MS2830A/MS2840A
Signal Analyzer
Operation Manual
Spectrum Analyzer Function
Operation

28th Edition

- **For safety and warning information, please read this manual before attempting to use the equipment.**
- **Additional safety and warning information is provided within the MS2830A Signal Analyzer Operation Manual (Mainframe Operation) or MS2840A Signal Analyzer Operation Manual (Mainframe Operation). Please also refer to this document before using the equipment.**
- **Keep this manual with the equipment.**

ANRITSU CORPORATION

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Safety Symbols

To prevent the risk of personal injury or loss related to equipment malfunction, Anritsu Corporation uses the following safety symbols to indicate safety-related information. Ensure that you clearly understand the meanings of the symbols BEFORE using the equipment. Some or all of the following symbols may be used on all Anritsu equipment. In addition, there may be other labels attached to products that are not shown in the diagrams in this manual.

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This indicates a warning or caution. The contents are indicated symbolically in or near the triangle.

This indicates a note. The contents are described in the box.

These indicate that the marked part should be recycled.

MS2830A/MS2840A
Signal Analyzer
Operation Manual Spectrum Analyzer Function Operation

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- Adding software

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- Network connections

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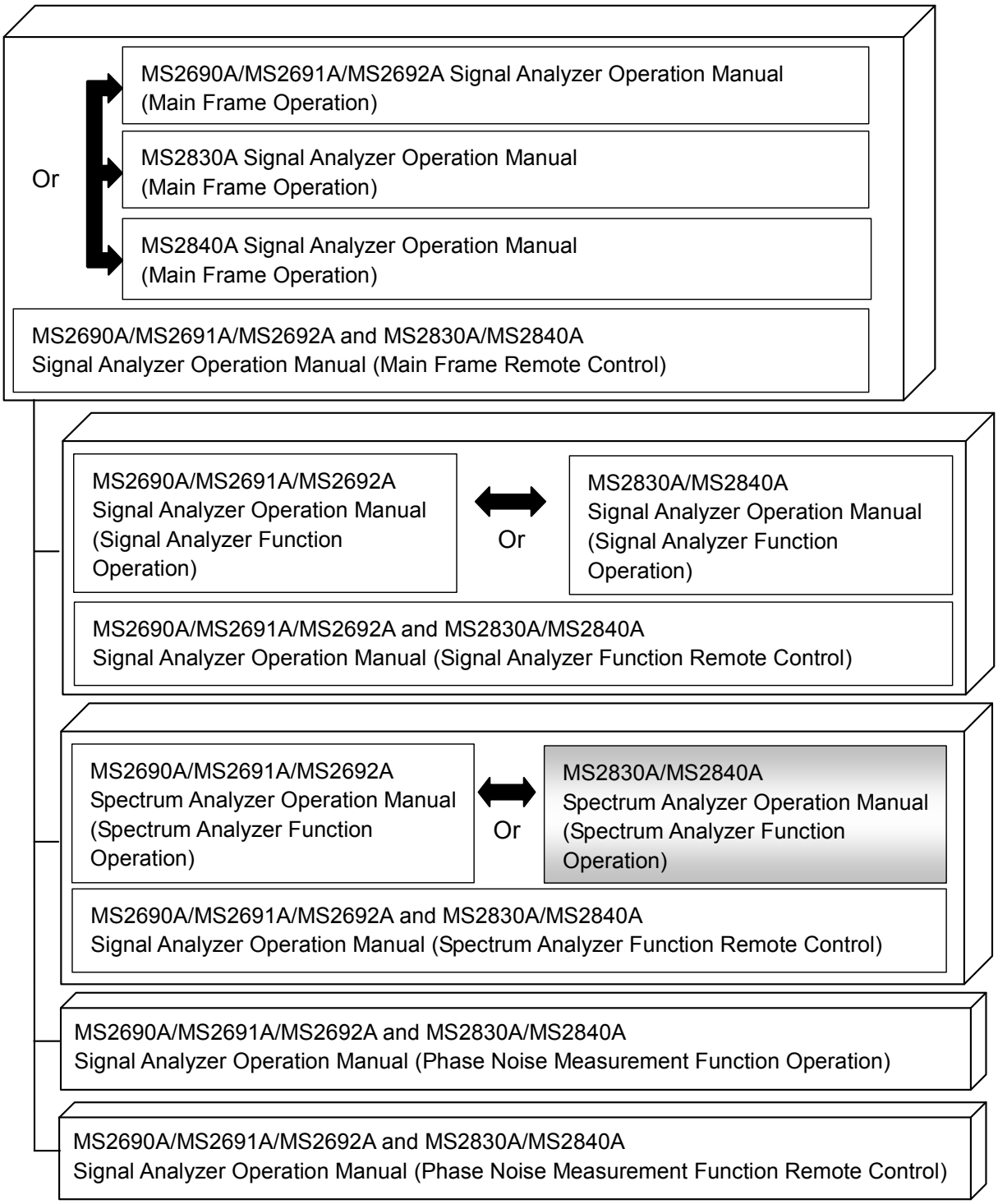
About This Manual

■ Operation manual configuration

The operation manual configuration of the MS2830A, MS2840A Signal Analyzer is shown below.



- Signal Analyzer Operation Manual (Mainframe Operation)
- Signal Analyzer Operation Manual (Mainframe Remote Control)

  Description of basic operations, maintenance procedures, common functions and common remote functions of the mainframe

- Signal Analyzer Operation Manual (Signal Analyzer Function Operation)
- Signal Analyzer Operation Manual (Signal Analyzer Function Remote Control)

  Description of basic operations, functions and remote functions of the signal analyzer

- Signal Analyzer Operation Manual (Spectrum Analyzer Function Operation) <This document>
- Signal Analyzer Operation Manual (Spectrum Analyzer Function Remote Control)

  Description of basic operations, functions and remote functions of the spectrum analyzer

- Signal Analyzer Operation Manual (Phase Noise Measurement Function)
- Signal Analyzer Operation Manual (Phase Noise Measurement Function Remote Control)

  Description of basic operations, common functions and common remote functions of the Phase Noise Measurement function

Convention Used in This Manual

Throughout this document, the use of MS2830A is assumed unless otherwise specified. If using MS2840A, change MS2830A to read MS2840A.

In this document,  indicates a panel key.

Table of Contents

Chapter 1 Overview

This chapter provides an overview of the Spectrum Analyzer function.

1.1 Overview of Spectrum Analyzer

The MS2830A/MS2840A Signal Analyzer is a spectrum analyzer to which options such as real-time signal analysis and vector modulation analysis can be added.

The spectrum analyzer function (hereinafter "this application") enables high-speed and high-accuracy signal processing of wide-ranging analyses at full-span, a characteristic of conventional sweep-type spectrum analyzers, using a digital IF block. It can be used in a variety of applications from research and development to manufacturing thanks to its characteristics.

The Spectrum Analyzer function has the following features.

- Frequency band
  MS2830A: 3.6 GHz/6 GHz/13.5 GHz/26.5 GHz/43 GHz
  MS2840A: 3.6 GHz/6 GHz/26.5 GHz/44.5 GHz
- High dynamic range
- High-speed measurement
- High-speed and high-accuracy signal analysis through digital IF
- Rich measurement functions

1.2 Features of Spectrum Analyzer

A spectrum analyzer is a measuring device for analyzing the frequency components of an input signal. The relative values of the various frequency components are displayed in graph form, with the horizontal axis representing the frequency and the vertical axis the signal level.

Figure 1.2-1 shows a schematic representation of a signal that includes a harmonic distortion component as observed with an oscilloscope and a spectrum analyzer. Observation of a signal that includes harmonic components with an oscilloscope yields a waveform with distortion, not a sine wave. This indicates that the signal includes harmonic components, but the magnitudes of the various harmonic components cannot be quantitatively measured. Using a spectrum analyzer enables the quantitative grasp of signal components by dividing the signal components into their various frequency components and graphing each frequency and amplitude. In the example shown in Figure 1.2-1, the signal can be seen to consist of a fundamental wave (f_0) and a second harmonic component ($2 \times f_0$), and their respective amplitudes can be read from this figure.

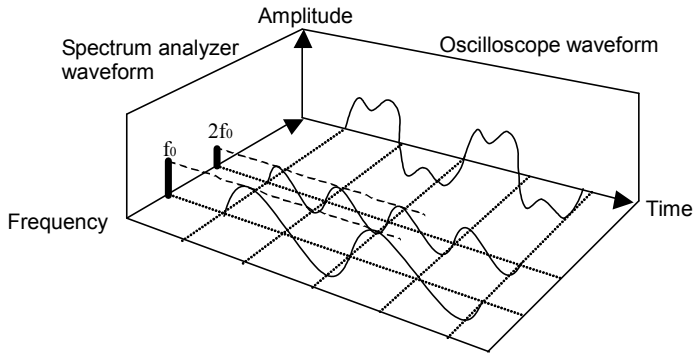


Figure 1.2-1 Comparison of spectrum analyzer and oscilloscope

Spectrum analyzer principle

A spectrum analyzer separates the input signal down to the level of single frequencies and obtains their respective amplitudes. Concretely, following extraction of single frequencies using a narrow-band filter(s), their amplitudes are obtained through wave detection. Separation into the various signal components through the use of a filter(s) can be done using two different methods. One method consists in using multiple filters to obtain the various frequency components in one time (real-time method), while the other method consists in obtaining the various frequency components by changing the center frequency of a single filter over time (sweep method).

The real-time method, which is characterized by a small time lag, is suitable for measurement in a narrow frequency range of several tens of MHz maximum. Compared to the real-time method, the sweep method requires a long time to draw a screen, but since it allows observation of a wide frequency range on the order of several GHz at one time, it is a powerful method for high-order harmonic level measurement and the detection of unknown frequency components.

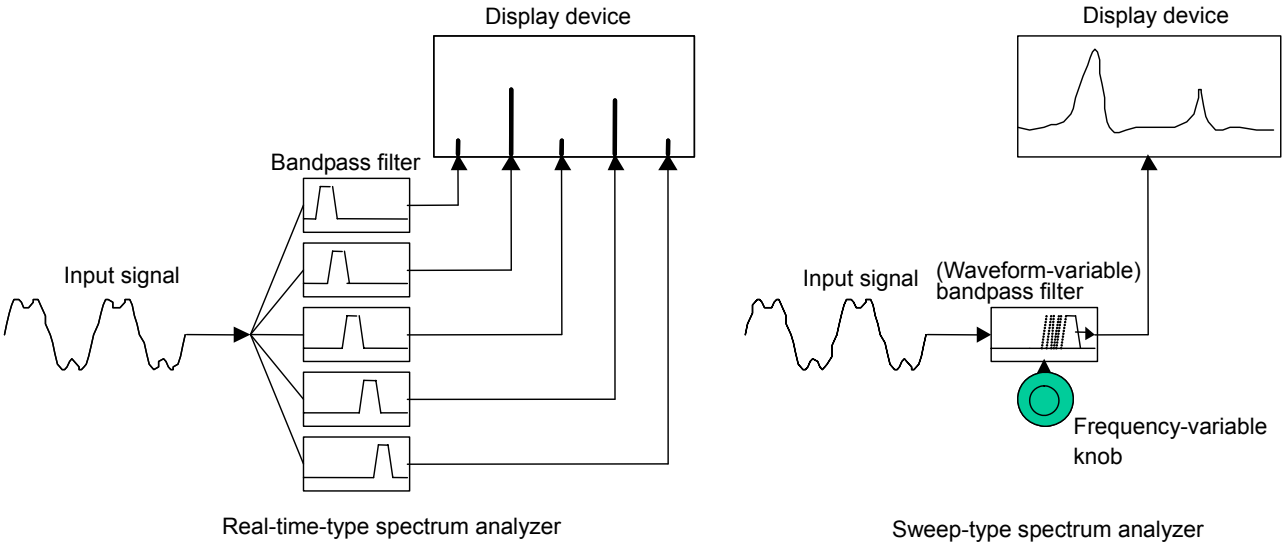


Figure 1.2-2 Spectrum analyzer principle

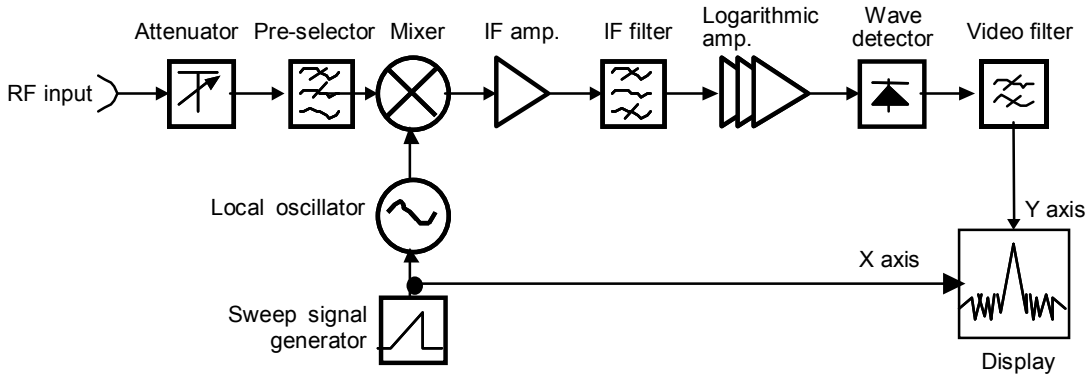


Figure 1.2-3 Configuration of typical sweep-type spectrum analyzer

Figure 1.2-3 shows the configuration of a typical sweep-type spectrum analyzer. The super heterodyne method, which is one of the methods that can be used for implementing a sweep-type spectrum analyzer, is described below. The input signal from external sources passes through an input circuit consisting of an attenuator and a preselector and is mixed with the signal from the local oscillator by a mixer. Here, the input signal is converted into a signal of a given frequency (IF). After being processed through an IF stage, this IF signal determines the vertical axis (level) on the display based on its level. The local oscillator, which operates on the principle that the oscillation voltage changes according to the input voltage, is controlled by the signal from the sweep signal generator (sawtooth wave generator) and determines the horizontal axis (frequency) of the display. As a result, a level that corresponds to the input frequency is displayed as a graph.

The input circuit consists of an attenuator for input signal level adjustment, and a pre-selector that prevents erroneous measurement by reducing responses other than that of the reception signal. The IF stage consists of an IF filter used to separate only the target frequency, an IF amplifier with a gain stabilized across a wide level range, and a logarithmic amplifier with excellent linearity. The MS2830A/MS2840A employs a digital IF method in its IF stage to obtain superior linearity and selectivity.

Chapter 2 Basic Operation

This chapter describes the basic operation of the Spectrum Analyzer function.

2.1 Display Description

This section describes the main screen and main function menus of the Spectrum Analyzer function.

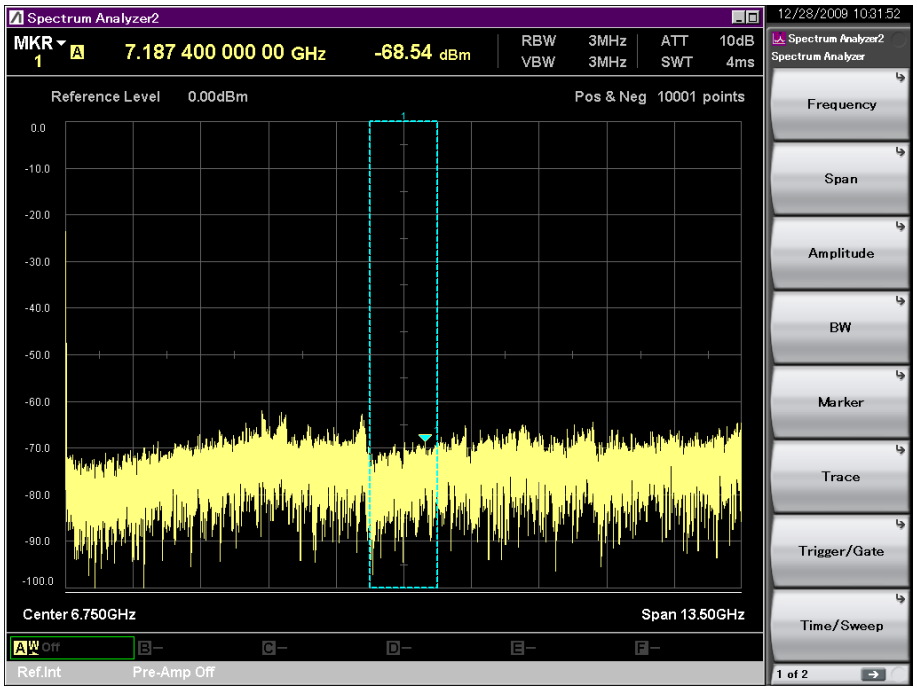


Figure 2.1-1 Main screen of Spectrum Analyzer function

Pressing the Menu when the Spectrum Analyzer function is selected in the Application Switch menu displays the main function menu.

The main function menu consists of two pages, which can be toggled by pressing →.

Table 2.1-1 Main function menu

Function Key	Menu Display	Function
Page1	Spectrum Analyzer	Press **Spectrum Analyzer** to display this page.
F1	Frequency	Executes frequency setting and preselector auto tuning. ☞ 2.3 "Setting Frequency"
F2	Span	Sets the frequency span and frequency band. ☞ 2.3 "Setting Frequency"
F3	Amplitude	Sets the level. ☞ 2.4 "Setting Level"
F4	BW	Sets the resolution bandwidth and video bandwidth. ☞ 2.5 "Setting RBW/VBW"
F5	Marker	Sets markers. ☞ 4.1 "Setting Marker"
F6	Trace	Sets the trace. ☞ 3.1 "Setting Storage Mode"
F7	Trigger/Gate	Sets the trigger and gate. ☞ Chapter 5 "Trigger Function and Gate Function"
F8	Time/Sweep	Sets the sweep time and trace points. ☞ 3.3 "Setting Time/Sweep"
Page2	Spectrum Analyzer	Press Spectrum Analyzer and then press to → display page 2.
F1	Peak Search	Sets the peak search execution and conditions. ☞ 4.2 "Setting Peak Search Function"
F2	Measure	Configures settings related to the Measure function. ☞ Chapter 6 "Measure Function"
F7	Save on Event	Sets the Save on Event function that saves Trace data upon occurrence of an event. ☞ 3.4 "Save on Event"
F8	Accessory	Sets the other functions. ☞ Chapter 7 "Other Functions"

2.2 Single/Continuous Sweep

There are two types of sweep, single and continuous.

(1) Single sweep

Press 

to execute sweep once. When the trigger function or gate function is on, only 1 sweep is executed when the sweep start conditions are met.

(2) Continuous sweep

Press 

to execute continuous sweep. When the trigger function or gate function is on, sweep is executed every time the sweep start conditions are met.

Figure 2.2-1 Single key and Continuous key

2.3 Setting Frequency

The Spectrum Analyzer function can set the following four measurement frequencies.

- Center frequency
- Frequency span
- Start frequency
- Stop frequency

Pressing F1 (Frequency) on page 1 of the main function menu, or pressing Frequency displays the Frequency function menu.

Pressing F2 (Span) on page 1 of the main function menu, or pressing Span displays the Span function menu.

Figure 2.3-1 Frequency key and Span key

Frequency function menu

Table 2.3-1 Frequency function menu

Function Key	Menu Display	Function
Page 1	Frequency	Press **Frequency** to display this menu.
F1	Center	Sets the center frequency. ☞ 2.3.1 "Setting center frequency"
F2	Start	Sets the start frequency. ☞ 2.3.3 "Setting start frequency"
F3	Stop	Sets the stop frequency. ☞ 2.3.4 "Setting stop frequency"
F4	Switching Speed	Sets the frequency switching speed. ☞ 2.3.8 "Switching Speed"
F5	Preselector Auto Tune	Auto-tunes preselector. This function is available with MS2830A-044/045, MS2840A-044/046. ☞ 7.8 "Preselector Tuning"
F6	Offset (On/Off)	Switches on/off the frequency offset function. ☞ 2.3.5 "Setting frequency offset"
F7	Offset Value	Sets the frequency offset value. ☞ 2.3.5 "Setting frequency offset"
F8	Step Size	Sets the step size of the center/start/stop frequencies. ☞ 2.3.9 "Setting step size"

Table 2.3-1 Frequency function menu (Cont'd)

Function Key	Menu Display	Function
Page 2	Frequency	Press **Frequency**, and then press ➔ to display this menu.
F1	External Mixer (On/Off)*1	Turn on when using external mixer. This function is available with MS2830A-044/045, MS2840A-044/046. ☞ Chapter 8 "External Mixer"
F2	External Mixer Band Select	Opens the Ext Band Select menu. This function is available with MS2830A-044/045, MS2840A-044/046. This function is available when External Mixer is turned On. ☞ 8.4 "Selecting External Mixer Band"
F3	External Mixer Bias	Sets the External Mixer Bias. This function is available with MS2830A-044/045, MS2840A-044/046. This function is not available when the high performance waveguide mixer is selected, or External Mixer is turned Off. ☞ 8.5 "Setting External Mixer Bias"
F4	Conversion Loss	Sets the External Mixer Loss. This function is available with MS2830A-044/045, MS2840A-044/046. This function is available when External Mixer is turned On. ☞ 8.6 "Setting Conversion Loss"
F5	Cable Loss	Sets the External Mixer Cable Loss. This function is available with MS2830A-044/045, MS2840A-044/046. This function is available when External Mixer is turned On. ☞ 8.10 "Setting External Mixer Cable Loss"
F6	Signal ID*2 (On/Off)	Turn this on when using Signal ID function. This function is available with MS2830A-044/045, MS2840A-044/046. ☞ 8.7 "Distinguishing measured signal - Signal ID"
F7	Signal ID Mode	Sets the Signal ID Mode. This function is available with MS2830A-044/045, MS2840A-044/046. ☞ 8.8 "Setting Signal ID Mode"
F8	Micro Wave Preselector Bypass (On/Off)	Enables/Disables the Micro Wave Preselector Bypass function. This function is available with MS2830A-007/067/167, MS2840A-067/167. ☞ *MS2830A Signal Analyzer Operation Manual (Mainframe Operation)*, "1.3.13 MS2830A-067/167", "1.3.14 MS2830A-007", *or MS2840A Signal Analyzer Operation Manual (Mainframe Operation)*, "1.3.15 MS2830A-067/167".

*1: For the Frequency function menu when F1 (External Mixer) on Page2 is set to On, refer to Table 8.2-1.

*2: Measure function cannot be set to On when Signal ID is On. Conversely, Signal ID cannot be set to On when Measure function is On.

Span function menu

Table 2.3-2 Span function menu

Function Key	Menu Display	Function
F1	Span	Sets the frequency span. ☞ 2.3.2 "Setting frequency span"
F2	Full Span	Sets full span. ☞ 2.3.2 "Setting frequency span"
F3	Zero Span	Sets zero span. ☞ 2.3.2 "Setting frequency span"
F6	Couple Time/Frequency Domain	Sets whether to couple the time domain parameters and frequency domain parameters. ☞ 2.3.7 "Setting whether to couple time domain parameters and frequency domain parameters"
F8	Frequency Band Mode	Sets the frequency band mode. ☞ 2.3.6 "Changing frequency band"

The display items related to the frequency parameters are described below.

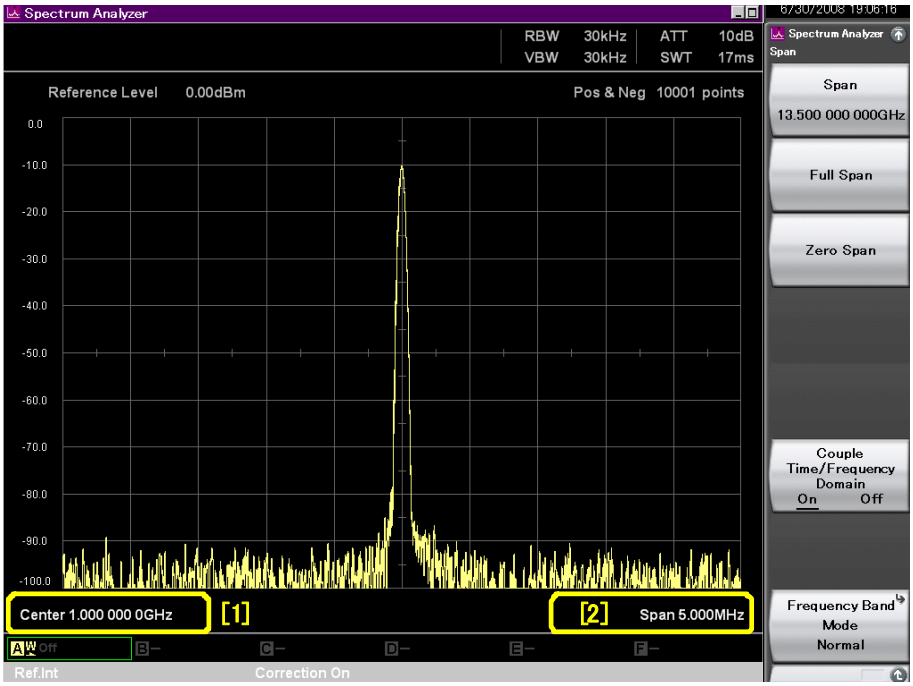


Figure 2.3-2 Display items related to frequency parameters

Table 2.3-3 Display items related to frequency parameters

No.	Display	Description
[1]	Center or Start	Displays the center frequency or start frequency.
[2]	Span or Stop	Displays the frequency span or stop frequency.

2.3.1 Setting center frequency

The center frequency of the frequency range to be swept can be set.

Setting range and resolution for center frequency

Setting range:

MS2830A-040:	–100 MHz to 3.7 GHz*
MS2830A-041:	–100 MHz to 6.1 GHz*
MS2830A-043:	–100 MHz to 13.6 GHz*
MS2830A-044:	–100 MHz to 26.6 GHz*
MS2830A-045:	–100 MHz to 43.1 GHz*
MS2840A-040:	–100 MHz to 3.7 GHz*
MS2840A-041:	–100 MHz to 6.1 GHz*
MS2840A-044:	–100 MHz to 27 GHz*
MS2840A-046:	–100 MHz to 45 GHz*

*: The setting range is limited by the other frequency settings.

Resolution: 1 Hz

Example: To set the center frequency to 1 MHz

<Procedure>

1. Press Frequency.
2. After pressing 1, press F2 (MHz) to set the center frequency.

2.3.2 Setting frequency span

The frequency span to be swept can be set. The mode when the frequency span is higher than 0 Hz is called the frequency domain mode (horizontal axis = frequency), and if it is 0 Hz, it is called the time domain mode (horizontal axis = time).

Setting range and resolution for frequency span

Setting range:

MS2830A-040:	300 Hz to 3.8 GHz*
MS2830A-041:	300 Hz to 6.2 GHz*
MS2830A-043:	300 Hz to 13.7 GHz*
MS2830A-044:	300 Hz to 26.7 GHz*
MS2830A-045:	300 Hz to 43.2 GHz*
MS2840A-040:	300 MHz to 3.8 GHz*
MS2840A-041:	300 MHz to 6.2 GHz*
MS2840A-044:	300 MHz to 27.1 GHz*
MS2840A-046:	300 MHz to 45.1 GHz*

0 Hz (time domain mode)

*: The setting range is limited by the other frequency settings.

Resolution: 2 Hz

Example: To set the frequency span to 100 MHz

<Procedure>

1. Press Span.
2. After pressing 1 0 0, press F2 (MHz) to set the frequency span.

Example: To set the frequency span to its maximum value

<Procedure>

1. Press Span.
2. Press F2 (Full Span).

Example: To set the frequency span to 0 Hz (time domain mode)

<Procedure 1>

1. Press Span.
2. Press F3 (Zero Span).

<Procedure 2>

1. Press Span.
2. After pressing 0, press F2 (MHz) and set the frequency span to 0 Hz.

2.3.3 Setting start frequency

The start frequency of the frequency range to be swept can be set.

Setting range and resolution for start frequency

Setting range:

MS2830A-040:	–100 MHz to 3.6999997 GHz*
MS2830A-041:	–100 MHz to 6.0999997 GHz*
MS2830A-043:	–100 MHz to 13.5999997 GHz*
MS2830A-044:	–100 MHz to 26.5999997 GHz*
MS2830A-045:	–100 MHz to 43.0999997 GHz*
MS2840A-040:	–100 MHz to 3.6999997 GHz*
MS2840A-041:	–100 MHz to 6.0999997 GHz*
MS2840A-044:	–100 MHz to 26.9999997 GHz*
MS2840A-046:	–100 MHz to 44.9999997 GHz*

*: The setting range is limited by the other frequency settings.

Resolution: 2 Hz

Example: To set the start frequency to 10 MHz

<Procedure>

1. Press Frequency.
2. Press F2 (Start).
3. After pressing 1 0, press F2 (MHz) to set the start frequency.

2.3.4 Setting stop frequency

The stop frequency of the frequency range to be swept can be set.

Setting range and resolution for stop frequency

Setting range:

MS2830A-040:	–99.9997 MHz to 3.7 GHz*
MS2830A-041:	–99.9997 MHz to 6.1 GHz*
MS2830A-043:	–99.9997 MHz to 13.6 GHz*
MS2830A-044:	–99.9997 MHz to 26.6 GHz*
MS2830A-045:	–99.9997 MHz to 43.1 GHz*
MS2840A-040:	–99.9997 MHz to 3.7 GHz*
MS2840A-041:	–99.9997 MHz to 6.1 GHz*
MS2840A-044:	–99.9997 MHz to 27 GHz*
MS2840A-046:	–99.9997 MHz to 45 GHz*

*: The setting range is limited by the other frequency settings.

Resolution: 2 Hz

Example: To set the stop frequency to 1 GHz

<Procedure>

1. Press Frequency.
2. Press F3 (Stop).
3. After pressing 1, press F1 (GHz) to set the stop frequency.

2.3.5 Setting frequency offset

The offset value for the frequency display can be set.

Setting range and resolution for frequency offset

Setting range: –100 GHz to 100 GHz

Resolution: 1 Hz

Example: To set the frequency offset to 1 GHz

<Procedure>

1. Press Frequency.
2. Press F7 (Offset Value).
3. After pressing 1, press F1 (GHz) and set the frequency offset.

2.3.6 Changing frequency band

Note:

This function can be set only when MS2830A-041/043/044/045 or MS2840A-041/044/046 is installed.

The passing lower limit frequency of the preselector can be changed from 6 GHz to 3 GHz by changing the frequency band mode.

Table 2.3.6-1 Frequency band

Frequency Band Mode	Preselector Passing Frequency
Norma	> 4.0 GHz
Spurious	≥ 3.5 GHz

Example: To set the passing lower limit frequency of the preselector to 3.5 GHz

<Procedure>

1. Press Span.
2. Press F8 (Frequency Band Mode).
3. Press F2 (Spurious) and set the passing lower limit frequency of the preselector to 3.5 GHz.

2.3.7 Setting Whether To Couple Time Domain Parameters and Frequency Domain Parameters

Sets whether to couple the time domain parameters and frequency domain parameters. If coupling is enabled, the RBW, VBW, detection mode, and trace point are coupled (shared) between the time domain and frequency domain. When coupling is enabled, the currently-selected domain parameter is used as a shared setting.

Table 2.3.7-1 Couple Time/Frequency Domain

Couple Time/Frequency Domain	Descriptions
On	The RBW, VBW, detection mode, and trace point are coupled (shared) between the time domain and frequency domain.
Off	The RBW, VBW, detection mode, and trace point for the time domain are separate from those for the frequency domain.

Example: To disable coupling.

<Procedure>

1. Press Span.
2. Press F6 (Couple Time/Frequency Domain) to set **Couple Time/Frequency Domain** to **Off**.

2.3.8 Switching Speed

Selects the normal or fast frequency switching speed.

Table 2.3.8-1 Switching Speed

Switching Speed	Descriptions
Fast Tuning	The operation is done so as to increase the frequency switching speed. (fast switching)
Normal	The operation is done so as to improve the phase noise characteristic rather than the frequency switching speed. (normal switching)

Example: To specify the fast Switching Speed.

<Procedure>

1. Press Frequency.
2. Press F4 (Switching Speed) to change to Switching Speed menu.
3. Press F1 (Fast Tuning) to specify fast switching.

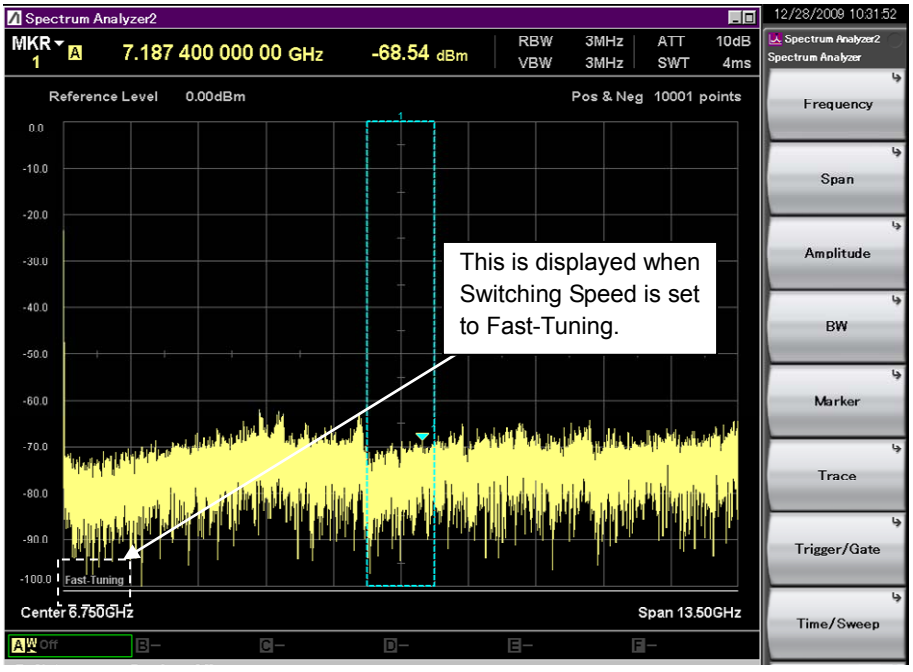


Figure 2.3.8-1 Fast-Tuning display

2.3.9 Setting step size

The step size of the center, start and stop frequency can be set.

Setting range and resolution for step size

Setting range:	MS2830A-040:	1 Hz to 3.6 GHz
	MS2830A-041:	1 Hz to 6.0 GHz
	MS2830A-043:	1 Hz to 13.5 GHz
	MS2830A-044:	1 Hz to 26.5 GHz
	MS2830A-045:	1 Hz to 43 GHz
	MS2840A-040:	1 Hz to 3.6 GHz*
	MS2840A-041:	1 Hz to 6.0 GHz*
	MS2840A-044:	1 Hz to 26.5 GHz*
	MS2840A-046:	1 Hz to 44.5 GHz*
Resolution:	1 Hz	

Example: To set step size to 1 MHz

<Procedure>

1. Press Frequency.
2. Press F8 (Step Size).
3. After pressing 1, press F2 (MHz) to set step size.

2.3.10 Low Phase Noise

This function is available when MS2830A-062/066 or MS2840A-066/166 Low Phase Noise Performance function is installed.

Low Phase Noise Performance Option

Summary:

The SSB phase noise is improved for RF input signals by provision of an internal dedicated frequency converter.

Precautions when Low Phase Noise option enabled (On).

The operation principle of the frequency converter is generation of a spurious response at a specific frequency. As a result, sometimes it is better not to use, such as when measuring spurious.

When the DUT signal frequency is known, when the MS2830A or MS2840A Rx frequency is set to 35 MHz beyond that frequency, measurement can be made as if the Low Phase Noise Function is Off (disabled) because the spurious response cannot be observed.

However, even if the DUT signal frequency is unknown, measurement can be made after setting the Low Phase Noise Function to Off (disabled) and verifying the presence of a response at about the same level (in other words, confirming that the observed signal has the correct response).

The spurious responses are as follows:

(1) Image Response
This response is generated when a signal with frequency fin is input to the MS2830A or MS2840A RF input connector and the MS2830A, MS2840A Rx frequency is set to fin–150 MHz, and 330 MHz or more (with MS2830A-062) or 110 MHz or more (with MS2830A-066, MS2840A-066/166). The generated level is about –20 dBc.

(2) Multiple Response
This response is generated when a signal with frequency fin is input to the MS2830A or MS2840A RF input connector and the MS2830A or MS2840A Rx frequency is set to (fin ±75 MHz)/N–75 MHz (N = 1,2,3…), and 330 MHz or more (with MS2830A-062) or 110 MHz or more (with MS2830A-066, MS2840A-066/166). The generated level is about –10 dBc.

Low Phase Noise is displayed when the Low Phase Noise Performance function is enabled at the conditions in Table 2.3.10-1.

For the setting method for System Settings, Low Phase Noise refer to section 3.4.4 in the *MS2830A Signal Analyzer Operation Manual Mainframe Operation manual* or the *MS2840A Signal Analyzer Operation Manual Mainframe Operation manual*; for the setting method for Low Phase Noise for Spurious Emission, refer to section 6.7 Spurious Emission Measurement.

Table 2.3.10-1 Low Phase Noise Performance Enabled Conditions

Measurement	System Settings Low Phase Noise	Low Phase Noise for Spurious Emission	Sweep Type	SPAN	Low Phase Noise
Excluding Spurious Emission On status	On	—	FFT	≤1 MHz	Enabled
				>1 MHz	Disabled
			Swept	≤1 MHz (Includes 0 span)	Enabled
				>1 MHz	Disabled
	Off	—	—	—	Disabled
At Spurious Emission On status	—	On	FFT	≤1 MHz	Enabled
				>1 MHz	Disabled
			Swept	≤1 MHz (Includes 0 span)	Enabled
				>1 MHz	Disabled
	—	Off	—	—	Disabled

At Spectrum Emission Mask measurement, "Low Phase Noise" is displayed when Low Phase Noise Performance is enabled at the measurement point.

At Spurious Emission measurement, "Low Phase Noise" is displayed in each segment when Low Phase Noise Performance is enabled.

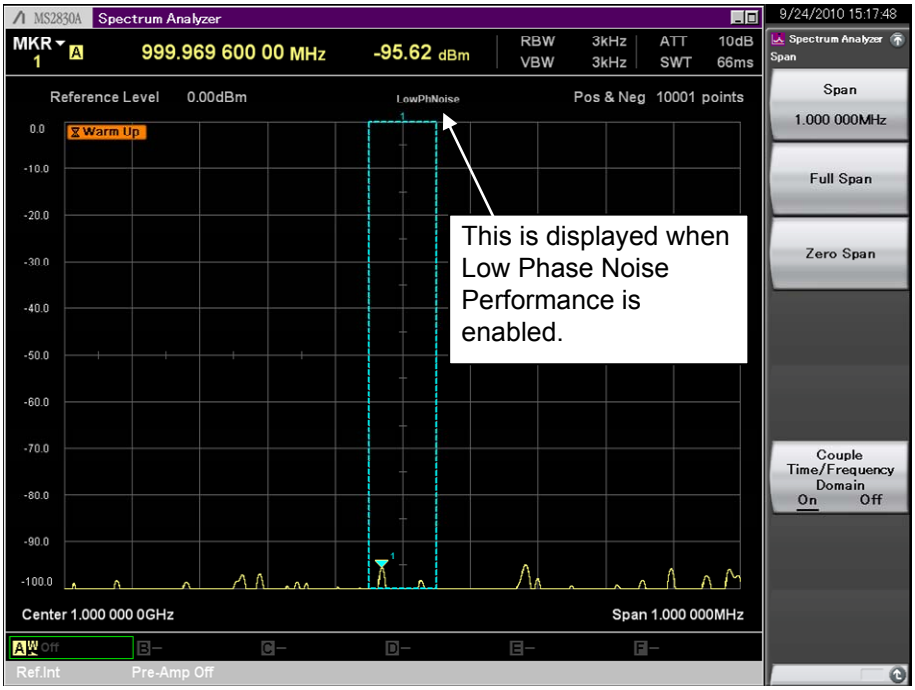


Figure 2.3.10-1 Low Phase Noise Display

2.3.11 Displaying the Spurious Mode icon

When “Spurious” is selected for the Frequency Band Mode, the Spurious Mode icon is displayed in the following condition:

Condition of displaying the icon

* For MS2830A-040, MS2840A-040

  Not displayed

* For MS2830A-041/043/044/045
  MS2840A-041/044/046

  The icon is displayed when the displayed range exceeds 3.5 GHz.

Displaying position is the same position as [Low Phase Noise] icon.
(Displaying priority: [Low Phase Noise] < [Spurious Mode])

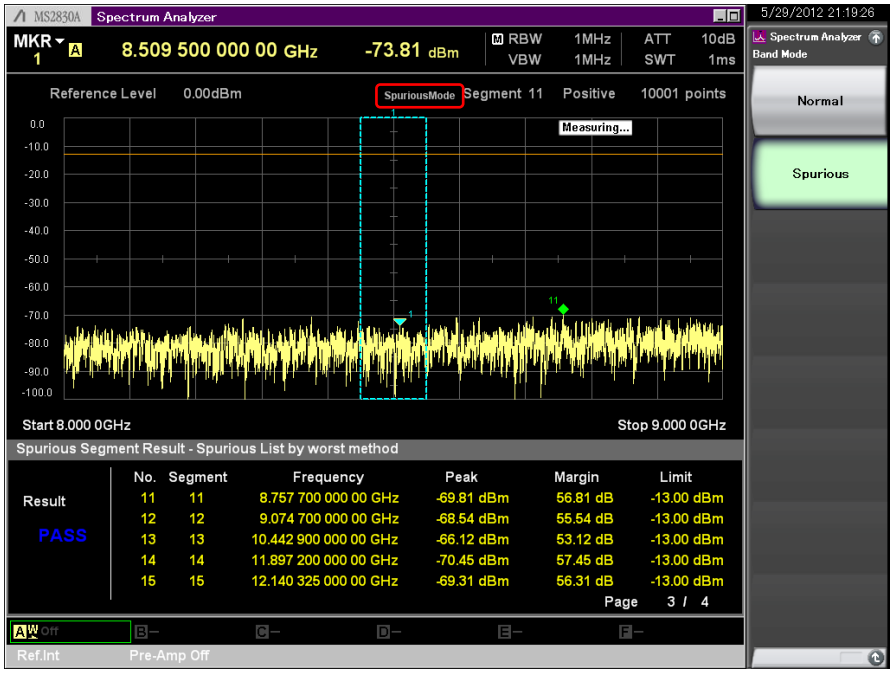


Figure 2.3.11-1 Spurious Mode icon

2.4 Setting Level

Pressing F3 (Amplitude) on the main function menu, or pressing Amplitude displays the Amplitude function menu.

Figure 2.4-1 Amplitude key

Table 2.4-1 Amplitude function menu

For the Amplitude function menu when F1 (External Mixer) on Page2 of the Frequency function menu is set to On, refer to Table 8.2-2.

Function Key	Menu Display	Function
Page 1	Amplitude	Press **Amplitude** to display this menu.
F1	Reference Level	Sets the reference level. ☞ 2.4.1 "Setting reference level"
F2	Attenuator (Auto/Manual)	Selects automatic setting or manual setting of the input attenuator. ☞ 2.4.2 "Setting input attenuator"
F3	Attenuator	Sets the input attenuator. ☞ 2.4.2 "Setting input attenuator"
F4	Pre-amp	Sets Pre-amp to On/Off. This is displayed only when MS2830A-008/108/068/168, MS2840A-008/108/068/168/069/169 Preamplifier is installed. ☞ 2.4.6 "Pre-amp"
F5	Log Scale Unit	Sets the level display unit to be used during log scale. ☞ 2.4.4 "Setting reference level unit"
F6	Scale	Switches log level display and linear level display. ☞ 2.4.3 "Setting scale"
F7	Offset (On/Off)	Switches On/Off the reference level offset function. ☞ 2.4.5 "Setting reference level offset"
F8	Offset Value	Sets the reference level offset value. ☞ 2.4.5 "Setting reference level offset"
Page 2	Amplitude	Press Amplitude, and then press → to display this menu.
F1	Impedance	Sets 50 Ω/75Ω of impedance. ☞ 2.4.7 "Setting impedance"
F8	Micro Wave Preselector Bypass (On/Off)	Enables/Disables the Micro Wave Preselector Bypass function. This function is available with MS2830A-007/067/167 or MS2840A-067/167. This function is not available when External Mixer is turned On. ☞ *MS2830A Signal Analyzer Operation Manual (Mainframe Operation)*, "1.3.13 MS2830A-067/167", "1.3.14 MS2830A-007", or *MS2840A Signal Analyzer Operation Manual (Mainframe Operation)*, "1.3.15 MS2840A-067/167".

The display items related to the level parameters are described below.

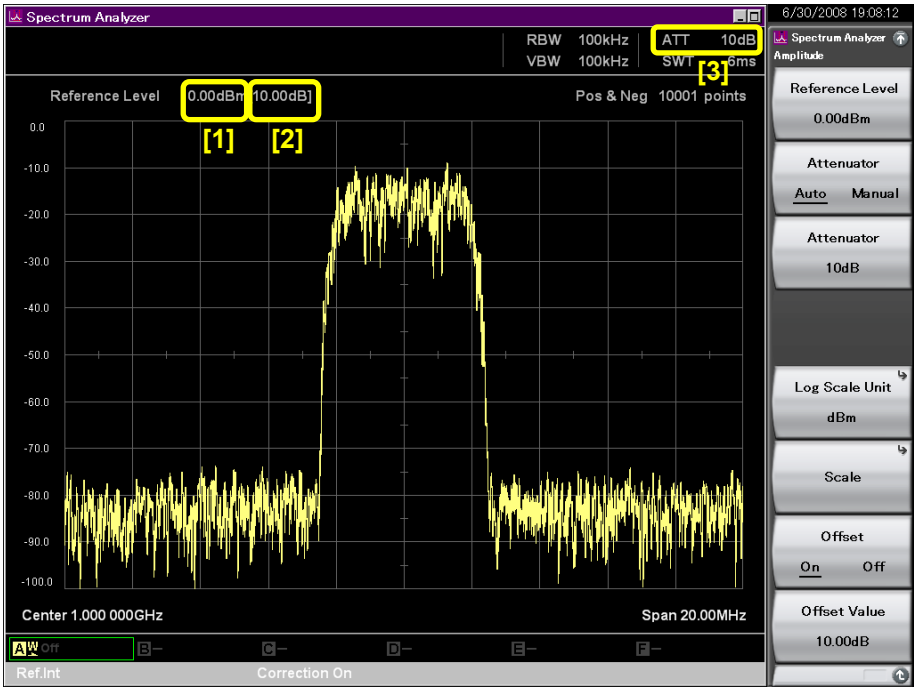


Figure 2.4-2 Display items related to level parameters

Table 2.4-2 Display items related to level parameters

No.	Display	Description
[1]	Reference level	Displays the reference level.
[2]	Reference level offset	Displays the reference level addition offset value.
[3]	Input attenuator	Displays the input attenuator value.

The reference level (upper end of amplitude scale) range is described below.

Setting range and resolution for reference level

Setting range: Refer to Tables 2.4-3 and 2.4-4.

Resolution: 0.01 dB (dB unit system)
Effective number of digits: 3 (W unit)
Effective number of digits: 3 (V unit)

Table 2.4-3 Reference level setting range (When Pre-amp is set to Off).

Scale Mode	Unit	Reference Level Range
Log scale	dBm*1	–120 to +50 dBm
	dBμV*2	–13.01 to +156.99 dBμV (Impedance = 50 Ω) –11.25 to +158.75 dBμV (Impedance = 75 Ω)
	dBmV*3	–73.01 to +96.99 dBmV (Impedance = 50 Ω) –71.25 to +98.75 dBmV (Impedance = 75 Ω)
	V	0.224 μV to 70.7 V (Impedance = 50 Ω) 0.274 μV to +86.6 V (Impedance = 75 Ω)
	W	1 fW to 100 W
	dBμV (emf)*4	–6.99 to +163.01 dBμV (emf) (Impedance = 50 Ω) –5.23 to +164.77 dBμV (emf) (Impedance = 75 Ω)
	dBμV/m*5	–13.01 to +156.99 dBμV/m (Impedance = 50 Ω) –11.25 to +158.75 dBμV/m (Impedance = 75 Ω)
Linear scale (in dBm)	V	22.4 μV to 70.7 V (Impedance = 50 Ω) 27.4 μV to 86.6 V (Impedance = 50 Ω) (–80 to +50 dBm)

Table 2.4-4 Reference level setting range (When Pre-amp is set to On)

Scale Mode	Unit	Reference Level Range
Log scale	dBm*1	–120 to +30 dBm
	dBμV*2	–13.01 to +136.99 dBμV (Impedance = 50 Ω) –11.25 to +138.75 dBμV (Impedance = 75 Ω)
	dBmV*3	–73.01 to +76.99 dBmV (Impedance = 50 Ω) –71.25 to +78.75 dBmV (Impedance = 75 Ω)
	V	0.224 μV to 7.07 V (Impedance = 50 Ω) 0.274 μV to 8.66 V (Impedance = 75 Ω)
	W	1 fW to 1 W
	dBμV (emf)*4	–6.99 to +143.01 dBμV (emf) (Impedance = 50 Ω) –5.23 to +144.77 dBμV (emf) (Impedance = 75 Ω)
	dBμV/m*5	–13.01 to +136.99 dBμV/m (Impedance = 50 Ω) –11.25 to +138.75 dBμV/m (Impedance = 75 Ω)
Linear scale (in dBm)	V	2.24 μV to 7.07 V (Impedance = 50 Ω) 2.74 μV to 8.66 V (Impedance = 50 Ω) (–100 to +30 dBm)

*1: Unit system where 1 mW is regarded as 0 dBm

*2: Unit system where 1 μV is regarded as 0 dBμV. Indicated by termination voltage with 50 Ω terminator.
When impedance is set to 75 Ω, it is displayed as the terminal voltage of 75 Ω.

*3: Unit system where 1 mV is regarded as 0 dBmV. Indicated by termination voltage with 50 Ω terminator.
When impedance is set to 75 Ω, it is displayed as the terminal voltage of 75 Ω.

*4: Unit system in dBμV, indicated by open voltage. The value is "dBμV + 6.02 dB".

*5: Unit system indicating electric field intensity. The displayed value depends on the antenna factor.

2.4.1 Setting reference level

The reference level (upper end of amplitude scale) can be set.

Example: To set the reference level to –10 dBm

<Procedure>

1. Press Amplitude.
2. Press F1 (Reference Level).
3. After pressing –/+ 1 0, press F1 (dBm) to set the reference level.

2.4.2 Setting input attenuator

(1) Auto mode

The input attenuator is automatically set according to the set reference level. When a signal of the same level as the reference level is input, the input level to the internal mixer is set so as become –10 dBm or lower.

Tables 2.4.2-1 and 2.4.2-2 show the settings in the Auto mode.

Table 2.4.2-1 Input attenuators set in Auto mode (When Pre-amp is set to Off)

N = Reference Level (dBm)	Attenuator Auto (dB)	
	Resolution 2 dB	Resolution 10 dB
$-120 \leq N \leq 0$	10	10
$0 < N \leq 2$	12	20
$2 < N \leq 4$	14	20
$4 < N \leq 6$	16	20
$6 < N \leq 8$	18	20
$8 < N \leq 10$	20	20
$10 < N \leq 12$	22	30
$12 < N \leq 14$	24	30
$14 < N \leq 16$	26	30
$16 < N \leq 18$	28	30
$18 < N \leq 20$	30	30
$20 < N \leq 22$	32	40
$22 < N \leq 24$	34	40
$24 < N \leq 26$	36	40
$26 < N \leq 28$	38	40
$28 < N \leq 30$	40	40
$30 < N \leq 32$	42	50
$32 < N \leq 34$	44	50
$34 < N \leq 36$	46	50
$36 < N \leq 38$	48	50
$38 < N \leq 40$	50	50
$40 < N \leq 42$	52	60
$42 < N \leq 44$	54	60
$44 < N \leq 46$	56	60
$46 < N \leq 48$	58	60
$48 < N \leq 50$	60	60

Refer to Table 2.4.2-3 for resolution of input attenuator.

Table 2.4.2-2 Input attenuators set in Auto mode (When Pre-amp is set to On)

N **= Reference Level (dBm)**	**Attenuator Auto (dB)**	
	Resolution 2 dB	**Resolution 10 dB**
$-120<N\leq-20$	10	10
$-20<N\leq-18$	12	20
$-18<N\leq-16$	14	20
$-16<N\leq-14$	16	20
$-14<N\leq-12$	18	20
$-12<N\leq-10$	20	20
$-10<N\leq-8$	22	30
$-8<N\leq-6$	24	30
$-6<N\leq-4$	26	30
$-4<N\leq-2$	28	30
$-2<N\leq0$	30	30
$0<N\leq2$	32	40
$2<N\leq4$	34	40
$4<N\leq6$	36	40
$6<N\leq8$	38	40
$8<N\leq10$	40	40
$10<N\leq12$	42	50
$12<N\leq14$	44	50
$14<N\leq16$	46	50
$16<N\leq18$	48	50
$18<N\leq20$	50	50
$20<N\leq22$	52	60
$22<N\leq24$	54	60
$24<N\leq26$	56	60
$26<N\leq28$	58	60
$28<N\leq30$	60	60

Refer to Table 2.4.2-3 for resolution of input attenuator.

(2) Manual mode

To measure extremely low level signals such as low level harmonic spurious signals, set the input attenuator manually.

The setting range of the input attenuator in Manual setting is as follows.

The following tables show the setting range and resolution of input attenuator.

Table 2.4.2-3 Resolution of Input Attenuator

System	ATT Mode	SPAN range	ATT value	Resolution
Excluding MS2830A-045, MS2840A-046	—	—	—	2 dB
MS2830A-045, MS2840A-046	Electric Combined	Normal Mode, Stop frequency ≤ 6 GHz Spurious Mode, Stop frequency ≤ 4 GHz, and Start frequency < 4 GHz	ATT ≤ 10 dB	10 dB
			10 dB < ATT ≤ 40 dB	2 dB
			40 dB < ATT ≤ 60 dB	10 dB
		Normal Mode, Stop frequency > 6 GHz Spurious Mode, Stop frequency > 4 GHz or Start frequency ≥ 4 GHz	—	10 dB
	Mechanical Only	—	—	10 dB

Table 2.4.2-4 Input attenuator setting range (When Pre-amp is set to Off)

Attenuator Manual	
Lower limit	**Upper limit**
Logic* ($\alpha = 0, \beta = 1, \gamma = 2$) The minimum value is 0 dB.	60 dB

Table 2.4.2-5 Input attenuator setting range (When Pre-amp is set to On)

Attenuator Manual	
Lower limit	**Upper limit**
Logic* ($\alpha = 20, \beta = 21, \gamma = 22$) The minimum value is 0 dB	60 dB

*: The following rules apply:

<1> If the reference level is 0 or if it is divisible by 2.
Attenuator (dB) = RL*1 + α
<2> Not <1>, and INT (RL)*2 is an odd number.
Attenuator (dB) = INT (RL)*2 + β
<3> Not <1>, and INT (RL) is an even number.
Attenuator (dB) = INT (RL)*2 + γ

*1: Reference level (dBm)

*2: Maximum integer not exceeding reference level.

For measurement of second and third harmonic spurious, the mixer input level must be lowered to eliminate the effect of internal distortion. Internal distortion is below –65 dBc (at 1 GHz) when the mixer input level is –30 dBm, so to measure harmonic spurious up to –65 dBc, the mixer input level must be below –30 dBm. In this case, if the attenuator setting is Auto, the attenuator value is too small. Set the attenuator value manually.

Example: To set the input attenuator to 20 dB

<Procedure>

1. Press Amplitude.
2. Press F3 (Attenuator).
3. After pressing 2 0, press F1 (dB) to set the input attenuator.

2.4.3 Setting scale

Pressing F6 (Scale) on the Amplitude function menu displays the Scale function menu.

Table 2.4.3-1 Scale function menu

Function Key	Menu Display	Function
F1	Scale (Log/Lin)	Selects the scale mode (Log/Lin). This switches F2 and F3 display.
F2	Log Scale Division	Sets the scale range (Log scale range). This is displayed when Log is selected for F1 Scale.
	Lin Scale Division	Sets the scale range (Lin scale range). This is displayed when Lin is selected for F1 Scale.
F3	Log Scale Line (10/12)	Selects the number of scale lines during log scale. This is displayed only when Log is selected for F1 Scale.

(1) Setting the Log scale
The log scale can be selected from the following:

0.1, 0.2, 0.5, 1.0, 2.0, 5.0, 10.0, 20.0 dB/Div

Example: To set Log Scale Division to 20 dB/Div and number of scale lines to 12

<Procedure>

1. Press Amplitude.
2. Press F6 (Scale).
3. Press F1 (Scale) and select Log.
4. Press F2 (Log Scale Division).
5. After pressing 2 0, press F1 (dB/Div) to set the Log Scale Division.
6. Press F3 (Log Scale Line) and set the number of scale lines by selecting 12.

(2) Setting the Lin scale
The Lin scale can be selected from the following:

1, 2, 5, 10%/Div

Example: To set Lin Scale Division to 5%/Div

<Procedure>

1. Press Amplitude.
2. Press F6 (Scale).
3. Press F1 (Scale) and select Lin.
4. Press F2 (Lin Scale Division).
5. After pressing 5, press F1 (%/Div) to set Lin Scale Division.

2.4.4 Setting reference level unit

The level display unit for the Log scale mode can be set. In the case of Lin scale, the level display unit is fixed to V.

Reference level display unit

dBm, dBμV, dBmV, V, W, dBμV (emf), dBμV/m

Example: To set the reference level to 10 dBmV

<Procedure>

1. Press Amplitude.
2. Press F6 (Scale).
3. Press F1 (Scale) and select Log.
4. Press ↩ to return to the previous menu.
5. Press F5 (Log Scale Unit) and then press F3 (dBmV).
6. After pressing 1 0, press F1 (dBmV) to set the reference level unit.

If V (W) is selected and a measurement result is more than 99.999 GV (GW), 99.999 GV (GW) is displayed.

2.4.5 Setting reference level offset

The waveform trace can be displayed with an arbitrary offset value added.

Setting range and resolution for reference level offset

Setting range: –100 to 100 dB

Resolution: 0.01 dB

Figure 2.4.5-1 Adding an offset value

Example: To set the reference offset value to 10 dB

<Procedure>

1. Press Amplitude.
2. Press F7 (Offset) and select On.
3. Press F8 (Offset Value).
4. After pressing 1 0, press F1 (dB) to set the reference level offset value.

2.4.6 Pre-amp

Note:

This function can be set only when MS2830A-008/108/068/168, MS2840A-008/108/068/168/069/169 Pre-amp is installed.

The level sensitivity can be increased by setting Pre-amp to On.

Example: To set Pre-amp to On

<Procedure>

1. Press Amplitude.
2. Press F4 (Pre-Amp) to set to On.

2.4.7 Setting impedance

Sets 50 Ω/75Ω of input impedance. The default value is 50 Ω.

This setting is effective when the vertical axis is voltage units (dBμV, dBmV, V, dBμV (emf), dBμV/m); it is not effective when the units are power (dBm, W). The actual input impedance of the equipment is 50 Ω. If the impedance is set to 75 Ω, numeric conversion is performed for the 75-Ω termination and it is reflected in the voltage-units display.

When using a 75/50 Ω converter, set the impedance to 75 Ω. The converter loss can be corrected using the Correction function and reference level offset setting.

Example: To set impedance to 75 Ω

<Procedure>

1. Press Amplitude.
2. Press → . After page 2 of the Amplitude function menu is displayed, press F1 (Impedance) to set to 75 Ω.

2.5 Setting RBW/VBW

The resolution bandwidth (RBW) and video bandwidth (VBW) can be selected either automatically or arbitrarily.

Pressing F4 (BW) on the main function menu, or pressing BW displays the BW function menu.

Figure 2.5-1 BW key

Table 2.5-1 BW function menu

Function Key	Menu Display	Function
F1	RBW (Auto/Manual)	Selects automatic or manual setting of the resolution bandwidth (RBW) for the Mode set with F8 (RBW Mode). When RBW Mode is Normal: ☞ 2.5.1 "Setting resolution bandwidth (RBW)" Only with MS2830A-016/116, MS2840A-016/116, When RBW Mode is CISPR: ☞ 2.5.4 "Setting CISPR resolution bandwidth (RBW)"
F2	RBW Value	Selects the resolution bandwidth (RBW) for the Mode set with F8 (RBW Mode). When RBW Mode is Normal: ☞ 2.5.1 "Setting resolution bandwidth (RBW)" Only with MS2830A-016/116, MS2840A-016/116, When RBW Mode is CISPR: ☞ 2.5.4 "Setting CISPR resolution bandwidth (RBW)"
F3	VBW (Auto/Manual)	Selects automatic or manual setting of the video bandwidth (VBW). ☞ 2.5.2 "Setting video bandwidth (VBW)"
F4	VBW Value	Sets the video bandwidth (VBW). ☞ 2.5.2 "Setting video bandwidth (VBW)"
F5	VBW Mode (Video/Power)	Selects display level smoothing through the video bandwidth (VBW). ☞ 2.5.3 "Setting Video VBW/Power VBW"
F8	RBW Mode (Normal/CISPR)	Displayed only when MS2830A-016/116, MS2840A-016/116 is installed. Selects the resolution bandwidth (RBW) Mode set with F1 (RBW) and F2 (RBW Value). Normal: Sets Normal RBW Mode*1. CISPR: Sets CISPR RBW Mode*2.

*1: Conventional RBW: 1-3 step and others

*2: EMI measurement RBW:
200 Hz (6 dB), 9 kHz (6 dB), 120 kHz (6 dB), 1 MHz (Imp)

2.5.1 Setting resolution bandwidth (RBW)

This function is available if RBW Mode is set to **Normal** when MS2830A-016/116, MS2840A-016/116 is installed.

(1) Auto
The resolution bandwidth is automatically set according to the frequency span setting.

(2) Manual
Select an arbitrary resolution bandwidth (RBW). When monitoring two adjacent signals, the frequency resolution can be increased by reducing the resolution bandwidth (RBW). This has also the effect of reducing the noise level.

The resolution bandwidth (RBW) value can be selected from among the followings:

1 Hz, 3 Hz, 10 Hz (The above are only for Freq Domain.), 30 Hz, 100 Hz, 300 Hz, 500 Hz, 1 kHz, 3 kHz, 10 kHz, 30 kHz, 50 kHz, 100 kHz, 300 kHz, 1 MHz, 2 MHz, 3 MHz, 5 MHz, 10 MHz, (The above are for either no Option or Option-006/106.)
20 MHz, 31.25 MHz (for MS2830A-005/105/007/009/109 or MS2840A-005/105/009/109, but 31.25 MHz can only be specified for a frequency span of 0)

Note:

For RBW 31.25 MHz, it is not a Gauss filter but a flat-top characteristic filter.

When Couple Time/Frequency Domain is set to Off, each parameter is specified in accordance with the already-specified frequency axis or time axis measurement.

Resolution bandwidth (RBW) setting

Example: To set the resolution bandwidth (RBW) to 10 kHz.

<Procedure>

1. Press BW.
2. Press F8 (RBW Mode) to switch to Normal.
3. Press F1 (RBW Auto/Manual) to switch to Manual.
4. Press F2 (RBW Value).
5. After pressing 1 0, press F3 (kHz) and set the resolution bandwidth (RBW).

2.5.2 Setting video bandwidth (VBW)

(1) Auto

The video bandwidth is set to the same as the resolution bandwidth (RBW) or the nearest value. It is set to off when the detection mode (Detection) is "RMS," "Quasi-Peak", "CISPR-AVG", or "RMS-AVG".

(2) Manual

By setting the video bandwidth to a value that is smaller than the resolution bandwidth (RBW), noise averaging is made more efficient. It is set to off when the detection mode (Detection) is "RMS," "Quasi-Peak", "CISPR-AVG", or "RMS-AVG".

The video bandwidth (VBW) value can be selected from the following:

1 Hz, 3 Hz, 10 Hz, 30 Hz, 100 Hz, 300 Hz, 1 kHz, 3 kHz, 5 kHz, 10 kHz, 30 kHz, 100 kHz, 300 kHz, 1 MHz, 3 MHz, 10 MHz, Off

When Couple Time/Frequency Domain is set to Off, each parameter is specified in accordance with the already-specified frequency axis or time axis measurement.

Video bandwidth (VBW) setting

Example: To set the video bandwidth (VBW) to 10 kHz

<Procedure>

1. Press BW.
2. Press F3 (VBW Auto/Manual) to switch to Manual.
3. Press F4 (VBW Value).
4. After pressing 1 0, press F3 (kHz) and set VBW.

2.5.3 Setting Video VBW/Power VBW

The Spectrum Analyzer function allows selection of either Video VBW or Power VBW as the video filter for the better and smooth screen display.

Two VBM Modes

Video:

Performs smoothing and averaging with a video filter after logarithmic compression (logarithmic mean).

Power:

Performs smoothing and averaging with a video filter before logarithmic compression (antilog mean). Video VBW indicates similar measurement values as those obtained with a conventional spectrum analyzer, but in the case of signals that fluctuate importantly over time, such as burst waves, a large error margin results. When measuring such signals, select **Power** for the VBW mode.

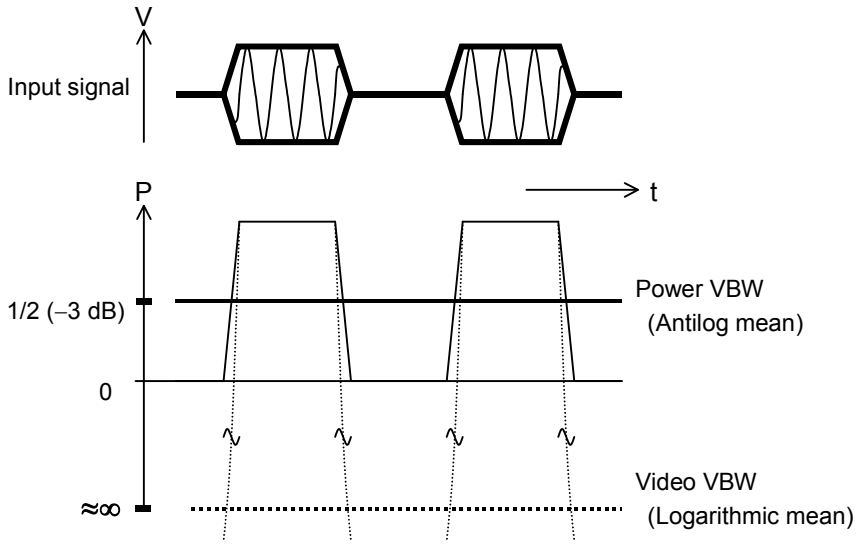


Figure 2.5.3-1 Power VBW and Video VBW

Example: To set VBW Mode to Power

<Procedure>

1. Press BW.
2. Press F5 (VBW Mode) and select **Power**.

2.5.4 Setting CISPR resolution bandwidth (RBW)

This function is available if RBW Mode is set to **CISPR** when MS2830A-016/116, MS2840A-016/116 is installed. Refer to "2.5.1 Setting CISPR resolution bandwidth (RBW)" when the mode is set to **Normal**.

The following restrictions apply when RBW Mode is set to **CISPR**.

- The Measure function cannot be set to On. Also, when the Measure function is On, the mode cannot be set to **CISPR**.
- The Gate View function cannot be set to On. Also, when the Gate View function is On, the mode cannot be set to **CISPR**.

(1) Auto
The resolution bandwidth is automatically set according to the center frequency setting.

(2) Manual
Select an arbitrary resolution bandwidth (RBW).

CISPR resolution bandwidth (RBW) value can be selected from the following:

200 Hz (6 dB), 9 kHz (6 dB), 120 kHz (6 dB), 1 MHz (Imp)

Note:

Detector: For Quasi-Peak, 1 MHz (Imp) cannot be set.

CISPR resolution bandwidth (RBW) setting

Example: To set the resolution bandwidth (RBW) to 120 kHz

<Procedure>

1. Press BW.
2. Press F8 (RBW Mode) to switch to CISPR.
3. Press F1 (RBW Auto/Manual) to switch to Manual.
4. Press F2 (RBW Value).
5. After pressing 1 2 0, press F3 (kHz) and set the resolution bandwidth (RBW).

<Screen display>

RBW Mode is CISPR: **6 dB** and **Imp** are displayed to identify RBW types.

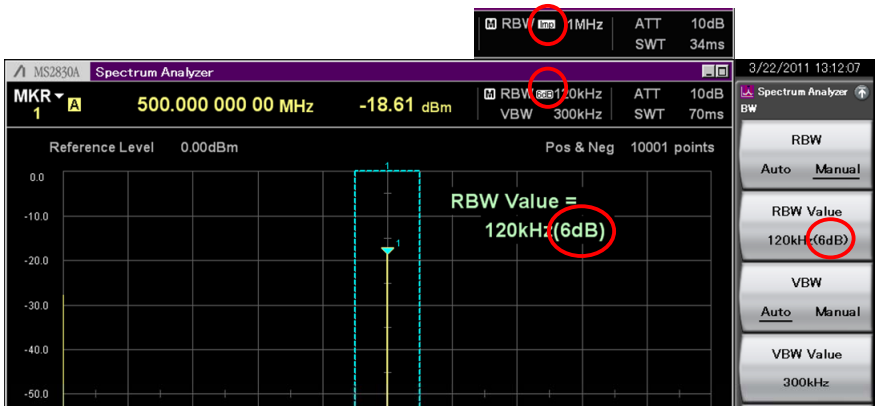


Figure 2.5.4-1 Screen for CISPR

Chapter 3 Display Mode Selection

This chapter describes the trace, storage mode, and wave detection mode.

3.1 Setting Storage Mode

Pressing F6 (Trace) on the main function menu, or pressing Trace displays the Trace function menu.

Figure 3.1-1 Trace key

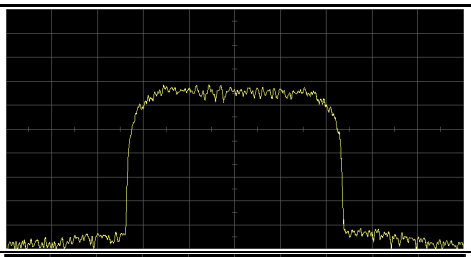
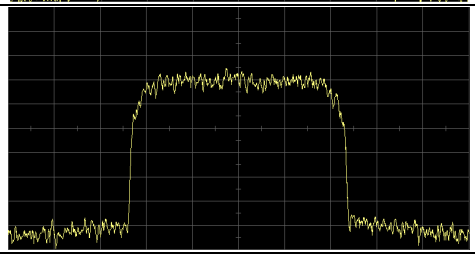
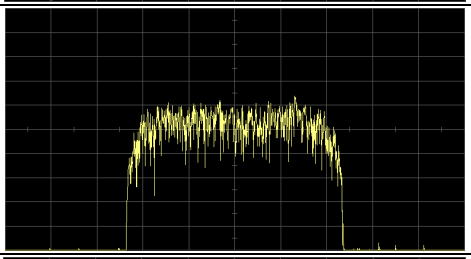
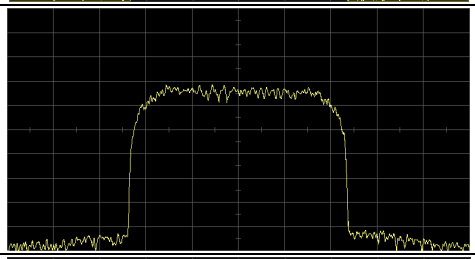
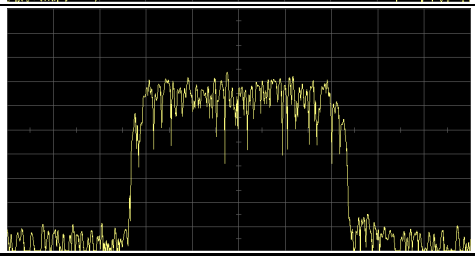
Table 3.1-1 Trace function menu

Function Key	Menu Display	Function
F1	Active Trace	Selects trace to be set. Trace Type and Storage Mode can be set for each trace.
F2	Trace Type	Used for setting related to update and display of trace data. 3.1.5 Displaying and updating Trace
F3	Storage Mode	Sets the storage mode type. 3.1.1 Storage mode types
F4	Storage Count	Sets the storage count. 3.1.2 Averaging function
F5	Limits	Sets the limit line. 3.2 Setting Limit Line
F8	Detection	Sets the detection mode. 3.1.4 Setting wave detection mode

3.1.1 Storage mode types

The following storage modes can be selected for trace A, trace B, trace C, trace D, trace E, and trace F.

Table 3.1.1-1 Storage Mode Types

Mode	Display	Description	Display Example
Lin Average	Lin	In the Log display mode, averaging is executed for linear values, and the result is displayed logarithmically.	
Max Hold	Max	At each sweep, the previous and new trace data of each horizontal axis point are compared and the larger of the two is displayed.	
Min Hold	Min	At each sweep, the previous and new trace data of each horizontal axis point are compared and the smaller of the two is displayed.	
Average	Avg	At each sweep, averaging calculations are done for each horizontal axis point, and the results are displayed. These results are used for improvement of the S/N ratio.	
Off	Off	At each sweep, the trace data are updated and displayed. These data are used for normal measurement.	

For storage mode, see Figure 3.1.4-2. It is displayed in Trace Parameter.

3.1.2 Averaging function

This function displays the averaged trace results.

Example: To set trace A to Average and the storage count to 100

<Procedure>

1. Press Trace.
2. Press F1 (Active Trace) and then press F1 (A).
3. Press F4 (Storage Mode) and select F4 (Average).
4. Press F7 (Storage Count).
5. After pressing 1 0 0, press F7 (Set) to set the storage count.

Table 3.1.2-1 shows the calculation method for averaging.

Table 3.1.2-1 When averaging exponent = N

Sweep Count	Measurement Value M (n)	Displayed Value
1	M (1)	$Y(1) = M(1)$
2	M (2)	$Y(2) = Y(1) + \frac{M(2) - Y(1)}{2}$
3	M (3)	$Y(3) = Y(2) + \frac{M(3) + Y(2)}{3}$
…	…	…
N – 1	M (N – 1)	$Y(N-1) = Y(N-2) + \frac{M(N-1) - Y(N-2)}{N-1}$
N	M (N)	$Y(N) = Y(N-1) + \frac{M(N) - Y(N-1)}{N}$
N + 1	M (N + 1)	$Y(N+1) = Y(N) + \frac{M(N+1) - Y(N)}{N}$
N + 2	M (N + 2)	$Y(N+2) = Y(N+1) + \frac{M(N+2) - Y(N+1)}{N}$
…	…	…

For storage times, see Figure 3.1.4-2. It is displayed in Trace Parameter.

Display except for Spectrum Emission Mask

Display in % for Spectrum Emission Mask

3.1.3 Max Hold/Min Hold function

This function holds and displays the maximum value (Max Hold) or minimum value (Min Hold) of the trace data.

Example: To set trace A to Max Hold, trace B to Min Hold, and simultaneous display

<Procedure>

1. Press Trace.
2. Press F1 (Active Trace) and then press F1 (A).
3. Press F2 (Trace Type) and then press F1 (Write).
4. Press F3 (Storage Mode) and then press F2 (Max Hold).
5. Press F1 (Active Trace) and then press F2 (B).
6. Press F2 (Trace Type) and then press F1 (Write).
7. Press F3 (Storage Mode) and then press F3 (Min Hold).

3.1.4 Setting wave detection mode

The wave detection mode can be selected from the modes listed in Table 3.1.4-1. When Couple Time/Frequency Domain is set to Off, each parameter is specified in accordance with the already-specified frequency axis or time axis measurement.

Table 3.1.4-1 Wave detection modes

Function Keys	Menu Display	Description
Page 1	Detection	Press **Detection** to display this.
F1	Pos&Neg	Displays a line connecting the maximum and minimum values between sample points.
F2	Positive	Displays the maximum value between sample points.
F3	Negative	Displays the minimum value between sample points.
F4	Sample	Displays the instantaneous value between sample points.
F5	RMS	Displays the root mean square value (effective value) between sample points.
Page 2	Detection	Displayed only when MS2830A-016/116 or MS2840A-016/116 is installed. Press **Detection**, and then press → to display this.
F1	Quasi-Peak*	Displays a result of Quasi-Peak detection.
F2	CISPR-AVG*	Displays a result of CISPR Average detection.
F3	RMS-AVG*	Displays a result of RMS Average detection.

*: When Detection is set to **Quasi-Peak**, **CISPR-AVG**, or **RMS-AVG**, RBW Mode is switched to **CISPR**.

When RBW Mode is set to **Normal**, Detection is reset to the previous setting other than **Quasi-Peak**, **CISPR-AVG**, and **RMS-AVG.**

When the Measure function is On, Detection cannot be set to **Quasi-Peak**, **CISPR-AVG**, or **RMS-AVG**.

When the Gate View function is On, Detection cannot be set to **Quasi-Peak**, **CISPR-AVG**, or **RMS-AVG**.

CISPR-AVG is averaged with Linear (Voltage) regardless of Scale: Log or Linear.

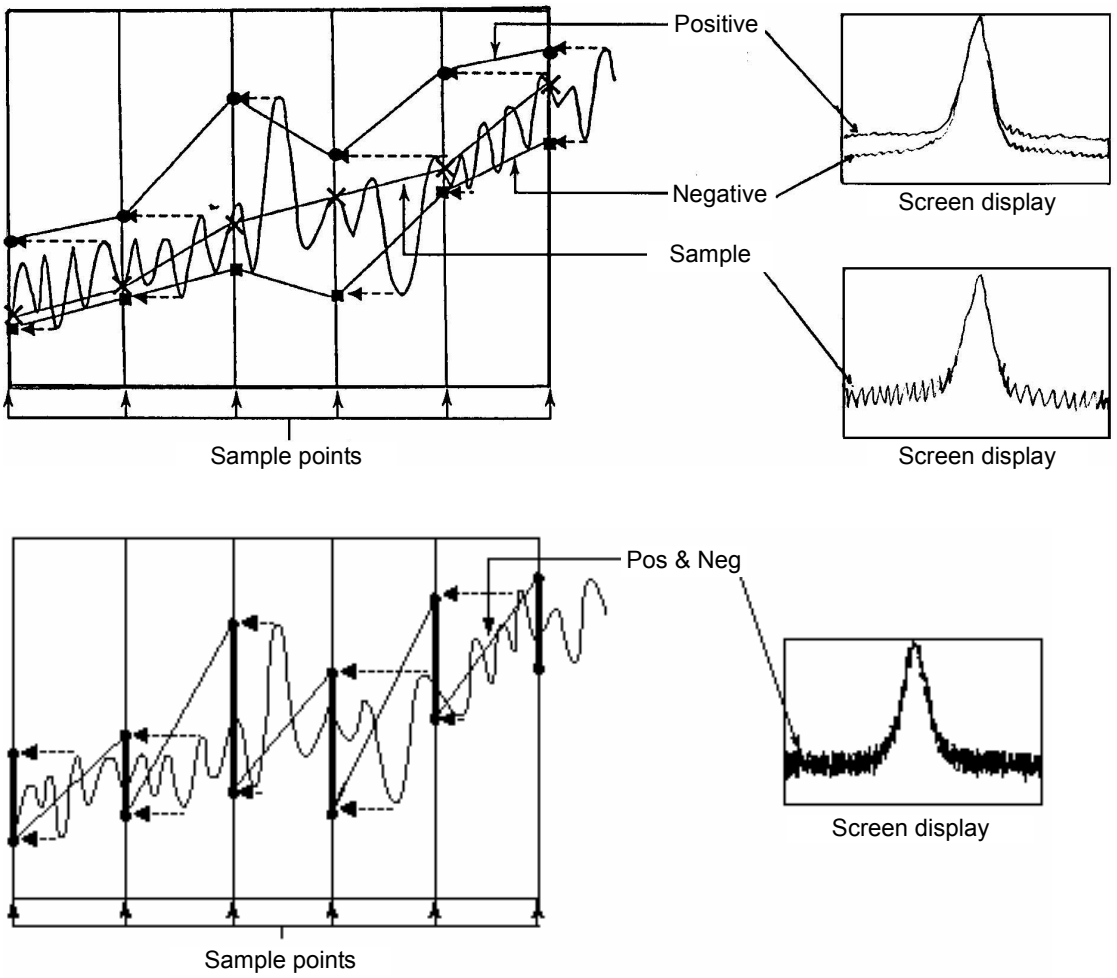


Figure 3.1.4-1 Screen display differences according to wave detection mode

Example: To set the wave detection mode to Negative

<Procedure>

1. Press Trace.
2. Press F8 (Detection) and then press F3 (Negative).

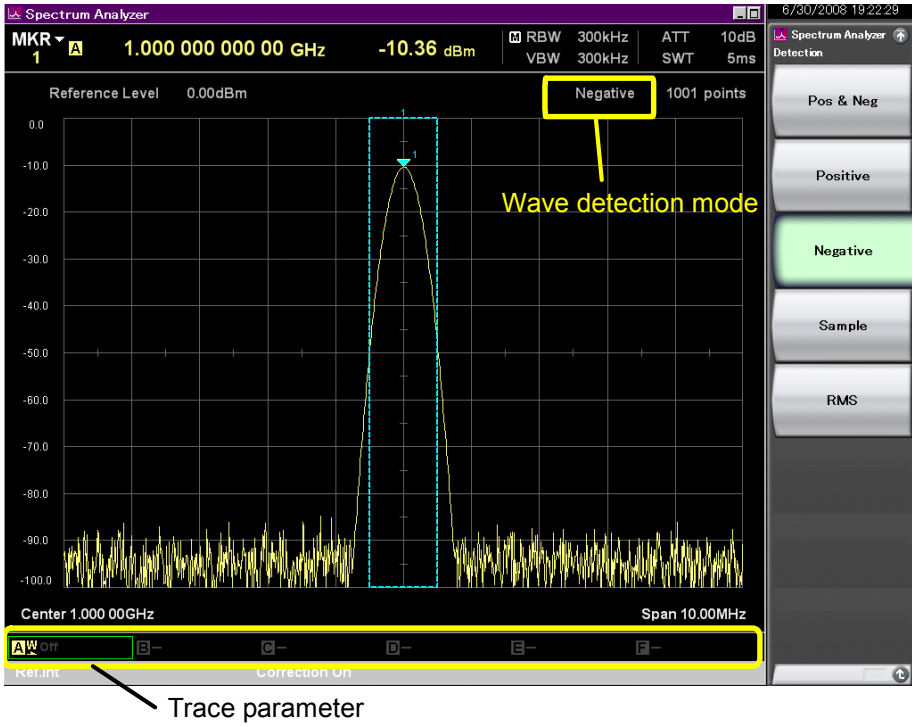


Figure 3.1.4-2 Wave detection mode selection

3.1.5 Displaying and updating Trace

You can configure Trace Type display settings here. Table 3.1.5-1 lists the available options.

Table 3.1.5-1 Trace Type Writing Modes

Trace Type Writing Modes	Display	Description
Write	W	Updates the display per measurement.
View	V	Keeps the current display; it does not update the display per measurement.
Blank	–	No trace is displayed.

For trace type writing mode, see Figure 3.1.4-2. It is displayed in Trace Parameter.

3.2 Setting Limit Line

You can evaluate trace data by drawing Limit Line.

Notes:

- The limit line function is not available when Measure function is set to ON.
- Limit Test (evaluation of trace data) is not performed when, on the Amplitude function menu, the Scale menu is set to **Lin**. The result of Limit Test is displayed as "*** LIMITn".

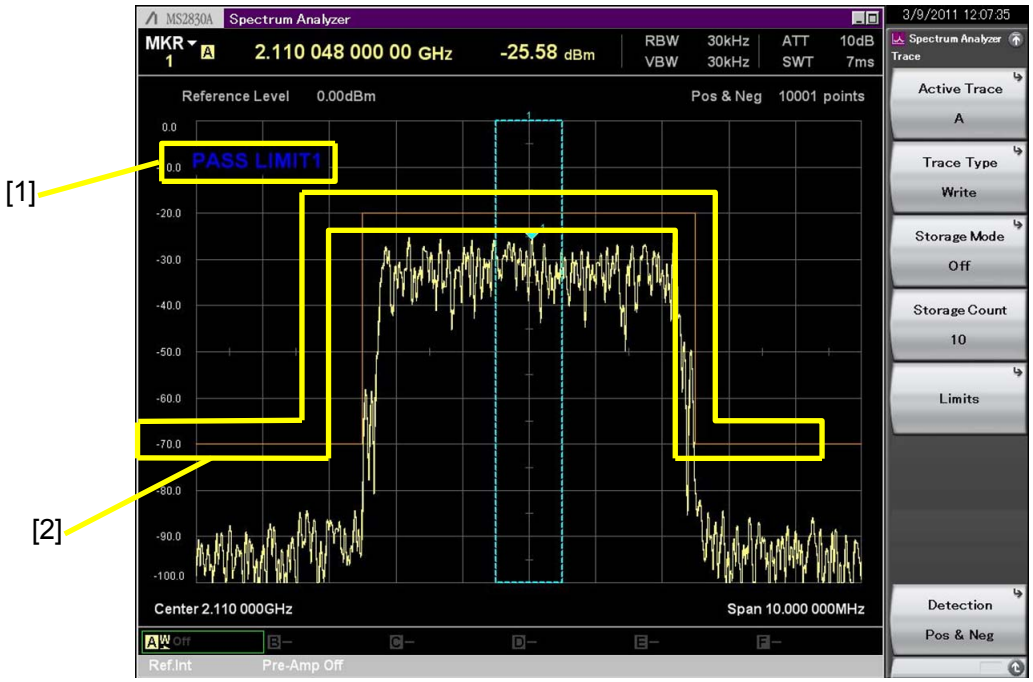


Figure 3.2-1 Display items for the Limit function

Table 3.2-1 Display items for the Limit function

No.	Display	Description
[1]	Limit Test	Displays a Pass/Fall judgment by determining whether or not data is within Limit Line.
[2]	Limit Line	Displays Limit Line.

3.2.1 Setting Limit function parameters

Pressing [F5] (Trace) on the main function menu or pressing [Trace] displays the Trace function menu. Selecting [F5] (Limits) on the Trace function menu displays the Limit function menu.

Example: To draw –20 dBm Limit Line between 1 to 2 GHz in order to determine data as Fail when it exceeds Limit Line

<Procedure>

1. Press [Trace].
2. Press [F5] (Limits).
3. Press [F1] (Limit1).
4. Press [→] to display page 2. Press [F1] (Limit Line Type (Frequency)) and select **Abs**.
5. Press [F2] (Limit Line Type (Amplitude)) and select **Abs**.
6. Press [→] to display page 1. Press [F1] (Type) to set it to Upper.
7. Press [F2] (Limit Display) to set it to On.
8. Press [F3] (Limit Test) to set it to On.
9. Press [F6] (Edit) and press [F1] (Point).
10. Press [1] to set Point to Point1.
11. When [F3] (Frequency) is not displayed, press [F2] (Add Point).
12. Press [F3] (Frequency).
13. Press [1], and then press [F1] (GHz) to set Frequency.
14. Press [F4] (Amplitude).
15. Press [–/+] [2] [0], and press [F1] (dBm) to set Amplitude.
16. Press [F2] (Add Point).
17. Press [F3] (Frequency).
18. Press [2], and then press [F1] (GHz) to set Frequency.
19. Press [F4] (Amplitude).
20. Press [–/+] [2] [0], and press [F1] (dBm) to set Amplitude.
21. Press [F5] (Connected to Previous Pt) and set it to On to connect Point1 and Point2 with a line.

3.2.2 Setting Limits

Selecting F5 (Limits) on the Trace function menu displays the Limits function menu. You can set six types of Limit Line.

Table 3.2.2-1 Limits function menu

Function key	Menu Display	Function
F1	Limit1	Sets Limit Line 1. ☞ 3.2.3 "Setting Limit1 to 6"
F2	Limit2	Sets Limit Line 2. ☞ 3.2.3 "Setting Limit1 to 6"
F3	Limit3	Sets Limit Line 3 ☞ 3.2.3 "Setting Limit1 to 6"
F4	Limit4	Sets Limit Line 4 ☞ 3.2.3 "Setting Limit1 to 6"
F5	Limit5	Sets Limit Line 5 ☞ 3.2.3 "Setting Limit1 to 6"
F6	Limit6	Sets Limit Line 6 ☞ 3.2.3 "Setting Limit1 to 6"
F8	Delete All Limits	Deletes all Point values of Limit Line 1 to 6.

3.2.3 Setting Limit1 to 6

Selecting F1 (Limit1) to F6 (Limit6) on the Limits function menu displays Limit1 to Limit6 function menu.

Table 3.2.3-1 Limit1 to 6 function menus

Function key	Menu Display	Function
Page 1	Limit1 to Limit6	Press F1 (Limit1) to F6 (Limit6) on the Limits function menu.
F1	Type	Sets the Limit Line type. Upper: Upper limit (Default) Lower: Lower limit
F2	Limit Display	Sets whether to show or hide Limit Line. On: Display Off: Hide (Default)
F3	Limit Test	Sets whether or not to make a judgment by Limit Line. On: Makes a judgment. Off: Does not make a judgment. (Default)
F4	Margin(On/Off)	Sets whether to show or hide the Margin line. This line is determined by adding the Limit Line with Offset. On: Display Off: Hide (Default)
F5	Margin Value	Sets the Offset value to be added with the Margin line. Range: –40.00 to 0.00 (Upper) 0.00 to 40.00 (Lower) Resolution: 0.01 dB Rotary knob resolution: 0.1 dB Step key resolution: 1 dB Default: 0 dB
F6	Edit	Sets individual Points of Limit Line. 3.2.4 “Edit Parameter”
F7	Envelope	Displays the Envelope-Limit x function menu. 3.2.5 “Limit Envelope Function”
F8	Test Trace*	Sets the test target Trace. Options: A,B,C,D,E,F Default: A

*: When one of the Limit1 to Limit6 function menus is selected, the setting of the Active Trace (F1) on the Trace function menu is set automatically.

Table 3.2.3-1 Limit1 to 6 function menus (Cont'd)

Function key	Menu Display	Function
Page 2	Limit1 to Limit6	Press F1(Limit1) to F6(Limit6) on the Limits function menu and then press to → display page 2.
F1	Limit Line Type (Frequency)	Sets the mode of setting the frequency axis of the Limit Line. Abs: Absolute value of the frequency Rel: Relative value with respect to the Center Frequency (Default)
F2	Limit Line Type (Amplitude)	Sets the mode of setting the level axis of the Limit Line. Abs: Absolute level (dBm) (Default) Rel: Relative value with respect to the Reference Level (dB)
F4	Save Limit x	Displays the Save Limit function menu. ☞ Table 3.2.6-2 Save Limit function menu
F5	Recall Limit x	Displays the Recall Limit1 to 6 function menu. ☞ Table 3.2.7-3 Recall Limit1 to 6 function menu
F7	Mirror Limit	Sets whether to mirror (On) or not (Off: Default) the settings for the right half to the left half. This menu is available only when the Limit Line Type (Frequency) menu is set to **Rel.**

(1) Setting a display format of Limit Line

Example: To display a judgment by Limit Line by displaying Limit1 as Upper Limit and displaying Limit Line

<Procedure>

1. Press Trace.
2. Press F5 (Limits).
3. Press F1 (Limit1).
4. Press F1 (Type) to set it to Upper.
5. Press F2 (Limit Display) to set it to On.
6. Press F3 (Limit Test) to set it to On.

Details for Limit Test

- When Type is Upper and data exceeds Limit Line, the test result will be Fail.
- When Type is Lower and data is below Limit Line, the test result will be Fail.

(2) Margin function

Example: To display a Margin line by adding the Limit Line with –20 dB

<Procedure>

1. Press Trace.
2. Press F5 (Limits).
3. Press F1 (Limit1).
4. Press F4 (Margin) to set it to On.
5. Press F5 (Margin Value).
6. Press –/+ 2 0, and then press F1 (dB) to set Margin Value.

3.2.4 Edit parameters

Selecting F6 (Edit) on the Limit1 to 6 function menu displays the Edit-Limit x function menu.

Table 3.2.4-1 Edit-Limit x function menu

Function key	Menu Display	Function
F1	Point	Sets the Limit Point you want to edit.
F2	Add Point	Adds a Limit Point with the same frequency and level as the selected Limit Point, on the right of the selected Limit Point.
F3	Frequency*	Sets the Frequency of Limit Point.
F4	Amplitude*	Sets the level of Limit Point.
F5	Connected to Previous Pt (On/Off)*	Sets whether to turn on or off linear interpolation between Pts (Limit Points). Pass/Fail evaluation is performed by making linear interpolation between the current Limit Point selected and the other Limit Point that is located on the nearest left of the current Limit Point.
F6	Previous Pt Level Offset*	Sets the offset value from the current Limit point for connecting Pts (Limit Points) with a line.
F7	Delete Point	Deletes the selected Limit Point.
F8	Delete Limit	Deletes all Limit Points of Limit x.

*: The F3 to F6 function menus are not displayed, when the number of Limit Points is 0.

(1) Setting Point

Point

Setting range:	1 to Limit Points (Max: 100)
Minimum resolution:	1
Rotary knob resolution:	1
Step key resolution:	1

(2) Setting Frequency Offset

Example: To set Frequency Offset to 1 GHz

<Procedure>

1. Press Trace.
2. Press F5 (Limits).
3. Press F1 (Limit1).
4. Press F6 (Edit).
5. Press F2 (Frequency Offset).
6. After pressing 1, press F1 (GHz) to set Frequency Offset.

Frequency

When the Limit Line Type (Frequency) menu is set to **Abs**.

Setting range:	0 to 325 GHz
Default:	Start Frequency
Minimum resolution:	1 Hz
Rotary knob resolution:	1/10000 of the frequency span
Step key resolution:	Step Size

When the Limit Line Type (Frequency) menu is set to **Rel**.

Setting range:	–100 to 100 GHz
Default:	0 Hz
Minimum resolution:	1 Hz
Rotary knob resolution:	1/10000 of the frequency span
Step key resolution:	Step Size

2.3.2 “Setting frequency span”
2.3.9 “Setting step size”

Notes:

- When a point's Frequency value is higher than the other points' value and this relationship reverses, the order of points automatically changes.
- When the Limit Line Type (Frequency) is switched, a value exceeding the setting range may be read.

(3) Setting Amplitude

Example: To set Amplitude to –10 dBm

<Procedure>

1. Press Trace.
2. Press F5 (Limits).
3. Press F1 (Limit1).
4. Press F6 (Edit).
5. Press F4 (Amplitude).
6. Press –/+ 1 0, and press F1 (dBm) to set Amplitude.

Amplitude

When Limit Line Type (Amplitude) is **Abs**.

Setting range:	–300.00 to 300.00 dBm
Default:	Reference Level
Minimum resolution:	0.01 dB
Rotary knob resolution:	1 dB
Step key resolution:	10 dB

When Limit Line Type (Amplitude) is **Rel**.

Setting range:	–300.00 to 300.00 dB
Default:	0 dB
Minimum resolution:	0.01 dB
Rotary knob resolution:	1 dB
Step key resolution:	10 dB

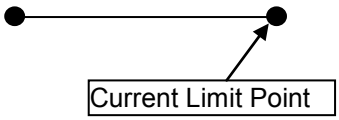
Note:

When the Limit Line Type (Amplitude) is switched, a value exceeding the setting range may be read.

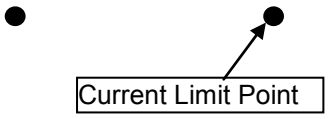
(4) Connected to Previous Pt

Pass/Fail evaluation between Limit Points is performed by making linear interpolation between the current Limit Point and the other Limit Point that is located on the nearest left of the current Limit Point. Also, linear interpolation can be made with a margin added to.

Linear Interpolation: On



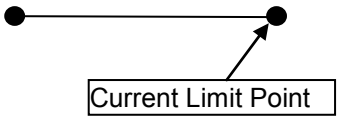
Linear Interpolation: Off



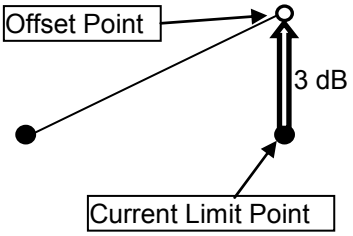
(5) Previous Pt Level Offset

Linear interpolation between Limit Points is performed with respect to "previous Limit Point" and "Offset Point (○) from the current Limit Point". Limit evaluation will be made according to the Limit Points (●), without including the Offset Point (○).

Linear Interpolation Without Offset



Linear Interpolation With Offset of 3 dB



Previous Pt Level Offset

Setting range:	–300.00 to 300.00 dB
Default:	0 dB
Minimum resolution:	0.01 dB
Rotary knob resolution:	1 dB
Step key resolution:	10 dB

(6) Creating a new Limit Line

<Procedure>

1. Press F6 (Edit).
2. Press F2 (Add Point).
3. Set the Frequency.
4. Set the Amplitude.
5. Press F5 (Connected to Previous Pt) and set to On/Off.
6. Set the Previous Pt Level Offset.
7. Repeat steps 3 to 6 until the Limit Points are set.

(7) Adding a new Limit Point to an existing Limit Line

<Procedure>

1. Press F6 (Edit).
2. Press F1 (Point).
3. Rotate the rotary knob until the point to add a Limit Point is selected.
4. Press F2 (Add Point).
5. Press F3 (Frequency) and set the frequency.
6. Press F4 (Amplitude) and set the level.
7. Press F5 (Connected to Previous Pt) and set to On.
8. Press F6 (Previous Pt Level Offset) and set the offset.

3.2.5 Limit Envelope Function

Selecting F7 (Envelope) on the Limit1 to 6 function menu displays the Envelope-Limit x function menu.

Set the values of the following: F4 (Points), F5 (Offset) and F6 (Shape). Then, clicking F1 (Create Envelope) automatically creates Limit Point(s) and Limit Line from the Trace data of the measurement results.

Note:

Pressing F1 (Create Envelope) or F2 (Update Envelope Amplitude) clears all Limit Points set in 3.2.4 "Edit parameters". Then, Limit Points are arranged at regular intervals in the on-screen span, according to the number and shape that are respectively set at F4 (Points) and F6 (Shape).

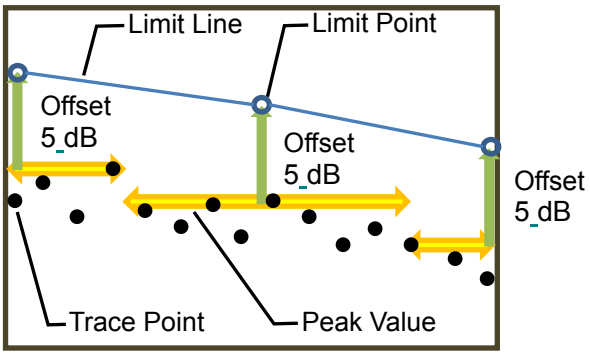
Table 3.2.5-1 Envelope-Limit x function menu

Function key	Menu Display	Function
F1	Create Envelope	Automatically creates a Limit Line from the current Trace data. This menu is unavailable when the Mirror Limit menu is set to On.
F2	Update Envelope Amplitude	Automatically updates a Limit Point of the Peak Level that includes a Trace Point evaluated as "Fail", referring to the current trace data. This menu is unavailable when the Mirror Limit menu is set to On. This menu is unavailable after editing the Limit Line when Shape is set to Square.
F4	Points	Sets the number of Envelope Points to be arranged when automatically creating a Limit Line. When the **Create Envelope** menu is executed, the set value applies.
F5	Offset	Sets the offset level (from the current peak Trace Point to the Limit Point). When the **Create Envelope** or **Update Envelope** menu is executed, the set value applies.
F6	Shape	Sets the shape of the Limit Line. When the **Create Envelope** menu is executed, the set value applies. This menu is unavailable when the Mirror Limit menu is set to On. Slope: Connects Limit Points with straight lines. (Default) Square: Connects Limit Points with vertical and horizontal lines.

Create Envelope

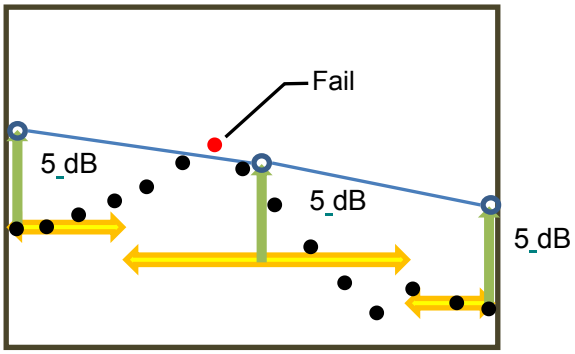
Example: When executing the **Create Envelope** menu with the following menu settings:
Type: Upper, Trace Points: 15, Points: 3, Offset: 5 dB, Shape: Slope

The following figure shows a Limit Line (—) and Limit Points (○) that are automatically created with respect to Trace Points (●), peak values for Trace Point values (←→) and offset values (↑).

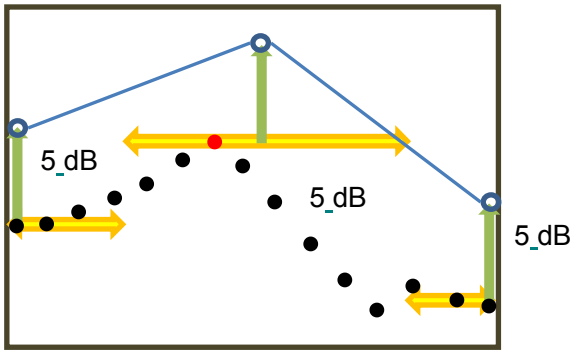


Update Envelope Amplitude

Example: When a Trace Point (●) is evaluated as "Fail" by performing the measurement with the following menu settings:
Type: Upper, Trace Points: 15, Points: 3, Offset: 5 dB, Shape: Slope



The level of the Limit Point including a Fail Trace Point is recalculated by executing the **Update Envelope Amplitude** menu.



Points

Setting range: When Shape is set to Slope:
2 to (Trace Points–2) × 2 + 2, (Max: 100)
When Shape is set to Square:
2 to Trace Points, (Max: 100)

Default: 41

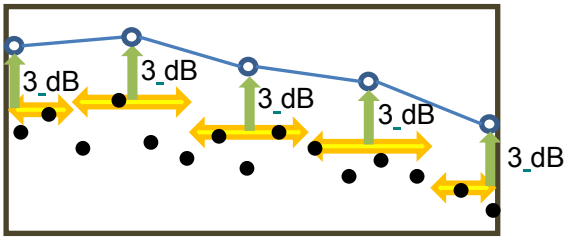
Resolution: 1 (Slope), 2 (Square)

Shape

When Shape is set to Slope:

The number of Limit Points (○) is equal to that of Envelope Points set by F4 (Points). Limit Line (—) is created by connecting Limit Points (○) by straight lines.

Example: When the number of Envelope Points is 5



When Shape is set to Square:

The following figure shows the number of Limit Points (○) that depends on the number of Envelope Points (▲) set by F4 (Points). Limit Line (—) is created by connecting Envelope Points(▲) by straight lines.

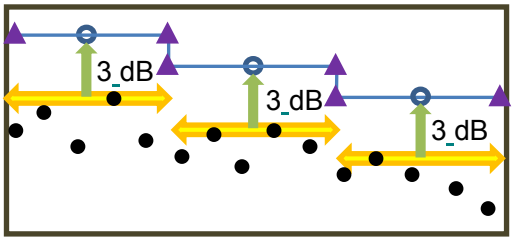
Example:

When the number of Envelope Points is an odd number, the number of Limit Points is obtained by the following formula:

(The number of Envelope Points+1)/2

When the number of Envelope Points is an even number, the number of Limit Points is determined by the following formula:

(The number of Envelope Points)/2



3.2.6 Saving a Limit file

The Save function menu is displayed by pressing Save when the Spectrum Analyzer screen is active. For details on the functions, refer to Table 3.2.6-1.

Table 3.2.6-1 Save function menu

Function key	Menu Display	Function
F1	Device	Sets a save destination drive.
F3	Save Limit	Displays the Save Limit function menu. ☞ Table 3.2.6-2 Save Limit function menu
F4	Save on Event	Displays the Save on Event function menu where you can specify whether or not to save Trace data upon occurrence of an event. This function is not available when Measure function is set to ON. ☞ Table 3.4-1 Save on Event function menu
F5	Save Waveform CSV DATA	Saves the displayed waveform data (Trace). ☞ MS2830A Signal Analyzer Operation Manual (Mainframe Operation) MS2840A Signal Analyzer Operation Manual (Mainframe Operation) Chapter 3 Common Operations
F7	Save Application	Saves the parameter setting conditions of all the launched applications. ☞ MS2830A Signal Analyzer Operation Manual (Mainframe Operation) MS2840A Signal Analyzer Operation Manual (Mainframe Operation) Chapter 3 Common Operations
F8	Close	Returns to the previous function menu.

On the Save Limit function menu, you can save settings of Limit Line to a file.

Table 3.2.6-2 Save Limit function menu

Function key	Menu Display	Function
F1	Limit1	Saves the settings for Limit Line1 to a file with a specified name.
F2	Limit2	Saves the settings for Limit Line2 to a file with a specified name.
F3	Limit3	Saves the settings for Limit Line3 to a file with a specified name.
F4	Limit4	Saves the settings for Limit Line4 to a file with a specified name.
F5	Limit5	Saves the settings for Limit Line5 to a file with a specified name.
F6	Limit6	Saves the settings for Limit Line6 to a file with a specified name.

Limit1 to Limit6

Pressing the function key displays the dialog box where you can save the Limit Line settings to a file with a specified name.

Save destination for Limit Line files

< D:\Anritsu Corporation\Signal Analyzer\User Data\Limit>

Limit Line file Name

Limit“Date”_“Sequential Number”.xml

(Sequential number from 000 to 999. Up to 1000 files can be saved in the folder.)

MS2830A Signal Analyzer Operation Manual (Mainframe Operation)
MS2840A Signal Analyzer Operation Manual (Mainframe Operation)
Chapter 3 Common Operations

3.2.7 Loading a Limit file

The Recall function menu is displayed by pressing Recall when the Spectrum Analyzer screen is active. For details on the functions, refer to Table 3.2.7-1. On the Recall function menu, you can load and delete Limit Line files.

Table 3.2.7-1 Recall function menu

Function key	Menu Display	Function
F1	Device	Specifies the drive where files are stored.
F3	Recall Limit	Displays the Recall Limit function menu. ☞ Table 3.2.7-2 Recall Limit function menu
F4	Recall Waveform File	Displays the Recall Waveform File function menu. ☞ Table 3.4.3-1 Recall Waveform File function menu
F6	Recall Current Application	Displays the Parameter Save Data List. This function is used when recalling the parameter setting conditions to only the target application. ☞ MS2830A Signal Analyzer Operation Manual (Mainframe Operation) MS2840A Signal Analyzer Operation Manual (Mainframe Operation) Chapter 3 Common Operations
F7	Recall all Application	Displays the Parameter Save Data List. This function is used when recalling the parameter setting conditions to all the loaded applications. ☞ MS2830A Signal Analyzer Operation Manual (Mainframe Operation) MS2840A Signal Analyzer Operation Manual (Mainframe Operation) Chapter 3 Common Operations
F8	Close	Returns to the previous function menu.

On the Recall Limit function menu, you can select a Limit Line you want to load or delete Limit Line file(s).

Table 3.2.7-2 Recall Limit function menu

Function key	Menu Display	Function
F1	Limit1	Displays the Recall Limit1 function menu.
F2	Limit2	Displays the Recall Limit2 function menu.
F3	Limit3	Displays the Recall Limit3 function menu.
F4	Limit4	Displays the Recall Limit4 function menu.
F5	Limit5	Displays the Recall Limit5 function menu.
F6	Limit6	Displays the Recall Limit6 function menu.

Load source directory of Limit Line file

< D:\Anritsu Corporation\Signal Analyzer\User Data\Limit>

or

< D:\Anritsu Corporation\Signal Analyzer\User Data\Parameter Setting>

Limit Line file formats that can be recalled

csv, lim, xml

On the Recall Limit1 to 6 function menu, you can select Limit Line file(s) you want to load or delete.

Table 3.2.7-3 Recall Limit1 to 6 function menu

Function key	Menu Display	Function
F1	Device	Selects a device that resides in the folder where the target file is stored.
F3	Delete Files	Displays the Delete Files function menu. Table 3.2.7-4 Delete Files function menu
F8	Recall	Displays the Recall function menu. Table 3.2.7-5 Recall function menu

On the Delete Files function menu, you can select and delete Limit Line file(s).

Table 3.2.7-4 Delete Files function menu

Function key	Menu Display	Function
F3	Select All	Selects all files.
F7	Delete	Deletes the selected file(s).
F8	Cancel	Deselects the file(s) and returns to the Recall Limit1 to 6 function menu.

On the Recall function menu, you can load the selected Limit Line file.

Table 3.2.7-5 Recall function menu

Function key	Menu Display	Function
F7	Set	Loads the selected file.
F8	Cancel	Deselects the file and returns to the Recall Limit1 to 6 function menu.

3.3 Setting Time/Sweep

Pressing F8 (Time/Sweep) on the main function menu, or pressing Time/Sweep displays the Time/Sweep function menu.

Figure 3.3-1 Time/Sweep key

Table 3.3-1 Time/Sweep function menu

Function Key	Menu Display	Function
F1	Sweep Time (Auto/Manual)	Sets the Auto mode/Manual mode for the sweep time. ☞ 3.3.1 "Setting sweep time"
F2	Sweep Time	Sets the sweep time. ☞ 3.3.1 "Setting sweep time"
F3	Auto Sweep Time Select (Normal/Fast)	Sets the Normal mode/Fast mode when the sweep time is set to Auto. ☞ 3.3.1 "Setting sweep time"
F4	Trace Points	Sets the number of trace points. ☞ 3.3.2 "Setting trace point"
F8	Auto Swp Type Rules	Displays the Sweep Type Rules function menu. ☞ 3.3.3 "Sweep Type Rules"

3.3.1 Setting sweep time

Set the sweep time. When Auto is set, the optimum value is set automatically. Each parameter is specified in accordance with the already-specified frequency axis or time axis measurement.

Setting range and resolution for Sweep Time

Setting range: 1 ms to 1000 s (in frequency domain)
1 µs to 1000 s (in time domain)

Resolution
In Frequency Domain
1 ms (2 to 999 ms)
0.1 s (1 to 9.9 s)
1 s (10 to 1000 s)

In Time Domain
1 µs (1 to 999 µs)
0.1 ms (1 to 9.9 ms)
1 ms (1 to 999 ms)
0.1 s (1 to 9.9 s)
1 s (1 to 1000 s)

Example: To set Sweep Time value to 20 s
<Procedure>

1. Press Time/Sweep.
2. Press F2 (Sweep Time).
3. After pressing 2 0, press F1 (s) to set the Sweep Time.

When the sweep time is set to Auto, Normal mode (normal sweep) / Fast mode (fast sweep) can be set.

Configuring Auto Sweep Time Select setting

Setting range: Normal
Fast

When Detection is set to **Quasi-Peak**, **CISPR-AVG**, or **RMS-AVG**, the Auto Sweep Time Select setting becomes invalid.

Example: To set Fast mode by setting Sweep Time to Auto
<Procedure>

1. Press Time/Sweep.
2. Press F1 (Sweep Time) and select Auto.
3. Press F3 (Auto Sweep Time Select) and select Fast to set the Fast mode.

3.3.2 Setting trace point

Trace point refers to the number of waveform data points. When Couple Time/Frequency Domain is set to Off, each parameter is specified in accordance with the already-specified frequency axis or time axis measurement. The following numbers of trace points can be selected.

Table 3.3.2-1 Trace Point Setting Range

Condition	Range
Span > 30 GHz	5001, 10001
500 MHz < Span ≤ 30 GHz	1001, 2001, 5001, 10001
100 MHz < Span ≤ 500 MHz	101, 201, 251, 401, 501, 1001, 2001, 5001, 10001
300 Hz ≤ Span ≤ 100 MHz AND Sweep Time > 10 s	101, 201, 251, 401, 501, 1001, 2001, 5001, 10001
300 Hz ≤ Span ≤ 100 MHz AND Sweep Time ≤ 10 s	11, 21, 41, 51, 101, 201, 251, 401, 501, 1001, 2001, 5001, 10001
Span = 0 Hz AND Sweep Time > 10 s	101, 201, 251, 401, 501, 1001, 2001, 5001, 10001
Span = 0 Hz AND Sweep Time ≤ 10 s	11, 21, 41, 51, 101, 201, 251, 401, 501, 1001, 2001, 5001, 10001

Example: To set the number of trace points to 2001.

<Procedure>

1. Press Time/Sweep.
2. Press F4 (Trace Points).
3. Press 2 0 0 1 and then press F7 (Set) to set the number of trace points.

3.3.3 Sweep Type Rules

For Sweep (SW) Type Rules, specify the rules for determining which sweep method to use (sweep type or FFT type) when performing a frequency sweep.

When RBW Mode is set to **CISPR**, Auto Sweep Type Rules is fixed to **Swept Only**.

Example: To prioritize the use of an FFT type sweep with an RBW of ≤ 40 kHz.

<Procedure>

1. Press Time/Sweep.
2. Press F8 (Auto Swp Type Rules).
3. Press F5 (FFT Priority).
4. Press F8 (FFT Width).
5. Press F1 (≤ 40 kHz).

Note:

During FFT operation, because the Sweep Time displayed on the screen does not include the calculation time, the actual sweep time might be longer depending on settings such as those for RBW, VBW, and SPAN.

Table 3.3.3-1 Sweep(SW) Type Rules function menu

Function Key	Menu Display	Function
F1	Dynamic Range	Sets the FFT width so as to maximize the internal dynamic range. Of the FFT type and sweep type, the one that has the shorter sweep time is selected.
F2	Speed	Sets the FFT width so as to prioritize the sweep speed over the dynamic range. Of the FFT type and sweep type, the one that has the shorter sweep time is selected.
F3	Swept Only	Uses only the sweep type.
F4	Swept Priority	Prioritizes use of the sweep type. The FFT type is used when the sweep type cannot be.
F5	FFT Priority	Prioritizes use of the FFT type. The sweep type is used when the FFT type cannot be.
F8	FFT Width	Displays the FFT width function menu and determines the FFT width when FFT Priority is selected.

Table 3.3.3-2 FFT width function menu

Function Key	Menu Display	Function
F1	≤ 40 kHz	Uses an FFT width of 40 kHz or less.
F2	≤ 2 MHz	Uses an FFT width of 2 MHz or less.

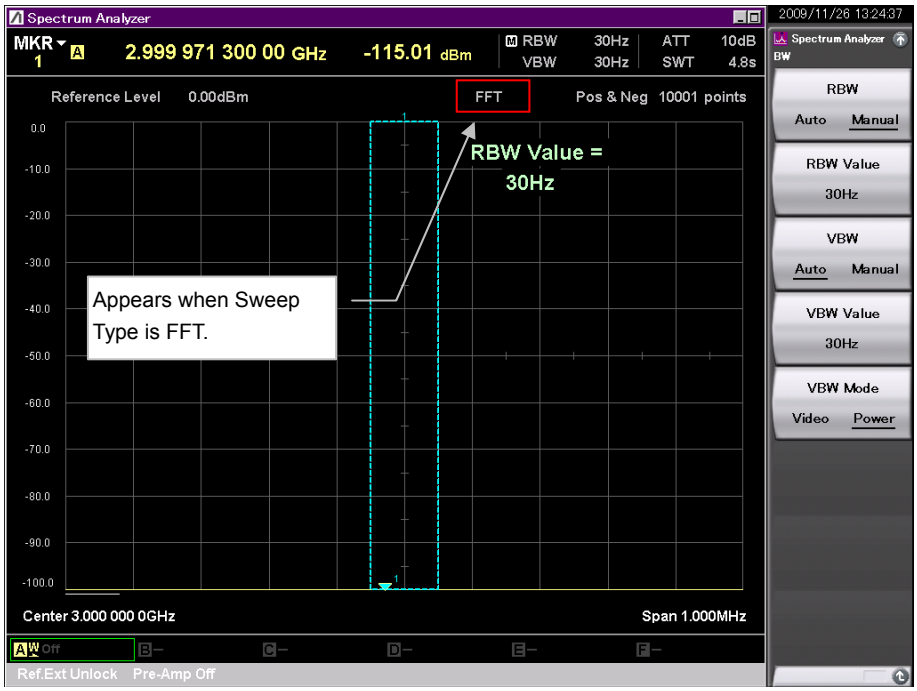


Figure 3.3.3-1 FFT display

Note:

FFT is not displayed when the Spectrum Emission Mask measurement is performed.

3.4 Save on Event

The Save on Event function menu is displayed by pressing Save and F4 (Save on Event) when the Spectrum Analyzer screen is active. For details on the functions, refer to Table 3.4.1-1.

3.4.1 Setting Save on Event

The Save on Event function saves a waveform upon occurrence of any of the trigger events set by F2 (Event Type). Continuous file save operations can be performed.

Note:

- When the Storage Mode is set to other than **Off**, trace data is saved upon occurrence of one of the events specified by the Event Type menu after the number of storages reaches the Storage Count.
- Save operation stops when the free HDD/SSD space falls below 1 MB.

Table 3.4.1-1 Save on Event function menu

Function key	Menu Display	Function
F1	Save on Event	Sets whether to turn on or off the Save on Event function. On: Turns on the function. Off: Turns off the function. (Default)
F2	Event Type	Sets events that trigger a file save operation. Limit Fail: Saves a waveform if a Limit evaluation result is Fail. (Default) Limit Pass: Saves a waveform if a Limit evaluation result is Pass. Margin Fail: Saves a waveform if an evaluation result including Margin is Fail. Margin Pass: Saves a waveform if an evaluation result including Margin is Pass. Sweep Complete: Saves a waveform whenever measurement is performed, regardless of the Limit evaluation result.
F3	Save then Stop	Sets whether to perform the Save on Event function only once or perform it continuously. On: Performs only once. Off: Continuously performs. (Default)
F5	File Name	Sets the Filename that is internal data of a Folder.csv file to be saved. Default: LIM

File Name

This menu is used to set the Filename (underlined part of the following) that is internal data of a Waveform file to be saved as Folder.csv when performing the Save on Event function.

Filename,Date,999.500001 MHz,999.501819 MHz,…,1000.500001 MHz
LIM20140416163123000_R.spa, 4/16/2014 4:31:23 PM, -98.292000, -98.268000,…,-103.104000
LIM20140416163134000_R.spa,4/16/2014 4:31:34 PM,-102.664000,-102.688000,…,-106.108000
⋮

If omitted, the following is automatically set.
When Event Type is other than Sweep Complete: LIM
When Event Type is Sweep Complete: EOS

3.4.2 Waveform files for Save on Event

This section describes Waveform files to be saved when the Save on Event function is turned on.

Save destination and load source for Waveform files

After the parameters are set, a folder is created by the name including a timestamp of measurement start. Then, a csv file containing multiple data sets is created and stored in the folder.

Save destination for Waveform files

Example: When starting measurement on April 16 at 15:29, a file save destination is as follows:

<D:\Anritsu Corporation\Signal Analyzer\User Data\Waveform\04161529_1>

The number of the end of "04161529_1" is incremented automatically in order of "04161529_1", "04161529_2", and "04161529_3." It will be set to "04161530_1" if it will become 15:30.

Waveform file name

Folder.csv

Waveform file format

Example: Event Type: Other than Sweep Complete, Detection: RMS

Filename,Date,999.500001 MHz,999.501819 MHz,…,1000.500001 MHz
LIM20140416163123000_R.spa, 4/16/2014 4:31:23 PM, -98.292000, -98.268000,…,-103.104000
LIM20140416163134000_R.spa,4/16/2014 4:31:34 PM,-102.664000,-102.688000,…,-106.108000
⋮
LIM20140416164324000_R.spa,4/16/2014 4:43:24 PM,-101.460000,-103.128000,…,-106.500000

Example: Event Type: Other than Sweep Complete, Detection: Pos&Neg

Filename, Date, 999.500001 MHz, 999.501819 MHz,…, 1000.500001 MHz
LIM20140416163123000_P.spa,4/16/2014 4:31:23 PM,-98.292000,-98.268000,…,-103.104000
LIM20140416163123000_N.spa,4/16/2014 4:31:23 PM,-98.294000,-98.269000,…,-103.105000
LIM20140416163134000_P.spa,4/16/2014 4:31:34 PM,-102.664000,-102.688000,…,-106.108000
LIM20140416163134000_N.spa,4/16/2014 4:31:34 PM,-102.666000,-102.689000,…,-106.109000
⋮
LIM20140416164324000_P.spa, 4/16/2014 4:43:24 PM, -101.460000, -103.128000,…,-106.500000
LIM20140416164324000_N.spa,4/16/2014 4:43:24 PM,-101.480000, -103.129000,…,-106.700000

Example: Event Type: Sweep Complete, Detection: RMS

Filename,Date,999.500001 MHz,999.501819 MHz,…,1000.500001 MHz
EOS20140416163123000_R.spa,4/16/2014 4:31:23 PM,-98.292000,-98.268000,…,-103.104000
EOS20140416163134000_R.spa,4/16/2014 4:31:34 PM,-102.664000,-102.688000,…,-106.108000
⋮
EOS20140416164324000_R.spa,4/16/2014 4:43:24 PM,-101.460000,-103.128000,…,-106.500000

Meaning of description in file format

_P: Positive detection, _N: Negative detection, _R: RMS detection,
_S: Sample detection

3.4.3 Waveform files for Save on Event

The Recall function menu is displayed by pressing Recall when the Spectrum Analyzer screen is active. Pressing F4 (Recall Waveform File) on the Recall function menu displays the Table 3.4.3-1 Recall Waveform File function menu.

On the Recall Waveform File function menu, you can select Save on Event Waveform files you want to delete.

Table 3.4.3-1 Recall Waveform File function menu

Function key	Menu Display	Function
F1	Device	Selects a device that resides in the folder where the target file is stored.
F3	Delete Files	Displays the list of Save on Event Waveform files stored and displays the Delete Files function menu. Table 3.4.3-2 Delete Files function menu

On the Delete Files function menu, you can select and delete Save on Event Waveform file(s).

Table 3.4.3-2 Delete Files function menu

Function key	Menu Display	Function
F3	Select All	Selects all files.
F7	Delete	Deletes the selected file(s).
F8	Cancel	Deselects the file(s) and returns to the Recall Waveform File function menu.

Chapter 4 Marker Function

This chapter describes the marker functions.

4.1 Setting Marker

Pressing F5 (Marker) on the main function menu, or pressing Marker displays the Marker function menu.

The Marker function menu consists of two pages, which can be toggled by pressing →.

Figure 4.1-1 Marker key

Table 4.1-1 Marker function menu

Function Key	Menu	Function
Page1	Marker	Press F5 (Marker) to display this page.
F1	Active Marker	Sets the active marker. ☞ 4.1.5 "Setting active marker"
F2	Normal	Sets the marker mode to Normal. ☞ 4.1.1 "Setting normal marker"
F3	Delta	Sets the marker mode to Delta. ☞ 4.1.2 "Setting delta marker"
F4	Fixed	Sets the marker mode to Fixed. ☞ 4.1.6 "Setting Fixed marker"
F5	Off	Sets the marker display to Off. ☞ 4.1.1 "Setting normal marker"
F6	Zone Width	Opens the Zone Width function menu. Set the frequency width for the zone marker. ☞ 4.1.3 "Setting zone marker"
F7	Relative To	Sets the reference marker when the active marker is set to Delta. ☞ 4.1.2 "Setting delta marker"

Table 4.1-1 Marker function menu (Cont'd)

Function Key	Menu	Function
F8	Next Peak	Searches for the second biggest peak after the active marker, and moves the marker so that the marker becomes the center frequency of the zone marker. ☞ 4.2.2 "Executing Next Peak search"
Page2	Marker	Press F5 (Marker) and then press to → display page 2.
F1	Marker List (On/Off)	Sets the marker list display to On/Off. ☞ 4.3 "Displaying Marker List"
F2	Marker Result	Opens the Marker Result function menu. Set the display type of the marker value. ☞ 4.1.7 "Setting Type of Result Display"
F3	Frequency Count	Opens the Frequency Count menu. ☞ 4.1.8 "Freq.Count"
F4	Marker Trace	Selects the trace to display the marker. ☞ 4.1.4 "Setting marker trace"
F6	Marker to Center Freq.	Sets the presently set marker frequency to the center frequency of the trace. ☞ 4.2.5 "Executing Marker to Center Freq. /Marker to Ref. Level"
F7	Marker to Ref. Level	Sets the presently set marker level to the reference level of the trace. ☞ 4.2.5 "Executing Marker to Center Freq. /Marker to Ref. Level"
F8	All Marker Off	Sets all the markers to Off. ☞ 4.1.1 "Setting normal marker"
Page2	Marker	Press F5 (Marker), and then press → twice to display page 2.
F6	Marker Tracking	Conducts sweep after adjusting the center frequency of trace to that of the active marker frequency. ☞ 4.2.11 "Marker tracking settings"

Zone Width function menu

Pressing F6 (Zone Width) on the Marker function menu displays the Zone Width function menu.

Table 4.1-2 Zone Width function menu

Function Key	Menu	Function
F1	Type (Zone/Spot)	Switches between the spot marker and the zone marker. ☞ 4.1.3 "Setting zone marker"
F2	Zone Width	Sets the zone marker width of the frequency domain. ☞ 4.1.3 "Setting zone marker"
F3	Couple Zone (On/Off)	Sets the Zone Width common setting On/Off. When enabled, the Type and Zone Width settings are shared among all markers. When disabled, a unique setting is possible for each marker. ☞ 4.1.3 "Setting zone marker"
F4	Spot Line (On/Off)	Sets the line display of the spot marker to On/Off. ☞ 4.1.3 "Setting zone marker"

4.1.1 Setting normal marker

Normal markers are displayed as ▼ and display the frequency (time) and level on the screen.

<Procedure>

1. Press Marker.
2. Press F2 (Normal) to display the normal markers.
3. Press F5 (Off) to stop displaying the markers.

Example: To set all the markers to Off.

<Procedure>

1. Press Marker.
2. Press → to display the second page of the Marker function menu and then press F8 (ALL Marker Off) to set all the markers to Off.

4.1.2 Setting delta marker

The frequency and level at the marker are displayed as values relative to the reference point (marker set by Relative To). If the marker that is set by Relative To is set to Off when this function is executed, the marker is set to a Fixed marker and is displayed as □ on the trace. After that, the relative values of Current marker (▼) and Fixed marker (□) are displayed.

<Procedure>

1. Press Marker.
2. Press F3 (Delta) and set delta marker.

Example: To set Relative To of marker 1 to marker 3.

<Procedure>

1. Press Marker.
2. Press F1 (Active Marker) and then press F1 (Marker1) to set the active marker to 1.
3. Press F7 (Relative To) and then press F3 (Marker3) to set Relative To to 3.

4.1.3 Setting zone marker

The area enclosed by the dashed lines in Figure 4.1.3-1 is called a zone marker. The current marker exists within this zone marker and moves to the maximum level point within the range indicated by the zone marker. The frequency (or time) and level at the current marker are displayed on the top part of the screen.

The zone marker can be moved by pressing Marker then operating the rotary knob or step key. The center frequency of the zone marker can also be directly specified from the numeric keypad.

In the frequency domain mode, the zone marker width can be set to an arbitrary value. Spot marker without width can be also set. In the time domain mode, only spot markers can be set.

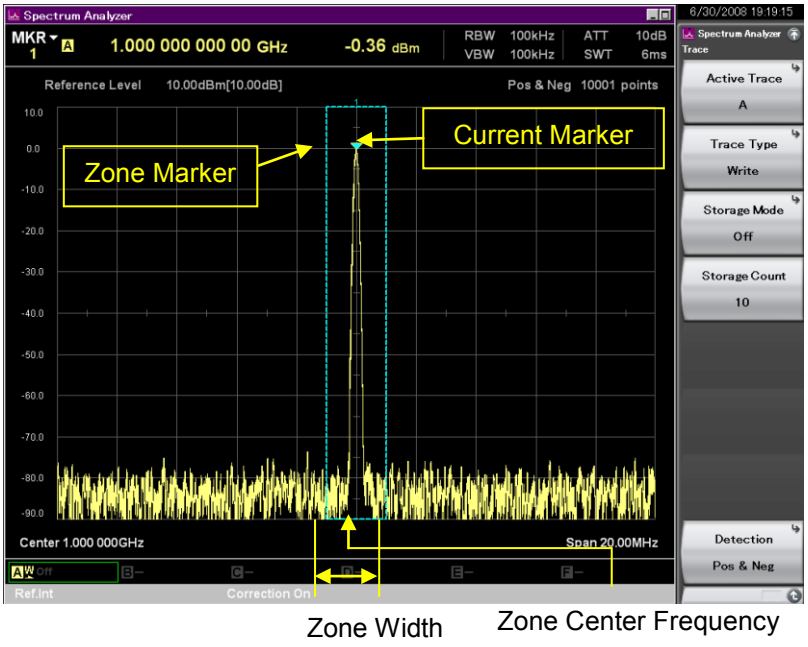


Figure 4.1.3-1 Zone marker and current marker

Example: To set the zone marker width to 10 MHz

<Procedure>

1. Press Marker.
2. Press F6 (Zone Width) to open the Zone Width function menu.
3. After pressing 1 0, press F2 (MHz) and set the zone marker width.

Example: To set the spot marker.

<Procedure>

1. Press Marker.
2. Press F6 (Zone Width) to open the Zone Width function menu.
3. Press F1 (Type) to select Spot. A spot marker will be set at the point of the center frequency of the zone marker.

Note:

When Marker Result (see 4.1.7) is set to Integration or Density, Type is fixed to Zone, Spot cannot be selected.

Example: To set the line display of the spot marker to Off.

1. Press Marker.
2. Press F6 (Zone Width) to open the Zone Width function menu.
3. Press F4 (Spot Line) to set Off.

Example: To set Couple Zone to On.

1. Press Marker.
2. Press F6 (Zone Width) to open the Zone Width function menu.
3. Press F3 (Couple Zone) and select On to set the marker widths in a lump sum.

4.1.4 Setting marker trace

The Spectrum Analyzer function can display multiple traces simultaneously. The traces for marker display can be selected by selecting a marker trace.

Example: To set the marker to trace C

<Procedure>

1. Press Marker.
2. Press F4 (Marker Trace) and select C.

4.1.5 Setting active marker

Select an active marker. You can set the position of the active marker by using the rotary knob and step key.

Example: To set the active marker to 2.
<Procedure>

1. Press Marker.
2. Press F1 (Active Marker).
3. Press F2 (Marker 2) to set the active marker to 2.

4.1.6 Setting Fixed marker

The Fixed marker is displayed as ☐ on the screen. It is fixed on the screen and has a fixed value.

Example: To set marker 3 to Fixed marker.
<Procedure>

1. Press Marker.
2. Press F1 (Active Marker) and then press F3 to set the active marker to 3.
3. Press F4 (Fixed) to set to the Fixed marker.

4.1.7 Setting Type of Result Display

The Marker Result function is used to select a type of a marker result.

Marker Result function menu

Press F2 (Marker Result) on page 2 of the Marker function menu to display the Marker Result function menu.

Table. 4.1.7-1 Marker Result function menu

Function Key	Menu	Function
F1	Integration	Displays the total power in the zone band. It is displayed in the bandwidth of power/marker.
F2	Density	Displays the power per 1 Hz in the zone band. It is displayed in power/Hz units.
F3	Peak	Displays the peak power in the zone. Displays the peak power indicated by the current marker.

This function allows you to select the power (total power, total density, and peak power) displayed in the zone marker.

Example: To display the power per 1 Hz in the zone band.
<Procedure>

1. Press Marker.
2. Press → to move to page 2 of the Marker function menu, and then press F2 (Marker Result).
3. Press F2 (Density) to set to Density.

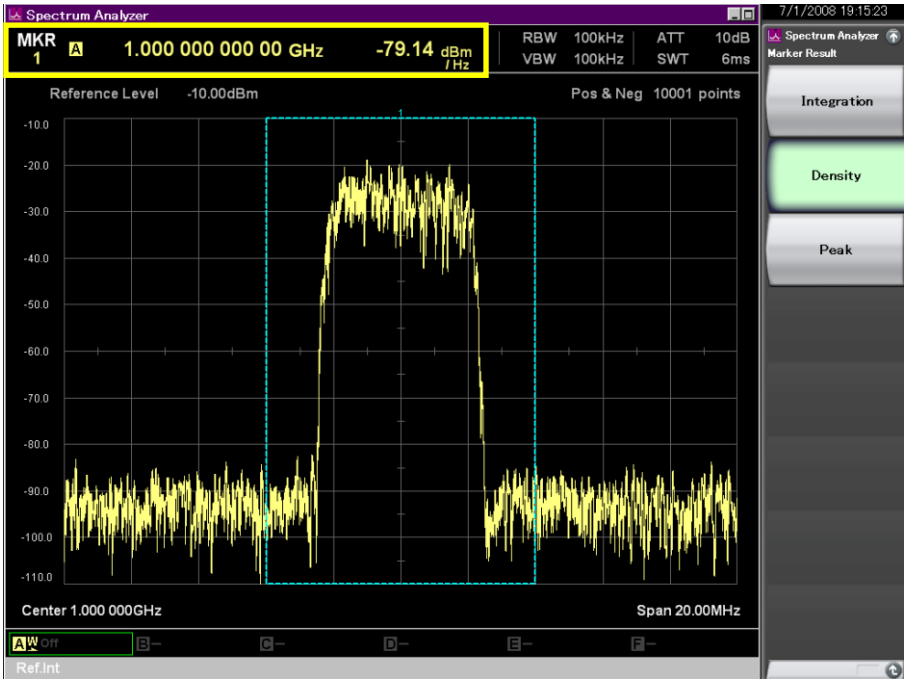


Figure 4.1.7-1 Displaying Power Density

4.1.8 Freq.Count

The Freq.Count function menu is used to set up frequency counter measurement.

Freq.Count function menu

Press F3 (Freq.Count) in page 2 of Marker function menu to display the Freq.Count function menu.

Table 4.1.8-1 Freq.Count function menu

Function Key	Menu	Function
F1	Freq. Count (On Off)	Sets whether to enable or disable frequency counter measurement.
F2	Gate Time	Sets how long to perform frequency counter measurement.

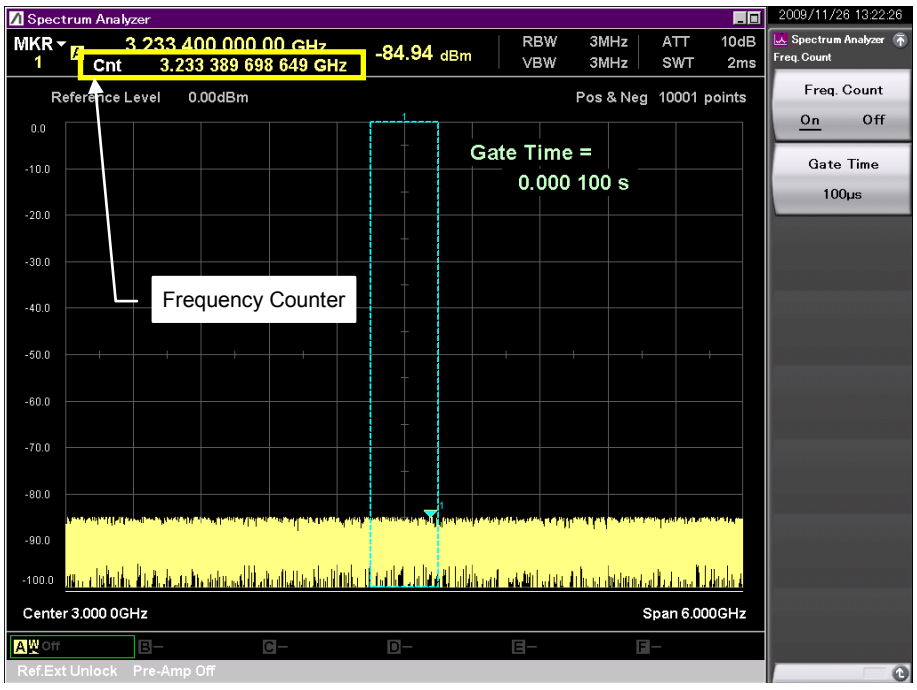


Figure 4.1.8-1 Frequency Counter display

4.2 Setting Peak Search Function

Four types of peak search function are available, Peak, Next Peak, Min, and Next Min search.

Peak Search function menu

Pressing F1 (Peak Search) on page 2 of the main function menu, or pressing Peak Search displays the Peak Search function menu.

Figure 4.2-1 Peak Search key

Table 4.2-1 Peak Search function menu

Function Key	Menu Display	Function
Page1	Peak Search	Press F1 (Peak Search) to display this page.
F1	Peak Search	Moves the marker so that the maximum level point in the measurement band becomes the center frequency of the zone marker. 4.2.1 "Executing Peak search"
F2	Next Peak	Searches for the next peak of the active marker and moves the marker so that it becomes the center frequency of the zone marker. 4.2.2 "Setting next Peak search"
F3	Marker Search Function	Opens the Marker Search function menu. Set the markers in the order of frequency or level . 4.2.6 "Executing Marker Search Function"
F5	Resolution	Sets the resolution for Next Peak and Next Min search. 4.2.3 "Setting search resolution"
F6	Threshold	Sets a threshold value to limit the level points to be searched for. 4.2.4 "Setting search threshold value"
F7	Marker to Center Freq.	Sets the active marker frequency to the center frequency. 4.2.5 "Executing Marker to Center Freq./Marker to Ref. Level"
F8	Marker to Ref. Level	Sets the active marker level to the reference level. 4.2.5 "Executing Marker to Center Freq./Marker to Ref. Level"
Page2	Peak Search	Press F1 (Peak Search) and then press → to display page 2.
F1	Power Peak Search	Moves the active marker to the position where the peak power of the zone width of the active marker becomes maximum in the measurement band. 4.2.7 "Executing Power Peak search"
F2	Next Power Peak	Searches for the next largest peak power in the zone width compared to the total power of the zone width of the active marker in the measurement band and moves the active marker 4.2.8 "Executing Next Power Peak search"
F3	Min Search	This command moves the marker so that the minimum level point in the measurement band becomes the center frequency of the zone marker. 4.2.9 "Executing Min search"

Table 4.2-1 Peak Search function menu (Cont'd)

Function Key	Menu Display	Function
F4	Next Min	This command searches for the next dip of the active marker and moves the marker so that it becomes the center frequency of the zone marker. 4.2.10 "Executing Next Min search"

Threshold function menu

Pressing F4 (Threshold) on the Peak Search function menu displays the Threshold function menu.

Table 4.2-2 Threshold function menu

Function Key	Menu Display	Function
F1	Threshold (On/Off)	Switches on/off the detection threshold value function for Peak, Next Peak, Min, and Next Min search. 4.2.4 "Setting search threshold value"
F2	Threshold (Above/Below)	Selects Above (upward search)/Below (downward search) for Peak, Next Peak, Min, and Next Min search. 4.2.4 "Setting search threshold value"
F3	Threshold Level	Sets the threshold value for Peak, Next Peak, Min, and Next Min search. 4.2.4 "Setting search threshold value"

Marker Search Function menu

Press F3 (Marker Search Function) on the Peak Search function menu to display the Marker Search function menu.

Table 4.2-3 Marker Search function menu

Function Key	Menu	Function
F1	Search Peaks Sort Y	Sorts the markers by level in relation to the peaks on the trace of the number specified in Search Peaks Number. 4.2.6 "Executing Marker Search Function"
F2	Search Peaks Sort X	Sorts the markers by frequency (time) in relation to the peaks on the trace of the number specified in Search Peaks Number. 4.2.6 "Executing Marker Search Function"
F6	Search Peaks Number	Sets the number of searches when Search Peaks Sort Y/X is executed. 4.2.6 "Executing Marker Search Function"
F7	Resolution	Sets the resolution of the search. 4.2.3 "Setting search resolution"
F8	Threshold	Sets the threshold of the search. 4.2.4 "Setting search threshold value"

4.2.1 Executing Peak search

Detects the maximum level point from the trace in the display and moves the marker.

If there are several peak points, the marker moves to the point with smallest frequency (or time) (left side of scale).

The Peak search execution procedure is as follows:
<Procedure>

1. Press Peak Search.
2. Press F1 (Peak Search) to execute Peak search.

4.2.2 Executing Next Peak search

Detects the next peak of the active marker and moves the marker.

If there are several peak points, the marker moves to the point with smallest frequency (or time) (left side of scale).

The Next Peak search execution procedure is as follows:
<Procedure>

1. Press Peak Search.
2. Press F2 (Next Peak) and execute Next Peak search.

4.2.3 Setting search resolution

This sets the peak resolution. It is used when executing Peak, Next Peak, Min, and Next Min search. Peaks below the specified resolution are not detected.

Example: To set the search resolution value to 30 dB.
<Procedure>

1. Press Peak Search.
2. Press F3 (Resolution).
3. After pressing 3 0, press F1 (dB) and set the search resolution.

4.2.4 Setting search threshold value

Specify the threshold value with the Peak detection level. This also becomes the threshold value for the Min search. The threshold value is displayed on the screen, and search upward or downward from this level can be specified.

Example: To set the search threshold value to –30 dBm or more.
<Procedure>

1. Press Peak Search.
2. Press F4 (Threshold).
3. Press F1 (Threshold) and switch to On.
4. Press F3 (Threshold Level), then press –/+ 3 0 and press F1 (dBm).
5. Press F2 (Threshold) and select “Above.”

4.2.5 Executing Marker to Center Freq./Marker to Ref. Level

The center frequency and reference level of the trace can be adjusted to match the frequency and level of the active marker.

- Marker to Center Freq. Sets the marker frequency to the center frequency.
  (Effective only when frequency span > 0)
- Marker to Ref. Level Sets the marker level to the reference level.

Example: To set the marker frequency to the center frequency

<Procedure>

1. Press Marker.
2. Press F1 (Marker to Center Freq.) on page 2 of the Marker function menu, and set the marker frequency.

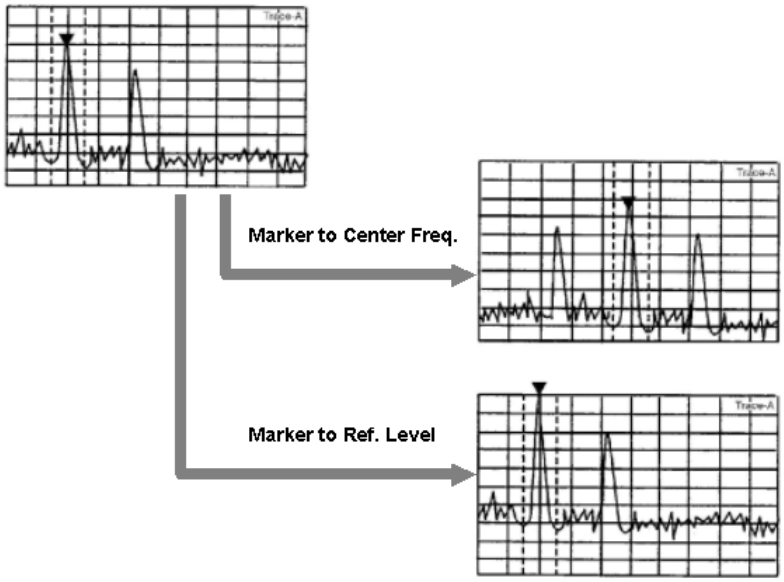


Figure 4.2.5-1 Marker to Center Freq. or Marker to Ref. Level execution

4.2.6 Executing Marker Search Function

Sorts the markers set by Search Peaks Number by frequency (time) or level.

Note:

Marker Search Function can be executed when Marker Result is set to Peak.

☞ 4.1.7 “Setting Type of Result Display”

Example: To sort three markers by level.

<Procedure>

1. Press Peak Search.
2. Press F6 (Search Peaks Number) after pressing F3 (Marker Search Function), and then press 3 to set the number of markers to 3.
3. Press F1 (Search Peaks Sort Y) to sort the markers by level.

Example: To sort the markers by frequency.

<Procedure>

1. Press Peak Search.
2. Press F3 (Marker Search Function).
3. Press F2 (Search Peaks Sort X) to sort the markers by frequency.

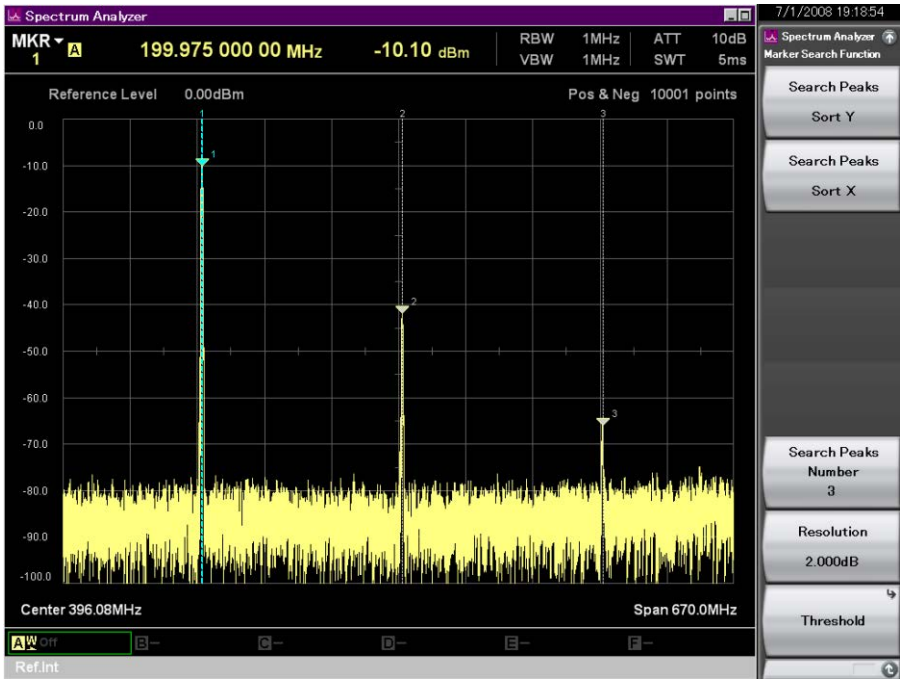


Figure 4.2.6-1 Sorting markers by level

4.2.7 Executing Power Peak search

This command moves the active marker to the position where the peak power of the zone width of the active marker becomes maximum in the measurement band.

If there are several peak points, the marker moves to the point with lowest frequency (left side of scale).

This function is not available when in the time domain mode.

Note:

When executing this function when Marker Result is Peak, Marker Result is set to Integration automatically.

4.1.7 “Setting Type of Result Display”

Execute Power Peak search as follows:

<Procedure>

1. Press Peak Search.
2. Press → to display Page 2 of the Peak Search function menu.
3. Press F1 (Power Peak Search) to conduct Power Peak search.

4.2.8 Executing Next Power Peak search

This command searches for the next largest peak power in the zone width compared to the total power of the zone width of the active marker in the measurement band and moves the active marker.
If there are several peak points, the marker moves to the point with lowest frequency (left side of scale).

This function is not available when in the time domain mode.

Note:

When executing this function when Marker Result is Peak, Marker Result is set to Integration automatically.

4.1.7 “Setting Type of Result Display”

Execute Power Peak search as follows:

<Procedure>

1. Press Peak Search.
2. Press → to display Page 2 of the Peak Search function menu.
3. Press F2 (Next Power Peak) to conduct Next Power Peak search.

4.2.9 Executing Min search

This command moves the marker so that the minimum level point in the measurement band becomes the center frequency of the zone marker.

Execute Min search as follows:
<Procedure>

1. Press Peak Search.
2. Press → to display Page 2 of the Peak Search function menu.
3. Press F3 (Min Search) to conduct Min search.

4.2.10 Executing Next Min search

This command searches for the next dip of the active marker and moves the marker so that it becomes the center frequency of the zone marker.

Execute Next Min search as follows:
<Procedure>

1. Press Peak Search.
2. Press → to display Page 2 of the Peak Search function menu.
3. Press F4 (Next Min) to conduct Next Min search.

4.2.11 Marker tracking settings

This allows you to conduct sweep after adjusting the center frequency of trace to that of the active marker frequency.

Example: To enable marker tracking function
<Procedure>

1. Press Marker.
2. To configure the settings, press F6 (Marker Tracking) on page 3 of Marker function menu.

4.3 Displaying Marker List

Displays the marker result list. The marker frequency and power are displayed on the list.

Example: To set the marker display to On.

<Procedure>

1. Press Marker.
2. After pressing → to move to page 2 of the Marker function menu, press F1 (Marker List) to set to On.

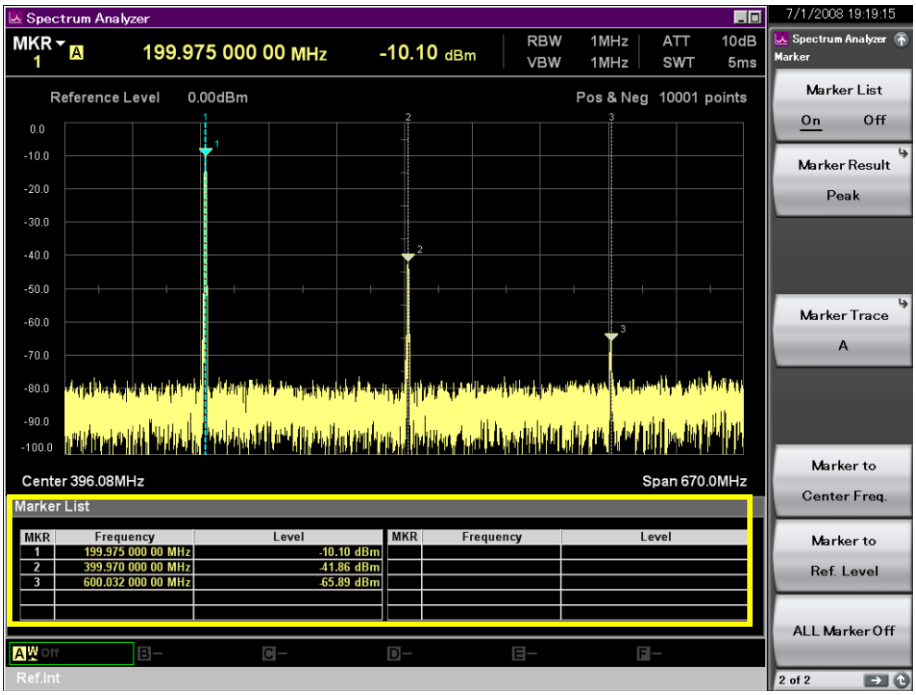


Figure 4.3-1 Displaying marker list

Table 4.3-1 Descriptions of marker list display items

Item	Description
MKR	Displays the marker number. When a number is displayed, it indicates a marker number. When Δ is displayed, it indicates the level or frequency difference between the active marker and the marker set by Relative To. When □ is displayed, it indicates a Fixed marker.
Frequency	Displays the marker frequency.
Level	Displays the marker level. The result selected in Marker Result is displayed in the units specified in Scale Unit. When Δ is displayed, the level of the active marker is displayed as a value relative to the marker set by Relative To.

Chapter 5 Trigger Function and Gate Function

This chapter describes the trigger function and the gate function.

5.1 Setting Trigger Function

Pressing F7 (Trigger/Gate) from the main function menu, or pressing Trigger/Gate displays the Trigger function menu.

The Trigger function menu consists of three pages, which can be toggled by pressing →.

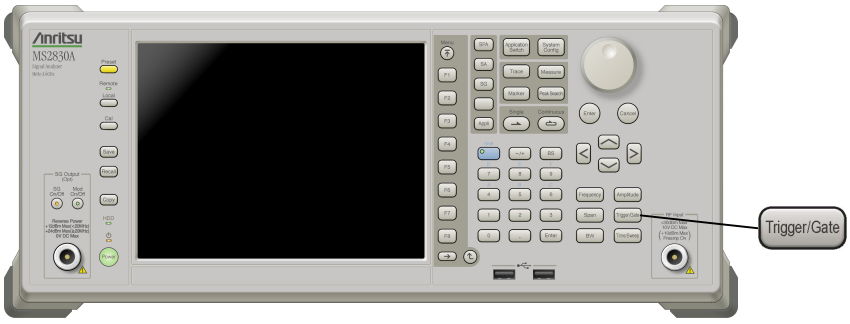


Figure 5.1-1 Trigger/Gate key

Table 5.1-1 Trigger function menu

Function Key	Menu Display	Function
Page1	Trigger	Press F7 (Trigger/Gate) to display this page.
F1	Trigger Switch (On/Off)	Enables the trigger function. ☞ 5.1.1 "Trigger sweep"
F2	Trigger Source	Selects the trigger source. ☞ 5.1.1 "Trigger sweep"
F3	Trigger Slope (Rise/Fall)	Selects the trigger detection method (rise or fall). ☞ 5.1.1 "Trigger sweep"
F4	Trigger Level (Video)	Sets the trigger level for the video trigger. ☞ 5.1.1 "Trigger sweep"
F5	Trigger Level (Wide IF Video)	Sets the trigger level for the wide IF video trigger. ☞ 5.1.1 "Trigger sweep"
F6	Trigger Hold (On/Off)	Sets whether to enable or disable the function for disabling trigger input for a fixed time from when the first trigger is input until the next. This function is not available when Video is selected for Trigger Source. ☞ 5.1.1 "Trigger sweep"
F7	Trigger Hold	Sets the fixed time to disable trigger input from when the first trigger is input until the next. This function is not available when Video is selected for Trigger Source. ☞ 5.1.1 "Trigger sweep"
F8	Trigger Delay	Sets the trigger delay time. This cannot be used for frequency domain.

Table 5.1-1 Trigger function menu (Cont'd)

Function Key	Menu Display	Function
Page2	Gate	Press F7 (Trigger/Gate), and then press → to display page 2.
F1	Gate Sweep (On/Off)	Enables the gate function. ☞ 5.2.1 "Gate sweep"
F2	Gate View* (On/Off)	Displays the gate view. ☞ 5.2.2 "Gate View"
F3	Gate View Setting	Configures settings related to the gate view. ☞ 5.2.2 "Gate View"
F4	Gate Delay	Specifies Gate Delay (delay between trigger point and gate start). ☞ 5.2.1 "Gate sweep"
F5	Gate Length	Specifies Gate Length (gate length between gate start and gate end). ☞ 5.2.1 "Gate sweep"
F6	Gate Source	Selects the gate source. ☞ 5.2.1 "Gate sweep"
F7	Gate Slope (Rise/Fall)	Selects the gate detection method (rise or fall). ☞ 5.2.1 "Gate sweep"
F8	Gate Level (Wide IF Video)	Sets the trigger level for the wide IF video trigger during gate sweep. ☞ 5.2.1 "Gate sweep"
Page3	Gate	Press F7 (Trigger/Gate), and then press → twice to display page 3.
F6	Gate Hold (On/Off)	Sets whether to enable or disable the function for disabling gate input for a fixed time from when the first gate is input until the next. ☞ 5.2.1 "Gate sweep"
F7	Gate Hold	Sets the fixed time to disable gate input from when the first gate is input until the next. ☞ 5.2.2 "Gate View"

*: With MS2830A-016/116, MS2840A-016/116 installed:

When RBW Mode is set to **CISPR**, the Gate View function cannot be set to On. Also, when the Gate View function is On, the mode cannot be set to **CISPR**.

When Detection is set to **Quasi-Peak**, **CISPR-AVG**, or **RMS-AVG**, the Gate View function cannot be set to On. Also, when the Gate View function is On, Detection cannot be set to **Quasi-Peak**, **CISPR-AVG**, or **RMS-AVG**.

5.1.1 Trigger sweep

Trigger sweep executes sweep using the specified trigger condition as the start point. A delay time until sweep start can be set through trigger delay. Trigger delay can be set only in the time domain mode.

The trigger source can be selected from the following:

- Video trigger
- Wide IF video trigger
- External trigger
- Frame trigger
- SG marker trigger

Press F7 (Trigger/Gate), and then press F2 (Trigger Source) to display the Trigger Source function menu.

Table 5.1.1-1 Trigger Source function menu

Function Key	Menu Display	Function
F1	Video	Selects Video for Trigger Source.
F2	Wide IF Video	Selects Wide IF Video for Trigger Source.
F3	External	Selects for External Trigger Source.
F4	Frame	Selects Frame for Trigger Source.
F5	SG Marker	Selects SG Marker for Trigger Source.
F8	Frame Sync Setup	Sets the Frame Trigger starting source if Frame is specified for Trigger Source or Gate Source (and is used for both Trigger and Gate). ☞ Table 5.1.1-2

(1) Video trigger

Trigger sweep starts in synchronization with the rise or fall of the waveform. A trigger level indicator showing the trigger level is displayed on the screen.

Setting range and resolution for trigger level (video)

Setting range:	–150 to +50 dBm	(Log scale)
	0 to 100%	(Lin scale)
Resolution:	1 dBm	(Log scale)
	1%	(Lin scale)

Example: To set the trigger level to +40 dBm, and trigger slope to Rise

<Procedure>

1. Press Trigger/Gate.
2. Press F2 (Trigger Source) and then press F1 (Video).
3. Press ↩ to return to the previous menu.
4. Press F4 (Trigger Level (Video)).
5. After pressing 4 0, press F1 (dBm) to set the trigger level.
6. Press F3 (Trigger Slope) and select Rise.

(2) Wide IF video trigger
An IF signal with a wide passing band of about 50 MHz or greater is detected, and sweep starts in synchronization with either the rise or fall of the detected signal.

Setting range and resolution for trigger level (wide IF video trigger)

Setting range:	–60 to +50 dBm
Resolution:	1 dBm

Example: To set the trigger level to –30 dBm and trigger slope to Fall
<Procedure>

1. Press Trigger/Gate.
2. Press F2 (Trigger Source) and then press F2 (Wide IF Video).
3. Press ↑ to return to the previous menu.
4. Press F5 (Trigger Level (Wide IF Video)).
5. After pressing –/+ 3 0, press F1 (dBm) to set the trigger level.
6. Press F3 (Trigger Slope) and select Fall.

(3) External trigger
Sweep starts in synchronization with the rise or fall of the signal input via the SA Trigger Input connector.

Example: To set the trigger source to external and trigger slope to Rise
<Procedure>

1. Press Trigger/Gate.
2. Press F2 (Trigger Source) and select F3 (External).
3. Press ↑ to return to the previous menu.
4. Press F3 (Trigger Slope) and select Rise.

(4) Frame Trigger

An equipment-internal trigger signal is used to generate a trigger and start the sweep. The generation period (Period) and offset time (Offset) for the trigger signal can be set. It is also possible to resynchronize the trigger signal with either the Wide IF Video signal or an external trigger.

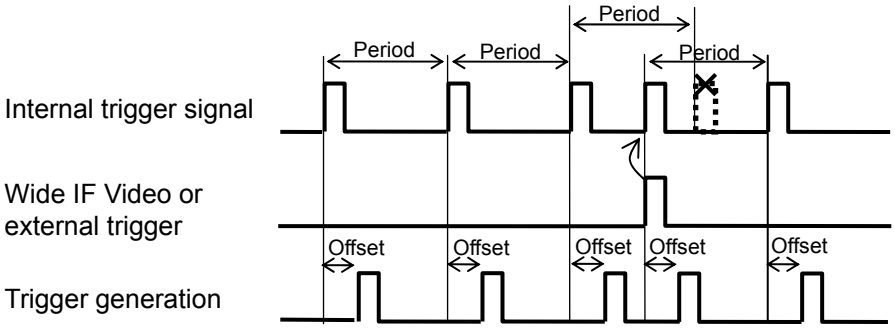


Figure 5.1.1-1 Frame trigger

Example:

To set the trigger to the wide IF video trigger, the frame trigger period to 100 μs, and the frame sync offset to 300 μs.

<Procedure>

1. Press Trigger/Gate.
2. Press F2 (Trigger Source) on page 1 of the Trigger function menu, and then press F4 (Frame).
3. Press F8 (Frame Sync Setup), and then press F2 (Wide IF Video).
4. Press F7 (Frame Trigger Period), and then press 1 0 0, and then press F3 (μs) to set frame trigger period.
5. Press F8 (Frame Sync Offset), and then press 3 0 0, and then press F3 (μs) to set frame sync offset.

Pressing F8 (Frame Sync Setup) on the Trigger function menu displays the Frame Sync Setup function menu.

Table 5.1.1-2 Frame Sync Setup function menu

Function Key	Menu Display	Function
F1	Off	Captures waveforms according to the equipment-internal trigger signal.
F2	Wide IF Video	Captures waveforms according to the equipment-internal trigger signal. The trigger signal is resynchronized according to the Wide IF Video signal.
F3	External	Captures waveforms according to the equipment-internal trigger signal. The trigger signal is resynchronized according to an external trigger.
F7	Frame Trigger Period	Sets the generation period for the frame trigger signal.
F8	Frame Sync Setup	Sets the offset time from when a trigger signal (the equipment-internal trigger signal, Wide IF Video signal, or external trigger signal) is generated until a trigger actually occurs.

(5) SG marker trigger

Note:

This function can be set only when MS2830A-020/120/021/121, MS2840A-020/120/021/121 Vector Signal Generator (hereinafter, referred to as "Vector Signal Generator Option") is installed.

Sweep starts in synchronization with the rise or fall of the marker signal output of the Vector Signal Generator Option. This function allows measurement in synchronization with the output signal of the Option 020/120, 021/121. For the marker signal settings, refer to the *MS2830A/MS2840A Vector Signal Generator Operation Manual (Operation)*.

<Procedure>

1. Press Trigger/Gate.
2. Press F2 (Trigger Source) and then press F5 (SG Marker).
3. Press ↑ to return to the previous menu.
4. Press F3 (Trigger Slope) and select either Rise or Fall.

5.2 Setting Gate Function

5.2.1 Gate sweep

Gate sweep executes sweep only for the length of time specified with the gate length. The sweep start point is determined by adding a delay time specified with the gate delay to the time when the trigger condition is met.

The gate source can be selected from the following:

- Wide IF video trigger
- External trigger
- Frame trigger
- SG marker trigger

Setting range and resolution for gate delay

Setting range: 0 to 1 s
Resolution: 20 ns

Setting range and resolution for gate length

Setting range: 50 µs to 1 s
Resolution: 20 ns

Pressing F7 (Trigger/Gate), → to display page 2, and then pressing F6 (Gate Source) displays the Gate Source function menu.

Table 5.2.1-1 Gate Source function menu

Function Key	Menu Display	Function
F1	Wide IF Video	Selects Wide IF Video for Gate Source.
F2	External	Selects External for Frame Sync Source.
F3	Frame	Selects Frame for Gate Source.
F4	SG Marker	Selects SG Marker for Gate Source.
F8	Frame Sync Setup	Sets the Frame Trigger starting source for when Frame is specified as Trigger Source or Gate Source (and is used for both Trigger and Gate). ☞Table 5.2.1-2

(1) Wide IF video trigger
An IF signal with a wide passing band of approximately 50 MHz or greater is detected and sweep starts in synchronization with either the rise or fall of that signal.

Example: To set the gate delay to 100 ns, gate length to 500 μs, and gate level to –30 dBm

<Procedure>

1. Press Trigger/Gate.
2. Press F1 (Gate Sweep) from page 2 of the Trigger function menu, and select "On."
3. Press F6 (Gate Source) and press F1 (Wide IF Video).
4. Press ↩ to return to the previous menu.
5. Press F4 (Gate Delay), press 1 0 0, and then press F4 (ns).
6. Press F5 (Gate Length), press 5 0 0, and then press F3 (μs).
7. Press F8 (Gate Level (Wide IF Video)), press –/+ 3 0, and then press F1 (dBm).

Setting range and resolution for gate level (wide IF video trigger)

Setting range:	–60 to +50 dBm
Resolution:	1 dBm

(2) External trigger

Sweep is executed only for the gate length time, using the rise or fall of the signal input to the External Input connector as the start point.

Example: To set the gate delay to 100 μs, gate length to 300 μs, and gate slope to Fall

<Procedure>

1. Press Trigger/Gate.
2. Press F6 (Gate Source) from page 2 of the Trigger function menu, and then press F2 (External).
3. Press ↑ to return to the previous menu.
4. Press F4 (Gate Delay), press 1 0 0, and then press F3 (μs) and set the gate delay.
5. Press F5 (Gate Length), press 3 0 0, and then press F3 (μs) and set the gate length.
6. Press F7 (Gate Slope) and select Fall.

(3) Frame trigger

An equipment-internal trigger signal is used to generate a trigger and start the sweep. The generation period (Period) and offset time (Offset) for the trigger signal can be set. It is also possible to resynchronize the trigger signal with either the Wide IF Video signal or an external trigger.

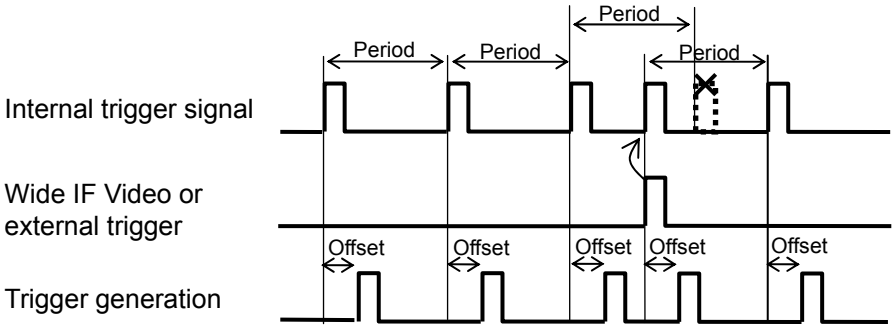


Figure 5.2.1-1 Frame trigger

Example:

To set the trigger to the wide IF video trigger, the frame trigger period to 100 μs, and the frame sync offset to 300 μs.

<Procedure>

1. Press Trigger/Gate.
2. Press F6 (Gate Source) on page 2 of the Trigger function menu, and then press F3 (Frame).
3. Press F8 (Frame Sync Setup), and then press F2 (Wide IF Video).
4. Press F7 (Frame Trigger Period), and then press 1 0 0, and then press F3 (μs) to set frame trigger period.
5. Press F8 (Frame Sync Offset), and then press 3 0 0, and then press F3 (μs) to display frame sync offset.

Pressing F8 (Frame Sync Setup) on the Gate Source function menu displays the Frame Sync Setup function menu.

Table 5.2.1-2 Frame Sync Setup function menu

Function Key	Menu Display	Function
F1	Off	Captures waveforms according to the equipment-internal trigger signal.
F2	Wide IF Video	Captures waveforms according to the equipment-internal trigger signal. The trigger signal is resynchronized according to the Wide IF Video signal.
F3	External	Captures waveforms according to the equipment-internal trigger signal. The trigger signal is resynchronized according to an external trigger.
F7	Frame Trigger Period	Sets the generation period for the frame trigger signal.
F8	Frame Sync Setup	Sets the offset time from when a trigger signal (the equipment-internal trigger signal, Wide IF Video signal, or external trigger signal) is generated until a trigger actually occurs.

(4) SG marker trigger

Note:

This function can be set only when Vector Signal Generator Option is installed.

Gate sweep starts in synchronization with the rise or fall of the marker signal output from MS2830A-020/120/021/121 or MS2840A-020/120/021/121. Measurement can be done in synchronization with the output signal through this function. For the marker signal settings, refer to the *MS2830A/MS2840A Vector Signal Generator Operation Manual (Operation)*.

Example: To set the gate delay to 200 μs, gate length to 100 ms, and gate slope to Rise.

<Procedure>

1. Press Trigger/Gate.
2. Press F6 (Gate Source) from page 2 of the Trigger function menu, and then press F3 (SG Marker).
3. Press ↑ to return to the previous menu.
4. Press F4 (Gate Delay), press 2 0 0, and then press F3 (μs) and set the gate delay.
5. Press F5 (Gate Length), press 1 0 0, and then press F2 (ms) and set the gate length.
6. Press F7 (Gate Slope) and select Rise.

5.2.2 Gate View

This section describes the gate view. An assistant view (the gate view) for setting up the gate sweep segment is displayed on the lower part of the screen when Gate View is set to On. By using the gate view, you can set up the gate sweep segment while checking the spectrum.

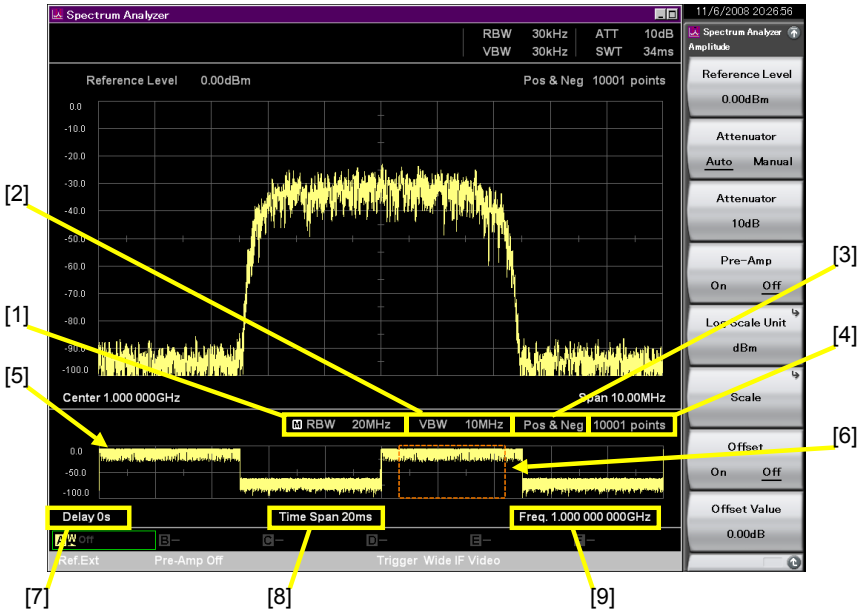


Figure 5.2.2-1 Gate View

Table 5.2.2-1 Displayed items for Gate View

No.	Item	Descriptions
[1]	RBW	Displays the resolution bandwidth (RBW).
[2]	VBW	Displays the video bandwidth (VBW).
[3]	Detection mode	Displays the detection mode.
[4]	Number of trace points	Displays the number of trace points.
[5]	Time domain waveform	Displays the time domain waveform.
[6]	Gate sweep segment	Displays the gate sweep segment as an orange dashed line.
[7]	Trigger delay	Displays the trigger delay.
[8]	Time span	Displays the time span (sweep time).
[9]	Center Frequency	Displays the center frequency.

Pressing F3 (Gate View Setting) on page 2 of the Trigger function menu displays the Gate View Setting function menu.

This menu consists of two pages that are toggled by pressing →.

Table 5.2.2-2 Gate View Setting function menu

Function Key	Menu Display	Function
Page1	Gate View Setting	Press F3 (Gate View Setting) to display this page.
F1	Sweep Time	Sets the sweep time. The specified time is the display time span for the gate view, not the segment in which the gate sweep is executed. For details about the gate sweep segment, see Section 5.2.1 "Gate Sweep."
F2	RBW (Auto/Manual)	Selects auto setting or manual setting for the resolution bandwidth (RBW). 3 MHz is set for RBW when the auto setting is selected. The setting of RBW Value is set for the resolution bandwidth when the manual setting is selected.
F3	RBW Value	Sets the resolution bandwidth (RBW). Select any one of the followings: 30 Hz, 100 Hz, 300 Hz, 500 Hz, 1 kHz, 3 kHz, 10 kHz, 30 kHz, 50 kHz, 100 kHz, 300 kHz, 1 MHz, 2 MHz, 3 MHz, 5 MHz, 10 MHz, 20 MHz, 31.25 MHz*

* Available when MS2830A-005/105/007, MS2840A-005/105 is installed.

Table 5.2.2-2 Gate View Setting function menu (Cont'd)

Function Key	Menu Display	Function
F4	VBW (Auto/Manual)	Selects auto setting or manual setting for the video bandwidth (VBW). The value that is the same as or closest to the resolution bandwidth (RBW) is set when Auto (the auto setting) is selected. The setting of VBW Value is set for the video bandwidth (VBW) when Manual (the manual setting) is selected. This menu item is disabled when Detection is set to RMS.
F5	VBW Value	Sets the video bandwidth (VBW). This menu item is disabled when Detection is set to RMS. VBW Mode can be set on the BW function menu. ☞ 2.5.3 Setting Video VBW/Power VBW
F6	Detection	Sets the detection mode.
F7	Trace Point	Sets the number of trace points.
F8	Couple Time/Frequency Domain	Sets whether to couple the time domain parameters and frequency domain parameters. ☞ 2.3.7 Setting Whether To Couple Time Domain Parameters and Frequency Domain Parameters
Page2	Gate View Setting	Press F3 (Gate View Setting), and then press → to display page 2.
F1	Gate View Frequency Mode (Auto/Manual)	Selects auto setting or manual setting for the center frequency. The center frequency for the frequency domain is set when Auto (the auto setting) is selected. The setting of Gate View Frequency is set when Manual (the manual setting) is selected.
F2	Gate View Frequency	Sets the center frequency.
F5	Reference Level	Sets the reference level when Spurious Emission is set to On. The reference level for the frequency domain is set and this menu item is disabled when Spurious Emission is set to Off.
F6	Attenuator (Auto/Manual)	Selects the auto setting or manual setting for the attenuator when Spurious Emission is set to On. The attenuator setting mode (Auto or Manual) for the frequency domain is selected and this menu item is disabled when Spurious Emission is set to Off.

Table 5.2.2-2 Gate View Setting function menu (Cont'd)

Function Key	Menu Display	Function
F7	Attenuator	Sets the attenuator when Spurious Emission is set to On. The attenuator for the frequency domain is set and this menu item is disabled when Spurious Emission is set to Off.
F8	Pre-Amp (On/Off)	Sets Pre-Amp function On/Off when Spurious Emission is set to On. The Pre-Amp On/Off setting for the frequency domain is set and this menu item is disabled when Spurious Emission is set to Off. Moreover, this menu item is also disabled when the MS2830A-008/108/068/168 or MS2840A-008/108/068/168/069/169 Preamplifier is not installed.

Chapter 6 Measure Function

This chapter describes the Measure function of the Spectrum Analyzer function.

6.1 Selecting Measure Function

Pressing F2 (Measure) on page 2 of the main function menu, or pressing Measure displays the Measure function menu.

Figure 6.1-1 Measure key

Table 6.1-1 Measure function menu

Function Key	Menu Display	Function
Page1	Measure	Press [Measure] to display this page.
F1	ACP	Measures the leakage power of the adjacent channels. ☞ 6.2 Adjacent Channel Leakage Power Measurement (ACP)
F2	Channel Power	Measures a power of the specified Frequency Band. Sets channel center frequency, channel bandwidth, and filter. ☞ 6.4 Channel Power Measurement (Channel Power)
F3	OBW	Measures Occupied bandwidth. Sets dB value by Method, % power of N% method, and X dB method. ☞ 6.5 Occupied Bandwidth Measurement (Occupied Bandwidth)
F4	Spectrum Emission Mask	Executes the Spectrum Emission Mask measurement. Sets the frequency domain standard line and judges quality relative to the standard. ☞ 6.6 Spectrum Emission Mask Measurement (Spectrum Emission Mask)
F5	Spurious Emission	Executes the Spurious Emission measurement. ☞ 6.7 Spurious Emission Measurement
F7	Burst Average Power	Measures the average power within a burst. ☞ 6.3 Burst Average Power Measurement
F8	Standard	Automatically sets the parameters according to the communication method, through specification of the input signal communication method. When the function menu of a measure function is entered when other than OFF is selected, the parameters are loaded automatically according to the communication method. Automatic parameter setting is not done. ☞ Appendix D "Standard Parameter List"
Page2	Measure	[Press [Measure] to display this page, and press [→] to display this page.
F1	TOI	Measured the two-tone third order intermodulation distortion ☞ 6.8 Two-tone Third Order Intermodulation Distortion
F8	Standard	Same function as the Page 1.

Note:

With MS2830A-016/116, MS2840A-016/116 installed:

When RBW Mode is set to **CISPR**, the Measure function cannot be set to On. Also, when the Measure function is On, the mode cannot be set to **CISPR**.

When Detection is set to **Quasi-Peak**, **CISPR-AVG**, or **RMS-AVG**, the Measure function cannot be set to On. Also, when the Measure function is On, Detection cannot be set to **Quasi-Peak**, **CISPR-AVG**, or **RMS-AVG**.

6.2 Adjacent Channel Leakage Power Measurement (ACP)

Pressing F1 (ACP) on the Measure function menu displays the ACP function menu.

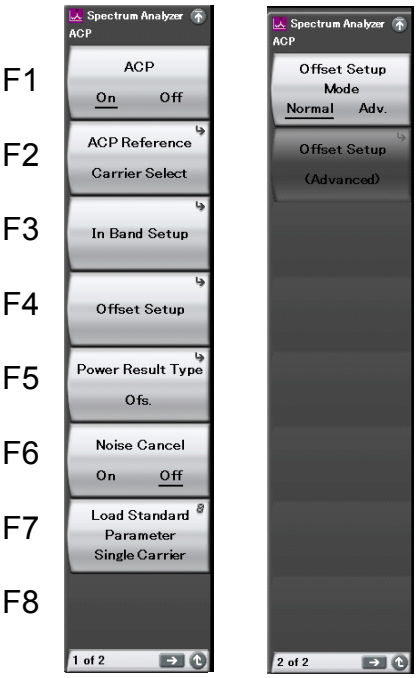


Figure 6.2-1 ACP function menu

Table 6.2-1 ACP function menu

Function Key	Menu Display	Function
Page1	ACP	Press F1 (ACP) to display this page.
F1	ACP (On/Off)	The other Measure functions are set to off when ACP is set to On.
F2	ACP Reference	Sets the reference power. Span Total: Uses the integral power on the entire screen as a reference. Carrier Total: Uses the total value of all carrier power as a reference. Both Sides of Carriers: The carrier power of the largest carrier number is used as a reference for the upper offset, while the carrier power of the smallest carrier number is used as reference. Carrier Select: Carrier number used as a reference when the reference of the relative level display for Adjacent Channel Power measurement is set to Carrier.
F3	In Band Setup	Configures settings for In Band. ☞ Table 6.2-2
F4	Offset Setup	Configures settings for the Offset Channel. ☞ Table 6.2-3 Use when Offset Setup Mode is Normal.
F5	Power Result Type (Carrier/Ofs/all.)	Switches the power result display. Carrier power is displayed when Carrier is selected, Offset Channel power is displayed when Ofs. is selected and both Carrier power and Offset Channel power are displayed when All is selected.
F6	Noise Cancel (On/Off)	Sets the noise canceling function On/Off. Measures the internal noise of this instrument and deducts the noise from the measurement result, when executed. This function is available only when Standard Parameter is set. Note: The internal noise may not be measured properly when the internal signal is high.
F7	Load Standard Parameter	When "Standard" is set to other than "Off," the measurement parameters are read according to the selected communication method. ☞ Appendix D "Standard Parameter List"

Table 6.2-1 ACP function menu (Cont'd)

Function Key	Menu Display	Function
Page2	ACP	Press F1 (ACP), and then press → to display page 2.
F1	Offset Setup Mode	Set either the Normal or Adv. mode with different Offset setting contents. When Adv. is selected, the measurement results graph display changes because the settable Offset increases.
F2	Offset Setup (Advanced)	This performs Offset Channel related settings. It can be used when the Offset Setup Mode is Adv.

Pressing F3 (In Band Setup) in the ACP function menu displays In the Band Setup function menu.

Table 6.2-2 In Band Setup function menu

Function Key	Menu Display	Function
F1	Carrier Number	Sets the number of carriers.
F2	In Band Center	Sets the center frequency of In Band.
F3	Carrier Spacing	Sets an interval between carriers.
F4	Carrier BW	Sets a bandwidth of a carrier.
F7	Filter Type	Sets a filter type of a carrier. Options: Rect, Nyquist, Root Nyquist.
F8	Roll-off Factor	Sets a roll-off factor. Available only when Nyquist or Root Nyquist is selected in Filter Type.

Pressing F4 (Offset Setup) in the ACP function menu displays Offset Setup function menu. The Offset Setup function menu consists of two pages. Press → to change the page.

Table 6.2-3 Offset Setup function menu

Function Key	Menu Display	Function
Page1	Offset Setup	Press F4 (Offset Setup) to display this page.
F1	Ch BW	Sets a bandwidth of Offset Channel.
F2	Filter Type	Sets a filter type of Offset Channel. Options: Rect, Nyquist, Root Nyquist.
F3	Roll-off Factor	Sets a roll-off factor. Available only when Nyquist or Root Nyquist is selected in Filter Type.
Page2	Offset Setup	Press F4 (Offset Setup), and then press → to display page 2.
F1	Offset-1 (On/Off)	Sets On/Off of Offset Channel 1.
F2	Offset-1	Sets Offset frequency of Offset Channel 1.
F3	Offset-2 (On/Off)	Sets On/Off of Offset Channel 2.
F4	Offset-2	Sets Offset frequency of Offset Channel 2.
F5	Offset-3 (On/Off)	Sets On/Off of Offset Channel 3.
F6	Offset-3	Sets Offset frequency of Offset Channel 3.

The Offset Setup (Advanced) function menu consists of 8 pages that are toggled by pressing (→).

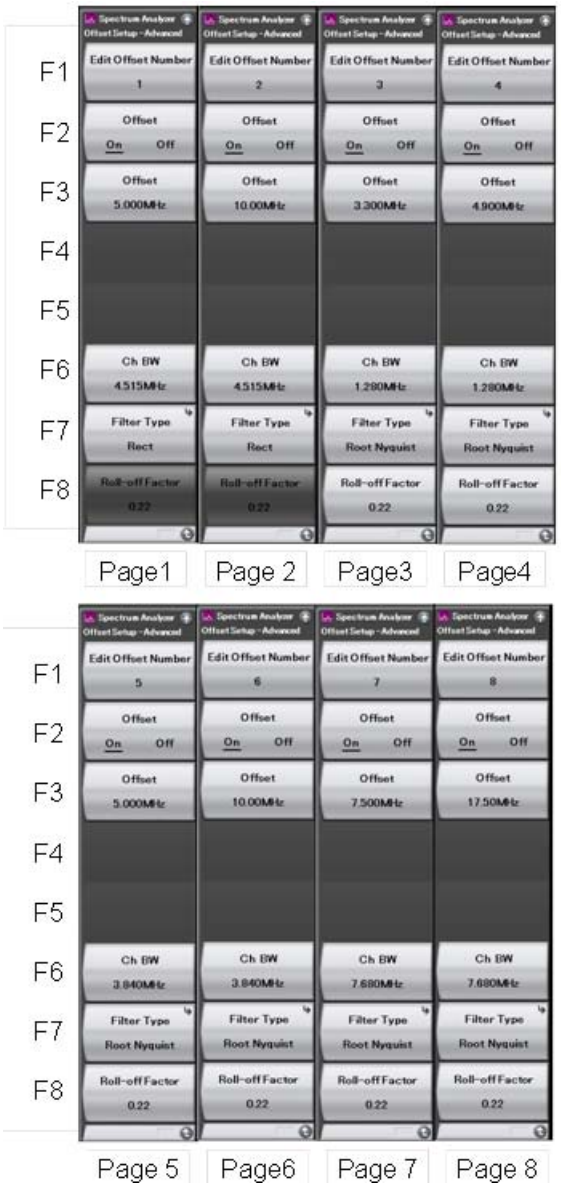


Figure 6.2-2 Offset Setup (Advanced) function menu

Table 6.2-4 Offset Setup (Advanced) function menu

Function Key	Menu Display	Function
F1	Edit Offset Number	Selects the Offset Number to be edited. Range: 1 to 8
F2	Offset (On/Off)	Sets the selected Offset Channel On/Off.
F3	Offset	Sets the offset frequency of the selected Offset Channel.
F6	Ch BW	Sets the bandwidth of the selected Offset Channel.
F7	Filter Type	Sets the filter type of the selected Offset Channel. Range: Rectangular, Nyquist, Root Nyquist
F8	Roll-off Factor	Sets the roll-off factor of the selected Offset Channel. This is available only when Nyquist or Root Nyquist is selected for the Filter Type.

The display items for the measurement results when Power Result Type (Table 6.2-1) is set to Offset are described below.

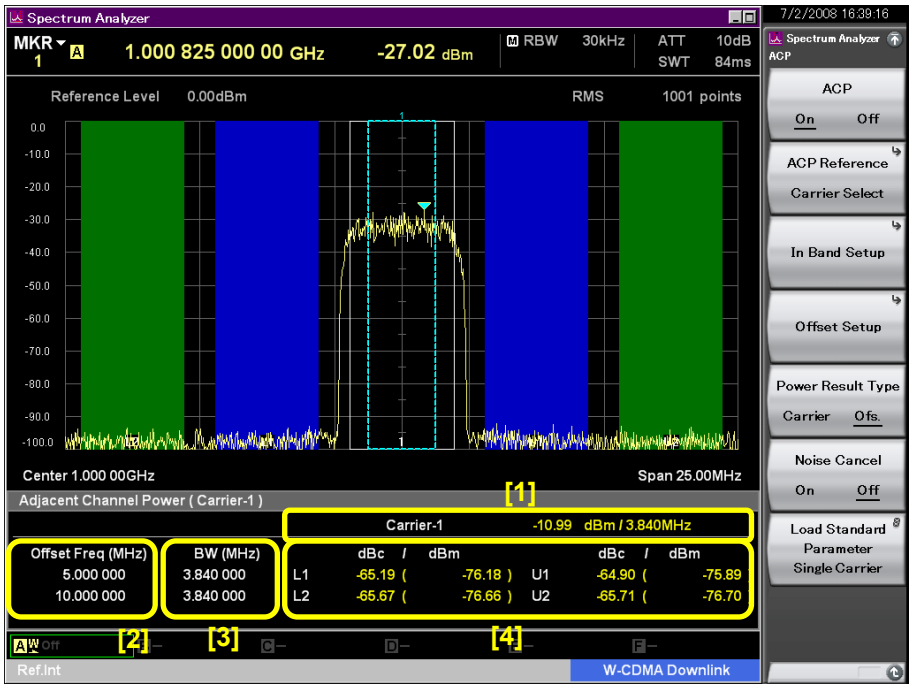


Figure 6.2-3 Display items for measurement result

Table 6.2-5 Display items for measurement result

No.	Display	Description
[1]	Span Total/ Carrier Total Carrier-X/	Displays the integral power in the screen display band when “ACP Reference” is “Span Total,” or the integral power in Carrier when “ACP Reference” is “Carrier Total.” Displays the selected carrier power when “ACP Reference” is “Carrier Select”. Displays the carrier power on both sides when “ACP Reference” is “Both Sides of Carriers”.
[2]	Offset Freq (MHz)	Displays the offset frequency setting value.
[3]	BW (MHz)	Displays the channel bandwidth setting value.
[4]	L1/L2/U1/U2	Displays the power of the Offset Channel bandwidths using Offset-1 to -3 as the center and the relative values in relation to the reference power selected in ACP reference. Also displays in parentheses the absolute power of the Offset channel bandwidth with Offset-1 to -3 as the center.

The display items for the measurement results when Power Result Type (Table 6.2-1) is set to Carrier are described below.

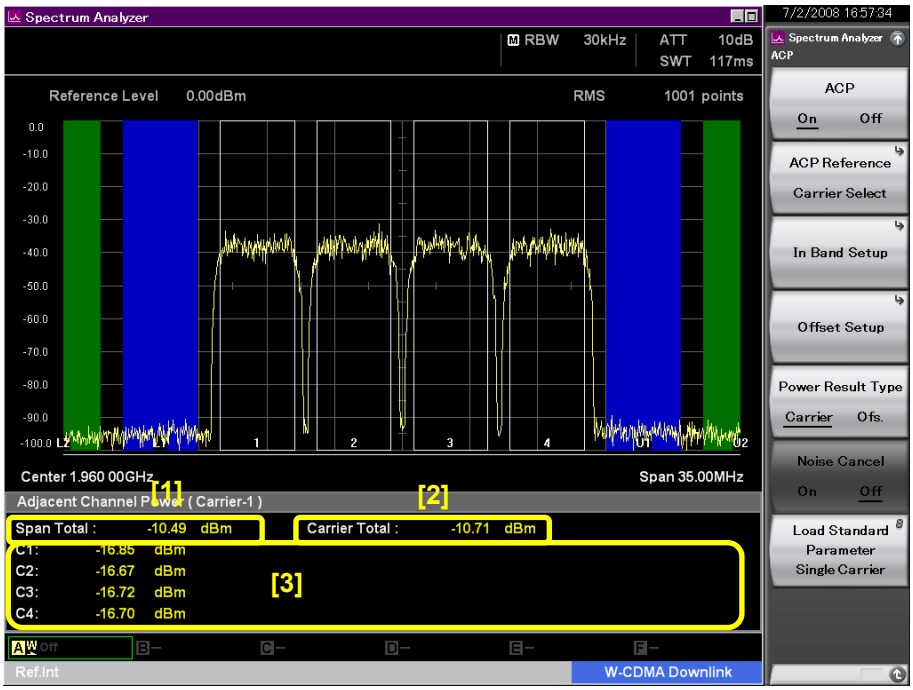


Figure 6.2-4 Display items for the measurement results

Table 6.2-6 Display items for the measurement results

No.	Display	Description
[1]	Span Total	Displays the integral power in the screen display band. Displays the power irrespective of the setting of the ACP reference.
[2]	Carrier Total	Displays the integral power of the carrier set in Carrier Number. Does not display the power when ACP Reference is set to Span Total.
[3]	Cx (x: Carrier Number)	Displays each power of all the carriers set in Carrier Number. Does not display the power when ACP Reference is set to Span Total.

6.3 Burst Average Power Measurement

Pressing F7 (Burst Average Power) on the Measure function menu displays the Burst Average Power function menu.

Table 6.3-1 Burst Average Power function menu

Function Key	Menu Display	Function
F1	Burst Average Power (On/Off)	The other Measure functions are set to Off when Burst Average Power is set to On.
F2	Start Time	Sets the start position (time) of the measurement interval.
F3	Stop Time	Sets the stop position (time) of the measurement interval.
F6	Noise Cancel (On/Off)	Sets the noise canceling function On/Off. Measures the internal noise of the MS2830A/MS2840A and deducts the measured noise from the measurement result, when executed. This function is available only when Standard Parameter is set. Note: The internal noise may not be measured properly when the internal signal is high.
F7	Load Standard Parameter	When "Standard" is set to other than Off, the measurement parameters are read according to the communication method selected in Standard. Appendix D "Standard Parameter List"

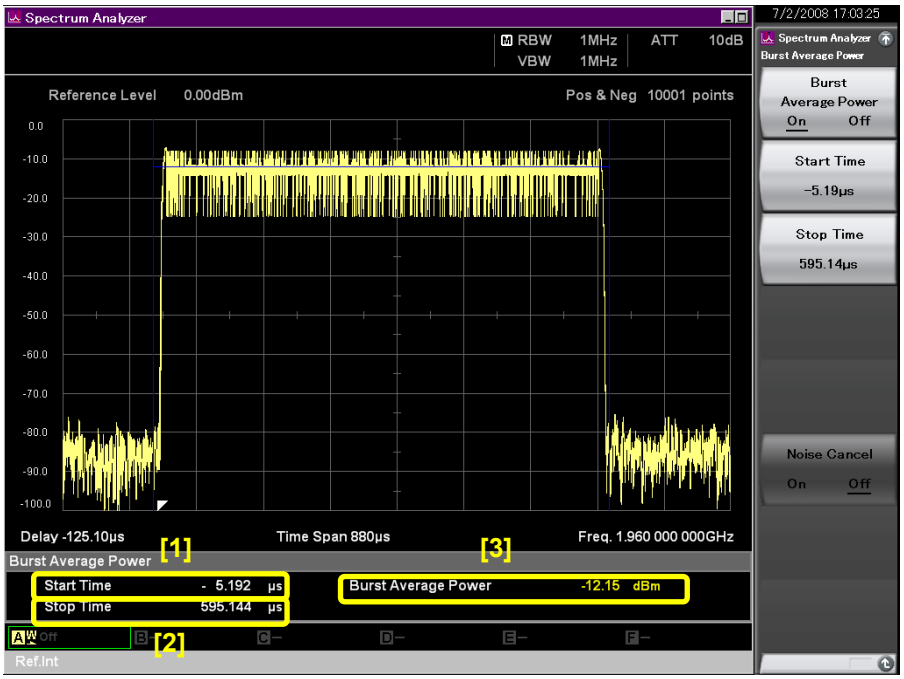


Figure 6.3-1 Display items for measurement result

Table 6.3-2 Display items for measurement result

No.	Display	Description
[1]	Start Time	Displays the start position (time) of the measurement interval.
[2]	Stop Time	Displays the stop position (time) of the measurement interval.
[3]	Burst Average Power	Displays the average power of the interval specified with Start Time and Stop Time.

6.4 Channel Power Measurement (Channel Power)

Press F2 (Channel Power) on the Measure function menu to display the Channel Power function menu.

Table 6.4-1 Channel Power function menu

Function Key	Menu Display	Function
F1	Channel Power (On/Off)	The other Measure functions are set to Off when Channel Power is set to On.
F2	Channel Center	Sets the channel center frequency.
F3	Channel Width	Sets the channel bandwidth.
F4	Filter Type	Sets a filter type. Selects from Rect., Nyquist, and Root Nyquist.
F5	Roll-off Factor	Sets a roll-off factor. Available only when Nyquist or Root Nyquist is selected in Filter Type.
F7	Load Standard Parameter	When Standard is set to other than Off, the measurement parameters are read according to the communication method selected in Standard. Appendix D “Standard Parameter List”

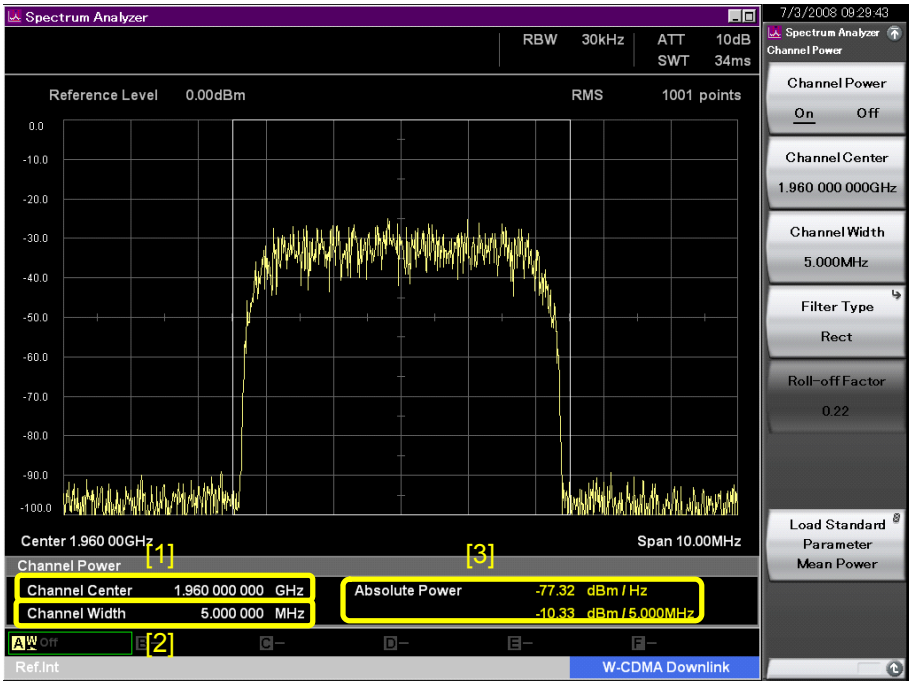


Figure 6.4-1 Display items for measurement results

Table 6.4-2 Display items for measurement results

No.	Display	Description
[1]	Channel Center	Displays the setting value of the channel center frequency.
[2]	Channel Width	Displays the setting value of the channel bandwidth.
[3]	Absolute Power	Displays the absolute power per 1 Hz within the channel band and the integral power within the channel band.

6.5 Occupied Bandwidth Measurement (Occupied Bandwidth)

Press F3 (Occupied Bandwidth) on the Measure function menu to display the Occupied Bandwidth function menu.

Table 6.5-1 Occupied Bandwidth function menu

Function Key	Menu Display	Function
F1	OBW (On/Off)	The other Measure functions are set to Off when OBW is set to On.
F2	Method (N%/XdB)	Selects a measurement method. Selects X dB Down mode or N% of Power mode. ● X dB Down mode OBW is the width between the two points down by X dB from the peak of the trace data. ● N% of Power mode The total power of the trace data on the screen is 100%, and OBW is the width between the two points which have power corresponding to N%.
F3	N% Ratio	Enters % power in the N% of Power mode.
F4	XdB Value	Enters dB value in the X dB Down mode.
F7	Load Standard Parameter	When "Standard" is set to other than "Off," the measurement parameters are read according to the communication method selected in Standard. Appendix D "Standard Parameter List"

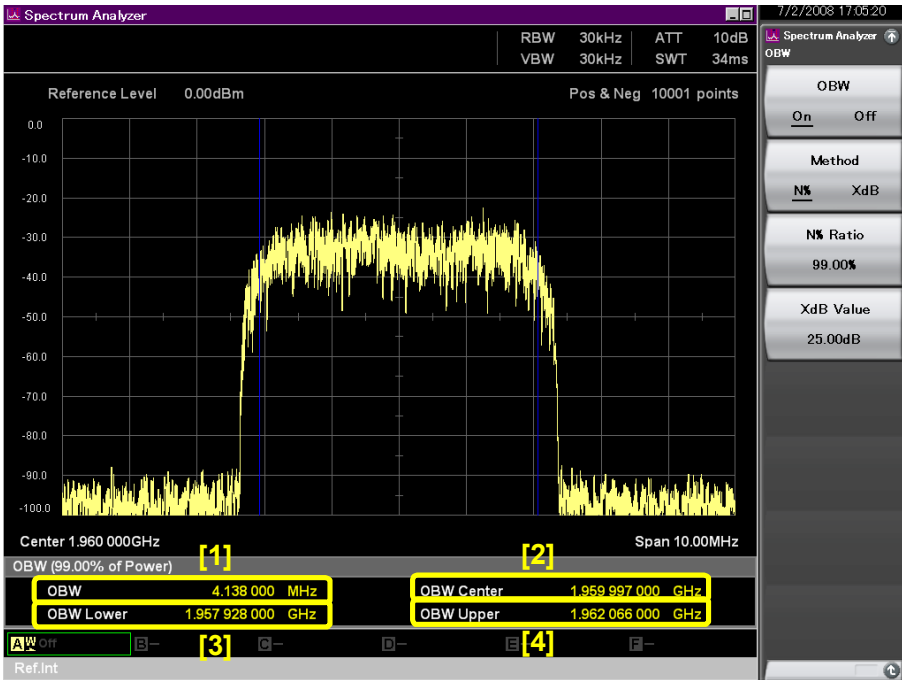


Figure 6.5-1 Display items for measurement results

Table 6.5-2 Display items for measurement results

No.	Display	Description
[1]	OBW	Displays the occupied bandwidth.
[2]	OBW Center	Displays the center frequency of the occupied bandwidth.
[3]	OBW Lower	Displays the frequency on the left of the occupied bandwidth.
[4]	OBW Upper	Displays the frequency on the right of the occupied bandwidth.

6.6 Spectrum Emission Mask Measurement (Spectrum Emission Mask)

On the Measure function menu, pressing F4 (Spectrum Emission Mask) displays the Spectrum Emission Mask function menu.

Table 6.6-1 Spectrum Emission Mask function menu

Function Key	Menu	Function
F1	Spectrum Emission Mask (On/Off)	The other Measure functions are set to Off when Spectrum Emission Mask is set to On.
F2	Reference Setup	Sets the reference carrier.
F3	Offset Setup	Sets the offset.
F4	Limit Setup	Sets the limit line.
F5	Limit Side	Selects the side of the limit line to judge. Both Makes a judgment on both sides. Lower Makes a judgment only in a frequency lower than the reference. Upper Makes a judgment in a frequency higher than the reference. The measurement result is initialized ("***" is displayed in Result) when this parameter is changed while measurement stops. At this time, the limit line is not displayed at the set position because the limit line refers to the measurement result. In order to update the limit line, press Single to perform measurement again.
F6	Result Type	Switches the display of the level result for each offset. Peak Displays with the absolute power. Margin Displays with the relative power of the reference line and measurement value.
F7	Load Standard Parameter	When Standard is set to other than Off, loads the measurement parameter according to the communication method selected in Standard. Appendix D "Standard Parameter List"

Pressing F2 (Reference Setup) in the Spectrum Emission Mask function menu displays the Reference Setup function menu. The Reference Setup function menu consists of three pages. Press → to change the page.

Table 6.6-2 Reference Setup function menu

Function Key	Menu	Function
Page 1	Reference Setup	Press F2 (Reference Setup) to display this page.
F1	Reference Mode	Selects how to calculate the reference power. Channel Uses the integral power within the range set in Channel BW for reference. Peak Uses the peak power within the range set in Channel BW for reference. Fix Uses the value set in Reference Power for reference.
F2	Reference Power	Sets the reference power when Reference Mode is set to Fix.
F3	Channel BW	Sets the bandwidth when measuring the reference power.
F4	Filter Type	Sets the filter type when measuring the reference power. Selects a type from Rect, Nyquist, and Root nyquist.
F5	Roll-off Factor	Sets the roll-off factor. Valid only when Filter Type is set to Nyquist or Root nyquist.
F6	Couple Ref & ATT	Setting here for Reference Level and Attenuator is shared in Offset Setup.
F7	Attenuator Auto/Manual	Switches auto/manual setting of attenuator when measuring the reference power.
F8	Attenuator	Sets the attenuator when measuring the reference power.

Table 6.6-2 Reference Setup function menu (Cont'd)

Function Key	Menu	Function
Page2	Reference Setup	Press F2 (Reference Setup), and then press → to display page 2.
F2	RBW Auto/Manual	Switches auto/manual setting of RBW when measuring the reference power.
F3	RBW Value	Sets RBW when measuring the reference power.
F6	VBW Auto/Manual	Switches auto/manual setting of VBW when measuring the reference power.
F7	VBW Value	Sets VBW when measuring the reference power.
F8	VBW Mode	Sets a VBW type when measuring the reference power.
Page3	Reference Setup	Press F2 (Reference Setup), and then press → twice to display page 3.
F2	Sweep Time Auto/Manual	Switches auto/manual setting of Sweep Time when measuring the reference power.
F3	Sweep Time	Sets Sweep Time when measuring the reference power.
F4	Auto Sweep Time Select	Selects a setting method when Sweep Time is set to Auto.
F7	Detection	Sets a detection method when measuring the reference power.
F8	Trace Points	Sets the trace point when measuring the reference power.

Press F3 (Offset Setup) in the Spectrum Emission Mask function menu displays the Offset Setup function menu. The Offset Setup function menu consists of four pages. Press → to change the page.

Table 6.6-3 Offset Setup function menu

Function Key	Menu	Function
Page1	Offset Setup	Press F3 (Offset Setup) to display this page.
F1	Edit Offset Number	Selects Offset to be set.
F2	Offset On/Off	Sets On/Off of Offset.
F3	Start Freq	Sets the start frequency of Offset. Sets the offset value from Center Freq.
F4	Stop Freq	Sets the stop frequency of Offset. Sets the offset value from Center Freq.
F5	Reference Level Auto/Manual	Selects Auto/Manual of the reference level. When Auto is selected, it will be the same value as the reference level when measuring the reference power.
F6	Reference Level	Sets the reference level when measuring the offset.
F7	Attenuator Auto/Manual	Switches Auto/Manual setting of the attenuator when measuring Offset.
F8	Attenuator	Sets the attenuator when measuring Offset.
Page2	Offset Setup	Press F3 (Offset Setup), and then press → to display page 2.
F1	Edit Offset Number	Selects Offset to be set.
F2	RBW Auto/Manual	Switches Auto/Manual setting of RBW when measuring Offset.
F3	RBW Value	Sets RBW when measuring Offset.
F4	Integrate BW Auto/Manual	Sets the resolution bandwidth when creating the trace data. It will be the same value as RBW, when Auto is selected.
F5	Integrate BW	Sets the measurement bandwidth to integrate the trace data swept by the specified RBW. This function has the following features. Able to perform a measurement with a resolution band width other than the selectable RBW. Able to gain a better selectivity in order to realize the specified band width by a small RBW.
F6	VBW Auto/Manual	Switches auto/manual setting of VBW when measuring Offset.
F7	VBW Value	Sets VBW when measuring Offset.
F8	VBW Mode	Sets the type of VBW when measuring Offset.

Table 6.6-3 Offset Setup function menu (Cont'd)

Function Key	Menu	Function
Page3	Offset Setup	Press F3 (Offset Setup), and then press → twice to display page 3.
F1	Edit Offset Number	Selects Offset to be set.
F2	Sweep Time Auto/Manual	Switches auto/manual setting of Sweep Time when measuring Offset.
F3	Sweep Time	Sets Sweep Time when measuring Offset.
F4	Auto Sweep Time Select	Selects the setting method when Sweep Time is set to Auto.
F7	Detection	Sets the detection type when measuring Offset.
F8	Trace Points	Sets the trace point when measuring Offset.
Page 4	Offset Setup	Press F2 (Offset Setup), and then press → three times to display page 4.
F1	Display Offset	Selects the offset to be displayed on screen. ● 1-6: Displays offset 1 to 6. ● 7-12: Displays offset 7 to 12.

On the Spectrum Emission Mask function menu, pressing F4 (Limit Setup) displays the Limit Setup function menu.

Table 6.6-4 Limit Setup function menu

Function Key	Menu	Function
F1	Edit Offset Number	Selects the offset to be set.
F2	Fail Logic	Specifies how to judge Pass/Fail. ABS1 Executes a judgment with the absolute level upper 1. REL Executes a judgment with the relative level upper. ABS1 and REL Executes "AND judgment" with the absolute level upper 1 and relative level upper. ABS1 or REL Executes "OR judgement" with the absolute level upper 1 and the relative level upper. ABS1 and ABS2 Executes "AND judgment" with the absolute level upper 1 and the absolute level upper 2. (ABS1 and REL) and ABS2 Executes "AND judgment" with the absolute level upper 1 and the relative level upper. Executes "AND judgement" with the result and the absolute level upper 2. (ABS1 or REL) and ABS2 Executes "OR judgment" with the absolute level upper 1 and the relative level upper. Executes "AND judgment" with the result and the absolute level upper 2. Off Does not judge. "AND judgment" is a method to put the two reference lines together and judge the lower level as the reference line. "OR judgment" is a method to combine the two reference lines and judge the higher level as being the reference line.

Table 6.6-4 Limit Setup function menu (Cont'd)

Function Key	Menu	Function
F3	ABS1 Start Level	Sets the absolute level upper limit 1 of the offset start frequency.
F4	ABS1 Stop Level	Sets the absolute level upper limit 1 of the offset stop frequency.
F5	ABS2 Start Level	Sets the absolute level upper limit 2 of the offset start frequency.
F6	ABS2 Stop Level	Sets the absolute level upper limit 2 of the offset stop frequency.
F7	REL Start Level	Sets the relative level upper limit of the offset start frequency.
F8	REL Stop Level	Sets the relative level upper limit of the offset stop frequency.

The display items for the measurement results are described below.

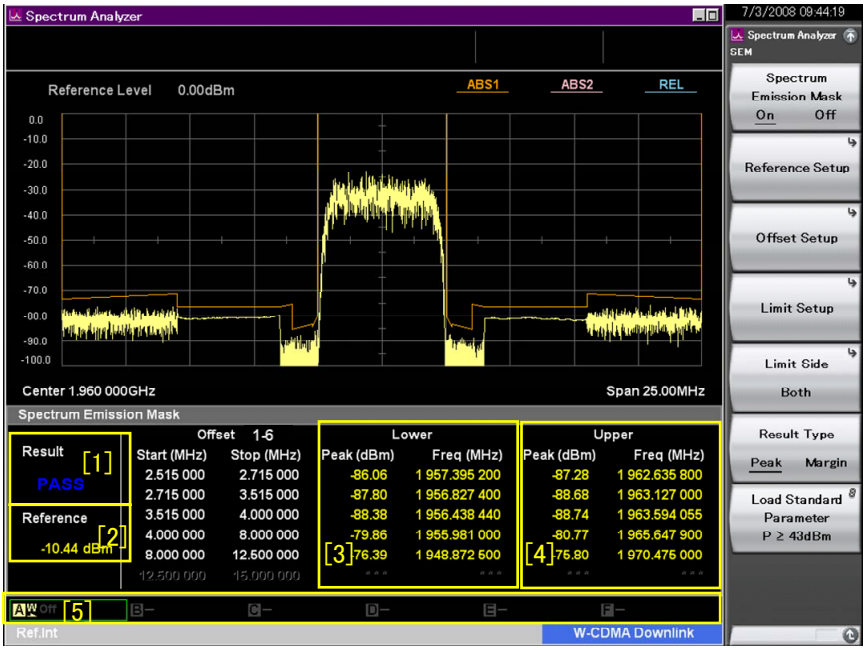


Figure 6.6-1 Display items for Measurement results

Table 6.6-5 Display items for measurement results

No.	Display	Description
[1]	Result	Displays the result of Pass/Fail judgment. “PASS” is displayed, if all the results are Pass. If not, “FAIL” will be displayed.
[2]	Reference	Displays the reference power.
[3]	Lower	Displays the result of the offset on the left of the reference. When the limit line is set, displays the frequency in which (limit line − measurement value) is the smallest. When Result Type is set to Peak, displays the level (measurement value), and when it is set to Margin, displays the margin (limit line minus measurement value).
[4]	Upper	Displays the result of the offset on the right of the reference. When the limit line is set, displays the frequency in which (limit line − measurement value) is the smallest. When Result Type is set to Peak, displays the level (measurement value), and when it is set to Margin, displays the margin (limit line minus measurement value).

Table 6.6-5 Display items for measurement results (Cont'd)

No.	Display	Description
[5]	Trace parameter	Displays storage mode, storage times, and trace type writing mode. Displays storage count in % for Spectrum Emission Mask. 3.1.2 Averaging function

The measurement result is initialized (*** is displayed in Result) when a parameter that requires recapture is changed while measurement stops. At this time, the limit line is not displayed at the set position because the limit line refers to the measurement result. In order to update the limit line, press Single to perform measurement again.

When Integrate BW (IBW) is set to Manual, the data measured by RBW, Sweep Time, Detection, and Trace Point set in the Offset menu is integrated by the width of IBW. Therefore, although the result is displayed in the range from Start Freq to Stop Freq on the screen, the actual sweep is performed in the range from Start Freq – IBW/2 to Stop Freq + IBW/2.

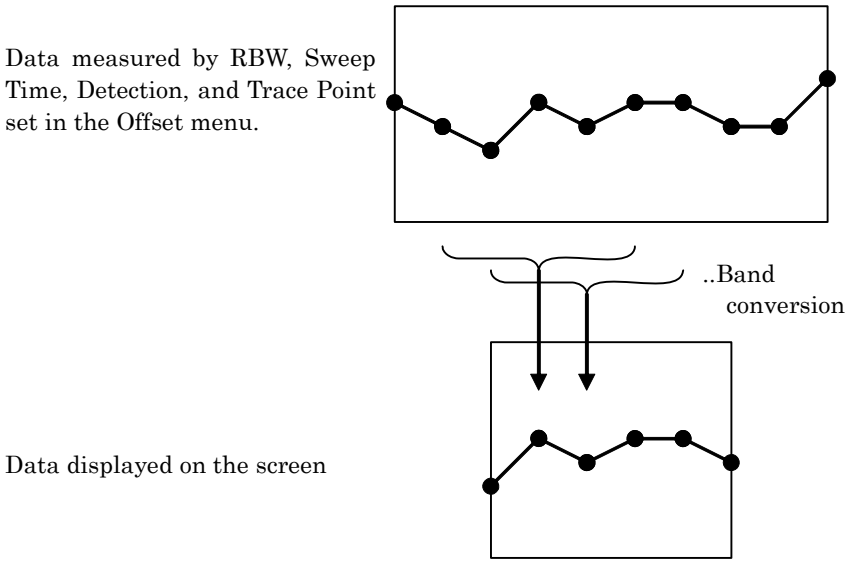


Figure 6.6-2 Band conversion (IBW)

An error occurs between the IBW setting value and the actual integral width, according to the frequency resolution of trace point. The error (Error [Hz]) is calculated by the following formula:

$$|Error| \le \frac{StopFreq - StartFreq}{\left\{OddF\left(TracePoint \cdot \frac{StopFreq - StartFreq}{IBW + (StopFreq - StartFreq)}\right)\right\} - 1}$$

Note that OddF(x) indicates a function to return the biggest odd number of a figure, the number being no greater than x.

You can decrease the error of IBW by increasing Trace Point. For example, in Start Freq = 4 MHz, Stop Freq = 8 MHz, Trace Point = 1001, IBW = 1 MHz, the error (Error [Hz]) of IBW is:

$$|Error| \le 5013 \quad [\text{Hz}]$$

If Trace Point is 10001:

$$|Error| \le 501 \quad [\text{Hz}]$$

Furthermore, when measuring a line spectrum, set IBW to greater than or equal to 3×RBW to reduce errors due to the type of RBW.

6.7 Spurious Emission Measurement

Once Spurious Emission measurement has been executed, the segments set in Segment Setup are swept. After the measurement has finished, the result is displayed. Furthermore, the spurious detected by the limit line set in each segment is judged as Pass/Fail.

Pressing F5 (Spurious Emission) on the Measure function menu displays the Spurious Emission function menu. The Spurious Emission function menu consists of 3 pages. Pressing F5 switches the pages.

Table 6.7-1 Description of Spurious Emission Function Menu

Function Key	Menu Display	Function
Page1	Spurious Emission	Press F5 (Spurious Emission) to display this page.
F1	Spurious Emission (On/Off)	When set to On, the other Measure functions are set to Off.
F2	Segment Setup	Sets the segment to sweep. ☞ Table 6.7-3
F3	Limit Setup	Sets the limit line. ☞ Table 6.7-5
F4	Displayed Segment	Sets the number of the segment to display on the trace. Unable to set any segment which is set to Off in Segment Setup.
F5	Page of Summary (Auto/Manual)	Sets the summary page auto numbering to Auto/Manual. Auto mode makes it possible to display the page on which the segment set in Displayed Segment is. This is available when **Displayed Summary Table** is set to **Result**.
F6	Previous Page	Displays the summary on the previous page.
F7	Next Page	Displays the summary on the next page.
F8	Low Phase Noise for Spurious Emission (On/Off)	Enables/Disables the Low Phase Noise Performance function. * ☞ 2.3.10 Low Phase Noise Display
Page2	Spurious Emission	Press F5 (Spurious Emission), and then press → to display page 2.
F1	Result Type (Worst/Peaks)	Selects the mode to display the spurious detected in each segment. Worst: Displays the spurious with the least margin to the limit line set in Limit Setup. Peaks: Displays the spurious detected by Search Resolution and Search Threshold set in each segment. Up to 10 segments are displayed per one segment.
F2	Time Domain Measurement (On/Off)	Sets whether to execute the time domain main measurement for spurious power. When set to On, the setting of Result Type is fixed to Worst.
F3	Time Domain Setup	Configures the settings for Time Domain measurement. ☞ Table 6.7-6
F4	Fail Stop (On/Off)	When set to On, the measurement stops as soon as the spurious over the limit line has been detected.

*: As the operation principle, the spurious response is generated at the specified frequency. Consequently, sometimes it is better not to use, such as at spurious measurement.

Table 6.7-1 Description of Spurious Emission Function Menu (Cont'd)

Function Key	Menu Display	Function
F5	Displayed Segment Mode (Auto/Manual)	Sets Displayed Segment Mode to Auto/Manual. When set to Auto, the setting of Displayed Segment is automatically switched in order to display the segment which is being swept.
F6	Displayed Summary Table (Range / Result)	Selects the contents displayed for Summary Table. ● Result Displays measurement result. ● Range Displays frequency range, RBW setting and VBW setting for each segment.
F7	Save Spurious Emission Parameter	Saves the parameters of Spurious Emission measurement. Register 1 to 8 are available to save the parameters. The date and time when the parameters were saved are displayed with a parameter which contains the parameter. *** is displayed with the register which does not contain the parameter.
F8	Recall Spurious Emission Parameter	Queries the parameter for Spurious Emission measurement. Register 1 to 8 are available to save the parameters. The date and time when the parameters were saved are displayed with the parameter which contains the parameter. *** is displayed with the register which does not contain the parameter.
Page 3	Spurious Emission	Press F2 (Spurious Emission), and then press ,→ twice to display page 3.
F1	Frequency Band Mode	Displaying the Frequency Band Mode menu. ☞ 2.3.6 Changing frequency band
F7	Load Standard Parameter	When "Standard" is set to other than "Off," the measurement parameters are read according to the selected communication method. This menu will not be displayed if parameter without Spurious Emission function is selected for Standard. ☞ Appendix D "Standard Parameter List"

The parameters for Save Spurious Emission Parameter and Recall Spurious Emission Parameter are shown below:

Table 6.7-2 Parameters to save/query

Parameter
All the parameters (except Spurious Emission On/Off) on Spurious Emission menu
Frequency Offset On/Off
Frequency Offset Value
Reference Level Offset On/Off
Reference Level Offset Value
Frequency Band Mode
Trigger Switch
Trigger Source
Trigger Slope
Trigger Delay
Trigger Level (Video)
Trigger Level (Wide IF Video)
Trigger Hold On/Off
Trigger Hold
Frame Sync Setup
Gate Sweep On/Off
Gate Delay
Gate Length
Gate Source
Gate Slope
Gate Level (Wide IF Video)
Gate Hold On/Off
Gate Hold
VBW Mode
Auto Sweep Time Select
Storage Mode

Pressing F2 (Segment Setup) on page 1 of the Spurious Emission function menu displays the Segment Setup function menu. Segment Setup function menu consists of three pages. Press → to switch the page.

Table 6.7-3 Descriptions of Segment Setup function menu

Function Key	Menu Display	Function
Page1	Segment Setup	Press F2 (Segment Setup) to display this page.
F1	Edit Segment Number	Sets the segment number.
F2	Segment	Sets the segment to On/Off.
F3	Start Freq	Sets the start frequency.
F4	Stop Freq	Sets the stop frequency.
F5	Reference Level	Sets the reference level.
F6	Attenuator (Auto/Manual)	Sets Auto/Manual for the attenuator.
F7	Attenuator	Sets the attenuator value.
F8	Detection	Sets the detection mode.
Page2	Segment Setup	Press F2 (Segment Setup), and then press → to display page 2.
F2	RBW (Auto/Manual)	Sets RBW to Auto/Manual.
F3	RBW Value	Sets RBW value.
F4	VBW (Auto/Manual)	Sets Auto/Manual for VBW of a segment. The setting of VBW Mode on BW function menu applies to all the segments.
F5	VBW Value	Sets the video bandwidth. This function is invalid when the detection mode of a segment is set to RMS.
F6	Sweep Time (Auto/Manual)	Sets Auto/Manual for the sweep time of a segment. The setting of Auto Sweep Time Select on Time/Sweep function menu applies to all the segments.
F7	Sweep Time	Sets the sweep time.
F8	Trace Points	Sets the trace points.
Page3	Segment Setup	Press F2 (Segment Setup), and then press → twice to display page 3.
F2	Couple Storage Count (On/Off)	Sets the shared setting of the storage count in each segment to On/Off. When set to On, the same as the storage count of the segment set in Displayed segment is set to those of all other segments.
F3	Storage Count	Sets the storage count of a segment.
F4	Pause before Sweep (On/Off)	Configures settings to pause before sweep of each segment. When it is set to On, the dialog box is displayed before measuring the segment, and the measurement pauses.
F5	Correction	Sets the correction table to use in a segment. Table 6.7-4
F6	Pre-Amp (On/Off)	Sets Pre Amp to On/Off.

Pressing F5 (Correction) on page 3 of the Segment Setup function menu displays the Correction function menu.

Table 6.7-4 Descriptions of Correction function menu

Function Key	Menu Display	Function
F1	Device	Selects the drive.
F6	Use Common Correction Table	Uses the common correction table.
F7	Recall Correction Table	Selects the level frequency correction table used in the set segment by specifying a file.

For details of a correction table, see "3.4.10 Correction" in the *MS2830A Signal Analyzer Operation Manual (Main unit Operation)* or the *MS2840A Signal Analyzer Operation Manual (Main unit Operation)*.

Pressing F3 (Limit Setup) on page 1 of the Spurious Emission function menu displays the Limit Setup function menu.

Table 6.7-5 Descriptions of Limit Setup function menu

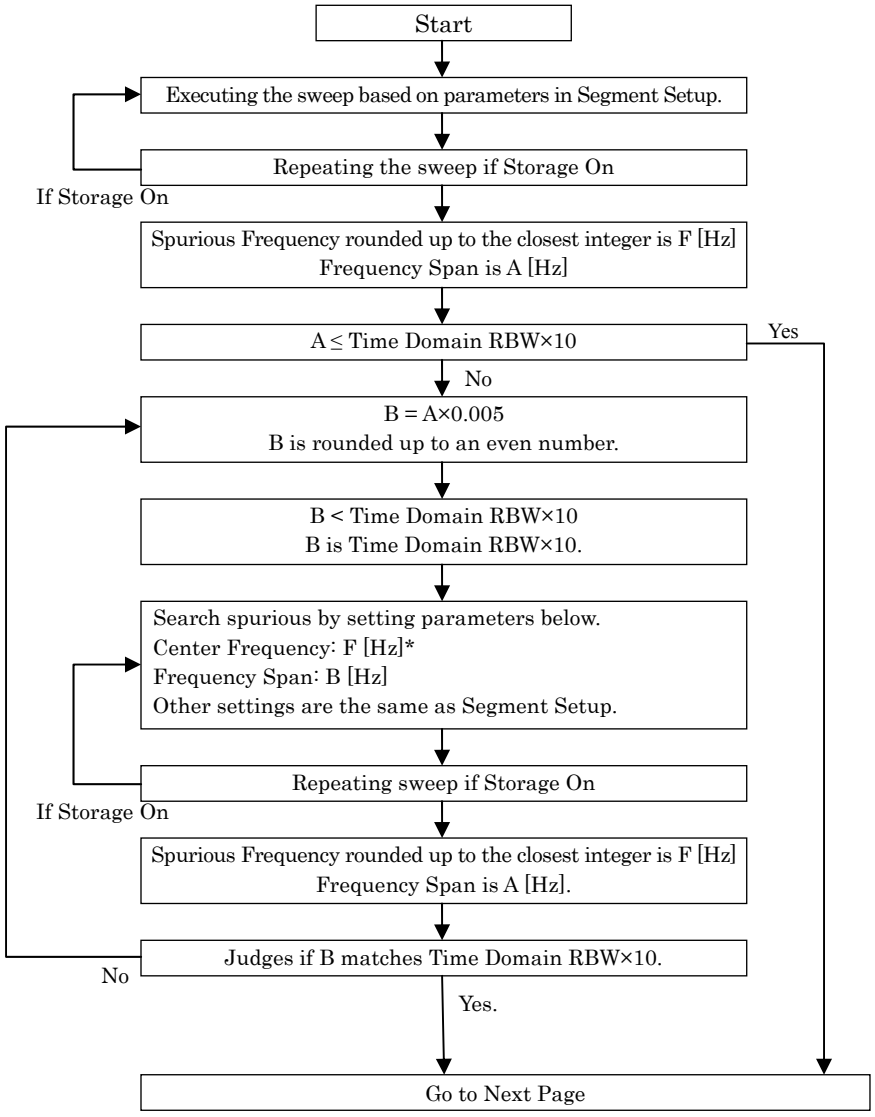
Function Key	Menu Display	Function
F1	Edit Segment Number	Sets the segment.
F2	Limit Start Level	Sets the absolute limit level of the start frequency in the segment.
F3	Limit Stop Level (Auto/Manual)	Sets the absolute level limit of the stop frequency in the segment to Auto/Manual. When set to Auto, the same as the value set in Limit Start Level is set to Limit Stop Level.
F4	Limit Stop Level	Sets the absolute level limit of the stop frequency in the segment.
F5	Search Resolution	Sets the spurious search resolution when Result Type is set to Peaks.
F6	Search Threshold Level	Sets the spurious search threshold when Result Type is Peaks.

Pressing F3 (Time Domain Setup) on page 2 of the Spurious Emission function menu displays the Time Domain Setup function menu.

Table 6.7-6 Descriptions of Time Domain Setup function menu

Function Key	Menu Display	Function
F1	Edit Segment Number	Sets the segment.
F2	Couple Segment RBW (On/Off)	Sets whether to share the RBW value set in Time Domain Setup. When set to On, the same as the value set in Segment Setup is automatically set to RBW value in Time Domain Setup.
F3	RBW	Sets the RBW value set in Time Domain Setup.
F4	Couple Segment VBW (On/Off)	Sets whether to share the VBW value set in Time Domain Setup. When set to On, , the same as the value set in Segment Setup is automatically set to VBW value in Time Domain Setup. This function is invalid when the detection mode in Time Domain Setup is set to RMS.
F5	VBW	Sets the VBW value set in Time Domain Setup. This function is invalid when the detection mode in Time Domain Setup is set to RMS.
F6	Sweep Time	Sets the sweep time in Time Domain mode.
F7	Detection	Sets the detection mode of Time Domain measurement. The setting of Storage Mode on Trace function menu applies to all the segments. When Detection is set to Positive, the maxim value (peak power) is detected. When Storage Mode is set to other than Off, Storage Mode is set to Max Hold during Time Domain measurement. When Detection is set to RMS or Sample, the average power is detected. When Storage Mode is set to other than Off, it is set to Lin Average during Time Domain measurement.

When Time Domain Measurement is set to On, Time Domain measurement is executed, as Figure 6.7-1 shows.



*: The sweep may go outside the Start Freq. and Stop Freq. range of the target segment, depending on B values. To prevent the problem, F is selected as below.

If F + (B/2) is above Stop Freq. of the target segment:
F = (Stop Freq.) – (B/2)

If F – (B/2) is below Stop Freq. of the target segment:
F = (Start Freq.) + (B/2)

Figure 6.7-1 Measurement Sequence of Time Domain measurement

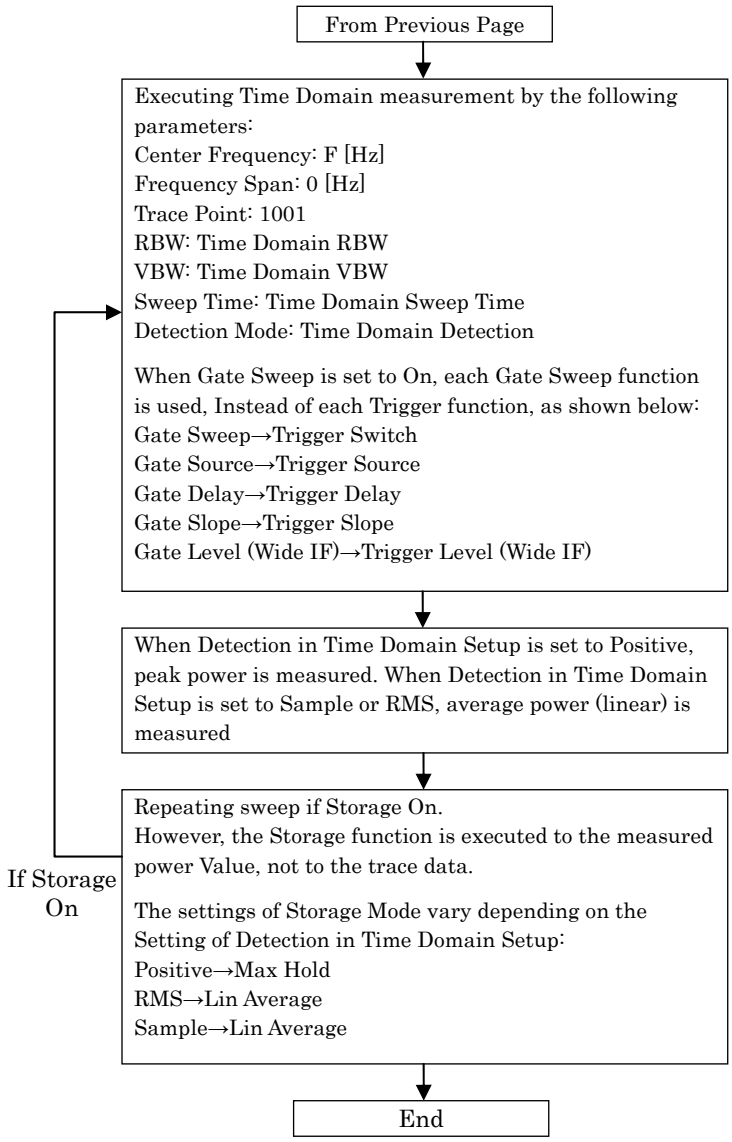


Figure 6.7-1 Measurement Sequence of Time Domain measurement (Cont'd)

Pressing F6 (Trace) on the main function menu or Trace displays the Trace function menu.

During Spurious Emission measurement, the Trace function menu changes, as shown below:

Table 6.7-7 Descriptions of Trace function menu

Function Key	Menu Display	Function
F1	Displayed Segment Mode (Auto/Manual)	Sets Displayed Segment Mode to Auto/Manual. When set to Auto, the setting of Displayed Segment is automatically switched to display the segment which is being swept.
F2	Displayed Segment	Sets the segment to display on the trace. A segment which is set to Off cannot be selected. This command cannot be set during measurement and when Displayed Segment Mode is set to Auto.
F3	Previous Displayed Segment	Displays the previous segment on the trace. If this function is executed when the trace displays the segment which is set to On and whose number is the smallest, the trace displays the segment which is set to On and whose number is the biggest. This function is invalid during measurement and when Displayed Segment Mode is set to Auto.
F4	Next Displayed Segment	Displays the next segment on the trace. If this function is executed when the trace displays the segment which is set to On and whose number is the biggest, the trace displays the segment which is set to On and whose number is the smallest. This function is invalid during measurement and when Displayed Segment Mode is set to Auto.
F5	Page of Summary (Auto/Manual)	Turns on/off the summary page auto numbering. Auto mode makes it possible to display the page on which the segment set in Displayed Segment is. This is available when **Displayed Summary Table** is set to **Result**.
F6	Previous Page	Displays the summary on the previous page.
F7	Next Page	Displays the summary on the next page.
F8	Storage Mode	Configures the settings to update/display the trace data. For details, see “3.1 Setting Storage Mode”.

Display items of the measurement results are described below:

When Result Type is set to Worst, the summary page displays the spurious with the least margin from the limit line set in Limit Setup.

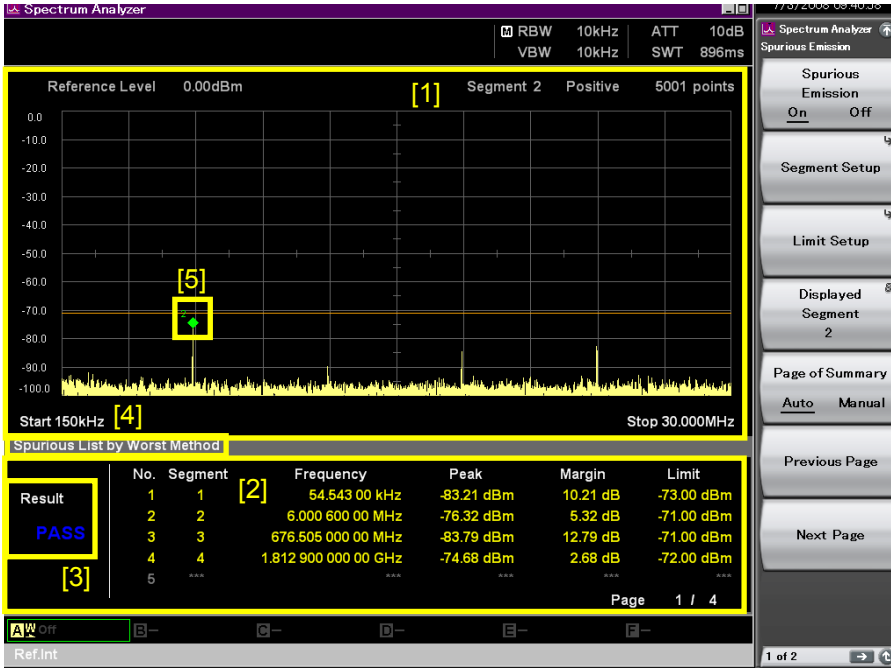


Figure 6.7-2 Display items of Spurious Emission measurement result (When Result Type is set to Worst.)

Table 6.7-8 Descriptions of Display Items for Spurious Emission measurement results

No.	Item	Description
[1]	---	Displays the trace of the segment.
[2]	No, Segment, Frequency, Peak, Margin, Limit	Displays the summary page. Five measurement results are displayed per one page. One page displays the following result: No: Spurious number Segment: Segment number of the detected spurious Frequency: Frequency of the detected spurious (Hz) Peak: Power of the detected spurious (dBm) Margin: Difference between the detected spurious and the limit line (limit line minus measurement value) (dB) Limit: Value of limit line to the frequency of the detected spurious (dBm)
[3]	Result	Displays the result (Pass/Fail). Pass is displayed if all the segments are judged as Pass. If not, Fail is displayed.
[4]	Peaks/Worst	Displays the setting of Result Type.
[5]	---	A marker is displayed with the detected marker. The figure of the marker is the spurious number.

Switch Time Domain to On while the measurement is being stopped, or change the limit line after executing the measurement when Time Domain is set to On. Then the remeasurement message, “Please sweep again.”, is displayed. Execute the measurement (Single) again, in order to display the result of Time Domain measurement.

Note:

When **Displayed Summary Table** is set to **Range**, the summary displays frequency range, RBW setting and VBW setting for each segment.

When Result Type is set to Peaks, the spurious detected by Search Resolution and Search Threshold set in each segment is displayed on the summary page. Up to 10 spurious can be displayed per one segment.

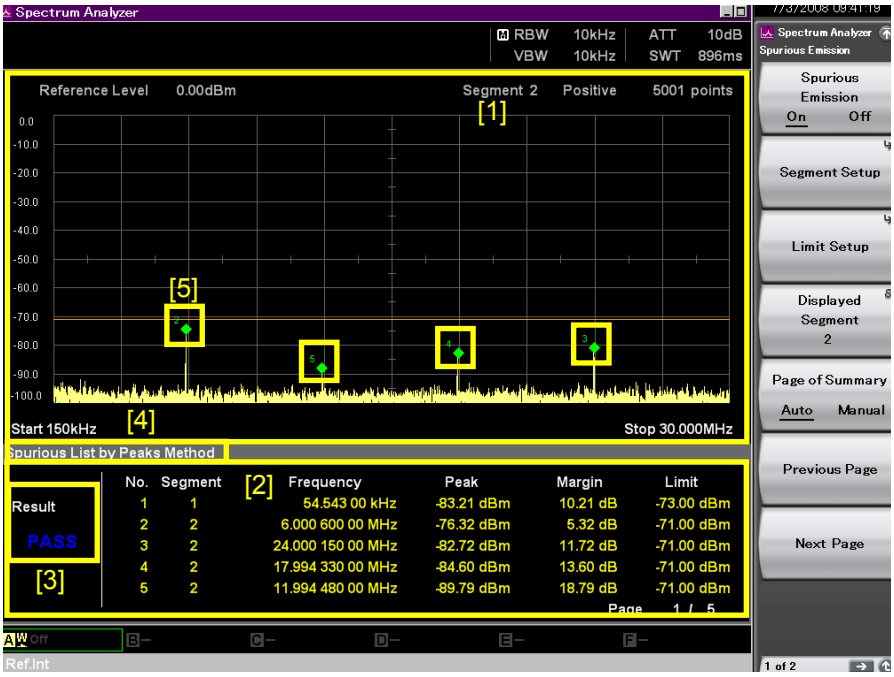


Figure 6.7-3 Display items of Spurious Emission measurement result (When Result Type is set to Peaks)

Table 6.7-9 Descriptions of Spurious Emission display items

No.	Item	Description
[1]	---	Displays the trace of the segment.
[2]	No, Segment, Frequency, Peak, Margin, Limit	Displays the summary page. Five measurement results are displayed per one page. Up to 10 spurious can be displayed per one segment. Each page displays the following result: No: Spurious number Segment: Segment number of the detected spurious Frequency: Frequency of the detected spurious (Hz) Peak: Power of the detected spurious (dBm) Margin: Difference between the detected spurious and the limit line (limit line minus measurement value) (dB) Limit: Value of limit line to the frequency of the detected spurious (dBm)
[3]	Result	Display the result (Pass/Fail). Pass is displayed if all the segments are judged as Pass. If not, Fail is displayed.
[4]	Peaks/Worst	Displays the setting of Result Type.
[5]	---	A marker is displayed with the detected marker. The figure of the marker shows the spurious number. Spurious numbers are sorted by level.

Switch Time Domain to On while the measurement is being stopped, or change the limit line after performing the measurement when Time Domain is set to On. Then the remeasurement message, “Please sweep again.” is displayed. Perform the measurement (Single) again, in order to display the result of Time Domain measurement.

Note:

When **Displayed Summary Table** is set to **Range**, the summary displays frequency range, RBW setting and VBW setting for each segment.

6.8 Two-tone Third Order Intermodulation Distortion

By inputting two different frequency CW signals (desired waves), two-tone third order intermodulation distortion is generated close to the desired waves according to non-linear characteristics of DUT. Then, TOI (Third Order Intercept) is calculated from the two-tone third order intermodulation distortion. Press → in the Measure function menu to display page 2 of the Measure function menu. Then press F1 (TOI) to display the TOI function menu.

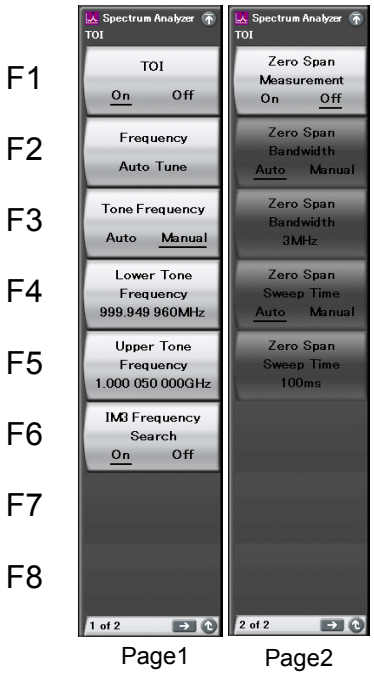


Figure 6.8-1 TOI function menu

Table 6.8-1 Description of the TOI function menu

Function key	Menu display	Function
Page 1	TOI	Appears when pressing → and F1 (TOI) in the Measure function menu.
F1	TOI (On/Off)	Turns off the other measurement functions if set to On.
F2	Frequency Auto Tune	Executes the TOI frequency auto tune.
F3	Tone Frequency Auto Manual	Selects whether to automatically detect the tone frequency.
F4	Lower Tone Frequency <Hz>	Sets the lower tone frequency. This cannot be set when the Tone Frequency is Auto.
F5	Upper Tone Frequency <Hz>	Sets the upper tone frequency. This cannot be set when the Tone Frequency is Auto.
F6	IM3 Frequency Search On/Off	Turns on and off the function of performing a peak search in the vicinity of the frequency at which IM3, calculated from two CW signals, occurs and then considering the peak detection frequency as IM3 frequency. Peak search is performed within the frequency range in which an error can occur due to Span, RBM, and Trace Point.
Page 2	TOI	Appears when pressing → and F1 (TOI) in the Measure function menu.
F1	Zero Span Measurement On/Off	Selects whether to execute the zero span measurement.
F2	Zero Span Bandwidth Auto/Manual	Toggles whether to set RBW for Zero Span Measurement automatically or manually. This cannot be set when the Zero Span Measurement is Off. This is switched to Manual when the zero span bandwidth is manually edited.
F3	Zero Span Bandwidth <Bandwidth>	Sets the RBW for the zero span measurement. This cannot be set when the Zero Span Measurement is Off.
F4	Zero Span Sweep Time Auto/Manual	Toggles whether to set Sweep Time for Zero Span Measurement automatically or manually. This cannot be set when the Zero Span Measurement is Off. This is switched to Manual when the zero span sweep time is manually edited.
F5	Zero Span Sweep Time <time>	Sets the sweep time for the zero span measurement. This cannot be set when the Zero Span Measurement is Off.

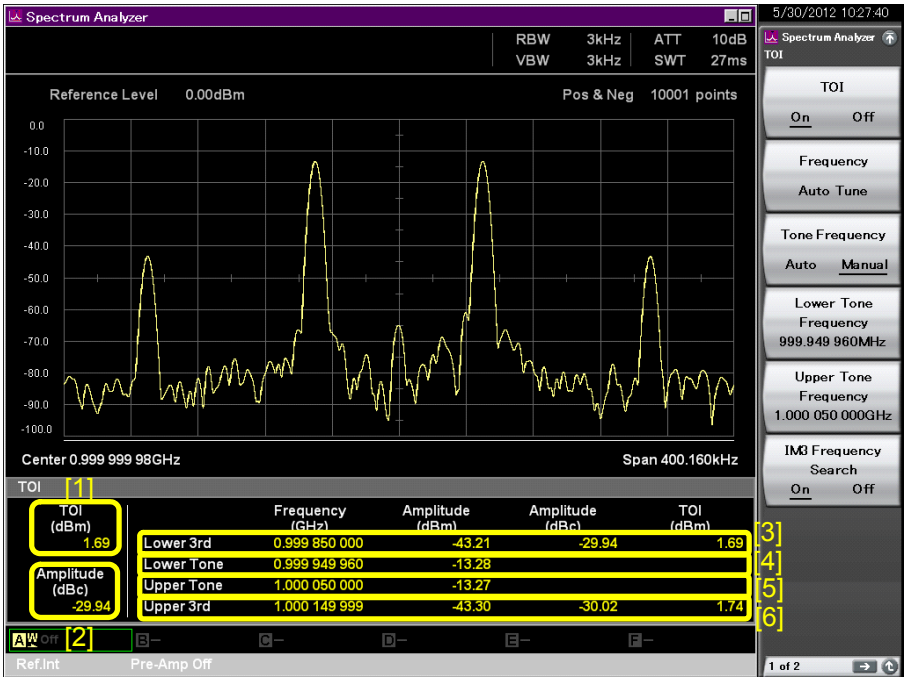


Figure 6.8-2 Display items for measurement results

Table 6.8-2 Description of display items for measurement results

No.	Item	Description
[1]	TOI (dBm)	Displays the calculated TOI. The Worst value (lower) between two calculated values (lower and upper) is displayed.
[2]	Amplitude (dBc)	Displays the level ratio of two-tone third-order intermodulation distortion to the desired wave. The Worst value (larger) between two calculated values (lower and upper) is displayed.
[3]	Lower 3rd	Two-tone third-order intermodulation distortion that occurs at the lower frequency of the desired wave. Frequency, signal level, level ratio to the desired wave, and calculated TOI are displayed.
[4]	Lower Tone	Desired wave that includes the lower frequency component. Frequency and signal level are displayed.
[5]	Upper Tone	Desired wave that includes the upper frequency component. Frequency and signal level are displayed.
[6]	Upper 3rd	Two-tone third-order intermodulation distortion that occurs at the upper frequency of the desired wave. Frequency, signal level, level ratio to the desired wave, and calculated TOI are displayed.

Chapter 7 Other Functions

This chapter describes the other functions of the Spectrum Analyzer function.

7.1 Selecting Other Function

Pressing F8 (Accessory) on page 2 of the main function menu displays the Accessory function menu.

Table 7.1-1 Accessory function menu

Function Key	Menu Display	Function
F1	Title	Sets the title character string. ☞ 7.2 "Setting Title"
F2	Title (On/Off)	Switches on/off title character string display. ☞ 7.2 "Setting Title"
F4	Erase Warm Up Message	Deletes warmup message display. ☞ 7.3 "Erasing Warmup Message"
F5	Uncal Message (On/Off)	Switches on/off Uncal message display. ☞ 7.4 "Setting Uncal Message"
F6	Reference Clock	Adjusts the internal reference frequency signal. ☞ 7.5 "Adjusting Internal Reference Frequency Signal"
F7	Preselector	Opens the Preselector function menu. This function is available for MS2830A-044/045, MS2840A-044/046. This function is not available when External Mixer is turned On.

7.2 Setting Title

A title of up to 32 characters can be displayed on the screen. (Character strings of up to 17 characters can be displayed on a function menu.)

<Procedure>

1. Press F8 (Accessory) on page 2 of the main function menu.
2. Press F1 (Title) to display the character string input screen. Select the characters with the rotary knob and input them by pressing Enter. Once input is completed, press F7 (Set).
3. It is also possible to hide the title display by pressing F2 (Title On/Off) and selecting "Off."

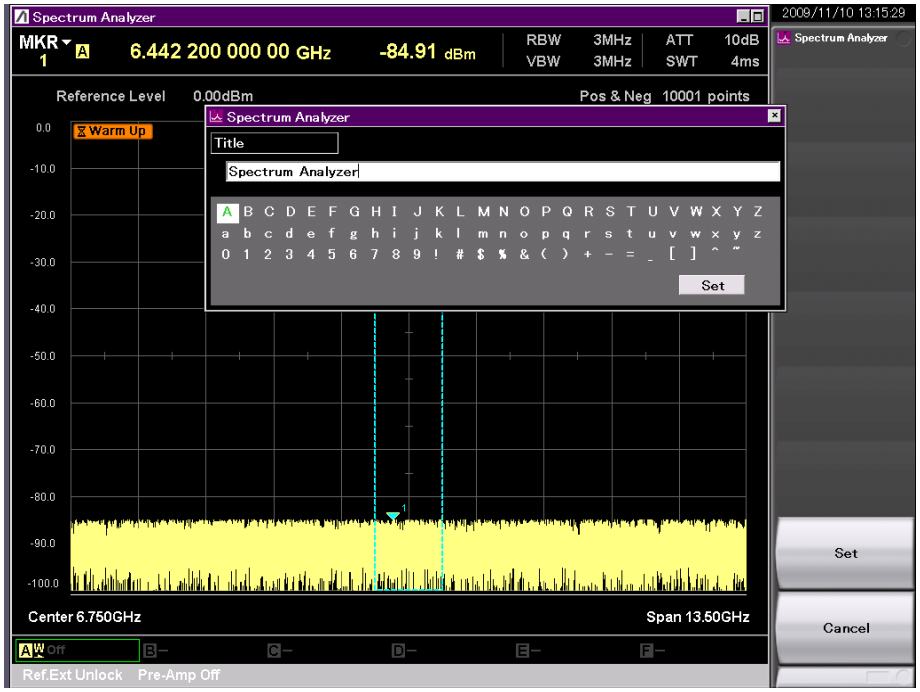


Figure 7.2-1 Setting title

7.3 Erasing Warmup Message

If the warmup message (Warm Up) indicating that the level and frequency are not stable is displayed upon power on, the message can be deleted.

<Procedure>

1. Press F8 (Accessory) on page 2 of the main function menu.
2. Press F4 (Erase Warm Up Message) to delete the warmup message.

7.4 Setting Uncal Message

The Spectrum Analyzer function can also execute measurements when values for which the results cannot be guaranteed are set. In this case, the Uncal message is displayed on the screen. Display of the Uncal message can be switched on/off.

<Procedure>

1. Press F8 (Accessory) on page 2 of the main function menu.
2. Press F5 (Uncal Message) and set either On or Off.

7.5 Adjusting Internal Reference Frequency Signal

Pressing F6 (Reference Clock) from the Accessory function menu displays the Reference Clock function menu.

Table 7.5-1 Reference Clock function menu

Function Key	Menu Display	Function
F1	Reference Clock	Adjusts the frequency of the internal reference frequency signal.
F2	Reference Clock Preset	Resets the Reference Clock to the factory-default value.

Example: Adjusting the reference clock

<Procedure>

1. Press F8 (Accessory) on the page 1 of main function menu.
2. Press F6 (Reference Clock) and then press F1 (Reference Clock) to adjust the frequency of the internal reference frequency signal.

7.6 Input Source for Reference Frequency Signal

The reference frequency signal used is displayed on the screen.

Ref.Int : The internal reference frequency signal is used.

Ref.Int Unlock : The internal reference frequency signal is unlocked. The internal hardware may be faulty.

Ref.Ext : The external reference frequency signal is used.

Ref.Ext Unlock : Not in sync with the external reference frequency signal. Check the reference signal input to the Ref Input connector.

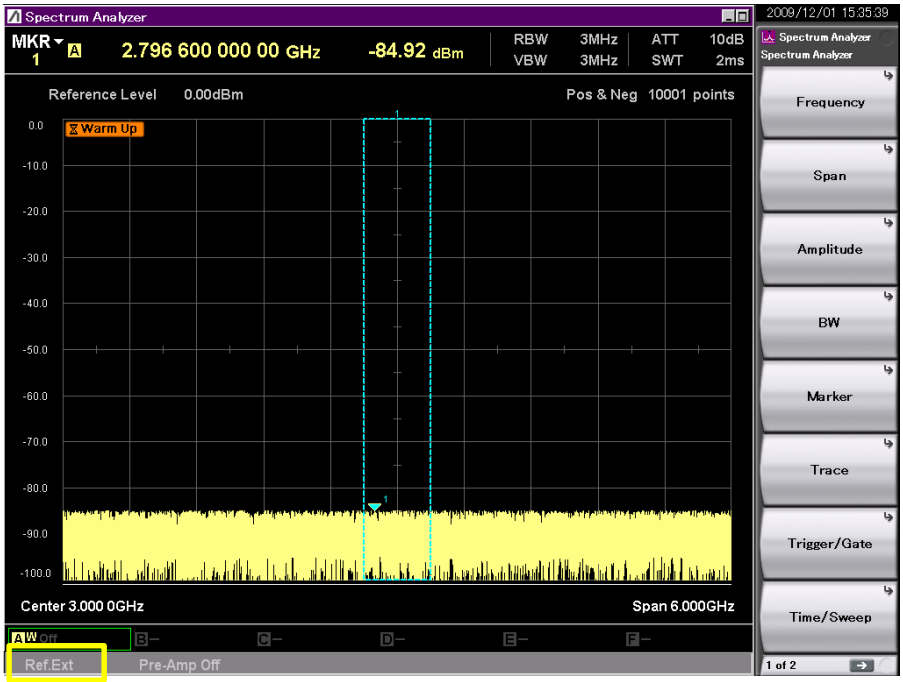


Figure 7.6-1 Input source for reference frequency signal

7.7 Pre-Amp On/Off Display

If the MS2830A-008/108, MS2840A-008/108 pre-amp or MS2830A-068/168, MS2840A-068/168/069/169 Microwave Preamplifier is installed, whether the pre-amp is on or off is displayed at the lower left of the screen.

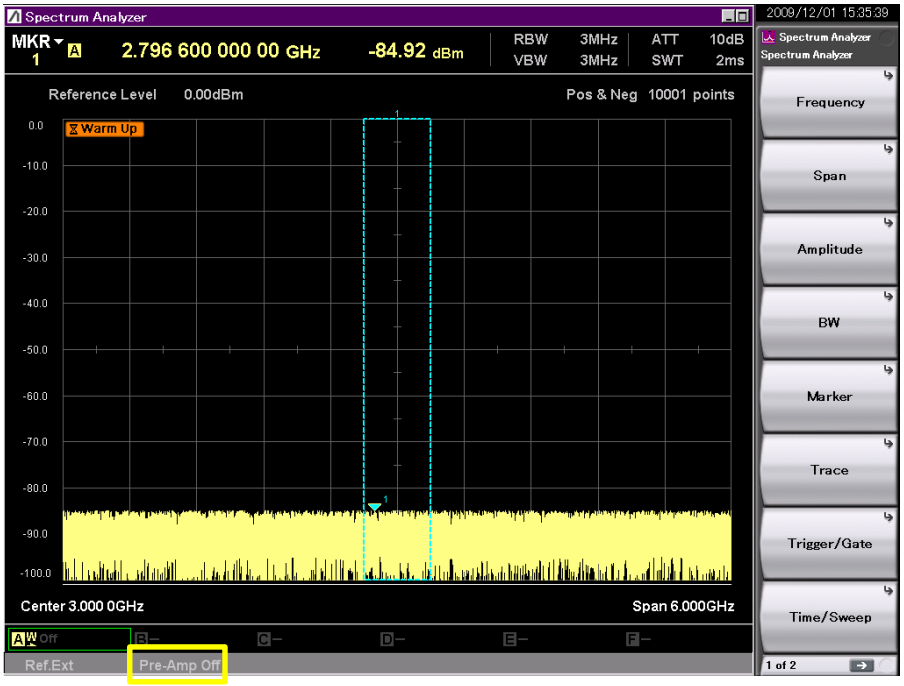


Figure 7.7-1 Pre-Amp On/Off display

7.8 Preselector Tuning

Note:

This function is available with MS2830A-044/045, MS2840A-044/046.
This function is not available when External Mixer is turned On.

Pressing F7 (Preselector) from the Accessory function menu displays the Preselector function menu.

Automatic preselector tuning (Preselector Auto Tune) can be executed also by pressing F5 (Preselector Auto Tune) of the Frequency function menu.

Table 7.8-1 Preselector function menu

Function Keys	Menu Display	Function
F1	Preselector Auto Tune	Auto tunes preselector. This function is available with MS2830A-044/045, MS2840A-044/046.
F2	Manual	Manually tunes the preselector. This function is available with MS2830A-044/045, MS2840A-044/046.
F3	Preselector Preset	Sets to factory shipment defaults. This function is available with MS2830A-044/045, MS2840A-044/046.

Example: Auto tunes preselector

<Procedure>

1. Press F8 (Accessory) on Page 1 on the main function menu, and then press F7 (Preselector).
2. Press F1 (Preselector Auto Tune).

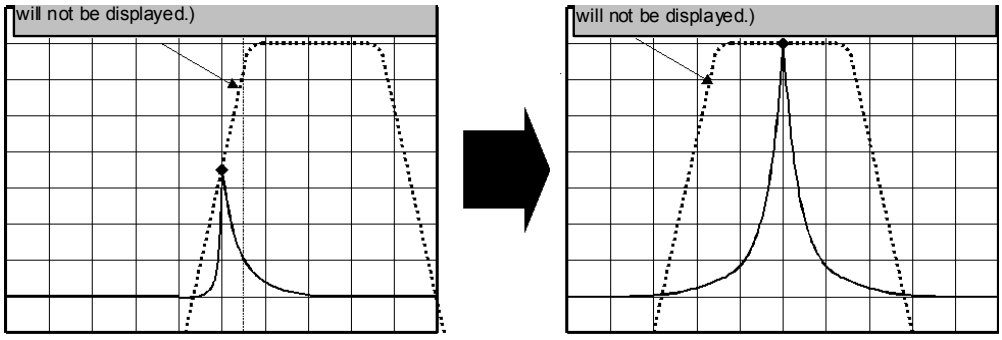
Example: Manually tunes preselector

<Procedure>

1. Press F6 (Accessory) on Page 1 on the main function menu, and then press F7 (Preselector).
2. Press F2 (Manual) and use rotary knob or cursor key to tune the peaking bias to make the signal indication level maximum.
3. Press F3 (Preselector Tune Preset) to return to factory shipment defaults.

MS2830A-044/045, MS2840A-044/046 employs a preselector to eliminate unexpected responses such as image responses and multiple responses in order to let only the real signals appear on the display. The preselector is a tunable band-pass filter that follows the reception frequency of the analyzer. The preselector is a tunable band-pass filter that follows the reception frequency of the analyzer.

Since MS2830A-044/045, MS2840A-044/046 has already been adjusted before shipping, peaking bias adjustment will not be required. But in order to avoid the case of insufficient detecting levels because of out-of-tuned frequency, the preselector frequency tuning capability (Preselector Tuning Function) is provided to obtain the maximum response.



Offset preselector tuning　　Optimized preselector tuning

Chapter 8 External Mixer

This section describes the operation of the external mixer and measurement procedure using examples.

8.1 External Mixer Overview

External mixer function is MS2830A-044/045, MS2840A-044/046 dedicated function.
The frequency range of MS2830A-044/045, MS2840A-044/046 extends up to 325 GHz by using optional external mixer. MA2806A, MA2808A and MA2743C to 51C are products designed for exclusive use with MS2830A or MS2840A.

Table 8.1-1 External Mixer (High Performance Waveguide Mixer)

Model	Name	Frequency range	Waveguide flange
MA2806A	High Performance Waveguide Mixer (50 to 75 GHz)	50 to 75 GHz	UG-385/U
MA2808A	High Performance Waveguide Mixer (60 to 90 GHz)	60 to 90 GHz	UG-387/U

Table 8.1-2 External Mixer (Harmonic Mixer)

Model	Name	Frequency range	Waveguide flange
MA2743C	Harmonic Mixer	40 to 60 GHz	MIL-DTL-3922/67D-007
MA2744C	Harmonic Mixer	50 to 75 GHz	MIL-DTL-3922/67D-008
MA2745C	Harmonic Mixer	60 to 90 GHz	MIL-DTL-3922/67D-009
MA2746C	Harmonic Mixer	75 to 110 GHz	MIL-DTL-3922/67D-010
MA2747C	Harmonic Mixer	90 to 140 GHz	MIL-DTL-3922/67D-M08
MA2748C	Harmonic Mixer	110 to 170 GHz	MIL-DTL-3922/67D-M06
MA2749C	Harmonic Mixer	140 to 220 GHz	MIL-DTL-3922/67D-M05
MA2750C	Harmonic Mixer	170 to 260 GHz	MIL-DTL-3922/67D-M04
MA2751C	Harmonic Mixer	220 to 325 GHz	MIL-DTL-3922/67D-M03

You can also apply other external mixers from other suppliers to cover frequency range up to 325 GHz.

Applicable mixer: Two-port mixer
Local frequency: 5 GHz to 10 GHz
IF frequency 1875 MHz

8.2 External Mixer

Press F1 (Frequency) on Page 1 of the main function menu, or press Frequency to display the Frequency function menu.
Then press → (more) to show the second page of the Frequency function menu for External Mixer settings.

Table 8.2-1 Frequency function menu

Function keys	Menu display	Function
Page 1	Frequency	Press **Frequency** to display this menu.
F1	Center	Sets the center frequency. ☞ 2.3.1 "Setting center frequency"
F2	Start	Sets the start frequency. ☞ 2.3.3 "Setting start frequency"
F3	Stop	Sets the stop frequency. ☞ 2.3.4 "Setting stop frequency"
F4	Switching Speed	Sets the frequency switching speed. ☞ 2.3.8 "switching speed"
F5	When External Mixer is On	
	PS*3 Center (On/Off)	Displays the sweep result of two polarities that reverse at the center frequency. ☞ 8.9 "Setting PS function"
	When External Mixer is Off	
	Preselector Auto Tune	Auto-tunes preselector. This function is available with MS2830A-044/045, MS2840A-044/046. ☞ 7.8 "Preselector Tuning"
F6	Offset (On/Off)	Enables/disables the frequency offset. ☞ 2.3.5 "Setting frequency offset"
F7	Offset Value	Sets the frequency offset value. ☞ 2.3.5 "Setting frequency offset"
F8	Step Size	Sets the step size for center, start and stop frequency. ☞ 2.3.9 "Setting step size"
Page 2	Frequency	Press **Frequency**, and then press → to display this menu.
F1	External Mixer*1 (On/Off)	Turn on when using external mixer. This function is available with MS2830A-044/045, MS2840A-044/046.
F2	External Mixer Band Select	Opens the Ext Band Select menu. This function is available with MS2830A-044/045, MS2840A-044/046. This function is available when External Mixer is turned On. ☞ 8.4 "Selecting External Mixer Band"
F3	External Mixer Bias	Sets the External Mixer Bias. This function is available with MS2830A-044/045, MS2840A-044/046. This function is not available when High Performance Waveguide Mixer is selected, or External Mixer is turned Off. ☞ 8.5 "Setting External Mixer Bias"

Table 8.2-1 Frequency function menu (Cont'd)

Function keys	Menu display	Function
F4	Conversion Loss	Sets the External Mixer Conversion Loss. This function is available with MS2830A-044/045, MS2840A-044/046. This function is available when External Mixer is turned On. ☞ 8.6 "Setting Conversion Loss"
F5	Cable Loss	Sets the External Mixer Cable Loss. This function is available with MS2830A-044/045, MS2840A-044/046. This function is available when External Mixer is turned On. ☞ 8.10 "Setting Cable Loss"
F6	Signal ID*2 (On/Off)	Turn this on when using Signal ID function. This function is available with MS2830A-044/045, MS2840A-044/046. ☞ 8.7 "Distinguishing measured signal - Signal ID"
F7	Signal ID Mode	Sets the Signal ID Mode. This function is available with MS2830A-044/045, MS2840A-044/046. ☞ 8.8 "Setting Signal ID Mode"
F8	When External Mixer is turned On.	
	PS*3 Center (On/Off)	Displays the sweep result of two polarities that reverse at the center frequency. ☞ 8.9 "Setting PS function" Micro Wave Preselector Bypass (On/Off) function is not available when External Mixer is turned On.
	When External Mixer is turned Off.	
	Micro Wave Preselector Bypass (On/Off)	Enables/Disables the Micro Wave Preselector Bypass function. This function is available with MS2830A -007/067/167, MS2840A-067/167. ☞ *MS2830A Signal Analyzer Operation Manual (Mainframe Operation),* "1.3.13 MS2830A-067/167", "1.3.14 MS2830A-007", or *MS2840A Signal Analyzer Operation Manual (Mainframe Operation),* "1.3.15 MS2840A-067/167".
Page 3	Frequency	Press **Frequency**, and then press → twice to display this menu.
F8	External Mixer Calibration*4	Executes the External Mixer Calibration function. This function is available with MS2830A-044/045, MS2840A-044/046. This function cannot be performed without High Performance Waveguide Mixer or when External Mixer is turned Off. ☞ 8.11 External Mixer Calibration Function

*1: The following restrictions apply when External Mixer is On:

- Spurious Emission measurement cannot be set to On. Conversely, in Spurious Emission measurement mode, External Mixer cannot be set to On.
- ATT cannot be used.
- Preselector function menu becomes unavailable.

- Pre-AMP is fixed to OFF.
- Microwave Preselector Bypass cannot be set.
- Frequency Band Mode cannot be set.

*2: Measure function cannot be set to On when Signal ID is On. Conversely, Signal ID cannot be set to On when Measure function is On.

*3: Signal ID cannot be set to On when PS function is On. Conversely, PS function cannot be set to On when Signal ID is On.

*4: External Mixer Calibration function cannot be performed under the following conditions.

- Measurement function On.
- Trigger is On.
- Gate is On.

Pressing F3 (Amplitude) on the main function menu, or pressing Amplitude displays the Amplitude function menu.
Then press → (more) to show the second page of the Amplitude function menu for External Mixer settings.

Table 8.2-2 Amplitude function menu

Function keys	Menu display	Function
Page 1	Amplitude	Press **Amplitude** to display this menu.
F1	Reference Level	Sets the reference level. ☞ 2.4.1 "Setting reference level"
F2	When External Mixer is turned On.	
	Cable Loss	Sets the External Mixer Cable Loss. ☞ 8.10 "Setting External Mixer Cable Loss"
	When External Mixer is turned Off.	
	Attenuator (Auto/Manual)	Selects automatic setting or manual setting of the input attenuator. ☞ 2.4.2 "Setting input attenuator"
F3	When External Mixer is turned On.	
	Signal ID* (On/Off)	Turn on when using Signal ID function. This function is available with MS2830A-044/045, MS2840A-044/046. ☞ 8.7 "Distinguishing measured signal - Signal ID"
	When External Mixer is turned Off.	
	Attenuator	Sets the input attenuator. ☞ 2.4.2 "Setting input attenuator"
F4	When External Mixer is turned On.	
	Signal ID Mode	Sets the Signal ID Mode. This function is available with MS2830A-044/045, MS2840A-044/046. ☞ 8.8 "Setting Signal ID Mode"
	When External Mixer is turned Off.	
	Pre-amp	Sets Pre-amp to On/Off. This is displayed only when MS2830A-008/108/068/168, MS2840A-008/108/068/168/069/169 Preamplifier is installed. ☞ 2.4.6 "Pre-amp"
F5	Log Scale Unit	Sets the level display unit to be used during log scale. ☞ 2.4.4 "Setting reference level unit"
F6	Scale	Switches log level display and linear level display. ☞ 2.4.3 "Setting scale"
F7	Offset (On/Off)	Switches On/Off the reference level offset function. ☞ 2.4.5 "Setting reference level offset"
F8	Offset Value	Sets the reference level offset value. ☞ 2.4.5 "Setting reference level offset"

Table 8.2-2 Amplitude function menu (Cont'd)

Function keys	Menu display	Function
Page 2	Amplitude	Press Amplitude, and then press → to display this menu.
F1	Impedance	Sets 50 Ω/75Ω of impedance. ☞ 2.4.7 "Setting impedance"
F8	Micro Wave Preselector Bypass (On/Off)	This function is not available when External Mixer is turned On. Enables/Disables the Micro Wave Preselector Bypass function. This function is available with MS2830A-007/067/167, MS2840A-067/167. ☞ *MS2830A Signal Analyzer Operation Manual (Mainframe Operation)*,"1.3.13 MS2830A-067/167", "1.3.14 MS2830A-007", or *MS2840A Signal Analyzer Operation Manual (Mainframe Operation)*, "1.3.15 MS2840A-067/167".

*: Measure function cannot be set to On when Signal ID is On. Conversely, Signal ID cannot be set to On when Measure function is On.

8.3 Connecting External Mixer

1. Fix the external mixer to the device under test.

2. Using the coaxial cable, connect the external mixer to the 1st Local Output on the front panel.

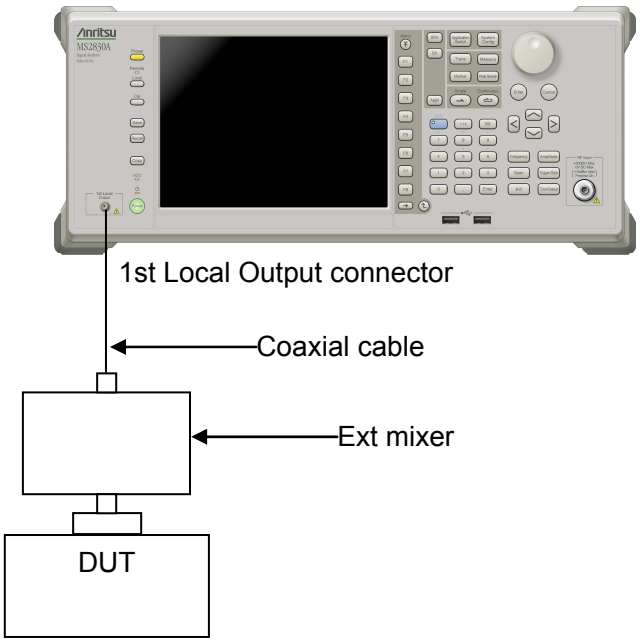


Figure 8.3-1 External Mixer Connection

Notes:

- To connect an external mixer, use the coaxial cable supplied with the High Performance Waveguide Mixer, or use a low insertion loss coaxial cable especially in the range of local frequency from 5 to 10 GHz and also at 1875 MHz IF frequency.

- Tighten the SMA connector by the regulation torque.

8.4 Setting Band of External Mixer

To set the band, perform the following key operation:
Press F2 (External Mixer Band Select) on Page 2 of the Frequency function menu, and use the function keys to select the desired band.

Table 8.4-1 Ext Band Select function menu

Function keys	Menu display	Function
Page 1	Ext Band Select	Press F2 (External Mixer Band Select) on Page 2 of the Frequency function menu.
F1	Band V+ High Performance 50-75 GHz	High Performance Waveguide Mixer Band VHP Mixing order (n) 8+
F2	Band E– High Performance 60-90 GHz	High Performance Waveguide Mixer Band EHP Mixing order (n) 12–
F4	Band A+ 26.5-40 GHz	Harmonic Mixer Band A+ Mixing order (n) 4+ (Default)
F5	Band Q+ 33-50 GHz	Harmonic Mixer Band Q+ Mixing order (n) 5+
F6	Band U+ 40-60 GHz	Harmonic Mixer Band U+ Mixing order (n) 6+
F7	Band V+ 50-75 GHz	Harmonic Mixer Band V+ Mixing order (n) 8+
F8	Band E+ 60-90 GHz	Harmonic Mixer Band E+ Mixing order (n) 9+
Page 2	Ext Band Select	Press F2 (External Mixer Band Select), and then press → to display this menu.
F1	Band W+ 75-110 GHz	Harmonic Mixer Band W+ Mixing order (n) 11+
F2	Band F+ 90-140 GHz	Harmonic Mixer Band F+ Mixing order (n) 14+
F3	Band D+ 110-170 GHz	Harmonic Mixer Band D+ Mixing order (n) 17+
F4	Band G+ 140-220 GHz	Harmonic Mixer Band G+ Mixing order (n) 22+
F5	Band Y+ 170-260 GHz	Harmonic Mixer Band Y+ Mixing order (n) 26+
F6	Band J+ 220-325 GHz	Harmonic Mixer Band J+ Mixing order (n) 33+

When selecting the Band V+ High Performance 50-75 GHz, the MS2830A/MS2840A should be combined with the High Performance Waveguide Mixer (50 to 75 GHz).

When selecting the Band E– High Performance 60-90 GHz, the MS2830A/MS2840A should be combined with the High Performance Waveguide Mixer (60 to 90 GHz).

The below equation shows the measurable side band phase noise on the selected band.

Sideband phase noise = –95 + 20log (n) dBc, typical value

Measurement of Band F+ to J+ is made possible in conjunction with other manufacture's external mixer.

8.5 Setting External Mixer Bias

Sets the External Mixer Bias.

Press F3 (External Mixer Bias) on Page 2 of the Frequency function menu, and use the numeric keypad or rotary knob to input so that the received signal level becomes maximum. The displayed value indicates the biased current (mA).

Setting range: 0.0 to 20.0 mA
Resolution: 0.1 mA

Note:

The conversion loss varies depending on the mixer bias.

Adjust according to your external mixer.

The External Mixer Bias is fixed to 0.0 mA when High Performance Waveguide Mixer is used.

8.6 Setting Conversion Loss

Sets the External Mixer Conversion Loss.
If an accurate level measurement is necessary, use the value which was calibrated by the power meter.

By default, this unit is adjusted to display the level that is derived from adding the input level of the IF frequency signal for CW (1875 MHz) to the 1st Local Output connector, the external mixer's conversion loss value, Cable loss value, and Correction value.

Press F4 (Conversion Loss) on Page 2 of the Frequency function menu to display the External Mixer Conversion Loss function menu.

Table 8.6-1 External Mixer Conversion Loss function menu

Function keys	Menu display	Function
Page 1	Conversion Loss	Press F4 (Conversion Loss) on Page 2 on the Frequency function menu.
F1	Conversion Loss Mode	Sets the compensation for External Mixer Conversion Loss. Fixed: Compensates the loss by a fixed value. (Default) Table: Compensates the loss by a table value.*
F2	Conversion Loss Fixed	Available when Conversion Loss Mode is set to Fixed. Range: 0.00 to 99.99 dB Default: 15.00 dB Resolution: 0.01 dB
F3	Conversion Loss Table	Loads External Mixer Conversion Loss Table. Available when Conversion Loss Mode is set to Table. 8.6.1 “Setting Conversion Loss Table”

*: As shown in Figure 8.6-1, if the frequency range over which the correction factors are entered is from Fa to Fb, displayed frequency ranges lower than Fa or higher than Fb have correction factors applied. The correction factor for frequencies lower than Fa is the same as that (La) for Fa and the correction factor for frequencies higher than Fb is the same as that (Lb) for Fb. The correction factors between Fa and Fb are calculated by the linear interpolation of log value at Fa and Fb.

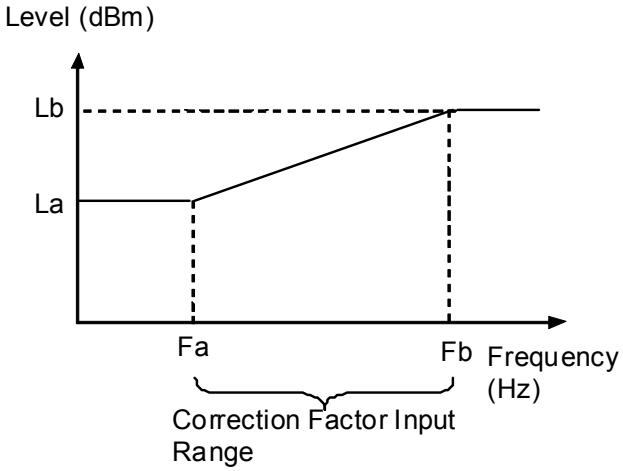


Figure 8.6-1 Operation When Correction Factors Are Entered

8.6.1 Setting Conversion Loss Table

This executes loading of the External Mixer Conversion Loss Table.
Connect the USB memory stick supplied with the High Performance Waveguide Mixer.
Press F3 (Conversion Loss Table) on External Mixer Conversion Loss function menu to load the External Mixer Conversion Loss Table from the USB memory stick.

One External Mixer Conversion Loss Table is saved for each band of the High Performance Waveguide Mixer.

The F3 key button menu displays the serial number of the External Mixer Conversion Loss Table of the selected band.
To clear the loaded External Mixer Conversion Loss Tables, execute System Reset of Configuration function on the main unit.

8.7 Distinguishing measured signal - Signal ID

In case of receiving unknown signals, be sure to turn on the Signal ID function.

Signal ID will be enabled by the following procedure below.
On the second page of the Frequency function menu, press F6 (Signal ID On Off).

In case of using an external mixer without preselector, identification of whether each displayed signal is real signal or not (image signal) is essential. Without preselector, the signal at frequency (f) expressed by the following equation will be displayed as an IF signal.

IF frequency = |f ± Local frequency × N|

A signal detected as a frequency in the opposite ± polarity is called an image response. A signal detected by an order other than normal local multiplication number is called a multiple response.

The IF frequency of this equipment is 1875 MHz.

When Signal ID is turned ON, this equipment will alternately switch the polarity against the local signal in every sweep. By this operation, image responses and multiple responses will alternately appear and disappear in every sweep, and therefore those will be identified as alias (image) signals.

Due to the frequency response of the external mixer, the indicated level of the real signal may also be changed in every sweep while Signal ID is turned ON. Be sure to switch off Signal ID after the successful identification of real signals.

Mixing order when Signal ID is ON

Band VHP	8– (High Performance Waveguide Mixer)
Band EHP	12+ (High Performance Waveguide Mixer)
Band A+	5–
Band Q+	6–
Band U+	7–
Band V+	9–
Band E+	10–
Band W+	12–
Band F+	15–
Band D+	18–
Band G+	23–
Band Y+	27–
Band J+	34–

Signal ID cannot be set to On when Measure function is On.
Signal ID cannot be set to On when PS function is On.
When using the High Performance Waveguide Mixer (60 to 90 GHz), Signal ID cannot be turned ON if the start frequency is below 61.875 GHz.

8.8 Setting Signal ID Mode

Sets the Signal ID Mode.

Press F7 (Signal ID Mode) on Page 2 of the Frequency function menu, and use the function keys to select the desired mode.

Table 8.8-1 Signal ID Mode function menu

Function keys	Menu display	Function
Page 1	Signal ID Mode	Press F7 (Signal ID Mode) on Page 2 of the Frequency function menu.
F1	Image Shift	Displays the sweep results of different polarities alternately. (Default)
F2	Image Suppress	Displays the sweep results of different polarities as a single result after Minimum processing.

When Signal ID is ON, MS2830A/MS2840A inverts polarity against local signal per sweep. At that time, the result is displayed in Signal ID Mode as below.

Image Shift mode:

At Single sweep, the sweep results of different polarities are displayed separately.
At Continuous sweep, the sweep results of different polarities are displayed alternately.

Image Suppress mode:

Displays the sweep results of different polarities as a single result after Minimum processing.

8.9 Setting PS Function

Sets the PS function of the external mixer.

Press F8 (PS Center On Off) on Page 2 of the Frequency function menu.

This function reverses the frequency polarity of the external mixer at the center frequency and displays the sweep result of the two polarities.

Note:

PS function cannot be turned ON when the External Mixer Band is not set to High Performance Waveguide Mixer.

PS function cannot be turned On when Signal ID is On.

Sweep Type Rules is fixed to Swept Only.

When using the High Performance Waveguide Mixer (60 to 90 GHz), PS function cannot be turned ON if the start frequency is below 61.875 GHz.

8.10 Setting External Mixer Cable Loss

Sets the External Mixer Cable Loss.

When an accurate level measurement is necessary, perform level calibration of the external mixer, using the value calibrated by the power meter.

The MS2830A/MS2840A displays a level calibration value to which External Mixer Conversion Loss, Cable Loss, and Correction are added.

Press F5 (Cable Loss) on Page 2 of the Frequency function menu.

Setting the External Mixer Cable Loss

Range	0 to 99.99 dB
Resolution	0.01 dB
Default	0.00 dB

To perform correction with the frequency characteristics below, error and gain can be corrected by using the Correction function. Refer to Section 3.4.10 "Correction" in the *MS2830A Signal Analyzer Operation Manual (Mainframe Operation)* or the *MS2840A Signal Analyzer Operation Manual (Mainframe Operation)*.

- Frequency characteristics and loss of pre-amplifier, etc. connected to RF input connector.
- When want to measure the field strength with an antenna or near-field probe connected (antenna factor correction).

Note:

When using the High Performance Waveguide Mixer, calibrate the external mixer port before setting the external mixer cable loss. Refer to 8.11 "External Mixer Calibration Function".

■Cable loss setting of the external mixer

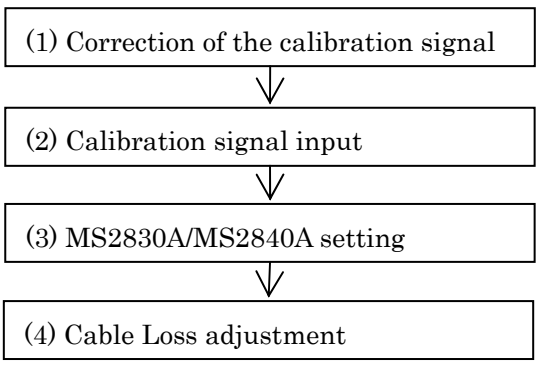


Figure 8.10-1 Cable loss setting of the external mixer

(1) Correction of the calibration signal

Prepare a signal generator as the source of calibration signals.

Calibrate the output signal of the signal generator by using the power sensor/meter.

Frequency: 1875 MHz
Output Level: –20 dBm ± 0.05 dB

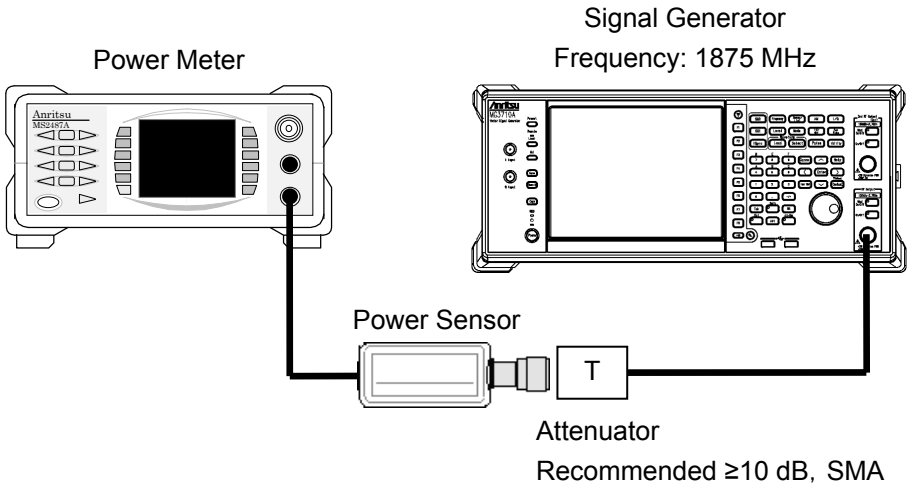


Figure 8.10-2 Correction of the calibration signal

(2) Calibration signal input

Connect the calibrated signal to the External Mixer port (1st Local Output port) of the MS2830A, MS2840A by using the coaxial cable for connecting the external mixer.

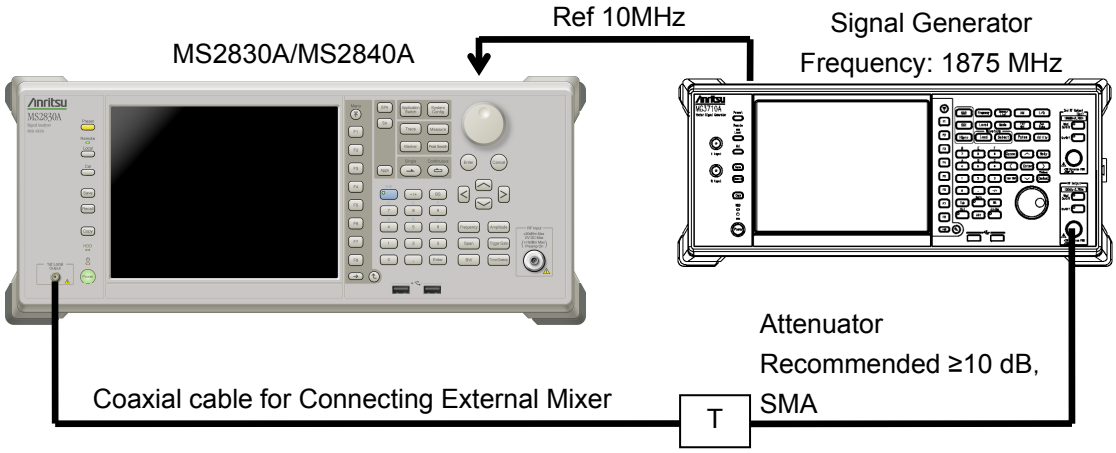


Figure 8.10-3 Calibration signal input

(3) MS2830A, MS2840A setting

Set up the MS2830A or MS2840A as below.

Configuration screen
Correction
- Correction (On/Off): Off

Spectrum Analyzer screen
Frequency
- External Mixer (On/Off): On
- External Mixer Band Select: Select the used band
- Conversion Loss Mode: Fixed
- Conversion Loss Fixed: 0 dB

Span
- Span: Zero Span

(4) Cable Loss adjustment

Adjust Cable Loss so that the signal level on the screen will be –20 dBm.

Spectrum Analyzer screen
Frequency
- Cable Loss: Adjust to make signal level to –20 dBm

8.11 External Mixer Calibration Function

When an accurate level measurement is necessary, execute the External Mixer Calibration function.

Input the signal calibrated by the power meter to 1st Local Output port and press F8 (External Mixer Calibration) on Page 3 of Frequency function menu.

To clear the external mixer calibration value, execute System Reset of Configuration function on the main unit.

Note:

The External Mixer Calibration function is available only when External Mixer Band Select is High Performance Waveguide Mixer.
Also, this function cannot be performed under the following conditions.

- Measure function is On.
- Trigger is On.
- Gate is On.

■Performing External Mixer Calibration

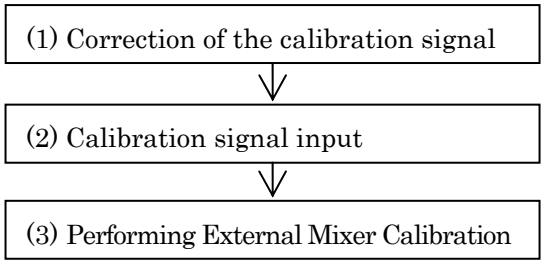


Figure 8.11-1 External Mixer Calibration Procedure

(1) Correction of the calibration signal

Prepare a signal generator as the source of calibration signals.

Calibrate the output signal of the signal generator by using the power sensor/meter.

Frequency: 1875 MHz
Output Level: –20 dBm ± 0.05 dB

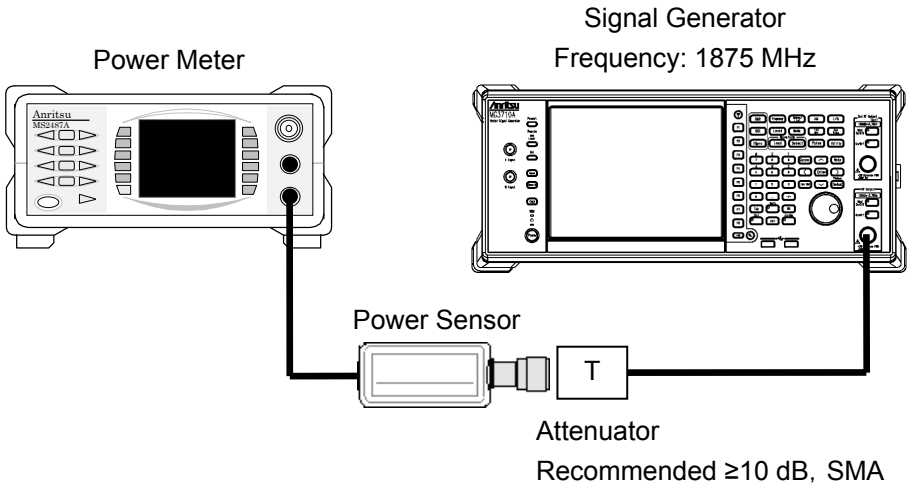


Figure 8.11-2 Correction of the calibration signal

(2) Calibration signal input

Connect the calibrated signal to the External Mixer port (1st Local Output port) of the MS2830A or MS2840A by using the coaxial cable for connecting the external mixer.

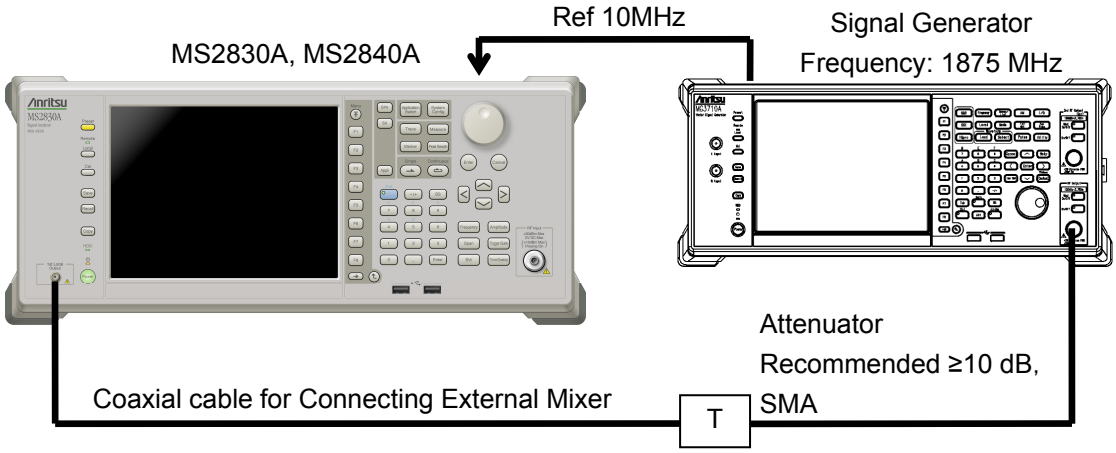


Figure 8.10-3 Calibration signal input

(3) Performing External Mixer Calibration

Press F8 (External Mixer Calibration) to calibrate 1st Local Output port.

Appendix A Error Messages

Table A-1 Error Messages

Message	Explanation
Out of range.	The settable range is exceeded.
Not available in Frequency Domain.	This operation is invalid during frequency domain display.
Not available in Time Domain.	This operation is invalid during time domain display.
Cannot Set under 4dB with Step Key and Encoder. Please Input with Numeric Key.	An attenuator setting of less than 4 dB requires the input of numeric keys.
Not available in Lin Scale.	This operation is invalid when Scale Mode is set to "Linear."
Signal not found	No signal is input.
Search error	Search error
Marker value is invalid.	The marker value is invalid.
Not available in Marker Off.	This operation is invalid when Marker is in the Off state.
Not available in Power Marker Off.	This operation is invalid when Power Marker is in the Off state.
Not available in Power Marker On.	This operation is invalid when Power Marker is in the On state.
Not available if not Delta Marker.	This operation is invalid when Delta Marker is not in the On state.
Not available in Trace Blank.	This operation is invalid when Active Trace is in the Blank state.
Not available in RMS detection.	This operation is invalid when Detection is in the RMS state.
Not available in Trigger On.	This operation is invalid when Trigger is in the On state.
Not available in Gate On.	This operation is invalid when Gate is in the On state.
Not available in Gate Off.	This operation is invalid when Gate is in the Off state.
Not available if not Trigger/Gate On	This operation is invalid when Trigger/Gate is not in the On state.
Not available if not Pre-Amplifier option.	This operation is not available unless Option 008/108/068/168/069/169 Pre-amplifier is installed.

Table A-1 Error Messages (Cont'd)

Message	Explanation
Not available in SG Marker Trigger.	This operation is invalid when SG Marker Trigger is used.
Not available if not Vector Signal Generator option.	This operation is invalid when Vector Signal Generator Option is not installed.
Standard Parameter isn't found.	Standard Parameter is not found.
Not available when Standard is set to OFF.	This operation is invalid when Standard is off.
Not available if not Nyquist or Root Nyquist filter.	This operation is invalid when Nyquist filter or root Nyquist filter is not selected.
Cal suspended	Calibration is suspended.
Invalid Button	Invalid key operation.
Not available because model name does not match.	Invalid operation because model name does not match.
Not available because option configuration does not match	Invalid operation because option configuration does not match.
Not available if save file name not input.	Invalid operation when save file name has not been input.
Not available over the maximum number of characters.	Invalid operation because maximum number of characters has been exceeded.
Hardware setting failure.	Hardware setting failed.
Media not found.	Media was not found.
Format error.	Media is not formatted.
File not found.	File was not found.
File Open error.	File Open failed.
File Close error.	File Close failed.
Read/Write error.	Read/Write failed.
Disk is full.	Free disc capacity is insufficient.
Not available in already saved maximum number of files in the selected device.	Invalid operation when maximum number of files has been saved to the specified device.
Undefined command header	Undefined command.
Invalid numeric data	Invalid numeric parameter.

Table A-1 Error Messages (Cont'd)

Message	Explanation
Not available in ACP and Burst Average Power Off.	The operation is invalid while ACP and Burst Average Power are set to Off.
Not available in ACP Off.	The operation is invalid while ACP is set to Off.
Not available in Burst Average Power Off.	The operation is invalid while Burst Average Power is set to Off.
Not available in Standard Off.	The operation is invalid while Standard is set to Off.
Not available when unsupported Standard Parameter is selected.	Standard Parameter does not support the noise canceling function.
Not available when Load Standard Parameter isn't executed.	It is necessary to execute Load Standard Parameter.
Not available while executing Noise Measurement.	It cannot be changed or modified during noise measurement.
Not available when ACP Reference is set to Span Total.	ACP Reference is set to Span Total.
Not available if not Reference Mode Fix.	The operation is invalid while Reference Mode is set to Fix.
Not available if not Reference Mode Channel.	The operation is invalid while Reference Mode is set to Channel.
Not available in Spectrum Emission Mask On.	The operation is invalid while Spectrum Emission Mask is set to On.
Not available in Spectrum Emission Mask Off.	The operation is invalid while Spectrum Emission Mask is set to Off.
Not available if not RMS detection.	The operation is invalid while Detection is set to RMS.
Not available in Measure On.	The operation is invalid while Measure is set to On.
The active marker cannot be set.	Active Marker cannot be set.
The target marker cannot be set.	Target Marker cannot be set.
Not available when Marker Result isn't set to Peak.	The operation is invalid while Marker Result is set to other than Peak.
Not Available in Couple Ref&ATT On.	The operation is invalid while Couple Ref&ATT is set to On.
Not available in Segment Off.	The operation is invalid while Segment is set to Off.
Cannot set all segments to Off at the same time.	You cannot set all the segments to Off at the same time.
Not available in Spurious Emission On.	The operation is invalid while Spurious Emission is set to On.
No Parameter.	There is no parameter.
Not available in Time Domain Measurement On.	The operation is invalid while Time Domain Measurement is set to On.
Not available during measurement, and Displayed Segment Mode is set to Auto.	This command is invalid during measurement and when Displayed Segment Mode is set to Auto.
Available in remote control state with Spurious Emission paused.	This command can use only when the MS2830A/MS2840A is set to remote control state and Spurious Emission is paused.

Table A-1 Error Messages (Cont'd)

Message	Explanation
Not available when Gate View is set to Off.	The operation is invalid when Gate View is set to Off.
Not available when all traces are set to Blank.	The operation is invalid when all traces are set to Blank.
Not available when Spurious Emission is set to Off.	The operation is invalid when Spurious Emission is set to Off.
Not available when Spectrum Emission Mask is set to On and Gate View is set to Off.	The operation is invalid when Spectrum Emission Mask is set to On and when Gate View is set to Off.
Not available when Spurious Emission is set to On and Gate View is set to Off.	The operation is invalid when Spurious Emission is set to On and when Gate View is set to Off.
Not available when Trigger Source is set to Video	The operation is invalid when Trigger Source is set to Video.
Not available in Trigger On	The operation is invalid when Trigger is set to On.
Not available when Marker Result isn't set to Peak.	The operation is invalid if Marker Result is not set to Peak.
Not available in Noise Cancel On	The operation is invalid if Noise Cancel is set to On.
Not available in RBW < 30Hz	The operation is invalid when RBW is < 30 Hz.
Not available in Freq. Count Off	The operation is invalid when Frequency Counter is set to Off.
Not available in Spectrum Emission Mask On	The operation is invalid when Spectrum Emission Mask is set to On.
Not available in Spurious Emission On	The operation is invalid when Spurious Emission is set to On.
Not available when Sweep Time is set to Manual	The operation is invalid when Sweep Time is set to Manual.
Not available when Sweep Type Rules isn't set to FFT Priority	FFT Width is invalid when Sweep Type Rules is not set to FFT Priority.
Not available in FFT sweep	The operation is invalid when in FFT sweep.
Not available RBW < 30Hz in Time Domain	When Time Domain is displayed, setting of RBW < 30 Hz is not available.
Not available RBW < 30Hz when Auto Sweep Type Rules set to Swept Only	When Auto Sweep Type Rules is Swept Only, setting of RBW < 30 Hz is not available.
Invalid character	–
Not available in External Mixer On.	The following restrictions will apply when External Mixer is set to On. ● Spurious Emission measurement cannot be set to On. ● ATT cannot be set. (fixed to 60 dB.) ● Preselector function menu becomes unavailable. ● Pre-AMP is fixed to OFF. ● Microwave Preselector Bypass cannot be set. ● Frequency Band Mode cannot be set.

Table A-1 Error Messages (Cont'd)

Message	Explanation
Not available in External Mixer Off.	External Mixer Band Select, External Mixer Bias, Conversion Loss, Cable Loss, Signal ID, Signal ID Mode cannot be set with External Mixer set to Off. External Mixer Calibration cannot be performed when External Mixer is Off.
Not available in Measure On.	Signal ID cannot be set to On when Measure function is On. External Mixer Calibration cannot be performed when the Measure function is On.
Not available in Signal ID On.	Measure function cannot be set to On when Signal ID is On. PS Center cannot be set to On when Signal ID is On.
Not available in PS Center On.	Signal ID cannot be set to On when PS Center is On. Auto Swp Type Rules cannot be set when PS Center is On.
Not available in High Performance Waveguide Mixer.	External Mixer Bias cannot be set when External Mixer Band Select is VHP or EHP. (VHP and EHP are for High Performance Waveguide Mixer.)
Only available in High Performance Waveguide Mixer.	External Mixer Calibration cannot be performed when External Mixer Band Select is other than VHP and EHP. (VHP and EHP are for High Performance Waveguide Mixer.)
Not available in mode Fixed.	Conversion Loss Table cannot be set when Conversion Loss Mode is Fixed.
Not available in mode Table.	Conversion Loss cannot be set when Conversion Loss Mode is Table.
Not available in Microwave Preselector Bypass On.	Preselector Auto Tune cannot be executed when Preselector Bypass is set to On.
Not available in Frequency Span > 500 MHz.	—
Not available in frequency band without the Preselector pass frequency band.	—
Not available when Frequency Span is set over multiple band.	—

MS2830A

Frequency			
	Center	1.8 GHz	(MS2830A-040)
		3 GHz	(MS2830A-041)
		6.75 GHz	(MS2830A-043)
		13.25 GHz	(MS2830A-044)
		21.5 GHz	(MS2830A-045)
	Start	0 Hz	
	Stop	3.6 GHz	(MS2830A-040)
		6 GHz	(MS2830A-041)
		13.5 GHz	(MS2830A-043)
		26.5 GHz	(MS2830A-044)
		43 GHz	(MS2830A-045)
	Switching Speed	Normal (Best Phase Noise)	
	Preselector Auto Tune	Off	
	Offset	Off, 0 Hz	
	Step Size	1 GHz	
	External Mixer	Off	
	Band Select	A+	
	Bias	0.0 mA	
	Conversion Loss Mode	Fixed	
	Conversion Loss	15.00 dB	
	Signal ID	Off	
	Signal ID Mode	Image Shift	
	PS Center	Off	
	Microwave Preselector Bypass	Off	
Span			
	Span	3.6 GHz	(MS2830A-040)
		6 GHz	(MS2830A-041)
		13.5 GHz	(MS2830A-043)
		26.5 GHz	(MS2830A-044)
		43 GHz	(MS2830A-045)
	Couple Time/Frequency Domain		
		On	
	Frequency Band Mode	Normal	
		(only MS2830A-041/043/044/045)	
Amplitude			
	Reference Level	0 dBm	
	Attenuator	Auto, 10 dB	
	Log Scale Unit	dBm	
	Scale	Log	
	Log Scale Division	10 dB/Div	
	Log Scale Line	10	
	Offset	Off, 0 dB	

Pre-amp	Off	
BW		
RBW	Auto, 3 MHz	
VBW	Auto, 3 MHz	
VBW Mode	Power	
Marker		
Active Marker	Marker1	
Marker Mode	Normal	
Zone Width	360 MHz	(MS2830A-040)
	600 MHz	(MS2830A-041)
	1.35 GHz	(MS2830A-043)
	2.65 GHz	(MS2830A-044)
	4.3 GHz	(MS2830A-045)
Marker Trace	A	
Marker Result	Peak	
Marker Type	Zone	
Couple Zone	On	
Spot Line	On	
Marker List	Off	
Frequency Count	Off	
Gate Time	100 ms	
Relative to	Marker2 (Active Marker is 1)	
	Marker3 (Active Marker is 2)	
	Marker4 (Active Marker is 3)	
	Marker5 (Active Marker is 4)	
	Marker6 (Active Marker is 5)	
	Marker7 (Active Marker is 6)	
	Marker8 (Active Marker is 7)	
	Marker9 (Active Marker is 8)	
	Marker10 (Active Marker is 9)	
	Marker1 (Active Marker is 10)	
Trace		
Trace-A Trace Type	Write	
Trace-B Trace Type	Blank	
Trace-C Trace Type	Blank	
Trace-D Trace Type	Blank	
Trace-E Trace Type	Blank	
Trace-F Trace Type	Blank	
Trace-A Storage Mode	Off	
Trace-B Storage Mode	Off	
Trace-C Storage Mode	Off	
Trace-D Storage Mode	Off	
Trace-E Storage Mode	Off	

Trace-F Storage Mode	Off
Storage Count	10
Limits	
Limit 1 to 6	
Type	On
Limit Display	Off
Limit Test	Off
Margin	Off
Margin Value	0 dB
Edit	
Point	1
Frequency	Center Frequency
Connected to Previous Pt	On
Previous Pt Level Offset	0.0 dB
Envelope	
Points	41
Offset	3.0 dB
Shape	Slope
Limit Line Type (Frequency)	Rel
Limit Line Type (Amplitude)	Abs
Mirror Limit	Off
Detection	Pos & Neg

Trigger/Gate		
Trigger Switch	Off	
Trigger Source	Video	
Trigger Slope	Rise	
Trigger Level (Video)	–40 dBm	
Trigger Level (Wide IF Video)	–20 dBm	
Trigger Hold	Off	
Trigger Hold	100 µs	
Trigger Delay	0 s	
Gate Sweep	Off	
Gate View	Off	
Gate Delay	0 s	
Gate Length	1.0 ms	
Gate Source	External	
Gate Slope	Rise	
Gate Level (Wide IF Video)	–20 dBm	
Gate Hold	Off	
Gate Hold	100 µs	
Gate View Setting		
Sweep Time	100 ms	
RBW	Auto, 3 MHz	
VBW	Auto, 3 MHz	
Detection	Pos & Neg	
Trace Point	10001	
Gate View Frequency		
	Auto, 1.8 GHz	(MS2830A-040)
	Auto, 3 GHz	(MS2830A-041)
	Auto, 6.75 GHz	(MS2830A-043)
	Auto, 13.25 GHz	(MS2830A-044)
	Auto, 21.5 GHz	(MS2830A-045)
Reference Level	0 dBm	
Attenuator	Auto, 10 dB	
Pre-Amp	Off	
Frame Sync Setup	Off	
Frame Trigger Period	10 ms	
Frame Sync Offset	0 s	

Time/Sweep

Sweep Time (Frequency Domain)		
	Auto, 1 ms	(MS2830A-040)
	Auto, 2 ms	(MS2830A-041)
	Auto, 4 ms	(MS2830A-043)
	Auto, 89 ms	(MS2830A-044)
	Auto, 86 ms	(MS2830A-045)
Sweep Time (Time Domain)	100 ms	
Auto Sweep Time Select	Fast	
Auto Sweep Type Rules	Dynamic Range	
FFT width	≤ 40 kHz	
Trace Point	10001	

Peak Search

Resolution	2 dB
Threshold	Off, Above
Threshold Level	–50 dBm
Search Peaks Number	10

Save on Event

Save on Event	Off
Event Type	Limit Fail
Save then Stop	Off
File Name	LIM

Accessory

Title	On, “Spectrum Analyzer”
Uncal Message	On
Reference Clock	Value adjusted at factory shipping

Measure

ACP

On/Off	Off
ACP Reference	Both Sides of Carriers
Offset Ch BW	3.84 MHz
Carrier BW	3.84 MHz
In Band Center	Center Frequency
Carrier Spacing	5 MHz
Offset-1	On, 5 MHz
Offset-2	On, 10 MHz
Offset-3	Off, 15 MHz
In Band Filter Type	Root Nyquist
Offset Ch Filter Type	Root Nyquist
In Band Roll-off Factor	0.22
Offset Ch Roll-off Factor	0.22
Noise Cancel	Off
Power Result Type	Offset
Carrier Number	1

Burst Average Power

On/Off	Off
Start Time	0 s
Stop Time	100 ms
Noise Cancel	Off

Channel Power

On/Off	Off
Channel Center	Center Frequency
Channel Width	3.84 MHz
Filter Type	Root Nyquist
Roll-off Factor	0.22

OBW

On/Off	Off
Method	N%
N% of Ratio	99%
XdB Value	25 dB

Standard Off

Spectrum Emission Mask	
On/Off	Off
Limit Side	Both
Result Type	Peak
Reference Mode	Channel
Reference Power	0 dBm
Channel BW	3.84 MHz
Attenuator	Auto, 10 dB
RBW Auto/Manual	Manual, 30 kHz
VBW Auto/Manual	Auto, 30 kHz
VBW Mode	Power
Sweep Time	Auto, 4 ms
Auto Sweep Time Select	Fast
Detection	RMS
Trace Point	1001
Filter Type	Root Nyquist
Roll-off Factor	0.22
Couple Ref&ATT	On
Edit Offset Number	1
Offset-1	
Offset	On
Start Freq	2.515 MHz
Stop Freq	2.715 MHz
Reference Level	Auto, 0 dBm
Attenuator	Auto, 10 dB
RBW	Manual, 30 kHz
VBW	Auto, 30 kHz
VBW Mode	Power
Sweep Time	Auto, 1 ms
Auto Sweep Time Select	Fast
Detection	RMS
Trace Point	1001
Integrate BW	Auto, 30 kHz
ABS1 Start Level	–12.5 dBm
ABS1 Stop Level	–12.5 dBm
REL Start Level	0 dB
REL Stop Level	0 dB
ABS2 Start Level	–15 dBm
ABS2 Stop Level	–15 dBm
Fail Logic	ABS1

Offset-2

Offset	On
Start Freq	2.715 MHz
Stop Freq	3.515 MHz
Reference Level	Auto, 0 dBm
Attenuator	Auto, 10 dB
RBW	Manual, 30 kHz
VBW	Auto, 30 kHz
VBW Mode	Power
Sweep Time	Auto, 1 ms
Auto Sweep Time Select	Fast
Detection	RMS
Trace Point	1001
Integrate BW	Auto, 30 kHz
ABS1 Start Level	–12.5 dBm
ABS1 Stop Level	–24.5 dBm
REL Start Level	0 dB
REL Stop Level	0 dB
ABS2 Start Level	–15 dBm
ABS2 Stop Level	–15 dBm
Fail Logic	ABS1

Offset-3

Offset	On
Start Freq	3.515 MHz
Stop Freq	4 MHz
Reference Level	Auto, 0 dBm
Attenuator	Auto, 10 dB
RBW	Manual, 30 kHz
VBW	Auto, 30 kHz
VBW Mode	Power
Sweep Time	Auto, 1 ms
Auto Sweep Time Select	Fast
Detection	RMS
Trace Point	1001
Integrate BW	Auto, 30 kHz
ABS1 Start Level	–24.5 dBm
ABS1 Stop Level	–24.5 dBm
REL Start Level	0 dB
REL Stop Level	0 dB
ABS2 Start Level	–15 dBm
ABS2 Stop Level	–15 dBm
Fail Logic	ABS1

Offset-4

Offset	On
Start Freq	4 MHz
Stop Freq	8 MHz
Reference Level	Auto, 0 dBm
Attenuator	Auto, 10 dB
RBW	Manual, 1 MHz
VBW	Auto, 1 MHz
VBW Mode	Power
Sweep Time	Auto, 1 ms
Auto Sweep Time Select	Fast
Detection	RMS
Trace Point	1001
Integrate BW	Auto, 1 MHz
ABS1 Start Level	–11.5 dBm
ABS1 Stop Level	–11.5 dBm
REL Start Level	0 dB
REL Stop Level	0 dB
ABS2 Start Level	–13 dBm
ABS2 Stop Level	–13 dBm
Fail Logic	ABS1

Offset-5

Offset	On
Start Freq	8 MHz
Stop Freq	12.5 MHz
Reference Level	Auto, 0 dBm
Attenuator	Auto, 10 dB
RBW	Manual, 1 MHz
VBW	Auto, 30 kHz
VBW Mode	Power
Sweep Time	Auto, 1 ms
Auto Sweep Time Select	Fast
Detection	RMS
Trace Point	1001
Integrate BW	Auto, 1 MHz
ABS1 Start Level	–11.5 dBm
ABS1 Stop Level	–11.5 dBm
REL Start Level	0 dB
REL Stop Level	0 dB
ABS2 Start Level	–13 dBm
ABS2 Stop Level	–13 dBm
Fail Logic	ABS1

Offset-6

Offset	Off
Start Freq	12.5 MHz
Stop Freq	15 MHz
Reference Level	Auto, 0 dBm
Attenuator	Auto, 10 dB
RBW	Manual, 1 MHz
VBW	Auto, 30 kHz
VBW Mode	Power
Sweep Time	Auto, 1 ms
Auto Sweep Time Select	Fast
Detection	RMS
Trace Point	1001
Integrate BW	Auto, 1 MHz
ABS1 Start Level	–11.5 dBm
ABS1 Stop Level	–11.5 dBm
REL Start Level	0 dB
REL Stop Level	0 dB
ABS2 Start Level	–13 dBm
ABS2 Stop Level	–13 dBm
Fail Logic	Off

Spurious Emission

On/Off	Off
Displayed Segment	1
Page of Summary	Auto
Result Type	Worst
Time Domain Measurement	Off
Fail Stop	Off
Displayed Segment Mode	Auto
Displayed Summary Table	Result

Segment-1

Segment Setup

Segment

MS2830A-040 : On
MS2830A-041 : On
MS2830A-043 : On
MS2830A-044 : On
MS2830A-045 : On

Start Freq

MS2830A-040 : 9 kHz
MS2830A-041 : 9 kHz
MS2830A-043 : 9 kHz
MS2830A-044 : 9 kHz
MS2830A-045 : 9 kHz

Stop Freq

MS2830A-040 : 150 kHz
MS2830A-041 : 150 kHz
MS2830A-043 : 150 kHz
MS2830A-044 : 150 kHz
MS2830A-045 : 150 kHz

Reference Level 0 dBm

Attenuator Auto, 10 dB

Detection Positive

RBW

MS2830A-040 : Manual, 1 kHz
MS2830A-041 : Manual, 1 kHz
MS2830A-043 : Manual, 1 kHz
MS2830A-044 : Manual, 1 kHz
MS2830A-045 : Manual, 1 kHz

VBW

MS2830A-040 : Auto, 1 kHz
MS2830A-041 : Auto, 1 kHz
MS2830A-043 : Auto, 1 kHz
MS2830A-044 : Auto, 1 kHz
MS2830A-045 : Auto, 1 kHz

Sweep Time

MS2830A-040 : Auto, 84 ms
MS2830A-041 : Auto, 84 ms
MS2830A-043 : Auto, 84 ms
MS2830A-044 : Auto, 84 ms
MS2830A-045 : Auto, 84 ms

Trace Point 1001

Couple Storage Count On

Storage Count 10

- Pause before Sweep Off
- Correction Common
- Preamp Off

Limit Setup

- Start Level –13 dBm
- Stop Level Auto, –13 dBm
- Search Resolution 6 dB
- Threshold Level –90 dBm

Time Domain Setup

- Couple Segment RBW
  - MS2830A-040 : On, 1 kHz
  - MS2830A-041 : On, 1 kHz
  - MS2830A-043 : On, 1 kHz
  - MS2830A-044 : On, 1 kHz
  - MS2830A-045 : On, 1 kHz
- Couple Segment VBW
  - MS2830A-040 : On, 1 kHz
  - MS2830A-041 : On, 1 kHz
  - MS2830A-043 : On, 1 kHz
  - MS2830A-044 : On, 1 kHz
  - MS2830A-045 : On, 1 kHz
- Sweep Time 100 ms
- Detection RMS

Segment-2

Segment Setup

Segment

MS2830A-040 : On
MS2830A-041 : On
MS2830A-043 : On
MS2830A-044 : On
MS2830A-045 : On

Start Freq

MS2830A-040 : 150 kHz
MS2830A-041 : 150 kHz
MS2830A-043 : 150 kHz
MS2830A-044 : 150 kHz
MS2830A-045 : 150 kHz

Stop Freq

MS2830A-040 : 30 MHz
MS2830A-041 : 30 MHz
MS2830A-043 : 30 MHz
MS2830A-044 : 30 MHz
MS2830A-045 : 30 MHz

Reference Level 0 dBm
Attenuator Auto, 10 dB
Detection Positive
RBW

MS2830A-040 : Manual, 10 kHz
MS2830A-041 : Manual, 10 kHz
MS2830A-043 : Manual, 10 kHz
MS2830A-044 : Manual, 10 kHz
MS2830A-045 : Manual, 10 kHz

VBW

MS2830A-040 : Auto, 10 kHz
MS2830A-041 : Auto, 10 kHz
MS2830A-043 : Auto, 10 kHz
MS2830A-044 : Auto, 10 kHz
MS2830A-045 : Auto, 10 kHz

Sweep Time

MS2830A-040 : Auto, 117 ms
MS2830A-041 : Auto, 117 ms
MS2830A-043 : Auto, 117 ms
MS2830A-044 : Auto, 177 ms
MS2830A-045 : Auto, 177 ms

Trace Point 5001
Couple Storage Count On
Storage Count 10

- Pause before Sweep Off
- Correction Common
- Preamp Off

Limit Setup

- Start Level –13 dBm
- Stop Level Auto, –13 dBm
- Search Resolution 6 dB
- Threshold Level –90 dBm

Time Domain Setup

- Couple Segment RBW
  - MS2830A-040 : On, 10 kHz
  - MS2830A-041 : On, 10 kHz
  - MS2830A-043 : On, 10 kHz
  - MS2830A-044 : On, 10 kHz
  - MS2830A-045 : On, 10 kHz
- Couple Segment VBW
  - MS2830A-040 : On, 10 kHz
  - MS2830A-041 : On, 10 kHz
  - MS2830A-043 : On, 10 kHz
  - MS2830A-044 : On, 10 kHz
  - MS2830A-045 : On, 10 kHz
- Sweep Time 100 ms
- Detection RMS

Segment-3

Segment Setup

Segment

MS2830A-040 : On
MS2830A-041 : On
MS2830A-043 : On
MS2830A-044 : On
MS2830A-045 : On

Start Freq

MS2830A-040 : 30 MHz
MS2830A-041 : 30 MHz
MS2830A-043 : 30 MHz
MS2830A-044 : 30 MHz
MS2830A-045 : 30 MHz

Stop Freq

MS2830A-040 : 1 GHz
MS2830A-041 : 1 GHz
MS2830A-043 : 1 GHz
MS2830A-044 : 1 GHz
MS2830A-045 : 1 GHz

Reference Level 0 dBm

Attenuator Auto, 10 dB

Detection Positive

RBW

MS2830A-040 : Manual, 100 kHz
MS2830A-041 : Manual, 100 kHz
MS2830A-043 : Manual, 100 kHz
MS2830A-044 : Manual, 100 kHz
MS2830A-045 : Manual, 100 kHz

VBW

MS2830A-040 : Auto, 100 kHz
MS2830A-041 : Auto, 100 kHz
MS2830A-043 : Auto, 100 kHz
MS2830A-044 : Auto, 100 kHz
MS2830A-045 : Auto, 100 kHz

Sweep Time

MS2830A-040 : Auto, 58 ms
MS2830A-041 : Auto, 58 ms
MS2830A-043 : Auto, 58 ms
MS2830A-044 : Auto, 58 ms
MS2830A-045 : Auto, 58 ms

Trace Point 10001

Couple Storage Count On

Storage Count 10

- Pause before Sweep Off
- Correction Common
- Preamp Off

Limit Setup

- Start Level –13 dBm
- Stop Level Auto, –13 dBm
- Search Resolution 6 dB
- Threshold Level –90 dBm

Time Domain Setup

- Couple Segment RBW
  - MS2830A-040 : On, 100 kHz
  - MS2830A-041 : On, 100 kHz
  - MS2830A-043 : On, 100 kHz
  - MS2830A-044 : On, 100 kHz
  - MS2830A-045 : On, 100 kHz
- Couple Segment VBW
  - MS2830A-040 : On, 100 kHz
  - MS2830A-041 : On, 100 kHz
  - MS2830A-043 : On, 100 kHz
  - MS2830A-044 : On, 100 kHz
  - MS2830A-045 : On, 100 kHz
- Sweep Time 100 ms
- Detection RMS

Segment-4

Segment Setup

Segment

MS2830A-040 : On
MS2830A-041 : On
MS2830A-043 : On
MS2830A-044 : On
MS2830A-045 : On

Start Freq

MS2830A-040 : 1 GHz
MS2830A-041 : 1 GHz
MS2830A-043 : 1 GHz
MS2830A-044 : 1 GHz
MS2830A-045 : 1 GHz

Stop Freq

MS2830A-040 : 2 GHz
MS2830A-041 : 2 GHz
MS2830A-043 : 2 GHz
MS2830A-044 : 2 GHz
MS2830A-045 : 2 GHz

Reference Level 0 dBm

Attenuator Auto, 10 dB

Detection Positive

RBW

MS2830A-040 : Manual, 1 MHz
MS2830A-041 : Manual, 1 MHz
MS2830A-043 : Manual, 1 MHz
MS2830A-044 : Manual, 1 MHz
MS2830A-045 : Manual, 1 MHz

VBW

MS2830A-040 : Auto, 1 MHz
MS2830A-041 : Auto, 1 MHz
MS2830A-043 : Auto, 1 MHz
MS2830A-044 : Auto, 1 MHz
MS2830A-045 : Auto, 1 MHz

Sweep Time

MS2830A-040 : Auto, 1 ms
MS2830A-041 : Auto, 1 ms
MS2830A-043 : Auto, 1 ms
MS2830A-044 : Auto, 1 ms
MS2830A-045 : Auto, 1 ms

Trace Point 10001

Couple Storage Count On

Storage Count 10

- Pause before Sweep Off
- Correction Common
- Preamp Off

Limit Setup

- Start Level –13 dBm
- Stop Level Auto, –13 dBm
- Search Resolution 6 dB
- Threshold Level –90 dBm

Time Domain Setup

- Couple Segment RBW
  - MS2830A-040 : On, 1 MHz
  - MS2830A-041 : On, 1 MHz
  - MS2830A-043 : On, 1 MHz
  - MS2830A-044 : On, 1 MHz
  - MS2830A-045 : On, 1 MHz
- Couple Segment VBW
  - MS2830A-040 : On, 1 MHz
  - MS2830A-041 : On, 1 MHz
  - MS2830A-043 : On, 1 MHz
  - MS2830A-044 : On, 1 MHz
  - MS2830A-045 : On, 1 MHz
- Sweep Time 100 ms
- Detection RMS

Segment-5

Segment Setup

Segment

MS2830A-040 : On
MS2830A-041 : On
MS2830A-043 : On
MS2830A-044 : On
MS2830A-045 : On

Start Freq

MS2830A-040 : 2 GHz
MS2830A-041 : 2 GHz
MS2830A-043 : 2 GHz
MS2830A-044 : 2 GHz
MS2830A-045 : 2 GHz

Stop Freq

MS2830A-040 : 3 GHz
MS2830A-041 : 3 GHz
MS2830A-043 : 3 GHz
MS2830A-044 : 3 GHz
MS2830A-045 : 3 GHz

Reference Level 0 dBm

Attenuator Auto, 10 dB

Detection Positive

RBW

MS2830A-040 : Manual, 1 MHz
MS2830A-041 : Manual, 1 MHz
MS2830A-043 : Manual, 1 MHz
MS2830A-044 : Manual, 1 MHz
MS2830A-045 : Manual, 1 MHz

VBW

MS2830A-040 : Auto, 1 MHz
MS2830A-041 : Auto, 1 MHz
MS2830A-043 : Auto, 1 MHz
MS2830A-044 : Auto, 1 MHz
MS2830A-045 : Auto, 1 MHz

Sweep Time

MS2830A-040 : Auto, 1 ms
MS2830A-041 : Auto, 1 ms
MS2830A-043 : Auto, 1 ms
MS2830A-044 : Auto, 1 ms
MS2830A-045 : Auto, 1 ms

Trace Point 10001

Couple Storage Count On

Storage Count 10

- Pause before Sweep: Off
- Correction: Common
- Preamp: Off

Limit Setup

- Start Level: –13 dBm
- Stop Level: Auto, –13 dBm
- Search Resolution: 6 dB
- Threshold Level: –90 dBm

Time Domain Setup

- Couple Segment RBW
  - MS2830A-040 : On, 1 MHz
  - MS2830A-041 : On, 1 MHz
  - MS2830A-043 : On, 1 MHz
  - MS2830A-044 : On, 1 MHz
  - MS2830A-045 : On, 1 MHz
- Couple Segment VBW
  - MS2830A-040 : On, 1 MHz
  - MS2830A-041 : On, 1 MHz
  - MS2830A-043 : On, 1 MHz
  - MS2830A-044 : On, 1 MHz
  - MS2830A-045 : On, 1 MHz
- Sweep Time: 100 ms
- Detection: RMS

Segment-6

Segment Setup

Segment

MS2830A-040 : On
MS2830A-041 : On
MS2830A-043 : On
MS2830A-044 : On
MS2830A-045 : On

Start Freq

MS2830A-040 : 3 GHz
MS2830A-041 : 3 GHz
MS2830A-043 : 3 GHz
MS2830A-044 : 3 GHz
MS2830A-045 : 3 GHz

Stop Freq

MS2830A-040 : 3.6 GHz
MS2830A-041 : 4 GHz
MS2830A-043 : 4 GHz
MS2830A-044 : 4 GHz
MS2830A-045 : 4 GHz

Reference Level 0 dBm

Attenuator Auto, 10 dB

Detection Positive

RBW

MS2830A-040 : Manual, 1 MHz
MS2830A-041 : Manual, 1 MHz
MS2830A-043 : Manual, 1 MHz
MS2830A-044 : Manual, 1 MHz
MS2830A-045 : Manual, 1 MHz

VBW

MS2830A-040 : Auto, 1 MHz
MS2830A-041 : Auto, 1 MHz
MS2830A-043 : Auto, 1 MHz
MS2830A-044 : Auto, 1 MHz
MS2830A-045 : Auto, 1 MHz

Sweep Time

MS2830A-040 : Auto, 1 ms
MS2830A-041 : Auto, 1 ms
MS2830A-043 : Auto, 1 ms
MS2830A-044 : Auto, 1 ms
MS2830A-045 : Auto, 1 ms

Trace Point 10001

Couple Storage Count On

Storage Count 10

- Pause before Sweep: Off
- Correction: Common
- Preamp: Off

Limit Setup

- Start Level: –13 dBm
- Stop Level: Auto, –13 dBm
- Search Resolution: 6 dB
- Threshold Level: –90 dBm

Time Domain Setup

- Couple Segment RBW
  - MS2830A-040 : On, 1 MHz
  - MS2830A-041 : On, 1 MHz
  - MS2830A-043 : On, 1 MHz
  - MS2830A-044 : On, 1 MHz
  - MS2830A-045 : On, 1 MHz
- Couple Segment VBW
  - MS2830A-040 : On, 1 MHz
  - MS2830A-041 : On, 1 MHz
  - MS2830A-043 : On, 1 MHz
  - MS2830A-044 : On, 1 MHz
  - MS2830A-045 : On, 1 MHz
- Sweep Time: 100 ms
- Detection: RMS

Segment-7

Segment Setup

Segment

MS2830A-040 : Off
MS2830A-041 : On
MS2830A-043 : On
MS2830A-044 : On
MS2830A-045 : On

Start Freq

MS2830A-040 : 1 GHz
MS2830A-041 : 4 GHz
MS2830A-043 : 4 GHz
MS2830A-044 : 4 GHz
MS2830A-045 : 4 GHz

Stop Freq

MS2830A-040 : 3.6 GHz
MS2830A-041 : 5 GHz
MS2830A-043 : 5 GHz
MS2830A-044 : 5 GHz
MS2830A-045 : 5 GHz

Reference Level 0 dBm

Attenuator Auto, 10 dB

Detection Positive

RBW

MS2830A-040 : Auto, 3 MHz
MS2830A-041 : Manual, 1 MHz
MS2830A-043 : Manual, 1 MHz
MS2830A-044 : Manual, 1 MHz
MS2830A-045 : Manual, 1 MHz

VBW

MS2830A-040 : Auto, 3 MHz
MS2830A-041 : Auto, 1 MHz
MS2830A-043 : Auto, 1 MHz
MS2830A-044 : Auto, 1 MHz
MS2830A-045 : Auto, 1 MHz

Sweep Time

MS2830A-040 : Auto, 1 ms
MS2830A-041 : Auto, 1 ms
MS2830A-043 : Auto, 1 ms
MS2830A-044 : Auto, 1 ms
MS2830A-045 : Auto, 1 ms

Trace Point 10001

Couple Storage Count On

Storage Count 10

- Pause before Sweep: Off
- Correction: Common
- Preamp: Off

Limit Setup

- Start Level: –13 dBm
- Stop Level: Auto, –13 dBm
- Search Resolution: 6 dB
- Threshold Level: –90 dBm

Time Domain Setup

- Couple Segment RBW
  - MS2830A-040 : On, 3 MHz
  - MS2830A-041 : On, 1 MHz
  - MS2830A-043 : On, 1 MHz
  - MS2830A-044 : On, 1 MHz
  - MS2830A-045 : On, 1 MHz
- Couple Segment VBW
  - MS2830A-040 : On, 3 MHz
  - MS2830A-041 : On, 1 MHz
  - MS2830A-043 : On, 1 MHz
  - MS2830A-044 : On, 1 MHz
  - MS2830A-045 : On, 1 MHz
- Sweep Time: 100 ms
- Detection: RMS

Segment-8

Segment Setup

Segment

MS2830A-040 : Off
MS2830A-041 : On
MS2830A-043 : On
MS2830A-044 : On
MS2830A-045 : On

Start Freq

MS2830A-040 : 1 GHz
MS2830A-041 : 5 GHz
MS2830A-043 : 5 GHz
MS2830A-044 : 5 GHz
MS2830A-045 : 5 GHz

Stop Freq

MS2830A-040 : 3.6 GHz
MS2830A-041 : 6 GHz
MS2830A-043 : 6 GHz
MS2830A-044 : 6 GHz
MS2830A-045 : 6 GHz

Reference Level 0 dBm

Attenuator Auto, 10 dB

Detection Positive

RBW

MS2830A-040 : Auto, 3 MHz
MS2830A-041 : Manual, 1 MHz
MS2830A-043 : Manual, 1 MHz
MS2830A-044 : Manual, 1 MHz
MS2830A-045 : Manual, 1 MHz

VBW

MS2830A-040 : Auto, 3 MHz
MS2830A-041 : Auto, 1 MHz
MS2830A-043 : Auto, 1 MHz
MS2830A-044 : Auto, 1 MHz
MS2830A-045 : Auto, 1 MHz

Sweep Time

MS2830A-040 : Auto, 1 ms
MS2830A-041 : Auto, 1 ms
MS2830A-043 : Auto, 1 ms
MS2830A-044 : Auto, 1 ms
MS2830A-045 : Auto, 1 ms

Trace Point 10001

Couple Storage Count On

Storage Count 10

- Pause before Sweep: Off
- Correction: Common
- Preamp: Off

Limit Setup

- Start Level: –13 dBm
- Stop Level: Auto, –13 dBm
- Search Resolution: 6 dB
- Threshold Level: –90 dBm

Time Domain Setup

- Couple Segment RBW
  - MS2830A-040 : On, 3 MHz
  - MS2830A-041 : On, 1 MHz
  - MS2830A-043 : On, 1 MHz
  - MS2830A-044 : On, 1 MHz
  - MS2830A-045 : On, 1 MHz
- Couple Segment VBW
  - MS2830A-040 : On, 3 MHz
  - MS2830A-041 : On, 1 MHz
  - MS2830A-043 : On, 1 MHz
  - MS2830A-044 : On, 1 MHz
  - MS2830A-045 : On, 1 MHz
- Sweep Time: 100 ms
- Detection: RMS

Segment-9

Segment Setup

Segment

MS2830A-040 : Off
MS2830A-041 : Off
MS2830A-043 : On
MS2830A-044 : On
MS2830A-045 : On

Start Freq

MS2830A-040 : 1 GHz
MS2830A-041 : 1 GHz
MS2830A-043 : 6 GHz
MS2830A-044 : 6 GHz
MS2830A-045 : 6 GHz

Stop Freq

MS2830A-040 : 3.6 GHz
MS2830A-041 : 6 GHz
MS2830A-043 : 7 GHz
MS2830A-044 : 7 GHz
MS2830A-045 : 7 GHz

Reference Level 0 dBm

Attenuator Auto, 10 dB

Detection Positive

RBW

MS2830A-040 : Auto, 3 MHz
MS2830A-041 : Auto, 3 MHz
MS2830A-043 : Manual, 1 MHz
MS2830A-044 : Manual, 1 MHz
MS2830A-045 : Manual, 1 MHz

VBW

MS2830A-040 : Auto, 3 MHz
MS2830A-041 : Auto, 3 MHz
MS2830A-043 : Auto, 1 MHz
MS2830A-044 : Auto, 1 MHz
MS2830A-045 : Auto, 1 MHz

Sweep Time

MS2830A-040 : Auto, 1 ms
MS2830A-041 : Auto, 2 ms
MS2830A-043 : Auto, 1 ms
MS2830A-044 : Auto, 4 ms
MS2830A-045 : Auto, 2 ms

Trace Point 10001

Couple Storage Count On

Storage Count 10

- Pause before Sweep: Off
- Correction: Common
- Preamp: Off

Limit Setup

- Start Level: –13 dBm
- Stop Level: Auto, –13 dBm
- Search Resolution: 6 dB
- Threshold Level: –90 dBm

Time Domain Setup

- Couple Segment RBW
  - MS2830A-040 : On, 3 MHz
  - MS2830A-041 : On, 3 MHz
  - MS2830A-043 : On, 1 MHz
  - MS2830A-044 : On, 1 MHz
  - MS2830A-045 : On, 1 MHz
- Couple Segment VBW
  - MS2830A-040 : On, 3 MHz
  - MS2830A-041 : On, 3 MHz
  - MS2830A-043 : On, 1 MHz
  - MS2830A-044 : On, 1 MHz
  - MS2830A-045 : On, 1 MHz
- Sweep Time: 100 ms
- Detection: RMS

Segment-10

Segment Setup

Segment

MS2830A-040 : Off
MS2830A-041 : Off
MS2830A-043 : On
MS2830A-044 : On
MS2830A-045 : On

Start Freq

MS2830A-040 : 1 GHz
MS2830A-041 : 1 GHz
MS2830A-043 : 7 GHz
MS2830A-044 : 7 GHz
MS2830A-045 : 7 GHz

Stop Freq

MS2830A-040 : 3.6 GHz
MS2830A-041 : 6 GHz
MS2830A-043 : 8 GHz
MS2830A-044 : 8 GHz
MS2830A-045 : 8 GHz

Reference Level 0 dBm

Attenuator Auto, 10 dB

Detection Positive

RBW

MS2830A-040 : Auto, 3 MHz
MS2830A-041 : Auto, 3 MHz
MS2830A-043 : Manual, 1 MHz
MS2830A-044 : Manual, 1 MHz
MS2830A-045 : Manual, 1 MHz

VBW

MS2830A-040 : Auto, 3 MHz
MS2830A-041 : Auto, 3 MHz
MS2830A-043 : Auto, 1 MHz
MS2830A-044 : Auto, 1 MHz
MS2830A-045 : Auto, 1 MHz

Sweep Time

MS2830A-040 : Auto, 1 ms
MS2830A-041 : Auto, 2 ms
MS2830A-043 : Auto, 1 ms
MS2830A-044 : Auto, 4 ms
MS2830A-045 : Auto, 2 ms

Trace Point 10001

Couple Storage Count On

Storage Count 10

- Pause before Sweep: Off
- Correction: Common
- Preamp: Off

Limit Setup

- Start Level: –13 dBm
- Stop Level: Auto, –13 dBm
- Search Resolution: 6 dB
- Threshold Level: –90 dBm

Time Domain Setup

- Couple Segment RBW
  - MS2830A-040 : On, 3 MHz
  - MS2830A-041 : On, 3 MHz
  - MS2830A-043 : On, 1 MHz
  - MS2830A-044 : On, 1 MHz
  - MS2830A-045 : On, 1 MHz
- Couple Segment VBW
  - MS2830A-040 : On, 3 MHz
  - MS2830A-041 : On, 3 MHz
  - MS2830A-043 : On, 1 MHz
  - MS2830A-044 : On, 1 MHz
  - MS2830A-045 : On, 1 MHz
- Sweep Time: 100 ms
- Detection: RMS

Segment-11

Segment Setup

Segment

MS2830A-040 : Off
MS2830A-041 : Off
MS2830A-043 : On
MS2830A-044 : On
MS2830A-045 : On

Start Freq

MS2830A-040 : 1 GHz
MS2830A-041 : 1 GHz
MS2830A-043 : 8 GHz
MS2830A-044 : 8 GHz
MS2830A-045 : 8 GHz

Stop Freq

MS2830A-040 : 3.6 GHz
MS2830A-041 : 6 GHz
MS2830A-043 : 9 GHz
MS2830A-044 : 9 GHz
MS2830A-045 : 9 GHz

Reference Level 0 dBm

Attenuator Auto, 10 dB

Detection Positive

RBW

MS2830A-040 : Auto, 3 MHz
MS2830A-041 : Auto, 3 MHz
MS2830A-043 : Manual, 1 MHz
MS2830A-044 : Manual, 1 MHz
MS2830A-045 : Manual, 1 MHz

VBW

MS2830A-040 : Auto, 3 MHz
MS2830A-041 : Auto, 3 MHz
MS2830A-043 : Auto, 1 MHz
MS2830A-044 : Auto, 1 MHz
MS2830A-045 : Auto, 1 MHz

Sweep Time

MS2830A-040 : Auto, 1 ms
MS2830A-041 : Auto, 2 ms
MS2830A-043 : Auto, 1 ms
MS2830A-044 : Auto, 4 ms
MS2830A-045 : Auto, 2 ms

Trace Point 10001

Couple Storage Count On

Storage Count 10

- Pause before Sweep: Off
- Correction: Common
- Preamp: Off

Limit Setup

- Start Level: –13 dBm
- Stop Level: Auto, –13 dBm
- Search Resolution: 6 dB
- Threshold Level: –90 dBm

Time Domain Setup

- Couple Segment RBW
  - MS2830A-040 : On, 3 MHz
  - MS2830A-041 : On, 3 MHz
  - MS2830A-043 : On, 1 MHz
  - MS2830A-044 : On, 1 MHz
  - MS2830A-045 : On, 1 MHz
- Couple Segment VBW
  - MS2830A-040 : On, 3 MHz
  - MS2830A-041 : On, 3 MHz
  - MS2830A-043 : On, 1 MHz
  - MS2830A-044 : On, 1 MHz
  - MS2830A-045 : On, 1 MHz
- Sweep Time: 100 ms
- Detection: RMS

Segment-12

Segment Setup

Segment

MS2830A-040 : Off
MS2830A-041 : Off
MS2830A-043 : On
MS2830A-044 : On
MS2830A-045 : On

Start Freq

MS2830A-040 : 1 GHz
MS2830A-041 : 1 GHz
MS2830A-043 : 9 GHz
MS2830A-044 : 9 GHz
MS2830A-045 : 9 GHz

Stop Freq

MS2830A-040 : 3.6 GHz
MS2830A-041 : 6 GHz
MS2830A-043 : 10 GHz
MS2830A-044 : 10 GHz
MS2830A-045 : 10 GHz

Reference Level 0 dBm

Attenuator Auto, 10 dB

Detection Positive

RBW

MS2830A-040 : Auto, 3 MHz
MS2830A-041 : Auto, 3 MHz
MS2830A-043 : Manual, 1 MHz
MS2830A-044 : Manual, 1 MHz
MS2830A-045 : Manual, 1 MHz

VBW

MS2830A-040 : Auto, 3 MHz
MS2830A-041 : Auto, 3 MHz
MS2830A-043 : Auto, 1 MHz
MS2830A-044 : Auto, 1 MHz
MS2830A-045 : Auto, 1 MHz

Sweep Time

MS2830A-040 : Auto, 1 ms
MS2830A-041 : Auto, 2 ms
MS2830A-043 : Auto, 1 ms
MS2830A-044 : Auto, 4 ms
MS2830A-045 : Auto, 2 ms

Trace Point 10001

Couple Storage Count On

Storage Count 10

- Pause before Sweep Off
- Correction Common
- Preamp Off

Limit Setup

- Start Level –13 dBm
- Stop Level Auto, –13 dBm
- Search Resolution 6 dB
- Threshold Level –90 dBm

Time Domain Setup

- Couple Segment RBW
  - MS2830A-040 : On, 3 MHz
  - MS2830A-041 : On, 3 MHz
  - MS2830A-043 : On, 1 MHz
  - MS2830A-044 : On, 1 MHz
  - MS2830A-045 : On, 1 MHz
- Couple Segment VBW
  - MS2830A-040 : On, 3 MHz
  - MS2830A-041 : On, 3 MHz
  - MS2830A-043 : On, 1 MHz
  - MS2830A-044 : On, 1 MHz
  - MS2830A-045 : On, 1 MHz
- Sweep Time 100 ms
- Detection RMS

Segment-13

Segment Setup

Segment

MS2830A-040 : Off
MS2830A-041 : Off
MS2830A-043 : On
MS2830A-044 : On
MS2830A-045 : On

Start Freq

MS2830A-040 : 1 GHz
MS2830A-041 : 1 GHz
MS2830A-043 : 10 GHz
MS2830A-044 : 10 GHz
MS2830A-045 : 10 GHz

Stop Freq

MS2830A-040 : 3.6 GHz
MS2830A-041 : 6 GHz
MS2830A-043 : 11 GHz
MS2830A-044 : 11 GHz
MS2830A-045 : 11 GHz

Reference Level 0 dBm

Attenuator Auto, 10 dB

Detection Positive

RBW

MS2830A-040 : Auto, 3 MHz
MS2830A-041 : Auto, 3 MHz
MS2830A-043 : Manual, 1 MHz
MS2830A-044 : Manual, 1 MHz
MS2830A-045 : Manual, 1 MHz

VBW

MS2830A-040 : Auto, 3 MHz
MS2830A-041 : Auto, 3 MHz
MS2830A-043 : Auto, 1 MHz
MS2830A-044 : Auto, 1 MHz
MS2830A-045 : Auto, 1 MHz

Sweep Time

MS2830A-040 : Auto, 1 ms
MS2830A-041 : Auto, 2 ms
MS2830A-043 : Auto, 1 ms
MS2830A-044 : Auto, 4 ms
MS2830A-045 : Auto, 2 ms

Trace Point 10001

Couple Storage Count On

Storage Count 10

- Pause before Sweep: Off
- Correction: Common
- Preamp: Off

Limit Setup

- Start Level: –13 dBm
- Stop Level: Auto, –13 dBm
- Search Resolution: 6 dB
- Threshold Level: –90 dBm

Time Domain Setup

- Couple Segment RBW
  - MS2830A-040 : On, 3 MHz
  - MS2830A-041 : On, 3 MHz
  - MS2830A-043 : On, 1 MHz
  - MS2830A-044 : On, 1 MHz
  - MS2830A-045 : On, 1 MHz
- Couple Segment VBW
  - MS2830A-040 : On, 3 MHz
  - MS2830A-041 : On, 3 MHz
  - MS2830A-043 : On, 1 MHz
  - MS2830A-044 : On, 1 MHz
  - MS2830A-045 : On, 1 MHz
- Sweep Time: 100 ms
- Detection: RMS

Segment-14

Segment Setup

Segment

MS2830A-040 : Off
MS2830A-041 : Off
MS2830A-043 : On
MS2830A-044 : On
MS2830A-045 : On

Start Freq

MS2830A-040 : 1 GHz
MS2830A-041 : 1 GHz
MS2830A-043 : 11 GHz
MS2830A-044 : 11 GHz
MS2830A-045 : 11 GHz

Stop Freq

MS2830A-040 : 3.6 GHz
MS2830A-041 : 6 GHz
MS2830A-043 : 12 GHz
MS2830A-044 : 12 GHz
MS2830A-045 : 12 GHz

Reference Level 0 dBm

Attenuator Auto, 10 dB

Detection Positive

RBW

MS2830A-040 : Auto, 3 MHz
MS2830A-041 : Auto, 3 MHz
MS2830A-043 : Manual, 1 MHz
MS2830A-044 : Manual, 1 MHz
MS2830A-045 : Manual, 1 MHz

VBW

MS2830A-040 : Auto, 3 MHz
MS2830A-041 : Auto, 3 MHz
MS2830A-043 : Auto, 1 MHz
MS2830A-044 : Auto, 1 MHz
MS2830A-045 : Auto, 1 MHz

Sweep Time

MS2830A-040 : Auto, 1 ms
MS2830A-041 : Auto, 2 ms
MS2830A-043 : Auto, 1 ms
MS2830A-044 : Auto, 4 ms
MS2830A-045 : Auto, 2 ms

Trace Point 10001

Couple Storage Count On

Storage Count 10

- Pause before Sweep Off
- Correction Common
- Preamp Off

Limit Setup

- Start Level –13 dBm
- Stop Level Auto, –13 dBm
- Search Resolution 6 dB
- Threshold Level –90 dBm

Time Domain Setup

- Couple Segment RBW
  - MS2830A-040 : On, 3 MHz
  - MS2830A-041 : On, 3 MHz
  - MS2830A-043 : On, 1 MHz
  - MS2830A-044 : On, 1 MHz
  - MS2830A-045 : On, 1 MHz
- Couple Segment VBW
  - MS2830A-040 : On, 3 MHz
  - MS2830A-041 : On, 3 MHz
  - MS2830A-043 : On, 1 MHz
  - MS2830A-044 : On, 1 MHz
  - MS2830A-045 : On, 1 MHz
- Sweep Time 100 ms
- Detection RMS

Segment-15

Segment Setup

Segment

MS2830A-040 : Off
MS2830A-041 : Off
MS2830A-043 : On
MS2830A-044 : On
MS2830A-045 : On

Start Freq

MS2830A-040 : 1 GHz
MS2830A-041 : 1 GHz
MS2830A-043 : 12 GHz
MS2830A-044 : 12 GHz
MS2830A-045 : 12 GHz

Stop Freq

MS2830A-040 : 3.6 GHz
MS2830A-041 : 6 GHz
MS2830A-043 : 12.75 GHz
MS2830A-044 : 14 GHz
MS2830A-045 : 14 GHz

Reference Level 0 dBm

Attenuator Auto, 10 dB

Detection Positive

RBW

MS2830A-040 : Auto, 3 MHz
MS2830A-041 : Auto, 3 MHz
MS2830A-043 : Manual, 1 MHz
MS2830A-044 : Manual, 1 MHz
MS2830A-045 : Manual, 1 MHz

VBW

MS2830A-040 : Auto, 3 MHz
MS2830A-041 : Auto, 3 MHz
MS2830A-043 : Auto, 1 MHz
MS2830A-044 : Auto, 1 MHz
MS2830A-045 : Auto, 1 MHz

Sweep Time

MS2830A-040 : Auto, 1 ms
MS2830A-041 : Auto, 2 ms
MS2830A-043 : Auto, 1 ms
MS2830A-044 : Auto, 7 ms
MS2830A-045 : Auto, 4 ms

Trace Point 10001

Couple Storage Count On

Storage Count 10

- Pause before Sweep Off
- Correction Common
- Preamp Off

Limit Setup

- Start Level –13 dBm
- Stop Level Auto, –13 dBm
- Search Resolution 6 dB
- Threshold Level –90 dBm

Time Domain Setup

- Couple Segment RBW
  - MS2830A-040 : On, 3 MHz
  - MS2830A-041 : On, 3 MHz
  - MS2830A-043 : On, 1 MHz
  - MS2830A-044 : On, 1 MHz
  - MS2830A-045 : On, 1 MHz
- Couple Segment VBW
  - MS2830A-040 : On, 3 MHz
  - MS2830A-041 : On, 3 MHz
  - MS2830A-043 : On, 1 MHz
  - MS2830A-044 : On, 1 MHz
  - MS2830A-045 : On, 1 MHz
- Sweep Time 100 ms
- Detection RMS

Segment-16

Segment Setup

Segment

MS2830A-040 : Off
MS2830A-041 : Off
MS2830A-043 : Off
MS2830A-044 : On
MS2830A-045 : On

Start Freq

MS2830A-040 : 1 GHz
MS2830A-041 : 1 GHz
MS2830A-043 : 1 GHz
MS2830A-044 : 14 GHz
MS2830A-045 : 14 GHz

Stop Freq

MS2830A-040 : 3.6 GHz
MS2830A-041 : 6 GHz
MS2830A-043 : 12.75 GHz
MS2830A-044 : 18 GHz
MS2830A-045 : 18 GHz

Reference Level 0 dBm

Attenuator Auto, 10 dB

Detection Positive

RBW

MS2830A-040 : Auto, 3 MHz
MS2830A-041 : Auto, 3 MHz
MS2830A-043 : Auto, 3 MHz
MS2830A-044 : Manual, 1 MHz
MS2830A-045 : Manual, 1 MHz

VBW

MS2830A-040 : Auto, 3 MHz
MS2830A-041 : Auto, 3 MHz
MS2830A-043 : Auto, 1 MHz
MS2830A-044 : Auto, 1 MHz
MS2830A-045 : Auto, 1 MHz

Sweep Time

MS2830A-040 : Auto, 1 ms
MS2830A-041 : Auto, 2 ms
MS2830A-043 : Auto, 1 ms
MS2830A-044 : Auto, 14 ms
MS2830A-045 : Auto, 8 ms

Trace Point 10001

Couple Storage Count On

Storage Count 10

- Pause before Sweep: Off
- Correction: Common
- Preamp: Off

Limit Setup

- Start Level: –13 dBm
- Stop Level: Auto, –13 dBm
- Search Resolution: 6 dB
- Threshold Level: –90 dBm

Time Domain Setup

- Couple Segment RBW
  - MS2830A-040 : On, 3 MHz
  - MS2830A-041 : On, 3 MHz
  - MS2830A-043 : On, 1 MHz
  - MS2830A-044 : On, 1 MHz
  - MS2830A-045 : On, 1 MHz
- Couple Segment VBW
  - MS2830A-040 : On, 3 MHz
  - MS2830A-041 : On, 3 MHz
  - MS2830A-043 : On, 1 MHz
  - MS2830A-044 : On, 1 MHz
  - MS2830A-045 : On, 1 MHz
- Sweep Time: 100 ms
- Detection: RMS

Segment-17

Segment Setup

Segment

MS2830A-040 : Off
MS2830A-041 : Off
MS2830A-043 : Off
MS2830A-044 : On
MS2830A-045 : On

Start Freq

MS2830A-040 : 1 GHz
MS2830A-041 : 1 GHz
MS2830A-043 : 1 GHz
MS2830A-044 : 18 GHz
MS2830A-045 : 18 GHz

Stop Freq

MS2830A-040 : 3.6 GHz
MS2830A-041 : 6 GHz
MS2830A-043 : 12.75 GHz
MS2830A-044 : 24 GHz
MS2830A-045 : 24 GHz

Reference Level 0 dBm

Attenuator Auto, 10 dB

Detection Positive

RBW

MS2830A-040 : Auto, 3 MHz
MS2830A-041 : Auto, 3 MHz
MS2830A-043 : Auto, 3 MHz
MS2830A-044 : Manual, 1 MHz
MS2830A-045 : Manual, 1 MHz

VBW

MS2830A-040 : Auto, 3 MHz
MS2830A-041 : Auto, 3 MHz
MS2830A-043 : Auto, 1 MHz
MS2830A-044 : Auto, 1 MHz
MS2830A-045 : Auto, 1 MHz

Sweep Time

MS2830A-040 : Auto, 1 ms
MS2830A-041 : Auto, 2 ms
MS2830A-043 : Auto, 1 ms
MS2830A-044 : Auto, 20 ms
MS2830A-045 : Auto, 12 ms

Trace Point 10001

Couple Storage Count On

Storage Count 10

- Pause before Sweep Off
- Correction Common
- Preamp Off

Limit Setup

- Start Level –13 dBm
- Stop Level Auto, –13 dBm
- Search Resolution 6 dB
- Threshold Level –90 dBm

Time Domain Setup

- Couple Segment RBW
  - MS2830A-040 : On, 3 MHz
  - MS2830A-041 : On, 3 MHz
  - MS2830A-043 : On, 1 MHz
  - MS2830A-044 : On, 1 MHz
  - MS2830A-045 : On, 1 MHz
- Couple Segment VBW
  - MS2830A-040 : On, 3 MHz
  - MS2830A-041 : On, 3 MHz
  - MS2830A-043 : On, 1 MHz
  - MS2830A-044 : On, 1 MHz
  - MS2830A-045 : On, 1 MHz
- Sweep Time 100 ms
- Detection RMS

Segment-18

Segment Setup

Segment

MS2830A-040 : Off
MS2830A-041 : Off
MS2830A-043 : Off
MS2830A-044 : On
MS2830A-045 : On

Start Freq

MS2830A-040 : 1 GHz
MS2830A-041 : 1 GHz
MS2830A-043 : 1 GHz
MS2830A-044 : 24 GHz
MS2830A-045 : 24 GHz

Stop Freq

MS2830A-040 : 3.6 GHz
MS2830A-041 : 6 GHz
MS2830A-043 : 12.75 GHz
MS2830A-044 : 26.5 GHz
MS2830A-045 : 32 GHz

Reference Level 0 dBm

Attenuator Auto, 10 dB

Detection Positive

RBW

MS2830A-040 : Auto, 3 MHz
MS2830A-041 : Auto, 3 MHz
MS2830A-043 : Auto, 3 MHz
MS2830A-044 : Manual, 1 MHz
MS2830A-045 : Manual, 1 MHz

VBW

MS2830A-040 : Auto, 3 MHz
MS2830A-041 : Auto, 3 MHz
MS2830A-043 : Auto, 1 MHz
MS2830A-044 : Auto, 1 MHz
MS2830A-045 : Auto, 1 MHz

Sweep Time

MS2830A-040 : Auto, 1 ms
MS2830A-041 : Auto, 2 ms
MS2830A-043 : Auto, 1 ms
MS2830A-044 : Auto, 9 ms
MS2830A-045 : Auto, 16 ms

Trace Point 10001

Couple Storage Count On

Storage Count 10

- Pause before Sweep: Off
- Correction: Common
- Preamp: Off

Limit Setup

- Start Level: –13 dBm
- Stop Level: Auto, –13 dBm
- Search Resolution: 6 dB
- Threshold Level: –90 dBm

Time Domain Setup

- Couple Segment RBW
  - MS2830A-040 : On, 3 MHz
  - MS2830A-041 : On, 3 MHz
  - MS2830A-043 : On, 1 MHz
  - MS2830A-044 : On, 1 MHz
  - MS2830A-045 : On, 1 MHz
- Couple Segment VBW
  - MS2830A-040 : On, 3 MHz
  - MS2830A-041 : On, 3 MHz
  - MS2830A-043 : On, 1 MHz
  - MS2830A-044 : On, 1 MHz
  - MS2830A-045 : On, 1 MHz
- Sweep Time: 100 ms
- Detection: RMS

Segment-19

Segment Setup

Segment

MS2830A-040 : Off
MS2830A-041 : Off
MS2830A-043 : Off
MS2830A-044 : Off
MS2830A-045 : On

Start Freq

MS2830A-040 : 1 GHz
MS2830A-041 : 1 GHz
MS2830A-043 : 1 GHz
MS2830A-044 : 1 GHz
MS2830A-045 : 32 GHz

Stop Freq

MS2830A-040 : 3.6 GHz
MS2830A-041 : 6 GHz
MS2830A-043 : 12.75 GHz
MS2830A-044 : 26.5 GHz
MS2830A-045 : 42 GHz

Reference Level 0 dBm

Attenuator Auto, 10 dB

Detection Positive

RBW

MS2830A-040 : Auto, 3 MHz
MS2830A-041 : Auto, 3 MHz
MS2830A-043 : Auto, 3 MHz
MS2830A-044 : Auto, 3 MHz
MS2830A-045 : Manual, 1 MHz

VBW

MS2830A-040 : Auto, 3 MHz
MS2830A-041 : Auto, 3 MHz
MS2830A-043 : Auto, 1 MHz
MS2830A-044 : Auto, 1 MHz
MS2830A-045 : Auto, 1 MHz

Sweep Time

MS2830A-040 : Auto, 1 ms
MS2830A-041 : Auto, 2 ms
MS2830A-043 : Auto, 1 ms
MS2830A-044 : Auto, 85 ms
MS2830A-045 : Auto, 20 ms

Trace Point 10001

Couple Storage Count On

Storage Count 10

- Pause before Sweep Off
- Correction Common
- Preamp Off

Limit Setup

- Start Level –13 dBm
- Stop Level Auto, –13 dBm
- Search Resolution 6 dB
- Threshold Level –90 dBm

Time Domain Setup

- Couple Segment RBW
  - MS2830A-040 : On, 3 MHz
  - MS2830A-041 : On, 3 MHz
  - MS2830A-043 : On, 1 MHz
  - MS2830A-044 : On, 3 MHz
  - MS2830A-045 : On, 1 MHz
- Couple Segment VBW
  - MS2830A-040 : On, 3 MHz
  - MS2830A-041 : On, 3 MHz
  - MS2830A-043 : On, 1 MHz
  - MS2830A-044 : On, 3 MHz
  - MS2830A-045 : On, 1 MHz
- Sweep Time 100 ms
- Detection RMS

Segment-20

Segment Setup

Segment

MS2830A-040 : Off
MS2830A-041 : Off
MS2830A-043 : Off
MS2830A-044 : Off
MS2830A-045 : On

Start Freq

MS2830A-040 : 1 GHz
MS2830A-041 : 1 GHz
MS2830A-043 : 1 GHz
MS2830A-044 : 1 GHz
MS2830A-045 : 42 GHz

Stop Freq

MS2830A-040 : 3.6 GHz
MS2830A-041 : 6 GHz
MS2830A-043 : 12.75 GHz
MS2830A-044 : 26.5 GHz
MS2830A-045 : 43 GHz

Reference Level 0 dBm

Attenuator Auto, 10 dB

Detection Positive

RBW

MS2830A-040 : Auto, 3 MHz
MS2830A-041 : Auto, 3 MHz
MS2830A-043 : Auto, 3 MHz
MS2830A-044 : Auto, 3 MHz
MS2830A-045 : Manual, 1 MHz

VBW

MS2830A-040 : Auto, 3 MHz
MS2830A-041 : Auto, 3 MHz
MS2830A-043 : Auto, 1 MHz
MS2830A-044 : Auto, 1 MHz
MS2830A-045 : Auto, 1 MHz

Sweep Time

MS2830A-040 : Auto, 1 ms
MS2830A-041 : Auto, 2 ms
MS2830A-043 : Auto, 1 ms
MS2830A-044 : Auto, 85 ms
MS2830A-045 : Auto, 20 ms

Trace Point 10001

Couple Storage Count On

Storage Count 10

Pause before Sweep Off
Correction Common
Preamp Off
Limit Setup
Start Level –13 dBm
Stop Level Auto, –13 dBm
Search Resolution 6 dB
Threshold Level –90 dBm
Time Domain Setup
Couple Segment RBW
MS2830A-040 : On, 3 MHz
MS2830A-041 : On, 3 MHz
MS2830A-043 : On, 1 MHz
MS2830A-044 : On, 3 MHz
MS2830A-045 : On, 1 MHz
Couple Segment VBW
MS2830A-040 : On, 3 MHz
MS2830A-041 : On, 3 MHz
MS2830A-043 : On, 1 MHz
MS2830A-044 : On, 3 MHz
MS2830A-045 : On, 1 MHz
Sweep Time 100 ms
Detection RMS

TOI
On/Off Off
Tone Frequency Auto Manual Auto
Lower Tone Frequency 5.062500000 GHz
Upper Tone Frequency 8.437500000 GHz
IM3 Frequency Search
On/Off Off
Zero Span Measurement
On/Off Off
Zero Span Bandwidth
Auto/Manual Auto
Zero Span Bandwidth 3 MHz
Zero Span Sweep Time
Auto/Manual Auto
Zero Span Sweep Time 4.0 ms

MS2840A

Frequency			
	Center	1.8 GHz	(MS2840A-040)
		3 GHz	(MS2840A-041)
		13.25 GHz	(MS2840A-044)
		22.25 GHz	(MS2840A-046)
	Start	0 Hz	
	Stop	3.6 GHz	(MS2840A-040)
		6 GHz	(MS2840A-041)
		26.5 GHz	(MS2840A-044)
		44.5 GHz	(MS2840A-046)
	Switching Speed	Normal (Best Phase Noise)	
	Preselector Auto Tune	Off	
	Offset	Off, 0 Hz	
	Step Size	1 GHz	
	External Mixer	Off	
	Band Select	A+	
	Bias	0.0 mA	
	Conversion Loss Mode	Fixed	
	Conversion Loss	15.00 dB	
	Signal ID	Off	
	Signal ID Mode	Image Shift	
	PS Center	Off	
	Microwave Preselector Bypass	Off	
Span			
	Span	3.6 GHz	(MS2840A-040)
		6 GHz	(MS2840A-041)
		26.5 GHz	(MS2840A-044)
		44.5 GHz	(MS2840A-046)
	Couple Time/Frequency Domain	On	
	Frequency Band Mode	Normal (only MS2840A-041/044/046)	
Amplitude			
	Reference Level	0 dBm	
	Attenuator	Auto, 10 dB	
	Log Scale Unit	dBm	
	Scale	Log	
	Log Scale Division	10 dB/Div	
	Log Scale Line	10	
	Offset	Off, 0 dB	
	Pre-amp	Off	

BW			
	RBW	Auto, 3 MHz	
	VBW	Auto, 3 MHz	
	VBW Mode	Power	
Marker			
	Active Marker	Marker1	
	Marker Mode	Normal	
	Zone Width	360 MHz	(MS2840A-040)
		600 MHz	(MS2840A-041)
		2.65 GHz	(MS2840A-044)
		4.45 GHz	(MS2840A-046)
	Marker Trace	A	
	Marker Result	Peak	
	Marker Type	Zone	
	Couple Zone	On	
	Spot Line	On	
	Marker List	Off	
	Frequency Count	Off	
	Gate Time	100 ms	
	Relative to	Marker2 (Active Marker is 1)	
		Marker3 (Active Marker is 2)	
		Marker4 (Active Marker is 3)	
		Marker5 (Active Marker is 4)	
		Marker6 (Active Marker is 5)	
		Marker7 (Active Marker is 6)	
		Marker8 (Active Marker is 7)	
		Marker9 (Active Marker is 8)	
		Marker10 (Active Marker is 9)	
		Marker1 (Active Marker is 10)	
Trace			
	Trace-A Trace Type	Write	
	Trace-B Trace Type	Blank	
	Trace-C Trace Type	Blank	
	Trace-D Trace Type	Blank	
	Trace-E Trace Type	Blank	
	Trace-F Trace Type	Blank	
	Trace-A Storage Mode	Off	
	Trace-B Storage Mode	Off	
	Trace-C Storage Mode	Off	
	Trace-D Storage Mode	Off	
	Trace-E Storage Mode	Off	
	Trace-F Storage Mode	Off	
	Storage Count	10	

Limits	
Limit 1 to 6	
Type	On
Limit Display	Off
Limit Test	Off
Margin	Off
Margin Value	0 dB
Edit	
Point	1
Frequency	Center Frequency
Connected to Previous Pt	On
Previous Pt Level Offset	0.0 dB
Envelope	
Points	41
Offset	3.0 dB
Shape	Slope
Limit Line Type (Frequency)	Rel
Limit Line Type (Amplitude)	Abs
Mirror Limit	Off
Detection	Pos & Neg

Trigger/Gate		
Trigger Switch	Off	
Trigger Source	Video	
Trigger Slope	Rise	
Trigger Level (Video)	–40 dBm	
Trigger Level (Wide IF Video)	–20 dBm	
Trigger Hold	Off	
Trigger Hold	100 µs	
Trigger Delay	0 s	
Gate Sweep	Off	
Gate View	Off	
Gate Delay	0 s	
Gate Length	1.0 ms	
Gate Source	External	
Gate Slope	Rise	
Gate Level (Wide IF Video)	–20 dBm	
Gate Hold	Off	
Gate Hold	100 µs	
Gate View Setting		
Sweep Time	100 ms	
RBW	Auto, 3 MHz	
VBW	Auto, 3 MHz	
Detection	Pos & Neg	
Trace Point	10001	
Gate View Frequency		
	Auto, 1.8 GHz	(MS2840A-040)
	Auto, 3 GHz	(MS2840A-041)
	Auto, 13.25 GHz	(MS2840A-044)
	Auto, 22.25 GHz	(MS2840A-046)
Reference Level	0 dBm	
Attenuator	Auto, 10 dB	
Pre-Amp	Off	
Frame Sync Setup	Off	
Frame Trigger Period	10 ms	
Frame Sync Offset	0 s	

Time/Sweep

Sweep Time (Frequency Domain)		
	Auto, 1 ms	(MS2840A-040)
	Auto, 2 ms	(MS2840A-041)
	Auto, 89 ms	(MS2840A-044)
	Auto, 86 ms	(MS2840A-046)
Sweep Time (Time Domain)	100 ms	
Auto Sweep Time Select	Fast	
Auto Sweep Type Rules	Dynamic Range	
FFT width	≤ 40 kHz	
Trace Point	10001	

Peak Search

Resolution	2 dB
Threshold	Off, Above
Threshold Level	–50 dBm
Search Peaks Number	10

Save on Event

Save on Event	Off
Event Type	Limit Fail
Save then Stop	Off
File Name	LIM

Accessory

Title	On, “Spectrum Analyzer”
Uncal Message	On
Reference Clock	Value adjusted at factory shipping

Measure

ACP

On/Off	Off
ACP Reference	Both Sides of Carriers
Offset Ch BW	3.84 MHz
Carrier BW	3.84 MHz
In Band Center	Center Frequency
Carrier Spacing	5 MHz
Offset-1	On, 5 MHz
Offset-2	On, 10 MHz
Offset-3	Off, 15 MHz
In Band Filter Type	Root Nyquist
Offset Ch Filter Type	Root Nyquist
In Band Roll-off Factor	0.22
Offset Ch Roll-off Factor	0.22
Noise Cancel	Off
Power Result Type	Offset
Carrier Number	1

Burst Average Power

On/Off	Off
Start Time	0 s
Stop Time	100 ms
Noise Cancel	Off

Channel Power

On/Off	Off
Channel Center	Center Frequency
Channel Width	3.84 MHz
Filter Type	Root Nyquist
Roll-off Factor	0.22

OBW

On/Off	Off
Method	N%
N% of Ratio	99%
XdB Value	25 dB

Standard Off

Spectrum Emission Mask	
On/Off	Off
Limit Side	Both
Result Type	Peak
Reference Mode	Channel
Reference Power	0 dBm
Channel BW	3.84 MHz
Attenuator	Auto, 10 dB
RBW Auto/Manual	Manual, 30 kHz
VBW Auto/Manual	Auto, 30 kHz
VBW Mode	Power
Sweep Time	Auto, 4 ms
Auto Sweep Time Select	Fast
Detection	RMS
Trace Point	1001
Filter Type	Root Nyquist
Roll-off Factor	0.22
Couple Ref&ATT	On
Edit Offset Number	1
Offset-1	
Offset	On
Start Freq	2.515 MHz
Stop Freq	2.715 MHz
Reference Level	Auto, 0 dBm
Attenuator	Auto, 10 dB
RBW	Manual, 30 kHz
VBW	Auto, 30 kHz
VBW Mode	Power
Sweep Time	Auto, 1 ms
Auto Sweep Time Select	Fast
Detection	RMS
Trace Point	1001
Integrate BW	Auto, 30 kHz
ABS1 Start Level	–12.5 dBm
ABS1 Stop Level	–12.5 dBm
REL Start Level	0 dB
REL Stop Level	0 dB
ABS2 Start Level	–15 dBm
ABS2 Stop Level	–15 dBm
Fail Logic	ABS1

Offset-2

Offset	On
Start Freq	2.715 MHz
Stop Freq	3.515 MHz
Reference Level	Auto, 0 dBm
Attenuator	Auto, 10 dB
RBW	Manual, 30 kHz
VBW	Auto, 30 kHz
VBW Mode	Power
Sweep Time	Auto, 1 ms
Auto Sweep Time Select	Fast
Detection	RMS
Trace Point	1001
Integrate BW	Auto, 30 kHz
ABS1 Start Level	–12.5 dBm
ABS1 Stop Level	–24.5 dBm
REL Start Level	0 dB
REL Stop Level	0 dB
ABS2 Start Level	–15 dBm
ABS2 Stop Level	–15 dBm
Fail Logic	ABS1

Offset-3

Offset	On
Start Freq	3.515 MHz
Stop Freq	4 MHz
Reference Level	Auto, 0 dBm
Attenuator	Auto, 10 dB
RBW	Manual, 30 kHz
VBW	Auto, 30 kHz
VBW Mode	Power
Sweep Time	Auto, 1 ms
Auto Sweep Time Select	Fast
Detection	RMS
Trace Point	1001
Integrate BW	Auto, 30 kHz
ABS1 Start Level	–24.5 dBm
ABS1 Stop Level	–24.5 dBm
REL Start Level	0 dB
REL Stop Level	0 dB
ABS2 Start Level	–15 dBm
ABS2 Stop Level	–15 dBm
Fail Logic	ABS1

Offset-4

Offset	On
Start Freq	4 MHz
Stop Freq	8 MHz
Reference Level	Auto, 0 dBm
Attenuator	Auto, 10 dB
RBW	Manual, 1 MHz
VBW	Auto, 1 MHz
VBW Mode	Power
Sweep Time	Auto, 1 ms
Auto Sweep Time Select	Fast
Detection	RMS
Trace Point	1001
Integrate BW	Auto, 1 MHz
ABS1 Start Level	–11.5 dBm
ABS1 Stop Level	–11.5 dBm
REL Start Level	0 dB
REL Stop Level	0 dB
ABS2 Start Level	–13 dBm
ABS2 Stop Level	–13 dBm
Fail Logic	ABS1

Offset-5

Offset	On
Start Freq	8 MHz
Stop Freq	12.5 MHz
Reference Level	Auto, 0 dBm
Attenuator	Auto, 10 dB
RBW	Manual, 1 MHz
VBW	Auto, 30 kHz
VBW Mode	Power
Sweep Time	Auto, 1 ms
Auto Sweep Time Select	Fast
Detection	RMS
Trace Point	1001
Integrate BW	Auto, 1 MHz
ABS1 Start Level	–11.5 dBm
ABS1 Stop Level	–11.5 dBm
REL Start Level	0 dB
REL Stop Level	0 dB
ABS2 Start Level	–13 dBm
ABS2 Stop Level	–13 dBm
Fail Logic	ABS1

Offset-6

Offset	Off
Start Freq	12.5 MHz
Stop Freq	15 MHz
Reference Level	Auto, 0 dBm
Attenuator	Auto, 10 dB
RBW	Manual, 1 MHz
VBW	Auto, 30 kHz
VBW Mode	Power
Sweep Time	Auto, 1 ms
Auto Sweep Time Select	Fast
Detection	RMS
Trace Point	1001
Integrate BW	Auto, 1 MHz
ABS1 Start Level	–11.5 dBm
ABS1 Stop Level	–11.5 dBm
REL Start Level	0 dB
REL Stop Level	0 dB
ABS2 Start Level	–13 dBm
ABS2 Stop Level	–13 dBm
Fail Logic	Off

Spurious Emission

On/Off	Off
Displayed Segment	1
Page of Summary	Auto
Result Type	Worst
Time Domain Measurement	Off
Fail Stop	Off
Displayed Segment Mode	Auto
Displayed Summary Table	Result

Segment-1
- Segment Setup
  - Segment
    - MS2840A-040 : On
    - MS2840A-041 : On
    - MS2840A-044 : On
    - MS2840A-046 : On
  - Start Freq
    - MS2840A-040 : 9 kHz
    - MS2840A-041 : 9 kHz
    - MS2840A-044 : 9 kHz
    - MS2840A-046 : 9 kHz
  - Stop Freq
    - MS2840A-040 : 150 kHz
    - MS2840A-041 : 150 kHz
    - MS2840A-044 : 150 kHz
    - MS2840A-046 : 150 kHz
  - Reference Level 0 dBm
  - Attenuator Auto, 10 dB
  - Detection Positive
  - RBW
    - MS2840A-040 : Manual, 1 kHz
    - MS2840A-041 : Manual, 1 kHz
    - MS2840A-044 : Manual, 1 kHz
    - MS2840A-046 : Manual, 1 kHz
  - VBW
    - MS2840A-040 : Auto, 1 kHz
    - MS2840A-041 : Auto, 1 kHz
    - MS2840A-044 : Auto, 1 kHz
    - MS2840A-046 : Auto, 1 kHz
  - Sweep Time
    - MS2840A-040 : Auto, 84 ms
    - MS2840A-041 : Auto, 84 ms
    - MS2840A-044 : Auto, 84 ms
    - MS2840A-046 : Auto, 84 ms
  - Trace Point 1001
  - Couple Storage Count On
  - Storage Count 10
  - Pause before Sweep Off
  - Correction Common
  - Preamp Off
- Limit Setup
  - Start Level –13 dBm
  - Stop Level Auto, –13 dBm

Search Resolution 6 dB
Threshold Level –90 dBm
Time Domain Setup
Couple Segment RBW
MS2840A-040 : On, 1 kHz
MS2840A-041 : On, 1 kHz
MS2840A-044 : On, 1 kHz
MS2840A-046 : On, 1 kHz
Couple Segment VBW
MS2840A-040 : On, 1 kHz
MS2840A-041 : On, 1 kHz
MS2840A-044 : On, 1 kHz
MS2840A-046 : On, 1 kHz
Sweep Time 100 ms
Detection RMS

Segment-2

Segment Setup

Segment

MS2840A-040 : On
MS2840A-041 : On
MS2840A-044 : On
MS2840A-046 : On

Start Freq

MS2840A-040 : 150 kHz
MS2840A-041 : 150 kHz
MS2840A-044 : 150 kHz
MS2840A-046 : 150 kHz

Stop Freq

MS2840A-040 : 30 MHz
MS2840A-041 : 30 MHz
MS2840A-044 : 30 MHz
MS2840A-046 : 30 MHz

Reference Level 0 dBm
Attenuator Auto, 10 dB
Detection Positive
RBW

MS2840A-040 : Manual, 10 kHz
MS2840A-041 : Manual, 10 kHz
MS2840A-044 : Manual, 10 kHz
MS2840A-046 : Manual, 10 kHz

VBW

MS2840A-040 : Auto, 10 kHz
MS2840A-041 : Auto, 10 kHz
MS2840A-044 : Auto, 10 kHz
MS2840A-046 : Auto, 10 kHz

Sweep Time

MS2840A-040 : Auto, 117 ms
MS2840A-041 : Auto, 117 ms
MS2840A-044 : Auto, 177 ms
MS2840A-046 : Auto, 177 ms

Trace Point 5001
Couple Storage Count On
Storage Count 10
Pause before Sweep Off
Correction Common
Preamp Off

Limit Setup

Start Level –13 dBm
Stop Level Auto, –13 dBm

Search Resolution 6 dB
Threshold Level –90 dBm
Time Domain Setup
Couple Segment RBW
MS2840A-040 : On, 10 kHz
MS2840A-041 : On, 10 kHz
MS2840A-044 : On, 10 kHz
MS2840A-046 : On, 10 kHz
Couple Segment VBW
MS2840A-040 : On, 10 kHz
MS2840A-041 : On, 10 kHz
MS2840A-044 : On, 10 kHz
MS2840A-046 : On, 10 kHz
Sweep Time 100 ms
Detection RMS

Segment-3

Segment Setup

Segment

MS2840A-040 : On
MS2840A-041 : On
MS2840A-044 : On
MS2840A-046 : On

Start Freq

MS2840A-040 : 30 MHz
MS2840A-041 : 30 MHz
MS2840A-044 : 30 MHz
MS2840A-046 : 30 MHz

Stop Freq

MS2840A-040 : 1 GHz
MS2840A-041 : 1 GHz
MS2840A-044 : 1 GHz
MS2840A-046 : 1 GHz

Reference Level 0 dBm
Attenuator Auto, 10 dB
Detection Positive
RBW

MS2840A-040 : Manual, 100 kHz
MS2840A-041 : Manual, 100 kHz
MS2840A-044 : Manual, 100 kHz
MS2840A-046 : Manual, 100 kHz

VBW

MS2840A-040 : Auto, 100 kHz
MS2840A-041 : Auto, 100 kHz
MS2840A-044 : Auto, 100 kHz
MS2840A-046 : Auto, 100 kHz

Sweep Time

MS2840A-040 : Auto, 58 ms
MS2840A-041 : Auto, 58 ms
MS2840A-044 : Auto, 58 ms
MS2840A-046 : Auto, 58 ms

Trace Point 10001
Couple Storage Count On
Storage Count 10
Pause before Sweep Off
Correction Common
Preamp Off

Limit Setup

Start Level –13 dBm
Stop Level Auto, –13 dBm

Search Resolution 6 dB
Threshold Level –90 dBm
Time Domain Setup
Couple Segment RBW
MS2840A-040 : On, 100 kHz
MS2840A-041 : On, 100 kHz
MS2840A-044 : On, 100 kHz
MS2840A-046 : On, 100 kHz
Couple Segment VBW
MS2840A-040 : On, 100 kHz
MS2840A-041 : On, 100 kHz
MS2840A-044 : On, 100 kHz
MS2840A-046 : On, 100 kHz
Sweep Time 100 ms
Detection RMS

Segment-4

Segment Setup

Segment

MS2840A-040 : On
MS2840A-041 : On
MS2840A-044 : On
MS2840A-046 : On

Start Freq

MS2840A-040 : 1 GHz
MS2840A-041 : 1 GHz
MS2840A-044 : 1 GHz
MS2840A-046 : 1 GHz

Stop Freq

MS2840A-040 : 2 GHz
MS2840A-041 : 2 GHz
MS2840A-044 : 2 GHz
MS2840A-046 : 2 GHz

Reference Level 0 dBm
Attenuator Auto, 10 dB
Detection Positive
RBW

MS2840A-040 : Manual, 1 MHz
MS2840A-041 : Manual, 1 MHz
MS2840A-044 : Manual, 1 MHz
MS2840A-046 : Manual, 1 MHz

VBW

MS2840A-040 : Auto, 1 MHz
MS2840A-041 : Auto, 1 MHz
MS2840A-044 : Auto, 1 MHz
MS2840A-046 : Auto, 1 MHz

Sweep Time

MS2840A-040 : Auto, 1 ms
MS2840A-041 : Auto, 1 ms
MS2840A-044 : Auto, 1 ms
MS2840A-046 : Auto, 1 ms

Trace Point 10001
Couple Storage Count On
Storage Count 10
Pause before Sweep Off
Correction Common
Preamp Off

Limit Setup

Start Level –13 dBm
Stop Level Auto, –13 dBm

Search Resolution 6 dB
Threshold Level –90 dBm
Time Domain Setup
Couple Segment RBW
MS2840A-040 : On, 1 MHz
MS2840A-041 : On, 1 MHz
MS2840A-044 : On, 1 MHz
MS2840A-046 : On, 1 MHz
Couple Segment VBW
MS2840A-040 : On, 1 MHz
MS2840A-041 : On, 1 MHz
MS2840A-044 : On, 1 MHz
MS2840A-046 : On, 1 MHz
Sweep Time 100 ms
Detection RMS

Segment-5

Segment Setup

Segment

MS2840A-040 : On
MS2840A-041 : On
MS2840A-044 : On
MS2840A-046 : On

Start Freq

MS2840A-040 : 2 GHz
MS2840A-041 : 2 GHz
MS2840A-044 : 2 GHz
MS2840A-046 : 2 GHz

Stop Freq

MS2840A-040 : 3 GHz
MS2840A-041 : 3 GHz
MS2840A-044 : 3 GHz
MS2840A-046 : 3 GHz

Reference Level 0 dBm
Attenuator Auto, 10 dB
Detection Positive
RBW

MS2840A-040 : Manual, 1 MHz
MS2840A-041 : Manual, 1 MHz
MS2840A-044 : Manual, 1 MHz
MS2840A-046 : Manual, 1 MHz

VBW

MS2840A-040 : Auto, 1 MHz
MS2840A-041 : Auto, 1 MHz
MS2840A-044 : Auto, 1 MHz
MS2840A-046 : Auto, 1 MHz

Sweep Time

MS2840A-040 : Auto, 1 ms
MS2840A-041 : Auto, 1 ms
MS2840A-044 : Auto, 1 ms
MS2840A-046 : Auto, 1 ms

Trace Point 10001
Couple Storage Count On
Storage Count 10
Pause before Sweep Off
Correction Common
Preamp Off

Limit Setup

Start Level –13 dBm
Stop Level Auto, –13 dBm

Search Resolution 6 dB
Threshold Level –90 dBm
Time Domain Setup
Couple Segment RBW
MS2840A-040 : On, 1 MHz
MS2840A-041 : On, 1 MHz
MS2840A-044 : On, 1 MHz
MS2840A-046 : On, 1 MHz
Couple Segment VBW
MS2840A-040 : On, 1 MHz
MS2840A-041 : On, 1 MHz
MS2840A-044 : On, 1 MHz
MS2840A-046 : On, 1 MHz
Sweep Time 100 ms
Detection RMS

Segment-6
- Segment Setup
  - Segment
    - MS2840A-040 : On
    - MS2840A-041 : On
    - MS2840A-044 : On
    - MS2840A-046 : On
  - Start Freq
    - MS2840A-040 : 3 GHz
    - MS2840A-041 : 3 GHz
    - MS2840A-044 : 3 GHz
    - MS2840A-046 : 3 GHz
  - Stop Freq
    - MS2840A-040 : 3.6 GHz
    - MS2840A-041 : 4 GHz
    - MS2840A-044 : 4 GHz
    - MS2840A-046 : 4 GHz
  - Reference Level 0 dBm
  - Attenuator Auto, 10 dB
  - Detection Positive
  - RBW
    - MS2840A-040 : Manual, 1 MHz
    - MS2840A-041 : Manual, 1 MHz
    - MS2840A-044 : Manual, 1 MHz
    - MS2840A-046 : Manual, 1 MHz
  - VBW
    - MS2840A-040 : Auto, 1 MHz
    - MS2840A-041 : Auto, 1 MHz
    - MS2840A-044 : Auto, 1 MHz
    - MS2840A-046 : Auto, 1 MHz
  - Sweep Time
    - MS2840A-040 : Auto, 1 ms
    - MS2840A-041 : Auto, 1 ms
    - MS2840A-044 : Auto, 1 ms
    - MS2840A-046 : Auto, 1 ms
  - Trace Point 10001
  - Couple Storage Count On
  - Storage Count 10
  - Pause before Sweep Off
  - Correction Common
  - Preamp Off
- Limit Setup
  - Start Level –13 dBm
  - Stop Level Auto, –13 dBm

Search Resolution 6 dB
Threshold Level –90 dBm
Time Domain Setup
Couple Segment RBW
MS2840A-040 : On, 1 MHz
MS2840A-041 : On, 1 MHz
MS2840A-044 : On, 1 MHz
MS2840A-046 : On, 1 MHz
Couple Segment VBW
MS2840A-040 : On, 1 MHz
MS2840A-041 : On, 1 MHz
MS2840A-044 : On, 1 MHz
MS2840A-046 : On, 1 MHz
Sweep Time 100 ms
Detection RMS

Segment-7

Segment Setup

Segment

MS2840A-040 : Off
MS2840A-041 : On
MS2840A-044 : On
MS2840A-046 : On

Start Freq

MS2840A-040 : 1 GHz
MS2840A-041 : 4 GHz
MS2840A-044 : 4 GHz
MS2840A-046 : 4 GHz

Stop Freq

MS2840A-040 : 3.6 GHz
MS2840A-041 : 5 GHz
MS2840A-044 : 5 GHz
MS2840A-046 : 5 GHz

Reference Level 0 dBm
Attenuator Auto, 10 dB
Detection Positive
RBW

MS2840A-040 : Auto, 3 MHz
MS2840A-041 : Manual, 1 MHz
MS2840A-044 : Manual, 1 MHz
MS2840A-046 : Manual, 1 MHz

VBW

MS2840A-040 : Auto, 3 MHz
MS2840A-041 : Auto, 1 MHz
MS2840A-044 : Auto, 1 MHz
MS2840A-046 : Auto, 1 MHz

Sweep Time

MS2840A-040 : Auto, 1 ms
MS2840A-041 : Auto, 1 ms
MS2840A-044 : Auto, 1 ms
MS2840A-046 : Auto, 1 ms

Trace Point 10001
Couple Storage Count On
Storage Count 10
Pause before Sweep Off
Correction Common
Preamp Off

Limit Setup

Start Level –13 dBm
Stop Level Auto, –13 dBm

Search Resolution 6 dB
Threshold Level –90 dBm
Time Domain Setup
Couple Segment RBW
MS2840A-040 : On, 3 MHz
MS2840A-041 : On, 1 MHz
MS2840A-044 : On, 1 MHz
MS2840A-046 : On, 1 MHz
Couple Segment VBW
MS2840A-040 : On, 3 MHz
MS2840A-041 : On, 1 MHz
MS2840A-044 : On, 1 MHz
MS2840A-046 : On, 1 MHz
Sweep Time 100 ms
Detection RMS

Segment-8

Segment Setup

Segment

MS2840A-040 : Off
MS2840A-041 : On
MS2840A-044 : On
MS2840A-046 : On

Start Freq

MS2840A-040 : 1 GHz
MS2840A-041 : 5 GHz
MS2840A-044 : 5 GHz
MS2840A-046 : 5 GHz

Stop Freq

MS2840A-040 : 3.6 GHz
MS2840A-041 : 6 GHz
MS2840A-044 : 6 GHz
MS2840A-046 : 6 GHz

Reference Level 0 dBm
Attenuator Auto, 10 dB
Detection Positive
RBW

MS2840A-040 : Auto, 3 MHz
MS2840A-041 : Manual, 1 MHz
MS2840A-044 : Manual, 1 MHz
MS2840A-046 : Manual, 1 MHz

VBW

MS2840A-040 : Auto, 3 MHz
MS2840A-041 : Auto, 1 MHz
MS2840A-044 : Auto, 1 MHz
MS2840A-046 : Auto, 1 MHz

Sweep Time

MS2840A-040 : Auto, 1 ms
MS2840A-041 : Auto, 1 ms
MS2840A-044 : Auto, 1 ms
MS2840A-046 : Auto, 1 ms

Trace Point 10001
Couple Storage Count On
Storage Count 10
Pause before Sweep Off
Correction Common
Preamp Off

Limit Setup

Start Level –13 dBm
Stop Level Auto, –13 dBm

Search Resolution 6 dB
Threshold Level –90 dBm
Time Domain Setup
Couple Segment RBW
MS2840A-040 : On, 3 MHz
MS2840A-041 : On, 1 MHz
MS2840A-044 : On, 1 MHz
MS2840A-046 : On, 1 MHz
Couple Segment VBW
MS2840A-040 : On, 3 MHz
MS2840A-041 : On, 1 MHz
MS2840A-044 : On, 1 MHz
MS2840A-046 : On, 1 MHz
Sweep Time 100 ms
Detection RMS

Segment-9

Segment Setup

Segment

MS2840A-040 : Off
MS2840A-041 : Off
MS2840A-044 : On
MS2840A-046 : On

Start Freq

MS2840A-040 : 1 GHz
MS2840A-041 : 1 GHz
MS2840A-044 : 6 GHz
MS2840A-046 : 6 GHz

Stop Freq

MS2840A-040 : 3.6 GHz
MS2840A-041 : 6 GHz
MS2840A-044 : 7 GHz
MS2840A-046 : 7 GHz

Reference Level 0 dBm
Attenuator Auto, 10 dB
Detection Positive

RBW

MS2840A-040 : Auto, 3 MHz
MS2840A-041 : Auto, 3 MHz
MS2840A-044 : Manual, 1 MHz
MS2840A-046 : Manual, 1 MHz

VBW

MS2840A-040 : Auto, 3 MHz
MS2840A-041 : Auto, 3 MHz
MS2840A-044 : Auto, 1 MHz
MS2840A-046 : Auto, 1 MHz

Sweep Time

MS2840A-040 : Auto, 1 ms
MS2840A-041 : Auto, 2 ms
MS2840A-044 : Auto, 4 ms
MS2840A-046 : Auto, 2 ms

Trace Point 10001
Couple Storage Count On
Storage Count 10
Pause before Sweep Off
Correction Common
Preamp Off

Limit Setup

Start Level –13 dBm
Stop Level Auto, –13 dBm

Search Resolution 6 dB
Threshold Level –90 dBm
Time Domain Setup
Couple Segment RBW
MS2840A-040 : On, 3 MHz
MS2840A-041 : On, 3 MHz
MS2840A-044 : On, 1 MHz
MS2840A-046 : On, 1 MHz
Couple Segment VBW
MS2840A-040 : On, 3 MHz
MS2840A-041 : On, 3 MHz
MS2840A-044 : On, 1 MHz
MS2840A-046 : On, 1 MHz
Sweep Time 100 ms
Detection RMS

Segment-10

Segment Setup

Segment

MS2840A-040 : Off
MS2840A-041 : Off
MS2840A-044 : On
MS2840A-046 : On

Start Freq

MS2840A-040 : 1 GHz
MS2840A-041 : 1 GHz
MS2840A-044 : 7 GHz
MS2840A-046 : 7 GHz

Stop Freq

MS2840A-040 : 3.6 GHz
MS2840A-041 : 6 GHz
MS2840A-044 : 8 GHz
MS2840A-046 : 8 GHz

Reference Level 0 dBm
Attenuator Auto, 10 dB
Detection Positive
RBW

MS2840A-040 : Auto, 3 MHz
MS2840A-041 : Auto, 3 MHz
MS2840A-044 : Manual, 1 MHz
MS2840A-046 : Manual, 1 MHz

VBW

MS2840A-040 : Auto, 3 MHz
MS2840A-041 : Auto, 3 MHz
MS2840A-044 : Auto, 1 MHz
MS2840A-046 : Auto, 1 MHz

Sweep Time

MS2840A-040 : Auto, 1 ms
MS2840A-041 : Auto, 2 ms
MS2840A-044 : Auto, 4 ms
MS2840A-046 : Auto, 2 ms

Trace Point 10001
Couple Storage Count On
Storage Count 10
Pause before Sweep Off
Correction Common
Preamp Off

Limit Setup

Start Level –13 dBm
Stop Level Auto, –13 dBm

Search Resolution 6 dB
Threshold Level –90 dBm
Time Domain Setup
Couple Segment RBW
MS2840A-040 : On, 3 MHz
MS2840A-041 : On, 3 MHz
MS2840A-044 : On, 1 MHz
MS2840A-046 : On, 1 MHz
Couple Segment VBW
MS2840A-040 : On, 3 MHz
MS2840A-041 : On, 3 MHz
MS2840A-044 : On, 1 MHz
MS2840A-046 : On, 1 MHz
Sweep Time 100 ms
Detection RMS

Segment-11

Segment Setup

Segment

MS2840A-040 : Off

MS2840A-041 : Off

MS2840A-044 : On

MS2840A-046 : On

Start Freq

MS2840A-040 : 1 GHz

MS2840A-041 : 1 GHz

MS2840A-044 : 8 GHz

MS2840A-046 : 8 GHz

Stop Freq

MS2840A-040 : 3.6 GHz

MS2840A-041 : 6 GHz

MS2840A-044 : 9 GHz

MS2840A-046 : 9 GHz

Reference Level 0 dBm

Attenuator Auto, 10 dB

Detection Positive

RBW

MS2840A-040 : Auto, 3 MHz

MS2840A-041 : Auto, 3 MHz

MS2840A-044 : Manual, 1 MHz

MS2840A-046 : Manual, 1 MHz

VBW

MS2840A-040 : Auto, 3 MHz

MS2840A-041 : Auto, 3 MHz

MS2840A-044 : Auto, 1 MHz

MS2840A-046 : Auto, 1 MHz

Sweep Time

MS2840A-040 : Auto, 1 ms

MS2840A-041 : Auto, 2 ms

MS2840A-044 : Auto, 4 ms

MS2840A-046 : Auto, 2 ms

Trace Point 10001

Couple Storage Count On

Storage Count 10

Pause before Sweep Off

Correction Common

Preamp Off

Limit Setup

Start Level –13 dBm

Stop Level Auto, –13 dBm

Search Resolution 6 dB
Threshold Level –90 dBm
Time Domain Setup
Couple Segment RBW
MS2840A-040 : On, 3 MHz
MS2840A-041 : On, 3 MHz
MS2840A-044 : On, 1 MHz
MS2840A-046 : On, 1 MHz
Couple Segment VBW
MS2840A-040 : On, 3 MHz
MS2840A-041 : On, 3 MHz
MS2840A-044 : On, 1 MHz
MS2840A-046 : On, 1 MHz
Sweep Time 100 ms
Detection RMS

Segment-12

Segment Setup

Segment

MS2840A-040 : Off
MS2840A-041 : Off
MS2840A-044 : On
MS2840A-046 : On

Start Freq

MS2840A-040 : 1 GHz
MS2840A-041 : 1 GHz
MS2840A-044 : 9 GHz
MS2840A-046 : 9 GHz

Stop Freq

MS2840A-040 : 3.6 GHz
MS2840A-041 : 6 GHz
MS2840A-044 : 10 GHz
MS2840A-046 : 10 GHz

Reference Level 0 dBm
Attenuator Auto, 10 dB
Detection Positive
RBW

MS2840A-040 : Auto, 3 MHz
MS2840A-041 : Auto, 3 MHz
MS2840A-044 : Manual, 1 MHz
MS2840A-046 : Manual, 1 MHz

VBW

MS2840A-040 : Auto, 3 MHz
MS2840A-041 : Auto, 3 MHz
MS2840A-044 : Auto, 1 MHz
MS2840A-046 : Auto, 1 MHz

Sweep Time

MS2840A-040 : Auto, 1 ms
MS2840A-041 : Auto, 2 ms
MS2840A-044 : Auto, 4 ms
MS2840A-046 : Auto, 2 ms

Trace Point 10001
Couple Storage Count On
Storage Count 10
Pause before Sweep Off
Correction Common
Preamp Off

Limit Setup

Start Level –13 dBm
Stop Level Auto, –13 dBm

Search Resolution 6 dB
Threshold Level –90 dBm
Time Domain Setup
Couple Segment RBW
MS2840A-040 : On, 3 MHz
MS2840A-041 : On, 3 MHz
MS2840A-044 : On, 1 MHz
MS2840A-046 : On, 1 MHz
Couple Segment VBW
MS2840A-040 : On, 3 MHz
MS2840A-041 : On, 3 MHz
MS2840A-044 : On, 1 MHz
MS2840A-046 : On, 1 MHz
Sweep Time 100 ms
Detection RMS

Segment-13

Segment Setup

Segment

MS2840A-040 : Off
MS2840A-041 : Off
MS2840A-044 : On
MS2840A-046 : On

Start Freq

MS2840A-040 : 1 GHz
MS2840A-041 : 1 GHz
MS2840A-044 : 10 GHz
MS2840A-046 : 10 GHz

Stop Freq

MS2840A-040 : 3.6 GHz
MS2840A-041 : 6 GHz
MS2840A-044 : 11 GHz
MS2840A-046 : 11 GHz

Reference Level 0 dBm
Attenuator Auto, 10 dB
Detection Positive

RBW

MS2840A-040 : Auto, 3 MHz
MS2840A-041 : Auto, 3 MHz
MS2840A-044 : Manual, 1 MHz
MS2840A-046 : Manual, 1 MHz

VBW

MS2840A-040 : Auto, 3 MHz
MS2840A-041 : Auto, 3 MHz
MS2840A-044 : Auto, 1 MHz
MS2840A-046 : Auto, 1 MHz

Sweep Time

MS2840A-040 : Auto, 1 ms
MS2840A-041 : Auto, 2 ms
MS2840A-044 : Auto, 4 ms
MS2840A-046 : Auto, 2 ms

Trace Point 10001
Couple Storage Count On
Storage Count 10
Pause before Sweep Off
Correction Common
Preamp Off

Limit Setup

Start Level –13 dBm
Stop Level Auto, –13 dBm

Search Resolution 6 dB
Threshold Level –90 dBm
Time Domain Setup
Couple Segment RBW
MS2840A-040 : On, 3 MHz
MS2840A-041 : On, 3 MHz
MS2840A-044 : On, 1 MHz
MS2840A-046 : On, 1 MHz
Couple Segment VBW
MS2840A-040 : On, 3 MHz
MS2840A-041 : On, 3 MHz
MS2840A-044 : On, 1 MHz
MS2840A-046 : On, 1 MHz
Sweep Time 100 ms
Detection RMS

Segment-14

Segment Setup

Segment

MS2840A-040 : Off
MS2840A-041 : Off
MS2840A-044 : On
MS2840A-046 : On

Start Freq

MS2840A-040 : 1 GHz
MS2840A-041 : 1 GHz
MS2840A-044 : 11 GHz
MS2840A-046 : 11 GHz

Stop Freq

MS2840A-040 : 3.6 GHz
MS2840A-041 : 6 GHz
MS2840A-044 : 12 GHz
MS2840A-046 : 12 GHz

Reference Level 0 dBm
Attenuator Auto, 10 dB
Detection Positive
RBW

MS2840A-040 : Auto, 3 MHz
MS2840A-041 : Auto, 3 MHz
MS2840A-044 : Manual, 1 MHz
MS2840A-046 : Manual, 1 MHz

VBW

MS2840A-040 : Auto, 3 MHz
MS2840A-041 : Auto, 3 MHz
MS2840A-044 : Auto, 1 MHz
MS2840A-046 : Auto, 1 MHz

Sweep Time

MS2840A-040 : Auto, 1 ms
MS2840A-041 : Auto, 2 ms
MS2840A-044 : Auto, 4 ms
MS2840A-046 : Auto, 2 ms

Trace Point 10001
Couple Storage Count On
Storage Count 10
Pause before Sweep Off
Correction Common
Preamp Off

Limit Setup

Start Level –13 dBm
Stop Level Auto, –13 dBm

Search Resolution 6 dB
Threshold Level –90 dBm
Time Domain Setup
Couple Segment RBW
MS2840A-040 : On, 3 MHz
MS2840A-041 : On, 3 MHz
MS2840A-044 : On, 1 MHz
MS2840A-046 : On, 1 MHz
Couple Segment VBW
MS2840A-040 : On, 3 MHz
MS2840A-041 : On, 3 MHz
MS2840A-044 : On, 1 MHz
MS2840A-046 : On, 1 MHz
Sweep Time 100 ms
Detection RMS

Segment-15

Segment Setup

Segment

MS2840A-040 : Off
MS2840A-041 : Off
MS2840A-044 : On
MS2840A-046 : On

Start Freq

MS2840A-040 : 1 GHz
MS2840A-041 : 1 GHz
MS2840A-044 : 12 GHz
MS2840A-046 : 12 GHz

Stop Freq

MS2840A-040 : 3.6 GHz
MS2840A-041 : 6 GHz
MS2840A-044 : 14 GHz
MS2840A-046 : 14 GHz

Reference Level 0 dBm
Attenuator Auto, 10 dB
Detection Positive

RBW

MS2840A-040 : Auto, 3 MHz
MS2840A-041 : Auto, 3 MHz
MS2840A-044 : Manual, 1 MHz
MS2840A-046 : Manual, 1 MHz

VBW

MS2840A-040 : Auto, 3 MHz
MS2840A-041 : Auto, 3 MHz
MS2840A-044 : Auto, 1 MHz
MS2840A-046 : Auto, 1 MHz

Sweep Time

MS2840A-040 : Auto, 1 ms
MS2840A-041 : Auto, 2 ms
MS2840A-044 : Auto, 7 ms
MS2840A-046 : Auto, 4 ms

Trace Point 10001
Couple Storage Count On
Storage Count 10
Pause before Sweep Off
Correction Common
Preamp Off

Limit Setup

Start Level –13 dBm
Stop Level Auto, –13 dBm

Search Resolution 6 dB
Threshold Level –90 dBm
Time Domain Setup
Couple Segment RBW
MS2840A-040 : On, 3 MHz
MS2840A-041 : On, 3 MHz
MS2840A-044 : On, 1 MHz
MS2840A-046 : On, 1 MHz
Couple Segment VBW
MS2840A-040 : On, 3 MHz
MS2840A-041 : On, 3 MHz
MS2840A-044 : On, 1 MHz
MS2840A-046 : On, 1 MHz
Sweep Time 100 ms
Detection RMS

Segment-16

Segment Setup

Segment

MS2840A-040 : Off
MS2840A-041 : Off
MS2840A-044 : On
MS2840A-046 : On

Start Freq

MS2840A-040 : 1 GHz
MS2840A-041 : 1 GHz
MS2840A-044 : 14 GHz
MS2840A-046 : 14 GHz

Stop Freq

MS2840A-040 : 3.6 GHz
MS2840A-041 : 6 GHz
MS2840A-044 : 18 GHz
MS2840A-046 : 18 GHz

Reference Level 0 dBm
Attenuator Auto, 10 dB
Detection Positive

RBW

MS2840A-040 : Auto, 3 MHz
MS2840A-041 : Auto, 3 MHz
MS2840A-044 : Manual, 1 MHz
MS2840A-046 : Manual, 1 MHz

VBW

MS2840A-040 : Auto, 3 MHz
MS2840A-041 : Auto, 3 MHz
MS2840A-044 : Auto, 1 MHz
MS2840A-046 : Auto, 1 MHz

Sweep Time

MS2840A-040 : Auto, 1 ms
MS2840A-041 : Auto, 2 ms
MS2840A-044 : Auto, 14 ms
MS2840A-046 : Auto, 8 ms

Trace Point 10001
Couple Storage Count On
Storage Count 10
Pause before Sweep Off
Correction Common
Preamp Off

Limit Setup

Start Level –13 dBm
Stop Level Auto, –13 dBm

Search Resolution 6 dB
Threshold Level –90 dBm
Time Domain Setup
Couple Segment RBW
MS2840A-040 : On, 3 MHz
MS2840A-041 : On, 3 MHz
MS2840A-044 : On, 1 MHz
MS2840A-046 : On, 1 MHz
Couple Segment VBW
MS2840A-040 : On, 3 MHz
MS2840A-041 : On, 3 MHz
MS2840A-044 : On, 1 MHz
MS2840A-046 : On, 1 MHz
Sweep Time 100 ms
Detection RMS

Segment-17

Segment Setup

Segment

MS2840A-040 : Off
MS2840A-041 : Off
MS2840A-044 : On
MS2840A-046 : On

Start Freq

MS2840A-040 : 1 GHz
MS2840A-041 : 1 GHz
MS2840A-044 : 18 GHz
MS2840A-046 : 18 GHz

Stop Freq

MS2840A-040 : 3.6 GHz
MS2840A-041 : 6 GHz
MS2840A-044 : 24 GHz
MS2840A-046 : 24 GHz

Reference Level 0 dBm
Attenuator Auto, 10 dB
Detection Positive
RBW

MS2840A-040 : Auto, 3 MHz
MS2840A-041 : Auto, 3 MHz
MS2840A-044 : Manual, 1 MHz
MS2840A-046 : Manual, 1 MHz

VBW

MS2840A-040 : Auto, 3 MHz
MS2840A-041 : Auto, 3 MHz
MS2840A-044 : Auto, 1 MHz
MS2840A-046 : Auto, 1 MHz

Sweep Time

MS2840A-040 : Auto, 1 ms
MS2840A-041 : Auto, 2 ms
MS2840A-044 : Auto, 20 ms
MS2840A-046 : Auto, 12 ms

Trace Point 10001
Couple Storage Count On
Storage Count 10
Pause before Sweep Off
Correction Common
Preamp Off

Limit Setup

Start Level –13 dBm
Stop Level Auto, –13 dBm

Search Resolution 6 dB
Threshold Level –90 dBm
Time Domain Setup
Couple Segment RBW
MS2840A-040 : On, 3 MHz
MS2840A-041 : On, 3 MHz
MS2840A-044 : On, 1 MHz
MS2840A-046 : On, 1 MHz
Couple Segment VBW
MS2840A-040 : On, 3 MHz
MS2840A-041 : On, 3 MHz
MS2840A-044 : On, 1 MHz
MS2840A-046 : On, 1 MHz
Sweep Time 100 ms
Detection RMS

Segment-18

Segment Setup

Segment

MS2840A-040 : Off
MS2840A-041 : Off
MS2840A-044 : On
MS2840A-046 : On

Start Freq

MS2840A-040 : 1 GHz
MS2840A-041 : 1 GHz
MS2840A-044 : 24 GHz
MS2840A-046 : 24 GHz

Stop Freq

MS2840A-040 : 3.6 GHz
MS2840A-041 : 6 GHz
MS2840A-044 : 26.5 GHz
MS2840A-046 : 32 GHz

Reference Level 0 dBm
Attenuator Auto, 10 dB
Detection Positive

RBW

MS2840A-040 : Auto, 3 MHz
MS2840A-041 : Auto, 3 MHz
MS2840A-044 : Manual, 1 MHz
MS2840A-046 : Manual, 1 MHz

VBW

MS2840A-040 : Auto, 3 MHz
MS2840A-041 : Auto, 3 MHz
MS2840A-044 : Auto, 1 MHz
MS2840A-046 : Auto, 1 MHz

Sweep Time

MS2840A-040 : Auto, 1 ms
MS2840A-041 : Auto, 2 ms
MS2840A-044 : Auto, 9 ms
MS2840A-046 : Auto, 16 ms

Trace Point 10001
Couple Storage Count On
Storage Count 10
Pause before Sweep Off
Correction Common
Preamp Off

Limit Setup

Start Level –13 dBm
Stop Level Auto, –13 dBm

Search Resolution 6 dB
Threshold Level –90 dBm
Time Domain Setup
Couple Segment RBW
MS2840A-040 : On, 3 MHz
MS2840A-041 : On, 3 MHz
MS2840A-044 : On, 1 MHz
MS2840A-046 : On, 1 MHz
Couple Segment VBW
MS2840A-040 : On, 3 MHz
MS2840A-041 : On, 3 MHz
MS2840A-044 : On, 1 MHz
MS2840A-046 : On, 1 MHz
Sweep Time 100 ms
Detection RMS

Segment-19

Segment Setup

Segment

MS2840A-040 : Off
MS2840A-041 : Off
MS2840A-044 : Off
MS2840A-046 : On

Start Freq

MS2840A-040 : 1 GHz
MS2840A-041 : 1 GHz
MS2840A-044 : 1 GHz
MS2840A-046 : 32 GHz

Stop Freq

MS2840A-040 : 3.6 GHz
MS2840A-041 : 6 GHz
MS2840A-044 : 26.5 GHz
MS2840A-046 : 42 GHz

Reference Level 0 dBm
Attenuator Auto, 10 dB
Detection Positive
RBW

MS2840A-040 : Auto, 3 MHz
MS2840A-041 : Auto, 3 MHz
MS2840A-044 : Auto, 3 MHz
MS2840A-046 : Manual, 1 MHz

VBW

MS2840A-040 : Auto, 3 MHz
MS2840A-041 : Auto, 3 MHz
MS2840A-044 : Auto, 1 MHz
MS2840A-046 : Auto, 1 MHz

Sweep Time

MS2840A-040 : Auto, 1 ms
MS2840A-041 : Auto, 2 ms
MS2840A-044 : Auto, 85 ms
MS2840A-046 : Auto, 20 ms

Trace Point 10001
Couple Storage Count On
Storage Count 10
Pause before Sweep Off
Correction Common
Preamp Off

Limit Setup

Start Level –13 dBm
Stop Level Auto, –13 dBm

Search Resolution 6 dB
Threshold Level –90 dBm
Time Domain Setup
Couple Segment RBW
MS2840A-040 : On, 3 MHz
MS2840A-041 : On, 3 MHz
MS2840A-044 : On, 3 MHz
MS2840A-046 : On, 1 MHz
Couple Segment VBW
MS2840A-040 : On, 3 MHz
MS2840A-041 : On, 3 MHz
MS2840A-044 : On, 3 MHz
MS2840A-046 : On, 1 MHz
Sweep Time 100 ms
Detection RMS

Segment-20

Segment Setup

Segment

MS2840A-040 : Off

MS2840A-041 : Off

MS2840A-044 : Off

MS2840A-046 : On

Start Freq

MS2840A-040 : 1 GHz

MS2840A-041 : 1 GHz

MS2840A-044 : 1 GHz

MS2840A-046 : 42 GHz

Stop Freq

MS2840A-040 : 3.6 GHz

MS2840A-041 : 6 GHz

MS2840A-044 : 26.5 GHz

MS2840A-046 : 44.5 GHz

Reference Level 0 dBm

Attenuator Auto, 10 dB

Detection Positive

RBW

MS2840A-040 : Auto, 3 MHz

MS2840A-041 : Auto, 3 MHz

MS2840A-044 : Auto, 3 MHz

MS2840A-046 : Manual, 1 MHz

VBW

MS2840A-040 : Auto, 3 MHz

MS2840A-041 : Auto, 3 MHz

MS2840A-044 : Auto, 1 MHz

MS2840A-046 : Auto, 1 MHz

Sweep Time

MS2840A-040 : Auto, 1 ms

MS2840A-041 : Auto, 2 ms

MS2840A-044 : Auto, 85 ms

MS2840A-046 : Auto, 20 ms

Trace Point 10001

Couple Storage Count On

Storage Count 10

Pause before Sweep Off
Correction Common
Preamp Off
Limit Setup
Start Level –13 dBm
Stop Level Auto, –13 dBm
Search Resolution 6 dB
Threshold Level –90 dBm
Time Domain Setup
Couple Segment RBW
MS2840A-040 : On, 3 MHz
MS2840A-041 : On, 3 MHz
MS2840A-044 : On, 3 MHz
MS2840A-046 : On, 1 MHz
Couple Segment VBW
MS2840A-040 : On, 3 MHz
MS2840A-041 : On, 3 MHz
MS2840A-044 : On, 3 MHz
MS2840A-046 : On, 1 MHz
Sweep Time 100 ms
Detection RMS

TOI

On/Off	Off
Tone Frequency Auto Manual	Auto
Lower Tone Frequency	5.062500000 GHz
Upper Tone Frequency	8.437500000 GHz
IM3 Frequency Search	
On/Off	Off
Zero Span Measurement	
On/Off	Off
Zero Span Bandwidth	
Auto/Manual	Auto
Zero Span Bandwidth	3 MHz
Zero Span Sweep Time	
Auto/Manual	Auto
Zero Span Sweep Time	4.0 ms

Appendix D Standard Parameter List

The parameters set by the standard functions are listed below.

D-1 ACP

W-CDMA

Table D-1 Standard parameters for ACP function

Standard	Parameter Name	Setting
W-CDMA Uplink	Frequency Span	25 MHz
	RBW	30 kHz
	Detection	RMS
	SWP	Auto, Normal
	Trace Point	1001
	Adjacent Channel Power	On
	ACP Reference	Carrier-1
	Carrier Number	1
	Carrier BW	3.84 MHz
	Carrier Spacing	5 MHz
	In Band Center	Center Frequency
	In Band Filter Type	Root Nyquist
	In Band Roll-off Factor	0.22
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	Off
	Offset Freq-1	5 MHz
	Offset Freq-2	10 MHz
	Offset Freq-3	15 MHz
	Ch BW	3.84 MHz
	Offset Ch Filter Type	Root Nyquist
	Offset Ch Roll-off Factor	0.22

Table D-1 Standard parameters for ACP function (Cont'd)

Standard	Parameter Name	Setting
W-CDMA Downlink (Single Carrier)	Frequency Span	25 MHz
	RBW	30 kHz
	Detection	RMS
	SWP	Auto, Normal
	Trace Point	1001
	Adjacent Channel Power	On
	ACP Reference	Carrier-1
	Carrier Number	1
	Carrier BW	3.84 MHz
	Carrier Spacing	5 MHz
	In Band Center	Center Frequency
	In Band Filter Type	Root Nyquist
	In Band Roll-off Factor	0.22
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	Off
	Offset Freq-1	5 MHz
	Offset Freq-2	10 MHz
	Offset Freq-3	15 MHz
	Ch BW	3.84 MHz
	Offset Ch Filter Type	Root Nyquist
	Offset Ch Roll-off Factor	0.22

Table D-1 Standard parameters for ACP function (Cont'd)

Standard	Parameter Name	Setting
W-CDMA Downlink (2 Carriers)	Frequency Span	30 MHz
	RBW	30 kHz
	Detection	RMS
	SWP	Auto, Normal
	Trace Point	1001
	Adjacent Channel Power	On
	ACP Reference	Both Sides of Carriers
	Carrier Number	2
	Carrier BW	3.84 MHz
	Carrier Spacing	5 MHz
	In Band Center	Center Frequency
	In Band Filter Type	Root Nyquist
	In Band Roll-off Factor	0.22
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	Off
	Offset Freq-1	5 MHz
	Offset Freq-2	10 MHz
	Offset Freq-3	15 MHz
	Ch BW	3.84 MHz
	Offset Ch Filter Type	Root Nyquist
	Offset Ch Roll-off Factor	0.22

Table D-1 Standard parameters for ACP function (Cont'd)

Standard	Parameter Name	Setting
W-CDMA Downlink (3 Carriers)	Frequency Span	35 MHz
	RBW	30 kHz
	Detection	RMS
	SWP	Auto, Normal
	Trace Point	1001
	Adjacent Channel Power	On
	ACP Reference	Both Sides of Carriers
	Carrier Number	3
	Carrier BW	3.84 MHz
	Carrier Spacing	5 MHz
	In Band Center	Center Frequency
	In Band Filter Type	Root Nyquist
	In Band Roll-off Factor	0.22
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	Off
	Offset Freq-1	5 MHz
	Offset Freq-2	10 MHz
	Offset Freq-3	15 MHz
	Ch BW	3.84 MHz
	Offset Filter Type	Root Nyquist
	Offset Roll-off Factor	0.22

Table D-1 Standard parameters for ACP function (Cont'd)

Standard	Parameter Name	Setting
W-CDMA Downlink (4 Carriers)	Frequency Span	40 MHz
	RBW	30 kHz
	Detection	RMS
	SWP	Auto, Normal
	Trace Point	1001
	Adjacent Channel Power	On
	ACP Reference	Both Sides of Carriers
	Carrier Number	4
	Carrier BW	3.84 MHz
	Carrier Spacing	5 MHz
	In Band Center	Center Frequency
	In Band Filter Type	Root Nyquist
	In Band Roll-off Factor	0.22
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	Off
	Offset Freq-1	5 MHz
	Offset Freq-2	10 MHz
	Offset Freq-3	15 MHz
	Ch BW	3.84 MHz
	Offset Filter Type	Root Nyquist
	Offset Roll-off Factor	0.22

Mobile WiMAX

Table D-1 Standard parameters for ACP function (Cont'd)

Standard	Parameter Name	Setting
Mobile WiMAX DL / UL 10MHz BW	Frequency Span	50 MHz
	RBW	30 kHz
	VBW	100 kHz
	Detection	RMS
	SWP	Auto, Normal
	Trace Point	1001
	Adjacent Channel Power	On
	ACP Reference	Carrier-1
	Carrier Number	1
	Carrier BW	9.5 MHz
	Carrier Spacing	10 MHz
	In Band Center	Center Frequency
	In Band Filter Type	Rect
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	Off
	Offset Freq-1	10 MHz
	Offset Freq-2	20 MHz
	Offset Freq-3	30 MHz
	Ch BW	9.5 MHz
	Offset Ch Filter Type	Rect

Table D-1 Standard parameters for ACP function (Cont'd)

Standard	Parameter Name	Setting
Mobile WiMAX DL / UL 5MHz BW	Frequency Span	25 MHz
	RBW	30 kHz
	VBW	100 kHz
	Detection	RMS
	SWP	Auto, Normal
	Trace Point	1001
	Adjacent Channel Power	On
	ACP Reference	Carrier-1
	Carrier Number	1
	Carrier BW	4.75 MHz
	Carrier Spacing	5 MHz
	In Band Center	Center Frequency
	In Band Filter Type	Rect
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	Off
	Offset Freq-1	5 MHz
	Offset Freq-2	10 MHz
	Offset Freq-3	15 MHz
	Ch BW	4.75 MHz
	Offset Ch Filter Type	Rect

LTE

Table D-1 Standard parameters for ACP function (Cont'd)

Standard	Parameter Name	Setting
LTE Uplink/Downlink 1.4MHz BW (UTRA 5MHz)	Trace Points	1001
	Span Frequency	21.4 MHz
	RBW	10 kHz
	Detection	RMS
	Sweep Time Switch	Auto
	Auto Sweep Time Select	Normal
	ACP Reference	Carrier Select
	Carrier Number	1
	Carrier BW	1.095 MHz (DL) 1.08 MHz (UL)
	Carrier Spacing	1.4 MHz
	In Band Center	Center Frequency
	In Band Filter Type	Rect
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	Off
	Offset Freq-1	3.2 MHz
	Offset Freq-2	8.2 MHz
	Offset Freq-3	13.2 MHz
	Ch BW	3.84 MHz
	Offset Filter Type	Root Nyquist
	Offset Roll-off Factor	0.22

Table D-1 Standard parameters for ACP function (Cont'd)

Standard	Parameter Name	Setting
LTE TDD Uplink/Downlink 1.4MHz BW (UTRA 1.6MHz)	Trace Points	1001
	Span Frequency	7.8 MHz
	RBW	10 kHz
	Detection	RMS
	Sweep Time Switch	Auto
	Auto Sweep Time Select	Normal
	ACP Reference	Carrier Select
	Carrier Number	1
	Carrier BW	1.095 MHz (DL) 1.08 MHz (UL)
	Carrier Spacing	1.4 MHz
	In Band Center	Center Frequency
	In Band Filter Type	Rect
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	Off
	Offset Freq-1	1.5 MHz
	Offset Freq-2	3.1 MHz
	Offset Freq-3	4.7 MHz
	Ch BW	1.28 MHz
	Offset Filter Type	Root Nyquist
	Offset Roll-off Factor	0.22
	Offset Setting*	Normal

*: Only Downlink is set for Offset Setting.

Table D-1 Standard parameters for ACP function (Cont'd)

Standard	Parameter Name	Setting
LTE Uplink/Downlink 1.4MHz BW (E-UTRA 1.4MHz)	Trace Points	1001
	Span Frequency	7 MHz
	RBW	10 kHz
	Detection	RMS
	Sweep Time Switch	Auto
	Auto Sweep Time Select	Normal
	ACP Reference	Carrier Select
	Carrier Number	1
	Carrier BW	1.095 MHz (DL) 1.08 MHz (UL)
	Carrier Spacing	1.4 MHz
	In Band Center	Center Frequency
	In Band Filter Type	Rect
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	Off
	Offset Freq-1	1.4 MHz
	Offset Freq-2	2.8 MHz
	Offset Freq-3	4.2 MHz
	Ch BW	1.095 MHz (DL) 1.08 MHz (UL)
	Offset Filter Type	Rect

Table D-1 Standard parameters for ACP function (Cont'd)

Standard	Parameter Name	Setting
LTE TDD Uplink/Downlink 1.4MHz BW (E-UTRA 1.4MHz)	Trace Points	1001
	Span Frequency	7 MHz
	RBW	10 kHz
	Detection	RMS
	Sweep Time Switch	Auto
	Auto Sweep Time Select	Normal
	ACP Reference	Carrier Select
	Carrier Number	1
	Carrier BW	1.095 MHz (DL) 1.08 MHz (UL)
	Carrier Spacing	1.4 MHz
	In Band Center	Center Frequency
	In Band Filter Type	Rect
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	Off
	Offset Freq-1	1.4 MHz
	Offset Freq-2	2.8 MHz
	Offset Freq-3	4.2 MHz
	Ch BW	1.095 MHz (DL) 1.08 MHz (UL)
	Offset Filter Type	Rect
	Offset Setting*	Normal

*: Only Downlink is set for Offset Setting.

Table D-1 Standard parameters for ACP function (Cont'd)

Standard	Parameter Name	Setting
LTE TDD Downlink 1.4MHz BW (Adv mode)	Trace Points	1001
	Span Frequency	10 MHz
	RBW	10 kHz
	Detection	RMS
	Sweep Time Switch	Auto
	Auto Sweep Time Select	Normal
	ACP Reference	Carrier Select
	Carrier Number	1
	Carrier BW	1.095 MHz
	Carrier Spacing	1.4 MHz
	In Band Center	Center Frequency
	In Band Filter Type	Rect
	Offset Setting	Adv.
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	On
	Offset-5 On/Off	Off
	Offset-6 On/Off	Off
	Offset-7 On/Off	Off
	Offset-8 On/Off	Off
	Offset Freq-1	1.4 MHz
	Offset Freq-2	2.8 MHz
	Offset Freq-3	1.5 MHz
	Offset Freq-4	3.1 MHz
	Offset Freq-5	3.1 MHz
	Offset Freq-6	3.1 MHz
	Offset Freq-7	3.1 MHz
	Offset Freq-8	3.1 MHz

Table D-1 Standard parameters for ACP function (Cont'd)

Standard	Parameter Name	Setting
LTE TDD Downlink 1.4MHz BW (Adv mode) (Cont'd)	BW Offset-1	1.095 MHz
	BW Offset-2	1.095 MHz
	BW Offset-3	1.28 MHz
	BW Offset-4	1.28 MHz
	BW Offset-5	1.28 MHz
	BW Offset-6	1.28 MHz
	BW Offset-7	1.28 MHz
	BW Offset-8	1.28 MHz
	Offset Filter Type-1	Rect
	Offset Filter Type-2	Rect
	Offset Filter Type-3	Root Nyquist
	Offset Filter Type-4	Root Nyquist
	Offset Filter Type-5	Root Nyquist
	Offset Filter Type-6	Root Nyquist
	Offset Filter Type-7	Root Nyquist
	Offset Filter Type-8	Root Nyquist
	Offset Roll-off Factor-1	0.22
	Offset Roll-off Factor-2	0.22
	Offset Roll-off Factor-3	0.22
	Offset Roll-off Factor-4	0.22
	Offset Roll-off Factor-5	0.22
	Offset Roll-off Factor-6	0.22
	Offset Roll-off Factor-7	0.22
	Offset Roll-off Factor-8	0.22

Table D-1 Standard parameters for ACP function (Cont'd)

Standard	Parameter Name	Setting
LTE Uplink/Downlink 3MHz BW (UTRA 5MHz)	Trace Points	1001
	Span Frequency	23 MHz
	RBW	30 kHz
	Detection	RMS
	Sweep Time Switch	Auto
	Auto Sweep Time Select	Normal
	ACP Reference	Carrier Select
	Carrier Number	1
	Carrier BW	2.715 MHz (DL) 2.7 MHz (UL)
	Carrier Spacing	3 MHz
	In Band Center	Center Frequency
	In Band Filter Type	Rect
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	Off
	Offset Freq-1	4 MHz
	Offset Freq-2	9 MHz
	Offset Freq-3	14 MHz
	Ch BW	3.84 MHz
	Offset Filter Type	Root Nyquist
	Offset Roll-off Factor	0.22

Table D-1 Standard parameters for ACP function (Cont'd)

Standard	Parameter Name	Setting
LTE TDD Uplink/Downlink 3MHz BW (UTRA 1.6MHz)	Trace Points	1001
	Span Frequency	9.4 MHz
	RBW	30 kHz
	Detection	RMS
	Sweep Time Switch	Auto
	Auto Sweep Time Select	Normal
	ACP Reference	Carrier Select
	Carrier Number	1
	Carrier BW	2.715 MHz (DL) 2.7 MHz (UL)
	Carrier Spacing	3 MHz
	In Band Center	Center Frequency
	In Band Filter Type	Rect
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	Off
	Offset Freq-1	2.3 MHz
	Offset Freq-2	3.9 MHz
	Offset Freq-3	5.5 MHz
	Ch BW	1.28 MHz
	Offset Filter Type	Root Nyquist
	Offset Roll-off Factor	0.22
	Offset Setting*	Normal

*: Only Downlink is set for Offset Setting.

Table D-1 Standard parameters for ACP function (Cont'd)

Standard	Parameter Name	Setting
LTE Uplink/Downlink 3MHz BW (E-UTRA 3MHz)	Trace Points	1001
	Span Frequency	15 MHz
	RBW	30 kHz
	Detection	RMS
	Sweep Time Switch	Auto
	Auto Sweep Time Select	Normal
	ACP Reference	Carrier Select
	Carrier Number	1
	Carrier BW	2.715 MHz (DL) 2.7 MHz (UL)
	Carrier Spacing	3 MHz
	In Band Center	Center Frequency
	In Band Filter Type	Rect
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	Off
	Offset Freq-1	3 MHz
	Offset Freq-2	6 MHz
	Offset Freq-3	9 MHz
	Ch BW	2.715 MHz (DL) 2.7 MHz (UL)
	Offset Filter Type	Rect

Table D-1 Standard parameters for ACP function (Cont'd)

Standard	Parameter Name	Setting
LTE TDD Uplink/Downlink 3MHz BW (E-UTRA 3MHz)	Trace Points	1001
	Span Frequency	15 MHz
	RBW	30 kHz
	Detection	RMS
	Sweep Time Switch	Auto
	Auto Sweep Time Select	Normal
	ACP Reference	Carrier Select
	Carrier Number	1
	Carrier BW	2.715 MHz (DL) 2.7 MHz (UL)
	Carrier Spacing	3 MHz
	In Band Center	Center Frequency
	In Band Filter Type	Rect
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	Off
	Offset Freq-1	3 MHz
	Offset Freq-2	6 MHz
	Offset Freq-3	9 MHz
	Ch BW	2.715 MHz (DL) 2.7 MHz (UL)
	Offset Filter Type	Rect
	Offset Setting*	Normal

*: Only Downlink is set for Offset Setting.

Table D-1 Standard parameters for ACP function (Cont'd)

Standard	Parameter Name	Setting
LTE TDD Downlink 3MHz BW (Adv mode)	Trace Points	1001
	Span Frequency	20 MHz
	RBW	30 kHz
	Detection	RMS
	Sweep Time Switch	Auto
	Auto Sweep Time Select	Normal
	ACP Reference	Carrier Select
	Carrier Number	1
	Carrier BW	2.715 MHz
	Carrier Spacing	3 MHz
	In Band Center	Center Frequency
	In Band Filter Type	Rect
	Offset Setting	Adv.
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	On
	Offset-5 On/Off	Off
	Offset-6 On/Off	Off
	Offset-7 On/Off	Off
	Offset-8 On/Off	Off
	Offset Freq-1	3 MHz
	Offset Freq-2	6 MHz
	Offset Freq-3	2.3 MHz
	Offset Freq-4	3.9 MHz
	Offset Freq-5	3.9 MHz
	Offset Freq-6	3.9 MHz
	Offset Freq-7	3.9 MHz
	Offset Freq-8	3.9 MHz

Table D-1 Standard parameters for ACP function (Cont'd)

Standard	Parameter Name	Setting
LTE TDD Downlink 3MHz BW (Adv mode) (Cont'd)	BW Offset-1	4.515 MHz
	BW Offset-2	4.515 MHz
	BW Offset-3	1.28 MHz
	BW Offset-4	1.28 MHz
	BW Offset-5	1.28 MHz
	BW Offset-6	1.28 MHz
	BW Offset-7	1.28 MHz
	BW Offset-8	1.28 MHz
	Offset Filter Type-1	Rect
	Offset Filter Type-2	Rect
	Offset Filter Type-3	Root Nyquist
	Offset Filter Type-4	Root Nyquist
	Offset Filter Type-5	Root Nyquist
	Offset Filter Type-6	Root Nyquist
	Offset Filter Type-7	Root Nyquist
	Offset Filter Type-8	Root Nyquist
	Offset Roll-off Factor-1	0.22
	Offset Roll-off Factor-2	0.22
	Offset Roll-off Factor-3	0.22
	Offset Roll-off Factor-4	0.22
	Offset Roll-off Factor-5	0.22
	Offset Roll-off Factor-6	0.22
	Offset Roll-off Factor-7	0.22
	Offset Roll-off Factor-8	0.22

Table D-1 Standard parameters for ACP function (Cont'd)

Standard	Parameter Name	Setting
LTE Uplink/Downlink 5MHz BW (UTRA 5MHz)	Trace Points	1001
	Span Frequency	25 MHz
	RBW	30 kHz
	Detection	RMS
	Sweep Time Switch	Auto
	Auto Sweep Time Select	Normal
	ACP Reference	Carrier Select
	Carrier Number	1
	Carrier BW	4.515 MHz (DL) 4.5 MHz (UL)
	Carrier Spacing	5 MHz
	In Band Center	Center Frequency
	In Band Filter Type	Rect
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	Off
	Offset Freq-1	5 MHz
	Offset Freq-2	10 MHz
	Offset Freq-3	15 MHz
	Ch BW	3.84 MHz
	Offset Filter Type	Root Nyquist
	Offset Roll-off Factor	0.22

Table D-1 Standard parameters for ACP function (Cont'd)

Standard	Parameter Name	Setting
LTE TDD Uplink/Downlink 5MHz BW (UTRA 1.6MHz)	Trace Points	1001
	Span Frequency	11.4 MHz
	RBW	30 kHz
	Detection	RMS
	Sweep Time Switch	Auto
	Auto Sweep Time Select	Normal
	ACP Reference	Carrier Select
	Carrier Number	1
	Carrier BW	4.515 MHz (DL) 4.5 MHz (UL)
	Carrier Spacing	5 MHz
	In Band Center	Center Frequency
	In Band Filter Type	Rect
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	Off
	Offset Freq-1	3.3 MHz
	Offset Freq-2	4.9 MHz
	Offset Freq-3	6.5 MHz
	Ch BW	1.28 MHz
	Offset Filter Type	Root Nyquist
	Offset Roll-off Factor	0.22
	Offset Setting*	Normal

*: Only Downlink is set for Offset Setting.

Table D-1 Standard parameters for ACP function (Cont'd)

Standard	Parameter Name	Setting
LTE TDD Downlink 5MHz BW (UTRA 5MHz)	Trace Points	1001
	Span Frequency	25 MHz
	RBW	30 kHz
	Detection	RMS
	Sweep Time Switch	Auto
	Auto Sweep Time Select	Normal
	ACP Reference	Carrier Select
	Carrier Number	1
	Carrier BW	4.515 MHz
	Carrier Spacing	5 MHz
	In Band Center	Center Frequency
	In Band Filter Type	Rect
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	Off
	Offset Freq-1	5 MHz
	Offset Freq-2	10 MHz
	Offset Freq-3	15 MHz
	Ch BW	3.84 MHz
	Offset Filter Type	Root Nyquist
	Offset Roll-off Factor	0.22
	Offset Setting*	Normal

*: Only Downlink is set for Offset Setting.

Table D-1 Standard parameters for ACP function (Cont'd)

Standard	Parameter Name	Setting
LTE TDD Downlink 5MHz BW (UTRA 10MHz)	Trace Points	1001
	Span Frequency	45 MHz
	RBW	30 kHz
	Detection	RMS
	Sweep Time Switch	Auto
	Auto Sweep Time Select	Normal
	ACP Reference	Carrier Select
	Carrier Number	1
	Carrier BW	4.515 MHz
	Carrier Spacing	5 MHz
	In Band Center	Center Frequency
	In Band Filter Type	Rect
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	Off
	Offset Freq-1	7.5 MHz
	Offset Freq-2	17.5 MHz
	Offset Freq-3	27.5 MHz
	Ch BW	7.68 MHz
	Offset Filter Type	Root Nyquist
	Offset Roll-off Factor	0.22
	Offset Setting*	Normal

*: Only Downlink is set for Offset Setting.

Table D-1 Standard parameters for ACP function (Cont'd)

Standard	Parameter Name	Setting
LTE Uplink/Downlink 5MHz BW (E-UTRA 5MHz)	Trace Points	1001
	Span Frequency	25 MHz
	RBW	30 kHz
	Detection	RMS
	Sweep Time Switch	Auto
	Auto Sweep Time Select	Normal
	ACP Reference	Carrier Select
	Carrier Number	1
	Carrier BW	4.515 MHz (DL) 4.5 MHz (UL)
	Carrier Spacing	5 MHz
	In Band Center	Center Frequency
	In Band Filter Type	Rect
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	Off
	Offset Freq-1	5 MHz
	Offset Freq-2	10 MHz
	Offset Freq-3	15 MHz
	Ch BW	4.515 MHz (DL) 4.5 MHz (UL)
	Offset Filter Type	Rect

Table D-1 Standard parameters for ACP function (Cont'd)

Standard	Parameter Name	Setting
LTE TDD Uplink/Downlink 5MHz BW (E-UTRA 5MHz)	Trace Points	1001
	Span Frequency	25 MHz
	RBW	30 kHz
	Detection	RMS
	Sweep Time Switch	Auto
	Auto Sweep Time Select	Normal
	ACP Reference	Carrier Select
	Carrier Number	1
	Carrier BW	4.515 MHz (DL) 4.5 MHz (UL)
	Carrier Spacing	5 MHz
	In Band Center	Center Frequency
	In Band Filter Type	Rect
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	Off
	Offset Freq-1	5 MHz
	Offset Freq-2	10 MHz
	Offset Freq-3	15 MHz
	Ch BW	4.515 MHz (DL) 4.5 MHz (UL)
	Offset Filter Type	Rect
	Offset Setting*	Normal

*: Only Downlink is set for Offset Setting.

Table D-1 Standard parameters for ACP function (Cont'd)

Standard	Parameter Name	Setting
LTE TDD Downlink 5MHz BW (Adv mode)	Trace Points	1001
	Span Frequency	45 MHz
	RBW	30 kHz
	Detection	RMS
	Sweep Time Switch	Auto
	Auto Sweep Time Select	Normal
	ACP Reference	Carrier Select
	Carrier Number	1
	Carrier BW	4.515 MHz
	Carrier Spacing	5 MHz
	In Band Center	Center Frequency
	In Band Filter Type	Rect
	Offset Setting	Adv.
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	On
	Offset-5 On/Off	On
	Offset-6 On/Off	On
	Offset-7 On/Off	On
	Offset-8 On/Off	On
	Offset Freq-1	5 MHz
	Offset Freq-2	10 MHz
	Offset Freq-3	3.3 MHz
	Offset Freq-4	4.9 MHz
	Offset Freq-5	5 MHz
	Offset Freq-6	10 MHz
	Offset Freq-7	7.5 MHz
	Offset Freq-8	17.5 MHz

Table D-1 Standard parameters for ACP function (Cont'd)

Standard	Parameter Name	Setting
LTE TDD Downlink 5MHz BW (Adv mode) (Cont'd)	BW Offset-1	4.515 MHz
	BW Offset-2	4.515 MHz
	BW Offset-3	1.28 MHz
	BW Offset-4	1.28 MHz
	BW Offset-5	3.84 MHz
	BW Offset-6	3.84 MHz
	BW Offset-7	7.68 MHz
	BW Offset-8	7.68 MHz
	Offset Filter Type-1	Rect
	Offset Filter Type-2	Rect
	Offset Filter Type-3	Root Nyquist
	Offset Filter Type-4	Root Nyquist
	Offset Filter Type-5	Root Nyquist
	Offset Filter Type-6	Root Nyquist
	Offset Filter Type-7	Root Nyquist
	Offset Filter Type-8	Root Nyquist
	Offset Roll-off Factor-1	0.22
	Offset Roll-off Factor-2	0.22
	Offset Roll-off Factor-3	0.22
	Offset Roll-off Factor-4	0.22
	Offset Roll-off Factor-5	0.22
	Offset Roll-off Factor-6	0.22
	Offset Roll-off Factor-7	0.22
	Offset Roll-off Factor-8	0.22

Table D-1 Standard parameters for ACP function (Cont'd)

Standard	Parameter Name	Setting
LTE Uplink/Downlink 10MHz BW (UTRA 5MHz)	Trace Points	1001
	Span Frequency	30 MHz
	RBW	30 kHz
	Detection	RMS
	Sweep Time Switch	Auto
	Auto Sweep Time Select	Normal
	ACP Reference	Carrier Select
	Carrier Number	1
	Carrier BW	9.015 MHz (DL) 9 MHz (UL)
	Carrier Spacing	10 MHz
	In Band Center	Center Frequency
	In Band Filter Type	Rect
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	Off
	Offset Freq-1	7.5 MHz
	Offset Freq-2	12.5 MHz
	Offset Freq-3	17.5 MHz
	Ch BW	3.84 MHz
	Offset Filter Type	Root Nyquist
	Offset Roll-off Factor	0.22

Table D-1 Standard parameters for ACP function (Cont'd)

Standard	Parameter Name	Setting
LTE TDD Uplink/Downlink 10MHz BW (UTRA 1.6MHz)	Trace Points	1001
	Span Frequency	16.4 MHz
	RBW	30 kHz
	Detection	RMS
	Sweep Time Switch	Auto
	Auto Sweep Time Select	Normal
	ACP Reference	Carrier Select
	Carrier Number	1
	Carrier BW	9.015 MHz (DL) 9 MHz (UL)
	Carrier Spacing	10 MHz
	In Band Center	Center Frequency
	In Band Filter Type	Rect
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	Off
	Offset Freq-1	5.8 MHz
	Offset Freq-2	7.4 MHz
	Offset Freq-3	9 MHz
	Ch BW	1.28 MHz
	Offset Filter Type	Root Nyquist
	Offset Roll-off Factor	0.22
	Offset Setting*	Normal

*: Only Downlink is set for Offset Setting.

Table D-1 Standard parameters for ACP function (Cont'd)

Standard	Parameter Name	Setting
LTE TDD Downlink 10MHz BW (UTRA 5MHz)	Trace Points	1001
	Span Frequency	30 MHz
	RBW	30 kHz
	Detection	RMS
	Sweep Time Switch	Auto
	Auto Sweep Time Select	Normal
	ACP Reference	Carrier Select
	Carrier Number	1
	Carrier BW	9.015 MHz
	Carrier Spacing	10 MHz
	In Band Center	Center Frequency
	In Band Filter Type	Rect
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	Off
	Offset Freq-1	7.5 MHz
	Offset Freq-2	12.5 MHz
	Offset Freq-3	17.5 MHz
	Ch BW	3.84 MHz
	Offset Filter Type	Root Nyquist
	Offset Roll-off Factor	0.22
	Offset Setting*	Normal

*: Only Downlink is set for Offset Setting.

Table D-1 Standard parameters for ACP function (Cont'd)

Standard	Parameter Name	Setting
LTE TDD Downlink 10MHz BW (UTRA 10MHz)	Trace Points	1001
	Span Frequency	50 MHz
	RBW	30 kHz
	Detection	RMS
	Sweep Time Switch	Auto
	Auto Sweep Time Select	Normal
	ACP Reference	Carrier Select
	Carrier Number	1
	Carrier BW	9.015 MHz
	Carrier Spacing	10 MHz
	In Band Center	Center Frequency
	In Band Filter Type	Rect
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	Off
	Offset Freq-1	10 MHz
	Offset Freq-2	20 MHz
	Offset Freq-3	30 MHz
	Ch BW	7.68 MHz
	Offset Filter Type	Root Nyquist
	Offset Roll-off Factor	0.22
	Offset Setting*	Normal

*: Only Downlink is set for Offset Setting.

Table D-1 Standard parameters for ACP function (Cont'd)

Standard	Parameter Name	Setting
LTE Uplink/Downlink 10MHz BW (E-UTRA 10MHz)	Trace Points	1001
	Span Frequency	50 MHz
	RBW	100 kHz
	Detection	RMS
	Sweep Time Switch	Auto
	Auto Sweep Time Select	Normal
	ACP Reference	Carrier Select
	Carrier Number	1
	Carrier BW	9.015 MHz (DL) 9 MHz (UL)
	Carrier Spacing	10 MHz
	In Band Center	Center Frequency
	In Band Filter Type	Rect
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	Off
	Offset Freq-1	10 MHz
	Offset Freq-2	20 MHz
	Offset Freq-3	30 MHz
	Ch BW	9.015 MHz (DL) 9 MHz (UL)
	Offset Filter Type	Rect

Table D-1 Standard parameters for ACP function (Cont'd)

Standard	Parameter Name	Setting
LTE TDD Uplink/Downlink 10MHz BW (E-UTRA 10MHz)	Trace Points	1001
	Span Frequency	50 MHz
	RBW	30 kHz
	Detection	RMS
	Sweep Time Switch	Auto
	Auto Sweep Time Select	Normal
	ACP Reference	Carrier Select
	Carrier Number	1
	Carrier BW	9.015 MHz (DL) 9 MHz (UL)
	Carrier Spacing	10 MHz
	In Band Center	Center Frequency
	In Band Filter Type	Rect
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	Off
	Offset Freq-1	10 MHz
	Offset Freq-2	20 MHz
	Offset Freq-3	30 MHz
	Ch BW	9.015 MHz (DL) 9 MHz (UL)
	Offset Filter Type	Rect
	Offset Setting*	Normal

*: Only Downlink is set for Offset Setting.

Table D-1 Standard parameters for ACP function (Cont'd)

Standard	Parameter Name	Setting
LTE TDD Downlink 10MHz BW (Adv mode)	Trace Points	1001
	Span Frequency	50 MHz
	RBW	30 kHz
	Detection	RMS
	Sweep Time Switch	Auto
	Auto Sweep Time Select	Normal
	ACP Reference	Carrier Select
	Carrier Number	1
	Carrier BW	9.015 MHz
	Carrier Spacing	10 MHz
	In Band Center	Center Frequency
	In Band Filter Type	Rect
	Offset Setting	Adv.
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	On
	Offset-5 On/Off	On
	Offset-6 On/Off	On
	Offset-7 On/Off	On
	Offset-8 On/Off	On
	Offset Freq-1	10 MHz
	Offset Freq-2	20 MHz
	Offset Freq-3	5.8 MHz
	Offset Freq-4	7.4 MHz
	Offset Freq-5	7.5 MHz
	Offset Freq-6	12.5 MHz
	Offset Freq-7	10 MHz
	Offset Freq-8	20 MHz

Table D-1 Standard parameters for ACP function (Cont'd)

Standard	Parameter Name	Setting
LTE TDD Downlink 10MHz BW (Adv mode) (Cont'd)	BW Offset-1	9.015 MHz
	BW Offset-2	9.015 MHz
	BW Offset-3	1.28 MHz
	BW Offset-4	1.28 MHz
	BW Offset-5	3.84 MHz
	BW Offset-6	3.84 MHz
	BW Offset-7	7.68 MHz
	BW Offset-8	7.68 MHz
	Offset Filter Type-1	Rect
	Offset Filter Type-2	Rect
	Offset Filter Type-3	Root Nyquist
	Offset Filter Type-4	Root Nyquist
	Offset Filter Type-5	Root Nyquist
	Offset Filter Type-6	Root Nyquist
	Offset Filter Type-7	Root Nyquist
	Offset Filter Type-8	Root Nyquist
	Offset Roll-off Factor-1	0.22
	Offset Roll-off Factor-2	0.22
	Offset Roll-off Factor-3	0.22
	Offset Roll-off Factor-4	0.22
	Offset Roll-off Factor-5	0.22
	Offset Roll-off Factor-6	0.22
	Offset Roll-off Factor-7	0.22
	Offset Roll-off Factor-8	0.22

Table D-1 Standard parameters for ACP function (Cont'd)

Standard	Parameter Name	Setting
LTE Uplink/Downlink 15MHz BW (UTRA 5MHz)	Trace Points	1001
	Span Frequency	35 MHz
	RBW	30 kHz
	Detection	RMS
	Sweep Time Switch	Auto
	Auto Sweep Time Select	Normal
	ACP Reference	Carrier Select
	Carrier Number	1
	Carrier BW	13.515 MHz (DL) 13.5 MHz (UL)
	Carrier Spacing	15 MHz
	In Band Center	Center Frequency
	In Band Filter Type	Rect
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	Off
	Offset Freq-1	10 MHz
	Offset Freq-2	15 MHz
	Offset Freq-3	20 MHz
	Ch BW	3.84 MHz
	Offset Filter Type	Root Nyquist
	Offset Roll-off Factor	0.22

Table D-1 Standard parameters for ACP function (Cont'd)

Standard	Parameter Name	Setting
LTE TDD Uplink/Downlink 15MHz BW (UTRA 1.6MHz)	Trace Points	1001
	Span Frequency	21.4 MHz
	RBW	30 kHz
	Detection	RMS
	Sweep Time Switch	Auto
	Auto Sweep Time Select	Normal
	ACP Reference	Carrier Select
	Carrier Number	1
	Carrier BW	13.515 MHz (DL) 13.5 MHz (UL)
	Carrier Spacing	15 MHz
	In Band Center	Center Frequency
	In Band Filter Type	Rect
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	Off
	Offset Freq-1	8.3 MHz
	Offset Freq-2	9.9 MHz
	Offset Freq-3	11.5 MHz
	Ch BW	1.28 MHz
	Offset Filter Type	Root Nyquist
	Offset Roll-off Factor	0.22
	Offset Setting*	Normal

*: Only Downlink is set for Offset Setting.

Table D-1 Standard parameters for ACP function (Cont'd)

Standard	Parameter Name	Setting
LTE TDD Downlink 15MHz BW (UTRA 5MHz)	Trace Points	1001
	Span Frequency	35 MHz
	RBW	30 kHz
	Detection	RMS
	Sweep Time Switch	Auto
	Auto Sweep Time Select	Normal
	ACP Reference	Carrier Select
	Carrier Number	1
	Carrier BW	13.515 MHz
	Carrier Spacing	15 MHz
	In Band Center	Center Frequency
	In Band Filter Type	Rect
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	Off
	Offset Freq-1	10 MHz
	Offset Freq-2	15 MHz
	Offset Freq-3	20 MHz
	Ch BW	3.84 MHz
	Offset Filter Type	Root Nyquist
	Offset Roll-off Factor	0.22
	Offset Setting*	Normal

*: Only Downlink is set for Offset Setting.

Table D-1 Standard parameters for ACP function (Cont'd)

Standard	Parameter Name	Setting
LTE TDD Downlink 15MHz BW (UTRA 10MHz)	Trace Points	1001
	Span Frequency	55 MHz
	RBW	30 kHz
	Detection	RMS
	Sweep Time Switch	Auto
	Auto Sweep Time Select	Normal
	ACP Reference	Carrier Select
	Carrier Number	1
	Carrier BW	13.515 MHz
	Carrier Spacing	15 MHz
	In Band Center	Center Frequency
	In Band Filter Type	Rect
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	Off
	Offset Freq-1	12.5 MHz
	Offset Freq-2	22.5 MHz
	Offset Freq-3	32.5 MHz
	Ch BW	7.68 MHz
	Offset Filter Type	Root Nyquist
	Offset Roll-off Factor	0.22
	Offset Setting*	Normal

*: Only Downlink is set for Offset Setting.

Table D-1 Standard parameters for ACP function (Cont'd)

Standard	Parameter Name	Setting
LTE Uplink/Downlink 15MHz BW (E-UTRA 15MHz)	Trace Points	1001
	Span Frequency	75 MHz
	RBW	100 kHz
	Detection	RMS
	Sweep Time Switch	Auto
	Auto Sweep Time Select	Normal
	ACP Reference	Carrier Select
	Carrier Number	1
	Carrier BW	13.515 MHz (DL) 13.5 MHz (UL)
	Carrier Spacing	15 MHz
	In Band Center	Center Frequency
	In Band Filter Type	Rect
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	Off
	Offset Freq-1	15 MHz
	Offset Freq-2	30 MHz
	Offset Freq-3	45 MHz
	Ch BW	13.515 MHz (DL) 13.5 MHz (UL)
	Offset Filter Type	Rect

Table D-1 Standard parameters for ACP function (Cont'd)

Standard	Parameter Name	Setting
LTE TDD Uplink/Downlink 15MHz BW (E-UTRA 15MHz)	Trace Points	1001
	Span Frequency	75 MHz
	RBW	30 kHz
	Detection	RMS
	Sweep Time Switch	Auto
	Auto Sweep Time Select	Normal
	ACP Reference	Carrier Select
	Carrier Number	1
	Carrier BW	13.515 MHz (DL) 13.5 MHz (UL)
	Carrier Spacing	15 MHz
	In Band Center	Center Frequency
	In Band Filter Type	Rect
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	Off
	Offset Freq-1	15 MHz
	Offset Freq-2	30 MHz
	Offset Freq-3	45 MHz
	Ch BW	13.515 MHz (DL) 13.5 MHz (UL)
	Offset Filter Type	Rect
	Offset Setting*	Normal

*: Only Downlink is set for Offset Setting.

Table D-1 Standard parameters for ACP function (Cont'd)

Standard	Parameter Name	Setting
LTE TDD Downlink 15MHz BW (Adv mode)	Trace Points	1001
	Span Frequency	75 MHz
	RBW	30 kHz
	Detection	RMS
	Sweep Time Switch	Auto
	Auto Sweep Time Select	Normal
	ACP Reference	Carrier Select
	Carrier Number	1
	Carrier BW	13.515 MHz
	Carrier Spacing	15 MHz
	In Band Center	Center Frequency
	In Band Filter Type	Rect
	Offset Setting	Adv.
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	On
	Offset-5 On/Off	On
	Offset-6 On/Off	On
	Offset-7 On/Off	On
	Offset-8 On/Off	On
	Offset Freq-1	15 MHz
	Offset Freq-2	30 MHz
	Offset Freq-3	8.3 MHz
	Offset Freq-4	9.9 MHz
	Offset Freq-5	10 MHz
	Offset Freq-6	15 MHz
	Offset Freq-7	12.5 MHz
	Offset Freq-8	22.5 MHz

Table D-1 Standard parameters for ACP function (Cont'd)

Standard	Parameter Name	Setting
LTE TDD Downlink 15MHz BW (Adv mode) (Cont'd)	BW Offset-1	13.515 MHz
	BW Offset-2	13.515 MHz
	BW Offset-3	1.28 MHz
	BW Offset-4	1.28 MHz
	BW Offset-5	3.84 MHz
	BW Offset-6	3.84 MHz
	BW Offset-7	7.68 MHz
	BW Offset-8	7.68 MHz
	Offset Filter Type-1	Rect
	Offset Filter Type-2	Rect
	Offset Filter Type-3	Root Nyquist
	Offset Filter Type-4	Root Nyquist
	Offset Filter Type-5	Root Nyquist
	Offset Filter Type-6	Root Nyquist
	Offset Filter Type-7	Root Nyquist
	Offset Filter Type-8	Root Nyquist
	Offset Roll-off Factor-1	0.22
	Offset Roll-off Factor-2	0.22
	Offset Roll-off Factor-3	0.22
	Offset Roll-off Factor-4	0.22
	Offset Roll-off Factor-5	0.22
	Offset Roll-off Factor-6	0.22
	Offset Roll-off Factor-7	0.22
	Offset Roll-off Factor-8	0.22

Table D-1 Standard parameters for ACP function (Cont'd)

Standard	Parameter Name	Setting
LTE Uplink/Downlink 20MHz BW (UTRA 5MHz)	Trace Points	1001
	Span Frequency	40 MHz
	RBW	30 kHz
	Detection	RMS
	Sweep Time Switch	Auto
	Auto Sweep Time Select	Normal
	ACP Reference	Carrier Select
	Carrier Number	1
	Carrier BW	18.015 MHz (DL) 18 MHz (UL)
	Carrier Spacing	20 MHz
	In Band Center	Center Frequency
	In Band Filter Type	Rect
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	Off
	Offset Freq-1	12.5 MHz
	Offset Freq-2	17.5 MHz
	Offset Freq-3	22.5 MHz
	Ch BW	3.84 MHz
	Offset Filter Type	Root Nyquist
	Offset Roll-off Factor	0.22

Table D-1 Standard parameters for ACP function (Cont'd)

Standard	Parameter Name	Setting
LTE TDD Uplink/Downlink 20MHz BW (UTRA 1.6MHz)	Trace Points	1001
	Span Frequency	26.4 MHz
	RBW	30 kHz
	Detection	RMS
	Sweep Time Switch	Auto
	Auto Sweep Time Select	Normal
	ACP Reference	Carrier Select
	Carrier Number	1
	Carrier BW	18.015 MHz (DL) 18 MHz (UL)
	Carrier Spacing	20 MHz
	In Band Center	Center Frequency
	In Band Filter Type	Rect
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	Off
	Offset Freq-1	10.8 MHz
	Offset Freq-2	12.4 MHz
	Offset Freq-3	14 MHz
	Ch BW	1.28 MHz
	Offset Filter Type	Root Nyquist
	Offset Roll-off Factor	0.22
	Offset Setting*	Normal

*: Only Downlink is set for Offset Setting.

Table D-1 Standard parameters for ACP function (Cont'd)

Standard	Parameter Name	Setting
LTE TDD Downlink 20MHz BW (UTRA 5MHz)	Trace Points	1001
	Span Frequency	40 MHz
	RBW	30 kHz
	Detection	RMS
	Sweep Time Switch	Auto
	Auto Sweep Time Select	Normal
	ACP Reference	Carrier Select
	Carrier Number	1
	Carrier BW	18.015 MHz
	Carrier Spacing	20 MHz
	In Band Center	Center Frequency
	In Band Filter Type	Rect
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	Off
	Offset Freq-1	12.5 MHz
	Offset Freq-2	17.5 MHz
	Offset Freq-3	22.5 MHz
	Ch BW	3.84 MHz
	Offset Filter Type	Root Nyquist
	Offset Roll-off Factor	0.22
	Offset Setting*	Normal

*: Only Downlink is set for Offset Setting.

Table D-1 Standard parameters for ACP function (Cont'd)

Standard	Parameter Name	Setting
LTE TDD Downlink 20MHz BW (UTRA 10MHz)	Trace Points	1001
	Span Frequency	60 MHz
	RBW	30 kHz
	Detection	RMS
	Sweep Time Switch	Auto
	Auto Sweep Time Select	Normal
	ACP Reference	Carrier Select
	Carrier Number	1
	Carrier BW	18.015 MHz
	Carrier Spacing	20 MHz
	In Band Center	Center Frequency
	In Band Filter Type	Rect
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	Off
	Offset Freq-1	15 MHz
	Offset Freq-2	25 MHz
	Offset Freq-3	35 MHz
	Ch BW	7.68 MHz
	Offset Filter Type	Root Nyquist
	Offset Roll-off Factor	0.22
	Offset Setting*	Normal

*: Only Downlink is set for Offset Setting.

Table D-1 Standard parameters for ACP function (Cont'd)

Standard	Parameter Name	Setting
LTE Uplink/Downlink 20MHz BW (E-UTRA 20MHz)	Trace Points	1001
	Span Frequency	100 MHz
	RBW	100 kHz
	Detection	RMS
	Sweep Time Switch	Auto
	Auto Sweep Time Select	Normal
	ACP Reference	Carrier Select
	Carrier Number	1
	Carrier BW	18.015 MHz (DL) 18 MHz (UL)
	Carrier Spacing	20 MHz
	In Band Center	Center Frequency
	In Band Filter Type	Rect
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	Off
	Offset Freq-1	20 MHz
	Offset Freq-2	40 MHz
	Offset Freq-3	60 MHz
	Ch BW	18.015 MHz (DL) 18 MHz (UL)
	Offset Filter Type	Rect

Table D-1 Standard parameters for ACP function (Cont'd)

Standard	Parameter Name	Setting
LTE TDD Uplink/Downlink 20MHz BW (E-UTRA 20MHz)	Trace Points	1001
	Span Frequency	100 MHz
	RBW	30 kHz
	Detection	RMS
	Sweep Time Switch	Auto
	Auto Sweep Time Select	Normal
	ACP Reference	Carrier Select
	Carrier Number	1
	Carrier BW	18.015 MHz (DL) 18 MHz (UL)
	Carrier Spacing	20 MHz
	In Band Center	Center Frequency
	In Band Filter Type	Rect
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	Off
	Offset Freq-1	20 MHz
	Offset Freq-2	40 MHz
	Offset Freq-3	60 MHz
	Ch BW	18.015 MHz (DL) 18 MHz (UL)
	Offset Filter Type	Rect
	Offset Setting*	Normal

*: Only Downlink is set for Offset Setting.

Table D-1 Standard parameters for ACP function (Cont'd)

Standard	Parameter Name	Setting
LTE TDD Downlink 20MHz BW (Adv mode)	Trace Points	1001
	Span Frequency	100 MHz
	RBW	30 kHz
	Detection	RMS
	Sweep Time Switch	Auto
	Auto Sweep Time Select	Normal
	ACP Reference	Carrier Select
	Carrier Number	1
	Carrier BW	18.015 MHz
	Carrier Spacing	20 MHz
	In Band Center	Center Frequency
	In Band Filter Type	Rect
	Offset Setting	Adv.
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	On
	Offset-5 On/Off	On
	Offset-6 On/Off	On
	Offset-7 On/Off	On
	Offset-8 On/Off	On
	Offset Freq-1	20 MHz
	Offset Freq-2	40 MHz
	Offset Freq-3	10.8 MHz
	Offset Freq-4	12.4 MHz
	Offset Freq-5	12.5 MHz
	Offset Freq-6	17.5 MHz
	Offset Freq-7	15 MHz
	Offset Freq-8	25 MHz

Table D-1 Standard parameters for ACP function (Cont'd)

Standard	Parameter Name	Setting
LTE TDD Downlink 20MHz BW (Adv mode) (Cont'd)	BW Offset-1	18.015 MHz
	BW Offset-2	18.015 MHz
	BW Offset-3	1.28 MHz
	BW Offset-4	1.28 MHz
	BW Offset-5	3.84 MHz
	BW Offset-6	3.84 MHz
	BW Offset-7	7.68 MHz
	BW Offset-8	7.68 MHz
	Offset Filter Type-1	Rect
	Offset Filter Type-2	Rect
	Offset Filter Type-3	Root Nyquist
	Offset Filter Type-4	Root Nyquist
	Offset Filter Type-5	Root Nyquist
	Offset Filter Type-6	Root Nyquist
	Offset Filter Type-7	Root Nyquist
	Offset Filter Type-8	Root Nyquist
	Offset Roll-off Factor-1	0.22
	Offset Roll-off Factor-2	0.22
	Offset Roll-off Factor-3	0.22
	Offset Roll-off Factor-4	0.22
	Offset Roll-off Factor-5	0.22
	Offset Roll-off Factor-6	0.22
	Offset Roll-off Factor-7	0.22
	Offset Roll-off Factor-8	0.22

DSRC

Table D-1 Standard parameters for ACP function (Cont'd)

Standard	Parameter Name	Setting
DSRC π/4DQPSK	Trace Points	1001
	Span Frequency	25 MHz
	RBW	30 kHz
	VBW	100 kHz
	VBW Mode	Power
	Detection	Positive
	Sweep Time Freq. Domain	7.1 s
	Auto Sweep Time Select	Normal
	ACP Reference	Carrier Select
	Carrier Number	1
	Carrier BW	4.4 MHz
	Carrier Spacing	5 MHz
	In Band Center	Center Frequency
	In Band Filter Type	Rect
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	Off
	Offset Freq-1	5 MHz
	Offset Freq-2	10 MHz
	Offset Freq-3	15 MHz
	Ch BW	4.4 MHz
	Offset Filter Type	Rect

Table D-1 Standard parameters for ACP function (Cont'd)

Standard	Parameter Name	Setting
DSRC ASK	Trace Points	1001
	Span Frequency	25 MHz
	RBW	30 kHz
	VBW	100 kHz
	VBW Mode	Power
	Detection	Positive
	Sweep Time Freq. Domain	7.1 s
	Auto Sweep Time Select	Normal
	ACP Reference	Carrier Select
	Carrier Number	1
	Carrier BW	4.4 MHz
	Carrier Spacing	5 MHz
	In Band Center	Center Frequency
	In Band Filter Type	Rect
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	Off
	Offset Freq-1	5 MHz
	Offset Freq-2	10 MHz
	Offset Freq-3	15 MHz
	Ch BW	4.4 MHz
	Offset Filter Type	Rect

TD-SCDMA

Table D-1 Standard parameters for ACP function (Cont'd)

Standard	Parameter Name	Setting
TD-SCDMA (Single Carrier)	Trace Points	1001
	Span Frequency	8 MHz
	RBW	30 kHz
	Detection	RMS
	Sweep Time Switch	Manual
	Sweep Time Freq. Domain	676 ms
	Auto Sweep Time Select	Normal
	ACP Reference	Carrier Select
	Carrier Number	1
	Carrier BW	1.28 MHz
	Carrier Spacing	1.6 MHz
	In Band Center	Center Frequency
	In Band Filter Type	Rect
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	Off
	Offset Freq-1	1.6 MHz
	Offset Freq-2	3.2 MHz
	Offset Freq-3	4.8 MHz
	Ch BW	1.28 MHz
	Offset Filter Type	Root Nyquist
	Offset Roll-off Factor	0.22

Table D-1 Standard parameters for ACP function (Cont'd)

Standard	Parameter Name	Setting
TD-SCDMA (2 Carriers)	Trace Points	1001
	Span Frequency	10 MHz
	RBW	30 kHz
	Detection	RMS
	Sweep Time Switch	Manual
	Sweep Time Freq. Domain	676 ms
	Auto Sweep Time Select	Normal
	ACP Reference	Carrier Select
	Carrier Number	2
	Carrier BW	1.28 MHz
	Carrier Spacing	1.6 MHz
	In Band Center	Center Frequency
	In Band Filter Type	Rect
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	Off
	Offset Freq-1	1.6 MHz
	Offset Freq-2	3.2 MHz
	Offset Freq-3	4.8 MHz
	Ch BW	1.28 MHz
	Offset Filter Type	Root Nyquist
	Offset Roll-off Factor	0.22

Table D-1 Standard parameters for ACP function (Cont'd)

Standard	Parameter Name	Setting
TD-SCDMA (3 Carriers)	Trace Points	1001
	Span Frequency	12 MHz
	RBW	30 kHz
	Detection	RMS
	Sweep Time Switch	Manual
	Sweep Time Freq. Domain	676 ms
	Auto Sweep Time Select	Normal
	ACP Reference	Carrier Select
	Carrier Number	3
	Carrier BW	1.28 MHz
	Carrier Spacing	1.6 MHz
	In Band Center	Center Frequency
	In Band Filter Type	Rect
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	Off
	Offset Freq-1	1.6 MHz
	Offset Freq-2	3.2 MHz
	Offset Freq-3	4.8 MHz
	Ch BW	1.28 MHz
	Offset Filter Type	Root Nyquist
	Offset Roll-off Factor	0.22

Table D-1 Standard parameters for ACP function (Cont'd)

Standard	Parameter Name	Setting
TD-SCDMA (4 Carriers)	Trace Points	1001
	Span Frequency	13 MHz
	RBW	30 kHz
	Detection	RMS
	Sweep Time Switch	Manual
	Sweep Time Freq. Domain	676 ms
	Auto Sweep Time Select	Normal
	ACP Reference	Carrier Select
	Carrier Number	4
	Carrier BW	1.28 MHz
	Carrier Spacing	1.6 MHz
	In Band Center	Center Frequency
	In Band Filter Type	Rect
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	Off
	Offset Freq-1	1.6 MHz
	Offset Freq-2	3.2 MHz
	Offset Freq-3	4.8 MHz
	Ch BW	1.28 MHz
	Offset Filter Type	Root Nyquist
	Offset Roll-off Factor	0.22

Table D-1 Standard parameters for ACP function (Cont'd)

Standard	Parameter Name	Setting
TD-SCDMA (5 Carriers)	Trace Points	1001
	Span Frequency	15 MHz
	RBW	30 kHz
	Detection	RMS
	Sweep Time Switch	Manual
	Sweep Time Freq. Domain	676 ms
	Auto Sweep Time Select	Normal
	ACP Reference	Carrier Select
	Carrier Number	5
	Carrier BW	1.28 MHz
	Carrier Spacing	1.6 MHz
	In Band Center	Center Frequency
	In Band Filter Type	Rect
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	Off
	Offset Freq-1	1.6 MHz
	Offset Freq-2	3.2 MHz
	Offset Freq-3	4.8 MHz
	Ch BW	1.28 MHz
	Offset Filter Type	Root Nyquist
	Offset Roll-off Factor	0.22

Table D-1 Standard parameters for ACP function (Cont'd)

Standard	Parameter Name	Setting
TD-SCDMA (6 Carriers)	Trace Points	1001
	Span Frequency	16 MHz
	RBW	30 kHz
	Detection	RMS
	Sweep Time Switch	Manual
	Sweep Time Freq. Domain	676 ms
	Auto Sweep Time Select	Normal
	ACP Reference	Carrier Select
	Carrier Number	6
	Carrier BW	1.28 MHz
	Carrier Spacing	1.6 MHz
	In Band Center	Center Frequency
	In Band Filter Type	Rect
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	Off
	Offset Freq-1	1.6 MHz
	Offset Freq-2	3.2 MHz
	Offset Freq-3	4.8 MHz
	Ch BW	1.28 MHz
	Offset Filter Type	Root Nyquist
	Offset Roll-off Factor	0.22

Table D-1 Standard parameters for ACP function (Cont'd)

Standard	Parameter Name	Setting
TD-SCDMA (7 Carriers)	Trace Points	1001
	Span Frequency	18 MHz
	RBW	30 kHz
	Detection	RMS
	Sweep Time Switch	Manual
	Sweep Time Freq. Domain	676 ms
	Auto Sweep Time Select	Normal
	ACP Reference	Carrier Select
	Carrier Number	7
	Carrier BW	1.28 MHz
	Carrier Spacing	1.6 MHz
	In Band Center	Center Frequency
	In Band Filter Type	Rect
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	Off
	Offset Freq-1	1.6 MHz
	Offset Freq-2	3.2 MHz
	Offset Freq-3	4.8 MHz
	Ch BW	1.28 MHz
	Offset Filter Type	Root Nyquist
	Offset Roll-off Factor	0.22

Table D-1 Standard parameters for ACP function (Cont'd)

Standard	Parameter Name	Setting
TD-SCDMA (8 Carriers)	Trace Points	1001
	Span Frequency	20 MHz
	RBW	30 kHz
	Detection	RMS
	Sweep Time Switch	Manual
	Sweep Time Freq. Domain	676 ms
	Auto Sweep Time Select	Normal
	ACP Reference	Carrier Select
	Carrier Number	8
	Carrier BW	1.28 MHz
	Carrier Spacing	1.6 MHz
	In Band Center	Center Frequency
	In Band Filter Type	Rect
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	Off
	Offset Freq-1	1.6 MHz
	Offset Freq-2	3.2 MHz
	Offset Freq-3	4.8 MHz
	Ch BW	1.28 MHz
	Offset Filter Type	Root Nyquist
	Offset Roll-off Factor	0.22

Table D-1 Standard parameters for ACP function (Cont'd)

Standard	Parameter Name	Setting
TD-SCDMA (9 Carriers)	Trace Points	1001
	Span Frequency	21 MHz
	RBW	30 kHz
	Detection	RMS
	Sweep Time Switch	Manual
	Sweep Time Freq. Domain	676 ms
	Auto Sweep Time Select	Normal
	ACP Reference	Carrier Select
	Carrier Number	9
	Carrier BW	1.28 MHz
	Carrier Spacing	1.6 MHz
	In Band Center	Center Frequency
	In Band Filter Type	Rect
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	Off
	Offset Freq-1	1.6 MHz
	Offset Freq-2	3.2 MHz
	Offset Freq-3	4.8 MHz
	Ch BW	1.28 MHz
	Offset Filter Type	Root Nyquist
	Offset Roll-off Factor	0.22

Table D-1 Standard parameters for ACP function (Cont'd)

Standard	Parameter Name	Setting
TD-SCDMA (10 Carriers)	Trace Points	1001
	Span Frequency	23 MHz
	RBW	30 kHz
	Detection	RMS
	Sweep Time Switch	Manual
	Sweep Time Freq. Domain	676 ms
	Auto Sweep Time Select	Normal
	ACP Reference	Carrier Select
	Carrier Number	10
	Carrier BW	1.28 MHz
	Carrier Spacing	1.6 MHz
	In Band Center	Center Frequency
	In Band Filter Type	Rect
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	Off
	Offset Freq-1	1.6 MHz
	Offset Freq-2	3.2 MHz
	Offset Freq-3	4.8 MHz
	Ch BW	1.28 MHz
	Offset Filter Type	Root Nyquist
	Offset Roll-off Factor	0.22

Table D-1 Standard parameters for ACP function (Cont'd)

Standard	Parameter Name	Setting
TD-SCDMA (11 Carriers)	Trace Points	1001
	Span Frequency	25 MHz
	RBW	30 kHz
	Detection	RMS
	Sweep Time Switch	Manual
	Sweep Time Freq. Domain	676 ms
	Auto Sweep Time Select	Normal
	ACP Reference	Carrier Select
	Carrier Number	11
	Carrier BW	1.28 MHz
	Carrier Spacing	1.6 MHz
	In Band Center	Center Frequency
	In Band Filter Type	Rect
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	Off
	Offset Freq-1	1.6 MHz
	Offset Freq-2	3.2 MHz
	Offset Freq-3	4.8 MHz
	Ch BW	1.28 MHz
	Offset Filter Type	Root Nyquist
	Offset Roll-off Factor	0.22

Table D-1 Standard parameters for ACP function (Cont'd)

Standard	Parameter Name	Setting
TD-SCDMA (12 Carriers)	Trace Points	1001
	Span Frequency	26 MHz
	RBW	30 kHz
	Detection	RMS
	Sweep Time Switch	Manual
	Sweep Time Freq. Domain	676 ms
	Auto Sweep Time Select	Normal
	ACP Reference	Carrier Select
	Carrier Number	12
	Carrier BW	1.28 MHz
	Carrier Spacing	1.6 MHz
	In Band Center	Center Frequency
	In Band Filter Type	Rect
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	Off
	Offset Freq-1	1.6 MHz
	Offset Freq-2	3.2 MHz
	Offset Freq-3	4.8 MHz
	Ch BW	1.28 MHz
	Offset Filter Type	Root Nyquist
	Offset Roll-off Factor	0.22

CDMA2000

Table D-1 Standard parameters for ACP function (Cont'd)

Standard	Parameter Name	Setting
CDMA2000 Forward Link	Trace Points	1001
	Span Frequency	4.05 MHz
	RBW	30 kHz
	Detection	RMS
	Sweep Time Freq. Domain	1.25 s
	Auto Sweep Time Select	Normal
	ACP Reference	Carrier Select
	Carrier Number	1
	Carrier BW	1.23 MHz
	Carrier Spacing	1.25 MHz
	In Band Center	Center Frequency
	In Band Filter Type	Rect
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	Off
	Offset Freq-1	765 kHz
	Offset Freq-2	1.995 MHz
	Offset Freq-3	4 MHz
	Ch BW	30 kHz
	Offset Filter Type	Rect

EV-DO

Table D-1 Standard parameters for ACP function (Cont'd)

Standard	Parameter Name	Setting
EV-DO Forward Link	Trace Points	1001
	Span Frequency	4.05 MHz
	RBW	30 kHz
	Detection	RMS
	Sweep Time Freq. Domain	1.667 s
	Auto Sweep Time Select	Normal
	ACP Reference	Carrier Select
	Carrier Number	1
	Carrier BW	1.23 MHz
	Carrier Spacing	1.25 MHz
	In Band Center	Center Frequency
	In Band Filter Type	Rect
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	Off
	Offset Freq-1	765 kHz
	Offset Freq-2	1.995 MHz
	Offset Freq-3	4 MHz
	Ch BW	30 kHz
	Offset Filter Type	Rect

TELEC-T403

Table D-1 Standard parameters for ACP function (Cont'd)

Standard	Parameter Name	Setting
TELEC-T403 18MHz SPAN (WLAN)	Frequency Span	100 MHz
	RBW	300 kHz
	Detection	POSITIVE
	SWP	Auto, Normal
	Trace Point	1001
	Adjacent Channel Power	On
	ACP Reference	Carrier-1
	Carrier Number	1
	Carrier BW	18 MHz
	Carrier Spacing	20 MHz
	In Band Center	Center Frequency
	In Band Filter Type	Rect
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	Off
	Offset Freq-1	20 MHz
	Offset Freq-2	40 MHz
	Ch BW	18 MHz
	Offset Ch Filter Type	Rect

Table D-1 Standard parameters for ACP function (Cont'd)

Standard	Parameter Name	Setting
TELEC-T403 19MHz SPAN (WLAN)	Frequency Span	100 MHz
	RBW	300 kHz
	Detection	POSITIVE
	SWP	Auto, Normal
	Trace Point	1001
	Adjacent Channel Power	On
	ACP Reference	Carrier-1
	Carrier Number	1
	Carrier BW	19 MHz
	Carrier Spacing	20 MHz
	In Band Center	Center Frequency
	In Band Filter Type	Rect
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	Off
	Offset Freq-1	20 MHz
	Offset Freq-2	40 MHz
	Ch BW	19 MHz
	Offset Ch Filter Type	Rect

Table D-1 Standard parameters for ACP function (Cont'd)

Standard	Parameter Name	Setting
TELEC-T403 38MHz SPAN (WLAN)	Frequency Span	200 MHz
	RBW	300 kHz
	Detection	POSITIVE
	SWP	Auto, Normal
	Trace Point	1001
	Adjacent Channel Power	On
	ACP Reference	Carrier-1
	Carrier Number	1
	Carrier BW	38 MHz
	Carrier Spacing	40 MHz
	In Band Center	Center Frequency
	In Band Filter Type	Rect
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	Off
	Offset Freq-1	40 MHz
	Offset Freq-2	80 MHz
	Ch BW	38 MHz
	Offset Ch Filter Type	Rect

Table D-1 Standard parameters for ACP function (Cont'd)

Standard	Parameter Name	Setting
TELEC-T403 78MHz SPAN (WLAN)	Frequency Span	400 MHz
	RBW	300 kHz
	Detection	POSITIVE
	SWP	Auto, Normal
	Trace Point	1001
	Adjacent Channel Power	On
	ACP Reference	Carrier-1
	Carrier Number	1
	Carrier BW	78 MHz
	Carrier Spacing	80 MHz
	In Band Center	Center Frequency
	In Band Filter Type	Rect
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	Off
	Offset Freq-1	80 MHz
	Offset Freq-2	160 MHz
	Ch BW	78 MHz
	Offset Ch Filter Type	Rect

TELEC-T405

Table D-1 Standard parameters for ACP function (Cont'd)

Standard	Parameter Name	Setting
TELEC-T405 20MHz BW (WLAN)	Frequency Span	100 MHz
	RBW	30 kHz
	Detection	POSITIVE
	SWP	Auto, Normal
	Trace Point	1001
	Adjacent Channel Power	On
	ACP Reference	Carrier-1
	Carrier Number	1
	Carrier BW	18 MHz
	Carrier Spacing	20 MHz
	In Band Center	Center Frequency
	In Band Filter Type	Rect
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	Off
	Offset Freq-1	20 MHz
	Offset Freq-2	40 MHz
	Ch BW	18 MHz
	Offset Ch Filter Type	Rect

Table D-1 Standard parameters for ACP function (Cont'd)

Standard	Parameter Name	Setting
TELEC-T405 40MHz BW (WLAN)	Frequency Span	200 MHz
	RBW	30 kHz
	Detection	POSITIVE
	SWP	Auto, Normal
	Trace Point	1001
	Adjacent Channel Power	On
	ACP Reference	Carrier-1
	Carrier Number	1
	Carrier BW	38 MHz
	Carrier Spacing	40 MHz
	In Band Center	Center Frequency
	In Band Filter Type	Rect
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	Off
	Offset Freq-1	40 MHz
	Offset Freq-2	80 MHz
	Ch BW	38 MHz
	Offset Ch Filter Type	Rect

BPSK

Table D-1 Standard parameters for ACP function (Cont'd)

Standard	Parameter Name	Setting
BPSK 950MHz (LR-WPANs)	Frequency Span	2 MHz
	RBW	10 kHz
	Detection	RMS
	SWP	Auto, Normal
	Trace Point	1001
	Adjacent Channel Power	On
	ACP Reference	Carrier-1
	Carrier Number	1
	Carrier BW	600 kHz
	Carrier Spacing	600 MHz
	In Band Center	Center Frequency
	In Band Filter Type	Rect
	Offset-1 On/Off	On
	Offset-2 On/Off	Off
	Offset-3 On/Off	Off
	Offset Freq-1	400 kHz
	Offset Freq-2	10 MHz
	Ch BW	200 kHz
	Offset Ch Filter Type	Rect

GFSK

Table D-1 Standard parameters for ACP function (Cont'd)

Standard	Parameter Name	Setting
GFSK 50ksps 950MHz (LR-WPANs)	Frequency Span	2 MHz
	RBW	10 kHz
	Detection	RMS
	SWP	Auto, Normal
	Trace Point	1001
	Adjacent Channel Power	On
	ACP Reference	Carrier-1
	Carrier Number	1
	Carrier BW	200 kHz
	Carrier Spacing	600 MHz
	In Band Center	Center Frequency
	In Band Filter Type	Rect
	Offset-1 On/Off	On
	Offset-2 On/Off	Off
	Offset-3 On/Off	Off
	Offset Freq-1	200 kHz
	Offset Freq-2	10 MHz
	Ch BW	200 kHz
	Offset Ch Filter Type	Rect

Table D-1 Standard parameters for ACP function (Cont'd)

Standard	Parameter Name	Setting
GFSK 100ksps 950MHz (LR-WPANs)	Frequency Span	2 MHz
	RBW	10 kHz
	Detection	RMS
	SWP	Auto, Normal
	Trace Point	1001
	Adjacent Channel Power	On
	ACP Reference	Carrier-1
	Carrier Number	1
	Carrier BW	400 kHz
	Carrier Spacing	600 MHz
	In Band Center	Center Frequency
	In Band Filter Type	Rect
	Offset-1 On/Off	On
	Offset-2 On/Off	Off
	Offset-3 On/Off	Off
	Offset Freq-1	300 kHz
	Offset Freq-2	10 MHz
	Ch BW	200 kHz
	Offset Ch Filter Type	Rect

Table D-1 Standard parameters for ACP function (Cont'd)

Standard	Parameter Name	Setting
GFSK 200ksps 950MHz (LR-WPANs)	Frequency Span	2 MHz
	RBW	10 kHz
	Detection	RMS
	SWP	Auto, Normal
	Trace Point	1001
	Adjacent Channel Power	On
	ACP Reference	Carrier-1
	Carrier Number	1
	Carrier BW	800 kHz
	Carrier Spacing	600 MHz
	In Band Center	Center Frequency
	In Band Filter Type	Rect
	Offset-1 On/Off	On
	Offset-2 On/Off	Off
	Offset-3 On/Off	Off
	Offset Freq-1	500 kHz
	Offset Freq-2	10 MHz
	Ch BW	200 kHz
	Offset Ch Filter Type	Rect

Table D-1 Standard parameters for ACP function (Cont'd)

Standard	Parameter Name	Setting
GFSK 50ksps 920MHz (LR-WPANs)	Frequency Span	2 MHz
	RBW	10 kHz
	Detection	RMS
	SWP	Auto, Normal
	Trace Point	1001
	Adjacent Channel Power	On
	ACP Reference	Carrier-1
	Carrier Number	1
	Carrier BW	200 kHz
	Carrier Spacing	600 MHz
	In Band Center	Center Frequency
	In Band Filter Type	Rect
	Offset-1 On/Off	On
	Offset-2 On/Off	Off
	Offset-3 On/Off	Off
	Offset Freq-1	200 kHz
	Offset Freq-2	10 MHz
	Ch BW	200 kHz
	Offset Ch Filter Type	Rect

Table D-1 Standard parameters for ACP function (Cont'd)

Standard	Parameter Name	Setting
GFSK 100ksps 920MHz (LR-WPANs)	Frequency Span	2 MHz
	RBW	10 kHz
	Detection	RMS
	SWP	Auto, Normal
	Trace Point	1001
	Adjacent Channel Power	On
	ACP Reference	Carrier-1
	Carrier Number	1
	Carrier BW	400 kHz
	Carrier Spacing	600 MHz
	In Band Center	Center Frequency
	In Band Filter Type	Rect
	Offset-1 On/Off	On
	Offset-2 On/Off	Off
	Offset-3 On/Off	Off
	Offset Freq-1	300 kHz
	Offset Freq-2	10 MHz
	Ch BW	200 kHz
	Offset Ch Filter Type	Rect

Table D-1 Standard parameters for ACP function (Cont'd)

Standard	Parameter Name	Setting
GFSK 200ksps 920MHz (LR-WPANs)	Frequency Span	2 MHz
	RBW	10 kHz
	Detection	RMS
	SWP	Auto, Normal
	Trace Point	1001
	Adjacent Channel Power	On
	ACP Reference	Carrier-1
	Carrier Number	1
	Carrier BW	800 kHz
	Carrier Spacing	600 MHz
	In Band Center	Center Frequency
	In Band Filter Type	Rect
	Offset-1 On/Off	On
	Offset-2 On/Off	Off
	Offset-3 On/Off	Off
	Offset Freq-1	500 kHz
	Offset Freq-2	10 MHz
	Ch BW	200 kHz
	Offset Ch Filter Type	Rect

Table D-1 Standard parameters for ACP function (Cont'd)

Standard	Parameter Name	Setting
GFSK 50ksps 802.15.4gd7 (LR-WPANs)	Frequency Span	2 MHz
	RBW	10 kHz
	Detection	RMS
	SWP	Auto, Normal
	Trace Point	1001
	Adjacent Channel Power	On
	ACP Reference	Carrier-1
	Carrier Number	1
	Carrier BW	75 kHz
	Carrier Spacing	150 MHz
	In Band Center	Center Frequency
	In Band Filter Type	Rect
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	Off
	Offset Freq-1	150 kHz
	Offset Freq-2	300 kHz
	Ch BW	150 kHz
	Offset Ch Filter Type	Rect

Table D-1 Standard parameters for ACP function (Cont'd)

Standard	Parameter Name	Setting
GFSK 100ksps 802.15.4gd7 (LR-WPANs)	Frequency Span	2 MHz
	RBW	10 kHz
	Detection	RMS
	SWP	Auto, Normal
	Trace Point	1001
	Adjacent Channel Power	On
	ACP Reference	Carrier-1
	Carrier Number	1
	Carrier BW	150 kHz
	Carrier Spacing	300 MHz
	In Band Center	Center Frequency
	In Band Filter Type	Rect
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	Off
	Offset Freq-1	300 kHz
	Offset Freq-2	600 kHz
	Ch BW	300 kHz
	Offset Ch Filter Type	Rect

Table D-1 Standard parameters for ACP function (Cont'd)

Standard	Parameter Name	Setting
GFSK 200ksps 802.15.4gd7 (LR-WPANs)	Frequency Span	3 MHz
	RBW	10 kHz
	Detection	RMS
	SWP	Auto, Normal
	Trace Point	1001
	Adjacent Channel Power	On
	ACP Reference	Carrier-1
	Carrier Number	1
	Carrier BW	300 kHz
	Carrier Spacing	600 MHz
	In Band Center	Center Frequency
	In Band Filter Type	Rect
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	Off
	Offset Freq-1	600 kHz
	Offset Freq-2	1.2 MHz
	Ch BW	600 kHz
	Offset Ch Filter Type	Rect

APCO

Table D-1 Standard parameters for ACP function (Cont'd)

Standard	Parameter Name	Setting
APCO P25 Except 700MHz-band	Frequency Span	100 kHz
	RBW	100 Hz
	Detection	RMS
	Storage Mode	Average
	Sweep Time Switch	Auto
	Auto Sweep Time Select	Normal
	Adjacent Channel Power	On
	ACP Reference	Carrier Select
	Carrier Number	1
	Carrier BW	12.5 kHz
	Carrier Spacing	12.5 kHz
	In Band Center	Center Frequency
	In Band Filter Type	Rect
	Offset – 1 On/Off	On
	Offset – 2 On/Off	Off
	Offset – 3 On/Off	Off
	Offset Freq – 1	12.5 kHz
	Offset Freq – 2	25 kHz
	Offset Freq – 3	15 MHz
	Ch BW	6 kHz
	Offset Ch Filter Type	Rect

Table D-1 Standard parameters for ACP function (Cont'd)

Standard	Parameter Name	Setting
APCO P25 700MHz-BW-6.25kHz	Frequency Span	100 kHz
	RBW	100 Hz
	Detection	RMS
	Storage Mode	Average
	Sweep Time Switch	Auto
	Auto Sweep Time Select	Normal
	Adjacent Channel Power	On
	ACP Reference	Both Sides of Carriers
	Carrier Number	1
	Carrier BW	12.5 kHz
	Carrier Spacing	12.5 kHz
	In Band Center	Center Frequency
	In Band Filter Type	Rect
	Offset – 1 On/Off	On
	Offset – 2 On/Off	On
	Offset – 3 On/Off	On
	Offset Freq – 1	9.375 kHz
	Offset Freq – 2	15.625 kHz
	Offset Freq – 3	21.875 MHz
	Ch BW	6.25 kHz
	Offset Ch Filter Type	Rect

Table D-1 Standard parameters for ACP function (Cont'd)

Standard	Parameter Name	Setting
APCO P25 700MHz-BW-25kHz	Frequency Span	250 kHz
	RBW	100 Hz
	Detection	RMS
	Storage Mode	Average
	Sweep Time Switch	Auto
	Auto Sweep Time Select	Normal
	Adjacent Channel Power	On
	ACP Reference	Both Sides of Carriers
	Carrier Number	1
	Carrier BW	12.5 kHz
	Carrier Spacing	12.5 kHz
	In Band Center	Center Frequency
	In Band Filter Type	Rect
	Offset – 1 On/Off	On
	Offset – 2 On/Off	On
	Offset – 3 On/Off	On
	Offset Freq – 1	37.5 kHz
	Offset Freq – 2	62.5 kHz
	Offset Freq – 3	87.5 MHz
	Ch BW	25 kHz
	Offset Ch Filter Type	Rect

Table D-1 Standard parameters for ACP function (Cont'd)

Standard	Parameter Name	Setting
APCO P25 700MHz-BW-100 kHz	Frequency Span	1 MHz
	RBW	100 Hz
	Detection	RMS
	Storage Mode	Average
	Sweep Time Switch	Auto
	Auto Sweep Time Select	Normal
	Adjacent Channel Power	On
	ACP Reference	Both Sides of Carriers
	Carrier Number	1
	Carrier BW	12.5 kHz
	Carrier Spacing	12.5 kHz
	In Band Center	Center Frequency
	In Band Filter Type	Rect
	Offset – 1 On/Off	On
	Offset – 2 On/Off	On
	Offset – 3 On/Off	On
	Offset Freq – 1	150 kHz
	Offset Freq – 2	250 kHz
	Offset Freq – 3	350 MHz
	Ch BW	100 kHz
	Offset Ch Filter Type	Rect

NXDN

Table D-1 Standard parameters for ACP function (Cont'd)

Standard	Parameter Name	Setting
NXDN BW-6.25kHz	Frequency Span	30 kHz
	RBW	100 Hz
	Detection	RMS
	Storage Mode	Average
	Sweep Time Switch	Auto
	Auto Sweep Time Select	Normal
	Adjacent Channel Power	On
	ACP Reference	Both Sides of Carriers
	Carrier Number	1
	Carrier BW	4 kHz
	Carrier Spacing	6.25 kHz
	In Band Center	Center Frequency
	In Band Filter Type	Rect
	Offset – 1 On/Off	On
	Offset – 2 On/Off	Off
	Offset – 3 On/Off	Off
	Offset Freq – 1	6.25 kHz
	Offset Freq – 2	12.5 kHz
	Offset Freq – 3	18.75 MHz
	Ch BW	4 kHz
	Offset Ch Filter Type	Rect

Table D-1 Standard parameters for ACP function (Cont'd)

Standard	Parameter Name	Setting
NXDN BW-12.5kHz	Frequency Span	70 kHz
	RBW	100 Hz
	Detection	RMS
	Storage Mode	Average
	Sweep Time Switch	Auto
	Auto Sweep Time Select	Normal
	Adjacent Channel Power	On
	ACP Reference	Carrier-1
	Carrier Number	1
	Carrier BW	8.3 kHz
	Carrier Spacing	12.5 kHz
	In Band Center	Center Frequency
	In Band Filter Type	Rect
	Offset – 1 On/Off	On
	Offset – 2 On/Off	Off
	Offset – 3 On/Off	Off
	Offset Freq – 1	12.5 kHz
	Offset Freq – 2	25 kHz
	Offset Freq – 3	37.5 MHz
	Ch BW	8.3 kHz
	Offset Ch Filter Type	Rect

D-2 Burst Average Power

W-CDMA/Mobile WiMAX/LTE/DSRC

Table D-2 Standard parameters for Burst Average Power

Standard	Parameter Name	Setting
W-CDMA Uplink/Downlink	RBW	20 MHz
	Detection	RMS
	SWP	10 ms
	Trace Point	1001
	Burst Average Power	On
Mobile WiMAX DL / UL 5ms Frame	RBW	20 MHz
	Detection	RMS
	SWP	5 ms
	Trace Point	1001
	Burst Average Power	On
LTE Uplink/Downlink Mean Power 1.4MHz BW	RBW	20 MHz
	Detection	RMS
	SWP	10 ms
	Trace Point	1001
	Burst Average Power	On
LTE Uplink/Downlink Mean Power 3MHz BW	RBW	20 MHz
	Detection	RMS
	SWP	10 ms
	Trace Point	1001
	Burst Average Power	On
LTE Uplink/Downlink Mean Power 5MHz BW	RBW	20 MHz
	Detection	RMS
	SWP	10 ms
	Trace Point	1001
	Burst Average Power	On
LTE Uplink/Downlink Mean Power 10MHz BW	RBW	20 MHz
	Detection	RMS
	SWP	10 ms
	Trace Point	1001
	Burst Average Power	On
DSRC π/4DQPSK	RBW	20 MHz
	Detection	RMS
	SWP	782 µs
	Trace Point	10001
	Burst Average Power	On

TD-SCDMA/LTE TDD/CDMA2000/EV-DO

Table D-2 Standard parameters for Burst Average Power (Cont'd)

Standard	Parameter Name	Setting
TD-SCDMA 5ms Subframe	RBW	20 MHz
	Detection	RMS
	SWP	5 ms
	Trace Point	1001
	Burst Average Power	On
LTE TDD Uplink/Downlink Mean Power 1.4MHz BW	RBW	20 MHz
	Detection	RMS
	SWP	10 ms
	Trace Point	1001
	Burst Average Power	On
LTE TDD Uplink/Downlink Mean Power 3MHz BW	RBW	20 MHz
	Detection	RMS
	SWP	10 ms
	Trace Point	1001
	Burst Average Power	On
LTE TDD Uplink/Downlink Mean Power 5MHz BW	RBW	20 MHz
	Detection	RMS
	SWP	10 ms
	Trace Point	1001
	Burst Average Power	On
LTE TDD Uplink/Downlink Mean Power 10MHz BW	RBW	20 MHz
	Detection	RMS
	SWP	10 ms
	Trace Point	1001
	Burst Average Power	On
CDMA2000 Forward Link	RBW	5 MHz
	Detection	RMS
	SWP	1.25 ms
	Trace Point	1001
	Burst Average Power	On
EV-DO Forward Link	RBW	5 MHz
	Detection	RMS
	SWP	1.667 ms
	Trace Point	1001
	Burst Average Power	On

D-3 Channel Power

W-CDMA

Table D-3 Standard parameters for Channel Power function

Standard	Parameter Name	Setting
W-CDMA Uplink/Downlink (Mean Power)	Frequency Span	10 MHz
	RBW	Auto
	Detection	RMS
	SWP	Auto, Normal
	Trace Point	1001
	Channel Power	On
	Channel Center	Center Frequency
	Channel Width	5 MHz
	Filter Type	Rect
W-CDMA Uplink/Downlink (RRC Filtered Power)	Frequency Span	10 MHz
	RBW	Auto
	Detection	RMS
	SWP	Auto, Normal
	Trace Point	1001
	Channel Power	On
	Channel Center	Center Frequency
	Channel Width	3.84 MHz
	Filter Type	Root Nyquist
	Filter Roll-off Factor	0.22

Mobile WiMAX

Table D-3 Standard parameters for Channel Power function (Cont'd)

Standard	Parameter Name	Setting
Mobile WiMAX DL / UL 10MHz BW	Frequency Span	20 MHz
	RBW	Auto
	Detection	RMS
	SWP	Auto, Normal
	Trace Point	1001
	Channel Power	On
	Channel Center	Center Frequency
	Channel Width	10 MHz
	Filter Type	Rect
Mobile WiMAX DL / UL 5MHz BW	Frequency Span	15 MHz
	RBW	Auto
	Detection	RMS
	SWP	Auto, Normal
	Trace Point	1001
	Channel Power	On
	Channel Center	Center Frequency
	Channel Width	5 MHz
	Filter Type	Rect

LTE

Table D-3 Standard parameters for Channel Power function (Cont'd)

Standard	Parameter Name	Setting
LTE Uplink/Downlink Mean Power 1.4MHz BW	Frequency Span	2.8 MHz
	RBW	Auto
	Detection	RMS
	SWP	Auto, Normal
	Trace Point	1001
	Channel Power	On
	Channel Center	Center Frequency
	Channel Width	1.4 MHz
	Filter Type	Rect
LTE Uplink/Downlink Mean Power 3MHz BW	Frequency Span	6 MHz
	RBW	Auto
	Detection	RMS
	SWP	Auto, Normal
	Trace Point	1001
	Channel Power	On
	Channel Center	Center Frequency
	Channel Width	3 MHz
	Filter Type	Rect
LTE Uplink/Downlink Mean Power 5MHz BW	Frequency Span	10 MHz
	RBW	Auto
	Detection	RMS
	SWP	Auto, Normal
	Trace Point	1001
	Channel Power	On
	Channel Center	Center Frequency
	Channel Width	5 MHz
	Filter Type	Rect

Table D-3 Standard parameters for Channel Power function (Cont'd)

Standard	Parameter Name	Setting
LTE Uplink/Downlink Mean Power 10MHz BW	Frequency Span	20 MHz
	RBW	Auto
	Detection	RMS
	SWP	Auto, Normal
	Trace Point	1001
	Channel Power	On
	Channel Center	Center Frequency
	Channel Width	10 MHz
	Filter Type	Rect
LTE Uplink/Downlink Mean Power 15MHz BW	Frequency Span	30 MHz
	RBW	Auto
	Detection	RMS
	SWP	Auto, Normal
	Trace Point	1001
	Channel Power	On
	Channel Center	Center Frequency
	Channel Width	15 MHz
	Filter Type	Rect
LTE Uplink/Downlink Mean Power 20MHz BW	Frequency Span	40 MHz
	RBW	Auto
	Detection	RMS
	SWP	Auto, Normal
	Trace Point	1001
	Channel Power	On
	Channel Center	Center Frequency
	Channel Width	20 MHz
	Filter Type	Rect

Table D-3 Standard parameters for Channel Power function (Cont'd)

Standard	Parameter Name	Setting
LTE Uplink/Downlink Filtered Power 1.4MHz BW	Frequency Span	2.8 MHz
	RBW	Auto
	Detection	RMS
	SWP	Auto, Normal
	Trace Point	1001
	Channel Power	On
	Channel Center	Center Frequency
	Channel Width	1.095 MHz (DL) 1.08 MHz (UL)
	Filter Type	Rect
LTE Uplink/Downlink Filtered Power 3MHz BW	Frequency Span	6 MHz
	RBW	Auto
	Detection	RMS
	SWP	Auto, Normal
	Trace Point	1001
	Channel Power	On
	Channel Center	Center Frequency
	Channel Width	2.715 MHz (DL) 2.7 MHz (UL)
	Filter Type	Rect
LTE Uplink/Downlink Filtered Power 5MHz BW	Frequency Span	10 MHz
	RBW	Auto
	Detection	RMS
	SWP	Auto, Normal
	Trace Point	1001
	Channel Power	On
	Channel Center	Center Frequency
	Channel Width	4.515 MHz (DL) 4.5 MHz (UL)
	Filter Type	Rect

Table D-3 Standard parameters for Channel Power function (Cont'd)

Standard	Parameter Name	Setting
LTE Uplink/Downlink Filtered Power 10MHz BW	Frequency Span	20 MHz
	RBW	Auto
	Detection	RMS
	SWP	Auto, Normal
	Trace Point	1001
	Channel Power	On
	Channel Center	Center Frequency
	Channel Width	9.015 MHz (DL) 9 MHz (UL)
	Filter Type	Rect
LTE Uplink/Downlink Filtered Power 15MHz BW	Frequency Span	30 MHz
	RBW	Auto
	Detection	RMS
	SWP	Auto, Normal
	Trace Point	1001
	Channel Power	On
	Channel Center	Center Frequency
	Channel Width	13.515 MHz (DL) 13.5 MHz (UL)
	Filter Type	Rect
LTE Uplink/Downlink Filtered Power 20MHz BW	Frequency Span	40 MHz
	RBW	Auto
	Detection	RMS
	SWP	Auto, Normal
	Trace Point	1001
	Channel Power	On
	Channel Center	Center Frequency
	Channel Width	18.015 MHz (DL) 18 MHz (UL)
	Filter Type	Rect

LTE TDD

Table D-3 Standard parameters for Channel Power function (Cont'd)

Standard	Parameter Name	Setting
LTE TDD Uplink/Downlink Mean Power 1.4MHz BW	Frequency Span	2.8 MHz
	RBW	Auto
	Detection	RMS
	SWP	Auto, Normal
	Trace Point	1001
	Channel Power	On
	Channel Center	Center Frequency
	Channel Width	1.4 MHz
	Filter Type	Rect
LTE TDD Uplink/Downlink Mean Power 3MHz BW	Frequency Span	6 MHz
	RBW	Auto
	Detection	RMS
	SWP	Auto, Normal
	Trace Point	1001
	Channel Power	On
	Channel Center	Center Frequency
	Channel Width	3 MHz
	Filter Type	Rect
LTE TDD Uplink/Downlink Mean Power 5MHz BW	Frequency Span	10 MHz
	RBW	Auto
	Detection	RMS
	SWP	Auto, Normal
	Trace Point	1001
	Channel Power	On
	Channel Center	Center Frequency
	Channel Width	5 MHz
	Filter Type	Rect

Table D-3 Standard parameters for Channel Power function (Cont'd)

Standard	Parameter Name	Setting
LTE TDD Uplink/Downlink Mean Power 10MHz BW	Frequency Span	20 MHz
	RBW	Auto
	Detection	RMS
	SWP	Auto, Normal
	Trace Point	1001
	Channel Power	On
	Channel Center	Center Frequency
	Channel Width	10 MHz
	Filter Type	Rect
LTE TDD Uplink/Downlink Mean Power 15MHz BW	Frequency Span	30 MHz
	RBW	Auto
	Detection	RMS
	SWP	Auto, Normal
	Trace Point	1001
	Channel Power	On
	Channel Center	Center Frequency
	Channel Width	15 MHz
	Filter Type	Rect
LTE TDD Uplink/Downlink Mean Power 20MHz BW	Frequency Span	40 MHz
	RBW	Auto
	Detection	RMS
	SWP	Auto, Normal
	Trace Point	1001
	Channel Power	On
	Channel Center	Center Frequency
	Channel Width	20 MHz
	Filter Type	Rect

Table D-3 Standard parameters for Channel Power function (Cont'd)

Standard	Parameter Name	Setting
LTE TDD Uplink/Downlink Filtered Power 1.4MHz BW	Frequency Span	2.8 MHz
	RBW	Auto
	Detection	RMS
	SWP	Auto, Normal
	Trace Point	1001
	Channel Power	On
	Channel Center	Center Frequency
	Channel Width	1.095 MHz (DL) 1.08 MHz (UL)
	Filter Type	Rect
LTE TDD Uplink/Downlink Filtered Power 3MHz BW	Frequency Span	6 MHz
	RBW	Auto
	Detection	RMS
	SWP	Auto, Normal
	Trace Point	1001
	Channel Power	On
	Channel Center	Center Frequency
	Channel Width	2.715 MHz (DL) 2.7 MHz (UL)
	Filter Type	Rect
LTE TDD Uplink/Downlink Filtered Power 5MHz BW	Frequency Span	10 MHz
	RBW	Auto
	Detection	RMS
	SWP	Auto, Normal
	Trace Point	1001
	Channel Power	On
	Channel Center	Center Frequency
	Channel Width	4.515 MHz (DL) 4.5 MHz (UL)
	Filter Type	Rect

Table D-3 Standard parameters for Channel Power function (Cont'd)

Standard	Parameter Name	Setting
LTE TDD Uplink/Downlink Filtered Power 10MHz BW	Frequency Span	20 MHz
	RBW	Auto
	Detection	RMS
	SWP	Auto, Normal
	Trace Point	1001
	Channel Power	On
	Channel Center	Center Frequency
	Channel Width	9.015 MHz (DL) 9 MHz (UL)
	Filter Type	Rect
LTE TDD Uplink/Downlink Filtered Power 15MHz BW	Frequency Span	30 MHz
	RBW	Auto
	Detection	RMS
	SWP	Auto, Normal
	Trace Point	1001
	Channel Power	On
	Channel Center	Center Frequency
	Channel Width	13.515 MHz (DL) 13.5 MHz (UL)
	Filter Type	Rect
LTE TDD Uplink/Downlink Filtered Power 20MHz BW	Frequency Span	40 MHz
	RBW	Auto
	Detection	RMS
	SWP	Auto, Normal
	Trace Point	1001
	Channel Power	On
	Channel Center	Center Frequency
	Channel Width	18.015 MHz (DL) 18 MHz (UL)
	Filter Type	Rect

DSRC

Table D-3 Standard parameters for Channel Power function (Cont'd)

Standard	Parameter Name	Setting
DSRC π/4DQPSK	Frequency Span	10 MHz
	RBW	Auto
	Detection	RMS
	Sweep Time Switch	Manual
	Sweep Time Freq. Domain	7.1 s
	Auto Sweep Time Select	Normal
	Trace Point	1001
	Channel Power	On
	Channel Center	Center Frequency
	Channel Width	4.4 MHz
	Filter Type	Rect
DSRC ASK	Frequency Span	10 MHz
	RBW	Auto
	Detection	Positive
	Sweep Time Switch	Manual
	Sweep Time Freq. Domain	7.1 s
	Auto Sweep Time Select	Normal
	Trace Point	1001
	Channel Power	On
	Channel Center	Center Frequency
	Channel Width	4.4 MHz
	Filter Type	Rect

TD-SCDMA/XG-PHS/CDMA2000/EV-DO

Table D-3 Standard parameters for Channel Power function (Cont'd)

Standard	Parameter Name	Setting
TD-SCDMA	Frequency Span	2 MHz
	RBW	Auto
	Detection	RMS
	Gate Length	662.5 µs
	Sweep Time Switch	Manual
	Sweep Time Freq. Domain	676 ms
	Auto Sweep Time Select	Normal
	Trace Point	1001
	Channel Power	On
	Channel Center	Center Frequency
	Channel Width	1.6 MHz
	Filter Type	Rect
XG-PHS Mean Power 10MHz BW	Frequency Span	20 MHz
	RBW	Auto
	Detection	RMS
	Gate Sweep	Off
	Sweep Time Switch	Manual
	Sweep Time Freq. Domain	5000 ms
	Trace Point	1001
	Channel Power	On
	Channel Center	Center Frequency
	Channel Width	10 MHz
	Filter Type	Rect

Table D-3 Standard parameters for Channel Power function (Cont'd)

Standard	Parameter Name	Setting
XG-PHS Mean Power 20MHz BW	Frequency Span	40 MHz
	RBW	Auto
	Detection	RMS
	Gate Sweep	Off
	Sweep Time Switch	Manual
	Sweep Time Freq. Domain	5000 ms
	Trace Point	1001
	Channel Power	On
	Channel Center	Center Frequency
	Channel Width	20 MHz
	Filter Type	Rect
CDMA2000 Forward Link	Frequency Span	2.5 MHz
	RBW	Auto
	Detection	RMS
	Sweep Time Switch	Manual
	Sweep Time Freq. Domain	1.25 s
	Auto Sweep Time Select	Normal
	Trace Point	1001
	Channel Power	On
	Channel Center	Center Frequency
	Channel Width	1.23 MHz
	Filter Type	Rect
EV-DO Forward Link	Frequency Span	2.5 MHz
	RBW	Auto
	Detection	RMS
	Sweep Time Switch	Manual
	Sweep Time Freq. Domain	1.667 s
	Auto Sweep Time Select	Normal
	Trace Point	1001
	Channel Power	On
	Channel Center	Center Frequency
	Channel Width	1.23 MHz
	Filter Type	Rect

ISDB-Tmm/ISDB-T

Table D-3 Standard parameters for Channel Power function (Cont'd)

Standard	Parameter Name	Setting
ISDB-Tmm 14.2MHz BW (Mean Power)	Frequency Span	20 MHz
	RBW	Auto
	Detection	RMS
	SWP	Auto, Normal
	Trace Point	1001
	Channel Power	On
	Channel Center	Center Frequency
	Channel Width	14.2 MHz
	Filter Type	Rect
ISDB-Tmm (ISDB-T) 5.6MHz BW (Mean Power)	Frequency Span	10 MHz
	RBW	Auto
	Detection	RMS
	SWP	Auto, Normal
	Trace Point	1001
	Channel Power	On
	Channel Center	Center Frequency
	Channel Width	5.6 MHz
	Filter Type	Rect
ISDB-T 5.6MHz BW (Mean Power)	Frequency Span	10 MHz
	RBW	Auto
	Detection	RMS
	SWP	Auto, Normal
	Trace Point	1001
	Channel Power	On
	Channel Center	Center Frequency
	Channel Width	5.6 MHz
	Filter Type	Rect

ISDB-T_{SB}

Table D-3 Standard parameters for Channel Power function (Cont'd)

Standard	Parameter Name	Setting
ISDB-T_{SB} 3.9MHz BW (Mean Power)	Frequency Span	20 MHz
	RBW	Auto
	Detection	RMS
	SWP	Auto, Normal
	Trace Point	1001
	Channel Power	On
	Channel Center	Center Frequency
	Channel Width	3.9 MHz
	Filter Type	Rect

D-4 OBW

W-CDMA/Mobile WiMAX

Table D-4 Standard parameters for OBW function

Standard	Parameter Name	Setting
W-CDMA Uplink/Downlink	Method	N% of Power
	N% Ratio	99.00%
	Frequency Span	10 MHz
	RBW	30 kHz
	Detection	RMS
	SWP	Auto, Normal
	OBW	On
	Trace Point	1001
Mobile WiMAX DL / UL 10MHz BW	Method	N% of Power
	N% Ratio	99.00%
	Frequency Span	30 MHz
	RBW	100 kHz
	Detection	Positive
	SWP	Auto, Fast
	OBW	On
	Trace Point	1001
Mobile WiMAX DL / UL 5MHz BW	Method	N% of Power
	N% Ratio	99.00%
	Frequency Span	15 MHz
	RBW	100 kHz
	Detection	Positive
	SWP	Auto, Fast
	OBW	On
	Trace Point	1001

LTE

Table D-4 Standard parameters for OBW function (Cont'd)

Standard	Parameter Name	Setting
LTE Uplink/Downlink 1.4MHz Bandwidth	Method	N% of Power
	N% Ratio	99.00%
	Frequency Span	2.8 MHz
	RBW	10 kHz
	Detection	RMS
	SWP	Auto, Normal
	OBW	On
	Trace Point	1001
LTE Uplink/Downlink 3MHz Bandwidth	Method	N% of Power
	N% Ratio	99.00%
	Frequency Span	6 MHz
	RBW	30 kHz
	Detection	RMS
	SWP	Auto, Normal
	OBW	On
	Trace Point	1001
LTE Uplink/Downlink 5MHz Bandwidth	Method	N% of Power
	N% Ratio	99.00%
	Frequency Span	10 MHz
	RBW	30 kHz
	Detection	RMS
	SWP	Auto, Normal
	OBW	On
	Trace Point	1001

Table D-4 Standard parameters for OBW function (Cont'd)

Standard	Parameter Name	Setting
LTE Uplink/Downlink 10MHz Bandwidth	Method	N% of Power
	N% Ratio	99.00%
	Frequency Span	20 MHz
	RBW	100 kHz
	Detection	RMS
	SWP	Auto, Normal
	OBW	On
	Trace Point	1001
LTE Uplink/Downlink 15MHz Bandwidth	Method	N% of Power
	N% Ratio	99.00%
	Frequency Span	30 MHz
	RBW	100 kHz
	Detection	RMS
	SWP	Auto, Normal
	OBW	On
	Trace Point	1001
LTE Uplink/Downlink 20MHz Bandwidth	Method	N% of Power
	N% Ratio	99.00%
	Frequency Span	40 MHz
	RBW	100 kHz
	Detection	RMS
	SWP	Auto, Normal
	OBW	On
	Trace Point	1001

LTE TDD

Table D-4 Standard parameters for OBW function (Cont'd)

Standard	Parameter Name	Setting
LTE TDD Uplink/Downlink 1.4MHz Bandwidth	Method	N% of Power
	N% Ratio	99.00%
	Frequency Span	2.8 MHz
	RBW	10 kHz
	Detection	RMS
	SWP	Auto, Normal
	OBW	On
	Trace Point	401 (DL) 1001 (UL)
LTE TDD Uplink/Downlink 3MHz Bandwidth	Method	N% of Power
	N% Ratio	99.00%
	Frequency Span	6 MHz
	RBW	30 kHz
	Detection	RMS
	SWP	Auto, Normal
	OBW	On
	Trace Point	401 (DL) 1001 (UL)
LTE TDD Uplink/Downlink 5MHz Bandwidth	Method	N% of Power
	N% Ratio	99.00%
	Frequency Span	10 MHz
	RBW	30 kHz
	Detection	RMS
	SWP	Auto, Normal
	OBW	On
	Trace Point	1001

Table D-4 Standard parameters for OBW function (Cont'd)

Standard	Parameter Name	Setting
LTE TDD Uplink/Downlink 10MHz Bandwidth	Method	N% of Power
	N% Ratio	99.00%
	Frequency Span	20 MHz
	RBW	100 kHz
	Detection	RMS
	SWP	Auto, Normal
	OBW	On
	Trace Point	1001
LTE TDD Uplink/Downlink 15MHz Bandwidth	Method	N% of Power
	N% Ratio	99.00%
	Frequency Span	30 MHz
	RBW	100 kHz
	Detection	RMS
	SWP	Auto, Normal
	OBW	On
	Trace Point	1001
LTE TDD Uplink/Downlink 20MHz Bandwidth	Method	N% of Power
	N% Ratio	99.00%
	Frequency Span	40 MHz
	RBW	100 kHz
	Detection	RMS
	SWP	Auto, Normal
	OBW	On
	Trace Point	1001

DSRC

Table D-4 Standard parameters for OBW function (Cont'd)

Standard	Parameter Name	Setting
DSRC π/4DQPSK	Method	N% of Power
	N% Ratio	99.00%
	Frequency Span	10 MHz
	RBW	30 kHz
	VBW	30 kHz
	VBW Mode	Power
	Detection	Positive
	Sweep Time Switch	Manual
	Sweep Time Freq. Domain	7.1 s
	Auto Sweep Time Select	Normal
	OBW	On
	Trace Point	1001
DSRC ASK	Method	N% of Power
	N% Ratio	99.00%
	Frequency Span	10 MHz
	RBW	30 kHz
	VBW	30 kHz
	VBW Mode	Power
	Detection	Positive
	Sweep Time Switch	Manual
	Sweep Time Freq. Domain	7.1 s
	Auto Sweep Time Select	Normal
	OBW	On
	Trace Point	1001

TD-SCDMA/XG-PHS/CDMA2000/EV-DO

Table D-4 Standard parameters for OBW function (Cont'd)

Standard	Parameter Name	Setting
TD-SCDMA	Method	N% of Power
	N% Ratio	99.00%
	Frequency Span	5 MHz
	RBW	30 kHz
	Detection	RMS
	Sweep Time Switch	Manual
	Sweep Time Freq. Domain	676 ms
	Auto Sweep Time Select	Normal
	OBW	On
	Trace Point	1001
XG-PHS 10MHz Bandwidth	Method	N% of Power
	N% Ratio	99.00%
	Frequency Span	20 MHz
	RBW	100 kHz
	VBW	300 kHz
	Storage Mode	Max Hold
	Storage Count	10
	Detection	Positive
	Sweep Time Switch	Manual
	Sweep Time Freq. Domain	5000 ms
	Auto Sweep Time Select	Normal
	OBW	On
	Trace Point	1001

Table D-4 Standard parameters for OBW function (Cont'd)

Standard	Parameter Name	Setting
XG-PHS 20MHz Bandwidth	Method	N% of Power
	N% Ratio	99.00%
	Frequency Span	40 MHz
	RBW	100 kHz
	VBW	300 kHz
	Storage Mode	Max Hold
	Storage Count	10
	Detection	Positive
	Sweep Time Switch	Manual
	Sweep Time Freq. Domain	5000 ms
	Auto Sweep Time Select	Normal
	OBW	On
	Trace Point	1001
CDMA2000 Forward Link	Method	N% of Power
	N% Ratio	99.00%
	Frequency Span	4 MHz
	RBW	30 kHz
	Detection	Positive
	Sweep Time Switch	Manual
	Sweep Time Freq. Domain	1.25 s
	Auto Sweep Time Select	Normal
	OBW	On
	Trace Point	1001
EV-DO Forward Link	Method	N% of Power
	N% Ratio	99.00%
	Frequency Span	4 MHz
	RBW	30 kHz
	Detection	Positive
	Sweep Time Switch	Manual
	Sweep Time Freq. Domain	1.667 s
	Auto Sweep Time Select	Normal
	OBW	On
	Trace Point	1001

ISDB-Tmm/ISDB-T/ISDB-T_{SB}

Table D-4 Standard parameters for OBW function (Cont'd)

Standard	Parameter Name	Setting
ISDB-Tmm 14.2MHz BW	Method	N% of Power
	N% Ratio	99.00%
	Frequency Span	20 MHz
	RBW	10 kHz
	Detection	RMS
	SWP	Auto, Normal
	OBW	On
	Trace Point	1001
ISDB-Tmm (ISDB-T) 5.6MHz BW	Method	N% of Power
	N% Ratio	99.00%
	Frequency Span	20 MHz
	RBW	10 kHz
	VBW	300 Hz
	Detection	Positive
	SWP	Auto, Normal
	OBW	On
	Trace Point	1001
ISDB-T 5.6MHz BW	Method	N% of Power
	N% Ratio	99.00%
	Frequency Span	20 MHz
	RBW	10 kHz
	VBW	300 Hz
	Detection	Positive
	SWP	Auto, Normal
	OBW	On
	Trace Point	1001
ISDB-T_{SB} 3.9MHz BW	Method	N% of Power
	N% Ratio	99.00%
	Frequency Span	20 MHz
	RBW	10 kHz
	Detection	Positive
	SWP	Auto, Normal
	OBW	On
	Trace Point	1001

TELEC-T401/TELEC-T403

Table D-4 Standard parameters for OBW function (Cont'd)

Standard	Parameter Name	Setting
TELEC-T401 DSSS/CCK (WLAN)	Method	N% of Power
	N% Ratio	99.00%
	Frequency Span	60 MHz
	RBW	300 kHz
	VBW	300 kHz
	Detection	Positive
	SWP	Auto, Normal
	OBW	On
	Trace Point	1001
TELEC-T401 OFDM (WLAN)	Method	N% of Power
	N% Ratio	99.00%
	Frequency Span	80 MHz
	RBW	300 kHz
	VBW	300 kHz
	Detection	Positive
	SWP	Auto, Normal
	OBW	On
	Trace Point	1001
TELEC-T403 20MHz (WLAN)	Method	N% of Power
	N% Ratio	99.00%
	Frequency Span	60 MHz
	RBW	300 kHz
	VBW	300 kHz
	Detection	Positive
	SWP	Auto, Normal
	OBW	On
	Trace Point	1001

Table D-4 Standard parameters for OBW function (Cont'd)

Standard	Parameter Name	Setting
TELEC-T403 40MHz (WLAN)	Method	N% of Power
	N% Ratio	99.00%
	Frequency Span	80 MHz
	RBW	300 kHz
	VBW	300 kHz
	Detection	Positive
	SWP	Auto, Normal
	OBW	On
	Trace Point	1001
TELEC-T403 80MHz (WLAN)	Method	N% of Power
	N% Ratio	99.00%
	Frequency Span	160 MHz
	RBW	300 kHz
	VBW	300 kHz
	Detection	Positive
	SWP	Auto, Normal
	OBW	On
	Trace Point	1001
TELEC-T403 160MHz (WLAN)	Method	N% of Power
	N% Ratio	99.00%
	Frequency Span	320 MHz
	RBW	300 kHz
	VBW	300 kHz
	Detection	Positive
	SWP	Auto, Normal
	OBW	On
	Trace Point	1001

TELEC-T405

Table D-4 Standard parameters for OBW function (Cont'd)

Standard	Parameter Name	Setting
TELEC-T405 20MHz (WLAN)	Method	N% of Power
	N% Ratio	99.00%
	Frequency Span	60 MHz
	RBW	30 kHz
	VBW	30 kHz
	Detection	Positive
	SWP	Auto, Normal
	OBW	On
	Trace Point	1001
TELEC-T405 40MHz (WLAN)	Method	N% of Power
	N% Ratio	99.00%
	Frequency Span	80 MHz
	RBW	30 kHz
	VBW	30 kHz
	Detection	Positive
	SWP	Auto, Normal
	OBW	On
	Trace Point	1001

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Table D-4 Standard parameters for OBW function (Cont'd)

Standard	Parameter Name	Setting
ETSI EN 301 893 V1.5.1 OFDM 5MHZ (WLAN)	Method	xdB Down
	XdB Value	6dB
	Frequency Span	10 MHz
	RBW	100 kHz
	VBW	100 kHz
	Detection	Positive
	SWP	Auto, Normal
	OBW	On
	Trace Point	1001
ETSI EN 301 893 V1.5.1 OFDM 10MHZ (WLAN)	Method	xdB Down
	XdB Value	6dB
	Frequency Span	20 MHz
	RBW	100 kHz
	VBW	100 kHz
	Detection	Positive
	SWP	Auto, Normal
	OBW	On
	Trace Point	1001
ETSI EN 301 893 V1.5.1 OFDM 20MHZ (WLAN)	Method	xdB Down
	XdB Value	6dB
	Frequency Span	40 MHz
	RBW	100 kHz
	VBW	100 kHz
	Detection	Positive
	SWP	Auto, Normal
	OBW	On
	Trace Point	1001

Table D-4 Standard parameters for OBW function (Cont'd)

Standard	Parameter Name	Setting
ETSI EN 301 893 V1.5.1 OFDM 40MHZ (WLAN)	Method	xdB Down
	XdB Value	6dB
	Frequency Span	80 MHz
	RBW	100 kHz
	VBW	100 kHz
	Detection	Positive
	SWP	Auto, Normal
	OBW	On
	Trace Point	1001
ETSI EN 301 893 V1.5.1 OFDM 80MHZ (WLAN)	Method	N% of Power
	N% Ratio	99.00%
	Frequency Span	160 MHz
	RBW	100 kHz
	VBW	300 kHz
	Detection	Positive
	SWP	Auto, Normal
	OBW	On
	Trace Point	10001
ETSI EN 301 893 V1.5.1 OFDM 160MHZ (WLAN)	Method	N% of Power
	XdB Value	99.00%
	Frequency Span	320 MHz
	RBW	100 kHz
	VBW	300 kHz
	Detection	Positive
	SWP	Auto, Normal
	OBW	On
	Trace Point	10001

D-5 SEM

W-CDMA

Table D-5 Standard parameters for Spectrum Emission Mask

Standard	Parameter Name	Setting
W-CDMA Uplink	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Channel
	Channel BW	3.84 MHz
	RBW	30 kHz
	Sweep Time	Auto
	Auto Sweep Time Select	Normal
	Detection	RMS
	Trace Point	1001
	Filter Type	Root Nyquist
	Roll-off Factor	0.22
	Offset-1 Start Freq	2.515 MHz
	Offset-2 Start Freq	4 MHz
	Offset-3 Start Freq	7.5 MHz
	Offset-4 Start Freq	8.5 MHz
	Offset-1 Stop Freq	3.485 MHz
	Offset-2 Stop Freq	7.5 MHz
	Offset-3 Stop Freq	8.5 MHz
	Offset-4 Stop Freq	12 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-3 Reference Level	Auto
	Offset-4 Reference Level	Auto
	Offset-1 RBW	30 kHz
	Offset-2 RBW	100 kHz
	Offset-3 RBW	1 MHz
	Offset-4 RBW	1 MHz

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
W-CDMA Uplink	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-3 Sweep Time	Auto
	Offset-4 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Normal
	Offset-2 Auto Sweep Time Select	Normal
	Offset-3 Auto Sweep Time Select	Normal
	Offset-4 Auto Sweep Time Select	Normal
	Offset-1 Detection	RMS
	Offset-2 Detection	RMS
	Offset-3 Detection	RMS
	Offset-4 Detection	RMS
	Offset-1 Trace Point	1001
	Offset-2 Trace Point	10001
	Offset-3 Trace Point	1001
	Offset-4 Trace Point	1001
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	1 MHz
	Offset-3 Integrate BW	Auto
	Offset-4 Integrate BW	Auto

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
W-CDMA Uplink	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	On
	Offset-5 On/Off	Off
	Offset-6 On/Off	Off
	Limit-1 ABS1 Start Level	–69.6 dBm
	Limit-2 ABS1 Start Level	–54.3 dBm
	Limit-3 ABS1 Start Level	–54.3 dBm
	Limit-4 ABS1 Start Level	–54.3 dBm
	Limit-1 ABS1 Stop Level	–69.6 dBm
	Limit-2 ABS1 Stop Level	–54.3 dBm
	Limit-3 ABS1 Stop Level	–54.3 dBm
	Limit-4 ABS1 Stop Level	–54.3 dBm
	Limit-1 ABS2 Start Level	–15 dBm
	Limit-2 ABS2 Start Level	–13 dBm
	Limit-3 ABS2 Start Level	–13 dBm
	Limit-4 ABS2 Start Level	–13 dBm
	Limit-1 ABS2 Stop Level	–15 dBm
	Limit-2 ABS2 Stop Level	–13 dBm
	Limit-3 ABS2 Stop Level	–13 dBm
	Limit-4 ABS2 Stop Level	–13 dBm
	Limit-1 REL Start Level	–33.73 dB
	Limit-2 REL Start Level	–34 dB
	Limit-3 REL Start Level	–37.5 dB
	Limit-4 REL Start Level	–47.5 dB
	Limit-1 REL Stop Level	–48.28 dB
	Limit-2 REL Stop Level	–37.5 dB
	Limit-3 REL Stop Level	–47.5 dB
	Limit-4 REL Stop Level	–47.5 dB
	Limit-1 Fail Logic	ABS1 or REL
	Limit-2 Fail Logic	ABS1 or REL
	Limit-3 Fail Logic	ABS1 or REL
	Limit-4 Fail Logic	ABS1 or REL
	Limit-5 Fail Logic	Off
	Limit-6 Fail Logic	Off

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
W-CDMA Uplink (Additional)	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Channel
	Channel BW	3.84 MHz
	RBW	30 kHz
	Sweep Time	Auto
	Auto Sweep Time Select	Normal
	Detection	RMS
	Trace Point	1001
	Filter Type	Root Nyquist
	Roll-off Factor	0.22
	Offset-1 Start Freq	2.515 MHz
	Offset-2 Start Freq	4 MHz
	Offset-3 Start Freq	7.5 MHz
	Offset-4 Start Freq	8.5 MHz
	Offset-1 Stop Freq	3.485 MHz
	Offset-2 Stop Freq	7.5 MHz
	Offset-3 Stop Freq	8.5 MHz
	Offset-6 Stop Freq	12 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-3 Reference Level	Auto
	Offset-4 Reference Level	Auto
	Offset-1 RBW	30 kHz
	Offset-2 RBW	100 kHz
	Offset-3 RBW	1 MHz
	Offset-4 RBW	1 MHz
	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-3 Sweep Time	Auto
	Offset-4 Sweep Time	Auto

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
W-CDMA Uplink (Additional)	Offset-1 Auto Sweep Time Select	Normal
	Offset-2 Auto Sweep Time Select	Normal
	Offset-3 Auto Sweep Time Select	Normal
	Offset-4 Auto Sweep Time Select	Normal
	Offset-1 Detection	RMS
	Offset-2 Detection	RMS
	Offset-3 Detection	RMS
	Offset-4 Detection	RMS
	Offset-1 Trace Point	1001
	Offset-2 Trace Point	10001
	Offset-3 Trace Point	1001
	Offset-4 Trace Point	1001
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	1 MHz
	Offset-3 Integrate BW	Auto
	Offset-4 Integrate BW	Auto
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	On
	Offset-5 On/Off	Off
	Offset-6 On/Off	Off
	Limit-1 ABS1 Start Level	–69.6 dBm
	Limit-2 ABS1 Start Level	–54.3 dBm
	Limit-3 ABS1 Start Level	–54.3 dBm
	Limit-4 ABS1 Start Level	–54.3 dBm
	Limit-1 ABS1 Stop Level	–69.6 dBm
	Limit-2 ABS1 Stop Level	–54.3 dBm
	Limit-3 ABS1 Stop Level	–54.3 dBm
	Limit-4 ABS1 Stop Level	–54.3 dBm
	Limit-1 ABS2 Start Level	–15 dBm
	Limit-2 ABS2 Start Level	–13 dBm
	Limit-3 ABS2 Start Level	–13 dBm
	Limit-4 ABS2 Start Level	–13 dBm

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
W-CDMA Uplink (Additional)	Limit-1 ABS2 Stop Level	–15 dBm
	Limit-2 ABS2 Stop Level	–13 dBm
	Limit-3 ABS2 Stop Level	–13 dBm
	Limit-4 ABS2 Stop Level	–13 dBm
	Limit-1 REL Start Level	–33.73 dB
	Limit-2 REL Start Level	–34 dB
	Limit-3 REL Start Level	–37.5 dB
	Limit-4 REL Start Level	–47.5 dB
	Limit-1 REL Stop Level	–48.28 dB
	Limit-2 REL Stop Level	–37.5 dB
	Limit-3 REL Stop Level	–47.5 dB
	Limit-4 REL Stop Level	–47.5 dB
	Limit-1 Fail Logic	(ABS1 or REL) and ABS2
	Limit-2 Fail Logic	(ABS1 or REL) and ABS2
	Limit-3 Fail Logic	(ABS1 or REL) and ABS2
	Limit-4 Fail Logic	(ABS1 or REL) and ABS2
	Limit-5 Fail Logic	Off
	Limit-6 Fail Logic	Off

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
W-CDMA Downlink (P ≥ 43dBm)	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Channel
	Channel BW	5 MHz
	RBW	30 kHz
	Sweep Time	Auto
	Auto Sweep Time Select	Normal
	Detection	RMS
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	2.515 MHz
	Offset-2 Start Freq	2.715 MHz
	Offset-3 Start Freq	3.515 MHz
	Offset-4 Start Freq	4.0 MHz
	Offset-5 Start Freq	8.0 MHz
	Offset-1 Stop Freq	2.715 MHz
	Offset-2 Stop Freq	3.515 MHz
	Offset-3 Stop Freq	4.0 MHz
	Offset-4 Stop Freq	8.0 MHz
	Offset-5 Stop Freq	12.5 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-3 Reference Level	Auto
	Offset-4 Reference Level	Auto
	Offset-5 Reference Level	Auto
	Offset-1 RBW	30 kHz
	Offset-2 RBW	30 kHz
	Offset-3 RBW	30 kHz
	Offset-4 RBW	100 kHz
	Offset-5 RBW	1 MHz

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
W-CDMA Downlink (P ≥ 43dBm)	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-3 Sweep Time	Auto
	Offset-4 Sweep Time	Auto
	Offset-5 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Normal
	Offset-2 Auto Sweep Time Select	Normal
	Offset-3 Auto Sweep Time Select	Normal
	Offset-4 Auto Sweep Time Select	Normal
	Offset-5 Auto Sweep Time Select	Normal
	Offset-1 Detection	RMS
	Offset-2 Detection	RMS
	Offset-3 Detection	RMS
	Offset-4 Detection	RMS
	Offset-5 Detection	RMS
	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-3 Trace Point	1001
	Offset-4 Trace Point	10001
	Offset-5 Trace Point	1001
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto
	Offset-3 Integrate BW	Auto
	Offset-4 Integrate BW	1 MHz
	Offset-5 Integrate BW	Auto

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
W-CDMA Downlink (P ≥ 43dBm)	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	On
	Offset-5 On/Off	On
	Offset-6 On/Off	Off
	Limit-1 ABS1 Start Level	–12.5 dBm
	Limit-2 ABS1 Start Level	–12.5 dBm
	Limit-3 ABS1 Start Level	–24.5 dBm
	Limit-4 ABS1 Start Level	–11.5 dBm
	Limit-5 ABS1 Start Level	–11.5 dBm
	Limit-1 ABS1 Stop Level	–12.5 dBm
	Limit-2 ABS1 Stop Level	–24.5 dBm
	Limit-3 ABS1 Stop Level	–24.5 dBm
	Limit-4 ABS1 Stop Level	–11.5 dBm
	Limit-5 ABS1 Stop Level	–11.5 dBm
	Limit-1 ABS2 Start Level	–15 dBm
	Limit-2 ABS2 Start Level	–15 dBm
	Limit-4 ABS2 Start Level	–13 dBm
	Limit-5 ABS2 Start Level	–13 dBm
	Limit-1 ABS2 Stop Level	–15 dBm
	Limit-2 ABS2 Stop Level	–15 dBm
	Limit-4 ABS2 Stop Level	–13 dBm
	Limit-5 ABS2 Stop Level	–13 dBm
	Limit-1 Fail Logic	ABS1
	Limit-2 Fail Logic	ABS1
	Limit-3 Fail Logic	ABS1
	Limit-4 Fail Logic	ABS1
	Limit-5 Fail Logic	ABS1
	Limit-6 Fail Logic	Off

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
W-CDMA Downlink (P ≥ 43dBm) (Additional)	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Channel
	Channel BW	5 MHz
	RBW	30 kHz
	Sweep Time	Auto
	Auto Sweep Time Select	Normal
	Detection	RMS
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	2.515 MHz
	Offset-2 Start Freq	2.715 MHz
	Offset-3 Start Freq	3.515 MHz
	Offset-4 Start Freq	4.0 MHz
	Offset-5 Start Freq	8.0 MHz
	Offset-1 Stop Freq	2.715 MHz
	Offset-2 Stop Freq	3.515 MHz
	Offset-3 Stop Freq	4.0 MHz
	Offset-4 Stop Freq	8.0 MHz
	Offset-5 Stop Freq	12.5 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-3 Reference Level	Auto
	Offset-4 Reference Level	Auto
	Offset-5 Reference Level	Auto

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
W-CDMA Downlink (P ≥ 43dBm) (Additional)	Offset-1 RBW	30 kHz
	Offset-2 RBW	30 kHz
	Offset-3 RBW	30 kHz
	Offset-4 RBW	100 kHz
	Offset-5 RBW	1 MHz
	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-3 Sweep Time	Auto
	Offset-4 Sweep Time	Auto
	Offset-5 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Normal
	Offset-2 Auto Sweep Time Select	Normal
	Offset-3 Auto Sweep Time Select	Normal
	Offset-4 Auto Sweep Time Select	Normal
	Offset-5 Auto Sweep Time Select	Normal
	Offset-1 Detection	RMS
	Offset-2 Detection	RMS
	Offset-3 Detection	RMS
	Offset-4 Detection	RMS
	Offset-5 Detection	RMS
	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-3 Trace Point	1001
	Offset-4 Trace Point	10001
	Offset-5 Trace Point	1001
	Offset-1 Integrate BW	Auto

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
W-CDMA Downlink (P ≥ 43dBm) (Additional)	Offset-2 Integrate BW	Auto
	Offset-3 Integrate BW	Auto
	Offset-4 Integrate BW	1 MHz
	Offset-5 Integrate BW	Auto
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	On
	Offset-5 On/Off	On
	Offset-6 On/Off	Off
	Limit-1 ABS1 Start Level	–12.5 dBm
	Limit-2 ABS1 Start Level	–12.5 dBm
	Limit-3 ABS1 Start Level	–24.5 dBm
	Limit-4 ABS1 Start Level	–11.5 dBm
	Limit-5 ABS1 Start Level	–11.5 dBm
	Limit-1 ABS1 Stop Level	–12.5 dBm
	Limit-2 ABS1 Stop Level	–24.5 dBm
	Limit-3 ABS1 Stop Level	–24.5 dBm
	Limit-4 ABS1 Stop Level	–11.5 dBm
	Limit-5 ABS1 Stop Level	–11.5 dBm
	Limit-1 ABS2 Start Level	–15 dBm
	Limit-2 ABS2 Start Level	–15 dBm
	Limit-4 ABS2 Start Level	–13 dBm
	Limit-5 ABS2 Start Level	–13 dBm
	Limit-1 ABS2 Stop Level	–15 dBm
	Limit-2 ABS2 Stop Level	–15 dBm
	Limit-4 ABS2 Stop Level	–13 dBm
	Limit-5 ABS2 Stop Level	–13 dBm
	Limit-1 Fail Logic	ABS1 and ABS2
	Limit-2 Fail Logic	ABS1 and ABS2
	Limit-3 Fail Logic	ABS1
	Limit-4 Fail Logic	ABS1 and ABS2
	Limit-5 Fail Logic	ABS1 and ABS2
	Limit-6 Fail Logic	Off

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
W-CDMA Downlink (39dBm ≤ P < 43dBm)	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Channel
	Channel BW	5 MHz
	RBW	30 kHz
	Sweep Time	Auto
	Auto Sweep Time Select	Normal
	Detection	RMS
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	2.515 MHz
	Offset-2 Start Freq	2.715 MHz
	Offset-3 Start Freq	3.515 MHz
	Offset-4 Start Freq	4.0 MHz
	Offset-5 Start Freq	8.0 MHz
	Offset-1 Stop Freq	2.715 MHz
	Offset-2 Stop Freq	3.515 MHz
	Offset-3 Stop Freq	4.0 MHz
	Offset-4 Stop Freq	8.0 MHz
	Offset-5 Stop Freq	12.5 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-3 Reference Level	Auto
	Offset-4 Reference Level	Auto
	Offset-5 Reference Level	Auto
	Offset-1 RBW	30 kHz
	Offset-2 RBW	30 kHz
	Offset-3 RBW	30 kHz
	Offset-4 RBW	100 kHz
	Offset-5 RBW	1 MHz

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
W-CDMA Downlink (39dBm ≤ P < 43dBm)	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-3 Sweep Time	Auto
	Offset-4 Sweep Time	Auto
	Offset-5 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Normal
	Offset-2 Auto Sweep Time Select	Normal
	Offset-3 Auto Sweep Time Select	Normal
	Offset-4 Auto Sweep Time Select	Normal
	Offset-5 Auto Sweep Time Select	Normal
	Offset-1 Detection	RMS
	Offset-2 Detection	RMS
	Offset-3 Detection	RMS
	Offset-4 Detection	RMS
	Offset-5 Detection	RMS
	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-3 Trace Point	1001
	Offset-4 Trace Point	10001
	Offset-5 Trace Point	1001
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto
	Offset-3 Integrate BW	Auto
	Offset-4 Integrate BW	1 MHz
	Offset-5 Integrate BW	Auto

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
W-CDMA Downlink (39dBm ≤ P < 43dBm)	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	On
	Offset-5 On/Off	On
	Offset-6 On/Off	Off
	Limit-1 ABS1 Start Level	–12.5 dBm
	Limit-2 ABS1 Start Level	–12.5 dBm
	Limit-3 ABS1 Start Level	–24.5 dBm
	Limit-4 ABS1 Start Level	–11.5 dBm
	Limit-5 ABS1 Start Level	–13 dBm
	Limit-1 ABS1 Stop Level	–12.5 dBm
	Limit-2 ABS1 Stop Level	–24.5 dBm
	Limit-3 ABS1 Stop Level	–24.5 dBm
	Limit-4 ABS1 Stop Level	–11.5 dBm
	Limit-5 ABS1 Stop Level	–13 dBm
	Limit-1 ABS2 Start Level	–15 dBm
	Limit-2 ABS2 Start Level	–15 dBm
	Limit-3 ABS2 Start Level	–13 dBm
	Limit-4 ABS2 Start Level	–13 dBm
	Limit-1 ABS2 Stop Level	–15 dBm
	Limit-2 ABS2 Stop Level	–15 dBm
	Limit-3 ABS2 Stop Level	–13 dBm
	Limit-4 ABS2 Stop Level	–13 dBm
	Limit-5 REL Start Level	–54.5 dB
	Limit-5 REL Stop Level	–54.5 dB
	Limit-1 Fail Logic	ABS1
	Limit-2 Fail Logic	ABS1
	Limit-3 Fail Logic	ABS1
	Limit-4 Fail Logic	ABS1
	Limit-5 Fail Logic	REL
	Limit-6 Fail Logic	Off

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
W-CDMA Downlink (39dBm ≤ P < 43dBm) (Additional)	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Channel
	Channel BW	5 MHz
	RBW	30 kHz
	Sweep Time	Auto
	Auto Sweep Time Select	Normal
	Detection	RMS
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	2.515 MHz
	Offset-2 Start Freq	2.715 MHz
	Offset-3 Start Freq	3.515 MHz
	Offset-4 Start Freq	4.0 MHz
	Offset-5 Start Freq	8.0 MHz
	Offset-1 Stop Freq	2.715 MHz
	Offset-2 Stop Freq	3.515 MHz
	Offset-3 Stop Freq	4.0 MHz
	Offset-4 Stop Freq	8.0 MHz
	Offset-5 Stop Freq	12.5 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-3 Reference Level	Auto
	Offset-4 Reference Level	Auto
	Offset-5 Reference Level	Auto
	Offset-1 RBW	30 kHz
	Offset-2 RBW	30 kHz
	Offset-3 RBW	30 kHz
	Offset-4 RBW	100 kHz
	Offset-5 RBW	1 MHz

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
W-CDMA Downlink (39dBm ≤ P < 43dBm) (Additional)	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-3 Sweep Time	Auto
	Offset-4 Sweep Time	Auto
	Offset-5 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Normal
	Offset-2 Auto Sweep Time Select	Normal
	Offset-3 Auto Sweep Time Select	Normal
	Offset-4 Auto Sweep Time Select	Normal
	Offset-5 Auto Sweep Time Select	Normal
	Offset-1 Detection	RMS
	Offset-2 Detection	RMS
	Offset-3 Detection	RMS
	Offset-4 Detection	RMS
	Offset-5 Detection	RMS
	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-3 Trace Point	1001
	Offset-4 Trace Point	10001
	Offset-5 Trace Point	1001
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto
	Offset-3 Integrate BW	Auto
	Offset-4 Integrate BW	1 MHz
	Offset-5 Integrate BW	Auto

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
W-CDMA Downlink (39dBm ≤ P < 43dBm) (Additional)	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	On
	Offset-5 On/Off	On
	Offset-6 On/Off	Off
	Limit-1 ABS1 Start Level	–12.5 dBm
	Limit-2 ABS1 Start Level	–12.5 dBm
	Limit-3 ABS1 Start Level	–24.5 dBm
	Limit-4 ABS1 Start Level	–11.5 dBm
	Limit-5 ABS1 Start Level	–13 dBm
	Limit-1 ABS1 Stop Level	–12.5 dBm
	Limit-2 ABS1 Stop Level	–24.5 dBm
	Limit-3 ABS1 Stop Level	–24.5 dBm
	Limit-4 ABS1 Stop Level	–11.5 dBm
	Limit-5 ABS1 Stop Level	–13 dBm
	Limit-1 ABS2 Start Level	–15 dBm
	Limit-2 ABS2 Start Level	–15 dBm
	Limit-3 ABS2 Start Level	–13 dBm
	Limit-4 ABS2 Start Level	–13 dBm
	Limit-1 ABS2 Stop Level	–15 dBm
	Limit-2 ABS2 Stop Level	–15 dBm
	Limit-3 ABS2 Stop Level	–13 dBm
	Limit-4 ABS2 Stop Level	–13 dBm
	Limit-5 REL Start Level	–54.5 dB
	Limit-5 REL Stop Level	–54.5 dB
	Limit-1 Fail Logic	ABS1 and ABS2
	Limit-2 Fail Logic	ABS1 and ABS2
	Limit-3 Fail Logic	ABS1
	Limit-4 Fail Logic	ABS1 and ABS2
	Limit-5 Fail Logic	ABS1 and REL
	Limit-6 Fail Logic	Off

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
W-CDMA Downlink (31dBm ≤ P < 39dBm)	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Channel
	Channel BW	5 MHz
	RBW	30 kHz
	Sweep Time	Auto
	Auto Sweep Time Select	Normal
	Detection	RMS
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	2.515 MHz
	Offset-2 Start Freq	2.715 MHz
	Offset-3 Start Freq	3.515 MHz
	Offset-4 Start Freq	4.0 MHz
	Offset-5 Start Freq	8.0 MHz
	Offset-1 Stop Freq	2.715 MHz
	Offset-2 Stop Freq	3.515 MHz
	Offset-3 Stop Freq	4.0 MHz
	Offset-4 Stop Freq	8.0 MHz
	Offset-5 Stop Freq	12.5 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-3 Reference Level	Auto
	Offset-4 Reference Level	Auto
	Offset-5 Reference Level	Auto
	Offset-1 RBW	30 kHz
	Offset-2 RBW	30 kHz
	Offset-3 RBW	30 kHz
	Offset-4 RBW	100 kHz
	Offset-5 RBW	1 MHz

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
W-CDMA Downlink (31dBm ≤ P < 39dBm)	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-3 Sweep Time	Auto
	Offset-4 Sweep Time	Auto
	Offset-5 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Normal
	Offset-2 Auto Sweep Time Select	Normal
	Offset-3 Auto Sweep Time Select	Normal
	Offset-4 Auto Sweep Time Select	Normal
	Offset-5 Auto Sweep Time Select	Normal
	Offset-1 Detection	RMS
	Offset-2 Detection	RMS
	Offset-3 Detection	RMS
	Offset-4 Detection	RMS
	Offset-5 Detection	RMS
	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-3 Trace Point	1001
	Offset-4 Trace Point	10001
	Offset-5 Trace Point	1001
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto
	Offset-3 Integrate BW	Auto
	Offset-4 Integrate BW	1 MHz
	Offset-5 Integrate BW	Auto

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
W-CDMA Downlink (31dBm ≤ P < 39dBm)	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	On
	Offset-5 On/Off	On
	Offset-6 On/Off	Off
	Limit-1 ABS1 Start Level	–15 dBm
	Limit-2 ABS1 Start Level	–15 dBm
	Limit-4 ABS1 Start Level	–13 dBm
	Limit-5 ABS1 Start Level	–13 dBm
	Limit-1 ABS1 Stop Level	–15 dBm
	Limit-2 ABS1 Stop Level	–15 dBm
	Limit-4 ABS1 Stop Level	–13 dBm
	Limit-5 ABS1 Stop Level	–13 dBm
	Limit-1 REL Start Level	–51.5 dB
	Limit-2 REL Start Level	–51.5 dB
	Limit-3 REL Start Level	–63.5 dB
	Limit-4 REL Start Level	–50.5 dB
	Limit-5 REL Start Level	–54.5 dB
	Limit-1 REL Stop Level	–51.5 dB
	Limit-2 REL Stop Level	–63.5 dB
	Limit-3 REL Stop Level	–63.5 dB
	Limit-4 REL Stop Level	–50.5 dB
	Limit-5 REL Stop Level	–54.5 dB
	Limit-1 Fail Logic	REL
	Limit-2 Fail Logic	REL
	Limit-3 Fail Logic	REL
	Limit-4 Fail Logic	REL
	Limit-5 Fail Logic	REL
	Limit-6 Fail Logic	Off

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
W-CDMA Downlink (31dBm ≤ P < 39dBm) (Additional)	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Channel
	Channel BW	5 MHz
	RBW	30 kHz
	Sweep Time	Auto
	Auto Sweep Time Select	Normal
	Detection	RMS
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	2.515 MHz
	Offset-2 Start Freq	2.715 MHz
	Offset-3 Start Freq	3.515 MHz
	Offset-4 Start Freq	4.0 MHz
	Offset-5 Start Freq	8.0 MHz
	Offset-1 Stop Freq	2.715 MHz
	Offset-2 Stop Freq	3.515 MHz
	Offset-3 Stop Freq	4.0 MHz
	Offset-4 Stop Freq	8.0 MHz
	Offset-5 Stop Freq	12.5 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-3 Reference Level	Auto
	Offset-4 Reference Level	Auto
	Offset-5 Reference Level	Auto
	Offset-1 RBW	30 kHz
	Offset-2 RBW	30 kHz
	Offset-3 RBW	30 kHz
	Offset-4 RBW	100 kHz
	Offset-5 RBW	1 MHz

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
W-CDMA Downlink (31dBm ≤ P < 39dBm) (Additional)	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-3 Sweep Time	Auto
	Offset-4 Sweep Time	Auto
	Offset-5 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Normal
	Offset-2 Auto Sweep Time Select	Normal
	Offset-3 Auto Sweep Time Select	Normal
	Offset-4 Auto Sweep Time Select	Normal
	Offset-5 Auto Sweep Time Select	Normal
	Offset-1 Detection	RMS
	Offset-2 Detection	RMS
	Offset-3 Detection	RMS
	Offset-4 Detection	RMS
	Offset-5 Detection	RMS
	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-3 Trace Point	1001
	Offset-4 Trace Point	10001
	Offset-5 Trace Point	1001
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto
	Offset-3 Integrate BW	Auto
	Offset-4 Integrate BW	1 MHz
	Offset-5 Integrate BW	Auto

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
W-CDMA Downlink (31dBm ≤ P < 39dBm) (Additional)	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	On
	Offset-5 On/Off	On
	Offset-6 On/Off	Off
	Limit-1 ABS1 Start Level	–15 dBm
	Limit-2 ABS1 Start Level	–15 dBm
	Limit-4 ABS1 Start Level	–13 dBm
	Limit-5 ABS1 Start Level	–13 dBm
	Limit-1 ABS1 Stop Level	–15 dBm
	Limit-2 ABS1 Stop Level	–15 dBm
	Limit-4 ABS1 Stop Level	–13 dBm
	Limit-5 ABS1 Stop Level	–13 dBm
	Limit-1 REL Start Level	–51.5 dB
	Limit-2 REL Start Level	–51.5 dB
	Limit-3 REL Start Level	–63.5 dB
	Limit-4 REL Start Level	–50.5 dB
	Limit-5 REL Start Level	–54.5 dB
	Limit-1 REL Stop Level	–51.5 dB
	Limit-2 REL Stop Level	–63.5 dB
	Limit-3 REL Stop Level	–63.5 dB
	Limit-4 REL Stop Level	–50.5 dB
	Limit-5 REL Stop Level	–54.5 dB
	Limit-1 Fail Logic	ABS1 and REL
	Limit-2 Fail Logic	ABS1 and REL
	Limit-3 Fail Logic	REL
	Limit-4 Fail Logic	ABS1 and REL
	Limit-5 Fail Logic	ABS1 and REL
	Limit-6 Fail Logic	Off

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
W-CDMA Downlink (P < 31dBm)	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Channel
	Channel BW	5 MHz
	RBW	30 kHz
	Sweep Time	Auto
	Auto Sweep Time Select	Normal
	Detection	RMS
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	2.515 MHz
	Offset-2 Start Freq	2.715 MHz
	Offset-3 Start Freq	3.515 MHz
	Offset-4 Start Freq	4.0 MHz
	Offset-5 Start Freq	8.0 MHz
	Offset-1 Stop Freq	2.715 MHz
	Offset-2 Stop Freq	3.515 MHz
	Offset-3 Stop Freq	4.0 MHz
	Offset-4 Stop Freq	8.0 MHz
	Offset-5 Stop Freq	12.5 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-3 Reference Level	Auto
	Offset-4 Reference Level	Auto
	Offset-5 Reference Level	Auto
	Offset-1 RBW	30 kHz
	Offset-2 RBW	30 kHz
	Offset-3 RBW	30 kHz
	Offset-4 RBW	100 kHz
	Offset-5 RBW	1 MHz

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
W-CDMA Downlink (P < 31dBm)	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-3 Sweep Time	Auto
	Offset-4 Sweep Time	Auto
	Offset-5 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Normal
	Offset-2 Auto Sweep Time Select	Normal
	Offset-3 Auto Sweep Time Select	Normal
	Offset-4 Auto Sweep Time Select	Normal
	Offset-5 Auto Sweep Time Select	Normal
	Offset-1 Detection	RMS
	Offset-2 Detection	RMS
	Offset-3 Detection	RMS
	Offset-4 Detection	RMS
	Offset-5 Detection	RMS
	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-3 Trace Point	1001
	Offset-4 Trace Point	10001
	Offset-5 Trace Point	1001
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto
	Offset-3 Integrate BW	Auto
	Offset-4 Integrate BW	1 MHz
	Offset-5 Integrate BW	Auto

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
W-CDMA Downlink (P < 31dBm)	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	On
	Offset-5 On/Off	On
	Offset-6 On/Off	Off
	Limit-1 ABS1 Start Level	–20.5 dBm
	Limit-2 ABS1 Start Level	–20.5 dBm
	Limit-3 ABS1 Start Level	–32.5 dBm
	Limit-4 ABS1 Start Level	–19.5 dBm
	Limit-5 ABS1 Start Level	–23.5 dBm
	Limit-1 ABS1 Stop Level	–20.5 dBm
	Limit-2 ABS1 Stop Level	–32.5 dBm
	Limit-3 ABS1 Stop Level	–32.5 dBm
	Limit-4 ABS1 Stop Level	–19.5 dBm
	Limit-5 ABS1 Stop Level	–23.5 dBm
	Limit-1 Fail Logic	ABS1
	Limit-2 Fail Logic	ABS1
	Limit-3 Fail Logic	ABS1
	Limit-4 Fail Logic	ABS1
	Limit-5 Fail Logic	ABS1
	Limit-6 Fail Logic	Off

Mobile WiMAX

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
Mobile WiMAX Downlink 5MHz BW	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Channel
	Channel BW	5 MHz
	RBW	1 MHz
	Sweep Time	Auto
	Auto Sweep Time Select	Normal
	Detection	RMS
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	2.5 MHz
	Offset-2 Start Freq	3.5 MHz
	Offset-1 Stop Freq	3.5 MHz
	Offset-2 Stop Freq	12.5 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-1 RBW	10 kHz
	Offset-2 RBW	100 kHz
	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Normal
	Offset-2 Auto Sweep Time Select	Normal
	Offset-1 Detection	RMS
	Offset-2 Detection	RMS
	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-1 Integrate BW	50 kHz
	Offset-2 Integrate BW	1 MHz
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Limit-1 ABS1 Start Level	–13.0 dBm
	Limit-2 ABS1 Start Level	–13.0 dBm
	Limit-1 ABS1 Stop Level	–13.0 dBm
	Limit-2 ABS1 Stop Level	–13.0 dBm
	Limit-Fail Logic	ABS1

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
Mobile WiMAX Uplink 5MHz BW	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Channel
	Channel BW	5 MHz
	RBW	1 MHz
	VBW	Auto
	Sweep Time	Auto
	Auto Sweep Time Select	Normal
	Detection	Positive
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	2.5 MHz
	Offset-2 Start Freq	3.5 MHz
	Offset-3 Start Freq	7.5 MHz
	Offset-4 Start Freq	8 MHz
	Offset-5 Start Freq	10.4 MHz
	Offset-1 Stop Freq	3.5 MHz
	Offset-2 Stop Freq	7.5 MHz
	Offset-3 Stop Freq	8 MHz
	Offset-4 Stop Freq	10.4 MHz
	Offset-5 Stop Freq	12.5 MHz
	Offset-Reference Level	Auto
	Offset-1 RBW	10 kHz
	Offset-2 RBW	100 kHz
	Offset-3, 4, 5 RBW	1 MHz
	Offset-Sweep Time	Auto
	Offset-Auto Sweep Time	Normal
	Offset-Detection	RMS
	Offset-Trace Point	1001
	Offset-1 Integrate BW	50 kHz
	Offset-2 Integrate BW	1 MHz
	Offset-3, 4, 5 Integrate BW	Auto
	Offset-1 / 2 / 3 / 4 / 5 On/Off	On
	Offset-6 On/Off	Off

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
Mobile WiMAX Uplink 5MHz BW	Limit-1 ABS1 Start Level	–13.0 dBm
	Limit-2 ABS1 Start Level	–13.0 dBm
	Limit-3 ABS1 Start Level	–20.0 dBm
	Limit-4 ABS1 Start Level	–25.0 dBm
	Limit-5 ABS1 Start Level	–25.03 dBm
	Limit-1 ABS1 Stop Level	–13.0 dBm
	Limit-2 ABS1 Stop Level	–13.0 dBm
	Limit-3 ABS1 Stop Level	–21.14 dBm
	Limit-4 ABS1 Stop Level	–25.0 dBm
	Limit-5 ABS1 Stop Level	–28.56 dBm
	Limit-Fail Logic	ABS1

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
Mobile WiMAX Downlink 10MHz BW	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Channel
	Channel BW	10 MHz
	RBW	1 MHz
	Sweep Time	Auto
	Auto Sweep Time Select	Normal
	Detection	RMS
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	5 MHz
	Offset-2 Start Freq	6 MHz
	Offset-1 Stop Freq	6 MHz
	Offset-2 Stop Freq	25.0 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-1 RBW	100 kHz
	Offset-2 RBW	100 kHz
	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Normal
	Offset-2 Auto Sweep Time Select	Normal
	Offset-1 Detection	RMS
	Offset-2 Detection	RMS
	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	1 MHz
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Limit-1 ABS1 Start Level	–13.0 dBm
	Limit-2 ABS1 Start Level	–13.0 dBm
	Limit-1 ABS1 Stop Level	–13.0 dBm
	Limit-2 ABS1 Stop Level	–13.0 dBm
	Limit-1 Fail Logic	ABS1
	Limit-2 Fail Logic	ABS1

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
Mobile WiMAX Uplink 10MHz BW	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Channel
	Channel BW	10 MHz
	RBW	1 MHz
	VBW	Auto
	Sweep Time	Auto
	Auto Sweep Time Select	Normal
	Detection	Positive
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	5 MHz
	Offset-2 Start Freq	6 MHz
	Offset-3 Start Freq	10 MHz
	Offset-4 Start Freq	11 MHz
	Offset-5 Start Freq	15 MHz
	Offset-6 Start Freq	20 MHz
	Offset-1 Stop Freq	6 MHz
	Offset-2 Stop Freq	10 MHz
	Offset-3 Stop Freq	11 MHz
	Offset-4 Stop Freq	15 MHz
	Offset-5 Stop Freq	20 MHz
	Offset-6 Stop Freq	25 MHz
	Offset-Reference Level	Auto
	Offset-1 RBW	100 kHz
	Offset-2 RBW	100 kHz
	Offset-3, 4, 5 RBW	1 MHz
	Offset-Sweep Time	Auto
	Offset-Auto Sweep Time	Normal
	Offset-Detection	RMS
	Offset-Trace Point	1001
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	1 MHz
	Offset-3,4,5 Integrate BW	Auto
	Offset-On/Off	On

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
Mobile WiMAX Uplink 10MHz BW	Limit-1 ABS1 Start Level	–13.0 dBm
	Limit-2 ABS1 Start Level	–13.0 dBm
	Limit-3 ABS1 Start Level	–13.0 dBm
	Limit-4 ABS1 Start Level	–25.0 dBm
	Limit-5 ABS1 Start Level	–28.57 dBm
	Limit-6 ABS1 Start Level	–37.0 dBm
	Limit-1 ABS1 Stop Level	–13.0 dBm
	Limit-2 ABS1 Stop Level	–13.0 dBm
	Limit-3 ABS1 Stop Level	–25.0 dBm
	Limit-4 ABS1 Stop Level	–25.0 dBm
	Limit-5 ABS1 Stop Level	–37.0 dBm
	Limit-6 ABS1 Start Level	–37.0 dBm
	Limit-Fail Logic	ABS1

LTE/LTE TDD Downlink

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
LTE Downlink (CategoryA < 1GHz 1.4MHz BW) LTE TDD Downlink (CategoryA < 1GHz 1.4MHz BW)	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Channel
	Channel BW	1.4 MHz
	RBW	30 kHz
	Sweep Time	Auto
	Auto Sweep Time Select	Normal
	Detection	RMS
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	0.750 MHz
	Offset-2 Start Freq	2.150 MHz
	Offset-1 Stop Freq	2.150 MHz
	Offset-2 Stop Freq	3.550 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-1 RBW	100 kHz
	Offset-2 RBW	100 kHz
	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Normal
	Offset-2 Auto Sweep Time Select	Normal
	Offset-1 Detection	RMS
	Offset-2 Detection	RMS
	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
LTE Downlink (CategoryA < 1GHz 1.4MHz BW) LTE TDD Downlink (CategoryA < 1GHz 1.4MHz BW)	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	Off
	Offset-4 On/Off	Off
	Offset-5 On/Off	Off
	Offset-6 On/Off	Off
	Limit-1 ABS1 Start Level	0.5 dBm
	Limit-2 ABS1 Start Level	–9.5 dBm
	Limit-1 ABS1 Stop Level	–9.5 dBm
	Limit-2 ABS1 Stop Level	–9.5 dBm
	Limit-1 ABS2 Start Level	0.5 dBm
	Limit-2 ABS2 Start Level	–9.5 dBm
	Limit-1 ABS2 Stop Level	–9.5 dBm
	Limit-2 ABS2 Stop Level	–9.5 dBm
	Limit-1 Fail Logic	ABS1
	Limit-2 Fail Logic	ABS1
	Limit-3 Fail Logic	Off
	Limit-4 Fail Logic	Off
	Limit-5 Fail Logic	Off
	Limit-6 Fail Logic	Off

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
LTE Downlink (CategoryA < 1GHz 3MHz BW) LTE TDD Downlink (CategoryA < 1GHz 3MHz BW)	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Channel
	Channel BW	3 MHz
	RBW	30 kHz
	Sweep Time	Auto
	Auto Sweep Time Select	Normal
	Detection	RMS
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	1.550 MHz
	Offset-2 Start Freq	4.550 MHz
	Offset-1 Stop Freq	4.550 MHz
	Offset-2 Stop Freq	7.550 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-1 RBW	100 kHz
	Offset-2 RBW	100 kHz
	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Normal
	Offset-2 Auto Sweep Time Select	Normal
	Offset-1 Detection	RMS
	Offset-2 Detection	RMS
	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
LTE Downlink (CategoryA < 1GHz 3MHz BW) LTE TDD Downlink (CategoryA < 1GHz 3MHz BW)	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	Off
	Offset-4 On/Off	Off
	Offset-5 On/Off	Off
	Offset-6 On/Off	Off
	Limit-1 ABS1 Start Level	–3.5 dBm
	Limit-2 ABS1 Start Level	–13.5 dBm
	Limit-1 ABS1 Stop Level	–13.5 dBm
	Limit-2 ABS1 Stop Level	–13.5 dBm
	Limit-1 ABS2 Start Level	–3.5 dBm
	Limit-2 ABS2 Start Level	–13.5 dBm
	Limit-1 ABS2 Stop Level	–13.5 dBm
	Limit-2 ABS2 Stop Level	–13.5 dBm
	Limit-1 Fail Logic	ABS1
	Limit-2 Fail Logic	ABS1
	Limit-3 Fail Logic	Off
	Limit-4 Fail Logic	Off
	Limit-5 Fail Logic	Off
	Limit-6 Fail Logic	Off

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
LTE Downlink (CategoryA < 1GHz 5MHz BW) LTE TDD Downlink (CategoryA < 1GHz 5MHz BW)	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Channel
	Channel BW	5 MHz
	RBW	30 kHz
	Sweep Time	Auto
	Auto Sweep Time Select	Normal
	Detection	RMS
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	2.550 MHz
	Offset-2 Start Freq	7.550 MHz
	Offset-1 Stop Freq	7.550 MHz
	Offset-2 Stop Freq	12.550 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-1 RBW	100 kHz
	Offset-2 RBW	100 kHz
	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Normal
	Offset-2 Auto Sweep Time Select	Normal
	Offset-1 Detection	RMS
	Offset-2 Detection	RMS
	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
LTE Downlink (CategoryA < 1GHz 5MHz BW) LTE TDD Downlink (CategoryA < 1GHz 5MHz BW)	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	Off
	Offset-4 On/Off	Off
	Offset-5 On/Off	Off
	Offset-6 On/Off	Off
	Limit-1 ABS1 Start Level	–5.5 dBm
	Limit-2 ABS1 Start Level	–12.5 dBm
	Limit-1 ABS1 Stop Level	–12.5 dBm
	Limit-2 ABS1 Stop Level	–12.5 dBm
	Limit-1 ABS2 Start Level	–5.5 dBm
	Limit-2 ABS2 Start Level	–12.5 dBm
	Limit-1 ABS2 Stop Level	–12.5 dBm
	Limit-2 ABS2 Stop Level	–12.5 dBm
	Limit-1 Fail Logic	ABS1
	Limit-2 Fail Logic	ABS1
	Limit-3 Fail Logic	Off
	Limit-4 Fail Logic	Off
	Limit-5 Fail Logic	Off
	Limit-6 Fail Logic	Off

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
LTE Downlink (CategoryA < 1GHz 10MHz BW) LTE TDD Downlink (CategoryA < 1GHz 10MHz BW)	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Channel
	Channel BW	10 MHz
	RBW	30 kHz
	Sweep Time	Auto
	Auto Sweep Time Select	Normal
	Detection	RMS
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	5.050 MHz
	Offset-2 Start Freq	10.050 MHz
	Offset-1 Stop Freq	10.050 MHz
	Offset-2 Stop Freq	15.050 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-1 RBW	100 kHz
	Offset-2 RBW	100 kHz
	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Normal
	Offset-2 Auto Sweep Time Select	Normal
	Offset-1 Detection	RMS
	Offset-2 Detection	RMS
	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
LTE Downlink (CategoryA < 1GHz 10MHz BW) LTE TDD Downlink (CategoryA < 1GHz 10MHz BW)	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	Off
	Offset-4 On/Off	Off
	Offset-5 On/Off	Off
	Offset-6 On/Off	Off
	Limit-1 ABS1 Start Level	–5.5 dBm
	Limit-2 ABS1 Start Level	–12.5 dBm
	Limit-1 ABS1 Stop Level	–12.5 dBm
	Limit-2 ABS1 Stop Level	–12.5 dBm
	Limit-1 ABS2 Start Level	–5.5 dBm
	Limit-2 ABS2 Start Level	–12.5 dBm
	Limit-1 ABS2 Stop Level	–12.5 dBm
	Limit-2 ABS2 Stop Level	–12.5 dBm
	Limit-1 Fail Logic	ABS1
	Limit-2 Fail Logic	ABS1
	Limit-3 Fail Logic	Off
	Limit-4 Fail Logic	Off
	Limit-5 Fail Logic	Off
	Limit-6 Fail Logic	Off

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
LTE Downlink (CategoryA < 1GHz 15MHz BW) LTE TDD Downlink (CategoryA < 1GHz 15MHz BW)	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Channel
	Channel BW	15 MHz
	RBW	30 kHz
	Sweep Time	Auto
	Auto Sweep Time Select	Normal
	Detection	RMS
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	7.550 MHz
	Offset-2 Start Freq	12.550 MHz
	Offset-1 Stop Freq	12.550 MHz
	Offset-2 Stop Freq	17.550 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-1 RBW	100 kHz
	Offset-2 RBW	100 kHz
	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Normal
	Offset-2 Auto Sweep Time Select	Normal
	Offset-1 Detection	RMS
	Offset-2 Detection	RMS
	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
LTE Downlink (CategoryA < 1GHz 15MHz BW) LTE TDD Downlink (CategoryA < 1GHz 15MHz BW)	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	Off
	Offset-4 On/Off	Off
	Offset-5 On/Off	Off
	Offset-6 On/Off	Off
	Limit-1 ABS1 Start Level	–5.5 dBm
	Limit-2 ABS1 Start Level	–12.5 dBm
	Limit-1 ABS1 Stop Level	–12.5 dBm
	Limit-2 ABS1 Stop Level	–12.5 dBm
	Limit-1 ABS2 Start Level	–5.5 dBm
	Limit-2 ABS2 Start Level	–12.5 dBm
	Limit-1 ABS2 Stop Level	–12.5 dBm
	Limit-2 ABS2 Stop Level	–12.5 dBm
	Limit-1 Fail Logic	ABS1
	Limit-2 Fail Logic	ABS1
	Limit-3 Fail Logic	Off
	Limit-4 Fail Logic	Off
	Limit-5 Fail Logic	Off
	Limit-6 Fail Logic	Off

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
LTE Downlink (CategoryA < 1GHz 20MHz BW) LTE TDD Downlink (CategoryA < 1GHz 20MHz BW)	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Channel
	Channel BW	20 MHz
	RBW	30 kHz
	Sweep Time	Auto
	Auto Sweep Time Select	Normal
	Detection	RMS
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	10.050 MHz
	Offset-2 Start Freq	15.050 MHz
	Offset-1 Stop Freq	15.050 MHz
	Offset-2 Stop Freq	20.050 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-1 RBW	100 kHz
	Offset-2 RBW	100 kHz
	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Normal
	Offset-2 Auto Sweep Time Select	Normal
	Offset-1 Detection	RMS
	Offset-2 Detection	RMS
	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
LTE Downlink (CategoryA < 1GHz 20MHz BW) LTE TDD Downlink (CategoryA < 1GHz 20MHz BW)	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	Off
	Offset-4 On/Off	Off
	Offset-5 On/Off	Off
	Offset-6 On/Off	Off
	Limit-1 ABS1 Start Level	–5.5 dBm
	Limit-2 ABS1 Start Level	–12.5 dBm
	Limit-1 ABS1 Stop Level	–12.5 dBm
	Limit-2 ABS1 Stop Level	–12.5 dBm
	Limit-1 ABS2 Start Level	–5.5 dBm
	Limit-2 ABS2 Start Level	–12.5 dBm
	Limit-1 ABS2 Stop Level	–12.5 dBm
	Limit-2 ABS2 Stop Level	–12.5 dBm
	Limit-1 Fail Logic	ABS1
	Limit-2 Fail Logic	ABS1
	Limit-3 Fail Logic	Off
	Limit-4 Fail Logic	Off
	Limit-5 Fail Logic	Off
	Limit-6 Fail Logic	Off

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
LTE Downlink (CategoryA > 1GHz 1.4MHz BW) LTE TDD Downlink (CategoryA > 1GHz 1.4MHz BW)	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Channel
	Channel BW	1.4 MHz
	RBW	30 kHz
	Sweep Time	Auto
	Auto Sweep Time Select	Normal
	Detection	RMS
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	0.750 MHz
	Offset-2 Start Freq	2.150 MHz
	Offset-1 Stop Freq	2.150 MHz
	Offset-2 Stop Freq	3.550 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-1 RBW	100 kHz
	Offset-2 RBW	100 kHz
	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Normal
	Offset-2 Auto Sweep Time Select	Normal
	Offset-1 Detection	RMS
	Offset-2 Detection	RMS
	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
LTE Downlink (CategoryA > 1GHz 1.4MHz BW) LTE TDD Downlink (CategoryA > 1GHz 1.4MHz BW)	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	Off
	Offset-4 On/Off	Off
	Offset-5 On/Off	Off
	Offset-6 On/Off	Off
	Limit-1 ABS1 Start Level	0.5 dBm
	Limit-2 ABS1 Start Level	–9.5 dBm
	Limit-1 ABS1 Stop Level	–9.5 dBm
	Limit-2 ABS1 Stop Level	–9.5 dBm
	Limit-1 ABS2 Start Level	0.5 dBm
	Limit-2 ABS2 Start Level	–9.5 dBm
	Limit-1 ABS2 Stop Level	–9.5 dBm
	Limit-2 ABS2 Stop Level	–9.5 dBm
	Limit-1 Fail Logic	ABS1
	Limit-2 Fail Logic	ABS1
	Limit-3 Fail Logic	Off
	Limit-4 Fail Logic	Off
	Limit-5 Fail Logic	Off
	Limit-6 Fail Logic	Off

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
LTE Downlink (CategoryA > 1GHz 3MHz BW) LTE TDD Downlink (CategoryA > 1GHz 3MHz BW)	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Channel
	Channel BW	3 MHz
	RBW	30 kHz
	Sweep Time	Auto
	Auto Sweep Time Select	Normal
	Detection	RMS
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	1.550 MHz
	Offset-2 Start Freq	4.550 MHz
	Offset-1 Stop Freq	4.550 MHz
	Offset-2 Stop Freq	7.550 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-1 RBW	100 kHz
	Offset-2 RBW	100 kHz
	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Normal
	Offset-2 Auto Sweep Time Select	Normal
	Offset-1 Detection	RMS
	Offset-2 Detection	RMS
	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
LTE Downlink (CategoryA > 1GHz 3MHz BW) LTE TDD Downlink (CategoryA > 1GHz 3MHz BW)	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	Off
	Offset-4 On/Off	Off
	Offset-5 On/Off	Off
	Offset-6 On/Off	Off
	Limit-1 ABS1 Start Level	–3.5 dBm
	Limit-2 ABS1 Start Level	–13.5 dBm
	Limit-1 ABS1 Stop Level	–13.5 dBm
	Limit-2 ABS1 Stop Level	–13.5 dBm
	Limit-1 ABS2 Start Level	–3.5 dBm
	Limit-2 ABS2 Start Level	–13.5 dBm
	Limit-1 ABS2 Stop Level	–13.5 dBm
	Limit-2 ABS2 Stop Level	–13.5 dBm
	Limit-1 Fail Logic	ABS1
	Limit-2 Fail Logic	ABS1
	Limit-3 Fail Logic	Off
	Limit-4 Fail Logic	Off
	Limit-5 Fail Logic	Off
	Limit-6 Fail Logic	Off

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
LTE Downlink (CategoryA > 1GHz 5MHz BW) LTE TDD Downlink (CategoryA > 1GHz 5MHz BW)	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Channel
	Channel BW	5 MHz
	RBW	30 kHz
	Sweep Time	Auto
	Auto Sweep Time Select	Normal
	Detection	RMS
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	2.550 MHz
	Offset-2 Start Freq	7.550 MHz
	Offset-1 Stop Freq	7.550 MHz
	Offset-2 Stop Freq	12.550 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-1 RBW	100 kHz
	Offset-2 RBW	100 kHz
	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Normal
	Offset-2 Auto Sweep Time Select	Normal
	Offset-1 Detection	RMS
	Offset-2 Detection	RMS
	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
LTE Downlink (CategoryA > 1GHz 5MHz BW) LTE TDD Downlink (CategoryA > 1GHz 5MHz BW)	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	Off
	Offset-4 On/Off	Off
	Offset-5 On/Off	Off
	Offset-6 On/Off	Off
	Limit-1 ABS1 Start Level	–5.5 dBm
	Limit-2 ABS1 Start Level	–12.5 dBm
	Limit-1 ABS1 Stop Level	–12.5 dBm
	Limit-2 ABS1 Stop Level	–12.5 dBm
	Limit-1 ABS2 Start Level	–5.5 dBm
	Limit-2 ABS2 Start Level	–12.5 dBm
	Limit-1 ABS2 Stop Level	–12.5 dBm
	Limit-2 ABS2 Stop Level	–12.5 dBm
	Limit-1 Fail Logic	ABS1
	Limit-2 Fail Logic	ABS1
	Limit-3 Fail Logic	Off
	Limit-4 Fail Logic	Off
	Limit-5 Fail Logic	Off
	Limit-6 Fail Logic	Off

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
LTE Downlink (CategoryA > 1GHz 10MHz BW) LTE TDD Downlink (CategoryA > 1GHz 10MHz BW)	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Channel
	Channel BW	10 MHz
	RBW	30 kHz
	Sweep Time	Auto
	Auto Sweep Time Select	Normal
	Detection	RMS
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	5.050 MHz
	Offset-2 Start Freq	10.050 MHz
	Offset-1 Stop Freq	10.050 MHz
	Offset-2 Stop Freq	15.050 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-1 RBW	100 kHz
	Offset-2 RBW	100 kHz
	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Normal
	Offset-2 Auto Sweep Time Select	Normal
	Offset-1 Detection	RMS
	Offset-2 Detection	RMS
	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
LTE Downlink (CategoryA > 1GHz 10MHz BW) LTE TDD Downlink (CategoryA > 1GHz 10MHz BW)	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	Off
	Offset-4 On/Off	Off
	Offset-5 On/Off	Off
	Offset-6 On/Off	Off
	Limit-1 ABS1 Start Level	–5.5 dBm
	Limit-2 ABS1 Start Level	–12.5 dBm
	Limit-1 ABS1 Stop Level	–12.5 dBm
	Limit-2 ABS1 Stop Level	–12.5 dBm
	Limit-1 ABS2 Start Level	–5.5 dBm
	Limit-2 ABS2 Start Level	–12.5 dBm
	Limit-1 ABS2 Stop Level	–12.5 dBm
	Limit-2 ABS2 Stop Level	–12.5 dBm
	Limit-1 Fail Logic	ABS1
	Limit-2 Fail Logic	ABS1
	Limit-3 Fail Logic	Off
	Limit-4 Fail Logic	Off
	Limit-5 Fail Logic	Off
	Limit-6 Fail Logic	Off

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
LTE Downlink (CategoryA > 1GHz 15MHz BW) LTE TDD Downlink (CategoryA > 1GHz 15MHz BW)	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Channel
	Channel BW	15 MHz
	RBW	30 kHz
	Sweep Time	Auto
	Auto Sweep Time Select	Normal
	Detection	RMS
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	7.550 MHz
	Offset-2 Start Freq	12.550 MHz
	Offset-1 Stop Freq	12.550 MHz
	Offset-2 Stop Freq	17.550 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-1 RBW	100 kHz
	Offset-2 RBW	100 kHz
	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Normal
	Offset-2 Auto Sweep Time Select	Normal
	Offset-1 Detection	RMS
	Offset-2 Detection	RMS
	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
LTE Downlink (CategoryA > 1GHz 15MHz BW) LTE TDD Downlink (CategoryA > 1GHz 15MHz BW)	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	Off
	Offset-4 On/Off	Off
	Offset-5 On/Off	Off
	Offset-6 On/Off	Off
	Limit-1 ABS1 Start Level	–5.5 dBm
	Limit-2 ABS1 Start Level	–12.5 dBm
	Limit-1 ABS1 Stop Level	–12.5 dBm
	Limit-2 ABS1 Stop Level	–12.5 dBm
	Limit-1 ABS2 Start Level	–5.5 dBm
	Limit-2 ABS2 Start Level	–12.5 dBm
	Limit-1 ABS2 Stop Level	–12.5 dBm
	Limit-2 ABS2 Stop Level	–12.5 dBm
	Limit-1 Fail Logic	ABS1
	Limit-2 Fail Logic	ABS1
	Limit-3 Fail Logic	Off
	Limit-4 Fail Logic	Off
	Limit-5 Fail Logic	Off
	Limit-6 Fail Logic	Off

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
LTE Downlink (CategoryA > 1GHz 20MHz BW) LTE TDD Downlink (CategoryA > 1GHz 20MHz BW)	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Channel
	Channel BW	20 MHz
	RBW	30 kHz
	Sweep Time	Auto
	Auto Sweep Time Select	Normal
	Detection	RMS
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	10.050 MHz
	Offset-2 Start Freq	15.050 MHz
	Offset-1 Stop Freq	15.050 MHz
	Offset-2 Stop Freq	20.050 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-1 RBW	100 kHz
	Offset-2 RBW	100 kHz
	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Normal
	Offset-2 Auto Sweep Time Select	Normal
	Offset-1 Detection	RMS
	Offset-2 Detection	RMS
	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
LTE Downlink (CategoryA > 1GHz 20MHz BW) LTE TDD Downlink (CategoryA > 1GHz 20MHz BW)	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	Off
	Offset-4 On/Off	Off
	Offset-5 On/Off	Off
	Offset-6 On/Off	Off
	Limit-1 ABS1 Start Level	–5.5 dBm
	Limit-2 ABS1 Start Level	–12.5 dBm
	Limit-1 ABS1 Stop Level	–12.5 dBm
	Limit-2 ABS1 Stop Level	–12.5 dBm
	Limit-1 ABS2 Start Level	–5.5 dBm
	Limit-2 ABS2 Start Level	–12.5 dBm
	Limit-1 ABS2 Stop Level	–12.5 dBm
	Limit-2 ABS2 Stop Level	–12.5 dBm
	Limit-1 Fail Logic	ABS1
	Limit-2 Fail Logic	ABS1
	Limit-3 Fail Logic	Off
	Limit-4 Fail Logic	Off
	Limit-5 Fail Logic	Off
	Limit-6 Fail Logic	Off

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
LTE Downlink (CategoryB < 1GHz 1.4MHz BW) LTE TDD Downlink (CategoryB < 1GHz 1.4MHz BW)	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Channel
	Channel BW	1.4 MHz
	RBW	30 kHz
	Sweep Time	Auto
	Auto Sweep Time Select	Normal
	Detection	RMS
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	0.750 MHz
	Offset-2 Start Freq	2.150 MHz
	Offset-1 Stop Freq	2.150 MHz
	Offset-2 Stop Freq	3.550 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-1 RBW	100 kHz
	Offset-2 RBW	100 kHz
	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Normal
	Offset-2 Auto Sweep Time Select	Normal
	Offset-1 Detection	RMS
	Offset-2 Detection	RMS
	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
LTE Downlink (CategoryB < 1GHz 1.4MHz BW) LTE TDD Downlink (CategoryB < 1GHz 1.4MHz BW)	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	Off
	Offset-4 On/Off	Off
	Offset-5 On/Off	Off
	Offset-6 On/Off	Off
	Limit-1 ABS1 Start Level	0.5 dBm
	Limit-2 ABS1 Start Level	–9.5 dBm
	Limit-1 ABS1 Stop Level	–9.5 dBm
	Limit-2 ABS1 Stop Level	–9.5 dBm
	Limit-1 ABS2 Start Level	0.5 dBm
	Limit-2 ABS2 Start Level	–9.5 dBm
	Limit-1 ABS2 Stop Level	–9.5 dBm
	Limit-2 ABS2 Stop Level	–9.5 dBm
	Limit-1 Fail Logic	ABS1
	Limit-2 Fail Logic	ABS1
	Limit-3 Fail Logic	Off
	Limit-4 Fail Logic	Off
	Limit-5 Fail Logic	Off
	Limit-6 Fail Logic	Off

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
LTE Downlink (CategoryB < 1GHz 3MHz BW) LTE TDD Downlink (CategoryB < 1GHz 3MHz BW)	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Channel
	Channel BW	3 MHz
	RBW	30 kHz
	Sweep Time	Auto
	Auto Sweep Time Select	Normal
	Detection	RMS
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	1.550 MHz
	Offset-2 Start Freq	4.550 MHz
	Offset-1 Stop Freq	4.550 MHz
	Offset-2 Stop Freq	7.550 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-1 RBW	100 kHz
	Offset-2 RBW	100 kHz
	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Normal
	Offset-2 Auto Sweep Time Select	Normal
	Offset-1 Detection	RMS
	Offset-2 Detection	RMS
	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
LTE Downlink (CategoryB < 1GHz 3MHz BW) LTE TDD Downlink (CategoryB < 1GHz 3MHz BW)	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	Off
	Offset-4 On/Off	Off
	Offset-5 On/Off	Off
	Offset-6 On/Off	Off
	Limit-1 ABS1 Start Level	–3.5 dBm
	Limit-2 ABS1 Start Level	–13.5 dBm
	Limit-1 ABS1 Stop Level	–13.5 dBm
	Limit-2 ABS1 Stop Level	–13.5 dBm
	Limit-1 ABS2 Start Level	–3.5 dBm
	Limit-2 ABS2 Start Level	–13.5 dBm
	Limit-1 ABS2 Stop Level	–13.5 dBm
	Limit-2 ABS2 Stop Level	–13.5 dBm
	Limit-1 Fail Logic	ABS1
	Limit-2 Fail Logic	ABS1
	Limit-3 Fail Logic	Off
	Limit-4 Fail Logic	Off
	Limit-5 Fail Logic	Off
	Limit-6 Fail Logic	Off

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
LTE Downlink (CategoryB < 1GHz 5MHz BW) LTE TDD Downlink (CategoryB < 1GHz 5MHz BW)	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Channel
	Channel BW	5 MHz
	RBW	30 kHz
	Sweep Time	Auto
	Auto Sweep Time Select	Normal
	Detection	RMS
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	2.550 MHz
	Offset-2 Start Freq	7.550 MHz
	Offset-1 Stop Freq	7.550 MHz
	Offset-2 Stop Freq	12.550 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-1 RBW	100 kHz
	Offset-2 RBW	100 kHz
	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Normal
	Offset-2 Auto Sweep Time Select	Normal
	Offset-1 Detection	RMS
	Offset-2 Detection	RMS
	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
LTE Downlink (CategoryB < 1GHz 5MHz BW) LTE TDD Downlink (CategoryB < 1GHz 5MHz BW)	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	Off
	Offset-4 On/Off	Off
	Offset-5 On/Off	Off
	Offset-6 On/Off	Off
	Limit-1 ABS1 Start Level	–5.5 dBm
	Limit-2 ABS1 Start Level	–12.5 dBm
	Limit-1 ABS1 Stop Level	–12.5 dBm
	Limit-2 ABS1 Stop Level	–12.5 dBm
	Limit-1 ABS2 Start Level	–5.5 dBm
	Limit-2 ABS2 Start Level	–12.5 dBm
	Limit-1 ABS2 Stop Level	–12.5 dBm
	Limit-2 ABS2 Stop Level	–12.5 dBm
	Limit-1 Fail Logic	ABS1
	Limit-2 Fail Logic	ABS1
	Limit-3 Fail Logic	Off
	Limit-4 Fail Logic	Off
	Limit-5 Fail Logic	Off
	Limit-6 Fail Logic	Off

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
LTE Downlink (CategoryB < 1GHz 10MHz BW) LTE TDD Downlink (CategoryB < 1GHz 10MHz BW)	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Channel
	Channel BW	10 MHz
	RBW	30 kHz
	Sweep Time	Auto
	Auto Sweep Time Select	Normal
	Detection	RMS
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	5.050 MHz
	Offset-2 Start Freq	10.050 MHz
	Offset-1 Stop Freq	10.050 MHz
	Offset-2 Stop Freq	15.050 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-1 RBW	100 kHz
	Offset-2 RBW	100 kHz
	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Normal
	Offset-2 Auto Sweep Time Select	Normal
	Offset-1 Detection	RMS
	Offset-2 Detection	RMS
	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
LTE Downlink (CategoryB < 1GHz 10MHz BW) LTE TDD Downlink (CategoryB < 1GHz 10MHz BW)	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	Off
	Offset-4 On/Off	Off
	Offset-5 On/Off	Off
	Offset-6 On/Off	Off
	Limit-1 ABS1 Start Level	–5.5 dBm
	Limit-2 ABS1 Start Level	–12.5 dBm
	Limit-1 ABS1 Stop Level	–12.5 dBm
	Limit-2 ABS1 Stop Level	–12.5 dBm
	Limit-1 ABS2 Start Level	–5.5 dBm
	Limit-2 ABS2 Start Level	–12.5 dBm
	Limit-1 ABS2 Stop Level	–12.5 dBm
	Limit-2 ABS2 Stop Level	–12.5 dBm
	Limit-1 Fail Logic	ABS1
	Limit-2 Fail Logic	ABS1
	Limit-3 Fail Logic	Off
	Limit-4 Fail Logic	Off
	Limit-5 Fail Logic	Off
	Limit-6 Fail Logic	Off

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
LTE Downlink (CategoryB < 1GHz 15MHz BW) LTE TDD Downlink (CategoryB < 1GHz 15MHz BW)	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Channel
	Channel BW	15 MHz
	RBW	30 kHz
	Sweep Time	Auto
	Auto Sweep Time Select	Normal
	Detection	RMS
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	7.550 MHz
	Offset-2 Start Freq	12.550 MHz
	Offset-1 Stop Freq	12.550 MHz
	Offset-2 Stop Freq	17.550 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-1 RBW	100 kHz
	Offset-2 RBW	100 kHz
	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Normal
	Offset-2 Auto Sweep Time Select	Normal
	Offset-1 Detection	RMS
	Offset-2 Detection	RMS
	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
LTE Downlink (CategoryB < 1GHz 15MHz BW) LTE TDD Downlink (CategoryB < 1GHz 15MHz BW)	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	Off
	Offset-4 On/Off	Off
	Offset-5 On/Off	Off
	Offset-6 On/Off	Off
	Limit-1 ABS1 Start Level	–5.5 dBm
	Limit-2 ABS1 Start Level	–12.5 dBm
	Limit-1 ABS1 Stop Level	–12.5 dBm
	Limit-2 ABS1 Stop Level	–12.5 dBm
	Limit-1 ABS2 Start Level	–5.5 dBm
	Limit-2 ABS2 Start Level	–12.5 dBm
	Limit-1 ABS2 Stop Level	–12.5 dBm
	Limit-2 ABS2 Stop Level	–12.5 dBm
	Limit-1 Fail Logic	ABS1
	Limit-2 Fail Logic	ABS1
	Limit-3 Fail Logic	Off
	Limit-4 Fail Logic	Off
	Limit-5 Fail Logic	Off
	Limit-6 Fail Logic	Off

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
LTE Downlink (CategoryB < 1GHz 20MHz BW) LTE TDD Downlink (CategoryB < 1GHz 20MHz BW)	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Channel
	Channel BW	20 MHz
	RBW	30 kHz
	Sweep Time	Auto
	Auto Sweep Time Select	Normal
	Detection	RMS
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	10.050 MHz
	Offset-2 Start Freq	15.050 MHz
	Offset-1 Stop Freq	15.050 MHz
	Offset-2 Stop Freq	20.050 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-1 RBW	100 kHz
	Offset-2 RBW	100 kHz
	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Normal
	Offset-2 Auto Sweep Time Select	Normal
	Offset-1 Detection	RMS
	Offset-2 Detection	RMS
	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
LTE Downlink (CategoryB < 1GHz 20MHz BW) LTE TDD Downlink (CategoryB < 1GHz 20MHz BW)	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	Off
	Offset-4 On/Off	Off
	Offset-5 On/Off	Off
	Offset-6 On/Off	Off
	Limit-1 ABS1 Start Level	–5.5 dBm
	Limit-2 ABS1 Start Level	–12.5 dBm
	Limit-1 ABS1 Stop Level	–12.5 dBm
	Limit-2 ABS1 Stop Level	–12.5 dBm
	Limit-1 ABS2 Start Level	–5.5 dBm
	Limit-2 ABS2 Start Level	–12.5 dBm
	Limit-1 ABS2 Stop Level	–12.5 dBm
	Limit-2 ABS2 Stop Level	–12.5 dBm
	Limit-1 Fail Logic	ABS1
	Limit-2 Fail Logic	ABS1
	Limit-3 Fail Logic	Off
	Limit-4 Fail Logic	Off
	Limit-5 Fail Logic	Off
	Limit-6 Fail Logic	Off

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
LTE Downlink (CategoryB > 1GHz 1.4MHz BW) LTE TDD Downlink (CategoryB > 1GHz 1.4MHz BW)	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Channel
	Channel BW	1.4 MHz
	RBW	30 kHz
	Sweep Time	Auto
	Auto Sweep Time Select	Normal
	Detection	RMS
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	0.750 MHz
	Offset-2 Start Freq	2.150 MHz
	Offset-1 Stop Freq	2.150 MHz
	Offset-2 Stop Freq	3.550 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-1 RBW	100 kHz
	Offset-2 RBW	100 kHz
	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Normal
	Offset-2 Auto Sweep Time Select	Normal
	Offset-1 Detection	RMS
	Offset-2 Detection	RMS
	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
LTE Downlink (CategoryB > 1GHz 1.4MHz BW) LTE TDD Downlink (CategoryB > 1GHz 1.4MHz BW)	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	Off
	Offset-4 On/Off	Off
	Offset-5 On/Off	Off
	Offset-6 On/Off	Off
	Limit-1 ABS1 Start Level	0.5 dBm
	Limit-2 ABS1 Start Level	–9.5 dBm
	Limit-1 ABS1 Stop Level	–9.5 dBm
	Limit-2 ABS1 Stop Level	–9.5 dBm
	Limit-1 ABS2 Start Level	0.5 dBm
	Limit-2 ABS2 Start Level	–9.5 dBm
	Limit-1 ABS2 Stop Level	–9.5 dBm
	Limit-2 ABS2 Stop Level	–9.5 dBm
	Limit-1 Fail Logic	ABS1
	Limit-2 Fail Logic	ABS1
	Limit-3 Fail Logic	Off
	Limit-4 Fail Logic	Off
	Limit-5 Fail Logic	Off
	Limit-6 Fail Logic	Off

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
LTE Downlink (CategoryB > 1GHz 3MHz BW) LTE TDD Downlink (CategoryB > 1GHz 3MHz BW)	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Channel
	Channel BW	3 MHz
	RBW	30 kHz
	Sweep Time	Auto
	Auto Sweep Time Select	Normal
	Detection	RMS
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	1.550 MHz
	Offset-2 Start Freq	4.550 MHz
	Offset-1 Stop Freq	4.550 MHz
	Offset-2 Stop Freq	7.550 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-1 RBW	100 kHz
	Offset-2 RBW	100 kHz
	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Normal
	Offset-2 Auto Sweep Time Select	Normal
	Offset-1 Detection	RMS
	Offset-2 Detection	RMS
	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
LTE Downlink (CategoryB > 1GHz 3MHz BW) LTE TDD Downlink (CategoryB > 1GHz 3MHz BW)	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	Off
	Offset-4 On/Off	Off
	Offset-5 On/Off	Off
	Offset-6 On/Off	Off
	Limit-1 ABS1 Start Level	–3.5 dBm
	Limit-2 ABS1 Start Level	–13.5 dBm
	Limit-1 ABS1 Stop Level	–13.5 dBm
	Limit-2 ABS1 Stop Level	–13.5 dBm
	Limit-1 ABS2 Start Level	–3.5 dBm
	Limit-2 ABS2 Start Level	–13.5 dBm
	Limit-1 ABS2 Stop Level	–13.5 dBm
	Limit-2 ABS2 Stop Level	–13.5 dBm
	Limit-1 Fail Logic	ABS1
	Limit-2 Fail Logic	ABS1
	Limit-3 Fail Logic	Off
	Limit-4 Fail Logic	Off
	Limit-5 Fail Logic	Off
	Limit-6 Fail Logic	Off

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
LTE Downlink (CategoryB > 1GHz 5MHz BW) LTE TDD Downlink (CategoryB > 1GHz 5MHz BW)	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Channel
	Channel BW	5 MHz
	RBW	30 kHz
	Sweep Time	Auto
	Auto Sweep Time Select	Normal
	Detection	RMS
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	2.550 MHz
	Offset-2 Start Freq	7.550 MHz
	Offset-1 Stop Freq	7.550 MHz
	Offset-2 Stop Freq	12.550 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-1 RBW	100 kHz
	Offset-2 RBW	100 kHz
	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Normal
	Offset-2 Auto Sweep Time Select	Normal
	Offset-1 Detection	RMS
	Offset-2 Detection	RMS
	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
LTE Downlink (CategoryB > 1GHz 5MHz BW) LTE TDD Downlink (CategoryB > 1GHz 5MHz BW)	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	Off
	Offset-4 On/Off	Off
	Offset-5 On/Off	Off
	Offset-6 On/Off	Off
	Limit-1 ABS1 Start Level	–5.5 dBm
	Limit-2 ABS1 Start Level	–12.5 dBm
	Limit-1 ABS1 Stop Level	–12.5 dBm
	Limit-2 ABS1 Stop Level	–12.5 dBm
	Limit-1 ABS2 Start Level	–5.5 dBm
	Limit-2 ABS2 Start Level	–12.5 dBm
	Limit-1 ABS2 Stop Level	–12.5 dBm
	Limit-2 ABS2 Stop Level	–12.5 dBm
	Limit-1 Fail Logic	ABS1
	Limit-2 Fail Logic	ABS1
	Limit-3 Fail Logic	Off
	Limit-4 Fail Logic	Off
	Limit-5 Fail Logic	Off
	Limit-6 Fail Logic	Off

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
LTE Downlink (CategoryB > 1GHz 10MHz BW) LTE TDD Downlink (CategoryB > 1GHz 10MHz BW)	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Channel
	Channel BW	10 MHz
	RBW	30 kHz
	Sweep Time	Auto
	Auto Sweep Time Select	Normal
	Detection	RMS
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	5.050 MHz
	Offset-2 Start Freq	10.050 MHz
	Offset-1 Stop Freq	10.050 MHz
	Offset-2 Stop Freq	15.050 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-1 RBW	100 kHz
	Offset-2 RBW	100 kHz
	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Normal
	Offset-2 Auto Sweep Time Select	Normal
	Offset-1 Detection	RMS
	Offset-2 Detection	RMS
	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
LTE Downlink (CategoryB > 1GHz 10MHz BW) LTE TDD Downlink (CategoryB > 1GHz 10MHz BW)	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	Off
	Offset-4 On/Off	Off
	Offset-5 On/Off	Off
	Offset-6 On/Off	Off
	Limit-1 ABS1 Start Level	–5.5 dBm
	Limit-2 ABS1 Start Level	–12.5 dBm
	Limit-1 ABS1 Stop Level	–12.5 dBm
	Limit-2 ABS1 Stop Level	–12.5 dBm
	Limit-1 ABS2 Start Level	–5.5 dBm
	Limit-2 ABS2 Start Level	–12.5 dBm
	Limit-1 ABS2 Stop Level	–12.5 dBm
	Limit-2 ABS2 Stop Level	–12.5 dBm
	Limit-1 Fail Logic	ABS1
	Limit-2 Fail Logic	ABS1
	Limit-3 Fail Logic	Off
	Limit-4 Fail Logic	Off
	Limit-5 Fail Logic	Off
	Limit-6 Fail Logic	Off

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
LTE Downlink (CategoryB > 1GHz 15MHz BW) LTE TDD Downlink (CategoryB > 1GHz 15MHz BW)	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Channel
	Channel BW	15 MHz
	RBW	30 kHz
	Sweep Time	Auto
	Auto Sweep Time Select	Normal
	Detection	RMS
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	7.550 MHz
	Offset-2 Start Freq	12.550 MHz
	Offset-1 Stop Freq	12.550 MHz
	Offset-2 Stop Freq	17.550 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-1 RBW	100 kHz
	Offset-2 RBW	100 kHz
	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Normal
	Offset-2 Auto Sweep Time Select	Normal
	Offset-1 Detection	RMS
	Offset-2 Detection	RMS
	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
LTE Downlink (CategoryB > 1GHz 15MHz BW) LTE TDD Downlink (CategoryB > 1GHz 15MHz BW)	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	Off
	Offset-4 On/Off	Off
	Offset-5 On/Off	Off
	Offset-6 On/Off	Off
	Limit-1 ABS1 Start Level	–5.5 dBm
	Limit-2 ABS1 Start Level	–12.5 dBm
	Limit-1 ABS1 Stop Level	–12.5 dBm
	Limit-2 ABS1 Stop Level	–12.5 dBm
	Limit-1 ABS2 Start Level	–5.5 dBm
	Limit-2 ABS2 Start Level	–12.5 dBm
	Limit-1 ABS2 Stop Level	–12.5 dBm
	Limit-2 ABS2 Stop Level	–12.5 dBm
	Limit-1 Fail Logic	ABS1
	Limit-2 Fail Logic	ABS1
	Limit-3 Fail Logic	Off
	Limit-4 Fail Logic	Off
	Limit-5 Fail Logic	Off
	Limit-6 Fail Logic	Off

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
LTE Downlink (CategoryB > 1GHz 20MHz BW) LTE TDD Downlink (CategoryB > 1GHz 20MHz BW)	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Channel
	Channel BW	20 MHz
	RBW	30 kHz
	Sweep Time	Auto
	Auto Sweep Time Select	Normal
	Detection	RMS
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	10.050 MHz
	Offset-2 Start Freq	15.050 MHz
	Offset-1 Stop Freq	15.050 MHz
	Offset-2 Stop Freq	20.050 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-1 RBW	100 kHz
	Offset-2 RBW	100 kHz
	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Normal
	Offset-2 Auto Sweep Time Select	Normal
	Offset-1 Detection	RMS
	Offset-2 Detection	RMS
	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
LTE Downlink (CategoryB > 1GHz 20MHz BW) LTE TDD Downlink (CategoryB > 1GHz 20MHz BW)	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	Off
	Offset-4 On/Off	Off
	Offset-5 On/Off	Off
	Offset-6 On/Off	Off
	Limit-1 ABS1 Start Level	–5.5 dBm
	Limit-2 ABS1 Start Level	–12.5 dBm
	Limit-1 ABS1 Stop Level	–12.5 dBm
	Limit-2 ABS1 Stop Level	–12.5 dBm
	Limit-1 ABS2 Start Level	–5.5 dBm
	Limit-2 ABS2 Start Level	–12.5 dBm
	Limit-1 ABS2 Stop Level	–12.5 dBm
	Limit-2 ABS2 Stop Level	–12.5 dBm
	Limit-1 Fail Logic	ABS1
	Limit-2 Fail Logic	ABS1
	Limit-3 Fail Logic	Off
	Limit-4 Fail Logic	Off
	Limit-5 Fail Logic	Off
	Limit-6 Fail Logic	Off

LTE/LTE TDD Uplink

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
LTE Uplink (General 1.4MHz) LTE TDD Uplink (General 1.4MHz)	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Channel
	Channel BW	1.4 MHz
	RBW	30 kHz
	Sweep Time	500 ms
	Auto Sweep Time Select	Normal
	Detection	RMS
	Trace Point	501
	Filter Type	Rect
	Offset-1 Start Freq	0.715 MHz
	Offset-2 Start Freq	2.2 MHz
	Offset-3 Start Freq	3.699700 MHz
	Offset-1 Stop Freq	1.685 MHz
	Offset-2 Stop Freq	2.7 MHz
	Offset-3 Stop Freq	3.7 MHz
	Offset-1/2/3 Reference Level	Auto
	Offset-1 RBW	30 kHz
	Offset-2 RBW	1 MHz
	Offset-3 RBW	1 MHz
	Offset-1 Sweep Time	400 ms
	Offset-2 Sweep Time	10 ms
	Offset-3 Sweep Time	10 ms
	Offset-1 Auto Sweep Time Select	Normal
	Offset-2 Auto Sweep Time Select	Normal
	Offset-3 Auto Sweep Time Select	Normal
	Offset-1 Detection	RMS
	Offset-2 Detection	RMS
	Offset-3 Detection	RMS
	Offset-1 Trace Point	401
	Offset-2 Trace Point	11
	Offset-3 Trace Point	11
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto
	Offset-3 Integrate BW	Auto

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
LTE Uplink (General 1.4MHz) LTE TDD Uplink (General 1.4MHz) (Cont'd)	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	Off
	Offset-5 On/Off	Off
	Offset-6 On/Off	Off
	Limit-1 ABS1 Start Level	–8.5 dBm
	Limit-2 ABS1 Start Level	–8.5 dBm
	Limit-3 ABS1 Start Level	–23.5 dBm
	Limit-1 ABS1 Stop Level	–8.5 dBm
	Limit-2 ABS1 Stop Level	–8.5 dBm
	Limit-3 ABS1 Stop Level	–23.5 dBm
	Limit-1 Fail Logic	ABS1
	Limit-2 Fail Logic	ABS1
	Limit-3 Fail Logic	ABS1
	Limit-4 Fail Logic	Off
	Limit-5 Fail Logic	Off
	Limit-6 Fail Logic	Off

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
LTE Uplink (General 3MHz) LTE TDD Uplink (General 3MHz)	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Channel
	Channel BW	3 MHz
	RBW	30 kHz
	Sweep Time	1000 ms
	Auto Sweep Time Select	Normal
	Detection	RMS
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	1.515 MHz
	Offset-2 Start Freq	3 MHz
	Offset-3 Start Freq	6.699700 MHz
	Offset-1 Stop Freq	2.485 MHz
	Offset-2 Stop Freq	6 MHz
	Offset-3 Stop Freq	7 MHz
	Offset-1/2/3 Reference Level	Auto
	Offset-1 RBW	30 kHz
	Offset-2 RBW	1 MHz
	Offset-3 RBW	1 MHz
	Offset-1 Sweep Time	400 ms
	Offset-2 Sweep Time	40 ms
	Offset-3 Sweep Time	10 ms
	Offset-1 Auto Sweep Time Select	Normal
	Offset-2 Auto Sweep Time Select	Normal
	Offset-3 Auto Sweep Time Select	Normal
	Offset-1 Detection	RMS
	Offset-2 Detection	RMS
	Offset-3 Detection	RMS
	Offset-1 Trace Point	401
	Offset-2 Trace Point	41
	Offset-3 Trace Point	11
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto
	Offset-3 Integrate BW	Auto

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
LTE Uplink (General 3MHz) LTE TDD Uplink (General 3MHz) (Cont'd)	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	Off
	Offset-5 On/Off	Off
	Offset-6 On/Off	Off
	Limit-1 ABS1 Start Level	–11.5 dBm
	Limit-2 ABS1 Start Level	–8.5 dBm
	Limit-3 ABS1 Start Level	–23.5 dBm
	Limit-1 ABS1 Stop Level	–11.5 dBm
	Limit-2 ABS1 Stop Level	–8.5 dBm
	Limit-3 ABS1 Stop Level	–23.5 dBm
	Limit-1 Fail Logic	ABS1
	Limit-2 Fail Logic	ABS1
	Limit-3 Fail Logic	ABS1
	Limit-4 Fail Logic	Off
	Limit-5 Fail Logic	Off
	Limit-6 Fail Logic	Off

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
LTE Uplink (General 5MHz) LTE TDD Uplink (General 5MHz)	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Channel
	Channel BW	5 MHz
	RBW	100 kHz
	Sweep Time	500 ms
	Auto Sweep Time Select	Normal
	Detection	RMS
	Trace Point	501
	Filter Type	Rect
	Offset-1 Start Freq	2.515 MHz
	Offset-2 Start Freq	4 MHz
	Offset-3 Start Freq	7.9997 MHz
	Offset-1 Stop Freq	3.485 MHz
	Offset-2 Stop Freq	7 MHz
	Offset-3 Stop Freq	8 MHz
	Offset-1/2/3 Reference Level	Auto
	Offset-1 RBW	30 kHz
	Offset-2 RBW	1 MHz
	Offset-3 RBW	1 MHz
	Offset-1 Sweep Time	400 ms
	Offset-2 Sweep Time	40 ms
	Offset-3 Sweep Time	10 ms
	Offset-1 Auto Sweep Time Select	Normal
	Offset-2 Auto Sweep Time Select	Normal
	Offset-3 Auto Sweep Time Select	Normal
	Offset-1 Detection	RMS
	Offset-2 Detection	RMS
	Offset-3 Detection	RMS
	Offset-1 Trace Point	401
	Offset-2 Trace Point	41
	Offset-3 Trace Point	11
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto
	Offset-3 Integrate BW	Auto

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
LTE Uplink (General 5MHz) LTE TDD Uplink (General 5MHz) (Cont'd)	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	Off
	Offset-5 On/Off	Off
	Offset-6 On/Off	Off
	Limit-1 ABS1 Start Level	–13.5 dBm
	Limit-2 ABS1 Start Level	–8.5 dBm
	Limit-3 ABS1 Start Level	–11.5 dBm
	Limit-1 ABS1 Stop Level	–13.5 dBm
	Limit-2 ABS1 Stop Level	–8.5 dBm
	Limit-3 ABS1 Stop Level	–11.5 dBm
	Limit-1 Fail Logic	ABS1
	Limit-2 Fail Logic	ABS1
	Limit-3 Fail Logic	ABS1
	Limit-4 Fail Logic	Off
	Limit-5 Fail Logic	Off
	Limit-6 Fail Logic	Off

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
LTE Uplink (General 10MHz) LTE TDD Uplink (General 10MHz)	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Channel
	Channel BW	10 MHz
	RBW	300 kHz
	Sweep Time	400 ms
	Auto Sweep Time Select	Normal
	Detection	RMS
	Trace Point	401
	Filter Type	Rect
	Offset-1 Start Freq	5.015 MHz
	Offset-2 Start Freq	6 5 MHz
	Offset-3 Start Freq	10.5 MHz
	Offset-1 Stop Freq	5.985 MHz
	Offset-2 Stop Freq	9.5 MHz
	Offset-3 Stop Freq	14.5 MHz
	Offset-1/2/3 Reference Level	Auto
	Offset-1 RBW	30 kHz
	Offset-2 RBW	1 MHz
	Offset-3 RBW	1 MHz
	Offset-1 Sweep Time	400 ms
	Offset-2 Sweep Time	40 ms
	Offset-3 Sweep Time	40 ms
	Offset-1 Auto Sweep Time Select	Normal
	Offset-2 Auto Sweep Time Select	Normal
	Offset-3 Auto Sweep Time Select	Normal
	Offset-1 Detection	RMS
	Offset-2 Detection	RMS
	Offset-3 Detection	RMS
	Offset-1 Trace Point	401
	Offset-2 Trace Point	41
	Offset-3 Trace Point	41
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto
	Offset-3 Integrate BW	Auto

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
LTE Uplink (General 10MHz) LTE TDD Uplink (General 10MHz) (Cont'd)	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	Off
	Offset-5 On/Off	Off
	Offset-6 On/Off	Off
	Limit-1 ABS1 Start Level	–16.5 dBm
	Limit-2 ABS1 Start Level	–8.5 dBm
	Limit-3 ABS1 Start Level	–11.5 dBm
	Limit-1 ABS1 Stop Level	–16.5 dBm
	Limit-2 ABS1 Stop Level	–8.5 dBm
	Limit-3 ABS1 Stop Level	–11.5 dBm
	Limit-1 Fail Logic	ABS1
	Limit-2 Fail Logic	ABS1
	Limit-3 Fail Logic	ABS1
	Limit-4 Fail Logic	Off
	Limit-5 Fail Logic	Off
	Limit-6 Fail Logic	Off

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
LTE Uplink (General 15MHz) LTE TDD Uplink (General 15MHz)	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Channel
	Channel BW	15 MHz
	RBW	300 kHz
	Sweep Time	500 ms
	Auto Sweep Time Select	Normal
	Detection	RMS
	Trace Point	501
	Filter Type	Rect
	Offset-1 Start Freq	7.515 MHz
	Offset-2 Start Freq	9 MHz
	Offset-3 Start Freq	13 MHz
	Offset-1 Stop Freq	8.485 MHz
	Offset-2 Stop Freq	12 MHz
	Offset-3 Stop Freq	22 MHz
	Offset-1/2/3 Reference Level	Auto
	Offset-1 RBW	30 kHz
	Offset-2 RBW	1 MHz
	Offset-3 RBW	1 MHz
	Offset-1 Sweep Time	400 ms
	Offset-2 Sweep Time	40 ms
	Offset-3 Sweep Time	100 ms
	Offset-1 Auto Sweep Time Select	Normal
	Offset-2 Auto Sweep Time Select	Normal
	Offset-3 Auto Sweep Time Select	Normal
	Offset-1 Detection	RMS
	Offset-2 Detection	RMS
	Offset-3 Detection	RMS
	Offset-1 Trace Point	401
	Offset-2 Trace Point	41
	Offset-3 Trace Point	101
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto
	Offset-3 Integrate BW	Auto

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
LTE Uplink (General 15MHz) LTE TDD Uplink (General 15MHz) (Cont'd)	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	Off
	Offset-5 On/Off	Off
	Offset-6 On/Off	Off
	Limit-1 ABS1 Start Level	–18.5 dBm
	Limit-2 ABS1 Start Level	–8.5 dBm
	Limit-3 ABS1 Start Level	–11.5 dBm
	Limit-1 ABS1 Stop Level	–18.5 dBm
	Limit-2 ABS1 Stop Level	–8.5 dBm
	Limit-3 ABS1 Stop Level	–11.5 dBm
	Limit-1 Fail Logic	ABS1
	Limit-2 Fail Logic	ABS1
	Limit-3 Fail Logic	ABS1
	Limit-4 Fail Logic	Off
	Limit-5 Fail Logic	Off
	Limit-6 Fail Logic	Off

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
LTE Uplink (General 20MHz) LTE TDD Uplink (General 20MHz)	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Channel
	Channel BW	20 MHz
	RBW	300 kHz
	Sweep Time	1000 ms
	Auto Sweep Time Select	Normal
	Detection	RMS
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	10.015 MHz
	Offset-2 Start Freq	11.5 MHz
	Offset-3 Start Freq	15.5 MHz
	Offset-1 Stop Freq	10.985 MHz
	Offset-2 Stop Freq	14.5 MHz
	Offset-3 Stop Freq	29.5 MHz
	Offset-1/2/3 Reference Level	Auto
	Offset-1 RBW	30 kHz
	Offset-2 RBW	1 MHz
	Offset-3 RBW	1 MHz
	Offset-1 Sweep Time	400 ms
	Offset-2 Sweep Time	40 ms
	Offset-3 Sweep Time	200 ms
	Offset-1 Auto Sweep Time Select	Normal
	Offset-2 Auto Sweep Time Select	Normal
	Offset-3 Auto Sweep Time Select	Normal
	Offset-1 Detection	RMS
	Offset-2 Detection	RMS
	Offset-3 Detection	RMS
	Offset-1 Trace Point	401
	Offset-2 Trace Point	41
	Offset-3 Trace Point	201
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto
	Offset-3 Integrate BW	Auto

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
LTE Uplink (General 20MHz) LTE TDD Uplink (General 20MHz) (Cont'd)	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	Off
	Offset-5 On/Off	Off
	Offset-6 On/Off	Off
	Limit-1 ABS1 Start Level	–19.5 dBm
	Limit-2 ABS1 Start Level	–8.5 dBm
	Limit-3 ABS1 Start Level	–11.5 dBm
	Limit-1 ABS1 Stop Level	–19.5 dBm
	Limit-2 ABS1 Stop Level	–8.5 dBm
	Limit-3 ABS1 Stop Level	–11.5 dBm
	Limit-1 Fail Logic	ABS1
	Limit-2 Fail Logic	ABS1
	Limit-3 Fail Logic	ABS1
	Limit-4 Fail Logic	Off
	Limit-5 Fail Logic	Off
	Limit-6 Fail Logic	Off

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
LTE Uplink (NS-03 1.4MHz) LTE TDD Uplink (NS-03 1.4MHz)	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Channel
	Channel BW	1.4 MHz
	RBW	30 kHz
	Sweep Time	500 ms
	Auto Sweep Time Select	Normal
	Detection	RMS
	Trace Point	501
	Filter Type	Rect
	Offset-1 Start Freq	0.715 MHz
	Offset-2 Start Freq	2.2 MHz
	Offset-3 Start Freq	3.7 MHz
	Offset-1 Stop Freq	1.685 MHz
	Offset-2 Stop Freq	2.7 MHz
	Offset-3 Stop Freq	5.2 MHz
	Offset-1/2/3 Reference Level	Auto
	Offset-1 RBW	30 kHz
	Offset-2 RBW	1 MHz
	Offset-3 RBW	1 MHz
	Offset-1 Sweep Time	400 ms
	Offset-2 Sweep Time	10 ms
	Offset-3 Sweep Time	20 ms
	Offset-1 Auto Sweep Time Select	Normal
	Offset-2 Auto Sweep Time Select	Normal
	Offset-3 Auto Sweep Time Select	Normal
	Offset-1 Detection	RMS
	Offset-2 Detection	RMS
	Offset-3 Detection	RMS
	Offset-1 Trace Point	401
	Offset-2 Trace Point	11
	Offset-3 Trace Point	21
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto
	Offset-3 Integrate BW	Auto

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
LTE Uplink (NS-03 1.4MHz) LTE TDD Uplink (NS-03 1.4MHz) (Cont'd)	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	Off
	Offset-5 On/Off	Off
	Offset-6 On/Off	Off
	Limit-1 ABS1 Start Level	–8.5 dBm
	Limit-2 ABS1 Start Level	–11.5 dBm
	Limit-3 ABS1 Start Level	–23.5 dBm
	Limit-1 ABS1 Stop Level	–8.5 dBm
	Limit-2 ABS1 Stop Level	–11.5 dBm
	Limit-3 ABS1 Stop Level	–23.5 dBm
	Limit-1 Fail Logic	ABS1
	Limit-2 Fail Logic	ABS1
	Limit-3 Fail Logic	ABS1
	Limit-4 Fail Logic	Off
	Limit-5 Fail Logic	Off
	Limit-6 Fail Logic	Off

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
LTE Uplink (NS-03 3MHz) LTE TDD Uplink (NS-03 3MHz)	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Channel
	Channel BW	3 MHz
	RBW	30 kHz
	Sweep Time	1000 ms
	Auto Sweep Time Select	Normal
	Detection	RMS
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	1.515 MHz
	Offset-2 Start Freq	3 MHz
	Offset-3 Start Freq	6.699700 MHz
	Offset-1 Stop Freq	2.485 MHz
	Offset-2 Stop Freq	6 MHz
	Offset-3 Stop Freq	7 MHz
	Offset-1/2/3 Reference Level	Auto
	Offset-1 RBW	30 kHz
	Offset-2 RBW	1 MHz
	Offset-3 RBW	1 MHz
	Offset-1 Sweep Time	100 ms
	Offset-2 Sweep Time	40 ms
	Offset-3 Sweep Time	10 ms
	Offset-1 Auto Sweep Time Select	Normal
	Offset-2 Auto Sweep Time Select	Normal
	Offset-3 Auto Sweep Time Select	Normal
	Offset-1 Detection	RMS
	Offset-2 Detection	RMS
	Offset-3 Detection	RMS
	Offset-1 Trace Point	101
	Offset-2 Trace Point	41
	Offset-3 Trace Point	11
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto
	Offset-3 Integrate BW	Auto

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
LTE Uplink (NS-03 3MHz) LTE TDD Uplink (NS-03 3MHz) (Cont'd)	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	Off
	Offset-5 On/Off	Off
	Offset-6 On/Off	Off
	Limit-1 ABS1 Start Level	–11.5 dBm
	Limit-2 ABS1 Start Level	–11.5 dBm
	Limit-3 ABS1 Start Level	–23.5 dBm
	Limit-1 ABS1 Stop Level	–11.5 dBm
	Limit-2 ABS1 Stop Level	–11.5 dBm
	Limit-3 ABS1 Stop Level	–23.5 dBm
	Limit-1 Fail Logic	ABS1
	Limit-2 Fail Logic	ABS1
	Limit-3 Fail Logic	ABS1
	Limit-4 Fail Logic	Off
	Limit-5 Fail Logic	Off
	Limit-6 Fail Logic	Off

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
LTE Uplink (NS-03 5MHz) LTE TDD Uplink (NS-03 5MHz)	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Channel
	Channel BW	5 MHz
	RBW	100 kHz
	Sweep Time	500 ms
	Auto Sweep Time Select	Normal
	Detection	RMS
	Trace Point	501
	Filter Type	Rect
	Offset-1 Start Freq	2.515 MHz
	Offset-2 Start Freq	4 MHz
	Offset-3 Start Freq	7.9997 MHz
	Offset-1 Stop Freq	3.485 MHz
	Offset-2 Stop Freq	7 MHz
	Offset-3 Stop Freq	8 MHz
	Offset-1/2/3 Reference Level	Auto
	Offset-1 RBW	30 kHz
	Offset-2 RBW	1 MHz
	Offset-3 RBW	1 MHz
	Offset-1 Sweep Time	400 ms
	Offset-2 Sweep Time	40 ms
	Offset-3 Sweep Time	10 ms
	Offset-1 Auto Sweep Time Select	Normal
	Offset-2 Auto Sweep Time Select	Normal
	Offset-3 Auto Sweep Time Select	Normal
	Offset-1 Detection	RMS
	Offset-2 Detection	RMS
	Offset-3 Detection	RMS
	Offset-1 Trace Point	401
	Offset-2 Trace Point	41
	Offset-3 Trace Point	11
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto
	Offset-3 Integrate BW	Auto

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
LTE Uplink (NS-03 5MHz) LTE TDD Uplink (NS-03 5MHz) (Cont'd)	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	Off
	Offset-5 On/Off	Off
	Offset-6 On/Off	Off
	Limit-1 ABS1 Start Level	–11.5 dBm
	Limit-2 ABS1 Start Level	–11.5 dBm
	Limit-3 ABS1 Start Level	–23.5 dBm
	Limit-1 ABS1 Stop Level	–11.5 dBm
	Limit-2 ABS1 Stop Level	–11.5 dBm
	Limit-3 ABS1 Stop Level	–23.5 dBm
	Limit-1 Fail Logic	ABS1
	Limit-2 Fail Logic	ABS1
	Limit-3 Fail Logic	ABS1
	Limit-4 Fail Logic	Off
	Limit-5 Fail Logic	Off
	Limit-6 Fail Logic	Off

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
LTE Uplink (NS-03 10MHz) LTE TDD Uplink (NS-03 10MHz)	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Channel
	Channel BW	10 MHz
	RBW	300 kHz
	Sweep Time	400 ms
	Auto Sweep Time Select	Normal
	Detection	RMS
	Trace Point	401
	Filter Type	Rect
	Offset-1 Start Freq	5.015 MHz
	Offset-2 Start Freq	6 5 MHz
	Offset-3 Start Freq	15.5 MHz
	Offset-1 Stop Freq	5.985 MHz
	Offset-2 Stop Freq	14.5 MHz
	Offset-3 Stop Freq	19.5 MHz
	Offset-1/2/3 Reference Level	Auto
	Offset-1 RBW	30 kHz
	Offset-2 RBW	1 MHz
	Offset-3 RBW	1 MHz
	Offset-1 Sweep Time	400 ms
	Offset-2 Sweep Time	100 ms
	Offset-3 Sweep Time	40 ms
	Offset-1 Auto Sweep Time Select	Normal
	Offset-2 Auto Sweep Time Select	Normal
	Offset-3 Auto Sweep Time Select	Normal
	Offset-1 Detection	RMS
	Offset-2 Detection	RMS
	Offset-3 Detection	RMS
	Offset-1 Trace Point	401
	Offset-2 Trace Point	101
	Offset-3 Trace Point	41
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto
	Offset-3 Integrate BW	Auto

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
LTE Uplink (NS-03 10MHz) LTE TDD Uplink (NS-03 10MHz) (Cont'd)	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	Off
	Offset-5 On/Off	Off
	Offset-6 On/Off	Off
	Limit-1 ABS1 Start Level	–16.5 dBm
	Limit-2 ABS1 Start Level	–11.5 dBm
	Limit-3 ABS1 Start Level	–23.5 dBm
	Limit-1 ABS1 Stop Level	–16.5 dBm
	Limit-2 ABS1 Stop Level	–11.5 dBm
	Limit-3 ABS1 Stop Level	–23.5 dBm
	Limit-1 Fail Logic	ABS1
	Limit-2 Fail Logic	ABS1
	Limit-3 Fail Logic	ABS1
	Limit-4 Fail Logic	Off
	Limit-5 Fail Logic	Off
	Limit-6 Fail Logic	Off

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
LTE Uplink (NS-03 15MHz) LTE TDD Uplink (NS-03 15MHz)	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Channel
	Channel BW	15 MHz
	RBW	300 kHz
	Sweep Time	500 ms
	Auto Sweep Time Select	Normal
	Detection	RMS
	Trace Point	501
	Filter Type	Rect
	Offset-1 Start Freq	7.515 MHz
	Offset-2 Start Freq	9 MHz
	Offset-3 Start Freq	23 MHz
	Offset-1 Stop Freq	8.485 MHz
	Offset-2 Stop Freq	22 MHz
	Offset-3 Stop Freq	27 MHz
	Offset-1/2/3 Reference Level	Auto
	Offset-1 RBW	30 kHz
	Offset-2 RBW	1 MHz
	Offset-3 RBW	1 MHz
	Offset-1 Sweep Time	400 ms
	Offset-2 Sweep Time	200 ms
	Offset-3 Sweep Time	40 ms
	Offset-1 Auto Sweep Time Select	Normal
	Offset-2 Auto Sweep Time Select	Normal
	Offset-3 Auto Sweep Time Select	Normal
	Offset-1 Detection	RMS
	Offset-2 Detection	RMS
	Offset-3 Detection	RMS
	Offset-1 Trace Point	401
	Offset-2 Trace Point	201
	Offset-3 Trace Point	41
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto
	Offset-3 Integrate BW	Auto

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
LTE Uplink (NS-03 15MHz) LTE TDD Uplink (NS-03 15MHz) (Cont'd)	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	Off
	Offset-5 On/Off	Off
	Offset-6 On/Off	Off
	Limit-1 ABS1 Start Level	–18.5 dBm
	Limit-2 ABS1 Start Level	–11.5 dBm
	Limit-3 ABS1 Start Level	–23.5 dBm
	Limit-1 ABS1 Stop Level	–18.5 dBm
	Limit-2 ABS1 Stop Level	–11.5 dBm
	Limit-3 ABS1 Stop Level	–23.5 dBm
	Limit-1 Fail Logic	ABS1
	Limit-2 Fail Logic	ABS1
	Limit-3 Fail Logic	ABS1
	Limit-4 Fail Logic	Off
	Limit-5 Fail Logic	Off
	Limit-6 Fail Logic	Off

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
LTE Uplink (NS-03 20MHz) LTE TDD Uplink (NS-03 20MHz)	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Channel
	Channel BW	20 MHz
	RBW	300 kHz
	Sweep Time	1000 ms
	Auto Sweep Time Select	Normal
	Detection	RMS
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	10.015 MHz
	Offset-2 Start Freq	11.5 MHz
	Offset-3 Start Freq	30.5 MHz
	Offset-1 Stop Freq	10.985 MHz
	Offset-2 Stop Freq	29.5 MHz
	Offset-3 Stop Freq	34.5 MHz
	Offset-1/2/3 Reference Level	Auto
	Offset-1 RBW	30 kHz
	Offset-2 RBW	1 MHz
	Offset-3 RBW	1 MHz
	Offset-1 Sweep Time	400 ms
	Offset-2 Sweep Time	200 ms
	Offset-3 Sweep Time	40 ms
	Offset-1 Auto Sweep Time Select	Normal
	Offset-2 Auto Sweep Time Select	Normal
	Offset-3 Auto Sweep Time Select	Normal
	Offset-1 Detection	RMS
	Offset-2 Detection	RMS
	Offset-3 Detection	RMS
	Offset-1 Trace Point	401
	Offset-2 Trace Point	201
	Offset-3 Trace Point	41
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto
	Offset-3 Integrate BW	Auto

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
LTE Uplink (NS-03 20MHz) LTE TDD Uplink (NS-03 20MHz) (Cont'd)	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	Off
	Offset-5 On/Off	Off
	Offset-6 On/Off	Off
	Limit-1 ABS1 Start Level	–19.5 dBm
	Limit-2 ABS1 Start Level	–11.5 dBm
	Limit-3 ABS1 Start Level	–23.5 dBm
	Limit-1 ABS1 Stop Level	–19.5 dBm
	Limit-2 ABS1 Stop Level	–11.5 dBm
	Limit-3 ABS1 Stop Level	–23.5 dBm
	Limit-1 Fail Logic	ABS1
	Limit-2 Fail Logic	ABS1
	Limit-3 Fail Logic	ABS1
	Limit-4 Fail Logic	Off
	Limit-5 Fail Logic	Off
	Limit-6 Fail Logic	Off

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
LTE Uplink (NS-04 1.4MHz) LTE TDD Uplink (NS-04 1.4MHz)	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Channel
	Channel BW	1.4 MHz
	RBW	30 kHz
	Sweep Time	500 ms
	Auto Sweep Time Select	Normal
	Detection	RMS
	Trace Point	501
	Filter Type	Rect
	Offset-1 Start Freq	0.715 MHz
	Offset-2 Start Freq	2.2 MHz
	Offset-3 Start Freq	3.7 MHz
	Offset-1 Stop Freq	1.685 MHz
	Offset-2 Stop Freq	2.7 MHz
	Offset-3 Stop Freq	5.2 MHz
	Offset-1/2/3 Reference Level	Auto
	Offset-1 RBW	30 kHz
	Offset-2 RBW	1 MHz
	Offset-3 RBW	1 MHz
	Offset-1 Sweep Time	400 ms
	Offset-2 Sweep Time	10 ms
	Offset-3 Sweep Time	20 ms
	Offset-1 Auto Sweep Time Select	Normal
	Offset-2 Auto Sweep Time Select	Normal
	Offset-3 Auto Sweep Time Select	Normal
	Offset-1 Detection	RMS
	Offset-2 Detection	RMS
	Offset-3 Detection	RMS
	Offset-1 Trace Point	401
	Offset-2 Trace Point	11
	Offset-3 Trace Point	21
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto
	Offset-3 Integrate BW	Auto

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
LTE Uplink (NS-04 1.4MHz) LTE TDD Uplink (NS-04 1.4MHz) (Cont'd)	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	Off
	Offset-5 On/Off	Off
	Offset-6 On/Off	Off
	Limit-1 ABS1 Start Level	–8.5 dBm
	Limit-2 ABS1 Start Level	–11.5 dBm
	Limit-3 ABS1 Start Level	–23.5 dBm
	Limit-1 ABS1 Stop Level	–8.5 dBm
	Limit-2 ABS1 Stop Level	–11.5 dBm
	Limit-3 ABS1 Stop Level	–23.5 dBm
	Limit-1 Fail Logic	ABS1
	Limit-2 Fail Logic	ABS1
	Limit-3 Fail Logic	ABS1
	Limit-4 Fail Logic	Off
	Limit-5 Fail Logic	Off
	Limit-6 Fail Logic	Off

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
LTE Uplink (NS-04 3MHz) LTE TDD Uplink (NS-04 3MHz)	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Channel
	Channel BW	3 MHz
	RBW	30 kHz
	Sweep Time	1000 ms
	Auto Sweep Time Select	Normal
	Detection	RMS
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	1.515 MHz
	Offset-2 Start Freq	3 MHz
	Offset-3 Start Freq	6.699700 MHz
	Offset-1 Stop Freq	2.485 MHz
	Offset-2 Stop Freq	6 MHz
	Offset-3 Stop Freq	7 MHz
	Offset-1/2/3 Reference Level	Auto
	Offset-1 RBW	30 kHz
	Offset-2 RBW	1 MHz
	Offset-3 RBW	1 MHz
	Offset-1 Sweep Time	400 ms
	Offset-2 Sweep Time	40 ms
	Offset-3 Sweep Time	10 ms
	Offset-1 Auto Sweep Time Select	Normal
	Offset-2 Auto Sweep Time Select	Normal
	Offset-3 Auto Sweep Time Select	Normal
	Offset-1 Detection	RMS
	Offset-2 Detection	RMS
	Offset-3 Detection	RMS
	Offset-1 Trace Point	401
	Offset-2 Trace Point	41
	Offset-3 Trace Point	11
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto
	Offset-3 Integrate BW	Auto

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
LTE Uplink (NS-04 3MHz) LTE TDD Uplink (NS-04 3MHz) (Cont'd)	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	Off
	Offset-5 On/Off	Off
	Offset-6 On/Off	Off
	Limit-1 ABS1 Start Level	–11.5 dBm
	Limit-2 ABS1 Start Level	–11.5 dBm
	Limit-3 ABS1 Start Level	–23.5 dBm
	Limit-1 ABS1 Stop Level	–11.5 dBm
	Limit-2 ABS1 Stop Level	–11.5 dBm
	Limit-3 ABS1 Stop Level	–23.5 dBm
	Limit-1 Fail Logic	ABS1
	Limit-2 Fail Logic	ABS1
	Limit-3 Fail Logic	ABS1
	Limit-4 Fail Logic	Off
	Limit-5 Fail Logic	Off
	Limit-6 Fail Logic	Off

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
LTE Uplink (NS-04 5MHz) LTE TDD Uplink (NS-04 5MHz)	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Channel
	Channel BW	5 MHz
	RBW	100 kHz
	Sweep Time	500 ms
	Auto Sweep Time Select	Normal
	Detection	RMS
	Trace Point	501
	Filter Type	Rect
	Offset-1 Start Freq	2.515 MHz
	Offset-2 Start Freq	4 MHz
	Offset-3 Start Freq	8 MHz
	Offset-1 Stop Freq	3.485 MHz
	Offset-2 Stop Freq	7 MHz
	Offset-3 Stop Freq	12 MHz
	Offset-1/2/3 Reference Level	Auto
	Offset-1 RBW	30 kHz
	Offset-2 RBW	1 MHz
	Offset-3 RBW	1 MHz
	Offset-1 Sweep Time	400 ms
	Offset-2 Sweep Time	40 ms
	Offset-3 Sweep Time	40 ms
	Offset-1 Auto Sweep Time Select	Normal
	Offset-2 Auto Sweep Time Select	Normal
	Offset-3 Auto Sweep Time Select	Normal
	Offset-1 Detection	RMS
	Offset-2 Detection	RMS
	Offset-3 Detection	RMS
	Offset-1 Trace Point	401
	Offset-2 Trace Point	41
	Offset-3 Trace Point	41
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto
	Offset-3 Integrate BW	Auto

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
LTE Uplink (NS-04 5MHz) LTE TDD Uplink (NS-04 5MHz) (Cont'd)	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	Off
	Offset-5 On/Off	Off
	Offset-6 On/Off	Off
	Limit-1 ABS1 Start Level	–13.5 dBm
	Limit-2 ABS1 Start Level	–11.5 dBm
	Limit-3 ABS1 Start Level	–23.5 dBm
	Limit-1 ABS1 Stop Level	–13.5 dBm
	Limit-2 ABS1 Stop Level	–11.5 dBm
	Limit-3 ABS1 Stop Level	–23.5 dBm
	Limit-1 Fail Logic	ABS1
	Limit-2 Fail Logic	ABS1
	Limit-3 Fail Logic	ABS1
	Limit-4 Fail Logic	Off
	Limit-5 Fail Logic	Off
	Limit-6 Fail Logic	Off

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
LTE Uplink (NS-04 10MHz) LTE TDD Uplink (NS-04 10MHz)	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Channel
	Channel BW	10 MHz
	RBW	300 kHz
	Sweep Time	400 ms
	Auto Sweep Time Select	Normal
	Detection	RMS
	Trace Point	401
	Filter Type	Rect
	Offset-1 Start Freq	5.015 MHz
	Offset-2 Start Freq	6 5 MHz
	Offset-3 Start Freq	10.5 MHz
	Offset-1 Stop Freq	5.985 MHz
	Offset-2 Stop Freq	9.5 MHz
	Offset-3 Stop Freq	19.5 MHz
	Offset-1/2/3 Reference Level	Auto
	Offset-1 RBW	30 kHz
	Offset-2 RBW	1 MHz
	Offset-3 RBW	1 MHz
	Offset-1 Sweep Time	400 ms
	Offset-2 Sweep Time	100 ms
	Offset-3 Sweep Time	40 ms
	Offset-1 Auto Sweep Time Select	Normal
	Offset-2 Auto Sweep Time Select	Normal
	Offset-3 Auto Sweep Time Select	Normal
	Offset-1 Detection	RMS
	Offset-2 Detection	RMS
	Offset-3 Detection	RMS
	Offset-1 Trace Point	401
	Offset-2 Trace Point	101
	Offset-3 Trace Point	41
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto
	Offset-3 Integrate BW	Auto

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
LTE Uplink (NS-04 10MHz) LTE TDD Uplink (NS-04 10MHz) (Cont'd)	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	Off
	Offset-5 On/Off	Off
	Offset-6 On/Off	Off
	Limit-1 ABS1 Start Level	–16.5 dBm
	Limit-2 ABS1 Start Level	–11.5 dBm
	Limit-3 ABS1 Start Level	–23.5 dBm
	Limit-1 ABS1 Stop Level	–16.5 dBm
	Limit-2 ABS1 Stop Level	–11.5 dBm
	Limit-3 ABS1 Stop Level	–23.5 dBm
	Limit-1 Fail Logic	ABS1
	Limit-2 Fail Logic	ABS1
	Limit-3 Fail Logic	ABS1
	Limit-4 Fail Logic	Off
	Limit-5 Fail Logic	Off
	Limit-6 Fail Logic	Off

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
LTE Uplink (NS-04 15MHz) LTE TDD Uplink (NS-04 15MHz)	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Channel
	Channel BW	15 MHz
	RBW	300 kHz
	Sweep Time	500 ms
	Auto Sweep Time Select	Normal
	Detection	RMS
	Trace Point	501
	Filter Type	Rect
	Offset-1 Start Freq	7.515 MHz
	Offset-2 Start Freq	9 MHz
	Offset-3 Start Freq	13 MHz
	Offset-1 Stop Freq	8.485 MHz
	Offset-2 Stop Freq	12 MHz
	Offset-3 Stop Freq	27 MHz
	Offset-1/2/3 Reference Level	Auto
	Offset-1 RBW	30 kHz
	Offset-2 RBW	1 MHz
	Offset-3 RBW	1 MHz
	Offset-1 Sweep Time	400 ms
	Offset-2 Sweep Time	200 ms
	Offset-3 Sweep Time	40 ms
	Offset-1 Auto Sweep Time Select	Normal
	Offset-2 Auto Sweep Time Select	Normal
	Offset-3 Auto Sweep Time Select	Normal
	Offset-1 Detection	RMS
	Offset-2 Detection	RMS
	Offset-3 Detection	RMS
	Offset-1 Trace Point	401
	Offset-2 Trace Point	201
	Offset-3 Trace Point	41
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto
	Offset-3 Integrate BW	Auto

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
LTE Uplink (NS-04 15MHz) LTE TDD Uplink (NS-04 15MHz) (Cont'd)	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	Off
	Offset-5 On/Off	Off
	Offset-6 On/Off	Off
	Limit-1 ABS1 Start Level	–18.5 dBm
	Limit-2 ABS1 Start Level	–11.5 dBm
	Limit-3 ABS1 Start Level	–23.5 dBm
	Limit-1 ABS1 Stop Level	–18.5 dBm
	Limit-2 ABS1 Stop Level	–11.5 dBm
	Limit-3 ABS1 Stop Level	–23.5 dBm
	Limit-1 Fail Logic	ABS1
	Limit-2 Fail Logic	ABS1
	Limit-3 Fail Logic	ABS1
	Limit-4 Fail Logic	Off
	Limit-5 Fail Logic	Off
	Limit-6 Fail Logic	Off

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
LTE Uplink (NS-04 20MHz) LTE TDD Uplink (NS-04 20MHz)	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Channel
	Channel BW	20 MHz
	RBW	300 kHz
	Sweep Time	1000 ms
	Auto Sweep Time Select	Normal
	Detection	RMS
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	10.015 MHz
	Offset-2 Start Freq	11.5 MHz
	Offset-3 Start Freq	15.5 MHz
	Offset-1 Stop Freq	10.985 MHz
	Offset-2 Stop Freq	14.5 MHz
	Offset-3 Stop Freq	34.5 MHz
	Offset-1/2/3 Reference Level	Auto
	Offset-1 RBW	30 kHz
	Offset-2 RBW	1 MHz
	Offset-3 RBW	1 MHz
	Offset-1 Sweep Time	400 ms
	Offset-2 Sweep Time	200 ms
	Offset-3 Sweep Time	40 ms
	Offset-1 Auto Sweep Time Select	Normal
	Offset-2 Auto Sweep Time Select	Normal
	Offset-3 Auto Sweep Time Select	Normal
	Offset-1 Detection	RMS
	Offset-2 Detection	RMS
	Offset-3 Detection	RMS
	Offset-1 Trace Point	401
	Offset-2 Trace Point	201
	Offset-3 Trace Point	41
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto
	Offset-3 Integrate BW	Auto

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
LTE Uplink (NS-04 20MHz) LTE TDD Uplink (NS-04 20MHz) (Cont'd)	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	Off
	Offset-5 On/Off	Off
	Offset-6 On/Off	Off
	Limit-1 ABS1 Start Level	–19.5 dBm
	Limit-2 ABS1 Start Level	–11.5 dBm
	Limit-3 ABS1 Start Level	–23.5 dBm
	Limit-1 ABS1 Stop Level	–19.5 dBm
	Limit-2 ABS1 Stop Level	–11.5 dBm
	Limit-3 ABS1 Stop Level	–23.5 dBm
	Limit-1 Fail Logic	ABS1
	Limit-2 Fail Logic	ABS1
	Limit-3 Fail Logic	ABS1
	Limit-4 Fail Logic	Off
	Limit-5 Fail Logic	Off
	Limit-6 Fail Logic	Off

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
LTE Uplink (NS-06/07 1.4MHz) LTE TDD Uplink (NS-06/07 1.4MHz)	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Channel
	Channel BW	1.4 MHz
	RBW	30 kHz
	Sweep Time	500 ms
	Auto Sweep Time Select	Normal
	Detection	RMS
	Trace Point	501
	Filter Type	Rect
	Offset-1 Start Freq	0.715 MHz
	Offset-2 Start Freq	0.850 MHz
	Offset-3 Start Freq	2.2 MHz
	Offset-4 Start Freq	3.7 MHz
	Offset-1 Stop Freq	0.785 MHz
	Offset-2 Stop Freq	1.65 MHz
	Offset-3 Stop Freq	2.7 MHz
	Offset-4 Stop Freq	5.2 MHz
	Offset-1/2/3/4 Reference Level	Auto
	Offset-1 RBW	30 kHz
	Offset-2 RBW	100 kHz
	Offset-3 RBW	1 MHz
	Offset-4 RBW	1 MHz
	Offset-1 Sweep Time	400 ms
	Offset-2 Sweep Time	100 ms
	Offset-3 Sweep Time	50 ms
	Offset-4 Sweep Time	200 ms
	Offset-1/2/3/4 Auto Sweep Time Select	Normal
	Offset-1 Detection	RMS
	Offset-2 Detection	RMS
	Offset-3 Detection	RMS
	Offset-4 Detection	RMS
	Offset-1 Trace Point	401
	Offset-2 Trace Point	101
	Offset-3 Trace Point	51
	Offset-4 Trace Point	201

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
LTE Uplink (NS-06/07 1.4MHz) LTE TDD Uplink (NS-06/07 1.4MHz) (Cont'd)	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto
	Offset-3 Integrate BW	Auto
	Offset-4 Integrate BW	Auto
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	On
	Offset-5 On/Off	Off
	Offset-6 On/Off	Off
	Limit-1 ABS1 Start Level	–11.5 dBm
	Limit-2 ABS1 Start Level	–11.5 dBm
	Limit-3 ABS1 Start Level	–11.5 dBm
	Limit-4 ABS1 Start Level	–23.5 dBm
	Limit-1 ABS1 Stop Level	–11.5 dBm
	Limit-2 ABS1 Stop Level	–11.5 dBm
	Limit-3 ABS1 Stop Level	–11.5 dBm
	Limit-4 ABS1 Stop Level	–23.5 dBm
	Limit-1 Fail Logic	ABS1
	Limit-2 Fail Logic	ABS1
	Limit-3 Fail Logic	ABS1
	Limit-4 Fail Logic	ABS1
	Limit-5 Fail Logic	Off
	Limit-6 Fail Logic	Off

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
LTE Uplink (NS-06/07 3MHz) LTE TDD Uplink (NS-06/07 3MHz)	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Channel
	Channel BW	3 MHz
	RBW	30 kHz
	Sweep Time	1000 ms
	Auto Sweep Time Select	Normal
	Detection	RMS
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	1.515 MHz
	Offset-2 Start Freq	1.650 MHz
	Offset-3 Start Freq	3 MHz
	Offset-4 Start Freq	6.9997 MHz
	Offset-1 Stop Freq	1.585 MHz
	Offset-2 Stop Freq	2.45 MHz
	Offset-3 Stop Freq	6 MHz
	Offset-4 Stop Freq	7 MHz
	Offset-1/2/3/4 Reference Level	Auto
	Offset-1 RBW	30 kHz
	Offset-2 RBW	100 kHz
	Offset-3 RBW	1 MHz
	Offset-4 RBW	1 MHz
	Offset-1 Sweep Time	400 ms
	Offset-2 Sweep Time	100 ms
	Offset-3 Sweep Time	40 ms
	Offset-4 Sweep Time	10 ms
	Offset-1/2/3/4 Auto Sweep Time Select	Normal
	Offset-1 Detection	RMS
	Offset-2 Detection	RMS
	Offset-3 Detection	RMS
	Offset-4 Detection	RMS
	Offset-1 Trace Point	401
	Offset-2 Trace Point	101
	Offset-3 Trace Point	41
	Offset-4 Trace Point	11

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
LTE Uplink (NS-06/07 3MHz) LTE TDD Uplink (NS-06/07 3MHz) (Cont'd)	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto
	Offset-3 Integrate BW	Auto
	Offset-4 Integrate BW	Auto
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	On
	Offset-5 On/Off	Off
	Offset-6 On/Off	Off
	Limit-1 ABS1 Start Level	–11.5 dBm
	Limit-2 ABS1 Start Level	–11.5 dBm
	Limit-3 ABS1 Start Level	–11.5 dBm
	Limit-4 ABS1 Start Level	–23.5 dBm
	Limit-1 ABS1 Stop Level	–11.5 dBm
	Limit-2 ABS1 Stop Level	–11.5 dBm
	Limit-3 ABS1 Stop Level	–11.5 dBm
	Limit-4 ABS1 Stop Level	–23.5 dBm
	Limit-1 Fail Logic	ABS1
	Limit-2 Fail Logic	ABS1
	Limit-3 Fail Logic	ABS1
	Limit-4 Fail Logic	ABS1
	Limit-5 Fail Logic	Off
	Limit-6 Fail Logic	Off

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
LTE Uplink (NS-06/07 5MHz) LTE TDD Uplink (NS-06/07 5MHz)	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Channel
	Channel BW	5 MHz
	RBW	100 kHz
	Sweep Time	500 ms
	Auto Sweep Time Select	Normal
	Detection	RMS
	Trace Point	501
	Filter Type	Rect
	Offset-1 Start Freq	2.515 MHz
	Offset-2 Start Freq	2.650 MHz
	Offset-3 Start Freq	4 MHz
	Offset-4 Start Freq	9 MHz
	Offset-1 Stop Freq	2.585 MHz
	Offset-2 Stop Freq	3.45 MHz
	Offset-3 Stop Freq	8 MHz
	Offset-4 Stop Freq	12 MHz
	Offset-1/2/3/4 Reference Level	Auto
	Offset-1 RBW	30 kHz
	Offset-2 RBW	100 kHz
	Offset-3 RBW	1 MHz
	Offset-4 RBW	1 MHz
	Offset-1 Sweep Time	400 ms
	Offset-2 Sweep Time	100 ms
	Offset-3 Sweep Time	40 ms
	Offset-4 Sweep Time	40 ms
	Offset-1/2/3/4 Auto Sweep Time Select	Normal
	Offset-1 Detection	RMS
	Offset-2 Detection	RMS
	Offset-3 Detection	RMS
	Offset-4 Detection	RMS
	Offset-1 Trace Point	401
	Offset-2 Trace Point	101
	Offset-3 Trace Point	41
	Offset-4 Trace Point	41

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
LTE Uplink (NS-06/07 5MHz) LTE TDD Uplink (NS-06/07 5MHz) (Cont'd)	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto
	Offset-3 Integrate BW	Auto
	Offset-4 Integrate BW	Auto
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	On
	Offset-5 On/Off	Off
	Offset-6 On/Off	Off
	Limit-1 ABS1 Start Level	–13.5 dBm
	Limit-2 ABS1 Start Level	–11.5 dBm
	Limit-3 ABS1 Start Level	–11.5 dBm
	Limit-4 ABS1 Start Level	–23.5 dBm
	Limit-1 ABS1 Stop Level	–13.5 dBm
	Limit-2 ABS1 Stop Level	–11.5 dBm
	Limit-3 ABS1 Stop Level	–11.5 dBm
	Limit-4 ABS1 Stop Level	–23.5 dBm
	Limit-1 Fail Logic	ABS1
	Limit-2 Fail Logic	ABS1
	Limit-3 Fail Logic	ABS1
	Limit-4 Fail Logic	ABS1
	Limit-5 Fail Logic	Off
	Limit-6 Fail Logic	Off

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
LTE Uplink (NS-06/07 10MHz) LTE TDD Uplink (NS-06/07 10MHz)	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Channel
	Channel BW	10 MHz
	RBW	300 kHz
	Sweep Time	400 ms
	Auto Sweep Time Select	Normal
	Detection	RMS
	Trace Point	401
	Filter Type	Rect
	Offset-1 Start Freq	5.015 MHz
	Offset-2 Start Freq	5.150 MHz
	Offset-3 Start Freq	6.5 MHz
	Offset-4 Start Freq	15.5 MHz
	Offset-1 Stop Freq	5.085 MHz
	Offset-2 Stop Freq	5.950 MHz
	Offset-3 Stop Freq	14.5 MHz
	Offset-4 Stop Freq	19.5 MHz
	Offset-1/2/3/4 Reference Level	Auto
	Offset-1 RBW	30 kHz
	Offset-2 RBW	100 kHz
	Offset-3 RBW	1 MHz
	Offset-4 RBW	1 MHz
	Offset-1 Sweep Time	400 ms
	Offset-2 Sweep Time	100 ms
	Offset-3 Sweep Time	100 ms
	Offset-4 Sweep Time	40 ms
	Offset-1/2/3/4 Auto Sweep Time Select	Normal
	Offset-1 Detection	RMS
	Offset-2 Detection	RMS
	Offset-3 Detection	RMS
	Offset-4 Detection	RMS
	Offset-1 Trace Point	401
	Offset-2 Trace Point	101
	Offset-3 Trace Point	101
	Offset-4 Trace Point	41

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
LTE Uplink (NS-06/07 10MHz) LTE TDD Uplink (NS-06/07 10MHz) (Cont'd)	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto
	Offset-3 Integrate BW	Auto
	Offset-4 Integrate BW	Auto
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	On
	Offset-5 On/Off	Off
	Offset-6 On/Off	Off
	Limit-1 ABS1 Start Level	–16.5 dBm
	Limit-2 ABS1 Start Level	–11.5 dBm
	Limit-3 ABS1 Start Level	–11.5 dBm
	Limit-4 ABS1 Start Level	–23.5 dBm
	Limit-1 ABS1 Stop Level	–16.5 dBm
	Limit-2 ABS1 Stop Level	–11.5 dBm
	Limit-3 ABS1 Stop Level	–11.5 dBm
	Limit-4 ABS1 Stop Level	–23.5 dBm
	Limit-1 Fail Logic	ABS1
	Limit-2 Fail Logic	ABS1
	Limit-3 Fail Logic	ABS1
	Limit-4 Fail Logic	ABS1
	Limit-5 Fail Logic	Off
	Limit-6 Fail Logic	Off

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
LTE Uplink (JAPAN 5MHz)	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Channel
	Channel BW	5 MHz
	RBW	100 kHz
	Sweep Time	500 ms
	Auto Sweep Time Select	Normal
	Detection	RMS
	Trace Point	501
	Filter Type	Rect
	Offset-1 Start Freq	2.5 MHz
	Offset-2 Start Freq	3.5. MHz
	Offset-3 Start Freq	7.5 MHz
	Offset-4 Start Freq	8.5 MHz
	Offset-1 Stop Freq	3.5 MHz
	Offset-2 Stop Freq	7.5 MHz
	Offset-3 Stop Freq	8.5 MHz
	Offset-4 Stop Freq	12.5 MHz
	Offset-1/2/3/4 Reference Level	Auto
	Offset-1 RBW	30 kHz
	Offset-2 RBW	1 MHz
	Offset-3 RBW	1 MHz
	Offset-4 RBW	1 MHz
	Offset-1 Sweep Time	400 ms
	Offset-2 Sweep Time	400 ms
	Offset-3 Sweep Time	400 ms
	Offset-4 Sweep Time	400 ms
	Offset-1/2/3/4 Auto Sweep Time Select	Normal
	Offset-1 Detection	RMS
	Offset-2 Detection	RMS
	Offset-3 Detection	RMS
	Offset-4 Detection	RMS
	Offset-1 Trace Point	401
	Offset-2 Trace Point	401
	Offset-3 Trace Point	401
	Offset-4 Trace Point	401

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
LTE Uplink (JAPAN 5MHz) (Cont'd)	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto
	Offset-3 Integrate BW	Auto
	Offset-4 Integrate BW	Auto
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	On
	Offset-5 On/Off	Off
	Offset-6 On/Off	Off
	Limit-1 ABS1 Start Level	–13.5 dBm
	Limit-2 ABS1 Start Level	–8.5 dBm
	Limit-3 ABS1 Start Level	–11.5 dBm
	Limit-4 ABS1 Start Level	–23.5 dBm
	Limit-1 ABS1 Stop Level	–13.5 dBm
	Limit-2 ABS1 Stop Level	–8.5 dBm
	Limit-3 ABS1 Stop Level	–11.5 dBm
	Limit-4 ABS1 Stop Level	–23.5 dBm
	Limit-1 Fail Logic	ABS1
	Limit-2 Fail Logic	ABS1
	Limit-3 Fail Logic	ABS1
	Limit-4 Fail Logic	ABS1
	Limit-5 Fail Logic	Off
	Limit-6 Fail Logic	Off

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
LTE Uplink (JAPAN 10MHz)	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Channel
	Channel BW	10 MHz
	RBW	300 kHz
	Sweep Time	400 ms
	Auto Sweep Time Select	Normal
	Detection	RMS
	Trace Point	401
	Filter Type	Rect
	Offset-1 Start Freq	5 MHz
	Offset-2 Start Freq	6 MHz
	Offset-3 Start Freq	10 MHz
	Offset-4 Start Freq	15 MHz
	Offset-1 Stop Freq	6 MHz
	Offset-2 Stop Freq	10 MHz
	Offset-3 Stop Freq	15 MHz
	Offset-4 Stop Freq	20 MHz
	Offset-1/2/3/4 Reference Level	Auto
	Offset-1 RBW	30 kHz
	Offset-2 RBW	1 MHz
	Offset-3 RBW	1 MHz
	Offset-4 RBW	1 MHz
	Offset-1 Sweep Time	400 ms
	Offset-2 Sweep Time	400 ms
	Offset-3 Sweep Time	400 ms
	Offset-4 Sweep Time	400 ms
	Offset-1/2/3/4 Auto Sweep Time Select	Normal
	Offset-1 Detection	RMS
	Offset-2 Detection	RMS
	Offset-3 Detection	RMS
	Offset-4 Detection	RMS
	Offset-1 Trace Point	401
	Offset-2 Trace Point	401
	Offset-3 Trace Point	401
	Offset-4 Trace Point	401

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
LTE Uplink (JAPAN 10MHz) (Cont'd)	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto
	Offset-3 Integrate BW	Auto
	Offset-4 Integrate BW	Auto
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	On
	Offset-5 On/Off	Off
	Offset-6 On/Off	Off
	Limit-1 ABS1 Start Level	–16.5 dBm
	Limit-2 ABS1 Start Level	–8.5 dBm
	Limit-3 ABS1 Start Level	–11.5 dBm
	Limit-4 ABS1 Start Level	–23.5 dBm
	Limit-1 ABS1 Stop Level	–16.5 dBm
	Limit-2 ABS1 Stop Level	–8.5 dBm
	Limit-3 ABS1 Stop Level	–11.5 dBm
	Limit-4 ABS1 Stop Level	–23.5 dBm
	Limit-1 Fail Logic	ABS1
	Limit-2 Fail Logic	ABS1
	Limit-3 Fail Logic	ABS1
	Limit-4 Fail Logic	ABS1
	Limit-5 Fail Logic	Off
	Limit-6 Fail Logic	Off

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
LTE Uplink (JAPAN 15MHz)	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Channel
	Channel BW	15 MHz
	RBW	300 kHz
	Sweep Time	500 ms
	Auto Sweep Time Select	Normal
	Detection	RMS
	Trace Point	501
	Filter Type	Rect
	Offset-1 Start Freq	7.5 MHz
	Offset-2 Start Freq	8.5 MHz
	Offset-3 Start Freq	12.5 MHz
	Offset-4 Start Freq	22.5 MHz
	Offset-1 Stop Freq	8.5 MHz
	Offset-2 Stop Freq	12.5 MHz
	Offset-3 Stop Freq	22.5 MHz
	Offset-4 Stop Freq	27.5 MHz
	Offset-1/2/3/4 Reference Level	Auto
	Offset-1 RBW	30 kHz
	Offset-2 RBW	1 MHz
	Offset-3 RBW	1 MHz
	Offset-4 RBW	1 MHz
	Offset-1 Sweep Time	400 ms
	Offset-2 Sweep Time	400 ms
	Offset-3 Sweep Time	400 ms
	Offset-4 Sweep Time	400 ms
	Offset-1/2/3/4 Auto Sweep Time Select	Normal
	Offset-1 Detection	RMS
	Offset-2 Detection	RMS
	Offset-3 Detection	RMS
	Offset-4 Detection	RMS
	Offset-1 Trace Point	401
	Offset-2 Trace Point	401
	Offset-3 Trace Point	401
	Offset-4 Trace Point	401

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
LTE Uplink (JAPAN 15MHz) (Cont'd)	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto
	Offset-3 Integrate BW	Auto
	Offset-4 Integrate BW	Auto
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	On
	Offset-5 On/Off	Off
	Offset-6 On/Off	Off
	Limit-1 ABS1 Start Level	–18.5 dBm
	Limit-2 ABS1 Start Level	–8.5 dBm
	Limit-3 ABS1 Start Level	–11.5 dBm
	Limit-4 ABS1 Start Level	–23.5 dBm
	Limit-1 ABS1 Stop Level	–18.5 dBm
	Limit-2 ABS1 Stop Level	–8.5 dBm
	Limit-3 ABS1 Stop Level	–11.5 dBm
	Limit-4 ABS1 Stop Level	–23.5 dBm
	Limit-1 Fail Logic	ABS1
	Limit-2 Fail Logic	ABS1
	Limit-3 Fail Logic	ABS1
	Limit-4 Fail Logic	ABS1
	Limit-5 Fail Logic	Off
	Limit-6 Fail Logic	Off

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
LTE Uplink (JAPAN 20MHz)	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Channel
	Channel BW	20 MHz
	RBW	300 kHz
	Sweep Time	1000 ms
	Auto Sweep Time Select	Normal
	Detection	RMS
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	10 MHz
	Offset-2 Start Freq	11 MHz
	Offset-3 Start Freq	15 MHz
	Offset-4 Start Freq	30 MHz
	Offset-1 Stop Freq	11 MHz
	Offset-2 Stop Freq	15 MHz
	Offset-3 Stop Freq	30 MHz
	Offset-4 Stop Freq	35 MHz
	Offset-1/2/3/4 Reference Level	Auto
	Offset-1 RBW	30 kHz
	Offset-2 RBW	1 MHz
	Offset-3 RBW	1 MHz
	Offset-4 RBW	1 MHz
	Offset-1 Sweep Time	400 ms
	Offset-2 Sweep Time	400 ms
	Offset-3 Sweep Time	400 ms
	Offset-4 Sweep Time	400 ms
	Offset-1/2/3/4 Auto Sweep Time Select	Normal
	Offset-1 Detection	RMS
	Offset-2 Detection	RMS
	Offset-3 Detection	RMS
	Offset-4 Detection	RMS
	Offset-1 Trace Point	401
	Offset-2 Trace Point	401
	Offset-3 Trace Point	401
	Offset-4 Trace Point	401

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
LTE Uplink (JAPAN 20MHz) (Cont'd)	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto
	Offset-3 Integrate BW	Auto
	Offset-4 Integrate BW	Auto
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	On
	Offset-5 On/Off	Off
	Offset-6 On/Off	Off
	Limit-1 ABS1 Start Level	–19.5 dBm
	Limit-2 ABS1 Start Level	–8.5 dBm
	Limit-3 ABS1 Start Level	–11.5 dBm
	Limit-4 ABS1 Start Level	–23.5 dBm
	Limit-1 ABS1 Stop Level	–19.5 dBm
	Limit-2 ABS1 Stop Level	–8.5 dBm
	Limit-3 ABS1 Stop Level	–11.5 dBm
	Limit-4 ABS1 Stop Level	–23.5 dBm
	Limit-1 Fail Logic	ABS1
	Limit-2 Fail Logic	ABS1
	Limit-3 Fail Logic	ABS1
	Limit-4 Fail Logic	ABS1
	Limit-5 Fail Logic	Off
	Limit-6 Fail Logic	Off

TD-SCDMA

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
TD-SCDMA DL Trace Point Tune (34dBm ≤ P)	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Channel
	Channel BW	1.6 MHz
	RBW	30 kHz
	Sweep Time Switch	Manual
	Sweep Time Freq. Domain	136 ms
	Auto Sweep Time Select	Normal
	Detection	RMS
	Trace Point	201
	Filter Type	Rect
	Offset-1 Start Freq	815 kHz
	Offset-2 Start Freq	1.015 MHz
	Offset-3 Start Freq	1.815 MHz
	Offset-4 Start Freq	2.3 MHz
	Offset-1 Stop Freq	1.015 MHz
	Offset-2 Stop Freq	1.815 MHz
	Offset-3 Stop Freq	2.3 MHz
	Offset-4 Stop Freq	4.0 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-3 Reference Level	Auto
	Offset-4 Reference Level	Auto
	Offset-1 RBW	30 kHz
	Offset-2 RBW	30 kHz
	Offset-3 RBW	30 kHz
	Offset-4 RBW	30 kHz
	Offset-1 Sweep Time	28 ms
	Offset-2 Sweep Time	136 ms
	Offset-3 Sweep Time	69 ms
	Offset-4 Sweep Time	676 ms

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
TD-SCDMA DL Trace Point Tune (34dBm ≤ P)	Offset-1 Auto Sweep Time Select	Normal
	Offset-2 Auto Sweep Time Select	Normal
	Offset-3 Auto Sweep Time Select	Normal
	Offset-4 Auto Sweep Time Select	Normal
	Offset-1 Detection	RMS
	Offset-2 Detection	RMS
	Offset-3 Detection	RMS
	Offset-4 Detection	RMS
	Offset-1 Trace Point	41
	Offset-2 Trace Point	201
	Offset-3 Trace Point	101
	Offset-4 Trace Point	1001
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto
	Offset-3 Integrate BW	Auto
	Offset-4 Integrate BW	1 MHz
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	On
	Limit-1 ABS1 Start Level	–20.0 dBm
	Limit-2 ABS1 Start Level	–20.0 dBm
	Limit-3 ABS1 Start Level	–28.0 dBm
	Limit-4 ABS1 Start Level	–13.0 dBm
	Limit-1 ABS1 Stop Level	–20.0 dBm
	Limit-2 ABS1 Stop Level	–28.0 dBm
	Limit-3 ABS1 Stop Level	–28.0 dBm
	Limit-4 ABS1 Stop Level	–13.0 dBm
	Limit-1 Fail Logic	ABS1
	Limit-2 Fail Logic	ABS1
	Limit-3 Fail Logic	ABS1
	Limit-4 Fail Logic	ABS1

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
TD-SCDMA DL Trace Point Tune (26dBm ≤ P < 34dBm)	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Channel
	Channel BW	1.6 MHz
	RBW	30 kHz
	Sweep Time Switch	Manual
	Sweep Time Freq. Domain	136 ms
	Auto Sweep Time Select	Normal
	Detection	RMS
	Trace Point	201
	Filter Type	Rect
	Offset-1 Start Freq	815 kHz
	Offset-2 Start Freq	1.015 MHz
	Offset-3 Start Freq	1.815 MHz
	Offset-4 Start Freq	2.3 MHz
	Offset-1 Stop Freq	1.015 MHz
	Offset-2 Stop Freq	1.815 MHz
	Offset-3 Stop Freq	2.3 MHz
	Offset-4 Stop Freq	4.0 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-3 Reference Level	Auto
	Offset-4 Reference Level	Auto
	Offset-1 RBW	30 kHz
	Offset-2 RBW	30 kHz
	Offset-3 RBW	30 kHz
	Offset-4 RBW	30 kHz
	Offset-1 Sweep Time	28 ms
	Offset-2 Sweep Time	136 ms
	Offset-3 Sweep Time	69 ms
	Offset-4 Sweep Time	676 ms

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
TD-SCDMA DL Trace Point Tune (26dBm ≤ P < 34dBm)	Offset-1 Auto Sweep Time Select	Normal
	Offset-2 Auto Sweep Time Select	Normal
	Offset-3 Auto Sweep Time Select	Normal
	Offset-4 Auto Sweep Time Select	Normal
	Offset-1 Detection	RMS
	Offset-2 Detection	RMS
	Offset-3 Detection	RMS
	Offset-4 Detection	RMS
	Offset-1 Trace Point	41
	Offset-2 Trace Point	201
	Offset-3 Trace Point	101
	Offset-4 Trace Point	1001
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto
	Offset-3 Integrate BW	Auto
	Offset-4 Integrate BW	1 MHz
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	On
	Limit-1 REL Start Level	–54.0 dB
	Limit-2 REL Start Level	–54.0 dB
	Limit-3 REL Start Level	–62.0 dB
	Limit-4 REL Start Level	–47.0 dB
	Limit-1 REL Stop Level	–54.0 dB
	Limit-2 REL Stop Level	–62.0 dB
	Limit-3 REL Stop Level	–62.0 dB
	Limit-4 REL Stop Level	–47.0 dB
	Limit-1 Fail Logic	REL
	Limit-2 Fail Logic	REL
	Limit-3 Fail Logic	REL
	Limit-4 Fail Logic	REL

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
TD-SCDMA DL Trace Point Tune (P < 26dBm)	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Channel
	Channel BW	1.6 MHz
	RBW	30 kHz
	Sweep Time Switch	Manual
	Sweep Time Freq. Domain	136 ms
	Auto Sweep Time Select	Normal
	Detection	RMS
	Trace Point	201
	Filter Type	Rect
	Offset-1 Start Freq	815 kHz
	Offset-2 Start Freq	1.015 MHz
	Offset-3 Start Freq	1.815 MHz
	Offset-4 Start Freq	2.3 MHz
	Offset-1 Stop Freq	1.015 MHz
	Offset-2 Stop Freq	1.815 MHz
	Offset-3 Stop Freq	2.3 MHz
	Offset-4 Stop Freq	4.0 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-3 Reference Level	Auto
	Offset-4 Reference Level	Auto
	Offset-1 RBW	30 kHz
	Offset-2 RBW	30 kHz
	Offset-3 RBW	30 kHz
	Offset-4 RBW	30 kHz
	Offset-1 Sweep Time	28 ms
	Offset-2 Sweep Time	136 ms
	Offset-3 Sweep Time	69 ms
	Offset-4 Sweep Time	676 ms

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
TD-SCDMA DL Trace Point Tune (P < 26dBm)	Offset-1 Auto Sweep Time Select	Normal
	Offset-2 Auto Sweep Time Select	Normal
	Offset-3 Auto Sweep Time Select	Normal
	Offset-4 Auto Sweep Time Select	Normal
	Offset-1 Detection	RMS
	Offset-2 Detection	RMS
	Offset-3 Detection	RMS
	Offset-4 Detection	RMS
	Offset-1 Trace Point	41
	Offset-2 Trace Point	201
	Offset-3 Trace Point	101
	Offset-4 Trace Point	1001
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto
	Offset-3 Integrate BW	Auto
	Offset-4 Integrate BW	1 MHz
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	On
	Limit-1 ABS1 Start Level	–28.0 dBm
	Limit-2 ABS1 Start Level	–28.0 dBm
	Limit-3 ABS1 Start Level	–36.0 dBm
	Limit-4 ABS1 Start Level	–21.0 dBm
	Limit-1 ABS1 Stop Level	–28.0 dBm
	Limit-2 ABS1 Stop Level	–36.0 dBm
	Limit-3 ABS1 Stop Level	–36.0 dBm
	Limit-4 ABS1 Stop Level	–21.0 dBm
	Limit-1 Fail Logic	ABS1
	Limit-2 Fail Logic	ABS1
	Limit-3 Fail Logic	ABS1
	Limit-4 Fail Logic	ABS1

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
TD-SCDMA UL Trace Point Tune (–53.5dBm ≤ P)	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Channel
	Channel BW	1.6 MHz
	RBW	30 kHz
	Sweep Time Switch	Manual
	Sweep Time Freq. Domain	136 ms
	Auto Sweep Time Select	Normal
	Detection	RMS
	Trace Point	201
	Filter Type	Rect
	Offset-1 Start Freq	815 kHz
	Offset-2 Start Freq	1.815 MHz
	Offset-3 Start Freq	2.4 MHz
	Offset-1 Stop Freq	1.815 MHz
	Offset-2 Stop Freq	2.4 MHz
	Offset-3 Stop Freq	4.0 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-3 Reference Level	Auto
	Offset-1 RBW	30 kHz
	Offset-2 RBW	30 kHz
	Offset-3 RBW	30 kHz
	Offset-1 Sweep Time	136 ms
	Offset-2 Sweep Time	69 ms
	Offset-3 Sweep Time	676 ms

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
TD-SCDMA UL Trace Point Tune (–53.5dBm ≤ P)	Offset-1 Auto Sweep Time Select	Normal
	Offset-2 Auto Sweep Time Select	Normal
	Offset-3 Auto Sweep Time Select	Normal
	Offset-1 Detection	RMS
	Offset-2 Detection	RMS
	Offset-3 Detection	RMS
	Offset-1 Trace Point	201
	Offset-2 Trace Point	101
	Offset-3 Trace Point	1001
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto
	Offset-3 Integrate BW	Auto
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Limit-1 REL Start Level	–33.5 dB
	Limit-2 REL Start Level	–47.5 dB
	Limit-3 REL Start Level	–42.5 dB
	Limit-1 REL Stop Level	–47.5 dB
	Limit-2 REL Stop Level	–64.5 dB
	Limit-3 REL Stop Level	–42.5 dB
	Limit-1 Fail Logic	REL
	Limit-2 Fail Logic	REL
	Limit-3 Fail Logic	REL

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
TD-SCDMA UL Trace Point Tune (–55dBm ≤ P)	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Channel
	Channel BW	1.6 MHz
	RBW	30 kHz
	Sweep Time Switch	Manual
	Sweep Time Freq. Domain	136 ms
	Auto Sweep Time Select	Normal
	Detection	RMS
	Trace Point	201
	Filter Type	Rect
	Offset-1 Start Freq	815 kHz
	Offset-2 Start Freq	1.815 MHz
	Offset-3 Start Freq	2.4 MHz
	Offset-1 Stop Freq	1.815 MHz
	Offset-2 Stop Freq	2.4 MHz
	Offset-3 Stop Freq	4.0 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-3 Reference Level	Auto
	Offset-1 RBW	30 kHz
	Offset-2 RBW	30 kHz
	Offset-3 RBW	30 kHz
	Offset-1 Sweep Time	136 ms
	Offset-2 Sweep Time	69 ms
	Offset-3 Sweep Time	676 ms

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
TD-SCDMA UL Trace Point Tune (–55dBm ≤ P)	Offset-1 Auto Sweep Time Select	Normal
	Offset-2 Auto Sweep Time Select	Normal
	Offset-3 Auto Sweep Time Select	Normal
	Offset-1 Detection	RMS
	Offset-2 Detection	RMS
	Offset-3 Detection	RMS
	Offset-1 Trace Point	201
	Offset-2 Trace Point	101
	Offset-3 Trace Point	1001
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto
	Offset-3 Integrate BW	Auto
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Limit-1 REL Start Level	–35.0 dB
	Limit-2 REL Start Level	–49.0 dB
	Limit-3 REL Start Level	–44.0 dB
	Limit-1 REL Stop Level	–49.0 dB
	Limit-2 REL Stop Level	–66.0 dB
	Limit-3 REL Stop Level	–44.0 dB
	Limit-1 Fail Logic	REL
	Limit-2 Fail Logic	REL
	Limit-3 Fail Logic	REL

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
TD-SCDMA Downlink Actual (34dBm ≤ P)	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Channel
	Channel BW	1.6 MHz
	RBW	30 kHz
	Sweep Time Switch	Manual
	Sweep Time Freq. Domain	676 ms
	Auto Sweep Time Select	Normal
	Detection	RMS
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	815 kHz
	Offset-2 Start Freq	1.015 MHz
	Offset-3 Start Freq	1.815 MHz
	Offset-4 Start Freq	2.3 MHz
	Offset-1 Stop Freq	1.015 MHz
	Offset-2 Stop Freq	1.815 MHz
	Offset-3 Stop Freq	2.3 MHz
	Offset-4 Stop Freq	4.0 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-3 Reference Level	Auto
	Offset-4 Reference Level	Auto
	Offset-1 RBW	30 kHz
	Offset-2 RBW	30 kHz
	Offset-3 RBW	30 kHz
	Offset-4 RBW	30 kHz
	Offset-1 Sweep Time	676 ms
	Offset-2 Sweep Time	676 ms
	Offset-3 Sweep Time	676 ms
	Offset-4 Sweep Time	676 ms

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
TD-SCDMA Downlink Actual (34dBm ≤ P)	Offset-1 Auto Sweep Time Select	Normal
	Offset-2 Auto Sweep Time Select	Normal
	Offset-3 Auto Sweep Time Select	Normal
	Offset-4 Auto Sweep Time Select	Normal
	Offset-1 Detection	RMS
	Offset-2 Detection	RMS
	Offset-3 Detection	RMS
	Offset-4 Detection	RMS
	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-3 Trace Point	1001
	Offset-4 Trace Point	1001
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto
	Offset-3 Integrate BW	Auto
	Offset-4 Integrate BW	1 MHz
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	On
	Limit-1 ABS1 Start Level	–20.0 dBm
	Limit-2 ABS1 Start Level	–20.0 dBm
	Limit-3 ABS1 Start Level	–28.0 dBm
	Limit-4 ABS1 Start Level	–13.0 dBm
	Limit-1 ABS1 Stop Level	–20.0 dBm
	Limit-2 ABS1 Stop Level	–28.0 dBm
	Limit-3 ABS1 Stop Level	–28.0 dBm
	Limit-4 ABS1 Stop Level	–13.0 dBm
	Limit-1 Fail Logic	ABS1
	Limit-2 Fail Logic	ABS1
	Limit-3 Fail Logic	ABS1
	Limit-4 Fail Logic	ABS1

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
TD-SCDMA Downlink Actual (26dBm ≤ P < 34dBm)	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Channel
	Channel BW	1.6 MHz
	RBW	30 kHz
	Sweep Time Switch	Manual
	Sweep Time Freq. Domain	676 ms
	Auto Sweep Time Select	Normal
	Detection	RMS
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	815 kHz
	Offset-2 Start Freq	1.015 MHz
	Offset-3 Start Freq	1.815 MHz
	Offset-4 Start Freq	2.3 MHz
	Offset-1 Stop Freq	1.015 MHz
	Offset-2 Stop Freq	1.815 MHz
	Offset-3 Stop Freq	2.3 MHz
	Offset-4 Stop Freq	4.0 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-3 Reference Level	Auto
	Offset-4 Reference Level	Auto
	Offset-1 RBW	30 kHz
	Offset-2 RBW	30 kHz
	Offset-3 RBW	30 kHz
	Offset-4 RBW	30 kHz
	Offset-1 Sweep Time	676 ms
	Offset-2 Sweep Time	676 ms
	Offset-3 Sweep Time	676 ms
	Offset-4 Sweep Time	676 ms

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
TD-SCDMA Downlink Actual (26dBm ≤ P < 34dBm)	Offset-1 Auto Sweep Time Select	Normal
	Offset-2 Auto Sweep Time Select	Normal
	Offset-3 Auto Sweep Time Select	Normal
	Offset-4 Auto Sweep Time Select	Normal
	Offset-1 Detection	RMS
	Offset-2 Detection	RMS
	Offset-3 Detection	RMS
	Offset-4 Detection	RMS
	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-3 Trace Point	1001
	Offset-4 Trace Point	1001
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto
	Offset-3 Integrate BW	Auto
	Offset-4 Integrate BW	1 MHz
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	On
	Limit-1 REL Start Level	–54.0 dB
	Limit-2 REL Start Level	–54.0 dB
	Limit-3 REL Start Level	–62.0 dB
	Limit-4 REL Start Level	–47.0 dB
	Limit-1 REL Stop Level	–54.0 dB
	Limit-2 REL Stop Level	–62.0 dB
	Limit-3 REL Stop Level	–62.0 dB
	Limit-4 REL Stop Level	–47.0 dB
	Limit-1 Fail Logic	REL
	Limit-2 Fail Logic	REL
	Limit-3 Fail Logic	REL
	Limit-4 Fail Logic	REL

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
TD-SCDMA Downlink Actual (P < 26dBm)	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Channel
	Channel BW	1.6 MHz
	RBW	30 kHz
	Sweep Time Switch	Manual
	Sweep Time Freq. Domain	676 ms
	Auto Sweep Time Select	Normal
	Detection	RMS
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	815 kHz
	Offset-2 Start Freq	1.015 MHz
	Offset-3 Start Freq	1.815 MHz
	Offset-4 Start Freq	2.3 MHz
	Offset-1 Stop Freq	1.015 MHz
	Offset-2 Stop Freq	1.815 MHz
	Offset-3 Stop Freq	2.3 MHz
	Offset-4 Stop Freq	4.0 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-3 Reference Level	Auto
	Offset-4 Reference Level	Auto
	Offset-1 RBW	30 kHz
	Offset-2 RBW	30 kHz
	Offset-3 RBW	30 kHz
	Offset-4 RBW	30 kHz
	Offset-1 Sweep Time	676 ms
	Offset-2 Sweep Time	676 ms
	Offset-3 Sweep Time	676 ms
	Offset-4 Sweep Time	676 ms

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
TD-SCDMA Downlink Actual (P < 26dBm)	Offset-1 Auto Sweep Time Select	Normal
	Offset-2 Auto Sweep Time Select	Normal
	Offset-3 Auto Sweep Time Select	Normal
	Offset-4 Auto Sweep Time Select	Normal
	Offset-1 Detection	RMS
	Offset-2 Detection	RMS
	Offset-3 Detection	RMS
	Offset-4 Detection	RMS
	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-3 Trace Point	1001
	Offset-4 Trace Point	1001
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto
	Offset-3 Integrate BW	Auto
	Offset-4 Integrate BW	1 MHz
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	On
	Limit-1 ABS1 Start Level	–28.0 dBm
	Limit-2 ABS1 Start Level	–28.0 dBm
	Limit-3 ABS1 Start Level	–36.0 dBm
	Limit-4 ABS1 Start Level	–21.0 dBm
	Limit-1 ABS1 Stop Level	–28.0 dBm
	Limit-2 ABS1 Stop Level	–36.0 dBm
	Limit-3 ABS1 Stop Level	–36.0 dBm
	Limit-4 ABS1 Stop Level	–21.0 dBm
	Limit-1 Fail Logic	ABS1
	Limit-2 Fail Logic	ABS1
	Limit-3 Fail Logic	ABS1
	Limit-4 Fail Logic	ABS1

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
TD-SCDMA Uplink Actual (–53.5dBm ≤ P)	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Channel
	Channel BW	1.6 MHz
	RBW	30 kHz
	Sweep Time Switch	Manual
	Sweep Time Freq. Domain	676 ms
	Auto Sweep Time Select	Normal
	Detection	RMS
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	815 kHz
	Offset-2 Start Freq	1.815 MHz
	Offset-3 Start Freq	2.4 MHz
	Offset-1 Stop Freq	1.815 MHz
	Offset-2 Stop Freq	2.4 MHz
	Offset-3 Stop Freq	4.0 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-3 Reference Level	Auto
	Offset-1 RBW	30 kHz
	Offset-2 RBW	30 kHz
	Offset-3 RBW	30 kHz
	Offset-1 Sweep Time	676 ms
	Offset-2 Sweep Time	676 ms
	Offset-3 Sweep Time	676 ms

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
TD-SCDMA Uplink Actual (–53.5dBm ≤ P)	Offset-1 Auto Sweep Time Select	Normal
	Offset-2 Auto Sweep Time Select	Normal
	Offset-3 Auto Sweep Time Select	Normal
	Offset-1 Detection	RMS
	Offset-2 Detection	RMS
	Offset-3 Detection	RMS
	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-3 Trace Point	1001
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto
	Offset-3 Integrate BW	Auto
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Limit-1 REL Start Level	–33.5 dB
	Limit-2 REL Start Level	–47.5 dB
	Limit-3 REL Start Level	–42.5 dB
	Limit-1 REL Stop Level	–47.5 dB
	Limit-2 REL Stop Level	–64.5 dB
	Limit-3 REL Stop Level	–42.5 dB
	Limit-1 Fail Logic	REL
	Limit-2 Fail Logic	REL
	Limit-3 Fail Logic	REL

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
TD-SCDMA Uplink Actual (–55dBm ≤ P)	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Channel
	Channel BW	1.6 MHz
	RBW	30 kHz
	Sweep Time Switch	Manual
	Sweep Time Freq. Domain	676 ms
	Auto Sweep Time Select	Normal
	Detection	RMS
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	815 kHz
	Offset-2 Start Freq	1.815 MHz
	Offset-3 Start Freq	2.4 MHz
	Offset-1 Stop Freq	1.815 MHz
	Offset-2 Stop Freq	2.4 MHz
	Offset-3 Stop Freq	4.0 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-3 Reference Level	Auto
	Offset-1 RBW	30 kHz
	Offset-2 RBW	30 kHz
	Offset-3 RBW	30 kHz
	Offset-1 Sweep Time	676 ms
	Offset-2 Sweep Time	676 ms
	Offset-3 Sweep Time	676 ms

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
TD-SCDMA Uplink Actual (–55dBm ≤ P)	Offset-1 Auto Sweep Time Select	Normal
	Offset-2 Auto Sweep Time Select	Normal
	Offset-3 Auto Sweep Time Select	Normal
	Offset-1 Detection	RMS
	Offset-2 Detection	RMS
	Offset-3 Detection	RMS
	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-3 Trace Point	1001
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto
	Offset-3 Integrate BW	Auto
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Limit-1 REL Start Level	–35.0 dB
	Limit-2 REL Start Level	–49.0 dB
	Limit-3 REL Start Level	–44.0 dB
	Limit-1 REL Stop Level	–49.0 dB
	Limit-2 REL Stop Level	–66.0 dB
	Limit-3 REL Stop Level	–44.0 dB
	Limit-1 Fail Logic	REL
	Limit-2 Fail Logic	REL
	Limit-3 Fail Logic	REL

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
TD-SCDMA Downlink Fast (34dBm ≤ P)	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Channel
	Channel BW	1.6 MHz
	RBW	30 kHz
	Sweep Time	Auto
	Auto Sweep Time Select	Normal
	Detection	RMS
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	815 kHz
	Offset-2 Start Freq	1.015 MHz
	Offset-3 Start Freq	1.815 MHz
	Offset-4 Start Freq	2.3 MHz
	Offset-1 Stop Freq	1.015 MHz
	Offset-2 Stop Freq	1.815 MHz
	Offset-3 Stop Freq	2.3 MHz
	Offset-4 Stop Freq	4 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-3 Reference Level	Auto
	Offset-4 Reference Level	Auto
	Offset-1 RBW	30 kHz
	Offset-2 RBW	30 kHz
	Offset-3 RBW	30 kHz
	Offset-4 RBW	30 kHz
	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-3 Sweep Time	Auto
	Offset-4 Sweep Time	Auto

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
TD-SCDMA Downlink Fast (34dBm ≤ P)	Offset-1 Auto Sweep Time Select	Normal
	Offset-2 Auto Sweep Time Select	Normal
	Offset-3 Auto Sweep Time Select	Normal
	Offset-4 Auto Sweep Time Select	Normal
	Offset-1 Detection	RMS
	Offset-2 Detection	RMS
	Offset-3 Detection	RMS
	Offset-4 Detection	RMS
	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-3 Trace Point	1001
	Offset-4 Trace Point	1001
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto
	Offset-3 Integrate BW	Auto
	Offset-4 Integrate BW	1 MHz
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	On
	Limit-1 ABS1 Start Level	–20.0 dBm
	Limit-2 ABS1 Start Level	–20.0 dBm
	Limit-3 ABS1 Start Level	–28.0 dBm
	Limit-4 ABS1 Start Level	–13.0 dBm
	Limit-1 ABS1 Stop Level	–20.0 dBm
	Limit-2 ABS1 Stop Level	–28.0 dBm
	Limit-3 ABS1 Stop Level	–28.0 dBm
	Limit-4 ABS1 Stop Level	–13.0 dBm
	Limit-1 Fail Logic	ABS1
	Limit-2 Fail Logic	ABS1
	Limit-3 Fail Logic	ABS1
	Limit-4 Fail Logic	ABS1

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
TD-SCDMA Downlink Fast (26dBm ≤ P < 34dBm)	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Channel
	Channel BW	1.6 MHz
	RBW	30 kHz
	Sweep Time	Auto
	Auto Sweep Time Select	Normal
	Detection	RMS
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	815 kHz
	Offset-2 Start Freq	1.015 MHz
	Offset-3 Start Freq	1.815 MHz
	Offset-4 Start Freq	2.3 MHz
	Offset-1 Stop Freq	1.015 MHz
	Offset-2 Stop Freq	1.815 MHz
	Offset-3 Stop Freq	2.3 MHz
	Offset-4 Stop Freq	4 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-3 Reference Level	Auto
	Offset-4 Reference Level	Auto
	Offset-1 RBW	30 kHz
	Offset-2 RBW	30 kHz
	Offset-3 RBW	30 kHz
	Offset-4 RBW	30 kHz
	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-3 Sweep Time	Auto
	Offset-4 Sweep Time	Auto

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
TD-SCDMA Downlink Fast (26dBm ≤ P < 34dBm)	Offset-1 Auto Sweep Time Select	Normal
	Offset-2 Auto Sweep Time Select	Normal
	Offset-3 Auto Sweep Time Select	Normal
	Offset-4 Auto Sweep Time Select	Normal
	Offset-1 Detection	RMS
	Offset-2 Detection	RMS
	Offset-3 Detection	RMS
	Offset-4 Detection	RMS
	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-3 Trace Point	1001
	Offset-4 Trace Point	1001
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto
	Offset-3 Integrate BW	Auto
	Offset-4 Integrate BW	1 MHz
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	On
	Limit-1 REL Start Level	–54.0 dB
	Limit-2 REL Start Level	–54.0 dB
	Limit-3 REL Start Level	–62.0 dB
	Limit-4 REL Start Level	–47.0 dB
	Limit-1 REL Stop Level	–54.0 dB
	Limit-2 REL Stop Level	–62.0 dB
	Limit-3 REL Stop Level	–62.0 dB
	Limit-4 REL Stop Level	–47.0 dB
	Limit-1 Fail Logic	REL
	Limit-2 Fail Logic	REL
	Limit-3 Fail Logic	REL
	Limit-4 Fail Logic	REL

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
TD-SCDMA Downlink Fast (P < 26dBm)	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Channel
	Channel BW	1.6 MHz
	RBW	30 kHz
	Sweep Time	Auto
	Auto Sweep Time Select	Normal
	Detection	RMS
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	815 kHz
	Offset-2 Start Freq	1.015 MHz
	Offset-3 Start Freq	1.815 MHz
	Offset-4 Start Freq	2.3 MHz
	Offset-1 Stop Freq	1.015 MHz
	Offset-2 Stop Freq	1.815 MHz
	Offset-3 Stop Freq	2.3 MHz
	Offset-4 Stop Freq	4 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-3 Reference Level	Auto
	Offset-4 Reference Level	Auto
	Offset-1 RBW	30 kHz
	Offset-2 RBW	30 kHz
	Offset-3 RBW	30 kHz
	Offset-4 RBW	30 kHz
	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-3 Sweep Time	Auto
	Offset-4 Sweep Time	Auto

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
TD-SCDMA Downlink Fast (P < 26dBm)	Offset-1 Auto Sweep Time Select	Normal
	Offset-2 Auto Sweep Time Select	Normal
	Offset-3 Auto Sweep Time Select	Normal
	Offset-4 Auto Sweep Time Select	Normal
	Offset-1 Detection	RMS
	Offset-2 Detection	RMS
	Offset-3 Detection	RMS
	Offset-4 Detection	RMS
	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-3 Trace Point	1001
	Offset-4 Trace Point	1001
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto
	Offset-3 Integrate BW	Auto
	Offset-4 Integrate BW	1 MHz
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	On
	Limit-1 ABS1 Start Level	–28.0 dBm
	Limit-2 ABS1 Start Level	–28.0 dBm
	Limit-3 ABS1 Start Level	–36.0 dBm
	Limit-4 ABS1 Start Level	–21.0 dBm
	Limit-1 ABS1 Stop Level	–28.0 dBm
	Limit-2 ABS1 Stop Level	–36.0 dBm
	Limit-3 ABS1 Stop Level	–36.0 dBm
	Limit-4 ABS1 Stop Level	–21.0 dBm
	Limit-1 Fail Logic	ABS1
	Limit-2 Fail Logic	ABS1
	Limit-3 Fail Logic	ABS1
	Limit-4 Fail Logic	ABS1

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
TD-SCDMA Uplink Fast (–53.5dBm ≤ P)	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Channel
	Channel BW	1.6 MHz
	RBW	30 kHz
	Sweep Time	Auto
	Auto Sweep Time Select	Normal
	Detection	RMS
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	815 kHz
	Offset-2 Start Freq	1.815 MHz
	Offset-3 Start Freq	2.4 MHz
	Offset-1 Stop Freq	1.815 MHz
	Offset-2 Stop Freq	2.4 MHz
	Offset-3 Stop Freq	4.0 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-3 Reference Level	Auto
	Offset-1 RBW	30 kHz
	Offset-2 RBW	30 kHz
	Offset-3 RBW	30 kHz
	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-3 Sweep Time	Auto

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
TD-SCDMA Uplink Fast (–53.5dBm ≤ P)	Offset-1 Auto Sweep Time Select	Normal
	Offset-2 Auto Sweep Time Select	Normal
	Offset-3 Auto Sweep Time Select	Normal
	Offset-1 Detection	RMS
	Offset-2 Detection	RMS
	Offset-3 Detection	RMS
	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-3 Trace Point	1001
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto
	Offset-3 Integrate BW	1 MHz
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Limit-1 REL Start Level	–33.5 dB
	Limit-2 REL Start Level	–47.5 dB
	Limit-3 REL Start Level	–42.5 dB
	Limit-1 REL Stop Level	–47.5 dB
	Limit-2 REL Stop Level	–64.5 dB
	Limit-3 REL Stop Level	–42.5 dB
	Limit-1 Fail Logic	REL
	Limit-2 Fail Logic	REL
	Limit-3 Fail Logic	REL

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
TD-SCDMA Uplink Fast (–55dBm ≤ P)	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Channel
	Channel BW	1.6 MHz
	RBW	30 kHz
	Sweep Time	Auto
	Auto Sweep Time Select	Normal
	Detection	RMS
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	815 kHz
	Offset-2 Start Freq	1.815 MHz
	Offset-3 Start Freq	2.4 MHz
	Offset-1 Stop Freq	1.815 MHz
	Offset-2 Stop Freq	2.4 MHz
	Offset-3 Stop Freq	4.0 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-3 Reference Level	Auto
	Offset-1 RBW	30 kHz
	Offset-2 RBW	30 kHz
	Offset-3 RBW	30 kHz
	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-3 Sweep Time	Auto

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
TD-SCDMA Uplink Fast (–55dBm ≤ P)	Offset-1 Auto Sweep Time Select	Normal
	Offset-2 Auto Sweep Time Select	Normal
	Offset-3 Auto Sweep Time Select	Normal
	Offset-1 Detection	RMS
	Offset-2 Detection	RMS
	Offset-3 Detection	RMS
	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-3 Trace Point	1001
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto
	Offset-3 Integrate BW	1 MHz
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Limit-1 REL Start Level	–35.0 dB
	Limit-2 REL Start Level	–49.0 dB
	Limit-3 REL Start Level	–44.0 dB
	Limit-1 REL Stop Level	–49.0 dB
	Limit-2 REL Stop Level	–66.0 dB
	Limit-3 REL Stop Level	–44.0 dB
	Limit-1 Fail Logic	REL
	Limit-2 Fail Logic	REL
	Limit-3 Fail Logic	REL

XG-PHS

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
XG-PHS 10MHz BW BS	Frequency Span	50 MHz
	RBW	30 kHz
	Reference Mode	Channel
	Reference Channel Bandwidth	10 MHz
	Reference Sweep Time Switch	Auto
	Reference Auto Sweep Time Select	Normal
	Reference Detection	RMS
	Offset-1 On/Off	Off
	Offset-1 Start Freq-1	5.2 MHz
	Offset-1 Stop Freq-1	14.8 MHz
	Offset-1 RBW Value	30 kHz
	Offset-1 Sweep Time Switch	Manual
	Offset-1 Sweep Time Value	5100 ms
	Offset-1 Auto Sweep Time Select	Normal
	Offset-1 Integrate BW Switch	Manual
	Offset-1 Integrate BW	1 MHz
	Limit-1 ABS1 Start Level	–10 dBm
	Limit-1 ABS1 Stop Level	–10 dBm
	Limit-1 Fail Logic	ABS1
	Offset-1 Detection	RMS
	Offset-2 On/Off	On
	Offset-2 Start Freq-1	15 MHz
	Offset-2 Stop Freq-1	25 MHz
	Offset-2 RBW Value	1 MHz
	Offset-2 Sweep Time Switch	Manual
	Offset-2 Sweep Time Value	500 ms
	Offset-2 Integrate BW Switch	AUTO
	Limit-2 ABS1 Start Level	–30 dBm
	Limit-2 ABS1 Stop Level	–30 dBm
	Limit-2 Fail Logic	ABS1
	Offset-2 Detection	Positive

Note:

Burst time ratio is not considered for the XG-PHS 10 MHz BW BS settings.

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
XG-PHS 10MHz BW UE	Frequency Span	50 MHz
	RBW	30 kHz
	Reference Mode	Channel
	Reference Channel Bandwidth	10 MHz
	Reference Sweep Time Switch	Auto
	Reference Auto Sweep Time Select	Normal
	Reference Detection	RMS
	Offset-1 On/Off	Off
	Offset-1 Start Freq-1	5.2 MHz
	Offset-1 Stop Freq-1	14.8 MHz
	Offset-1 RBW Value	30 kHz
	Offset-1 Sweep Time Switch	Manual
	Offset-1 Sweep Time Value	5100 ms
	Offset-1 Auto Sweep Time Select	Normal
	Offset-1 Integrate BW Switch	Manual
	Offset-1 Integrate BW	1 MHz
	Limit-1 ABS1 Start Level	–10 dBm
	Limit-1 ABS1 Stop Level	–10 dBm
	Limit-1 Fail Logic	ABS1
	Offset-1 Detection	RMS
	Offset-2 On/Off	On
	Offset-2 Start Freq-1	15 MHz
	Offset-2 Stop Freq-1	20 MHz
	Offset-2 RBW Value	1 MHz
	Offset-2 Sweep Time Switch	Manual
	Offset-2 Sweep Time Value	250 ms
	Offset-2 Integrate BW Switch	AUTO
	Limit-2 ABS1 Start Level	–25 dBm
	Limit-2 ABS1 Stop Level	–30 dBm

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
XG-PHS 10MHz BW UE	Limit-2 Fail Logic	ABS1
	Offset-2 Detection	Positive
	Offset-3 On/Off	On
	Offset-3 Start Freq-1	20 MHz
	Offset-3 Stop Freq-1	25 MHz
	Offset-3 RBW Value	1 MHz
	Offset-3 Sweep Time Switch	Manual
	Offset-3 Sweep Time Value	250 ms
	Offset-3 Integrate BW Switch	AUTO
	Limit-3 ABS1 Start Level	–30 dBm
	Limit-3 ABS1 Stop Level	–30 dBm
	Limit-3 Fail Logic	ABS1
	Offset-3 Detection	Positive

Note:

Burst time ratio is not considered for the XG-PHS 10 MHz BW UE settings.

CDMA2000

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
CDMA2000 Forward Link Band Class 0,2,5,7,9,10 (Pout < 28dBm)	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Channel
	Channel BW	1.23 MHz
	RBW	30 kHz
	VBW	Auto
	Sweep Time	Auto
	Auto Sweep Time Select	Normal
	Detection	RMS
	Trace Point	101
	Filter Type	Rect
	Offset-1 Start Freq	765 kHz
	Offset-2 Start Freq	1.995 MHz
	Offset-3 Start Freq	3.2531 MHz
	Offset-4 Start Freq	4.0005 MHz
	Offset-5 Start Freq	6.405 MHz
	Offset-1 Stop Freq	1.995 MHz
	Offset-2 Stop Freq	4.015 MHz
	Offset-3 Stop Freq	4.0031 MHz
	Offset-4 Stop Freq	6.4005 MHz
	Offset-5 Stop Freq	16.005 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-3 Reference Level	Auto
	Offset-4 Reference Level	Auto
	Offset-5 Reference Level	Auto
	Offset-1 RBW	30 kHz
	Offset-2 RBW	30 kHz
	Offset-3 RBW	100 Hz
	Offset-4 RBW	1 kHz
	Offset-5 RBW	10 kHz

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
CDMA2000 Forward Link Band Class 0,2,5,7,9,10 (Pout < 28dBm)	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-3 Sweep Time	Auto
	Offset-4 Sweep Time	Auto
	Offset-5 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Normal
	Offset-2 Auto Sweep Time Select	Normal
	Offset-3 Auto Sweep Time Select	Normal
	Offset-4 Auto Sweep Time Select	Normal
	Offset-5 Auto Sweep Time Select	Normal
	Offset-1 Detection	RMS
	Offset-2 Detection	RMS
	Offset-3 Detection	RMS
	Offset-4 Detection	RMS
	Offset-5 Detection	RMS
	Offset-1 Trace Point	101
	Offset-2 Trace Point	101
	Offset-3 Trace Point	10001
	Offset-4 Trace Point	5001
	Offset-5 Trace Point	1001
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto
	Offset-3 Integrate BW	6.25 kHz
	Offset-4 Integrate BW	Auto
	Offset-5 Integrate BW	Auto
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	Off
	Offset-4 On/Off	Off
	Offset-5 On/Off	Off
	Offset-6 On/Off	Off

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
CDMA2000 Forward Link Band Class 0,2,5,7,9,10 (Pout < 28dBm)	Limit-1 ABS1 Start Level	–13.0 dBm
	Limit-2 ABS1 Start Level	–13.0 dBm
	Limit-3 ABS1 Start Level	–46.0 dBm
	Limit-4 ABS1 Start Level	–36.0 dBm
	Limit-5 ABS1 Start Level	–36.0 dBm
	Limit-1 ABS1 Stop Level	–13.0 dBm
	Limit-2 ABS1 Stop Level	–13.0 dBm
	Limit-3 ABS1 Stop Level	–46.0 dBm
	Limit-4 ABS1 Stop Level	–36.0 dBm
	Limit-5 ABS1 Stop Level	–36.0 dBm
	Limit-1 ABS2 Start Level	–27.0 dBm
	Limit-2 ABS2 Start Level	–27.0 dBm
	Limit-3 ABS2 Start Level	–27.0 dBm
	Limit-4 ABS2 Start Level	–27.0 dBm
	Limit-5 ABS2 Start Level	–27.0 dBm
	Limit-1 ABS2 Stop Level	–27.0 dBm
	Limit-2 ABS2 Stop Level	–27.0 dBm
	Limit-3 ABS2 Stop Level	–27.0 dBm
	Limit-4 ABS2 Stop Level	–27.0 dBm
	Limit-5 ABS2 Stop Level	–27.0 dBm
	Limit-1 REL Start Level	–45.0 dB
	Limit-2 REL Start Level	–55.0 dB
	Limit-3 REL Start Level	–55.0 dB
	Limit-4 REL Start Level	–55.0 dB
	Limit-5 REL Start Level	–55.0 dB
	Limit-1 REL Stop Level	–45.0 dB
	Limit-2 REL Stop Level	–55.0 dB
	Limit-3 REL Stop Level	–55.0 dB
	Limit-4 REL Stop Level	–55.0 dB
	Limit-5 REL Stop Level	–55.0 dB
	Limit-1 Fail Logic	REL
	Limit-2 Fail Logic	REL
	Limit-3 Fail Logic	ABS1
	Limit-4 Fail Logic	ABS1
	Limit-5 Fail Logic	ABS1
	Limit-6 Fail Logic	Off

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
CDMA2000 Forward Link Band Class 0,2,5,7,9,10 (28dBm ≤ Pout < 33dBm)	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Channel
	Channel BW	1.23 MHz
	RBW	30 kHz
	VBW	Auto
	Sweep Time	Auto
	Auto Sweep Time Select	Normal
	Detection	RMS
	Trace Point	101
	Filter Type	Rect
	Offset-1 Start Freq	765 kHz
	Offset-2 Start Freq	1.995 MHz
	Offset-3 Start Freq	3.2531 MHz
	Offset-4 Start Freq	4.0005 MHz
	Offset-5 Start Freq	6.405 MHz
	Offset-1 Stop Freq	1.995 MHz
	Offset-2 Stop Freq	4.015 MHz
	Offset-3 Stop Freq	4.0031 MHz
	Offset-4 Stop Freq	6.4005 MHz
	Offset-5 Stop Freq	16.005 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-3 Reference Level	Auto
	Offset-4 Reference Level	Auto
	Offset-5 Reference Level	Auto
	Offset-1 RBW	30 kHz
	Offset-2 RBW	30 kHz
	Offset-3 RBW	100 Hz
	Offset-4 RBW	1 kHz
	Offset-5 RBW	10 kHz
	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-3 Sweep Time	Auto
	Offset-4 Sweep Time	Auto
	Offset-5 Sweep Time	Auto

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
CDMA2000 Forward Link Band Class 0,2,5,7,9,10 (28dBm ≤ Pout < 33dBm)	Offset-1 Auto Sweep Time Select	Normal
	Offset-2 Auto Sweep Time Select	Normal
	Offset-3 Auto Sweep Time Select	Normal
	Offset-4 Auto Sweep Time Select	Normal
	Offset-5 Auto Sweep Time Select	Normal
	Offset-1 Detection	RMS
	Offset-2 Detection	RMS
	Offset-3 Detection	RMS
	Offset-4 Detection	RMS
	Offset-5 Detection	RMS
	Offset-1 Trace Point	101
	Offset-2 Trace Point	101
	Offset-3 Trace Point	10001
	Offset-4 Trace Point	5001
	Offset-5 Trace Point	1001
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto
	Offset-3 Integrate BW	6.25 kHz
	Offset-4 Integrate BW	Auto
	Offset-5 Integrate BW	Auto
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	Off
	Offset-4 On/Off	Off
	Offset-5 On/Off	Off
	Offset-6 On/Off	Off

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
CDMA2000 Forward Link Band Class 0,2,5,7,9,10 (28dBm ≤ Pout < 33dBm)	Limit-1 ABS1 Start Level	–13.0 dBm
	Limit-2 ABS1 Start Level	–27.0 dBm
	Limit-3 ABS1 Start Level	–46.0 dBm
	Limit-4 ABS1 Start Level	–36.0 dBm
	Limit-5 ABS1 Start Level	–36.0 dBm
	Limit-1 ABS1 Stop Level	–13.0 dBm
	Limit-2 ABS1 Stop Level	–27.0 dBm
	Limit-3 ABS1 Stop Level	–46.0 dBm
	Limit-4 ABS1 Stop Level	–36.0 dBm
	Limit-5 ABS1 Stop Level	–36.0 dBm
	Limit-1 ABS2 Start Level	–27.0 dBm
	Limit-2 ABS2 Start Level	–27.0 dBm
	Limit-3 ABS2 Start Level	–27.0 dBm
	Limit-4 ABS2 Start Level	–27.0 dBm
	Limit-5 ABS2 Start Level	–27.0 dBm
	Limit-1 ABS2 Stop Level	–27.0 dBm
	Limit-2 ABS2 Stop Level	–27.0 dBm
	Limit-3 ABS2 Stop Level	–27.0 dBm
	Limit-4 ABS2 Stop Level	–27.0 dBm
	Limit-5 ABS2 Stop Level	–27.0 dBm
	Limit-1 REL Start Level	–45.0 dB
	Limit-2 REL Start Level	–55.0 dB
	Limit-3 REL Start Level	–55.0 dB
	Limit-4 REL Start Level	–55.0 dB
	Limit-5 REL Start Level	–55.0 dB
	Limit-1 REL Stop Level	–45.0 dB
	Limit-2 REL Stop Level	–55.0 dB
	Limit-3 REL Stop Level	–55.0 dB
	Limit-4 REL Stop Level	–55.0 dB
	Limit-5 REL Stop Level	–55.0 dB
	Limit-1 Fail Logic	REL
	Limit-2 Fail Logic	ABS1
	Limit-3 Fail Logic	ABS1
	Limit-4 Fail Logic	ABS1
	Limit-5 Fail Logic	ABS1
	Limit-6 Fail Logic	Off

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
CDMA2000 Forward Link Band Class 0,2,5,7,9,10 (Pout ≥ 33dBm)	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Channel
	Channel BW	1.23 MHz
	RBW	30 kHz
	VBW	Auto
	Sweep Time	Auto
	Auto Sweep Time Select	Normal
	Detection	RMS
	Trace Point	101
	Filter Type	Rect
	Offset-1 Start Freq	765 kHz
	Offset-2 Start Freq	1.995 MHz
	Offset-3 Start Freq	3.2531 MHz
	Offset-4 Start Freq	4.0005 MHz
	Offset-5 Start Freq	6.405 MHz
	Offset-1 Stop Freq	1.995 MHz
	Offset-2 Stop Freq	4.015 MHz
	Offset-3 Stop Freq	4.0031 MHz
	Offset-4 Stop Freq	6.4005 MHz
	Offset-5 Stop Freq	16.005 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-3 Reference Level	Auto
	Offset-4 Reference Level	Auto
	Offset-5 Reference Level	Auto
	Offset-1 RBW	30 kHz
	Offset-2 RBW	30 kHz
	Offset-3 RBW	100 Hz
	Offset-4 RBW	1 kHz
	Offset-5 RBW	10 kHz
	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-3 Sweep Time	Auto
	Offset-4 Sweep Time	Auto
	Offset-5 Sweep Time	Auto

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
CDMA2000 Forward Link Band Class 0,2,5,7,9,10 (Pout ≥ 33dBm)	Offset-1 Auto Sweep Time Select	Normal
	Offset-2 Auto Sweep Time Select	Normal
	Offset-3 Auto Sweep Time Select	Normal
	Offset-4 Auto Sweep Time Select	Normal
	Offset-5 Auto Sweep Time Select	Normal
	Offset-1 Detection	RMS
	Offset-2 Detection	RMS
	Offset-3 Detection	RMS
	Offset-4 Detection	RMS
	Offset-5 Detection	RMS
	Offset-1 Trace Point	101
	Offset-2 Trace Point	101
	Offset-3 Trace Point	10001
	Offset-4 Trace Point	5001
	Offset-5 Trace Point	1001
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto
	Offset-3 Integrate BW	6.25 kHz
	Offset-4 Integrate BW	Auto
	Offset-5 Integrate BW	Auto
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	Off
	Offset-4 On/Off	Off
	Offset-5 On/Off	Off
	Offset-6 On/Off	Off

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
CDMA2000 Forward Link Band Class 0,2,5,7,9,10 (Pout ≥ 33dBm)	Limit-1 ABS1 Start Level	–13.0 dBm
	Limit-2 ABS1 Start Level	–13.0 dBm
	Limit-3 ABS1 Start Level	–46.0 dBm
	Limit-4 ABS1 Start Level	–36.0 dBm
	Limit-5 ABS1 Start Level	–36.0 dBm
	Limit-1 ABS1 Stop Level	–13.0 dBm
	Limit-2 ABS1 Stop Level	–13.0 dBm
	Limit-3 ABS1 Stop Level	–46.0 dBm
	Limit-4 ABS1 Stop Level	–36.0 dBm
	Limit-5 ABS1 Stop Level	–36.0 dBm
	Limit-1 ABS2 Start Level	–27.0 dBm
	Limit-2 ABS2 Start Level	–27.0 dBm
	Limit-3 ABS2 Start Level	–27.0 dBm
	Limit-4 ABS2 Start Level	–27.0 dBm
	Limit-5 ABS2 Start Level	–27.0 dBm
	Limit-1 ABS2 Stop Level	–27.0 dBm
	Limit-2 ABS2 Stop Level	–27.0 dBm
	Limit-3 ABS2 Stop Level	–27.0 dBm
	Limit-4 ABS2 Stop Level	–27.0 dBm
	Limit-5 ABS2 Stop Level	–27.0 dBm
	Limit-1 REL Start Level	–45.0 dB
	Limit-2 REL Start Level	–60.0 dB
	Limit-3 REL Start Level	–55.0 dB
	Limit-4 REL Start Level	–55.0 dB
	Limit-5 REL Start Level	–55.0 dB
	Limit-1 REL Stop Level	–45.0 dB
	Limit-2 REL Stop Level	–60.0 dB
	Limit-3 REL Stop Level	–55.0 dB
	Limit-4 REL Stop Level	–55.0 dB
	Limit-5 REL Stop Level	–55.0 dB
	Limit-1 Fail Logic	REL
	Limit-2 Fail Logic	REL
	Limit-3 Fail Logic	ABS1
	Limit-4 Fail Logic	ABS1
	Limit-5 Fail Logic	ABS1
	Limit-6 Fail Logic	Off

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
CDMA2000 Forward Link Band Class 1,4,8,14,15 (Pout < 28dBm)	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Channel
	Channel BW	1.23 MHz
	RBW	30 kHz
	VBW	Auto
	Sweep Time	Auto
	Auto Sweep Time Select	Normal
	Detection	RMS
	Trace Point	101
	Filter Type	Rect
	Offset-1 Start Freq	900 kHz
	Offset-2 Start Freq	1.265 MHz
	Offset-3 Start Freq	1.995 MHz
	Offset-4 Start Freq	2.75 MHz
	Offset-5 Start Freq	1.265 MHz
	Offset-6 Start Freq	4.015 MHz
	Offset-1 Stop Freq	1.265 MHz
	Offset-2 Stop Freq	1.995 MHz
	Offset-3 Stop Freq	2.265 MHz
	Offset-4 Stop Freq	4.5 MHz
	Offset-5 Stop Freq	2.265 MHz
	Offset-6 Stop Freq	16.015 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-3 Reference Level	Auto
	Offset-4 Reference Level	Auto
	Offset-5 Reference Level	Auto
	Offset-6 Reference Level	Auto
	Offset-1 RBW	30 kHz
	Offset-2 RBW	30 kHz
	Offset-3 RBW	30 kHz
	Offset-4 RBW	1 MHz
	Offset-5 RBW	30 kHz
	Offset-6 RBW	30 kHz

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
CDMA2000 Forward Link Band Class 1,4,8,14,15 (Pout < 28dBm)	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-3 Sweep Time	Auto
	Offset-4 Sweep Time	Auto
	Offset-5 Sweep Time	Auto
	Offset-6 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Normal
	Offset-2 Auto Sweep Time Select	Normal
	Offset-3 Auto Sweep Time Select	Normal
	Offset-4 Auto Sweep Time Select	Normal
	Offset-5 Auto Sweep Time Select	Normal
	Offset-6 Auto Sweep Time Select	Normal
	Offset-1 Detection	RMS
	Offset-2 Detection	RMS
	Offset-3 Detection	RMS
	Offset-4 Detection	RMS
	Offset-5 Detection	RMS
	Offset-6 Detection	RMS
	Offset-1 Trace Point	101
	Offset-2 Trace Point	101
	Offset-3 Trace Point	101
	Offset-4 Trace Point	101
	Offset-5 Trace Point	101
	Offset-6 Trace Point	501
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto
	Offset-3 Integrate BW	Auto
	Offset-4 Integrate BW	Auto
	Offset-5 Integrate BW	Auto
	Offset-6 Integrate BW	Auto

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
CDMA2000 Forward Link Band Class 1,4,8,14,15 (Pout < 28dBm)	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	On
	Offset-5 On/Off	Off
	Offset-6 On/Off	Off
	Limit-1 ABS1 Start Level	–13.0 dBm
	Limit-2 ABS1 Start Level	–9.0 dBm
	Limit-3 ABS1 Start Level	–9.0 dBm
	Limit-4 ABS1 Start Level	–13.0 dBm
	Limit-5 ABS1 Start Level	–9.0 dBm
	Limit-6 ABS1 Start Level	–30.0 dBm
	Limit-1 ABS1 Stop Level	–13.0 dBm
	Limit-2 ABS1 Stop Level	–9.0 dBm
	Limit-3 ABS1 Stop Level	–9.0 dBm
	Limit-4 ABS1 Stop Level	–13.0 dBm
	Limit-5 ABS1 Stop Level	–9.0 dBm
	Limit-6 ABS1 Stop Level	–30.0 dBm
	Limit-1 ABS2 Start Level	–27.0 dBm
	Limit-2 ABS2 Start Level	–27.0 dBm
	Limit-3 ABS2 Start Level	–22.0 dBm
	Limit-4 ABS2 Start Level	–27.0 dBm
	Limit-5 ABS2 Start Level	–27.0 dBm
	Limit-6 ABS2 Start Level	–27.0 dBm
	Limit-1 ABS2 Stop Level	–27.0 dBm
	Limit-2 ABS2 Stop Level	–27.0 dBm
	Limit-3 ABS2 Stop Level	–22.0 dBm
	Limit-4 ABS2 Stop Level	–27.0 dBm
	Limit-5 ABS2 Stop Level	–27.0 dBm
	Limit-6 ABS2 Stop Level	–27.0 dBm

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
CDMA2000 Forward Link Band Class 1,4,8,14,15 (Pout < 28dBm)	Limit-1 REL Start Level	–45.0 dB
	Limit-2 REL Start Level	–45.0 dB
	Limit-3 REL Start Level	–50.0 dB
	Limit-4 REL Start Level	–45.0 dB
	Limit-5 REL Start Level	–45.0 dB
	Limit-6 REL Start Level	–45.0 dB
	Limit-1 REL Stop Level	–45.0 dB
	Limit-2 REL Stop Level	–45.0 dB
	Limit-3 REL Stop Level	–50.0 dB
	Limit-4 REL Stop Level	–45.0 dB
	Limit-5 REL Stop Level	–45.0 dB
	Limit-6 REL Stop Level	–45.0 dB
	Limit-1 Fail Logic	REL
	Limit-2 Fail Logic	ABS1 and REL
	Limit-3 Fail Logic	REL
	Limit-4 Fail Logic	ABS1
	Limit-5 Fail Logic	ABS1
	Limit-6 Fail Logic	ABS1

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
CDMA2000 Forward Link Band Class 1,4,8,14,15 (28dBm ≤ Pout < 33dBm)	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Channel
	Channel BW	1.23 MHz
	RBW	30 kHz
	VBW	Auto
	Sweep Time	Auto
	Auto Sweep Time Select	Normal
	Detection	RMS
	Trace Point	101
	Filter Type	Rect
	Offset-1 Start Freq	900 kHz
	Offset-2 Start Freq	1.265 MHz
	Offset-3 Start Freq	1.995 MHz
	Offset-4 Start Freq	2.75 MHz
	Offset-5 Start Freq	1.265 MHz
	Offset-6 Start Freq	4.015 MHz
	Offset-1 Stop Freq	1.265 MHz
	Offset-2 Stop Freq	1.995 MHz
	Offset-3 Stop Freq	2.265 MHz
	Offset-4 Stop Freq	4.5 MHz
	Offset-5 Stop Freq	2.265 MHz
	Offset-6 Stop Freq	16.015 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-3 Reference Level	Auto
	Offset-4 Reference Level	Auto
	Offset-5 Reference Level	Auto
	Offset-6 Reference Level	Auto
	Offset-1 RBW	30 kHz
	Offset-2 RBW	30 kHz
	Offset-3 RBW	30 kHz
	Offset-4 RBW	1 MHz
	Offset-5 RBW	30 kHz
	Offset-6 RBW	30 kHz

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
CDMA2000 Forward Link Band Class 1,4,8,14,15 (28dBm ≤ Pout < 33dBm)	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-3 Sweep Time	Auto
	Offset-4 Sweep Time	Auto
	Offset-5 Sweep Time	Auto
	Offset-6 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Normal
	Offset-2 Auto Sweep Time Select	Normal
	Offset-3 Auto Sweep Time Select	Normal
	Offset-4 Auto Sweep Time Select	Normal
	Offset-5 Auto Sweep Time Select	Normal
	Offset-6 Auto Sweep Time Select	Normal
	Offset-1 Detection	RMS
	Offset-2 Detection	RMS
	Offset-3 Detection	RMS
	Offset-4 Detection	RMS
	Offset-5 Detection	RMS
	Offset-6 Detection	RMS
	Offset-1 Trace Point	101
	Offset-2 Trace Point	101
	Offset-3 Trace Point	101
	Offset-4 Trace Point	101
	Offset-5 Trace Point	101
	Offset-6 Trace Point	501
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto
	Offset-3 Integrate BW	Auto
	Offset-4 Integrate BW	Auto
	Offset-5 Integrate BW	Auto
	Offset-6 Integrate BW	Auto

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
CDMA2000 Forward Link Band Class 1,4,8,14,15 (28dBm ≤ Pout < 33dBm)	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	On
	Offset-5 On/Off	Off
	Offset-6 On/Off	Off
	Limit-1 ABS1 Start Level	–13.0 dBm
	Limit-2 ABS1 Start Level	–9.0 dBm
	Limit-3 ABS1 Start Level	–22.0 dBm
	Limit-4 ABS1 Start Level	–13.0 dBm
	Limit-5 ABS1 Start Level	–9.0 dBm
	Limit-6 ABS1 Start Level	–30.0 dBm
	Limit-1 ABS1 Stop Level	–13.0 dBm
	Limit-2 ABS1 Stop Level	–9.0 dBm
	Limit-3 ABS1 Stop Level	–22.0 dBm
	Limit-4 ABS1 Stop Level	–13.0 dBm
	Limit-5 ABS1 Stop Level	–9.0 dBm
	Limit-6 ABS1 Stop Level	–30.0 dBm
	Limit-1 ABS2 Start Level	–27.0 dBm
	Limit-2 ABS2 Start Level	–27.0 dBm
	Limit-3 ABS2 Start Level	–9.0 dBm
	Limit-4 ABS2 Start Level	–27.0 dBm
	Limit-5 ABS2 Start Level	–27.0 dBm
	Limit-6 ABS2 Start Level	–27.0 dBm
	Limit-1 ABS2 Stop Level	–27.0 dBm
	Limit-2 ABS2 Stop Level	–27.0 dBm
	Limit-3 ABS2 Stop Level	–9.0 dBm
	Limit-4 ABS2 Stop Level	–27.0 dBm
	Limit-5 ABS2 Stop Level	–27.0 dBm
	Limit-6 ABS2 Stop Level	–27.0 dBm

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
CDMA2000 Forward Link Band Class 1,4,8,14,15 (28dBm ≤ Pout < 33dBm)	Limit-1 REL Start Level	–45.0 dB
	Limit-2 REL Start Level	–45.0 dB
	Limit-3 REL Start Level	–50.0 dB
	Limit-4 REL Start Level	–45.0 dB
	Limit-5 REL Start Level	–45.0 dB
	Limit-6 REL Start Level	–45.0 dB
	Limit-1 REL Stop Level	–45.0 dB
	Limit-2 REL Stop Level	–45.0 dB
	Limit-3 REL Stop Level	–50.0 dB
	Limit-4 REL Stop Level	–45.0 dB
	Limit-5 REL Stop Level	–45.0 dB
	Limit-6 REL Stop Level	–45.0 dB
	Limit-1 Fail Logic	REL
	Limit-2 Fail Logic	ABS1 and REL
	Limit-3 Fail Logic	ABS1
	Limit-4 Fail Logic	ABS1
	Limit-5 Fail Logic	ABS1
	Limit-6 Fail Logic	ABS1

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
CDMA2000 Forward Link Band Class 1,4,8,14,15 (Pout ≥ 33dBm)	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Channel
	Channel BW	1.23 MHz
	RBW	30 kHz
	VBW	Auto
	Sweep Time	Auto
	Auto Sweep Time Select	Normal
	Detection	RMS
	Trace Point	101
	Filter Type	Rect
	Offset-1 Start Freq	900 kHz
	Offset-2 Start Freq	1.265 MHz
	Offset-3 Start Freq	1.995 MHz
	Offset-4 Start Freq	2.75 MHz
	Offset-5 Start Freq	1.265 MHz
	Offset-6 Start Freq	4.015 MHz
	Offset-1 Stop Freq	1.265 MHz
	Offset-2 Stop Freq	1.995 MHz
	Offset-3 Stop Freq	2.265 MHz
	Offset-4 Stop Freq	4.5 MHz
	Offset-5 Stop Freq	2.265 MHz
	Offset-6 Stop Freq	16.015 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-3 Reference Level	Auto
	Offset-4 Reference Level	Auto
	Offset-5 Reference Level	Auto
	Offset-6 Reference Level	Auto
	Offset-1 RBW	30 kHz
	Offset-2 RBW	30 kHz
	Offset-3 RBW	30 kHz
	Offset-4 RBW	1 MHz
	Offset-5 RBW	30 kHz
	Offset-6 RBW	30 kHz

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
CDMA2000 Forward Link Band Class 1,4,8,14,15 (Pout ≥ 33dBm)	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-3 Sweep Time	Auto
	Offset-4 Sweep Time	Auto
	Offset-5 Sweep Time	Auto
	Offset-6 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Normal
	Offset-2 Auto Sweep Time Select	Normal
	Offset-3 Auto Sweep Time Select	Normal
	Offset-4 Auto Sweep Time Select	Normal
	Offset-5 Auto Sweep Time Select	Normal
	Offset-6 Auto Sweep Time Select	Normal
	Offset-1 Detection	RMS
	Offset-2 Detection	RMS
	Offset-3 Detection	RMS
	Offset-4 Detection	RMS
	Offset-5 Detection	RMS
	Offset-6 Detection	RMS
	Offset-1 Trace Point	101
	Offset-2 Trace Point	101
	Offset-3 Trace Point	101
	Offset-4 Trace Point	101
	Offset-5 Trace Point	101
	Offset-6 Trace Point	501
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto
	Offset-3 Integrate BW	Auto
	Offset-4 Integrate BW	Auto
	Offset-5 Integrate BW	Auto
	Offset-6 Integrate BW	Auto

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
CDMA2000 Forward Link Band Class 1,4,8,14,15 (Pout ≥ 33dBm)	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	On
	Offset-5 On/Off	Off
	Offset-6 On/Off	Off
	Limit-1 ABS1 Start Level	–13.0 dBm
	Limit-2 ABS1 Start Level	–9.0 dBm
	Limit-3 ABS1 Start Level	–9.0 dBm
	Limit-4 ABS1 Start Level	–13.0 dBm
	Limit-5 ABS1 Start Level	–9.0 dBm
	Limit-6 ABS1 Start Level	–30.0 dBm
	Limit-1 ABS1 Stop Level	–13.0 dBm
	Limit-2 ABS1 Stop Level	–9.0 dBm
	Limit-3 ABS1 Stop Level	–9.0 dBm
	Limit-4 ABS1 Stop Level	–13.0 dBm
	Limit-5 ABS1 Stop Level	–9.0 dBm
	Limit-6 ABS1 Stop Level	–30.0 dBm
	Limit-1 ABS2 Start Level	–27.0 dBm
	Limit-2 ABS2 Start Level	–27.0 dBm
	Limit-3 ABS2 Start Level	–22.0 dBm
	Limit-4 ABS2 Start Level	–27.0 dBm
	Limit-5 ABS2 Start Level	–27.0 dBm
	Limit-6 ABS2 Start Level	–27.0 dBm
	Limit-1 ABS2 Stop Level	–27.0 dBm
	Limit-2 ABS2 Stop Level	–27.0 dBm
	Limit-3 ABS2 Stop Level	–22.0 dBm
	Limit-4 ABS2 Stop Level	–27.0 dBm
	Limit-5 ABS2 Stop Level	–27.0 dBm
	Limit-6 ABS2 Stop Level	–27.0 dBm

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
CDMA2000 Forward Link Band Class 1,4,8,14,15 (Pout ≥ 33dBm)	Limit-1 REL Start Level	–45.0 dB
	Limit-2 REL Start Level	–45.0 dB
	Limit-3 REL Start Level	–55.0 dB
	Limit-4 REL Start Level	–45.0 dB
	Limit-5 REL Start Level	–45.0 dB
	Limit-6 REL Start Level	–45.0 dB
	Limit-1 REL Stop Level	–45.0 dB
	Limit-2 REL Stop Level	–45.0 dB
	Limit-3 REL Stop Level	–55.0 dB
	Limit-4 REL Stop Level	–45.0 dB
	Limit-5 REL Stop Level	–45.0 dB
	Limit-6 REL Stop Level	–45.0 dB
	Limit-1 Fail Logic	REL
	Limit-2 Fail Logic	ABS1 and REL
	Limit-3 Fail Logic	REL
	Limit-4 Fail Logic	ABS1
	Limit-5 Fail Logic	ABS1
	Limit-6 Fail Logic	ABS1

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
CDMA2000 Forward Link Band Class 6 (Pout < 28dBm)	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Channel
	Channel BW	1.23 MHz
	RBW	30 kHz
	VBW	Auto
	Sweep Time	Auto
	Auto Sweep Time Select	Normal
	Detection	RMS
	Trace Point	101
	Filter Type	Rect
	Offset-1 Start Freq	900 kHz
	Offset-2 Start Freq	1.265 MHz
	Offset-3 Start Freq	1.465 MHz
	Offset-4 Start Freq	1.995 MHz
	Offset-5 Start Freq	2.75 MHz
	Offset-6 Start Freq	4.015 MHz
	Offset-1 Stop Freq	1.995 MHz
	Offset-2 Stop Freq	1.465 MHz
	Offset-3 Stop Freq	2.265 MHz
	Offset-4 Stop Freq	2.265 MHz
	Offset-5 Stop Freq	4.5 MHz
	Offset-6 Stop Freq	16.015 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-3 Reference Level	Auto
	Offset-4 Reference Level	Auto
	Offset-5 Reference Level	Auto
	Offset-6 Reference Level	Auto
	Offset-1 RBW	30 kHz
	Offset-2 RBW	30 kHz
	Offset-3 RBW	30 kHz
	Offset-4 RBW	30 kHz
	Offset-5 RBW	1 MHz
	Offset-6 RBW	30 kHz

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
CDMA2000 Forward Link Band Class 6 (Pout < 28dBm)	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-3 Sweep Time	Auto
	Offset-4 Sweep Time	Auto
	Offset-5 Sweep Time	Auto
	Offset-6 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Normal
	Offset-2 Auto Sweep Time Select	Normal
	Offset-3 Auto Sweep Time Select	Normal
	Offset-4 Auto Sweep Time Select	Normal
	Offset-5 Auto Sweep Time Select	Normal
	Offset-6 Auto Sweep Time Select	Normal
	Offset-1 Detection	RMS
	Offset-2 Detection	RMS
	Offset-3 Detection	RMS
	Offset-4 Detection	RMS
	Offset-5 Detection	RMS
	Offset-6 Detection	RMS
	Offset-1 Trace Point	101
	Offset-2 Trace Point	101
	Offset-3 Trace Point	101
	Offset-4 Trace Point	101
	Offset-5 Trace Point	101
	Offset-6 Trace Point	501
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto
	Offset-3 Integrate BW	Auto
	Offset-4 Integrate BW	Auto
	Offset-5 Integrate BW	Auto
	Offset-6 Integrate BW	Auto

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
CDMA2000 Forward Link Band Class 6 (Pout < 28dBm)	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	On
	Offset-5 On/Off	On
	Offset-6 On/Off	Off
	Limit-1 ABS1 Start Level	–13.0 dBm
	Limit-2 ABS1 Start Level	–13.0 dBm
	Limit-3 ABS1 Start Level	–13.0 dBm
	Limit-4 ABS1 Start Level	–9.0 dBm
	Limit-5 ABS1 Start Level	–13.0 dBm
	Limit-6 ABS1 Start Level	–30.0 dBm
	Limit-1 ABS1 Stop Level	–13.0 dBm
	Limit-2 ABS1 Stop Level	–13.0 dBm
	Limit-3 ABS1 Stop Level	–26.6 dBm
	Limit-4 ABS1 Stop Level	–9.0 dBm
	Limit-5 ABS1 Stop Level	–13.0 dBm
	Limit-6 ABS1 Stop Level	–30.0 dBm
	Limit-1 ABS2 Start Level	–27.0 dBm
	Limit-2 ABS2 Start Level	–27.0 dBm
	Limit-3 ABS2 Start Level	–22.0 dBm
	Limit-4 ABS2 Start Level	–22.0 dBm
	Limit-5 ABS2 Start Level	–27.0 dBm
	Limit-6 ABS2 Start Level	–27.0 dBm
	Limit-1 ABS2 Stop Level	–27.0 dBm
	Limit-2 ABS2 Stop Level	–27.0 dBm
	Limit-3 ABS2 Stop Level	–22.0 dBm
	Limit-4 ABS2 Stop Level	–22.0 dBm
	Limit-5 ABS2 Stop Level	–27.0 dBm
	Limit-6 ABS2 Stop Level	–27.0 dBm

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
CDMA2000 Forward Link Band Class 6 (Pout < 28dBm)	Limit-1 REL Start Level	–45.0 dB
	Limit-2 REL Start Level	–45.0 dB
	Limit-3 REL Start Level	–55.0 dB
	Limit-4 REL Start Level	–50.0 dB
	Limit-5 REL Start Level	–45.0 dB
	Limit-6 REL Start Level	–45.0 dB
	Limit-1 REL Stop Level	–45.0 dB
	Limit-2 REL Stop Level	–45.0 dB
	Limit-3 REL Stop Level	–55.0 dB
	Limit-4 REL Stop Level	–50.0 dB
	Limit-5 REL Stop Level	–45.0 dB
	Limit-6 REL Stop Level	–45.0 dB
	Limit-1 Fail Logic	REL
	Limit-2 Fail Logic	ABS1
	Limit-3 Fail Logic	ABS1
	Limit-4 Fail Logic	REL
	Limit-5 Fail Logic	ABS1
	Limit-6 Fail Logic	ABS1

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
CDMA2000 Forward Link Band Class 6 (28dBm ≤ Pout < 33dBm)	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Channel
	Channel BW	1.23 MHz
	RBW	30 kHz
	VBW	Auto
	Sweep Time	Auto
	Auto Sweep Time Select	Normal
	Detection	RMS
	Trace Point	101
	Filter Type	Rect
	Offset-1 Start Freq	900 kHz
	Offset-2 Start Freq	1.265 MHz
	Offset-3 Start Freq	1.465 MHz
	Offset-4 Start Freq	1.995 MHz
	Offset-5 Start Freq	2.75 MHz
	Offset-6 Start Freq	4.015 MHz
	Offset-1 Stop Freq	1.995 MHz
	Offset-2 Stop Freq	1.465 MHz
	Offset-3 Stop Freq	2.265 MHz
	Offset-4 Stop Freq	2.265 MHz
	Offset-5 Stop Freq	4.5 MHz
	Offset-6 Stop Freq	16.015 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-3 Reference Level	Auto
	Offset-4 Reference Level	Auto
	Offset-5 Reference Level	Auto
	Offset-6 Reference Level	Auto
	Offset-1 RBW	30 kHz
	Offset-2 RBW	30 kHz
	Offset-3 RBW	30 kHz
	Offset-4 RBW	30 kHz
	Offset-5 RBW	1 MHz
	Offset-6 RBW	30 kHz

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
CDMA2000 Forward Link Band Class 6 (28dBm ≤ Pout < 33dBm)	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-3 Sweep Time	Auto
	Offset-4 Sweep Time	Auto
	Offset-5 Sweep Time	Auto
	Offset-6 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Normal
	Offset-2 Auto Sweep Time Select	Normal
	Offset-3 Auto Sweep Time Select	Normal
	Offset-4 Auto Sweep Time Select	Normal
	Offset-5 Auto Sweep Time Select	Normal
	Offset-6 Auto Sweep Time Select	Normal
	Offset-1 Detection	RMS
	Offset-2 Detection	RMS
	Offset-3 Detection	RMS
	Offset-4 Detection	RMS
	Offset-5 Detection	RMS
	Offset-6 Detection	RMS
	Offset-1 Trace Point	101
	Offset-2 Trace Point	101
	Offset-3 Trace Point	101
	Offset-4 Trace Point	101
	Offset-5 Trace Point	101
	Offset-6 Trace Point	501
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto
	Offset-3 Integrate BW	Auto
	Offset-4 Integrate BW	Auto
	Offset-5 Integrate BW	Auto
	Offset-6 Integrate BW	Auto

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
CDMA2000 Forward Link Band Class 6 (28dBm ≤ Pout < 33dBm)	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	Off
	Offset-5 On/Off	On
	Offset-6 On/Off	Off
	Limit-1 ABS1 Start Level	–13.0 dBm
	Limit-2 ABS1 Start Level	–13.0 dBm
	Limit-3 ABS1 Start Level	–13.0 dBm
	Limit-4 ABS1 Start Level	–9.0 dBm
	Limit-5 ABS1 Start Level	–13.0 dBm
	Limit-6 ABS1 Start Level	–30.0 dBm
	Limit-1 ABS1 Stop Level	–13.0 dBm
	Limit-2 ABS1 Stop Level	–13.0 dBm
	Limit-3 ABS1 Stop Level	–26.6 dBm
	Limit-4 ABS1 Stop Level	–9.0 dBm
	Limit-5 ABS1 Stop Level	–13.0 dBm
	Limit-6 ABS1 Stop Level	–30.0 dBm
	Limit-1 ABS2 Start Level	–27.0 dBm
	Limit-2 ABS2 Start Level	–27.0 dBm
	Limit-3 ABS2 Start Level	–22.0 dBm
	Limit-4 ABS2 Start Level	–22.0 dBm
	Limit-5 ABS2 Start Level	–27.0 dBm
	Limit-6 ABS2 Start Level	–27.0 dBm
	Limit-1 ABS2 Stop Level	–27.0 dBm
	Limit-2 ABS2 Stop Level	–27.0 dBm
	Limit-3 ABS2 Stop Level	–22.0 dBm
	Limit-4 ABS2 Stop Level	–22.0 dBm
	Limit-5 ABS2 Stop Level	–27.0 dBm
	Limit-6 ABS2 Stop Level	–27.0 dBm

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
CDMA2000 Forward Link Band Class 6 (28dBm ≤ Pout < 33dBm)	Limit-1 REL Start Level	–45.0 dB
	Limit-2 REL Start Level	–45.0 dB
	Limit-3 REL Start Level	–55.0 dB
	Limit-4 REL Start Level	–50.0 dB
	Limit-5 REL Start Level	–45.0 dB
	Limit-6 REL Start Level	–45.0 dB
	Limit-1 REL Stop Level	–45.0 dB
	Limit-2 REL Stop Level	–45.0 dB
	Limit-3 REL Stop Level	–55.0 dB
	Limit-4 REL Stop Level	–50.0 dB
	Limit-5 REL Stop Level	–45.0 dB
	Limit-6 REL Stop Level	–45.0 dB
	Limit-1 Fail Logic	REL
	Limit-2 Fail Logic	ABS1
	Limit-3 Fail Logic	ABS1
	Limit-4 Fail Logic	REL
	Limit-5 Fail Logic	ABS1
	Limit-6 Fail Logic	ABS1

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
CDMA2000 Forward Link Band Class 6 (Pout ≥ 33dBm)	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Channel
	Channel BW	1.23 MHz
	RBW	30 kHz
	VBW	Auto
	Sweep Time	Auto
	Auto Sweep Time Select	Normal
	Detection	RMS
	Trace Point	101
	Filter Type	Rect
	Offset-1 Start Freq	900 kHz
	Offset-2 Start Freq	1.265 MHz
	Offset-3 Start Freq	1.465 MHz
	Offset-4 Start Freq	1.995 MHz
	Offset-5 Start Freq	2.75 MHz
	Offset-6 Start Freq	4.015 MHz
	Offset-1 Stop Freq	1.995 MHz
	Offset-2 Stop Freq	1.465 MHz
	Offset-3 Stop Freq	2.265 MHz
	Offset-4 Stop Freq	2.265 MHz
	Offset-5 Stop Freq	4.5 MHz
	Offset-6 Stop Freq	16.015 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-3 Reference Level	Auto
	Offset-4 Reference Level	Auto
	Offset-5 Reference Level	Auto
	Offset-6 Reference Level	Auto
	Offset-1 RBW	30 kHz
	Offset-2 RBW	30 kHz
	Offset-3 RBW	30 kHz
	Offset-4 RBW	30 kHz
	Offset-5 RBW	1 MHz
	Offset-6 RBW	30 kHz

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
CDMA2000 Forward Link Band Class 6 (Pout ≥ 33dBm)	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-3 Sweep Time	Auto
	Offset-4 Sweep Time	Auto
	Offset-5 Sweep Time	Auto
	Offset-6 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Normal
	Offset-2 Auto Sweep Time Select	Normal
	Offset-3 Auto Sweep Time Select	Normal
	Offset-4 Auto Sweep Time Select	Normal
	Offset-5 Auto Sweep Time Select	Normal
	Offset-6 Auto Sweep Time Select	Normal
	Offset-1 Detection	RMS
	Offset-2 Detection	RMS
	Offset-3 Detection	RMS
	Offset-4 Detection	RMS
	Offset-5 Detection	RMS
	Offset-6 Detection	RMS
	Offset-1 Trace Point	101
	Offset-2 Trace Point	101
	Offset-3 Trace Point	101
	Offset-4 Trace Point	101
	Offset-5 Trace Point	101
	Offset-6 Trace Point	501
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto
	Offset-3 Integrate BW	Auto
	Offset-4 Integrate BW	Auto
	Offset-5 Integrate BW	Auto
	Offset-6 Integrate BW	Auto

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
CDMA2000 Forward Link Band Class 6 (Pout ≥ 33dBm)	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	On
	Offset-5 On/Off	On
	Offset-6 On/Off	Off
	Limit-1 ABS1 Start Level	–13.0 dBm
	Limit-2 ABS1 Start Level	–13.0 dBm
	Limit-3 ABS1 Start Level	–13.0 dBm
	Limit-4 ABS1 Start Level	–9.0 dBm
	Limit-5 ABS1 Start Level	–13.0 dBm
	Limit-6 ABS1 Start Level	–30.0 dBm
	Limit-1 ABS1 Stop Level	–13.0 dBm
	Limit-2 ABS1 Stop Level	–13.0 dBm
	Limit-3 ABS1 Stop Level	–26.6 dBm
	Limit-4 ABS1 Stop Level	–9.0 dBm
	Limit-5 ABS1 Stop Level	–13.0 dBm
	Limit-6 ABS1 Stop Level	–30.0 dBm
	Limit-1 ABS2 Start Level	–27.0 dBm
	Limit-2 ABS2 Start Level	–27.0 dBm
	Limit-3 ABS2 Start Level	–22.0 dBm
	Limit-4 ABS2 Start Level	–22.0 dBm
	Limit-5 ABS2 Start Level	–27.0 dBm
	Limit-6 ABS2 Start Level	–27.0 dBm
	Limit-1 ABS2 Stop Level	–27.0 dBm
	Limit-2 ABS2 Stop Level	–27.0 dBm
	Limit-3 ABS2 Stop Level	–22.0 dBm
	Limit-4 ABS2 Stop Level	–22.0 dBm
	Limit-5 ABS2 Stop Level	–27.0 dBm
	Limit-6 ABS2 Stop Level	–27.0 dBm

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
CDMA2000 Forward Link Band Class 6 (Pout ≥ 33dBm)	Limit-1 REL Start Level	–45.0 dB
	Limit-2 REL Start Level	–45.0 dB
	Limit-3 REL Start Level	–55.0 dB
	Limit-4 REL Start Level	–55.0 dB
	Limit-5 REL Start Level	–45.0 dB
	Limit-6 REL Start Level	–45.0 dB
	Limit-1 REL Stop Level	–45.0 dB
	Limit-2 REL Stop Level	–45.0 dB
	Limit-3 REL Stop Level	–55.0 dB
	Limit-4 REL Stop Level	–55.0 dB
	Limit-5 REL Stop Level	–45.0 dB
	Limit-6 REL Stop Level	–45.0 dB
	Limit-1 Fail Logic	REL
	Limit-2 Fail Logic	ABS1
	Limit-3 Fail Logic	ABS1
	Limit-4 Fail Logic	REL
	Limit-5 Fail Logic	ABS1
	Limit-6 Fail Logic	ABS1

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
CDMA2000 Forward Link Band Class 11,12	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Channel
	Channel BW	1.23 MHz
	RBW	30 kHz
	VBW	Auto
	Sweep Time	Auto
	Auto Sweep Time Select	Normal
	Detection	RMS
	Trace Point	101
	Filter Type	Rect
	Offset-1 Start Freq	765 kHz
	Offset-2 Start Freq	900 kHz
	Offset-3 Start Freq	1.14 MHz
	Offset-4 Start Freq	1.995 MHz
	Offset-5 Start Freq	4.05 MHz
	Offset-1 Stop Freq	900 kHz
	Offset-2 Stop Freq	1.14 MHz
	Offset-3 Stop Freq	1.995 MHz
	Offset-4 Stop Freq	4.015 MHz
	Offset-5 Stop Freq	6.05 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-3 Reference Level	Auto
	Offset-4 Reference Level	Auto
	Offset-5 Reference Level	Auto
	Offset-1 RBW	30 kHz
	Offset-2 RBW	30 kHz
	Offset-3 RBW	30 kHz
	Offset-4 RBW	30 kHz
	Offset-5 RBW	100 kHz
	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-3 Sweep Time	Auto
	Offset-4 Sweep Time	Auto
	Offset-5 Sweep Time	Auto

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
CDMA2000 Forward Link Band Class 11,12	Offset-1 Auto Sweep Time Select	Normal
	Offset-2 Auto Sweep Time Select	Normal
	Offset-3 Auto Sweep Time Select	Normal
	Offset-4 Auto Sweep Time Select	Normal
	Offset-5 Auto Sweep Time Select	Normal
	Offset-1 Detection	RMS
	Offset-2 Detection	RMS
	Offset-3 Detection	RMS
	Offset-4 Detection	RMS
	Offset-5 Detection	RMS
	Offset-1 Trace Point	101
	Offset-2 Trace Point	101
	Offset-3 Trace Point	101
	Offset-4 Trace Point	101
	Offset-5 Trace Point	101
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto
	Offset-3 Integrate BW	Auto
	Offset-4 Integrate BW	Auto
	Offset-5 Integrate BW	Auto
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	On
	Offset-5 On/Off	On
	Offset-6 On/Off	Off

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
CDMA2000 Forward Link Band Class 11,12	Limit-1 ABS1 Start Level	–13.0 dBm
	Limit-2 ABS1 Start Level	–9.0 dBm
	Limit-3 ABS1 Start Level	–9.0 dBm
	Limit-4 ABS1 Start Level	–13.0 dBm
	Limit-5 ABS1 Start Level	–36.0 dBm
	Limit-1 ABS1 Stop Level	–13.0 dBm
	Limit-2 ABS1 Stop Level	–9.0 dBm
	Limit-3 ABS1 Stop Level	–9.0 dBm
	Limit-4 ABS1 Stop Level	–13.0 dBm
	Limit-5 ABS1 Stop Level	–36.0 dBm
	Limit-1 ABS2 Start Level	–27.0 dBm
	Limit-2 ABS2 Start Level	–27.0 dBm
	Limit-3 ABS2 Start Level	–22.0 dBm
	Limit-4 ABS2 Start Level	–27.0 dBm
	Limit-5 ABS2 Start Level	–27.0 dBm
	Limit-1 ABS2 Stop Level	–27.0 dBm
	Limit-2 ABS2 Stop Level	–27.0 dBm
	Limit-3 ABS2 Stop Level	–22.0 dBm
	Limit-4 ABS2 Stop Level	–27.0 dBm
	Limit-5 ABS2 Stop Level	–27.0 dBm
	Limit-1 REL Start Level	–45.0 dB
	Limit-2 REL Start Level	–60.0 dB
	Limit-3 REL Start Level	–65.0 dB
	Limit-4 REL Start Level	–75.0 dB
	Limit-5 REL Start Level	–70.0 dB
	Limit-1 REL Stop Level	–60.0 dB
	Limit-2 REL Stop Level	–65.0 dB
	Limit-3 REL Stop Level	–65.0 dB
	Limit-4 REL Stop Level	–75.0 dB
	Limit-5 REL Stop Level	–70.0 dB
	Limit-1 Fail Logic	REL
	Limit-2 Fail Logic	REL
	Limit-3 Fail Logic	REL
	Limit-4 Fail Logic	REL
	Limit-5 Fail Logic	ABS1

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Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
EV-DO Forward Link Band Class 0,2,5,7,9,10	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Channel
	Channel BW	1.23 MHz
	RBW	30 kHz
	VBW	Auto
	Sweep Time	20 ms
	Auto Sweep Time Select	Normal
	Detection	RMS
	Trace Point	101
	Filter Type	Rect
	Offset-1 Start Freq	765 kHz
	Offset-2 Start Freq	1.995 MHz
	Offset-3 Start Freq	3.2531 MHz
	Offset-4 Start Freq	4.0005 MHz
	Offset-5 Start Freq	6.405 MHz
	Offset-1 Stop Freq	1.995 MHz
	Offset-2 Stop Freq	4.015 MHz
	Offset-3 Stop Freq	4.0031 MHz
	Offset-4 Stop Freq	6.4005 MHz
	Offset-5 Stop Freq	16.005 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-3 Reference Level	Auto
	Offset-4 Reference Level	Auto
	Offset-5 Reference Level	Auto
	Offset-1 RBW	30 kHz
	Offset-2 RBW	30 kHz
	Offset-3 RBW	100 Hz
	Offset-4 RBW	1 kHz
	Offset-5 RBW	10 kHz
	Offset-1 Sweep Time	20 ms
	Offset-2 Sweep Time	20 ms
	Offset-3 Sweep Time	Auto
	Offset-4 Sweep Time	Auto
	Offset-5 Sweep Time	Auto

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
EV-DO Forward Link Band Class 0,2,5,7,9,10	Offset-1 Auto Sweep Time Select	Normal
	Offset-2 Auto Sweep Time Select	Normal
	Offset-3 Auto Sweep Time Select	Normal
	Offset-4 Auto Sweep Time Select	Normal
	Offset-5 Auto Sweep Time Select	Normal
	Offset-1 Detection	RMS
	Offset-2 Detection	RMS
	Offset-3 Detection	RMS
	Offset-4 Detection	RMS
	Offset-5 Detection	RMS
	Offset-1 Trace Point	101
	Offset-2 Trace Point	101
	Offset-3 Trace Point	10001
	Offset-4 Trace Point	5001
	Offset-5 Trace Point	1001
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto
	Offset-3 Integrate BW	6.25 kHz
	Offset-4 Integrate BW	Auto
	Offset-5 Integrate BW	Auto
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	Off
	Offset-4 On/Off	Off
	Offset-5 On/Off	Off
	Offset-6 On/Off	Off

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
EV-DO Forward Link Band Class 0,2,5,7,9,10	Limit-1 ABS1 Start Level	–13.0 dBm
	Limit-2 ABS1 Start Level	–13.0 dBm
	Limit-3 ABS1 Start Level	–46.0 dBm
	Limit-4 ABS1 Start Level	–36.0 dBm
	Limit-5 ABS1 Start Level	–36.0 dBm
	Limit-1 ABS1 Stop Level	–13.0 dBm
	Limit-2 ABS1 Stop Level	–13.0 dBm
	Limit-3 ABS1 Stop Level	–46.0 dBm
	Limit-4 ABS1 Stop Level	–36.0 dBm
	Limit-5 ABS1 Stop Level	–36.0 dBm
	Limit-1 ABS2 Start Level	–27.0 dBm
	Limit-2 ABS2 Start Level	–27.0 dBm
	Limit-3 ABS2 Start Level	–27.0 dBm
	Limit-4 ABS2 Start Level	–27.0 dBm
	Limit-5 ABS2 Start Level	–27.0 dBm
	Limit-1 ABS2 Stop Level	–27.0 dBm
	Limit-2 ABS2 Stop Level	–27.0 dBm
	Limit-3 ABS2 Stop Level	–27.0 dBm
	Limit-4 ABS2 Stop Level	–27.0 dBm
	Limit-5 ABS2 Stop Level	–27.0 dBm
	Limit-1 REL Start Level	–45.0 dB
	Limit-2 REL Start Level	–60.0 dB
	Limit-3 REL Start Level	–55.0 dB
	Limit-4 REL Start Level	–55.0 dB
	Limit-5 REL Start Level	–55.0 dB
	Limit-1 REL Stop Level	–45.0 dB
	Limit-2 REL Stop Level	–60.0 dB
	Limit-3 REL Stop Level	–55.0 dB
	Limit-4 REL Stop Level	–55.0 dB
	Limit-5 REL Stop Level	–55.0 dB
	Limit-1 Fail Logic	REL
	Limit-2 Fail Logic	REL
	Limit-3 Fail Logic	ABS1
	Limit-4 Fail Logic	ABS1
	Limit-5 Fail Logic	ABS1
	Limit-6 Fail Logic	Off

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
EV-DO Forward Link Band Class 1,4,14,15	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Channel
	Channel BW	1.23 MHz
	RBW	30 kHz
	VBW	Auto
	Sweep Time	20 ms
	Auto Sweep Time Select	Normal
	Detection	RMS
	Trace Point	101
	Filter Type	Rect
	Offset-1 Start Freq	900 kHz
	Offset-2 Start Freq	1.265 MHz
	Offset-3 Start Freq	1.995 MHz
	Offset-4 Start Freq	2.75 MHz
	Offset-5 Start Freq	1.265 MHz
	Offset-1 Stop Freq	1.265 MHz
	Offset-2 Stop Freq	1.995 MHz
	Offset-3 Stop Freq	2.265 MHz
	Offset-4 Stop Freq	4.5 MHz
	Offset-5 Stop Freq	2.265 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-3 Reference Level	Auto
	Offset-4 Reference Level	Auto
	Offset-5 Reference Level	Auto
	Offset-1 RBW	30 kHz
	Offset-2 RBW	30 kHz
	Offset-3 RBW	30 kHz
	Offset-4 RBW	1 MHz
	Offset-5 RBW	30 kHz
	Offset-1 Sweep Time	20 ms
	Offset-2 Sweep Time	20 ms
	Offset-3 Sweep Time	20 ms
	Offset-4 Sweep Time	20 ms
	Offset-5 Sweep Time	20 ms

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
EV-DO Forward Link Band Class 1,4,14,15	Offset-1 Auto Sweep Time Select	Normal
	Offset-2 Auto Sweep Time Select	Normal
	Offset-3 Auto Sweep Time Select	Normal
	Offset-4 Auto Sweep Time Select	Normal
	Offset-5 Auto Sweep Time Select	Normal
	Offset-1 Detection	RMS
	Offset-2 Detection	RMS
	Offset-3 Detection	RMS
	Offset-4 Detection	RMS
	Offset-5 Detection	RMS
	Offset-1 Trace Point	101
	Offset-2 Trace Point	101
	Offset-3 Trace Point	101
	Offset-4 Trace Point	101
	Offset-5 Trace Point	101
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto
	Offset-3 Integrate BW	Auto
	Offset-4 Integrate BW	Auto
	Offset-5 Integrate BW	Auto
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	On
	Offset-5 On/Off	Off
	Offset-6 On/Off	Off

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
EV-DO Forward Link Band Class 1,4,14,15	Limit-1 ABS1 Start Level	–13.0 dBm
	Limit-2 ABS1 Start Level	–9.0 dBm
	Limit-3 ABS1 Start Level	–13.0 dBm
	Limit-4 ABS1 Start Level	–13.0 dBm
	Limit-5 ABS1 Start Level	–9.0 dBm
	Limit-1 ABS1 Stop Level	–13.0 dBm
	Limit-2 ABS1 Stop Level	–9.0 dBm
	Limit-3 ABS1 Stop Level	–13.0 dBm
	Limit-4 ABS1 Stop Level	–13.0 dBm
	Limit-5 ABS1 Stop Level	–9.0 dBm
	Limit-1 ABS2 Start Level	–27.0 dBm
	Limit-2 ABS2 Start Level	–27.0 dBm
	Limit-3 ABS2 Start Level	–27.0 dBm
	Limit-4 ABS2 Start Level	–27.0 dBm
	Limit-5 ABS2 Start Level	–27.0 dBm
	Limit-1 ABS2 Stop Level	–27.0 dBm
	Limit-2 ABS2 Stop Level	–27.0 dBm
	Limit-3 ABS2 Stop Level	–27.0 dBm
	Limit-4 ABS2 Stop Level	–27.0 dBm
	Limit-5 ABS2 Stop Level	–27.0 dBm
	Limit-1 REL Start Level	–45.0 dB
	Limit-2 REL Start Level	–45.0 dB
	Limit-3 REL Start Level	–55.0 dB
	Limit-4 REL Start Level	–45.0 dB
	Limit-5 REL Start Level	–45.0 dB
	Limit-1 REL Stop Level	–45.0 dB
	Limit-2 REL Stop Level	–45.0 dB
	Limit-3 REL Stop Level	–55.0 dB
	Limit-4 REL Stop Level	–45.0 dB
	Limit-5 REL Stop Level	–45.0 dB
	Limit-1 Fail Logic	REL
	Limit-2 Fail Logic	ABS1 and REL
	Limit-3 Fail Logic	REL
	Limit-4 Fail Logic	ABS1
	Limit-5 Fail Logic	ABS1

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
EV-DO Forward Link Band Class 6,8,13	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Channel
	Channel BW	1.23 MHz
	RBW	30 kHz
	VBW	Auto
	Sweep Time	20 ms
	Auto Sweep Time Select	Normal
	Detection	RMS
	Trace Point	101
	Filter Type	Rect
	Offset-1 Start Freq	900 kHz
	Offset-2 Start Freq	1.265 MHz
	Offset-3 Start Freq	1.465 MHz
	Offset-4 Start Freq	1.995 MHz
	Offset-5 Start Freq	2.75 MHz
	Offset-1 Stop Freq	1.995 MHz
	Offset-2 Stop Freq	1.465 MHz
	Offset-3 Stop Freq	2.265 MHz
	Offset-4 Stop Freq	2.265 MHz
	Offset-5 Stop Freq	4.5 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-3 Reference Level	Auto
	Offset-4 Reference Level	Auto
	Offset-5 Reference Level	Auto
	Offset-6 Reference Level	Auto
	Offset-1 RBW	30 kHz
	Offset-2 RBW	30 kHz
	Offset-3 RBW	30 kHz
	Offset-4 RBW	30 kHz
	Offset-5 RBW	1 MHz
	Offset-1 Sweep Time	20 ms
	Offset-2 Sweep Time	20 ms
	Offset-3 Sweep Time	20 ms
	Offset-4 Sweep Time	20 ms
	Offset-5 Sweep Time	20 ms

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
EV-DO Forward Link Band Class 6,8,13	Offset-1 Auto Sweep Time Select	Normal
	Offset-2 Auto Sweep Time Select	Normal
	Offset-3 Auto Sweep Time Select	Normal
	Offset-4 Auto Sweep Time Select	Normal
	Offset-5 Auto Sweep Time Select	Normal
	Offset-1 Detection	RMS
	Offset-2 Detection	RMS
	Offset-3 Detection	RMS
	Offset-4 Detection	RMS
	Offset-5 Detection	RMS
	Offset-1 Trace Point	101
	Offset-2 Trace Point	101
	Offset-3 Trace Point	101
	Offset-4 Trace Point	101
	Offset-5 Trace Point	101
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto
	Offset-3 Integrate BW	Auto
	Offset-4 Integrate BW	Auto
	Offset-5 Integrate BW	Auto
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	On
	Offset-5 On/Off	On
	Offset-6 On/Off	Off

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
EV-DO Forward Link Band Class 6,8,13	Limit-1 ABS1 Start Level	–13.0 dBm
	Limit-2 ABS1 Start Level	–13.0 dBm
	Limit-3 ABS1 Start Level	–13.0 dBm
	Limit-4 ABS1 Start Level	–13.0 dBm
	Limit-5 ABS1 Start Level	–13.0 dBm
	Limit-1 ABS1 Stop Level	–13.0 dBm
	Limit-2 ABS1 Stop Level	–13.0 dBm
	Limit-3 ABS1 Stop Level	–26.6 dBm
	Limit-4 ABS1 Stop Level	–13.0 dBm
	Limit-5 ABS1 Stop Level	–13.0 dBm
	Limit-1 ABS2 Start Level	–27.0 dBm
	Limit-2 ABS2 Start Level	–27.0 dBm
	Limit-3 ABS2 Start Level	–22.0 dBm
	Limit-4 ABS2 Start Level	–27.0 dBm
	Limit-5 ABS2 Start Level	–27.0 dBm
	Limit-1 ABS2 Stop Level	–27.0 dBm
	Limit-2 ABS2 Stop Level	–27.0 dBm
	Limit-3 ABS2 Stop Level	–22.0 dBm
	Limit-4 ABS2 Stop Level	–27.0 dBm
	Limit-5 ABS2 Stop Level	–27.0 dBm
	Limit-1 REL Start Level	–45.0 dB
	Limit-2 REL Start Level	–45.0 dB
	Limit-3 REL Start Level	–50.0 dB
	Limit-4 REL Start Level	–55.0 dB
	Limit-5 REL Start Level	–45.0 dB
	Limit-1 REL Stop Level	–45.0 dB
	Limit-2 REL Stop Level	–45.0 dB
	Limit-3 REL Stop Level	–50.0 dB
	Limit-4 REL Stop Level	–55.0 dB
	Limit-5 REL Stop Level	–45.0 dB
	Limit-1 Fail Logic	REL
	Limit-2 Fail Logic	ABS1
	Limit-3 Fail Logic	ABS1
	Limit-4 Fail Logic	REL
	Limit-5 Fail Logic	ABS1
	Limit-6 Fail Logic	Off

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
EV-DO Forward Link Band Class 11,12	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Channel
	Channel BW	1.23 MHz
	RBW	30 kHz
	VBW	Auto
	Sweep Time	20 ms
	Auto Sweep Time Select	Normal
	Detection	RMS
	Trace Point	101
	Filter Type	Rect
	Offset-1 Start Freq	765 kHz
	Offset-2 Start Freq	900 kHz
	Offset-3 Start Freq	1.14 MHz
	Offset-4 Start Freq	1.995 MHz
	Offset-5 Start Freq	4.0005 MHz
	Offset-6 Start Freq	6.405 MHz
	Offset-1 Stop Freq	900 kHz
	Offset-2 Stop Freq	1.14 MHz
	Offset-3 Stop Freq	1.995 MHz
	Offset-4 Stop Freq	4.015 MHz
	Offset-5 Stop Freq	6.4005 MHz
	Offset-6 Stop Freq	16.005 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-3 Reference Level	Auto
	Offset-4 Reference Level	Auto
	Offset-5 Reference Level	Auto
	Offset-6 Reference Level	Auto
	Offset-1 RBW	30 kHz
	Offset-2 RBW	30 kHz
	Offset-3 RBW	30 kHz
	Offset-4 RBW	30 kHz
	Offset-5 RBW	1 kHz
	Offset-6 RBW	10 kHz

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
EV-DO Forward Link Band Class 11,12	Offset-1 Sweep Time	20 ms
	Offset-2 Sweep Time	20 ms
	Offset-3 Sweep Time	20 ms
	Offset-4 Sweep Time	20 ms
	Offset-5 Sweep Time	Auto
	Offset-6 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Normal
	Offset-2 Auto Sweep Time Select	Normal
	Offset-3 Auto Sweep Time Select	Normal
	Offset-4 Auto Sweep Time Select	Normal
	Offset-5 Auto Sweep Time Select	Normal
	Offset-6 Auto Sweep Time Select	Normal
	Offset-1 Detection	RMS
	Offset-2 Detection	RMS
	Offset-3 Detection	RMS
	Offset-4 Detection	RMS
	Offset-5 Detection	RMS
	Offset-6 Detection	RMS
	Offset-1 Trace Point	101
	Offset-2 Trace Point	101
	Offset-3 Trace Point	101
	Offset-4 Trace Point	101
	Offset-5 Trace Point	5001
	Offset-6 Trace Point	1001
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto
	Offset-3 Integrate BW	Auto
	Offset-4 Integrate BW	Auto
	Offset-5 Integrate BW	Auto
	Offset-6 Integrate BW	Auto

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
EV-DO Forward Link Band Class 11,12	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	On
	Offset-5 On/Off	Off
	Offset-6 On/Off	Off
	Limit-1 ABS1 Start Level	–13.0 dBm
	Limit-2 ABS1 Start Level	–9.0 dBm
	Limit-3 ABS1 Start Level	–9.0 dBm
	Limit-4 ABS1 Start Level	–13.0 dBm
	Limit-5 ABS1 Start Level	–36.0 dBm
	Limit-6 ABS1 Start Level	–36.0 dBm
	Limit-1 ABS1 Stop Level	–13.0 dBm
	Limit-2 ABS1 Stop Level	–9.0 dBm
	Limit-3 ABS1 Stop Level	–9.0 dBm
	Limit-4 ABS1 Stop Level	–13.0 dBm
	Limit-5 ABS1 Stop Level	–36.0 dBm
	Limit-6 ABS1 Stop Level	–36.0 dBm
	Limit-1 ABS2 Start Level	–27.0 dBm
	Limit-2 ABS2 Start Level	–27.0 dBm
	Limit-3 ABS2 Start Level	–22.0 dBm
	Limit-4 ABS2 Start Level	–27.0 dBm
	Limit-5 ABS2 Start Level	–27.0 dBm
	Limit-6 ABS2 Start Level	–27.0 dBm
	Limit-1 ABS2 Stop Level	–27.0 dBm
	Limit-2 ABS2 Stop Level	–27.0 dBm
	Limit-3 ABS2 Stop Level	–22.0 dBm
	Limit-4 ABS2 Stop Level	–27.0 dBm
	Limit-5 ABS2 Stop Level	–27.0 dBm
	Limit-6 ABS2 Stop Level	–27.0 dBm

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
EV-DO Forward Link Band Class 11,12	Limit-1 REL Start Level	–45.0 dB
	Limit-2 REL Start Level	–60.0 dB
	Limit-3 REL Start Level	–65.0 dB
	Limit-4 REL Start Level	–75.0 dB
	Limit-5 REL Start Level	–55.0 dB
	Limit-6 REL Start Level	–55.0 dB
	Limit-1 REL Stop Level	–60.0 dB
	Limit-2 REL Stop Level	–65.0 dB
	Limit-3 REL Stop Level	–65.0 dB
	Limit-4 REL Stop Level	–75.0 dB
	Limit-5 REL Stop Level	–55.0 dB
	Limit-6 REL Stop Level	–55.0 dB
	Limit-1 Fail Logic	REL
	Limit-2 Fail Logic	REL
	Limit-3 Fail Logic	REL
	Limit-4 Fail Logic	REL
	Limit-5 Fail Logic	ABS1
	Limit-6 Fail Logic	ABS1

ISDB-Tmm

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
ISDB-Tmm 14.2MHz BW	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Channel
	Channel BW	14.2 MHz
	RBW	10 kHz
	VBW	300 Hz
	Sweep Time	Auto
	Auto Sweep Time Select	Fast
	Detection	Positive
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	7.07 MHz
	Offset-2 Start Freq	7.14 MHz
	Offset-3 Start Freq	7.29 MHz
	Offset-4 Start Freq	8.64 MHz
	Offset-1 Stop Freq	7.14 MHz
	Offset-2 Stop Freq	7.29 MHz
	Offset-3 Stop Freq	8.64 MHz
	Offset-4 Stop Freq	35.45 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-3 Reference Level	Auto
	Offset-4 Reference Level	Auto
	Offset-1 RBW	10 kHz
	Offset-2 RBW	10 kHz
	Offset-3 RBW	10 kHz
	Offset-4 RBW	10 kHz
	Offset-1 VBW	300 Hz
	Offset-2 VBW	300 Hz
	Offset-3 VBW	300 Hz
	Offset-4 VBW	300 Hz

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
ISDB-Tmm 14.2MHz BW	Offset-1 SweepTime	Auto
	Offset-2 SweepTime	Auto
	Offset-3 SweepTime	Auto
	Offset-4 SweepTime	Auto
	Offset-1 Auto Sweep Time Select	Fast
	Offset-2 Auto Sweep Time Select	Fast
	Offset-3 Auto Sweep Time Select	Fast
	Offset-4 Auto Sweep Time Select	Fast
	Offset-1 Detection	Positive
	Offset-2 Detection	Positive
	Offset-3 Detection	Positive
	Offset-4 Detection	Positive
	Offset-1 TracePoint	1001
	Offset-2 TracePoint	1001
	Offset-3 TracePoint	1001
	Offset-4 TracePoint	1001
	Offset-1 Integrate BW Switch	Auto
	Offset-2 Integrate BW Switch	Auto
	Offset-3 Integrate BW Switch	Auto
	Offset-4 Integrate BW Switch	Auto
	Limit-1 REL Start Level	–31.5 dB
	Limit-2 REL Start Level	–51.5 dB
	Limit-3 REL Start Level	–58.5 dB
	Limit-4 REL Start Level	–81.5 dB *1
	Limit-1 REL Stop Level	–51.5 dB
	Limit-2 REL Stop Level	–58.5 dB
	Limit-3 REL Stop Level	–81.5 dB *1
	Limit-4 REL Stop Level	–81.5 dB *1
	Limit-1 Fail Logic	REL
	Limit-2 Fail Logic	REL
	Limit-3 Fail Logic	REL
	Limit-4 Fail Logic	REL

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
ISDB-Tmm 14.2MHz BW (ABS)	Limit Side	Lower *2
	Noise Cancel	Off
	Reference Mode	Channel
	Channel BW	14.2 MHz
	RBW	10 kHz
	VBW	300 Hz
	Sweep Time	Auto
	Auto Sweep Time Select	Fast
	Detection	Positive
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	7.07 MHz
	Offset-2 Start Freq	7.14 MHz
	Offset-3 Start Freq	7.29 MHz
	Offset-4 Start Freq	8.64 MHz
	Offset-5 Start Freq	12.21 MHz
	Offset-1 Stop Freq	7.14 MHz
	Offset-2 Stop Freq	7.29 MHz
	Offset-3 Stop Freq	8.64 MHz
	Offset-4 Stop Freq	12.21 MHz
	Offset-5 Stop Freq	35.45 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-3 Reference Level	Auto
	Offset-4 Reference Level	Auto
	Offset-5 Reference Level	Auto
	Offset-1 RBW	10 kHz
	Offset-2 RBW	10 kHz
	Offset-3 RBW	10 kHz
	Offset-4 RBW	10 kHz
	Offset-5 RBW	10 kHz
	Offset-1 VBW	300 Hz
	Offset-2 VBW	300 Hz
	Offset-3 VBW	300 Hz
	Offset-4 VBW	300 Hz
	Offset-5 VBW	300 Hz

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
ISDB-Tmm 14.2MHz BW (ABS)	Offset-1 SweepTime	Auto
	Offset-2 SweepTime	Auto
	Offset-3 SweepTime	Auto
	Offset-4 SweepTime	Auto
	Offset-5 SweepTime	Auto
	Offset-1 Auto Sweep Time Select	Fast
	Offset-2 Auto Sweep Time Select	Fast
	Offset-3 Auto Sweep Time Select	Fast
	Offset-4 Auto Sweep Time Select	Fast
	Offset-5 Auto Sweep Time Select	Fast
	Offset-1 Detection	Positive
	Offset-2 Detection	Positive
	Offset-3 Detection	Positive
	Offset-4 Detection	Positive
	Offset-5 Detection	Positive
	Offset-1 TracePoint	1001
	Offset-2 TracePoint	1001
	Offset-3 TracePoint	1001
	Offset-4 TracePoint	1001
	Offset-5 TracePoint	1001
	Offset-1 Integrate BW Switch	Auto
	Offset-2 Integrate BW Switch	Auto
	Offset-3 Integrate BW Switch	Auto
	Offset-4 Integrate BW Switch	Auto
	Offset-5 Integrate BW Switch	Auto
	Limit-1 REL Start Level	–31.5 dB
	Limit-2 REL Start Level	–51.5 dB
	Limit-3 REL Start Level	–58.5 dB
	Limit-4 REL Start Level	–81.5 dB *1
	Limit-5 REL Start Level	–81.5 dB *1
	Limit-1 REL Stop Level	–51.5 dB
	Limit-2 REL Stop Level	–58.5 dB
	Limit-3 REL Stop Level	–81.5 dB *1
	Limit-4 REL Stop Level	–81.5 dB *1
	Limit-5 REL Stop Level	–81.5 dB *1

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
ISDB-Tmm 14.2MHz BW (ABS)	Limit-1 Fail Logic	Off *2
	Limit-2 Fail Logic	Off *2
	Limit-3 Fail Logic	Off *2
	Limit-4 Fail Logic	Off *2
	Limit-5 Fail Logic	ABS1 and REL
	Limit-5 ABS1 Start Level	–32.4 dBm *3
	Limit-5 ABS1 Stop Level	–32.4 dBm *3

*1 Value when antenna power exceeds 2.5 × 33/13 W. The value for each antenna power can be calculated using the following formula (source: ARIB STD-B46 1.1). Antenna power P in Watts.

Antenna Power [W]	Setting [dB]
P>2.5×33/13	–81.5
2.5×33/13≥P>0.025×33/13	– (73.4 + 10 log (P))
0.025×33/13≥P	–57.4
Rounded down to two decimal places. 2.5 × 33/13 ≈ 6.35 [W], 0.025 × 33/13 ≈ 63.5 [mW]	

*2 When measuring relative level mask simultaneously, set Limit Side to Both, and Fail Logic to REL. However, in this case, the Limit -5 absolute level mask is symmetrical on the left and right sides.

*3 Value when antenna power exceeds 1000/6 (W/MHz) (about 2.37 kW at 14.2 MHz conversion). The value for each antenna power can be calculated using the following formula (source: ARIB STD-B46 1.1).

Antenna Power [W/MHz]	Upper Limit (dBm) of Antenna Power at 202.5 MHz
P>1000/6	–32.4
1000/6≥P>100/6	10 log (P) – 55
100/6≥P	–42.4
Here, P is the average power (W/MHz) of the fundamental frequency.	

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
ISDB-Tmm (ISDB-T) 5.6MHz BW	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Channel
	Channel BW	5.6 MHz
	RBW	10 kHz
	VBW	300 Hz
	Sweep Time	Auto
	Auto Sweep Time Select	Fast
	Detection	Positive
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	2.79 MHz
	Offset-2 Start Freq	2.86 MHz
	Offset-3 Start Freq	3.00 MHz
	Offset-4 Start Freq	4.36 MHz
	Offset-1 Stop Freq	2.86 MHz
	Offset-2 Stop Freq	3.00 MHz
	Offset-3 Stop Freq	4.36 MHz
	Offset-4 Stop Freq	15 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-3 Reference Level	Auto
	Offset-4 Reference Level	Auto
	Offset-1 RBW	10 kHz
	Offset-2 RBW	10 kHz
	Offset-3 RBW	10 kHz
	Offset-4 RBW	10 kHz
	Offset-1 VBW	300 Hz
	Offset-2 VBW	300 Hz
	Offset-3 VBW	300 Hz
	Offset-4 VBW	300 Hz

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
ISDB-Tmm (ISDB-T) 5.6MHz BW	Offset-1 SweepTime	Auto
	Offset-2 SweepTime	Auto
	Offset-3 SweepTime	Auto
	Offset-4 SweepTime	Auto
	Offset-1 Auto Sweep Time Select	Fast
	Offset-2 Auto Sweep Time Select	Fast
	Offset-3 Auto Sweep Time Select	Fast
	Offset-4 Auto Sweep Time Select	Fast
	Offset-1 Detection	Positive
	Offset-2 Detection	Positive
	Offset-3 Detection	Positive
	Offset-4 Detection	Positive
	Offset-1 TracePoint	1001
	Offset-2 TracePoint	1001
	Offset-3 TracePoint	1001
	Offset-4 TracePoint	1001
	Offset-1 Integrate BW Switch	Auto
	Offset-2 Integrate BW Switch	Auto
	Offset-3 Integrate BW Switch	Auto
	Offset-4 Integrate BW Switch	Auto
	Limit-1 REL Start Level	–27.4 dB
	Limit-2 REL Start Level	–47.4 dB
	Limit-3 REL Start Level	–54.4 dB
	Limit-4 REL Start Level	–77.4 dB
	Limit-1 REL Stop Level	–47.4 dB
	Limit-2 REL Stop Level	–54.4 dB
	Limit-3 REL Stop Level	–77.4 dB
	Limit-4 REL Stop Level	–77.4 dB
	Limit-1 Fail Logic	REL
	Limit-2 Fail Logic	REL
	Limit-3 Fail Logic	REL
	Limit-4 Fail Logic	REL

ISDB-T

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
ISDB-T 5.6MHz BW	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Channel
	Channel BW	5.6 MHz
	RBW	10 kHz
	VBW	300 Hz
	Sweep Time	Auto
	Auto Sweep Time Select	Fast
	Detection	Positive
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	2.79 MHz
	Offset-2 Start Freq	2.86 MHz
	Offset-3 Start Freq	3.00 MHz
	Offset-4 Start Freq	4.36 MHz
	Offset-1 Stop Freq	2.86 MHz
	Offset-2 Stop Freq	3.00 MHz
	Offset-3 Stop Freq	4.36 MHz
	Offset-4 Stop Freq	15 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-3 Reference Level	Auto
	Offset-4 Reference Level	Auto
	Offset-1 RBW	10 kHz
	Offset-2 RBW	10 kHz
	Offset-3 RBW	10 kHz
	Offset-4 RBW	10 kHz
	Offset-1 VBW	300 Hz
	Offset-2 VBW	300 Hz
	Offset-3 VBW	300 Hz
	Offset-4 VBW	300 Hz

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
ISDB-T 5.6MHz BW	Offset-1 SweepTime	Auto
	Offset-2 SweepTime	Auto
	Offset-3 SweepTime	Auto
	Offset-4 SweepTime	Auto
	Offset-1 Auto Sweep Time Select	Fast
	Offset-2 Auto Sweep Time Select	Fast
	Offset-3 Auto Sweep Time Select	Fast
	Offset-4 Auto Sweep Time Select	Fast
	Offset-1 Detection	Positive
	Offset-2 Detection	Positive
	Offset-3 Detection	Positive
	Offset-4 Detection	Positive
	Offset-1 TracePoint	1001
	Offset-2 TracePoint	1001
	Offset-3 TracePoint	1001
	Offset-4 TracePoint	1001
	Offset-1 Integrate BW Switch	Auto
	Offset-2 Integrate BW Switch	Auto
	Offset-3 Integrate BW Switch	Auto
	Offset-4 Integrate BW Switch	Auto
	Limit-1 REL Start Level	–27.4 dB
	Limit-2 REL Start Level	–47.4 dB
	Limit-3 REL Start Level	–54.4 dB
	Limit-4 REL Start Level	–77.4 dB
	Limit-1 REL Stop Level	–47.4 dB
	Limit-2 REL Stop Level	–54.4 dB
	Limit-3 REL Stop Level	–77.4 dB
	Limit-4 REL Stop Level	–77.4 dB
	Limit-1 Fail Logic	REL
	Limit-2 Fail Logic	REL
	Limit-3 Fail Logic	REL
	Limit-4 Fail Logic	REL

ISDB-T_{SB}

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
ISDB-T_{SB} 3.9MHz BW	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Channel
	Channel BW	3.9 MHz
	RBW	10 kHz
	VBW	300 Hz
	Sweep Time	Auto
	Auto Sweep Time Select	Fast
	Detection	Positive
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	1.93 MHz
	Offset-2 Start Freq	2.01 MHz
	Offset-3 Start Freq	2.08 MHz
	Offset-4 Start Freq	3.51 MHz
	Offset-1 Stop Freq	2.01 MHz
	Offset-2 Stop Freq	2.08 MHz
	Offset-3 Stop Freq	3.51 MHz
	Offset-4 Stop Freq	9.74 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-3 Reference Level	Auto
	Offset-4 Reference Level	Auto
	Offset-1 RBW	10 kHz
	Offset-2 RBW	10 kHz
	Offset-3 RBW	10 kHz
	Offset-4 RBW	10 kHz
	Offset-1 VBW	300 Hz
	Offset-2 VBW	300 Hz
	Offset-3 VBW	300 Hz
	Offset-4 VBW	300 Hz

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
ISDB-T_{SB} 3.9MHz BW	Offset-1 SweepTime	Auto
	Offset-2 SweepTime	Auto
	Offset-3 SweepTime	Auto
	Offset-4 SweepTime	Auto
	Offset-1 Auto Sweep Time Select	Fast
	Offset-2 Auto Sweep Time Select	Fast
	Offset-3 Auto Sweep Time Select	Fast
	Offset-4 Auto Sweep Time Select	Fast
	Offset-1 Detection	Positive
	Offset-2 Detection	Positive
	Offset-3 Detection	Positive
	Offset-4 Detection	Positive
	Offset-1 TracePoint	1001
	Offset-2 TracePoint	1001
	Offset-3 TracePoint	1001
	Offset-4 TracePoint	1001
	Offset-1 Integrate BW Switch	Auto
	Offset-2 Integrate BW Switch	Auto
	Offset-3 Integrate BW Switch	Auto
	Offset-4 Integrate BW Switch	Auto
	Limit-1 REL Start Level	–25.9 dB
	Limit-2 REL Start Level	–45.9 dB
	Limit-3 REL Start Level	–55.9 dB
	Limit-4 REL Start Level	–75.9 dB*4
	Limit-1 REL Stop Level	–45.9 dB
	Limit-2 REL Stop Level	–55.9 dB
	Limit-3 REL Stop Level	–75.9 dB*4
	Limit-4 REL Stop Level	–75.9 dB*4
	Limit-1 Fail Logic	REL
	Limit-2 Fail Logic	REL
	Limit-3 Fail Logic	REL
	Limit-4 Fail Logic	REL

*4 Value when antenna power exceeds 5 W. The value for each antenna power can be calculated using the following formula (source: ARIB STD-B46 2.0). Antenna power P in Watts.

Antenna Power [W]	Setting [dB]
P > 5	–75.9
5 ≥ P > 0.5	– (10log(6000/14×9/10)+43+10log (P))
0.5 ≥ P	– (40+10log(6000/14×9/10))
Rounded down to two decimal places.	

SEM 802.11a

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
SEM 802.11a BW_20MHz (WLAN) (IEEE 802.11-2012)	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Peak
	Channel BW	18 MHz
	RBW	100 kHz
	VBW	30 kHz
	Sweep Time	Auto
	Auto Sweep Time Select	Fast
	Detection	RMS
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	9 MHz
	Offset-2 Start Freq	11 MHz
	Offset-3 Start Freq	20 MHz
	Offset-4 Start Freq	30 MHz
	Offset-1 Stop Freq	11 MHz
	Offset-2 Stop Freq	20 MHz
	Offset-3 Stop Freq	30 MHz
	Offset-4 Stop Freq	50 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-3 Reference Level	Auto
	Offset-4 Reference Level	Auto
	Offset-1 RBW	100 kHz
	Offset-2 RBW	100 kHz
	Offset-3 RBW	100 kHz
	Offset-4 RBW	100 kHz
	Offset-1 VBW	30 kHz
	Offset-2 VBW	30 kHz
	Offset-3 VBW	30 kHz
	Offset-4 VBW	30 kHz
	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-3 Sweep Time	Auto
	Offset-4 Sweep Time	Auto

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
SEM 802.11a BW_20MHz (WLAN) (IEEE 802.11-2012)	Offset-1 Auto Sweep Time Select	Fast
	Offset-2 Auto Sweep Time Select	Fast
	Offset-3 Auto Sweep Time Select	Fast
	Offset-4 Auto Sweep Time Select	Fast
	Offset-1 Detection	RMS
	Offset-2 Detection	RMS
	Offset-3 Detection	RMS
	Offset-4 Detection	RMS
	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-3 Trace Point	1001
	Offset-4 Trace Point	1001
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto
	Offset-3 Integrate BW	Auto
	Offset-4 Integrate BW	Auto
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	On
	Offset-5 On/Off	Off
	Offset-6 On/Off	Off
	Limit-1 REL Start Level	0.0 dB
	Limit-2 REL Start Level	–20.0 dB
	Limit-3 REL Start Level	–28.0 dB
	Limit-4 REL Start Level	–40.0 dB
	Limit-1 REL Stop Level	–20.0 dB
	Limit-2 REL Stop Level	–28.0 dB
	Limit-3 REL Stop Level	–40.0 dB
	Limit-4 REL Stop Level	–40.0 dB
	Limit-1 Fail Logic	REL
	Limit-2 Fail Logic	REL
	Limit-3 Fail Logic	REL
	Limit-4 Fail Logic	REL

SEM 802.11b

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
SEM 802.11b DSSS/CCK (WLAN) (IEEE 802.11-2012)	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Peak
	Channel BW	22 MHz
	RBW	100 kHz
	VBW	30 kHz
	Sweep Time	Auto
	Auto Sweep Time Select	Fast
	Detection	RMS
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	11 MHz
	Offset-2 Start Freq	22 MHz
	Offset-1 Stop Freq	22 MHz
	Offset-2 Stop Freq	30 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-1 RBW	100 kHz
	Offset-2 RBW	100 kHz
	Offset-1 VBW	30 kHz
	Offset-2 VBW	30 kHz
	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Fast
	Offset-2 Auto Sweep Time Select	Fast
	Offset-1 Detection	RMS
	Offset-2 Detection	RMS
	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
SEM 802.11b DSSS/CCK (WLAN) (IEEE 802.11-2012)	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	Off
	Offset-4 On/Off	Off
	Offset-5 On/Off	Off
	Offset-6 On/Off	Off
	Limit-1 REL Start Level	–30.0 dB
	Limit-2 REL Start Level	–50.0 dB
	Limit-1 REL Stop Level	–30.0 dB
	Limit-2 REL Stop Level	–50.0 dB
	Limit-1 Fail Logic	REL
	Limit-2 Fail Logic	REL

SEM 802.11g

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
SEM 802.11g OFDM (WLAN) (IEEE 802.11-2012)	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Peak
	Channel BW	18 MHz
	RBW	100 kHz
	VBW	30 kHz
	Sweep Time	Auto
	Auto Sweep Time Select	Fast
	Detection	RMS
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	9 MHz
	Offset-2 Start Freq	11 MHz
	Offset-3 Start Freq	20 MHz
	Offset-4 Start Freq	30 MHz
	Offset-1 Stop Freq	11 MHz
	Offset-2 Stop Freq	20 MHz
	Offset-3 Stop Freq	30 MHz
	Offset-4 Stop Freq	50 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-3 Reference Level	Auto
	Offset-4 Reference Level	Auto
	Offset-1 RBW	100 kHz
	Offset-2 RBW	100 kHz
	Offset-3 RBW	100 kHz
	Offset-4 RBW	100 kHz
	Offset-1 VBW	30 kHz
	Offset-2 VBW	30 kHz
	Offset-3 VBW	30 kHz
	Offset-4 VBW	30 kHz
	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-3 Sweep Time	Auto
	Offset-4 Sweep Time	Auto

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
SEM 802.11g OFDM (WLAN) (IEEE 802.11-2012)	Offset-1 Auto Sweep Time Select	Fast
	Offset-2 Auto Sweep Time Select	Fast
	Offset-3 Auto Sweep Time Select	Fast
	Offset-4 Auto Sweep Time Select	Fast
	Offset-1 Detection	RMS
	Offset-2 Detection	RMS
	Offset-3 Detection	RMS
	Offset-4 Detection	RMS
	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-3 Trace Point	1001
	Offset-4 Trace Point	1001
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto
	Offset-3 Integrate BW	Auto
	Offset-4 Integrate BW	Auto
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	On
	Offset-5 On/Off	Off
	Offset-6 On/Off	Off
	Limit-1 REL Start Level	0.0 dB
	Limit-2 REL Start Level	–20.0 dB
	Limit-3 REL Start Level	–28.0 dB
	Limit-4 REL Start Level	–40.0 dB
	Limit-1 REL Stop Level	–20.0 dB
	Limit-2 REL Stop Level	–28.0 dB
	Limit-3 REL Stop Level	–40.0 dB
	Limit-4 REL Stop Level	–40.0 dB
	Limit-1 Fail Logic	REL
	Limit-2 Fail Logic	REL
	Limit-3 Fail Logic	REL
	Limit-4 Fail Logic	REL

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
SEM 802.11g DSSS/CCK (WLAN) (IEEE 802.11-2012)	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Peak
	Channel BW	22 MHz
	RBW	100 kHz
	VBW	30 kHz
	Sweep Time	Auto
	Auto Sweep Time Select	Fast
	Detection	RMS
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	11 MHz
	Offset-2 Start Freq	22 MHz
	Offset-1 Stop Freq	22 MHz
	Offset-2 Stop Freq	30 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-1 RBW	100 kHz
	Offset-2 RBW	100 kHz
	Offset-1 VBW	30 kHz
	Offset-2 VBW	30 kHz
	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Fast
	Offset-2 Auto Sweep Time Select	Fast
	Offset-1 Detection	RMS
	Offset-2 Detection	RMS
	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
SEM 802.11g DSSS/CCK (WLAN) (IEEE 802.11-2012)	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	Off
	Offset-4 On/Off	Off
	Offset-5 On/Off	Off
	Offset-6 On/Off	Off
	Limit-1 REL Start Level	–30.0 dB
	Limit-2 REL Start Level	–50.0 dB
	Limit-1 REL Stop Level	–30.0 dB
	Limit-2 REL Stop Level	–50.0 dB
	Limit-1 Fail Logic	REL
	Limit-2 Fail Logic	REL

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
SEM 802.11g DSSS-OFDM (WLAN) (IEEE 802.11-2012)	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Peak
	Channel BW	18 MHz
	RBW	100 kHz
	VBW	30 kHz
	Sweep Time	Auto
	Auto Sweep Time Select	Fast
	Detection	RMS
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	9 MHz
	Offset-2 Start Freq	11 MHz
	Offset-3 Start Freq	20 MHz
	Offset-4 Start Freq	30 MHz
	Offset-1 Stop Freq	11 MHz
	Offset-2 Stop Freq	20 MHz
	Offset-3 Stop Freq	30 MHz
	Offset-4 Stop Freq	50 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-3 Reference Level	Auto
	Offset-4 Reference Level	Auto
	Offset-1 RBW	100 kHz
	Offset-2 RBW	100 kHz
	Offset-3 RBW	100 kHz
	Offset-4 RBW	100 kHz
	Offset-1 VBW	30 kHz
	Offset-2 VBW	30 kHz
	Offset-3 VBW	30 kHz
	Offset-4 VBW	30 kHz
	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-3 Sweep Time	Auto
	Offset-4 Sweep Time	Auto

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
SEM 802.11g DSSS-OFDM (WLAN) (IEEE 802.11-2012)	Offset-1 Auto Sweep Time Select	Fast
	Offset-2 Auto Sweep Time Select	Fast
	Offset-3 Auto Sweep Time Select	Fast
	Offset-4 Auto Sweep Time Select	Fast
	Offset-1 Detection	RMS
	Offset-2 Detection	RMS
	Offset-3 Detection	RMS
	Offset-4 Detection	RMS
	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-3 Trace Point	1001
	Offset-4 Trace Point	1001
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto
	Offset-3 Integrate BW	Auto
	Offset-4 Integrate BW	Auto
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	On
	Offset-5 On/Off	Off
	Offset-6 On/Off	Off
	Limit-1 REL Start Level	0.0 dB
	Limit-2 REL Start Level	–20.0 dB
	Limit-3 REL Start Level	–28.0 dB
	Limit-4 REL Start Level	–40.0 dB
	Limit-1 REL Stop Level	–20.0 dB
	Limit-2 REL Stop Level	–28.0 dB
	Limit-3 REL Stop Level	–40.0 dB
	Limit-4 REL Stop Level	–40.0 dB
	Limit-1 Fail Logic	REL
	Limit-2 Fail Logic	REL
	Limit-3 Fail Logic	REL
	Limit-4 Fail Logic	REL

SEM 802.11j

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
SEM 802.11j BW_10MHz (WLAN) (IEEE 802.11-2007)	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Peak
	Channel BW	9 MHz
	RBW	100 kHz
	VBW	30 kHz
	Sweep Time	Auto
	Auto Sweep Time Select	Fast
	Detection	RMS
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	4.5 MHz
	Offset-2 Start Freq	5.5 MHz
	Offset-3 Start Freq	10 MHz
	Offset-4 Start Freq	15 MHz
	Offset-1 Stop Freq	5.5 MHz
	Offset-2 Stop Freq	10 MHz
	Offset-3 Stop Freq	15 MHz
	Offset-4 Stop Freq	25 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-3 Reference Level	Auto
	Offset-4 Reference Level	Auto
	Offset-1 RBW	100 kHz
	Offset-2 RBW	100 kHz
	Offset-3 RBW	100 kHz
	Offset-4 RBW	100 kHz
	Offset-1 VBW	30 kHz
	Offset-2 VBW	30 kHz
	Offset-3 VBW	30 kHz
	Offset-4 VBW	30 kHz
	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-3 Sweep Time	Auto
	Offset-4 Sweep Time	Auto

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
SEM 802.11j BW_10MHz (WLAN) (IEEE 802.11-2007)	Offset-1 Auto Sweep Time Select	Fast
	Offset-2 Auto Sweep Time Select	Fast
	Offset-3 Auto Sweep Time Select	Fast
	Offset-4 Auto Sweep Time Select	Fast
	Offset-1 Detection	RMS
	Offset-2 Detection	RMS
	Offset-3 Detection	RMS
	Offset-4 Detection	RMS
	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-3 Trace Point	1001
	Offset-4 Trace Point	1001
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto
	Offset-3 Integrate BW	Auto
	Offset-4 Integrate BW	Auto
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	On
	Offset-5 On/Off	Off
	Offset-6 On/Off	Off
	Limit-1 REL Start Level	0.0 dB
	Limit-2 REL Start Level	–20.0 dB
	Limit-3 REL Start Level	–28.0 dB
	Limit-4 REL Start Level	–40.0 dB
	Limit-1 REL Stop Level	–20.0 dB
	Limit-2 REL Stop Level	–28.0 dB
	Limit-3 REL Stop Level	–40.0 dB
	Limit-4 REL Stop Level	–40.0 dB
	Limit-1 Fail Logic	REL
	Limit-2 Fail Logic	REL
	Limit-3 Fail Logic	REL
	Limit-4 Fail Logic	REL

SEM 802.11p

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
SEM 802.11p BW_10MHz (WLAN) (IEEE 802.11-2007)	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Peak
	Channel BW	9 MHz
	RBW	100 kHz
	VBW	30 kHz
	Sweep Time	Auto
	Auto Sweep Time Select	Fast
	Detection	RMS
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	4.5 MHz
	Offset-2 Start Freq	5.5 MHz
	Offset-3 Start Freq	10 MHz
	Offset-4 Start Freq	15 MHz
	Offset-1 Stop Freq	5.5 MHz
	Offset-2 Stop Freq	10 MHz
	Offset-3 Stop Freq	15 MHz
	Offset-4 Stop Freq	25 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-3 Reference Level	Auto
	Offset-4 Reference Level	Auto
	Offset-1 RBW	100 kHz
	Offset-2 RBW	100 kHz
	Offset-3 RBW	100 kHz
	Offset-4 RBW	100 kHz
	Offset-1 VBW	30 kHz
	Offset-2 VBW	30 kHz
	Offset-3 VBW	30 kHz
	Offset-4 VBW	30 kHz
	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-3 Sweep Time	Auto
	Offset-4 Sweep Time	Auto

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
SEM 802.11p BW_10MHz (WLAN) (IEEE 802.11-2007)	Offset-1 Auto Sweep Time Select	Fast
	Offset-2 Auto Sweep Time Select	Fast
	Offset-3 Auto Sweep Time Select	Fast
	Offset-4 Auto Sweep Time Select	Fast
	Offset-1 Detection	RMS
	Offset-2 Detection	RMS
	Offset-3 Detection	RMS
	Offset-4 Detection	RMS
	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-3 Trace Point	1001
	Offset-4 Trace Point	1001
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto
	Offset-3 Integrate BW	Auto
	Offset-4 Integrate BW	Auto
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	On
	Offset-5 On/Off	Off
	Offset-6 On/Off	Off
	Limit-1 REL Start Level	0.0 dB
	Limit-2 REL Start Level	–20.0 dB
	Limit-3 REL Start Level	–28.0 dB
	Limit-4 REL Start Level	–40.0 dB
	Limit-1 REL Stop Level	–20.0 dB
	Limit-2 REL Stop Level	–28.0 dB
	Limit-3 REL Stop Level	–40.0 dB
	Limit-4 REL Stop Level	–40.0 dB
	Limit-1 Fail Logic	REL
	Limit-2 Fail Logic	REL
	Limit-3 Fail Logic	REL
	Limit-4 Fail Logic	REL

SEM 802.11n

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
SEM 802.11n BW_20MHz (2.4GHz) (WLAN) (IEEE 802.11-2012)	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Peak
	Channel BW	18 MHz
	RBW	100 kHz
	Sweep Time	Auto
	Auto Sweep Time Select	Fast
	Detection	RMS
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	9 MHz
	Offset-2 Start Freq	11 MHz
	Offset-3 Start Freq	20 MHz
	Offset-4 Start Freq	30 MHz
	Offset-1 Stop Freq	11 MHz
	Offset-2 Stop Freq	20 MHz
	Offset-3 Stop Freq	30 MHz
	Offset-4 Stop Freq	50 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-3 Reference Level	Auto
	Offset-4 Reference Level	Auto
	Offset-1 RBW	100 kHz
	Offset-2 RBW	100 kHz
	Offset-3 RBW	100 kHz
	Offset-4 RBW	100 kHz
	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-3 Sweep Time	Auto
	Offset-4 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Fast
	Offset-2 Auto Sweep Time Select	Fast
	Offset-3 Auto Sweep Time Select	Fast
	Offset-4 Auto Sweep Time Select	Fast

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
SEM 802.11n BW_20MHz (2.4GHz) (WLAN) (IEEE 802.11-2012)	Offset-1 Detection	RMS
	Offset-2 Detection	RMS
	Offset-3 Detection	RMS
	Offset-4 Detection	RMS
	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-3 Trace Point	1001
	Offset-4 Trace Point	1001
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto
	Offset-3 Integrate BW	Auto
	Offset-4 Integrate BW	Auto
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	On
	Limit-1 REL Start Level	0.0 dB
	Limit-2 REL Start Level	–20.0 dB
	Limit-3 REL Start Level	–28.0 dB
	Limit-4 REL Start Level	–45.0 dB
	Limit-1 REL Stop Level	–20.0 dB
	Limit-2 REL Stop Level	–28.0 dB
	Limit-3 REL Stop Level	–45.0 dB
	Limit-4 REL Stop Level	–45.0 dB
	Limit-1 Fail Logic	REL
	Limit-2 Fail Logic	REL
	Limit-3 Fail Logic	REL
	Limit-4 Fail Logic	REL

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
SEM 802.11n BW_20MHz (5GHz) (WLAN) (IEEE 802.11-2012)	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Peak
	Channel BW	18 MHz
	RBW	100 kHz
	Sweep Time	Auto
	Auto Sweep Time Select	Fast
	Detection	RMS
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	9 MHz
	Offset-2 Start Freq	11 MHz
	Offset-3 Start Freq	20 MHz
	Offset-4 Start Freq	30 MHz
	Offset-1 Stop Freq	11 MHz
	Offset-2 Stop Freq	20 MHz
	Offset-3 Stop Freq	30 MHz
	Offset-4 Stop Freq	50 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-3 Reference Level	Auto
	Offset-4 Reference Level	Auto
	Offset-1 RBW	100 kHz
	Offset-2 RBW	100 kHz
	Offset-3 RBW	100 kHz
	Offset-4 RBW	100 kHz
	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-3 Sweep Time	Auto
	Offset-4 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Fast
	Offset-2 Auto Sweep Time Select	Fast
	Offset-3 Auto Sweep Time Select	Fast
	Offset-4 Auto Sweep Time Select	Fast

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
SEM 802.11n BW_20MHz (5GHz) (WLAN) (IEEE 802.11-2012)	Offset-1 Detection	RMS
	Offset-2 Detection	RMS
	Offset-3 Detection	RMS
	Offset-4 Detection	RMS
	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-3 Trace Point	1001
	Offset-4 Trace Point	1001
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto
	Offset-3 Integrate BW	Auto
	Offset-4 Integrate BW	Auto
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	On
	Limit-1 REL Start Level	0.0 dB
	Limit-2 REL Start Level	–20.0 dB
	Limit-3 REL Start Level	–28.0 dB
	Limit-4 REL Start Level	–40.0 dB
	Limit-1 REL Stop Level	–20.0 dB
	Limit-2 REL Stop Level	–28.0 dB
	Limit-3 REL Stop Level	–40.0 dB
	Limit-4 REL Stop Level	–40.0 dB
	Limit-1 Fail Logic	REL
	Limit-2 Fail Logic	REL
	Limit-3 Fail Logic	REL
	Limit-4 Fail Logic	REL

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
SEM 802.11n BW_40MHz (2.4GHz) (WLAN) (IEEE 802.11-2012)	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Peak
	Channel BW	38 MHz
	RBW	100 kHz
	Sweep Time	Auto
	Auto Sweep Time Select	Fast
	Detection	RMS
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	19 MHz
	Offset-2 Start Freq	21 MHz
	Offset-3 Start Freq	40 MHz
	Offset-4 Start Freq	60 MHz
	Offset-1 Stop Freq	21 MHz
	Offset-2 Stop Freq	40 MHz
	Offset-3 Stop Freq	60 MHz
	Offset-4 Stop Freq	100 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-3 Reference Level	Auto
	Offset-4 Reference Level	Auto
	Offset-1 RBW	100 kHz
	Offset-2 RBW	100 kHz
	Offset-3 RBW	100 kHz
	Offset-4 RBW	100 kHz
	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-3 Sweep Time	Auto
	Offset-4 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Fast
	Offset-2 Auto Sweep Time Select	Fast
	Offset-3 Auto Sweep Time Select	Fast
	Offset-4 Auto Sweep Time Select	Fast

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
SEM 802.11n BW_40MHz (2.4GHz) (WLAN) (IEEE 802.11-2012)	Offset-1 Detection	RMS
	Offset-2 Detection	RMS
	Offset-3 Detection	RMS
	Offset-4 Detection	RMS
	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-3 Trace Point	1001
	Offset-4 Trace Point	1001
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto
	Offset-3 Integrate BW	Auto
	Offset-4 Integrate BW	Auto
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	On
	Limit-1 REL Start Level	0.0 dB
	Limit-2 REL Start Level	–20.0 dB
	Limit-3 REL Start Level	–28.0 dB
	Limit-4 REL Start Level	–45.0 dB
	Limit-1 REL Stop Level	–20.0 dB
	Limit-2 REL Stop Level	–28.0 dB
	Limit-3 REL Stop Level	–45.0 dB
	Limit-4 REL Stop Level	–45.0 dB
	Limit-1 Fail Logic	REL
	Limit-2 Fail Logic	REL
	Limit-3 Fail Logic	REL
	Limit-4 Fail Logic	REL

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
SEM 802.11n BW_40MHz (5GHz) (WLAN) (IEEE 802.11-2012)	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Peak
	Channel BW	38 MHz
	RBW	100 kHz
	Sweep Time	Auto
	Auto Sweep Time Select	Fast
	Detection	RMS
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	19 MHz
	Offset-2 Start Freq	21 MHz
	Offset-3 Start Freq	40 MHz
	Offset-4 Start Freq	60 MHz
	Offset-1 Stop Freq	21 MHz
	Offset-2 Stop Freq	40 MHz
	Offset-3 Stop Freq	60 MHz
	Offset-4 Stop Freq	100 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-3 Reference Level	Auto
	Offset-4 Reference Level	Auto
	Offset-1 RBW	100 kHz
	Offset-2 RBW	100 kHz
	Offset-3 RBW	100 kHz
	Offset-4 RBW	100 kHz
	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-3 Sweep Time	Auto
	Offset-4 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Fast
	Offset-2 Auto Sweep Time Select	Fast
	Offset-3 Auto Sweep Time Select	Fast
	Offset-4 Auto Sweep Time Select	Fast

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
SEM 802.11n BW_40MHz (5GHz) (WLAN) (IEEE 802.11-2012)	Offset-1 Detection	RMS
	Offset-2 Detection	RMS
	Offset-3 Detection	RMS
	Offset-4 Detection	RMS
	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-3 Trace Point	1001
	Offset-4 Trace Point	1001
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto
	Offset-3 Integrate BW	Auto
	Offset-4 Integrate BW	Auto
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	On
	Limit-1 REL Start Level	0.0 dB
	Limit-2 REL Start Level	–20.0 dB
	Limit-3 REL Start Level	–28.0 dB
	Limit-4 REL Start Level	–40.0 dB
	Limit-1 REL Stop Level	–20.0 dB
	Limit-2 REL Stop Level	–28.0 dB
	Limit-3 REL Stop Level	–40.0 dB
	Limit-4 REL Stop Level	–40.0 dB
	Limit-1 Fail Logic	REL
	Limit-2 Fail Logic	REL
	Limit-3 Fail Logic	REL
	Limit-4 Fail Logic	REL

SEM 802.11ac

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
SEM 802.11ac BW_20MHz (WLAN) (IEEE 802.11ac-2013)	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Peak
	Channel BW	18 MHz
	RBW	100 kHz
	Sweep Time	Auto
	Auto Sweep Time Select	Fast
	Detection	RMS
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	9 MHz
	Offset-2 Start Freq	11 MHz
	Offset-3 Start Freq	20 MHz
	Offset-4 Start Freq	30 MHz
	Offset-1 Stop Freq	11 MHz
	Offset-2 Stop Freq	20 MHz
	Offset-3 Stop Freq	30 MHz
	Offset-4 Stop Freq	50 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-3 Reference Level	Auto
	Offset-4 Reference Level	Auto
	Offset-1 RBW	100 kHz
	Offset-2 RBW	100 kHz
	Offset-3 RBW	100 kHz
	Offset-4 RBW	100 kHz
	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-3 Sweep Time	Auto
	Offset-4 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Fast
	Offset-2 Auto Sweep Time Select	Fast
	Offset-3 Auto Sweep Time Select	Fast
	Offset-4 Auto Sweep Time Select	Fast

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
SEM 802.11ac BW_20MHz (WLAN) (IEEE 802.11ac-2013)	Offset-1 Detection	RMS
	Offset-2 Detection	RMS
	Offset-3 Detection	RMS
	Offset-4 Detection	RMS
	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-3 Trace Point	1001
	Offset-4 Trace Point	1001
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto
	Offset-3 Integrate BW	Auto
	Offset-4 Integrate BW	Auto
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	On
	Limit-1 REL Start Level	0.0 dB
	Limit-2 REL Start Level	–20.0 dB
	Limit-3 REL Start Level	–28.0 dB
	Limit-4 REL Start Level	–40.0 dB
	Limit-1 REL Stop Level	–20.0 dB
	Limit-2 REL Stop Level	–28.0 dB
	Limit-3 REL Stop Level	–40.0 dB
	Limit-4 REL Stop Level	–40.0 dB
	Limit-1 Fail Logic	REL
	Limit-2 Fail Logic	REL
	Limit-3 Fail Logic	REL
	Limit-4 Fail Logic	REL

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
SEM 802.11ac BW_40MHz (WLAN) (IEEE 802.11ac-2013)	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Peak
	Channel BW	38 MHz
	RBW	100 kHz
	Sweep Time	Auto
	Auto Sweep Time Select	Fast
	Detection	RMS
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	19 MHz
	Offset-2 Start Freq	21 MHz
	Offset-3 Start Freq	40 MHz
	Offset-4 Start Freq	60 MHz
	Offset-5 Start Freq	60 MHz
	Offset-1 Stop Freq	21 MHz
	Offset-2 Stop Freq	40 MHz
	Offset-3 Stop Freq	60 MHz
	Offset-4 Stop Freq	100 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-3 Reference Level	Auto
	Offset-4 Reference Level	Auto
	Offset-1 RBW	100 kHz
	Offset-2 RBW	100 kHz
	Offset-3 RBW	100 kHz
	Offset-4 RBW	100 kHz
	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-3 Sweep Time	Auto
	Offset-4 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Fast
	Offset-2 Auto Sweep Time Select	Fast
	Offset-3 Auto Sweep Time Select	Fast
	Offset-4 Auto Sweep Time Select	Fast

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
SEM 802.11ac BW_40MHz (WLAN) (IEEE 802.11ac-2013)	Offset-1 Detection	RMS
	Offset-2 Detection	RMS
	Offset-3 Detection	RMS
	Offset-4 Detection	RMS
	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-3 Trace Point	1001
	Offset-4 Trace Point	1001
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto
	Offset-3 Integrate BW	Auto
	Offset-4 Integrate BW	Auto
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	On
	Limit-1 REL Start Level	0.0 dB
	Limit-2 REL Start Level	–20.0 dB
	Limit-3 REL Start Level	–28.0 dB
	Limit-4 REL Start Level	–40.0 dB
	Limit-1 REL Stop Level	–20.0 dB
	Limit-2 REL Stop Level	–28.0 dB
	Limit-3 REL Stop Level	–40.0 dB
	Limit-4 REL Stop Level	–40.0 dB
	Limit-1 Fail Logic	REL
	Limit-2 Fail Logic	REL
	Limit-3 Fail Logic	REL
	Limit-4 Fail Logic	REL

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
SEM 802.11ac BW_80MHz (WLAN) (IEEE 802.11ac-2013)	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Peak
	Channel BW	78 MHz
	RBW	100 kHz
	Sweep Time	Auto
	Auto Sweep Time Select	Fast
	Detection	RMS
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	39 MHz
	Offset-2 Start Freq	41 MHz
	Offset-3 Start Freq	80 MHz
	Offset-4 Start Freq	120 MHz
	Offset-1 Stop Freq	41 MHz
	Offset-2 Stop Freq	80 MHz
	Offset-3 Stop Freq	120 MHz
	Offset-4 Stop Freq	200 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-3 Reference Level	Auto
	Offset-4 Reference Level	Auto
	Offset-1 RBW	100 kHz
	Offset-2 RBW	100 kHz
	Offset-3 RBW	100 kHz
	Offset-4 RBW	100 kHz
	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-3 Sweep Time	Auto
	Offset-4 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Fast
	Offset-2 Auto Sweep Time Select	Fast
	Offset-3 Auto Sweep Time Select	Fast
	Offset-4 Auto Sweep Time Select	Fast

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
SEM 802.11ac BW_80MHz (WLAN) (IEEE 802.11ac-2013)	Offset-1 Detection	RMS
	Offset-2 Detection	RMS
	Offset-3 Detection	RMS
	Offset-4 Detection	RMS
	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-3 Trace Point	1001
	Offset-4 Trace Point	1001
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto
	Offset-3 Integrate BW	Auto
	Offset-4 Integrate BW	Auto
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	On
	Limit-1 REL Start Level	0.0 dB
	Limit-2 REL Start Level	–20.0 dB
	Limit-3 REL Start Level	–28.0 dB
	Limit-4 REL Start Level	–40.0 dB
	Limit-1 REL Stop Level	–20.0 dB
	Limit-2 REL Stop Level	–28.0 dB
	Limit-3 REL Stop Level	–40.0 dB
	Limit-4 REL Stop Level	–40.0 dB
	Limit-1 Fail Logic	REL
	Limit-2 Fail Logic	REL
	Limit-3 Fail Logic	REL
	Limit-4 Fail Logic	REL

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
SEM 802.11ac BW_160MHz (WLAN) (IEEE 802.11ac-2013)	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Peak
	Channel BW	158 MHz
	RBW	100 kHz
	Sweep Time	Auto
	Auto Sweep Time Select	Fast
	Detection	RMS
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	79 MHz
	Offset-2 Start Freq	81 MHz
	Offset-3 Start Freq	160 MHz
	Offset-4 Start Freq	240 MHz
	Offset-1 Stop Freq	81 MHz
	Offset-2 Stop Freq	160 MHz
	Offset-3 Stop Freq	240 MHz
	Offset-4 Stop Freq	400 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-3 Reference Level	Auto
	Offset-4 Reference Level	Auto
	Offset-1 RBW	100 kHz
	Offset-2 RBW	100 kHz
	Offset-3 RBW	100 kHz
	Offset-4 RBW	100 kHz
	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-3 Sweep Time	Auto
	Offset-4 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Fast
	Offset-2 Auto Sweep Time Select	Fast
	Offset-3 Auto Sweep Time Select	Fast
	Offset-4 Auto Sweep Time Select	Fast

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
SEM 802.11ac BW_160MHz (WLAN) (IEEE 802.11ac-2013)	Offset-1 Detection	RMS
	Offset-2 Detection	RMS
	Offset-3 Detection	RMS
	Offset-4 Detection	RMS
	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-3 Trace Point	1001
	Offset-4 Trace Point	1001
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto
	Offset-3 Integrate BW	Auto
	Offset-4 Integrate BW	Auto
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	On
	Limit-1 REL Start Level	0.0 dB
	Limit-2 REL Start Level	–20.0 dB
	Limit-3 REL Start Level	–28.0 dB
	Limit-4 REL Start Level	–40.0 dB
	Limit-1 REL Stop Level	–20.0 dB
	Limit-2 REL Stop Level	–28.0 dB
	Limit-3 REL Stop Level	–40.0 dB
	Limit-4 REL Stop Level	–40.0 dB
	Limit-1 Fail Logic	REL
	Limit-2 Fail Logic	REL
	Limit-3 Fail Logic	REL
	Limit-4 Fail Logic	REL

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Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
ETSI EN 301 893 V1.5.1 OFDM 5MHz (WLAN)	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Peak
	Channel BW	5 MHz
	RBW	1 MHz
	VBW	30 kHz
	Sweep Time	Auto
	Auto Sweep Time Select	Fast
	Detection	RMS
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	2.375 MHz
	Offset-2 Start Freq	2.750 MHz
	Offset-3 Start Freq	5.0 MHz
	Offset-4 Start Freq	7.5 MHz
	Offset-5 Start Freq	45 MHz
	Offset-6 Start Freq	54 MHz
	Offset-1 Stop Freq	2.750 MHz
	Offset-2 Stop Freq	5.0 MHz
	Offset-3 Stop Freq	7.5 MHz
	Offset-4 Stop Freq	45 MHz
	Offset-5 Stop Freq	54 MHz
	Offset-6 Stop Freq	60 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-3 Reference Level	Auto
	Offset-4 Reference Level	Auto
	Offset-5 Reference Level	Auto
	Offset-6 Reference Level	Auto
	Offset-1 RBW	1 MHz
	Offset-2 RBW	1 MHz
	Offset-3 RBW	1 MHz
	Offset-4 RBW	1 MHz
	Offset-5 RBW	1 MHz
	Offset-6 RBW	1 MHz

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
ETSI EN 301 893 V1.5.1 OFDM 5MHz (WLAN)	Offset-1 VBW	30 kHz
	Offset-2 VBW	30 kHz
	Offset-3 VBW	30 kHz
	Offset-4 VBW	30 kHz
	Offset-5 VBW	30 kHz
	Offset-6 VBW	30 kHz
	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-3 Sweep Time	Auto
	Offset-4 Sweep Time	Auto
	Offset-5 Sweep Time	Auto
	Offset-6 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Fast
	Offset-2 Auto Sweep Time Select	Fast
	Offset-3 Auto Sweep Time Select	Fast
	Offset-4 Auto Sweep Time Select	Fast
	Offset-5 Auto Sweep Time Select	Fast
	Offset-6 Auto Sweep Time Select	Fast
	Offset-1 Detection	RMS
	Offset-2 Detection	RMS
	Offset-3 Detection	RMS
	Offset-4 Detection	RMS
	Offset-5 Detection	RMS
	Offset-6 Detection	RMS
	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-3 Trace Point	1001
	Offset-4 Trace Point	1001
	Offset-5 Trace Point	1001
	Offset-6 Trace Point	1001

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
ETSI EN 301 893 V1.5.1 OFDM 5MHz (WLAN)	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto
	Offset-3 Integrate BW	Auto
	Offset-4 Integrate BW	Auto
	Offset-5 Integrate BW	Auto
	Offset-6 Integrate BW	Auto
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	On
	Offset-5 On/Off	On
	Offset-6 On/Off	On
	Limit-1 REL Start Level	0.0 dB
	Limit-2 REL Start Level	–20.0 dB
	Limit-3 REL Start Level	–28.0 dB
	Limit-4 REL Start Level	–40.0 dB
	Limit-5 REL Start Level	–42.0 dB
	Limit-6 REL Start Level	–47.0 dB
	Limit-1 REL Stop Level	–20.0 dB
	Limit-2 REL Stop Level	–28.0 dB
	Limit-3 REL Stop Level	–40.0 dB
	Limit-4 REL Stop Level	–40.0 dB
	Limit-5 REL Stop Level	–42.0 dB
	Limit-6 REL Stop Level	–47.0 dB
	Limit-1 Fail Logic	REL
	Limit-2 Fail Logic	REL
	Limit-3 Fail Logic	REL
	Limit-4 Fail Logic	REL
	Limit-5 Fail Logic	REL
	Limit-6 Fail Logic	REL

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
ETSI EN 301 893 V1.5.1 OFDM 10MHz (WLAN)	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Peak
	Channel BW	10 MHz
	RBW	1 MHz
	VBW	30 kHz
	Sweep Time	Auto
	Auto Sweep Time Select	Fast
	Detection	RMS
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	4.75 MHz
	Offset-2 Start Freq	5.5 MHz
	Offset-3 Start Freq	10.0 MHz
	Offset-4 Start Freq	15.0 MHz
	Offset-5 Start Freq	90 MHz
	Offset-6 Start Freq	108 MHz
	Offset-1 Stop Freq	5.5 MHz
	Offset-2 Stop Freq	10.0 MHz
	Offset-3 Stop Freq	15.0 MHz
	Offset-4 Stop Freq	90 MHz
	Offset-5 Stop Freq	108 MHz
	Offset-6 Stop Freq	120 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-3 Reference Level	Auto
	Offset-4 Reference Level	Auto
	Offset-5 Reference Level	Auto
	Offset-6 Reference Level	Auto
	Offset-1 RBW	1 MHz
	Offset-2 RBW	1 MHz
	Offset-3 RBW	1 MHz
	Offset-4 RBW	1 MHz
	Offset-5 RBW	1 MHz
	Offset-6 RBW	1 MHz

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
ETSI EN 301 893 V1.5.1 OFDM 10MHz (WLAN)	Offset-1 VBW	30 kHz
	Offset-2 VBW	30 kHz
	Offset-3 VBW	30 kHz
	Offset-4 VBW	30 kHz
	Offset-5 VBW	30 kHz
	Offset-6 VBW	30 kHz
	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-3 Sweep Time	Auto
	Offset-4 Sweep Time	Auto
	Offset-5 Sweep Time	Auto
	Offset-6 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Fast
	Offset-2 Auto Sweep Time Select	Fast
	Offset-3 Auto Sweep Time Select	Fast
	Offset-4 Auto Sweep Time Select	Fast
	Offset-5 Auto Sweep Time Select	Fast
	Offset-6 Auto Sweep Time Select	Fast
	Offset-1 Detection	RMS
	Offset-2 Detection	RMS
	Offset-3 Detection	RMS
	Offset-4 Detection	RMS
	Offset-5 Detection	RMS
	Offset-6 Detection	RMS
	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-3 Trace Point	1001
	Offset-4 Trace Point	1001
	Offset-5 Trace Point	1001
	Offset-6 Trace Point	1001

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
ETSI EN 301 893 V1.5.1 OFDM 10MHz (WLAN)	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto
	Offset-3 Integrate BW	Auto
	Offset-4 Integrate BW	Auto
	Offset-5 Integrate BW	Auto
	Offset-6 Integrate BW	Auto
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	On
	Offset-5 On/Off	On
	Offset-6 On/Off	On
	Limit-1 REL Start Level	0.0 dB
	Limit-2 REL Start Level	–20.0 dB
	Limit-3 REL Start Level	–28.0 dB
	Limit-4 REL Start Level	–40.0 dB
	Limit-5 REL Start Level	–42.0 dB
	Limit-6 REL Start Level	–47.0 dB
	Limit-1 REL Stop Level	–20.0 dB
	Limit-2 REL Stop Level	–28.0 dB
	Limit-3 REL Stop Level	–40.0 dB
	Limit-4 REL Stop Level	–40.0 dB
	Limit-5 REL Stop Level	–42.0 dB
	Limit-6 REL Stop Level	–47.0 dB
	Limit-1 Fail Logic	REL
	Limit-2 Fail Logic	REL
	Limit-3 Fail Logic	REL
	Limit-4 Fail Logic	REL
	Limit-5 Fail Logic	REL
	Limit-6 Fail Logic	REL

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
ETSI EN 301 893 V1.5.1 OFDM 20MHz (WLAN)	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Peak
	Channel BW	20 MHz
	RBW	1 MHz
	VBW	30 kHz
	Sweep Time	Auto
	Auto Sweep Time Select	Fast
	Detection	RMS
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	9.5 MHz
	Offset-2 Start Freq	11.0 MHz
	Offset-3 Start Freq	20.0 MHz
	Offset-4 Start Freq	30.0 MHz
	Offset-5 Start Freq	180 MHz
	Offset-6 Start Freq	216 MHz
	Offset-1 Stop Freq	11.0 MHz
	Offset-2 Stop Freq	20.0 MHz
	Offset-3 Stop Freq	30.0 MHz
	Offset-4 Stop Freq	180 MHz
	Offset-5 Stop Freq	216 MHz
	Offset-6 Stop Freq	240 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-3 Reference Level	Auto
	Offset-4 Reference Level	Auto
	Offset-5 Reference Level	Auto
	Offset-6 Reference Level	Auto
	Offset-1 RBW	1 MHz
	Offset-2 RBW	1 MHz
	Offset-3 RBW	1 MHz
	Offset-4 RBW	1 MHz
	Offset-5 RBW	1 MHz
	Offset-6 RBW	1 MHz

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
ETSI EN 301 893 V1.5.1 OFDM 20MHz (WLAN)	Offset-1 VBW	30 kHz
	Offset-2 VBW	30 kHz
	Offset-3 VBW	30 kHz
	Offset-4 VBW	30 kHz
	Offset-5 VBW	30 kHz
	Offset-6 VBW	30 kHz
	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-3 Sweep Time	Auto
	Offset-4 Sweep Time	Auto
	Offset-5 Sweep Time	Auto
	Offset-6 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Fast
	Offset-2 Auto Sweep Time Select	Fast
	Offset-3 Auto Sweep Time Select	Fast
	Offset-4 Auto Sweep Time Select	Fast
	Offset-5 Auto Sweep Time Select	Fast
	Offset-6 Auto Sweep Time Select	Fast
	Offset-1 Detection	RMS
	Offset-2 Detection	RMS
	Offset-3 Detection	RMS
	Offset-4 Detection	RMS
	Offset-5 Detection	RMS
	Offset-6 Detection	RMS
	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-3 Trace Point	1001
	Offset-4 Trace Point	1001
	Offset-5 Trace Point	1001
	Offset-6 Trace Point	1001

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
ETSI EN 301 893 V1.5.1 OFDM 20MHz (WLAN)	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto
	Offset-3 Integrate BW	Auto
	Offset-4 Integrate BW	Auto
	Offset-5 Integrate BW	Auto
	Offset-6 Integrate BW	Auto
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	On
	Offset-5 On/Off	On
	Offset-6 On/Off	On
	Limit-1 REL Start Level	0.0 dB
	Limit-2 REL Start Level	–20.0 dB
	Limit-3 REL Start Level	–28.0 dB
	Limit-4 REL Start Level	–40.0 dB
	Limit-5 REL Start Level	–42.0 dB
	Limit-6 REL Start Level	–47.0 dB
	Limit-1 REL Stop Level	–20.0 dB
	Limit-2 REL Stop Level	–28.0 dB
	Limit-3 REL Stop Level	–40.0 dB
	Limit-4 REL Stop Level	–40.0 dB
	Limit-5 REL Stop Level	–42.0 dB
	Limit-6 REL Stop Level	–47.0 dB
	Limit-1 Fail Logic	REL
	Limit-2 Fail Logic	REL
	Limit-3 Fail Logic	REL
	Limit-4 Fail Logic	REL
	Limit-5 Fail Logic	REL
	Limit-6 Fail Logic	REL

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
ETSI EN 301 893 V1.5.1 OFDM 40MHz (WLAN)	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Peak
	Channel BW	20 MHz
	RBW	1 MHz
	VBW	30 kHz
	Sweep Time	Auto
	Auto Sweep Time Select	Fast
	Detection	RMS
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	19.0 MHz
	Offset-2 Start Freq	22.0 MHz
	Offset-3 Start Freq	40.0 MHz
	Offset-4 Start Freq	60.0 MHz
	Offset-5 Start Freq	360 MHz
	Offset-6 Start Freq	432 MHz
	Offset-1 Stop Freq	22.0 MHz
	Offset-2 Stop Freq	40.0 MHz
	Offset-3 Stop Freq	60.0 MHz
	Offset-4 Stop Freq	360 MHz
	Offset-5 Stop Freq	432 MHz
	Offset-6 Stop Freq	480 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-3 Reference Level	Auto
	Offset-4 Reference Level	Auto
	Offset-5 Reference Level	Auto
	Offset-6 Reference Level	Auto
	Offset-1 RBW	1 MHz
	Offset-2 RBW	1 MHz
	Offset-3 RBW	1 MHz
	Offset-4 RBW	1 MHz
	Offset-5 RBW	1 MHz
	Offset-6 RBW	1 MHz

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
ETSI EN 301 893 V1.5.1 OFDM 40MHz (WLAN)	Offset-1 VBW	30 kHz
	Offset-2 VBW	30 kHz
	Offset-3 VBW	30 kHz
	Offset-4 VBW	30 kHz
	Offset-5 VBW	30 kHz
	Offset-6 VBW	30 kHz
	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-3 Sweep Time	Auto
	Offset-4 Sweep Time	Auto
	Offset-5 Sweep Time	Auto
	Offset-6 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Fast
	Offset-2 Auto Sweep Time Select	Fast
	Offset-3 Auto Sweep Time Select	Fast
	Offset-4 Auto Sweep Time Select	Fast
	Offset-5 Auto Sweep Time Select	Fast
	Offset-6 Auto Sweep Time Select	Fast
	Offset-1 Detection	RMS
	Offset-2 Detection	RMS
	Offset-3 Detection	RMS
	Offset-4 Detection	RMS
	Offset-5 Detection	RMS
	Offset-6 Detection	RMS
	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-3 Trace Point	1001
	Offset-4 Trace Point	1001
	Offset-5 Trace Point	1001
	Offset-6 Trace Point	1001

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
ETSI EN 301 893 V1.5.1 OFDM 40MHz (WLAN)	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto
	Offset-3 Integrate BW	Auto
	Offset-4 Integrate BW	Auto
	Offset-5 Integrate BW	Auto
	Offset-6 Integrate BW	Auto
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	On
	Offset-5 On/Off	On
	Offset-6 On/Off	On
	Limit-1 REL Start Level	0.0 dB
	Limit-2 REL Start Level	–20.0 dB
	Limit-3 REL Start Level	–28.0 dB
	Limit-4 REL Start Level	–40.0 dB
	Limit-5 REL Start Level	–42.0 dB
	Limit-6 REL Start Level	–47.0 dB
	Limit-1 REL Stop Level	–20.0 dB
	Limit-2 REL Stop Level	–28.0 dB
	Limit-3 REL Stop Level	–40.0 dB
	Limit-4 REL Stop Level	–40.0 dB
	Limit-5 REL Stop Level	–42.0 dB
	Limit-6 REL Stop Level	–47.0 dB
	Limit-1 Fail Logic	REL
	Limit-2 Fail Logic	REL
	Limit-3 Fail Logic	REL
	Limit-4 Fail Logic	REL
	Limit-5 Fail Logic	REL
	Limit-6 Fail Logic	REL

O-QPSK

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
O-QPSK 2450MHz (LR-WPANs)	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Peak
	Channel BW	2 MHz
	RBW	100 kHz
	Sweep Time	Auto
	Auto Sweep Time Select	Normal
	Detection	RMS
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	3.5 MHz
	Offset-1 Stop Freq	5.0 MHz
	Offset-1 Reference Level	Auto
	Offset-1 RBW	100 kHz
	Offset-1 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Normal
	Offset-1 Detection	RMS
	Offset-1 Trace Point	1001
	Offset-1 Integrate BW	Auto
	Limit-1 REL Start Level	–20.0 dB
	Limit-1 REL Stop Level	–20.0 dB
	Limit-1 Fail Logic	ABS1 and REL
	Limit-1 ABS1 Start Level	–30.0 dBm
	Limit-1 ABS1 Stop Level	–30.0 dBm

BPSK

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
BPSK 950MHz (LR-WPANs)	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Peak
	Channel BW	2 MHz
	RBW	100 kHz
	Sweep Time	Auto
	Auto Sweep Time Select	Normal
	Detection	RMS
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	400 kHz
	Offset-1 Stop Freq	1.0 MHz
	Offset-1 Reference Level	Auto
	Offset-1 RBW	100 kHz
	Offset-1 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Normal
	Offset-1 Detection	RMS
	Offset-1 Trace Point	1001
	Offset-1 Integrate BW	Auto
	Limit-1 Fail Logic	REL
	Limit-1 ABS1 Start Level	–39.0 dBm
	Limit-1 ABS1 Stop Level	–39.0 dBm

GFSK

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
GFSK 50ksps 950MHz (LR-WPANs)	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Peak
	Channel BW	2 MHz
	RBW	100 kHz
	Sweep Time	Auto
	Auto Sweep Time Select	Normal
	Detection	RMS
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	200 kHz
	Offset-1 Stop Freq	1.0 MHz
	Offset-1 Reference Level	Auto
	Offset-1 RBW	100 kHz
	Offset-1 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Normal
	Offset-1 Detection	RMS
	Offset-1 Trace Point	1001
	Offset-1 Integrate BW	Auto
	Limit-1 Fail Logic	REL
	Limit-1 ABS1 Start Level	–39.0 dBm
	Limit-1 ABS1 Stop Level	–39.0 dBm

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
GFSK 100ksps 950MHz (LR-WPANs)	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Peak
	Channel BW	2 MHz
	RBW	100 kHz
	Sweep Time	Auto
	Auto Sweep Time Select	Normal
	Detection	RMS
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	300 kHz
	Offset-1 Stop Freq	1.0 MHz
	Offset-1 Reference Level	Auto
	Offset-1 RBW	100 kHz
	Offset-1 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Normal
	Offset-1 Detection	RMS
	Offset-1 Trace Point	1001
	Offset-1 Integrate BW	Auto
	Limit-1 Fail Logic	REL
	Limit-1 ABS1 Start Level	–39.0 dBm
	Limit-1 ABS1 Stop Level	–39.0 dBm

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
GFSK 200ksps 950MHz (LR-WPANs)	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Peak
	Channel BW	2 MHz
	RBW	100 kHz
	Sweep Time	Auto
	Auto Sweep Time Select	Normal
	Detection	RMS
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	500 kHz
	Offset-1 Stop Freq	1.0 MHz
	Offset-1 Reference Level	Auto
	Offset-1 RBW	100 kHz
	Offset-1 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Normal
	Offset-1 Detection	RMS
	Offset-1 Trace Point	1001
	Offset-1 Integrate BW	Auto
	Limit-1 Fail Logic	REL
	Limit-1 ABS1 Start Level	–39.0 dBm
	Limit-1 ABS1 Stop Level	–39.0 dBm

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
GFSK 50ksps 920MHz (LR-WPANs)	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Peak
	Channel BW	2 MHz
	RBW	100 kHz
	Sweep Time	Auto
	Auto Sweep Time Select	Normal
	Detection	RMS
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	300 kHz
	Offset-1 Stop Freq	1.0 MHz
	Offset-1 Reference Level	Auto
	Offset-1 RBW	100 kHz
	Offset-1 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Normal
	Offset-1 Detection	RMS
	Offset-1 Trace Point	1001
	Offset-1 Integrate BW	Auto
	Limit-1 Fail Logic	REL
	Limit-1 ABS1 Start Level	–29.0 dBm
	Limit-1 ABS1 Stop Level	–29.0 dBm

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
GFSK 100ksps 920MHz (LR-WPANs)	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Peak
	Channel BW	2 MHz
	RBW	100 kHz
	Sweep Time	Auto
	Auto Sweep Time Select	Normal
	Detection	RMS
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	400 kHz
	Offset-1 Stop Freq	1.0 MHz
	Offset-1 Reference Level	Auto
	Offset-1 RBW	100 kHz
	Offset-1 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Normal
	Offset-1 Detection	RMS
	Offset-1 Trace Point	1001
	Offset-1 Integrate BW	Auto
	Limit-1 Fail Logic	REL
	Limit-1 ABS1 Start Level	–29.0 dBm
	Limit-1 ABS1 Stop Level	–29.0 dBm

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
GFSK 200ksps 920MHz (LR-WPANs)	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Peak
	Channel BW	2 MHz
	RBW	100 kHz
	Sweep Time	Auto
	Auto Sweep Time Select	Normal
	Detection	RMS
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	600 kHz
	Offset-1 Stop Freq	1.0 MHz
	Offset-1 Reference Level	Auto
	Offset-1 RBW	100 kHz
	Offset-1 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Normal
	Offset-1 Detection	RMS
	Offset-1 Trace Point	1001
	Offset-1 Integrate BW	Auto
	Limit-1 Fail Logic	REL
	Limit-1 ABS1 Start Level	–29.0 dBm
	Limit-1 ABS1 Stop Level	–29.0 dBm

APCO P25

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
APCO P25 FCC 12.5kHz	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Peak
	Channel BW	11.25 kHz
	RBW	30 kHz
	Sweep Time	5.7 s
	Auto Sweep Time Select	Normal
	Detection	Positive
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	0 Hz
	Offset-2 Start Freq	5.624 kHz
	Offset-3 Start Freq	12.5 kHz
	Offset-1 Stop Freq	5.624 kHz
	Offset-2 Stop Freq	12.5 kHz
	Offset-3 Stop Freq	25 kHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-3 Reference Level	Auto
	Offset-1 RBW	100 Hz
	Offset-2 RBW	100 Hz
	Offset-3 RBW	100 Hz
	Offset-1 Sweep Time	2.9 s
	Offset-2 Sweep Time	3.5 s
	Offset-3 Sweep Time	6.3 s
	Offset-1 Auto Sweep Time Select	Normal
	Offset-2 Auto Sweep Time Select	Normal
	Offset-3 Auto Sweep Time Select	Normal
	Offset-1 Detection	Positive
	Offset-2 Detection	Positive
	Offset-3 Detection	Positive

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
APCO P25 FCC 12.5kHz	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-3 Trace Point	1001
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	Off
	Offset-5 On/Off	Off
	Offset-6 On/Off	Off
	Limit-1 REL Start Level	0 dBm
	Limit-2 REL Start Level	–19.96 dBm
	Limit-3 REL Start Level	–70 dBm
	Limit-1 REL Stop Level	0 dBm
	Limit-2 REL Stop Level	–69.94 dBm
	Limit-3 REL Stop Level	–70 dBm
	Limit-1 Fail Logic	REL
	Limit-2 Fail Logic	REL
	Limit-3 Fail Logic	REL

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
APCO P25 NTIA 12.5kHz	Limit Side	Both
	Noise Cancel	Off
	Reference Mode	Peak
	Channel BW	11.25 kHz
	RBW	30 kHz
	Sweep Time	5.7 s
	Auto Sweep Time Select	Normal
	Detection	Positive
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	0 Hz
	Offset-2 Start Freq	2.5 kHz
	Offset-3 Start Freq	12.5 kHz
	Offset-1 Stop Freq	2.5 kHz
	Offset-2 Stop Freq	12.5 kHz
	Offset-3 Stop Freq	25 kHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-3 Reference Level	Auto
	Offset-1 RBW	300 Hz
	Offset-2 RBW	300 Hz
	Offset-3 RBW	300 Hz
	Offset-1 Sweep Time	1.3 s
	Offset-2 Sweep Time	5 s
	Offset-3 Sweep Time	6.3 s
	Offset-1 Auto Sweep Time Select	Normal
	Offset-2 Auto Sweep Time Select	Normal
	Offset-3 Auto Sweep Time Select	Normal
	Offset-1 Detection	Positive
	Offset-2 Detection	Positive
	Offset-3 Detection	Positive

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
APCO P25 NTIA 12.5kHz	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-3 Trace Point	1001
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	Off
	Offset-5 On/Off	Off
	Offset-6 On/Off	Off
	Limit-1 REL Start Level	0 dBm
	Limit-2 REL Start Level	0 dBm
	Limit-3 REL Start Level	–70 dBm
	Limit-1 REL Stop Level	0 dBm
	Limit-2 REL Stop Level	–70 dBm
	Limit-3 REL Stop Level	–70 dBm
	Limit-1 Fail Logic	REL
	Limit-2 Fail Logic	REL
	Limit-3 Fail Logic	REL

Microlink ETSI CS: 7MHz

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
Microlink ETSI CS:7MHz Class:2	Frequency Span	35 MHz
	Limit Side	Both
	Reference Mode	Peak
	Channel BW	1 kHz
	RBW	30 kHz
	VBW	300 Hz
	Sweep Time	Auto
	Auto Sweep Time Select	Fast
	Detection	Positive
	Trace Point	1001
	Filter Type	Root Nyquist
	Roll-off Factor	0.22
	Offset-1 Start Freq	0 Hz
	Offset-2 Start Freq	3.4 MHz
	Offset-3 Start Freq	4.2 MHz
	Offset-4 Start Freq	6.8 MHz
	Offset-5 Start Freq	12 MHz
	Offset-1 Stop Freq	3.4 MHz
	Offset-2 Stop Freq	4.2 MHz
	Offset-3 Stop Freq	6.8 MHz
	Offset-4 Stop Freq	12 MHz
	Offset-5 Stop Freq	17.5 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-3 Reference Level	Auto
	Offset-4 Reference Level	Auto
	Offset-5 Reference Level	Auto
	Offset-1 RBW	30 kHz
	Offset-2 RBW	30 kHz
	Offset-3 RBW	30 kHz
	Offset-4 RBW	30 kHz
	Offset-5 RBW	30 kHz
	Offset-1 VBW	300 Hz
	Offset-2 VBW	300 Hz
	Offset-3 VBW	300 Hz
	Offset-4 VBW	300 Hz
	Offset-5 VBW	300 Hz

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
Microlink ETSI CS:7MHz Class:2	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-3 Sweep Time	Auto
	Offset-4 Sweep Time	Auto
	Offset-5 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Fast
	Offset-2 Auto Sweep Time Select	Fast
	Offset-3 Auto Sweep Time Select	Fast
	Offset-4 Auto Sweep Time Select	Fast
	Offset-5 Auto Sweep Time Select	Fast
	Offset-1 Detection	Positive
	Offset-2 Detection	Positive
	Offset-3 Detection	Positive
	Offset-4 Detection	Positive
	Offset-5 Detection	Positive
	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-3 Trace Point	1001
	Offset-4 Trace Point	1001
	Offset-5 Trace Point	1001
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	On
	Offset-5 On/Off	On
	Limit-1 REL Start Level	1.0 dB
	Limit-2 REL Start Level	1.0 dB
	Limit-3 REL Start Level	–23.0 dB
	Limit-4 REL Start Level	–23.0 dB
	Limit-5 REL Start Level	–45.0 dB

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
Microlink ETSI CS:7MHz Class:2	Limit-1 REL Stop Level	1.0 dB
	Limit-2 REL Stop Level	–23.0 dB
	Limit-3 REL Stop Level	–23.0 dB
	Limit-4 REL Stop Level	–45.0 dB
	Limit-5 REL Stop Level	–45.0 dB
	Limit-1 Fail Logic	REL
	Limit-2 Fail Logic	REL
	Limit-3 Fail Logic	REL
	Limit-4 Fail Logic	REL
	Limit-5 Fail Logic	REL
	Limit-1 REL Stop Level	1.0 dB
	Limit-2 REL Stop Level	–23.0 dB
	Limit-3 REL Stop Level	–23.0 dB
	Limit-4 REL Stop Level	–45.0 dB
	Limit-5 REL Stop Level	–45.0 dB
	Limit-1 Fail Logic	REL
	Limit-2 Fail Logic	REL
	Limit-3 Fail Logic	REL
	Limit-4 Fail Logic	REL
	Limit-5 Fail Logic	REL

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
Microlink ETSI CS:7MHz Class:4L Freq Band:3G - 17GHz	Frequency Span	35 MHz
	Limit Side	Both
	Reference Mode	Peak
	Channel BW	1 kHz
	RBW	30 kHz
	VBW	300 Hz
	Sweep Time	Auto
	Auto Sweep Time Select	Fast
	Detection	Positive
	Trace Point	1001
	Filter Type	Root Nyquist
	Roll-off Factor	0.22
	Offset-1 Start Freq	0 Hz
	Offset-2 Start Freq	3.2 MHz
	Offset-3 Start Freq	4.4 MHz
	Offset-4 Start Freq	14 MHz
	Offset-1 Stop Freq	3.2 MHz
	Offset-2 Stop Freq	4.4 MHz
	Offset-3 Stop Freq	14 MHz
	Offset-4 Stop Freq	17.5 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-3 Reference Level	Auto
	Offset-4 Reference Level	Auto
	Offset-1 RBW	30 kHz
	Offset-2 RBW	30 kHz
	Offset-3 RBW	30 kHz
	Offset-4 RBW	30 kHz
	Offset-1 VBW	300 Hz
	Offset-2 VBW	300 Hz
	Offset-3 VBW	300 Hz
	Offset-4 VBW	300 Hz
	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-3 Sweep Time	Auto
	Offset-4 Sweep Time	Auto

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
Microlink ETSI CS:7MHz Class:4L Freq Band:3G - 17GHz	Offset-1 Auto Sweep Time Select	Fast
	Offset-2 Auto Sweep Time Select	Fast
	Offset-3 Auto Sweep Time Select	Fast
	Offset-4 Auto Sweep Time Select	Fast
	Offset-1 Detection	Positive
	Offset-2 Detection	Positive
	Offset-3 Detection	Positive
	Offset-4 Detection	Positive
	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-3 Trace Point	1001
	Offset-4 Trace Point	1001
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	On
	Limit-1 REL Start Level	1.0 dB
	Limit-2 REL Start Level	1.0 dB
	Limit-3 REL Start Level	–28.0 dB
	Limit-4 REL Start Level	–55.0 dB
	Limit-1 REL Stop Level	1.0 dB
	Limit-2 REL Stop Level	–28.0 dB
	Limit-3 REL Stop Level	–55.0 dB
	Limit-4 REL Stop Level	–55.0 dB
	Limit-1 Fail Logic	REL
	Limit-2 Fail Logic	REL
	Limit-3 Fail Logic	REL
	Limit-4 Fail Logic	REL

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
Microlink ETS CS:7MHz Class:4L Freq Band:17G - 30GHz	Frequency Span	35 MHz
	Limit Side	Both
	Reference Mode	Peak
	Channel BW	1 kHz
	RBW	30 kHz
	VBW	300 Hz
	Sweep Time	Auto
	Auto Sweep Time Select	Fast
	Detection	Positive
	Trace Point	1001
	Filter Type	Root Nyquist
	Roll-off Factor	0.22
	Offset-1 Start Freq	0 Hz
	Offset-2 Start Freq	3.2 MHz
	Offset-3 Start Freq	4.4 MHz
	Offset-4 Start Freq	12.4 MHz
	Offset-1 Stop Freq	3.2 MHz
	Offset-2 Stop Freq	4.4 MHz
	Offset-3 Stop Freq	12.4 MHz
	Offset-4 Stop Freq	17.5 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-3 Reference Level	Auto
	Offset-4 Reference Level	Auto
	Offset-1 RBW	30 kHz
	Offset-2 RBW	30 kHz
	Offset-3 RBW	30 kHz
	Offset-4 RBW	30 kHz
	Offset-1 VBW	300 Hz
	Offset-2 VBW	300 Hz
	Offset-3 VBW	300 Hz
	Offset-4 VBW	300 Hz
	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-3 Sweep Time	Auto
	Offset-4 Sweep Time	Auto

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
Microlink ETSI CS:7MHz Class:4L Freq Band:17G - 30GHz	Offset-1 Auto Sweep Time Select	Fast
	Offset-2 Auto Sweep Time Select	Fast
	Offset-3 Auto Sweep Time Select	Fast
	Offset-4 Auto Sweep Time Select	Fast
	Offset-1 Detection	Positive
	Offset-2 Detection	Positive
	Offset-3 Detection	Positive
	Offset-4 Detection	Positive
	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-3 Trace Point	1001
	Offset-4 Trace Point	1001
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	On
	Limit-1 REL Start Level	1.0 dB
	Limit-2 REL Start Level	1.0 dB
	Limit-3 REL Start Level	–28.0 dB
	Limit-4 REL Start Level	–50.0 dB
	Limit-1 REL Stop Level	1.0 dB
	Limit-2 REL Stop Level	–28.0 dB
	Limit-3 REL Stop Level	–50.0 dB
	Limit-4 REL Stop Level	–50.0 dB
	Limit-1 Fail Logic	REL
	Limit-2 Fail Logic	REL
	Limit-3 Fail Logic	REL
	Limit-4 Fail Logic	REL

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
Microlink ETSI CS:7MHz Class:4L Freq Band:above 30GHz	Frequency Span	35 MHz
	Limit Side	Both
	Reference Mode	Peak
	Channel BW	1 kHz
	RBW	30 kHz
	VBW	300 Hz
	Sweep Time	Auto
	Auto Sweep Time Select	Fast
	Detection	Positive
	Trace Point	1001
	Filter Type	Root Nyquist
	Roll-off Factor	0.22
	Offset-1 Start Freq	0 Hz
	Offset-2 Start Freq	3.2 MHz
	Offset-3 Start Freq	4.4 MHz
	Offset-4 Start Freq	10.4 MHz
	Offset-1 Stop Freq	3.2 MHz
	Offset-2 Stop Freq	4.4 MHz
	Offset-3 Stop Freq	10.4 MHz
	Offset-4 Stop Freq	17.5 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-3 Reference Level	Auto
	Offset-4 Reference Level	Auto
	Offset-1 RBW	30 kHz
	Offset-2 RBW	30 kHz
	Offset-3 RBW	30 kHz
	Offset-4 RBW	30 kHz
	Offset-1 VBW	300 Hz
	Offset-2 VBW	300 Hz
	Offset-3 VBW	300 Hz
	Offset-4 VBW	300 Hz
	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-3 Sweep Time	Auto
	Offset-4 Sweep Time	Auto

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
Microlink ETSI CS:7MHz Class:4L Freq Band:above 30GHz	Offset-1 Auto Sweep Time Select	Fast
	Offset-2 Auto Sweep Time Select	Fast
	Offset-3 Auto Sweep Time Select	Fast
	Offset-4 Auto Sweep Time Select	Fast
	Offset-1 Detection	Positive
	Offset-2 Detection	Positive
	Offset-3 Detection	Positive
	Offset-4 Detection	Positive
	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-3 Trace Point	1001
	Offset-4 Trace Point	1001
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	On
	Limit-1 REL Start Level	1.0 dB
	Limit-2 REL Start Level	1.0 dB
	Limit-3 REL Start Level	–28.0 dB
	Limit-4 REL Start Level	–45.0 dB
	Limit-1 REL Stop Level	1.0 dB
	Limit-2 REL Stop Level	–28.0 dB
	Limit-3 REL Stop Level	–45.0 dB
	Limit-4 REL Stop Level	–45.0 dB
	Limit-1 Fail Logic	REL
	Limit-2 Fail Logic	REL
	Limit-3 Fail Logic	REL
	Limit-4 Fail Logic	REL

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
Microlink ETS CS:7MHz Class:5B Freq Band:3G - 17GHz	Frequency Span	35 MHz
	Limit Side	Both
	Reference Mode	Peak
	Channel BW	1 kHz
	RBW	30 kHz
	VBW	300 Hz
	Sweep Time	Auto
	Auto Sweep Time Select	Fast
	Detection	Positive
	Trace Point	1001
	Filter Type	Root Nyquist
	Roll-off Factor	0.22
	Offset-1 Start Freq	0 Hz
	Offset-2 Start Freq	3 MHz
	Offset-3 Start Freq	3.625 MHz
	Offset-4 Start Freq	3.875 MHz
	Offset-5 Start Freq	4.25 MHz
	Offset-6 Start Freq	10 MHz
	Offset-7 Start Freq	13.5 MHz
	Offset-1 Stop Freq	3 MHz
	Offset-2 Stop Freq	3.625 MHz
	Offset-3 Stop Freq	3.875 MHz
	Offset-4 Stop Freq	4.25 MHz
	Offset-5 Stop Freq	10 MHz
	Offset-6 Stop Freq	13.5 MHz
	Offset-7 Stop Freq	17.5 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-3 Reference Level	Auto
	Offset-4 Reference Level	Auto
	Offset-5 Reference Level	Auto
	Offset-6 Reference Level	Auto
	Offset-7 Reference Level	Auto
	Offset-1 RBW	30 kHz
	Offset-2 RBW	30 kHz
	Offset-3 RBW	30 kHz
	Offset-4 RBW	30 kHz
	Offset-5 RBW	30 kHz
	Offset-6 RBW	30 kHz
	Offset-7 RBW	30 kHz

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
Microlink ETSI CS:7MHz Class:5B Freq Band:3G - 17GHz	Offset-1 VBW	300 Hz
	Offset-2 VBW	300 Hz
	Offset-3 VBW	300 Hz
	Offset-4 VBW	300 Hz
	Offset-5 VBW	300 Hz
	Offset-6 VBW	300 Hz
	Offset-7 VBW	300 Hz
	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-3 Sweep Time	Auto
	Offset-4 Sweep Time	Auto
	Offset-5 Sweep Time	Auto
	Offset-6 Sweep Time	Auto
	Offset-7 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Fast
	Offset-2 Auto Sweep Time Select	Fast
	Offset-3 Auto Sweep Time Select	Fast
	Offset-4 Auto Sweep Time Select	Fast
	Offset-5 Auto Sweep Time Select	Fast
	Offset-6 Auto Sweep Time Select	Fast
	Offset-7 Auto Sweep Time Select	Fast
	Offset-1 Detection	Positive
	Offset-2 Detection	Positive
	Offset-3 Detection	Positive
	Offset-4 Detection	Positive
	Offset-5 Detection	Positive
	Offset-6 Detection	Positive
	Offset-7 Detection	Positive

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
Microlink ETSI CS:7MHz Class:5B Freq Band:3G - 17GHz	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-3 Trace Point	1001
	Offset-4 Trace Point	1001
	Offset-5 Trace Point	1001
	Offset-6 Trace Point	1001
	Offset-7 Trace Point	1001
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	On
	Offset-5 On/Off	On
	Offset-6 On/Off	On
	Offset-7 On/Off	On
	Limit-1 REL Start Level	1.0 dB
	Limit-2 REL Start Level	1.0 dB
	Limit-3 REL Start Level	–10.0 dB
	Limit-4 REL Start Level	–32.0 dB
	Limit-5 REL Start Level	–36.0 dB
	Limit-6 REL Start Level	–45.0 dB
	Limit-7 REL Start Level	–55.0 dB
	Limit-1 REL Stop Level	1.0 dB
	Limit-2 REL Stop Level	–10.0 dB
	Limit-3 REL Stop Level	–32.0 dB
	Limit-4 REL Stop Level	–36.0 dB
	Limit-5 REL Stop Level	–45.0 dB
	Limit-6 REL Stop Level	–55.0 dB
	Limit-7 REL Stop Level	–55.0 dB
	Limit-1 Fail Logic	REL
	Limit-2 Fail Logic	REL
	Limit-3 Fail Logic	REL
	Limit-4 Fail Logic	REL
	Limit-5 Fail Logic	REL
	Limit-6 Fail Logic	REL
	Limit-7 Fail Logic	REL

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
Microlink ETSI CS:7MHz Class:5B Freq Band:17G - 30GHz	Frequency Span	35 MHz
	Limit Side	Both
	Reference Mode	Peak
	Channel BW	1 kHz
	RBW	30 kHz
	VBW	300 Hz
	Sweep Time	Auto
	Auto Sweep Time Select	Fast
	Detection	Positive
	Trace Point	1001
	Filter Type	Root Nyquist
	Roll-off Factor	0.22
	Offset-1 Start Freq	0 Hz
	Offset-2 Start Freq	3 MHz
	Offset-3 Start Freq	3.625 MHz
	Offset-4 Start Freq	3.875 MHz
	Offset-5 Start Freq	4.25 MHz
	Offset-6 Start Freq	10 MHz
	Offset-7 Start Freq	11.75 MHz
	Offset-1 Stop Freq	3 MHz
	Offset-2 Stop Freq	3.625 MHz
	Offset-3 Stop Freq	3.875 MHz
	Offset-4 Stop Freq	4.25 MHz
	Offset-5 Stop Freq	10 MHz
	Offset-6 Stop Freq	11.75 MHz
	Offset-7 Stop Freq	17.5 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-3 Reference Level	Auto
	Offset-4 Reference Level	Auto
	Offset-5 Reference Level	Auto
	Offset-6 Reference Level	Auto
	Offset-7 Reference Level	Auto
	Offset-1 RBW	30 kHz
	Offset-2 RBW	30 kHz
	Offset-3 RBW	30 kHz
	Offset-4 RBW	30 kHz
	Offset-5 RBW	30 kHz
	Offset-6 RBW	30 kHz
	Offset-7 RBW	30 kHz

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
Microlink ETSI CS:7MHz Class:5B Freq Band:17G - 30GHz	Offset-1 VBW	300 Hz
	Offset-2 VBW	300 Hz
	Offset-3 VBW	300 Hz
	Offset-4 VBW	300 Hz
	Offset-5 VBW	300 Hz
	Offset-6 VBW	300 Hz
	Offset-7 VBW	300 Hz
	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-3 Sweep Time	Auto
	Offset-4 Sweep Time	Auto
	Offset-5 Sweep Time	Auto
	Offset-6 Sweep Time	Auto
	Offset-7 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Fast
	Offset-2 Auto Sweep Time Select	Fast
	Offset-3 Auto Sweep Time Select	Fast
	Offset-4 Auto Sweep Time Select	Fast
	Offset-5 Auto Sweep Time Select	Fast
	Offset-6 Auto Sweep Time Select	Fast
	Offset-7 Auto Sweep Time Select	Fast
	Offset-1 Detection	Positive
	Offset-2 Detection	Positive
	Offset-3 Detection	Positive
	Offset-4 Detection	Positive
	Offset-5 Detection	Positive
	Offset-6 Detection	Positive
	Offset-7 Detection	Positive

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
Microlink ETSI CS:7MHz Class:5B Freq Band:17G - 30GHz	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-3 Trace Point	1001
	Offset-4 Trace Point	1001
	Offset-5 Trace Point	1001
	Offset-6 Trace Point	1001
	Offset-7 Trace Point	1001
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	On
	Offset-5 On/Off	On
	Offset-6 On/Off	On
	Offset-7 On/Off	On
	Limit-1 REL Start Level	1.0 dB
	Limit-2 REL Start Level	1.0 dB
	Limit-3 REL Start Level	–10.0 dB
	Limit-4 REL Start Level	–32.0 dB
	Limit-5 REL Start Level	–36.0 dB
	Limit-6 REL Start Level	–45.0 dB
	Limit-7 REL Start Level	–50.0 dB
	Limit-1 REL Stop Level	1.0 dB
	Limit-2 REL Stop Level	–10.0 dB
	Limit-3 REL Stop Level	–32.0 dB
	Limit-4 REL Stop Level	–36.0 dB
	Limit-5 REL Stop Level	–45.0 dB
	Limit-6 REL Stop Level	–50.0 dB
	Limit-7 REL Stop Level	–50.0 dB
	Limit-1 Fail Logic	REL
	Limit-2 Fail Logic	REL
	Limit-3 Fail Logic	REL
	Limit-4 Fail Logic	REL
	Limit-5 Fail Logic	REL
	Limit-6 Fail Logic	REL
	Limit-7 Fail Logic	REL

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
Microlink ETSI CS:7MHz Class:5B Freq Band:above 30GHz	Frequency Span	35 MHz
	Limit Side	Both
	Reference Mode	Peak
	Channel BW	1 kHz
	RBW	30 kHz
	VBW	300 Hz
	Sweep Time	Auto
	Auto Sweep Time Select	Fast
	Detection	Positive
	Trace Point	1001
	Filter Type	Root Nyquist
	Roll-off Factor	0.22
	Offset-1 Start Freq	0 Hz
	Offset-2 Start Freq	3 MHz
	Offset-3 Start Freq	3.625 MHz
	Offset-4 Start Freq	3.875 MHz
	Offset-5 Start Freq	4.25 MHz
	Offset-6 Start Freq	10 MHz
	Offset-1 Stop Freq	3 MHz
	Offset-2 Stop Freq	3.625 MHz
	Offset-3 Stop Freq	3.875 MHz
	Offset-4 Stop Freq	4.25 MHz
	Offset-5 Stop Freq	10 MHz
	Offset-6 Stop Freq	17.5 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-3 Reference Level	Auto
	Offset-4 Reference Level	Auto
	Offset-5 Reference Level	Auto
	Offset-6 Reference Level	Auto
	Offset-1 RBW	30 kHz
	Offset-2 RBW	30 kHz
	Offset-3 RBW	30 kHz
	Offset-4 RBW	30 kHz
	Offset-5 RBW	30 kHz
	Offset-6 RBW	30 kHz

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
Microlink ETSI CS:7MHz Class:5B Freq Band:above 30GHz	Offset-1 VBW	300 Hz
	Offset-2 VBW	300 Hz
	Offset-3 VBW	300 Hz
	Offset-4 VBW	300 Hz
	Offset-5 VBW	300 Hz
	Offset-6 VBW	300 Hz
	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-3 Sweep Time	Auto
	Offset-4 Sweep Time	Auto
	Offset-5 Sweep Time	Auto
	Offset-6 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Fast
	Offset-2 Auto Sweep Time Select	Fast
	Offset-3 Auto Sweep Time Select	Fast
	Offset-4 Auto Sweep Time Select	Fast
	Offset-5 Auto Sweep Time Select	Fast
	Offset-6 Auto Sweep Time Select	Fast
	Offset-1 Detection	Positive
	Offset-2 Detection	Positive
	Offset-3 Detection	Positive
	Offset-4 Detection	Positive
	Offset-5 Detection	Positive
	Offset-6 Detection	Positive
	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-3 Trace Point	1001
	Offset-4 Trace Point	1001
	Offset-5 Trace Point	1001
	Offset-6 Trace Point	1001

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
Microlink ETSI CS:7MHz Class:5B Freq Band:above 30GHz	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	On
	Offset-5 On/Off	On
	Offset-6 On/Off	On
	Limit-1 REL Start Level	1.0 dB
	Limit-2 REL Start Level	1.0 dB
	Limit-3 REL Start Level	–10.0 dB
	Limit-4 REL Start Level	–32.0 dB
	Limit-5 REL Start Level	–36.0 dB
	Limit-6 REL Start Level	–45.0 dB
	Limit-1 REL Stop Level	1.0 dB
	Limit-2 REL Stop Level	–10.0 dB
	Limit-3 REL Stop Level	–32.0 dB
	Limit-4 REL Stop Level	–36.0 dB
	Limit-5 REL Stop Level	–45.0 dB
	Limit-6 REL Stop Level	–45.0 dB
	Limit-1 Fail Logic	REL
	Limit-2 Fail Logic	REL
	Limit-3 Fail Logic	REL
	Limit-4 Fail Logic	REL
	Limit-5 Fail Logic	REL
	Limit-6 Fail Logic	REL

Microlink ETSI CS: 14MHz

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
Microlink ETSI CS:14MHz Class:2	Frequency Span	70 MHz
	Limit Side	Both
	Reference Mode	Peak
	Channel BW	1 kHz
	RBW	100 kHz
	VBW	300 Hz
	Sweep Time	Auto
	Auto Sweep Time Select	Fast
	Detection	Positive
	Trace Point	1001
	Filter Type	Root Nyquist
	Roll-off Factor	0.22
	Offset-1 Start Freq	0 Hz
	Offset-2 Start Freq	6.8 MHz
	Offset-3 Start Freq	8.4 MHz
	Offset-4 Start Freq	13.6 MHz
	Offset-5 Start Freq	24 MHz
	Offset-1 Stop Freq	6.8 MHz
	Offset-2 Stop Freq	8.4 MHz
	Offset-3 Stop Freq	13.6 MHz
	Offset-4 Stop Freq	24 MHz
	Offset-5 Stop Freq	35 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-3 Reference Level	Auto
	Offset-4 Reference Level	Auto
	Offset-5 Reference Level	Auto
	Offset-1 RBW	100 kHz
	Offset-2 RBW	100 kHz
	Offset-3 RBW	100 kHz
	Offset-4 RBW	100 kHz
	Offset-5 RBW	100 kHz
	Offset-1 VBW	300 Hz
	Offset-2 VBW	300 Hz
	Offset-3 VBW	300 Hz
	Offset-4 VBW	300 Hz
	Offset-5 VBW	300 Hz

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
Microlink ETSI CS:14MHz Class:2	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-3 Sweep Time	Auto
	Offset-4 Sweep Time	Auto
	Offset-5 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Fast
	Offset-2 Auto Sweep Time Select	Fast
	Offset-3 Auto Sweep Time Select	Fast
	Offset-4 Auto Sweep Time Select	Fast
	Offset-5 Auto Sweep Time Select	Fast
	Offset-1 Detection	Positive
	Offset-2 Detection	Positive
	Offset-3 Detection	Positive
	Offset-4 Detection	Positive
	Offset-5 Detection	Positive
	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-3 Trace Point	1001
	Offset-4 Trace Point	1001
	Offset-5 Trace Point	1001
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	On
	Offset-5 On/Off	On
	Limit-1 REL Start Level	1.0 dB
	Limit-2 REL Start Level	1.0 dB
	Limit-3 REL Start Level	–23.0 dB
	Limit-4 REL Start Level	–23.0 dB
	Limit-5 REL Start Level	–45.0 dB
	Limit-1 REL Stop Level	1.0 dB
	Limit-2 REL Stop Level	–23.0 dB
	Limit-3 REL Stop Level	–23.0 dB
	Limit-4 REL Stop Level	–45.0 dB
	Limit-5 REL Stop Level	–45.0 dB

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
Microlink ETSI CS:14MHz Class:2	Limit-1 Fail Logic	REL
	Limit-2 Fail Logic	REL
	Limit-3 Fail Logic	REL
	Limit-4 Fail Logic	REL
	Limit-5 Fail Logic	REL

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
Microlink ETSI CS:14MHz Class:4L Freq Band:3G - 17GHz	Frequency Span	70 MHz
	Limit Side	Both
	Reference Mode	Peak
	Channel BW	1 kHz
	RBW	100 kHz
	VBW	300 Hz
	Sweep Time	Auto
	Auto Sweep Time Select	Fast
	Detection	Positive
	Trace Point	1001
	Filter Type	Root Nyquist
	Roll-off Factor	0.22
	Offset-1 Start Freq	0 Hz
	Offset-2 Start Freq	6.4 MHz
	Offset-3 Start Freq	8.8 MHz
	Offset-4 Start Freq	28 MHz
	Offset-1 Stop Freq	6.4 MHz
	Offset-2 Stop Freq	8.8 MHz
	Offset-3 Stop Freq	28 MHz
	Offset-4 Stop Freq	35 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-3 Reference Level	Auto
	Offset-4 Reference Level	Auto
	Offset-1 RBW	100 kHz
	Offset-2 RBW	100 kHz
	Offset-3 RBW	100 kHz
	Offset-4 RBW	100 kHz
	Offset-1 VBW	300 Hz
	Offset-2 VBW	300 Hz
	Offset-3 VBW	300 Hz
	Offset-4 VBW	300 Hz
	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-3 Sweep Time	Auto
	Offset-4 Sweep Time	Auto

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
Microlink ETSI CS:14MHz Class:4L Freq Band:3G - 17GHz	Offset-1 Detection	Positive
	Offset-2 Detection	Positive
	Offset-3 Detection	Positive
	Offset-4 Detection	Positive
	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-3 Trace Point	1001
	Offset-4 Trace Point	1001
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	On
	Limit-1 REL Start Level	1.0 dB
	Limit-2 REL Start Level	1.0 dB
	Limit-3 REL Start Level	–28.0 dB
	Limit-4 REL Start Level	–55.0 dB
	Limit-1 REL Stop Level	1.0 dB
	Limit-2 REL Stop Level	–28.0 dB
	Limit-3 REL Stop Level	–55.0 dB
	Limit-4 REL Stop Level	–55.0 dB
	Limit-1 Fail Logic	REL
	Limit-2 Fail Logic	REL
	Limit-3 Fail Logic	REL
	Limit-4 Fail Logic	REL

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
Microlink ETSI CS:14MHz Class:4L Freq Band:17G - 30GHz	Frequency Span	70 MHz
	Limit Side	Both
	Reference Mode	Peak
	Channel BW	1 kHz
	RBW	100 kHz
	VBW	300 Hz
	Sweep Time	Auto
	Auto Sweep Time Select	Fast
	Detection	Positive
	Trace Point	1001
	Filter Type	Root Nyquist
	Roll-off Factor	0.22
	Offset-1 Start Freq	0 Hz
	Offset-2 Start Freq	6.4 MHz
	Offset-3 Start Freq	8.8 MHz
	Offset-4 Start Freq	24.8 MHz
	Offset-1 Stop Freq	6.4 MHz
	Offset-2 Stop Freq	8.8 MHz
	Offset-3 Stop Freq	24.8 MHz
	Offset-4 Stop Freq	35 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-3 Reference Level	Auto
	Offset-4 Reference Level	Auto
	Offset-1 RBW	100 kHz
	Offset-2 RBW	100 kHz
	Offset-3 RBW	100 kHz
	Offset-4 RBW	100 kHz
	Offset-1 VBW	300 Hz
	Offset-2 VBW	300 Hz
	Offset-3 VBW	300 Hz
	Offset-4 VBW	300 Hz
	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-3 Sweep Time	Auto
	Offset-4 Sweep Time	Auto

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
Microlink ETSI CS:14MHz Class:4L Freq Band:17G - 30GHz	Offset-1 Detection	Positive
	Offset-2 Detection	Positive
	Offset-3 Detection	Positive
	Offset-4 Detection	Positive
	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-3 Trace Point	1001
	Offset-4 Trace Point	1001
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	On
	Limit-1 REL Start Level	1.0 dB
	Limit-2 REL Start Level	1.0 dB
	Limit-3 REL Start Level	–28.0 dB
	Limit-4 REL Start Level	–50.0 dB
	Limit-1 REL Stop Level	1.0 dB
	Limit-2 REL Stop Level	–28.0 dB
	Limit-3 REL Stop Level	–50.0 dB
	Limit-4 REL Stop Level	–50.0 dB
	Limit-1 Fail Logic	REL
	Limit-2 Fail Logic	REL
	Limit-3 Fail Logic	REL
	Limit-4 Fail Logic	REL

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
Microlink ETSI CS:14MHz Class:4L Freq Band:above 30GHz	Frequency Span	70 MHz
	Limit Side	Both
	Reference Mode	Peak
	Channel BW	1 kHz
	RBW	100 kHz
	VBW	300 Hz
	Sweep Time	Auto
	Auto Sweep Time Select	Fast
	Detection	Positive
	Trace Point	1001
	Filter Type	Root Nyquist
	Roll-off Factor	0.22
	Offset-1 Start Freq	0 Hz
	Offset-2 Start Freq	6.4 MHz
	Offset-3 Start Freq	8.8 MHz
	Offset-4 Start Freq	20.8 MHz
	Offset-1 Stop Freq	6.4 MHz
	Offset-2 Stop Freq	8.8 MHz
	Offset-3 Stop Freq	20.8 MHz
	Offset-4 Stop Freq	35 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-3 Reference Level	Auto
	Offset-4 Reference Level	Auto
	Offset-1 RBW	100 kHz
	Offset-2 RBW	100 kHz
	Offset-3 RBW	100 kHz
	Offset-4 RBW	100 kHz
	Offset-1 VBW	300 Hz
	Offset-2 VBW	300 Hz
	Offset-3 VBW	300 Hz
	Offset-4 VBW	300 Hz
	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-3 Sweep Time	Auto
	Offset-4 Sweep Time	Auto

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
Microlink ETSI CS:14MHz Class:4L Freq Band:above 30GHz	Offset-1 Auto Sweep Time Select	Fast
	Offset-2 Auto Sweep Time Select	Fast
	Offset-3 Auto Sweep Time Select	Fast
	Offset-4 Auto Sweep Time Select	Fast
	Offset-1 Detection	Positive
	Offset-2 Detection	Positive
	Offset-3 Detection	Positive
	Offset-4 Detection	Positive
	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-3 Trace Point	1001
	Offset-4 Trace Point	1001
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	On
	Limit-1 REL Start Level	1.0 dB
	Limit-2 REL Start Level	1.0 dB
	Limit-3 REL Start Level	–28.0 dB
	Limit-4 REL Start Level	–45.0 dB
	Limit-1 REL Stop Level	1.0 dB
	Limit-2 REL Stop Level	–28.0 dB
	Limit-3 REL Stop Level	–45.0 dB
	Limit-4 REL Stop Level	–45.0 dB
	Limit-1 Fail Logic	REL
	Limit-2 Fail Logic	REL
	Limit-3 Fail Logic	REL
	Limit-4 Fail Logic	REL

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
Microlink ETSI CS:14MHz Class:5B Freq Band:3G - 17GHz	Frequency Span	70 MHz
	Limit Side	Both
	Reference Mode	Peak
	Channel BW	1 kHz
	RBW	100 kHz
	VBW	300 Hz
	Sweep Time	Auto
	Auto Sweep Time Select	Fast
	Detection	Positive
	Trace Point	1001
	Filter Type	Root Nyquist
	Roll-off Factor	0.22
	Offset-1 Start Freq	0 Hz
	Offset-2 Start Freq	6 MHz
	Offset-3 Start Freq	7.25 MHz
	Offset-4 Start Freq	7.75 MHz
	Offset-5 Start Freq	8.5 MHz
	Offset-6 Start Freq	20 MHz
	Offset-7 Start Freq	27 MHz
	Offset-1 Stop Freq	6 MHz
	Offset-2 Stop Freq	7.25 MHz
	Offset-3 Stop Freq	7.75 MHz
	Offset-4 Stop Freq	8.5 MHz
	Offset-5 Stop Freq	20 MHz
	Offset-6 Stop Freq	27 MHz
	Offset-7 Stop Freq	35 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-3 Reference Level	Auto
	Offset-4 Reference Level	Auto
	Offset-5 Reference Level	Auto
	Offset-6 Reference Level	Auto
	Offset-7 Reference Level	Auto
	Offset-1 RBW	100 kHz
	Offset-2 RBW	100 kHz
	Offset-3 RBW	100 kHz
	Offset-4 RBW	100 kHz
	Offset-5 RBW	100 kHz
	Offset-6 RBW	100 kHz
	Offset-7 RBW	100 kHz

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
Microlink ETSI CS:14MHz Class:5B Freq Band:3G - 17GHz	Offset-1 VBW	300 Hz
	Offset-2 VBW	300 Hz
	Offset-3 VBW	300 Hz
	Offset-4 VBW	300 Hz
	Offset-5 VBW	300 Hz
	Offset-6 VBW	300 Hz
	Offset-7 VBW	300 Hz
	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-3 Sweep Time	Auto
	Offset-4 Sweep Time	Auto
	Offset-5 Sweep Time	Auto
	Offset-6 Sweep Time	Auto
	Offset-7 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Fast
	Offset-2 Auto Sweep Time Select	Fast
	Offset-3 Auto Sweep Time Select	Fast
	Offset-4 Auto Sweep Time Select	Fast
	Offset-5 Auto Sweep Time Select	Fast
	Offset-6 Auto Sweep Time Select	Fast
	Offset-7 Auto Sweep Time Select	Fast
	Offset-1 Detection	Positive
	Offset-2 Detection	Positive
	Offset-3 Detection	Positive
	Offset-4 Detection	Positive
	Offset-5 Detection	Positive
	Offset-6 Detection	Positive
	Offset-7 Detection	Positive

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
Microlink ETSI CS:14MHz Class:5B Freq Band:3G - 17GHz	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-3 Trace Point	1001
	Offset-4 Trace Point	1001
	Offset-5 Trace Point	1001
	Offset-6 Trace Point	1001
	Offset-7 Trace Point	1001
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	On
	Offset-5 On/Off	On
	Offset-6 On/Off	On
	Offset-7 On/Off	On
	Limit-1 REL Start Level	1.0 dB
	Limit-2 REL Start Level	1.0 dB
	Limit-3 REL Start Level	–10.0 dB
	Limit-4 REL Start Level	–32.0 dB
	Limit-5 REL Start Level	–36.0 dB
	Limit-6 REL Start Level	–45.0 dB
	Limit-7 REL Start Level	–55.0 dB
	Limit-1 REL Stop Level	1.0 dB
	Limit-2 REL Stop Level	–10.0 dB
	Limit-3 REL Stop Level	–32.0 dB
	Limit-4 REL Stop Level	–36.0 dB
	Limit-5 REL Stop Level	–45.0 dB
	Limit-6 REL Stop Level	–55.0 dB
	Limit-7 REL Stop Level	–55.0 dB
	Limit-1 Fail Logic	REL
	Limit-2 Fail Logic	REL
	Limit-3 Fail Logic	REL
	Limit-4 Fail Logic	REL
	Limit-5 Fail Logic	REL
	Limit-6 Fail Logic	REL
	Limit-7 Fail Logic	REL

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
Microlink ETSI CS:14MHz Class:5B Freq Band:17G - 30GHz	Frequency Span	70 MHz
	Limit Side	Both
	Reference Mode	Peak
	Channel BW	1 kHz
	RBW	100 kHz
	VBW	300 Hz
	Sweep Time	Auto
	Auto Sweep Time Select	Fast
	Detection	Positive
	Trace Point	1001
	Filter Type	Root Nyquist
	Roll-off Factor	0.22
	Offset-1 Start Freq	0 Hz
	Offset-2 Start Freq	6 MHz
	Offset-3 Start Freq	7.25 MHz
	Offset-4 Start Freq	7.75 MHz
	Offset-5 Start Freq	8.5 MHz
	Offset-6 Start Freq	20 MHz
	Offset-7 Start Freq	23.5 MHz
	Offset-1 Stop Freq	6 MHz
	Offset-2 Stop Freq	7.25 MHz
	Offset-3 Stop Freq	7.75 MHz
	Offset-4 Stop Freq	8.5 MHz
	Offset-5 Stop Freq	20 MHz
	Offset-6 Stop Freq	23.5 MHz
	Offset-7 Stop Freq	35 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-3 Reference Level	Auto
	Offset-4 Reference Level	Auto
	Offset-5 Reference Level	Auto
	Offset-6 Reference Level	Auto
	Offset-7 Reference Level	Auto
	Offset-1 RBW	100 kHz
	Offset-2 RBW	100 kHz
	Offset-3 RBW	100 kHz
	Offset-4 RBW	100 kHz
	Offset-5 RBW	100 kHz
	Offset-6 RBW	100 kHz
	Offset-7 RBW	100 kHz

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
Microlink ETSI CS:14MHz Class:5B Freq Band:17G - 30GHz	Offset-1 VBW	300 Hz
	Offset-2 VBW	300 Hz
	Offset-3 VBW	300 Hz
	Offset-4 VBW	300 Hz
	Offset-5 VBW	300 Hz
	Offset-6 VBW	300 Hz
	Offset-7 VBW	300 Hz
	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-3 Sweep Time	Auto
	Offset-4 Sweep Time	Auto
	Offset-5 Sweep Time	Auto
	Offset-6 Sweep Time	Auto
	Offset-7 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Fast
	Offset-2 Auto Sweep Time Select	Fast
	Offset-3 Auto Sweep Time Select	Fast
	Offset-4 Auto Sweep Time Select	Fast
	Offset-5 Auto Sweep Time Select	Fast
	Offset-6 Auto Sweep Time Select	Fast
	Offset-7 Auto Sweep Time Select	Fast
	Offset-1 Detection	Positive
	Offset-2 Detection	Positive
	Offset-3 Detection	Positive
	Offset-4 Detection	Positive
	Offset-5 Detection	Positive
	Offset-6 Detection	Positive
	Offset-7 Detection	Positive

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
Microlink ETSI CS:14MHz Class:5B Freq Band:17G - 30GHz	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-3 Trace Point	1001
	Offset-4 Trace Point	1001
	Offset-5 Trace Point	1001
	Offset-6 Trace Point	1001
	Offset-7 Trace Point	1001
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	On
	Offset-5 On/Off	On
	Offset-6 On/Off	On
	Offset-7 On/Off	On
	Limit-1 REL Start Level	1.0 dB
	Limit-2 REL Start Level	1.0 dB
	Limit-3 REL Start Level	–10.0 dB
	Limit-4 REL Start Level	–32.0 dB
	Limit-5 REL Start Level	–36.0 dB
	Limit-6 REL Start Level	–45.0 dB
	Limit-7 REL Start Level	–50.0 dB
	Limit-1 REL Stop Level	1.0 dB
	Limit-2 REL Stop Level	–10.0 dB
	Limit-3 REL Stop Level	–32.0 dB
	Limit-4 REL Stop Level	–36.0 dB
	Limit-5 REL Stop Level	–45.0 dB
	Limit-6 REL Stop Level	–50.0 dB
	Limit-7 REL Stop Level	–50.0 dB
	Limit-1 Fail Logic	REL
	Limit-2 Fail Logic	REL
	Limit-3 Fail Logic	REL
	Limit-4 Fail Logic	REL
	Limit-5 Fail Logic	REL
	Limit-6 Fail Logic	REL
	Limit-7 Fail Logic	REL

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
Microlink ETSI CS:14MHz Class:5B Freq Band:above 30GHz	Frequency Span	70 MHz
	Limit Side	Both
	Reference Mode	Peak
	Channel BW	1 kHz
	RBW	100 kHz
	VBW	300 Hz
	Sweep Time	Auto
	Auto Sweep Time Select	Fast
	Detection	Positive
	Trace Point	1001
	Filter Type	Root Nyquist
	Roll-off Factor	0.22
	Offset-1 Start Freq	0 Hz
	Offset-2 Start Freq	6 MHz
	Offset-3 Start Freq	7.25 MHz
	Offset-4 Start Freq	7.75 MHz
	Offset-5 Start Freq	8.5 MHz
	Offset-6 Start Freq	20 MHz
	Offset-1 Stop Freq	6 MHz
	Offset-2 Stop Freq	7.25 MHz
	Offset-3 Stop Freq	7.75 MHz
	Offset-4 Stop Freq	8.5 MHz
	Offset-5 Stop Freq	20 MHz
	Offset-6 Stop Freq	35 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-3 Reference Level	Auto
	Offset-4 Reference Level	Auto
	Offset-5 Reference Level	Auto
	Offset-6 Reference Level	Auto
	Offset-1 RBW	100 kHz
	Offset-2 RBW	100 kHz
	Offset-3 RBW	100 kHz
	Offset-4 RBW	100 kHz
	Offset-5 RBW	100 kHz
	Offset-6 RBW	100 kHz

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
Microlink ETSI CS:14MHz Class:5B Freq Band:above 30GHz	Offset-1 VBW	300 Hz
	Offset-2 VBW	300 Hz
	Offset-3 VBW	300 Hz
	Offset-4 VBW	300 Hz
	Offset-5 VBW	300 Hz
	Offset-6 VBW	300 Hz
	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-3 Sweep Time	Auto
	Offset-4 Sweep Time	Auto
	Offset-5 Sweep Time	Auto
	Offset-6 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Fast
	Offset-2 Auto Sweep Time Select	Fast
	Offset-3 Auto Sweep Time Select	Fast
	Offset-4 Auto Sweep Time Select	Fast
	Offset-5 Auto Sweep Time Select	Fast
	Offset-6 Auto Sweep Time Select	Fast
	Offset-1 Detection	Positive
	Offset-2 Detection	Positive
	Offset-3 Detection	Positive
	Offset-4 Detection	Positive
	Offset-5 Detection	Positive
	Offset-6 Detection	Positive
	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-3 Trace Point	1001
	Offset-4 Trace Point	1001
	Offset-5 Trace Point	1001
	Offset-6 Trace Point	1001
	Offset-2 Sweep Time	Auto
	Offset-3 Sweep Time	Auto
	Offset-4 Sweep Time	Auto
	Offset-5 Sweep Time	Auto

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
Microlink ETSI CS:14MHz Class:5B Freq Band:above 30GHz	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	On
	Offset-5 On/Off	On
	Offset-6 On/Off	On
	Limit-1 REL Start Level	1.0 dB
	Limit-2 REL Start Level	1.0 dB
	Limit-3 REL Start Level	–10.0 dB
	Limit-4 REL Start Level	–32.0 dB
	Limit-5 REL Start Level	–36.0 dB
	Limit-6 REL Start Level	–45.0 dB
	Limit-1 REL Stop Level	1.0 dB
	Limit-2 REL Stop Level	–10.0 dB
	Limit-3 REL Stop Level	–32.0 dB
	Limit-4 REL Stop Level	–36.0 dB
	Limit-5 REL Stop Level	–45.0 dB
	Limit-6 REL Stop Level	–45.0 dB
	Limit-1 Fail Logic	REL
	Limit-2 Fail Logic	REL
	Limit-3 Fail Logic	REL
	Limit-4 Fail Logic	REL
	Limit-5 Fail Logic	REL
	Limit-6 Fail Logic	REL

Microlink ETSI CS: 28MHz

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
Microlink ETSI CS:28MHz Class:2	Frequency Span	140 MHz
	Limit Side	Both
	Reference Mode	Peak
	Channel BW	1 kHz
	RBW	100 kHz
	VBW	300 Hz
	Sweep Time	Auto
	Auto Sweep Time Select	Fast
	Detection	Positive
	Trace Point	1001
	Filter Type	Root Nyquist
	Roll-off Factor	0.22
	Offset-1 Start Freq	0 Hz
	Offset-2 Start Freq	12.8 MHz
	Offset-3 Start Freq	16.4 MHz
	Offset-4 Start Freq	25 MHz
	Offset-5 Start Freq	45 MHz
	Offset-1 Stop Freq	12.8 MHz
	Offset-2 Stop Freq	16.4 MHz
	Offset-3 Stop Freq	25 MHz
	Offset-4 Stop Freq	45 MHz
	Offset-5 Stop Freq	70 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-3 Reference Level	Auto
	Offset-4 Reference Level	Auto
	Offset-5 Reference Level	Auto
	Offset-1 RBW	100 kHz
	Offset-2 RBW	100 kHz
	Offset-3 RBW	100 kHz
	Offset-4 RBW	100 kHz
	Offset-5 RBW	100 kHz
	Offset-1 VBW	300 Hz
	Offset-2 VBW	300 Hz
	Offset-3 VBW	300 Hz
	Offset-4 VBW	300 Hz
	Offset-5 VBW	300 Hz

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
Microlink ETSI CS:28MHz Class:2	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-3 Sweep Time	Auto
	Offset-4 Sweep Time	Auto
	Offset-5 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Fast
	Offset-2 Auto Sweep Time Select	Fast
	Offset-3 Auto Sweep Time Select	Fast
	Offset-4 Auto Sweep Time Select	Fast
	Offset-5 Auto Sweep Time Select	Fast
	Offset-1 Detection	Positive
	Offset-2 Detection	Positive
	Offset-3 Detection	Positive
	Offset-4 Detection	Positive
	Offset-5 Detection	Positive
	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-3 Trace Point	1001
	Offset-4 Trace Point	1001
	Offset-5 Trace Point	1001

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
Microlink ETSI CS:28MHz Class:2	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	On
	Offset-5 On/Off	On
	Limit-1 REL Start Level	2.0 dB
	Limit-2 REL Start Level	2.0 dB
	Limit-3 REL Start Level	–23.0 dB
	Limit-4 REL Start Level	–23.0 dB
	Limit-5 REL Start Level	–45.0 dB
	Limit-1 REL Stop Level	2.0 dB
	Limit-2 REL Stop Level	–23.0 dB
	Limit-3 REL Stop Level	–23.0 dB
	Limit-4 REL Stop Level	–45.0 dB
	Limit-5 REL Stop Level	–45.0 dB
	Limit-1 Fail Logic	REL
	Limit-2 Fail Logic	REL
	Limit-3 Fail Logic	REL
	Limit-4 Fail Logic	REL
	Limit-5 Fail Logic	REL

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
Microlink ETSI CS:28MHz Class:4L Freq Band:3G - 17GHz	Frequency Span	140 MHz
	Limit Side	Both
	Reference Mode	Peak
	Channel BW	1 kHz
	RBW	100 kHz
	VBW	300 Hz
	Sweep Time	Auto
	Auto Sweep Time Select	Fast
	Detection	Positive
	Trace Point	1001
	Filter Type	Root Nyquist
	Roll-off Factor	0.22
	Offset-1 Start Freq	0 Hz
	Offset-2 Start Freq	12.8 MHz
	Offset-3 Start Freq	17 MHz
	Offset-4 Start Freq	56 MHz
	Offset-1 Stop Freq	12.8 MHz
	Offset-2 Stop Freq	17 MHz
	Offset-3 Stop Freq	56 MHz
	Offset-4 Stop Freq	70 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-3 Reference Level	Auto
	Offset-4 Reference Level	Auto
	Offset-1 RBW	100 kHz
	Offset-2 RBW	100 kHz
	Offset-3 RBW	100 kHz
	Offset-4 RBW	100 kHz
	Offset-1 VBW	300 Hz
	Offset-2 VBW	300 Hz
	Offset-3 VBW	300 Hz
	Offset-4 VBW	300 Hz
	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-3 Sweep Time	Auto
	Offset-4 Sweep Time	Auto

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
Microlink ETSI CS:28MHz Class:4L Freq Band:3G - 17GHz	Offset-1 Auto Sweep Time Select	Fast
	Offset-2 Auto Sweep Time Select	Fast
	Offset-3 Auto Sweep Time Select	Fast
	Offset-4 Auto Sweep Time Select	Fast
	Offset-1 Detection	Positive
	Offset-2 Detection	Positive
	Offset-3 Detection	Positive
	Offset-4 Detection	Positive
	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-3 Trace Point	1001
	Offset-4 Trace Point	1001
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	On
	Limit-1 REL Start Level	2.0 dB
	Limit-2 REL Start Level	2.0 dB
	Limit-3 REL Start Level	–27.0 dB
	Limit-4 REL Start Level	–55.0 dB
	Limit-1 REL Stop Level	2.0 dB
	Limit-2 REL Stop Level	–27.0 dB
	Limit-3 REL Stop Level	–55.0 dB
	Limit-4 REL Stop Level	–55.0 dB
	Limit-1 Fail Logic	REL
	Limit-2 Fail Logic	REL
	Limit-3 Fail Logic	REL
	Limit-4 Fail Logic	REL

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
Microlink ETSI CS:28MHz Class:4L Freq Band:17G - 30GHz	Frequency Span	140 MHz
	Limit Side	Both
	Reference Mode	Peak
	Channel BW	1 kHz
	RBW	100 kHz
	VBW	300 Hz
	Sweep Time	Auto
	Auto Sweep Time Select	Fast
	Detection	Positive
	Trace Point	1001
	Filter Type	Root Nyquist
	Roll-off Factor	0.22
	Offset-1 Start Freq	0 Hz
	Offset-2 Start Freq	12.8 MHz
	Offset-3 Start Freq	17 MHz
	Offset-4 Start Freq	49 MHz
	Offset-1 Stop Freq	12.8 MHz
	Offset-2 Stop Freq	17 MHz
	Offset-3 Stop Freq	49 MHz
	Offset-4 Stop Freq	70 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-3 Reference Level	Auto
	Offset-4 Reference Level	Auto
	Offset-1 RBW	100 kHz
	Offset-2 RBW	100 kHz
	Offset-3 RBW	100 kHz
	Offset-4 RBW	100 kHz
	Offset-1 VBW	300 Hz
	Offset-2 VBW	300 Hz
	Offset-3 VBW	300 Hz
	Offset-4 VBW	300 Hz
	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-3 Sweep Time	Auto
	Offset-4 Sweep Time	Auto

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
Microlink ETSI CS:28MHz Class:4L Freq Band:17G - 30GHz	Offset-1 Auto Sweep Time Select	Fast
	Offset-2 Auto Sweep Time Select	Fast
	Offset-3 Auto Sweep Time Select	Fast
	Offset-4 Auto Sweep Time Select	Fast
	Offset-1 Detection	Positive
	Offset-2 Detection	Positive
	Offset-3 Detection	Positive
	Offset-4 Detection	Positive
	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-3 Trace Point	1001
	Offset-4 Trace Point	1001
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	On
	Limit-1 REL Start Level	2.0 dB
	Limit-2 REL Start Level	2.0 dB
	Limit-3 REL Start Level	–27.0 dB
	Limit-4 REL Start Level	–50.0 dB
	Limit-1 REL Stop Level	2.0 dB
	Limit-2 REL Stop Level	–27.0 dB
	Limit-3 REL Stop Level	–50.0 dB
	Limit-4 REL Stop Level	–50.0 dB
	Limit-1 Fail Logic	REL
	Limit-2 Fail Logic	REL
	Limit-3 Fail Logic	REL
	Limit-4 Fail Logic	REL

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
Microlink ETSI CS:28MHz Class:4L Freq Band:above 30GHz	Frequency Span	140 MHz
	Limit Side	Both
	Reference Mode	Peak
	Channel BW	1 kHz
	RBW	100 kHz
	VBW	300 Hz
	Sweep Time	Auto
	Auto Sweep Time Select	Fast
	Detection	Positive
	Trace Point	1001
	Filter Type	Root Nyquist
	Roll-off Factor	0.22
	Offset-1 Start Freq	0 Hz
	Offset-2 Start Freq	12.8 MHz
	Offset-3 Start Freq	17 MHz
	Offset-4 Start Freq	42 MHz
	Offset-1 Stop Freq	12.8 MHz
	Offset-2 Stop Freq	17 MHz
	Offset-3 Stop Freq	42 MHz
	Offset-4 Stop Freq	70 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-3 Reference Level	Auto
	Offset-4 Reference Level	Auto
	Offset-1 RBW	100 kHz
	Offset-2 RBW	100 kHz
	Offset-3 RBW	100 kHz
	Offset-4 RBW	100 kHz
	Offset-1 VBW	300 Hz
	Offset-2 VBW	300 Hz
	Offset-3 VBW	300 Hz
	Offset-4 VBW	300 Hz
	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-3 Sweep Time	Auto
	Offset-4 Sweep Time	Auto

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
Microlink ETSI CS:28MHz Class:4L Freq Band:above 30GHz	Offset-1 Auto Sweep Time Select	Fast
	Offset-2 Auto Sweep Time Select	Fast
	Offset-3 Auto Sweep Time Select	Fast
	Offset-4 Auto Sweep Time Select	Fast
	Offset-1 Detection	Positive
	Offset-2 Detection	Positive
	Offset-3 Detection	Positive
	Offset-4 Detection	Positive
	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-3 Trace Point	1001
	Offset-4 Trace Point	1001
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	On
	Limit-1 REL Start Level	2.0 dB
	Limit-2 REL Start Level	2.0 dB
	Limit-3 REL Start Level	–27.0 dB
	Limit-4 REL Start Level	–45.0 dB
	Limit-1 REL Stop Level	2.0 dB
	Limit-2 REL Stop Level	–27.0 dB
	Limit-3 REL Stop Level	–45.0 dB
	Limit-4 REL Stop Level	–45.0 dB
	Limit-1 Fail Logic	REL
	Limit-2 Fail Logic	REL
	Limit-3 Fail Logic	REL
	Limit-4 Fail Logic	REL

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
Microlink ETSI CS:28MHz Class:4H Freq Band:3G - 17GHz	Frequency Span	140 MHz
	Limit Side	Both
	Reference Mode	Peak
	Channel BW	1 kHz
	RBW	100 kHz
	VBW	300 Hz
	Sweep Time	Auto
	Auto Sweep Time Select	Fast
	Detection	Positive
	Trace Point	1001
	Filter Type	Root Nyquist
	Roll-off Factor	0.22
	Offset-1 Start Freq	0 Hz
	Offset-2 Start Freq	12 MHz
	Offset-3 Start Freq	15 MHz
	Offset-4 Start Freq	16.8 MHz
	Offset-5 Start Freq	35 MHz
	Offset-6 Start Freq	55 MHz
	Offset-1 Stop Freq	12 MHz
	Offset-2 Stop Freq	15 MHz
	Offset-3 Stop Freq	16.8 MHz
	Offset-4 Stop Freq	35 MHz
	Offset-5 Stop Freq	55 MHz
	Offset-6 Stop Freq	70 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-3 Reference Level	Auto
	Offset-4 Reference Level	Auto
	Offset-5 Reference Level	Auto
	Offset-6 Reference Level	Auto
	Offset-1 RBW	100 kHz
	Offset-2 RBW	100 kHz
	Offset-3 RBW	100 kHz
	Offset-4 RBW	100 kHz
	Offset-5 RBW	100 kHz
	Offset-6 RBW	100 kHz

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
Microlink ETSI CS:28MHz Class:4H Freq Band:3G - 17GHz	Offset-1 VBW	300 Hz
	Offset-2 VBW	300 Hz
	Offset-3 VBW	300 Hz
	Offset-4 VBW	300 Hz
	Offset-5 VBW	300 Hz
	Offset-6 VBW	300 Hz
	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-3 Sweep Time	Auto
	Offset-4 Sweep Time	Auto
	Offset-5 Sweep Time	Auto
	Offset-6 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Fast
	Offset-2 Auto Sweep Time Select	Fast
	Offset-3 Auto Sweep Time Select	Fast
	Offset-4 Auto Sweep Time Select	Fast
	Offset-5 Auto Sweep Time Select	Fast
	Offset-6 Auto Sweep Time Select	Fast
	Offset-1 Detection	Positive
	Offset-2 Detection	Positive
	Offset-3 Detection	Positive
	Offset-4 Detection	Positive
	Offset-5 Detection	Positive
	Offset-6 Detection	Positive
	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-3 Trace Point	1001
	Offset-4 Trace Point	1001
	Offset-5 Trace Point	1001
	Offset-6 Trace Point	1001

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
Microlink ETSI CS:28MHz Class:4H Freq Band:3G - 17GHz	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	On
	Offset-5 On/Off	On
	Offset-6 On/Off	On
	Limit-1 REL Start Level	2.0 dB
	Limit-2 REL Start Level	2.0 dB
	Limit-3 REL Start Level	–10.0 dB
	Limit-4 REL Start Level	–33.0 dB
	Limit-5 REL Start Level	–40.0 dB
	Limit-6 REL Start Level	–55.0 dB
	Limit-1 REL Stop Level	2.0 dB
	Limit-2 REL Stop Level	–10.0 dB
	Limit-3 REL Stop Level	–33.0 dB
	Limit-4 REL Stop Level	–40.0 dB
	Limit-5 REL Stop Level	–55.0 dB
	Limit-6 REL Stop Level	–55.0 dB
	Limit-1 Fail Logic	REL
	Limit-2 Fail Logic	REL
	Limit-3 Fail Logic	REL
	Limit-4 Fail Logic	REL
	Limit-5 Fail Logic	REL
	Limit-6 Fail Logic	REL

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
Microlink ETSI CS:28MHz Class:4H Freq Band:17G - 30GHz	Frequency Span	140 MHz
	Limit Side	Both
	Reference Mode	Peak
	Channel BW	1 kHz
	RBW	100 kHz
	VBW	300 Hz
	Sweep Time	Auto
	Auto Sweep Time Select	Fast
	Detection	Positive
	Trace Point	1001
	Filter Type	Root Nyquist
	Roll-off Factor	0.22
	Offset-1 Start Freq	0 Hz
	Offset-2 Start Freq	12 MHz
	Offset-3 Start Freq	15 MHz
	Offset-4 Start Freq	16.8 MHz
	Offset-5 Start Freq	35 MHz
	Offset-6 Start Freq	48.3 MHz
	Offset-1 Stop Freq	12 MHz
	Offset-2 Stop Freq	15 MHz
	Offset-3 Stop Freq	16.8 MHz
	Offset-4 Stop Freq	35 MHz
	Offset-5 Stop Freq	48.3 MHz
	Offset-6 Stop Freq	70 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-3 Reference Level	Auto
	Offset-4 Reference Level	Auto
	Offset-5 Reference Level	Auto
	Offset-6 Reference Level	Auto
	Offset-1 RBW	100 kHz
	Offset-2 RBW	100 kHz
	Offset-3 RBW	100 kHz
	Offset-4 RBW	100 kHz
	Offset-5 RBW	100 kHz
	Offset-6 RBW	100 kHz

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
Microlink ETSI CS:28MHz Class:4H Freq Band:17G - 30GHz	Offset-1 VBW	300 Hz
	Offset-2 VBW	300 Hz
	Offset-3 VBW	300 Hz
	Offset-4 VBW	300 Hz
	Offset-5 VBW	300 Hz
	Offset-6 VBW	300 Hz
	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-3 Sweep Time	Auto
	Offset-4 Sweep Time	Auto
	Offset-5 Sweep Time	Auto
	Offset-6 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Fast
	Offset-2 Auto Sweep Time Select	Fast
	Offset-3 Auto Sweep Time Select	Fast
	Offset-4 Auto Sweep Time Select	Fast
	Offset-5 Auto Sweep Time Select	Fast
	Offset-6 Auto Sweep Time Select	Fast
	Offset-1 Detection	Positive
	Offset-2 Detection	Positive
	Offset-3 Detection	Positive
	Offset-4 Detection	Positive
	Offset-5 Detection	Positive
	Offset-6 Detection	Positive
	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-3 Trace Point	1001
	Offset-4 Trace Point	1001
	Offset-5 Trace Point	1001
	Offset-6 Trace Point	1001

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
Microlink ETSI CS:28MHz Class:4H Freq Band:17G - 30GHz	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	On
	Offset-5 On/Off	On
	Offset-6 On/Off	On
	Limit-1 REL Start Level	2.0 dB
	Limit-2 REL Start Level	2.0 dB
	Limit-3 REL Start Level	–10.0 dB
	Limit-4 REL Start Level	–33.0 dB
	Limit-5 REL Start Level	–40.0 dB
	Limit-6 REL Start Level	–50.0 dB
	Limit-1 REL Stop Level	2.0 dB
	Limit-2 REL Stop Level	–10.0 dB
	Limit-3 REL Stop Level	–33.0 dB
	Limit-4 REL Stop Level	–40.0 dB
	Limit-5 REL Stop Level	–50.0 dB
	Limit-6 REL Stop Level	–50.0 dB
	Limit-1 Fail Logic	REL
	Limit-2 Fail Logic	REL
	Limit-3 Fail Logic	REL
	Limit-4 Fail Logic	REL
	Limit-5 Fail Logic	REL
	Limit-6 Fail Logic	REL

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
Microlink ETSI CS:28MHz Class:4H Freq Band:above 30GHz	Frequency Span	140 MHz
	Limit Side	Both
	Reference Mode	Peak
	Channel BW	1 kHz
	RBW	100 kHz
	VBW	300 Hz
	Sweep Time	Auto
	Auto Sweep Time Select	Fast
	Detection	Positive
	Trace Point	1001
	Filter Type	Root Nyquist
	Roll-off Factor	0.22
	Offset-1 Start Freq	0 Hz
	Offset-2 Start Freq	12 MHz
	Offset-3 Start Freq	15 MHz
	Offset-4 Start Freq	16.8 MHz
	Offset-5 Start Freq	35 MHz
	Offset-6 Start Freq	41.7 MHz
	Offset-1 Stop Freq	12 MHz
	Offset-2 Stop Freq	15 MHz
	Offset-3 Stop Freq	16.8 MHz
	Offset-4 Stop Freq	35 MHz
	Offset-5 Stop Freq	41.7 MHz
	Offset-6 Stop Freq	70 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-3 Reference Level	Auto
	Offset-4 Reference Level	Auto
	Offset-5 Reference Level	Auto
	Offset-6 Reference Level	Auto
	Offset-1 RBW	100 kHz
	Offset-2 RBW	100 kHz
	Offset-3 RBW	100 kHz
	Offset-4 RBW	100 kHz
	Offset-5 RBW	100 kHz
	Offset-6 RBW	100 kHz

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
Microlink ETSI CS:28MHz Class:4H Freq Band:above 30GHz	Offset-1 VBW	300 Hz
	Offset-2 VBW	300 Hz
	Offset-3 VBW	300 Hz
	Offset-4 VBW	300 Hz
	Offset-5 VBW	300 Hz
	Offset-6 VBW	300 Hz
	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-3 Sweep Time	Auto
	Offset-4 Sweep Time	Auto
	Offset-5 Sweep Time	Auto
	Offset-6 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Fast
	Offset-2 Auto Sweep Time Select	Fast
	Offset-3 Auto Sweep Time Select	Fast
	Offset-4 Auto Sweep Time Select	Fast
	Offset-5 Auto Sweep Time Select	Fast
	Offset-6 Auto Sweep Time Select	Fast
	Offset-1 Detection	Positive
	Offset-2 Detection	Positive
	Offset-3 Detection	Positive
	Offset-4 Detection	Positive
	Offset-5 Detection	Positive
	Offset-6 Detection	Positive
	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-3 Trace Point	1001
	Offset-4 Trace Point	1001
	Offset-5 Trace Point	1001
	Offset-6 Trace Point	1001

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
Microlink ETSI CS:28MHz Class:4H Freq Band:above 30GHz	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	On
	Offset-5 On/Off	On
	Offset-6 On/Off	On
	Limit-1 REL Start Level	2.0 dB
	Limit-2 REL Start Level	2.0 dB
	Limit-3 REL Start Level	–10.0 dB
	Limit-4 REL Start Level	–33.0 dB
	Limit-5 REL Start Level	–40.0 dB
	Limit-6 REL Start Level	–45.0 dB
	Limit-1 REL Stop Level	2.0 dB
	Limit-2 REL Stop Level	–10.0 dB
	Limit-3 REL Stop Level	–33.0 dB
	Limit-4 REL Stop Level	–40.0 dB
	Limit-5 REL Stop Level	–45.0 dB
	Limit-6 REL Stop Level	–45.0 dB
	Limit-1 Fail Logic	REL
	Limit-2 Fail Logic	REL
	Limit-3 Fail Logic	REL
	Limit-4 Fail Logic	REL
	Limit-5 Fail Logic	REL
	Limit-6 Fail Logic	REL

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
Microlink ETSI CS:28MHz Class:5A - 6A Freq Band:3G - 17GHz	Frequency Span	140 MHz
	Limit Side	Both
	Reference Mode	Peak
	Channel BW	1 kHz
	RBW	100 kHz
	VBW	300 Hz
	Sweep Time	Auto
	Auto Sweep Time Select	Fast
	Detection	Positive
	Trace Point	1001
	Filter Type	Root Nyquist
	Roll-off Factor	0.22
	Offset-1 Start Freq	0 Hz
	Offset-2 Start Freq	12.5 MHz
	Offset-3 Start Freq	15 MHz
	Offset-4 Start Freq	17 MHz
	Offset-5 Start Freq	20 MHz
	Offset-6 Start Freq	40 MHz
	Offset-7 Start Freq	54 MHz
	Offset-1 Stop Freq	12.5 MHz
	Offset-2 Stop Freq	15 MHz
	Offset-3 Stop Freq	17 MHz
	Offset-4 Stop Freq	20 MHz
	Offset-5 Stop Freq	40 MHz
	Offset-6 Stop Freq	54 MHz
	Offset-7 Stop Freq	70 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-3 Reference Level	Auto
	Offset-4 Reference Level	Auto
	Offset-5 Reference Level	Auto
	Offset-6 Reference Level	Auto
	Offset-7 Reference Level	Auto
	Offset-1 RBW	100 kHz
	Offset-2 RBW	100 kHz
	Offset-3 RBW	100 kHz
	Offset-4 RBW	100 kHz
	Offset-5 RBW	100 kHz
	Offset-6 RBW	100 kHz
	Offset-7 RBW	100 kHz

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
Microlink ETSI CS:28MHz Class:5A - 6A Freq Band:3G - 17GHz	Offset-1 VBW	300 Hz
	Offset-2 VBW	300 Hz
	Offset-3 VBW	300 Hz
	Offset-4 VBW	300 Hz
	Offset-5 VBW	300 Hz
	Offset-6 VBW	300 Hz
	Offset-7 VBW	300 Hz
	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-3 Sweep Time	Auto
	Offset-4 Sweep Time	Auto
	Offset-5 Sweep Time	Auto
	Offset-6 Sweep Time	Auto
	Offset-7 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Fast
	Offset-2 Auto Sweep Time Select	Fast
	Offset-3 Auto Sweep Time Select	Fast
	Offset-4 Auto Sweep Time Select	Fast
	Offset-5 Auto Sweep Time Select	Fast
	Offset-6 Auto Sweep Time Select	Fast
	Offset-7 Auto Sweep Time Select	Fast
	Offset-1 Detection	Positive
	Offset-2 Detection	Positive
	Offset-3 Detection	Positive
	Offset-4 Detection	Positive
	Offset-5 Detection	Positive
	Offset-6 Detection	Positive
	Offset-7 Detection	Positive

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
Microlink ETSI CS:28MHz Class:5A - 6A Freq Band:3G - 17GHz	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-3 Trace Point	1001
	Offset-4 Trace Point	1001
	Offset-5 Trace Point	1001
	Offset-6 Trace Point	1001
	Offset-7 Trace Point	1001
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	On
	Offset-5 On/Off	On
	Offset-6 On/Off	On
	Offset-7 On/Off	On
	Limit-1 REL Start Level	2.0 dB
	Limit-2 REL Start Level	2.0 dB
	Limit-3 REL Start Level	–10.0 dB
	Limit-4 REL Start Level	–32.0 dB
	Limit-5 REL Start Level	–35.0 dB
	Limit-6 REL Start Level	–45.0 dB
	Limit-7 REL Start Level	–55.0 dB
	Limit-1 REL Stop Level	2.0 dB
	Limit-2 REL Stop Level	–10.0 dB
	Limit-3 REL Stop Level	–32.0 dB
	Limit-4 REL Stop Level	–35.0 dB
	Limit-5 REL Stop Level	–45.0 dB
	Limit-6 REL Stop Level	–55.0 dB
	Limit-7 REL Stop Level	–55.0 dB
	Limit-1 Fail Logic	REL
	Limit-2 Fail Logic	REL
	Limit-3 Fail Logic	REL
	Limit-4 Fail Logic	REL
	Limit-5 Fail Logic	REL
	Limit-6 Fail Logic	REL
	Limit-7 Fail Logic	REL

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
Microlink ETSI CS: 28MHz Class:5A - 6A Freq Band:17G - 30GHz	Frequency Span	140 MHz
	Limit Side	Both
	Reference Mode	Peak
	Channel BW	1 kHz
	RBW	100 kHz
	VBW	300 Hz
	Sweep Time	Auto
	Auto Sweep Time Select	Fast
	Detection	Positive
	Trace Point	1001
	Filter Type	Root Nyquist
	Roll-off Factor	0.22
	Offset-1 Start Freq	0 Hz
	Offset-2 Start Freq	12.5 MHz
	Offset-3 Start Freq	15 MHz
	Offset-4 Start Freq	17 MHz
	Offset-5 Start Freq	20 MHz
	Offset-6 Start Freq	40 MHz
	Offset-7 Start Freq	47 MHz
	Offset-1 Stop Freq	12.5 MHz
	Offset-2 Stop Freq	15 MHz
	Offset-3 Stop Freq	17 MHz
	Offset-4 Stop Freq	20 MHz
	Offset-5 Stop Freq	40 MHz
	Offset-6 Stop Freq	47 MHz
	Offset-7 Stop Freq	70 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-3 Reference Level	Auto
	Offset-4 Reference Level	Auto
	Offset-5 Reference Level	Auto
	Offset-6 Reference Level	Auto
	Offset-7 Reference Level	Auto
	Offset-1 RBW	100 kHz
	Offset-2 RBW	100 kHz
	Offset-3 RBW	100 kHz
	Offset-4 RBW	100 kHz
	Offset-5 RBW	100 kHz
	Offset-6 RBW	100 kHz
	Offset-7 RBW	100 kHz

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
Microlink ETSI CS: 28MHz Class:5A - 6A Freq Band:17G - 30GHz	Offset-1 VBW	300 Hz
	Offset-2 VBW	300 Hz
	Offset-3 VBW	300 Hz
	Offset-4 VBW	300 Hz
	Offset-5 VBW	300 Hz
	Offset-6 VBW	300 Hz
	Offset-7 VBW	300 Hz
	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-3 Sweep Time	Auto
	Offset-4 Sweep Time	Auto
	Offset-5 Sweep Time	Auto
	Offset-6 Sweep Time	Auto
	Offset-7 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Fast
	Offset-2 Auto Sweep Time Select	Fast
	Offset-3 Auto Sweep Time Select	Fast
	Offset-4 Auto Sweep Time Select	Fast
	Offset-5 Auto Sweep Time Select	Fast
	Offset-6 Auto Sweep Time Select	Fast
	Offset-7 Auto Sweep Time Select	Fast
	Offset-1 Detection	Positive
	Offset-2 Detection	Positive
	Offset-3 Detection	Positive
	Offset-4 Detection	Positive
	Offset-5 Detection	Positive
	Offset-6 Detection	Positive
	Offset-7 Detection	Positive

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
Microlink ETSI CS: 28MHz Class:5A - 6A Freq Band:17G - 30GHz	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-3 Trace Point	1001
	Offset-4 Trace Point	1001
	Offset-5 Trace Point	1001
	Offset-6 Trace Point	1001
	Offset-7 Trace Point	1001
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	On
	Offset-5 On/Off	On
	Offset-6 On/Off	On
	Offset-7 On/Off	On
	Limit-1 REL Start Level	2.0 dB
	Limit-2 REL Start Level	2.0 dB
	Limit-3 REL Start Level	–10.0 dB
	Limit-4 REL Start Level	–32.0 dB
	Limit-5 REL Start Level	–35.0 dB
	Limit-6 REL Start Level	–45.0 dB
	Limit-7 REL Start Level	–50.0 dB
	Limit-1 REL Stop Level	2.0 dB
	Limit-2 REL Stop Level	–10.0 dB
	Limit-3 REL Stop Level	–32.0 dB
	Limit-4 REL Stop Level	–35.0 dB
	Limit-5 REL Stop Level	–45.0 dB
	Limit-6 REL Stop Level	–50.0 dB
	Limit-7 REL Stop Level	–50.0 dB
	Limit-1 Fail Logic	REL
	Limit-2 Fail Logic	REL
	Limit-3 Fail Logic	REL
	Limit-4 Fail Logic	REL
	Limit-5 Fail Logic	REL
	Limit-6 Fail Logic	REL
	Limit-7 Fail Logic	REL

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
Microlink ETSI CS:28MHz Class:5A - 6A Freq Band:above 30GHz	Frequency Span	140 MHz
	Limit Side	Both
	Reference Mode	Peak
	Channel BW	1 kHz
	RBW	100 kHz
	VBW	300 Hz
	Sweep Time	Auto
	Auto Sweep Time Select	Fast
	Detection	Positive
	Trace Point	1001
	Filter Type	Root Nyquist
	Roll-off Factor	0.22
	Offset-1 Start Freq	0 Hz
	Offset-2 Start Freq	12.5 MHz
	Offset-3 Start Freq	15 MHz
	Offset-4 Start Freq	17 MHz
	Offset-5 Start Freq	20 MHz
	Offset-6 Start Freq	40 MHz
	Offset-1 Stop Freq	12.5 MHz
	Offset-2 Stop Freq	15 MHz
	Offset-3 Stop Freq	17 MHz
	Offset-4 Stop Freq	20 MHz
	Offset-5 Stop Freq	40 MHz
	Offset-6 Stop Freq	70 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-3 Reference Level	Auto
	Offset-4 Reference Level	Auto
	Offset-5 Reference Level	Auto
	Offset-6 Reference Level	Auto
	Offset-1 RBW	100 kHz
	Offset-2 RBW	100 kHz
	Offset-3 RBW	100 kHz
	Offset-4 RBW	100 kHz
	Offset-5 RBW	100 kHz
	Offset-6 RBW	100 kHz

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
Microlink ETSI CS:28MHz Class:5A - 6A Freq Band:above 30GHz	Offset-1 VBW	300 Hz
	Offset-2 VBW	300 Hz
	Offset-3 VBW	300 Hz
	Offset-4 VBW	300 Hz
	Offset-5 VBW	300 Hz
	Offset-6 VBW	300 Hz
	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-3 Sweep Time	Auto
	Offset-4 Sweep Time	Auto
	Offset-5 Sweep Time	Auto
	Offset-6 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Fast
	Offset-2 Auto Sweep Time Select	Fast
	Offset-3 Auto Sweep Time Select	Fast
	Offset-4 Auto Sweep Time Select	Fast
	Offset-5 Auto Sweep Time Select	Fast
	Offset-6 Auto Sweep Time Select	Fast
	Offset-1 Detection	Positive
	Offset-2 Detection	Positive
	Offset-3 Detection	Positive
	Offset-4 Detection	Positive
	Offset-5 Detection	Positive
	Offset-6 Detection	Positive
	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-3 Trace Point	1001
	Offset-4 Trace Point	1001
	Offset-5 Trace Point	1001
	Offset-6 Trace Point	1001
	Offset-2 Sweep Time	Auto
	Offset-3 Sweep Time	Auto
	Offset-4 Sweep Time	Auto
	Offset-5 Sweep Time	Auto

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
Microlink ETSI CS:28MHz Class:5A - 6A Freq Band:above 30GHz	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	On
	Offset-5 On/Off	On
	Offset-6 On/Off	On
	Limit-1 REL Start Level	2.0 dB
	Limit-2 REL Start Level	2.0 dB
	Limit-3 REL Start Level	–10.0 dB
	Limit-4 REL Start Level	–32.0 dB
	Limit-5 REL Start Level	–35.0 dB
	Limit-6 REL Start Level	–45.0 dB
	Limit-1 REL Stop Level	2.0 dB
	Limit-2 REL Stop Level	–10.0 dB
	Limit-3 REL Stop Level	–32.0 dB
	Limit-4 REL Stop Level	–35.0 dB
	Limit-5 REL Stop Level	–45.0 dB
	Limit-6 REL Stop Level	–45.0 dB
	Limit-1 Fail Logic	REL
	Limit-2 Fail Logic	REL
	Limit-3 Fail Logic	REL
	Limit-4 Fail Logic	REL
	Limit-5 Fail Logic	REL
	Limit-6 Fail Logic	REL

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
Microlink ETSI CS:28MHz Class:5B - 6B Freq Band:3G - 17GHz	Frequency Span	140 MHz
	Limit Side	Both
	Reference Mode	Peak
	Channel BW	1 kHz
	RBW	100 kHz
	VBW	300 Hz
	Sweep Time	Auto
	Auto Sweep Time Select	Fast
	Detection	Positive
	Trace Point	1001
	Filter Type	Root Nyquist
	Roll-off Factor	0.22
	Offset-1 Start Freq	0 Hz
	Offset-2 Start Freq	12 MHz
	Offset-3 Start Freq	14.5 MHz
	Offset-4 Start Freq	15.5 MHz
	Offset-5 Start Freq	17 MHz
	Offset-6 Start Freq	40 MHz
	Offset-7 Start Freq	54 MHz
	Offset-1 Stop Freq	12 MHz
	Offset-2 Stop Freq	14.5 MHz
	Offset-3 Stop Freq	15.5 MHz
	Offset-4 Stop Freq	17 MHz
	Offset-5 Stop Freq	40 MHz
	Offset-6 Stop Freq	54 MHz
	Offset-7 Stop Freq	70 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-3 Reference Level	Auto
	Offset-4 Reference Level	Auto
	Offset-5 Reference Level	Auto
	Offset-6 Reference Level	Auto
	Offset-7 Reference Level	Auto
	Offset-1 RBW	100 kHz
	Offset-2 RBW	100 kHz
	Offset-3 RBW	100 kHz
	Offset-4 RBW	100 kHz
	Offset-5 RBW	100 kHz
	Offset-6 RBW	100 kHz
	Offset-7 RBW	100 kHz

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
Microlink ETSI CS:28MHz Class:5B - 6B Freq Band:3G - 17GHz	Offset-1 VBW	300 Hz
	Offset-2 VBW	300 Hz
	Offset-3 VBW	300 Hz
	Offset-4 VBW	300 Hz
	Offset-5 VBW	300 Hz
	Offset-6 VBW	300 Hz
	Offset-7 VBW	300 Hz
	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-3 Sweep Time	Auto
	Offset-4 Sweep Time	Auto
	Offset-5 Sweep Time	Auto
	Offset-6 Sweep Time	Auto
	Offset-7 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Fast
	Offset-2 Auto Sweep Time Select	Fast
	Offset-3 Auto Sweep Time Select	Fast
	Offset-4 Auto Sweep Time Select	Fast
	Offset-5 Auto Sweep Time Select	Fast
	Offset-6 Auto Sweep Time Select	Fast
	Offset-7 Auto Sweep Time Select	Fast
	Offset-1 Detection	Positive
	Offset-2 Detection	Positive
	Offset-3 Detection	Positive
	Offset-4 Detection	Positive
	Offset-5 Detection	Positive
	Offset-6 Detection	Positive
	Offset-7 Detection	Positive

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
Microlink ETSI CS:28MHz Class:5B - 6B Freq Band:3G - 17GHz	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-3 Trace Point	1001
	Offset-4 Trace Point	1001
	Offset-5 Trace Point	1001
	Offset-6 Trace Point	1001
	Offset-7 Trace Point	1001
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	On
	Offset-5 On/Off	On
	Offset-6 On/Off	On
	Offset-7 On/Off	On
	Limit-1 REL Start Level	2.0 dB
	Limit-2 REL Start Level	2.0 dB
	Limit-3 REL Start Level	–10.0 dB
	Limit-4 REL Start Level	–32.0 dB
	Limit-5 REL Start Level	–36.0 dB
	Limit-6 REL Start Level	–45.0 dB
	Limit-7 REL Start Level	–55.0 dB
	Limit-1 REL Stop Level	2.0 dB
	Limit-2 REL Stop Level	–10.0 dB
	Limit-3 REL Stop Level	–32.0 dB
	Limit-4 REL Stop Level	–36.0 dB
	Limit-5 REL Stop Level	–45.0 dB
	Limit-6 REL Stop Level	–55.0 dB
	Limit-7 REL Stop Level	–55.0 dB
	Limit-1 Fail Logic	REL
	Limit-2 Fail Logic	REL
	Limit-3 Fail Logic	REL
	Limit-4 Fail Logic	REL
	Limit-5 Fail Logic	REL
	Limit-6 Fail Logic	REL
	Limit-7 Fail Logic	REL

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
Microlink ETSI CS:28MHz Class:5B6B Freq Band: 17G - 30GHz	Frequency Span	140 MHz
	Limit Side	Both
	Reference Mode	Peak
	Channel BW	1 kHz
	RBW	100 kHz
	VBW	300 Hz
	Sweep Time	Auto
	Auto Sweep Time Select	Fast
	Detection	Positive
	Trace Point	1001
	Filter Type	Root Nyquist
	Roll-off Factor	0.22
	Offset-1 Start Freq	0 Hz
	Offset-2 Start Freq	12 MHz
	Offset-3 Start Freq	14.5 MHz
	Offset-4 Start Freq	15.5 MHz
	Offset-5 Start Freq	17 MHz
	Offset-6 Start Freq	40 MHz
	Offset-7 Start Freq	47 MHz
	Offset-1 Stop Freq	12 MHz
	Offset-2 Stop Freq	14.5 MHz
	Offset-3 Stop Freq	15.5 MHz
	Offset-4 Stop Freq	17 MHz
	Offset-5 Stop Freq	40 MHz
	Offset-6 Stop Freq	47 MHz
	Offset-7 Stop Freq	70 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-3 Reference Level	Auto
	Offset-4 Reference Level	Auto
	Offset-5 Reference Level	Auto
	Offset-6 Reference Level	Auto
	Offset-7 Reference Level	Auto
	Offset-1 RBW	100 kHz
	Offset-2 RBW	100 kHz
	Offset-3 RBW	100 kHz
	Offset-4 RBW	100 kHz
	Offset-5 RBW	100 kHz
	Offset-6 RBW	100 kHz
	Offset-7 RBW	100 kHz

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
Microlink ETSI CS:28MHz Class:5B6B Freq Band: 17G - 30GHz	Offset-1 VBW	300 Hz
	Offset-2 VBW	300 Hz
	Offset-3 VBW	300 Hz
	Offset-4 VBW	300 Hz
	Offset-5 VBW	300 Hz
	Offset-6 VBW	300 Hz
	Offset-7 VBW	300 Hz
	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-3 Sweep Time	Auto
	Offset-4 Sweep Time	Auto
	Offset-5 Sweep Time	Auto
	Offset-6 Sweep Time	Auto
	Offset-7 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Fast
	Offset-2 Auto Sweep Time Select	Fast
	Offset-3 Auto Sweep Time Select	Fast
	Offset-4 Auto Sweep Time Select	Fast
	Offset-5 Auto Sweep Time Select	Fast
	Offset-6 Auto Sweep Time Select	Fast
	Offset-7 Auto Sweep Time Select	Fast
	Offset-1 Detection	Positive
	Offset-2 Detection	Positive
	Offset-3 Detection	Positive
	Offset-4 Detection	Positive
	Offset-5 Detection	Positive
	Offset-6 Detection	Positive
	Offset-7 Detection	Positive

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
Microlink ETSI CS:28MHz Class:5B6B Freq Band: 17G - 30GHz	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-3 Trace Point	1001
	Offset-4 Trace Point	1001
	Offset-5 Trace Point	1001
	Offset-6 Trace Point	1001
	Offset-7 Trace Point	1001
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	On
	Offset-5 On/Off	On
	Offset-6 On/Off	On
	Offset-7 On/Off	On
	Limit-1 REL Start Level	2.0 dB
	Limit-2 REL Start Level	2.0 dB
	Limit-3 REL Start Level	–10.0 dB
	Limit-4 REL Start Level	–32.0 dB
	Limit-5 REL Start Level	–36.0 dB
	Limit-6 REL Start Level	–45.0 dB
	Limit-7 REL Start Level	–50.0 dB
	Limit-1 REL Stop Level	2.0 dB
	Limit-2 REL Stop Level	–10.0 dB
	Limit-3 REL Stop Level	–32.0 dB
	Limit-4 REL Stop Level	–36.0 dB
	Limit-5 REL Stop Level	–45.0 dB
	Limit-6 REL Stop Level	–50.0 dB
	Limit-7 REL Stop Level	–50.0 dB
	Limit-1 Fail Logic	REL
	Limit-2 Fail Logic	REL
	Limit-3 Fail Logic	REL
	Limit-4 Fail Logic	REL
	Limit-5 Fail Logic	REL
	Limit-6 Fail Logic	REL
	Limit-7 Fail Logic	REL

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
Microlink ETSI CS:28MHz Class:5B6B Freq Band: above 30GHz	Frequency Span	140 MHz
	Limit Side	Both
	Reference Mode	Peak
	Channel BW	1 kHz
	RBW	100 kHz
	VBW	300 Hz
	Sweep Time	Auto
	Auto Sweep Time Select	Fast
	Detection	Positive
	Trace Point	1001
	Filter Type	Root Nyquist
	Roll-off Factor	0.22
	Offset-1 Start Freq	0 Hz
	Offset-2 Start Freq	12 MHz
	Offset-3 Start Freq	14.5 MHz
	Offset-4 Start Freq	15.5 MHz
	Offset-5 Start Freq	17 MHz
	Offset-6 Start Freq	40 MHz
	Offset-1 Stop Freq	12 MHz
	Offset-2 Stop Freq	14.5 MHz
	Offset-3 Stop Freq	15.5 MHz
	Offset-4 Stop Freq	17 MHz
	Offset-5 Stop Freq	40 MHz
	Offset-6 Stop Freq	70 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-3 Reference Level	Auto
	Offset-4 Reference Level	Auto
	Offset-5 Reference Level	Auto
	Offset-6 Reference Level	Auto
	Offset-1 RBW	100 kHz
	Offset-2 RBW	100 kHz
	Offset-3 RBW	100 kHz
	Offset-4 RBW	100 kHz
	Offset-5 RBW	100 kHz
	Offset-6 RBW	100 kHz

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
Microlink ETSI CS:28MHz Class:5B6B Freq Band: above 30GHz	Offset-1 VBW	300 Hz
	Offset-2 VBW	300 Hz
	Offset-3 VBW	300 Hz
	Offset-4 VBW	300 Hz
	Offset-5 VBW	300 Hz
	Offset-6 VBW	300 Hz
	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-3 Sweep Time	Auto
	Offset-4 Sweep Time	Auto
	Offset-5 Sweep Time	Auto
	Offset-6 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Fast
	Offset-2 Auto Sweep Time Select	Fast
	Offset-3 Auto Sweep Time Select	Fast
	Offset-4 Auto Sweep Time Select	Fast
	Offset-5 Auto Sweep Time Select	Fast
	Offset-6 Auto Sweep Time Select	Fast
	Offset-1 Detection	Positive
	Offset-2 Detection	Positive
	Offset-3 Detection	Positive
	Offset-4 Detection	Positive
	Offset-5 Detection	Positive
	Offset-6 Detection	Positive
	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-3 Trace Point	1001
	Offset-4 Trace Point	1001
	Offset-5 Trace Point	1001
	Offset-6 Trace Point	1001

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
Microlink ETSI CS:28MHz Class:5B6B Freq Band: above 30GHz	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	On
	Offset-5 On/Off	On
	Offset-6 On/Off	On
	Limit-1 REL Start Level	2.0 dB
	Limit-2 REL Start Level	2.0 dB
	Limit-3 REL Start Level	–10.0 dB
	Limit-4 REL Start Level	–32.0 dB
	Limit-5 REL Start Level	–36.0 dB
	Limit-6 REL Start Level	–45.0 dB
	Limit-1 REL Stop Level	2.0 dB
	Limit-2 REL Stop Level	–10.0 dB
	Limit-3 REL Stop Level	–32.0 dB
	Limit-4 REL Stop Level	–36.0 dB
	Limit-5 REL Stop Level	–45.0 dB
	Limit-6 REL Stop Level	–45.0 dB
	Limit-1 Fail Logic	REL
	Limit-2 Fail Logic	REL
	Limit-3 Fail Logic	REL
	Limit-4 Fail Logic	REL
	Limit-5 Fail Logic	REL
	Limit-6 Fail Logic	REL

Microlink ETSI CS: 56MHz

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
Microlink ETSI CS:56MHz Class:4L Freq Band:3G - 17GHz	Frequency Span	280 MHz
	Limit Side	Both
	Reference Mode	Peak
	Channel BW	1 kHz
	RBW	300 kHz
	VBW	300 Hz
	Sweep Time	Auto
	Auto Sweep Time Select	Fast
	Detection	Positive
	Trace Point	1001
	Filter Type	Root Nyquist
	Roll-off Factor	0.22
	Offset-1 Start Freq	0 Hz
	Offset-2 Start Freq	25.6 MHz
	Offset-3 Start Freq	34 MHz
	Offset-4 Start Freq	112 MHz
	Offset-1 Stop Freq	25.6 MHz
	Offset-2 Stop Freq	34 MHz
	Offset-3 Stop Freq	112 MHz
	Offset-4 Stop Freq	140 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-3 Reference Level	Auto
	Offset-4 Reference Level	Auto
	Offset-1 RBW	300 kHz
	Offset-2 RBW	300 kHz
	Offset-3 RBW	300 kHz
	Offset-4 RBW	300 kHz
	Offset-1 VBW	300 Hz
	Offset-2 VBW	300 Hz
	Offset-3 VBW	300 Hz
	Offset-4 VBW	300 Hz
	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-3 Sweep Time	Auto
	Offset-4 Sweep Time	Auto

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
Microlink ETSI CS:56MHz Class:4L Freq Band:3G - 17GHz	Offset-1 Auto Sweep Time Select	Fast
	Offset-2 Auto Sweep Time Select	Fast
	Offset-3 Auto Sweep Time Select	Fast
	Offset-4 Auto Sweep Time Select	Fast
	Offset-1 Detection	Positive
	Offset-2 Detection	Positive
	Offset-3 Detection	Positive
	Offset-4 Detection	Positive
	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-3 Trace Point	1001
	Offset-4 Trace Point	1001
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	On
	Limit-1 REL Start Level	2.0 dB
	Limit-2 REL Start Level	2.0 dB
	Limit-3 REL Start Level	–27.0 dB
	Limit-4 REL Start Level	–55.0 dB
	Limit-1 REL Stop Level	2.0 dB
	Limit-2 REL Stop Level	–27.0 dB
	Limit-3 REL Stop Level	–55.0 dB
	Limit-4 REL Stop Level	–55.0 dB
	Limit-1 Fail Logic	REL
	Limit-2 Fail Logic	REL
	Limit-3 Fail Logic	REL
	Limit-4 Fail Logic	REL

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
Microlink ETSI CS:56MHz Class:4L Freq Band:17G - 30GHz	Frequency Span	280 MHz
	Limit Side	Both
	Reference Mode	Peak
	Channel BW	1 kHz
	RBW	300 kHz
	VBW	300 Hz
	Sweep Time	Auto
	Auto Sweep Time Select	Fast
	Detection	Positive
	Trace Point	1001
	Filter Type	Root Nyquist
	Roll-off Factor	0.22
	Offset-1 Start Freq	0 Hz
	Offset-2 Start Freq	25.6 MHz
	Offset-3 Start Freq	34 MHz
	Offset-4 Start Freq	98 MHz
	Offset-1 Stop Freq	25.6 MHz
	Offset-2 Stop Freq	34 MHz
	Offset-3 Stop Freq	98 MHz
	Offset-4 Stop Freq	140 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-3 Reference Level	Auto
	Offset-4 Reference Level	Auto
	Offset-1 RBW	300 kHz
	Offset-2 RBW	300 kHz
	Offset-3 RBW	300 kHz
	Offset-4 RBW	300 kHz
	Offset-1 VBW	300 Hz
	Offset-2 VBW	300 Hz
	Offset-3 VBW	300 Hz
	Offset-4 VBW	300 Hz
	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-3 Sweep Time	Auto
	Offset-4 Sweep Time	Auto

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
Microlink ETSI CS:56MHz Class:4L Freq Band:17G - 30GHz	Offset-1 Auto Sweep Time Select	Fast
	Offset-2 Auto Sweep Time Select	Fast
	Offset-3 Auto Sweep Time Select	Fast
	Offset-4 Auto Sweep Time Select	Fast
	Offset-1 Detection	Positive
	Offset-2 Detection	Positive
	Offset-3 Detection	Positive
	Offset-4 Detection	Positive
	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-3 Trace Point	1001
	Offset-4 Trace Point	1001
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	On
	Limit-1 REL Start Level	2.0 dB
	Limit-2 REL Start Level	2.0 dB
	Limit-3 REL Start Level	–27.0 dB
	Limit-4 REL Start Level	–50.0 dB
	Limit-1 REL Stop Level	2.0 dB
	Limit-2 REL Stop Level	–27.0 dB
	Limit-3 REL Stop Level	–50.0 dB
	Limit-4 REL Stop Level	–50.0 dB
	Limit-1 Fail Logic	REL
	Limit-2 Fail Logic	REL
	Limit-3 Fail Logic	REL
	Limit-4 Fail Logic	REL

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
Microlink ETSI CS:56MHz Class:4L Freq Band:above 30GHz	Frequency Span	280 MHz
	Limit Side	Both
	Reference Mode	Peak
	Channel BW	1 kHz
	RBW	300 kHz
	VBW	300 Hz
	Sweep Time	Auto
	Auto Sweep Time Select	Fast
	Detection	Positive
	Trace Point	1001
	Filter Type	Root Nyquist
	Roll-off Factor	0.22
	Offset-1 Start Freq	0 Hz
	Offset-2 Start Freq	25.6 MHz
	Offset-3 Start Freq	34 MHz
	Offset-4 Start Freq	84 MHz
	Offset-1 Stop Freq	25.6 MHz
	Offset-2 Stop Freq	34 MHz
	Offset-3 Stop Freq	84 MHz
	Offset-4 Stop Freq	140 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-3 Reference Level	Auto
	Offset-4 Reference Level	Auto
	Offset-1 RBW	300 kHz
	Offset-2 RBW	300 kHz
	Offset-3 RBW	300 kHz
	Offset-4 RBW	300 kHz
	Offset-1 VBW	300 Hz
	Offset-2 VBW	300 Hz
	Offset-3 VBW	300 Hz
	Offset-4 VBW	300 Hz
	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-3 Sweep Time	Auto
	Offset-4 Sweep Time	Auto

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
Microlink ETSI CS:56MHz Class:4L Freq Band:above 30GHz	Offset-1 Auto Sweep Time Select	Fast
	Offset-2 Auto Sweep Time Select	Fast
	Offset-3 Auto Sweep Time Select	Fast
	Offset-4 Auto Sweep Time Select	Fast
	Offset-1 Detection	Positive
	Offset-2 Detection	Positive
	Offset-3 Detection	Positive
	Offset-4 Detection	Positive
	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-3 Trace Point	1001
	Offset-4 Trace Point	1001
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	On
	Limit-1 REL Start Level	2.0 dB
	Limit-2 REL Start Level	2.0 dB
	Limit-3 REL Start Level	–27.0 dB
	Limit-4 REL Start Level	–45.0 dB
	Limit-1 REL Stop Level	2.0 dB
	Limit-2 REL Stop Level	–27.0 dB
	Limit-3 REL Stop Level	–45.0 dB
	Limit-4 REL Stop Level	–45.0 dB
	Limit-1 Fail Logic	REL
	Limit-2 Fail Logic	REL
	Limit-3 Fail Logic	REL
	Limit-4 Fail Logic	REL

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
Microlink ETSI CS:56MHz Class:5A6A Freq Band:3G - 17GHz	Frequency Span	280 MHz
	Limit Side	Both
	Reference Mode	Peak
	Channel BW	1 kHz
	RBW	300 kHz
	VBW	300 Hz
	Sweep Time	Auto
	Auto Sweep Time Select	Fast
	Detection	Positive
	Trace Point	1001
	Filter Type	Root Nyquist
	Roll-off Factor	0.22
	Offset-1 Start Freq	0 Hz
	Offset-2 Start Freq	25 MHz
	Offset-3 Start Freq	30 MHz
	Offset-4 Start Freq	34 MHz
	Offset-5 Start Freq	40 MHz
	Offset-6 Start Freq	80 MHz
	Offset-7 Start Freq	108 MHz
	Offset-1 Stop Freq	25 MHz
	Offset-2 Stop Freq	30 MHz
	Offset-3 Stop Freq	34 MHz
	Offset-4 Stop Freq	40 MHz
	Offset-5 Stop Freq	80 MHz
	Offset-6 Stop Freq	108 MHz
	Offset-7 Stop Freq	140 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-3 Reference Level	Auto
	Offset-4 Reference Level	Auto
	Offset-5 Reference Level	Auto
	Offset-6 Reference Level	Auto
	Offset-7 Reference Level	Auto
	Offset-1 RBW	300 kHz
	Offset-2 RBW	300 kHz
	Offset-3 RBW	300 kHz
	Offset-4 RBW	300 kHz
	Offset-5 RBW	300 kHz
	Offset-6 RBW	300 kHz
	Offset-7 RBW	300 kHz

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
Microlink ETSI CS:56MHz Class:5A6A Freq Band:3G - 17GHz	Offset-1 VBW	300 Hz
	Offset-2 VBW	300 Hz
	Offset-3 VBW	300 Hz
	Offset-4 VBW	300 Hz
	Offset-5 VBW	300 Hz
	Offset-6 VBW	300 Hz
	Offset-7 VBW	300 Hz
	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-3 Sweep Time	Auto
	Offset-4 Sweep Time	Auto
	Offset-5 Sweep Time	Auto
	Offset-6 Sweep Time	Auto
	Offset-7 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Fast
	Offset-2 Auto Sweep Time Select	Fast
	Offset-3 Auto Sweep Time Select	Fast
	Offset-4 Auto Sweep Time Select	Fast
	Offset-5 Auto Sweep Time Select	Fast
	Offset-6 Auto Sweep Time Select	Fast
	Offset-7 Auto Sweep Time Select	Fast
	Offset-1 Detection	Positive
	Offset-2 Detection	Positive
	Offset-3 Detection	Positive
	Offset-4 Detection	Positive
	Offset-5 Detection	Positive
	Offset-6 Detection	Positive
	Offset-7 Detection	Positive

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
Microlink ETSI CS:56MHz Class:5A6A Freq Band:3G - 17GHz	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-3 Trace Point	1001
	Offset-4 Trace Point	1001
	Offset-5 Trace Point	1001
	Offset-6 Trace Point	1001
	Offset-7 Trace Point	1001
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	On
	Offset-5 On/Off	On
	Offset-6 On/Off	On
	Offset-7 On/Off	On
	Limit-1 REL Start Level	2.0 dB
	Limit-2 REL Start Level	2.0 dB
	Limit-3 REL Start Level	–10.0 dB
	Limit-4 REL Start Level	–32.0 dB
	Limit-5 REL Start Level	–35.0 dB
	Limit-6 REL Start Level	–45.0 dB
	Limit-7 REL Start Level	–55.0 dB
	Limit-1 REL Stop Level	2.0 dB
	Limit-2 REL Stop Level	–10.0 dB
	Limit-3 REL Stop Level	–32.0 dB
	Limit-4 REL Stop Level	–35.0 dB
	Limit-5 REL Stop Level	–45.0 dB
	Limit-6 REL Stop Level	–55.0 dB
	Limit-7 REL Stop Level	–55.0 dB
	Limit-1 Fail Logic	REL
	Limit-2 Fail Logic	REL
	Limit-3 Fail Logic	REL
	Limit-4 Fail Logic	REL
	Limit-5 Fail Logic	REL
	Limit-6 Fail Logic	REL
	Limit-7 Fail Logic	REL

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
Microlink ETSI CS:56MHz Class:5A - 6A Freq Band:17G - 30GHz	Frequency Span	280 MHz
	Limit Side	Both
	Reference Mode	Peak
	Channel BW	1 kHz
	RBW	300 kHz
	VBW	300 Hz
	Sweep Time	Auto
	Auto Sweep Time Select	Fast
	Detection	Positive
	Trace Point	1001
	Filter Type	Root Nyquist
	Roll-off Factor	0.22
	Offset-1 Start Freq	0 Hz
	Offset-2 Start Freq	25 MHz
	Offset-3 Start Freq	30 MHz
	Offset-4 Start Freq	34 MHz
	Offset-5 Start Freq	40 MHz
	Offset-6 Start Freq	80 MHz
	Offset-7 Start Freq	94 MHz
	Offset-1 Stop Freq	25 MHz
	Offset-2 Stop Freq	30 MHz
	Offset-3 Stop Freq	34 MHz
	Offset-4 Stop Freq	40 MHz
	Offset-5 Stop Freq	80 MHz
	Offset-6 Stop Freq	94 MHz
	Offset-7 Stop Freq	140 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-3 Reference Level	Auto
	Offset-4 Reference Level	Auto
	Offset-5 Reference Level	Auto
	Offset-6 Reference Level	Auto
	Offset-7 Reference Level	Auto
	Offset-1 RBW	300 kHz
	Offset-2 RBW	300 kHz
	Offset-3 RBW	300 kHz
	Offset-4 RBW	300 kHz
	Offset-5 RBW	300 kHz
	Offset-6 RBW	300 kHz
	Offset-7 RBW	300 kHz

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
Microlink ETSI CS:56MHz Class:5A - 6A Freq Band:17G - 30GHz	Offset-1 VBW	300 Hz
	Offset-2 VBW	300 Hz
	Offset-3 VBW	300 Hz
	Offset-4 VBW	300 Hz
	Offset-5 VBW	300 Hz
	Offset-6 VBW	300 Hz
	Offset-7 VBW	300 Hz
	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-3 Sweep Time	Auto
	Offset-4 Sweep Time	Auto
	Offset-5 Sweep Time	Auto
	Offset-6 Sweep Time	Auto
	Offset-7 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Fast
	Offset-2 Auto Sweep Time Select	Fast
	Offset-3 Auto Sweep Time Select	Fast
	Offset-4 Auto Sweep Time Select	Fast
	Offset-5 Auto Sweep Time Select	Fast
	Offset-6 Auto Sweep Time Select	Fast
	Offset-7 Auto Sweep Time Select	Fast
	Offset-1 Detection	Positive
	Offset-2 Detection	Positive
	Offset-3 Detection	Positive
	Offset-4 Detection	Positive
	Offset-5 Detection	Positive
	Offset-6 Detection	Positive
	Offset-7 Detection	Positive

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
Microlink ETSI CS:56MHz Class:5A - 6A Freq Band:17G - 30GHz	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-3 Trace Point	1001
	Offset-4 Trace Point	1001
	Offset-5 Trace Point	1001
	Offset-6 Trace Point	1001
	Offset-7 Trace Point	1001
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	On
	Offset-5 On/Off	On
	Offset-6 On/Off	On
	Offset-7 On/Off	On
	Limit-1 REL Start Level	2.0 dB
	Limit-2 REL Start Level	2.0 dB
	Limit-3 REL Start Level	–10.0 dB
	Limit-4 REL Start Level	–32.0 dB
	Limit-5 REL Start Level	–35.0 dB
	Limit-6 REL Start Level	–45.0 dB
	Limit-7 REL Start Level	–50.0 dB
	Limit-1 REL Stop Level	2.0 dB
	Limit-2 REL Stop Level	–10.0 dB
	Limit-3 REL Stop Level	–32.0 dB
	Limit-4 REL Stop Level	–35.0 dB
	Limit-5 REL Stop Level	–45.0 dB
	Limit-6 REL Stop Level	–50.0 dB
	Limit-7 REL Stop Level	–50.0 dB
	Limit-1 Fail Logic	REL
	Limit-2 Fail Logic	REL
	Limit-3 Fail Logic	REL
	Limit-4 Fail Logic	REL
	Limit-5 Fail Logic	REL
	Limit-6 Fail Logic	REL
	Limit-7 Fail Logic	REL

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
Microlink ETSI CS:56MHz Class:5A - 6A Freq Band:above 30GHz	Frequency Span	280 MHz
	Limit Side	Both
	Reference Mode	Peak
	Channel BW	1 kHz
	RBW	300 kHz
	VBW	300 Hz
	Sweep Time	Auto
	Auto Sweep Time Select	Fast
	Detection	Positive
	Trace Point	1001
	Filter Type	Root Nyquist
	Roll-off Factor	0.22
	Offset-1 Start Freq	0 Hz
	Offset-2 Start Freq	25 MHz
	Offset-3 Start Freq	30 MHz
	Offset-4 Start Freq	34 MHz
	Offset-5 Start Freq	40 MHz
	Offset-6 Start Freq	80 MHz
	Offset-1 Stop Freq	25 MHz
	Offset-2 Stop Freq	30 MHz
	Offset-3 Stop Freq	34 MHz
	Offset-4 Stop Freq	40 MHz
	Offset-5 Stop Freq	80 MHz
	Offset-6 Stop Freq	140 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-3 Reference Level	Auto
	Offset-4 Reference Level	Auto
	Offset-5 Reference Level	Auto
	Offset-6 Reference Level	Auto
	Offset-1 RBW	300 kHz
	Offset-2 RBW	300 kHz
	Offset-3 RBW	300 kHz
	Offset-4 RBW	300 kHz
	Offset-5 RBW	300 kHz
	Offset-6 RBW	300 kHz

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
Microlink ETSI CS:56MHz Class:5A - 6A Freq Band:above 30GHz	Offset-1 VBW	300 Hz
	Offset-2 VBW	300 Hz
	Offset-3 VBW	300 Hz
	Offset-4 VBW	300 Hz
	Offset-5 VBW	300 Hz
	Offset-6 VBW	300 Hz
	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-3 Sweep Time	Auto
	Offset-4 Sweep Time	Auto
	Offset-5 Sweep Time	Auto
	Offset-6 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Fast
	Offset-2 Auto Sweep Time Select	Fast
	Offset-3 Auto Sweep Time Select	Fast
	Offset-4 Auto Sweep Time Select	Fast
	Offset-5 Auto Sweep Time Select	Fast
	Offset-6 Auto Sweep Time Select	Fast
	Offset-1 Detection	Positive
	Offset-2 Detection	Positive
	Offset-3 Detection	Positive
	Offset-4 Detection	Positive
	Offset-5 Detection	Positive
	Offset-6 Detection	Positive
	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-3 Trace Point	1001
	Offset-4 Trace Point	1001
	Offset-5 Trace Point	1001
	Offset-6 Trace Point	1001

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
Microlink ETSI CS:56MHz Class:5A - 6A Freq Band:above 30GHz	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	On
	Offset-5 On/Off	On
	Offset-6 On/Off	On
	Limit-1 REL Start Level	2.0 dB
	Limit-2 REL Start Level	2.0 dB
	Limit-3 REL Start Level	–10.0 dB
	Limit-4 REL Start Level	–32.0 dB
	Limit-5 REL Start Level	–35.0 dB
	Limit-6 REL Start Level	–45.0 dB
	Limit-1 REL Stop Level	2.0 dB
	Limit-2 REL Stop Level	–10.0 dB
	Limit-3 REL Stop Level	–32.0 dB
	Limit-4 REL Stop Level	–35.0 dB
	Limit-5 REL Stop Level	–45.0 dB
	Limit-6 REL Stop Level	–45.0 dB
	Limit-1 Fail Logic	REL
	Limit-2 Fail Logic	REL
	Limit-3 Fail Logic	REL
	Limit-4 Fail Logic	REL
	Limit-5 Fail Logic	REL
	Limit-6 Fail Logic	REL

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
Microlink ETSI CS:56MHz Class:5B - 6B Freq Band:3G - 17GHz	Frequency Span	280 MHz
	Limit Side	Both
	Reference Mode	Peak
	Channel BW	1 kHz
	RBW	300 kHz
	VBW	300 Hz
	Sweep Time	Auto
	Auto Sweep Time Select	Fast
	Detection	Positive
	Trace Point	1001
	Filter Type	Root Nyquist
	Roll-off Factor	0.22
	Offset-1 Start Freq	0 Hz
	Offset-2 Start Freq	24 MHz
	Offset-3 Start Freq	29 MHz
	Offset-4 Start Freq	31 MHz
	Offset-5 Start Freq	34 MHz
	Offset-6 Start Freq	80 MHz
	Offset-7 Start Freq	108 MHz
	Offset-1 Stop Freq	24 MHz
	Offset-2 Stop Freq	29 MHz
	Offset-3 Stop Freq	31 MHz
	Offset-4 Stop Freq	34 MHz
	Offset-5 Stop Freq	80 MHz
	Offset-6 Stop Freq	108 MHz
	Offset-7 Stop Freq	140 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-3 Reference Level	Auto
	Offset-4 Reference Level	Auto
	Offset-5 Reference Level	Auto
	Offset-6 Reference Level	Auto
	Offset-7 Reference Level	Auto
	Offset-1 RBW	300 kHz
	Offset-2 RBW	300 kHz
	Offset-3 RBW	300 kHz
	Offset-4 RBW	300 kHz
	Offset-5 RBW	300 kHz
	Offset-6 RBW	300 kHz
	Offset-7 RBW	300 kHz

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
Microlink ETSI CS:56MHz Class:5B - 6B Freq Band:3G - 17GHz	Offset-1 VBW	300 Hz
	Offset-2 VBW	300 Hz
	Offset-3 VBW	300 Hz
	Offset-4 VBW	300 Hz
	Offset-5 VBW	300 Hz
	Offset-6 VBW	300 Hz
	Offset-7 VBW	300 Hz
	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-3 Sweep Time	Auto
	Offset-4 Sweep Time	Auto
	Offset-5 Sweep Time	Auto
	Offset-6 Sweep Time	Auto
	Offset-7 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Fast
	Offset-2 Auto Sweep Time Select	Fast
	Offset-3 Auto Sweep Time Select	Fast
	Offset-4 Auto Sweep Time Select	Fast
	Offset-5 Auto Sweep Time Select	Fast
	Offset-6 Auto Sweep Time Select	Fast
	Offset-7 Auto Sweep Time Select	Fast
	Offset-1 Detection	Positive
	Offset-2 Detection	Positive
	Offset-3 Detection	Positive
	Offset-4 Detection	Positive
	Offset-5 Detection	Positive
	Offset-6 Detection	Positive
	Offset-7 Detection	Positive

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
Microlink ETSI CS:56MHz Class:5B - 6B Freq Band:3G - 17GHz	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-3 Trace Point	1001
	Offset-4 Trace Point	1001
	Offset-5 Trace Point	1001
	Offset-6 Trace Point	1001
	Offset-7 Trace Point	1001
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	On
	Offset-5 On/Off	On
	Offset-6 On/Off	On
	Offset-7 On/Off	On
	Limit-1 REL Start Level	2.0 dB
	Limit-2 REL Start Level	2.0 dB
	Limit-3 REL Start Level	–10.0 dB
	Limit-4 REL Start Level	–32.0 dB
	Limit-5 REL Start Level	–36.0 dB
	Limit-6 REL Start Level	–45.0 dB
	Limit-7 REL Start Level	–55.0 dB
	Limit-1 REL Stop Level	2.0 dB
	Limit-2 REL Stop Level	–10.0 dB
	Limit-3 REL Stop Level	–32.0 dB
	Limit-4 REL Stop Level	–36.0 dB
	Limit-5 REL Stop Level	–45.0 dB
	Limit-6 REL Stop Level	–55.0 dB
	Limit-7 REL Stop Level	–55.0 dB
	Limit-1 Fail Logic	REL
	Limit-2 Fail Logic	REL
	Limit-3 Fail Logic	REL
	Limit-4 Fail Logic	REL
	Limit-5 Fail Logic	REL
	Limit-6 Fail Logic	REL
	Limit-7 Fail Logic	REL

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
Microlink ETSI CS:56MHz Class:5B - 6B Freq Band:17G - 30GHz	Frequency Span	280 MHz
	Limit Side	Both
	Reference Mode	Peak
	Channel BW	1 kHz
	RBW	300 kHz
	VBW	300 Hz
	Sweep Time	Auto
	Auto Sweep Time Select	Fast
	Detection	Positive
	Trace Point	1001
	Filter Type	Root Nyquist
	Roll-off Factor	0.22
	Offset-1 Start Freq	0 Hz
	Offset-2 Start Freq	24 MHz
	Offset-3 Start Freq	29 MHz
	Offset-4 Start Freq	31 MHz
	Offset-5 Start Freq	34 MHz
	Offset-6 Start Freq	80 MHz
	Offset-7 Start Freq	94 MHz
	Offset-1 Stop Freq	24 MHz
	Offset-2 Stop Freq	29 MHz
	Offset-3 Stop Freq	31 MHz
	Offset-4 Stop Freq	34 MHz
	Offset-5 Stop Freq	80 MHz
	Offset-6 Stop Freq	94 MHz
	Offset-7 Stop Freq	140 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-3 Reference Level	Auto
	Offset-4 Reference Level	Auto
	Offset-5 Reference Level	Auto
	Offset-6 Reference Level	Auto
	Offset-7 Reference Level	Auto
	Offset-1 RBW	300 kHz
	Offset-2 RBW	300 kHz
	Offset-3 RBW	300 kHz
	Offset-4 RBW	300 kHz
	Offset-5 RBW	300 kHz
	Offset-6 RBW	300 kHz
	Offset-7 RBW	300 kHz

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
Microlink ETSI CS:56MHz Class:5B - 6B Freq Band:17G - 30GHz	Offset-1 VBW	300 Hz
	Offset-2 VBW	300 Hz
	Offset-3 VBW	300 Hz
	Offset-4 VBW	300 Hz
	Offset-5 VBW	300 Hz
	Offset-6 VBW	300 Hz
	Offset-7 VBW	300 Hz
	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-3 Sweep Time	Auto
	Offset-4 Sweep Time	Auto
	Offset-5 Sweep Time	Auto
	Offset-6 Sweep Time	Auto
	Offset-7 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Fast
	Offset-2 Auto Sweep Time Select	Fast
	Offset-3 Auto Sweep Time Select	Fast
	Offset-4 Auto Sweep Time Select	Fast
	Offset-5 Auto Sweep Time Select	Fast
	Offset-6 Auto Sweep Time Select	Fast
	Offset-7 Auto Sweep Time Select	Fast
	Offset-1 Detection	Positive
	Offset-2 Detection	Positive
	Offset-3 Detection	Positive
	Offset-4 Detection	Positive
	Offset-5 Detection	Positive
	Offset-6 Detection	Positive
	Offset-7 Detection	Positive

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
Microlink ETSI CS:56MHz Class:5B - 6B Freq Band:17G - 30GHz	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-3 Trace Point	1001
	Offset-4 Trace Point	1001
	Offset-5 Trace Point	1001
	Offset-6 Trace Point	1001
	Offset-7 Trace Point	1001
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	On
	Offset-5 On/Off	On
	Offset-6 On/Off	On
	Offset-7 On/Off	On
	Limit-1 REL Start Level	2.0 dB
	Limit-2 REL Start Level	2.0 dB
	Limit-3 REL Start Level	–10.0 dB
	Limit-4 REL Start Level	–32.0 dB
	Limit-5 REL Start Level	–36.0 dB
	Limit-6 REL Start Level	–45.0 dB
	Limit-7 REL Start Level	–50.0 dB
	Limit-1 REL Stop Level	2.0 dB
	Limit-2 REL Stop Level	–10.0 dB
	Limit-3 REL Stop Level	–32.0 dB
	Limit-4 REL Stop Level	–36.0 dB
	Limit-5 REL Stop Level	–45.0 dB
	Limit-6 REL Stop Level	–50.0 dB
	Limit-7 REL Stop Level	–50.0 dB
	Limit-1 Fail Logic	REL
	Limit-2 Fail Logic	REL
	Limit-3 Fail Logic	REL
	Limit-4 Fail Logic	REL
	Limit-5 Fail Logic	REL
	Limit-6 Fail Logic	REL
	Limit-7 Fail Logic	REL

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
Microlink ETSI CS:56MHz Class:5B - 6B Freq Band:above 30GHz	Frequency Span	280 MHz
	Limit Side	Both
	Reference Mode	Peak
	Channel BW	1 kHz
	RBW	300 kHz
	VBW	300 Hz
	Sweep Time	Auto
	Auto Sweep Time Select	Fast
	Detection	Positive
	Trace Point	1001
	Filter Type	Root Nyquist
	Roll-off Factor	0.22
	Offset-1 Start Freq	0 Hz
	Offset-2 Start Freq	24 MHz
	Offset-3 Start Freq	29 MHz
	Offset-4 Start Freq	31 MHz
	Offset-5 Start Freq	34 MHz
	Offset-6 Start Freq	80 MHz
	Offset-1 Stop Freq	24 MHz
	Offset-2 Stop Freq	29 MHz
	Offset-3 Stop Freq	31 MHz
	Offset-4 Stop Freq	34 MHz
	Offset-5 Stop Freq	80 MHz
	Offset-6 Stop Freq	140 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-3 Reference Level	Auto
	Offset-4 Reference Level	Auto
	Offset-5 Reference Level	Auto
	Offset-6 Reference Level	Auto
	Offset-1 RBW	300 kHz
	Offset-2 RBW	300 kHz
	Offset-3 RBW	300 kHz
	Offset-4 RBW	300 kHz
	Offset-5 RBW	300 kHz
	Offset-6 RBW	300 kHz

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
Microlink ETSI CS:56MHz Class:5B - 6B Freq Band:above 30GHz	Offset-1 VBW	300 Hz
	Offset-2 VBW	300 Hz
	Offset-3 VBW	300 Hz
	Offset-4 VBW	300 Hz
	Offset-5 VBW	300 Hz
	Offset-6 VBW	300 Hz
	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-3 Sweep Time	Auto
	Offset-4 Sweep Time	Auto
	Offset-5 Sweep Time	Auto
	Offset-6 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Fast
	Offset-2 Auto Sweep Time Select	Fast
	Offset-3 Auto Sweep Time Select	Fast
	Offset-4 Auto Sweep Time Select	Fast
	Offset-5 Auto Sweep Time Select	Fast
	Offset-6 Auto Sweep Time Select	Fast
	Offset-1 Detection	Positive
	Offset-2 Detection	Positive
	Offset-3 Detection	Positive
	Offset-4 Detection	Positive
	Offset-5 Detection	Positive
	Offset-6 Detection	Positive
	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-3 Trace Point	1001
	Offset-4 Trace Point	1001
	Offset-5 Trace Point	1001
	Offset-6 Trace Point	1001

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
Microlink ETSI CS:56MHz Class:5B - 6B Freq Band:above 30GHz	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	On
	Offset-5 On/Off	On
	Offset-6 On/Off	On
	Limit-1 REL Start Level	2.0 dB
	Limit-2 REL Start Level	2.0 dB
	Limit-3 REL Start Level	–10.0 dB
	Limit-4 REL Start Level	–32.0 dB
	Limit-5 REL Start Level	–36.0 dB
	Limit-6 REL Start Level	–45.0 dB
	Limit-1 REL Stop Level	2.0 dB
	Limit-2 REL Stop Level	–10.0 dB
	Limit-3 REL Stop Level	–32.0 dB
	Limit-4 REL Stop Level	–36.0 dB
	Limit-5 REL Stop Level	–45.0 dB
	Limit-6 REL Stop Level	–45.0 dB
	Limit-1 Fail Logic	REL
	Limit-2 Fail Logic	REL
	Limit-3 Fail Logic	REL
	Limit-4 Fail Logic	REL
	Limit-5 Fail Logic	REL
	Limit-6 Fail Logic	REL

TELEC-T403

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
TELEC-T403 ≤18MHz 5180MHz-5240MHz Lower (WLAN)	Limit Side	Lower
	Reference Mode	Channel
	Channel BW	20 MHz
	RBW	1 MHz
	Sweep Time	Auto
	Auto Sweep Time Select	Fast
	Detection	Positive
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	90 MHz
	Offset-2 Start Freq	98 MHz
	Offset-1 Stop Freq	98 MHz
	Offset-2 Stop Freq	100 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-1 RBW	1 MHz
	Offset-2 RBW	1 MHz
	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Fast
	Offset-2 Auto Sweep Time Select	Fast
	Offset-1 Detection	Positive
	Offset-2 Detection	Positive
	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	Off
	Limit-1 ABS1 Start Level	–18.24 dB
	Limit-2 ABS1 Start Level	–26.02 dB
	Limit-1 ABS1 Stop Level	–18.24 dB
	Limit-2 ABS1 Stop Level	–26.02 dB
	Limit-1 Fail Logic	ABS1
	Limit-2 Fail Logic	ABS1

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
TELEC-T403 ≤18MHz 5180MHz-5240MHz Upper (WLAN)	Limit Side	Upper
	Reference Mode	Channel
	Channel BW	20 MHz
	RBW	1 MHz
	Sweep Time	Auto
	Auto Sweep Time Select	Fast
	Detection	Positive
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	10 MHz
	Offset-2 Start Freq	11 MHz
	Offset-3 Start Freq	20 MHz
	Offset-4 Start Freq	26.7 MHz
	Offset-1 Stop Freq	11 MHz
	Offset-2 Stop Freq	20 MHz
	Offset-3 Stop Freq	26.7 MHz
	Offset-4 Stop Freq	120 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-3 Reference Level	Auto
	Offset-4 Reference Level	Auto
	Offset-1 RBW	1 MHz
	Offset-2 RBW	1 MHz
	Offset-3 RBW	1 MHz
	Offset-4 RBW	1 MHz
	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-3 Sweep Time	Auto
	Offset-4 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Fast
	Offset-2 Auto Sweep Time Select	Fast
	Offset-3 Auto Sweep Time Select	Fast
	Offset-4 Auto Sweep Time Select	Fast
	Offset-1 Detection	Positive
	Offset-2 Detection	Positive
	Offset-3 Detection	Positive
	Offset-4 Detection	Positive

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
TELEC-T403 ≤18MHz 5180MHz-5240MHz Upper (WLAN)	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-3 Trace Point	1001
	Offset-4 Trace Point	1001
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto
	Offset-3 Integrate BW	Auto
	Offset-4 Integrate BW	Auto
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	On
	Offset-5 On/Off	Off
	Limit-1 ABS1 Start Level	0.0 dB
	Limit-2 ABS1 Start Level	–10.0 dB
	Limit-3 ABS1 Start Level	–18.01 dB
	Limit-4 ABS1 Start Level	–26.02 dB
	Limit-1 ABS1 Stop Level	–10.0 dB
	Limit-2 ABS1 Stop Level	–18.01 dB
	Limit-3 ABS1 Stop Level	–26.02 dB
	Limit-4 ABS1 Stop Level	–26.02 dB
	Limit-1 Fail Logic	ABS1
	Limit-2 Fail Logic	ABS1
	Limit-3 Fail Logic	ABS1
	Limit-4 Fail Logic	ABS1

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
TELEC-T403 ≤18MHz 5260MHz-5320MHz Lower (WLAN)	Limit Side	Lower
	Reference Mode	Channel
	Channel BW	20 MHz
	RBW	1 MHz
	Sweep Time	Auto
	Auto Sweep Time Select	Fast
	Detection	Positive
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	10 MHz
	Offset-2 Start Freq	11 MHz
	Offset-3 Start Freq	20 MHz
	Offset-4 Start Freq	26.7 MHz
	Offset-1 Stop Freq	11 MHz
	Offset-2 Stop Freq	20 MHz
	Offset-3 Stop Freq	26.7 MHz
	Offset-4 Stop Freq	120 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-3 Reference Level	Auto
	Offset-4 Reference Level	Auto
	Offset-1 RBW	1 MHz
	Offset-2 RBW	1 MHz
	Offset-3 RBW	1 MHz
	Offset-4 RBW	1 MHz
	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-3 Sweep Time	Auto
	Offset-4 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Fast
	Offset-2 Auto Sweep Time Select	Fast
	Offset-3 Auto Sweep Time Select	Fast
	Offset-4 Auto Sweep Time Select	Fast
	Offset-1 Detection	Positive
	Offset-2 Detection	Positive
	Offset-3 Detection	Positive
	Offset-4 Detection	Positive

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
TELEC-T403 ≤18MHz 5260MHz-5320MHz Lower (WLAN)	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-3 Trace Point	1001
	Offset-4 Trace Point	1001
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto
	Offset-3 Integrate BW	Auto
	Offset-4 Integrate BW	Auto
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	On
	Offset-5 On/Off	Off
	Limit-1 ABS1 Start Level	0.0 dB
	Limit-2 ABS1 Start Level	–10.0 dB
	Limit-3 ABS1 Start Level	–18.01 dB
	Limit-4 ABS1 Start Level	–26.02 dB
	Limit-1 ABS1 Stop Level	–10.0 dB
	Limit-2 ABS1 Stop Level	–18.01 dB
	Limit-3 ABS1 Stop Level	–26.02 dB
	Limit-4 ABS1 Stop Level	–26.02 dB
	Limit-1 Fail Logic	ABS1
	Limit-2 Fail Logic	ABS1
	Limit-3 Fail Logic	ABS1
	Limit-4 Fail Logic	ABS1

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
TELEC-T403 ≤18MHz 5260MHz-5320MHz Upper (WLAN)	Limit Side	Upper
	Reference Mode	Channel
	Channel BW	20 MHz
	RBW	1 MHz
	Sweep Time	Auto
	Auto Sweep Time Select	Fast
	Detection	Positive
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	90 MHz
	Offset-1 Stop Freq	100 MHz
	Offset-1 Reference Level	Auto
	Offset-1 RBW	1 MHz
	Offset-1 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Fast
	Offset-1 Detection	Positive
	Offset-1 Trace Point	1001
	Offset-1 Integrate BW	Auto
	Offset-1 On/Off	On
	Offset-2 On/Off	Off
	Limit-1 ABS1 Start Level	–26.02 dB
	Limit-1 ABS1 Stop Level	–26.02 dB
	Limit-1 Fail Logic	ABS1

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
TELEC-T403 18MHz < , ≤19MHz 5180MHz-5240MHz Lower (WLAN)	Limit Side	Lower
	Reference Mode	Channel
	Channel BW	20 MHz
	RBW	1 MHz
	Sweep Time	Auto
	Auto Sweep Time Select	Fast
	Detection	Positive
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	30 MHz
	Offset-2 Start Freq	38 MHz
	Offset-1 Stop Freq	38 MHz
	Offset-2 Stop Freq	45 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-1 RBW	1 MHz
	Offset-2 RBW	1 MHz
	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Fast
	Offset-2 Auto Sweep Time Select	Fast
	Offset-1 Detection	Positive
	Offset-2 Detection	Positive
	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	Off
	Limit-1 ABS1 Start Level	–18.24 dB
	Limit-2 ABS1 Start Level	–26.02 dB
	Limit-1 ABS1 Stop Level	–18.24 dB
	Limit-2 ABS1 Stop Level	–26.02 dB
	Limit-1 Fail Logic	ABS1
	Limit-2 Fail Logic	ABS1

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
TELEC-T403 18MHz < , ≤19MHz 5180MHz-5240MHz Upper (WLAN)	Limit Side	Upper
	Reference Mode	Channel
	Channel BW	20 MHz
	RBW	1 MHz
	Sweep Time	Auto
	Auto Sweep Time Select	Fast
	Detection	Positive
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	10 MHz
	Offset-2 Start Freq	11 MHz
	Offset-3 Start Freq	20 MHz
	Offset-4 Start Freq	26.7 MHz
	Offset-1 Stop Freq	11 MHz
	Offset-2 Stop Freq	20 MHz
	Offset-3 Stop Freq	26.7 MHz
	Offset-4 Stop Freq	125 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-3 Reference Level	Auto
	Offset-4 Reference Level	Auto
	Offset-1 RBW	1 MHz
	Offset-2 RBW	1 MHz
	Offset-3 RBW	1 MHz
	Offset-4 RBW	1 MHz
	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-3 Sweep Time	Auto
	Offset-4 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Fast
	Offset-2 Auto Sweep Time Select	Fast
	Offset-3 Auto Sweep Time Select	Fast
	Offset-4 Auto Sweep Time Select	Fast
	Offset-1 Detection	Positive
	Offset-2 Detection	Positive
	Offset-3 Detection	Positive
	Offset-4 Detection	Positive

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
TELEC-T403 18MHz < , ≤19MHz 5180MHz-5240MHz Upper (WLAN)	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-3 Trace Point	1001
	Offset-4 Trace Point	1001
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto
	Offset-3 Integrate BW	Auto
	Offset-4 Integrate BW	Auto
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	On
	Offset-5 On/Off	Off
	Limit-1 ABS1 Start Level	0.0 dB
	Limit-2 ABS1 Start Level	–10.0 dB
	Limit-3 ABS1 Start Level	–18.01 dB
	Limit-4 ABS1 Start Level	–26.02 dB
	Limit-1 ABS1 Stop Level	–10.0 dB
	Limit-2 ABS1 Stop Level	–18.01 dB
	Limit-3 ABS1 Stop Level	–26.02 dB
	Limit-4 ABS1 Stop Level	–26.02 dB
	Limit-1 Fail Logic	ABS1
	Limit-2 Fail Logic	ABS1
	Limit-3 Fail Logic	ABS1
	Limit-4 Fail Logic	ABS1

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
TELEC-T403 18MHz < , ≤19MHz 5260MHz-5320MHz Lower (WLAN)	Limit Side	Lower
	Reference Mode	Channel
	Channel BW	20 MHz
	RBW	1 MHz
	Sweep Time	Auto
	Auto Sweep Time Select	Fast
	Detection	Positive
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	10 MHz
	Offset-2 Start Freq	11 MHz
	Offset-3 Start Freq	20 MHz
	Offset-4 Start Freq	26.7 MHz
	Offset-1 Stop Freq	11 MHz
	Offset-2 Stop Freq	20 MHz
	Offset-3 Stop Freq	26.7 MHz
	Offset-4 Stop Freq	125 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-3 Reference Level	Auto
	Offset-4 Reference Level	Auto
	Offset-1 RBW	1 MHz
	Offset-2 RBW	1 MHz
	Offset-3 RBW	1 MHz
	Offset-4 RBW	1 MHz
	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-3 Sweep Time	Auto
	Offset-4 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Fast
	Offset-2 Auto Sweep Time Select	Fast
	Offset-3 Auto Sweep Time Select	Fast
	Offset-4 Auto Sweep Time Select	Fast
	Offset-1 Detection	Positive
	Offset-2 Detection	Positive
	Offset-3 Detection	Positive
	Offset-4 Detection	Positive

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
TELEC-T403 18MHz < , ≤19MHz 5260MHz-5320MHz Lower (WLAN)	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-3 Trace Point	1001
	Offset-4 Trace Point	1001
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto
	Offset-3 Integrate BW	Auto
	Offset-4 Integrate BW	Auto
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	On
	Offset-5 On/Off	Off
	Limit-1 ABS1 Start Level	0.0 dB
	Limit-2 ABS1 Start Level	–10.0 dB
	Limit-3 ABS1 Start Level	–18.01 dB
	Limit-4 ABS1 Start Level	–26.02 dB
	Limit-1 ABS1 Stop Level	–10.0 dB
	Limit-2 ABS1 Stop Level	–18.01 dB
	Limit-3 ABS1 Stop Level	–26.02 dB
	Limit-4 ABS1 Stop Level	–26.02 dB
	Limit-1 Fail Logic	ABS1
	Limit-2 Fail Logic	ABS1
	Limit-3 Fail Logic	ABS1
	Limit-4 Fail Logic	ABS1

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
TELEC-T403 18MHz < , ≤19MHz 5260MHz-5320MHz Upper (WLAN)	Limit Side	Upper
	Reference Mode	Channel
	Channel BW	20 MHz
	RBW	1 MHz
	Sweep Time	Auto
	Auto Sweep Time Select	Fast
	Detection	Positive
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	30 MHz
	Offset-1 Stop Freq	45 MHz
	Offset-1 Reference Level	Auto
	Offset-1 RBW	1 MHz
	Offset-1 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Fast
	Offset-1 Detection	Positive
	Offset-1 Trace Point	1001
	Offset-1 Integrate BW	Auto
	Offset-1 On/Off	On
	Offset-2 On/Off	Off
	Limit-1 ABS1 Start Level	–26.02 dB
	Limit-1 ABS1 Stop Level	–26.02 dB
	Limit-1 Fail Logic	ABS1

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
TELEC-T403 5190MHz-5230MHz Lower (WLAN)	Limit Side	Lower
	Reference Mode	Channel
	Channel BW	40 MHz
	RBW	1 MHz
	Sweep Time	Auto
	Auto Sweep Time Select	Fast
	Detection	Positive
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	40 MHz
	Offset-2 Start Freq	48.4 MHz
	Offset-1 Stop Freq	48.4 MHz
	Offset-2 Stop Freq	90 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-1 RBW	1 MHz
	Offset-2 RBW	1 MHz
	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Fast
	Offset-2 Auto Sweep Time Select	Fast
	Offset-1 Detection	Positive
	Offset-2 Detection	Positive
	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	Off
	Limit-1 ABS1 Start Level	–18.24 dB
	Limit-2 ABS1 Start Level	–26.02 dB
	Limit-1 ABS1 Stop Level	–18.24 dB
	Limit-2 ABS1 Stop Level	–26.02 dB
	Limit-1 Fail Logic	ABS1
	Limit-2 Fail Logic	ABS1

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
TELEC-T403 5190MHz-5230MHz Upper (WLAN)	Limit Side	Upper
	Reference Mode	Channel
	Channel BW	40 MHz
	RBW	1 MHz
	Sweep Time	Auto
	Auto Sweep Time Select	Fast
	Detection	Positive
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	20 MHz
	Offset-2 Start Freq	21 MHz
	Offset-3 Start Freq	40 MHz
	Offset-4 Start Freq	48.4 MHz
	Offset-1 Stop Freq	21 MHz
	Offset-2 Stop Freq	40 MHz
	Offset-3 Stop Freq	48.4 MHz
	Offset-4 Stop Freq	170 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-3 Reference Level	Auto
	Offset-4 Reference Level	Auto
	Offset-1 RBW	1 MHz
	Offset-2 RBW	1 MHz
	Offset-3 RBW	1 MHz
	Offset-4 RBW	1 MHz
	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-3 Sweep Time	Auto
	Offset-4 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Fast
	Offset-2 Auto Sweep Time Select	Fast
	Offset-3 Auto Sweep Time Select	Fast
	Offset-4 Auto Sweep Time Select	Fast
	Offset-1 Detection	Positive
	Offset-2 Detection	Positive
	Offset-3 Detection	Positive
	Offset-4 Detection	Positive

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
TELEC-T403 5190MHz-5230MHz Upper (WLAN)	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-3 Trace Point	1001
	Offset-4 Trace Point	1001
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto
	Offset-3 Integrate BW	Auto
	Offset-4 Integrate BW	Auto
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	On
	Offset-5 On/Off	Off
	Limit-1 ABS1 Start Level	–3.01 dB
	Limit-2 ABS1 Start Level	–13.01 dB
	Limit-3 ABS1 Start Level	–21.02 dB
	Limit-4 ABS1 Start Level	–26.02 dB
	Limit-1 ABS1 Stop Level	–13.01 dB
	Limit-2 ABS1 Stop Level	–21.02 dB
	Limit-3 ABS1 Stop Level	–26.02 dB
	Limit-4 ABS1 Stop Level	–26.02 dB
	Limit-1 Fail Logic	ABS1
	Limit-2 Fail Logic	ABS1
	Limit-3 Fail Logic	ABS1
	Limit-4 Fail Logic	ABS1

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
TELEC-T403 5270MHz-5310MHz Lower (WLAN)	Limit Side	Lower
	Reference Mode	Channel
	Channel BW	40 MHz
	RBW	1 MHz
	Sweep Time	Auto
	Auto Sweep Time Select	Fast
	Detection	Positive
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	20 MHz
	Offset-2 Start Freq	21 MHz
	Offset-3 Start Freq	40 MHz
	Offset-4 Start Freq	48.4 MHz
	Offset-5 Start Freq	60.0 MHz
	Offset-1 Stop Freq	21 MHz
	Offset-2 Stop Freq	40 MHz
	Offset-3 Stop Freq	48.4 MHz
	Offset-4 Stop Freq	60 MHz
	Offset-5 Stop Freq	170 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-3 Reference Level	Auto
	Offset-4 Reference Level	Auto
	Offset-5 Reference Level	Auto
	Offset-1 RBW	1 MHz
	Offset-2 RBW	1 MHz
	Offset-3 RBW	1 MHz
	Offset-4 RBW	1 MHz
	Offset-5 RBW	1 MHz
	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-3 Sweep Time	Auto
	Offset-4 Sweep Time	Auto
	Offset-5 Sweep Time	Auto

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
TELEC-T403 5270MHz-5310MHz Lower (WLAN)	Offset-1 Auto Sweep Time Select	Fast
	Offset-2 Auto Sweep Time Select	Fast
	Offset-3 Auto Sweep Time Select	Fast
	Offset-4 Auto Sweep Time Select	Fast
	Offset-5 Auto Sweep Time Select	Fast
	Offset-1 Detection	Positive
	Offset-2 Detection	Positive
	Offset-3 Detection	Positive
	Offset-4 Detection	Positive
	Offset-5 Detection	Positive
	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-3 Trace Point	1001
	Offset-4 Trace Point	1001
	Offset-5 Trace Point	1001
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto
	Offset-3 Integrate BW	Auto
	Offset-4 Integrate BW	Auto
	Offset-5 Integrate BW	Auto
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	On
	Offset-5 On/Off	On
	Offset-6 On/Off	Off

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
TELEC-T403 5270MHz-5310MHz Lower (WLAN)	Limit-1 ABS1 Start Level	–3.01 dB
	Limit-2 ABS1 Start Level	–13.01 dB
	Limit-3 ABS1 Start Level	–21.02 dB
	Limit-4 ABS1 Start Level	–26.02 dB
	Limit-5 ABS1 Start Level	–26.02 dB
	Limit-1 ABS1 Stop Level	–13.01 dB
	Limit-2 ABS1 Stop Level	–21.02 dB
	Limit-3 ABS1 Stop Level	–26.02 dB
	Limit-4 ABS1 Stop Level	–26.02 dB
	Limit-5 ABS1 Stop Level	–26.02 dB
	Limit-1 Fail Logic	ABS1
	Limit-2 Fail Logic	ABS1
	Limit-3 Fail Logic	ABS1
	Limit-4 Fail Logic	ABS1
	Limit-5 Fail Logic	ABS1

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
TELEC-T403 5270MHz-5310MHz Upper (WLAN)	Limit Side	Upper
	Reference Mode	Channel
	Channel BW	40 MHz
	RBW	1 MHz
	Sweep Time	Auto
	Auto Sweep Time Select	Fast
	Detection	Positive
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	40 MHz
	Offset-2 Start Freq	48.4 MHz
	Offset-1 Stop Freq	48.4 MHz
	Offset-2 Stop Freq	90 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-1 RBW	1 MHz
	Offset-2 RBW	1 MHz
	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Fast
	Offset-2 Auto Sweep Time Select	Fast
	Offset-1 Detection	Positive
	Offset-2 Detection	Positive
	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	Off
	Limit-1 ABS1 Start Level	–18.24 dB
	Limit-2 ABS1 Start Level	–26.02 dB
	Limit-1 ABS1 Stop Level	–18.24 dB
	Limit-2 ABS1 Stop Level	–26.02 dB
	Limit-1 Fail Logic	ABS1
	Limit-2 Fail Logic	ABS1

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
TELEC-T403 5210MHz Lower (WLAN)	Limit Side	Lower
	Reference Mode	Channel
	Channel BW	80 MHz
	RBW	1 MHz
	Sweep Time	Auto
	Auto Sweep Time Select	Fast
	Detection	Positive
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	60 MHz
	Offset-2 Start Freq	86.8 MHz
	Offset-1 Stop Freq	86.8 MHz
	Offset-2 Stop Freq	190 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-1 RBW	1 MHz
	Offset-2 RBW	1 MHz
	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Fast
	Offset-2 Auto Sweep Time Select	Fast
	Offset-1 Detection	Positive
	Offset-2 Detection	Positive
	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	Off
	Limit-1 ABS1 Start Level	–18.24 dB
	Limit-2 ABS1 Start Level	–26.02 dB
	Limit-1 ABS1 Stop Level	–18.24 dB
	Limit-2 ABS1 Stop Level	–26.02 dB
	Limit-1 Fail Logic	ABS1
	Limit-2 Fail Logic	ABS1

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
TELEC-T403 5210MHz Upper (WLAN)	Limit Side	Upper
	Reference Mode	Channel
	Channel BW	80 MHz
	RBW	1 MHz
	Sweep Time	Auto
	Auto Sweep Time Select	Fast
	Detection	Positive
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	40 MHz
	Offset-2 Start Freq	41 MHz
	Offset-3 Start Freq	80 MHz
	Offset-4 Start Freq	86.7 MHz
	Offset-1 Stop Freq	41 MHz
	Offset-2 Stop Freq	80 MHz
	Offset-3 Stop Freq	86.7 MHz
	Offset-4 Stop Freq	270 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-3 Reference Level	Auto
	Offset-4 Reference Level	Auto
	Offset-1 RBW	1 MHz
	Offset-2 RBW	1 MHz
	Offset-3 RBW	1 MHz
	Offset-4 RBW	1 MHz
	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-3 Sweep Time	Auto
	Offset-4 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Fast
	Offset-2 Auto Sweep Time Select	Fast
	Offset-3 Auto Sweep Time Select	Fast
	Offset-4 Auto Sweep Time Select	Fast
	Offset-1 Detection	Positive
	Offset-2 Detection	Positive
	Offset-3 Detection	Positive
	Offset-4 Detection	Positive

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
TELEC-T403 5210MHz Upper (WLAN)	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-3 Trace Point	1001
	Offset-4 Trace Point	1001
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto
	Offset-3 Integrate BW	Auto
	Offset-4 Integrate BW	Auto
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	On
	Offset-5 On/Off	Off
	Limit-1 ABS1 Start Level	–6.02 dB
	Limit-2 ABS1 Start Level	–16.02 dB
	Limit-3 ABS1 Start Level	–23.98 dB
	Limit-4 ABS1 Start Level	–26.02 dB
	Limit-1 ABS1 Stop Level	–16.02 dB
	Limit-2 ABS1 Stop Level	–23.98 dB
	Limit-3 ABS1 Stop Level	–26.02 dB
	Limit-4 ABS1 Stop Level	–26.02 dB
	Limit-1 Fail Logic	ABS1
	Limit-2 Fail Logic	ABS1
	Limit-3 Fail Logic	ABS1
	Limit-4 Fail Logic	ABS1

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
TELEC-T403 5290MHz Lower (WLAN)	Limit Side	Lower
	Reference Mode	Channel
	Channel BW	80 MHz
	RBW	1 MHz
	Sweep Time	Auto
	Auto Sweep Time Select	Fast
	Detection	Positive
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	40 MHz
	Offset-2 Start Freq	41 MHz
	Offset-3 Start Freq	80 MHz
	Offset-4 Start Freq	86.7 MHz
	Offset-1 Stop Freq	41 MHz
	Offset-2 Stop Freq	80 MHz
	Offset-3 Stop Freq	86.7 MHz
	Offset-4 Stop Freq	270 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-3 Reference Level	Auto
	Offset-4 Reference Level	Auto
	Offset-1 RBW	1 MHz
	Offset-2 RBW	1 MHz
	Offset-3 RBW	1 MHz
	Offset-4 RBW	1 MHz
	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-3 Sweep Time	Auto
	Offset-4 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Fast
	Offset-2 Auto Sweep Time Select	Fast
	Offset-3 Auto Sweep Time Select	Fast
	Offset-4 Auto Sweep Time Select	Fast
	Offset-1 Detection	Positive
	Offset-2 Detection	Positive
	Offset-3 Detection	Positive
	Offset-4 Detection	Positive

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
TELEC-T403 5290MHz Lower (WLAN)	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-3 Trace Point	1001
	Offset-4 Trace Point	1001
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto
	Offset-3 Integrate BW	Auto
	Offset-4 Integrate BW	Auto
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	On
	Offset-5 On/Off	Off
	Limit-1 ABS1 Start Level	–6.02 dB
	Limit-2 ABS1 Start Level	–16.02 dB
	Limit-3 ABS1 Start Level	–23.98 dB
	Limit-4 ABS1 Start Level	–26.02 dB
	Limit-1 ABS1 Stop Level	–16.02 dB
	Limit-2 ABS1 Stop Level	–23.98 dB
	Limit-3 ABS1 Stop Level	–26.02 dB
	Limit-4 ABS1 Stop Level	–26.02 dB
	Limit-1 Fail Logic	ABS1
	Limit-2 Fail Logic	ABS1
	Limit-3 Fail Logic	ABS1
	Limit-4 Fail Logic	ABS1

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
TELEC-T403 5290MHz Upper (WLAN)	Limit Side	Upper
	Reference Mode	Channel
	Channel BW	80 MHz
	RBW	1 MHz
	Sweep Time	Auto
	Auto Sweep Time Select	Fast
	Detection	Positive
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	60 MHz
	Offset-2 Start Freq	86.8 MHz
	Offset-1 Stop Freq	86.8 MHz
	Offset-2 Stop Freq	190 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-1 RBW	1 MHz
	Offset-2 RBW	1 MHz
	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Fast
	Offset-2 Auto Sweep Time Select	Fast
	Offset-1 Detection	Positive
	Offset-2 Detection	Positive
	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	Off
	Limit-1 ABS1 Start Level	–18.24 dB
	Limit-2 ABS1 Start Level	–26.02 dB
	Limit-1 ABS1 Stop Level	–18.24 dB
	Limit-2 ABS1 Stop Level	–26.02 dB
	Limit-1 Fail Logic	ABS1
	Limit-2 Fail Logic	ABS1

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
TELEC-T403 5250MHz Lower (WLAN)	Limit Side	Lower
	Reference Mode	Channel
	Channel BW	160 MHz
	RBW	1 MHz
	Sweep Time	Auto
	Auto Sweep Time Select	Fast
	Detection	Positive
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	100 MHz
	Offset-2 Start Freq	150.4 MHz
	Offset-1 Stop Freq	150.4 MHz
	Offset-2 Stop Freq	334 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-1 RBW	1 MHz
	Offset-2 RBW	1 MHz
	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Fast
	Offset-2 Auto Sweep Time Select	Fast
	Offset-1 Detection	Positive
	Offset-2 Detection	Positive
	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	Off
	Limit-1 ABS1 Start Level	–18.24 dB
	Limit-2 ABS1 Start Level	–26.02 dB
	Limit-1 ABS1 Stop Level	–18.24 dB
	Limit-2 ABS1 Stop Level	–26.02 dB
	Limit-1 Fail Logic	ABS1
	Limit-2 Fail Logic	ABS1

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
TELEC-T403 5250MHz Upper (WLAN)	Limit Side	Upper
	Reference Mode	Channel
	Channel BW	160 MHz
	RBW	1 MHz
	Sweep Time	Auto
	Auto Sweep Time Select	Fast
	Detection	Positive
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	100 MHz
	Offset-2 Start Freq	150.4 MHz
	Offset-1 Stop Freq	150.4 MHz
	Offset-2 Stop Freq	334 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-1 RBW	1 MHz
	Offset-2 RBW	1 MHz
	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Fast
	Offset-2 Auto Sweep Time Select	Fast
	Offset-1 Detection	Positive
	Offset-2 Detection	Positive
	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	Off
	Limit-1 ABS1 Start Level	–18.24 dB
	Limit-2 ABS1 Start Level	–26.02 dB
	Limit-1 ABS1 Stop Level	–18.24 dB
	Limit-2 ABS1 Stop Level	–26.02 dB
	Limit-1 Fail Logic	ABS1
	Limit-2 Fail Logic	ABS1

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
TELEC-T403 5210MHz 80+80 Lower (WLAN)	Limit Side	Lower
	Reference Mode	Channel
	Channel BW	80 MHz
	RBW	1 MHz
	Sweep Time	Auto
	Auto Sweep Time Select	Fast
	Detection	Positive
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	60 MHz
	Offset-2 Start Freq	75.2 MHz
	Offset-1 Stop Freq	75.2 MHz
	Offset-2 Stop Freq	190 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-1 RBW	1 MHz
	Offset-2 RBW	1 MHz
	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Fast
	Offset-2 Auto Sweep Time Select	Fast
	Offset-1 Detection	Positive
	Offset-2 Detection	Positive
	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	Off
	Limit-1 ABS1 Start Level	–19.03 dB
	Limit-2 ABS1 Start Level	–26.02 dB
	Limit-1 ABS1 Stop Level	–19.03 dB
	Limit-2 ABS1 Stop Level	–26.02 dB
	Limit-1 Fail Logic	ABS1
	Limit-2 Fail Logic	ABS1

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
TELEC-T403 5210MHz 80+80 Upper (WLAN)	Limit Side	Upper
	Reference Mode	Channel
	Channel BW	80 MHz
	RBW	1 MHz
	Sweep Time	Auto
	Auto Sweep Time Select	Fast
	Detection	Positive
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	40 MHz
	Offset-2 Start Freq	41 MHz
	Offset-3 Start Freq	75.2 MHz
	Offset-1 Stop Freq	41 MHz
	Offset-2 Stop Freq	75.2 MHz
	Offset-3 Stop Freq	160 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-3 Reference Level	Auto
	Offset-1 RBW	1 MHz
	Offset-2 RBW	1 MHz
	Offset-3 RBW	1 MHz
	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-3 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Fast
	Offset-2 Auto Sweep Time Select	Fast
	Offset-3 Auto Sweep Time Select	Fast
	Offset-1 Detection	Positive
	Offset-2 Detection	Positive
	Offset-3 Detection	Positive
	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-3 Trace Point	1001

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
TELEC-T403 5210MHz 80+80 Upper (WLAN)	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto
	Offset-3 Integrate BW	Auto
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	Off
	Limit-1 ABS1 Start Level	–9.03 dB
	Limit-2 ABS1 Start Level	–19.03 dB
	Limit-3 ABS1 Start Level	–26.02 dB
	Limit-1 ABS1 Stop Level	–19.03 dB
	Limit-2 ABS1 Stop Level	–26.02 dB
	Limit-3 ABS1 Stop Level	–26.02 dB
	Limit-1 Fail Logic	ABS1
	Limit-2 Fail Logic	ABS1
	Limit-3 Fail Logic	ABS1

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
TELEC-T403 5210MHz-5530MHz Lower (WLAN)	Limit Side	Lower
	Reference Mode	Channel
	Channel BW	80 MHz
	RBW	1 MHz
	Sweep Time	Auto
	Auto Sweep Time Select	Fast
	Detection	Positive
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	60 MHz
	Offset-2 Start Freq	75.2 MHz
	Offset-1 Stop Freq	75.2 MHz
	Offset-2 Stop Freq	160 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-1 RBW	1 MHz
	Offset-2 RBW	1 MHz
	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Fast
	Offset-2 Auto Sweep Time Select	Fast
	Offset-1 Detection	Positive
	Offset-2 Detection	Positive
	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	Off
	Limit-1 ABS1 Start Level	–18.24 dB
	Limit-2 ABS1 Start Level	–26.02 dB
	Limit-1 ABS1 Stop Level	–18.24 dB
	Limit-2 ABS1 Stop Level	–26.02 dB
	Limit-1 Fail Logic	ABS1
	Limit-2 Fail Logic	ABS1

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
TELEC-T403 5210MHz-5610MHz Upper (WLAN)	Limit Side	Upper
	Reference Mode	Channel
	Channel BW	80 MHz
	RBW	1 MHz
	Sweep Time	Auto
	Auto Sweep Time Select	Fast
	Detection	Positive
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	115 MHz
	Offset-1 Stop Freq	190 MHz
	Offset-1 Reference Level	Auto
	Offset-1 RBW	1 MHz
	Offset-1 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Fast
	Offset-1 Detection	Positive
	Offset-1 Trace Point	1001
	Offset-1 Integrate BW	Auto
	Offset-1 On/Off	On
	Offset-2 On/Off	Off
	Limit-1 ABS1 Start Level	–18.24 dB
	Limit-1 ABS1 Stop Level	–18.24 dB
	Limit-1 Fail Logic	ABS1

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
TELEC-T403 5290MHz 80+80 Lower (WLAN)	Limit Side	Lower
	Reference Mode	Channel
	Channel BW	80 MHz
	RBW	1 MHz
	Sweep Time	Auto
	Auto Sweep Time Select	Fast
	Detection	Positive
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	40 MHz
	Offset-2 Start Freq	41 MHz
	Offset-3 Start Freq	75.2 MHz
	Offset-1 Stop Freq	41 MHz
	Offset-2 Stop Freq	75.2 MHz
	Offset-3 Stop Freq	270 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-3 Reference Level	Auto
	Offset-1 RBW	1 MHz
	Offset-2 RBW	1 MHz
	Offset-3 RBW	1 MHz
	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-3 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Fast
	Offset-2 Auto Sweep Time Select	Fast
	Offset-3 Auto Sweep Time Select	Fast
	Offset-1 Detection	Positive
	Offset-2 Detection	Positive
	Offset-3 Detection	Positive
	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-3 Trace Point	1001

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
TELEC-T403 5290MHz 80+80 Lower (WLAN)	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto
	Offset-3 Integrate BW	Auto
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	Off
	Limit-1 ABS1 Start Level	–9.03 dB
	Limit-2 ABS1 Start Level	–19.03 dB
	Limit-3 ABS1 Start Level	–26.02 dB
	Limit-1 ABS1 Stop Level	–19.03 dB
	Limit-2 ABS1 Stop Level	–26.02 dB
	Limit-3 ABS1 Stop Level	–26.02 dB
	Limit-1 Fail Logic	ABS1
	Limit-2 Fail Logic	ABS1
	Limit-3 Fail Logic	ABS1

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
TELEC-T403 5290MHz 80+80 Upper (WLAN)	Limit Side	Upper
	Reference Mode	Channel
	Channel BW	80 MHz
	RBW	1 MHz
	Sweep Time	Auto
	Auto Sweep Time Select	Fast
	Detection	Positive
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	60 MHz
	Offset-2 Start Freq	75.2 MHz
	Offset-1 Stop Freq	75.2 MHz
	Offset-2 Stop Freq	120 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-1 RBW	1 MHz
	Offset-2 RBW	1 MHz
	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Fast
	Offset-2 Auto Sweep Time Select	Fast
	Offset-1 Detection	Positive
	Offset-2 Detection	Positive
	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	Off
	Limit-1 ABS1 Start Level	–18.24 dB
	Limit-2 ABS1 Start Level	–26.02 dB
	Limit-1 ABS1 Stop Level	–18.24 dB
	Limit-2 ABS1 Stop Level	–26.02 dB
	Limit-1 Fail Logic	ABS1
	Limit-2 Fail Logic	ABS1

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
TELEC-T403 5290MHz-5530MHz Lower (WLAN)	Limit Side	Lower
	Reference Mode	Channel
	Channel BW	80 MHz
	RBW	1 MHz
	Sweep Time	Auto
	Auto Sweep Time Select	Fast
	Detection	Positive
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	60 MHz
	Offset-2 Start Freq	75.2 MHz
	Offset-1 Stop Freq	75.2 MHz
	Offset-2 Stop Freq	120 MHz
	Offset-1 Reference Level	Auto
	Offset-2 Reference Level	Auto
	Offset-1 RBW	1 MHz
	Offset-2 RBW	1 MHz
	Offset-1 Sweep Time	Auto
	Offset-2 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Fast
	Offset-2 Auto Sweep Time Select	Fast
	Offset-1 Detection	Positive
	Offset-2 Detection	Positive
	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-1 Integrate BW	Auto
	Offset-2 Integrate BW	Auto
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	Off
	Limit-1 ABS1 Start Level	–18.24 dB
	Limit-2 ABS1 Start Level	–26.02 dB
	Limit-1 ABS1 Stop Level	–18.24 dB
	Limit-2 ABS1 Stop Level	–26.02 dB
	Limit-1 Fail Logic	ABS1
	Limit-2 Fail Logic	ABS1

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
TELEC-T403 5290MHz-5610MHz Upper (WLAN)	Limit Side	Upper
	Reference Mode	Channel
	Channel BW	80 MHz
	RBW	1 MHz
	Sweep Time	Auto
	Auto Sweep Time Select	Fast
	Detection	Positive
	Trace Point	1001
	Filter Type	Rect
	Offset-1 Start Freq	115 MHz
	Offset-1 Stop Freq	190 MHz
	Offset-1 Reference Level	Auto
	Offset-1 RBW	1 MHz
	Offset-1 Sweep Time	Auto
	Offset-1 Auto Sweep Time Select	Fast
	Offset-1 Detection	Positive
	Offset-1 Trace Point	1001
	Offset-1 Integrate BW	Auto
	Offset-1 On/Off	On
	Offset-2 On/Off	Off
	Limit-1 ABS1 Start Level	–18.24 dB
	Limit-1 ABS1 Stop Level	–18.24 dB
	Limit-1 Fail Logic	ABS1

NXDN

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
NXDN 47CFR-E_6.25k Hz	Limit Side	Both
	Reference Mode	Peak
	Channel BW	6 kHz
	RBW	30 kHz
	VBW	30 kHz
	VBW Mode	Power
	Sweep Time	Manual
	Sweep Time Value	3 sec
	Auto Sweep Time Select	Normal
	Detection	Positive
	Trace Point	1001
	Offset-1 Start Freq	0 Hz
	Offset-2 Start Freq	3 kHz
	Offset-3 Start Freq	4.6 kHz
	Offset-1 Stop Freq	3 kHz
	Offset-2 Stop Freq	4.6 kHz
	Offset-3 Stop Freq	50 kHz
	Offset-1 RBW	100 Hz
	Offset-2 RBW	100 Hz
	Offset-3 RBW	100 Hz
	Offset-1 VBW	1 kHz
	Offset-2 VBW	1 kHz
	Offset-3 VBW	1 kHz
	Offset-1 VBW Mode	Power
	Offset-2 VBW Mode	Power
	Offset-3 VBW Mode	Power

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
NXDN 47CFR-E_6.25k Hz	Offset-1 Sweep Time Switch	Manual
	Offset-1 Sweep Time Value	2.9 sec
	Offset-2 Sweep Time Switch	Manual
	Offset-2 Sweep Time Value	3.5 sec
	Offset-3 Sweep Time Switch	Manual
	Offset-3 Sweep Time Value	6.3 sec
	Offset-1 Auto Sweep Time Select	Normal
	Offset-2 Auto Sweep Time Select	Normal
	Offset-3 Auto Sweep Time Select	Normal
	Offset-1 Detection	Positive
	Offset-2 Detection	Positive
	Offset-3 Detection	Positive
	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-3 Trace Point	1001
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	Off
	Offset-5 On/Off	Off
	Offset-6 On/Off	Off
	Offset-7 On/Off	Off
	Offset-8 On/Off	Off
	Offset-9 On/Off	Off
	Offset-10 On/Off	Off
	Offset-11 On/Off	Off
	Offset-12 On/Off	Off
	Limit-1 REL Start Level	0.0 dB
	Limit-2 REL Start Level	–30.0 dB
	Limit-3 REL Start Level	–65.0 dB
	Limit-1 REL Stop Level	0.0 dB
	Limit-2 REL Stop Level	–56.67 dB
	Limit-3 REL Stop Level	–65.0 dB
	Limit-1 Fail Logic	REL
	Limit-2 Fail Logic	REL
	Limit-3 Fail Logic	REL

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
NXDN 47CFR-D_12.5k Hz	Limit Side	Both
	Reference Mode	Peak
	Channel BW	11.25 kHz
	RBW	30 kHz
	VBW	30 kHz
	VBW Mode	Power
	Sweep Time	Manual
	Sweep Time Value	5.7 sec
	Auto Sweep Time Select	Normal
	Detection	Positive
	Trace Point	1001
	Offset-1 Start Freq	0 Hz
	Offset-2 Start Freq	5.624 kHz
	Offset-3 Start Freq	12.5 kHz
	Offset-1 Stop Freq	5.624 kHz
	Offset-2 Stop Freq	12.5 kHz
	Offset-3 Stop Freq	50 kHz
	Offset-1 RBW	100 Hz
	Offset-2 RBW	100 Hz
	Offset-3 RBW	100 Hz
	Offset-1 VBW	1 kHz
	Offset-2 VBW	1 kHz
	Offset-3 VBW	1 kHz
	Offset-1 VBW Mode	Power
	Offset-2 VBW Mode	Power
	Offset-3 VBW Mode	Power

Table D-5 Standard parameters for Spectrum Emission Mask (Cont'd)

Standard	Parameter Name	Setting
NXDN 47CFR-D_12.5k Hz	Offset-1 Sweep Time Switch	Manual
	Offset-1 Sweep Time Value	2.9 sec
	Offset-2 Sweep Time Switch	Manual
	Offset-2 Sweep Time Value	3.5 sec
	Offset-3 Sweep Time Switch	Manual
	Offset-3 Sweep Time Value	6.3 sec
	Offset-1 Detection	Positive
	Offset-2 Detection	Positive
	Offset-3 Detection	Positive
	Offset-1 Trace Point	1001
	Offset-2 Trace Point	1001
	Offset-3 Trace Point	1001
	Offset-1 On/Off	On
	Offset-2 On/Off	On
	Offset-3 On/Off	On
	Offset-4 On/Off	Off
	Offset-5 On/Off	Off
	Offset-6 On/Off	Off
	Offset-7 On/Off	Off
	Offset-8 On/Off	Off
	Offset-9 On/Off	Off
	Offset-10 On/Off	Off
	Offset-11 On/Off	Off
	Offset-12 On/Off	Off
	Limit-1 REL Start Level	0.0 dB
	Limit-2 REL Start Level	–19.95 dB
	Limit-3 REL Start Level	–70.0 dB
	Limit-1 REL Stop Level	0.0 dB
	Limit-2 REL Stop Level	–69.94 dB
	Limit-3 REL Stop Level	–70.0 dB
	Limit-1 Fail Logic	REL
	Limit-2 Fail Logic	REL
	Limit-3 Fail Logic	REL

D-6 Spurious Emission

TELEC-T401

Table D-6 Standard parameters for Spurious Emission

Standard	Parameter Name	Setting
TELEC-T401 (WLAN)	Spurious Result Type	Worst
	Spurious Fail Stop	Off
	Spurious Segment Switch1	On
	Spurious Segment Switch2	On
	Spurious Segment Switch3	On
	Spurious Segment Switch4	On
	Spurious Segment Switch5	On
	Spurious Segment Switch6	On
	Spurious Segment Switch7	On
	Spurious Segment Switch8	On
	Segment-1 Start Freq	30 MHz
	Segment-1 Stop Freq	2.387 GHz
	Segment-1 RBW	1 MHz
	Segment-1 VBW	1 MHz
	Segment-1 Sweep Time Switch	Auto
	Segment-1 Detection	Positive
	Segment-1 Limit Start Level	–26 dB
	Segment-1 Limit Stop Level	–26 dB
	Segment-2 Start Freq	2.387 GHz
	Segment-2 Stop Freq	2.4000 GHz
	Segment-2 RBW	1 MHz
	Segment-2 VBW	1 MHz
	Segment-2 Sweep Time Switch	Auto
	Segment-2 Detection	Positive
	Segment-2 Limit Start Level	–16 dB
	Segment-2 Limit Stop Level	–16 dB
	Segment-3 Start Freq	2.4835 GHz
	Segment-3 Stop Freq	2.4965 GHz
	Segment-3 RBW	1 MHz
	Segment-3 VBW	1 MHz
	Segment-3 Sweep Time Switch	Auto
	Segment-3 Detection	Positive
	Segment-3 Limit Start Level	–16 dB
	Segment-3 Limit Stop Level	–16 dB

Table D-6 Standard parameters for Spurious Emission (Cont'd)

Standard	Parameter Name	Setting
TELEC-T401 (WLAN)	Segment-4 Start Freq	2.4965 GHz
	Segment-4 Stop Freq	12.5 GHz or Max Frequency
	Segment-4 RBW	1 MHz
	Segment-4 VBW	1 MHz
	Segment-4 Sweep Time Switch	Auto
	Segment-4 Detection	Positive
	Segment-4 Limit Start Level	–26 dB
	Segment-4 Limit Stop Level	–26 dB
	Segment-5 Start Freq	2.374 GHz
	Segment-5 Stop Freq	2.387 GHz
	Segment-5 RBW	1 MHz
	Segment-5 VBW	1 MHz
	Segment-5 Sweep Time Switch	Auto
	Segment-5 Detection	Positive
	Segment-5 Limit Start Level	–26 dB
	Segment-5 Limit Stop Level	–26 dB
	Segment-6 Start Freq	2.387 GHz
	Segment-6 Stop Freq	2.400 GHz
	Segment-6 RBW	1 MHz
	Segment-6 VBW	1 MHz
	Segment-6 Sweep Time Switch	Auto
	Segment-6 Detection	Positive
	Segment-6 Limit Start Level	–16 dB
	Segment-6 Limit Stop Level	–16 dB
	Segment-7 Start Freq	2.4835 GHz
	Segment-7 Stop Freq	2.4965 GHz
	Segment-7 RBW	1 MHz
	Segment-7 VBW	1 MHz
	Segment-7 Sweep Time Switch	Auto
	Segment-7 Detection	Positive
	Segment-7 Limit Start Level	–16 dB
	Segment-7 Limit Stop Level	–16 dB

Table D-6 Standard parameters for Spurious Emission (Cont'd)

Standard	Parameter Name	Setting
TELEC-T401 (WLAN)	Segment-8 Start Freq	2.4965 GHz
	Segment-8 Stop Freq	2.5095 GHz
	Segment-8 RBW	1 MHz
	Segment-8 VBW	1 MHz
	Segment-8 Sweep Time Switch	Auto
	Segment-8 Detection	Positive
	Segment-8 Limit Start Level	–26 dB
	Segment-8 Limit Stop Level	–26 dB

TELEC-T402

Table D-6 Standard parameters for Spurious Emission (Cont'd)

Standard	Parameter Name	Setting
TELEC-T402 (WLAN)	Spurious Result Type	Worst
	Spurious Fail Stop	Off
	Spurious Segment Switch1	On
	Spurious Segment Switch2	On
	Spurious Segment Switch3	On
	Spurious Segment Switch4	On
	Spurious Segment Switch5	On
	Spurious Segment Switch6	On
	Spurious Segment Switch7	On
	Spurious Segment Switch8	On
	Segment-1 Start Freq	30 MHz
	Segment-1 Stop Freq	2.458 GHz
	Segment-1 RBW	1 MHz
	Segment-1 VBW	1 MHz
	Segment-1 Sweep Time Switch	Auto
	Segment-1 Detection	Positive
	Segment-1 Limit Start Level	–26 dB
	Segment-1 Limit Stop Level	–26 dB
	Segment-2 Start Freq	2.458 GHz
	Segment-2 Stop Freq	2.471 GHz
	Segment-2 RBW	1 MHz
	Segment-2 VBW	1 MHz
	Segment-2 Sweep Time Switch	Auto
	Segment-2 Detection	Positive
	Segment-2 Limit Start Level	–16 dB
	Segment-2 Limit Stop Level	–16 dB
	Segment-3 Start Freq	2.497 GHz
	Segment-3 Stop Freq	2.510 GHz
	Segment-3 RBW	1 MHz
	Segment-3 VBW	1 MHz
	Segment-3 Sweep Time Switch	Auto
	Segment-3 Detection	Positive
	Segment-3 Limit Start Level	–16 dB
	Segment-3 Limit Stop Level	–16 dB
	Segment-4 Start Freq	2.510 GHz
	Segment-4 Stop Freq	12.5 GHz or Max Frequency

Table D-6 Standard parameters for Spurious Emission (Cont'd)

Standard	Parameter Name	Setting
TELEC-T402 (WLAN)	Segment-4 RBW	1 MHz
	Segment-4 VBW	1 MHz
	Segment-4 Sweep Time Switch	Auto
	Segment-4 Detection	Positive
	Segment-4 Limit Start Level	–26 dB
	Segment-4 Limit Stop Level	–26 dB
	Segment-5 Start Freq	2.450 GHz
	Segment-5 Stop Freq	2.458 GHz
	Segment-5 RBW	1 MHz
	Segment-5 VBW	1 MHz
	Segment-5 Sweep Time Switch	Auto
	Segment-5 Detection	Positive
	Segment-5 Limit Start Level	–26 dB
	Segment-5 Limit Stop Level	–26 dB
	Segment-6 Start Freq	2.458 GHz
	Segment-6 Stop Freq	2.471 GHz
	Segment-6 RBW	1 MHz
	Segment-6 VBW	1 MHz
	Segment-6 Sweep Time Switch	Auto
	Segment-6 Detection	Positive
	Segment-6 Limit Start Level	–16 dB
	Segment-6 Limit Stop Level	–16 dB
	Segment-7 Start Freq	2.497 GHz
	Segment-7 Stop Freq	2.510 GHz
	Segment-7 RBW	1 MHz
	Segment-7 VBW	1 MHz
	Segment-7 Sweep Time Switch	Auto
	Segment-7 Detection	Positive
	Segment-7 Limit Start Level	–16 dB
	Segment-7 Limit Stop Level	–16 dB
	Segment-8 Start Freq	2.510 GHz
	Segment-8 Stop Freq	2.523 GHz
	Segment-8 RBW	1 MHz
	Segment-8 VBW	1 MHz
	Segment-8 Sweep Time Switch	Auto
	Segment-8 Detection	Positive
	Segment-8 Limit Start Level	–26 dB
	Segment-8 Limit Stop Level	–26 dB

TELEC-T403

Table D-6 Standard parameters for Spurious Emission (Cont'd)

Standard	Parameter Name	Setting
TELEC-T403 ≤ 18MHz 5.2GHz (WLAN)	Spurious Result Type	Worst
	Spurious Fail Stop	Off
	Spurious Segment Switch1	On
	Spurious Segment Switch2	On
	Spurious Segment Switch3	Off
	Segment-1 Start Freq	30 MHz
	Segment-1 Stop Freq	5.14 GHz
	Segment-1 RBW	1 MHz
	Segment-1 VBW	1 MHz
	Segment-1 Sweep Time Switch	Auto
	Segment-1 Detection	Positive
	Segment-1 Limit Start Level	–26 dB
	Segment-1 Limit Stop Level	–26 dB
	Segment-2 Start Freq	5.360 GHz
	Segment-2 Stop Freq	26 GHz or Max Frequency
	Segment-2 RBW	1 MHz
	Segment-2 VBW	1 MHz
	Segment-2 Sweep Time Switch	Auto
	Segment-2 Detection	Positive
	Segment-2 Limit Start Level	–26 dB
	Segment-2 Limit Stop Level	–26 dB

Table D-6 Standard parameters for Spurious Emission (Cont'd)

Standard	Parameter Name	Setting
TELEC-T403 ≤ 18MHz 5.3GHz (WLAN)	Spurious Result Type	Worst
	Spurious Fail Stop	Off
	Spurious Segment Switch1	On
	Spurious Segment Switch2	On
	Spurious Segment Switch3	Off
	Segment-1 Start Freq	30 MHz
	Segment-1 Stop Freq	5.14 GHz
	Segment-1 RBW	1 MHz
	Segment-1 VBW	1 MHz
	Segment-1 Sweep Time Switch	Auto
	Segment-1 Detection	Positive
	Segment-1 Limit Start Level	–26 dB
	Segment-1 Limit Stop Level	–26 dB
	Segment-2 Start Freq	5.360 GHz
	Segment-2 Stop Freq	26 GHz or Max Frequency
	Segment-2 RBW	1 MHz
	Segment-2 VBW	1 MHz
	Segment-2 Sweep Time Switch	Auto
	Segment-2 Detection	Positive
	Segment-2 Limit Start Level	–26 dB
	Segment-2 Limit Stop Level	–26 dB

Table D-6 Standard parameters for Spurious Emission (Cont'd)

Standard	Parameter Name	Setting
TELEC-T403 ≤ 18MHz 5.6GHz (WLAN)	Spurious Result Type	Worst
	Spurious Fail Stop	Off
	Spurious Segment Switch1	On
	Spurious Segment Switch2	On
	Spurious Segment Switch3	Off
	Segment-1 Start Freq	30 MHz
	Segment-1 Stop Freq	5.46 GHz
	Segment-1 RBW	1 MHz
	Segment-1 VBW	1 MHz
	Segment-1 Sweep Time Switch	Auto
	Segment-1 Detection	Positive
	Segment-1 Limit Start Level	–26 dB
	Segment-1 Limit Stop Level	–26 dB
	Segment-2 Start Freq	5.74 GHz
	Segment-2 Stop Freq	26 GHz or Max Frequency
	Segment-2 RBW	1 MHz
	Segment-2 VBW	1 MHz
	Segment-2 Sweep Time Switch	Auto
	Segment-2 Detection	Positive
	Segment-2 Limit Start Level	–26 dB
	Segment-2 Limit Stop Level	–26 dB

Table D-6 Standard parameters for Spurious Emission (Cont'd)

Standard	Parameter Name	Setting
TELEC-T403 18MHz <, ≤ 19MHz 5.2GHz (WLAN)	Spurious Result Type	Worst
	Spurious Fail Stop	Off
	Spurious Segment Switch1	On
	Spurious Segment Switch2	On
	Spurious Segment Switch3	Off
	Segment-1 Start Freq	30 MHz
	Segment-1 Stop Freq	5.135 GHz
	Segment-1 RBW	1 MHz
	Segment-1 VBW	1 MHz
	Segment-1 Sweep Time Switch	Auto
	Segment-1 Detection	Positive
	Segment-1 Limit Start Level	–26 dB
	Segment-1 Limit Stop Level	–26 dB
	Segment-2 Start Freq	5.365 GHz
	Segment-2 Stop Freq	26 GHz or Max Frequency
	Segment-2 RBW	1 MHz
	Segment-2 VBW	1 MHz
	Segment-2 Sweep Time Switch	Auto
	Segment-2 Detection	Positive
	Segment-2 Limit Start Level	–26 dB
	Segment-2 Limit Stop Level	–26 dB

Table D-6 Standard parameters for Spurious Emission (Cont'd)

Standard	Parameter Name	Setting
TELEC-T403 18MHz <, ≤ 19MHz 5.3GHz (WLAN)	Spurious Result Type	Worst
	Spurious Fail Stop	Off
	Spurious Segment Switch1	On
	Spurious Segment Switch2	On
	Spurious Segment Switch3	Off
	Segment-1 Start Freq	30 MHz
	Segment-1 Stop Freq	5.135 GHz
	Segment-1 RBW	1 MHz
	Segment-1 VBW	1 MHz
	Segment-1 Sweep Time Switch	Auto
	Segment-1 Detection	Positive
	Segment-1 Limit Start Level	–26 dB
	Segment-1 Limit Stop Level	–26 dB
	Segment-2 Start Freq	5.365 GHz
	Segment-2 Stop Freq	26 GHz or Max Frequency
	Segment-2 RBW	1 MHz
	Segment-2 VBW	1 MHz
	Segment-2 Sweep Time Switch	Auto
	Segment-2 Detection	Positive
	Segment-2 Limit Start Level	–26 dB
	Segment-2 Limit Stop Level	–26 dB

Table D-6 Standard parameters for Spurious Emission (Cont'd)

Standard	Parameter Name	Setting
TELEC-T403 18MHz <, ≤ 19MHz 5.6GHz (WLAN)	Spurious Result Type	Worst
	Spurious Fail Stop	Off
	Spurious Segment Switch1	On
	Spurious Segment Switch2	On
	Spurious Segment Switch3	Off
	Segment-1 Start Freq	30 MHz
	Segment-1 Stop Freq	5.455 GHz
	Segment-1 RBW	1 MHz
	Segment-1 VBW	1 MHz
	Segment-1 Sweep Time Switch	Auto
	Segment-1 Detection	Positive
	Segment-1 Limit Start Level	–26 dB
	Segment-1 Limit Stop Level	–26 dB
	Segment-2 Start Freq	5.745 GHz
	Segment-2 Stop Freq	26 GHz or Max Frequency
	Segment-2 RBW	1 MHz
	Segment-2 VBW	1 MHz
	Segment-2 Sweep Time Switch	Auto
	Segment-2 Detection	Positive
	Segment-2 Limit Start Level	–26 dB
	Segment-2 Limit Stop Level	–26 dB

Table D-6 Standard parameters for Spurious Emission (Cont'd)

Standard	Parameter Name	Setting
TELEC-T403 19MHz < 5.2GHz (WLAN)	Spurious Result Type	Worst
	Spurious Fail Stop	Off
	Spurious Segment Switch1	On
	Spurious Segment Switch2	On
	Spurious Segment Switch3	Off
	Segment-1 Start Freq	30 MHz
	Segment-1 Stop Freq	5.1 GHz
	Segment-1 RBW	1 MHz
	Segment-1 VBW	1 MHz
	Segment-1 Sweep Time Switch	Auto
	Segment-1 Detection	Positive
	Segment-1 Limit Start Level	–26 dB
	Segment-1 Limit Stop Level	–26 dB
	Segment-2 Start Freq	5.4 GHz
	Segment-2 Stop Freq	26 GHz or Max Frequency
	Segment-2 RBW	1 MHz
	Segment-2 VBW	1 MHz
	Segment-2 Sweep Time Switch	Auto
	Segment-2 Detection	Positive
	Segment-2 Limit Start Level	–26 dB
	Segment-2 Limit Stop Level	–26 dB

Table D-6 Standard parameters for Spurious Emission (Cont'd)

Standard	Parameter Name	Setting
TELEC-T403 19MHz < 5.3GHz (WLAN)	Spurious Result Type	Worst
	Spurious Fail Stop	Off
	Spurious Segment Switch1	On
	Spurious Segment Switch2	On
	Spurious Segment Switch3	Off
	Segment-1 Start Freq	30 MHz
	Segment-1 Stop Freq	5.1 GHz
	Segment-1 RBW	1 MHz
	Segment-1 VBW	1 MHz
	Segment-1 Sweep Time Switch	Auto
	Segment-1 Detection	Positive
	Segment-1 Limit Start Level	–26 dB
	Segment-1 Limit Stop Level	–26 dB
	Segment-2 Start Freq	5.4 GHz
	Segment-2 Stop Freq	26 GHz or Max Frequency
	Segment-2 RBW	1 MHz
	Segment-2 VBW	1 MHz
	Segment-2 Sweep Time Switch	Auto
	Segment-2 Detection	Positive
	Segment-2 Limit Start Level	–26 dB
	Segment-2 Limit Stop Level	–26 dB

Table D-6 Standard parameters for Spurious Emission (Cont'd)

Standard	Parameter Name	Setting
TELEC-T403 19MHz < 5.6GHz (WLAN)	Spurious Result Type	Worst
	Spurious Fail Stop	Off
	Spurious Segment Switch1	On
	Spurious Segment Switch2	On
	Spurious Segment Switch3	Off
	Segment-1 Start Freq	30 MHz
	Segment-1 Stop Freq	5.42 GHz
	Segment-1 RBW	1 MHz
	Segment-1 VBW	1 MHz
	Segment-1 Sweep Time Switch	Auto
	Segment-1 Detection	Positive
	Segment-1 Limit Start Level	–26 dB
	Segment-1 Limit Stop Level	–26 dB
	Segment-2 Start Freq	5.76 GHz
	Segment-2 Stop Freq	26 GHz or Max Frequency
	Segment-2 RBW	1 MHz
	Segment-2 VBW	1 MHz
	Segment-2 Sweep Time Switch	Auto
	Segment-2 Detection	Positive
	Segment-2 Limit Start Level	–26 dB
	Segment-2 Limit Stop Level	–26 dB

Table D-6 Standard parameters for Spurious Emission (Cont'd)

Standard	Parameter Name	Setting
TELEC-T403 38MHz < , ≦78MHz 5.2GHz (WLAN)	Spurious Result Type	Worst
	Spurious Fail Stop	Off
	Spurious Segment Switch1	On
	Spurious Segment Switch2	On
	Spurious Segment Switch3	Off
	Segment-1 Start Freq	30 MHz
	Segment-1 Stop Freq	5.020 GHz
	Segment-1 RBW	1 MHz
	Segment-1 VBW	1 MHz
	Segment-1 Sweep Time Switch	Auto
	Segment-1 Detection	Positive
	Segment-1 Limit Start Level	–26 dB
	Segment-1 Limit Stop Level	–26 dB
	Segment-2 Start Freq	5.480 GHz
	Segment-2 Stop Freq	26 GHz or Max Frequency
	Segment-2 RBW	1 MHz
	Segment-2 VBW	1 MHz
	Segment-2 Sweep Time Switch	Auto
	Segment-2 Detection	Positive
	Segment-2 Limit Start Level	–26 dB
	Segment-2 Limit Stop Level	–26 dB

Table D-6 Standard parameters for Spurious Emission (Cont'd)

Standard	Parameter Name	Setting
TELEC-T403 38MHz < , ≦78MHz 5.3GHz (WLAN)	Spurious Result Type	Worst
	Spurious Fail Stop	Off
	Spurious Segment Switch1	On
	Spurious Segment Switch2	On
	Spurious Segment Switch3	Off
	Segment-1 Start Freq	30 MHz
	Segment-1 Stop Freq	5.020 GHz
	Segment-1 RBW	1 MHz
	Segment-1 VBW	1 MHz
	Segment-1 Sweep Time Switch	Auto
	Segment-1 Detection	Positive
	Segment-1 Limit Start Level	–26 dB
	Segment-1 Limit Stop Level	–26 dB
	Segment-2 Start Freq	5.480 GHz
	Segment-2 Stop Freq	26 GHz or Max Frequency
	Segment-2 RBW	1 MHz
	Segment-2 VBW	1 MHz
	Segment-2 Sweep Time Switch	Auto
	Segment-2 Detection	Positive
	Segment-2 Limit Start Level	–26 dB
	Segment-2 Limit Stop Level	–26 dB

Table D-6 Standard parameters for Spurious Emission (Cont'd)

Standard	Parameter Name	Setting
TELEC-T403 38MHz < , ≦78MHz 5.6GHz (WLAN)	Spurious Result Type	Worst
	Spurious Fail Stop	Off
	Spurious Segment Switch1	On
	Spurious Segment Switch2	On
	Spurious Segment Switch3	Off
	Segment-1 Start Freq	30 MHz
	Segment-1 Stop Freq	5.340 GHz
	Segment-1 RBW	1 MHz
	Segment-1 VBW	1 MHz
	Segment-1 Sweep Time Switch	Auto
	Segment-1 Detection	Positive
	Segment-1 Limit Start Level	–26 dB
	Segment-1 Limit Stop Level	–26 dB
	Segment-2 Start Freq	5.800 GHz
	Segment-2 Stop Freq	26 GHz or Max Frequency
	Segment-2 RBW	1 MHz
	Segment-2 VBW	1 MHz
	Segment-2 Sweep Time Switch	Auto
	Segment-2 Detection	Positive
	Segment-2 Limit Start Level	–26 dB
	Segment-2 Limit Stop Level	–26 dB

Table D-6 Standard parameters for Spurious Emission (Cont'd)

Standard	Parameter Name	Setting
TELEC-T403 78MHz < 5.2GHz 5.3GHz (WLAN)	Spurious Result Type	Worst
	Spurious Fail Stop	Off
	Spurious Segment Switch1	On
	Spurious Segment Switch2	On
	Spurious Segment Switch3	Off
	Segment-1 Start Freq	30 MHz
	Segment-1 Stop Freq	4.916 GHz
	Segment-1 RBW	1 MHz
	Segment-1 VBW	1 MHz
	Segment-1 Sweep Time Switch	Auto
	Segment-1 Detection	Positive
	Segment-1 Limit Start Level	–26 dB
	Segment-1 Limit Stop Level	–26 dB
	Segment-2 Start Freq	5.584 GHz
	Segment-2 Stop Freq	26 GHz or Max Frequency
	Segment-2 RBW	1 MHz
	Segment-2 VBW	1 MHz
	Segment-2 Sweep Time Switch	Auto
	Segment-2 Detection	Positive
	Segment-2 Limit Start Level	–26 dB
	Segment-2 Limit Stop Level	–26 dB

Table D-6 Standard parameters for Spurious Emission (Cont'd)

Standard	Parameter Name	Setting
TELEC-T403 78MHz < 5.6GHz (WLAN)	Spurious Result Type	Worst
	Spurious Fail Stop	Off
	Spurious Segment Switch1	On
	Spurious Segment Switch2	On
	Spurious Segment Switch3	Off
	Segment-1 Start Freq	30 MHz
	Segment-1 Stop Freq	5.42 GHz
	Segment-1 RBW	1 MHz
	Segment-1 VBW	1 MHz
	Segment-1 Sweep Time Switch	Auto
	Segment-1 Detection	Positive
	Segment-1 Limit Start Level	–26 dB
	Segment-1 Limit Stop Level	–26 dB
	Segment-2 Start Freq	5.76 GHz
	Segment-2 Stop Freq	26 GHz or Max Frequency
	Segment-2 RBW	1 MHz
	Segment-2 VBW	1 MHz
	Segment-2 Sweep Time Switch	Auto
	Segment-2 Detection	Positive
	Segment-2 Limit Start Level	–26 dB
	Segment-2 Limit Stop Level	–26 dB

Table D-6 Standard parameters for Spurious Emission (Cont'd)

Standard	Parameter Name	Setting
TELEC-T403 5500MHz-5700MHz (WLAN)	Spurious Result Type	Worst
	Spurious Fail Stop	Off
	Spurious Segment Switch1	On
	Spurious Segment Switch2	On
	Spurious Segment Switch3	On
	Spurious Segment Switch4	On
	Spurious Segment Switch5	Off
	Segment-1 Start Freq	5.455 GHz
	Segment-1 Stop Freq	5.460 GHz
	Segment-1 RBW	1 MHz
	Segment-1 VBW	1 MHz
	Segment-1 Sweep Time Switch	Auto
	Segment-1 Detection	Positive
	Segment-1 Limit Start Level	–26.02 dB
	Segment-1 Limit Stop Level	–26.02 dB
	Segment-2 Start Freq	5.460 GHz
	Segment-2 Stop Freq	5.470 GHz
	Segment-2 RBW	1 MHz
	Segment-2 VBW	1 MHz
	Segment-2 Sweep Time Switch	Auto
	Segment-2 Detection	Positive
	Segment-2 Limit Start Level	–19.03 dB
	Segment-2 Limit Stop Level	–19.03 dB
	Segment-3 Start Freq	5.725 GHz
	Segment-3 Stop Freq	5.740 GHz
	Segment-3 RBW	1 MHz
	Segment-3 VBW	1 MHz
	Segment-3 Sweep Time Switch	Auto
	Segment-3 Detection	Positive
	Segment-3 Limit Start Level	–19.03 dB
	Segment-3 Limit Stop Level	–19.03 dB
	Segment-4 Start Freq	5.740 GHz
	Segment-4 Stop Freq	5.745 GHz
	Segment-4 RBW	1 MHz
	Segment-4 VBW	1 MHz
	Segment-4 Sweep Time Switch	Auto
	Segment-4 Detection	Positive
	Segment-4 Limit Start Level	–26.02 dB
	Segment-4 Limit Stop Level	–26.02 dB

Table D-6 Standard parameters for Spurious Emission (Cont'd)

Standard	Parameter Name	Setting
TELEC-T403 5510MHz-5670MHz (WLAN)	Spurious Result Type	Worst
	Spurious Fail Stop	Off
	Spurious Segment Switch1	On
	Spurious Segment Switch2	On
	Spurious Segment Switch3	On
	Spurious Segment Switch4	Off
	Segment-1 Start Freq	5.420 GHz
	Segment-1 Stop Freq	5.460 GHz
	Segment-1 RBW	1 MHz
	Segment-1 VBW	1 MHz
	Segment-1 Sweep Time Switch	Auto
	Segment-1 Detection	Positive
	Segment-1 Limit Start Level	–19.03 dB
	Segment-1 Limit Stop Level	–19.03 dB
	Segment-2 Start Freq	5.460 GHz
	Segment-2 Stop Freq	5.470 GHz
	Segment-2 RBW	1 MHz
	Segment-2 VBW	1 MHz
	Segment-2 Sweep Time Switch	Auto
	Segment-2 Detection	Positive
	Segment-2 Limit Start Level	–13.01 dB
	Segment-2 Limit Stop Level	–13.01 dB
	Segment-3 Start Freq	5.725 GHz
	Segment-3 Stop Freq	5.760 GHz
	Segment-3 RBW	1 MHz
	Segment-3 VBW	1 MHz
	Segment-3 Sweep Time Switch	Auto
	Segment-3 Detection	Positive
	Segment-3 Limit Start Level	–19.03 dB
	Segment-3 Limit Stop Level	–19.03 dB

Table D-6 Standard parameters for Spurious Emission (Cont'd)

Standard	Parameter Name	Setting
TELEC-T403 5530MHz-5610MHz (WLAN)	Spurious Result Type	Worst
	Spurious Fail Stop	Off
	Spurious Segment Switch1	On
	Spurious Segment Switch2	On
	Spurious Segment Switch3	On
	Spurious Segment Switch4	On
	Spurious Segment Switch5	Off
	Segment-1 Start Freq	5.340 GHz
	Segment-1 Stop Freq	5.460 GHz
	Segment-1 RBW	1 MHz
	Segment-1 VBW	1 MHz
	Segment-1 Sweep Time Switch	Auto
	Segment-1 Detection	Positive
	Segment-1 Limit Start Level	–19.03 dB
	Segment-1 Limit Stop Level	–19.03 dB
	Segment-2 Start Freq	5.4600 GHz
	Segment-2 Stop Freq	5.4695 GHz
	Segment-2 RBW	1 MHz
	Segment-2 VBW	1 MHz
	Segment-2 Sweep Time Switch	Auto
	Segment-2 Detection	Positive
	Segment-2 Limit Start Level	–13.01 dB
	Segment-2 Limit Stop Level	–13.01 dB
	Segment-3 Start Freq	5.4695 GHz
	Segment-3 Stop Freq	5.470 GHz
	Segment-3 RBW	1 MHz
	Segment-3 VBW	1 MHz
	Segment-3 Sweep Time Switch	Auto
	Segment-3 Detection	Positive
	Segment-3 Limit Start Level	–12.91 dB
	Segment-3 Limit Stop Level	–12.91 dB
	Segment-4 Start Freq	5.725 GHz
	Segment-4 Stop Freq	5.860 GHz
	Segment-4 RBW	1 MHz
	Segment-4 VBW	1 MHz
	Segment-4 Sweep Time Switch	Auto
	Segment-4 Detection	Positive
	Segment-4 Limit Start Level	–19.03 dB
	Segment-4 Limit Stop Level	–19.03 dB

Table D-6 Standard parameters for Spurious Emission (Cont'd)

Standard	Parameter Name	Setting
TELEC-T403 5570MHz (WLAN)	Spurious Result Type	Worst
	Spurious Fail Stop	Off
	Spurious Segment Switch1	On
	Spurious Segment Switch2	On
	Spurious Segment Switch3	On
	Spurious Segment Switch4	Off
	Segment-1 Start Freq	5.2360 GHz
	Segment-1 Stop Freq	5.4196 GHz
	Segment-1 RBW	1 MHz
	Segment-1 VBW	1 MHz
	Segment-1 Sweep Time Switch	Auto
	Segment-1 Detection	Positive
	Segment-1 Limit Start Level	–19.03 dB
	Segment-1 Limit Stop Level	–19.03 dB
	Segment-2 Start Freq	5.4196 GHz
	Segment-2 Stop Freq	5.4700 GHz
	Segment-2 RBW	1 MHz
	Segment-2 VBW	1 MHz
	Segment-2 Sweep Time Switch	Auto
	Segment-2 Detection	Positive
	Segment-2 Limit Start Level	–13.01 dB
	Segment-2 Limit Stop Level	–13.01 dB
	Segment-3 Start Freq	5.725 GHz
	Segment-3 Stop Freq	5.904 GHz
	Segment-3 RBW	1 MHz
	Segment-3 VBW	1 MHz
	Segment-3 Sweep Time Switch	Auto
	Segment-3 Detection	Positive
	Segment-3 Limit Start Level	–19.03 dB
	Segment-3 Limit Stop Level	–19.03 dB

TELEC-T405

Table D-6 Standard parameters for Spurious Emission (Cont'd)

Standard	Parameter Name	Setting
TELEC-T405 5MHz 4.9GHz (WLAN)	Spurious Result Type	Worst
	Spurious Fail Stop	Off
	Spurious Segment Switch1	On
	Spurious Segment Switch2	On
	Spurious Segment Switch3	On
	Spurious Segment Switch4	On
	Spurious Segment Switch5	Off
	Segment-1 Start Freq	30 MHz
	Segment-1 Stop Freq	4.87 GHz
	Segment-1 RBW	1 MHz
	Segment-1 VBW	1 MHz
	Segment-1 Sweep Time Switch	Auto
	Segment-1 Detection	Positive
	Segment-1 Limit Start Level	–27 dB
	Segment-1 Limit Stop Level	–27 dB
	Segment-2 Start Freq	4.87 GHz
	Segment-2 Stop Freq	4.9025 GHz
	Segment-2 RBW	1 MHz
	Segment-2 VBW	1 MHz
	Segment-2 Sweep Time Switch	Auto
	Segment-2 Detection	Positive
	Segment-2 Limit Start Level	–26 dB
	Segment-2 Limit Stop Level	–26 dB
	Segment-3 Start Freq	4.9575 GHz
	Segment-3 Stop Freq	5.27 GHz
	Segment-3 RBW	1 MHz
	Segment-3 VBW	1 MHz
	Segment-3 Sweep Time Switch	Auto
	Segment-3 Detection	Positive
	Segment-3 Limit Start Level	–26 dB
	Segment-3 Limit Stop Level	–26 dB
	Segment-4 Start Freq	5.27 GHz
	Segment-4 Stop Freq	5.342 GHz
	Segment-4 RBW	1 MHz
	Segment-4 VBW	1 MHz
	Segment-4 Sweep Time Switch	Auto
	Segment-4 Detection	Positive

Table D-6 Standard parameters for Spurious Emission (Cont'd)

Standard	Parameter Name	Setting
TELEC-T405 5MHz 4.9GHz (WLAN)	Segment-4 Limit Start Level	–37 dB
	Segment-4 Limit Stop Level	–37 dB
	Segment-5 Start Freq	5.342 GHz
	Segment-5 Stop Freq	26 GHz or Max Frequency
	Segment-5 RBW	1 MHz
	Segment-5 VBW	1 MHz
	Segment-5 Sweep Time Switch	Auto
	Segment-5 Detection	Positive
	Segment-5 Limit Start Level	–30 dB
	Segment-5 Limit Stop Level	–30 dB

Table D-6 Standard parameters for Spurious Emission (Cont'd)

Standard	Parameter Name	Setting
TELEC-T405 5MHz 5.0GHz (WLAN)	Spurious Result Type	Worst
	Spurious Fail Stop	Off
	Spurious Segment Switch1	On
	Spurious Segment Switch2	On
	Spurious Segment Switch3	On
	Spurious Segment Switch4	On
	Spurious Segment Switch5	Off
	Segment-1 Start Freq	30 MHz
	Segment-1 Stop Freq	4.99 GHz
	Segment-1 RBW	1 MHz
	Segment-1 VBW	1 MHz
	Segment-1 Sweep Time Switch	Auto
	Segment-1 Detection	Positive
	Segment-1 Limit Start Level	–27 dB
	Segment-1 Limit Stop Level	–27 dB
	Segment-2 Start Freq	4.99 GHz
	Segment-2 Stop Freq	5.0225 GHz
	Segment-2 RBW	1 MHz
	Segment-2 VBW	1 MHz
	Segment-2 Sweep Time Switch	Auto
	Segment-2 Detection	Positive
	Segment-2 Limit Start Level	–26 dB
	Segment-2 Limit Stop Level	–26 dB
	Segment-3 Start Freq	5.0675 GHz
	Segment-3 Stop Freq	5.27 GHz
	Segment-3 RBW	1 MHz
	Segment-3 VBW	1 MHz
	Segment-3 Sweep Time Switch	Auto
	Segment-3 Detection	Positive
	Segment-3 Limit Start Level	–26 dB
	Segment-3 Limit Stop Level	–26 dB
	Segment-4 Start Freq	5.27 GHz
	Segment-4 Stop Freq	5.342 GHz
	Segment-4 RBW	1 MHz
	Segment-4 VBW	1 MHz
	Segment-4 Sweep Time Switch	Auto
	Segment-4 Detection	Positive

Table D-6 Standard parameters for Spurious Emission (Cont'd)

Standard	Parameter Name	Setting
TELEC-T405 5MHz 5.0GHz (WLAN)	Segment-4 Limit Start Level	–37 dB
	Segment-4 Limit Stop Level	–37 dB
	Segment-5 Start Freq	5.342 GHz
	Segment-5 Stop Freq	26 GHz or Max Frequency
	Segment-5 RBW	1 MHz
	Segment-5 VBW	1 MHz
	Segment-5 Sweep Time Switch	Auto
	Segment-5 Detection	Positive
	Segment-5 Limit Start Level	–30 dB
	Segment-5 Limit Stop Level	–30 dB

Table D-6 Standard parameters for Spurious Emission (Cont'd)

Standard	Parameter Name	Setting
TELEC-T405 10MHz 4.9GHz (WLAN)	Spurious Result Type	Worst
	Spurious Fail Stop	Off
	Spurious Segment Switch1	On
	Spurious Segment Switch2	On
	Spurious Segment Switch3	On
	Spurious Segment Switch4	On
	Spurious Segment Switch5	Off
	Segment-1 Start Freq	30 MHz
	Segment-1 Stop Freq	4.87 GHz
	Segment-1 RBW	1 MHz
	Segment-1 VBW	1 MHz
	Segment-1 Sweep Time Switch	Auto
	Segment-1 Detection	Positive
	Segment-1 Limit Start Level	–27 dB
	Segment-1 Limit Stop Level	–27 dB
	Segment-2 Start Freq	4.87 GHz
	Segment-2 Stop Freq	4.895 GHz
	Segment-2 RBW	1 MHz
	Segment-2 VBW	1 MHz
	Segment-2 Sweep Time Switch	Auto
	Segment-2 Detection	Positive
	Segment-2 Limit Start Level	–26 dB
	Segment-2 Limit Stop Level	–26 dB
	Segment-3 Start Freq	4.965 GHz
	Segment-3 Stop Freq	5.27 GHz
	Segment-3 RBW	1 MHz
	Segment-3 VBW	1 MHz
	Segment-3 Sweep Time Switch	Auto
	Segment-3 Detection	Positive
	Segment-3 Limit Start Level	–26 dB
	Segment-3 Limit Stop Level	–26 dB
	Segment-4 Start Freq	5.27 GHz
	Segment-4 Stop Freq	5.342 GHz
	Segment-4 RBW	1 MHz
	Segment-4 VBW	1 MHz
	Segment-4 Sweep Time Switch	Auto
	Segment-4 Detection	Positive

Table D-6 Standard parameters for Spurious Emission (Cont'd)

Standard	Parameter Name	Setting
TELEC-T405 10MHz 4.9GHz (WLAN)	Segment-4 Limit Start Level	–37 dB
	Segment-4 Limit Stop Level	–37 dB
	Segment-5 Start Freq	5.342 GHz
	Segment-5 Stop Freq	26 GHz or Max Frequency
	Segment-5 RBW	1 MHz
	Segment-5 VBW	1 MHz
	Segment-5 Sweep Time Switch	Auto
	Segment-5 Detection	Positive
	Segment-5 Limit Start Level	–30 dB
	Segment-5 Limit Stop Level	–30 dB

Table D-6 Standard parameters for Spurious Emission (Cont'd)

Standard	Parameter Name	Setting
TELEC-T405 10MHz 5.0GHz (WLAN)	Spurious Result Type	Worst
	Spurious Fail Stop	Off
	Spurious Segment Switch1	On
	Spurious Segment Switch2	On
	Spurious Segment Switch3	On
	Spurious Segment Switch4	On
	Spurious Segment Switch5	Off
	Segment-1 Start Freq	30 MHz
	Segment-1 Stop Freq	4.99 GHz
	Segment-1 RBW	1 MHz
	Segment-1 VBW	1 MHz
	Segment-1 Sweep Time Switch	Auto
	Segment-1 Detection	Positive
	Segment-1 Limit Start Level	–27 dB
	Segment-1 Limit Stop Level	–27 dB
	Segment-2 Start Freq	4.99 GHz
	Segment-2 Stop Freq	5.015 GHz
	Segment-2 RBW	1 MHz
	Segment-2 VBW	1 MHz
	Segment-2 Sweep Time Switch	Auto
	Segment-2 Detection	Positive
	Segment-2 Limit Start Level	–26 dB
	Segment-2 Limit Stop Level	–26 dB
	Segment-3 Start Freq	5.075 GHz
	Segment-3 Stop Freq	5.27 GHz
	Segment-3 RBW	1 MHz
	Segment-3 VBW	1 MHz
	Segment-3 Sweep Time Switch	Auto
	Segment-3 Detection	Positive
	Segment-3 Limit Start Level	–26 dB
	Segment-3 Limit Stop Level	–26 dB
	Segment-4 Start Freq	5.27 GHz
	Segment-4 Stop Freq	5.342 GHz
	Segment-4 RBW	1 MHz
	Segment-4 VBW	1 MHz
	Segment-4 Sweep Time Switch	Auto
	Segment-4 Detection	Positive

Table D-6 Standard parameters for Spurious Emission (Cont'd)

Standard	Parameter Name	Setting
TELEC-T405 10MHz 5.0GHz (WLAN)	Segment-4 Limit Start Level	–37 dB
	Segment-4 Limit Stop Level	–37 dB
	Segment-5 Start Freq	5.342 GHz
	Segment-5 Stop Freq	26 GHz or Max Frequency
	Segment-5 RBW	1 MHz
	Segment-5 VBW	1 MHz
	Segment-5 Sweep Time Switch	Auto
	Segment-5 Detection	Positive
	Segment-5 Limit Start Level	–30 dB
	Segment-5 Limit Stop Level	–30 dB

Table D-6 Standard parameters for Spurious Emission (Cont'd)

Standard	Parameter Name	Setting
TELEC-T405 20MHz 4.9GHz OFDM (WLAN)	Spurious Result Type	Worst
	Spurious Fail Stop	Off
	Spurious Segment Switch1	On
	Spurious Segment Switch2	On
	Spurious Segment Switch3	On
	Spurious Segment Switch4	On
	Spurious Segment Switch5	Off
	Segment-1 Start Freq	30 MHz
	Segment-1 Stop Freq	4.87 GHz
	Segment-1 RBW	1 MHz
	Segment-1 VBW	1 MHz
	Segment-1 Sweep Time Switch	Auto
	Segment-1 Detection	Positive
	Segment-1 Limit Start Level	–27 dB
	Segment-1 Limit Stop Level	–27 dB
	Segment-2 Start Freq	4.87 GHz
	Segment-2 Stop Freq	4.875 GHz
	Segment-2 RBW	1 MHz
	Segment-2 VBW	1 MHz
	Segment-2 Sweep Time Switch	Auto
	Segment-2 Detection	Positive
	Segment-2 Limit Start Level	–26 dB
	Segment-2 Limit Stop Level	–26 dB
	Segment-3 Start Freq	5.025 GHz
	Segment-3 Stop Freq	5.27 GHz
	Segment-3 RBW	1 MHz
	Segment-3 VBW	1 MHz
	Segment-3 Sweep Time Switch	Auto
	Segment-3 Detection	Positive
	Segment-3 Limit Start Level	–26 dB
	Segment-3 Limit Stop Level	–26 dB
	Segment-4 Start Freq	5.27 GHz
	Segment-4 Stop Freq	5.342 GHz
	Segment-4 RBW	1 MHz
	Segment-4 VBW	1 MHz
	Segment-4 Sweep Time Switch	Auto
	Segment-4 Detection	Positive

Table D-6 Standard parameters for Spurious Emission (Cont'd)

Standard	Parameter Name	Setting
TELEC-T405 20MHz 4.9GHz OFDM (WLAN)	Segment-4 Limit Start Level	–37 dB
	Segment-4 Limit Stop Level	–37 dB
	Segment-5 Start Freq	5.342 GHz
	Segment-5 Stop Freq	26 GHz or Max Frequency
	Segment-5 RBW	1 MHz
	Segment-5 VBW	1 MHz
	Segment-5 Sweep Time Switch	Auto
	Segment-5 Detection	Positive
	Segment-5 Limit Start Level	–30 dB
	Segment-5 Limit Stop Level	–30 dB

Table D-6 Standard parameters for Spurious Emission (Cont'd)

Standard	Parameter Name	Setting
TELEC-T405 20MHz 4.9GHz DSSS/CCK (WLAN)	Spurious Result Type	Worst
	Spurious Fail Stop	Off
	Spurious Segment Switch1	On
	Spurious Segment Switch2	On
	Spurious Segment Switch3	On
	Spurious Segment Switch4	On
	Spurious Segment Switch5	Off
	Segment-1 Start Freq	30 MHz
	Segment-1 Stop Freq	4.87 GHz
	Segment-1 RBW	1 MHz
	Segment-1 VBW	1 MHz
	Segment-1 Sweep Time Switch	Auto
	Segment-1 Detection	Positive
	Segment-1 Limit Start Level	–27 dB
	Segment-1 Limit Stop Level	–27 dB
	Segment-2 Start Freq	4.87 GHz
	Segment-2 Stop Freq	4.88 GHz
	Segment-2 RBW	1 MHz
	Segment-2 VBW	1 MHz
	Segment-2 Sweep Time Switch	Auto
	Segment-2 Detection	Positive
	Segment-2 Limit Start Level	–26 dB
	Segment-2 Limit Stop Level	–26 dB
	Segment-3 Start Freq	5.020 GHz
	Segment-3 Stop Freq	5.27 GHz
	Segment-3 RBW	1 MHz
	Segment-3 VBW	1 MHz
	Segment-3 Sweep Time Switch	Auto
	Segment-3 Detection	Positive
	Segment-3 Limit Start Level	–26 dB
	Segment-3 Limit Stop Level	–26 dB
	Segment-4 Start Freq	5.27 GHz
	Segment-4 Stop Freq	5.342 GHz
	Segment-4 RBW	1 MHz
	Segment-4 VBW	1 MHz
	Segment-4 Sweep Time Switch	Auto
	Segment-4 Detection	Positive

Table D-6 Standard parameters for Spurious Emission (Cont'd)

Standard	Parameter Name	Setting
TELEC-T405 20MHz 4.9GHz DSSS/CCK (WLAN)	Segment-4 Limit Start Level	–37 dB
	Segment-4 Limit Stop Level	–37 dB
	Segment-5 Start Freq	5.342 GHz
	Segment-5 Stop Freq	26 GHz or Max Frequency
	Segment-5 RBW	1 MHz
	Segment-5 VBW	1 MHz
	Segment-5 Sweep Time Switch	Auto
	Segment-5 Detection	Positive
	Segment-5 Limit Start Level	–30 dB
	Segment-5 Limit Stop Level	–30 dB

Table D-6 Standard parameters for Spurious Emission (Cont'd)

Standard	Parameter Name	Setting
TELEC-T405 20MHz 5.0GHz OFDM (WLAN)	Spurious Result Type	Worst
	Spurious Fail Stop	Off
	Spurious Segment Switch1	On
	Spurious Segment Switch2	On
	Spurious Segment Switch3	On
	Spurious Segment Switch4	On
	Spurious Segment Switch5	Off
	Segment-1 Start Freq	30 MHz
	Segment-1 Stop Freq	4.99 GHz
	Segment-1 RBW	1 MHz
	Segment-1 VBW	1 MHz
	Segment-1 Sweep Time Switch	Auto
	Segment-1 Detection	Positive
	Segment-1 Limit Start Level	–27 dB
	Segment-1 Limit Stop Level	–27 dB
	Segment-2 Start Freq	4.99 GHz
	Segment-2 Stop Freq	4.995 GHz
	Segment-2 RBW	1 MHz
	Segment-2 VBW	1 MHz
	Segment-2 Sweep Time Switch	Auto
	Segment-2 Detection	Positive
	Segment-2 Limit Start Level	–26 dB
	Segment-2 Limit Stop Level	–26 dB
	Segment-3 Start Freq	5.125 GHz
	Segment-3 Stop Freq	5.27 GHz
	Segment-3 RBW	1 MHz
	Segment-3 VBW	1 MHz
	Segment-3 Sweep Time Switch	Auto
	Segment-3 Detection	Positive
	Segment-3 Limit Start Level	–26 dB
	Segment-3 Limit Stop Level	–26 dB
	Segment-4 Start Freq	5.27 GHz
	Segment-4 Stop Freq	5.342 GHz
	Segment-4 RBW	1 MHz
	Segment-4 VBW	1 MHz
	Segment-4 Sweep Time Switch	Auto
	Segment-4 Detection	Positive

Table D-6 Standard parameters for Spurious Emission (Cont'd)

Standard	Parameter Name	Setting
TELEC-T405 20MHz 5.0GHz OFDM (WLAN)	Segment-4 Limit Start Level	–37 dB
	Segment-4 Limit Stop Level	–37 dB
	Segment-5 Start Freq	5.342 GHz
	Segment-5 Stop Freq	26 GHz or Max Frequency
	Segment-5 RBW	1 MHz
	Segment-5 VBW	1 MHz
	Segment-5 Sweep Time Switch	Auto
	Segment-5 Detection	Positive
	Segment-5 Limit Start Level	–30 dB
	Segment-5 Limit Stop Level	–30 dB

Table D-6 Standard parameters for Spurious Emission (Cont'd)

Standard	Parameter Name	Setting
TELEC-T405 20MHz 5.0GHz DSSS/CCK (WLAN)	Spurious Result Type	Worst
	Spurious Fail Stop	Off
	Spurious Segment Switch1	On
	Spurious Segment Switch2	On
	Spurious Segment Switch3	On
	Spurious Segment Switch4	On
	Spurious Segment Switch5	Off
	Segment-1 Start Freq	30 MHz
	Segment-1 Stop Freq	4.99 GHz
	Segment-1 RBW	1 MHz
	Segment-1 VBW	1 MHz
	Segment-1 Sweep Time Switch	Auto
	Segment-1 Detection	Positive
	Segment-1 Limit Start Level	–27 dB
	Segment-1 Limit Stop Level	–27 dB
	Segment-2 Start Freq	4.99 GHz
	Segment-2 Stop Freq	5.00 GHz
	Segment-2 RBW	1 MHz
	Segment-2 VBW	1 MHz
	Segment-2 Sweep Time Switch	Auto
	Segment-2 Detection	Positive
	Segment-2 Limit Start Level	–26 dB
	Segment-2 Limit Stop Level	–26 dB
	Segment-3 Start Freq	5.120 GHz
	Segment-3 Stop Freq	5.27 GHz
	Segment-3 RBW	1 MHz
	Segment-3 VBW	1 MHz
	Segment-3 Sweep Time Switch	Auto
	Segment-3 Detection	Positive
	Segment-3 Limit Start Level	–26 dB
	Segment-3 Limit Stop Level	–26 dB
	Segment-4 Start Freq	5.27 GHz
	Segment-4 Stop Freq	5.342 GHz
	Segment-4 RBW	1 MHz
	Segment-4 VBW	1 MHz
	Segment-4 Sweep Time Switch	Auto
	Segment-4 Detection	Positive

Table D-6 Standard parameters for Spurious Emission (Cont'd)

Standard	Parameter Name	Setting
TELEC-T405 20MHz 5.0GHz DSSS/CCK (WLAN)	Segment-4 Limit Start Level	–37 dB
	Segment-4 Limit Stop Level	–37 dB
	Segment-5 Start Freq	5.342 GHz
	Segment-5 Stop Freq	26 GHz or Max Frequency
	Segment-5 RBW	1 MHz
	Segment-5 VBW	1 MHz
	Segment-5 Sweep Time Switch	Auto
	Segment-5 Detection	Positive
	Segment-5 Limit Start Level	–30 dB
	Segment-5 Limit Stop Level	–30 dB

Table D-6 Standard parameters for Spurious Emission (Cont'd)

Standard	Parameter Name	Setting
TELEC-T405 40MHz (WLAN)	Spurious Result Type	Worst
	Spurious Fail Stop	Off
	Spurious Segment Switch1	On
	Spurious Segment Switch2	On
	Spurious Segment Switch3	On
	Spurious Segment Switch4	Off
	Segment-1 Start Freq	30 MHz
	Segment-1 Stop Freq	4.840 GHz
	Segment-1 RBW	1 MHz
	Segment-1 VBW	1 MHz
	Segment-1 Sweep Time Switch	Auto
	Segment-1 Detection	Positive
	Segment-1 Limit Start Level	–27 dB
	Segment-1 Limit Stop Level	–27 dB
	Segment-2 Start Freq	5.06 GHz
	Segment-2 Stop Freq	5.270 GHz
	Segment-2 RBW	1 MHz
	Segment-2 VBW	1 MHz
	Segment-2 Sweep Time Switch	Auto
	Segment-2 Detection	Positive
	Segment-2 Limit Start Level	–26 dB
	Segment-2 Limit Stop Level	–26 dB
	Segment-3 Start Freq	5.27 GHz
	Segment-3 Stop Freq	5.342 GHz
	Segment-3 RBW	1 MHz
	Segment-3 VBW	1 MHz
	Segment-3 Sweep Time Switch	Auto
	Segment-3 Detection	Positive
	Segment-3 Limit Start Level	–37 dB
	Segment-3 Limit Stop Level	–37 dB
	Segment-4 Start Freq	5.342 GHz
	Segment-4 Stop Freq	26 GHz or Max Frequency
	Segment-4 RBW	1 MHz
	Segment-4 VBW	1 MHz
	Segment-4 Sweep Time Switch	Auto
	Segment-4 Detection	Positive
	Segment-4 Limit Start Level	–30 dB
	Segment-4 Limit Stop Level	–30 dB

FCC 15 407

Table D-6 Standard parameters for Spurious Emission (Cont'd)

Standard	Parameter Name	Setting
FCC 15 407 5.15GHZ (WLAN)	Spurious Result Type	Worst
	Spurious Fail Stop	Off
	Spurious Segment Switch1	On
	Spurious Segment Switch2	On
	Spurious Segment Switch3	Off
	Spurious Segment Switch4	Off
	Spurious Segment Switch5	Off
	Segment-1 Start Freq	30 MHz
	Segment-1 Stop Freq	5.15 GHz
	Segment-1 RBW	1 MHz
	Segment-1 VBW	1 MHz
	Segment-1 Sweep Time Switch	Auto
	Segment-1 Detection	Positive
	Segment-1 Limit Start Level	–27 dB
	Segment-1 Limit Stop Level	–27 dB
	Segment-2 Start Freq	5.25 GHz
	Segment-2 Stop Freq	6.00 GHz or Max Frequency
	Segment-2 RBW	1 MHz
	Segment-2 VBW	1 MHz
	Segment-2 Sweep Time Switch	Auto
	Segment-2 Detection	Positive
	Segment-2 Limit Start Level	–27 dB
	Segment-2 Limit Stop Level	–27 dB

Table D-6 Standard parameters for Spurious Emission (Cont'd)

Standard	Parameter Name	Setting
FCC 15.407 5.25GHZ TX (WLAN)	Spurious Result Type	Worst
	Spurious Fail Stop	Off
	Spurious Segment Switch1	On
	Spurious Segment Switch2	On
	Spurious Segment Switch3	Off
	Spurious Segment Switch4	Off
	Spurious Segment Switch5	Off
	Segment-1 Start Freq	30 MHz
	Segment-1 Stop Freq	5.15 GHz
	Segment-1 RBW	1 MHz
	Segment-1 VBW	1 MHz
	Segment-1 Sweep Time Switch	Auto
	Segment-1 Detection	Positive
	Segment-1 Limit Start Level	–27 dB
	Segment-1 Limit Stop Level	–27 dB
	Segment-2 Start Freq	5.35 GHz
	Segment-2 Stop Freq	6.00 GHz or Max Frequency
	Segment-2 RBW	1 MHz
	Segment-2 VBW	1 MHz
	Segment-2 Sweep Time Switch	Auto
	Segment-2 Detection	Positive
	Segment-2 Limit Start Level	–27 dB
	Segment-2 Limit Stop Level	–27 dB

Table D-6 Standard parameters for Spurious Emission (Cont'd)

Standard	Parameter Name	Setting
FCC 15.407 5.25GHZ DEVICES (WLAN)	Spurious Result Type	Worst
	Spurious Fail Stop	Off
	Spurious Segment Switch1	On
	Spurious Segment Switch2	On
	Spurious Segment Switch3	Off
	Spurious Segment Switch4	Off
	Spurious Segment Switch5	Off
	Segment-1 Start Freq	30 MHz
	Segment-1 Stop Freq	5.15 GHz
	Segment-1 RBW	1 MHz
	Segment-1 VBW	1 MHz
	Segment-1 Sweep Time Switch	Auto
	Segment-1 Detection	Positive
	Segment-1 Limit Start Level	–27 dB
	Segment-1 Limit Stop Level	–27 dB
	Segment-2 Start Freq	5.25 GHz
	Segment-2 Stop Freq	6.00 GHz or Max Frequency
	Segment-2 RBW	1 MHz
	Segment-2 VBW	1 MHz
	Segment-2 Sweep Time Switch	Auto
	Segment-2 Detection	Positive
	Segment-2 Limit Start Level	–27 dB
	Segment-2 Limit Stop Level	–27 dB

Table D-6 Standard parameters for Spurious Emission (Cont'd)

Standard	Parameter Name	Setting
FCC 15.407 5.47GHZ (WLAN)	Spurious Result Type	Worst
	Spurious Fail Stop	Off
	Spurious Segment Switch1	On
	Spurious Segment Switch2	On
	Spurious Segment Switch3	Off
	Spurious Segment Switch4	Off
	Spurious Segment Switch5	Off
	Segment-1 Start Freq	30 MHz
	Segment-1 Stop Freq	5.47 GHz
	Segment-1 RBW	1 MHz
	Segment-1 VBW	1 MHz
	Segment-1 Sweep Time Switch	Auto
	Segment-1 Detection	Positive
	Segment-1 Limit Start Level	–27 dB
	Segment-1 Limit Stop Level	–27 dB
	Segment-2 Start Freq	5.725 GHz
	Segment-2 Stop Freq	6.00 GHz or Max Frequency
	Segment-2 RBW	1 MHz
	Segment-2 VBW	1 MHz
	Segment-2 Sweep Time Switch	Auto
	Segment-2 Detection	Positive
	Segment-2 Limit Start Level	–27 dB
	Segment-2 Limit Stop Level	–27 dB

ETSI EN 301 893

Table D-6 Standard parameters for Spurious Emission (Cont'd)

Standard	Parameter Name	Setting
ETSI EN 301 893 V1.5.1 (WLAN)	Spurious Result Type	Worst
	Spurious Fail Stop	Off
	Spurious Segment Switch1	On
	Spurious Segment Switch2	On
	Spurious Segment Switch3	On
	Spurious Segment Switch4	On
	Spurious Segment Switch5	On
	Spurious Segment Switch6	On
	Spurious Segment Switch7	On
	Spurious Segment Switch8	On
	Spurious Segment Switch9	On
	Spurious Segment Switch10	On
	Spurious Segment Switch11	On
	Spurious Segment Switch12	On
	Spurious Segment Switch13	Off
	Segment-1 Start Freq	30 MHz
	Segment-1 Stop Freq	47 MHz
	Segment-1 RBW	100 kHz
	Segment-1 VBW	100 kHz
	Segment-1 Sweep Time Switch	Auto
	Segment-1 Detection	Positive
	Segment-1 Limit Start Level	–36 dB
	Segment-1 Limit Stop Level	–36 dB
	Segment-2 Start Freq	47 MHz
	Segment-2 Stop Freq	74 MHz
	Segment-2 RBW	100 kHz
	Segment-2 VBW	100 kHz
	Segment-2 Sweep Time Switch	Auto
	Segment-2 Detection	Positive
	Segment-2 Limit Start Level	–54 dB
	Segment-2 Limit Stop Level	–54 dB

Table D-6 Standard parameters for Spurious Emission (Cont'd)

Standard	Parameter Name	Setting
ETSI EN 301 893 V1.5.1 (WLAN)	Segment-3 Start Freq	74 MHz
	Segment-3 Stop Freq	87.5 MHz
	Segment-3 RBW	100 kHz
	Segment-3 VBW	100 kHz
	Segment-3 Sweep Time Switch	Auto
	Segment-3 Detection	Positive
	Segment-3 Limit Start Level	–36 dB
	Segment-3 Limit Stop Level	–36 dB
	Segment-4 Start Freq	87.5 MHz
	Segment-4 Stop Freq	118 MHz
	Segment-4 RBW	100 kHz
	Segment-4 VBW	100 kHz
	Segment-4 Sweep Time Switch	Auto
	Segment-4 Detection	Positive
	Segment-4 Limit Start Level	–54 dB
	Segment-4 Limit Stop Level	–54 dB
	Segment-5 Start Freq	118 MHz
	Segment-5 Stop Freq	174 MHz
	Segment-5 RBW	100 kHz
	Segment-5 VBW	100 kHz
	Segment-5 Sweep Time Switch	Auto
	Segment-5 Detection	Positive
	Segment-5 Limit Start Level	–36 dB
	Segment-5 Limit Stop Level	–36 dB
	Segment-6 Start Freq	174 MHz
	Segment-6 Stop Freq	230 MHz
	Segment-6 RBW	100 kHz
	Segment-6 VBW	100 kHz
	Segment-6 Sweep Time Switch	Auto
	Segment-6 Detection	Positive
	Segment-6 Limit Start Level	–54 dB
	Segment-6 Limit Stop Level	–54 dB

Table D-6 Standard parameters for Spurious Emission (Cont'd)

Standard	Parameter Name	Setting
ETSI EN 301 893 V1.5.1 (WLAN)	Segment-7 Start Freq	2300 MHz
	Segment-7 Stop Freq	4700 MHz
	Segment-7 RBW	100 kHz
	Segment-7 VBW	100 kHz
	Segment-7 Sweep Time Switch	Auto
	Segment-7 Detection	Positive
	Segment-7 Limit Start Level	–36 dB
	Segment-7 Limit Stop Level	–36 dB
	Segment-8 Start Freq	470 MHz
	Segment-8 Stop Freq	862 MHz
	Segment-8 RBW	100 kHz
	Segment-8 VBW	100 kHz
	Segment-8 Sweep Time Switch	Auto
	Segment-8 Detection	Positive
	Segment-8 Limit Start Level	–54 dB
	Segment-8 Limit Stop Level	–54 dB
	Segment-9 Start Freq	862 MHz
	Segment-9 Stop Freq	1.0 GHz
	Segment-9 RBW	100 kHz
	Segment-9 VBW	100 kHz
	Segment-9 Sweep Time Switch	Auto
	Segment-9 Detection	Positive
	Segment-9 Limit Start Level	–36 dB
	Segment-9 Limit Stop Level	–36 dB
	Segment-10 Start Freq	1.0 GHz
	Segment-10 Stop Freq	5.15 GHz
	Segment-10 RBW	1 MHz
	Segment-10 VBW	1 MHz
	Segment-10 Sweep Time Switch	Auto
	Segment-10 Detection	Positive
	Segment-10 Limit Start Level	–30 dB
	Segment-10 Limit Stop Level	–30 dB

Table D-6 Standard parameters for Spurious Emission (Cont'd)

Standard	Parameter Name	Setting
ETSI EN 301 893 V1.5.1 (WLAN)	Segment-11 Start Freq	5.35 GHz
	Segment-11 Stop Freq	5.47 GHz
	Segment-11 RBW	1 MHz
	Segment-11 VBW	1 MHz
	Segment-11 Sweep Time Switch	Auto
	Segment-11 Detection	Positive
	Segment-11 Limit Start Level	–30 dB
	Segment-11 Limit Stop Level	–30 dB
	Segment-12 Start Freq	5.75 GHz
	Segment-12 Stop Freq	Max Frequency
	Segment-12 RBW	1 MHz
	Segment-12 VBW	1 MHz
	Segment-12 Sweep Time Switch	Auto
	Segment-12 Detection	Positive
	Segment-12 Limit Start Level	–30 dB
	Segment-12 Limit Stop Level	–30 dB

ETSI 300 328

Table D-6 Standard parameters for Spurious Emission (Cont'd)

Standard	Parameter Name	Setting
ETSI 300 328 V1.7.1 (WLAN)	Spurious Result Type	Worst
	Spurious Fail Stop	Off
	Spurious Segment Switch1	On
	Spurious Segment Switch2	On
	Spurious Segment Switch3	On
	Spurious Segment Switch4	On
	Spurious Segment Switch5	On
	Spurious Segment Switch6	On
	Spurious Segment Switch7	On
	Spurious Segment Switch8	On
	Spurious Segment Switch9	On
	Spurious Segment Switch10	On
	Spurious Segment Switch11	On
	Spurious Segment Switch12	On
	Spurious Segment Switch13	Off
	Segment-1 Start Freq	30 MHz
	Segment-1 Stop Freq	1 GHz
	Segment-1 RBW	100 kHz
	Segment-1 VBW	30 kHz
	Segment-1 Sweep Time Switch	Auto
	Segment-1 Detection	Positive
	Segment-1 Limit Start Level	–36 dB
	Segment-1 Limit Stop Level	–36 dB
	Segment-2 Start Freq	1 GHz
	Segment-2 Stop Freq	1.8 GHz
	Segment-2 RBW	100 kHz
	Segment-2 VBW	30 kHz
	Segment-2 Sweep Time Switch	Auto
	Segment-2 Detection	Positive
	Segment-2 Limit Start Level	–30 dB
	Segment-2 Limit Stop Level	–30 dB

Table D-6 Standard parameters for Spurious Emission (Cont'd)

Standard	Parameter Name	Setting
ETSI 300 328 V1.7.1 (WLAN)	Segment-3 Start Freq	1.8 GHz
	Segment-3 Stop Freq	1.9 GHz
	Segment-3 RBW	100 kHz
	Segment-3 VBW	30 kHz
	Segment-3 Sweep Time Switch	Auto
	Segment-3 Detection	Positive
	Segment-3 Limit Start Level	–47 dB
	Segment-3 Limit Stop Level	–47 dB
	Segment-4 Start Freq	5.15 GHz
	Segment-4 Stop Freq	5.3 GHz
	Segment-4 RBW	100 kHz
	Segment-4 VBW	30 kHz
	Segment-4 Sweep Time Switch	Auto
	Segment-4 Detection	Positive
	Segment-4 Limit Start Level	–47 dB
	Segment-4 Limit Stop Level	–47 dB
	Segment-5 Start Freq	5.3 GHz
	Segment-5 Stop Freq	6.00 GHz or 12.75 GHz
	Segment-5 RBW	100 kHz
	Segment-5 VBW	30 kHz
	Segment-5 Sweep Time Switch	Auto
	Segment-5 Detection	Positive
	Segment-5 Limit Start Level	–30 dB
	Segment-5 Limit Stop Level	–30 dB

References are to page numbers.

Symbol and Numbers

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