Error Messages

Agilent Technologies
E8257D/67D PSG Signal Generators

This guide applies to the following signal generator models:
E8257D PSG Analog Signal Generator

E8267D PSG Vector Signal Generator

Due to our continuing efforts to improve our products through firmware and hardware revisions, signal generator design and operation may vary from descriptions in this guide. We recommend that you use the latest revision of this guide to ensure you have up-to-date product information. Compare the print date of this guide (see bottom of page) with the latest revision, which can be downloaded from the following website:

http://www.agilent.com/find/psg

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Introduction

If an error condition occurs in the signal generator, it is reported to both the front panel display error queue and the SCPI (remote interface) error queue. These two queues are viewed and managed separately.

NOTE   When there is an unviewed message in the front panel error queue, the ERR annunciator appears on the signal generator's display.
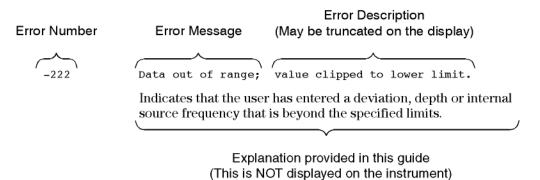

Characteristic	Front Panel Display Error Queue	SCPI Remote Interface Error Queue
Capacity (#errors)	30	30
Overflow Handling	Circular (rotating). Drops oldest error as new error comes in.	Linear, first-in/first-out. Replaces newest error with: -350, Queue overflow
Viewing Entries	Press: **Utility** > **Error Info** > **View Next** (or **Previous**) **Error Message**	Use SCPI query SYSTem:ERRor[:NEXT]?
Clearing the Queue	Press: **Utility** > **Error Info** > **Clear Error Queue(s)**	Power up Send a *CLS command Read last item in the queue
Unresolved Errors (errors that must be resolved. For example: unlock, avalanched, and hi/lo)	Re-reported after queue is cleared.	Re-reported after queue is cleared.

Error Message Format

When accessing error messages through the front panel display error queue, the error numbers, messages and descriptions are displayed on an enumerated ("1 of N") basis. When accessing error messages using the SCPI (remote interface) error queue, the error numbers and the <error_description> portions of the error query response are displayed on the host terminal.

In this guide, an explanation is generally included with each error to further clarify its meaning. The error messages in this guide are listed numerically. In cases where there are multiple listings for the same error number, the messages are in alphabetical order, excluding simple words like "the" and "it".

Error messages appear in the lower-left corner of the display as they occur.

Error Number

Error Message

Error Description
(May be truncated on the display)

−222

Data out of range; value clipped to lower limit.

Indicates that the user has entered a deviation, depth or internal source frequency that is beyond the specified limits.

Explanation provided in this guide
(This is NOT displayed on the instrument)

em1gh

Error Message Types

Events do not generate more than one type of error. For example, an event that generates a query error will not generate a device-specific, execution, or command error.

Query Errors (–499 to –400) indicate that the instrument's output queue control has detected a problem with the message exchange protocol described in IEEE 488.2, Chapter 6. Errors in this class set the query error bit (bit 2) in the event status register (IEEE 488.2, section 11.5.1). These errors correspond to message exchange protocol errors described in IEEE 488.2, 6.5. In this case:

- Either an attempt is being made to read data from the output queue when no output is either present or pending, or

- data in the output queue has been lost.

Device Specific Errors (–399 to –300 and 201 to 703) indicate that a device operation did not properly complete, possibly due to an abnormal hardware or firmware condition. These codes are also used for self-test response errors. Errors in this class set the device-specific error bit (bit 3) in the event status register (IEEE 488.2, section 11.5.1).

The <error_message> string for a *positive* error is not defined by SCPI. A positive error indicates that the instrument detected an error within the GPIB system, within the instrument's firmware or hardware, during the transfer of block data, or during calibration.

Execution Errors (–299 to –200) indicate that an error has been detected by the instrument's execution control block. Errors in this class set the execution error bit (bit 4) in the event status register (IEEE 488.2, section 11.5.1). In this case:

- Either a <PROGRAM DATA> element following a header was evaluated by the device as outside of its legal input range or is otherwise inconsistent with the device's capabilities, or

- a valid program message could not be properly executed due to some device condition.

Execution errors are reported *after* rounding and expression evaluation operations are completed. Rounding a numeric data element, for example, is not reported as an execution error.

Command Errors (–199 to –100) indicate that the instrument's parser detected an IEEE 488.2 syntax error. Errors in this class set the command error bit (bit 5) in the event status register (IEEE 488.2, section 11.5.1). In this case:

- Either an IEEE 488.2 syntax error has been detected by the parser (a control-to-device message was received that is in violation of the IEEE 488.2 standard. Possible violations include a data element that violates device listening formats or whose type is unacceptable to the device.), or

- an unrecognized header was received. These include incorrect device-specific headers and incorrect or unimplemented IEEE 488.2 common commands.

```
//////////////////////////////////////////////////////////////////////////
//////////////////////////////////////////////////////////////////////////
////                                                                    ////
////                                                                    ////
////              E8257D/67D                                            ////
////                                                                    ////
////                E R R O R                                           ////
////                                                                    ////
////              D O C U M E N T A T I O N                             ////
////                                                                    ////
////                                                                    ////
////                                                                    ////
////                                                                    ////
//////////////////////////////////////////////////////////////////////////
//////////////////////////////////////////////////////////////////////////
```

Error code: -100
Standard message: "Command error"

> "Unable to set new amplitude with UP/DN command."

>> The instrument is unable to obtain the necessary information to calculate the new amplitude in compatibility mode with the UP/DN command.

> "Unable to set new frequency with UP/DN command."

>> The instrument is unable to obtain the necessary information to calculate the new frequency in compatibility mode with the UP/DN command.

> "AM compatibility command is not available while in mixed modulation"
> "mode."

>> While in 8662 compatibility mode, AM is not available while mixed modulation is active (SP41 or SP42) To control the AM modulation first turn off mixed modulation mode (SP40).

> "Remote active function DN/UP not available."

>> In 8656/57 compatibility mode, either DN or UP was received via GPIB. These commands are not supported by the compatibility mode.

> "IL: Not a valid learn string."

>> In 8340 compatibility mode, IL was received via GPIB. The information in the input string is not valid.

> "Remote active function IS not available."

>> The instrument only supports the Increment Set (IS) command for Frequency (FR) and Amplitude (AP) in compatibility mode. All other uses of IS are invalid.

> "LO: No low bandwidth ALC mode allowed."

>> In 8656/57 compatibility mode, LO was received via GPIB. This command is not supported by the compatibility mode.

> "OA is not supported for the current active function."

In 8340/8757 compatibility mode, the OA query was received but it is not supported for the current active function.

"R0: No standby mode allowed."

In 8656/57 compatibility mode, R0 was received via GPIB. This command is not supported by the compatibility mode.

Error code: -102
Standard message: "Syntax error"

"Bad compatibility language character %s"

In 8656/57 compatibility mode, illegal language input was received. TODO: Parameter is a string containing illegal character.

"Bad compatibility language token %s"

In 8656/57 compatibility mode, a known command or termination specifier was received when it was not expected. For example, a termination specifier was received with no currently active function. TODO: Parameter is a string containing illegal token

----
Error code: -113
Standard message: "Undefined header"

"*** No custom message ***"

Used where an exact value was expected from a list of possibilities.

Error code: -151
Standard message: "Invalid string data"

"Filename too long."

The specified filename exceeds the maximum length.

"Header Description String is too long and was clipped to 32"
"characters."

This error occurs when trying to open a header file, the file does not match any known header format or does not exist. %s is the filename being accessed.

Error code: -200
Standard message: "Execution error"

"cannot write user file to Baseband generator."

There is a hardware error associated with the current CDMA format (cdma2000, WCDMA or 1xEV-DV). Try turning the current CDMA format mode off and on again to reset the baseband generator card. If the problem persists, report this error to Agilent Technologies.

"cannot transmit paging message to Baseband generator."

There is an error with the CDMA2000 or 1xEV-DV hardware. Try turning CDMA2000 or 1xEV-DV mode off and on again to reset the

baseband generator card. If the problem persists, report this error to Agilent Technologies.

"OPC Query Timeout Error: output signal is unsettled."
"*OPC? timed out waiting for the signal to settle."
"This could be caused by an unlocked or unleveled"
"condition."

OPC query timeout occurred due to the signal being persistently unsettled. This happens when the instrument is unlocked or unleveled and *OPC? is executed. Since this query shall not return 0 ("not ready"; according to IEEE 488.2) the system will report an execution error. If the unleveled or unlocked conditions are not present, the error may suggest a hardware problem.

Error code: -213
Standard message: "Init ignored"

"Cannot initiate sweep in manual mode."

The manual mode is on and therefore the instrument cannot sweep.

"Sweep is already continuously initiated."

The list/sweep is continuously initiated and sweeping, therefore the command is not legal according to SCPI.

"Sweep is already initiated."

The list/sweep is currently initiated and sweeping, therefore the command is not legal according to SCPI.

"Unable to sweep due to sweep"
"being in an error state."
"The sweep error should be fixed."

The number of list, power, and/or dwell points are in conflict, or a serious system error has occurred in list/sweep. A previous error report should have described the error that is stalling list/sweep.

"Sweep is off."

A list sweep was requested but list sweep is currently off.

Error code: -214
Standard message: "Trigger deadlock"

"*** No custom message ***"

A trigger source for the initiation of a measurement is set to GET and a subsequent measurement query is received. The measurement cannot begin until a GET is received, but the GET would cause an INTERRUPTED error.

Error code: -220
Standard message: "Parameter error"

"%s"
"The modulation type has been defaulted."

The specified file is not a modulation file type so the modulation
type has been defaulted.

"Channel Code exceeds spread factor."

The specified channelization code is too large. The channelization
code should always be at least one less than the spread factor.

"Data rate is not valid"

The data rate is not contained in the defined data rate table.

"Spread factor exceeds maximum"
"allowable spread factor"

The spread factor exceeds the maximum allowable spread factor. The
maximum allowable spread factor is currently 256.

"Spread factor not valid"

The spread factor should be a power of 2 that is between 4 and 256.

Error code: -221
Standard message: "Settings conflict"

"Burst cannot be on while using AM."

There is a hardware conflict for the burst envelope (I/Q menu) and
AM1/AM2. The most recently requested modulation will be turned on.
The previous modulation will be turned off.

"New wave shape changes"
"limit for internal frequency:"
"frequency changed to new limit."

When using the internal modulation source, the upper limit varies
for the different waveforms. If the user changes the waveform when
the internal source frequency is higher than that allowed for the
new waveform, the frequency for the source will be changed, and the
user informed of that change with this message.

"Ramp Sweep cannot be on during DCFM/DCPM Cal."

A DCFM/DCPM Cal cannot be done in Ramp Sweep Mode. This error is
reported when the user attempts to perform a DCFM/DCPM calibration
while sweeping.

"FM1/\x7fM1 value set less than FM2/\x7fM2 value."
"FM2/\x7fM2 changed to match FM1/\x7fM1 value."

The deviation of FM2/PM2 must always be less than or equal to the
deviation settings for FM1/PM1. This error will be reported to the
queue when FM2/PM2 is enabled and FM1/PM1 is also enabled and an
adjustment to either FM1/PM1 deviation causes the FM1 or PM1
deviation to be less than the FM2 or PM2 deviation. It will also be
reported when FM1/PM1 is being turned on, and the last FM2/PM2
deviation setting is greater than the current FM1/PM1 deviation
setting. In both cases the FM2/PM2 deviation will be adjusted to
match the FM1/PM1 deviation.

"FM2/\x7fM2 value set greater than FM1/\x7fM1 value."
"FM1/\x7fM1 changed to match FM2/\x7fM2 value."

FM2/PM2 deviation must be FM1/PM1 deviation. This error is reported when both FM1/PM1 and FM2/PM2 are enabled and an adjustment to either FM2/PM2 deviation causes the FM2 or PM2 deviation to be greater than the FM1 or PM1 deviation. It is also be reported as FM2/PM2 is turned on, and the last FM1/PM1 deviation setting is less than the current FM2/PM2 deviation setting. In both cases the FM1/PM1 deviation is adjusted to match the FM2/PM2 deviation.

"FM and PM not allowed."

There is a hardware conflict between FM and PM. The most recently requested modulation will be turned on. The previous modulation will be turned off.

"Sum of FM1/\x7fM1 and FM2/\x7fM2 deviation cannot"
"exceed maximum value."

The sum of FM1/PM1 and FM2/PM2 deviation must always be less than or equal to the maximum deviation value.

"FM/\x7fM deviation decreased to account for FM rate"
"and ramp sweep settings."

The deviation and rate settings for FM and PM are interrelated when ramp sweep is active. The deviation setting will be automatically set to an acceptable value when the rate moves outside an acceptable range.

"FM/\x7fM rate increased to account for deviation"
"and ramp sweep settings."

The deviation and rate settings for FM and PM are interrelated when ramp sweep is active. The rate setting will be automatically set to an acceptable value when the deviation moves outside an acceptable range.

"Ramp Sweep and FM/PM cannot be on at the same time."

The modulation type FM and Ramp Sweep Mode cannot be used at the same time. This error is reported when the user attempts to activate fm modulation while the sweep is activated. The mode that was most recently requested will be turned on and the mode that was on at the time will be turned off.

"I/Q and AM WB cannot be on at the same time."

The modulation types I/Q and AM WB cannot be used at the same time. This error is reported when the user attempts to activate one type of modulation while the other is activated. The modulation type that was most recently requested will be turned on and the modulation that was on at the time will be turned off.

"Selected digital modulation cannot be on"
"with pulse modulation."

There is a hardware conflict between the selected digital modulation and pulse modulation. The most recently requested modulation will be turned on. The previous modulation will be turned off.

"Internal burst cannot be on"
"with pulse modulation."

There is a hardware conflict between internal burst and pulse
modulation. The most recently requested modulation will be turned
on. The previous modulation will be turned off.

"Pulse period min setting adjusted for Freqs less"
"than and equal to 3.2 GHz."

There is a hardware conflict between the internal pulse modulation
and Freq settings. For Freqs less than or equal to 3.2 GHz the
period setting is limited to 200 nsec.

"Pulse period set less than pulse width value."
"Pulse width changed to match period value."

A pulse period has been entered that is smaller than the pulse
width. The instrument automatically adjusts the pulse period to
match the pulse width.

"Enabled modulation source conflicts with previously enabled"
"modulation source. Previous modulation disabled."

Three sources are shared by FM1/PM1, AM1/AM2, FM2/PM2, pulse and
burst envelope: INT, EXT1, and EXT2. Each source can be used by
only one modulation at a time. If a modulation requests a source
while it is in use by an active modulation, the first modulation is
turned off, and the second modulation is turned on.

"Reference marker not set for marker delta"
"measurements"

No reference marker was set in the analog sweep marker table
editor. A reference marker must be set before marker delta
measurements can be performed.

"The Digital Data state was forced off because there are no longer any "
"formats turned on or the digital module was set up in input mode and"
"the RT Custom format was turned off."

All formats were turned off, so the digital module has to be turned
off as well. In input mode, RT custom must be on, so if it is
turned off the digital module will be turned off as well.

"The Digital Data state could not be turned on because there is no"
"Format turned on. Please turn on a format before turning on the"
"digital module."

When turning the digital module on, a check is made to see if a
format is turned on. This error is generated when no format is
found.

"BCH Conflicts with another multiframe type."

*** No documentation ***

"TCH/FS Conflicts with another multiframe type."

*** No documentation ***

"BCH is allowed only in TimeSlot 0."

*** No documentation ***

"I/Q must be turned on before turning on Constant Phase."

  Constant Phase cannot work with out an I/Q signal to the modulator,
  so it does not make sense to turn Constant Phase on without I/Q on.

"EDGE BERT requires Multiframe PN Sequence in"
"Timeslot E field."

  An unsupported data type was encountered. The measurement timeslot
  requires a multiframe PN sequence in the E field.

"EDGE BERT requires Normal as Timeslot Type."

  An unsupported timeslot type was encountered. The measurement
  timeslot must be designated Normal.

"GSM BERT requires Multiframe PN Sequence in"
"Timeslot E field."

  An unsupported data type was encountered. The measurement timeslot
  requires a multiframe PN sequence in the E field.

"GSM BERT requires Normal as Timeslot Type."

  An unsupported timeslot type was encountered. The measurement
  timeslot must be designated Normal.

"Cannot use the Digital Bus while running over 100Msamples/sec. The"
"Digital Bus has been turned off."

  The Digital Bus cannot run over 100Msamples/sec. The Digital Bus
  has been turned off.

"Number of time slots cannot be 3."

  Number of time slots in a 1xEV-DV channel can be 1, 2 or 4.

"In the F-PDCCH overlaid mode, the slot positions of the F-PDCCH1"
"cannot be overlapped with F-PDCCH0s'. Check the slot position again."

  In the F-PDCCH overlaid mode, the slot positions of the F-PDCCH1
  cannot be overlapped with F-PDCCH0s'. Check the slot position
  again.

"In the F-PDCCH overlaid mode, the relative power of the F-PDCCH1 is"
"different from the F-PDCCH0's."

  In the F-PDCCH overlaid mode, the relative power of the F-PDCCH1
  must be same as the F-PDCCH0's.

"In the F-PDCH0 and 1, the occupied number of walsh codes at"
"timeslot#%i cannot exceed 28. Decrease the number of walsh codes."

  In the F-PDCH0 and 1, the occupied number of walsh codes must not
  exceed 28. The number of walsh codes should be decreased.

"The %s packet#%i subpacket#%i should not be overlapped by another"
"subpacket."

  Each subpackets should not be overlapped in the channel. Check the
  slot position again.

"The frequency spacing has been limited by the tone alignment."

The frequency spacing and alignment must be such that the 80 MHz of bandwidth is not exceeded and that no tone is more than 40 MHz from the carrier.

"The frequency spacing has been limited by the number of carriers."

The frequency spacing and the number of carriers must be such that the bandwidth limitation of the baseband generator is not exceeded.

"The frequency spacing has been limited by the number of tones."

The frequency spacing and the number of tones must be such that the 80 MHz of bandwidth is not exceeded. If FS_MAX is the maximum frequency spacing in MHz and N is the number of tones, then {FS_MAX <= (80) / (N - 1)}.

"ARB marker RF blanking cannot be on with pulse modulation."

There is a hardware conflict between pulse modulation and ARB marker to RF blanking. ARB marker to RF blanking will be turned off.

"You may only set up channels that are part"
"of your current radio configuration."

An attempt was made to enter a value or setting for a channel that is not supported in the current radio configuration. The R-FCH and R-SCH are supported in all the radio configurations for reverse link. However, the values or settings allowed for these channels vary according to the radio configuration used. Refer to the Option 201 User's and Programming Guide to determine the supported channels by radio configuration.

"The current paging indicator (PI) is not valid for"
"2400 bps data rate. The PI has been changed to 0,"
"the default."

QPCH channel with a data rate of 2400 bps only supports up to 191 paging indicators. The PI has been set to 0 (default value) to remain valid for this data rate.

"cannot update Baseband generator with Even Second Delay."

There is an error with the CDMA2000 or 1xEV-DV hardware. Try turning the CDMA2000 or 1xEV-DV mode off and on again to reset the baseband generator card. If the problem persists, report this error to Agilent Technologies.

"You may not set Forward Link values while in"
"Reverse Link. Reset Link Direction to proceed."

Values or settings for forward link were entered while in reverse link. If forward link is the desired link direction, set the ESG to forward link first, and then re-enter the values or settings. However, if reverse link is the correct link direction, consult the SCPI or key references for the correct values or settings to enter.

"The requested operation is not allowed in"
"a two box %s setup."

Certain operations, such as setting to equal powers, are not allowed in a two-ESG setup. A two-ESG setup exists when either

Voltage Other ESG or Percent Power Other ESG are greater than 0.0.

"External data cannot be selected for multiple"
"channels. PN9 is automatically selected for %s."

    The current hardware only supports one external data source at any given time. The <CHANNEL NAME> data source has been changed to PN9, the default data source.

"At least one of the channels must be on in order"
"to turn the mode on. %s has been turned off."

    To output a valid RF signal, at least one channel must be turned on. Since all channels are off, CDMA2000 or 1xEV-DV mode has been turned off to avoid undefined behavior.

"RACH is only defined for Radio Configuration 1 and"
"2. You must set one of these Radio Configurations"
"before configuring or using this code channel."

    An attempt was made to setup the R-ACH while in a radio configuration that does not support this channel. This channel is only available in RC1 and RC2. If the R-ACH is the desired channel, you must change to the proper radio configuration before continuing.

"RCCCH is only defined for Radio Configuration 3 and"
"4. You must set one of these Radio Configurations"
"before configuring or using this code channel."

    An attempt was made to setup the R-CCCH while in a radio configuration that does not support this channel. This channel is only available in RC3 and RC4. If the R-CCCH is the desired channel, you must change to the proper radio configuration before continuing.

"RDCCH is only defined for Radio Configuration 3 and"
"4. You must set one of these Radio Configurations"
"before configuring or using this code channel."

    An attempt was made to setup the R-DCCH while in a radio configuration that does not support this channel. This channel is only available in RC3 and RC4. If the R-DCCH is the desired channel, you must change to the proper radio configuration before continuing.

"REACH is only defined for Radio Configuration 3 and"
"4. You must set one of these Radio Configurations"
"before configuring or using this code channel."

    An attempt was made to setup the R-EACH while in a radio configuration that does not support this channel. This channel is only available in RC3 and RC4. If the R-EACH is the desired channel, you must change to the proper radio configuration before continuing.

"RPICH is only defined for Radio Configuration 3 and"
"4. You must set one of these Radio Configurations"
"before configuring or using this code channel."

    An attempt was made to setup the R-PICH while in a radio configuration that does not support this channel. This channel is only available in RC3 and RC4. If the R-PICH is the desired

        channel, you must change to the proper radio configuration before
        continuing.

"RSCH1 is only defined for Radio Configuration 3 and"
"4. You must set one of these Radio Configurations"
"before configuring or using this code channel."

        The command attempted to enter a value or setting for the R-SCH1 in
        RC3 or RC4. If this is the correct R-SCH, change to the desired
        radio configuration and resend the command. If not, select the
        command for the desired R-SCH. Use the following list to determine
        the correct R-SCH command to use: R-SCH: Used in RC1 and RC2
        R-SCH1: Used in RC3 and RC4 for Channel 4 R-SCH2: Used in RC3 and
        RC4 for Channel 2

"RSCH2 is only defined for Radio Configuration 3 and"
"4. You must set one of these Radio Configurations"
"before configuring or using this code channel."

        The command attempted to enter a value or setting for the R-SCH in
        RC3 or RC4. If this is the correct R-SCH, change to the desired
        radio configuration and resend the command. If not, select the
        command for the desired R-SCH. Use the following list to determine
        the correct R-SCH command to use: R-SCH: Used in RC1 and RC2
        R-SCH1: Used in RC3 and RC4 for Channel 4 R-SCH2: Used in RC3 and
        RC4 for Channel 2

"RSCH is only defined for Radio Configuration 1 and"
"2. You must set one of these Radio Configurations"
"before configuring or using this code channel."

        The command attempted to enter a value or setting for the R-SCH in
        RC1 or RC2. If this is the correct R-SCH, change to the desired
        radio configuration and resend the command. If not, select the
        command for the desired R-SCH. Use the following list to determine
        the correct R-SCH command to use: R-SCH: Used in RC1 and RC2
        R-SCH1: Used in RC3 and RC4 for Channel 4 R-SCH2: Used in RC3 and
        RC4 for Channel 2

"RSCH with Turbo coding is only available in "
"Radio Configurations 3 and 4. You must set one of"
"these Radio Configurations to proceed"

        Turbo coding is only allowed in R-SCH in RC3 and RC4. If turbo
        coding is needed, change to the appropriate radio configuration,
        set up the proper channels in addition to the R-SCH and turn on
        turbo coding.

"You may not set Reverse Link values while in"
"Forward Link. Reset Link Direction to proceed."

        Values or settings for reverse link were entered while in forward
        link. If reverse link is the desired link direction, set the ESG to
        reverse link first, and then re-enter the values or settings.
        However, if forward link is the correct link direction, consult the
        SCPI or key references for the correct values or settings to enter.

"Unsupported configuration for Pilot Gating."
"Pilot Gating can only be used for the Pilot alone"
"or in conjunction with REACH or RCCCH."

        Changing the R-PICH gating from full is only allowed in three
        channel structures: R-PICH, R-PICH with the R-CCCH or R-PICH with

        the R-EACH.

"Walsh length invalid! Changed to default Walsh number"

        The current Walsh length is invalid for the current data rate. For
        data rate 2X and above, doubling the rate will half the walsh
        space. The channel walsh number has been changed to the highest
        valid Walsh code.

"The command cannot be executed when no TDMA or Real Time Custom mode"
"is on."

        The command (e.g. MEM:DATA:PRAM:BLOCK) can be executed only when a
        TDMA mode (or Real Time Custom) is not on. Turn the desired mode on
        and then resend the command.

"RSCH2 is only defined for Radio Configuration 3 and"
"4. You must set one of these Radio Configurations"
"before configuring or using this code channel."

        *** No documentation ***

"Continuous protocol timeslots cannot"
"be turned off."

        A continuous protocol timeslot is switched off while in TETRA mode.
        When a continuous protocol has been selected for a timeslot in
        TETRA mode, all of the timeslots must be switched on.

"All channels are off. Could not perform operation."

        This error is reported when an attempt is made to balance powers
        when all channels are off.

"Downlink and Uplink setting conflict. All"
"selected Downlink timeslots are now set"
"to Uplink."

        With uplink selected for one or more timeslots, a downlink timeslot
        was selected. For NADC and PDC digital modulation for bursted data,
        all traffic channels must be either uplink or downlink. To continue
        data transmission, all downlink timeslots have been changed to.
        Uplink.

"Cannot have more than 4 EDGE multiframe timeslots on"
"simultaneously. The selected timeslot has been turned"
"off."

        An unsupported timeslot type was encountered. EDGE doesn't support
        more than 4 multiframe timeslots being turned on.

"FSK frequency deviation has been limited by"
"the sample rate."

        The Arb Sample Rate must be at least 16 times the Digital Mod FSK
        frequency deviation. If this cannot be achieved without exceeding
        the maximum sample rate for the current settings, the FSK frequency
        deviation will be limited.

"FSK frequency deviation has been limited by the"
"symbol rate."

        The maximum FSK frequency deviation depends on the symbol rate.

"The format must be on and fully configured for"
"use before being specified as the secondary frame."
"The secondary frame is unchanged."

    The secondary frame setup must be completely configured as a
    stand-alone setup before being selected for use as a secondary
    frame. It must have a format, framing, and at least one timeslot
    turned on.

"Frame repeat changed to continuous."

    Single is not a valid repeat setting for an external data source.

"PHS or TETRA scramble cannot be on when"
"the currently selected modulation type has more"
"than 2 bits per symbol."

    The baseband generator provides modulations with more than 2
    bits/symbol. For these modulations, PHS and TETRA scramble are
    disabled.

"All timeslots with the payload (E) fields set to EXT"
"have been reset to PN9. EXT is incompatible with"
"combined EDGE/GSM mode."

    EXT is incompatible with combined EDGE/GSM mode.

"Doppler shift has been reduced to reflect the new frequency."

    The requested frequency is incompatible with the current value of
    the Doppler shift. The Doppler shift has been set to the maximum
    value compatible with the new frequency.

"DCH data block is too large. Maximum size of Block Set (= Block Size "
"* number of Blocks) is 200000. Reduce Block Size or number of blocks."

    The 3GPP standard defines the transport block set size as 0 to
    200000

"Invalid Channelization code setting. Change Channelization code"
"setting of physical channels to be orthogonal."

    OVSF codes require that physical channel code settings be
    orthogonal.

"IR buffer size is too small."

    The 3GPP standard defines the transport block set size as 0 to
    200000

"DCH generation is not support with a DPCH slot format of 16."

    DCH generation is not support with a DPCH slot format of 16.

"Cannot turn AWGN on, option 403 is required for any"
"AWGN functionality"

    Option 403 (AWGN) is required to enable the AWGN portion of option
    418 (HSDPA).

"Illegal setting of DCH state. Transport channels(DCHs) must be turned "
"on sequentially."

Transport channels must be turned on sequentially. For example, channels 1,2 and 3 must be turned on before channels 4 through 6 can be activated.

"Could not perform File Header operation while"
"format is off: %s."

This error is reported when a file header command is tried when the format is not on. File Headers can only be modified while the format the file is associated with is turned on. %s is a string describing the Format.

"New hardware settings can no longer"
"support the last IQ Out selection."
"IQ Out defaulted to Source 1."

Based on new settings in the vector modulation system, a previous setting related to the IQ Output (rear panel) is no longer valid. The setting will be default to the input selected for Source 1.

"I/Q and Ramp Sweep cannot be on at the same time."
"%s"

The Ramp Sweep and I/Q modulation cannot be used at the same time. This error is reported when the user attempts to activate one feature while the other one in conflict is activated. If Ramp Sweep is turned on then the I/Q feature will be turned off. If I/Q is turned on then Ramp Sweep will be changed to Step Sweep.

"At least one of the channels must be on in order"
"to turn the mode on. %s has been turned off."

CDMA2000 or 1xEV-DV requires at least one channel to be on to turn the mode on. Having at least one channel on in the current link direction, and in the case of reverse link the current Operating Mode, allows the mode to be turned on.

"Option 403 is required to be able to turn Noise on."

Option 403 (AWGN) is required to enable the AWGN portion of option 401 (Realtime cdma2000) or option 414 (Realtime 1xEV-DV).

"Carrier formats must be the same."

All digital modulation multicarriers must be the same format.

"The current data rate is not valid for this"
"radio configuration. Data rate changed to the"
"default rate."

The new radio configuration does not support the current data rate. The data rate is changed to the default rate for the new radio configuration, which is 1X for F-FCH and 2X for F-SCH.

"Only ONE user file can be selected for all traffic"
"channels. %s is now using: %s file."

All traffic channels (F-FCH, F-SCH) can use a user file as a data source, but they must all use the same user file. The <CHANNEL NAME> data has been changed to <FILE NAME> file.

"The current RC or data rate does not support"

"turbo coding. Turbo Coding has been turned off."

   Either specification or hardware does not support turbo coding for
   this data rate. Turbo coding is now turned off. If turbo coding is
   desired, select a valid data rate and then turn turbo coding on.
   For F-SCH channels, data rates below 14.4 kbps and the highest data
   rates for each RC are not valid for turbo coding.

"Continuous and Discontinuous setting"
"conflict. All selected Continuous"
"timeslots are now set to Discontinuous."

   Indicates that while in TETRA mode an attempt has been made to
   simultaneously assign continuous and discontinuous protocols to the
   timeslots. Continuous and discontinuous protocols cannot coexist in
   TETRA mode. If a discontinuous protocol is selected for any
   timeslot, all timeslots' protocols are changed to discontinuous
   protocols.

"Discontinuous and Continuous setting"
"conflict. All selected Discontinuous"
"timeslots are now set to Continuous."

   Indicates that while in TETRA mode an attempt has been made to
   simultaneously assign discontinuous and continuous protocols to the
   timeslots. Discontinuous and continuous protocols cannot coexist in
   TETRA mode. If a continuous protocol is selected for any timeslot,
   all timeslots' protocols are changed to continuous protocols.

"Pattern repeat is changed to continuous"
"because data source is external."

   Single is not a valid repeat setting for an external data source.

"Clipping not allowed for CDMA2000 or 1xEV-DV reverse"
"radio configurations 1 and 2. Clipping set to 100%%."

   The clipping function is not available for the CDMA2000 or 1xEV-DV
   reverse link radio configurations 1 and 2. The value is
   automatically reset to 100% (no clipping).

"Cannot select uplink protocols while"
"the control frame is on. Selection"
"changed to custom."

   Indicates that in TETRA mode, an attempt has been made to select
   uplink protocols while the control frame is switched on. TETRA
   requires that the control frame be switched off in order to select
   uplink protocols.

"Cannot have uplink protocols while"
"the control frame is on. Frames 1-17"
"timeslots changed to downlink."

   Indicates that, in TETRA mode, some of the timeslots are set to
   uplink. When the control frame is turned on in TETRA, all timeslots
   in all frames must use downlink protocols. The instrument enforces
   this by reconfiguring the timeslots that are not using downlink
   protocols when the control frame is switched on.

"Turbo Coding is not available in the current "
"configuration. Please review your manual for "
"valid configurations."

Turbo Coding is not available in the current
configuration. Please review your manual for
valid configurations.

"QPCH and FFCH/OCNS cannot be on at the same"
"time. FFCH/OCNS has been turned off."

QPCH is generated using both channel 3 and 4. Channel 4 is now used
to generate QPCH. Channel 3 can no longer generate FFCH/OCNS.
Therefore, FFCH/OCNS must be turned off.

"FFCH/OCNS and QPCH cannot be on at the same"
"time. QPCH has been turned off."

QPCH is generated using both channel 3 and 4. Channel 3 has been
turned on to generate FFCH or OCNS. Channel 4 can no longer
generate QPCH. Therefore, QPCH must be turned off.

"Uplink and Downlink setting conflict. All"
"selected Uplink timeslots are now set"
"to Downlink."

An Uplink timeslot type has been selected while another timeslot(s)
has Downlink selected. In NADC and PDC digital modulation for
bursted data, only either Uplink (base to mobile) or Downlink
(mobile to base) Traffic Channel type can be selected for all
timeslots at any one moment. To continue data transmission, all
Uplink timeslots have been changed to the Downlink configuration.

"User FSK file has deviations which are"
"incompatible with the current symbol rate."
"The modulation type has been defaulted."

A frequency in the selected user FSK file exceeds the maximum
possible deviation for the current symbol rate. The default
modulation type for the mode has been selected to resolve the
conflict.

"3GPP Uplink AWGN refers PRACH Message Part, but"
"the Message Part is set to off."

3GPP Uplink AWGN refers PRACH Message Part as E ref, but the
Message Part is set to off. To avoid this, set the Message Part to
be on.

"auto power search was aborted due to invalid setting."
"Check the %s parameters, "
"then press APPLY to rerun auto power search."

Auto power search is aborted for the reason described in error
message. Check the setting, then press APPLY to run Auto power
search.

"Block size has been adjusted to match"
"BlockSetSize / NumberOfBlocks."

Block size has been adjusted to match BlockSetSize /
NumberOfBlocks.

"Block size has been adjusted to match"
"BlockSetSize / NumberOfBlks. But block size does not"
"match the BlockSetSize exactly. Try another value."

        Block size has been adjusted to match
        BlockSetSize / NumberOfBlks. But block size is not match to the
        value exactly, please try another value.

"Block size of DCH%d must match to "
"BlockSetSize / NumberOfBlks."

        Block size must match to BlockSetSize / NumberOfBlks. The pointed
        out DCH should be re-checked.

"conflict between code = %i,data rate = %i sps"
"and code = %i, data rate = %i sps"

        A channelization code conflict exists between two codes, each at
        its respective data rate. Parameters 1 and 3 are channelization
        codes. Parameters 2 and 4 are data rates.

"conflict between code = %i, spread factor = %i"
"and code = %i, spread factor = %i"

        A channelization code conflict exists between two codes, each at
        its respective spread factor. Parameters 1 and 3 are channelization
        codes. Parameters 2 and 4 are spread factors.

"Compressed Mode should be off when"
"%s."

        Compressed Mode should be off when
        any antenna is selected as Transmit Diversity
        or OutOfSyncTest is on
        or Transport Position is Flexible.

"Only and first DPCH must be on (DPCH1)"
"when activating Compressed Mode."

        Currently, only Single and first DPCH are supported in Downlink
        compressed mode.

"Data of DPDCH must not be TrCH"
"when method of active Compressed Mode"
"is Higher Layer."

        *** No documentation ***

"TGD parameter is not set to Undefined or 0."
"TGPL1 * 15 >= TGSN + TGL2 + TGD"
"TGD parameter is set to Undefined or 0."
"TGPL1 * 15 >= TGSN + TGL1"

        TGPL1 is the duration of transmission gap pattern 1. The gap
        pattern consists of TGSN, TGD, TGL1 and TGL2. The gap pattern can't
        be generated if the TGPL1 value is too short. TGPL1 should meet the
        condition as below; TGD parameter is not set to Undefined or 0.
        TGPL1 * 15 >= TGSN + TGL2 + TGD TGD parameter is set to Undefined
        or 0. TGPL1 * 15 >= TGSN + TGL1

"TGD parameter is not set to Undefined or 0."
"TGPL2 * 15 >= TGSN + TGL2 + TGD"
"TGD parameter is set to Undefined or 0."
"TGPL2 * 15 >= TGSN + TGL1"

        TGPL2 is the duration of transmission gap pattern 2. The gap

          pattern consists of TGSN, TGD, TGL1 and TGL2. The gap pattern can't
          be generated if the TGPL2 value is too short. TGPL2 should meet the
          condition as below; TGD parameter is not set to Undefined or 0.
          TGPL2 * 15 >= TGSN + TGL2 + TGD TGD parameter is set to Undefined
          or 0. TGPL2 * 15 >= TGSN + TGL1

"Slot Format #1 does not allow CM by Puncturing."

          Slot Format #1 does not allow CM by Puncturing.

"Slot Format #16 does not allow CM by SF/2."

          Slot Format #16 does not allow CM by SF/2.

"The DCH which is referenced by 3GPP Uplink AWGN must be on."

          The DCH which is referenced by AWGN Eb Ref is off. To avoid this,
          set the DCH to on.

"Only PN9 and PN15 can be selected"
"when slot format is 16."

          Only PN9 and PN15 can be selected when slot format is 16.

"At least one of the channels must be on in order"
"to turn the mode on. WCDMA has been turned off."

          To output a valid RF signal, at least one channel must be turned
          on. Since all channels are off, WCDMA mode has been turned off to
          avoid undefined behavior.

"In fixed position the block size must be either 0 or"
"equal to block set size. The block size has been set"
"to the block set size."

          In fixed position mode the block size must be equal to either the
          block set size or 0.

"Invalid Channel code. Channel code has been changed"
"to the highest Channel code for this symbol rate"

          An attempt was made to input a channelization code beyond the
          limitations imposed by the symbol rate. The channelization code is
          reset to the highest allowable code for the present symbol rate
          setting.

"Invalid Channel Code on DPCH%d. The channel"
"code has been changed from %d to %d"

          The Channel Code is limited by the Slot Format. Parameter 1 is
          channel number, Parameter 2 and 3 are channelization codes.

"Invalid Channel Code on OCNS%d. The channel"
"code has been changed from %d to %d"

          The Channel Code is limited by the Symbol Rate. Parameter 1 is
          channel number, Parameter 2 and 3 are channelization codes.

"The state of AWGN's Ec Reference has been turned off."
"Ec/No information is no longer valid. Please choose a"
"valid EcRef channel type."

          EcRef must be selected as a channel in the 'on' state. Therefore

since the state of the channel is now 'off', Ec/No values displayed
will be invalid.

"3GPP Uplink PRACH MessageTotalPower can be set only"
"when Total is selected as PowerSetUpMode. Pp-m can"
"be set only when Pp-m is selected."

    3GPP Uplink PRACH MessageTotalPower can be set only when Total is
selected as Power SetUp Mode. Pp-m can be set only when Pp-m is
selected as Power SetUp Mode.

"Nfirst1 - Nlast1 <= 6"

    GAP1 is a single frame method gap that is greater than 7 slots
long. DTX slots per frame should be less than 8.

"Nfirst1 >= 8 or Nlast1 <= 6 or"
"When TGD is not set to Undefined or 0, Nfirst_1 + TGD >= 30"

    GAP1 is a double frame method gap; the DTX slots per frame is > 7.
DTX slots per frame should be less than 8.

"Nfirst2 - Nlast2 <= 6"

    GAP2 is a single frame method gap that is greater than 7 slots
long. DTX slots per frame should be less than 8.

"Nfirst2 >= 8 or Nlast2 <= 6"

    GAP2 is a double frame method gap; the DTX slots per frame is > 7.
DTX slots per frame should be less than 8.

"OutOfSyncTest should be off when any antenna is selected as Transmit"
"Diversity or Compressed Mode is on."

    Compressed Mode should be off when any antenna is selected as
Transmit Diversity or OutOfSyncTest is on.

"Cannot turn AWGN on, option 403 is required for any"
"AWGN functionality"

    Option 403 (AWGN) is required to enable the AWGN portion of option
400 (WCDMA).

"The number of Preambles exceeds that allowed at the current Max Power "
"setting. The number of Preambles has been set to %d."

    The number of preamble steps cannot be greater than what is allowed
by the difference between the initial and max power settings. The
following equation is used to calculate the max number of preamble
steps: # of preamble steps = ((maxPower-initPower)/rampStepSize)+1

"The puncture rate is > 60 on %s channel %d,"
"increase the %s Slot Format or edit the %s"
"fields to reduce the puncture percent."

    The puncture rate of each TrCH should be smaller than 60%, which is
displayed on UI screen as "Max Puncture" value. Max Puncture is
calculated as (1 - Puncturing Limit) * 100. Puncturing Limit is
defined at 3GPP STD TS 125 331. To avoid the error, increase the
symbol rate of physical channel, decrease the number of bits of the
TrCH, or align the rate matching attribute of each TrCHs.

"Turn on channel #%d caused the puncture"
"rate to exceed the maximum specified rate for"
"at least one transport channel. Transport"
"channel #%d has been turned off."

    The puncture rate of each TrCH should be smaller than 60%, which is
    displayed on UI screen as "Max Puncture" value. Max Puncture is
    calculated as (1 - Puncturing Limit) * 100. Puncturing Limit is
    defined at 3GPP STD TS 125 331. In this case, data bits number
    before rate matching is increased because of TrCH addition, and
    symbol rate of physical channel is not changed. So puncture rate is
    increased. To avoid the error, increase the symbol rate of physical
    channel or decrease the number of bits of TrCHs.

"The puncture rate is >= %d percent on DCH Ch %d,"
"increase the DPCH Slot Format or edit DCH fields"
"to reduce the puncture rate."
"All DPCH channels were turned off."

    Transport channels cannot be punctured more than X%. The slot
    format needs to be increased (which in turn increases the symbol
    rate) on the underlying DPCH channel, or the transport channel
    parameters must be changed to reduce the puncture percentage. The
    underlying DPCH channel has been turned off.

"Ramping step should be 0 when Number of Preamble is Infinity."

    When the repetition number of PRACH Preambles is set to "Infinity",
    the ramping step power of Preambles must be "0" dB. This is
    equivalent to constant Preamble power configuration.

"The selected Eb Ref channel which 3GPP Uplink AWGN refers to must be"
"on."

    The physical channel to which the AWGN Eb Ref refers is off. Turn
    the channel on.

"Channel #%d must be on for any transport channel"
"following it to be on. All transport channels"
"following channel #%d have been turned off"

    Transport channels must be turned on sequentially. Therefore, all
    transport channels with a higher number than a channel that is
    turned off will be automatically turned off.

"Channel #%d must be turned on before"
"channel #%d can be turned on. Channel #%d"
"has been turned off."

    Transport channels must be turned on sequentially. For example,
    channels 1,2 and 3 must be turned on before channels 4 through 6
    can be activated.

"The TrCH must be selected in Data on DPDCH or"
"Msg Data physical channel setup."

    The TrCH isn't selected in DPDCH(Msg Data) physical channel setup
    in spite of 3GPP Uplink AWGN E bRef(E ref) refers to DCH(RACH). Set
    TrCH as the data type.

"the Transport Position must be FIXED when compressed mode is on."

    The Transport Position must be FIXED when compressed mode is on.

"Transmit Diversity should be NONE when"
"Compressed Mode is on or OutOfSyncTest is on."

    Transmit Diversity should be NONE when Compressed Mode is on or
    OutOfSyncTest is on.

"Walsh conflict between: %s and %s"

    There is a Walsh collision between two channels specified. Either
    one Walsh code is equal to the other, or it falls under the other
    Walsh's tree. A Walsh collision results in an invalid signal.
    Select a different Walsh code according to Walsh selection rule.

"BBG data clock has been set to internal. Ext data bit"
"clock does not work with combined GSM/EDGE."

    Combined GSM/EDGE does not work with an external bit clock. However
    it can be used with an external symbol clock.

"Differential encoding has been turned off."
"Differential encoding does not work above 50 Mbps."

    Differential encoding does not work above 50 Mbps.

"BBG data clock has been set to internal. Ext"
"data bit clock does not work with data rates"
"over 50 Mbps. Ext symbol clock is okay."

    Parallel mode does not work with an external bit clock. However it
    can be used with an external symbol clock.

"The bit rate has been set to 50 Mbps. Ext (serial)"
"data in does not work with data rates above 50 Mbps."

    Ext (serial) does not work at rates above 50 Mbps. Ext parallel can
    be used at higher bit rates.

"Changing one of the setup parameters caused the clock rate to be out"
"of range. The clock rate has been clipped to its new lower limit."

    Clock rate limits are dependant on of the other setup parameters.
    This error is reported when the parameters change causing the clock
    rate to be below the new limits.

"Changing one of the setup parameters caused the clock rate to be out"
"of range. The clock rate has been clipped to its new upper limit."

    Clock rate limits are dependant on of the other setup parameters.
    This error is reported when the parameters change causing the clock
    rate to be above the new limits.

"The Digital Data state was forced off because the connection to the"
"digital module was lost. You must reconnect the module to turn"
"Digital Data back on."

    When the digital module is disconnected while the state is on, the
    state will be forced off. This error is reported to notify the user
    that the state was forced off.

"A change in the clock rate has caused the skew to be outside the"
"valid range. The skew has been set to zero."

errorDoc.txt

When the frequency is changed and the skew setting is to high or
too low for the new frequency, this error is generated to report
that the skew has been re-set to zero.

"When the clock rate setting is below 10 MHz or above 200 MHz, only"
"phase settings of 0 and 180 degrees are valid. The phase was changed"
"to a valid setting."

When the frequency is changed to below 10 MHz or above 200 MHz and
the phase is set at 90 or 270 degrees, the phase value is reduced
by 90 degrees. Only 0 and 180 degrees are valid in the frequency
ranges below 10 MHz and above 200 MHz.

"The Digital Data state could not be turned on because the module was"
"not connected. Please connect the module before turning the state on."

This error is generated if the module is not connected when digital
data is turned on.

"Frequency list and power list are of"
"unequal size. Turn one off, set one to"
"size one, or make their sizes equal."

The frequency list has more than one element and the power list has
more than one element, and they are not of equal size. If any of
the frequency, power, or dwell lists have more than one element,
they must all have the same number of elements. A list of a single
element is the same as a list of equal size with the single element
repeated the necessary number of times.

"Power list and dwell list are of"
"unequal size. Set one list equal to size"
"one or make their sizes equal."

Both the dwell list and the power list have more than one element,
and they are not of equal size. If any frequency, power, or dwell
lists have more than one element, they must all have the same
number of elements. A list of a single element is the same as a
list of equal size with the single element repeated the necessary
number of times.

"Sequence list not specified"

A list sweep was attempted but there was no list specified.

"Incompatible step sweep frequency setting."
"Start, stop, center or span setting changed"
"to be compatible with last command."

Incompatible step sweep frequency setting. Start, stop, center or
span setting changed to be compatible with last command.

"Incompatible step sweep power setting."
"Start, stop, center or span setting changed"
"to be compatible with last command."

Incompatible step sweep power setting. Start, stop, center or span
setting changed to be compatible with last command.

"8757D system mode does not support the following"
"command: %s"

The instrument is connected to an 8757 network analyzer in smart

        mode and cannot set this feature.

"Only ramp sweeps can alternate."

        Only ramp sweeps can alternate; list, step sweeps, and CW states
        cannot.

"If amplitude reference state is on, power units must"
"be dB. If amplitude reference state is off, allowable"
"power units are dBm, dBuV, dBuVemf, V, and Vemf."

        An attempt was made to change the units used when reporting the
        amplitude value through SCPI or displaying it on the front panel.
        The units specified conflict with the amplitude reference state. If
        amplitude reference state is on, power units must be dB. If
        amplitude reference state is off, allowable power units are dBm,
        dBuV, dBuVemf, V, and Vemf.

"I/Q delay adjustment limits depend on the rate of the active format."
"The delay has been limited to the current upper or lower bound as"
"appropriate."

        I/Q delay adjustment limits depend on the rate of the active
        format. The delay has been limited to the current upper or lower
        bound as appropriate.

"Skew limits depend on the rate of the active format. The skew has"
"been limited to the current upper or lower bound as appropriate."

        Skew limits depend on the rate of the active format. The skew has
        been limited to the current upper or lower bound as appropriate.

"Skew cannot be enabled when filters are active"
"that exceed a length of 32 symbols."

        Skew cannot be enabled when filters are active that exceed a length
        of 32 symbols.

"Skew cannot be enabled until the skew"
"adjustment has been completed."

        Skew cannot be enabled until the skew adjustment has been
        completed.

"Skew is not compatible with the existing"
"modulation type. Skew has been disabled."

        Skew is not compatible with the existing modulation type. Skew has
        been disabled.

"The maximum value of the Summing Ratio is dependent on the"
"Modulator Atten value. Summing ratio value has been modified"
"to reflect the decreased IQ Modulator Atten value."

        The maximum value of the Summing Ratio has a dependency on the
        Modulator Atten value. Summing Ratio Max Value = +50dB +Modulator
        Atten Summing Ratio Min Value = -50dB -Modulator Atten

"Increase in sweep span increases sweep time."

        The minimum sweep time is dependant on the sweep span and start
        freq.

"Missing parameters:"
"When state is on all DwPTS parameters are required."

  Missing parameter. When the state is on, Downlink Pilot requires
  all following fields: power in db, SYNC code, and rotation pattern.

"Missing parameters:"
"When state is on all UpPTS parameters are required."

  Missing parameter. When the state is on, Uplink Pilot requires all
  following fields: power in db, SYNC code, and time offset.

"When combined GSM/EDGE is enabled, the"
"maximum number of filter symbols allowed is"
"32 (Skew Mode off) or 16 (Skew Mode on)."
"The filter type has been defaulted."

  When Skew Mode is enabled, the number of user FIR filter symbols
  must be less than 32. The filter type has been defaulted.

"When Skew Mode is enabled, the maximum"
"number of filter symbols allowed is 32."
"The filter type has been defaulted."

  When Skew Mode is enabled, the number of user FIR filter symbols
  must be less than 32. The filter type has been defaulted.

Error code: -222
Standard message: "Data out of range"

  "value clipped to lower limit."

  An input value is below the minimum value allowed. Examples are:
  frequency setting, reference, or offset; output power; power
  reference and offset; modulation depth, deviation, or modulation
  source frequency; number of points and start/stop values for list
  mode; start/stop values for internal I/Q calibration; sequence or
  register values (save/recall); dwell time.

  "value clipped to upper limit."

  An input value is above the maximum value allowed. Examples:
  frequency setting, reference, or offset; output power; power
  reference and offset; modulation depth, deviation, or modulation
  source frequency; number of points and start/stop values for list
  mode; start/stop values for internal I/Q calibration; sequence or
  register values (save/recall); dwell time.

  "In the %s, the slot position + num_slots cannot exceed 64."

  The slot position + number of time slots cannot exceed 64. The slot
  position will be clipped.

  "Only DEFAULT or USER FILE data type is allowed."
  "Data type is changed to DEFAULT"

  Only Default data or user file is valid for Paging channel. Paging
  data is now set to Default.

  "Channel type not allowed for current link/config."

  The channel type you are trying to add is not supported by the

current CDMA2000 or 1xEV-DV link and/or radio configuration.

"Value clipped to available memory."

There was insufficient memory, so a value was clipped to allow
waveform generation with the available memory. For example, OSR.

"%s clipped to lower limit."

An input value is below the minimum value allowed. In some cases
the minimum value is affected by other item setting due to
coupling.

"%s clipped to upper limit."

An input value is above the maximum value allowed. In some cases
the maximum value is affected by other item setting due to
coupling.

"OCNS channel(s) power clipped to minimum limit."

As DPCH channel one power is increased, one or more of the OCNS
channels may become clipped to its minimum power of -40dBm during
channel balancing.

"Synthesizer: Frequency out of bounds."

The signal generator received an internal request for a frequency
outside of its supported frequency range. Report this error to
Agilent Technologies.

"Manual point exceeds list sizes."
"Limiting to maximum point."

The sweep/list manual point has been reassigned to a smaller number
value due to the longest list decreasing in size or being turned
off. Its new value is the length of the longest enabled list
(frequency or power).

"Manual point exceeds frequency"
"list size. Limiting to maximum point."

The sweep/list manual point has been reassigned to a smaller number
value due to the longest list decreasing in size or being turned
off. Its new value is the length of the frequency list that is the
longest enabled list.

"Manual point exceeds power"
"list size. Limiting to maximum point."

The sweep/list manual point has been reassigned to a smaller number
value due to the longest list decreasing in size or being turned
off. Its new value is the length of the power list, that is the
longest enabled list.

"Sequence point exceeds size of"
"active lists. Clipped to maximum"
"list element."

An error that occurs when in list sweep mode. The index used for
determining the next point to sweep is beyond the valid range for
the current list of points.

"Number of parameters is not an even number"

   The user flatness calibration points must be an even number.

"A burst fall shape must have at least"
"two points."

   Two points are needed to specify a fall shape in the MEM:DATA:SHAPe
   command.

"A burst rise shape must have at least"
"two points."

   Two points are needed to specify a rise shape in the MEM:DATA:SHAPe
   command.

"A modulation must have at least two points."

   Two points are needed to specify a 1 bit per symbol modulation.
   This error can be reported for I/Q or FSK modulation specifications
   using MEM:DATA:IQ and MEM:DATA:FSK.

"A burst shape can only have up to"
"%d points for the fall shape."

   The user has specified more than the maximum number of points
   allowed for the fall shape in the MEM:DATA:SHAPe command.

"A burst shape can only have up to"
"%d points for the rise shape."

   The user has specified more than the maximum number of points
   allowed for the rise shape in the MEM:DATA:SHAPe command.

"A differential mapping can only have up"
"to 256 states."

   The user has specified more than 256 states in the MEM:DATA:IQ or
   MEM:DATA:FSK commands for the differential states specification.

"An FSK modulation can only have up to 16 frequencies."

   The user has specified more than 16 frequencies in the MEM:DATA:FSK
   command.

"An I/Q modulation can only have up to 256 states."

   The user has specified more than 256 states in the MEM:DATA:IQ
   command.

Error code: -223
Standard message: "Too much data"

   "The current setting results in too many data points."
   "A new symbol map cannot be generated."
   "The current channel has been restored to its"
   "previous type."

   Due to hardware limitations, only a certain number of unique data
   points can be created for the IQ map. This channel type, together
   with its power setting, has exceeded that limit. The channel type
   reverts to its previous type to retain a valid signal. To try a

        different power setting, turn the channel off, switch to the
        desired type, change the power setting, and then turn the channel
        back on.

"The current setting results in too many data points."
"A new symbol map cannot be generated."
"The IQ Rotation has been restored to previous value."

        Due to hardware limitations, only a certain number of unique data
        points can be created for the IQ map. IQ rotation is designed to
        alleviate this problem, but incorrect use can result in undesirable
        effects. This error indicates that the current IQ rotation is
        optimal and cannot be changed.

"The current setting results in too many data points."
"A new symbol map cannot be generated."
"The format has been turned off."

        Due to a hardware limitations, only a certain number of unique data
        points can be created for the IQ map. This channel power level has
        resulted in an IQ map that exceeds the hardware limit, when it is
        turned on, and cannot be accomodated. The channel has been turned
        off to retain a valid signal. To turn this channel on, try a
        different power setting or turn some other channel off.

"The number of CDMA channels"
"exceeds the maximum allowed."

        The maximum number of CDMA channels cannot exceed the maximum that
        is defined in the technical specifications document. Reduce the
        number of carriers and try again.

"The number of CDMA carriers"
"exceeds the maximum allowed."

        The maximum number of CDMA carriers cannot exceed the maximum that
        is defined in the technical specifications document. Reduce the
        number of channels and try again.

"The current setting results in too many data points."
"A new symbol map cannot be generated."
"The format has been turned off."

        Due to hardware limitations, only a certain number of unique data
        points can be created for the IQ map. CDMA2000 or 1xEV-DV mode
        turns off when the power combination of all channels exceed that
        limit. Adjust the channel power level and try again. Due to
        hardware limitations, only 256 unique data points can be created
        for the IQ map. WCDMA mode turns off when the power combination of
        all channels exceeds that limit. Adjust the channel power level and
        try again.

"The number of carriers"
"exceeds the maximum allowed."

        The maximum number of carriers cannot exceed the maximum that is
        defined in the technical specifications document. Reduce the number
        of carriers and try again.

"The current power setting results in too many data"
"points. A new symbol map cannot be generated."
"The current channel power has been reverted to"
"its previous value."

Due to hardware limitations, only a certain number of unique data
points can be created for the IQ map. This channel power level has
resulted in an IQ map that exceeds the hardware limit when turned
on, and cannot be accommodated. The channel power has been reverted
to its previous value to retain a valid signal. To turn this
channel on, try a different power setting or turn some other
channel off.

"User filter has too many symbols."

The baseband generator cannot use a filter that has more than 32
symbols. You may have specified an incorrect over-sample ratio in
the filter table editor.

"*** No custom message ***"

A legal program data element of block, expression or string type
was received that contained more data than the device could handle
due to memory or related device-specific requirements.

"%s"

The specified file was being built up by a SCPI data block transfer
when the memory block allocation failed.

"The number of list points"
"exceeds the maximum allowed."

Some tables have a maximum number of entries. Sweep/List can only
have 1601 points, for example. The baseband generator cannot use an
I/Q map that has more than 16 unique values for both I and Q. You
can use global search and replace to replace all occurrences of a
given value (in both I and Q) with a different value.

"The number of points in the table"
"exceeds the maximum allowed."

This error occurs when you try to create a table that is too big.
For example, if you enter a list in SCPI that is longer than the
maximum allowed length, or if you attempt to expand a table and the
table is already at its maximum length.

Error code: -224
Standard message: "Illegal parameter value"

"Option 416 does not have a valid license."

*** No documentation ***

"Analog bus node not present"

The analog bus node that was selected is not a valid node in the
system.

"Illegal parallel bus address"

Internal error. The instrument tried to access an illegal parallel
bus address.

"Latch name not present"

        The latch name that was selected is not a valid latch in the
        system.

    "Command requires at least one data value."

        A modulation type cannot be created without data.

    "The OSR must be an even value."

        RADio:ARB:GENerate:SINE generates a valid sine waveform and the OSR
        must be an even value to generate a waveform with an even number of
        samples.

    "Total user file bits must be greater than 0."

        An attempt was made to select a user file that contains 0 bits.
        Select another user file that contains at least 1 bit.

    "*** No custom message ***"

        Used where an exact value was expected from a list of
        possibilities.

Error code: -230
Standard message: "Data corrupt or stale"

    "Either the file is not a bit file, or"
    "the number of bits specified does not"
    "match the number of data bytes in"
    "the file."

        An error has occurred while downloading a user file to the Bit
        memory catalog. Either the user file is not a bit file, or the
        number of bits specified in the SCPI command does not match the
        number of bytes in the file. Ensure that the bit specifier matches
        the actual number of bits in the file.

    "The user file version is not recognized."
    "%s"

        An error has occurred while loading a user file where the version
        of the file is not recognized as a supported version.

    "%s"

        The sequence file that you are attempting to run is the wrong size.

    "EEPROM @ offset 0x%06X: wrote 0x%02hX, read 0x%02hX"

        After writing shadow RAM data to EEPROM, a memory comparison
        detected a difference. The EEPROM may not be retaining data
        properly. Report this error to Agilent Technologies.

    "Header File is Not Found or Invalid:"
    "%s."

        This error occurs when trying to open a header file, the file does
        not match any known header format or does not exist. %s is the
        filename being accessed.

    "Header File Parameter Out of Range or Not Valid:"
    "%s."

This error is reported when trying to apply the header parameters
to the instrument state. If one of the parameters does not contain
a valid value for that state, this error is reported. The %s will
describe which header field contained the invalid value.

Error code: -241
Standard message: "Hardware missing"

"Cannot access a baseband generator"
"that does not exist."

Tried to retrieve access information that was not created for a
given baseband generator. The hardware probably does not exist.

"SIO address does not exist"

The expected board is not installed. Report this error to Agilent
Technologies.

"No Source Module connected"

Cannot turn on Source Module Mode if source module is not
connected. Check cable connection.

Error code: -253
Standard message: "Corrupt media"

"%s"

A source media (possibly EEPROM) for a data file is corrupt. This
error is usually seen in conjunction with errors concerning a
certain file.

Error code: -254
Standard message: "Media full"

"%s"

The operation could not be performed because the media was full.
Delete some unwanted files and try again.

"%s"

The operation could not be performed because the media was full.
Either the content of the files has completely consumed the storage
space, or the maximum number of files have been created. Delete
some unwanted files and try again.

"%s"

Invalid file or device name.

Error code: -255
Standard message: "Directory full"

"%s"

A legal program command or query could not be executed because the

media directory was full.

Error code: -256
Standard message: "File name not found"

        "%s"
        "The modulation type has been defaulted."

                The specified file is not a modulation file type so the modulation
                type has been defaulted.

        "%s"

                Invalid file or device name.

        "%s"

                Invalid file or device name.

        "%s"

                The file specified does not exist.

        "User preset file could not be found:"
        "a user preset state must be saved before"
        "the preset type can be set to User."

                The instrument could not find a user-saved preset state. The user
                must first save a preset state before the Preset Type can be set to
                User.

Error code: -257
Standard message: "File name error"

        "Waveform file not selected."

                Waveform file or sequence file must be selected when turning ARB
                on.

        "Invalid Filename"

                An invalid filename was encountered. Please refer to the user
                manual for guidelines on filename format.

        "%s"

                Invalid file or device name.

        "Filename cannot contain any directory"
        "information: %s"

                This error occurs when a filename with any directory information is
                passed to a SCPI command that is not expecting it. The parameter is
                the bad filename.

        "%s"

                There was a problem with the specified file name. Check the syntax
                and try again.

        "No file has been selected for use as the PRAM file. Please select an"

"existing file before trying to use PRAM."

        No file has been selected for use as the PRAM file. Please select
        an existing file before trying to use PRAM.

    "Filename cannot contain any directory"
    "information: %s"

        This error occurs when a filename with any directory information is
        passed to the SCPI command RADio:ARB:GENerate:SINE. The parameter
        is the bad filename.

    "The filename specified for saving or recalling is not"
    "valid. Note that only the STATE memory subsystem can be"
    "used with save/recall."
    "Name supplied: %s"

        Save/Recall can only operate on the STATE memory subsystem. The
        parameter is the bad filename.

Error code: -259
Standard message: "LAN setup error"

    "IP address and default gateway must be on the same"
    "subnet. Offending entries are changed."

        The IP address and default gateway are not on the same network as
        specified by the subnet mask. Verify that both addresses are on the
        same subnet and try again.

    "The instrument could not extend lease for a dynamic IP address using"
    "DHCP. The LAN interface will be shut down until a new address can be"
    "obtained again."

        An initial DHCP LAN configuration was obtained. However, when the
        lease expired, the instrument was unable to extend it and as a
        result lost the previously assigned IP address. Refer to the
        internet DHCP protocol documentation for further information.

    "The instrument could not obtain a LAN configuration using DHCP. The"
    "LAN interface is not initialized. The instrument will continue to try "
    "to obtain a LAN configuration."

        The instrument was configured to use DHCP to obtain the LAN
        interface configuration. The instrument was not able to negotiate
        with surrounding DHCP servers. Either DHCP servers are not present,
        or they are not allowing this device to obtain an IP address.
        Possibly, the LAN cable is disconnected or is broken. The
        instrument will try to contact DHCP servers at regular time
        intervals. The LAN setup menu will be updated if LAN configuration
        is obtained.

    "Default gateway IP address is inconsistent with"
    "subnet mask or IP class rules. Offending entry"
    "is changed."

        The default gateway IP address is invalid. Check the entry for
        syntax and numerical errors and try again. Verify that the subnet
        mask is consistent with this address (host bits should not be all
        0s or 1s). If no subnet is specified, verify that the address is
        valid with respect to the default class netmasks: A (0x00FFFFFF),
        B(0x0000FFFF) or C(0x000000FF).

"IP address is inconsistent with subnet mask or"
"IP class rules. Offending entry is changed."

The IP address is invalid. Check the entry for syntax and numerical
errors and try again. Verify that the subnet mask is consistent
with this address (host bits should not be all 0s or 1s). If no
subnet is specified, verify that the address is valid with respect
to the default class netmasks: A (0x00FFFFFF), B(0x0000FFFF) or
C(0x000000FF).

Error code: -280
Standard message: "Program error"

"The following SCPI command generated an error:%s"

The SCPI command generated an error.

Error code: -310
Standard message: "System error"

"Incorrect personality active on board %d. This"
"operation can only be performed by the"
"\"%s\" personality."

The command issued expected a given personality to be loaded on the
given board. Report this error to Agilent Technologies.

"RTS pace not supported"

The RS232 command is not supported.

"RS232 receive error."
"%s"

Caused by either framing, parity, or overrun errors during RS232
communication.

"Receive pace not supported"

Command is not supported for RS232 communication.

"RS232 send error."
"%s"

Caused by either framing, parity, or overrun errors during RS232
communication.

"Error sending RS232 XON/XOFF."
"%s"

Caused by either framing, parity, or overrun errors during RS232
communication.

"Transmit pace not supported"

Command is not supported for RS232 communication.

"Error updating RS232 configuration."
"%s"

        Caused by either framing, parity, or overrun errors during RS232
        communication.

"Error updating RS232 RTS line."
"%s"

        Caused by either framing, parity, or overrun errors during RS232
        communication.

"Line:%d file:"
"%s "
"stack: %s"

        An internal error occurred at the specified location within the
        specified file.

"Automatic reboot performed"
"due to exception vector #%ld"
"at PC 0x%06X"

        An exception occurred at the instruction address. This is a
        internal firmware error. Currently not supported.

"Revert to default cal not implemented"

        Command not implemented.

"YO pretune service calibration failed."

        The calibration will take an initial coarse YO pretune calibration
        that consists of a gain and offset term, and refine that to include
        a cubic term that is applied above 7 GHz to linearize the tuning.

"Arb generation failed. File System failed to access"
"required file."

        There was a problem opening, reading or writing to the specified
        file.

"File System failed to load/store file"
"%s"

        There was a problem either loading or storing the user specified
        file and the operation was not completed.

"FIR subsystem generated more coefficients"
"than the hardware can handle."

        The maximum number of coefficients for a given set of hardware has
        been exceeded. The filter must be created with fewer coefficients.

"Hardware error. Unable to apply phase inversion!"

        There is an error with the baseband generator. Try turning CDMA2000
        or 1xEVDV mode off and on again to reset the card. If the problem
        persists, report this error to Agilent Technologies.

"*** No custom message ***"

        *** No documentation ***

"%s"

Invalid file or device name.

"Critical digital module error. Report this error to Agilent"
"Technologies."

    This error cannot be generated under normal operating conditions
and should be reported to Agilent Technologies.

"Error backing up system files."

    Error encountered while writing system files to backup storage.

"Cal in use, cannot delete: %s"

    Calibration file cannot be deleted since it is currently in use.
Error caused by diagnostic command.

"Error creating directory: %s"

    Error creating a directory. The directory is shown in error
message.

"Invalid object."
"%s"

    Internal error. File system operation encountered invalid object.

"Media raw."
"%s"

    The flash storage media was never formatted or is corrupted. The
system will reformat it now.

"Memory already allocated."
"%s"

    Internal error. File system operation already attempted.

"Not implemented."
"%s"

    Internal error. This functionality is not implemented.

"Null pointer."
"%s"

    Internal error. File system operation failed.

"Path too long deleting cal"

    Resulting path to calibration file was too long and file was not
removed. Error caused by diagnostic command.

"The system was powered off during file system update."
"File system volumes were verified."

    Informational warning. Powering down system (turning the power off)
during file system write operation may leave the file system in
inconsistent state. On subsequent reboot the volume was verified
and errors repaired.

"Error restoring system files."

    Error encountered while restoring system files from backup storage.

"Unknown file system error."
"%s"

    Internal error.

"Volume consistency check failed:"
"%s"
"Volume needs to be reformatted."

    Consistency check detected that volume is corrupted and cannot be
    automatically fixed. Contact service for help.

"Volume already exists: %s"

    Internal error. The attempt to mount volume detected that volume
    already exists. The system will proceed anyway.

"Volume format failed: %s"

    The formatting of the file system volume failed. The instrument
    hardware may be damaged.

"Volume reformatted: %s"

    Informational error that a file system volume was reformatted
    because it was damaged or formatting was requested by user.

"Volume failed to mount after reformatting:"
"%s"

    The volume was reformatted successfully but failed to mount. The
    storage media could be damaged.

"Volume failed to mount."
"It was reformatted:"
"%s - %s."

    The volume was reformatted because is failed to mount. It was
    either completely damaged or never initialized. This error reports
    the 'Success' or 'Failure' of formatting operation. The system will
    try to proceed either way.

"Volume verification found error."
"Volume: %s"
"Error will be fixed now."
"Fault code=%x"

    Volume verification encountered a volume error that was fixable.
    The error was fixed and verification continued.

"Volume verification found error."
"Volume: %s"
"This error cannot be fixed."
"Please reformat the volume. Fault code=%x"

    Volume verification encountered a volume error that was not
    fixable. The verification continued. The volume should be
    reformatted to regain stable functionality.

"Failed to write file."

An attempt to write to a file in the internal file system has
failed. This may be a temporary condition caused by insufficient
disk space or system interaction. Try reducing file system usage
and try again. If the problem persists, report this error to
Agilent Technologies.

"Could not limit frequency settings."
"Please preset."

Based on the current frequency settings (multiplier, offset, etc.)
the signal generator cannot successfully limit the frequency.
Preset the signal generator to insure the firmware will return to a
valid state.

"Hardware communication error during ramp sweep."

The synthesis system had a hardware communications failure during
ramp sweep.

"Cannot change manual point until list"
"mode error condition cleared."

An error is keeping the sweep/list from being able to set the
frequency and/or power. Until the problem is addressed, the manual
point cannot be changed.

"%s"

An compatibility language specific system error occurred. The
string contains information about the error.

"Could not create percent complete window semaphore."

When trying to initialize a percent complete Window the needed
semaphore could not be created. Report this error to Agilent
Technologies.

"The %s subsystem was not found."
"The requested operation could not be completed."

The subsystem named in the error was not found. Operations within a
subsystem depend on the subsystem for successful execution. If it
is not found the operations cannot be executed. Digital
personalities are also considered subsystems.

Error code: -311
Standard message: "Memory error"

"Unable to configure Save Recall"
"registers from non-volatile memory."
"Save Recall registers re-initialized."

Indicates that saved states are no longer usable. Delete explicitly
using Catalog.

Error code: -313
Standard message: "Calibration memory lost"

"Cannot restore cal from backup:"
"%serr=%d"

        Cannot restore specified cal from backup because of a file error.

        "Cannot store cal:"
        "%serr=%d"

            Cannot store specified cal because of a file error.

        "Cannot store cal to backup:"
        "%serr=%d"

            Cannot store specified cal to backup because of a file error.

        "Previous Internal IQ calibration data is invalid."
        "Data has been removed. A new user IQ calibration is"
        "recommended."

            An expected file was not found while trying to load internal IQ
            calibration data. All other data has been removed. A new cal should
            be performed.

        "Cal not found and was created:"
        "%s"

            The specified cal file was not found so it was created by the
            system.

        "Cal out of mem: %s"

            Inadequate memory for specified cal file.

        "Cal resizing: %s"

            Inadequate memory to resize specified cal file.

        "Error occurred while trying to load data"
        "from previous internal IQ calibration."

            An expected file was not found while trying to load internal IQ
            calibration data.

        "Cal restored from backup:"
        "%s"

            A specified cal file was restored from backup.

Error code: -315
Standard message: "Configuration memory lost"

        "Persistent state checksum is bad."
        "Using factory defaults."

            The persistent state is corrupt and had to be reinitialized with
            the factory preset values.

        "Persistent state preset."
        "Using factory defaults."

            The persistent state has been forced to return to factory preset
            values.

Error code: -321

Standard message: "Out of memory"

"Modulation subsystem unable to operate."

There is insufficient working memory available. Report this error
to Agilent Technologies.

"Not enough Waveform Memory on BBG%d"

There is not enough memory left on the baseband board to generate
the required baseband file. Remove any file that might have been
previously downloaded and is not required anymore (e.g. ARB files).
Select different parameters that require a smaller file. Upgrade to
a baseband option with larger memory.

"High Amplitude is less than Low Amplitude."

The specified high amplitude value is smaller than the low
amplitude value for a sensitivity search measurement. No
measurement is performed.

"Arb file selection failed. File System failed to"
"access required file. Some table editor files may be"
"corrupted."

There was a problem accessing a required file.

"ARB is not functional."

There is insufficient memory for the ARB to generate the requested
waveform.

"Simulation requires %lu points free"
"in ARB memory."

The simulation cannot occur until the specified number of points
are available in ARB memory. Increase the amount of available ARB
memory and try again.

"BBG 3GPP cannot function properly."

3GPP cannot function properly due to dynamic memory allocation
failure.

"Could not perform channelization code conflict test."

This error is reported when an attempt to check WCDMA DL channels
for conflicting channelization codes fails due to an out of memory
error.

"Modulation subsystem unable to operate."

There is insufficient working memory available. Report this error
to Agilent Technologies.

"FIR subsystem unable to operate."

There is insufficient working memory available. Report this error
to Agilent Technologies.

"Not enough memory to read data file."

There is not enough memory to read the specified data file. Try a

smaller file. Reduce the size of any list/sweep, and preset the source to clear up any inconsistencies. If the problem persists report this error to Agilent Technologies.

"Shape subsystem unable to operate."

There is insufficient working memory available. Report this error to Agilent Technologies.

"The pre-coding bit data for this transport channel is"
"not generated due to the memory overflow or memory"
"allocation error."

Reduce the amount of coding applied to data or decrease the amount of data.

"Complementary Cumulative Distribution"
"Display cannot function."

There is insufficient working memory available. Report this error to Agilent Technologies.

"Unable to display Opt 300 GSM BERT window."

There is insufficient working memory available. Report this error to Agilent Technologies.

"Unable to display BERT window"

The instrument was unable to create part of the graphical user interface due to an inability to allocate memory (possibly due to fragmentation). Report this error to Agilent Technologies. The instrument is still functional.

"FFT subsystem unable to function."

There is insufficient working memory available. Report this error to Agilent Technologies.

"Unable to display format window."

The instrument was unable to create part of the graphical user interface due to an inability to allocate memory (possibly due to fragmentation). Report this error to Agilent Technologies. The instrument is still functional.

"Graph subsystem cannot function."

There is insufficient working memory available. Report this error to Agilent Technologies.

"Histogram display cannot function"

There is insufficient working memory available. Report this error to Agilent Technologies.

"I/Q map display cannot function."

There is insufficient working memory available. Report this error to Agilent Technologies.

"Impulse response display cannot function."

There is insufficient working memory available. Report this error to Agilent Technologies.

"Unable to display protocol window."

The instrument was unable to create part of the graphical user interface due to an inability to allocate memory (possibly due to fragmentation). Report this error to Agilent Technologies. The instrument is still functional.

"%s display cannot function."

There is insufficient working memory available. Report this error to Agilent Technologies.

"Display system out of memory."
"An abnormal display may result."
"Memory consumption should be reduced."

There was not enough memory in the system to properly update the display. Some inconsistencies may be seen. The size of any list/sweep should be reduced, and the source should be preset to clear up any inconsistencies. Report this error to Agilent Technologies.

"Unable to display timeslot window."

The instrument was unable to create part of the graphical user interface due to an inability to allocate memory (possibly due to fragmentation). Report this error to Agilent Technologies. The instrument is still functional.

"FILE NAME"

A file system operation has failed due to a lack of memory in the system. Reduce memory usage and try again.

"Cannot convert binary file to bit file."

There is not enough memory to convert a binary file to a bit file. Reduce the size of any sweep lists and try again.

"Memory catalog failed."

There is not enough memory to complete a catalog listing. Reduce the size of any sweep lists and try again.

"Cannot precalculate frequencies."
"Try fewer frequencies."

Indicates that memory was exhausted during frequency precalculation (used to speed the process of sweep/list mode). List mode cannot run until either fewer frequencies have been supplied or more memory becomes available and the same set of frequencies are sent again, FREQ:MODE CW is executed, or :FREQ:MODE LIST is executed.

"Memory allocation error."

There is insufficient working memory available. Report this error to Agilent Technologies.

"Not enough memory to buffer paging message."

There is not enough memory to buffer the asynchronous paging message, so it will not be played. Reduce the size of any list/sweep, and preset the source to clear up any inconsistencies. If the problem persists, report this error to Agilent Technologies.

"SMI is not functional."

There is insufficient memory for the SMI to generate its cal data.

"Could not copy current istate."

An instrument state operation, such as save/recall, could not allocate enough space to copy an instrument state. The operation is aborted.

"Memory allocation error. Data will be incorrect."

An allocation error occurred while trying to create a string of bits. Report this error to Agilent Technologies.

"Burst shape subsystem unable to operate."

Operations on a Burst Shape could not be completed because of insufficient memory.

"The table editor cannot function properly"
"until more memory is available."

There is insufficient working memory available. Reduce the size of any sweep lists and try again.

"*** No custom message ***"

*** No documentation ***

Error code: -330
Standard message: "Self-test failed"

"BBG%d: %s"

A self-test executed on the baseband generator failed. Report this error to Agilent Technologies.

"The demodulator board failed to power up properly."

The demodulator board failed to power up properly. Report this error to the nearest Agilent Technologies sales and service office.

"The loop back test failed because the digital module could not be set "
"up."

To run a diagnostic loop back test, the instrument needs to communicate with and set up the module. This error is reported when the instrument cannot communicate with the module.

Error code: -430
Standard message: "Query DEADLOCKED"

"*** No custom message ***"

A condition causing a DEADLOCKED query error occurred (see IEEE

        488.2, 6.3.1.7). For example, both the input buffer and the output
        buffer are full and the device cannot continue. This can occur when
        a SCPI output queue has filled, preventing further SCPI command
        execution, and there is no more room left in the corresponding SCPI
        input queue to accept a query to read from the output queue. The
        system automatically discards output to correct the deadlock.

Error code: 208
Standard message: "I/O error"

        "Unable to read bit file."

                There is an error reading the specified bit file. Try selecting the
                file again.

        "The user file is too large."

                The user file selected is too large. Try selecting a smaller file.

        "The user file is too small."

                The user file selected is too small. Try selecting a larger file.

        "The user file is too large."

                The user file selected is too large. Try selecting a smaller file.
                DCH files must be less than or equal to 4096 bytes. TPC pattern
                files must be less than or equal to 256 bytes.

        "%s"

                Invalid file or device name.

Error code: 209
Standard message: "Invalid argument"

        "%s"

                A file system operation failed because an invalid parameter was
                specified for the operation. Report this error to Agilent
                Technologies.

Error code: 211
Standard message: "Not owner"

        "%s"

                Permission has been denied to perform an operation on the specified
                file.

Error code: 219
Standard message: "Bad file number"

        "%s"

                Invalid file or device name.

Error code: 220

Standard message: "Arg out of domain of func"

          "%s"

               An operation failed within the specified file because of an invalid
               argument.

Error code: 221
Standard message: "Access denied"

          "Cannot modify file in use:"
          "%s"

               A file cannot be deleted, renamed, or overwritten while it is in
               use. For example, any segment of a sequence that is currently
               selected in the ARB personality cannot be deleted or renamed while
               the ARB personality is on.

          "Cannot read %s. All files in the waveform directories, volatile or"
          "non-volatile, cannot be read unless they are written with"
          "MEM:DATA:UNPRotected."

               All files in the waveform directories, volatile or non-volatile,
               cannot be read out unless they are written with the
               MEM:DATA:UNPRotected SCPI command.

Error code: 223
Standard message: "Illegal seek"

          "%s"

               Illegal seek in a sequential file.

Error code: 224
Standard message: "Text file busy"

          "%s"

               TODO: The parameter is file name that is busy.

Error code: 501
Standard message: "Attenuator hold setting over range"

          "Frequency change forced attenuator adjust."

               The firmware has changed the attenuator setting because, while in
               attenuator hold mode, a change in frequency setting has forced the
               ALC beyond its range.

          "Power set to lower limit."

               The firmware has changed the power setting to a value other than
               the requested value due to the fact that, while in attenuator hold
               mode, the user has requested a power setting that is below the ALC
               range for the attenuator setting. The power has been set to the
               lower limit.

          "Power set to upper limit."

The firmware has changed the power setting to a value other than
the requested value due to the fact that, while in attenuator hold
mode, the user has requested a power setting that is above the ALC
range for the attenuator setting.

Error code: 508
Standard message: "Frac-N Loop unlocked"

        "*** No custom message ***"

        The synthesizer is unlocked. Service may be needed.

        "*** No custom message ***"

        The synthesizer is unlocked. Service may be needed.

Error code: 512
Standard message: "Reference unlocked"

        "This error may occur if the external frequency"
        "reference is changed. Refer to the manual for"
        "more details."

        The instrument's reference is unlocked. If an external reference is
        connected, check the frequency and power. It is possible for this
        to occur during a poor connection/disconnection of an external
        reference. If this error reoccurs when no external reference is
        connected, the instrument may require service.

Error code: 513
Standard message: "1 GHz Oscillator unlocked"

        "*** No custom message ***"

        The 1 GHz reference oscillator is unlocked. If an external
        reference is connected, check the frequency. If this error reoccurs
        when no external reference is connected, the instrument may require
        service.

Error code: 514
Standard message: "Reference Oven cold"

        "*** No custom message ***"

        The reference oven is not at the required operating temperature.
        This is normal if the instrument has been powered down for a while.
        If the error persists, the instrument may require service.

Error code: 515
Standard message: "Reference Missing"

        "Reference board:"
        "10Mhz reference signal bad or missing"

        The instrument's reference is unlocked. If an external reference is
        connected, check the frequency and power. It is possible for this
        to occur during a poor connection/disconnection of an external
        reference. If this error reoccurs when no external reference is

          connected, the instrument may require service.

Error code: 516
Standard message: "Baseband Generator unlocked"

        "BBG%d. This error may occur if the external"
        "frequency reference is changed or the data"
        "clock is incorrect. Refer to the manual for"
        "more details."

        The digital modulation board is unlocked. If this error occurs and
        the status indicator on the front panel is not on, the board is
        operational. There are legitimate reasons for the front panel
        indicator to be on: if External Data mode was selected and no clock
        was provided for the data clock input, or if there was an incorrect
        setting selected for data clock/symbol clock.

Error code: 517
Standard message: "Calibration failure"

        "Cal aborted by user."

        While executing the internal I/Q calibration, either a DCAS was
        sent over the GPIB, or the Abort key on the front panel was
        pressed.

        "Cannot interpolate the value %1.9e with"
        "index array %s."
        "Index array vals must be sorted in increasing order."

        The specified calibration files have not been properly initialized.
        Report this error to the nearest Agilent Technologies sales and
        service office

        "DCFM DC overrange."

        The instrument was unable to perform a DCFM or DCFM calibration due
        to the input signal being outside of the offset range that can be
        calibrated for.

        "IQ Calibration failure. %s"

        While executing the internal I/Q calibration, a failure occurred.
        Please check the hardware.

        "IQ Calibration failure. Internal software defect."

        While executing the internal I/Q calibration, a failure occurred.
        An internal software error has occurred. A measurement node
        requested by the firmware does not exist. A firmware patch is
        required.

        "IQ Calibration failure. Insufficient range."

        While executing the internal I/Q calibration, a failure occurred.
        The minimization algorithm cannot provide an accurate calibration.
        The adjustment DAC does not have the necessary range to remove the
        measured error. Please check the IQ Mux, IQ Modulator and output
        board hardware.

        "IQ Calibration failure. Calibration file could not be accessed."

While executing the internal I/Q calibration, a failure occurred. The file containing the calibration values could not be accessed. This may be caused by faulty motherboard flash but can also be the result of a configuration failure during a firmware upgrade or motherboard replacement.

"IQ Calibration failure. Cannot Access IQ20 INDEX Array."

While executing the internal I/Q calibration, a failure occurred while attempting to access the IQ20 INDEX Array. This array is required for proper operation of the internal IQ Calibration. This may be caused by faulty motherboard flash but can also be the result of a configuration failure during a firmware upgrade or motherboard replacement.

"IQ Calibration failure. Cannot Access IQ CAL CONSTS Array."

While executing the internal I/Q calibration, a failure occurred while attempting to access the IQ CAL CONSTS Array. This array is required for proper operation of the internal IQ Calibration. This may be caused by faulty motherboard flash but can also be the result of a configuration failure during a firmware upgrade or motherboard replacement.

"IQ Calibration failure. Cannot Access IQ CAL TOLERANCE Array."

While executing the internal I/Q calibration, a failure occurred while attempting to access the IQ CAL TOLERANCE Array. This array is required for proper operation of the internal IQ Calibration. This may be caused by faulty motherboard flash but can also be the result of a configuration failure during a firmware upgrade or motherboard replacement.

"IQ Calibration failure. Cannot Access IQ INDEX Array."

While executing the internal I/Q calibration, a failure occurred while attempting to access the IQ INDEX Array. This array is required for proper operation of the internal IQ Calibration. This may be caused by faulty motherboard flash but can also be the result of a configuration failure during a firmware upgrade or motherboard replacement.

"IQ Calibration failure. Calibration file could not be read."

While executing the internal I/Q calibration, a failure occurred. The required calibration values could not be read from the file. This may be caused by faulty motherboard flash but can also be the result of a configuration failure during a firmware upgrade or motherboard replacement.

"IQ Calibration failure. Calibration file could not be written."

While executing the internal I/Q calibration, a failure occurred. The required calibration values could not be written to the file. This may be caused by faulty motherboard flash but can also be the result of a configuration failure during a firmware upgrade or motherboard replacement.

"IQ Calibration failure. An error occurred during the IQ DC" "Calibration."

A failure has occurred during execution of the internal I/Q DC

calibration. Please check the IQ Mux hardware.

"IQ Calibration failure. Minimum DAC value exceeded."

    While executing the internal I/Q calibration, a failure occurred.
The minimization algorithm cannot provide an accurate calibration.
Correction of the measured error requires a DAC correction less
than the minimum value of the DAC. Please check the IQ Mux, IQ
Modulator and output board hardware.

"IQ Calibration failure. Maximum DAC value exceeded."

    While executing the internal I/Q calibration, a failure occurred.
The minimization algorithm cannot provide an accurate calibration.
Correction of the measured error requires a DAC correction greater
than the maximum value of the DAC. Please check the IQ Mux, IQ
Modulator and output board hardware.

"IQ Calibration failure. Excessive iterations during calibration."

    While executing the internal I/Q calibration, a failure occurred.
The calibration was unable to optimize Gain, Offset and Quadrature
within a reasonable number of iterations. Please check the IQ Mux,
IQ Modulator and/or output board hardware.

"IQ Calibration failure. The I channel reference voltage is out of"
"range."

    While executing the internal I/Q calibration, a failure occurred.
The measured Ext Out Path I channel reference voltage is outside
expected limits. Please check the IQ Mux hardware.

"IQ Calibration failure. The Q channel reference voltage is out of"
"range."

    While executing the internal I/Q calibration, a failure occurred.
The measured Ext Out Path Q channel reference voltage is outside
expected limits. Please check the IQ Mux hardware.

"IQ Calibration failure. IQ Gain iteration error."

    While executing the internal I/Q calibration, a failure occurred.
The IQ Gain could not be calibrated in a reasonable number of
iterations. Please check the IQ Mux hardware.

"IQ Calibration failure. Resolution error."

    While executing the internal I/Q calibration, a failure occurred.
The minimization algorithm does not have the necessary resolution
to provide an accurate calibration value. Please check the IQ Mux,
IQ Modulator and output board hardware.

"IQ Calibration failure. Measurement not stable."

    While executing the internal I/Q calibration, a failure occurred.
The minimization algorithm cannot provide an accurate calibration.
The measurement is not stable which has resulted in an excessive
number of measurement iterations. Please check the IQ Mux, IQ
Modulator and output board hardware.

"IQ Calibration failure. The I channel reference voltage is out of"
"range."

      While executing the internal I/Q calibration, a failure occurred.
      The measured Path 1 I channel reference voltage is outside expected
      limits. Please check the IQ Mux hardware.

"IQ Calibration failure. The Q channel reference voltage is out of"
"range."

      While executing the internal I/Q calibration, a failure occurred.
      The measured Path 1 Q channel reference voltage is outside expected
      limits. Please check the IQ Mux hardware.

"IQ Calibration failure. The I channel reference voltage is out of"
"range."

      While executing the internal I/Q calibration, a failure occurred.
      The measured Path 2 I channel reference voltage is outside expected
      limits. Please check the IQ Mux hardware.

"IQ Calibration failure. The Q channel reference voltage is out of"
"range."

      While executing the internal I/Q calibration, a failure occurred.
      The measured Path 2 Q channel reference voltage is outside expected
      limits. Please check the IQ Mux hardware.

"IQ Calibration failure. Failure during RF calibration."

      While executing the internal I/Q calibration, a calibration error
      occurred. The RF calibration of I/Q Gain and/or Offset calibration
      failed. Please check the IQ Mux, IQ Modulator and output board
      hardware.

"The index and data array sizes do not match."
"%s"
"%s"

      The specified calibration files have not been properly initialized.
      Report this error to the nearest Agilent Technologies sales and
      service office

"A required calibration array was found uninitialized."
"%s"

      The specified calibration file was found empty or improperly
      initialized. Report this error to the nearest Agilent Technologies
      sales and service office

Error code: 520
Standard message: "Sampler Loop unlocked"

      "*** No custom message ***"

      One of the signal generator's samplers is unlocked or one of the
      sampler circuits are malfunctioning. The instrument may require
      service.

Error code: 521
Standard message: "YO Loop unlocked"

      "*** No custom message ***"

The YIG oscillator phase lock loop is unlocked. The problem may be
due to a bad calibration. If not, then the instrument may require
service.

Error code: 522
Standard message: "Demodulator Unleveled"

        "Input amplitude underrange"

        The signal level is too high. Adjust the signal level for the VSA
        input.

        "Input amplitude overrange"

        The signal level is too low. Adjust the signal level for the VSA
        input.

Error code: 523
Standard message: "Power meter timeout"

        "Power meter timeout during user flatness"
        "calibration"

        The power meter times out when taking a reading during user
        flatness calibration. Check GPIB configuration, address and cable
        connections.

Error code: 524
Standard message: "Power meter reading invalid"

        "Power meter reading invalid during user"
        "flatness calibration"

        The power meter reading is invalid during user flatness
        calibration. Check GPIB configuration, address and cable
        connections.

Error code: 525
Standard message: "GPIB controller not enabled"

        "Cannot set instrument into the GPIB"
        "controller mode"

        At the start of user flatness calibration, the instrument could not
        be set to the GPIB controller mode. Check GPIB configuration,
        address, and cable connections.

Error code: 526
Standard message: "GPIB device not assigned"

        "GPIB device could not be assigned"

        During the initialization of the user flatness calibration, the
        external power meter could not be assigned to the GPIB address.
        Check GPIB configuration, address, and cable connections.

Error code: 527

Standard message: "Frequency calibration table empty"

"User Flatness frequency calibration"
"table empty"

There were no frequency calibration points entered in the user
flatness list table

Error code: 535
Standard message: "Proper channels not enabled"

"DPCH channel one is not enabled."

DPCH channel one must be enabled for channel balancing to occur.

"No OCNS channels are enabled."

One or more OCNS channels must be enabled for channel balancing to
occur.

Error code: 600
Standard message: "RPP has tripped."

"*** No custom message ***"

The reverse power protection circuit has been triggered. Repeated
tripping of this circuit can cause damage to the instrument.

Error code: 601
Standard message: "Power search failed."

"*** No custom message ***"

While executing power search, the level meter circuit failed to
return a meaningful value. This event indicates that the power is
in a range that the leveling loop cannot properly level. The power
will be set to the last properly leveled power.

Error code: 605
Standard message: "DSP FW download failed"

"*** No custom message ***"

*** No documentation ***

"Opt 300 BERT capability."

The instrument's firmware was unable to successfully initialize the
internal digital signal processor (DSP) on the bit error rate
tester board for Option 300 capability. Report this error to
Agilent Technologies.

"Option UN7"

The instrument's firmware was unable to successfully initialize the
internal digital signal processor (DSP) on the bit error rate
tester board (Option UN7). Report this error to Agilent
Technologies.

"*** No custom message ***"

        The instrument's firmware was unable to successfully initialize the
        internal digital signal processor (DSP) on the CPU/Motherboard.
        Report this error to Agilent Technologies.

Error code: 606
Standard message: "DSP times out"

        "AnalogMod"

        *** No documentation ***

        "Opt 300 EDGE BERT capability(%ld)."

        The digital signal processor (DSP) on the bit error rate tester
        board failed to respond while Option 300 is operating. Report this
        error to Agilent Technologies.

        "Opt 300 GSM BERT capability(%ld)."

        The digital signal processor (DSP) on the bit error rate tester
        board failed to respond while Option 300 is operating. Report this
        error to Agilent Technologies.

        "Option UN7 capability(%ld)."

        The digital signal processor (DSP) on the bit error rate tester
        board failed to respond while Option UN7 is operating. Report this
        error to Agilent Technologies.

        "BERT flash memory access error."

        The flash memory on the BERT board (Option UN7) failed to respond
        within the appropriate amount of time. If cycling power does not
        correct the problem, report this error to Agilent Technologies.

        "Demodulator communication failed."

        The digital signal processor (DSP) on the demodulator board failed
        to respond within the appropriate amount of time. If cycling power
        does not correct the problem, report this error to Agilent
        Technologies.

        "Demod flash memory access error."

        The flash memory on the DEMOD board failed to respond within the
        appropriate amount of time. If cycling power does not correct the
        problem, report this error to Agilent Technologies.

        "%s"

        The digital signal processor (DSP) failed to respond within the
        appropriate amount of time while accessing the specified file.
        Report this error to Agilent Technologies.

        "CPU/Motherboard DSP or BERT board failed to"
        "respond within an appropriate amount of time."
        "Contact service for help."

        The digital signal processor (DSP) on the CPU/Motherboard or the
        bit error rate tester board failed to respond within the

        appropriate amount of time. Report this error to Agilent
        Technologies.

Error code: 607
Standard message: "DSP returns error."

        "*** No custom message ***"

        The digital signal processor (DSP) is in an indeterminate state.
        Report this error to Agilent Technologies.

        "Opt 300 EDGE BERT capability(%ld)."

        Option 300 DSP for EDGE BERT capability returns an error.

        "Opt 300 GSM BERT capability(%ld)."

        The digital signal processor (DSP) on the bit error rate tester
        board failed to respond while Option 300 is operating. Report this
        error to Agilent Technologies.

        "Option UN7 capability(%ld)."

        The digital signal processor (DSP) on the bit error rate tester
        board failed to respond while Option UN7 is operating. Report this
        error to Agilent Technologies.

Error code: 617
Standard message: "Configuration Error"

        "Analog modulations subsystem not created."

        The hardware control creation process failed due to a configuration
        file conflict or a hardware configuration error. Report this error
        to Agilent Technologies.

        "Baseband generator control could not be created."

        The baseband generator control creation process failed due to a
        configuration file conflict or a hardware configuration error.
        Report this error to Agilent Technologies.

        "Bad board header in fixed board: %s"

        During the system configuration scan of the CPU and motherboards, a
        board with a bad configuration header was detected. Report this
        error to Agilent Technologies.

        "No freq output - bad configuration."

        The frequency control subsystem failed to be created due to a
        hardware configuration problem. Although the user interface appears
        normal, the instrument is not functional. Report this error Agilent
        Technologies.

        "No power output - bad configuration."

        The power control subsystem failed to be created due to a hardware
        configuration problem. Although the user interface appears normal,
        the instrument is not functional. Report this error to Agilent
        Technologies.

"Bad board header in parallel slot: %d"

   During the system configuration scan of parallel bus boards, a
   board with a bad configuration header was detected. Report this
   error to Agilent Technologies.

"Bad board header in serial slot: %d"

   During the system configuration scan of serial bus boards, a board
   with a bad configuration header was detected. Report this error to
   Agilent Technologies.

"IQ modulations subsystem not created."

   The hardware control creation process failed due to a configuration
   file conflict or a hardware configuration error. Report this error
   to Agilent Technologies.

"Found improperly configured devices."

   An improperly configured device was found during the system
   configuration scan. Report this error to the nearest Agilent
   Technologies sales and service office.

"Configuration information file is invalid."
"Please reinstall the file."

   The CONFIG_INFO.TXT file was tampered with. This is a signal that
   the file was modified, but the internal checks were bypassed.

"Option %s is invalid."

   This error is reported when a software option is in the wrong place
   in CONFIG_INFO.TXT. This signals that somebody tried to bypass
   licensing.

"Update of license file failed. Perhaps too many files or flash is"
"full?"

   Happens when user enters/updates license keys. Perhaps too many
   files are on the flash or flash is full? If there is free space on
   flash (or user has HardDrive option 005 in which case flash is not
   used for user files).

"License file not found."
"Creating empty one."

   The license configuration file is always present. If flash was
   reformatted, this warning will be reported. It also means that no
   license keys are currently present (since the file is new).

"Sweep subsystem not created."

   The sweep subsystem creation process failed due to a configuration
   file conflict or a hardware configuration error. Report this error
   to Agilent Technologies.

Error code: 618
Standard message: "RS232 times out"

   "RS232 reset."

        If further input is not received within the timeout time while a
        SCPI command is being processed, the command is aborted and the
        input buffer is cleared.

Error code: 619
Standard message: "DSP code is invalid"

        "BERT DSP code is invalid"

            The BERT board has an invalid revision of DSP/FPGA firmware code.

        "Demodulator main DSP code is invalid"

            The demodulator board has an invalid revision of DSP firmware code.

        "Demodulator board FPGA"

            The demodulator's FPGA code is not the revision that the firmware
            expects.

Error code: 620
Standard message: "Clock Rate Error"

        "Data clock too fast."
        "Option UN7"

            The data clock rate is too high for operation with Option UN7.
            Reduce the data clock rate and try again.

Error code: 621
Standard message: "FPGA download failed:"

        "*** No custom message ***"

            The FPGA code failed to download. Try again, or contact Agilent
            Technologies.

        "*** No custom message ***"

            The FPGA code failed to download. Try again, or contact Agilent
            Technologies.

Error code: 622
Standard message: "Sequence references self"

        "%s"

            The specified sequence is not allowed because it contains a
            reference to itself.

Error code: 623
Standard message: "Out of Lock"

        "Demodulator VCO"

            The A/D 26 MHz clock is not correct. The problem may be with the 10
            MHz reference or the 13 MHz GSM clock.

"Downconverter LO"

> There is a problem with the downconverter. The problem may be with the 10 MHz reference or the 13 MHz GSM clock.

Error code: 624
Standard message: "Lowband coupler detector fault"

> "The lowband detector heater circuit has exceeded its normal"
> "temperature range. This will result in power errors below 3.2 GHz."

> The lowband coupler detector has failed. Report this error to Agilent Technologies.

Error code: 625
Standard message: "Internal pulse generator unlocked"

> "*** No custom message ***"

> *** No documentation ***

Error code: 626
Standard message: "Internal modulation source unlocked"

> "*** No custom message ***"

> *** No documentation ***

Error code: 628
Standard message: "Baseband Generator DAC over range"

> "BBG%d. Reduce the waveform amplitude or reduce the runtime scaling."
> "The output signal will be invalid when this error occurs."

> Reduce the waveform amplitude or reduce the runtime scaling. The Baseband Generator DAC has a range of +/-32767 however not all of this range is available for use. The over range message occurs when the inputs to the D/A converters of the I/Q signals have been overflowed. Some of the range is required for calibration offsets. Some of the range is required for overshoot in the Baseband Generator filters. Typically, a scaling of 70% of the full range will avoid this error. The widest dynamic range is achieved with the largest signal that does not cause the error message to occur. The output signal will be invalid when this error occurs.

Error code: 629
Standard message: "File format invalid"

> "Unable to view/edit selected sequence file. "
> "Single Waveform Sequence files cannot be viewed"
> "or edited at this time."
> "%s"

> This error is reported when an single waveform sequence is selected to and the user tried to view or edit the sequence from the front panel. %s is the single waveform sequence filename

"Incorrect sequence file type."
"%s"

     The ARB sequence file operation failed because the specified file
     was not a sequence file of the correct type. This can happen when
     the user tries to list a single waveform sequence file with the
     multi-waveform sequence SCPI query or vice-versa. %s is the
     sequence filename that was specified.

"Invalid single waveform file selected. Each "
"segment must have at least 60 samples and "
"segments cannot exceed the waveform size."
"%s"

     This error is reported when an invalid single waveform sequence is
     selected to be played in the ARB system. A valid single waveform
     sequence must have a minimum of 60 samples per segment and no
     segment may have an offset plus length that exceeds the waveform's
     file size. %s is the single waveform sequence filename

"Invalid Waveform File selected. The file must have"
"a minimum of 60 samples and the same number of I and"
"Q values."
"%s"

     This error is reported when an invalid waveform is selected to be
     played in the ARB system. A valid waveform file must have the same
     number of I values as Q values and must contain a minimum of 60
     samples. %s is the filename

"Sequence contains an invalid single waveform "
"sequence."

     This is reported when an invalid single waveform sequence is found
     in a sequence file.

"Sequence contains an invalid waveform."

     This is reported when an invalid waveform is found in a sequence
     file.

Error code: 630
Standard message: "Arb Sequence Error"

"Unable to reset sequence on baseband board"
"after change in file."
"/USER/BBG%d%s"

     A change was made to a waveform file being referenced by the
     sequencer that has made the current sequence invalid. It is likely
     that the file contains too few samples. Correct the file size or
     the lengths and offsets in single waveform sequences and reenable
     the personality. %d is the number of the baseband board on which
     the error occurred. %s is the name of the file that caused the
     problem.

"Failed to write Arb sequence to sequencer."

     This is reported when there is a failure in playing the selected
     sequence.

"Sequence contains too many levels of sequences"

"containing other sequences. Maximum nesting level"
"is 32."

    This is reported when an Arb sequence contains too many levels of
    sequences within sequences. If a sequence contains another
    sequence, that is one level of nesting. If that second sequence
    contains yet another sequence, that is a second level of nesting.
    The maximum depth of sequence nesting is 32 levels.

"Single wave segment offset must be even."
"Value set to the next lower, even value."

    This error is reported when the user attempts to specify a single
    waveform sequence in which a segment begins at an odd sample
    offset. Due to hardware limitations of the sequencer, segments must
    begin on an even sample pair boundary.

"Single wave segment length must be at least"
"60 samples. Value set to minimum."

    This error is reported when the user attempts to specify a single
    waveform sequence in which a segment is less than 2 samples. Due to
    hardware limitations of the sequencer, segments must be at least 60
    samples long.

"Sequence contains too many segments."

    This is reported when an Arb sequence contains too many waveform
    segments. The maximum number of segments that can be added to the
    sequencer is not affected by the repetition counts of individual
    segments.

Error code: 632
Standard message: "Power search failed. Power Unleveled."

    "*** No custom message ***"

    While executing power search, the reference measurement indicated
    an unleveled condition. This event indicates that the power level
    requested is larger than the level the instrument can provide. The
    power will be set to the last properly leveled power.

    "*** No custom message ***"

    While executing power search, the level meter closed loop reference
    value failed to settle. This event indicates that the power is in
    an unstable condition. The power will be set to the last properly
    leveled power.

Error code: 633
Standard message: "Power search failed. Reference reading unsettled."

    "*** No custom message ***"

    While executing power search, the level meter closed loop reference
    value failed to settle. This event indicates that the power is in
    an unstable condition. The power will be set to the last properly
    leveled power.

Error code: 634

Standard message: "Power search failed. ALC open loop unsettled."

    "*** No custom message ***"

      While executing power search, the level meter open loop voltage
      failed to settle. This event indicates that the power is in an
      unstable condition. The power will be set to the last properly
      leveled power.

Error code: 635
Standard message: "Power search failed. ALC abus voltage unsettled."

    "*** No custom message ***"

      While executing power search, the level meter ALC voltage failed to
      settle. This event indicates that the power is in an unstable
      condition. The power will be set to the last properly leveled
      power.

Error code: 636
Standard message: "Power search failed. DAC value exceeded range."

    "*** No custom message ***"

      While executing power search, the value requested for the offset
      compensation DAC was beyond its available range. This event
      indicates a low power level that cannot be compensated with the
      hardware. The power will be set to the last properly leveled power.

Error code: 637
Standard message: "Power search failed. Excessive iterations."

    "*** No custom message ***"

      While executing power search, the number of iterations in the power
      search algorithm exceeded the allowable limit. This event indicates
      an unstable power level. The power will be set to the last properly
      leveled power.

Error code: 640
Standard message: "WB I/Q Settings conflict"

    "I/Q and WB I/Q cannot be on at the same time:"
    "Mux I/Q path and WB I/Q path cannot be on"
    "simultaneously"

      The modulation types I/Q and WB I/Q cannot be used at the same
      time. This error is reported when the user attempts to activate one
      type of modulation while the other is activated. The modulation
      type that was most recently requested will be turned on and the
      modulation that was on at the time will be turned off.

    "WB I/Q and AM WB cannot be on at the same time:"
    "Mux I/Q path and WB I/Q path cannot be on"
    "simultaneously"

      The modulation types I/Q and AM WB cannot be used at the same time.
      This error is reported when the user attempts to activate one type
      of modulation while the other is activated. The modulation type

that was most recently requested will be turned on and the
modulation that was on at the time will be turned off.

Error code: 641
Standard message: "File header error"

        "Could not perform header operation on"
        "'%s'"

        There was a problem performing a header operation on the given
        file.

Error code: 642
Standard message: "Security error"

        "Security level cannot be decreased since instrument is already in"
        "secure mode."

        This error occurs when trying to change the security level to a
        less secure one and instrument is already in secure mode. The level
        in secure mode can only be increased.

Error code: 700
Standard message: "State Save Recall Error"

        "Unable to read the secondary frame"
        "instrument state file."
        "The secondary frame has been turned off."

        The format that is currently active needed the secondary frame
        instrument state file to generate the secondary frame in pattern
        RAM, but the instrument state file was either not previously saved
        or it was deleted. You must create and save a secondary frame
        instrument state.

        "Recalled state has a bad checksum."
        "No instrument state change."
        "%s"

        The state file was corrupt or out-of-date, so the recall was
        ignored. If state file exists, delete explicitly using the memory
        catalog.

        "Attempt to delete a non-saved state register."
        "Delete register ignored."

        States that have not been saved cannot be deleted.

        "Unable to delete saved state. No instrument"
        "state change."

        Could not delete a saved state. Previous error messages may make
        why this error was reported clear.

        "Recall data from different FW revision."
        "No instrument state change."
        "%s"

        An attempt was made to recall a state that was saved with an
        incompatible version of the instrument firmware. This typically

occurs when a state file is copied from an instrument with a newer version of firmware to an instrument with an older version of firmware. Newer versions of instrument firmware can read older state files. TODO: Parameter is filename.

"Recall non-saved state register."
"Recall ignored."

A recall was attempted for a state register that is unused. If state file exists, delete explicitly using catalog.

"Failed to recall the instrument state."
"%s"

The instrument could not recall an instrument state. Previous error messages may make why this error was reported clear.

"Failed to save the instrument state."
"%s"

The instrument could not save an instrument state. Previous error messages may make why this error was reported clear.

"Save state ignored as the save recall registers could"
"not be written."

The instrument could not save an instrument state because it could not write out the information of which save/recall registers are in use. Previous error messages may make why this error was reported clear.

"Could not save last state file."
"Setting to Power On Preset."

The instrument could not save the last state file, so the power-on behavior has been set to Power On Preset.

Error code: 702
Standard message: "Load/Store Error"

"Cannot create a filter with no coefficients."

A filter must have at least one coefficient specified.

"Cannot create a shape with less than 2 points."

Burst shape files must have two or more points for both the rise and the fall shape specification.

"Cannot create a Modulation with less than"
"one bit per symbol."

A modulation must have at least two states specified.

"Invalid modulation file."

The user modulation file is invalid. The file is either corrupt or is not a modulation file.

"Unrecognized FIR file version."

The file is either corrupt or is not a FIR file.

"Unrecognized modulation file version."

The user modulation file has an unrecognized version. The file is
either corrupt or is not a modulation file.

"Unrecognized shape file version."

The Burst Shape file is corrupted, or is not in the proper format.

Error code: 703
Standard message: "Feature not supported"

"RS232 flow control is not supported."

Command is not supported for RS232 communication.

"The selected waveform was generated using an"
"option not present on this instrument."
"'%s'"

Selecting a file that was generated by another instrument with an
option that is not on the current instrument will generate this
error. %s is the filename.

"Software update required:"
"Please download the latest application from"
"http://www.agilent.com/find/signalstudio."

Missing parameter. When the state is on, Uplink Pilot requires all
following fields: power in db, SYNC code, and time offset.

Error code: 704
Standard message: "Span adjusted due to selected sweep time"

"Choose a wider span or shorter sweep time to avoid"
"this conflict."

*** No documentation ***

Error code: 800
Standard message: "Digital module configuration error"

"Could not configure FPGA(s) on the Digital module: %s. Report this"
"error to Agilent Technologies."

This error is reported when the FPGAs on the digital module FPGAs
failed to be configured. The digital module will not work properly
in this state.

Error code: 801
Standard message: "Digital module VCO unlock error"

"The VCO on the digital module is unlocked. Check to make sure the"
"clock settings are correct and the correct clock reference is"
"connected."

The VCO on the digital module is unlocked. Check to make sure the
clock settings are correct and the correct clock reference is

connected.

Error code: 802
Standard message: "Digital module overrange error"

    "The output data is being clipped by the resampler. Reduce the scaling "
    "under the data menu to correct this problem."

       This error is reported when the output of the resampler is being
       clipped.

Error code: 803
Standard message: "Digital module input FIFO overflow error"

    "There are more samples being produced than can be consumed at the"
    "current clock rate. Verify that the digital module clock is set up"
    "properly."

       This error is reported when the digital module clock setup is not
       synchronized with the rate the samples are entering the digital
       module. Verify that the input clock rate matches the specified
       clock rate under the clock setup menu.

Error code: 804
Standard message: "Digital module input FIFO underflow error"

    "There are not enough samples being produced for the current clock"
    "rate. Verify that the digital module clock is set up properly."

       This error is reported when the digital module clock setup is not
       synchronized with the rate the samples are entering the digital
       module. Verify that the input clock rate matches the specified
       clock rate under the clock setup menu.

Error code: 805
Standard message: "Digital module output FIFO overflow error"

    "There are more samples being produced than can be consumed at the"
    "current clock rate. Verify that the digital module clock is set up"
    "properly."

       This error is reported when the output FIFO is overflowing in the
       digital module. This error can be generated if and external clock
       or its reference is not set up properly, or if the internal VCO is
       unlocked.

Error code: 806
Standard message: "Digital module output FIFO underflow error"

    "There are not enough samples being produced for the current clock"
    "rate. Verify that the digital module clock is set up properly."

       This error is reported when the output FIFO is underflowing in the
       digital module. This error can be generated if and external clock
       or its reference is not set up properly, or if the internal VCO is
       unlocked.

Error code: 807
Standard message: "Unexpected digital module interface FPGA"

        "The interface FPGA on the digital module is not up to date and needs"
        "to be updated to insure proper operation. Please refer to the manual"
        "for details on updating the module's interface FPGA."

        This error is reported when and ssio interface FPGA is found with a
        valid, but old version of the interface FPGA.

Error code: 808
Standard message: "Digital module unlock error"

        "The output clock is not locked. The clock output may not be valid."
        "Please make sure all references and clocks are connected and the"
        "module is set up properly."

        This error occurs when the output clock modules are not locked.
        This can occur when the externally supplied clock is not stable,
        the module is not set up properly, or the internal clock is not
        locked. If the error persists after fixing all external causes,
        then the module may need to be reset by turning it off then on.
        This will set up the clock modules properly.

Error code: 809
Standard message: "Digital module missing clock"

        "Please make sure the external clock is connected and the clock"
        "settings are correct."

        This error occurs when the output clock modules are not receiving a
        clock. This usually happens when the external or Device clock
        source is selected and there is no clock source connected to the
        clock input. If the error persists after fixing all external
        causes, then the module may need to be reset by turning it off then
        on. This will set up the clock modules properly.

Error code: 810
Standard message: "Enhanced ACPR module overheated"

        "The Enhanced ACPR Module is overheating and had been turned off as a"
        "precautionary measure. Please contact Product Support for assistance"

        This error is reported when the Enhanced ACPR Module is
        overheating; this could indicate a failure of the cooling fans and
        the unit has been turned off as a precautionary measure.

//
//
////   ////
////   Standard SCPI Parser Errors   ////
////   ////
//
//

// The errors in this file are not reported directly by main firmware but
// are reported by the LDS SCPI parser. The documentation in this file
// is automatically appended to the autogenerated documentation of errors
// reported by main firmware.

Error code: -440
Standard message: "Query UNTERMINATED after indefinite response"

        "*** No custom message ***"

        A query was received in the same program message in which a query
        requesting an indefinite response was executed (see IEEE 488.2,
        6.3.7.5).

Error code: -430
Standard message: "Query DEADLOCKED"

        "*** No custom message ***"

        A condition causing a DEADLOCKED query error occurred
        (see IEEE 488.2, 6.3.1.7). For example, both the input buffer
        and the output buffer are full and the device cannot continue.

Error code: -430
Standard message: "Query DEADLOCKED"

        "*** No custom message ***"

        A SCPI output queue has filled, preventing further SCPI command
        execution, and there is no more room left in the corresponding SCPI
        input queue to accept a query to read from the output queue. The
        system automatically discards output to correct the deadlock.

Error code: -420
Standard message: "Query UNTERMINATED"

        "*** No custom message ***"

        A condition causing an UNTERMINATED query error occurred (see
        IEEE 488.2, 6.3.2.2). For example, the device was addressed to
        talk and an incomplete program message was received.

Error code: -410
Standard message: "Query INTERRUPTED"

        "*** No custom message ***"

        A condition causing an INTERRUPTED query error occurred (see
        IEEE 488.2, 6.3.2.7). For example, a query was followed by DAB
        or GET before a response was completely sent.

Error code: -400
Standard message: "Query Error"

        "*** No custom message ***"

        This is a generic query error for devices that cannot detect
        more specific errors. The code indicates only that a query
        error as defined in IEE 488.2, 11.5.1.1.7 and 6.3 has occurred.

Error code: -350
Standard message: "Queue overflow"

"*** No custom message ***"

This is a specific code entered into the queue in lieu of the code
that caused the error. This message indicates that there is no more
room in the queue and an error occurred but was not recorded.

Error code: -278
Standard message: "Macro header not found"

"*** No custom message ***"

A syntactically legal macro label in the *GMC? query could
not be executed because the header was not previously defined.

Error code: -277
Standard message: "Macro redefinition not allowed"

"*** No custom message ***"

The macro label defined in the *DMC command could not be
executed because the macro label was already
defined (see IEEE 488.2, 10.7.6.4).

Error code: -276
Standard message: "Macro recursion error"

"*** No custom message ***"

A syntactically legal macro program data sequence could not
be executed because the device found it to be
recursive (see IEEE 488.2, 10.7.6.4).

Error code: -275
Standard message: "Macro definition too long"

"*** No custom message ***"

A syntactically legal macro program data sequence could not
be executed because the string or block contents were too
long for the device to handle (see IEEE 488.2, 10.7.6.1).

Error code: -274
Standard message: "Macro parameter error"

"*** No custom message ***"

The macro definition improperly used a macro parameter
placeholder (see IEEE 488.2, 10.7.3).

Error code: -273
Standard message: "Illegal macro label"

"*** No custom message ***"

        The macro label defined in the *DMC command was a legal string
        syntax, but could not be accepted by the device (see
        IEEE 488.2, 10.7.3 and 10.7.6.2). For example, the label was
        too long, the same as a common command header, or contained
        invalid header syntax.

Error code: -272
Standard message: "Macro execution error"

        "*** No custom message ***"

        A syntactically legal macro program data sequence could not
        be executed due to an error within the macro definition
        (see IEEE 488.2, 10.7.6.3).

Error code: -271
Standard message: "Macro syntax error"

        "*** No custom message ***"

        A syntactically legal macro program data sequence, written
        in accordance with IEEE 488.2, 10.7.2, could not be executed
        due to a syntax error within the macro definition
        (see IEEE 488.2, 10.7.6.3).

Error code: -270
Standard message: "Macro error"

        "*** No custom message ***"

        A macro-related execution error occurred. This error message
        is used when the device cannot detect the more specific
        errors described for errors -271 through -279.

Error code: -261
Standard message: "Math error in expression"

        "*** No custom message ***"

        A syntactically legal expression program data element could
        not be executed due to a math error. For example, a
        divide-by-zero was attempted. The definition of a math
        error is device-specific.

Error code: -260
Standard message: "Expression error"

        "*** No custom message ***"

        An expression data element-related error occurred. This
        error message is used when the device cannot detect the
        more specific errors described for errors -261 through -269.

Error code: -233
Standard message: "Invalid version"

"*** No custom message ***"

        A legal program data element was parsed but could not be
        executed because the version of the data is incorrect to
        the device. This particular error is used when file or block
        data elements are recognized by the instrument, but cannot
        be executed for reasons of version incompatibility. For
        example, a non-supported file version or a non-supported
        instrument version.

Error code: -222
Standard message: "Data out of range"

        "*** No custom message ***"

        A legal program data element was parsed but could not be
        executed because the interpreted value was outside the legal
        range defined by the device (see IEEE 488.2 11.5.1.1.5).

Error code: -220
Standard message: "Parameter error"

        "*** No custom message ***"

        A program data element related error has occurred. This
        particular error message is used if the device cannot detect
        a more specific error described for errors -221 through -229.

Error code: -215
Standard message: "Arm deadlock"

        "*** No custom message ***"

        The arm source for the initiation of a measurement is set to
        GET and a subsequent measurement query is received. The
        measurement cannot begin until a GET is received, but the
        GET would cause an INTERRUPTED error.

Error code: -213
Standard message: "Init ignored"

        "*** No custom message ***"

        A request for a measurement initiation was ignored as another
        measurement was already in progress.

Error code: -212
Standard message: "Arm ignored"

        "*** No custom message ***"

        An arming signal was received and recognized by the device but was
        ignored.

Error code: -211
Standard message: "Trigger ignored"

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"*** No custom message ***"

          A GET, *TRG, or triggering signal was received and recognized
          by the device, but was ignored because of device timing
          considerations. For example, the device was not ready to
          respond.

Error code: -210
Standard message: "Trigger error"

          "*** No custom message ***"

          A GET,*TRG, or a triggering signal could not be executed due
          to an error.

Error code: -202
Standard message: "Settings lost due to rtl"

          "*** No custom message ***"

          A setting associated with a hard local control (see
          IEEE 488.2, 5.6.15) was lost when the device changed to
          LOCS from REMS or to LWLS from RWLS.

Error code: -201
Standard message: "Invalid while in local"

          "*** No custom message ***"

          A command is not executable while the device is in local mode
          due to a hard local control (see IEEE 488.2, 5.6.1.5). For
          example, a device with a rotary switch receives a message
          which would change the switch's state, but the device is in
          local so the message cannot be executed.

Error code: -200
Standard message: "Execution Error"

          "*** No custom message ***"

          For devices that cannot detect more specific errors, this
          code indicates only that an execution error as defined in
          IEEE 488.2, 11.5.1.1.5 has occurred.

Error code: -184
Standard message: "Macro parameter error"

          "*** No custom message ***"

          A command inside the macro definition had the wrong number
          or type of parameters.

Error code: -183
Standard message: "Invalid inside macro definition"

          "*** No custom message ***"

        The program message unit sequence, sent with a *DDT or a
        *DMC command, is syntactically invalid (see IEEE 488.2,
        10.7.6.3).

Error code: -181
Standard message: "Invalid outside macro definition"

        "*** No custom message ***"

        A macro parameter placeholder ($<number) was encountered
        outside of a macro definition.

Error code: -180
Standard message: "Macro error"

        "*** No custom message ***"

        An error was encountered when defining a macro or executing a macro.
        Specific details are not available.

Error code: -178
Standard message: "Expression data not allowed"

        "*** No custom message ***"

        A legal expression data was encountered, but was not allowed
        by the device at this point in parsing.

Error code: -171
Standard message: "Invalid expression"

        "*** No custom message ***"

        The expression data element was invalid (see IEEE 488.2,
        7.7.7.2). For example, unmatched parentheses or an
        illegal character.

Error code: -170
Standard message: "Expression data error"

        "*** No custom message ***"

        An error was encountered when parsing an expression data element.
        Specific details are not available.

Error code: -168
Standard message: "Block data not allowed"

        "*** No custom message ***"

        A legal block data element was encountered, but not allowed
        by the device at this point in the parsing.

Error code: -161
Standard message: "Invalid block data"

        "*** No custom message ***"

        A block data element was expected, but was invalid (see
        IEEE 488.2, 7.7.6.2). For example, an END message was received
        before the end length was satisfied.

Error code: -160
Standard message: "Block data error"

        "*** No custom message ***"

        An error was encountered when parsing a block data element.
        Specific details are not available.

Error code: -158
Standard message: "String data not allowed"

        "*** No custom message ***"

        A string data element was encountered, but not allowed by the
        device at this point in the parsing.

Error code: -151
Standard message: "Invalid string data"

        "*** No custom message ***"

        A string data element was expected, but was invalid (see
        IEEE 488.2, 7.7.5.2). For example, an END message was received
        before the terminal quote character.

Error code: -150
Standard message: "String data error"

        "*** No custom message ***"

        An error was encountered when parsing a string data element.
        Specific details are not available.

Error code: -148
Standard message: "Character data not allowed"

        "*** No custom message ***"

        A legal character data element was encountered where prohibited
        by the device.

Error code: -144
Standard message: "Character data too long"

        "*** No custom message ***"

        The character data element contains more than twelve
        characters (see IEEE 488.2, 7.7.1.4).

Error code: -141

Standard message: "Invalid character data"

        "*** No custom message ***"

            Either the character data element contains an invalid character
            or the particular element received is not valid for the header.

Error code: -140
Standard message: "Character data error"

        "*** No custom message ***"

            An error was encountered when parsing a character data element.
            Specific details are not available.

Error code: -138
Standard message: "Suffix not allowed"

        "*** No custom message ***"

            A suffix was encountered after a numeric element that does
            not allow suffixes.

Error code: -134
Standard message: "Suffix too long"

        "*** No custom message ***"

            The suffix contained more than twelve characters (see IEEE
            488.2, 7.7.3.4).

Error code: -131
Standard message: "Invalid suffix"

        "*** No custom message ***"

            The suffix does not follow the syntax described in IEEE 488.2,
            7.7.3.2, or the suffix is inappropriate for this device.

Error code: -130
Standard message: "Suffix error"

        "*** No custom message ***"

            An error was encountered when parsing a suffix.
            Specific details are not available.

Error code: -128
Standard message: "Numeric data not allowed"

        "*** No custom message ***"

            A legal numeric data element was received, but the device does
            not accept one in this position for the header.

Error code: -124

Standard message: "Too many digits"

        "*** No custom message ***"

            The mantissa of a decimal-numeric data element contained more
            than 255 digits excluding leading zeros (see IEEE 488.2,
            7.7.2.4.1).

Error code: -123
Standard message: "Exponent too large"

        "*** No custom message ***"

            The magnitude of an exponent was greater than 32000 (see IEEE
            488.2, 7.7.2.4.1).

Error code: -121
Standard message: "Invalid character in number"

        "*** No custom message ***"

            An invalid character for the data type being parsed was
            encountered. For example, an alpha in a decimal numeric or
            a "9" in octal data.

Error code: -120
Standard message: "Numeric data error"

        "*** No custom message ***"

            An error was encountered when parsing a data element that appears
            to be numeric including non-decimal numeric types.
            Specific details are not available.

Error code: -114
Standard message: "Header suffix out of range"

        "*** No custom message ***"

            The value of a header suffix attached to a program mnemonic
            makes the header invalid.

Error code: -113
Standard message: "Undefined header"

        "*** No custom message ***"

            The header is syntactically correct, but it is undefined for
            this specific device. For example, *XYZ is not defined for
            any device.

Error code: -112
Standard message: "Program mnemonic too long"

        "*** No custom message ***"

            The header contains more than twelve characters (see IEEE

              488.2, 7.6.1.4.1).

Error code: -111
Standard message: "Header separator error"

        "*** No custom message ***"

        A character that is not a legal header separator was encountered
        while parsing the header.

Error code: -110
Standard message: "Command header error"

        "*** No custom message ***"

        An error was detected in the header. This message is used when
        the device cannot detect the more specific errors described for
        errors -111 through -119.

Error code: -109
Standard message: "Missing parameter"

        "*** No custom message ***"

        Fewer parameters were received than required for the header.
        For example, the *ESE common command requires one parameter,
        so receiving *ESE is not allowed.

Error code: -108
Standard message: "Parameter not allowed"

        "*** No custom message ***"

        More parameters were received than expected for the header. For
        example, the *ESE common command only accepts one parameter, so
        receiving *ESE 0,1 is not allowed.

Error code: -105
Standard message: "GET not allowed"

        "*** No custom message ***"

        A Group Execute Trigger was received within a program message
        (see IEEE 488.2, 7.7). Correct the GPIB controller program so
        that the GET does not occur within a line of GPIB program code.

Error code: -104
Standard message: "Data type error"

        "*** No custom message ***"

        The parser recognized a data element that is not allowed.
        For example, numeric or string data was expected, but block
        data was encountered.

Error code: -103

Standard message: "Invalid separator"

        "*** No custom message ***"

        The parser was expecting a separator and encountered an illegal
        character. For example, the semicolon was omitted after a
        program message unit.

Error code: -102
Standard message: "Syntax error"

        "*** No custom message ***"

        An unrecognized command or data type was encountered. For
        example, a string was received when the device does not
        accept strings.

Error code: -101
Standard message: "Invalid character"

        "*** No custom message ***"

        A syntactic command contains a character that is invalid for
        that type. For example, a header containing an ampersand,
        SETUP&. This error might be used in place of error
        numbers -114, -121, -141 and some others.

Error code: -100
Standard message: "Command error"

        "*** No custom message ***"

        This is a generic syntax error for devices that cannot detect
        more specific errors. The code indicates only that a command
        error as defined in IEEE 488.2, 11.5.1.1.4 has occurred.