Error Messages Supplement

Agilent Technologies
ESA Spectrum Analyzers

This document contains error messages which may be displayed when operating Phase Noise Measurement: Option 226 or Modulation Analysis: Option 229.

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Description

This supplement documents additional error messages.

Procedure

It is recommended that you locate this supplement at the end of the error messages chapter in one of the following guides:

- *Agilent Technologies ESA Spectrum Analyzers User's Guide*
- *Agilent Technologies ESA Spectrum Analyzers Programmer's Guide*
- *Agilent Technologies ESA Spectrum Analyzers Service Guide*

Error Messages Supplement

The following error messages may be generated when operating the Phase Noise Measurement Personality: Option 226 or Modulation Analysis: Option 229.

Greater than 10000: Measurement Applications Error Messages

An error detected with a number greater than 10000 indicates the instrument has detected an error relating to a measurement application.

10413 `B7D DSP Code Install Fail Opt.229.Contact your Service Center.`

The Digital Signal Processor algorithm files required to perform the demodulation are not present in the analyzer. Reinstall the measurement personality and contact your service center.

10416 `B7D DSP Code Reload Fail Opt.229.Contact your Service Center.`

The Digital Signal Processor algorithm files required to perform the demodulation are corrupt and cannot be loaded properly. Reinstall the measurement personality and contact your service center.

10412 `Cal Data corrupt. Wideband cal failed. Using previous data.`

Wideband calibration procedure failed for an unknown reason. New calibration data was not saved. Previous wideband calibration data is being used, if available. However, it is not acceptable. Before re-attempting Wideband Cal, ensure connection between the **AMPTD REF OUT** and the **INPUT 50 Ω** is in place. If the error persists, get in touch with your service center.

10421 `Cannot lock to carrier.`

This error only occurs when attempting to demodulate OFFSET QPSK signals. It indicates that the demodulation algorithm is unable to lock to your signal. Possible causes may be:

1. There is no carrier signal.
2. Carrier signal is present, but Demod settings do not match the modulation format of the OFFSET QPSK signal being measured.

3. OFFSET QPSK signal is too noisy to achieve carrier lock.

10418 `Demod Format setting does not allow this value for Points/Symbol.`

Invalid Points/Symbol selection attempted for the given Demod Format setting.

None `Invalid format: CSV files are not supported by this measurement.`

When utilizing the Phase Noise Personality: Option 226, the *.CSV file format is not available.

10411 `Measurement uncalibrated, symbol rate exceeds +/-10% nominal.`

Wideband calibration corrections cannot be applied to current demodulation results, due to the **Symbol Rate** setting exceeding +/-10% of the nominal value. Results may not meet specified demodulation performance levels.

10410 `Measurement uncalibrated, wideband calibration required.`

Wideband calibration corrections cannot be applied to the current demodulation results. Results will not meet specified demodulation performance levels until **Wideband Cal** has been selected and successfully performed.

10414 `Opt 229 DSP algorithm code file requires upgrade.`

The Digital Signal Processing algorithm code file revision is not supported by the currently loaded personality version. Refer to the user's guide for the personality in use for more information on installation/upgrade.

10415 `Opt 229 DSP algorithm coef. file requires upgrade.`

The Digital Signal Processor algorithm coefficient file revision is not supported by the currently loaded personality version. Refer to the user's guide for the personality in use for more information on installation/upgrade.

10403 `Sync word not found in frame (TSC).`

One or more active EDGE bursts that match the Normal Burst Type have been detected in the RF Input signal, but none contain the selected Training Sequence Code (TSC). The search was performed over the complete EDGE frame.

10404 `Sync word not found in specified timeslot (TSC).`

One or more active EDGE bursts that match the Normal Burst Type have been detected in the RF Input signal, but none contain the selected Training Sequence Code (TSC). The search was only performed over the specified timeslot setting.

None `This measurement does not support the *.CSV file format.`

When utilizing the Phase Noise Personality: Option 226, *.CSV (comma separated values) file format is not available.

10420 `Valid burst not found.`

This error only occurs when **RF Amptd** is selected for **Burst Sync**. It indicates that a valid burst envelope which meets the specified Burst Search Threshold was not found within the specified Burst Search Length. Note that the demodulation measurement will proceed by attempting to demodulate the signal without Burst Sync alignment. Possible causes may be:

1. Carrier signal is not actually bursted.
2. Burst Search Threshold and/or Burst Search Length may need to be adjusted.

10401 `Valid EDGE burst not found in frame (TSC).`

No active EDGE bursts that match the Normal Burst Type have been detected in the RF input signal. The search was performed over the complete EDGE frame.

10402 `Valid EDGE burst not found in specified timeslot (TSC).`

No active EDGE bursts that match the Normal Burst Type have been detected in the RF input signal. The search was only performed over the specified timeslot setting.

10400 `Valid signal not found.`

This error is normally generated because of one of the following reasons:

1.There is no carrier signal.
2.The carrier signal power has changed during the measurement, causing ADC to over/under range.
3.There is some other modulation problem that will prevent the measurement from being made.This problem must be corrected before the measurement can continue.

10409 `Wideband calibration not valid until Align Now, All performed.`

Wideband calibration corrections cannot be applied to current demodulation results. Results will not meet specified demodulation performance levels until an **Align Now**, **All** has been performed.