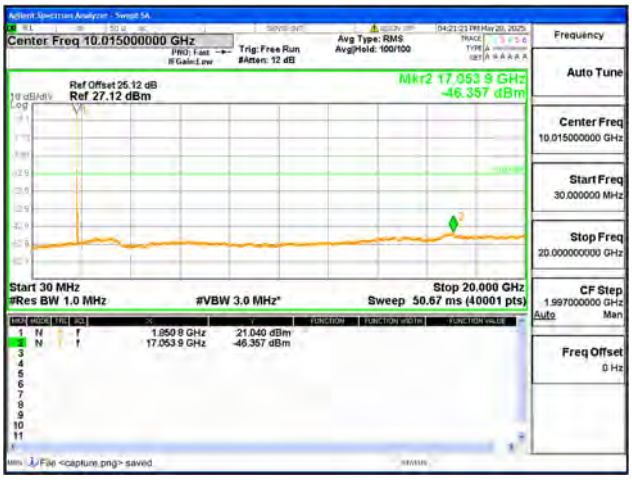
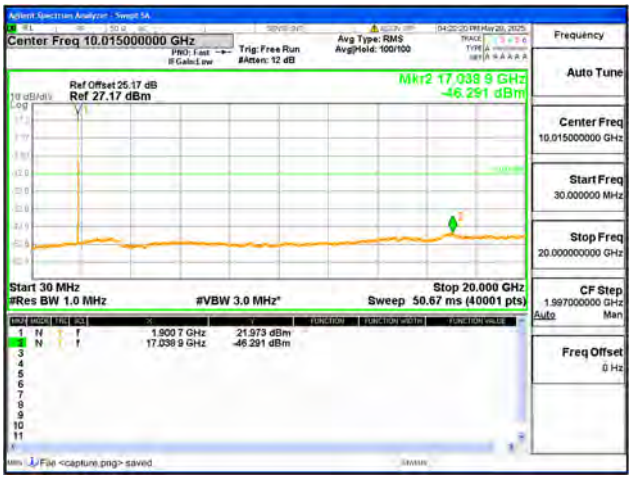


B25 / 15MHz / Low CH / QPSK

B25 / 15MHz / Mid CH / QPSK



B25 / 15MHz / High CH / QPSK

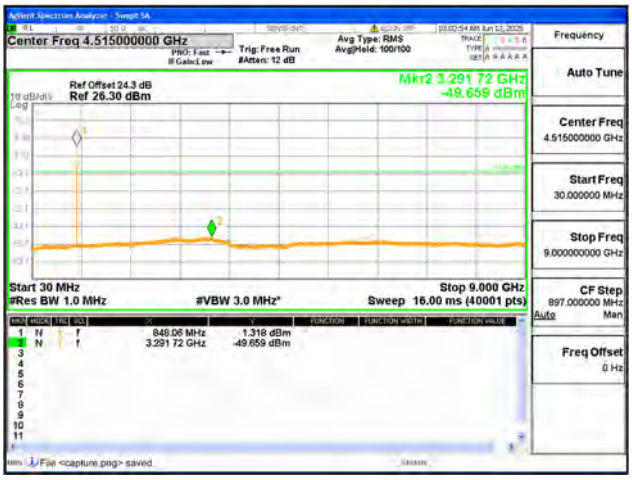
B25 / 20MHz / Low CH / QPSK

B25 / 20MHz / Mid CH / QPSK

B25 / 20MHz / High CH / QPSK

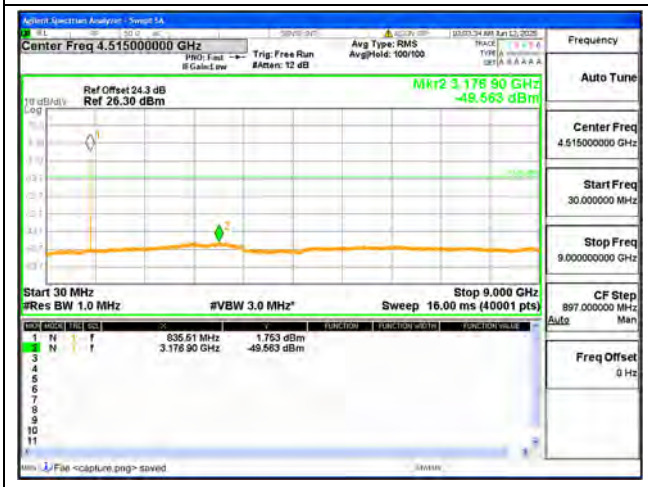
B26 / 1.4MHz / Low CH / QPSK

B26 / 1.4MHz / Mid CH / QPSK



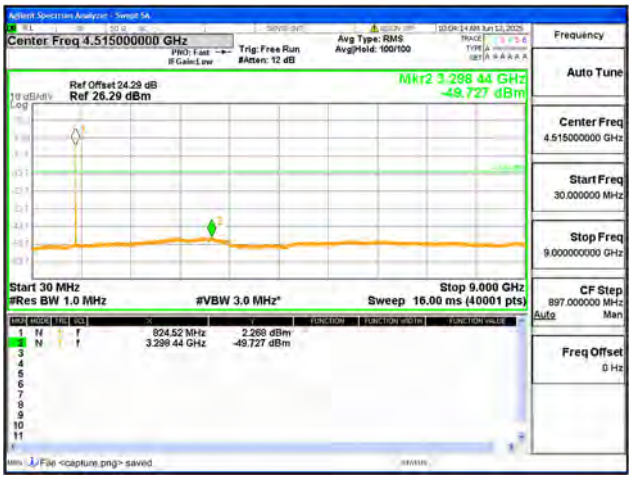
B26 / 1.4MHz / High CH / QPSK

B26 / 3MHz / Low CH / QPSK



B26 / 3MHz / Mid CH / QPSK

B26 / 3MHz / High CH / QPSK



B26 / 5MHz / Low CH / QPSK

B26 / 5MHz / Mid CH / QPSK

B26 / 5MHz / High CH / QPSK

B26 / 10MHz / Low CH / QPSK

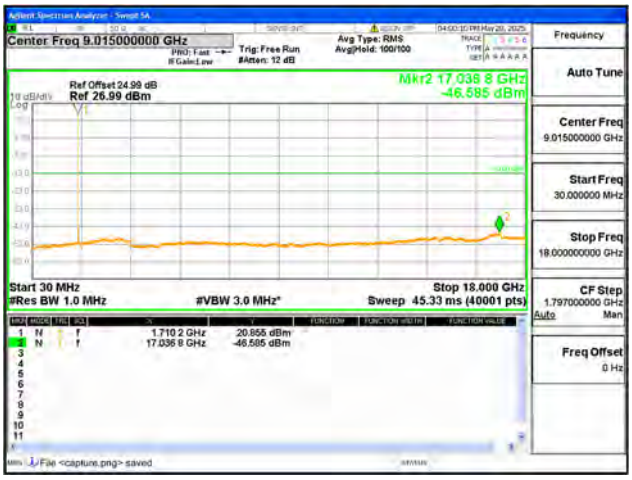
B26 / 10MHz / Mid CH / QPSK

B26 / 10MHz / High CH / QPSK

B26 / 15MHz / Low CH / QPSK

B26 / 15MHz / Mid CH / QPSK

B26 / 15MHz / High CH / QPSK



B66 / 1.4MHz / Low CH / QPSK

B66 / 1.4MHz / Mid CH / QPSK

B66 / 1.4MHz / High CH / QPSK

B66 / 3MHz / Low CH / QPSK

B66 / 3MHz / Mid CH / QPSK

B66 / 3MHz / High CH / QPSK

B66 / 5MHz / Low CH / QPSK

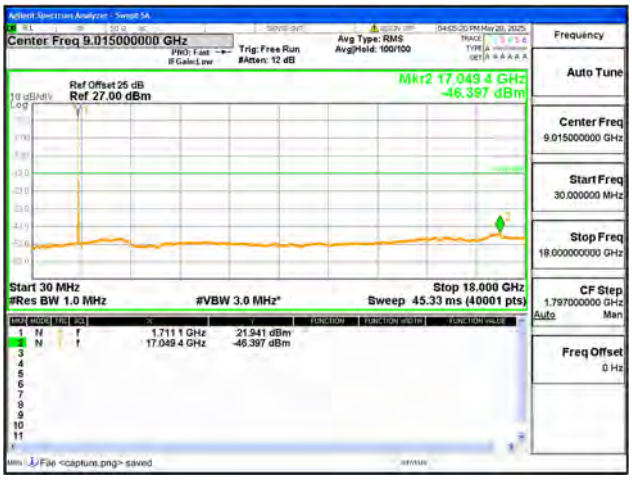
B66 / 5MHz / Mid CH / QPSK

B66 / 5MHz / High CH / QPSK

B66 / 10MHz / Low CH / QPSK

B66 / 10MHz / Mid CH / QPSK

B66 / 10MHz / High CH / QPSK



B66 / 15MHz / Low CH / QPSK

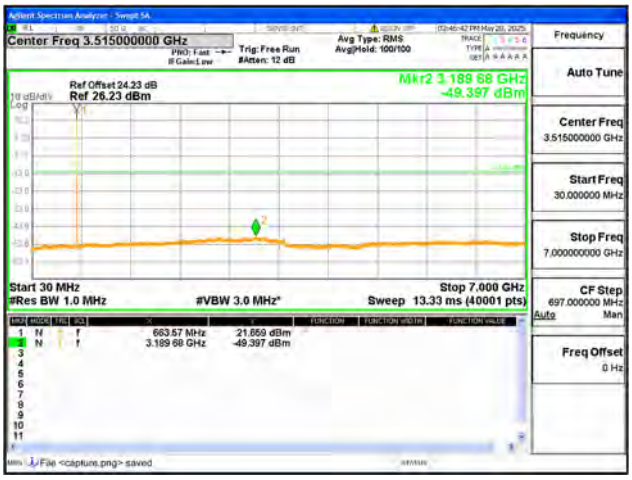
B66 / 15MHz / Mid CH / QPSK

B66 / 15MHz / High CH / QPSK

B66 / 20MHz / Low CH / QPSK

B66 / 20MHz / Mid CH / QPSK

B66 / 20MHz / High CH / QPSK

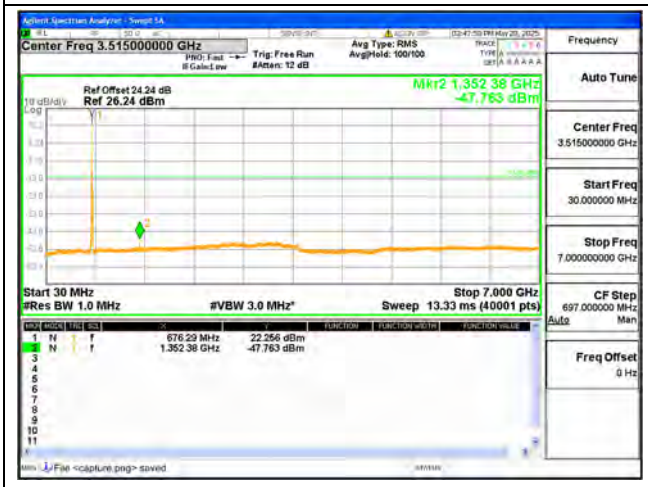


B71 / 5MHz / Low CH / QPSK

B71 / 5MHz / Mid CH / QPSK

B71 / 5MHz / High CH / QPSK

B71 / 10MHz / Low CH / QPSK



B71 / 10MHz / Mid CH / QPSK

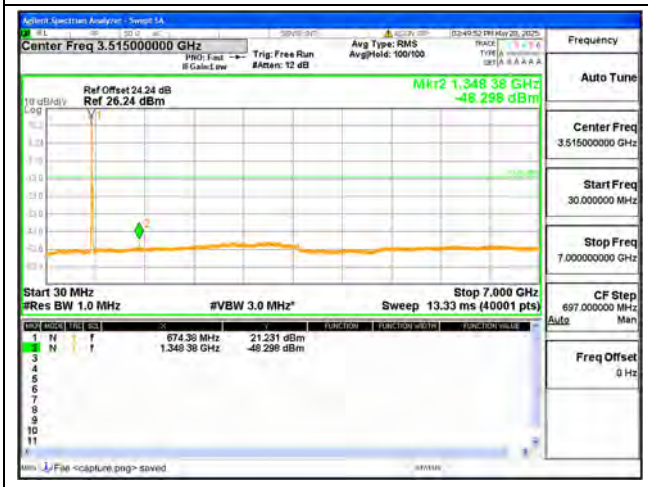
B71 / 10MHz / High CH / QPSK

B71 / 15MHz / Low CH / QPSK

B71 / 15MHz / Mid CH / QPSK

B71 / 15MHz / High CH / QPSK

B71 / 20MHz / Low CH / QPSK



B71 / 20MHz / Mid CH / QPSK

B71 / 20MHz / High CH / QPSK

2.6. Band Edge

2.6.1. Requirement

Band 2, 25

According to FCC section 24.238(a), for operations in the 1850–1910MHz bands, the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB in a 1MHz bandwidth. However, in the 1 MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

Band 4, 66

According to FCC section 27.53(h), for operations in the 1710–1755MHz bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least 43 + 10 log10(P) dB a 1MHz bandwidth. However, in the 1 MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

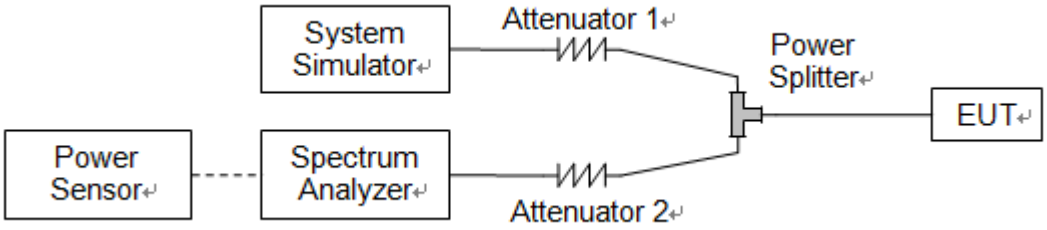
Band 5, 26

According to FCC section 22.917(a), for operations in the 824–849MHz bands, the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB in a 100kHz bandwidth. However, in the 1 MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

Band 12, 17, 71

According to FCC section 27.53(g), for operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least 43 + 10 log (P) dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

2.6.2. Test Description

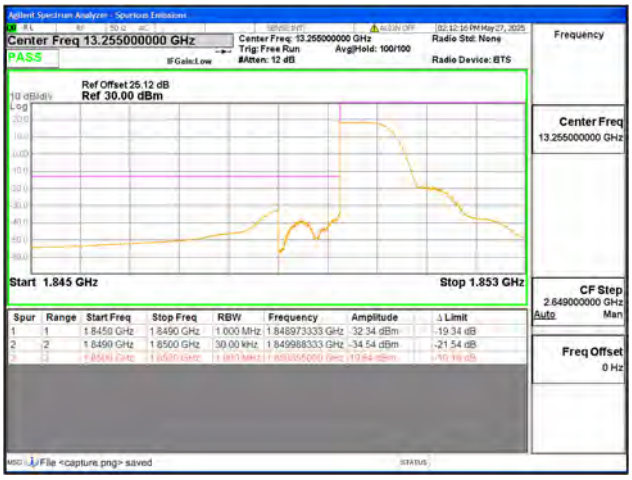


The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power. A call is established between the EUT and the SS.

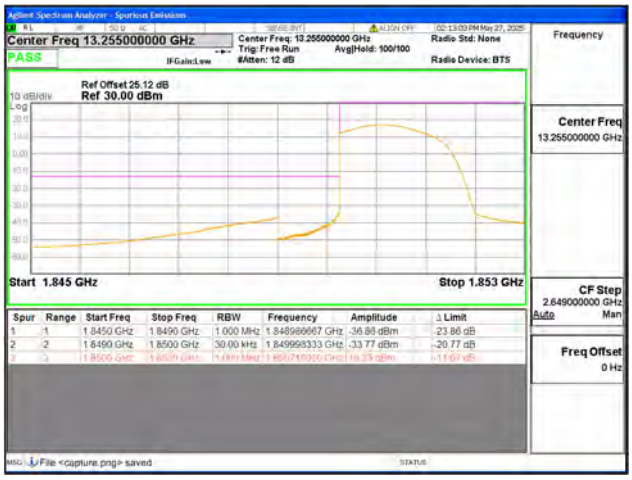
2.6.3. Test Procedure

KDB 971168 D01v03 Section 6.0 and ANSI/TIA-603-E-2016.

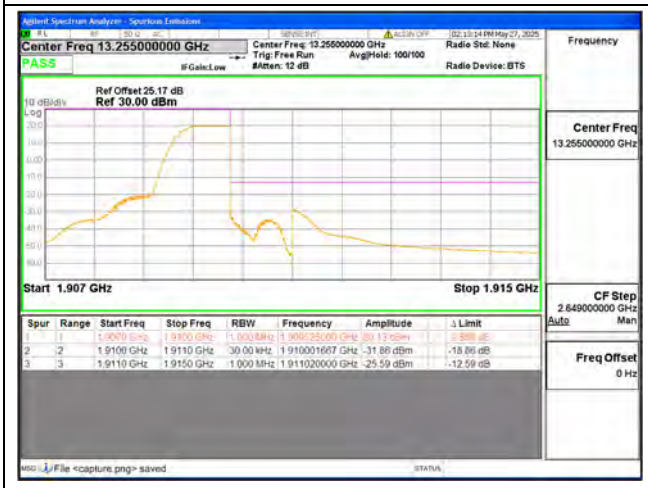
2.6.4. Test Result



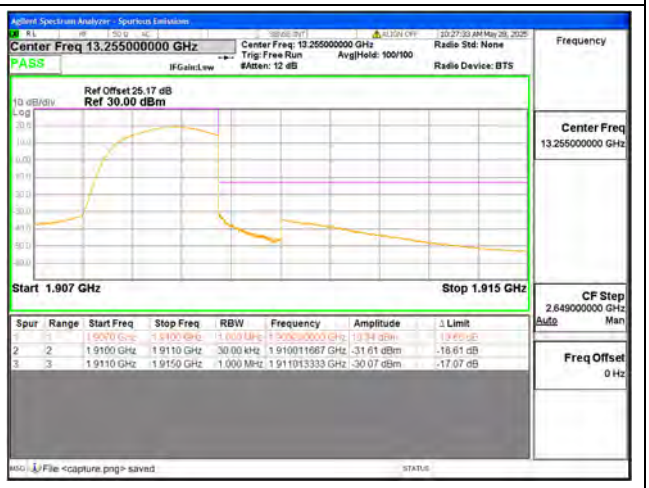
B2 / 1.4MHz / Low CH / QPSK / 1 RB



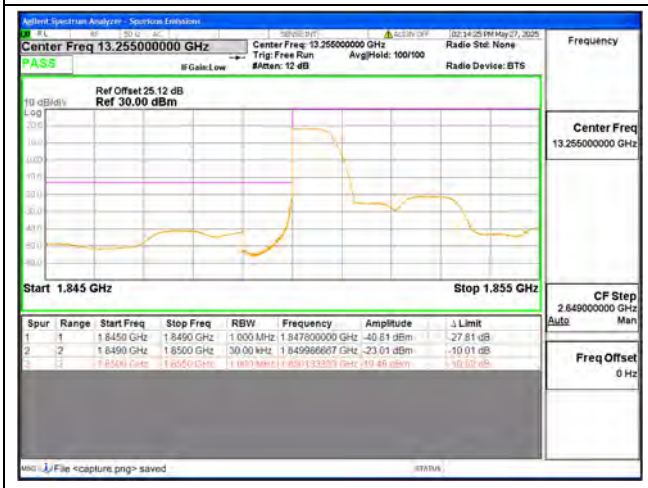
B2 / 1.4MHz / Low CH / QPSK / FULL RB



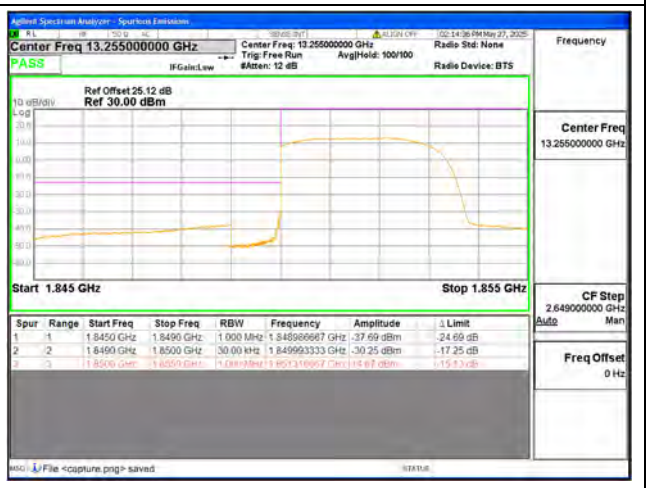
B2 / 1.4MHz / High CH / QPSK / 1 RB



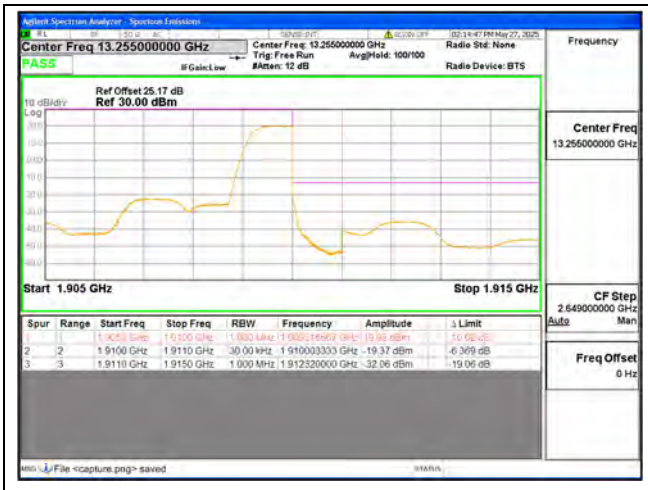
B2 / 1.4MHz / High CH / QPSK / FULL RB



B2 / 3MHz / Low CH / QPSK / 1 RB

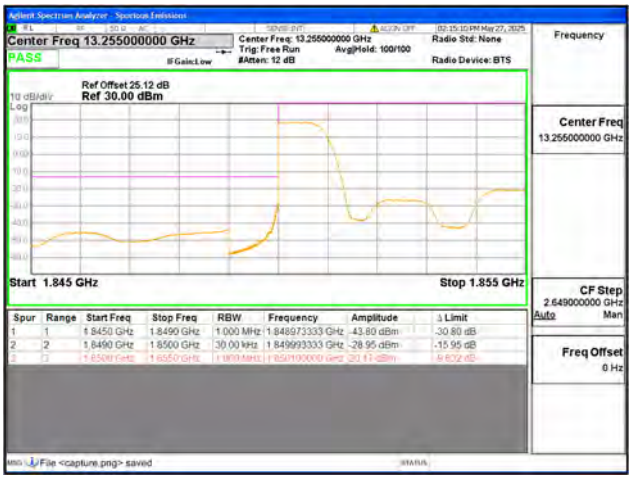


B2 / 3MHz / Low CH / QPSK / FULL RB

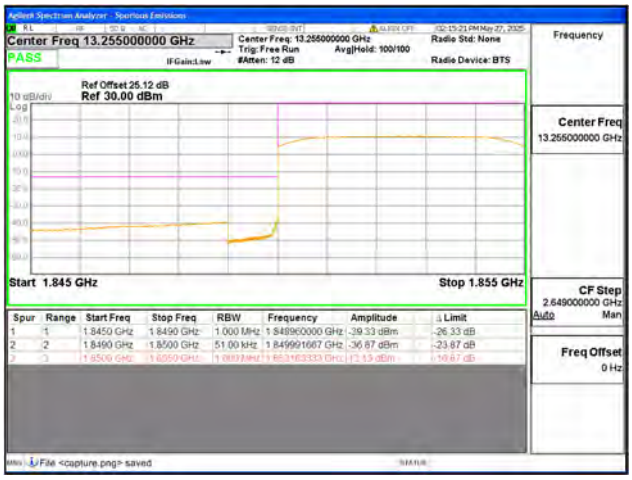


B2 / 3MHz / High CH / QPSK / 1 RB

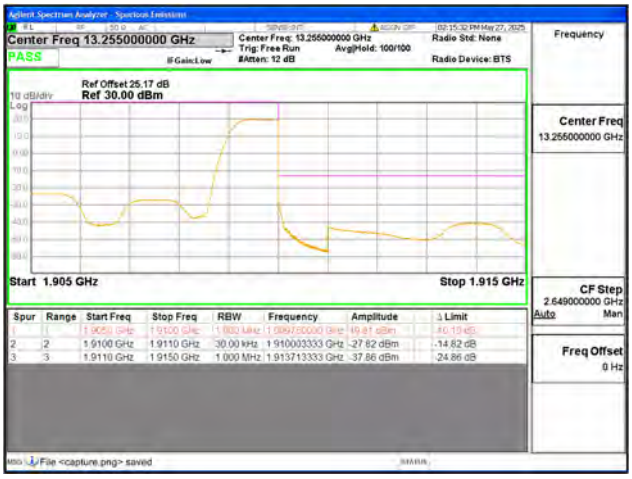
B2 / 3MHz / High CH / QPSK / FULL RB



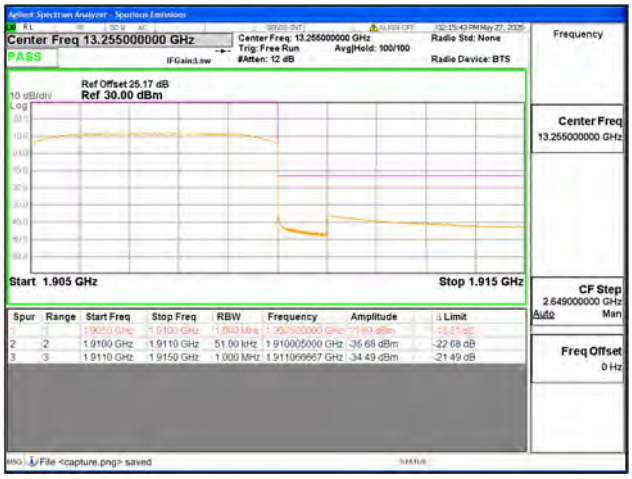
B2 / 5MHz / Low CH / QPSK / 1 RB



B2 / 5MHz / Low CH / QPSK / FULL RB



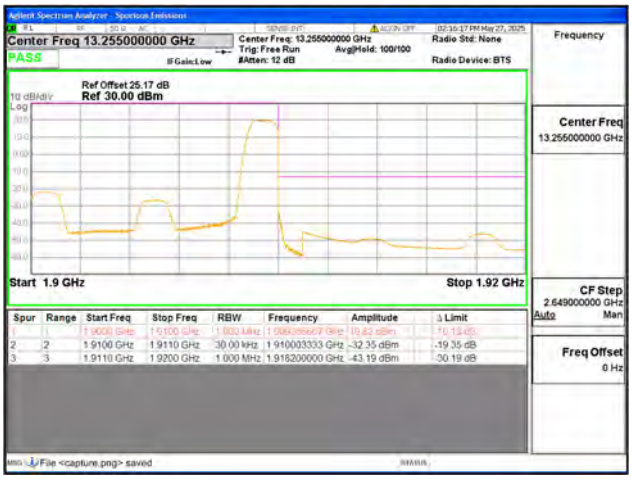
B2 / 5MHz / High CH / QPSK / 1 RB



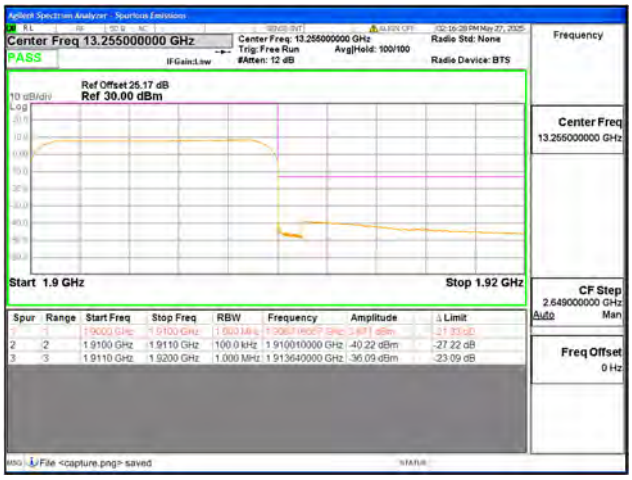
B2 / 5MHz / High CH / QPSK / FULL RB

B2 / 10MHz / Low CH / QPSK / 1 RB

B2 / 10MHz / Low CH / QPSK / FULL RB

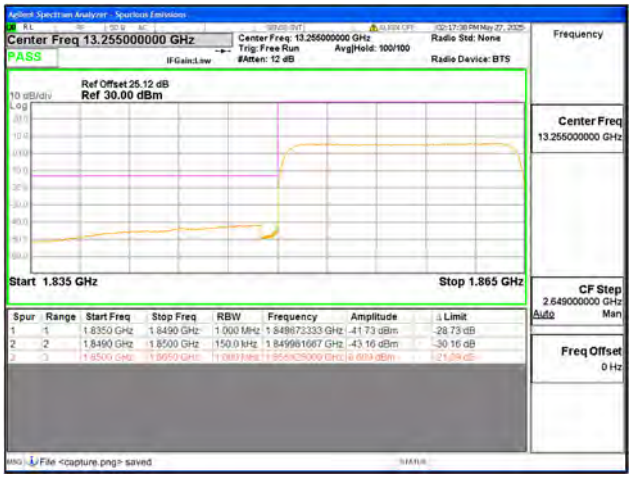


B2 / 10MHz / High CH / QPSK / 1 RB

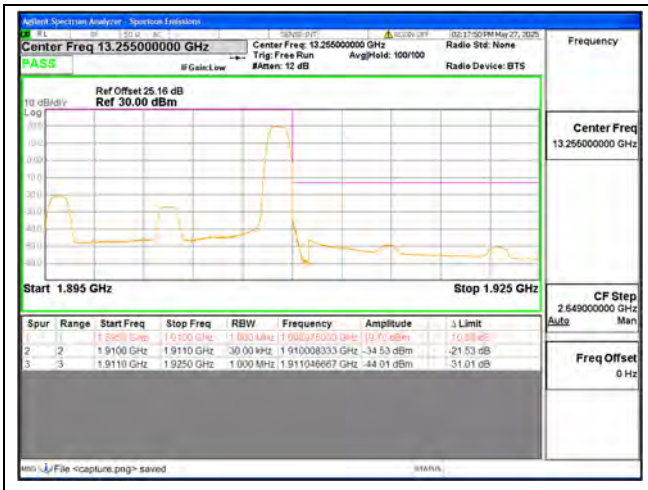


B2 / 10MHz / High CH / QPSK / FULL RB

B2 / 15MHz / Low CH / QPSK / 1 RB

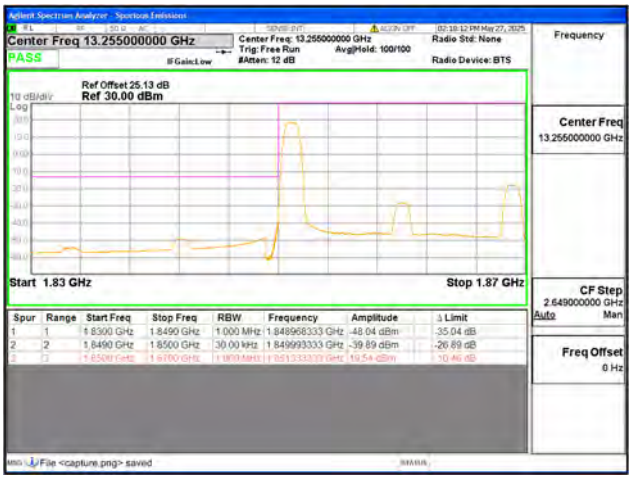


B2 / 15MHz / Low CH / QPSK / FULL RB



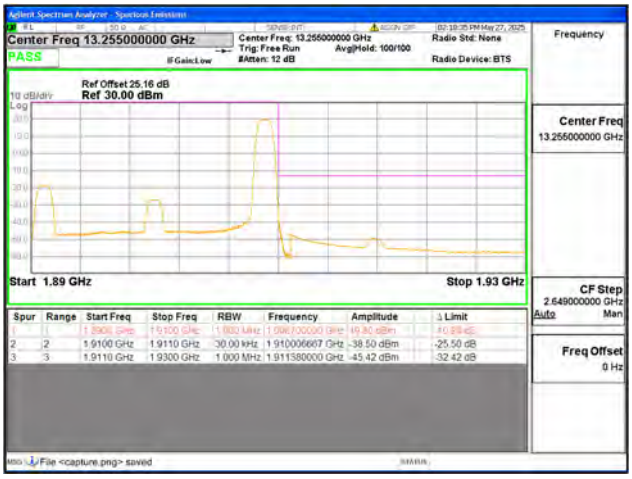
B2 / 15MHz / High CH / QPSK / 1 RB

B2 / 15MHz / High CH / QPSK / FULL RB

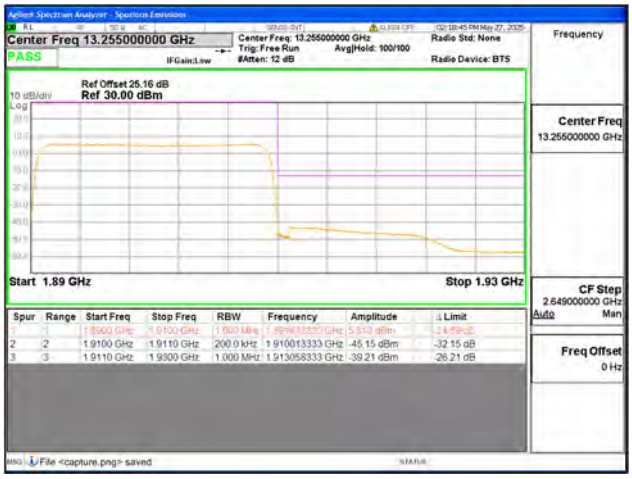


B2 / 20MHz / Low CH / QPSK / 1 RB

B2 / 20MHz / Low CH / QPSK / FULL RB



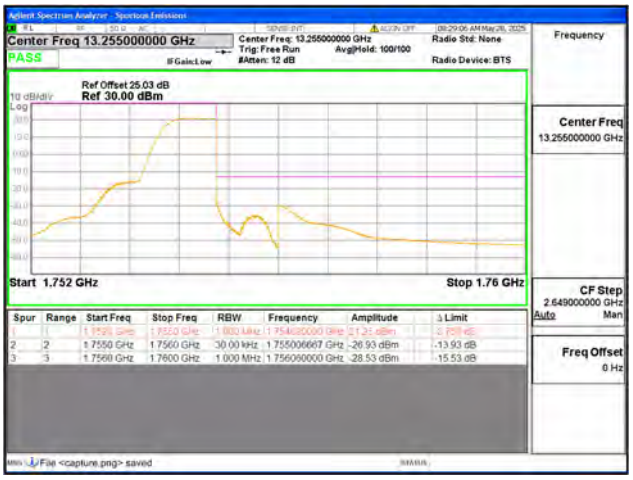
B2 / 20MHz / High CH / QPSK / 1 RB



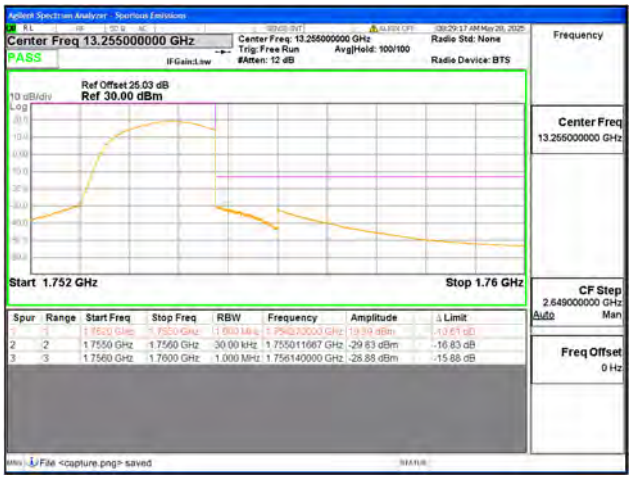
B2 / 20MHz / High CH / QPSK / FULL RB

B4 / 1.4MHz / Low CH / QPSK / 1 RB

B4 / 1.4MHz / Low CH / QPSK / FULL RB

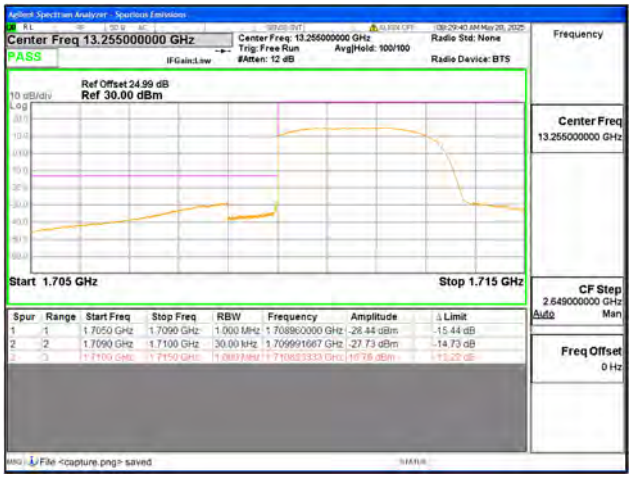


B4 / 1.4MHz / High CH / QPSK / 1 RB

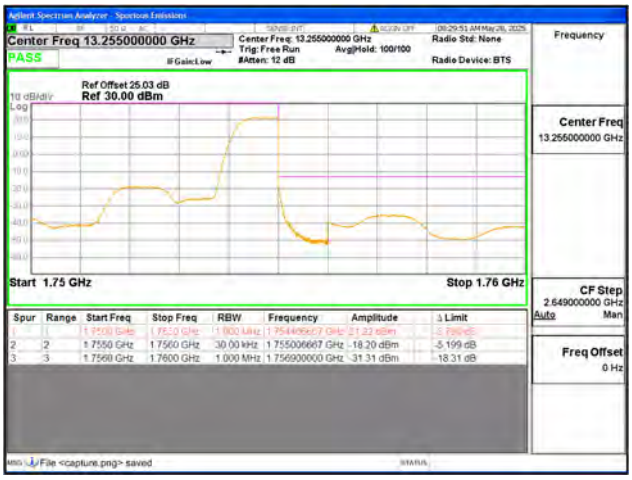


B4 / 1.4MHz / High CH / QPSK / FULL RB

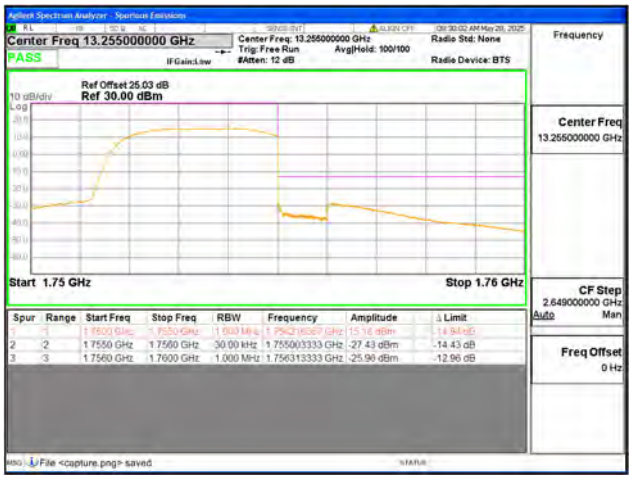
B4 / 3MHz / Low CH / QPSK / 1 RB



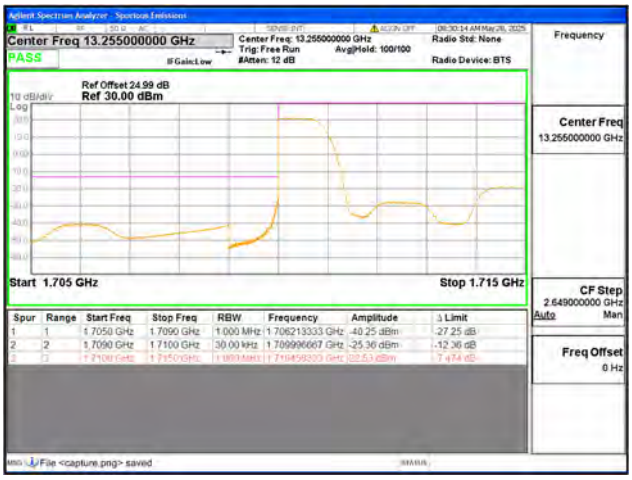
B4 / 3MHz / Low CH / QPSK / FULL RB



B4 / 3MHz / High CH / QPSK / 1 RB

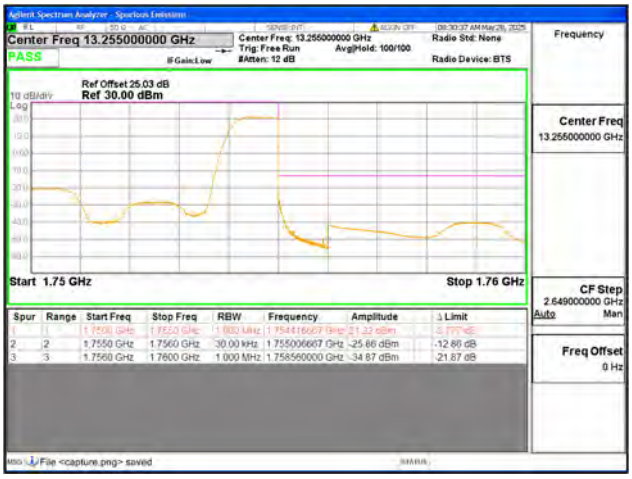


B4 / 3MHz / High CH / QPSK / FULL RB

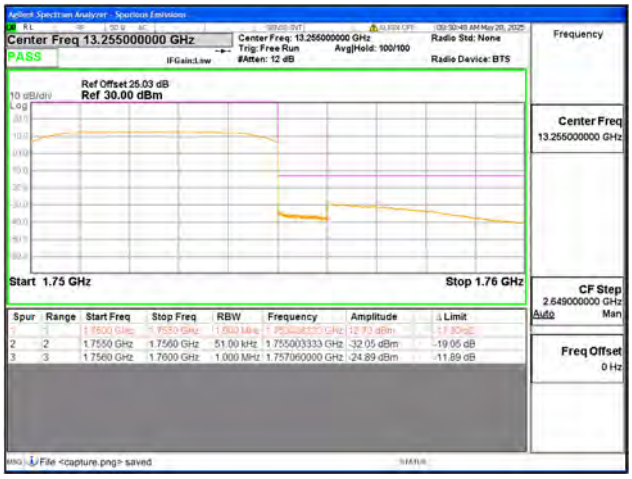


B4 / 5MHz / Low CH / QPSK / 1 RB

B4 / 5MHz / Low CH / QPSK / FULL RB



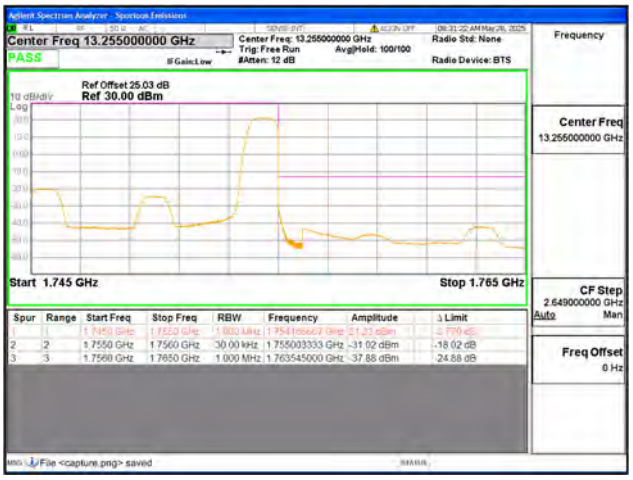
B4 / 5MHz / High CH / QPSK / 1 RB



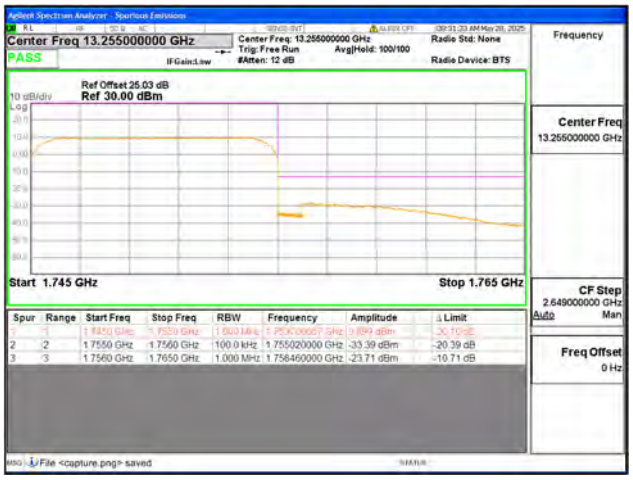
B4 / 5MHz / High CH / QPSK / FULL RB

B4 / 10MHz / Low CH / QPSK / 1 RB

B4 / 10MHz / Low CH / QPSK / FULL RB

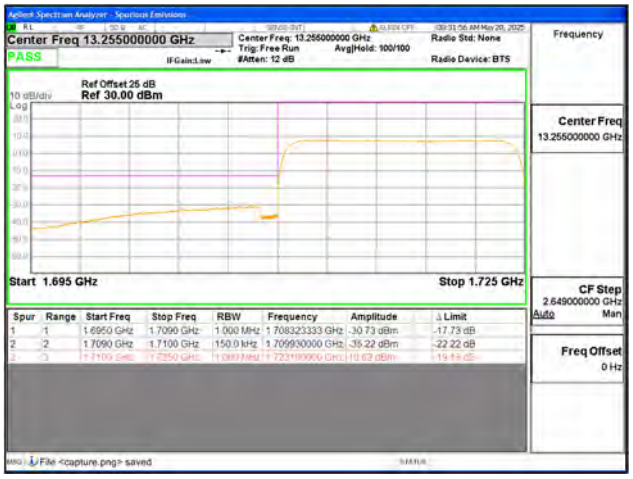


B4 / 10MHz / High CH / QPSK / 1 RB

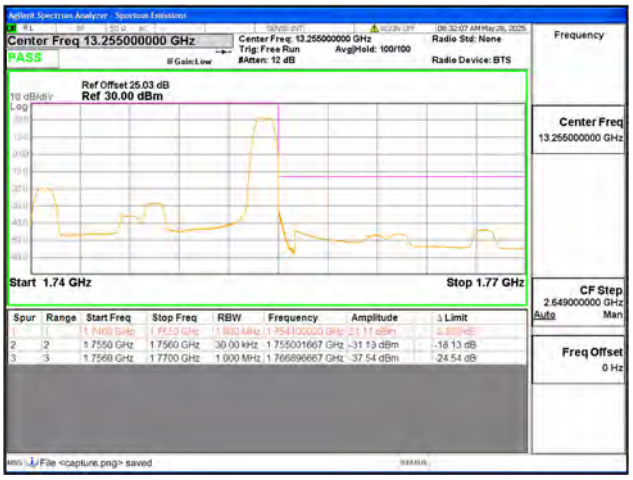


B4 / 10MHz / High CH / QPSK / FULL RB

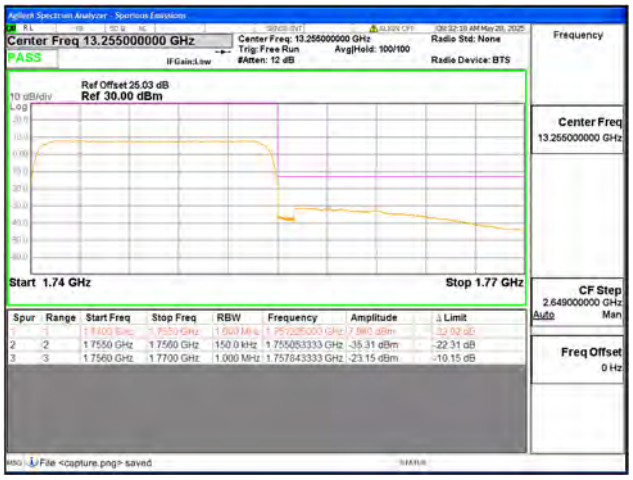
B4 / 15MHz / Low CH / QPSK / 1 RB



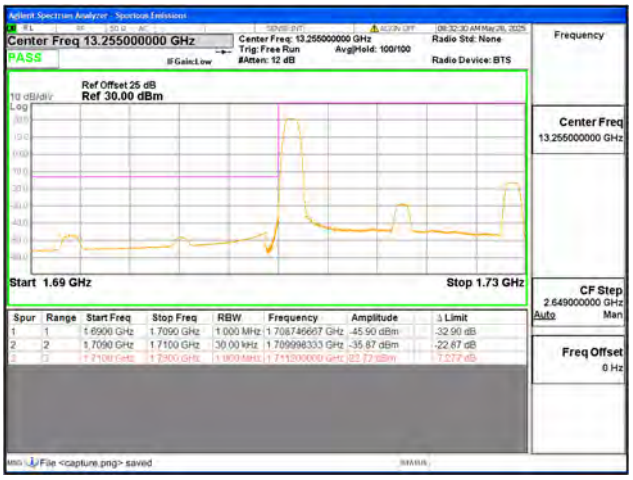
B4 / 15MHz / Low CH / QPSK / FULL RB



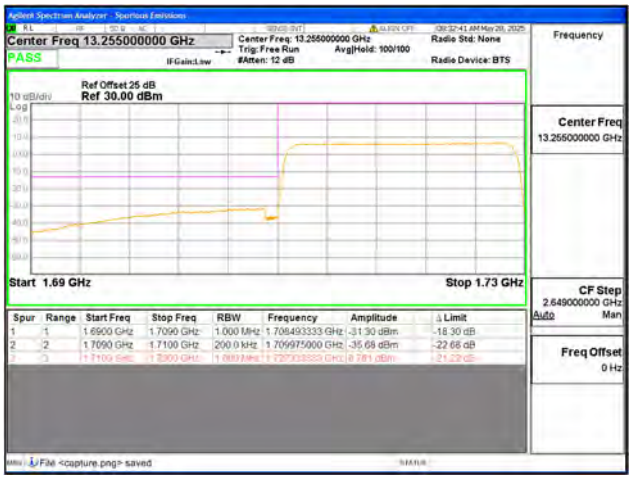
B4 / 15MHz / High CH / QPSK / 1 RB



B4 / 15MHz / High CH / QPSK / FULL RB

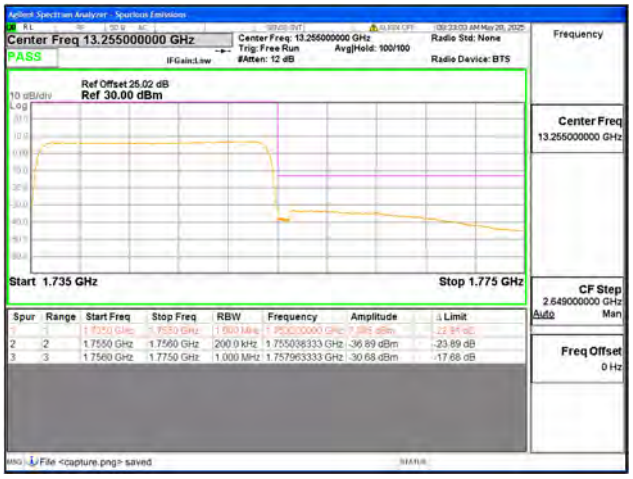


B4 / 20MHz / Low CH / QPSK / 1 RB



B4 / 20MHz / Low CH / QPSK / FULL RB

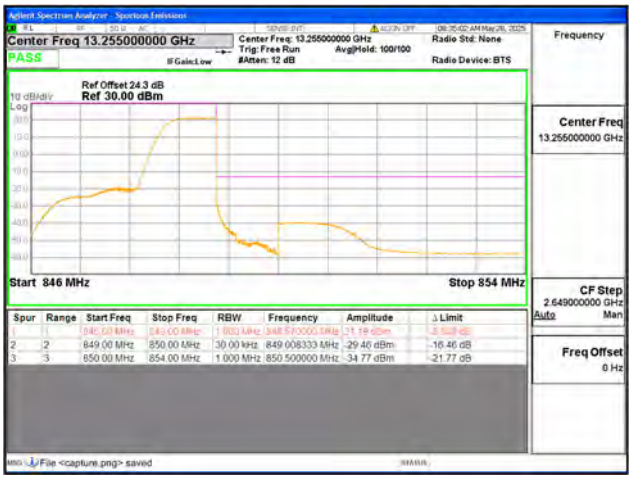
B4 / 20MHz / High CH / QPSK / 1 RB



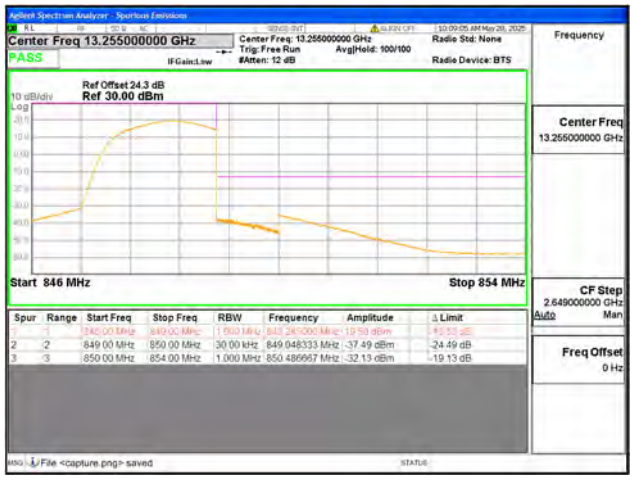
B4 / 20MHz / High CH / QPSK / FULL RB

B5 / 1.4MHz / Low CH / QPSK / 1 RB

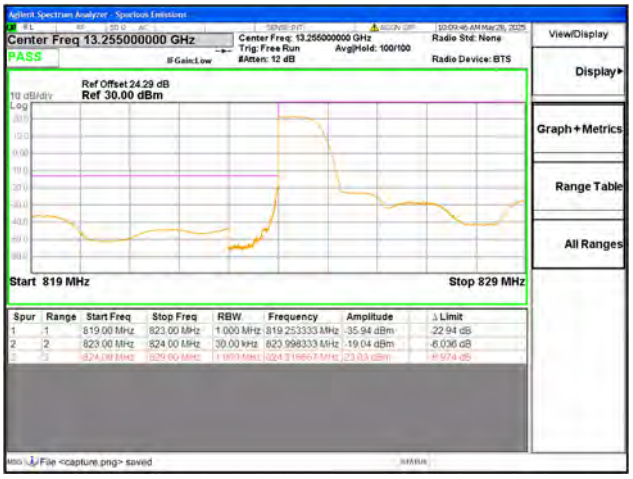
B5 / 1.4MHz / Low CH / QPSK / FULL RB



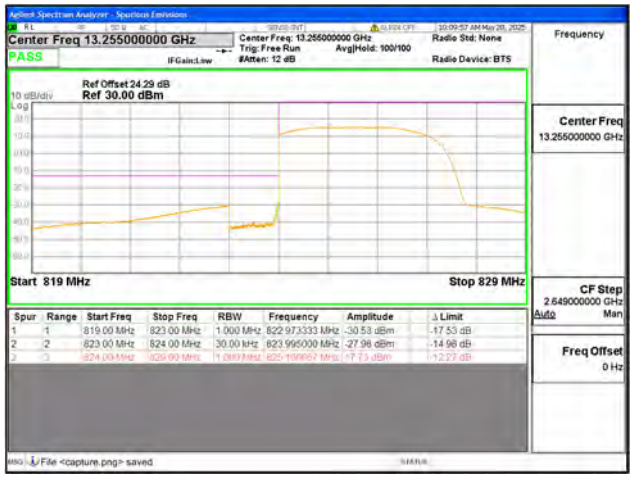
B5 / 1.4MHz / High CH / QPSK / 1 RB



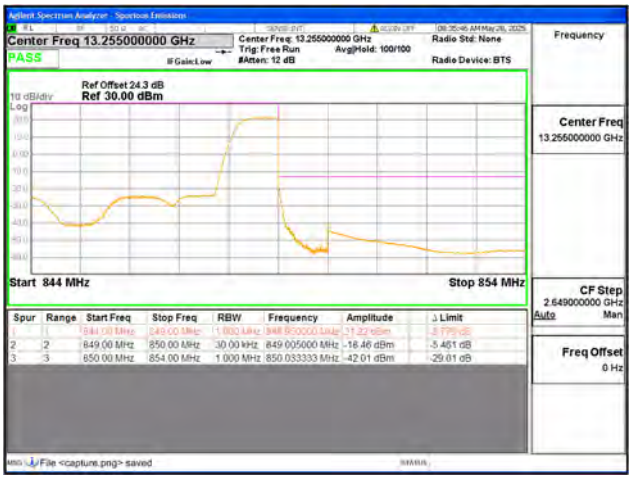
B5 / 1.4MHz / High CH / QPSK / FULL RB



B5 / 3MHz / Low CH / QPSK / 1 RB

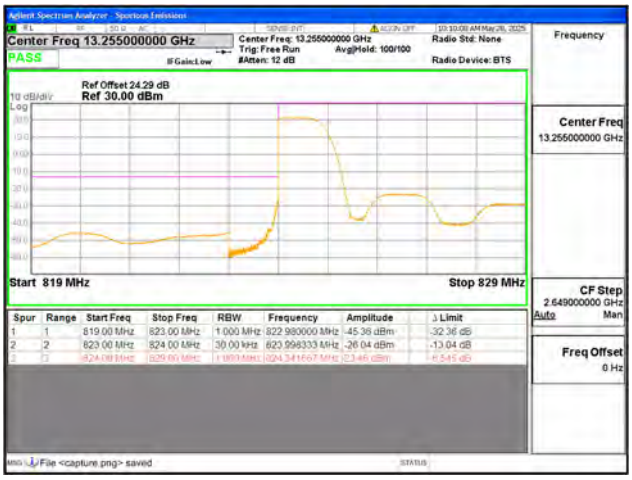


B5 / 3MHz / Low CH / QPSK / FULL RB

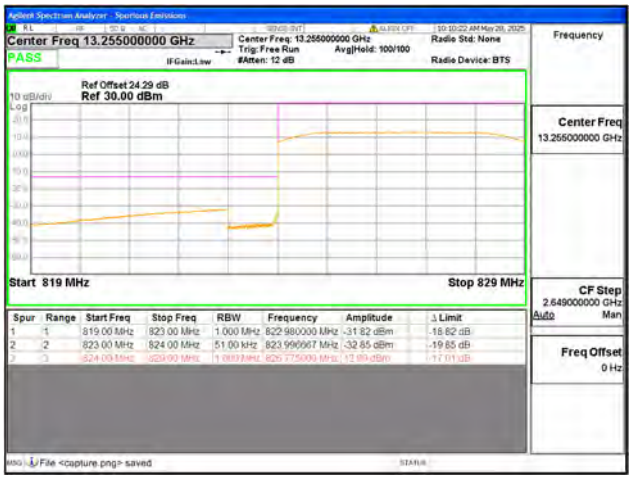


B5 / 3MHz / High CH / QPSK / 1 RB

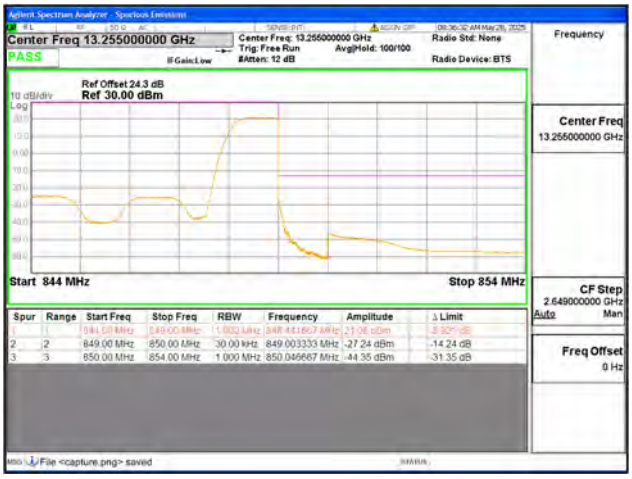
B5 / 3MHz / High CH / QPSK / FULL RB



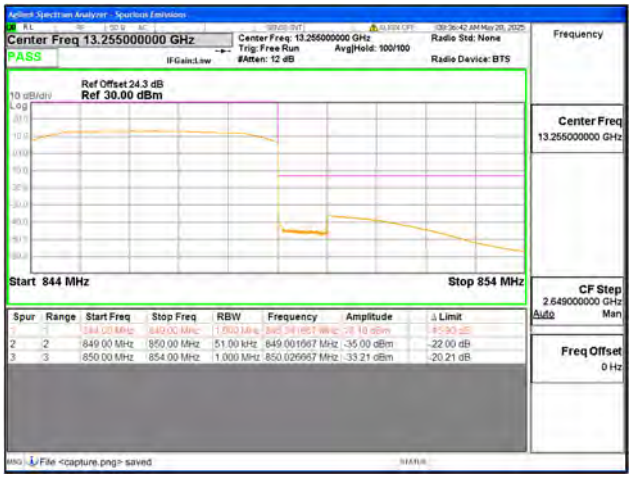
B5 / 5MHz / Low CH / QPSK / 1 RB



B5 / 5MHz / Low CH / QPSK / FULL RB



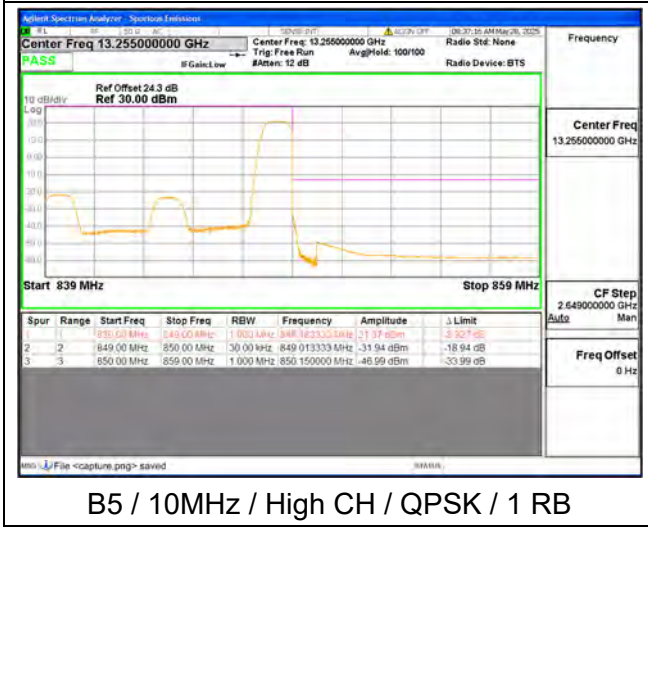
B5 / 5MHz / High CH / QPSK / 1 RB



B5 / 5MHz / High CH / QPSK / FULL RB

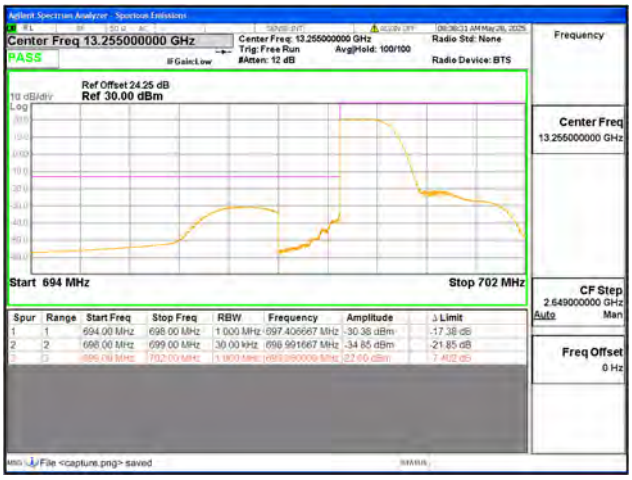
B5 / 10MHz / Low CH / QPSK / 1 RB

B5 / 10MHz / Low CH / QPSK / FULL RB

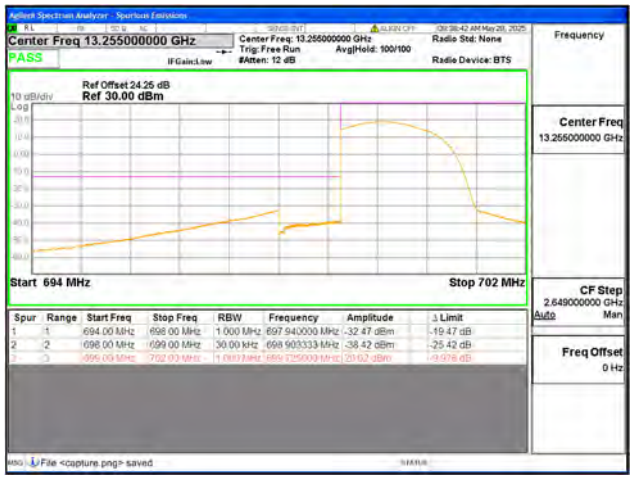


B5 / 10MHz / High CH / QPSK / 1 RB

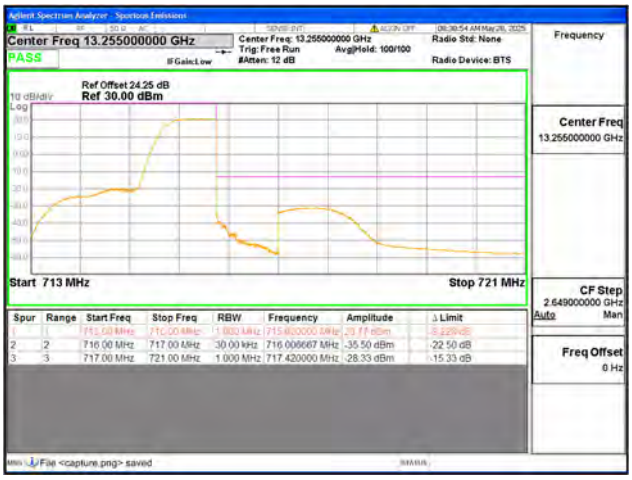
B5 / 10MHz / High CH / QPSK / FULL RB



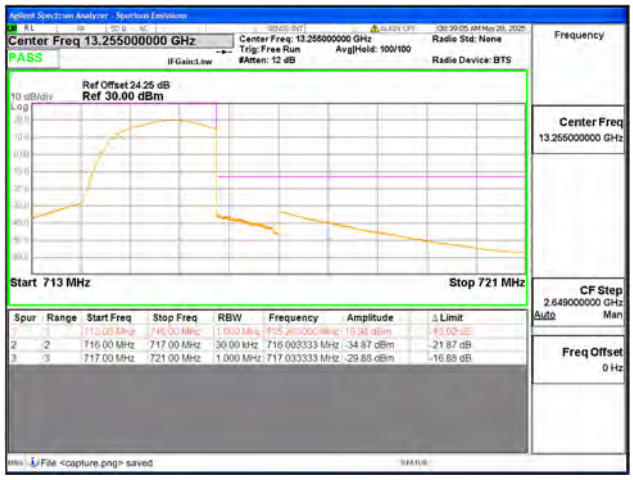
B12 / 1.4MHz / Low CH / QPSK / 1 RB



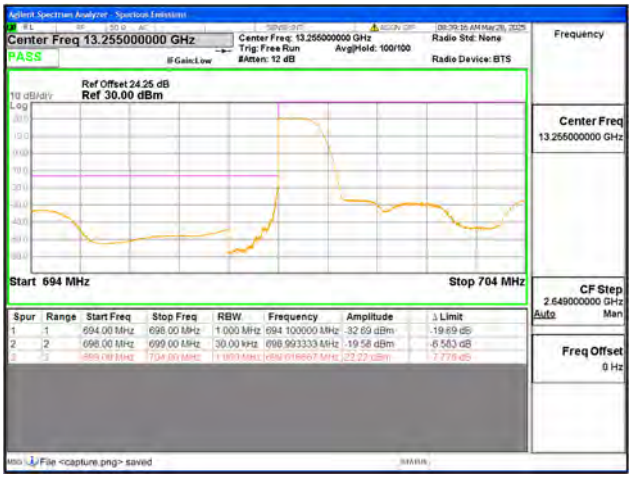
B12 / 1.4MHz / Low CH / QPSK / FULL RB



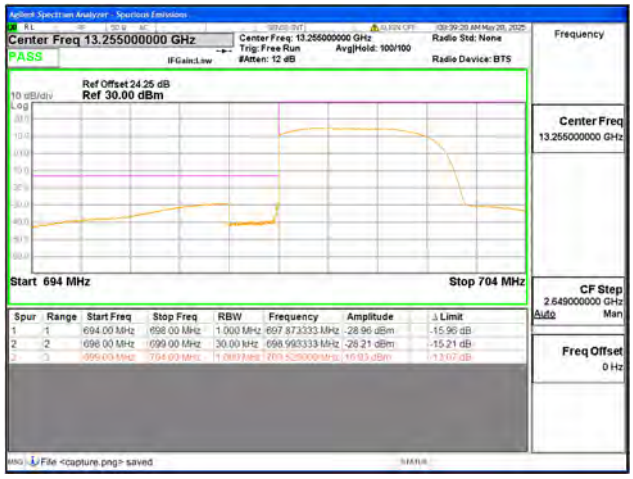
B12 / 1.4MHz / High CH / QPSK / 1 RB



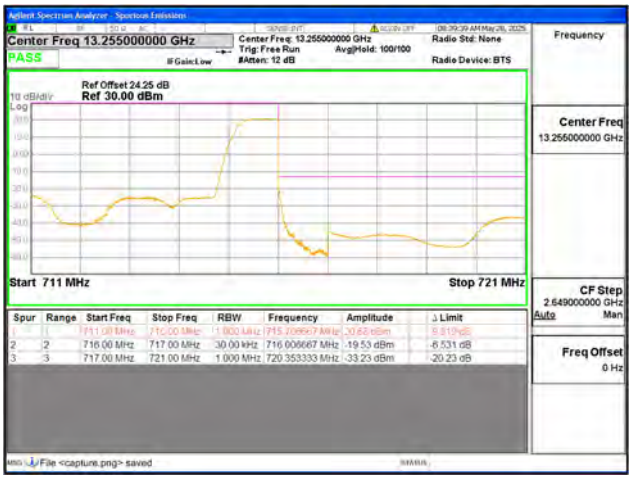
B12 / 1.4MHz / High CH / QPSK / FULL RB



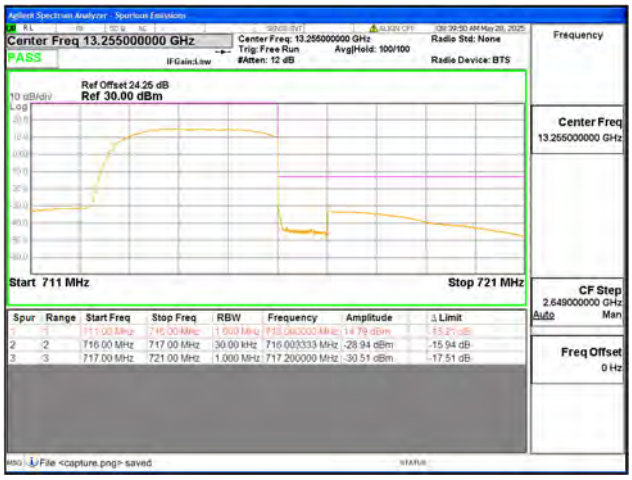
B12 / 3MHz / Low CH / QPSK / 1 RB



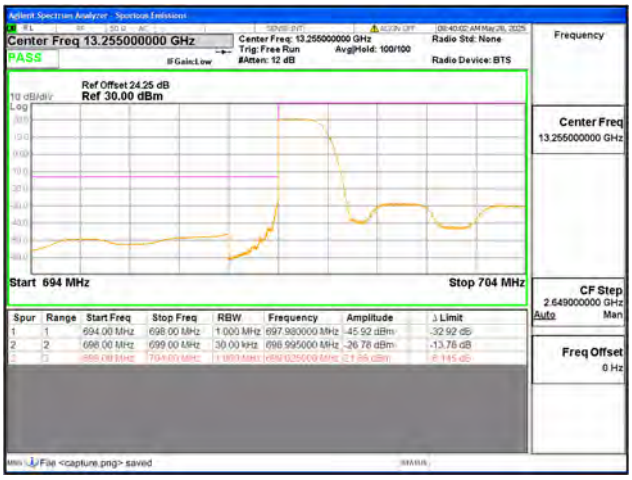
B12 / 3MHz / Low CH / QPSK / FULL RB



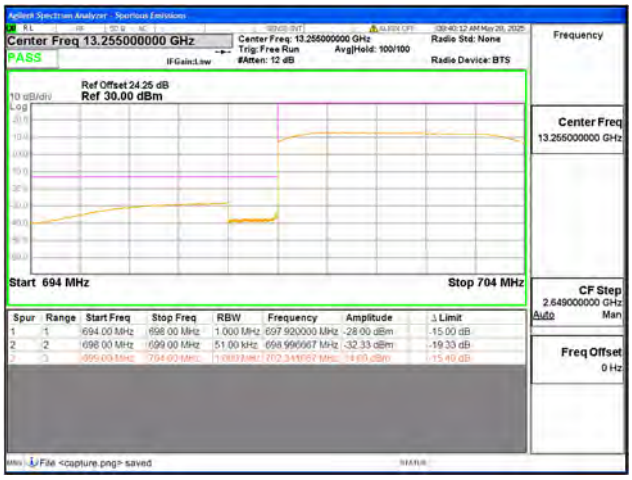
B12 / 3MHz / High CH / QPSK / 1 RB



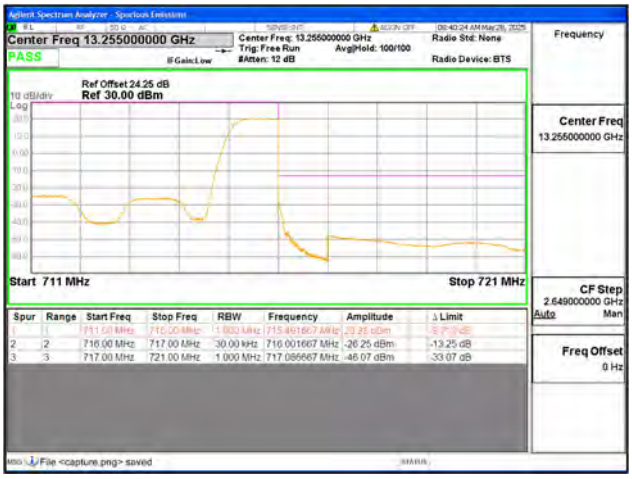
B12 / 3MHz / High CH / QPSK / FULL RB



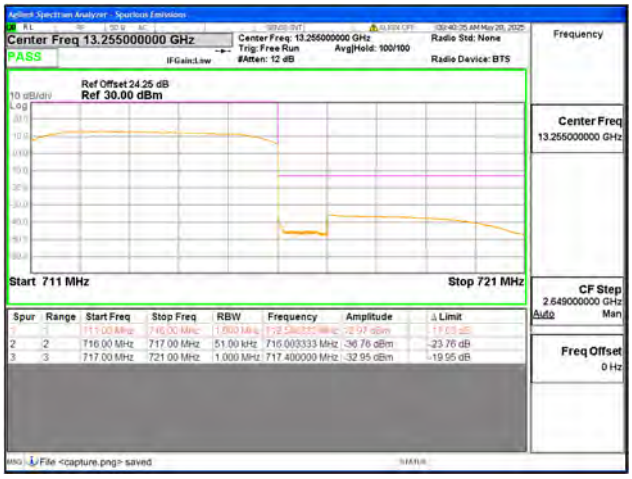
B12 / 5MHz / Low CH / QPSK / 1 RB



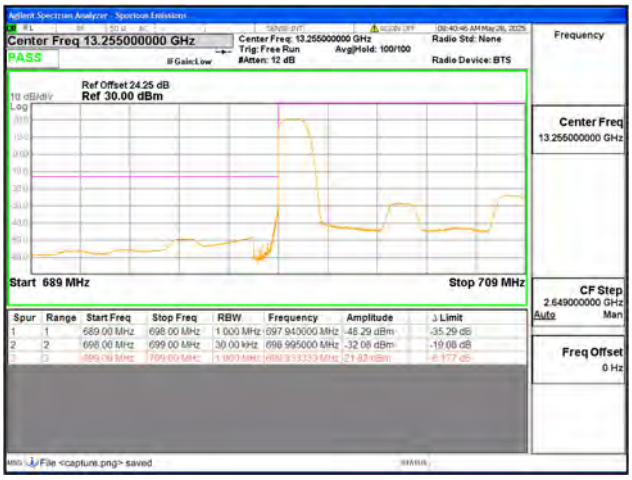
B12 / 5MHz / Low CH / QPSK / FULL RB



B12 / 5MHz / High CH / QPSK / 1 RB

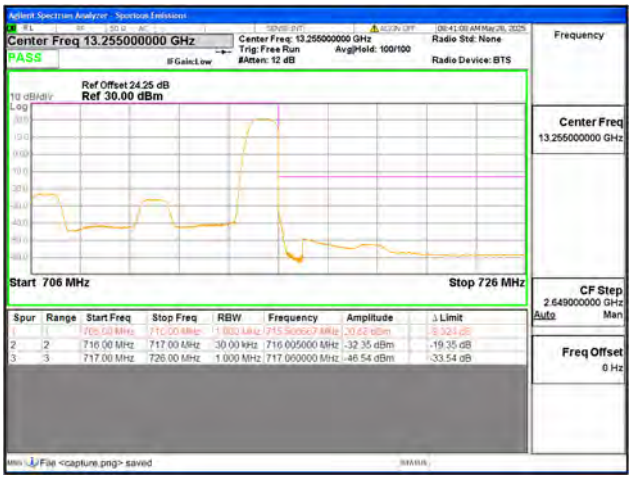


B12 / 5MHz / High CH / QPSK / FULL RB

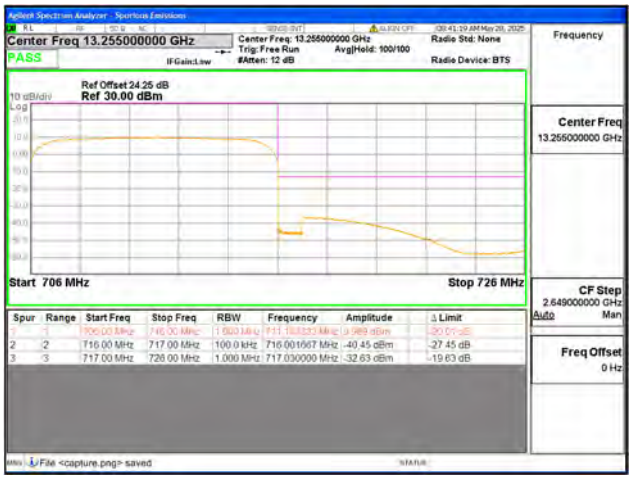


B12 / 10MHz / Low CH / QPSK / 1 RB

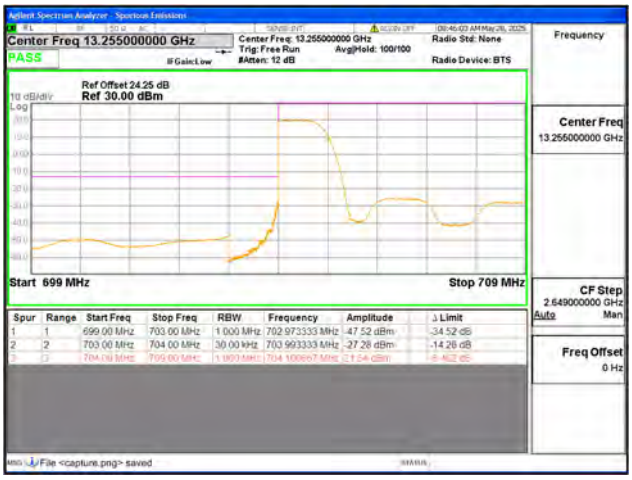
B12 / 10MHz / Low CH / QPSK / FULL RB



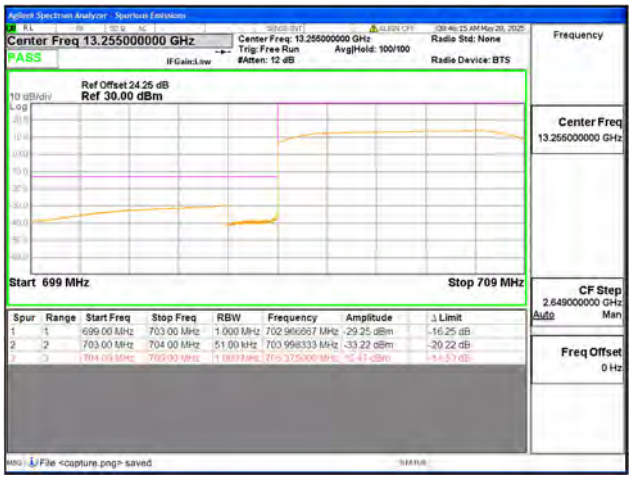
B12 / 10MHz / High CH / QPSK / 1 RB



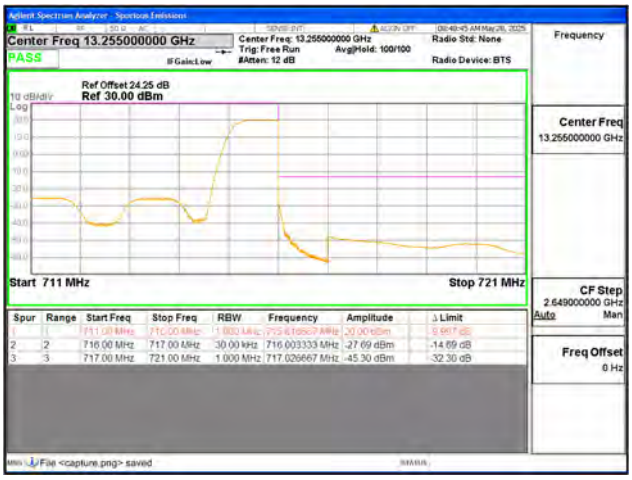
B12 / 10MHz / High CH / QPSK / FULL RB



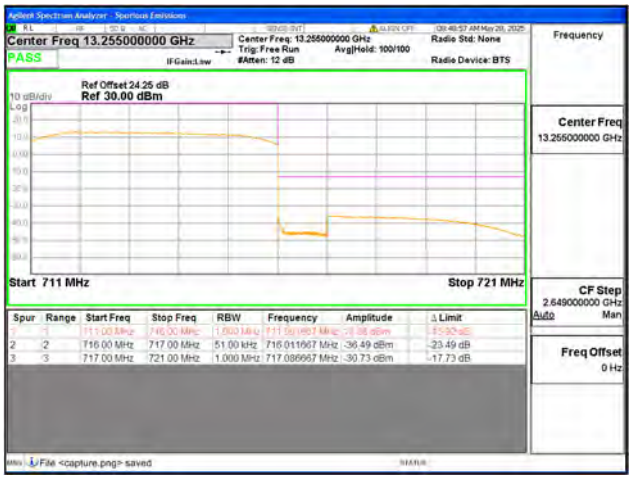
B17 / 5MHz / Low CH / QPSK / 1 RB



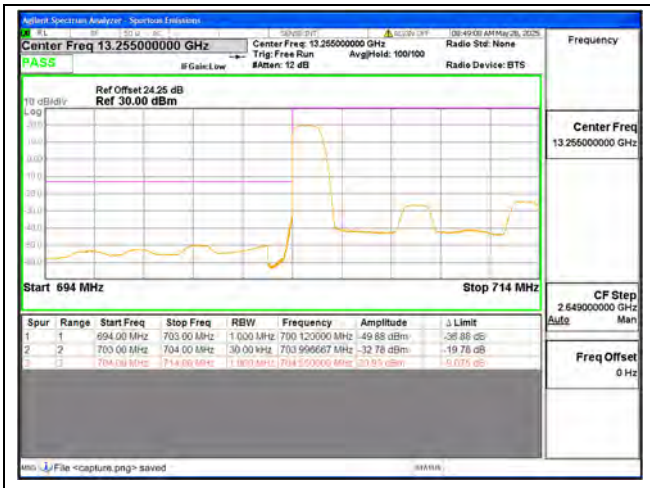
B17 / 5MHz / Low CH / QPSK / FULL RB



B17 / 5MHz / High CH / QPSK / 1 RB

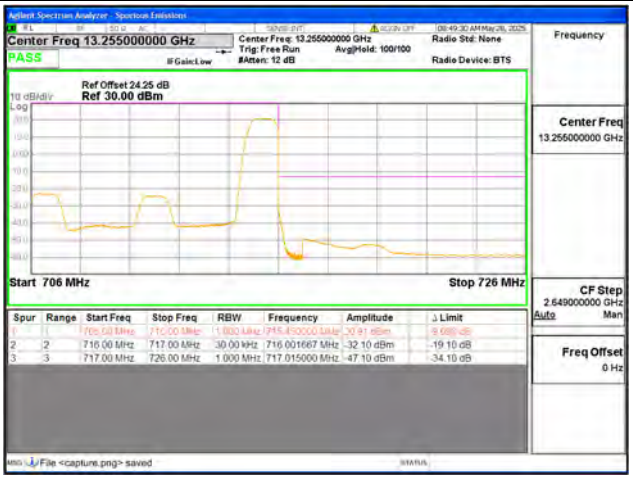


B17 / 5MHz / High CH / QPSK / FULL RB

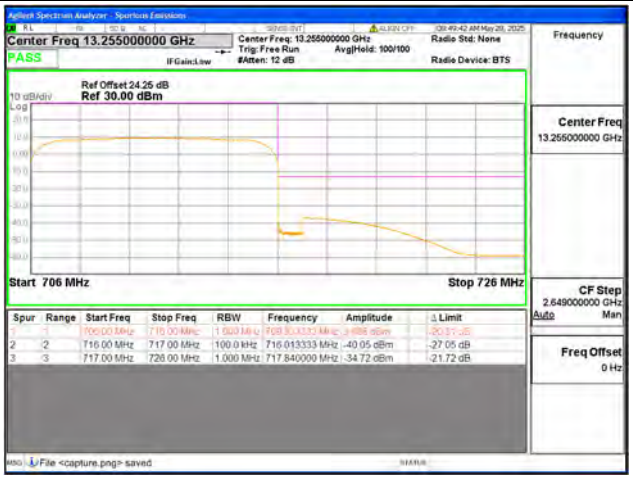


B17 / 10MHz / Low CH / QPSK / 1 RB

B17 / 10MHz / Low CH / QPSK / FULL RB



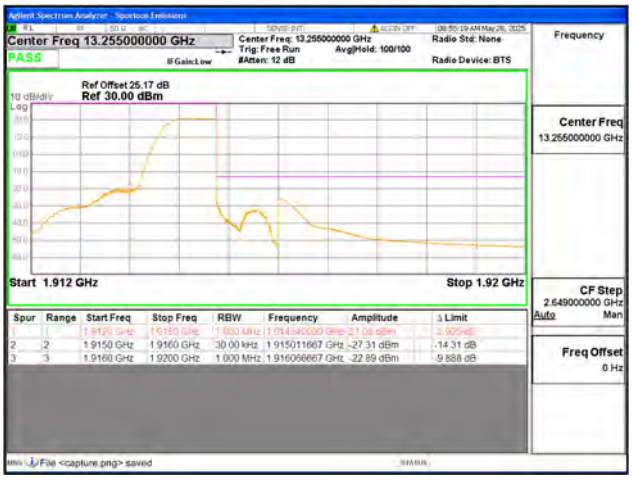
B17 / 10MHz / High CH / QPSK / 1 RB



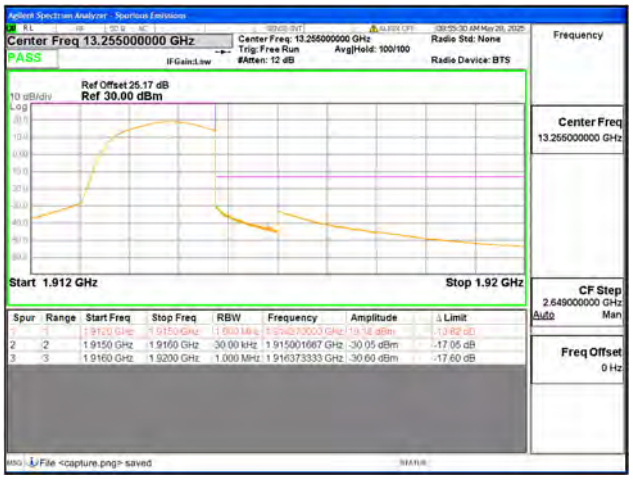
B17 / 10MHz / High CH / QPSK / FULL RB

B25 / 1.4MHz / Low CH / QPSK / 1 RB

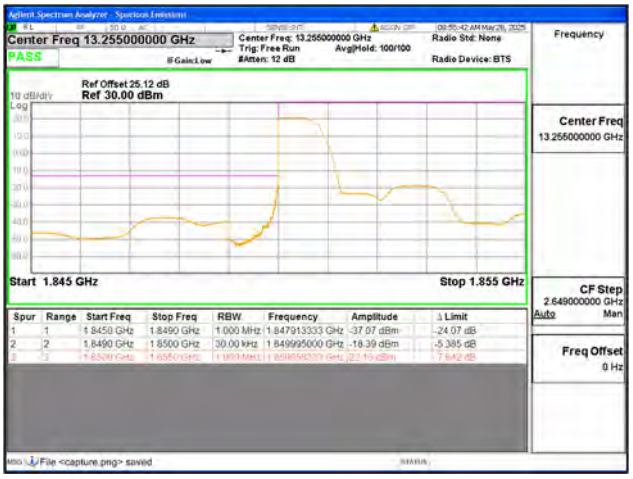
B25 / 1.4MHz / Low CH / QPSK / FULL RB



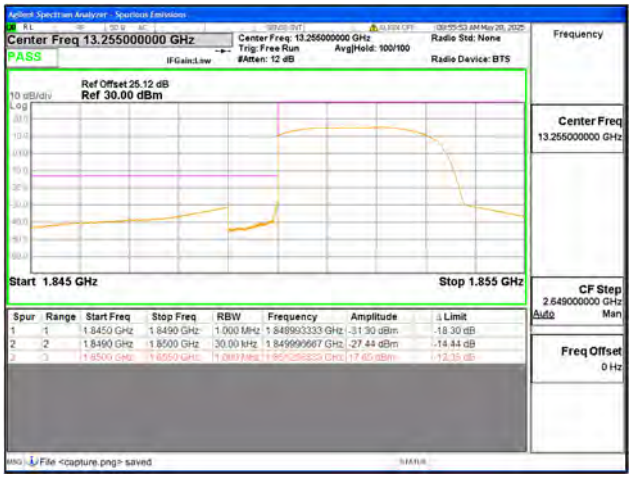
B25 / 1.4MHz / High CH / QPSK / 1 RB



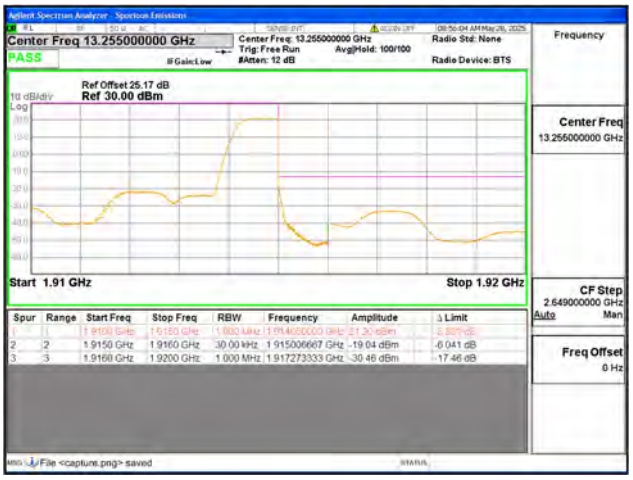
B25 / 1.4MHz / High CH / QPSK / FULL RB



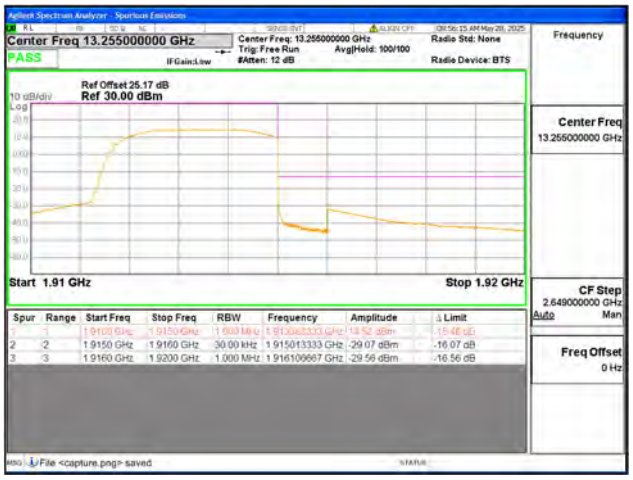
B25 / 3MHz / Low CH / QPSK / 1 RB



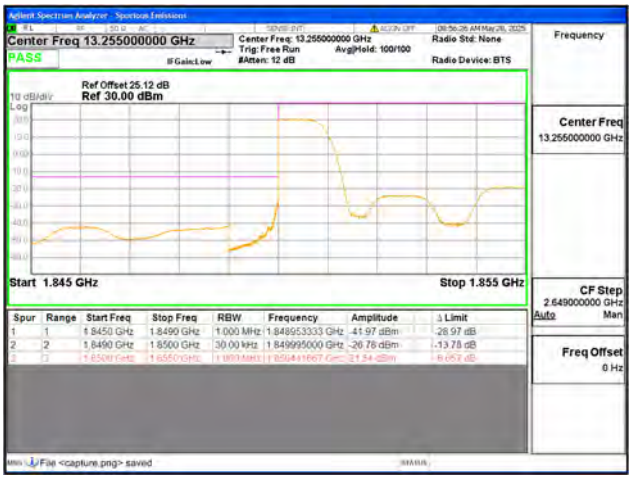
B25 / 3MHz / Low CH / QPSK / FULL RB



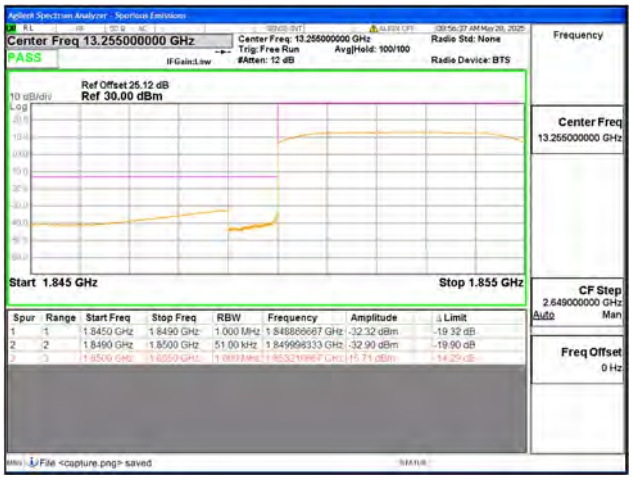
B25 / 3MHz / High CH / QPSK / 1 RB



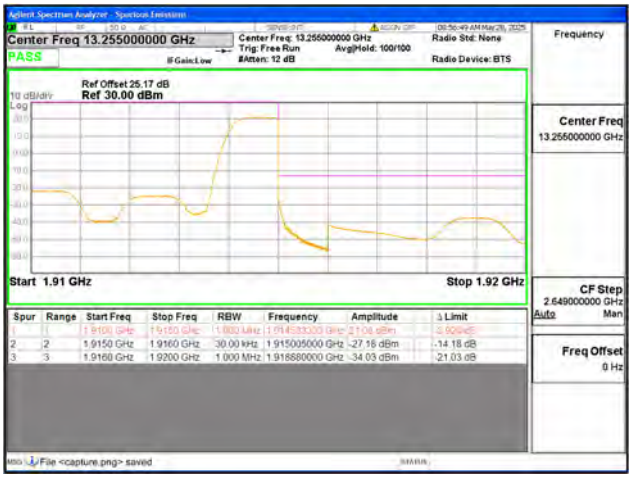
B25 / 3MHz / High CH / QPSK / FULL RB



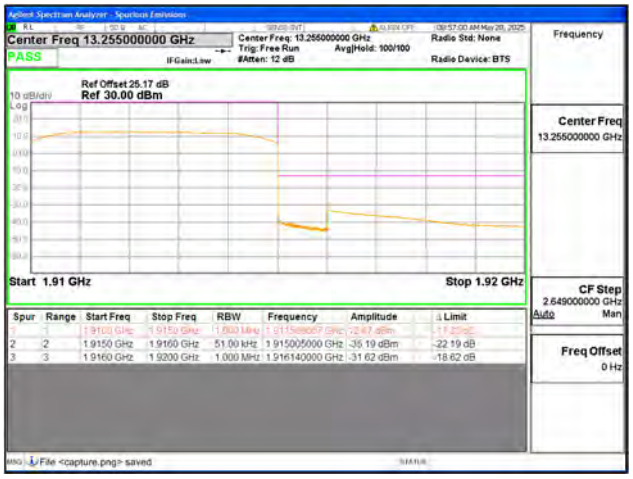
B25 / 5MHz / Low CH / QPSK / 1 RB



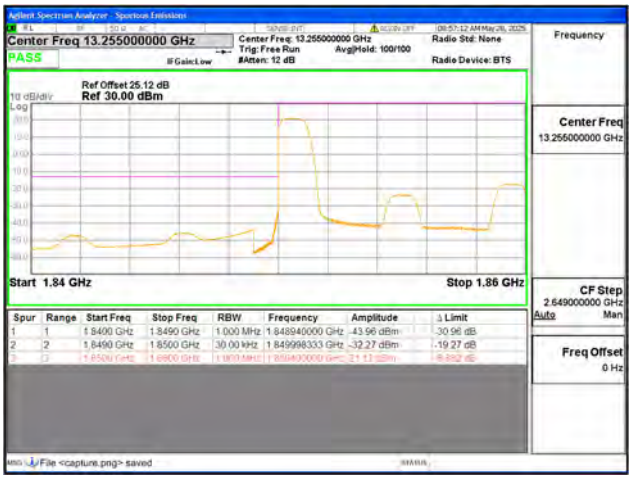
B25 / 5MHz / Low CH / QPSK / FULL RB



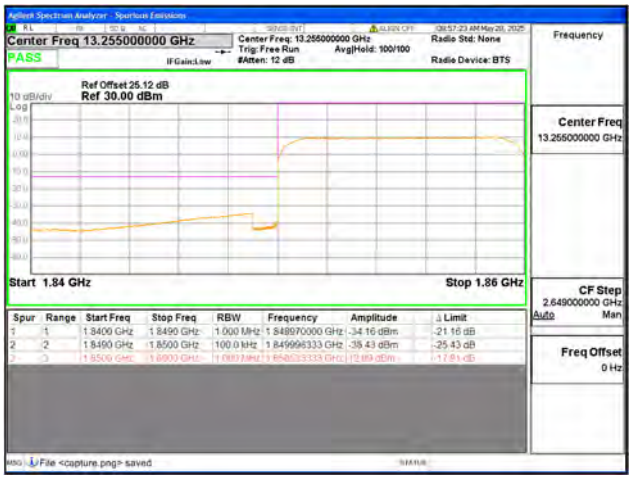
B25 / 5MHz / High CH / QPSK / 1 RB



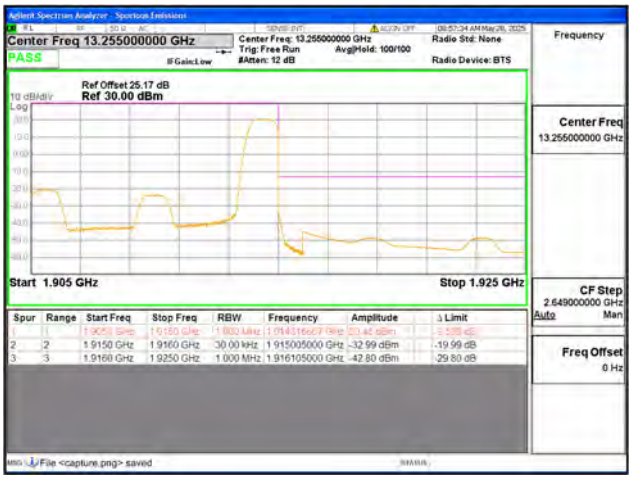
B25 / 5MHz / High CH / QPSK / FULL RB



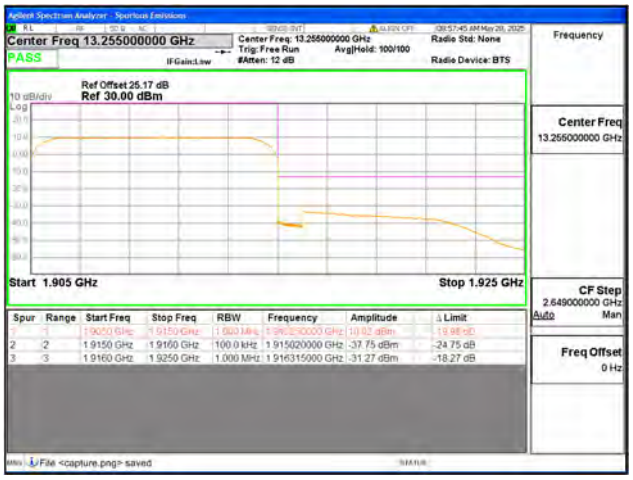
B25 / 10MHz / Low CH / QPSK / 1 RB



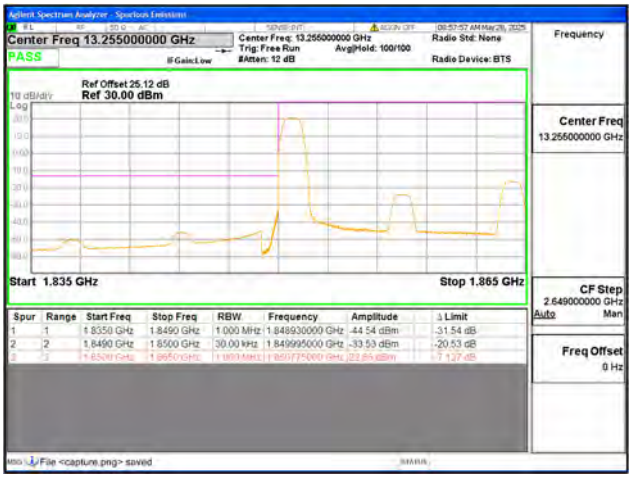
B25 / 10MHz / Low CH / QPSK / FULL RB



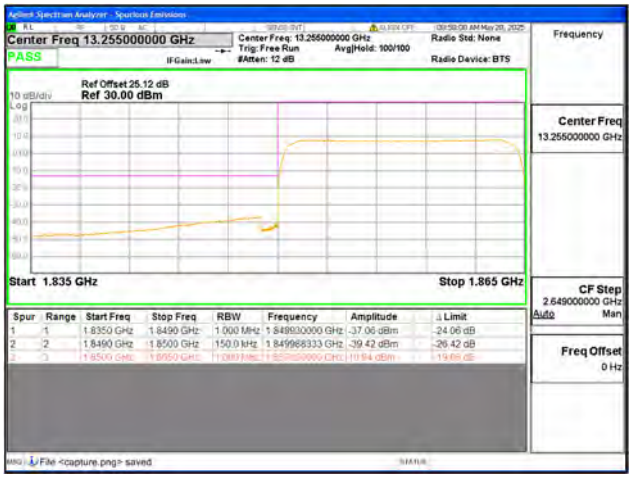
B25 / 10MHz / High CH / QPSK / 1 RB



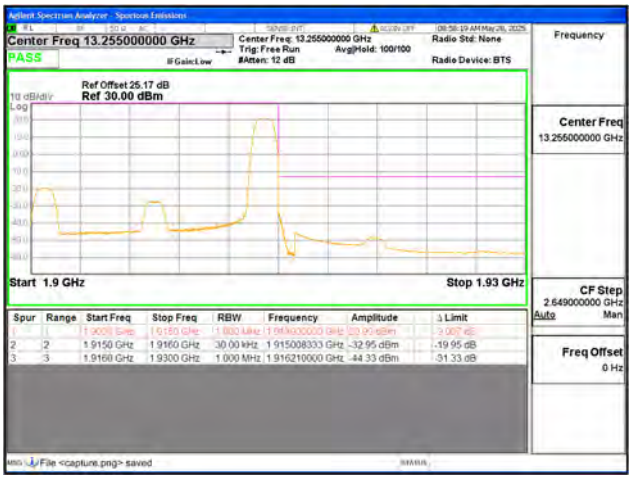
B25 / 10MHz / High CH / QPSK / FULL RB



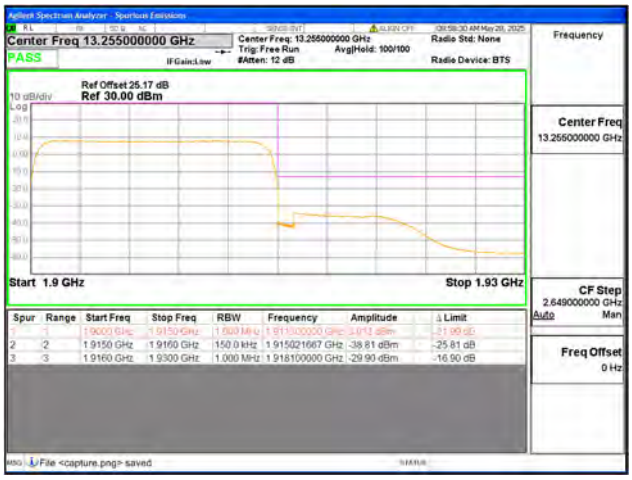
B25 / 15MHz / Low CH / QPSK / 1 RB



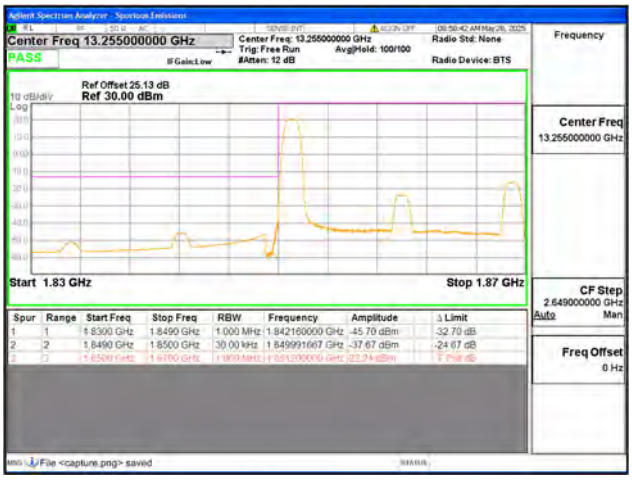
B25 / 15MHz / Low CH / QPSK / FULL RB



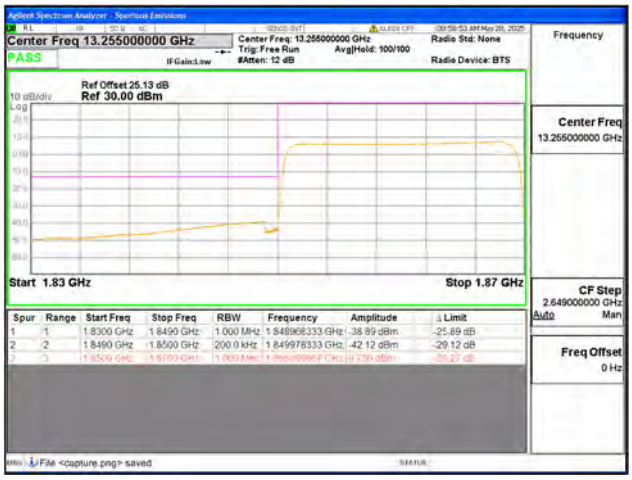
B25 / 15MHz / High CH / QPSK / 1 RB



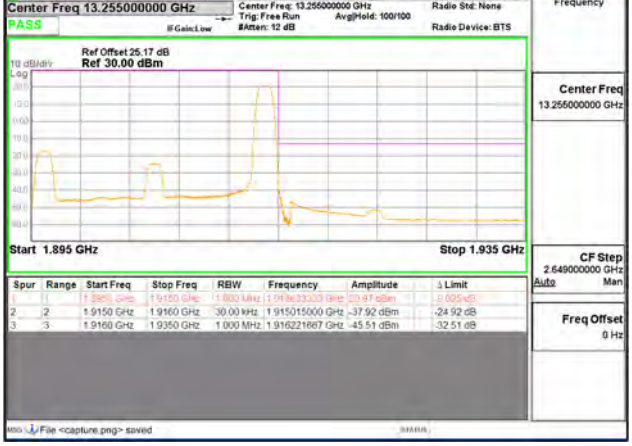
B25 / 15MHz / High CH / QPSK / FULL RB



B25 / 20MHz / Low CH / QPSK / 1 RB



B25 / 20MHz / Low CH / QPSK / FULL RB

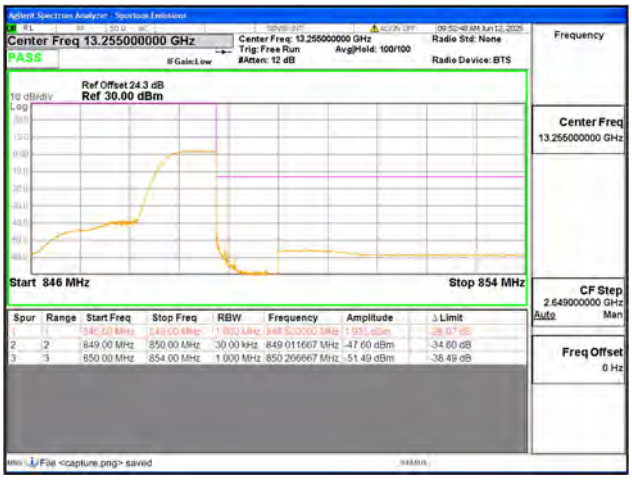


B25 / 20MHz / High CH / QPSK / 1 RB

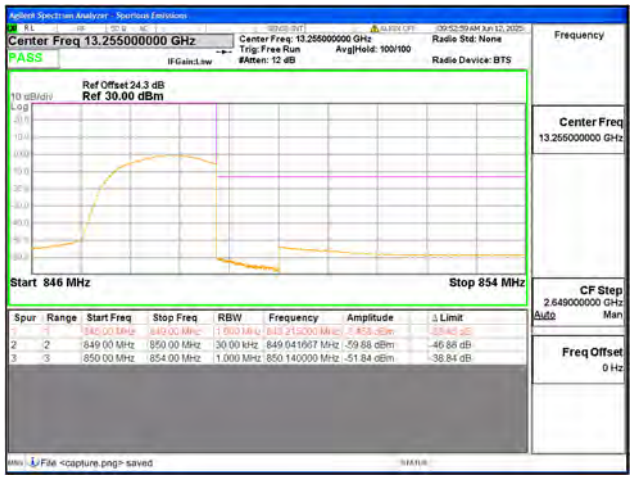
B25 / 20MHz / High CH / QPSK / FULL RB

B26 / 1.4MHz / Low CH / QPSK / 1 RB

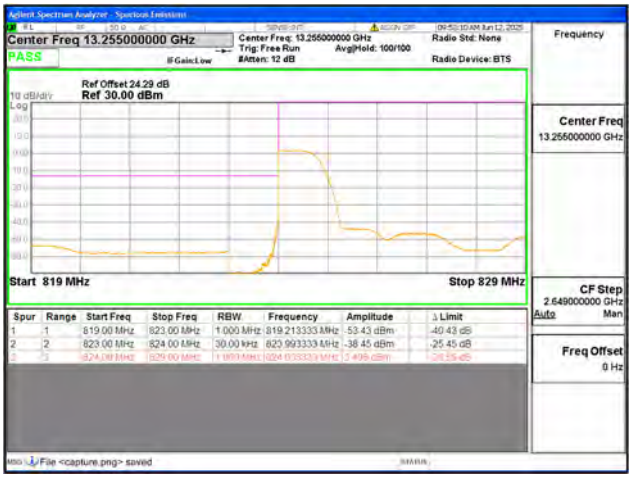
B26 / 1.4MHz / Low CH / QPSK / FULL RB



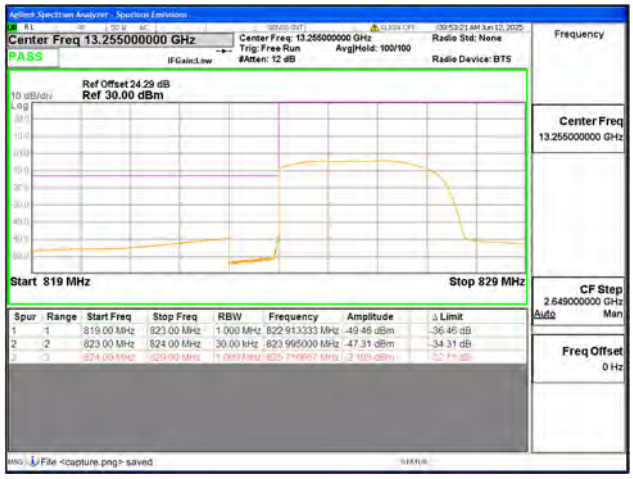
B26 / 1.4MHz / High CH / QPSK / 1 RB



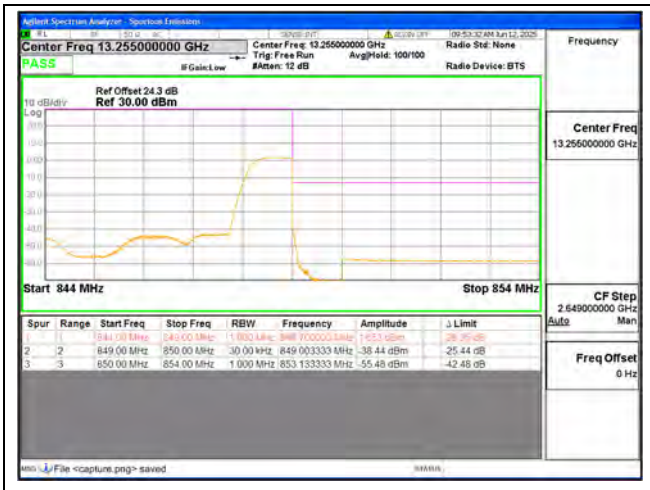
B26 / 1.4MHz / High CH / QPSK / FULL RB



B26 / 3MHz / Low CH / QPSK / 1 RB

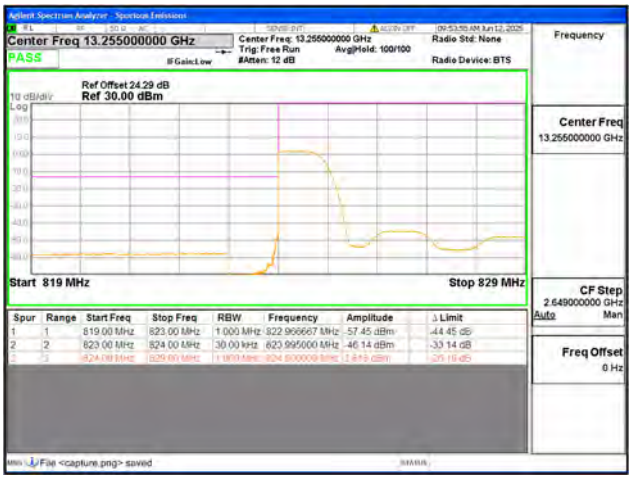


B26 / 3MHz / Low CH / QPSK / FULL RB

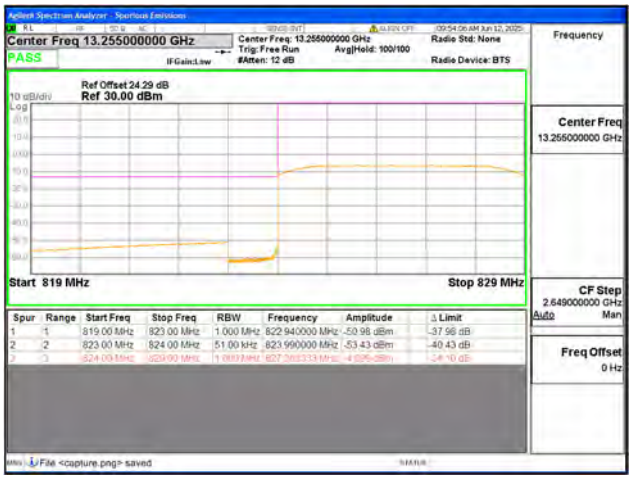


B26 / 3MHz / High CH / QPSK / 1 RB

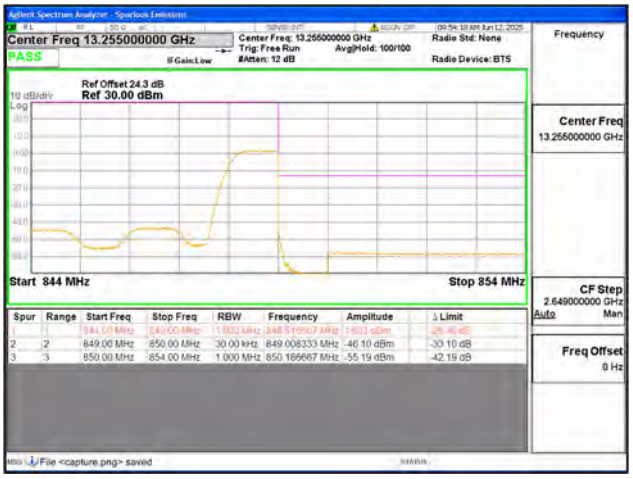
B26 / 3MHz / High CH / QPSK / FULL RB



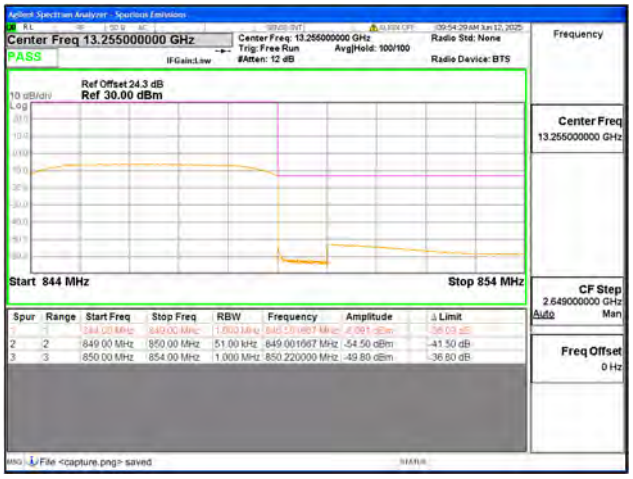
B26 / 5MHz / Low CH / QPSK / 1 RB



B26 / 5MHz / Low CH / QPSK / FULL RB



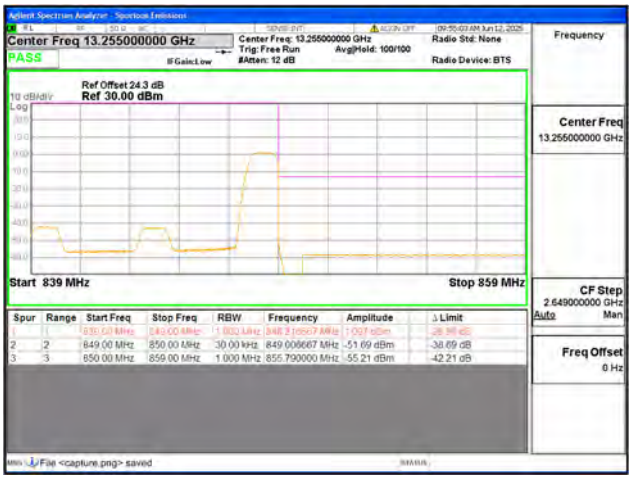
B26 / 5MHz / High CH / QPSK / 1 RB



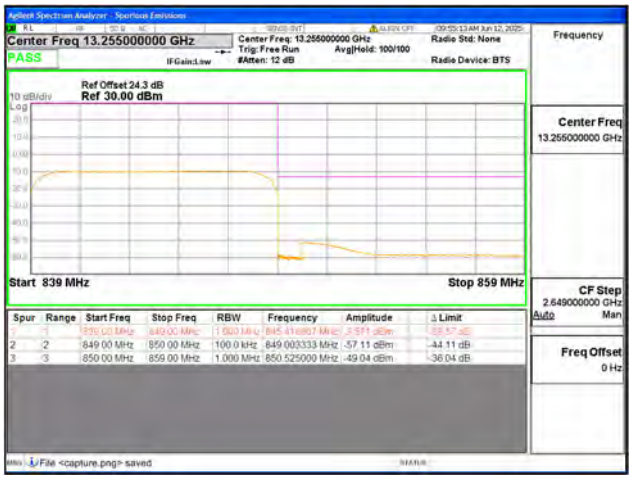
B26 / 5MHz / High CH / QPSK / FULL RB

B26 / 10MHz / Low CH / QPSK / 1 RB

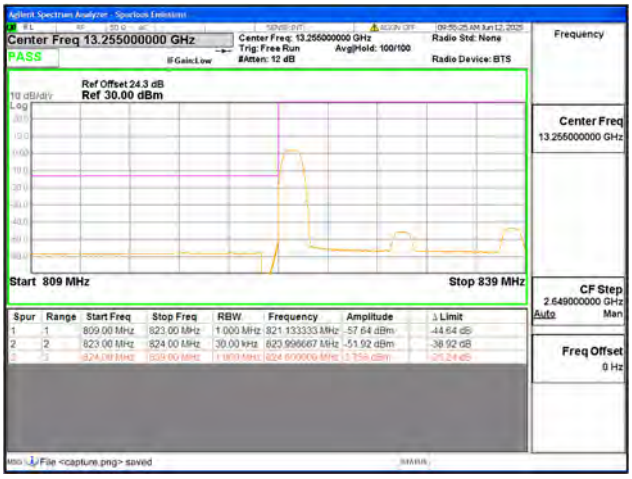
B26 / 10MHz / Low CH / QPSK / FULL RB



B26 / 10MHz / High CH / QPSK / 1 RB

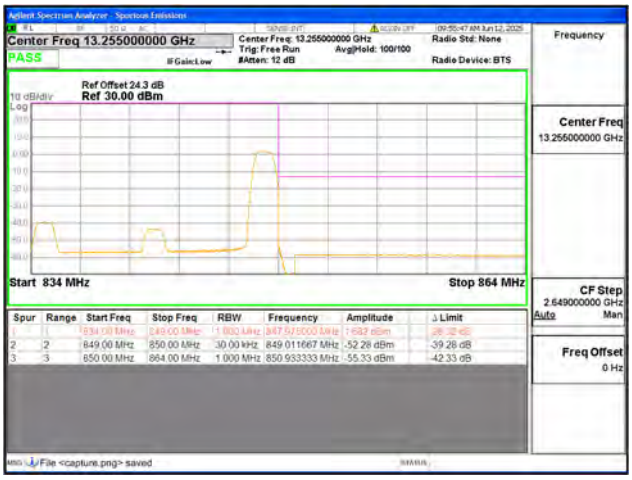


B26 / 10MHz / High CH / QPSK / FULL RB

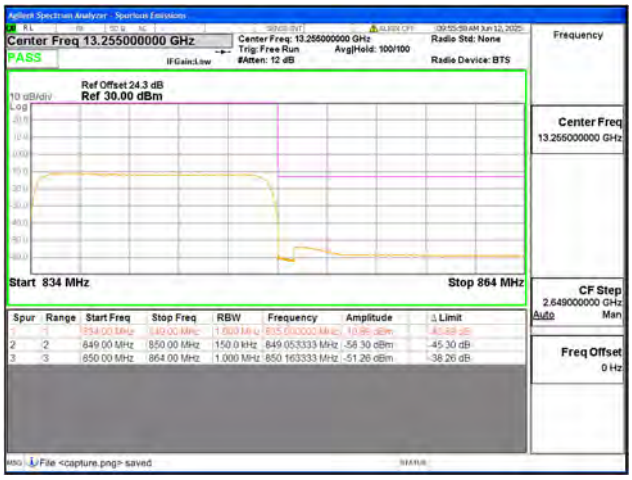


B26 / 15MHz / Low CH / QPSK / 1 RB

B26 / 15MHz / Low CH / QPSK / FULL RB



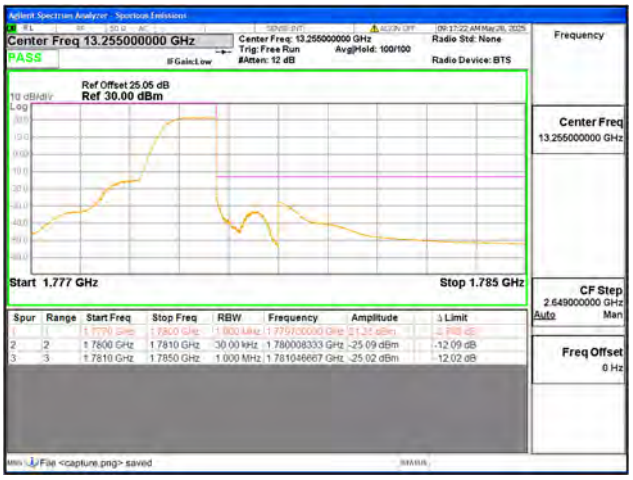
B26 / 15MHz / High CH / QPSK / 1 RB



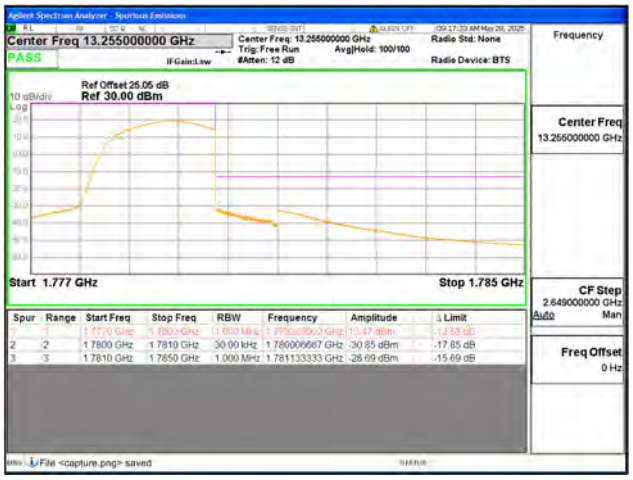
B26 / 15MHz / High CH / QPSK / FULL RB

B66 / 1.4MHz / Low CH / QPSK / 1 RB

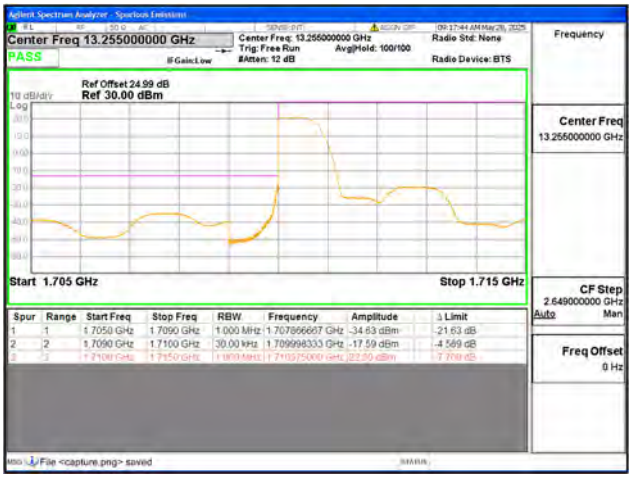
B66 / 1.4MHz / Low CH / QPSK / FULL RB



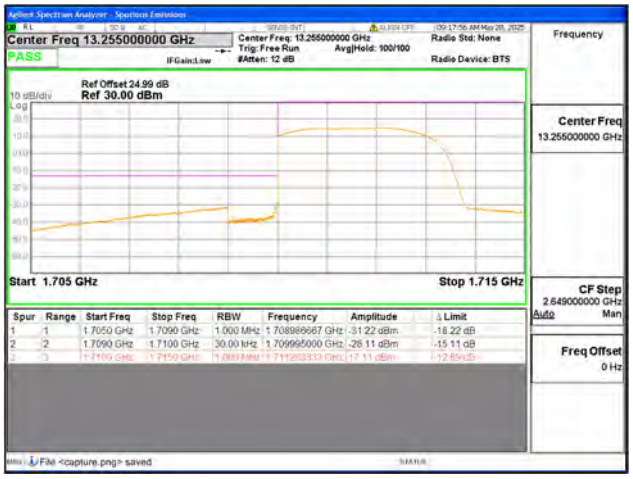
B66 / 1.4MHz / High CH / QPSK / 1 RB



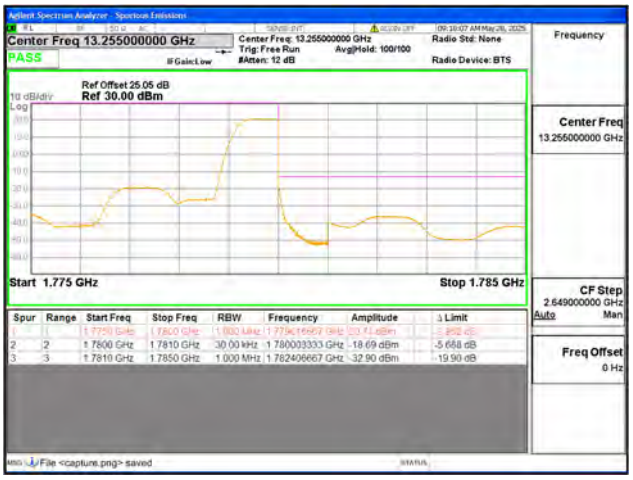
B66 / 1.4MHz / High CH / QPSK / FULL RB



B66 / 3MHz / Low CH / QPSK / 1 RB

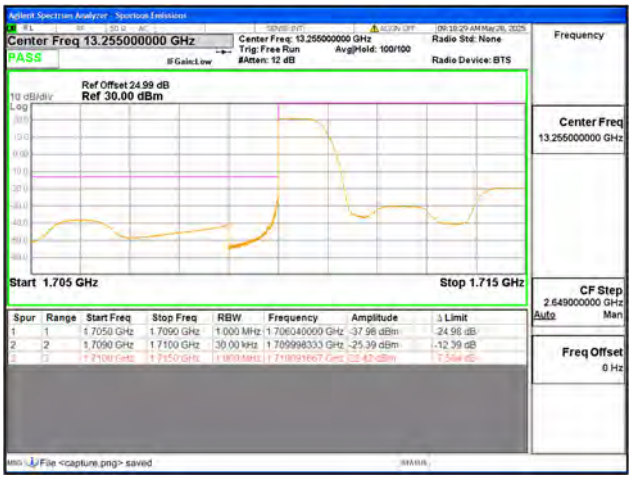


B66 / 3MHz / Low CH / QPSK / FULL RB



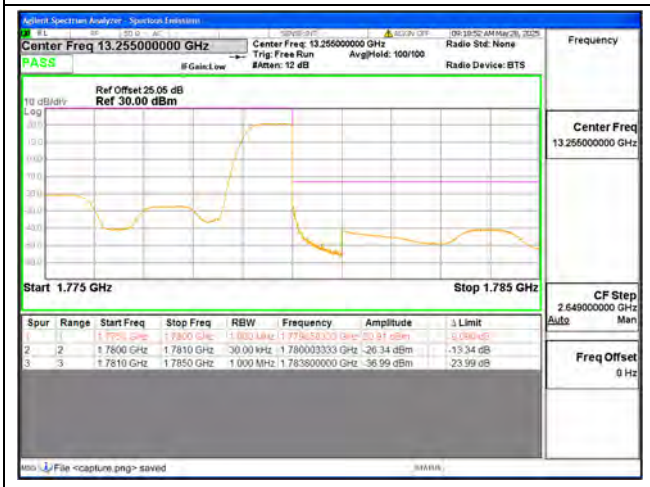
B66 / 3MHz / High CH / QPSK / 1 RB

B66 / 3MHz / High CH / QPSK / FULL RB



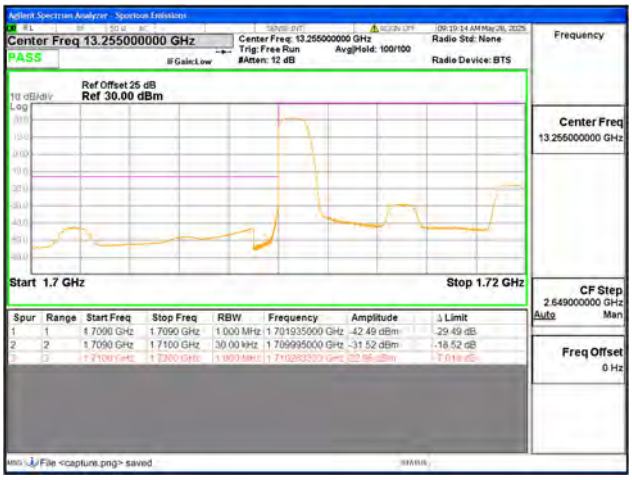
B66 / 5MHz / Low CH / QPSK / 1 RB

B66 / 5MHz / Low CH / QPSK / FULL RB



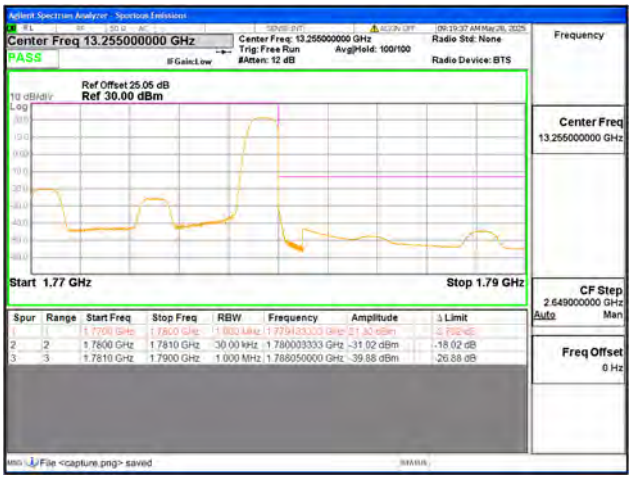
B66 / 5MHz / High CH / QPSK / 1 RB

B66 / 5MHz / High CH / QPSK / FULL RB

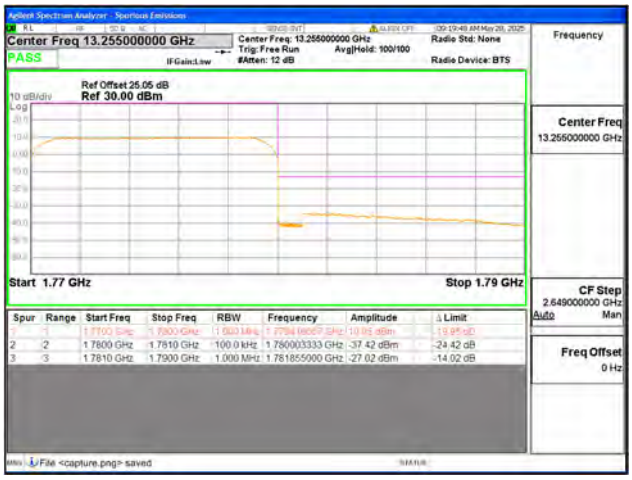


B66 / 10MHz / Low CH / QPSK / 1 RB

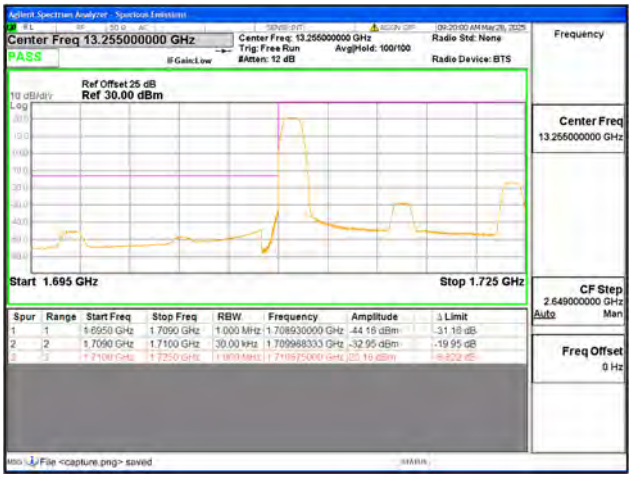
B66 / 10MHz / Low CH / QPSK / FULL RB



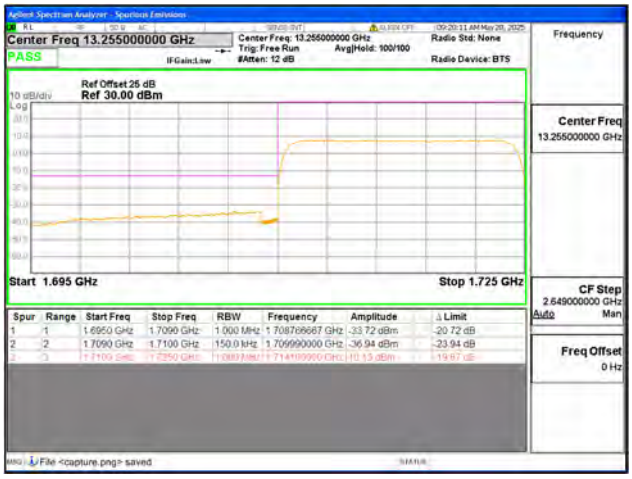
B66 / 10MHz / High CH / QPSK / 1 RB



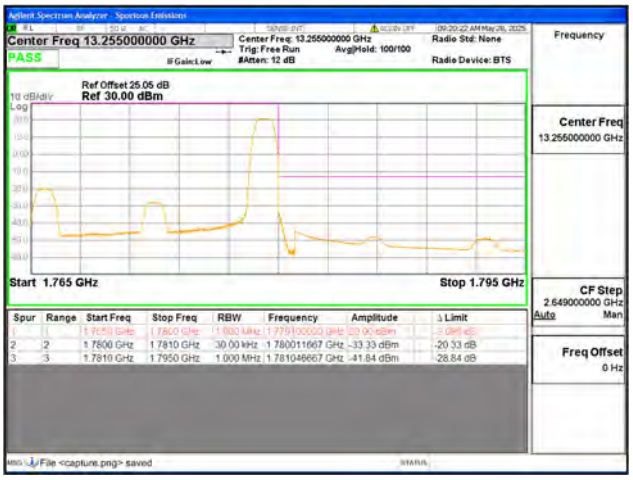
B66 / 10MHz / High CH / QPSK / FULL RB



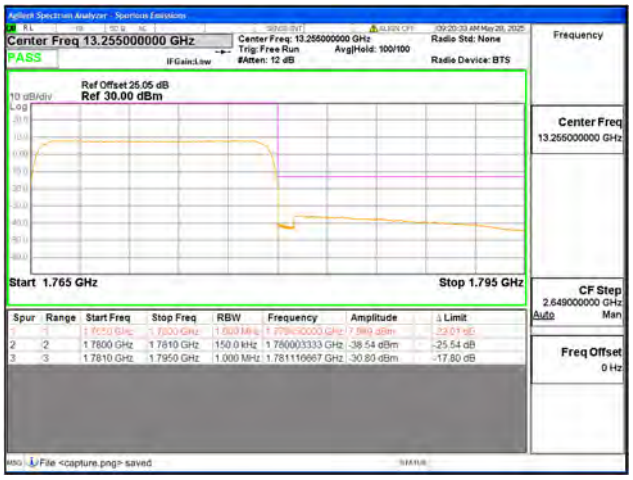
B66 / 15MHz / Low CH / QPSK / 1 RB



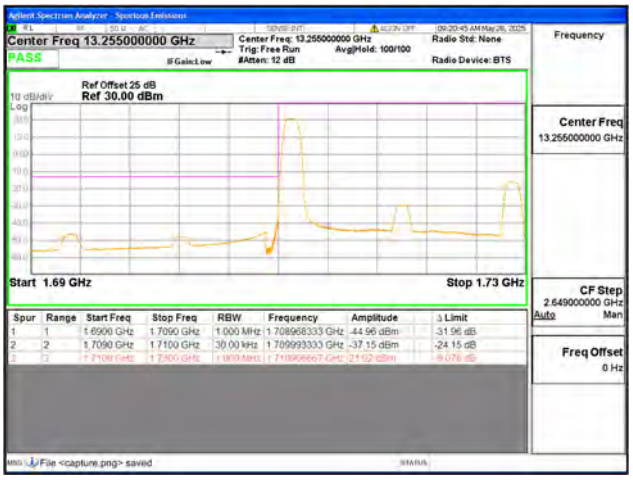
B66 / 15MHz / Low CH / QPSK / FULL RB



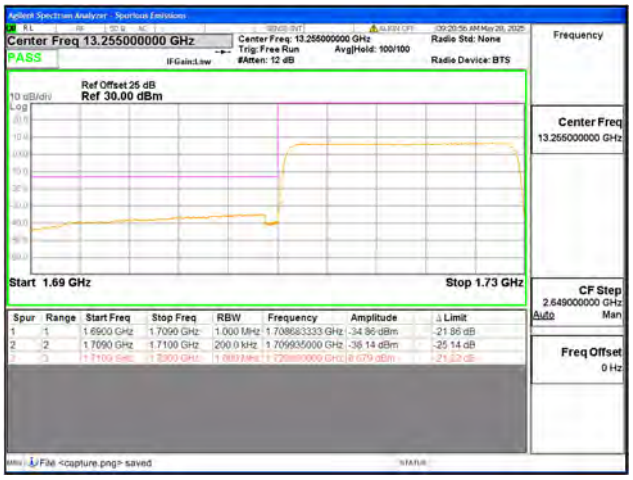
B66 / 15MHz / High CH / QPSK / 1 RB



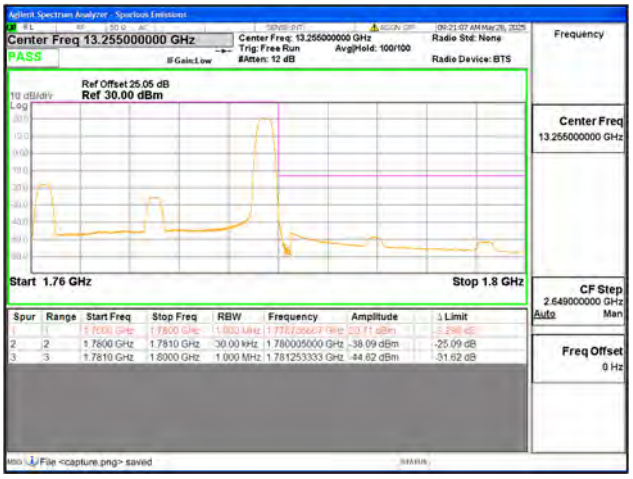
B66 / 15MHz / High CH / QPSK / FULL RB



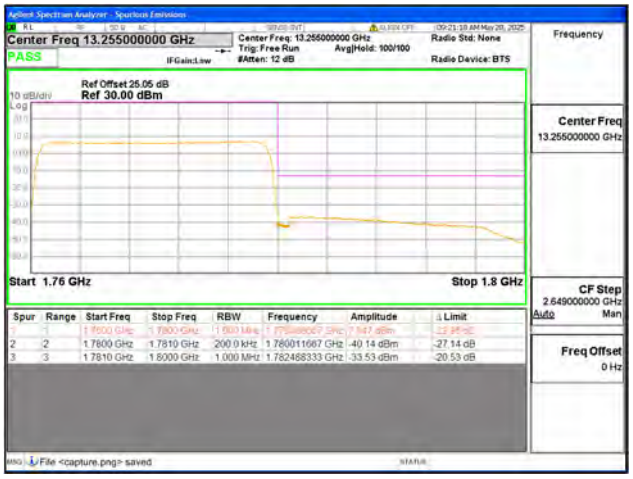
B66 / 20MHz / Low CH / QPSK / 1 RB



B66 / 20MHz / Low CH / QPSK / FULL RB



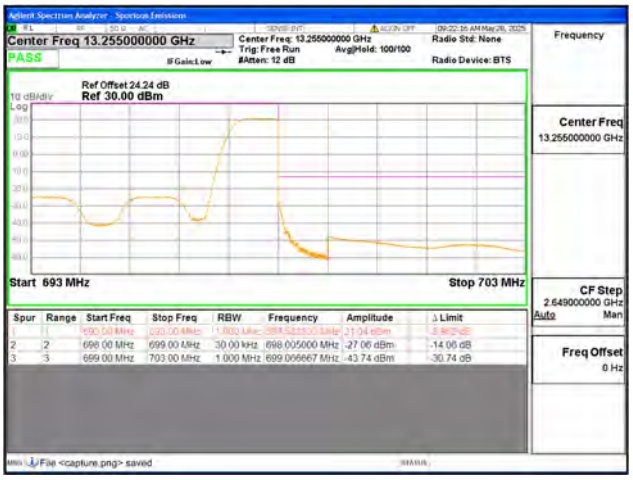
B66 / 20MHz / High CH / QPSK / 1 RB



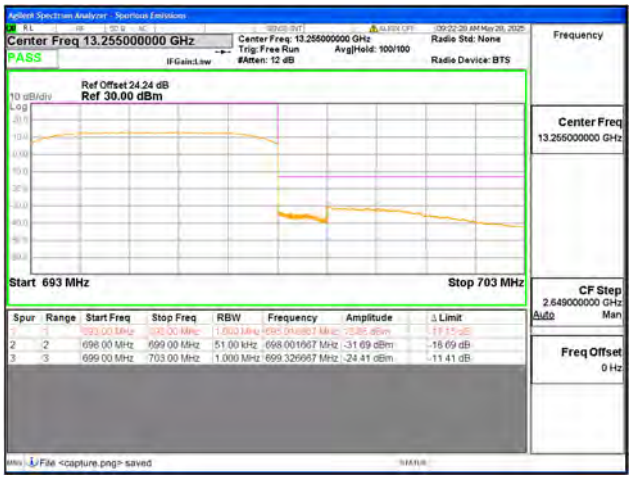
B66 / 20MHz / High CH / QPSK / FULL RB

B71 / 5MHz / Low CH / QPSK / 1 RB

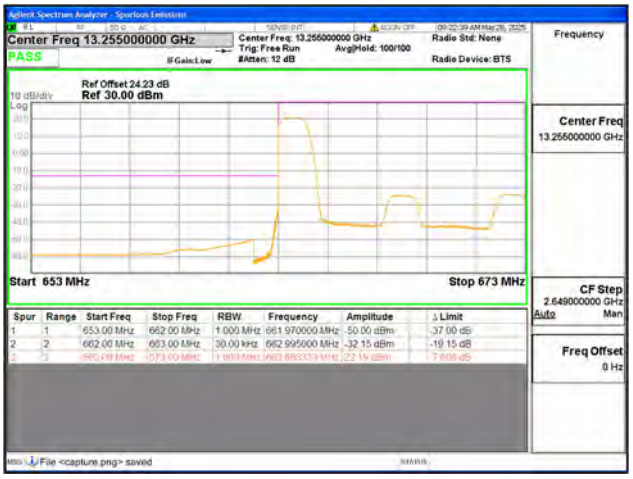
B71 / 5MHz / Low CH / QPSK / FULL RB



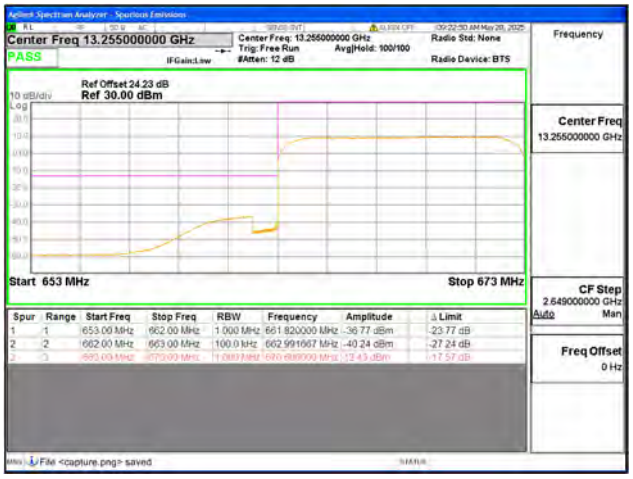
B71 / 5MHz / High CH / QPSK / 1 RB



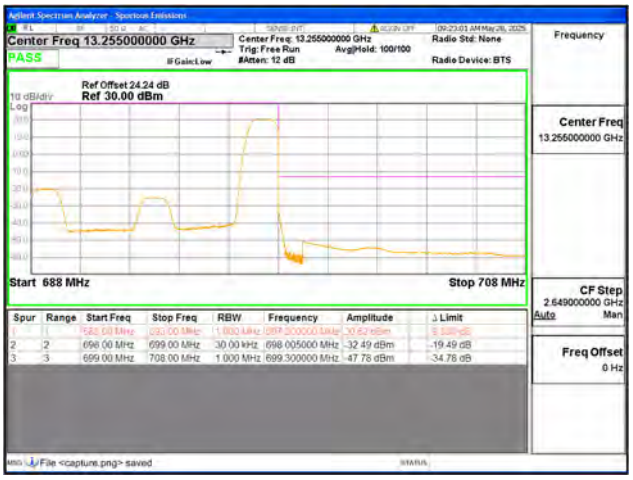
B71 / 5MHz / High CH / QPSK / FULL RB



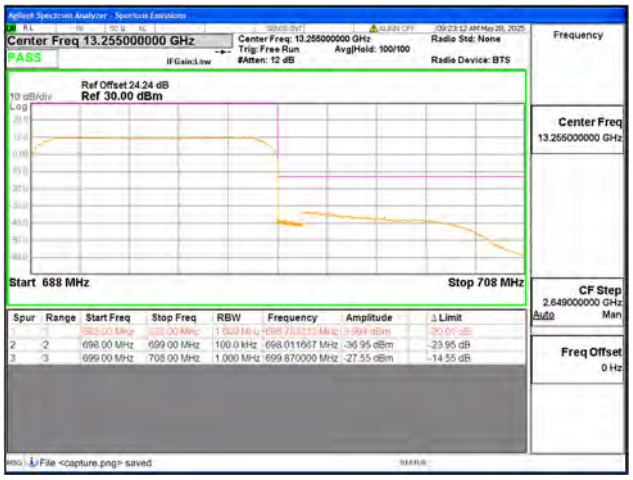
B71 / 10MHz / Low CH / QPSK / 1 RB



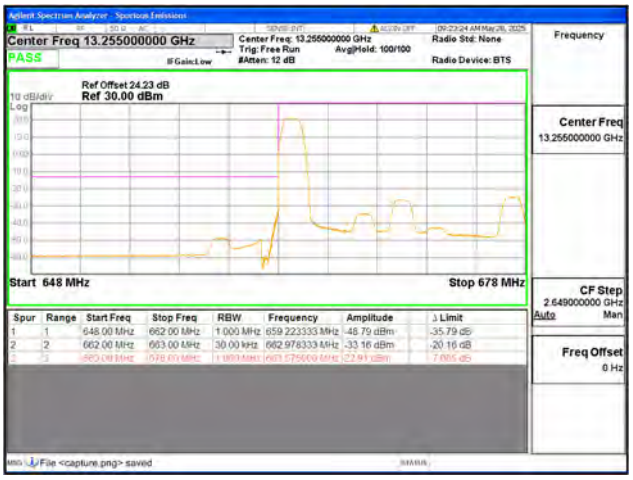
B71 / 10MHz / Low CH / QPSK / FULL RB



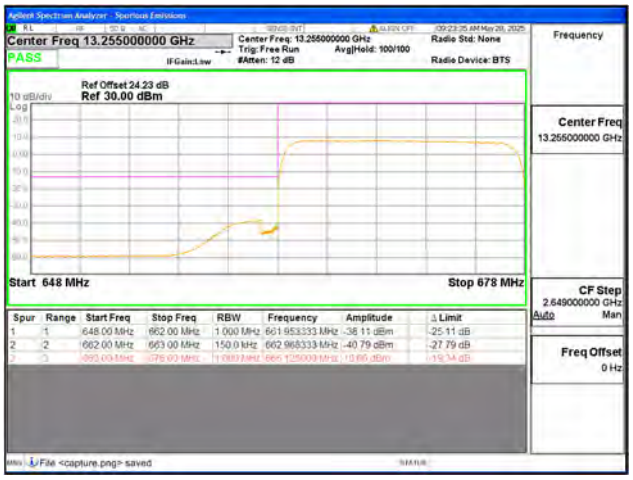
B71 / 10MHz / High CH / QPSK / 1 RB



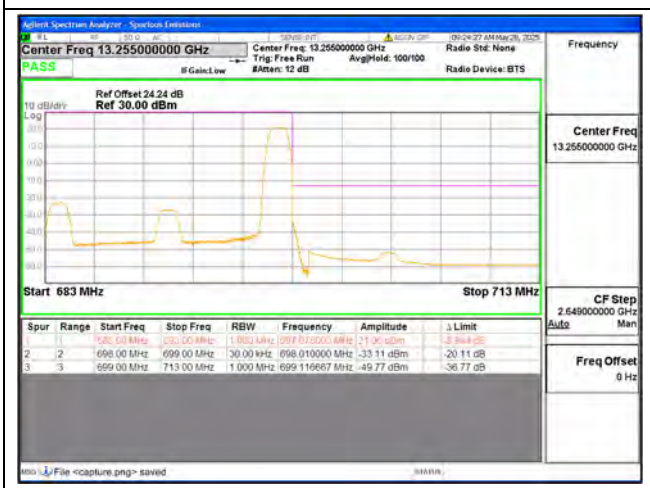
B71 / 10MHz / High CH / QPSK / FULL RB



B71 / 15MHz / Low CH / QPSK / 1 RB

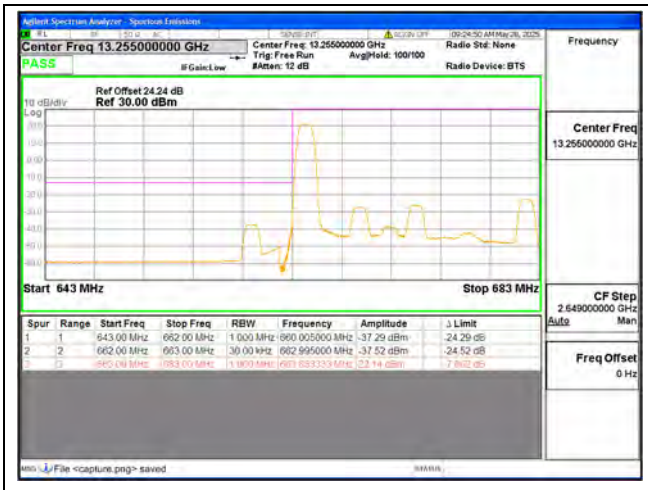


B71 / 15MHz / Low CH / QPSK / FULL RB



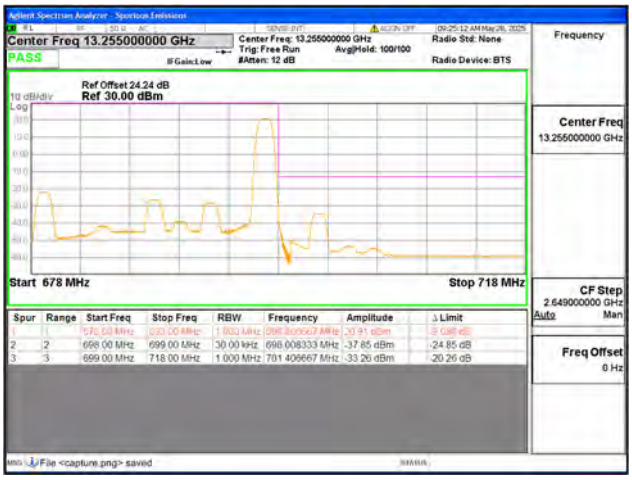
B71 / 15MHz / High CH / QPSK / 1 RB

B71 / 15MHz / High CH / QPSK / FULL RB

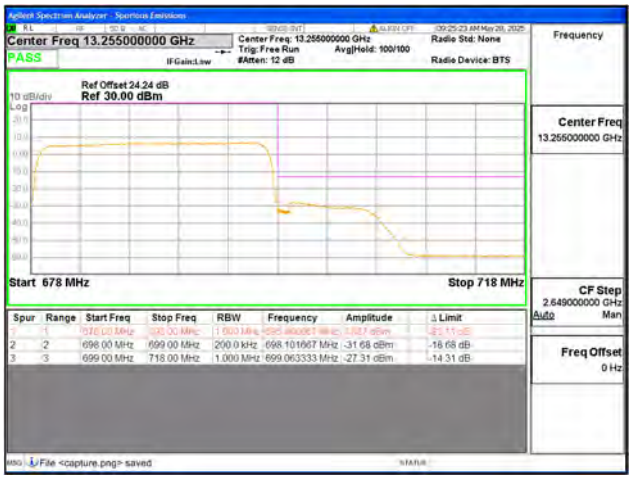


B71 / 20MHz / Low CH / QPSK / 1 RB

B71 / 20MHz / Low CH / QPSK / FULL RB



B71 / 20MHz / High CH / QPSK / 1 RB



B71 / 20MHz / High CH / QPSK / FULL RB

2.7. Radiated Spurious Emissions

2.7.1. Requirement

According to FCC section 2.1051, the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43+10*log(P)dB. This calculated to be -13dBm.

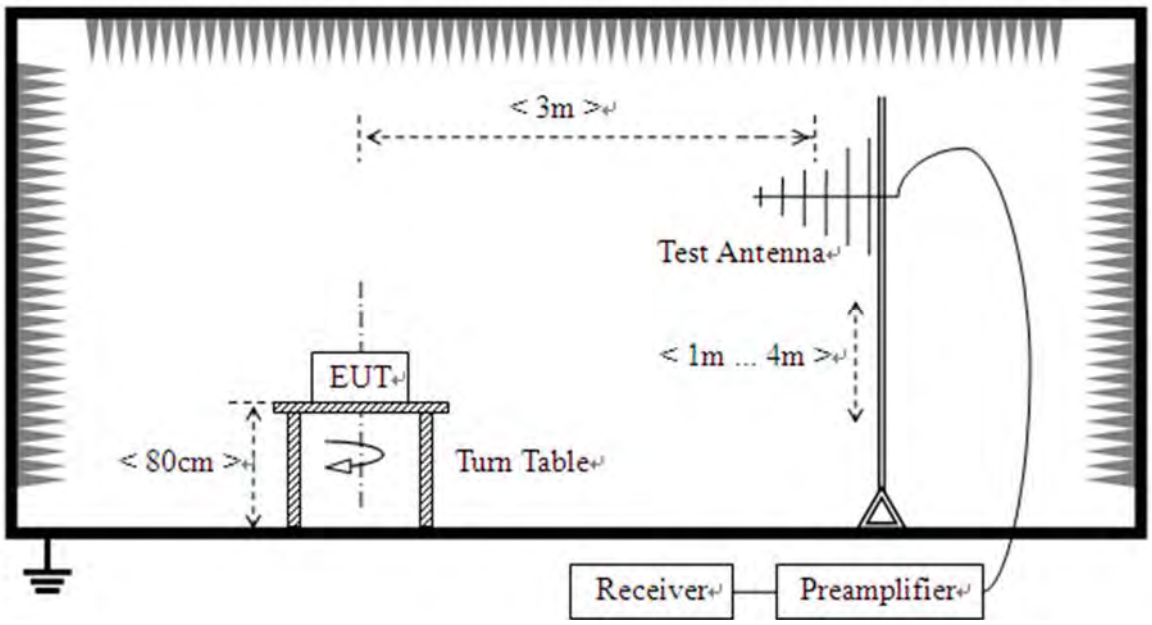
Additional requirement for LTE Band 7, 38, 41

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 55 + 10 log(P) dB. This calculated to be -25dBm.

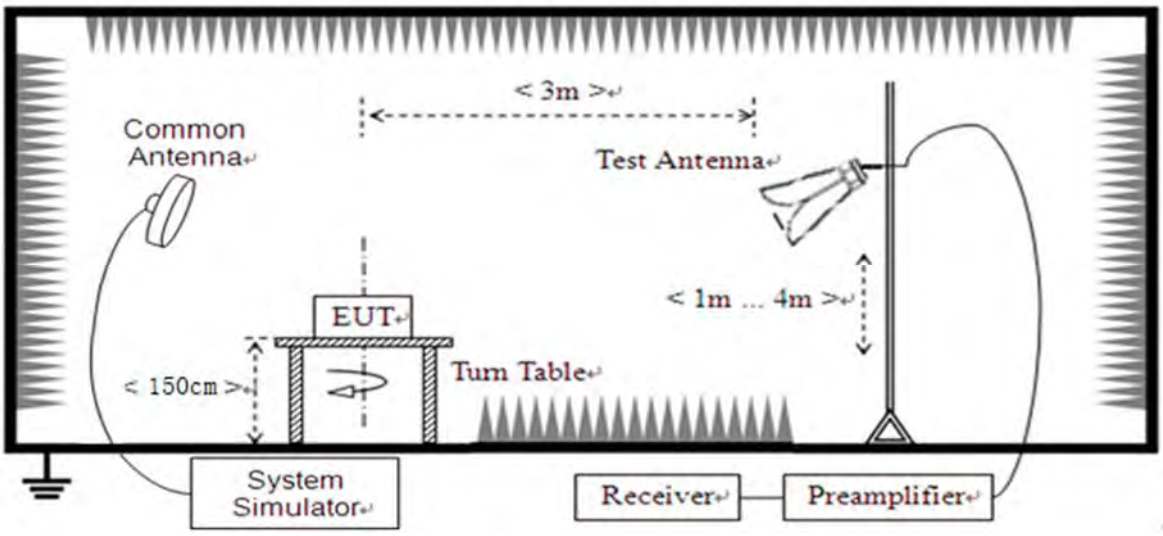
Additional requirement for Band 13

For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to −70 dBW/MHz equivalent isotropically radiated power (E.I.R.P.) for wideband signals, and −80 dBW E.I.R.P. for discrete emissions of less than 700 Hz bandwidth. This calculated to be -40dBm.

2.7.2. Test Description



(For the test frequency from 30MHz to1GHz)



(For the test frequency above 1GHz)

The EUT is located in a 3m Full-Anechoic Chamber, the cable loss, air loss and so on of the site as factors are pre-calibrated using the "Substitution" method, and calculated to correct the reading.
A call is established between the EUT and the SS via a Common Antenna. The EUT is commanded by the SS to operate at the maximum and minimum output power, and only the test result of the maximum output power was recorded.
In the frequency range above 30MHz, Bi-Log Test Antenna (30MHz to 1GHz) and Horn Test Antenna (above 1GHz) are used. Test Antenna is 3m away from the EUT. Test Antenna height is varied from 1m to 4m above the ground and the Turn Table is actuated to turn from 0° to 360°to determine the maximum value of the radiated power. The emission levels at both horizontal and vertical polarizations should be tested. The Filters consists of Notch Filters and High Pass Filter.

Note: When doing measurements above 1GHz, the EUT has been within the 3dB cone width of the horn antenna during horizontal antenna.

2.7.3. Test Procedure

KDB 971168 D01v03 Section 5.8 and ANSI/TIA-603-E-2016.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements.

For measurements above 1GHz (exclude 1559-1610 MHz) the resolution bandwidth is set to 1MHz, the video band width is set to 3MHz for peak measurements.

2.7.4. Test Result

The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. The Turn Table is actuated to turn from 0° to 360°, and both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. The lowest, middle and highest channels are tested to verify the out of band emissions.

The substitution corrections are obtained as described below:

$A_{SUBST} = P_{SUBST\_TX} - P_{SUBST\_RX} - L_{SUBST\_CABLES} + G_{SUBST\_TX\_ANT}$

$A_{TOT} = L_{CABLES} + A_{SUBST}$

Where A_{SUBST} is the final substitution correction including receive antenna gain.

P_{SUBST_TX} is signal generator level,

P_{SUBST_RX} is receiver level,

L_{SUBST_CABLES} is cable losses including TX cable,

$G_{SUBST\_TX\_ANT}$ is substitution antenna gain.

A_{TOT} is total correction factor including cable loss and substitution correction

During the test, the data of A_{TOT} was added in the test spectrum analyze, so spectrum analyze reading is the final values which contain the data of A_{TOT}.

Note1: The power of the EUT transmitting frequency should be ignored.

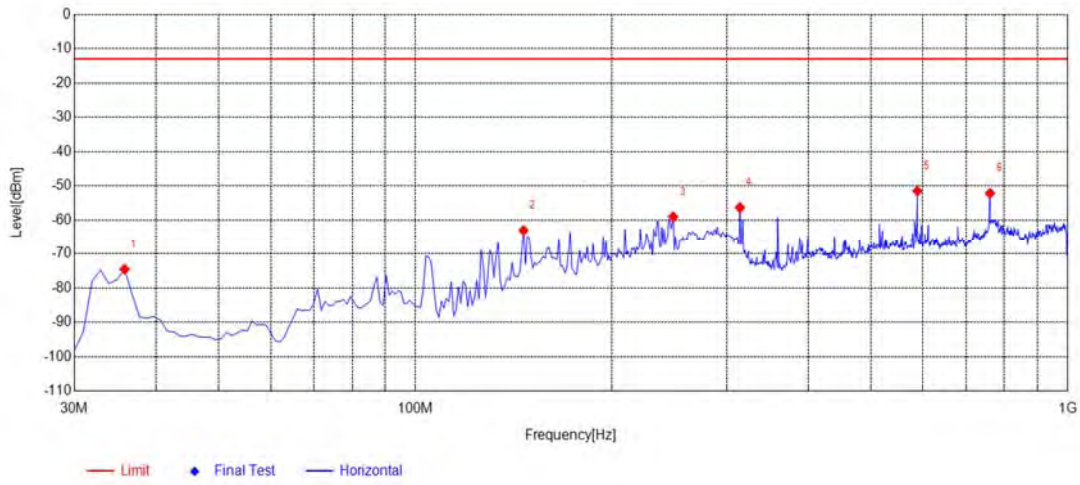
Note2: All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

Note3: All bandwidth and modulation were considered and evaluated respectively by performing full test for each band, only the worst cases (Max Bandwidth and QPSK mode) were recorded in this test report.

Note 4: N/A means the frequency is the basic frequency or the base station frequency, they are no need to verdict.

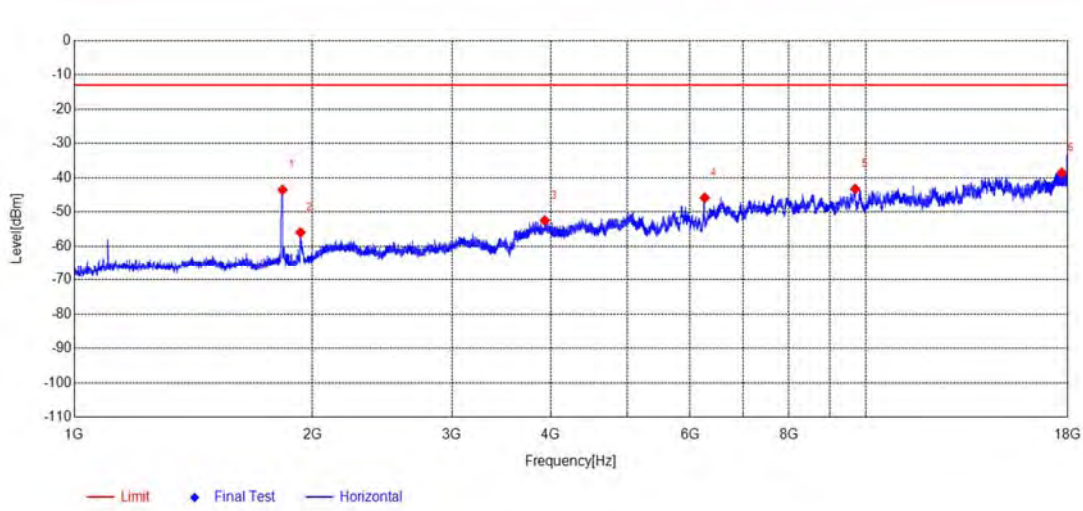
LTE Band 2

Plot for Low Channel



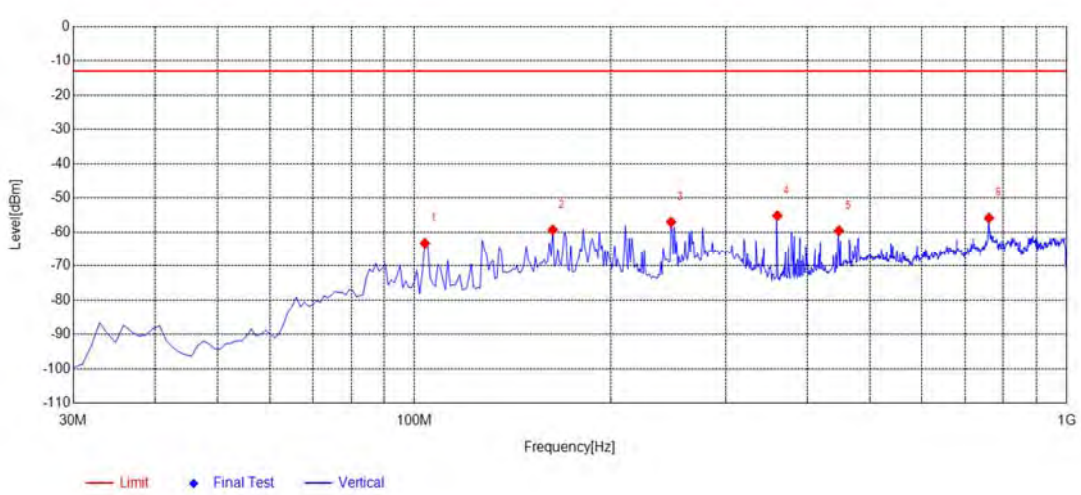
(Antenna Horizontal, 30MHz to 1GHz)

Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity	Verdict
35.8258	-42.56	-74.55	-13.00	61.55	-31.99	Horizontal	PASS
146.5165	-46.29	-63.03	-13.00	50.03	-16.74	Horizontal	PASS
248.4685	-53.58	-59.01	-13.00	46.01	-5.43	Horizontal	PASS
314.4945	-49.66	-56.34	-13.00	43.34	-6.68	Horizontal	PASS
588.3083	-53.67	-51.51	-13.00	38.51	2.16	Horizontal	PASS
760.1702	-59.81	-52.14	-13.00	39.14	7.67	Horizontal	PASS



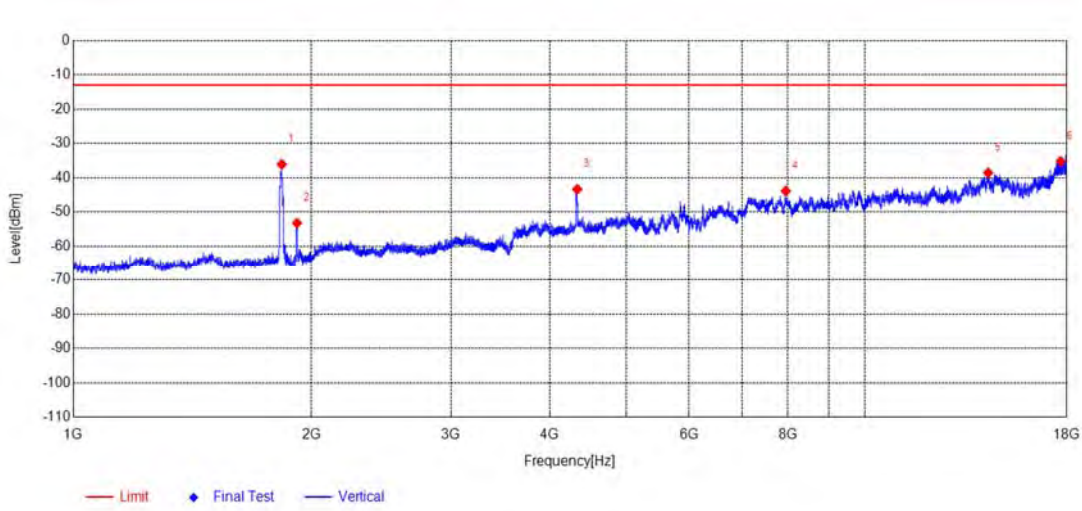
(Antenna Horizontal, 1GHz to 18GHz)

Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity	Verdict
1833.0833	-31.23	-43.58	-13.00	30.58	-12.35	Horizontal	NA
1931.5932	-43.91	-55.96	-13.00	42.96	-12.05	Horizontal	NA
3931.7932	-48.97	-52.51	-13.00	39.51	-3.54	Horizontal	PASS
6261.6262	-49.12	-45.87	-13.00	32.87	3.25	Horizontal	PASS
9701.1701	-58.18	-43.32	-13.00	30.32	14.86	Horizontal	PASS
17692.7693	-59.43	-38.54	-13.00	25.54	20.89	Horizontal	PASS



(Antenna Vertical, 30MHz to 1GHz)

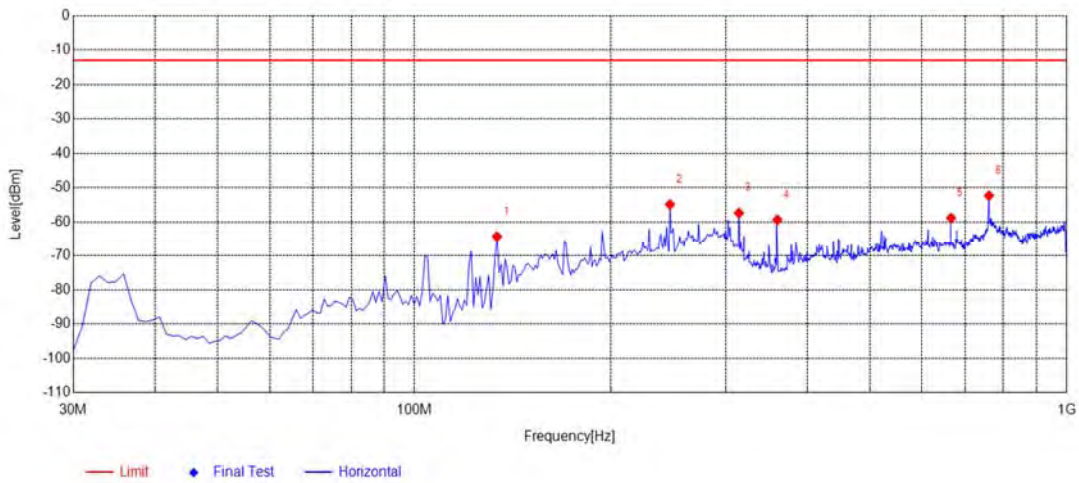
Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity	Verdict
103.7938	-49.55	-63.23	-13.00	50.23	-13.68	Vertical	PASS
163.0230	-47.83	-59.29	-13.00	46.29	-11.46	Vertical	PASS
247.4975	-48.11	-57.04	-13.00	44.04	-8.93	Vertical	PASS
360.1301	-49.86	-55.16	-13.00	42.16	-5.30	Vertical	PASS
447.5175	-57.22	-59.53	-13.00	46.53	-2.31	Vertical	PASS
760.1702	-63.22	-55.84	-13.00	42.84	7.38	Vertical	PASS



(Antenna Vertical, 1GHz to 18GHz)

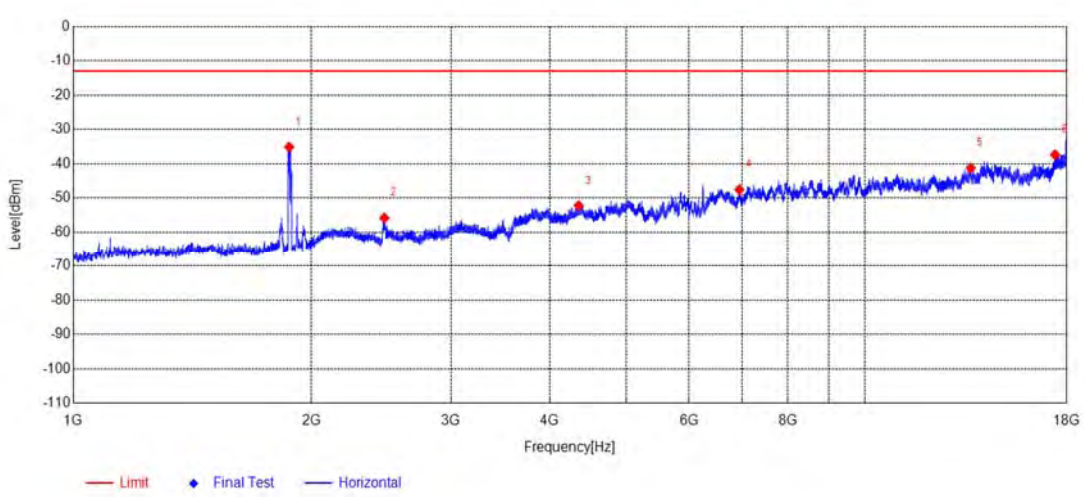
Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity	Verdict
1834.0834	-23.63	-36.10	-13.00	23.10	-12.47	Vertical	NA
1917.5918	-41.25	-53.22	-13.00	40.22	-11.97	Vertical	NA
4333.3333	-41.21	-43.36	-13.00	30.36	-2.15	Vertical	PASS
7948.9949	-53.97	-43.86	-13.00	30.86	10.11	Vertical	PASS
14325.2325	-58.53	-38.57	-13.00	25.57	19.96	Vertical	PASS
17692.7693	-58.65	-35.20	-13.00	22.20	23.45	Vertical	PASS

Plot for Mid Channel



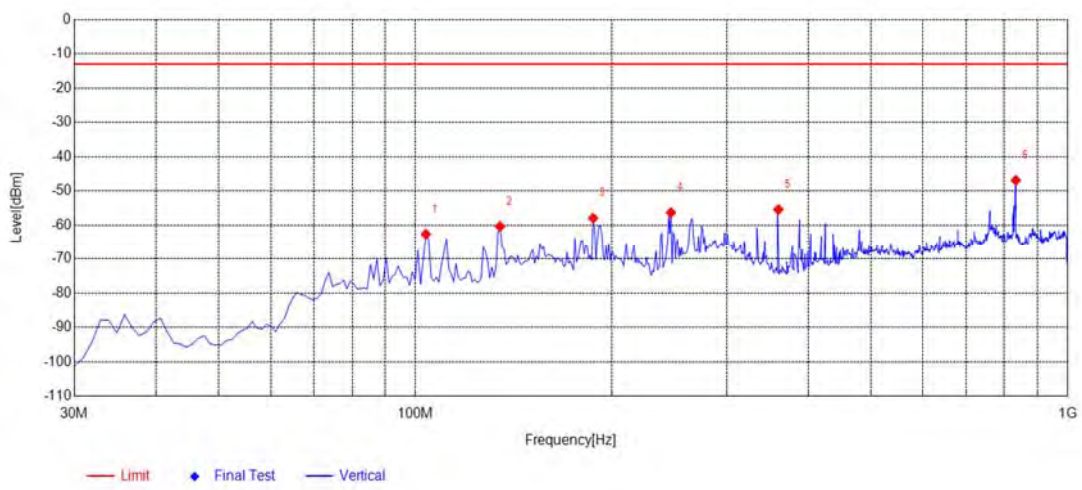
(Antenna Horizontal, 30MHz to 1GHz)

Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity	Verdict
133.8939	-46.04	-64.25	-13.00	51.25	-18.21	Horizontal	PASS
246.5265	-49.99	-54.86	-13.00	41.86	-4.87	Horizontal	PASS
314.4945	-50.68	-57.36	-13.00	44.36	-6.68	Horizontal	PASS
360.1301	-53.43	-59.32	-13.00	46.32	-5.89	Horizontal	PASS
665.0150	-60.75	-58.79	-13.00	45.79	1.96	Horizontal	PASS
760.1702	-59.97	-52.30	-13.00	39.30	7.67	Horizontal	PASS



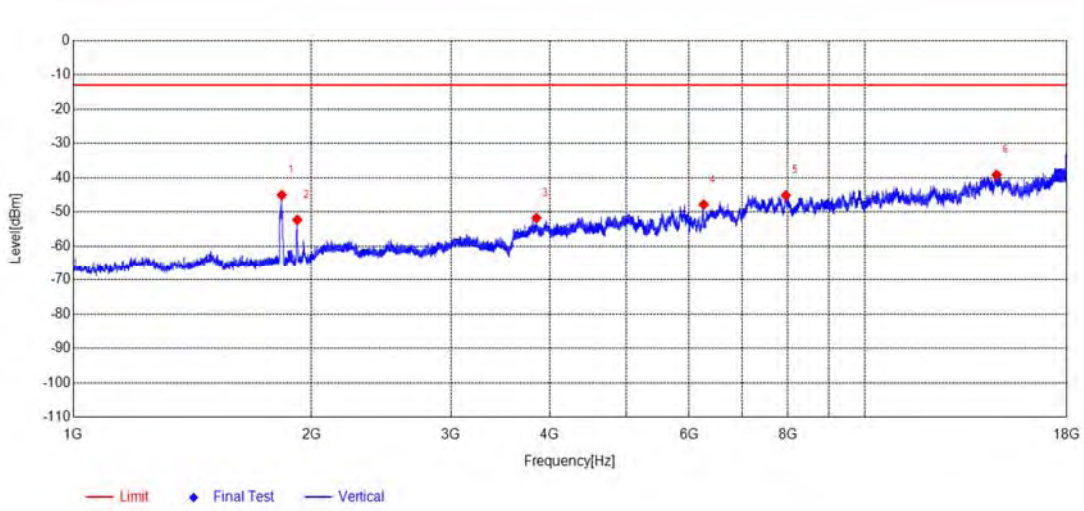
(Antenna Horizontal, 1GHz to 18GHz)

Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity	Verdict
1874.0874	-23.09	-35.13	-13.00	22.13	-12.04	Horizontal	NA
2472.6473	-45.74	-55.84	-13.00	42.84	-10.10	Horizontal	PASS
4352.3352	-49.98	-52.23	-13.00	39.23	-2.25	Horizontal	PASS
6945.6946	-54.23	-47.53	-13.00	34.53	6.70	Horizontal	PASS
13618.3618	-58.69	-41.28	-13.00	28.28	17.41	Horizontal	PASS
17408.3408	-60.17	-37.40	-13.00	24.40	22.77	Horizontal	PASS



(Antenna Vertical, 30MHz to 1GHz)

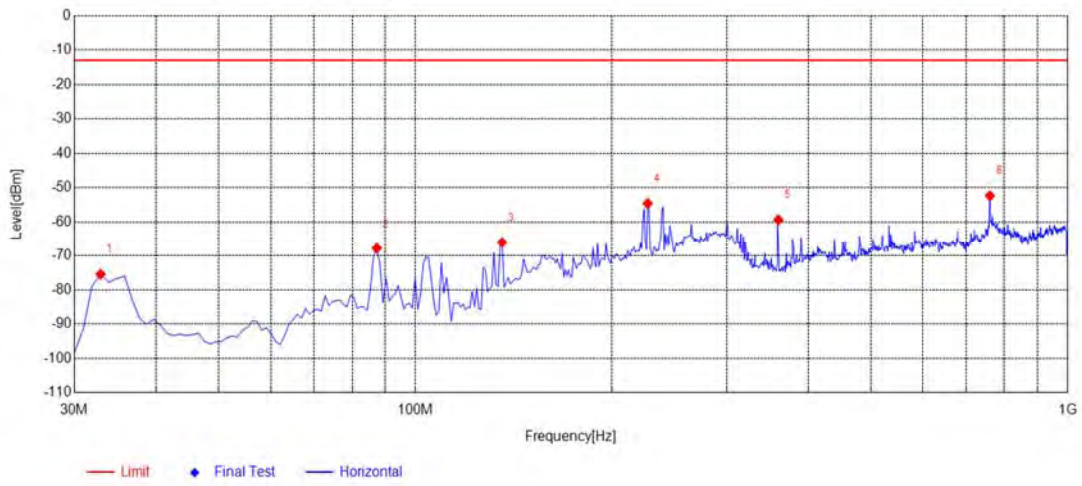
Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity	Verdict
103.7938	-48.94	-62.62	-13.00	49.62	-13.68	Vertical	PASS
134.8649	-51.53	-60.34	-13.00	47.34	-8.81	Vertical	PASS
187.2973	-47.67	-57.92	-13.00	44.92	-10.25	Vertical	PASS
246.5265	-47.48	-56.30	-13.00	43.30	-8.82	Vertical	PASS
360.1301	-50.13	-55.43	-13.00	42.43	-5.30	Vertical	PASS
832.9930	-51.84	-46.88	-13.00	33.88	4.96	Vertical	PASS



(Antenna Vertical, 1GHz to 18GHz)

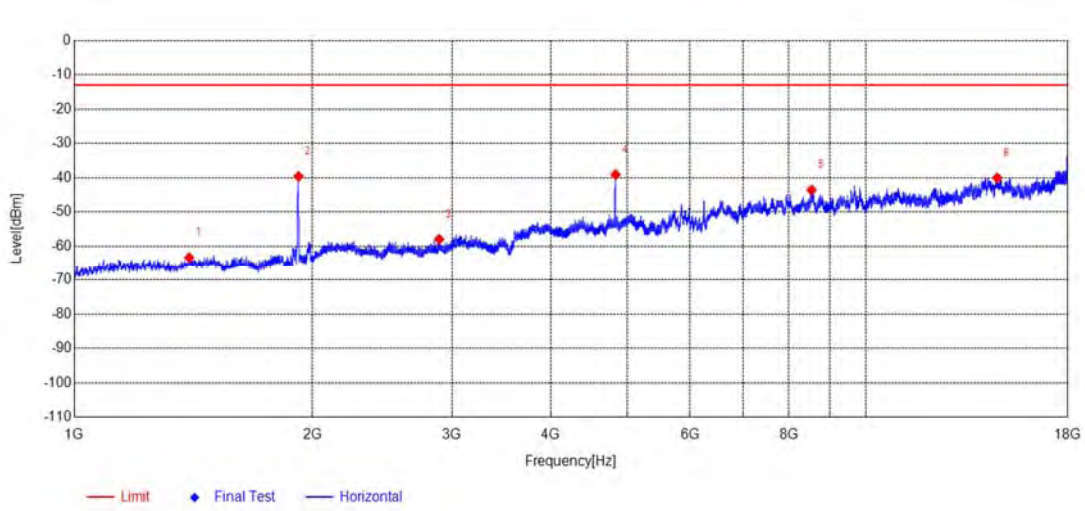
Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity	Verdict
1834.5835	-32.61	-45.08	-13.00	32.08	-12.47	Vertical	NA
1919.0919	-40.34	-52.32	-13.00	39.32	-11.98	Vertical	NA
3848.2848	-48.06	-51.76	-13.00	38.76	-3.70	Vertical	PASS
6261.6262	-50.87	-47.84	-13.00	34.84	3.03	Vertical	PASS
7950.1950	-55.36	-45.17	-13.00	32.17	10.19	Vertical	PASS
14680.4680	-59.61	-39.17	-13.00	26.17	20.44	Vertical	PASS

Plot for High Channel



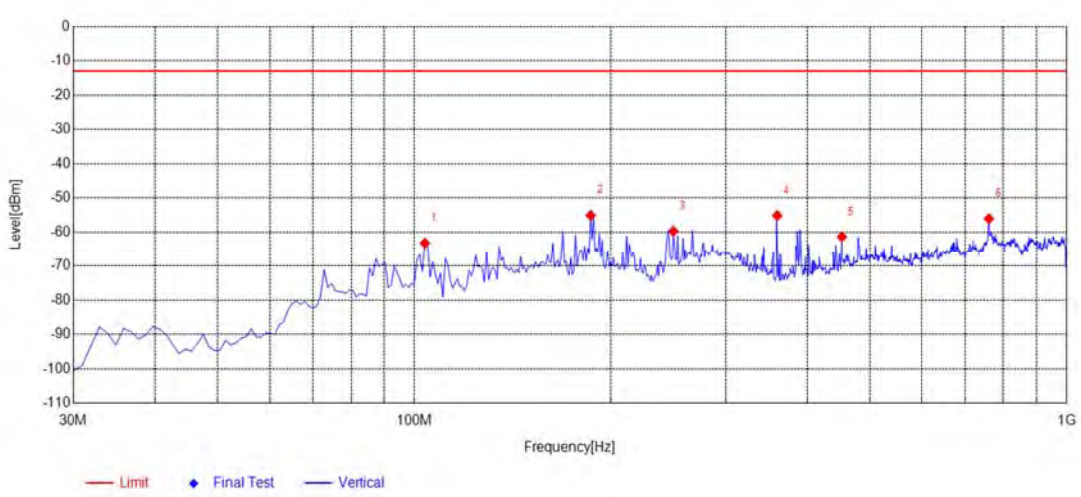
(Antenna Horizontal, 30MHz to 1GHz)

Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity	Verdict
32.9129	-44.27	-75.41	-13.00	62.41	-31.14	Horizontal	PASS
87.2873	-45.08	-67.83	-13.00	54.83	-22.75	Horizontal	PASS
135.8358	-49.70	-66.02	-13.00	53.02	-16.32	Horizontal	PASS
227.1071	-51.35	-54.56	-13.00	41.56	-3.21	Horizontal	PASS
360.1301	-53.44	-59.33	-13.00	46.33	-5.89	Horizontal	NA
760.1702	-60.04	-52.37	-13.00	39.37	7.67	Horizontal	NA



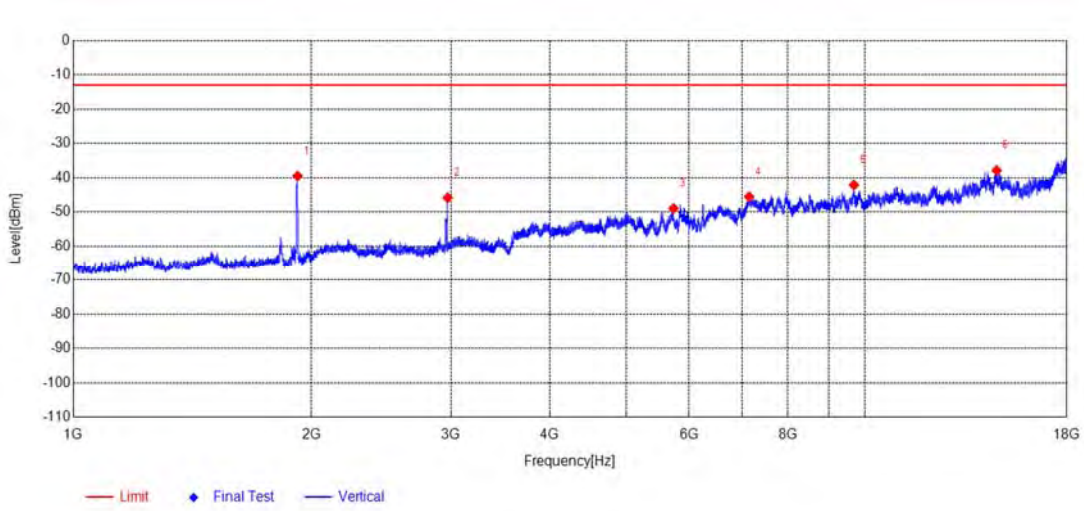
(Antenna Horizontal, 1GHz to 18GHz)

Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity	Verdict
1397.0397	-49.73	-63.33	-13.00	50.33	-13.60	Horizontal	PASS
1920.0920	-27.66	-39.63	-13.00	26.63	-11.97	Horizontal	NA
2891.6892	-49.64	-57.96	-13.00	44.96	-8.32	Horizontal	PASS
4831.8832	-39.07	-39.11	-13.00	26.11	-0.04	Horizontal	PASS
8544.2544	-54.41	-43.60	-13.00	30.60	10.81	Horizontal	PASS
14663.6664	-60.14	-40.02	-13.00	27.02	20.12	Horizontal	PASS



(Antenna Vertical, 30MHz to 1GHz)

Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity	Verdict
103.7938	-49.51	-63.19	-13.00	50.19	-13.68	Vertical	PASS
186.3263	-44.31	-55.05	-13.00	42.05	-10.74	Vertical	PASS
249.4394	-50.52	-59.69	-13.00	46.69	-9.17	Vertical	PASS
360.1301	-49.82	-55.12	-13.00	42.12	-5.30	Vertical	PASS
452.3724	-59.93	-61.34	-13.00	48.34	-1.41	Vertical	PASS
760.1702	-63.42	-56.04	-13.00	43.04	7.38	Vertical	PASS

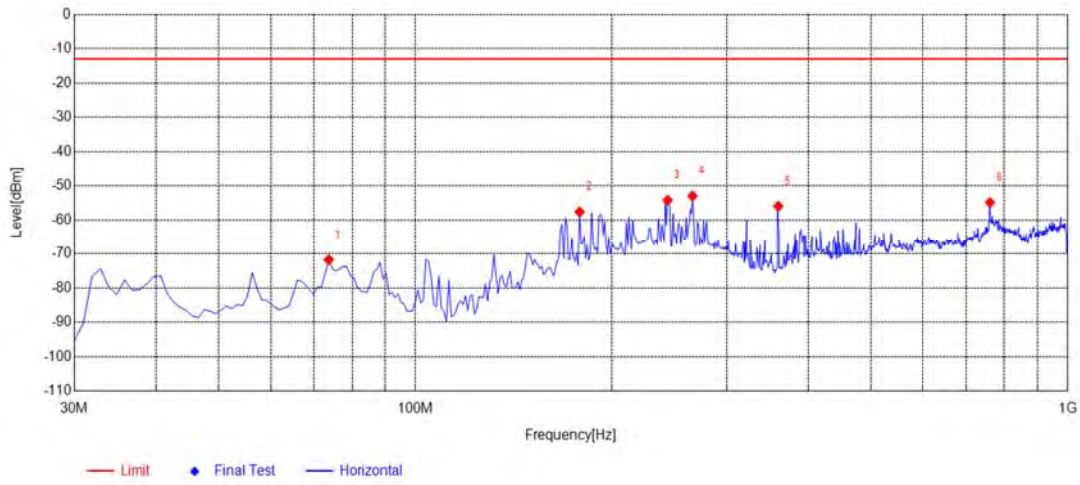


(Antenna Vertical, 1GHz to 18GHz)

Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity	Verdict
1920.5921	-27.51	-39.51	-13.00	26.51	-12.00	Vertical	NA
2972.1972	-37.70	-45.84	-13.00	32.84	-8.14	Vertical	PASS
5734.4734	-51.33	-48.96	-13.00	35.96	2.37	Vertical	PASS
7144.9145	-54.43	-45.56	-13.00	32.56	8.87	Vertical	PASS
9693.9694	-56.15	-42.14	-13.00	29.14	14.01	Vertical	PASS
14680.4680	-58.31	-37.87	-13.00	24.87	20.44	Vertical	PASS

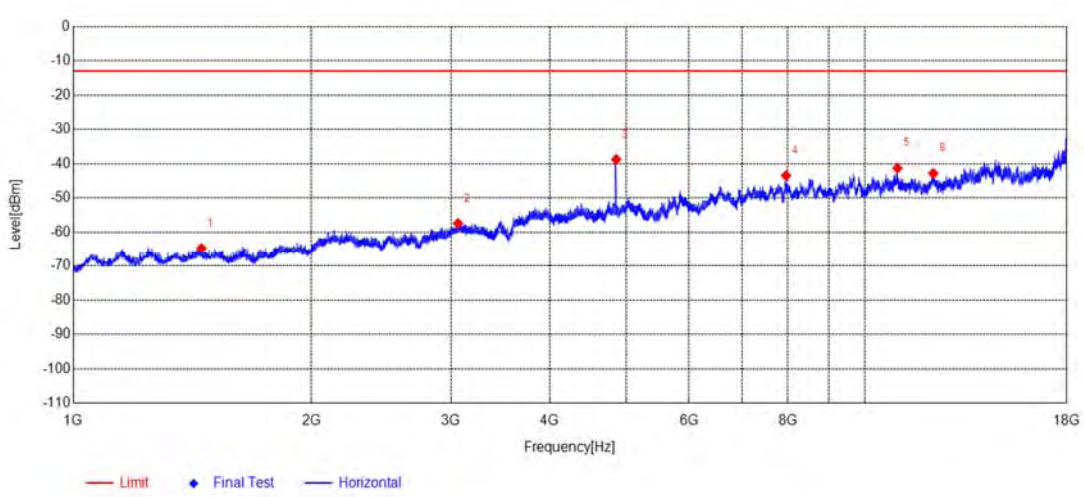
LTE Band 4

Plot for Low Channel



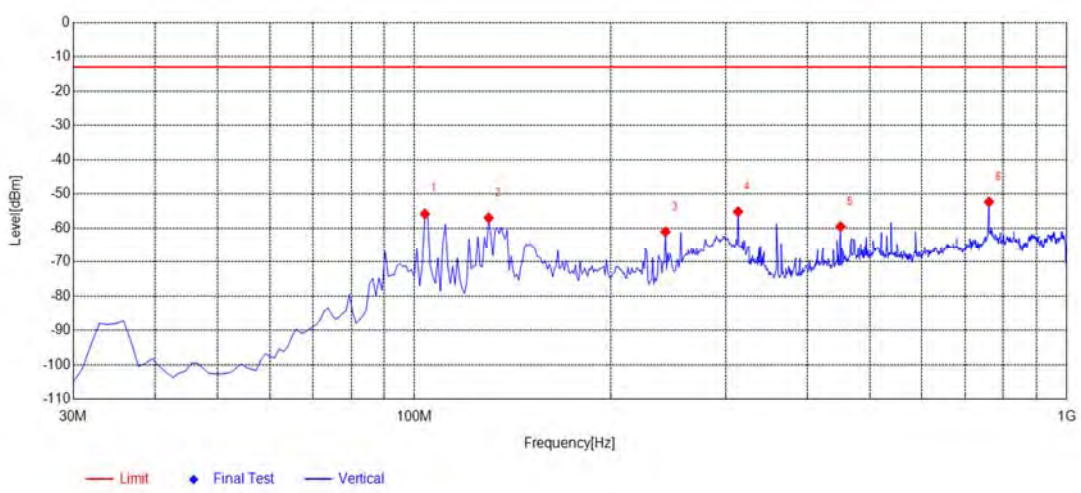
(Antenna Horizontal, 30MHz to 1GHz)

Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity	Verdict
73.6937	-45.94	-71.74	-13.00	58.74	-25.80	Horizontal	PASS
178.5586	-45.90	-57.59	-13.00	44.59	-11.69	Horizontal	PASS
243.6136	-50.12	-54.19	-13.00	41.19	-4.07	Horizontal	PASS
265.9459	-47.36	-52.95	-13.00	39.95	-5.59	Horizontal	PASS
360.1301	-50.05	-55.94	-13.00	42.94	-5.89	Horizontal	PASS
760.1702	-62.51	-54.84	-13.00	41.84	7.67	Horizontal	PASS



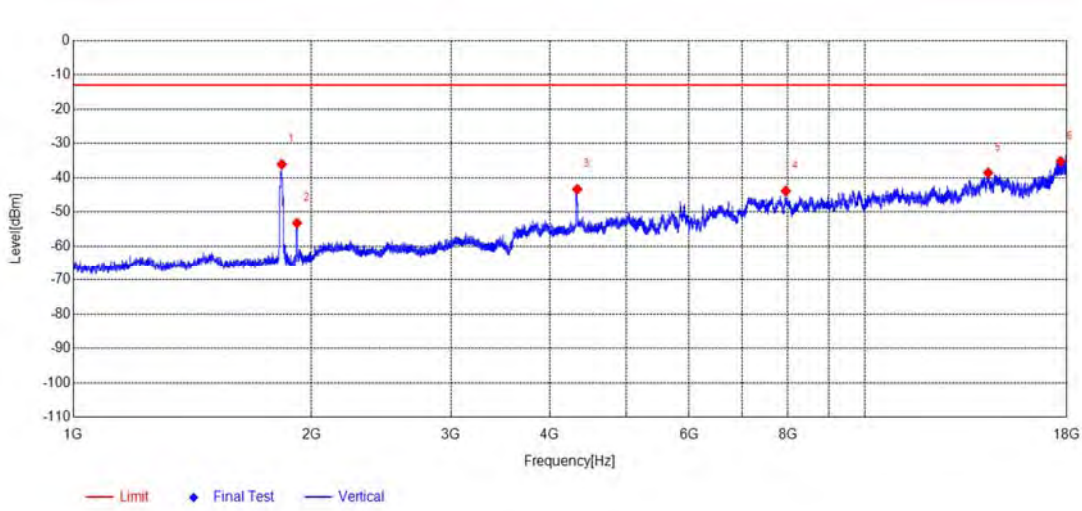
(Antenna Horizontal, 1GHz to 18GHz)

Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity	Verdict
1452.0452	-51.00	-64.76	-13.00	51.76	-13.76	Horizontal	NA
3064.2064	-50.85	-57.44	-13.00	44.44	-6.59	Horizontal	NA
4853.8854	-38.70	-38.76	-13.00	25.76	-0.06	Horizontal	PASS
7956.1956	-53.59	-43.48	-13.00	30.48	10.11	Horizontal	PASS
11003.3003	-56.51	-41.31	-13.00	28.31	15.20	Horizontal	PASS
12211.8212	-58.11	-42.84	-13.00	29.84	15.27	Horizontal	PASS



(Antenna Vertical, 30MHz to 1GHz)

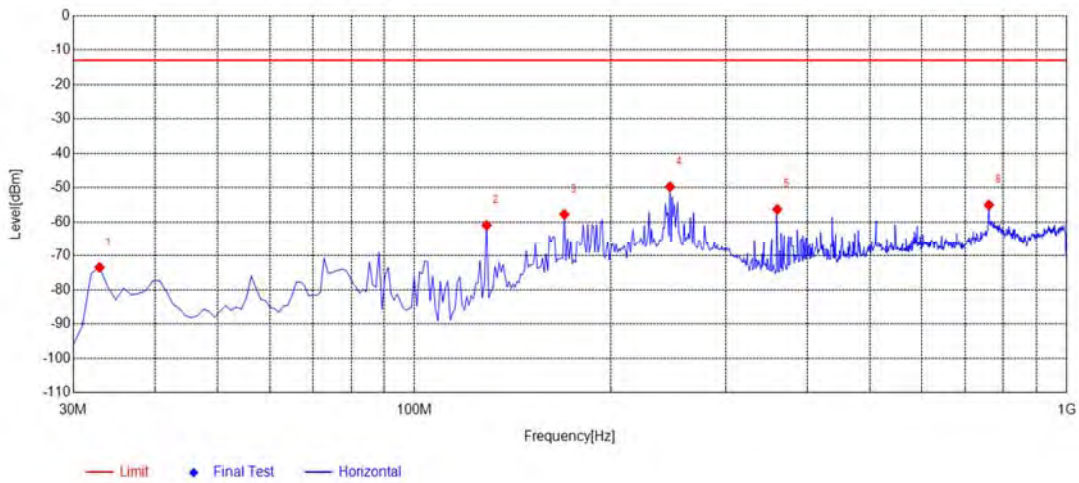
Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity	Verdict
103.7938	-42.13	-55.81	-13.00	42.81	-13.68	Vertical	PASS
130.0100	-44.16	-56.97	-13.00	43.97	-12.81	Vertical	PASS
242.6426	-52.20	-61.05	-13.00	48.05	-8.85	Vertical	PASS
313.5235	-50.99	-55.17	-13.00	42.17	-4.18	Vertical	PASS
450.4304	-57.69	-59.52	-13.00	46.52	-1.83	Vertical	PASS
760.1702	-59.67	-52.29	-13.00	39.29	7.38	Vertical	PASS



(Antenna Vertical, 1GHz to 18GHz)

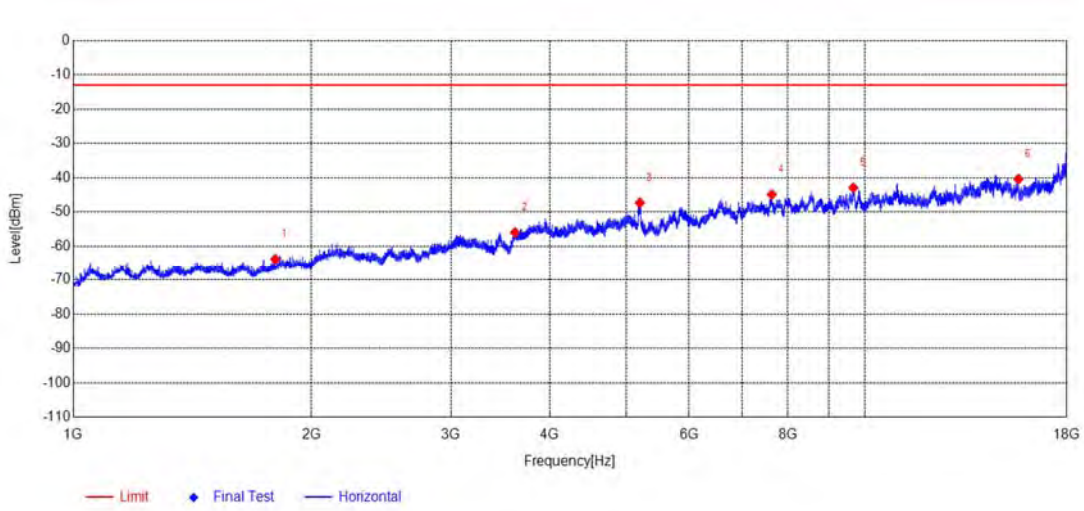
Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity	Verdict
1834.0834	-23.63	-36.10	-13.00	23.10	-12.47	Vertical	NA
1917.5918	-41.25	-53.22	-13.00	40.22	-11.97	Vertical	NA
4333.3333	-41.21	-43.36	-13.00	30.36	-2.15	Vertical	PASS
7948.9949	-53.97	-43.86	-13.00	30.86	10.11	Vertical	PASS
14325.2325	-58.53	-38.57	-13.00	25.57	19.96	Vertical	PASS
17692.7693	-58.65	-35.20	-13.00	22.20	23.45	Vertical	PASS

Plot for Mid Channel



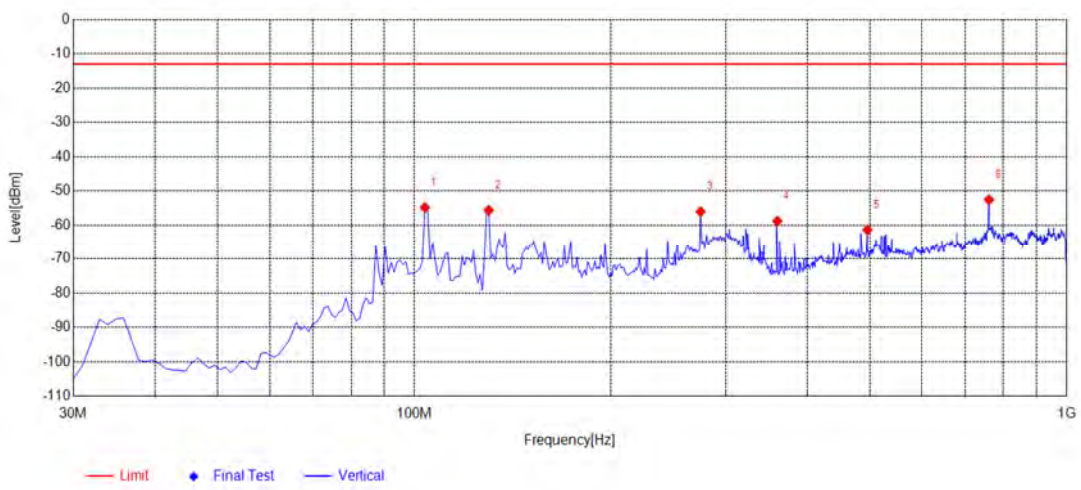
(Antenna Horizontal, 30MHz to 1GHz)

Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity	Verdict
32.9129	-42.30	-73.44	-13.00	60.44	-31.14	Horizontal	PASS
129.0390	-40.72	-60.93	-13.00	47.93	-20.21	Horizontal	PASS
169.8198	-45.68	-57.74	-13.00	44.74	-12.06	Horizontal	PASS
246.5265	-44.84	-49.71	-13.00	36.71	-4.87	Horizontal	PASS
360.1301	-50.40	-56.29	-13.00	43.29	-5.89	Horizontal	PASS
760.1702	-62.68	-55.01	-13.00	42.01	7.67	Horizontal	PASS



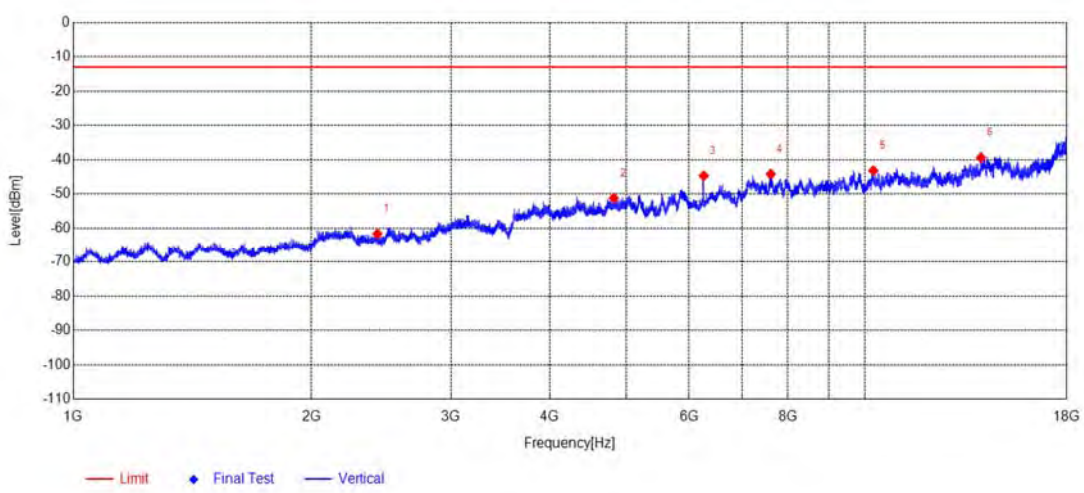
(Antenna Horizontal, 1GHz to 18GHz)

Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity	Verdict
1799.5800	-51.23	-63.80	-13.00	50.80	-12.57	Horizontal	PASS
3616.2616	-49.85	-55.96	-13.00	42.96	-6.11	Horizontal	PASS
5200.4200	-47.76	-47.33	-13.00	34.33	0.43	Horizontal	PASS
7633.3633	-54.04	-44.92	-13.00	31.92	9.12	Horizontal	PASS
9674.7675	-56.43	-42.94	-13.00	29.94	13.49	Horizontal	PASS
15644.1644	-58.08	-40.41	-13.00	27.41	17.67	Horizontal	PASS



(Antenna Vertical, 30MHz to 1GHz)

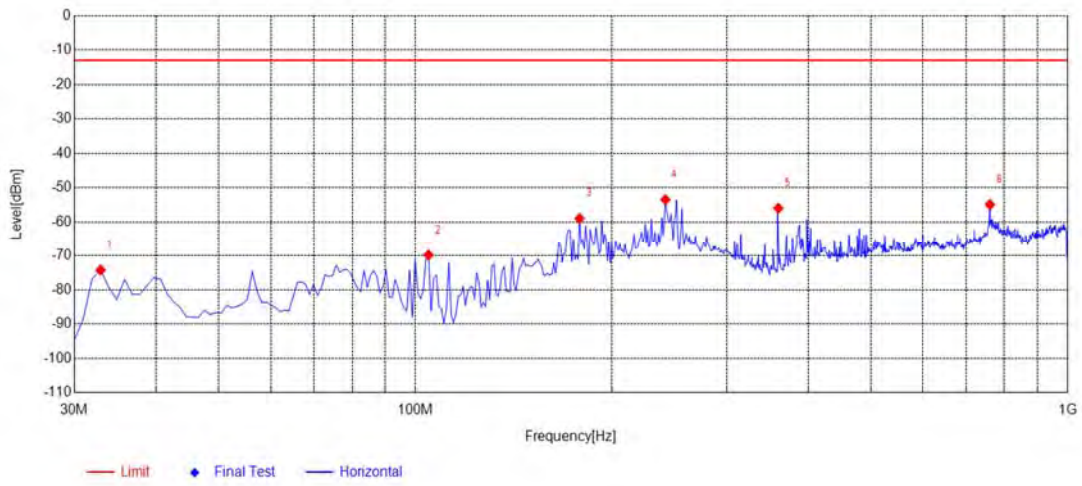
Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity	Verdict
103.7938	-41.15	-54.83	-13.00	41.83	-13.68	Vertical	PASS
130.0100	-42.83	-55.64	-13.00	42.64	-12.81	Vertical	PASS
274.6847	-49.03	-56.02	-13.00	43.02	-6.99	Vertical	PASS
360.1301	-53.48	-58.78	-13.00	45.78	-5.30	Vertical	PASS
495.0951	-61.76	-61.35	-13.00	48.35	0.41	Vertical	PASS
760.1702	-59.93	-52.55	-13.00	39.55	7.38	Vertical	PASS



(Antenna Vertical, 1GHz to 18GHz)

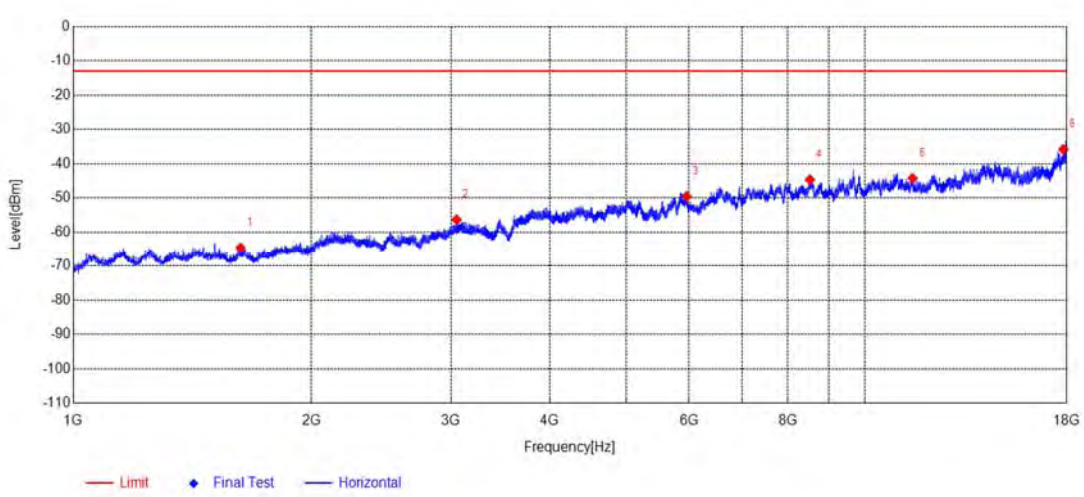
Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity	Verdict
2423.1423	-51.49	-61.65	-13.00	48.65	-10.16	Vertical	PASS
4819.3819	-51.41	-51.20	-13.00	38.20	0.21	Vertical	PASS
6261.6262	-47.72	-44.69	-13.00	31.69	3.03	Vertical	PASS
7609.3609	-53.65	-44.21	-13.00	31.21	9.44	Vertical	PASS
10254.4254	-57.59	-43.17	-13.00	30.17	14.42	Vertical	PASS
14028.8029	-57.72	-39.41	-13.00	26.41	18.31	Vertical	PASS

Plot for High Channel



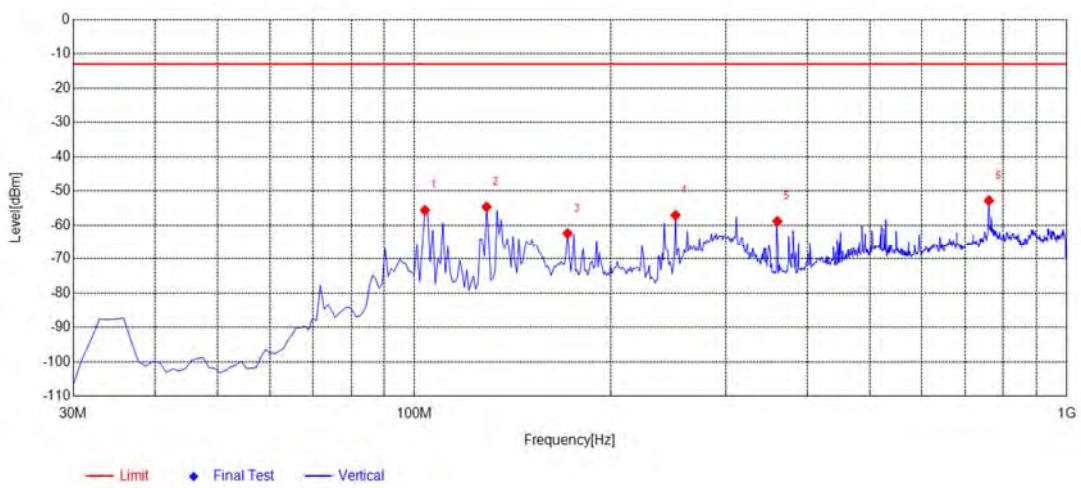
(Antenna Horizontal, 30MHz to 1GHz)

Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity	Verdict
32.9129	-43.07	-74.21	-13.00	61.21	-31.14	Horizontal	PASS
104.7648	-45.09	-69.79	-13.00	56.79	-24.70	Horizontal	PASS
178.5586	-47.26	-58.95	-13.00	45.95	-11.69	Horizontal	PASS
241.6717	-49.91	-53.47	-13.00	40.47	-3.56	Horizontal	PASS
360.1301	-50.07	-55.96	-13.00	42.96	-5.89	Horizontal	NA
760.1702	-62.59	-54.92	-13.00	41.92	7.67	Horizontal	NA



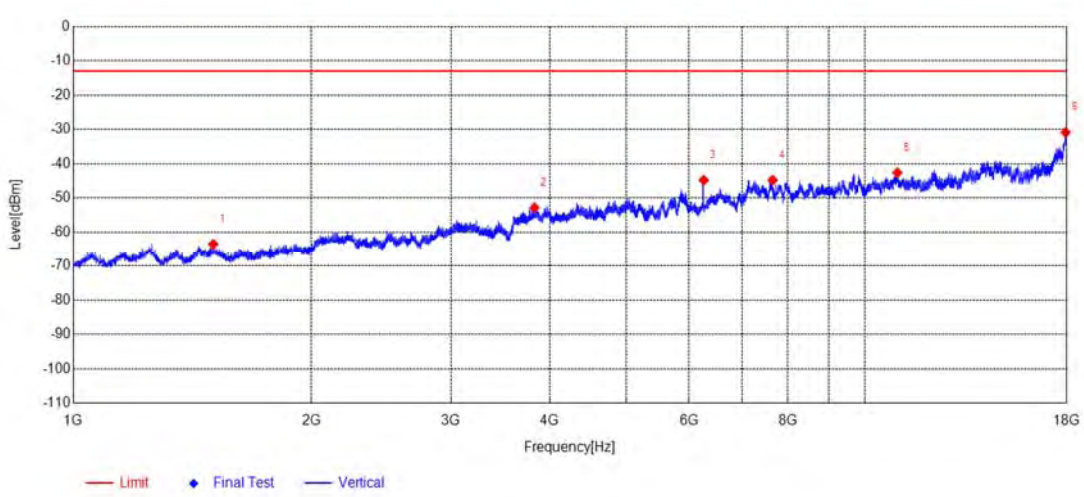
(Antenna Horizontal, 1GHz to 18GHz)

Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity	Verdict
1627.0627	-51.09	-64.64	-13.00	51.64	-13.55	Horizontal	PASS
3050.7051	-49.70	-56.32	-13.00	43.32	-6.62	Horizontal	NA
5957.9958	-52.93	-49.55	-13.00	36.55	3.38	Horizontal	PASS
8528.6529	-54.90	-44.64	-13.00	31.64	10.26	Horizontal	PASS
11500.1500	-58.51	-44.25	-13.00	31.25	14.26	Horizontal	PASS
17829.5830	-60.85	-35.84	-13.00	22.84	25.01	Horizontal	PASS



(Antenna Vertical, 30MHz to 1GHz)

Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity	Verdict
103.7938	-41.94	-55.62	-13.00	42.62	-13.68	Vertical	PASS
129.0390	-41.56	-54.63	-13.00	41.63	-13.07	Vertical	PASS
171.7618	-50.47	-62.38	-13.00	49.38	-11.91	Vertical	PASS
251.3814	-48.08	-57.10	-13.00	44.10	-9.02	Vertical	PASS
360.1301	-53.52	-58.82	-13.00	45.82	-5.30	Vertical	PASS
760.1702	-60.19	-52.81	-13.00	39.81	7.38	Vertical	PASS

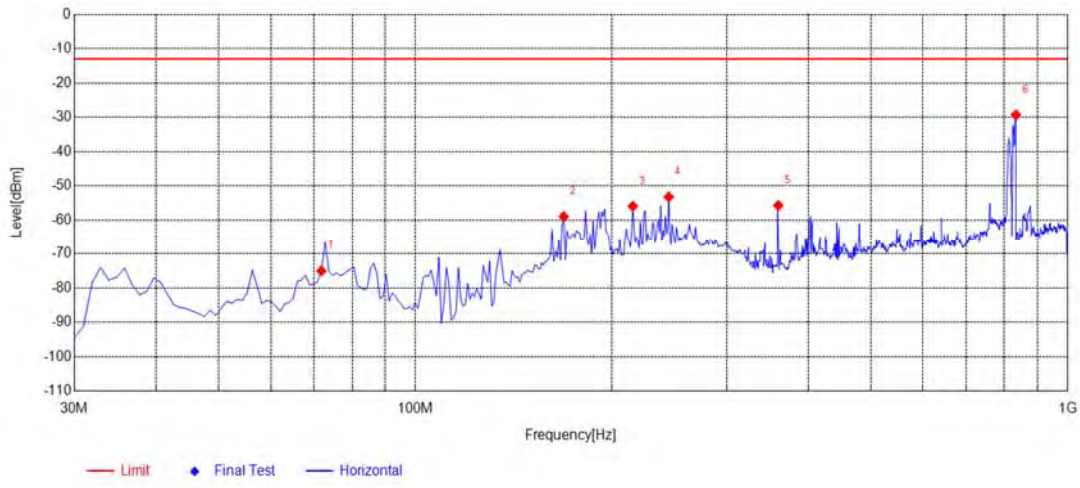


(Antenna Vertical, 1GHz to 18GHz)

Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity	Verdict
1502.5503	-51.35	-63.50	-13.00	50.50	-12.15	Vertical	NA
3826.2826	-48.91	-52.84	-13.00	39.84	-3.93	Vertical	PASS
6261.6262	-47.83	-44.80	-13.00	31.80	3.03	Vertical	PASS
7652.5653	-54.63	-44.78	-13.00	31.78	9.85	Vertical	PASS
10998.4999	-58.33	-42.64	-13.00	29.64	15.69	Vertical	PASS
17947.1947	-60.93	-30.88	-13.00	17.88	30.05	Vertical	PASS

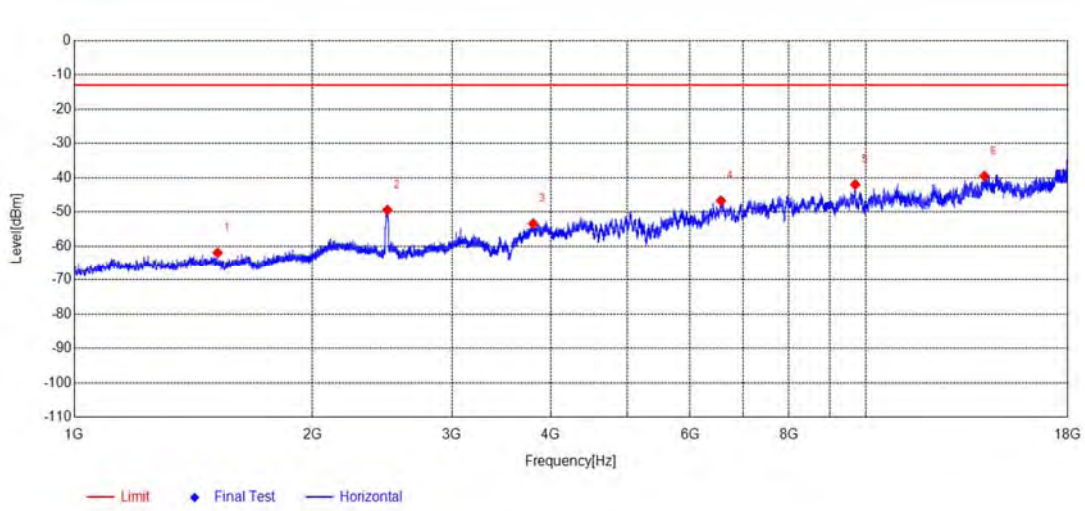
LTE Band 5

Plot for Low Channel



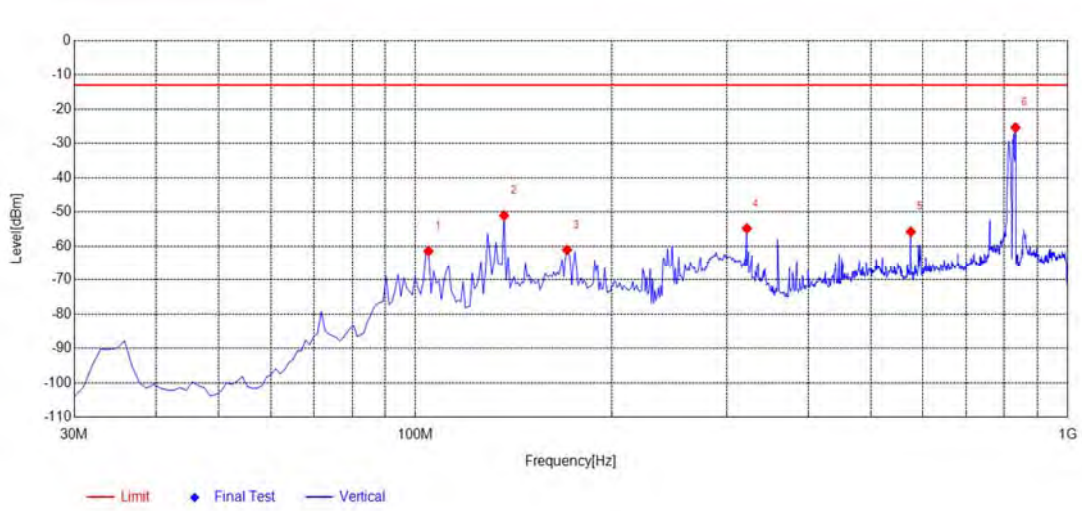
(Antenna Horizontal, 30MHz to 1GHz)

Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity	Verdict
71.7518	-47.03	-75.04	-13.00	62.04	-28.01	Horizontal	PASS
168.8488	-46.59	-58.93	-13.00	45.93	-12.34	Horizontal	PASS
215.4555	-50.01	-55.94	-13.00	42.94	-5.93	Horizontal	PASS
244.5846	-48.89	-53.22	-13.00	40.22	-4.33	Horizontal	PASS
360.1301	-49.82	-55.71	-13.00	42.71	-5.89	Horizontal	PASS
832.9930	-33.76	-29.28	-13.00	16.28	4.48	Horizontal	NA



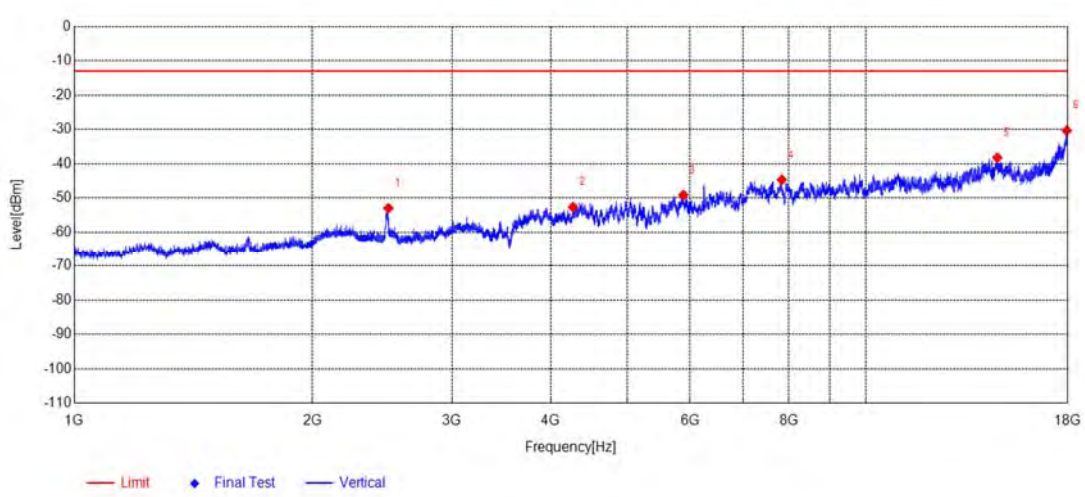
(Antenna Horizontal, 1GHz to 18GHz)

Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity	Verdict
1517.5518	-48.27	-61.90	-13.00	48.90	-13.63	Horizontal	PASS
2487.1487	-40.00	-49.43	-13.00	36.43	-9.43	Horizontal	PASS
3800.7801	-49.46	-53.42	-13.00	40.42	-3.96	Horizontal	PASS
6564.0564	-52.99	-46.74	-13.00	33.74	6.25	Horizontal	PASS
9703.5704	-56.71	-42.04	-13.00	29.04	14.67	Horizontal	PASS
14127.2127	-57.66	-39.53	-13.00	26.53	18.13	Horizontal	PASS



(Antenna Vertical, 30MHz to 1GHz)

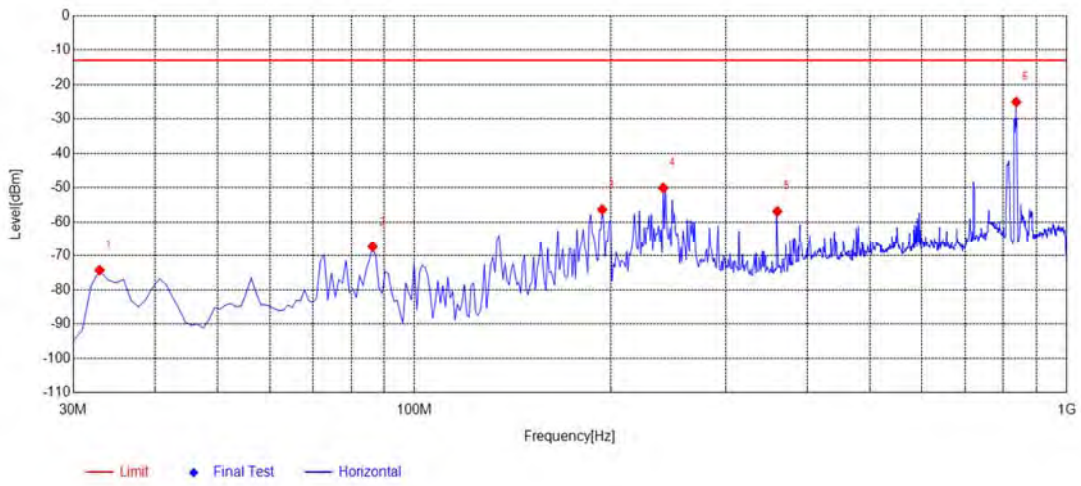
Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity	Verdict
104.7648	-47.59	-61.42	-13.00	48.42	-13.83	Vertical	PASS
136.8068	-42.79	-51.04	-13.00	38.04	-8.25	Vertical	PASS
170.7908	-50.01	-61.06	-13.00	48.06	-11.05	Vertical	PASS
322.2623	-50.44	-54.81	-13.00	41.81	-4.37	Vertical	PASS
574.7147	-55.98	-55.77	-13.00	42.77	0.21	Vertical	PASS
832.0220	-30.65	-25.40	-13.00	12.40	5.25	Vertical	NA



(Antenna Vertical, 1GHz to 18GHz)

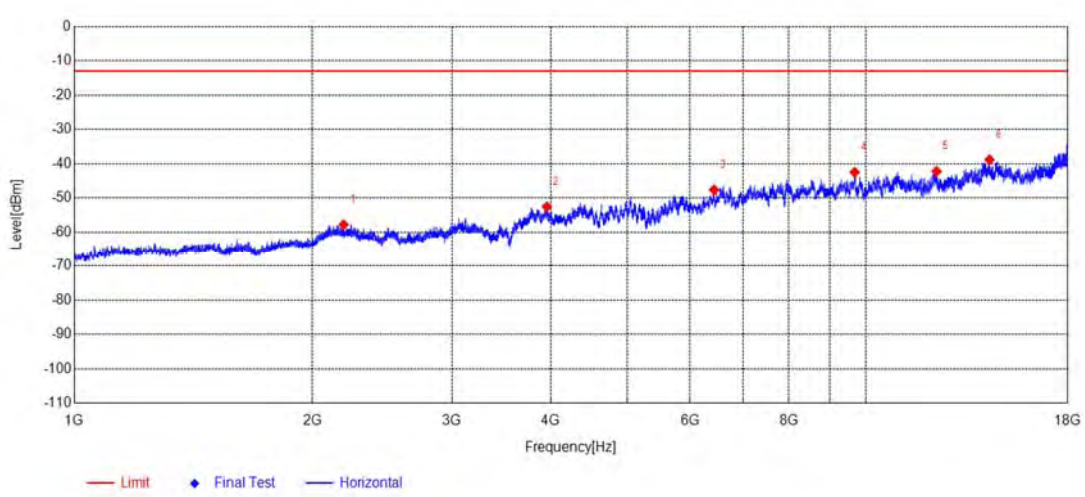
Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity	Verdict
2493.6494	-44.22	-53.00	-13.00	40.00	-8.78	Vertical	PASS
4268.3268	-49.59	-52.67	-13.00	39.67	-3.08	Vertical	PASS
5884.4884	-52.88	-49.14	-13.00	36.14	3.74	Vertical	PASS
7836.1836	-53.71	-44.70	-13.00	31.70	9.01	Vertical	PASS
14670.8671	-58.96	-38.28	-13.00	25.28	20.68	Vertical	PASS
17954.3954	-60.34	-30.35	-13.00	17.35	29.99	Vertical	PASS

Plot for Mid Channel



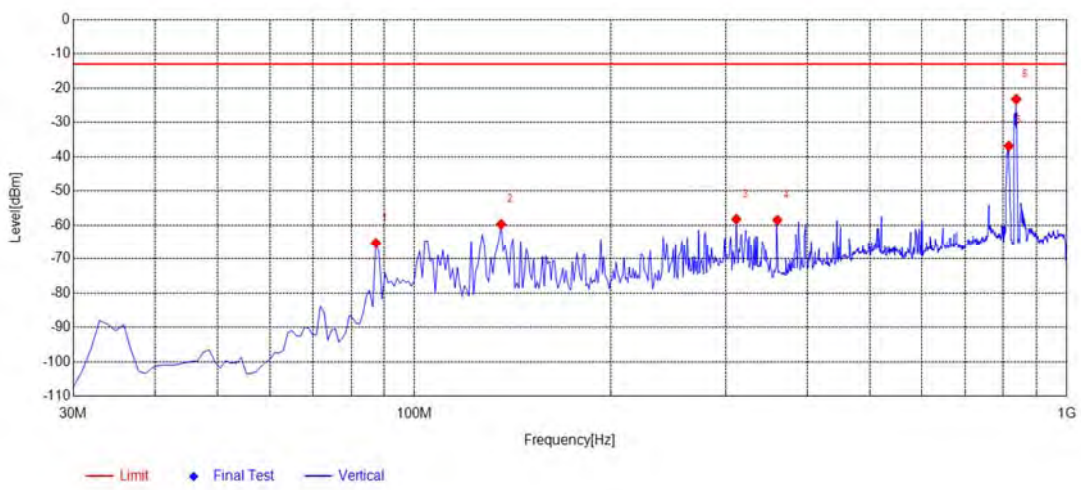
(Antenna Horizontal, 30MHz to 1GHz)

Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity	Verdict
32.9129	-43.12	-74.26	-13.00	61.26	-31.14	Horizontal	PASS
86.3163	-44.51	-67.37	-13.00	54.37	-22.86	Horizontal	PASS
194.0941	-48.91	-56.37	-13.00	43.37	-7.46	Horizontal	PASS
240.7007	-46.74	-50.04	-13.00	37.04	-3.30	Horizontal	PASS
360.1301	-50.98	-56.87	-13.00	43.87	-5.89	Horizontal	PASS
836.8769	-29.41	-25.11	-13.00	12.11	4.30	Horizontal	NA



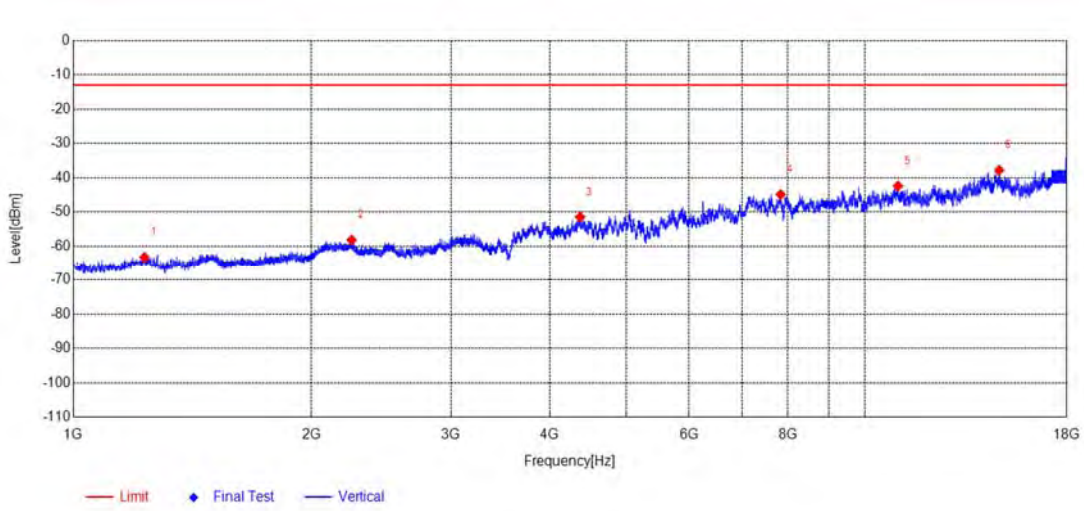
(Antenna Horizontal, 1GHz to 18GHz)

Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity	Verdict
2190.1190	-48.93	-57.78	-13.00	44.78	-8.85	Horizontal	PASS
3955.2955	-49.48	-52.53	-13.00	39.53	-3.05	Horizontal	PASS
6436.8437	-52.00	-47.64	-13.00	34.64	4.36	Horizontal	PASS
9686.7687	-56.69	-42.50	-13.00	29.50	14.19	Horizontal	PASS
12293.4293	-57.40	-42.23	-13.00	29.23	15.17	Horizontal	PASS
14342.0342	-58.24	-38.87	-13.00	25.87	19.37	Horizontal	PASS



(Antenna Vertical, 30MHz to 1GHz)

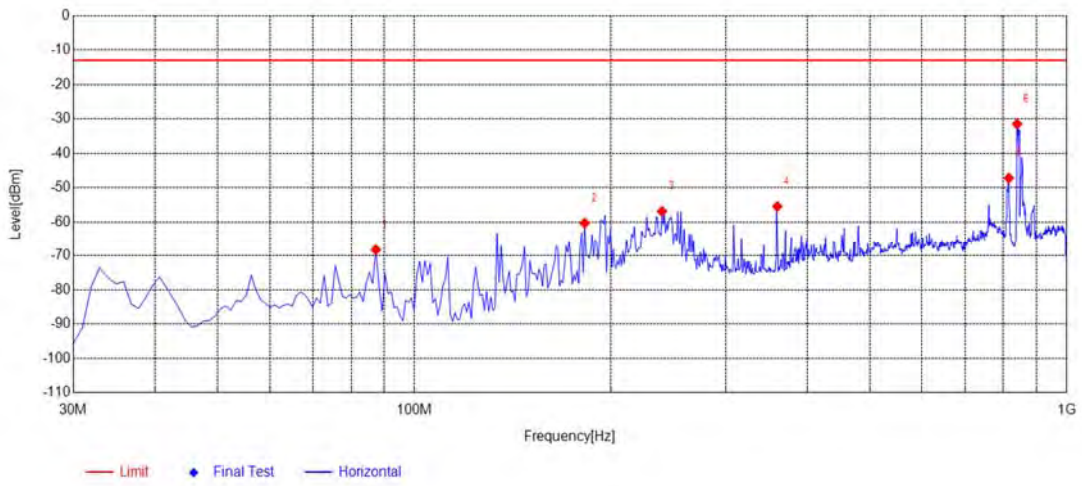
Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity	Verdict
87.2873	-47.18	-65.29	-13.00	52.29	-18.11	Vertical	PASS
135.8358	-51.85	-59.69	-13.00	46.69	-7.84	Vertical	PASS
311.5816	-53.49	-58.23	-13.00	45.23	-4.74	Vertical	PASS
360.1301	-53.17	-58.47	-13.00	45.47	-5.30	Vertical	PASS
815.5155	-42.18	-36.88	-13.00	23.88	5.30	Vertical	NA
836.8769	-27.75	-23.24	-13.00	10.24	4.51	Vertical	NA



(Antenna Vertical, 1GHz to 18GHz)

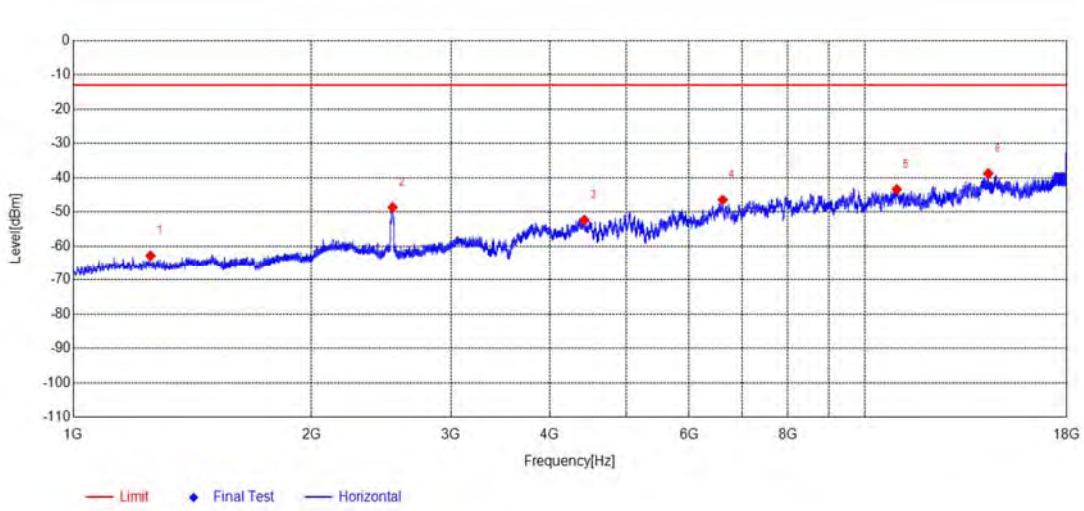
Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity	Verdict
1230.0230	-49.77	-63.27	-13.00	50.27	-13.50	Vertical	PASS
2247.6248	-49.80	-58.17	-13.00	45.17	-8.37	Vertical	PASS
4369.3369	-49.79	-51.46	-13.00	38.46	-1.67	Vertical	PASS
7832.5833	-53.95	-44.91	-13.00	31.91	9.04	Vertical	PASS
11017.7018	-57.54	-42.42	-13.00	29.42	15.12	Vertical	PASS
14790.8791	-56.93	-37.82	-13.00	24.82	19.11	Vertical	PASS

Plot for High Channel



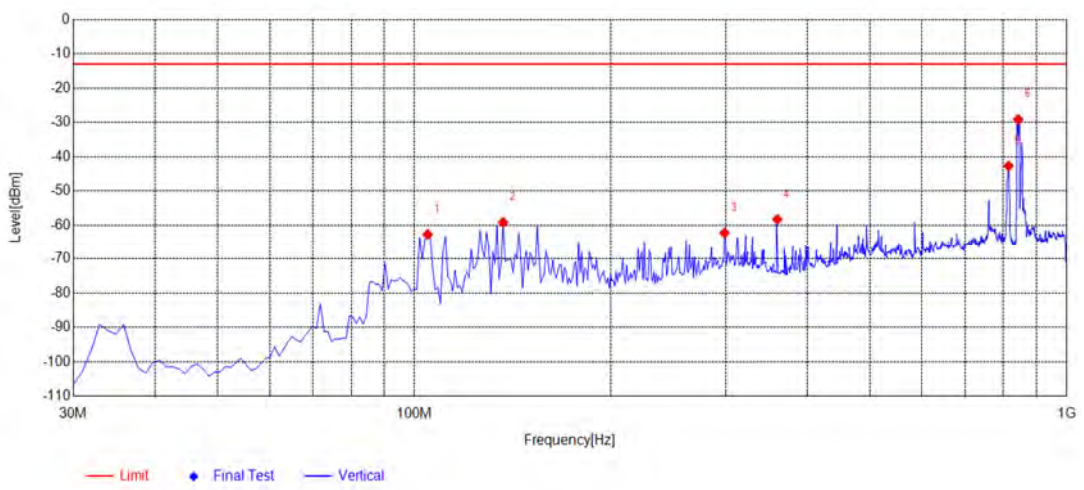
(Antenna Horizontal, 30MHz to 1GHz)

Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity	Verdict
87.2873	-45.52	-68.27	-13.00	55.27	-22.75	Horizontal	PASS
182.4424	-49.78	-60.27	-13.00	47.27	-10.49	Horizontal	PASS
239.7297	-53.72	-56.86	-13.00	43.86	-3.14	Horizontal	PASS
360.1301	-49.57	-55.46	-13.00	42.46	-5.89	Horizontal	PASS
815.5155	-52.48	-47.18	-13.00	34.18	5.30	Horizontal	NA
839.7898	-36.13	-31.49	-13.00	18.49	4.64	Horizontal	NA



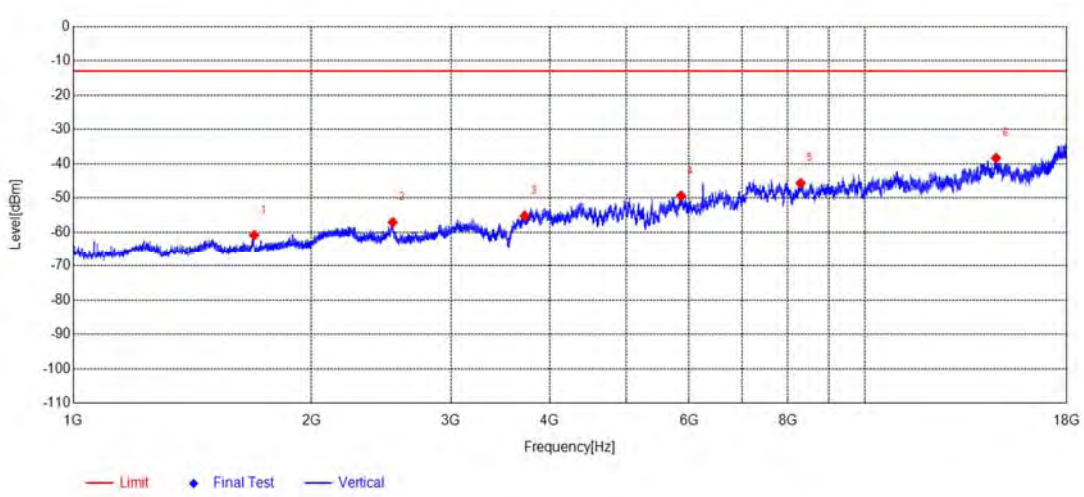
(Antenna Horizontal, 1GHz to 18GHz)

Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity	Verdict
1252.0252	-48.56	-62.79	-13.00	49.79	-14.23	Horizontal	PASS
2532.6533	-39.63	-48.67	-13.00	35.67	-9.04	Horizontal	PASS
4423.3423	-49.90	-52.37	-13.00	39.37	-2.47	Horizontal	PASS
6616.8617	-53.26	-46.48	-13.00	33.48	6.78	Horizontal	PASS
10979.2979	-58.46	-43.45	-13.00	30.45	15.01	Horizontal	PASS
14326.4326	-58.21	-38.79	-13.00	25.79	19.42	Horizontal	PASS



(Antenna Vertical, 30MHz to 1GHz)

Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity	Verdict
104.7648	-48.84	-62.67	-13.00	49.67	-13.83	Vertical	PASS
136.8068	-50.91	-59.16	-13.00	46.16	-8.25	Vertical	PASS
298.9590	-56.36	-62.26	-13.00	49.26	-5.90	Vertical	PASS
360.1301	-52.97	-58.27	-13.00	45.27	-5.30	Vertical	PASS
814.5445	-48.01	-42.68	-13.00	29.68	5.33	Vertical	NA
842.7027	-33.36	-29.11	-13.00	16.11	4.25	Vertical	NA

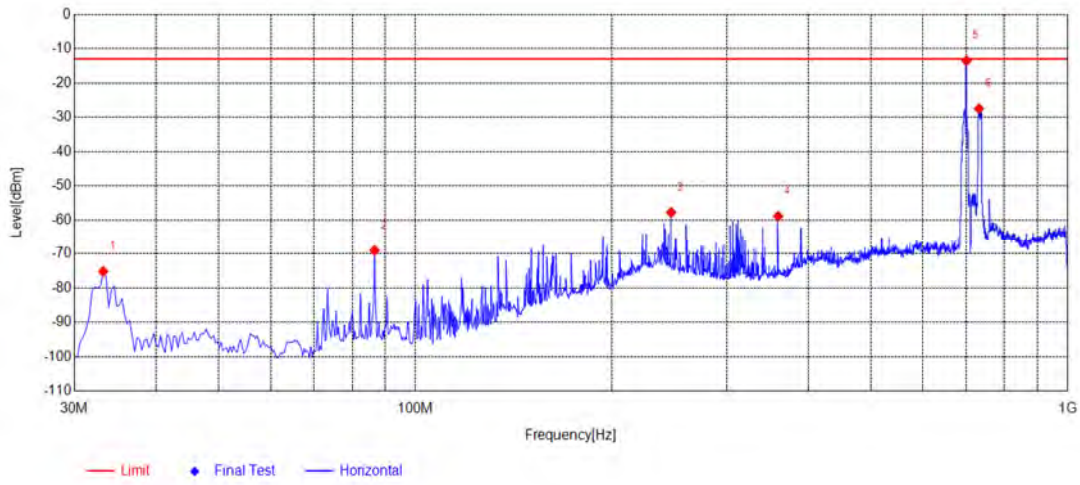


(Antenna Vertical, 1GHz to 18GHz)

Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity	Verdict
1692.5693	-46.92	-60.85	-13.00	47.85	-13.93	Vertical	PASS
2533.1533	-48.21	-57.11	-13.00	44.11	-8.90	Vertical	PASS
3719.2719	-49.45	-55.22	-13.00	42.22	-5.77	Vertical	PASS
5862.4862	-53.02	-49.40	-13.00	36.40	3.62	Vertical	PASS
8301.8302	-56.10	-45.71	-13.00	32.71	10.39	Vertical	PASS
14660.0660	-59.33	-38.37	-13.00	25.37	20.96	Vertical	PASS

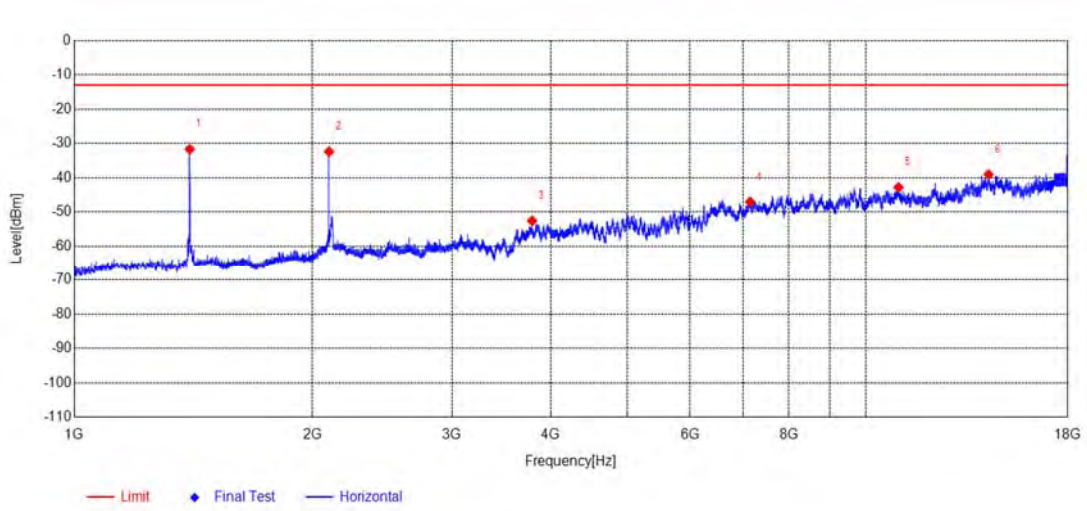
LTE Band 12

Plot for Low Channel



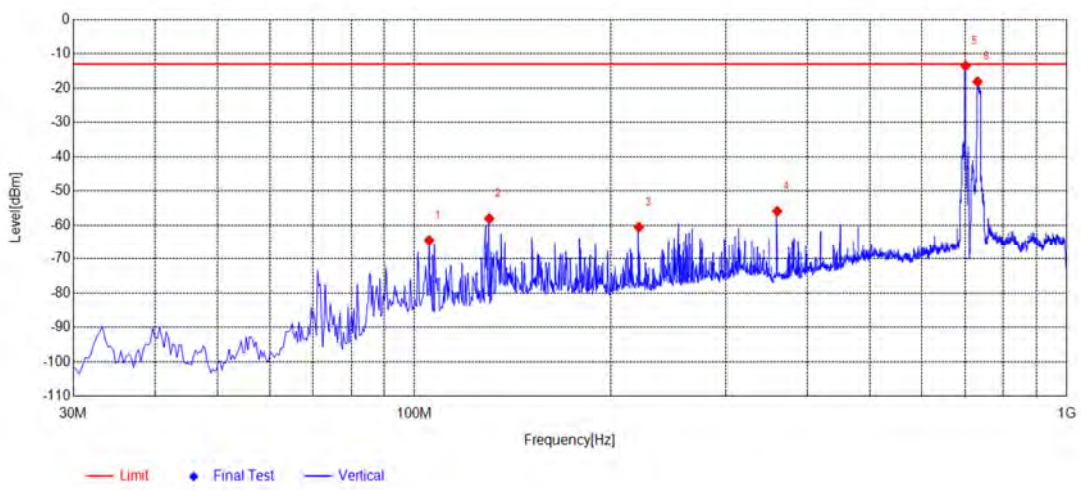
(Antenna Horizontal, 30MHz to 1GHz)

Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity	Verdict
33.2344	-43.27	-75.13	-13.00	62.13	-31.86	Horizontal	PASS
86.6022	-46.26	-69.02	-13.00	56.02	-22.76	Horizontal	PASS
246.7056	-52.82	-57.74	-13.00	44.74	-4.92	Horizontal	PASS
359.9100	-52.91	-58.82	-13.00	45.82	-5.91	Horizontal	PASS
699.8466	-15.15	-13.53	-13.00	0.53	1.62	Horizontal	NA
731.2204	-30.92	-27.50	-13.00	14.50	3.42	Horizontal	NA



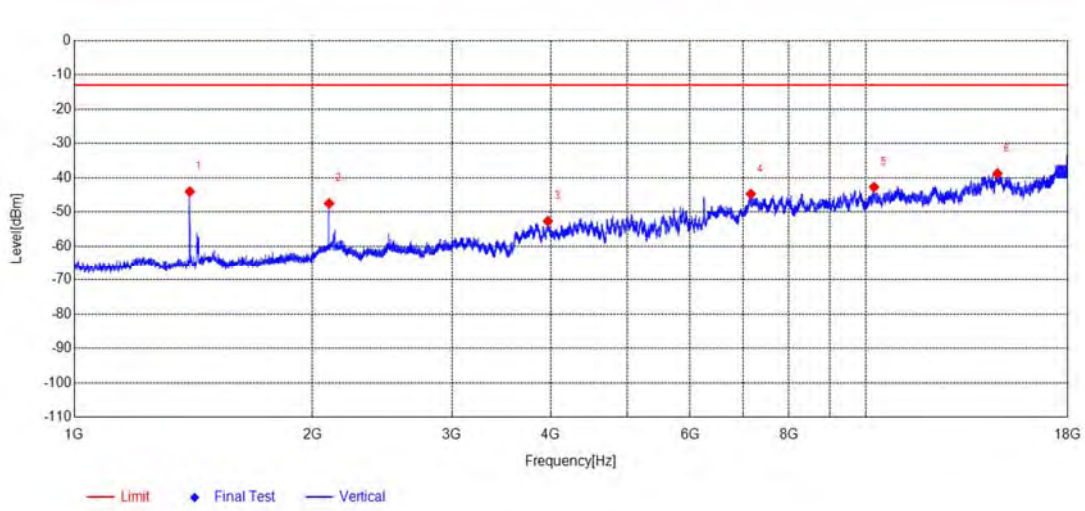
(Antenna Horizontal, 1GHz to 18GHz)

Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity	Verdict
1399.5400	-18.15	-31.69	-13.00	18.69	-13.54	Horizontal	PASS
2099.1099	-23.60	-32.41	-13.00	19.41	-8.81	Horizontal	PASS
3789.7790	-48.27	-52.60	-13.00	39.60	-4.33	Horizontal	PASS
7144.9145	-54.86	-47.03	-13.00	34.03	7.83	Horizontal	PASS
11008.1008	-57.89	-42.84	-13.00	29.84	15.05	Horizontal	PASS
14301.2301	-58.58	-39.07	-13.00	26.07	19.51	Horizontal	PASS



(Antenna Vertical, 30MHz to 1GHz)

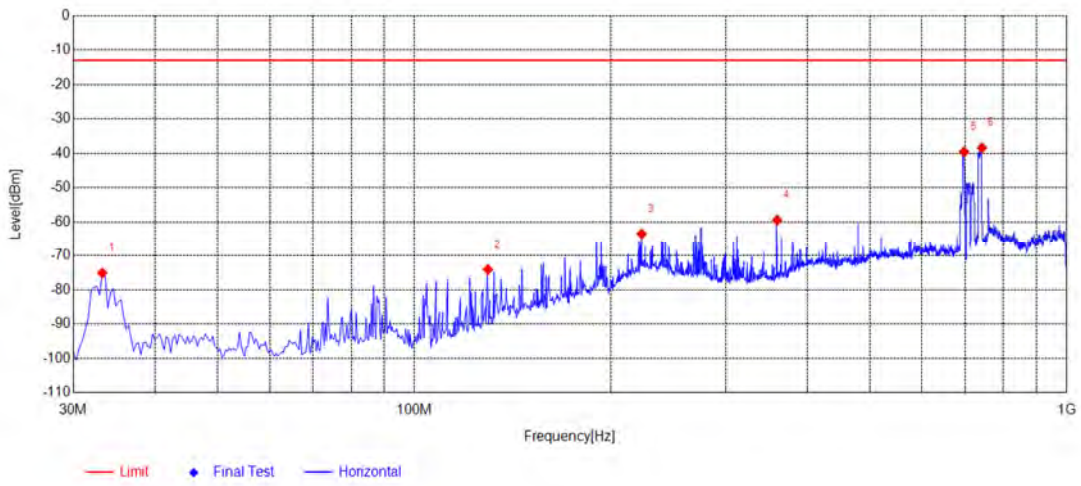
Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity	Verdict
105.3618	-50.41	-64.43	-13.00	51.43	-14.02	Vertical	PASS
130.2668	-45.31	-58.04	-13.00	45.04	-12.73	Vertical	PASS
220.8303	-51.23	-60.54	-13.00	47.54	-9.31	Vertical	PASS
359.9100	-50.61	-55.92	-13.00	42.92	-5.31	Vertical	PASS
699.8466	-15.86	-13.54	-13.00	0.54	2.32	Vertical	NA
730.2501	-21.54	-18.16	-13.00	5.16	3.38	Vertical	NA



(Antenna Vertical, 1GHz to 18GHz)

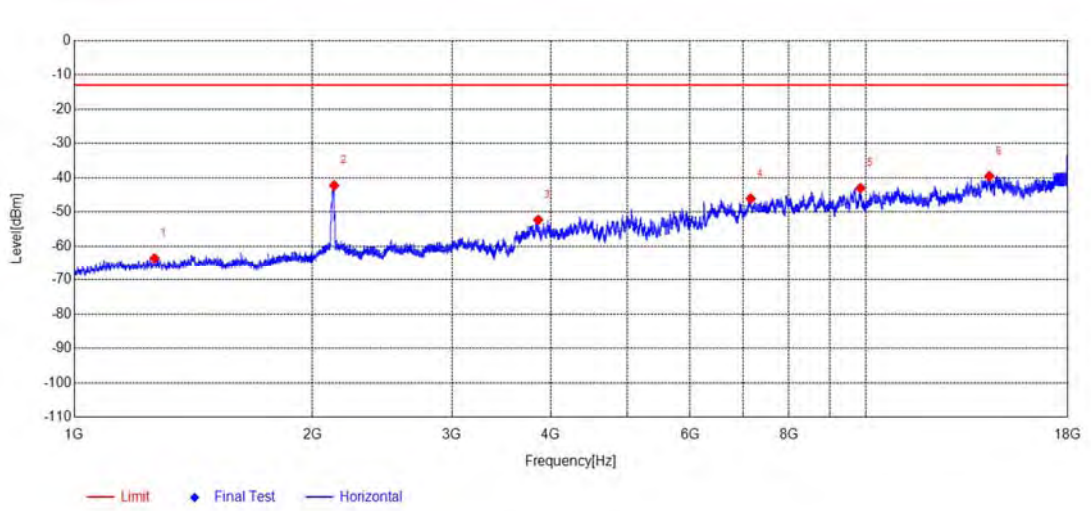
Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity	Verdict
1399.5400	-29.50	-44.06	-13.00	31.06	-14.56	Vertical	PASS
2099.1099	-38.63	-47.51	-13.00	34.51	-8.88	Vertical	PASS
3967.7968	-49.58	-52.65	-13.00	39.65	-3.07	Vertical	PASS
7160.5161	-53.66	-44.72	-13.00	31.72	8.94	Vertical	PASS
10248.4248	-57.21	-42.74	-13.00	29.74	14.47	Vertical	PASS
14674.4674	-59.38	-38.79	-13.00	25.79	20.59	Vertical	PASS

Plot for Mid Channel



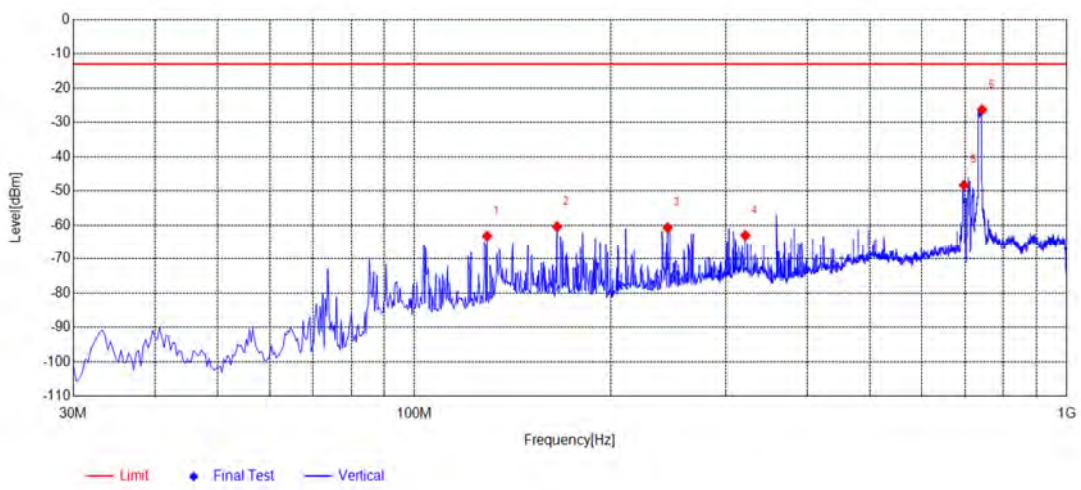
(Antenna Horizontal, 30MHz to 1GHz)

Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity	Verdict
33.2344	-43.21	-75.07	-13.00	62.07	-31.86	Horizontal	PASS
129.6199	-53.93	-74.07	-13.00	61.07	-20.14	Horizontal	PASS
223.0944	-59.62	-63.44	-13.00	50.44	-3.82	Horizontal	PASS
359.9100	-53.47	-59.38	-13.00	46.38	-5.91	Horizontal	PASS
696.2888	-40.92	-39.54	-13.00	26.54	1.38	Horizontal	NA
741.5705	-42.55	-38.42	-13.00	25.42	4.13	Horizontal	NA



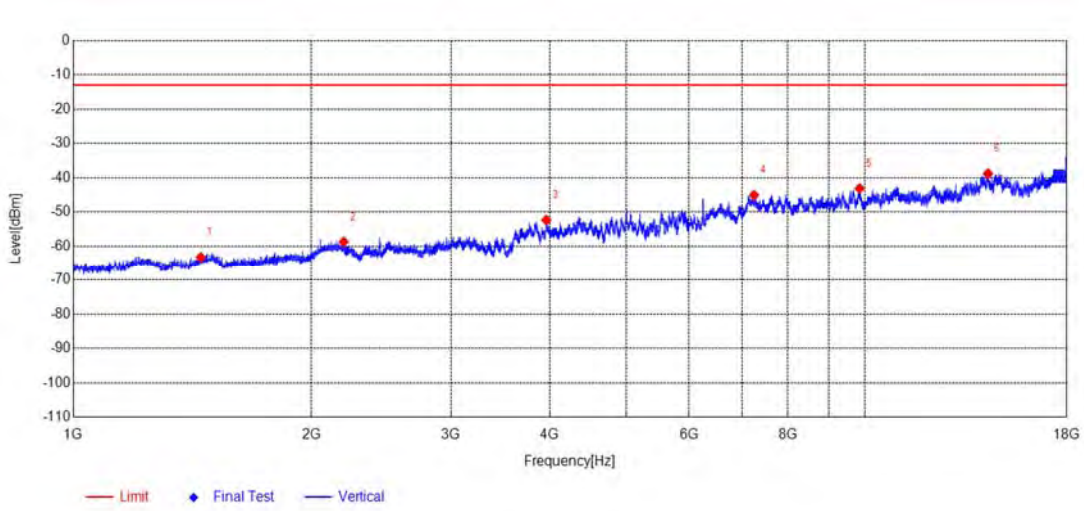
(Antenna Horizontal, 1GHz to 18GHz)

Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity	Verdict
1263.0263	-49.19	-63.53	-13.00	50.53	-14.34	Horizontal	PASS
2130.1130	-33.67	-42.28	-13.00	29.28	-8.61	Horizontal	PASS
3855.7856	-48.31	-52.32	-13.00	39.32	-4.01	Horizontal	PASS
7156.9157	-53.84	-46.10	-13.00	33.10	7.74	Horizontal	PASS
9848.7849	-58.59	-43.06	-13.00	30.06	15.53	Horizontal	PASS
14338.4338	-58.92	-39.54	-13.00	26.54	19.38	Horizontal	PASS



(Antenna Vertical, 30MHz to 1GHz)

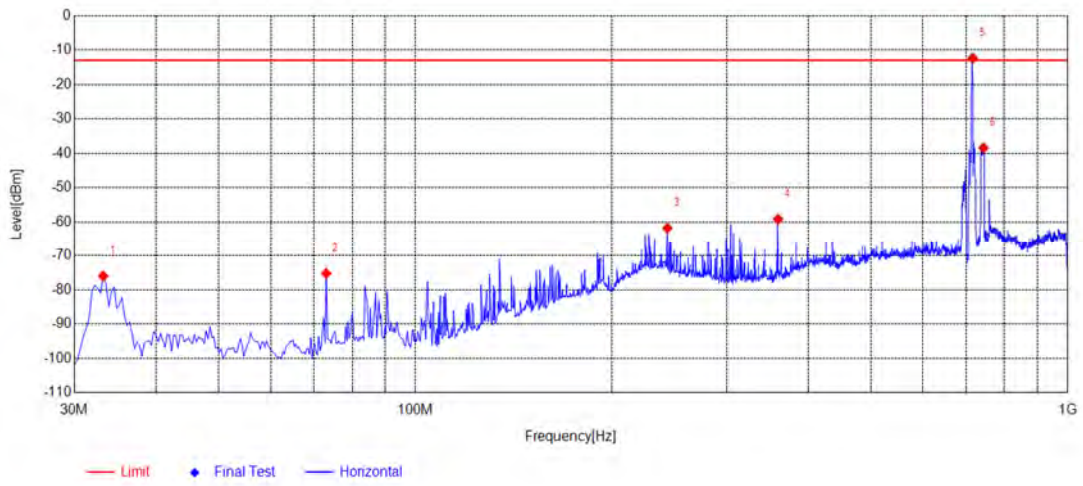
Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity	Verdict
129.2964	-50.19	-63.19	-13.00	50.19	-13.00	Vertical	PASS
165.5218	-49.48	-60.42	-13.00	47.42	-10.94	Vertical	PASS
244.4415	-52.02	-60.70	-13.00	47.70	-8.68	Vertical	PASS
321.7439	-58.62	-62.99	-13.00	49.99	-4.37	Vertical	PASS
696.2888	-50.27	-48.29	-13.00	35.29	1.98	Vertical	NA
741.8940	-29.97	-26.29	-13.00	13.29	3.68	Vertical	NA



(Antenna Vertical, 1GHz to 18GHz)

Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity	Verdict
1449.0449	-50.01	-63.23	-13.00	50.23	-13.22	Vertical	PASS
2196.6197	-49.74	-58.71	-13.00	45.71	-8.97	Vertical	PASS
3960.2960	-49.40	-52.33	-13.00	39.33	-2.93	Vertical	PASS
7248.1248	-53.85	-45.10	-13.00	32.10	8.75	Vertical	PASS
9854.7855	-58.59	-43.14	-13.00	30.14	15.45	Vertical	PASS
14316.8317	-58.77	-38.79	-13.00	25.79	19.98	Vertical	PASS

Plot for High Channel



(Antenna Horizontal, 30MHz to 1GHz)

Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity	Verdict
33.2344	-44.11	-75.97	-13.00	62.97	-31.86	Horizontal	PASS
73.0177	-49.34	-75.17	-13.00	62.17	-25.83	Horizontal	PASS
243.4712	-57.70	-61.74	-13.00	48.74	-4.04	Horizontal	PASS
359.9100	-53.20	-59.11	-13.00	46.11	-5.91	Horizontal	PASS
715.3718	-15.31	-12.36	-13.00	-0.64	2.95	Horizontal	NA
742.8643	-42.62	-38.42	-13.00	25.42	4.20	Horizontal	NA