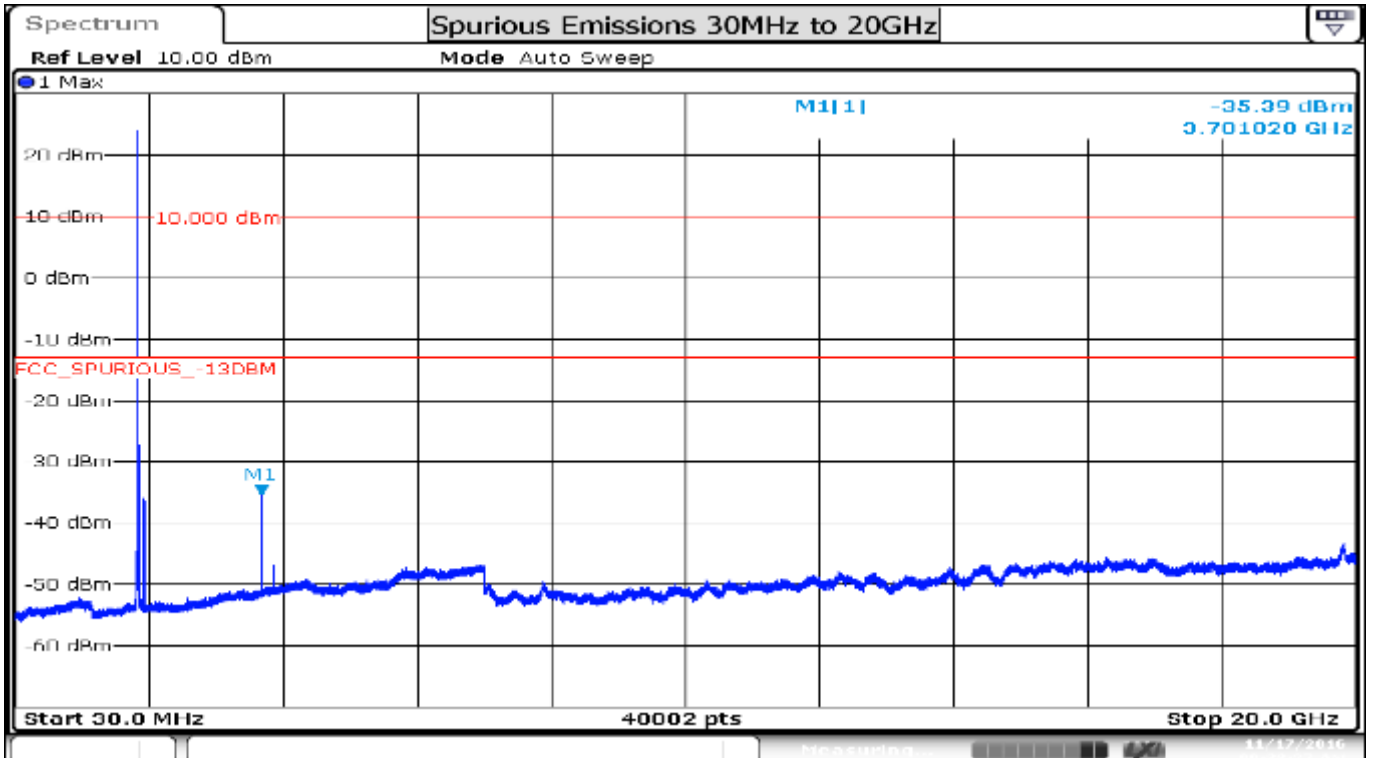
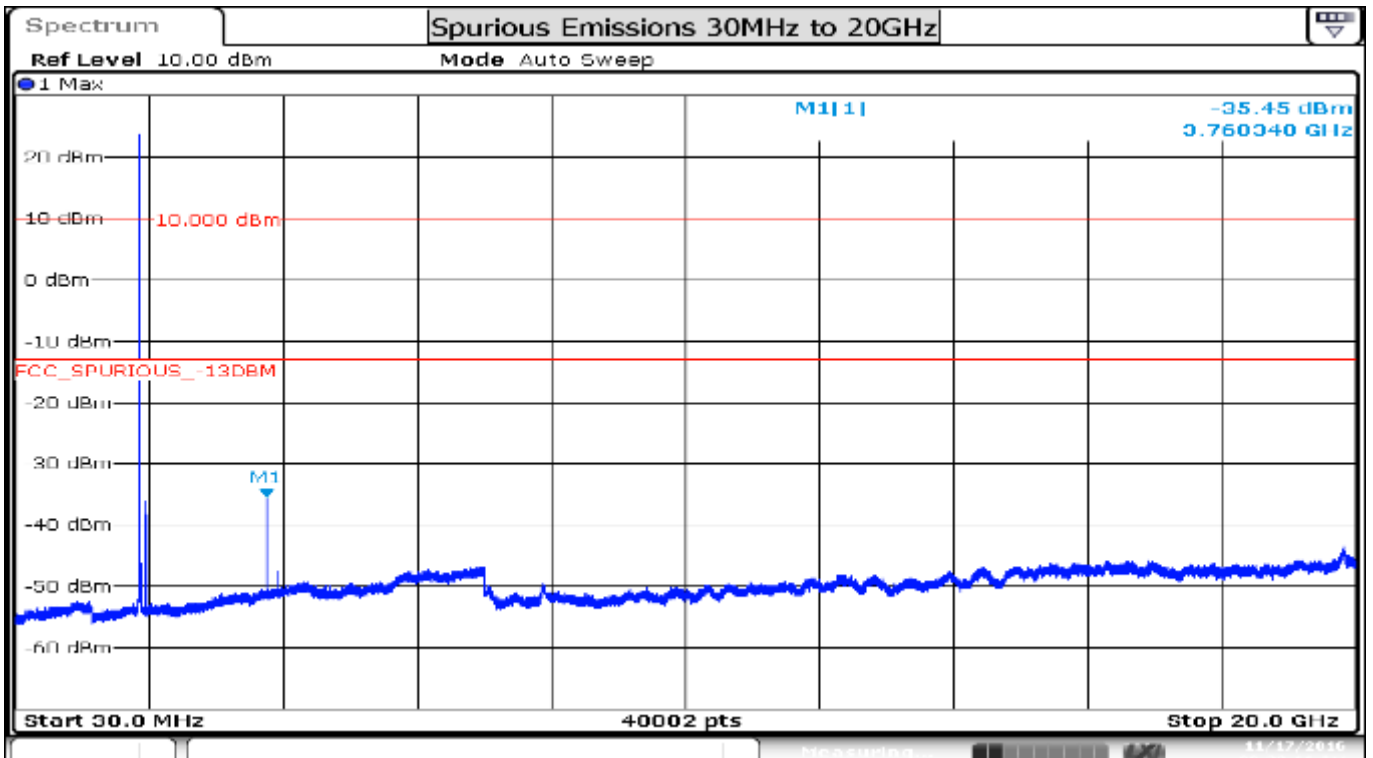


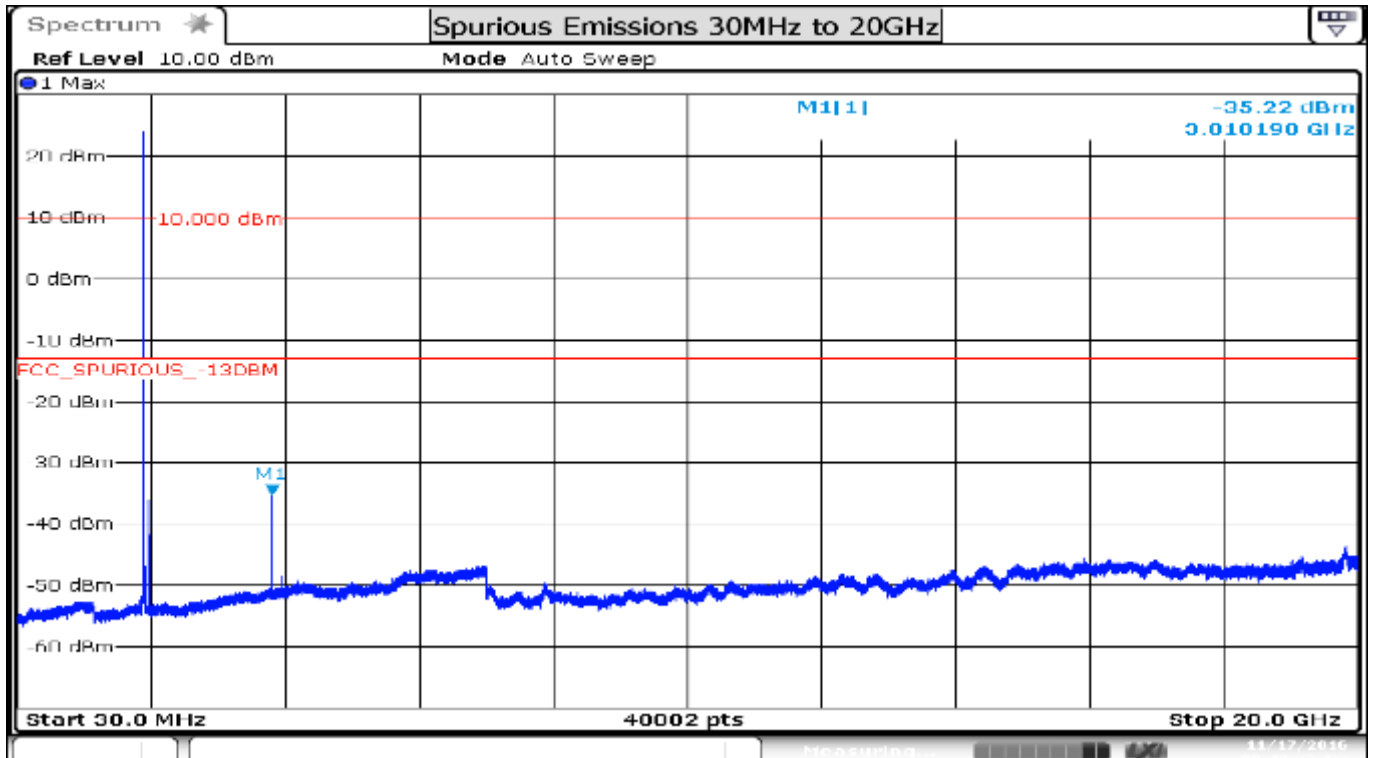
B.4.4 Conducted Spurious Emission Results Screenshots



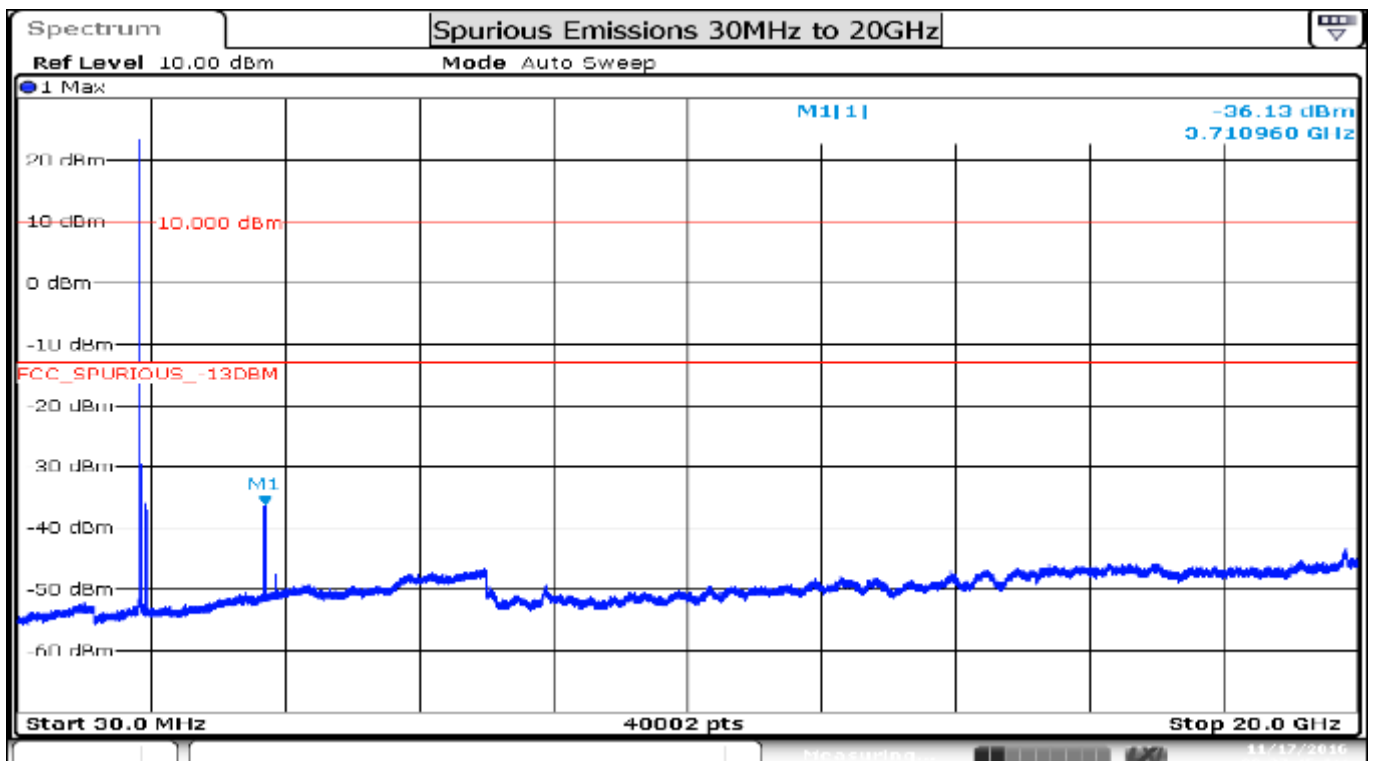
LTE 2 QPSK BW10MHz 1855MHz Channel Low 18650 1RB-0



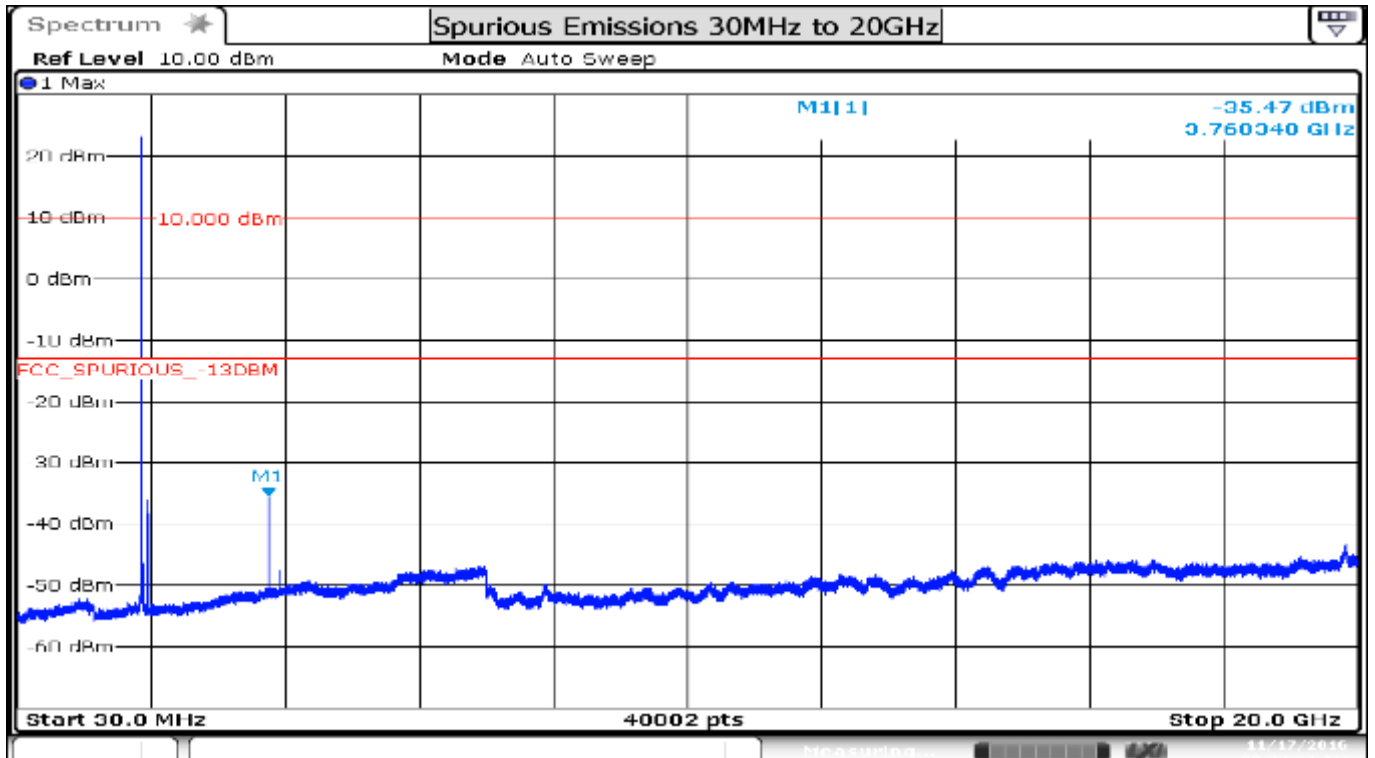
LTE 2 QPSK BW10MHz 1880MHz Channel Mid 18900 1RB-0



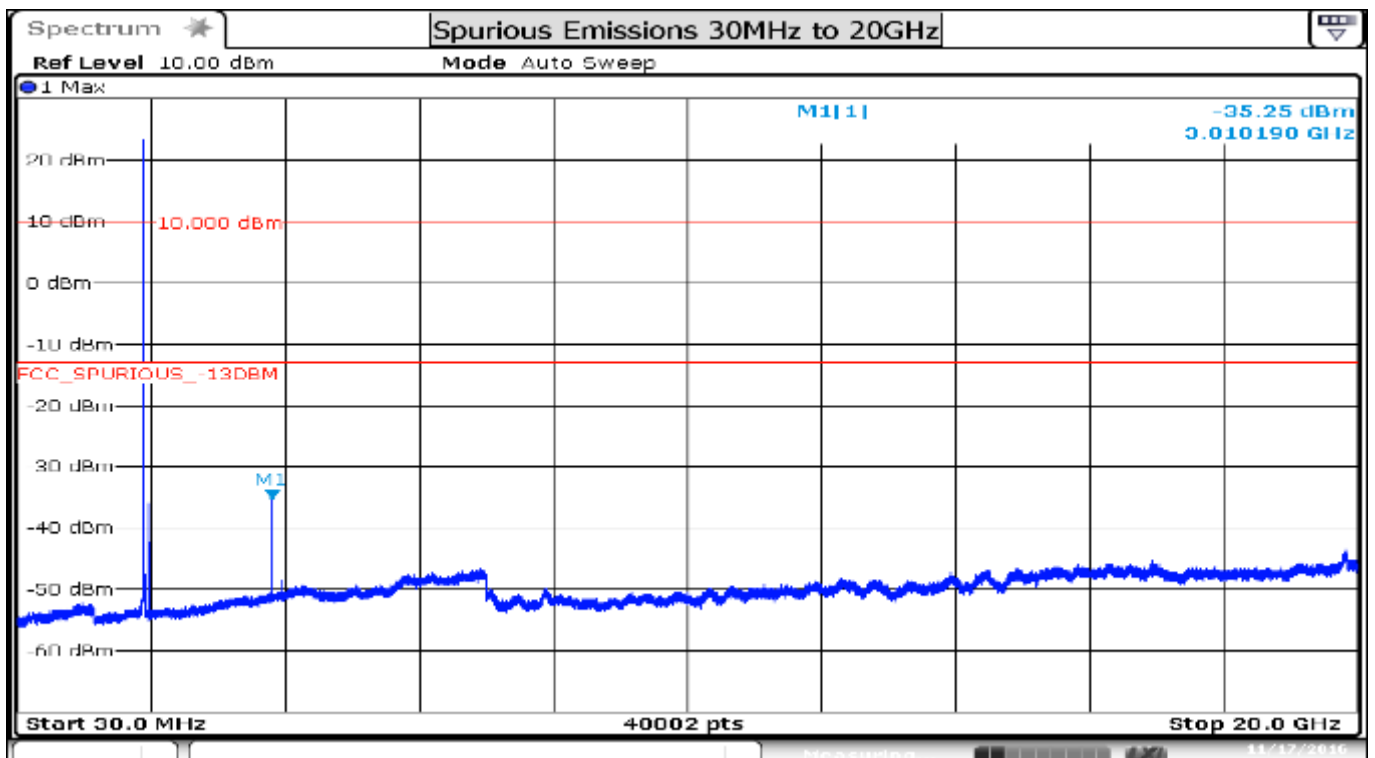
LTE 2 QPSK BW10MHz 1905MHz Channel High 19150 1RB-0



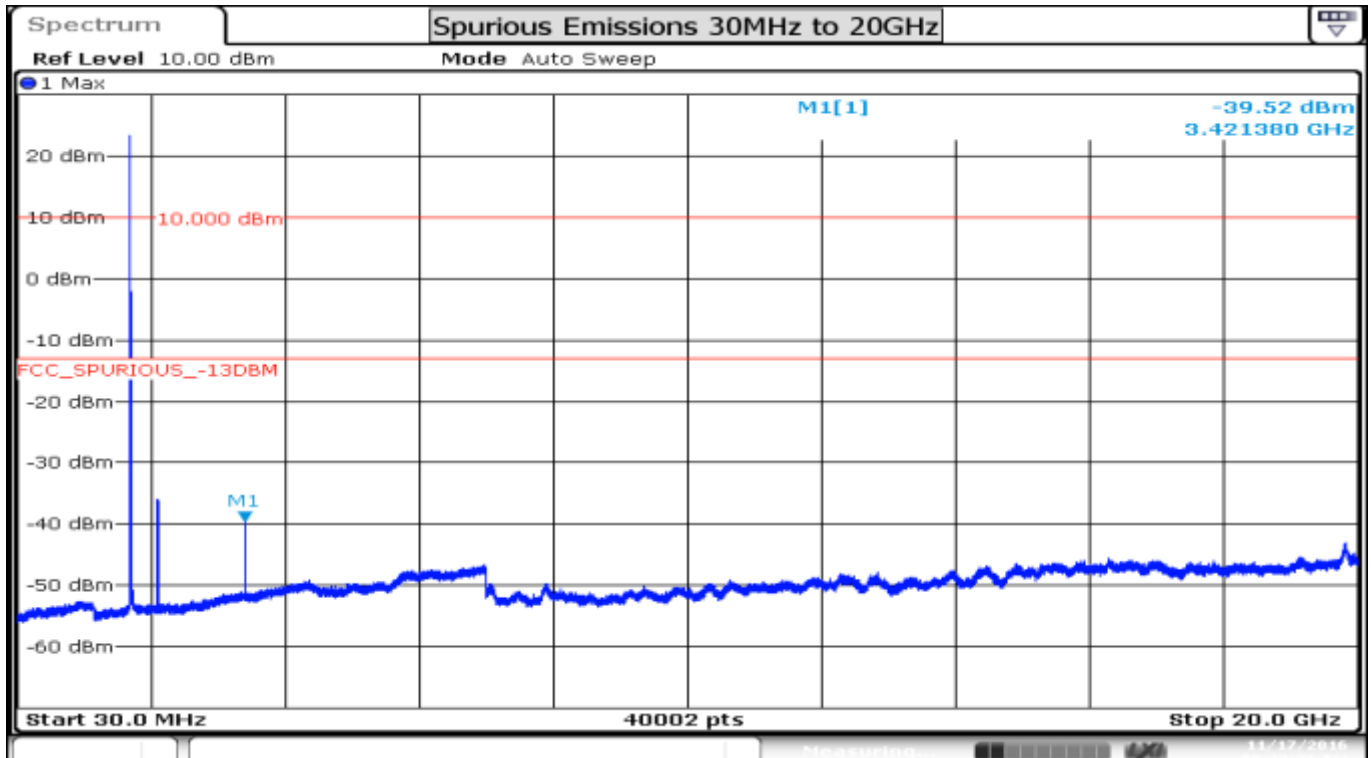
LTE 2 16QAM BW10MHz 1855MHz Channel Low 18650 1RB-0



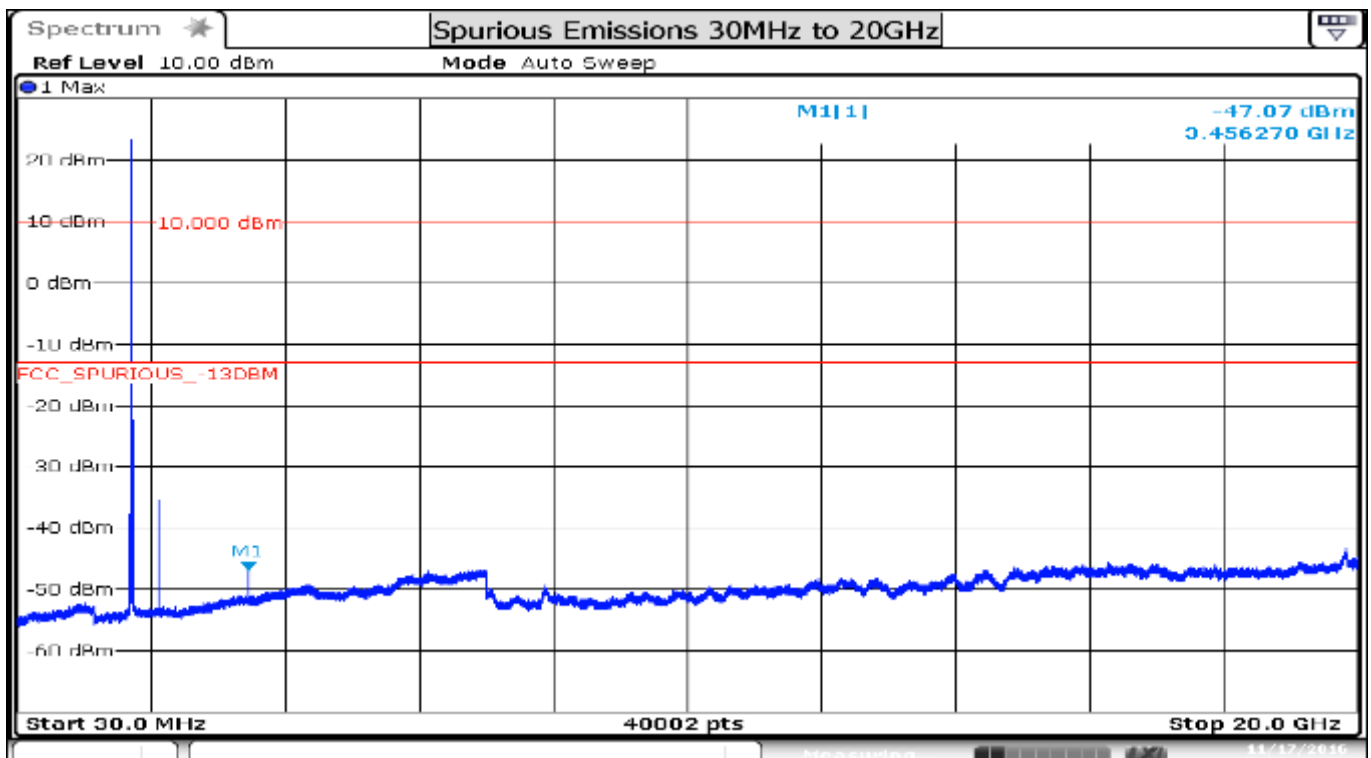
LTE 2 16QAM BW10MHz 1880MHz Channel Mid 18900 1RB-0



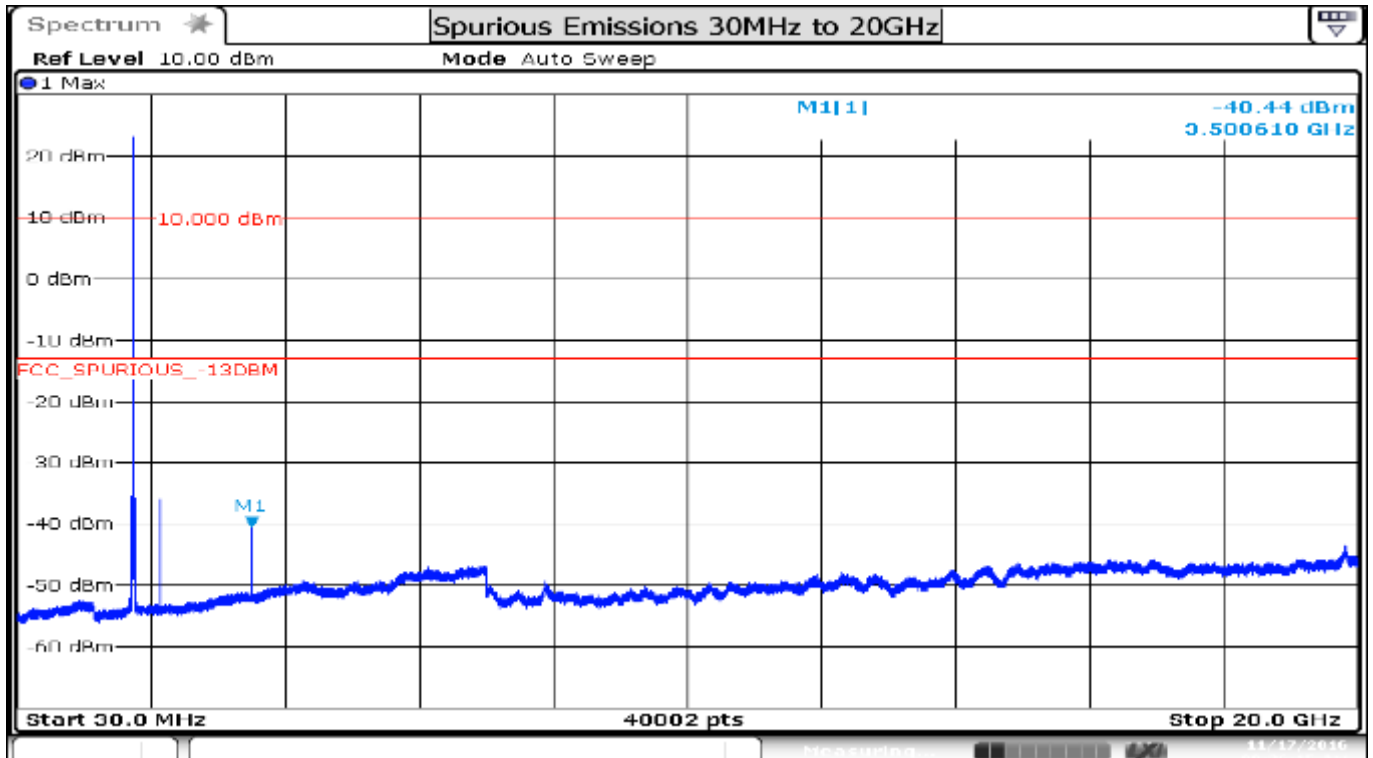
LTE 2 16QAM BW10MHz 1905MHz Channel High 19150 1RB-0



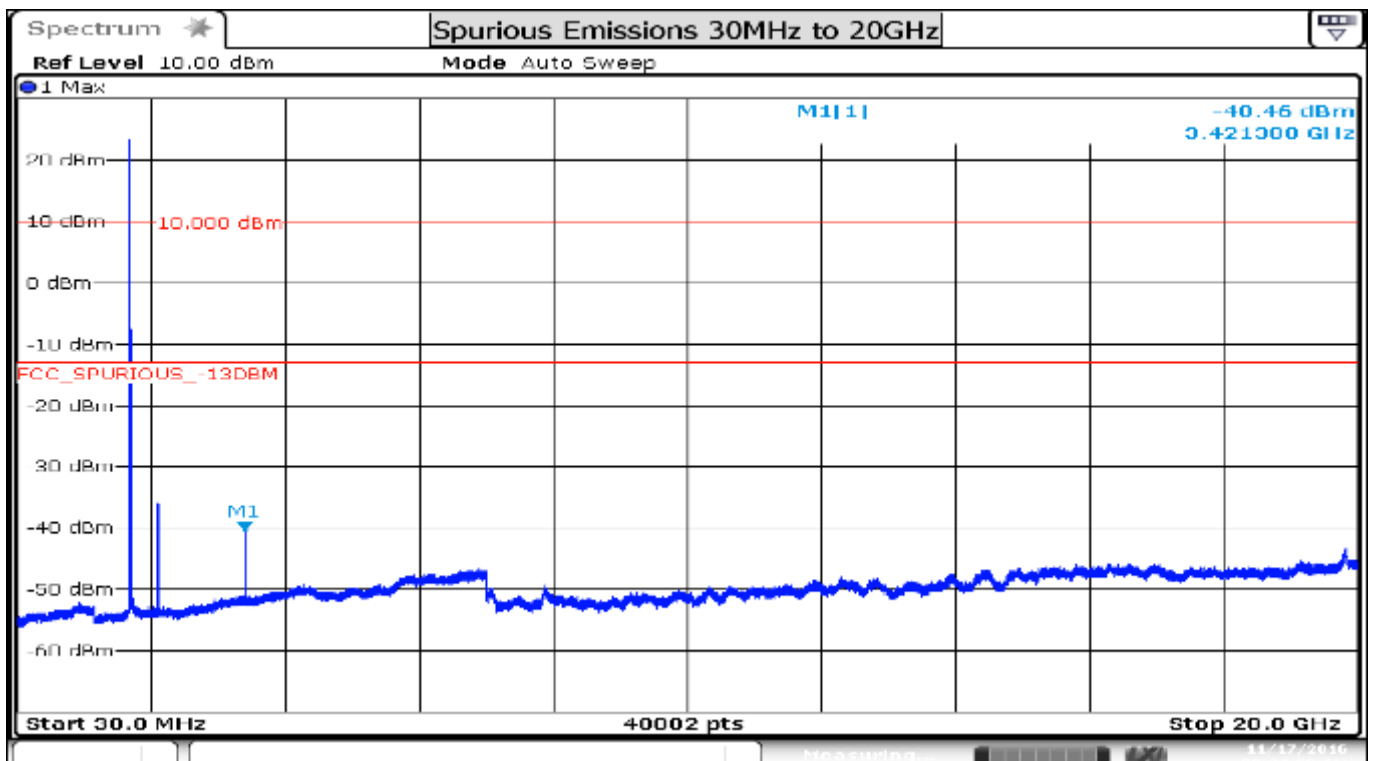
LTE 4 QPSK BW10MHz 1715MHz Channel Low 20000 1RB-0



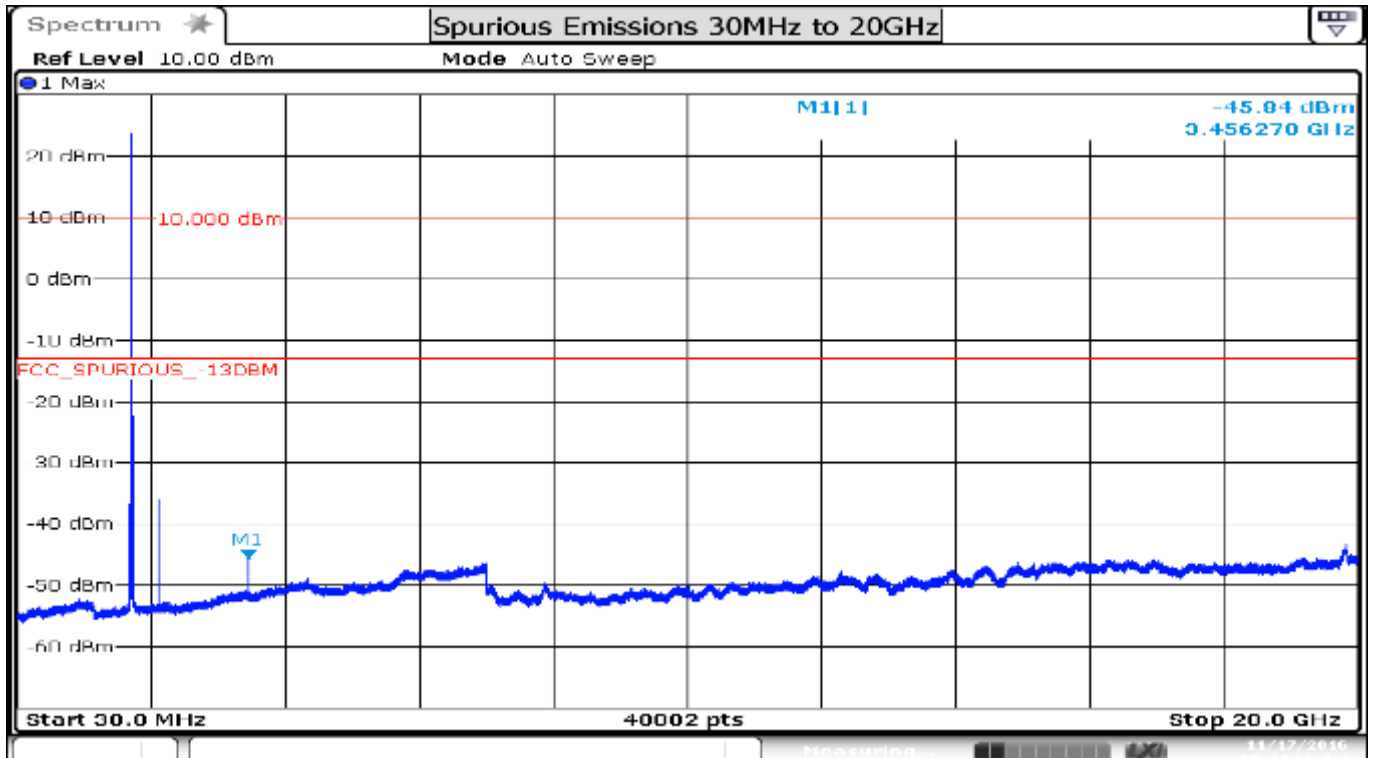
LTE 4 QPSK BW10MHz 1732.5MHz Channel Mid 20175 1RB-0



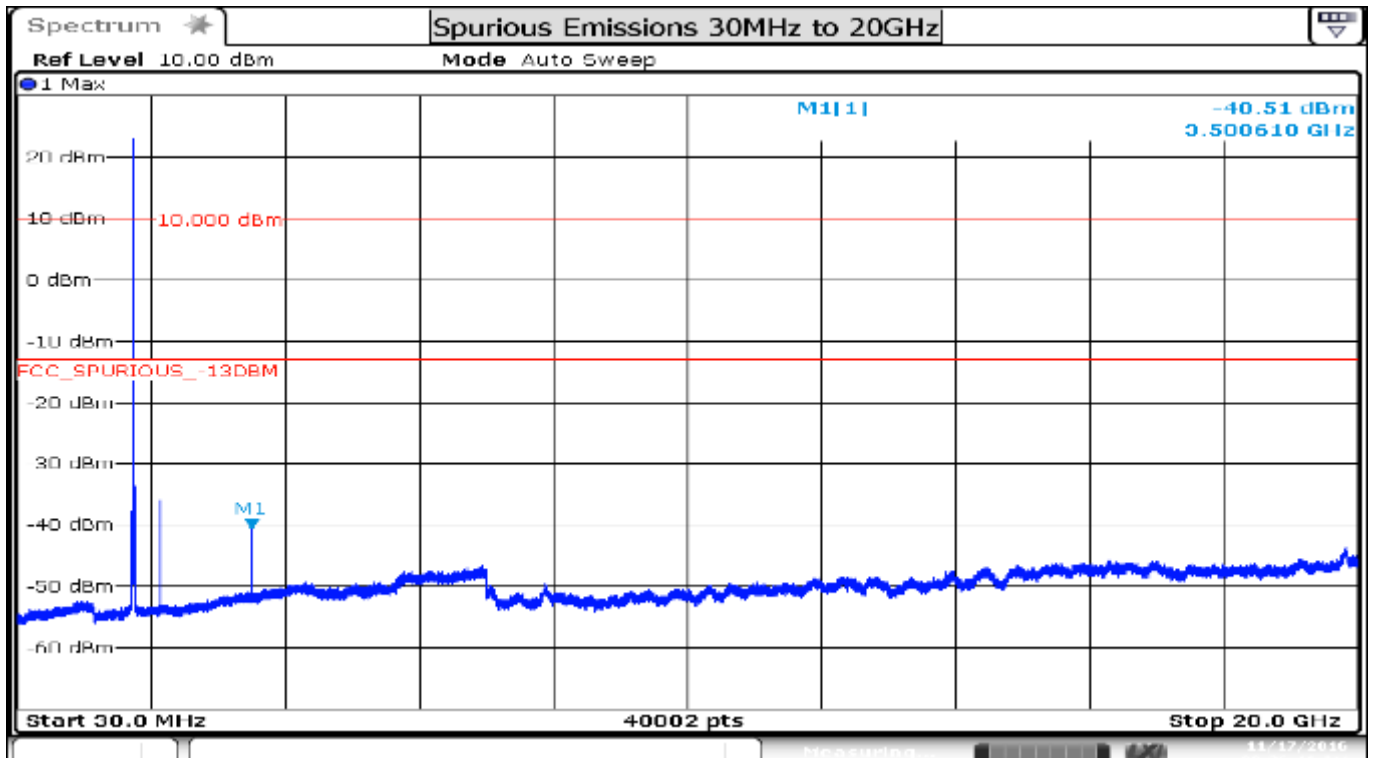
LTE 4 QPSK BW10MHz 1750MHz Channel High 20350 1RB-0



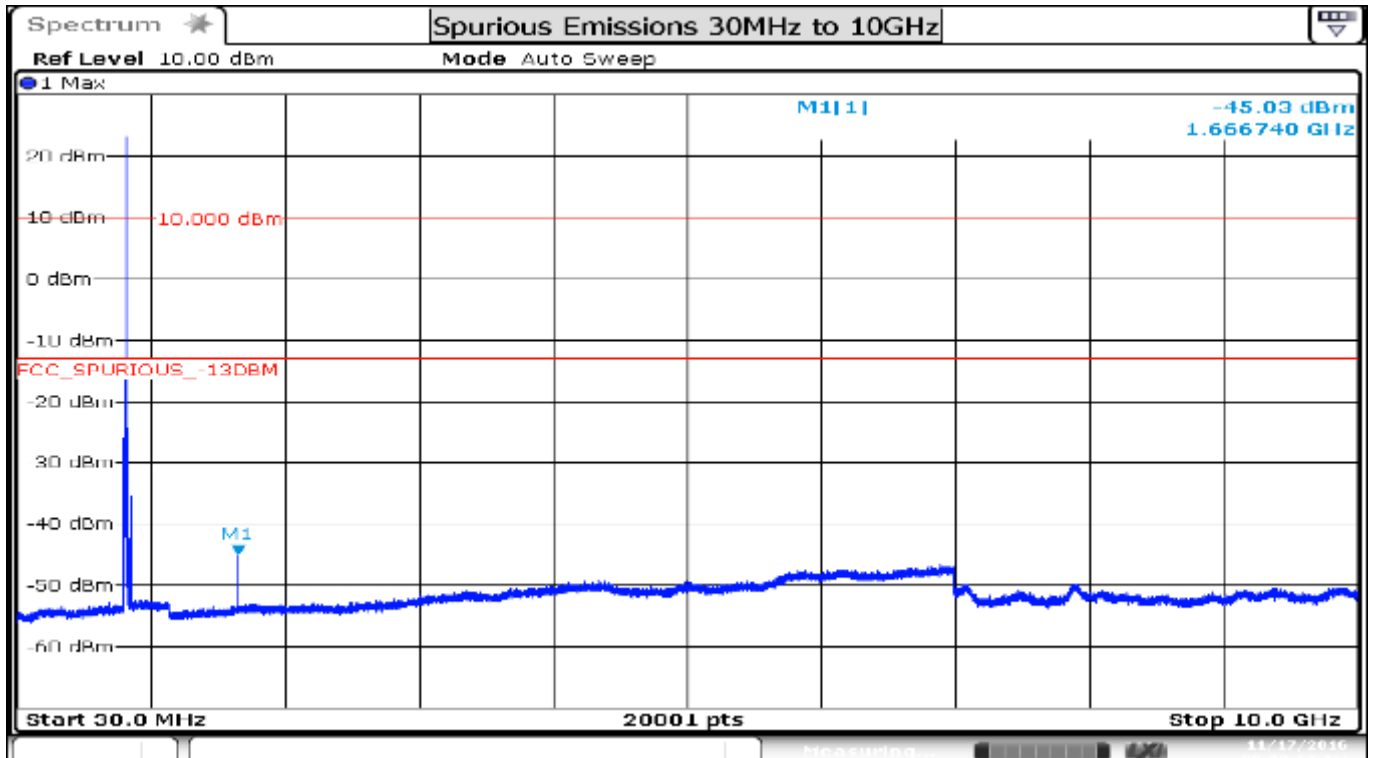
LTE 4 16QAM BW10MHz 1715MHz Channel Low 20000 1RB-0



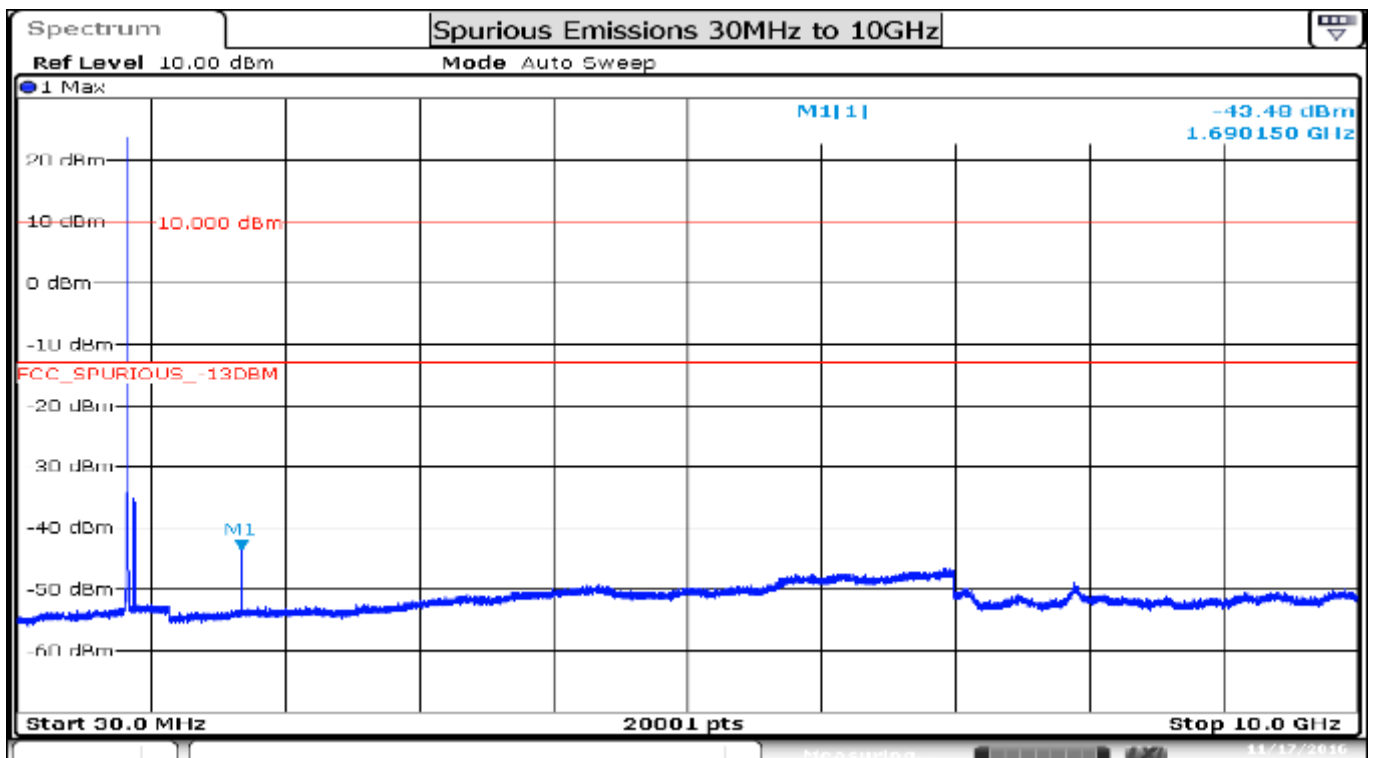
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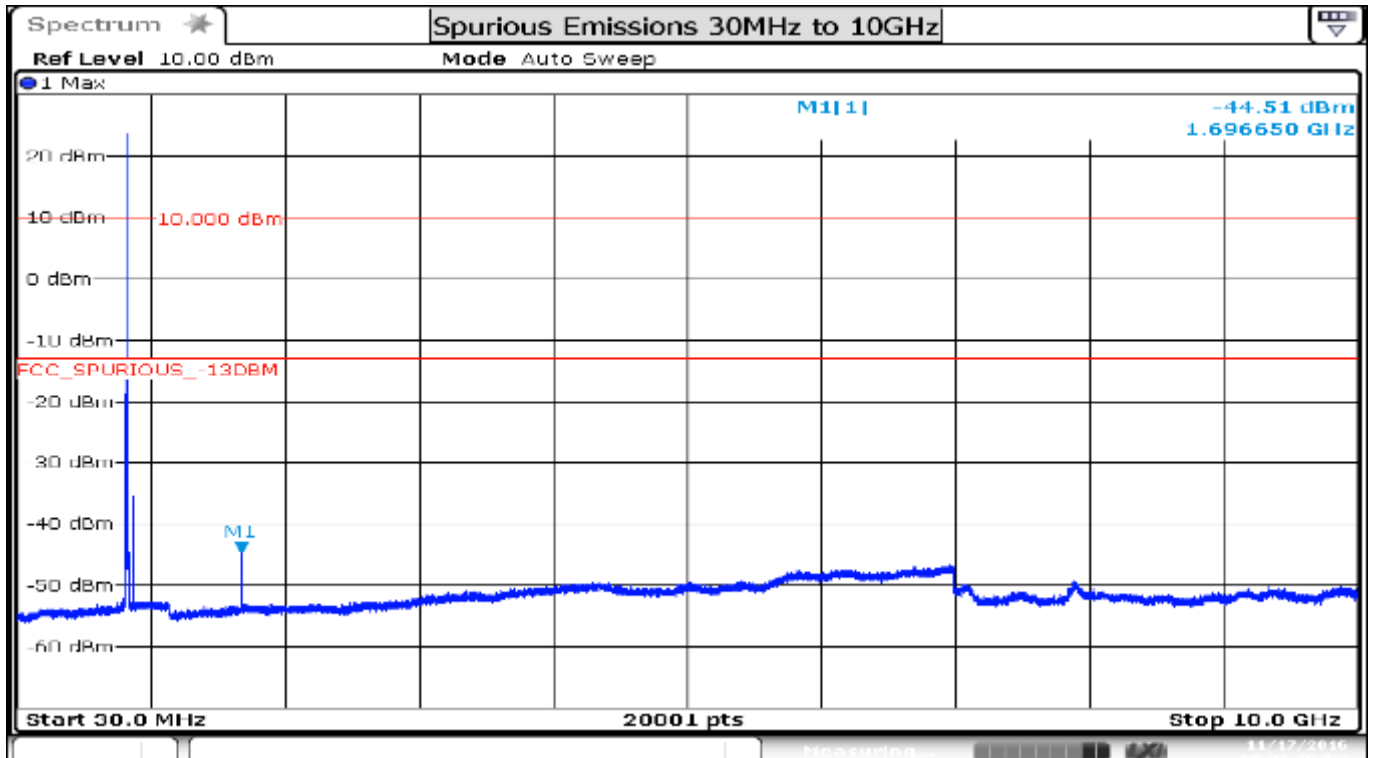
LTE 4 16QAM BW10MHz 1750MHz Channel High 20350 1RB-0



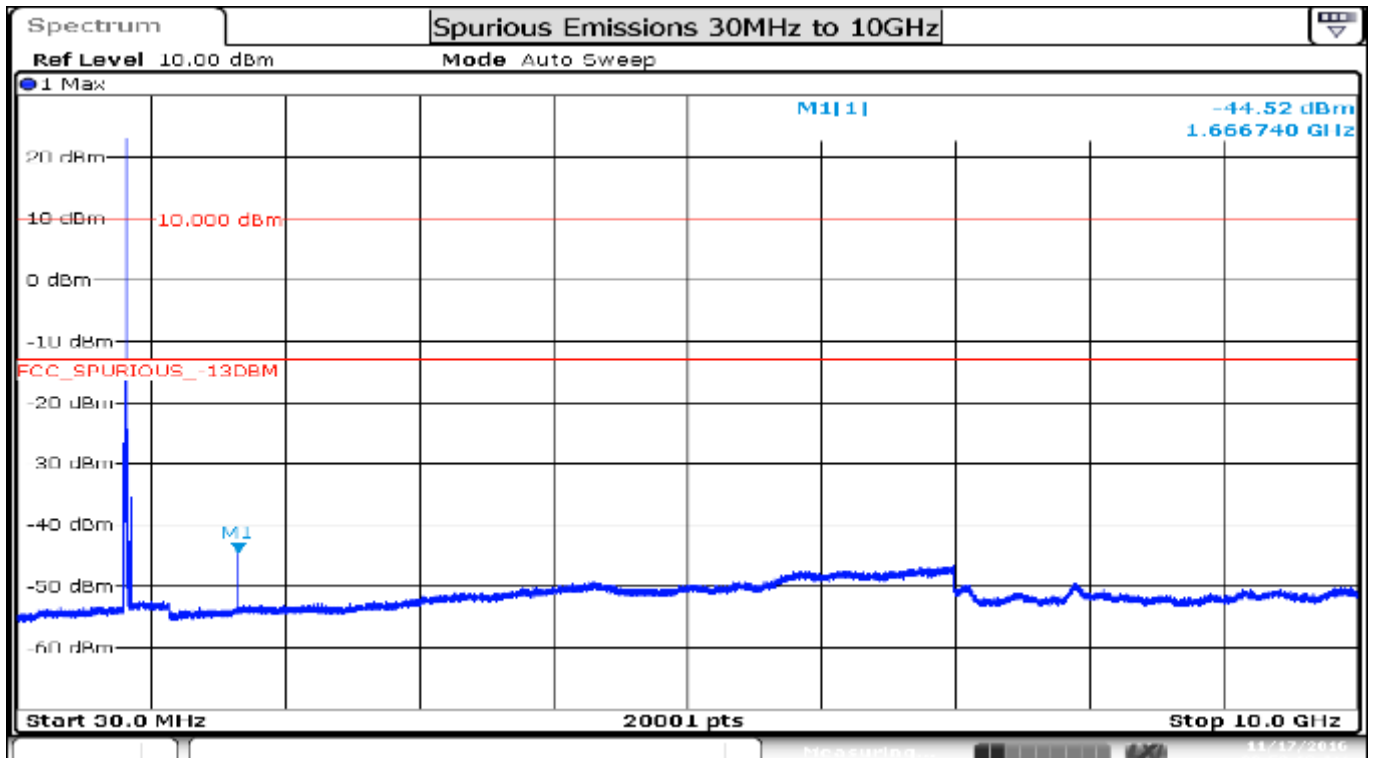
LTE 5 QPSK BW10MHz 829MHz Channel Low 20450 1RB-0



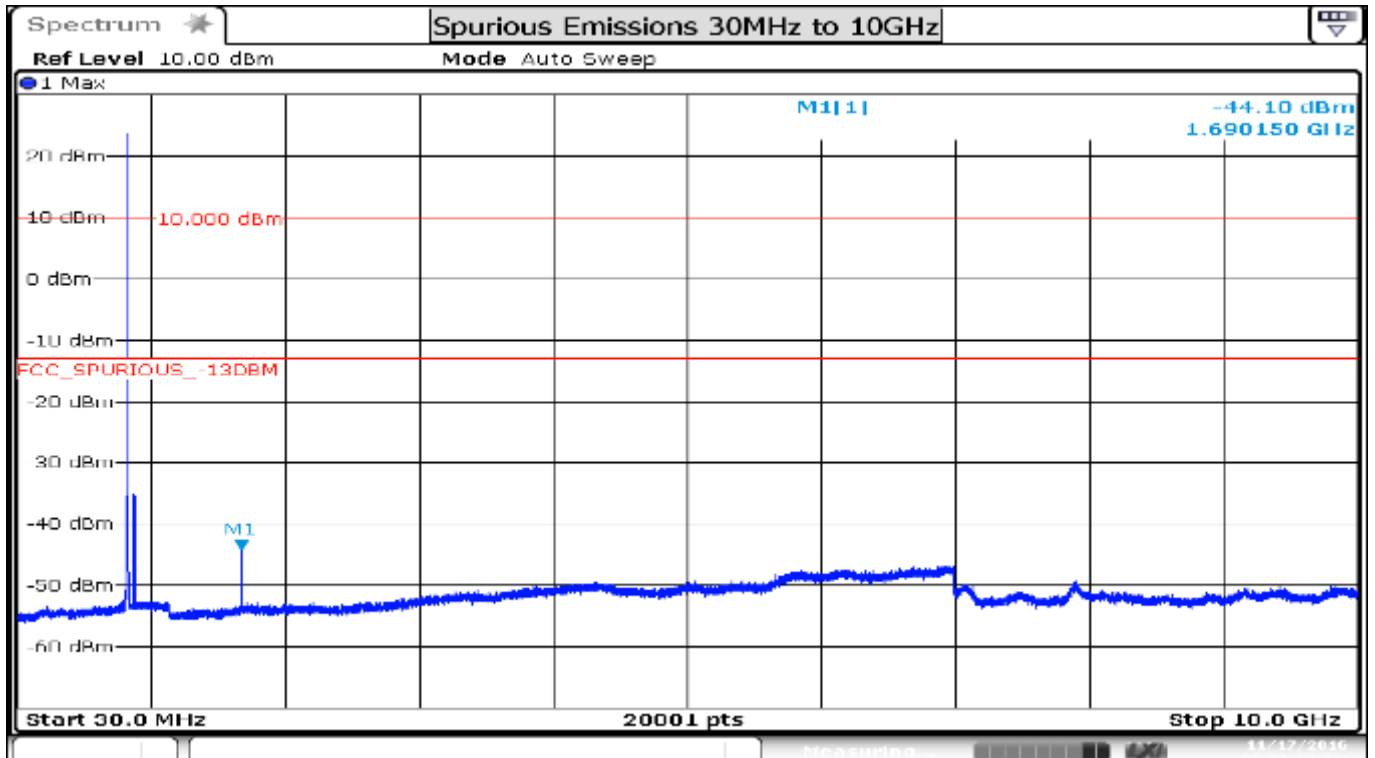
LTE 5 QPSK BW10MHz 836.5MHz Channel Mid 20525 1RB-0



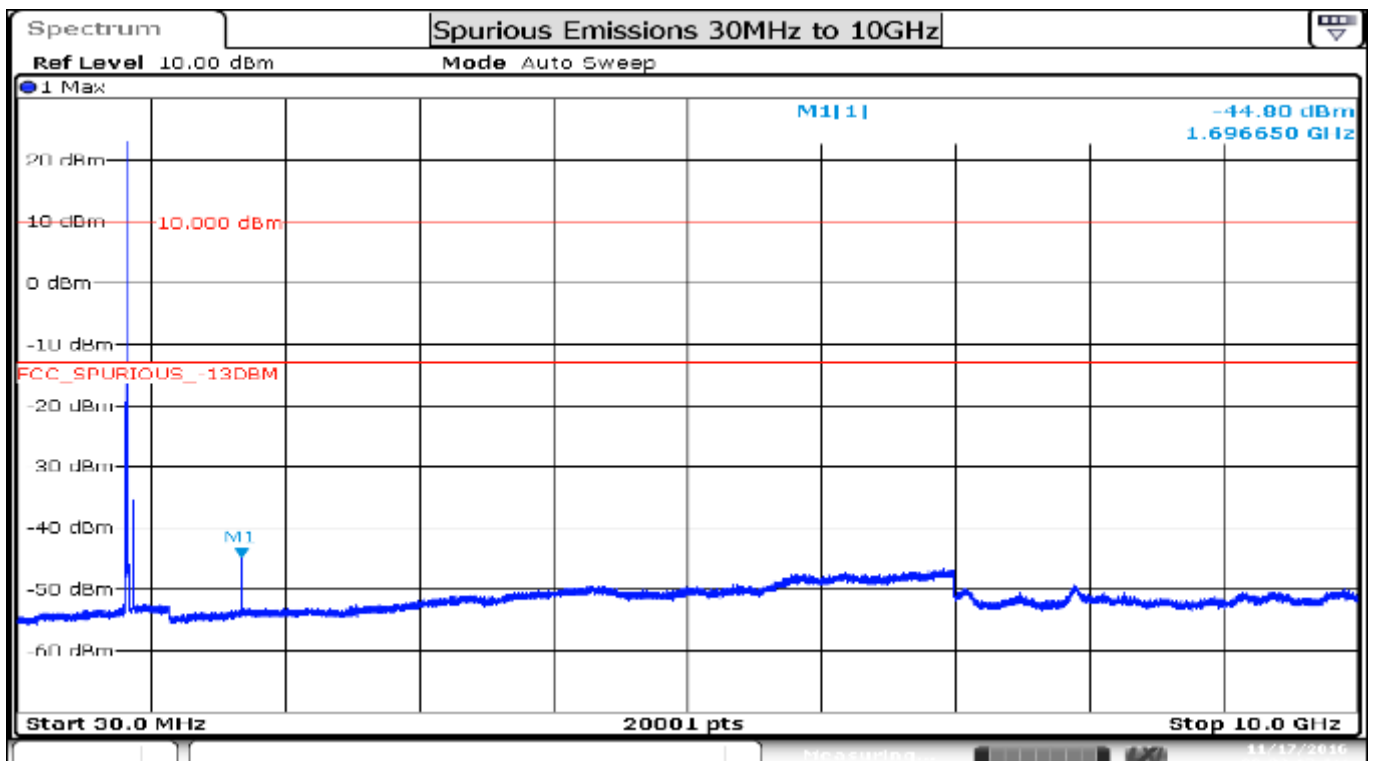
LTE 5 QPSK BW10MHz 844MHz Channel High 20600 1RB-0



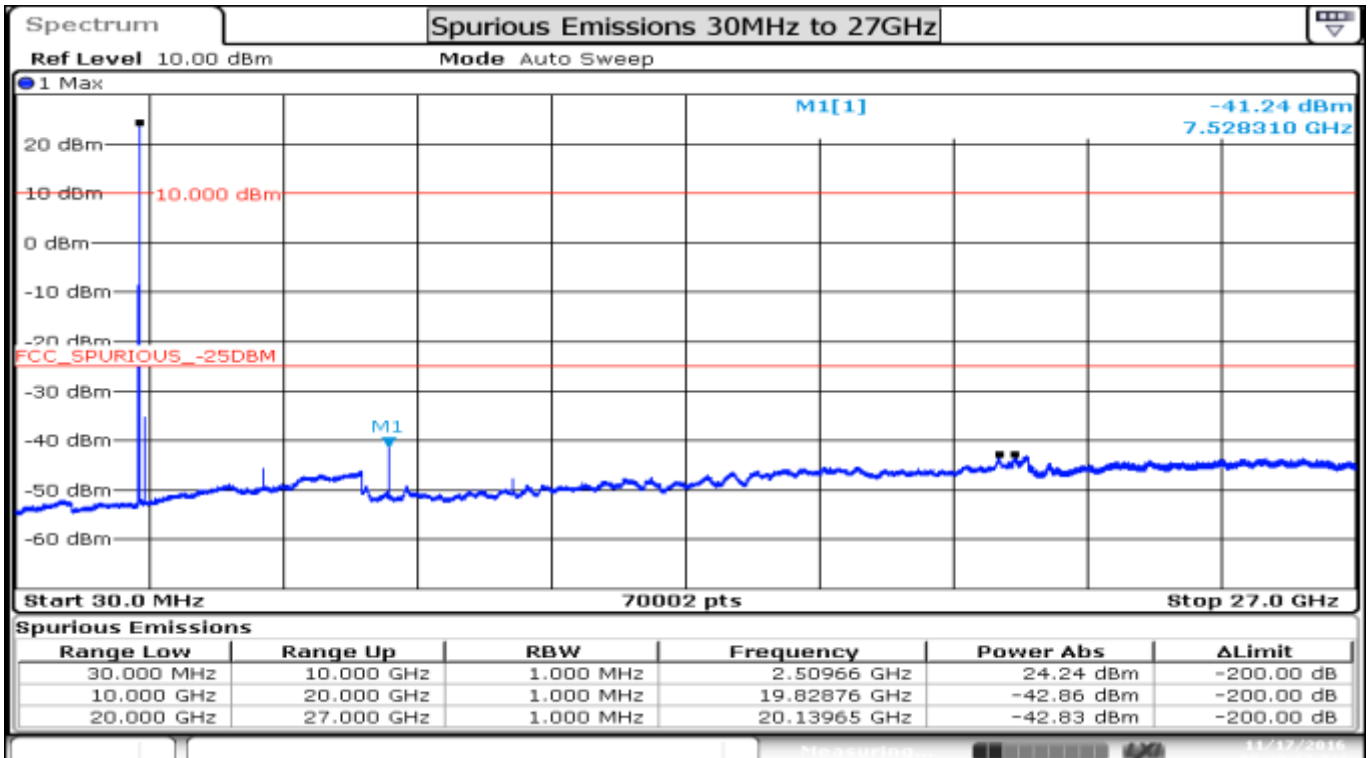
LTE 5 16QAM BW10MHz 829MHz Channel Low 20450 1RB-0



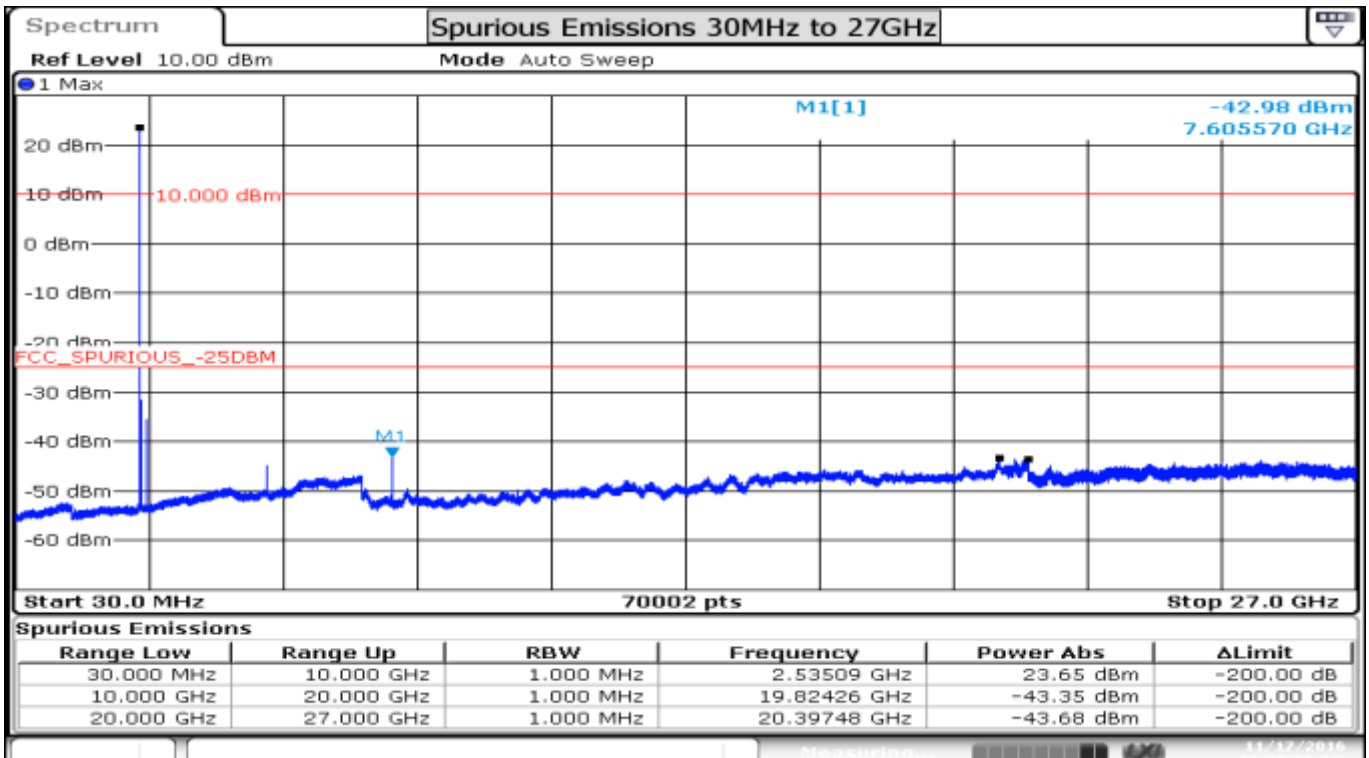
LTE 5 16QAM BW10MHz 836.5MHz Channel Mid 20525 1RB-0



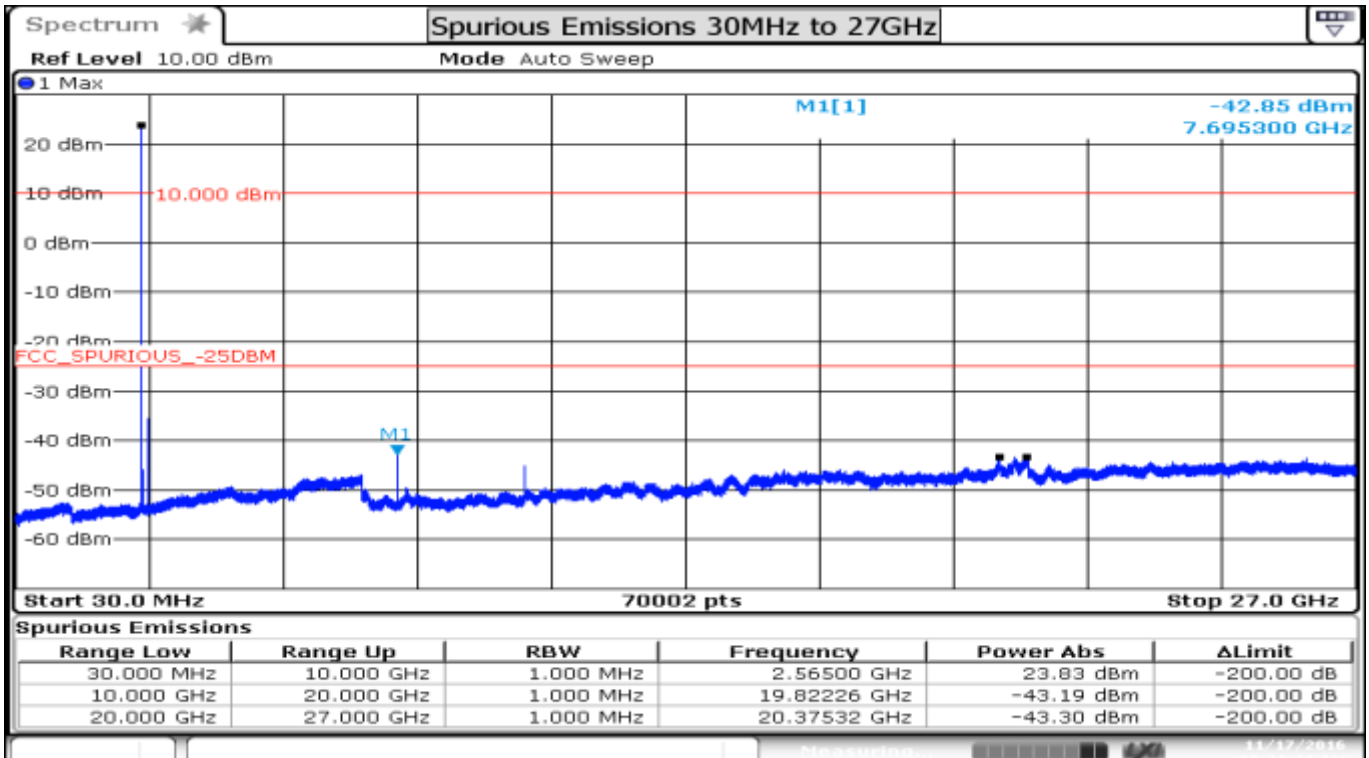
LTE 5 16QAM BW10MHz 844MHz Channel High 20600 1RB-0



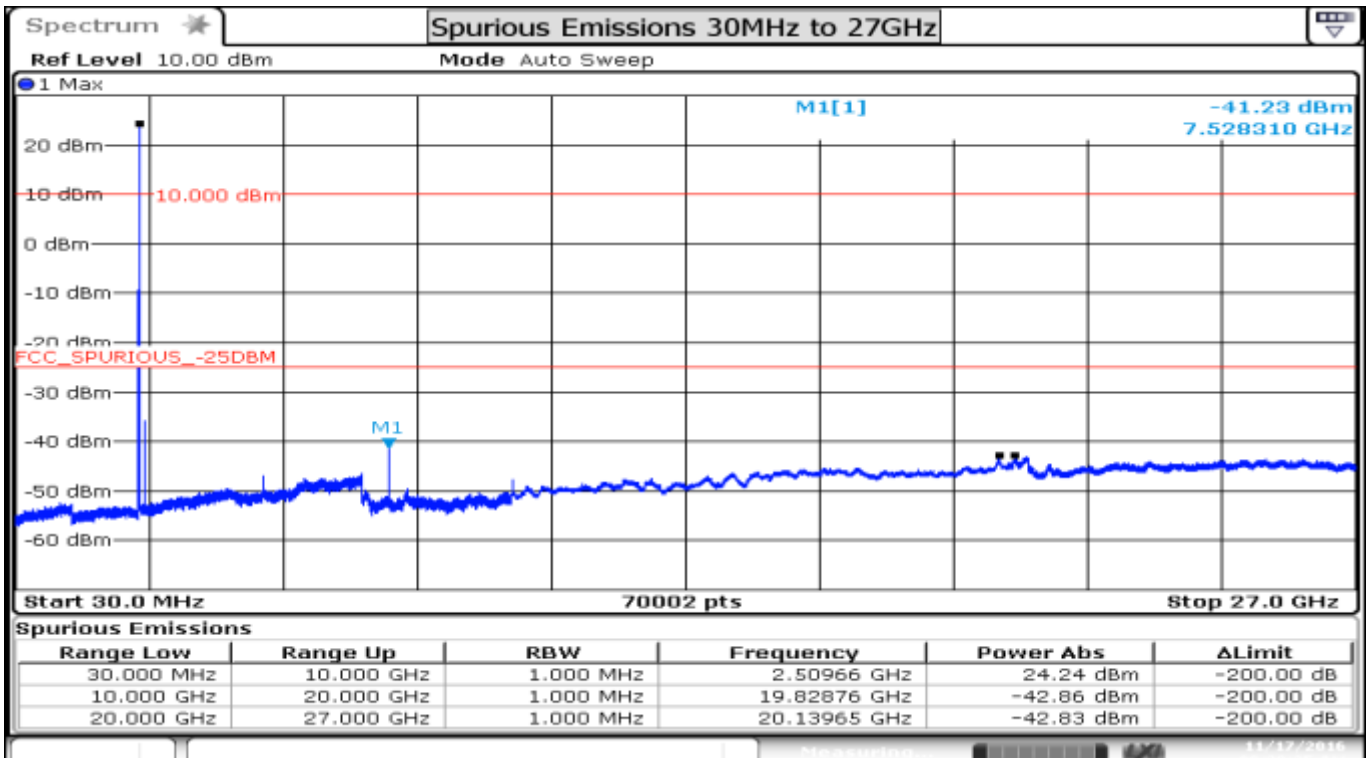
LTE 7 QPSK BW10MHz 2505MHz Channel Low 20800 1RB-0



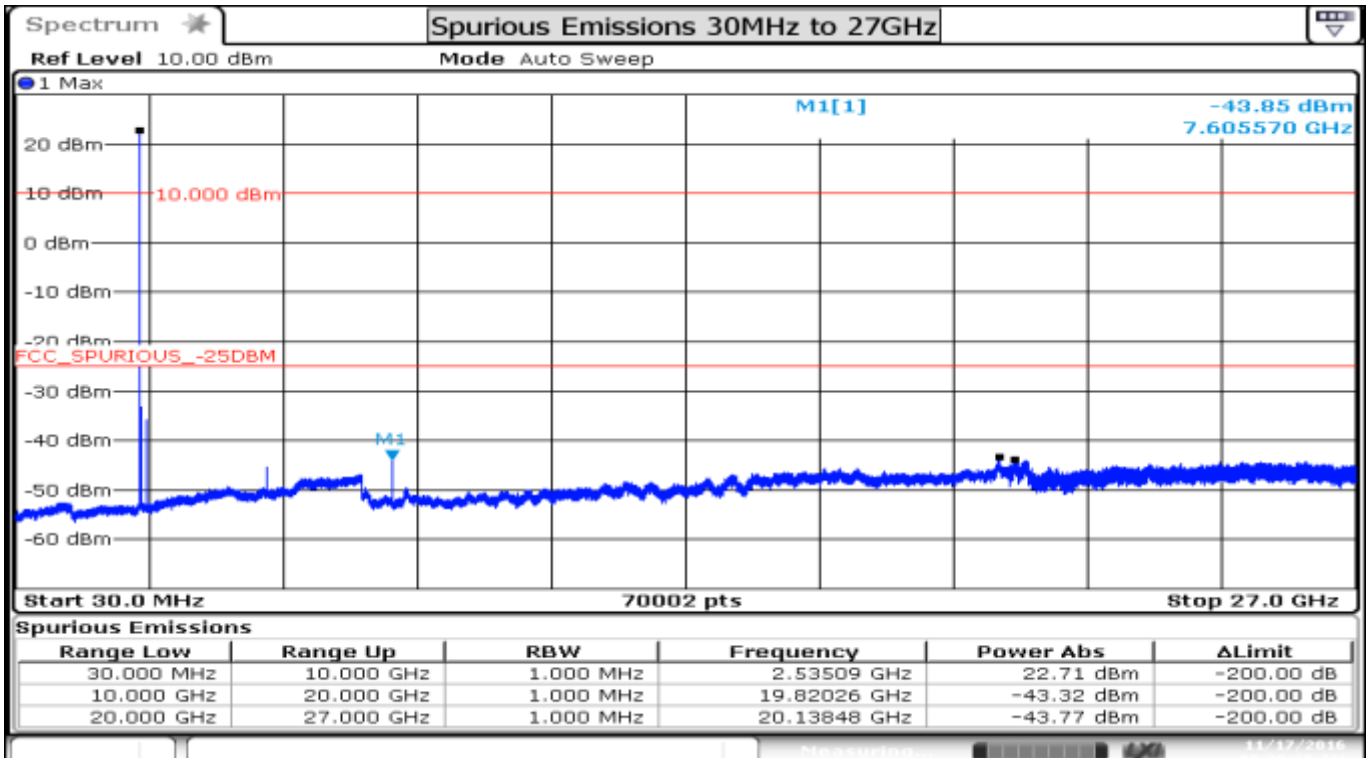
LTE 7 QPSK BW10MHz 2535MHz Channel Mid 21100 1RB-0



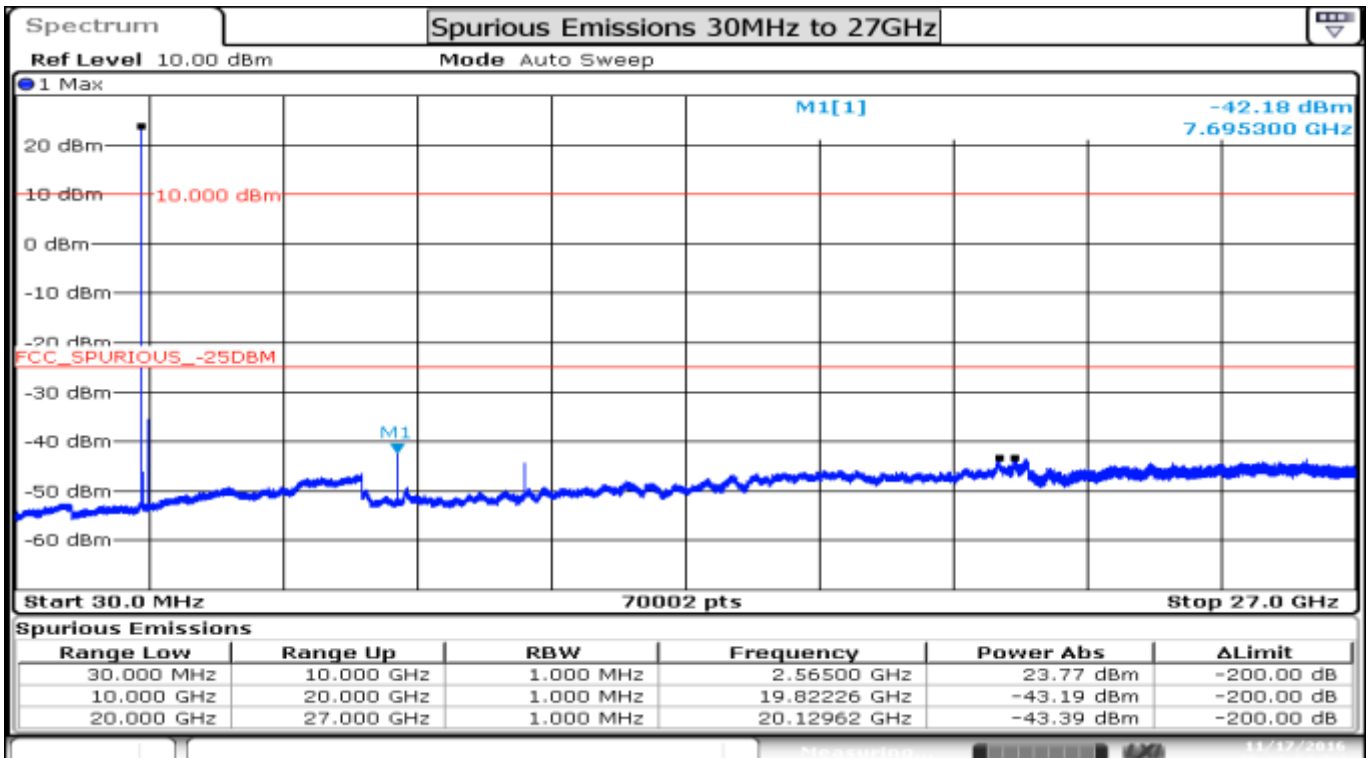
LTE 7 QPSK BW10MHz 2565MHz Channel High 21400 1RB-0



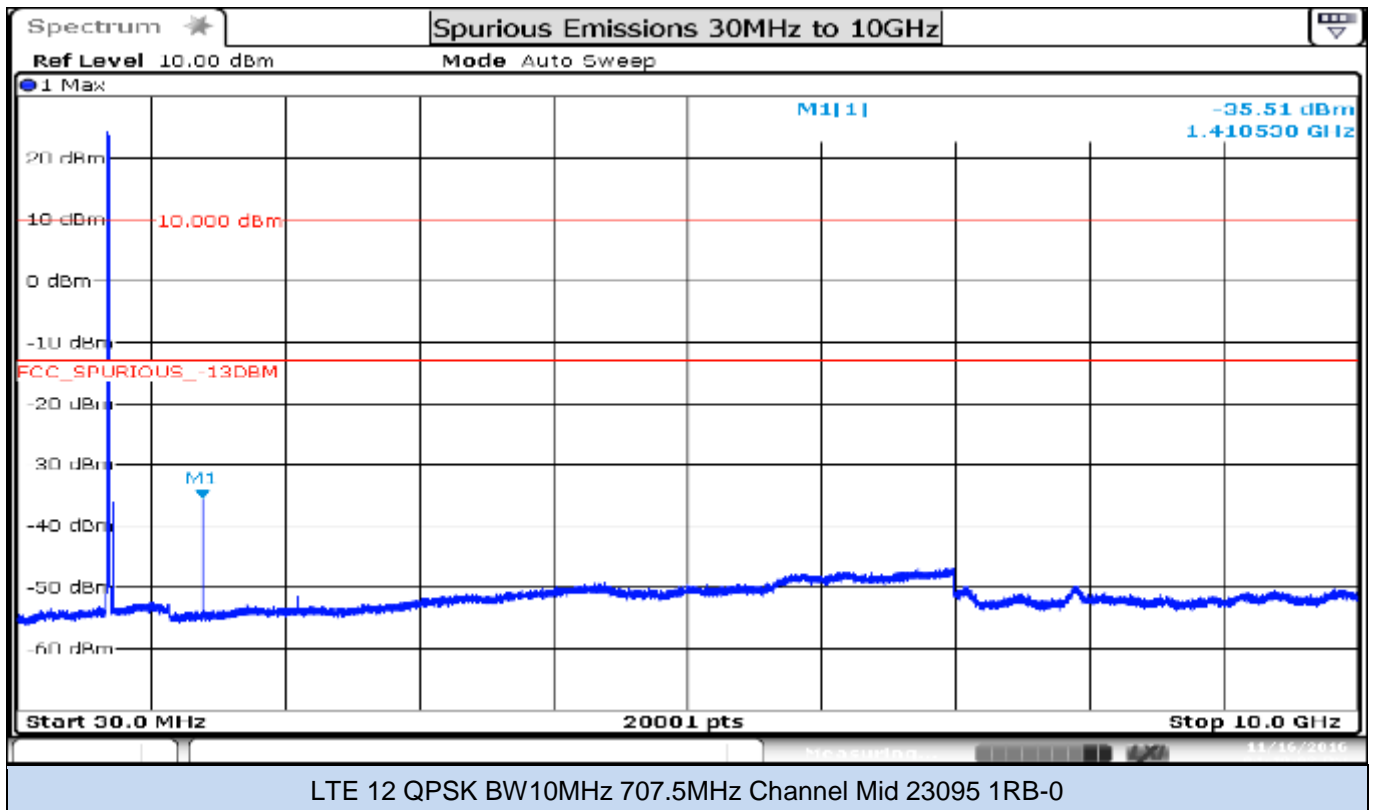
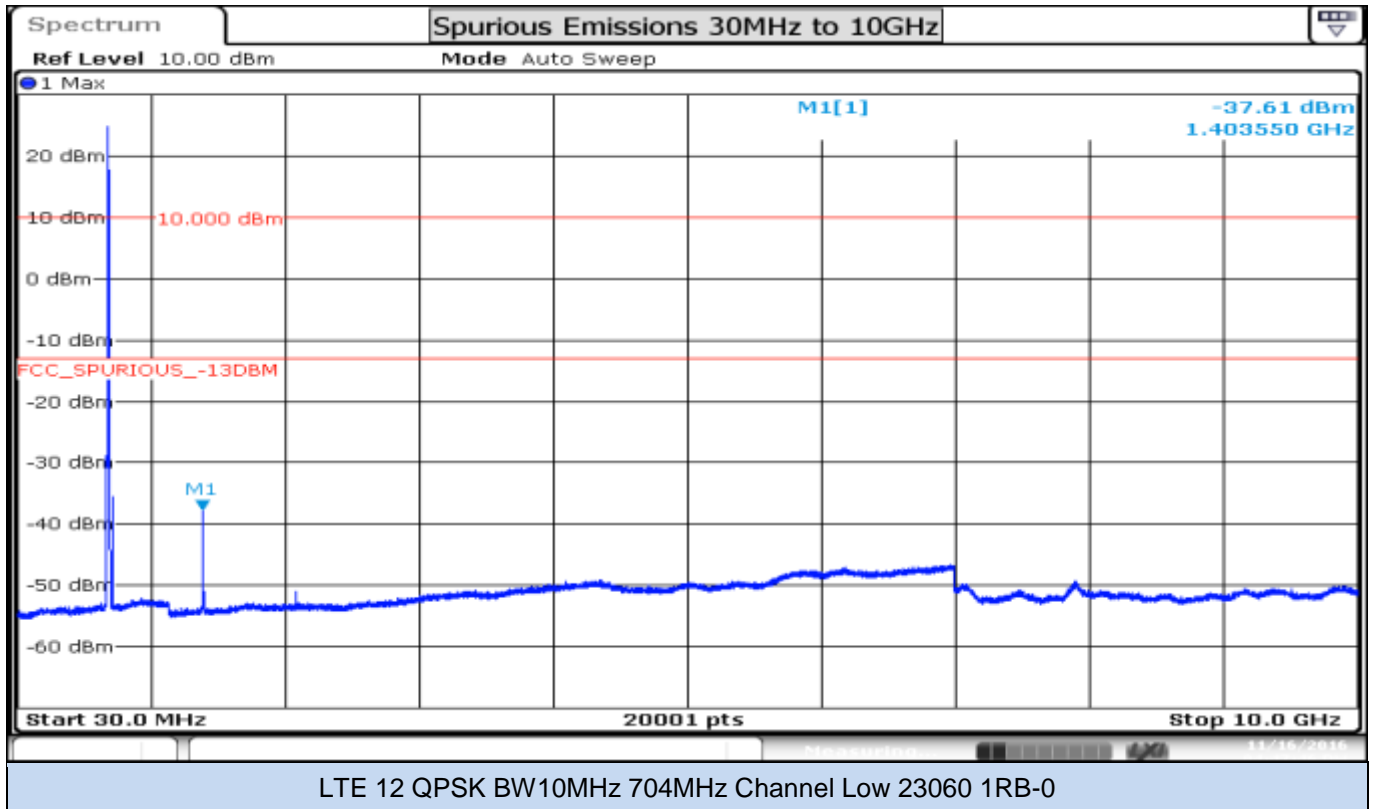
LTE 7 16QAM BW10MHz 2505MHz Channel Low 20800 1RB-0

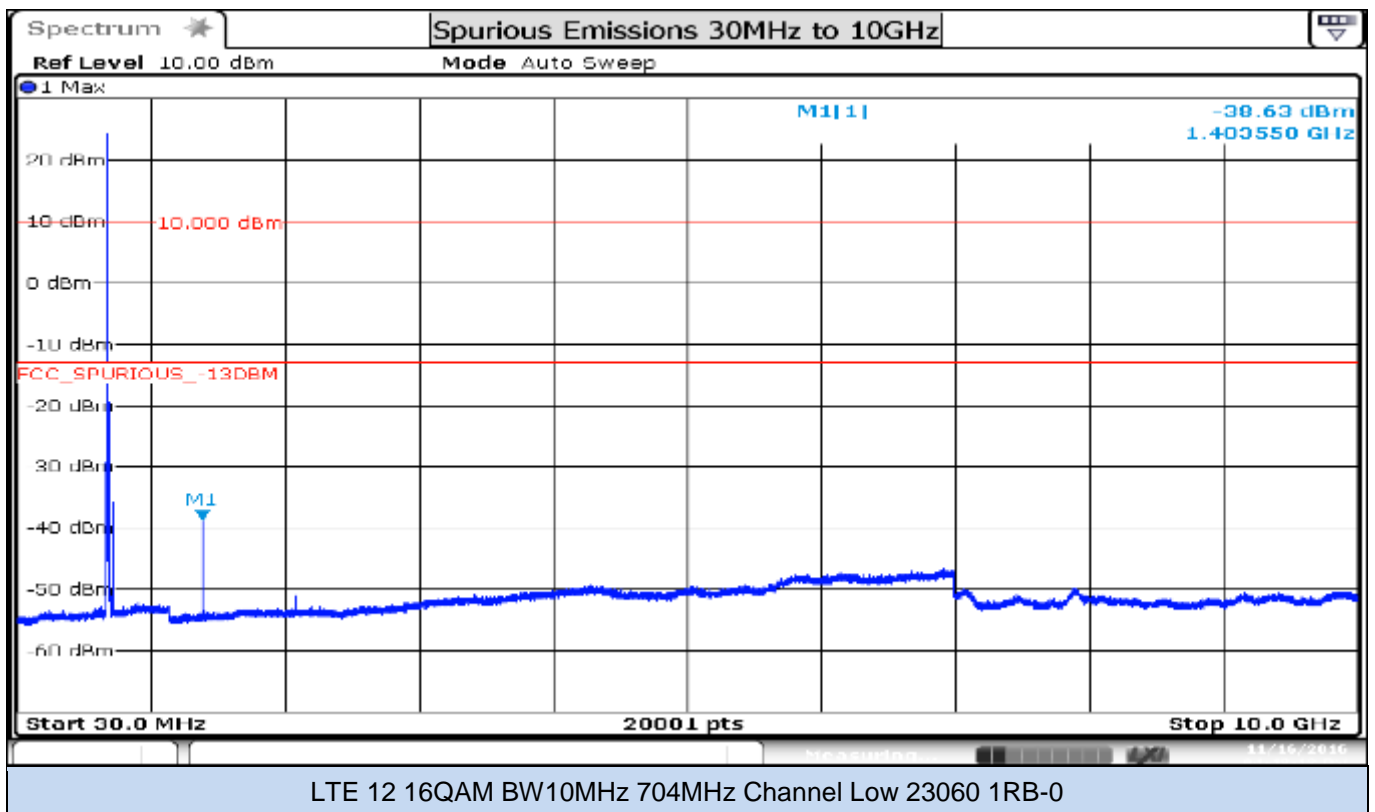
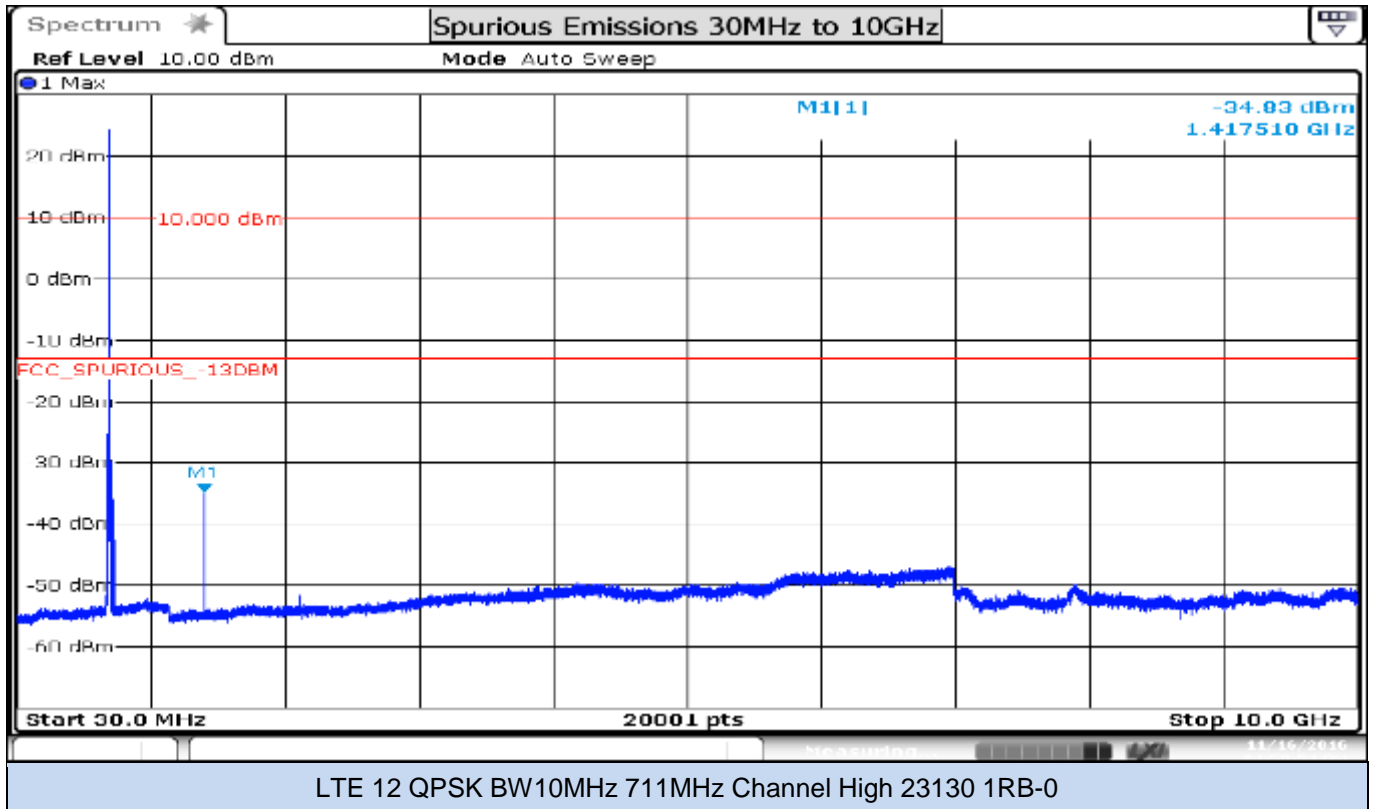


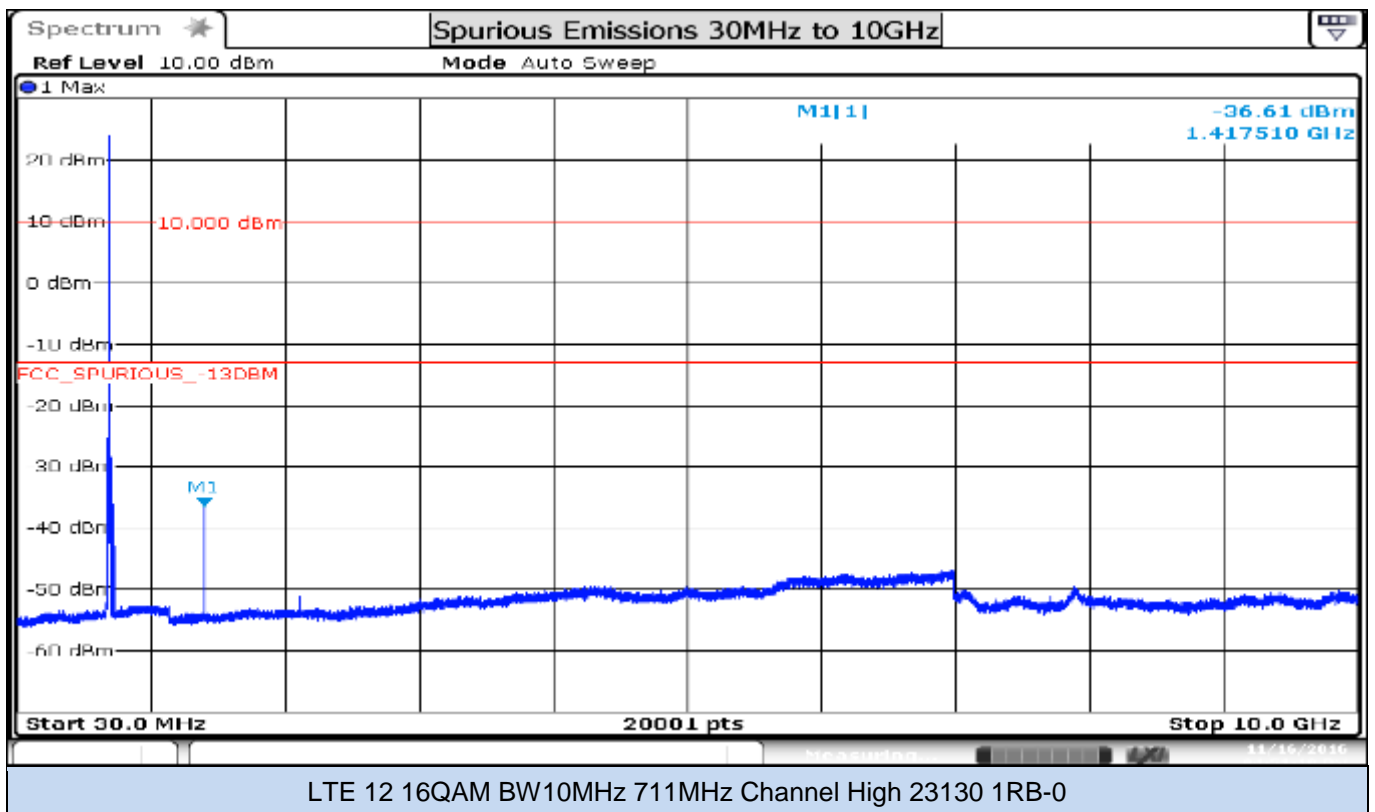
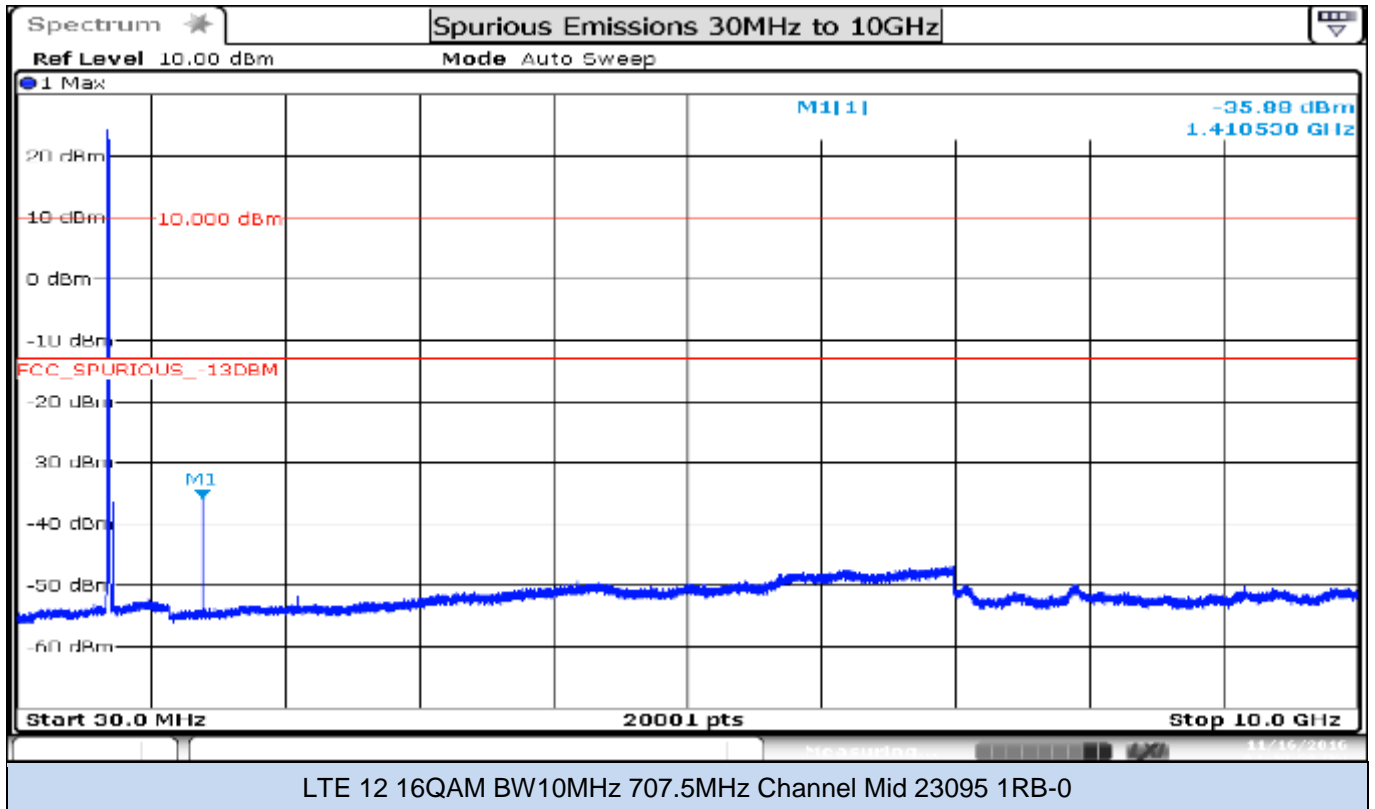
LTE 7 16QAM BW10MHz 2535MHz Channel Mid 21100 1RB-0



LTE 7 16QAM BW10MHz 2565MHz Channel High 21400 1RB-0







B.5 Frequency Stability

B.5.1 Standard references

BAND	FCC parts	Limits
LTE2	2.1055, 22.355, 24.235, 27.54	<p>§2.1055 The frequency stability shall be measured with variation of ambient temperature from -30° to +50° centigrade, at intervals of not more than 10° centigrade through the range.</p> <p>(d)(2)For hand carried, battery powered equipment, reduce primary supply voltage to the battery operating end point which shall be specified by the manufacturer.</p> <p>§22.355 – (for transmitters from 821 to 896 MHz) The carrier frequency shall not depart from the reference frequency in excess of ±2.5 ppm for mobile stations.</p> <p>§24.235 - The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.</p>
LTE4		
LTE5(19)		
LTE7		
LTE12(17)		
LTE13		

B.5.2 Test procedure

The setup showed below is used to measure the frequency stability. The antenna terminal of the EUT is connected to the communication tester (id# 311) and its Frequency Error measurement capability is used. The peak frequency error is recorded (worst-case).

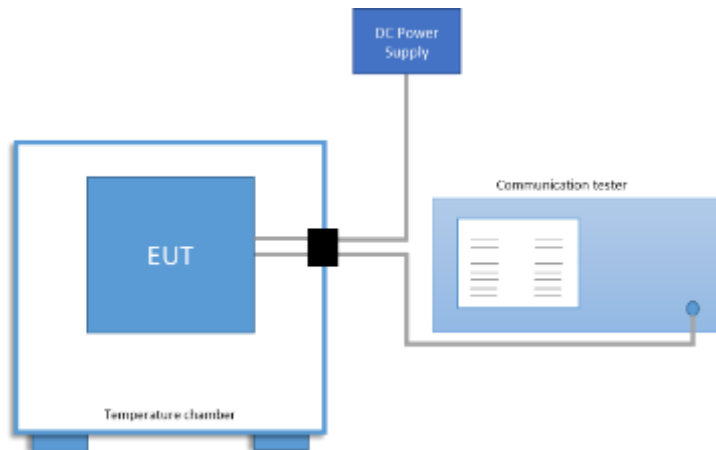
- Temperature = -30 °C to +50 °C
- Voltage = Low 3.23V, Normal 3.8 V, High 4.37V

Frequency Stability vs. Temperature:

The EUT is placed inside a temperature chamber. The temperature is varied from -30°C to +50°C in 10°C increment. For each temperature increment the frequency error is measured after sufficient soak time.

Frequency Stability vs. Voltage:

The frequency error was measured at ambient temperature for voltage set at 85% and 115% of nominal voltage.



B.5.3 Results tables

Band	Channel #	Freq. [MHz]	RBs	Temp. [°C]	Voltage [V]	QPSK		16QAM	
						Freq. Error [Hz]	Freq. Error [ppm]	Freq. Error [Hz]	Freq. Error [ppm]
LTE 2	18900	1880	50	+50	3.8	12.9600	0.0069	-15.7300	-0.0084
				+40		13.5800	0.0072	-18.1800	-0.0097
				+30		13.0200	0.0069	21.7000	0.0115
				+20		12.6900	0.0068	23.1600	0.0123
				+10		15.7100	0.0084	12.7600	0.0068
				0		8.8800	0.0047	8.9000	0.0047
				-10		14.1300	0.0075	-16.0600	-0.0085
				-20		10.0900	0.0054	11.1400	0.0059
				-30		11.9700	0.0064	-7.9000	-0.0042
				25		4.37	9.8300	0.0052	9.9600
				25	3.23	10.9600	0.0058	11.0100	0.0059

Band	Channel #	Freq. [MHz]	RBs	Temp. [°C]	Voltage [V]	QPSK		16QAM	
						Freq. Error [Hz]	Freq. Error [ppm]	Freq. Error [Hz]	Freq. Error [ppm]
LTE 4	20175	1732.5	50	+50	3.8	-12.8700	-0.0074	-11.8900	-0.0069
				+40		-14.9900	-0.0087	15.6500	0.0090
				+30		-12.4900	-0.0072	-18.2200	-0.0105
				+20		-13.3600	-0.0077	-15.8200	-0.0091
				+10		-11.9600	-0.0069	18.2200	0.0105
				0		-10.8600	-0.0063	16.6500	0.0096
				-10		-9.5800	-0.0055	-17.1100	-0.0099
				-20		10.4400	0.0060	-13.1200	-0.0076
				-30		-13.7500	-0.0079	-12.4300	-0.0072
				25		4.37	11.4200	0.0066	15.3200
				25	3.23	12.1300	0.0070	12.6800	0.0073

Band	Channel #	Freq. [MHz]	RBs	Temp. [°C]	Voltage [V]	QPSK		16QAM	
						Freq. Error [Hz]	Freq. Error [ppm]	Freq. Error [Hz]	Freq. Error [ppm]
LTE 5	20525	836.5	50	+50	3.8	8.5300	0.0102	14.4500	0.0173
				+40		10.7000	0.0128	-10.5900	-0.0127
				+30		8.0500	0.0096	6.0700	0.0073
				+20		7.8500	0.0094	-10.8000	-0.0129
				+10		10.6600	0.0127	-9.9000	-0.0118
				0		9.9000	0.0118	-10.0400	-0.0120
				-10		9.1100	0.0109	17.7500	0.0212
				-20		6.9200	0.0083	-7.7200	-0.0092
				-30		8.1400	0.0097	6.9200	0.0083
				25		4.37	7.0500	0.0084	7.2300
				25	3.23	8.1600	0.0098	7.2800	0.0087

Band	Channel #	Freq. [MHz]	RBs	Temp. [°C]	Voltage [V]	QPSK		16QAM	
						Freq. Error [Hz]	Freq. Error [ppm]	Freq. Error [Hz]	Freq. Error [ppm]
LTE 7	21100	2535	50	+50	3.8	23.0500	0.0091	-19.7800	-0.0078
				+40		-16.5700	-0.0065	-18.3800	-0.0073
				+30		18.1200	0.0071	19.6400	0.0077
				+20		-17.5500	-0.0069	24.1800	0.0095
				+10		17.8000	0.0070	23.7500	0.0094
				0		-17.4700	-0.0069	-23.7900	-0.0094
				-10		-19.2400	-0.0076	-23.8200	-0.0094
				-20		22.1400	0.0087	-18.4800	-0.0073
				-30		23.7300	0.0094	27.5200	0.0109
				25	4.37	17.3200	0.0068	17.4500	0.0069
				25	3.23	18.3200	0.0072	24.4600	0.0096

Band	Channel #	Freq. [MHz]	RBs	Temp. [°C]	Voltage [V]	QPSK		16QAM	
						Freq. Error [Hz]	Freq. Error [ppm]	Freq. Error [Hz]	Freq. Error [ppm]
LTE 12	23095	707.5	50	+50	3.8	7.7200	0.0109	-10.4000	-0.0147
				+40		9.1800	0.0130	15.5500	0.0220
				+30		8.2400	0.0116	9.0100	0.0127
				+20		9.4400	0.0133	6.7100	0.0095
				+10		8.4700	0.0120	13.3600	0.0189
				0		8.9700	0.0127	14.8100	0.0209
				-10		5.7800	0.0082	11.8400	0.0167
				-20		5.9400	0.0084	6.6100	0.0093
				-30		7.6700	0.0108	5.6500	0.0080
				25	4.37	12.5300	0.0177	13.2900	0.0188
				25	3.23	5.0500	0.0071	7.7200	0.0109

Band	Channel #	Freq. [MHz]	RBs	Temp. [°C]	Voltage [V]	QPSK		16QAM	
						Freq. Error [Hz]	Freq. Error [ppm]	Freq. Error [Hz]	Freq. Error [ppm]
LTE 13	23230	782	50	+50	3.8	-4.7200	-0.0060	8.6400	0.0110
				+40		7.2700	0.0093	6.2200	0.0080
				+30		9.1100	0.0116	-11.3000	-0.0145
				+20		7.0000	0.0090	-9.2000	-0.0118
				+10		8.8400	0.0113	-8.9100	-0.0114
				0		7.1000	0.0091	-9.6000	-0.0123
				-10		7.2700	0.0093	-12.2300	-0.0156
				-20		8.9300	0.0114	-8.1400	-0.0104
				-30		9.1600	0.0117	14.8600	0.0190
				25	4.37	10.0600	0.0129	12.5900	0.0161
				25	3.23	9.2400	0.0118	6.4500	0.0082

B.6 Radiated spurious emission

B.6.1 Standard references

BAND	FCC part	RSS part	Limits
LTE 2	2. 1051, 24.238	133-ch.6.5.1	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
LTE 4	2. 1051, 27.53	139-ch.6.5	The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ dB
LTE 5	2. 1051, 22.917	132-ch.5.5	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
LTE 7	2.1051, 27.53 (m)(4)	199-ch.4.6	For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log(P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log(P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log(P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than $43 + 10 \log(P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log(P)$ dB at or below 2490.5 MHz
LTE 12(17)	2.1051, 27.53 (g)	130-ch.4.6	The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ dB
LTE 13	2.1051, 27.53 (c)	130-ch.4.6	On any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log(P)$ dB On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than $65 + 10 \log(P)$ dB in a 6.25 kHz band segment, for mobile and portable stations.

B.6.2 Test procedure

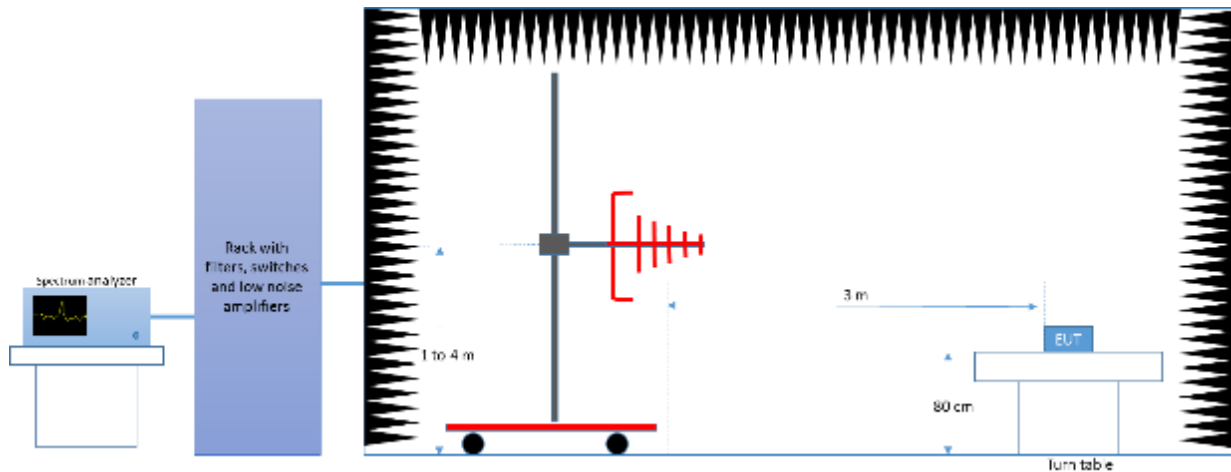
The setup below was used to measure the radiated spurious emissions. The test was done following the FCC OET KDB 971168 D01 v02r02 § 7. The receiver's resolution bandwidth was set to 1MHz and the video bandwidth set to 3MHz for all radiated measurements.

Depending of the frequency range and bands being tested, different antennas and filters were used.

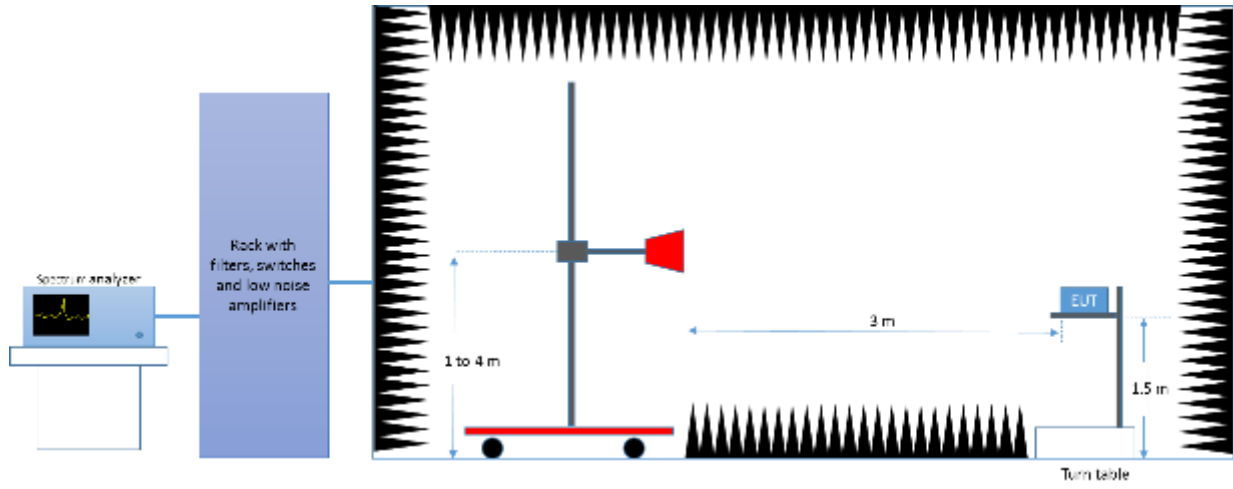
The final measurement is done by varying the antenna height from 1 to 4 meters, the EUT azimuth over 360° and for both Vertical and Horizontal polarizations. The substitution method according to the ANSI/TIA-603-D was used to determine the spurious level identified during the exploratory radiated emissions measurements.

The radiated spurious emission was measured on the worst case configuration selected from the chapter B.1 and on the low, middle and high channel.

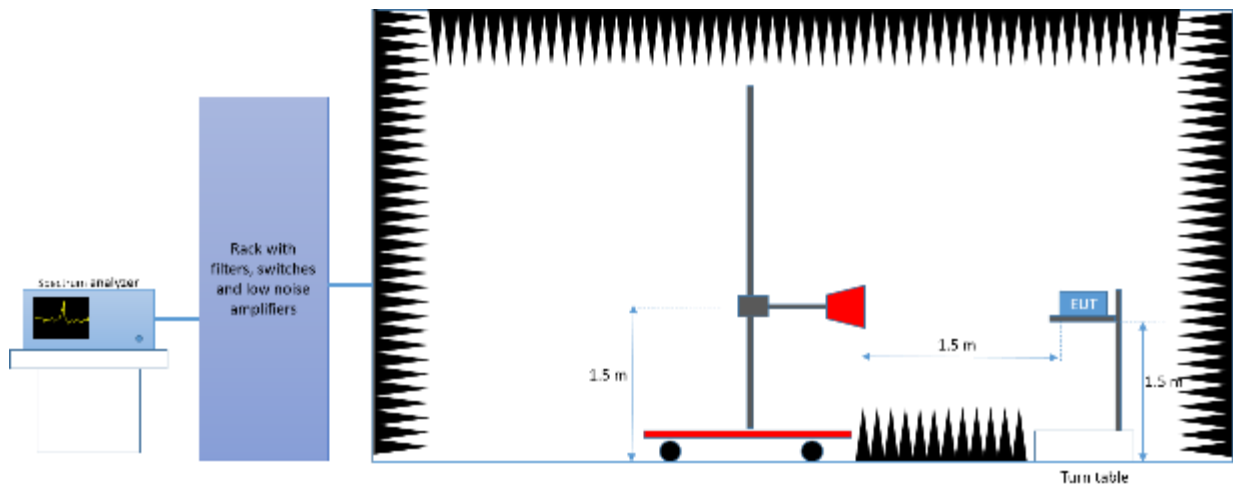
Radiated Setup < 1GHz



Radiated Setup Frequency range 1 GHz to 18 GHz

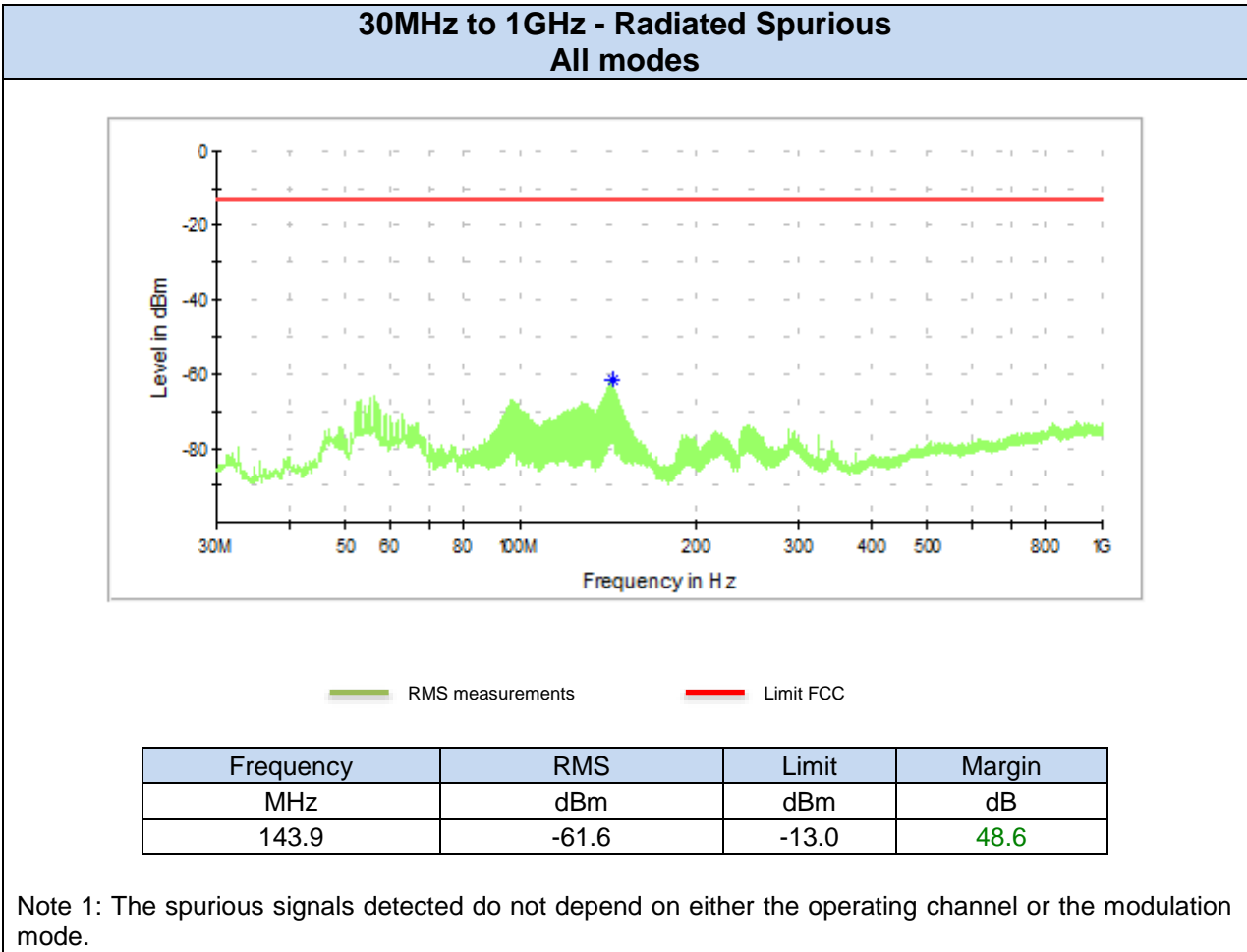


Radiated Setup > 18GHz

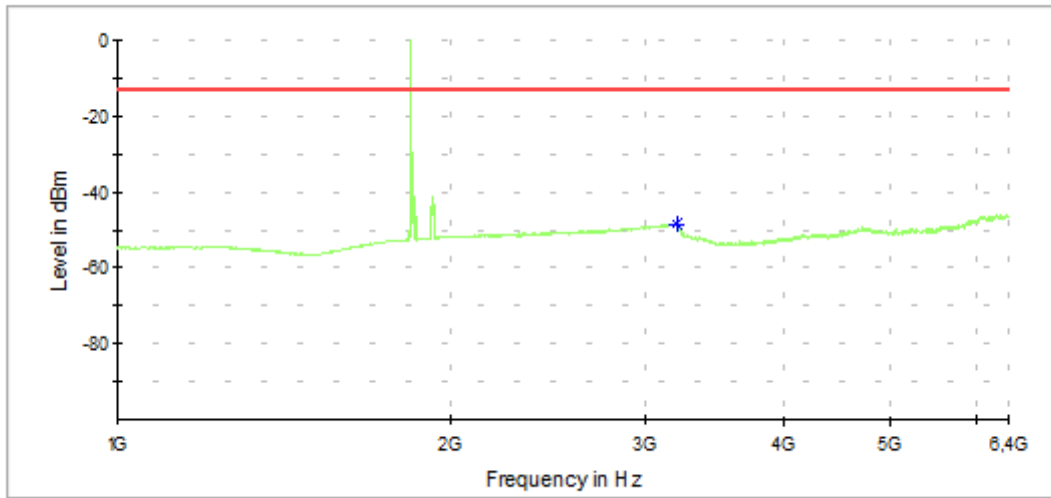


B.6.3 Test Results

LTE 2



**1GHz to 6.4GHz - Radiated Spurious
LTE 2 - QPSK - Low channel 18600**



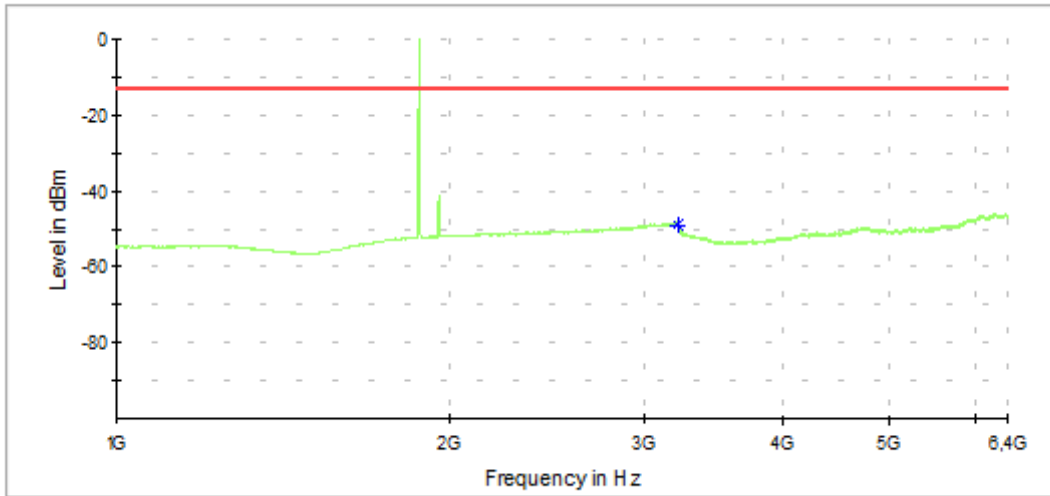
— RMS measurements — Limit FCC

Frequency	RMS	Limit	Margin
MHz	dBm	dBm	dB
3212.8	-48.6	-13.0	35.6

Note1: the peak showed above the limit is the fundamental emission

Note2: the peak at 1930MHz corresponds to the downlink frequency

**1GHz to 6.4GHz - Radiated Spurious
LTE 2 - QPSK - Mid channel 18900**

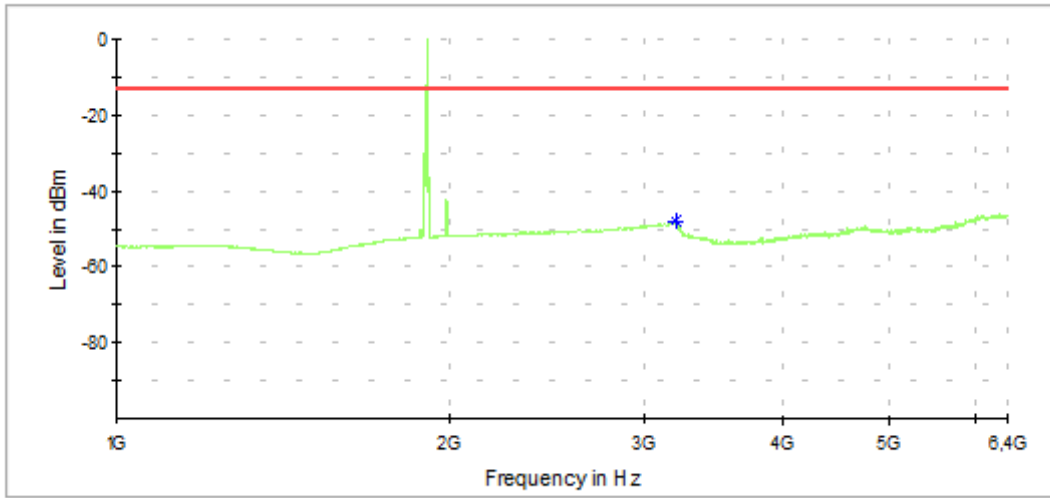


— RMS measurements — Limit FCC

Frequency	RMS	Limit	Margin
MHz	dBm	dBm	dB
3215.3	-48.9	-13.0	35.9

Note1: the peak showed above the limit is the fundamental emission
 Note2: the peak at 1960MHz corresponds to the downlink frequency

**1GHz to 6.4GHz - Radiated Spurious
LTE 2 - QPSK - High channel 19199**



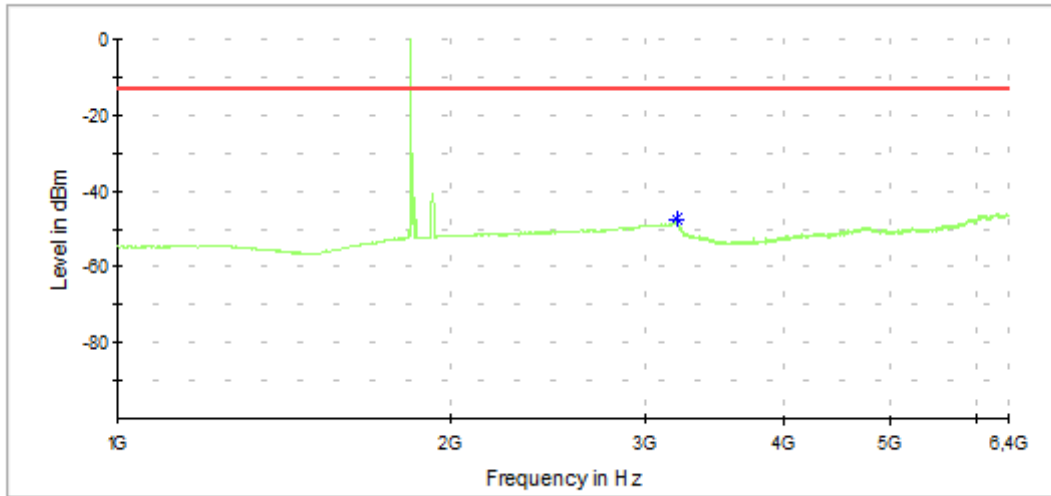
— RMS measurements — Limit FCC

Frequency	RMS	Limit	Margin
MHz	dBm	dBm	dB
3203	-47.8	-13.0	34.8

Note1: the peak showed above the limit is the fundamental emission

Note2: the peak at 1990MHz corresponds to the downlink frequency

**1GHz to 6.4GHz - Radiated Spurious
LTE 2 - 16 QAM - Low channel 18600**



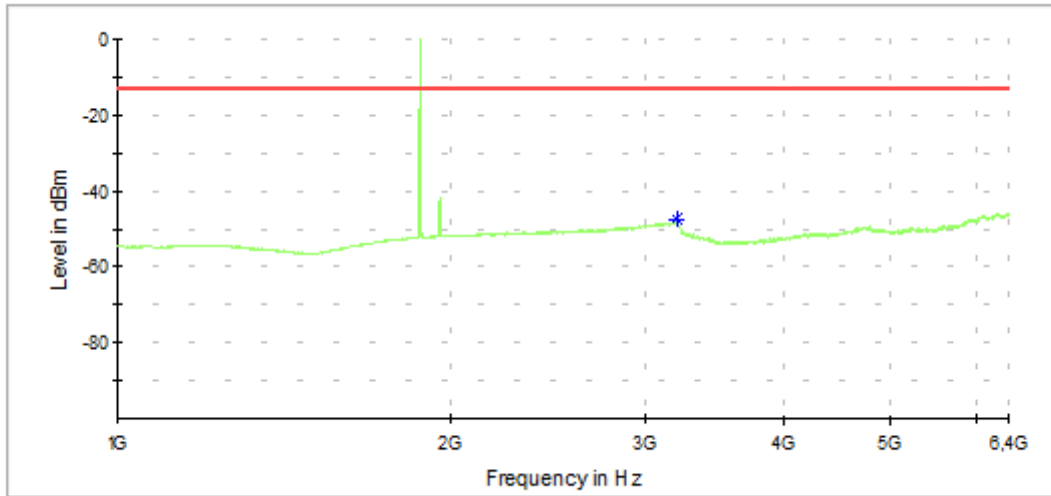
— RMS measurements — Limit FCC

Frequency	RMS	Limit	Margin
MHz	dBm	dBm	dB
3205	-47.2	-13.0	34.2

Note1: the peak showed above the limit is the fundamental emission

Note2: the peak at 1930MHz corresponds to the downlink frequency

**1GHz to 26.5GHz - Radiated Spurious
LTE 2 - 16QAM - Mid channel 18900**



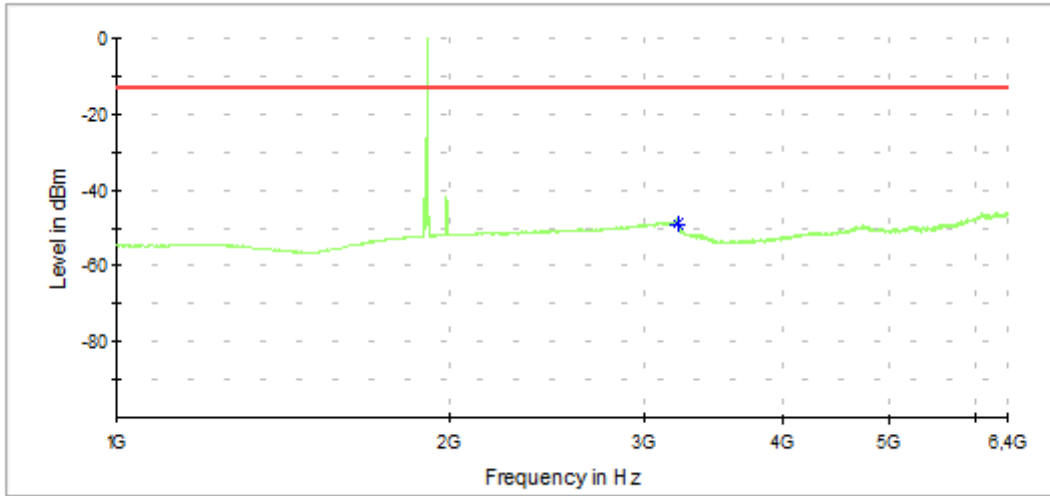
— RMS measurements — Limit FCC

Frequency	RMS	Limit	Margin
MHz	dBm	dBm	dB
3201	-47.5	-13.0	34.5

Note1: the peak showed above the limit is the fundamental emission

Note2: the peak at 1960MHz corresponds to the downlink frequency

**1GHz to 6.4GHz - Radiated Spurious
LTE 2 - 16 QAM - High channel 19199**

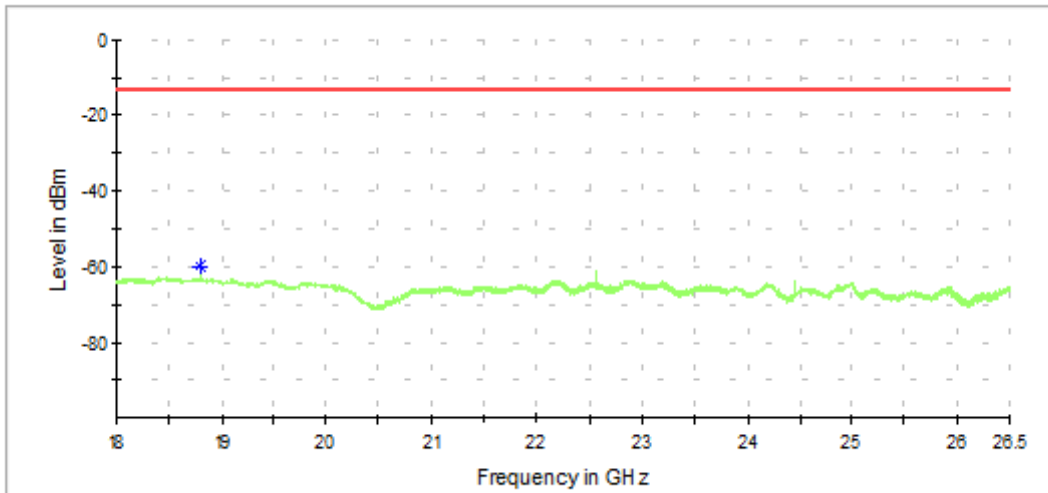
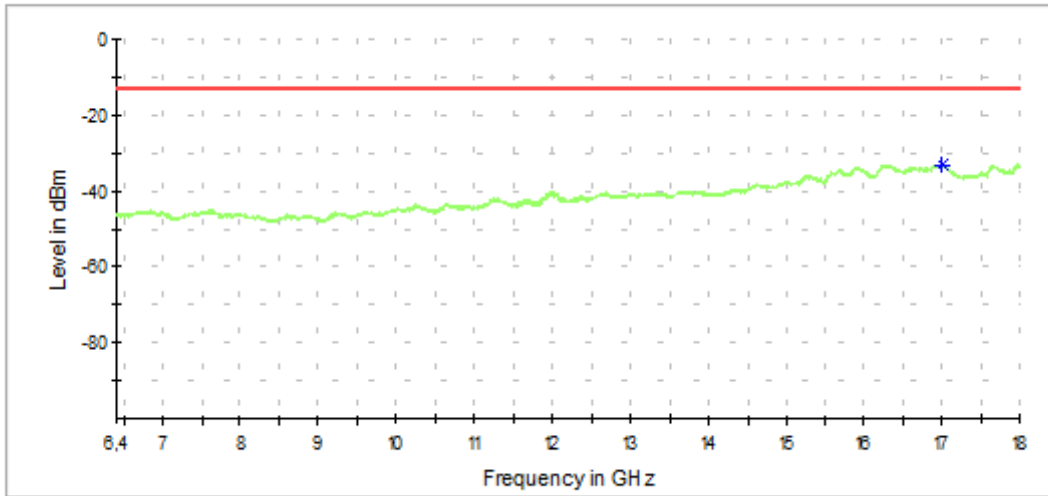


— RMS measurements — Limit FCC

Frequency	RMS	Limit	Margin
MHz	dBm	dBm	dB
3214.8	-49.0	-13.0	36.0

Note1: the peak showed above the limit is the fundamental emission
 Note2: the peak at 1990MHz corresponds to the downlink frequency

6.4GHz to 26.5GHz - Radiated Spurious All modes



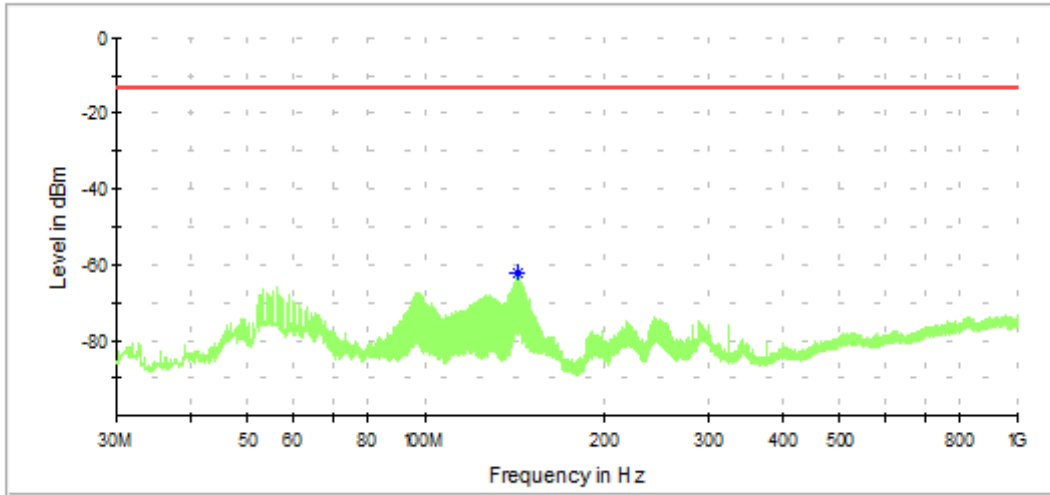
— RMS measurements — Limit FCC

Frequency	RMS	Limit	Margin
MHz	dBm	dBm	dB
16994.6	-33.0	-13.0	20.0
18800.9	-59.7	-13.0	46.7

Note 1: The spurious signals detected do not depend on either the operating channel or the modulation mode.

LTE 4

**30MHz to 1GHz - Radiated Spurious
All modes**

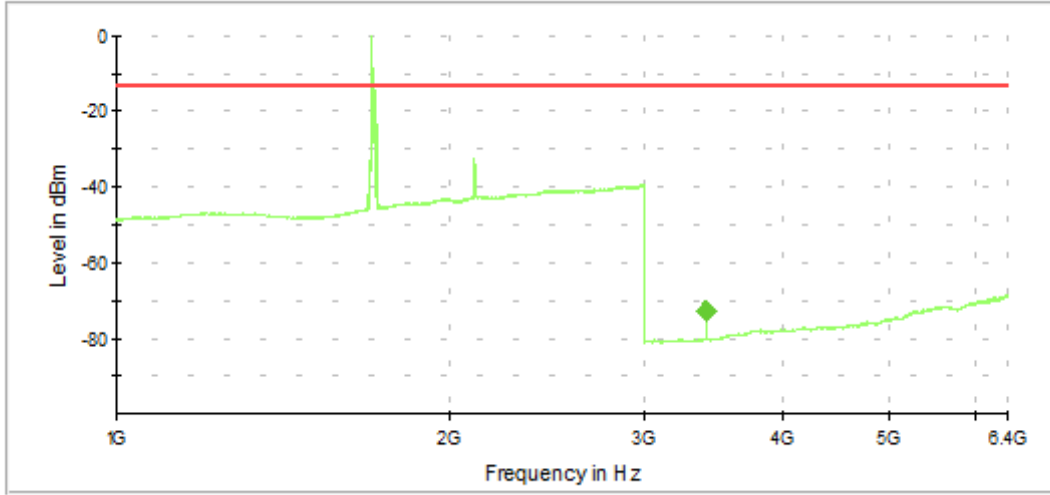


— RMS measurements — Limit FCC

Frequency	RMS	Limit	Margin
MHz	dBm	dBm	dB
143.2	-62.0	-13.0	49.0

Note 1: The spurious signals detected do not depend on either the operating channel or the modulation mode.

**1GHz to 6.4GHz - Radiated Spurious
LTE 4- QPSK - Low channel 19950**



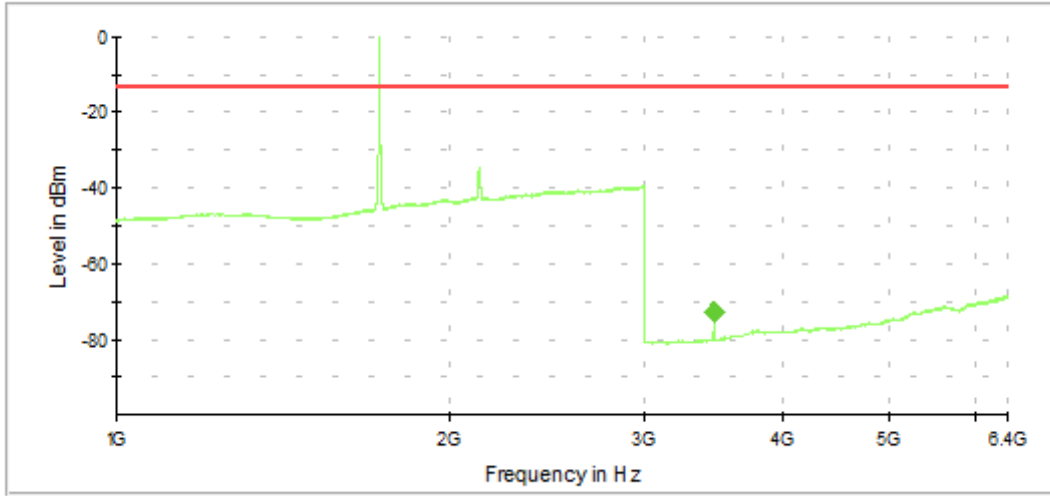
— RMS measurements — Limit FCC

Frequency	RMS	Limit	Margin
MHz	dBm	dBm	dB
3411.1	-72.4	-13.0	59.4

Note1: the peak showed above the limit is the fundamental emission

Note2: the peak at 2110MHz corresponds to the downlink frequency

**1GHz to 6.4GHz - Radiated Spurious
LTE 4 - QPSK - Mid channel 20175**

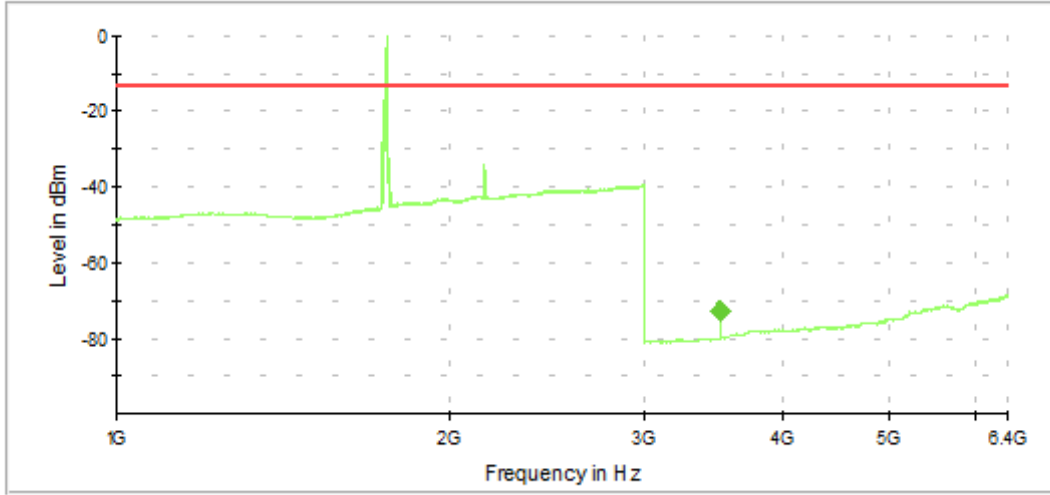


— RMS measurements — Limit FCC

Frequency MHz	RMS dBm	Limit dBm	Margin dB
143.2	-62.0	-13.0	49.0
3465.2	-72.5	-13.0	59.5

Note1: the peak showed above the limit is the fundamental emission
 Note2: the peak at 2132.5MHz corresponds to the downlink frequency

**1GHz to 6.4GHz - Radiated Spurious
LTE 4 - QPSK - High channel 20399**



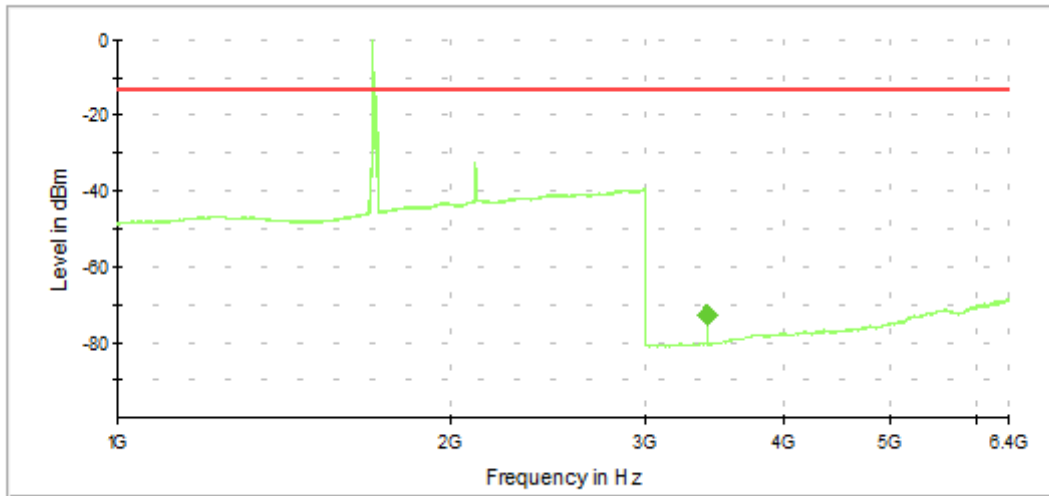
— RMS measurements — Limit FCC

Frequency	RMS	Limit	Margin
MHz	dBm	dBm	dB
3518.5	-72.8	-13.0	59.8

Note1: the peak showed above the limit is the fundamental emission

Note2: the peak at 2155MHz corresponds to the downlink frequency

**1GHz to 6.4GHz - Radiated Spurious
LTE 4 - 16QAM - Low channel 19950**



— RMS measurements

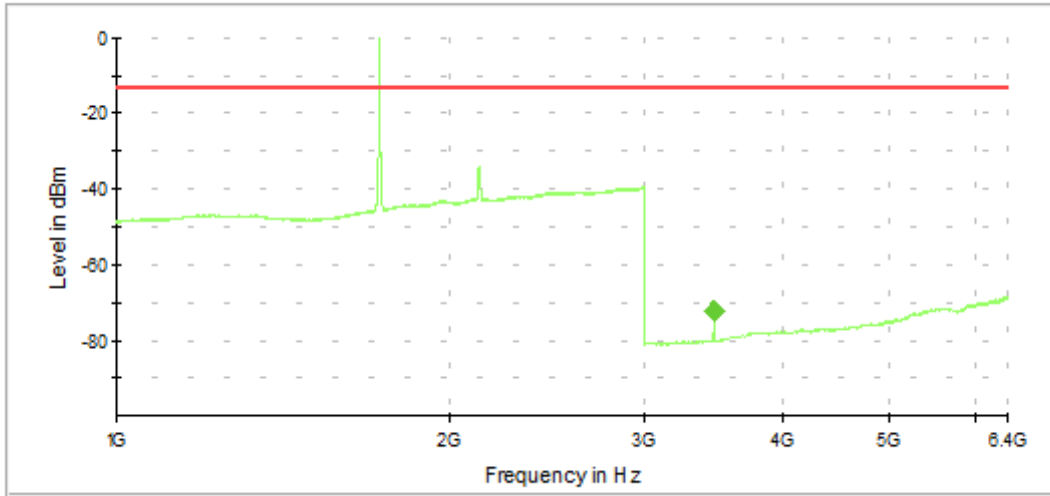
— Limit FCC

Frequency	RMS	Limit	Margin
MHz	dBm	dBm	dB
3411.2	-72.9	-13.0	59.9

Note1: the peak showed above the limit is the fundamental emission

Note2: the peak at 2110MHz corresponds to the downlink frequency

**1GHz to 6.4GHz - Radiated Spurious
LTE 4 - 16QAM - Mid channel 20175**

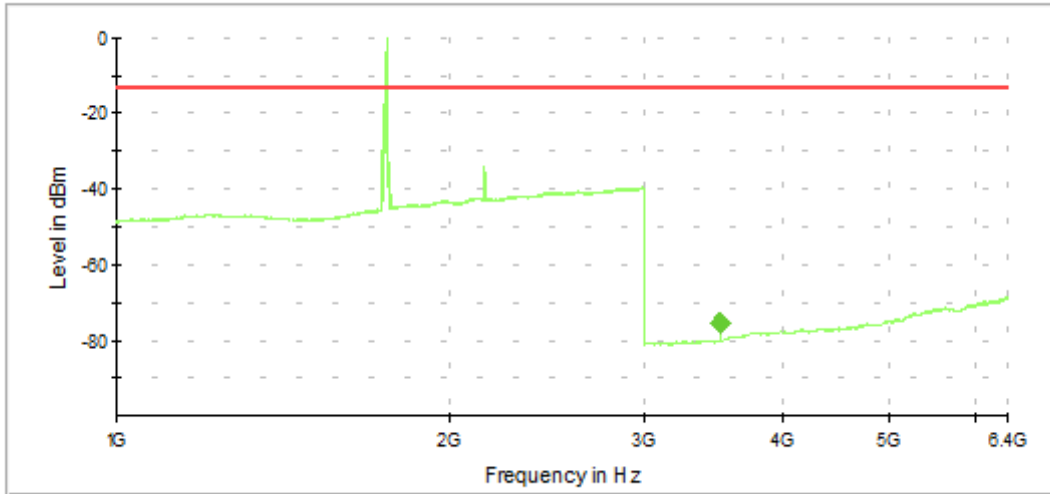


— RMS measurements — Limit FCC

Frequency	RMS	Limit	Margin
MHz	dBm	dBm	dB
3465.2	-72.4	-13.0	59.4

Note1: the peak showed above the limit is the fundamental emission
 Note2: the peak at 2132.5MHz corresponds to the downlink frequency

**1GHz to 6.4GHz - Radiated Spurious
LTE 4 - 16QAM - High channel 20399**

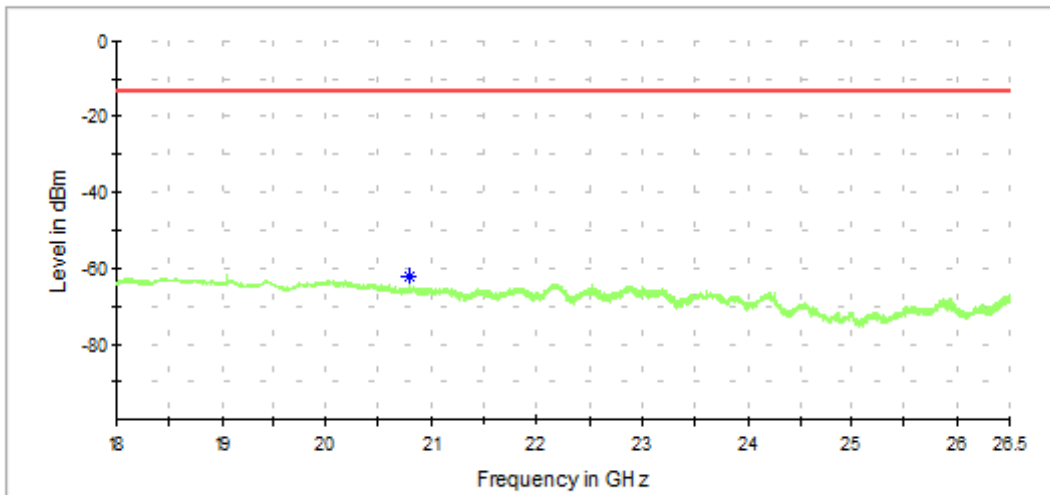
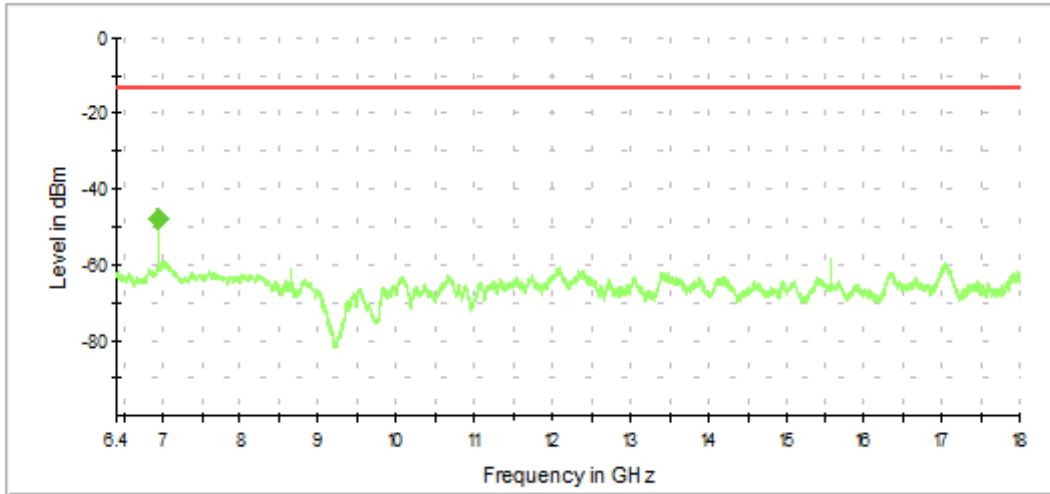


— RMS measurements — Limit FCC

Frequency	RMS	Limit	Margin
MHz	dBm	dBm	dB
3518.7	-75.3	-13.0	62.3

Note1: the peak showed above the limit is the fundamental emission
 Note2: the peak at 2155MHz corresponds to the downlink frequency

**6.4GHz to 26.5GHz - Radiated Spurious
All modes**



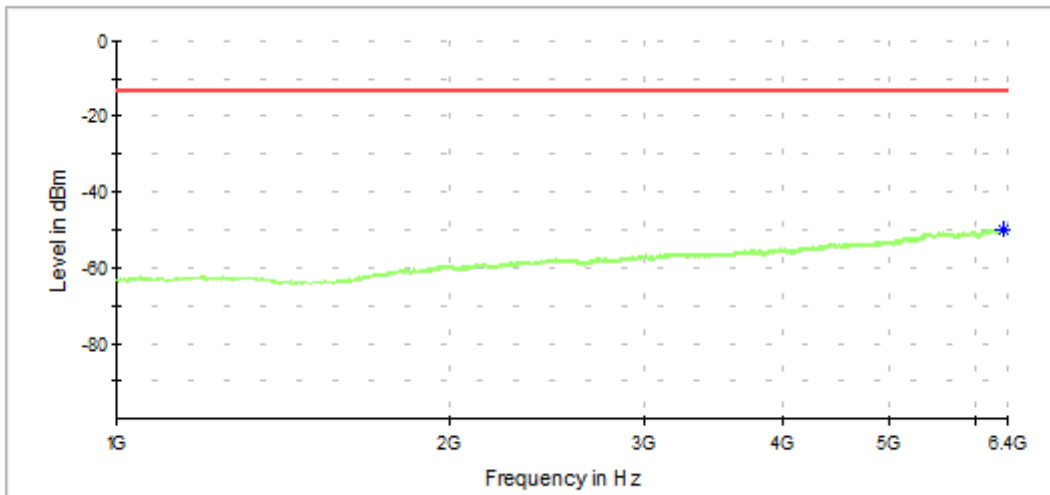
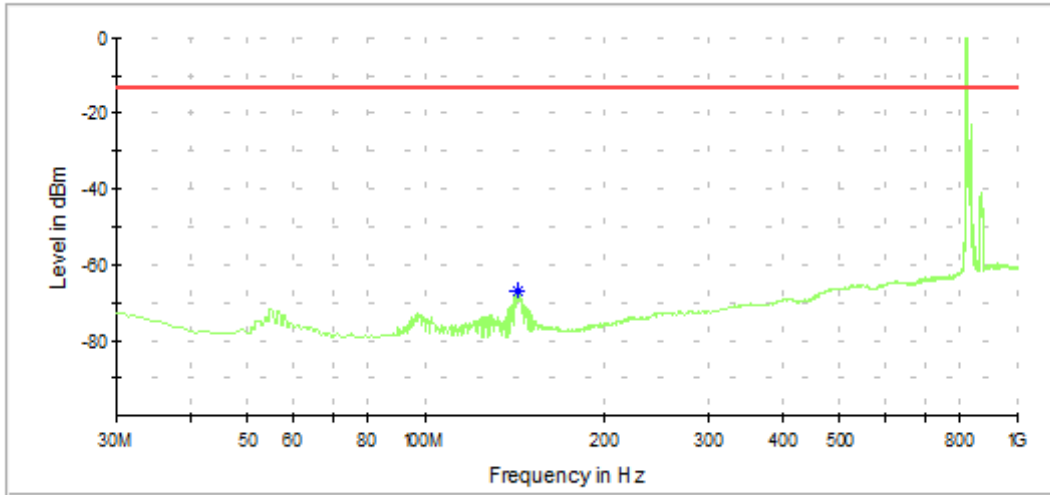
— RMS measurements
 — Limit FCC

Frequency MHz	RMS dBm	Limit dBm	Margin dB
6930.3	-47.7	-13.0	34.7
20789.9	-61.9	-13.0	48.9

Note 1: The spurious signals detected do not depend on either the operating channel or the modulation mode.

LTE 5(19)

**30 MHz to 6.4GHz - Radiated Spurious
LTE 5 - QPSK - Low channel 20400**



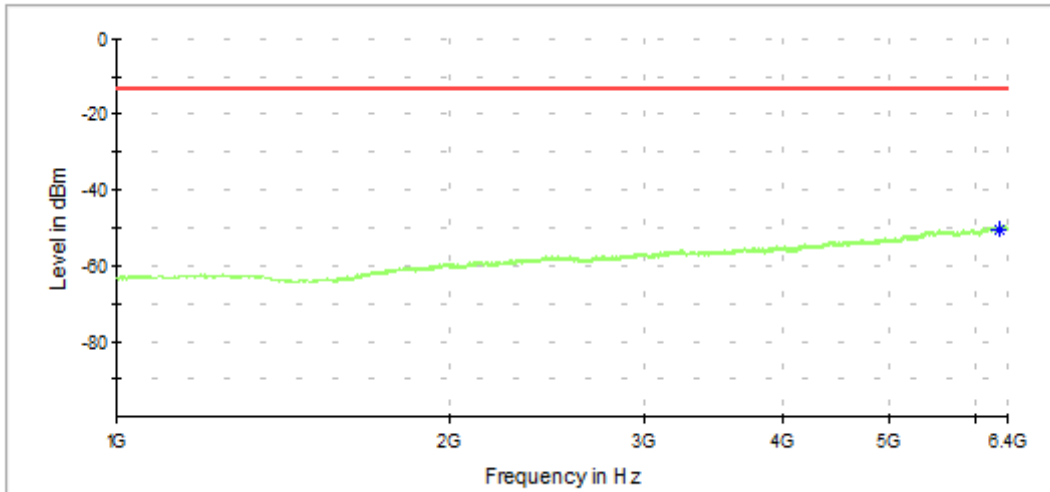
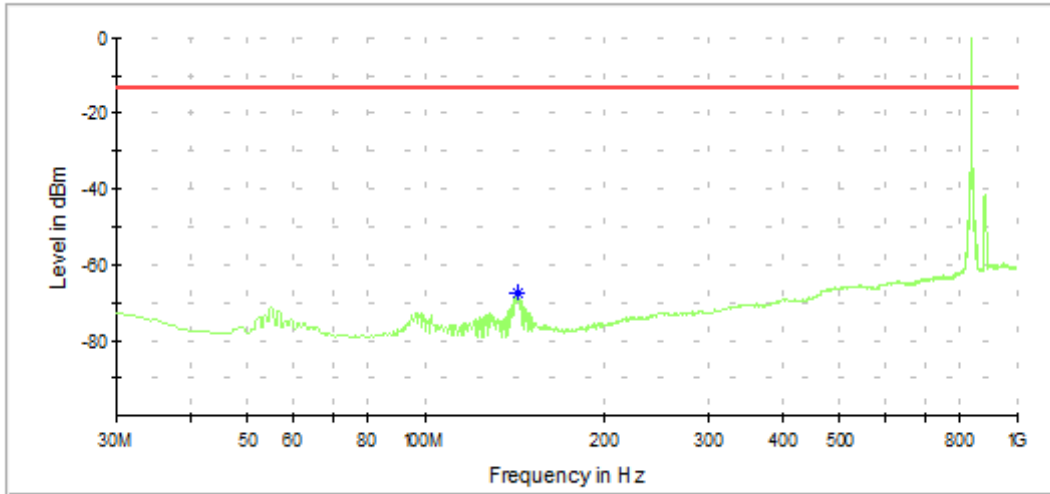
— RMS measurements — Limit FCC

Frequency	RMS	Limit	Margin
MHz	dBm	dBm	dB
143.0	-66.7	-13.0	53.7
6357.3	-50.0	-13.0	37.0

Note1: the peak showed above the limit is the fundamental emission

Note2: the peak at 869MHz corresponds to the downlink frequency

**30MHz to 6.4GHz - Radiated Spurious
LTE 5 - QPSK - Mid channel 20525**



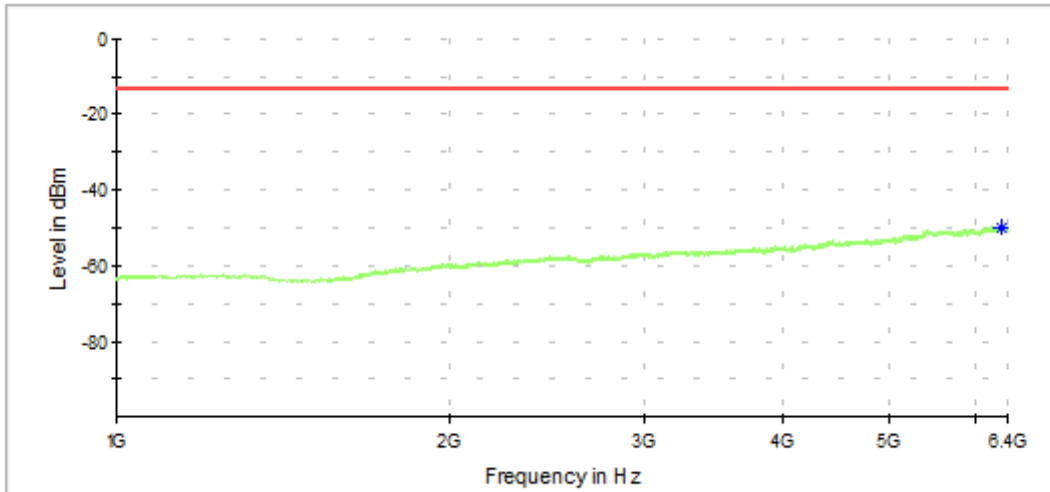
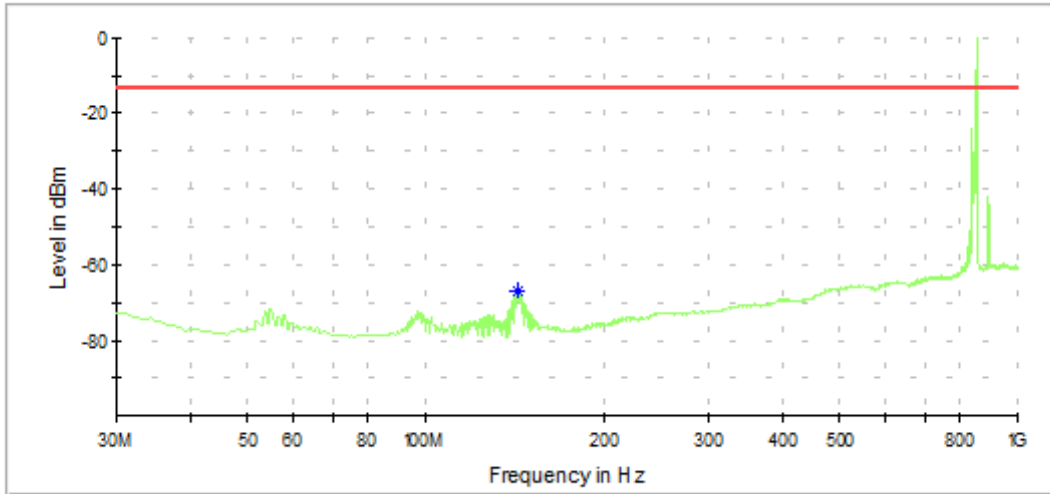
— RMS measurements — Limit FCC

Frequency MHz	RMS dBm	Limit dBm	Margin dB
143.0	-67.6	-13.0	54.6
6298.8	-50.6	-13.0	37.6

Note1: the peak showed above the limit is the fundamental emission

Note2: the peak at 881.5MHz corresponds to the downlink frequency

**30MHz to 6.4GHz - Radiated Spurious
LTE 5 - QPSK - High channel 20649**



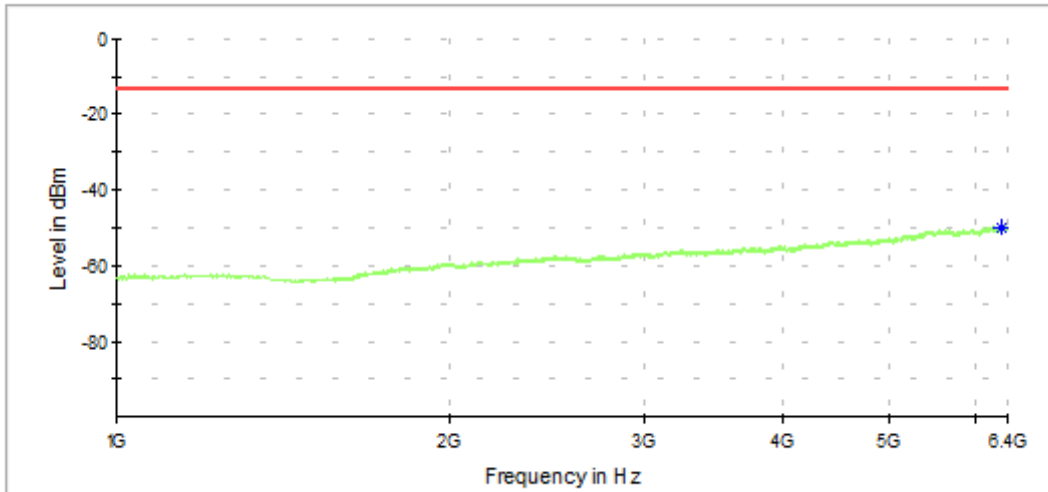
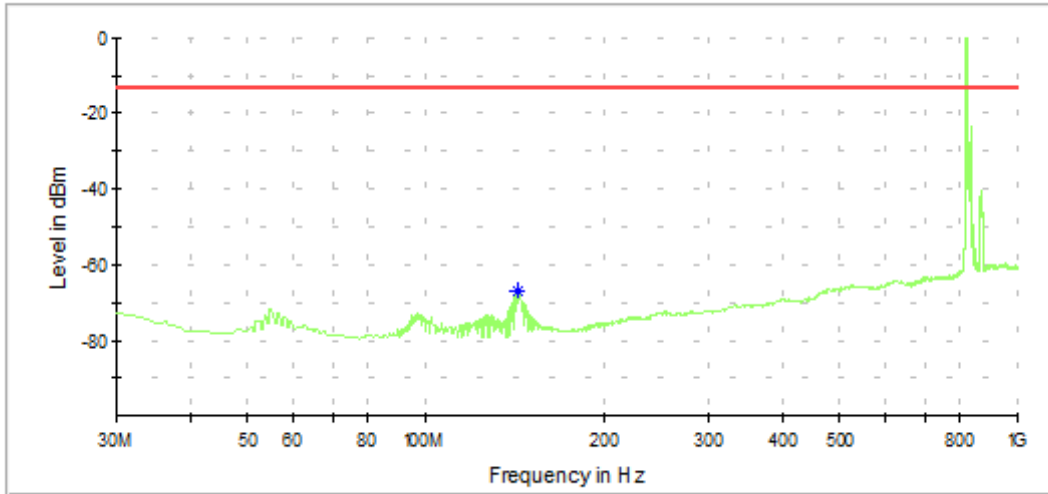
— RMS measurements — Limit FCC

Frequency MHz	RMS dBm	Limit dBm	Margin dB
143.0	-66.8	-13.0	53.8
6318.6	-49.9	-13.0	36.9

Note1: the peak showed above the limit is the fundamental emission

Note2: the peak at 894MHz corresponds to the downlink frequency

30MHz to 6.4GHz - Radiated Spurious LTE 5 - 16 QAM - Low channel 20400



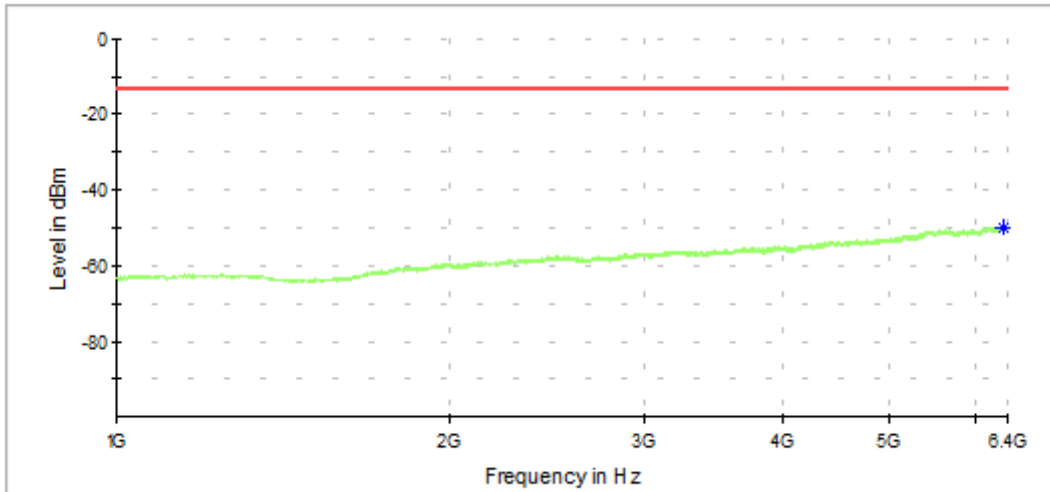
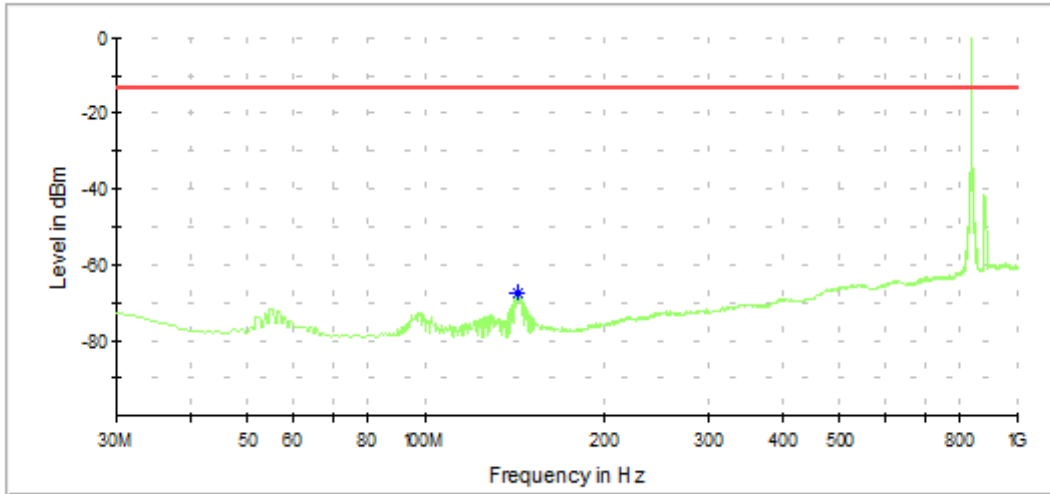
— RMS measurements — Limit FCC

Frequency MHz	RMS dBm	Limit dBm	Margin dB
143.0	-66.6	-13.0	53.6
6328.0	-50.1	-13.0	37.1

Note1: the peak showed above the limit is the fundamental emission

Note2: the peak at 869MHz corresponds to the downlink frequency

**30MHz to 6.4GHz - Radiated Spurious
LTE 5 - 16QAM - Mid channel 20525**



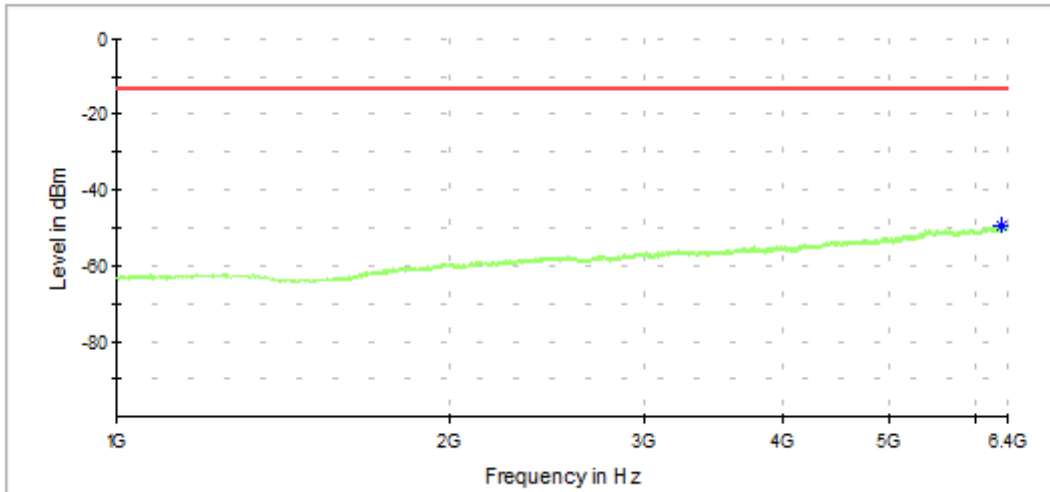
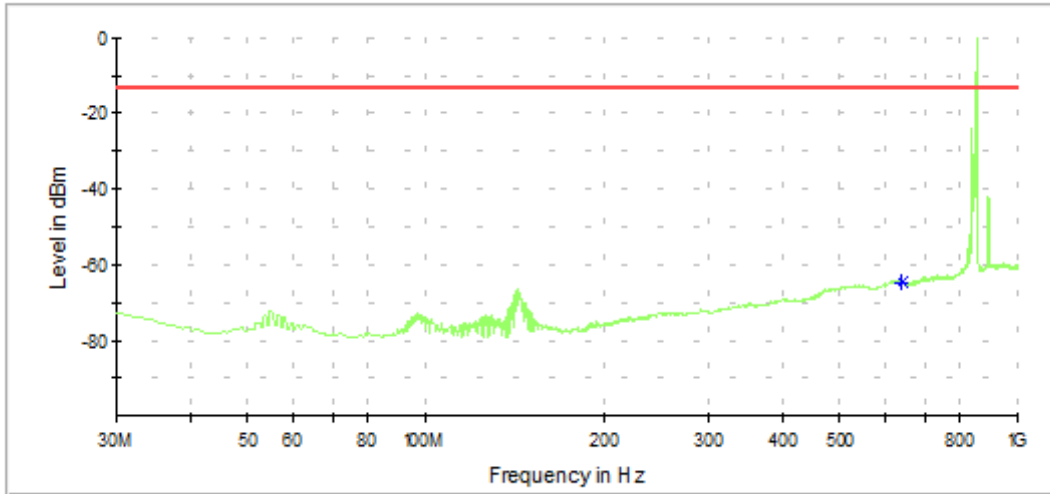
— RMS measurements — Limit FCC

Frequency MHz	RMS dBm	Limit dBm	Margin dB
143.0	-67.4	-13.0	54.4
6358.2	-49.9	-13.0	36.9

Note1: the peak showed above the limit is the fundamental emission

Note2: the peak at 881.5MHz corresponds to the downlink frequency

**30MHz to 6.4GHz - Radiated Spurious
LTE 5 - 16 QAM - High channel 20649**



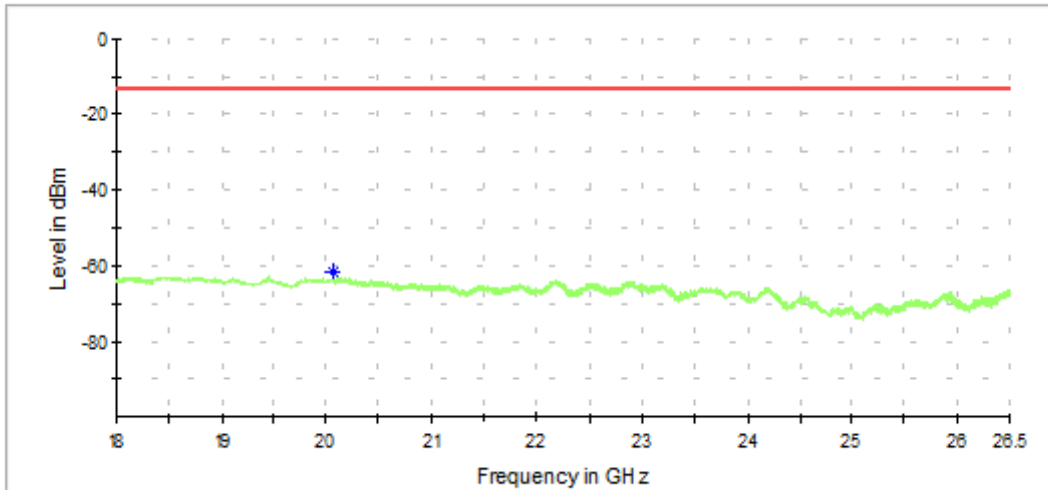
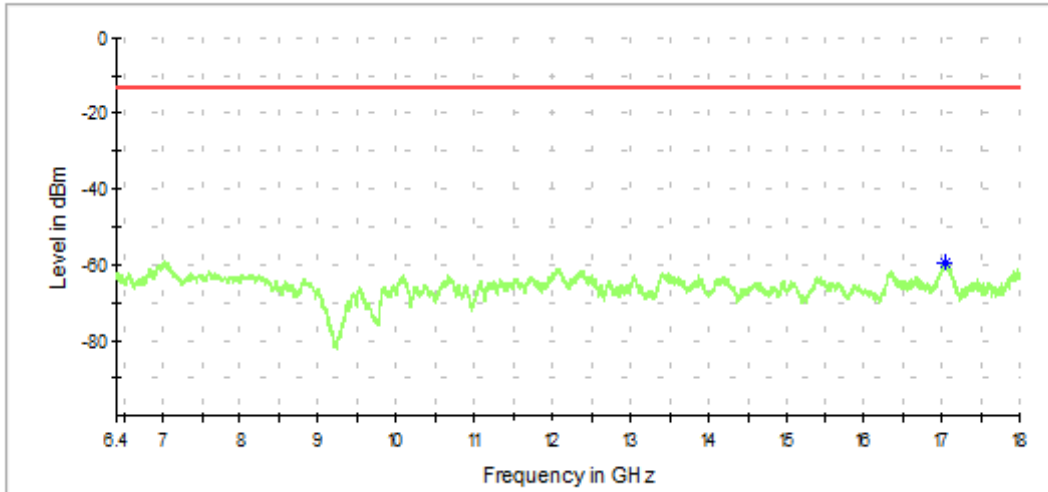
— RMS measurements — Limit FCC

Frequency MHz	RMS dBm	Limit dBm	Margin dB
634.8	-65.0	-13.0	52.0
6320.4	-49.7	-13.0	36.7

Note1: the peak showed above the limit is the fundamental emission

Note2: the peak at 894MHz corresponds to the downlink frequency

6.4GHz to 26.5GHz - Radiated Spurious All modes

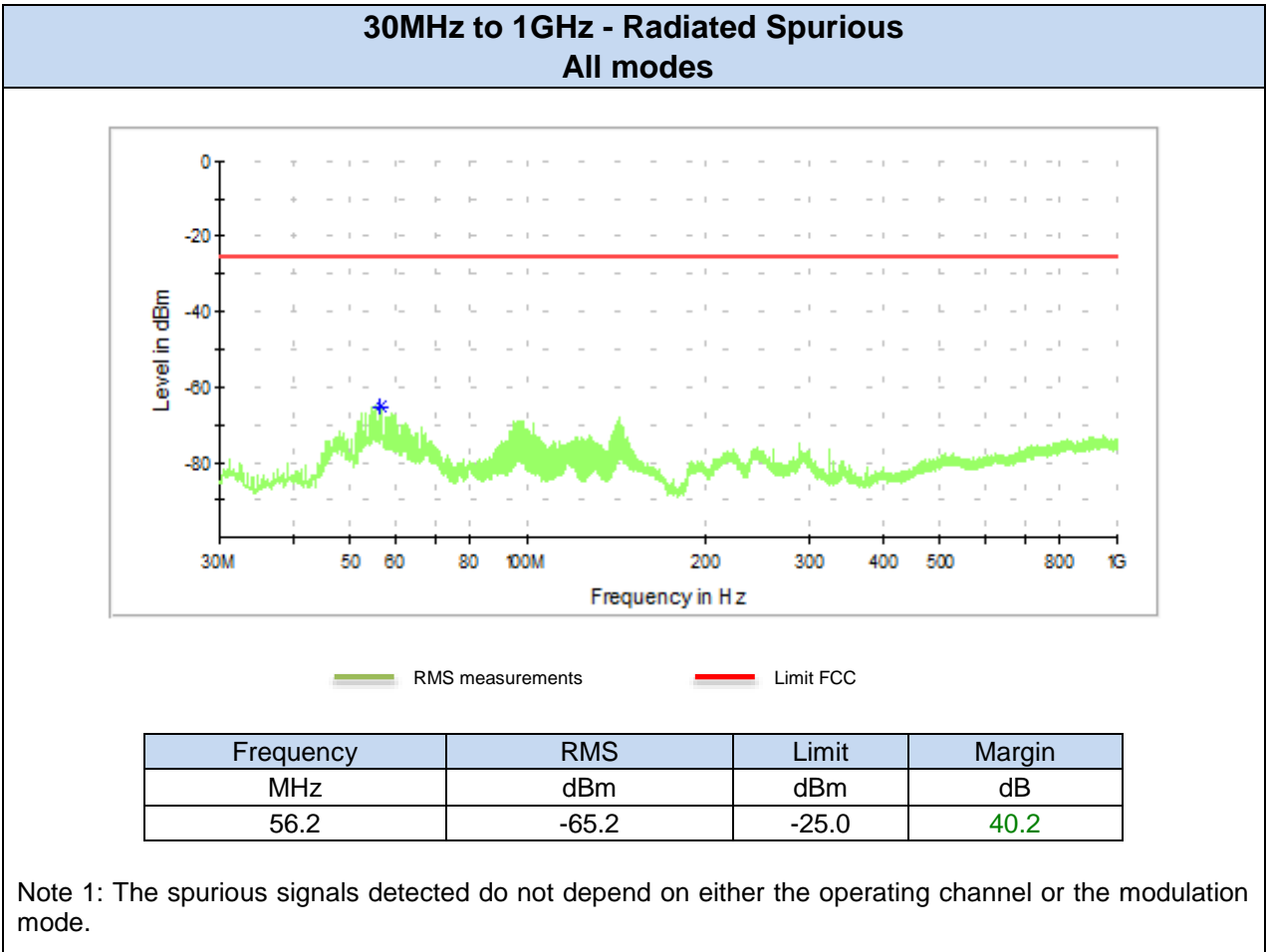


— RMS measurements — Limit FCC

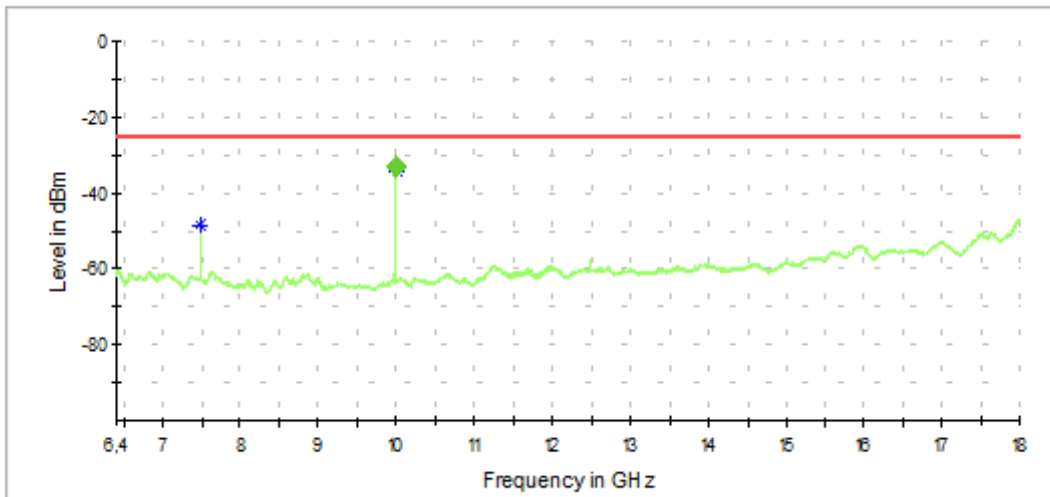
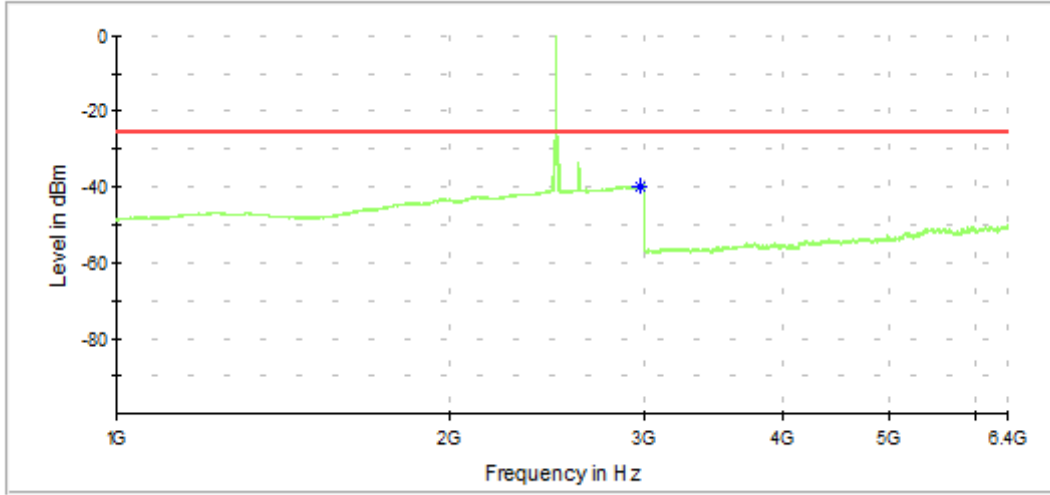
Frequency MHz	RMS dBm	Limit dBm	Margin dB
17053.2	-59.6	-13.0	46.6
20075.9	-61.4	-13.0	48.4

Note 1: The spurious signals detected do not depend on either the operating channel or the modulation mode.

LTE 7



**1GHz to 18GHz - Radiated Spurious
LTE 7 - QPSK - Low channel 20750**



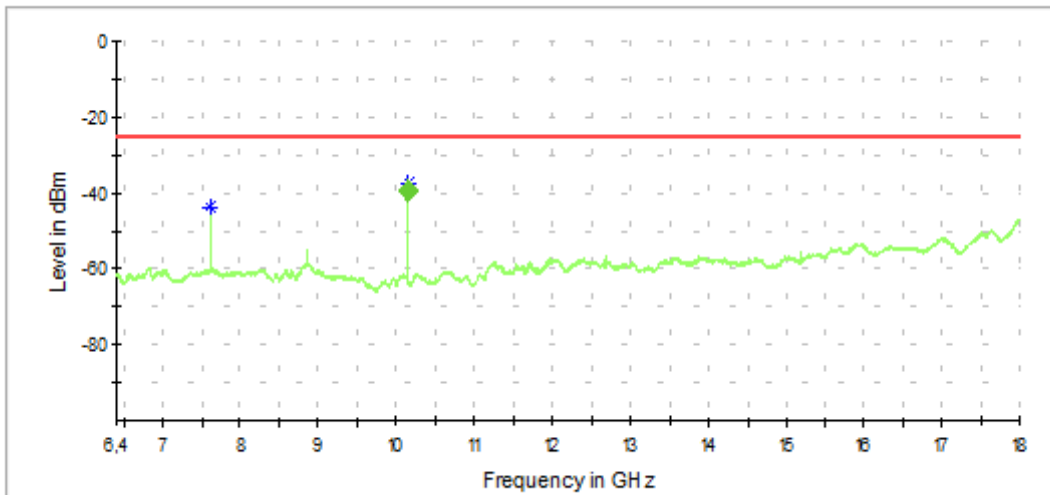
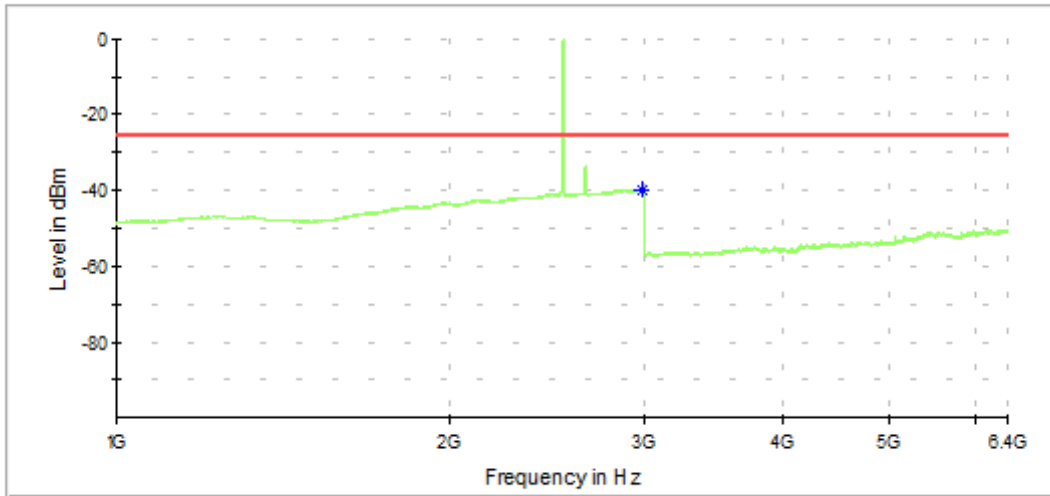
— RMS measurements — Limit FCC

Frequency	RMS	Limit	Margin
MHz	dBm	dBm	dB
2973.8	-39.9	-25.0	14.9
7486.5	-48.6	-25.0	23.6
9982.5	-33.2	-25.0	8.2

Note1: the peak showed above the limit is the fundamental emission

Note2: the peak at 2620MHz corresponds to the downlink frequency

**1GHz to 18GHz - Radiated Spurious
LTE 7 - QPSK - Mid channel 21100**



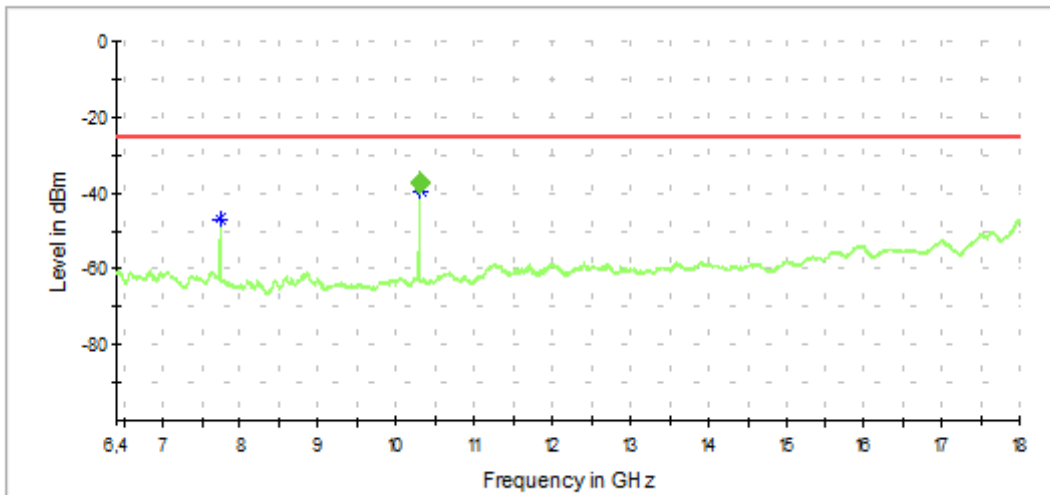
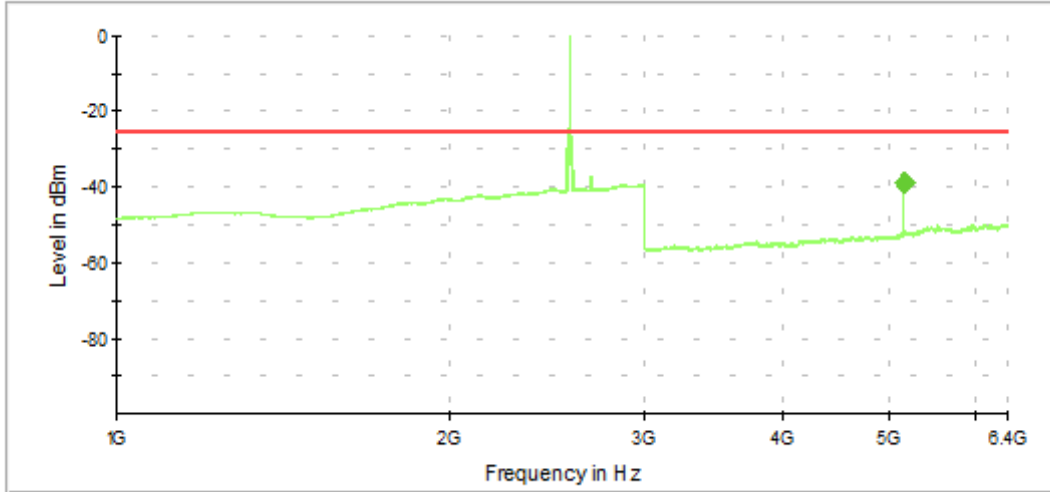
— RMS measurements — Limit FCC

Frequency	RMS	Limit	Margin
MHz	dBm	dBm	dB
2986.7	-39.9	-25.0	14.9
7605.0	-43.6	-25.0	18.6
10140.4	-38.2	-25.0	13.2

Note1: the peak showed above the limit is the fundamental emission

Note2: the peak at 2655MHz corresponds to the downlink frequency

**1GHz to 18GHz - Radiated Spurious
LTE 7 - QPSK - High channel 21449**

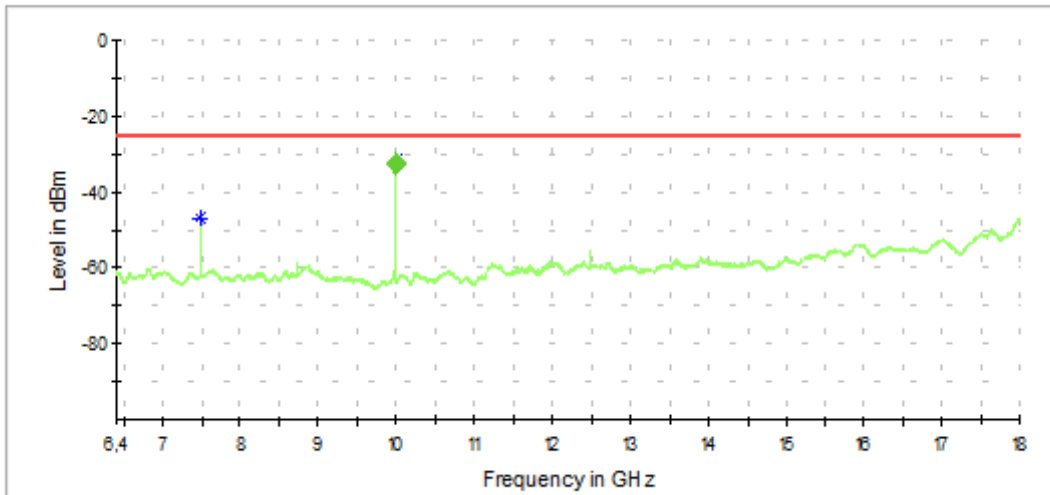
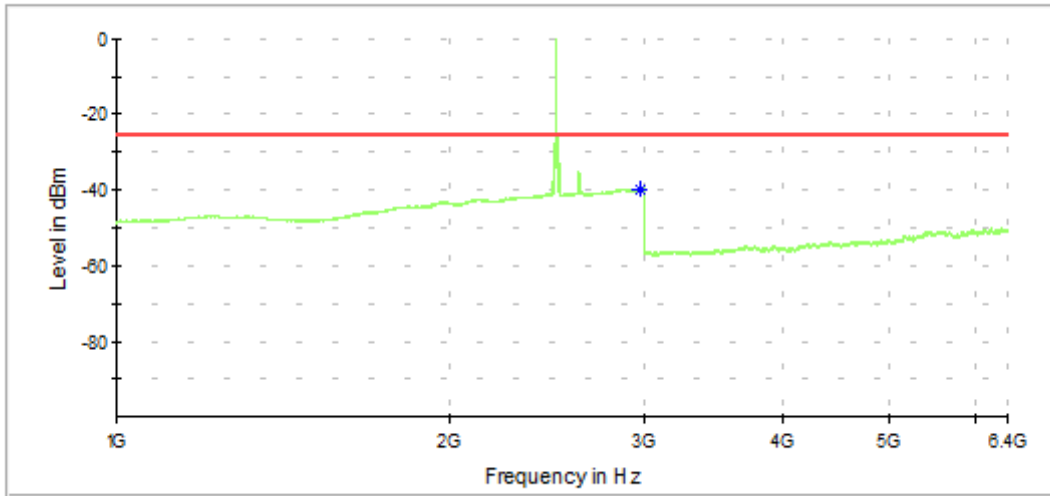


— RMS measurements — Limit FCC

Frequency MHz	RMS dBm	Limit dBm	Margin dB
5148.6	-38.7	-25.0	25.7
7723.0	-46.7	-25.0	21.7
10297.1	-37.3	-25.0	12.3

Note1: the peak showed above the limit is the fundamental emission
 Note2: the peak at 2690MHz corresponds to the downlink frequency

**1GHz to 18GHz - Radiated Spurious
LTE 7 - 16QAM - Low channel 20750**

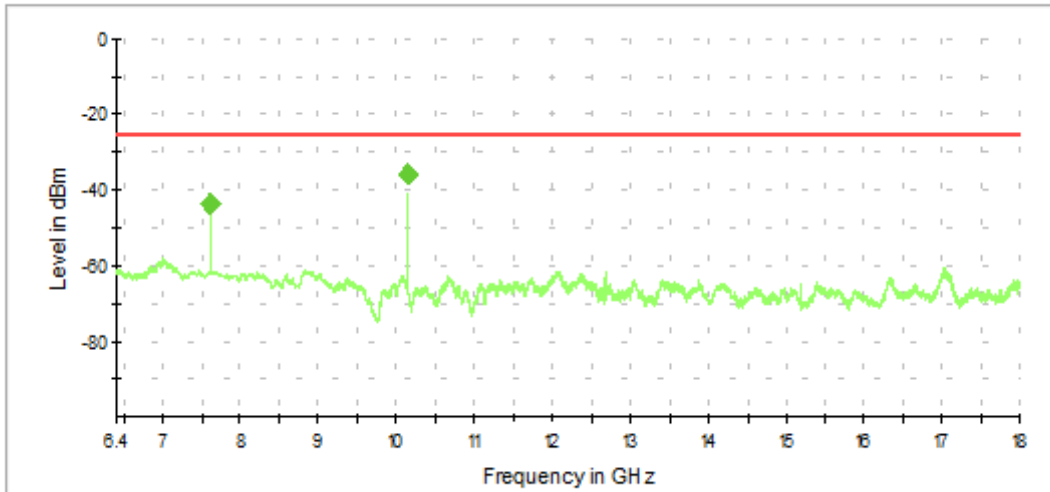
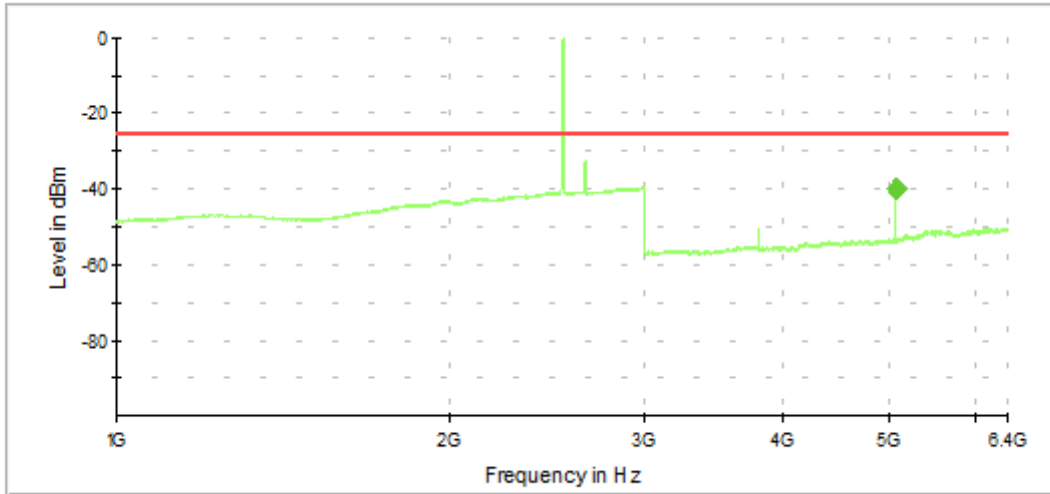


— RMS measurements — Limit FCC

Frequency	RMS	Limit	Margin
MHz	dBm	dBm	dB
2972.4	-40.1	-25.0	15.1
7486.5	-46.7	-25.0	21.7
9982.5	-32.6	-25.0	7.6

Note1: the peak showed above the limit is the fundamental emission
 Note2: the peak at 2620MHz corresponds to the downlink frequency

**1GHz to 18GHz - Radiated Spurious
LTE 7 - 16QAM - Mid channel 21100**

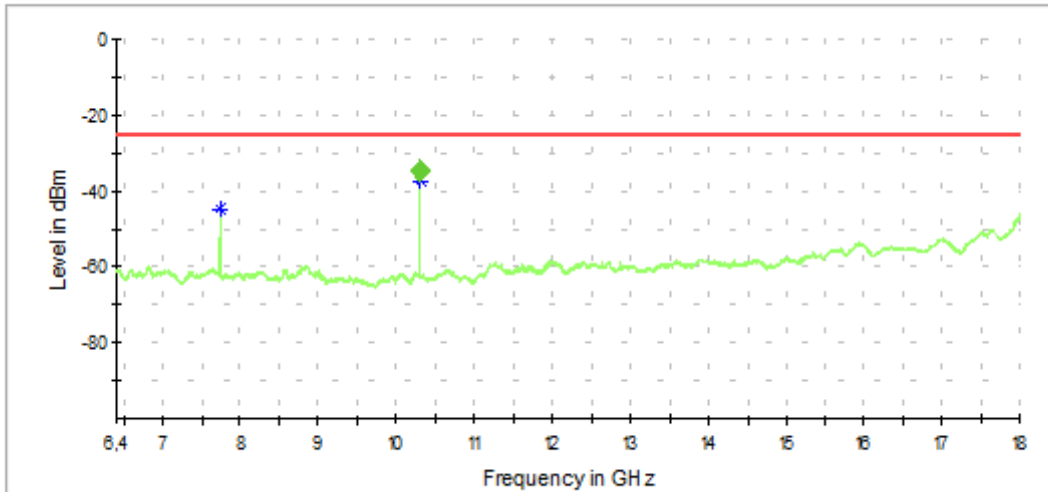
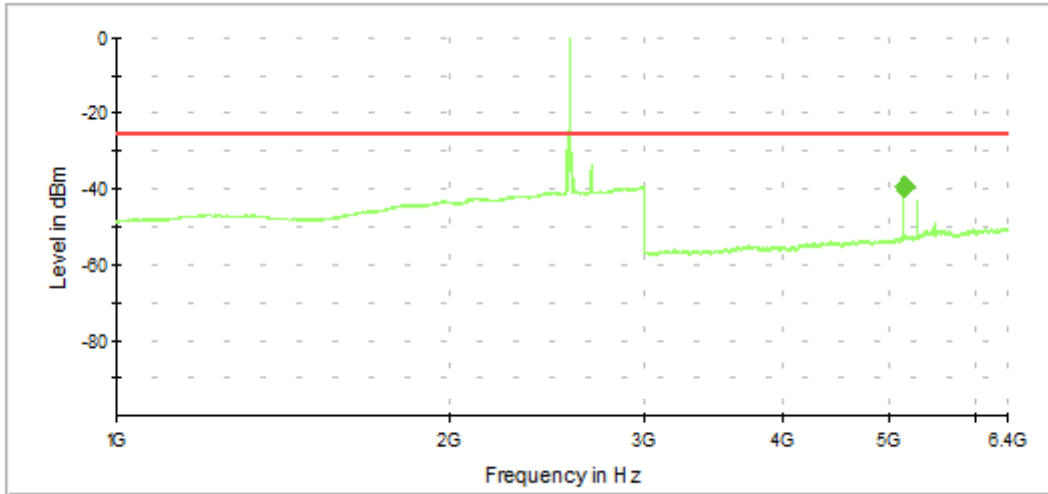


— RMS measurements — Limit FCC

Frequency MHz	RMS dBm	Limit dBm	Margin dB
5070.2	-40.0	-25.0	15.0
7605.4	-43.7	-25.0	18.7
10140.3	-36.0	-25.0	11.0

Note1: the peak showed above the limit is the fundamental emission
 Note2: the peak at 2655MHz corresponds to the downlink frequency

**1GHz to 18GHz - Radiated Spurious
LTE 7 - 16QAM - High channel 21449**



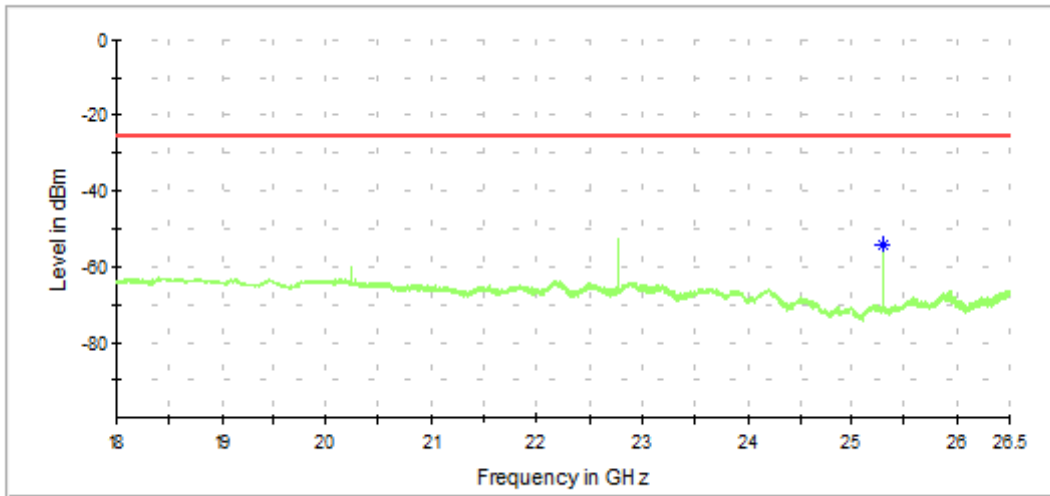
— RMS measurements — Limit FCC

Frequency MHz	RMS dBm	Limit dBm	Margin dB
5148.7	-39.6	-25.0	14.6
7722.4	-44.9	-25.0	19.9
10297.1	-35.0	-25.0	10.0

Note1: the peak showed above the limit is the fundamental emission

Note2: the peak at 2690MHz corresponds to the downlink frequency

**18GHz to 26.5GHz - Radiated Spurious
All modes**

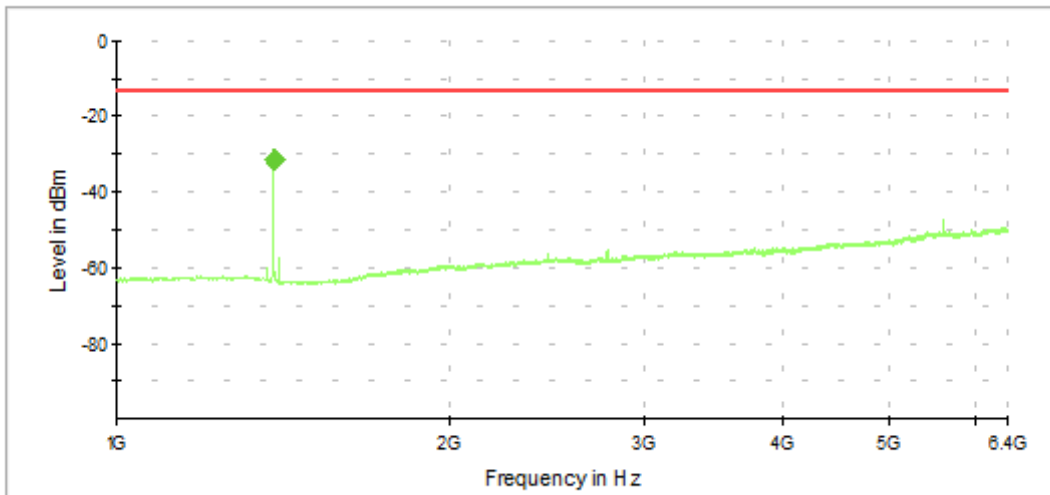
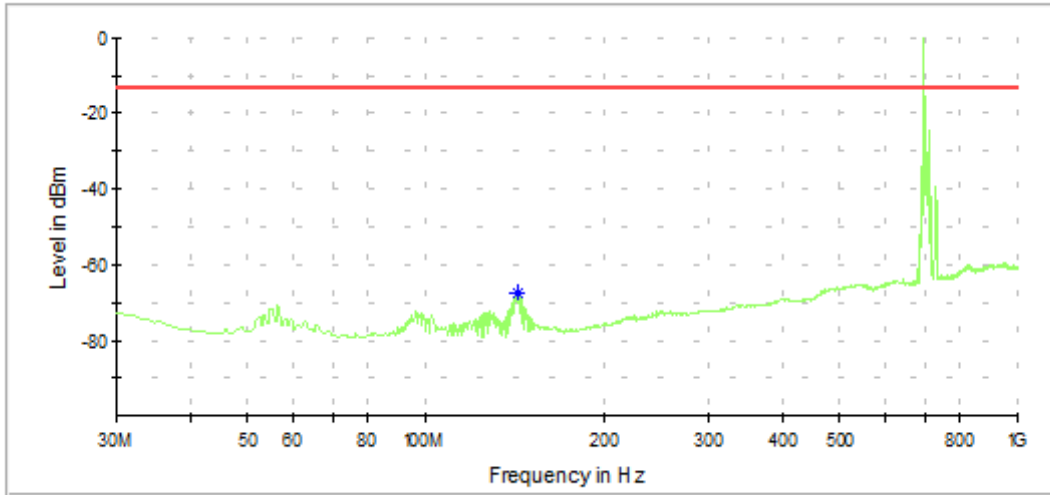


— RMS measurements
 — Limit FCC

Frequency	RMS	Limit	Margin
MHz	dBm	dBm	dB
25306.2	-54.4	-25.0	29.4

LTE 12(17)

**30MHz to 6.4GHz - Radiated Spurious
LTE 12 - QPSK - Low channel 23010**



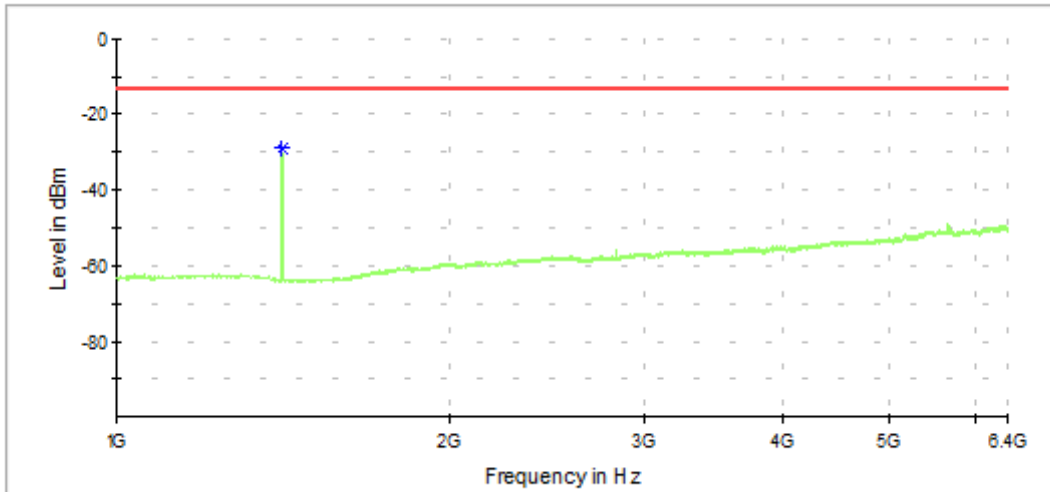
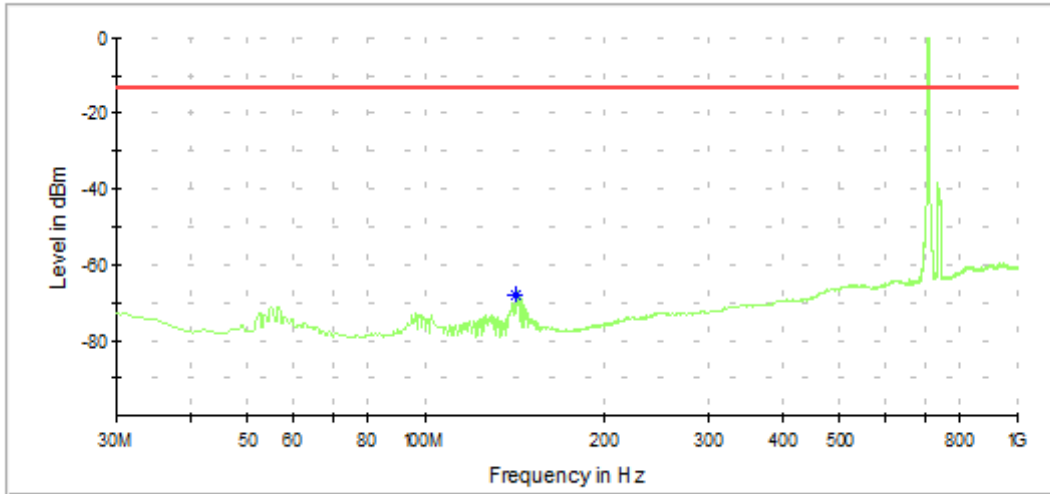
— RMS measurements — Limit FCC

Frequency	RMS	Limit	Margin
MHz	dBm	dBm	dB
143.0	-67.6	-13.0	54.6
1389.2	-31.8	-13.0	18.8

Note1: the peak showed above the limit is the fundamental emission

Note2: the peak at 729MHz corresponds to the downlink frequency

**30MHz to 6.4GHz - Radiated Spurious
LTE 12 - QPSK - Mid channel 23095**

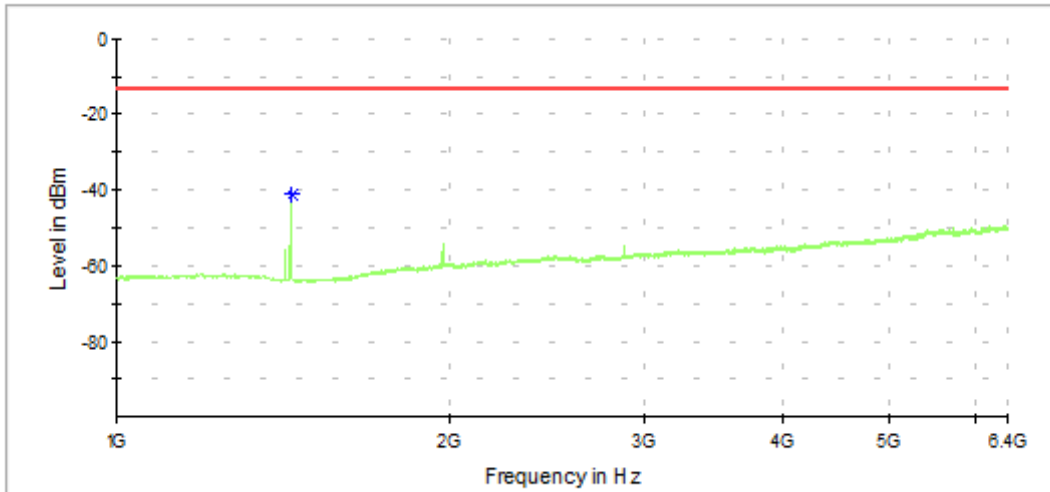
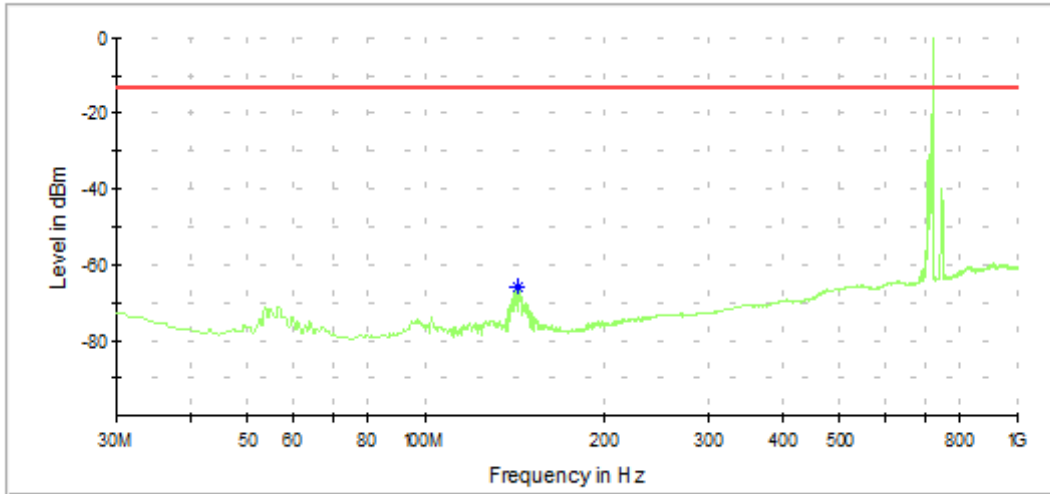


— RMS measurements — Limit FCC

Frequency MHz	RMS dBm	Limit dBm	Margin dB
142.0	-67.8	-13.0	54.8
1414.9	-28.9	-13.0	15.9

Note1: the peak showed above the limit is the fundamental emission
 Note2: the peak at 737.5MHz corresponds to the downlink frequency

30MHz to 6.4GHz - Radiated Spurious LTE 12 - QPSK - High channel 23179



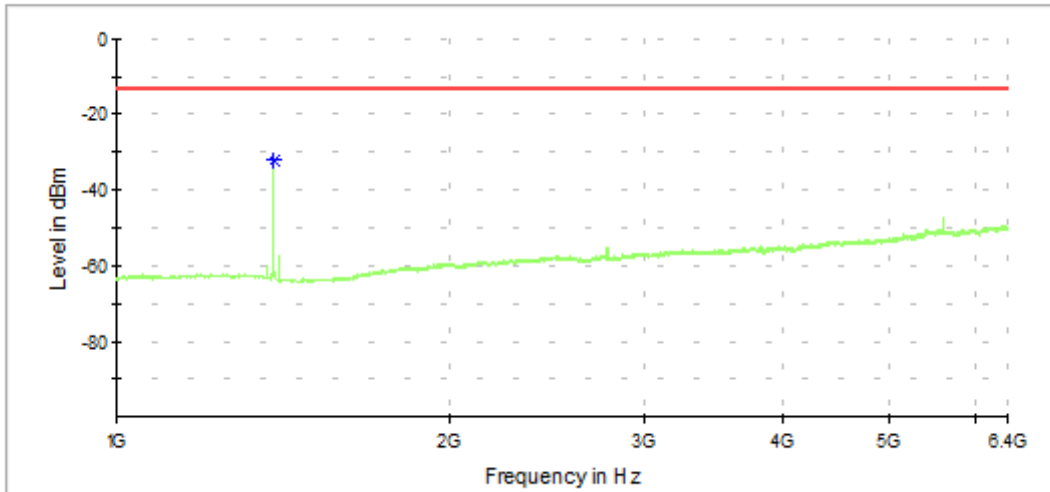
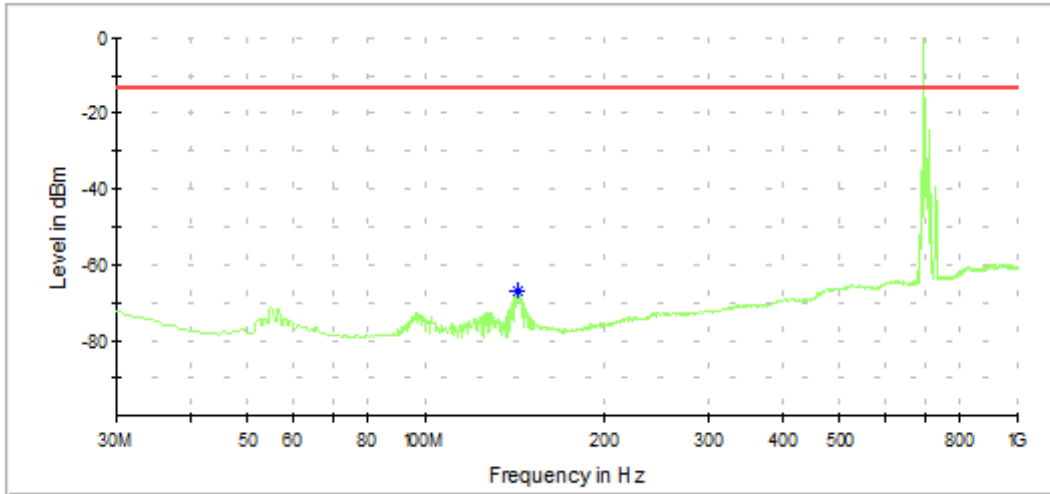
— RMS measurements — Limit FCC

Frequency	RMS	Limit	Margin
MHz	dBm	dBm	dB
143.0	-65.8	-13.0	52.8
1440.6	-41.1	-13.0	28.1

Note1: the peak showed above the limit is the fundamental emission

Note2: the peak at 746MHz corresponds to the downlink frequency

**30MHz to 6.4GHz - Radiated Spurious
LTE 12 - 16 QAM - Low channel 23010**

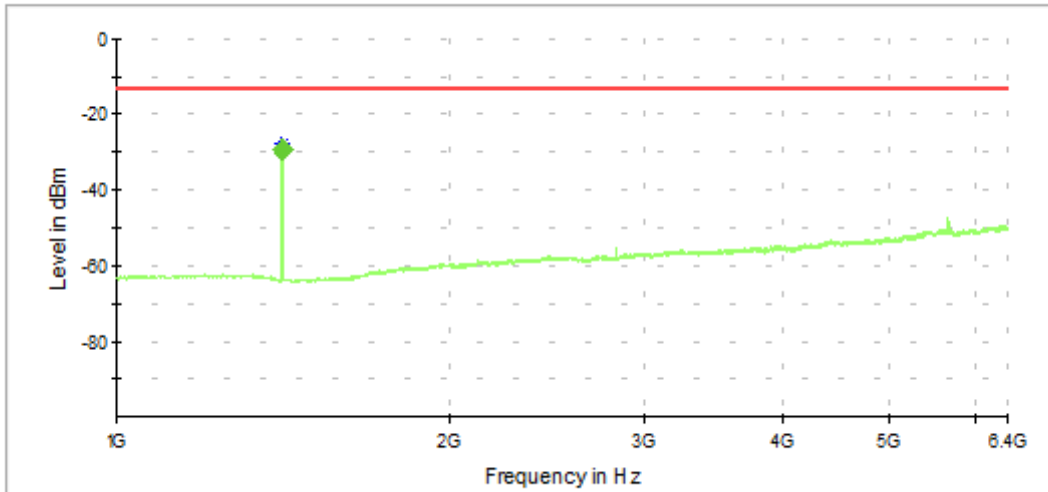
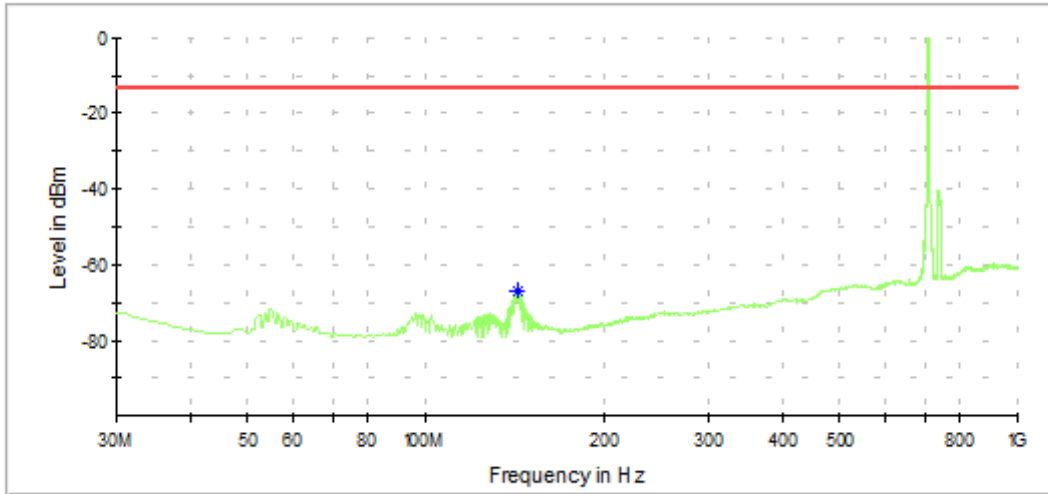


— RMS measurements — Limit FCC

Frequency MHz	RMS dBm	Limit dBm	Margin dB
143.0	-66.8	-13.0	53.8
1389.3	-32.2	-13.0	19.2

Note1: the peak showed above the limit is the fundamental emission
 Note2: the peak at 729MHz corresponds to the downlink frequency

30MHz to 6.4GHz - Radiated Spurious LTE 12 - 16QAM - Mid channel 23095



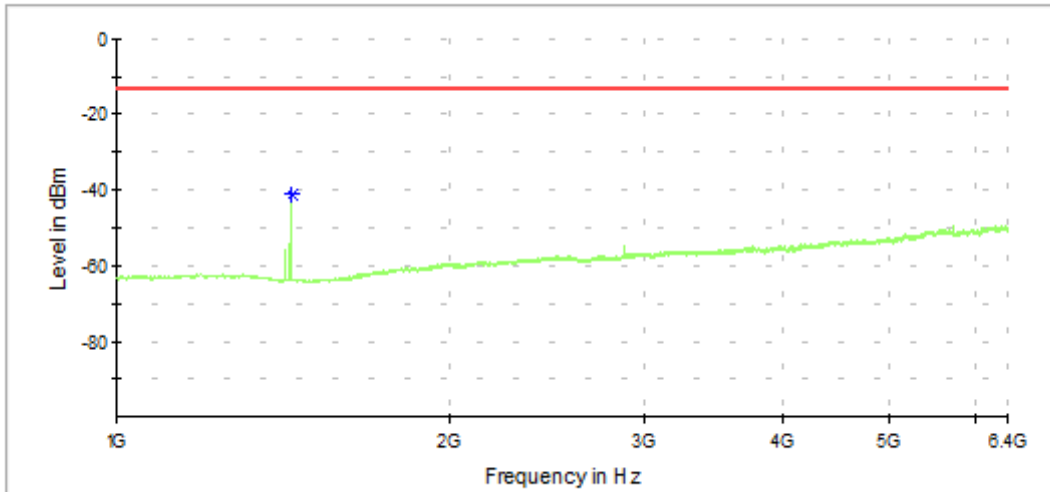
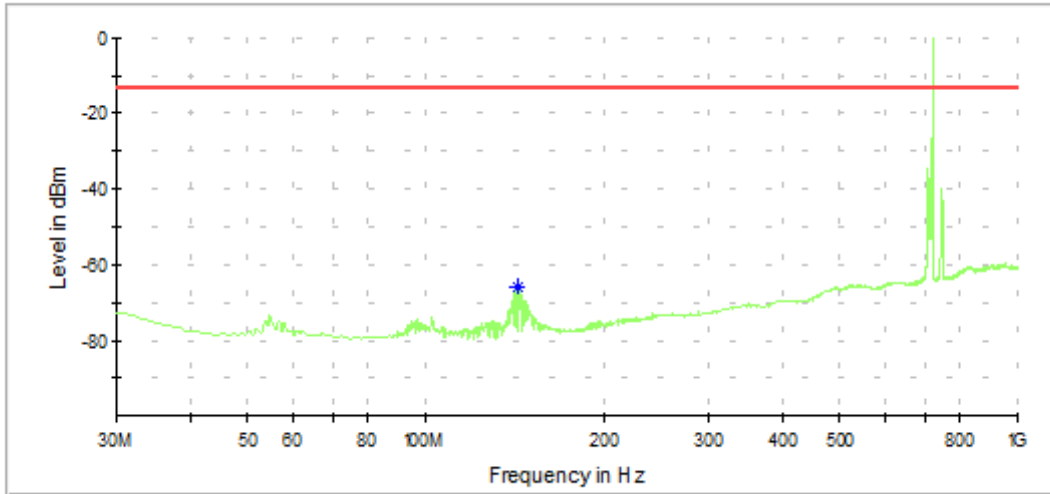
— RMS measurements — Limit FCC

Frequency	RMS	Limit	Margin
MHz	dBm	dBm	dB
143.0	-66.9	-13.0	53.9
1414.9	-29.5	-13.0	16.5

Note1: the peak showed above the limit is the fundamental emission

Note2: the peak at 737.5MHz corresponds to the downlink frequency

**30MHz to 6.4GHz - Radiated Spurious
LTE 12 - 16QAM - High channel 23179**

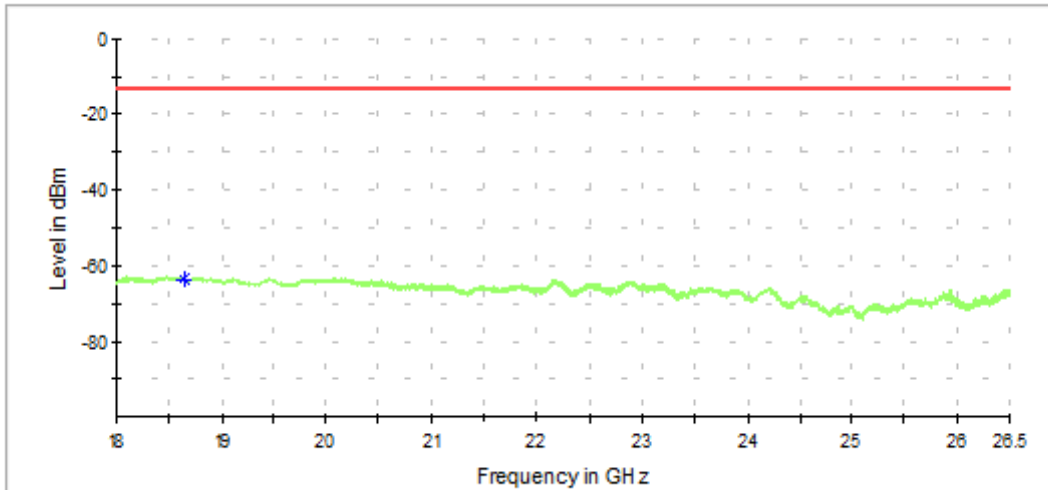
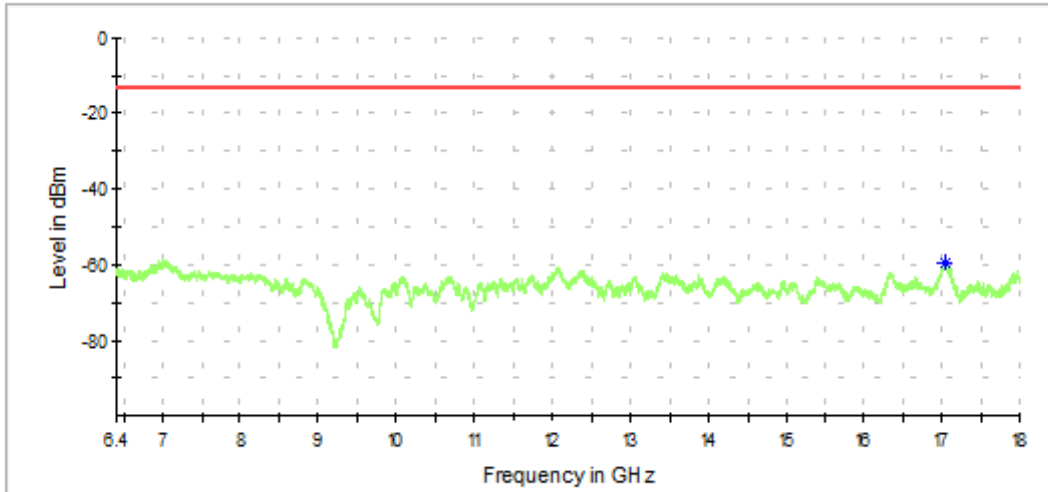


— RMS measurements — Limit FCC

Frequency MHz	RMS dBm	Limit dBm	Margin dB
143.0	-65.8	-13.0	52.8
1440.6	-40.9	-13.0	27.9

Note1: the peak showed above the limit is the fundamental emission
 Note2: the peak at 746MHz corresponds to the downlink frequency

6.4GHz to 26.5GHz - Radiated Spurious All modes



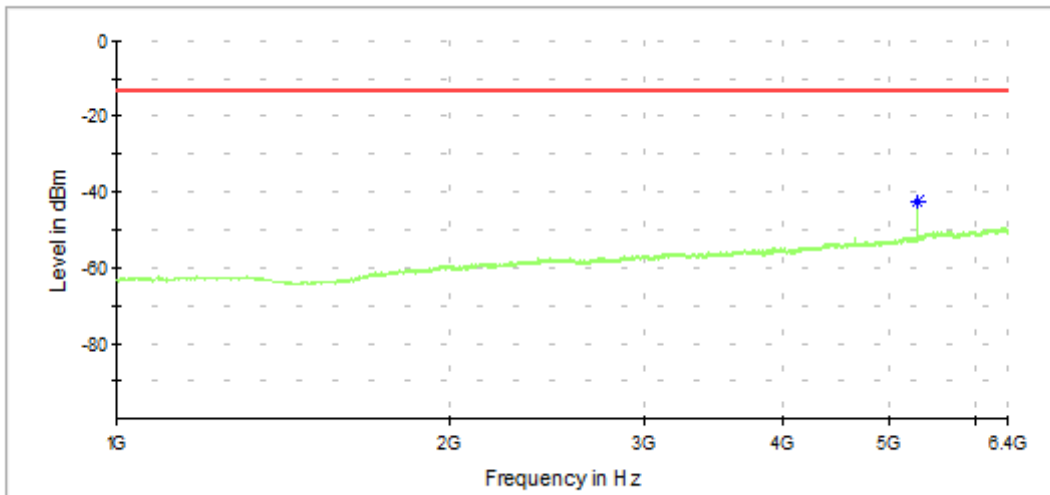
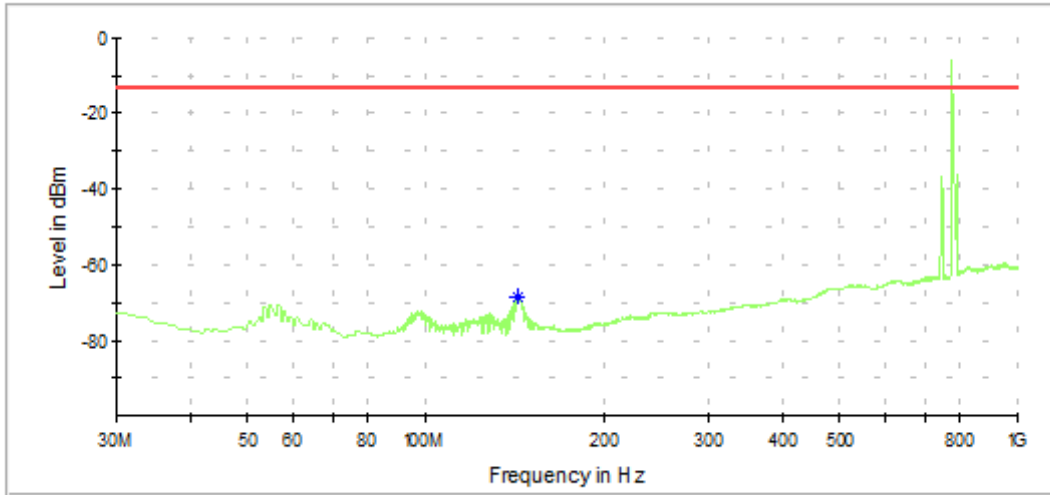
— RMS measurements — Limit FCC

Frequency	RMS	Limit	Margin
MHz	dBm	dBm	dB
17050.3	-60.0	-13.0	47.0
18646.0	-63.5	-13.0	50.5

Note 1: The spurious signals detected do not depend on either the operating channel or the modulation mode.

LTE 13

**30MHz to 6.4GHz - Radiated Spurious
LTE 13 - QPSK - Low channel 23180**



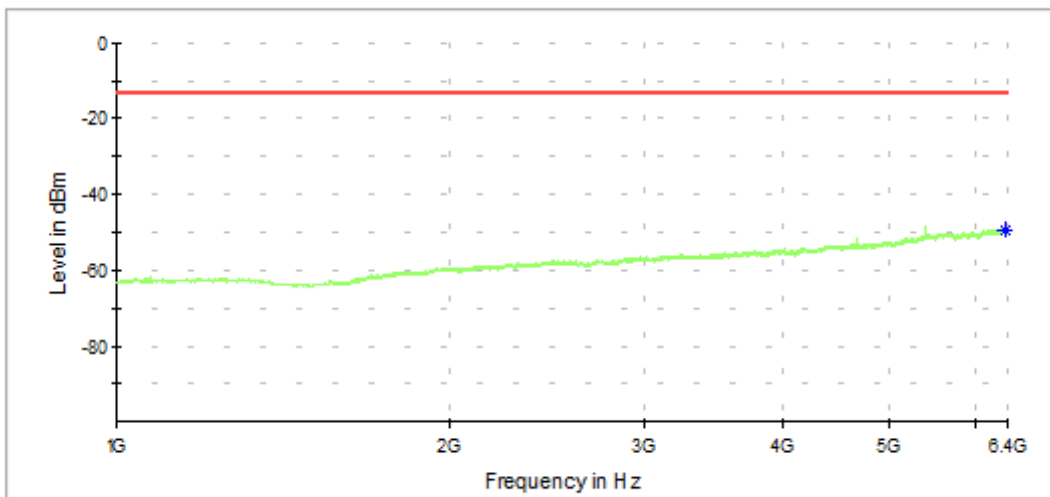
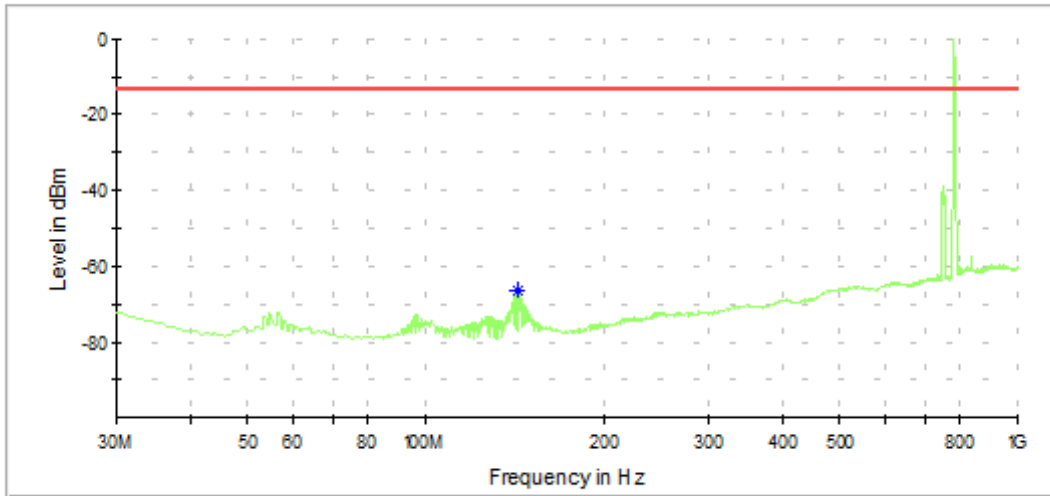
— RMS measurements — Limit FCC

Frequency	RMS	Limit	Margin
MHz	dBm	dBm	dB
143.0	-68.3	-13.0	55.3
5300.2	-42.6	-13.0	29.6

Note1: the peak showed above the limit is the fundamental emission

Note2: the peak at 746MHz corresponds to the downlink frequency

**30MHz to 6.4GHz - Radiated Spurious
LTE 13 - QPSK - Mid channel 23230**



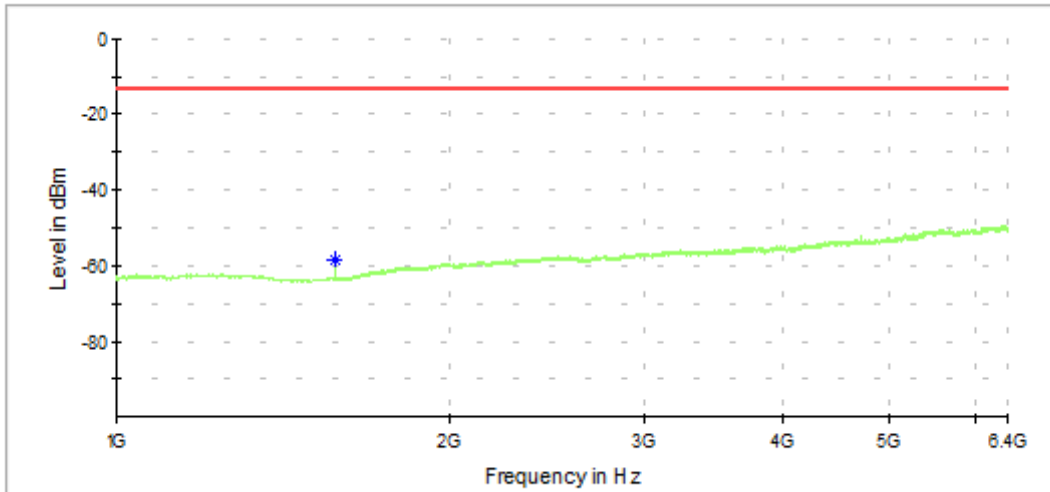
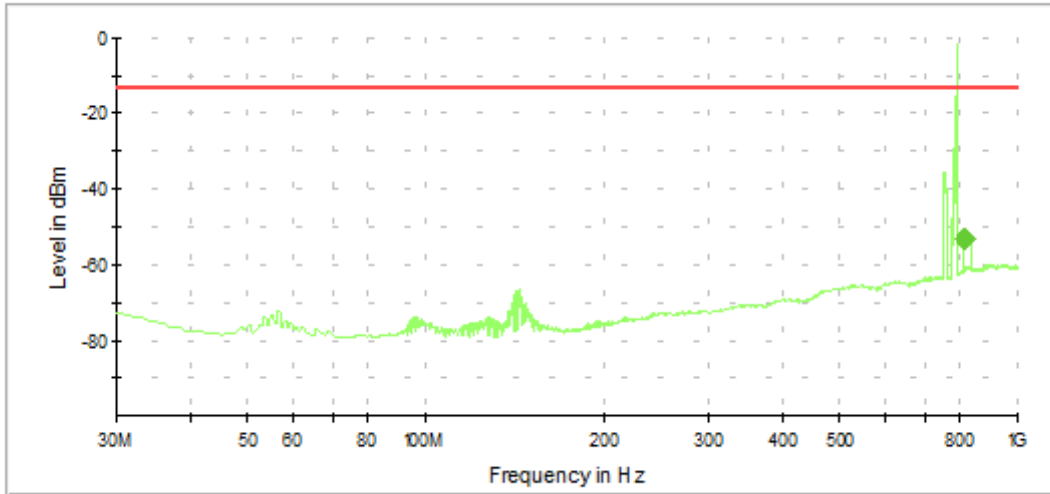
— RMS measurements
 — Limit FCC

Frequency	RMS	Limit	Margin
MHz	dBm	dBm	dB
143.0	-66.4	-13.0	53.4
6364.9	-49.4	-13.0	36.4

Note1: the peak showed above the limit is the fundamental emission

Note2: the peak at 751MHz corresponds to the downlink frequency

**30MHz to 6.4GHz - Radiated Spurious
LTE 13 - QPSK - High channel 23279**



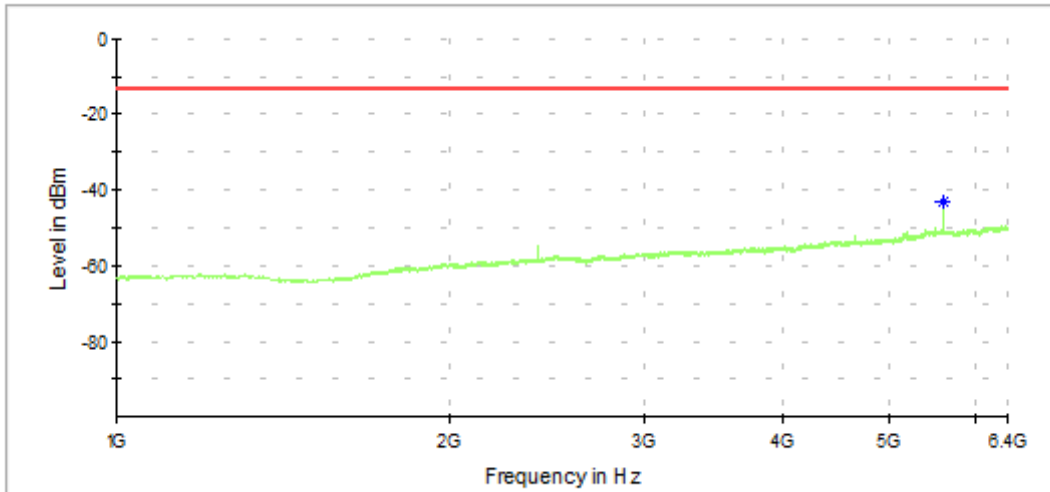
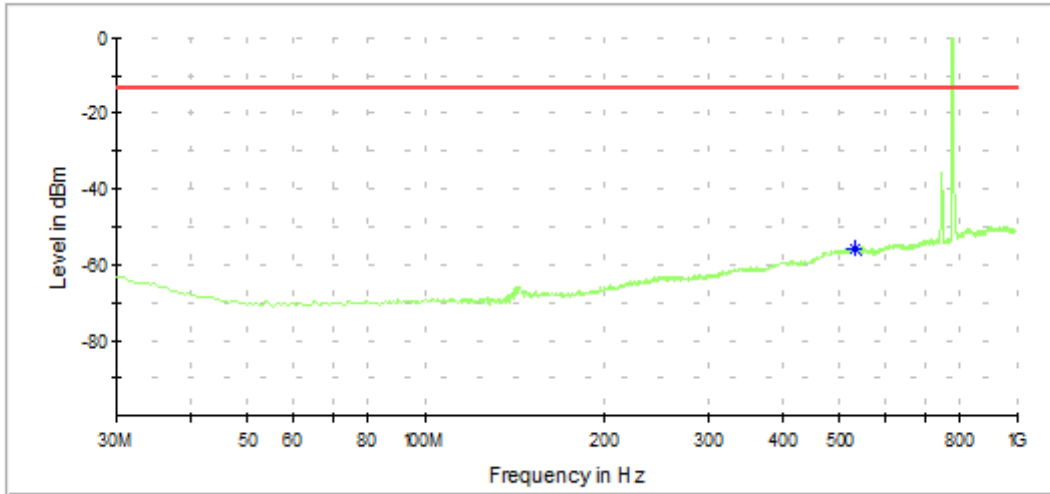
— RMS measurements — Limit FCC

Frequency MHz	RMS dBm	Limit dBm	Margin dB
808.9	53.1	-13.0	40.1
1582.3	-58.5	-13.0	45.5

Note1: the peak showed above the limit is the fundamental emission

Note2: the peak at 756MHz corresponds to the downlink frequency

**30MHz to 6.4GHz - Radiated Spurious
LTE 13 - 16QAM - Low channel 23180**



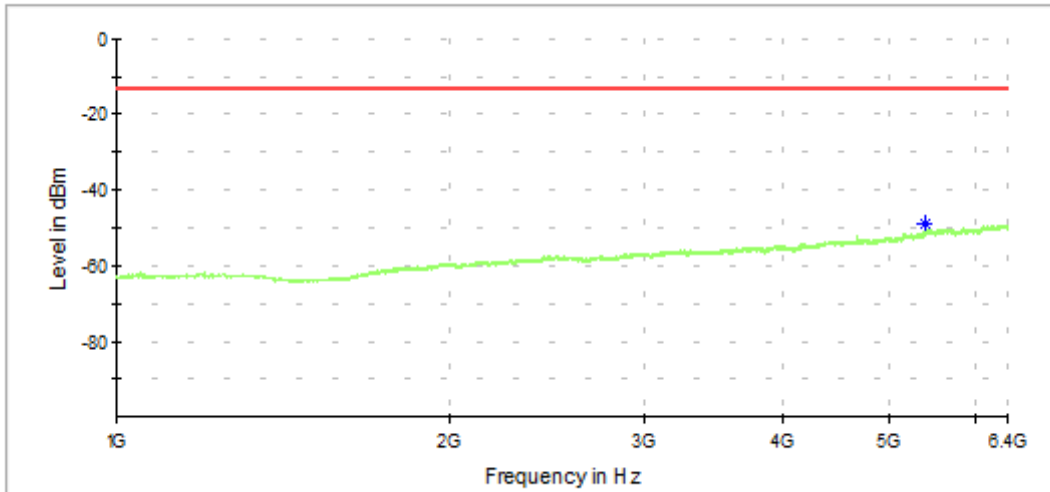
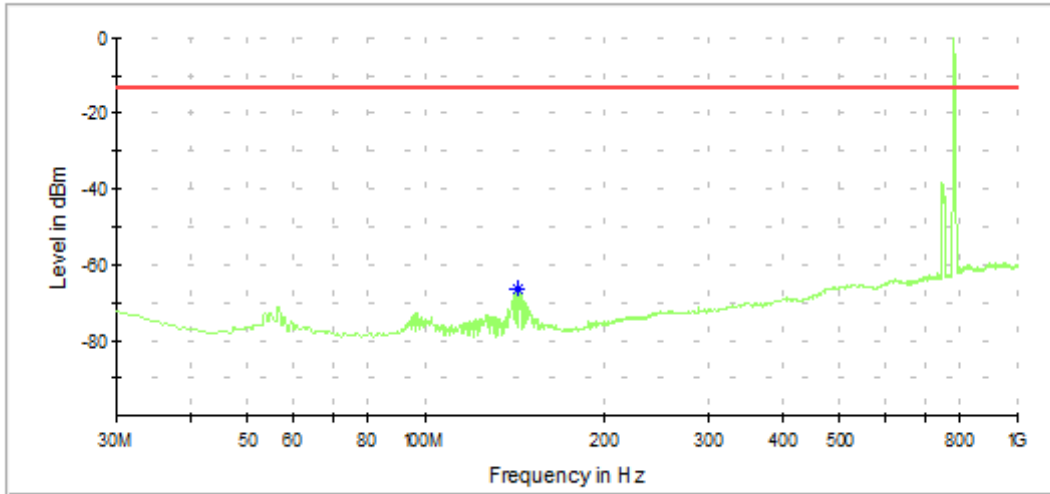
— RMS measurements — Limit FCC

Frequency MHz	RMS dBm	Limit dBm	Margin dB
533.4	-56.0	-13.0	43.0
5600.4	-43.4	-13.0	30.4

Note1: the peak showed above the limit is the fundamental emission

Note2: the peak at 746MHz corresponds to the downlink frequency

**30MHz to 6.4GHz - Radiated Spurious
LTE 13 - 16QAM - Mid channel 23230**



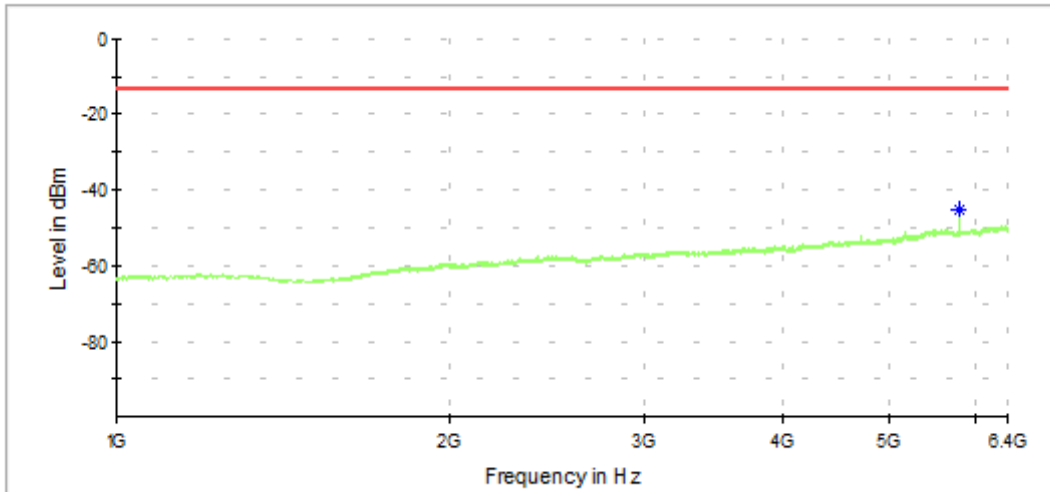
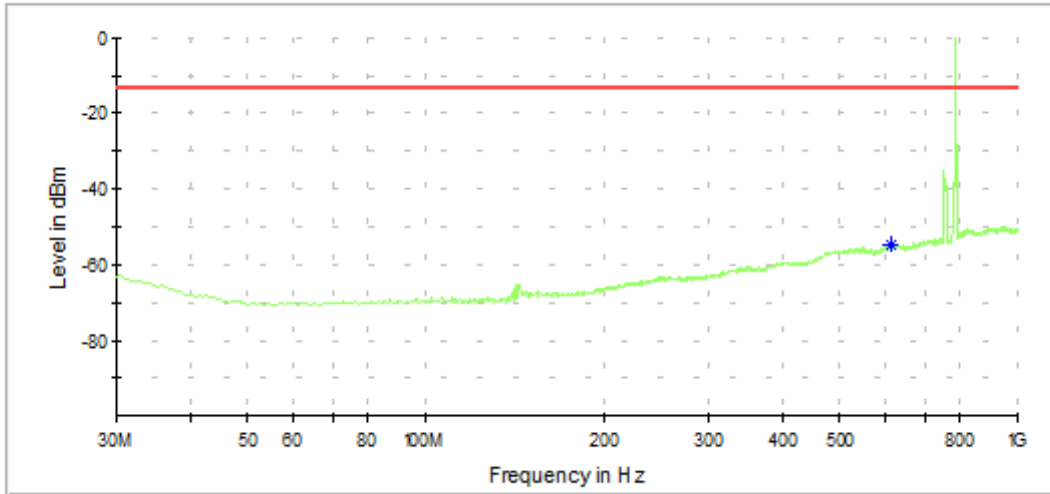
— RMS measurements — Limit FCC

Frequency MHz	RMS dBm	Limit dBm	Margin dB
143.0	-66.2	-13.0	53.2
5400.1	-48.8	-13.0	35.8

Note1: the peak showed above the limit is the fundamental emission

Note2: the peak at 751MHz corresponds to the downlink frequency

**30MHz to 6.4GHz - Radiated Spurious
LTE 13 - 16QAM - High channel 23279**



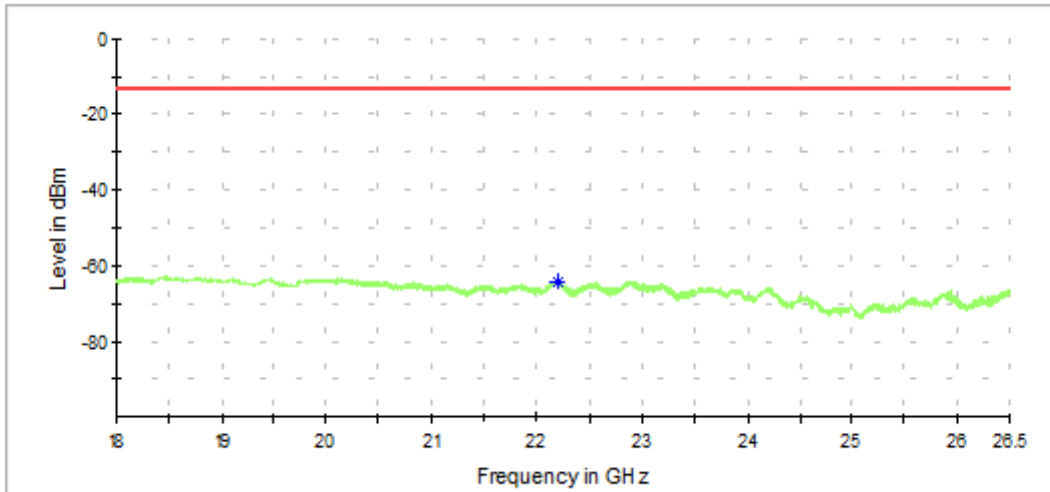
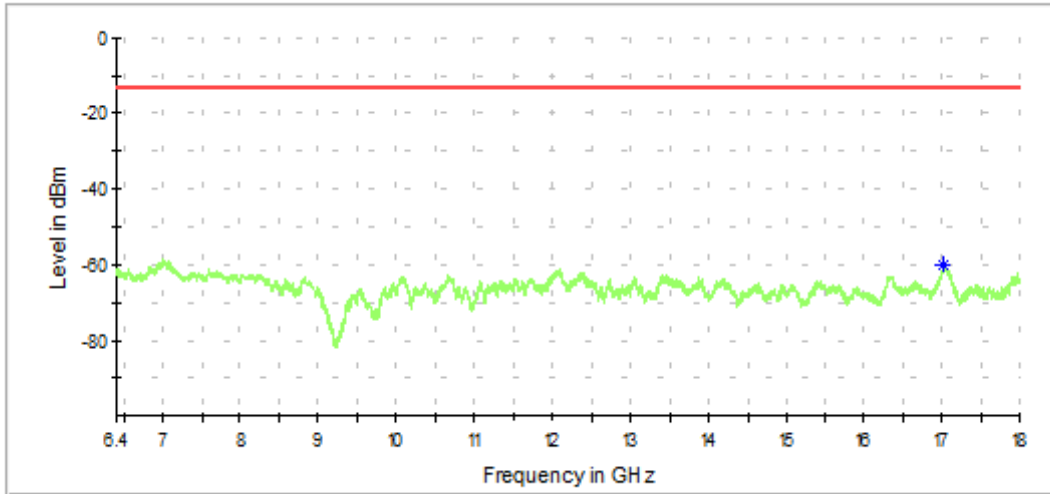
— RMS measurements — Limit FCC

Frequency MHz	RMS dBm	Limit dBm	Margin dB
614.9	-54.9	-13.0	41.9
5800.2	-45.5	-13.0	32.5

Note1: the peak showed above the limit is the fundamental emission

Note2: the peak at 756MHz corresponds to the downlink frequency

6.4GHz to 26.5GHz - Radiated Spurious All modes



— RMS measurements — Limit FCC

Frequency MHz	RMS dBm	Limit dBm	Margin dB
17020.8	-60.3	-13.0	47.3
22196.2	-64.3	-13.0	51.3

Note 1: The spurious signals detected do not depend on either the operating channel or the modulation mode.