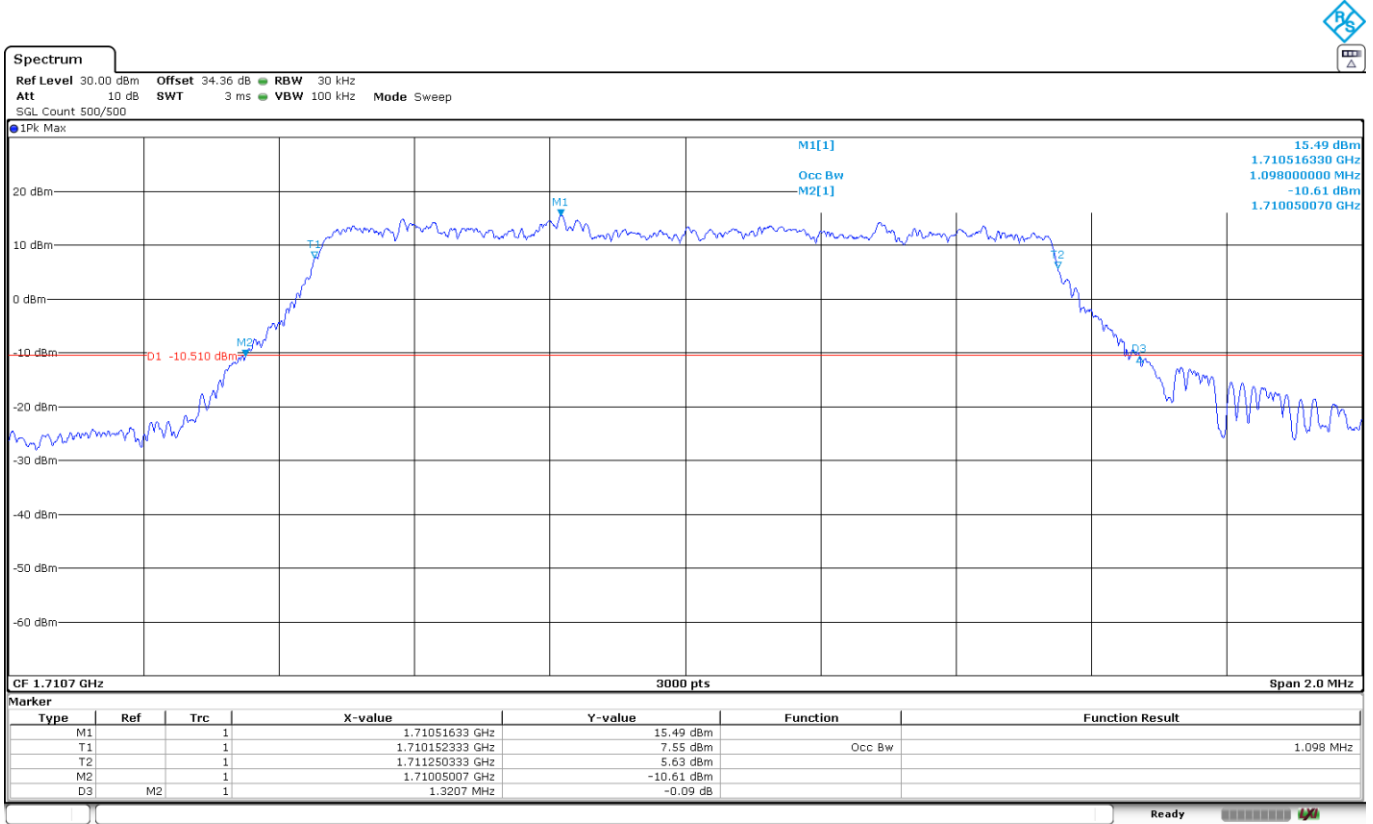
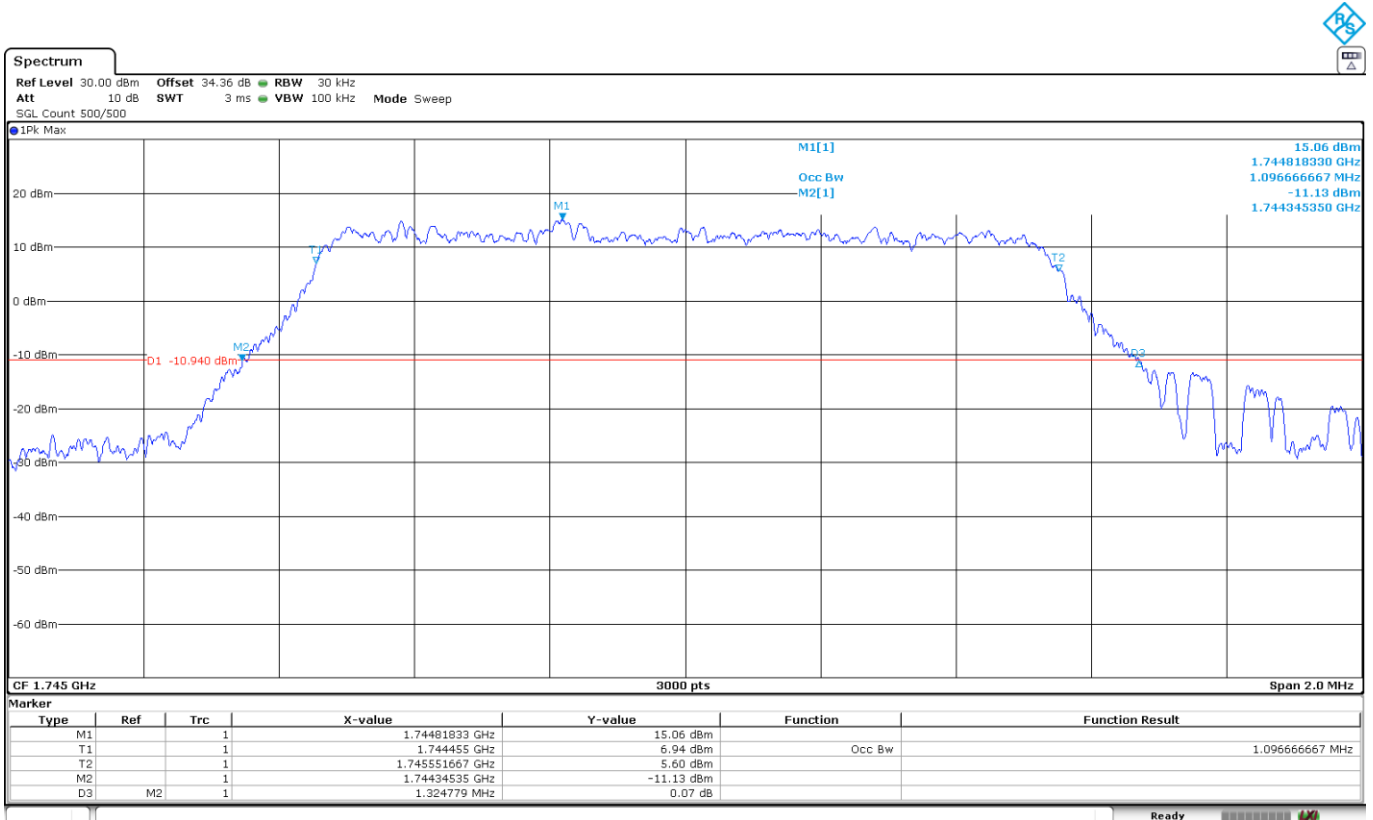


LTE Cat-M1 Band 66. BW=1.4 MHz. QPSK. RB Size 6.

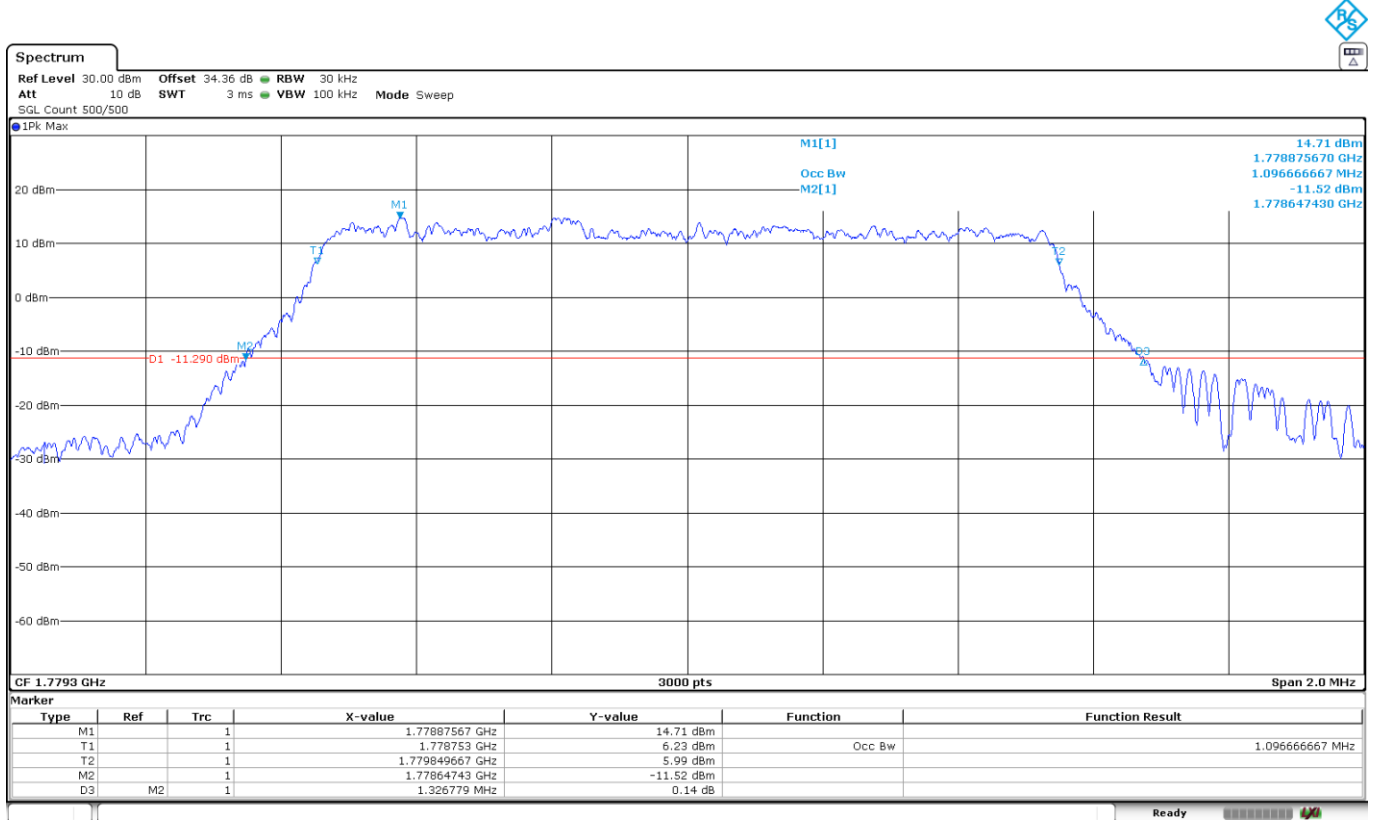
Low Channel:



Middle Channel:

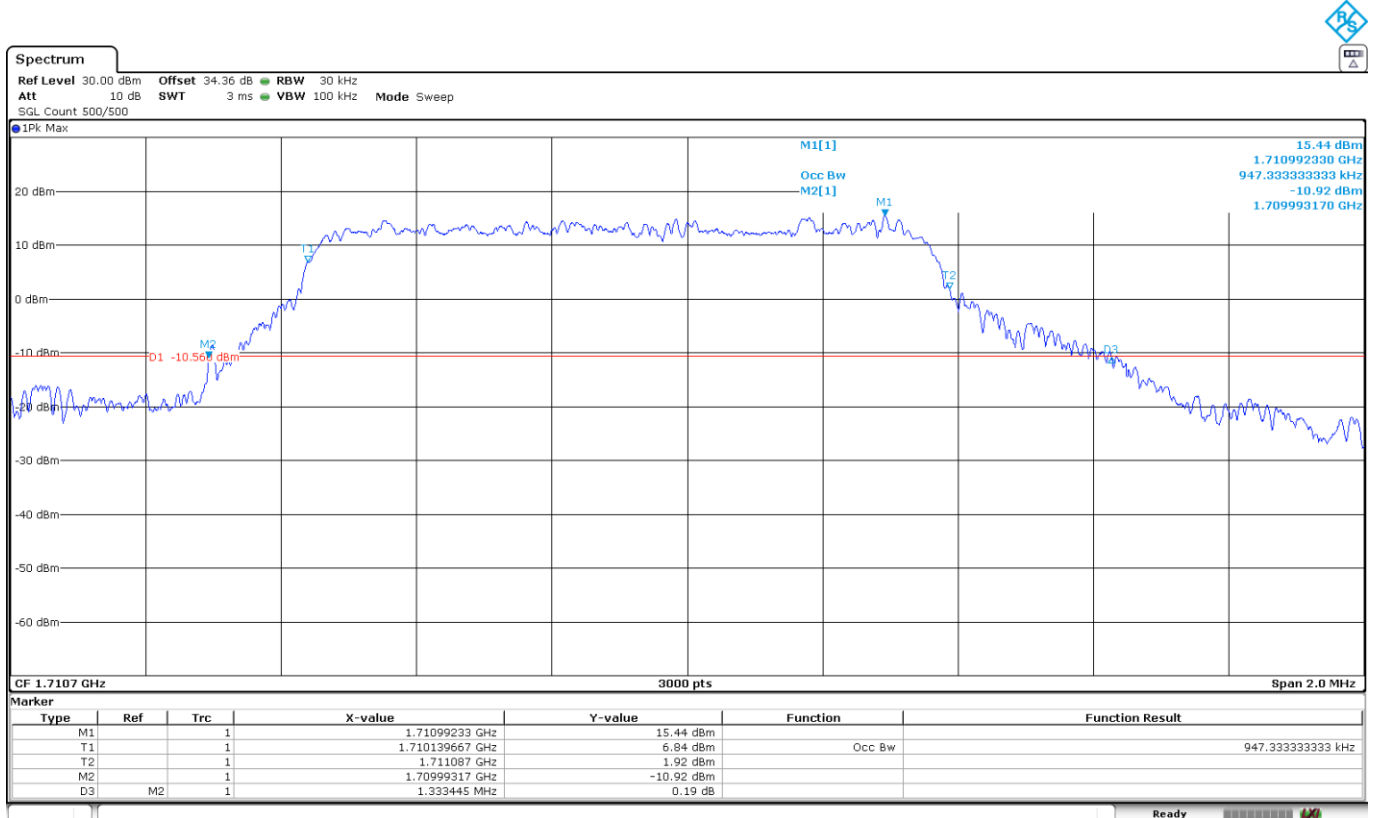


High Channel:

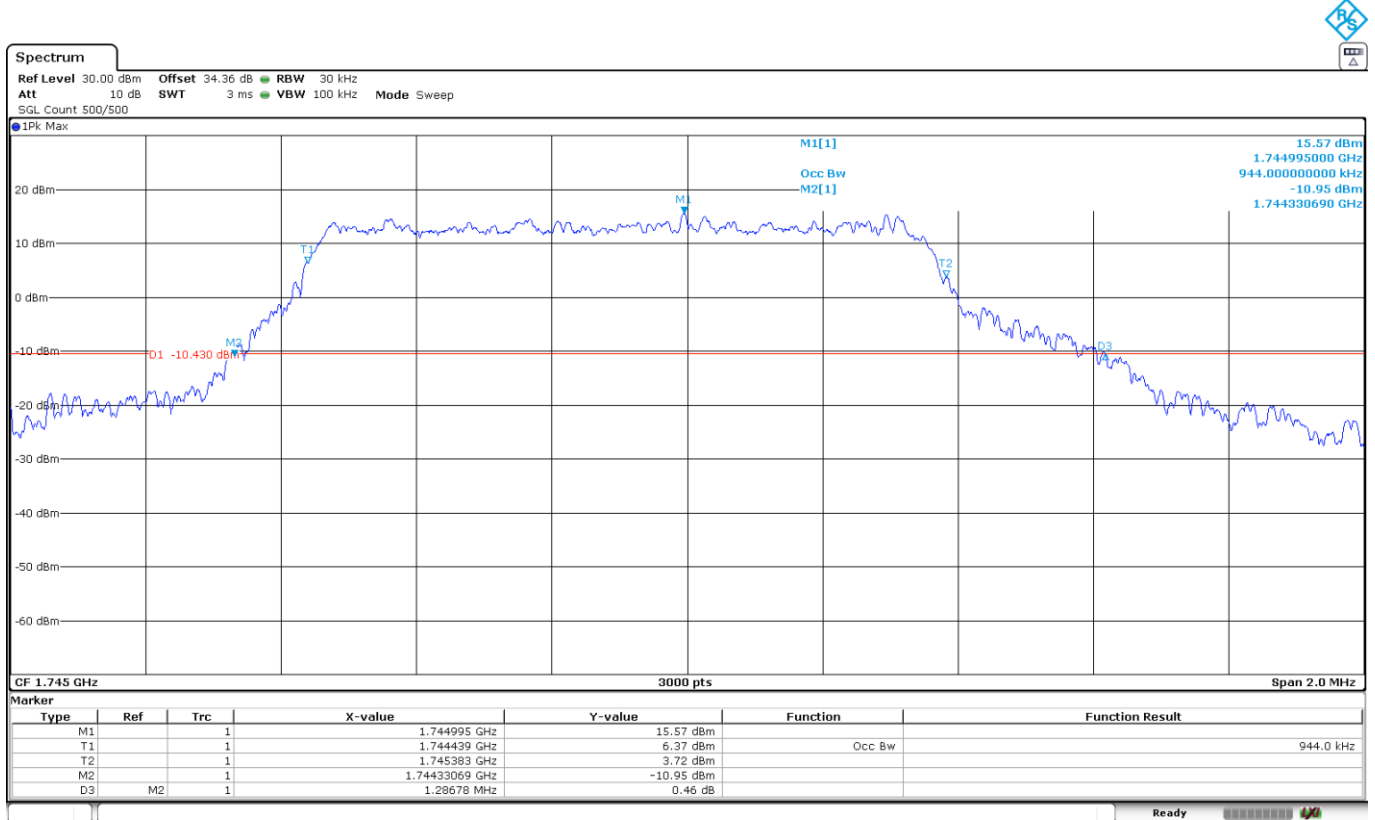


LTE Cat-M1 Band 66. BW=1.4 MHz. 16QAM. RB Size 5.

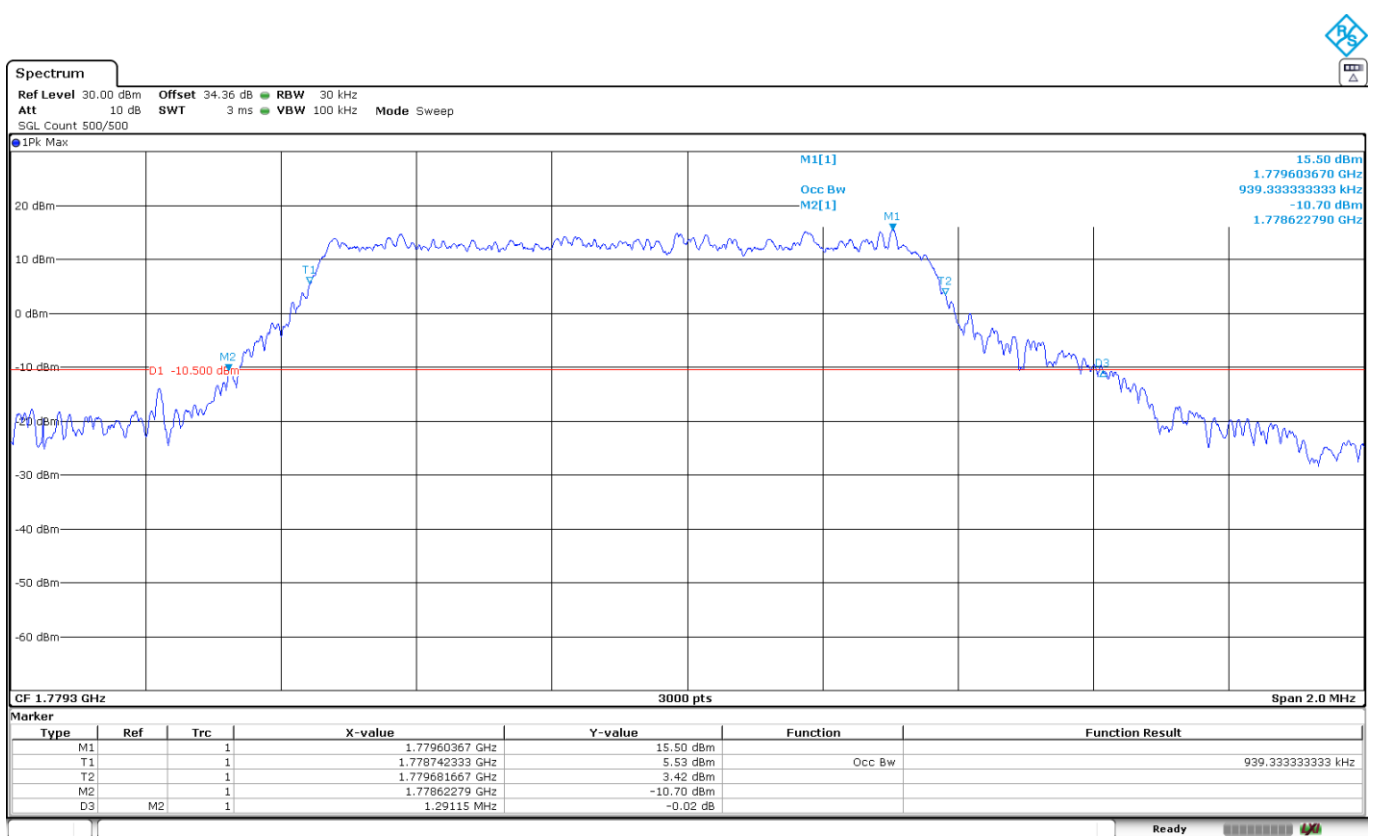
Low Channel:



Middle Channel:

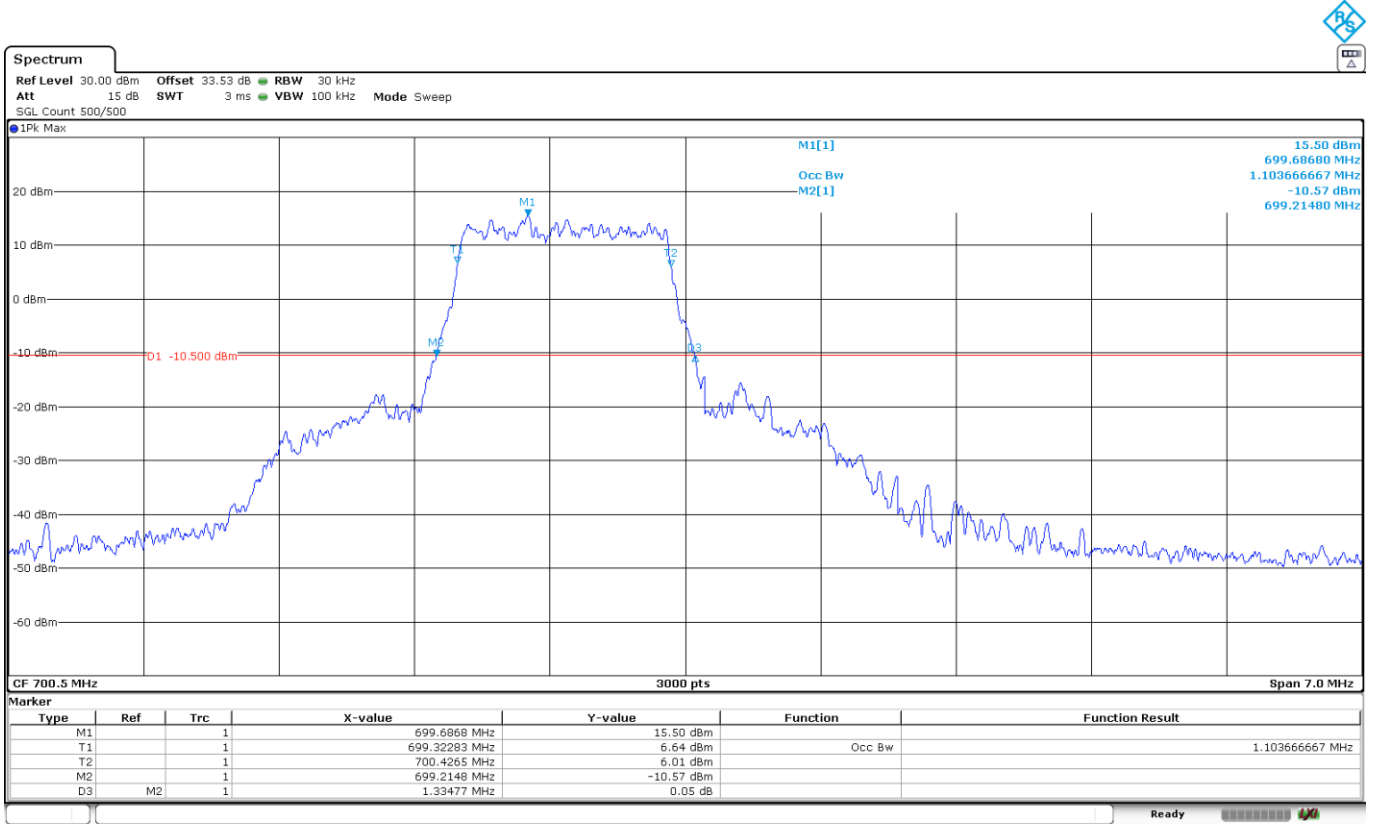


High Channel:

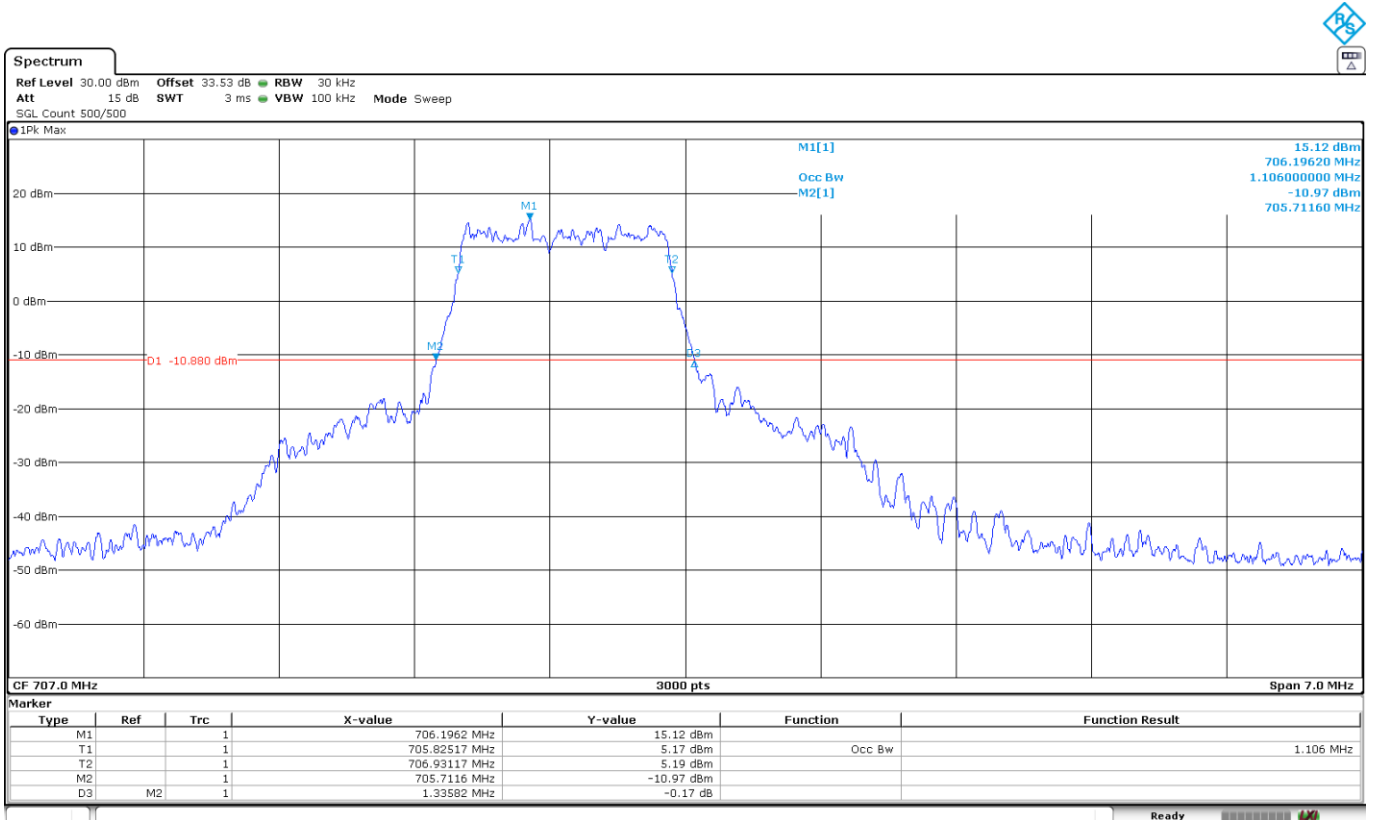


LTE Cat-M1 Band 85. BW=5 MHz. QPSK. RB Size 6.

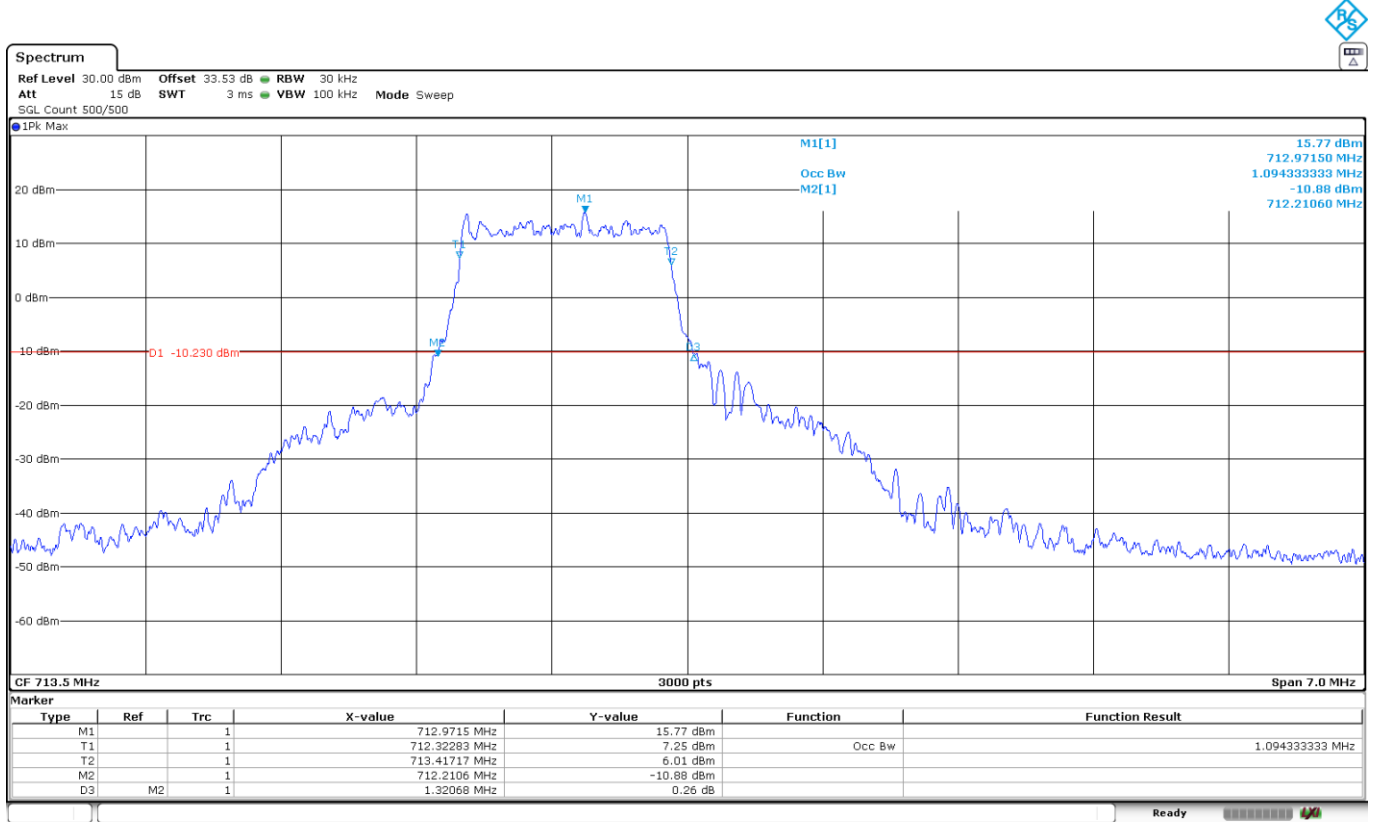
Low Channel:



Middle Channel:

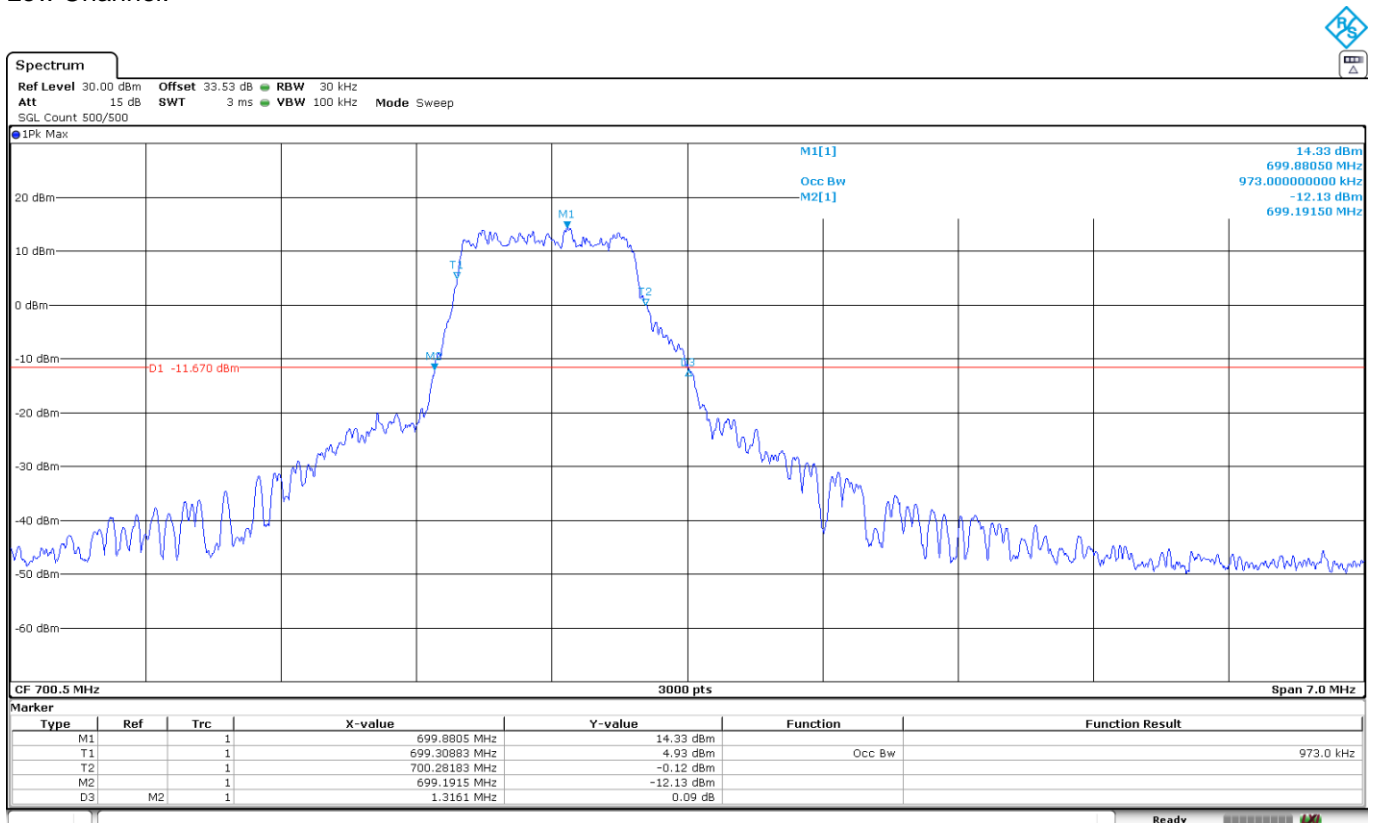


High Channel:

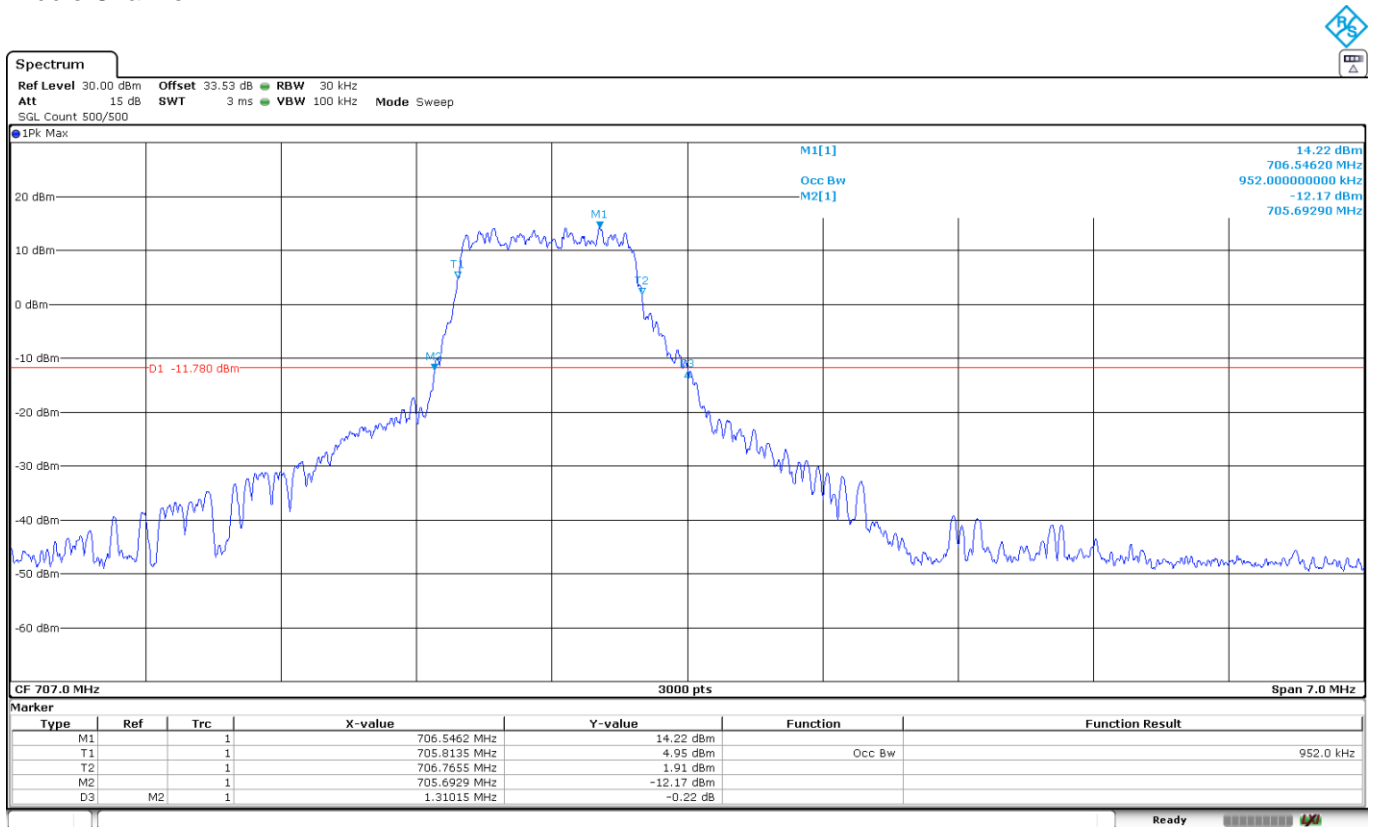


LTE Cat-M1 Band 85. BW=5 MHz. 16QAM. RB Size 5.

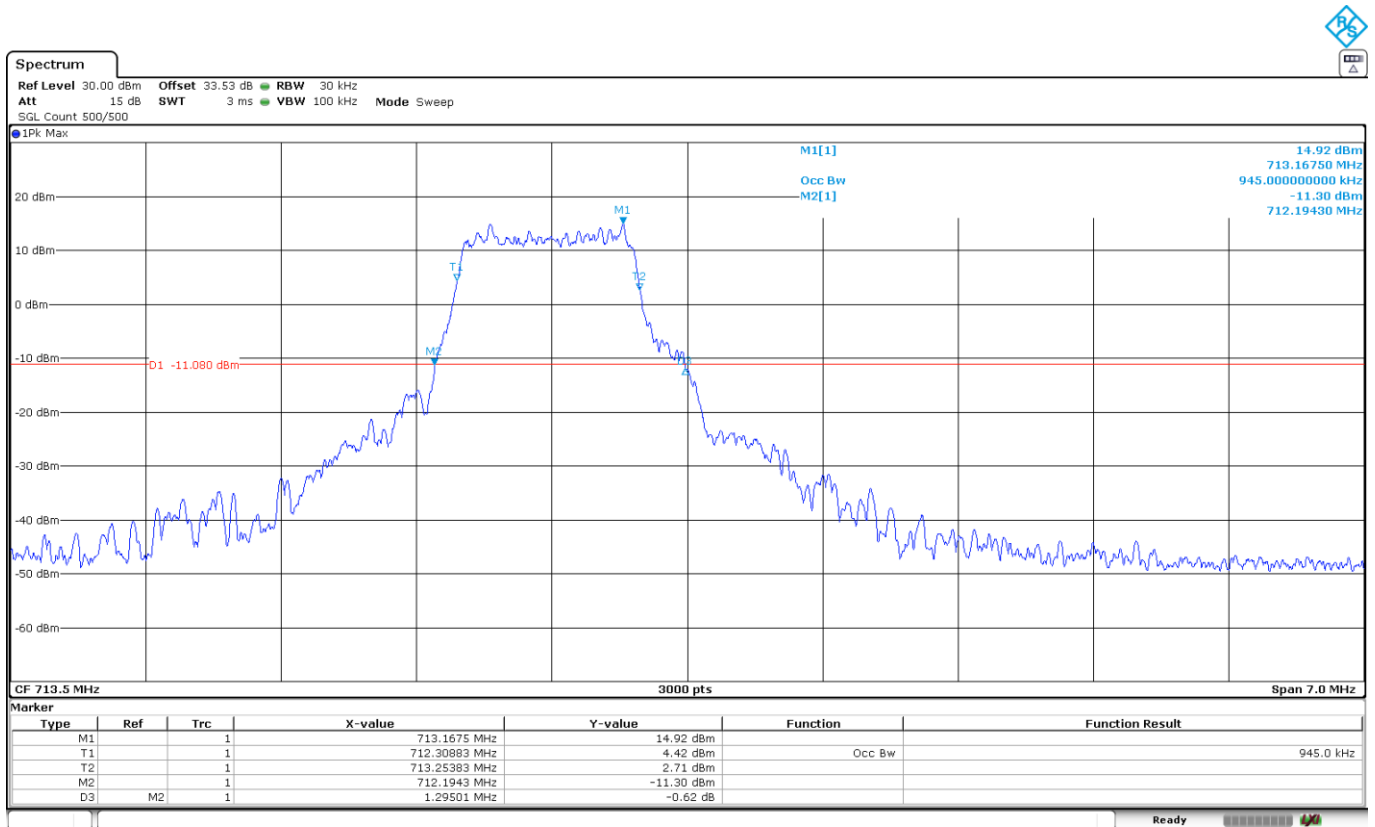
Low Channel:



Middle Channel:



High Channel:



Spurious Emissions at Antenna Terminals

Limits

1. LTE Cat-M1 Band 8. FCC §27.1509 (a).

FCC §27.1509 (a):

The power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) in watts by at least the following amounts:

- (a) For 900 MHz broadband operations in 897.5–900.5 MHz band by at least $43 + 10 \log (P)$ dB.

2. LTE Cat-M1 Band 13.

FCC §27.53 (c):

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. Compliance is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater.

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. Compliance is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment.

RSS-130 4.7.1 and 4.7.2:

4.7.1 General unwanted emissions limits:

The unwanted emissions in any 100 kHz bandwidth on any frequency outside the low frequency edge and the high frequency edge of each frequency block range(s), shall be attenuated below the transmitter power, P (dBW), by at least $43 + 10 \log_{10} p$ (watts), dB. However, in the 100 kHz band immediately outside of the equipment's frequency block range, a resolution bandwidth of 30 kHz may be employed.

4.7.2 Additional unwanted emissions limits:

In addition to the limit outlined in section 4.7.1 above, equipment operating in the frequency bands 746-756 MHz and 777-787 MHz shall also comply with the following restrictions:

a. the power of any unwanted emissions in any 6.25 kHz bandwidth for all frequencies between 763-775 MHz and 793-806 MHz shall be attenuated below the transmitter power, P (dBW), by at least:

- i. $76 + 10 \log_{10} p$ (watts), dB, for base and fixed equipment and
- ii. $65 + 10 \log_{10} p$ (watts), dB, for mobile and portable equipment

b. the e.i.r.p. in the band 1559-1610 MHz shall not exceed -70 dBW/MHz for wideband signal and -80 dBW for discrete emission with bandwidth less than 700 Hz.

3. LTE Cat-M1 Band 66.

FCC §27.53 (h). RSS-139 5.6:

Unwanted emissions shall be measured in terms of average values.

For all equipment, the TRP or total conducted power (sum of conducted power across all antenna connectors) of the unwanted emissions outside the frequency block or frequency block group shall not exceed the limits shown in table 6.

Table 6: Unwanted emission limits	
Offset from the edge of the frequency block or frequency block group	Unwanted emission limits
1 MHz	-13 dBm/(1% of OB*)
>1 MHz	-13 dBm/MHz

*OB is the occupied bandwidth.

In addition to complying with the above limits, equipment operating in the band 2180-2200 MHz may require additional filtering (see SRSP-519).

4. LTE Cat-M1 Band 85.

FCC §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.

RSS-130. Clause 4.7.1:

The unwanted emissions in any 100 kHz bandwidth on any frequency outside the low frequency edge and the high frequency edge of each frequency block range(s). shall be attenuated below the transmitter power. P (dBW). by at least $43 + 10 \log_{10} p$ (watts). dB.

At P_o transmitting power. the specified minimum attenuation becomes $43+10 \log (P_o)$. and the level in dBm relative to P_o becomes:

$$P_o \text{ (dBm)} - [43 + 10 \log (P_o \text{ in mW}) - 30] = -13 \text{ dBm}$$

At P_o transmitting power. the specified minimum attenuation becomes $65+10 \log (P_o)$. and the level in dBm relative to P_o becomes:

$$P_o \text{ (dBm)} - [65 + 10 \log (P_o \text{ in mW}) - 30] = -35 \text{ dBm}$$

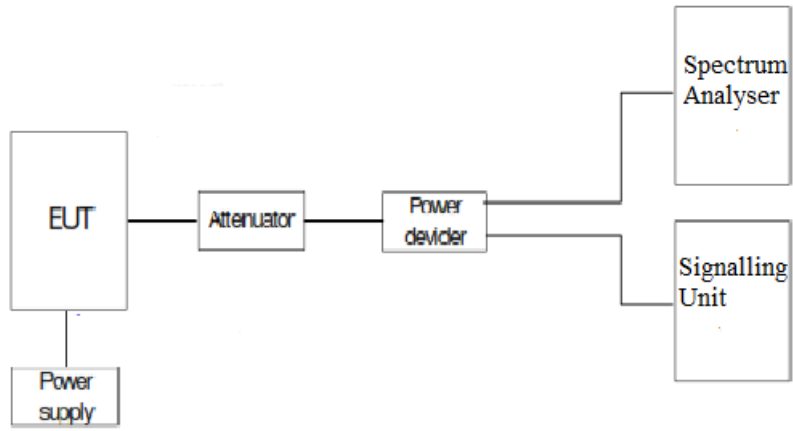
Method

The EUT RF output connector was connected to a spectrum analyser and to the Universal Radio Communication tester R&S CMW500 (selecting maximum transmission power of the EUT and different modes of modulation) using a 50-Ohm attenuator and a power divider.

The reading of the spectrum analyser is corrected with the attenuation loss of connection between output terminal of EUT and input of the spectrum analyser.

The configuration of Resource Blocks and modulation which is the worst case for conducted power was used.

Test Setup



Results

LTE Cat-M1 Band 8: BW=1.4 MHz. QPSK. RB Size 1. RB Offset 2. Narrowband 0.

- Low Channel: No spurious frequencies at less than 20 dB below the limit.
- High Channel: No spurious frequencies at less than 20 dB below the limit

LTE Cat-M1 Band 13: BW=5 MHz. QPSK. RB Size 1. RB Offset 0. Narrowband 0.

- Low Channel: Spurious frequencies at less than 20 dB below the limit:

Spurious Frequency (MHz)	Emission Limitations Conducted (dBm)	Limit (dBm)
774.777143	-50.04	-35

- High Channel: No spurious frequencies at less than 20 dB below the limit

LTE Cat-M1 Band 66: BW=15 MHz. QPSK. RB Size 6. RB Offset 0. Narrowband 0.

- Low Channel: No spurious frequencies at less than 20 dB below the limit.
- Middle Channel: No spurious frequencies at less than 20 dB below the limit.
- High Channel: No spurious frequencies at less than 20 dB below the limit.

LTE Cat-M1 Band 85: BW=5 MHz. QPSK. RB Size 1. RB Offset 2. Narrowband 1.

- Low Channel: No spurious frequencies at less than 20 dB below the limit.
- Middle Channel: No spurious frequencies at less than 20 dB below the limit.
- High Channel: No spurious frequencies at less than 20 dB below the limit

Measurement uncertainty (dB): $<\pm 2.76$

Verdict

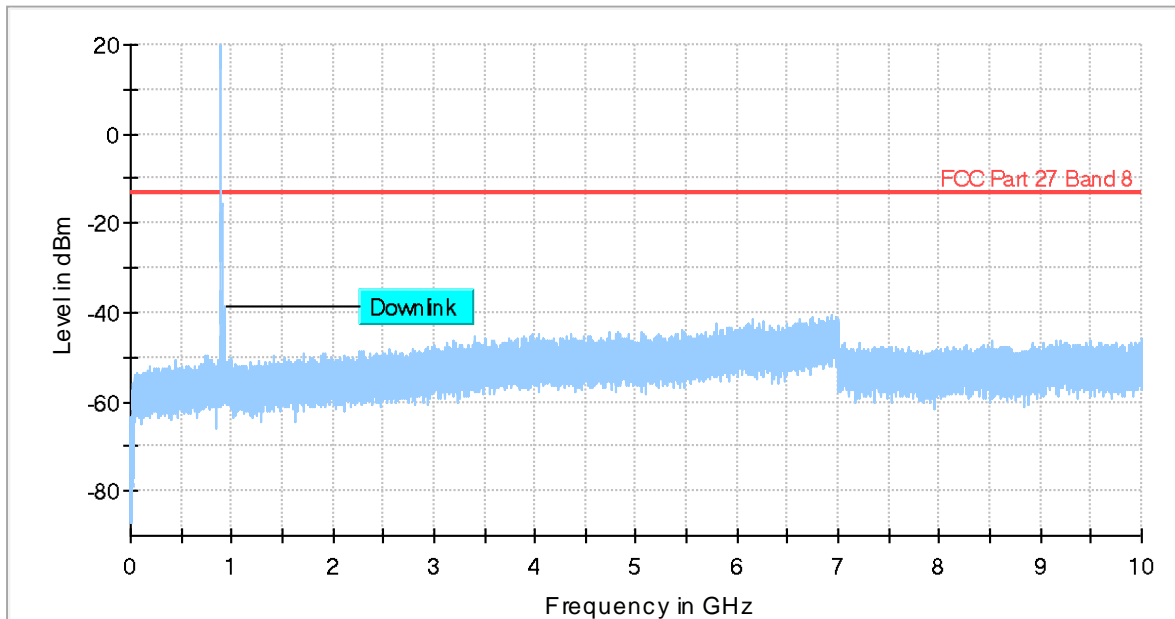
PASS

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
9 kHz - 150 kHz	14.1 Hz	PK+	300 Hz	Coupled	0 dB
150 kHz - 30 MHz	932.812 Hz	PK+	10 kHz	Coupled	0 dB
30 MHz - 1 GHz	30.312 kHz	PK+	100 kHz	Coupled	0 dB
1 GHz - 2 GHz	31.25 kHz	PK+	100 kHz	Coupled	0 dB
2 GHz - 3 GHz	31.25 kHz	PK+	100 kHz	Coupled	0 dB
3 GHz - 4 GHz	31.25 kHz	PK+	100 kHz	Coupled	0 dB
4 GHz - 5 GHz	31.25 kHz	PK+	100 kHz	Coupled	0 dB
5 GHz - 6 GHz	31.25 kHz	PK+	100 kHz	Coupled	0 dB
6 GHz - 7 GHz	31.25 kHz	PK+	100 kHz	Coupled	0 dB
7 GHz - 8 GHz	31.25 kHz	PK+	100 kHz	Coupled	0 dB
8 GHz - 9 GHz	31.25 kHz	PK+	100 kHz	Coupled	0 dB
9 GHz - 10 GHz	31.25 kHz	PK+	100 kHz	Coupled	0 dB

LTE Cat-M1 Band 8. BW=1.4 MHz. QPSK. RB Size 1. RB Offset 2. Narrowband 0.

Low Channel:

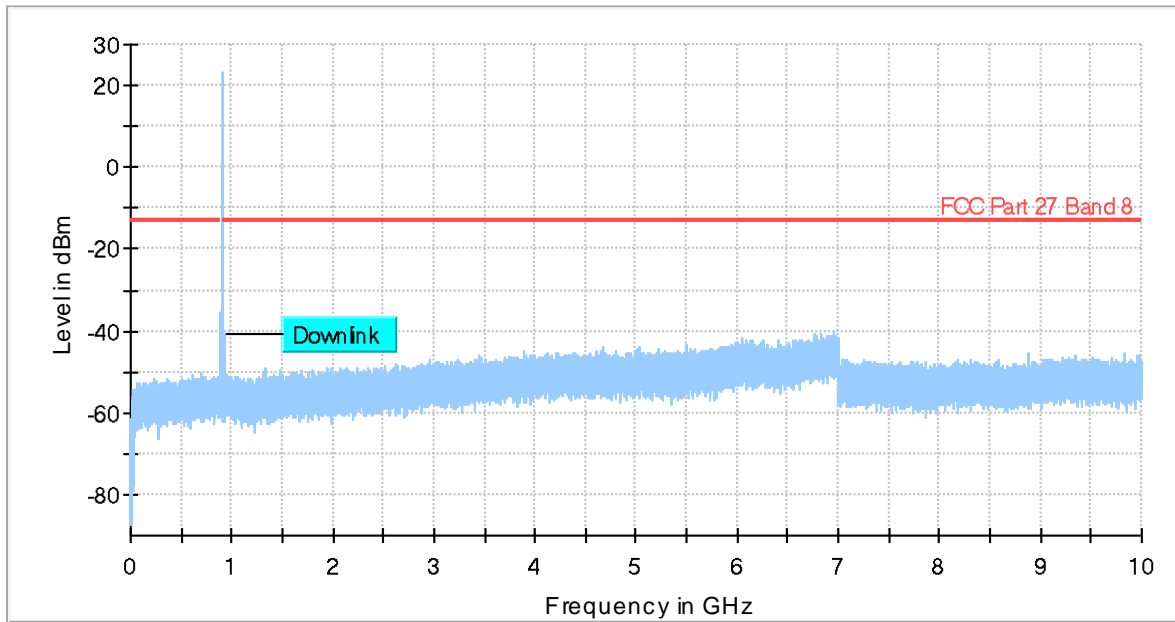
Full Spectrum



The peak above the limit is the carrier frequency.
 The highest peak next to the carrier is the Downlink frequency.

High Channel:

Full Spectrum



Preview Result 1-PK+ FCC Part 27 Band 8 Final Result PK+

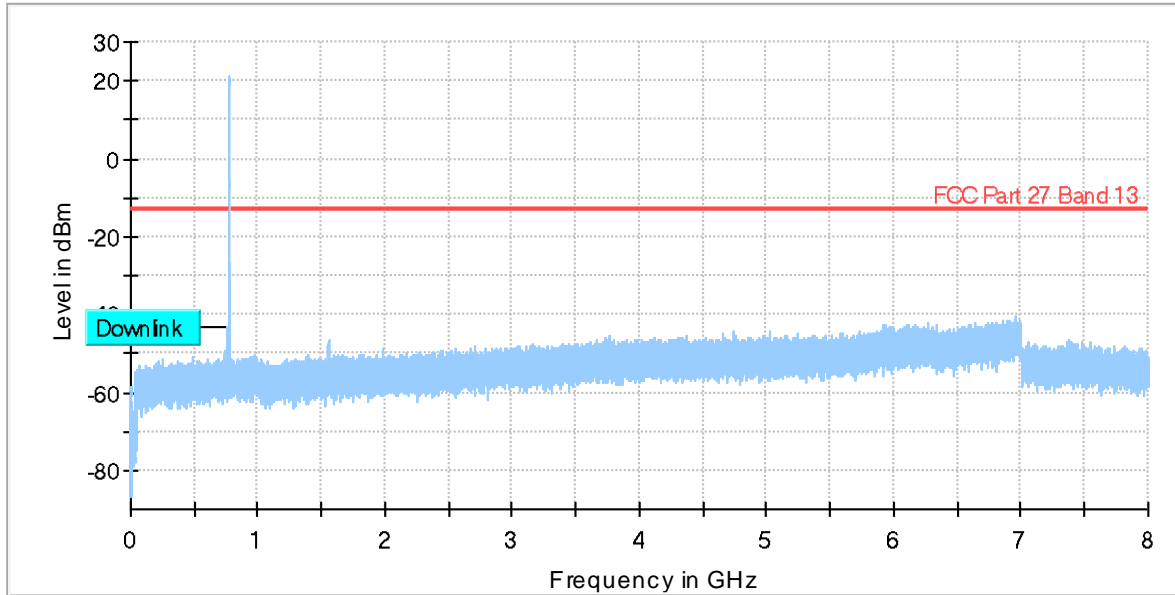
The peak above the limit is the carrier frequency.
The highest peak next to the carrier is the Downlink frequency.

LTE Cat-M1 Band 13. BW=5 MHz. QPSK. RB Size 1. RB Offset 0. Narrowband 0.

Low Channel:

- Frequency range 9 kHz – 8 GHz:

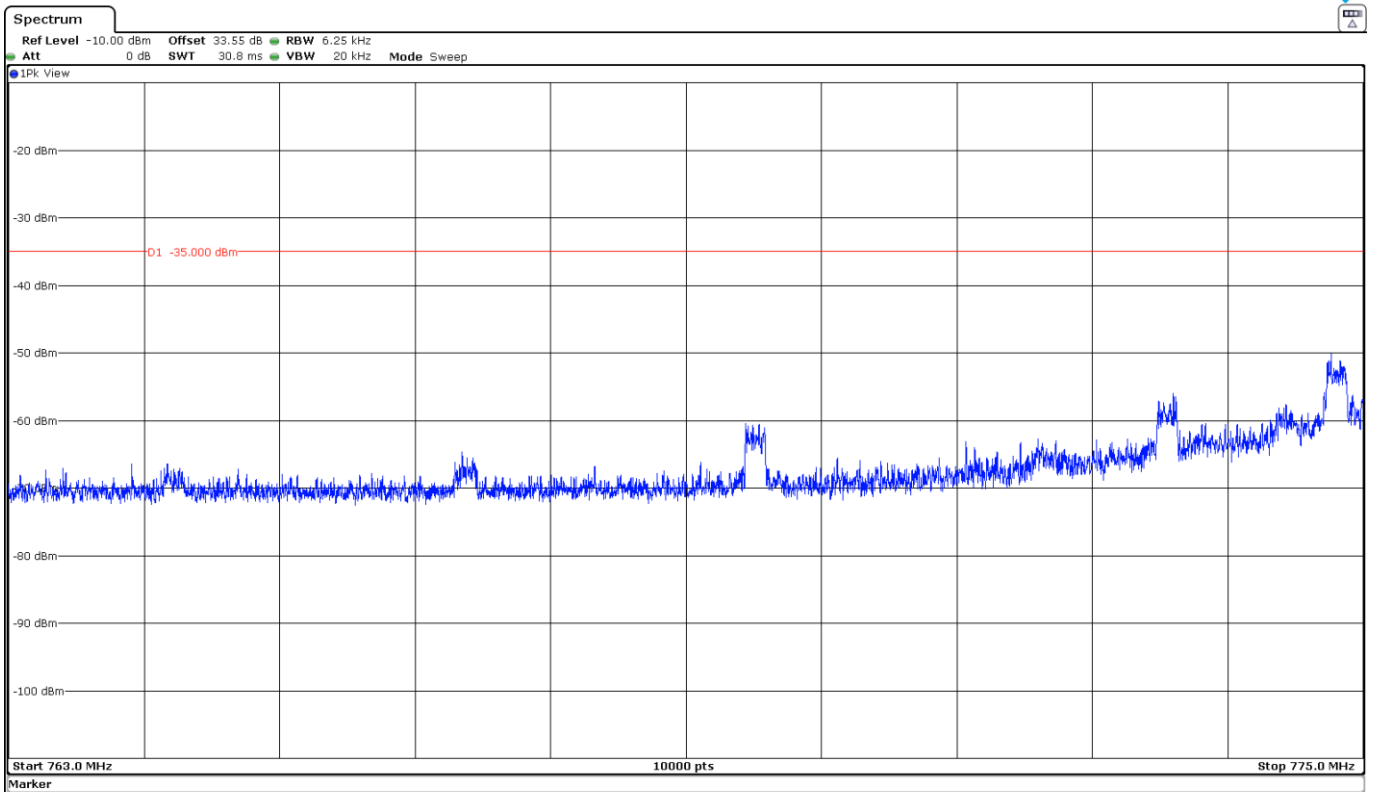
Full Spectrum



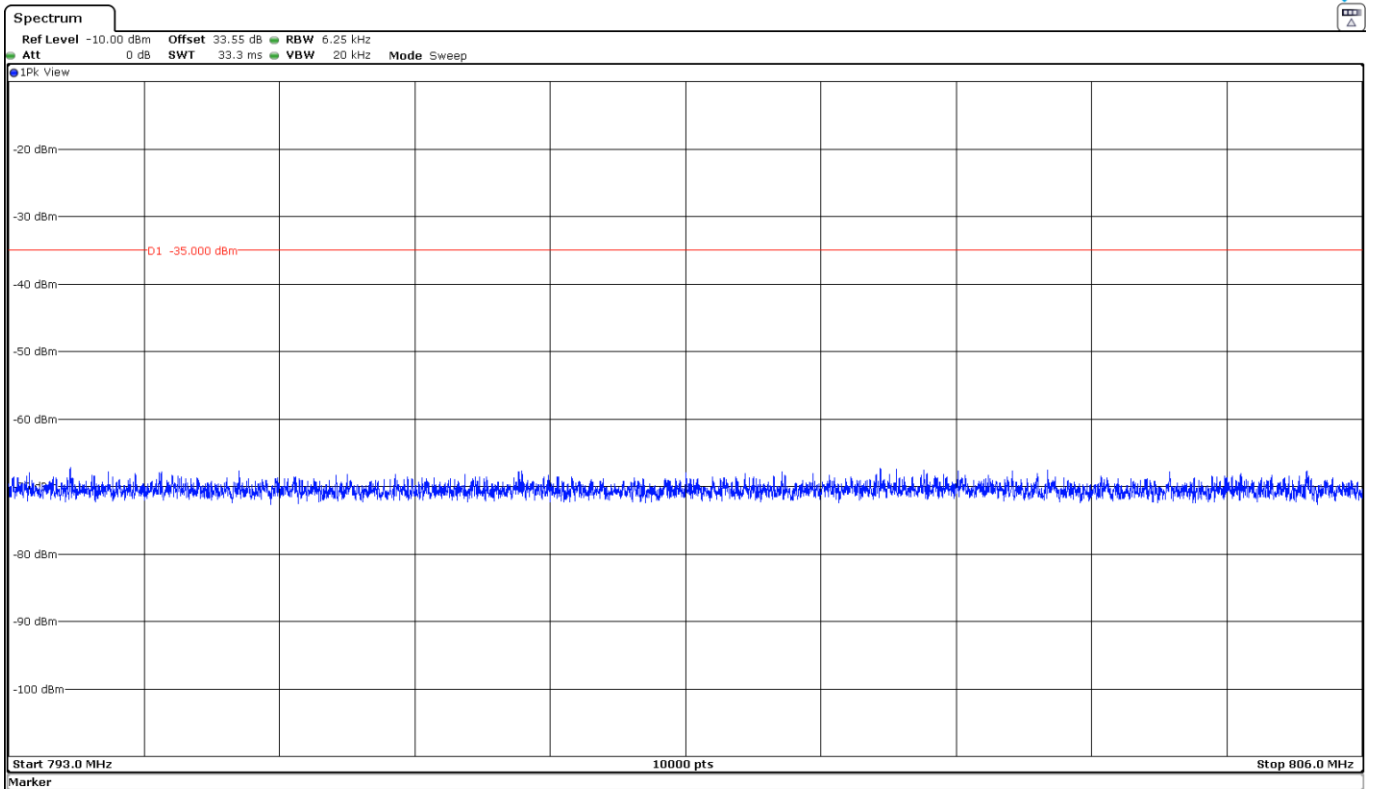
— Preview Result 1-PK+ * FK+
— FCC Part 27 Band 13 ◆ Final_Result FK+

The peak above the limit is the carrier frequency.
The highest peak next to the carrier is the Downlink frequency.

- Frequency range 763 MHz – 775 MHz:



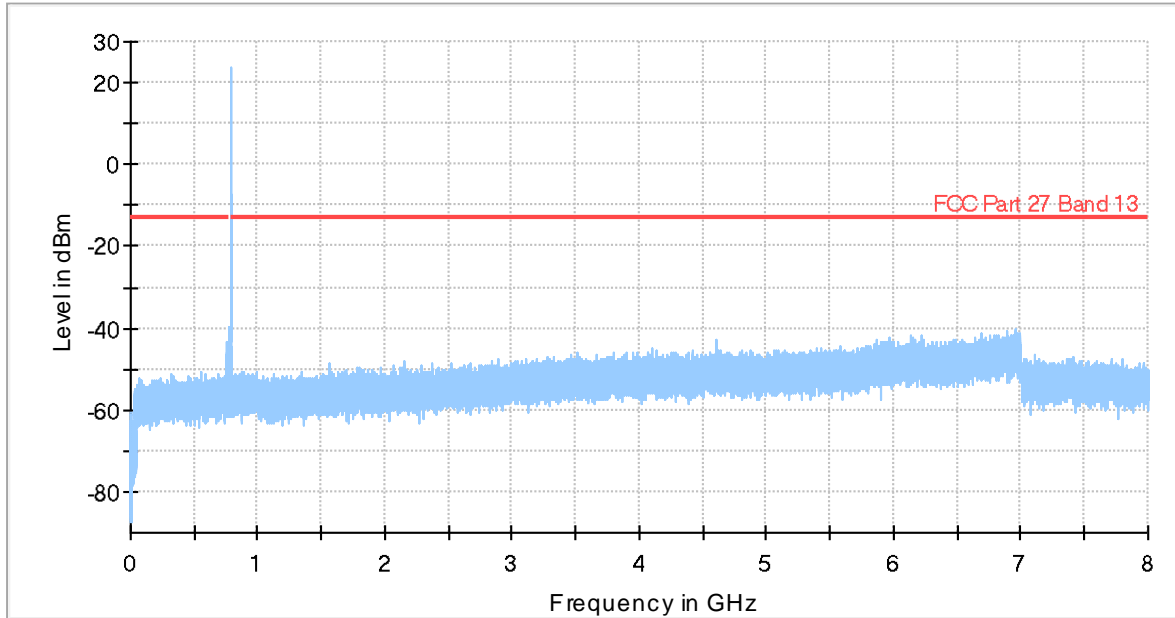
- Frequency range 793 MHz – 806 MHz:



High Channel:

- Frequency range 9 kHz – 8 GHz:

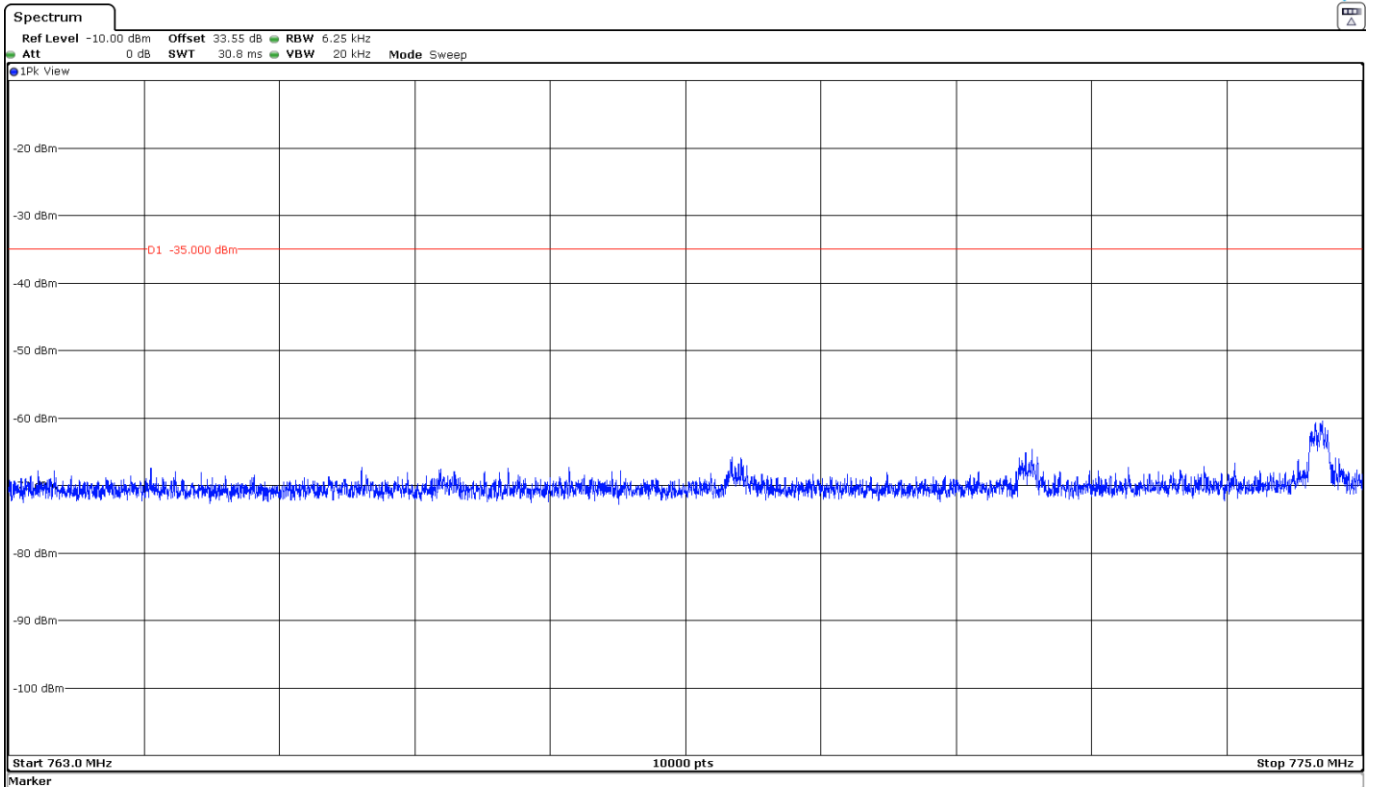
Full Spectrum



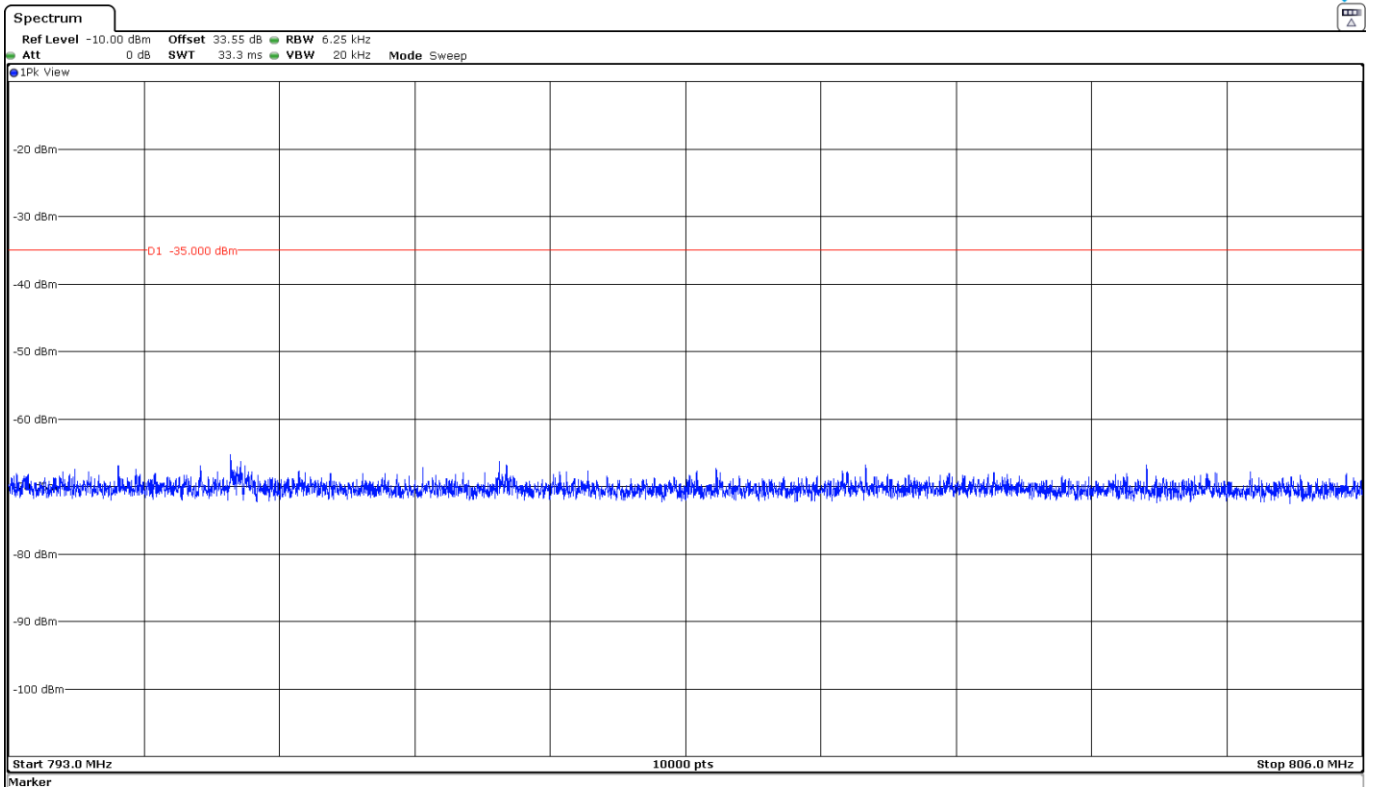
Preview Result 1-PK+ FCC Part 27 Band 13 Final_Result PK+

The peak above the limit is the carrier frequency.
The highest peak next to the carrier is the Downlink frequency.

- Frequency range 763 MHz – 775 MHz:



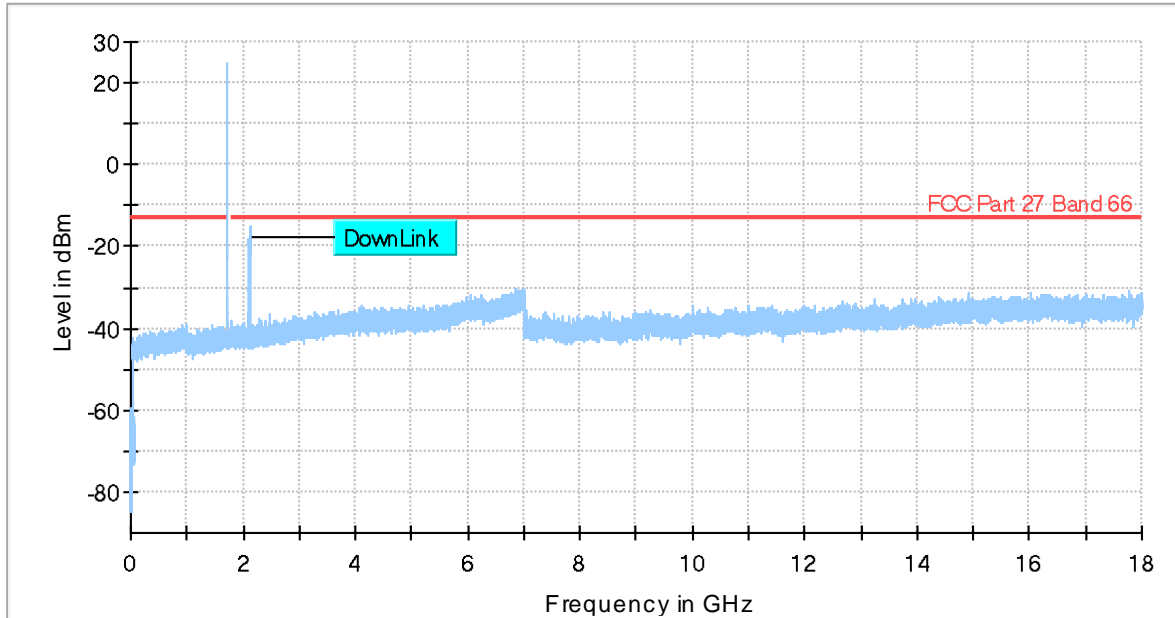
- Frequency range 793 MHz – 806 MHz:



LTE Cat-M1 Band 66. BW=15 MHz. QPSK. RB Size 6. RB Offset 0. Narrowband 0.

Low Channel:

Full Spectrum

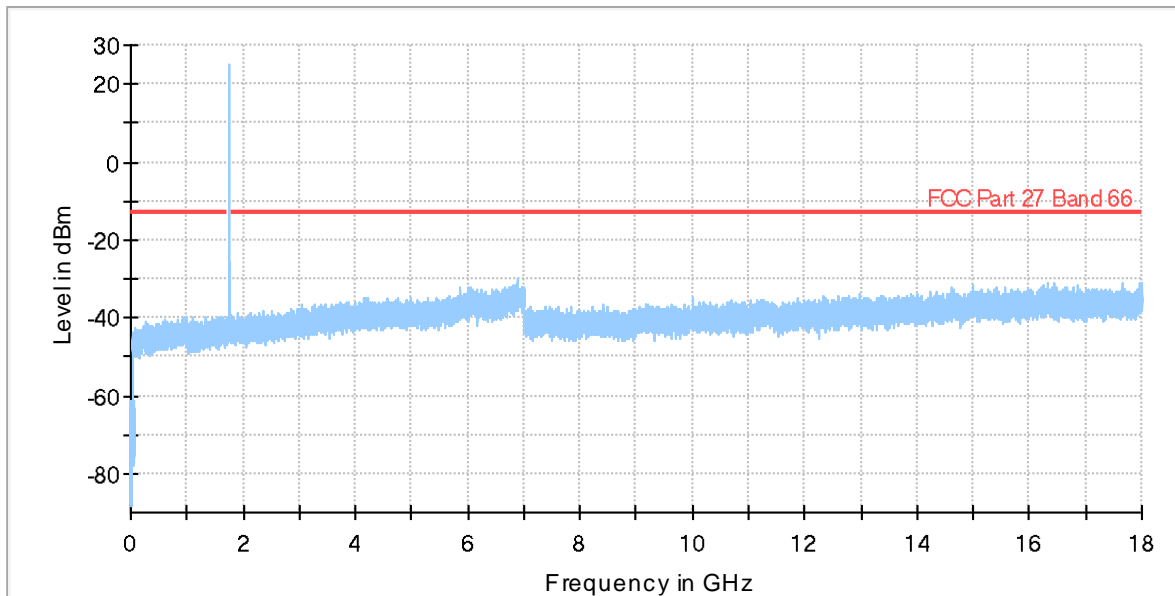


Preview Result 1-PK+ FCC Part 27 Band 66 Final_Result PK+

The peak above the limit is the carrier frequency.
 The highest peak next to the carrier is the Downlink frequency.

Middle Channel:

Full Spectrum

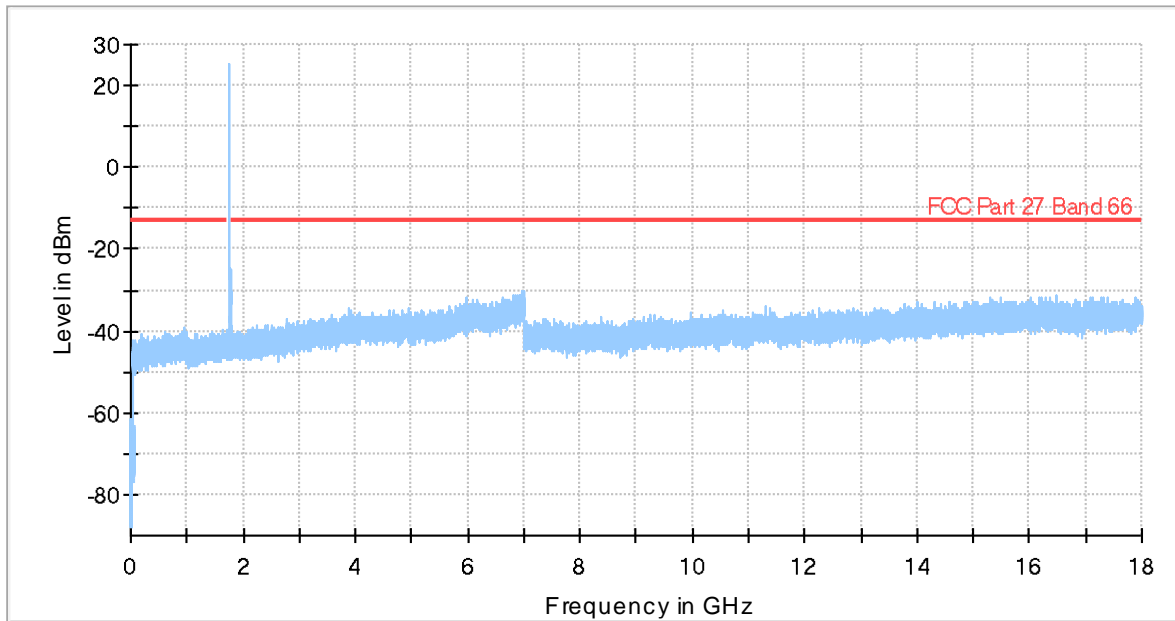


Preview Result 1-PK+ * FK+
 FCC Part 27 Band 66 ◆ Final_Result PK+

The peak above the limit is the carrier frequency.
 The highest peak next to the carrier is the Downlink frequency.

High Channel:

Full Spectrum



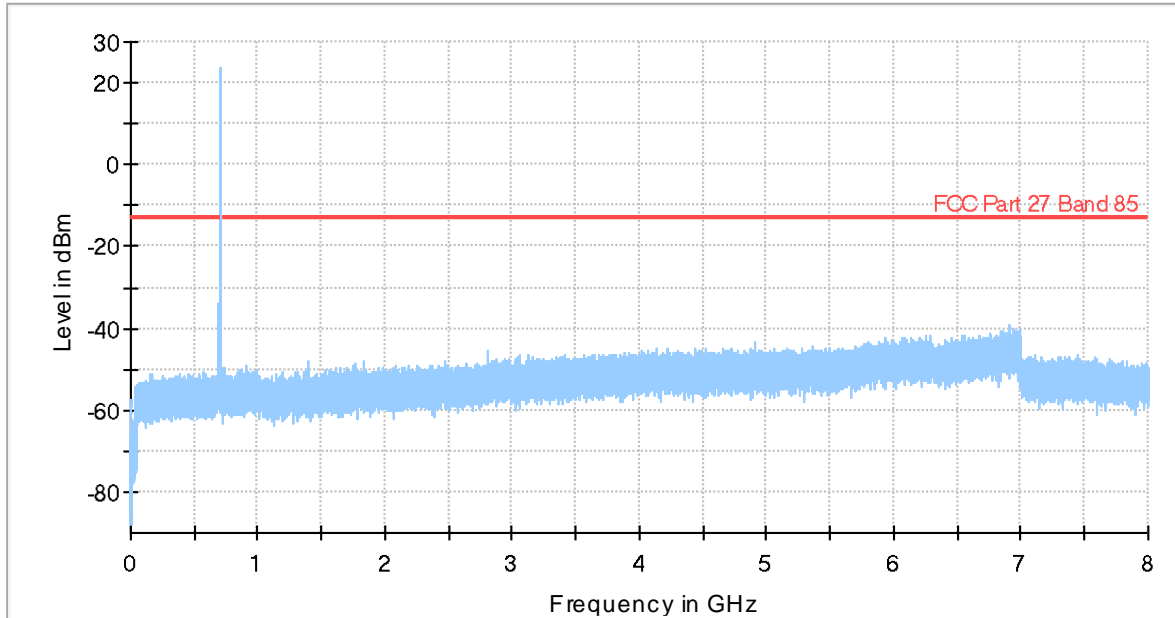
— Preview Result 1-PK+ — FCC Part 27 Band 66 ◆ Final_Result PK+

The peak above the limit is the carrier frequency.
The highest peak next to the carrier is the Downlink frequency.

LTE Cat-M1 Band 85. BW=5 MHz. QPSK. RB Size 1. RB Offset 2. Narrowband 1.

Low Channel:

Full Spectrum

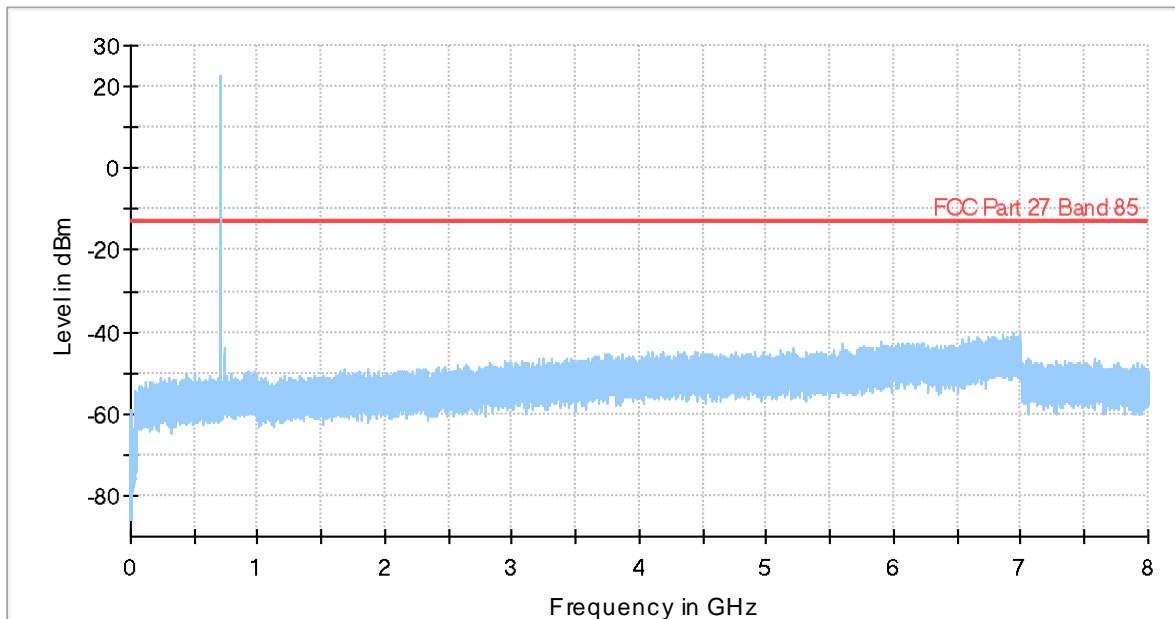


— Preview Result 1-PK+ — FCC Part 27 Band 85 ◆ Final_Result PK+

The peak above the limit is the carrier frequency.
The highest peak next to the carrier is the Downlink frequency.

Middle Channel:

Full Spectrum

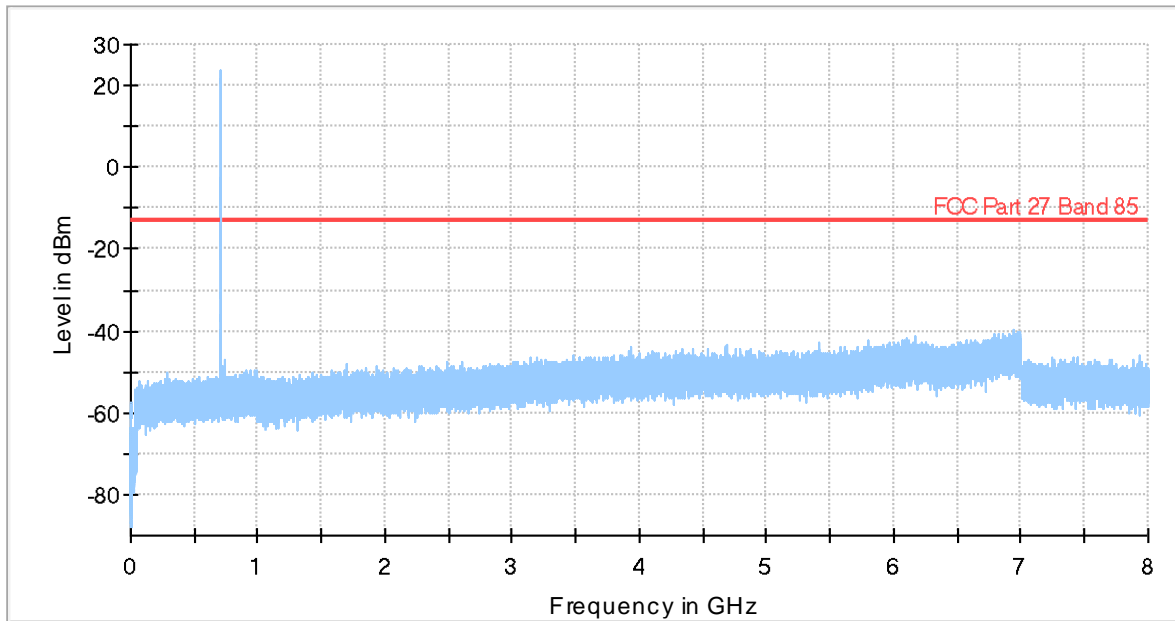


— Preview Result 1-PK+ — FCC Part 27 Band 85 ◆ Final_Result PK+

The peak above the limit is the carrier frequency.
The highest peak next to the carrier is the Downlink frequency.

High Channel:

Full Spectrum



— Preview Result 1-PK+ — FCC Part 27 Band 85 ◆ Final_Result PK+

The peak above the limit is the carrier frequency.
The highest peak next to the carrier is the Downlink frequency.

Spurious Emissions at Antenna Terminals at Block Edges

Limits

1. LTE Cat-M1 Band 8. FCC §27.1509 (a).

FCC §27.1509 (a):

The power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) in watts by at least the following amounts:

- (a) For 900 MHz broadband operations in 897.5–900.5 MHz band by at least $43 + 10 \log (P)$ dB.

2. LTE Cat-M1 Band 13.

FCC §27.53 (c):

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. Compliance is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater.

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. Compliance is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment.

RSS-130 4.7.1 and 4.7.2:

4.7.1 General unwanted emissions limits:

The unwanted emissions in any 100 kHz bandwidth on any frequency outside the low frequency edge and the high frequency edge of each frequency block range(s), shall be attenuated below the transmitter power, P (dBW), by at least $43 + 10 \log_{10} p$ (watts), dB. However, in the 100 kHz band immediately outside of the equipment's frequency block range, a resolution bandwidth of 30 kHz may be employed.

4.7.2 Additional unwanted emissions limits:

In addition to the limit outlined in section 4.7.1 above, equipment operating in the frequency bands 746-756 MHz and 777-787 MHz shall also comply with the following restrictions:

a. the power of any unwanted emissions in any 6.25 kHz bandwidth for all frequencies between 763-775 MHz and 793-806 MHz shall be attenuated below the transmitter power, P (dBW), by at least:

- i. $76 + 10 \log_{10} p$ (watts), dB, for base and fixed equipment and
- ii. $65 + 10 \log_{10} p$ (watts), dB, for mobile and portable equipment

b. the e.i.r.p. in the band 1559-1610 MHz shall not exceed -70 dBW/MHz for wideband signal and -80 dBW for discrete emission with bandwidth less than 700 Hz.

3. LTE Cat-M1 Band 66.

FCC §27.53 (h). RSS-139. Clause 6.6:

According to specification. for operations in the 1695-1710 MHz. 1710-1755 MHz. 1755-1780 MHz. 1915-1920 MHz. 1995-2000 MHz. 2000-2020 MHz. 2110-2155 MHz. 2155-2180 MHz. and 2180-2200 bands. 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. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater.

4. LTE Cat-M1 Band 85.

FCC §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.

RSS-130. Clause 4.7.1:

The unwanted emissions in any 100 kHz bandwidth on any frequency outside the low frequency edge and the high frequency edge of each frequency block range(s). shall be attenuated below the transmitter power. P (dBW). by at least $43 + 10 \log_{10} p$ (watts). dB.

At P_o transmitting power. the specified minimum attenuation becomes $43+10 \log (P_o)$. and the level in dBm relative to P_o becomes:

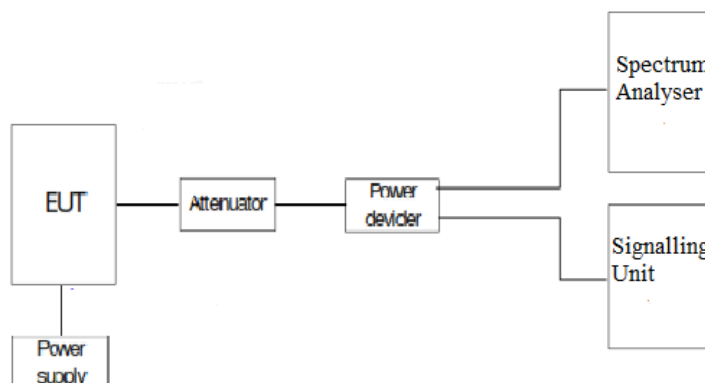
$$P_o \text{ (dBm)} - [43 + 10 \log (P_o \text{ in mW}) - 30] = -13 \text{ dBm}$$

Method

The EUT RF output connector was connected to a spectrum analyser and to the Universal Radio Communication tester R&S CMW500 (selecting maximum transmission power of the EUT and different modes of modulation) using a 50-Ohm attenuator and a power splitter.

The reading of the spectrum analyser is corrected with the attenuation loss of connection between output terminal of EUT and input of the spectrum analyser.

Test Setup



Results

LTE Cat-M1 Band 4:

Preliminary measurements determined QPSK. BW=1.4 MHz as the worst-case modulation in terms of band edge results. The next results are for this worst-case configuration.

Low Block Edge. Narrowband= 0.

Note: Low Block Edge for LTE Cat-M1 Band 4 is the same as for LTE Cat-M1 Band 66.

High Block Edge. Narrowband= Max.

LTE Cat-M1 Band 4. QPSK:	RB=1. Offset=Max. BW = 1.4 MHz	RB=1. Offset=Max. BW = 3 MHz	RB=1. Offset=Max. BW = 5 MHz	RB=1. Offset=Max. BW = 10 MHz	RB=1. Offset=Max. BW = 15 MHz	RB=1. Offset=Max. BW = 20 MHz
Maximum measured level at <u>High Block Edge</u> at antenna port (dBm)	-19.15	-33.57	-29.99	-43.16	-45.4	-46.63

LTE Cat-M1 Band 4. QPSK:	RB=ALL. Offset=0. BW = 1.4 MHz	RB=All. Offset=0. BW = 3 MHz	RB = All. Offset = 0. BW = 5 MHz	RB = All. Offset = 0. BW = 10 MHz	RB = All. Offset = 0. BW = 15 MHz	RB = All. Offset = 0. BW = 20 MHz
Maximum measured level at <u>High Block Edge</u> at antenna port (dBm)	-28.22	-34.32	-29.28	-33.41	-31.06	-42

Measurement uncertainty: $\pm 2.76\text{ dB}$

Verdict

PASS

LTE Cat-M1 Band 8:

Preliminary measurements determined QPSK. BW=1.4 MHz as the worst-case modulation in terms of band edge results. The next results are for this worst-case configuration.

Low Block Edge. Narrowband= 0.

LTE Cat-M1 Band 8. QPSK:	RB=1. Offset=0. BW = 1.4 MHz	RB=1. Offset=0. BW = 3 MHz
Maximum measured level at <u>Low Block Edge</u> at antenna port (dBm)	-23.22	-29.62

LTE Cat-M1 Band 8. QPSK:	RB = All. Offset = 0. BW = 1.4 MHz	RB = All. Offset = 0. BW = 3 MHz
Maximum measured level at <u>Low Block Edge</u> at antenna port (dBm)	-29.25	-29.91

High Block Edge. Narrowband= Max.

LTE Cat-M1 Band 8. QPSK:	RB=1. Offset=Max. BW = 1.4 MHz	RB=1. Offset=Max. BW = 3 MHz
Maximum measured level at <u>High Block Edge</u> at antenna port (dBm)	-23.54	-33.26

LTE Cat-M1 Band 8. QPSK:	RB = All. Offset = 0. BW = 1.4 MHz	RB = All. Offset = 0. BW = 3 MHz
Maximum measured level at <u>High Block Edge</u> at antenna port (dBm)	-26.99	-30.44

Measurement uncertainty: <±2.76 dB

Verdict

PASS

LTE Cat-M1 Band 12:

Preliminary measurements determined QPSK. BW=5 MHz as the worst-case modulation in terms of band edge results. The next results are for this worst-case configuration.

Low Block Edge. Narrowband= 0.

LTE Cat-M1 Band 12. QPSK:	RB=1. Offset = 0. BW = 1.4 MHz	RB=1. Offset = 0. BW = 3 MHz	RB=1. Offset = 0. BW = 5 MHz	RB=1. Offset = 0. BW = 10 MHz
Maximum measured level at <u>Low Block Edge</u> at antenna port (dBm)	-42	-41.64	-41.69	-42.26

LTE Cat-M1 Band 12. QPSK:	RB = All. Offset = 0. BW = 1.4 MHz	RB = All. Offset = 0. BW = 3 MHz	RB = All. Offset = 0. BW = 5 MHz	RB = All. Offset = 0. BW = 10 MHz
Maximum measured level at <u>Low Block Edge</u> at antenna port (dBm)	-46.16	-47.78	-43.52	-45.52

High Block Edge. Narrowband= Max.

LTE Cat-M1 Band 12. QPSK:	RB=1. Offset=Max. BW = 1.4 MHz	RB=1. Offset=Max. BW = 3 MHz	RB=1. Offset=Max. BW = 5 MHz	RB=1. Offset=Max. BW = 10 MHz
Maximum measured level at <u>High Block Edge</u> at antenna port (dBm)	-19.26	-32.33	-26.56	-37.19

LTE Cat-M1 Band 12. QPSK:	RB = All. Offset = 0. BW = 1.4 MHz	RB = All. Offset = 0. BW = 3 MHz	RB = All. Offset = 0. BW = 5 MHz	RB = All. Offset = 0. BW = 10 MHz
Maximum measured level at <u>High Block Edge</u> at antenna port (dBm)	-24.04	-25.65	-21.08	-26.56

Measurement uncertainty: $\pm 2.76\text{ dB}$

Verdict

PASS

LTE Cat-M1 Band 13:

Preliminary measurements determined QPSK. BW=5 MHz as the worst-case modulation in terms of band edge results. The next results are for this worst-case configuration.

Low Block Edge. Narrowband= 0.

LTE Cat-M1 Band 13. QPSK:	RB=1. Offset = 0. BW = 5 MHz	RB=1. Offset = 0. BW = 10 MHz
Maximum measured level at <u>Low Block Edge</u> at antenna port (dBm)	-29.65	-36.66

LTE Cat-M1 Band 13. QPSK:	RB = All. Offset = 0. BW = 5 MHz	RB = All. Offset = 0. BW = 10 MHz
Maximum measured level at <u>Low Block Edge</u> at antenna port (dBm)	-20.66	-25.73

High Block Edge. Narrowband= Max.

LTE Cat-M1 Band 13. QPSK:	RB=1. Offset=Max. BW = 5 MHz	RB=1. Offset=Max. BW = 10 MHz
Maximum measured level at <u>High Block Edge</u> at antenna port (dBm)	-28.93	-36.4

LTE Cat-M1 Band 13. QPSK:	RB = All. Offset = 0. BW = 5 MHz	RB = All. Offset = 0. BW = 10 MHz
Maximum measured level at <u>High Block Edge</u> at antenna port (dBm)	-20.65	-26.88

Measurement uncertainty: $\pm 2.76\text{ dB}$

Verdict

PASS

LTE Cat-M1 Band 66:

Preliminary measurements determined QPSK. BW=1.4 MHz as the worst-case modulation in terms of band edge results. The next results are for this worst-case configuration.

Low Block Edge. Narrowband= 0.

LTE Cat-M1 Band 66. QPSK:	RB=1. Offset = 0. BW = 1.4 MHz	RB=1. Offset = 0. BW = 3 MHz	RB=1. Offset = 0. BW = 5 MHz	RB=1. Offset = 0. BW = 10 MHz	RB=1. Offset = 0. BW = 15 MHz	RB=1. Offset = 0. BW = 20 MHz
Maximum measured level at <u>Low Block Edge</u> at antenna port (dBm)	-17.56	-31.09	-29.01	-42.45	-44.91	-45.14

LTE Cat-M1 Band 66. QPSK:	RB = 6. Offset = 0. BW = 1.4 MHz	RB = 6. Offset = 0. BW = 3 MHz	RB = 6. Offset = 0. BW = 5 MHz	RB = 6. Offset = 0. BW = 10 MHz	RB = 6. Offset = 0. BW = 15 MHz	RB = 6. Offset = 0. BW = 20 MHz
Maximum measured level at <u>Low Block Edge</u> at antenna port (dBm)	-27.38	-32.28	-26.43	-30.67	-31.18	-41.4

High Block Edge. Narrowband= Max.

LTE Cat-M1 Band 66. QPSK:	RB=1. Offset=Max. BW = 1.4 MHz	RB=1. Offset=Max. BW = 3 MHz	RB=1. Offset=Max. BW = 5 MHz	RB=1. Offset=Max. BW = 10 MHz	RB=1. Offset=Max. BW = 15 MHz	RB=1. Offset=Max. BW = 20 MHz
Maximum measured level at <u>High Block Edge</u> at antenna port (dBm)	-18.55	-32.19	-29.21	-41.97	-44.28	-44.43

LTE Cat-M1 Band 66. QPSK:	RB = 6. Offset =0. BW = 1.4 MHz	RB = 6. Offset =0. BW = 3 MHz	RB = 6. Offset =0. BW = 5 MHz	RB = 6. Offset =0. BW = 10 MHz	RB = 6. Offset =0. BW = 15 MHz	RB = 6. Offset =0. BW = 20 MHz
Maximum measured level at <u>High Block Edge</u> at antenna port (dBm)	-26.11	-33.48	-29.1	-33.18	-29.52	-40.33

Measurement uncertainty: $\pm 2.76\text{ dB}$

Verdict

PASS

LTE Cat-M1 Band 85:

Preliminary measurements determined QPSK. BW=5 MHz as the worst-case modulation in terms of band edge results. The next results are for this worst-case configuration.

Low Block Edge. Narrowband=0.

LTE Cat-M1 Band 85. QPSK:	RB=1. Offset = 0. BW = 5 MHz	RB=1. Offset = 0. BW = 10 MHz
Maximum measured level at <u>Low Block Edge</u> at antenna port (dBm)	-27.74	-37.56

LTE Cat-M1 Band 85. QPSK:	RB = 6. Offset = 0. BW = 5 MHz	RB = 6. Offset = 0. BW = 10 MHz
Maximum measured level at <u>Low Block Edge</u> at antenna port (dBm)	-20.64	-27.08

High Block Edge. Narrowband=Max.

Note: High Block Edge for LTE Cat-M1 Band 85 is the same as for LTE Cat-M1 Band 12 for BW 5 MHz and 10 MHz.

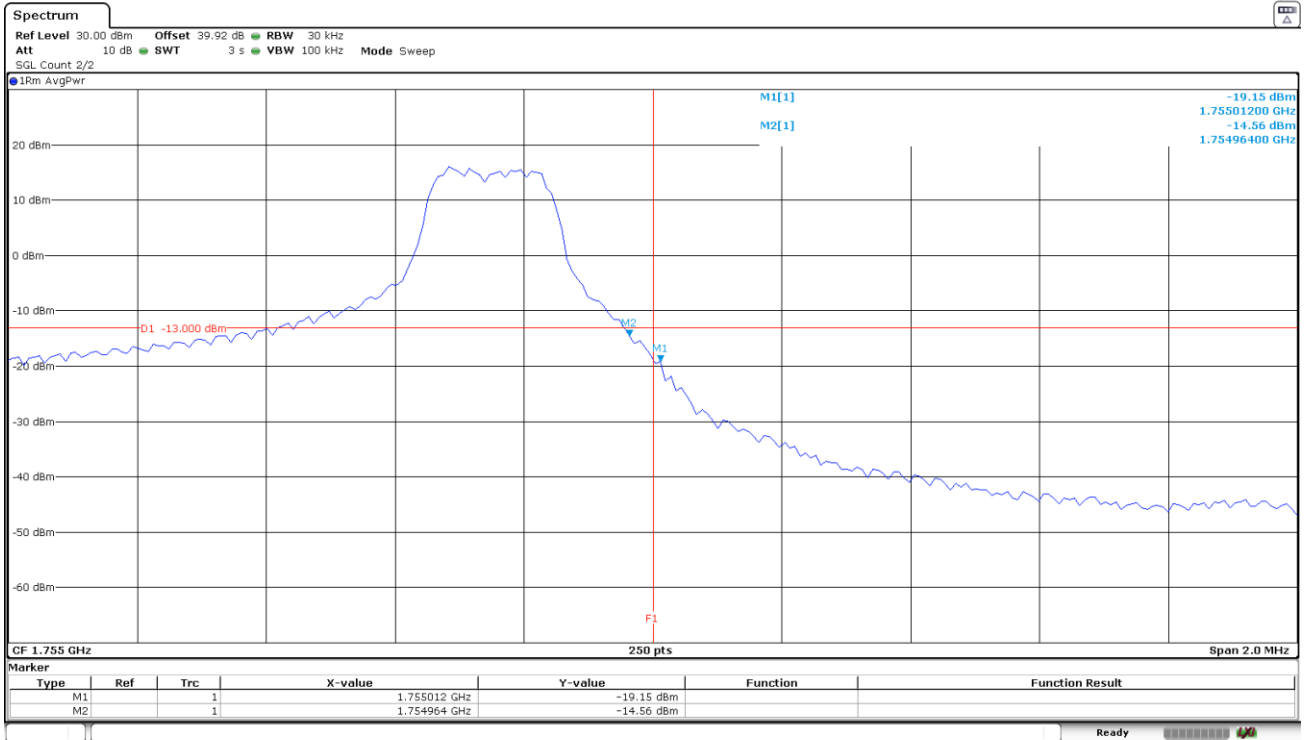
Measurement uncertainty: $\pm 2.76\text{ dB}$

Verdict

PASS

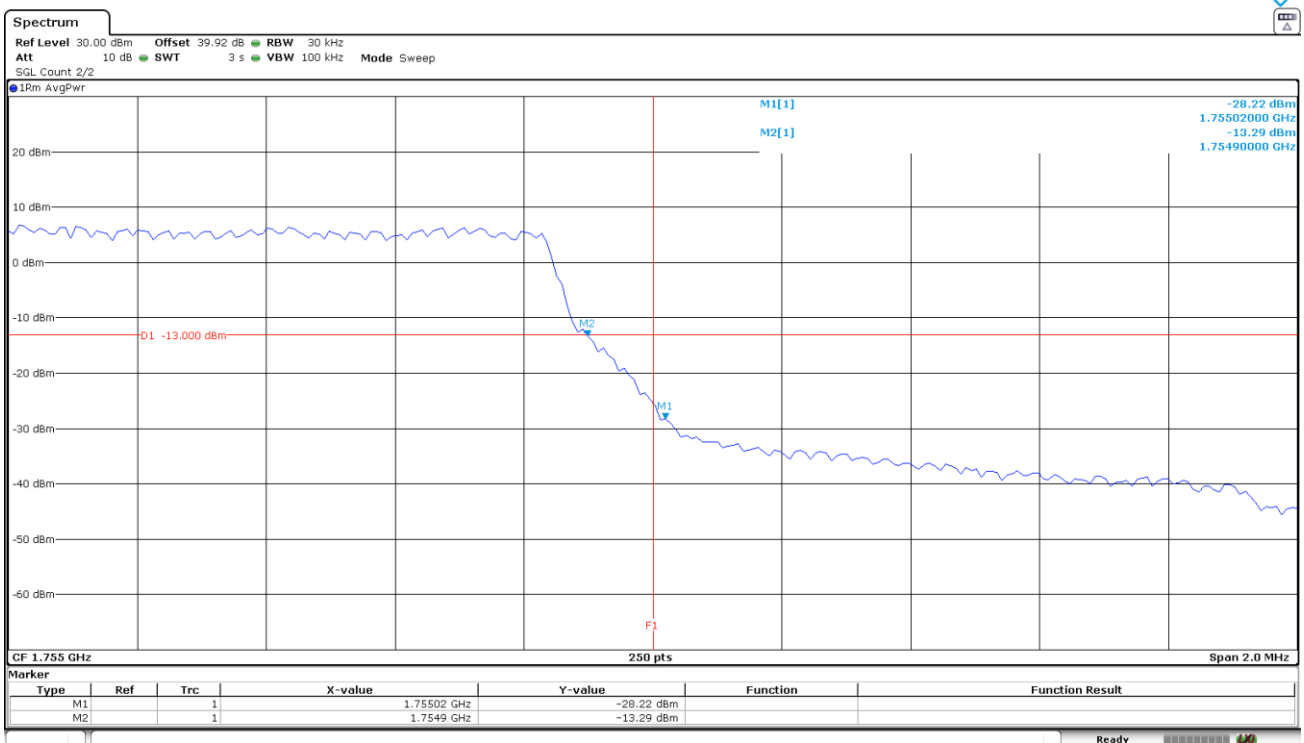
LTE Cat-M1 Band 4:

LTE Cat-M1 Band 4. BW=1.4 MHz. QPSK. RB=1. Offset=Max. Narrowband=Max. High Block Edge:



The equipment transmits at the maximum output power

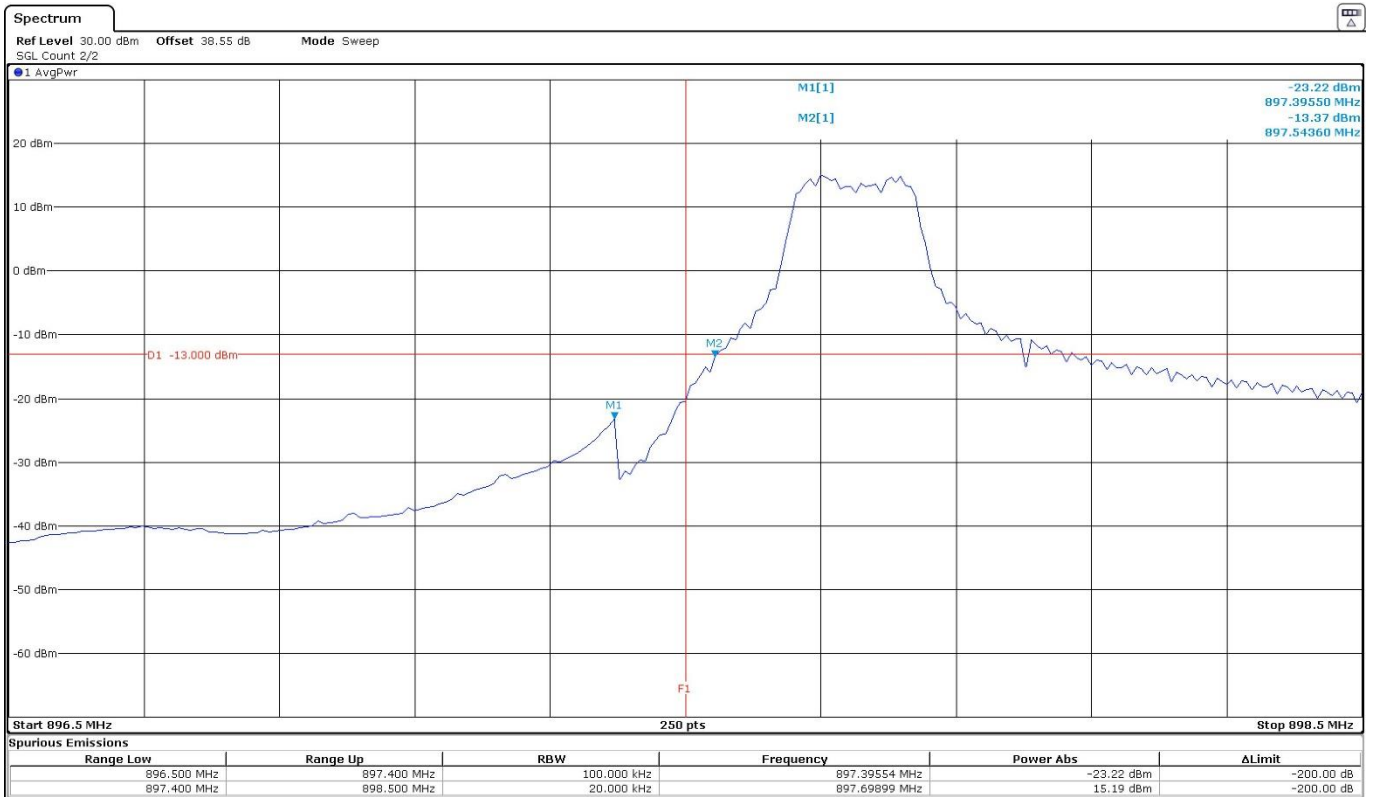
LTE Cat-M1 Band 4. BW=1.4 MHz. QPSK. RB=All. Offset=0. Narrowband=Max. High Block Edge:



The equipment transmits at the maximum output power

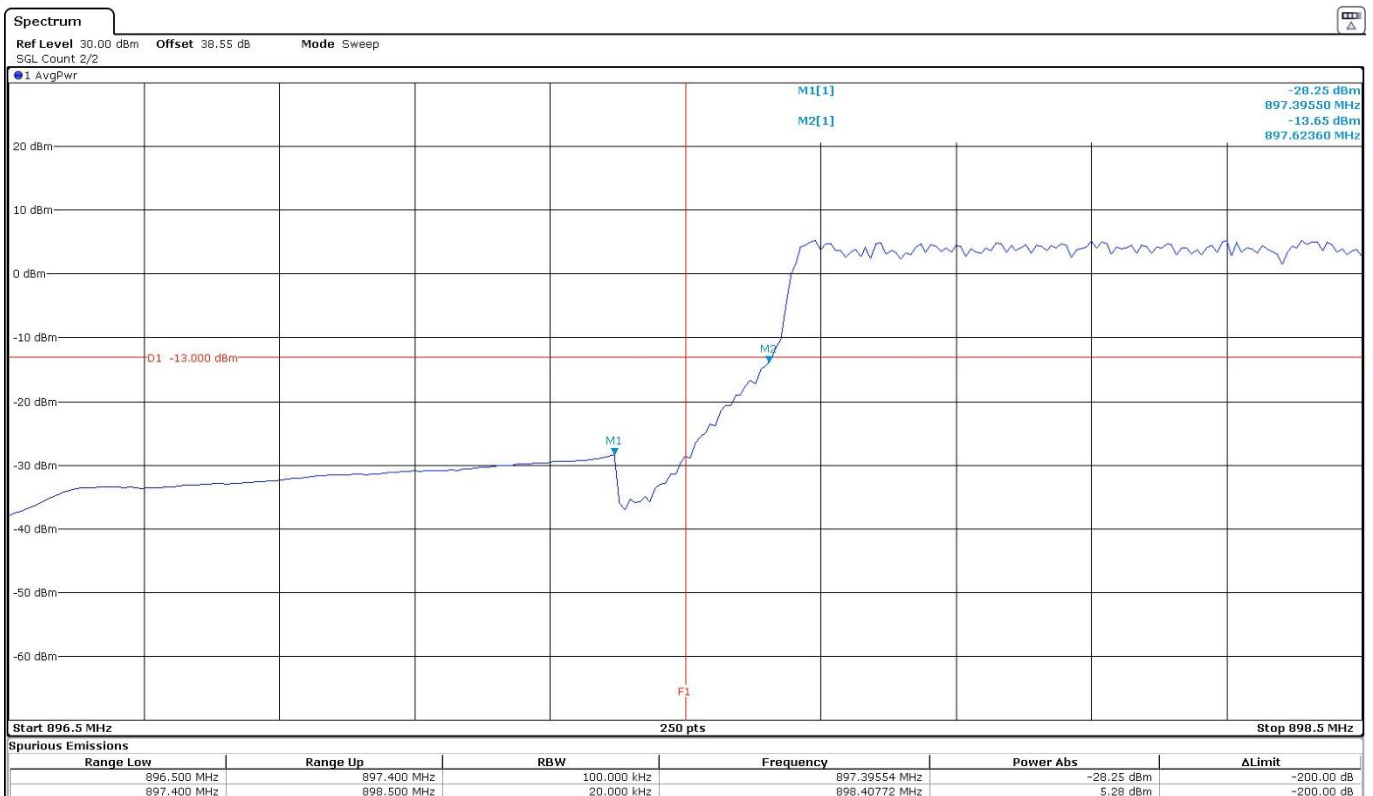
LTE Cat-M1 Band 8:

LTE Cat-M1 Band 8. BW=1.4 MHz. QPSK. RB=1. Offset=0. Narrowband=0. Low Block Edge:



The equipment transmits at the maximum output power

LTE Cat-M1 Band 8. BW=1.4 MHz. QPSK. RB=All. Offset=0. Narrowband=0. Low Block Edge:



The equipment transmits at the maximum output power