

3490.0	-53.4	7.0	8.9	-51.5	V
5235.0	-68.5	5.0	9.9	-63.6	V
6980.0	-70.7	1.0	11.9	-59.8	V
8725.0	-68.1	1.2	11.2	-58.1	V
10470.0	-71.5	0.3	12.2	-59.6	V
12215.0	-71.0	0.3	12.3	-59.0	V

**Test Data (10MHz bandwidth 132322 16QAM Mode)**

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3490.0	-68.1	7.0	8.9	-66.2	V
5235.0	-68.9	5.0	9.9	-64.0	V
6980.0	-73.5	1.0	11.9	-62.6	V
8725.0	-70.7	1.2	11.2	-60.7	V
10470.0	-72.2	0.3	12.2	-60.3	V
12215.0	-71.3	0.3	12.3	-59.3	V

**Test Data (10MHz bandwidth 132621 QPSK Mode)**

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3549.8	-52.9	7.0	8.9	-51.0	V
5324.7	-69.5	4.1	10.5	-63.1	V
7099.6	-67.5	1.1	11.9	-56.7	V
8874.5	-69.2	1.2	11.5	-58.9	V
10649.4	-71.4	0.8	12.2	-60.0	V
12424.3	-70.7	0.4	12.3	-58.8	V

**Test Data (10MHz bandwidth 132621 16QAM Mode)**

Frequency [MHz]	Generator output	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission	Antenna Polarization
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	power(Pg) [dBm]			Power (Pd) [dBm]	[H/V]
3549.8	-68.5	7.0	8.9	-66.6	V
5324.7	-70.4	4.1	10.5	-64.0	V
7099.6	-73.1	1.1	11.9	-62.3	V
8874.5	-70.8	1.2	11.5	-60.5	V
10649.4	-71.7	0.8	12.2	-60.3	V
12424.3	-70.9	0.4	12.3	-59.0	V

**Test Data (15MHz bandwidth 132047 QPSK Mode)**

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3435.0	-51.8	6.9	8.9	-49.8	V
5152.5	-66.8	6.3	9.9	-63.2	V
6870.0	-69.9	0.8	11.9	-58.8	V
8587.5	-69.9	0.9	11.2	-59.6	V
10305.0	-72.3	0.7	12.2	-60.8	V
12022.5	-70.3	0.6	12.2	-58.7	V

**Test Data (15MHz bandwidth 132047 16QAM Mode)**

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3435.0	-68.6	6.9	8.9	-66.6	V
5152.5	-67.5	6.3	9.9	-63.9	V
6870.0	-73.0	0.8	11.9	-61.9	V
8587.5	-70.8	0.9	11.2	-60.5	V
10305.0	-72.6	0.7	12.2	-61.1	V
12022.5	-70.5	0.6	12.2	-58.9	V

**Test Data (15MHz bandwidth 132322 QPSK Mode)****Chongqing Academy of Information and Communication Technology**

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Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3490.0	-53.3	7.0	8.9	-51.4	V
5235.0	-68.5	5.0	9.9	-63.6	V
6980.0	-68.7	1.0	11.9	-57.8	V
8725.0	-67.8	1.2	11.2	-57.8	V
10470.0	-71.8	0.3	12.2	-59.9	V
12215.0	-71.0	0.3	12.3	-59.0	V

**Test Data (15MHz bandwidth 132322 16QAM Mode)**

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3490.0	-68.1	7.0	8.9	-66.2	V
5235.0	-69.2	5.0	9.9	-64.3	V
6980.0	-73.3	1.0	11.9	-62.4	V
8725.0	-70.2	1.2	11.2	-60.2	V
10470.0	-72.0	0.3	12.2	-60.1	V
12215.0	-71.4	0.3	12.3	-59.4	V

**Test Data (15MHz bandwidth 132596 QPSK Mode)**

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3545.0	-54.6	7.0	8.9	-52.7	V
5317.5	-70.0	4.1	10.5	-63.6	V
7090.0	-69.2	1.1	11.9	-58.4	V
8862.5	-69.9	1.2	11.5	-59.6	V
10635.0	-71.1	0.8	12.2	-59.7	V
12407.5	-70.4	0.5	12.3	-58.6	V

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**Test Data (15MHz bandwidth 132596 16QAM Mode)**

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3545.0	-68.6	7.0	8.9	-66.7	V
5317.5	-70.1	4.1	10.5	-63.7	V
7090.0	-72.8	1.1	11.9	-62.0	V
8862.5	-70.7	1.2	11.5	-60.4	V
10635.0	-71.3	0.8	12.2	-59.9	V
12407.5	-71.0	0.5	12.3	-59.2	V

**Test Data (20MHz bandwidth 132072 QPSK Mode)**

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3440.0	-55.5	6.9	8.9	-53.5	V
5160.0	-66.9	6.3	9.9	-63.3	V
6880.0	-70.2	0.8	11.9	-59.1	V
8600.0	-69.0	0.9	11.2	-58.7	V
10320.0	-72.1	0.7	12.2	-60.6	V
12040.0	-70.2	0.6	12.2	-58.6	V

**Test Data (20MHz bandwidth 132072 16QAM Mode)**

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3440.0	-68.9	6.9	8.9	-66.9	V
5160.0	-66.9	6.3	9.9	-63.3	V
6880.0	-73.3	0.8	11.9	-62.2	V
8600.0	-71.2	0.9	11.2	-60.9	V
10320.0	-72.0	0.7	12.2	-60.5	V

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12040.0	-70.9	0.6	12.2	-59.3	V
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**Test Data (20MHz bandwidth 132322 QPSK Mode)**

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3490.0	-55.7	7.0	8.9	-53.8	V
5235.0	-68.9	5.0	9.9	-64.0	V
6980.0	-68.9	1.0	11.9	-58.0	V
8725.0	-68.8	1.2	11.2	-58.8	V
10470.0	-71.8	0.3	12.2	-59.9	V
12215.0	-70.8	0.3	12.3	-58.8	V

**Test Data (20MHz bandwidth 132322 16QAM Mode)**

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3490.0	-68.2	7.0	8.9	-66.3	V
5235.0	-68.8	5.0	9.9	-63.9	V
6980.0	-73.2	1.0	11.9	-62.3	V
8725.0	-70.2	1.2	11.2	-60.2	V
10470.0	-72.3	0.3	12.2	-60.4	V
12215.0	-71.2	0.3	12.3	-59.2	V

**Test Data (20MHz bandwidth 132571 QPSK Mode)**

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3539.8	-55.3	7.0	8.9	-53.4	V
5309.7	-69.3	4.7	10.5	-63.5	V
7079.6	-67.5	1.1	11.9	-56.7	V
8849.5	-70.1	1.2	11.5	-59.8	V

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10619.4	-71.5	0.8	12.2	-60.1	V
12389.3	-70.7	0.2	12.3	-58.6	V

**Test Data (20MHz bandwidth 132571 16QAM Mode)**

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3539.8	-68.4	7.0	8.9	-66.5	V
5309.7	-69.4	4.7	10.5	-63.6	V
7079.6	-73.3	1.1	11.9	-62.5	V
8849.5	-70.5	1.2	11.5	-60.2	V
10619.4	-71.5	0.8	12.2	-60.1	V
12389.3	-71.1	0.2	12.3	-59.0	V

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## 6.7. Band Edge

<b>Specifications:</b>	FCC Part 2.1051, 24.238, 2.1053, 22.917, 27.53
<b>DUT Serial Number:</b>	860710050007536
<b>Test conditions:</b>	Ambient Temperature:15°C-35°C Relative Humidity:30%-60% Air pressure: 86-106kPa
<b>Test Results:</b>	Pass

### Limit Level Construction:

**According to Part 22.917 (a)**, i.e., Out of Band emissions. 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.

**According to Part 24.238 (a)**, i.e., Out of Band emissions. 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, so the limit level is:  $P(\text{dBm}) - (43 + 10 \log(P)) \text{ dB} = -13\text{dBm}$ .

### According to Part 27.53(h):

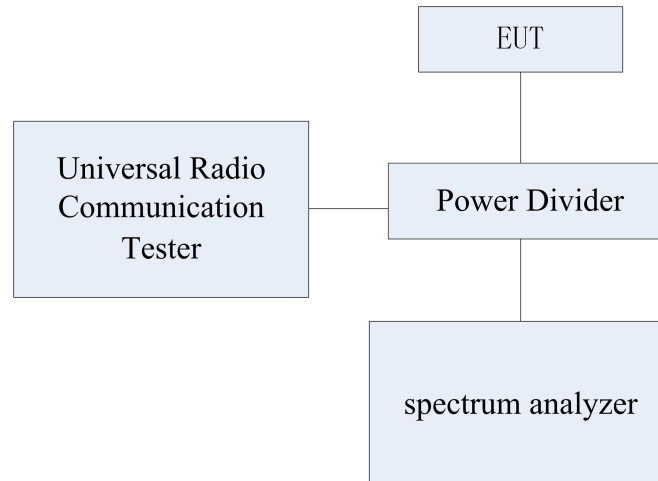
Except as otherwise specified below, for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 Bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least  $43 + 10 \log_{10}(P)$  dB.

### According to Part 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.

**Test Setup:**

During the test, the EUT was controlled via the Wireless Communications Test Set to ensure max power transmission and proper modulation and measured by spectrum analyzer.

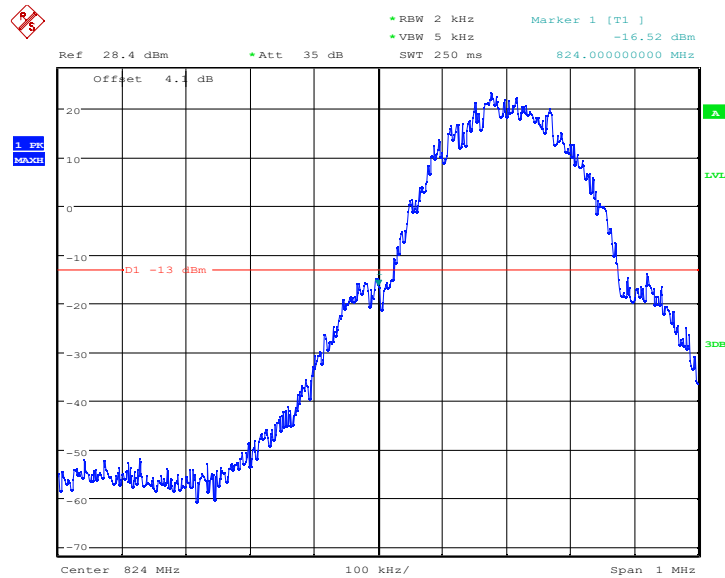
**Test Method:**

- 1) The EUT was coupled to the EMI test receiver analyzer mode and the base station simulator through a power divider. The loss of the cables the test system is calibrated to correct the readings.
- 2) The spectrum analyzer was set to Average Detector function and Maximum hold mode.
- 3) The resolution Bandwidth of the spectrum analyzer was a little greater than 1% of the 26dB emission Bandwidth.

**Note:** In the graphical result description (X, Y), X represents the number of RB, Y represents the RB offset.

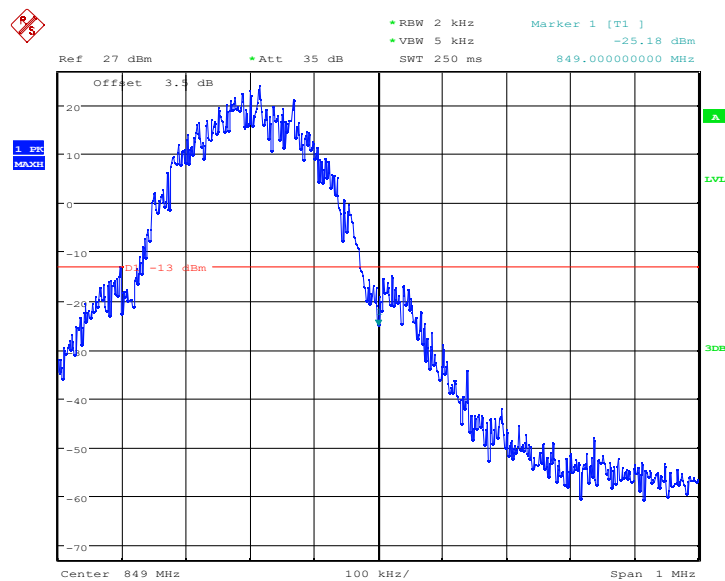


### 6.7.1 GSM850 Band Edge Results



Date: 11.NOV.2021 21:28:02

#### GMSK; Cellular low channel, below 824 MHz

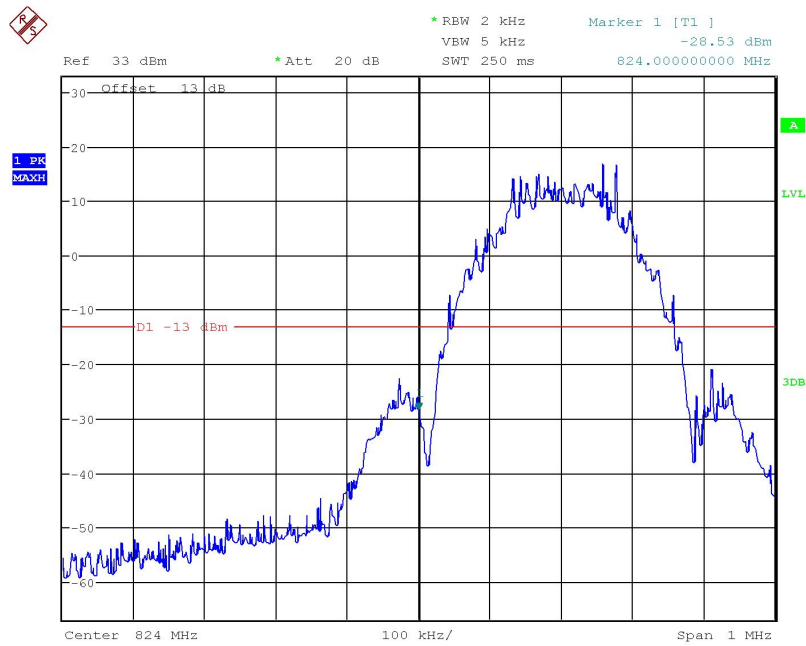


Date: 9.SEP.2021 09:46:21

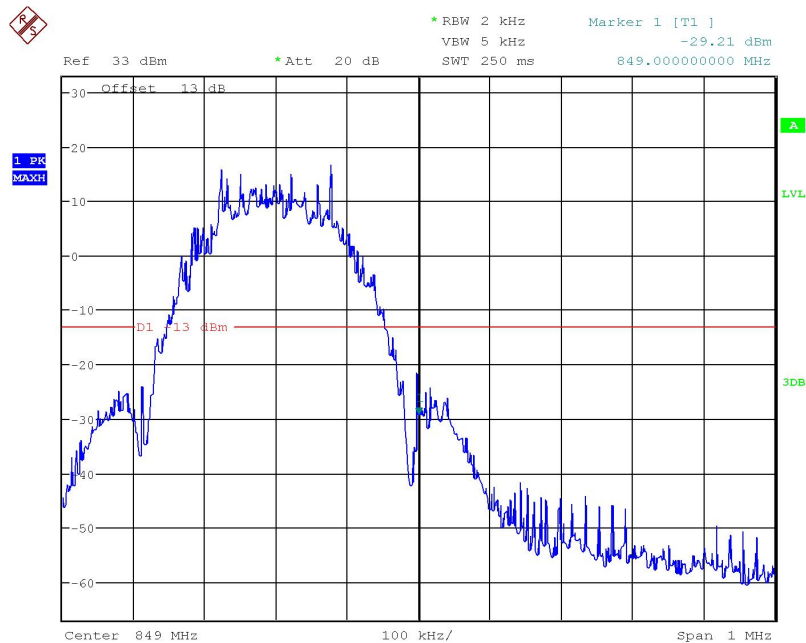
#### GMSK; Cellular high channel, above 849 MHz

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8PSK; Cellular low channel, below 824 MHz

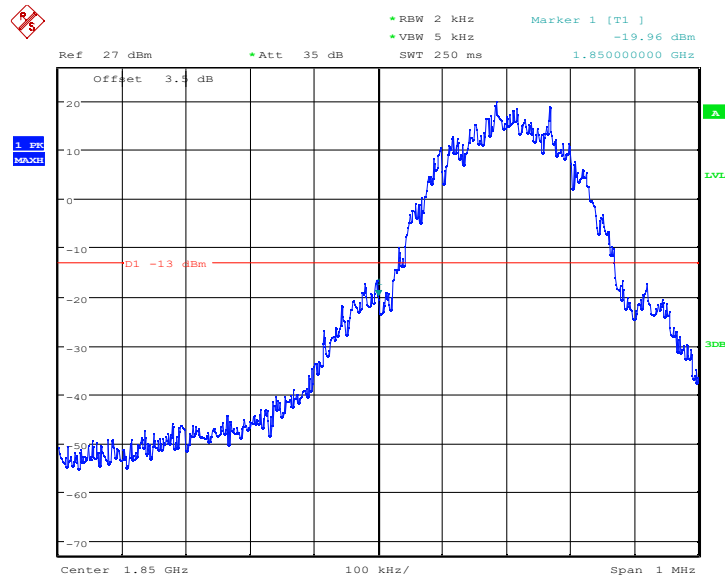


8PSK; Cellular high channel, above 849 MHz

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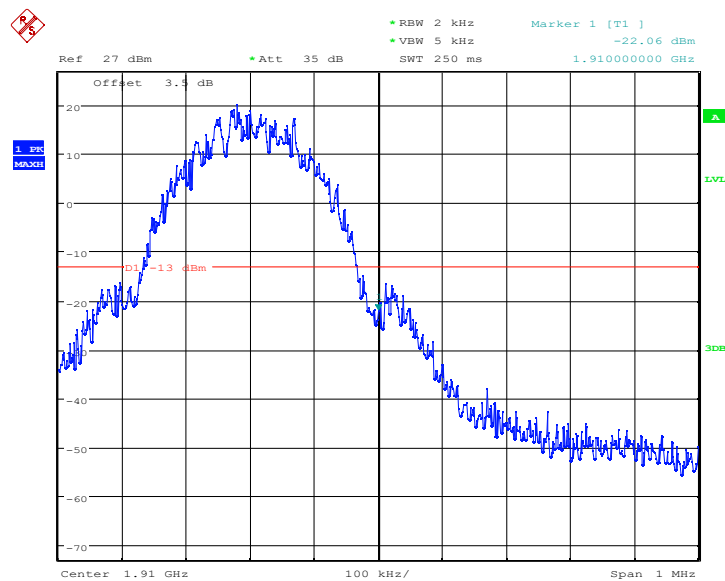
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### 6.7.2 PCS1900 Band Edge Results



Date: 9.SEP.2021 09:48:05

GMSK; PCS low channel, below 1850 MHz

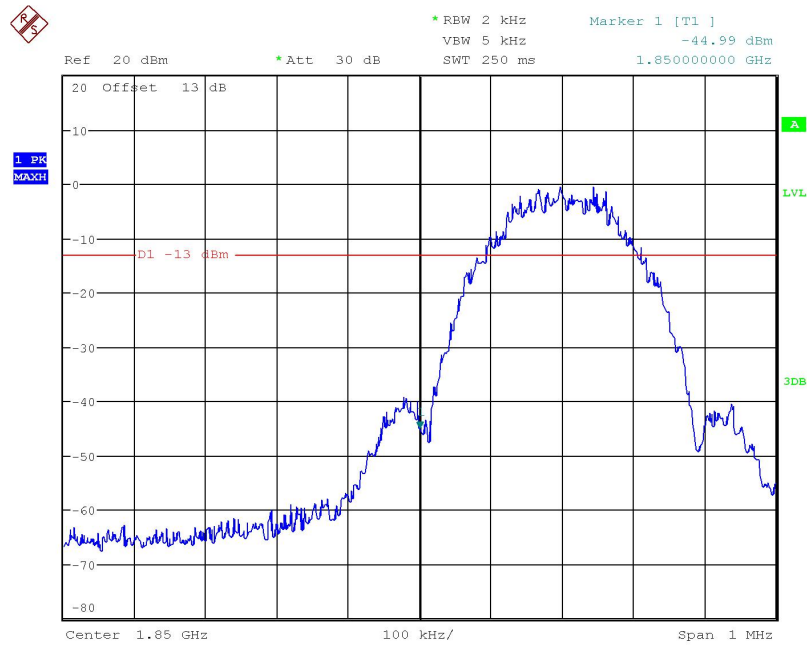


Date: 9.SEP.2021 09:48:26

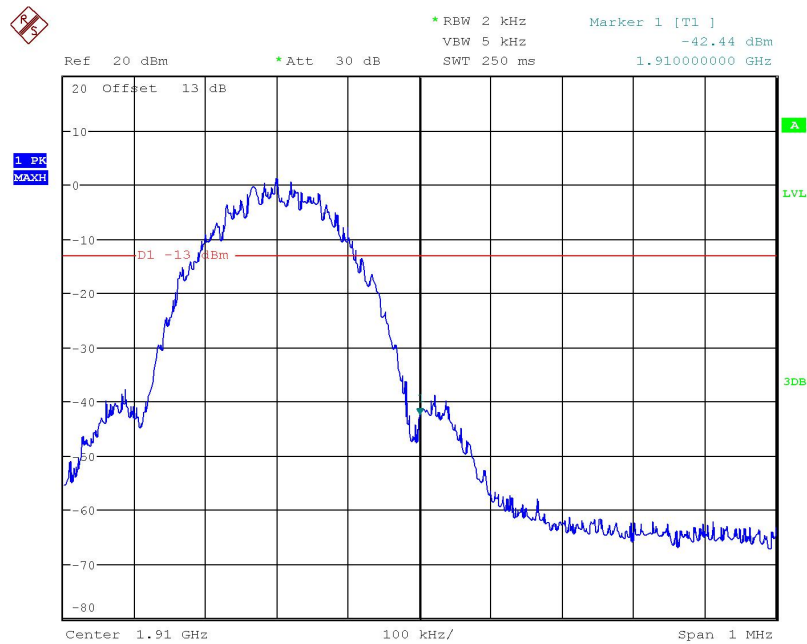
GMSK; PCS high channel, above 1910 MHz

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8PSK; PCS low channel, below 1850 MHz

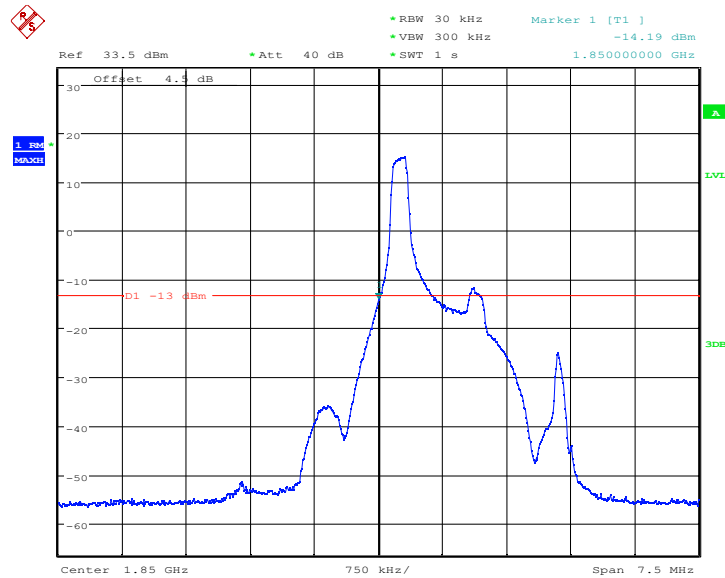


8PSK; PCS high channel, above 1910 MHz

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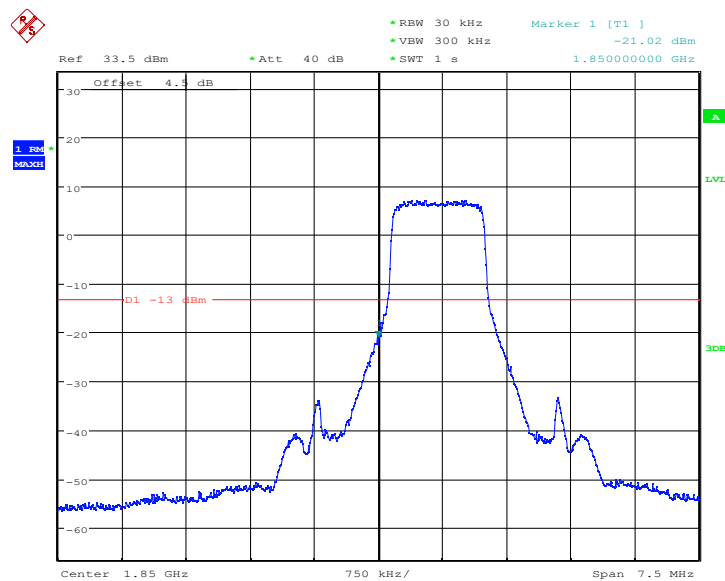
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### 6.7.3 LTE B2 Band Edge Results



Date: 31.AUG.2021 20:28:25

LTE Band2, 1.4MHz bandwidth, QPSK,(1,0) Mode , Below 1850MHz

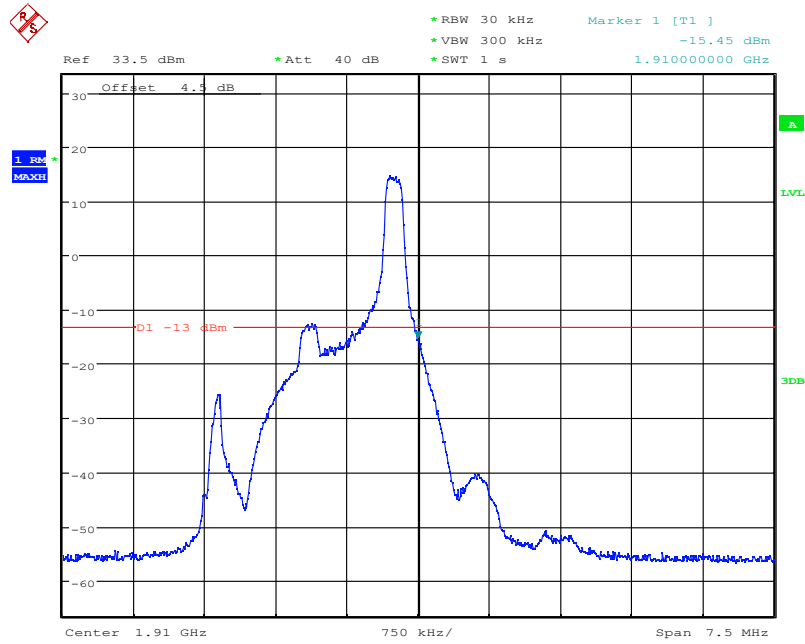


Date: 31.AUG.2021 20:28:47

LTE Band2, 1.4MHz bandwidth, QPSK,(6,0) Mode , Below 1850MHz

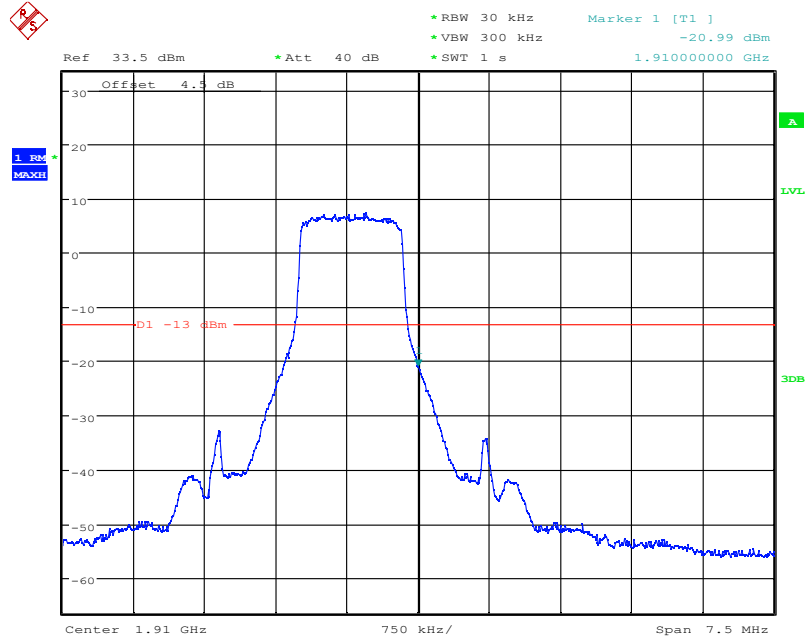
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Date: 31.AUG.2021 20:31:52

LTE Band2, 1.4MHz bandwidth, QPSK,(1,6) Mode, Above 1910MHz



Date: 31.AUG.2021 20:31:32

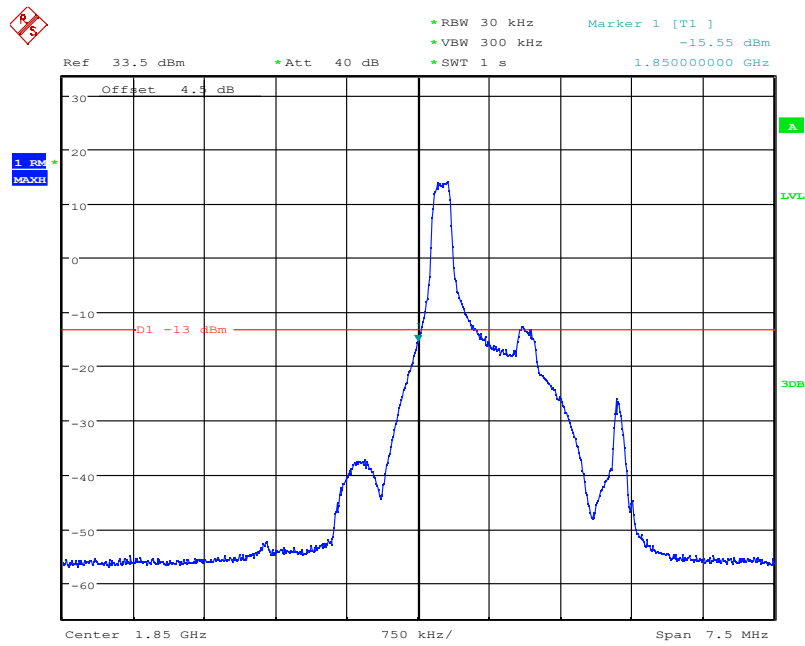
LTE Band2, 1.4MHz bandwidth, QPSK,(6,0) Mode, Above 1910MHz

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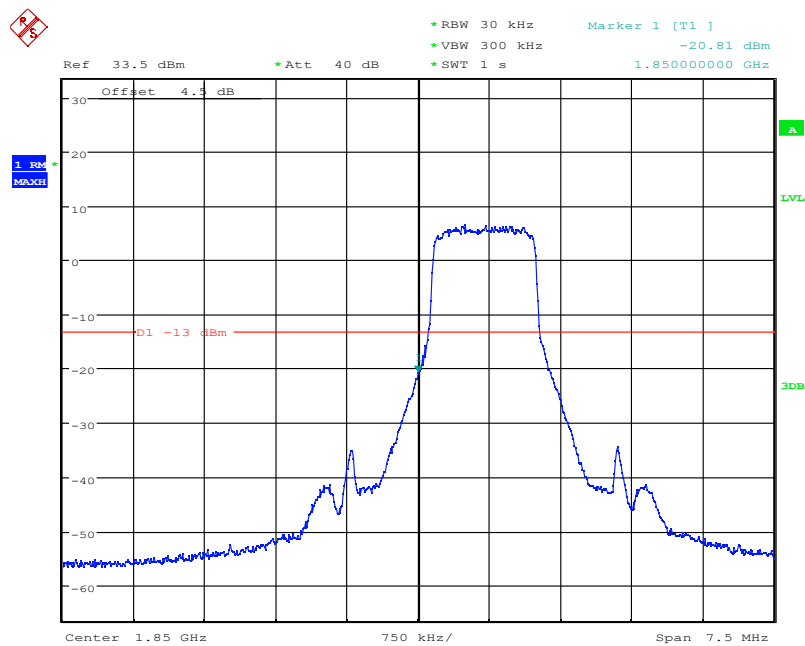


Report No.: I21W00032-WWAN\_Rev2



Date: 31.AUG.2021 20:29:37

LTE Band2, 1.4MHz bandwidth, 16QAM,(1,0) Mode , Below 1850MHz

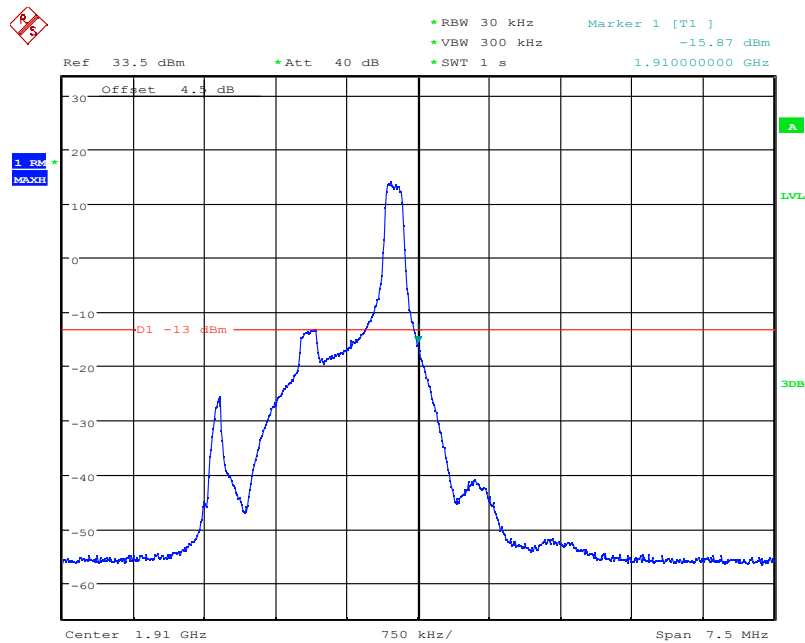


Date: 31.AUG.2021 20:29:12

LTE Band2, 1.4MHz bandwidth, 16QAM,(6,0) Mode , Below 1850MHz

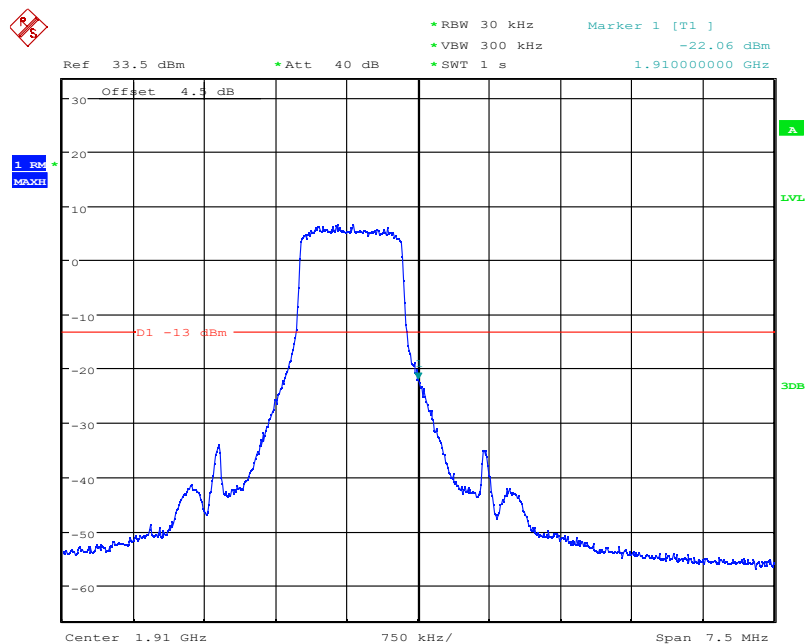
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Date: 31.AUG.2021 20:30:50

LTE Band2, 1.4MHz bandwidth, 16QAM,(1,6) Mode, Above 1910MHz



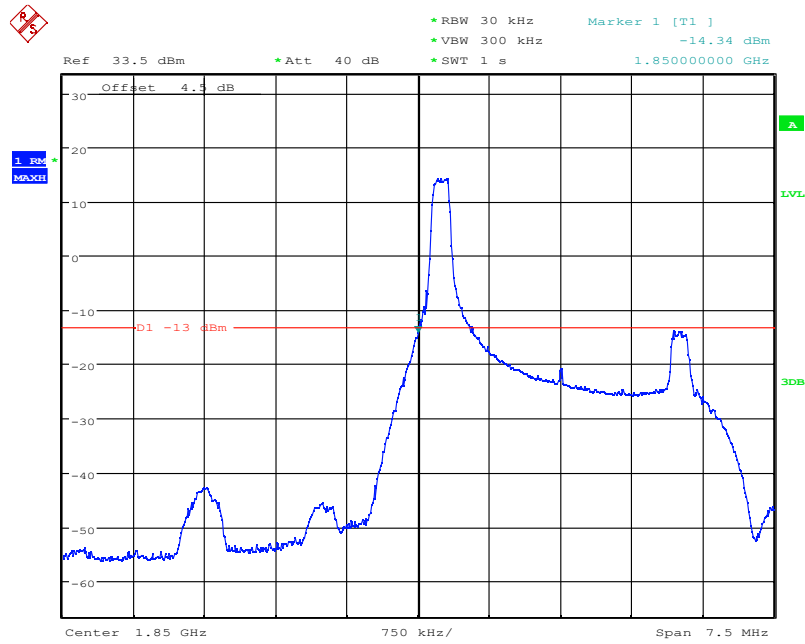
Date: 31.AUG.2021 20:31:08

LTE Band2, 1.4MHz bandwidth, 16QAM,(6,0) Mode, Above 1910MHz

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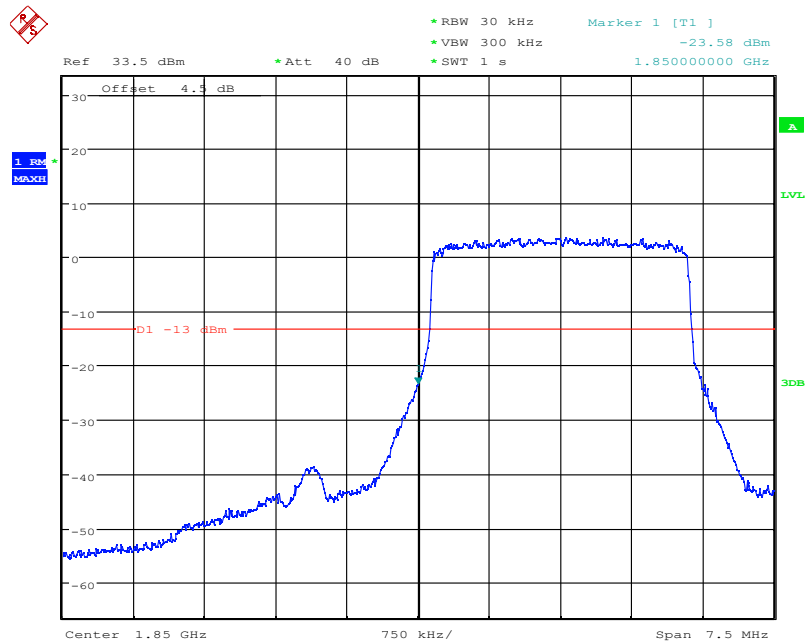
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Date: 31.AUG.2021 20:35:51

LTE Band2, 3MHz bandwidth, QPSK,(1,0) Mode , Below 1850MHz



Date: 31.AUG.2021 20:36:11

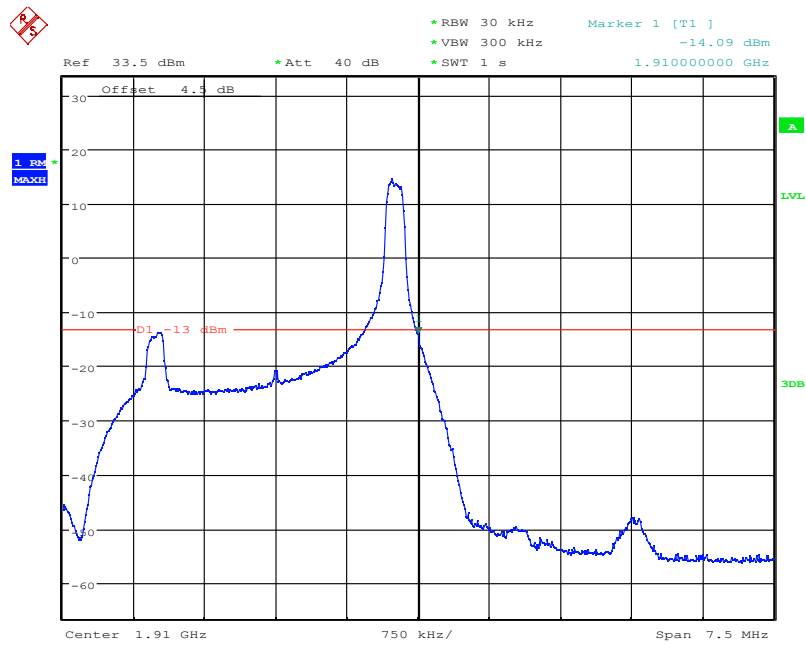
LTE Band2, 3MHz bandwidth, QPSK,(15,0) Mode , Below 1850MHz

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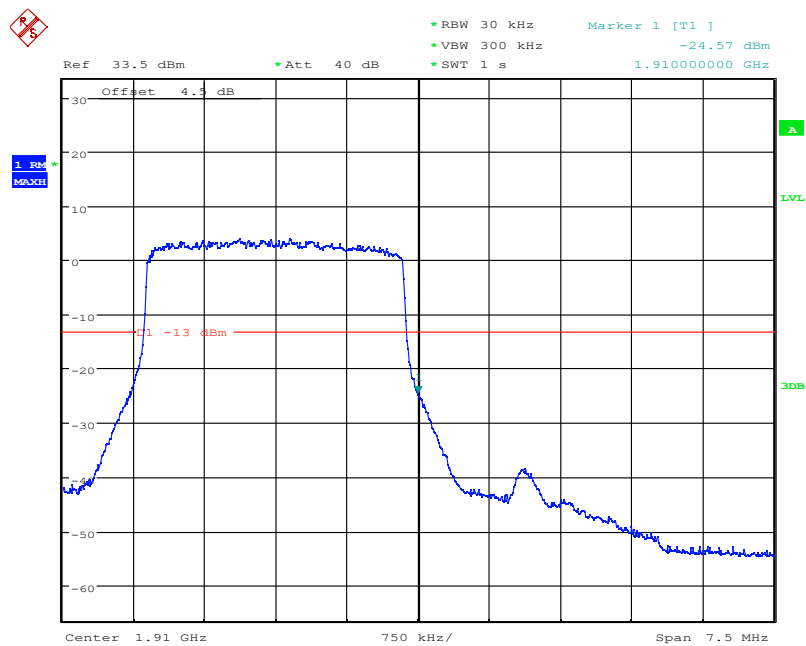


Report No.: I21W00032-WWAN\_Rev2



Date: 31.AUG.2021 20:33:29

LTE Band2, 3MHz bandwidth, QPSK,(1,15) Mode, Above 1910MHz

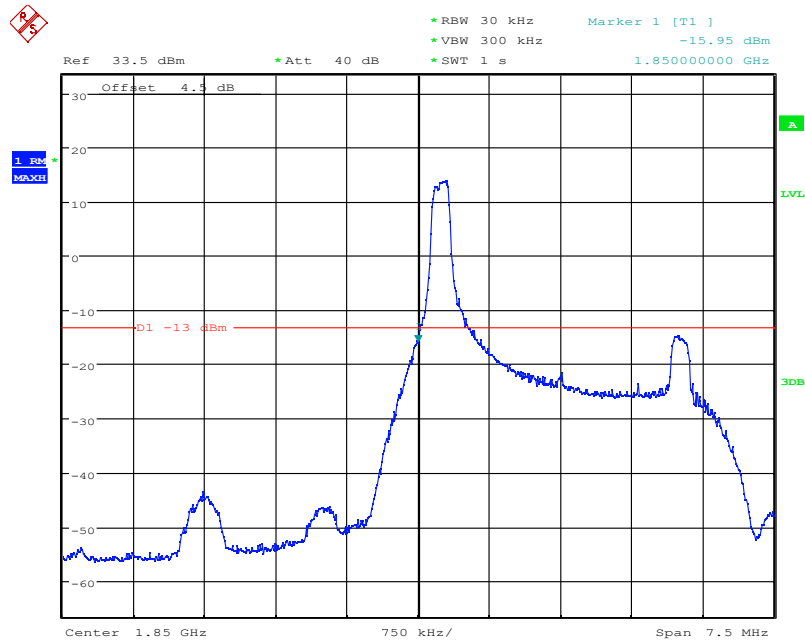


Date: 31.AUG.2021 20:33:03

LTE Band2, 3MHz bandwidth, QPSK,(15,0) Mode, Above 1910MHz

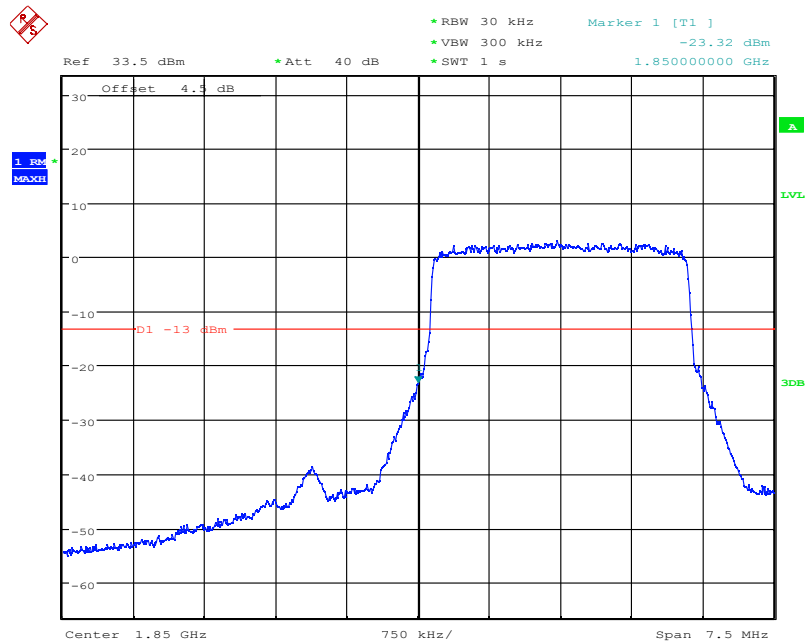
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Date: 31.AUG.2021 20:35:30

LTE Band2, 3MHz bandwidth, 16QAM,(1,0) Mode , Below 1850MHz

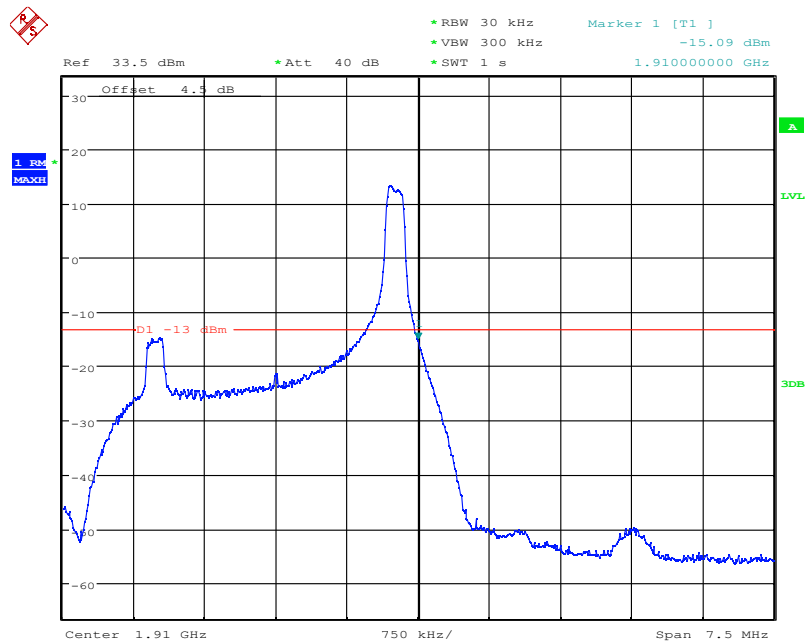


Date: 31.AUG.2021 20:35:02

LTE Band2, 3MHz bandwidth, 16QAM,(15,0) Mode , Below 1850MHz

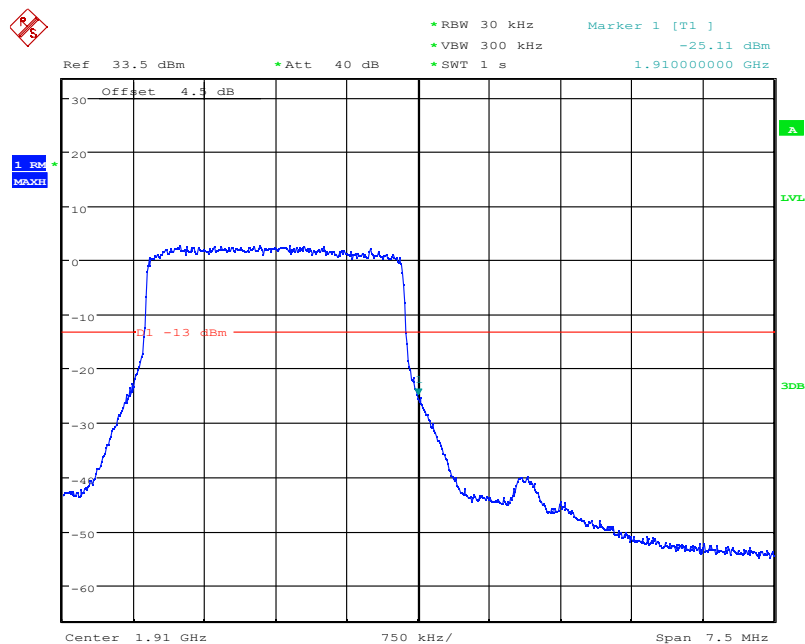
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Date: 31.AUG.2021 20:34:08

LTE Band2, 3MHz bandwidth, 16QAM,(1,15) Mode, Above 1910MHz

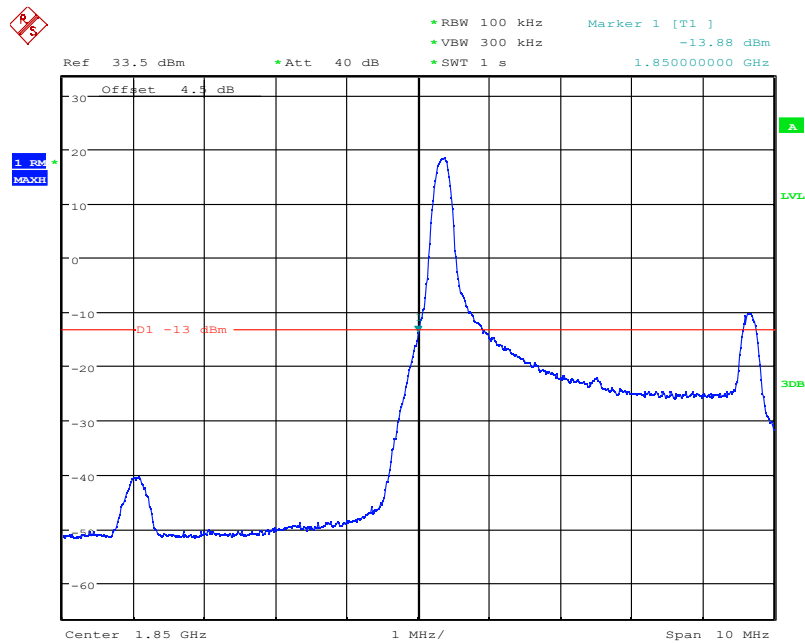


Date: 31.AUG.2021 20:34:26

LTE Band2, 3MHz bandwidth, 16QAM,(15,0) Mode, Above 1910MHz

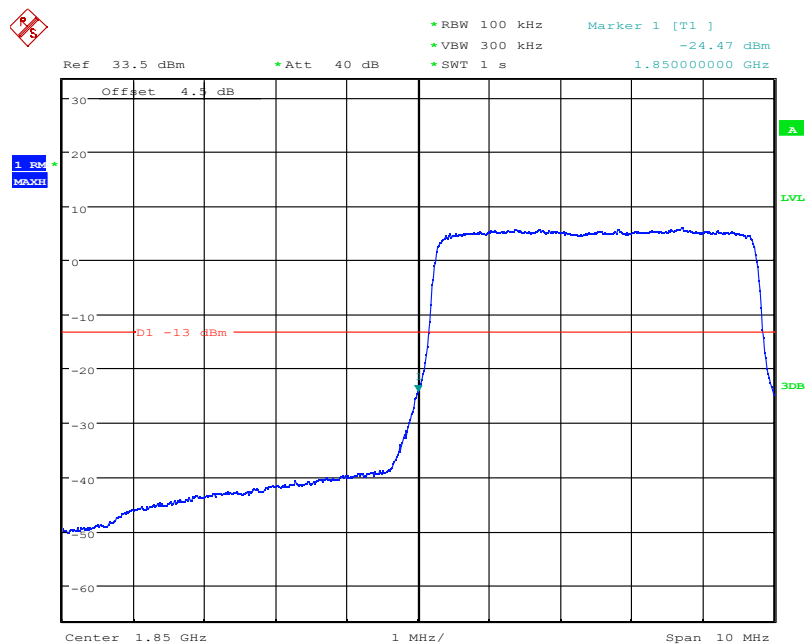
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Date: 31.AUG.2021 20:54:22

LTE Band2, 5MHz bandwidth, QPSK,(1,0) Mode , Below 1850MHz

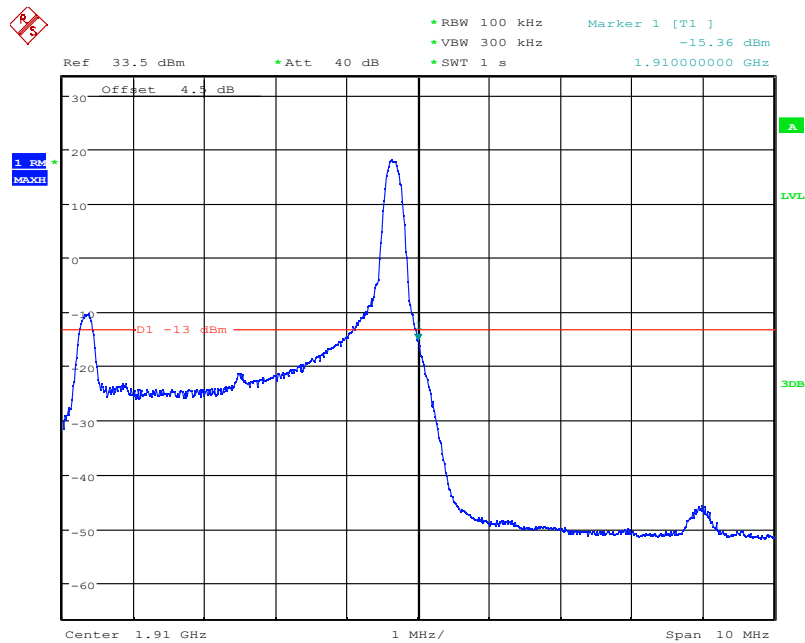


Date: 31.AUG.2021 20:53:58

LTE Band2, 5MHz bandwidth, QPSK,(25,0) Mode , Below 1850MHz

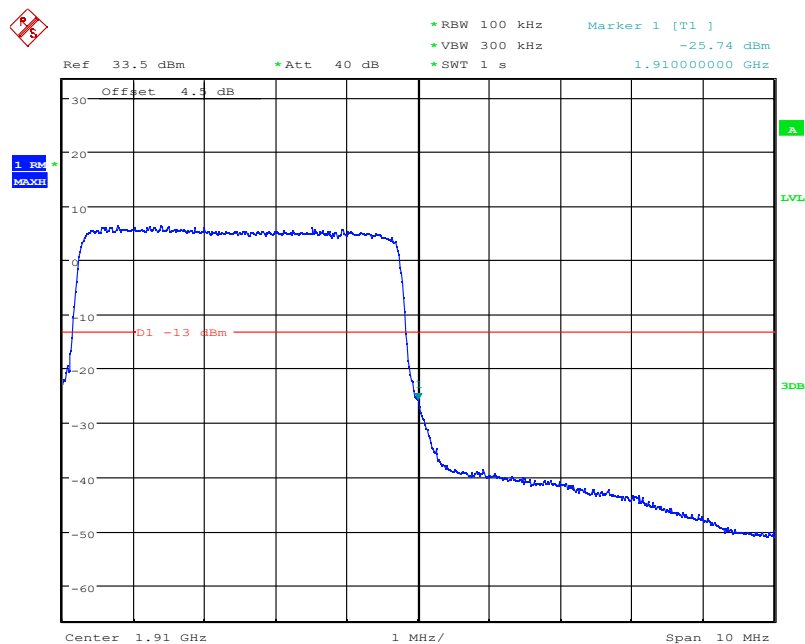
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Date: 31.AUG.2021 20:56:11

LTE Band2, 5MHz bandwidth, QPSK,(1,25) Mode, Above 1910MHz

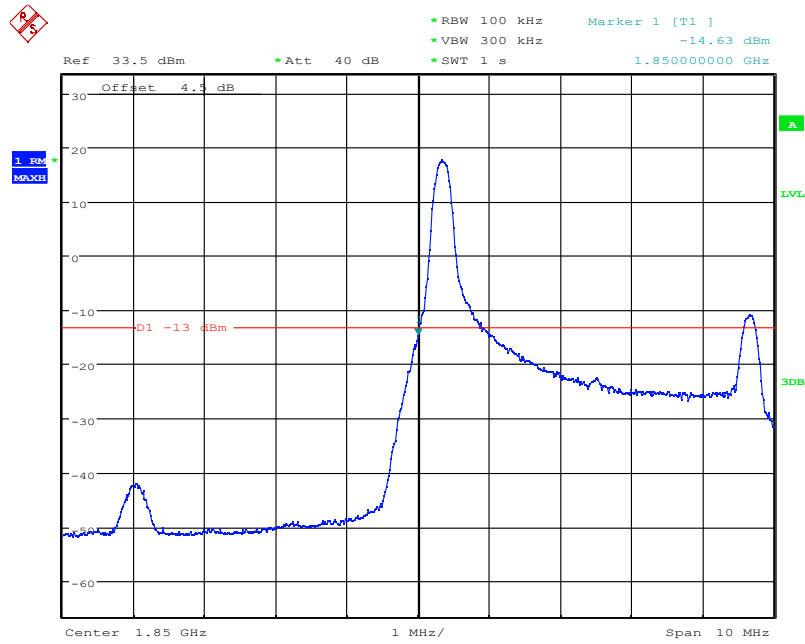


Date: 31.AUG.2021 20:56:29

LTE Band2, 5MHz bandwidth, QPSK,(25,0) Mode, Above 1910MHz

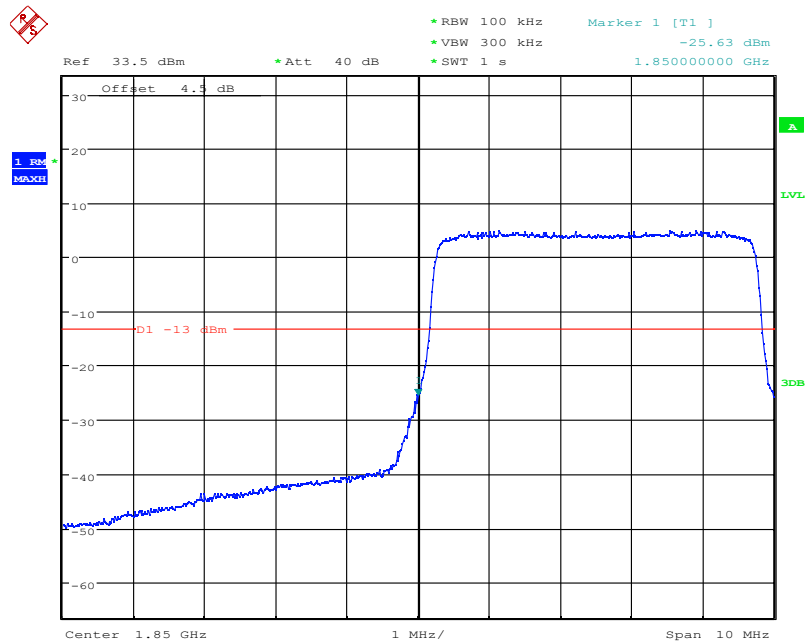
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Date: 31.AUG.2021 20:54:44

LTE Band2, 5MHz bandwidth, 16QAM,(1,0) Mode , Below 1850MHz

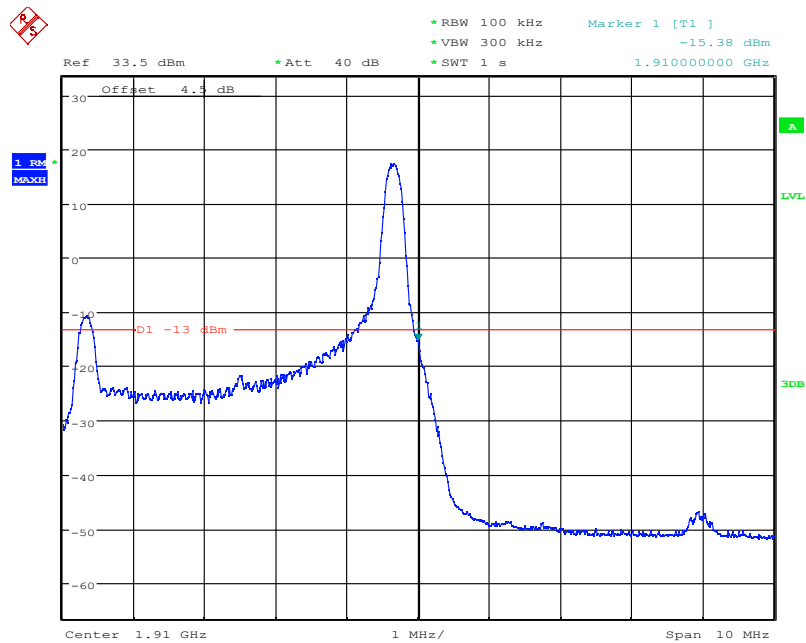


Date: 31.AUG.2021 20:55:01

LTE Band2, 5MHz bandwidth, 16QAM,(25,0) Mode , Below 1850MHz

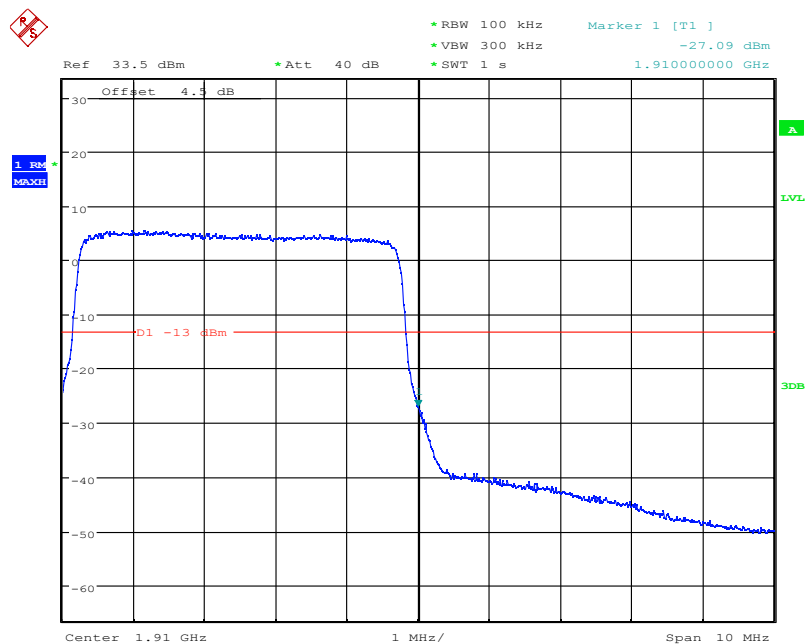
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Date: 31.AUG.2021 20:55:54

LTE Band2, 5MHz bandwidth, 16QAM,(1,25) Mode, Above 1910MHz



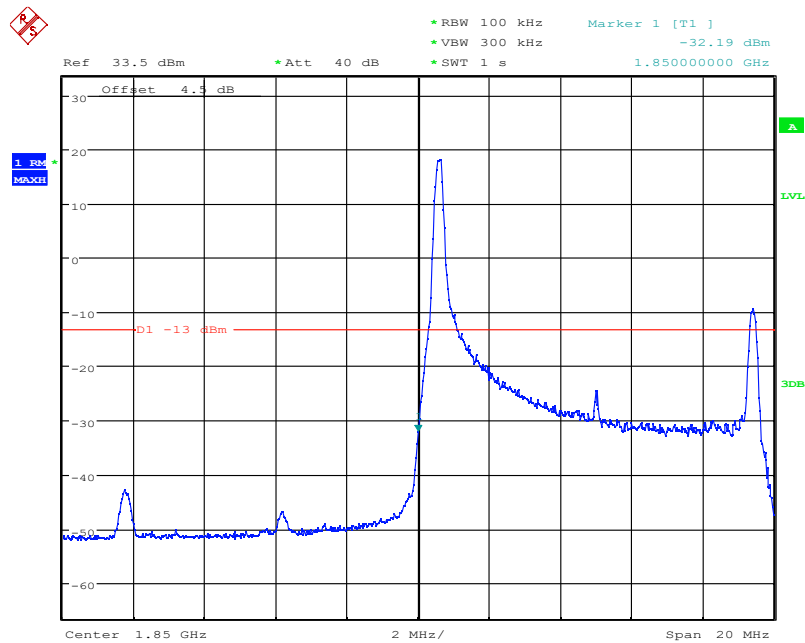
Date: 31.AUG.2021 20:55:32

LTE Band2, 5MHz bandwidth, 16QAM,(25,0) Mode, Above 1910MHz

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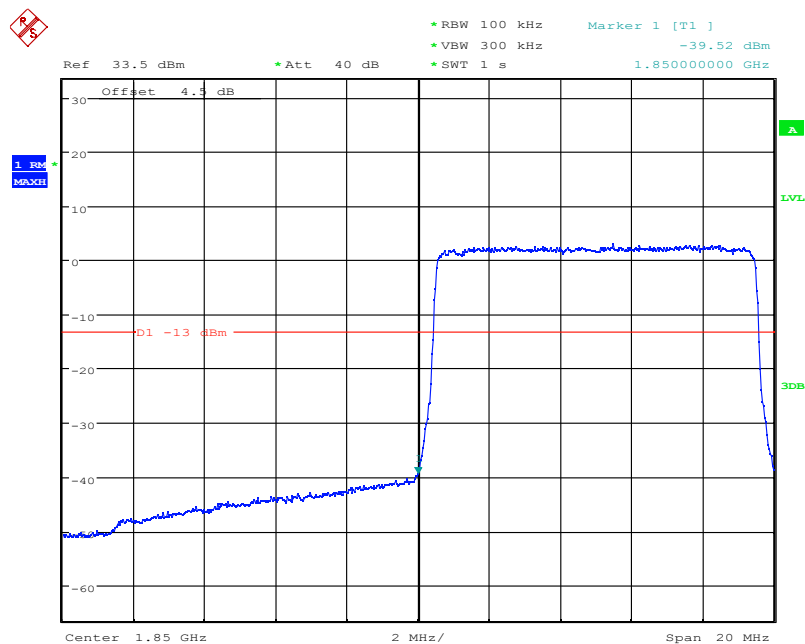
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Date: 31.AUG.2021 20:59:14

LTE Band2, 10MHz bandwidth, QPSK,(1,0) Mode , Below 1850MHz

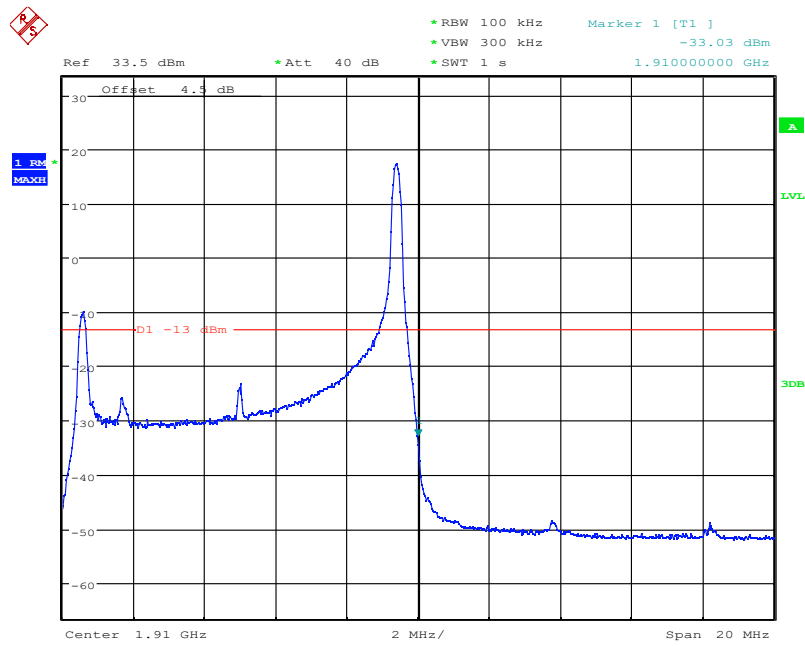


Date: 31.AUG.2021 20:59:27

LTE Band2, 10MHz bandwidth, QPSK,(50,0) Mode , Below 1850MHz

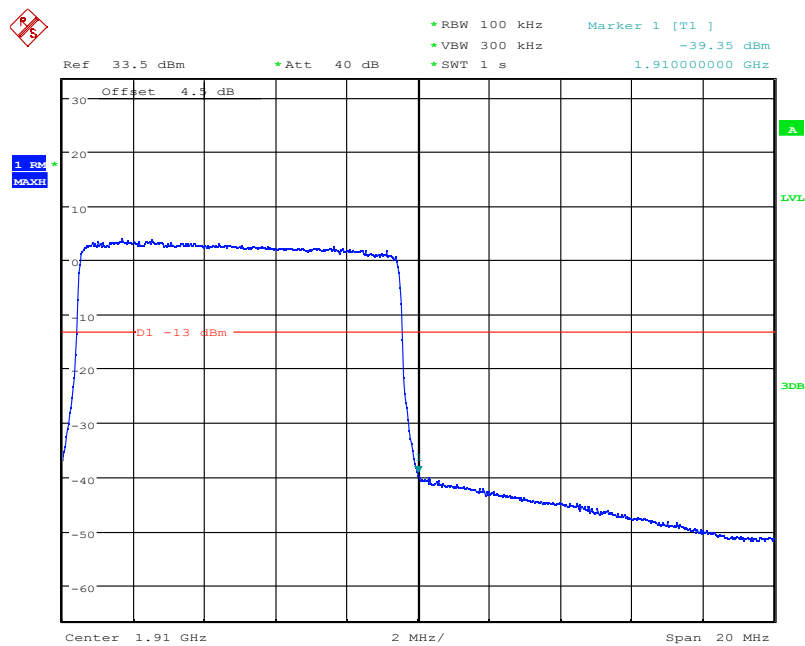
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Date: 31.AUG.2021 20:57:47

LTE Band2, 10MHz bandwidth, QPSK,(1,50) Mode, Above 1910MHz

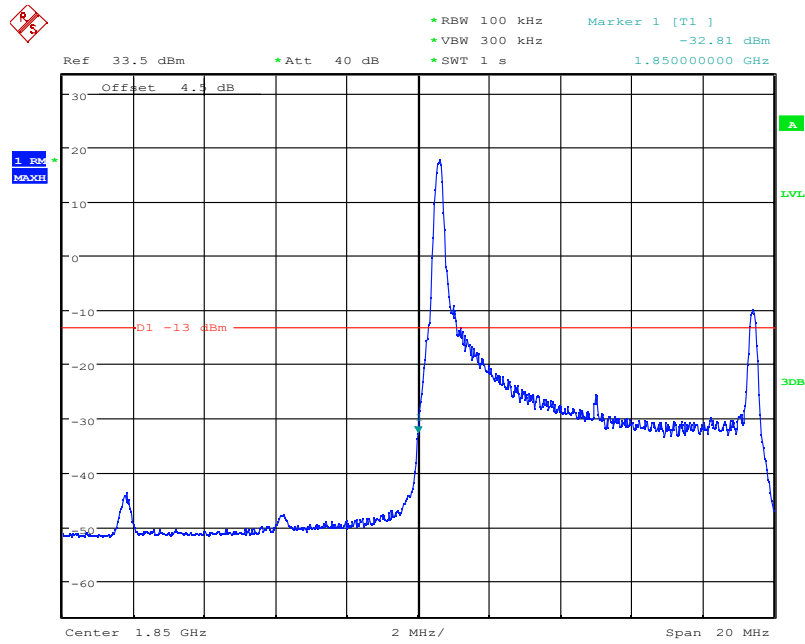


Date: 31.AUG.2021 20:57:25

LTE Band2, 10MHz bandwidth, QPSK,(50,0) Mode, Above 1910MHz

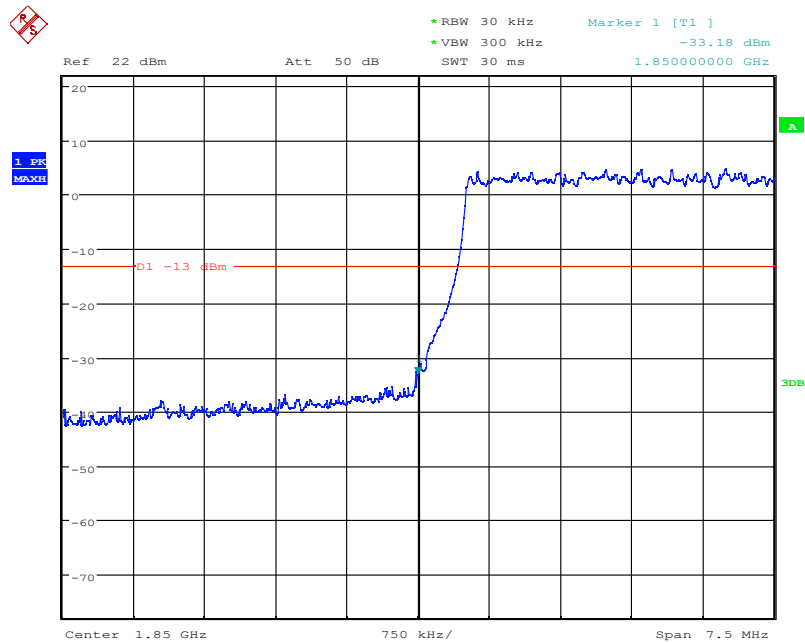
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Date: 31.AUG.2021 20:59:00

LTE Band2, 10MHz bandwidth, 16QAM,(1,0) Mode , Below 1850MHz

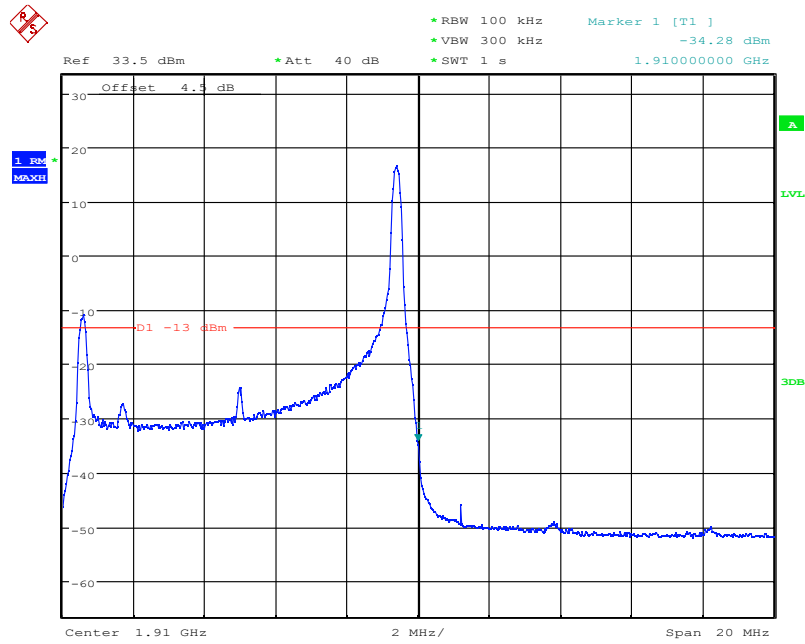


Date: 8.SEP.2021 20:36:32

LTE Band2, 10MHz bandwidth, 16QAM,(27,0) Mode , Below 1850MHz

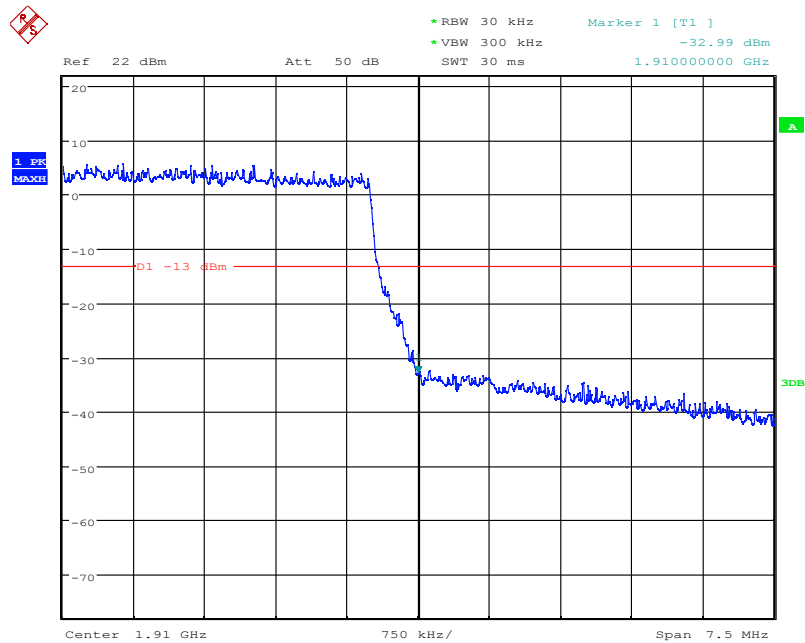
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Date: 31.AUG.2021 20:58:02

LTE Band2, 10MHz bandwidth, 16QAM,(1,50) Mode, Above 1910MHz

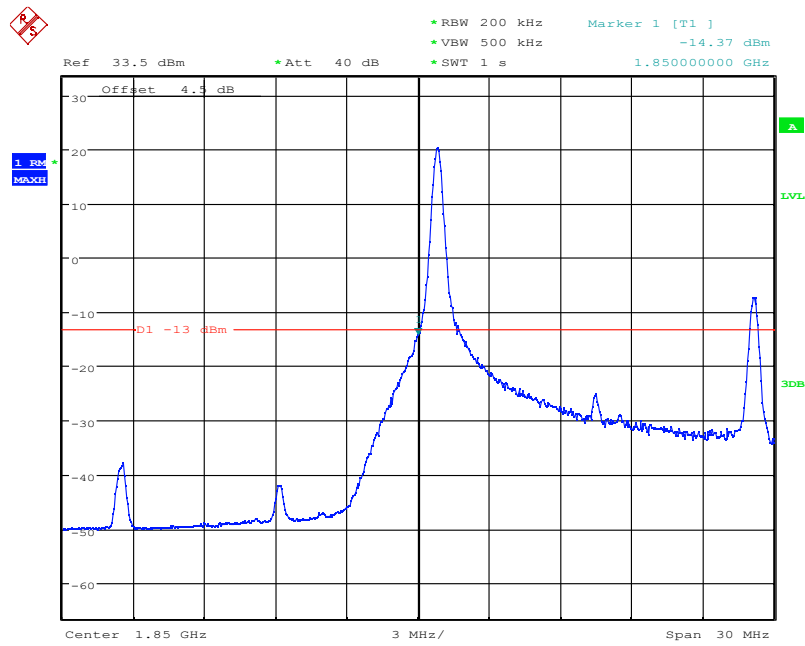


Date: 8.SEP.2021 20:37:53

LTE Band2, 10MHz bandwidth, 16QAM,(27,0) Mode, Above 1910MHz

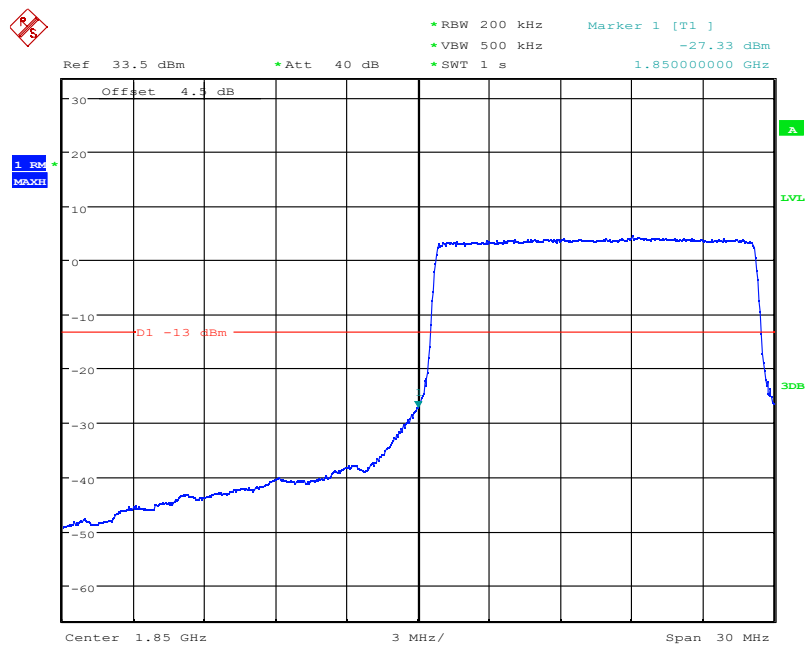
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Date: 31.AUG.2021 21:01:03

LTE Band2, 15MHz bandwidth, QPSK,(1,0) Mode , Below 1850MHz



Date: 31.AUG.2021 21:00:26

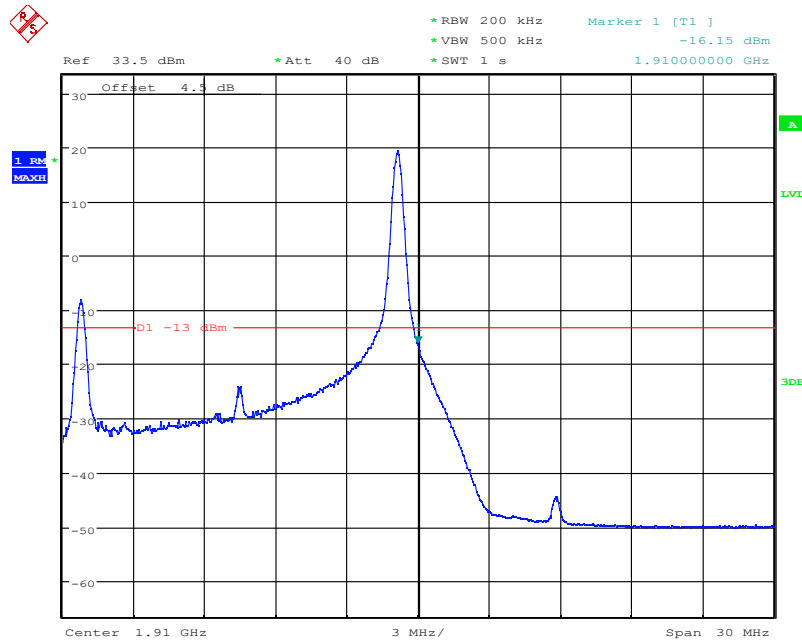
LTE Band2, 15MHz bandwidth, QPSK,(75,0) Mode , Below 1850MHz

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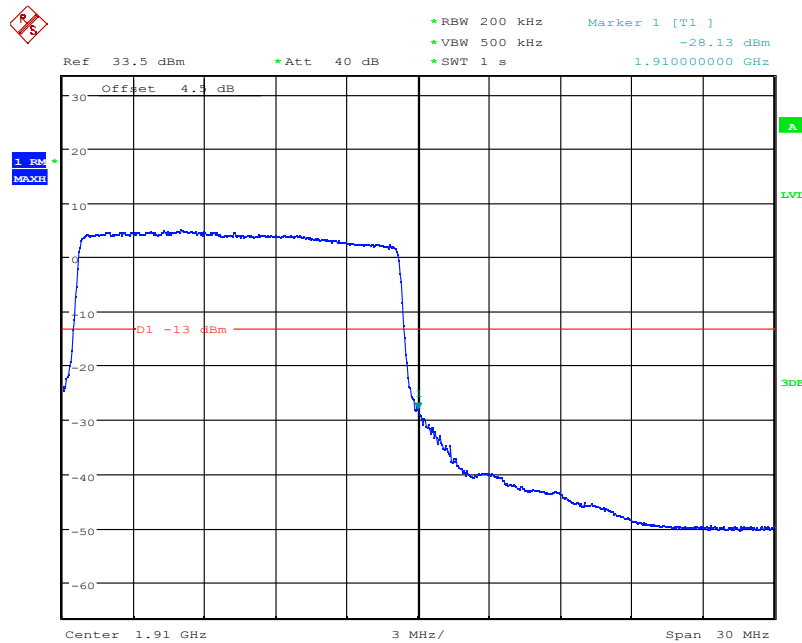


Report No.: I21W00032-WWAN\_Rev2



Date: 31.AUG.2021 21:02:23

LTE Band2, 15MHz bandwidth, QPSK,(1,75) Mode, Above 1910MHz

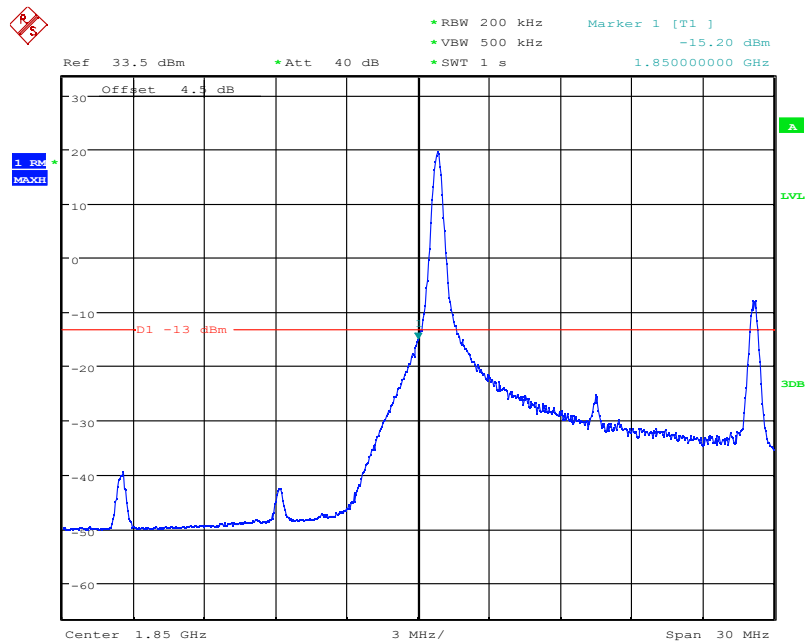


Date: 31.AUG.2021 21:02:37

LTE Band2, 15MHz bandwidth, QPSK,(75,0) Mode, Above 1910MHz

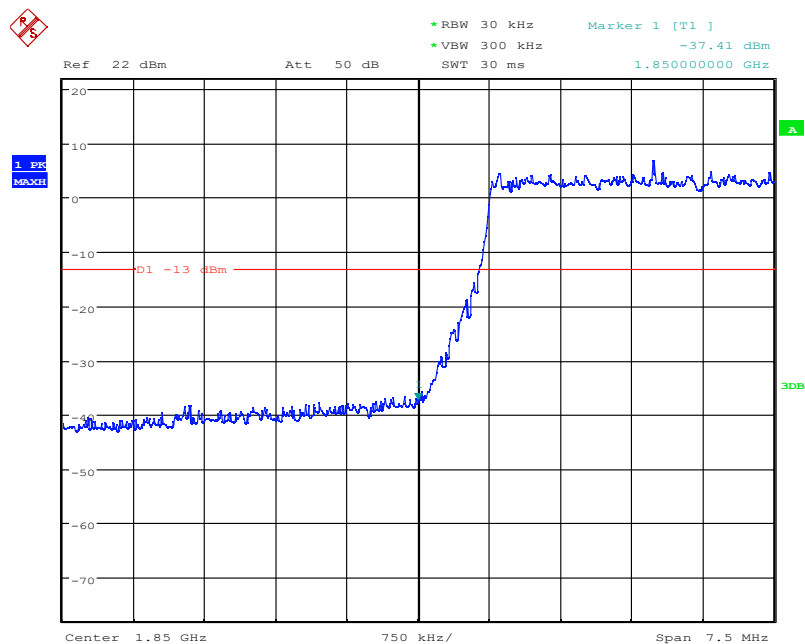
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Date: 31.AUG.2021 21:01:21

LTE Band2, 15MHz bandwidth, 16QAM,(1,0) Mode , Below 1850MHz

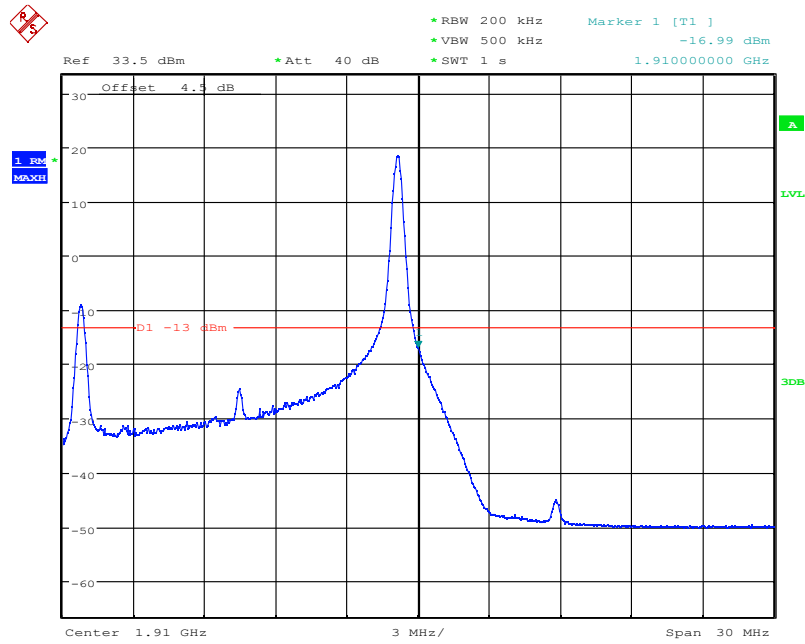


Date: 8.SEP.2021 20:38:51

LTE Band2, 15MHz bandwidth, 16QAM,(27,0) Mode , Below 1850MHz

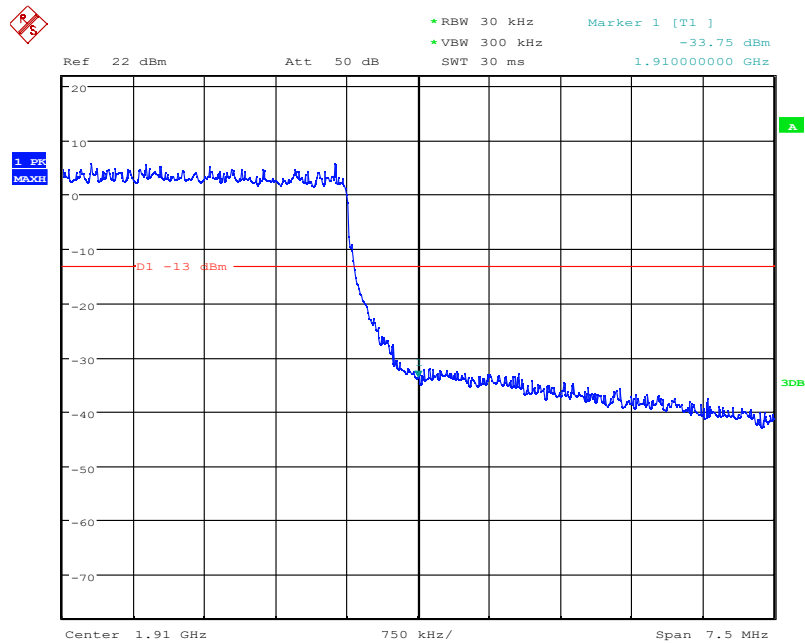
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Date: 31.AUG.2021 21:02:05

LTE Band2, 15MHz bandwidth, 16QAM,(1,75) Mode, Above 1910MHz



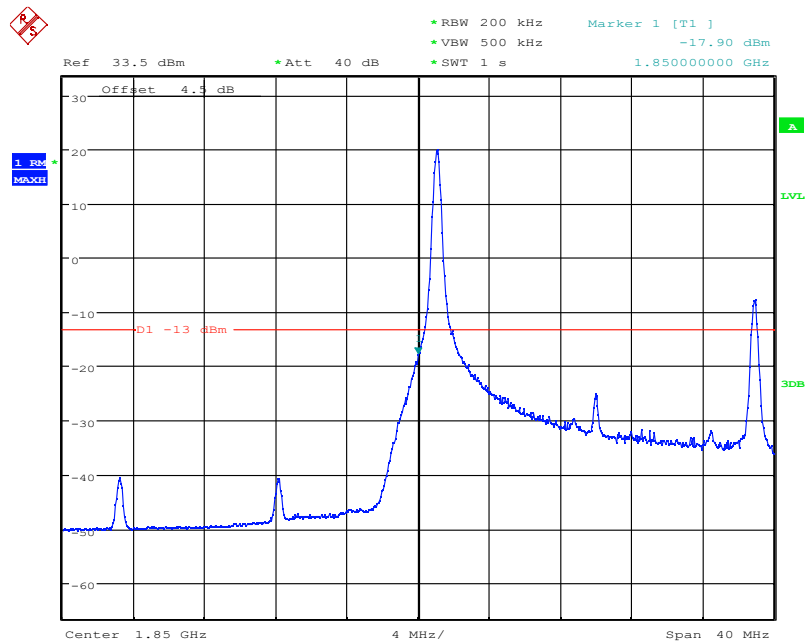
Date: 8.SEP.2021 20:39:22

LTE Band2, 15MHz bandwidth, 16QAM,(27,0) Mode, Above 1910MHz

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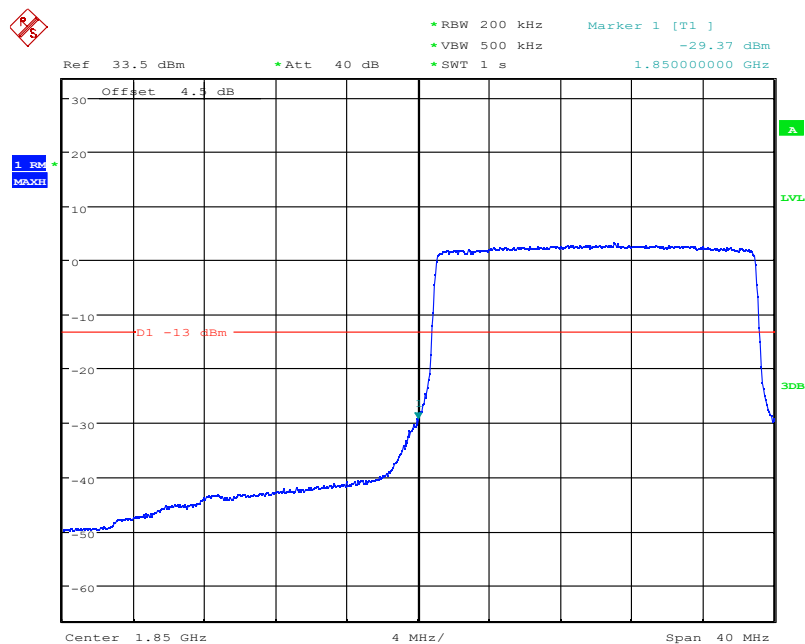
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Date: 31.AUG.2021 21:04:56

LTE Band2, 20MHz bandwidth, QPSK,(1,0) Mode , Below 1850MHz

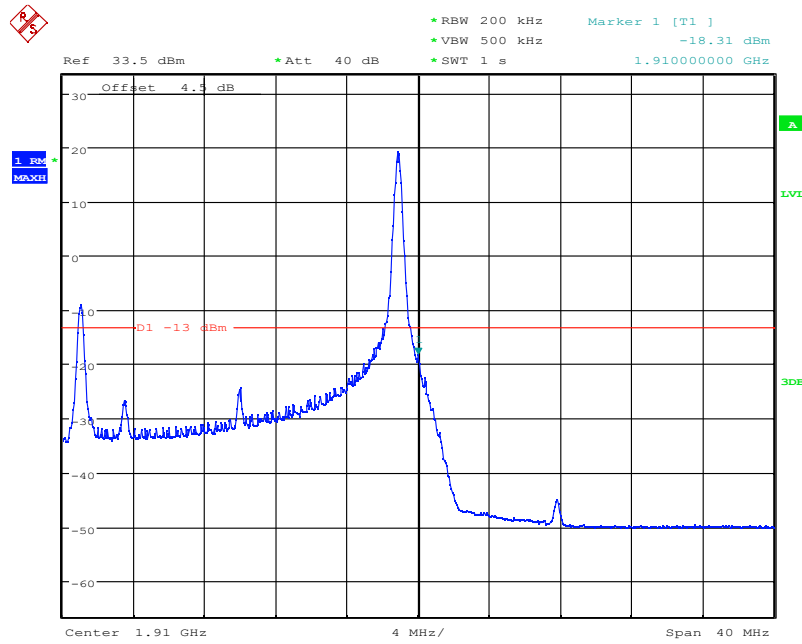


Date: 31.AUG.2021 21:05:13

LTE Band2, 20MHz bandwidth, QPSK,(100,0) Mode , Below 1850MHz

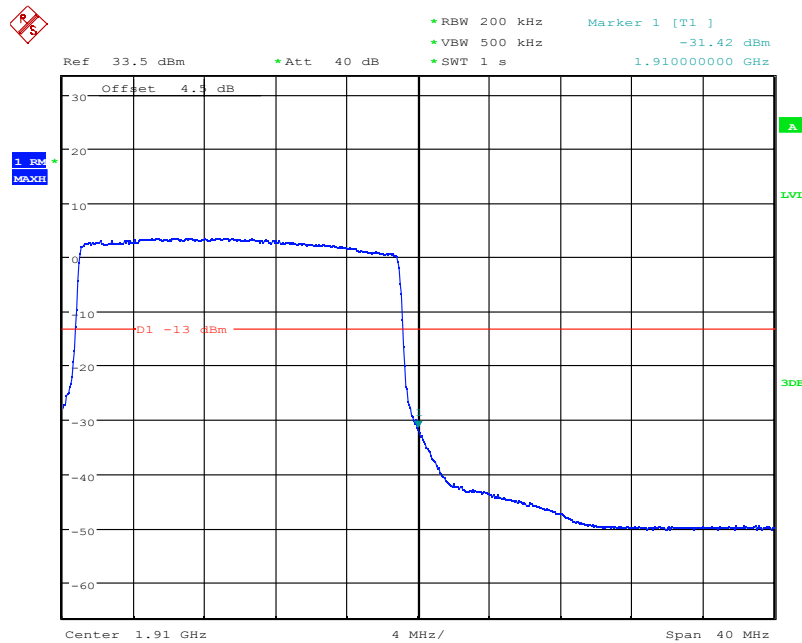
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Date: 31.AUG.2021 21:03:36

LTE Band2, 20MHz bandwidth, QPSK,(1,100) Mode, Above 1910MHz

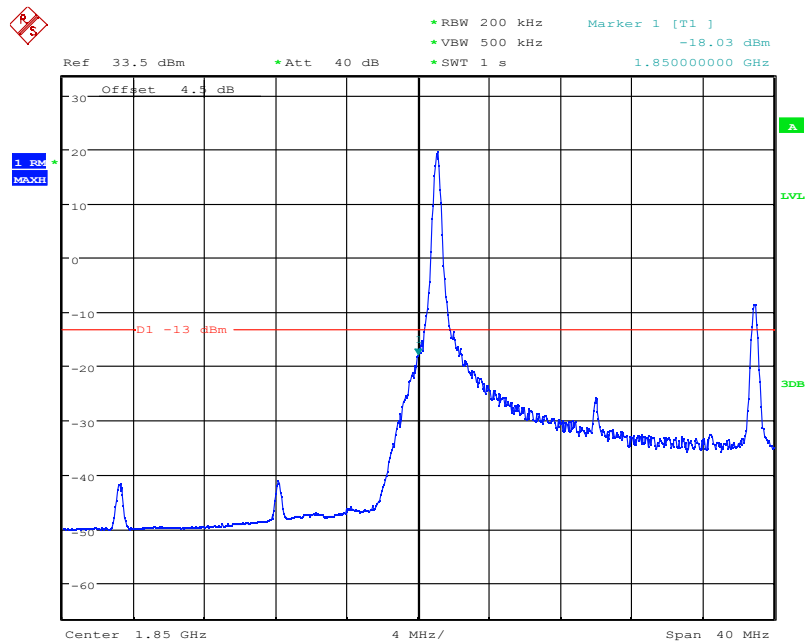


Date: 31.AUG.2021 21:03:16

LTE Band2, 20MHz bandwidth, QPSK,(100,0) Mode, Above 1910MHz

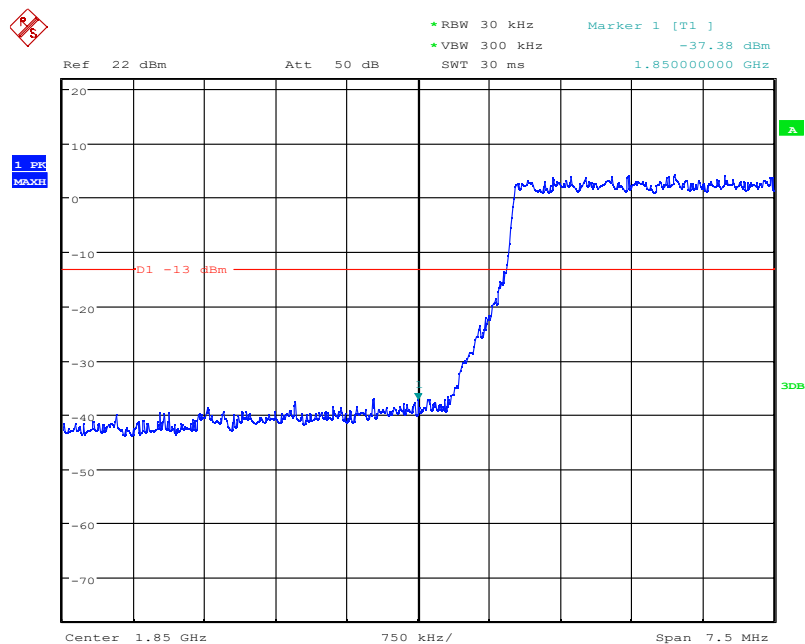
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Date: 31.AUG.2021 21:04:40

LTE Band2, 20MHz bandwidth, 16QAM,(1,0) Mode , Below 1850MHz

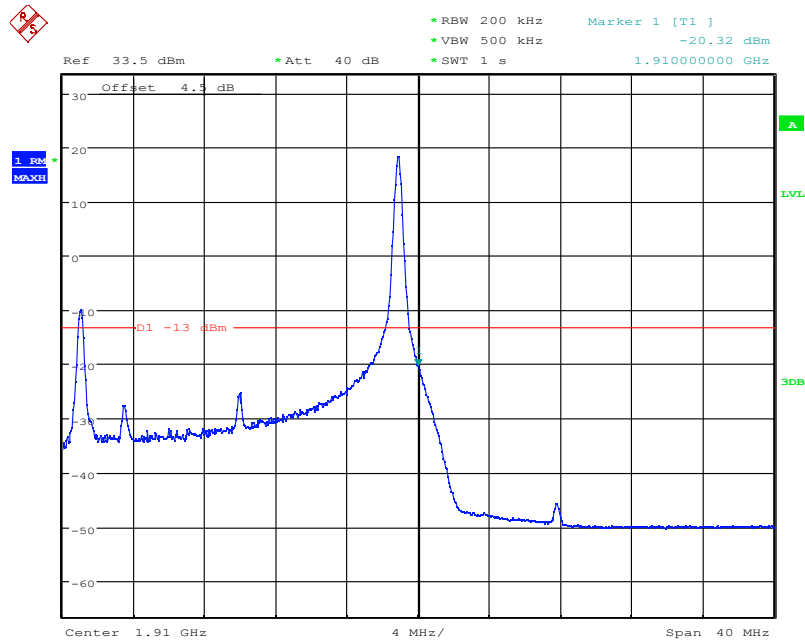


Date: 8.SEP.2021 20:40:26

LTE Band2, 20MHz bandwidth, 16QAM,(27,0) Mode , Below 1850MHz

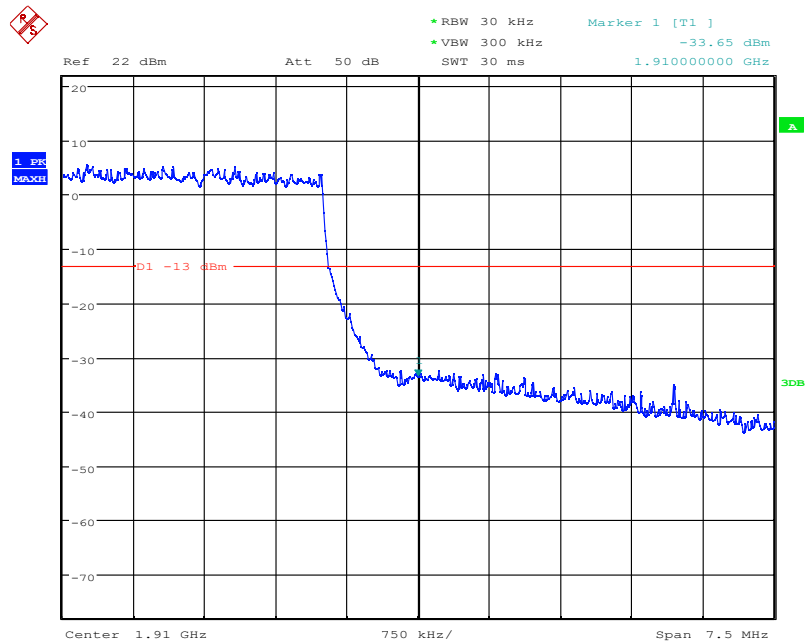
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Date: 31.AUG.2021 21:03:51

LTE Band2, 20MHz bandwidth, 16QAM,(1,100) Mode, Above 1910MHz



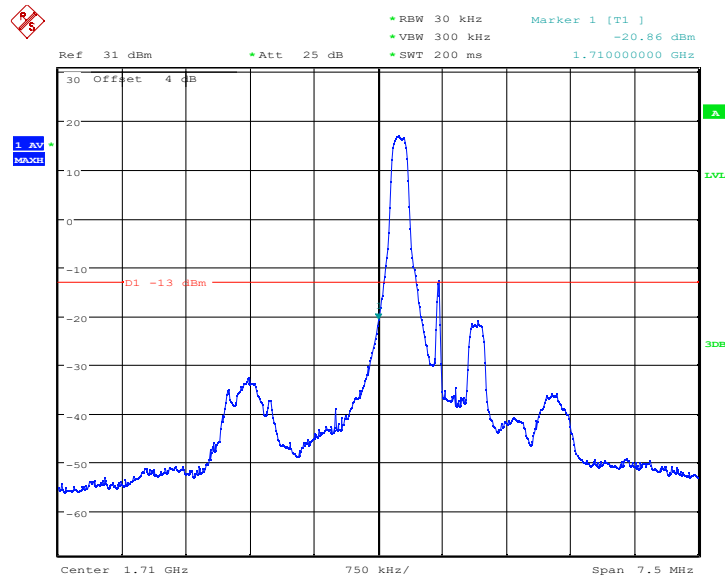
Date: 8.SEP.2021 20:40:04

LTE Band2, 20MHz bandwidth, 16QAM,(27,0) Mode, Above 1910MHz

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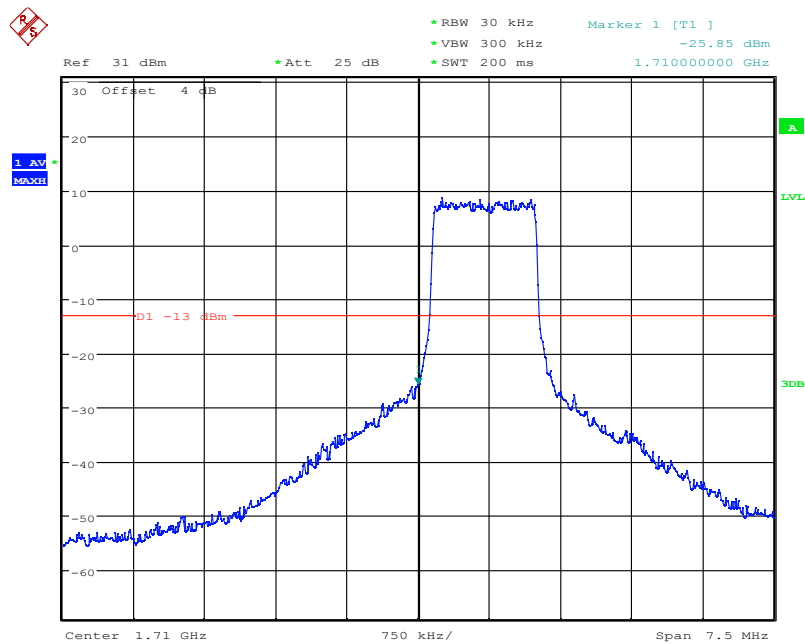
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### 6.7.4 LTE B4 Band Edge Results



Date: 2.SEP.2021 11:13:34

LTE Band4, 1.4MHz bandwidth, QPSK,(1,0) Mode , Below 1710MHz



Date: 2.SEP.2021 11:13:48

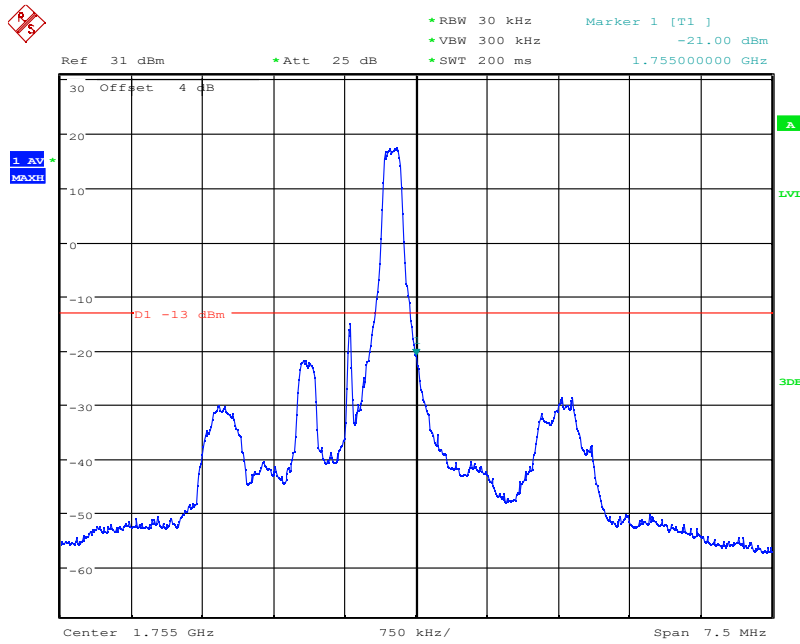
LTE Band4, 1.4MHz bandwidth, QPSK,(6,0) Mode , Below 1710MHz

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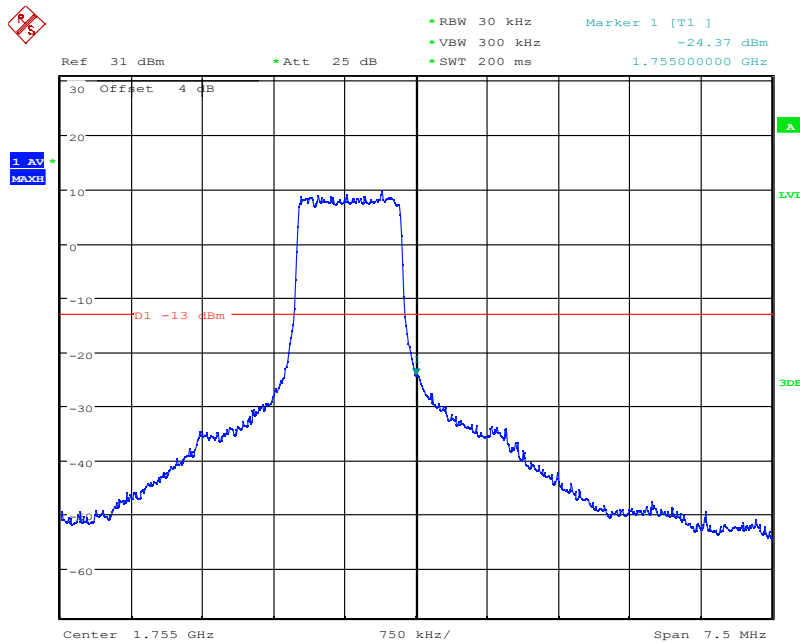


Report No.: I21W00032-WWAN\_Rev2



Date: 2.SEP.2021 11:16:02

LTE Band4, 1.4MHz bandwidth, QPSK,(1,6) Mode, Above 1755MHz



Date: 2.SEP.2021 11:15:30

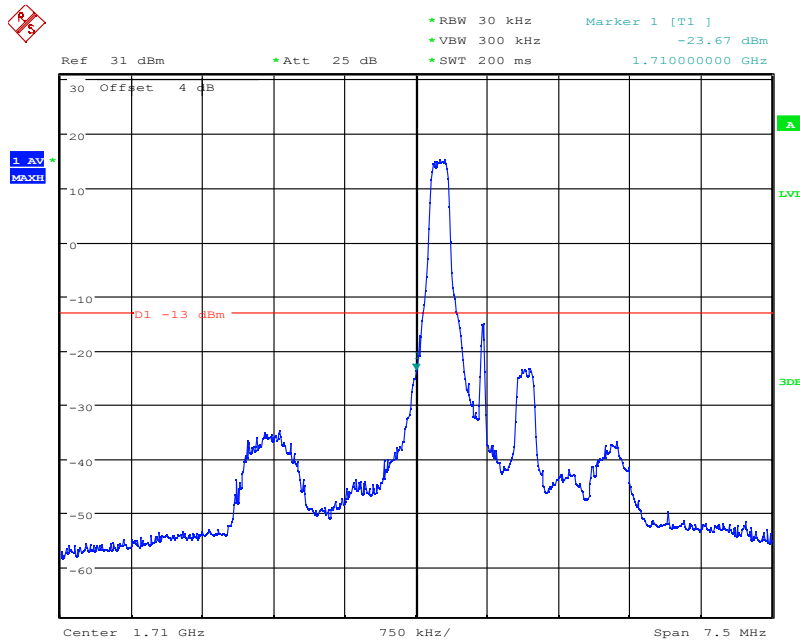
LTE Band4, 1.4MHz bandwidth, QPSK,(6,0) Mode, Above 1755MHz

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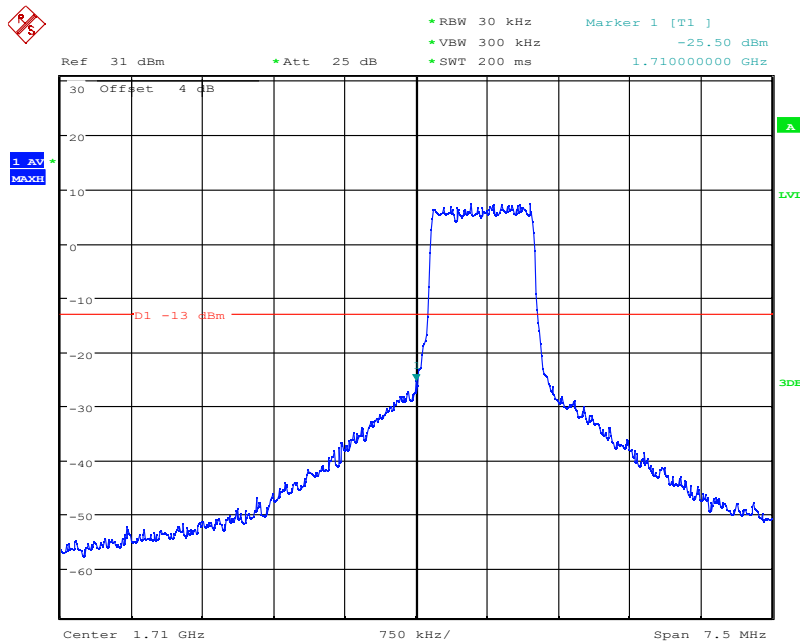


Report No.: I21W00032-WWAN\_Rev2



Date: 2.SEP.2021 11:14:14

LTE Band4, 1.4MHz bandwidth, 16QAM,(1,0) Mode , Below 1710MHz

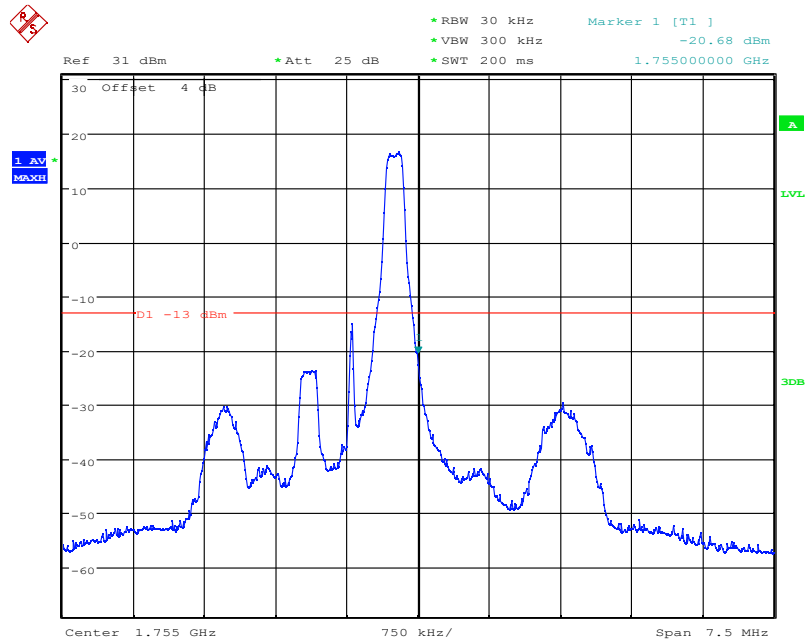


Date: 2.SEP.2021 11:14:01

LTE Band4, 1.4MHz bandwidth, 16QAM,(6,0) Mode , Below 1710MHz

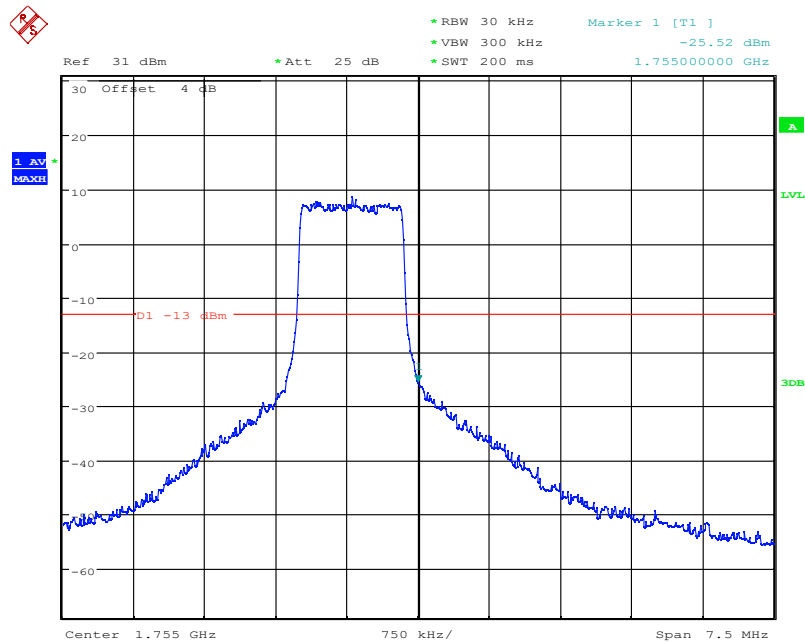
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Date: 2.SEP.2021 11:14:55

LTE Band4, 1.4MHz bandwidth, 16QAM,(1,6) Mode, Above 1755MHz



Date: 2.SEP.2021 11:15:06

LTE Band4, 1.4MHz bandwidth, 16QAM,(6,0) Mode, Above 1755MHz

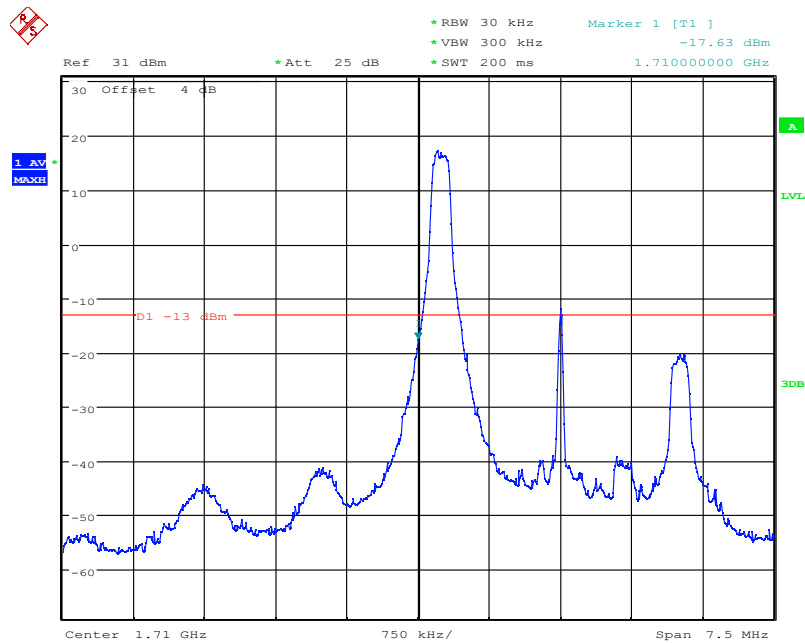
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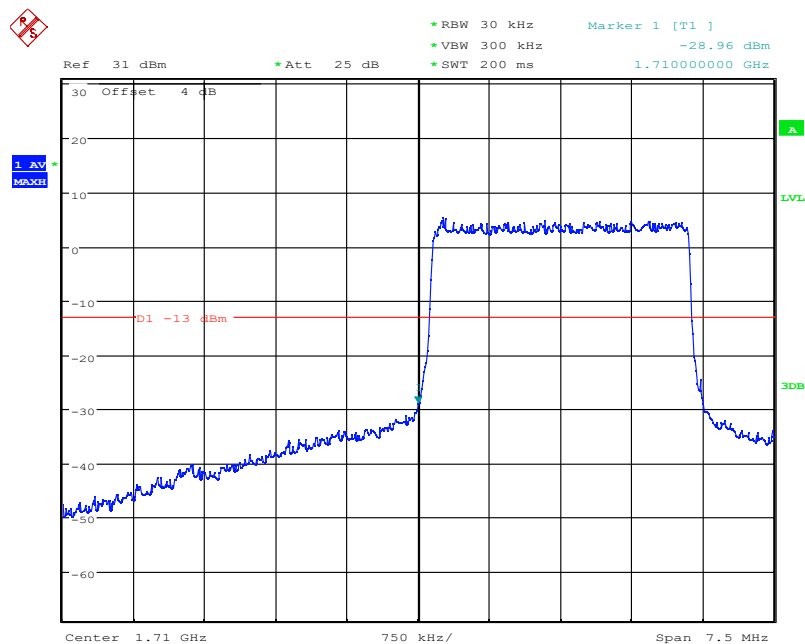


Report No.: I21W00032-WWAN\_Rev2



Date: 2.SEP.2021 13:08:15

LTE Band4, 3MHz bandwidth, QPSK,(1,0) Mode , Below 1710MHz

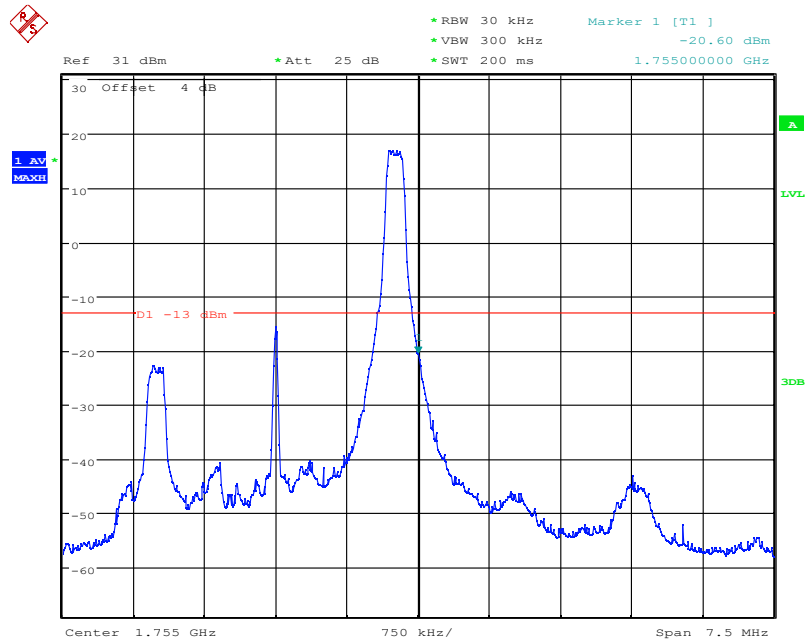


Date: 2.SEP.2021 13:08:30

LTE Band4, 3MHz bandwidth, QPSK,(15,0) Mode , Below 1710MHz

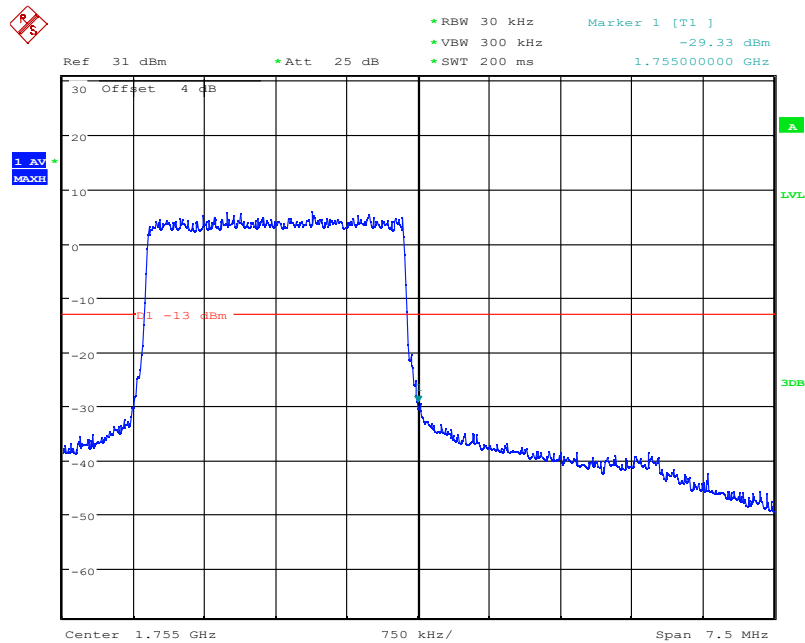
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Date: 2.SEP.2021 13:10:20

LTE Band4, 3MHz bandwidth, QPSK,(1,15) Mode, Above 1755MHz

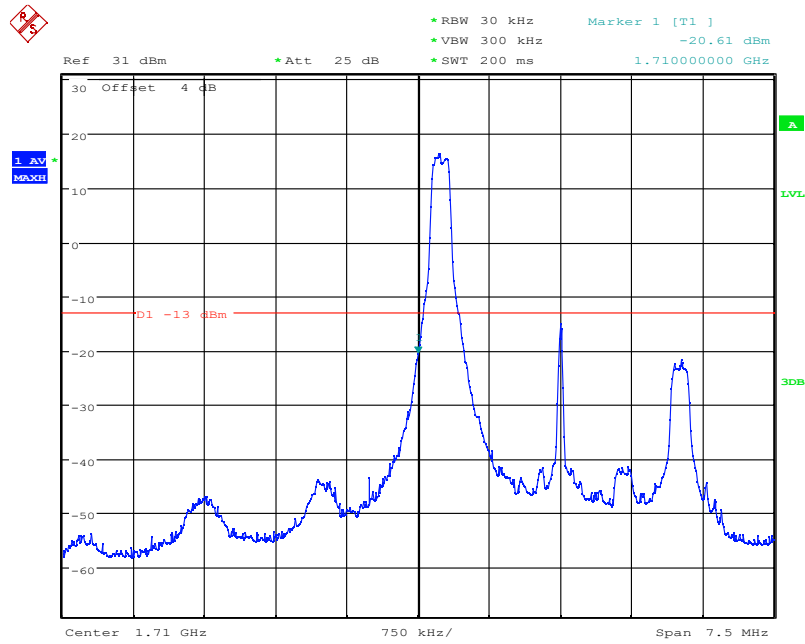


Date: 2.SEP.2021 13:10:07

LTE Band4, 3MHz bandwidth, QPSK,(15,0) Mode, Above 1755MHz

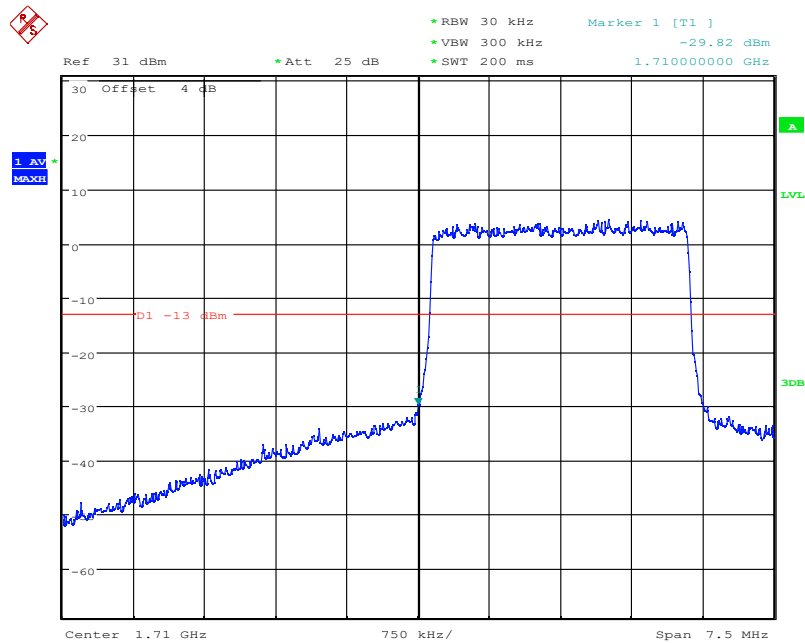
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Date: 2.SEP.2021 13:09:06

LTE Band4, 3MHz bandwidth, 16QAM,(1,0) Mode , Below 1710MHz

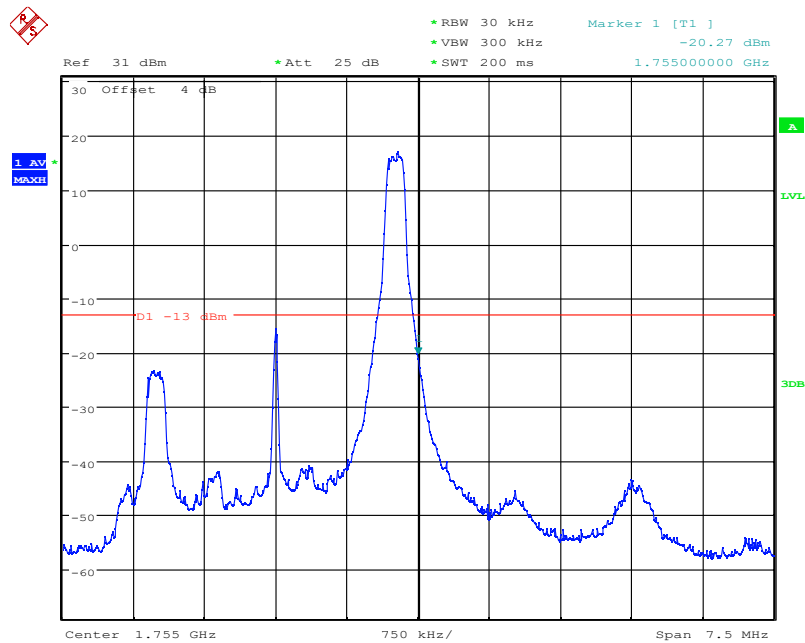


Date: 2.SEP.2021 13:08:44

LTE Band4, 3MHz bandwidth, 16QAM,(15,0) Mode , Below 1710MHz

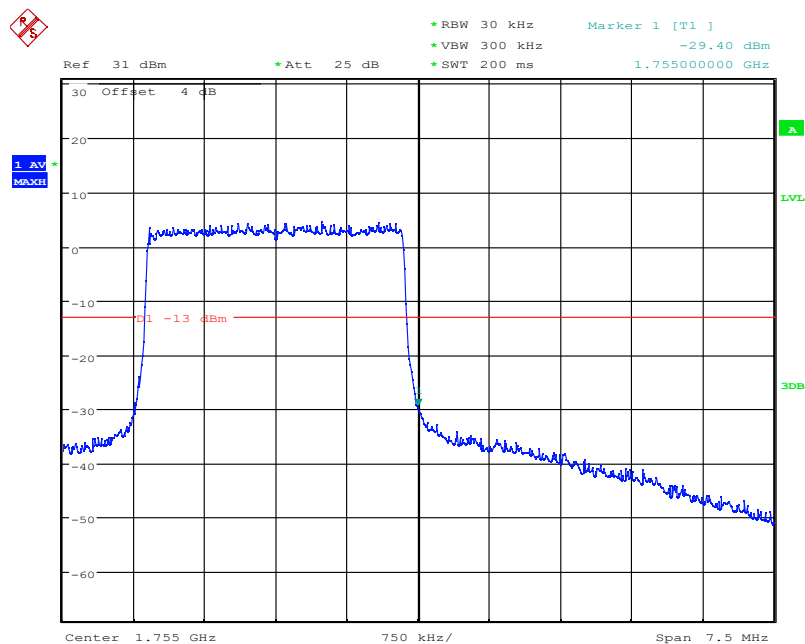
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Date: 2.SEP.2021 13:09:44

LTE Band4, 3MHz bandwidth, 16QAM,(1,15) Mode, Above 1755MHz

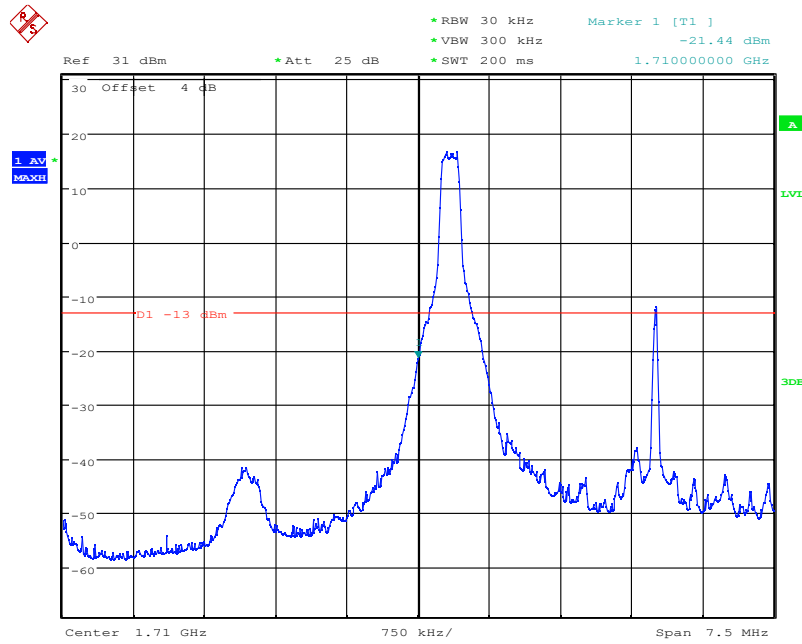


Date: 2.SEP.2021 13:09:56

LTE Band4, 3MHz bandwidth, 16QAM,(15,0) Mode, Above 1755MHz

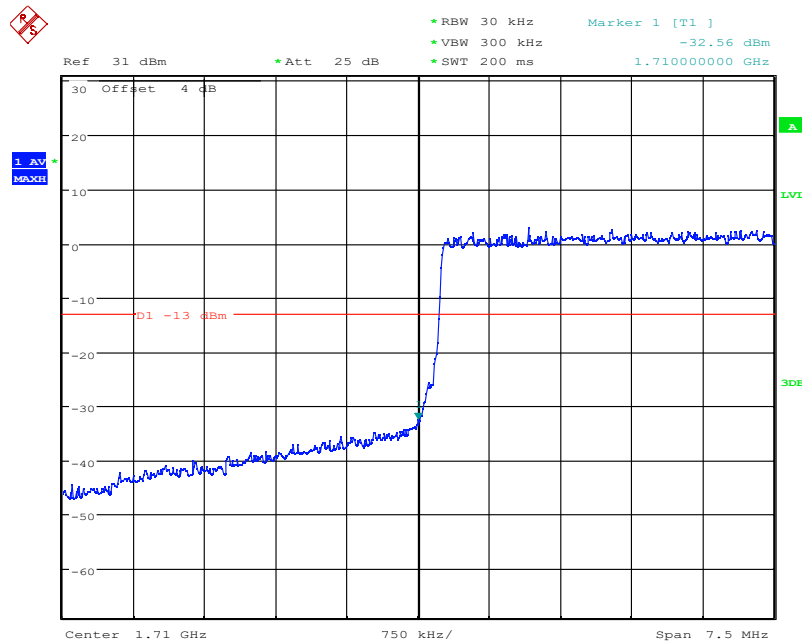
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Date: 2.SEP.2021 13:11:10

LTE Band4, 5MHz bandwidth, QPSK,(1,0) Mode , Below 1710MHz

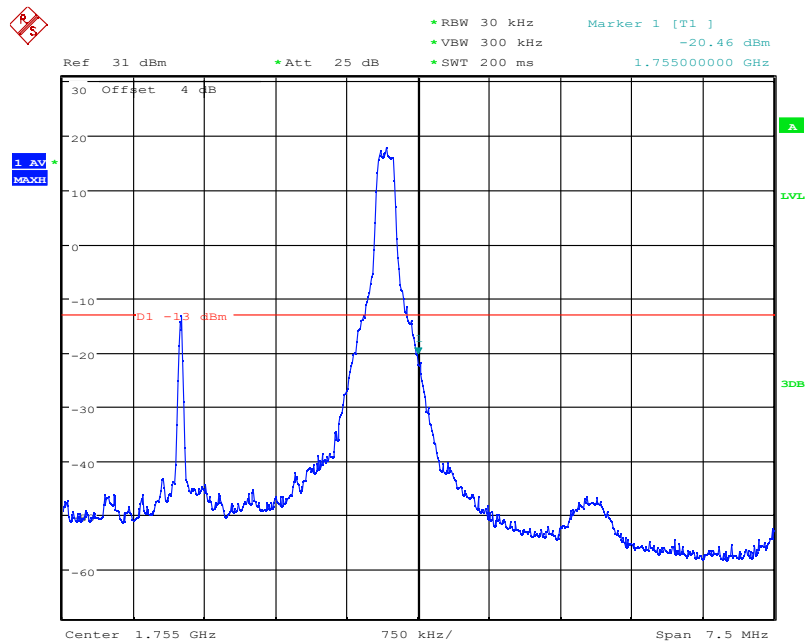


Date: 2.SEP.2021 13:11:21

LTE Band4, 5MHz bandwidth, QPSK,(25,0) Mode , Below 1710MHz

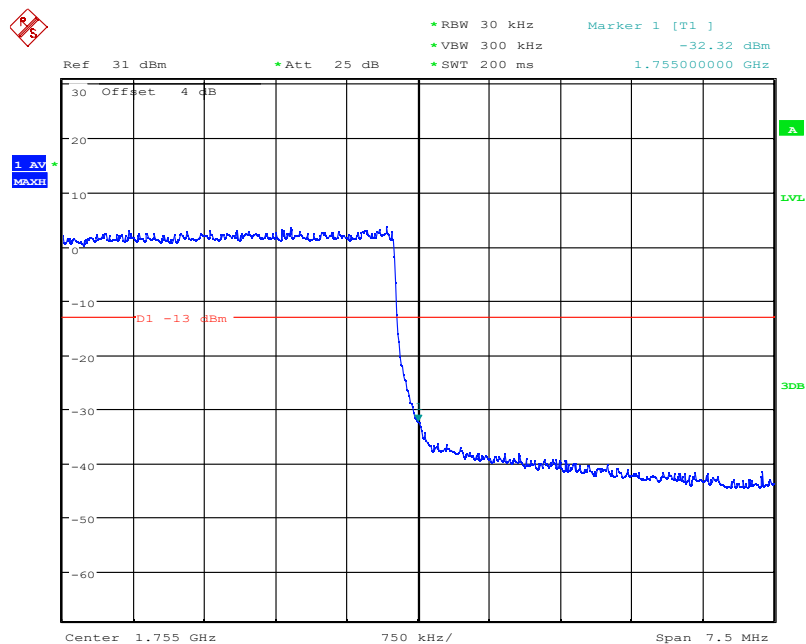
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Date: 2.SEP.2021 13:13:32

LTE Band4, 5MHz bandwidth, QPSK,(1,25) Mode, Above 1755MHz

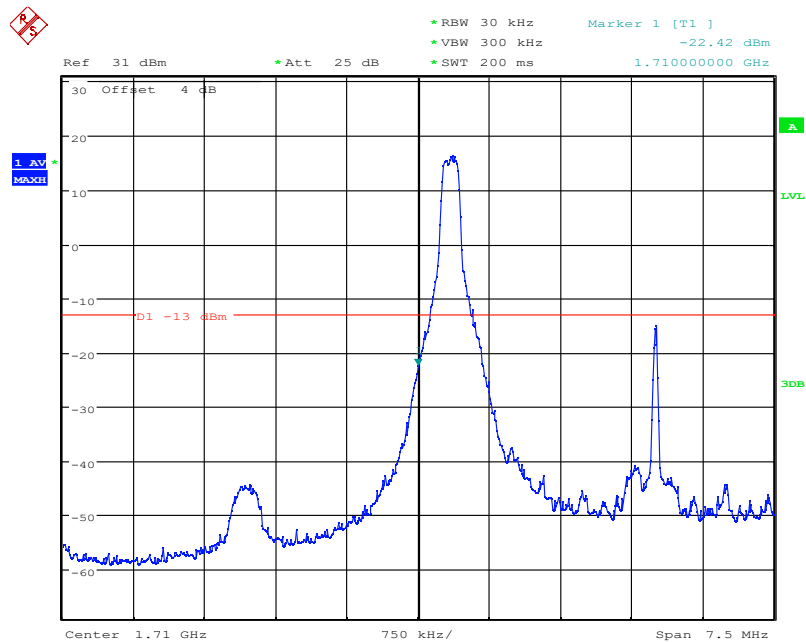


Date: 2.SEP.2021 13:13:18

LTE Band4, 5MHz bandwidth, QPSK,(25,0) Mode, Above 1755MHz

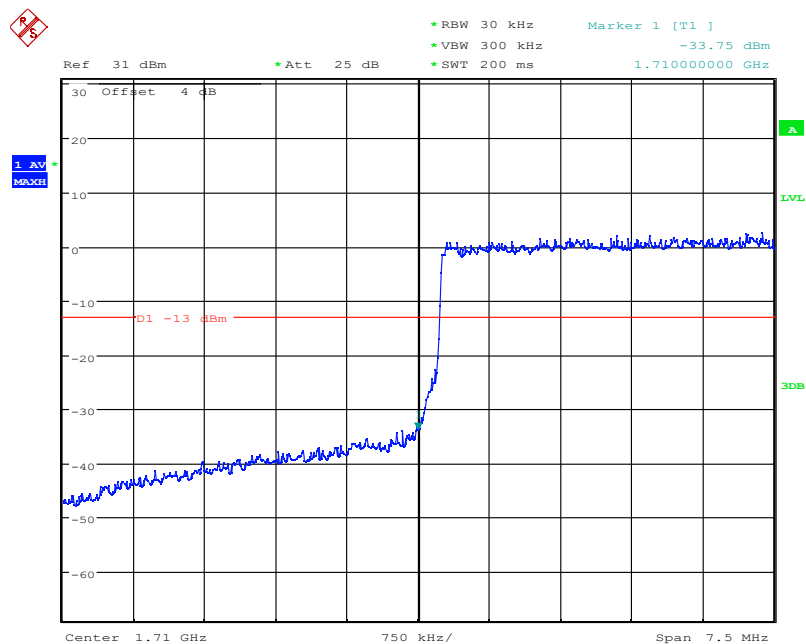
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Date: 2.SEP.2021 13:11:58

LTE Band4, 5MHz bandwidth, 16QAM,(1,0) Mode , Below 1710MHz

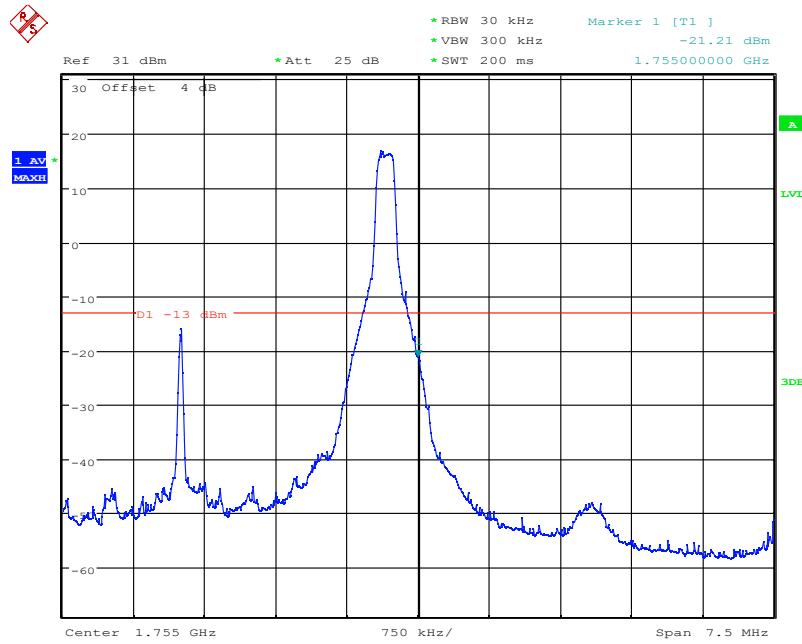


Date: 2.SEP.2021 13:11:37

LTE Band4, 5MHz bandwidth, 16QAM,(25,0) Mode , Below 1710MHz

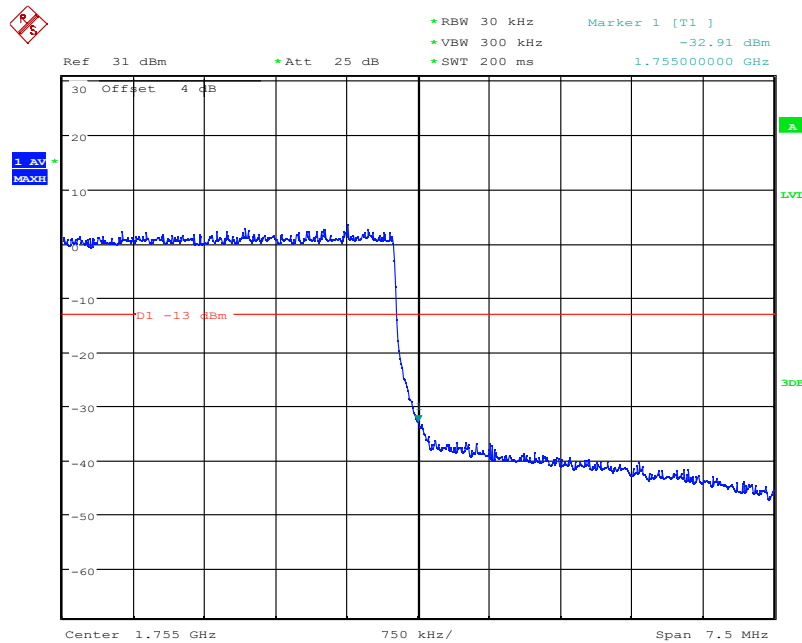
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Date: 2.SEP.2021 13:12:41

LTE Band4, 5MHz bandwidth, 16QAM,(1,25) Mode, Above 1755MHz



Date: 2.SEP.2021 13:13:00

LTE Band4, 5MHz bandwidth, 16QAM,(25,0) Mode, Above 1755MHz

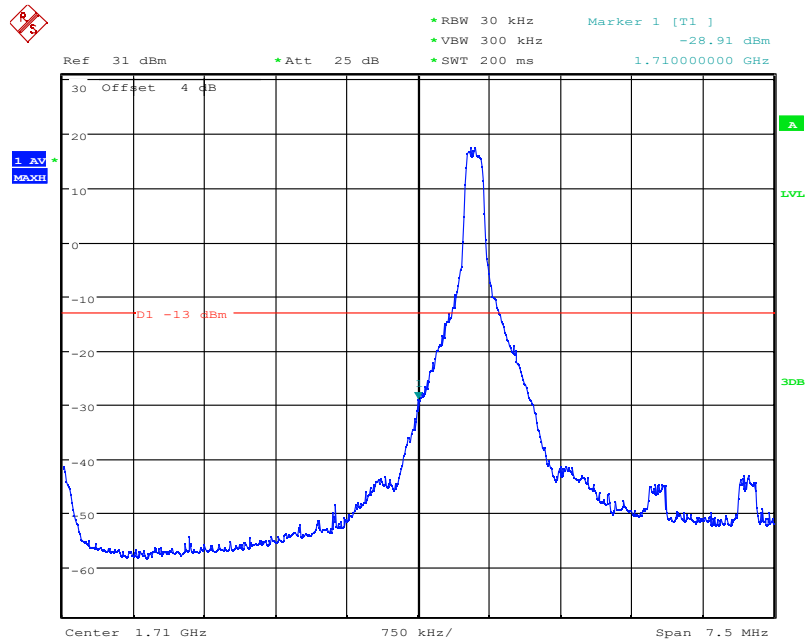
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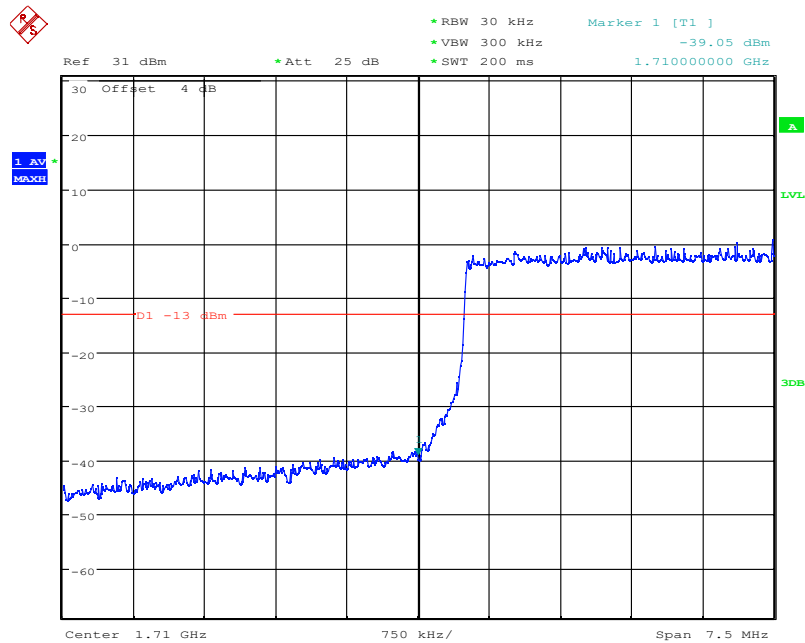


Report No.: I21W00032-WWAN\_Rev2



Date: 2.SEP.2021 13:14:39

LTE Band4, 10MHz bandwidth, QPSK,(1,0) Mode , Below 1710MHz

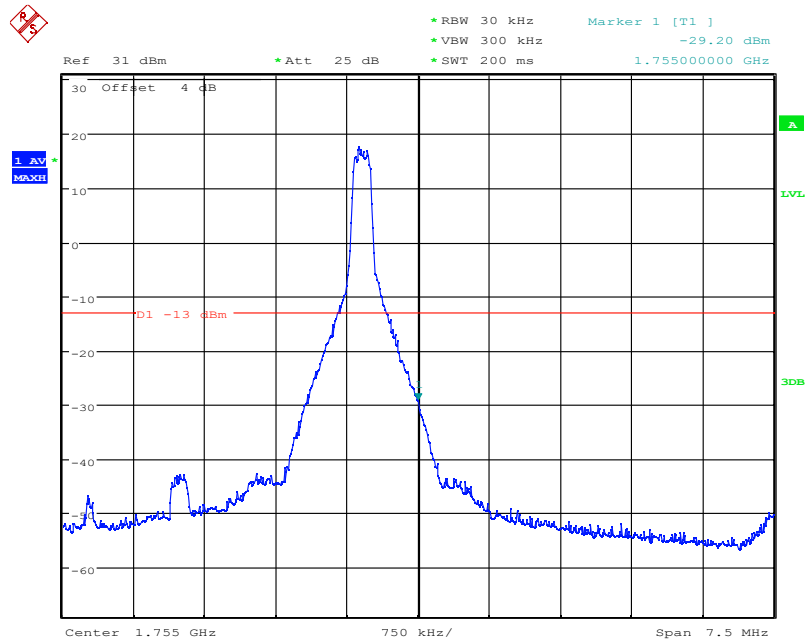


Date: 2.SEP.2021 13:14:55

LTE Band4, 10MHz bandwidth, QPSK,(50,0) Mode , Below 1710MHz

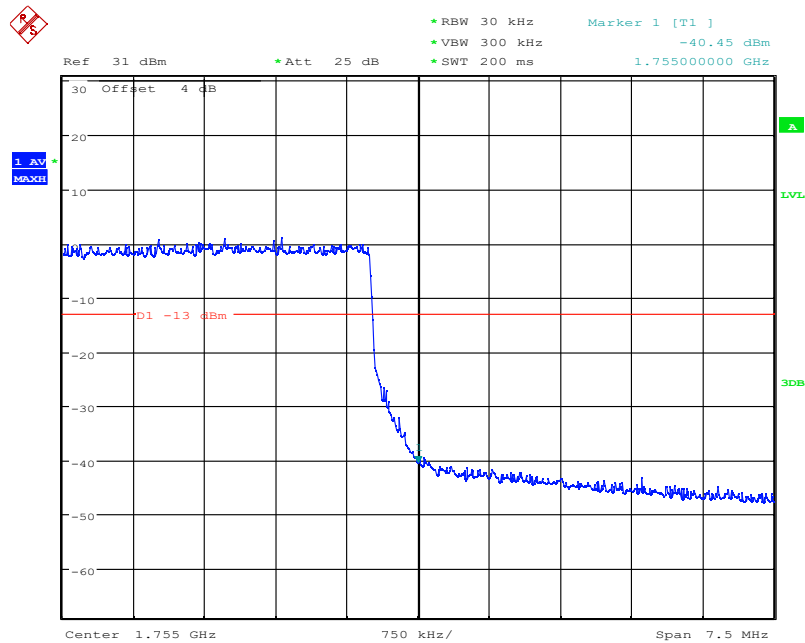
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Date: 2.SEP.2021 13:21:47

LTE Band4, 10MHz bandwidth, QPSK,(1,50) Mode, Above 1755MHz

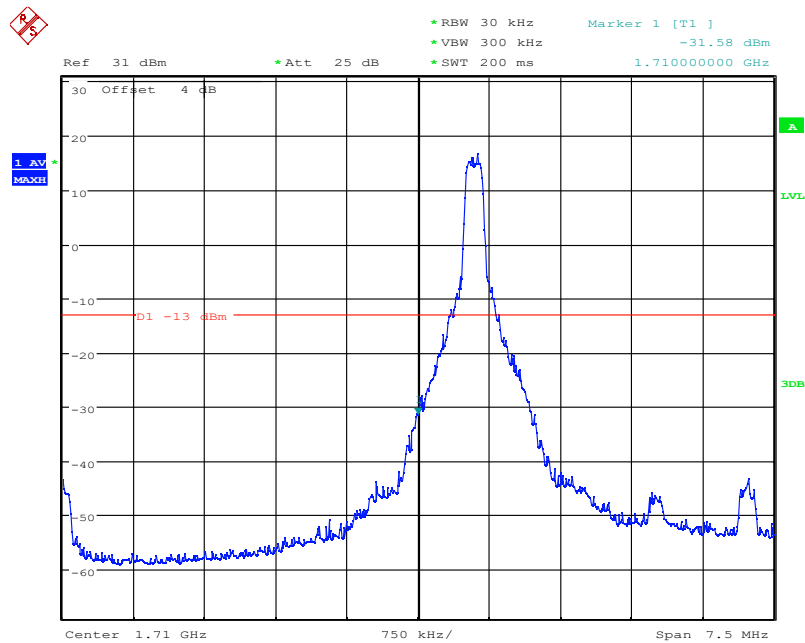


Date: 2.SEP.2021 13:21:57

LTE Band4, 10MHz bandwidth, QPSK,(50,0) Mode, Above 1755MHz

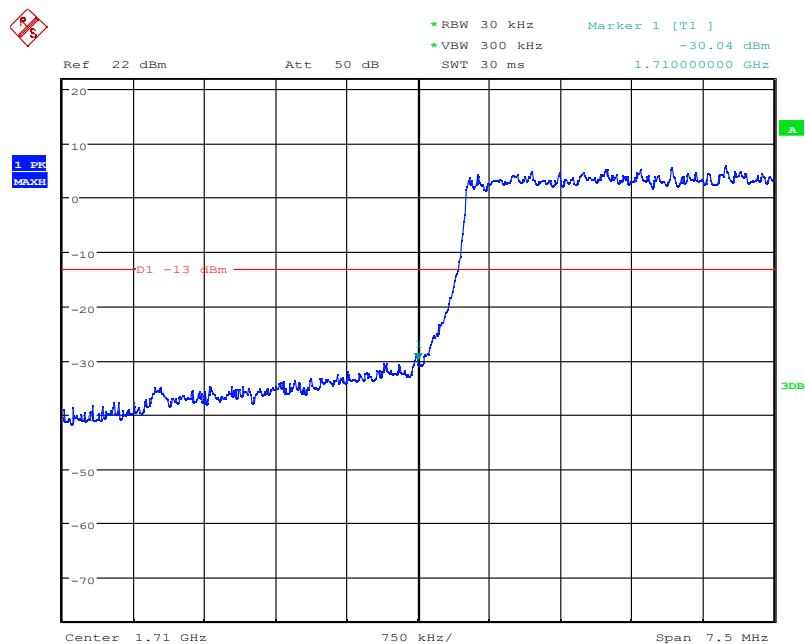
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Date: 2.SEP.2021 13:19:20

LTE Band4, 10MHz bandwidth, 16QAM,(1,0) Mode , Below 1710MHz



Date: 8.SEP.2021 20:44:09

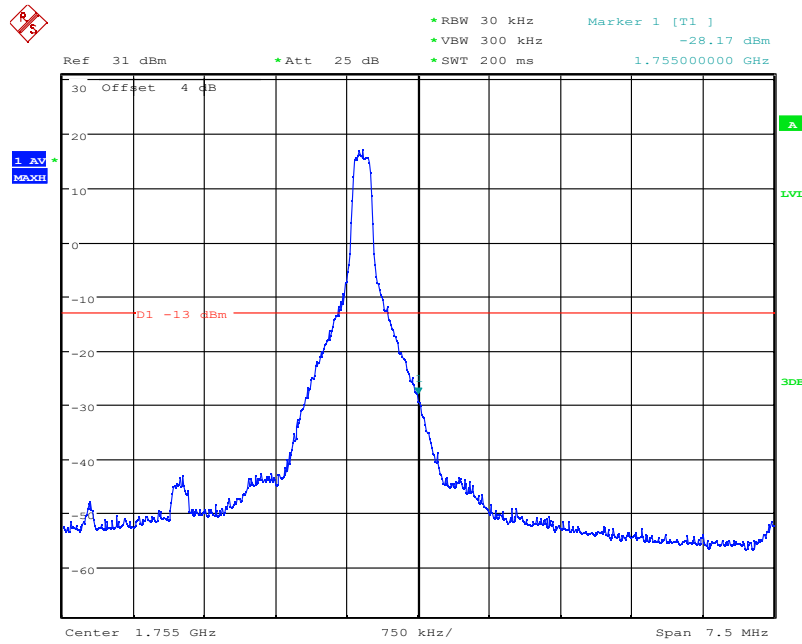
LTE Band4, 10MHz bandwidth, 16QAM,(27,0) Mode , Below 1710MHz

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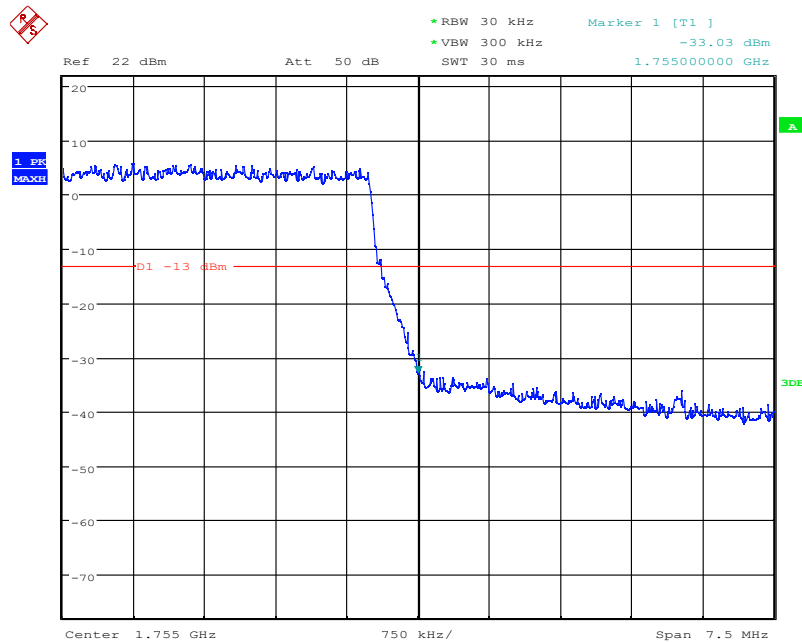


Report No.: I21W00032-WWAN\_Rev2



Date: 2.SEP.2021 13:21:33

LTE Band4, 10MHz bandwidth, 16QAM,(1,50) Mode, Above 1755MHz

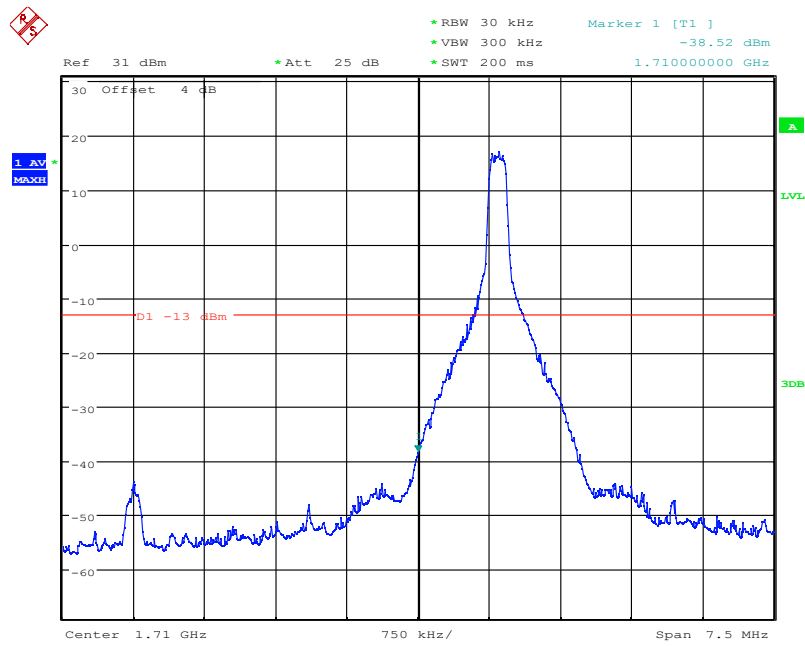


Date: 8.SEP.2021 20:44:51

LTE Band4, 10MHz bandwidth, 16QAM,(27,0) Mode, Above 1755MHz

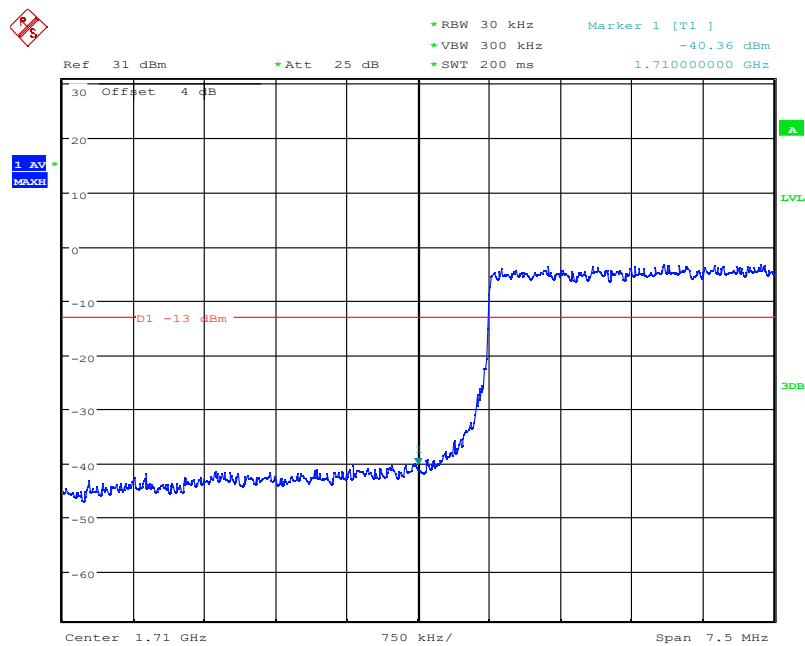
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Date: 2.SEP.2021 13:22:44

LTE Band4, 15MHz bandwidth, QPSK,(1,0) Mode , Below 1710MHz

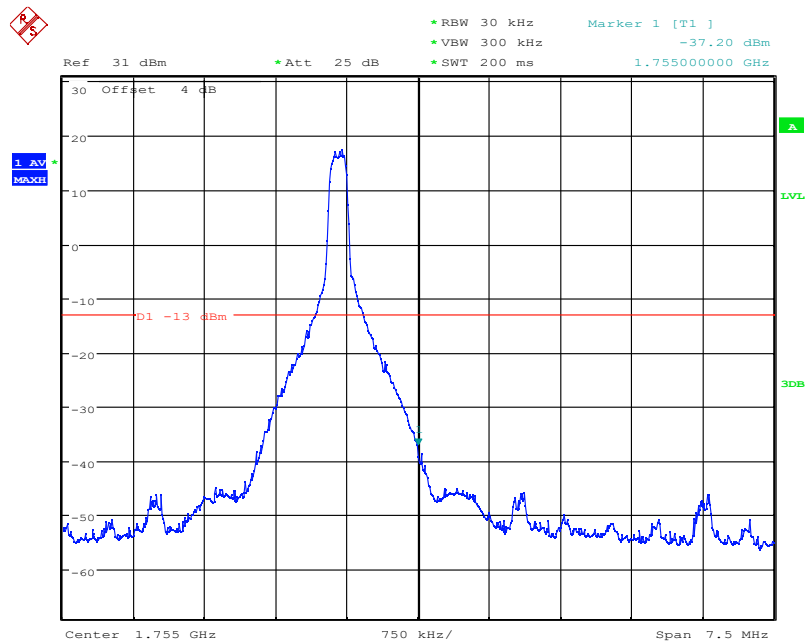


Date: 2.SEP.2021 13:23:01

LTE Band4, 15MHz bandwidth, QPSK,(75,0) Mode , Below 1710MHz

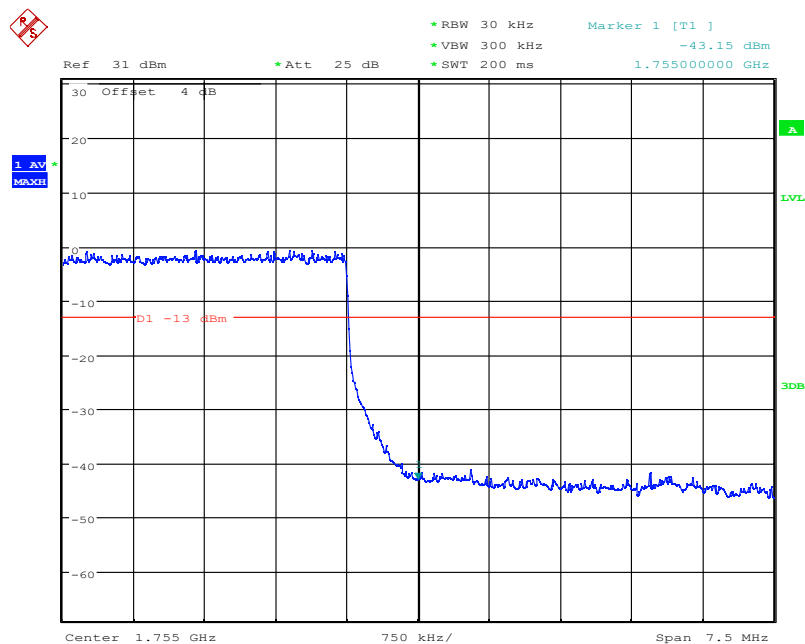
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Date: 2.SEP.2021 13:24:09

LTE Band4, 15MHz bandwidth, QPSK,(1,75) Mode, Above 1755MHz



Date: 2.SEP.2021 13:24:22

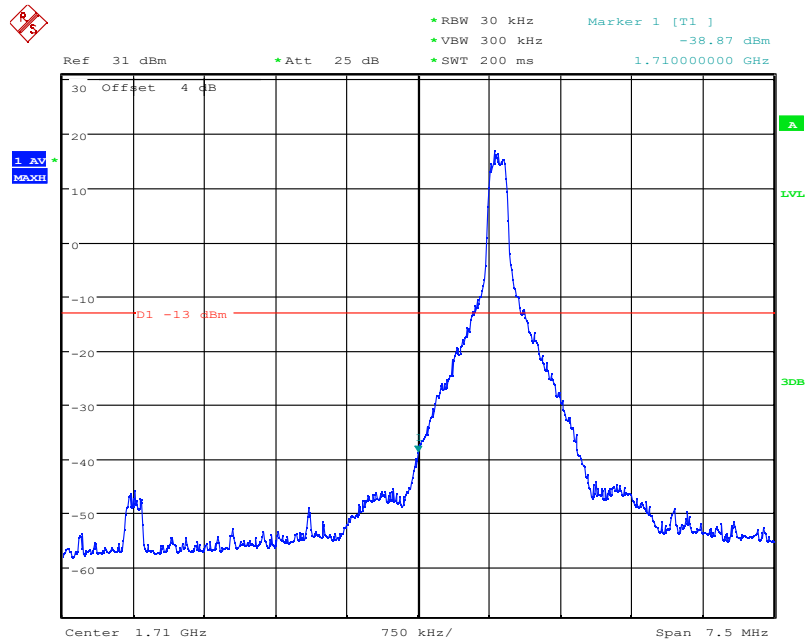
LTE Band4, 15MHz bandwidth, QPSK,(75,0) Mode, Above 1755MHz

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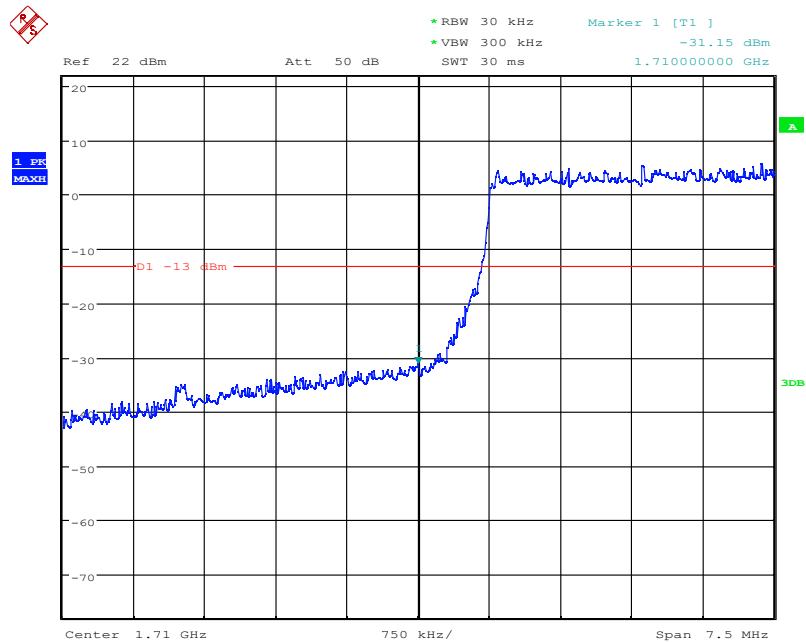


Report No.: I21W00032-WWAN\_Rev2



Date: 2.SEP.2021 13:23:23

LTE Band4, 15MHz bandwidth, 16QAM,(1,0) Mode , Below 1710MHz



Date: 8.SEP.2021 20:46:07

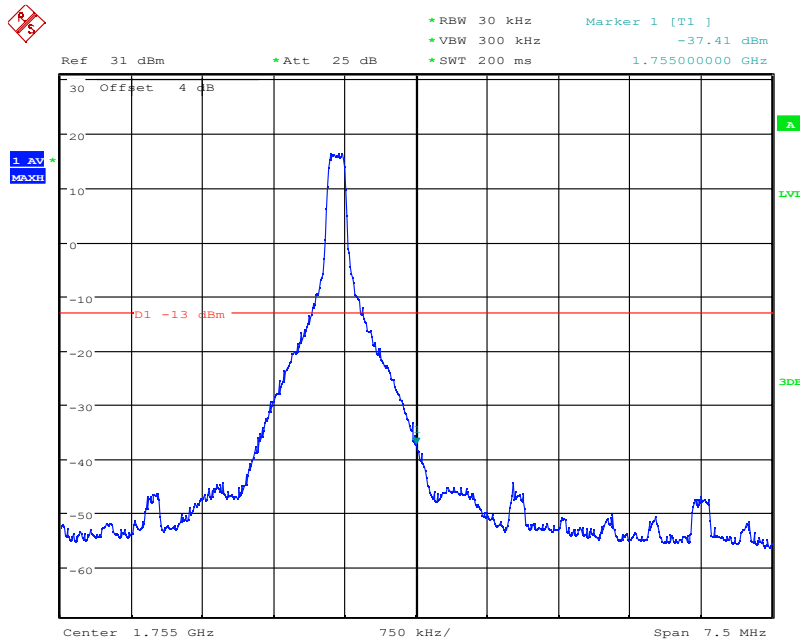
LTE Band4, 15MHz bandwidth, 16QAM,(27,0) Mode , Below 1710MHz

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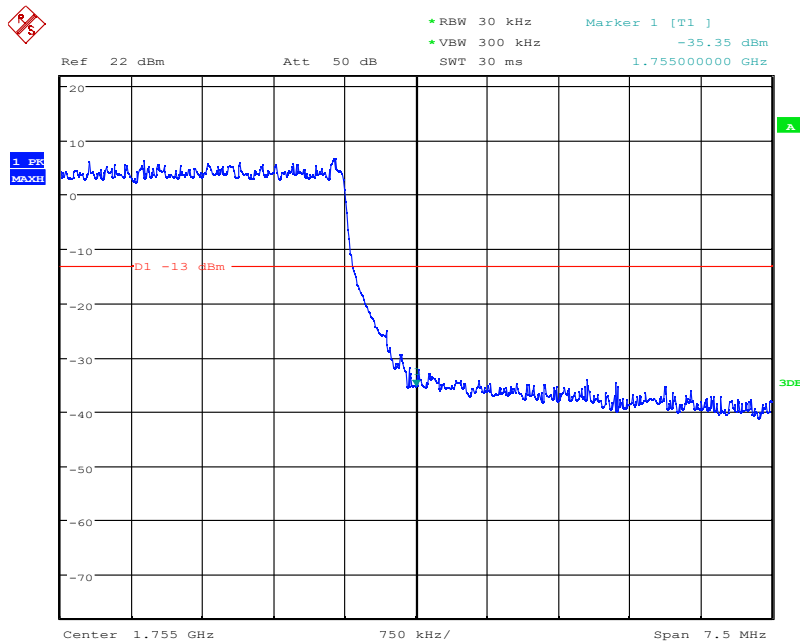


Report No.: I21W00032-WWAN\_Rev2



Date: 2.SEP.2021 13:23:58

LTE Band4, 15MHz bandwidth, 16QAM,(1,75) Mode, Above 1755MHz



Date: 8.SEP.2021 20:45:24

LTE Band4, 15MHz bandwidth, 16QAM,(27,0) Mode, Above 1755MHz

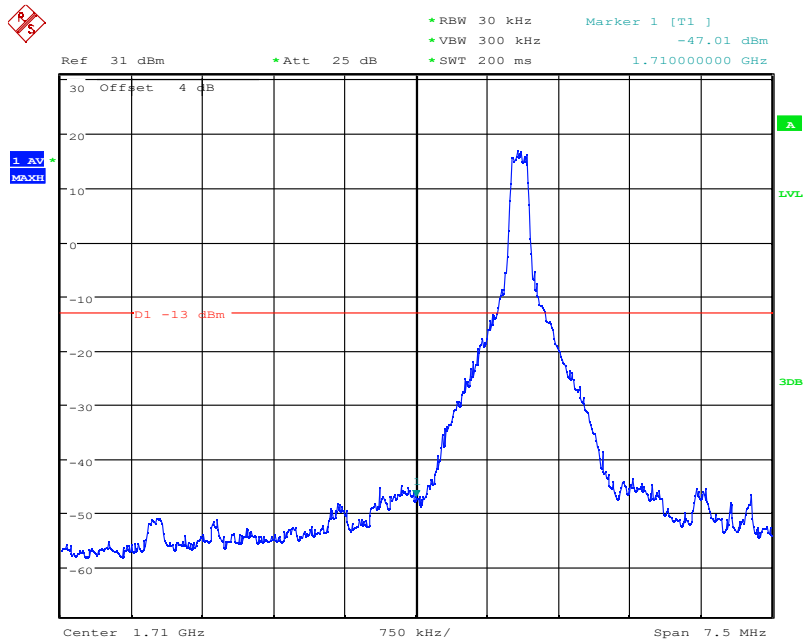
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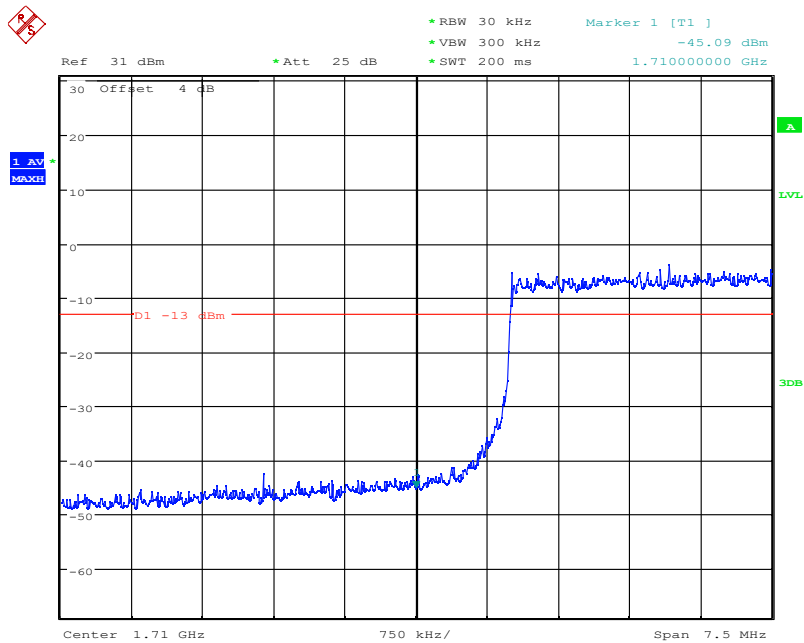


Report No.: I21W00032-WWAN\_Rev2



Date: 2.SEP.2021 13:26:56

LTE Band4, 20MHz bandwidth, QPSK,(1,0) Mode , Below 1710MHz

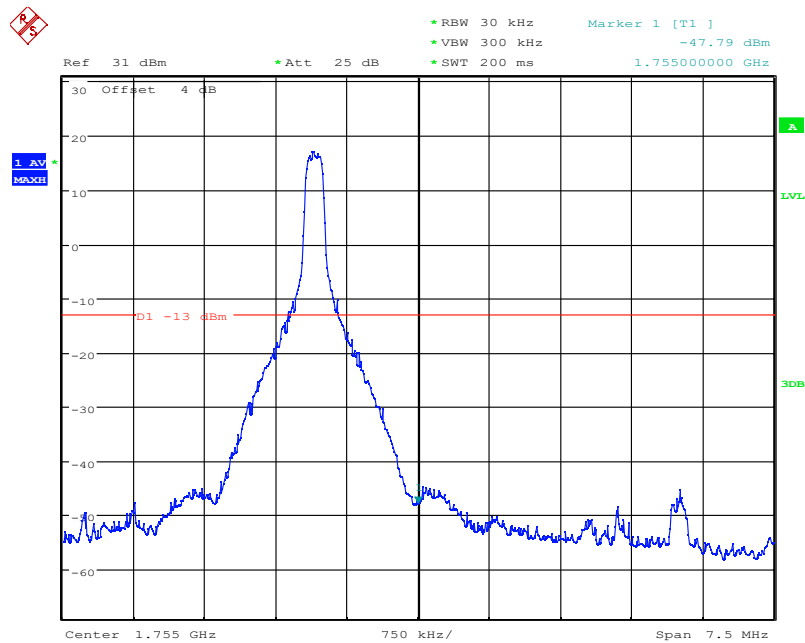


Date: 2.SEP.2021 13:26:41

LTE Band4, 20MHz bandwidth, QPSK,(100,0) Mode , Below 1710MHz

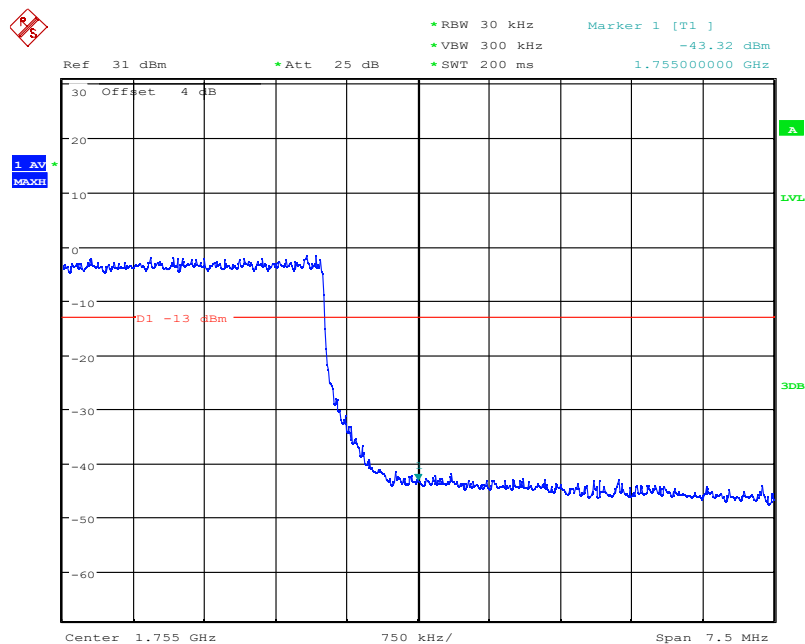
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Date: 2.SEP.2021 13:29:49

LTE Band4, 20MHz bandwidth, QPSK,(1,100) Mode, Above 1755MHz



Date: 2.SEP.2021 13:30:01

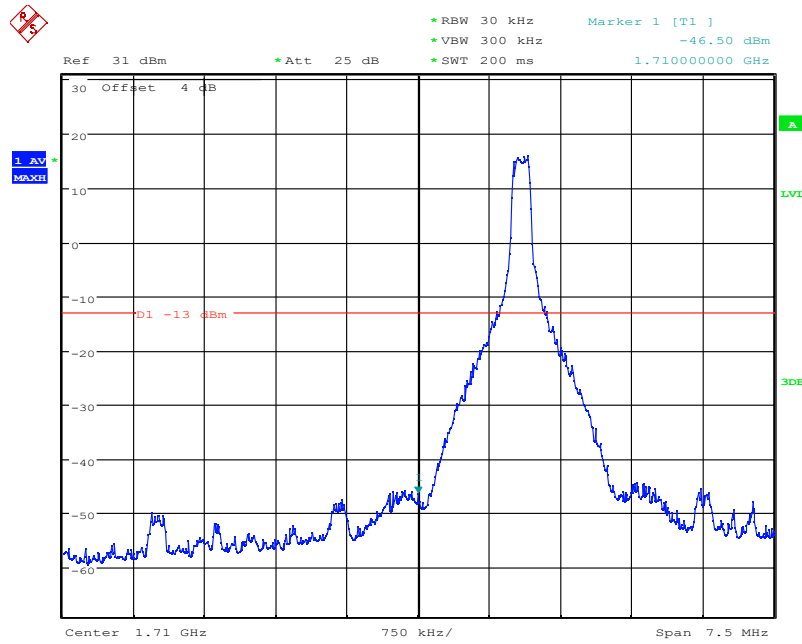
LTE Band4, 20MHz bandwidth, QPSK,(100,0) Mode, Above 1755MHz

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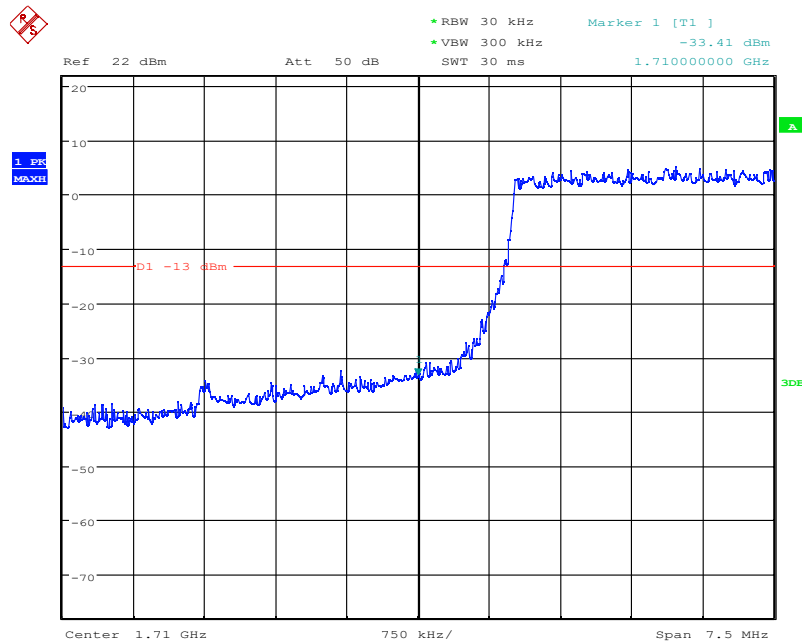


Report No.: I21W00032-WWAN\_Rev2



Date: 2.SEP.2021 13:27:09

LTE Band4, 20MHz bandwidth, 16QAM,(1,0) Mode , Below 1710MHz

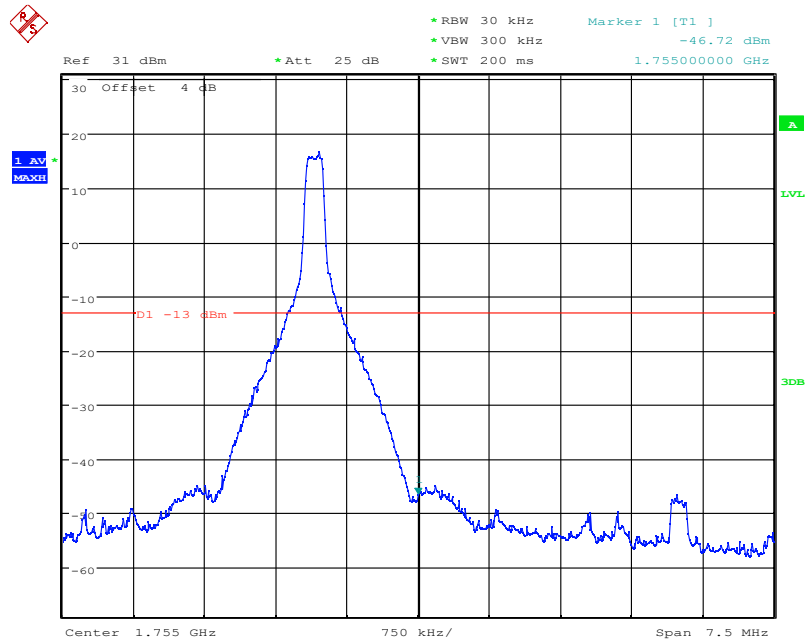


Date: 8.SEP.2021 20:46:40

LTE Band4, 20MHz bandwidth, 16QAM,(27,0) Mode , Below 1710MHz

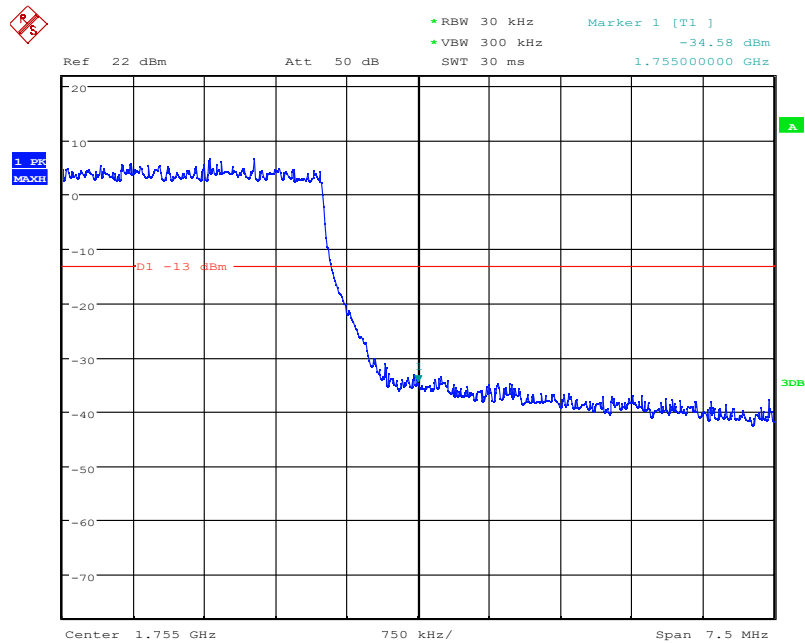
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Date: 2.SEP.2021 13:29:38

LTE Band4, 20MHz bandwidth, 16QAM,(1,100) Mode, Above 1755MHz



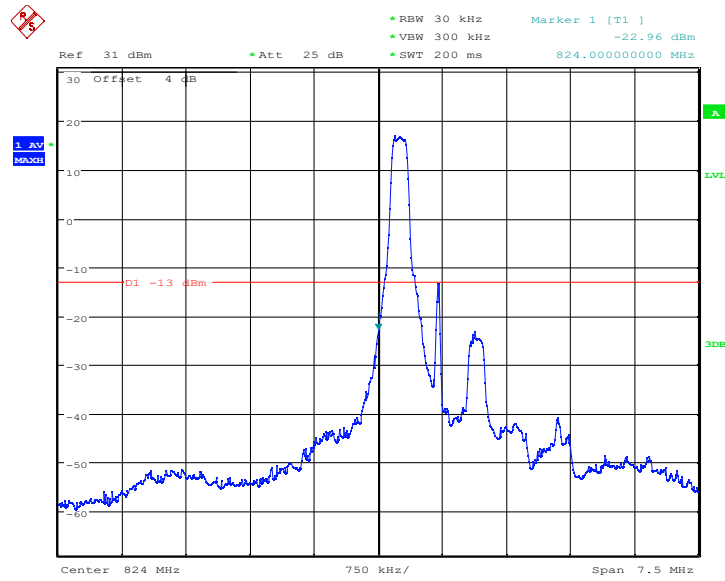
Date: 8.SEP.2021 20:47:03

LTE Band4, 20MHz bandwidth, 16QAM,(27,0) Mode, Above 1755MHz

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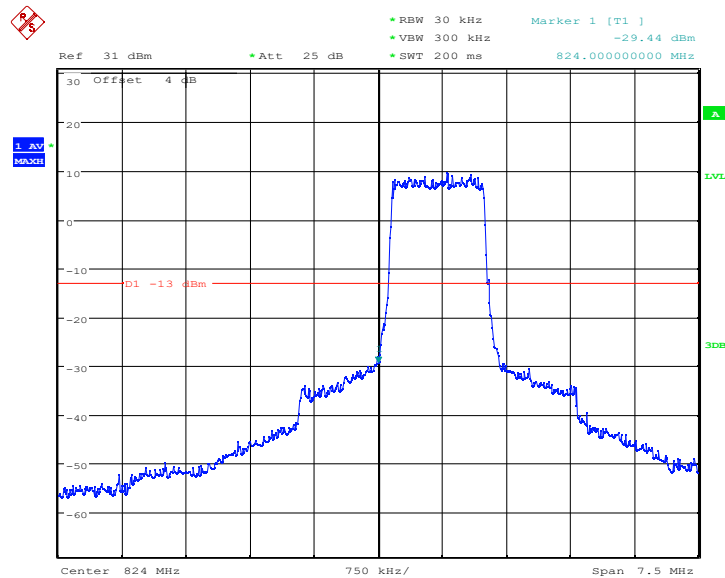
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### 6.7.5 LTE B5 Band Edge Results



Date: 2.SEP.2021 13:33:50

LTE Band5, 1.4MHz bandwidth, QPSK,(1,0) Mode , Below 824MHz



Date: 2.SEP.2021 13:34:01

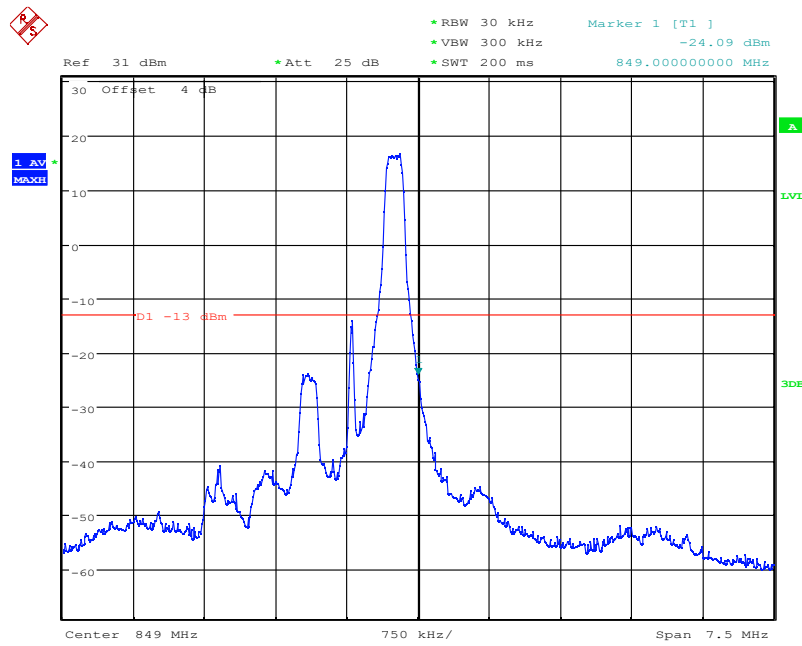
LTE Band5, 1.4MHz bandwidth, QPSK,(6,0) Mode , Below 824MHz

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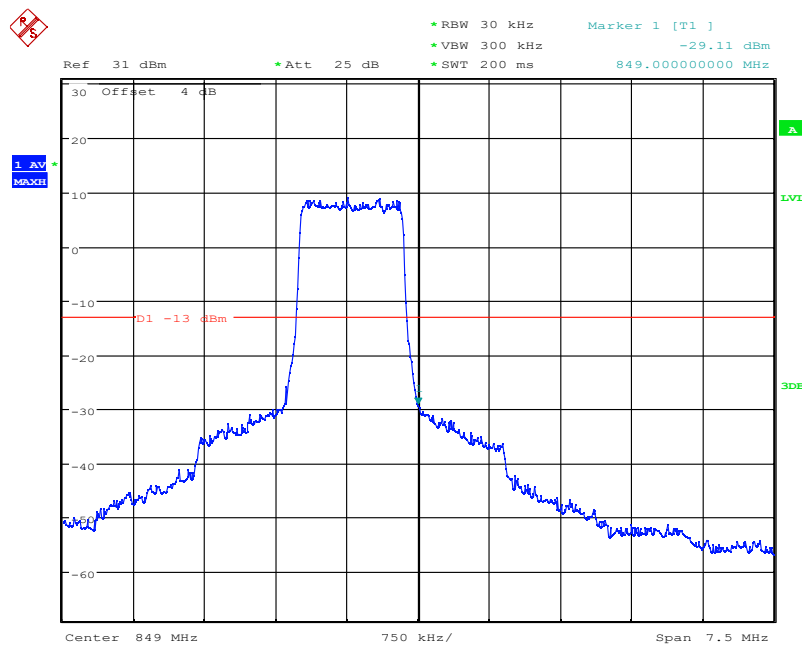


Report No.: I21W00032-WWAN\_Rev2



Date: 2.SEP.2021 13:35:43

LTE Band5, 1.4MHz bandwidth, QPSK,(1,6) Mode, Above 849MHz

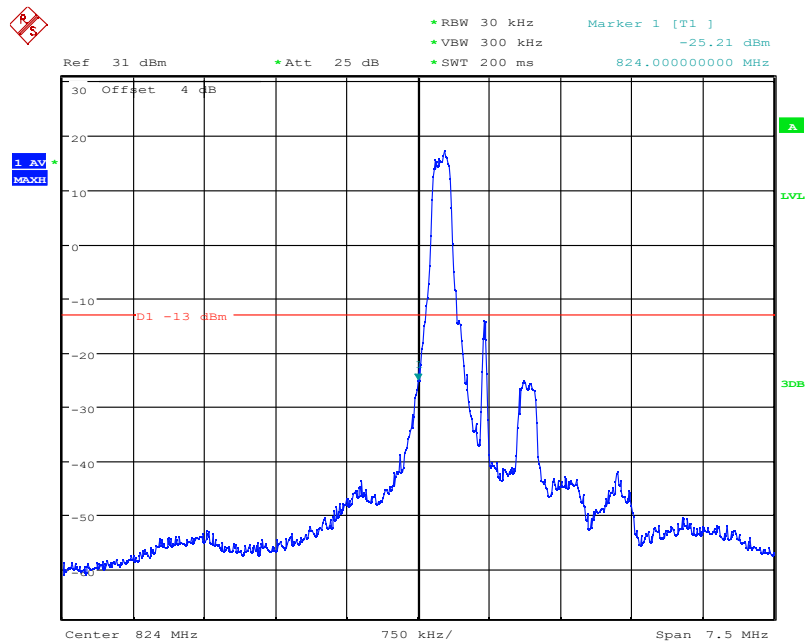


Date: 2.SEP.2021 13:35:30

LTE Band5, 1.4MHz bandwidth, QPSK,(6,0) Mode, Above 849MHz

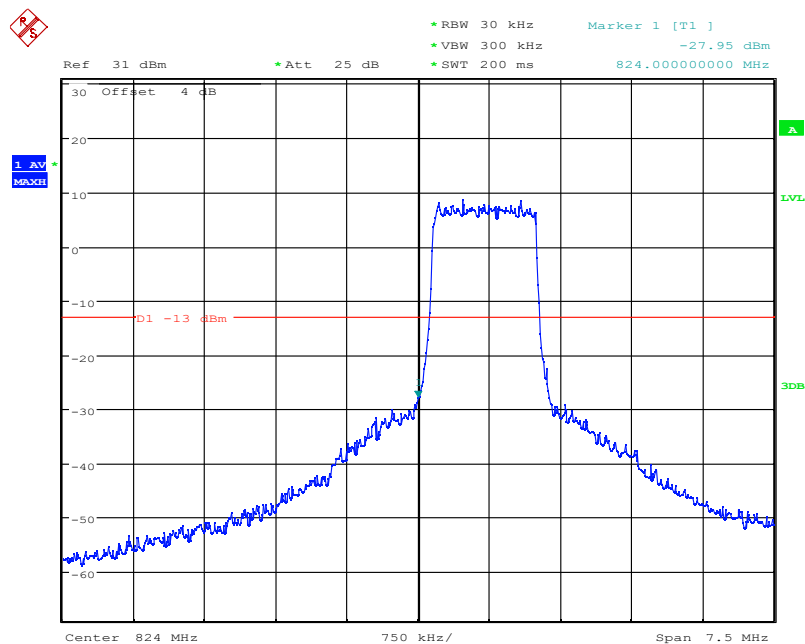
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Date: 2.SEP.2021 13:34:24

LTE Band5, 1.4MHz bandwidth, 16QAM,(1,0) Mode , Below 824MHz

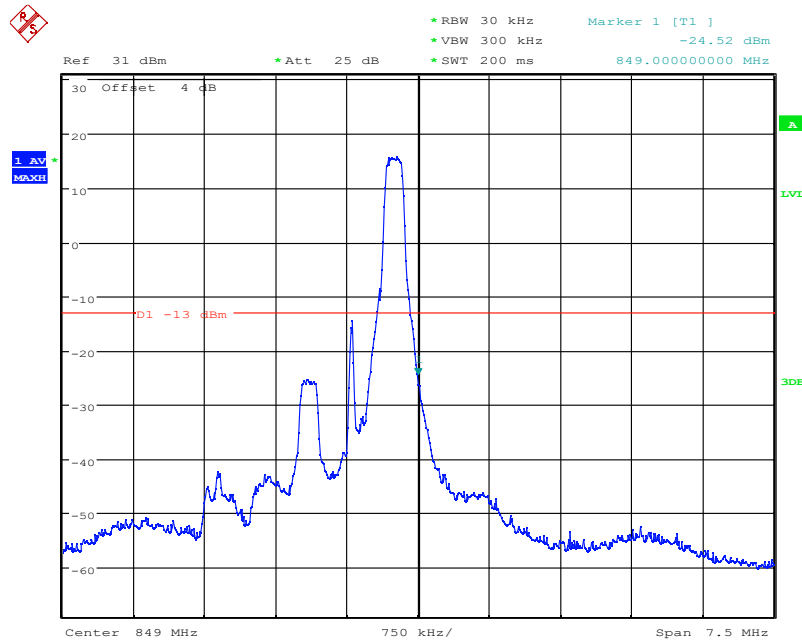


Date: 2.SEP.2021 13:34:13

LTE Band5, 1.4MHz bandwidth, 16QAM,(6,0) Mode , Below 824MHz

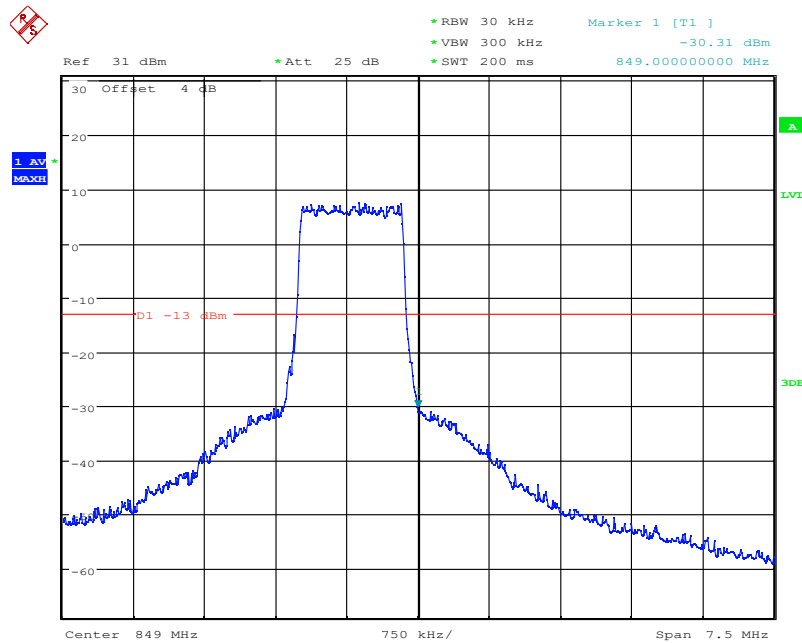
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Date: 2.SEP.2021 13:35:07

LTE Band5, 1.4MHz bandwidth, 16QAM,(1,6) Mode, Above 849MHz



Date: 2.SEP.2021 13:35:16

LTE Band5, 1.4MHz bandwidth, 16QAM,(6,0) Mode, Above 849MHz

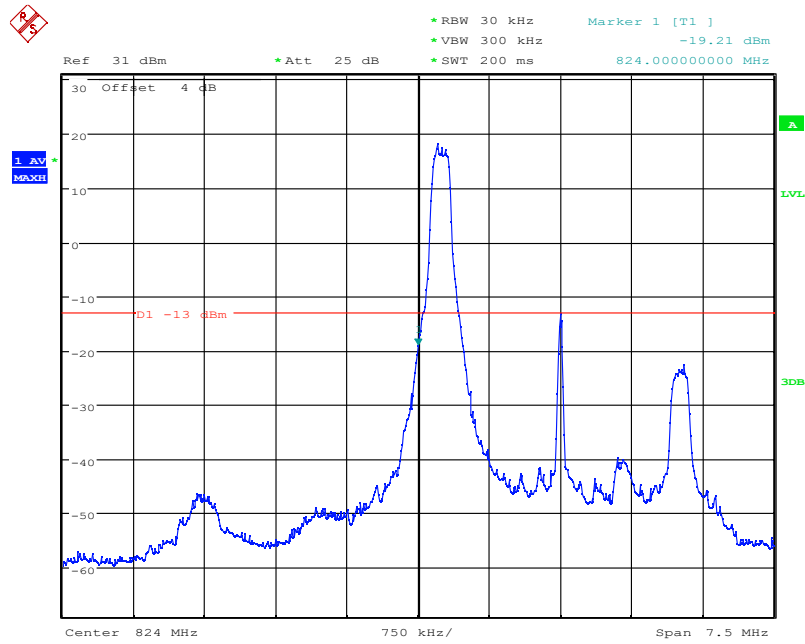
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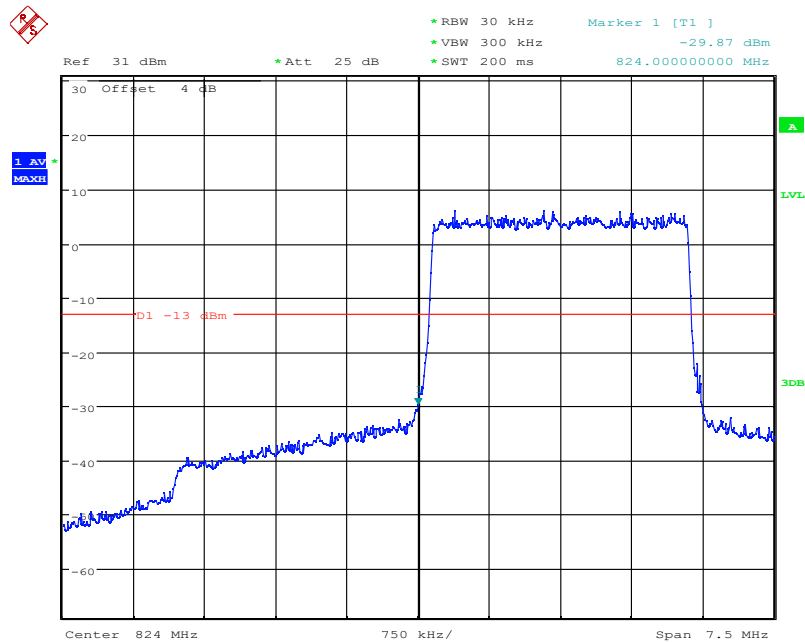


Report No.: I21W00032-WWAN\_Rev2



Date: 2.SEP.2021 13:37:03

LTE Band5, 3MHz bandwidth, QPSK,(1,0) Mode , Below 824MHz

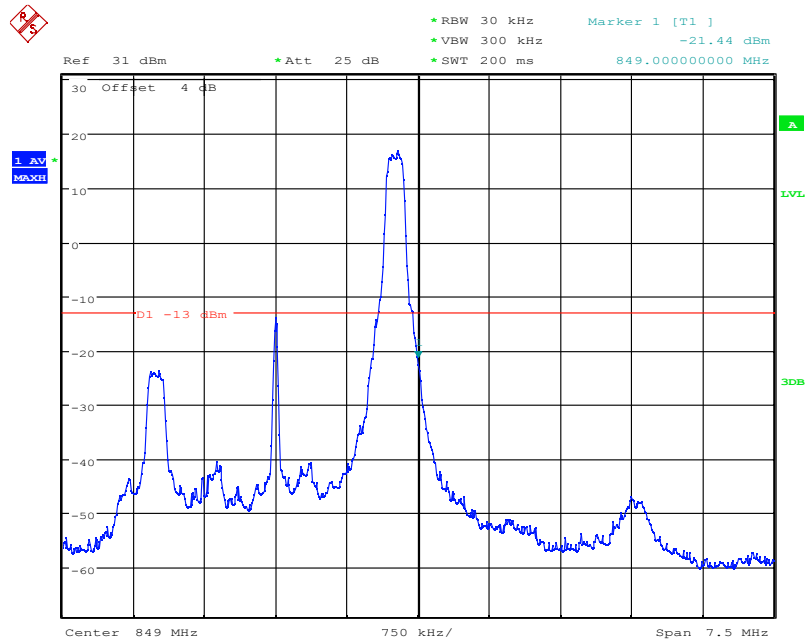


Date: 2.SEP.2021 13:37:16

LTE Band5, 3MHz bandwidth, QPSK,(15,0) Mode , Below 824MHz

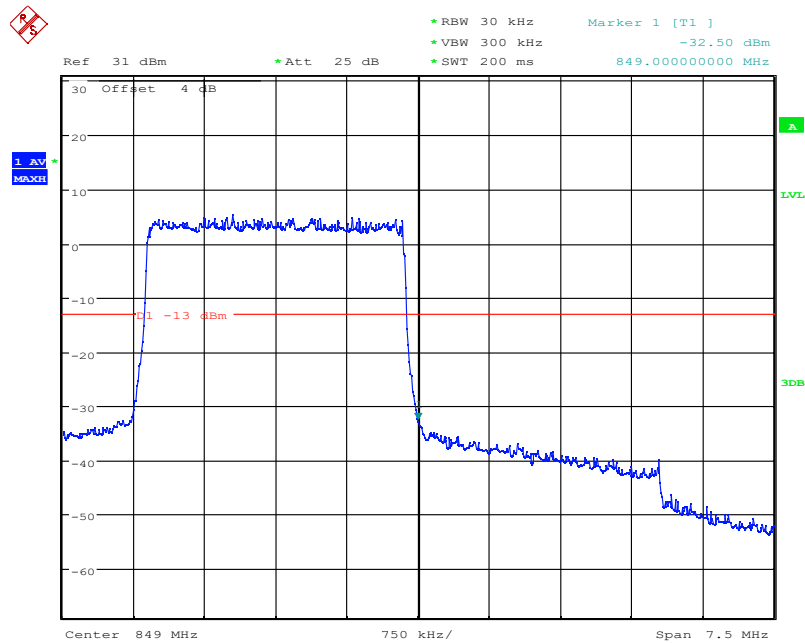
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Date: 2.SEP.2021 13:39:11

LTE Band5, 3MHz bandwidth, QPSK,(1,15) Mode, Above 849MHz

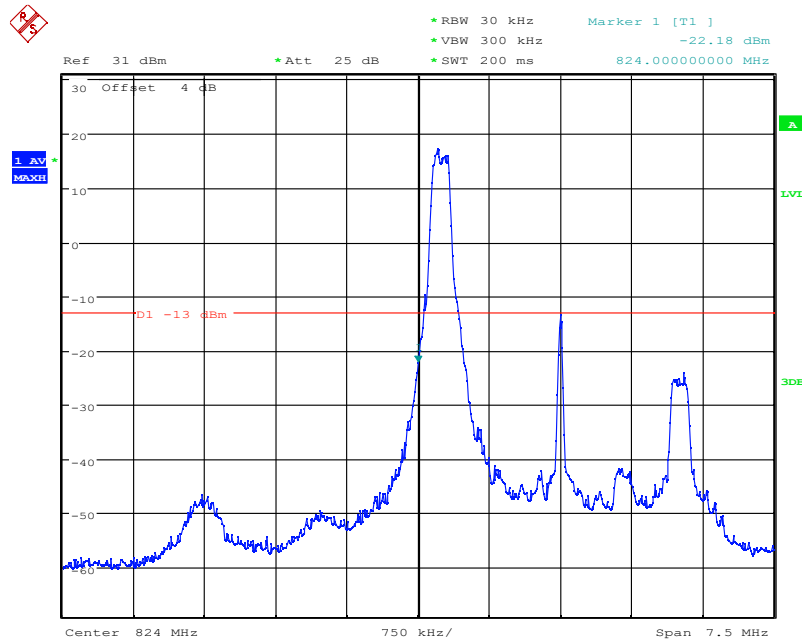


Date: 2.SEP.2021 13:39:01

LTE Band5, 3MHz bandwidth, QPSK,(15,0) Mode, Above 849MHz

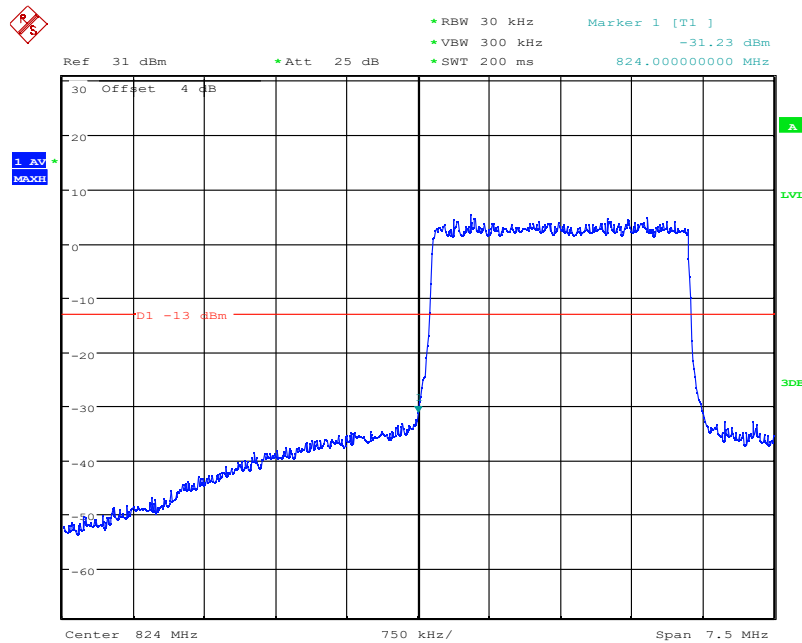
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Date: 2.SEP.2021 13:37:40

LTE Band5, 3MHz bandwidth, 16QAM,(1,0) Mode , Below 824MHz

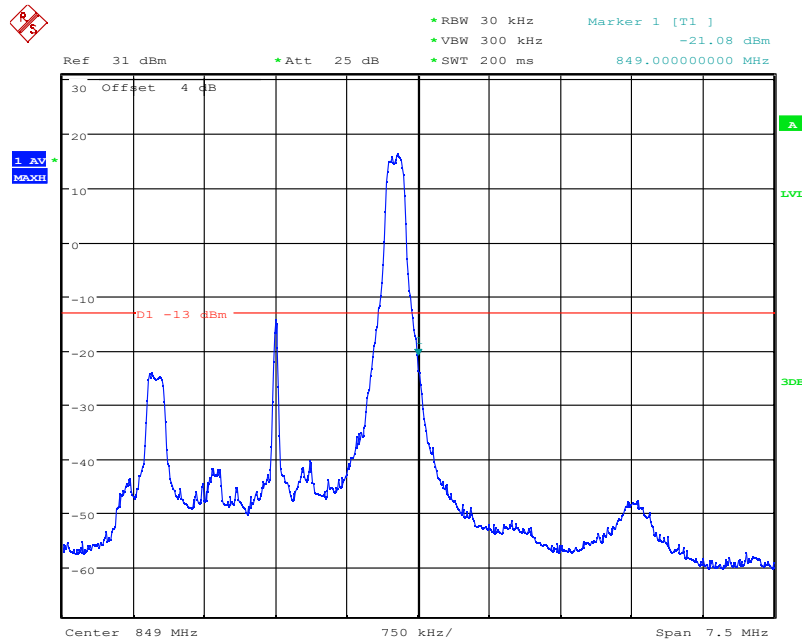


Date: 2.SEP.2021 13:37:28

LTE Band5, 3MHz bandwidth, 16QAM,(15,0) Mode , Below 824MHz

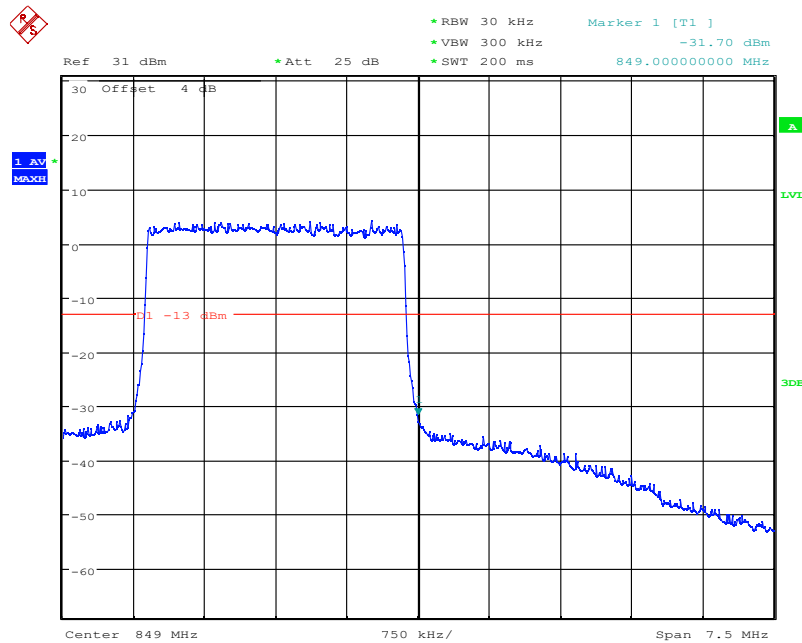
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Date: 2.SEP.2021 13:38:40

LTE Band5, 3MHz bandwidth, 16QAM,(1,15) Mode, Above 849MHz



Date: 2.SEP.2021 13:38:53

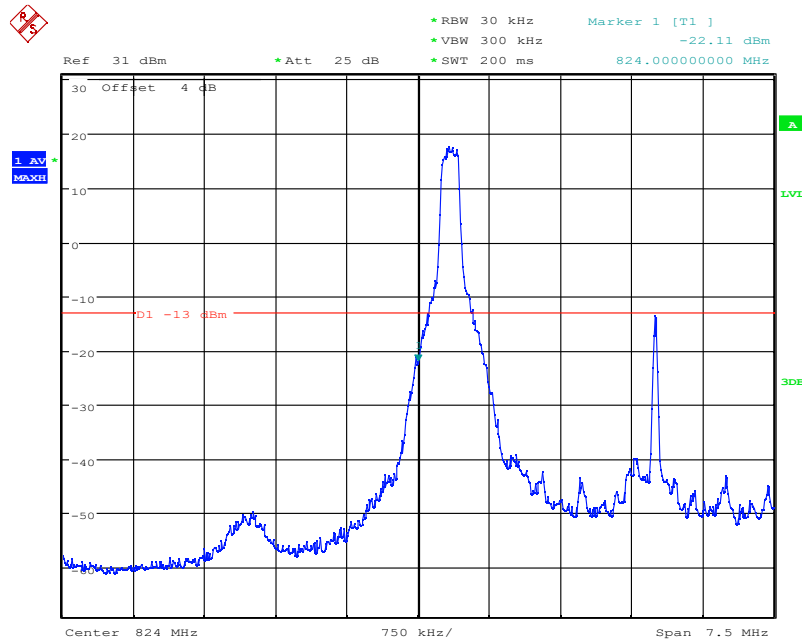
LTE Band5, 3MHz bandwidth, 16QAM,(15,0) Mode, Above 849MHz

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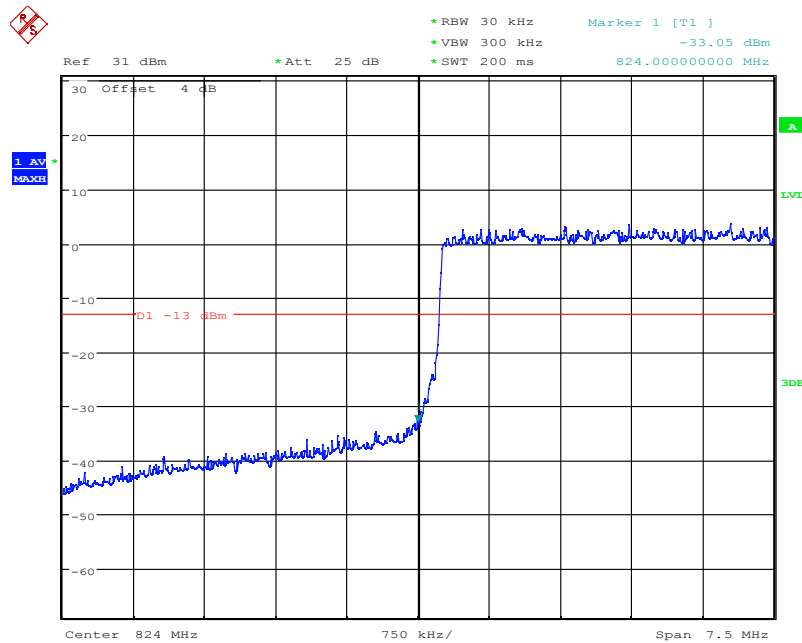


Report No.: I21W00032-WWAN\_Rev2



Date: 2.SEP.2021 13:41:24

LTE Band5, 5MHz bandwidth, QPSK,(1,0) Mode , Below 824MHz

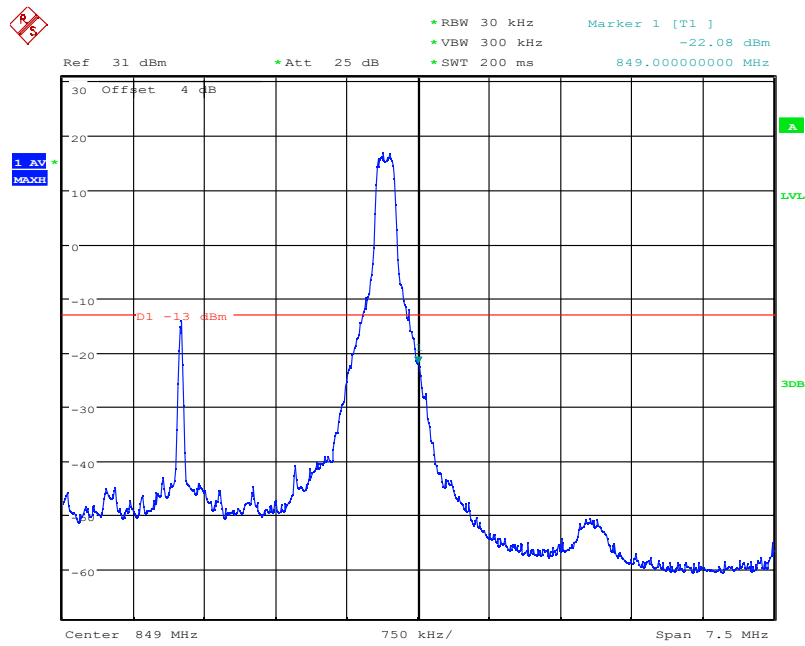


Date: 2.SEP.2021 13:41:13

LTE Band5, 5MHz bandwidth, QPSK,(25,0) Mode , Below 824MHz

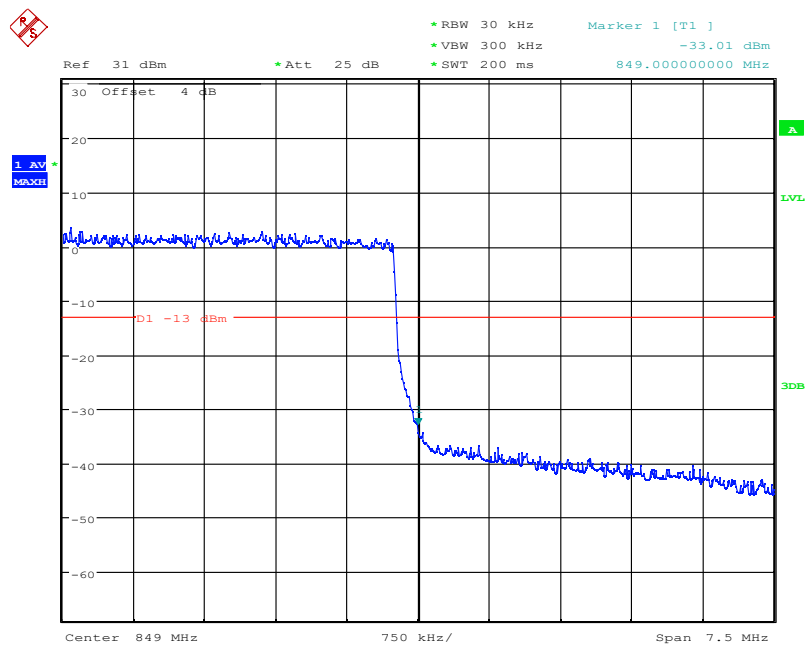
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Date: 2.SEP.2021 13:39:47

LTE Band5, 5MHz bandwidth, QPSK,(1,25) Mode, Above 849MHz



Date: 2.SEP.2021 13:39:58

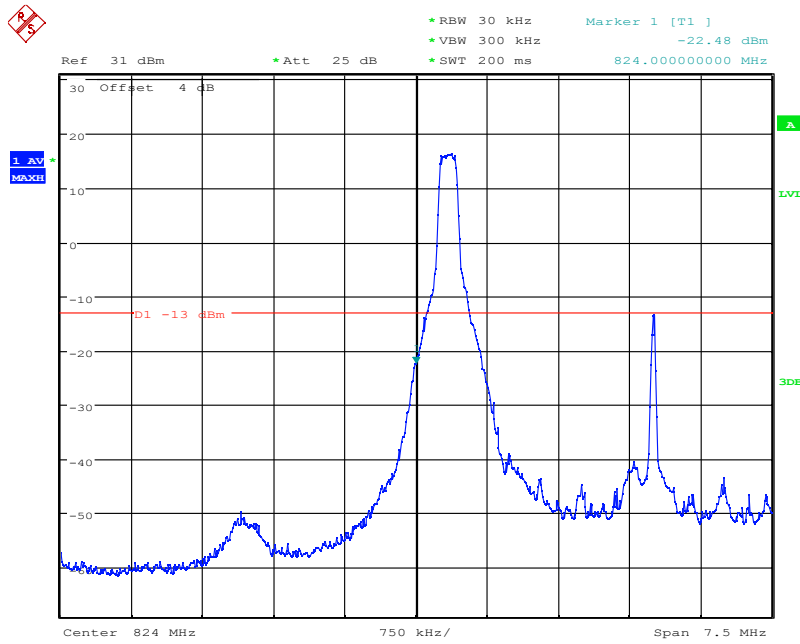
LTE Band5, 5MHz bandwidth, QPSK,(25,0) Mode, Above 849MHz

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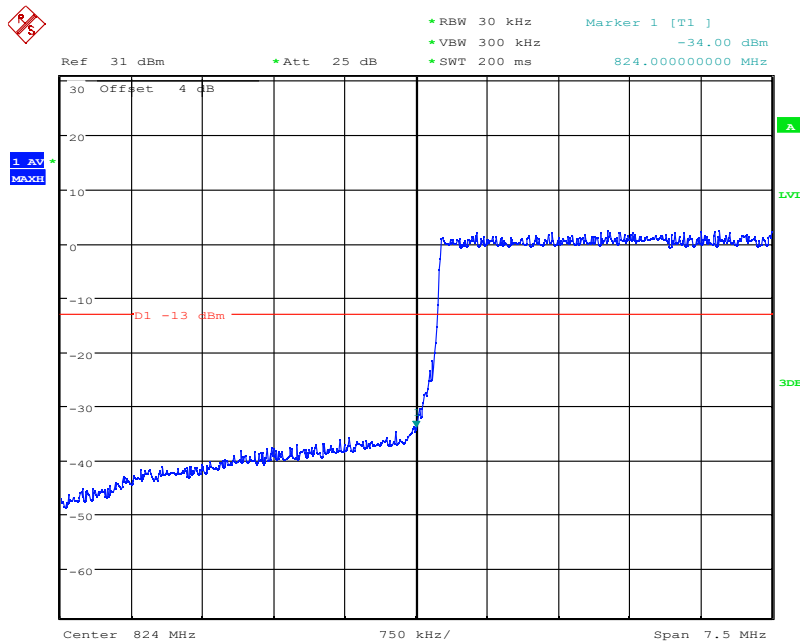


Report No.: I21W00032-WWAN\_Rev2



Date: 2.SEP.2021 13:40:52

LTE Band5, 5MHz bandwidth, 16QAM,(1,0) Mode , Below 824MHz

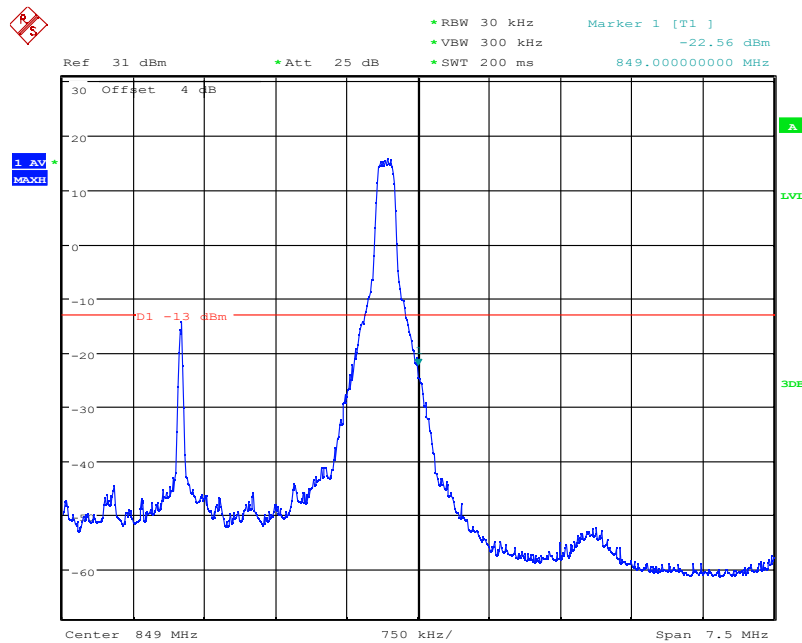


Date: 2.SEP.2021 13:41:03

LTE Band5, 5MHz bandwidth, 16QAM,(25,0) Mode , Below 824MHz

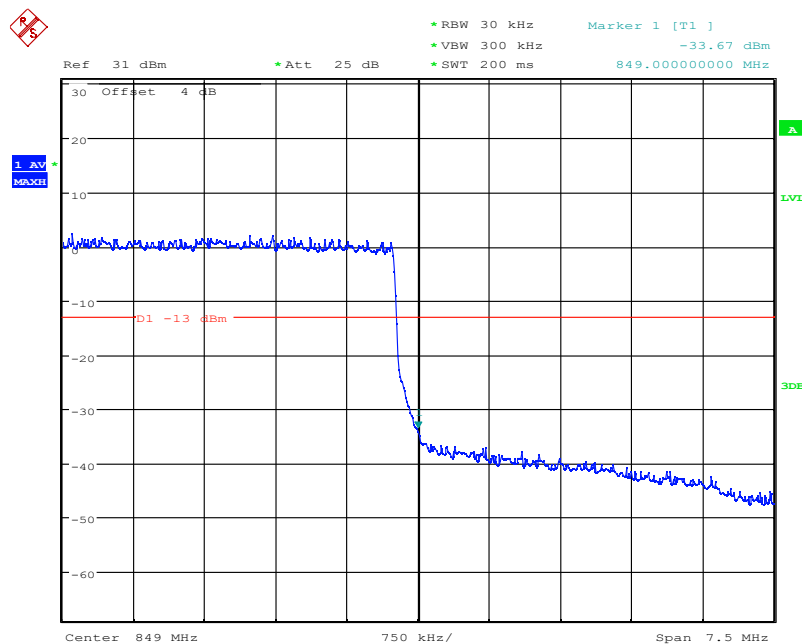
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Date: 2.SEP.2021 13:40:21

LTE Band5, 5MHz bandwidth, 16QAM,(1,25) Mode, Above 849MHz



Date: 2.SEP.2021 13:40:09

LTE Band5, 5MHz bandwidth, 16QAM,(25,0) Mode, Above 849MHz

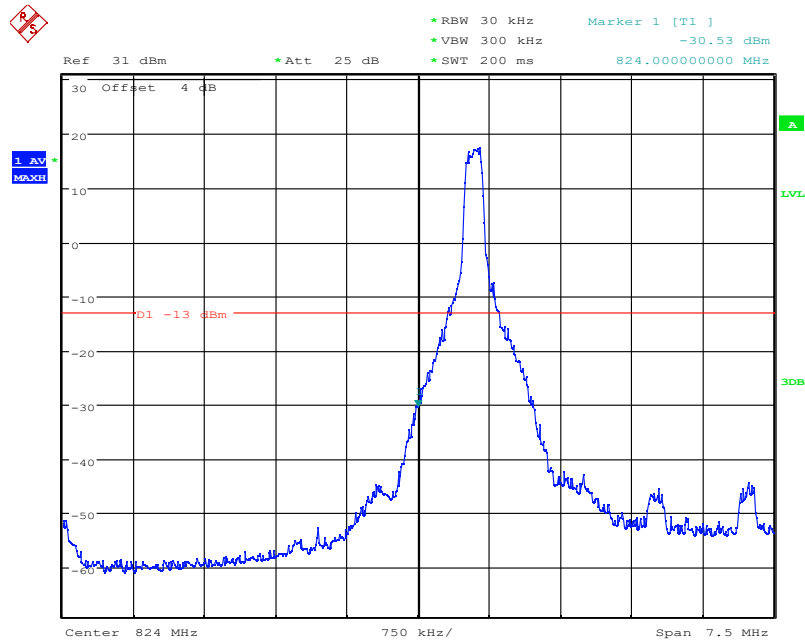
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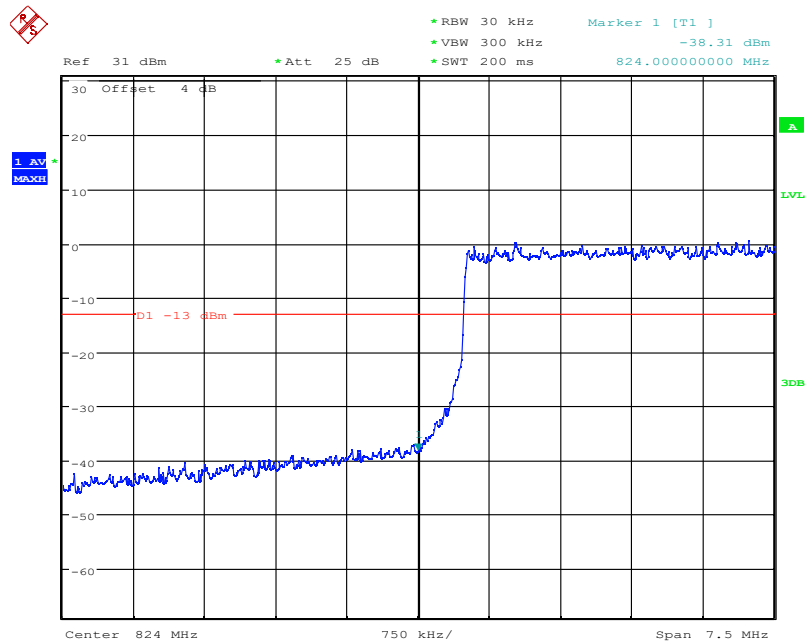


Report No.: I21W00032-WWAN\_Rev2



Date: 2.SEP.2021 13:42:36

LTE Band5, 10MHz bandwidth, QPSK,(1,0) Mode , Below 824MHz



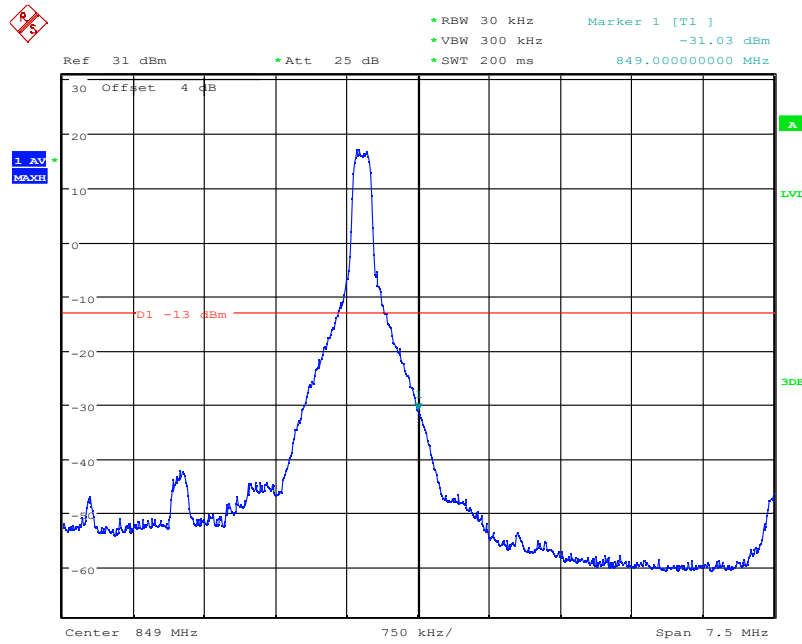
Date: 2.SEP.2021 13:42:23

LTE Band5, 10MHz bandwidth, QPSK,(50,0) Mode , Below 824MHz

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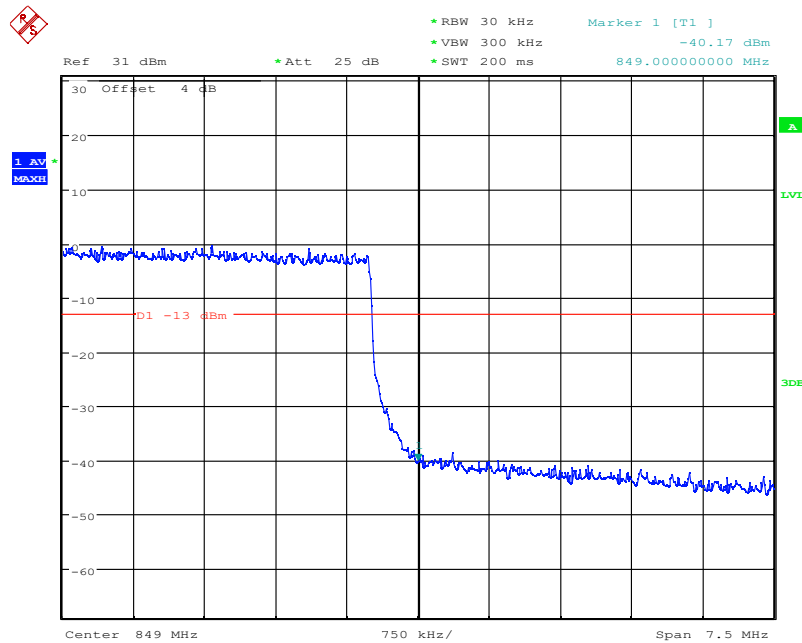
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FAX:0086-23-88608777



Date: 2.SEP.2021 13:43:56

LTE Band5, 10MHz bandwidth, QPSK,(1,50) Mode, Above 849MHz

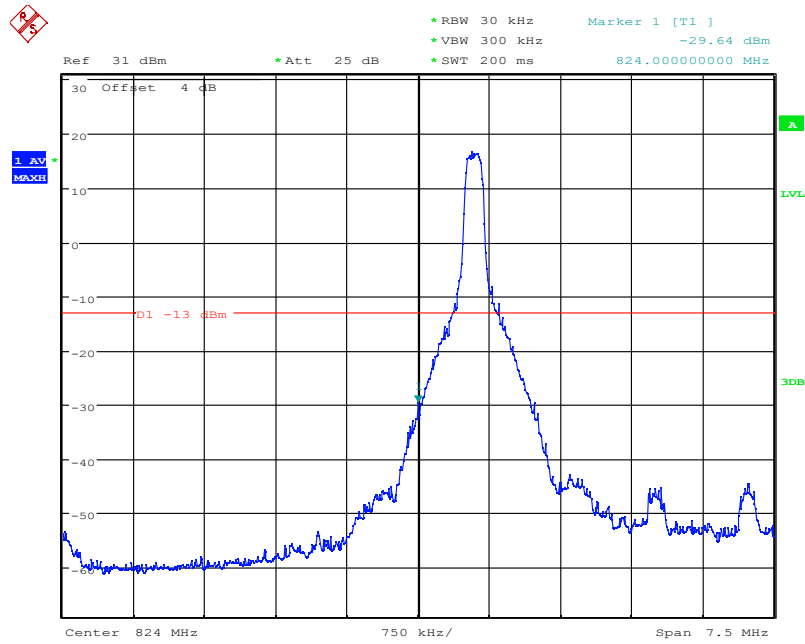


Date: 2.SEP.2021 13:44:05

LTE Band5, 10MHz bandwidth, QPSK,(50,0) Mode, Above 849MHz

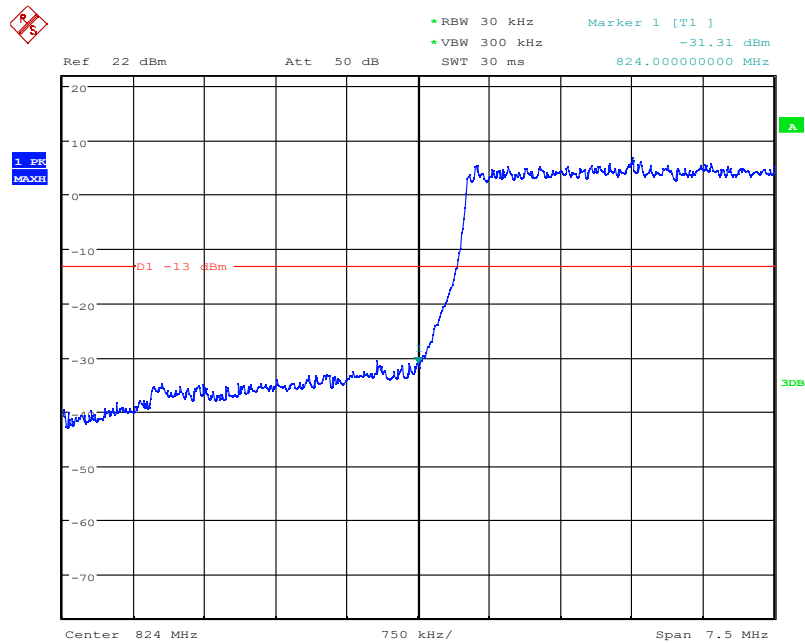
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Date: 2.SEP.2021 13:42:49

LTE Band5, 10MHz bandwidth, 16QAM,(1,0) Mode , Below 824MHz



Date: 8.SEP.2021 20:48:57

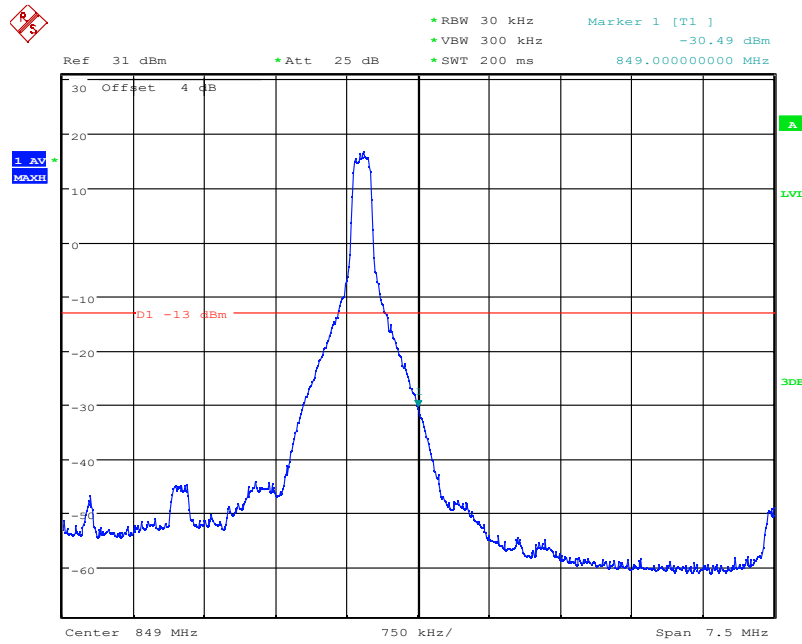
LTE Band5, 10MHz bandwidth, 16QAM,(27,0) Mode , Below 824MHz

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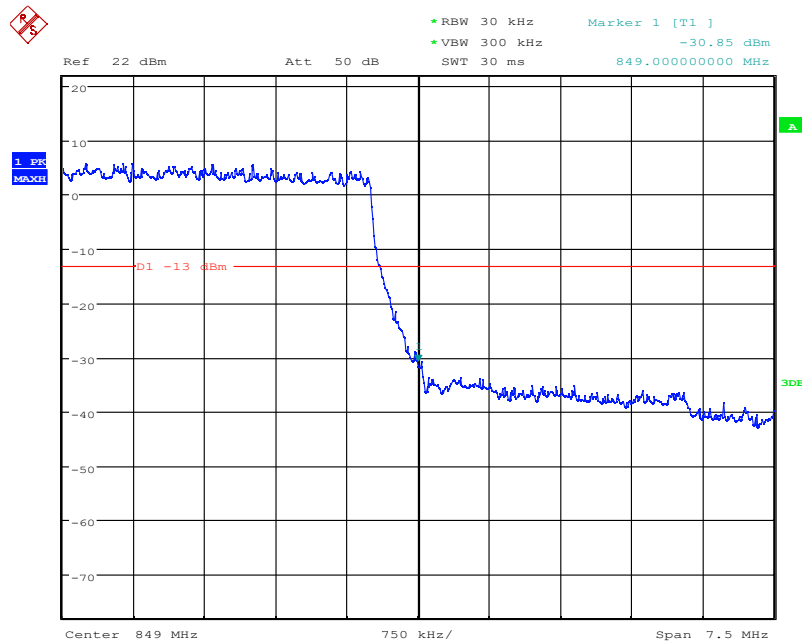


Report No.: I21W00032-WWAN\_Rev2



Date: 2.SEP.2021 13:43:41

LTE Band5, 10MHz bandwidth, 16QAM,(1,50) Mode, Above 849MHz



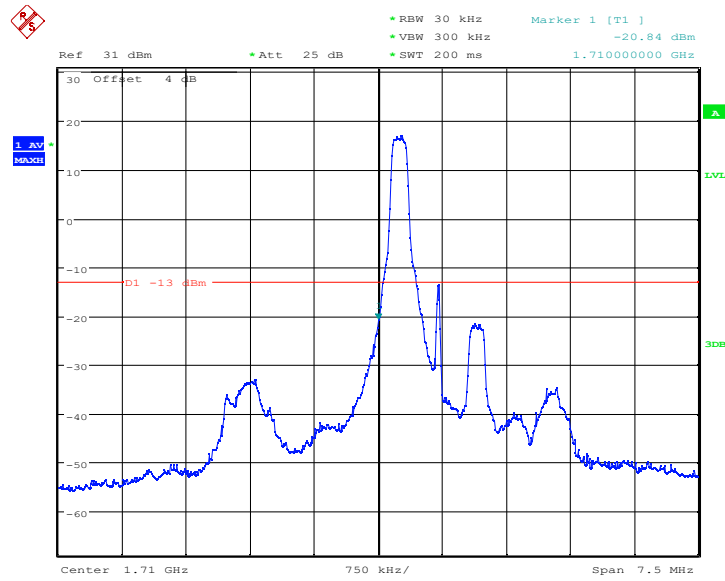
Date: 8.SEP.2021 20:49:30

LTE Band5, 10MHz bandwidth, 16QAM,(27,0) Mode, Above 849MHz

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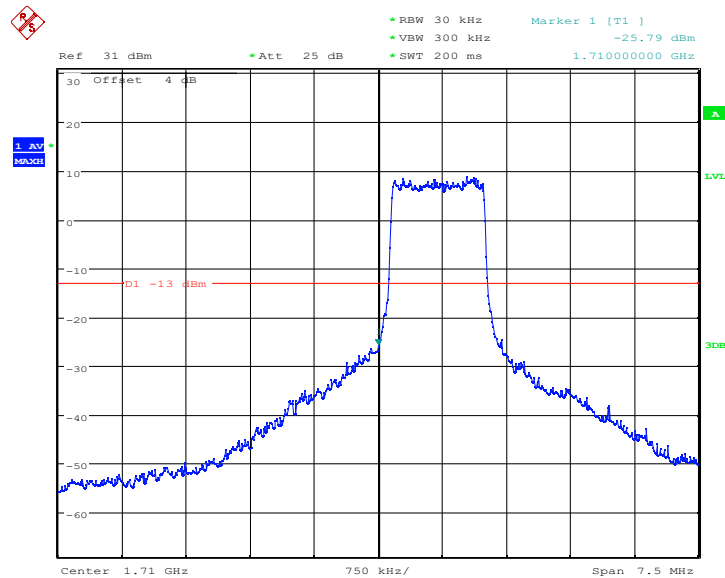
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### 6.7.6 LTE B66 Band Edge Results



Date: 2.SEP.2021 13:50:17

LTE Band66, 1.4MHz bandwidth, QPSK,(1,0) Mode , Below 1710MHz



Date: 2.SEP.2021 13:50:32

LTE Band66, 1.4MHz bandwidth, QPSK,(6,0) Mode , Below 1710MHz

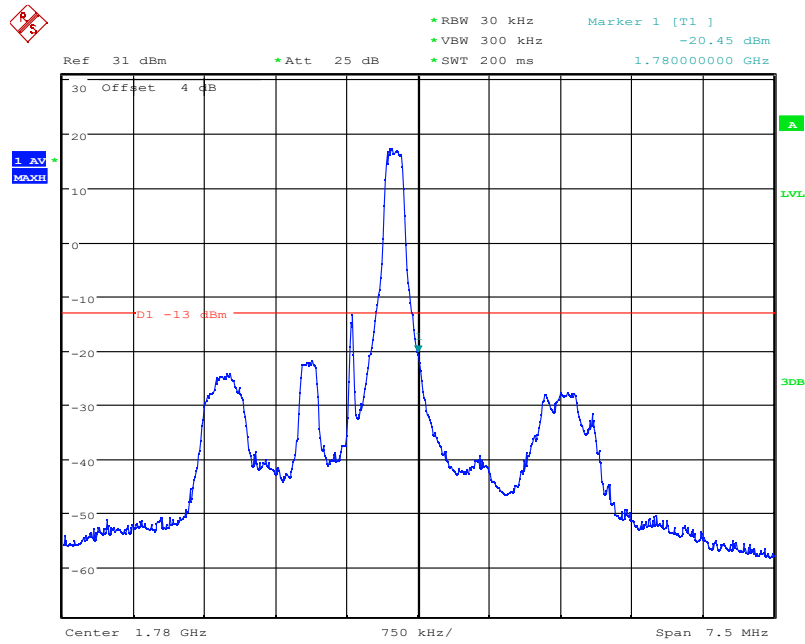
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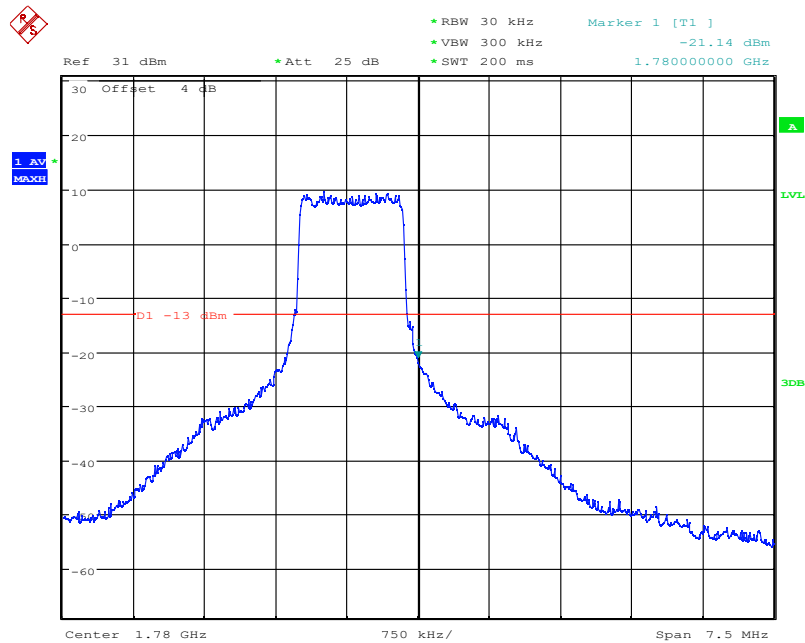


Report No.: I21W00032-WWAN\_Rev2



Date: 2.SEP.2021 13:52:17

LTE Band66, 1.4MHz bandwidth, QPSK,(1,6) Mode, Above 1780MHz

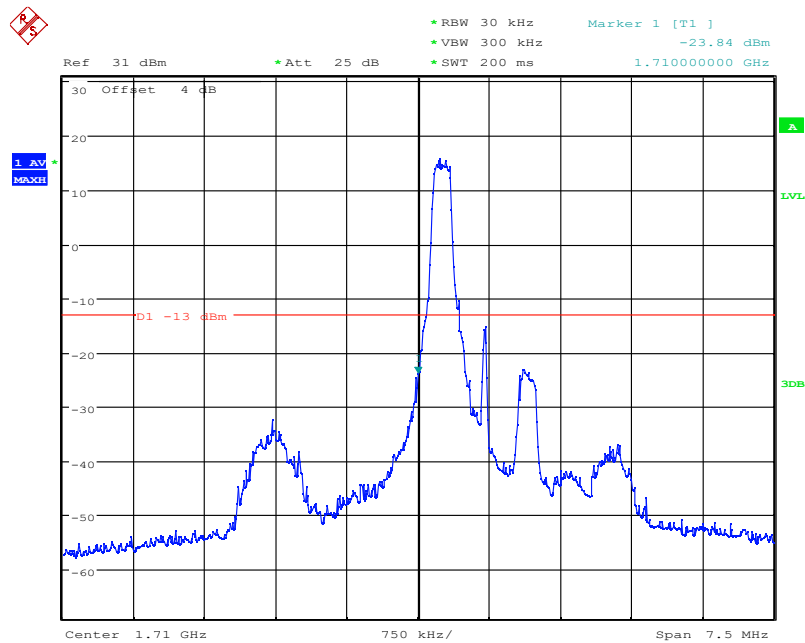


Date: 2.SEP.2021 13:51:58

LTE Band66, 1.4MHz bandwidth, QPSK,(6,0) Mode, Above 1780MHz

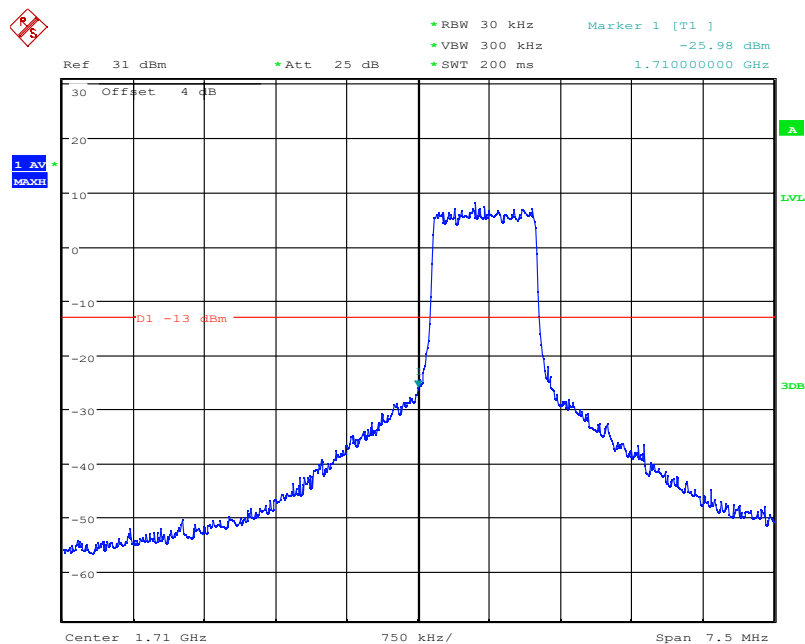
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Date: 2.SEP.2021 13:50:53

LTE Band66, 1.4MHz bandwidth, 16QAM,(1,0) Mode , Below 1710MHz



Date: 2.SEP.2021 13:50:43

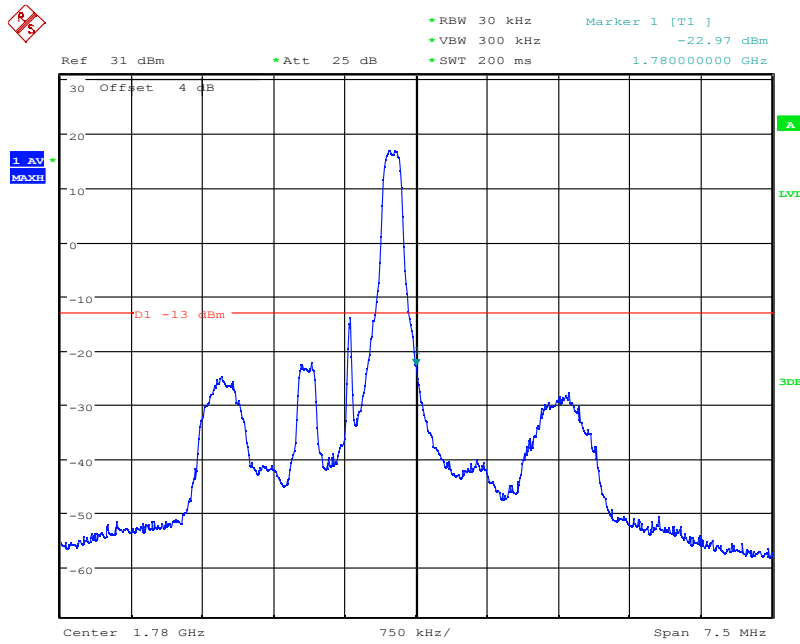
LTE Band66, 1.4MHz bandwidth, 16QAM,(6,0) Mode , Below 1710MHz

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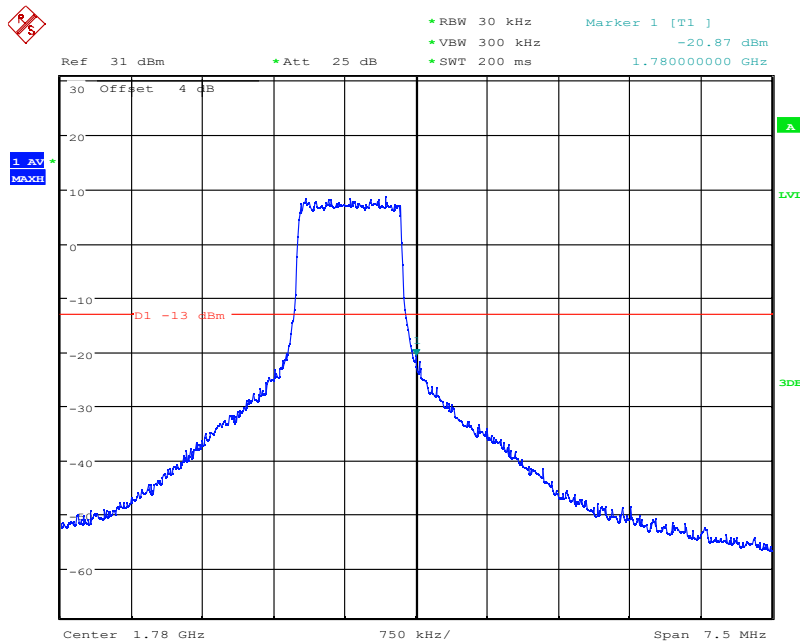


Report No.: I21W00032-WWAN\_Rev2



Date: 2.SEP.2021 13:51:35

LTE Band66, 1.4MHz bandwidth, 16QAM,(1,6) Mode, Above 1780MHz



Date: 2.SEP.2021 13:51:46

LTE Band66, 1.4MHz bandwidth, 16QAM,(6,0) Mode, Above 1780MHz

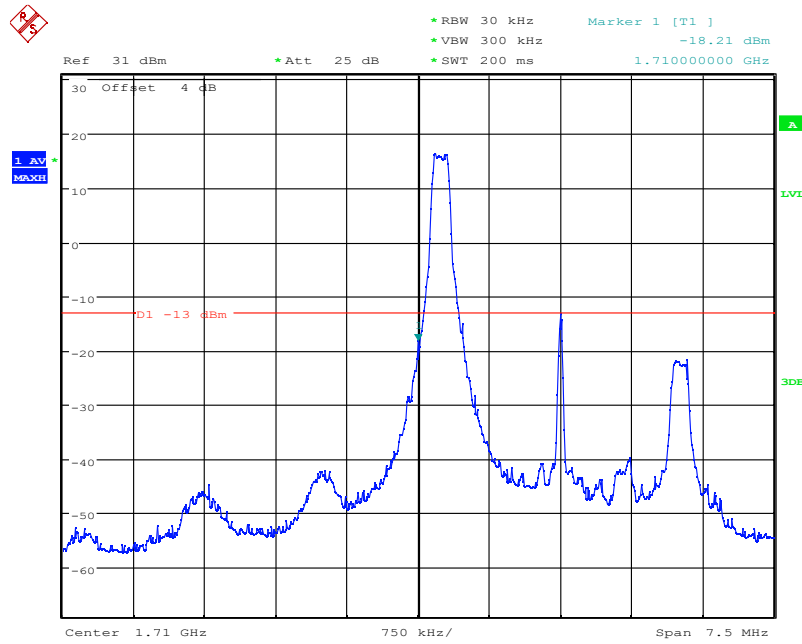
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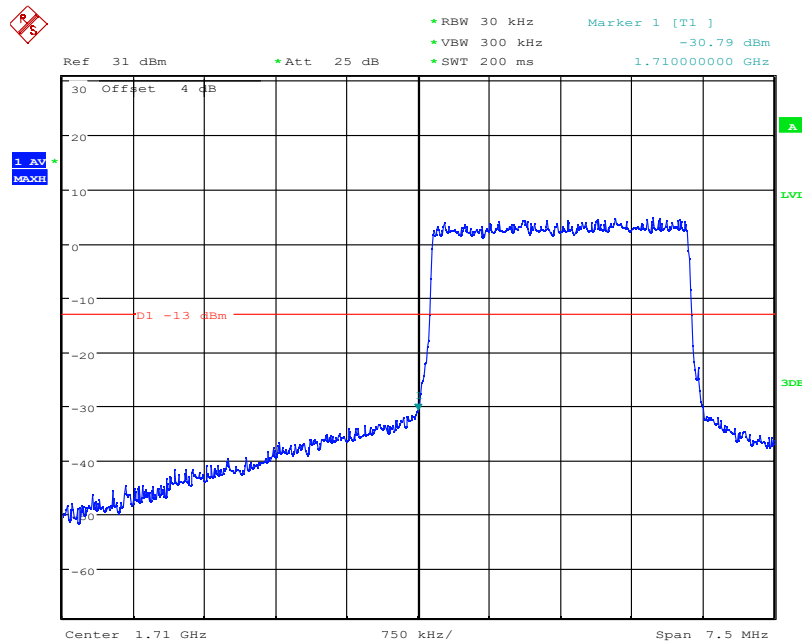


Report No.: I21W00032-WWAN\_Rev2



Date: 2.SEP.2021 13:53:09

LTE Band66, 3MHz bandwidth, QPSK,(1,0) Mode , Below 1710MHz

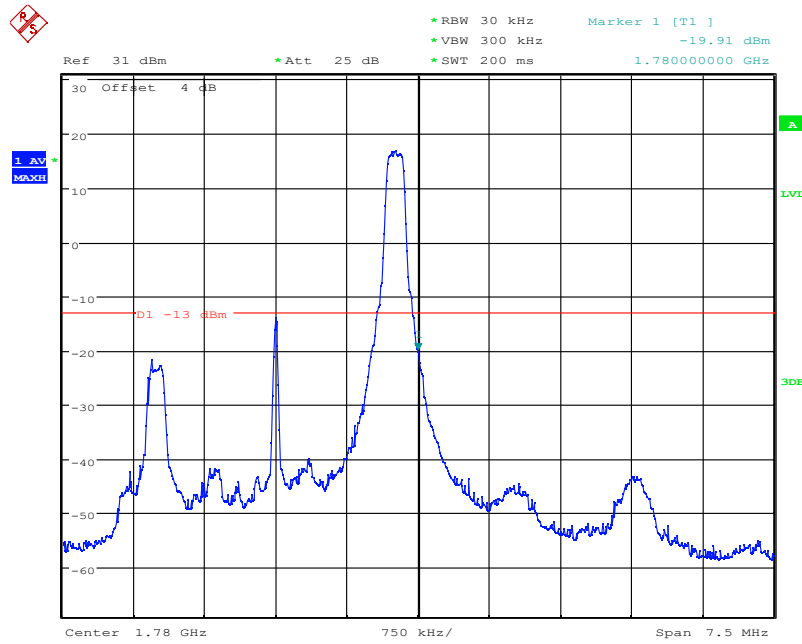


Date: 2.SEP.2021 13:53:19

LTE Band66, 3MHz bandwidth, QPSK,(15,0) Mode , Below 1710MHz

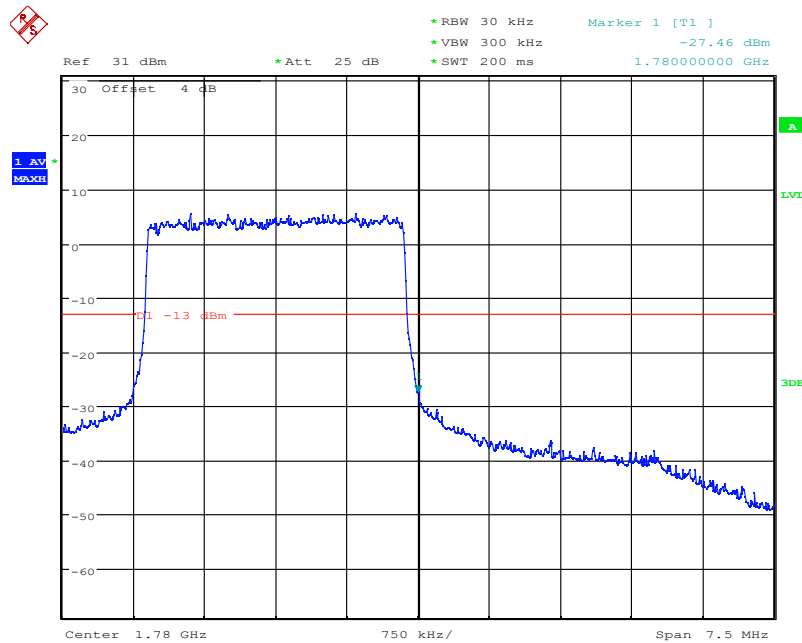
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Date: 2.SEP.2021 13:56:18

LTE Band66, 3MHz bandwidth, QPSK,(1,15) Mode, Above 1780MHz

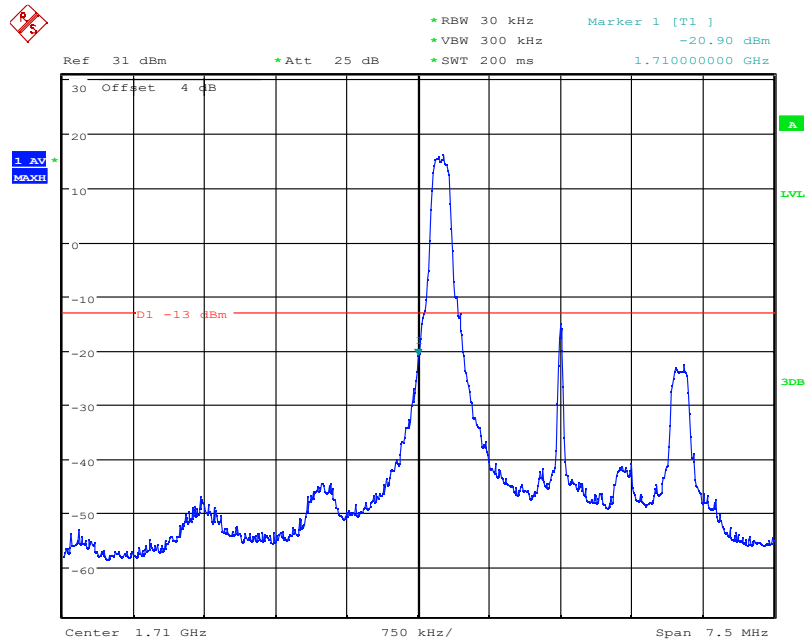


Date: 2.SEP.2021 13:55:36

LTE Band66, 3MHz bandwidth, QPSK,(15,0) Mode, Above 1780MHz

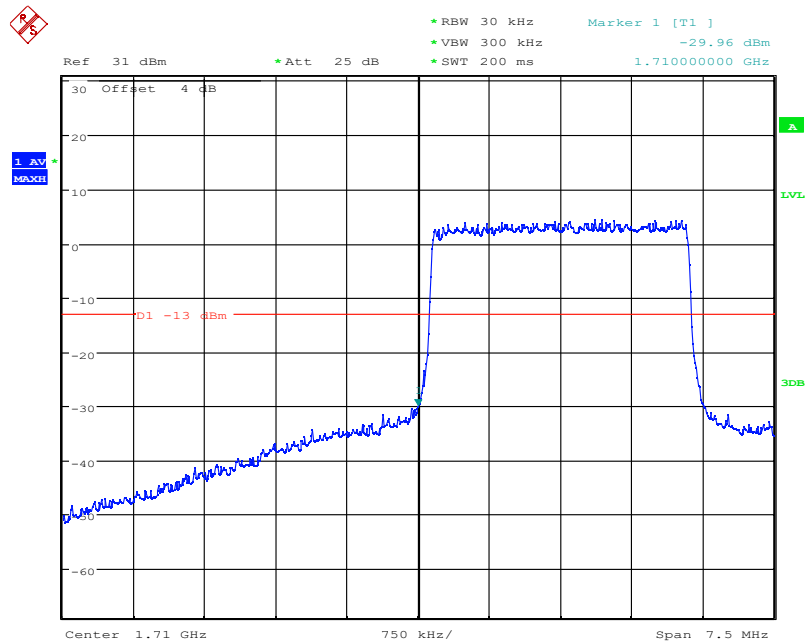
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Date: 2.SEP.2021 13:54:03

LTE Band66, 3MHz bandwidth, 16QAM,(1,0) Mode , Below 1710MHz

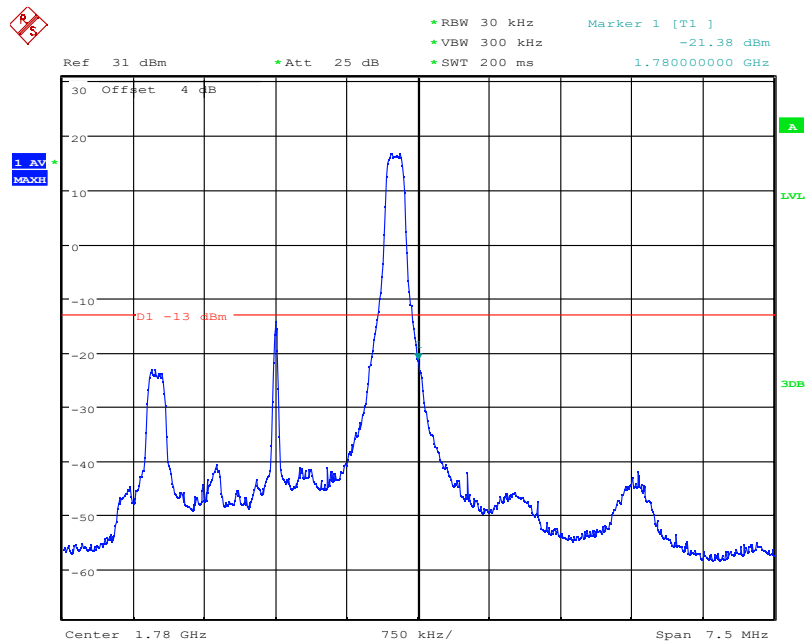


Date: 2.SEP.2021 13:53:53

LTE Band66, 3MHz bandwidth, 16QAM,(15,0) Mode , Below 1710MHz

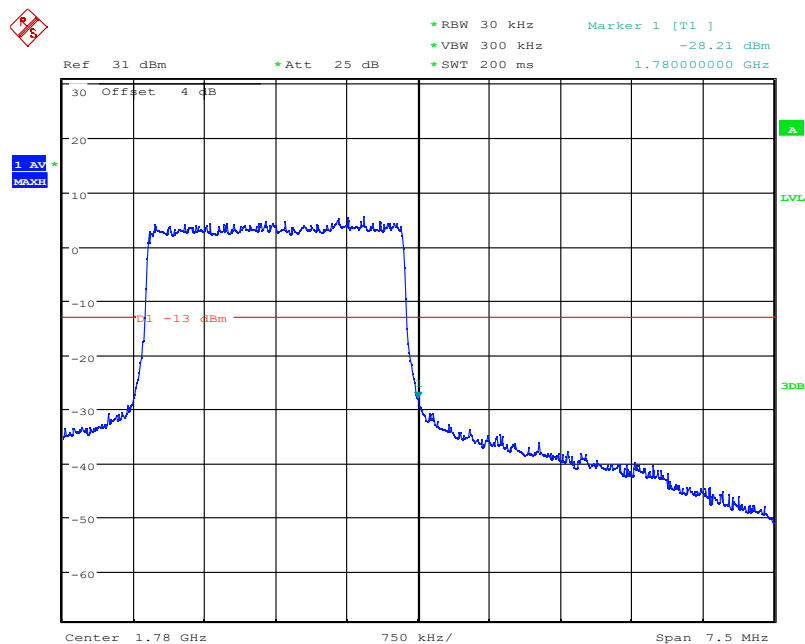
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Date: 2.SEP.2021 13:55:06

LTE Band66, 3MHz bandwidth, 16QAM,(1,15) Mode, Above 1780MHz

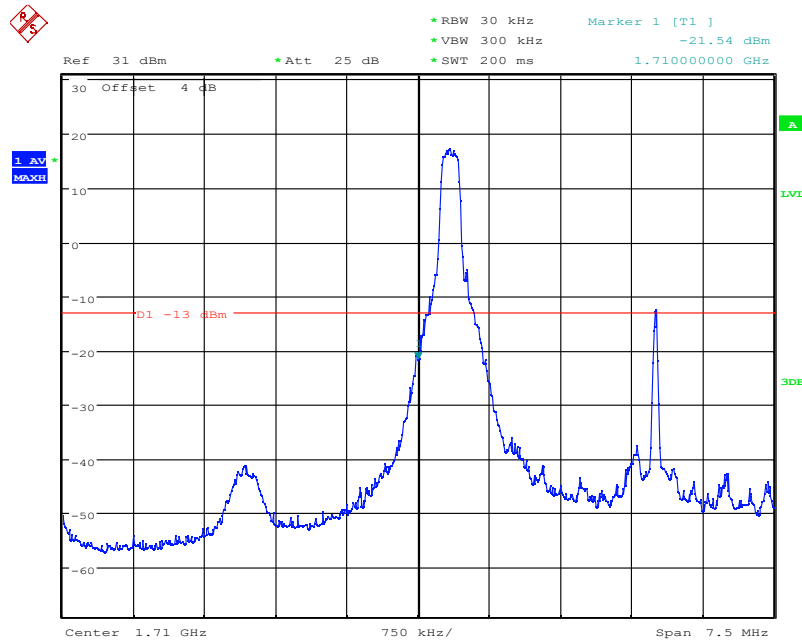


Date: 2.SEP.2021 13:55:23

LTE Band66, 3MHz bandwidth, 16QAM,(15,0) Mode, Above 1780MHz

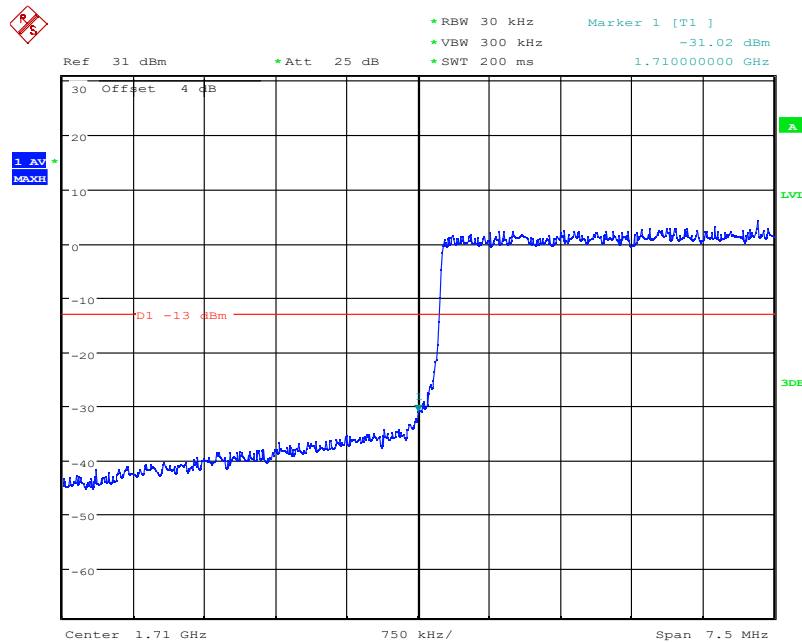
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Date: 2.SEP.2021 14:03:21

LTE Band66, 5MHz bandwidth, QPSK,(1,0) Mode , Below 1710MHz

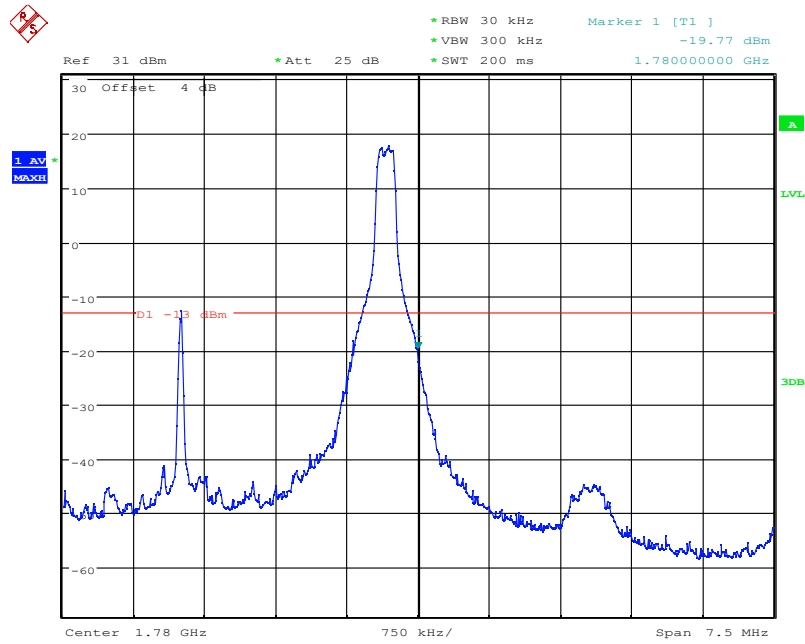


Date: 2.SEP.2021 14:03:33

LTE Band66, 5MHz bandwidth, QPSK,(25,0) Mode , Below 1710MHz

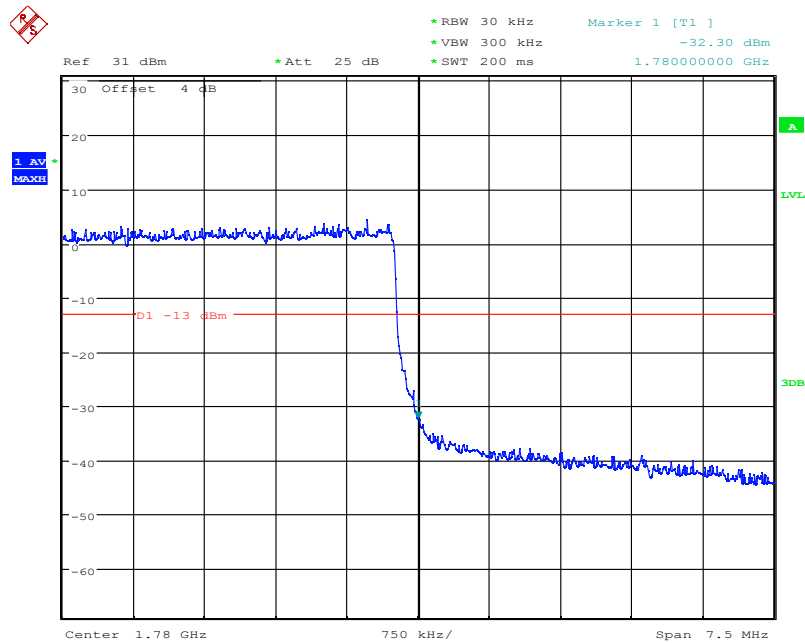
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Date: 2.SEP.2021 14:05:55

LTE Band66, 5MHz bandwidth, QPSK,(1,25) Mode, Above 1780MHz

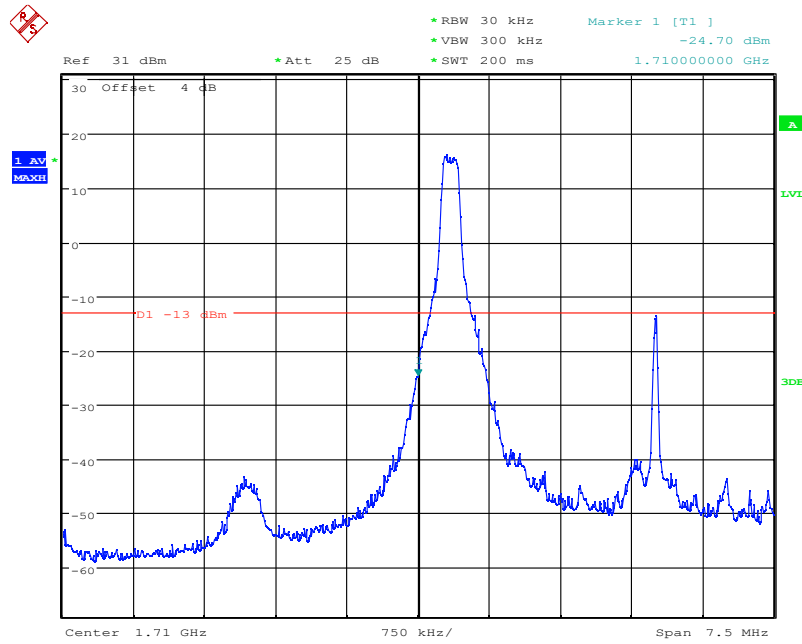


Date: 2.SEP.2021 14:05:40

LTE Band66, 5MHz bandwidth, QPSK,(25,0) Mode, Above 1780MHz

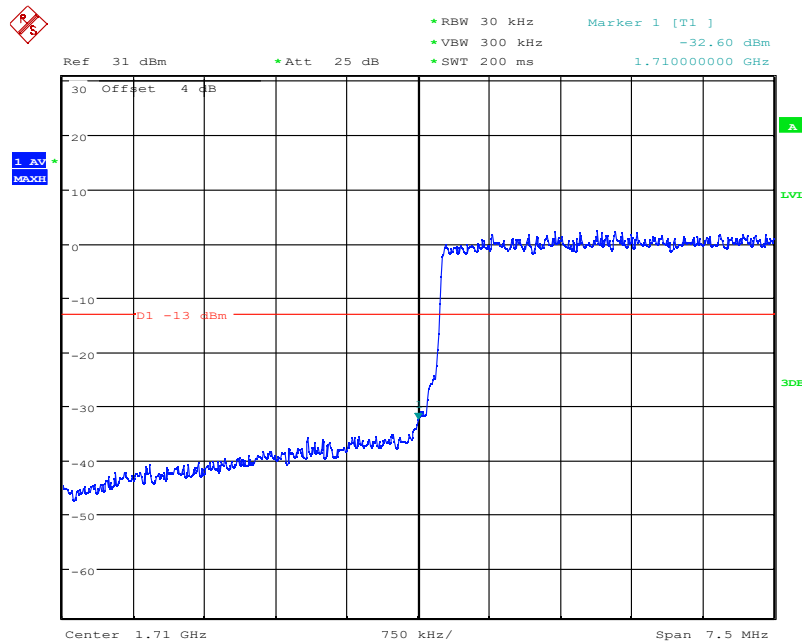
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Date: 2.SEP.2021 14:03:53

LTE Band66, 5MHz bandwidth, 16QAM,(1,0) Mode , Below 1710MHz

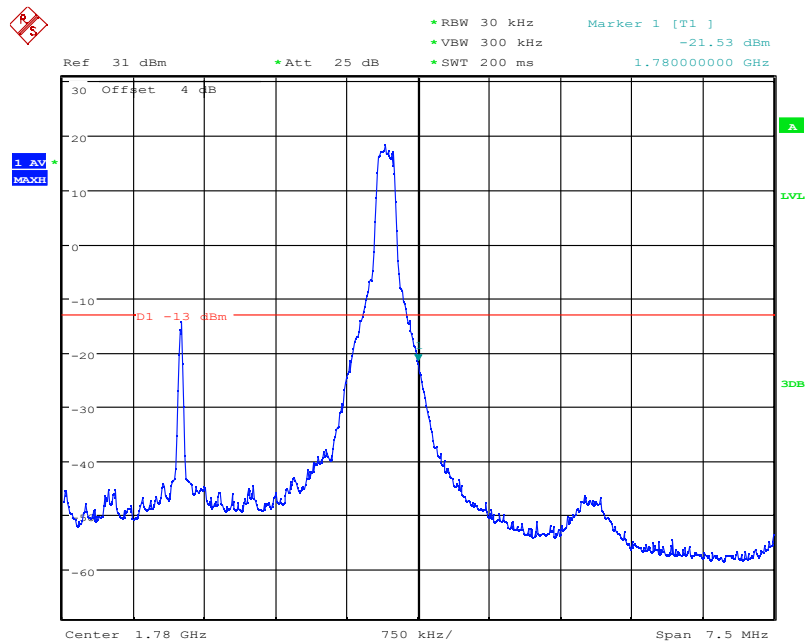


Date: 2.SEP.2021 14:03:42

LTE Band66, 5MHz bandwidth, 16QAM,(25,0) Mode , Below 1710MHz

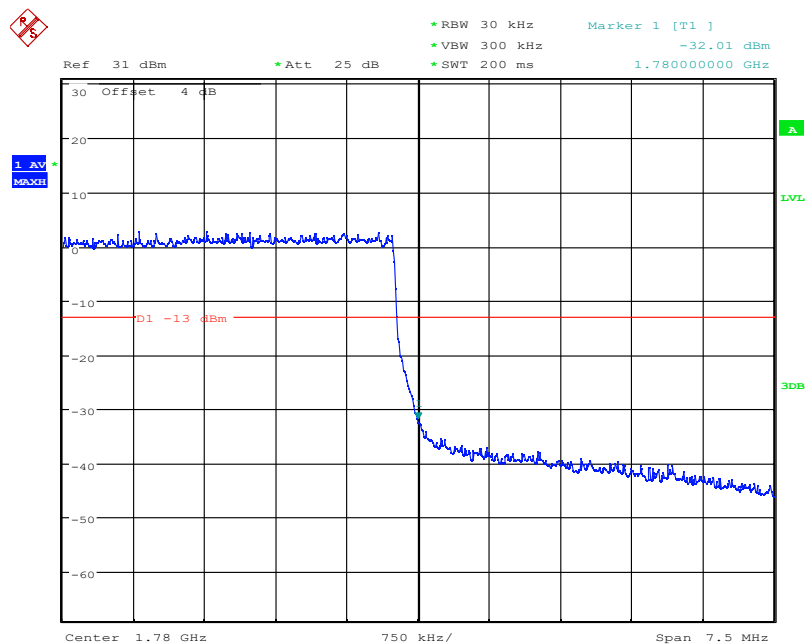
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Date: 2.SEP.2021 14:05:12

LTE Band66, 5MHz bandwidth, 16QAM,(1,25) Mode, Above 1780MHz



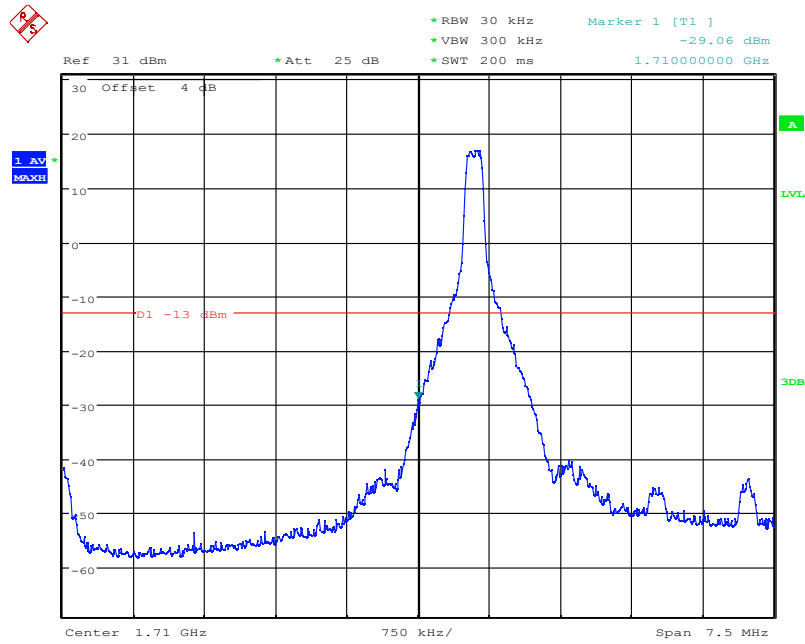
Date: 2.SEP.2021 14:05:28

LTE Band66, 5MHz bandwidth, 16QAM,(25,0) Mode, Above 1780MHz

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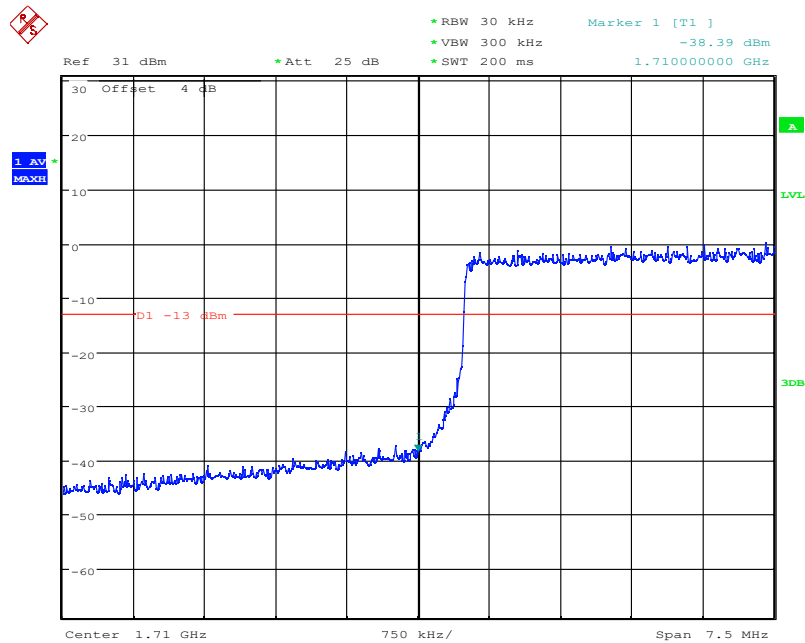
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Date: 2.SEP.2021 14:06:46

LTE Band66, 10MHz bandwidth, QPSK,(1,0) Mode , Below 1710MHz

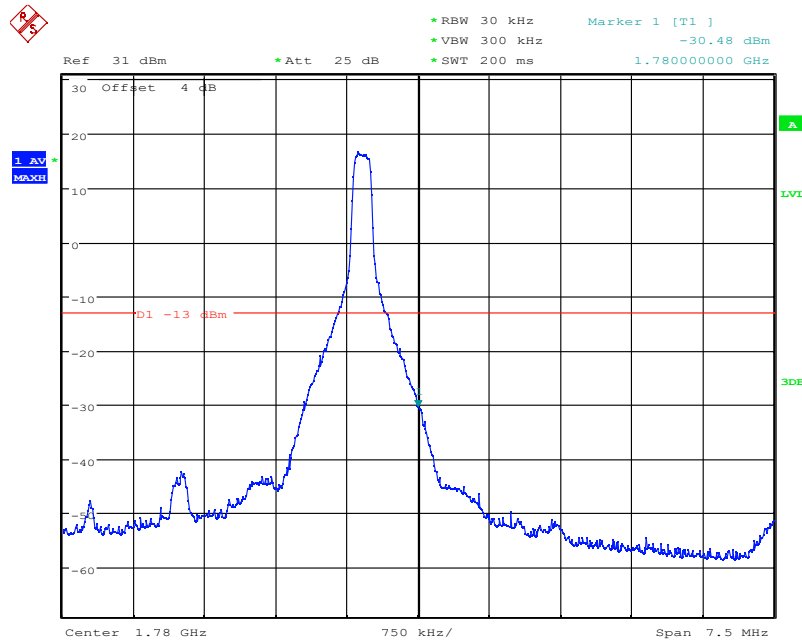


Date: 2.SEP.2021 14:06:56

LTE Band66, 10MHz bandwidth, QPSK,(50,0) Mode , Below 1710MHz

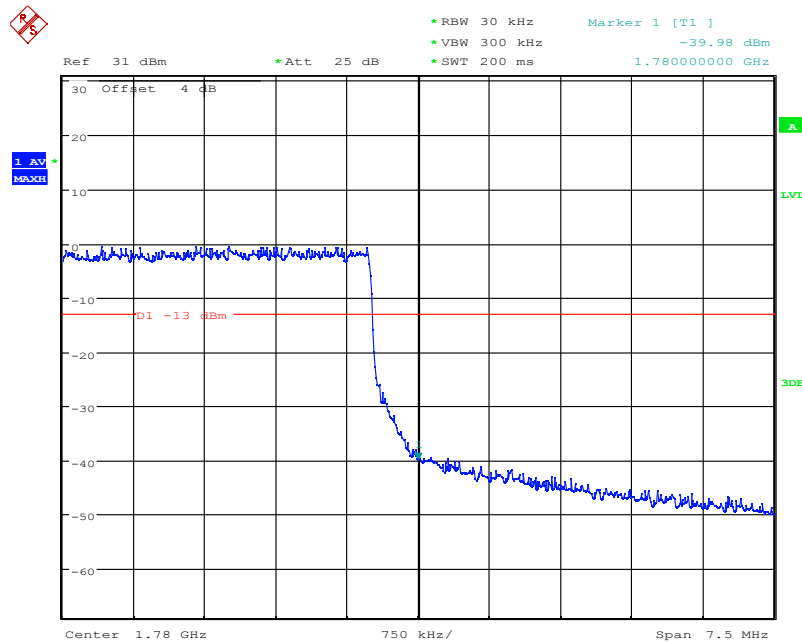
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Date: 2.SEP.2021 15:04:25

LTE Band66, 10MHz bandwidth, QPSK,(1,50) Mode, Above 1780MHz



Date: 2.SEP.2021 15:04:37

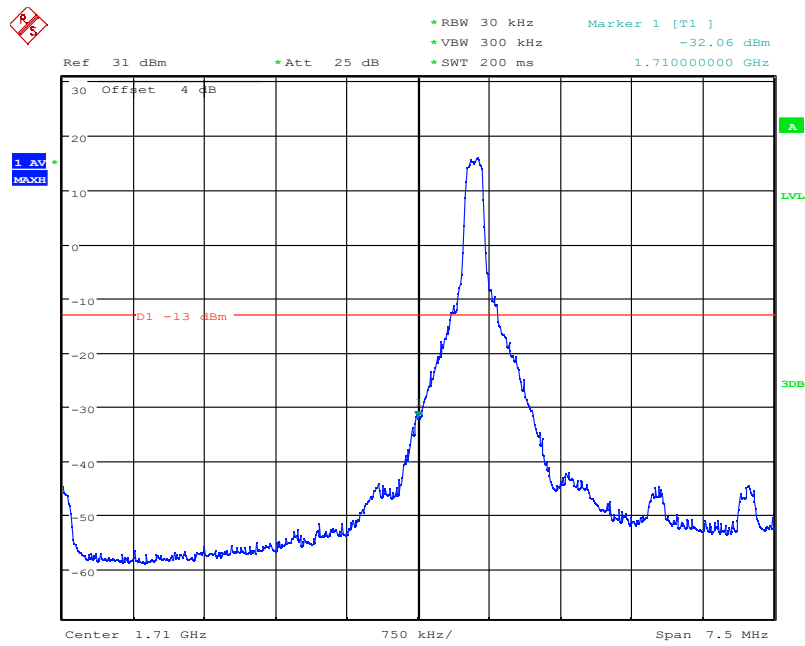
LTE Band66, 10MHz bandwidth, QPSK,(50,0) Mode, Above 1780MHz

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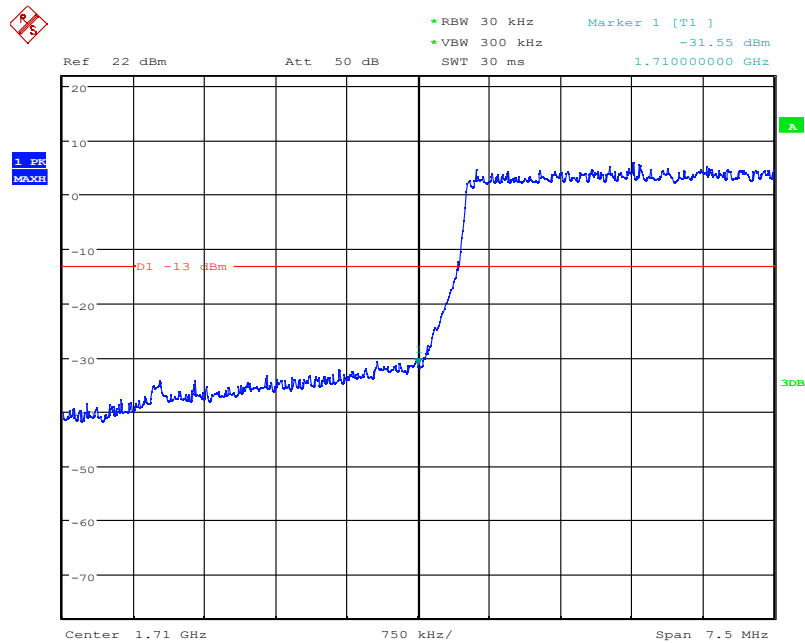


Report No.: I21W00032-WWAN\_Rev2



Date: 2.SEP.2021 15:03:41

LTE Band66, 10MHz bandwidth, 16QAM,(1,0) Mode , Below 1710MHz



Date: 8.SEP.2021 20:51:00

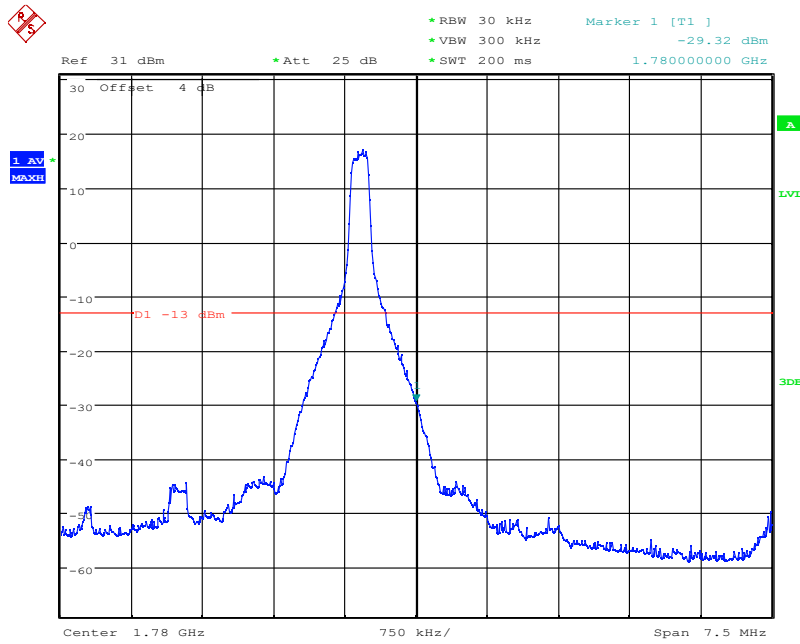
LTE Band66, 10MHz bandwidth, 16QAM,(27,0) Mode , Below 1710MHz

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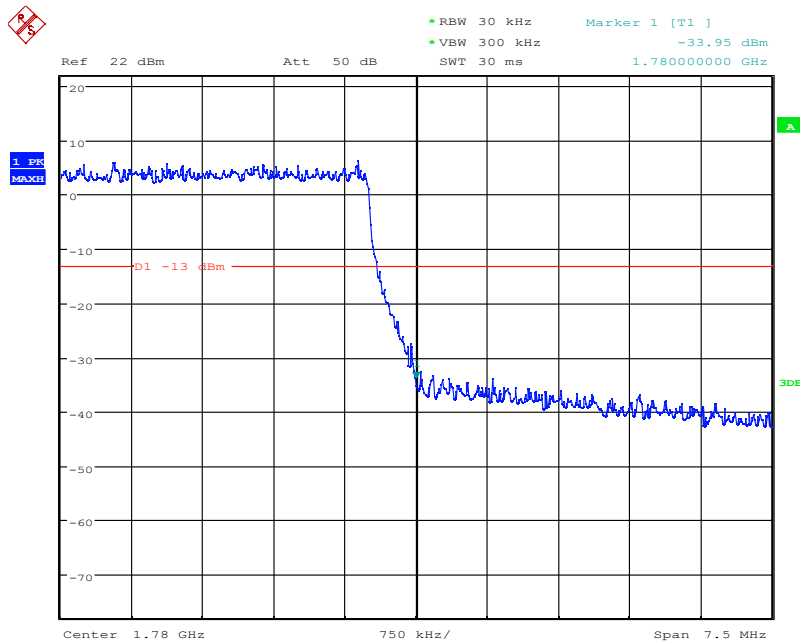


Report No.: I21W00032-WWAN\_Rev2



Date: 2.SEP.2021 15:04:13

LTE Band66, 10MHz bandwidth, 16QAM,(1,50) Mode, Above 1780MHz

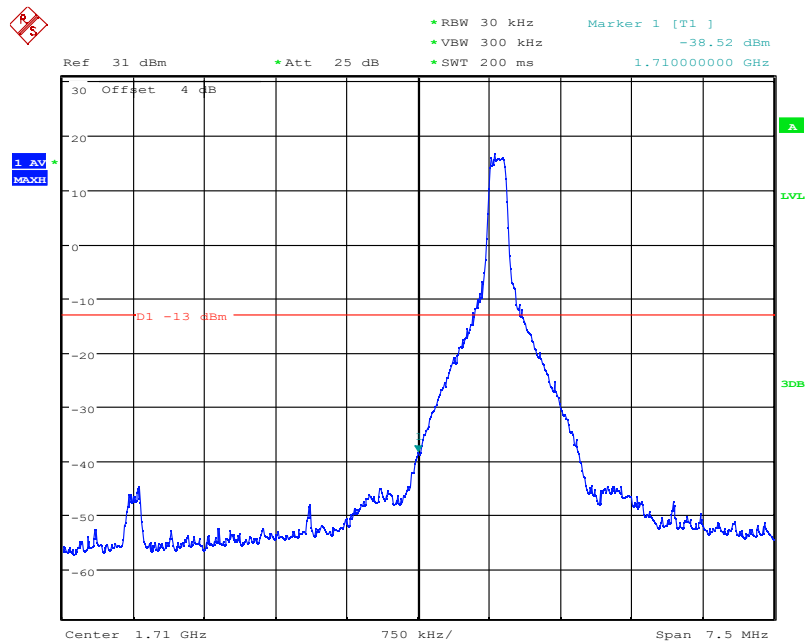


Date: 8.SEP.2021 20:51:52

LTE Band66, 10MHz bandwidth, 16QAM,(27,0) Mode, Above 1780MHz

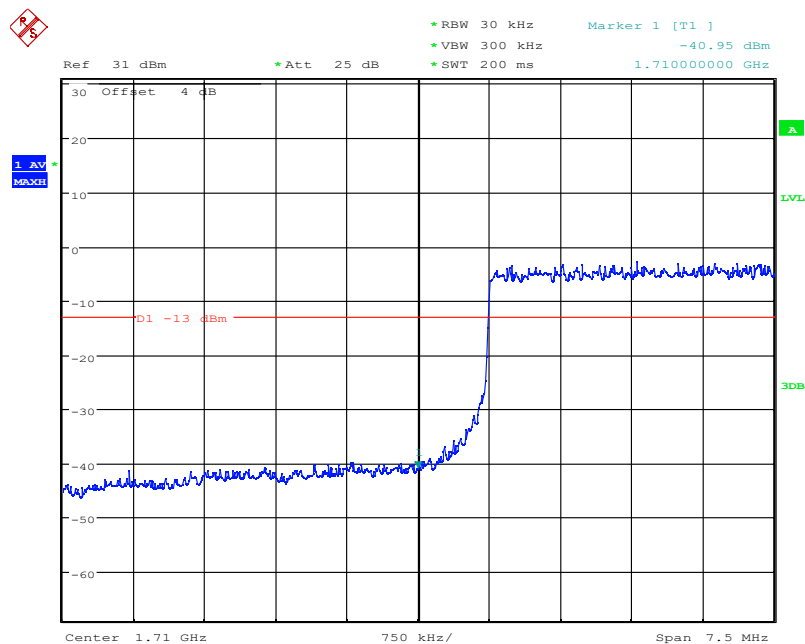
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Date: 2.SEP.2021 15:05:28

LTE Band66, 15MHz bandwidth, QPSK,(1,0) Mode , Below 1710MHz

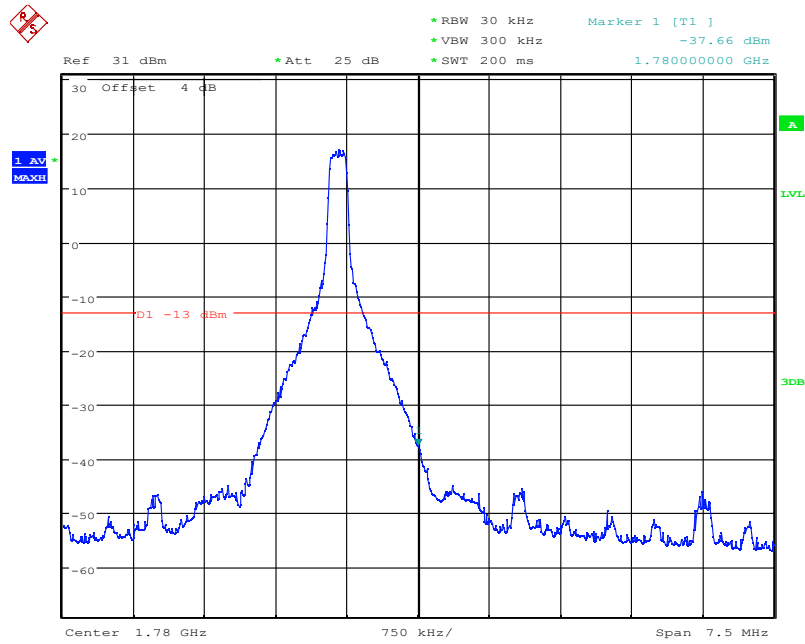


Date: 2.SEP.2021 15:05:40

LTE Band66, 15MHz bandwidth, QPSK,(75,0) Mode , Below 1710MHz

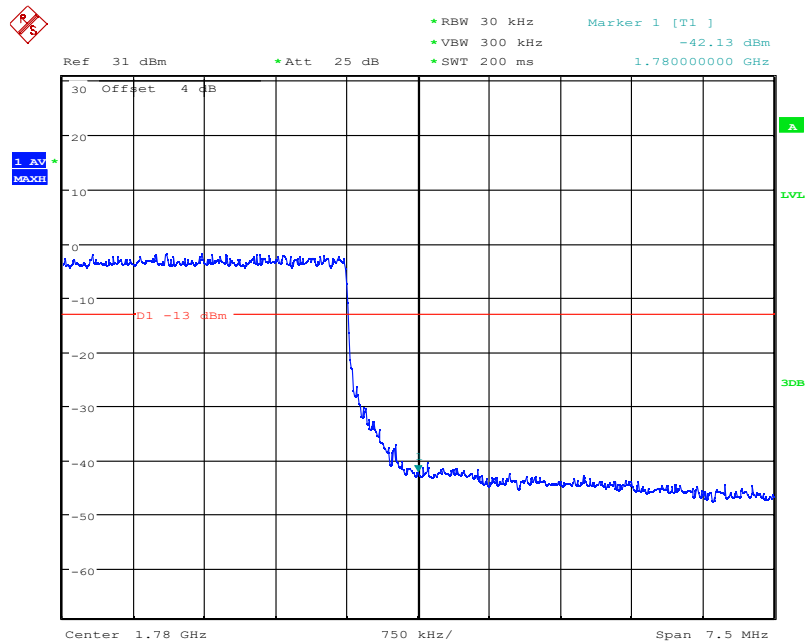
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Date: 2.SEP.2021 15:06:51

LTE Band66, 15MHz bandwidth, QPSK,(1,75) Mode, Above 1780MHz



Date: 2.SEP.2021 15:07:05

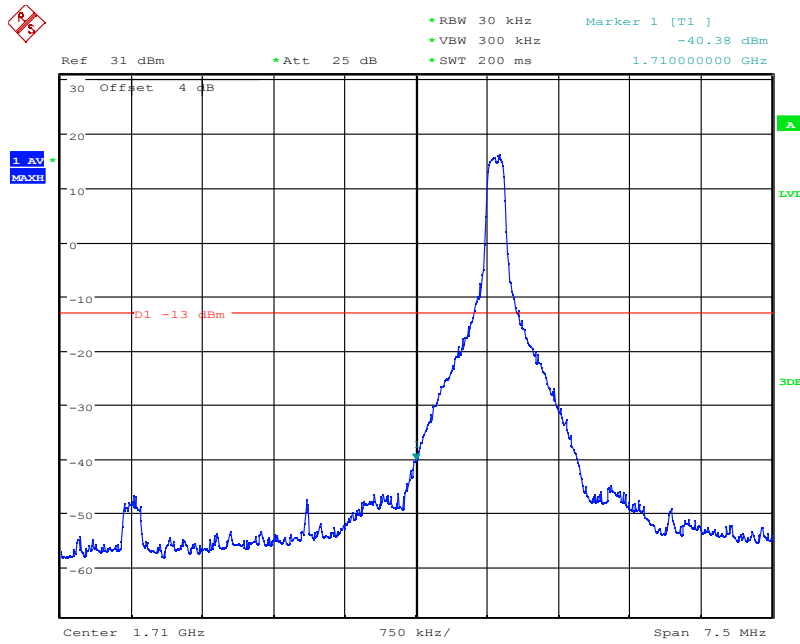
LTE Band66, 15MHz bandwidth, QPSK,(75,0) Mode, Above 1780MHz

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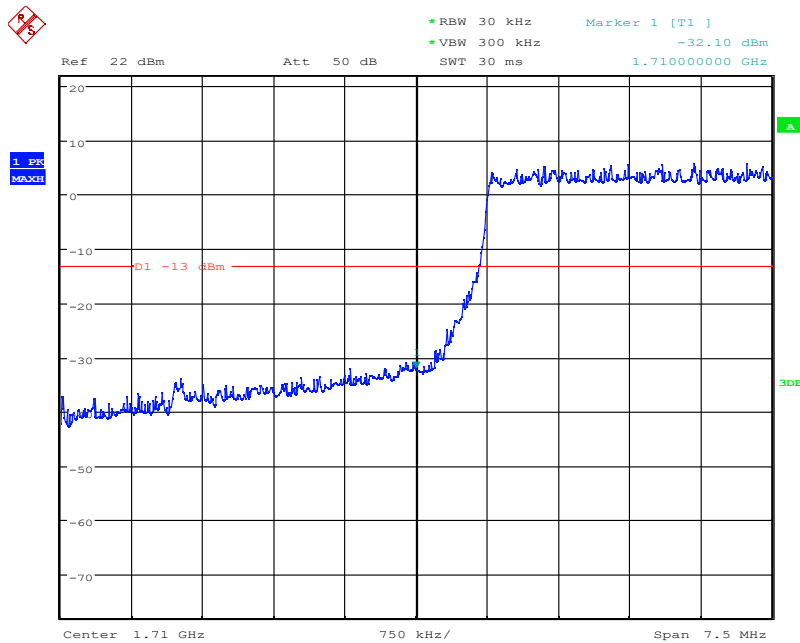


Report No.: I21W00032-WWAN\_Rev2



Date: 2.SEP.2021 15:06:03

LTE Band66, 15MHz bandwidth, 16QAM,(1,0) Mode , Below 1710MHz



Date: 8.SEP.2021 20:52:51

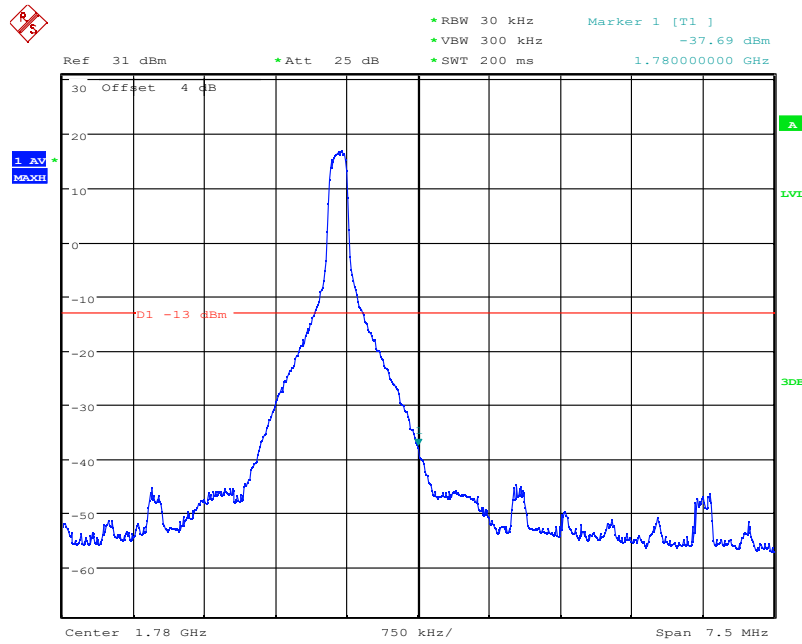
LTE Band66, 15MHz bandwidth, 16QAM,(27,0) Mode , Below 1710MHz

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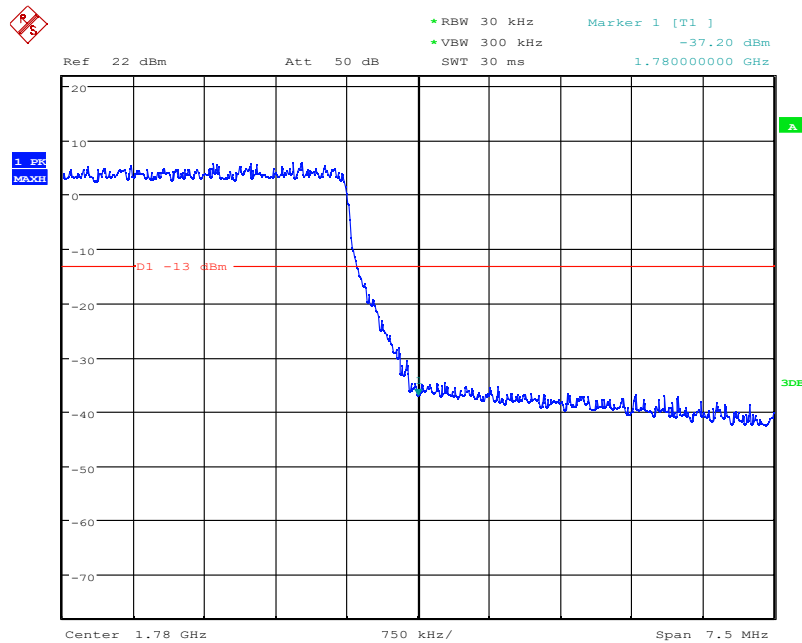


Report No.: I21W00032-WWAN\_Rev2



Date: 2.SEP.2021 15:06:35

LTE Band66, 15MHz bandwidth, 16QAM,(1,75) Mode, Above 1780MHz



Date: 8.SEP.2021 20:52:29

LTE Band66, 15MHz bandwidth, 16QAM,(27,0) Mode, Above 1780MHz

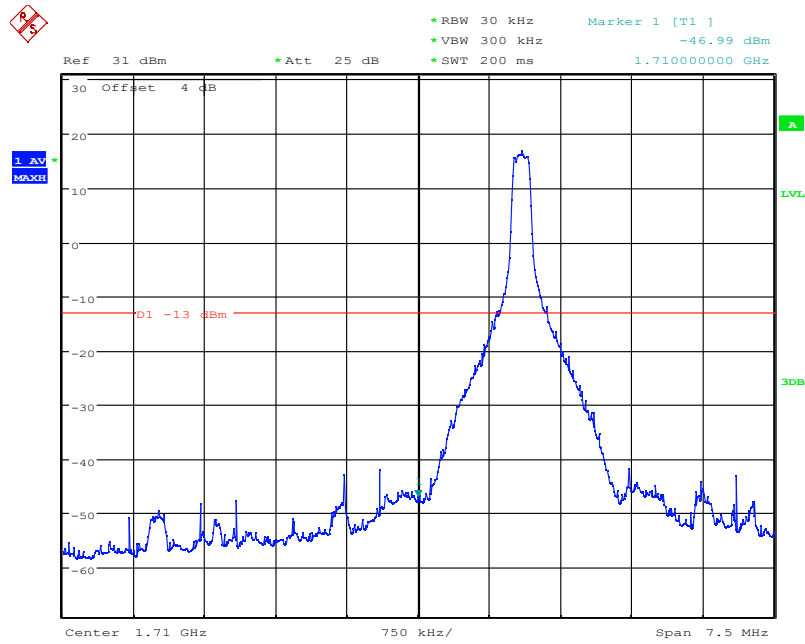
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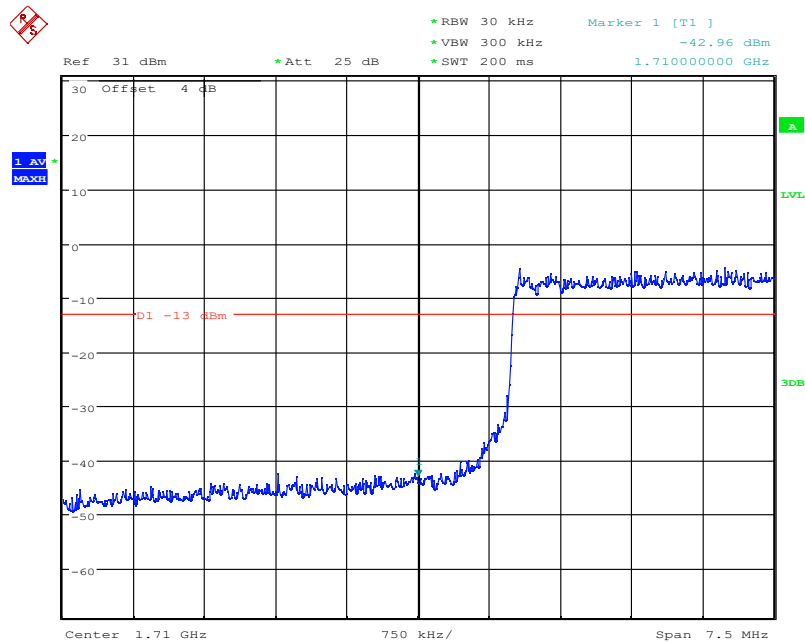


Report No.: I21W00032-WWAN\_Rev2



Date: 2.SEP.2021 15:08:00

LTE Band66, 20MHz bandwidth, QPSK,(1,0) Mode , Below 1710MHz



Date: 2.SEP.2021 15:08:10

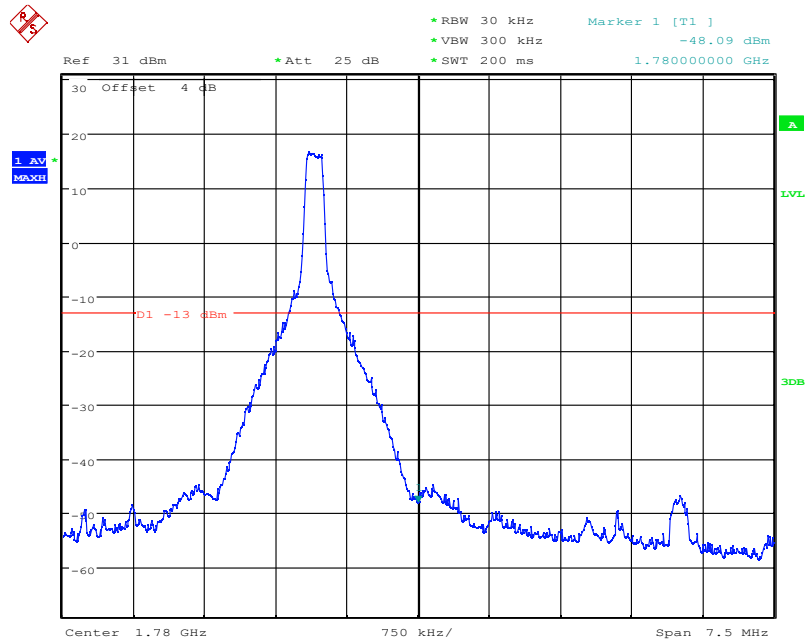
LTE Band66, 20MHz bandwidth, QPSK,(100,0) Mode , Below 1710MHz

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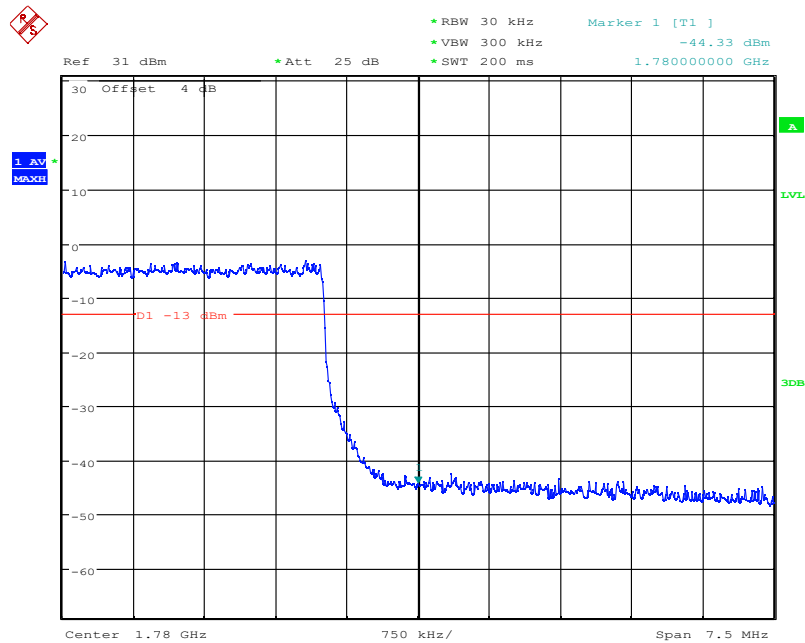


Report No.: I21W00032-WWAN\_Rev2



Date: 2.SEP.2021 15:09:15

LTE Band66, 20MHz bandwidth, QPSK,(1,100) Mode, Above 1780MHz



Date: 2.SEP.2021 15:09:24

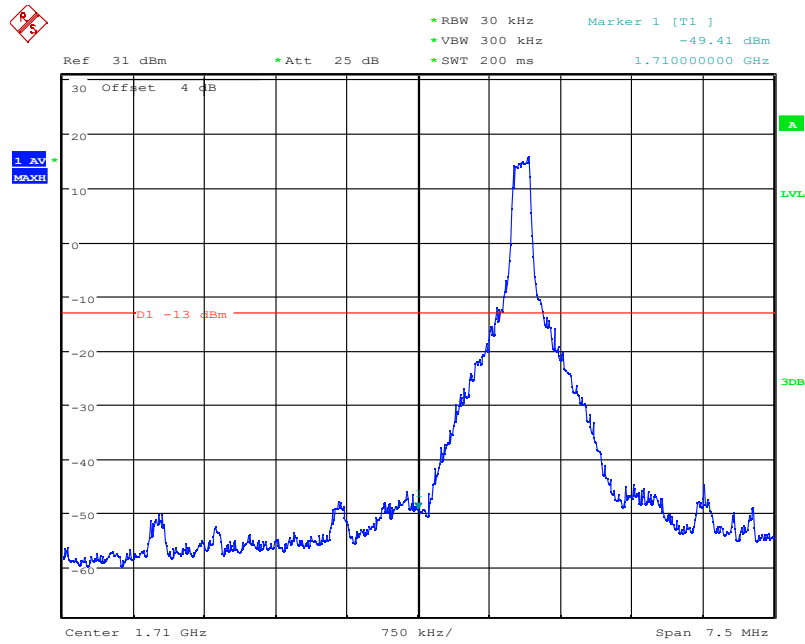
LTE Band66, 20MHz bandwidth, QPSK,(100,0) Mode, Above 1780MHz

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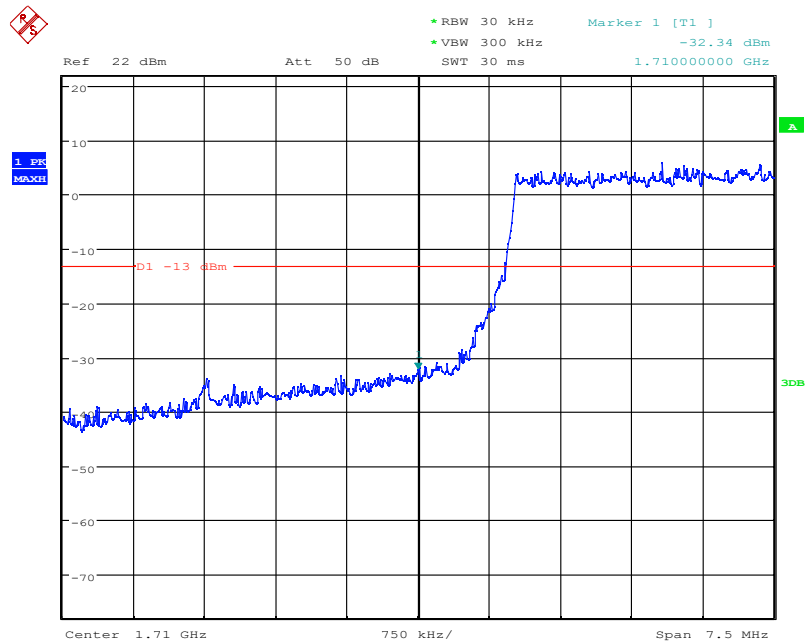


Report No.: I21W00032-WWAN\_Rev2



Date: 2.SEP.2021 15:08:26

LTE Band66, 20MHz bandwidth, 16QAM,(1,0) Mode , Below 1710MHz

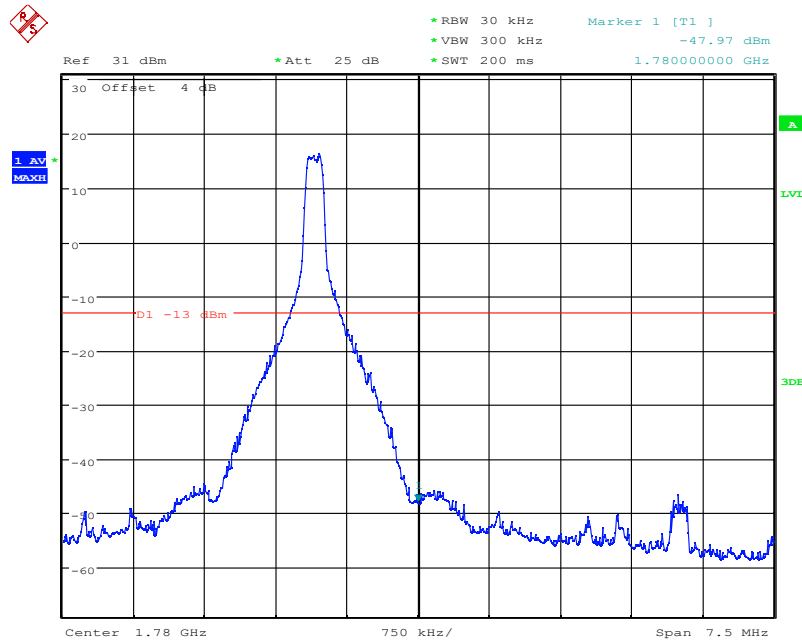


Date: 8.SEP.2021 20:53:22

LTE Band66, 20MHz bandwidth, 16QAM,(27,0) Mode , Below 1710MHz

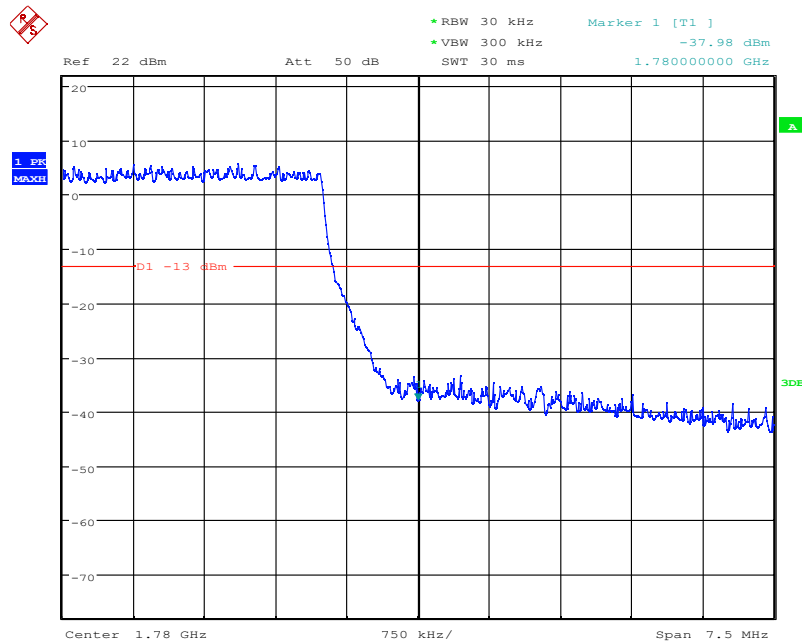
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Date: 2.SEP.2021 15:09:02

LTE Band66, 20MHz bandwidth, 16QAM,(1,100) Mode, Above 1780MHz



Date: 8.SEP.2021 20:53:46

LTE Band66, 20MHz bandwidth, 16QAM,(27,0) Mode, Above 1780MHz

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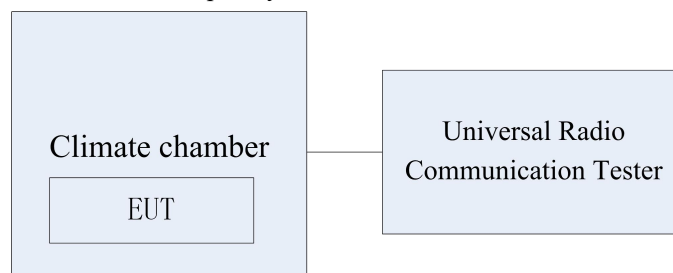
### 6.8. Frequency Stability over Temperature Variation

<b>Specifications:</b>	FCC Part 2.1055, 22.355, 24.235, 27.54
<b>DUT Serial Number:</b>	860710050007536
<b>Test conditions:</b>	Ambient Temperature:15°C-35°C Relative Humidity:30%-60% Air pressure: 86-106kPa
<b>Test Results:</b>	Pass

Limit	
Frequency deviation [ppm]	±2.5

#### Test Setup

The EUT was placed in a temperature chamber, demonstrated as figure T. The Wireless Telecommunications Test Set was used to set the Tx channel and power level, modulate the TX signal with different bit patterns and measure the frequency of Tx.



#### Test Method

- 1、 The EUT was turned off and placed in the temperature chamber.
- 2、 The temperature of the chamber was set to -30°C and allowed to stabilize.
- 3、 The EUT temperature was allowed to stabilize for 45 minutes.
- 4、 The EUT was turned on and set to transmit with Wireless Telecommunications Test Set.
- 5、 The maximum transmit frequency deviation during one minute period was measured by Wireless Communications Test Set.
- 6、 The steps 3-5 were repeated for -30°C, -20°C, -10°C, 0°C, 10°C, 20°C, 30°C, 40°C and 50°C.

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### 6.8.1 GSM Band Frequency Stability over Temperature Variation Results

Band	Offset	Temperature[°C]								
		-30	-20	-10	0	10	20	30	40	50
GSM850 GMSK	Hz	3.86	-2.74	-2.84	4.47	2.55	-1.05	-3.17	-2.45	2.60
	ppm	0.004	0.003	-0.003	0.005	0.003	-0.001	-0.004	-0.003	0.003
GSM850 8PSK	Hz	4.28	3.19	-5.24	2.03	-3.17	5.36	3.37	4.29	4.50
	ppm	0.005	0.004	-0.006	0.003	-0.004	0.006	0.004	0.005	0.005
PCS1900 GMSK	Hz	-4.36	-5.23	3.46	-1.97	5.32	-4.38	-6.14	3.85	-4.19
	ppm	-0.002	-0.002	0.001	-0.001	0.002	-0.002	-0.003	0.001	-0.002
PCS1900 8PSK	Hz	-5.81	6.29	3.72	3.10	4.59	7.33	5.08	4.37	5.20
	ppm	-0.003	0.003	0.001	0.001	0.002	0.003	0.003	0.002	0.003

### 6.8.2 LTE Band Frequency Stability over Temperature Variation Results

Band	Offset	Temperature[°C]								
		-30	-20	-10	0	10	20	30	40	50
2	Hz	4.71	2.00	-2.23	3.04	4.97	-4.23	2.30	-0.33	1.76
	ppm	-0.003	0.001	-0.001	0.002	0.003	-0.002	0.001	-0.0002	0.001
4	Hz	1.80	4.21	3.98	-0.12	-5.06	0.78	1.07	3.28	-0.66
	ppm	0.001	0.002	0.002	-0.0001	-0.003	0.0004	0.0006	0.002	-0.0004
5	Hz	-4.06	2.79	2.32	2.13	-4.52	4.46	-0.19	4.38	3.47
	ppm	-0.005	0.003	0.003	0.003	-0.005	0.005	-0.0002	0.005	0.004
66	Hz	-2.30	-2.07	4.65	1.35	-1.67	-5.62	-1.47	2.36	4.37
	ppm	-0.001	-0.001	0.003	0.001	-0.001	-0.003	-0.0001	0.001	0.003

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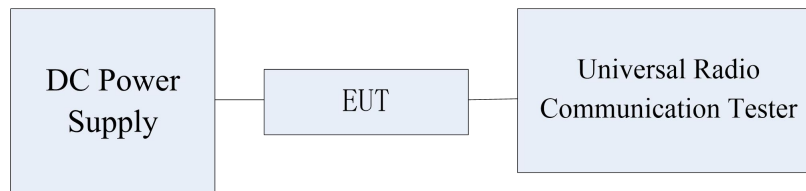
### 6.9. Frequency Stability over Voltage Variation

<b>Specifications:</b>	FCC Part 2.1055, 22.355, 24.235, 27.54
<b>DUT Serial Number:</b>	860710050007536
<b>Test conditions:</b>	Ambient Temperature:15 °C-35 °C Relative Humidity:30%-60% Air pressure: 86-106kPa
<b>Test Results:</b>	pass

Limit	
Frequency deviation [ppm]	±2.5

#### Test Setup

The EUT was placed in a shielding chamber and powered by an adjustable power supply, demonstrated as figure V. A Wireless Telecommunications Test Set was used to set the TX channel and power level, modulate the TX signal with different bit patterns and measure the frequency of TX.



#### Test Method

The EUT was powered by the adjustable power supply. The frequency stability is measured by the Wireless Telecommunications Test Set.

### 6.9.1 GSM Band Frequency Stability over Voltage Variation Results

Test data:

Band	Offset	Voltage (V)		
		3.40	3.80	4.20
GSM850 GMSK	Hz	3.47	4.29	-3.18
	ppm	0.004	0.005	-0.003
GSM850 8PSK	Hz	5.10	4.82	6.19
	ppm	0.006	0.005	0.007
PCS1900 GMSK	Hz	4.25	2.67	3.84
	ppm	0.002	0.001	0.002
PCS1900 8PSK	Hz	3.89	5.20	4.60
	ppm	0.002	0.002	0.002

### 6.9.2 LTE Band Frequency Stability over Voltage Variation Results

Test data:

Band	Offset	Voltage (V)		
		3.40	3.80	4.20
2	Hz	-6.31	3.51	1.72
	ppm	-0.003	0.002	0.001
4	Hz	-5.31	4.16	-0.30
	ppm	0.003	0.002	-0.0002
5	Hz	-3.99	0.36	-0.49
	ppm	-0.005	0.0004	-0.0006
66	Hz	1.52	-4.74	-5.13
	ppm	0.001	-0.003	-0.003

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### 6.10. Peak to Average Ratio

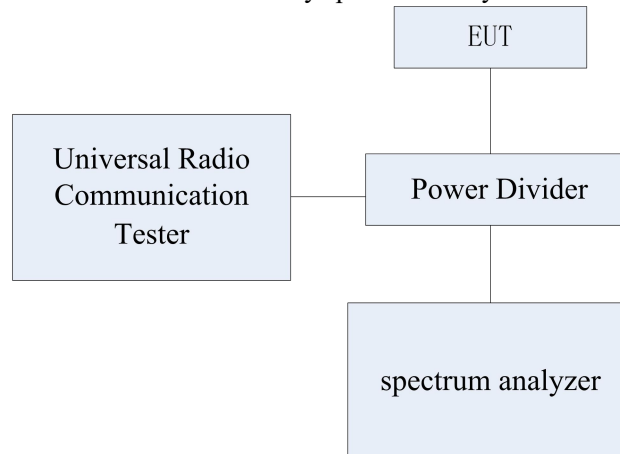
<b>Specifications:</b>	FCC Part 24.232, 27.50
<b>DUT Serial Number:</b>	860710050007536
<b>Test conditions:</b>	Ambient Temperature:15 °C-35 °C Relative Humidity:30%-60% Air pressure: 86-106kPa
<b>Test Results:</b>	Pass

#### Limit

The EUT meets the requirement of having a peak to average ratio of less than 13dB.

#### Test Setup

During the test, the EUT was controlled via the Wireless Communications Test Set to ensure max power transmission and proper modulation and measured by spectrum analyzer.



#### Test Method

The transmitter output was connected to a CMW500 through a coaxial RF cable and directional coupler, and configured to operate at maximum power. The peak to average ratio was measured at the required operating frequencies in each Band on the Spectrum Analyzer.

### 6.10.1 GSM850 Peak to Average Ratio Results

Frequency (MHz)	EUT channel No.	Modulation	Peak to Average Ratio
836.6	190	GMSK	10.10
		8PSK	12.97

### 6.10.2 GSM1900 Peak to Average Ratio Results

Frequency (MHz)	EUT channel No.	Modulation	Peak to Average Ratio
1880	661	GMSK	10.10
		8PSK	12.81

### 6.10.3 LTE B2 Peak to Average Ratio Results

Frequency (MHz)	EUT channel No.	bandwidth	Modulation	Peak to Average Ratio
1880MHz	18900	10MHz	QPSK	6.49
			16QAM	6.79

### 6.10.4 LTE B4 Peak to Average Ratio Results

Frequency (MHz)	EUT channel No.	bandwidth	Modulation	Peak to Average Ratio
1732.5MHz	20175	10MHz	QPSK	7.23
			16QAM	6.87

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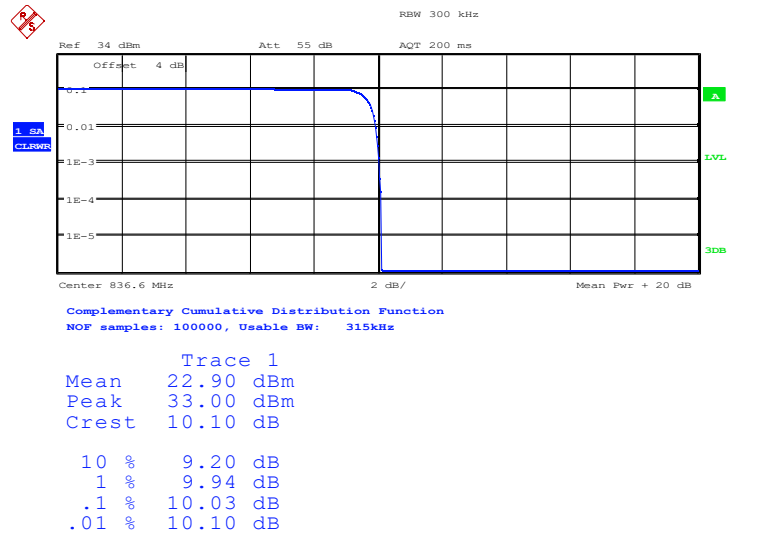
### 6.10.5 LTE B5 Peak to Average Ratio Results

Frequency (MHz)	EUT channel No.	bandwidth	Modulation	Peak to Average Ratio
836.5MHz	20525	10MHz	QPSK	6.49
			16QAM	6.08

### 6.10.6 LTE B66 Peak to Average Ratio Results

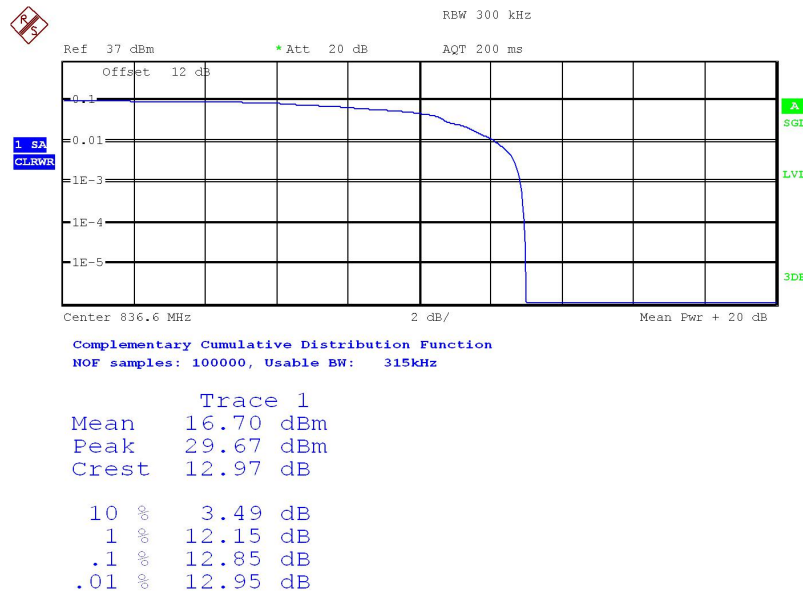
Frequency (MHz)	EUT channel No.	bandwidth	Modulation	Peak to Average Ratio
1745MHz	132322	10MHz	QPSK	7.14
			16QAM	6.49

Graphical for Peak to Average Ratio Results



Date: 2.SEP.2021 22:35:40

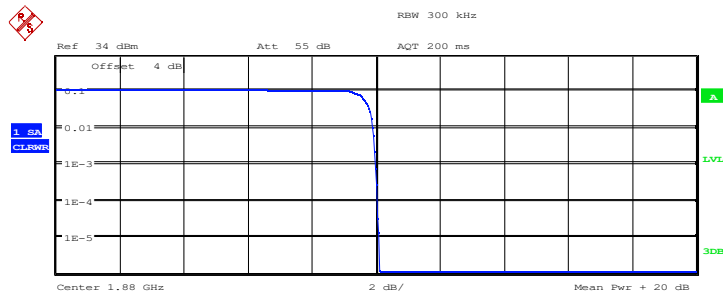
GSM850, GMSK



GSM850,8PSK

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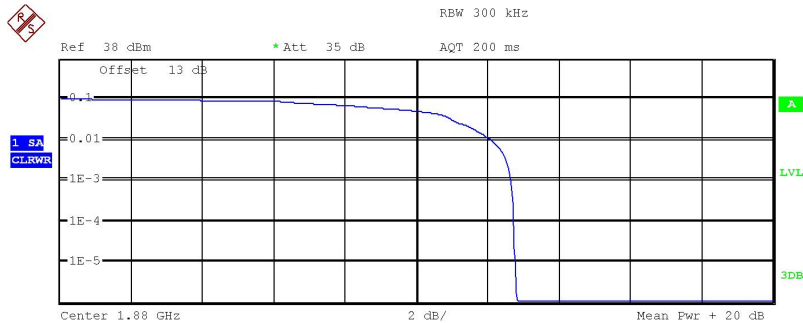


Complementary Cumulative Distribution Function  
NOF samples: 100000, Usable BW: 315kHz

Trace 1	
Mean	19.58 dBm
Peak	29.68 dBm
Crest	10.10 dB
10 %	9.20 dB
1 %	9.90 dB
.1 %	10.00 dB
.01 %	10.06 dB

Date: 2.SEP.2021 22:19:51

### PCS1900, GMSK



Trace 1	
Mean	7.41 dBm
Peak	20.21 dBm
Crest	12.81 dB
10 %	2.28 dB
1 %	12.08 dB
.1 %	12.66 dB
.01 %	12.76 dB

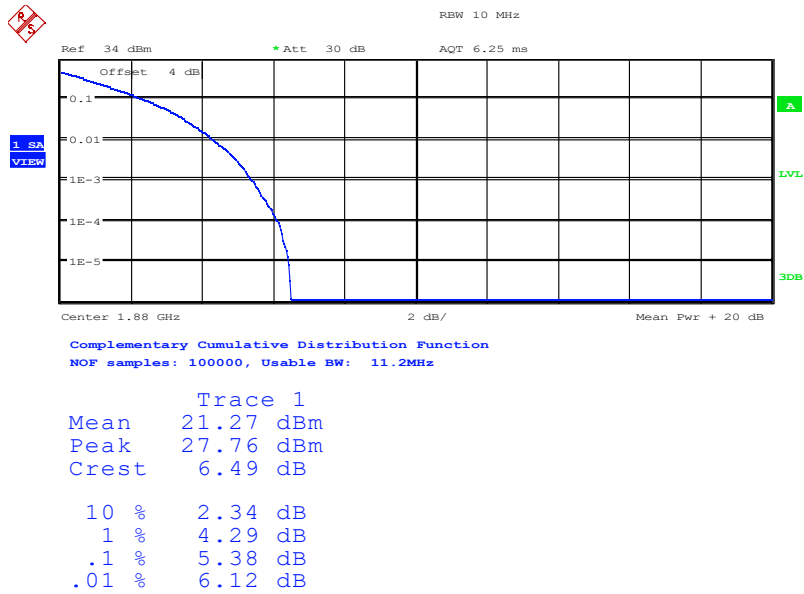
### PCS1900, 8PSK

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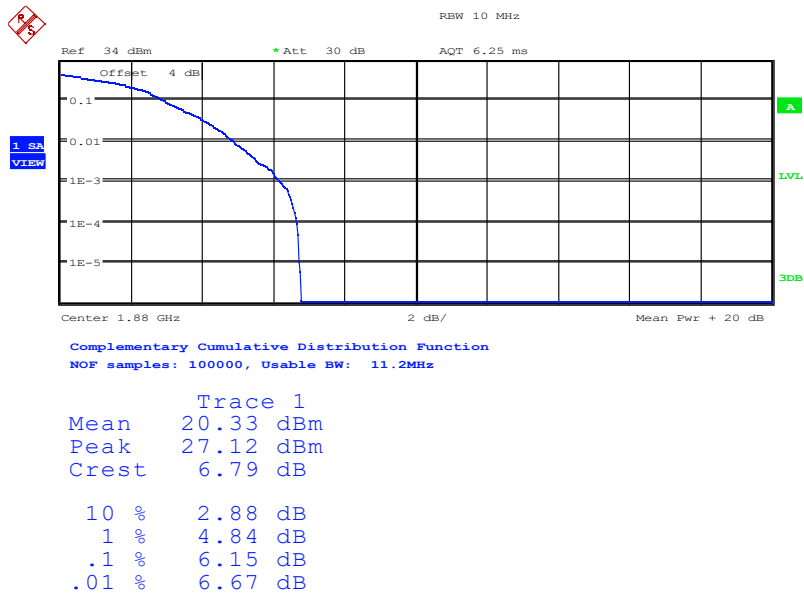


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Date: 1.SEP.2021 22:28:40

## LTE Band2, QPSK



Date: 1.SEP.2021 22:36:09

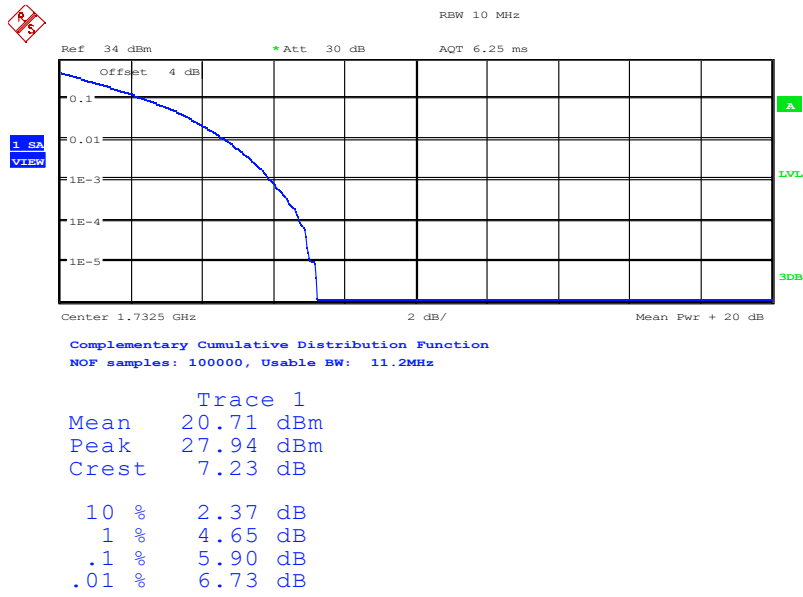
## LTE Band2, 16QAM

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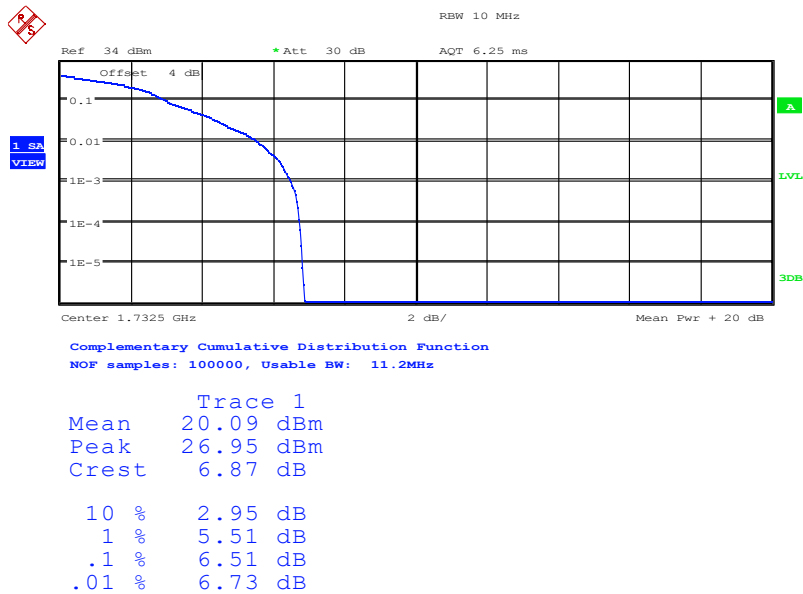


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Date: 1.SEP.2021 22:31:48

## LTE Band4, QPSK



Date: 1.SEP.2021 22:32:16

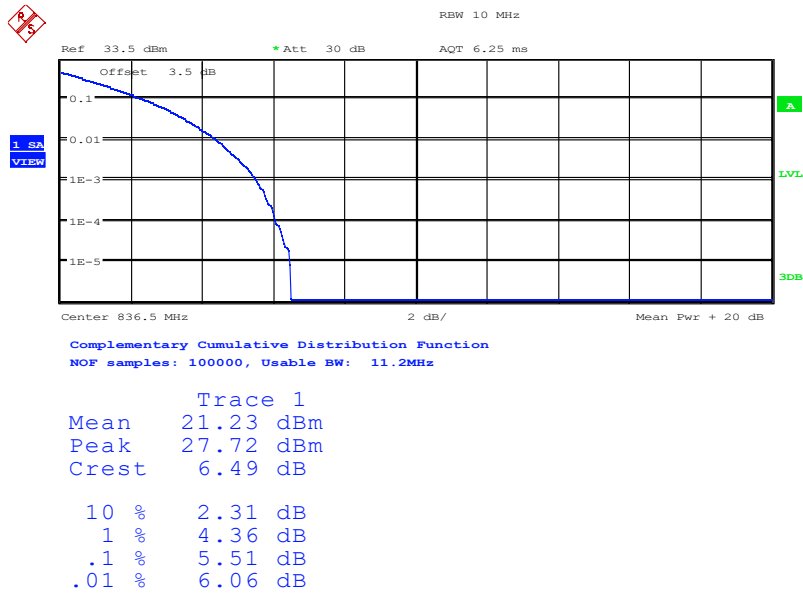
## LTE Band4, 16QAM

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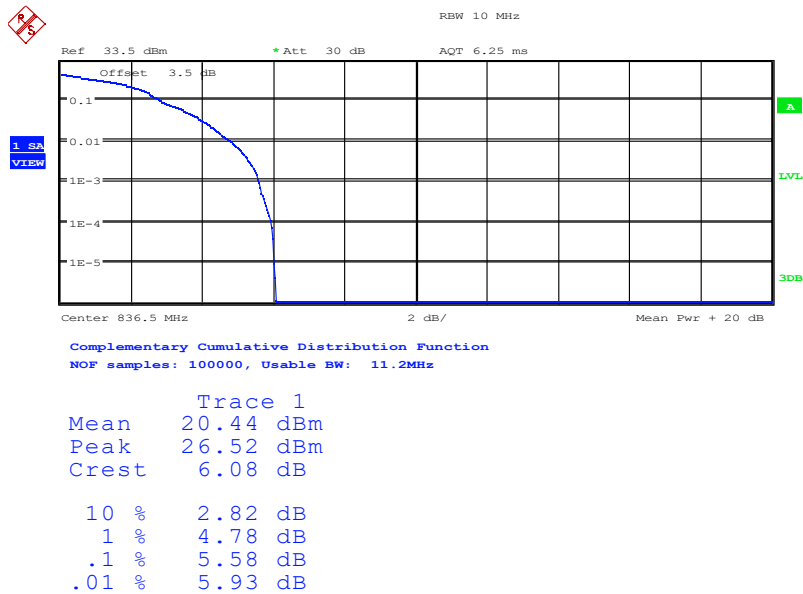


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Date: 1.SEP.2021 22:33:40

LTE Band5, QPSK



Date: 1.SEP.2021 22:33:05

LTE Band5, 16QAM

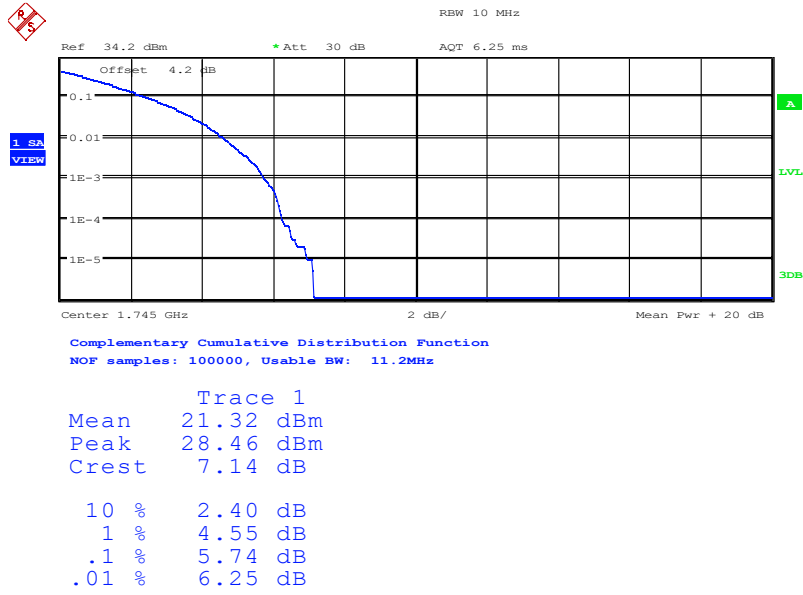
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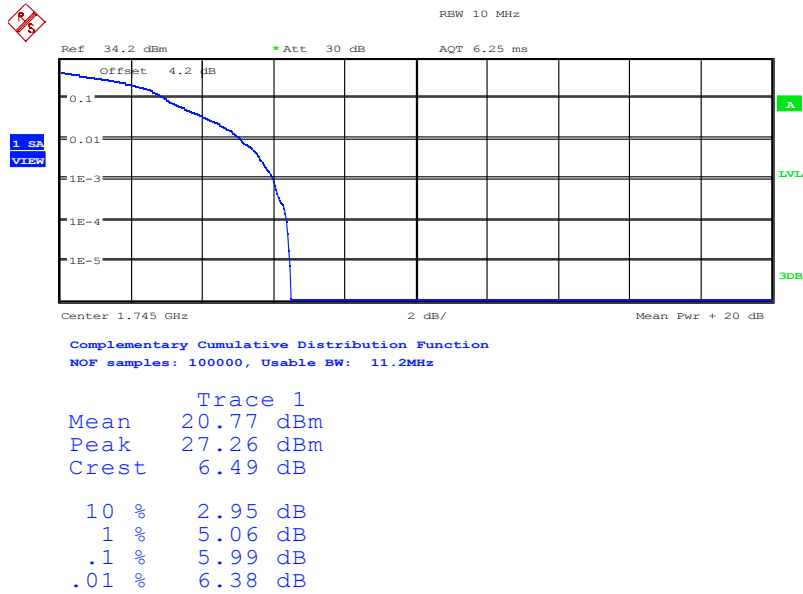


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Date: 1.SEP.2021 22:34:36

LTE Band66, QPSK



Date: 1.SEP.2021 22:35:13

LTE Band66, 16QAM

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## **Annex A EUT Photos**

See the document "A7672SA -External Photos".

See the document "A7672SA-Internal Photos".

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## **ANNEX B Deviations from Prescribed Test Methods**

No deviation from Prescribed Test Methods.

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