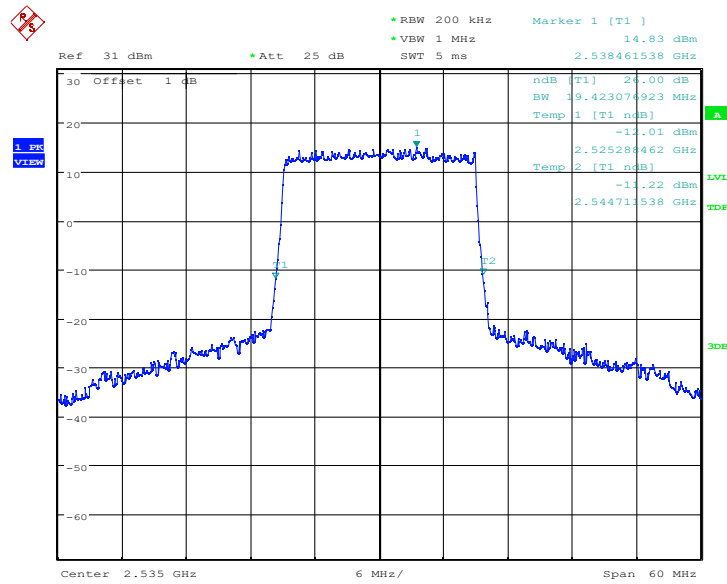
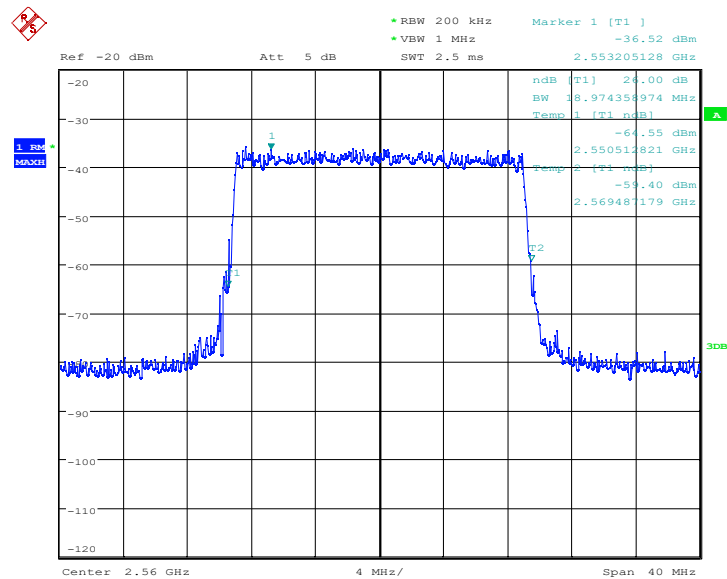




Date: 13.JUN.2022 23:20:50



Date: 21.JUL.2022 16:33:39

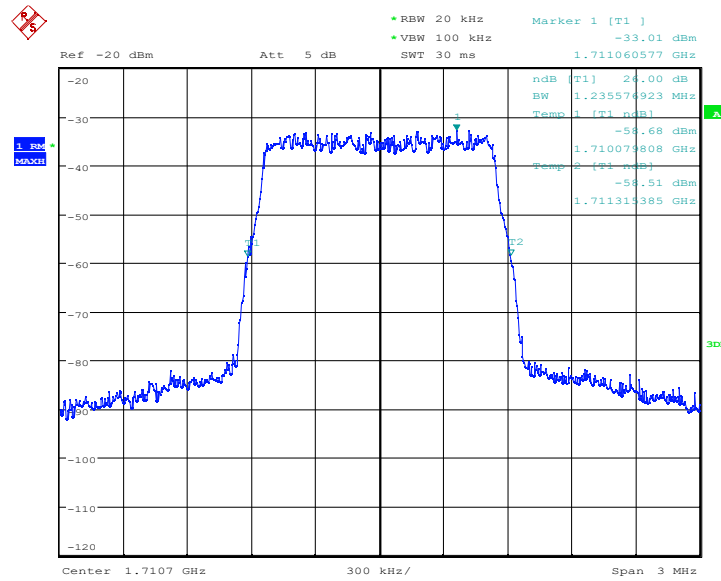
LTE band 66,1.4MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
1710.7	1.235	1.254
1745	1.265	1.279
1779.3	1.240	1.254

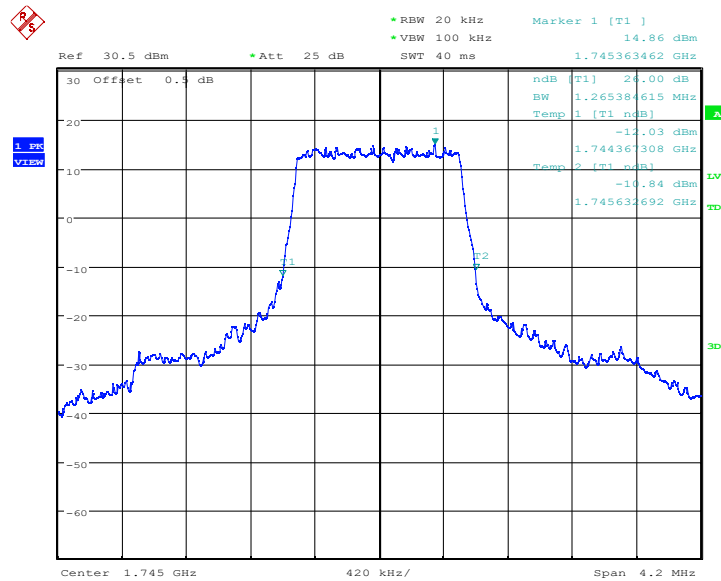
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LTE band 66 , 1.4MHz Bandwidth,QPSK (-26dBc BW)



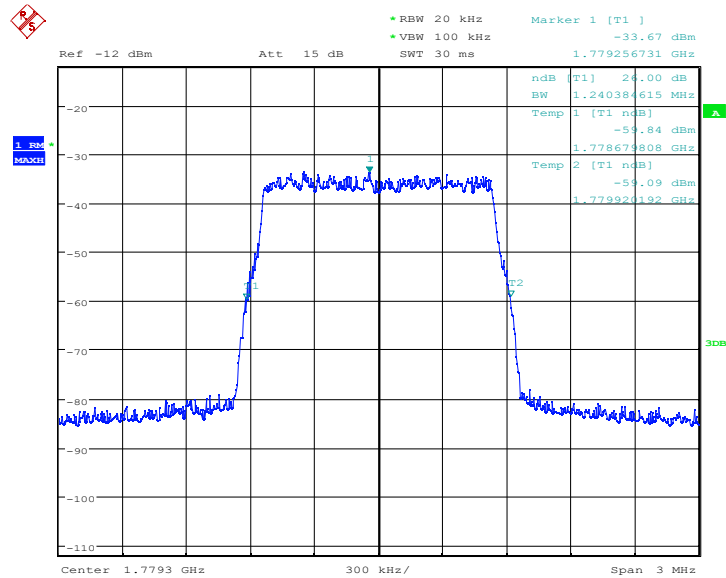
Date: 21.JUL.2022 17:24:10



Date: 13.JUN.2022 23:21:18

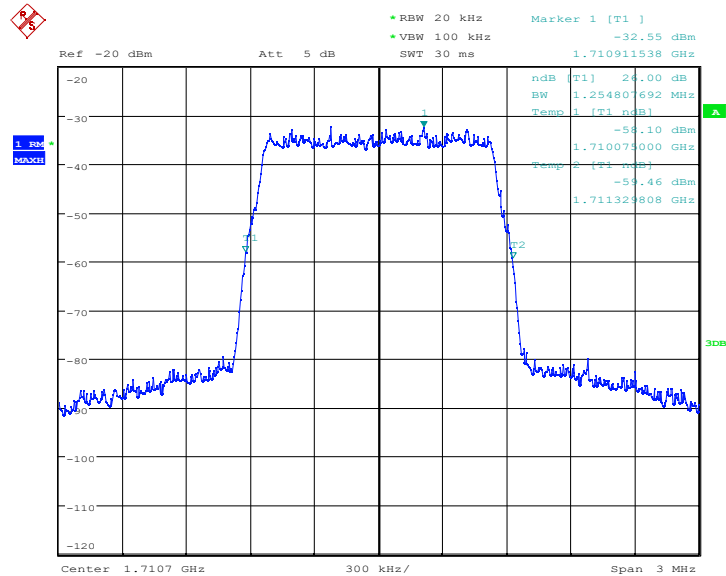
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Date: 21.JUL.2022 17:47:54

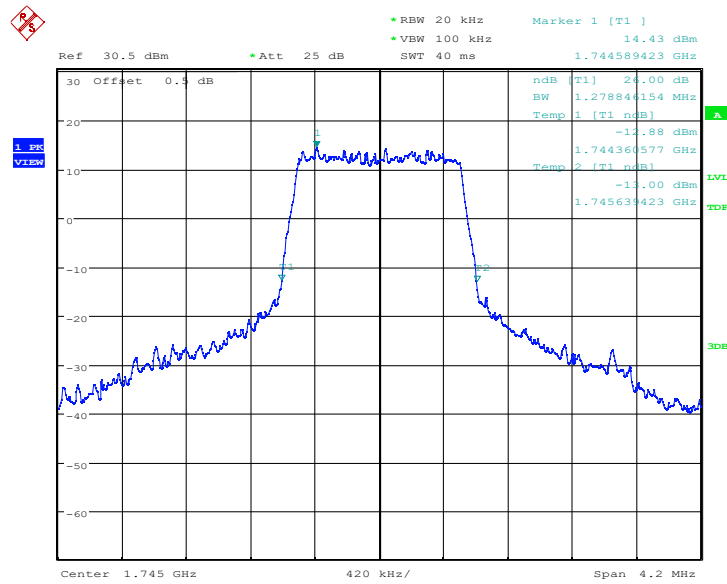
LTE band 66 , 1.4MHz Bandwidth,16QAM (-26dBc BW)



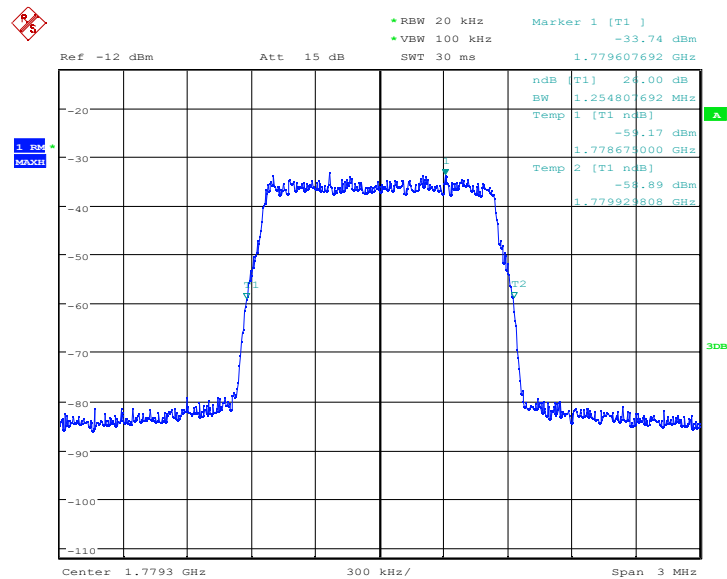
Date: 21.JUL.2022 17:24:27

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Tel: 0086-23-88069965 FAX:0086-23-88608777



Date: 13.JUN.2022 23:21:42



Date: 21.JUL.2022 17:47:30

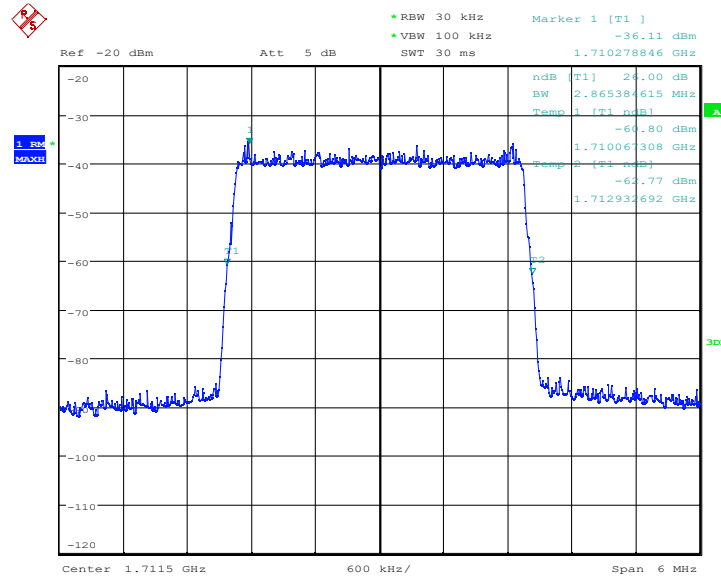
LTE band 66,3MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
1711.5	2.865	2.865
1745	2.913	2.913
1778.5	2.884	2.894

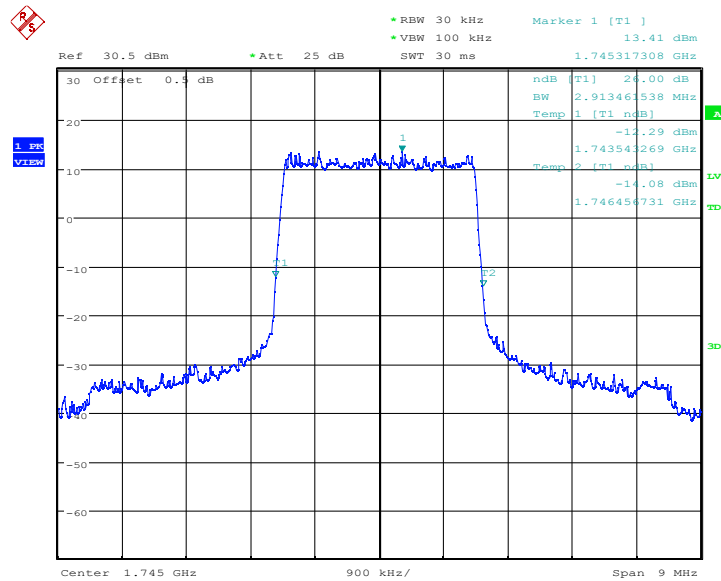
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LTE band 66 , 3MHz Bandwidth,QPSK (-26dBc BW)



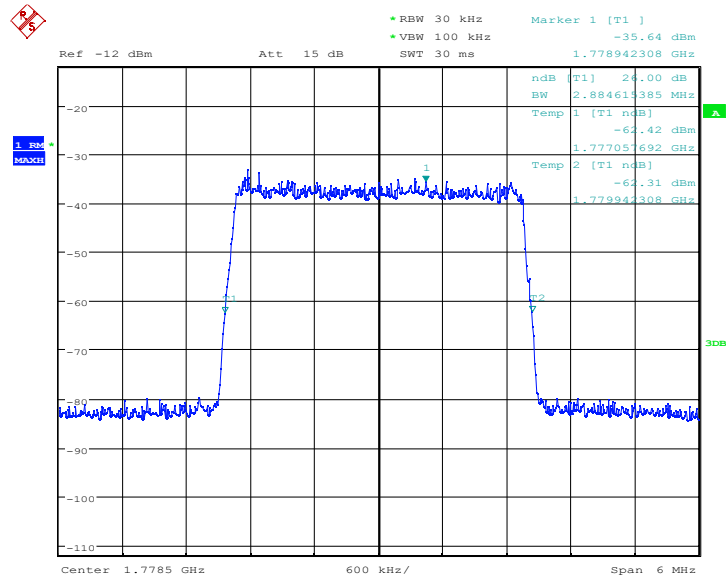
Date: 21.JUL.2022 17:25:30



Date: 13.JUN.2022 23:22:09

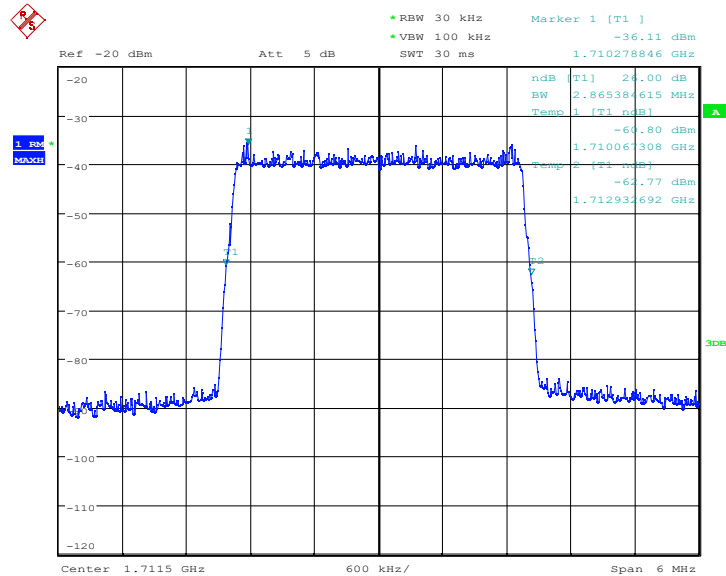
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Date: 21.JUL.2022 17:45:44

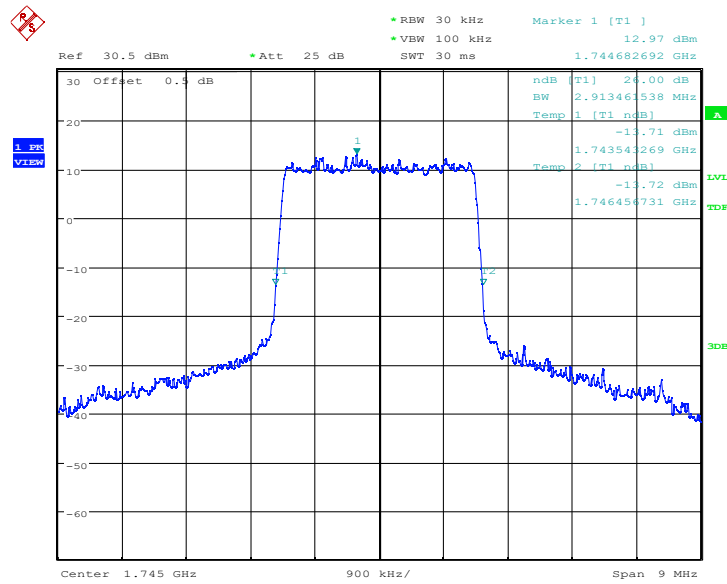
LTE band 66 , 3MHz Bandwidth,16QAM (-26dBc BW)



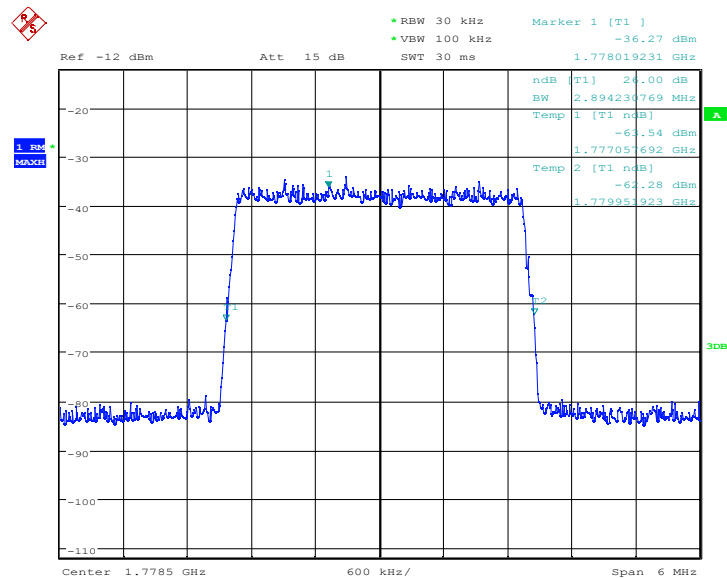
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Date: 13.JUN.2022 23:22:34



Date: 21.JUL.2022 17:45:28

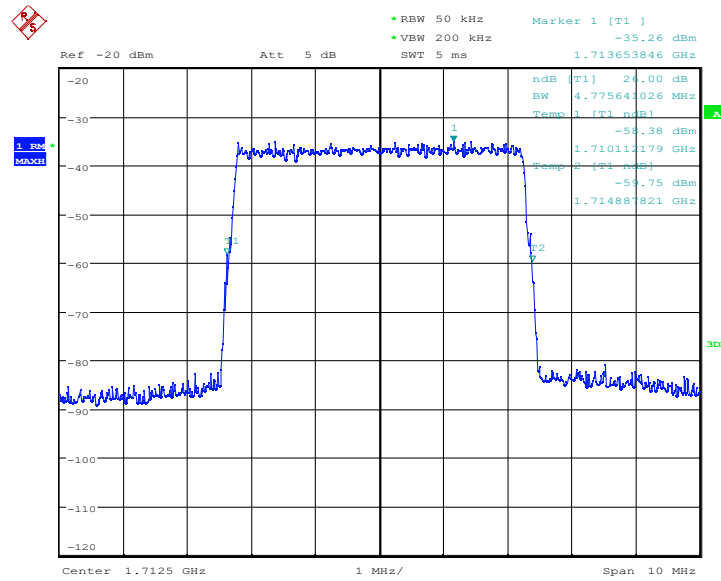
LTE band 66,5MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
1712.5	4.775	4.807
1745	4.808	4.808
1777.5	4.791	4.791

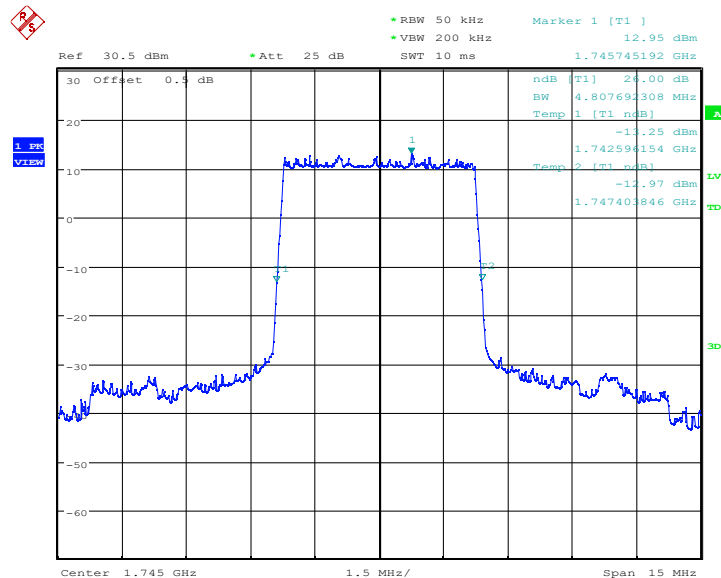
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LTE band 66 , 5MHz Bandwidth,QPSK (-26dBc BW)



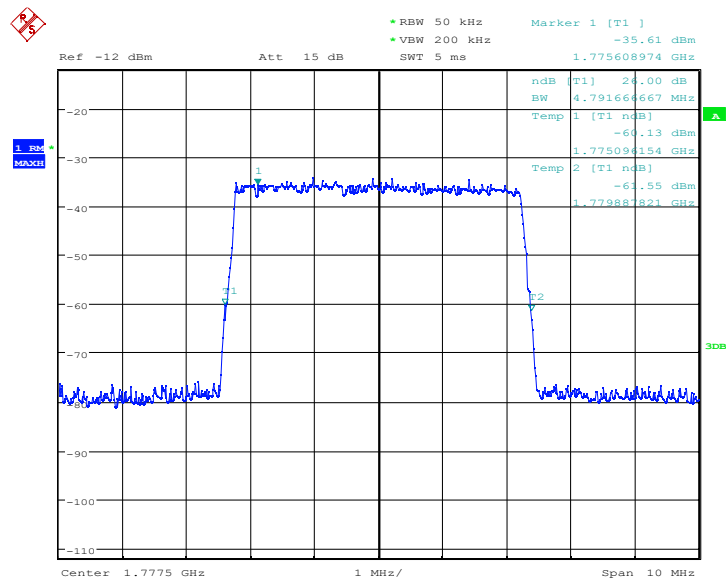
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Date: 13.JUN.2022 23:23:00

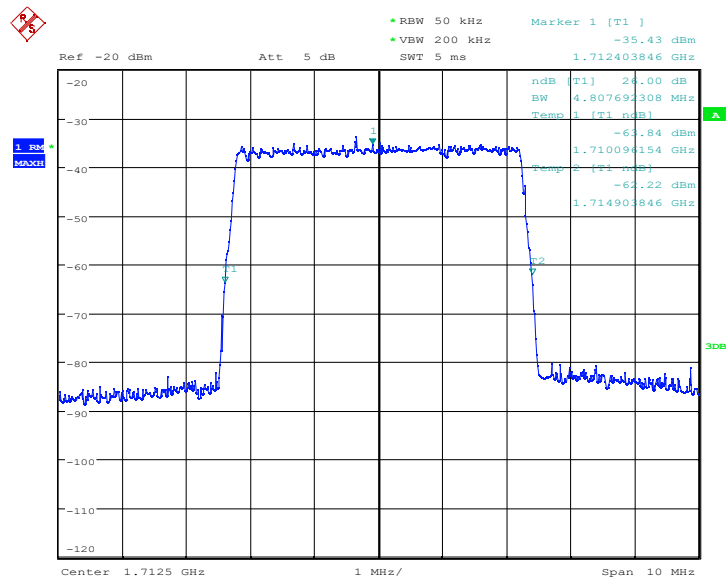
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Date: 21.JUL.2022 17:43:53

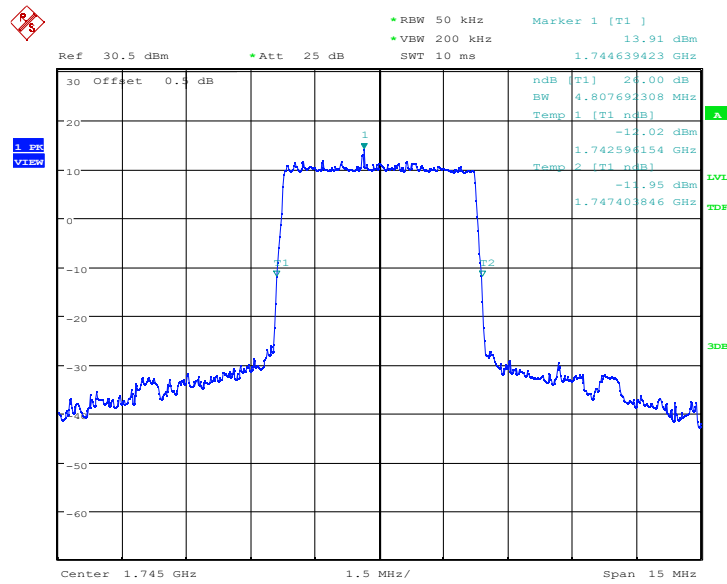
LTE band 66 , 5MHz Bandwidth,16QAM (-26dBc BW)



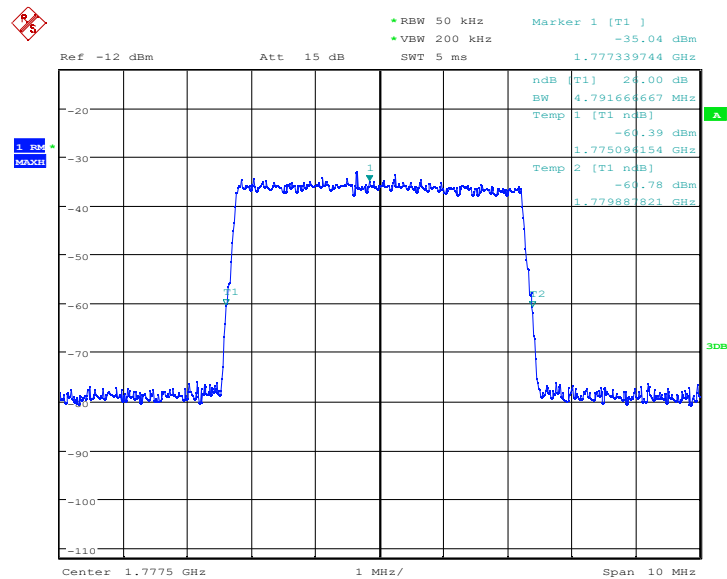
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Date: 13.JUN.2022 23:23:24



Date: 21.JUL.2022 17:43:36

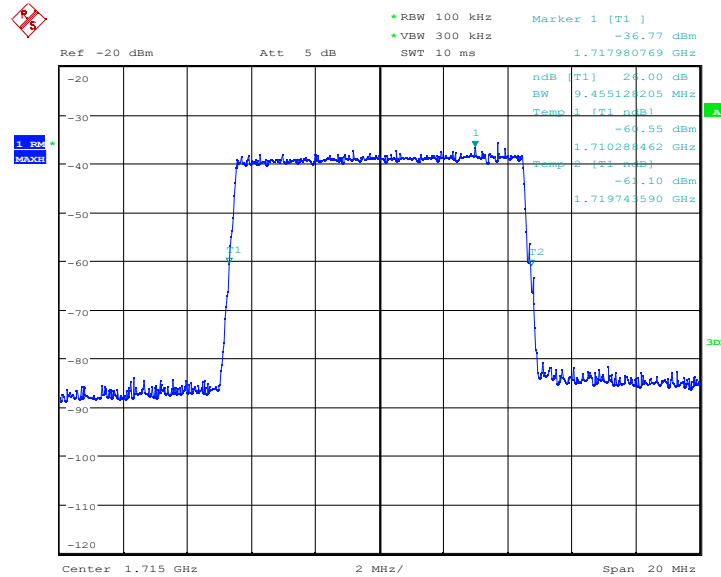
LTE band 66,10MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
1715	9.455	9.487
1745	9.615	9.519
1775	9.487	9.423

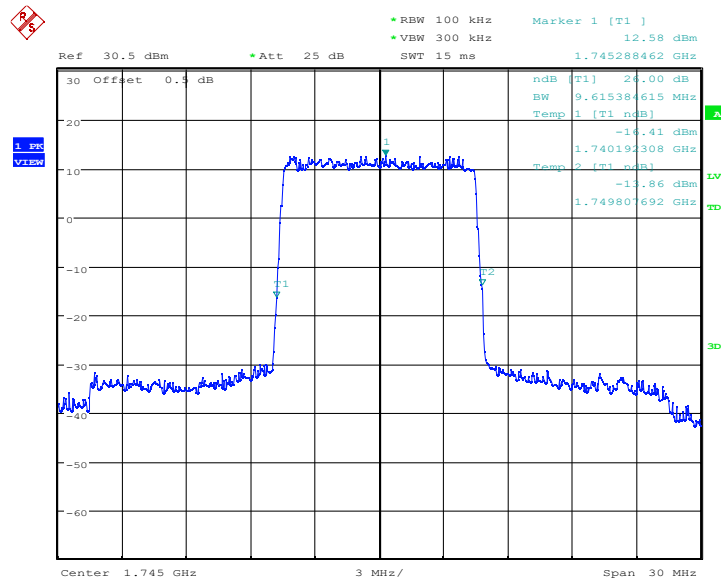
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LTE band 66 , 10MHz Bandwidth,QPSK (-26dBc BW)



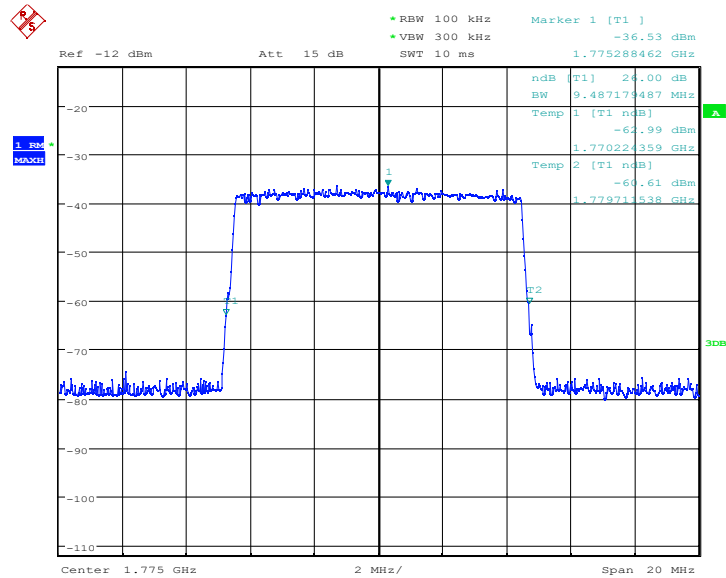
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Date: 13.JUN.2022 23:23:51

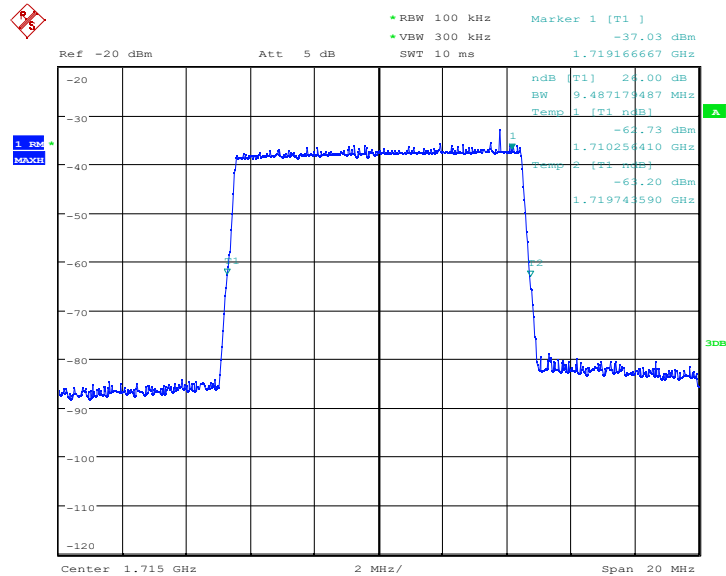
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Date: 21.JUL.2022 17:42:22

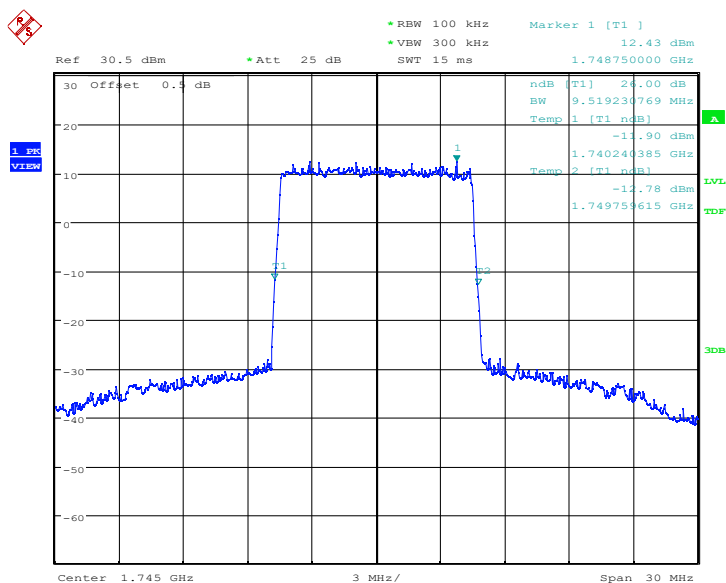
LTE band 66 , 10MHz Bandwidth,16QAM (-26dBc BW)



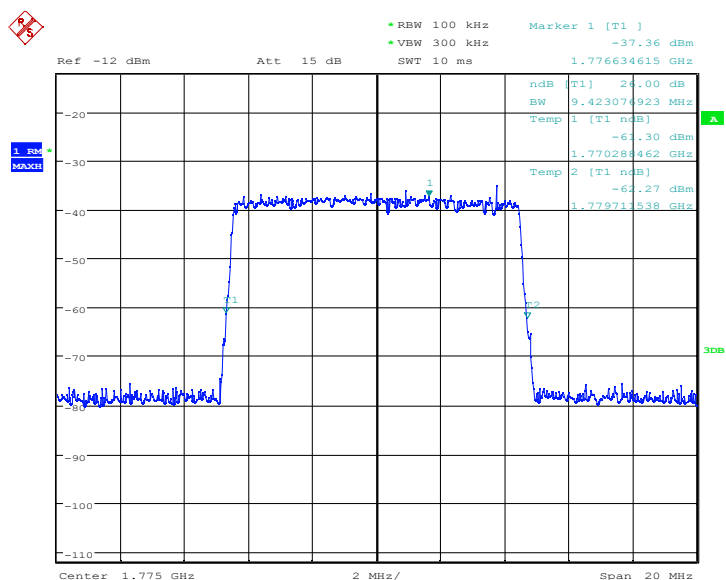
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Date: 13.JUN.2022 23:24:13



Date: 21.JUL.2022 17:42:00

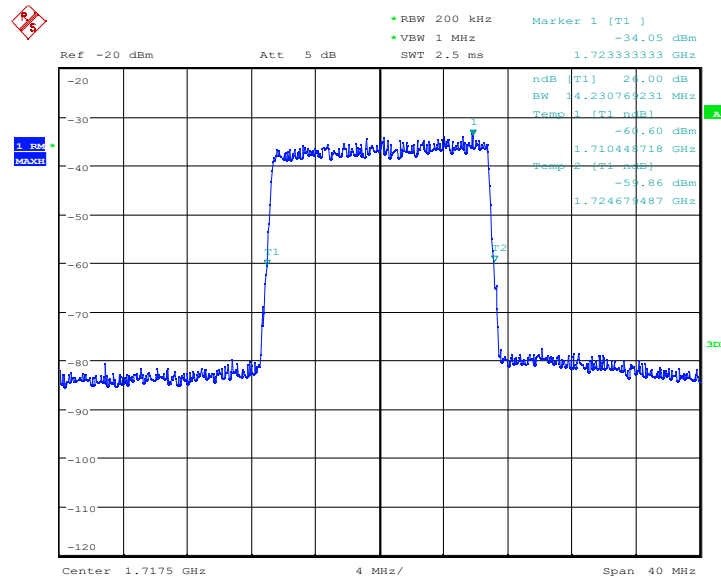
LTE band 66,15MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
1717.5	14.230	14.358
1745	14.567	14.495
1772.5	14.358	14.294

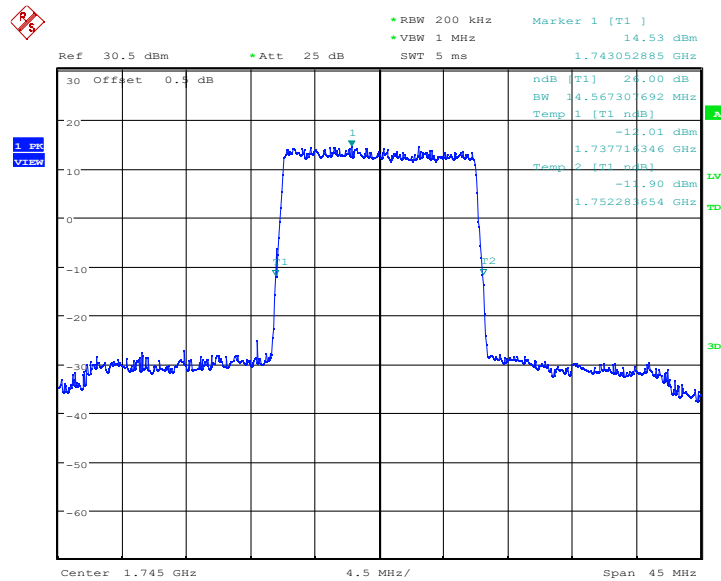
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LTE band 66 , 15MHz Bandwidth,QPSK (-26dBc BW)



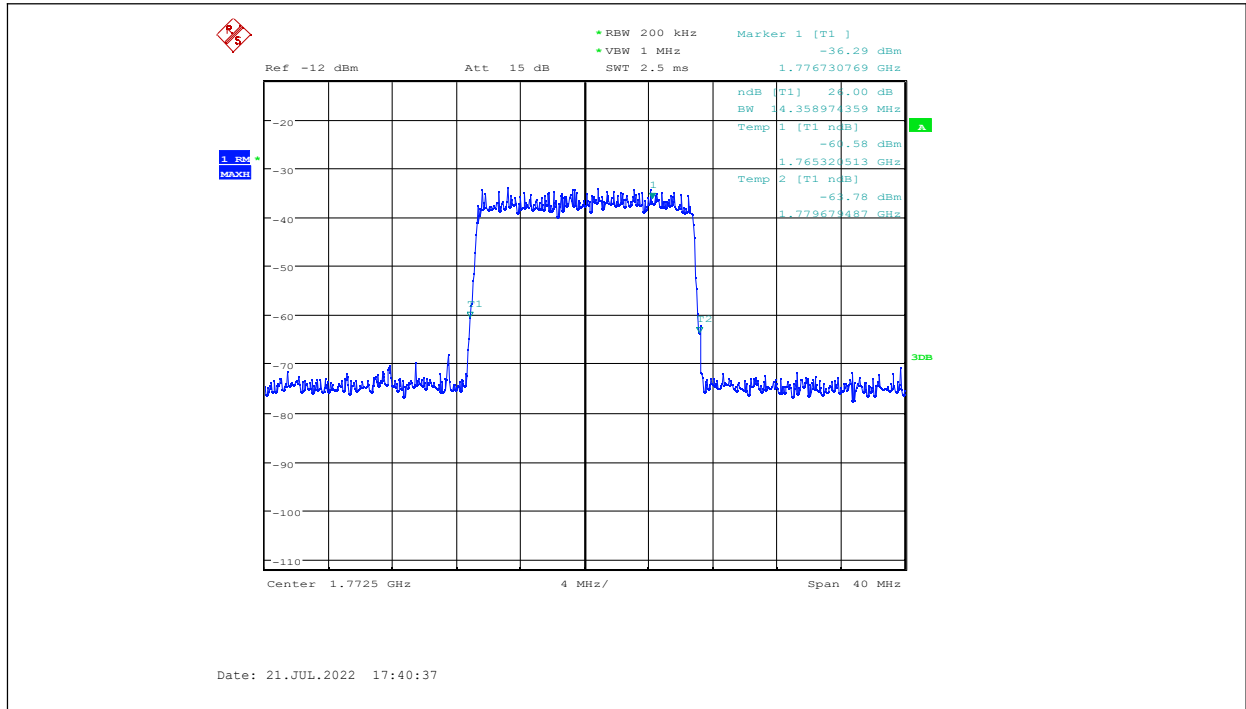
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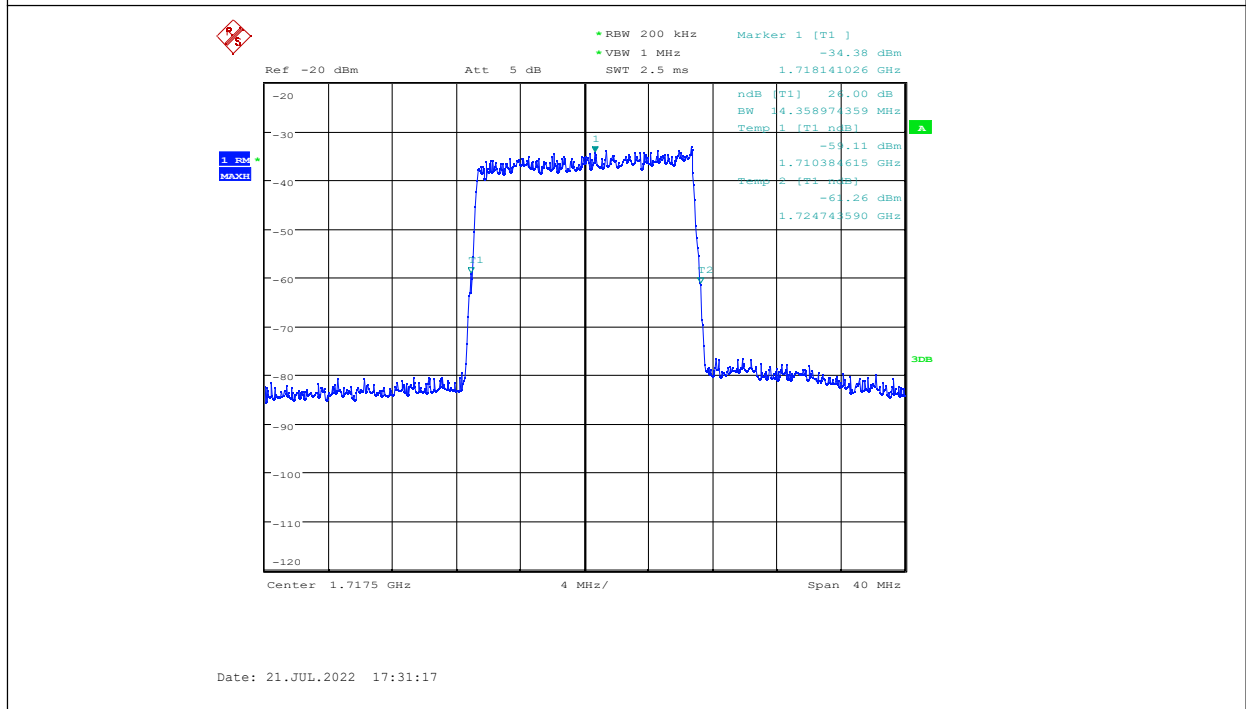
Date: 13.JUN.2022 23:24:39

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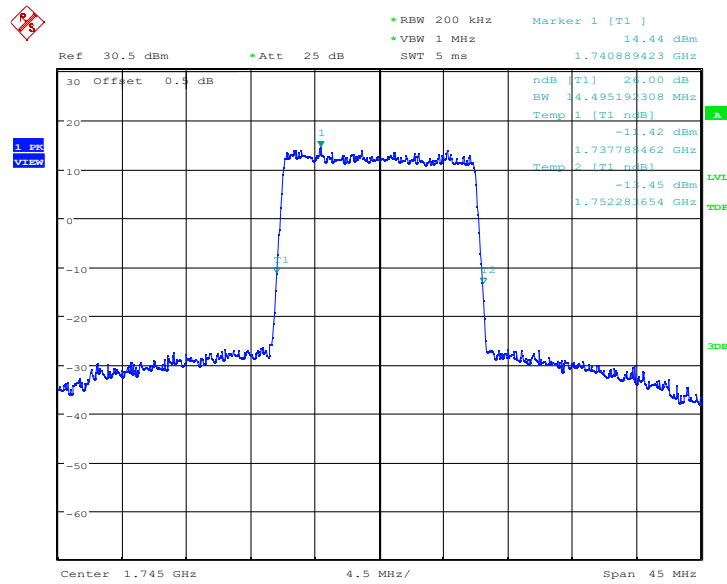


LTE band 66 , 15MHz Bandwidth,16QAM (-26dBc BW)

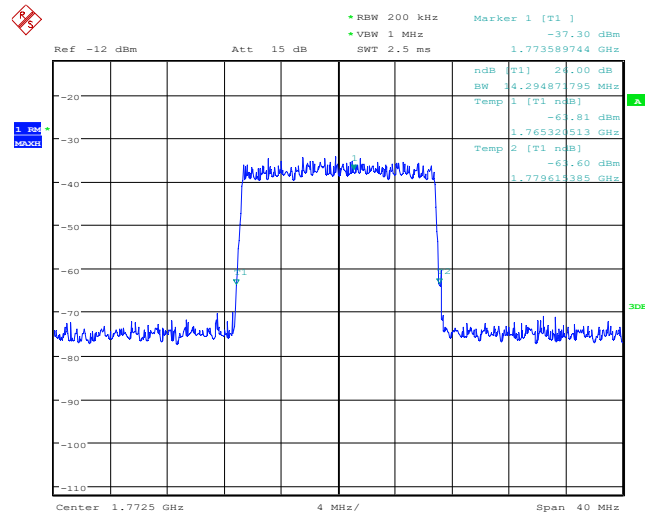


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Date: 13.JUN.2022 23:25:02



Date: 21.JUL.2022 17:38:56

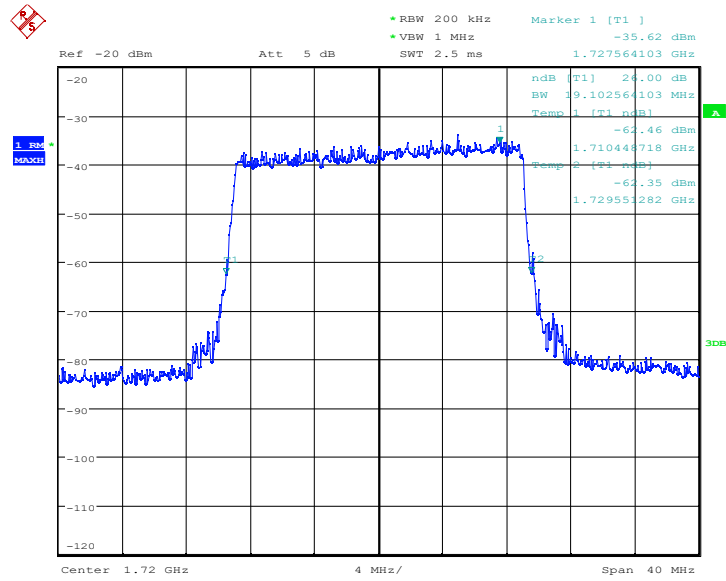
LTE band 66,20MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
1720	19.102	19.102
1745	19.231	19.423
1770	18.910	18.910

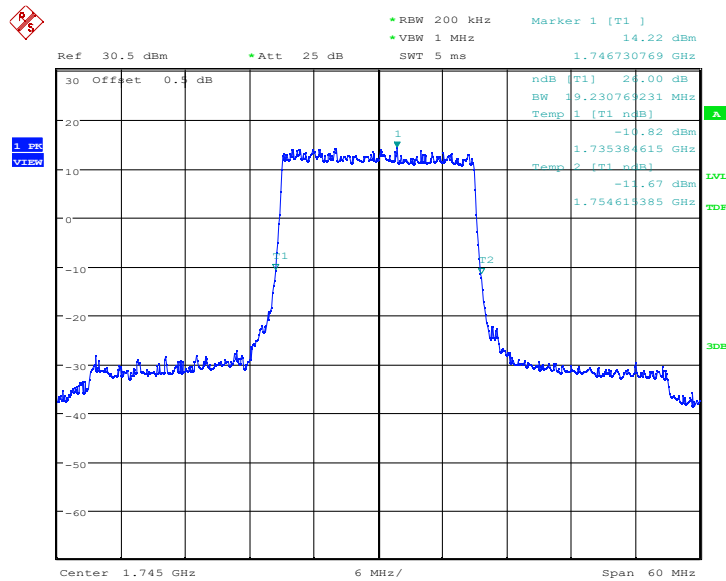
LTE band 66 , 20MHz Bandwidth,QPSK (-26dBc BW)

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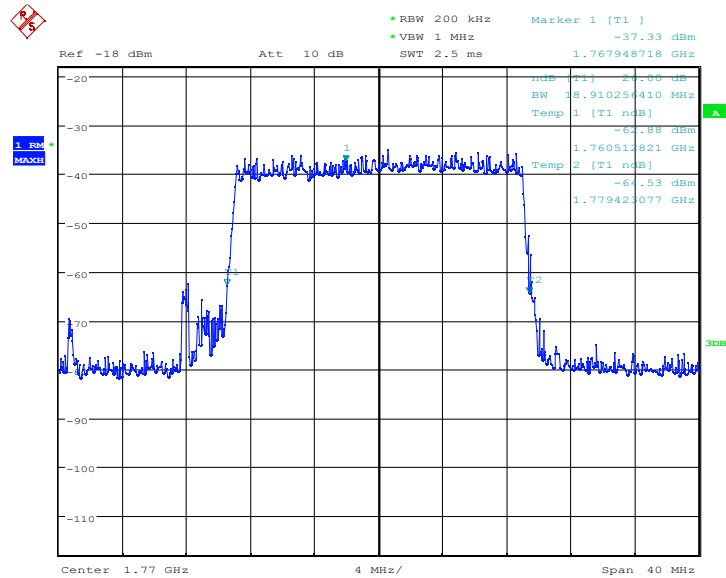
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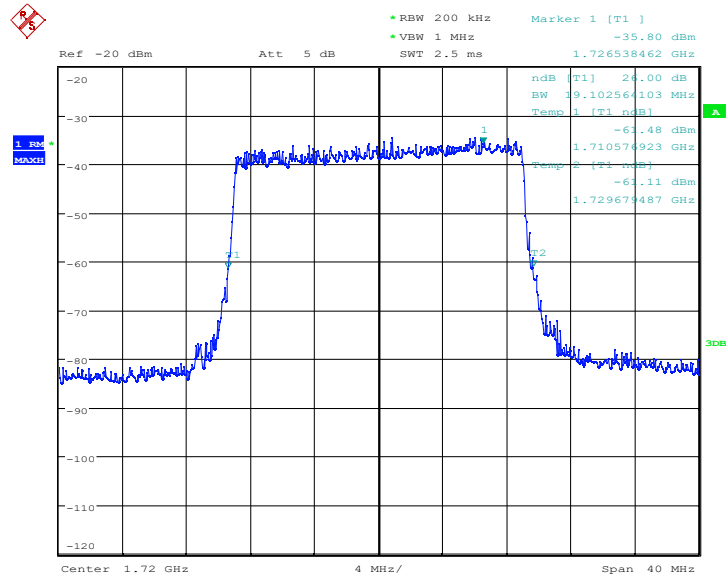
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Date: 21.JUL.2022 17:36:36

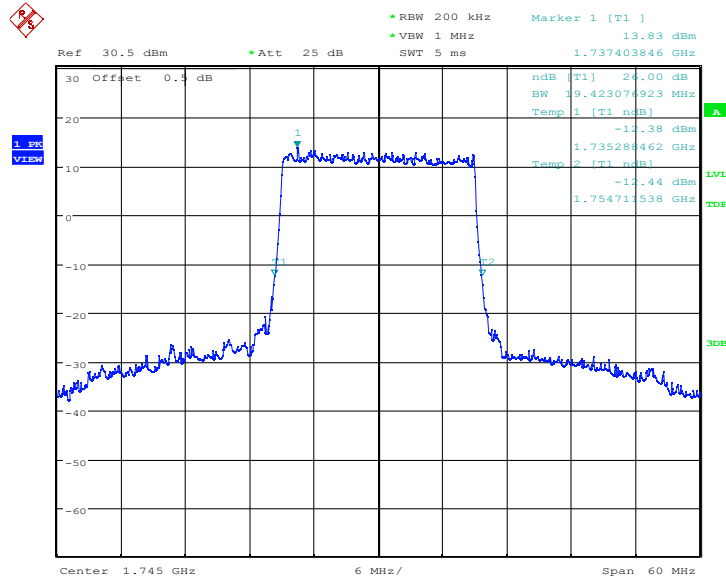
LTE band 66 , 20MHz Bandwidth,16QAM (-26dBc BW)



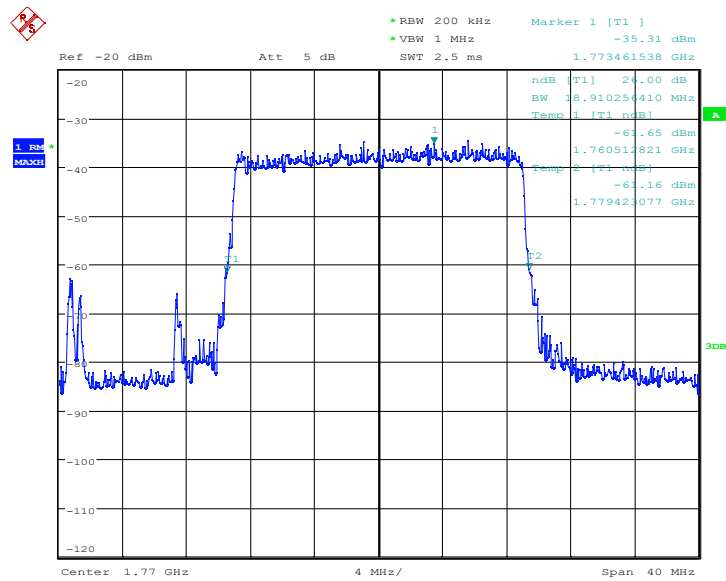
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Date: 13.JUN.2022 23:25:51



Date: 21.JUL.2022 17:33:49

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6.5. Conducted spurious emissions

Specifications:	FCC Part 2.1051, 24.238, 2.1053, 22.917, 27.53
DUT Serial Number:	864788050910772
Test conditions:	Ambient Temperature:15°C-35°C Relative Humidity:30%-60% Air pressure: 86-106kPa
Test Results:	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.

Measurement Uncertainty:

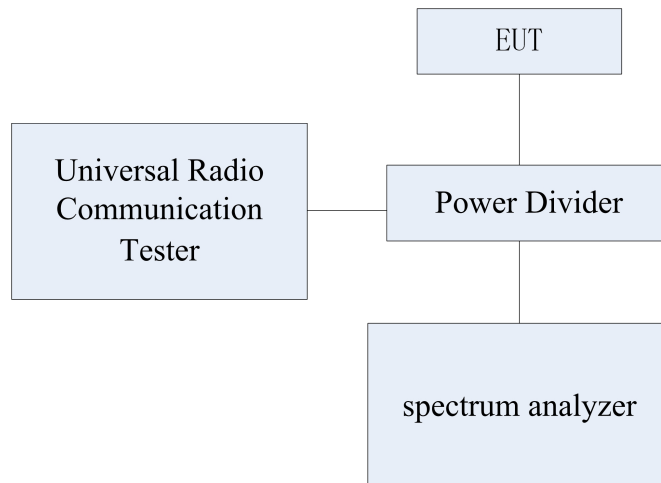
Item	Uncertainty	
Expanded Uncertainty	$9\text{kHz} < f \leq 4\text{GHz}$	0.71 dB (k=2)
	$4\text{GHz} \leq f < 12.75\text{GHz}$	0.74 dB (k=2)
	$12.75\text{GHz} \leq f < 26\text{GHz}$	2.70 dB (k=2)

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.

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**Test Method:**

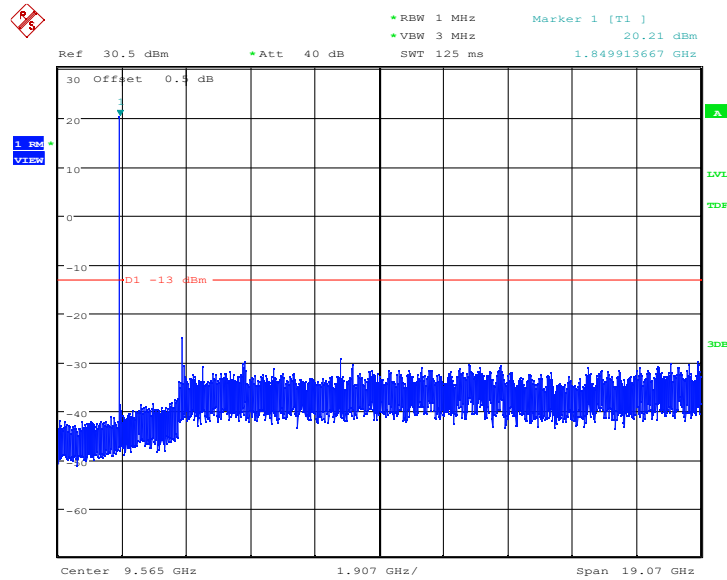
The RF output of the transmitter was connected to a spectrum analyzer through a calibrated coaxial cable. Sufficient scans were taken to show the out-of-Band emissions, if any, up to 10th harmonic. The EUT was scanned for spurious emissions from 30MHz to 20GHz with sufficient Bandwidth and video resolution. The spectrum analyzer was set to Maximum hold mode to ensure that the worst-case emissions were captured.

Note: --

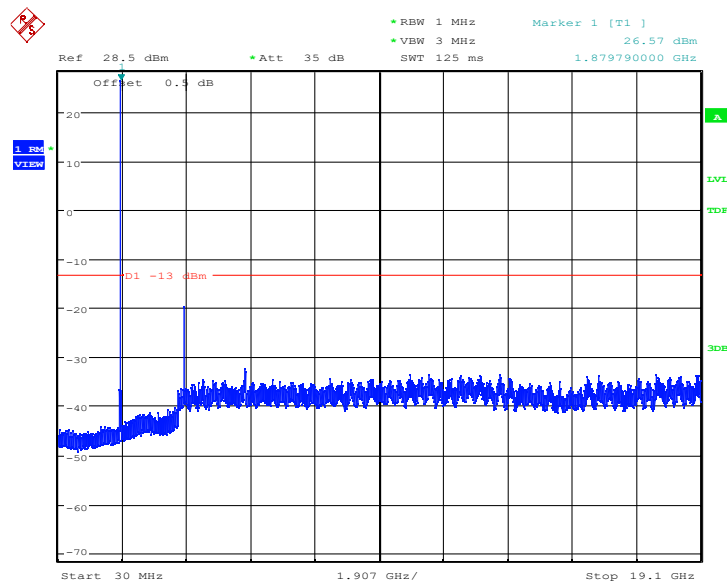
6.5.1 Conducted Spurious Emission Results

LTE band 2

NOTE: peak above the limit line is the carrier frequency.



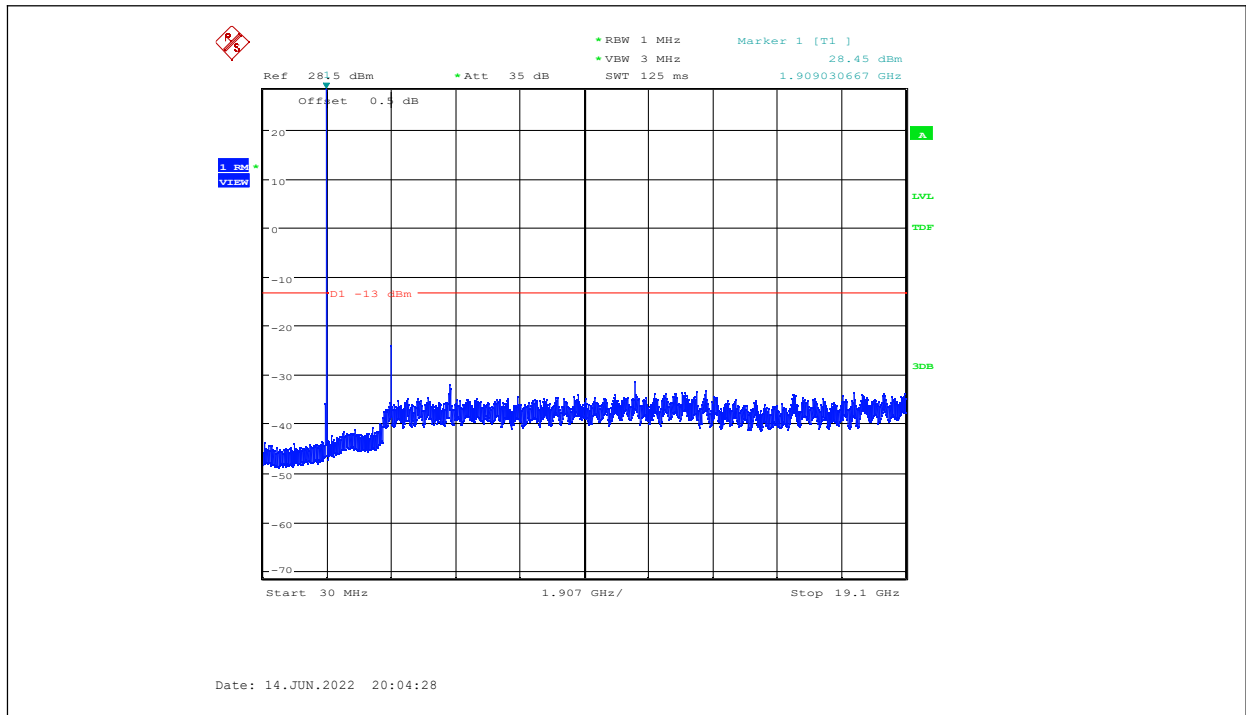
Date: 20.JUN.2022 04:40:14



Date: 20.JUN.2022 04:21:38

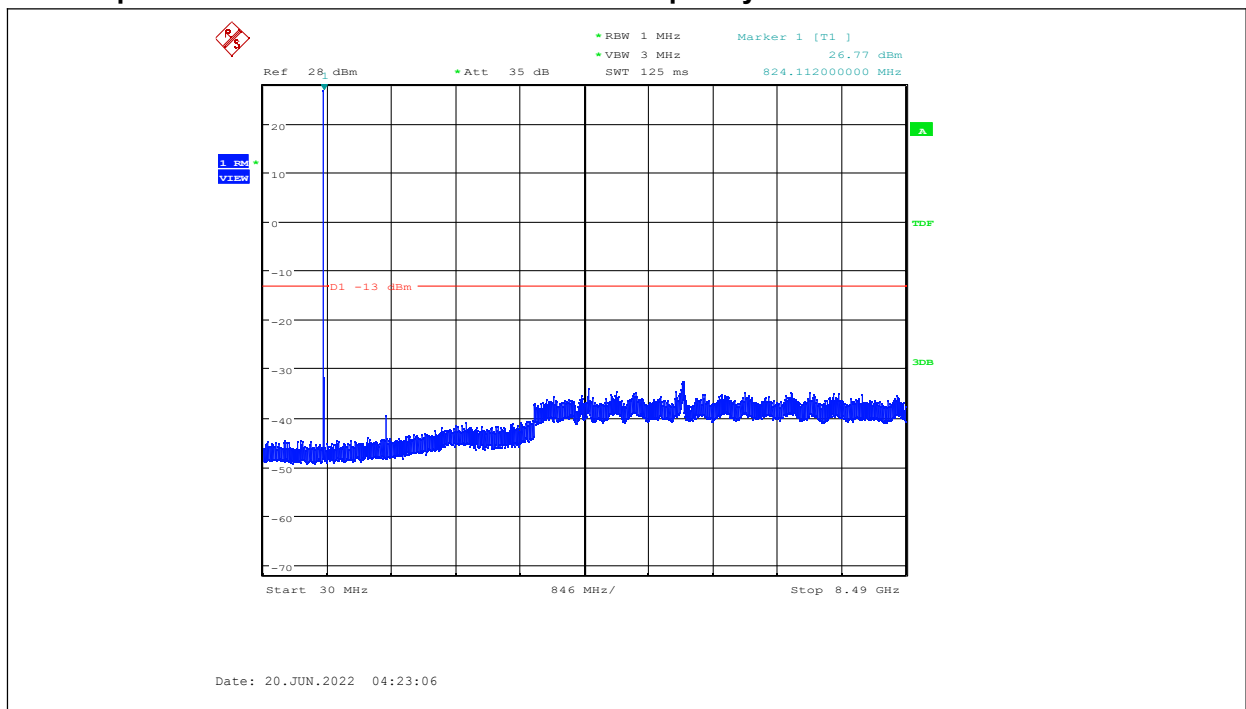
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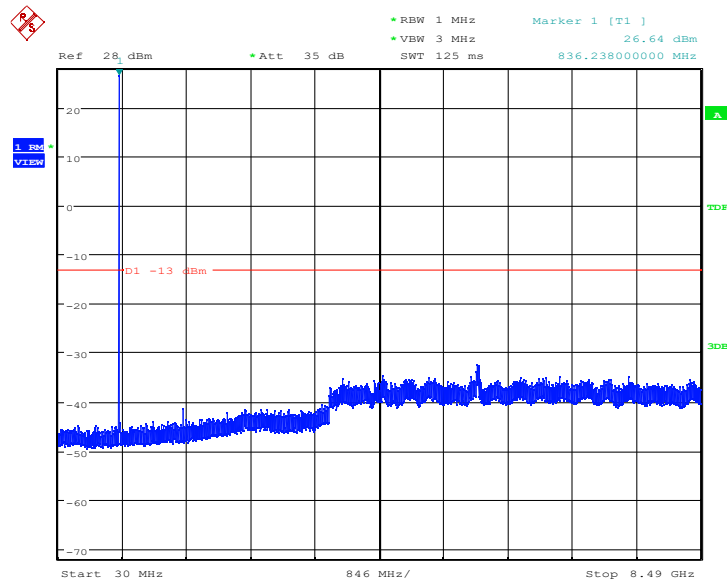
LTE band 5

NOTE: peak above the limit line is the carrier frequency.

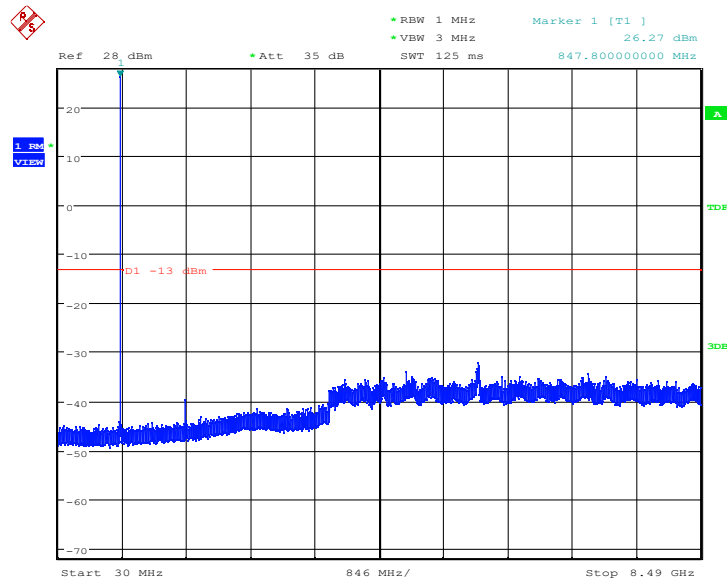


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Date: 20.JUN.2022 04:23:47



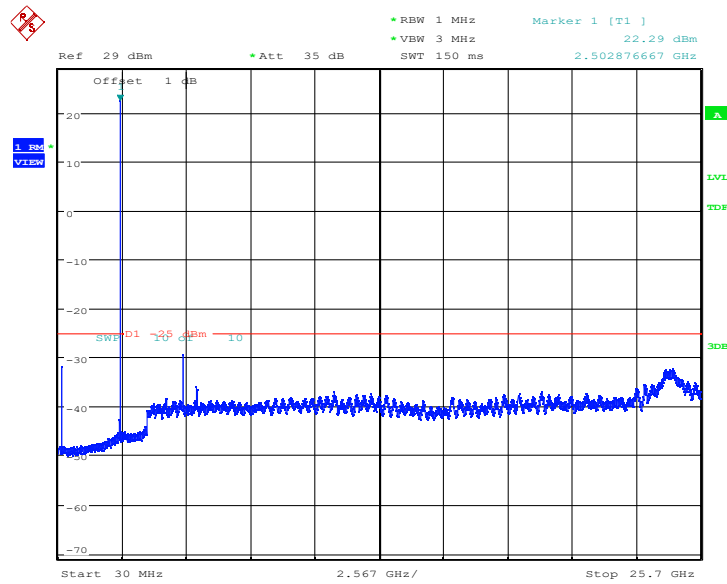
Date: 20.JUN.2022 04:24:30

LTE band 7

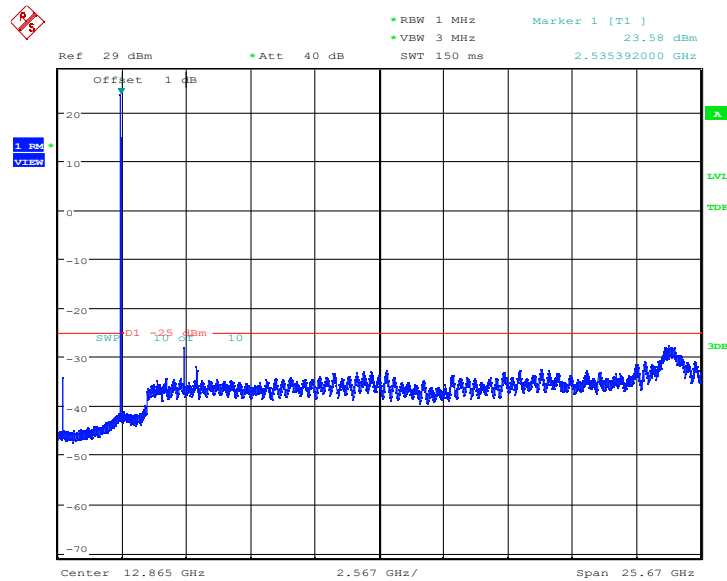
NOTE: peak above the limit line is the carrier frequency.

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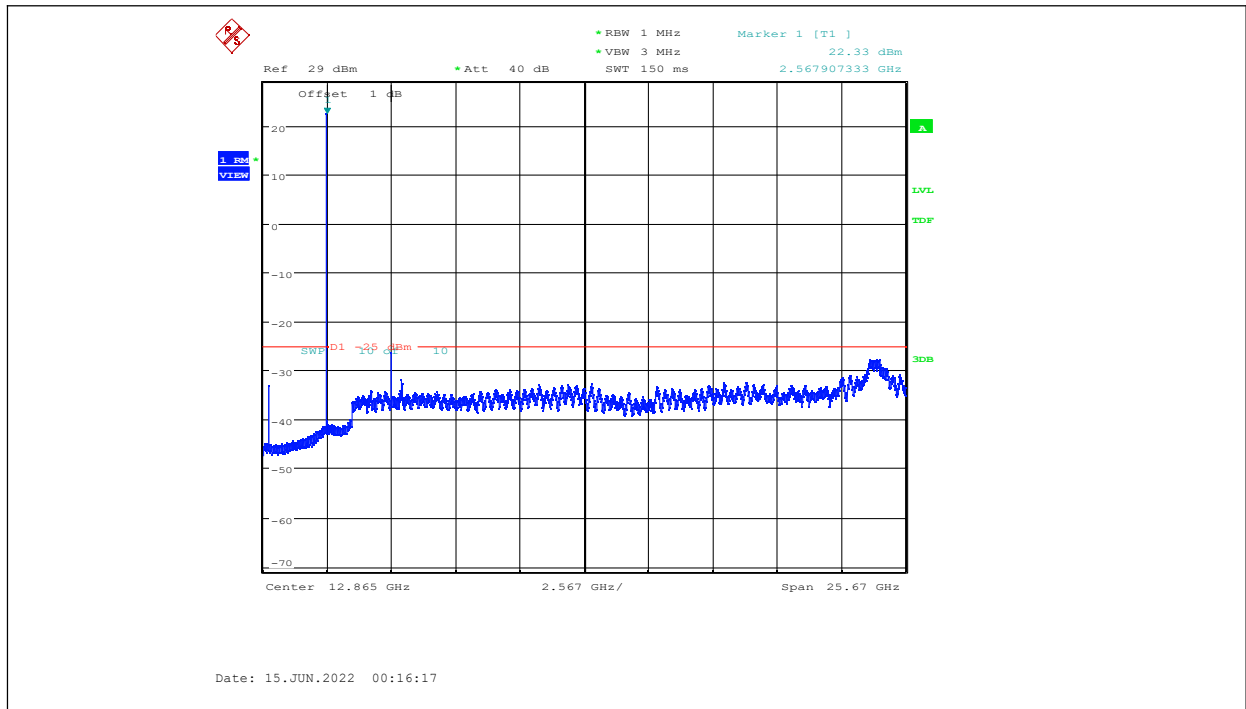
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Date: 20.JUN.2022 04:41:45

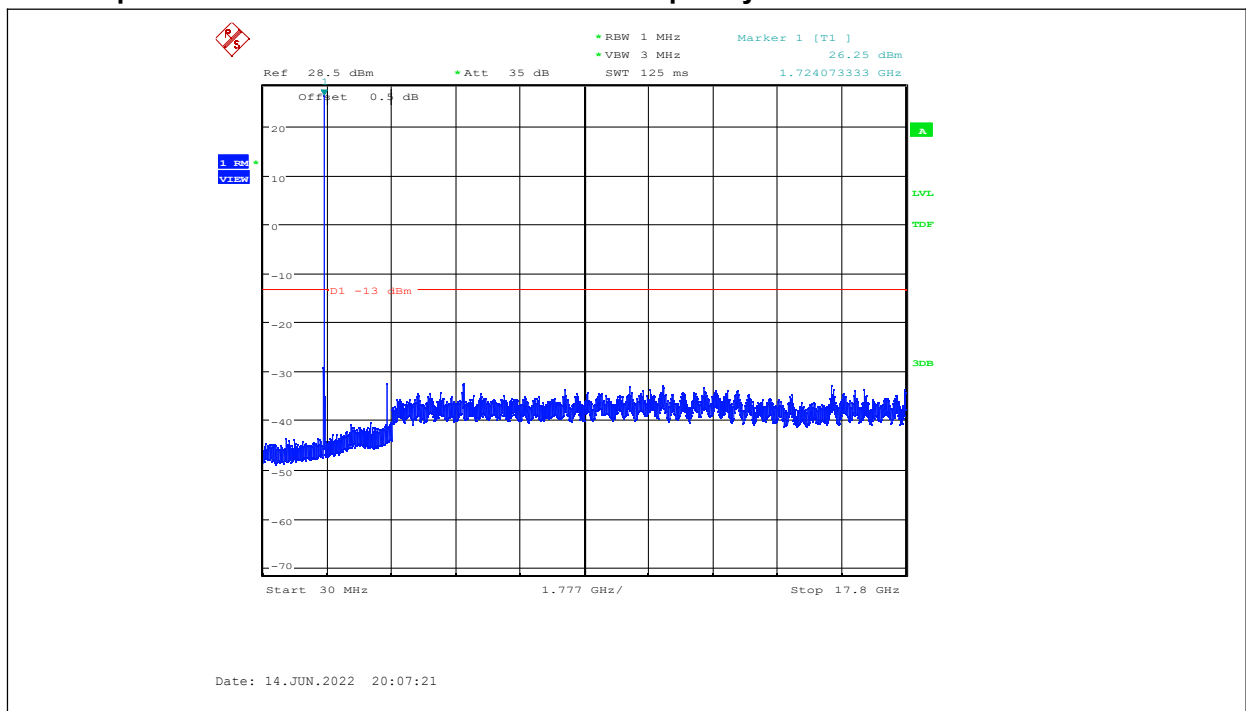
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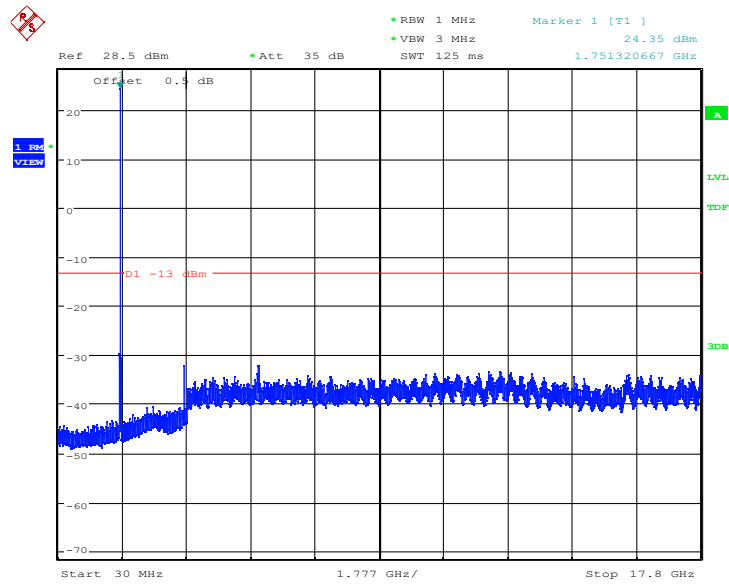
LTE band 66

NOTE: peak above the limit line is the carrier frequency.

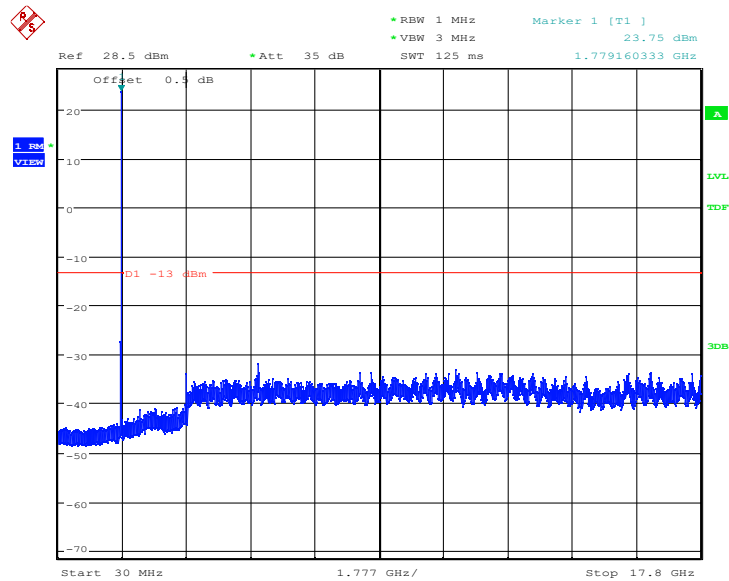


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Date: 20.JUN.2022 04:30:13



Date: 20.JUN.2022 04:30:58

6.6. Radiated Spurious Emission

Specifications:	FCC Part 2.1051, 2.1053, 24.238, 22.917, 27.53
DUT Serial Number:	864788050032635
Test conditions:	Ambient Temperature:24.1°C-28.8°C Relative Humidity:47%-59% Air pressure: 96.0-97.6kPa
Test Results:	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(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;

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

According to Part 90.691:

(a) Out-of-band emission requirement shall apply only to the "outer" channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows:

(1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $116 \log_{10}(f/6.1)$ decibels or $50 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

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(2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $43 + 10\log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

(b) When an emission outside of the authorized bandwidth causes harmful interference, the Commission may, at its discretion, require greater attenuation than specified in this section

Limits for Radiated spurious emissions(UE)	
Frequency range	Limit Level /Resolution Bandwidth
30 MHz to 20000 MHz	-13dBm/1MHz

Measurement Uncertainty:

Item	Uncertainty
Expanded Uncertainty (30MHz-150MHz)	5.15 dB (k=2)
Expanded Uncertainty (150MHz-1GHz)	4.09dB (k=2)
Expanded Uncertainty (1GHz-3GHz)	2.92dB (k=2)
Expanded Uncertainty (3GHz-6GHz)	2.93dB (k=2)
Expanded Uncertainty (3GHz-12.75GHz)	2.69dB (k=2)

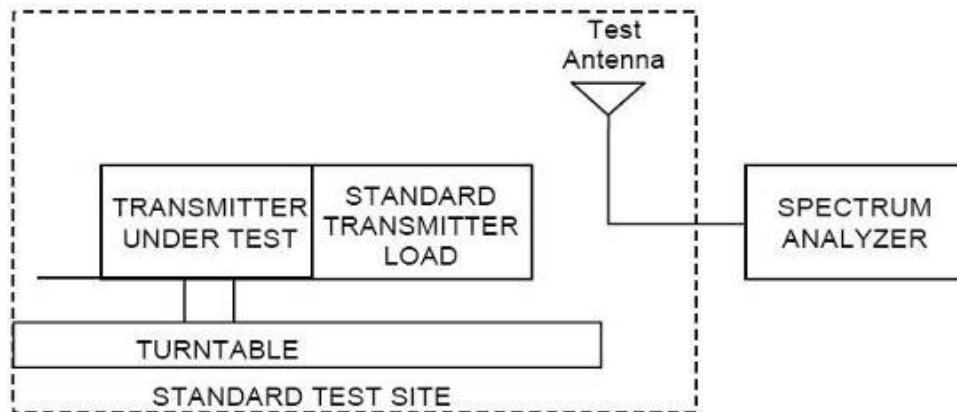
Test Setup:

The EUT was placed in an anechoic chamber. The Wireless Communications Test Set was used to set the TX channel and power level and modulate the TX signal with different bit patterns.

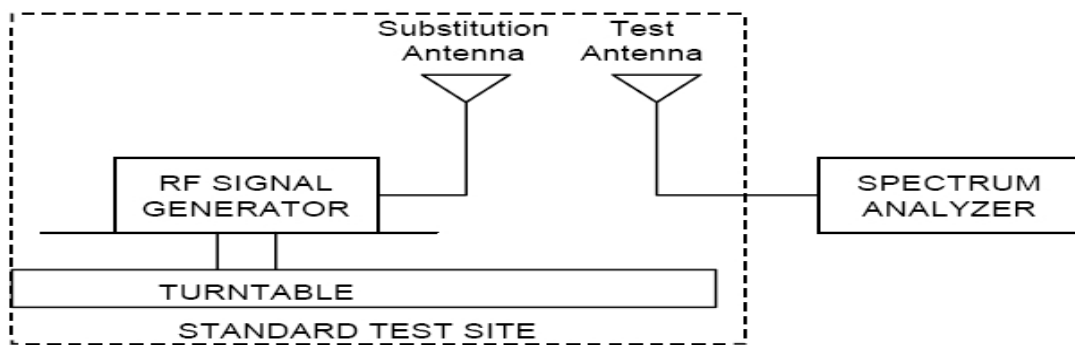
Test Method:

The measurement method is substitution method accordance with section 2.2.12 of ANSI/TIA-603-E: Land Mobile FM or PM Communications Equipment Measurement and Performance Standards.

(a) Connect the equipment as illustrated and measure the spurious emissions as the method as above. The distance from the device to the antenna is 3 m .



(b) Reconnect the equipment as illustrated.



(c) Remove the transmitter and replace it with a substitution antenna. The center of the substitution antenna should be approximately at the same location as the center of the transmitter.

(d) Feed the substitution antenna at the transmitter end with a signal generator connected to the antenna by means of a non-radiating cable. With the antennas at both ends horizontally polarized, and with the signal generator tuned to a particular spurious frequency, raise and lower the test antenna to obtain a maximum reading at the spectrum analyzer. Adjust the level of the signal generator output until the previously recorded maximum reading for this set of conditions is obtained. This should be done carefully repeating the adjustment of the test antenna and generator output.

(e) Repeat step d) with both antennas vertically polarized for each spurious frequency.

(f) Calculate power in dBm into a reference ideal half-wave dipole antenna by reducing the readings obtained in steps d) and e) by the power loss in the cable between the generator and the antenna, and further corrected for the gain of the substitution antenna used relative to an ideal half-wave dipole antenna by the following formula:

$$P_d(\text{dBm}) = P_g(\text{dBm}) - \text{cable loss (dB)} + \text{antenna gain (dB)}$$

where:

P_d is the dipole equivalent power and P_g is the generator output power into the substitution antenna.

Note: The evaluation of radiated spurious emission under the simultaneous transmission of WWAN .

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6.6.1 LTE Radiated Spurious Emission Results

LTE B2Radiated Spurious Emission Results

Test Data (20 MHz bandwidth 18700 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3720.0	-73.6	1.6	9.0	-66.2	V
5580.0	-71.4	2.2	10.3	-63.3	V
7440.0	-70.2	2.5	11.7	-61.0	V
9300.0	-68.6	3.1	12.4	-59.3	V
11160.0	-69.1	3.6	13.5	-59.2	V
13020.0	-68.4	3.7	14.1	-58.0	V

Test Data (20MHz bandwidth 18900 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3760.0	-72.4	1.6	9.3	-64.7	V
5640.0	-70.5	2.3	10.3	-62.5	V
7520.0	-69.7	2.5	11.7	-60.5	V
9400.0	-67.6	3.3	12.4	-58.5	V
11280.0	-68.4	3.3	13.8	-57.9	V
13160.0	-67.5	4.1	14.1	-57.5	V

Test Data (20MHz bandwidth 19099 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3799.8	-71.8	1.6	9.3	-64.1	V
5699.7	-71.0	2.2	10.3	-62.9	V
7597.6	-70.4	2.6	11.7	-61.3	V

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9497.0	-68.9	3.2	12.4	-59.7	V
11396.4	-69.1	3.7	13.8	-59.0	V
13295.8	-68.3	4.1	14.0	-58.4	V

6.6.2 LTE B5Radiated Spurious Emission Results

Test Data (1.4MHz bandwidth 20407 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1649.4	-72.7	1.0	8.0	-65.7	H
2474.1	-67.1	1.3	9.1	-59.3	H
3298.8	-74.5	1.5	9.0	-67.0	V
4124.0	-72.0	1.7	9.3	-64.4	V
4948.2	-70.8	1.9	9.8	-62.9	V
5772.9	-72.1	2.2	10.9	-63.4	V

Test Data (1.4MHz bandwidth 20525 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1673.0	-72.3	1.0	8.0	-65.3	H
2509.5	-67.4	1.3	9.1	-59.6	V
3346.0	-74.5	1.5	9.0	-67.0	V
4182.5	-71.0	1.7	9.3	-63.4	V
5019.0	-70.7	2.0	9.8	-62.9	V
5855.5	-71.1	2.2	10.9	-62.4	V

Test Data (1.4MHz bandwidth 20642 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
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1696.4	-72.1	1.0	8.0	-65.1	V
2544.6	-66.3	1.3	9.1	-58.5	V
3392.8	-74.8	1.5	9.0	-67.3	V
4241.0	-70.9	1.8	9.3	-63.4	V
5089.2	-71.5	2.0	9.8	-63.7	V
5937.4	-71.4	2.2	10.9	-62.7	V

6.6.2 LTE B7 Radiated Spurious Emission Results

Test Data (15MHz bandwidth 20825 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
5015.0	-70.4	2.0	9.8	-62.6	V
7522.5	-69.1	2.5	11.7	-59.9	V
10030.0	-68.4	3.1	12.8	-58.7	V
12537.5	-68.9	3.6	14.1	-58.4	V
15045.0	-65.7	4.7	12.4	-58.0	V
17552.5	-65.0	5.0	12.0	-58.0	V

Test Data (15MHz bandwidth 21100 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
5070.0	-71.3	2.0	9.8	-63.5	V
7605.0	-70.1	2.5	11.7	-60.9	V
10140.0	-67.3	3.4	12.8	-57.9	V
12675.0	-68.8	3.8	14.1	-58.5	V
15210.0	-66.4	4.2	12.4	-58.2	V
17745.0	-64.6	5.6	12.0	-58.2	V

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Test Data (15MHz bandwidth 21374 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
5124.8	-71.1	2.0	9.8	-63.3	V
7687.2	-69.8	2.6	11.7	-60.7	V
10249.6	-69.2	3.6	12.8	-60.0	V
12812.0	-67.9	4.3	14.1	-58.1	V
15374.4	-65.7	4.8	12.4	-58.1	V
17936.8	-64.4	4.7	11.0	-58.1	V

LTE B66 Radiated Spurious Emission Results

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	-74.5	1.5	9.0	-67.0	V
5160.0	-71.2	2.0	9.8	-63.4	V
6880.0	-70.1	2.5	11.4	-61.2	V
8600.0	-69.3	3.0	12.2	-60.1	V
10320.0	-70.4	3.5	13.2	-60.7	V
12040.0	-68.7	3.7	14.0	-58.4	V

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	-74.3	1.5	9.0	-66.8	V
5235.0	-71.1	2.0	9.8	-63.3	V
6980.0	-70.8	2.5	11.4	-61.9	V

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8725.0	-68.0	3.0	12.2	-58.8	V
10470.0	-69.3	3.5	13.2	-59.6	V
12215.0	-69.1	3.6	14.0	-58.7	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	-73.4	1.5	9.0	-65.9	V
5309.7	-71.4	2.1	10.3	-63.2	V
7079.6	-70.7	2.5	11.4	-61.8	V
8849.5	-68.8	3.0	12.1	-59.7	V
10619.4	-69.4	3.5	13.2	-59.7	V
12389.3	-68.6	3.6	14.1	-58.1	V

6.7. Band Edge

Specifications:	FCC Part 2.1051, 24.238, 2.1053, 22.917, 27.53
DUT Serial Number:	864788050910772
Test conditions:	Ambient Temperature:15°C-35°C Relative Humidity:30%-60% Air pressure: 86-106kPa
Test Results:	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.

Measurement Uncertainty:

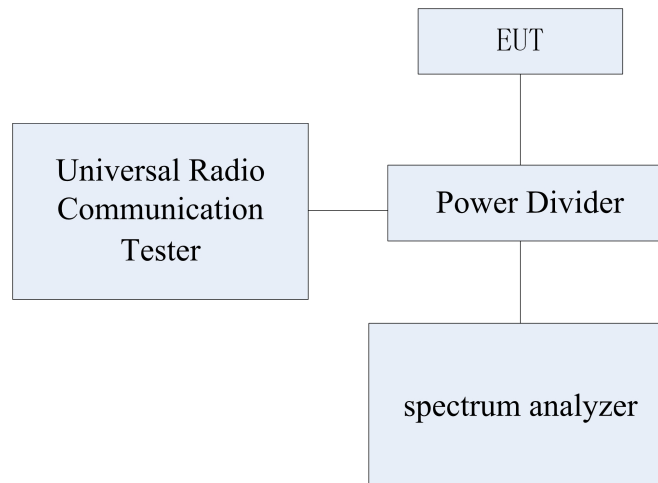
Item	Uncertainty	
Expanded Uncertainty	$9\text{kHz} < f \leq 4\text{GHz}$	0.71 dB (k=2)
	$4\text{GHz} \leq f < 12.75\text{GHz}$	0.74 dB (k=2)
	$12.75\text{GHz} \leq f < 26\text{GHz}$	2.70 dB (k=2)

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.

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**Test Method:**

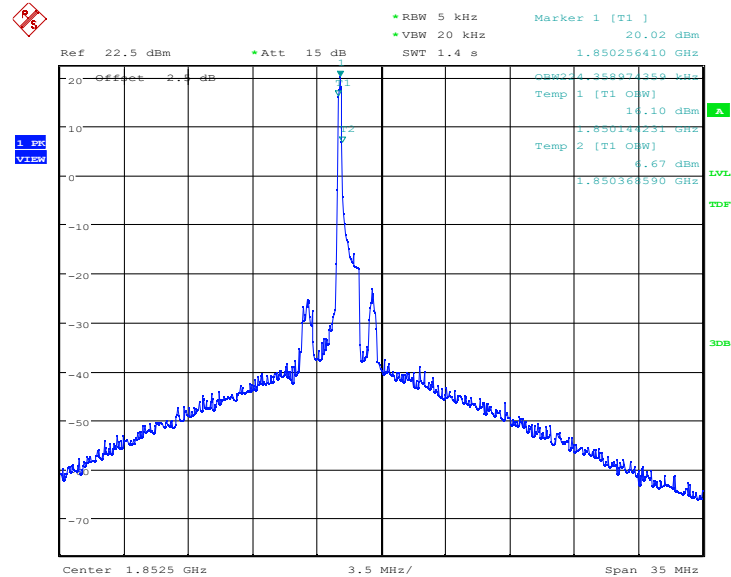
- 1) The EUT was coupled to the EMI test receiver analyzer mode and the base station simulator through a power divider. The loss of the cables the test system is calibrated to correct the readings.
- 2) The spectrum analyzer was set to Average Detector function and Maximum hold mode.
- 3) The resolution 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 Band Edge Results

LTE band 2

OBW: 1RB-LOW_offset

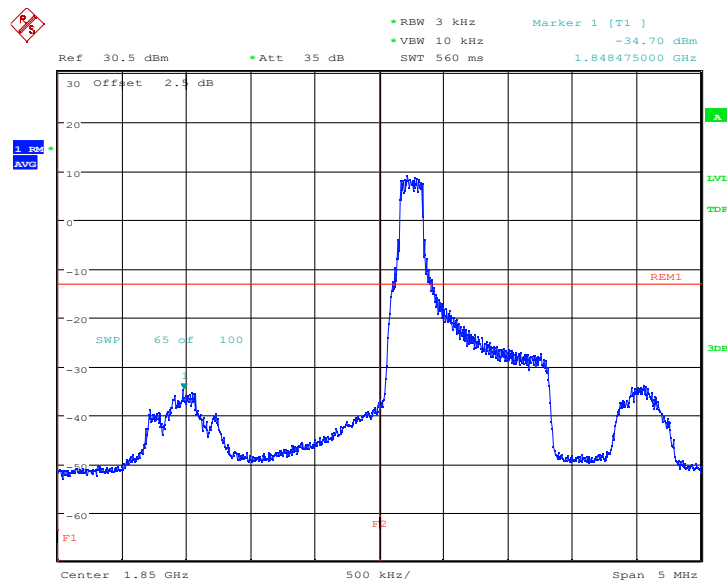


Date: 14.JUN.2022 00:31:56

LOW BAND EDGE BLOCK-1RB-1.4M_offset

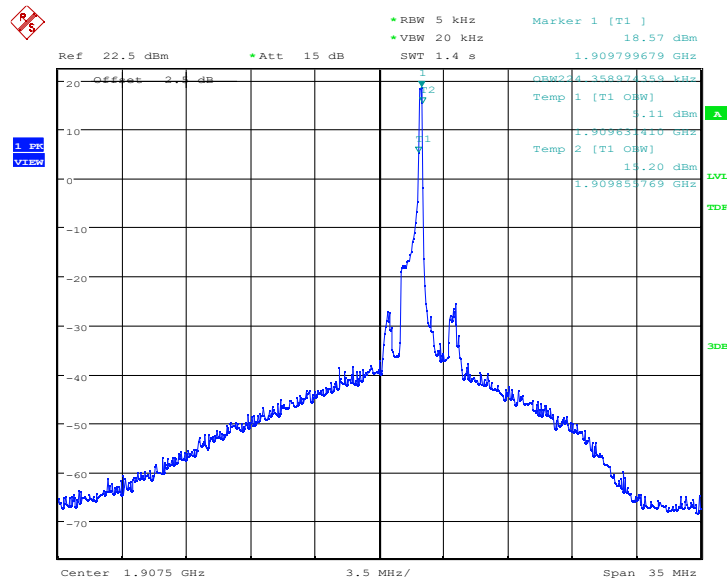
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Date: 14.JUN.2022 00:33:33

OBW: 1RB-HIGH_offset

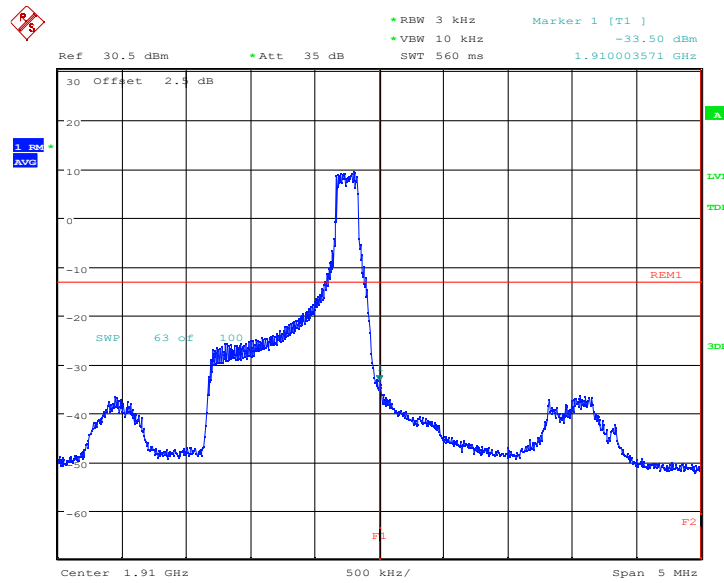


Date: 14.JUN.2022 00:33:59

HIGH BAND EDGE BLOCK-1RB-1.4M_offset

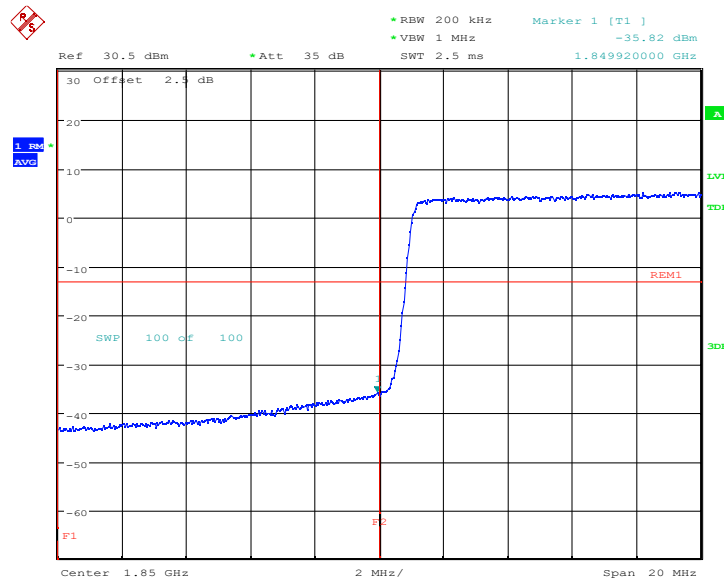
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Date: 14.JUN.2022 00:35:36

LOW BAND EDGE BLOCK-1RB-20M_offset

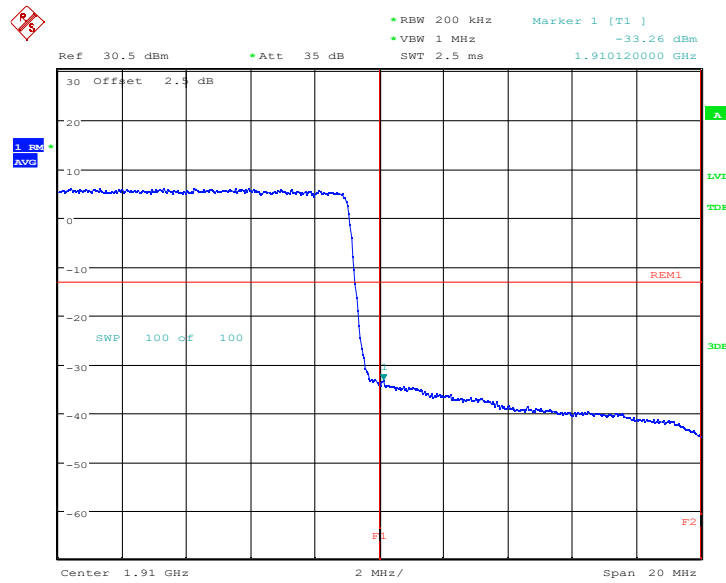


Date: 14.JUN.2022 00:36:31

HIGH BAND EDGE BLOCK-1RB-20M_offset

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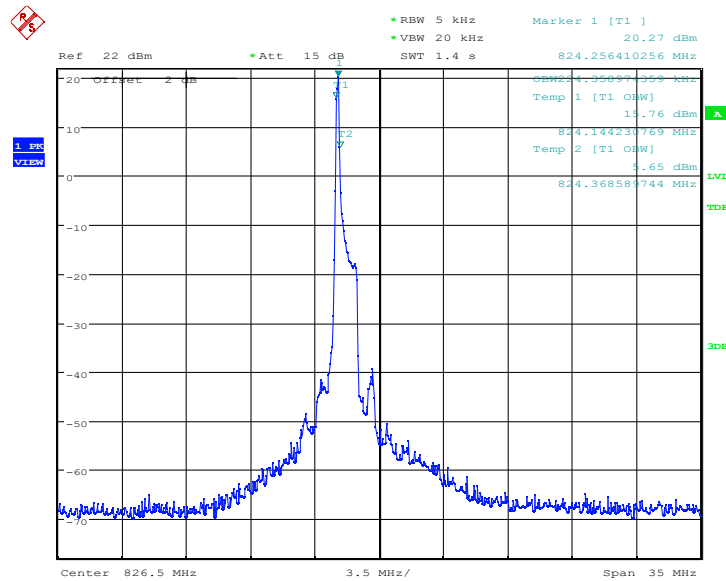
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Date: 14.JUN.2022 00:37:23

LTE band 5

OBW: 1RB-LOW_offset

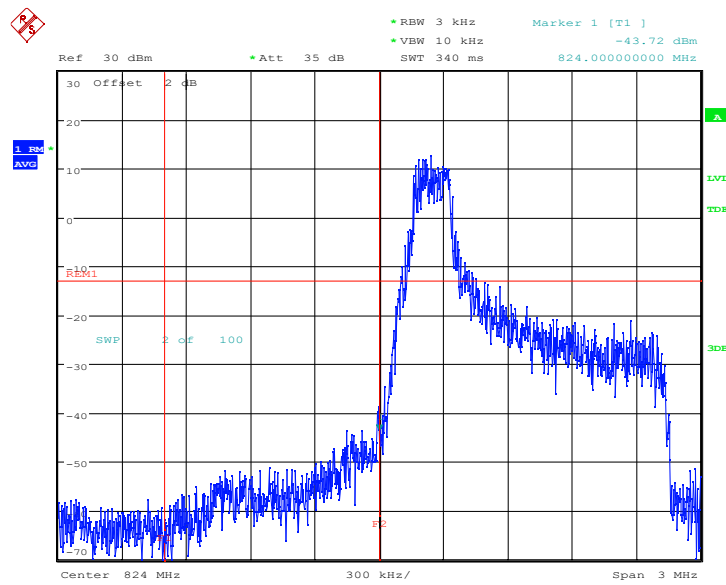


Date: 14.JUN.2022 00:38:32

LOW BAND EDGE BLOCK-1RB-1.4M_offset

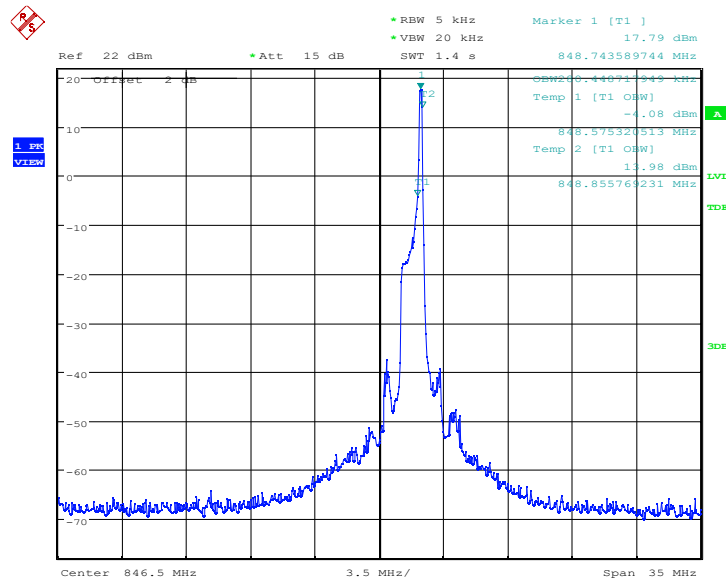
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Date: 14.JUN.2022 00:39:38

OBW: 1RB-HIGH_offset

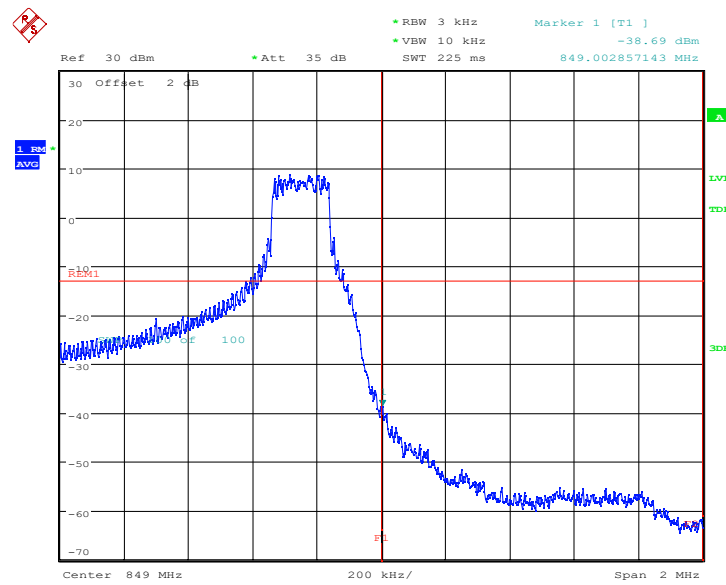


Date: 14.JUN.2022 00:40:04

HIGH BAND EDGE BLOCK-1RB-1.4M_offset

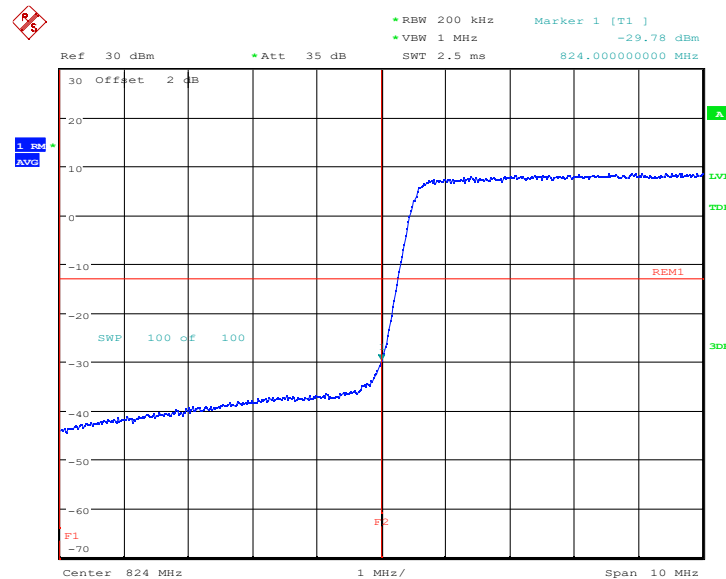
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Tel: 0086-23-88069965 FAX:0086-23-88608777



Date: 14.JUN.2022 00:41:06

LOW BAND EDGE BLOCK-1RB-10M_offset



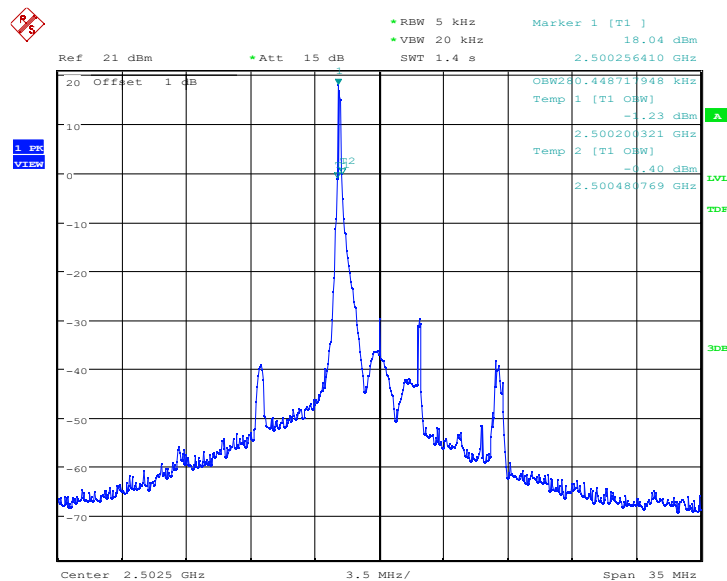
Date: 14.JUN.2022 00:42:01

HIGH BAND EDGE BLOCK-1RB-10M_offset

Chongqing Academy of Information and Communication Technology

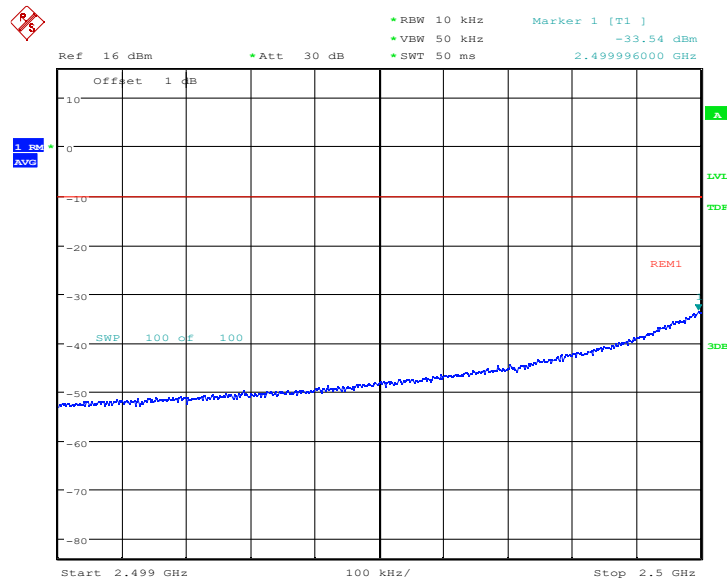
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

OBW: 1RB-LOW_offset



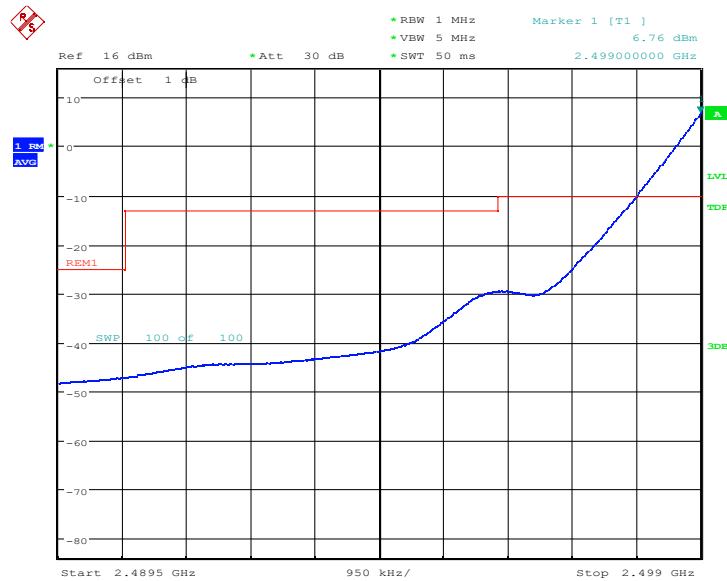
LOW BAND EDGE BLOCK-1RB-5M_offset

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Date: 14.JUN.2022 00:44:09

LOW BAND EDGE BLOCK-1RB-5M_offset

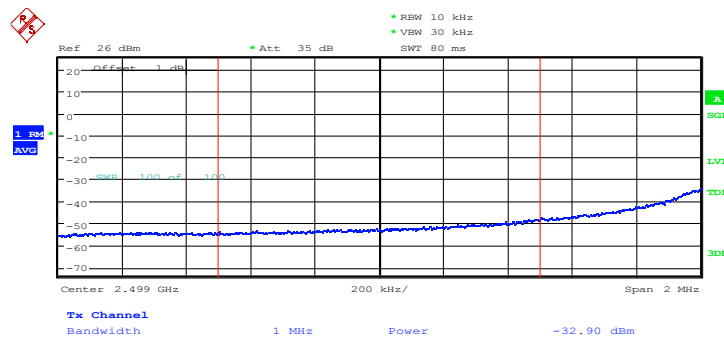


Date: 14.JUN.2022 00:44:57

Channal Power

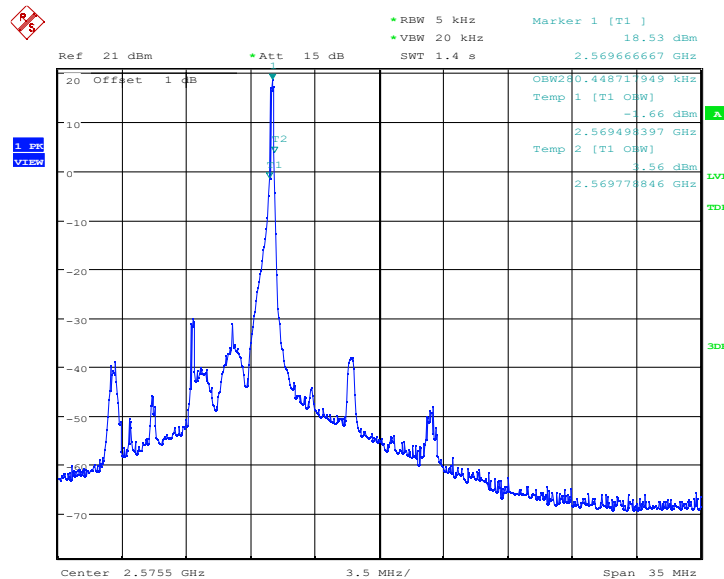
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Date: 14.JUN.2022 00:45:30

OBW: 1RB-HIGH_offset



Date: 14.JUN.2022 00:45:56

HIGH BAND EDGE BLOCK-1RB-5M_offset

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Ref 16 dBm • Att 30 dB • RBW 10 kHz • VBW 50 kHz • SWT 50 ms Marker 1 [T1] -34.00 dBm 2.570002000 GHz

Offset 1 dB

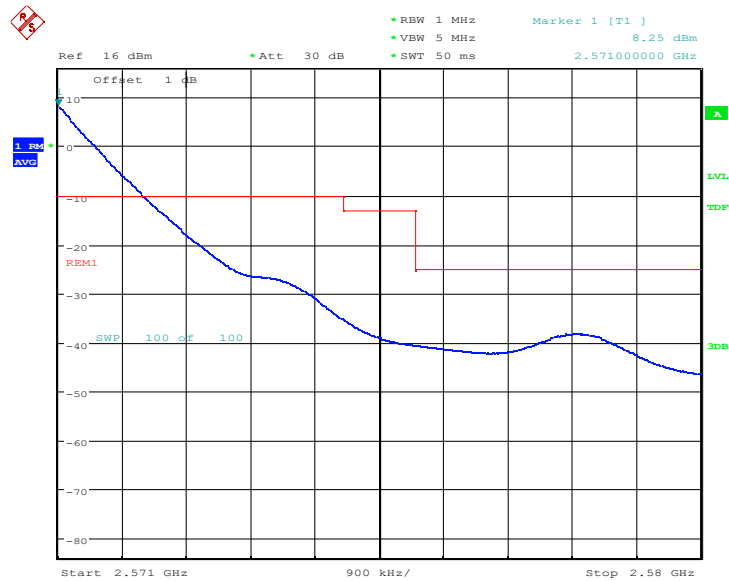
1.500
AVG

REM1

100 off 100

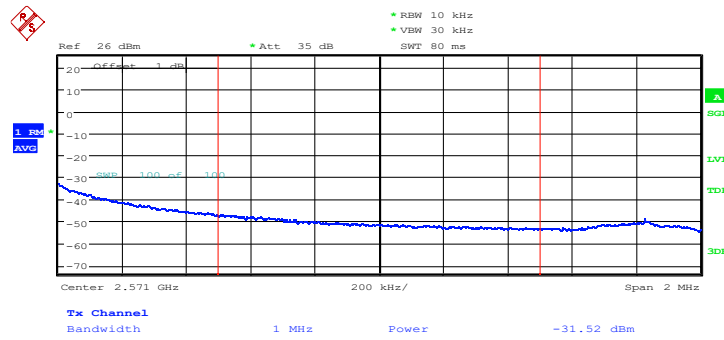
Start 2.57 GHz 100 kHz/ Stop 2.571 GHz

HIGH BAND EDGE BLOCK-1RB-5M_offset



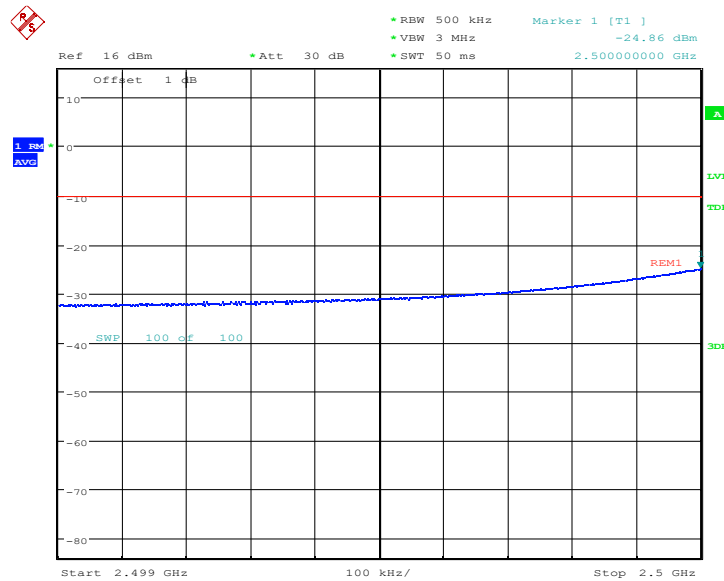
Channal Power

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Date: 14.JUN.2022 00:48:06

LOW BAND EDGE BLOCK-1RB-20M_offset



Date: 14.JUN.2022 00:49:05

LOW BAND EDGE BLOCK-1RB-20M_offset

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Ref 16 dBm Att 30 dB RBW 1 MHz VBW 5 MHz SWT 50 ms Marker 1 [T1] -23.50 dBm 2.499000000 GHz

Offset 1 dB

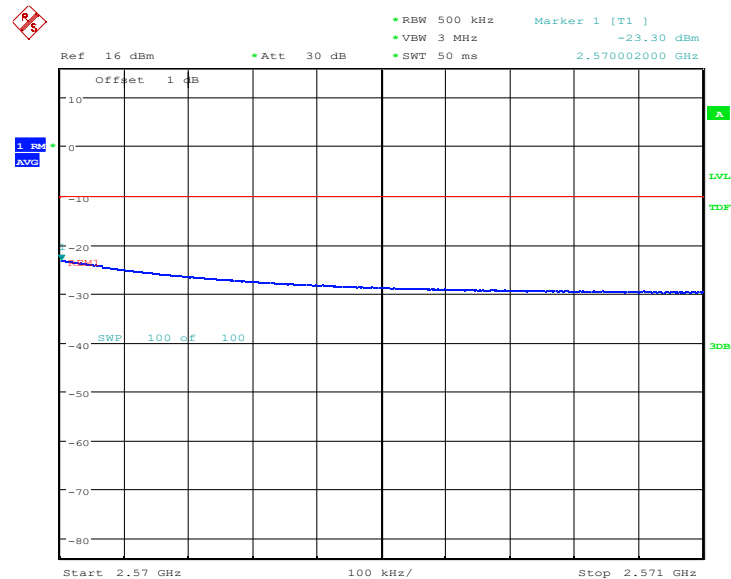
1 sec AVG

REM1

SWP 100 of 100

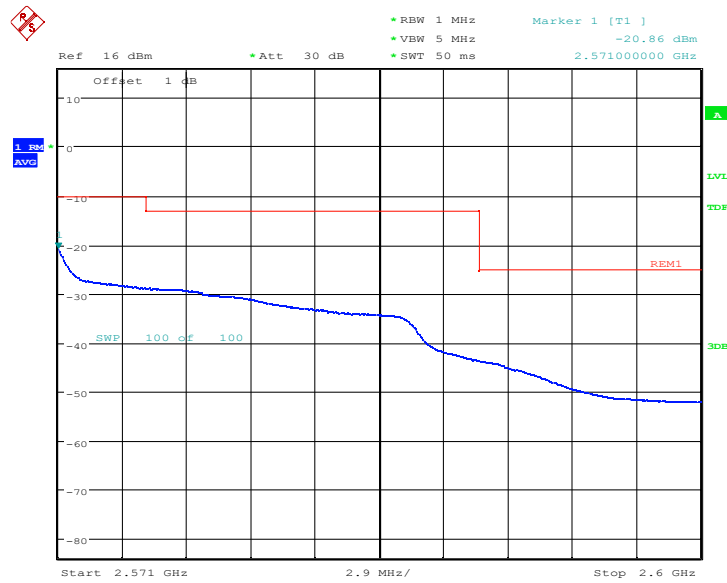
Start 2.4895 GHz 950 kHz/ Stop 2.499 GHz

HIGH BAND EDGE BLOCK-1RB-20M_offset



HIGH BAND EDGE BLOCK-1RB-20M_offset

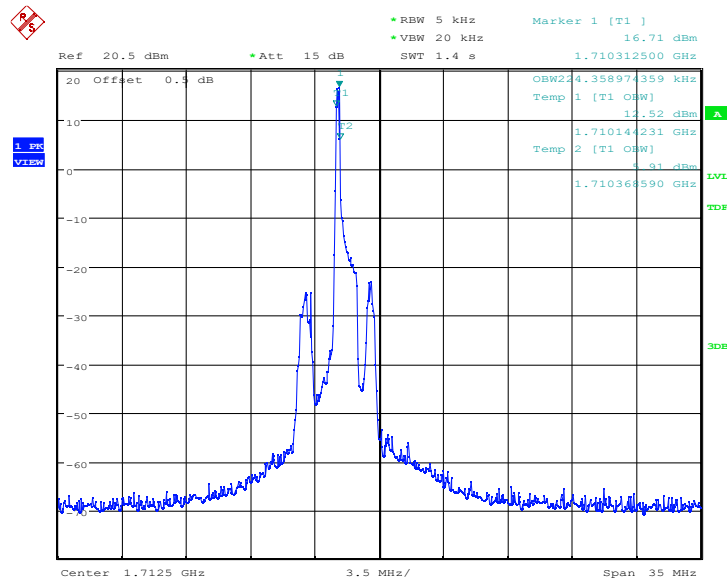
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Date: 14.JUN.2022 00:51:35

LTE band 66

OBW: 1RB-LOW_offset



Date: 14.JUN.2022 00:52:07

LOW BAND EDGE BLOCK-1RB-1.4M_offset

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Offset 0.5 dB

Ref 28.5 dBm Att 35 dB

RBW 3 kHz VBW 10 kHz SWT 560 ms

Marker 1 [T1] -35.32 dBm 1.708500000 GHz

1 3dB AVG

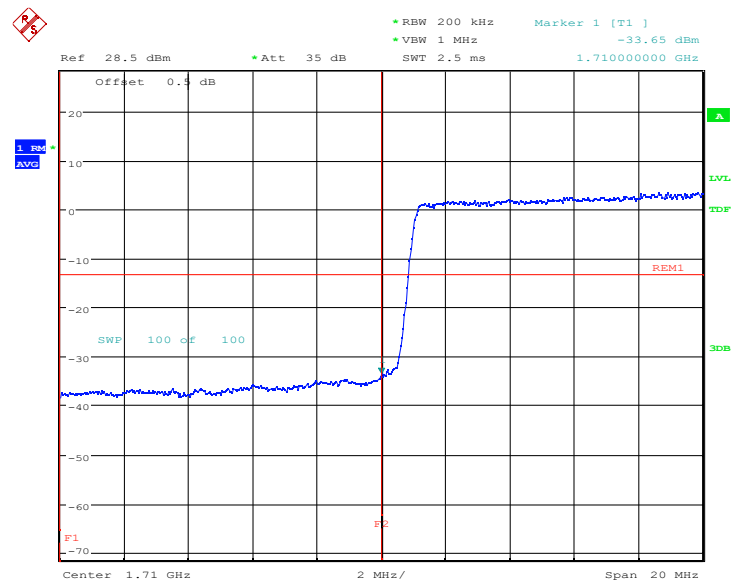
SWP 63 of 100

REM1

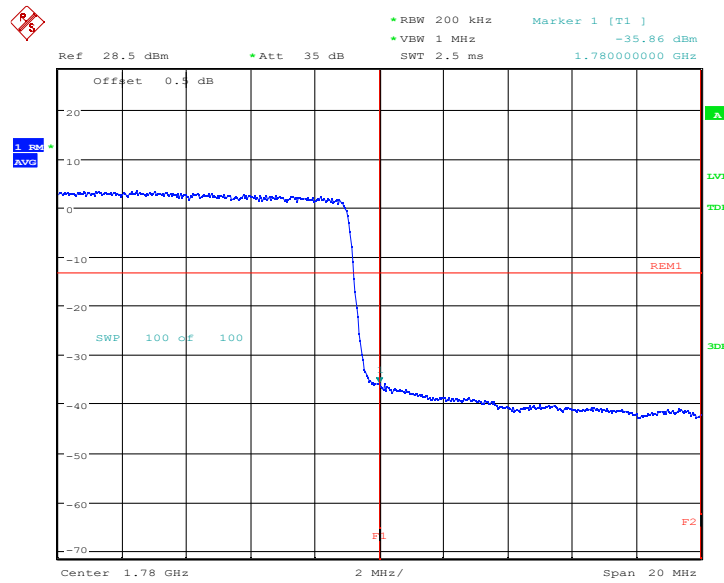
F2

Center 1.71 GHz Span 5 MHz

LOW BAND EDGE BLOCK-1RB-20M_offset

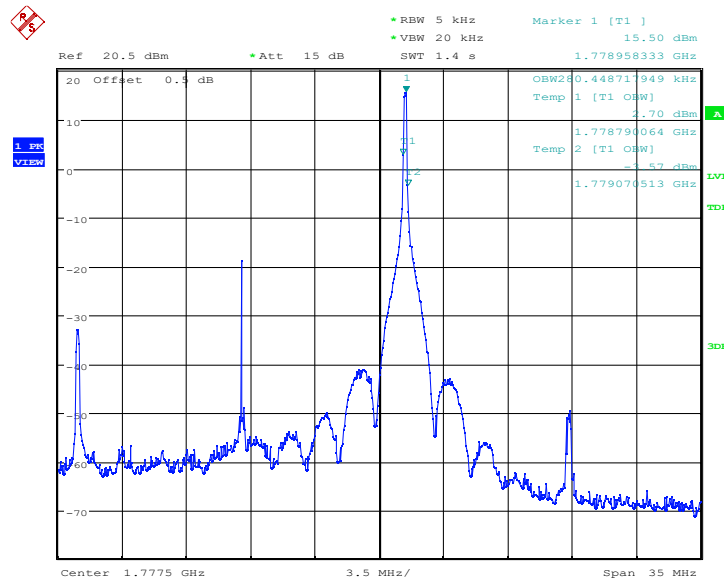


HIGH BAND EDGE BLOCK-1RB-20M_offset



Date: 14.JUN.2022 00:57:36

OBW: 1RB-HIGH_offset

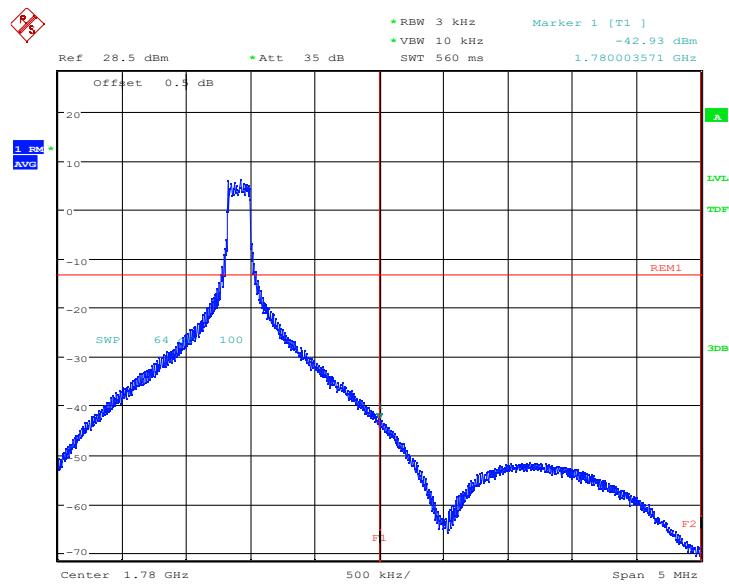


Date: 14.JUN.2022 00:54:16

HIGH BAND EDGE BLOCK-1RB-20M_offset

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Date: 14.JUN.2022 00:55:53

6.8. Frequency Stability

Specifications:	FCC Part 2.1055, 22.355, 24.235, 27.54
DUT Serial Number:	864788050910772
Test conditions:	Ambient Temperature:15°C-35°C Relative Humidity:30%-60% Air pressure: 86-106kPa
Test Results:	Pass

Limit	
Frequency deviation [ppm]	±2.5

Measurement Uncertainty:

Item	Uncertainty
Expanded Uncertainty	1.54 Hz (k=2)

Test Method

Frequency stability is a measure of the frequency drift due to temperature and supply voltage variations, with reference to the frequency measured at +20 °C and rated supply voltage. Two reference points are established at the applicable unwanted emissions limit using a RBW equal to the RBW required by the unwanted emissions specification of the applicable regulatory standard. These reference points measured using the lowest and highest channel of operation shall be identified as FL and FH respectively.

In order to measure the carrier frequency under the condition of AFC lock, it is necessary to make measurements with the EUT in a “call mode”. This is accomplished with the use of CMW500.

1. Measure the carrier frequency at room temperature.
2. Subject the EUT to overnight soak at -30°C.
3. With the EUT, powered via nominal voltage, connected to the CMW500, and in a simulated call on middle channel for each LTE band, measure the carrier frequency. These measurements should be made within 2 minutes of Powering up the EUT, to prevent significant self-warming.
4. Repeat the above measurements at 10°C increments from -30°C to +50°C. Allow at least 1.5 hours at each temperature, unpowered, before making measurements.
5. Re-measure carrier frequency at room temperature with nominal voltage. Vary supply voltage from minimum voltage to maximum voltage, in 0.1Volt increments re-measuring carrier frequency at each voltage. Pause at nominal voltage for 1.5 hours unpowered, to allow any self-heating to stabilize, before continuing.

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6. Subject the EUT to overnight soak at +50°C.
7. With the EUT, powered via nominal voltage, connected to the CMW500 and in a simulated call on the center channel, measure the carrier frequency. These measurements should be made within 2 minutes of Powering up the EUT, to prevent significant self-warming.
8. Repeat the above measurements at 10 °C increments from +50°C to -30°C. Allow at least 1.5 hours at each temperature, unpowered, before making measurements.
9. At all temperature levels hold the temperature to +/- 0.5°C during the measurement procedure.

6.8.1 Frequency Stability over Temperature Variation Results

LTE band 2, 20MHz bandwidth QPSK(worst case of all bandwidths)

Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
20	3.8	1850.780	1909.260		
50				-6.62	0.0035
40				-3.96	0.0021
30				-0.76	0.0004
10				2.83	0.0015
0				-1.70	0.0009
-10				-0.30	0.0002
-20				-4.82	0.0026
-30				-2.06	0.0011

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
3.2	20	1850.780	1909.260	-4.11	0.0022
4.6				2.53	0.0013

LTE band 5, 10MHz bandwidth QPSK(worst case of all bandwidths)

Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
20	3.8	824.410	848.590		
50				6.32	0.0076
40				8.80	0.0105
30				9.34	0.0112
10				4.68	0.0056
0				11.59	0.0139
-10				10.90	0.0130

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-20				9.66	0.0115
-30				6.11	0.0073

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
3.2	20	824.410	848.590	8.77	0.0105
4.6				13.53	0.0162

LTE band 7, 20MHz bandwidth QPSK(worst case of all bandwidths)
Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
20	3.8	2500.800	2569.200		
50				-1.70	0.0007
40				1.62	0.0006
30				6.60	0.0026
10				-2.02	0.0008
0				0.56	0.0002
-10				2.13	0.0008
-20				1.92	0.0008
-30				-0.40	0.0002

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
3.2	20	2500.800	2569.200	0.39	0.0002
4.6				4.51	0.0018

LTE band 66, 20MHz bandwidth QPSK(worst case of all bandwidths)
Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
20	3.8	1710.820	1779.210		
50				0.84	0.0005
40				0.09	0.0000
30				-5.32	0.0030
10				-0.32	0.0002
0				5.09	0.0029
-10				7.07	0.0040
-20				-1.23	0.0007
-30				6.32	0.0036

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
3.2	20	1710.820	1779.210	4.39	0.0025
4.6				3.00	0.0017

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6.9. Peak to Average Ratio

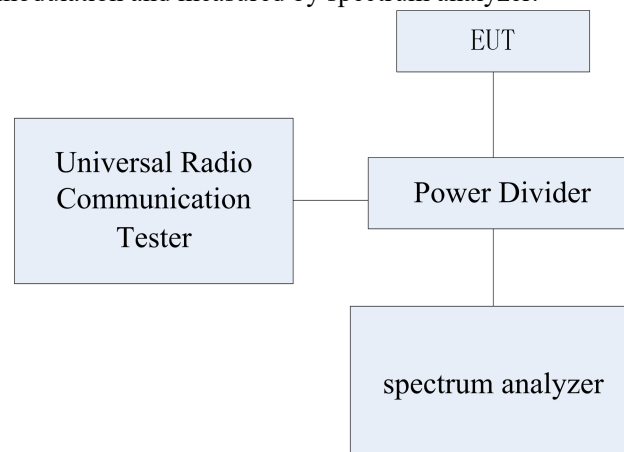
Specifications:	FCC Part 24.232, 27.50
DUT Serial Number:	864788050910772
Test conditions:	Ambient Temperature:15°C-35°C Relative Humidity:30%-60% Air pressure: 86-106kPa
Test Results:	Pass

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.



Measurement Uncertainty:

Item	Uncertainty
Expanded Uncertainty	0.62 dB (k=2)

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.

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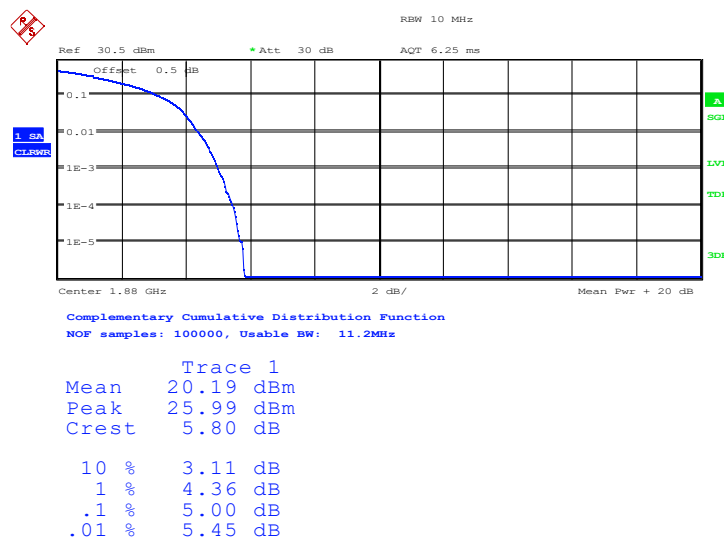
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6.9.1 Peak to Average Ratio Results

LTE Band 2, 20MHz

Frequency (MHz)	RB	PAPR (dB)	
		QPSK	16QAM
1880	100%,0	5.00	6.38
1860	100%,0	5.06	6.35
1900	100%,0	5.06	6.41

LTE band 2 , 20MHz Bandwidth,QPSK

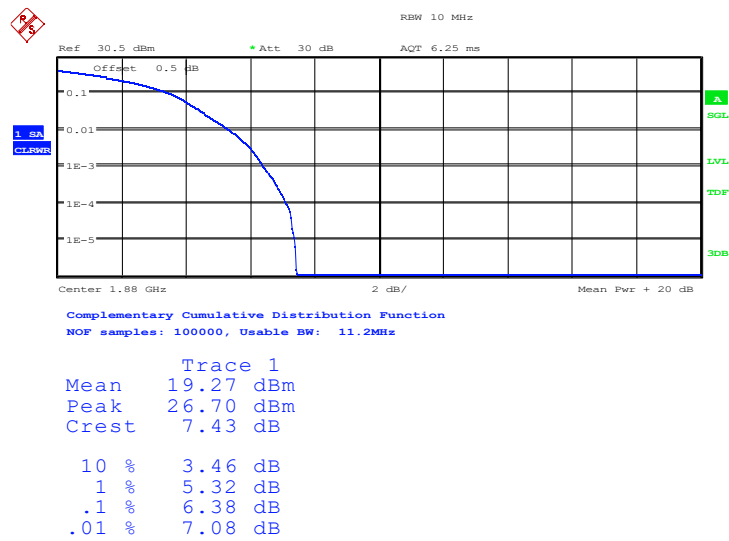


Date: 14.JUN.2022 20:08:08

LTE band 2 , 20MHz Bandwidth,16QAM

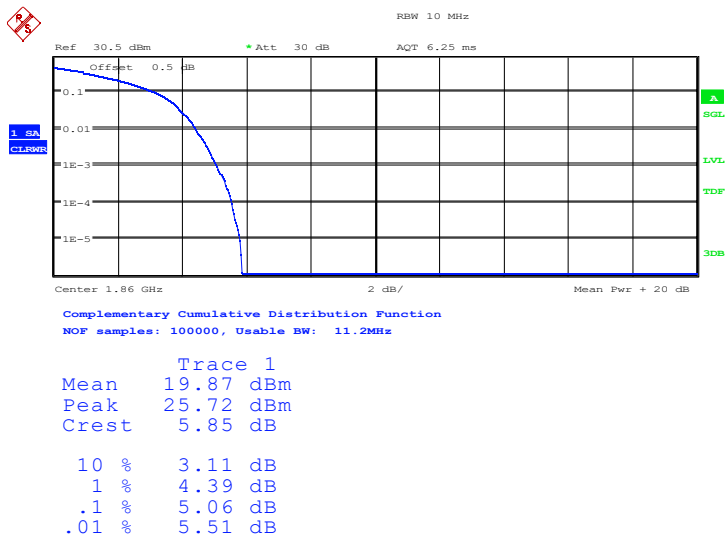
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Date: 14.JUN.2022 20:08:25

LTE band 2 , 20MHz Bandwidth,QPSK

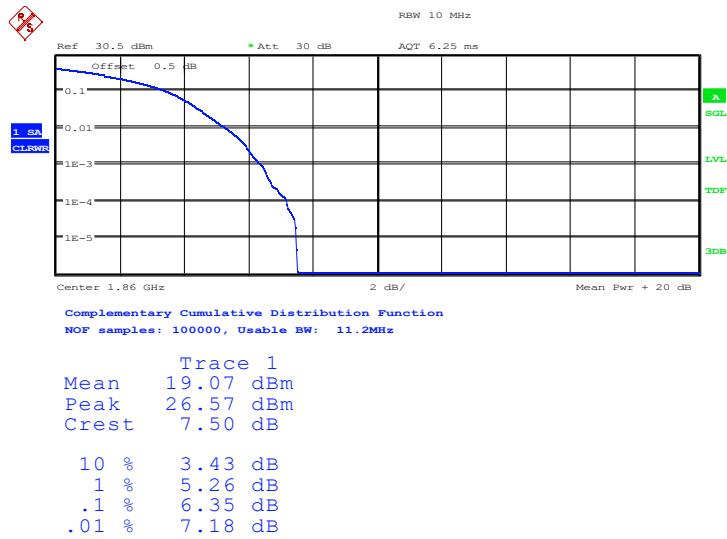


Date: 20.JUN.2022 04:31:56

LTE band 2 , 20MHz Bandwidth,16QAM

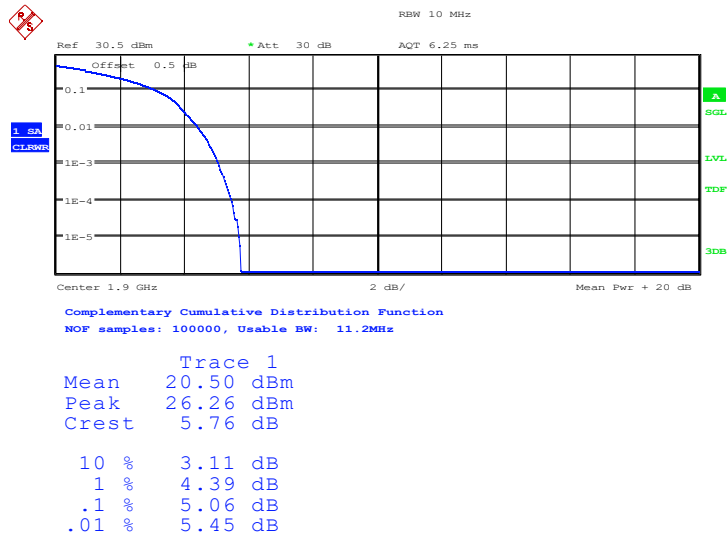
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Date: 20.JUN.2022 04:32:09

LTE band 2 , 20MHz Bandwidth,QPSK

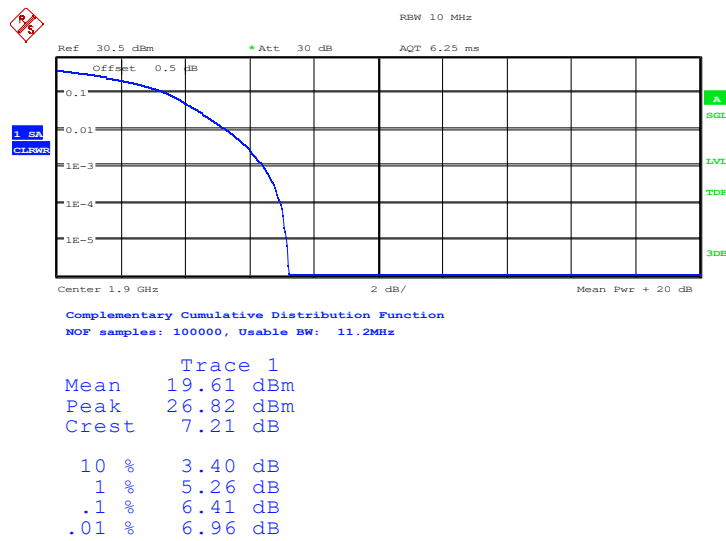


Date: 20.JUN.2022 04:32:26

LTE band 2 , 20MHz Bandwidth,16QAM

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Date: 20.JUN.2022 04:32:40

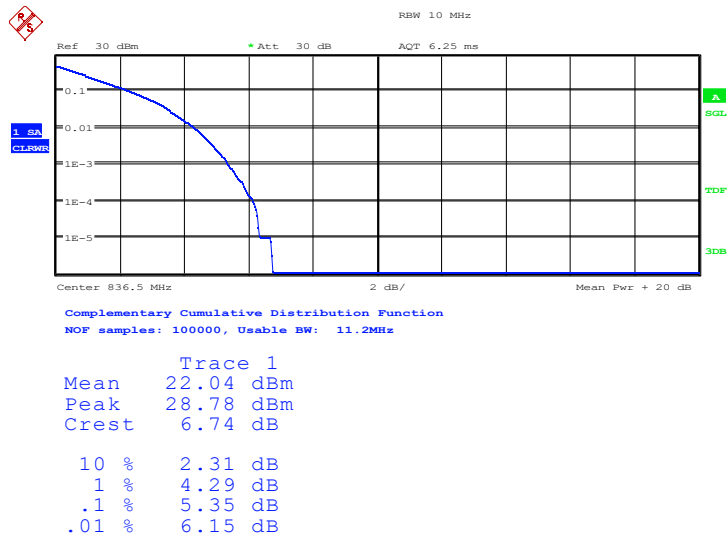
LTE Band 5, 10MHz

Frequency (MHz)	RB	PAPR (dB)	
		QPSK	16QAM
836.5	100%,0	5.35	6.15
829	100%,0	5.35	6.09
844	100%,0	5.45	6.25

LTE band 5 , 10MHz Bandwidth,QPSK

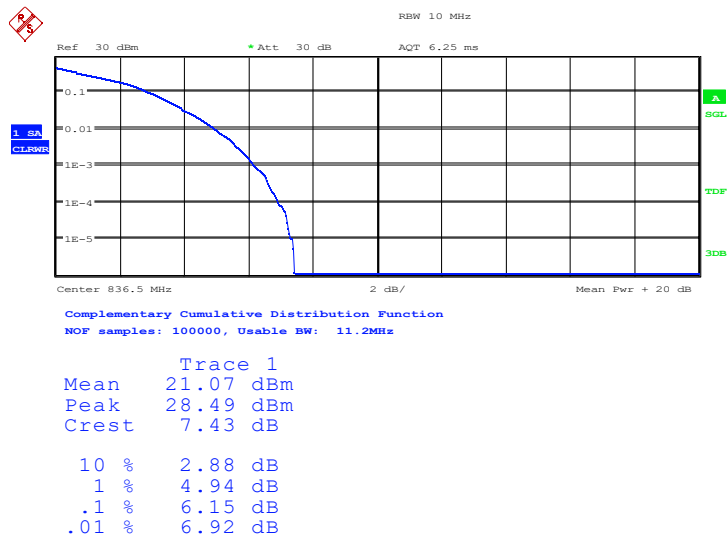
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Date: 14.JUN.2022 20:09:22

LTE band 5 , 10MHz Bandwidth,16QAM

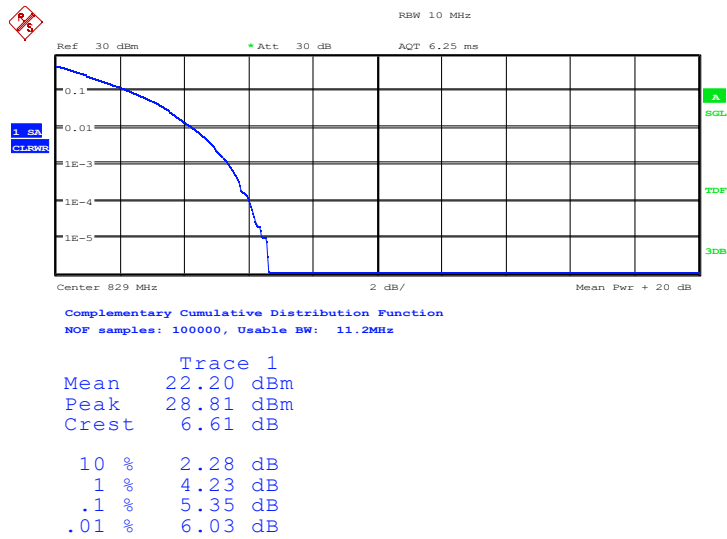


Date: 14.JUN.2022 20:09:35

LTE band 5 , 10MHz Bandwidth,QPSK

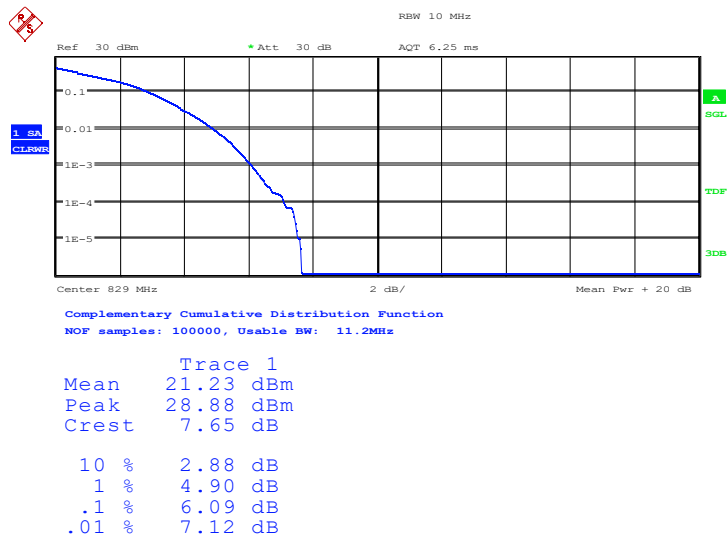
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Date: 20.JUN.2022 04:33:41

LTE band 5 , 10MHz Bandwidth,16QAM

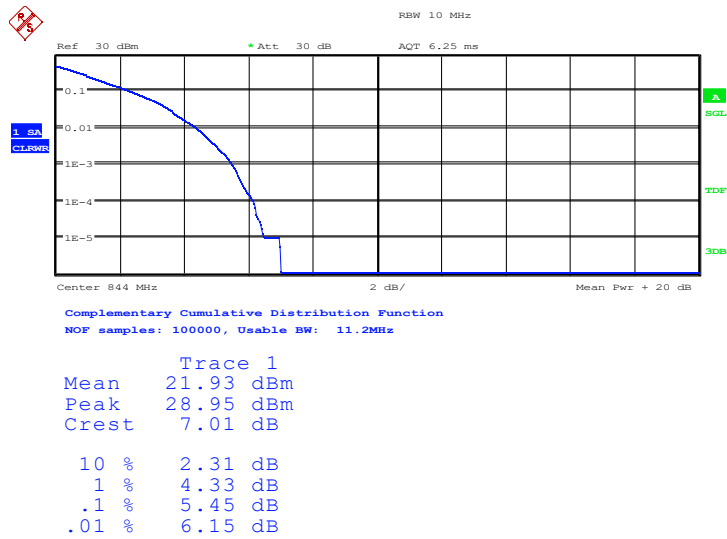


Date: 20.JUN.2022 04:33:53

LTE band 5 , 10MHz Bandwidth,QPSK

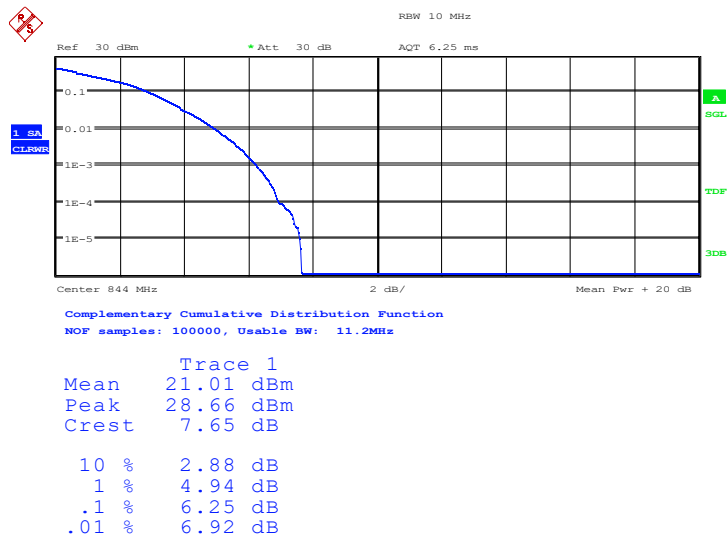
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Date: 20.JUN.2022 04:34:14

LTE band 5 , 10MHz Bandwidth,16QAM

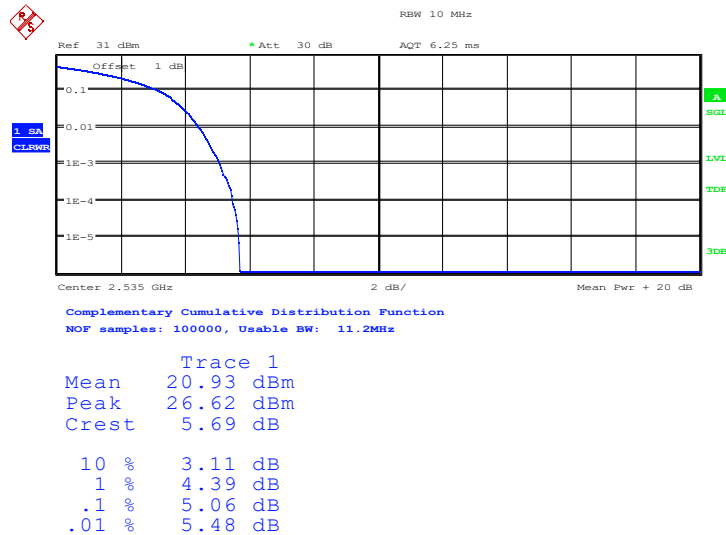


Date: 20.JUN.2022 04:34:28

LTE Band 7, 20MHz

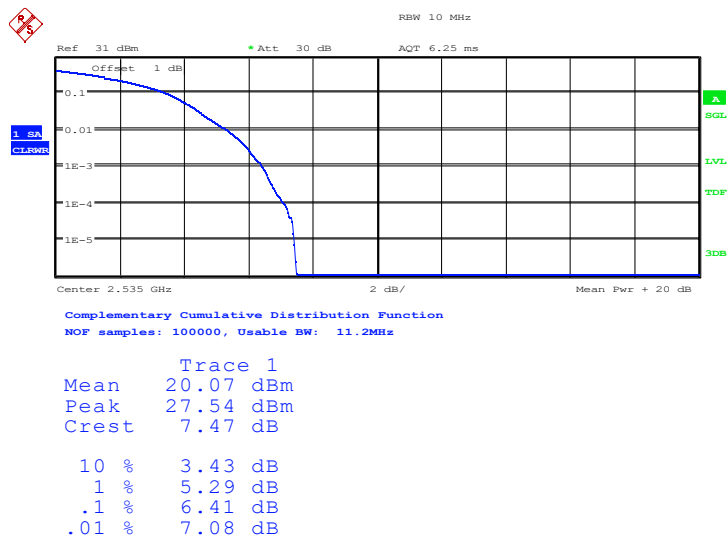
Frequency (MHz)	RB	PAPR (dB)	
		QPSK	16QAM
2535	100%,0	5.06	6.41
2510	100%,0	5.06	6.38
2560	100%,0	5.10	6.31

LTE band 7 , 20MHz Bandwidth,QPSK



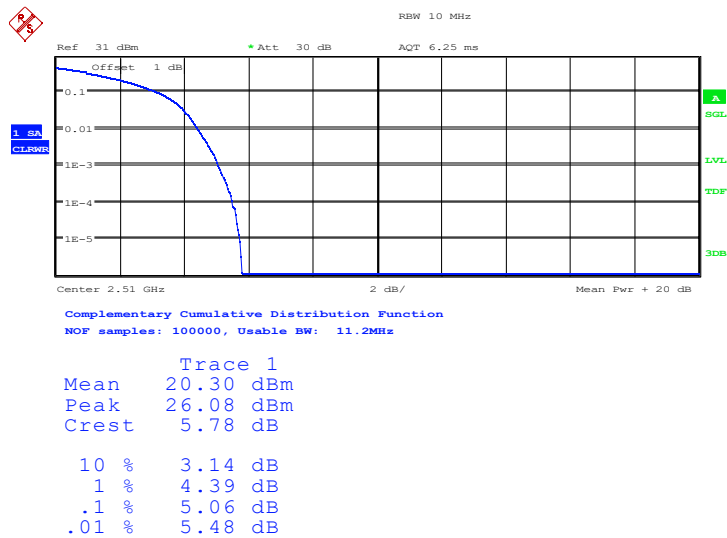
Date: 14.JUN.2022 20:09:55

LTE band 7 , 20MHz Bandwidth,16QAM



Date: 14.JUN.2022 20:10:09

LTE band 7 , 20MHz Bandwidth,QPSK

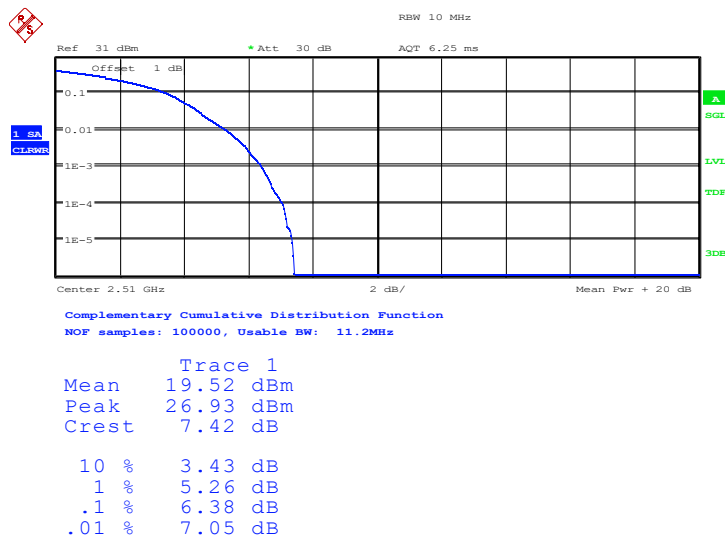


Date: 20.JUN.2022 04:34:55

LTE band 7 , 20MHz Bandwidth,16QAM

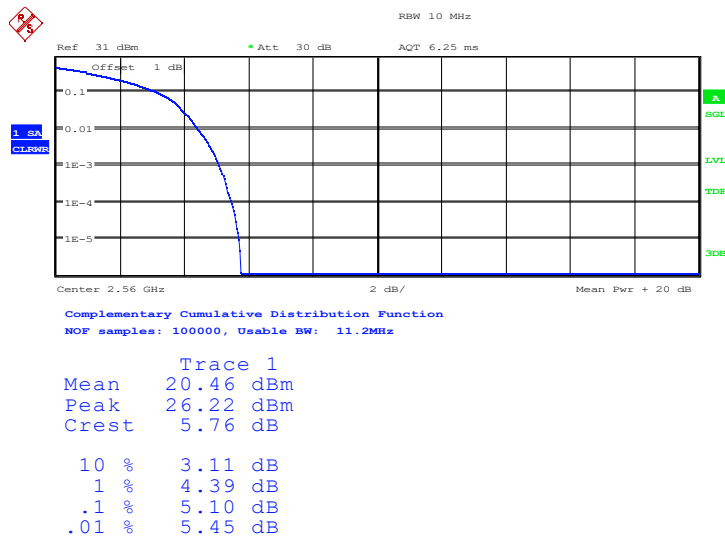
Chongqing Academy of Information and Communication Technology

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Tel: 0086-23-88069965 FAX:0086-23-88608777



Date: 20.JUN.2022 04:35:08

LTE band 7 , 20MHz Bandwidth,QPSK

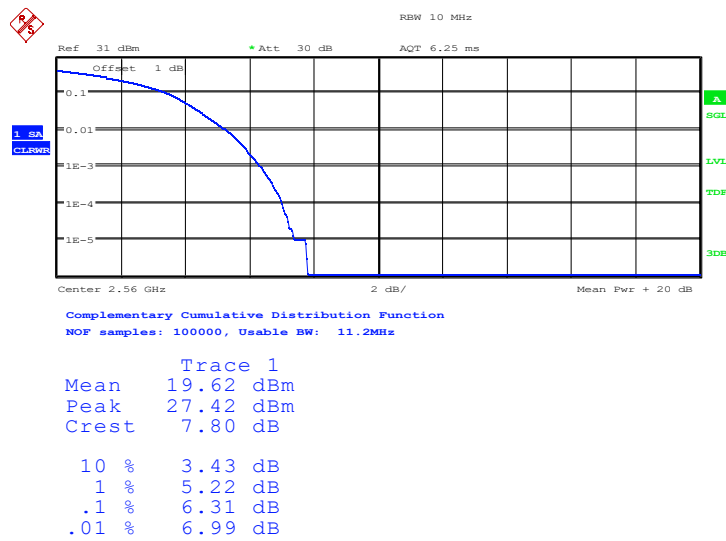


Date: 20.JUN.2022 04:35:30

LTE band 7 , 20MHz Bandwidth,16QAM

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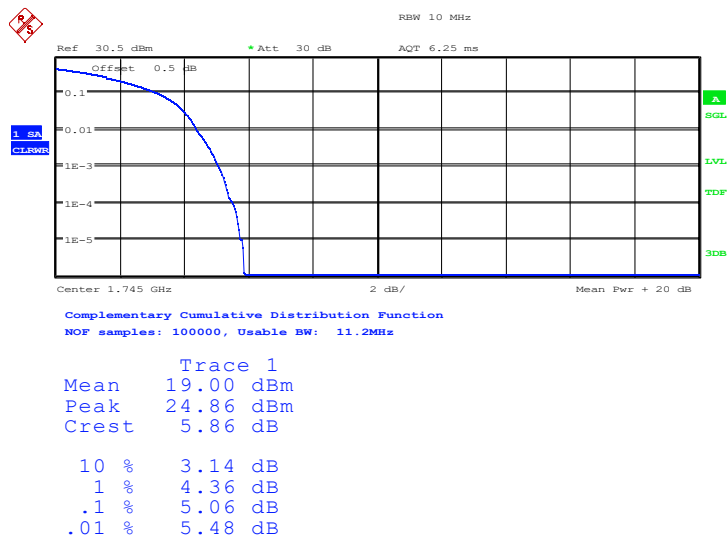


Date: 20.JUN.2022 04:35:43

LTE Band 66, 20MHz

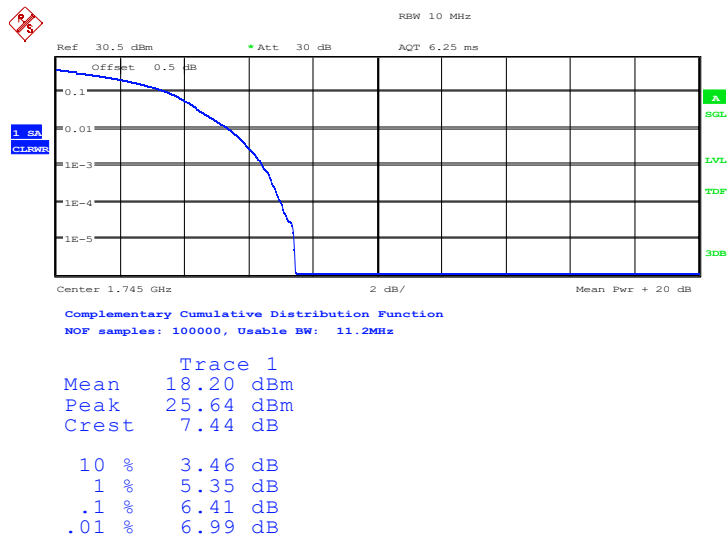
Frequency (MHz)	RB	PAPR (dB)	
		QPSK	16QAM
1745	100%,0	5.06	6.41
1720	100%,0	5.06	6.31
1770	100%,0	5.06	6.31

LTE band 66 , 20MHz Bandwidth,QPSK



Date: 14.JUN.2022 20:10:24

LTE band 66 , 20MHz Bandwidth,16QAM

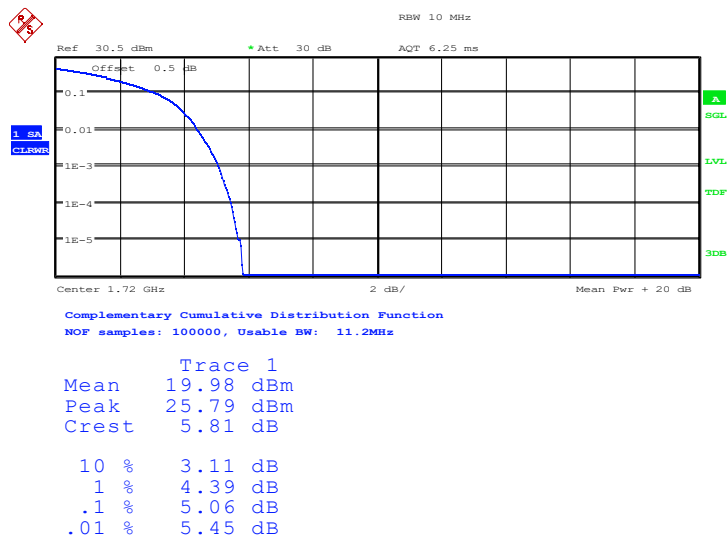


Date: 14.JUN.2022 20:10:38

LTE band 66 , 20MHz Bandwidth,QPSK

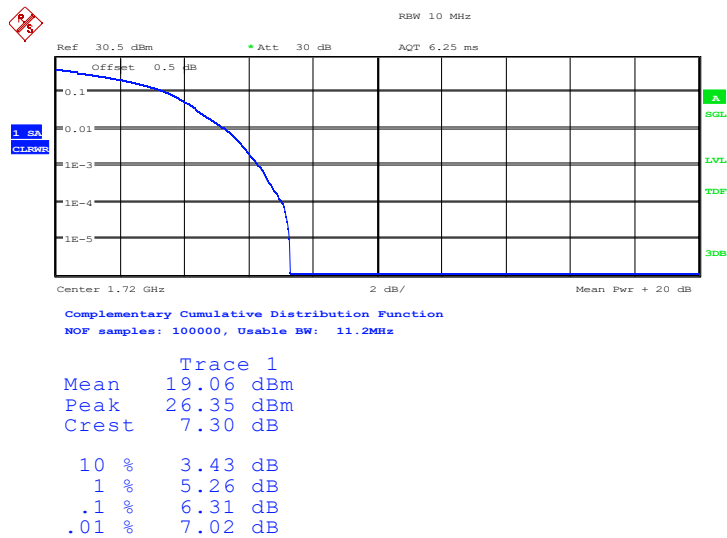
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Date: 20.JUN.2022 04:36:06

LTE band 66 , 20MHz Bandwidth,16QAM

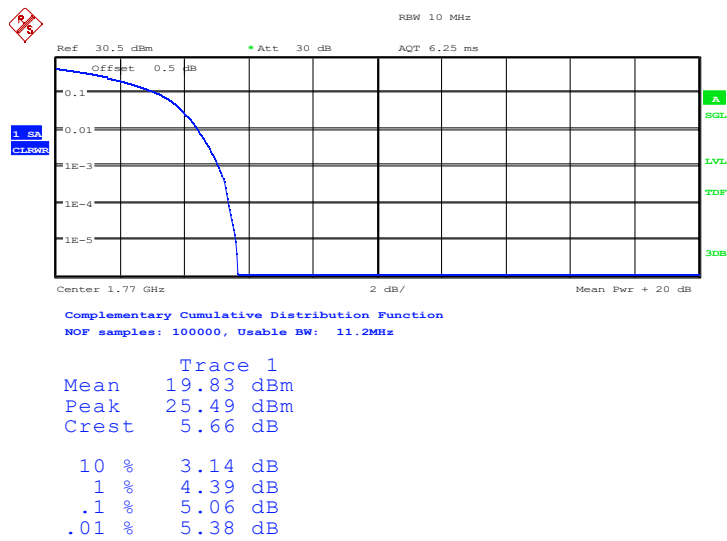


Date: 20.JUN.2022 04:36:20

LTE band 66 , 20MHz Bandwidth,QPSK

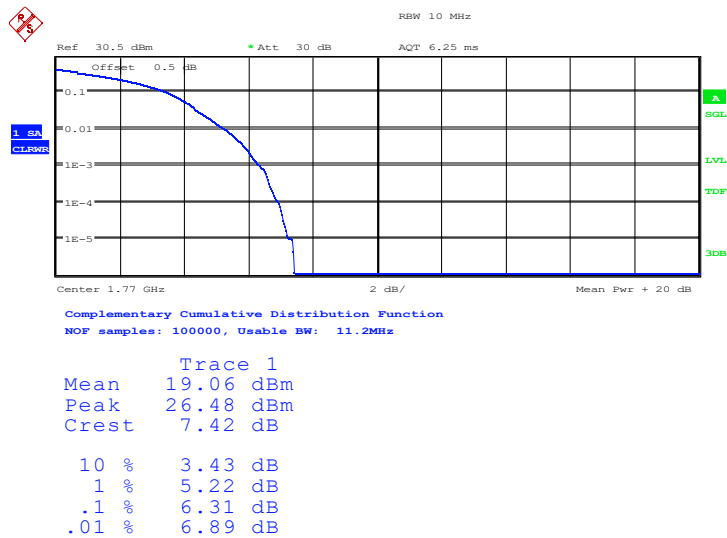
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Tel: 0086-23-88069965 FAX:0086-23-88608777



Date: 20.JUN.2022 04:36:38

LTE band 66 , 20MHz Bandwidth,16QAM



Date: 20.JUN.2022 04:36:51

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Report No.: I22W00046-LTE RF-Rev2

Annex A EUT Photos

See the document "I22W00046-External Photos".

See the document "I22W00046-Internal Photos".

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ANNEX B Deviations from Prescribed Test Methods

No deviation from Prescribed Test Methods.

*****END OF REPORT*****