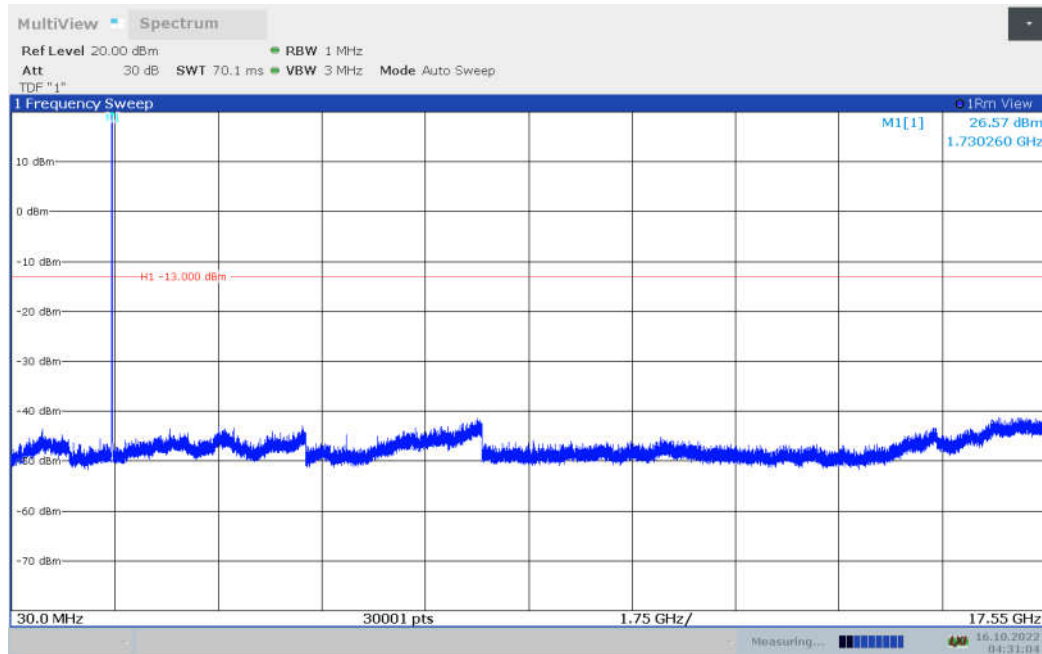




**LTE band 4 : 30MHz – 17.55GHz**

Spurious emission limit –13dBm.

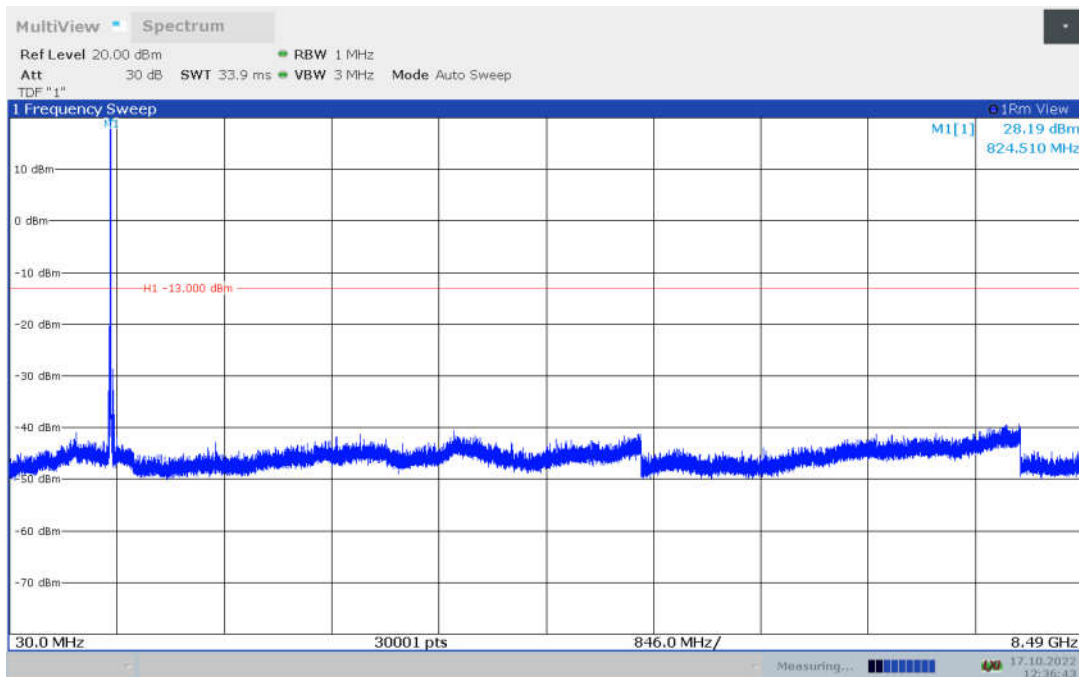
**NOTE: peak above the limit line is the carrier frequency.**



**LTE band 5 20MHz QPSK: 30MHz – 8.49GHz**

Spurious emission limit –25dBm.

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

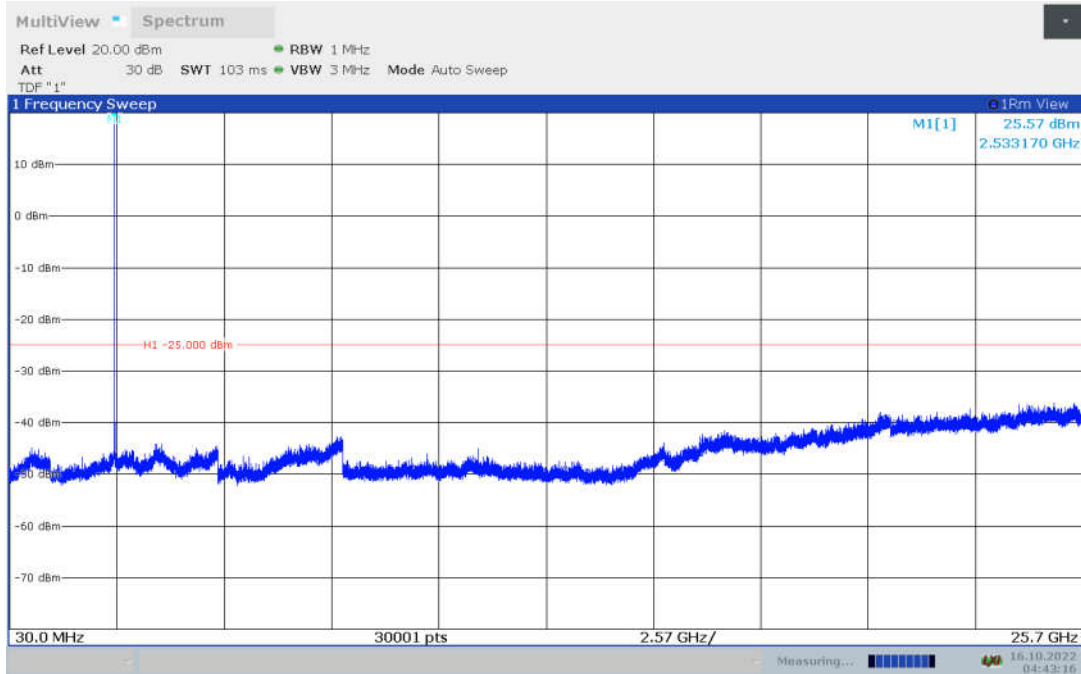




**LTE band 7 20MHz QPSK: 30MHz – 25.7GHz**

Spurious emission limit –25dBm.

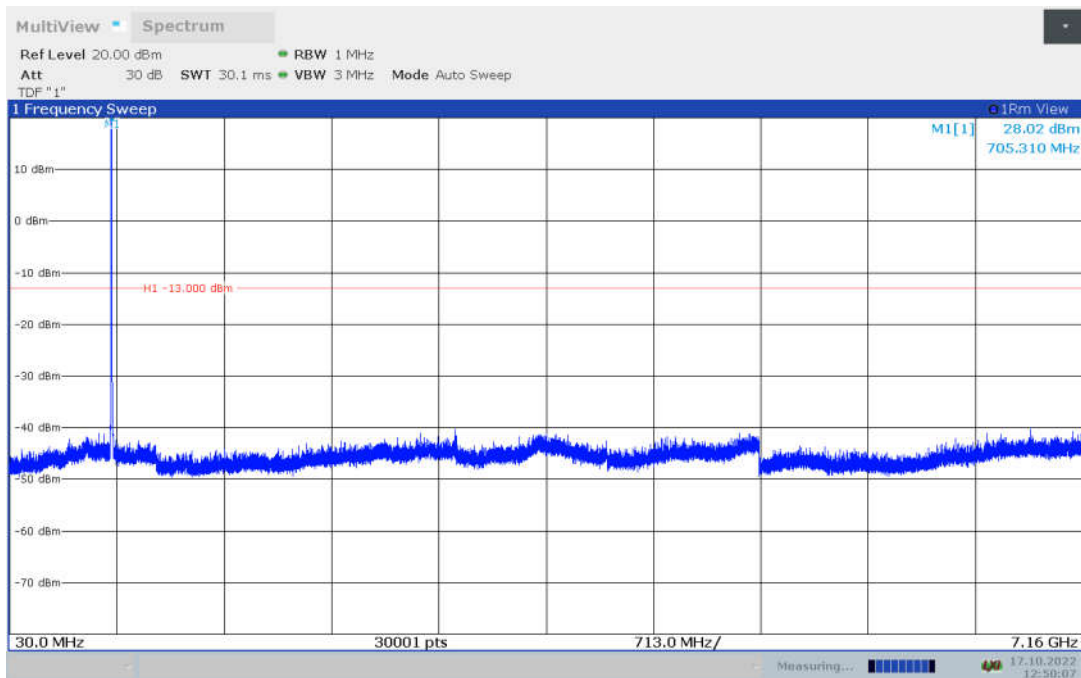
**NOTE: peak above the limit line is the carrier frequency.**



**LTE band 12: 30MHz – 7.16GHz**

Spurious emission limit –13dBm.

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

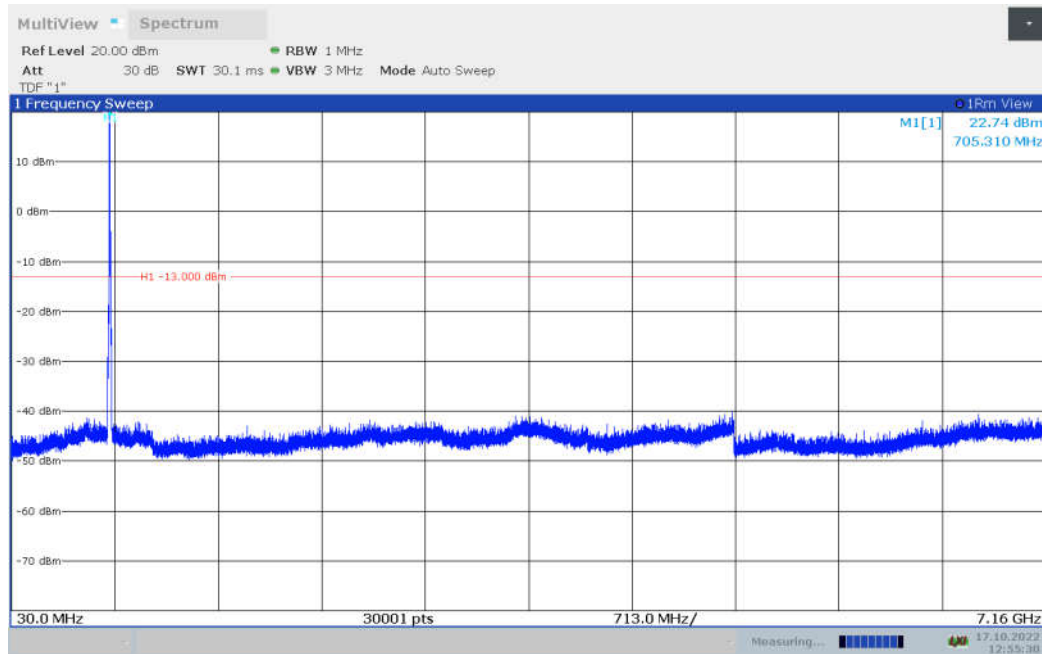




**LTE band 17: 30MHz – 7.16GHz**

Spurious emission limit –13dBm.

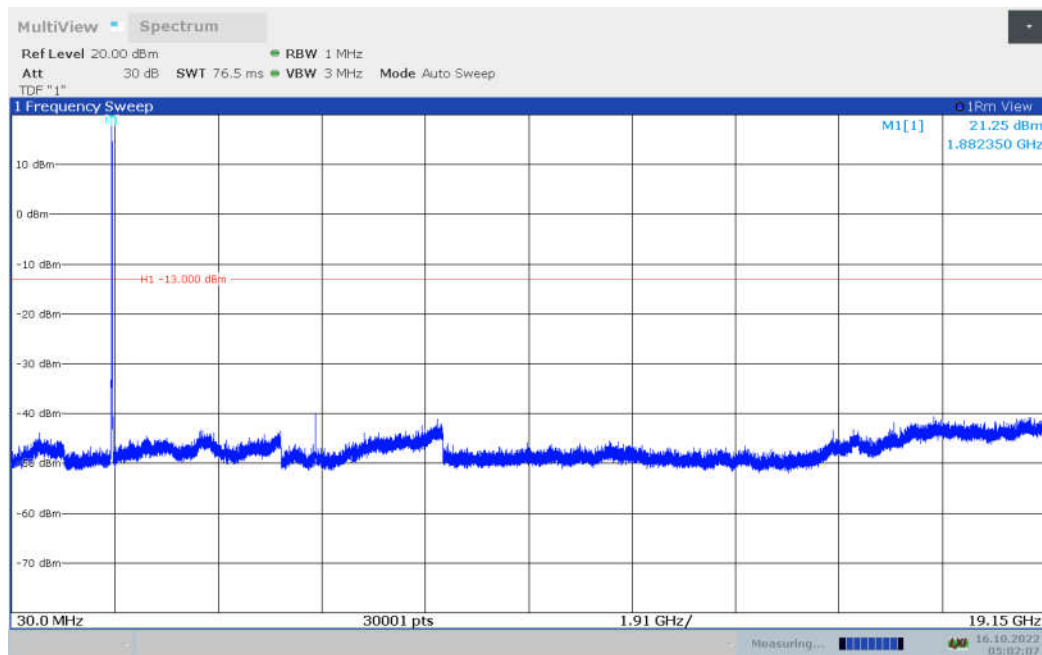
**NOTE: peak above the limit line is the carrier frequency.**



**LTE band 25: 30MHz – 19.15GHz**

Spurious emission limit –13dBm.

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

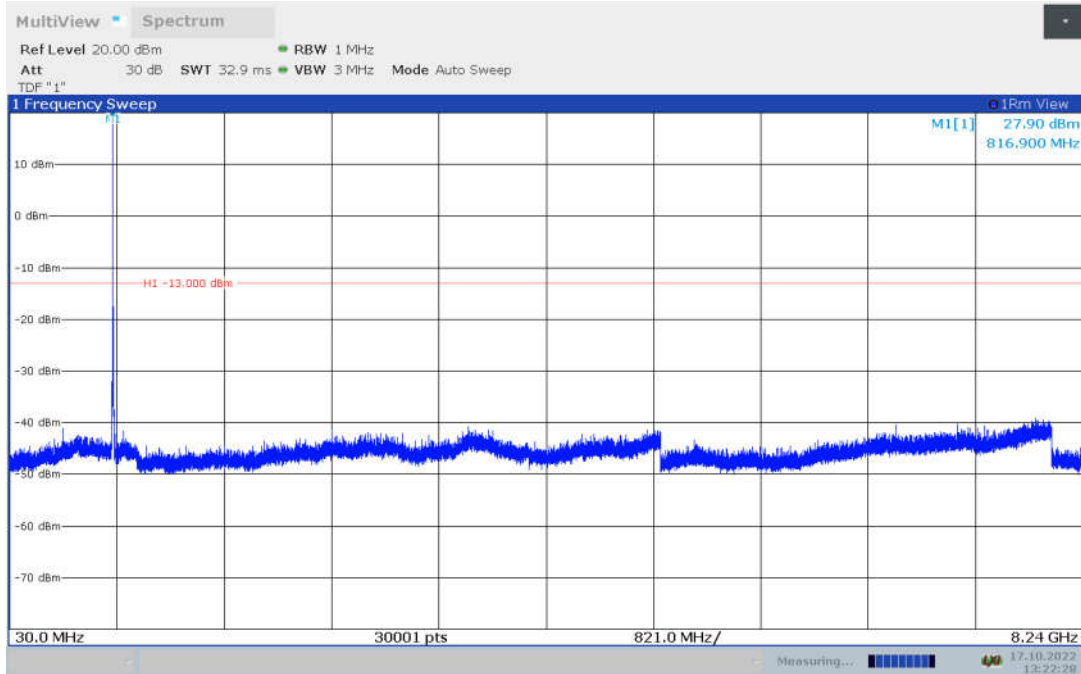




**LTE band 26(814MHz-824MHz): 30MHz – 8.24GHz**

Spurious emission limit –13dBm.

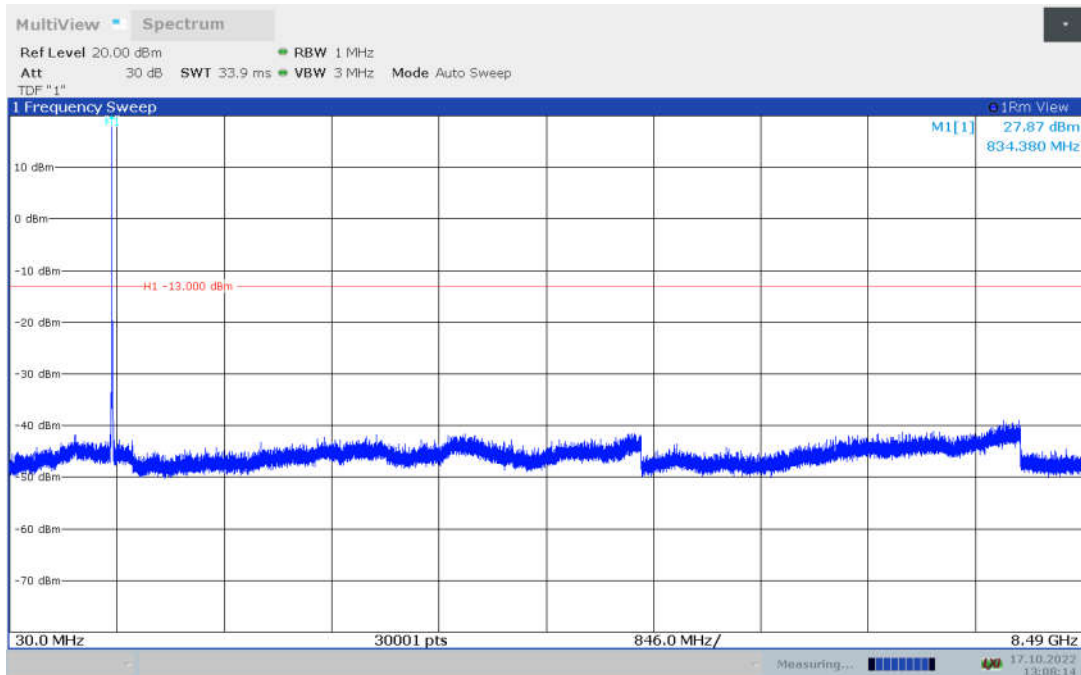
**NOTE: peak above the limit line is the carrier frequency.**



**LTE band 26(824MHz-849MHz): 30MHz – 8.49GHz**

Spurious emission limit –13dBm.

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

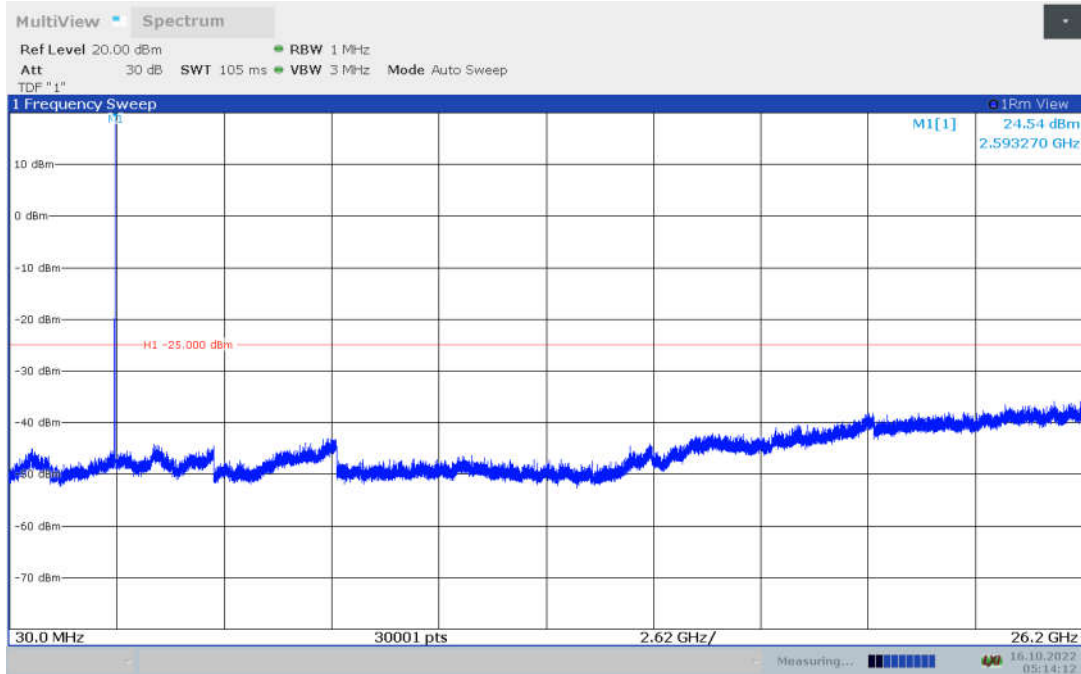




**LTE band 38: 30MHz – 26.2GHz**

Spurious emission limit –25dBm.

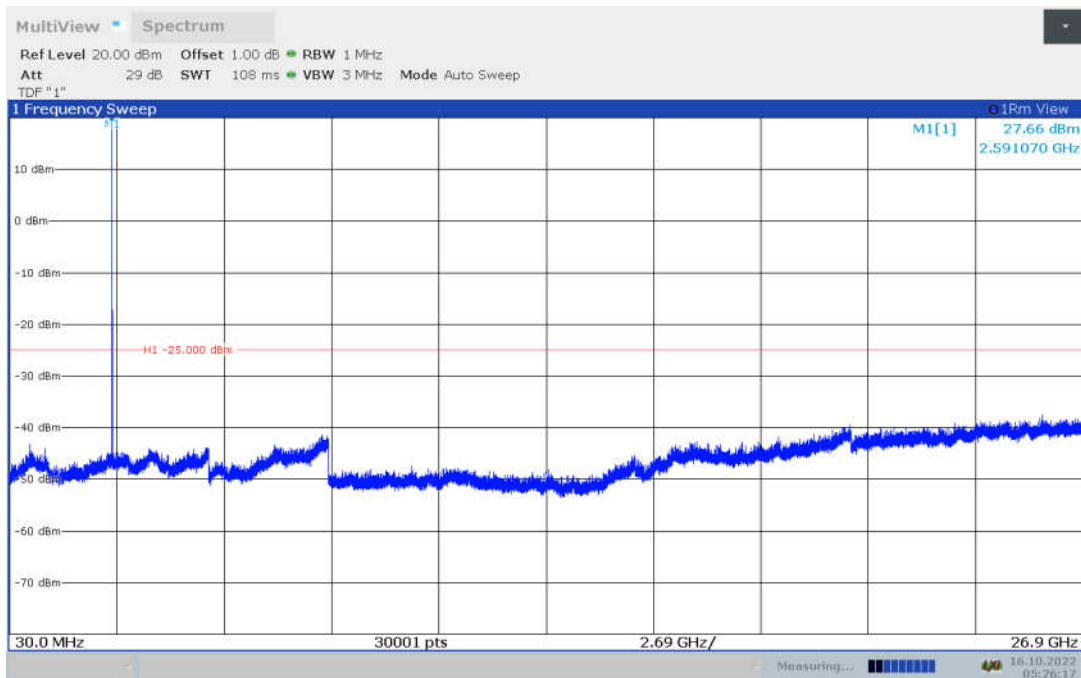
**NOTE: peak above the limit line is the carrier frequency.**



**LTE band 41: 30MHz – 26.9GHz**

Spurious emission limit –25dBm.

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

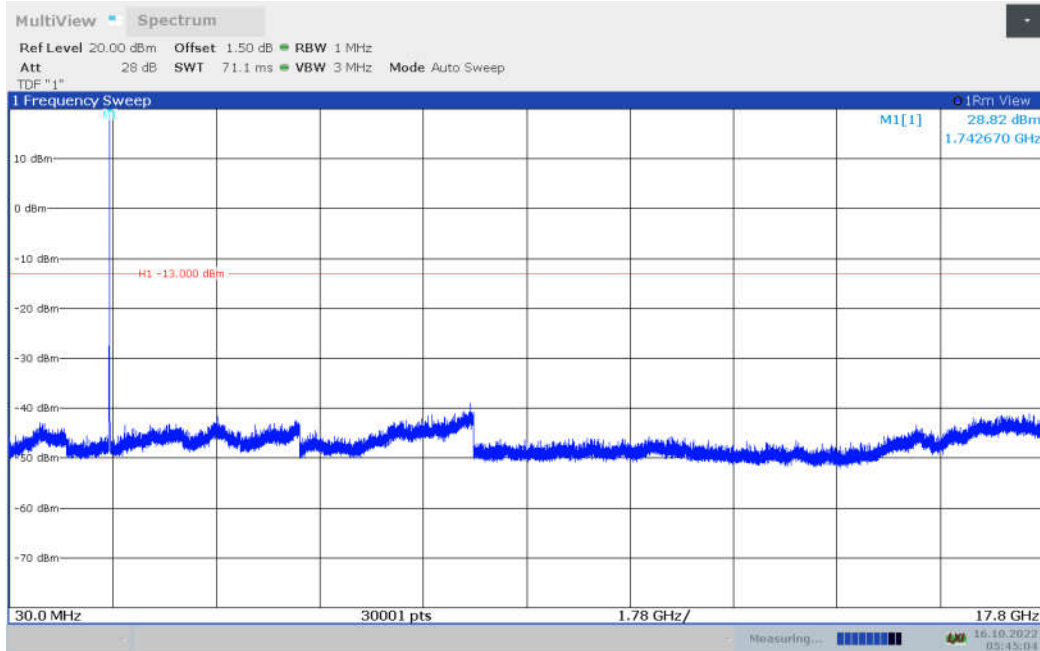




**LTE Band 66: 30MHz – 17.8GHz**

Spurious emission limit –13dBm.

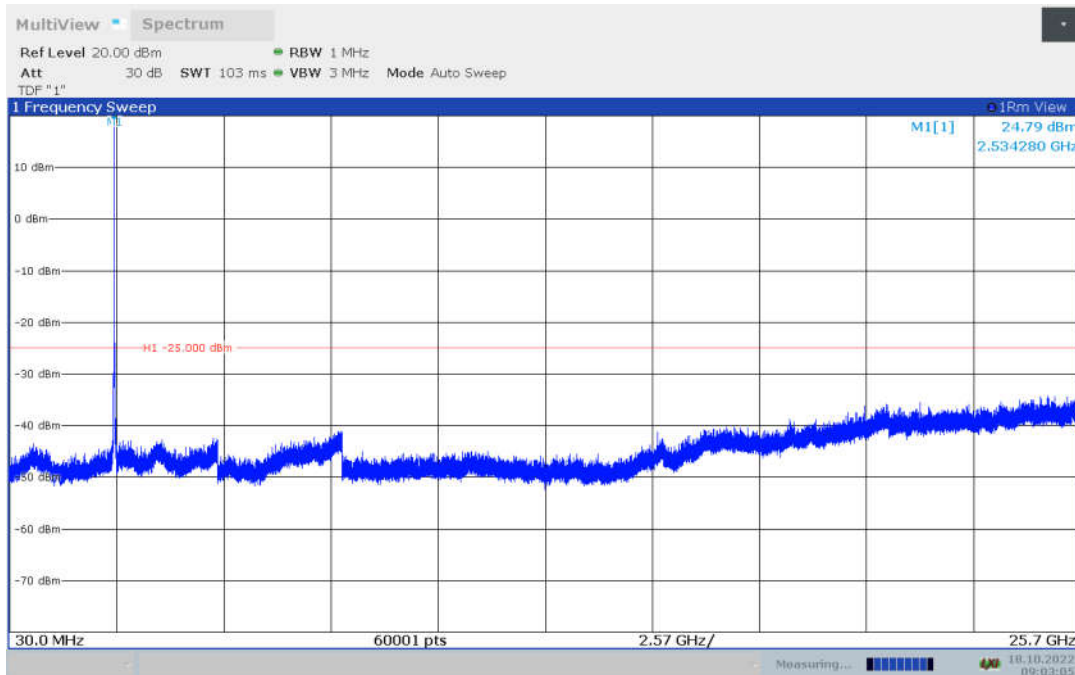
**NOTE: peak above the limit line is the carrier frequency.**



**LTE band CA\_7C: 30MHz – 25.7GHz**

Spurious emission limit –25dBm.

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

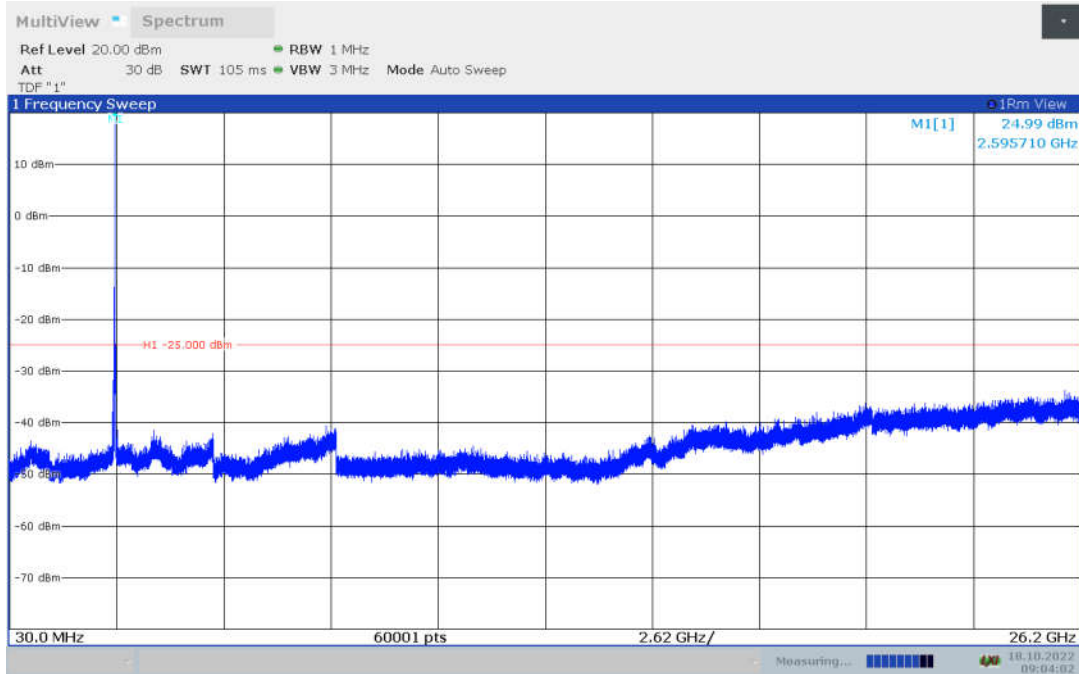




**LTE band CA\_38C: 30MHz – 26.2GHz**

Spurious emission limit –25dBm.

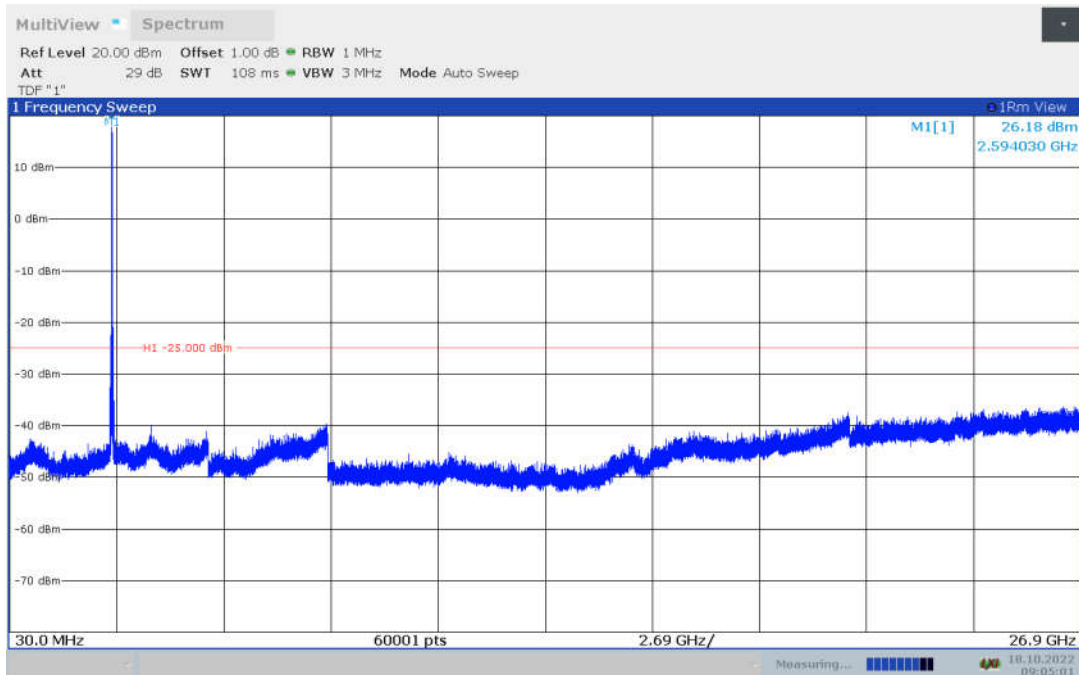
**NOTE: peak above the limit line is the carrier frequency.**



**LTE band CA\_41C: 30MHz – 26.9GHz**

Spurious emission limit –25dBm.

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







**A.8 PEAK-TO-AVERAGE POWER RATIO**

**Reference**

FCC: CFR Part 24.232, 27.50(d), KDB971168 D01(5.7).

The peak-to-average power ratio (PAPR) of the transmitter output power must not exceed 13 dB. The PAPR measurements should be made using either an instrument with complementary cumulative distribution function (CCDF) capabilities to determine that PAPR will not exceed 13 dB for more than 0.1 percent of the time or other Commission approved procedure. The measurement must be performed using a signal corresponding to the highest PAPR expected during periods of continuous transmission.

- a) Refer to instrument's analyzer instruction manual for details on how to use the power statistics/CCDF function;
- b) Set resolution/measurement bandwidth  $\geq$  signal's occupied bandwidth;
- c) Set the number of counts to a value that stabilizes the measured CCDF curve;
- d) Set the measurement interval to 1 ms
- e) Record the maximum PAPR level associated with a probability of 0.1%

**A.8.1 Measurement limit**

not exceed 13 dB

**A.8.2 Measurement results**

**Only worst case result is given below**

**LTE band 2**

Frequency(MHz)	Bandwidth(MHz)	PAPR(dB)	
		QPSK	16QAM
1880.0	20	5.52	6.12

**LTE band 2, 20MHz Bandwidth, QPSK (PAPR)**







LTE band 2, 20MHz Bandwidth, 16QAM (PAPR)





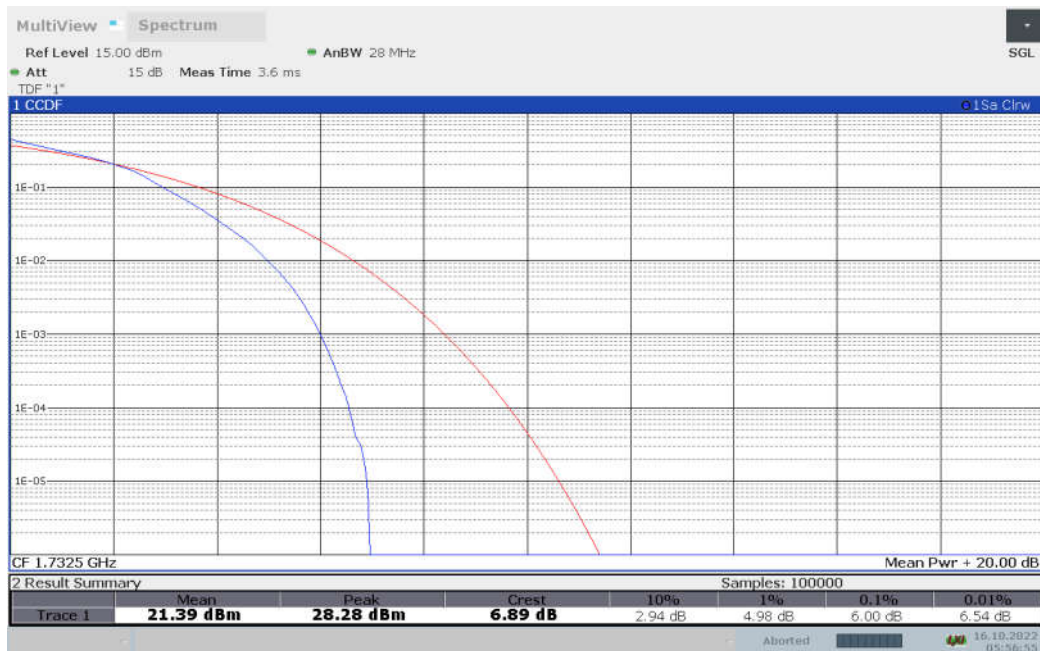
**LTE band 4**

Frequency(MHz)	Bandwidth(MHz)	PAPR(dB)	
		QPSK	16QAM
1732.5	20	5.38	6.00

**LTE band 4, 20MHz Bandwidth, QPSK (PAPR)**



**LTE band 4, 20MHz Bandwidth, 16QAM (PAPR)**





**LTE band 5**

Frequency(MHz)	Bandwidth(MHz)	PAPR(dB)	
		QPSK	16QAM
826.5	10	5.12	5.88

**LTE band 5, 10MHz Bandwidth, QPSK (PAPR)**



**LTE band 5, 10MHz Bandwidth, 16QAM (PAPR)**

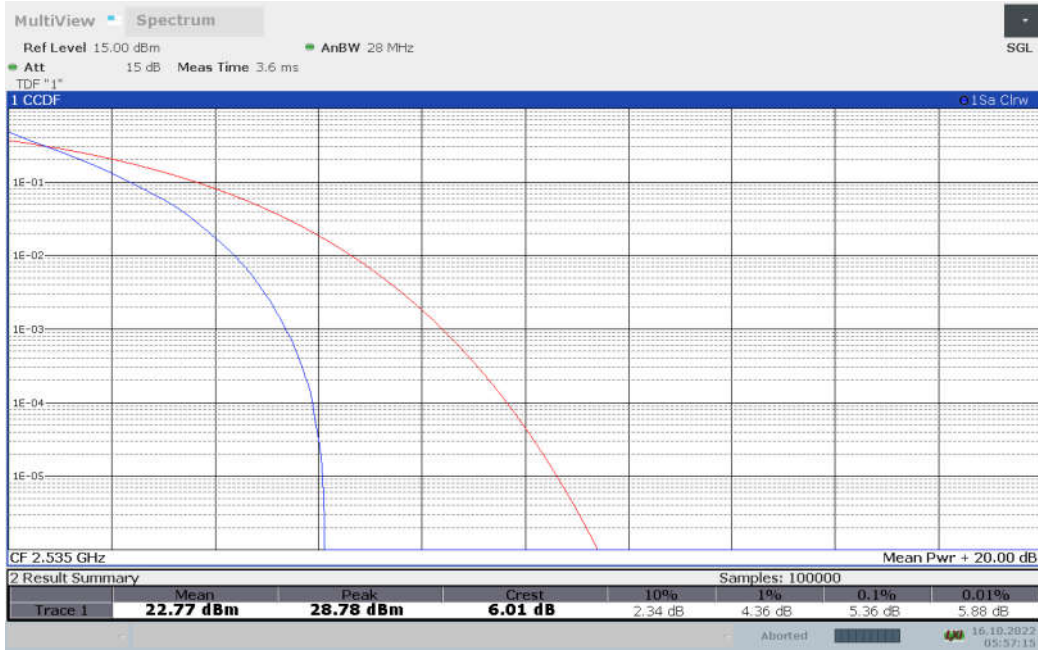




LTE band 7

Frequency(MHz)	Bandwidth(MHz)	PAPR(dB)	
		QPSK	16QAM
2535.0	20	5.36	6.06

LTE band 7, 20MHz Bandwidth, QPSK (PAPR)



LTE band 7, 20MHz Bandwidth, 16QAM (PAPR)







**LTE band 12**

Frequency(MHz)	Bandwidth(MHz)	PAPR(dB)	
		QPSK	16QAM
707.5	10	5.22	6.06

**LTE band 12, 10MHz Bandwidth, QPSK (PAPR)**



**LTE band 12, 10MHz Bandwidth, 16QAM (PAPR)**





**LTE band 17**

Frequency(MHz)	Bandwidth(MHz)	PAPR(dB)	
		QPSK	16QAM
710.0	10	5.24	6.06

**LTE band 17, 10MHz Bandwidth, QPSK (PAPR)**



**LTE band 17, 10MHz Bandwidth, 16QAM (PAPR)**

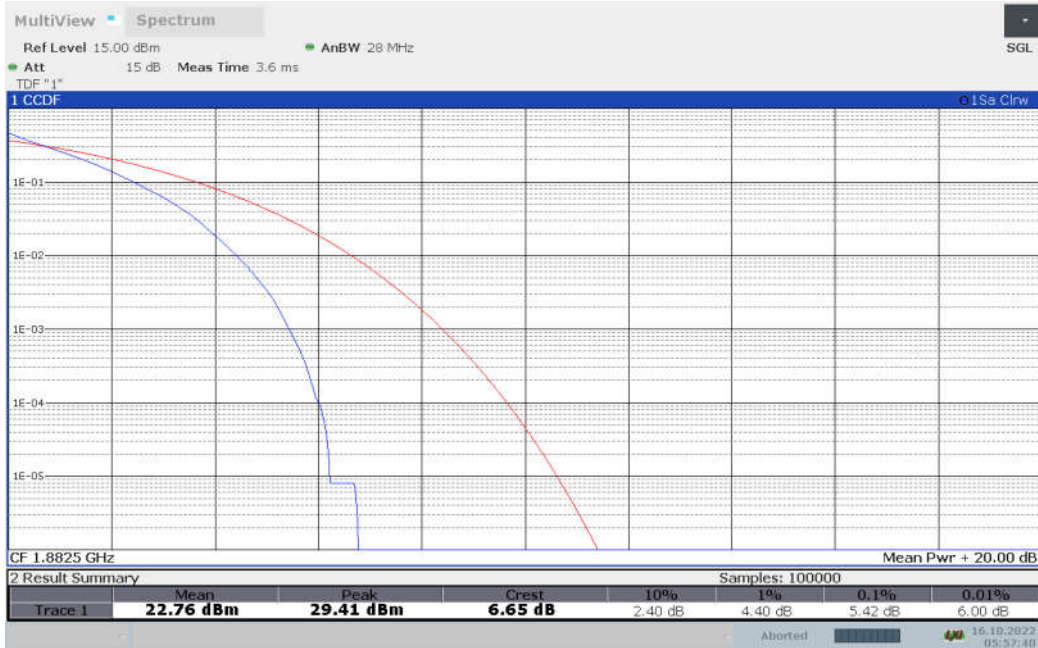




**LTE band 25**

Frequency(MHz)	Bandwidth(MHz)	PAPR(dB)	
		QPSK	16QAM
1882.5	20	5.42	6.12

**LTE band 25, 20MHz Bandwidth, QPSK (PAPR)**



**LTE band 25, 20MHz Bandwidth, 16QAM (PAPR)**



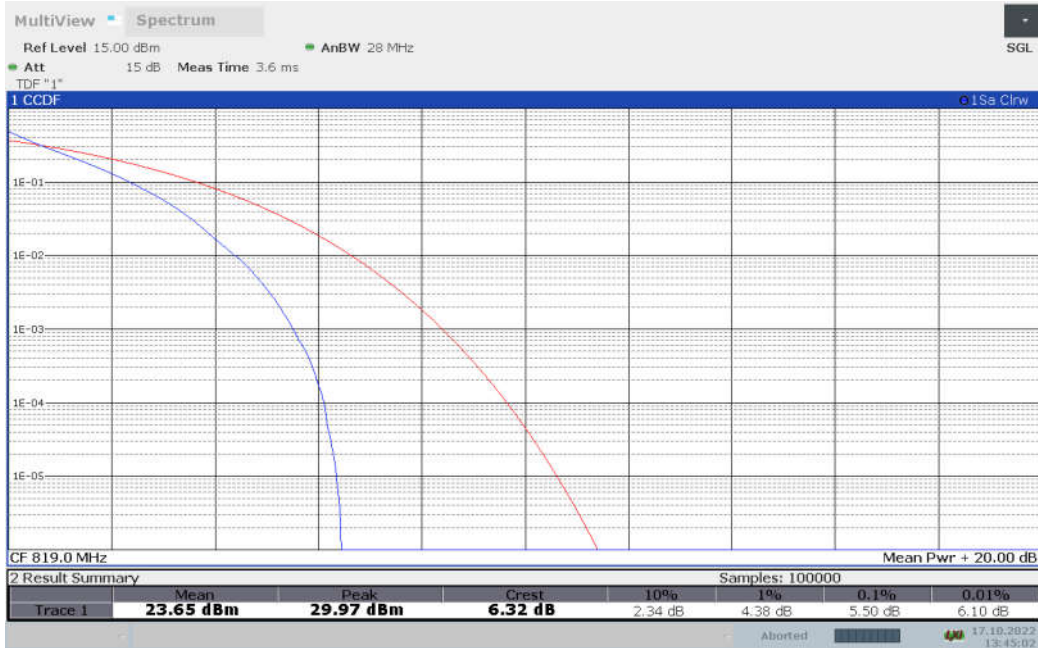




**LTE band 26(814MHz -824MHz)**

Frequency(MHz)	Bandwidth(MHz)	PAPR(dB)	
		QPSK	16QAM
819.0	10	5.50	6.12

**LTE band 26(814MHz -824MHz), 10MHz Bandwidth, QPSK (PAPR)**



**LTE band 26(814MHz -824MHz), 10MHz Bandwidth, 16QAM (PAPR)**

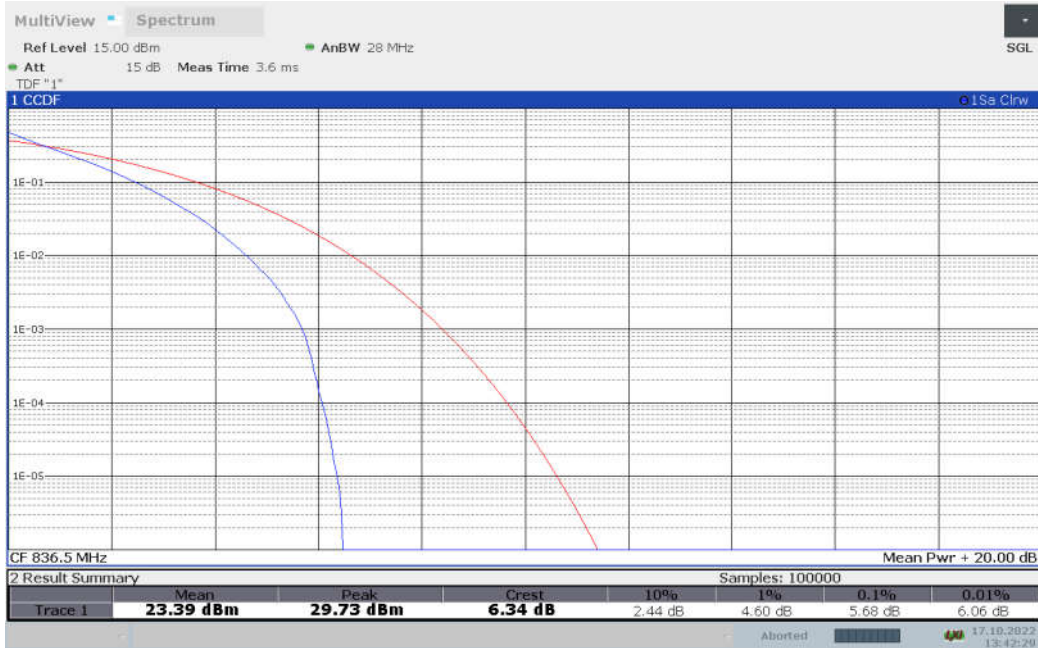




**LTE band 26(824MHz -849MHz)**

Frequency(MHz)	Bandwidth(MHz)	PAPR(dB)	
		QPSK	16QAM
836.5	15	5.68	6.18

**LTE band 26(824MHz -849MHz), 15MHz Bandwidth, QPSK (PAPR)**



**LTE band 26(824MHz -849MHz), 15MHz Bandwidth, 16QAM (PAPR)**





**LTE band 38**

Frequency(MHz)	Bandwidth(MHz)	PAPR(dB)	
		QPSK	16QAM
2595.0	20	7.76	8.52

**LTE band 38, 20MHz Bandwidth, QPSK (PAPR)**



**LTE band 38, 20MHz Bandwidth, 16QAM (PAPR)**



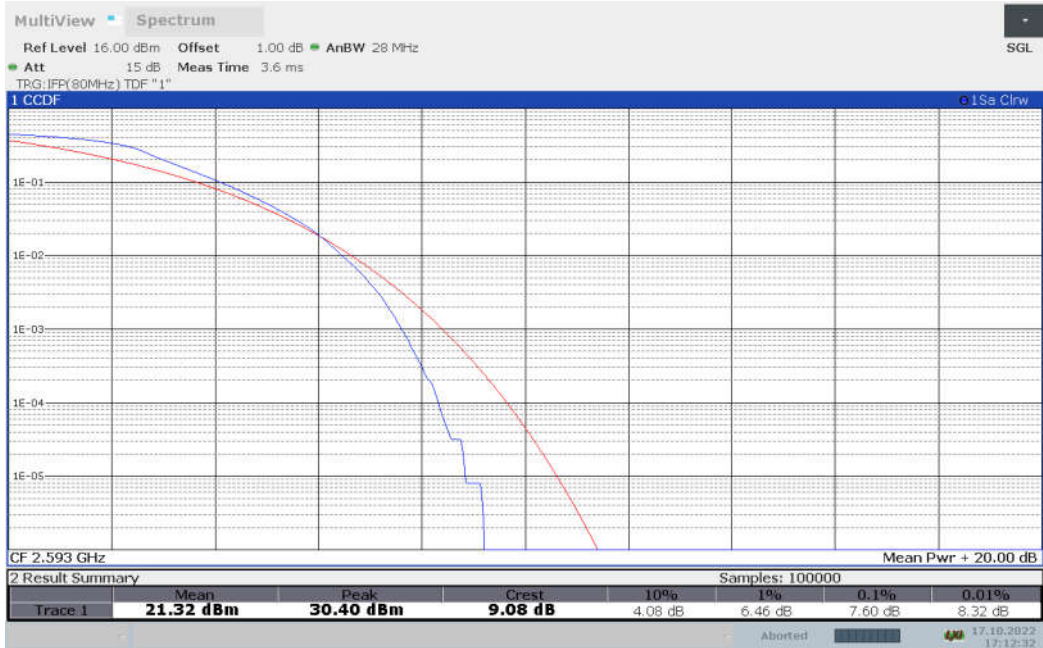




**LTE band 41**

Frequency(MHz)	Bandwidth(MHz)	PAPR(dB)	
		QPSK	16QAM
2335.0	20	7.60	8.42

**LTE band 41, 20MHz Bandwidth, QPSK (PAPR)**



**LTE band 41, 20MHz Bandwidth, 16QAM (PAPR)**

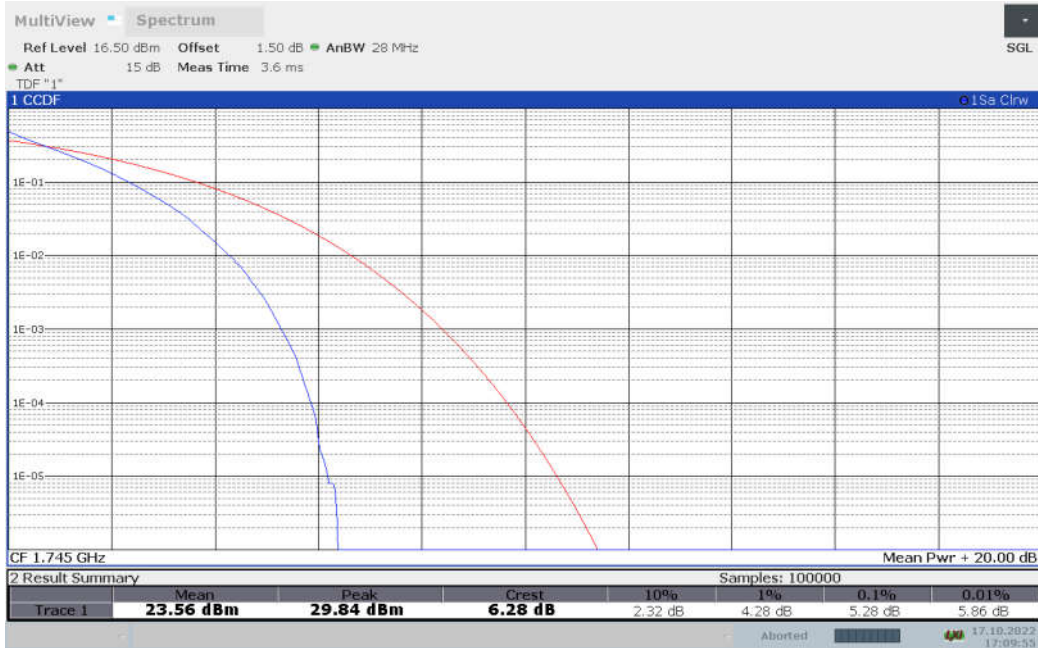




**LTE band 66**

Frequency(MHz)	Bandwidth(MHz)	PAPR(dB)	
		QPSK	16QAM
1745.0	20	5.28	5.96

**LTE band 66, 20MHz Bandwidth, QPSK (PAPR)**



**LTE band 66, 20MHz Bandwidth, 16QAM (PAPR)**

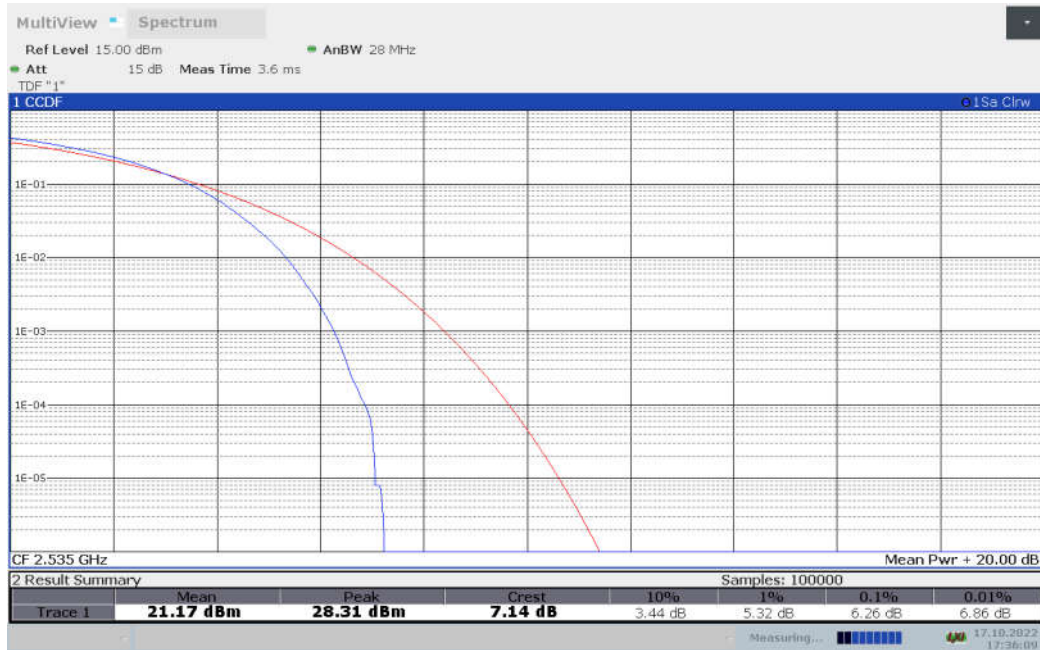




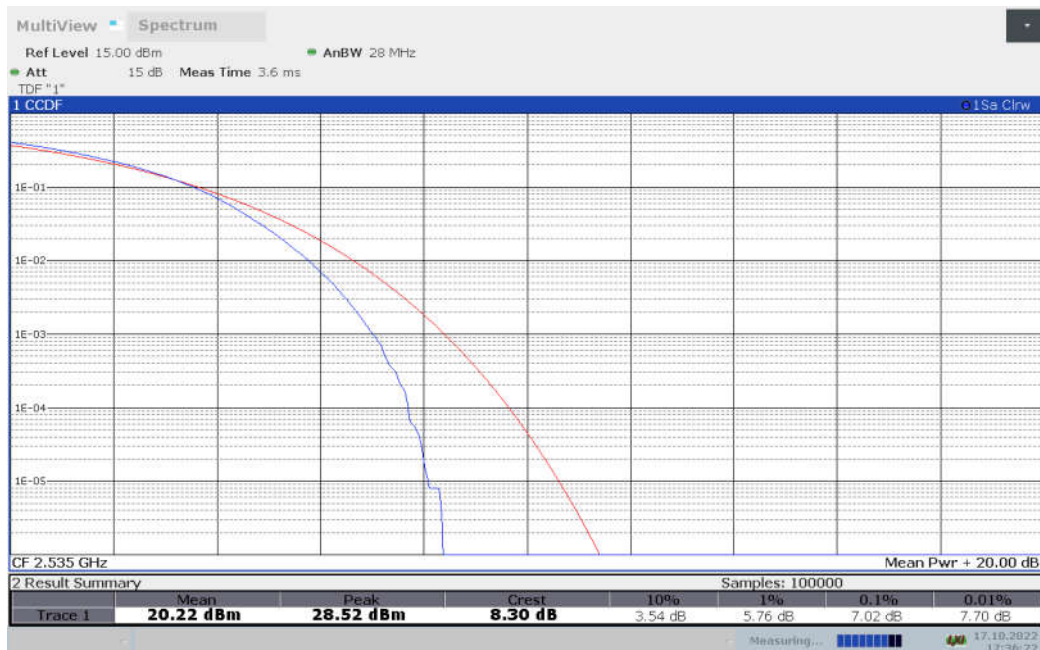
LTE band CA\_7C

Frequency(MHz)	Bandwidth(MHz)	PAPR(dB)	
		QPSK	16QAM
2535.0	20+20	6.26	7.02

LTE band CA\_7C, 20MHz+20MHz Bandwidth, QPSK (PAPR)



LTE band CA\_7C, 20MHz+20MHz Bandwidth, 16Q (PAPR)







LTE band CA\_38C

Frequency(MHz)	Bandwidth(MHz)	PAPR(dB)	
		QPSK	16QAM
2595.0	20+20	9.28	8.60

LTE band CA\_38C, 20MHz+20MHz Bandwidth, QPSK (PAPR)



LTE band CA\_38C, 20MHz+20MHz Bandwidth, 16Q (PAPR)



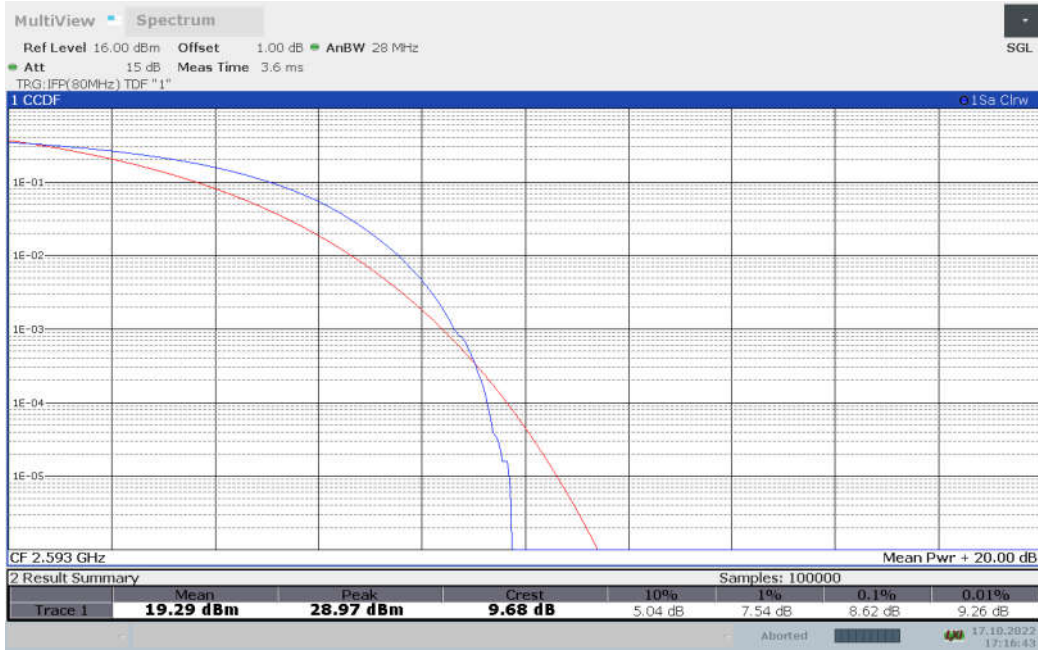




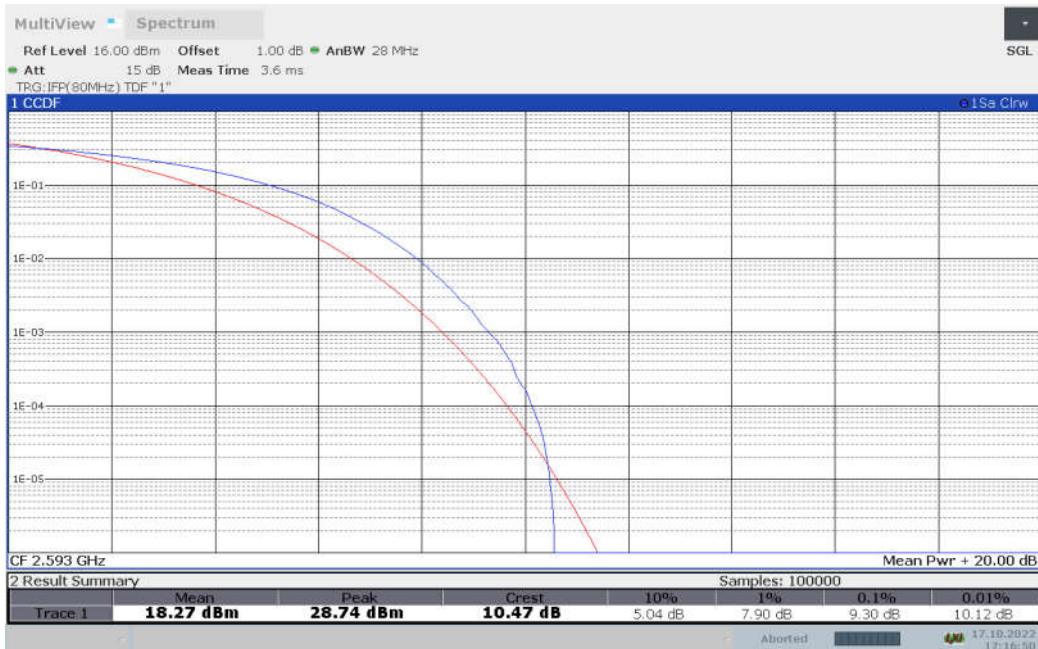
**LTE band CA\_41C**

Frequency(MHz)	Bandwidth(MHz)	PAPR(dB)	
		QPSK	16QAM
2593.0	20+20	8.62	9.30

**LTE band CA\_41C, 20MHz+20MHz Bandwidth, QPSK (PAPR)**



**LTE band CA\_41C, 20MHz+20MHz Bandwidth, 16Q (PAPR)**



Note: Expanded measurement uncertainty is  $U = 0.48, k = 2$

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