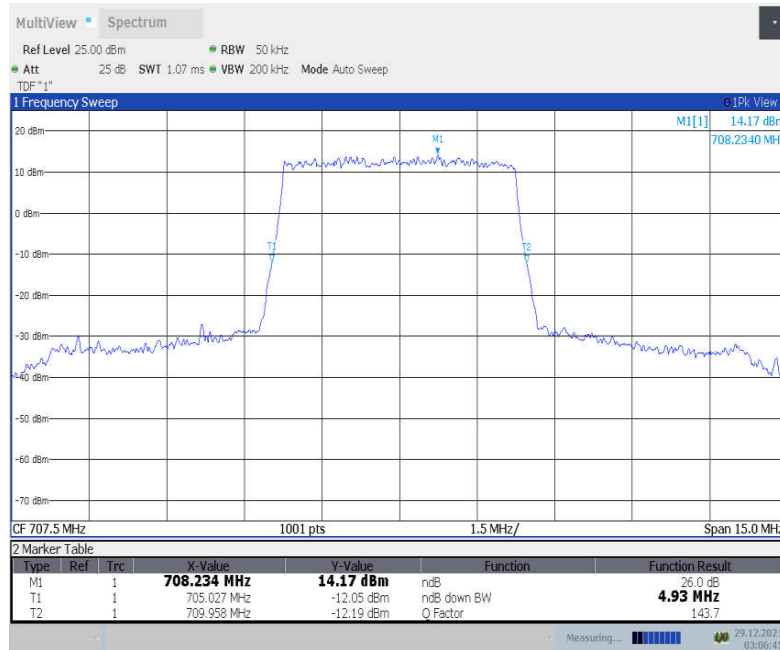




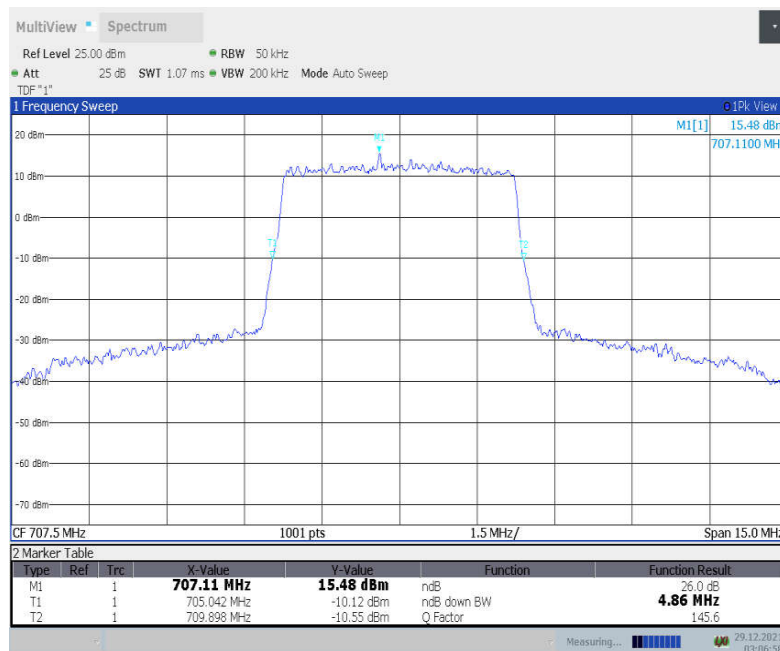
**LTE band 12, 5MHz (-26dBc BW)**

Frequency(MHz)	Emission Bandwidth (-26dBc BW)(MHz)		
707.5	QPSK	16QAM	64QAM
	4.93	4.86	4.93

**LTE band 12, 5MHz Bandwidth, QPSK (-26dBc BW)**

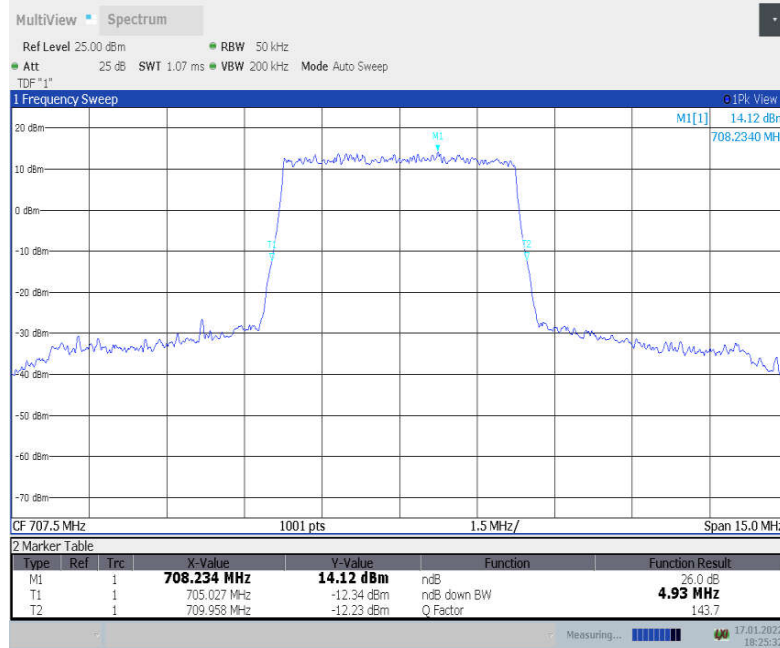


**LTE band 12, 5MHz Bandwidth, 16QAM (-26dBc BW)**





**LTE band 12, 5MHz Bandwidth,64QAM (-26dBc BW)**

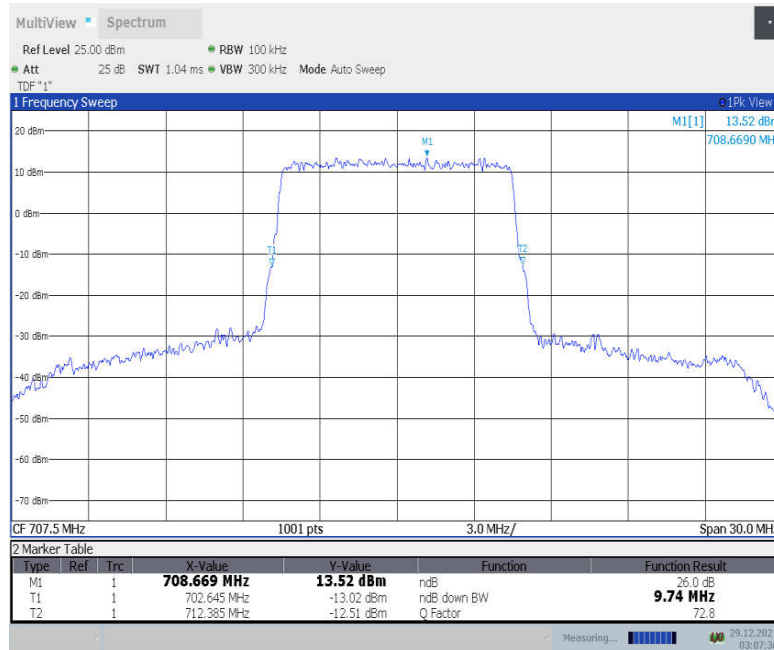




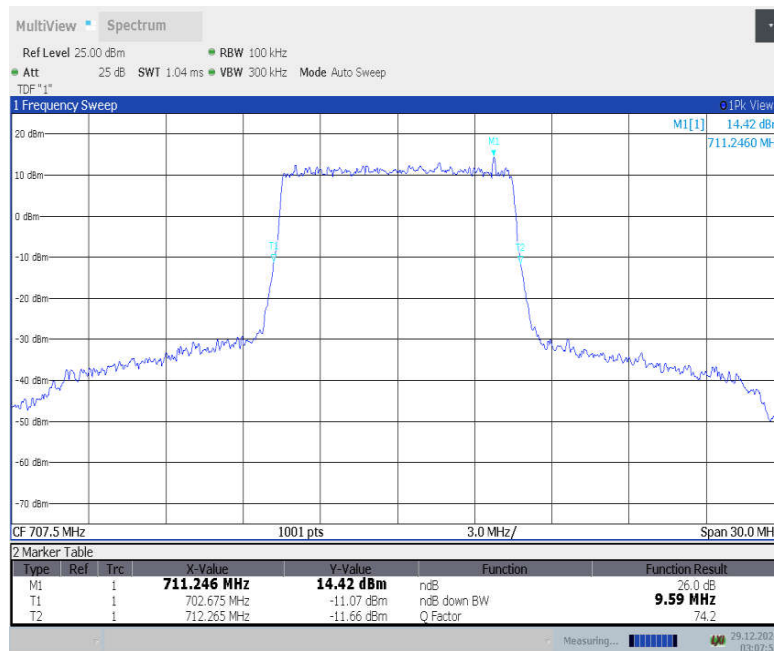
**LTE band 12, 10MHz (-26dBc BW)**

Frequency(MHz)	Emission Bandwidth (-26dBc BW)(MHz)		
707.5	QPSK	16QAM	64QAM
	9.74	9.59	9.77

**LTE band 12, 10MHz Bandwidth, QPSK (-26dBc BW)**

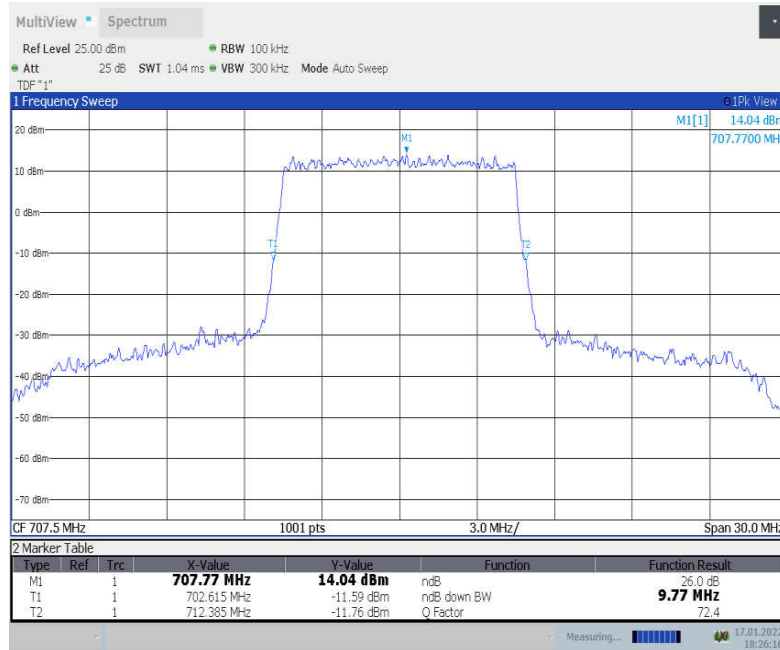


**LTE band 12, 10MHz Bandwidth, 16QAM (-26dBc BW)**





**LTE band 12, 10MHz Bandwidth, 64QAM (-26dBc BW)**

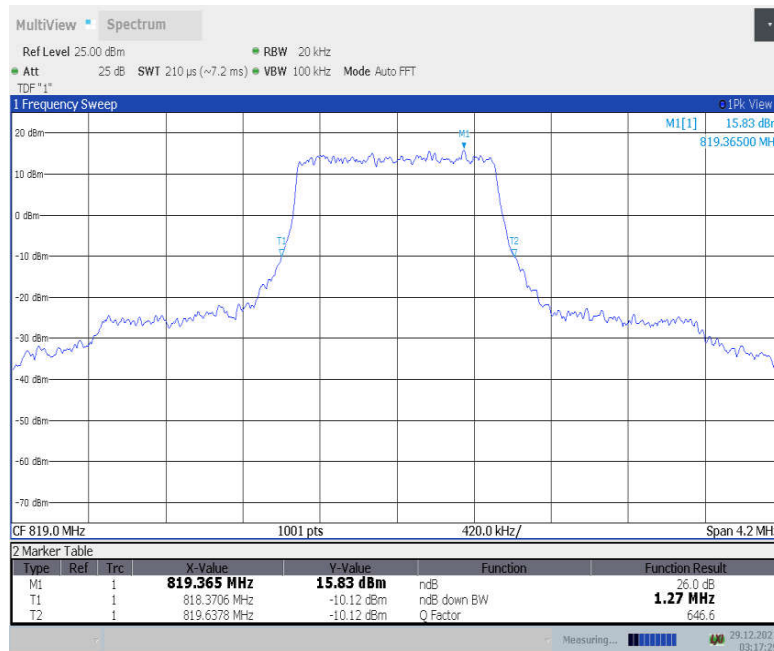




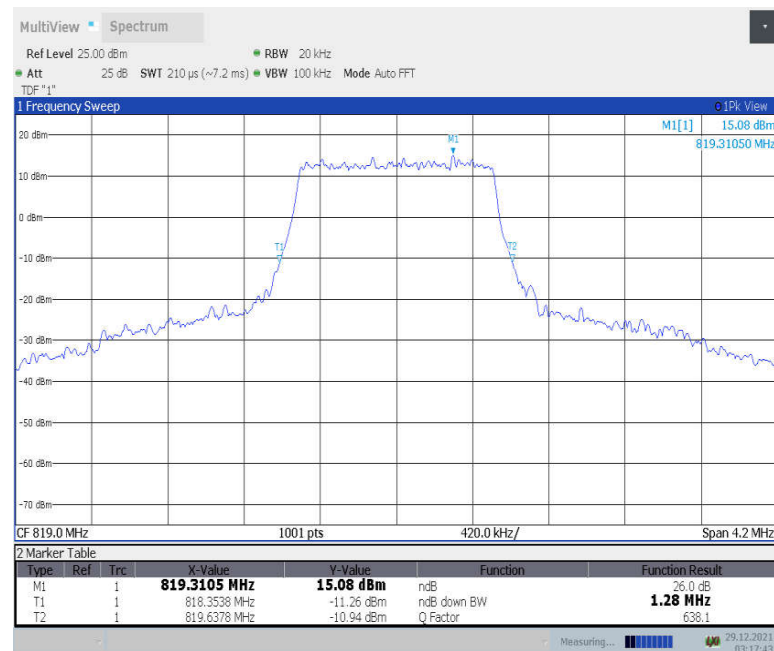
**LTE band 26(814MHz-824MHz), 1.4MHz (-26dBc BW)**

Frequency(MHz)	Emission Bandwidth (-26dBc BW)(MHz)		
836.5	QPSK	16QAM	64QAM
	1.27	1.28	1.26

**LTE band 26(814MHz-824MHz), 1.4MHz Bandwidth, QPSK (-26dBc BW)**

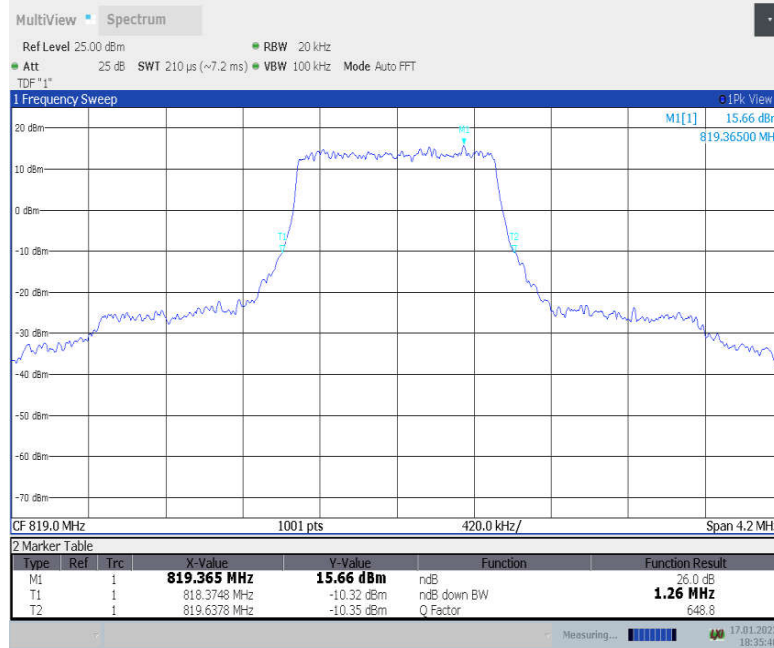


**LTE band 26(814MHz-824MHz), 1.4MHz Bandwidth, 16QAM (-26dBc BW)**





LTE band 26(814MHz-824MHz), 1.4MHz Bandwidth, 64QAM (-26dBc BW)

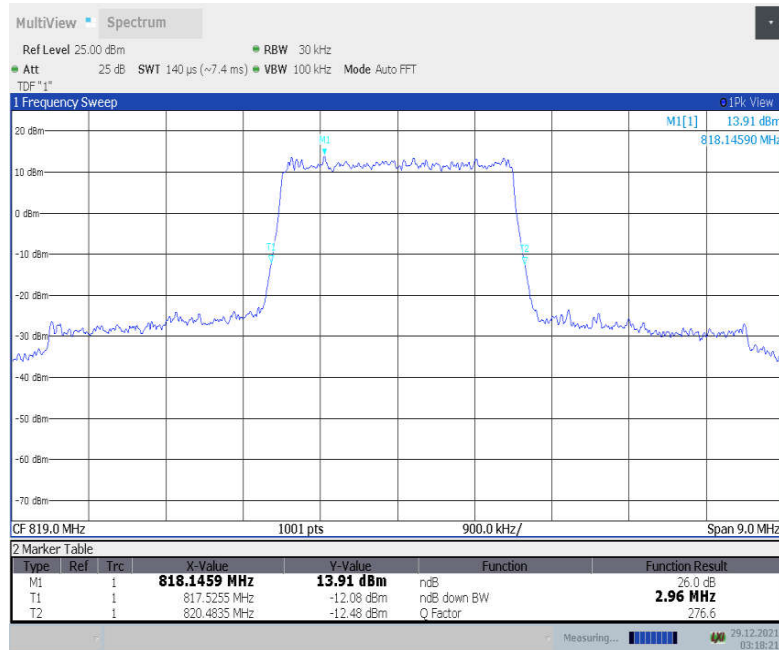




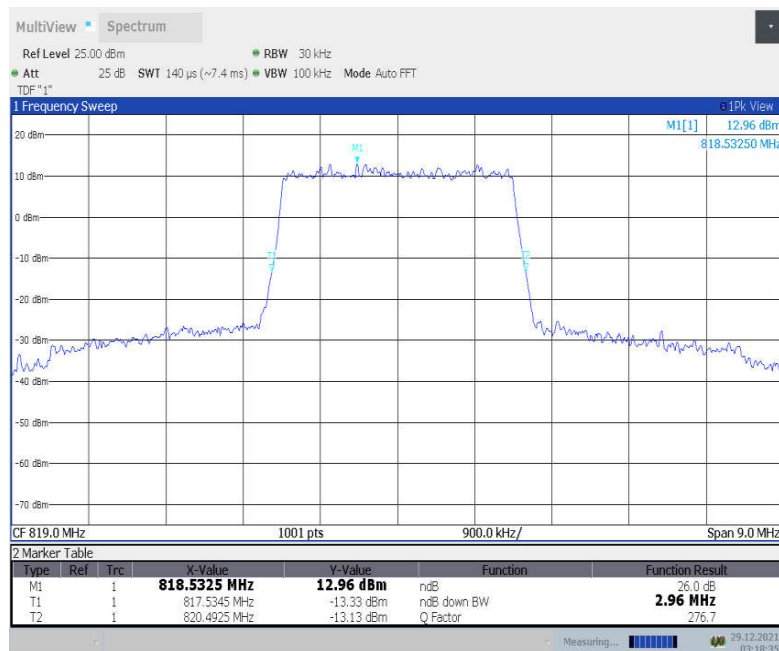
**LTE band 26(814MHz-824MHz), 3MHz (-26dBc BW)**

Frequency(MHz)	Emission Bandwidth (-26dBc BW)(MHz)		
	836.5	QPSK	16QAM
	2.96	2.96	2.96

**LTE band 26(814MHz-824MHz), 3MHz Bandwidth, QPSK (-26dBc BW)**

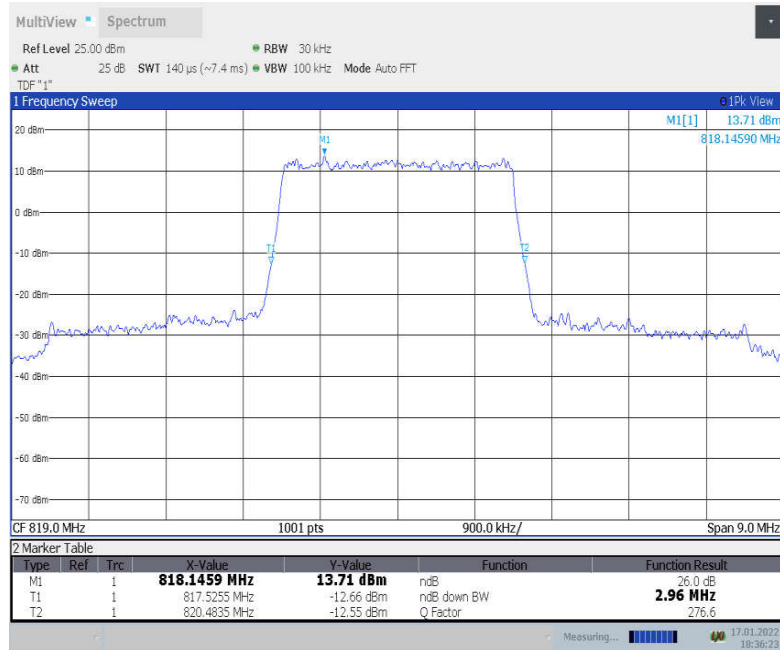


**LTE band 26(814MHz-824MHz), 3MHz Bandwidth, 16QAM (-26dBc BW)**





LTE band 26(814MHz-824MHz), 3MHz Bandwidth, 64QAM (-26dBc BW)



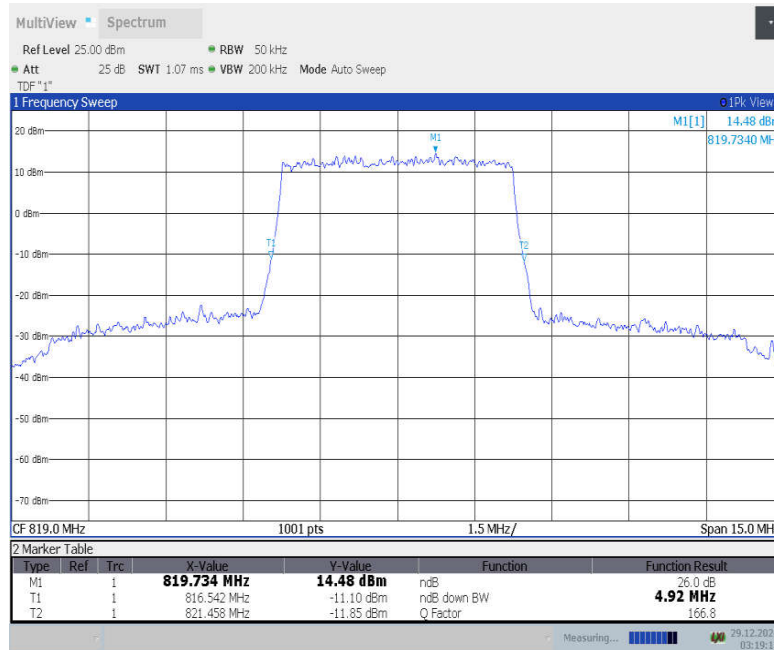




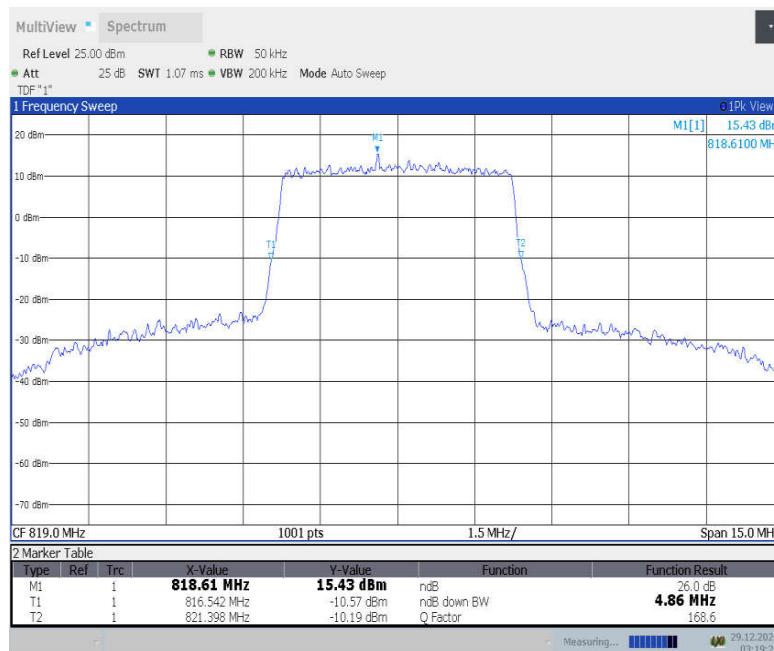
**LTE band 26(814MHz-824MHz), 5MHz (-26dBc BW)**

Frequency(MHz)	Emission Bandwidth (-26dBc BW)(MHz)		
	836.5	QPSK	16QAM
4.92		4.86	4.92

**LTE band 26(814MHz-824MHz), 5MHz Bandwidth, QPSK (-26dBc BW)**

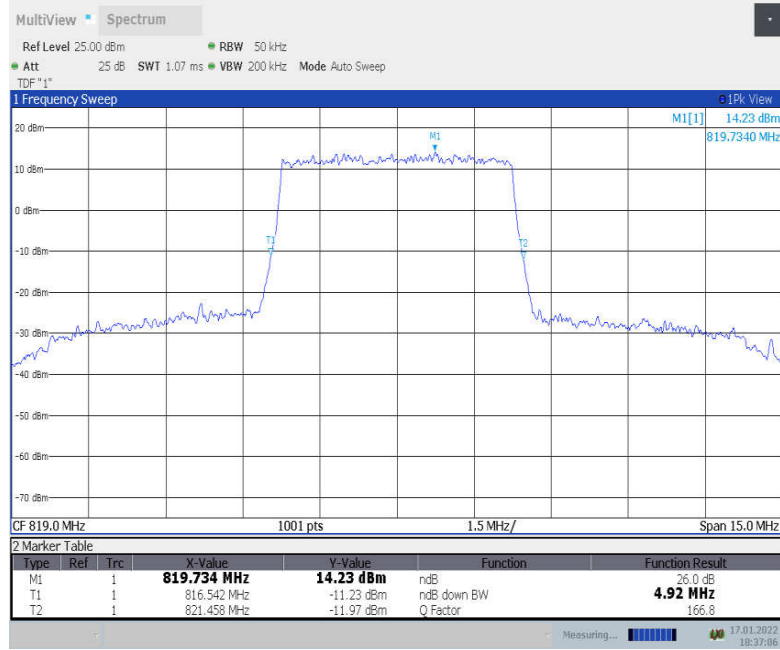


**LTE band 26(814MHz-824MHz), 5MHz Bandwidth,16QAM (-26dBc BW)**





LTE band 26(814MHz-824MHz), 5MHz Bandwidth,64QAM (-26dBc BW)

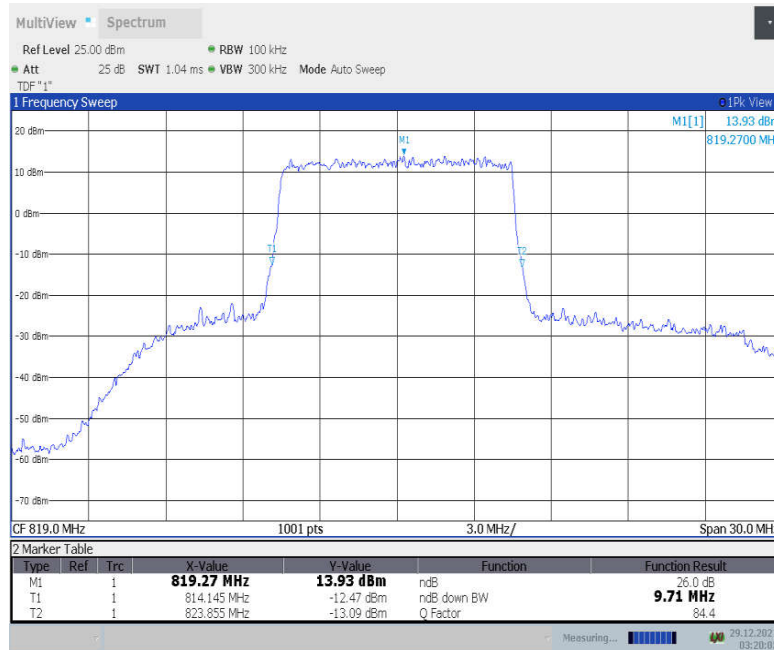




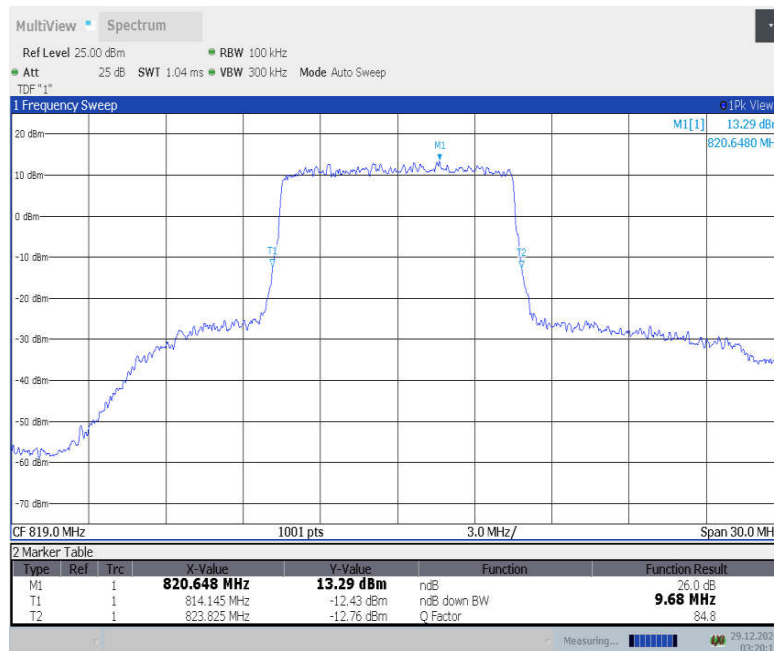
**LTE band 26(814MHz-824MHz), 10MHz (-26dBc BW)**

Frequency(MHz)	Emission Bandwidth (-26dBc BW)(MHz)		
836.5	QPSK	16QAM	64QAM
	9.71	9.68	9.74

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

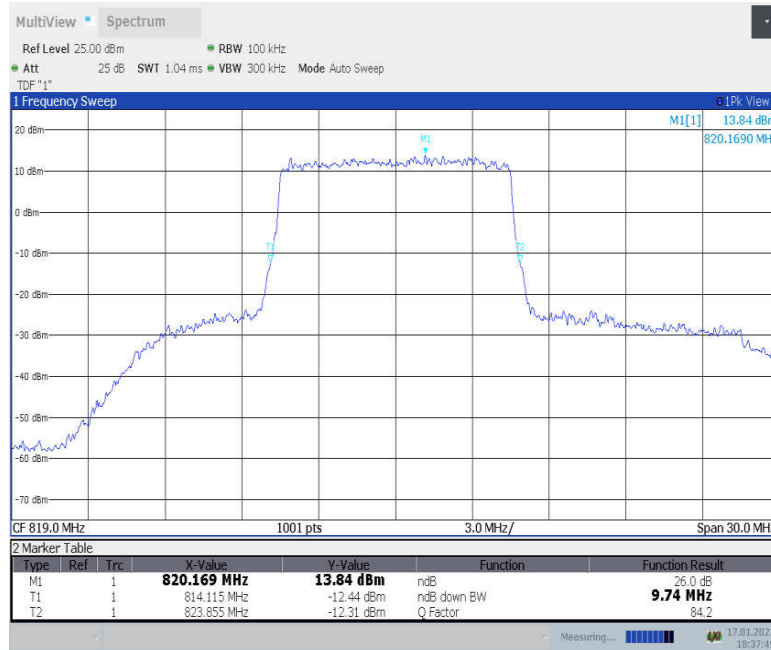


**LTE band 26(814MHz-824MHz), 10MHz Bandwidth, 16QAM (-26dBc BW)**





LTE band 26(814MHz-824MHz), 10MHz Bandwidth, 64QAM (-26dBc BW)

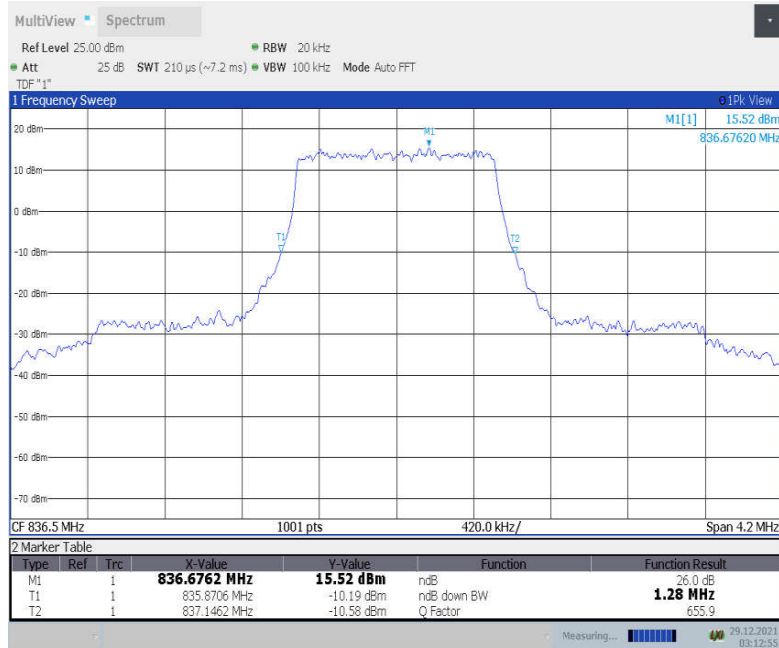




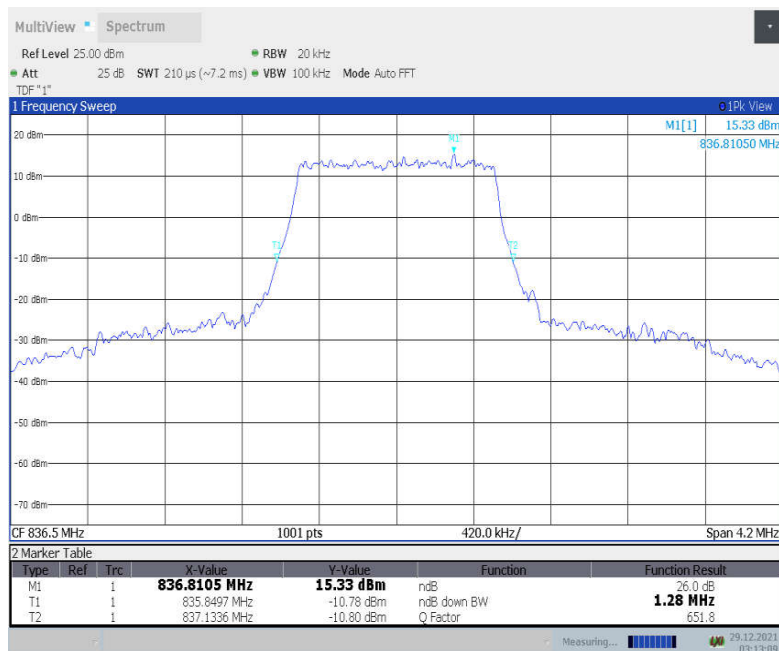
**LTE band 26(824MHz-849MHz), 1.4MHz (-26dBc BW)**

Frequency(MHz)	Emission Bandwidth (-26dBc BW)(MHz)		
	QPSK	16QAM	64QAM
836.5	1.28	1.28	1.27

**LTE band 26(824MHz-849MHz), 1.4MHz Bandwidth, QPSK (-26dBc BW)**

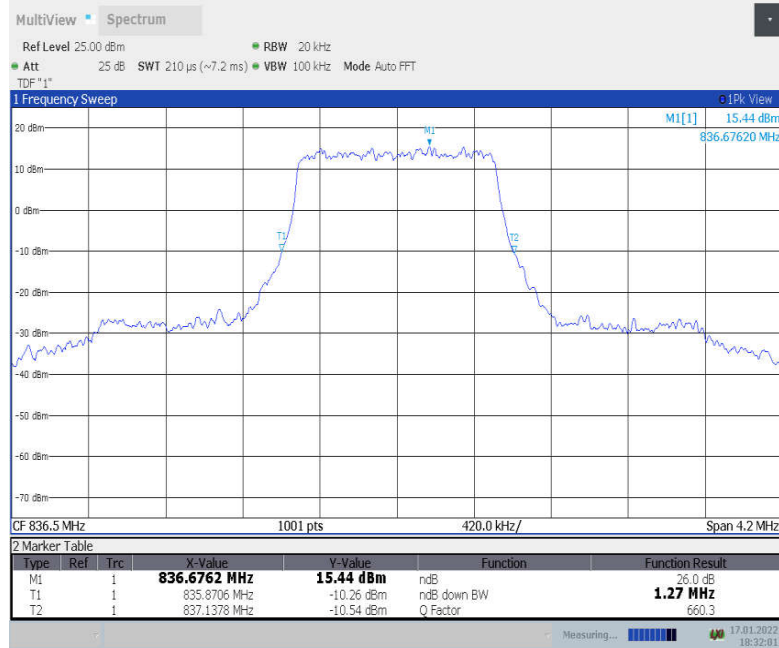


**LTE band 26(824MHz-849MHz), 1.4MHz Bandwidth, 16QAM (-26dBc BW)**





LTE band 26(824MHz-849MHz), 1.4MHz Bandwidth, 64QAM (-26dBc BW)

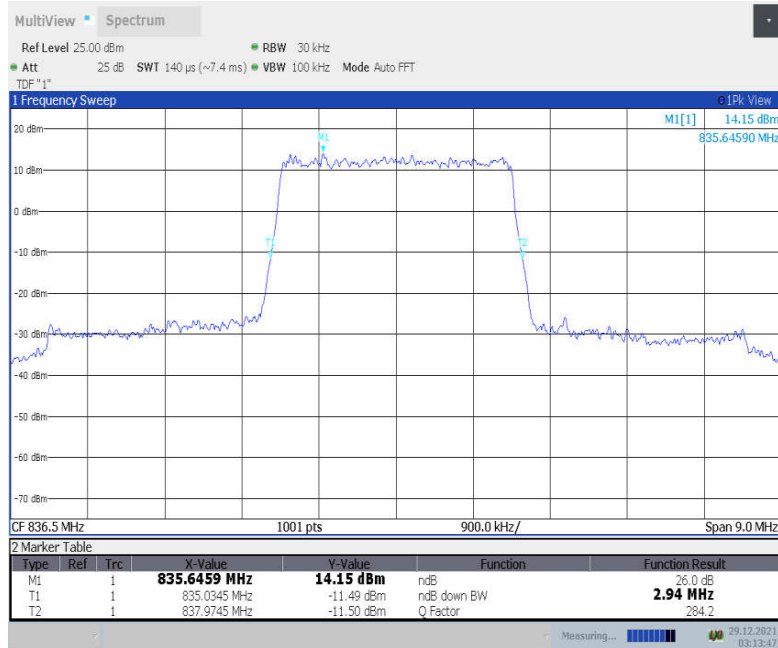




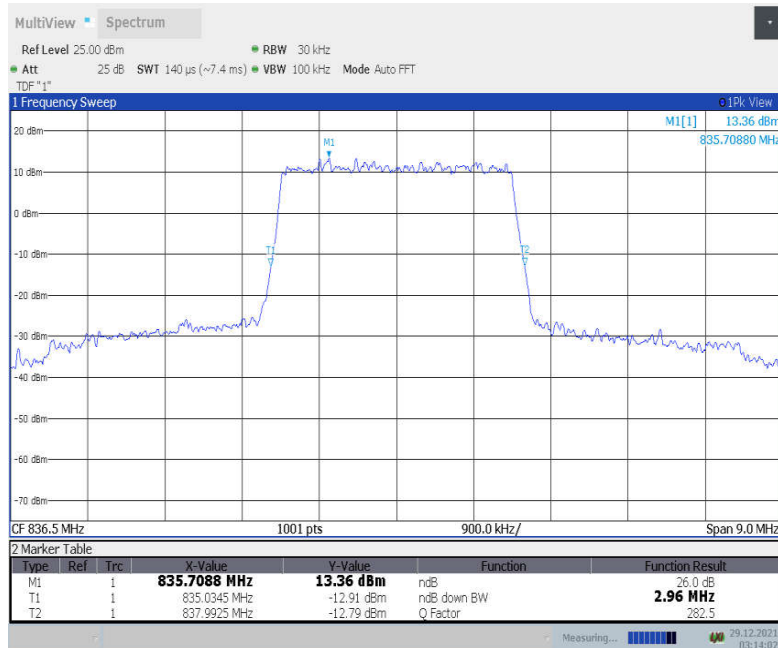
**LTE band 26(824MHz-849MHz), 3MHz (-26dBc BW)**

Frequency(MHz)	Emission Bandwidth (-26dBc BW)(MHz)		
	QPSK	16QAM	64QAM
836.5	2.94	2.96	2.95

**LTE band 26(824MHz-849MHz), 3MHz Bandwidth, QPSK (-26dBc BW)**

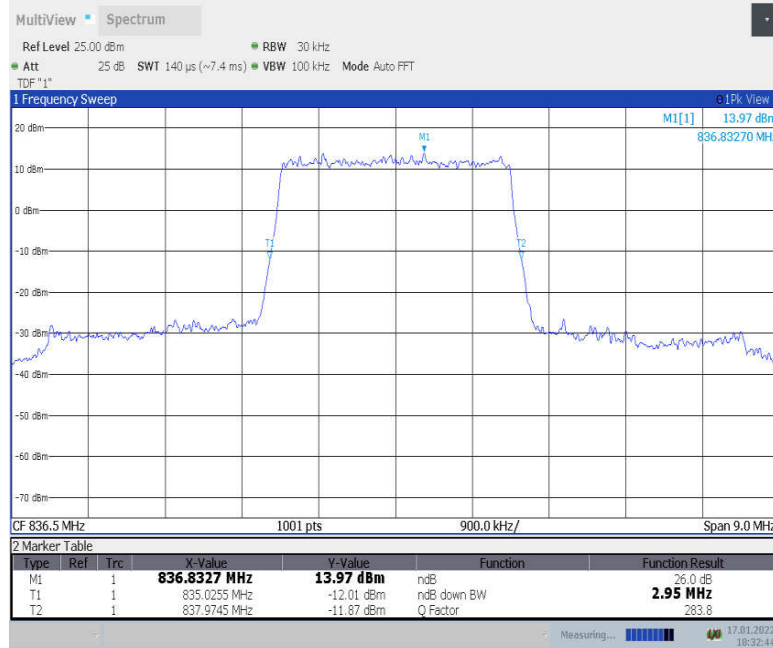


**LTE band 26(824MHz-849MHz), 3MHz Bandwidth, 16QAM (-26dBc BW)**





LTE band 26(824MHz-849MHz), 3MHz Bandwidth, 64QAM (-26dBc BW)



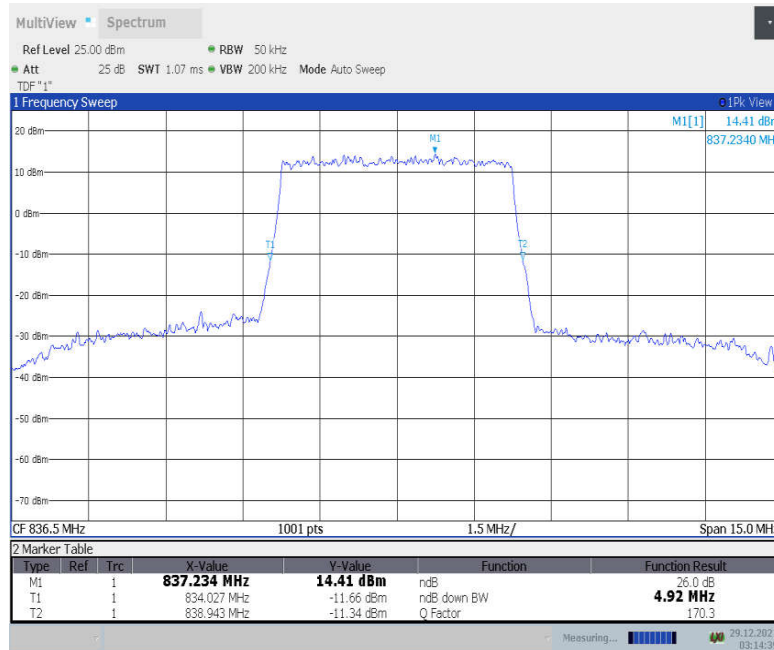




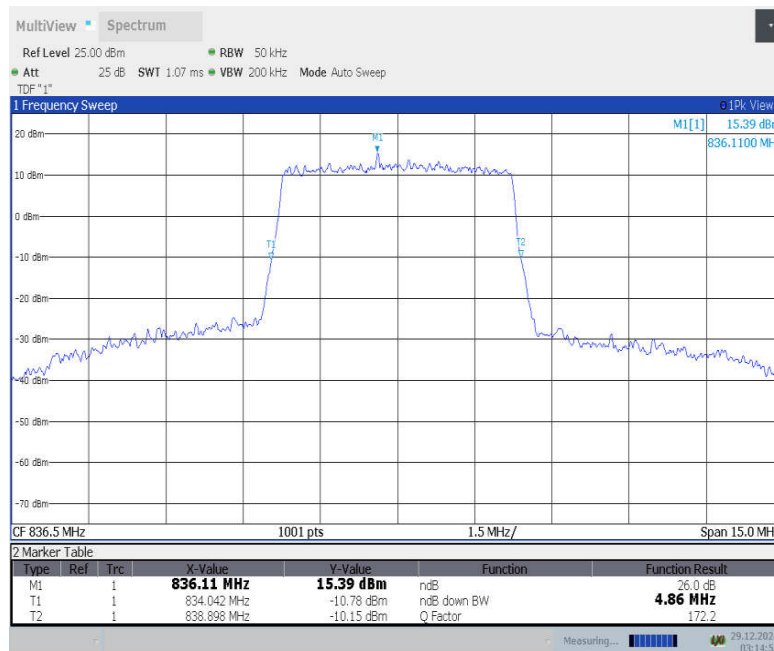
**LTE band 26(824MHz-849MHz), 5MHz (-26dBc BW)**

Frequency(MHz)	Emission Bandwidth (-26dBc BW)(MHz)		
836.5	QPSK	16QAM	64QAM
	4.92	4.86	4.92

**LTE band 26(824MHz-849MHz), 5MHz Bandwidth, QPSK (-26dBc BW)**

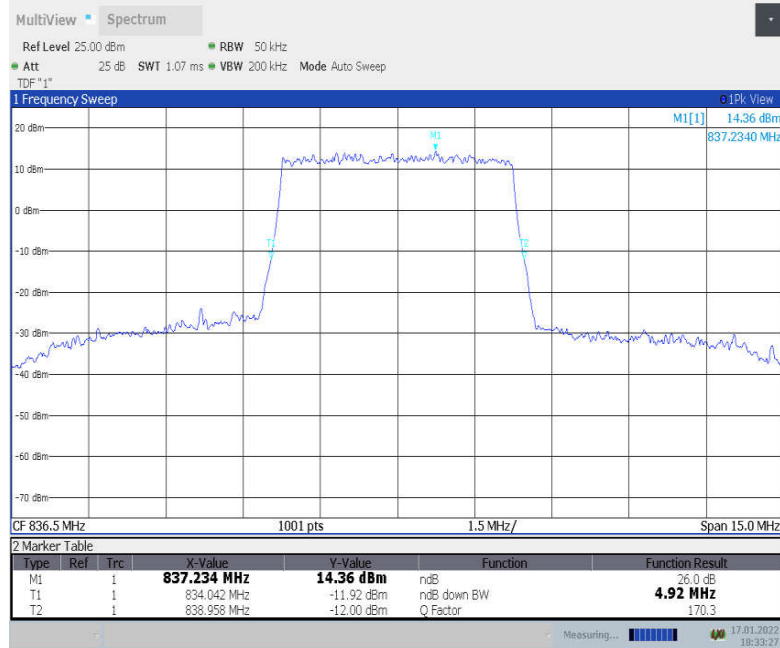


**LTE band 26(824MHz-849MHz), 5MHz Bandwidth,16QAM (-26dBc BW)**





LTE band 26(824MHz-849MHz), 5MHz Bandwidth,64QAM (-26dBc BW)

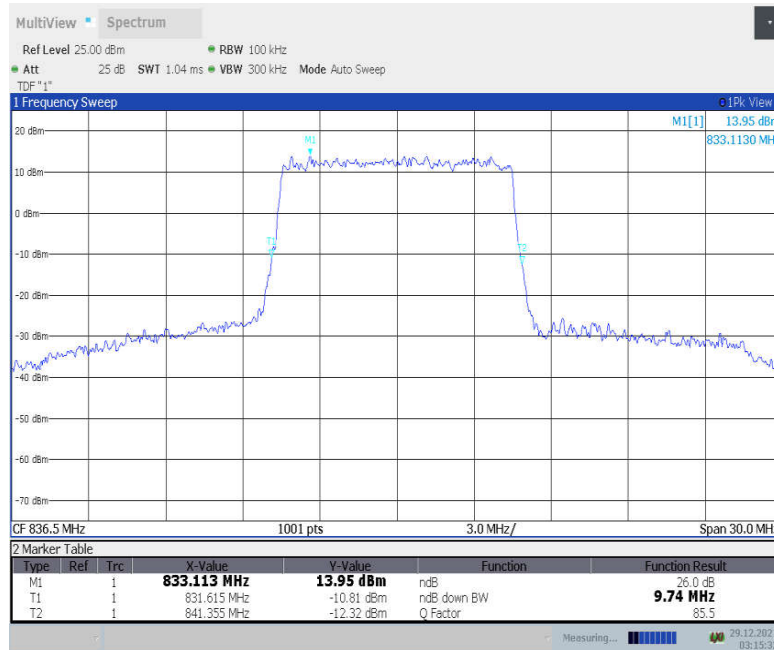




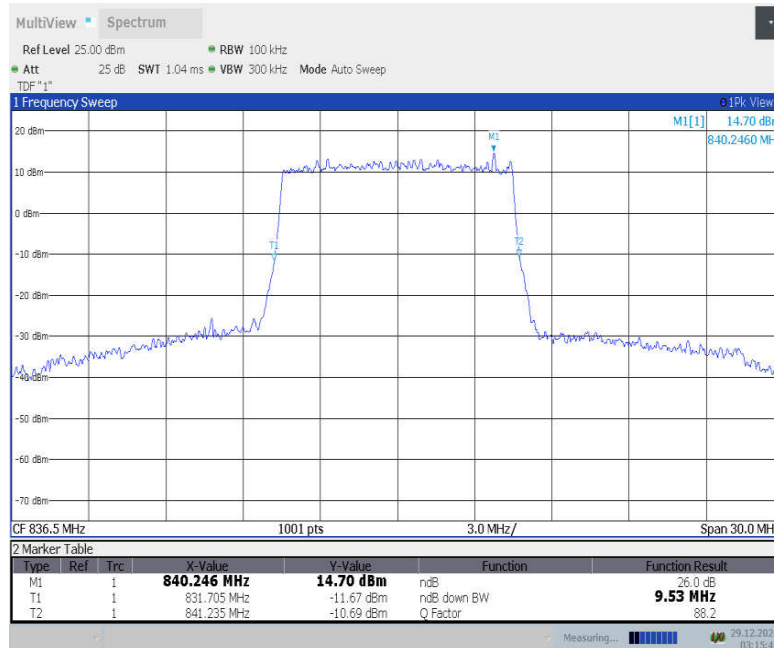
**LTE band 26(824MHz-849MHz), 10MHz (-26dBc BW)**

Frequency(MHz)	Emission Bandwidth (-26dBc BW)(MHz)		
836.5	QPSK	16QAM	64QAM
	9.74	9.53	9.77

**LTE band 26(824MHz-849MHz), 10MHz Bandwidth, QPSK (-26dBc BW)**

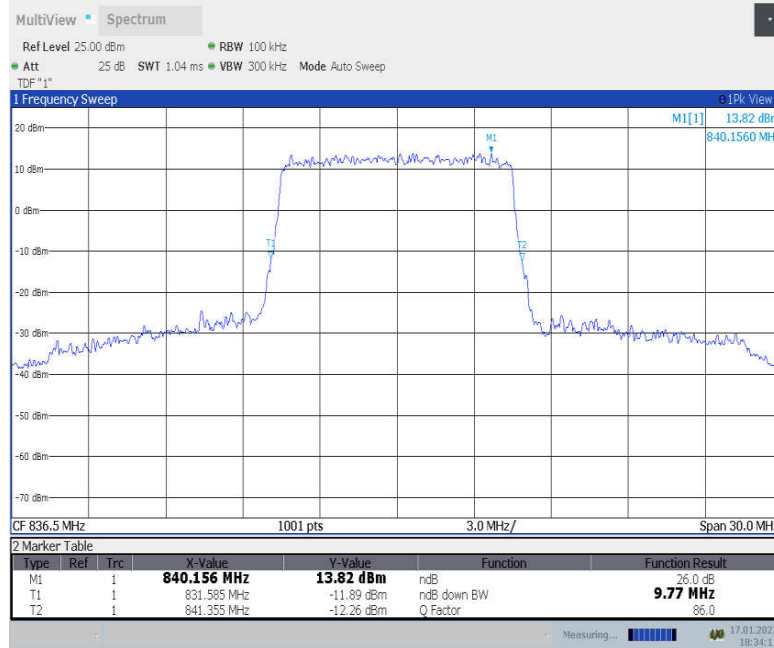


**LTE band 26(824MHz-849MHz), 10MHz Bandwidth, 16QAM (-26dBc BW)**





**LTE band 26(824MHz-849MHz), 10MHz Bandwidth, 64QAM (-26dBc BW)**

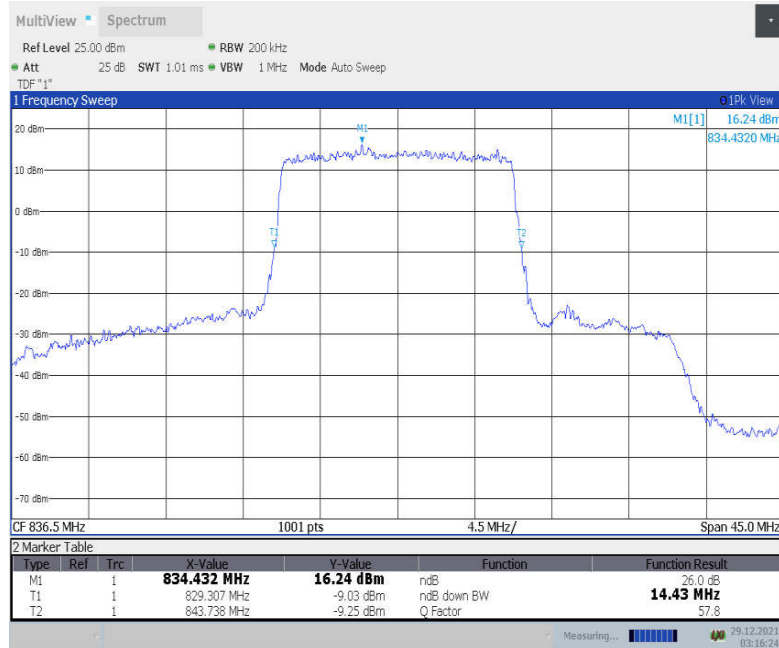




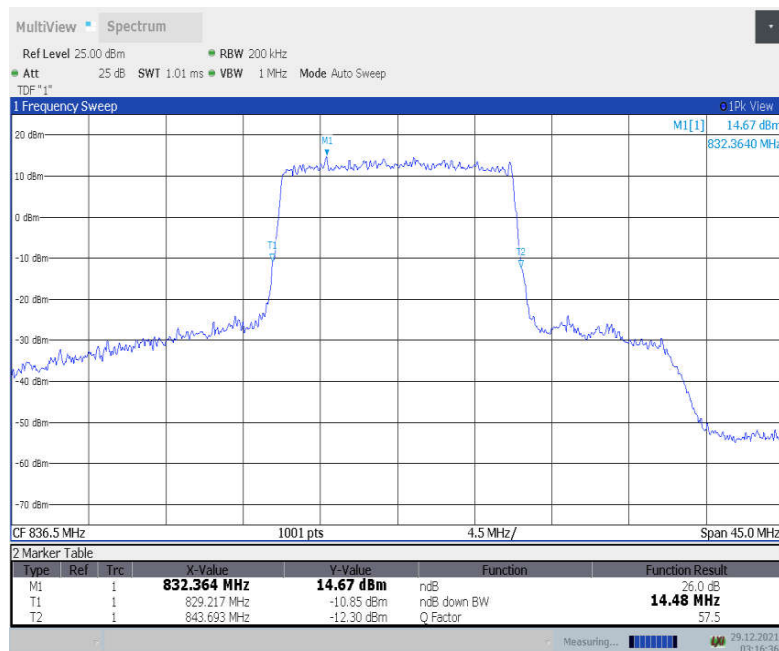
**LTE band 26(824MHz-849MHz), 15MHz (-26dBc BW)**

Frequency(MHz)	Emission Bandwidth (-26dBc BW)(MHz)		
	QPSK	16QAM	64QAM
836.5	14.43	14.48	14.39

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

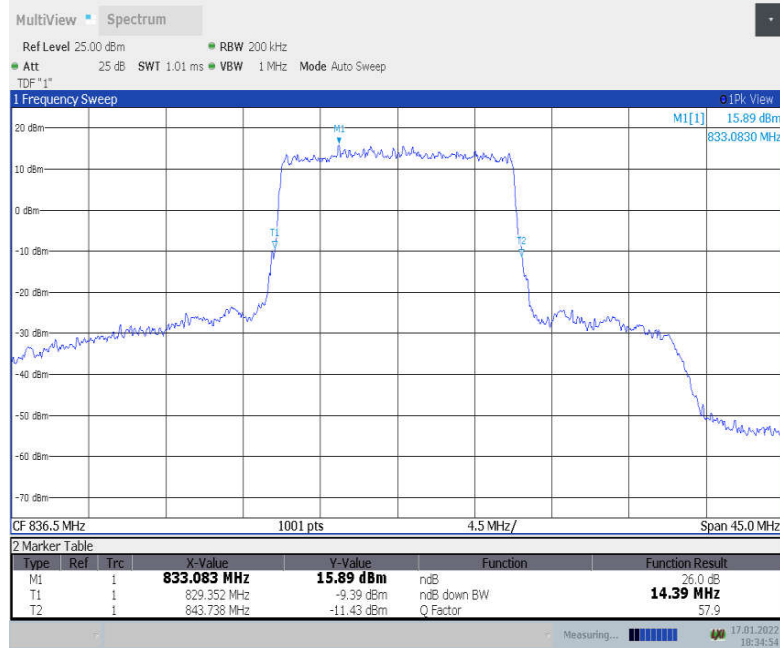


**LTE band 26(824MHz-849MHz), 15MHz Bandwidth, 16QAM (-26dBc BW)**





LTE band 26(824MHz-849MHz), 15MHz Bandwidth, 64QAM (-26dBc BW)

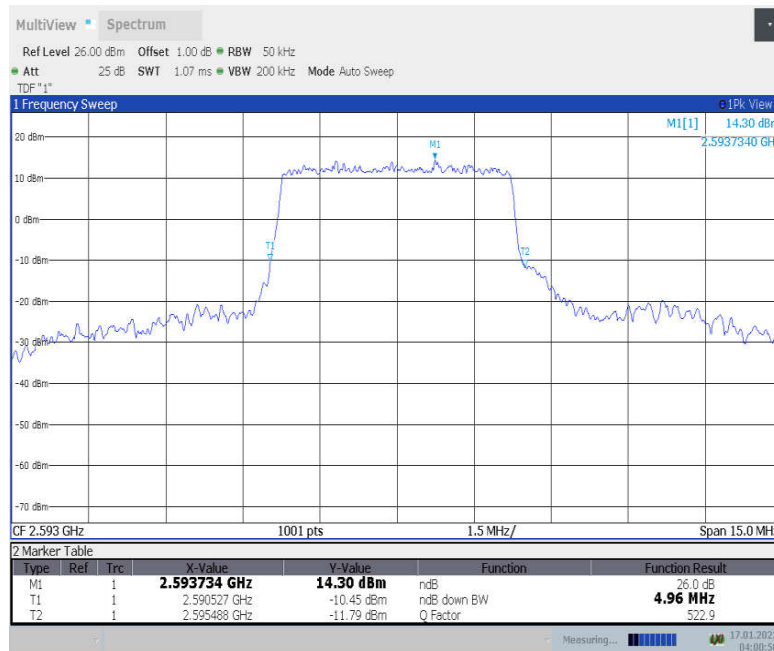




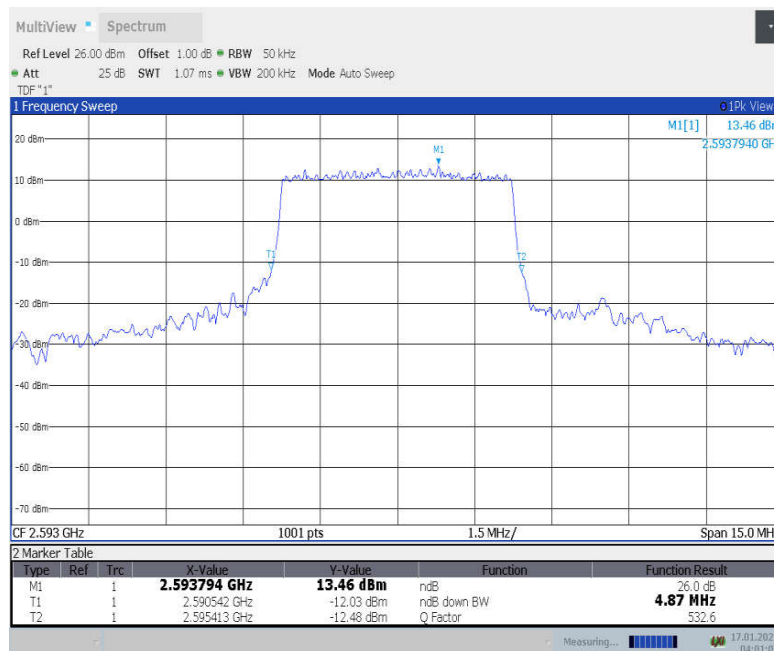
**LTE band 41, 5MHz (-26dBc BW)**

Frequency(MHz)	Emission Bandwidth (-26dBc BW)(MHz)		
	QPSK	16QAM	64QAM
2593.0	4.96	4.87	4.93

**LTE band 41, 5MHz Bandwidth, QPSK (-26dBc BW)**

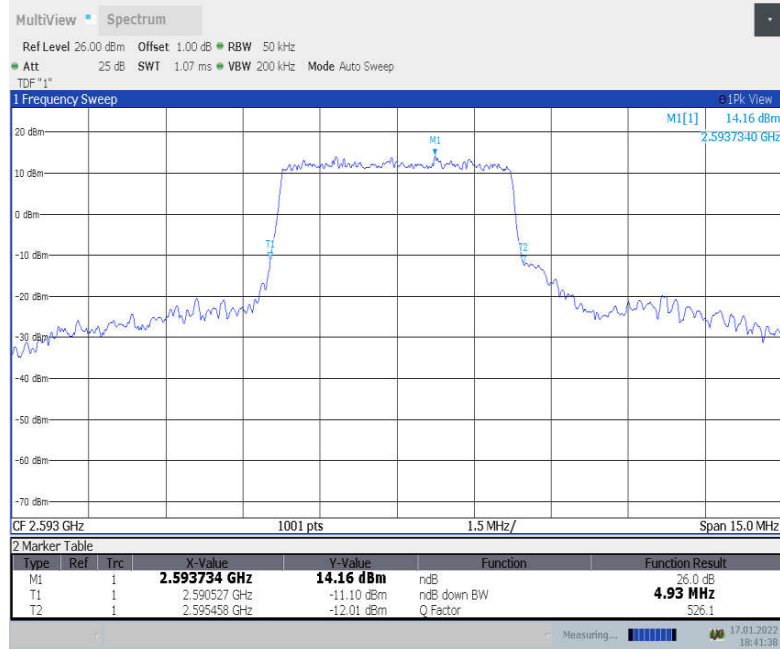


**LTE band 41, 5MHz Bandwidth, 16QAM (-26dBc BW)**





**LTE band 41, 5MHz Bandwidth,64QAM (-26dBc BW)**



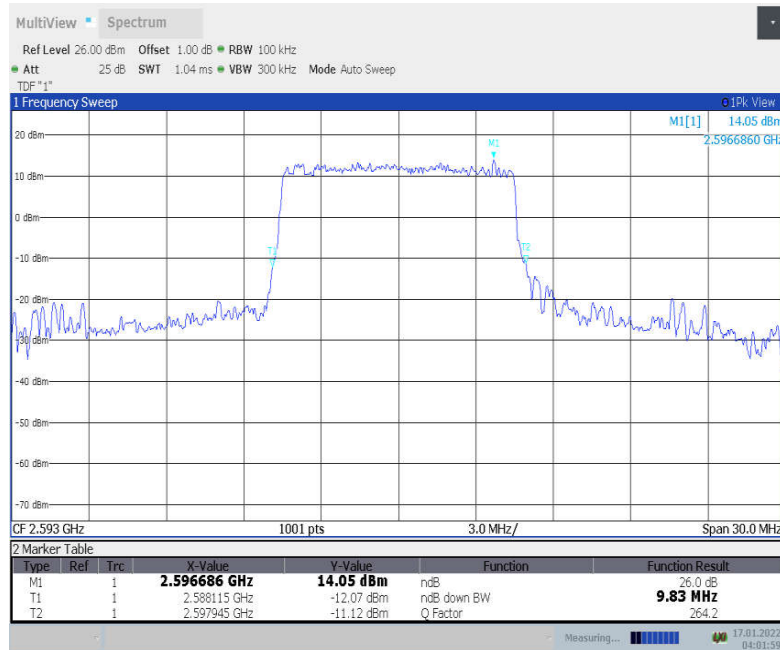




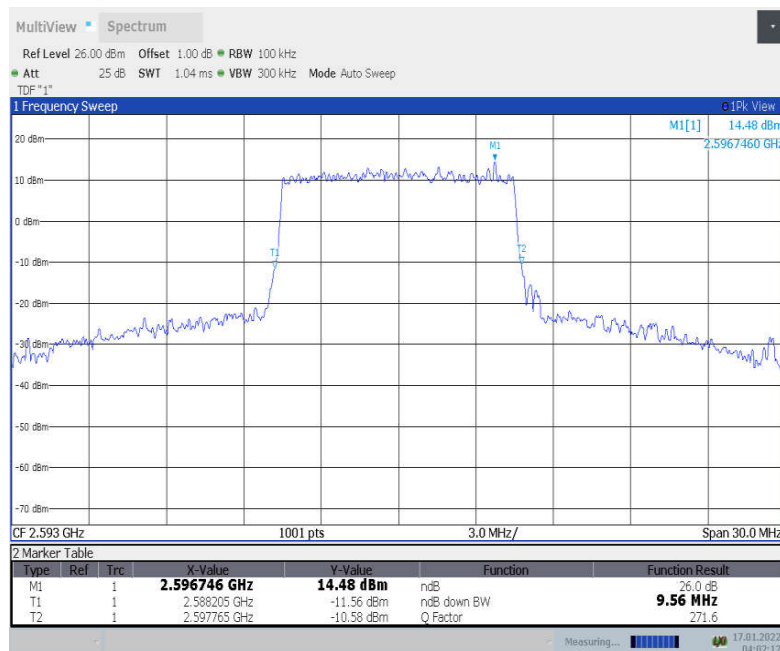
**LTE band 41, 10MHz (-26dBc BW)**

Frequency(MHz)	Emission Bandwidth (-26dBc BW)(MHz)		
2593.0	QPSK	16QAM	64QAM
	9.83	9.56	9.77

**LTE band 41, 10MHz Bandwidth, QPSK (-26dBc BW)**

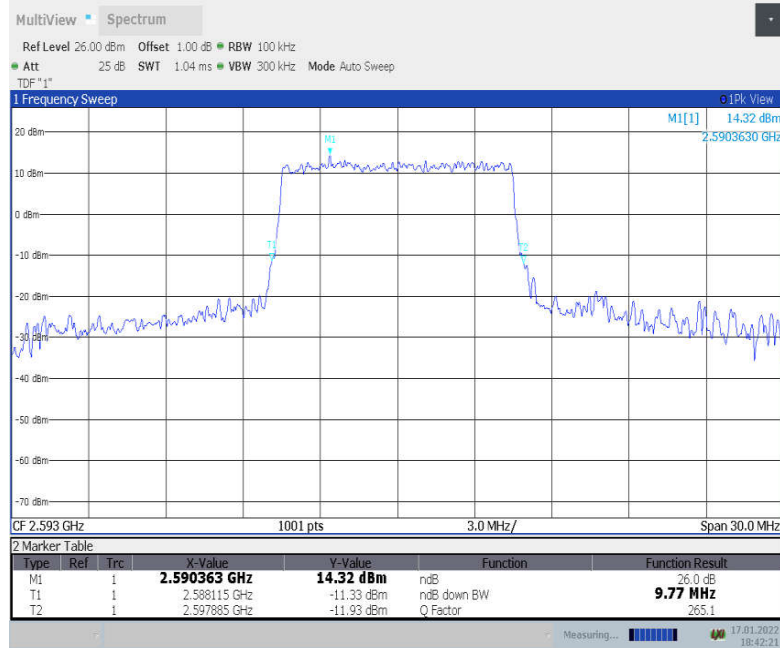


**LTE band 41, 10MHz Bandwidth, 16QAM (-26dBc BW)**





**LTE band 41, 10MHz Bandwidth, 64QAM (-26dBc BW)**

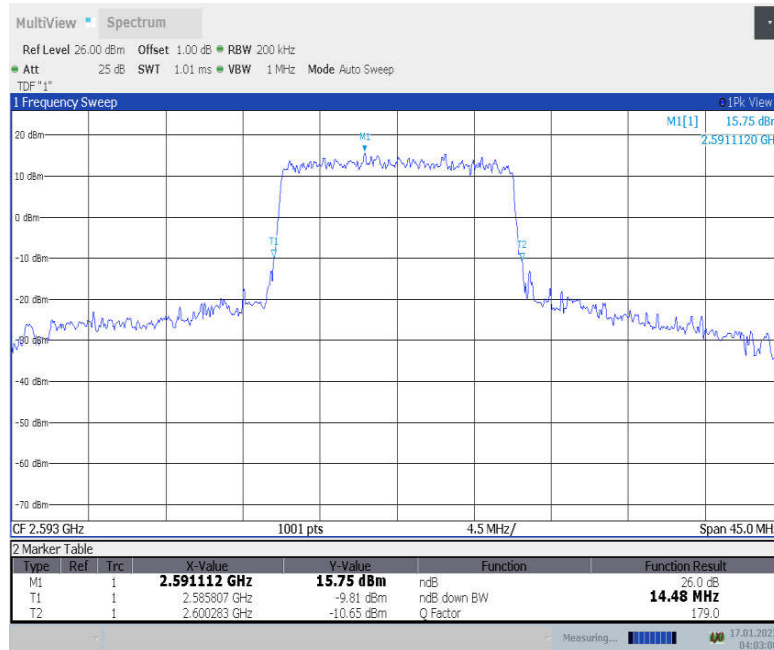




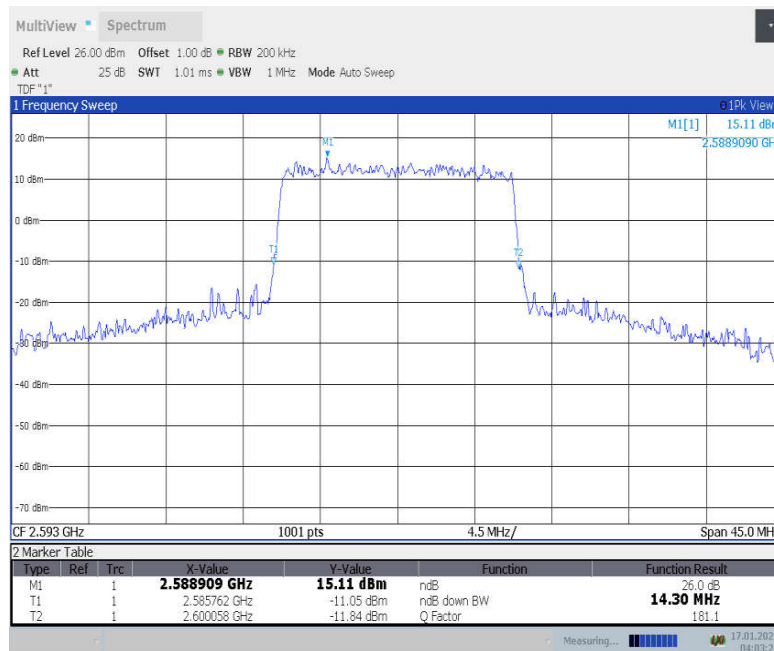
**LTE band 41, 15MHz (-26dBc BW)**

Frequency(MHz)	Emission Bandwidth (-26dBc BW)(MHz)		
2593.0	QPSK	16QAM	64QAM
	14.48	14.30	14.43

**LTE band 41, 15MHz Bandwidth, QPSK (-26dBc BW)**

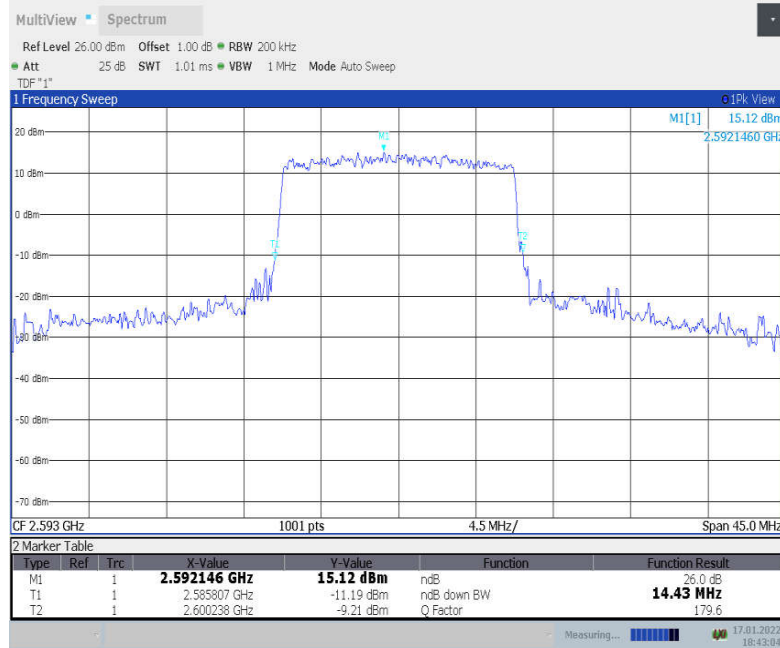


**LTE band 41, 15MHz Bandwidth, 16QAM (-26dBc BW)**





**LTE band 41, 15MHz Bandwidth, 64QAM (-26dBc BW)**

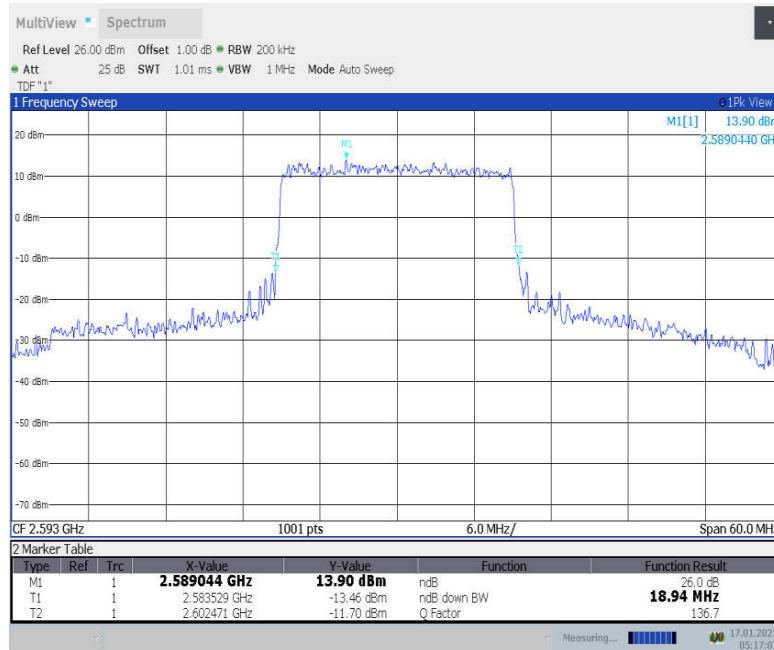




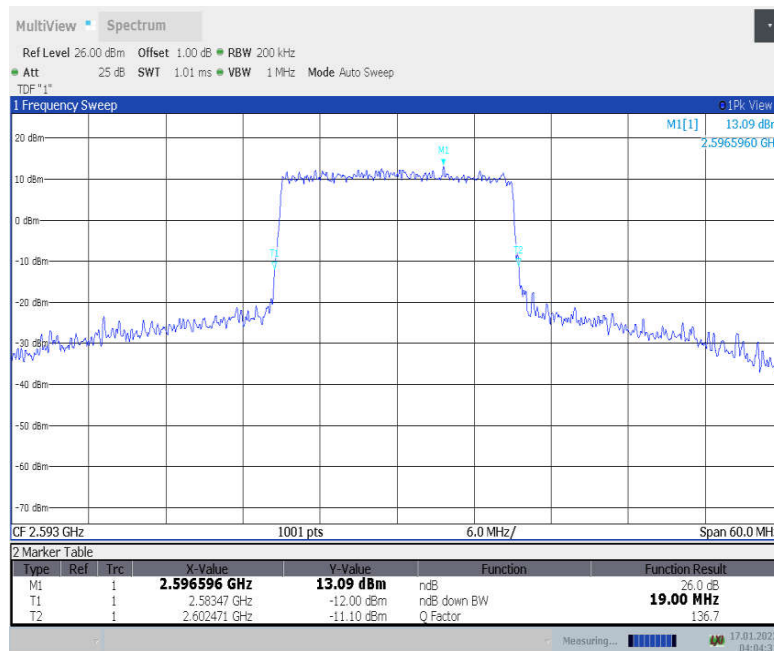
**LTE band 41, 20MHz (-26dBc BW)**

Frequency(MHz)	Emission Bandwidth (-26dBc BW)(MHz)		
2593.0	QPSK	16QAM	64QAM
	18.94	19.00	18.94

**LTE band 41, 20MHz Bandwidth, QPSK (-26dBc BW)**

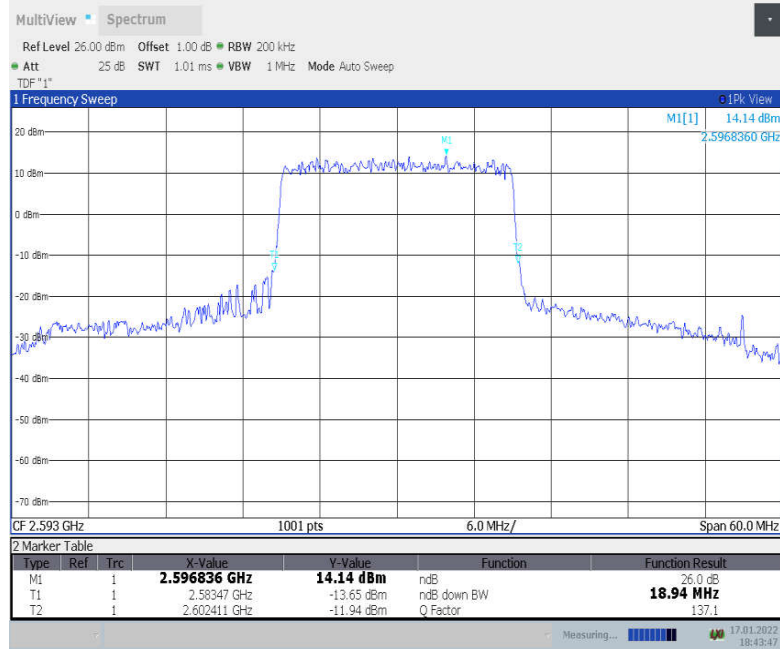


**LTE band 41, 20MHz Bandwidth, 16QAM (-26dBc BW)**





**LTE band 41, 20MHz Bandwidth, 64QAM (-26dBc BW)**

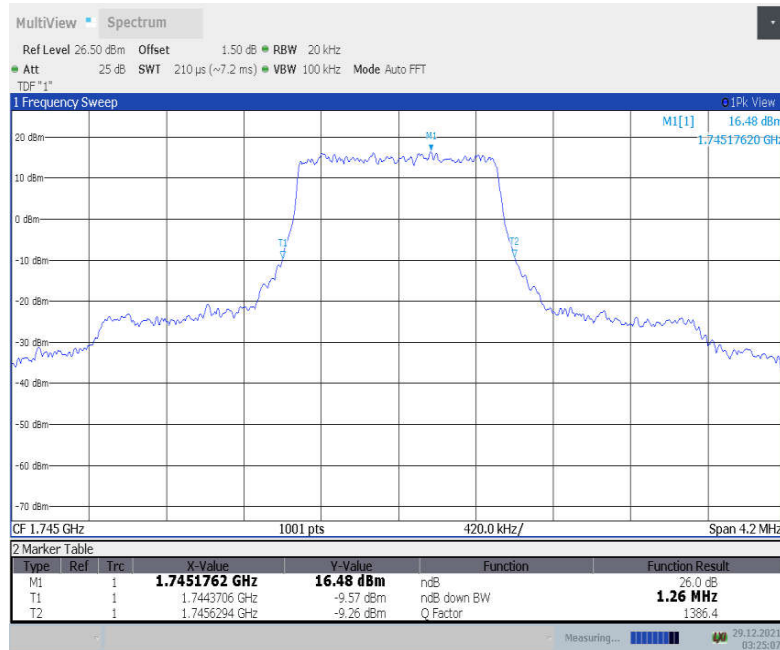




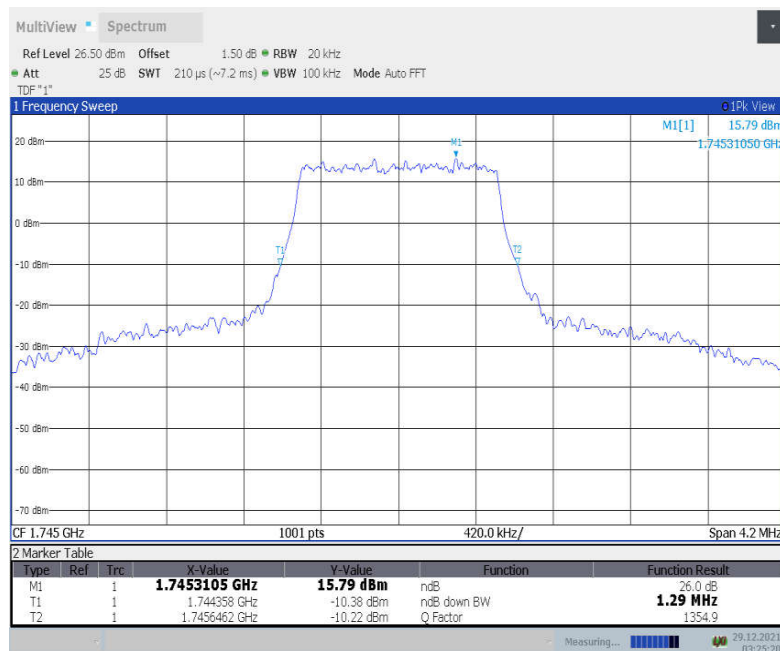
**LTE band 66, 1.4MHz (-26dBc BW)**

Frequency(MHz)	Emission Bandwidth (-26dBc BW)(MHz)		
	QPSK	16QAM	64QAM
1745.0	1.26	1.29	1.27

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

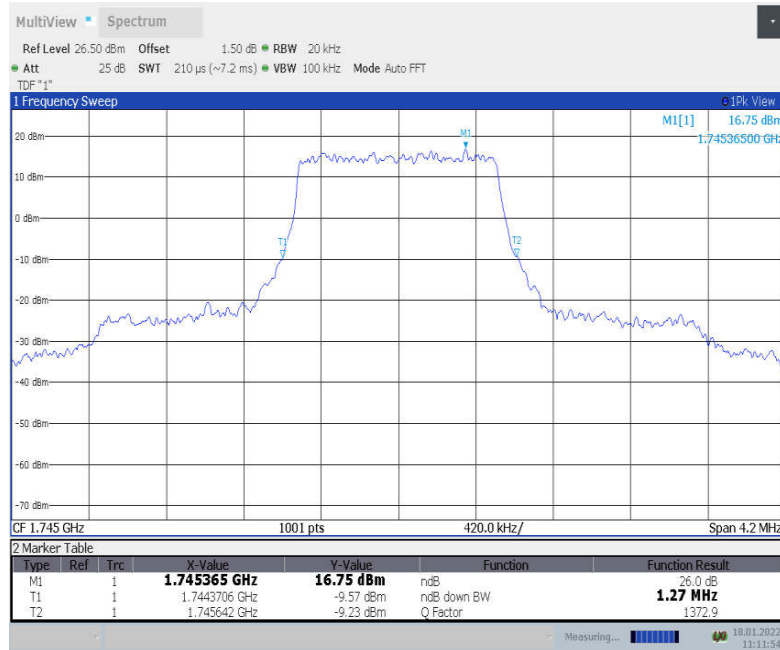


**LTE band 66, 1.4MHz Bandwidth, 16QAM (-26dBc BW)**





**LTE band 66, 1.4MHz Bandwidth, 64QAM (-26dBc BW)**



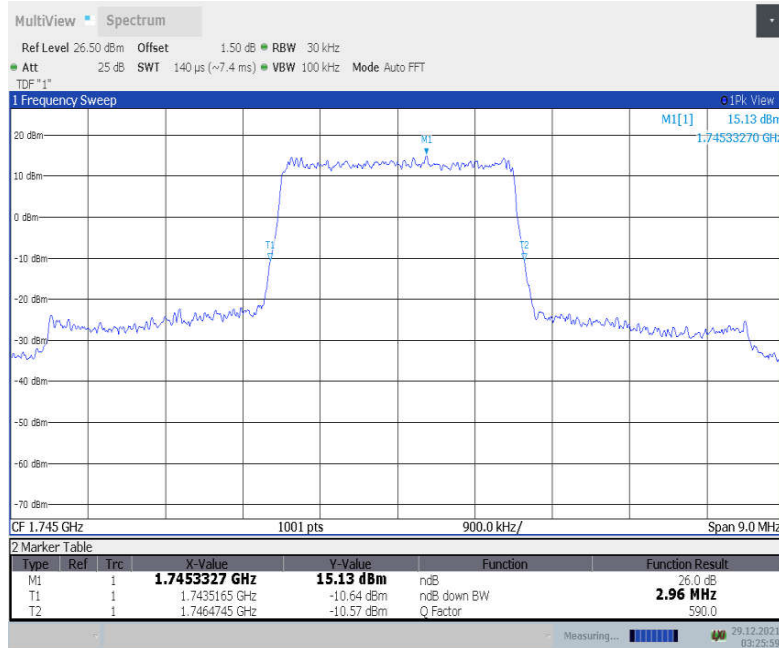




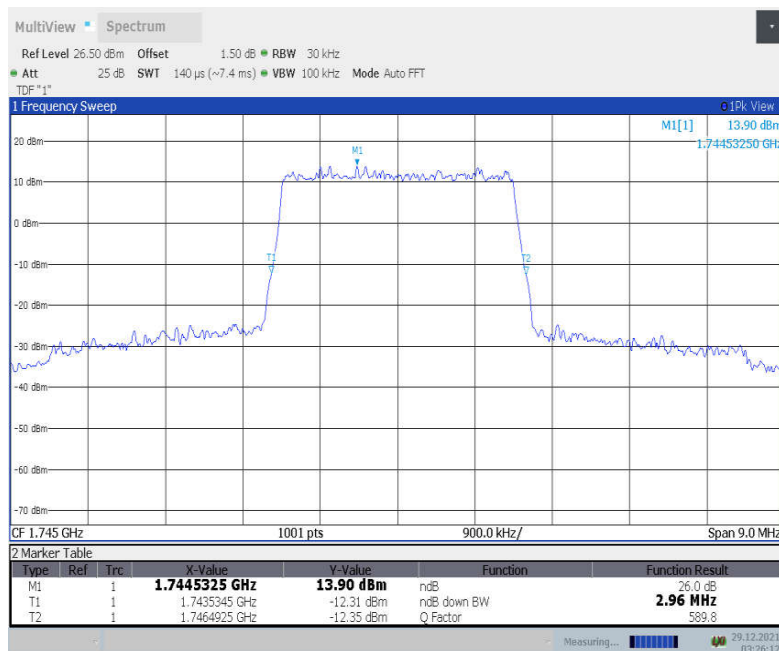
**LTE band 66, 3MHz (-26dBc BW)**

Frequency(MHz)	Emission Bandwidth (-26dBc BW)(MHz)		
1745.0	QPSK	16QAM	64QAM
	2.96	2.96	2.97

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

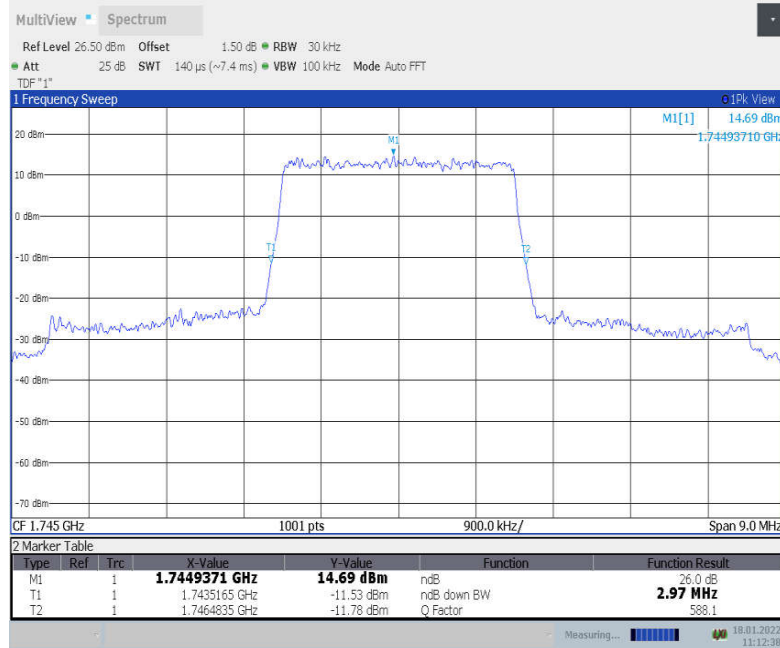


**LTE band 66, 3MHz Bandwidth, 16QAM (-26dBc BW)**





**LTE band 66, 3MHz Bandwidth, 64QAM (-26dBc BW)**

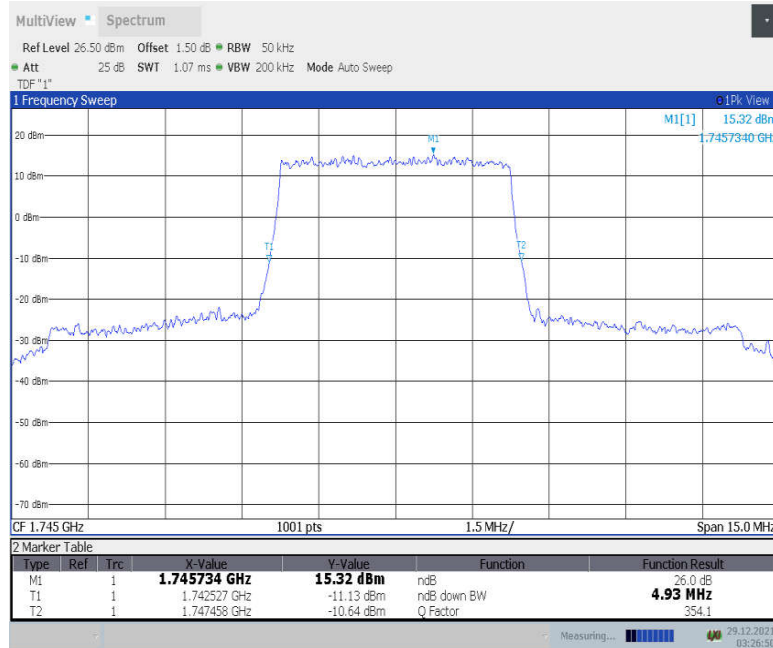




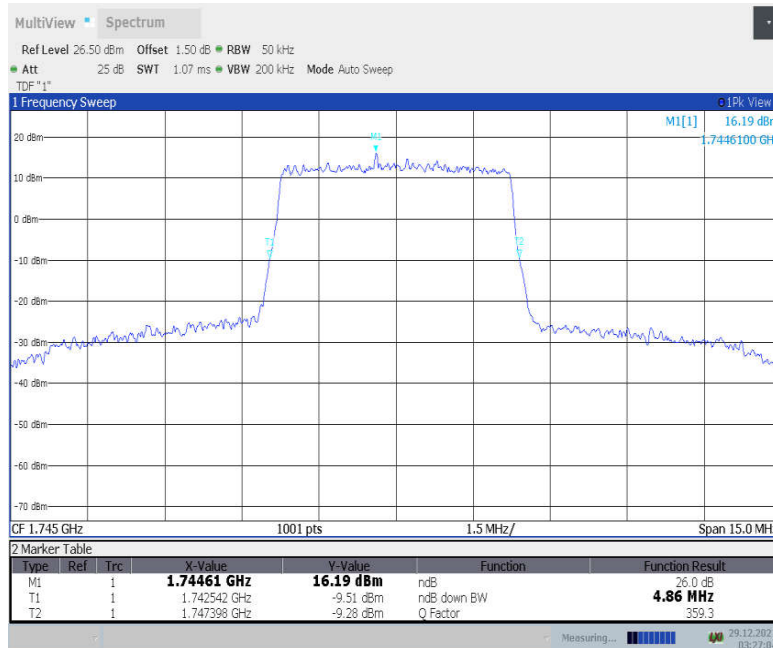
**LTE band 66, 5MHz (-26dBc BW)**

Frequency(MHz)	Emission Bandwidth (-26dBc BW)(MHz)		
1745.0	QPSK	16QAM	64QAM
	4.93	4.86	4.93

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

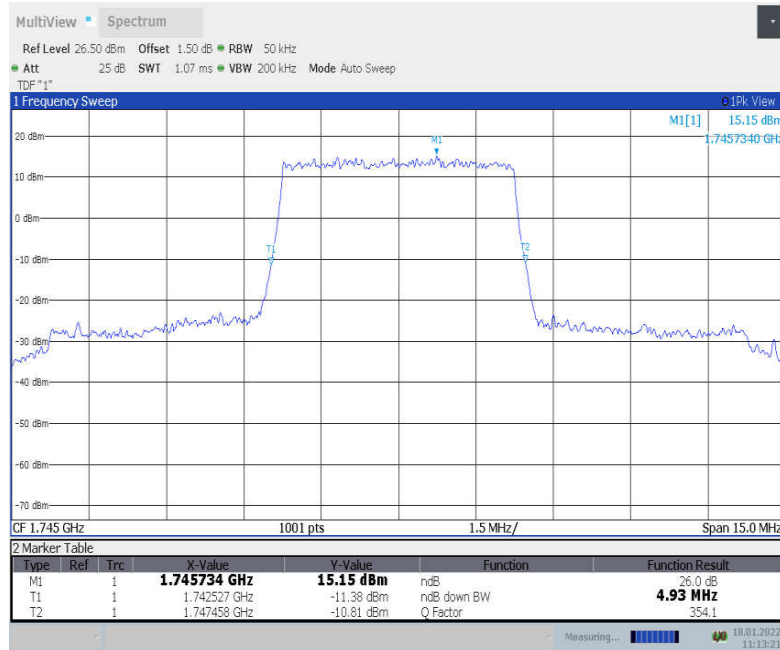


**LTE band 66, 5MHz Bandwidth, 16QAM (-26dBc BW)**





**LTE band 66, 5MHz Bandwidth, 64QAM (-26dBc BW)**

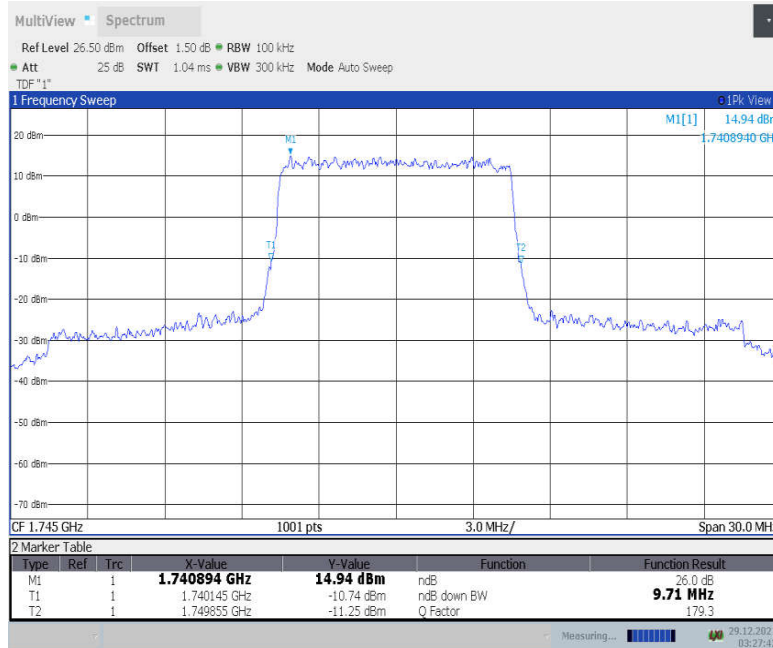




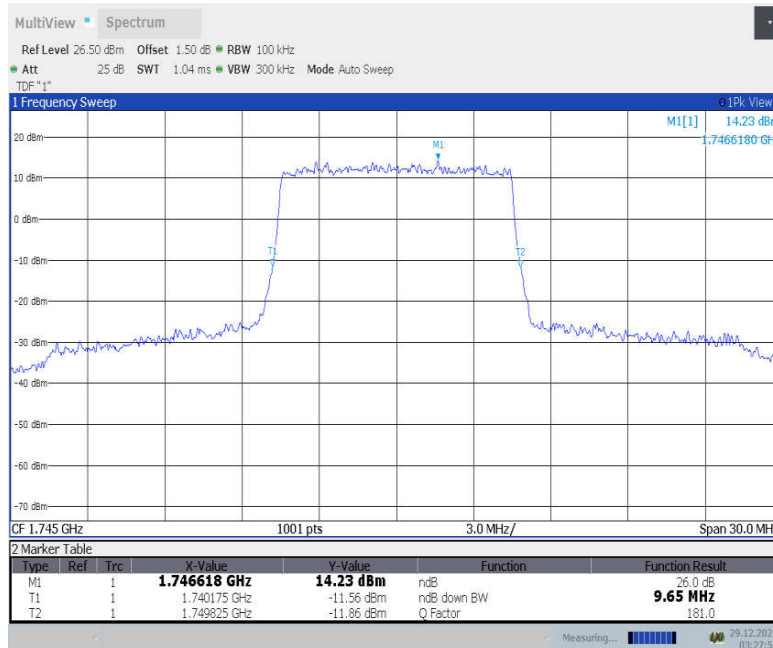
**LTE band 66, 10MHz (-26dBc BW)**

Frequency(MHz)	Emission Bandwidth (-26dBc BW)(MHz)		
1745.0	QPSK	16QAM	64QAM
	9.71	9.65	9.74

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

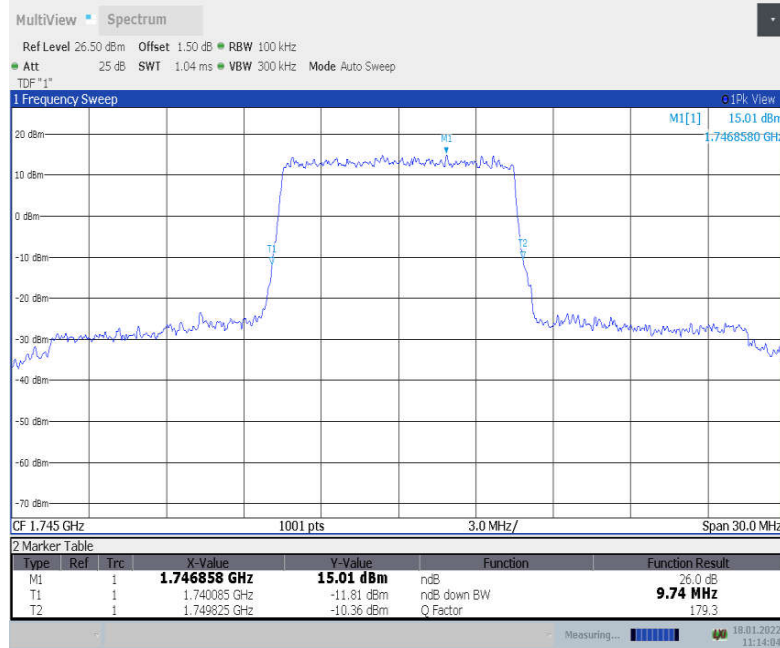


**LTE band 66, 10MHz Bandwidth, 16QAM (-26dBc BW)**





**LTE band 66, 10MHz Bandwidth, 64QAM (-26dBc BW)**

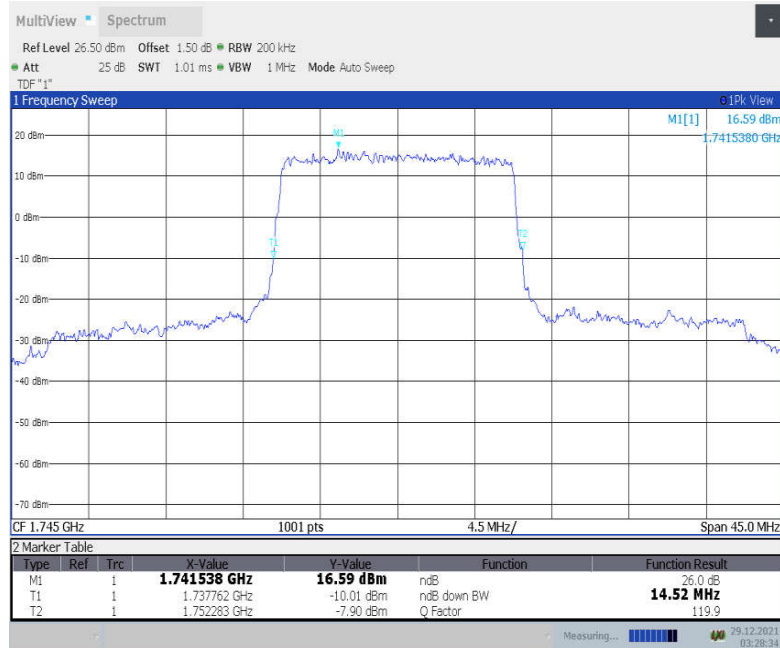




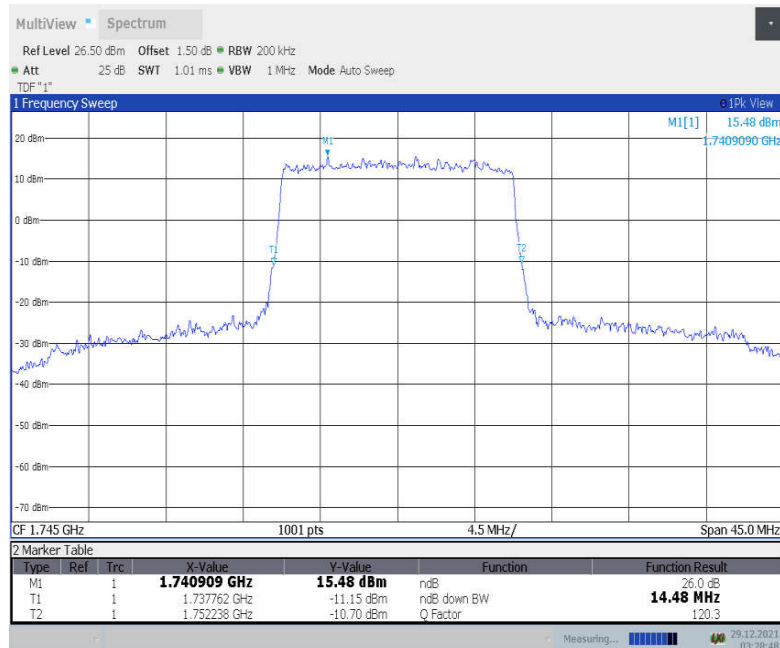
**LTE band 66, 15MHz (-26dBc BW)**

Frequency(MHz)	Emission Bandwidth (-26dBc BW)(MHz)		
1745.0	QPSK	16QAM	64QAM
	14.52	14.48	14.56

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

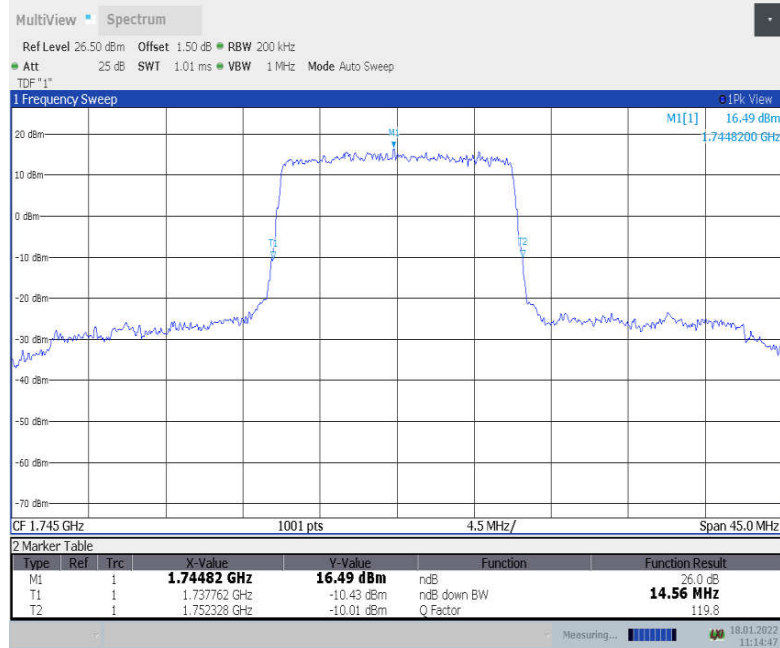


**LTE band 66, 15MHz Bandwidth, 16QAM (-26dBc BW)**





**LTE band 66, 15MHz Bandwidth, 64QAM (-26dBc BW)**



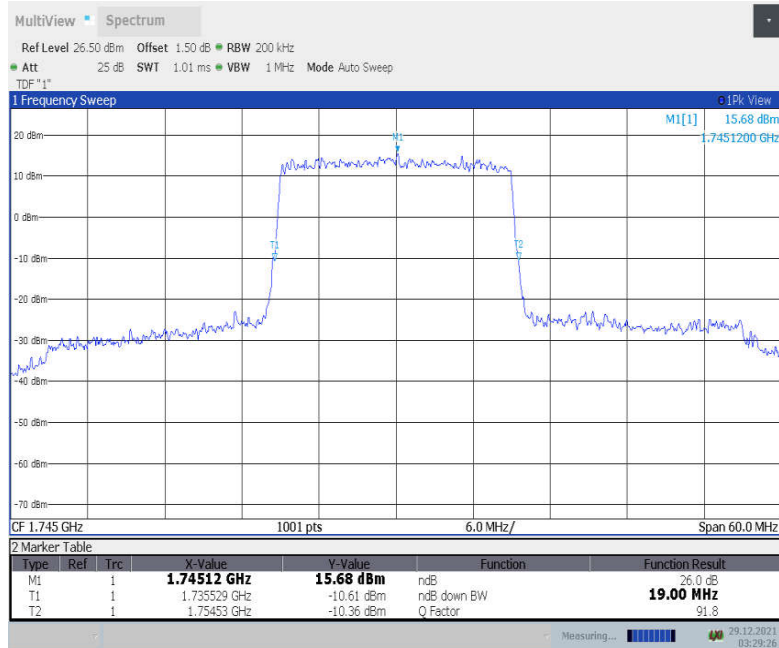




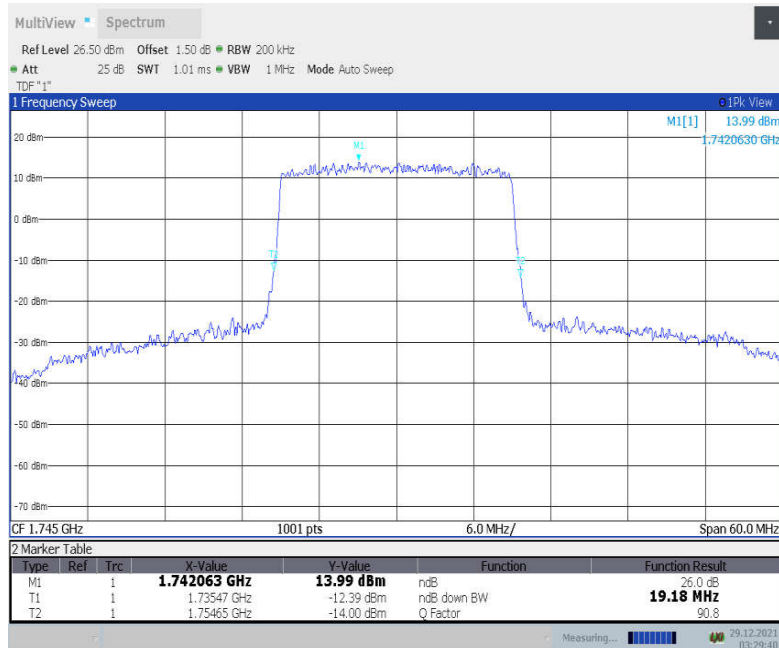
**LTE band 66, 20MHz (-26dBc BW)**

Frequency(MHz)	Emission Bandwidth (-26dBc BW)(MHz)		
1745.0	QPSK	16QAM	64QAM
	19.00	19.18	19.12

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

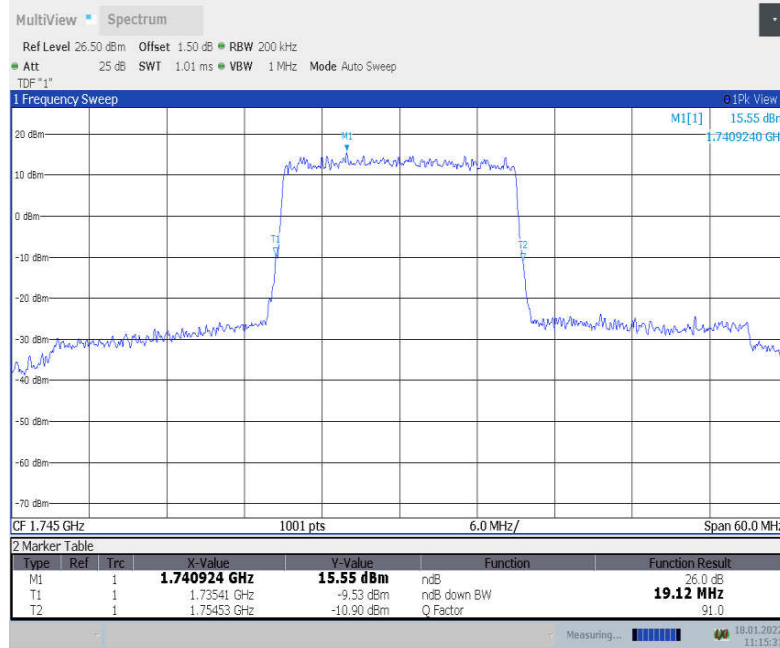


**LTE band 66, 20MHz Bandwidth, 16QAM (-26dBc BW)**





**LTE band 66, 20MHz Bandwidth, 64QAM (-26dBc BW)**



Note: Expanded measurement uncertainty is  $U = 3428 \text{ Hz}$ ,  $k = 2$



## **A.6 BAND EDGE COMPLIANCE**

### **Reference**

FCC: CFR Part 2.1051, 22.917, 24.238, 27.53, 90.691.

### **A.6.1 Measurement limit**

Part 22.917 For operations in the 824–849MHz band, the FCC limit is  $43 + 10 \log (P)$  dB below the transmitter power(P) in a 100kHz bandwidth. However, in the 1MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

Part 24.238 and Part 27.53(h) specify that 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.

Part 27.53(m) specifies for mobile digital stations, the attenuation factor shall be not less than  $40 + 10 \log (P)$  dB on all frequencies between the channel edge and 5 megahertz from the channel edge,  $43 + 10 \log (P)$  dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and  $55 + 10 \log (P)$  dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than  $43 + 10 \log (P)$  dB on all frequencies between 2490.5 MHz and 2496 MHz and  $55 + 10 \log (P)$  dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

Part 27.53(g) states 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.

### **A.6.2 Measurement Procedure**

The testing follows ANSI C63.26

- a) The EUT was connected to spectrum analyzer and system simulator via a power divider.
- b) The band edges of low and high channels for the highest RF powers were measured.
- c) Set RBW  $\geq 1\%$  EBW in the 1MHz band immediately outside and adjacent to the band edge.
- d) Set spectrum analyzer with RMS detector.
- e) The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- f) Checked that all the results comply with the emission limit line.

### **A.6.3 Measurement result**

**Only worst case result is given below**