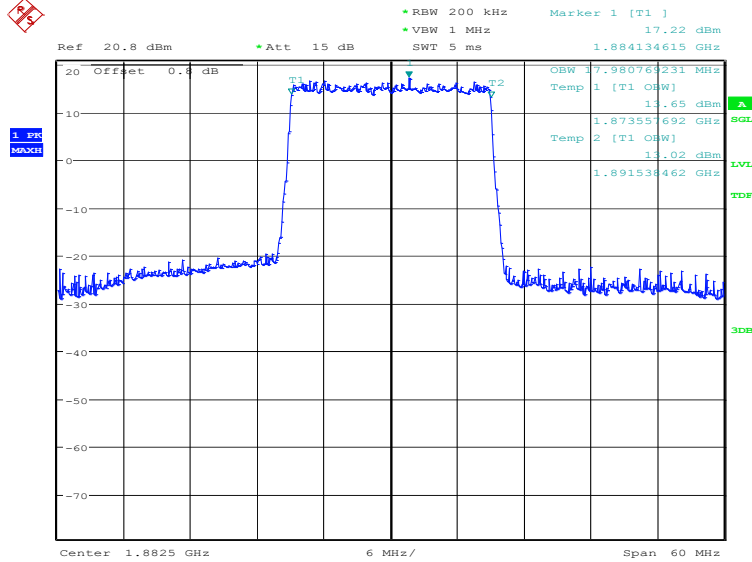


**LTE band 25, 20MHz (99%)**

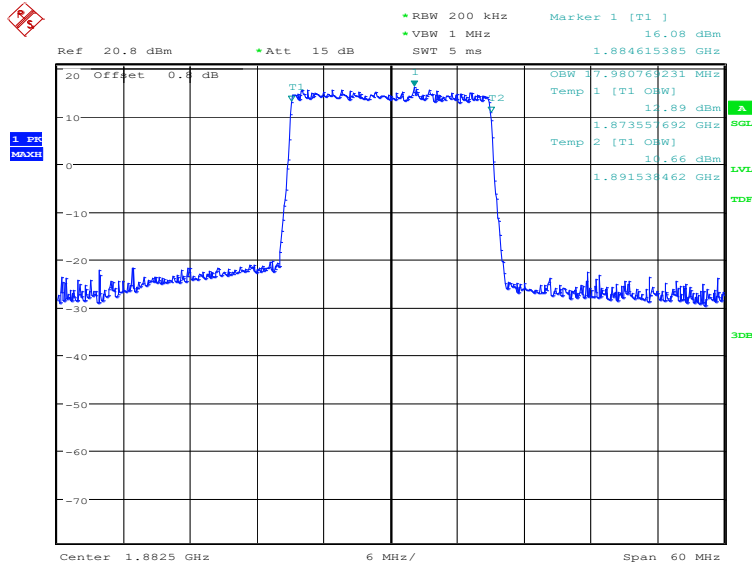
Frequency(MHz)	Occupied Bandwidth (99%) (kHz)	
1882.5	QPSK	16QAM
	17980.77	17980.77

**LTE band 25, 20MHz Bandwidth, QPSK (99% BW)**



Date: 19.NOV.2020 16:09:27

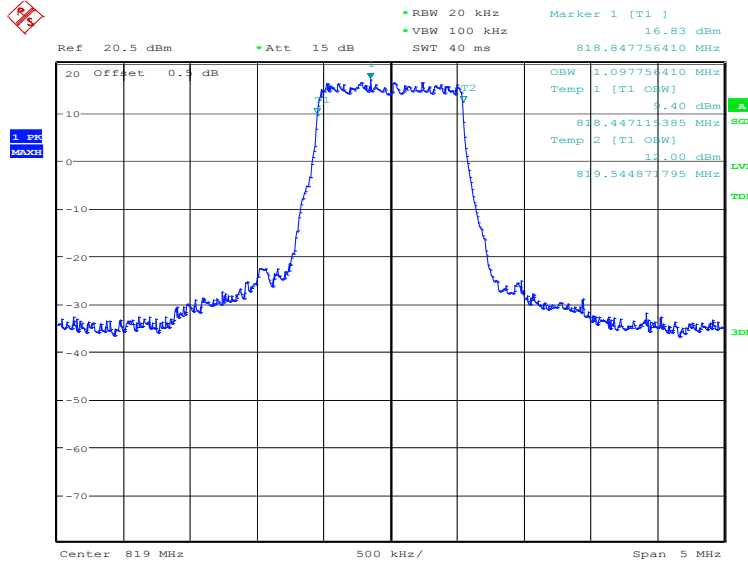
**LTE band 25, 20MHz Bandwidth, 16QAM (99% BW)**



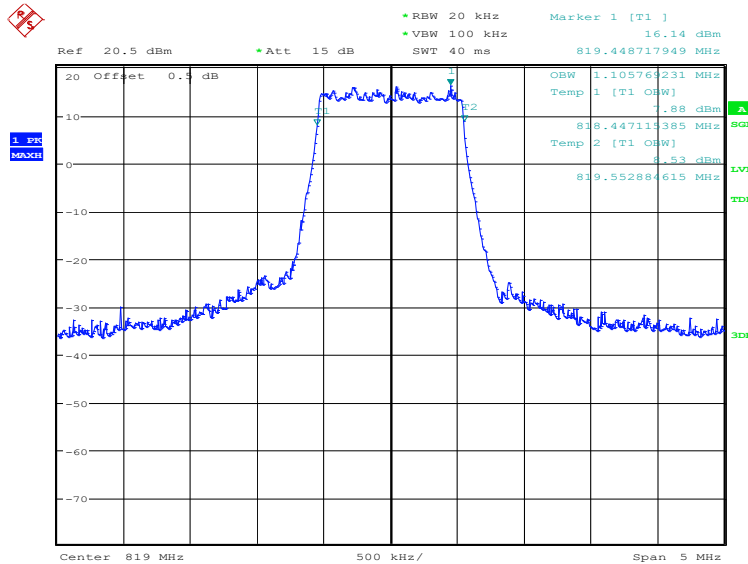
Date: 19.NOV.2020 16:10:06

**LTE band 26(814MHz~824MHz), 1.4MHz (99%)**

Frequency(MHz)	Occupied Bandwidth (99%) (kHz)	
819.0	QPSK	16QAM
	1097.76	1105.77

**LTE band 26(814MHz~824MHz), 1.4MHz Bandwidth, QPSK (99% BW)**


Date: 19.NOV.2020 16:18:49

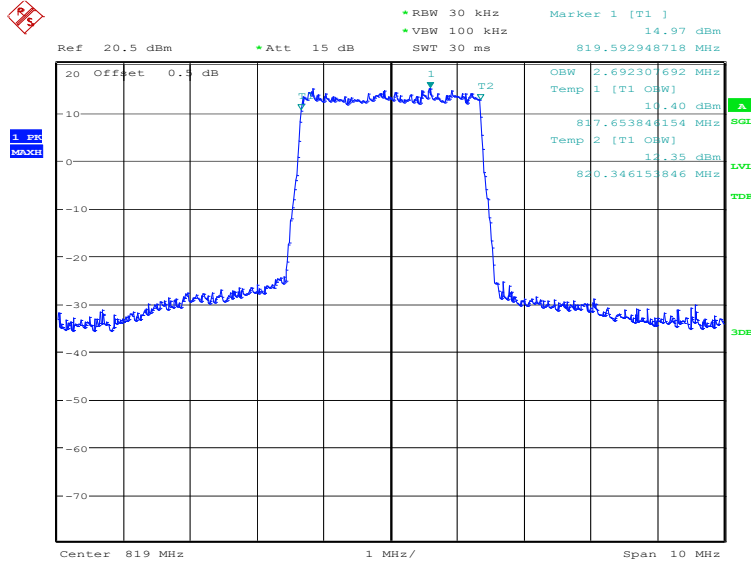
**LTE band 26(814MHz~824MHz), 1.4MHz Bandwidth, 16QAM (99% BW)**


Date: 19.NOV.2020 16:19:27

**LTE band 26(814MHz~824MHz), 3MHz (99%)**

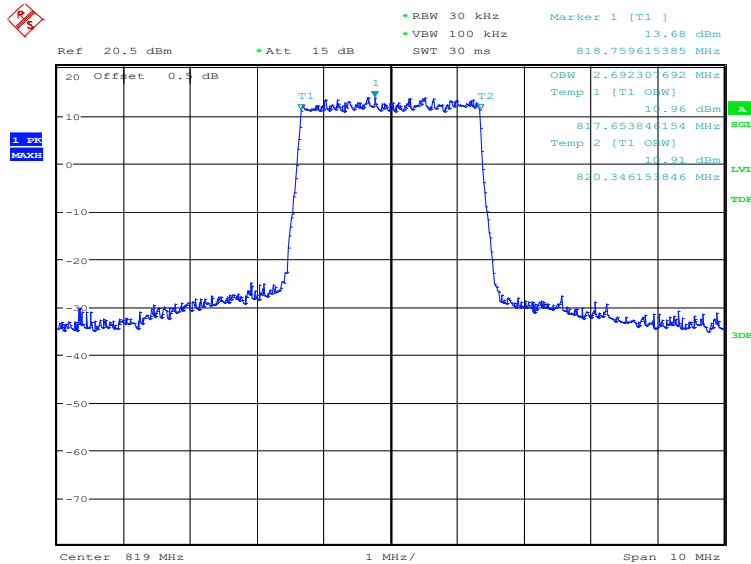
Frequency(MHz)	Occupied Bandwidth (99%) (kHz)	
819.0	QPSK	16QAM
	2692.31	2692.31

**LTE band 26(814MHz~824MHz), 3MHz Bandwidth, QPSK (99% BW)**



Date: 19.NOV.2020 16:20:08

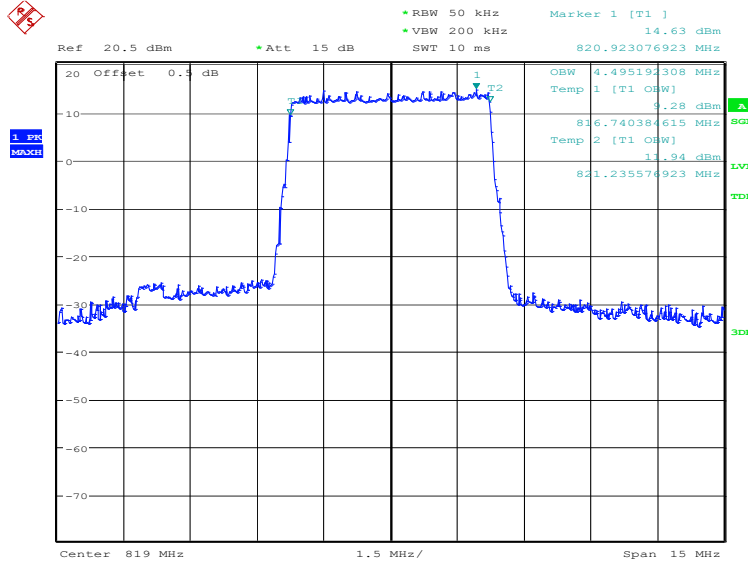
**LTE band 26(814MHz~824MHz), 3MHz Bandwidth, 16QAM (99% BW)**



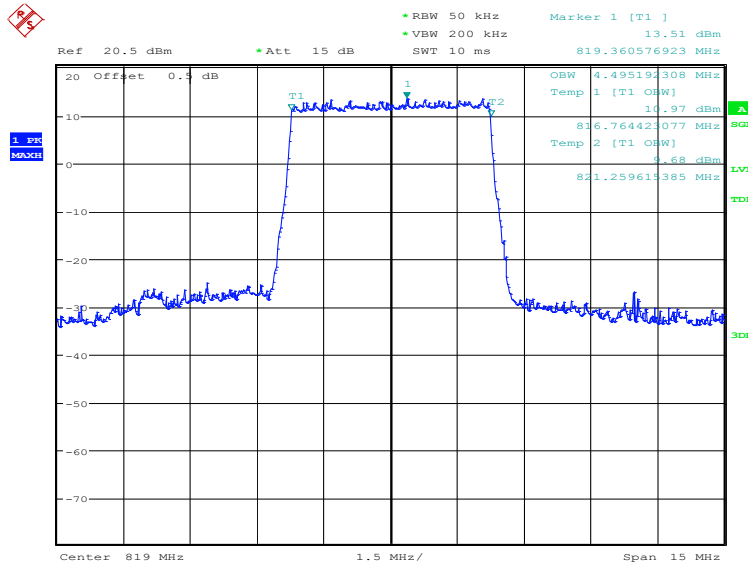
Date: 19.NOV.2020 16:20:47

**LTE band 26(814MHz~824MHz), 5MHz (99%)**

Frequency(MHz)	Occupied Bandwidth (99%) (kHz)	
819.0	QPSK	16QAM
	4495.19	4495.19

**LTE band 26(814MHz~824MHz), 5MHz Bandwidth, QPSK (99% BW)**


Date: 19.NOV.2020 16:21:27

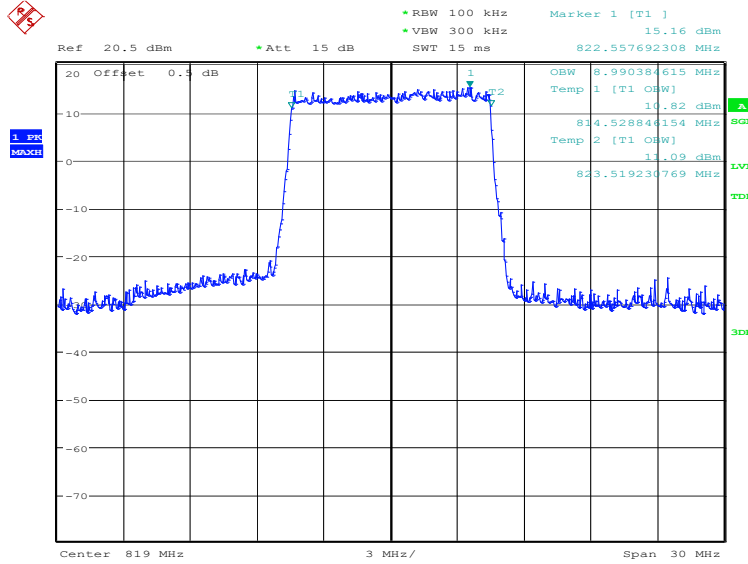
**LTE band 26(814MHz~824MHz), 5MHz Bandwidth, 16QAM (99% BW)**


Date: 19.NOV.2020 16:22:06

**LTE band 26(814MHz~824MHz), 10MHz (99%)**

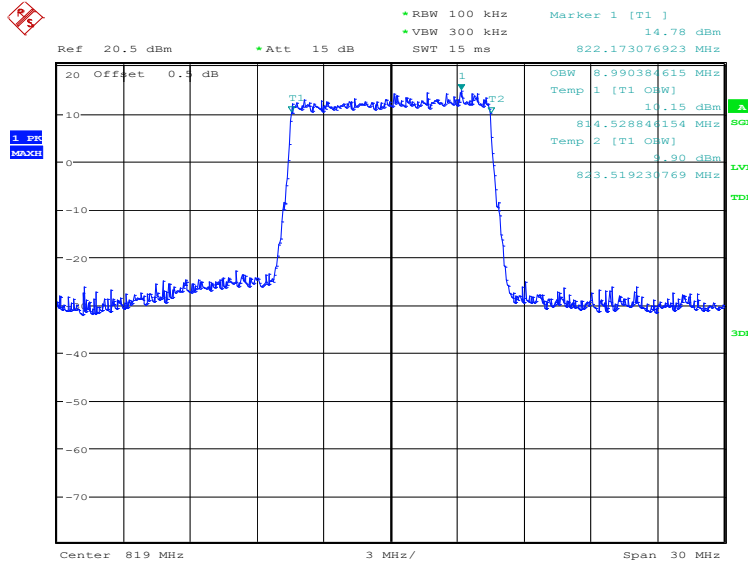
Frequency(MHz)	Occupied Bandwidth (99%) (kHz)	
819.0	QPSK	16QAM
	8990.38	8990.38

**LTE band 26(814MHz~824MHz), 10MHz Bandwidth, QPSK (99% BW)**



Date: 19.NOV.2020 16:22:47

**LTE band 26(814MHz~824MHz), 10MHz Bandwidth, 16QAM (99% BW)**

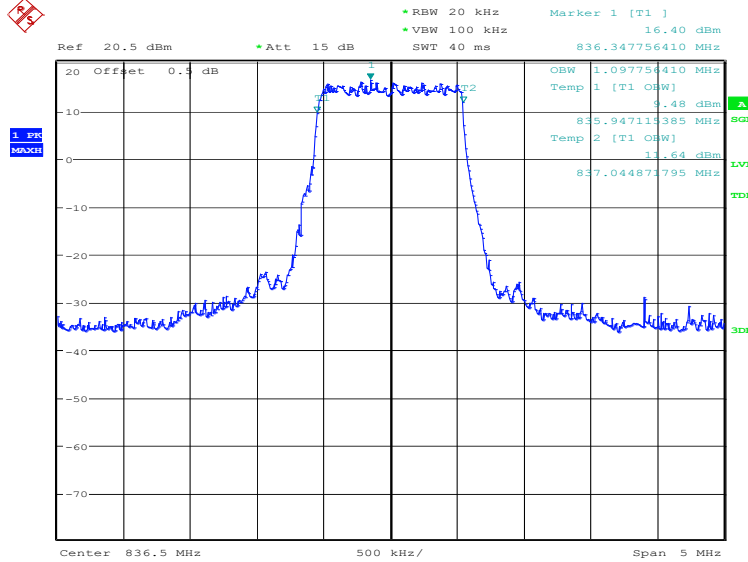


Date: 19.NOV.2020 16:23:26

**LTE band 26(824MHz~849MHz), 1.4MHz (99%)**

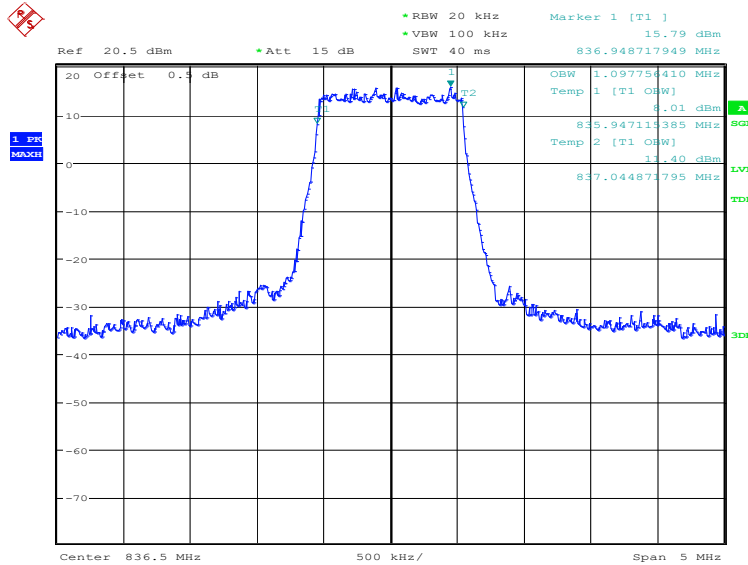
Frequency(MHz)	Occupied Bandwidth (99%) (kHz)	
836.5	QPSK	16QAM
	1097.76	1097.76

**LTE band 26(824MHz~849MHz), 1.4MHz Bandwidth, QPSK (99% BW)**



Date: 19.NOV.2020 16:11:34

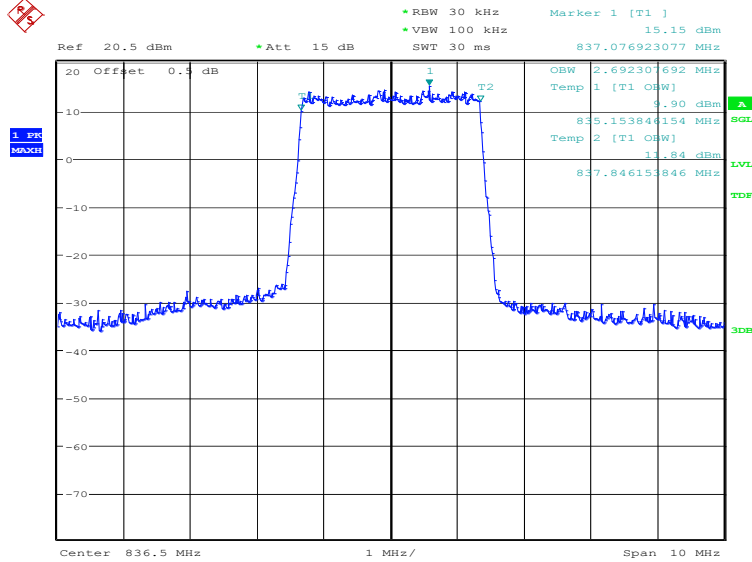
**LTE band 26(824MHz~849MHz), 1.4MHz Bandwidth, 16QAM (99% BW)**



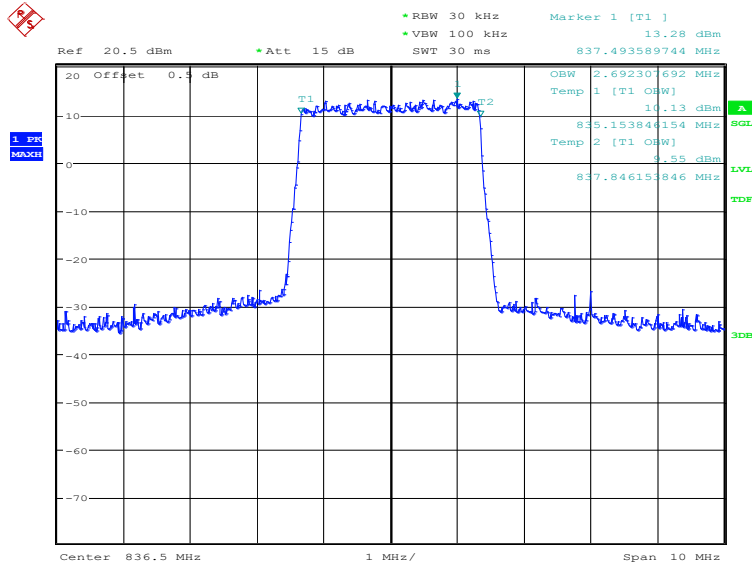
Date: 19.NOV.2020 16:12:13

**LTE band 26(824MHz~849MHz), 3MHz (99%)**

Frequency(MHz)	Occupied Bandwidth (99%) (kHz)	
836.5	QPSK	16QAM
	2692.31	2692.31

**LTE band 26(824MHz~849MHz), 3MHz Bandwidth, QPSK (99% BW)**


Date: 19.NOV.2020 16:12:54

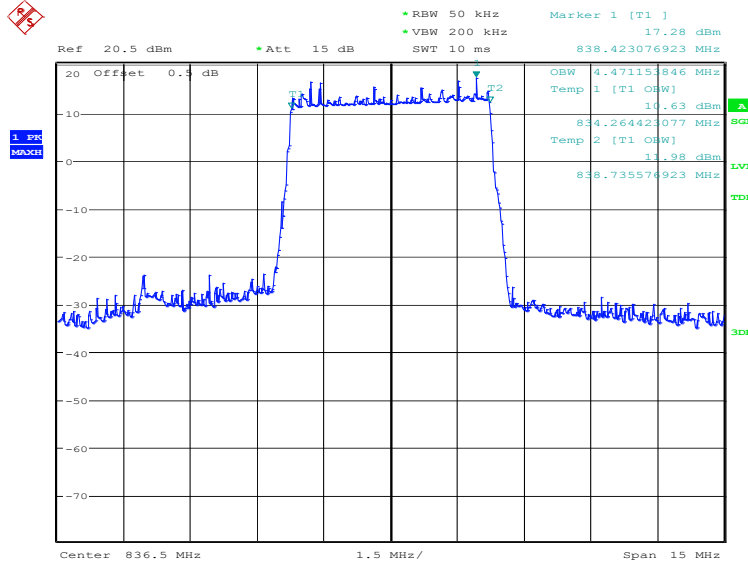
**LTE band 26(824MHz~849MHz), 3MHz Bandwidth, 16QAM (99% BW)**


Date: 19.NOV.2020 16:13:32

**LTE band 26(824MHz~849MHz), 5MHz (99%)**

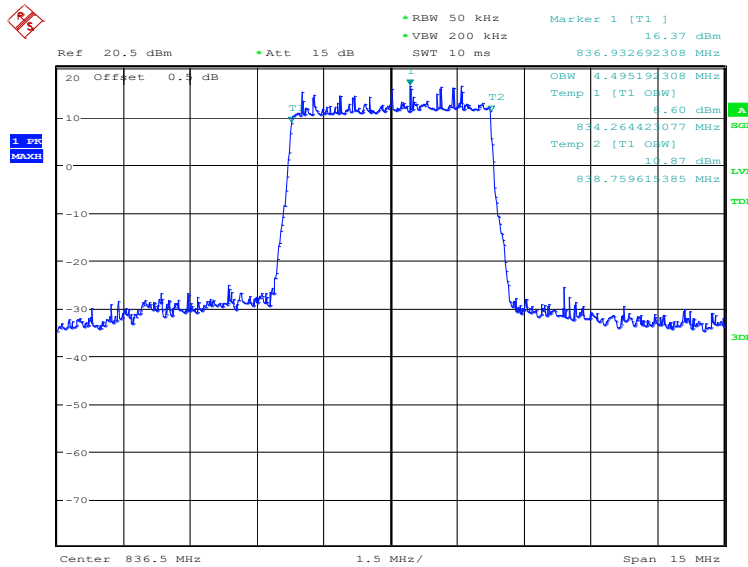
Frequency(MHz)	Occupied Bandwidth (99%) (kHz)	
836.5	QPSK	16QAM
	4471.15	4495.19

**LTE band 26(824MHz~849MHz), 5MHz Bandwidth, QPSK (99% BW)**



Date: 19.NOV.2020 16:14:13

**LTE band 26(824MHz~849MHz), 5MHz Bandwidth, 16QAM (99% BW)**



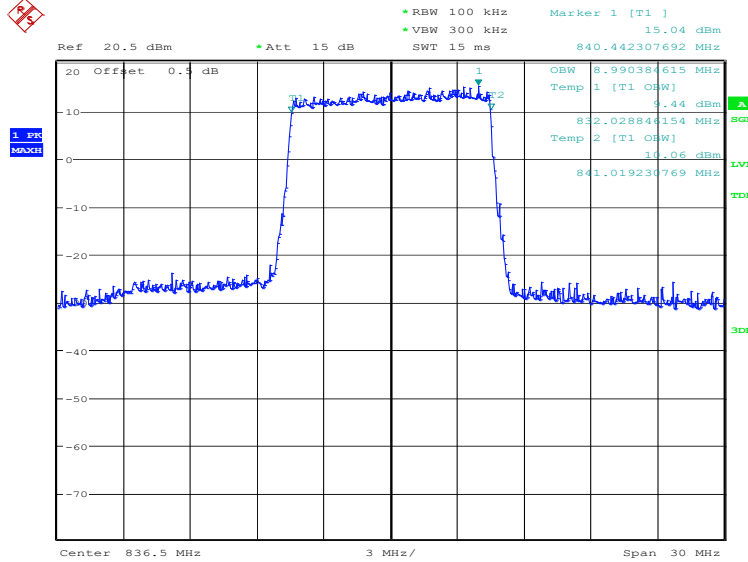
Date: 19.NOV.2020 16:14:51



**LTE band 26(824MHz~849MHz), 10MHz (99%)**

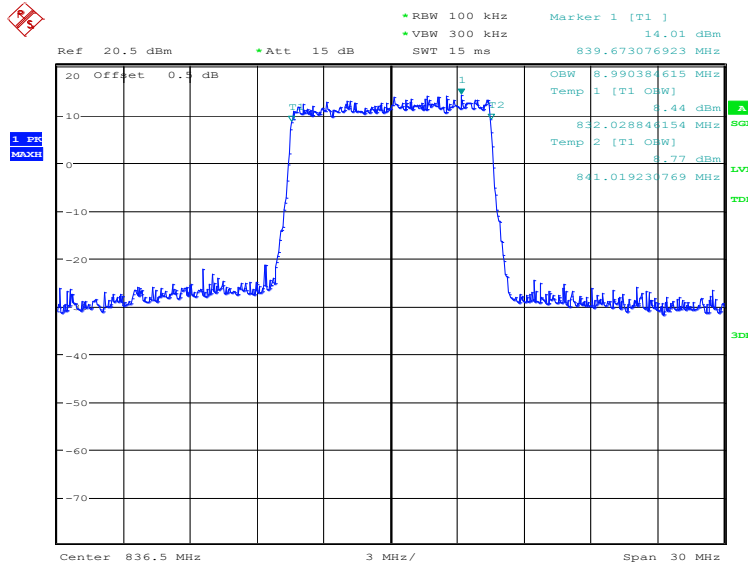
Frequency(MHz)	Occupied Bandwidth (99%) (kHz)	
836.5	QPSK	16QAM
	8990.38	8990.38

**LTE band 26(824MHz~849MHz), 10MHz Bandwidth, QPSK (99% BW)**



Date: 19.NOV.2020 16:15:32

**LTE band 26(824MHz~849MHz), 10MHz Bandwidth, 16QAM (99% BW)**

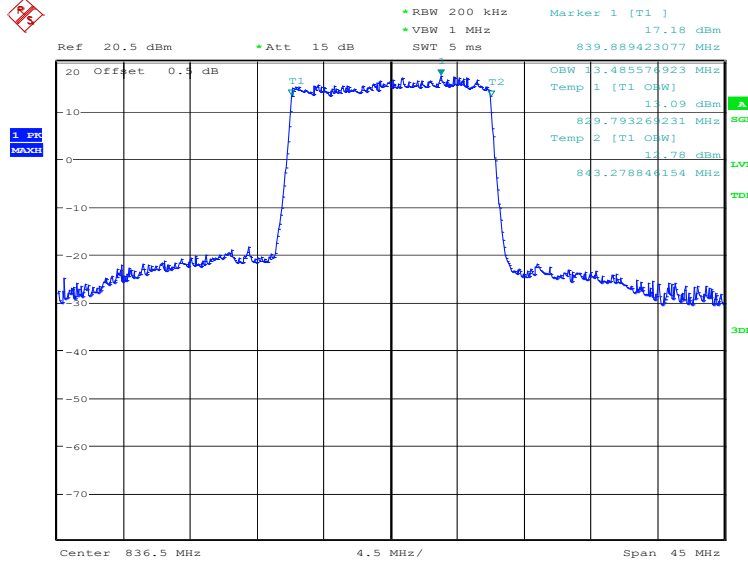


Date: 19.NOV.2020 16:16:11

**LTE band 26(824MHz~849MHz), 15MHz (99%)**

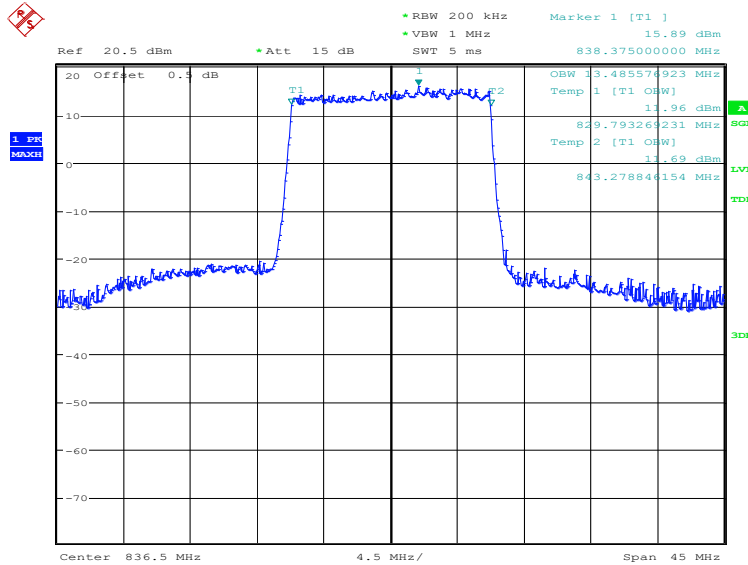
Frequency(MHz)	Occupied Bandwidth (99%) (kHz)	
836.5	QPSK	16QAM
	13485.58	13485.58

**LTE band 26(824MHz~849MHz), 15MHz Bandwidth, QPSK (99% BW)**



Date: 19.NOV.2020 16:16:51

**LTE band 26(824MHz~849MHz), 15MHz Bandwidth, 16QAM (99% BW)**

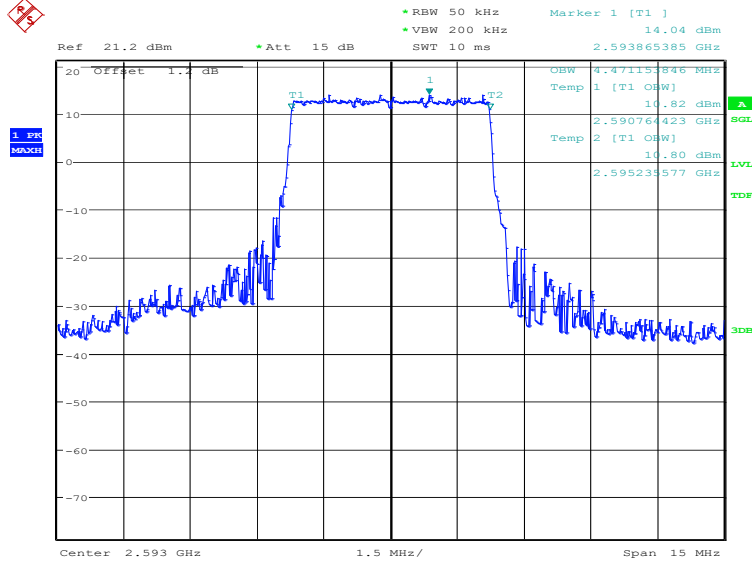


Date: 19.NOV.2020 16:17:30

**LTE band 41, 5MHz (99%)**

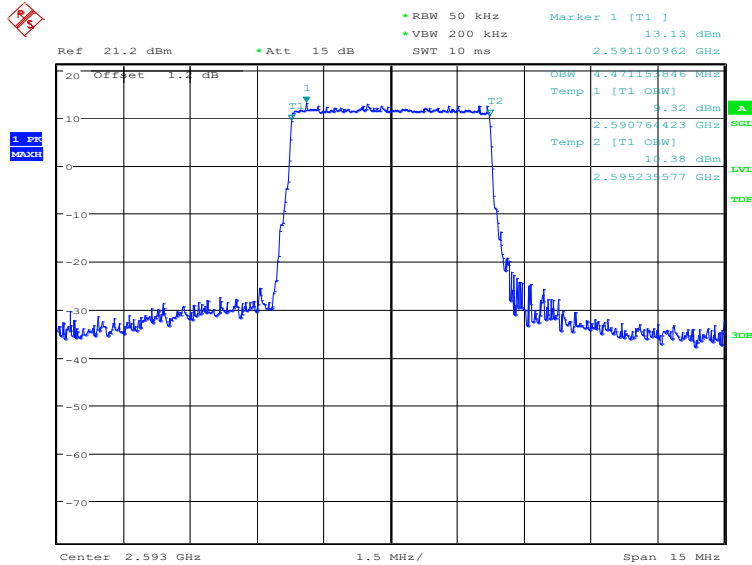
Frequency(MHz)	Occupied Bandwidth (99%) (kHz)	
2593.0	QPSK	16QAM
	4471.15	4471.15

**LTE band 41, 5MHz Bandwidth, QPSK (99% BW)**



Date: 19.NOV.2020 16:32:46

**LTE band 41, 5MHz Bandwidth,16QAM (99% BW)**

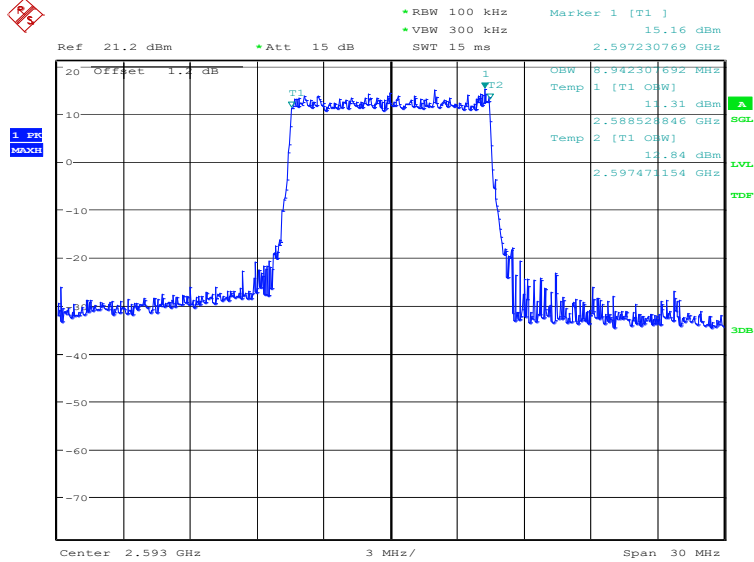


Date: 19.NOV.2020 16:33:25

**LTE band 41, 10MHz (99%)**

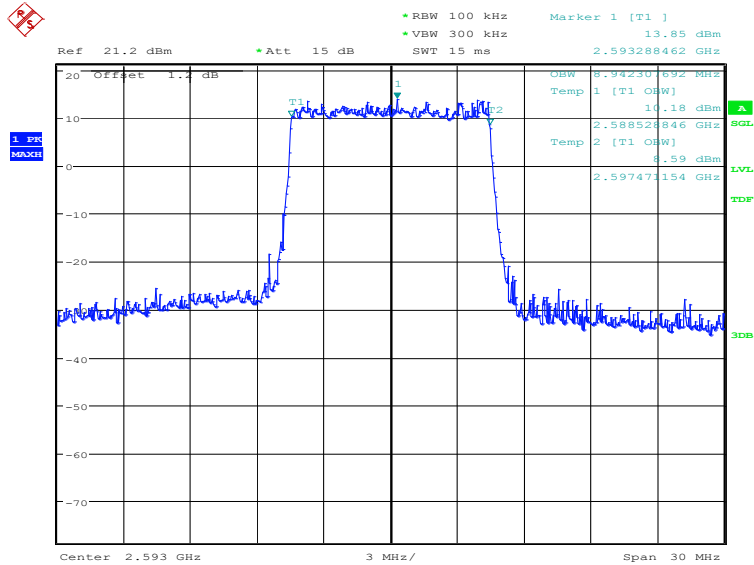
Frequency(MHz)	Occupied Bandwidth (99%) (kHz)	
2593.0	QPSK	16QAM
	8942.31	8942.31

**LTE band 41, 10MHz Bandwidth, QPSK (99% BW)**



Date: 19.NOV.2020 16:34:06

**LTE band 41, 10MHz Bandwidth, 16QAM (99% BW)**

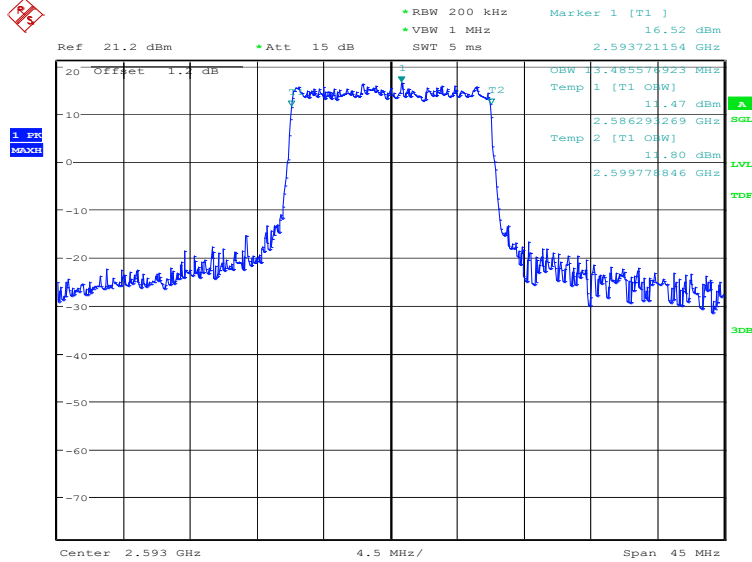


Date: 19.NOV.2020 16:34:45

### LTE band 41, 15MHz (99%)

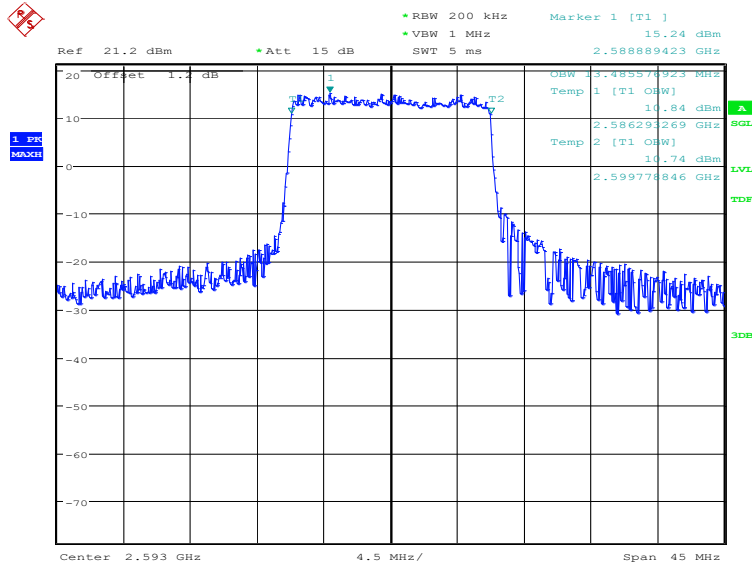
Frequency(MHz)	Occupied Bandwidth (99%) (kHz)	
2593.0	QPSK	16QAM
	13485.58	13485.58

### LTE band 41, 15MHz Bandwidth, QPSK (99% BW)



Date: 19.NOV.2020 16:35:26

### LTE band 41, 15MHz Bandwidth, 16QAM (99% BW)

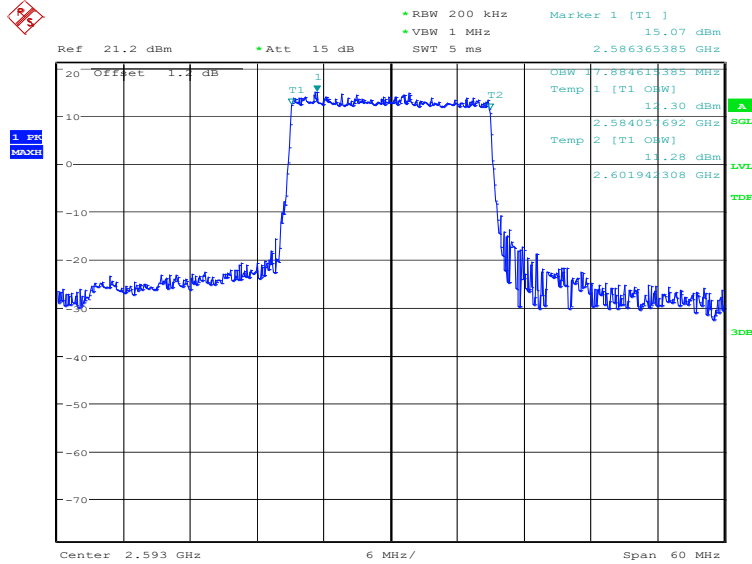


Date: 19.NOV.2020 16:36:05

### LTE band 41, 20MHz (99%)

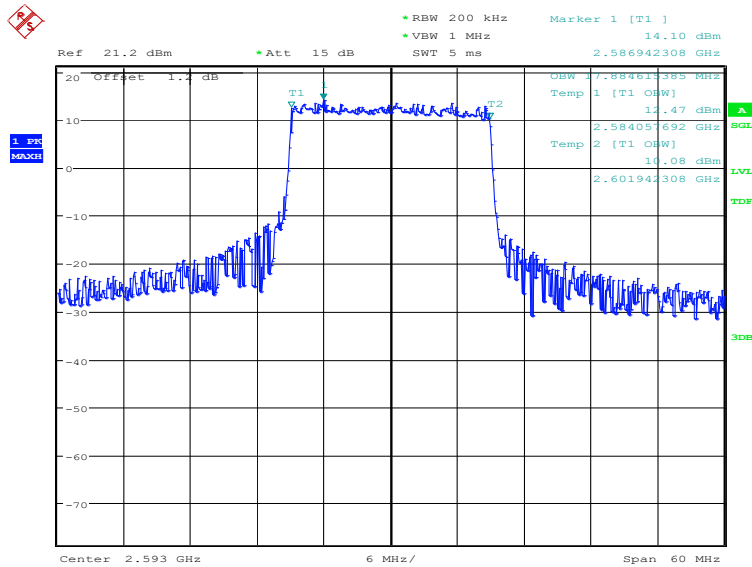
Frequency(MHz)	Occupied Bandwidth (99%) (kHz)	
2593.0	QPSK	16QAM
	17884.62	17884.62

### LTE band 41, 20MHz Bandwidth, QPSK (99% BW)



Date: 19.NOV.2020 16:36:46

### LTE band 41, 20MHz Bandwidth, 16QAM (99% BW)

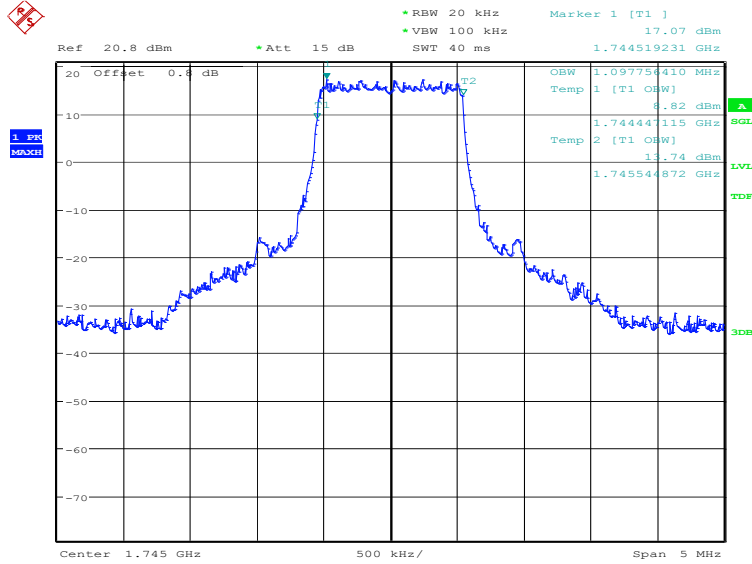


Date: 19.NOV.2020 16:37:25

### LTE band 66, 1.4MHz (99%)

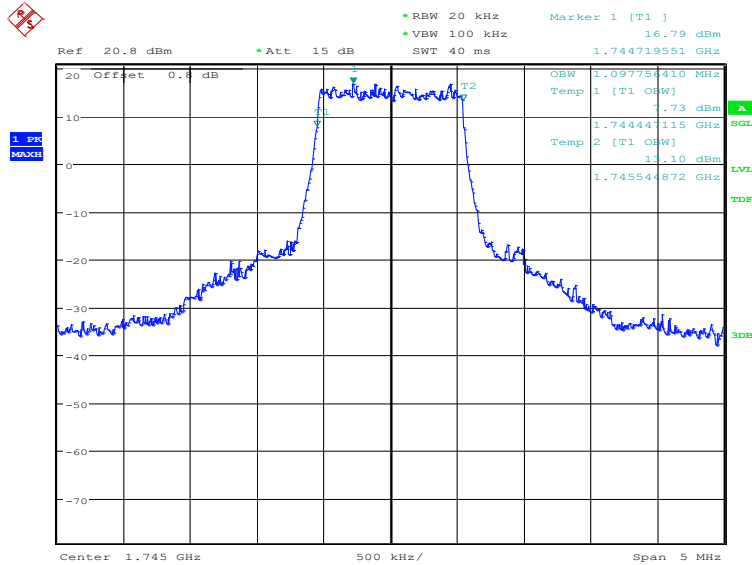
Frequency(MHz)	Occupied Bandwidth (99%) (kHz)	
	1745.0	QPSK
1097.76		1097.76

### LTE band 66, 1.4MHz Bandwidth, QPSK (99% BW)



Date: 19.NOV.2020 16:24:12

### LTE band 66, 1.4MHz Bandwidth, 16QAM (99% BW)

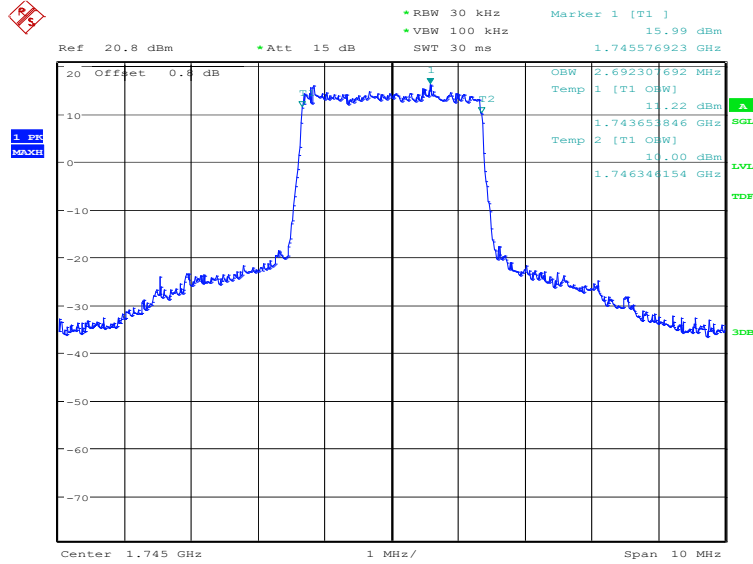


Date: 19.NOV.2020 16:24:50

**LTE band 66, 3MHz (99%)**

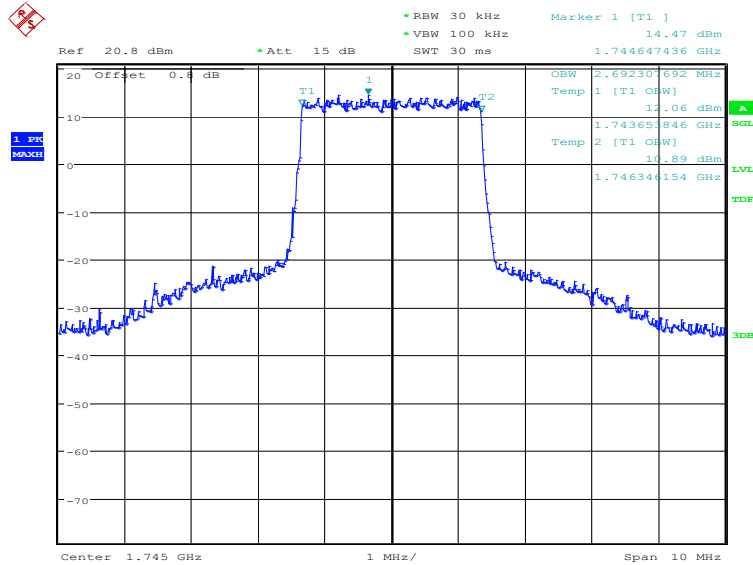
Frequency(MHz)	Occupied Bandwidth (99%) (kHz)	
1745.0	QPSK	16QAM
	2692.31	2692.31

**LTE band 66, 3MHz Bandwidth, QPSK (99% BW)**



Date: 19.NOV.2020 16:25:31

**LTE band 66, 3MHz Bandwidth, 16QAM (99% BW)**



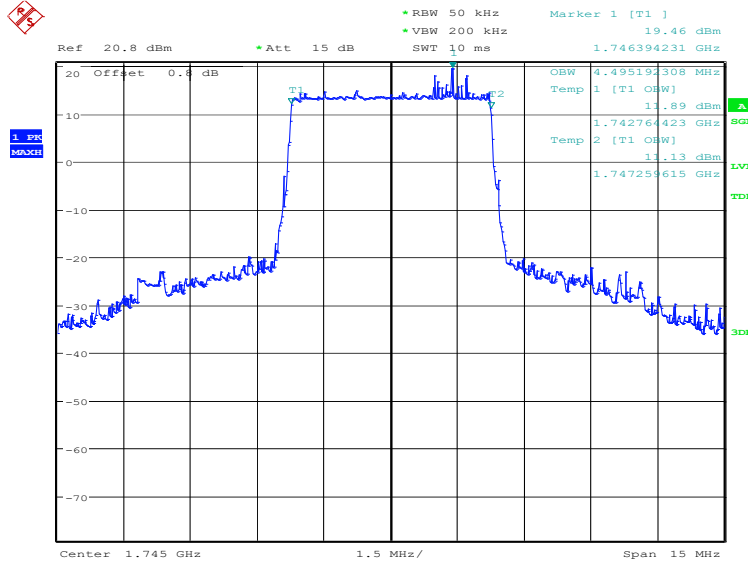
Date: 19.NOV.2020 16:26:10



**LTE band 66, 5MHz (99%)**

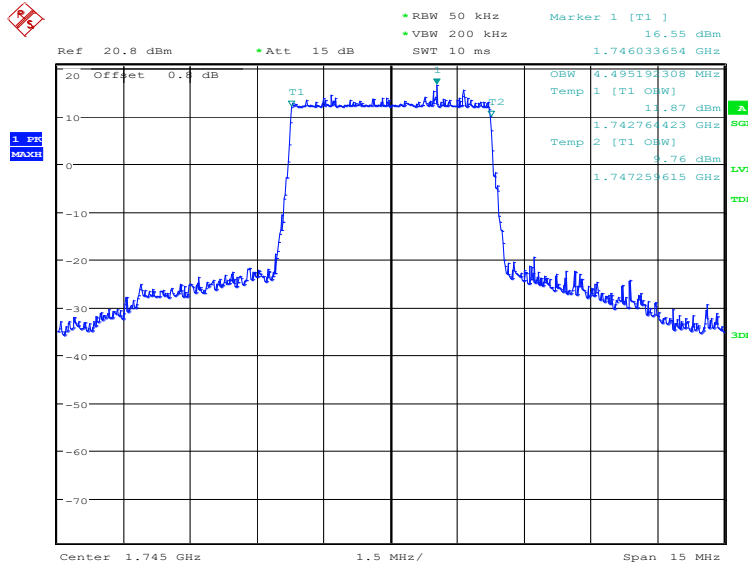
Frequency(MHz)	Occupied Bandwidth (99%) (kHz)	
1745.0	QPSK	16QAM
	4495.19	4495.19

**LTE band 66, 5MHz Bandwidth, QPSK (99% BW)**



Date: 19.NOV.2020 16:26:50

**LTE band 66, 5MHz Bandwidth, 16QAM (99% BW)**

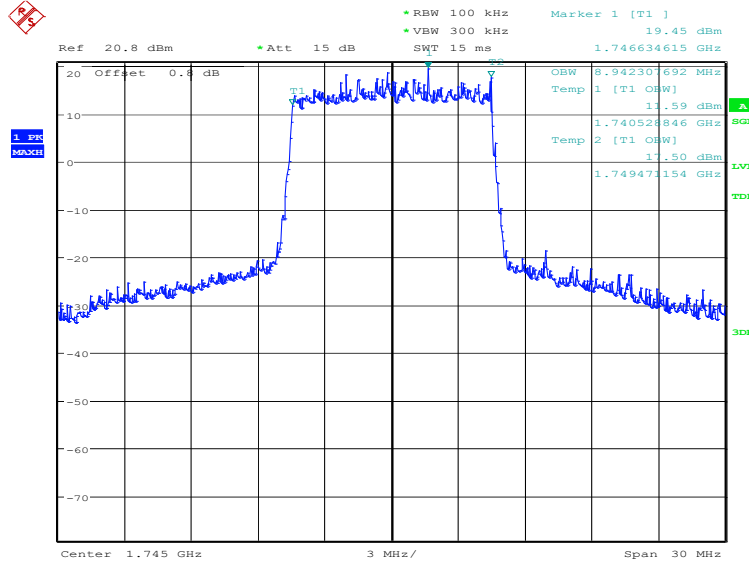


Date: 19.NOV.2020 16:27:29

### LTE band 66, 10MHz (99%)

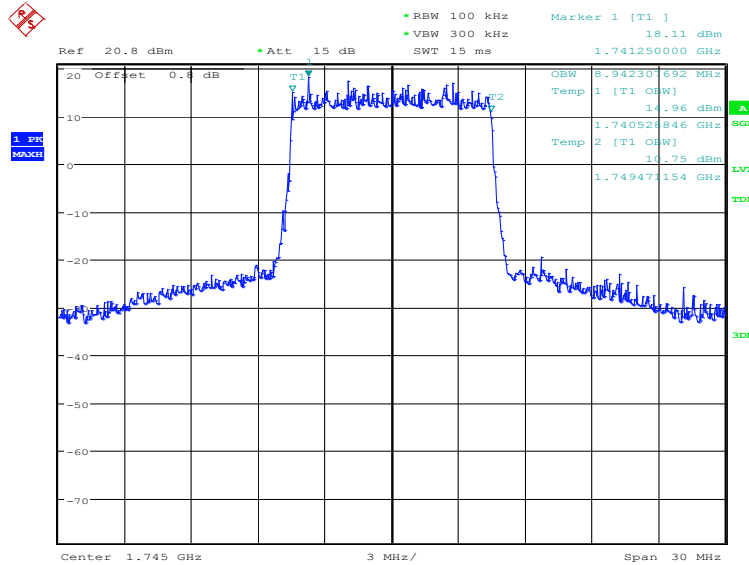
Frequency(MHz)	Occupied Bandwidth (99%) (kHz)	
1745.0	QPSK	16QAM
	8942.31	8942.31

### LTE band 66, 10MHz Bandwidth, QPSK (99% BW)



Date: 19.NOV.2020 16:28:10

### LTE band 66, 10MHz Bandwidth, 16QAM (99% BW)

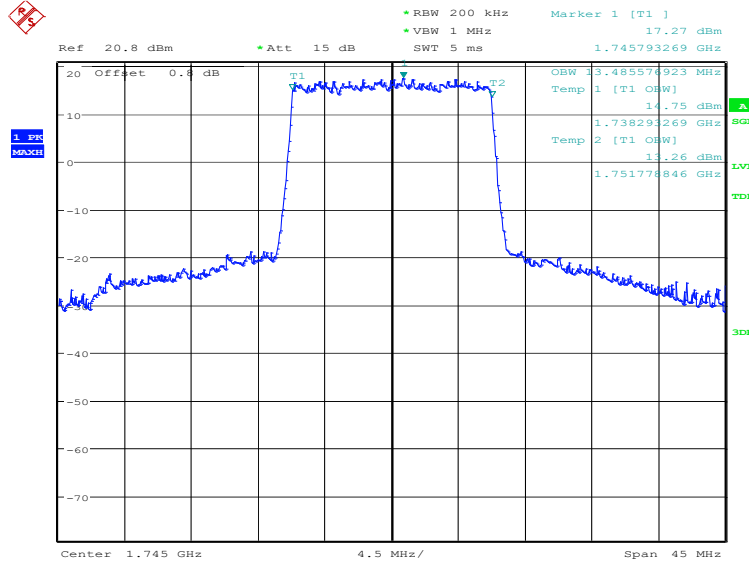


Date: 19.NOV.2020 16:28:49

### LTE band 66, 15MHz (99%)

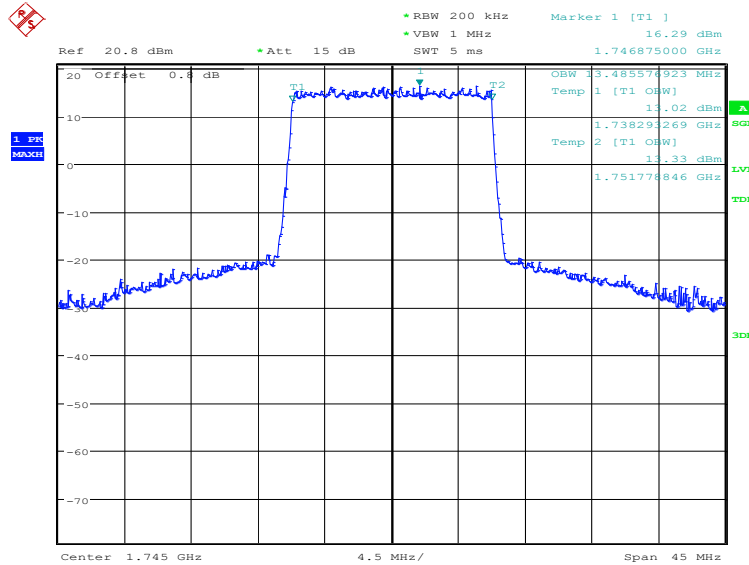
Frequency(MHz)	Occupied Bandwidth (99%) (kHz)	
1745.0	QPSK	16QAM
	13485.58	13485.58

### LTE band 66, 15MHz Bandwidth, QPSK (99% BW)



Date: 19.NOV.2020 16:29:29

### LTE band 66, 15MHz Bandwidth, 16QAM (99% BW)

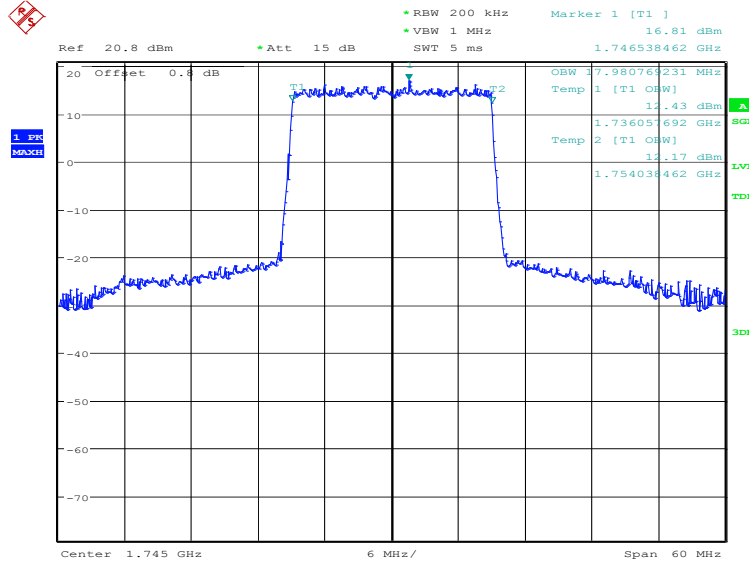


Date: 19.NOV.2020 16:30:08

**LTE band 66, 20MHz (99%)**

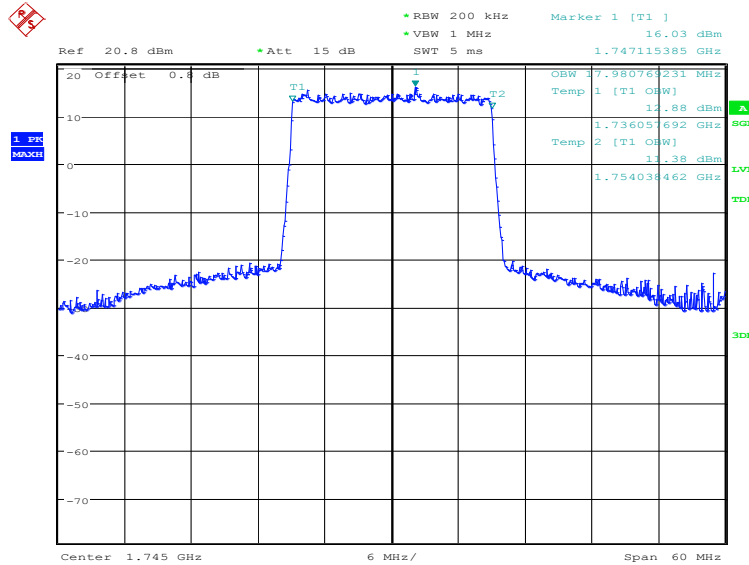
Frequency(MHz)	Occupied Bandwidth (99%) (kHz)	
1745.0	QPSK	16QAM
	17980.77	17980.77

**LTE band 66, 20MHz Bandwidth, QPSK (99% BW)**



Date: 19.NOV.2020 16:30:48

**LTE band 66, 20MHz Bandwidth, 16QAM (99% BW)**

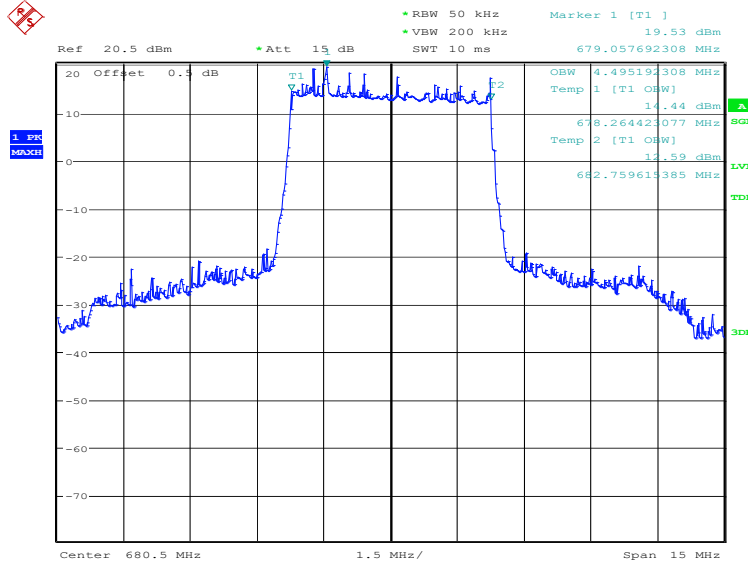


Date: 19.NOV.2020 16:31:27

**LTE band 71, 5MHz (99%)**

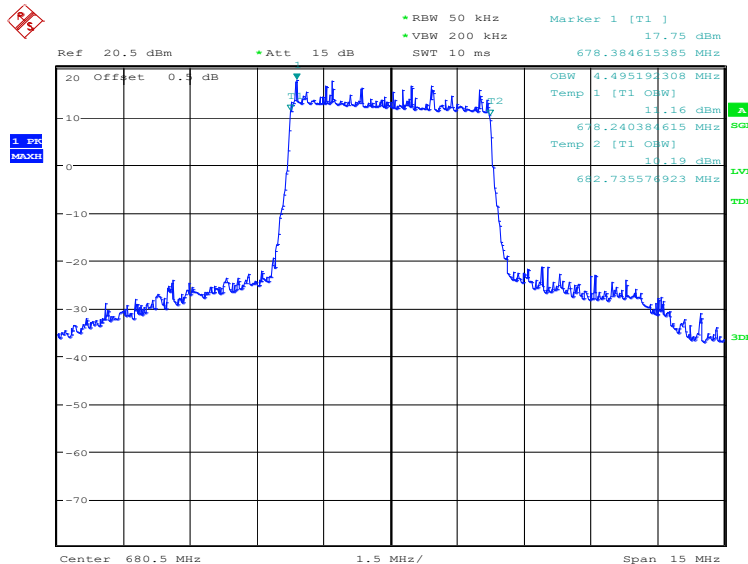
Frequency(MHz)	Occupied Bandwidth (99%) (kHz)	
680.5	QPSK	16QAM
	4495.19	4495.19

**LTE band 71, 5MHz Bandwidth, QPSK (99% BW)**



Date: 19.NOV.2020 15:42:49

**LTE band 71, 5MHz Bandwidth, 16QAM (99% BW)**

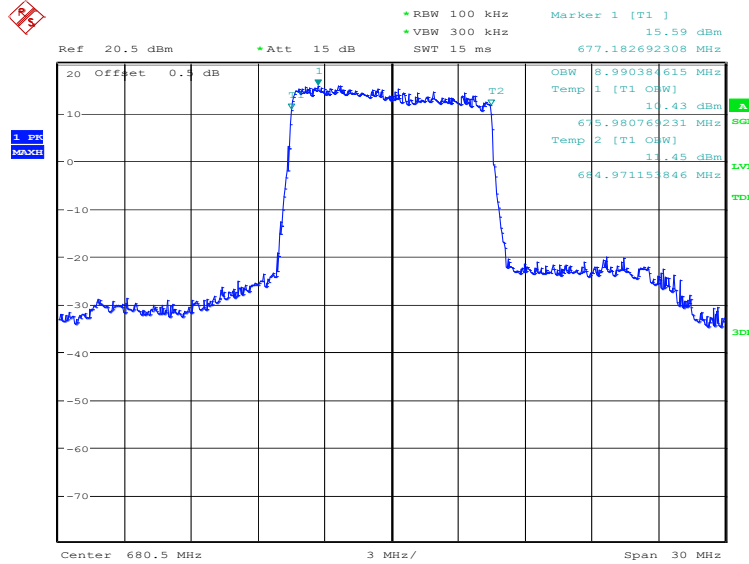


Date: 19.NOV.2020 15:43:28

### LTE band 71, 10MHz (99%)

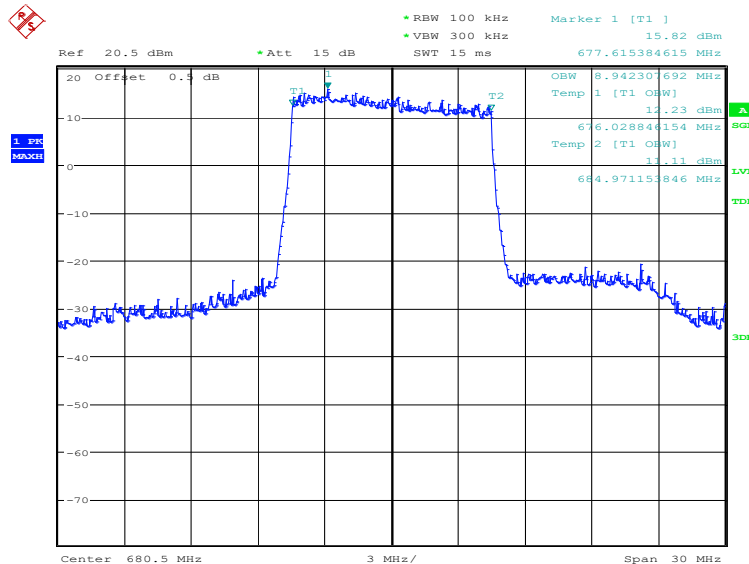
Frequency(MHz)	Occupied Bandwidth (99%) (kHz)	
	680.5	QPSK
8990.38		8942.31

### LTE band 71, 10MHz Bandwidth, QPSK (99% BW)



Date: 19.NOV.2020 15:44:08

### LTE band 71, 10MHz Bandwidth, 16QAM (99% BW)

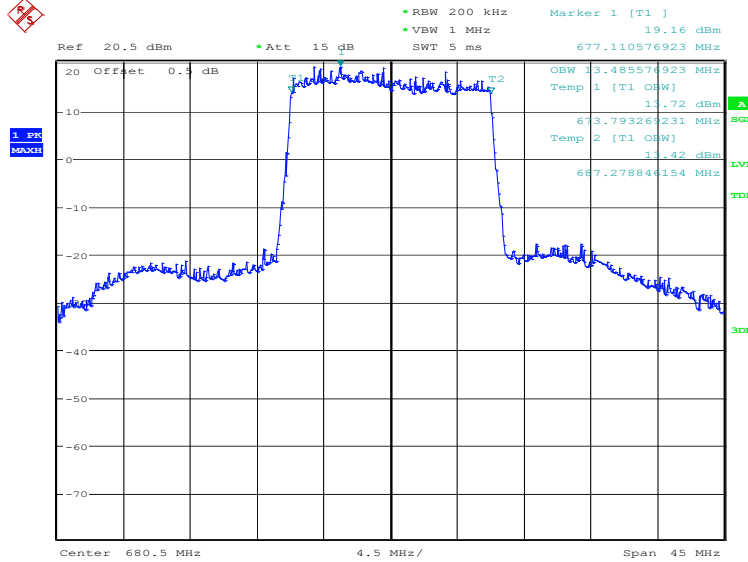


Date: 19.NOV.2020 15:44:47

**LTE band 71, 15MHz (99%)**

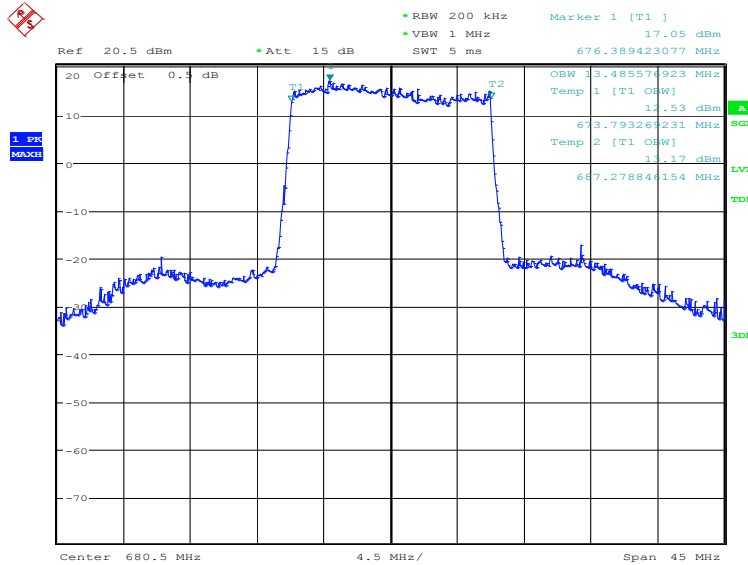
Frequency(MHz)	Occupied Bandwidth (99%) (kHz)	
680.5	QPSK	16QAM
	13485.58	13485.58

**LTE band 71, 15MHz Bandwidth, QPSK (99% BW)**



Date: 19.NOV.2020 15:45:27

**LTE band 71, 15MHz Bandwidth, 16QAM (99% BW)**

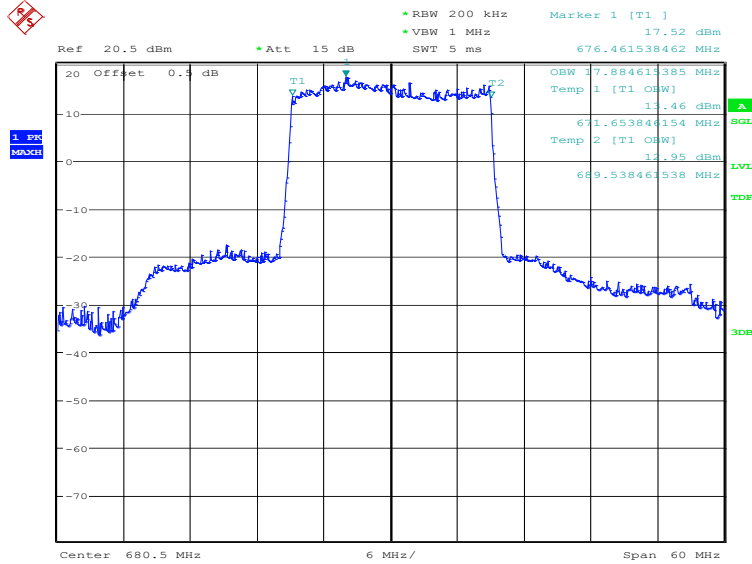


Date: 19.NOV.2020 15:46:06

**LTE band 71, 20MHz (99%)**

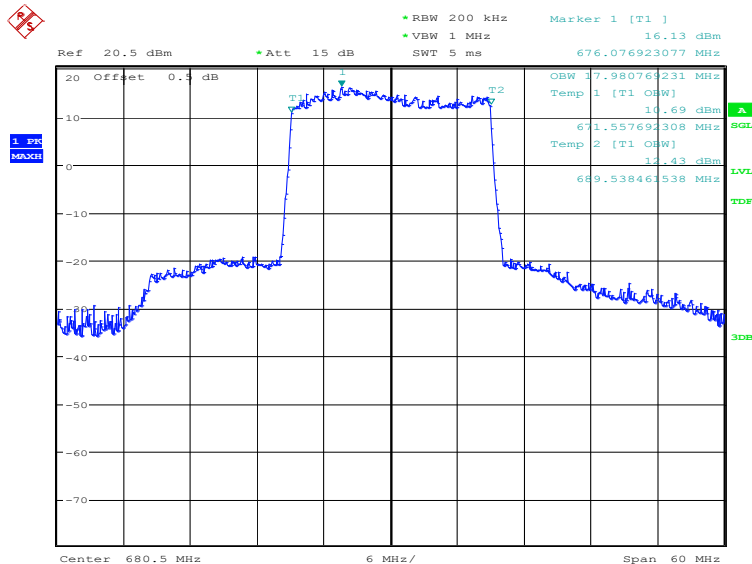
Frequency(MHz)	Occupied Bandwidth (99%) (kHz)	
680.5	QPSK	16QAM
	17884.62	17980.77

**LTE band 71, 20MHz Bandwidth, QPSK (99% BW)**



Date: 19.NOV.2020 15:46:46

**LTE band 71, 20MHz Bandwidth, 16QAM (99% BW)**



Date: 19.NOV.2020 15:47:25



## **A.5 Emission Bandwidth**

The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power. Table below lists the measured -26dBc BW. Spectrum analyzer plots are included on the following pages.

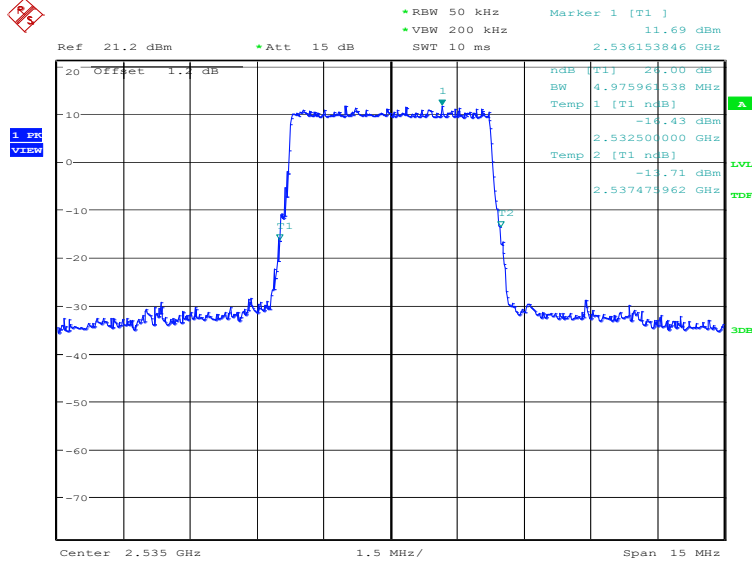
The measurement method is from ANSI C63.26:

- a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be wide enough to see sufficient roll off of the signal to make the measurement.
- b) The nominal RBW shall be in the range of 1% to 5% of the anticipated OBW, and the VBW shall be set  $\geq 3 \times$  RBW.
- c) Set the reference level of the instrument as required to prevent the signal amplitude from exceeding the maximum spectrum analyzer input mixer level for linear operation.
- d) The dynamic range of the spectrum analyzer at the selected RBW shall be more than 10 dB below the target “-X dB” requirement, i.e., if the requirement calls for measuring the -26 dB OBW, the spectrum analyzer noise floor at the selected RBW shall be at least 36 dB below the reference level.
- e) Set spectrum analyzer detection mode to peak, and the trace mode to max hold.

**LTE band 7, 5MHz (-26dBc)**

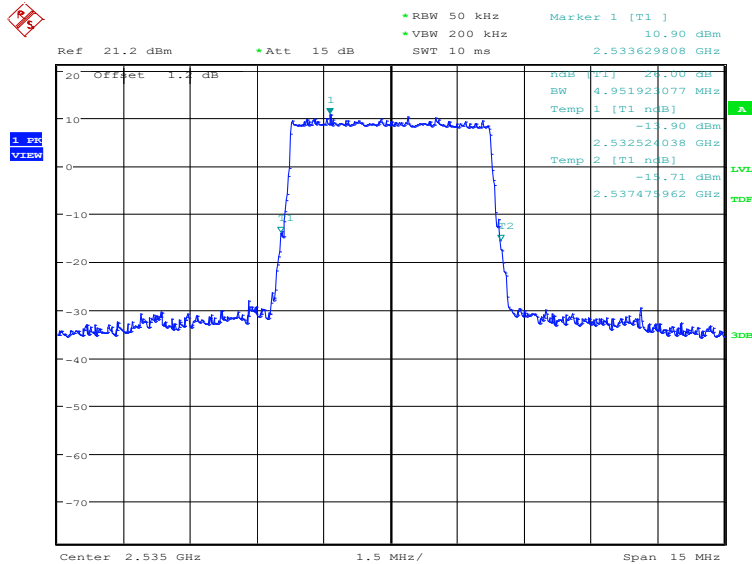
Frequency(MHz)	Occupied Bandwidth (-26dBc) (kHz)	
2535.0	QPSK	16QAM
	4975.96	4951.92

**LTE band 7, 5MHz Bandwidth, QPSK (-26dBc BW)**



Date: 19.NOV.2020 16:44:54

**LTE band 7, 5MHz Bandwidth, 16QAM (-26dBc BW)**

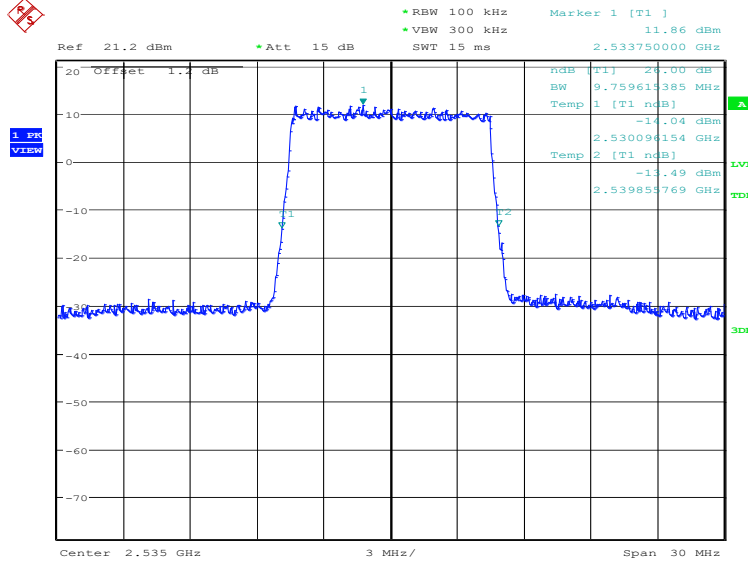


Date: 19.NOV.2020 16:45:33

**LTE band 7, 10MHz (-26dBc)**

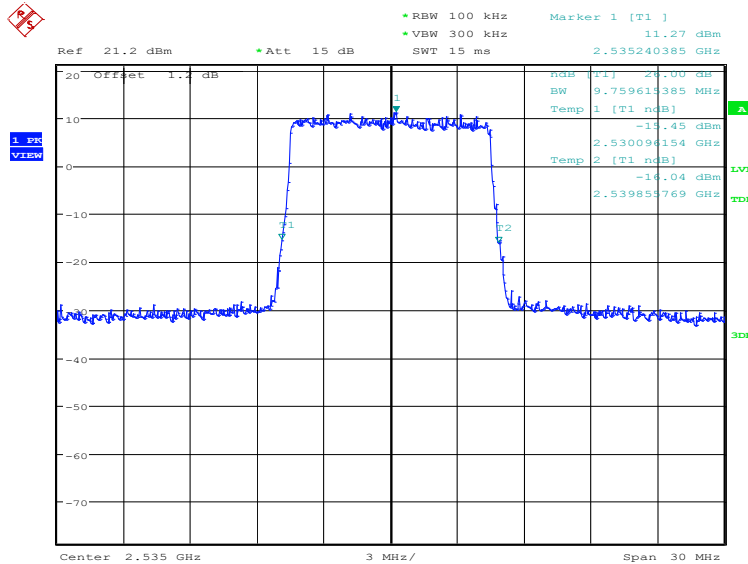
Frequency(MHz)	Occupied Bandwidth (-26dBc) (kHz)	
2535.0	QPSK	16QAM
	9759.62	9759.62

**LTE band 7, 10MHz Bandwidth, QPSK (-26dBc BW)**



Date: 19.NOV.2020 16:46:14

**LTE band 7, 10MHz Bandwidth, 16QAM (-26dBc BW)**

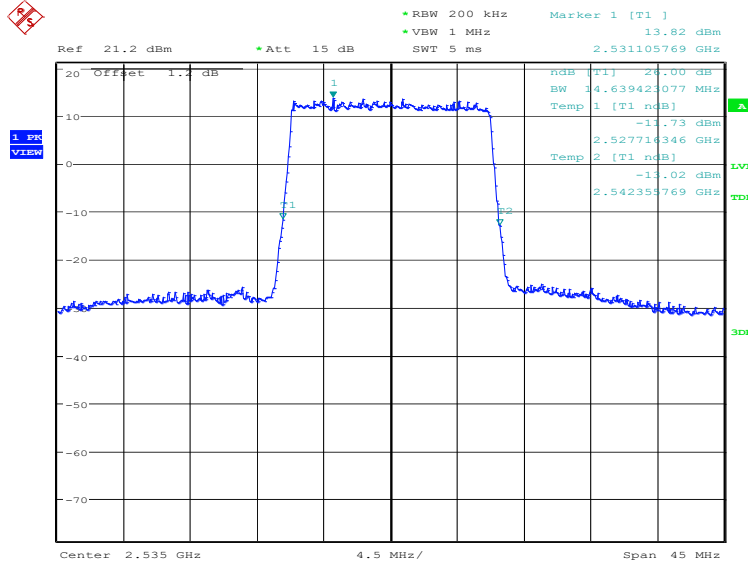


Date: 19.NOV.2020 16:46:54

**LTE band 7, 15MHz (-26dBc)**

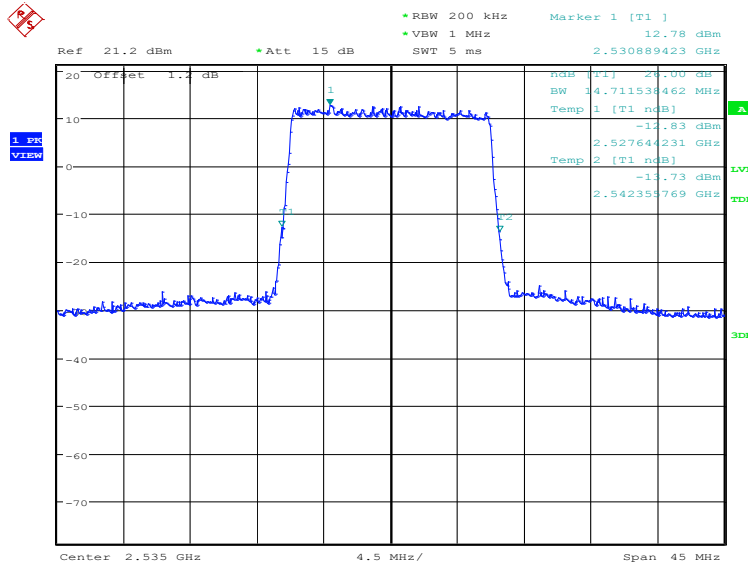
Frequency(MHz)	Occupied Bandwidth (-26dBc) (kHz)	
2535.0	QPSK	16QAM
	14639.42	14711.54

**LTE band 7, 15MHz Bandwidth, QPSK (-26dBc BW)**



Date: 19.NOV.2020 16:47:35

**LTE band 7, 15MHz Bandwidth, 16QAM (-26dBc BW)**

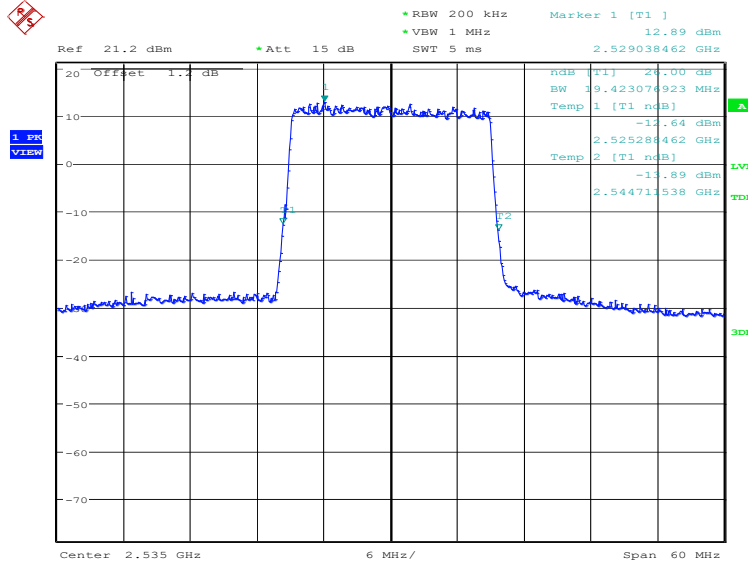


Date: 19.NOV.2020 16:48:14

### LTE band 7, 20MHz (-26dBc)

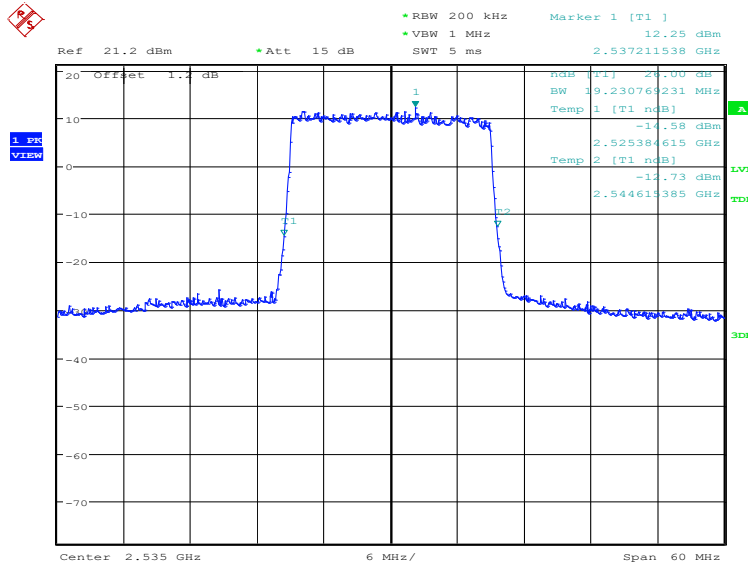
Frequency(MHz)	Occupied Bandwidth (-26dBc) (kHz)	
2535.0	QPSK	16QAM
	19423.08	19230.77

### LTE band 7, 20MHz Bandwidth, QPSK (-26dBc BW)



Date: 19.NOV.2020 16:48:55

### LTE band 7, 20MHz Bandwidth, 16QAM (-26dBc BW)

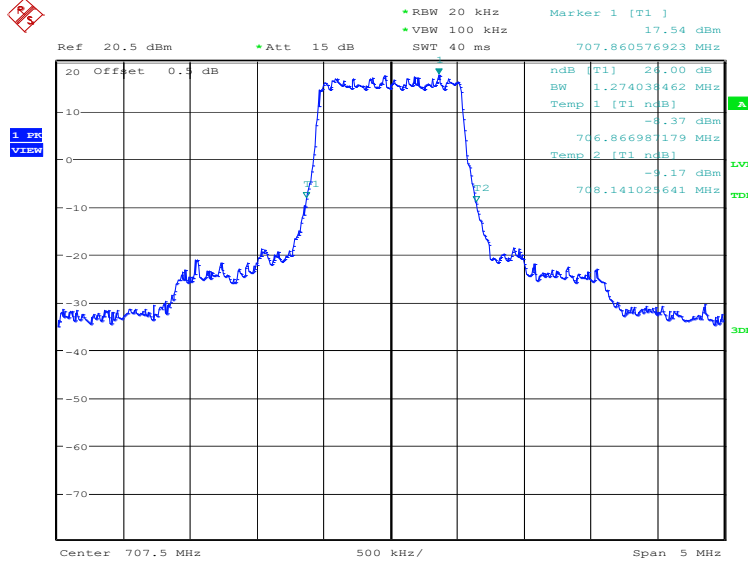


Date: 19.NOV.2020 16:49:35

**LTE band 12, 1.4MHz (-26dBc)**

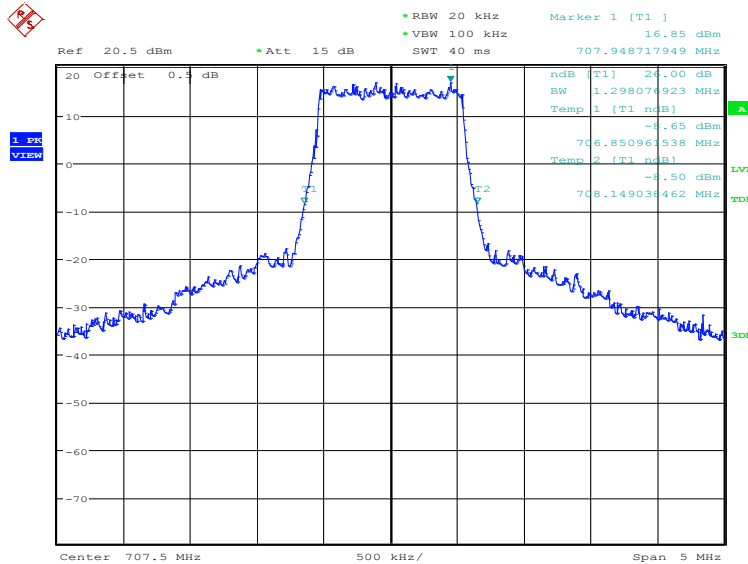
Frequency(MHz)	Occupied Bandwidth (-26dBc) (kHz)	
707.5	QPSK	16QAM
	1274.04	1298.08

**LTE band 12, 1.4MHz Bandwidth, QPSK (-26dBc BW)**



Date: 19.NOV.2020 16:51:04

**LTE band 12, 1.4MHz Bandwidth, 16QAM (-26dBc BW)**

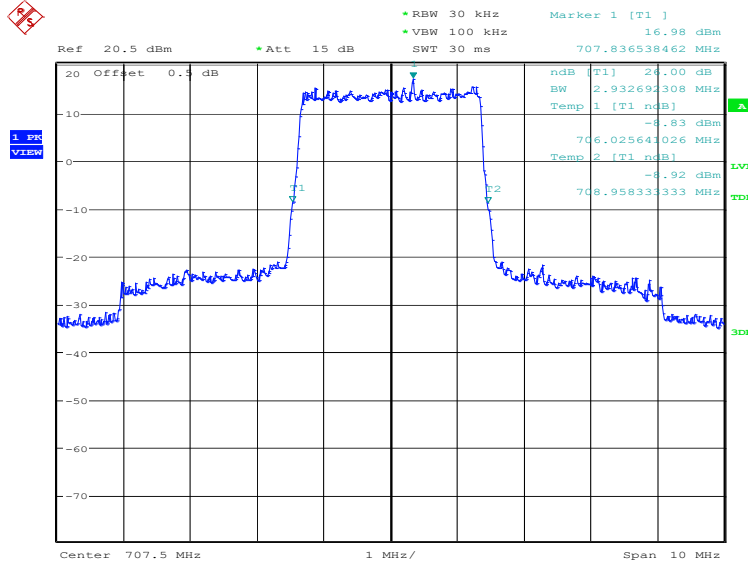


Date: 19.NOV.2020 16:51:43

### LTE band 12, 3MHz (-26dBc)

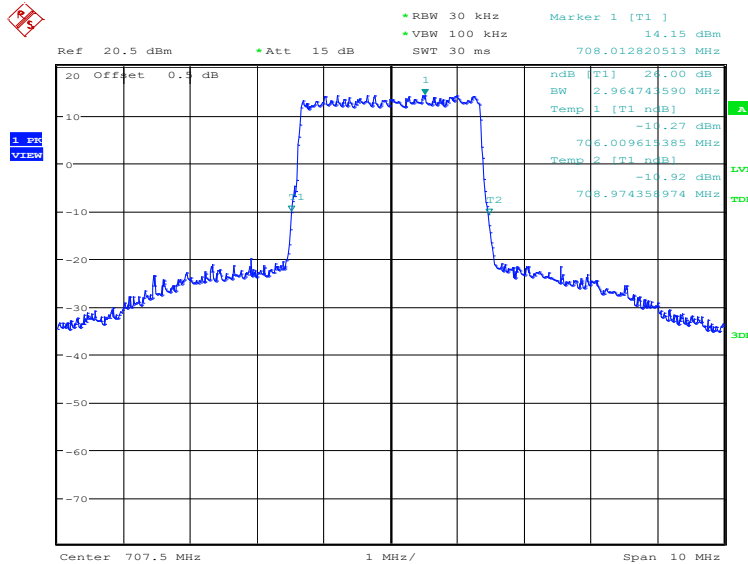
Frequency(MHz)	Occupied Bandwidth (-26dBc) (kHz)	
707.5	QPSK	16QAM
	2932.69	2964.74

### LTE band 12, 3MHz Bandwidth, QPSK (-26dBc BW)



Date: 19.NOV.2020 16:52:24

### LTE band 12, 3MHz Bandwidth, 16QAM (-26dBc BW)

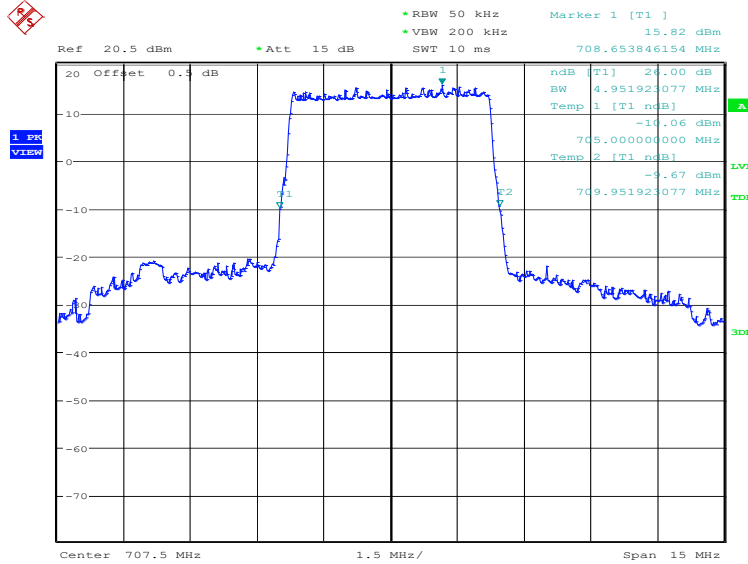


Date: 19.NOV.2020 16:53:04

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

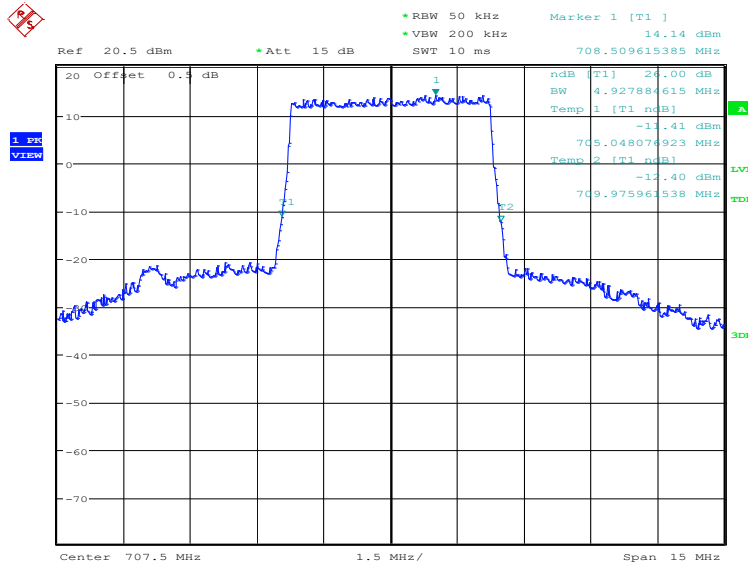
Frequency(MHz)	Occupied Bandwidth (-26dBc) (kHz)	
707.5	QPSK	16QAM
	4951.92	4927.88

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



Date: 19.NOV.2020 16:53:45

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



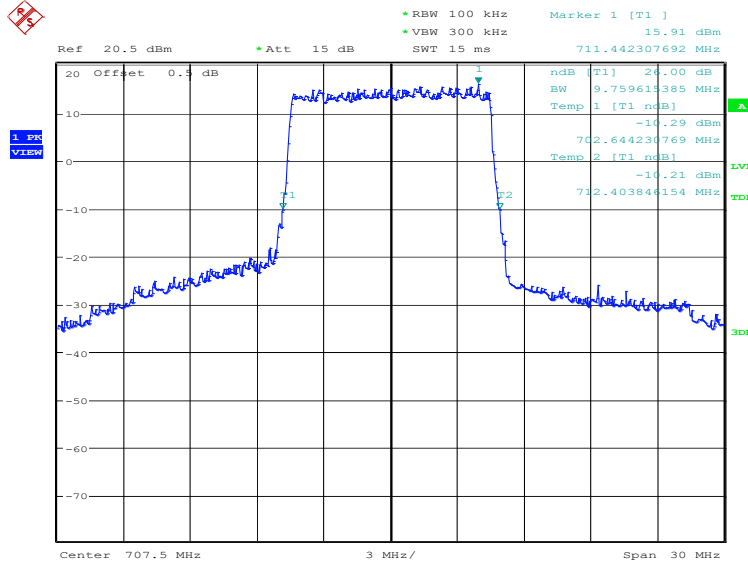
Date: 19.NOV.2020 16:54:24



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

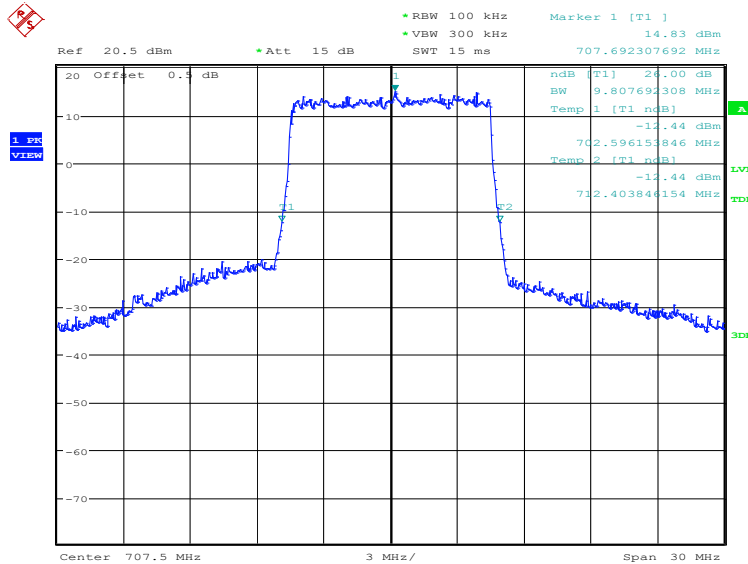
Frequency(MHz)	Occupied Bandwidth (-26dBc) (kHz)	
707.5	QPSK	16QAM
	9759.62	9807.69

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



Date: 19.NOV.2020 16:55:05

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

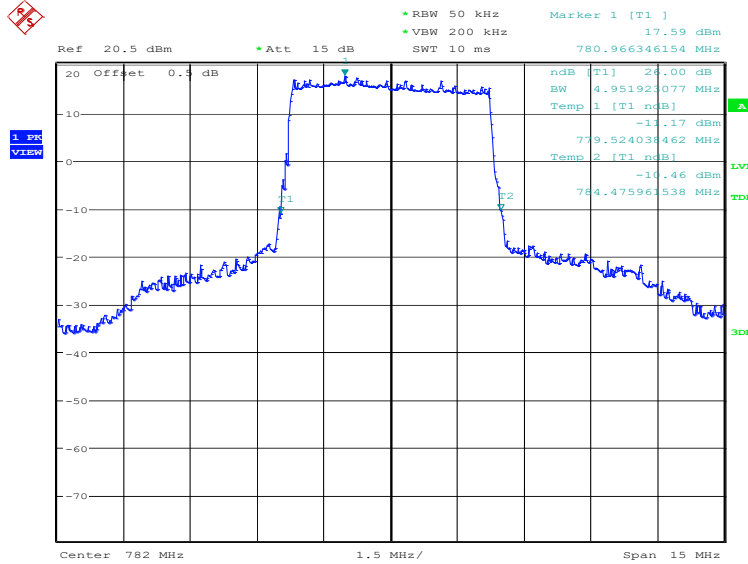


Date: 19.NOV.2020 16:55:45

### LTE band 13, 5MHz (-26dBc)

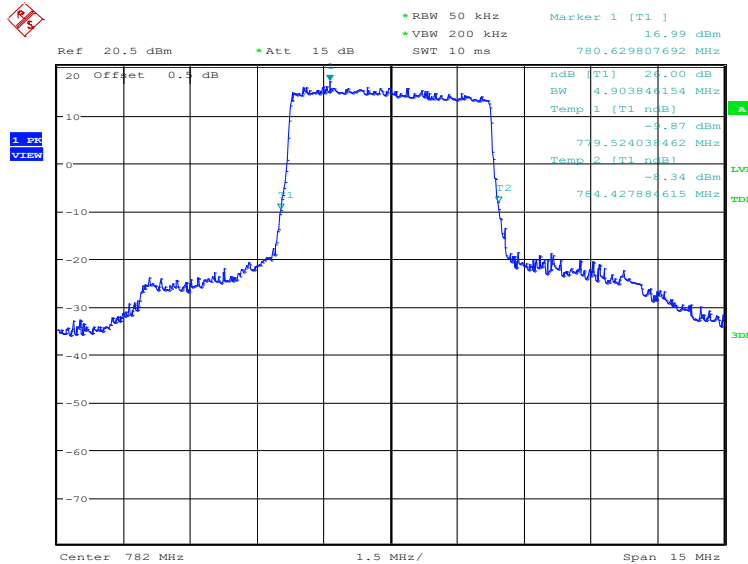
Frequency(MHz)	Occupied Bandwidth (-26dBc) (kHz)	
782.0	QPSK	16QAM
	4951.92	4903.85

### LTE band 13, 5MHz Bandwidth, QPSK (-26dBc BW)



Date: 19.NOV.2020 16:56:27

### LTE band 13, 5MHz Bandwidth, 16QAM (-26dBc BW)

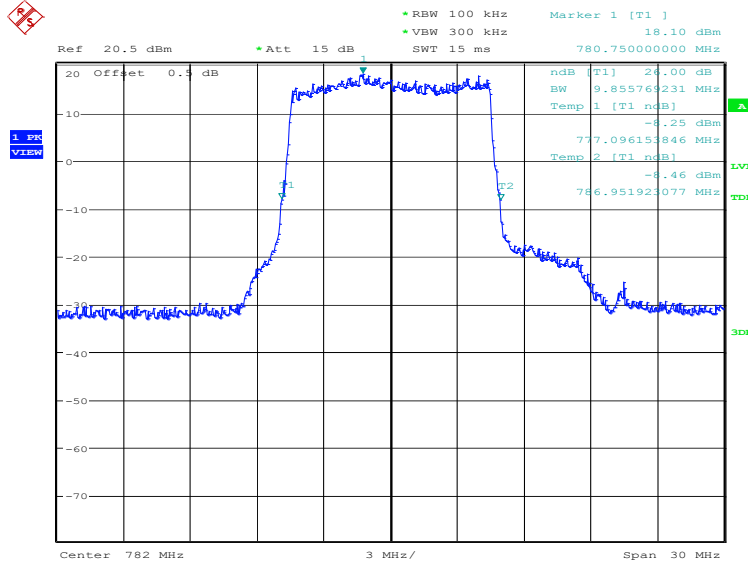


Date: 19.NOV.2020 16:57:07

**LTE band 13, 10MHz (-26dBc)**

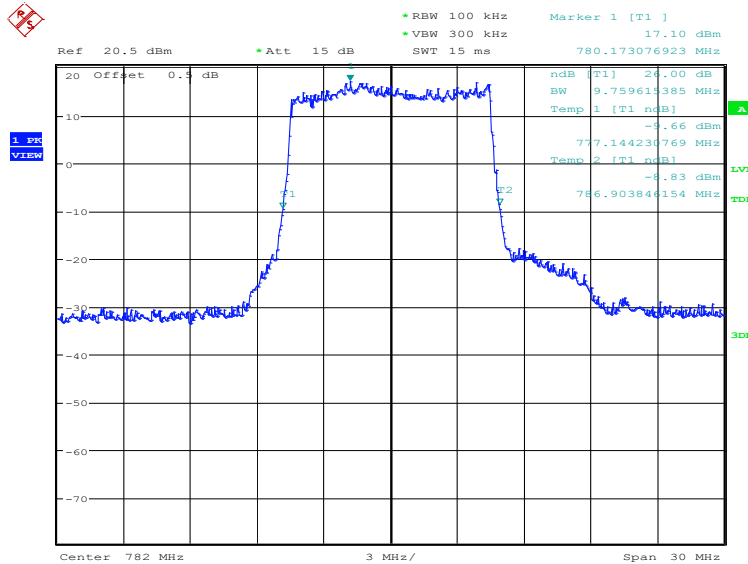
Frequency(MHz)	Occupied Bandwidth (-26dBc) (kHz)	
782.0	QPSK	16QAM
	9855.77	9759.62

**LTE band 13, 10MHz Bandwidth, QPSK (-26dBc BW)**



Date: 19.NOV.2020 16:57:48

**LTE band 13, 10MHz Bandwidth, 16QAM (-26dBc BW)**

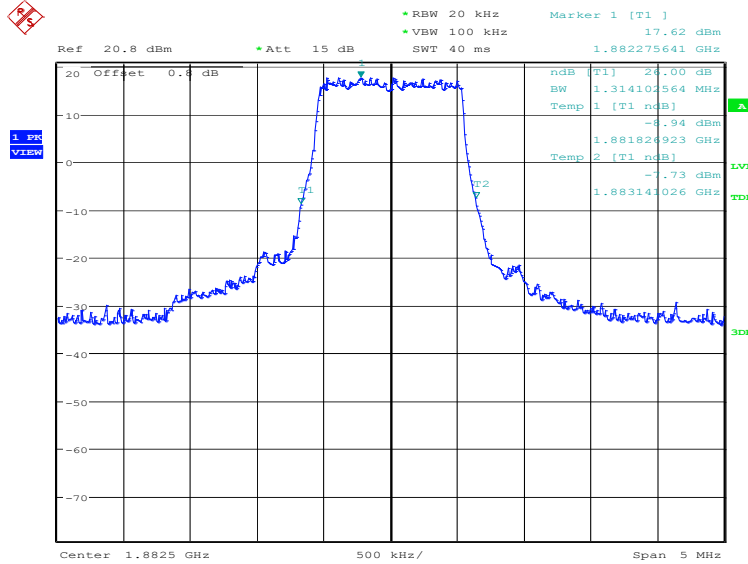


Date: 19.NOV.2020 16:58:27

### LTE band 25, 1.4MHz (-26dBc)

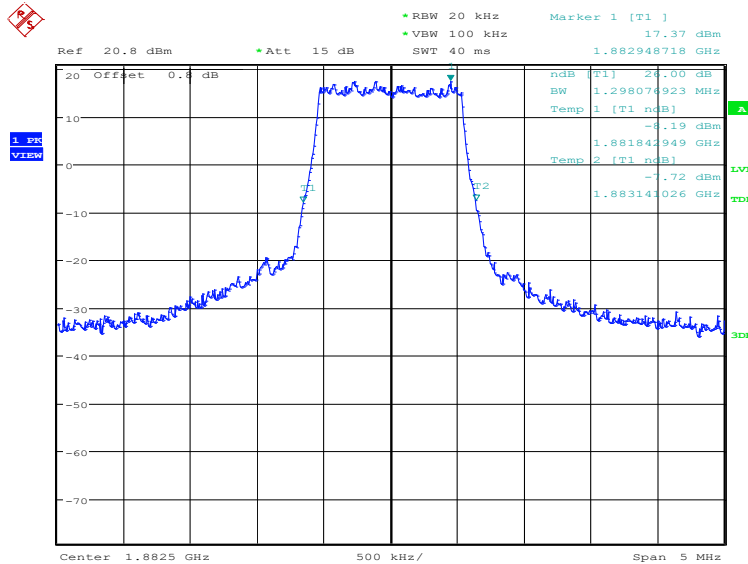
Frequency(MHz)	Occupied Bandwidth (-26dBc) (kHz)	
	1882.5	QPSK
1314.10		1298.08

### LTE band 25, 1.4MHz Bandwidth, QPSK (-26dBc BW)



Date: 19.NOV.2020 16:59:11

### LTE band 25, 1.4MHz Bandwidth, 16QAM (-26dBc BW)

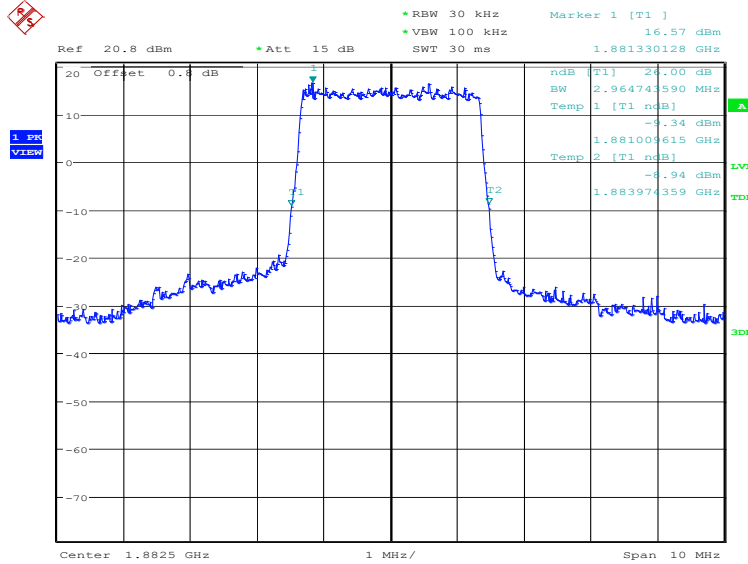


Date: 19.NOV.2020 16:59:50

**LTE band 25, 3MHz (-26dBc)**

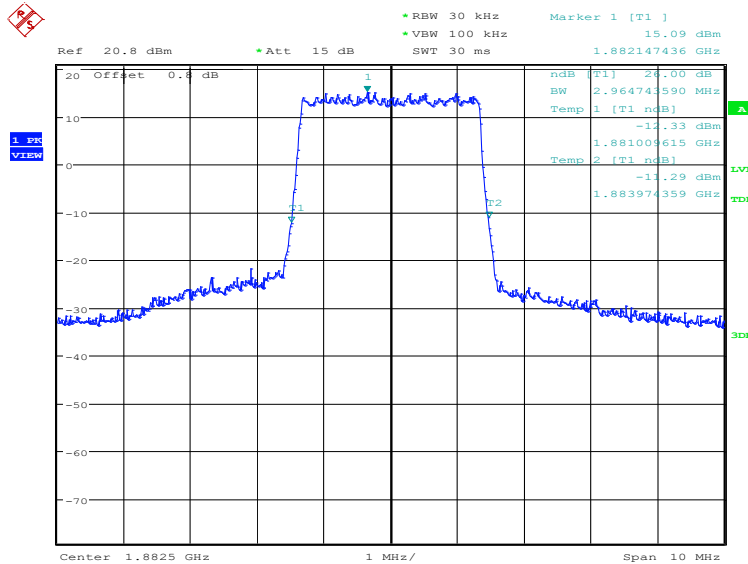
Frequency(MHz)	Occupied Bandwidth (-26dBc) (kHz)	
1882.5	QPSK	16QAM
	2964.74	2964.74

**LTE band 25, 3MHz Bandwidth, QPSK (-26dBc BW)**



Date: 19.NOV.2020 17:00:31

**LTE band 25, 3MHz Bandwidth, 16QAM (-26dBc BW)**

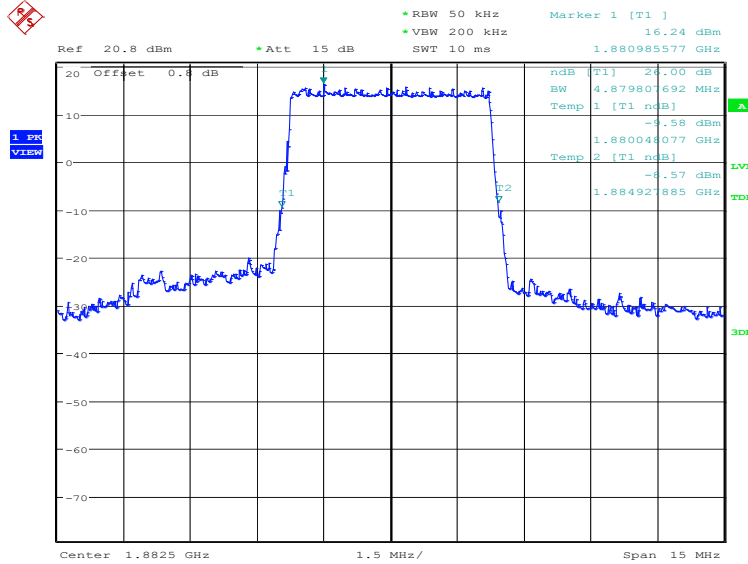


Date: 19.NOV.2020 17:01:11

### LTE band 25, 5MHz (-26dBc)

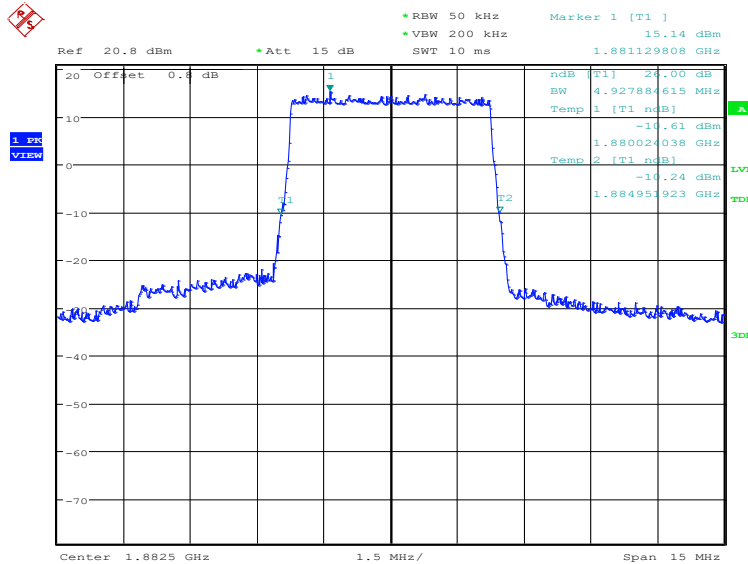
Frequency(MHz)	Occupied Bandwidth (-26dBc) (kHz)	
1882.5	QPSK	16QAM
	4879.81	4927.88

### LTE band 25, 5MHz Bandwidth, QPSK (-26dBc BW)



Date: 19.NOV.2020 17:01:52

### LTE band 25, 5MHz Bandwidth, 16QAM (-26dBc BW)

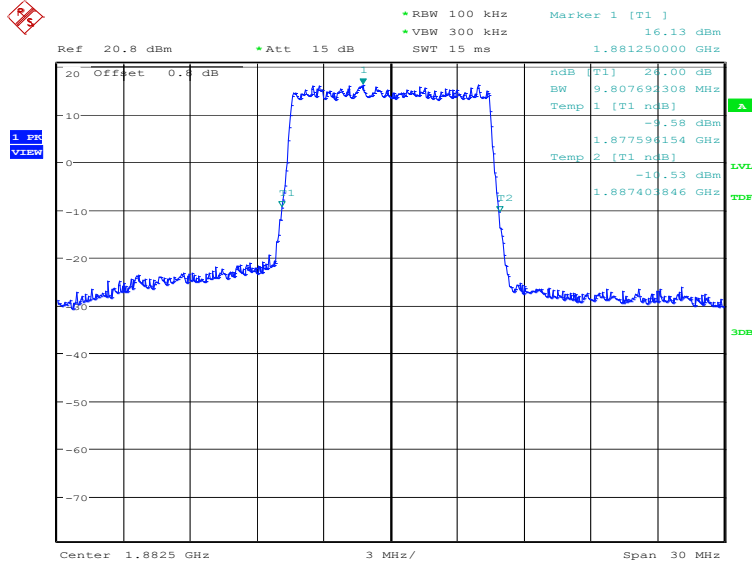


Date: 19.NOV.2020 17:02:31

**LTE band 25, 10MHz (-26dBc)**

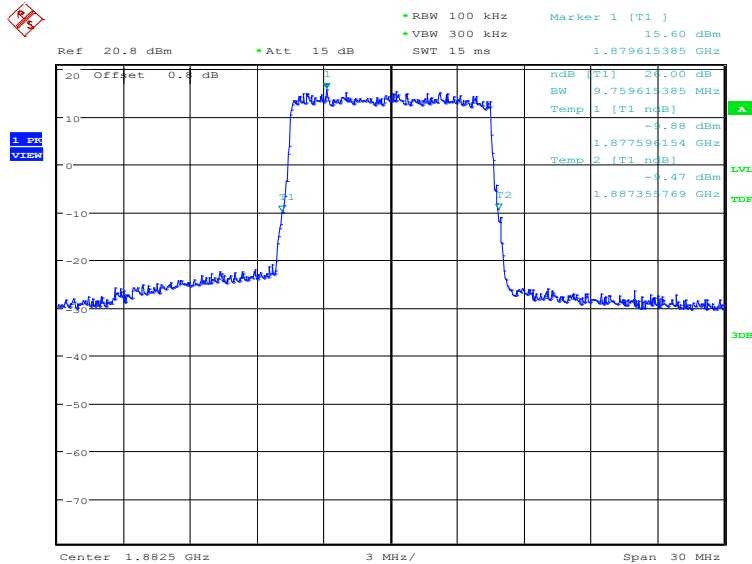
Frequency(MHz)	Occupied Bandwidth (-26dBc) (kHz)	
1882.5	QPSK	16QAM
	9807.69	9759.62

**LTE band 25, 10MHz Bandwidth, QPSK (-26dBc BW)**



Date: 19.NOV.2020 17:03:13

**LTE band 25, 10MHz Bandwidth, 16QAM (-26dBc BW)**

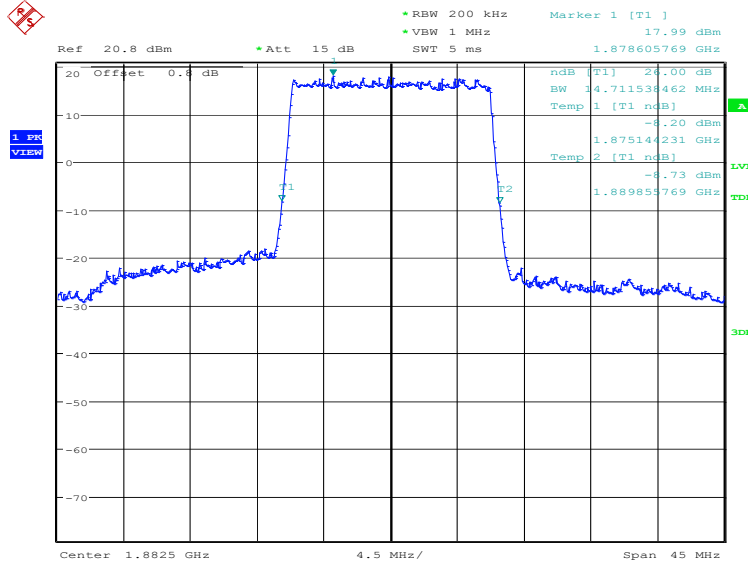


Date: 19.NOV.2020 17:03:52

**LTE band 25, 15MHz (-26dBc)**

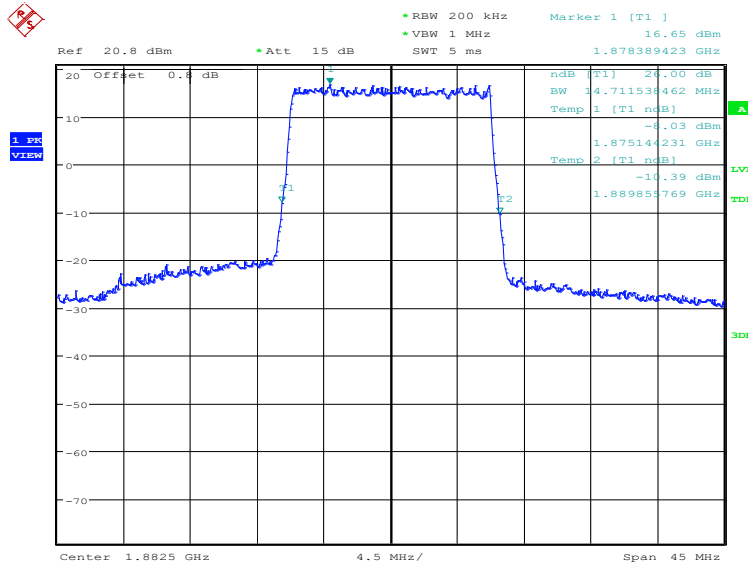
Frequency(MHz)	Occupied Bandwidth (-26dBc) (kHz)	
	1882.5	QPSK
14711.54		14711.54

**LTE band 25, 15MHz Bandwidth, QPSK (-26dBc BW)**



Date: 19.NOV.2020 17:04:33

**LTE band 25, 15MHz Bandwidth, 16QAM (-26dBc BW)**



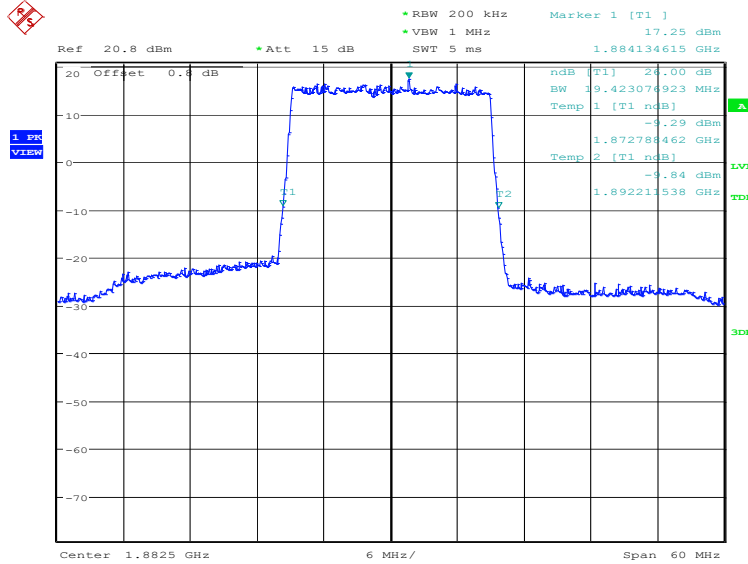
Date: 19.NOV.2020 17:05:13



**LTE band 25, 20MHz (-26dBc)**

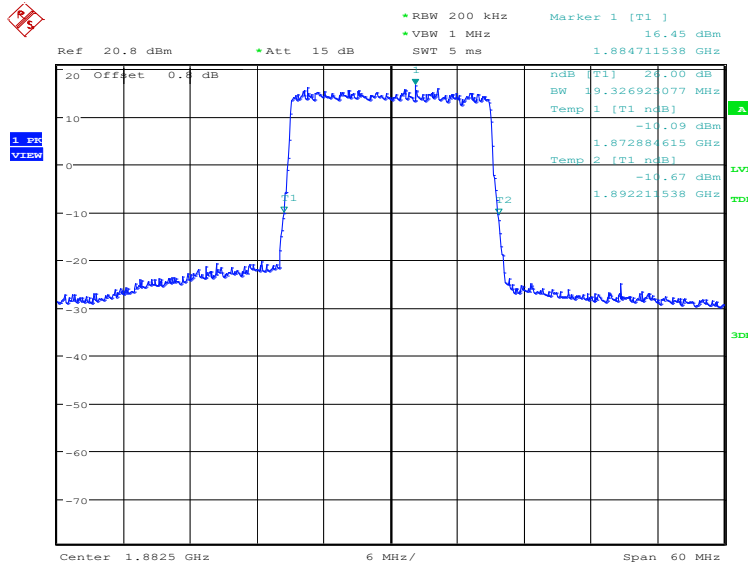
Frequency(MHz)	Occupied Bandwidth (-26dBc) (kHz)	
1882.5	QPSK	16QAM
	19423.08	19326.92

**LTE band 25, 20MHz Bandwidth, QPSK (-26dBc BW)**



Date: 19.NOV.2020 17:05:54

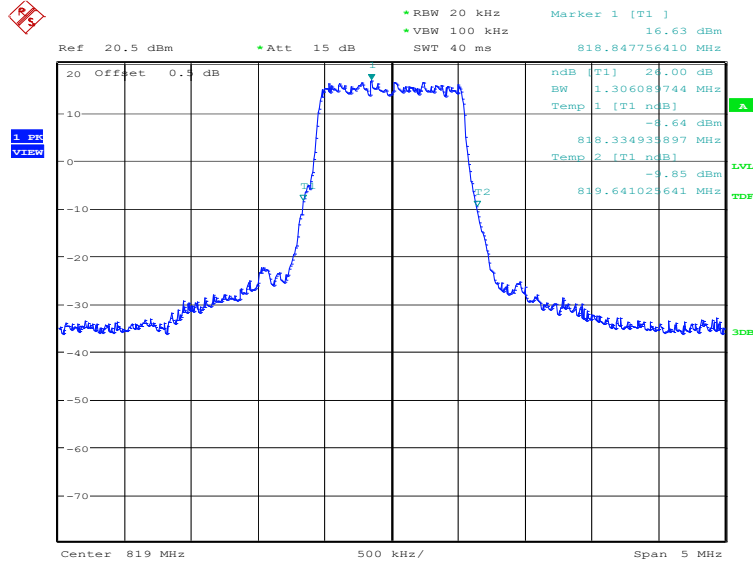
**LTE band 25, 20MHz Bandwidth, 16QAM (-26dBc BW)**



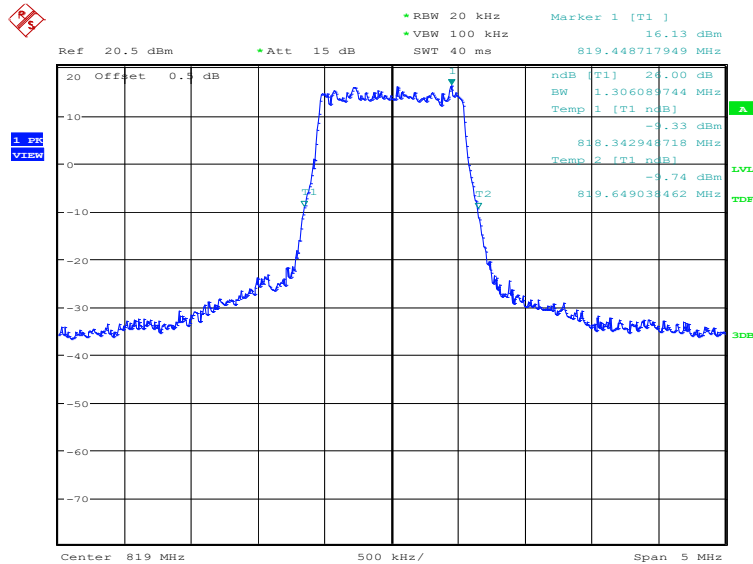
Date: 19.NOV.2020 17:06:34

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

Frequency(MHz)	Occupied Bandwidth (-26dBc) (kHz)	
	819.0	QPSK
1306.09		1306.09

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


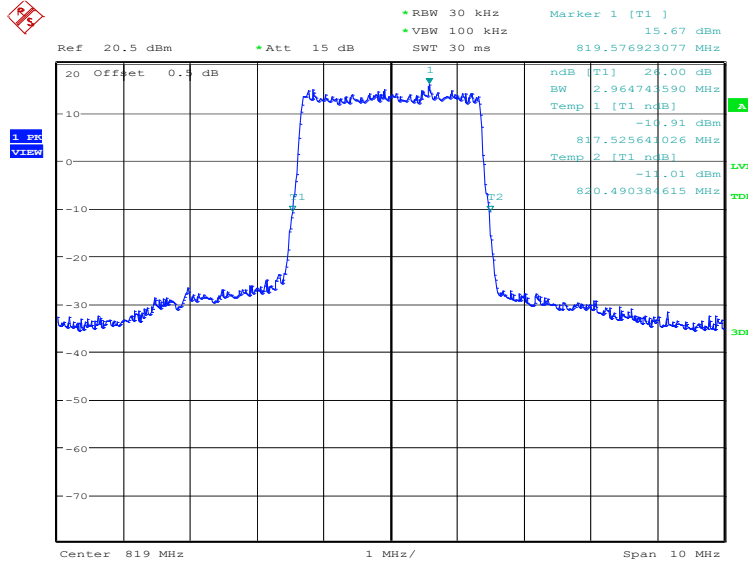
Date: 19.NOV.2020 17:15:30

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


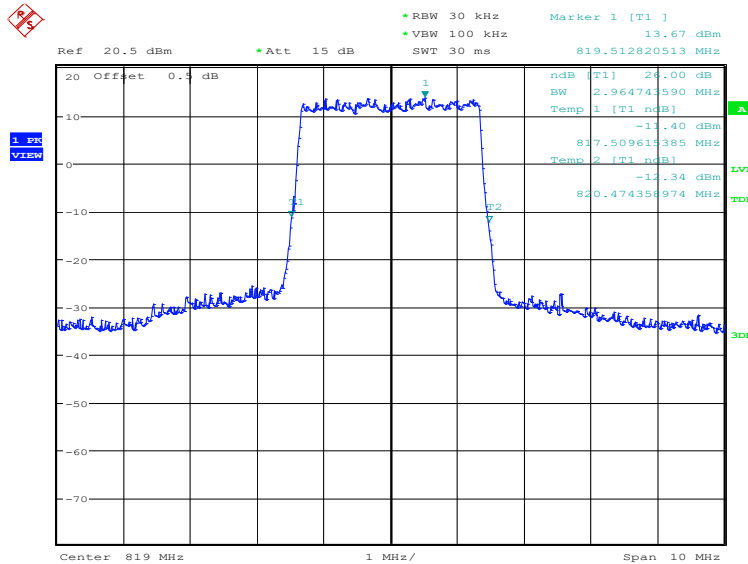
Date: 19.NOV.2020 17:16:10

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

Frequency(MHz)	Occupied Bandwidth (-26dBc) (kHz)	
819.0	QPSK	16QAM
	2964.74	2964.74

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


Date: 19.NOV.2020 17:16:51

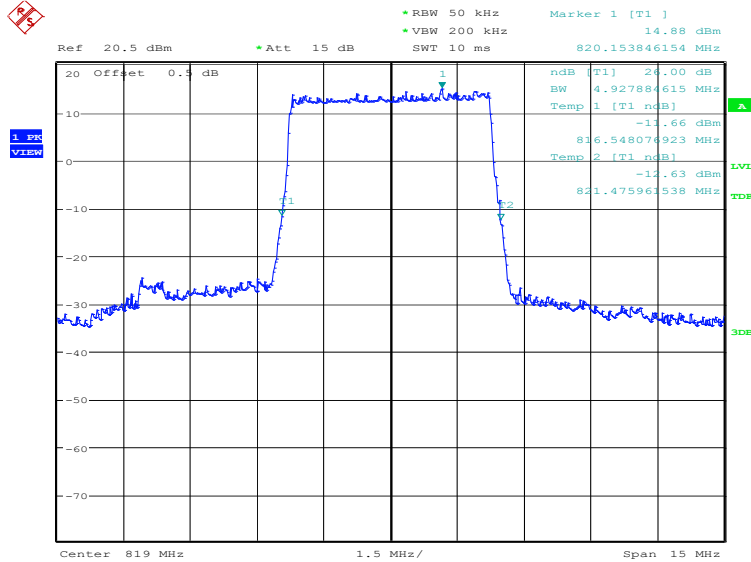
**LTE band 26(814MHz~824MHz), 3MHz Bandwidth, 16QAM (-26dBc BW)**


Date: 19.NOV.2020 17:17:31

### LTE band 26(814MHz~824MHz), 5MHz (-26dBc)

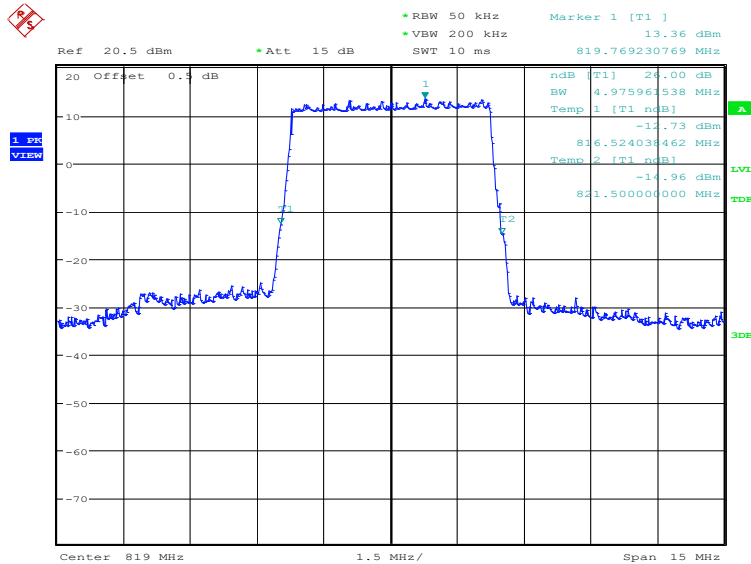
Frequency(MHz)	Occupied Bandwidth (-26dBc) (kHz)	
	819.0	QPSK
4927.88		4975.96

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



Date: 19.NOV.2020 17:18:12

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

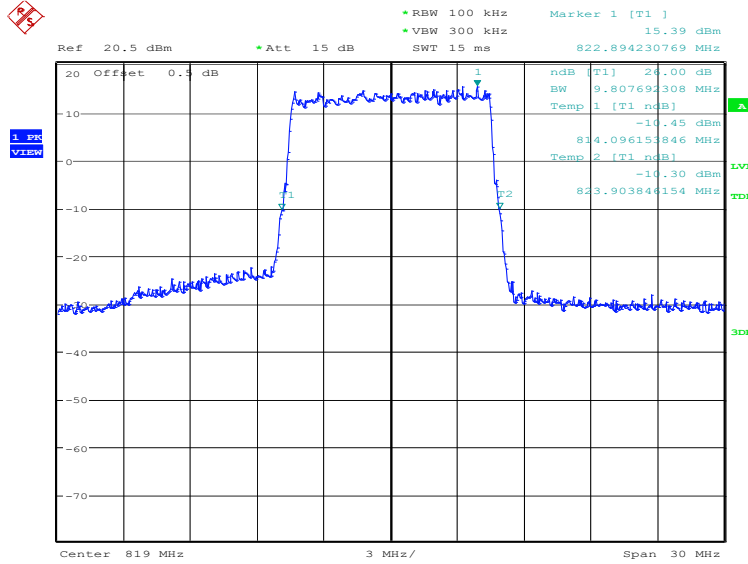


Date: 19.NOV.2020 17:18:52

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

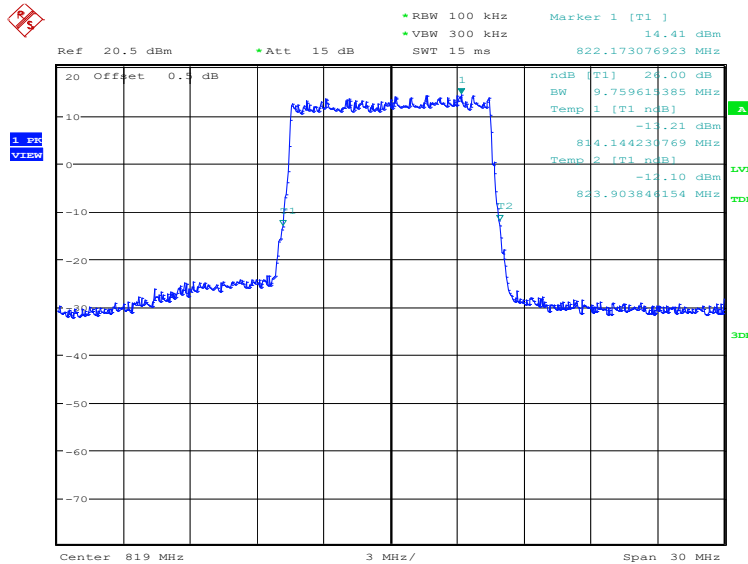
Frequency(MHz)	Occupied Bandwidth (-26dBc) (kHz)	
	819.0	QPSK
	9807.69	9759.62

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



Date: 19.NOV.2020 17:19:33

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

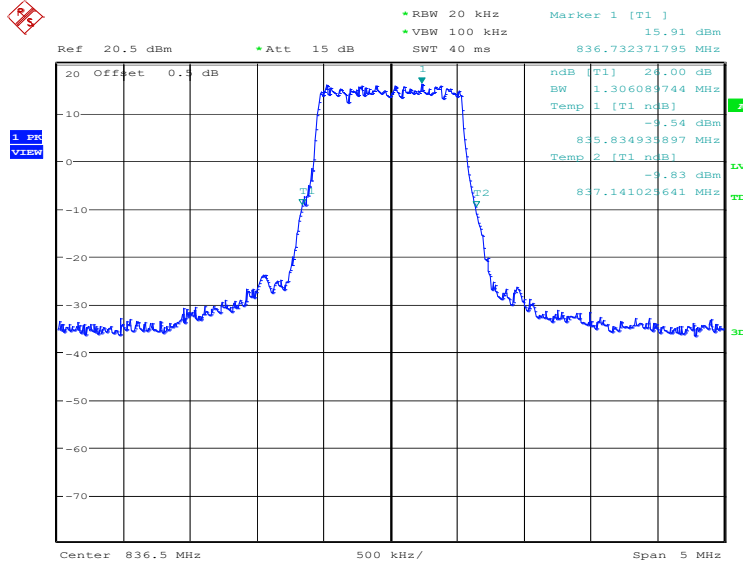


Date: 19.NOV.2020 17:20:13

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

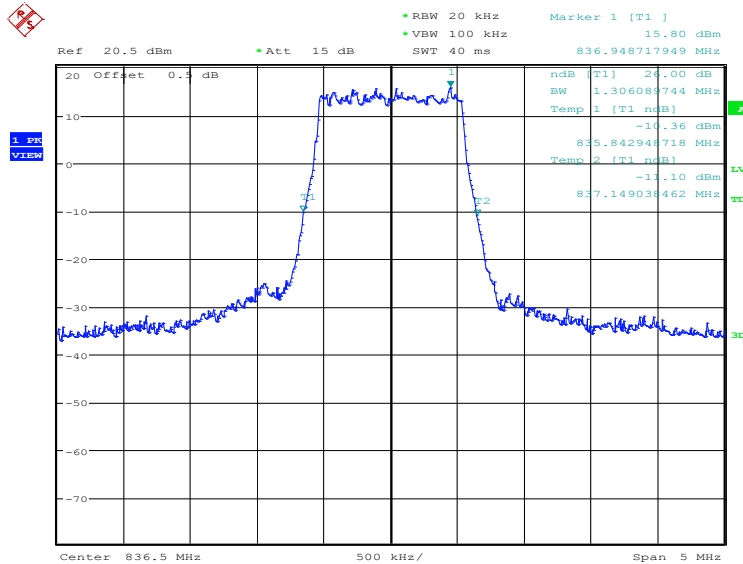
Frequency(MHz)	Occupied Bandwidth (-26dBc) (kHz)	
836.5	QPSK	16QAM
	1306.09	1306.09

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



Date: 19.NOV.2020 17:08:08

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

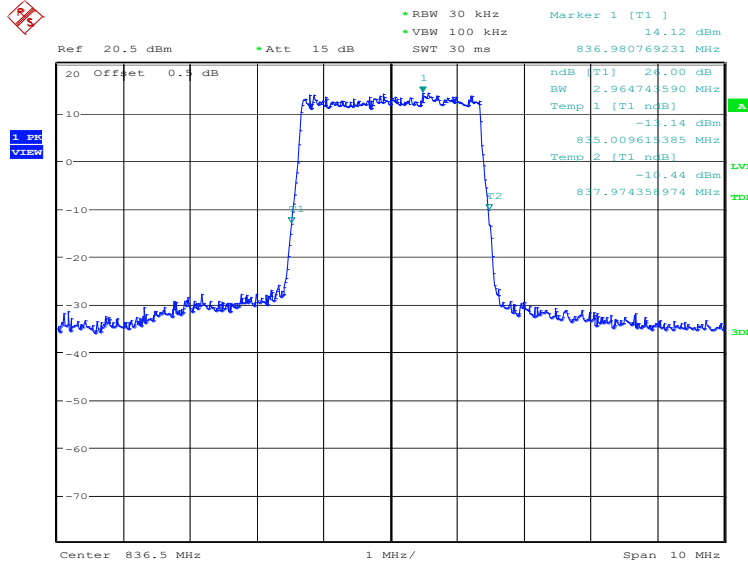


Date: 19.NOV.2020 17:08:47

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

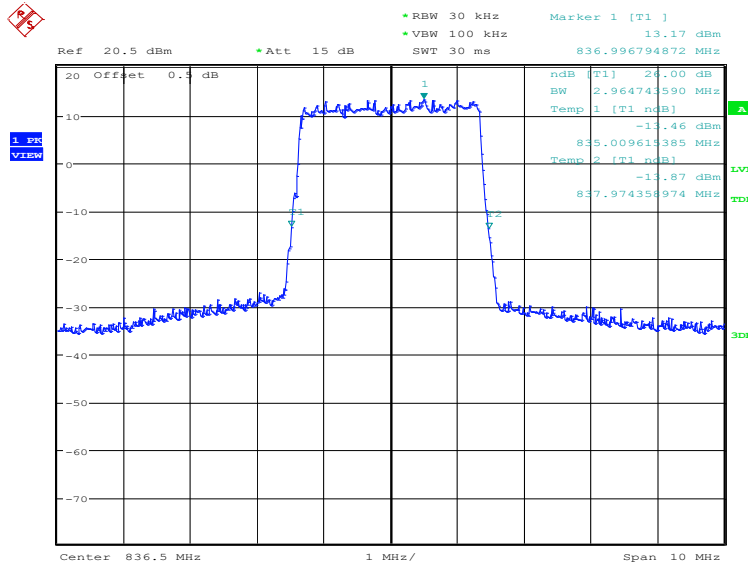
Frequency(MHz)	Occupied Bandwidth (-26dBc) (kHz)	
836.5	QPSK	16QAM
	2964.74	2964.74

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



Date: 19.NOV.2020 17:09:28

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

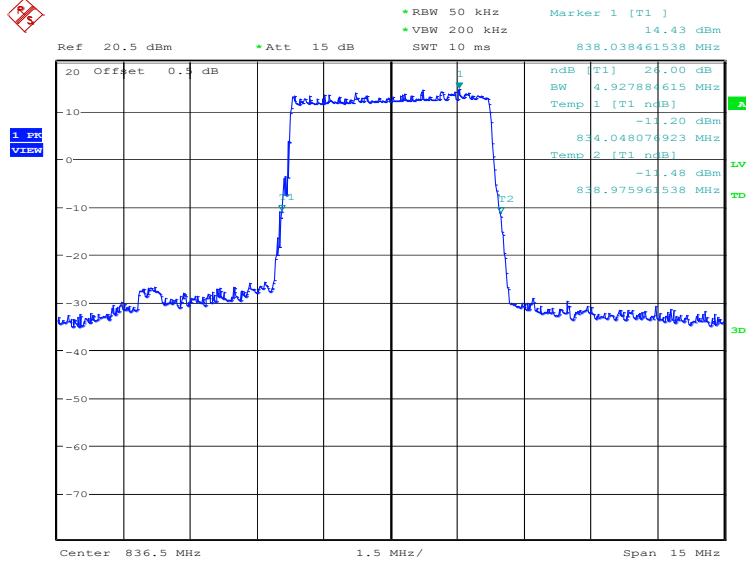


Date: 19.NOV.2020 17:10:08

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

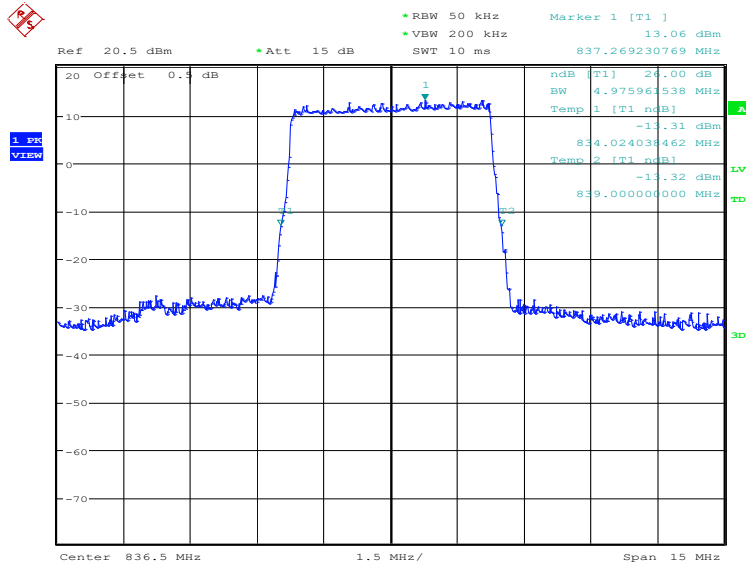
Frequency(MHz)	Occupied Bandwidth (-26dBc) (kHz)	
836.5	QPSK	16QAM
	4927.88	4975.96

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



Date: 19.NOV.2020 17:10:49

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



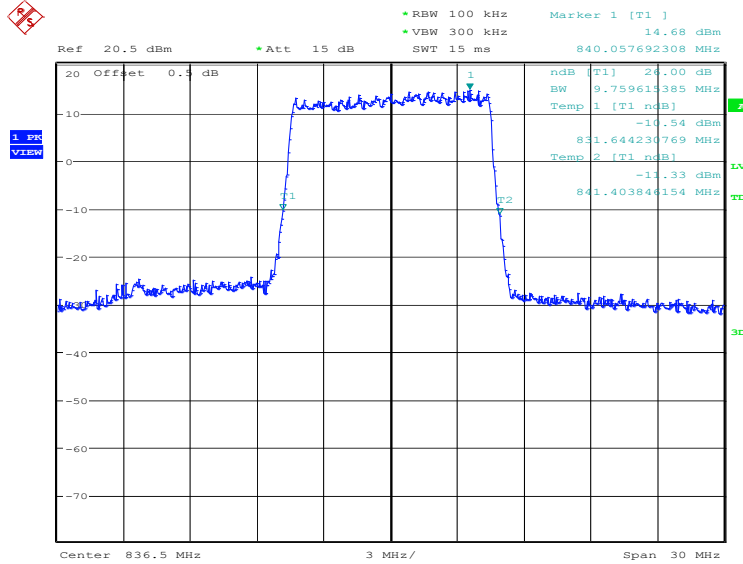
Date: 19.NOV.2020 17:11:29



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

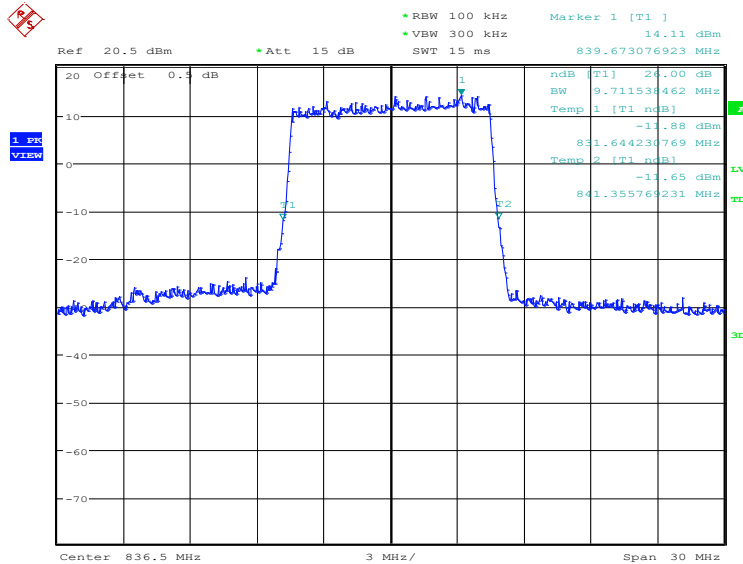
Frequency(MHz)	Occupied Bandwidth (-26dBc) (kHz)	
836.5	QPSK	16QAM
	9759.62	9711.54

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



Date: 19.NOV.2020 17:12:10

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

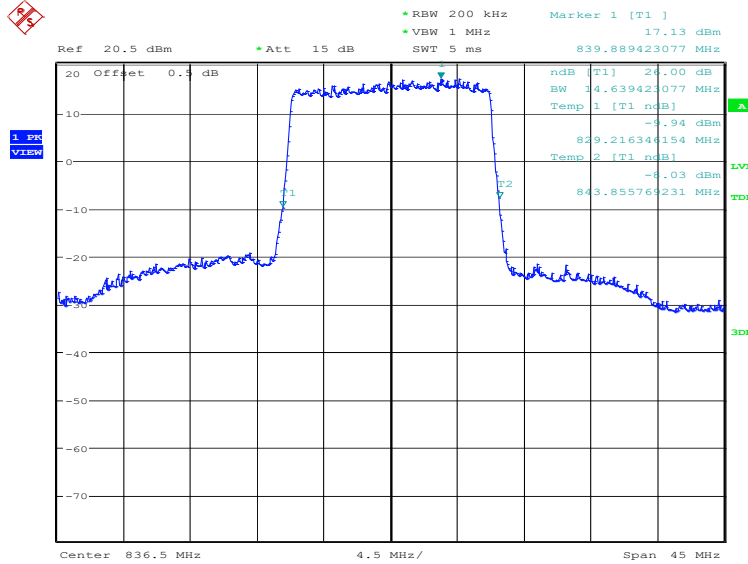


Date: 19.NOV.2020 17:12:50

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

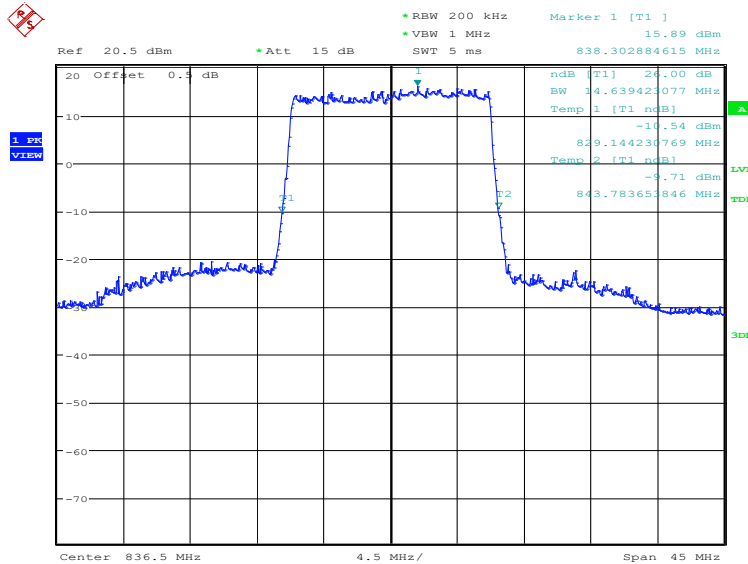
Frequency(MHz)	Occupied Bandwidth (-26dBc) (kHz)	
836.5	QPSK	16QAM
	14639.42	14639.42

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



Date: 19.NOV.2020 17:13:31

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

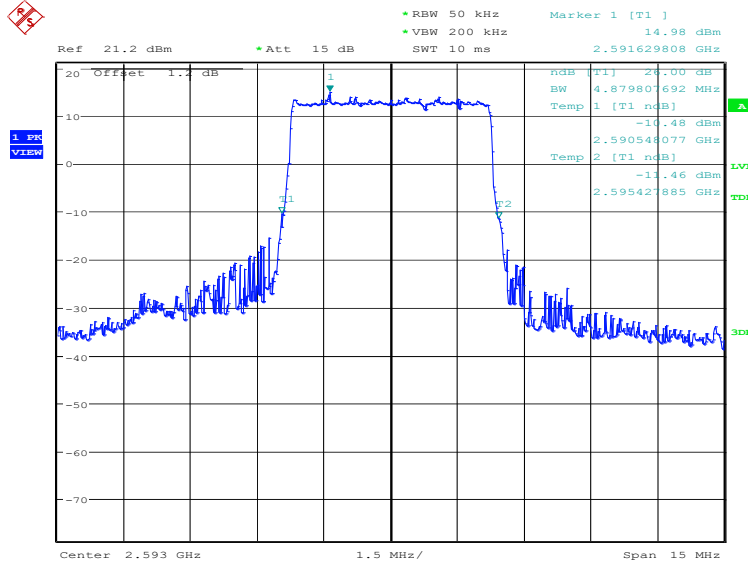


Date: 19.NOV.2020 17:14:11

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

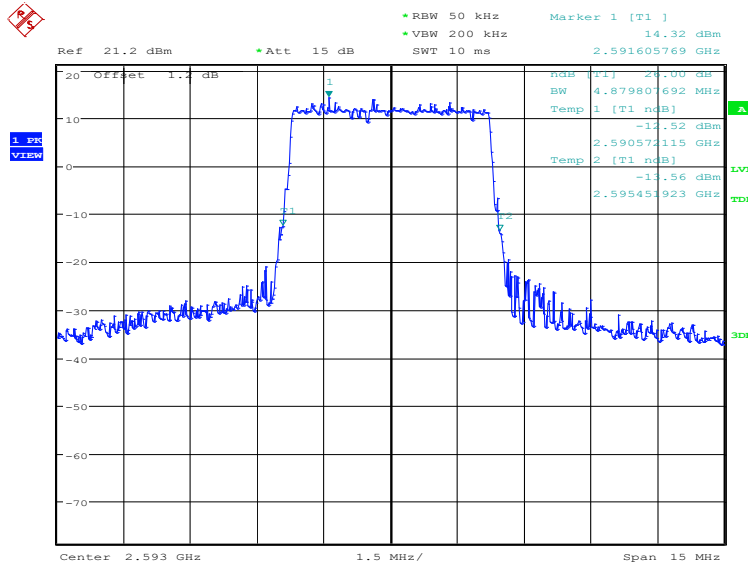
Frequency(MHz)	Occupied Bandwidth (-26dBc) (kHz)	
2593.0	QPSK	16QAM
	4879.81	4879.81

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



Date: 19.NOV.2020 17:29:41

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

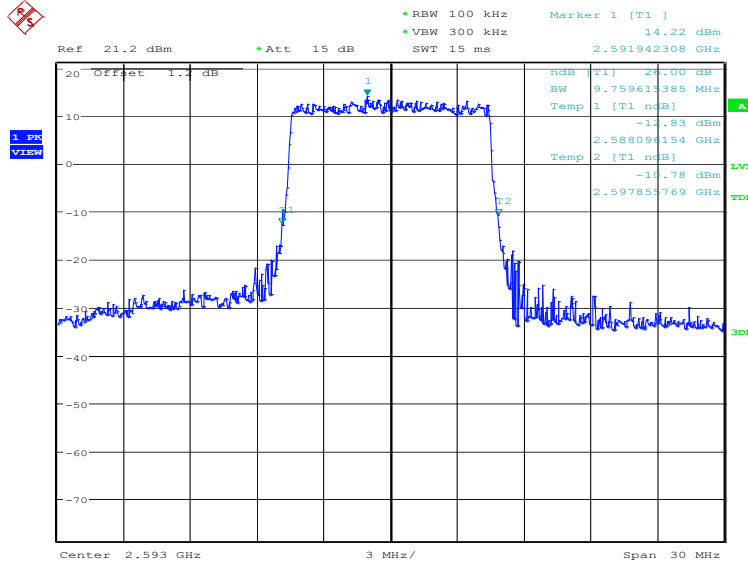


Date: 19.NOV.2020 17:30:21

### LTE band 41, 10MHz (-26dBc)

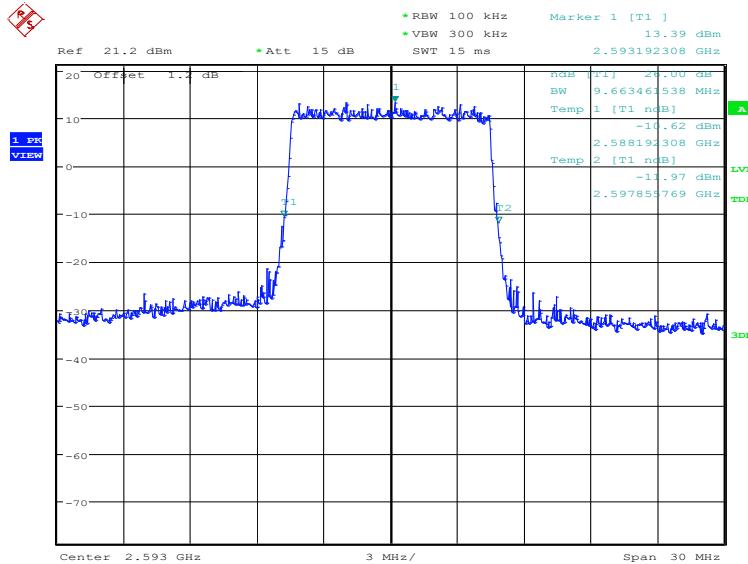
Frequency(MHz)	Occupied Bandwidth (-26dBc) (kHz)	
2593.0	QPSK	16QAM
	9759.62	9663.46

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



Date: 19.NOV.2020 17:31:02

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

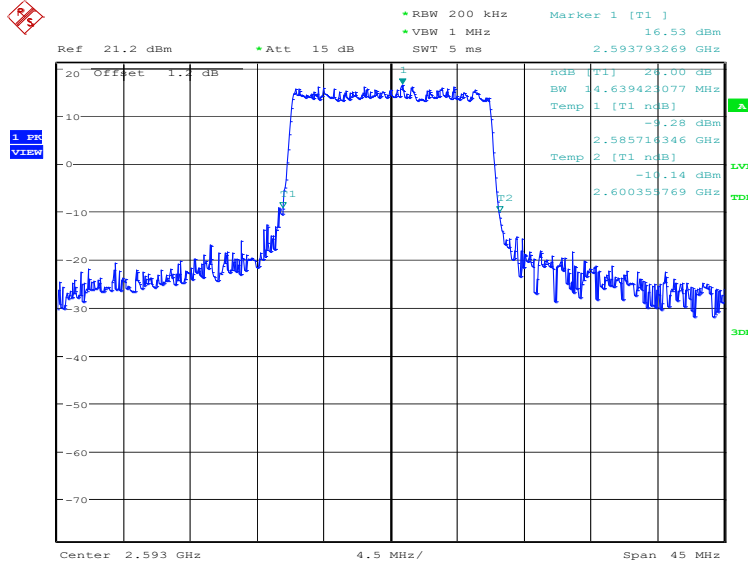


Date: 19.NOV.2020 17:31:42

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

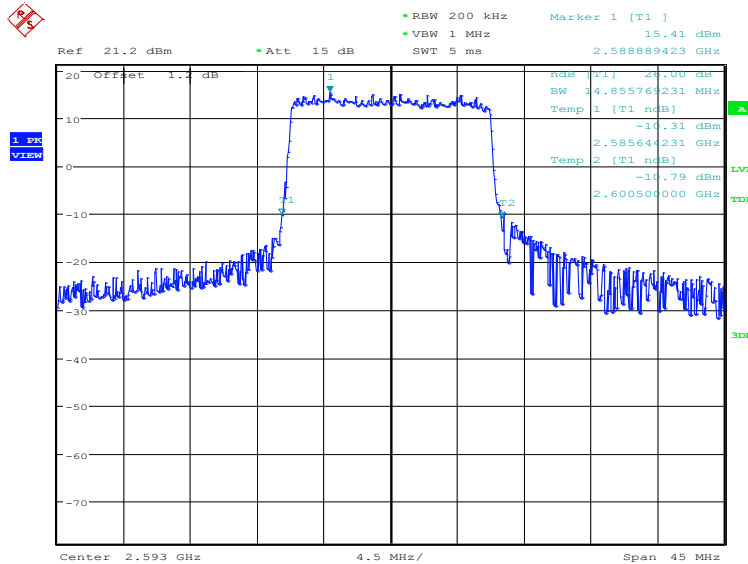
Frequency(MHz)	Occupied Bandwidth (-26dBc) (kHz)	
2593.0	QPSK	16QAM
	14639.42	14855.77

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



Date: 19.NOV.2020 17:32:24

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

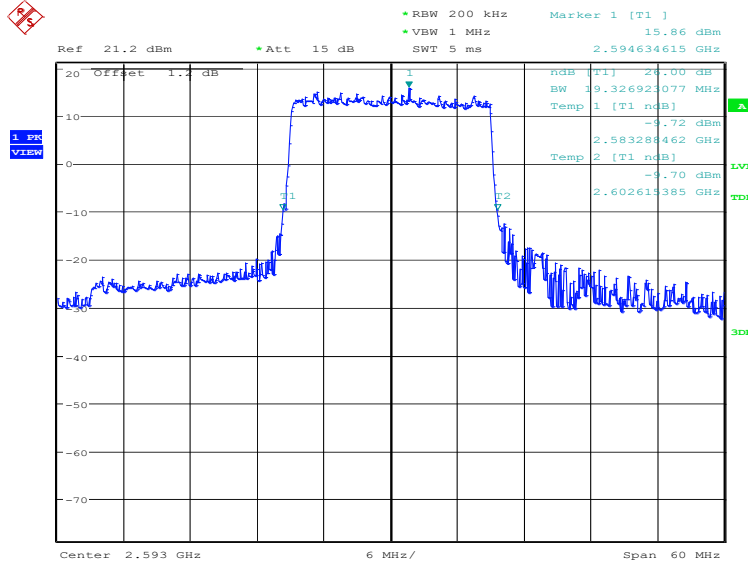


Date: 19.NOV.2020 17:33:04

### LTE band 41, 20MHz (-26dBc)

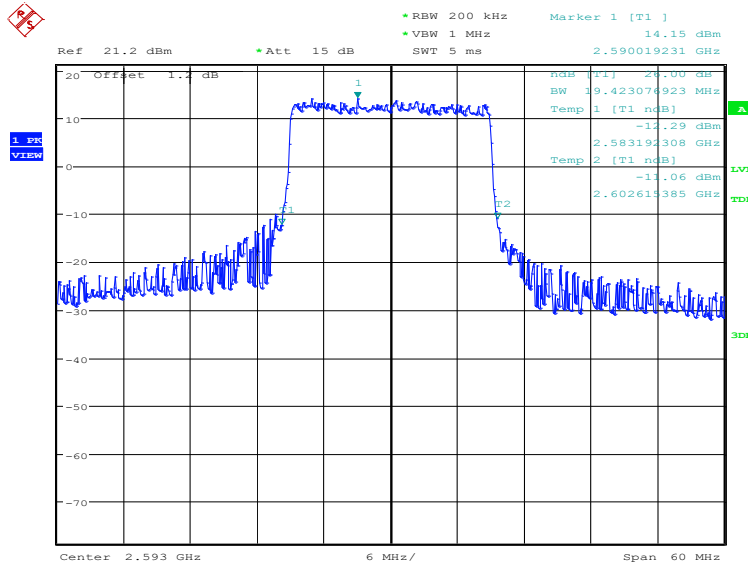
Frequency(MHz)	Occupied Bandwidth (-26dBc) (kHz)	
	2593.0	QPSK
19326.92		19423.08

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



Date: 19.NOV.2020 17:33:45

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

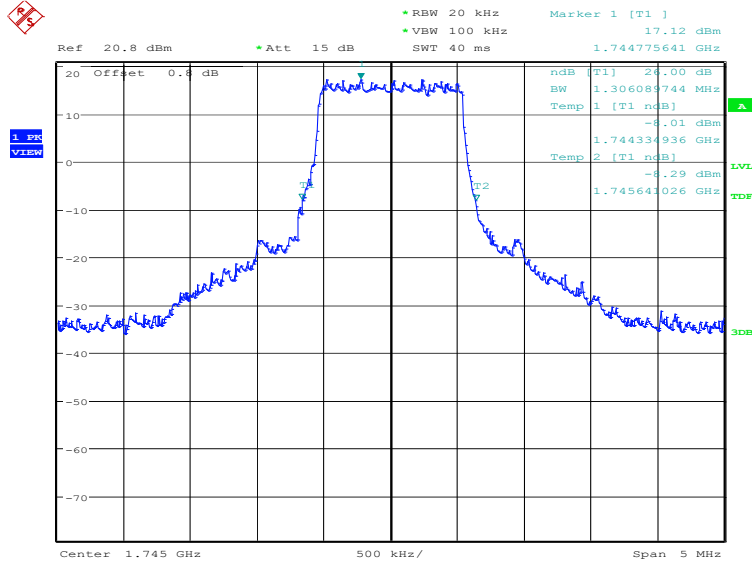


Date: 19.NOV.2020 17:34:25

### LTE band 66, 1.4MHz (-26dBc)

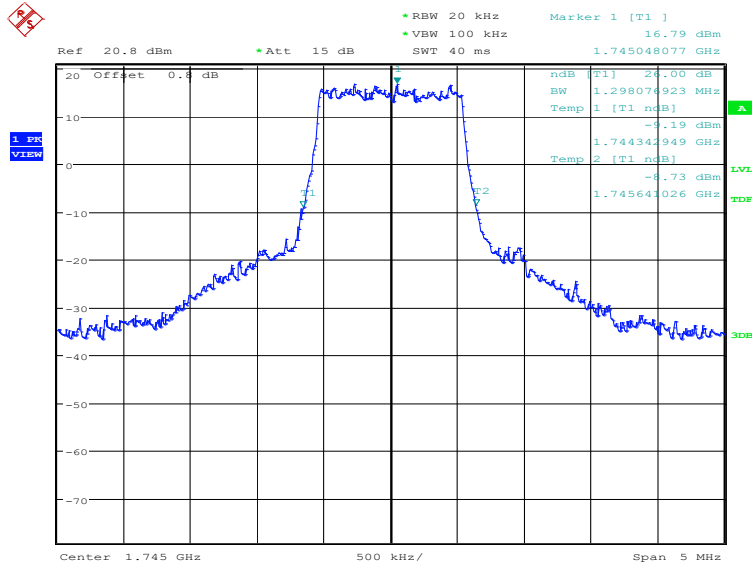
Frequency(MHz)	Occupied Bandwidth (-26dBc) (kHz)	
	1745.0	QPSK
1306.09		1298.08

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



Date: 19.NOV.2020 17:20:56

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

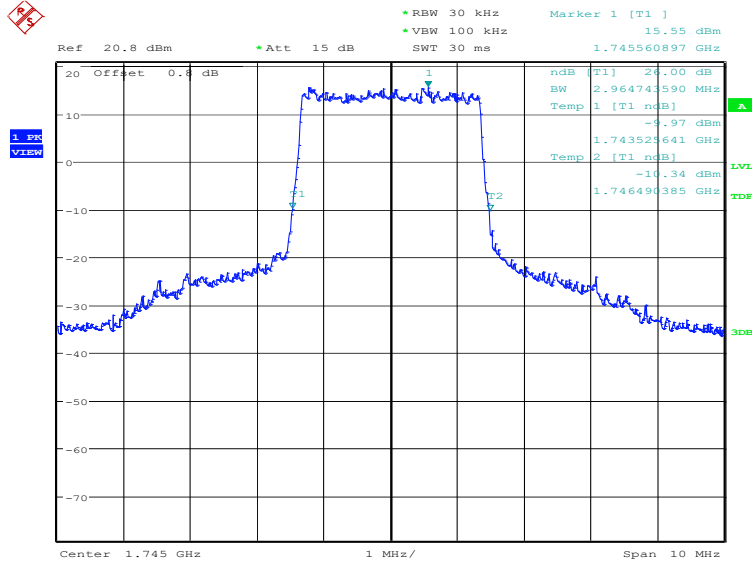


Date: 19.NOV.2020 17:21:36

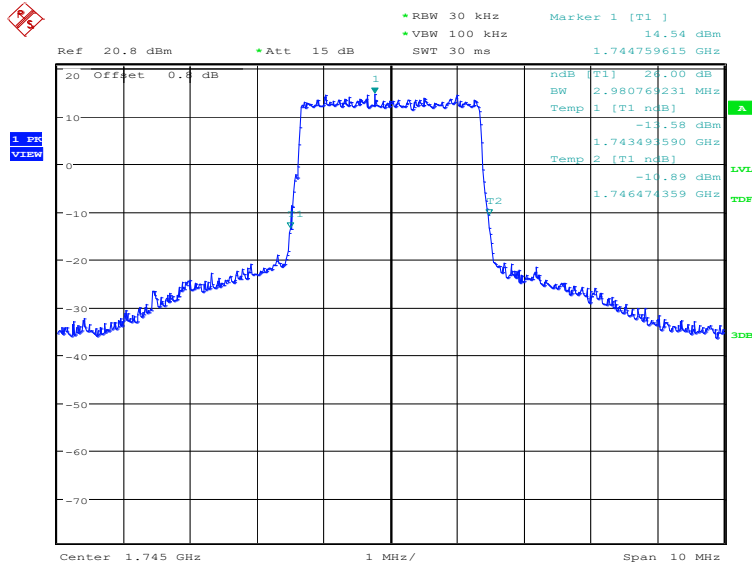
### LTE band 66, 3MHz (-26dBc)

Frequency(MHz)	Occupied Bandwidth (-26dBc) (kHz)	
	1745.0	QPSK
2964.74		2980.77

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



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

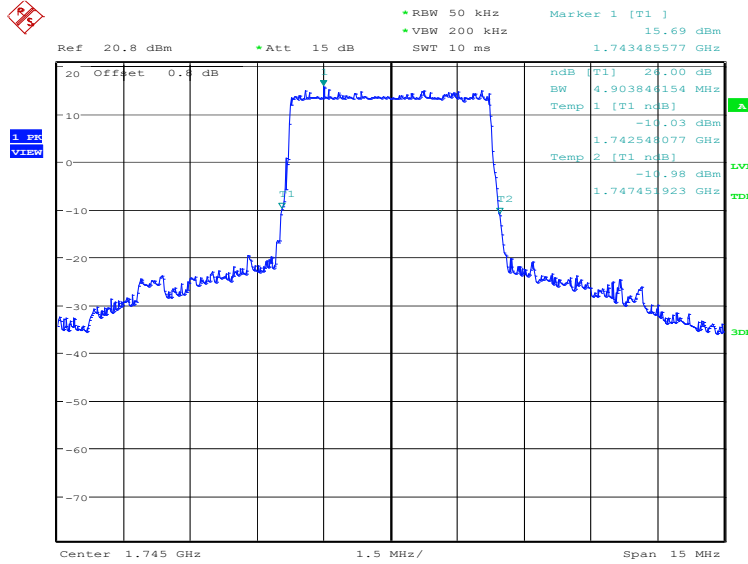




**LTE band 66, 5MHz (-26dBc)**

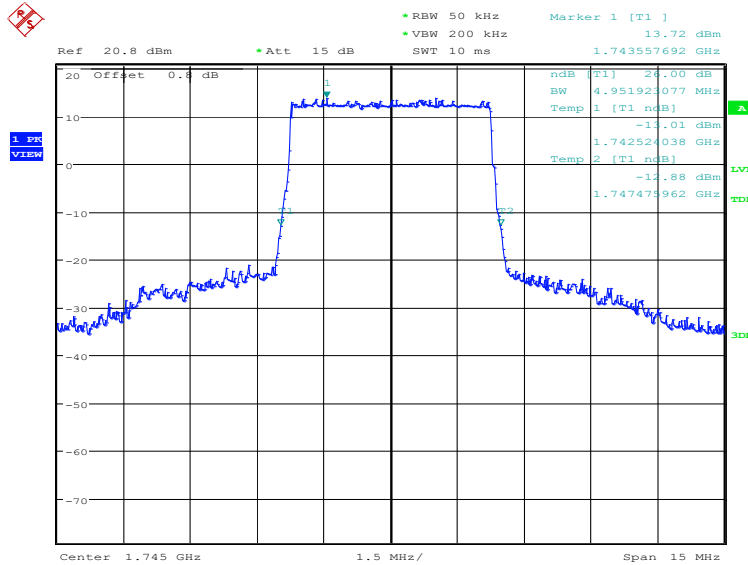
Frequency(MHz)	Occupied Bandwidth (-26dBc) (kHz)	
	1745.0	QPSK
4903.85		4951.92

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



Date: 19.NOV.2020 17:23:38

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

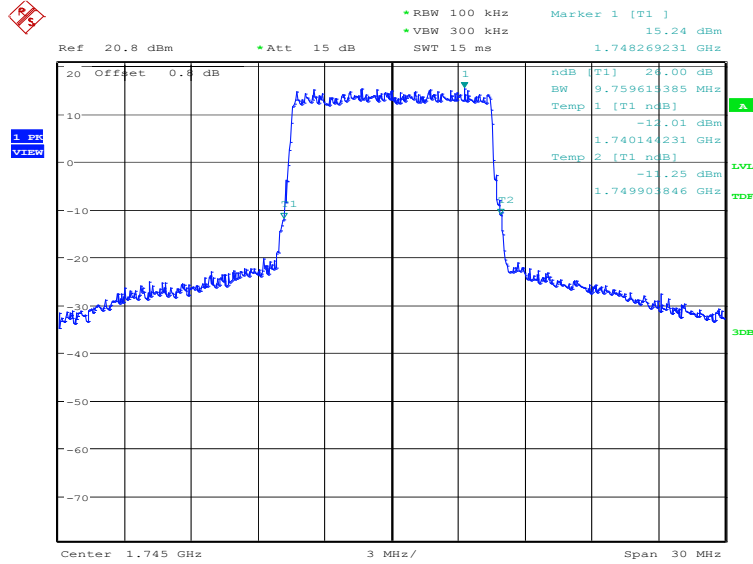


Date: 19.NOV.2020 17:24:18

### LTE band 66, 10MHz (-26dBc)

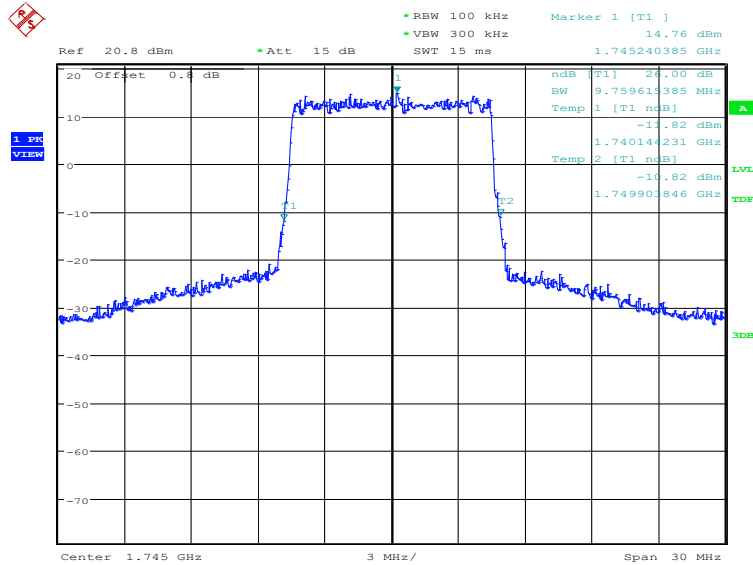
Frequency(MHz)	Occupied Bandwidth (-26dBc) (kHz)	
	1745.0	QPSK
9759.62		9759.62

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



Date: 19.NOV.2020 17:24:59

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

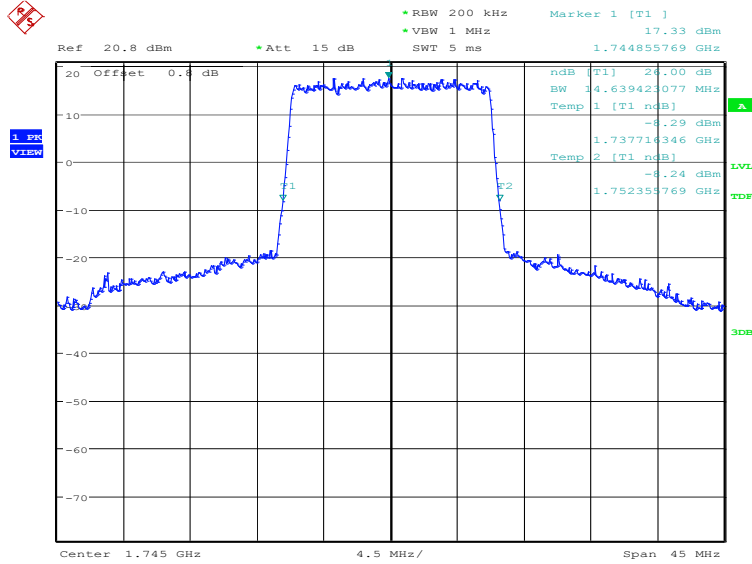


Date: 19.NOV.2020 17:25:39

### LTE band 66, 15MHz (-26dBc)

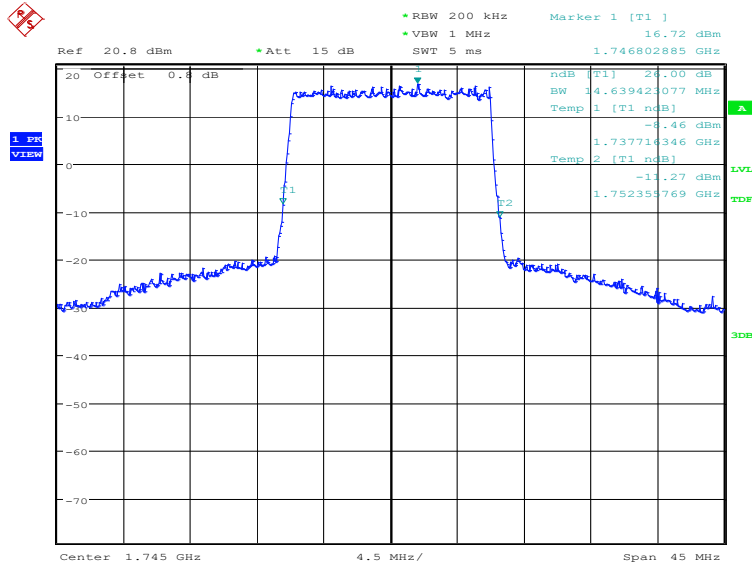
Frequency(MHz)	Occupied Bandwidth (-26dBc) (kHz)	
	1745.0	QPSK
14639.42		14639.42

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



Date: 19.NOV.2020 17:26:20

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

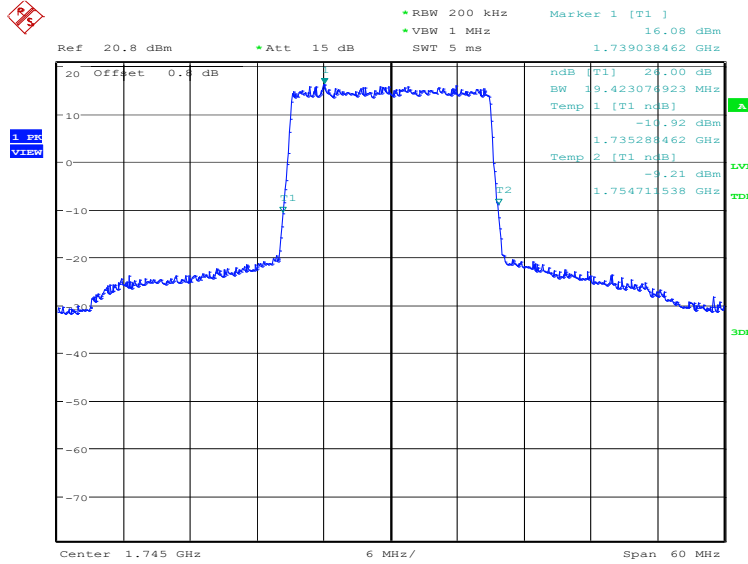


Date: 19.NOV.2020 17:27:00

### LTE band 66, 20MHz (-26dBc)

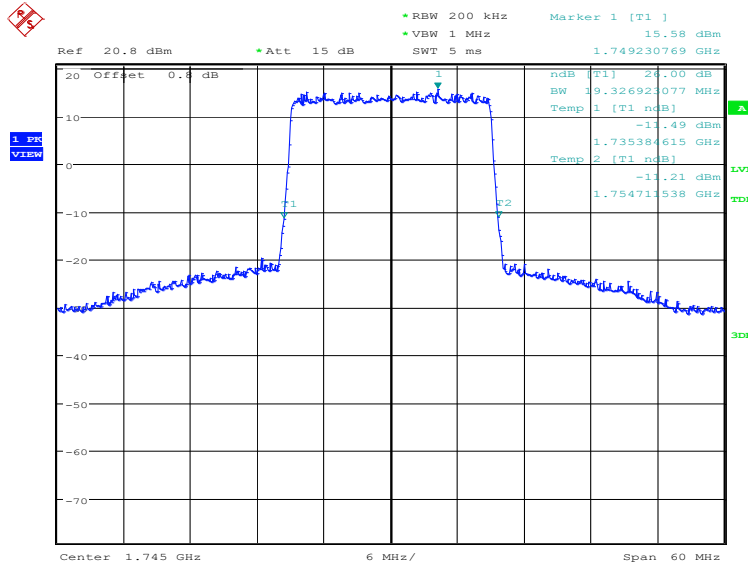
Frequency(MHz)	Occupied Bandwidth (-26dBc) (kHz)	
	1745.0	QPSK
	19423.08	19326.92

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



Date: 19.NOV.2020 17:27:41

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

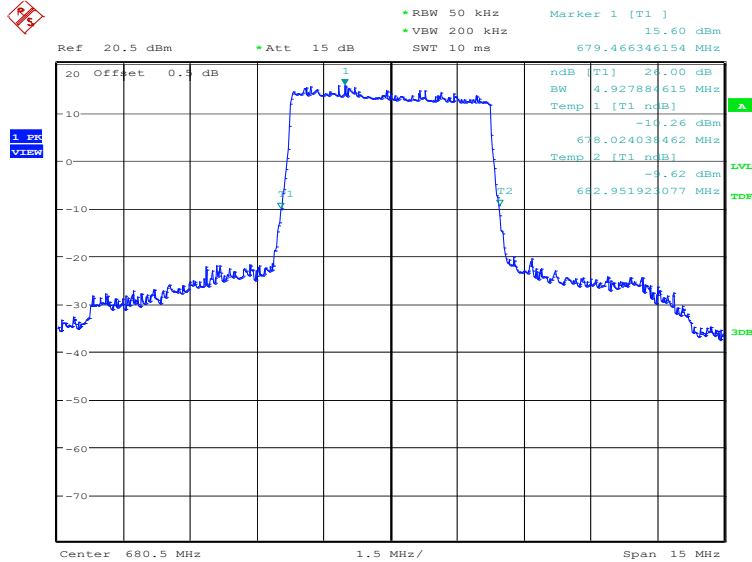


Date: 19.NOV.2020 17:28:21

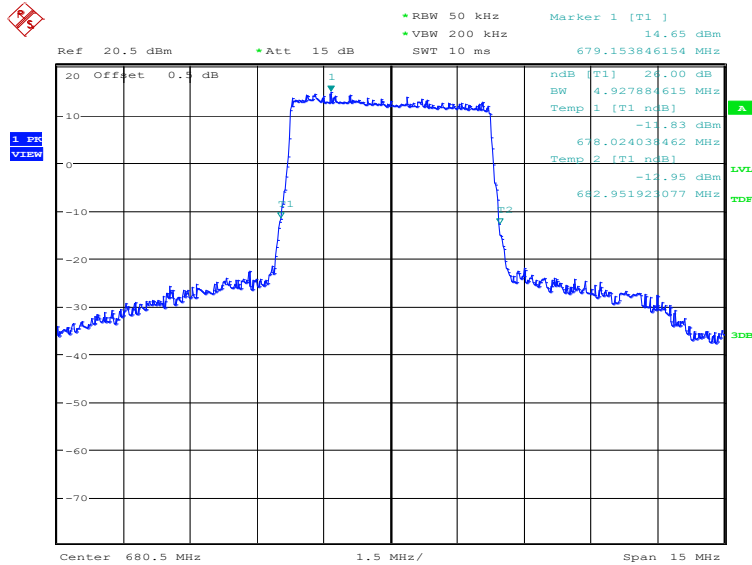
### LTE band 71, 5MHz (-26dBc)

Frequency(MHz)	Occupied Bandwidth (-26dBc) (kHz)	
	680.5	QPSK
4927.88		4927.88

### LTE band 71, 5MHz Bandwidth, QPSK (-26dBc BW)



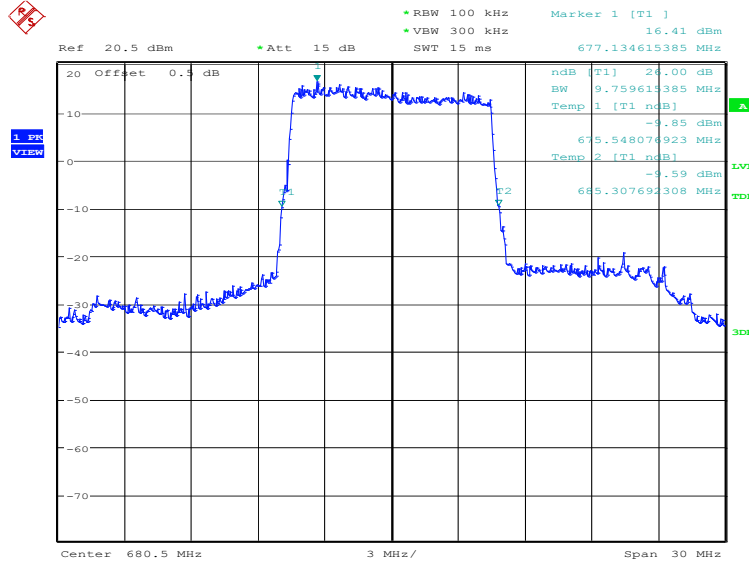
### LTE band 71, 5MHz Bandwidth, 16QAM (-26dBc BW)



### LTE band 71, 10MHz (-26dBc)

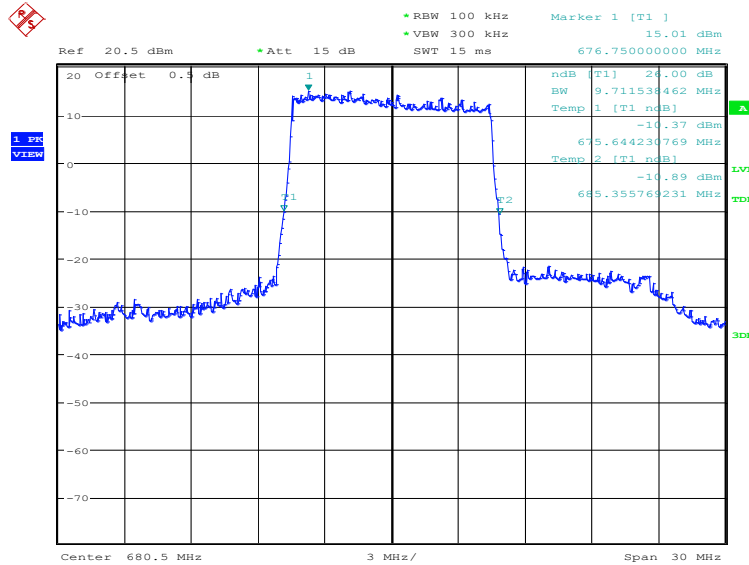
Frequency(MHz)	Occupied Bandwidth (-26dBc) (kHz)	
	680.5	QPSK
9759.62		9711.54

### LTE band 71, 10MHz Bandwidth, QPSK (-26dBc BW)



Date: 19.NOV.2020 16:40:11

### LTE band 71, 10MHz Bandwidth, 16QAM (-26dBc BW)

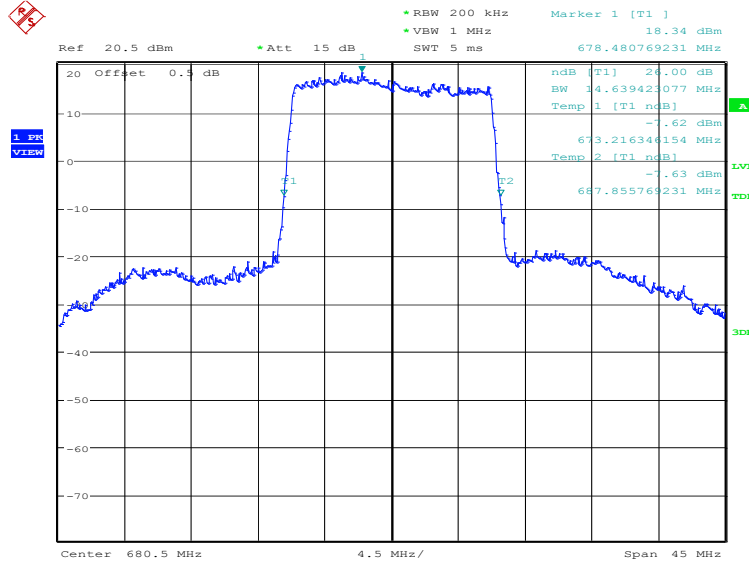


Date: 19.NOV.2020 16:40:50

### LTE band 71, 15MHz (-26dBc)

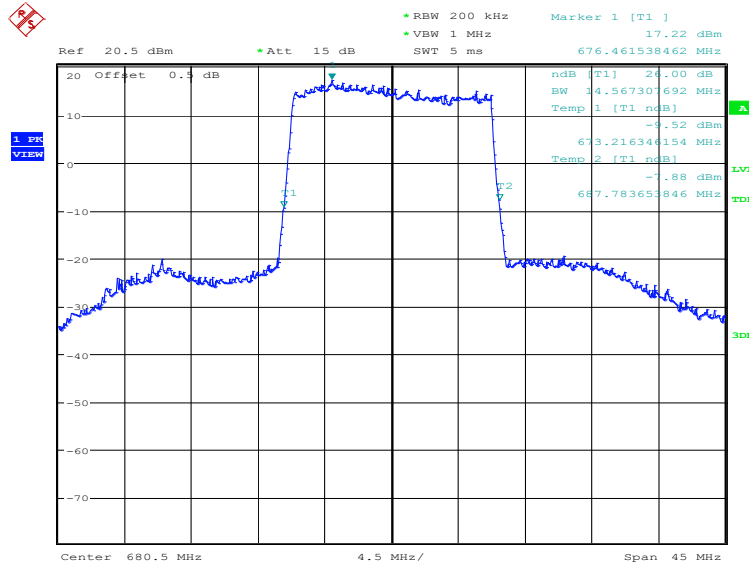
Frequency(MHz)	Occupied Bandwidth (-26dBc) (kHz)	
	680.5	QPSK
14639.42		14567.31

### LTE band 71, 15MHz Bandwidth, QPSK (-26dBc BW)



Date: 19.NOV.2020 16:41:32

### LTE band 71, 15MHz Bandwidth, 16QAM (-26dBc BW)

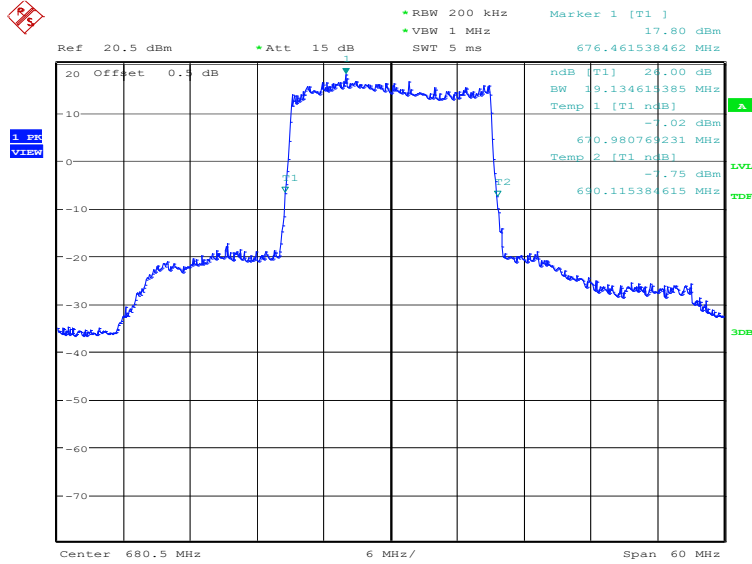


Date: 19.NOV.2020 16:42:11

### LTE band 71, 20MHz (-26dBc)

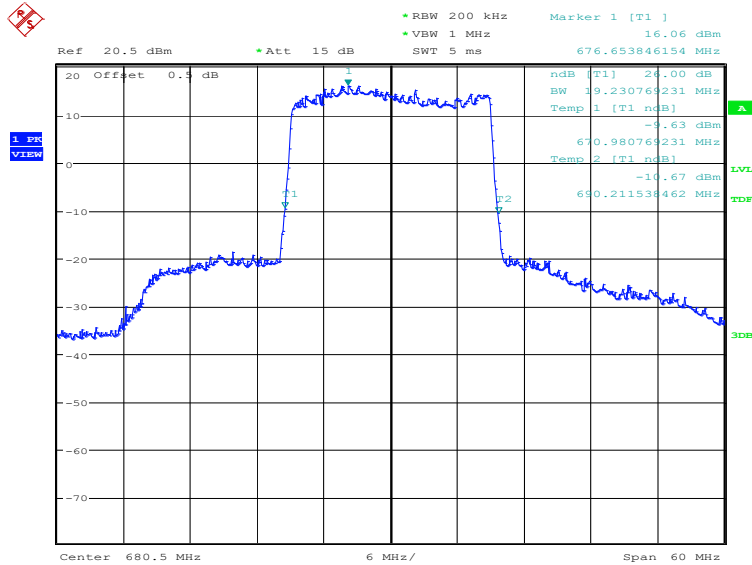
Frequency(MHz)	Occupied Bandwidth (-26dBc) (kHz)	
	680.5	QPSK
	19134.62	19230.77

### LTE band 71, 20MHz Bandwidth, QPSK (-26dBc BW)



Date: 19.NOV.2020 16:42:52

### LTE band 71, 20MHz Bandwidth, 16QAM (-26dBc BW)



Date: 19.NOV.2020 16:43:32



## **A.6 Band Edge Compliance**

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

Part 22.917, 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(c) states for operations in the 746-758 MHz band and the 776-788 MHz band, the power of any emission outside the 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, in accordance with the following:(1) On any frequency outside the 746-758 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;(2) 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;(4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than  $65 + 10 \log(P)$  dB in a 6.25 kHz band segment, for mobile and portable stations.

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.

Part 90.691 states that 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: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. 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



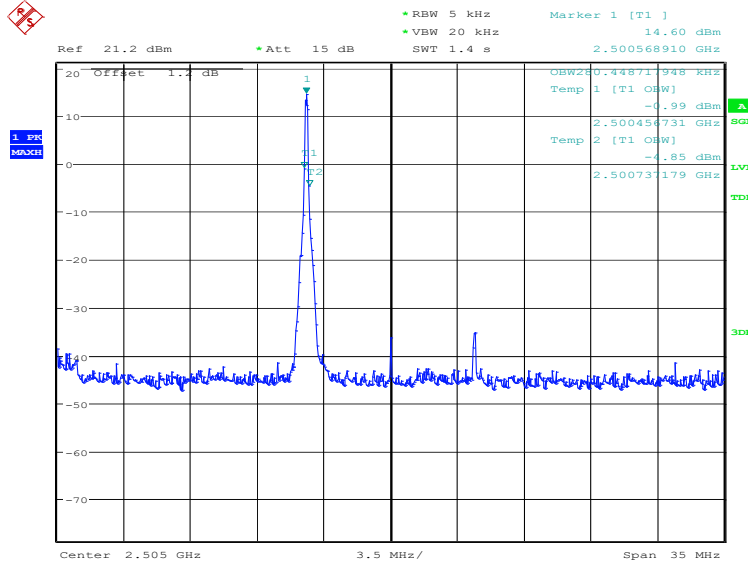
removed from the center of the outer channel in the block in kilohertz and where  $f$  is greater than 37.5 kHz.

### A.6.2 Measurement result

Only the worst case result is given below

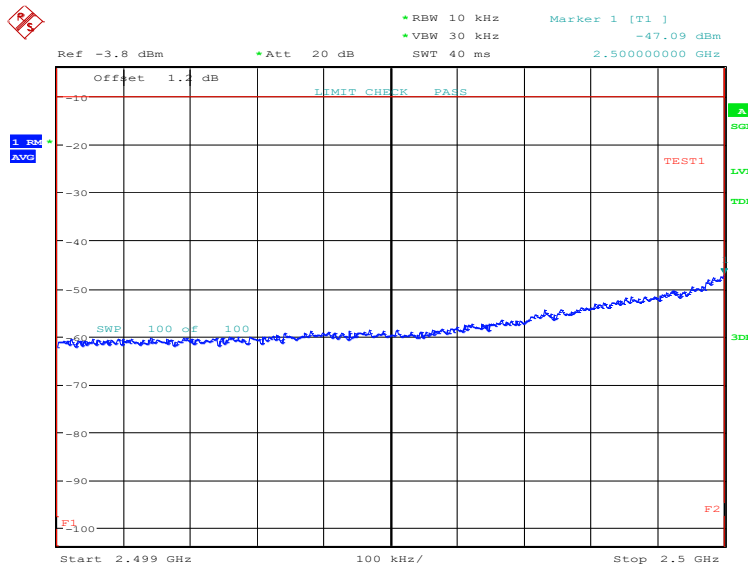
LTE band 7

OBW: 1RB-low\_offset

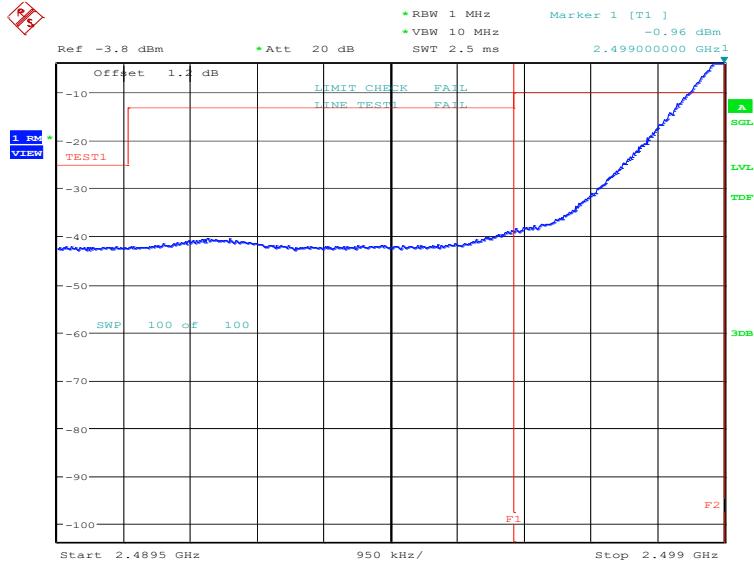


Date: 7.JAN.2021 12:48:42

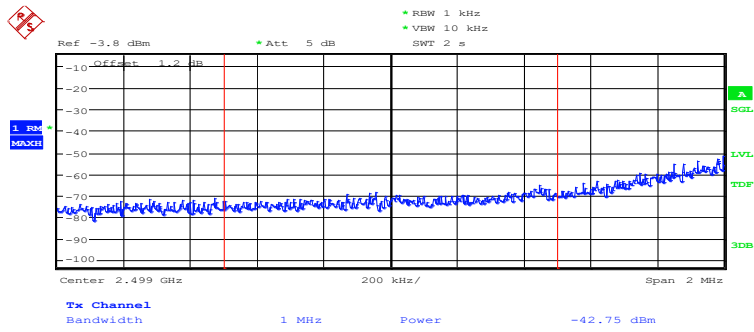
### LOW BAND EDGE BLOCK-1RB-low\_offset



Date: 7.JAN.2021 12:50:01

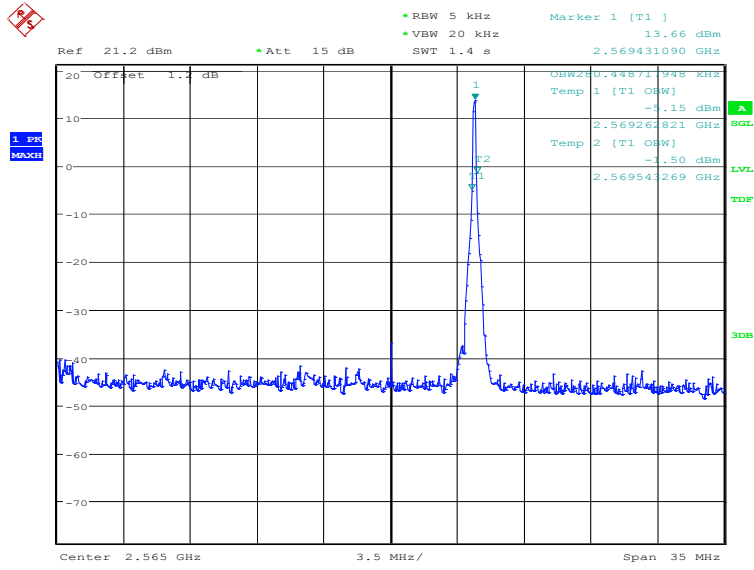


Date: 7.JAN.2021 12:50:23



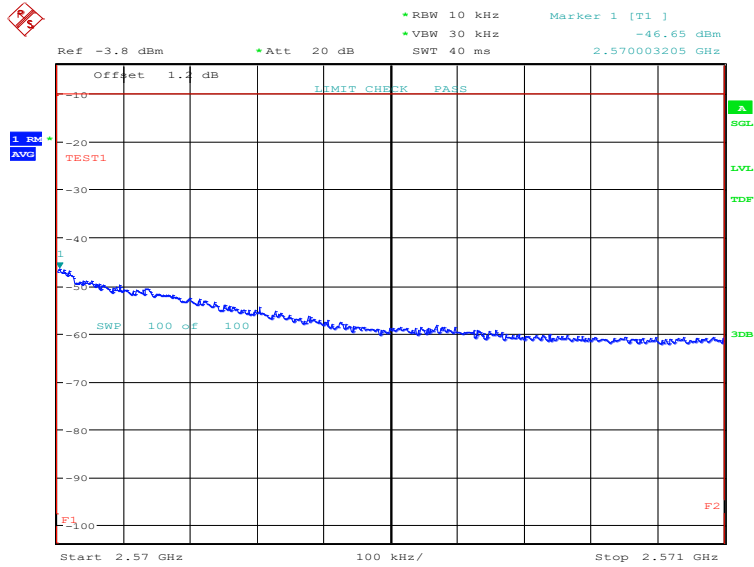
Date: 7.JAN.2021 12:50:34

**OBW: 1RB-high\_offset**

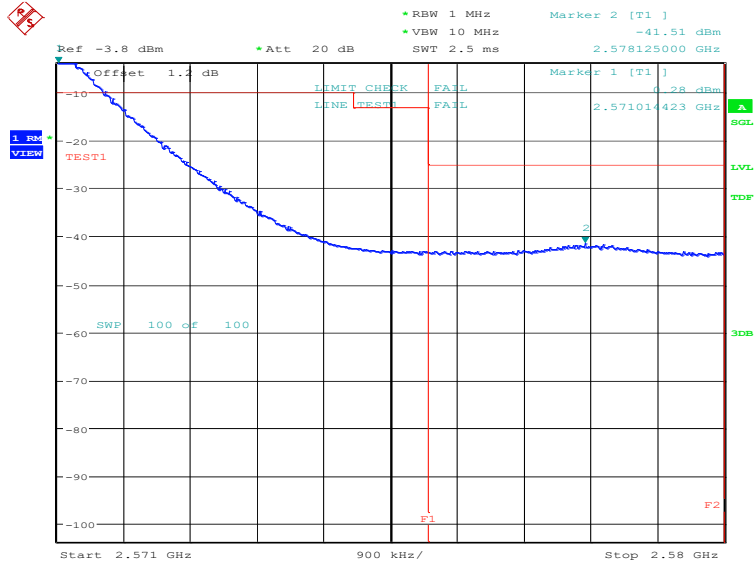


Date: 7.JAN.2021 12:51:08

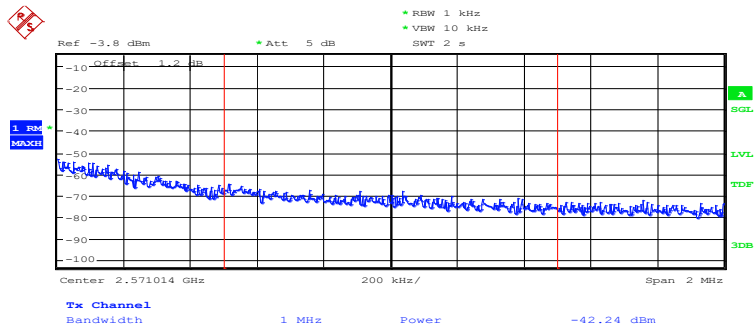
**HIGH BAND EDGE BLOCK-1RB-high\_offset**



Date: 7.JAN.2021 12:52:28

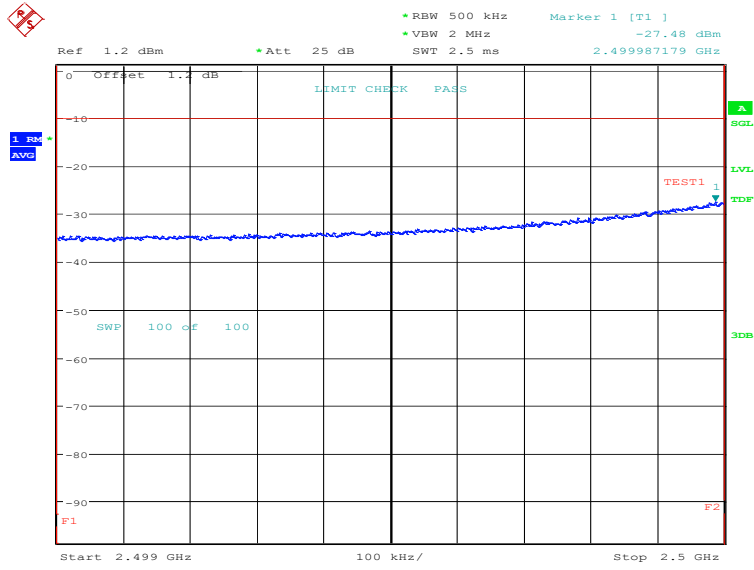


Date: 7.JAN.2021 12:52:50

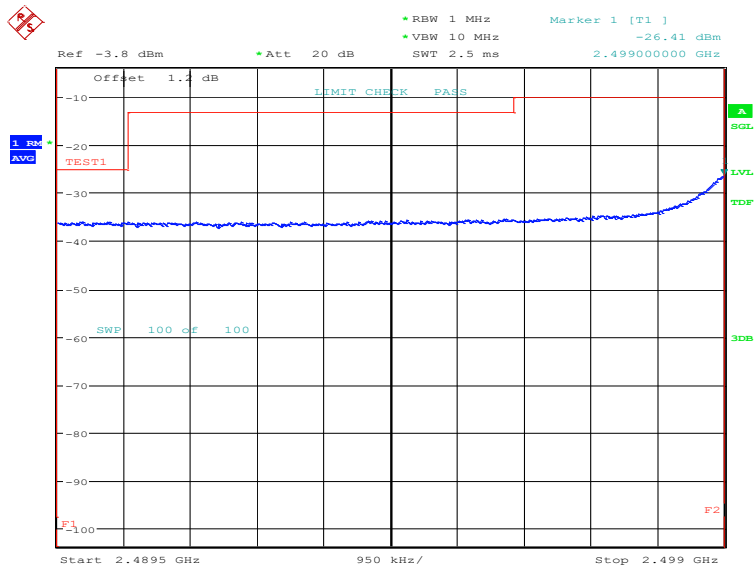


Date: 7.JAN.2021 12:53:01

### LOW BAND EDGE BLOCK-20MHz-100%RB

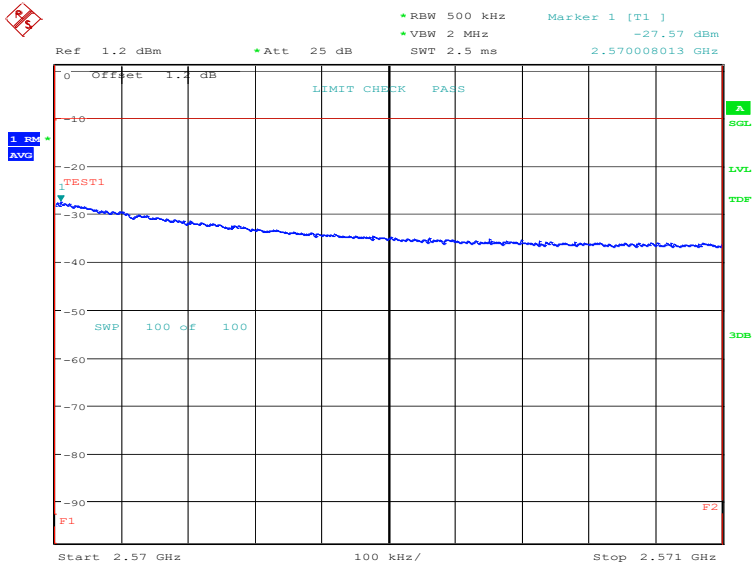


Date: 19.NOV.2020 17:39:08

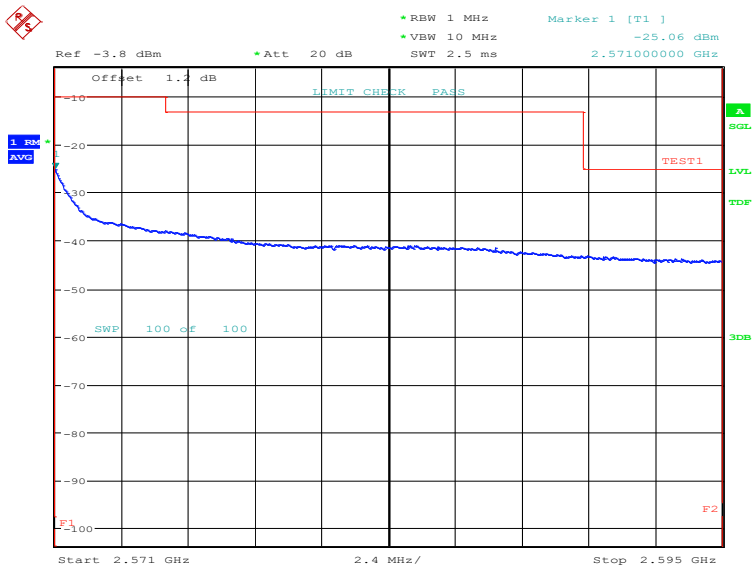


Date: 19.NOV.2020 17:39:22

### HIGH BAND EDGE BLOCK-20MHz-100%RB



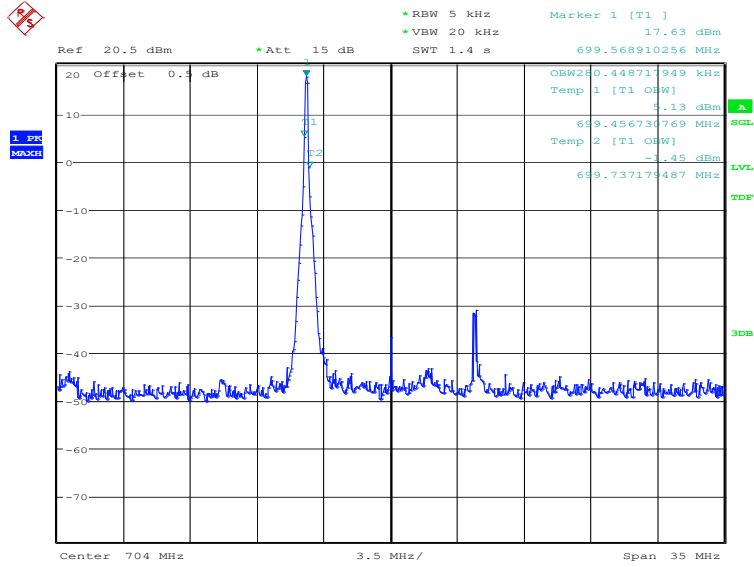
Date: 19.NOV.2020 17:40:49



Date: 19.NOV.2020 17:41:03

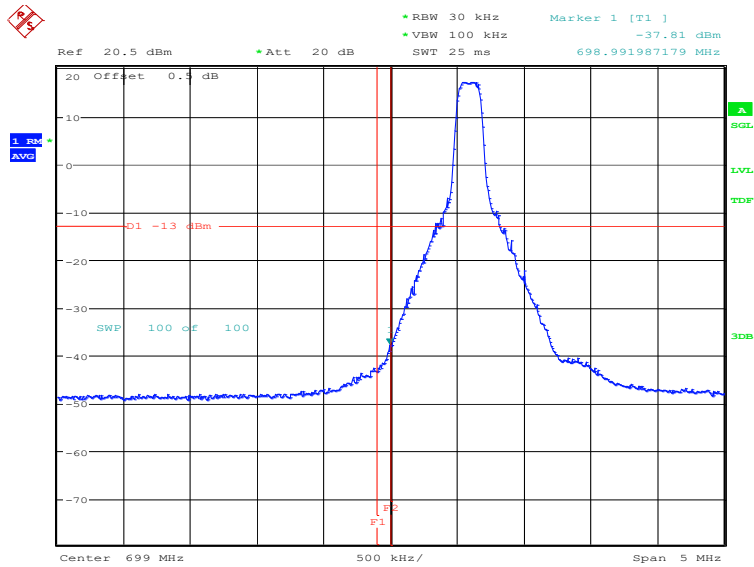


**LTE band 12**  
**OBW: 1RB-low\_offset**



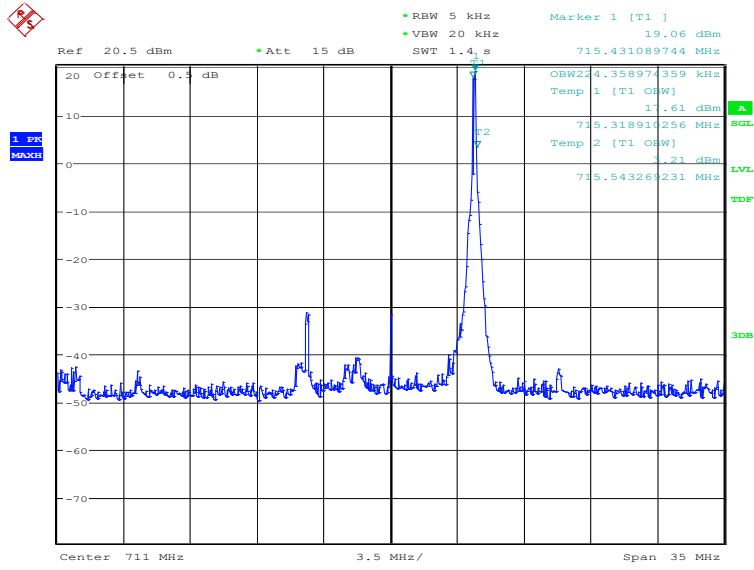
Date: 7.JAN.2021 12:53:36

**LOW BAND EDGE BLOCK-1RB-low\_offset**



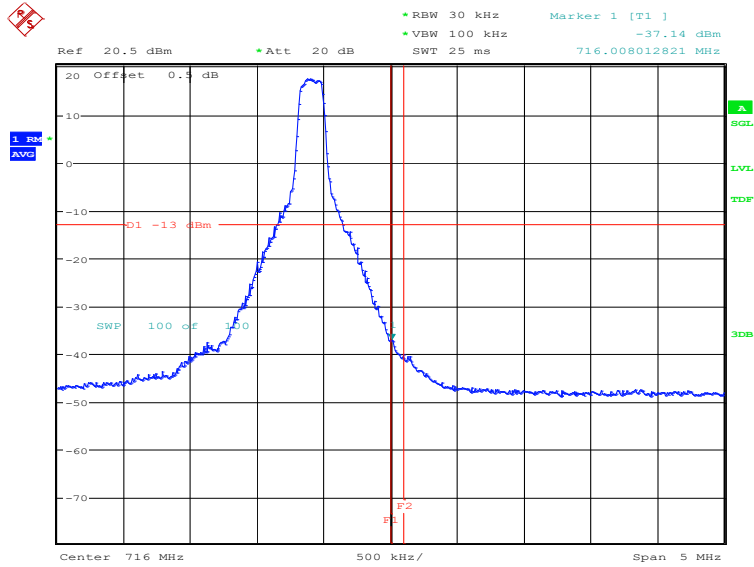
Date: 7.JAN.2021 12:53:49

### OBW: 1RB-high\_offset



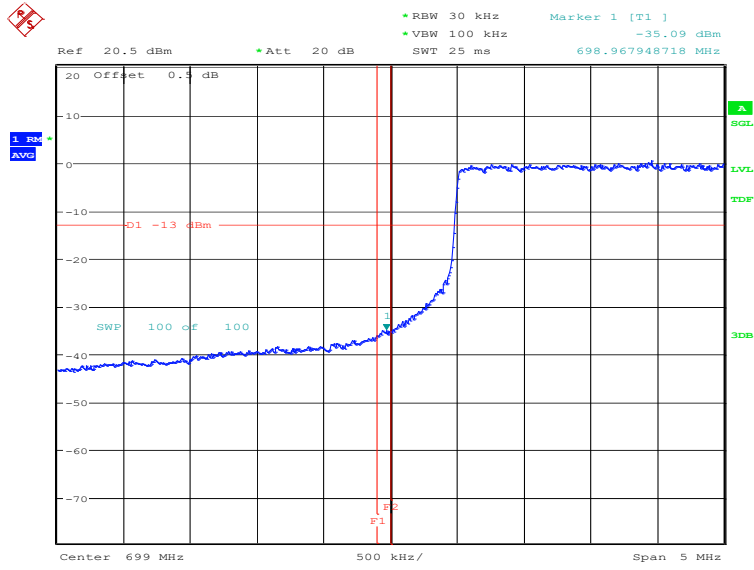
Date: 7.JAN.2021 12:54:23

### HIGH BAND EDGE BLOCK-1RB-high\_offset



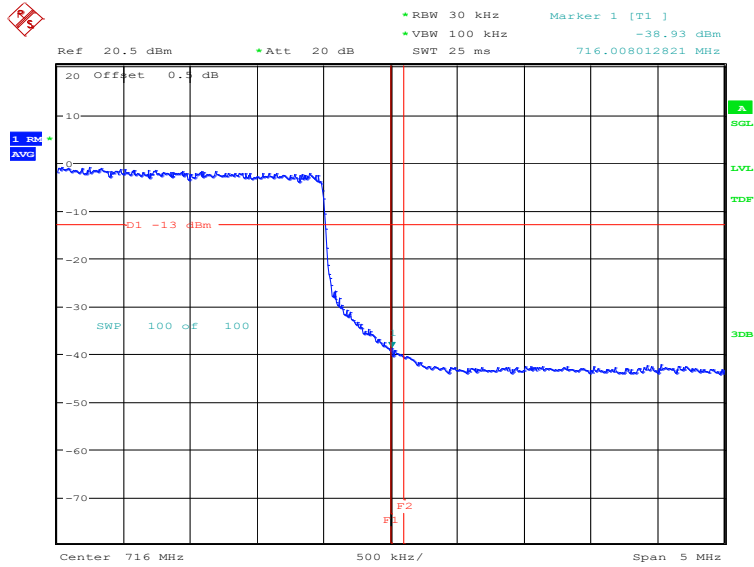
Date: 7.JAN.2021 12:54:36

### LOW BAND EDGE BLOCK-10MHz-100%RB



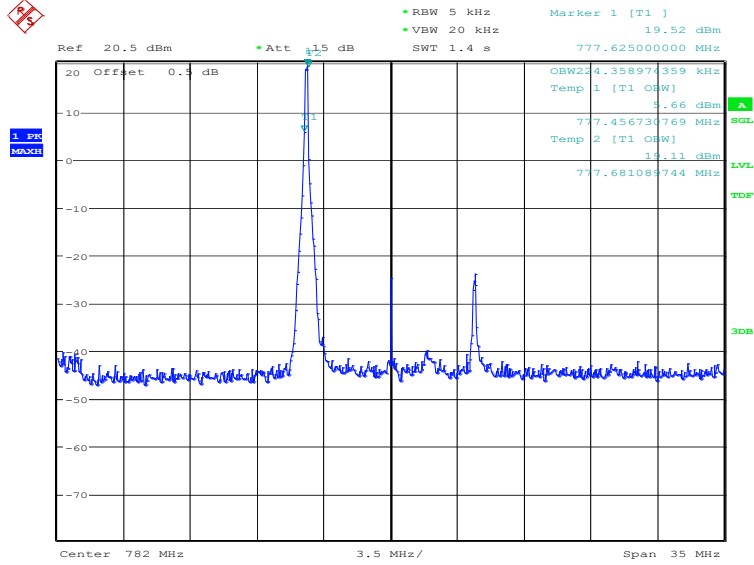
Date: 19.NOV.2020 17:43:16

### HIGH BAND EDGE BLOCK-10MHz-100%RB



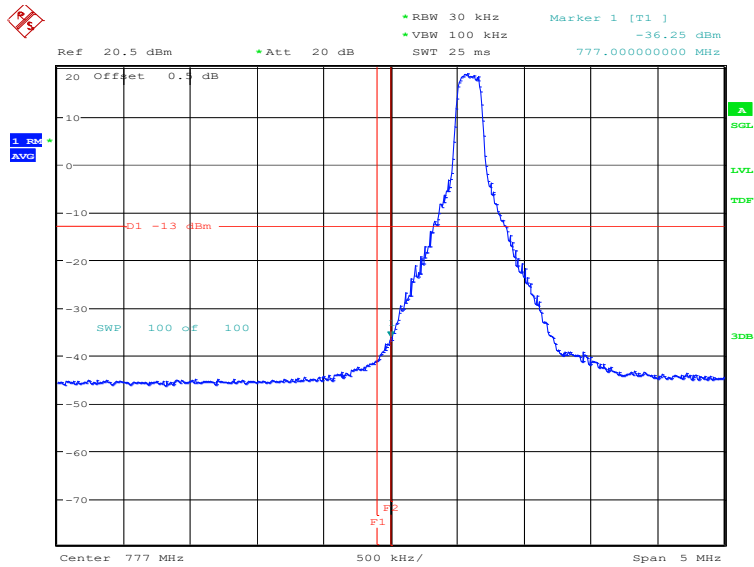
Date: 19.NOV.2020 17:44:37

**LTE band 13**  
**OBW: 1RB-low\_offset**



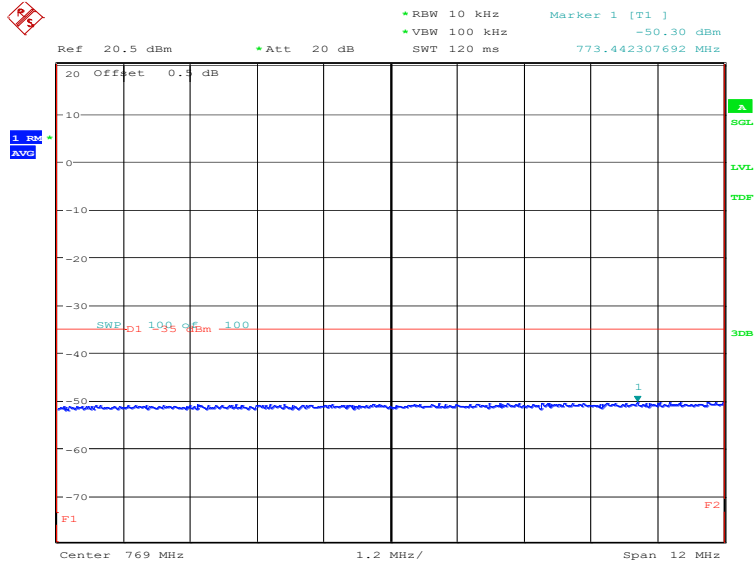
Date: 7. JAN. 2021 12:38:36

**LOW BAND EDGE BLOCK-1RB-low\_offset**



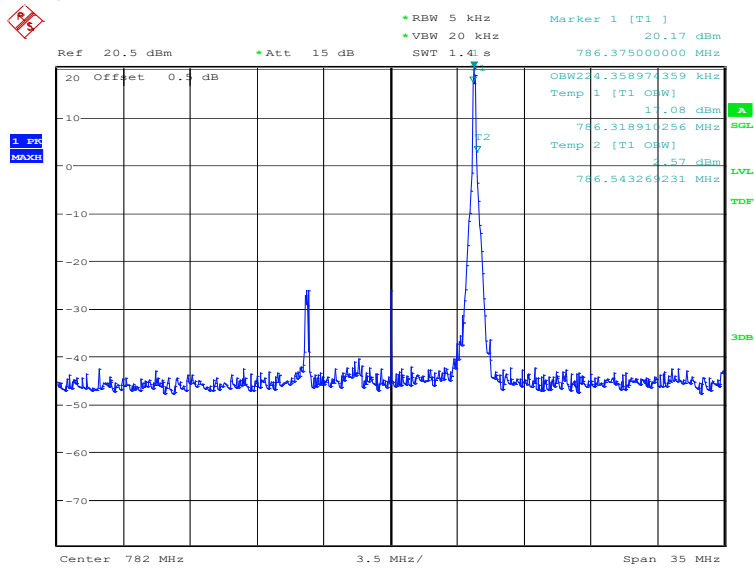
Date: 7. JAN. 2021 12:38:49

II



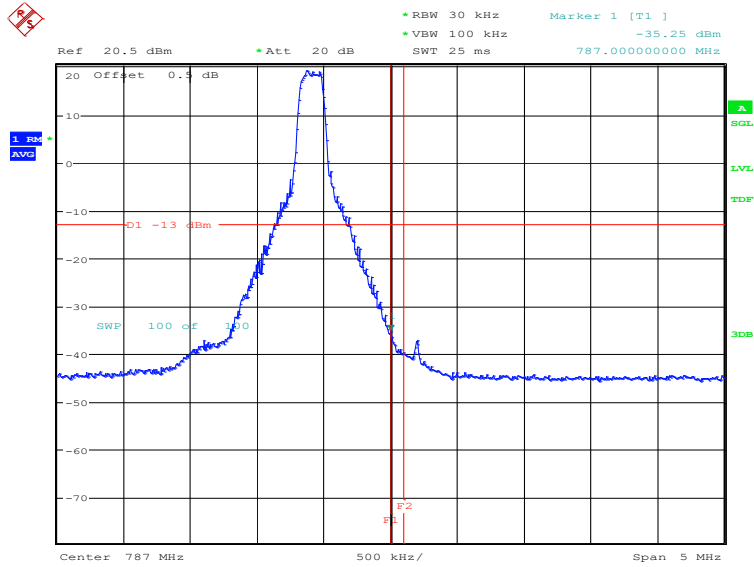
Date: 7.JAN.2021 12:39:32

### OBW: 1RB-high\_offset

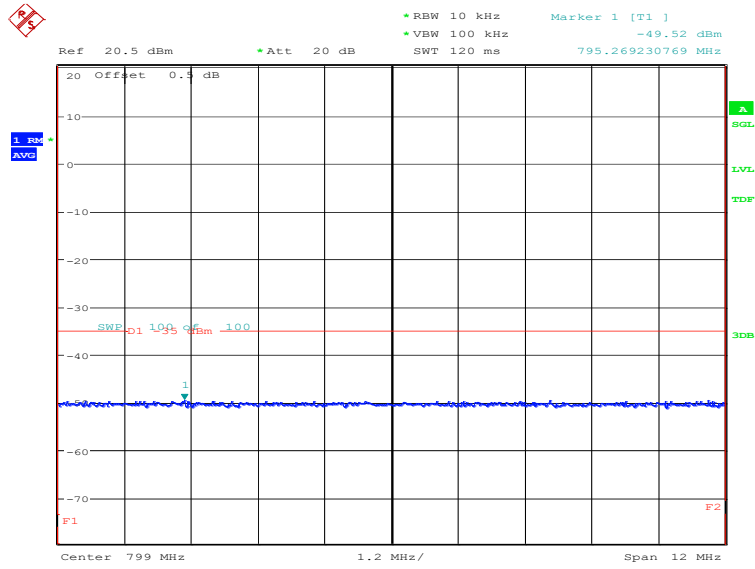


Date: 7.JAN.2021 12:40:06

### HIGH BAND EDGE BLOCK-1RB-high\_offset

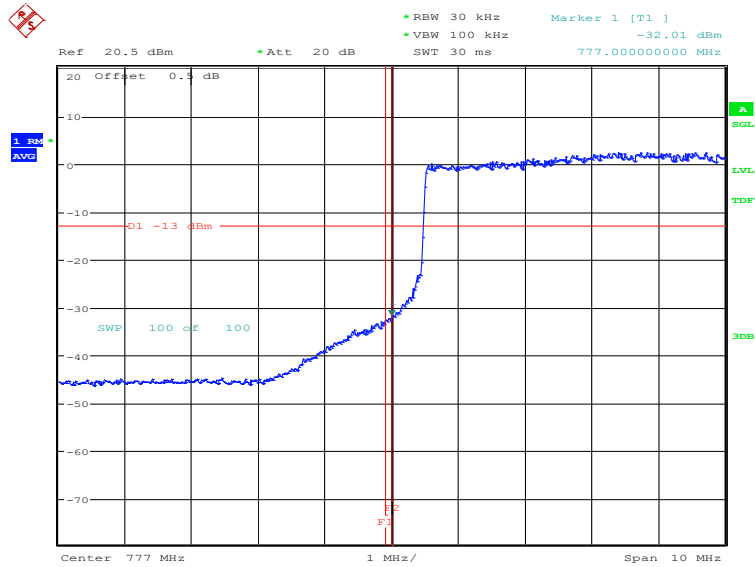


Date: 7.JAN.2021 12:40:20

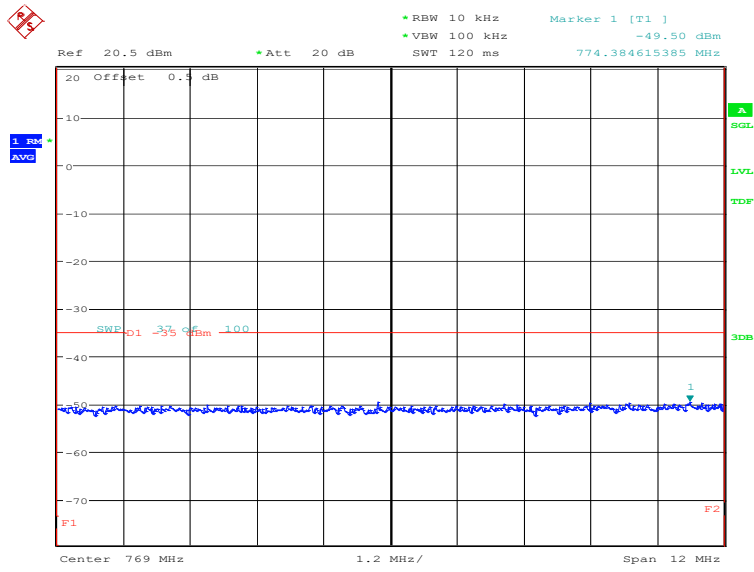


Date: 7.JAN.2021 12:40:53

**LOW BAND EDGE BLOCK-10MHz-100%RB**

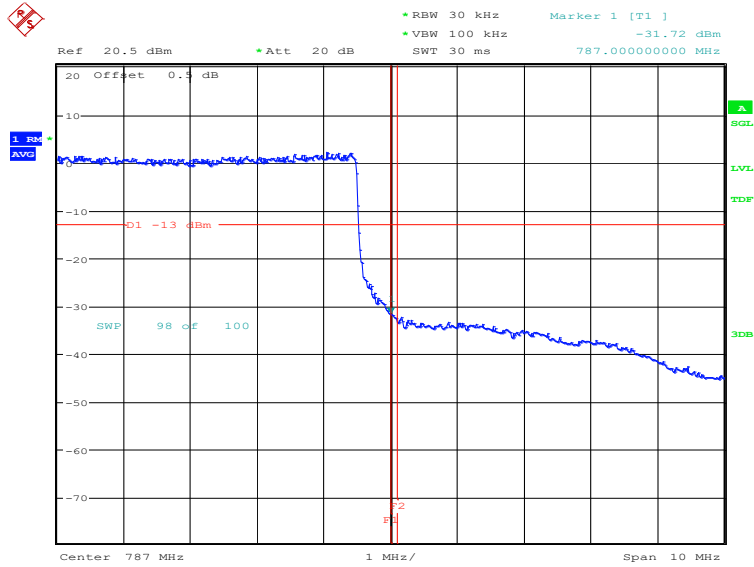


Date: 19.NOV.2020 17:45:59



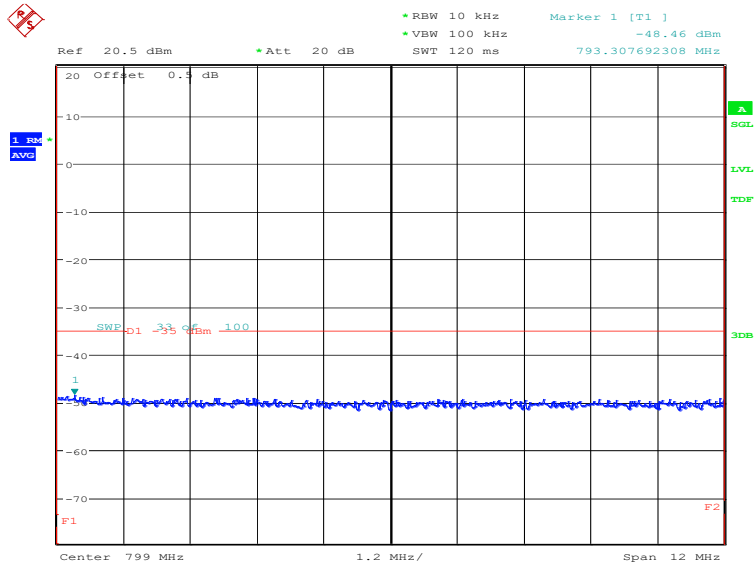
Date: 19.NOV.2020 17:46:12

### HIGH BAND EDGE BLOCK-10MHz-100%RB



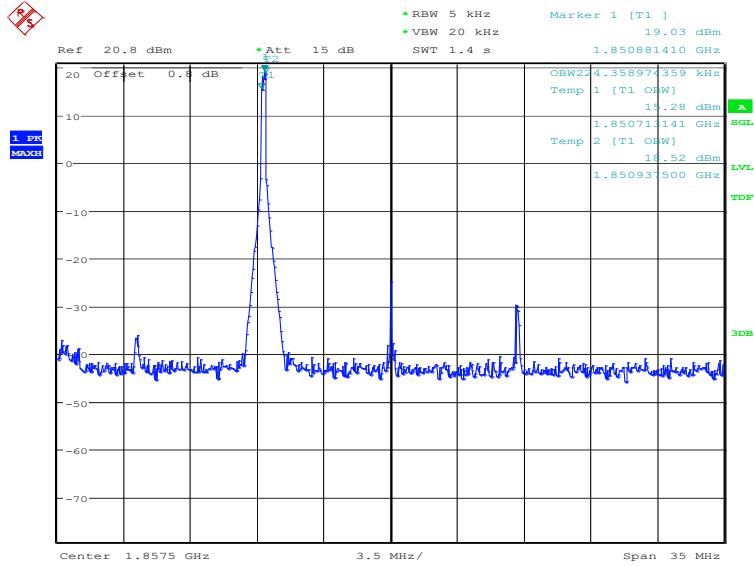
Date: 19.NOV.2020 17:47:33





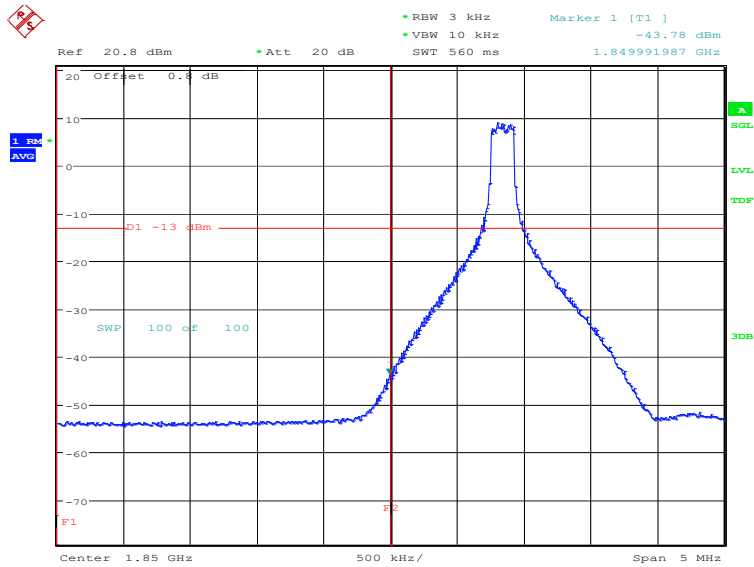
Date: 19.NOV.2020 17:47:46

**LTE band 25**  
**OBW: 1RB-low\_offset**



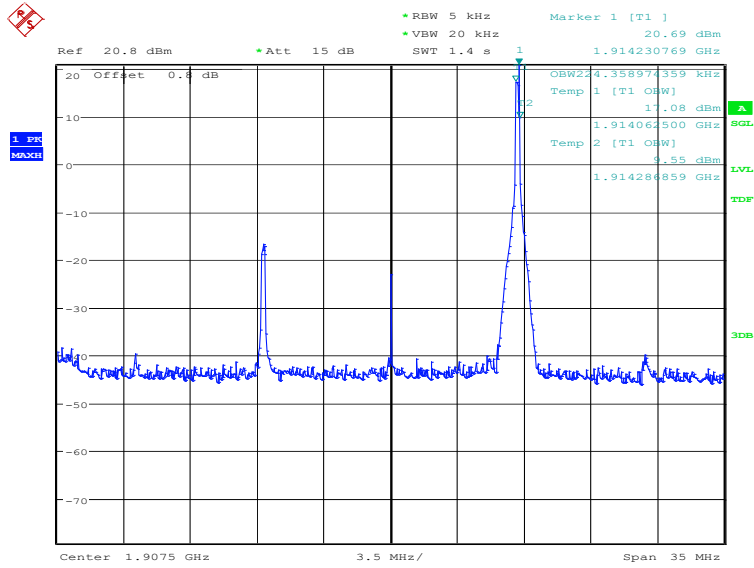
Date: 7.JAN.2021 12:55:48

**LOW BAND EDGE BLOCK-1RB-low\_offset**



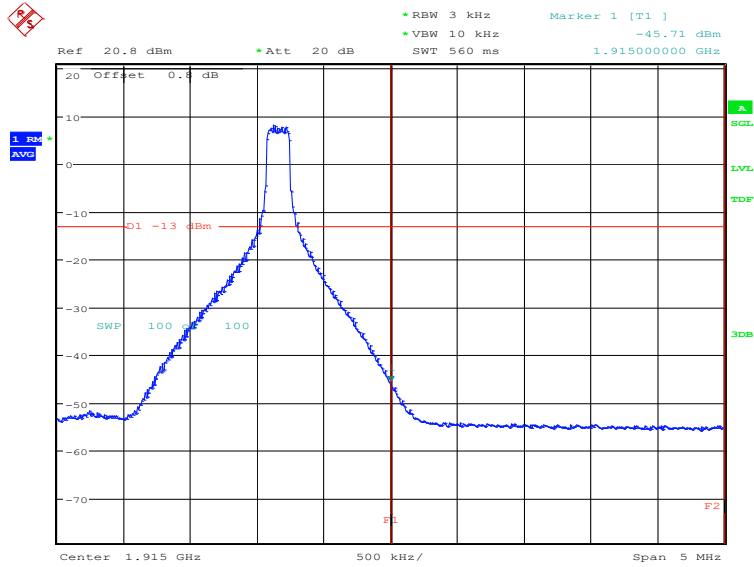
Date: 7.JAN.2021 12:57:01

### OBW: 1RB-high\_offset



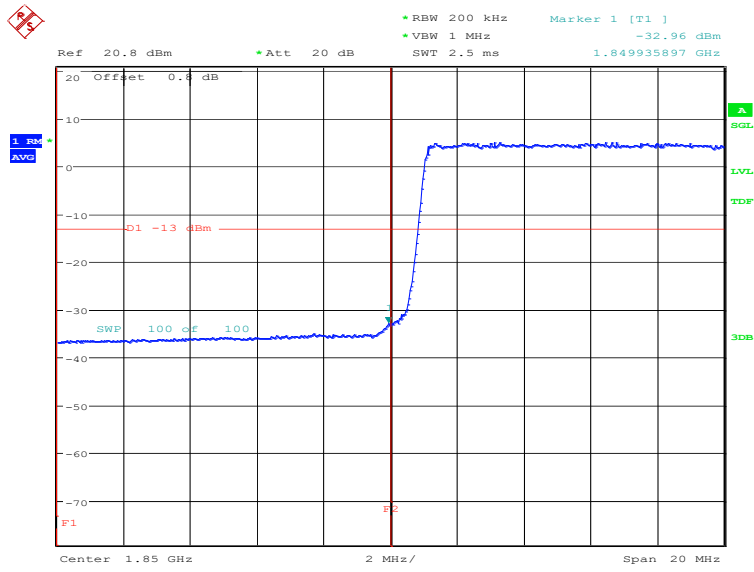
Date: 7.JAN.2021 12:57:35

### HIGH BAND EDGE BLOCK-1RB-high\_offset



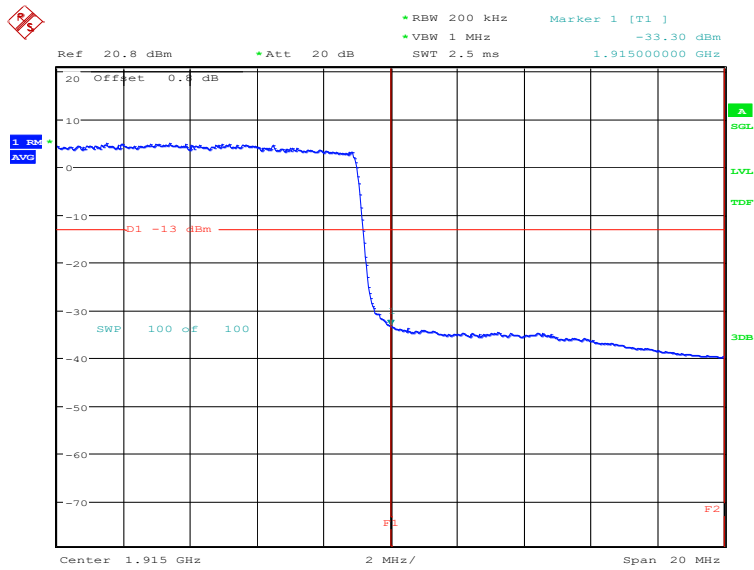
Date: 7.JAN.2021 12:58:48

### LOW BAND EDGE BLOCK-20MHz-100%RB



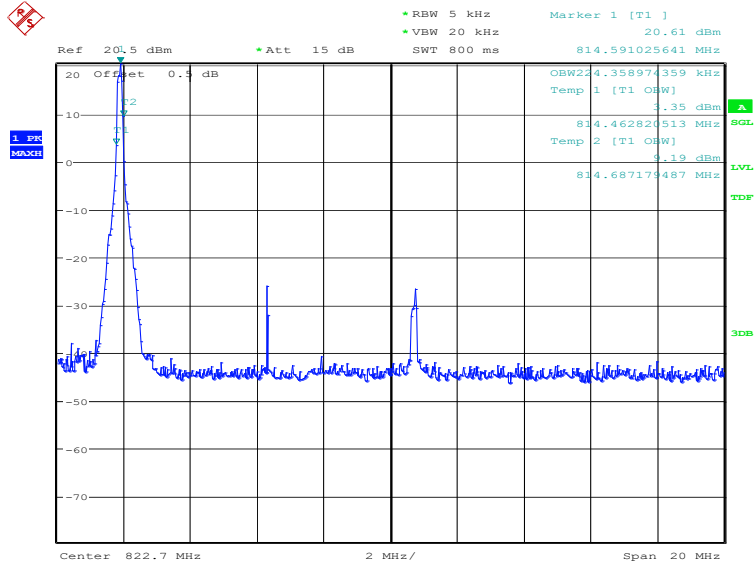
Date: 19.NOV.2020 17:49:10

### HIGH BAND EDGE BLOCK-20MHz-100%RB



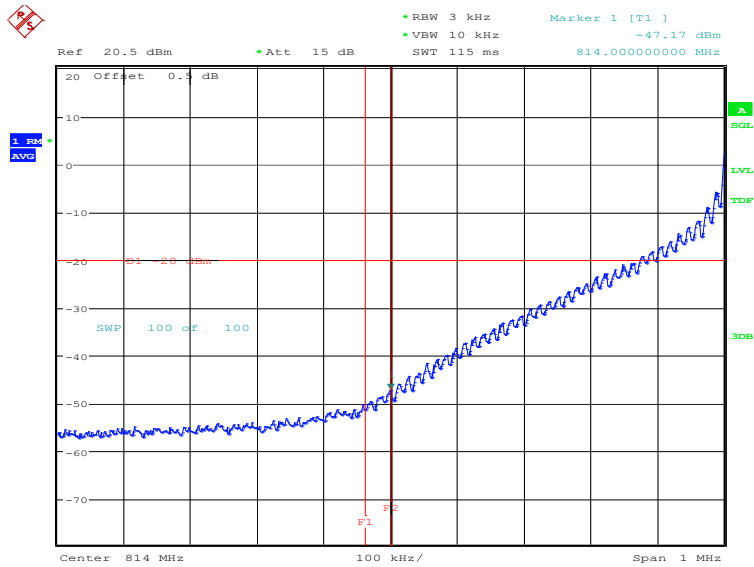
Date: 19.NOV.2020 17:50:32

**LTE band 26(814MHz~824MHz)**  
**OBW: 1RB-low\_offset**



Date: 7. JAN. 2021 13:25:31

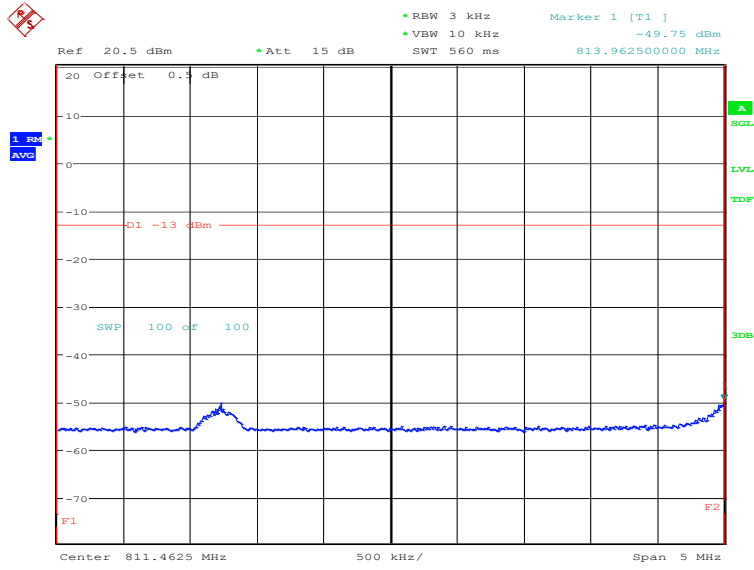
**LOW BAND EDGE BLOCK-1RB-low\_offset**



Date: 7. JAN. 2021 13:27:02

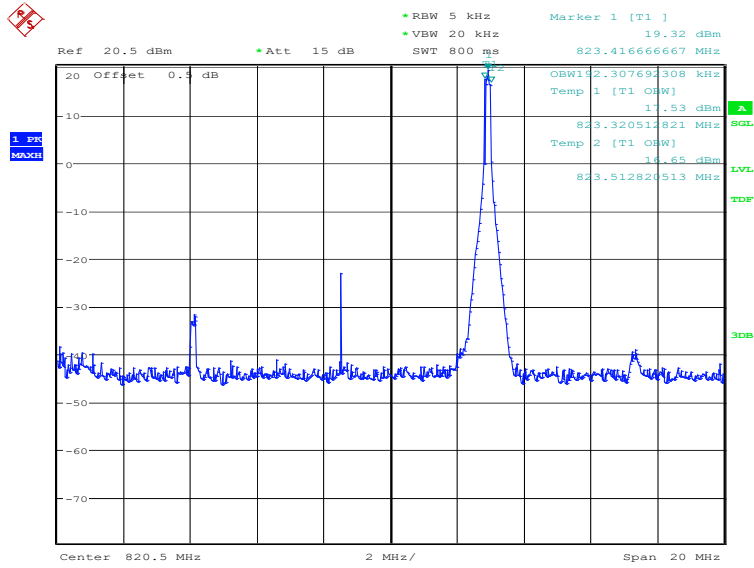


### LOW Emission Mask -1RB-low\_offset



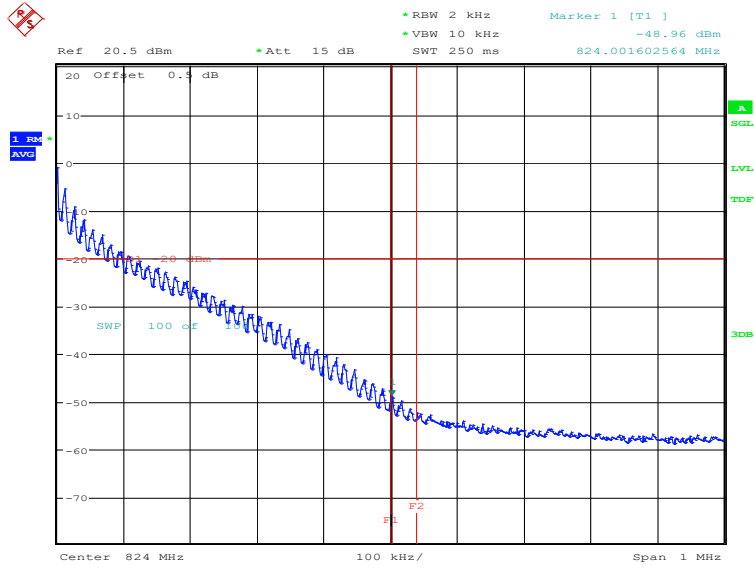
Date: 7.JAN.2021 13:29:19

### OBW: 1RB-high\_offset



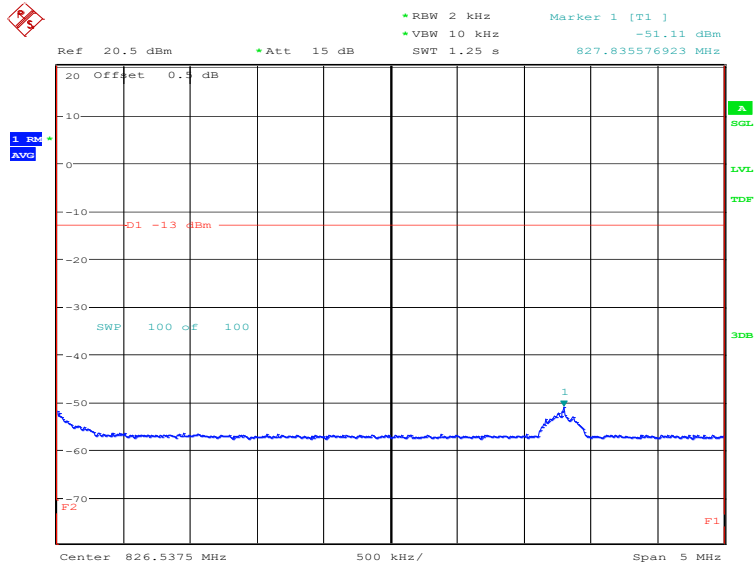
Date: 7.JAN.2021 13:29:53

### HIGH BAND EDGE BLOCK-1RB-high\_offset



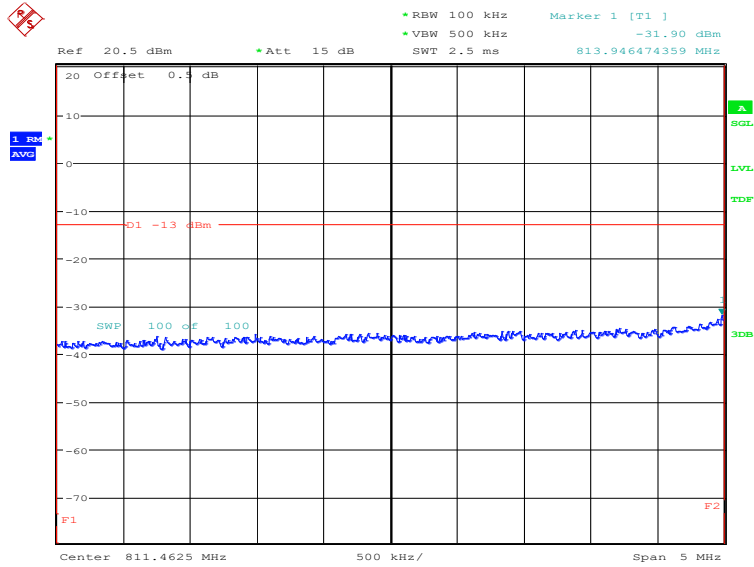
Date: 7.JAN.2021 13:31:37

### HIGH Emission Mask -1RB-high\_offset



Date: 7.JAN.2021 13:35:02

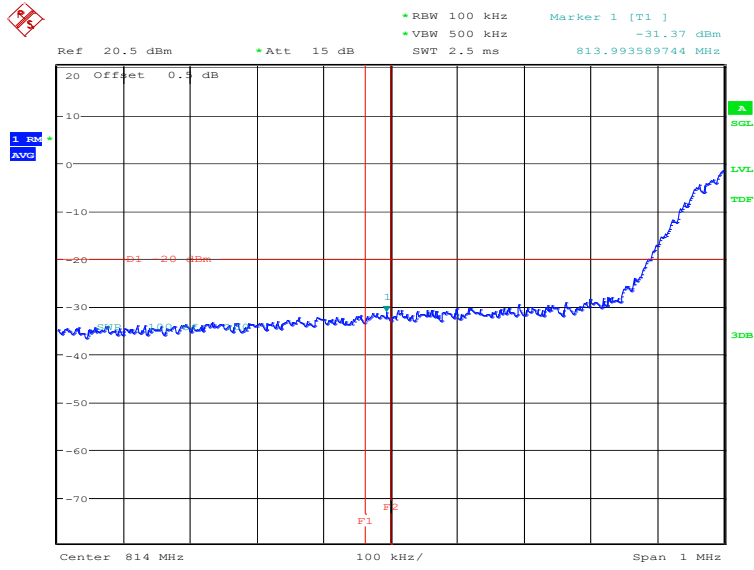
### LOW Emission Mask -10MHz-100%RB



Date: 19.NOV.2020 19:23:28

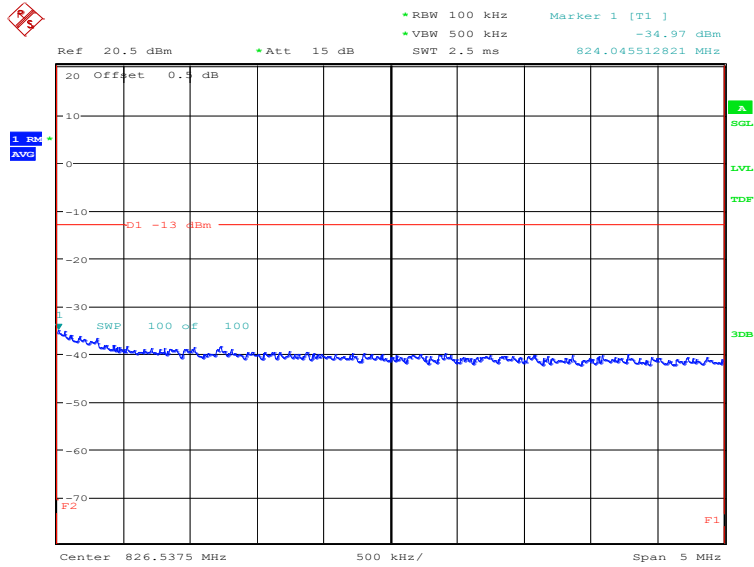


### LOW BAND EDGE BLOCK-10MHz-100%RB



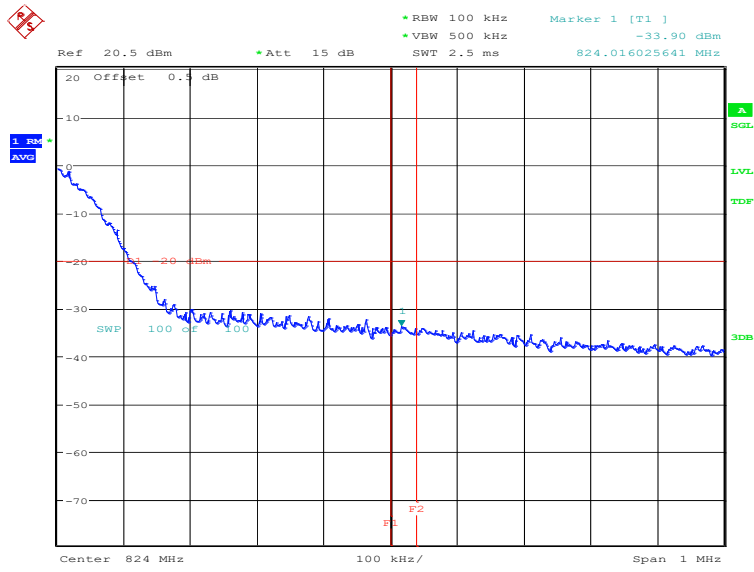
Date: 19.NOV.2020 19:23:07

### HIGH Emission Mask -10MHz-100%RB



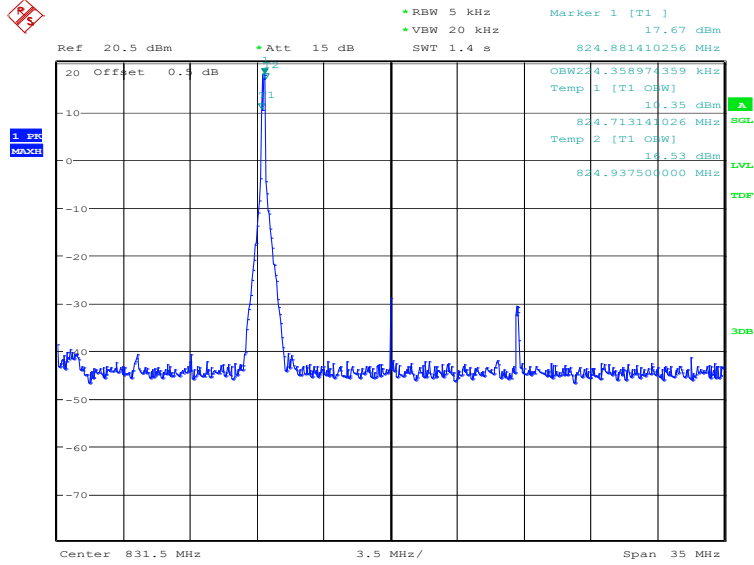
Date: 19.NOV.2020 19:25:17

### HIGH BAND EDGE BLOCK-10MHz-100%RB



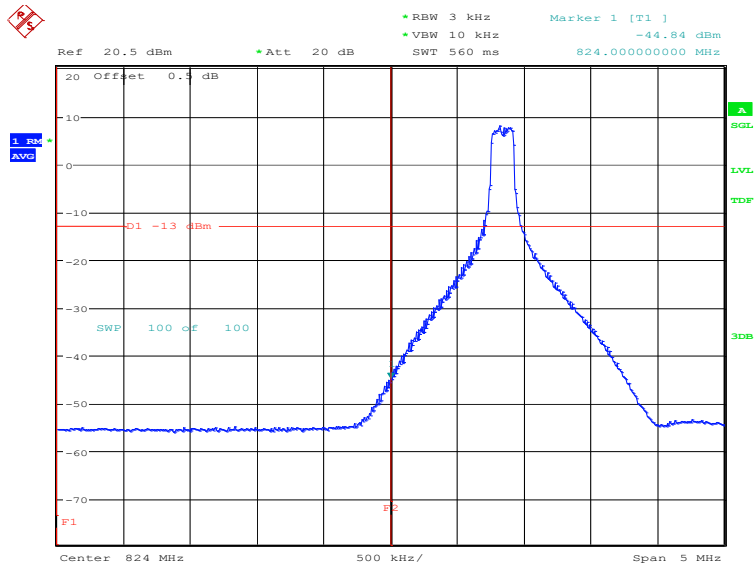
Date: 19.NOV.2020 19:24:57

**LTE band 26(824MHz~849MHz)**  
**OBW: 1RB-low\_offset**



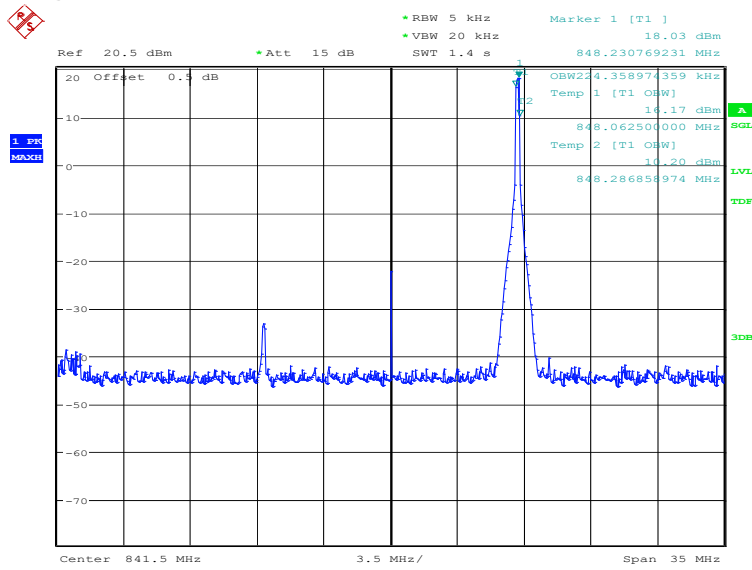
Date: 7.JAN.2021 12:59:24

**LOW BAND EDGE BLOCK-1RB-low\_offset**



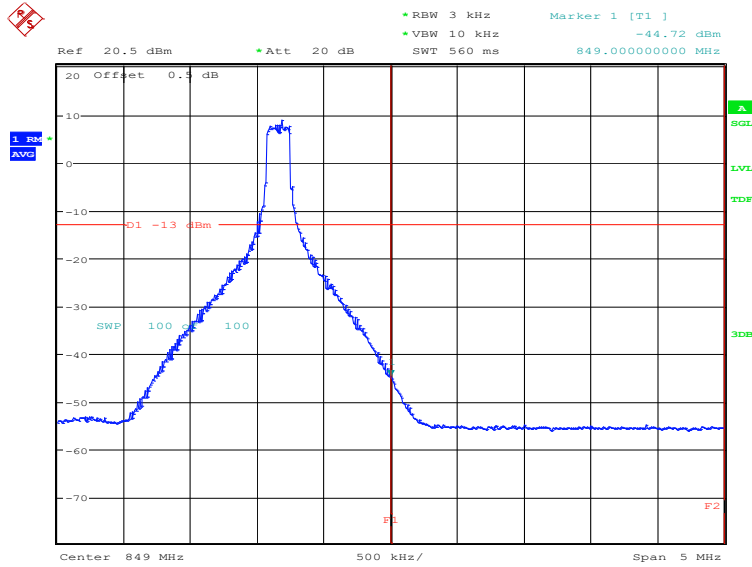
Date: 7.JAN.2021 13:00:37

### OBW: 1RB-high\_offset



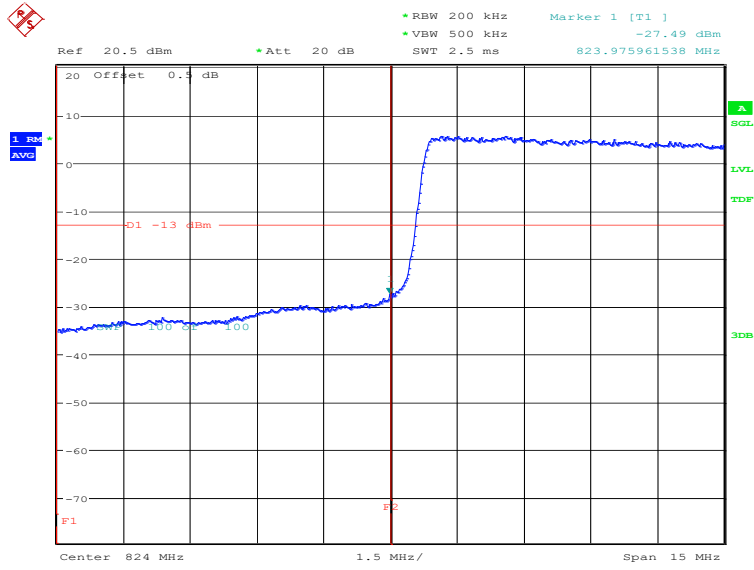
Date: 7.JAN.2021 13:01:11

### HIGH BAND EDGE BLOCK-1RB-high\_offset



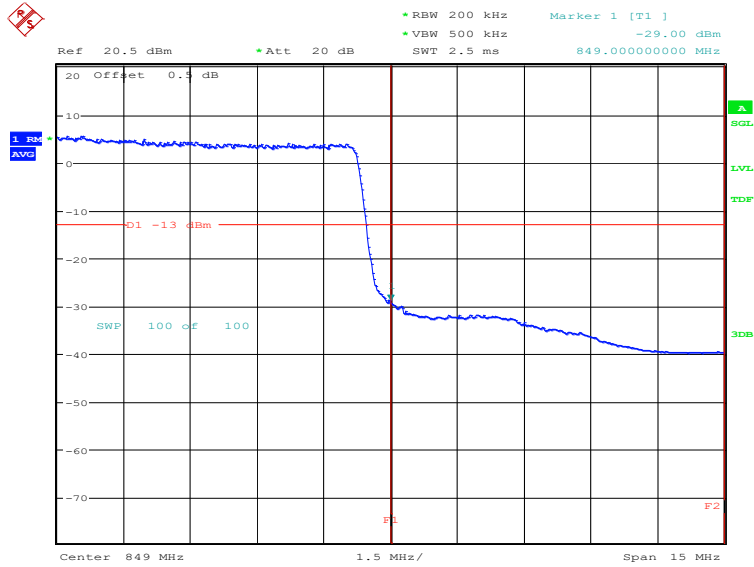
Date: 7.JAN.2021 13:02:24

### LOW BAND EDGE BLOCK-15MHz-100%RB



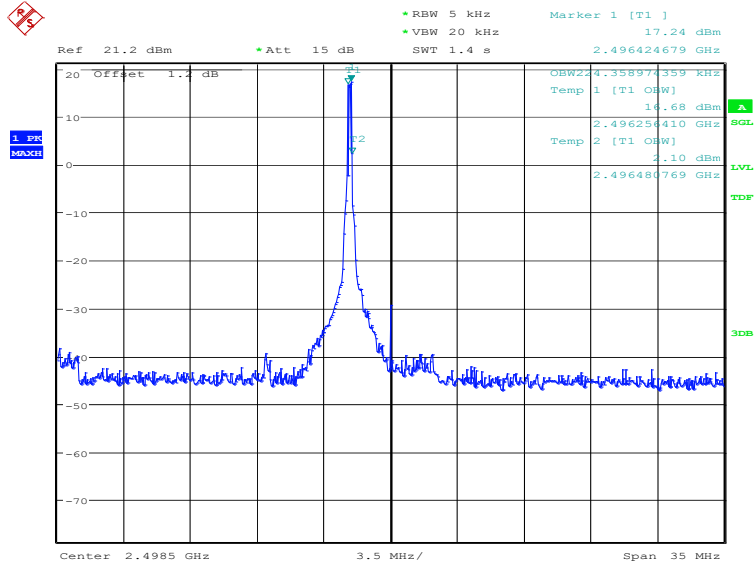
Date: 19.NOV.2020 17:52:42

### HIGH BAND EDGE BLOCK-15MHz-100%RB



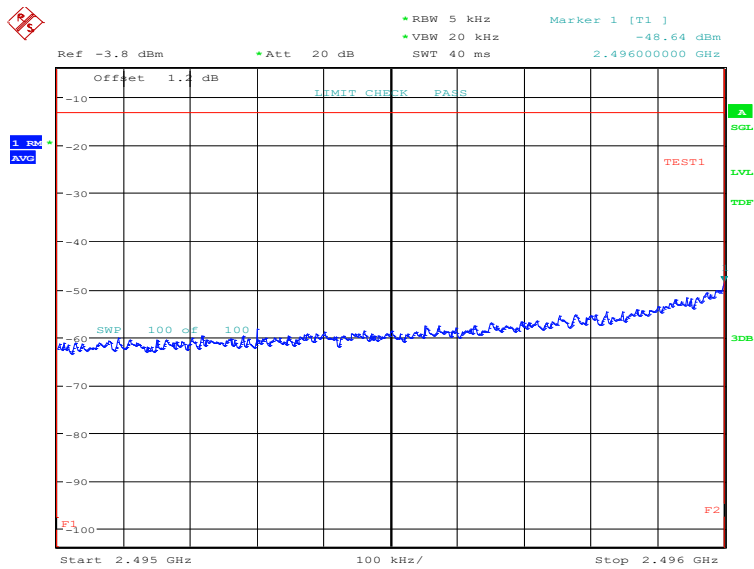
Date: 19.NOV.2020 17:54:03

**LTE band 41**  
**OBW: 1RB-low\_offset**



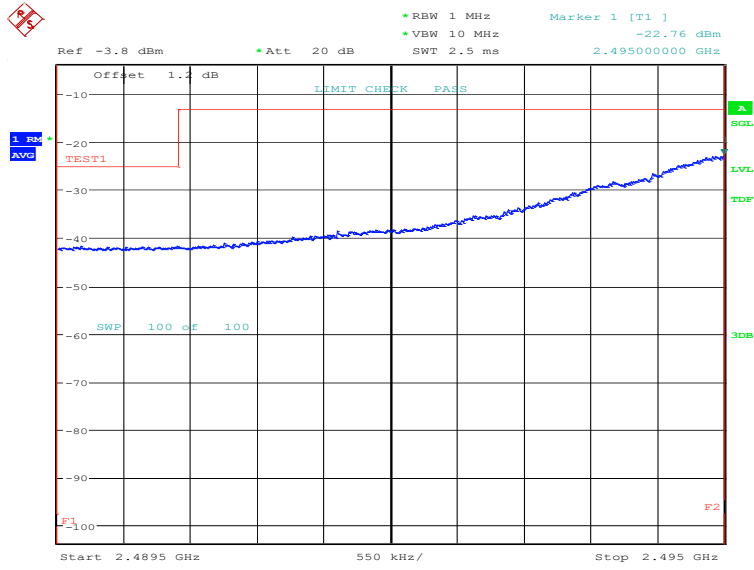
Date: 7. JAN. 2021 13:09:45

**LOW BAND EDGE BLOCK-1RB-low\_offset**



Date: 7. JAN. 2021 13:11:06

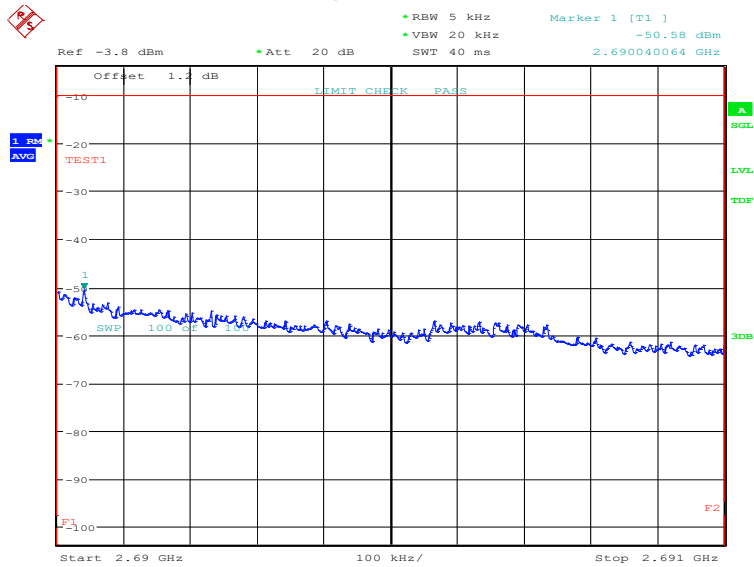
### OBW: 1RB-high\_offset



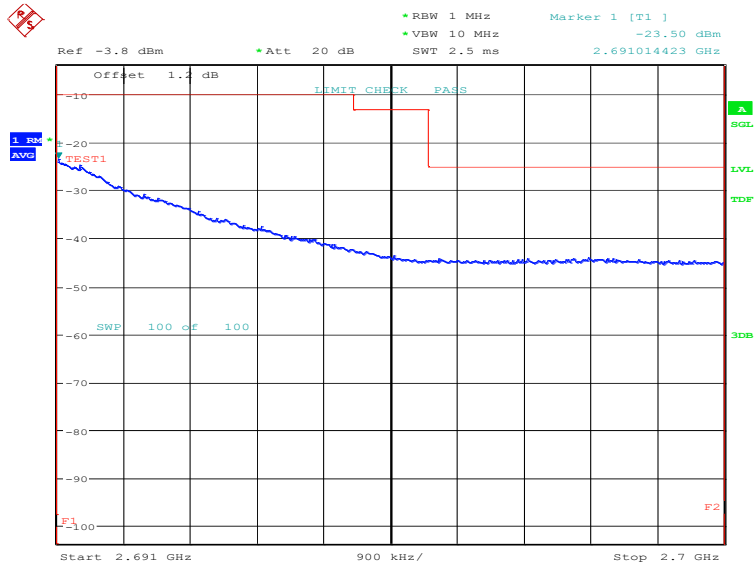
Date: 7.JAN.2021 13:11:21

Date: 7.JAN.2021 13:11:57

### HIGH BAND EDGE BLOCK-1RB-high\_offset

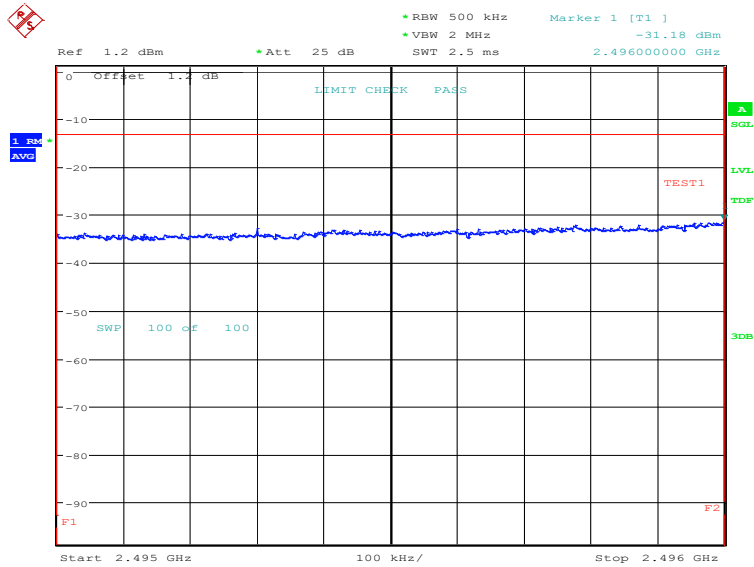


Date: 7.JAN.2021 13:13:17



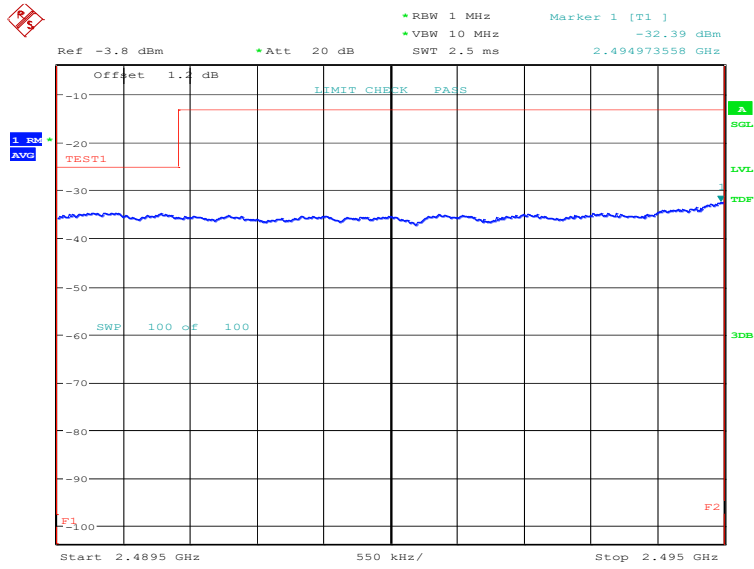
Date: 7.JAN.2021 13:13:31

**LOW BAND EDGE BLOCK-20MHz-100%RB**



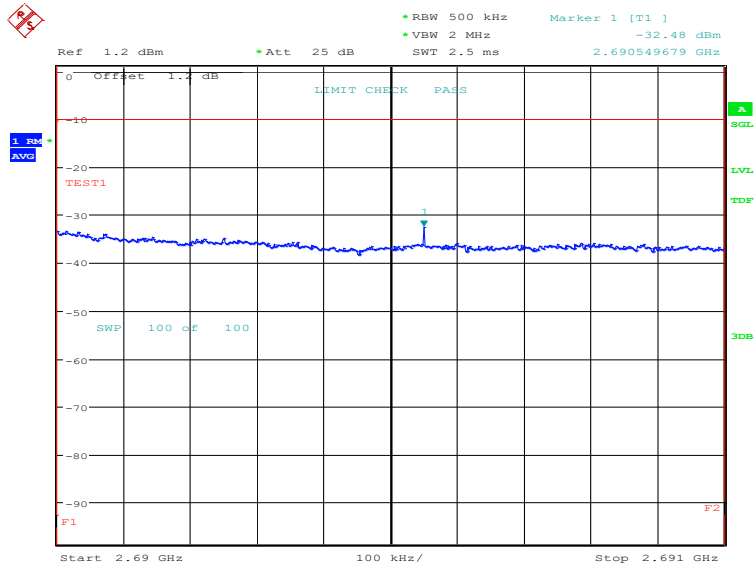
Date: 19.NOV.2020 17:58:55



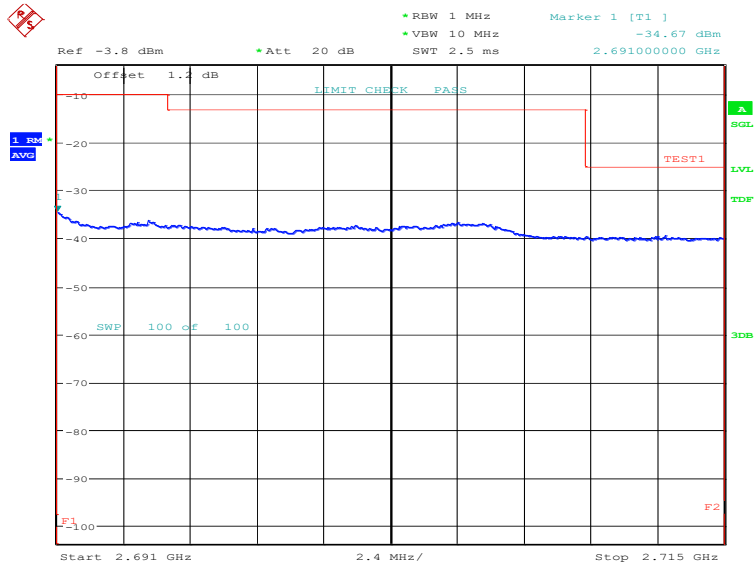


Date: 19.NOV.2020 17:59:09

### HIGH BAND EDGE BLOCK-20MHz-100%RB

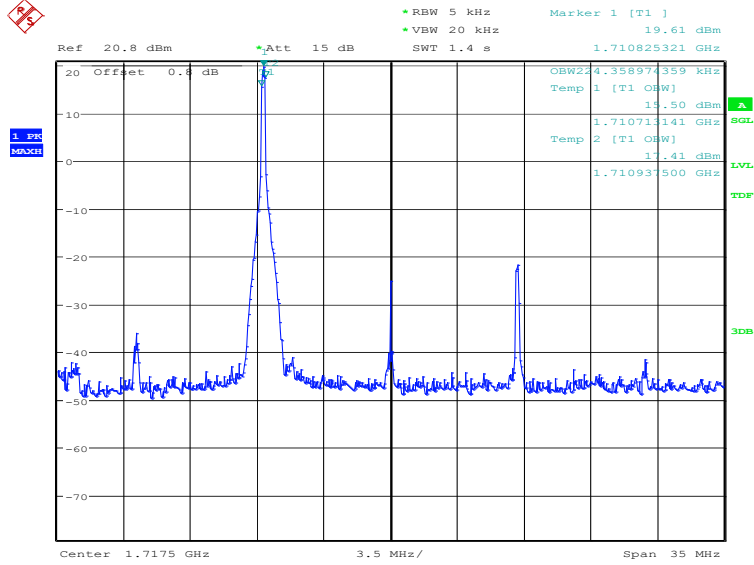


Date: 19.NOV.2020 18:00:37



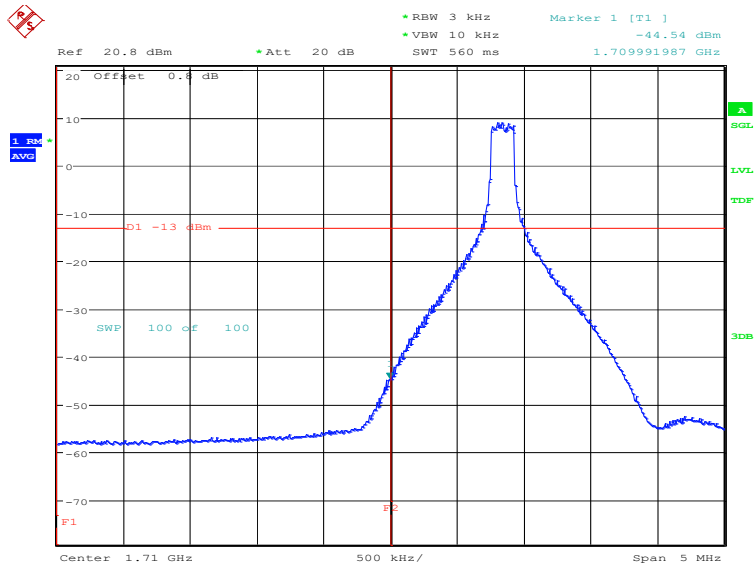
Date: 19.NOV.2020 18:00:51

**LTE band 66**  
**OBW: 1RB-low\_offset**



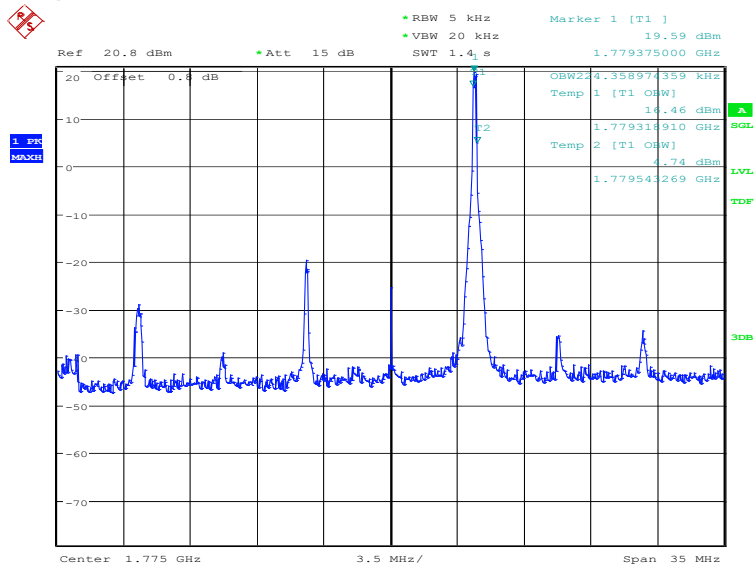
Date: 7. JAN. 2021 13:03:00

**LOW BAND EDGE BLOCK-1RB-low\_offset**



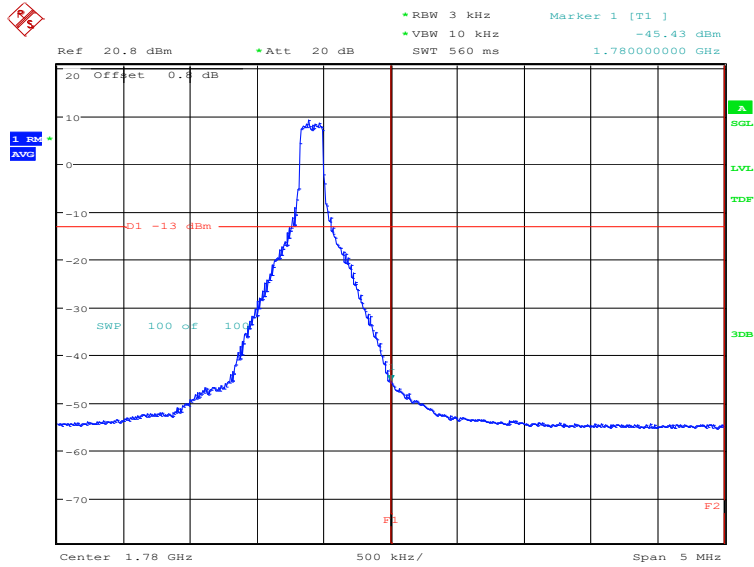
Date: 7. JAN. 2021 13:04:13

OBW: 1RB-high\_offset



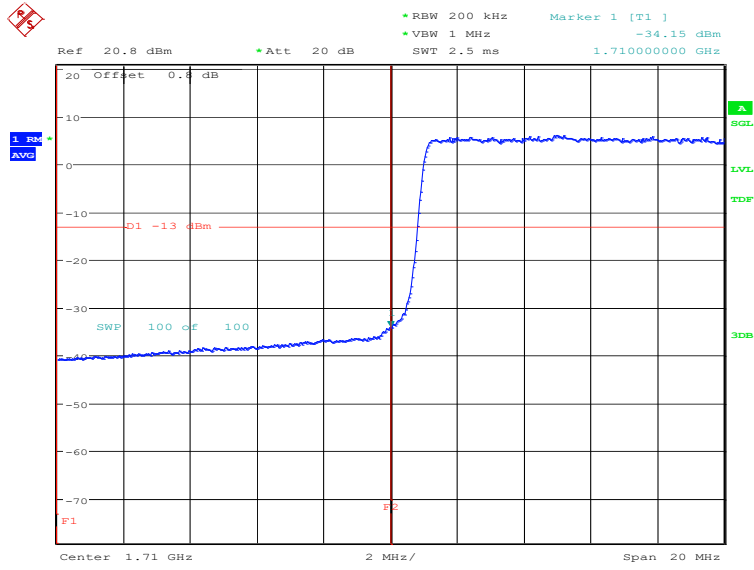
Date: 7.JAN.2021 13:05:27

HIGH BAND EDGE BLOCK-1RB-high\_offset



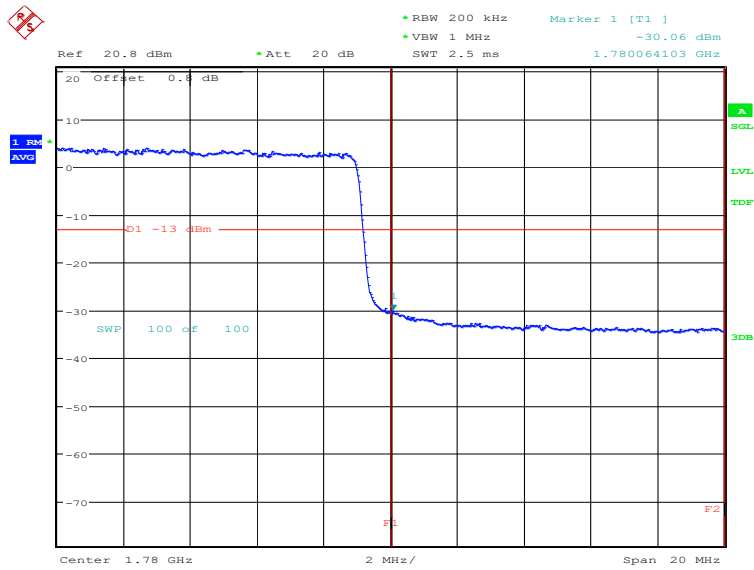
Date: 7.JAN.2021 13:06:40

### LOW BAND EDGE BLOCK-20MHz-100%RB



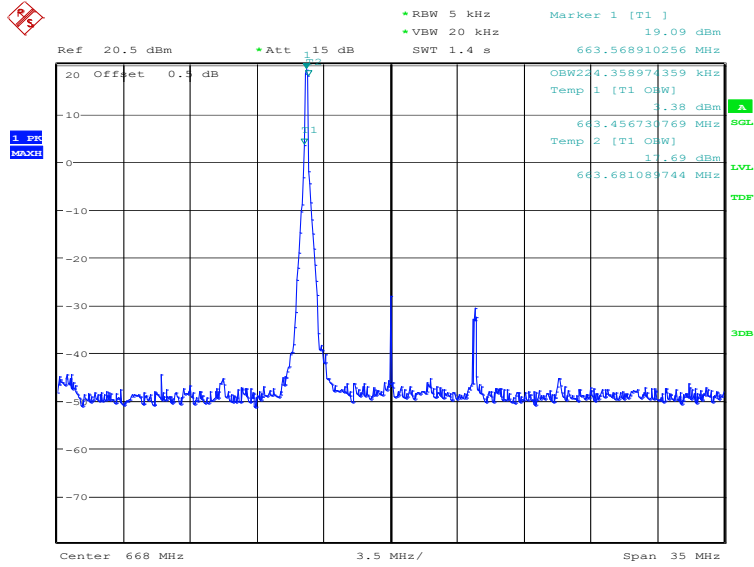
Date: 19.NOV.2020 17:55:28

### HIGH BAND EDGE BLOCK-20MHz-100%RB



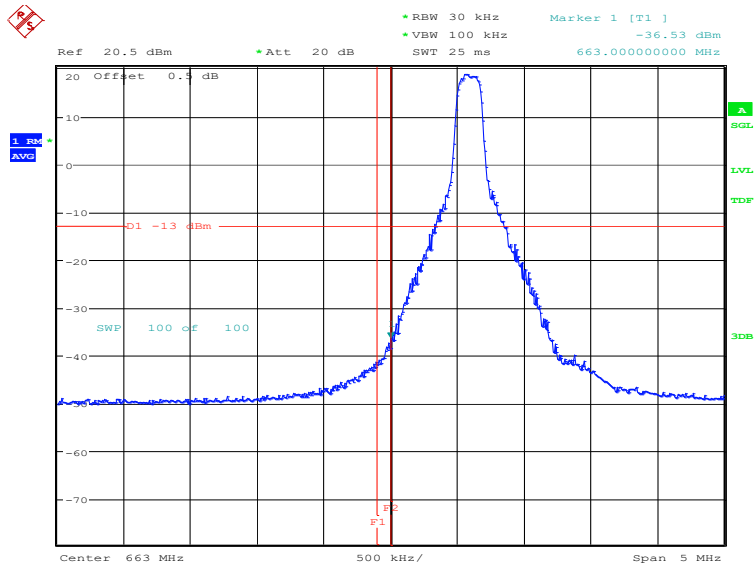
Date: 19.NOV.2020 17:56:49

**LTE band 71**  
**OBW: 1RB-low\_offset**



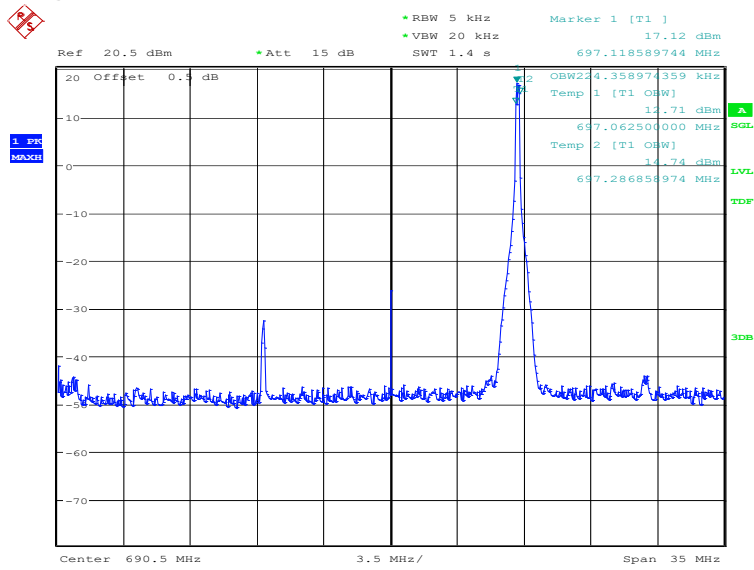
Date: 7. JAN. 2021 12:46:17

**LOW BAND EDGE BLOCK-1RB-low\_offset**



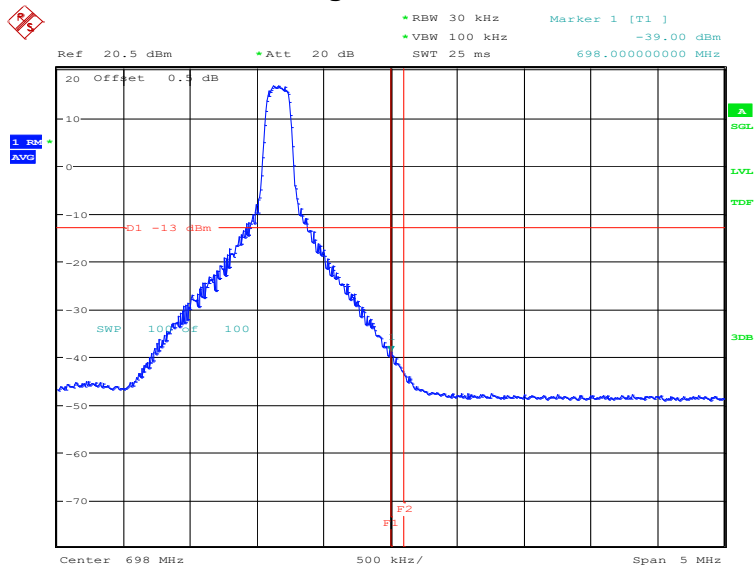
Date: 7. JAN. 2021 12:46:30

### OBW: 1RB-high\_offset



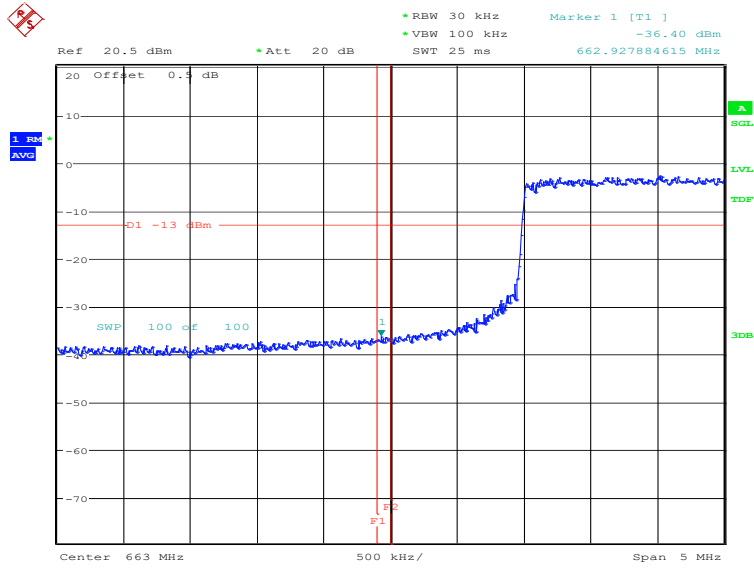
Date: 7.JAN.2021 12:47:06

### HIGH BAND EDGE BLOCK-1RB-high\_offset



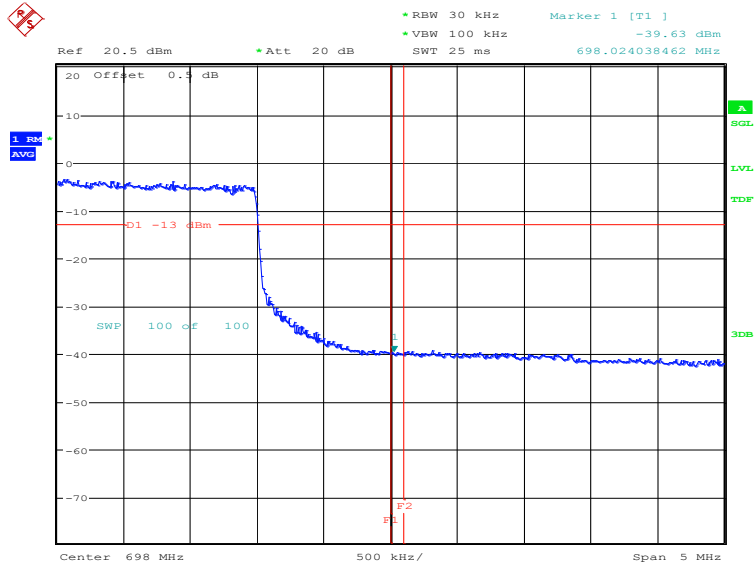
Date: 7.JAN.2021 12:47:19

### LOW BAND EDGE BLOCK-20MHz-100%RB



Date: 19.NOV.2020 17:35:41

### HIGH BAND EDGE BLOCK-20MHz-100%RB



Date: 19.NOV.2020 17:37:02



## **A.7 Conducted Spurious Emission**

### **A.7.1 Measurement Method**

The following steps outline the procedure used to measure the conducted emissions from the EUT.

1. In measuring unwanted emissions, the spectrum shall be investigated from 30 MHz or the lowest radio frequency signal generated in the equipment, whichever is lower, without going below 9 kHz, up to at least the frequency given below:
  - (a) If the equipment operates below 10 GHz: to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.
  - (b) If the equipment operates at or above 10 GHz: to the fifth harmonic of the highest fundamental frequency or to 100 GHz, whichever is lower.
2. Determine EUT transmit frequencies: below outlines the band edge frequencies pertinent to conducted emissions testing.
3. The number of sweep points of spectrum analyzer is set to 30001 which is greater than span/RBW.

### **A. 7.2 Measurement Limit**

Part 22.917, 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(c) states for operations in the 746-758 MHz band and the 776-788 MHz band, the power of any emission outside the 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, in accordance with the following:(1) On any frequency outside the 746-758 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;(2) 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;(4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than  $65 + 10 \log(P)$  dB in a 6.25 kHz band segment, for mobile and portable stations.

Part 27.53(f) states for operations in the 746–758 MHz, 775–788 MHz, and 805–806 MHz bands, emissions in the band 1559–1610 MHz shall be limited to -70dBW/MHz equivalent isotropically

radiated power (EIRP) for wideband signals.

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.

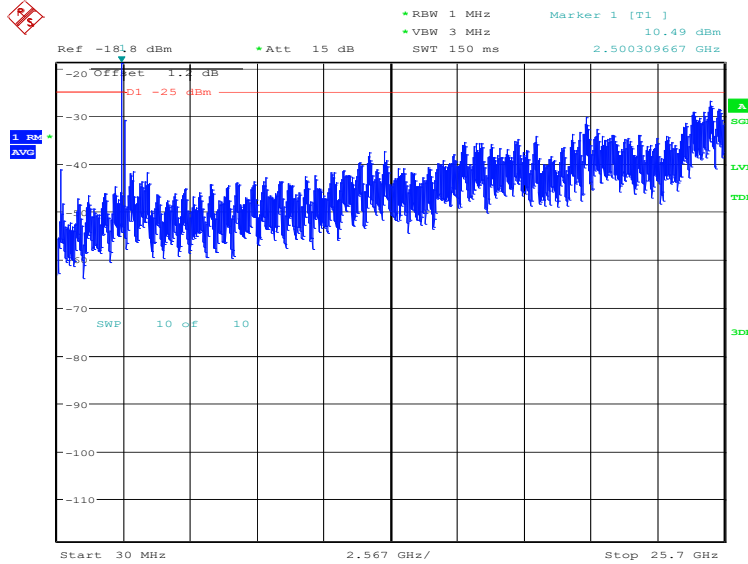
Part 90.691 states that out-of-band emission requirement shall apply only to the "outer" channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows: For any frequency removed from the EA licensee's frequency block by 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. 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.

**A. 7.3 Measurement result**

Only the worst case result is given below

LTE band 7: 30MHz – 25.7GHz

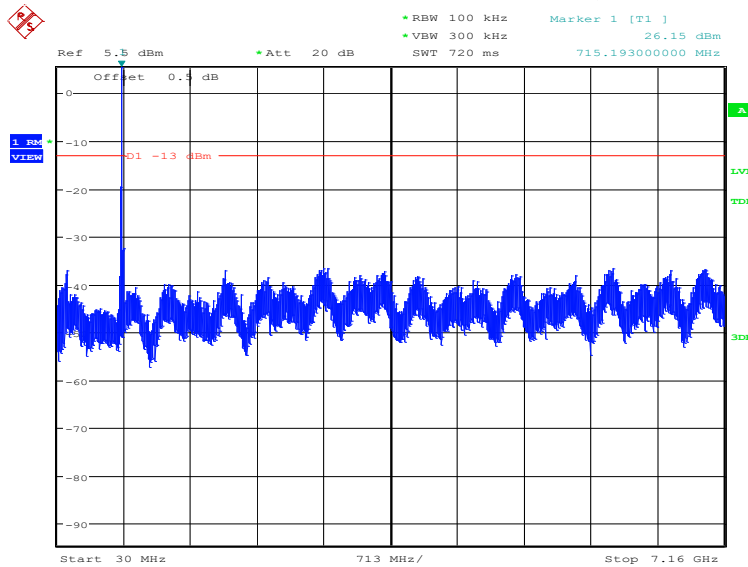
NOTE: peak above the limit line is the carrier frequency.



Date: 7.JAN.2021 13:19:47

LTE band 12: 30MHz – 7.16GHz

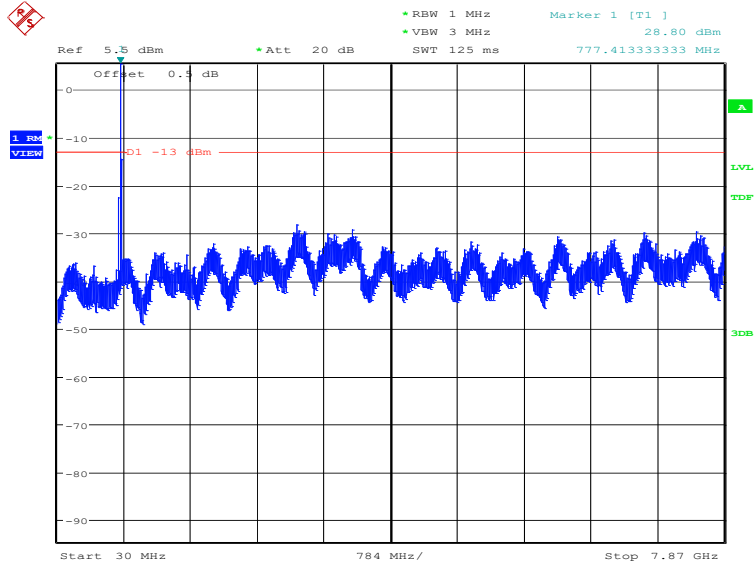
NOTE: peak above the limit line is the carrier frequency.



Date: 7.JAN.2021 13:20:27

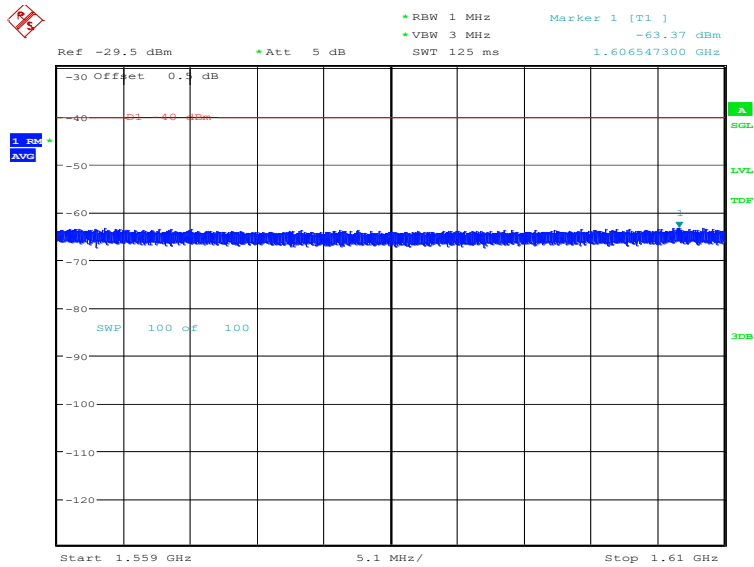
**LTE band 13: 30MHz – 7.87GHz**

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



Date: 7.JAN.2021 12:42:15

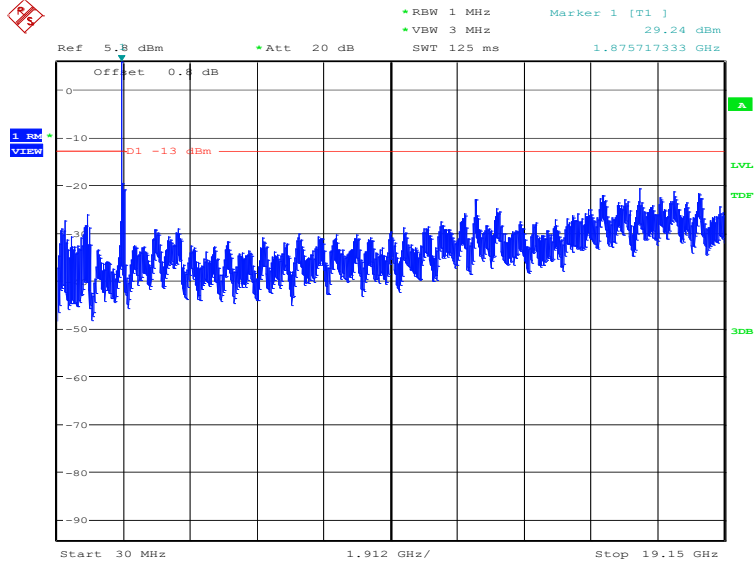
**LTE band 13: 1559MHz – 1610MHz**



Date: 7.JAN.2021 12:42:44

**LTE band 25: 30MHz – 19.15GHz**

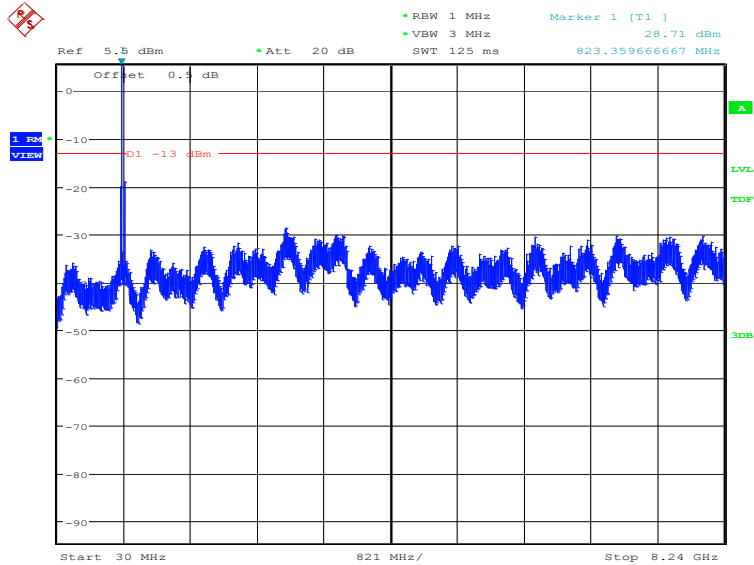
**NOTE: peak above the limit line is the carrier frequency.**



Date: 7. JAN. 2021 13:21:41

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

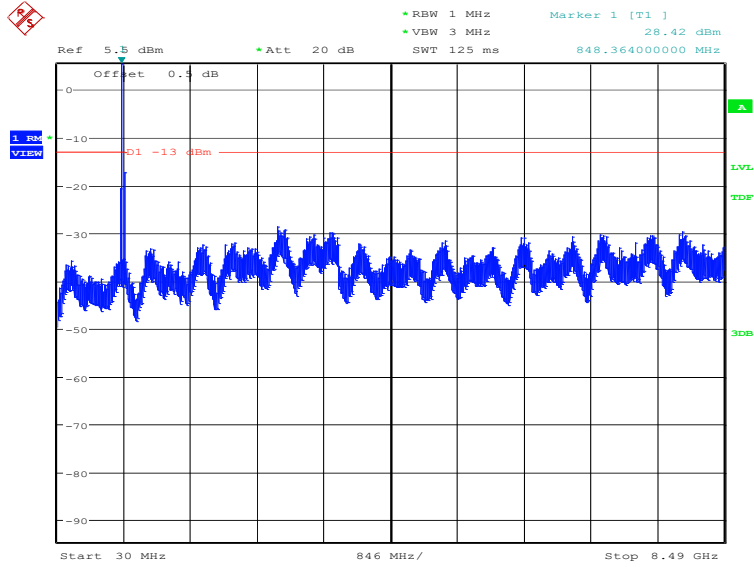
**NOTE: peak above the limit line is the carrier frequency.**



Date: 7. JAN. 2021 13:23:41

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

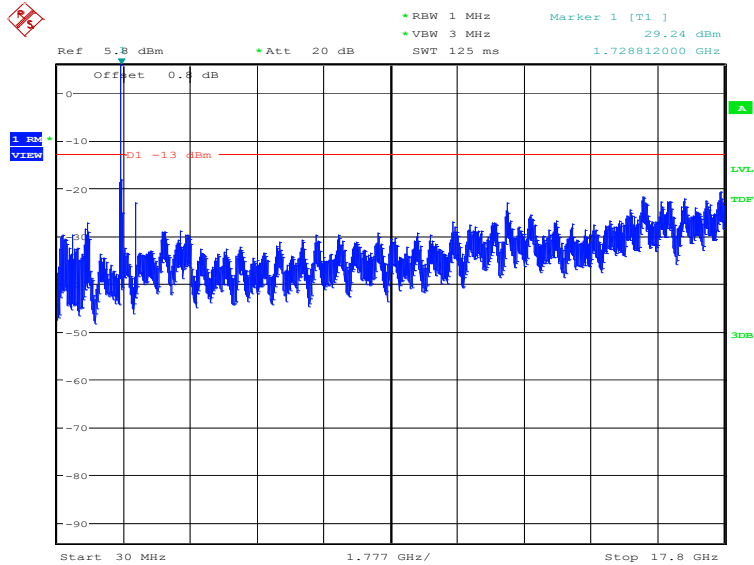
**NOTE: peak above the limit line is the carrier frequency.**



Date: 7. JAN. 2021 13:23:01

**LTE band 66: 30MHz – 17.8GHz**

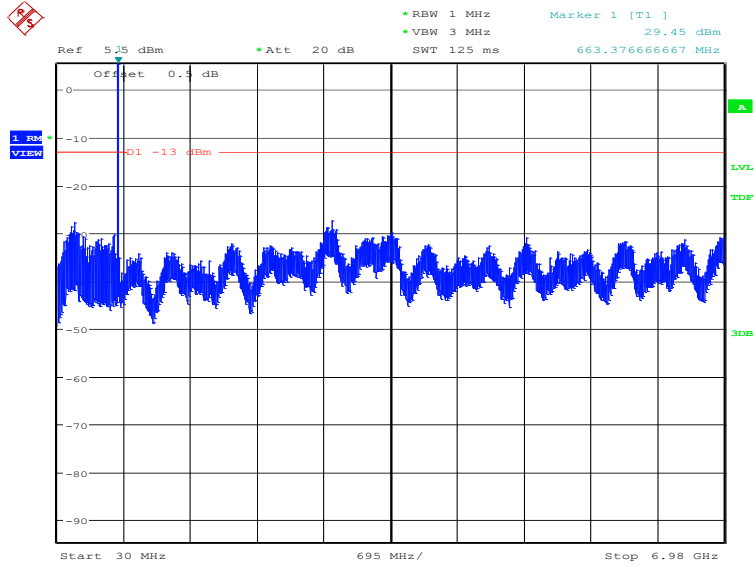
**NOTE: peak above the limit line is the carrier frequency.**



Date: 7. JAN. 2021 13:24:23

### LTE band 71: 30MHz – 6.98GHz

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



Date: 7. JAN. 2021 13:16:48

## **A.8 Peak-to-Average Power Ratio**

The peak-to-average ratio (PAR) of the transmission may not exceed 13 dB

- 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) Record the maximum PAPR level associated with a probability of 0.1%.

### **LTE band 7, 20MHz**

Frequency (MHz)	PAPR (dB)		
2535.0	QPSK	16QAM	64QAM
	6.99	7.34	7.37

### **LTE band 12, 10MHz**

Frequency (MHz)	PAPR (dB)		
707.5	QPSK	16QAM	64QAM
	5.61	6.38	6.44

### **LTE band 13, 10MHz**

Frequency (MHz)	PAPR (dB)		
782.0	QPSK	16QAM	64QAM
	5.35	6.19	6.35

### **LTE band 25, 20MHz**

Frequency (MHz)	PAPR (dB)		
1882.5	QPSK	16QAM	64QAM
	6.63	7.40	7.40

### **LTE band 41, 20MHz**

Frequency (MHz)	PAPR (dB)		
2593.0	QPSK	16QAM	64QAM
	8.27	8.94	9.17

### **LTE band 66, 20MHz**


Frequency (MHz)	PAPR (dB)		
1745.0	QPSK	16QAM	64QAM
	6.57	7.28	7.37

### **LTE band 71, 20MHz**

Frequency (MHz)	PAPR (dB)		
680.5	QPSK	16QAM	64QAM
	6.15	6.96	7.28



## Annex B: Accreditation Certificate

<p>United States Department of Commerce National Institute of Standards and Technology</p>  	
<hr/> <h3>Certificate of Accreditation to ISO/IEC 17025:2017</h3> <hr/>	
<p>NVLAP LAB CODE: 600118-0</p>	
<p><b>Telecommunication Technology Labs, CAICT</b> Beijing China</p>	
<p><i>is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for:</i></p>	
<p><b>Electromagnetic Compatibility &amp; Telecommunications</b></p>	
<p><i>This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).</i></p>	
<hr/> <p>2020-09-29 through 2021-09-30 <i>Effective Dates</i></p>	 <hr/> <p><i>[Signature]</i> For the National Voluntary Laboratory Accreditation Program</p>

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