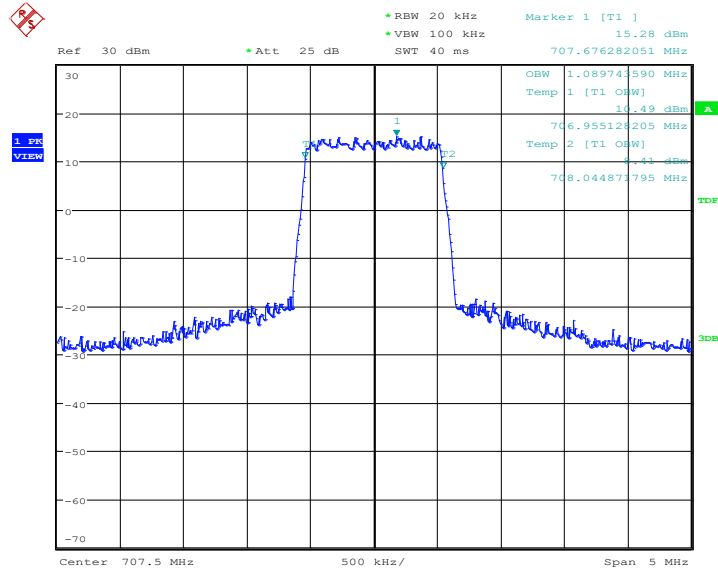


LTE band 12, 1.4MHz (99% BW)

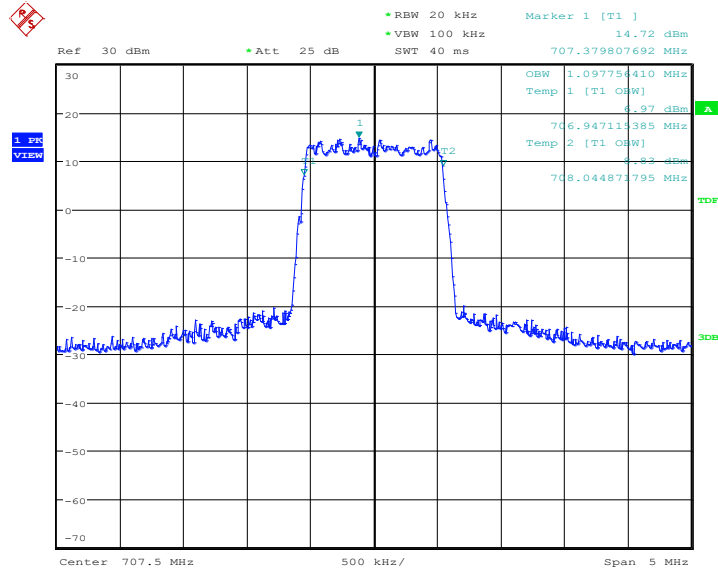
Frequency(MHz)	Occupied Bandwidth (99% BW)(kHz)		
707.5	QPSK	16QAM	64QAM
	1089.74	1097.76	1097.76

LTE band 12, 1.4MHz Bandwidth, QPSK (99% BW)



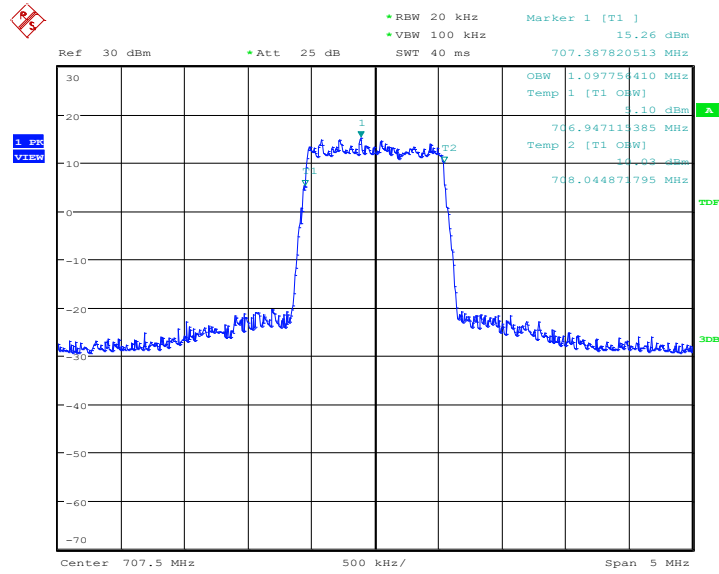
Date: 12.APR.2021 14:59:19

LTE band 12, 1.4MHz Bandwidth, 16QAM (99% BW)



Date: 12.APR.2021 14:59:33

LTE band 12, 1.4MHz Bandwidth, 64QAM (99% BW)

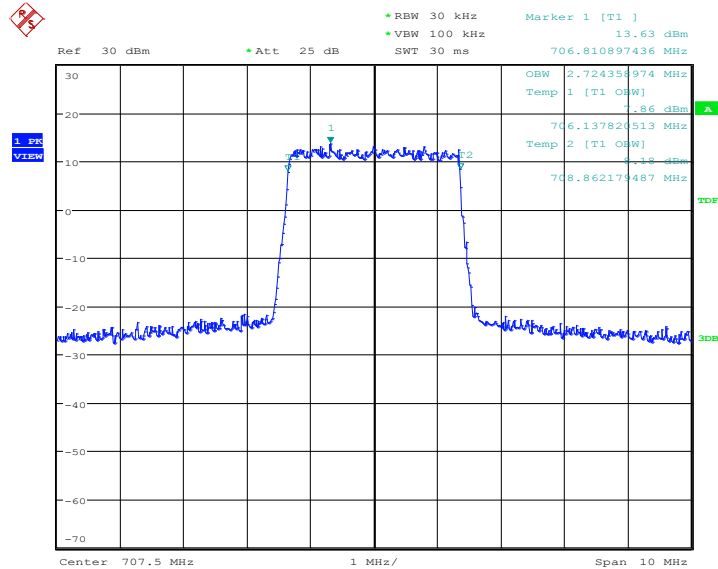


Date: 12.APR.2021 16:17:52

LTE band 12, 3MHz (99% BW)

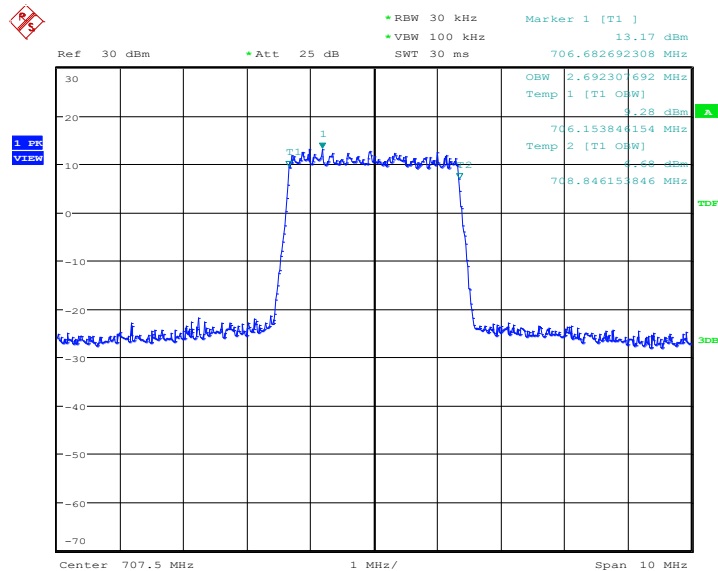
Frequency(MHz)	Occupied Bandwidth (99% BW)(kHz)		
	QPSK	16QAM	64QAM
707.5	2724.36	2692.31	2708.33

LTE band 12, 3MHz Bandwidth, QPSK (99% BW)



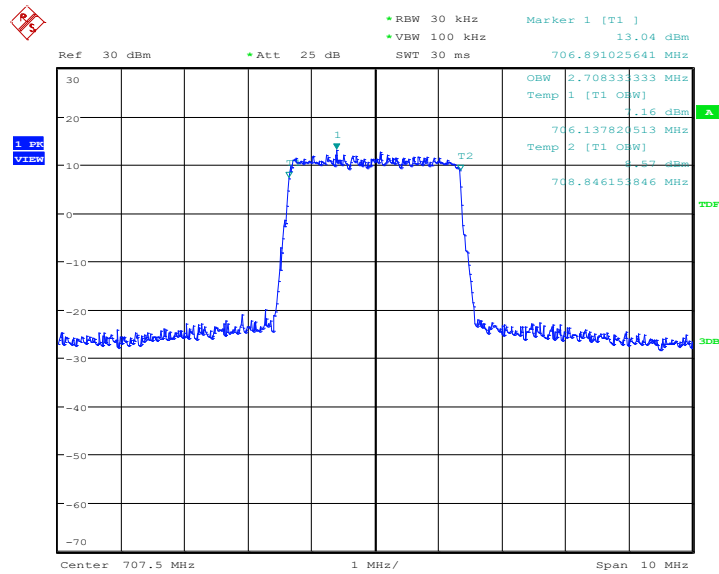
Date: 12.APR.2021 15:01:37

LTE band 12, 3MHz Bandwidth, 16QAM (99% BW)



Date: 12.APR.2021 15:01:51

LTE band 12, 3MHz Bandwidth, 64QAM (99% BW)

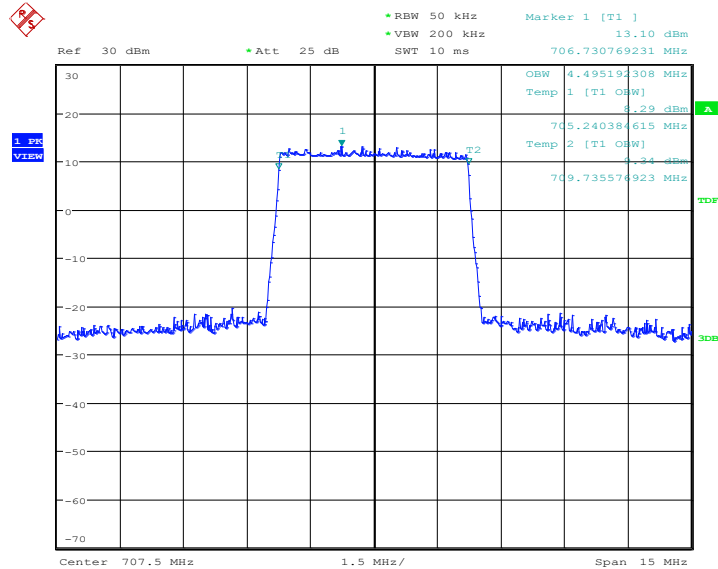


Date: 12.APR.2021 16:19:41

LTE band 12, 5MHz (99% BW)

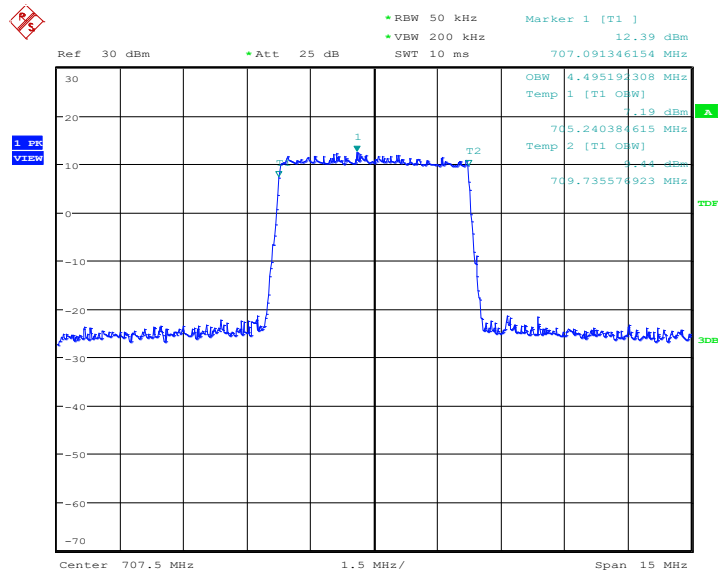
Frequency(MHz)	Occupied Bandwidth (99% BW)(kHz)		
707.5	QPSK	16QAM	64QAM
	4495.19	4495.19	4471.15

LTE band 12, 5MHz Bandwidth, QPSK (99% BW)



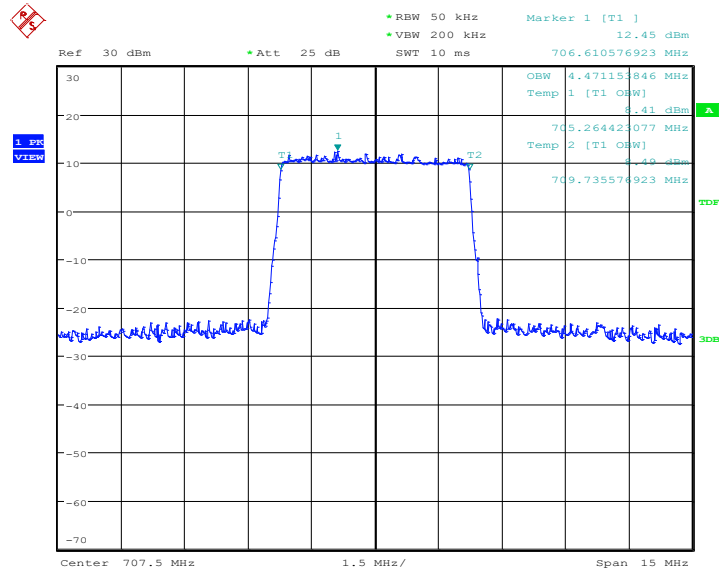
Date: 12.APR.2021 15:03:55

LTE band 12, 5MHz Bandwidth,16QAM (99% BW)



Date: 12.APR.2021 15:04:08

LTE band 12, 5MHz Bandwidth, 64QAM (99% BW)

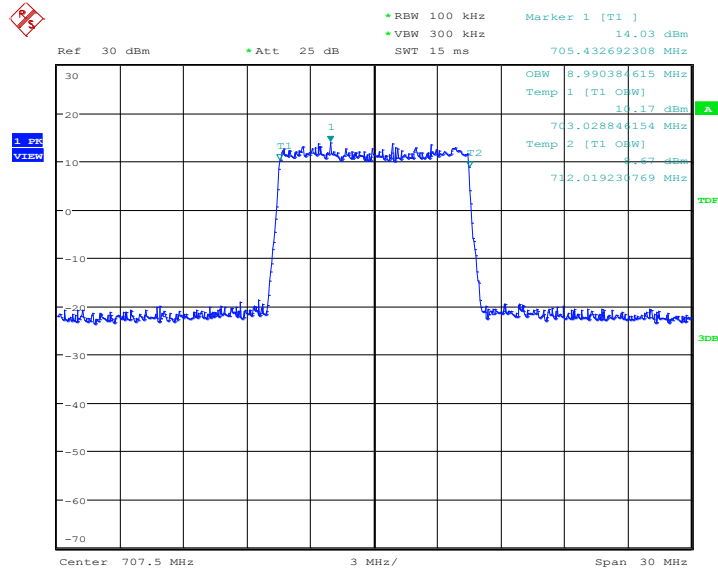


Date: 12.APR.2021 16:21:29

LTE band 12, 10MHz (99% BW)

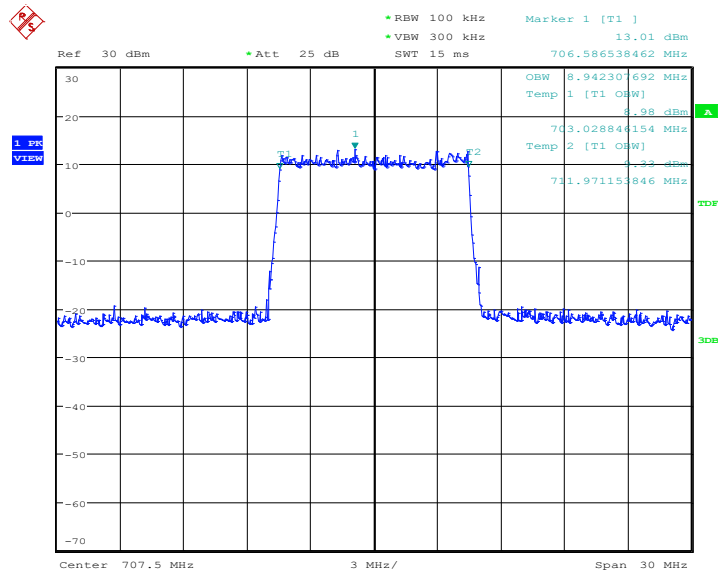
Frequency(MHz)	Occupied Bandwidth (99% BW)(kHz)		
707.5	QPSK	16QAM	64QAM
	8990.38	8942.31	8990.38

LTE band 12, 10MHz Bandwidth, QPSK (99% BW)



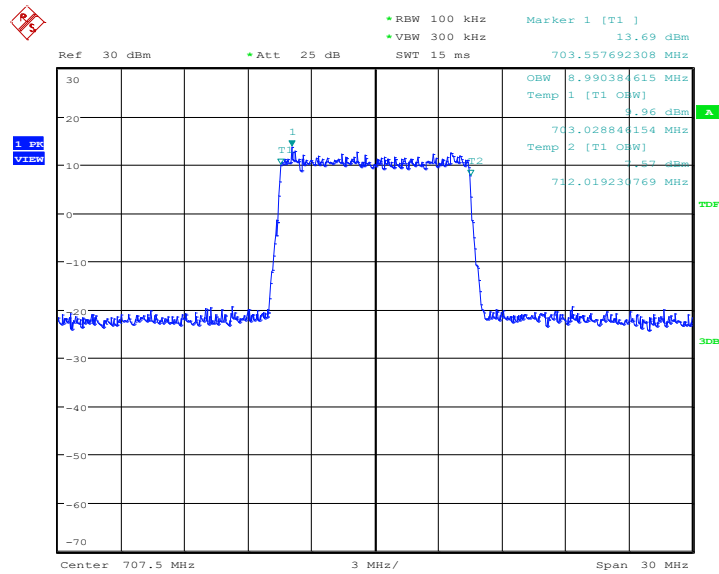
Date: 12.APR.2021 15:06:12

LTE band 12, 10MHz Bandwidth, 16QAM (99% BW)



Date: 12.APR.2021 15:06:26

LTE band 12, 10MHz Bandwidth, 64QAM (99% BW)

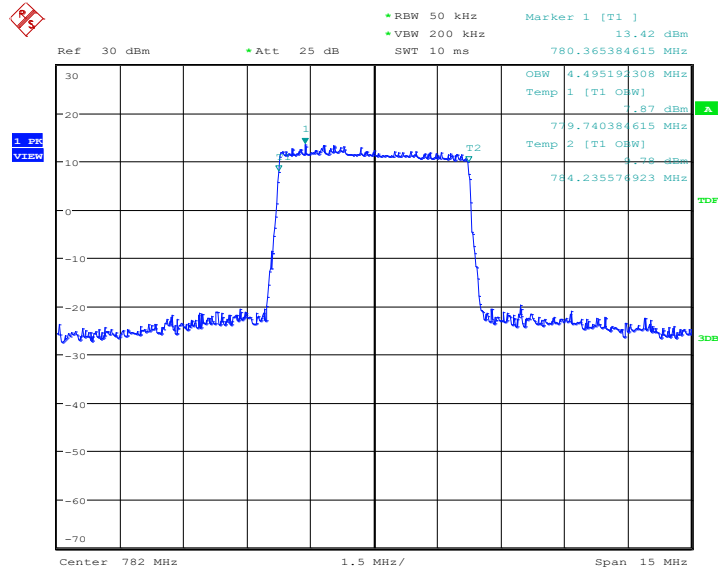


Date: 12.APR.2021 16:23:17

LTE band 13, 5MHz (99% BW)

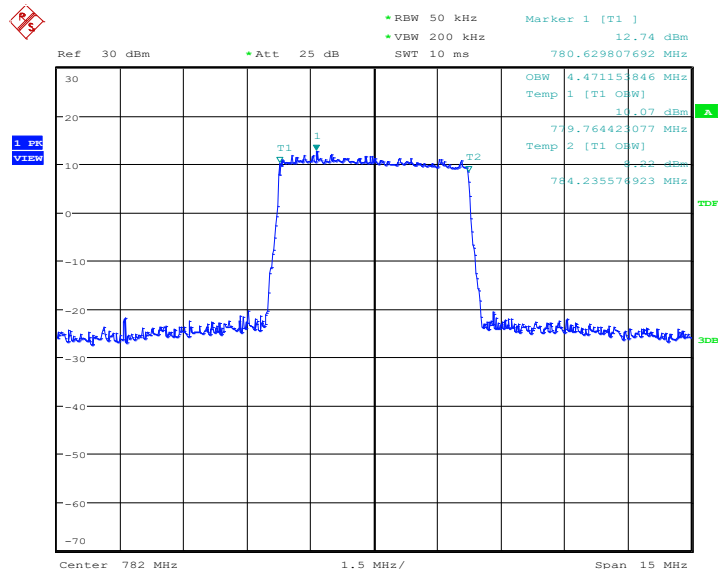
Frequency(MHz)	Occupied Bandwidth (99% BW)(kHz)		
782.0	QPSK	16QAM	64QAM
	4495.19	4471.15	4495.19

LTE band 13, 5MHz Bandwidth, QPSK (99% BW)



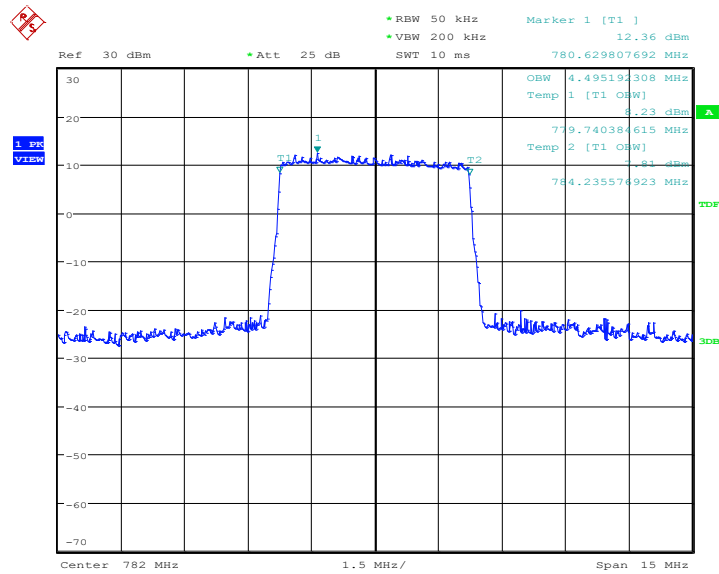
Date: 12.APR.2021 14:15:17

LTE band 13, 5MHz Bandwidth,16QAM (99% BW)



Date: 12.APR.2021 14:15:31

LTE band 13, 5MHz Bandwidth,64QAM (99% BW)

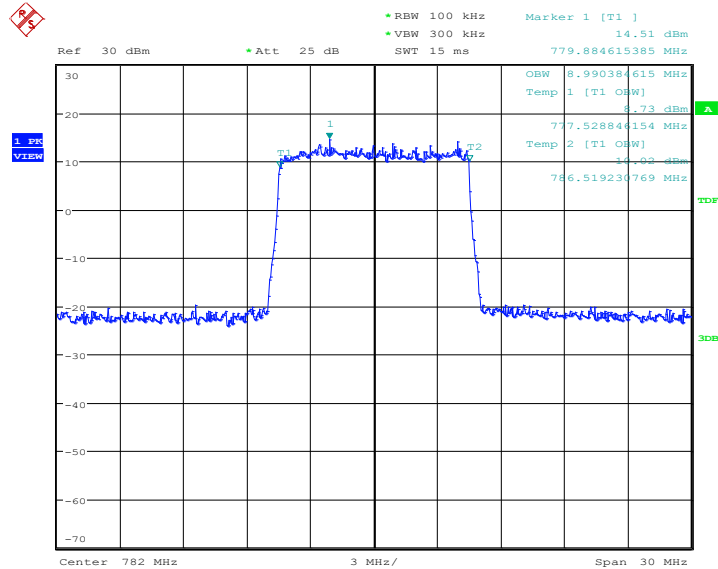


Date: 12.APR.2021 15:44:13

LTE band 13, 10MHz (99% BW)

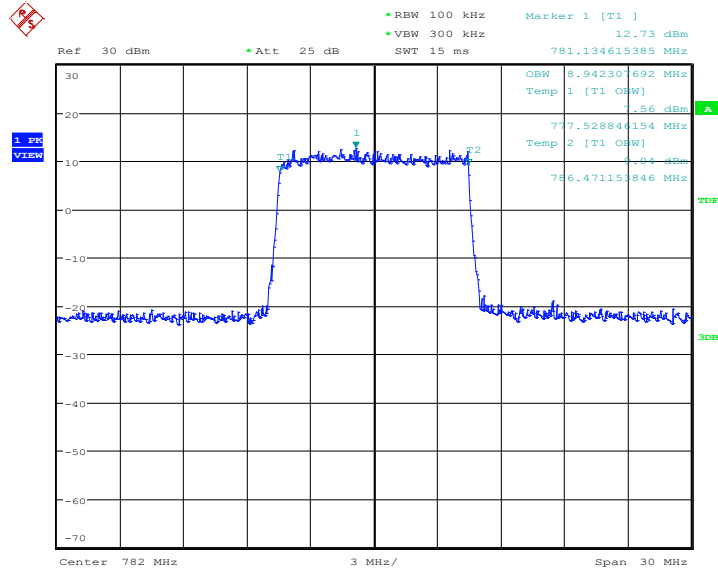
Frequency(MHz)	Occupied Bandwidth (99% BW)(kHz)		
782.0	QPSK	16QAM	64QAM
	8990.38	8942.31	8942.31

LTE band 13, 10MHz Bandwidth, QPSK (99% BW)



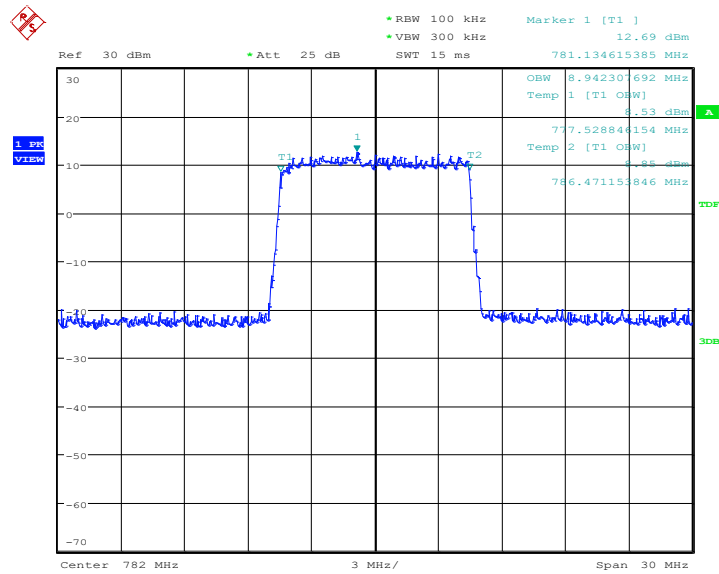
Date: 12.APR.2021 14:17:35

LTE band 13, 10MHz Bandwidth, 16QAM (99% BW)



Date: 12.APR.2021 14:17:49

LTE band 13, 10MHz Bandwidth, 64QAM (99% BW)

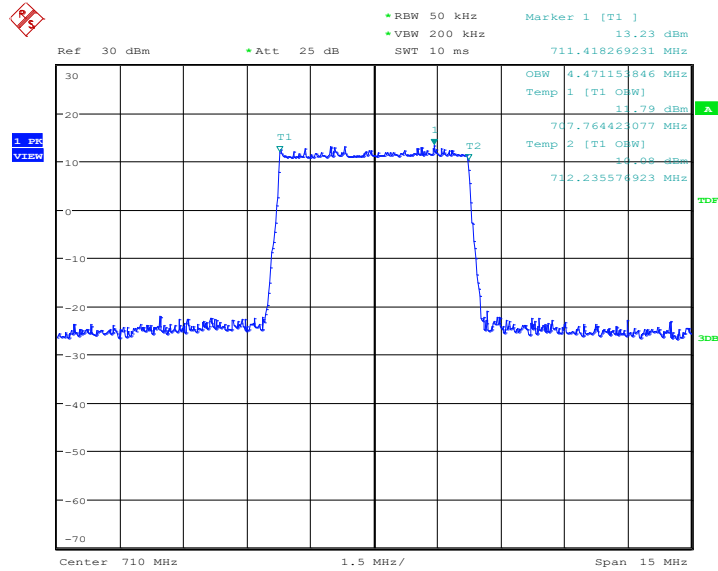


Date: 12.APR.2021 15:46:01

LTE band 17, 5MHz (99% BW)

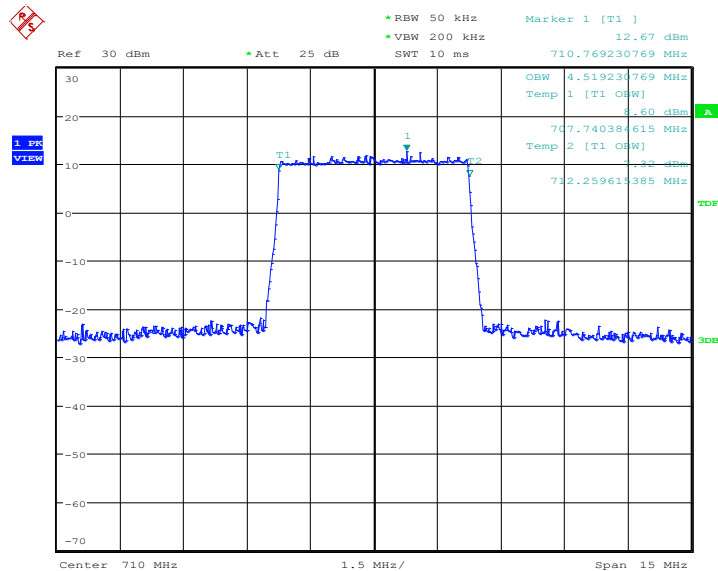
Frequency(MHz)	Occupied Bandwidth (99% BW)(kHz)		
710.0	QPSK	16QAM	64QAM
	4471.15	4519.23	4519.23

LTE band 17, 5MHz Bandwidth, QPSK (99% BW)



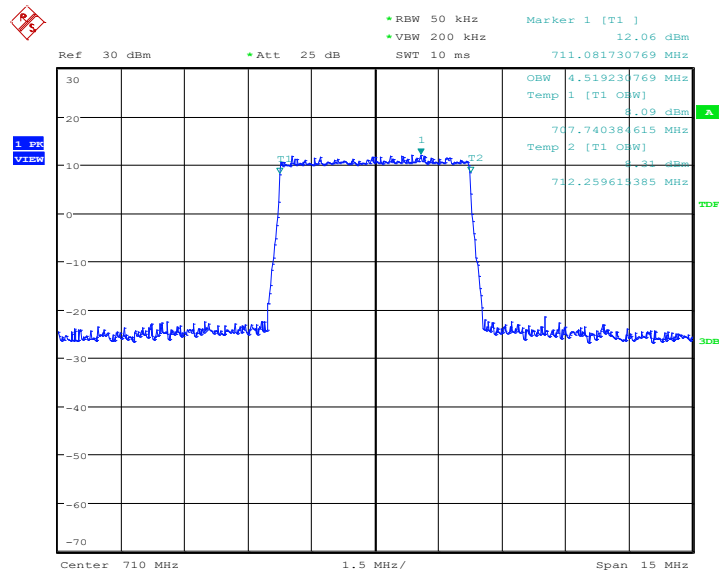
Date: 12.APR.2021 15:08:34

LTE band 17, 5MHz Bandwidth,16QAM (99% BW)



Date: 12.APR.2021 15:08:48

LTE band 17, 5MHz Bandwidth,64QAM (99% BW)

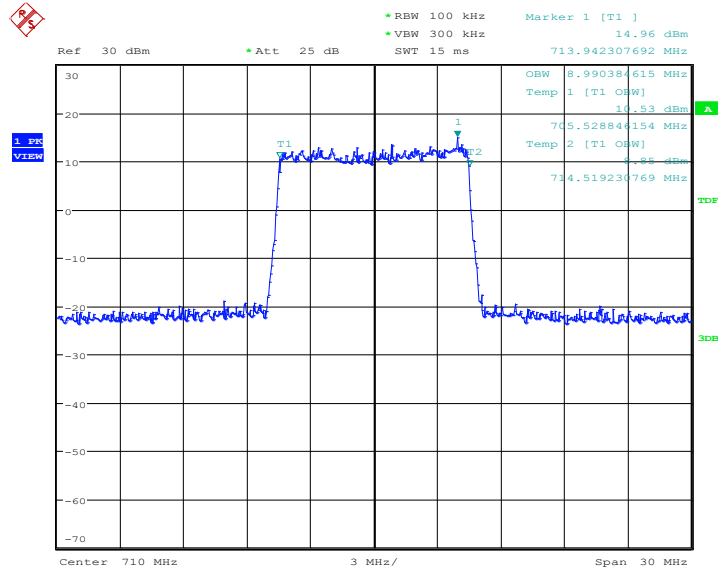


Date: 12.APR.2021 16:25:09

LTE band 17, 10MHz (99% BW)

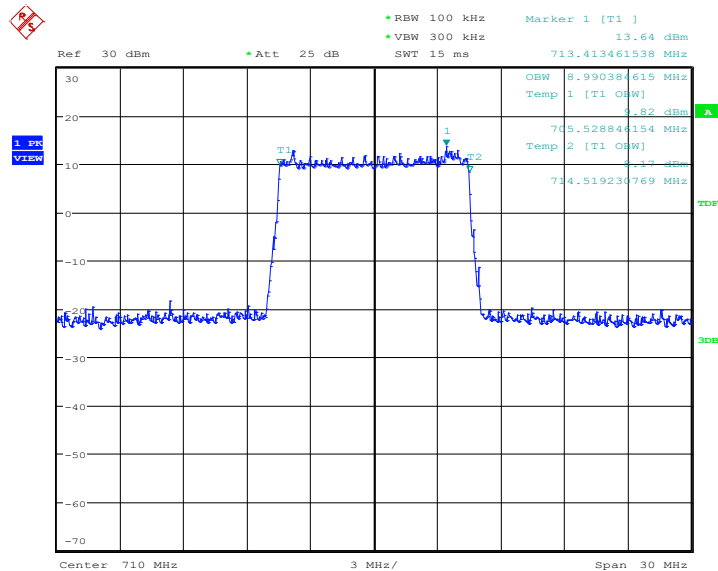
Frequency(MHz)	Occupied Bandwidth (99% BW)(kHz)		
710.0	QPSK	16QAM	64QAM
	8990.38	8990.38	8990.38

LTE band 17, 10MHz Bandwidth, QPSK (99% BW)



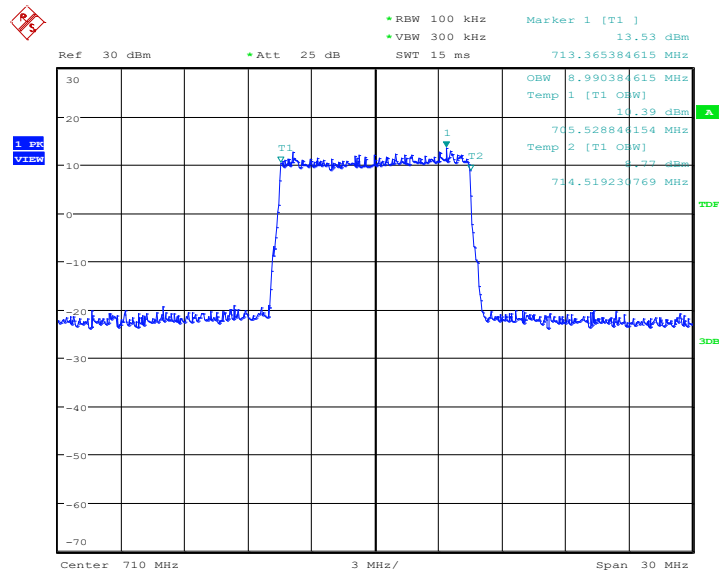
Date: 12.APR.2021 15:10:51

LTE band 17, 10MHz Bandwidth, 16QAM (99% BW)



Date: 12.APR.2021 15:11:05

LTE band 17, 10MHz Bandwidth, 64QAM (99% BW)

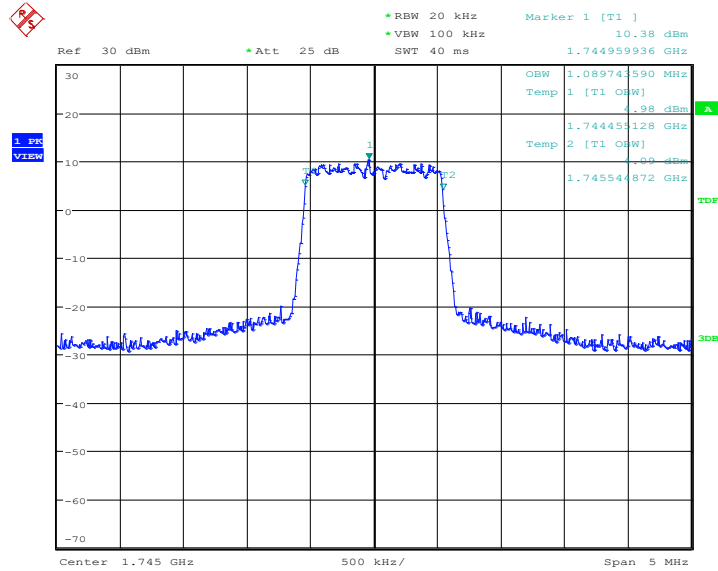


Date: 12.APR.2021 16:26:57

LTE band 66, 1.4MHz (99% BW)

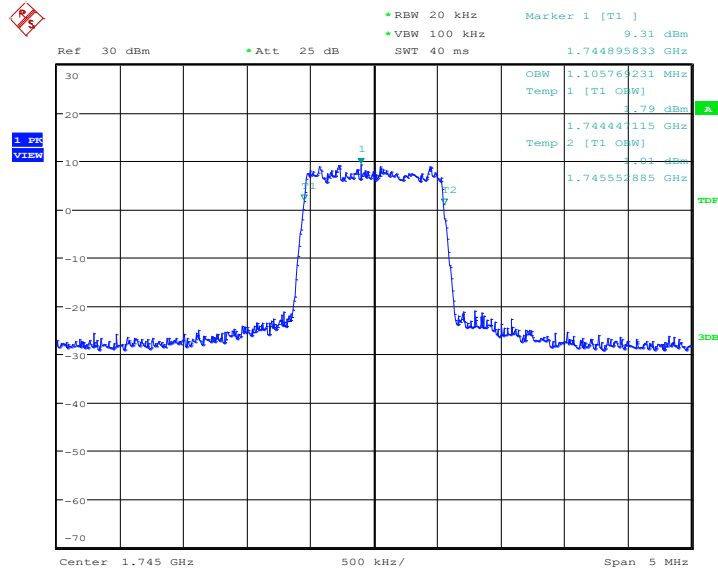
Frequency(MHz)	Occupied Bandwidth (99% BW)(kHz)		
1745.0	QPSK	16QAM	64QAM
	1089.74	1105.77	1089.74

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



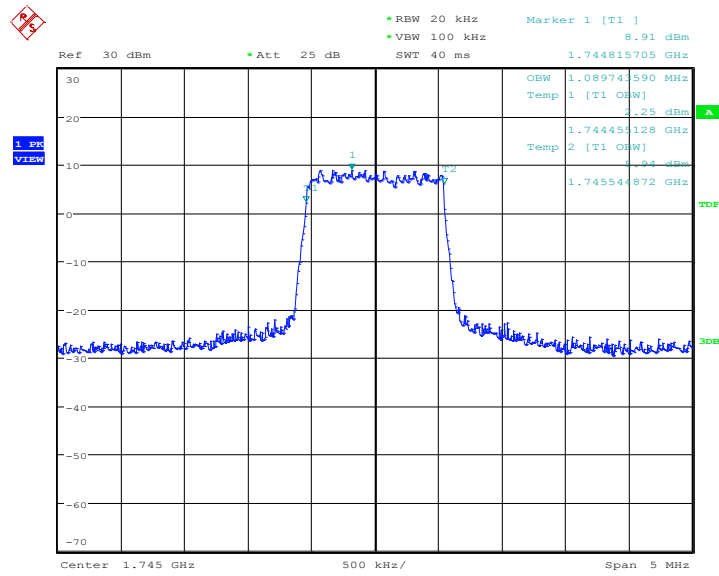
Date: 12.APR.2021 15:13:13

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



Date: 12.APR.2021 15:13:27

LTE band 66, 1.4MHz Bandwidth, 64QAM (99% BW)

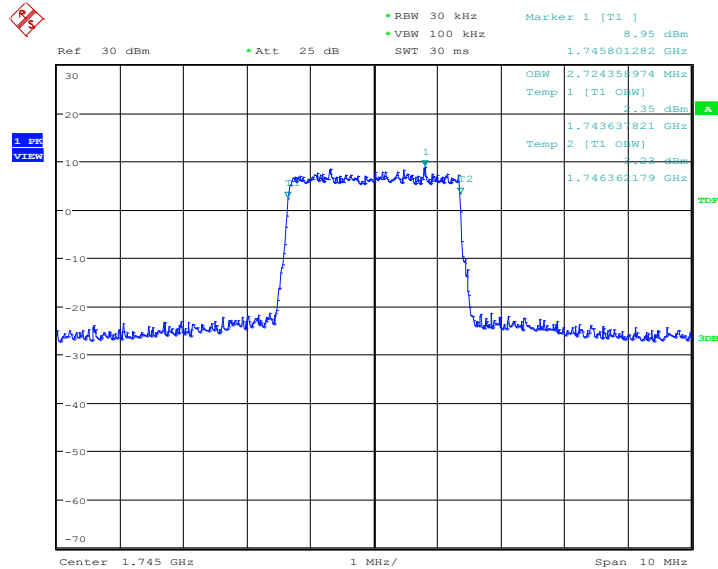


Date: 12.APR.2021 16:28:47

LTE band 66, 3MHz (99% BW)

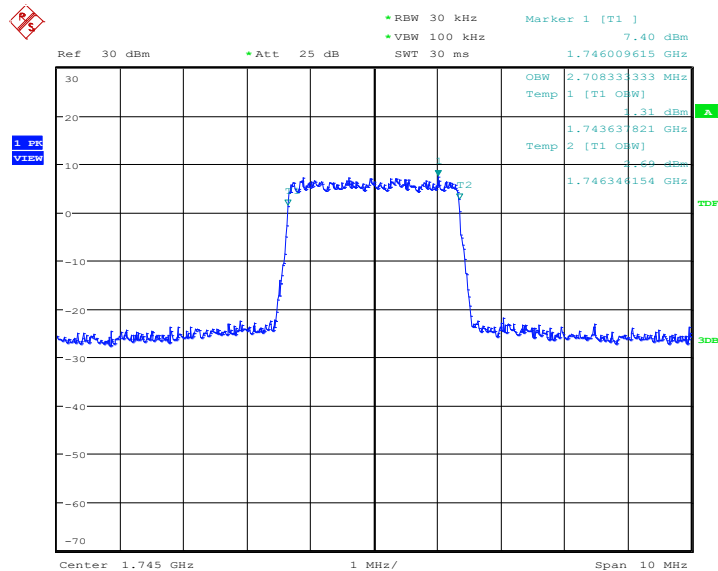
Frequency(MHz)	Occupied Bandwidth (99% BW)(kHz)		
1745.0	QPSK	16QAM	64QAM
	2724.36	2708.33	2708.33

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



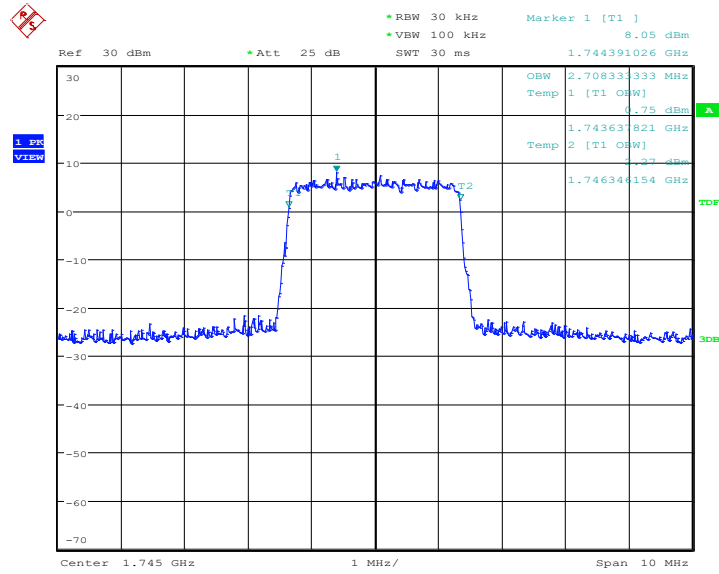
Date: 12.APR.2021 15:15:31

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



Date: 12.APR.2021 15:15:45

LTE band 66, 3MHz Bandwidth, 64QAM (99% BW)

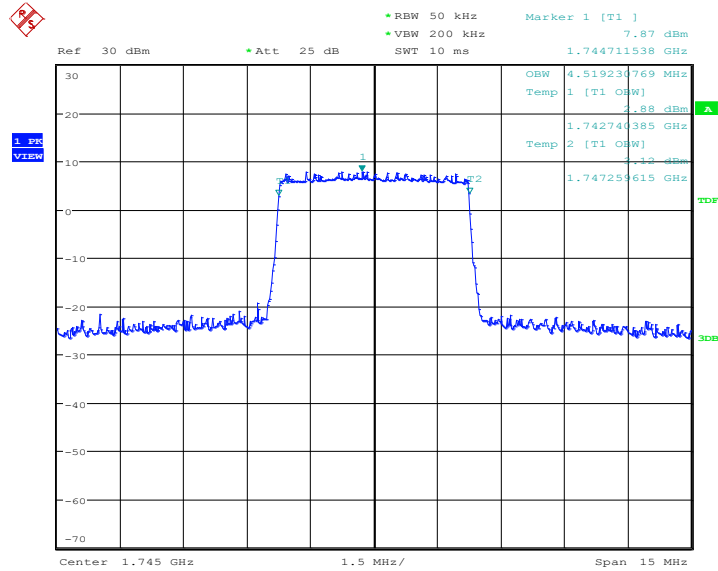


Date: 12.APR.2021 16:30:35

LTE band 66, 5MHz (99% BW)

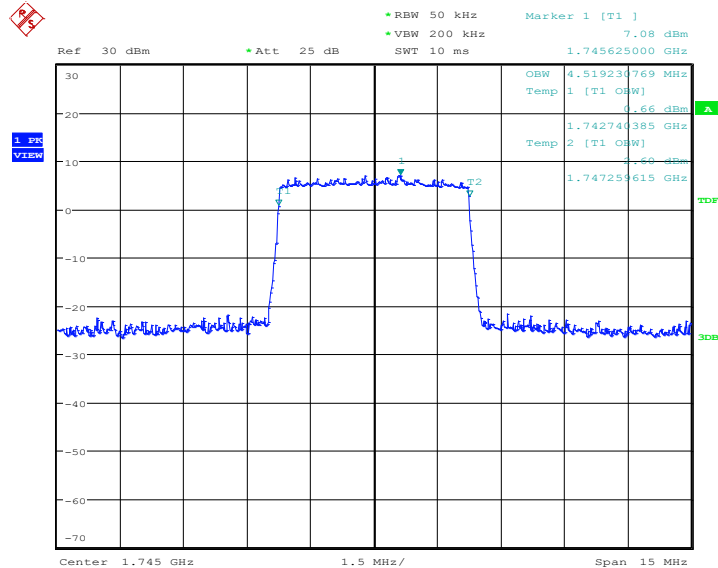
Frequency(MHz)	Occupied Bandwidth (99% BW)(kHz)		
1745.0	QPSK	16QAM	64QAM
	4519.23	4519.23	4519.23

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



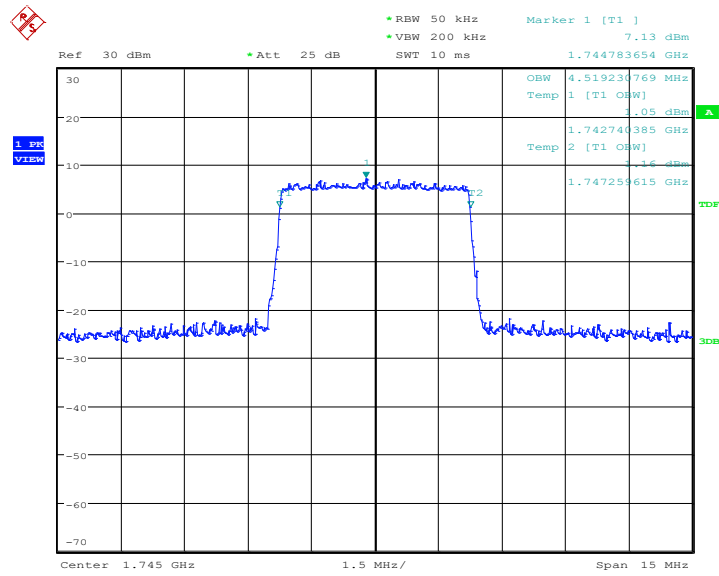
Date: 12.APR.2021 15:17:49

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



Date: 12.APR.2021 15:18:02

LTE band 66, 5MHz Bandwidth,64QAM (99% BW)

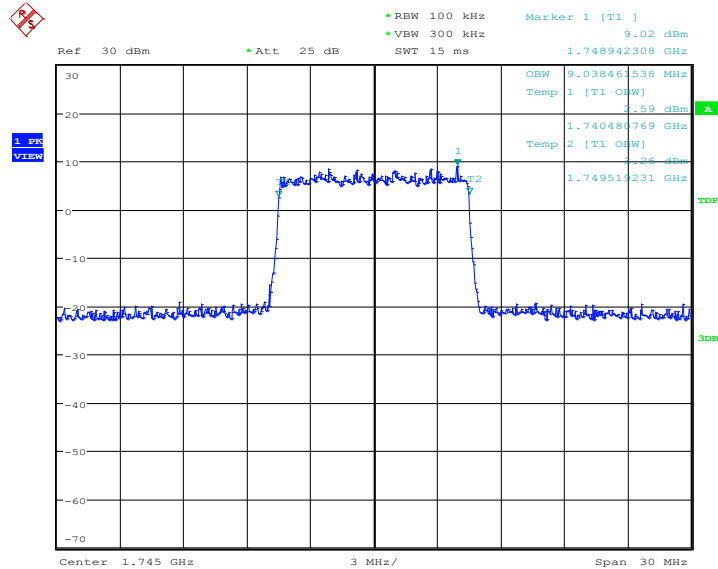


Date: 12.APR.2021 16:32:23

LTE band 66, 10MHz (99% BW)

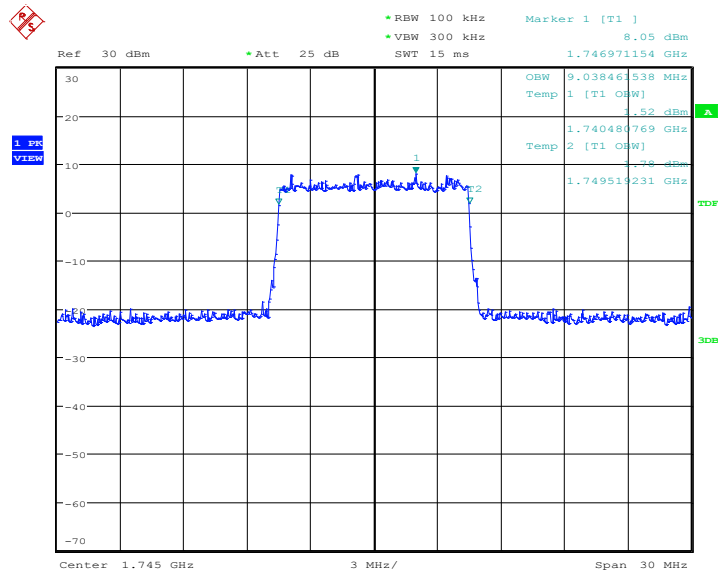
Frequency(MHz)	Occupied Bandwidth (99% BW)(kHz)		
1745.0	QPSK	16QAM	64QAM
	9038.46	9038.46	9038.46

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



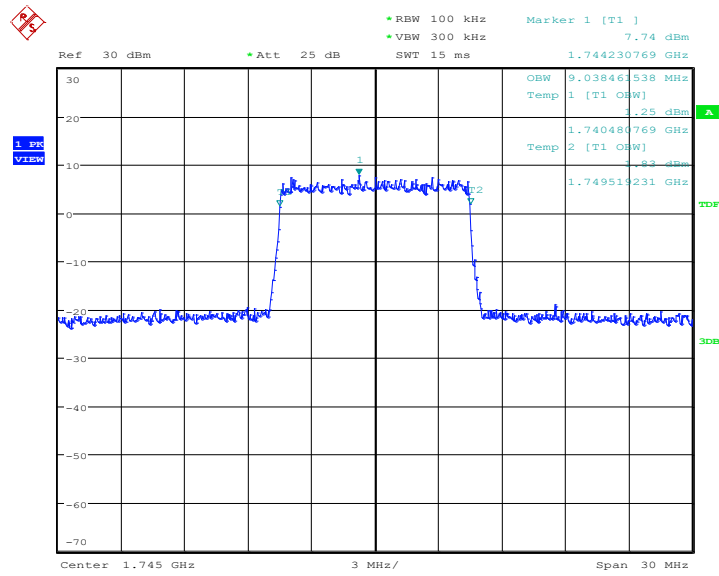
Date: 12.APR.2021 15:20:06

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



Date: 12.APR.2021 15:20:20

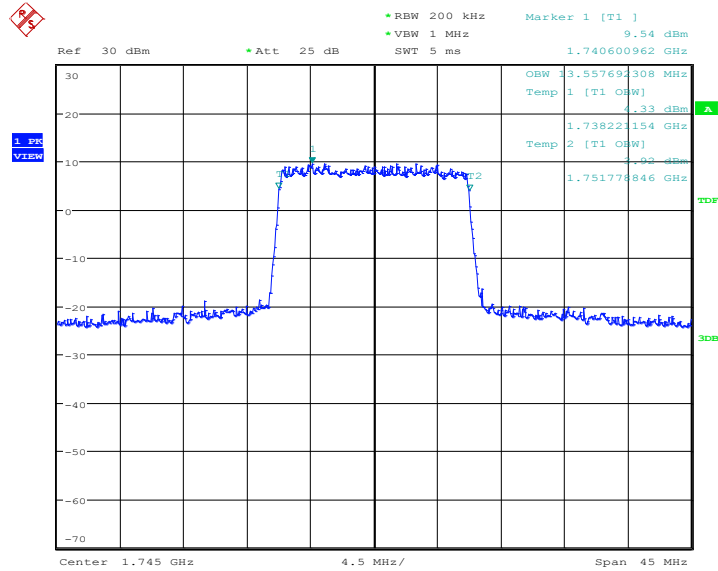
LTE band 66, 10MHz Bandwidth, 64QAM (99% BW)



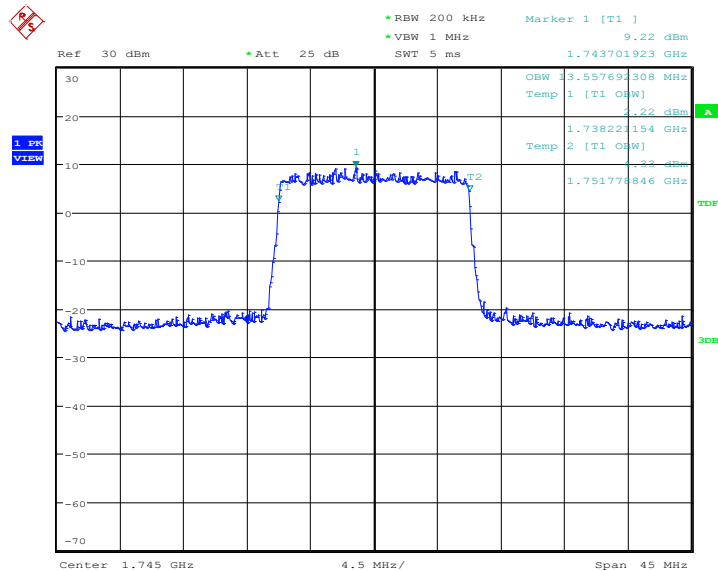
Date: 12.APR.2021 16:34:11

LTE band 66, 15MHz (99% BW)

Frequency(MHz)	Occupied Bandwidth (99% BW)(kHz)		
1745.0	QPSK	16QAM	64QAM
	13557.69	13557.69	13485.58

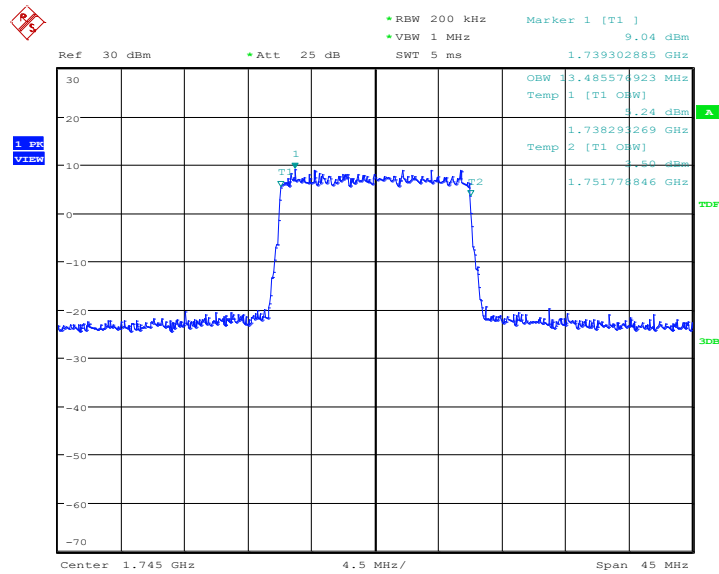
LTE band 66, 15MHz Bandwidth, QPSK (99% BW)


Date: 12.APR.2021 15:22:24

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


Date: 12.APR.2021 15:22:38

LTE band 66, 15MHz Bandwidth, 64QAM (99% BW)

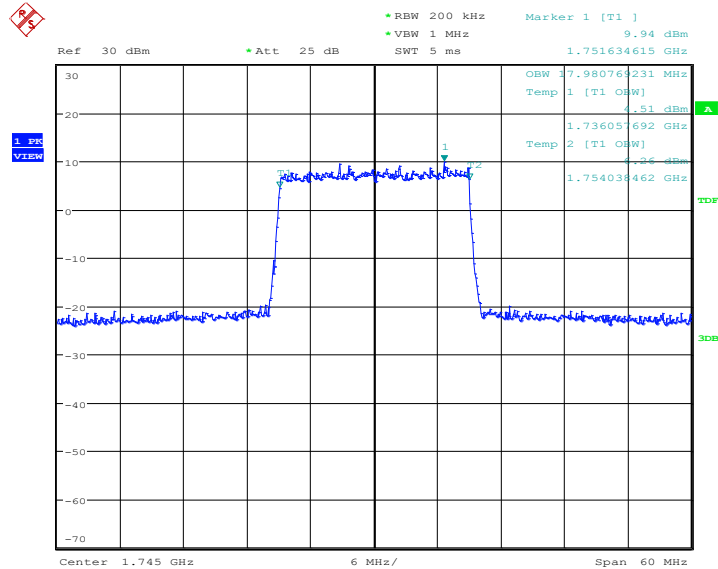


Date: 12.APR.2021 16:36:00

LTE band 66, 20MHz (99% BW)

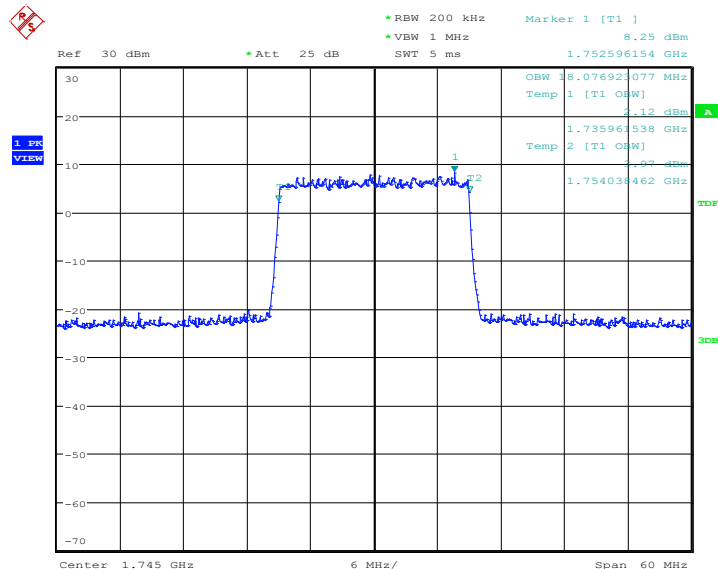
Frequency(MHz)	Occupied Bandwidth (99% BW)(kHz)		
1745.0	QPSK	16QAM	64QAM
	17980.77	18076.92	18076.92

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



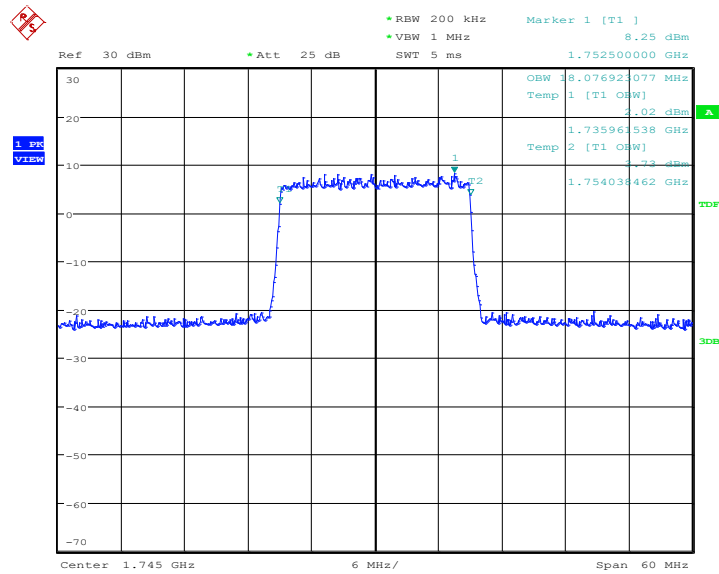
Date: 12.APR.2021 15:24:42

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



Date: 12.APR.2021 15:24:56

LTE band 66, 20MHz Bandwidth, 64QAM (99% BW)



Date: 12.APR.2021 16:37:48

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

A.5 EMISSION BANDWIDTH

Reference

FCC: CFR Part 2.1049, 22.917, 24.238, 27.53.

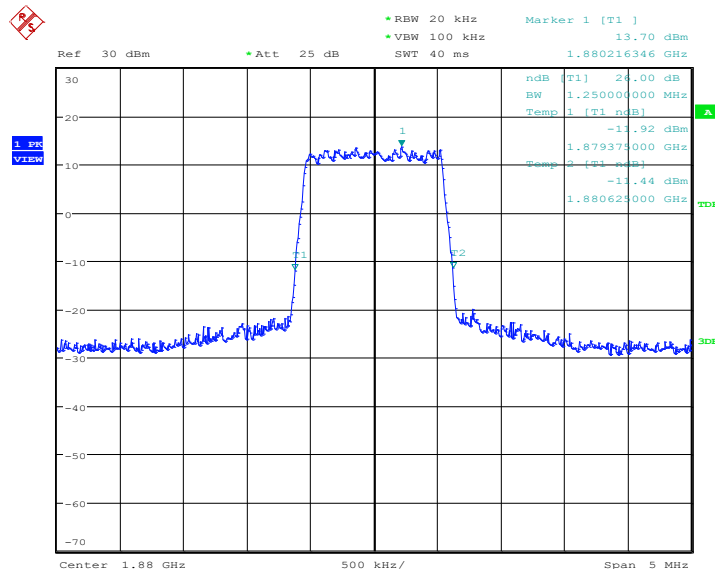
A.5.1 Emission Bandwidth Results

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.

LTE band 2, 1.4MHz (-26dBc BW)

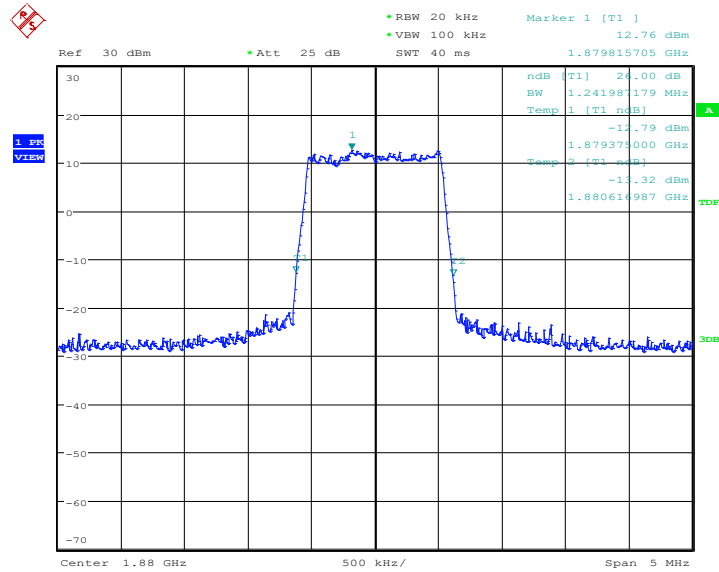
Frequency(MHz)	Emission Bandwidth (-26dBc BW)(kHz)		
1880.0	QPSK	16QAM	64QAM
	1250.00	1241.99	1241.99

LTE band 2, 1.4MHz Bandwidth, QPSK (-26dBc BW)



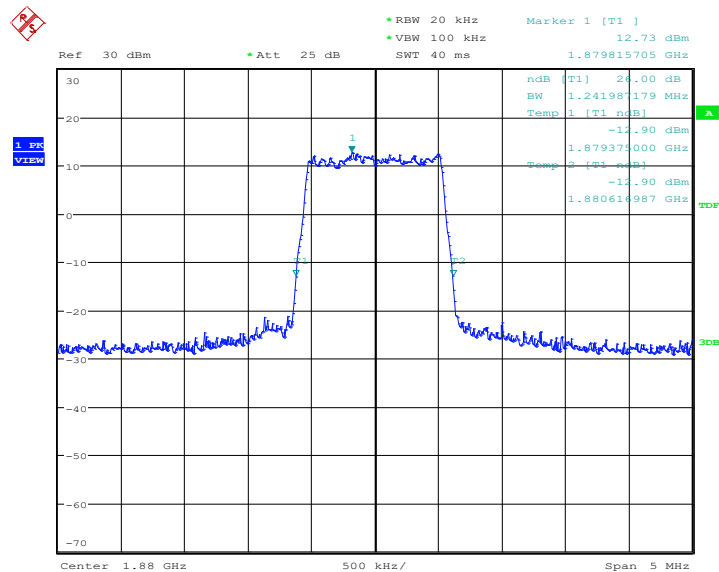
Date: 12.APR.2021 14:30:44

LTE band 2, 1.4MHz Bandwidth, 16QAM (-26dBc BW)



Date: 12.APR.2021 14:31:00

LTE band 2, 1.4MHz Bandwidth, 64QAM (-26dBc BW)

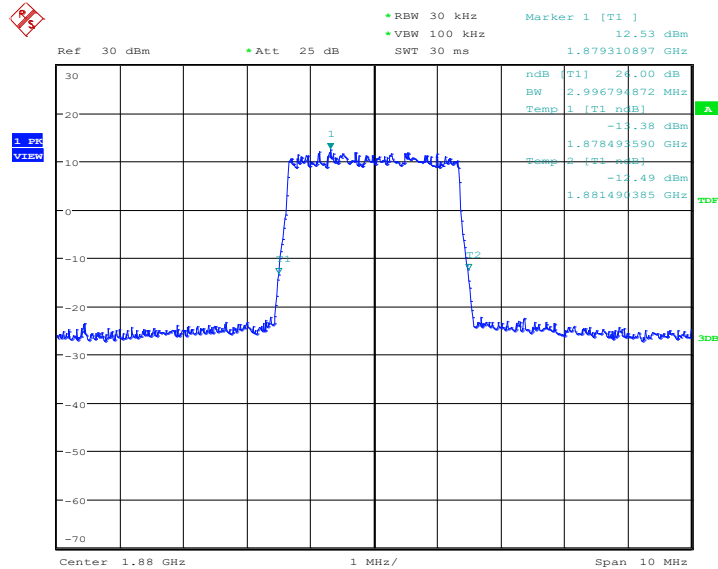


Date: 12.APR.2021 15:56:32

LTE band 2, 3MHz (-26dBc BW)

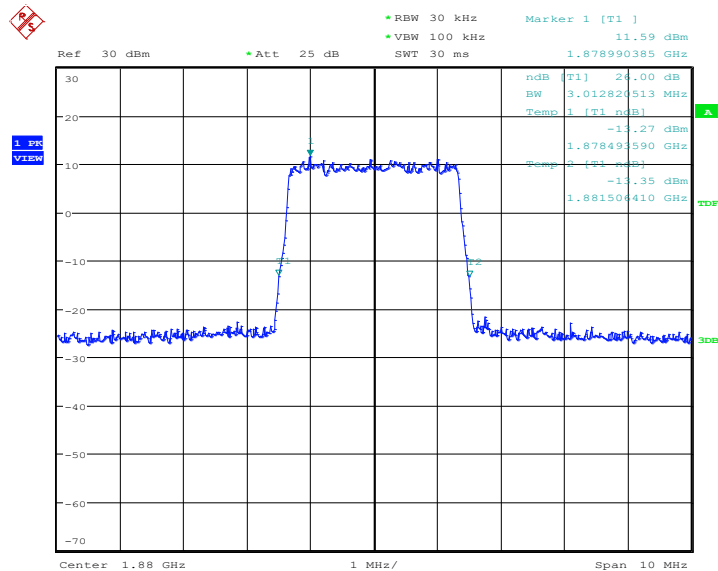
Frequency(MHz)	Emission Bandwidth (-26dBc BW)(kHz)		
1880.0	QPSK	16QAM	64QAM
	2996.79	3012.82	3044.87

LTE band 2, 3MHz Bandwidth, QPSK (-26dBc BW)



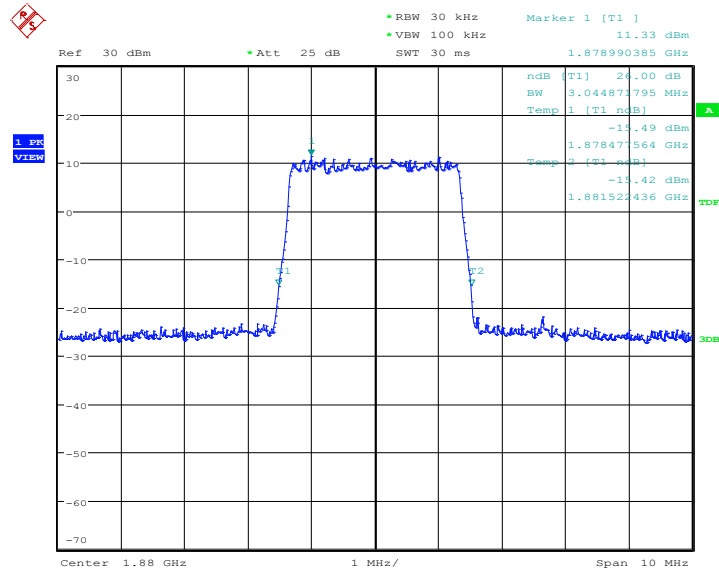
Date: 12.APR.2021 14:33:02

LTE band 2, 3MHz Bandwidth, 16QAM (-26dBc BW)



Date: 12.APR.2021 14:33:18

LTE band 2, 3MHz Bandwidth, 64QAM (-26dBc BW)

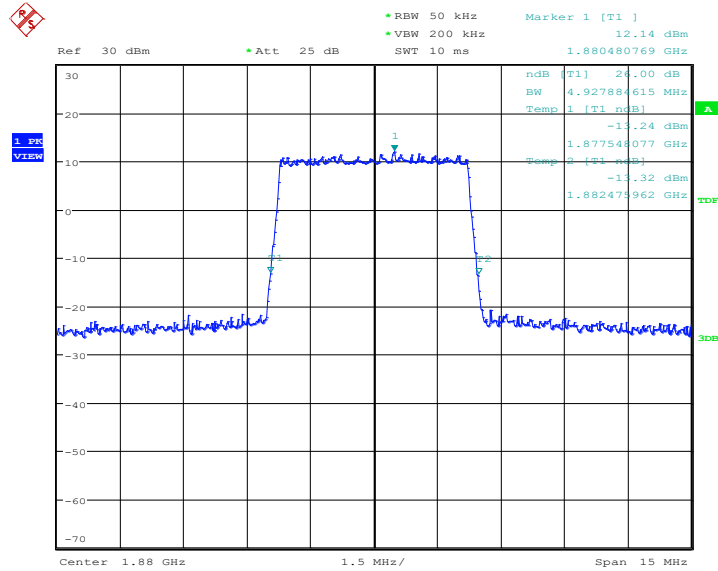


Date: 12.APR.2021 15:58:20

LTE band 2, 5MHz (-26dBc BW)

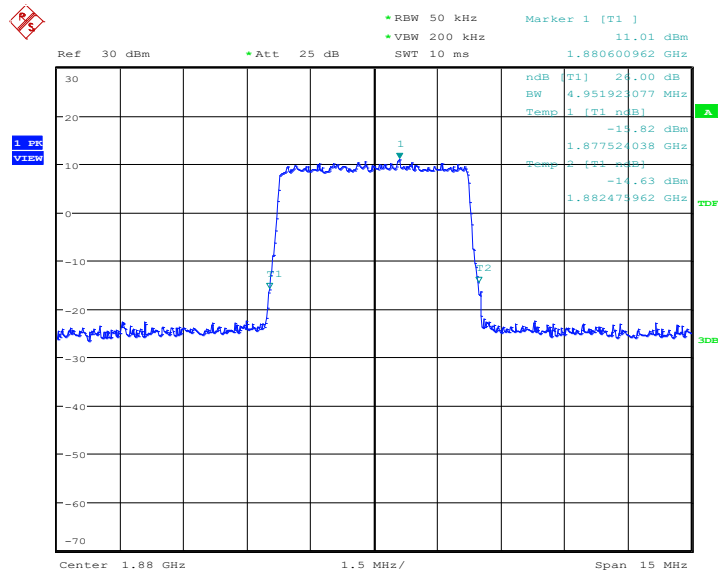
Frequency(MHz)	Emission Bandwidth (-26dBc BW)(kHz)		
1880.0	QPSK	16QAM	64QAM
	4927.88	4951.92	4951.92

LTE band 2, 5MHz Bandwidth, QPSK (-26dBc BW)



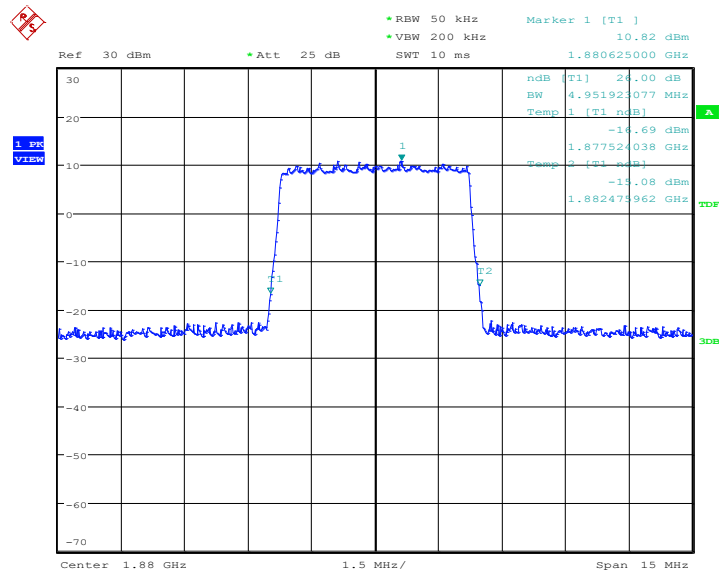
Date: 12.APR.2021 14:35:20

LTE band 2, 5MHz Bandwidth,16QAM (-26dBc BW)



Date: 12.APR.2021 14:35:35

LTE band 2, 5MHz Bandwidth,64QAM (-26dBc BW)

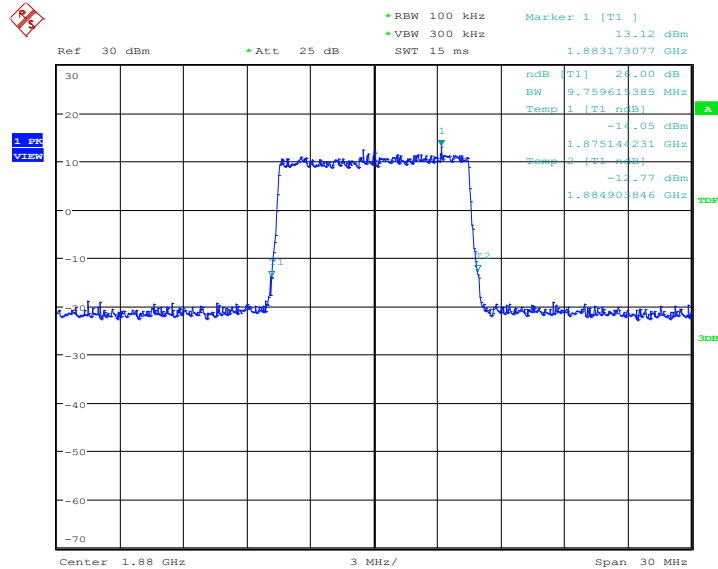


Date: 12.APR.2021 16:00:08

LTE band 2, 10MHz (-26dBc BW)

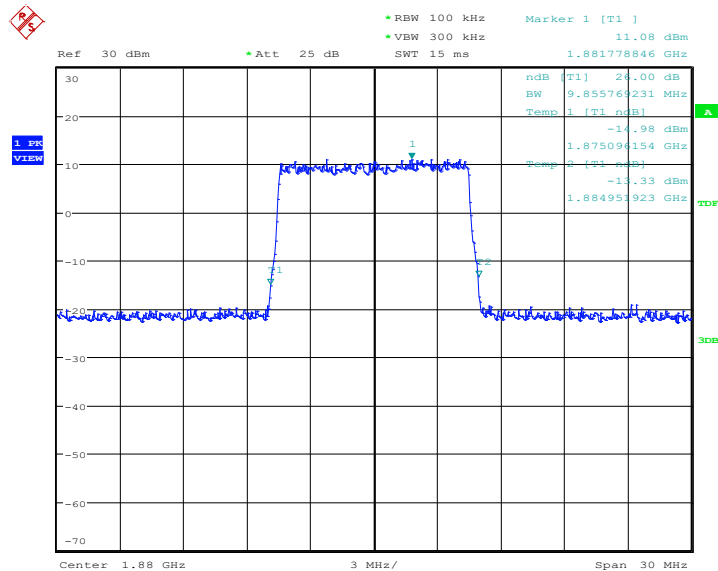
Frequency(MHz)	Emission Bandwidth (-26dBc BW)(kHz)		
1880.0	QPSK	16QAM	64QAM
	9759.62	9855.77	9855.77

LTE band 2, 10MHz Bandwidth, QPSK (-26dBc BW)



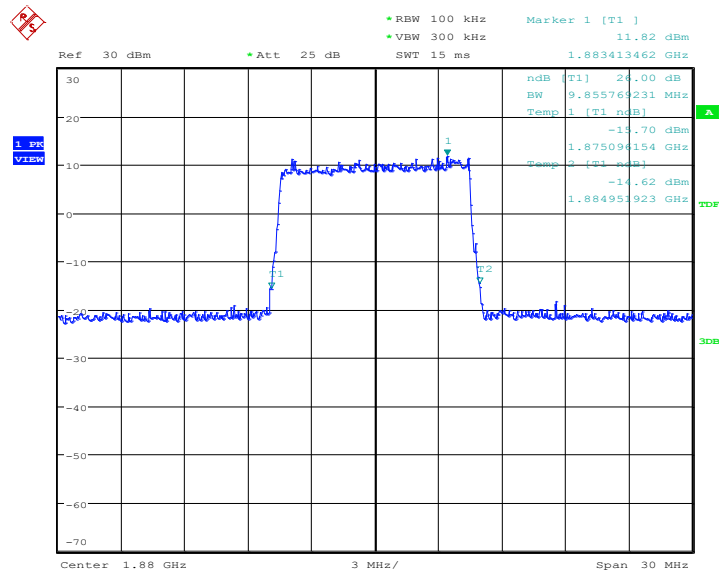
Date: 12.APR.2021 14:38:37

LTE band 2, 10MHz Bandwidth, 16QAM (-26dBc BW)



Date: 12.APR.2021 14:38:53

LTE band 2, 10MHz Bandwidth, 64QAM (-26dBc BW)

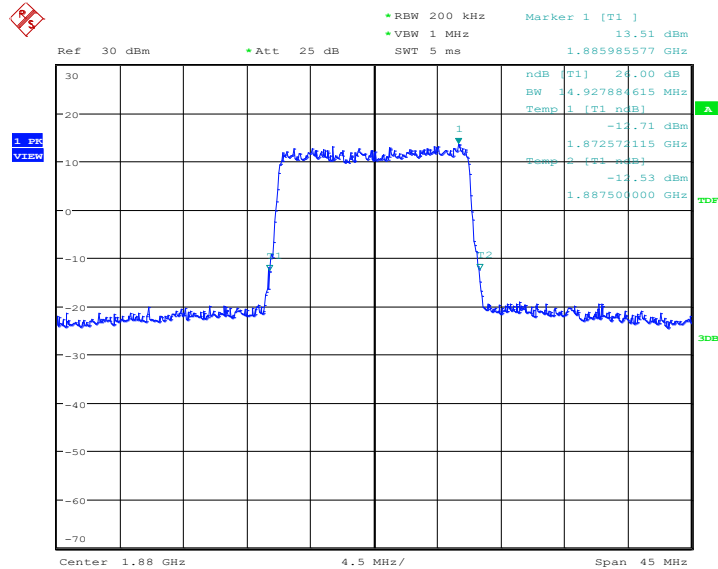


Date: 12.APR.2021 16:01:56

LTE band 2, 15MHz (-26dBc BW)

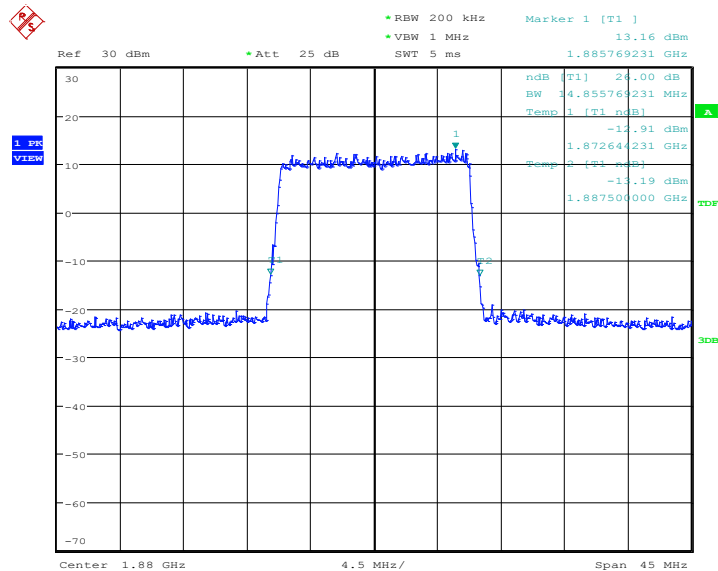
Frequency(MHz)	Emission Bandwidth (-26dBc BW)(kHz)		
1880.0	QPSK	16QAM	64QAM
	14927.88	14855.77	14855.77

LTE band 2, 15MHz Bandwidth, QPSK (-26dBc BW)



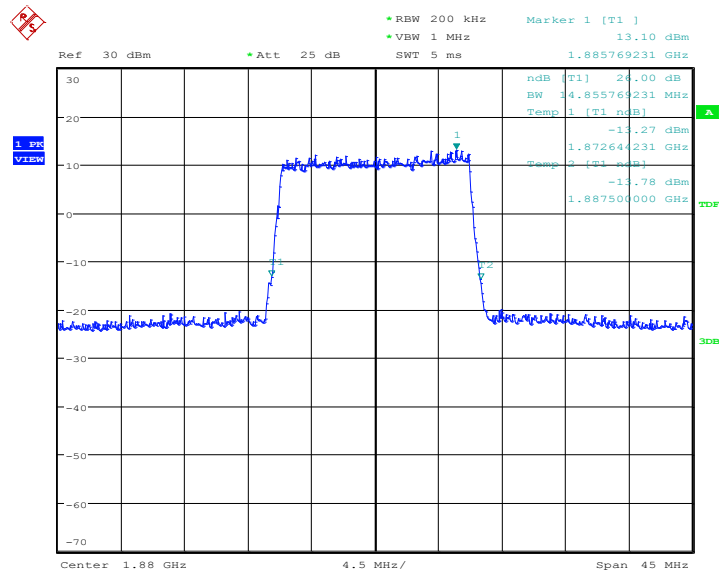
Date: 12.APR.2021 14:41:25

LTE band 2, 15MHz Bandwidth, 16QAM (-26dBc BW)



Date: 12.APR.2021 14:41:41

LTE band 2, 15MHz Bandwidth, 64QAM (-26dBc BW)

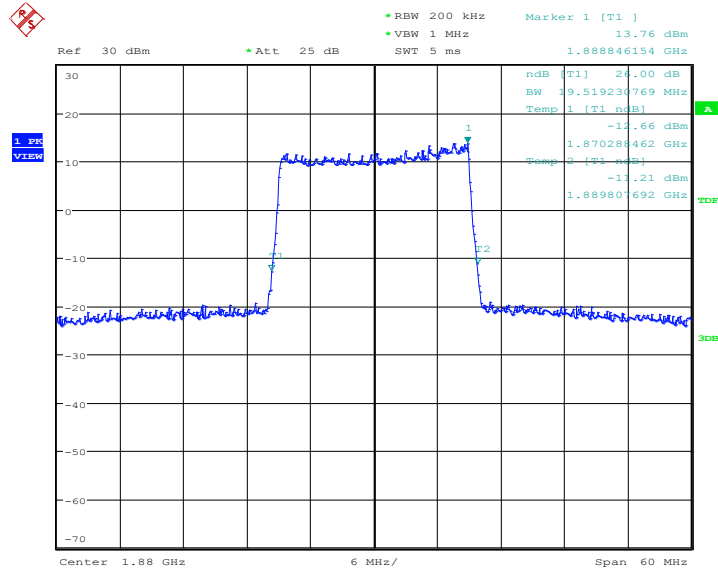


Date: 12.APR.2021 16:03:45

LTE band 2, 20MHz (-26dBc BW)

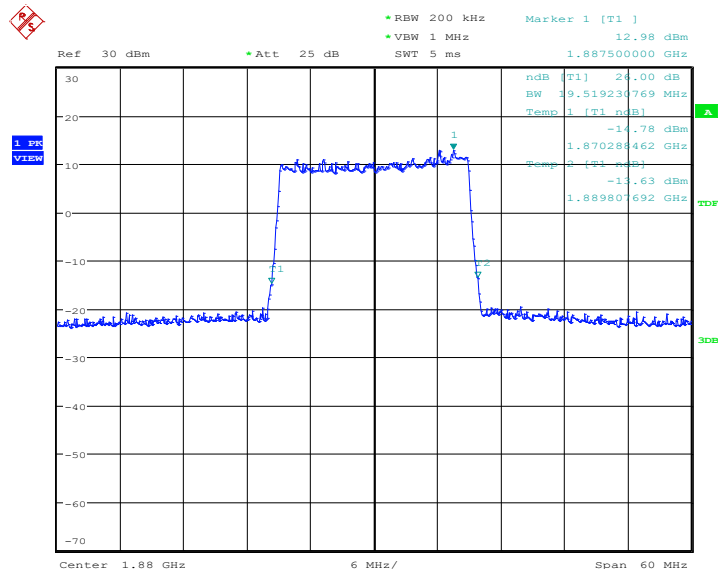
Frequency(MHz)	Emission Bandwidth (-26dBc BW)(kHz)		
1880.0	QPSK	16QAM	64QAM
	19519.23	19519.23	19519.23

LTE band 2, 20MHz Bandwidth, QPSK (-26dBc BW)



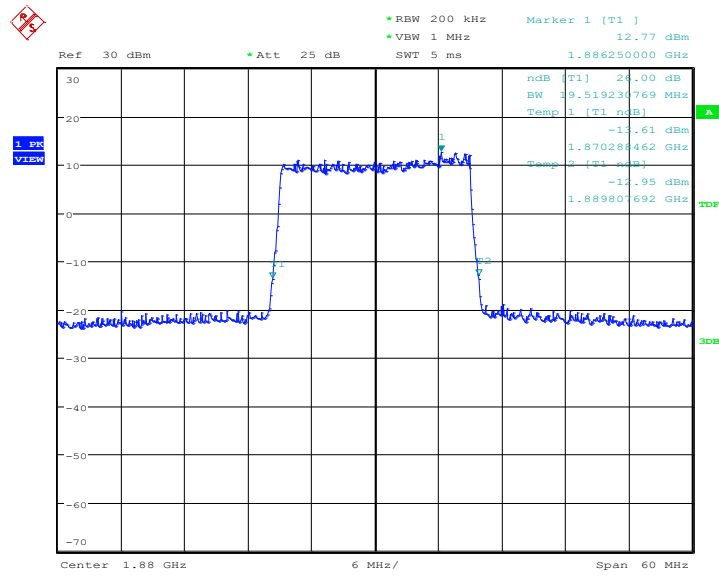
Date: 12.APR.2021 14:43:43

LTE band 2, 20MHz Bandwidth, 16QAM (-26dBc BW)



Date: 12.APR.2021 14:43:59

LTE band 2, 20MHz Bandwidth, 64QAM (-26dBc BW)

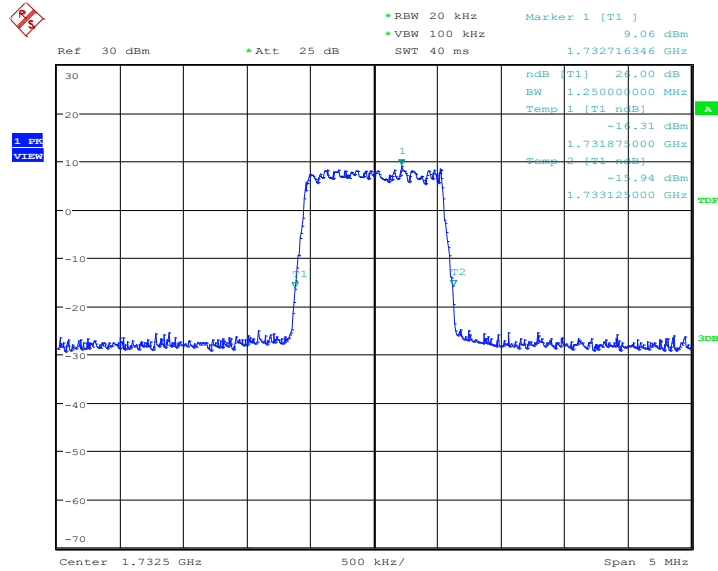


Date: 12.APR.2021 16:05:33

LTE band 4, 1.4MHz (-26dBc BW)

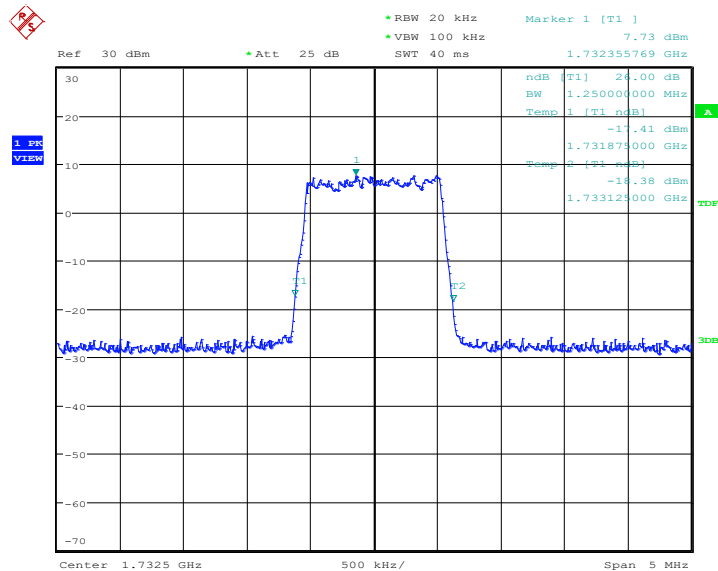
Frequency(MHz)	Emission Bandwidth (-26dBc BW)(kHz)		
1732.5	QPSK	16QAM	64QAM
	1250.00	1250.00	1241.99

LTE band 4, 1.4MHz Bandwidth, QPSK (-26dBc BW)



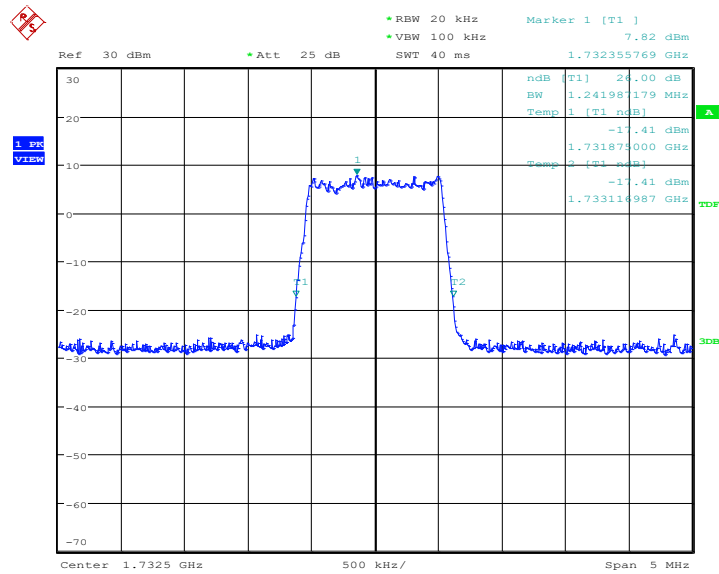
Date: 12.APR.2021 14:46:36

LTE band 4, 1.4MHz Bandwidth, 16QAM (-26dBc BW)



Date: 12.APR.2021 14:46:52

LTE band 4, 1.4MHz Bandwidth, 64QAM (-26dBc BW)

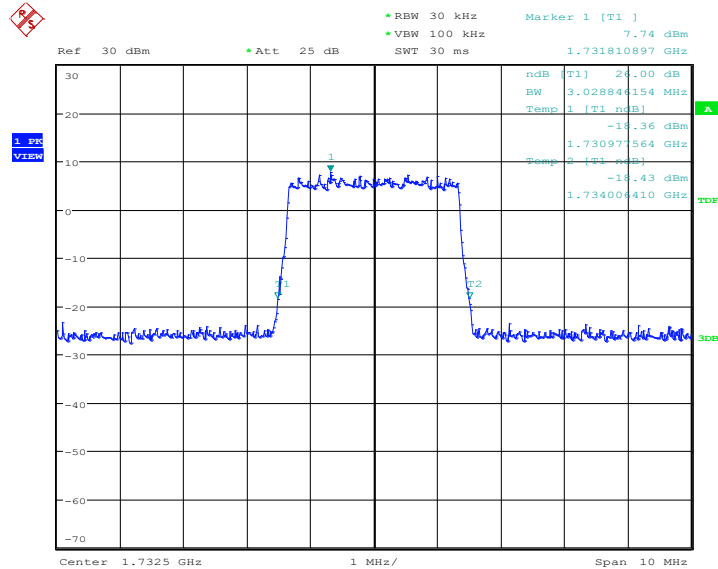


Date: 12.APR.2021 16:07:53

LTE band 4, 3MHz (-26dBc BW)

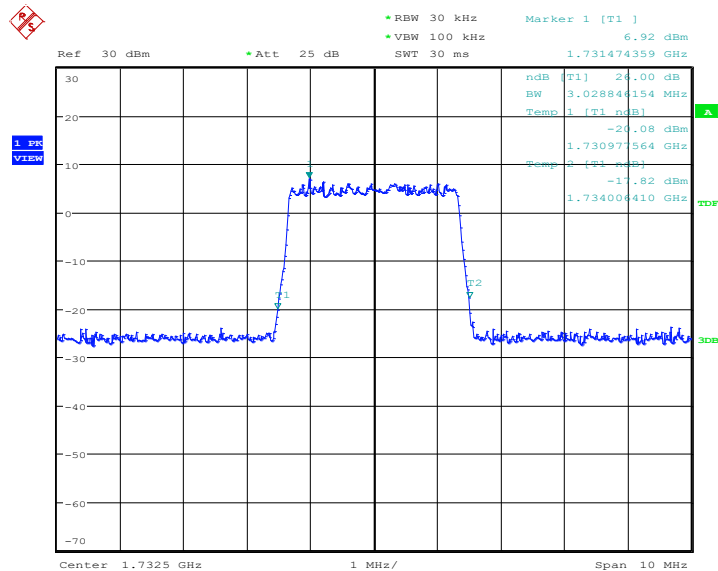
Frequency(MHz)	Emission Bandwidth (-26dBc BW)(kHz)		
1732.5	QPSK	16QAM	64QAM
	3028.85	3028.85	3044.87

LTE band 4, 3MHz Bandwidth, QPSK (-26dBc BW)



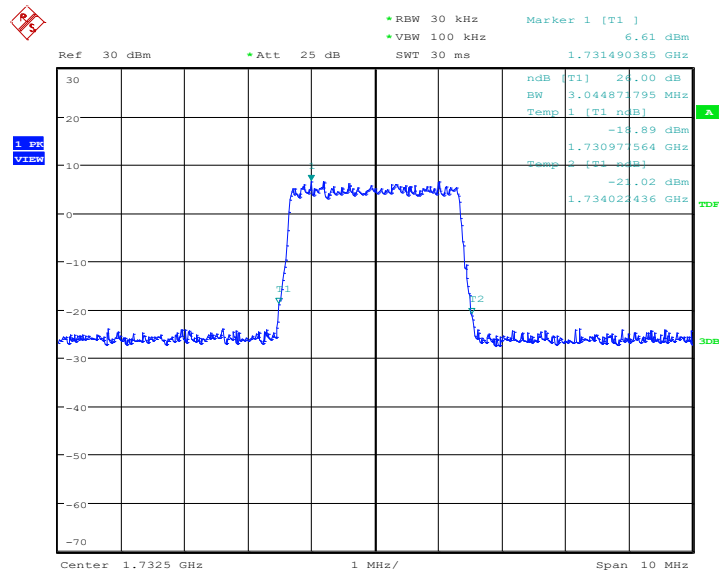
Date: 12.APR.2021 14:48:54

LTE band 4, 3MHz Bandwidth, 16QAM (-26dBc BW)



Date: 12.APR.2021 14:49:09

LTE band 4, 3MHz Bandwidth, 64QAM (-26dBc BW)

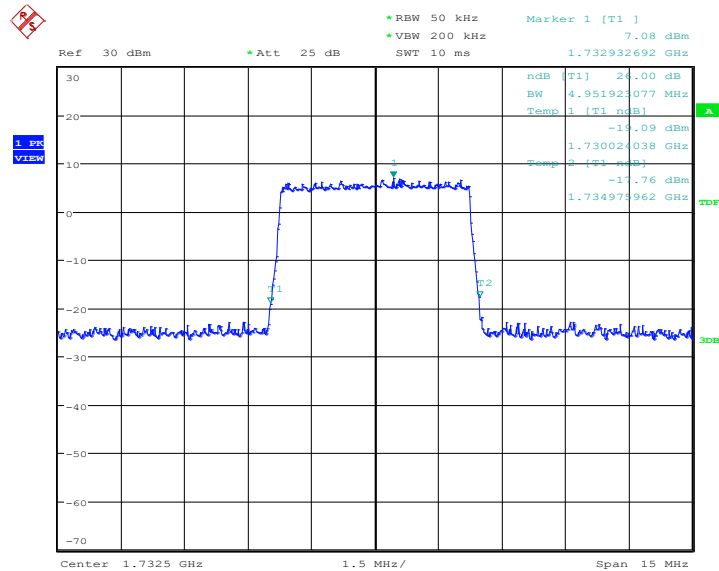


Date: 12.APR.2021 16:09:41

LTE band 4, 5MHz (-26dBc BW)

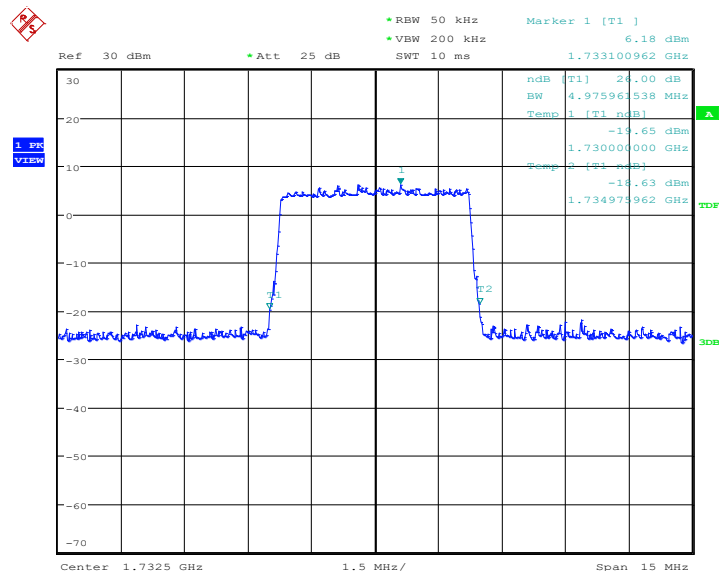
Frequency(MHz)	Emission Bandwidth (-26dBc BW)(kHz)		
1732.5	QPSK	16QAM	64QAM
	4951.92	4975.96	4975.96

LTE band 4, 5MHz Bandwidth, QPSK (-26dBc BW)



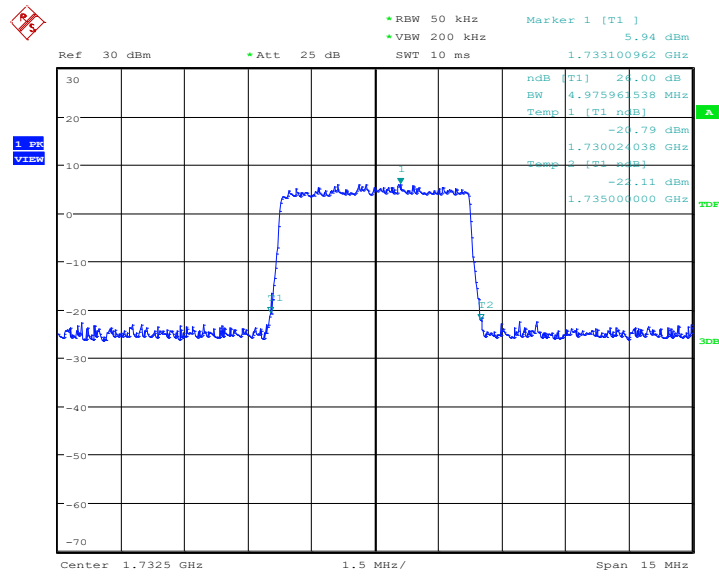
Date: 12.APR.2021 14:51:11

LTE band 4, 5MHz Bandwidth,16QAM (-26dBc BW)



Date: 12.APR.2021 14:51:27

LTE band 4, 5MHz Bandwidth,64QAM (-26dBc BW)

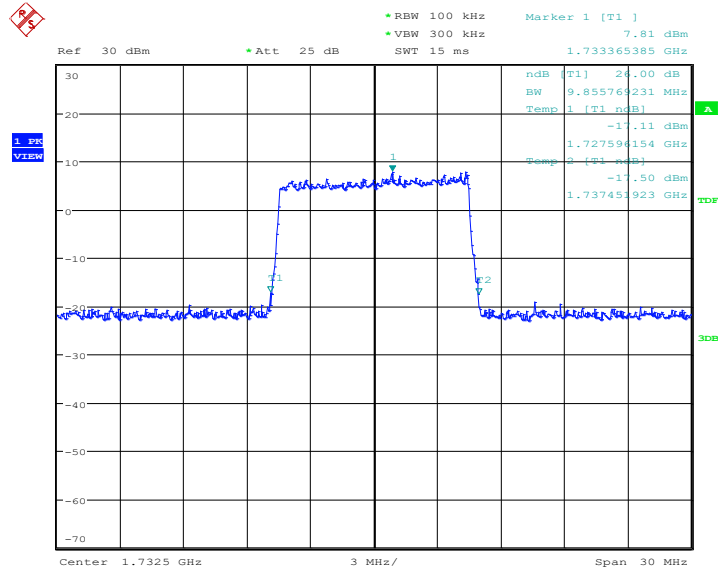


Date: 12.APR.2021 16:11:29

LTE band 4, 10MHz (-26dBc BW)

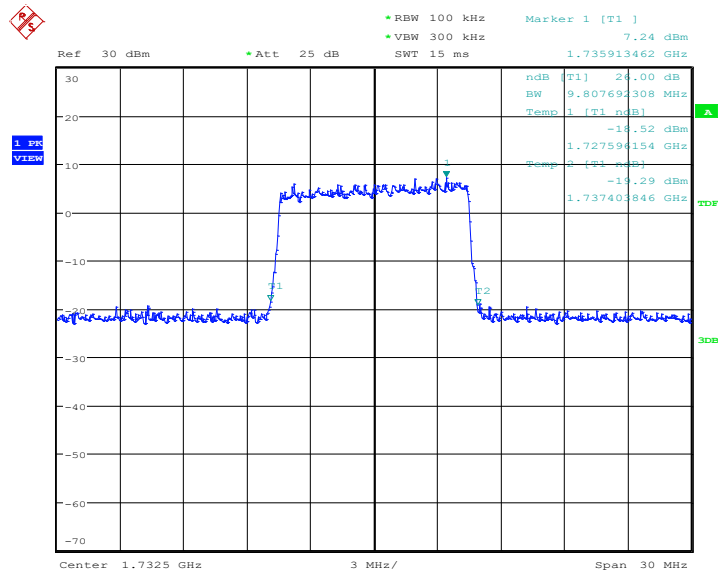
Frequency(MHz)	Emission Bandwidth (-26dBc BW)(kHz)		
1732.5	QPSK	16QAM	64QAM
	9855.77	9807.69	9855.77

LTE band 4, 10MHz Bandwidth, QPSK (-26dBc BW)



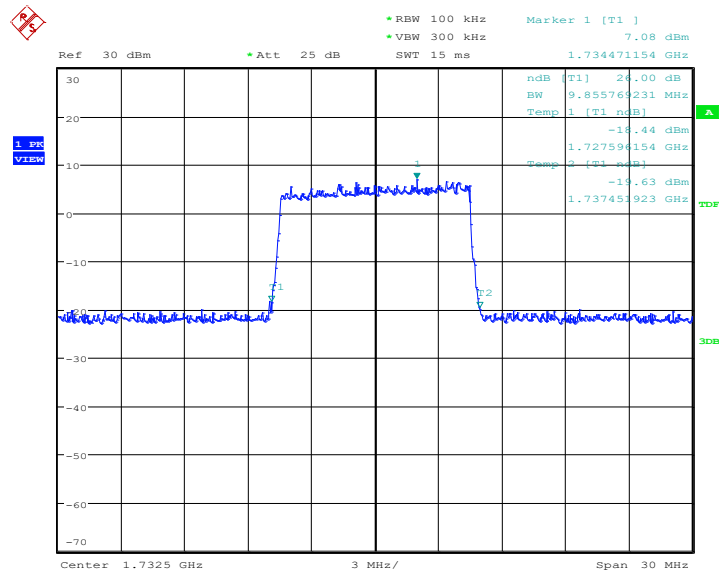
Date: 12.APR.2021 14:53:29

LTE band 4, 10MHz Bandwidth, 16QAM (-26dBc BW)



Date: 12.APR.2021 14:53:45

LTE band 4, 10MHz Bandwidth, 64QAM (-26dBc BW)

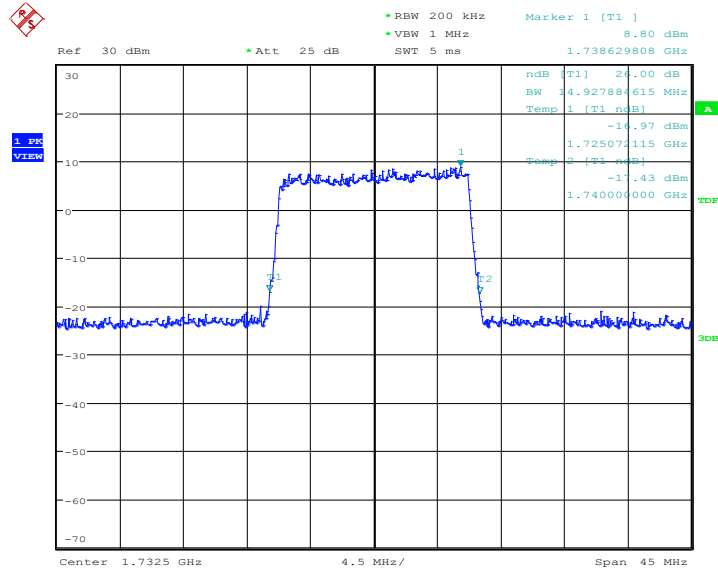


Date: 12.APR.2021 16:13:18

LTE band 4, 15MHz (-26dBc BW)

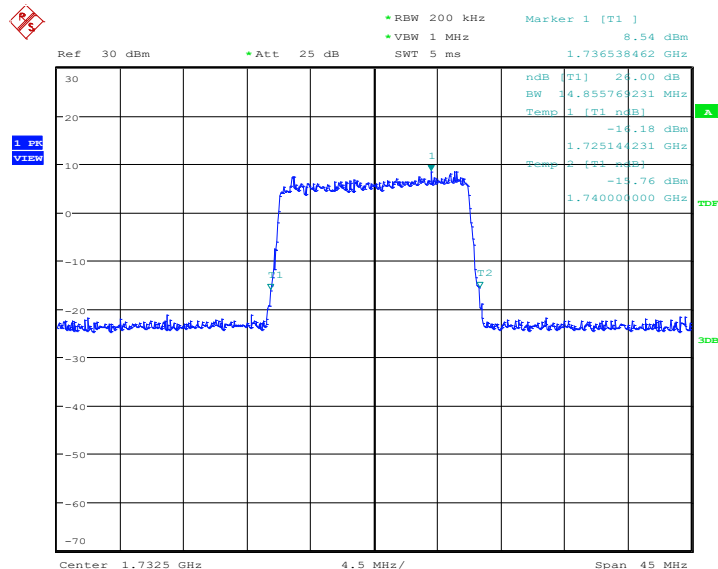
Frequency(MHz)	Emission Bandwidth (-26dBc BW)(kHz)		
1732.5	QPSK	16QAM	64QAM
	14927.88	14855.77	14783.65

LTE band 4, 15MHz Bandwidth, QPSK (-26dBc BW)



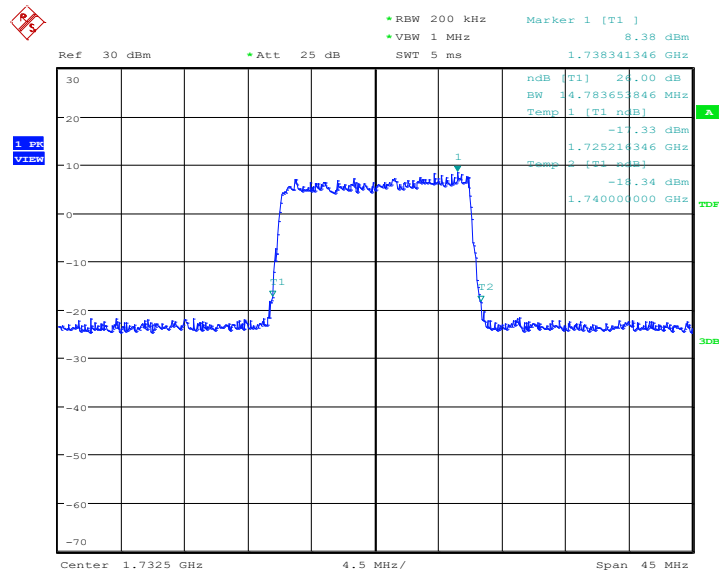
Date: 12.APR.2021 14:55:47

LTE band 4, 15MHz Bandwidth, 16QAM (-26dBc BW)



Date: 12.APR.2021 14:56:03

LTE band 4, 15MHz Bandwidth, 64QAM (-26dBc BW)

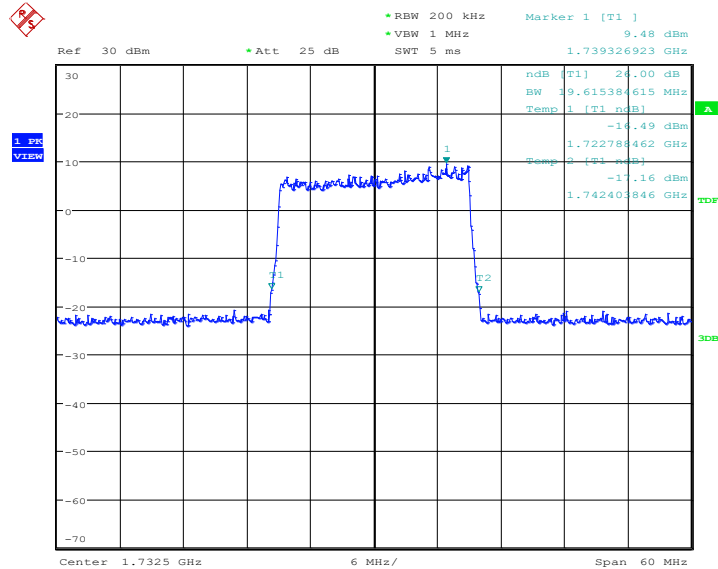


Date: 12.APR.2021 16:15:06

LTE band 4, 20MHz (-26dBc BW)

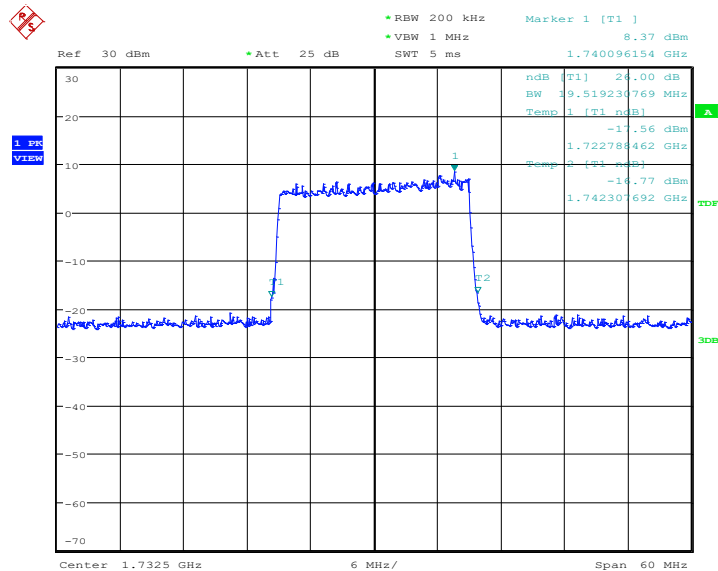
Frequency(MHz)	Emission Bandwidth (-26dBc BW)(kHz)		
1732.5	QPSK	16QAM	64QAM
	19615.38	19519.23	19519.23

LTE band 4, 20MHz Bandwidth, QPSK (-26dBc BW)



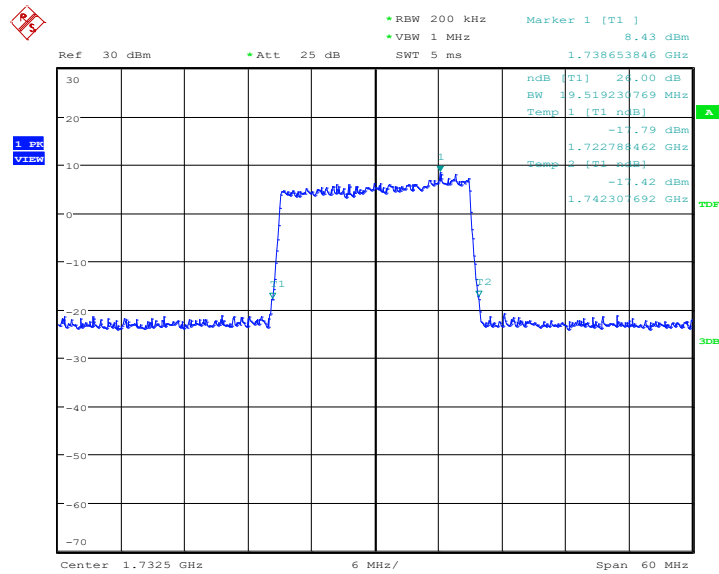
Date: 12.APR.2021 14:58:05

LTE band 4, 20MHz Bandwidth, 16QAM (-26dBc BW)



Date: 12.APR.2021 14:58:21

LTE band 4, 20MHz Bandwidth, 64QAM (-26dBc BW)

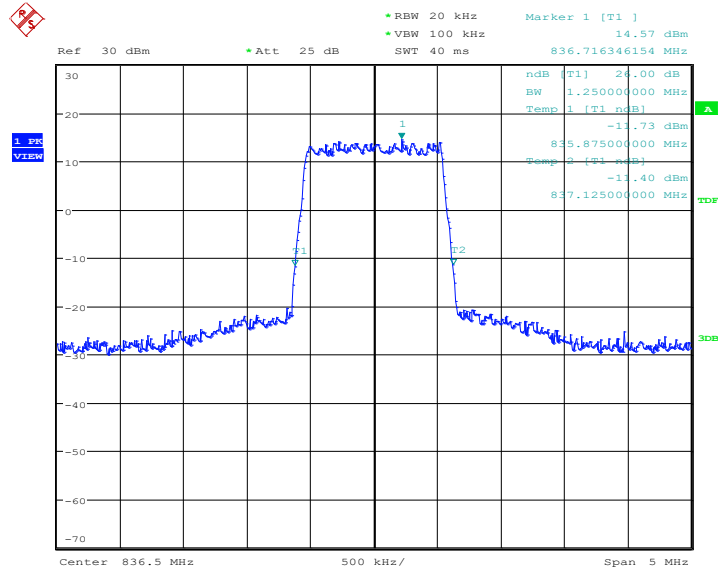


Date: 12.APR.2021 16:16:55

LTE band 5, 1.4MHz (-26dBc BW)

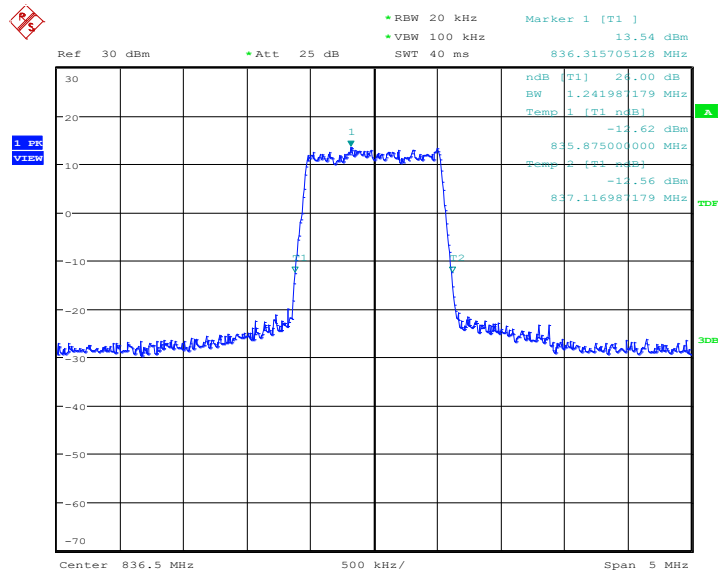
Frequency(MHz)	Emission Bandwidth (-26dBc BW)(kHz)		
836.5	QPSK	16QAM	64QAM
	1250.00	1241.99	1241.99

LTE band 5, 1.4MHz Bandwidth, QPSK (-26dBc BW)



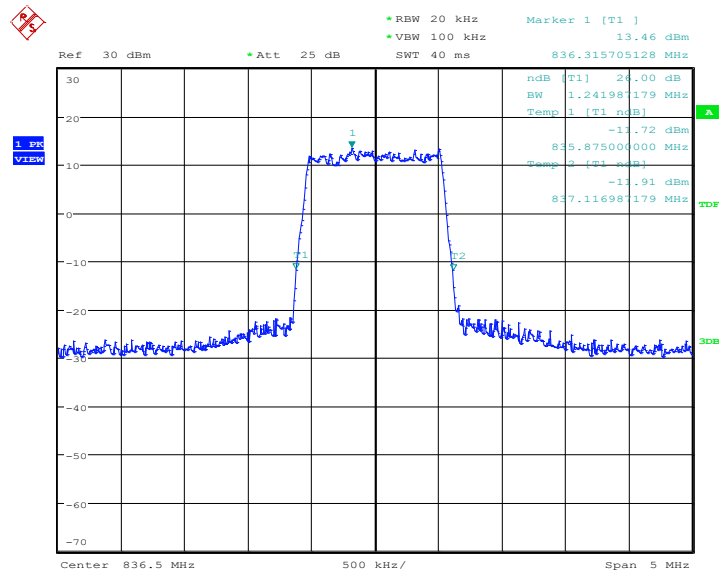
Date: 12.APR.2021 14:21:02

LTE band 5, 1.4MHz Bandwidth, 16QAM (-26dBc BW)



Date: 12.APR.2021 14:21:18

LTE band 5, 1.4MHz Bandwidth, 64QAM (-26dBc BW)

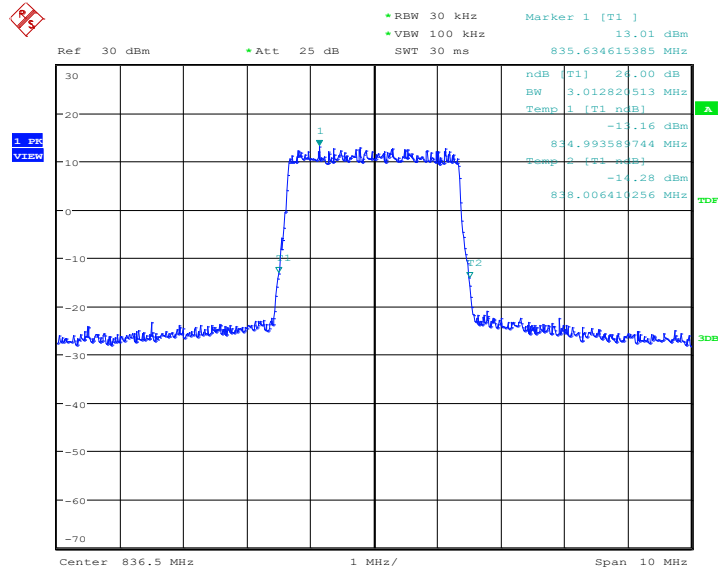


Date: 12.APR.2021 15:48:45

LTE band 5, 3MHz (-26dBc BW)

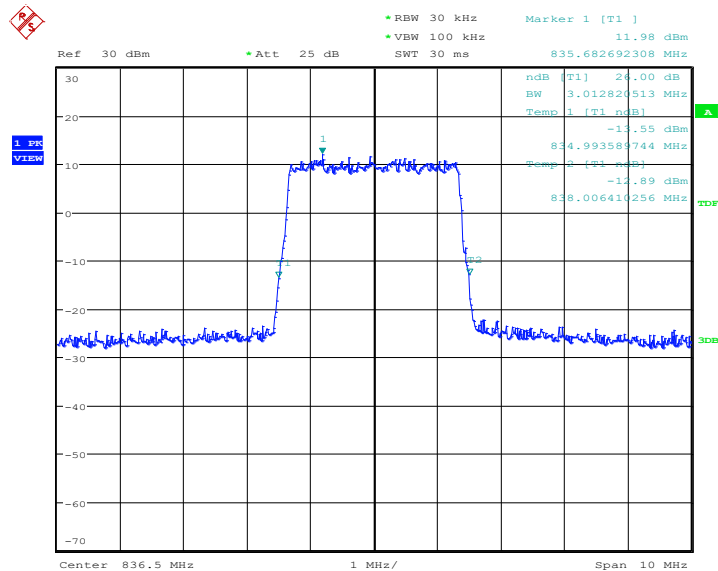
Frequency(MHz)	Emission Bandwidth (-26dBc BW)(kHz)		
836.5	QPSK	16QAM	64QAM
	3012.82	3012.82	3012.82

LTE band 5, 3MHz Bandwidth, QPSK (-26dBc BW)



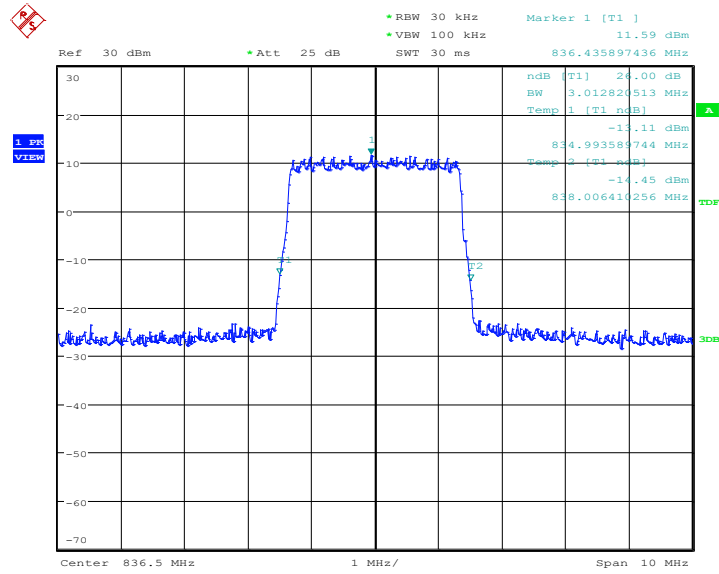
Date: 12.APR.2021 14:23:20

LTE band 5, 3MHz Bandwidth, 16QAM (-26dBc BW)



Date: 12.APR.2021 14:23:35

LTE band 5, 3MHz Bandwidth, 64QAM (-26dBc BW)

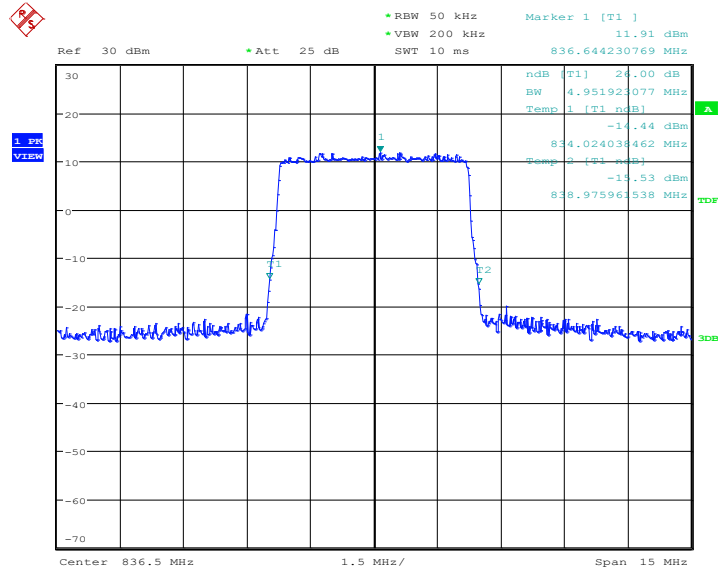


Date: 12.APR.2021 15:50:33

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

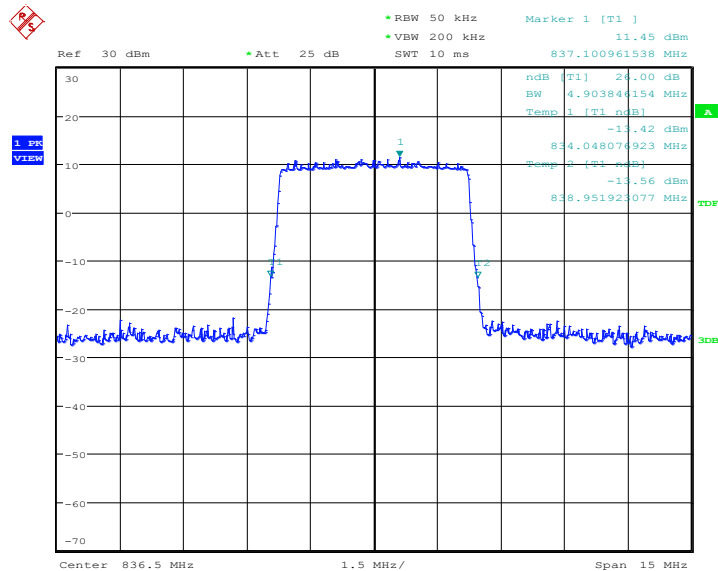
Frequency(MHz)	Emission Bandwidth (-26dBc BW)(kHz)		
836.5	QPSK	16QAM	64QAM
	4951.92	4903.85	4903.85

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



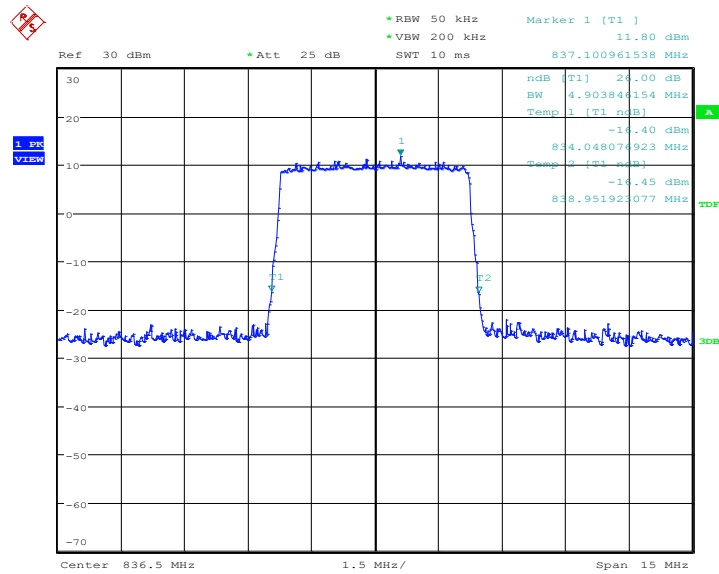
Date: 12.APR.2021 14:25:37

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



Date: 12.APR.2021 14:25:53

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

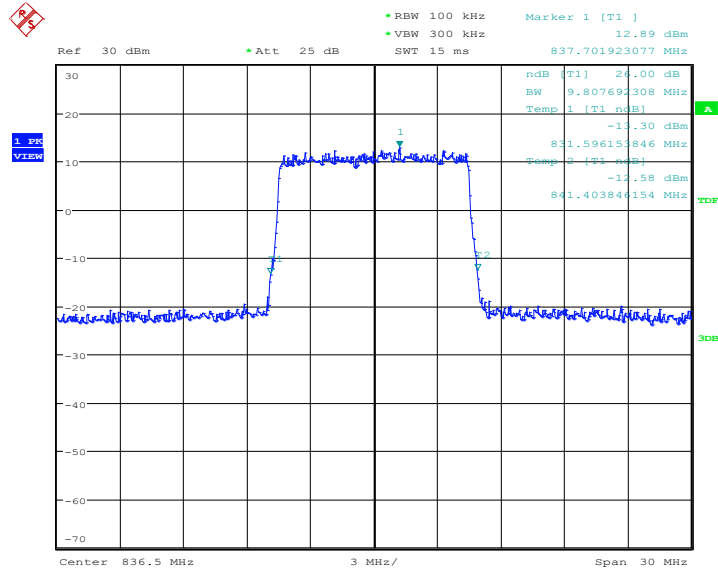


Date: 12.APR.2021 15:52:22

LTE band 5, 10MHz (-26dBc BW)

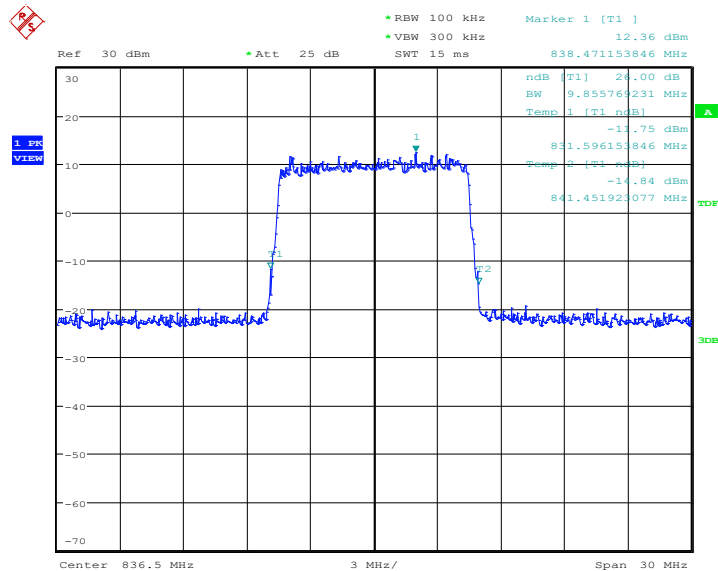
Frequency(MHz)	Emission Bandwidth (-26dBc BW)(kHz)		
836.5	QPSK	16QAM	64QAM
	9807.69	9855.77	9903.85

LTE band 5, 10MHz Bandwidth, QPSK (-26dBc BW)



Date: 12.APR.2021 14:27:55

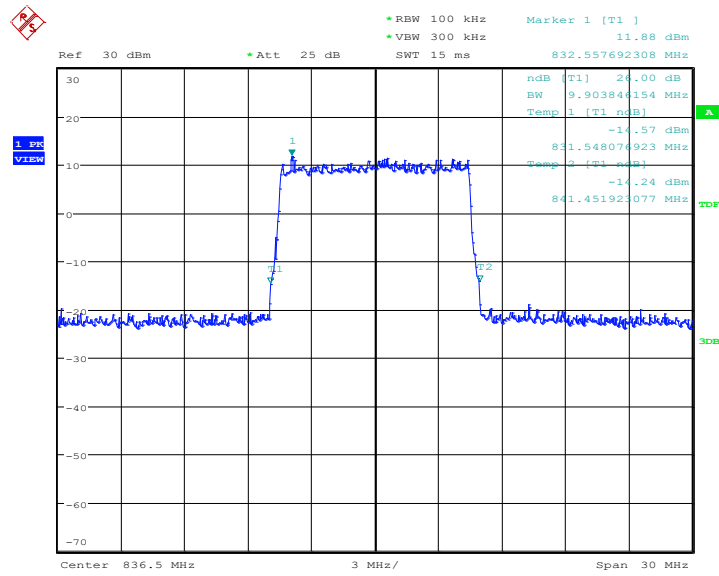
LTE band 5, 10MHz Bandwidth, 16QAM (-26dBc BW)



Date: 12.APR.2021 14:28:11



LTE band 5, 10MHz Bandwidth, 64QAM (-26dBc BW)

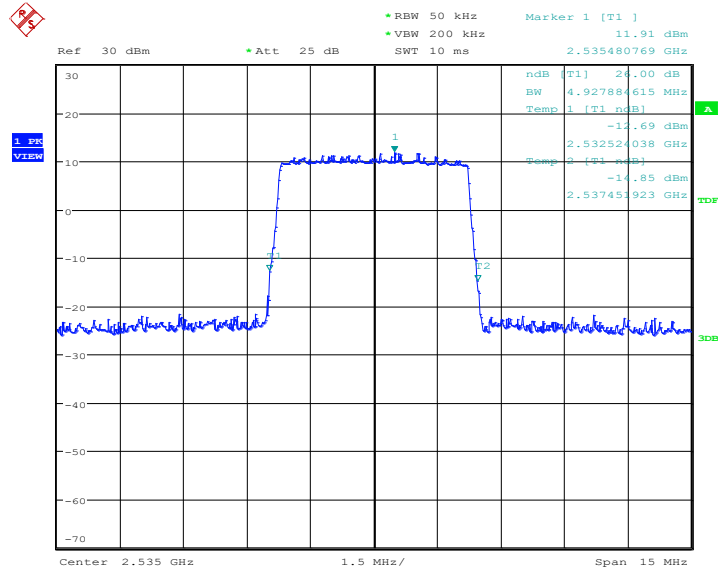


Date: 12.APR.2021 15:54:10

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

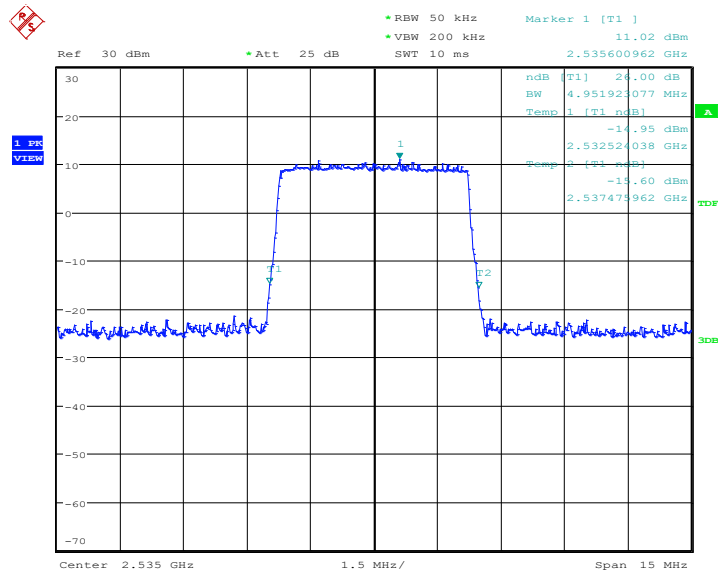
Frequency(MHz)	Emission Bandwidth (-26dBc BW)(kHz)		
2535.0	QPSK	16QAM	64QAM
	4927.88	4951.92	4903.85

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



Date: 12.APR.2021 14:07:09

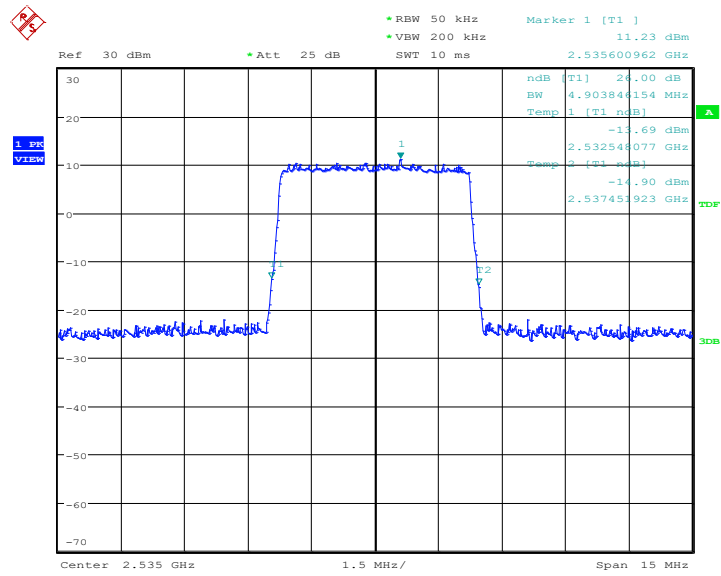
LTE band 7, 5MHz Bandwidth,16QAM (-26dBc BW)



Date: 12.APR.2021 14:07:25



LTE band 7, 5MHz Bandwidth,64QAM (-26dBc BW)

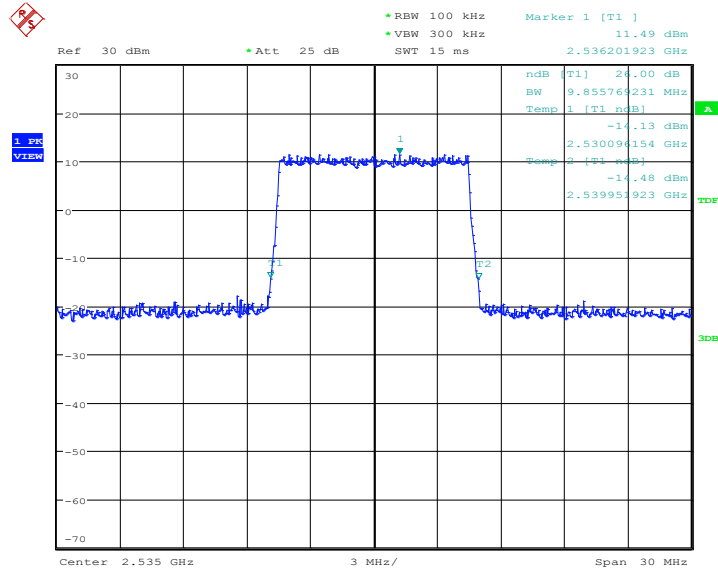


Date: 12.APR.2021 15:37:50

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

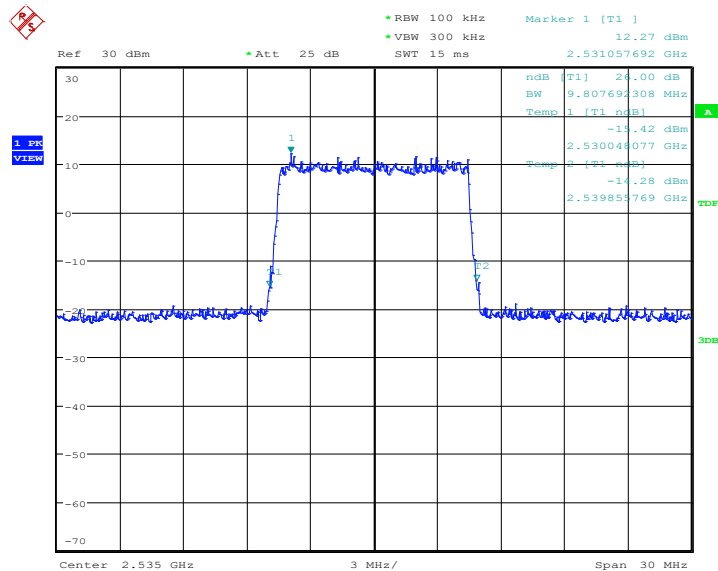
Frequency(MHz)	Emission Bandwidth (-26dBc BW)(kHz)		
2535.0	QPSK	16QAM	64QAM
	9855.77	9807.69	9711.54

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



Date: 12.APR.2021 14:09:27

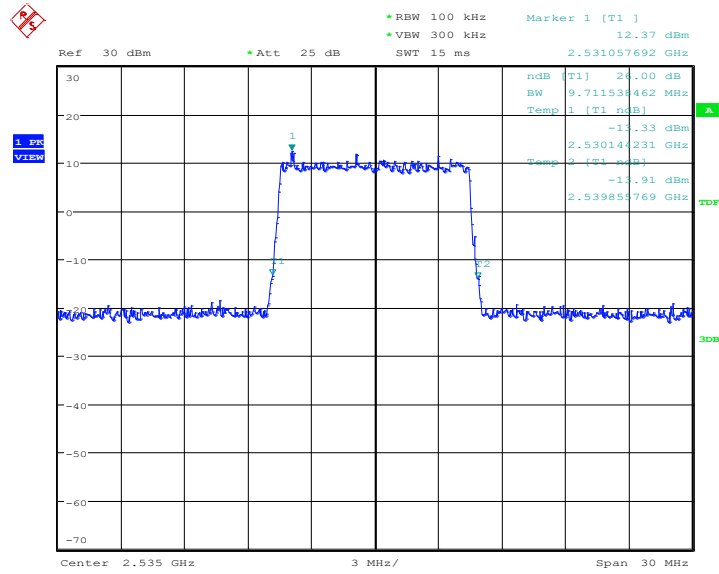
LTE band 7, 10MHz Bandwidth, 16QAM (-26dBc BW)



Date: 12.APR.2021 14:09:43



LTE band 7, 10MHz Bandwidth, 64QAM (-26dBc BW)

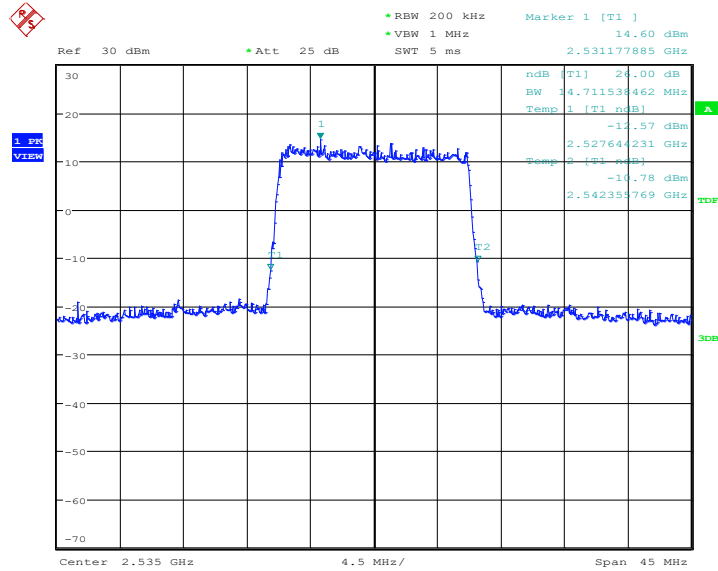


Date: 12.APR.2021 15:39:38

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

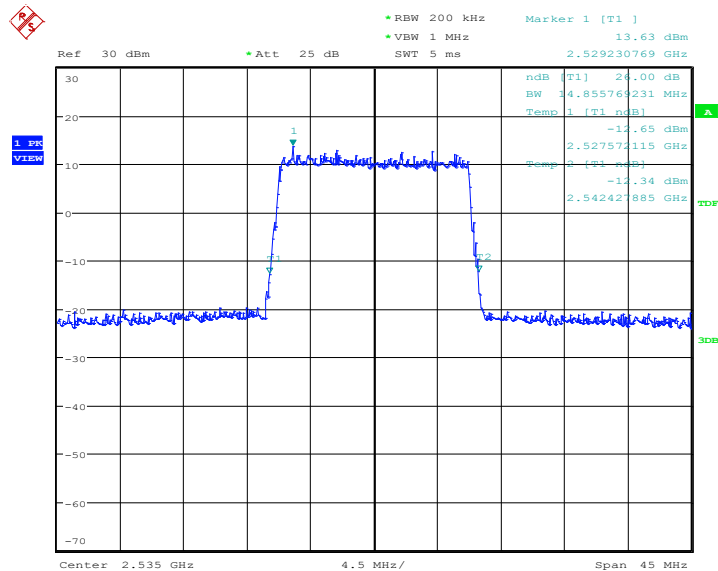
Frequency(MHz)	Emission Bandwidth (-26dBc BW)(kHz)		
2535.0	QPSK	16QAM	64QAM
	14711.54	14855.77	14855.77

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



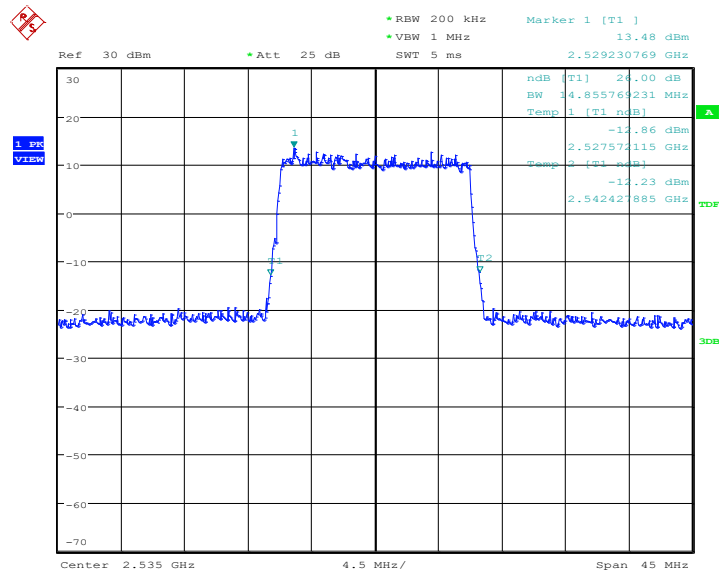
Date: 12.APR.2021 14:11:45

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



Date: 12.APR.2021 14:12:00

LTE band 7, 15MHz Bandwidth, 64QAM (-26dBc BW)

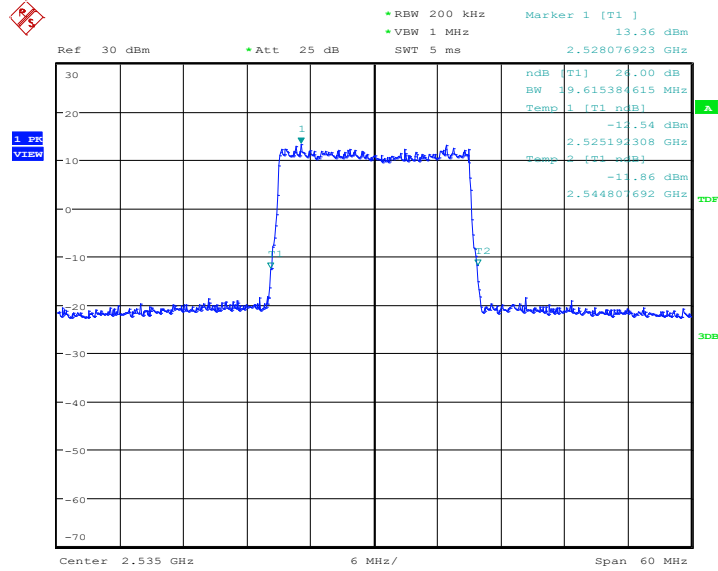


Date: 12.APR.2021 15:41:26

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

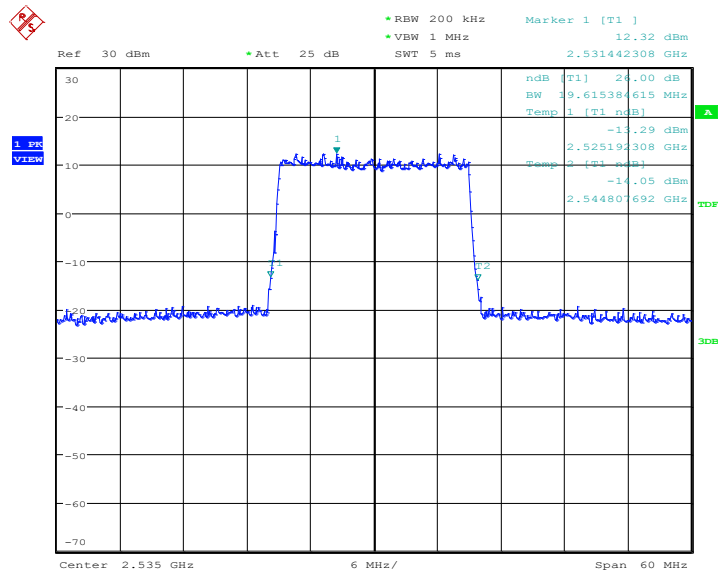
Frequency(MHz)	Emission Bandwidth (-26dBc BW)(kHz)		
2535.0	QPSK	16QAM	64QAM
	19615.38	19615.38	19711.54

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



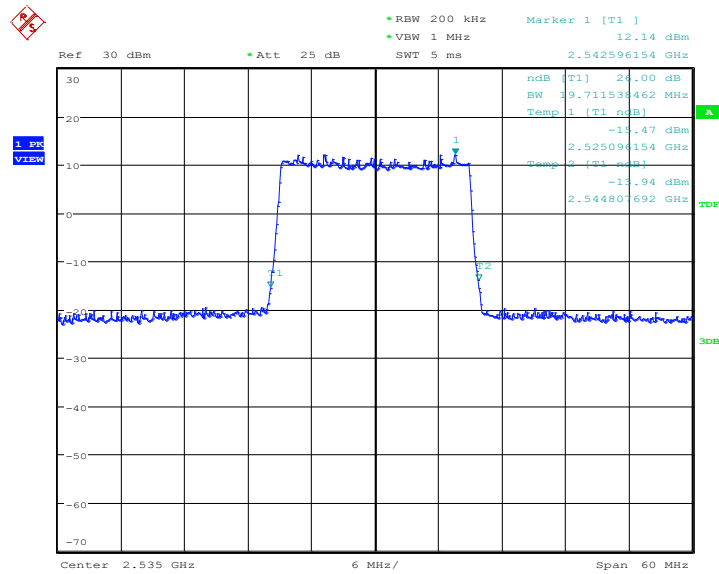
Date: 12.APR.2021 14:14:03

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



Date: 12.APR.2021 14:14:18

LTE band 7, 20MHz Bandwidth, 64QAM (-26dBc BW)



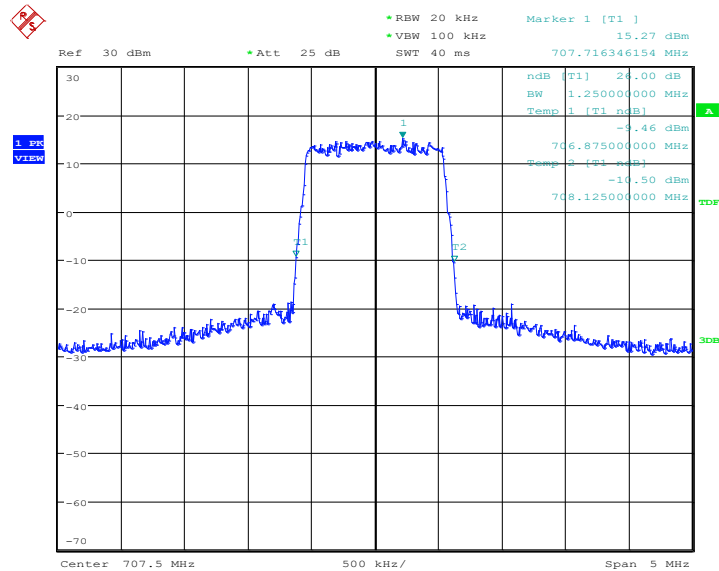
Date: 12.APR.2021 15:43:15

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

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

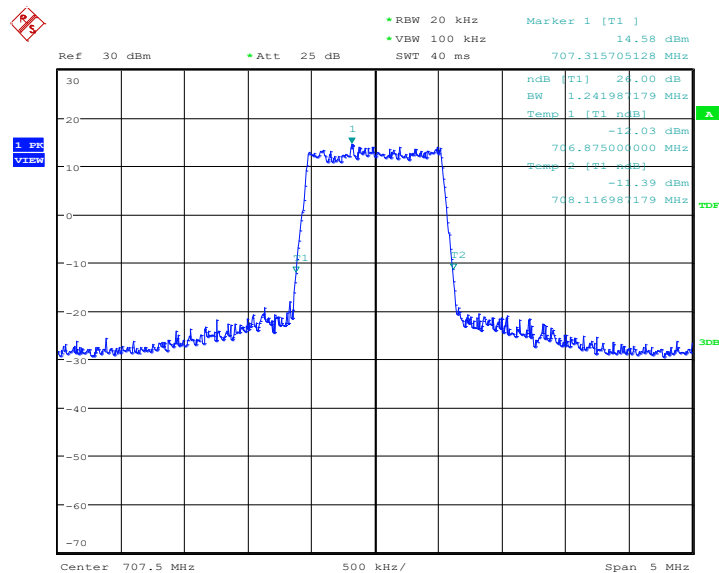
Frequency(MHz)	Emission Bandwidth (-26dBc BW)(kHz)		
707.5	QPSK	16QAM	64QAM
	1250.00	1241.99	1241.99

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



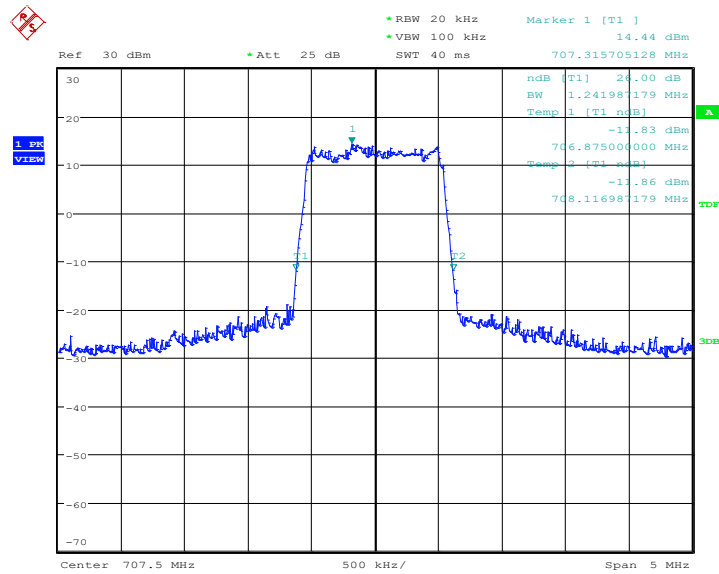
Date: 12.APR.2021 15:00:27

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



Date: 12.APR.2021 15:00:43

LTE band 12, 1.4MHz Bandwidth, 64QAM (-26dBc BW)

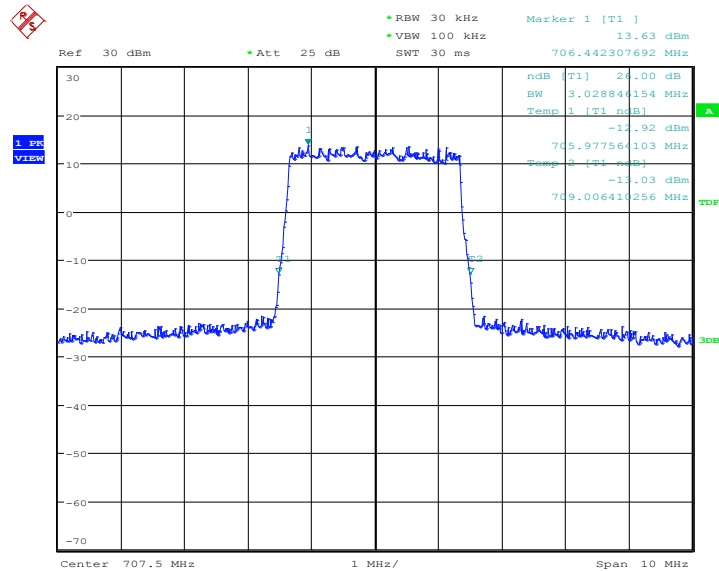


Date: 12.APR.2021 16:18:46

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

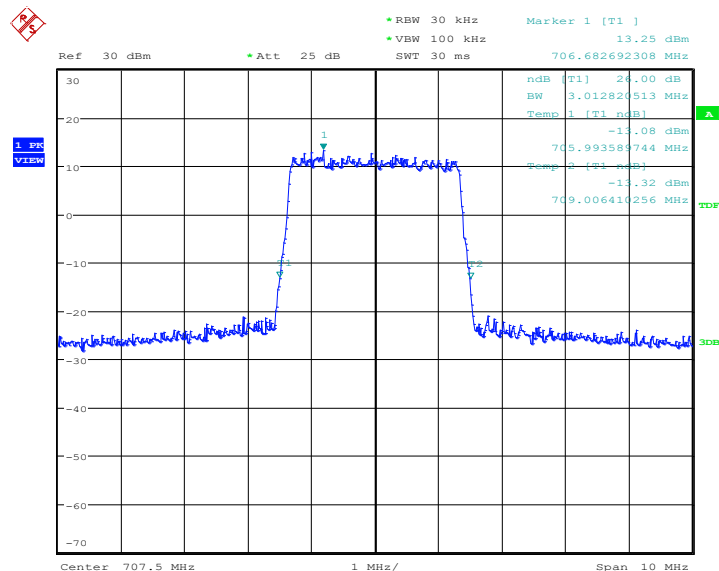
Frequency(MHz)	Emission Bandwidth (-26dBc BW)(kHz)		
707.5	QPSK	16QAM	64QAM
	3028.85	3012.82	2996.79

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



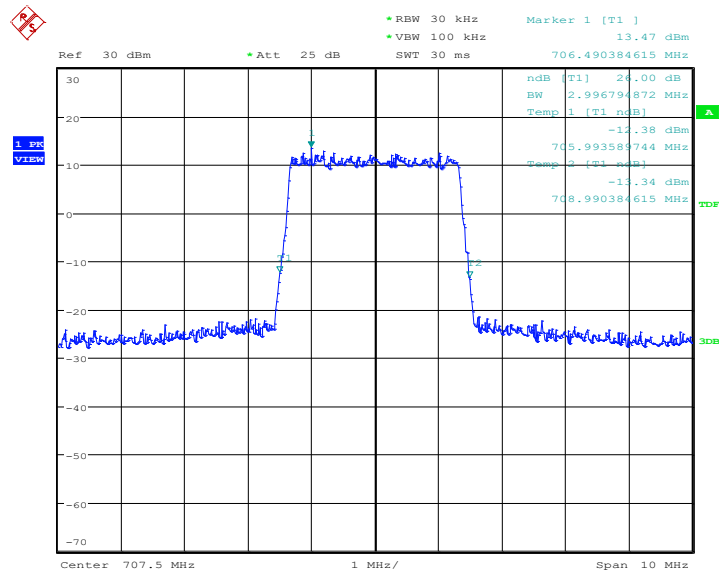
Date: 12.APR.2021 15:02:45

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



Date: 12.APR.2021 15:03:00

LTE band 12, 3MHz Bandwidth, 64QAM (-26dBc BW)

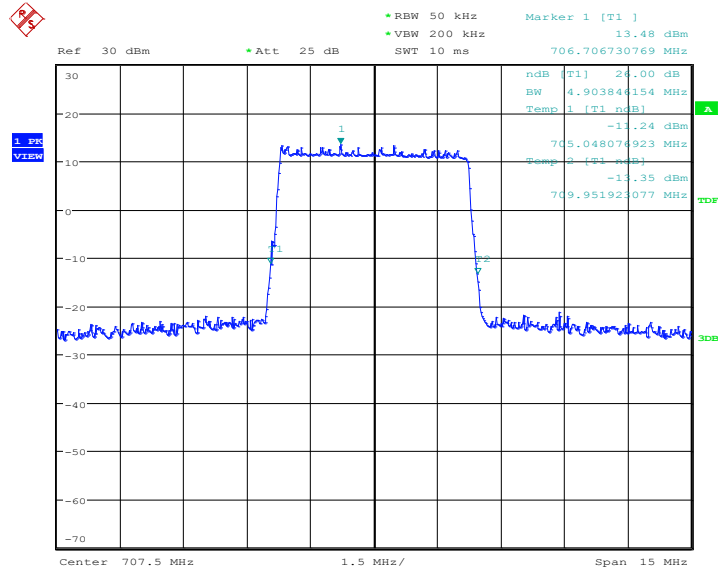


Date: 12.APR.2021 16:20:35

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

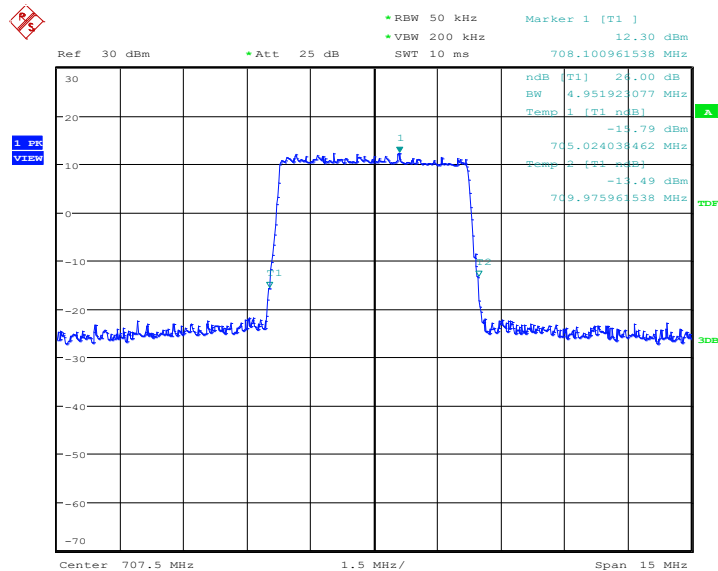
Frequency(MHz)	Emission Bandwidth (-26dBc BW)(kHz)		
707.5	QPSK	16QAM	64QAM
	4903.85	4951.92	4951.92

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



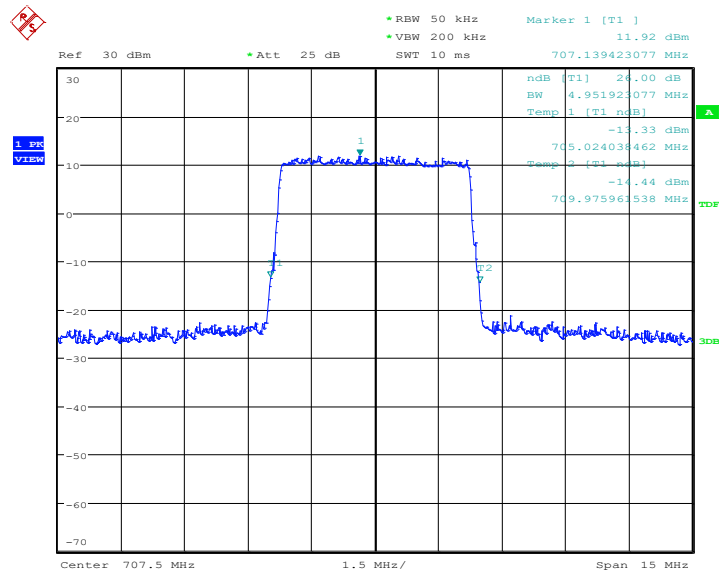
Date: 12.APR.2021 15:05:02

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



Date: 12.APR.2021 15:05:18

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

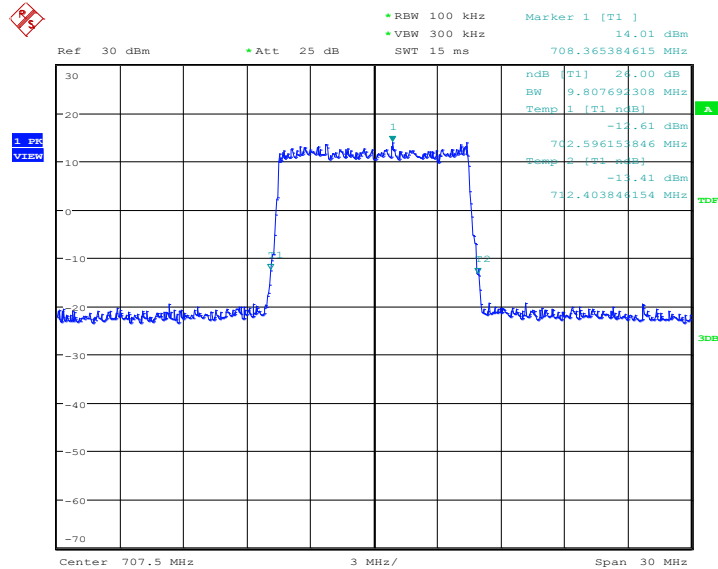


Date: 12.APR.2021 16:22:23

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

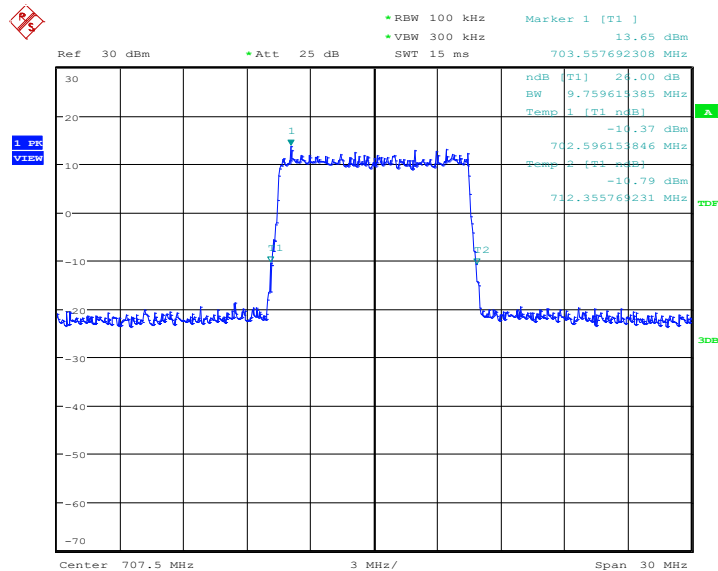
Frequency(MHz)	Emission Bandwidth (-26dBc BW)(kHz)		
707.5	QPSK	16QAM	64QAM
	9807.69	9759.62	9807.69

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



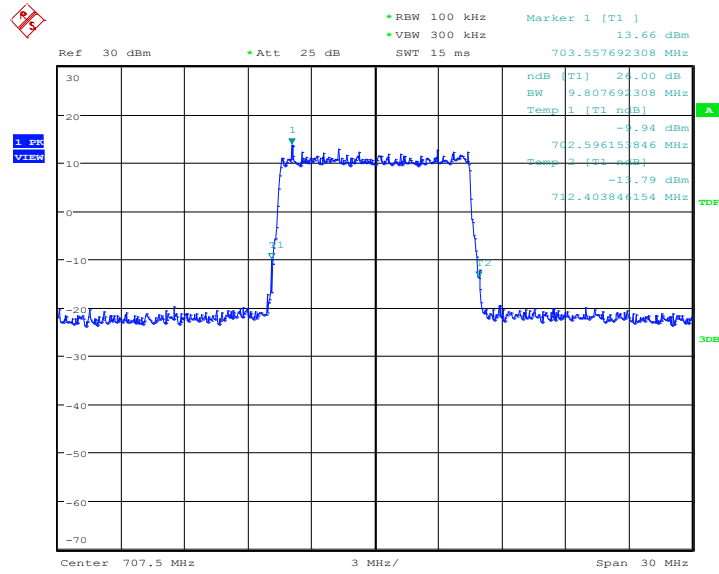
Date: 12.APR.2021 15:07:20

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



Date: 12.APR.2021 15:07:36

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

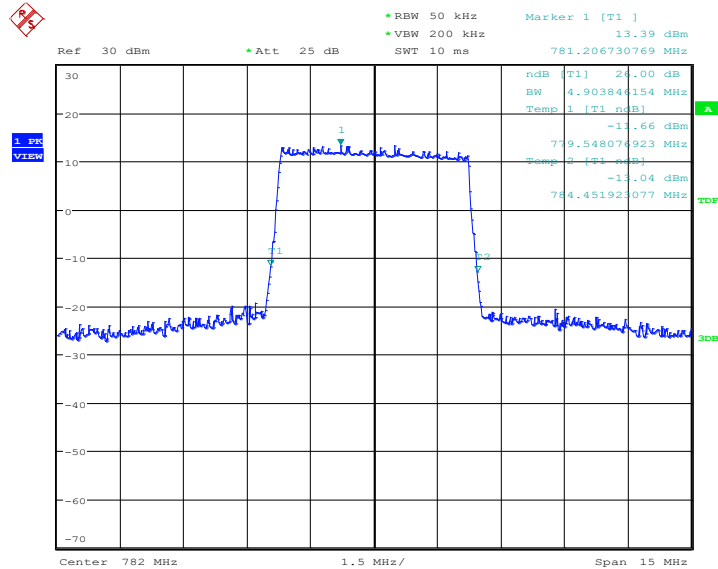


Date: 12.APR.2021 16:24:11

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

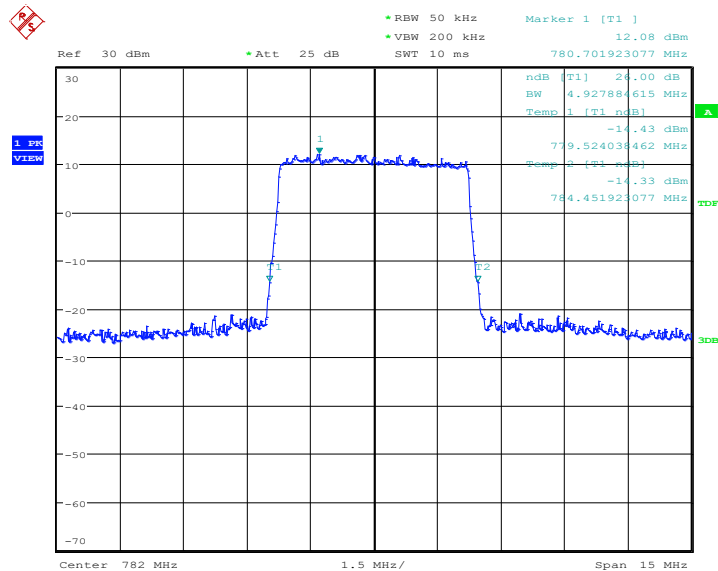
Frequency(MHz)	Emission Bandwidth (-26dBc BW)(kHz)		
782.0	QPSK	16QAM	64QAM
	4903.85	4927.88	4903.85

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



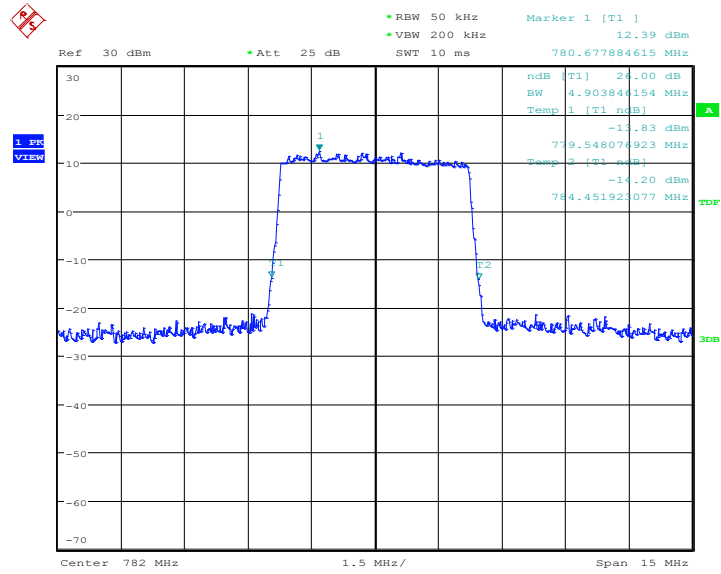
Date: 12.APR.2021 14:16:25

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



Date: 12.APR.2021 14:16:41

LTE band 13, 5MHz Bandwidth, 64QAM (-26dBc BW)

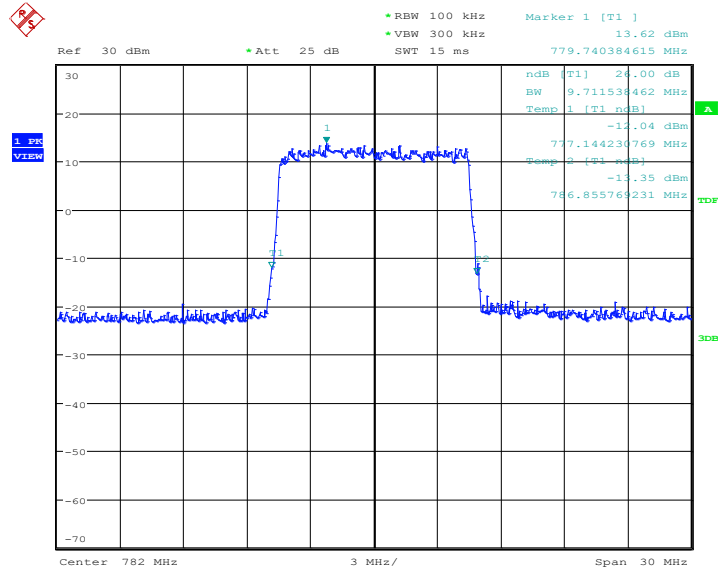


Date: 12.APR.2021 15:45:07

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

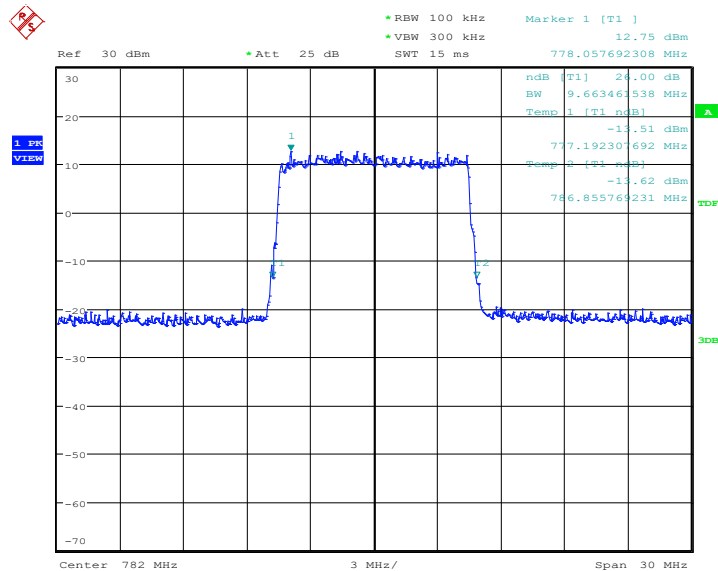
Frequency(MHz)	Emission Bandwidth (-26dBc BW)(kHz)		
782.0	QPSK	16QAM	64QAM
	9711.54	9663.46	9759.62

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



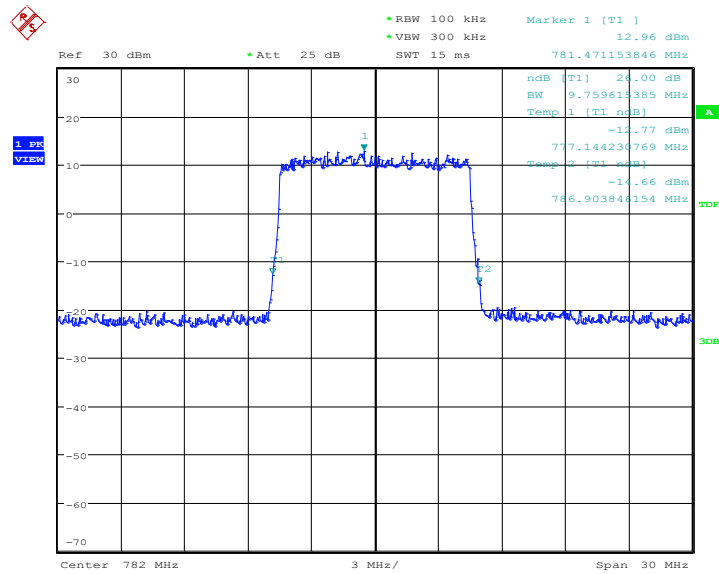
Date: 12.APR.2021 14:18:43

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



Date: 12.APR.2021 14:18:58

LTE band 13, 10MHz Bandwidth, 64QAM (-26dBc BW)

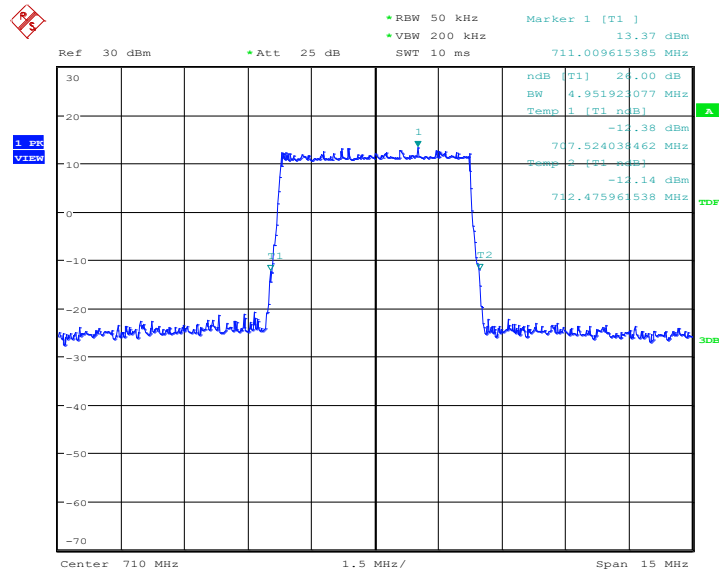


Date: 12.APR.2021 15:46:56

LTE band 17, 5MHz (-26dBc BW)

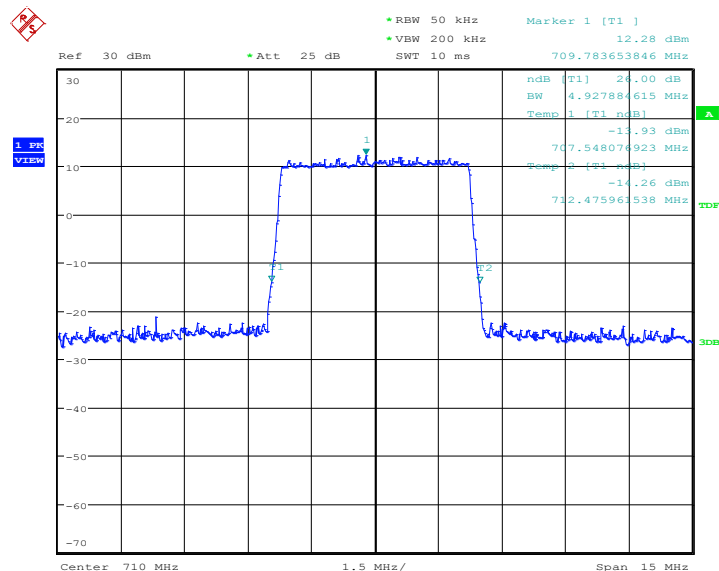
Frequency(MHz)	Emission Bandwidth (-26dBc BW)(kHz)		
710.0	QPSK	16QAM	64QAM
	4951.92	4927.88	4927.88

LTE band 17, 5MHz Bandwidth, QPSK (-26dBc BW)



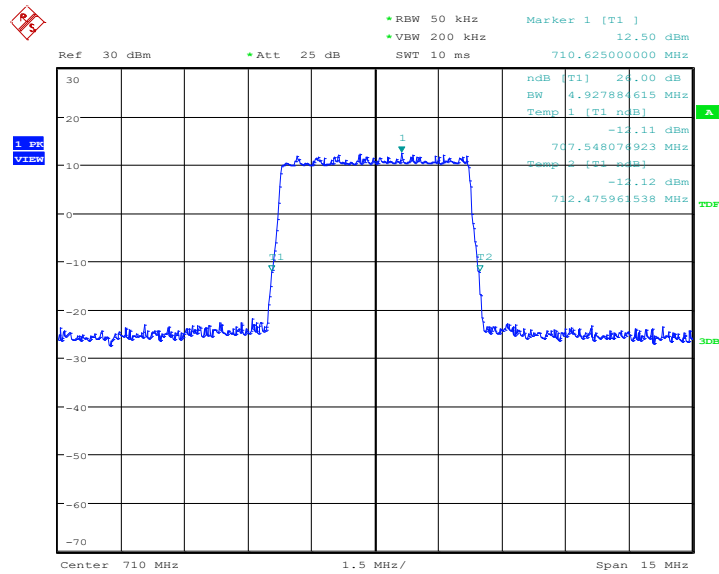
Date: 12.APR.2021 15:09:42

LTE band 17, 5MHz Bandwidth,16QAM (-26dBc BW)



Date: 12.APR.2021 15:09:57

LTE band 17, 5MHz Bandwidth,64QAM (-26dBc BW)

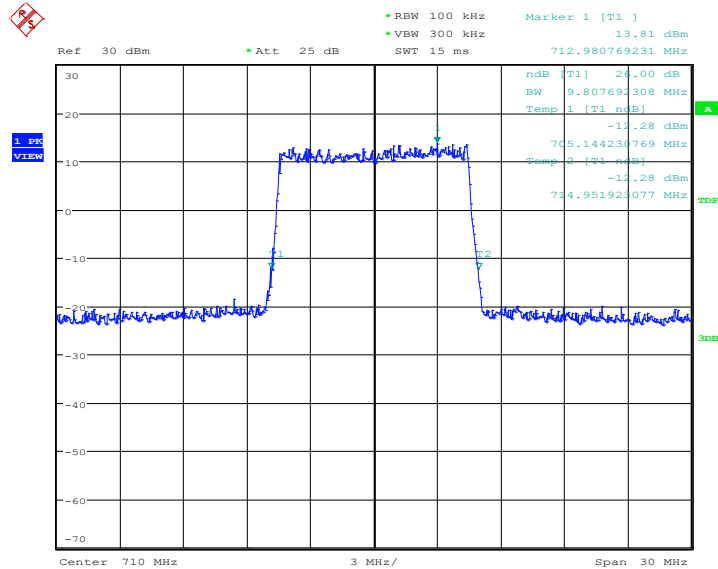


Date: 12.APR.2021 16:26:03

LTE band 17, 10MHz (-26dBc BW)

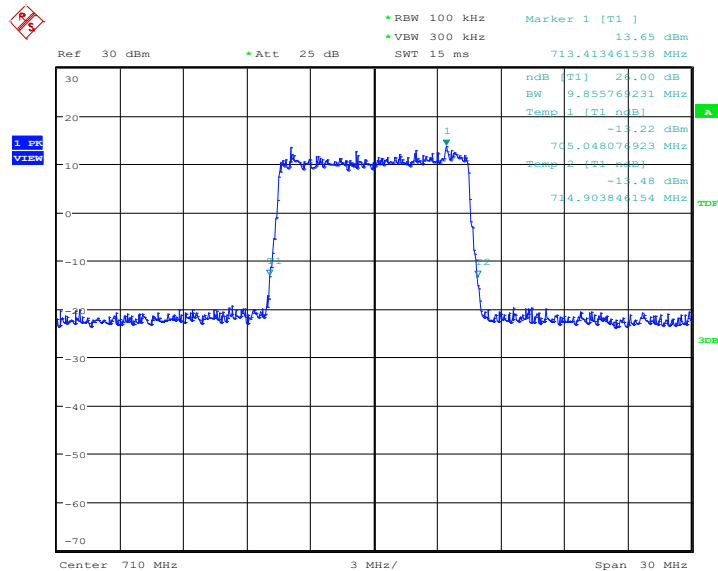
Frequency(MHz)	Emission Bandwidth (-26dBc BW)(kHz)		
710.0	QPSK	16QAM	64QAM
	9807.69	9855.77	9855.77

LTE band 17, 10MHz Bandwidth, QPSK (-26dBc BW)



Date: 12.APR.2021 15:11:59

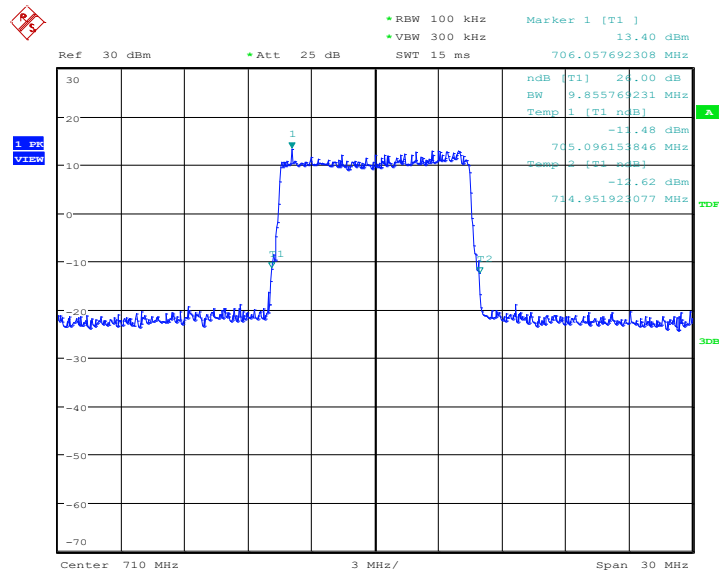
LTE band 17, 10MHz Bandwidth, 16QAM (-26dBc BW)



Date: 12.APR.2021 15:12:15



LTE band 17, 10MHz Bandwidth, 64QAM (-26dBc BW)

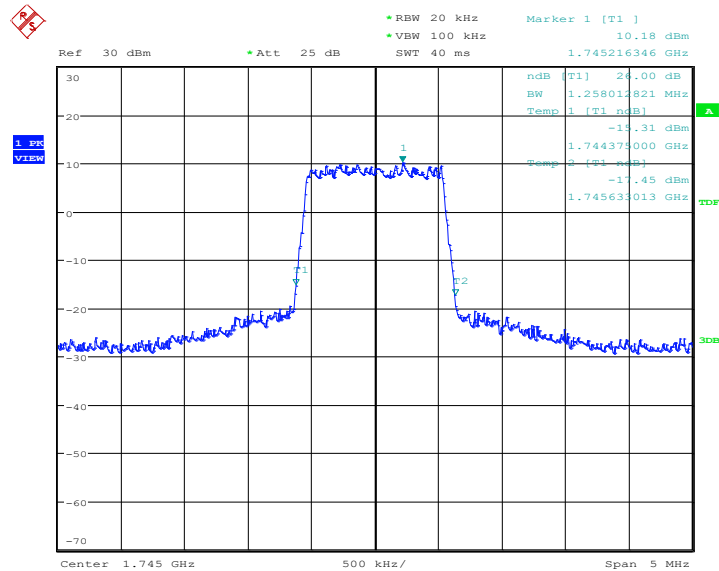


Date: 12.APR.2021 16:27:51

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

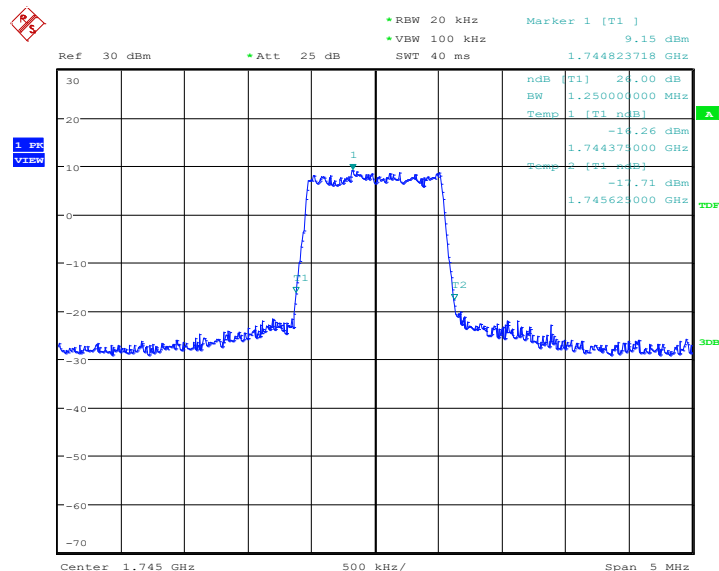
Frequency(MHz)	Emission Bandwidth (-26dBc BW)(kHz)		
1745.0	QPSK	16QAM	64QAM
	1258.01	1250.00	1250.00

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



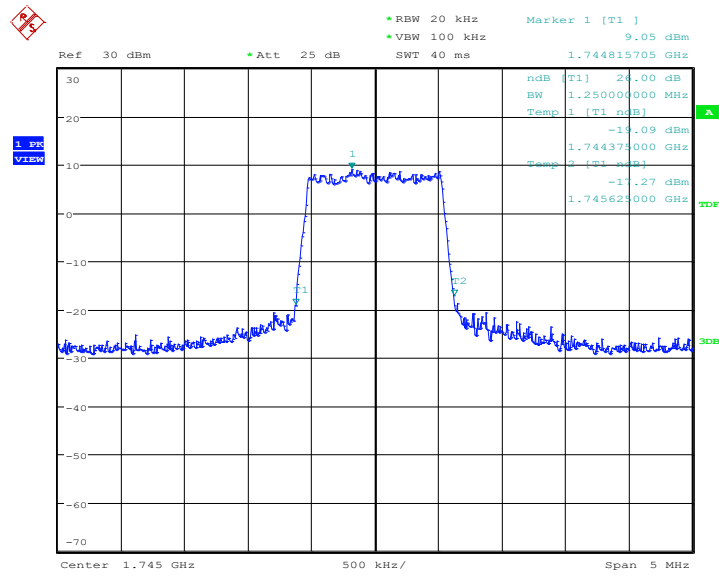
Date: 12.APR.2021 15:14:21

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



Date: 12.APR.2021 15:14:37

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

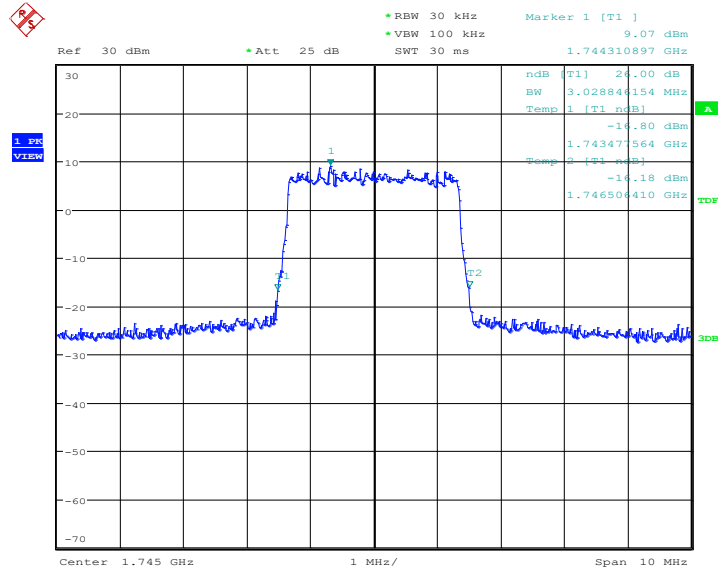


Date: 12.APR.2021 16:29:41

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

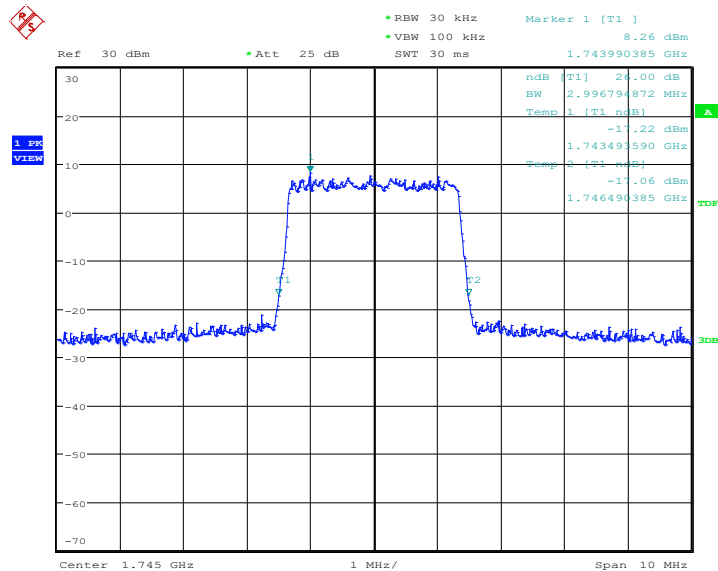
Frequency(MHz)	Emission Bandwidth (-26dBc BW)(kHz)		
1745.0	QPSK	16QAM	64QAM
	3028.85	2996.79	3028.85

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



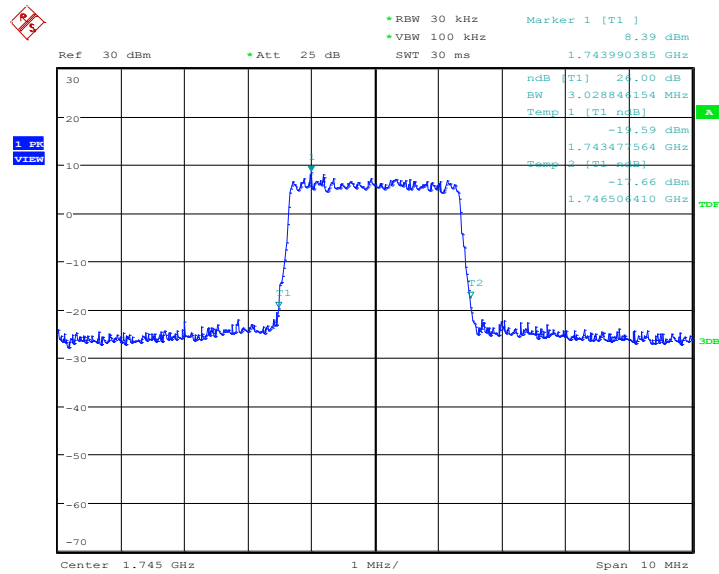
Date: 12.APR.2021 15:16:39

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



Date: 12.APR.2021 15:16:54

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

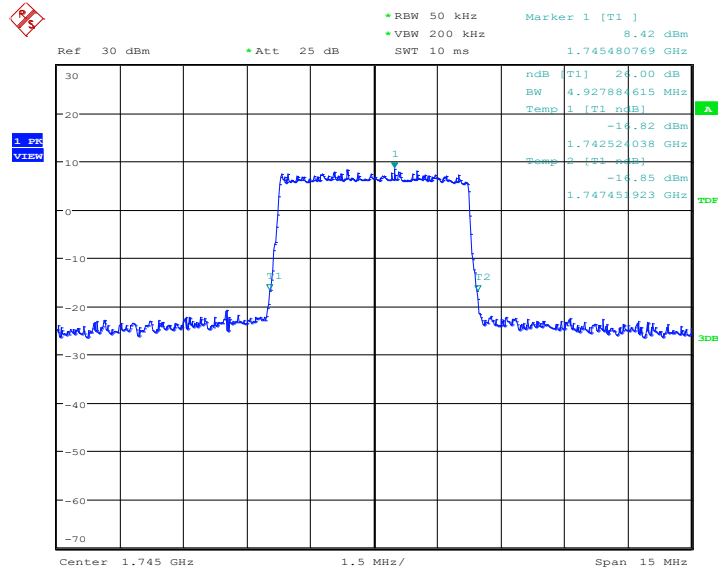


Date: 12.APR.2021 16:31:29

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

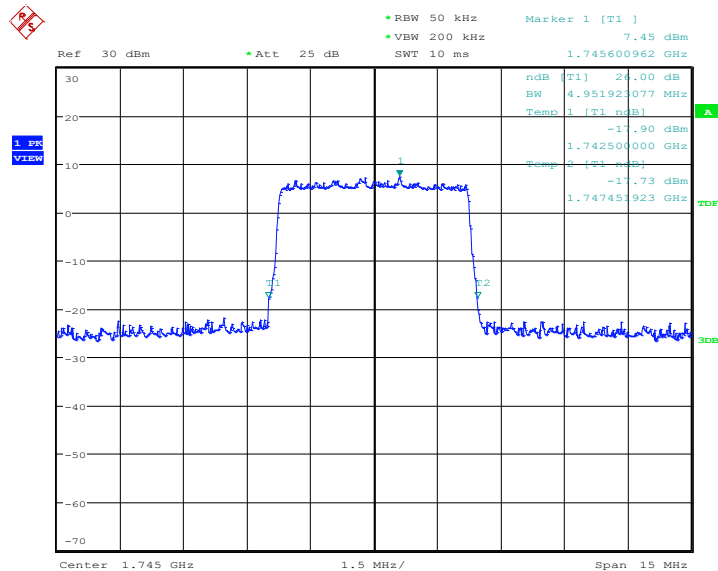
Frequency(MHz)	Emission Bandwidth (-26dBc BW)(kHz)		
1745.0	QPSK	16QAM	64QAM
	4927.88	4951.92	4927.88

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



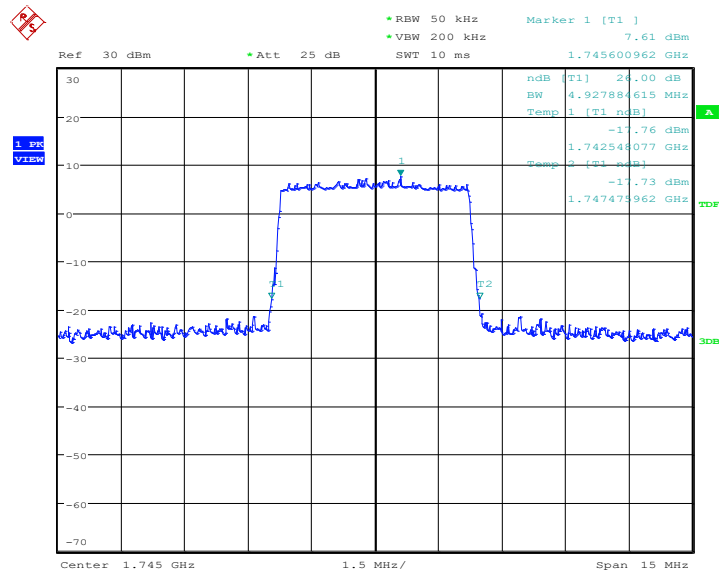
Date: 12.APR.2021 15:18:56

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



Date: 12.APR.2021 15:19:12

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

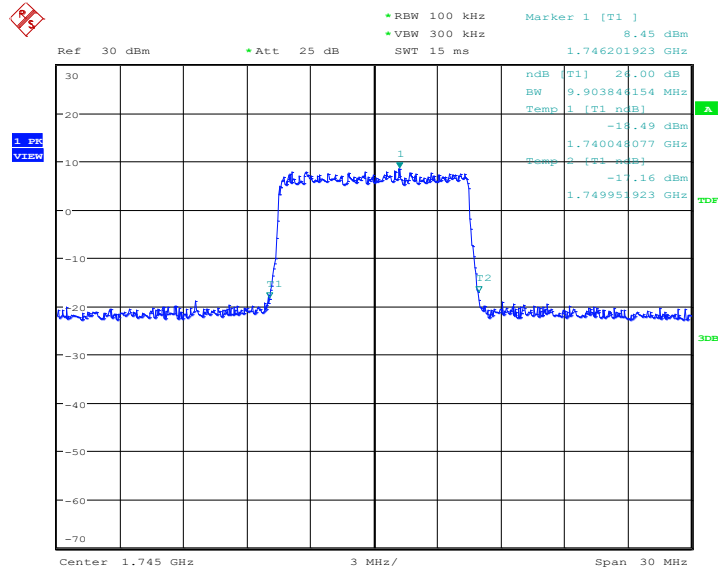


Date: 12.APR.2021 16:33:17

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

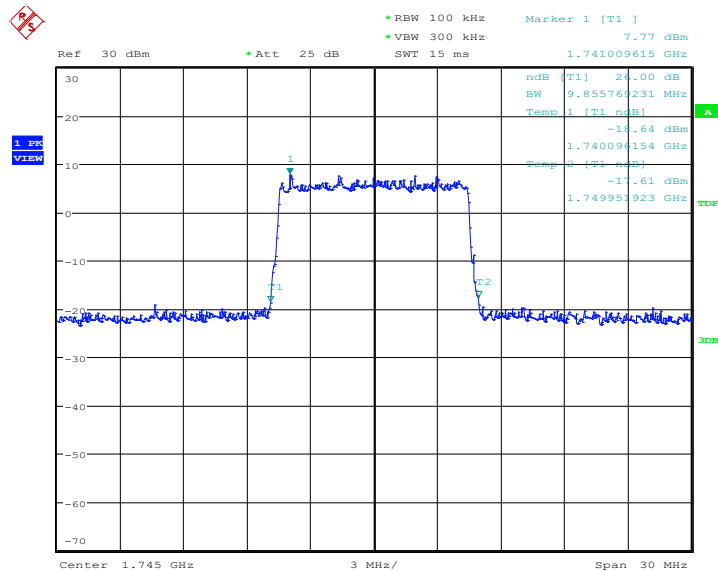
Frequency(MHz)	Emission Bandwidth (-26dBc BW)(kHz)		
1745.0	QPSK	16QAM	64QAM
	9903.85	9855.77	9903.85

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



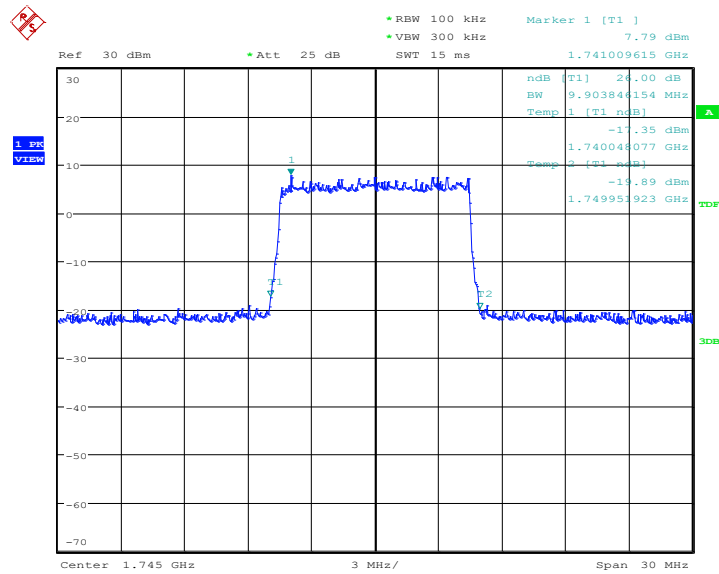
Date: 12.APR.2021 15:21:14

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



Date: 12.APR.2021 15:21:30

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

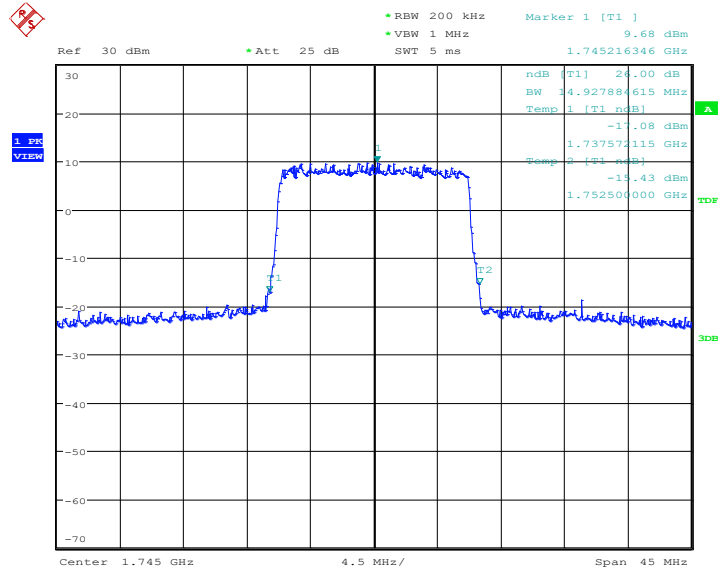


Date: 12.APR.2021 16:35:06

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

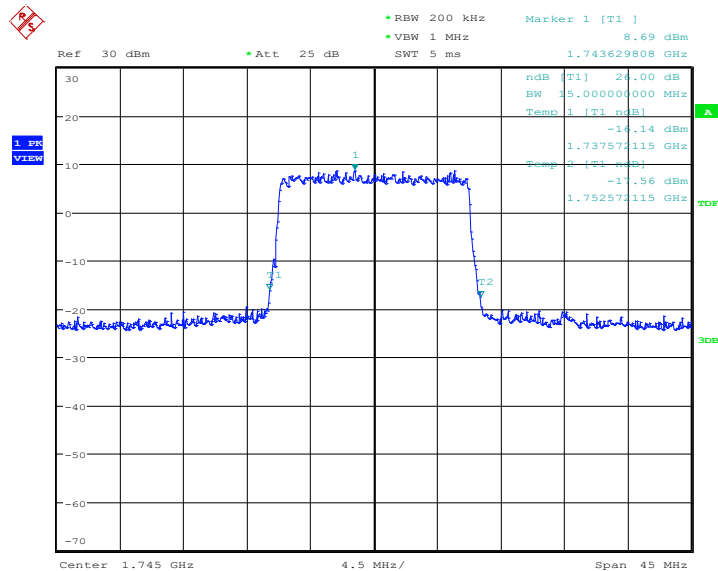
Frequency(MHz)	Emission Bandwidth (-26dBc BW)(kHz)		
1745.0	QPSK	16QAM	64QAM
	14927.88	15000.00	14855.77

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



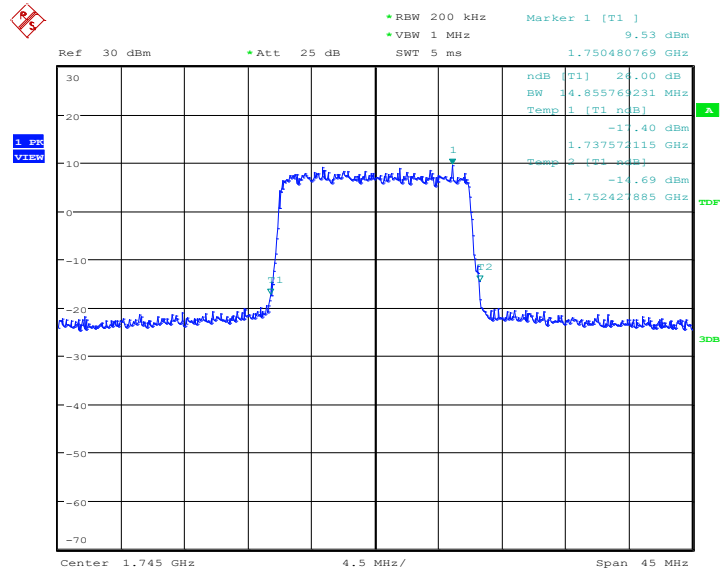
Date: 12.APR.2021 15:23:32

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



Date: 12.APR.2021 15:23:47

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

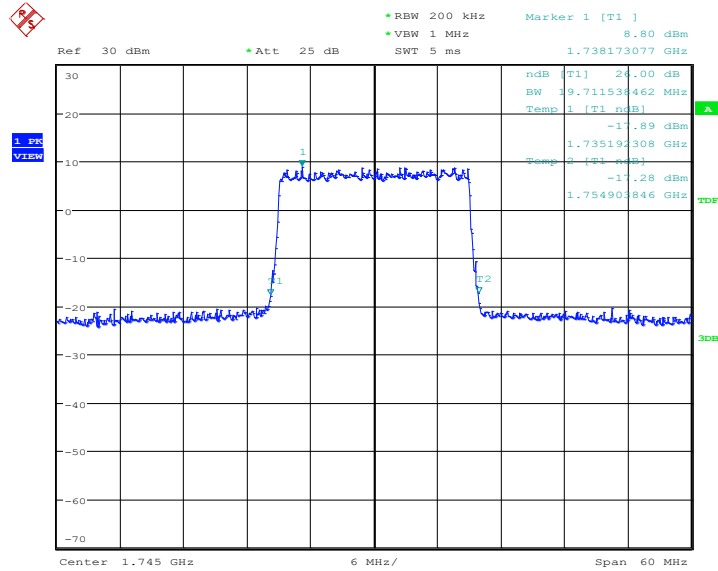


Date: 12.APR.2021 16:36:54

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

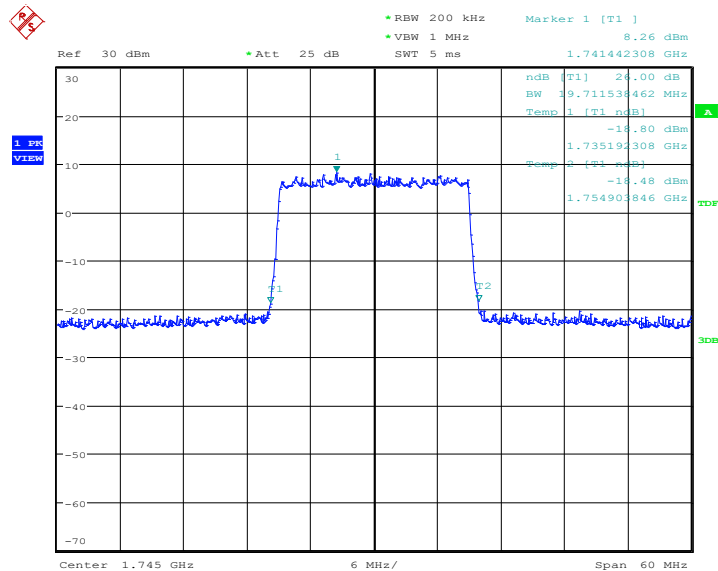
Frequency(MHz)	Emission Bandwidth (-26dBc BW)(kHz)		
1745.0	QPSK	16QAM	64QAM
	19711.54	19711.54	19615.38

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



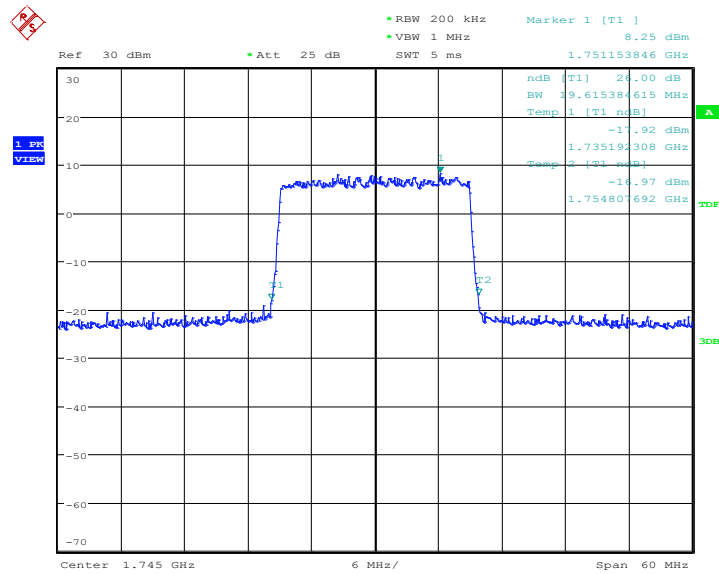
Date: 12.APR.2021 15:25:50

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



Date: 12.APR.2021 15:26:05

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



Date: 12.APR.2021 16:38:42

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.

A.6.1 Measurement limit

On any frequency outside frequency band

d of the US Cellular/PCS spectrum, the power of any emission shall be attenuated below the transmitter power (P, in Watts) by at least $43+10\log(P)$ dB. For all power levels +30 dBm to 0 dBm, this becomes a constant specification limit of -13 dBm.

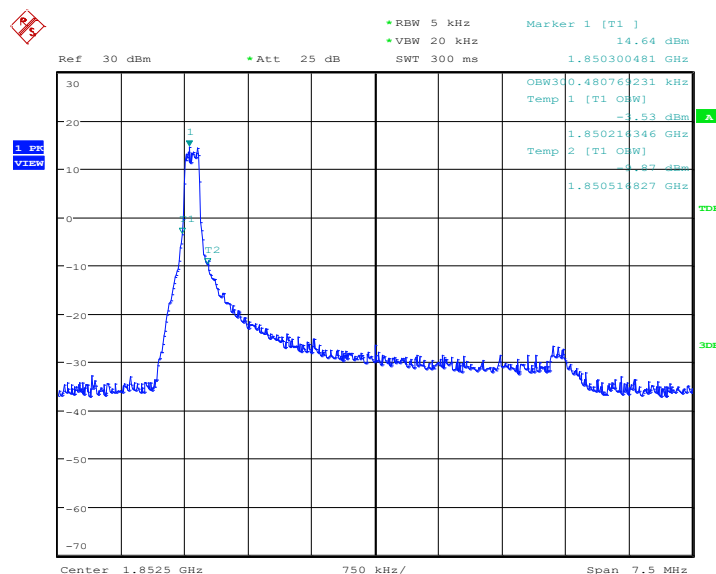
A relaxation of the reference bandwidth is often provided for measurements within a specified frequency range at the edge of the authorized frequency block/band. This is often implemented by permitting the use of a narrower RBW (typically limited to a minimum RBW of 1% of the OBW) for measuring the out-of-band emissions without a requirement to integrate the result over the full reference bandwidth.

A.6.2 Measurement result

Only worst case result is given below

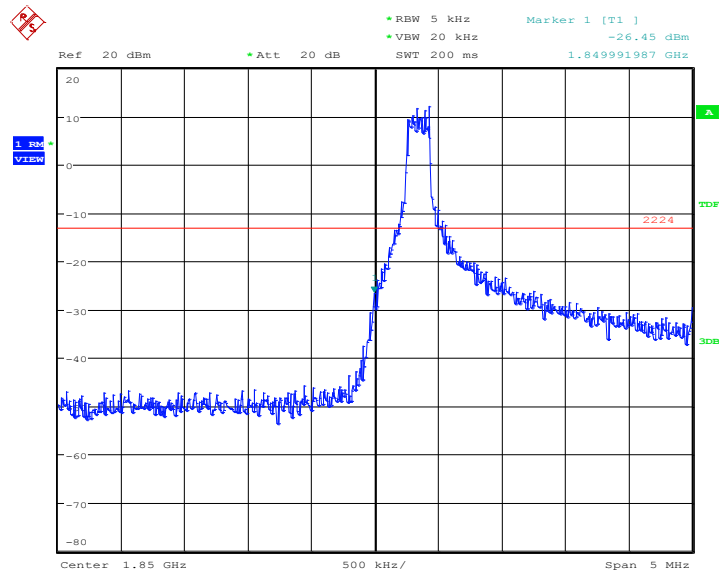
LTE band 2

OBW: 1RB-low_offset



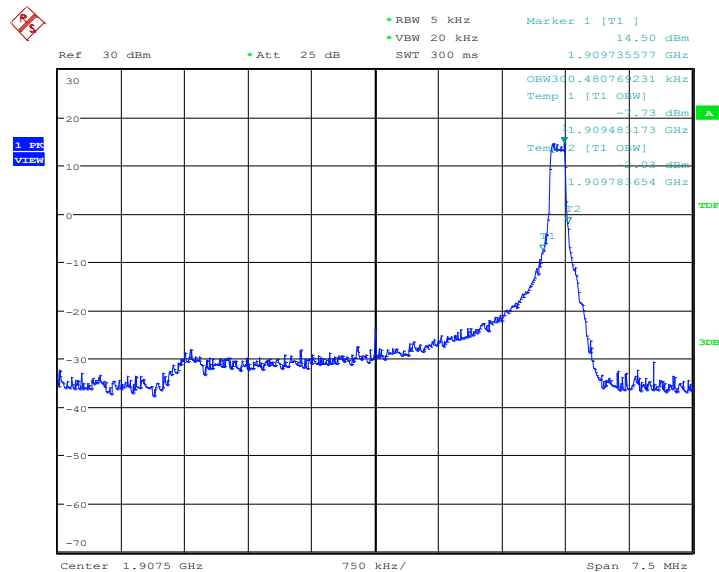
Date: 12.APR.2021 18:02:39

LOW BAND EDGE BLOCK-1RB-low_offset



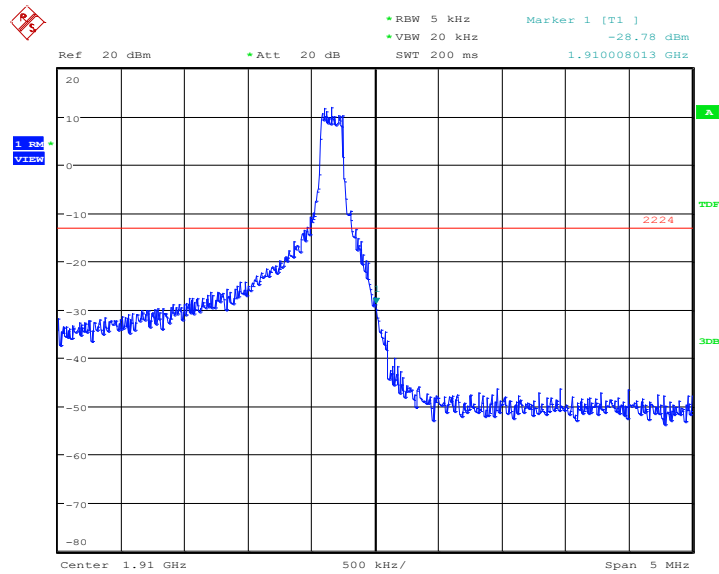
Date: 12.APR.2021 18:03:24

OBW: 1RB-high_offset



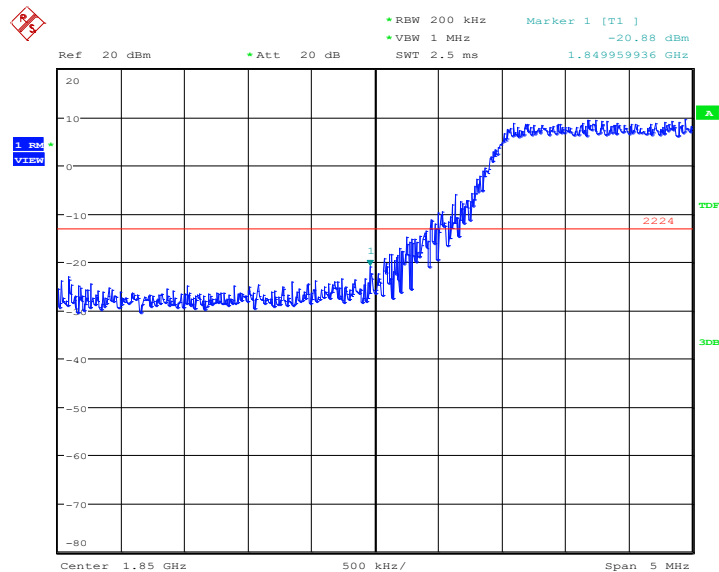
Date: 12.APR.2021 17:54:46

HIGH BAND EDGE BLOCK-1RB-high_offset



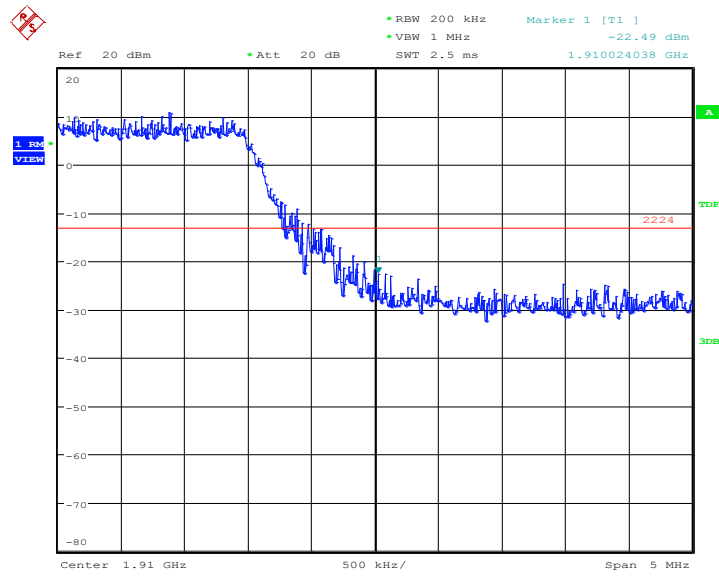
Date: 12.APR.2021 17:55:31

LOW BAND EDGE BLOCK-20MHz-100%RB



Date: 12.APR.2021 17:38:45

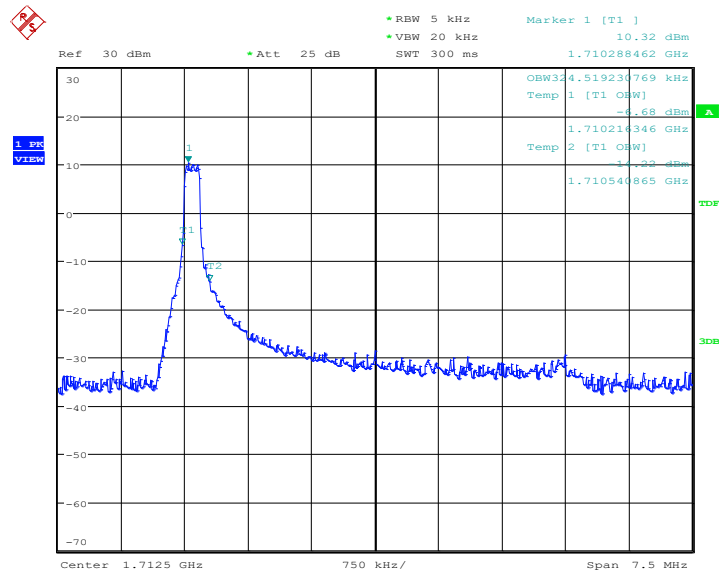
HIGH BAND EDGE BLOCK-20MHz-100%RB



Date: 12.APR.2021 17:39:31

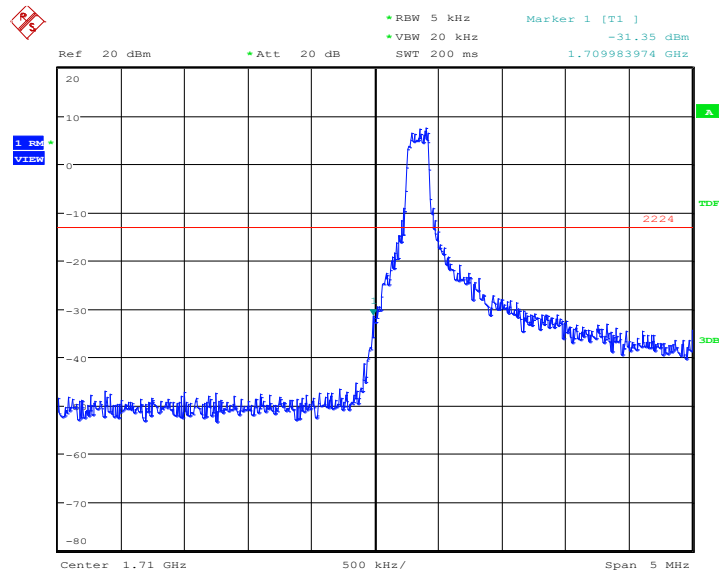
LTE band 4

OBW: 1RB-low_offset



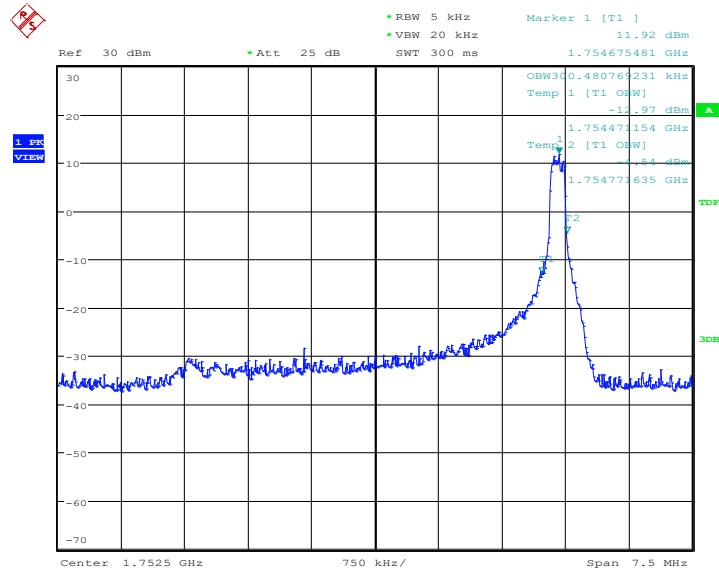
Date: 12.APR.2021 18:04:38

LOW BAND EDGE BLOCK-1RB-low_offset

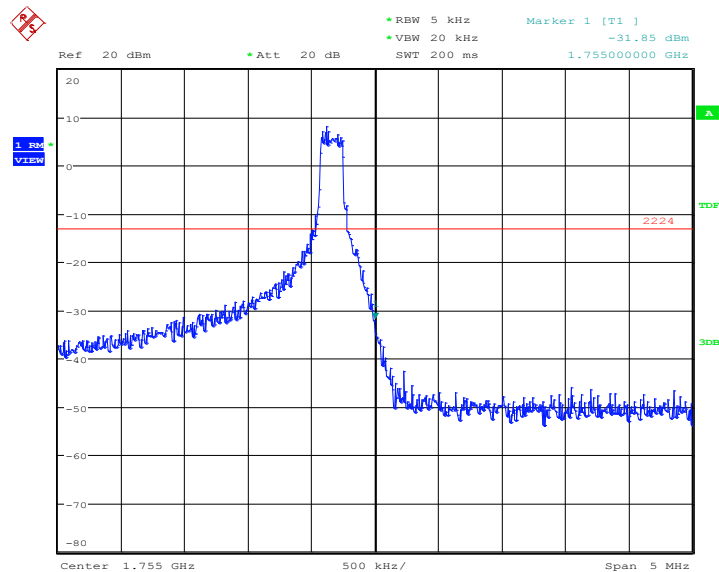


Date: 12.APR.2021 18:05:23

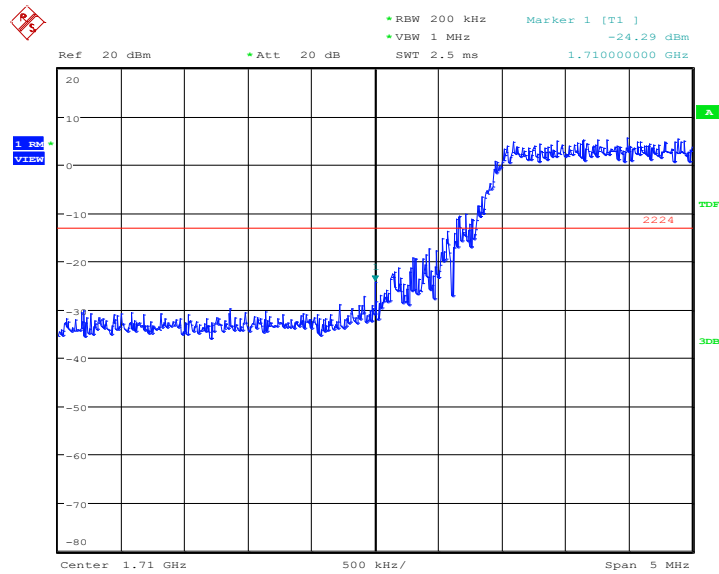
OBW: 1RB-high_offset



HIGH BAND EDGE BLOCK-1RB-high_offset

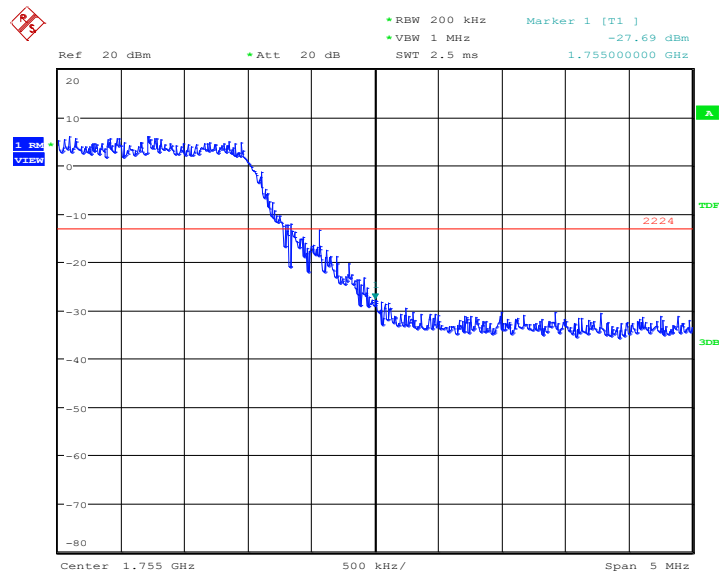


LOW BAND EDGE BLOCK-20MHz-100%RB



Date: 12.APR.2021 17:40:39

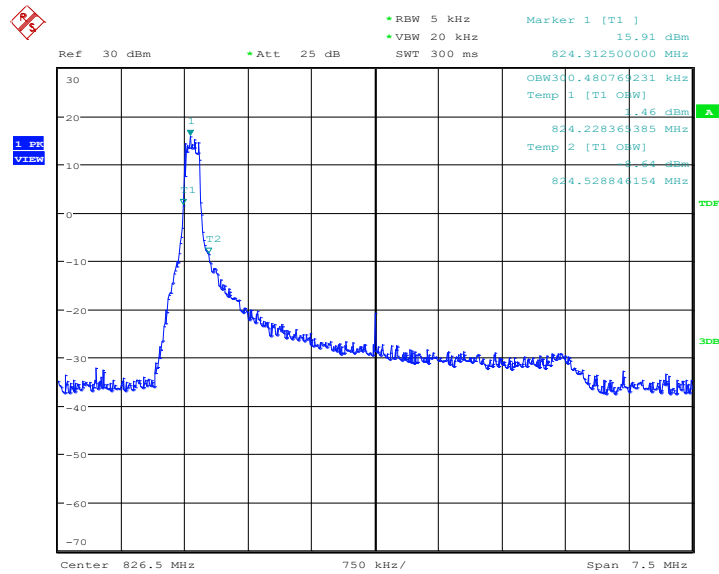
HIGH BAND EDGE BLOCK-20MHz-100%RB



Date: 12.APR.2021 17:41:25

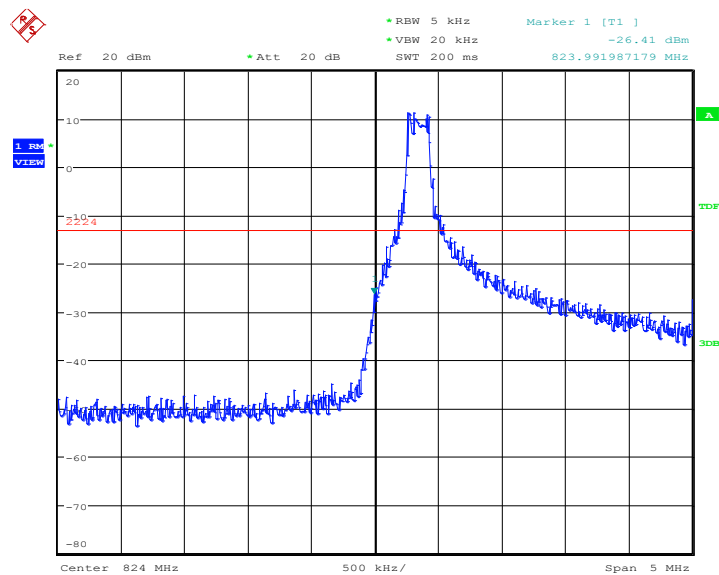
LTE band 5

OBW: 1RB-low_offset



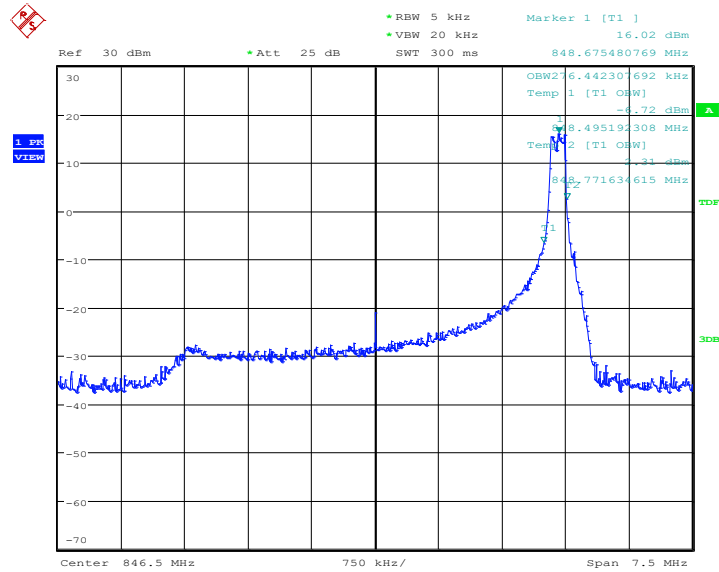
Date: 12.APR.2021 18:00:41

LOW BAND EDGE BLOCK-1RB-low_offset



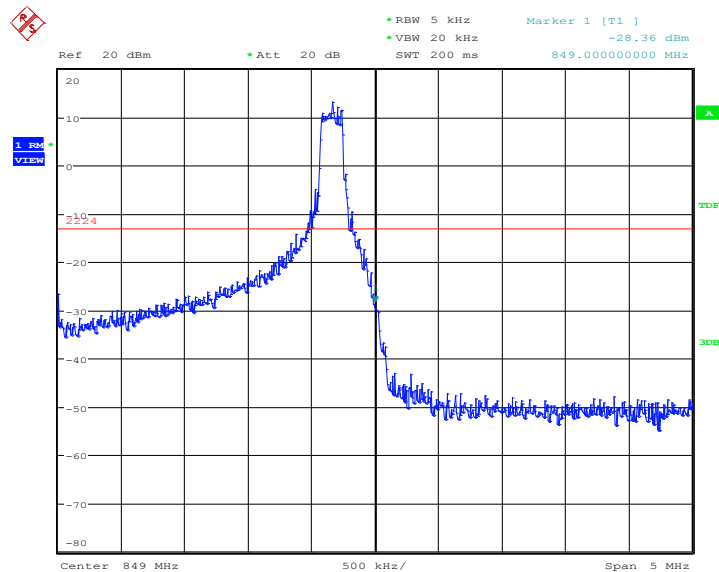
Date: 12.APR.2021 18:01:25

OBW: 1RB-high_offset



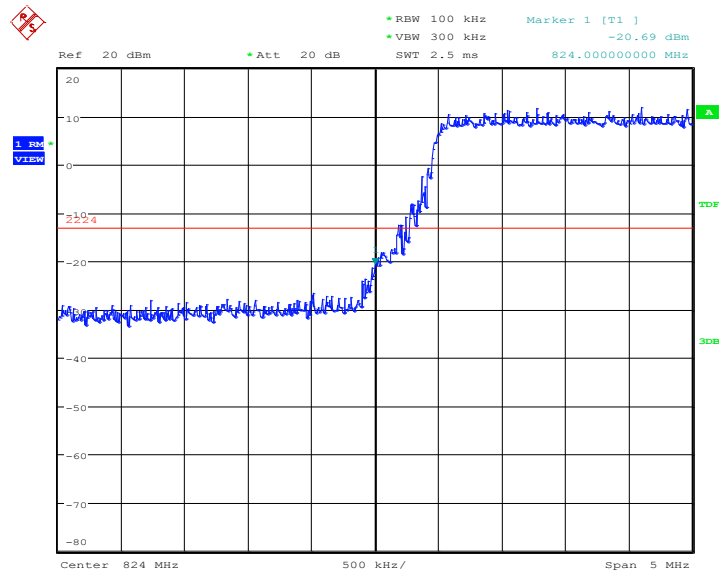
Date: 12.APR.2021 17:53:07

HIGH BAND EDGE BLOCK-1RB-high_offset



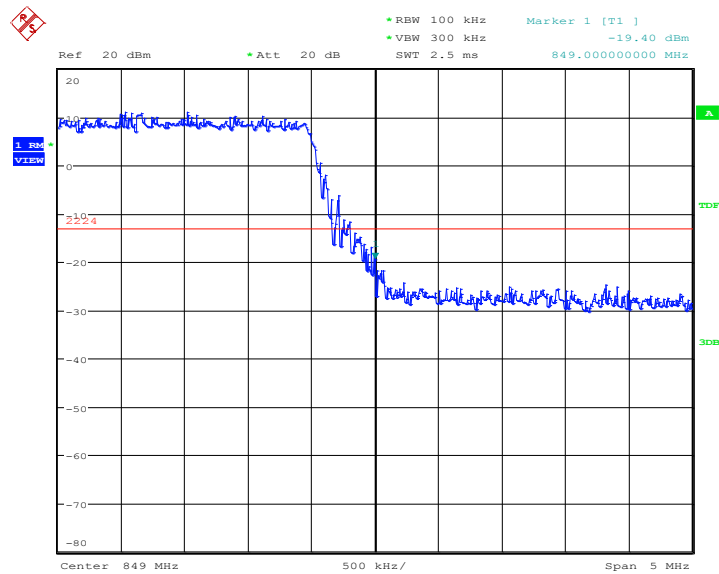
Date: 12.APR.2021 17:53:51

LOW BAND EDGE BLOCK-10MHz-100%RB



Date: 12.APR.2021 17:50:38

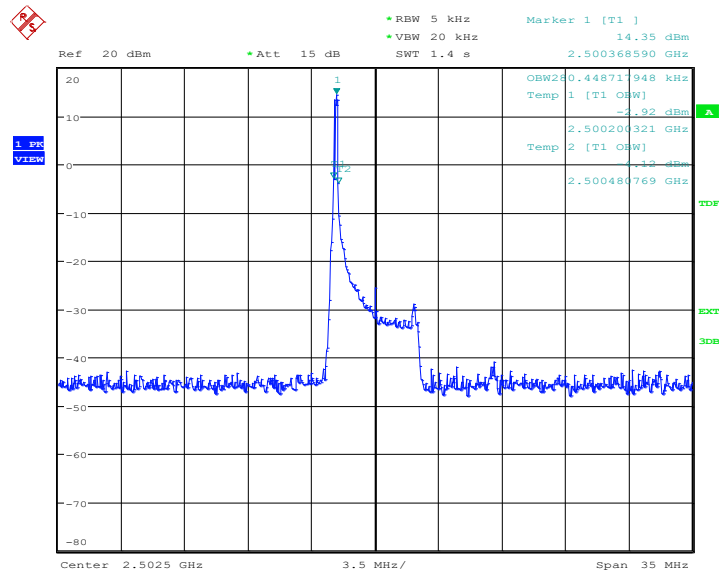
HIGH BAND EDGE BLOCK-10MHz-100%RB



Date: 12.APR.2021 17:51:24

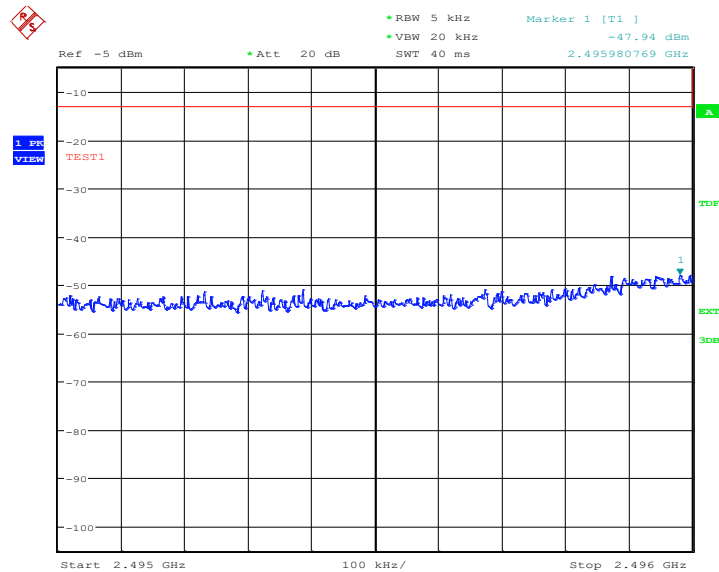
LTE band 7

OBW: 1RB-low_offset

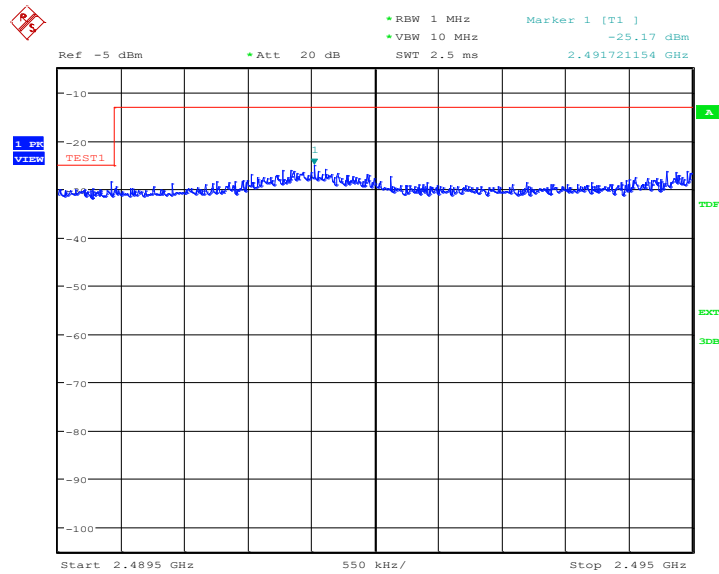


Date: 21.APR.2021 13:03:36

LOW BAND EDGE BLOCK-1RB-low_offset

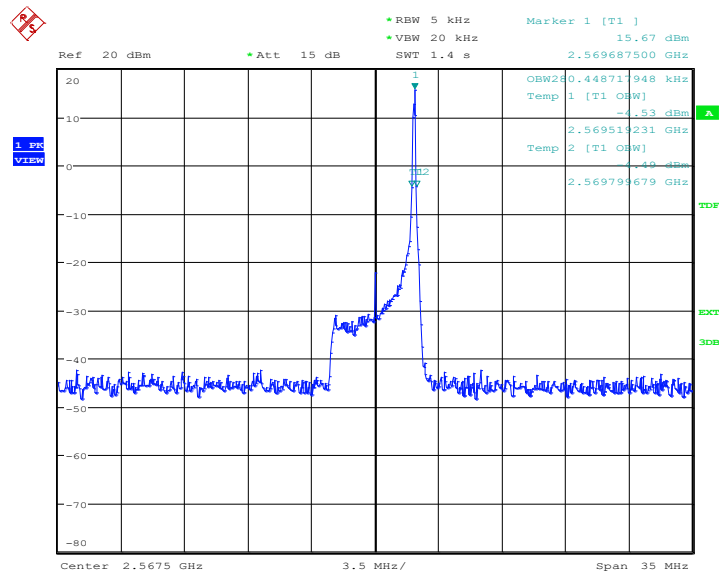


Date: 21.APR.2021 13:10:41



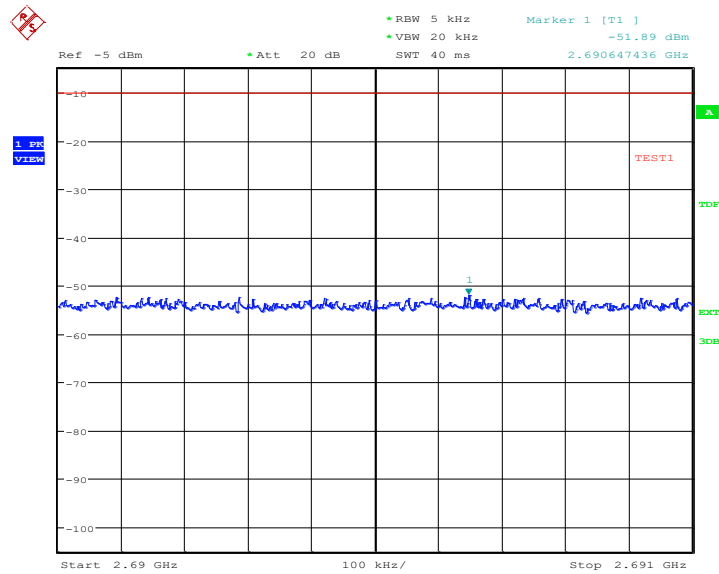
Date: 21.APR.2021 13:09:38

OBW: 1RB-high_offset

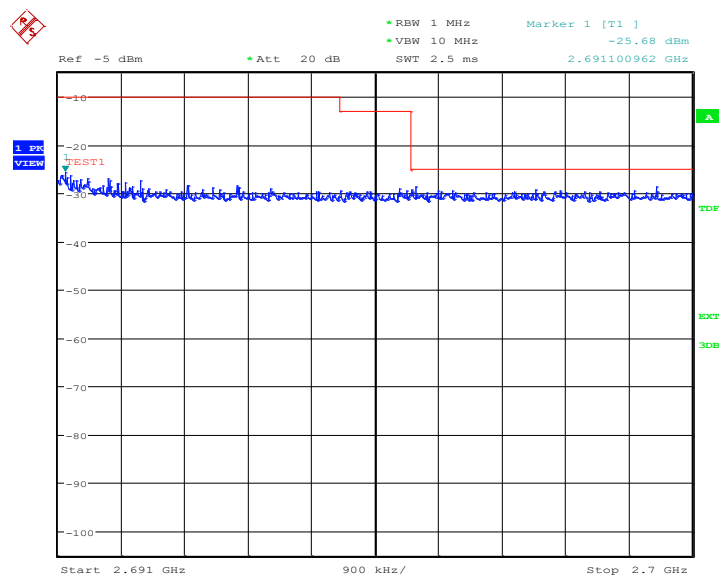


Date: 21.APR.2021 13:04:33

HIGH BAND EDGE BLOCK-1RB-high_offset

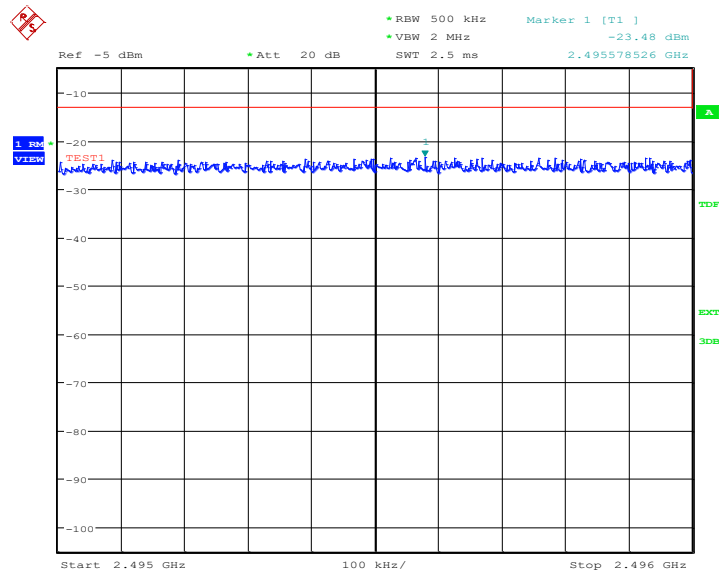


Date: 21.APR.2021 13:06:57

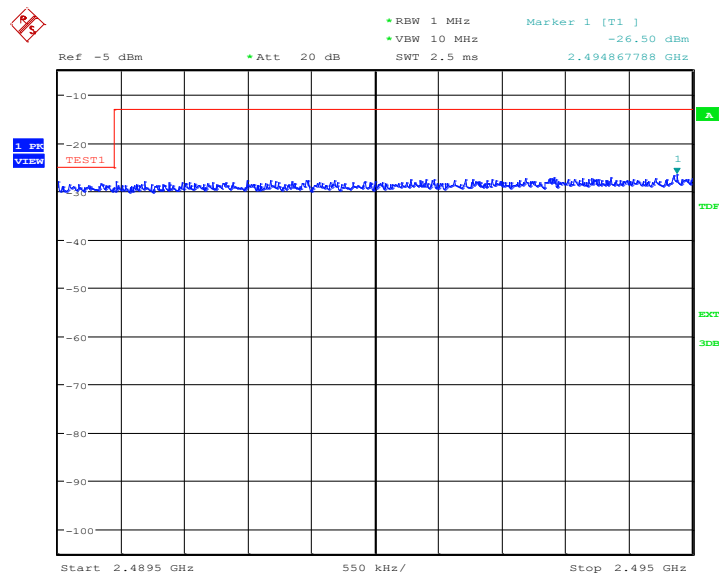


Date: 21.APR.2021 13:08:36

LOW BAND EDGE BLOCK-20MHz-100%RB



Date: 21.APR.2021 13:12:49



Date: 21.APR.2021 13:14:28