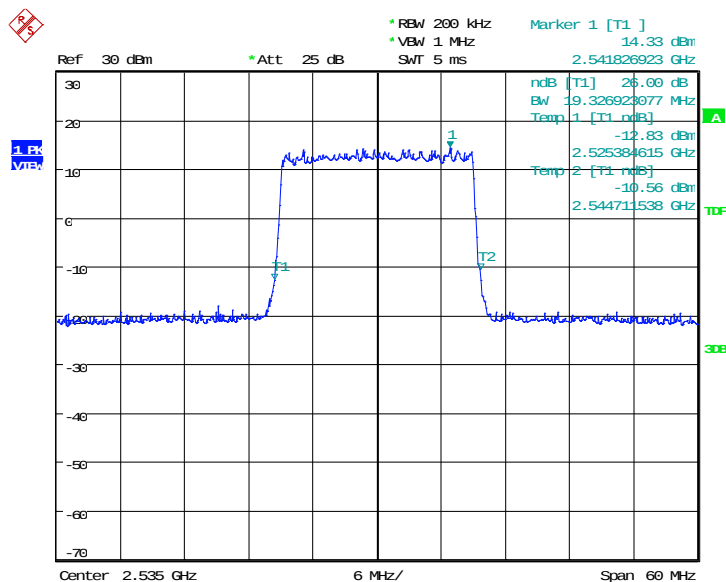


LTE band 7, 20MHz (-26dBc BW)

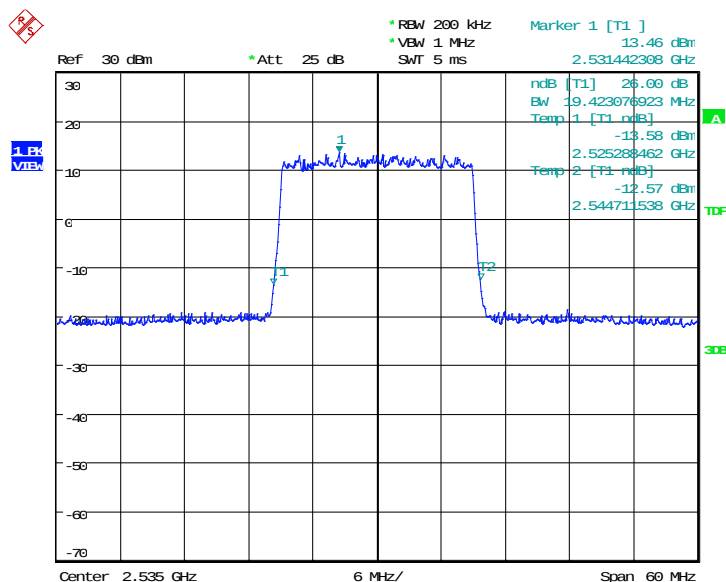
Frequency(MHz)	Emission Bandwidth (-26dBc BW)(kHz)		
2535.0	QPSK	16QAM	64QAM
	19326.92	19423.08	19423.08

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



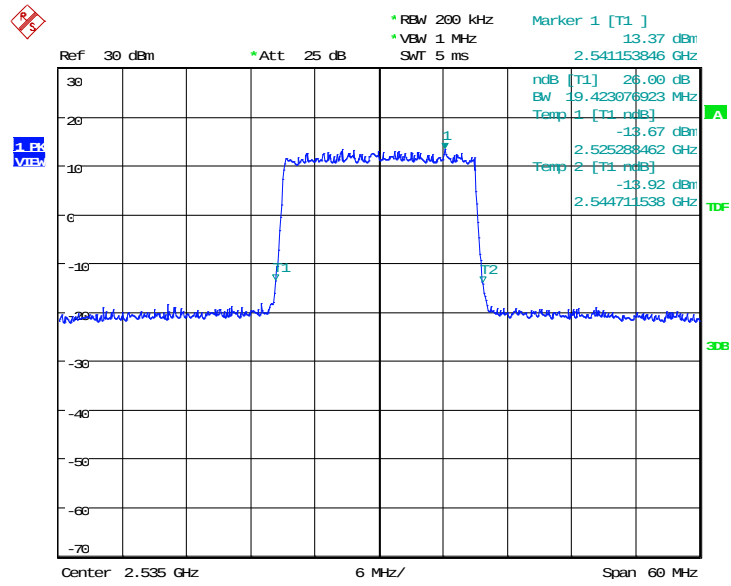
Date: 4.DEC.2019 06:29:31

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



Date: 4.DEC.2019 06:29:47

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



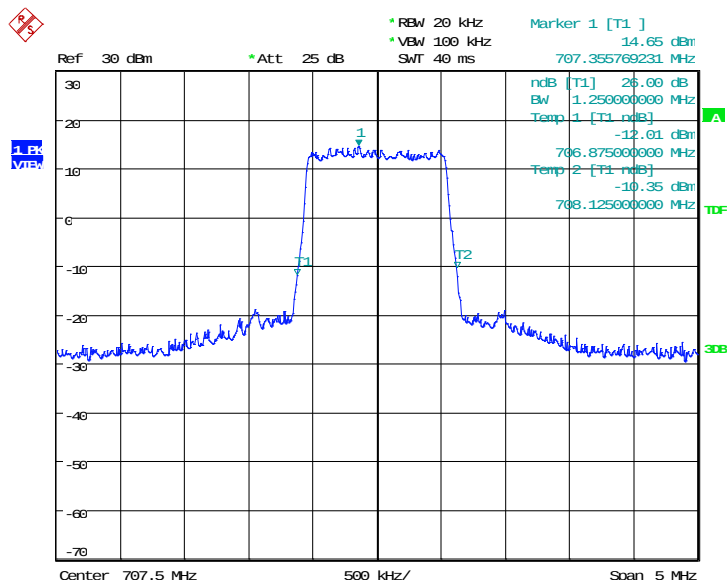
Date: 5.DEC.2019 13:11:06

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

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

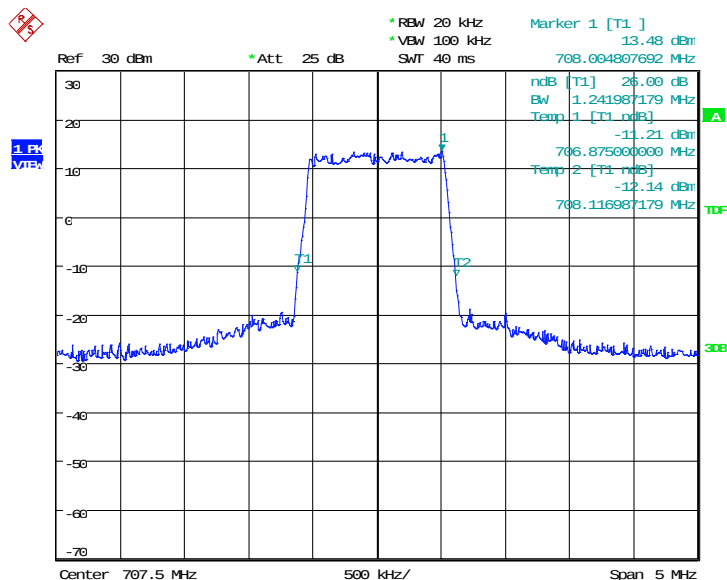
Frequency(MHz)	Emission Bandwidth (-26dBc BW)(kHz)		
707.5	QPSK	16QAM	64QAM
	1250.00	1241.99	1250.00

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



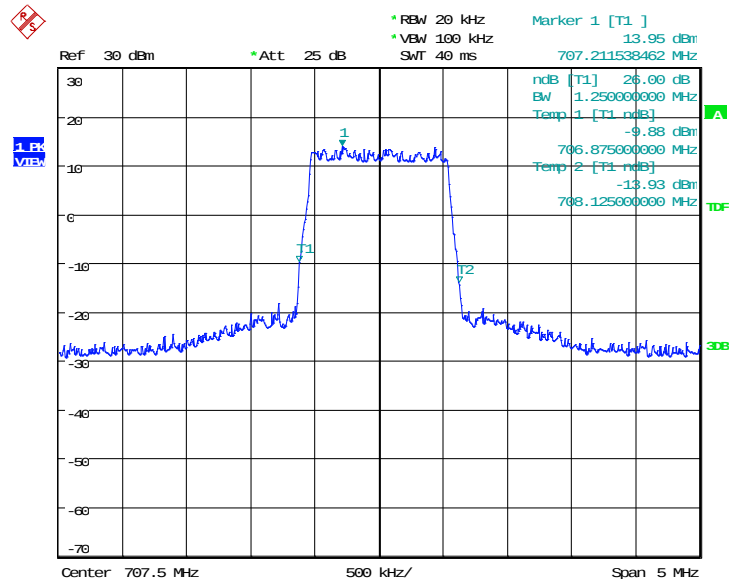
Date: 4.DEC.2019 11:18:24

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



Date: 4.DEC.2019 11:18:40

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

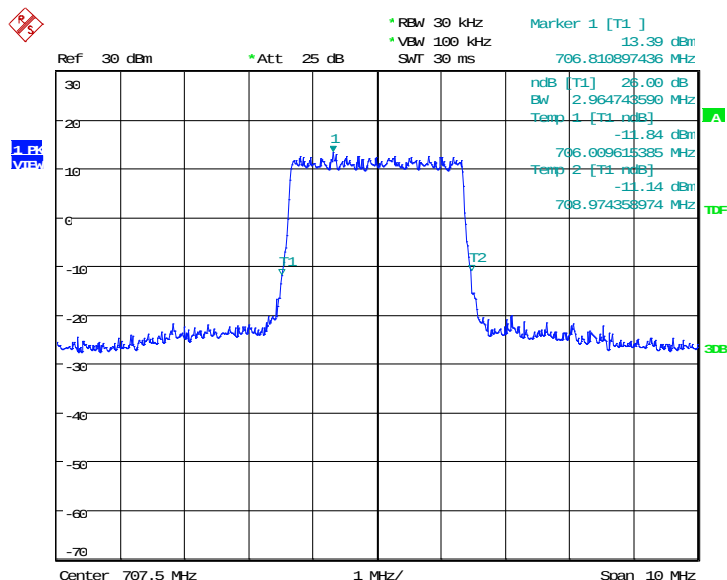


Date: 5.DEC.2019 19:10:45

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

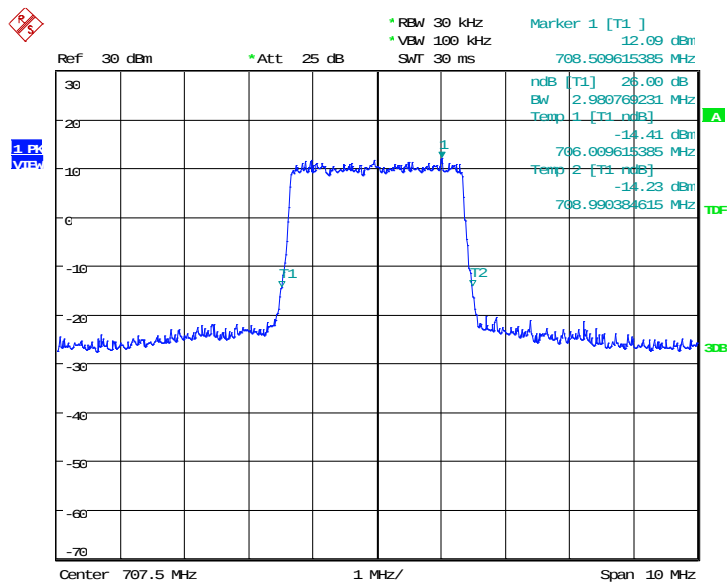
Frequency(MHz)	Emission Bandwidth (-26dBc BW)(kHz)		
707.5	QPSK	16QAM	64QAM
	2964.74	2980.77	2964.74

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



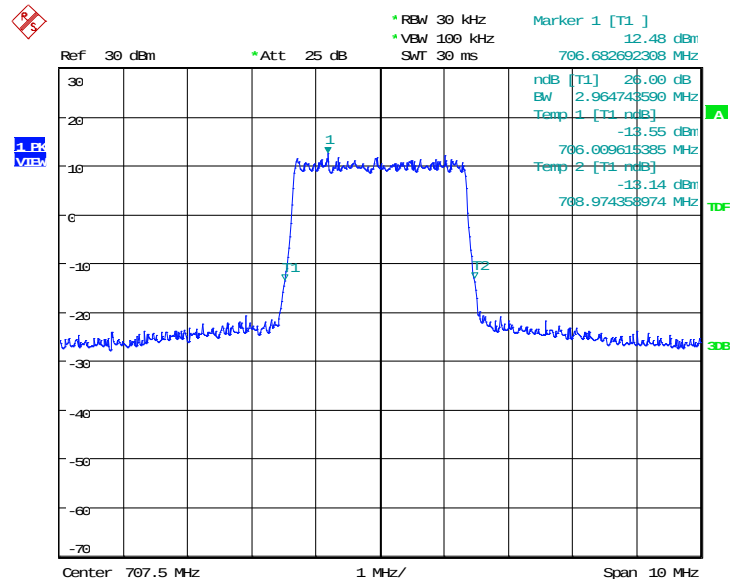
Date: 4.DEC.2019 11:22:45

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



Date: 4.DEC.2019 11:23:01

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

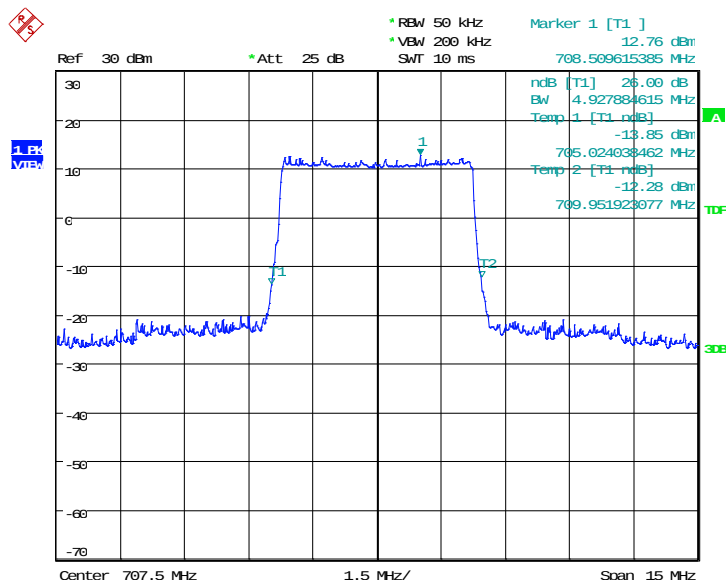


Date: 5.DEC.2019 19:14:16

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

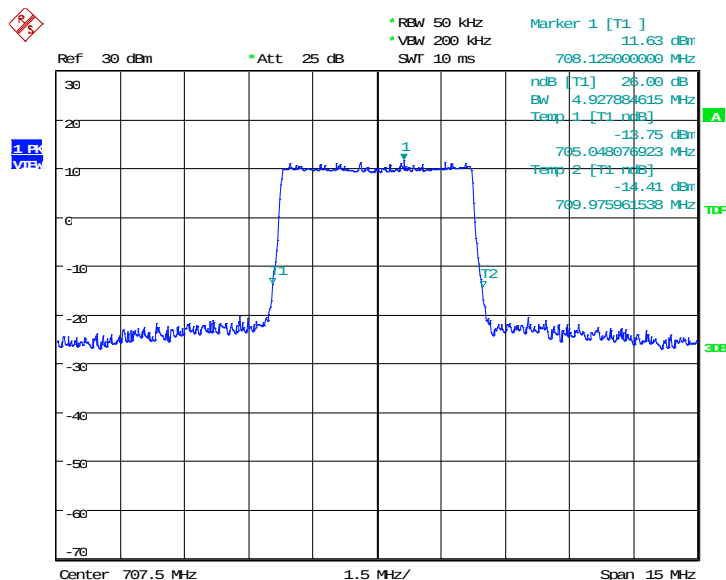
Frequency(MHz)	Emission Bandwidth (-26dBc BW)(kHz)		
707.5	QPSK	16QAM	64QAM
	4927.88	4927.88	4903.85

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



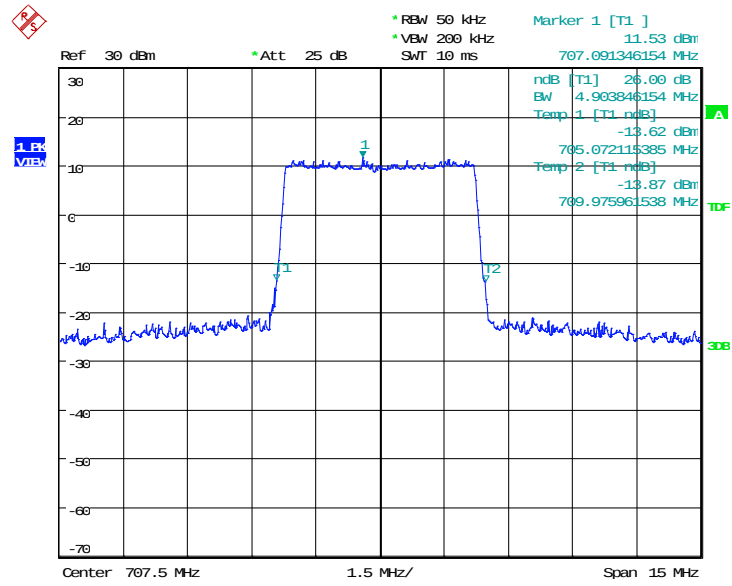
Date: 4.DEC.2019 11:27:03

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



Date: 4.DEC.2019 11:27:19

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

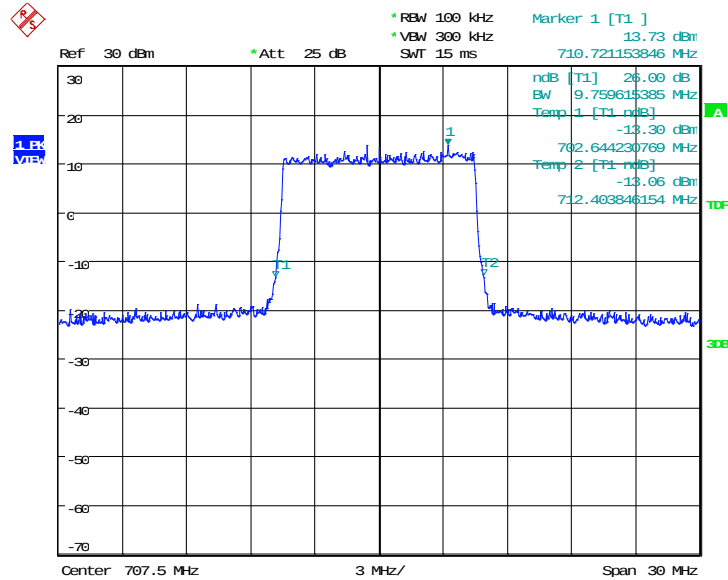


Date: 5.DEC.2019 19:17:43

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

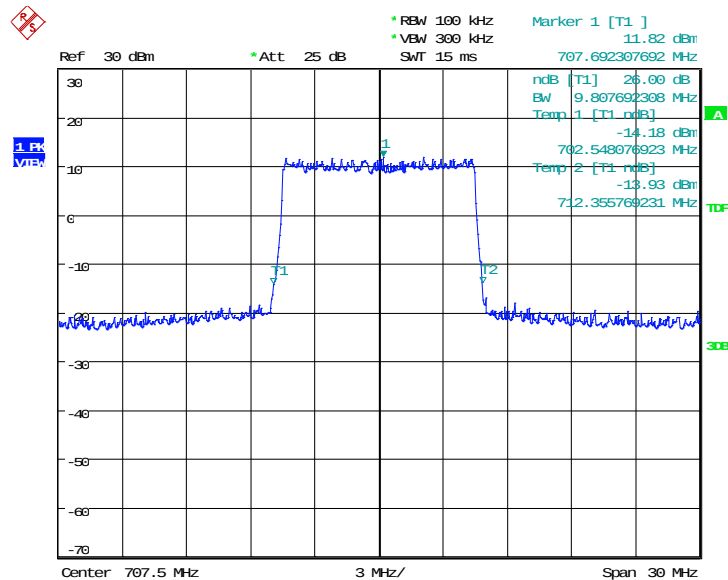
Frequency(MHz)	Emission Bandwidth (-26dBc BW)(kHz)		
707.5	QPSK	16QAM	64QAM
	9759.62	9807.69	9759.62

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



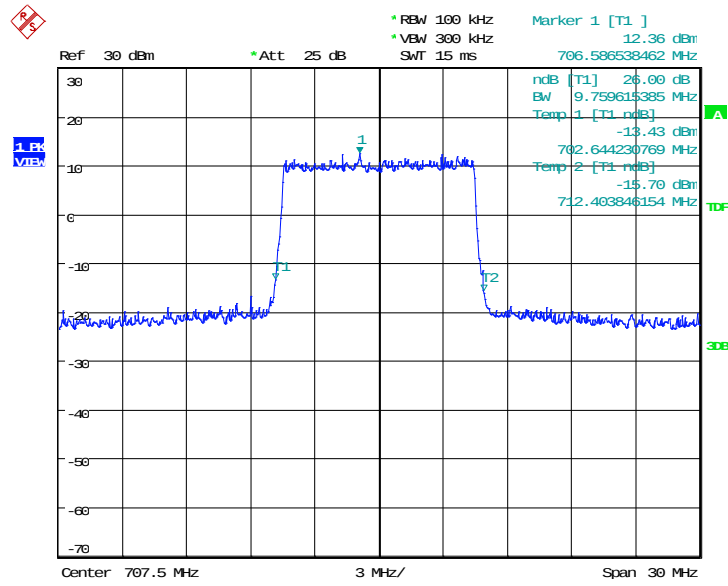
Date: 4.DEC.2019 11:31:21

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



Date: 4.DEC.2019 11:31:37

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

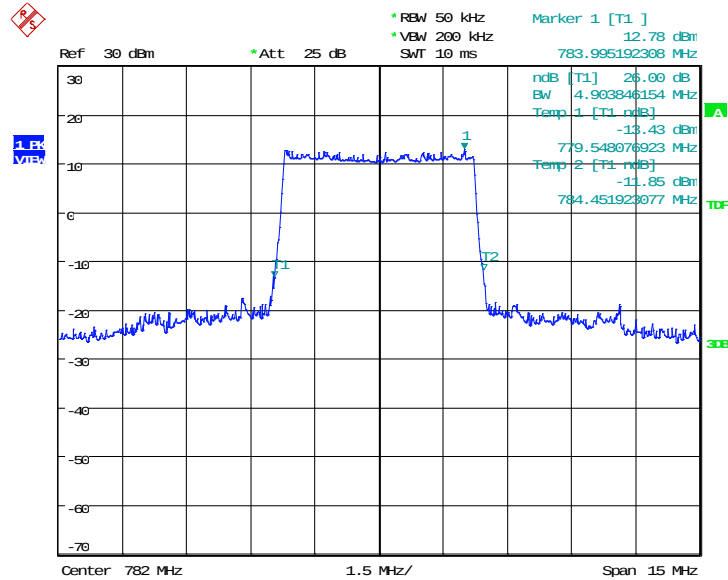


Date: 5.DEC.2019 19:21:13

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

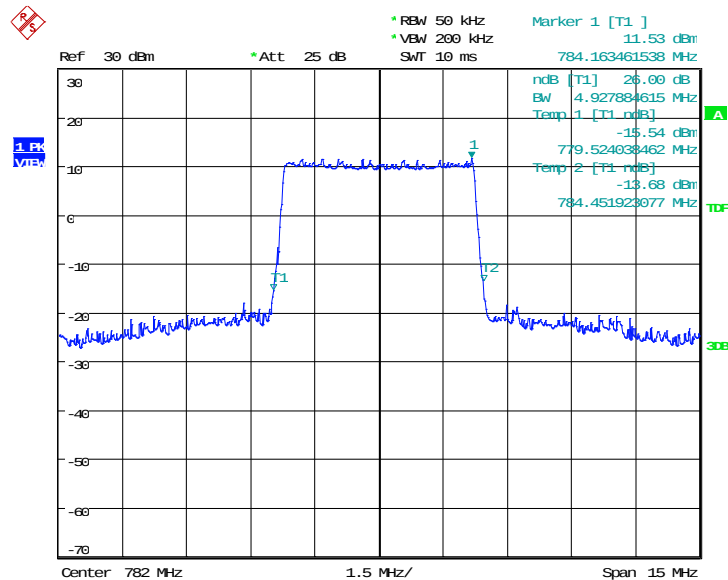
Frequency(MHz)	Emission Bandwidth (-26dBc BW)(kHz)		
782.0	QPSK	16QAM	64QAM
	4903.85	4927.88	4903.85

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



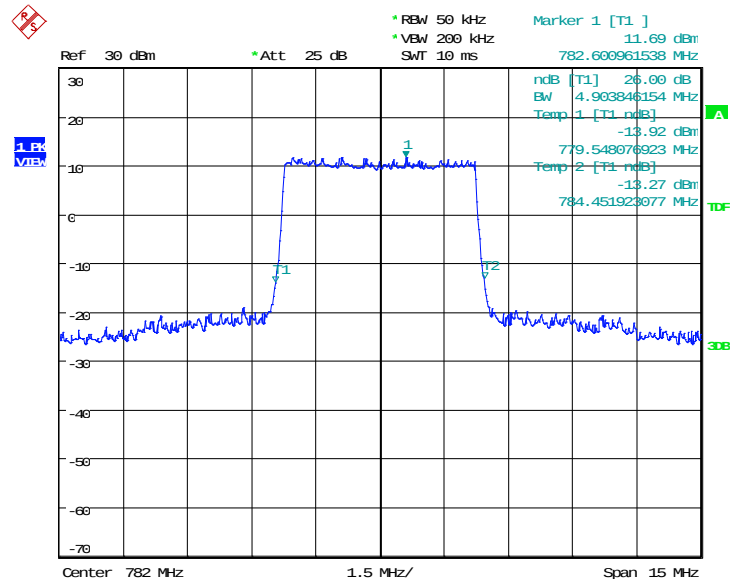
Date: 4.DEC.2019 06:33:56

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



Date: 4.DEC.2019 06:34:12

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

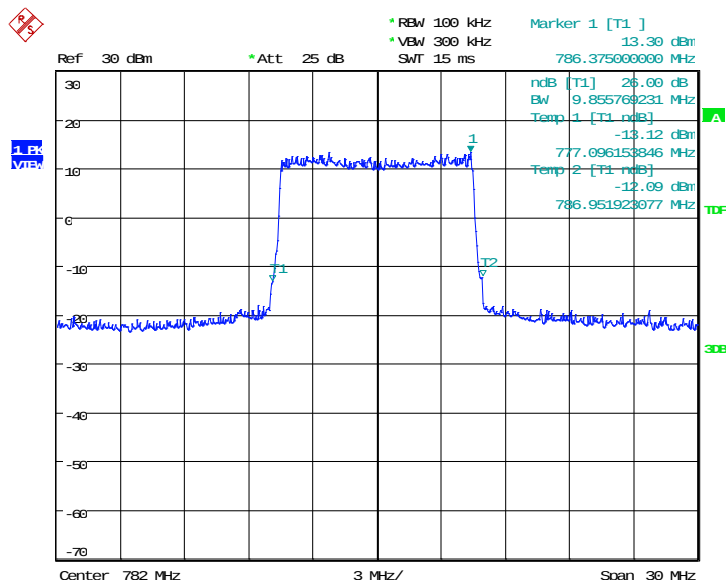


Date: 6.DEC.2019 12:11:15

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

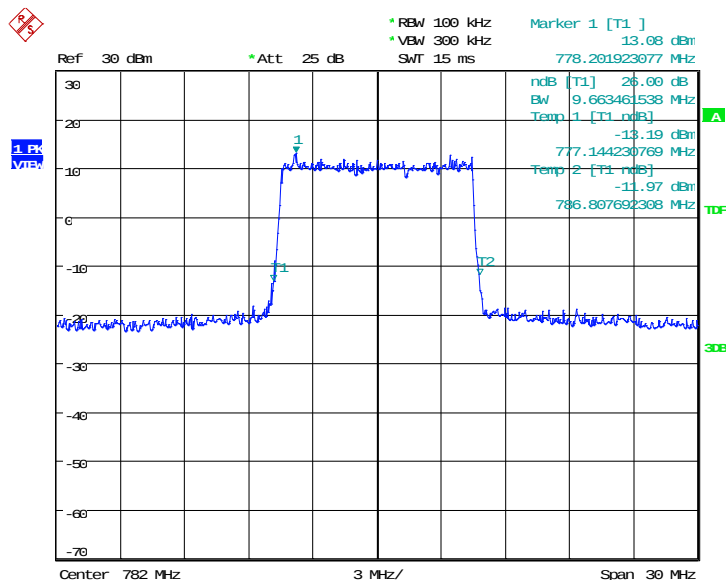
Frequency(MHz)	Emission Bandwidth (-26dBc BW)(kHz)		
782.0	QPSK	16QAM	64QAM
	9855.77	9663.46	9663.46

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



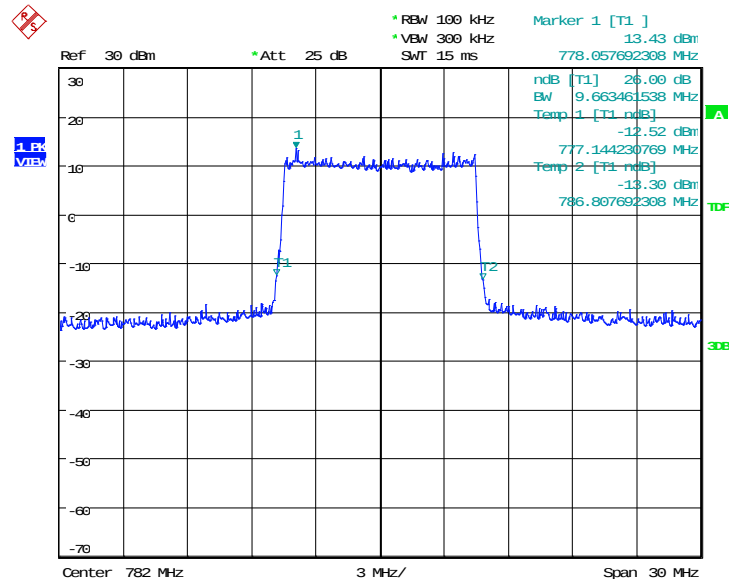
Date: 4.DEC.2019 06:38:16

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



Date: 4.DEC.2019 06:38:32

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

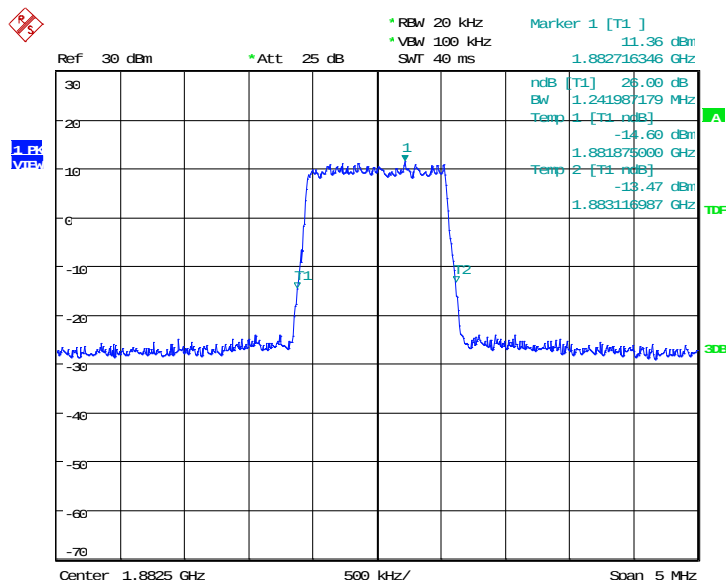


Date: 6.DEC.2019 12:14:45

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

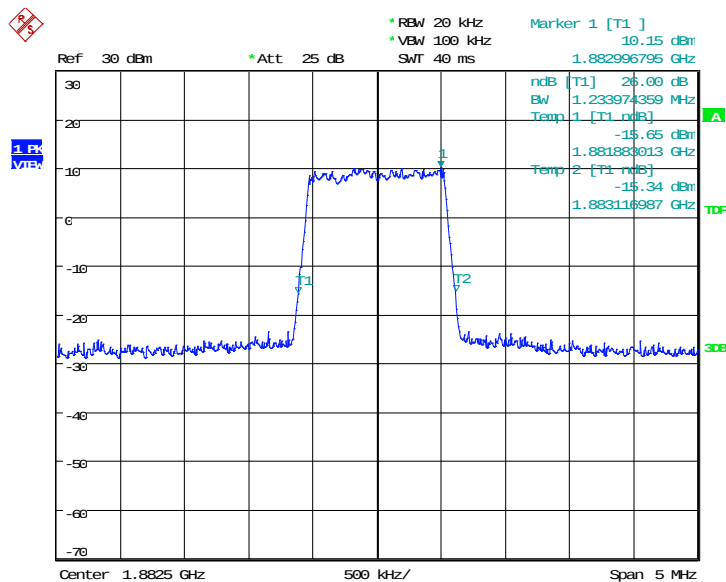
Frequency(MHz)	Emission Bandwidth (-26dBc BW)(kHz)		
1882.5	QPSK	16QAM	64QAM
	1241.99	1233.97	1241.99

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



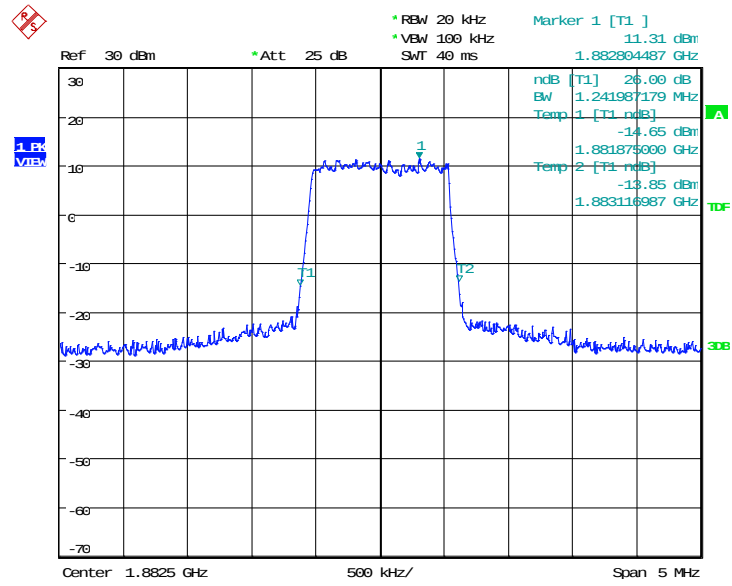
Date: 4.DEC.2019 11:35:41

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



Date: 4.DEC.2019 11:35:57

LTE band 25, 1.4MHz Bandwidth, 64QAM (-26dBc BW)

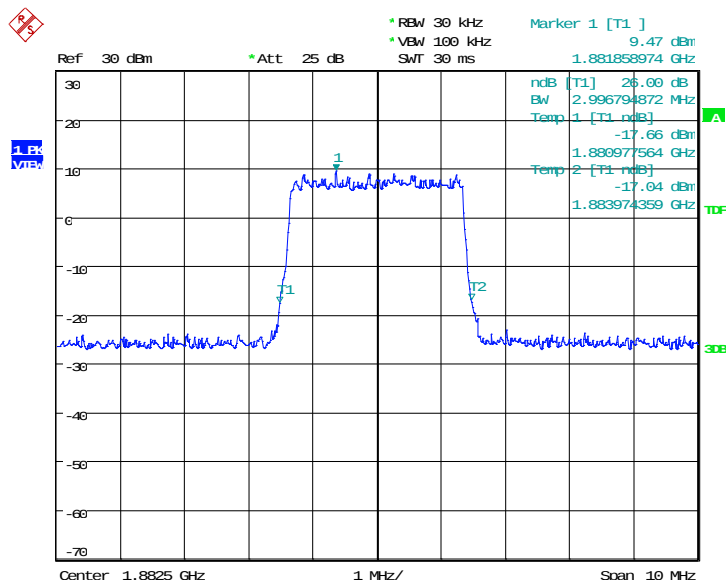


Date: 6.DEC.2019 05:02:37

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

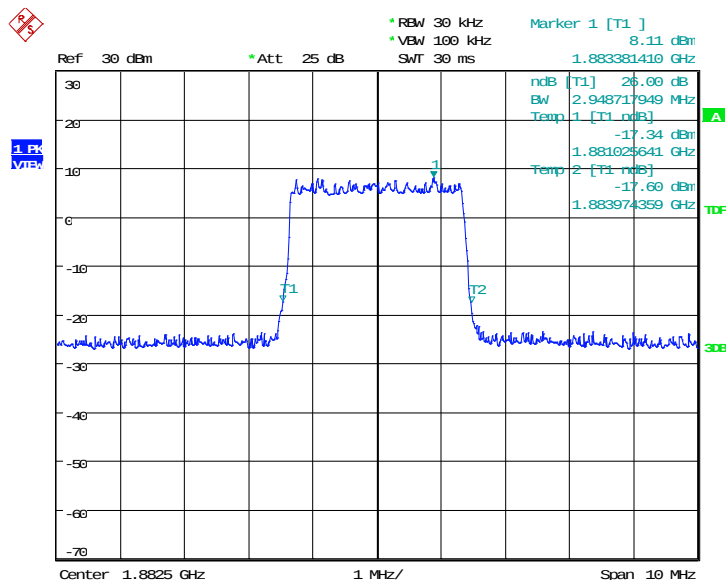
Frequency(MHz)	Emission Bandwidth (-26dBc BW)(kHz)		
1882.5	QPSK	16QAM	64QAM
	2996.79	2948.72	2980.77

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



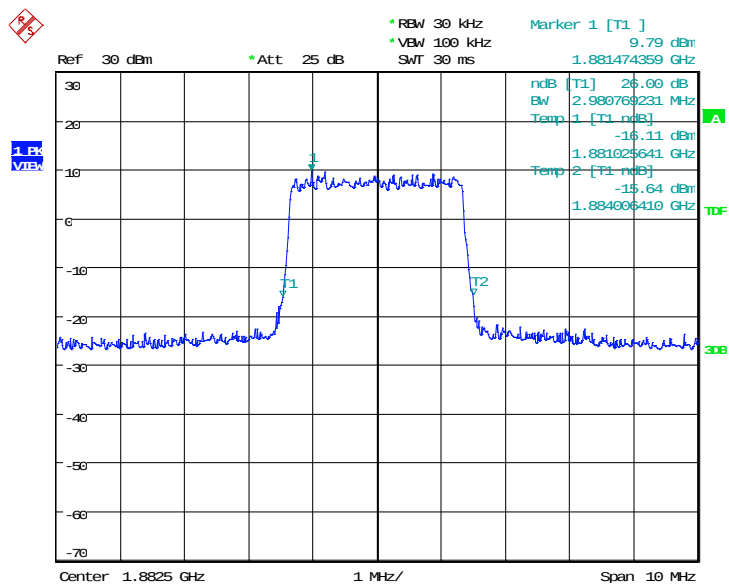
Date: 4.DEC.2019 11:40:01

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



Date: 4.DEC.2019 11:40:17

LTE band 25, 3MHz Bandwidth, 64QAM (-26dBc BW)

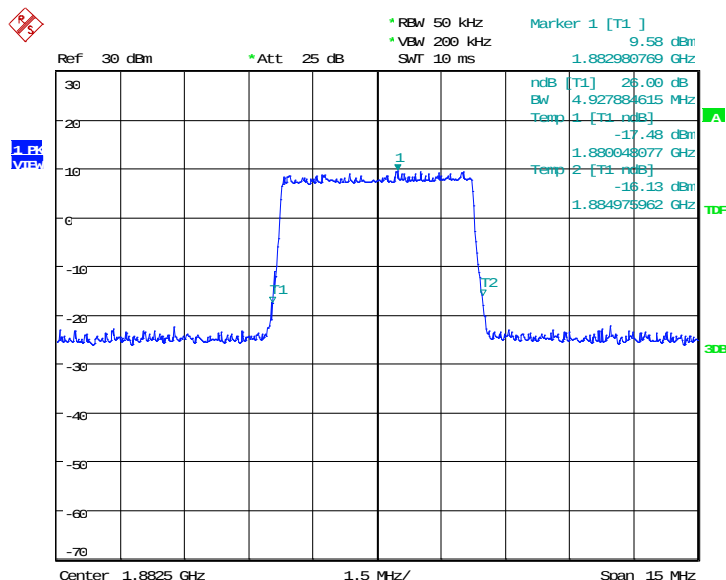


Date: 6.DEC.2019 05:06:07

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

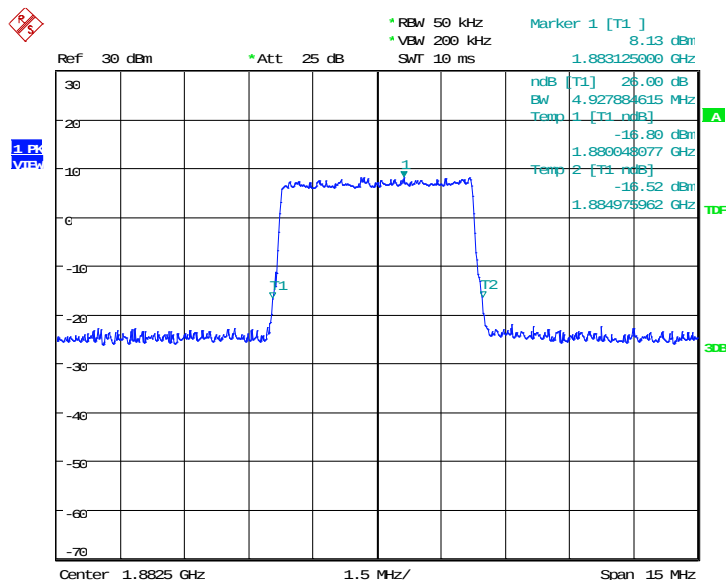
Frequency(MHz)	Emission Bandwidth (-26dBc BW)(kHz)		
1882.5	QPSK	16QAM	64QAM
	4927.88	4927.88	4927.88

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



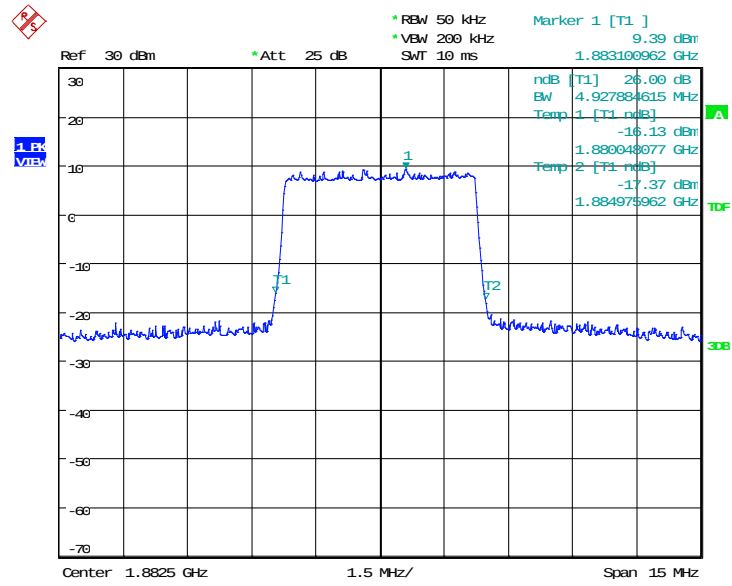
Date: 4.DEC.2019 11:44:22

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



Date: 4.DEC.2019 11:44:37

LTE band 25, 5MHz Bandwidth,64QAM (-26dBc BW)

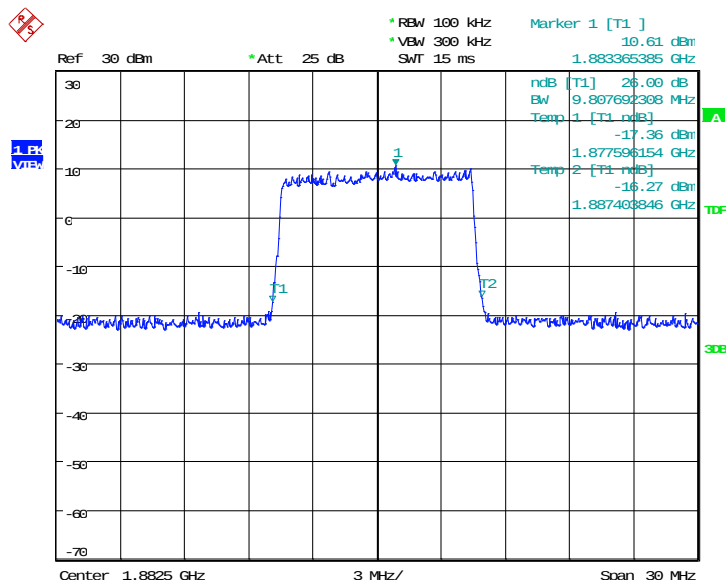


Date: 6.DEC.2019 05:09:34

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

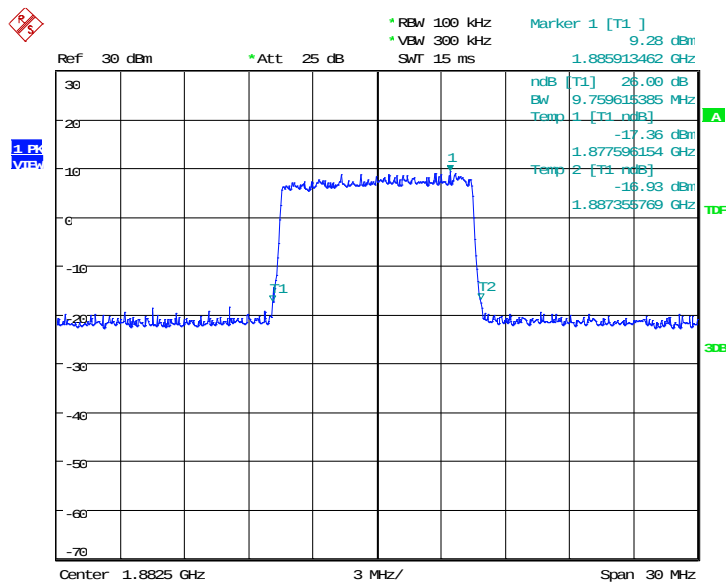
Frequency(MHz)	Emission Bandwidth (-26dBc BW)(kHz)		
1882.5	QPSK	16QAM	64QAM
	9807.69	9759.62	9807.69

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



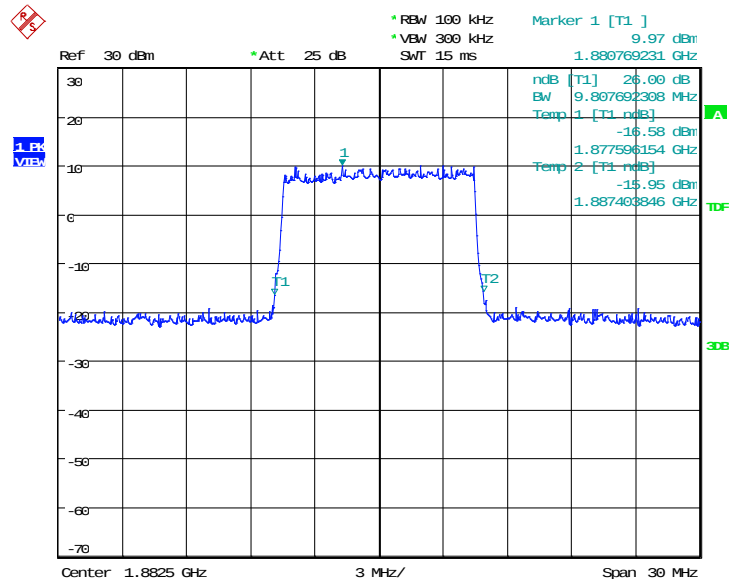
Date: 4.DEC.2019 11:48:42

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



Date: 4.DEC.2019 11:48:58

LTE band 25, 10MHz Bandwidth, 64QAM (-26dBc BW)

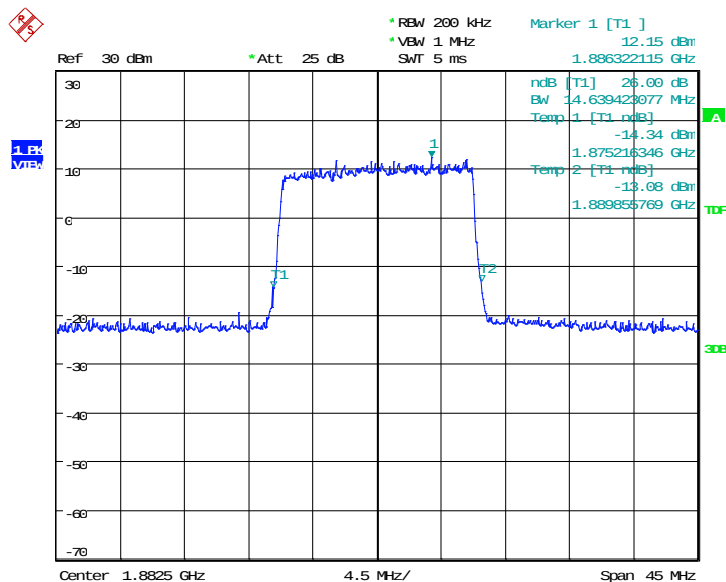


Date: 6.DEC.2019 05:13:04

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

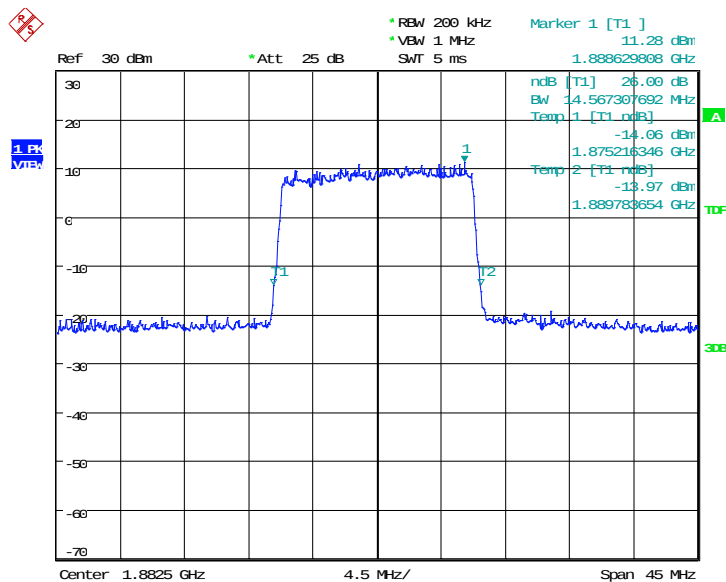
Frequency(MHz)	Emission Bandwidth (-26dBc BW)(kHz)		
1882.5	QPSK	16QAM	64QAM
	14639.42	14567.31	14639.42

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



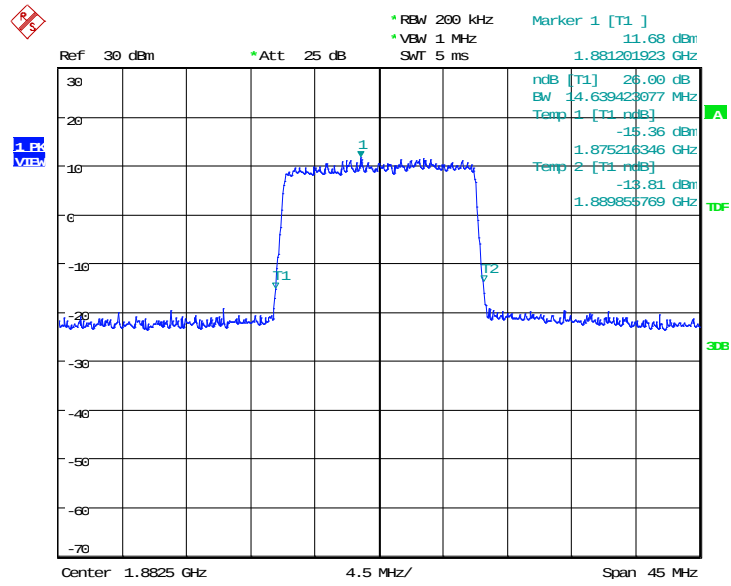
Date: 4.DEC.2019 12:02:10

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



Date: 4.DEC.2019 12:02:25

LTE band 25, 15MHz Bandwidth, 64QAM (-26dBc BW)

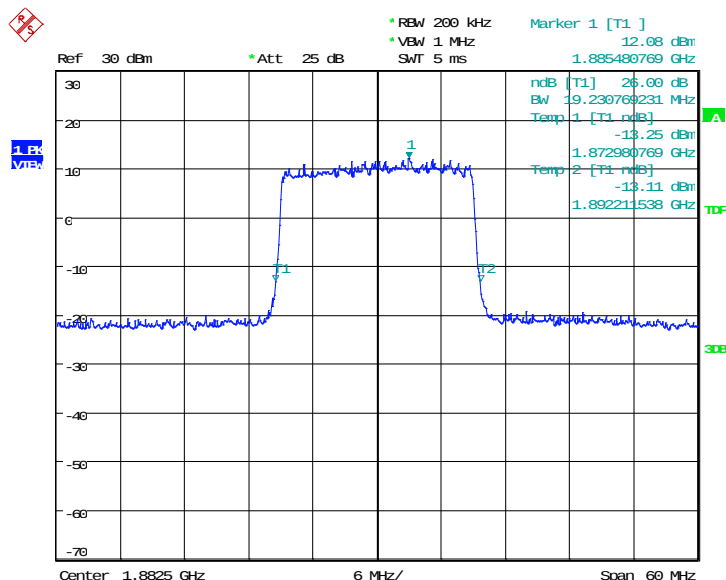


Date: 6.DEC.2019 05:34:16

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

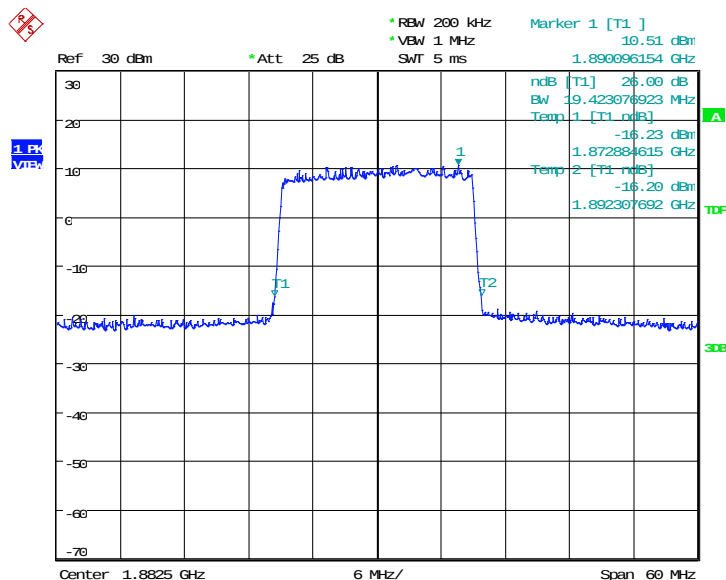
Frequency(MHz)	Emission Bandwidth (-26dBc BW)(kHz)		
1882.5	QPSK	16QAM	64QAM
	19230.77	19423.08	19326.92

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



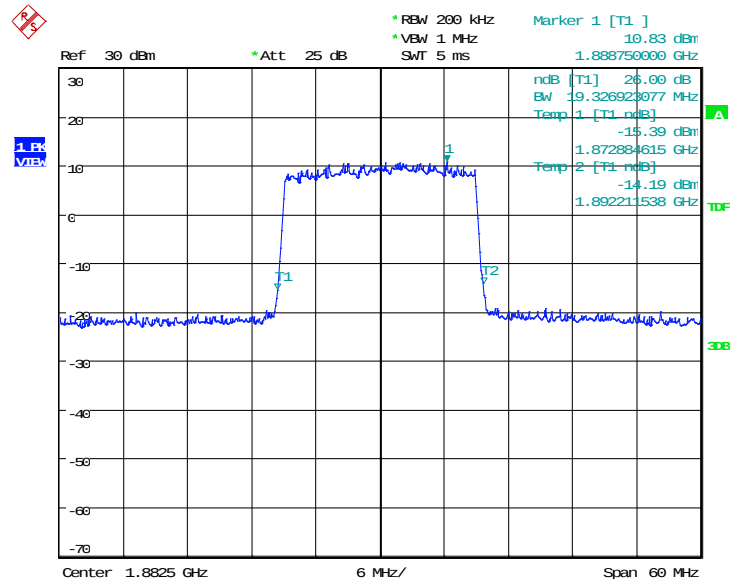
Date: 5.DEC.2019 12:52:11

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



Date: 5.DEC.2019 12:52:26

LTE band 25, 20MHz Bandwidth, 64QAM (-26dBc BW)

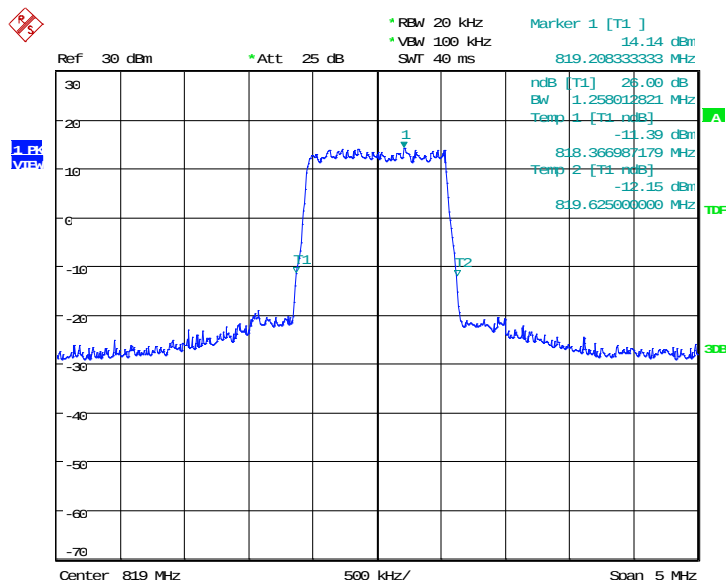


Date: 6.DEC.2019 05:43:30

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

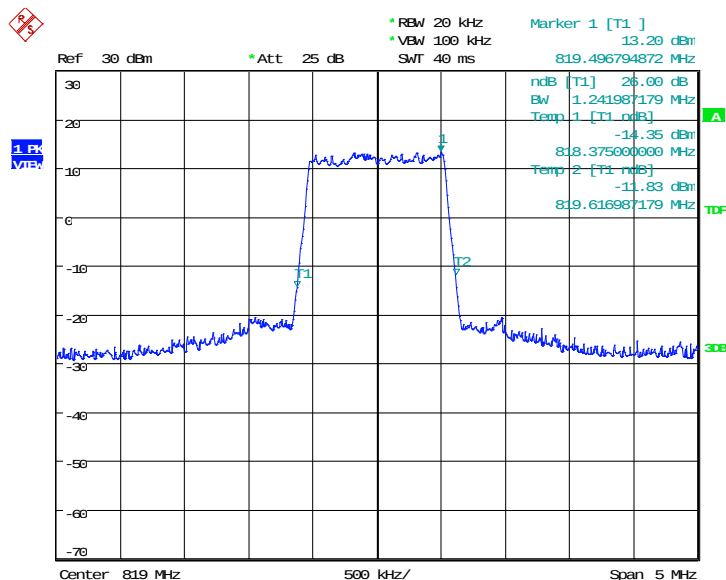
Frequency(MHz)	Emission Bandwidth (-26dBc BW)(kHz)		
	QPSK	16QAM	64QAM
836.5	1258.01	1241.99	1241.99

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



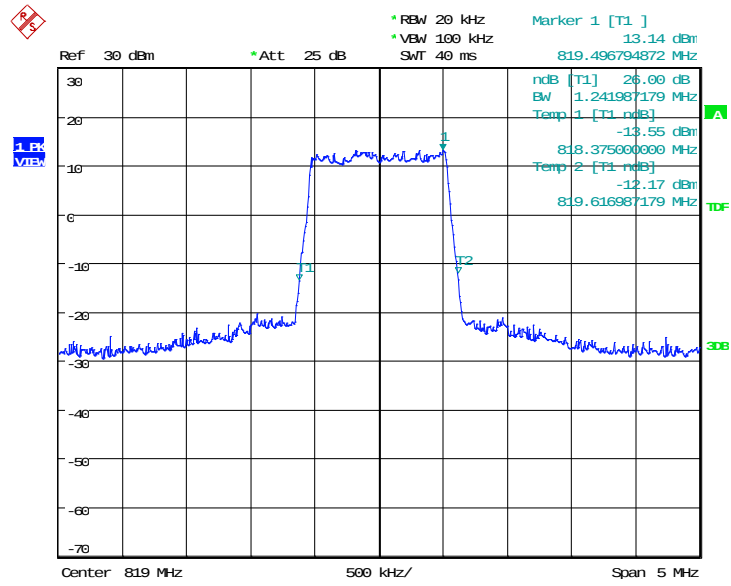
Date: 4.DEC.2019 14:02:29

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



Date: 4.DEC.2019 14:02:45

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

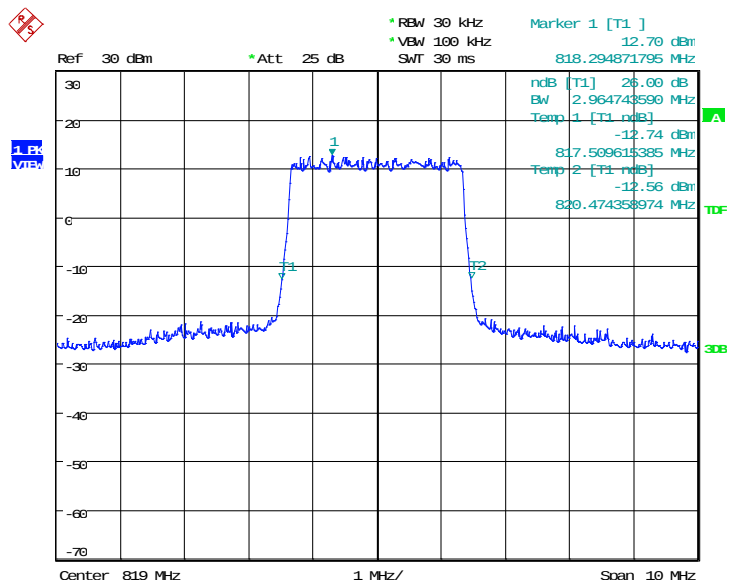


Date: 6.DEC.2019 06:11:43

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

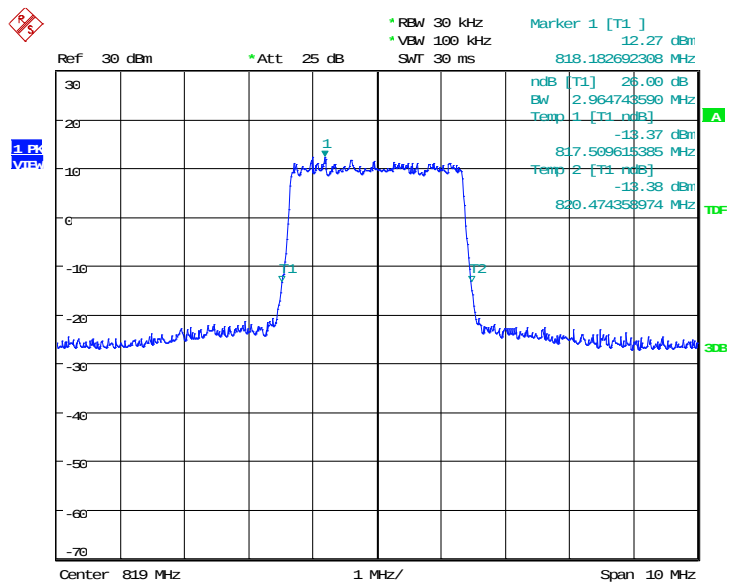
Frequency(MHz)	Emission Bandwidth (-26dBc BW)(kHz)		
836.5	QPSK	16QAM	64QAM
	2964.74	2964.74	2980.77

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



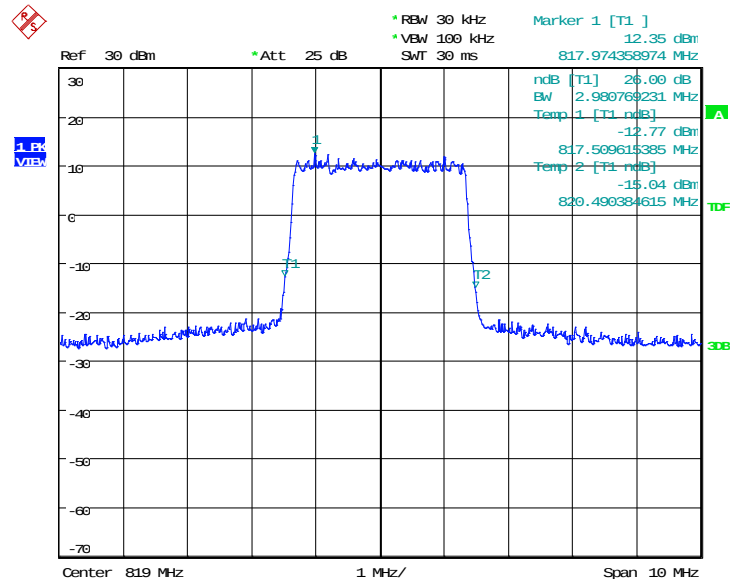
Date: 4.DEC.2019 14:06:50

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



Date: 4.DEC.2019 14:07:06

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

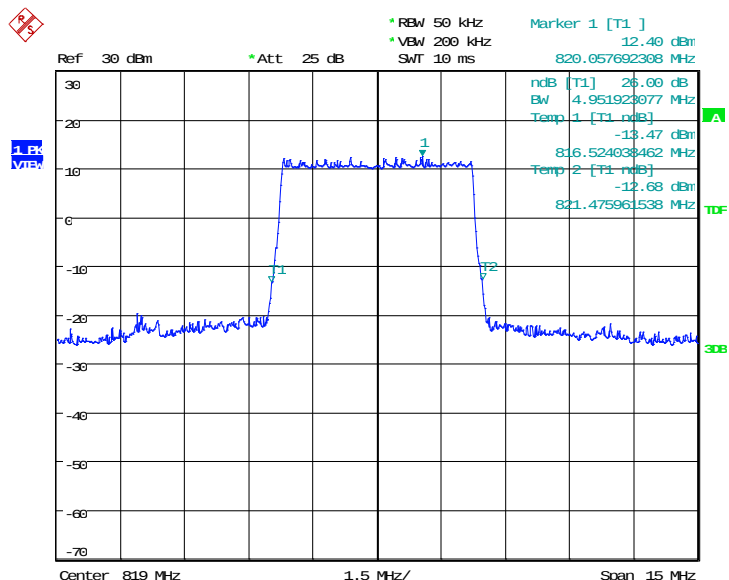


Date: 6.DEC.2019 06:14:59

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

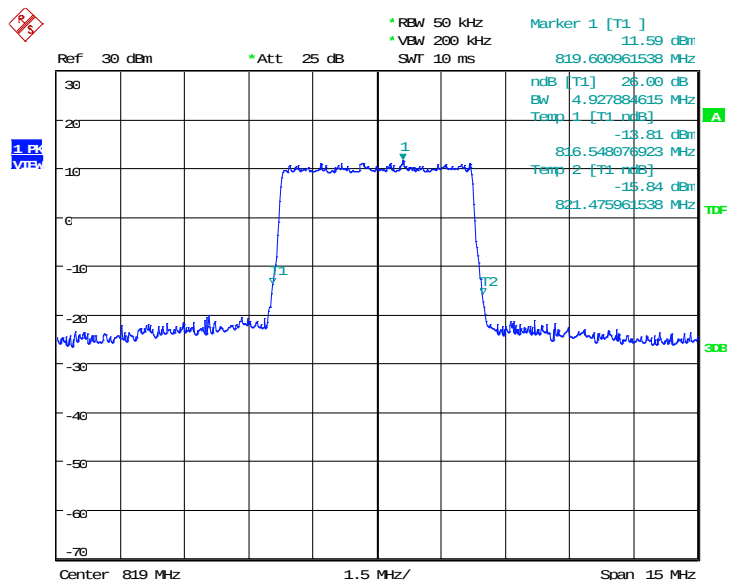
Frequency(MHz)	Emission Bandwidth (-26dBc BW)(kHz)		
836.5	QPSK	16QAM	64QAM
	4951.92	4927.88	4903.85

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



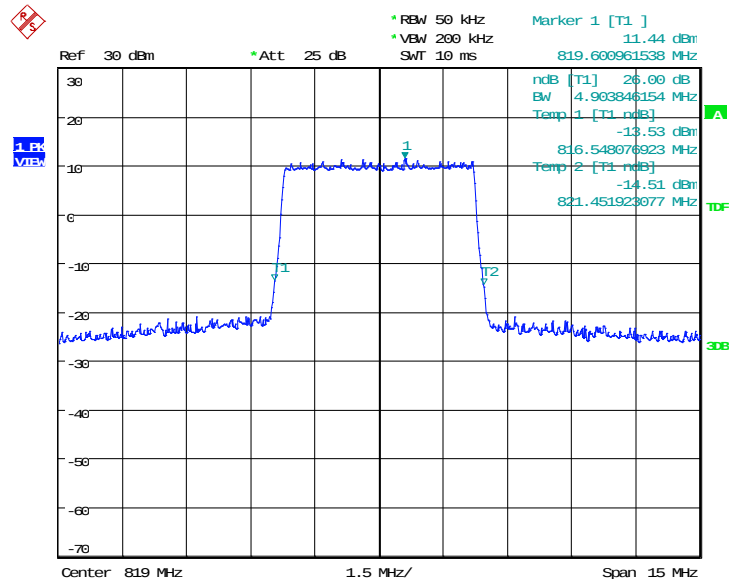
Date: 4.DEC.2019 14:11:10

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



Date: 4.DEC.2019 14:11:26

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

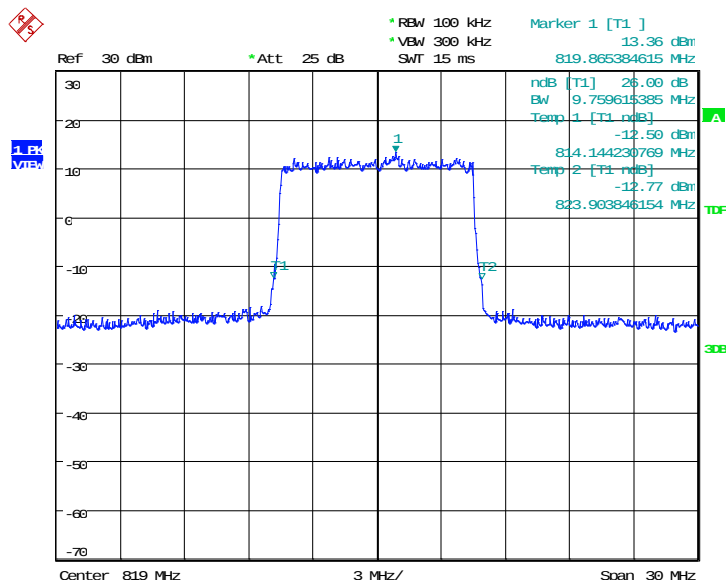


Date: 6.DEC.2019 06:17:42

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

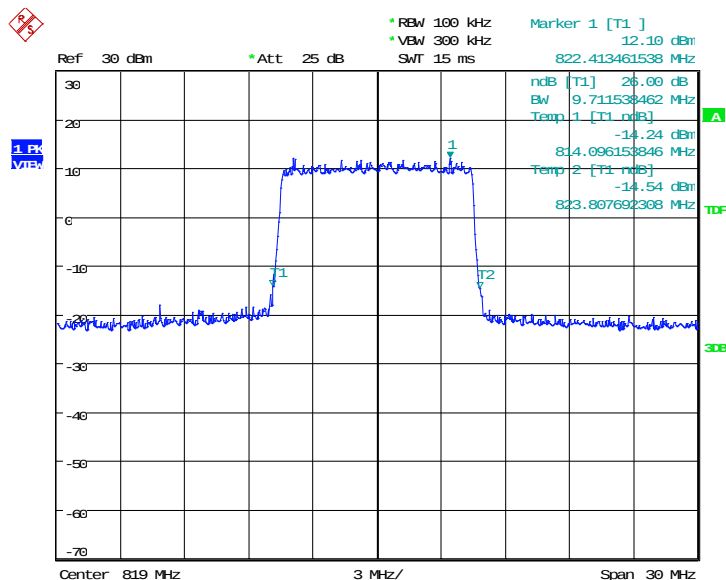
Frequency(MHz)	Emission Bandwidth (-26dBc BW)(kHz)		
836.5	QPSK	16QAM	64QAM
	9759.62	9711.54	9711.54

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



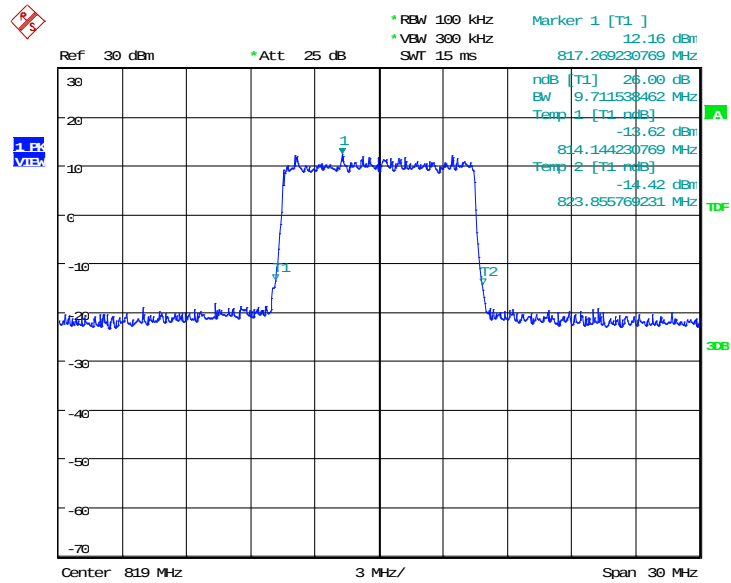
Date: 5.DEC.2019 12:43:39

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



Date: 5.DEC.2019 12:43:55

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

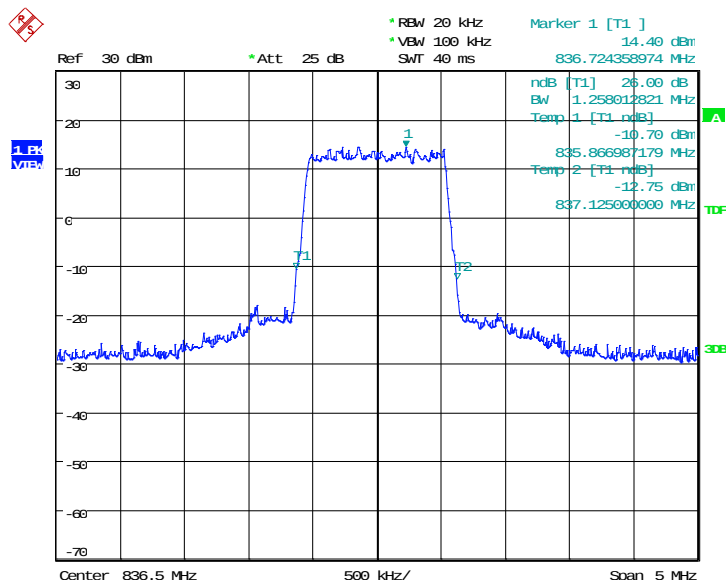


Date: 6.DEC.2019 06:20:27

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

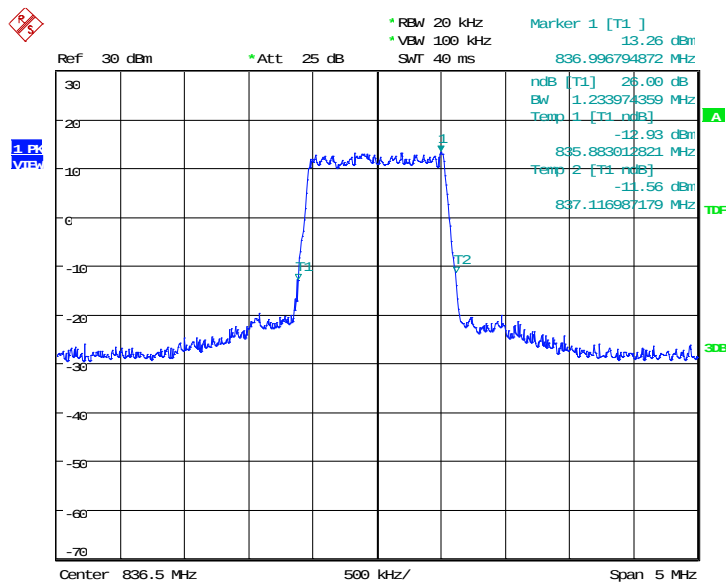
Frequency(MHz)	Emission Bandwidth (-26dBc BW)(kHz)		
836.5	QPSK	16QAM	64QAM
	1258.01	1233.97	1241.99

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



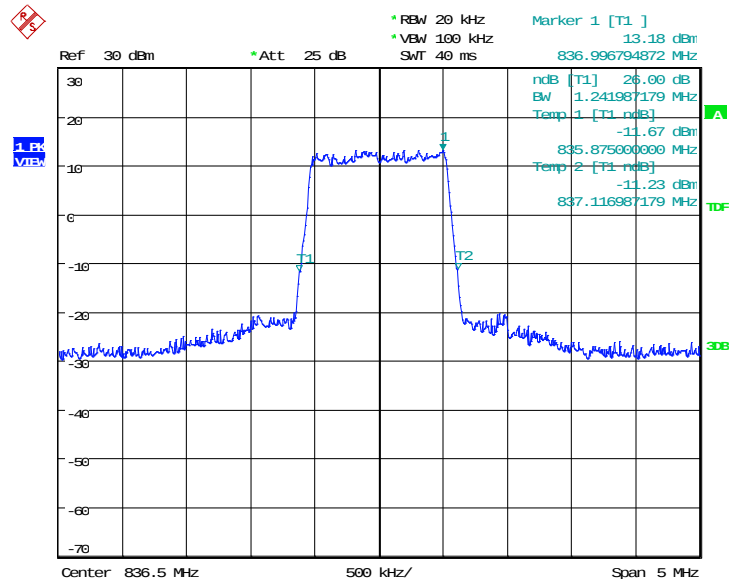
Date: 4.DEC.2019 13:40:48

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



Date: 4.DEC.2019 13:41:03

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

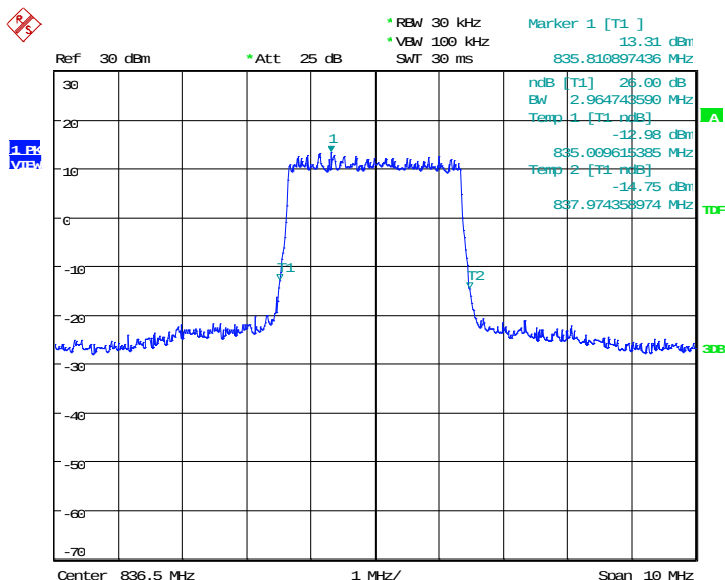


Date: 6.DEC.2019 05:58:03

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

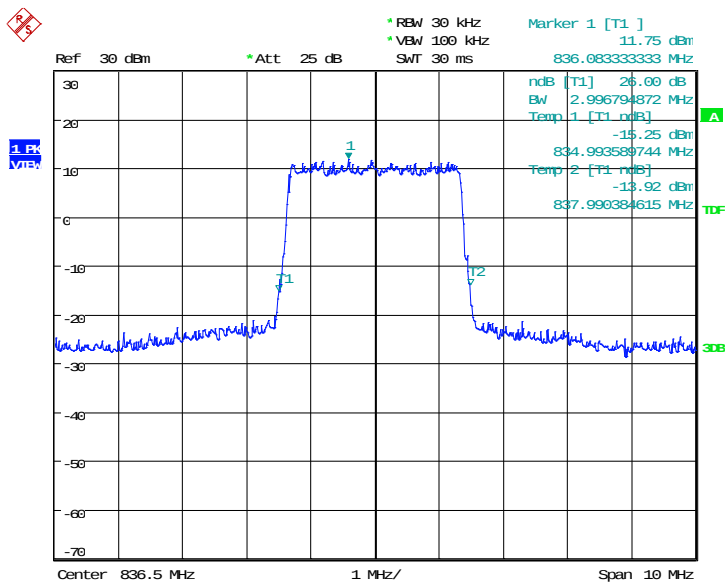
Frequency(MHz)	Emission Bandwidth (-26dBc BW)(kHz)		
836.5	QPSK	16QAM	64QAM
	2964.74	2996.79	2964.74

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



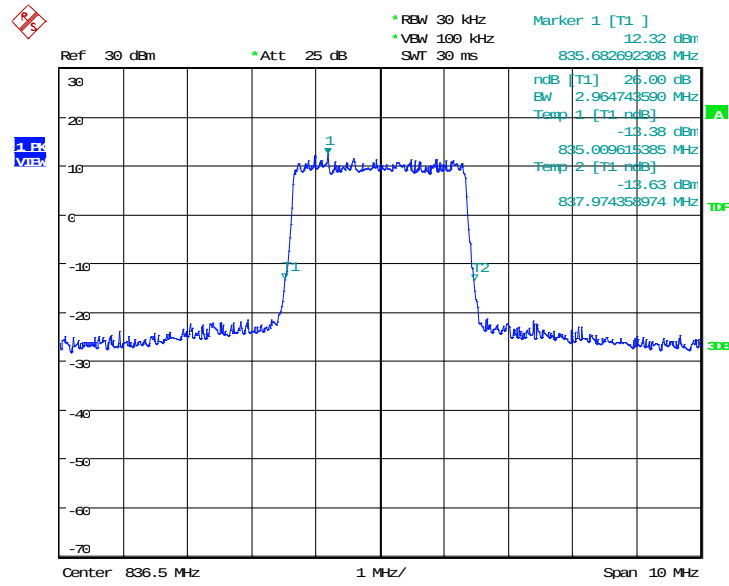
Date: 4.DEC.2019 13:45:08

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



Date: 4.DEC.2019 13:45:23

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

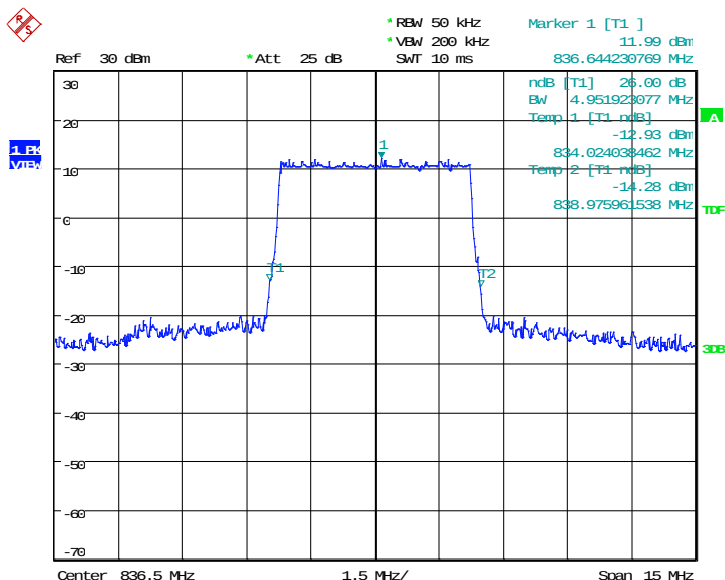


Date: 6.DEC.2019 06:00:49

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

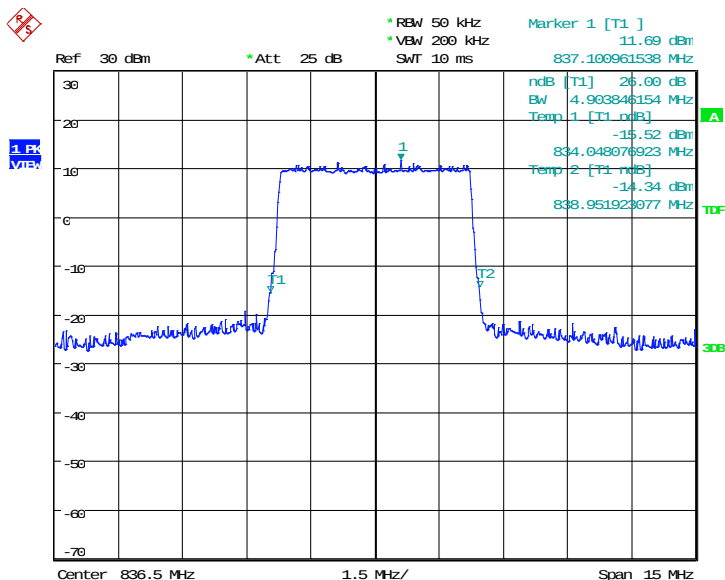
Frequency(MHz)	Emission Bandwidth (-26dBc BW)(kHz)		
836.5	QPSK	16QAM	64QAM
	4951.92	4903.85	4903.85

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



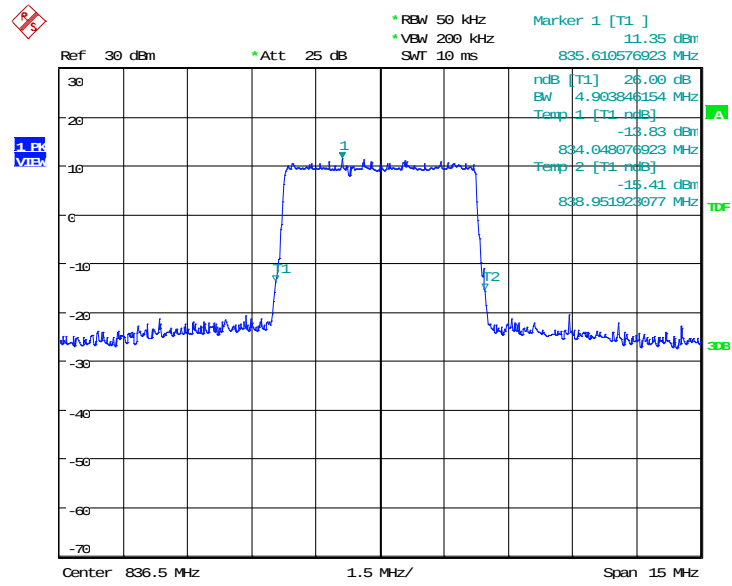
Date: 4.DEC.2019 13:49:30

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



Date: 4.DEC.2019 13:49:46

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

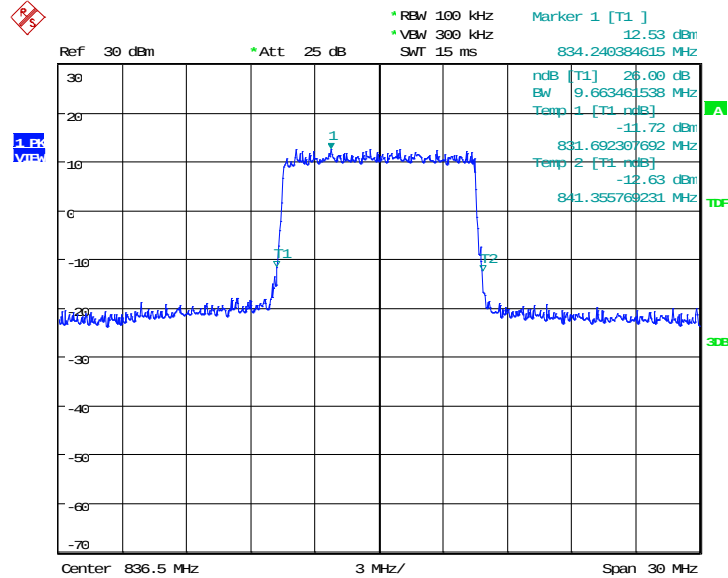


Date: 6.DEC.2019 06:03:32

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

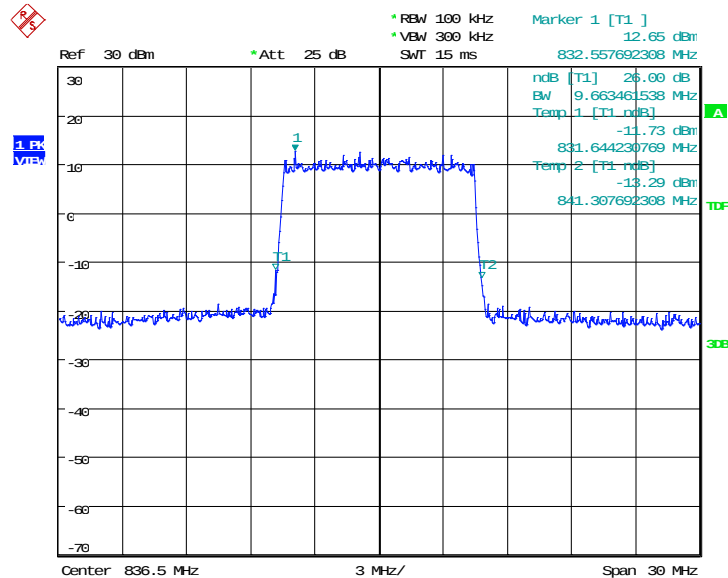
Frequency(MHz)	Emission Bandwidth (-26dBc BW)(kHz)		
836.5	QPSK	16QAM	64QAM
	9663.46	9663.46	9711.54

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



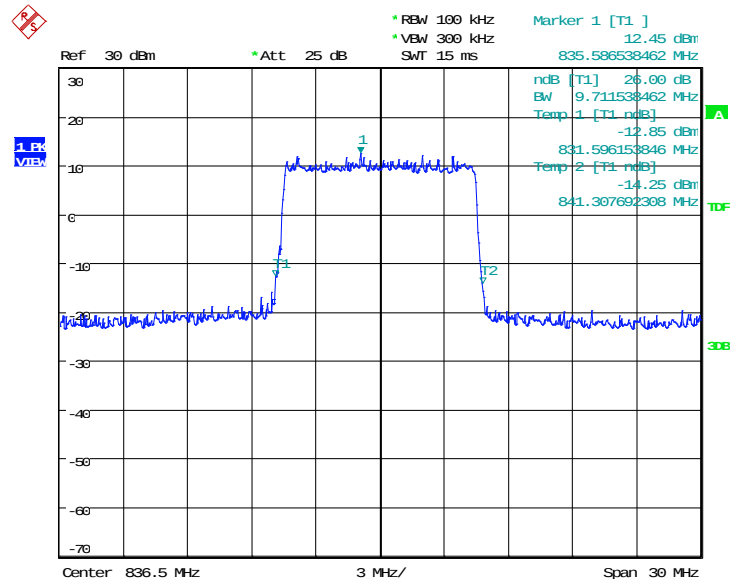
Date: 4.DEC.2019 13:53:51

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



Date: 4.DEC.2019 13:54:07

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

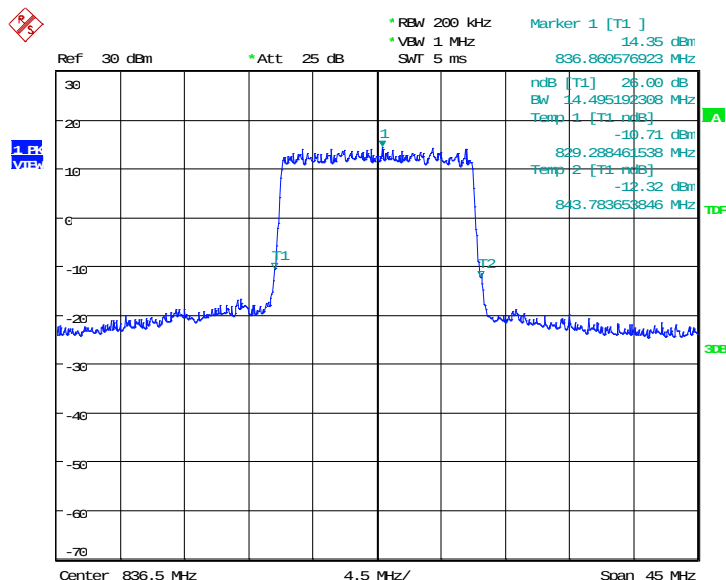


Date: 6.DEC.2019 06:06:15

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

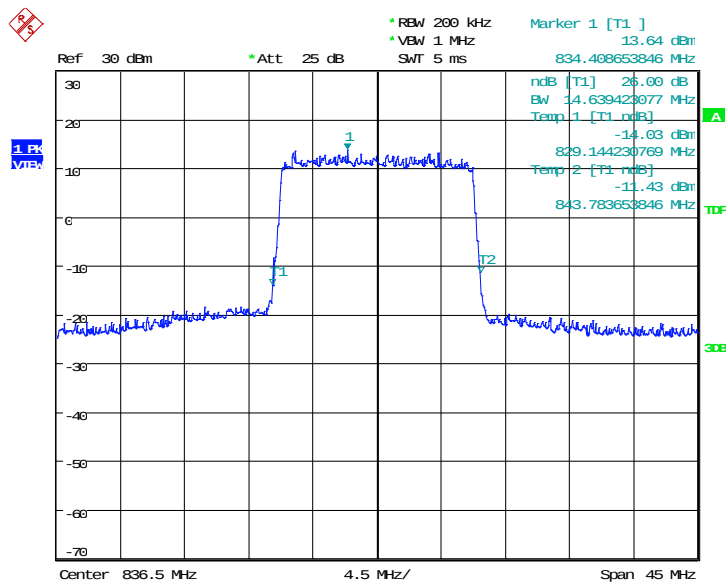
Frequency(MHz)	Emission Bandwidth (-26dBc BW)(kHz)		
836.5	QPSK	16QAM	64QAM
	14495.19	14639.42	14567.31

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



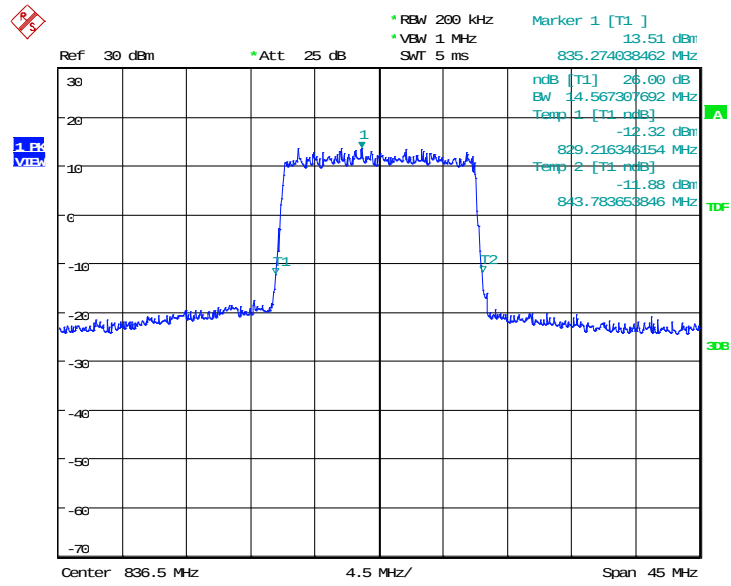
Date: 4.DEC.2019 13:58:09

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



Date: 4.DEC.2019 13:58:25

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



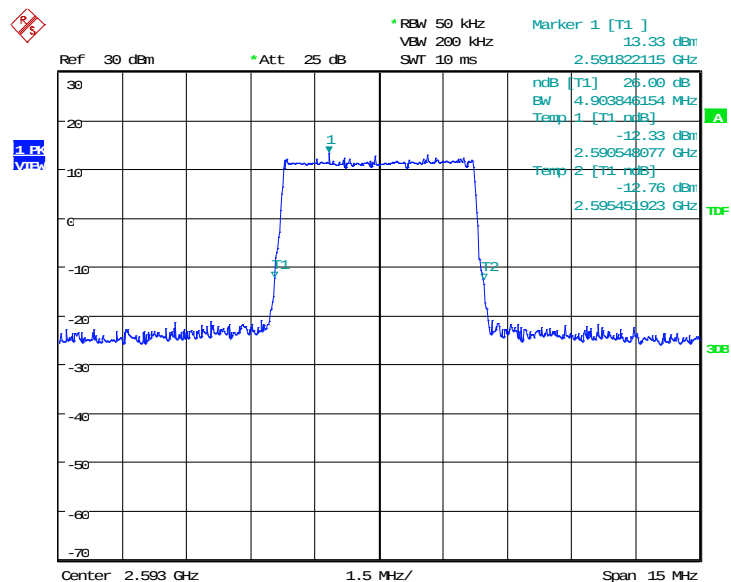
Date: 6.DEC.2019 06:08:58

Normal Power

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

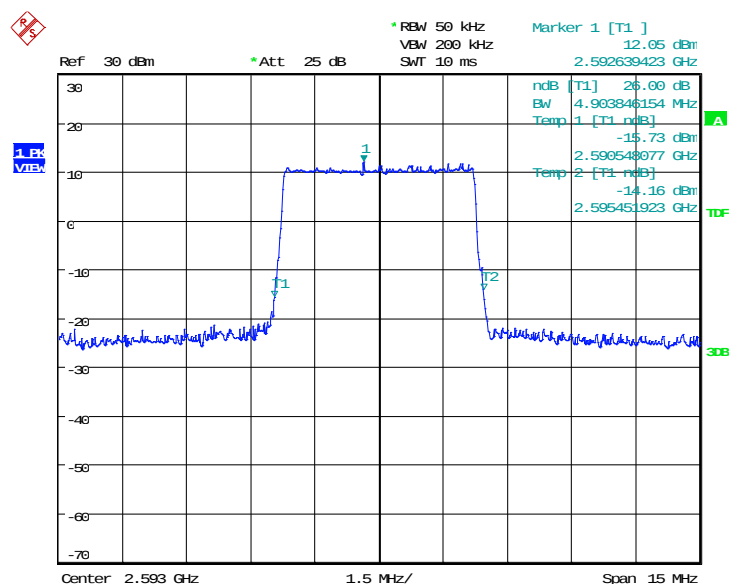
Frequency(MHz)	Emission Bandwidth (-26dBc BW)(kHz)		
2593.0	QPSK	16QAM	64QAM
	4903.85	4903.85	4855.77

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



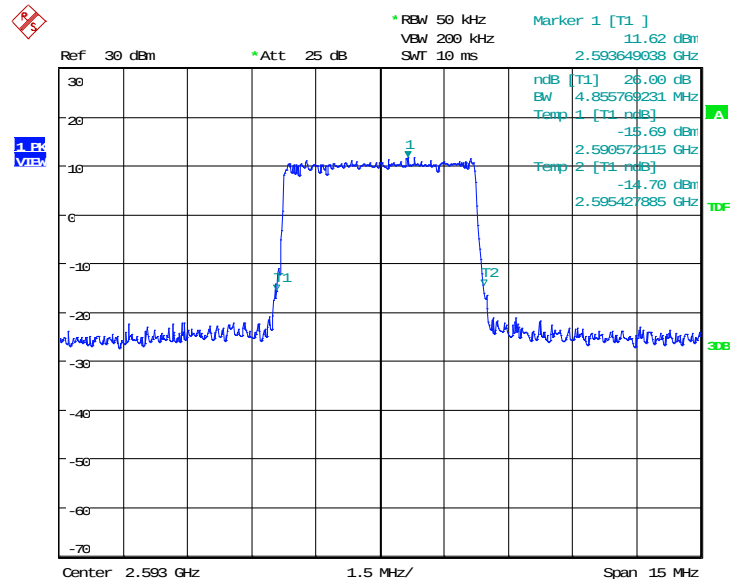
Date: 15.DEC.2019 07:48:36

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



Date: 15.DEC.2019 07:49:04

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

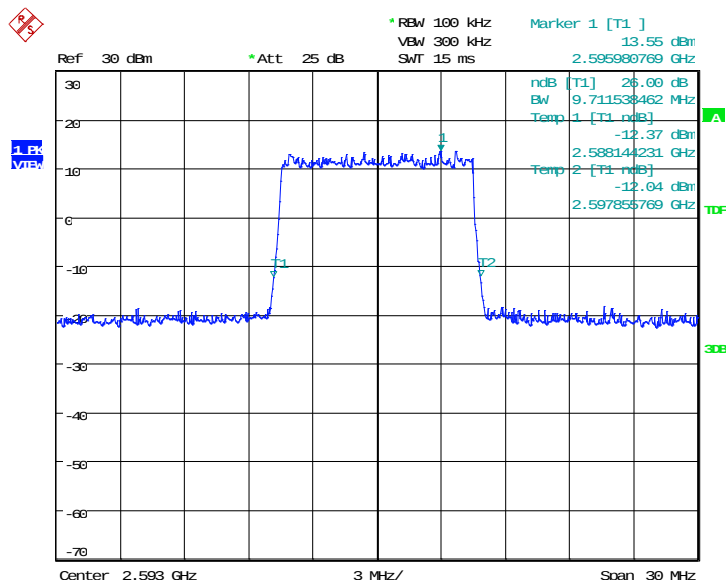


Date: 15.DEC.2019 07:49:43

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

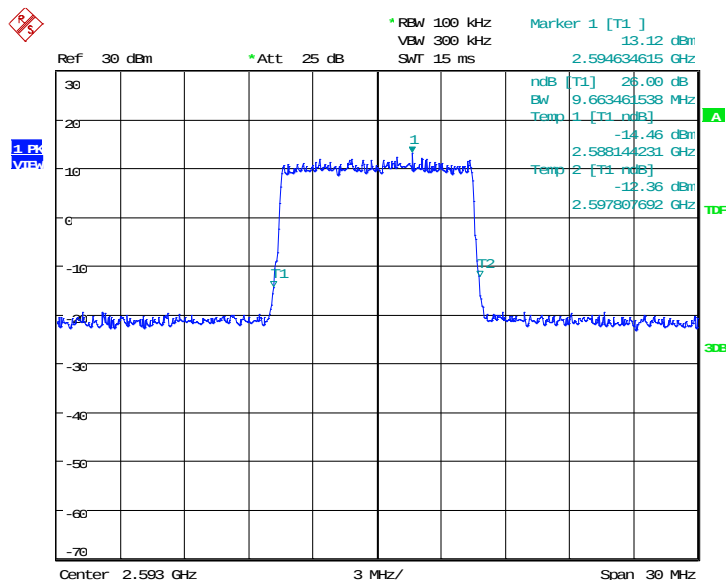
Frequency(MHz)	Emission Bandwidth (-26dBc BW)(kHz)		
2593.0	QPSK	16QAM	64QAM
	9711.54	9663.46	9663.46

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



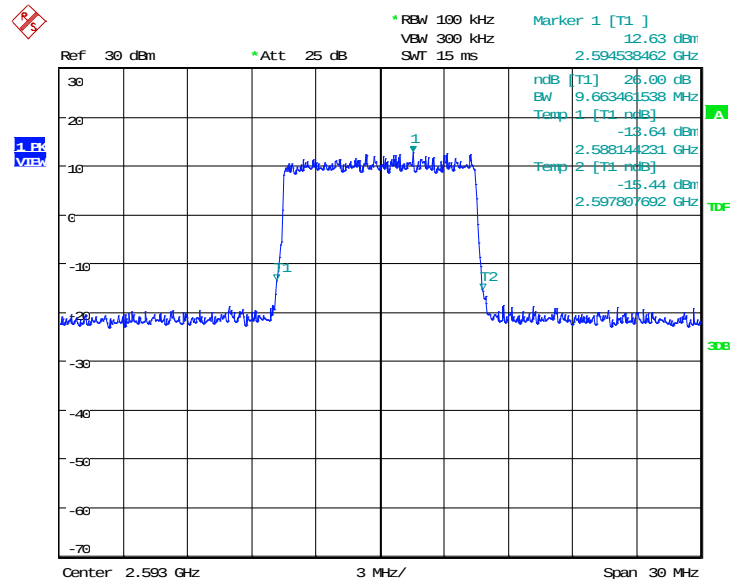
Date: 15.DEC.2019 07:52:34

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



Date: 15.DEC.2019 07:52:57

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

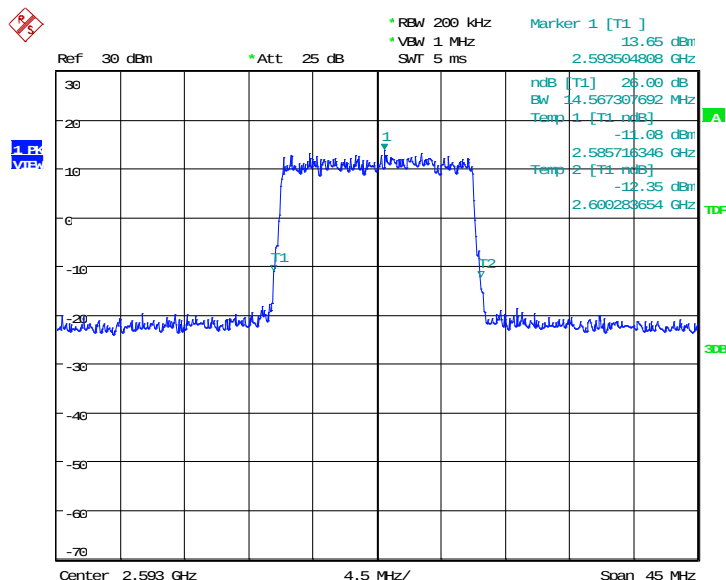


Date: 15.DEC.2019 07:53:25

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

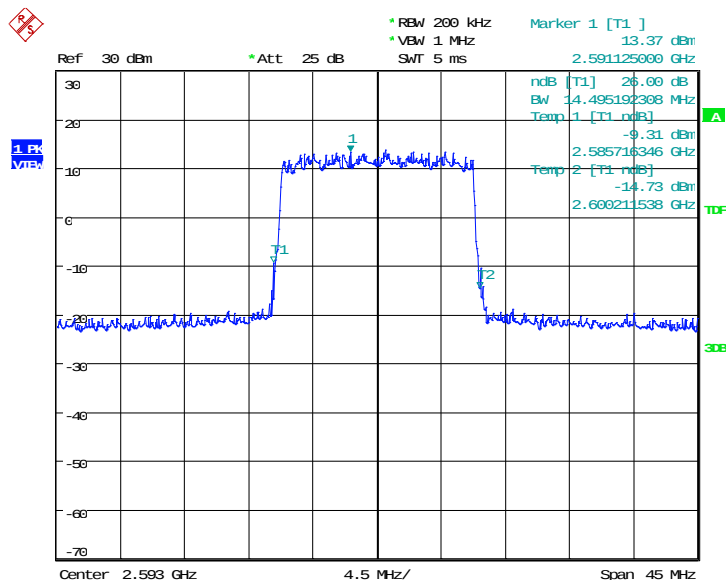
Frequency(MHz)	Emission Bandwidth (-26dBc BW)(kHz)		
2593.0	QPSK	16QAM	64QAM
	14567.31	14495.19	14567.31

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



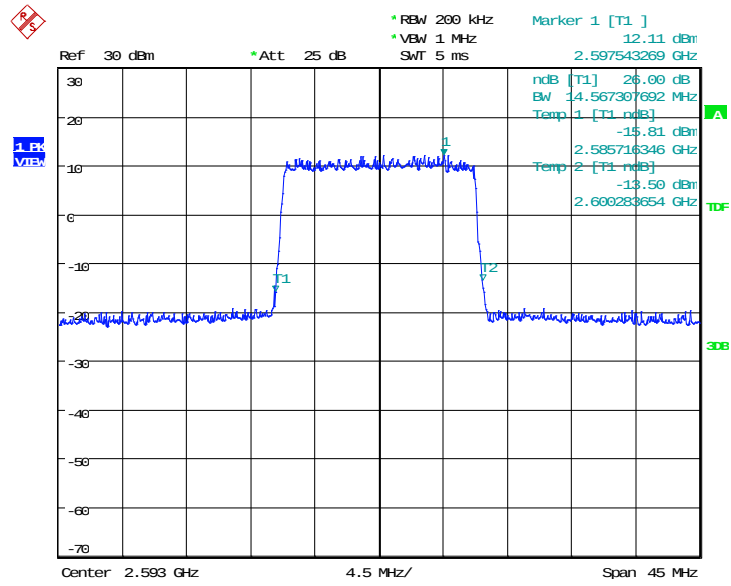
Date: 15.DEC.2019 07:57:29

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



Date: 15.DEC.2019 07:58:39

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

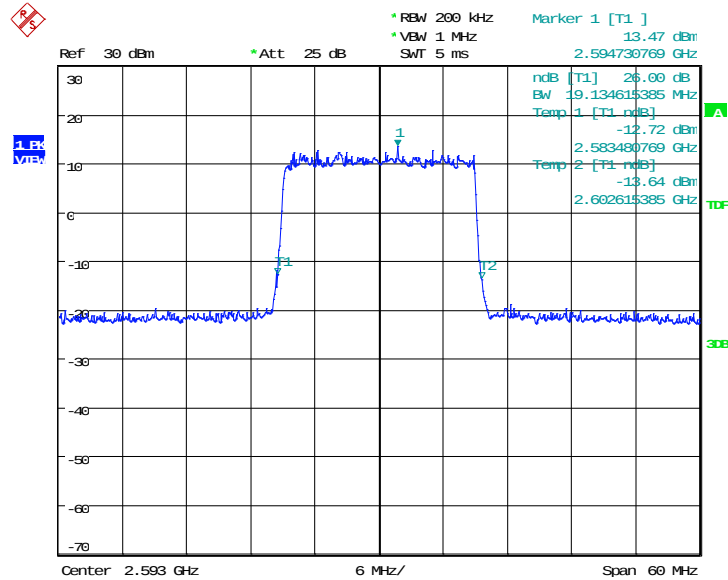


Date: 15.DEC.2019 07:59:24

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

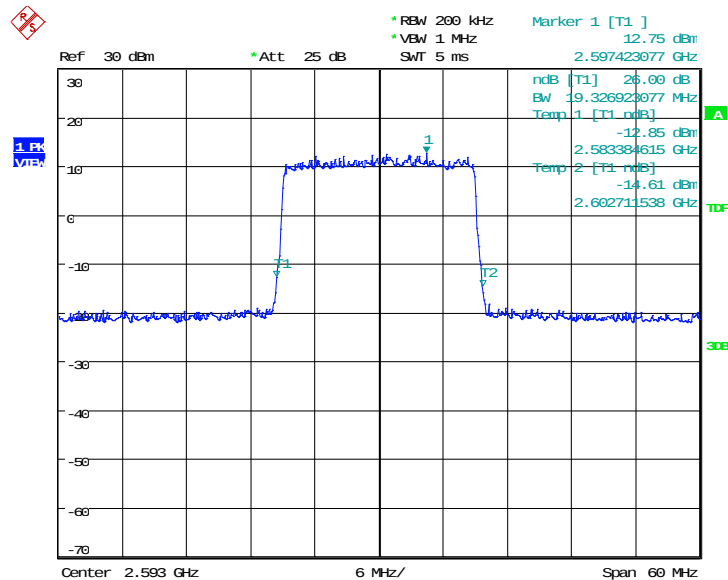
Frequency(MHz)	Emission Bandwidth (-26dBc BW)(kHz)		
2593.0	QPSK	16QAM	64QAM
	19134.62	19326.92	19134.62

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



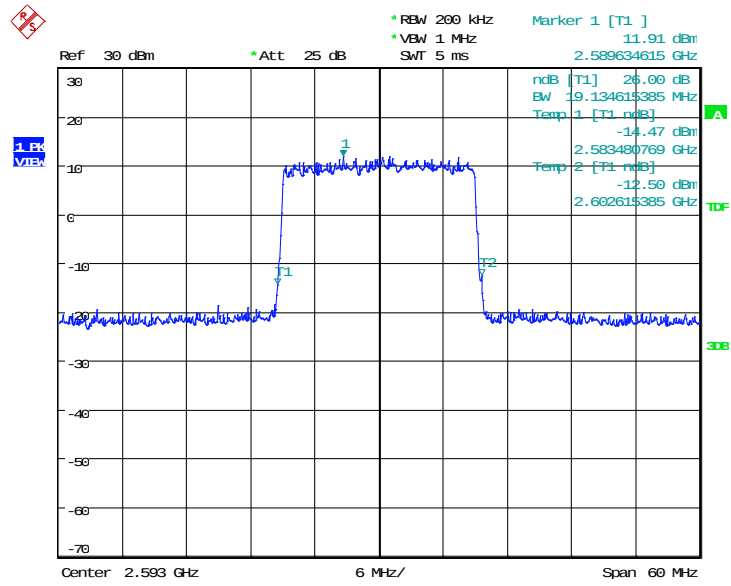
Date: 15.DEC.2019 08:02:23

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



Date: 15.DEC.2019 08:03:06

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



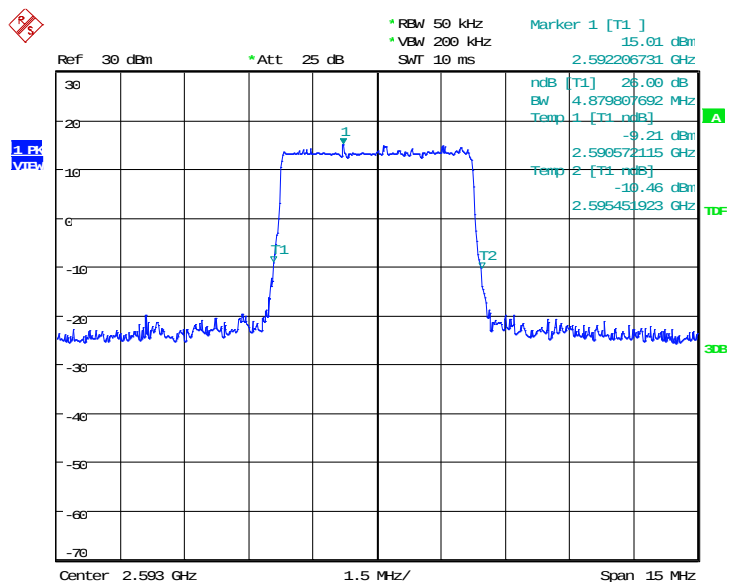
Date: 15.DEC.2019 08:03:56

HPUE

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

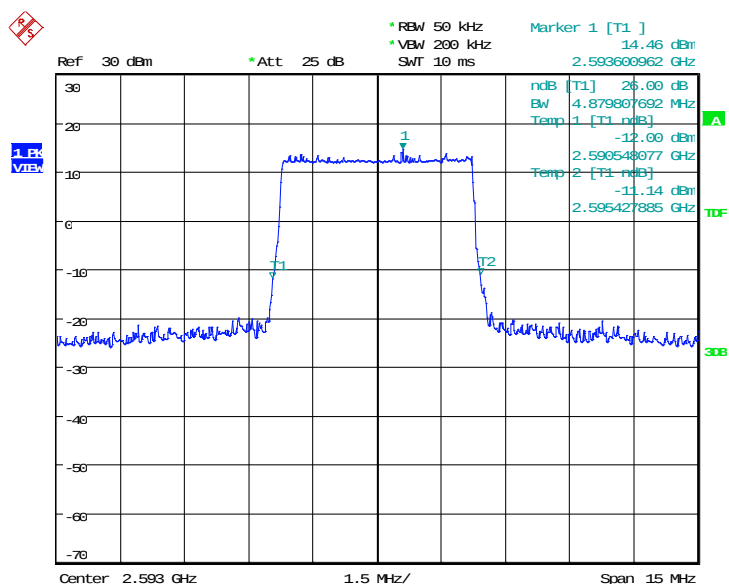
Frequency(MHz)	Emission Bandwidth (-26dBc BW)(kHz)		
2593.0	QPSK	16QAM	64QAM
	4879.81	4879.81	4879.81

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



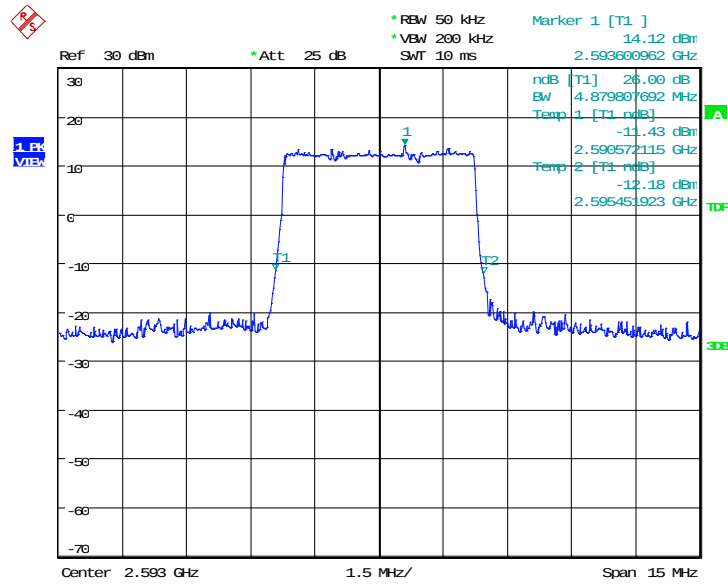
Date: 4.DEC.2019 12:50:29

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



Date: 4.DEC.2019 12:50:45

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

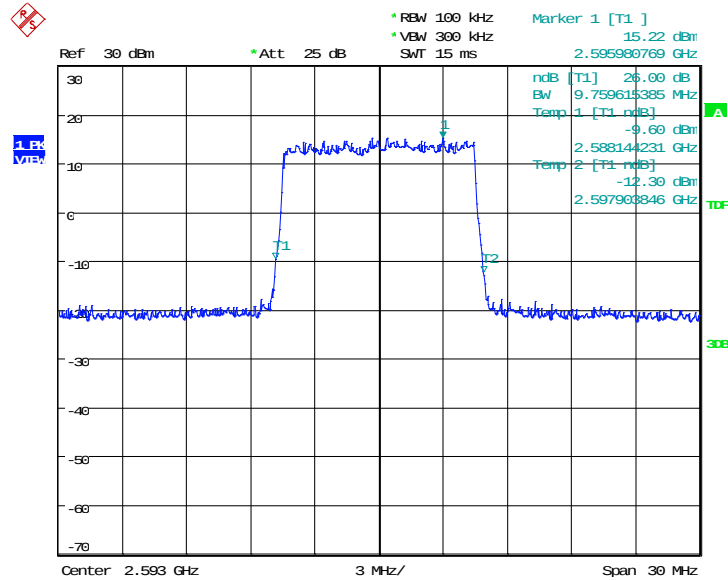


Date: 6.DEC.2019 05:47:00

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

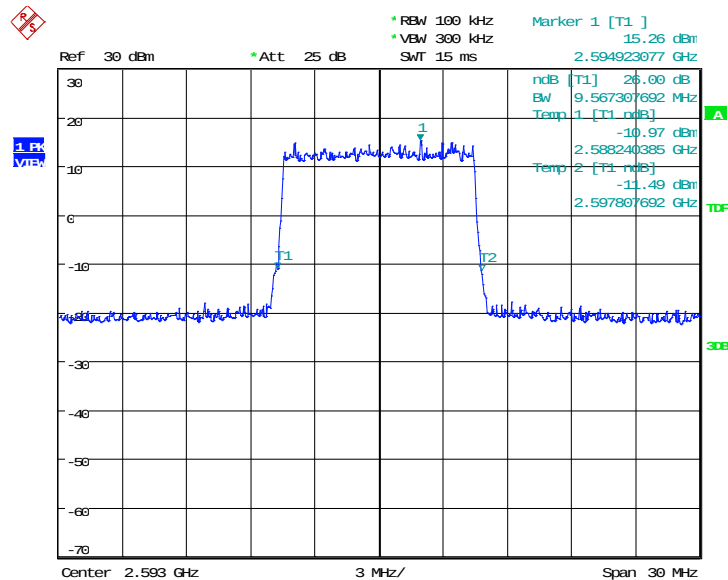
Frequency(MHz)	Emission Bandwidth (-26dBc BW)(kHz)		
2593.0	QPSK	16QAM	64QAM
	9759.62	9567.31	9663.46

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



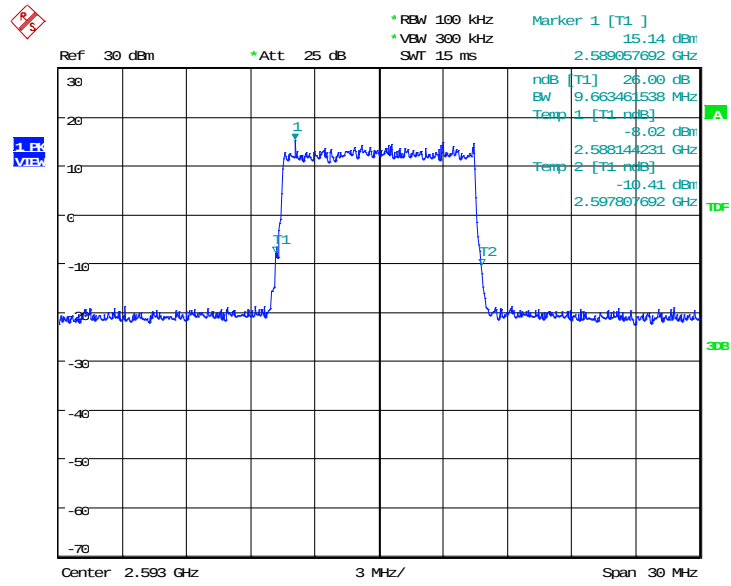
Date: 4.DEC.2019 12:54:50

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



Date: 4.DEC.2019 12:55:06

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

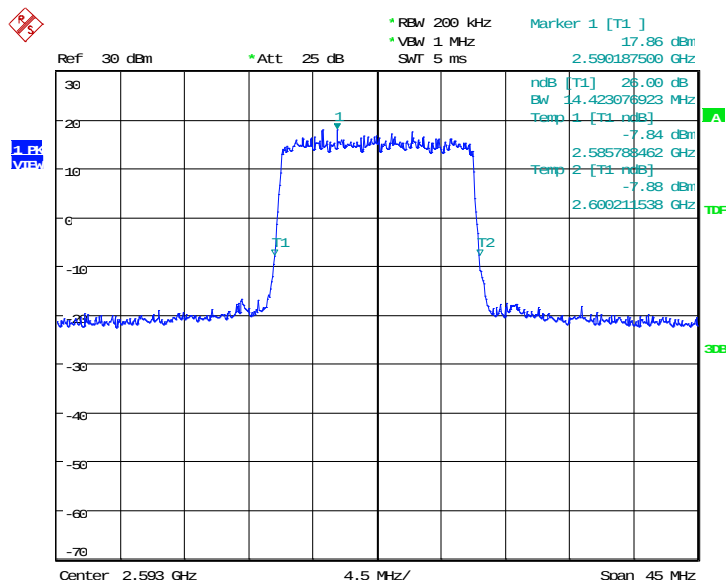


Date: 6.DEC.2019 05:49:43

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

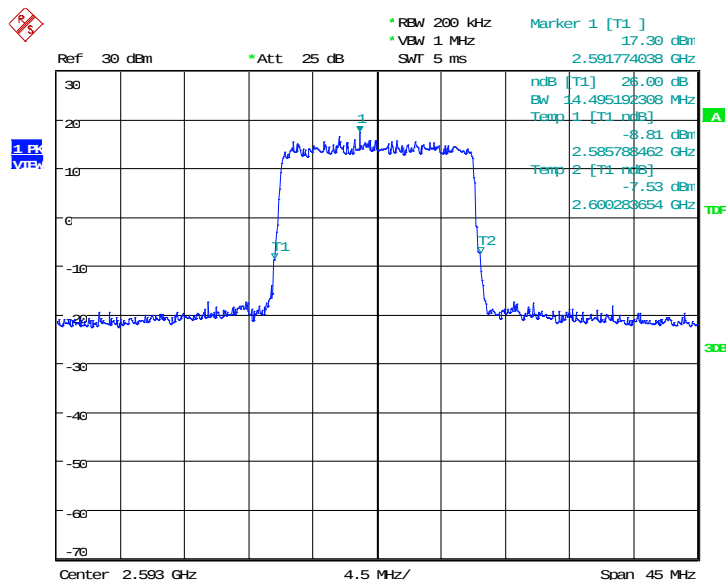
Frequency(MHz)	Emission Bandwidth (-26dBc BW)(kHz)		
2593.0	QPSK	16QAM	64QAM
	14423.08	14495.19	14567.31

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



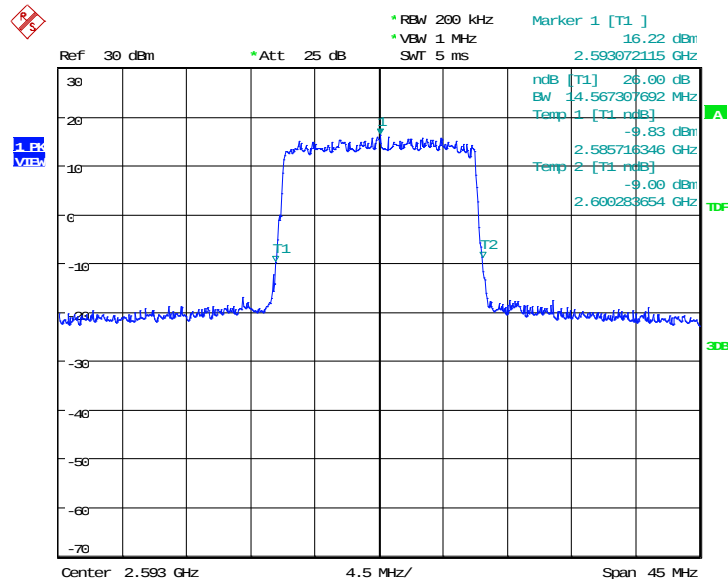
Date: 4.DEC.2019 12:59:09

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



Date: 4.DEC.2019 12:59:24

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

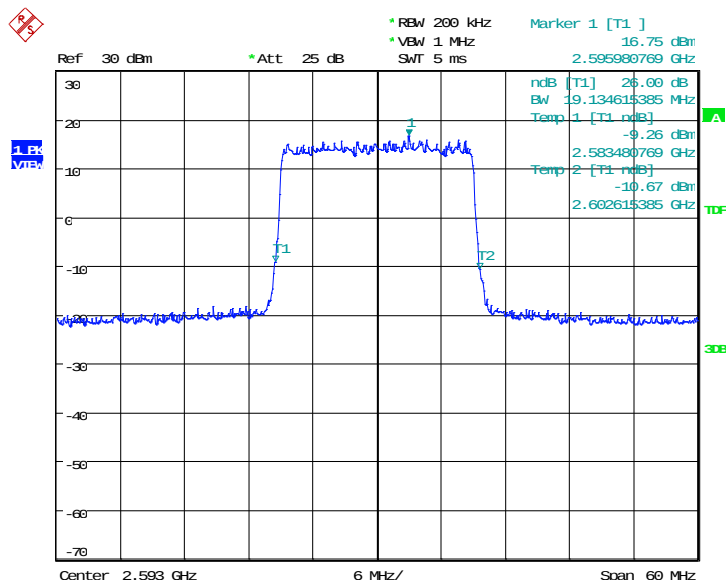


Date: 6.DEC.2019 05:52:29

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

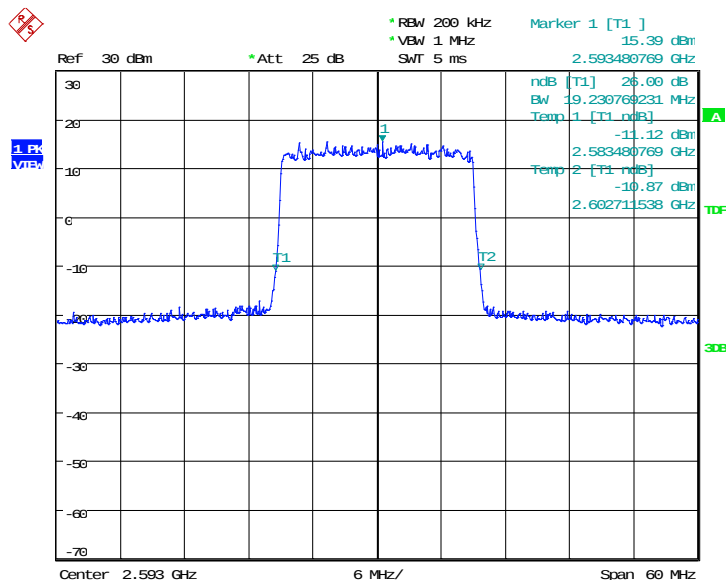
Frequency(MHz)	Emission Bandwidth (-26dBc BW)(kHz)		
2593.0	QPSK	16QAM	64QAM
	19134.62	19230.77	19134.62

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



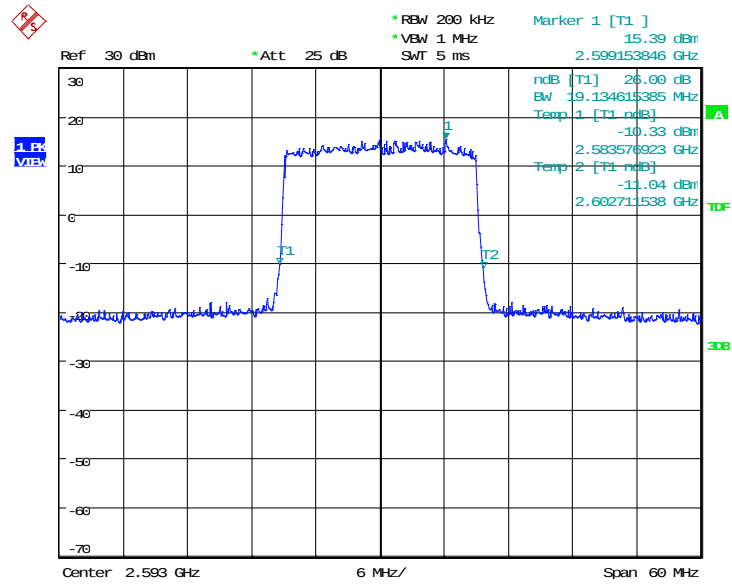
Date: 4.DEC.2019 13:03:30

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



Date: 4.DEC.2019 13:03:46

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

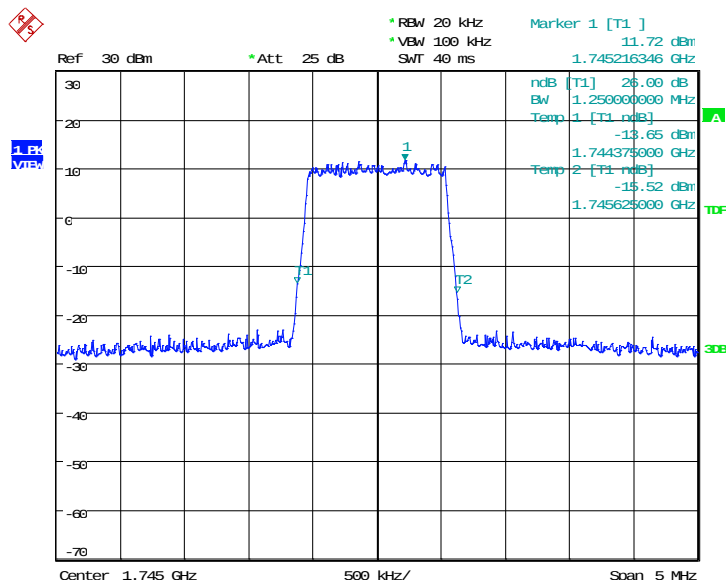


Date: 6.DEC.2019 05:55:14

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

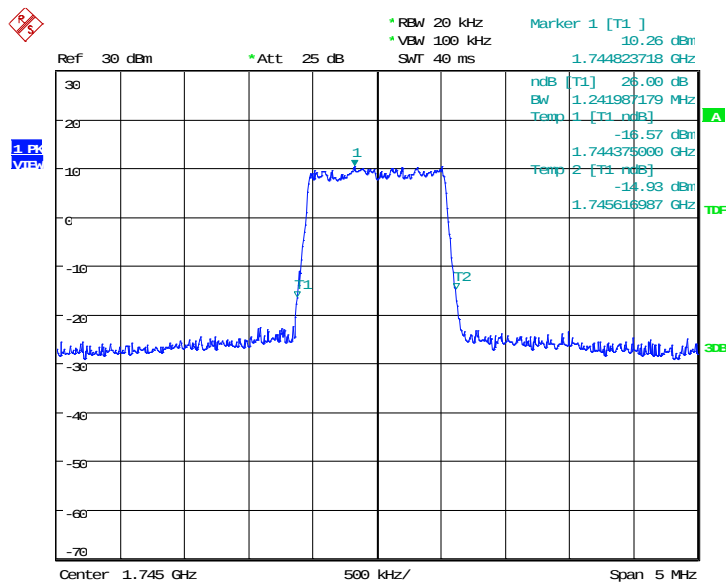
Frequency(MHz)	Emission Bandwidth (-26dBc BW)(kHz)		
1745.0	QPSK	16QAM	64QAM
	1250.00	1241.99	1241.99

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



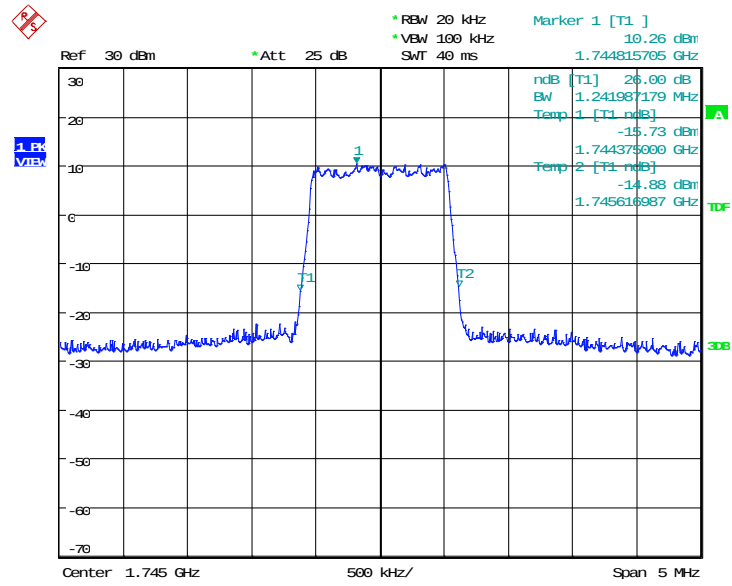
Date: 5.DEC.2019 11:21:28

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



Date: 5.DEC.2019 11:21:44

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

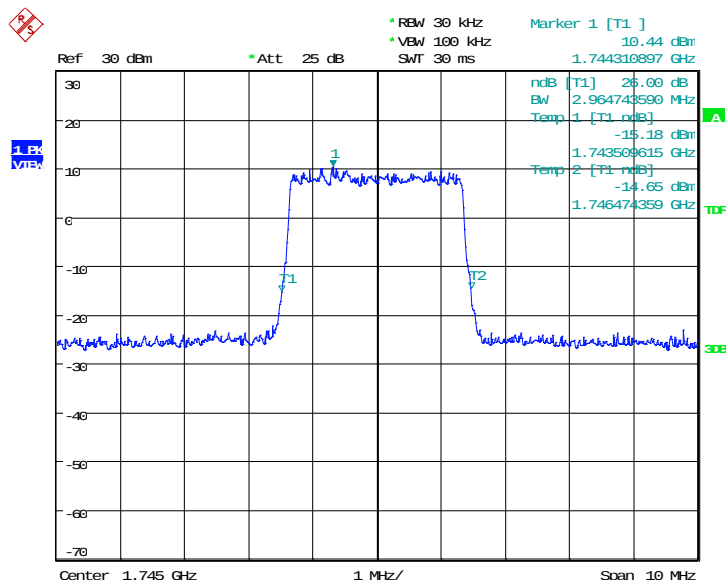


Date: 6.DEC.2019 06:23:14

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

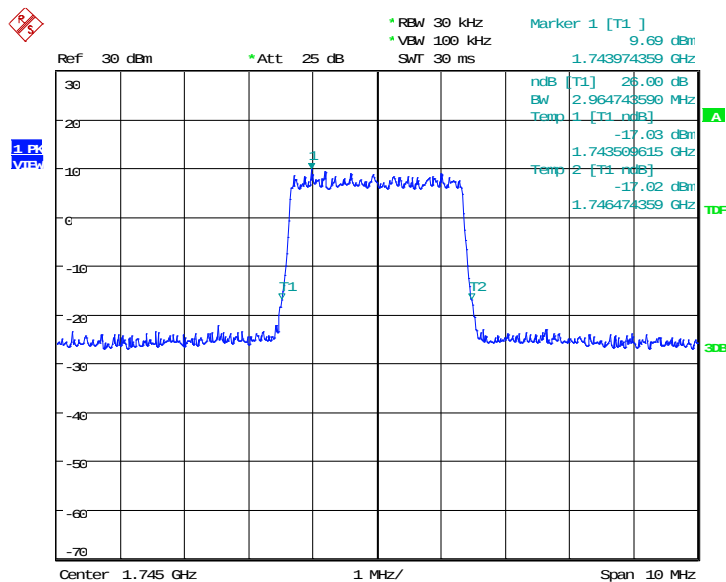
Frequency(MHz)	Emission Bandwidth (-26dBc BW)(kHz)		
1745.0	QPSK	16QAM	64QAM
	2964.74	2964.74	2964.74

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



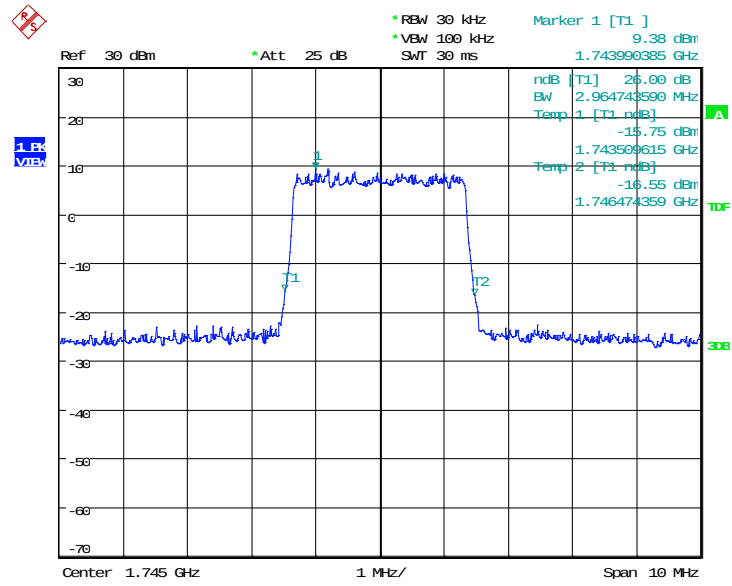
Date: 5.DEC.2019 11:25:49

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



Date: 5.DEC.2019 11:26:05

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

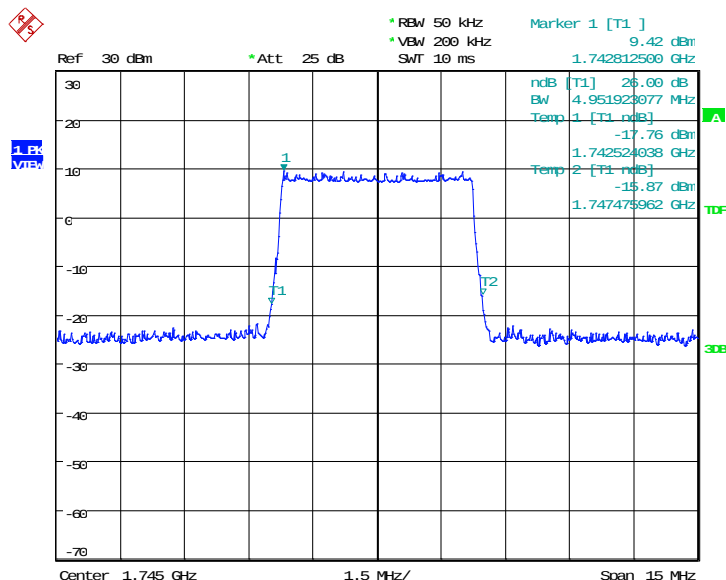


Date: 6.DEC.2019 06:25:57

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

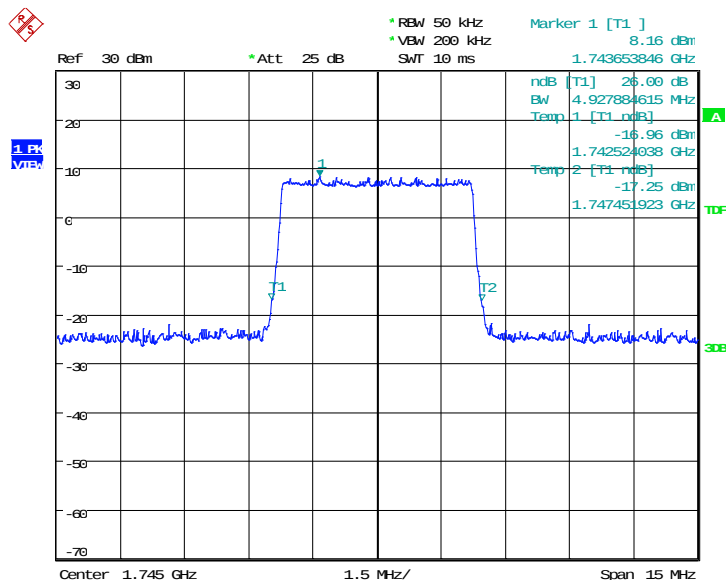
Frequency(MHz)	Emission Bandwidth (-26dBc BW)(kHz)		
1745.0	QPSK	16QAM	64QAM
	4951.92	4927.88	4951.92

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



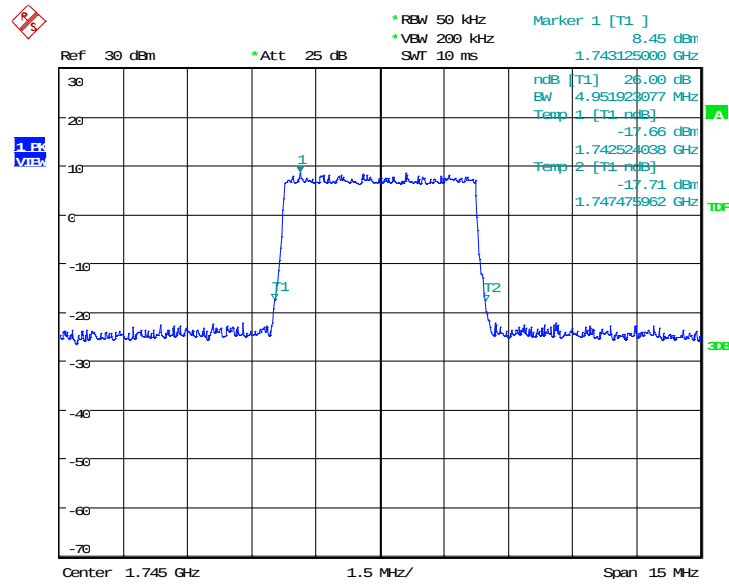
Date: 5.DEC.2019 11:30:07

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



Date: 5.DEC.2019 11:30:23

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

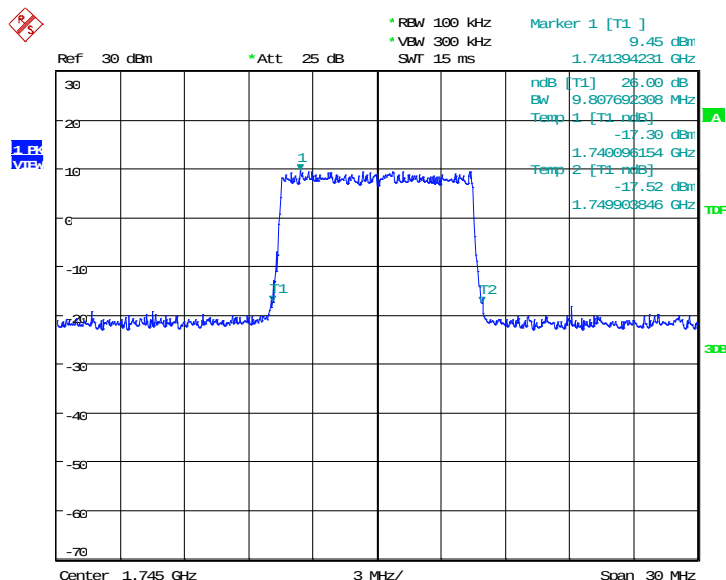


Date: 6.DEC.2019 06:28:42

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

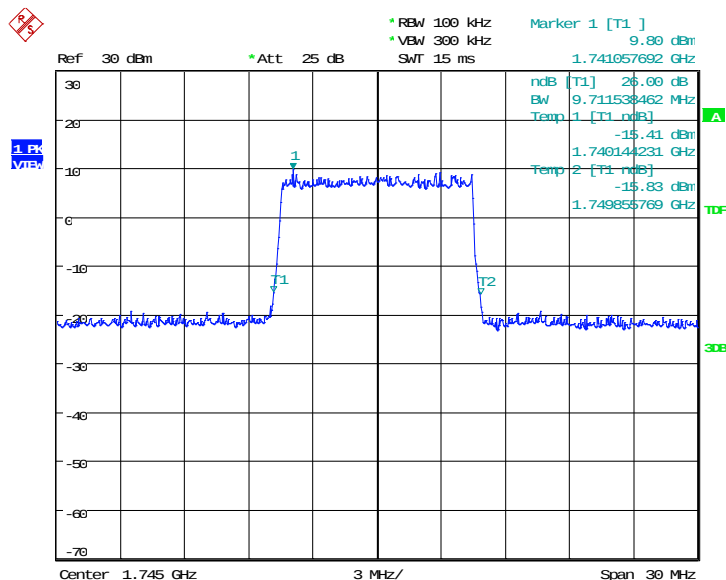
Frequency(MHz)	Emission Bandwidth (-26dBc BW)(kHz)		
1745.0	QPSK	16QAM	64QAM
	9807.69	9711.54	9759.62

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



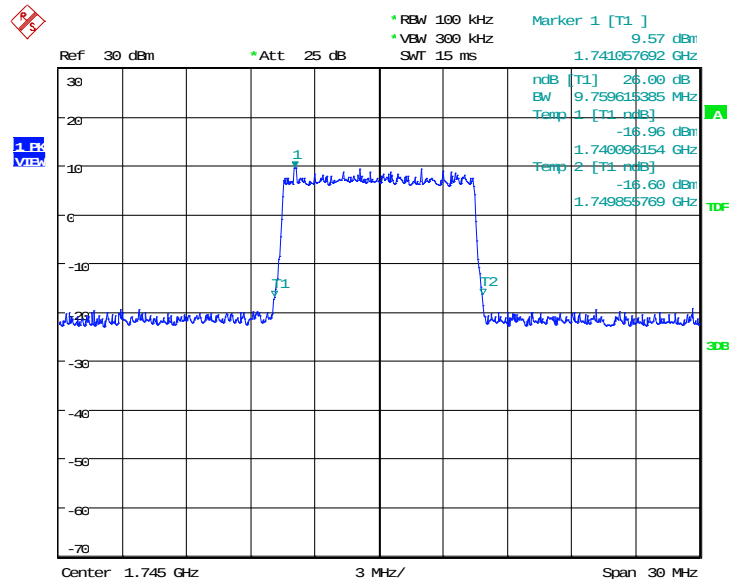
Date: 5.DEC.2019 11:34:28

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



Date: 5.DEC.2019 11:34:43

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

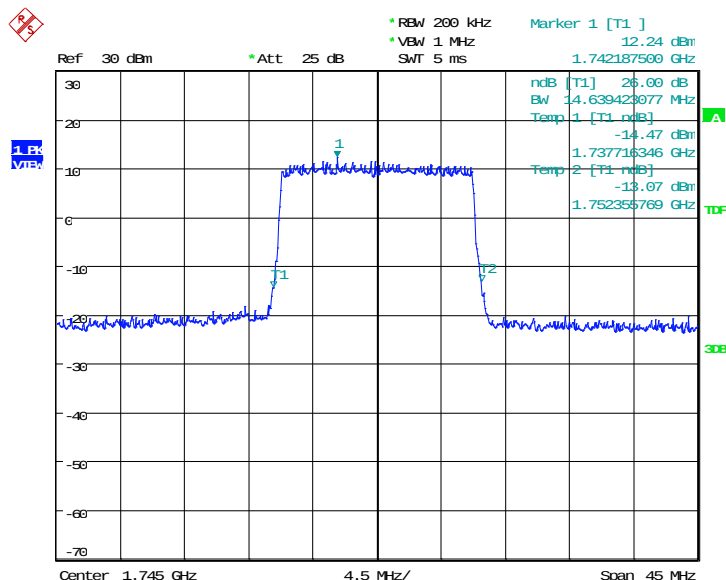


Date: 6.DEC.2019 06:31:27

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

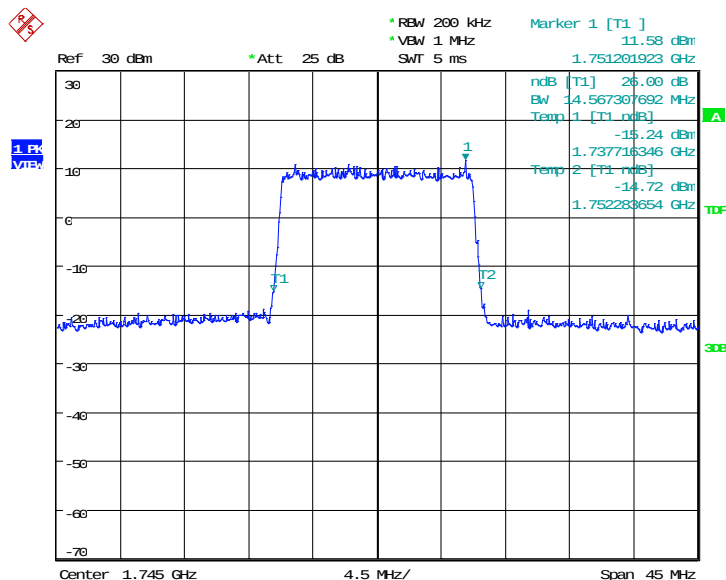
Frequency(MHz)	Emission Bandwidth (-26dBc BW)(kHz)		
1745.0	QPSK	16QAM	64QAM
	14639.42	14567.31	14711.54

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



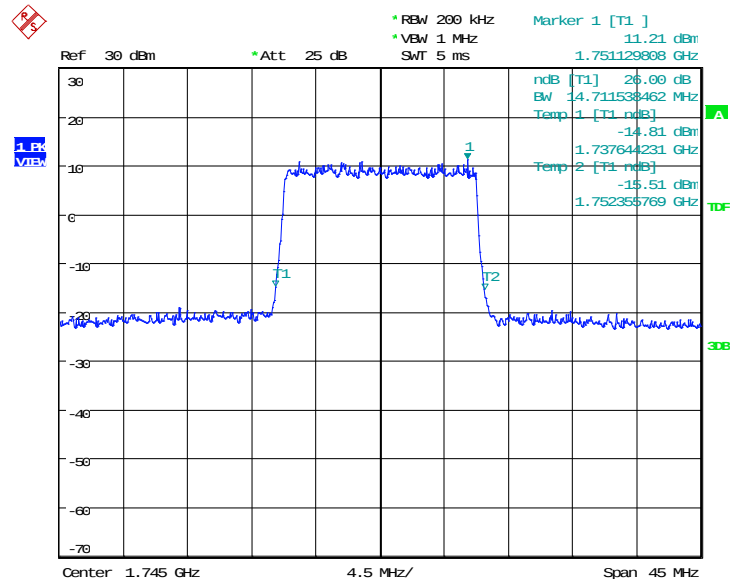
Date: 5.DEC.2019 11:38:48

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



Date: 5.DEC.2019 11:39:04

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

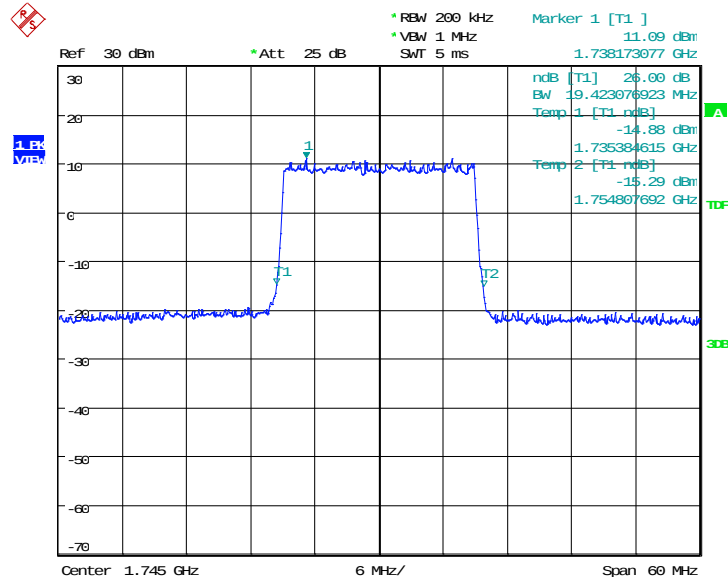


Date: 6.DEC.2019 06:34:10

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

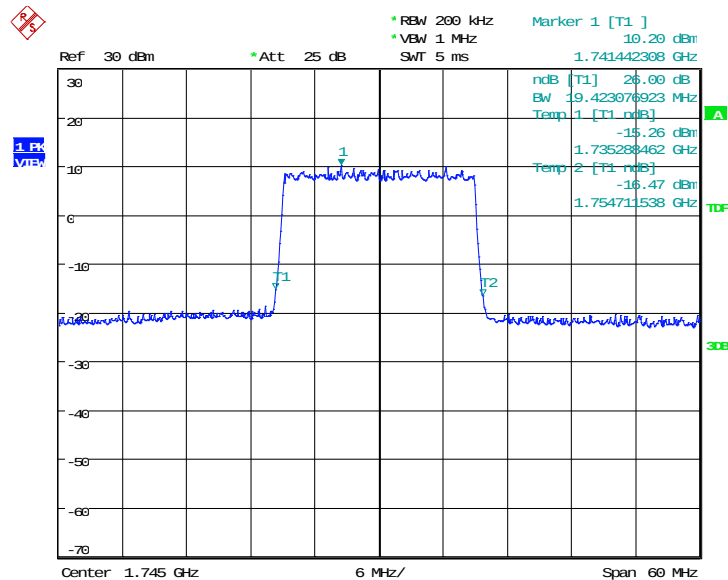
Frequency(MHz)	Emission Bandwidth (-26dBc BW)(kHz)		
1745.0	QPSK	16QAM	64QAM
	19423.08	19423.08	19423.08

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



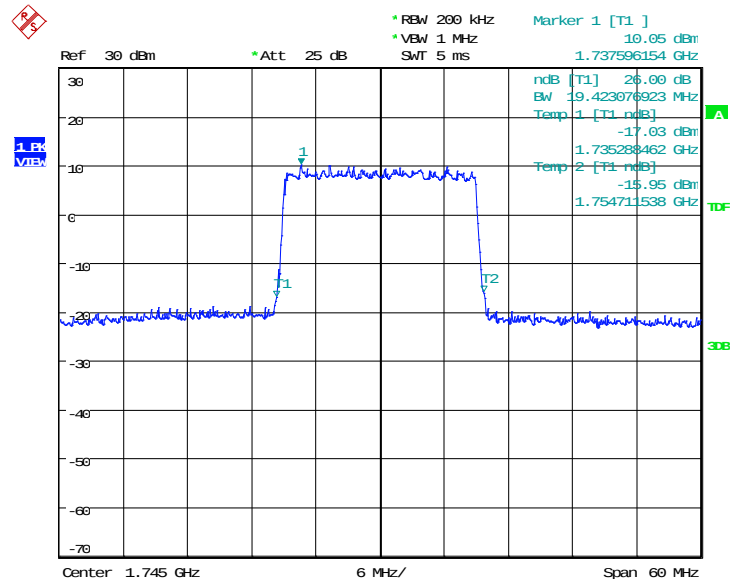
Date: 5.DEC.2019 11:43:38

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



Date: 5.DEC.2019 11:43:54

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

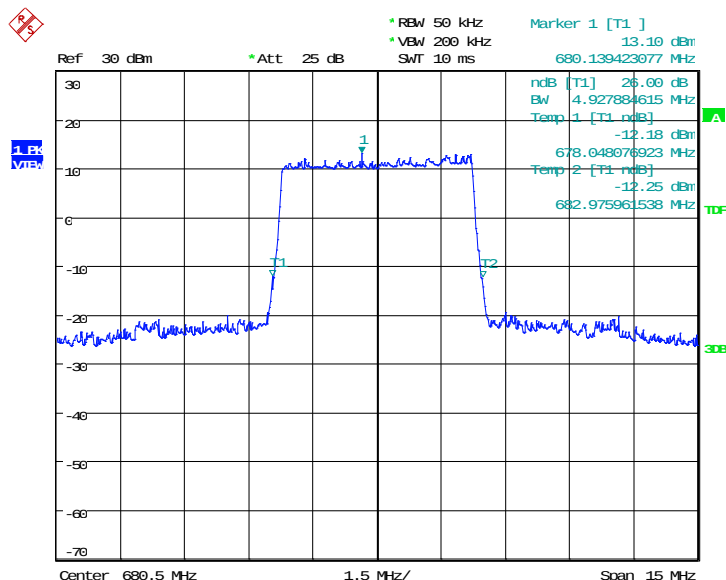


Date: 6.DEC.2019 06:36:54

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

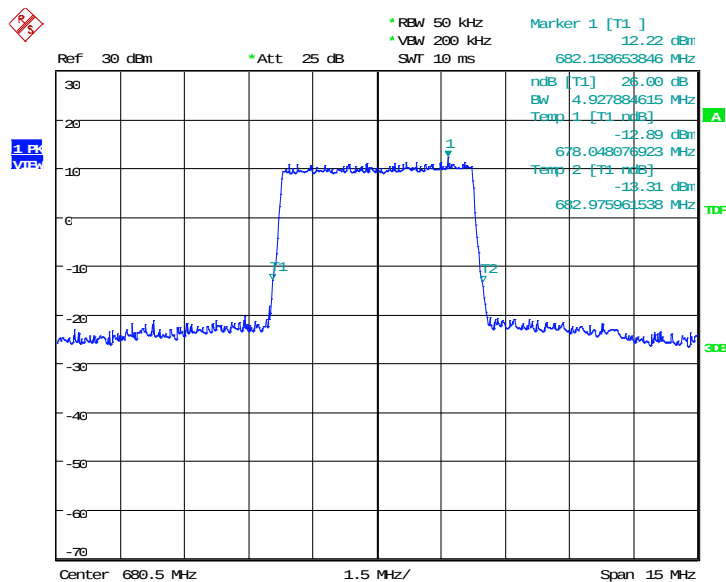
Frequency(MHz)	Emission Bandwidth (-26dBc BW)(kHz)		
680.5	QPSK	16QAM	64QAM
	4927.88	4927.88	4903.85

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



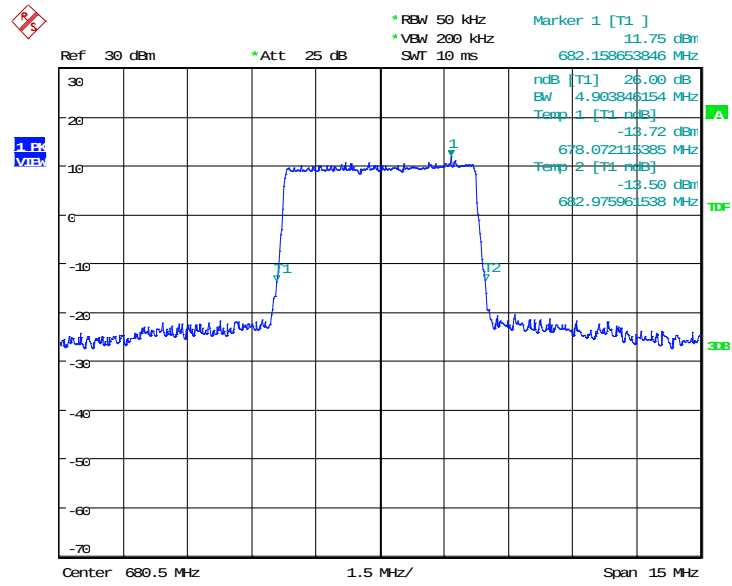
Date: 15.DEC.2019 10:00:02

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



Date: 15.DEC.2019 10:00:47

LTE band 71, 5MHz Bandwidth,64QAM (-26dBc BW)

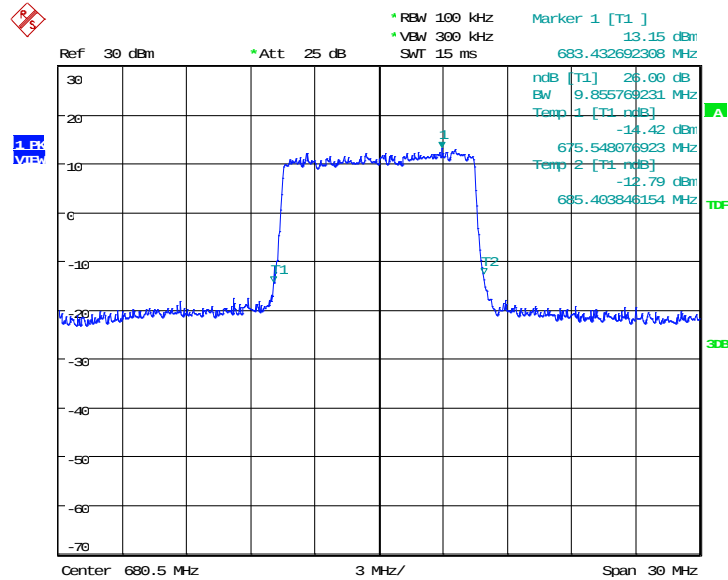


Date: 15.DEC.2019 10:01:11

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

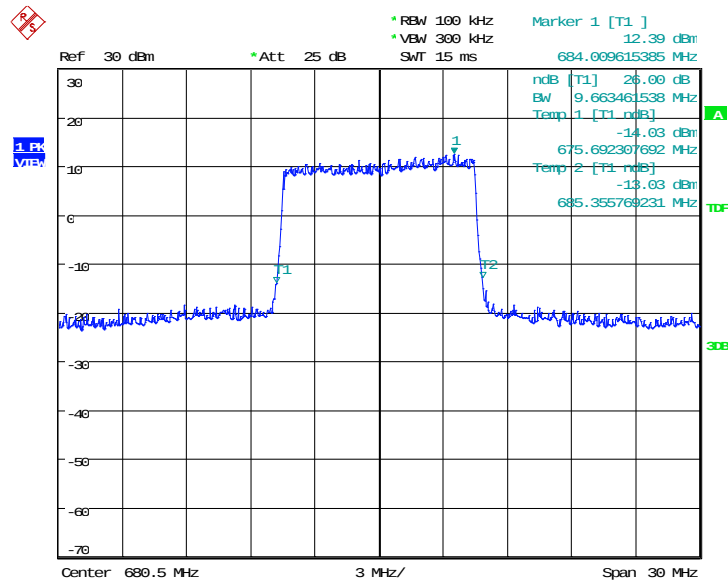
Frequency(MHz)	Emission Bandwidth (-26dBc BW)(kHz)		
680.5	QPSK	16QAM	64QAM
	9855.77	9663.46	9711.54

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



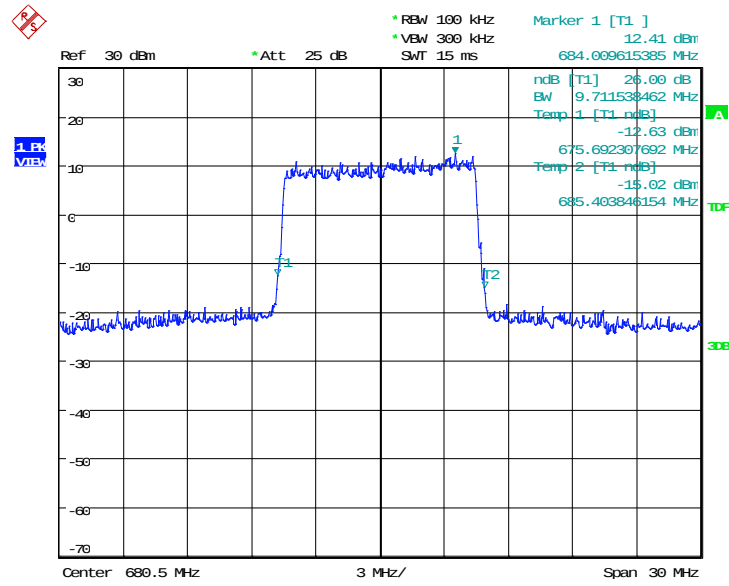
Date: 15.DEC.2019 10:03:46

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



Date: 15.DEC.2019 10:04:18

LTE band 71, 10MHz Bandwidth, 64QAM (-26dBc BW)

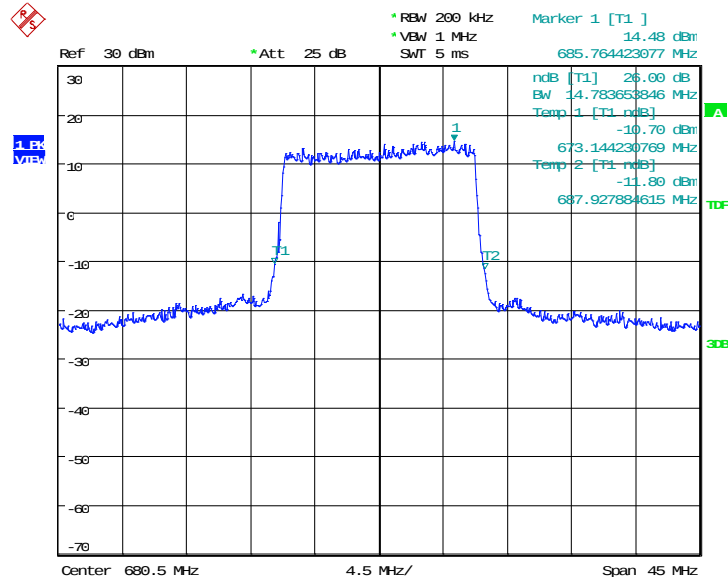


Date: 15.DEC.2019 10:04:38

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

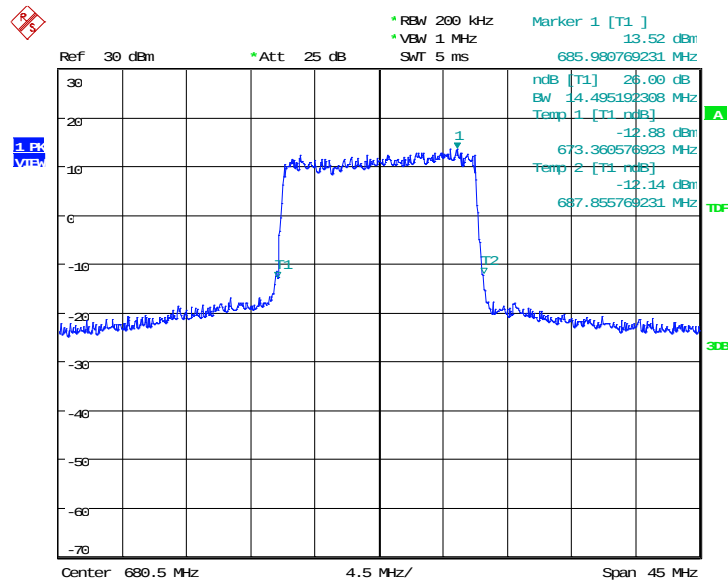
Frequency(MHz)	Emission Bandwidth (-26dBc BW)(kHz)		
680.5	QPSK	16QAM	64QAM
	14783.65	14495.19	14567.31

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



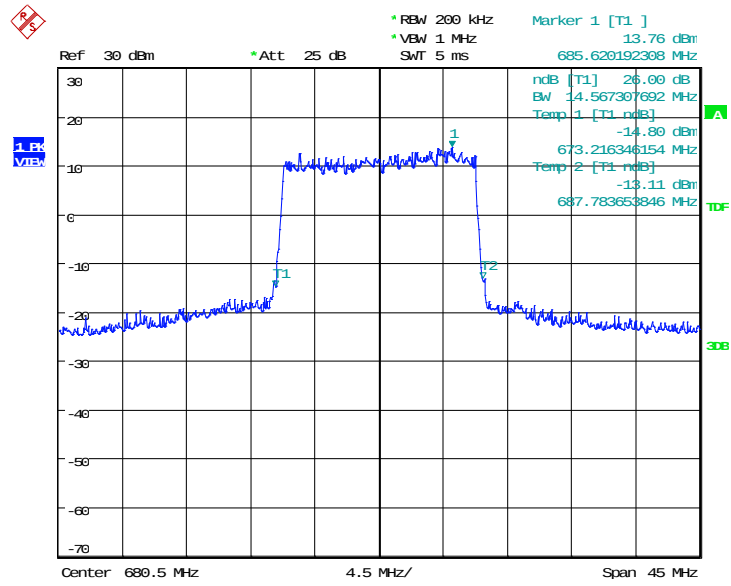
Date: 15.DEC.2019 10:06:52

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



Date: 15.DEC.2019 10:07:15

LTE band 71, 15MHz Bandwidth, 64QAM (-26dBc BW)

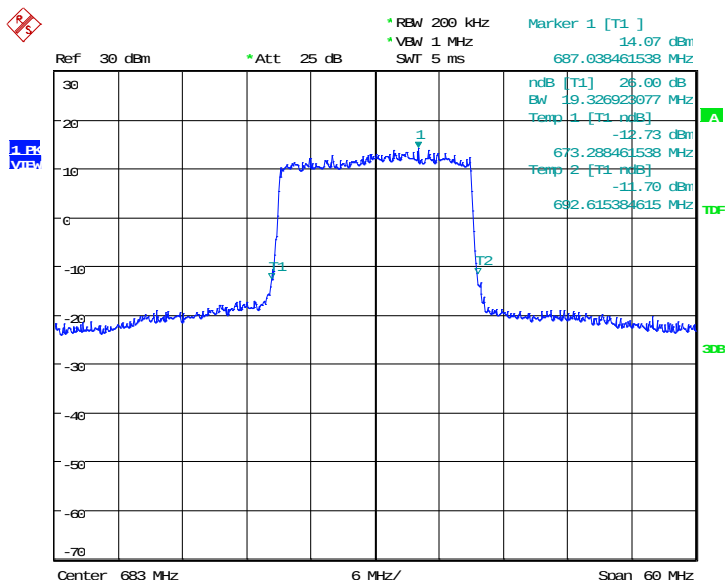


Date: 15.DEC.2019 10:08:09

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

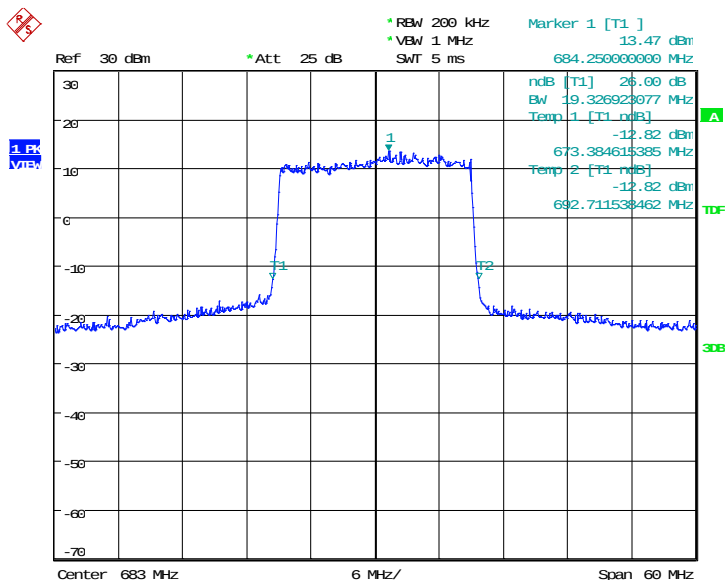
Frequency(MHz)	Emission Bandwidth (-26dBc BW)(kHz)		
683.0	QPSK	16QAM	64QAM
	19326.92	19326.92	19326.92

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



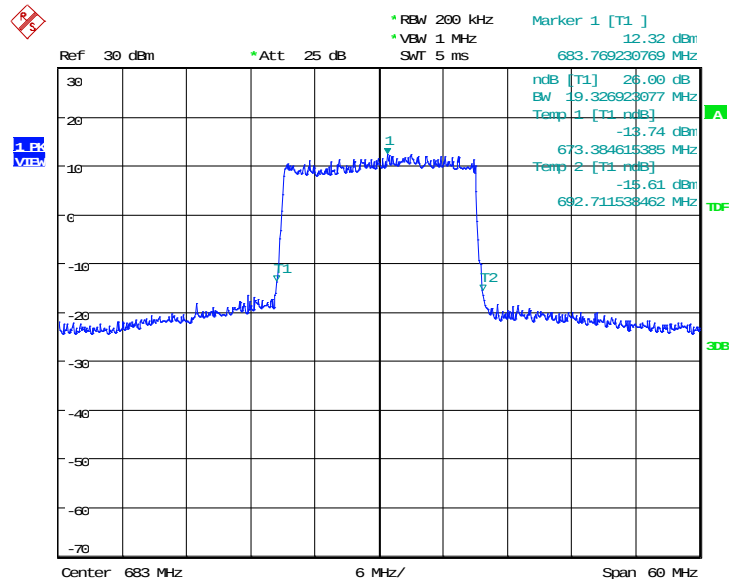
Date: 15.DEC.2019 10:28:00

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



Date: 15.DEC.2019 10:28:34

LTE band 71, 20MHz Bandwidth, 64QAM (-26dBc BW)

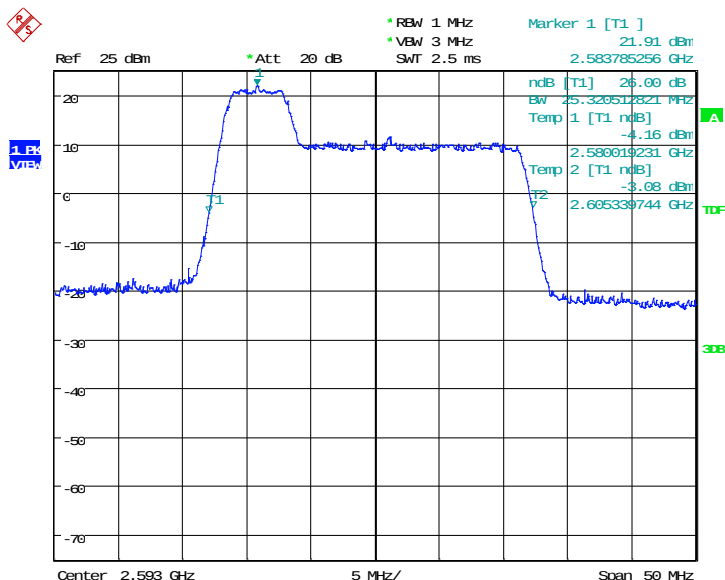


Date: 15.DEC.2019 10:29:01

LTE Band CA_41C, 5MHz+20MHz (-26dBc BW)

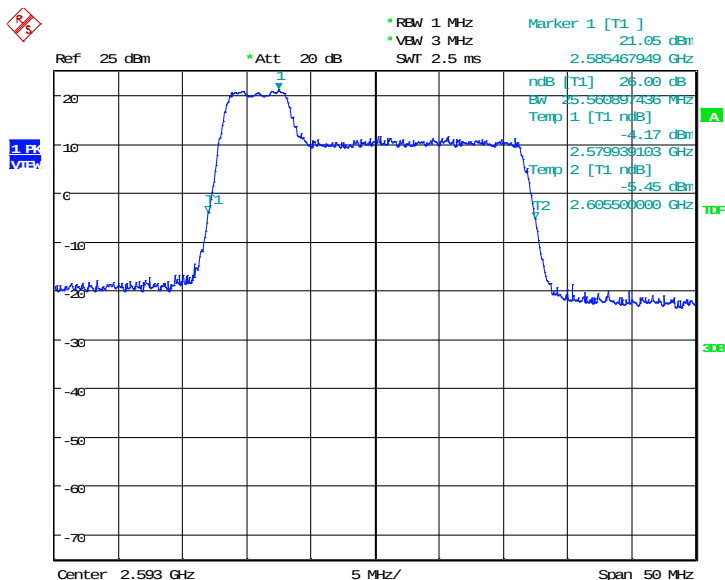
Frequency(MHz)	Emission Bandwidth (-26dBc BW)(kHz)		
2593.0	QPSK	16QAM	64QAM
	25320.51	25560.90	25560.90

LTE Band CA_41C, 5MHz+20MHz Bandwidth, QPSK (-26dBc BW)



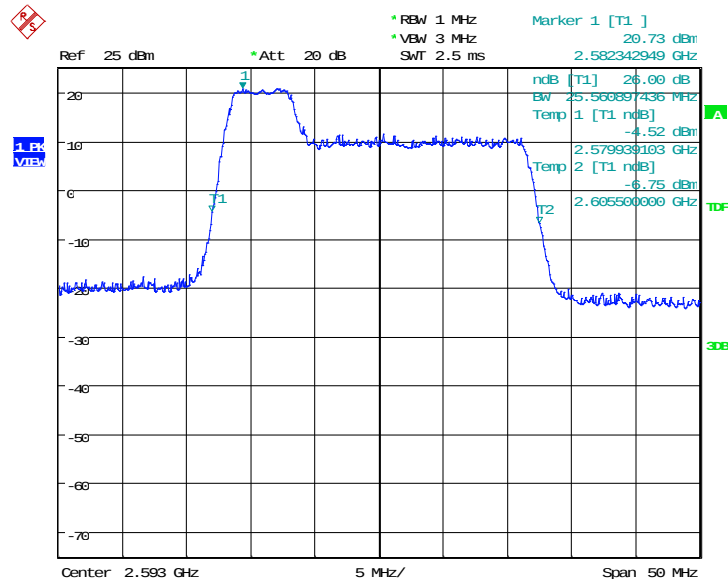
Date: 24.DEC.2019 12:22:19

LTE Band CA_41C, 5MHz+20MHz Bandwidth, 16QAM (-26dBc BW)



Date: 24.DEC.2019 12:22:52

LTE Band CA_41C, 5MHz+20MHz Bandwidth, 64QAM (-26dBc BW)

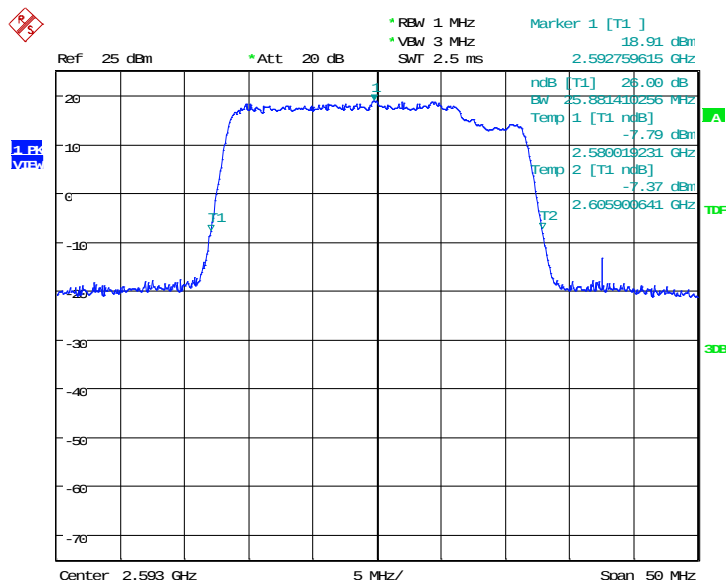


Date: 24.DEC.2019 12:23:13

LTE Band CA_41C, 20MHz+5MHz (-26dBc BW)

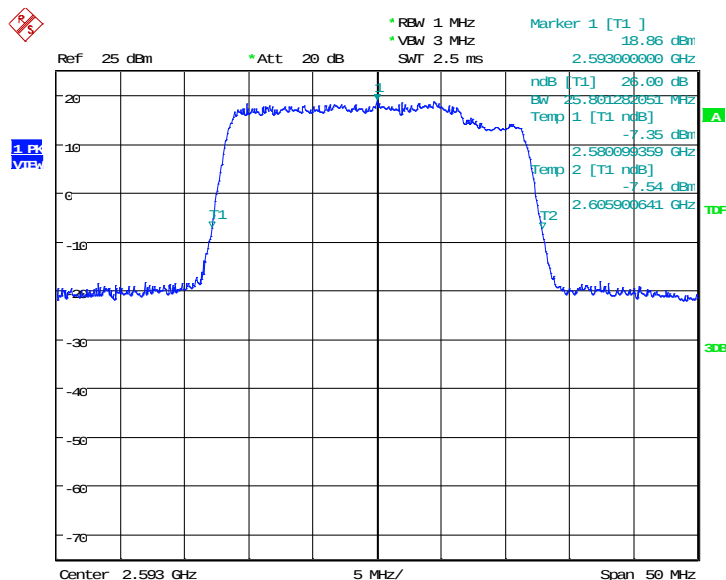
Frequency(MHz)	Emission Bandwidth (-26dBc BW)(kHz)		
2593.0	QPSK	16QAM	64QAM
	25881.41	25801.28	25801.28

LTE Band CA_41C, 20MHz+5MHz Bandwidth, QPSK (-26dBc BW)



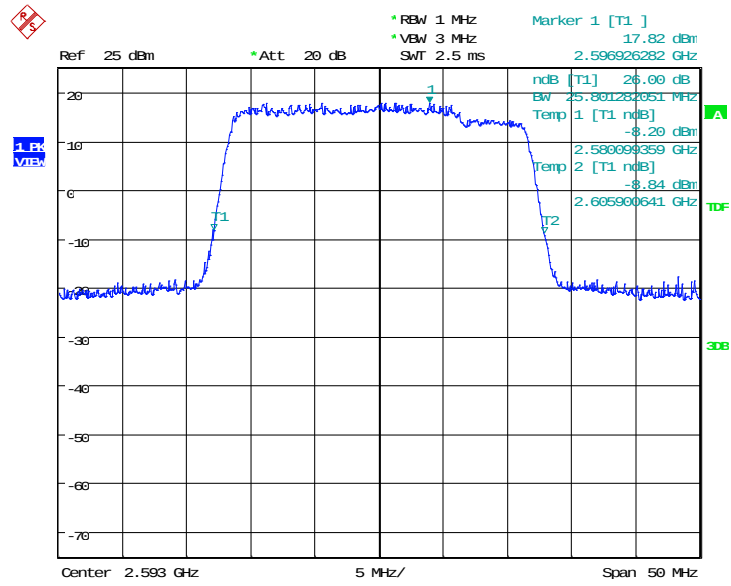
Date: 24.DEC.2019 12:27:22

LTE Band CA_41C, 20MHz+5MHz Bandwidth, 16QAM (-26dBc BW)



Date: 24.DEC.2019 12:27:43

LTE Band CA_41C, 20MHz+5MHz Bandwidth, 64QAM (-26dBc BW)

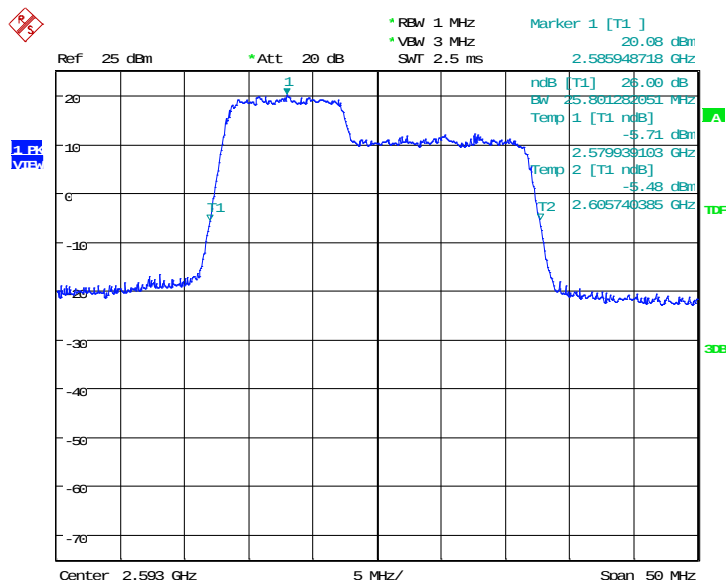


Date: 24.DEC.2019 12:28:13

LTE Band CA_41C, 10MHz+15MHz (-26dBc BW)

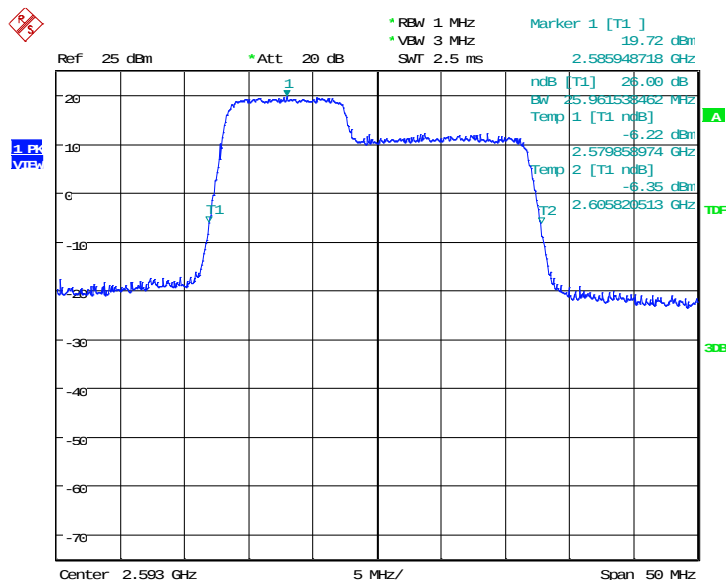
Frequency(MHz)	Emission Bandwidth (-26dBc BW)(kHz)		
2593.0	QPSK	16QAM	64QAM
	25801.28	25961.54	25801.28

LTE Band CA_41C, 10MHz+15MHz Bandwidth, QPSK (-26dBc BW)



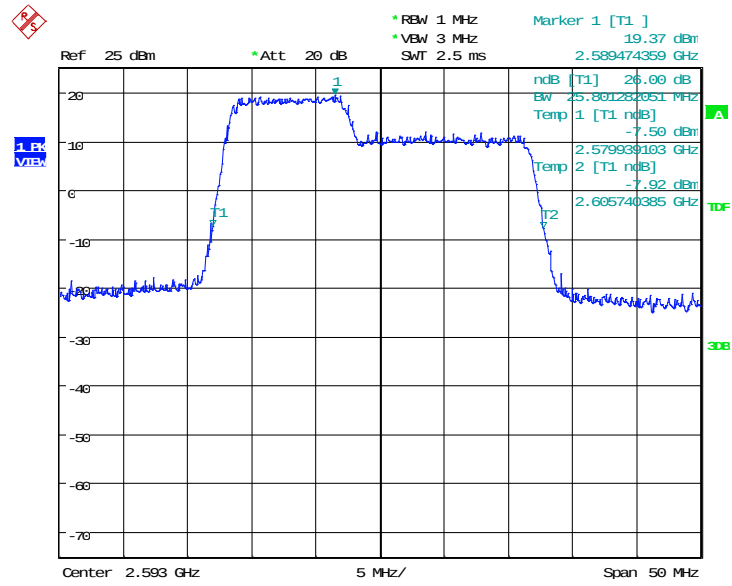
Date: 24.DEC.2019 12:33:48

LTE Band CA_41C, 10MHz+15MHz Bandwidth, 16QAM (-26dBc BW)



Date: 24.DEC.2019 12:34:28

LTE Band CA_41C, 10MHz+15MHz Bandwidth, 64QAM (-26dBc BW)

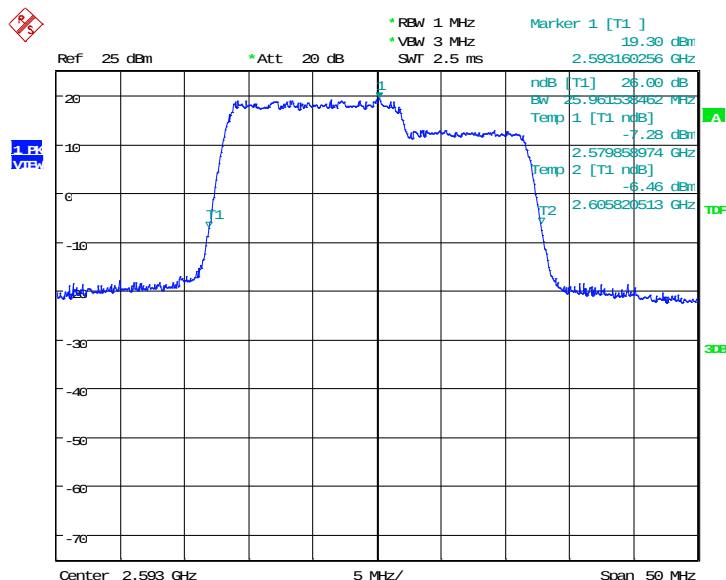


Date: 24.DEC.2019 12:34:50

LTE Band CA_41C, 15MHz+10MHz (-26dBc BW)

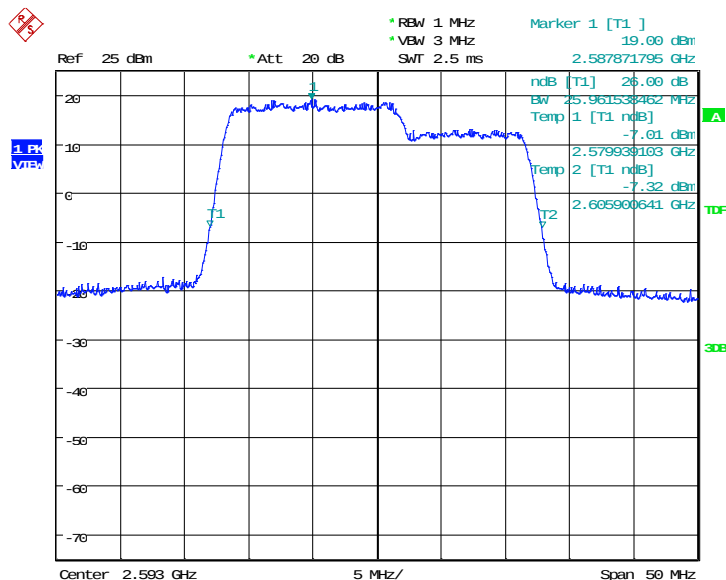
Frequency(MHz)	Emission Bandwidth (-26dBc BW)(kHz)		
2593.0	QPSK	16QAM	64QAM
	25961.54	25961.54	26041.67

LTE Band CA_41C, 15MHz+10MHz Bandwidth, QPSK (-26dBc BW)



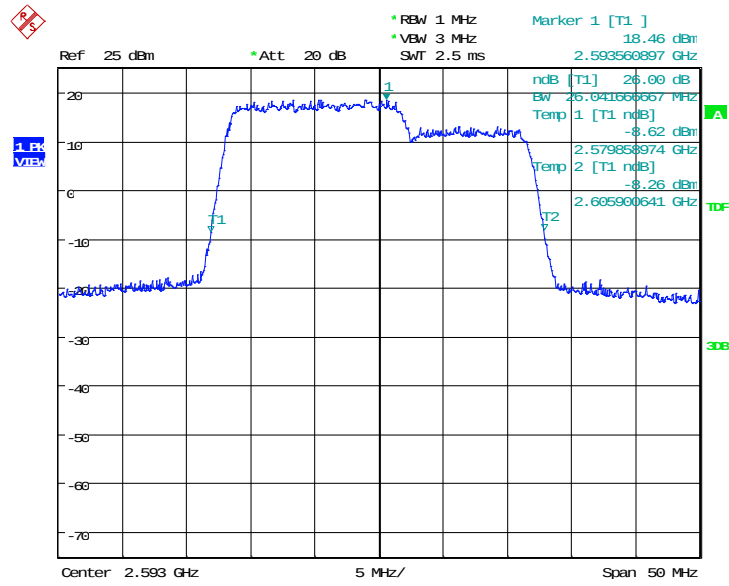
Date: 24.DEC.2019 12:37:41

LTE Band CA_41C, 15MHz+10MHz Bandwidth, 16QAM (-26dBc BW)



Date: 24.DEC.2019 12:36:51

LTE Band CA_41C, 15MHz+10MHz Bandwidth, 64QAM (-26dBc BW)

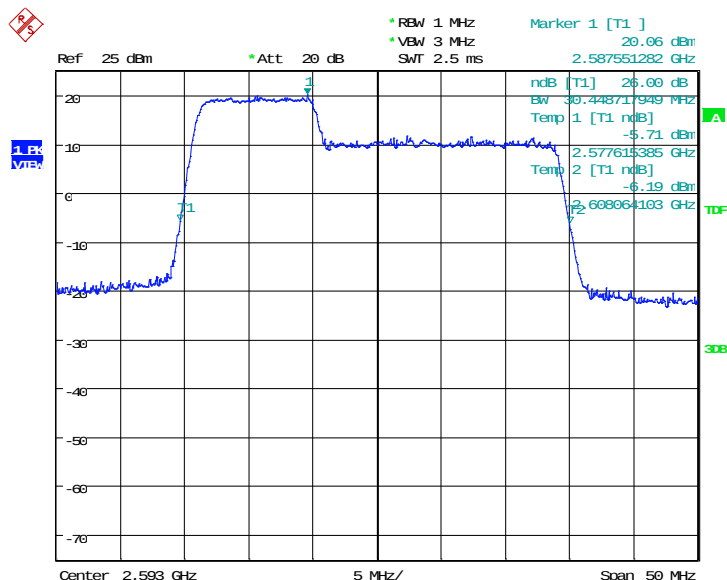


Date: 24.DEC.2019 12:37:11

LTE Band CA_41C, 10MHz+20MHz (-26dBc BW)

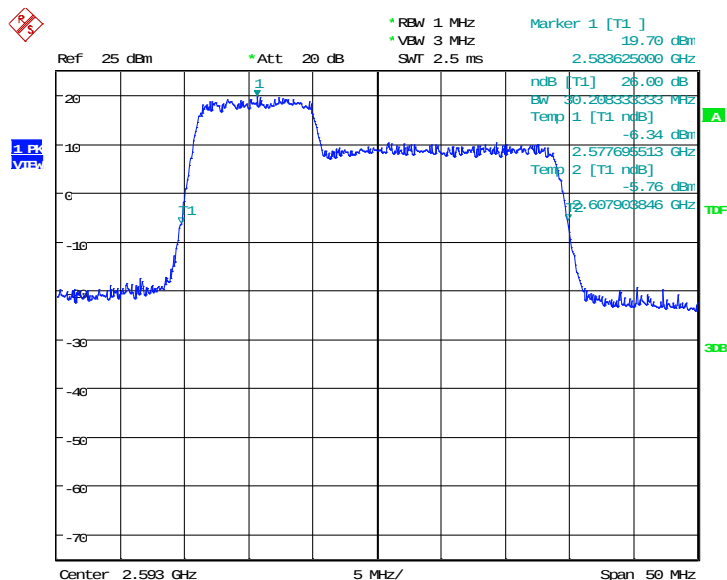
Frequency(MHz)	Emission Bandwidth (-26dBc BW)(kHz)		
2593.0	QPSK	16QAM	64QAM
	30448.72	30208.33	30448.72

LTE Band CA_41C, 10MHz+20MHz Bandwidth, QPSK (-26dBc BW)



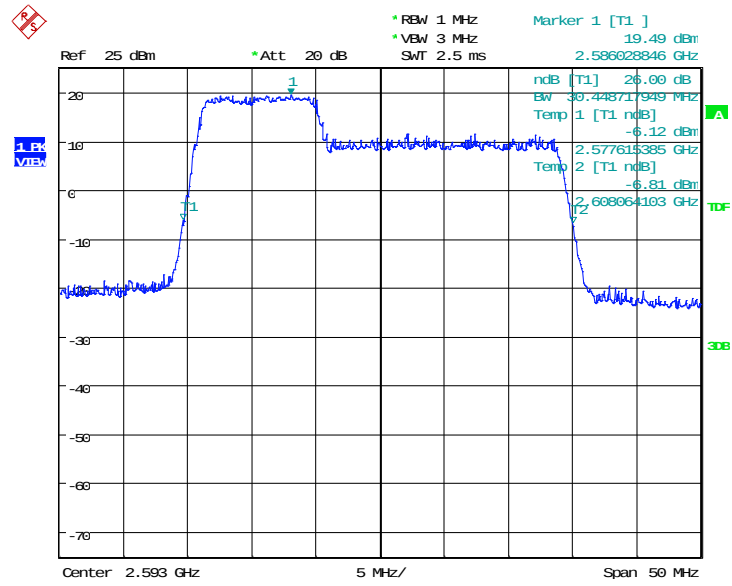
Date: 24.DEC.2019 12:49:23

LTE Band CA_41C, 10MHz+20MHz Bandwidth, 16QAM (-26dBc BW)



Date: 24.DEC.2019 12:46:28

LTE Band CA_41C, 10MHz+20MHz Bandwidth, 64QAM (-26dBc BW)

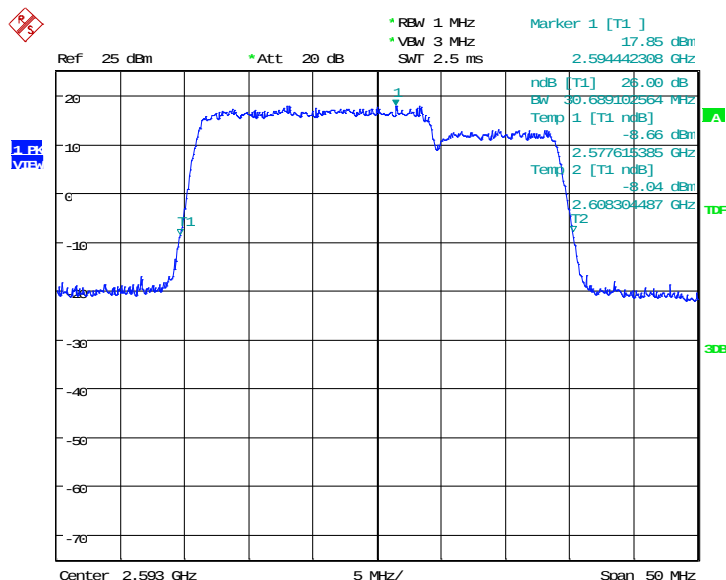


Date: 24.DEC.2019 12:46:55

LTE Band CA_41C, 20MHz+10MHz (-26dBc BW)

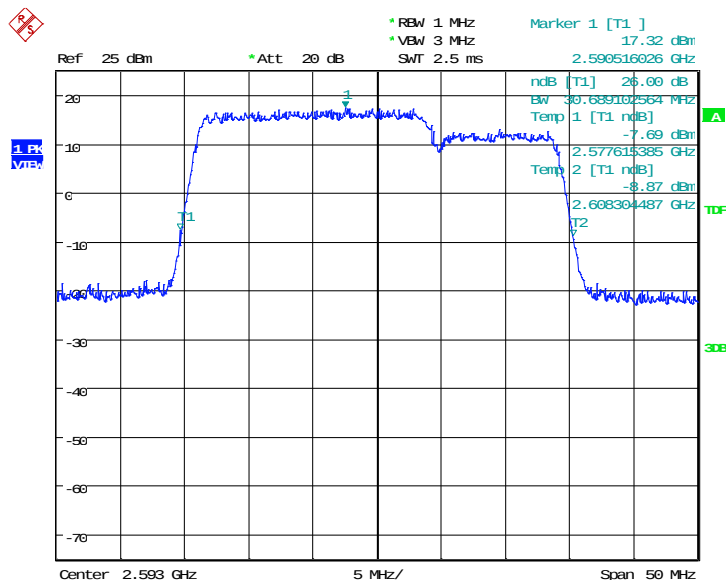
Frequency(MHz)	Emission Bandwidth (-26dBc BW)(kHz)		
2593.0	QPSK	16QAM	64QAM
	30689.10	30689.10	30689.10

LTE Band CA_41C, 20MHz+10MHz Bandwidth, QPSK (-26dBc BW)



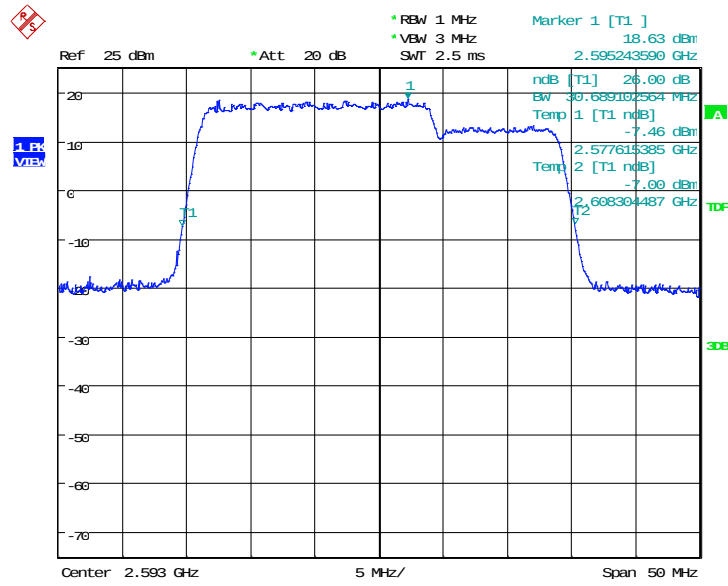
Date: 24.DEC.2019 12:51:12

LTE Band CA_41C, 20MHz+10MHz Bandwidth, 16QAM (-26dBc BW)



Date: 24.DEC.2019 12:51:27

LTE Band CA_41C, 20MHz+10MHz Bandwidth, 64QAM (-26dBc BW)

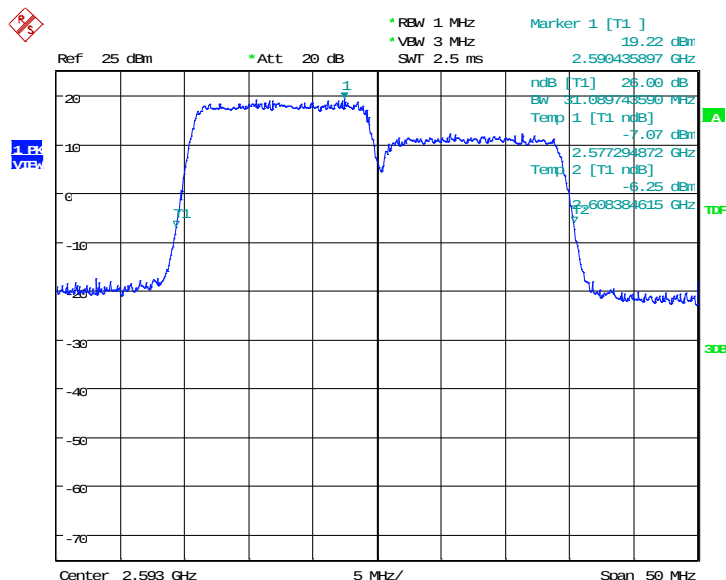


Date: 24.DEC.2019 12:52:11

LTE Band CA_41C, 15MHz+15MHz (-26dBc BW)

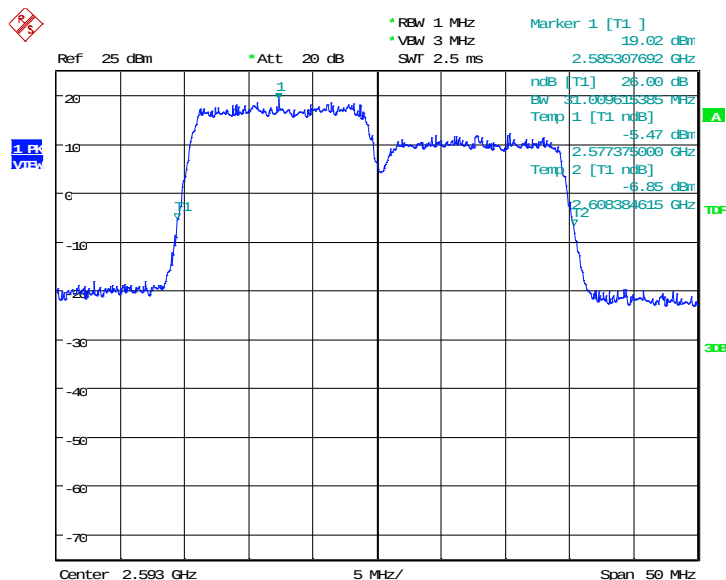
Frequency(MHz)	Emission Bandwidth (-26dBc BW)(kHz)		
2593.0	QPSK	16QAM	64QAM
	31089.74	31009.62	31009.62

LTE Band CA_41C, 15MHz+15MHz Bandwidth, QPSK (-26dBc BW)



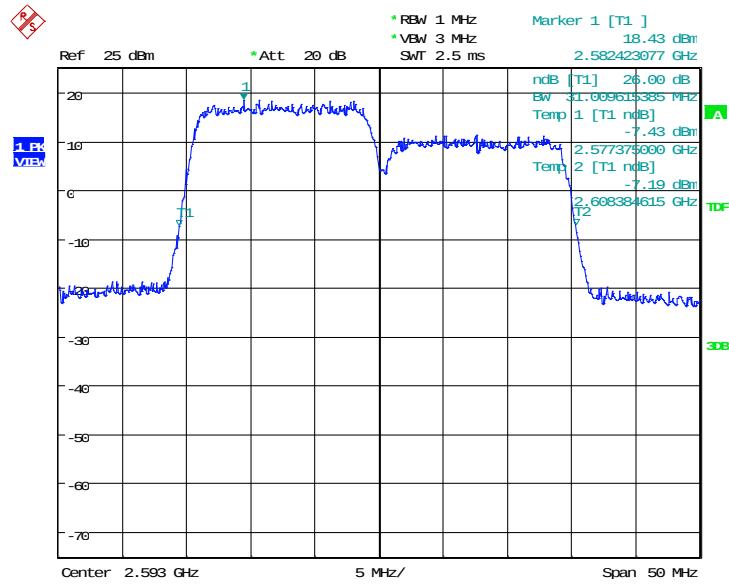
Date: 24.DEC.2019 12:57:36

LTE Band CA_41C, 15MHz+15MHz Bandwidth, 16QAM (-26dBc BW)



Date: 24.DEC.2019 12:56:28

LTE Band CA_41C, 15MHz+15MHz Bandwidth, 64QAM (-26dBc BW)

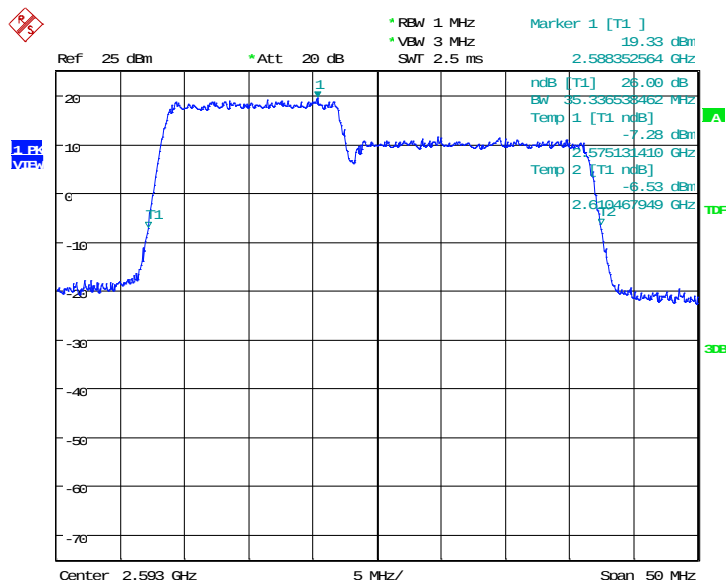


Date: 24.DEC.2019 12:56:08

LTE Band CA_41C, 15MHz+20MHz (-26dBc BW)

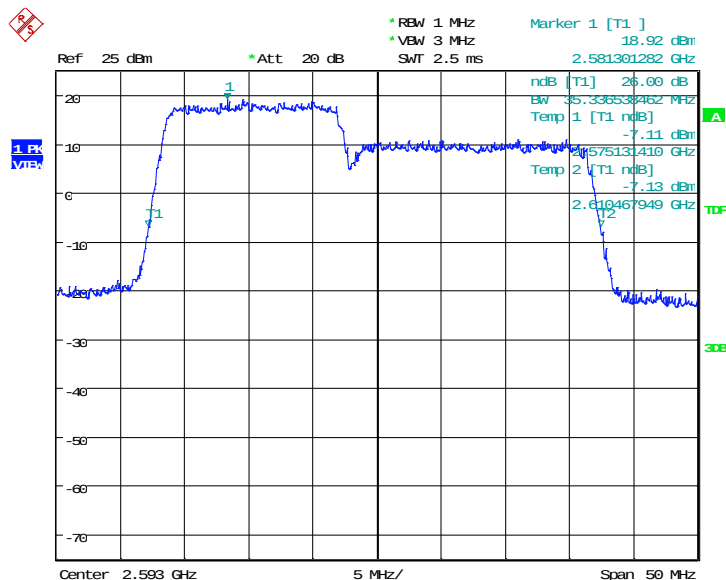
Frequency(MHz)	Emission Bandwidth (-26dBc BW)(kHz)		
2593.0	QPSK	16QAM	64QAM
	35336.54	35336.54	35336.54

LTE Band CA_41C, 15MHz+20MHz Bandwidth, QPSK (-26dBc BW)



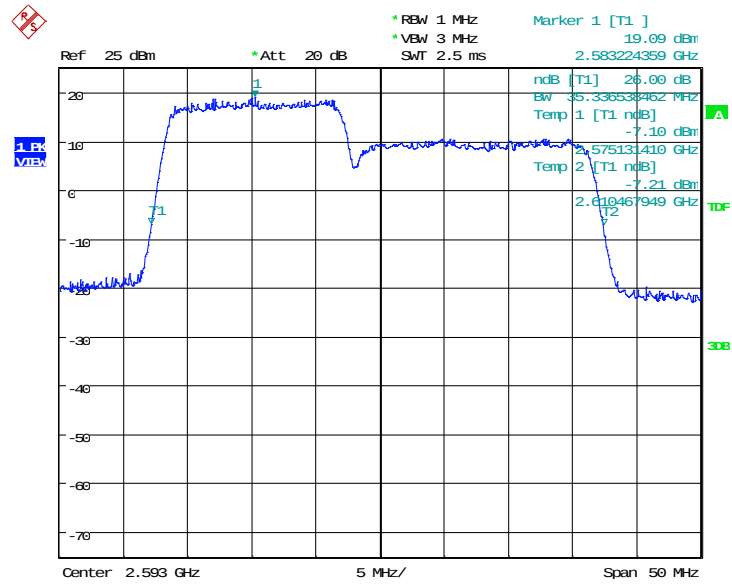
Date: 24.DEC.2019 12:59:17

LTE Band CA_41C, 15MHz+20MHz Bandwidth, 16QAM (-26dBc BW)



Date: 24.DEC.2019 12:59:38

LTE Band CA_41C, 15MHz+20MHz Bandwidth, 64QAM (-26dBc BW)

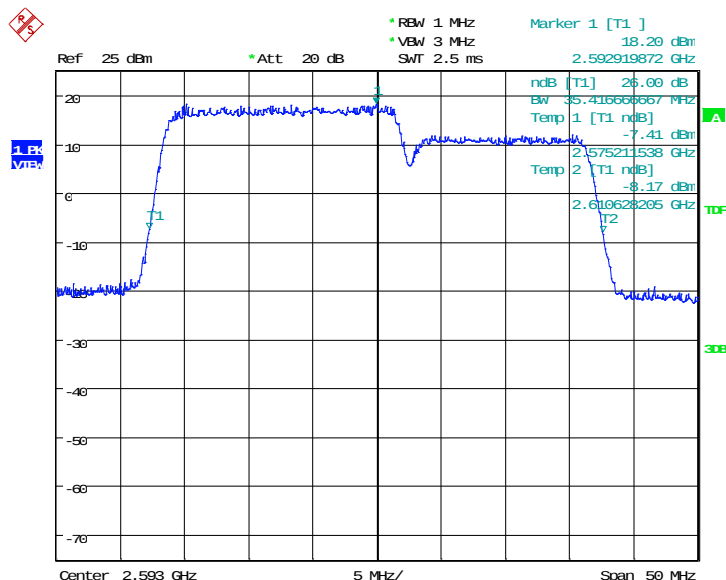


Date: 24.DEC.2019 13:00:07

LTE Band CA_41C, 20MHz+15MHz (-26dBc BW)

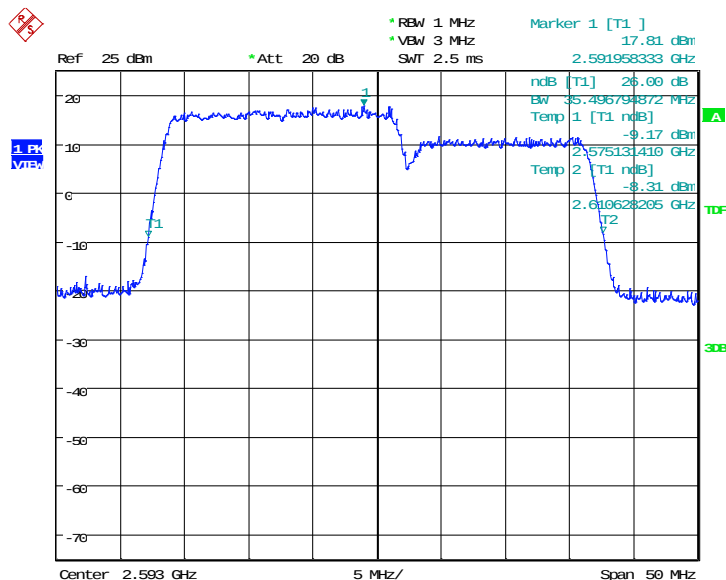
Frequency(MHz)	Emission Bandwidth (-26dBc BW)(kHz)		
2593.0	QPSK	16QAM	64QAM
	35416.67	36496.79	35576.92

LTE Band CA_41C, 20MHz+15MHz Bandwidth, QPSK (-26dBc BW)



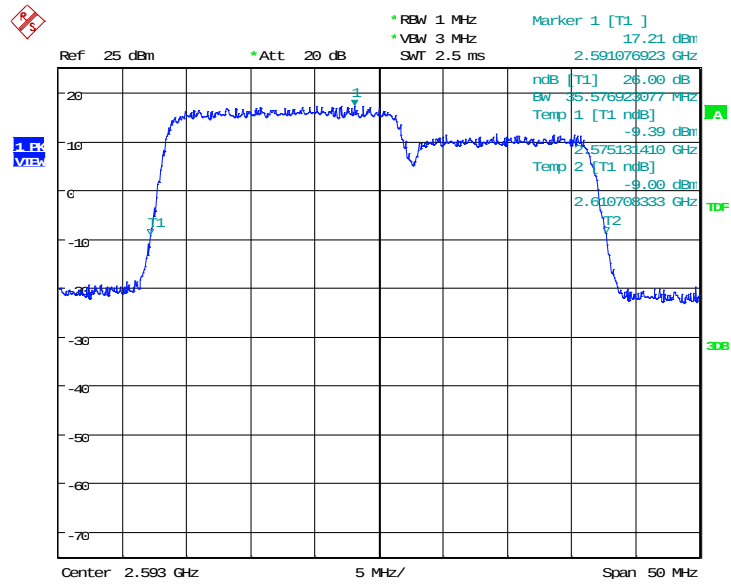
Date: 24.DEC.2019 13:04:38

LTE Band CA_41C, 20MHz+15MHz Bandwidth, 16QAM (-26dBc BW)



Date: 24.DEC.2019 13:04:06

LTE Band CA_41C, 20MHz+15MHz Bandwidth, 64QAM (-26dBc BW)

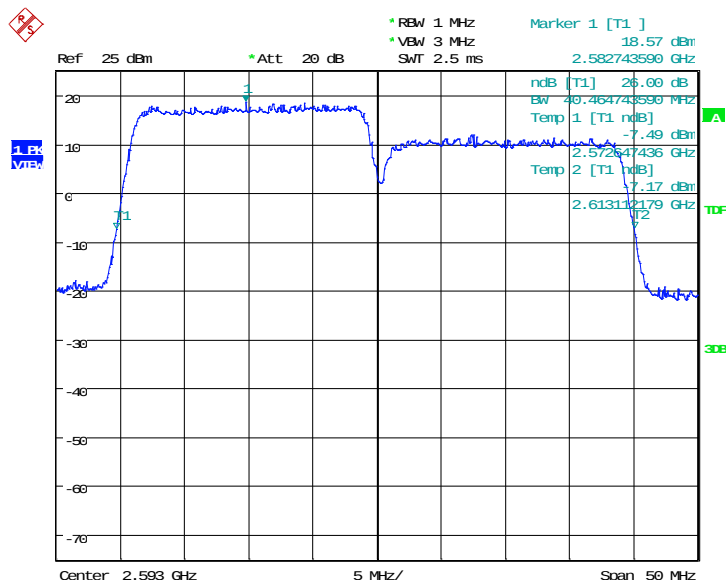


Date: 24.DEC.2019 13:03:47

LTE Band CA_41C, 20MHz+20MHz (-26dBc BW)

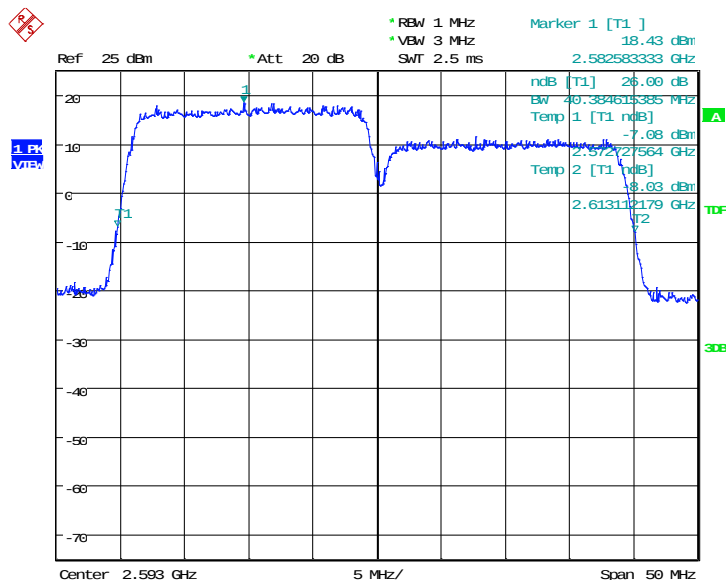
Frequency(MHz)	Emission Bandwidth (-26dBc BW)(kHz)		
2593.0	QPSK	16QAM	64QAM
	40464.74	40384.62	40304.49

LTE Band CA_41C, 20MHz+20MHz Bandwidth, QPSK (-26dBc BW)



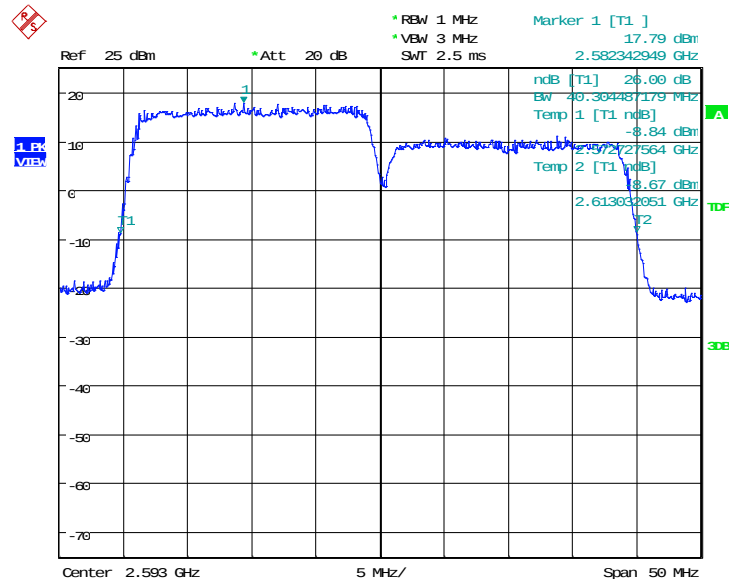
Date: 24.DEC.2019 13:05:40

LTE Band CA_41C, 20MHz+20MHz Bandwidth, 16QAM (-26dBc BW)



Date: 24.DEC.2019 13:05:55

LTE Band CA_41C, 20MHz+20MHz Bandwidth, 64QAM (-26dBc BW)



Date: 24.DEC.2019 13:06:23

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

A.6 BAND EDGE COMPLIANCE

Reference

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

A.6.1 Measurement limit

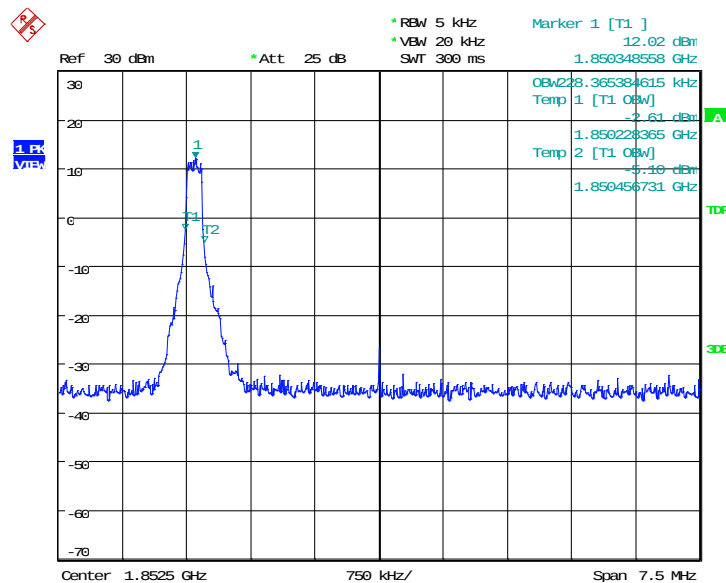
On any frequency outside frequency band of the US Cellular/PCS spectrum, the power of any emission shall be attenuated below the transmitter power (P, in Watts) by at least $43+10\log(P)$ dB. For all power levels +30 dBm to 0 dBm, this becomes a constant specification limit of -13 dBm. A relaxation of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

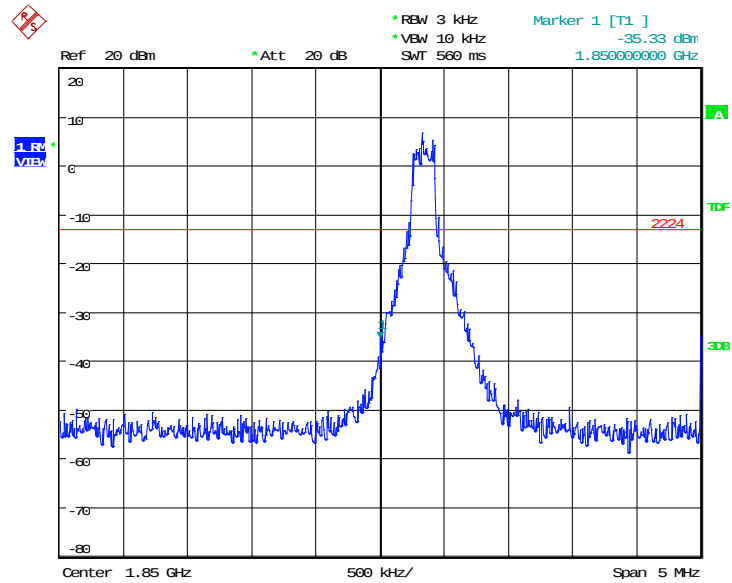
LTE band 2

OBW: 1RB-low_offset



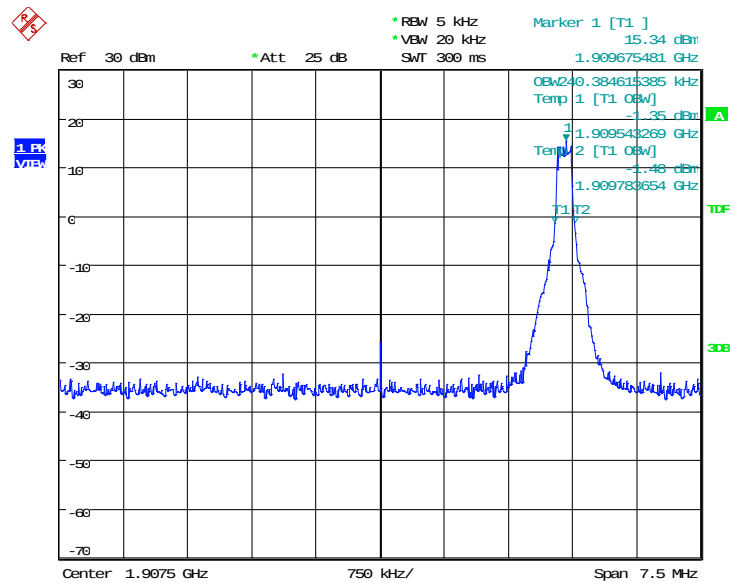
Date: 6.DEC.2019 10:25:57

LOW BAND EDGE BLOCK-1RB-low_offset



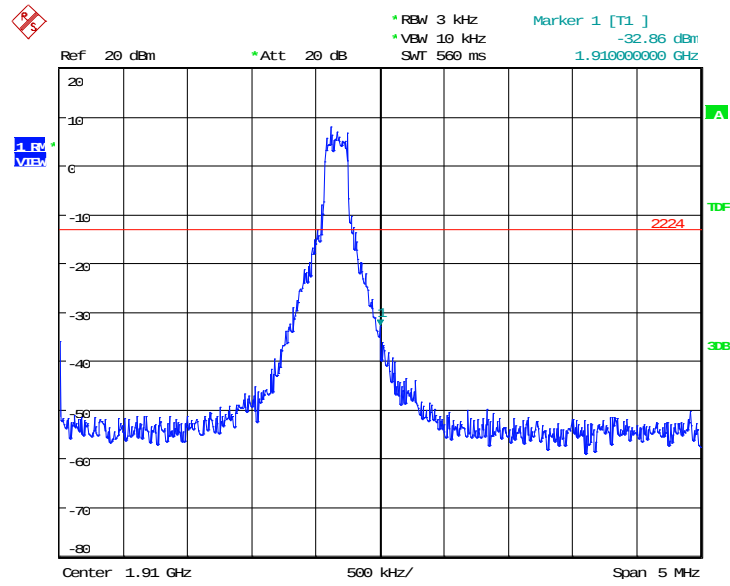
Date: 6.DEC.2019 10:26:41

OBW: 1RB-high_offset



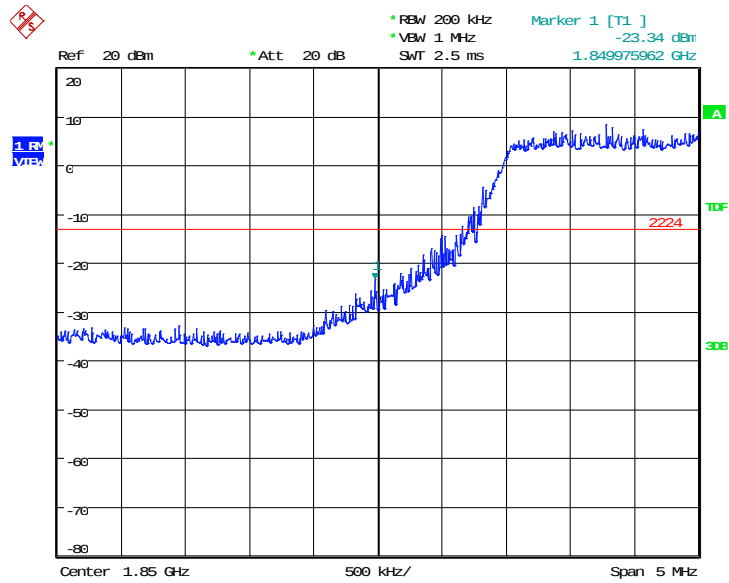
Date: 6.DEC.2019 10:04:28

HIGH BAND EDGE BLOCK-1RB-high_offset



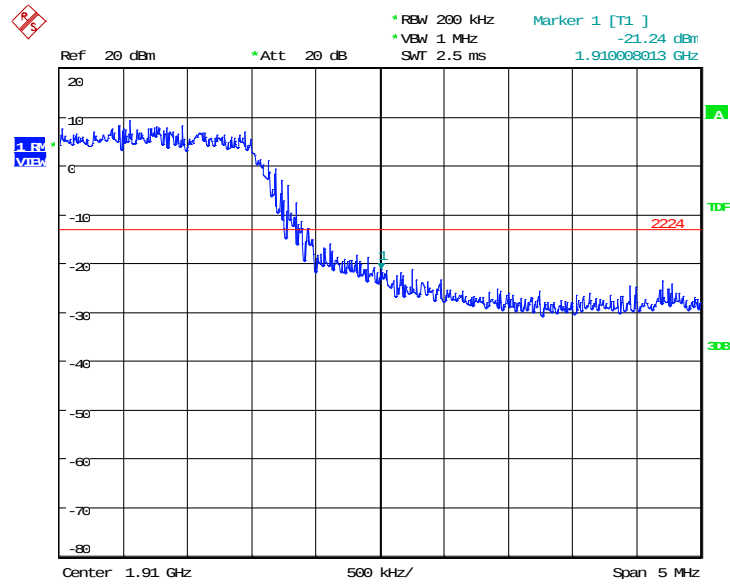
Date: 6.DEC.2019 10:05:13

LOW BAND EDGE BLOCK-20MHz-100%RB



Date: 6.DEC.2019 10:43:26

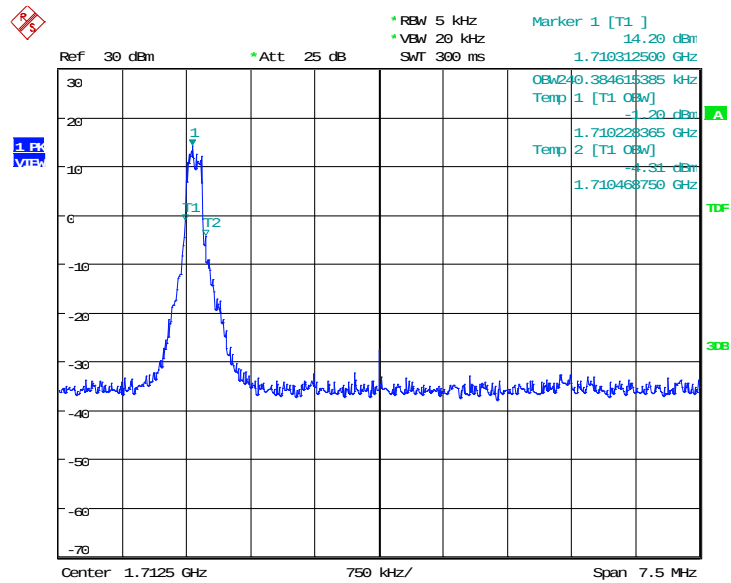
HIGH BAND EDGE BLOCK-20MHz-100%RB



Date: 6.DEC.2019 10:44:12

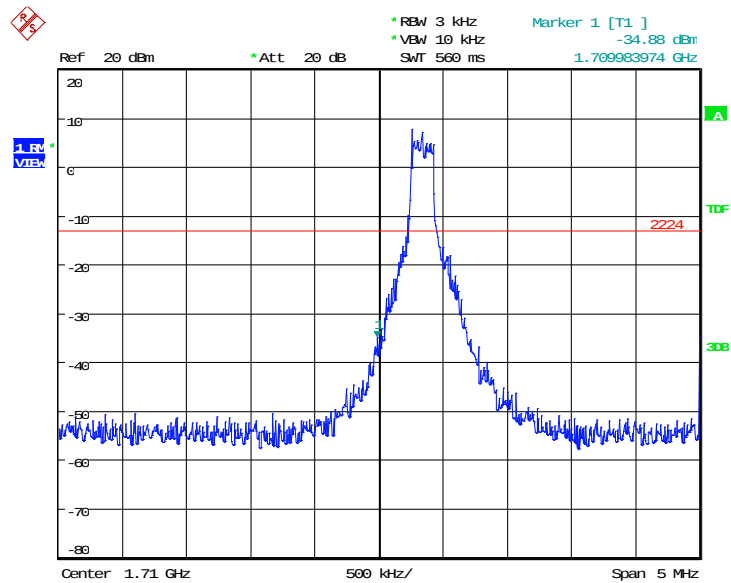
LTE band 4

OBW: 1RB-low_offset



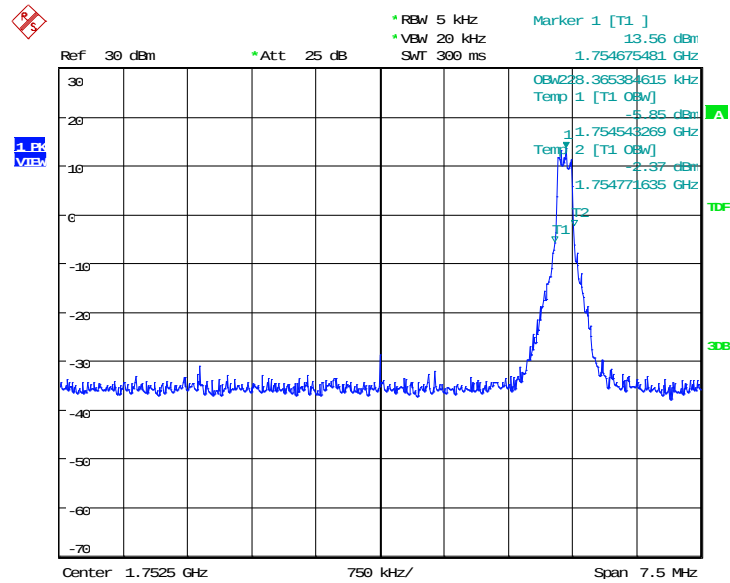
Date: 6.DEC.2019 10:27:39

LOW BAND EDGE BLOCK-1RB-low_offset



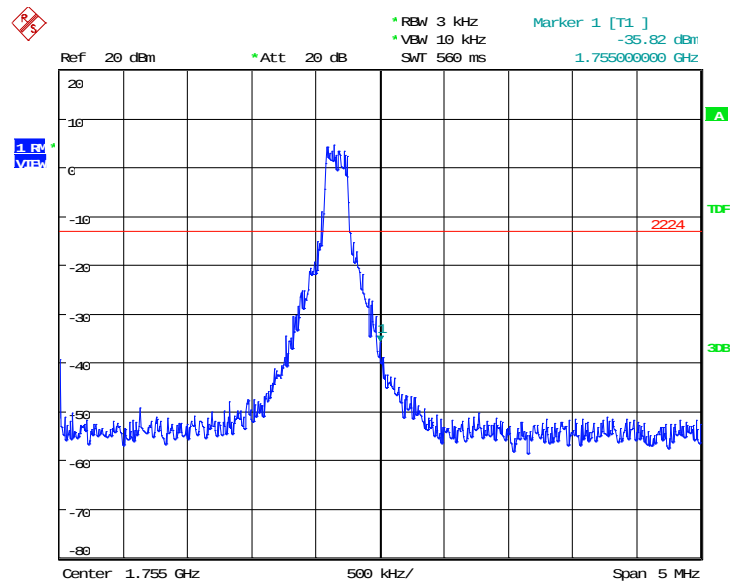
Date: 6.DEC.2019 10:28:24

OBW: 1RB-high_offset



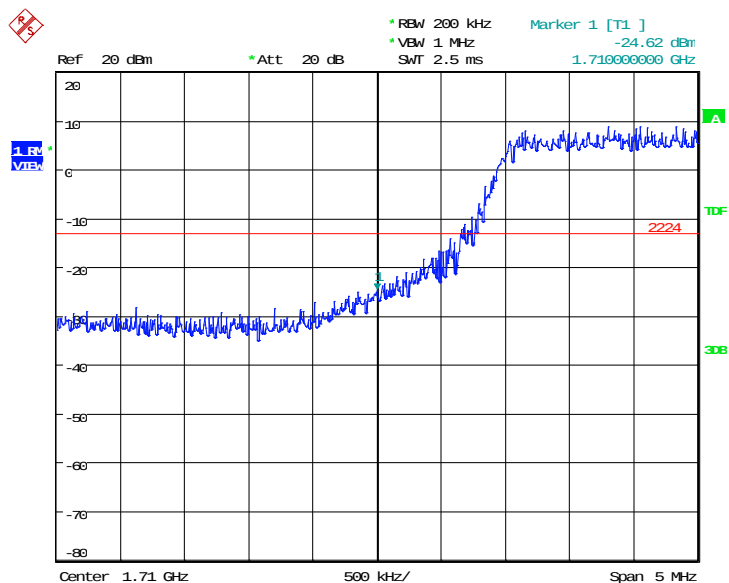
Date: 6.DEC.2019 10:06:09

HIGH BAND EDGE BLOCK-1RB-high_offset



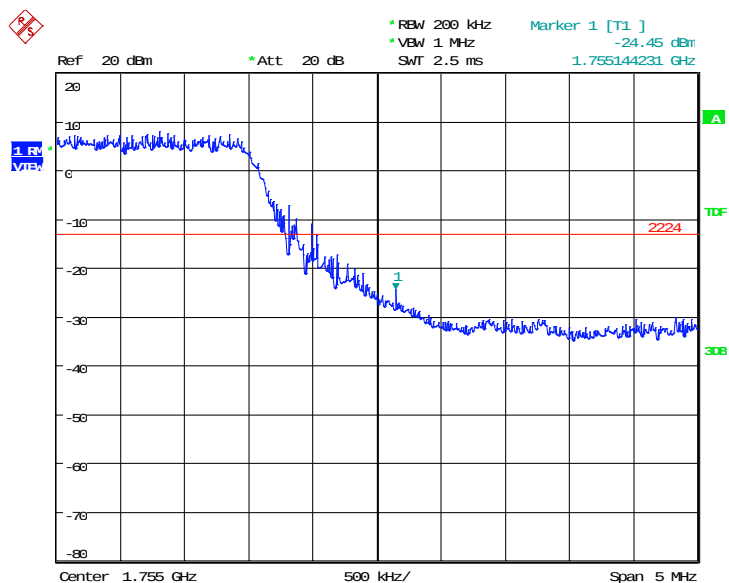
Date: 6.DEC.2019 10:06:53

LOW BAND EDGE BLOCK-20MHz-100%RB



Date: 6.DEC.2019 12:38:01

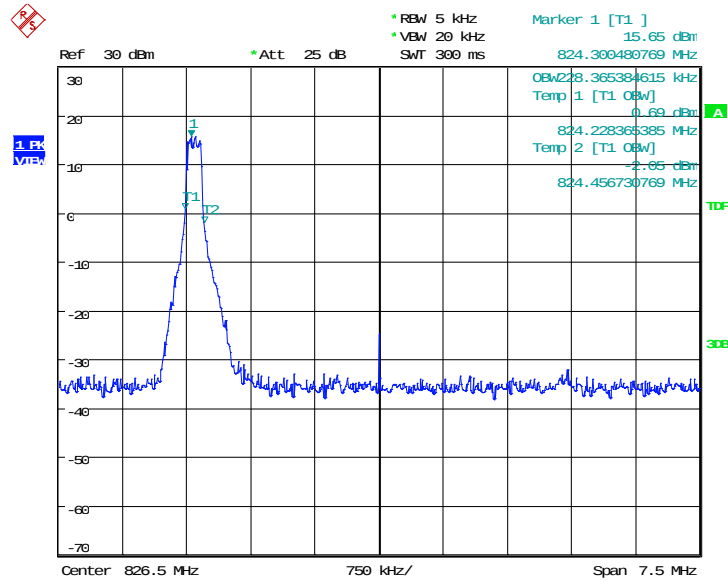
HIGH BAND EDGE BLOCK-20MHz-100%RB



Date: 6.DEC.2019 12:38:47

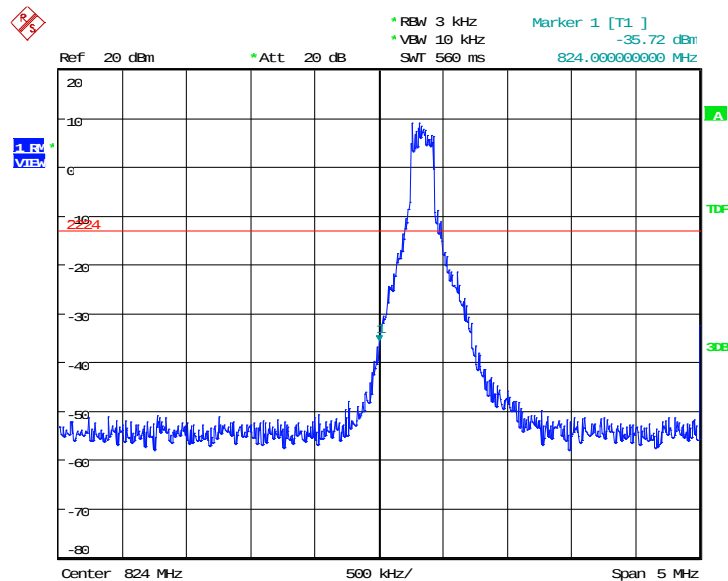
LTE band 5

OBW: 1RB-low_offset



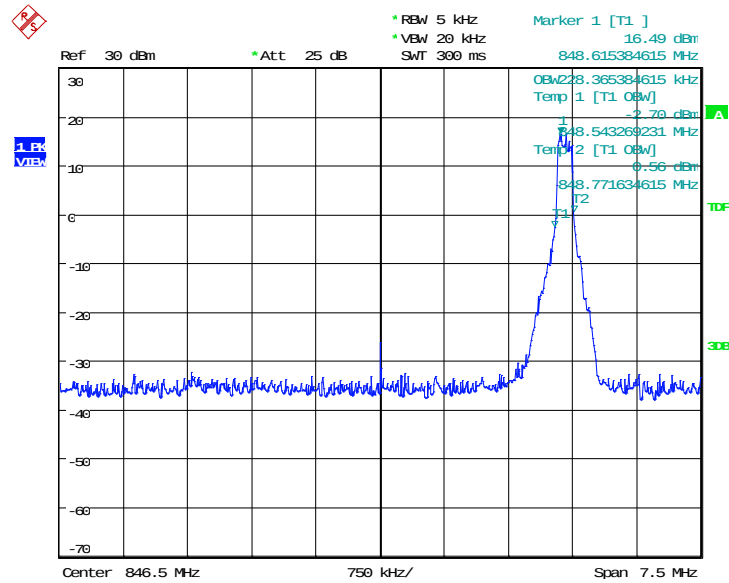
Date: 6.DEC.2019 10:24:17

LOW BAND EDGE BLOCK-1RB-low_offset



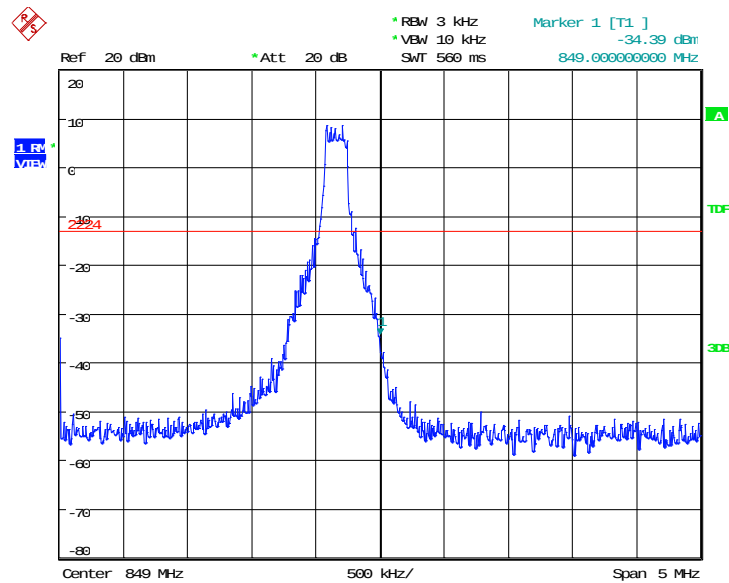
Date: 6.DEC.2019 10:25:01

OBW: 1RB-high_offset



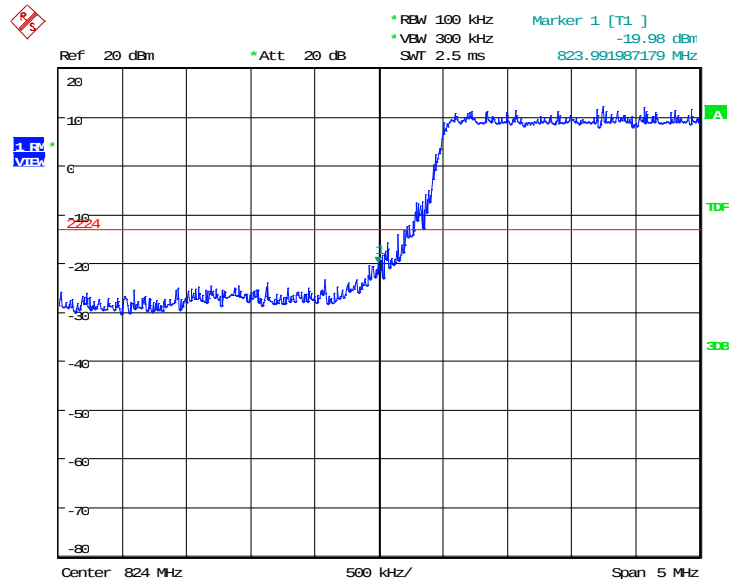
Date: 6.DEC.2019 10:02:46

HIGH BAND EDGE BLOCK-1RB-high_offset



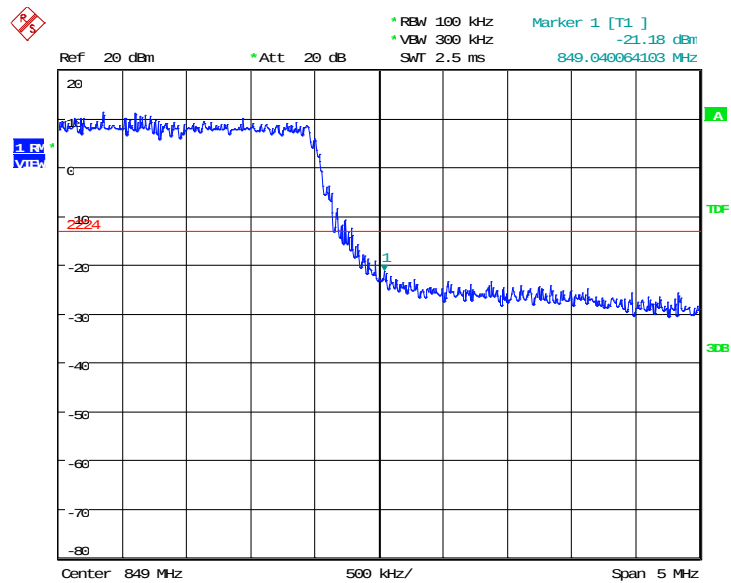
Date: 6.DEC.2019 10:03:30

LOW BAND EDGE BLOCK-10MHz-100%RB



Date: 6.DEC.2019 10:52:57

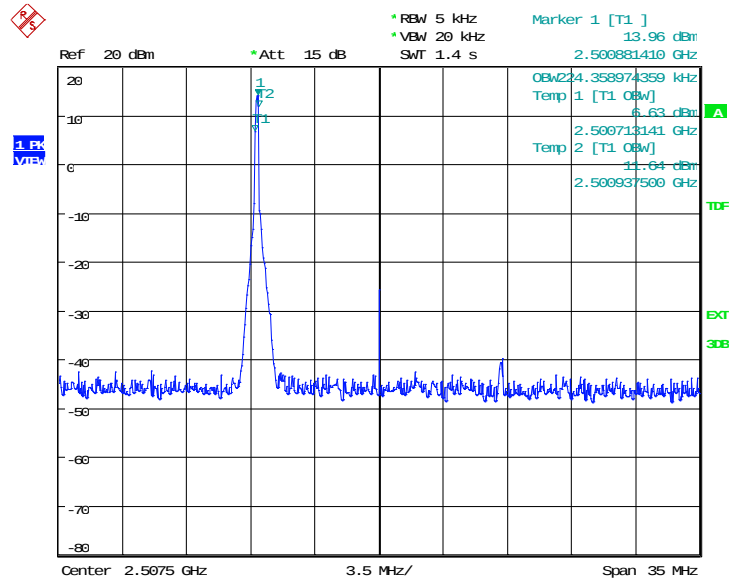
HIGH BAND EDGE BLOCK-10MHz-100%RB



Date: 6.DEC.2019 10:53:43

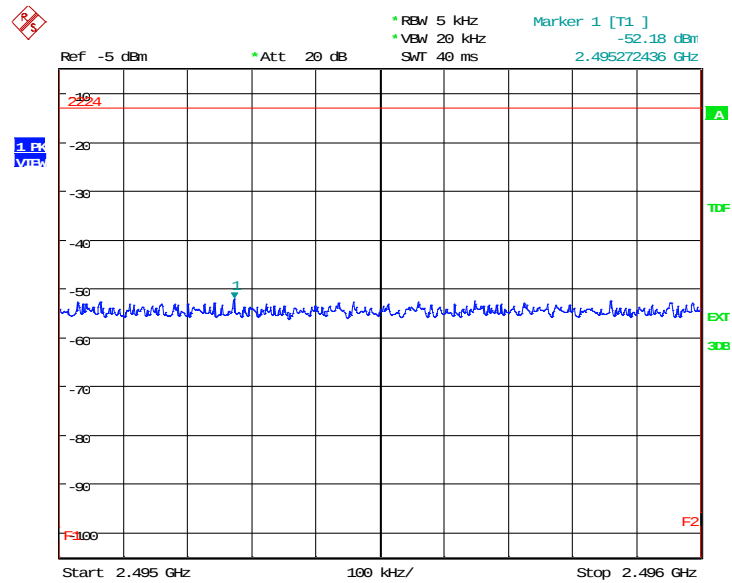
LTE band 7

OBW: 1RB-low_offset

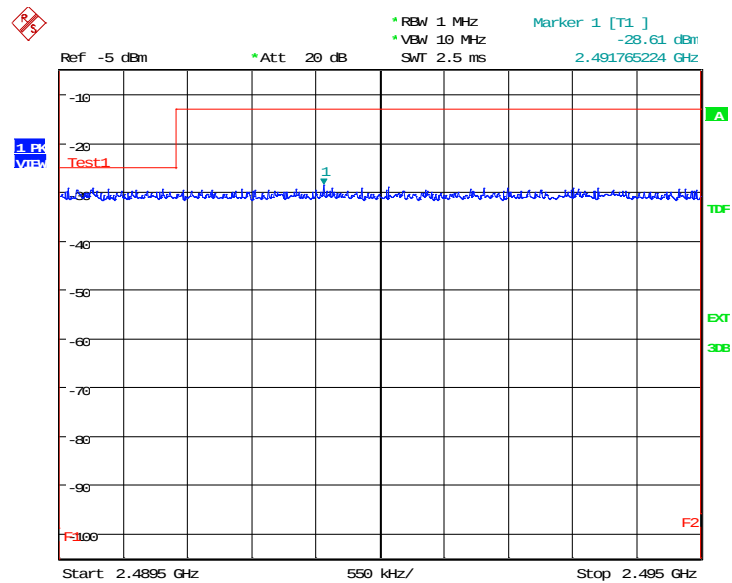


Date: 18.JAN.2020 13:49:10

LOW BAND EDGE BLOCK-1RB-low_offset

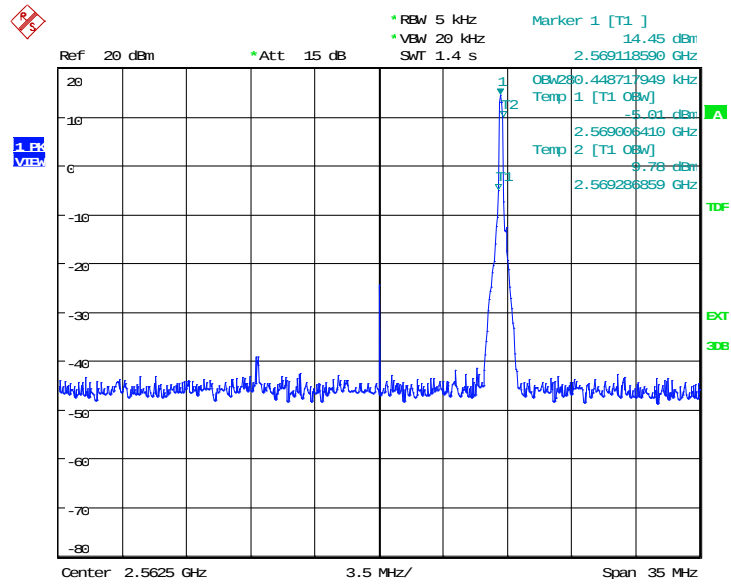


Date: 18.JAN.2020 13:53:17



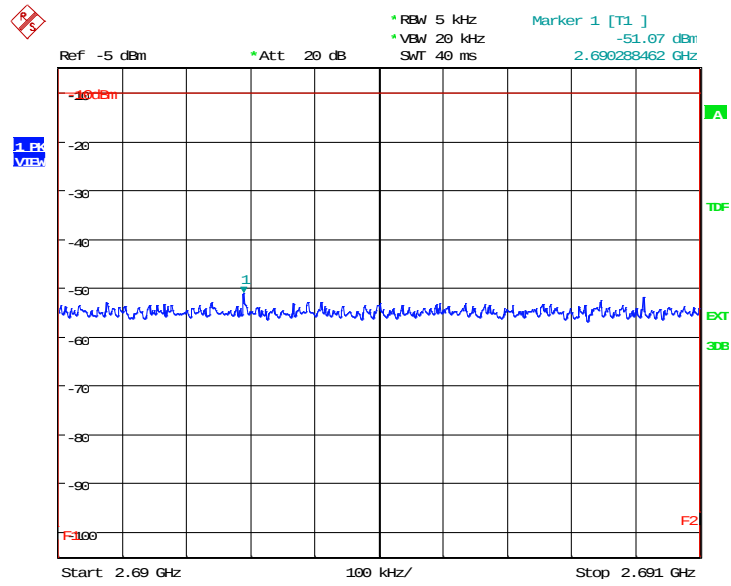
Date: 18.JAN.2020 14:12:53

OBW: 1RB-high_offset

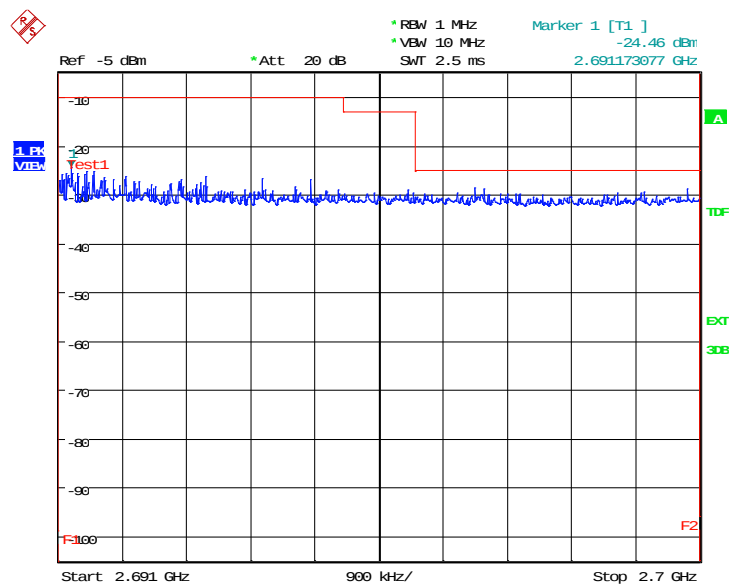


Date: 18.JAN.2020 14:15:10

HIGH BAND EDGE BLOCK-1RB-high_offset

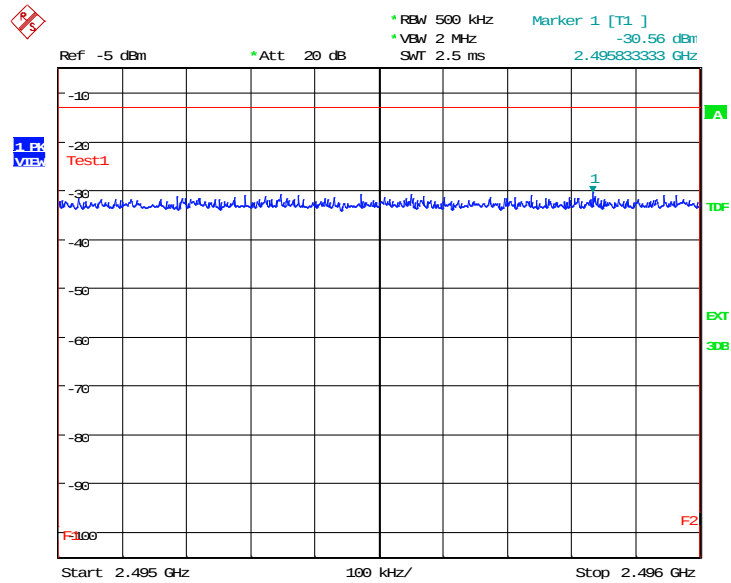


Date: 18.JAN.2020 14:19:20

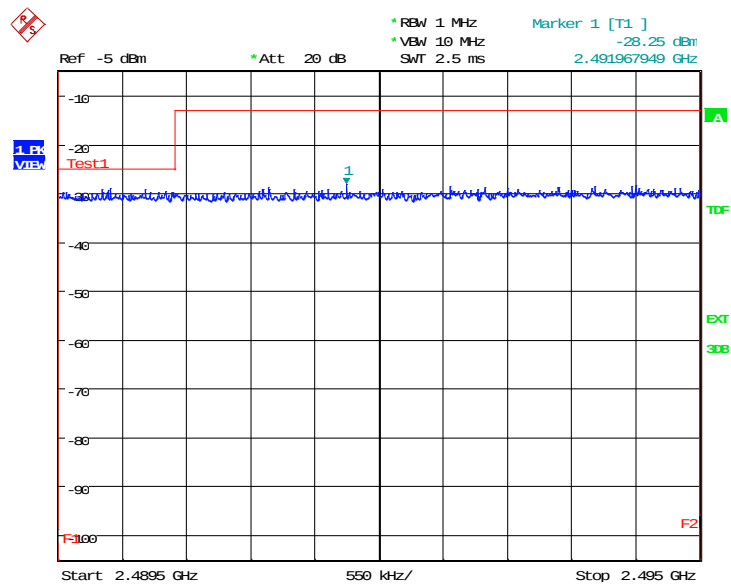


Date: 18.JAN.2020 14:31:37

LOW BAND EDGE BLOCK-20MHz-100%RB

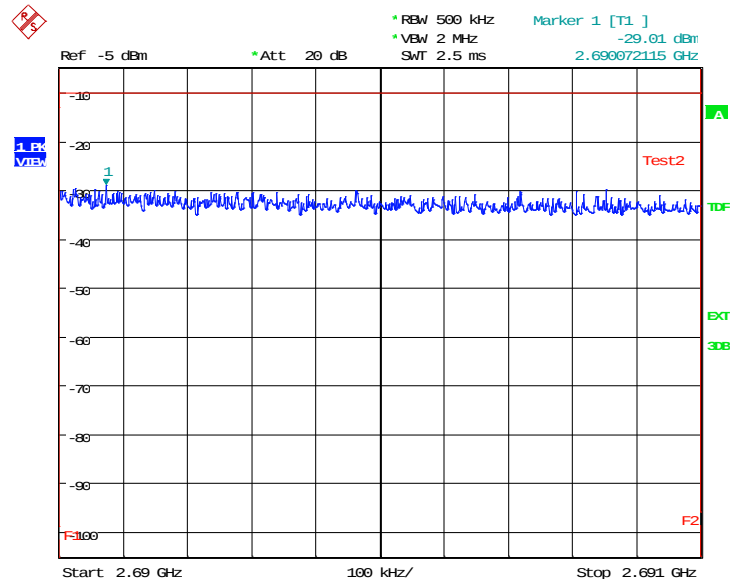


Date: 18.JAN.2020 14:35:05

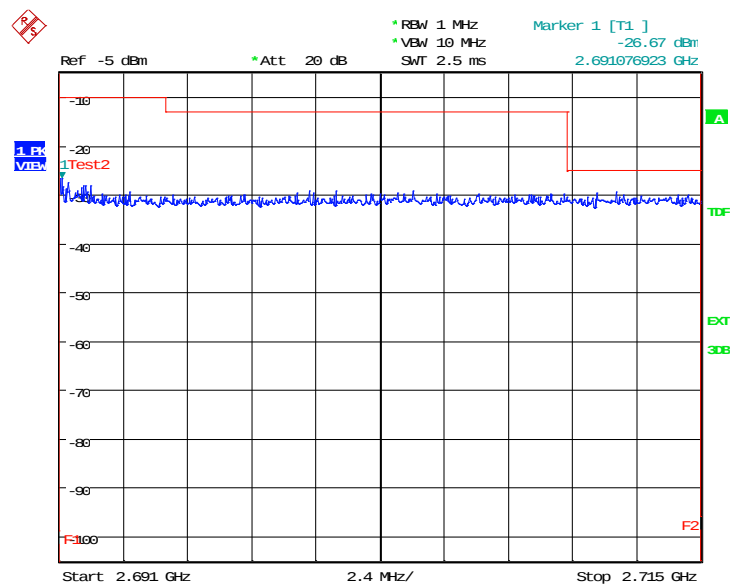


Date: 18.JAN.2020 14:36:30

HIGH BAND EDGE BLOCK-20MHz-100%RB



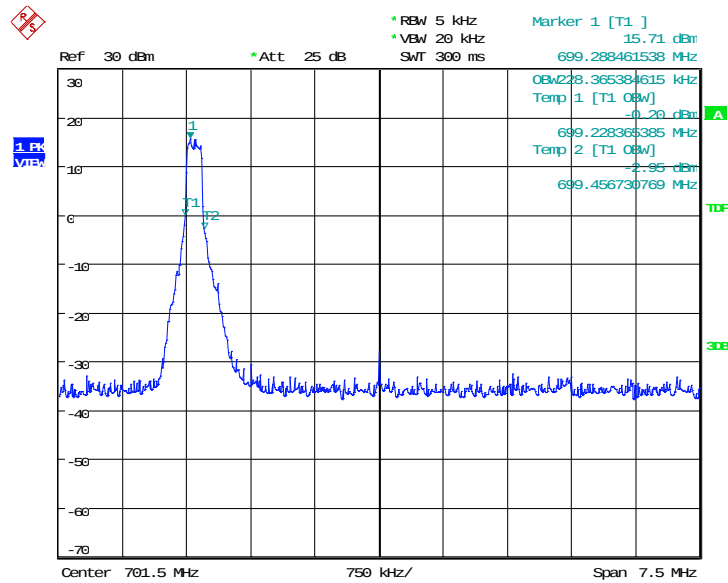
Date: 18.JAN.2020 14:54:12



Date: 18.JAN.2020 14:52:24

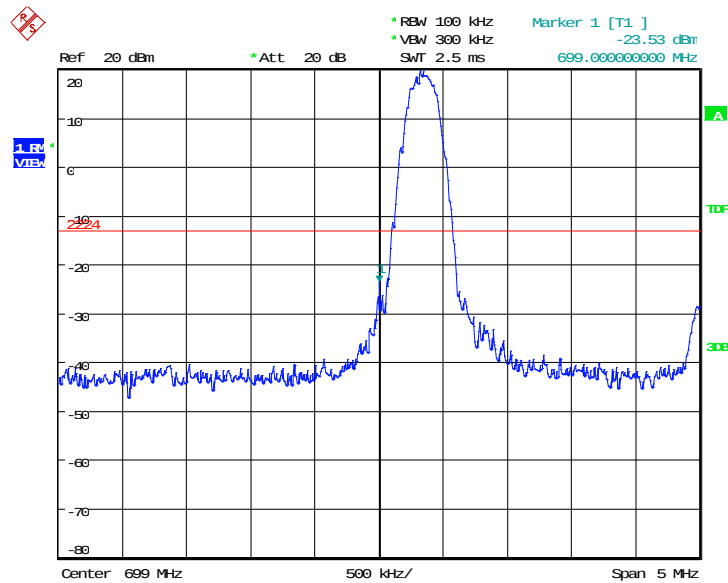
LTE band 12

OBW: 1RB-low_offset



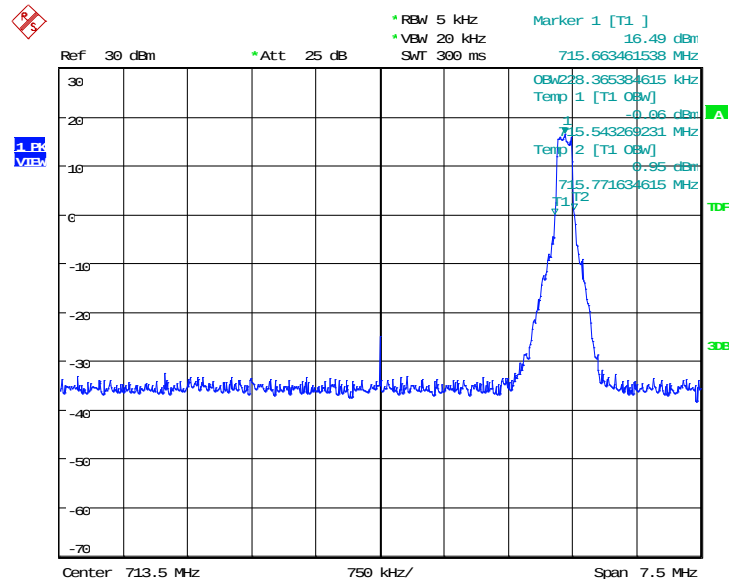
Date: 6.DEC.2019 10:29:20

LOW BAND EDGE BLOCK-1RB-low_offset



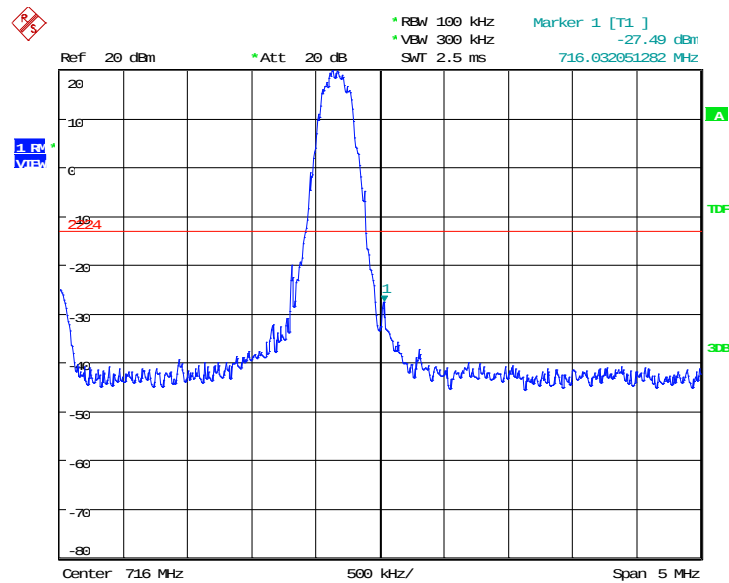
Date: 6.DEC.2019 10:30:04

OBW: 1RB-high_offset



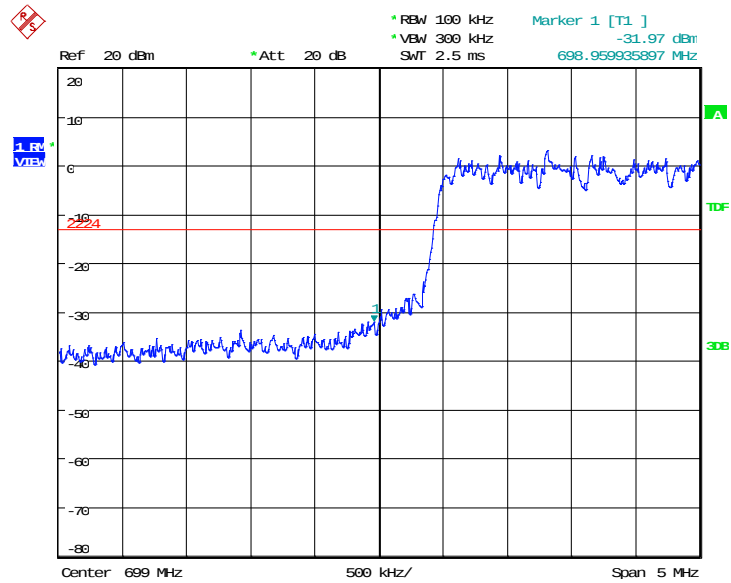
Date: 6.DEC.2019 10:07:51

HIGH BAND EDGE BLOCK-1RB-high_offset



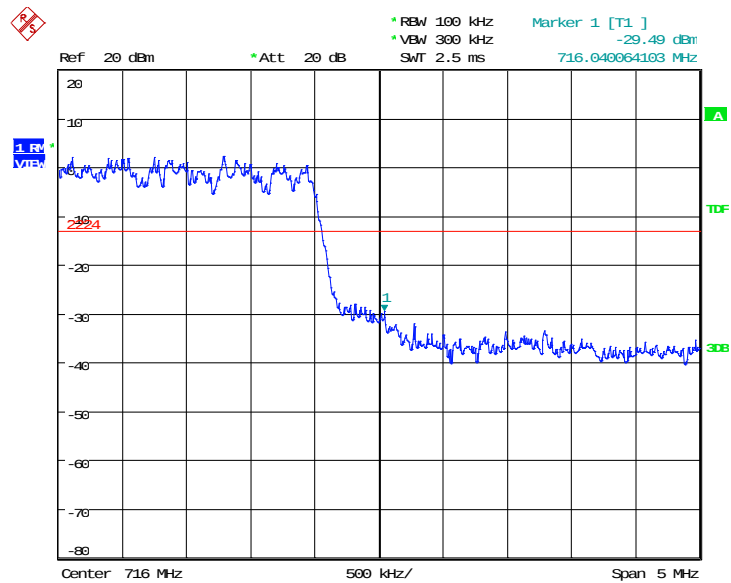
Date: 6.DEC.2019 10:08:35

LOW BAND EDGE BLOCK-10MHz-100%RB



Date: 6.DEC.2019 10:55:32

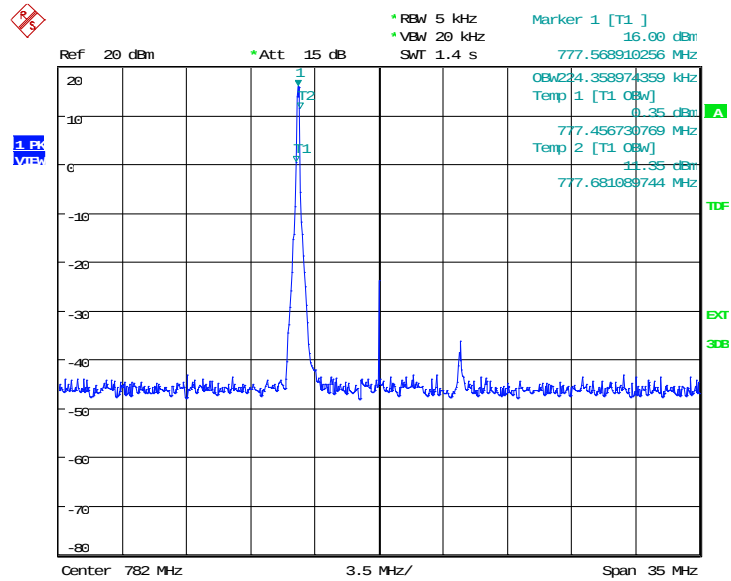
HIGH BAND EDGE BLOCK-10MHz-100%RB



Date: 6.DEC.2019 10:56:19

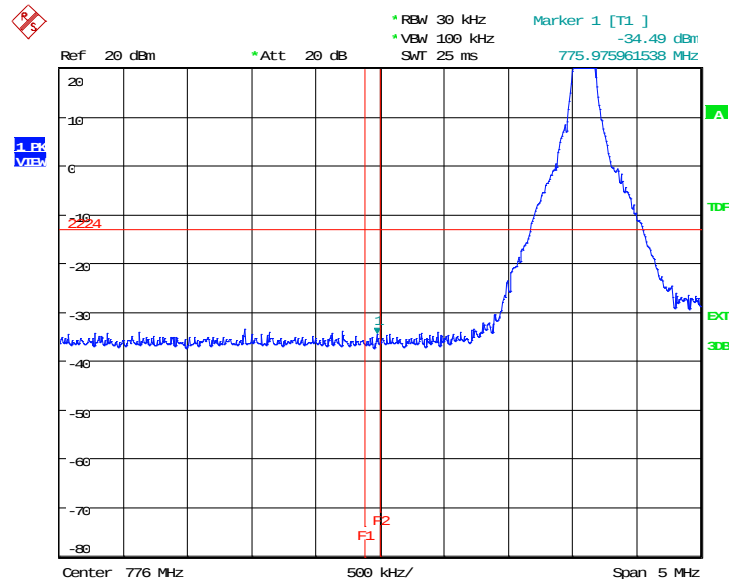
LTE band 13

OBW: 1RB-low_offset

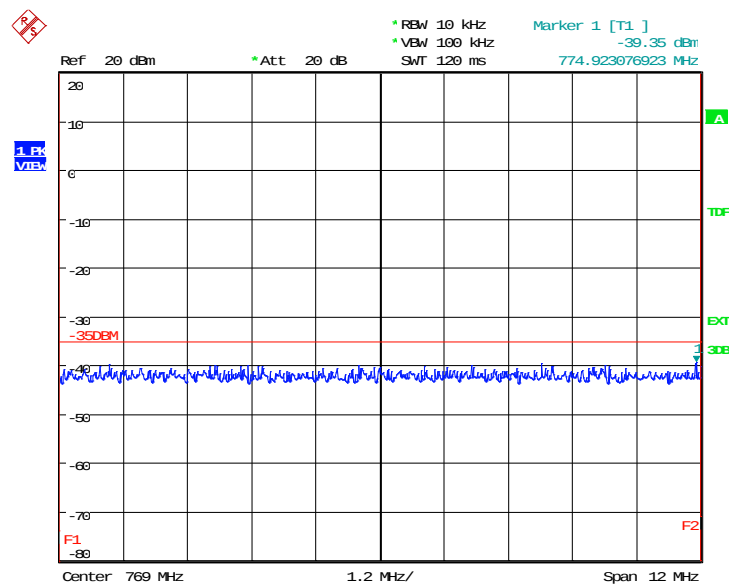


Date: 18.JAN.2020 13:34:15

LOW BAND EDGE BLOCK-1RB-low_offset

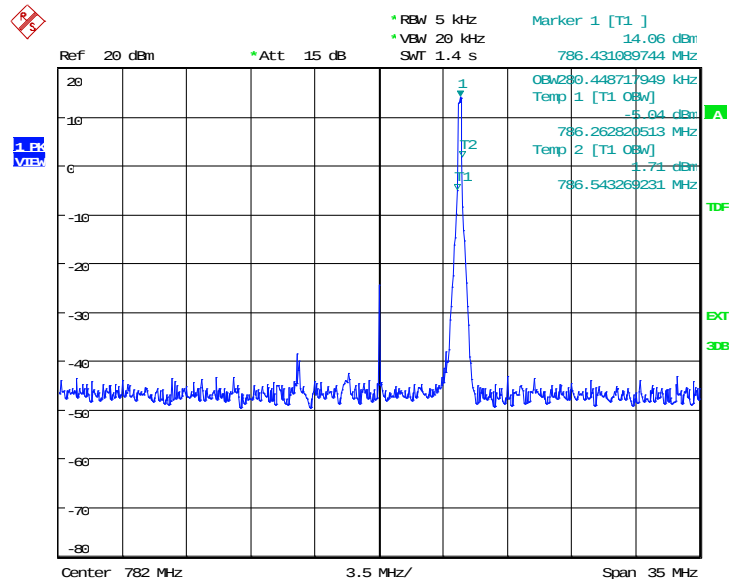


Date: 18.JAN.2020 13:35:43



Date: 18.JAN.2020 13:36:58

OBW: 1RB-high_offset



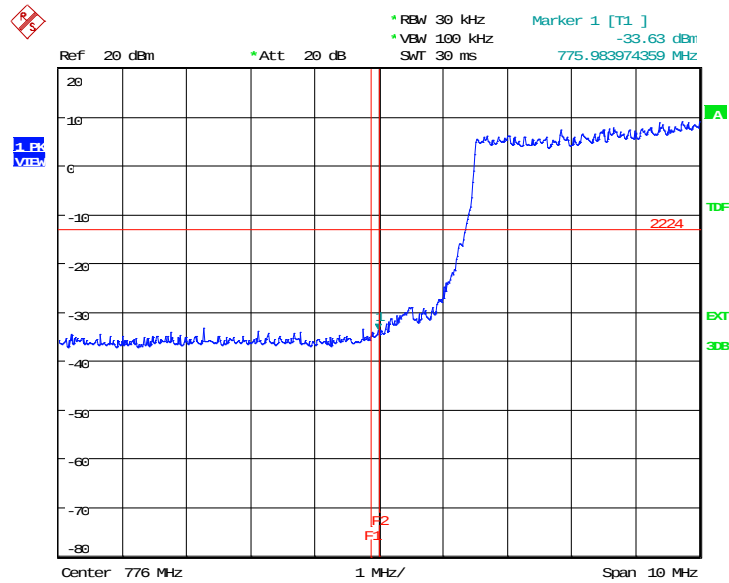
Date: 18.JAN.2020 13:41:38

The screenshot shows a Spectrum Analyzer interface with the following details:

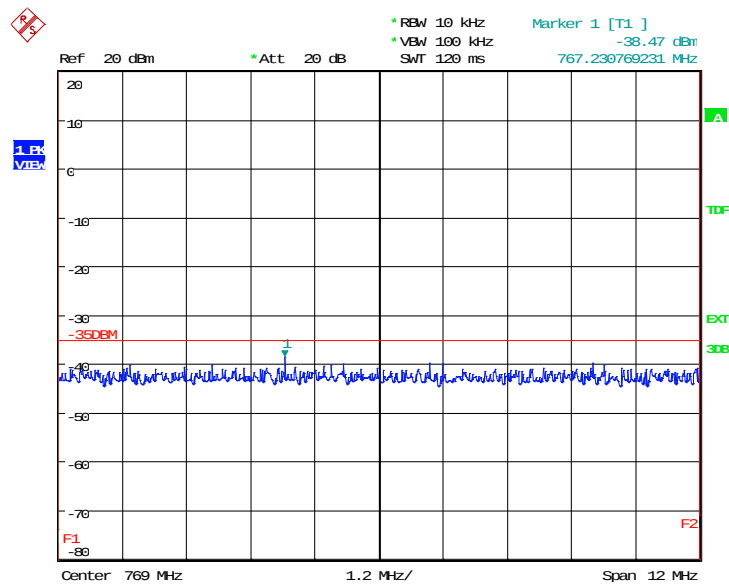
- Top Bar:**
 - Left: A red diamond icon with a white 'A' inside.
 - Center: "Ref 20 dBm" and "*Att 20 dB".
 - Right: "*RBW 10 kHz", "*VBW 100 kHz", "SWT 120 ms", "Marker 1 [T1]", "-39.54 dBm", and "801.307692308 MHz".
- Grid:** A 10x10 grid with major lines every 10 dB and minor lines every 2 dB.
- Y-axis (Left):** Labeled from -80 to 20 in increments of 10. A blue "F1" label is at the bottom left.
- Y-axis (Right):** Labeled with "A" at the top, "TDF" in the middle, "EXT" below that, and "30B" at the bottom.
- Trace:** A blue, noisy horizontal line representing the signal spectrum, centered around -40 dBm.
- Marker:** A green vertical line labeled "1" is positioned at approximately 801.307692308 MHz.
- Bottom Bar:**
 - Left: "Center 799 MHz" and "1.2 MHz/".
 - Right: "Span 12 MHz".
- Other Labels:** A blue "F2" label is at the bottom right, and a red "F1" label is at the bottom left.

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LOW BAND EDGE BLOCK-5MHz-100%RB

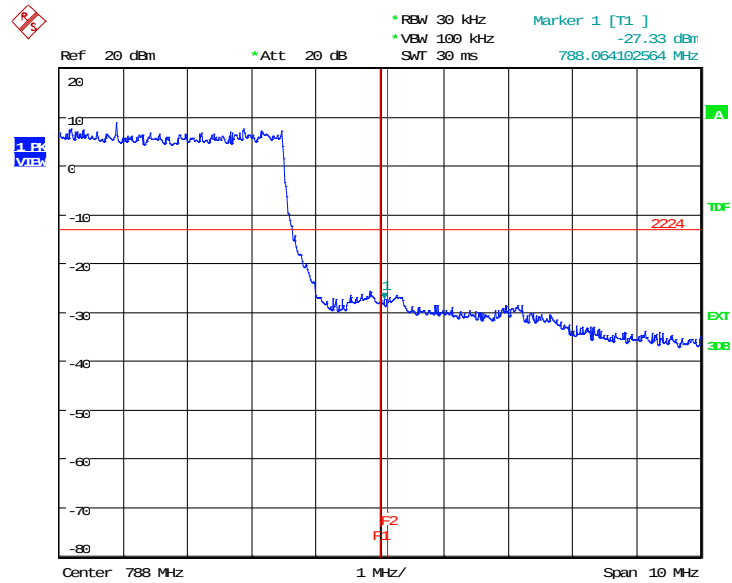


Date: 18. JAN. 2020 13:31:21

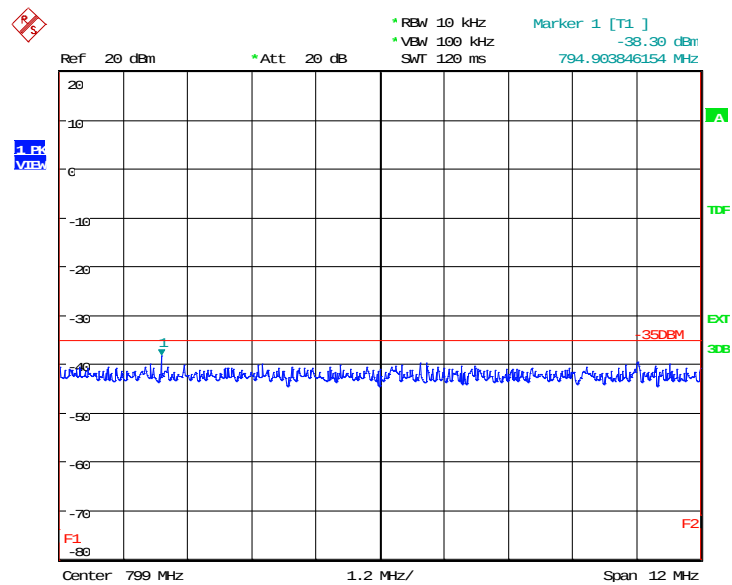


Date: 18. JAN. 2020 13:32:41

HIGH BAND EDGE BLOCK-5MHz-100%RB



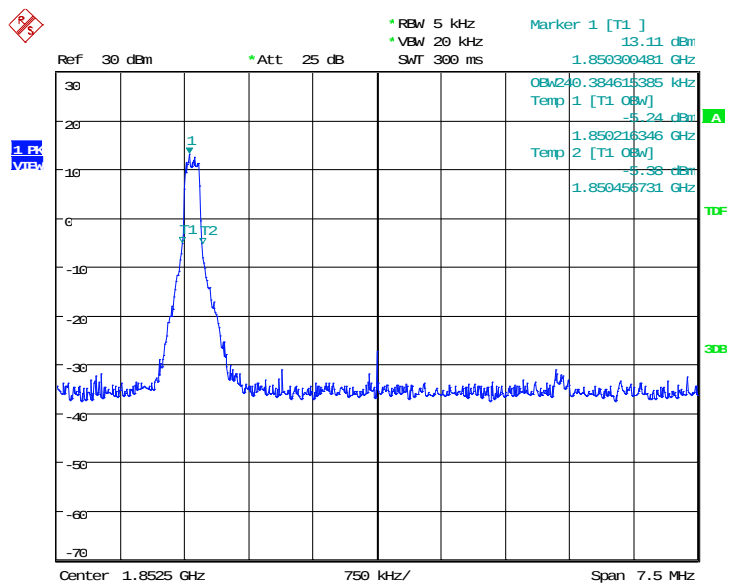
Date: 18. JAN. 2020 13:29:50



Date: 18. JAN. 2020 13:28:34

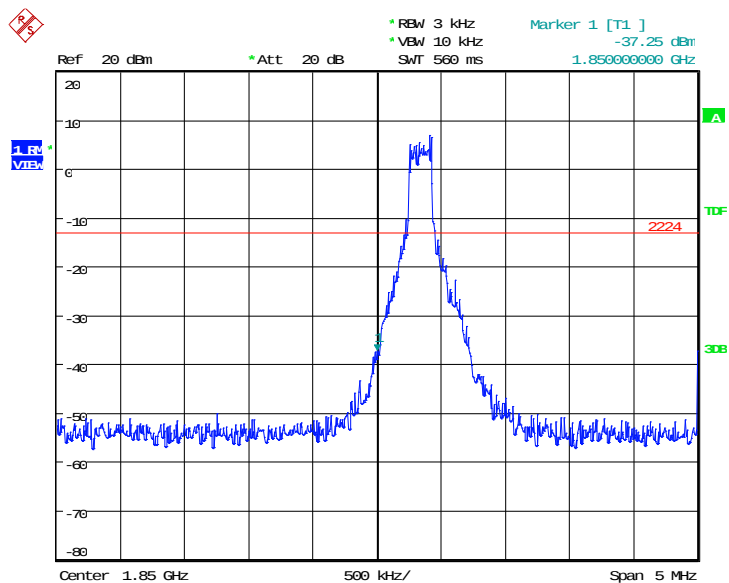
LTE band 25

OBW: 1RB-low_offset



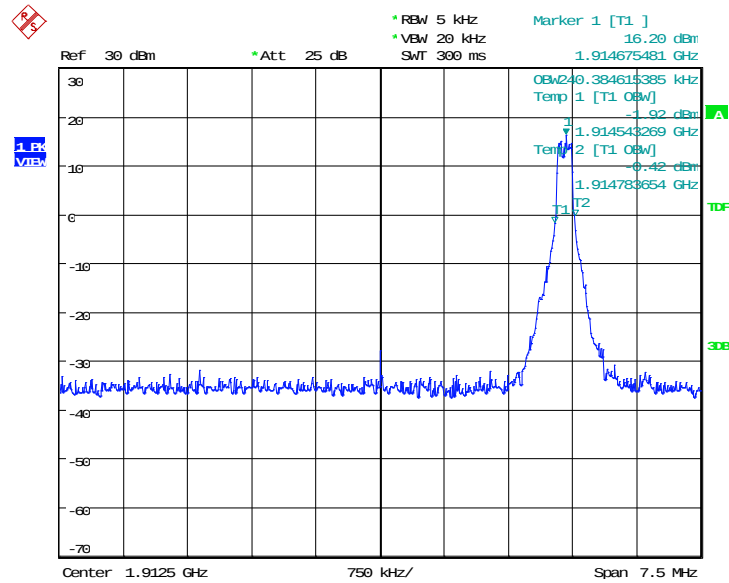
Date: 6.DEC.2019 10:31:00

LOW BAND EDGE BLOCK-1RB-low_offset



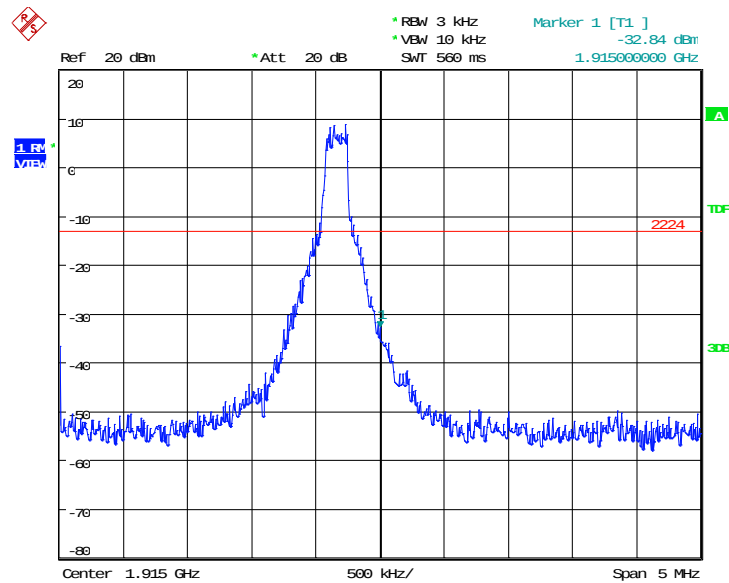
Date: 6.DEC.2019 10:31:44

OBW: 1RB-high_offset



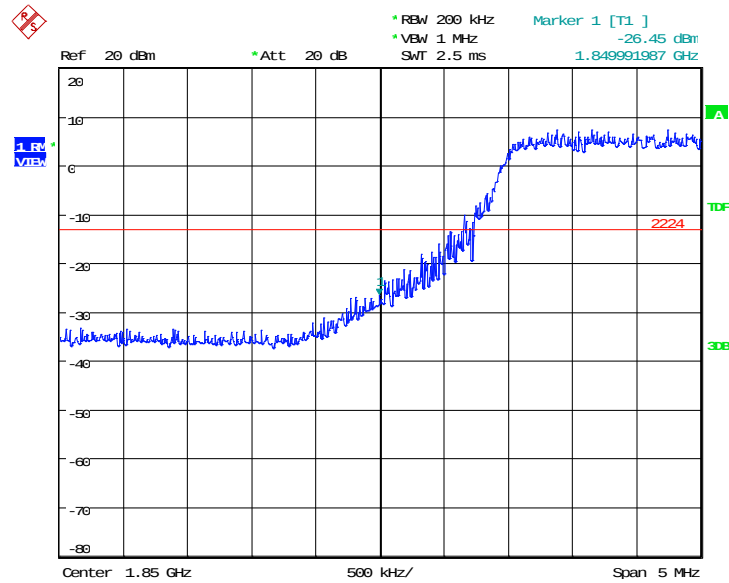
Date: 6.DEC.2019 10:09:32

HIGH BAND EDGE BLOCK-1RB-high_offset



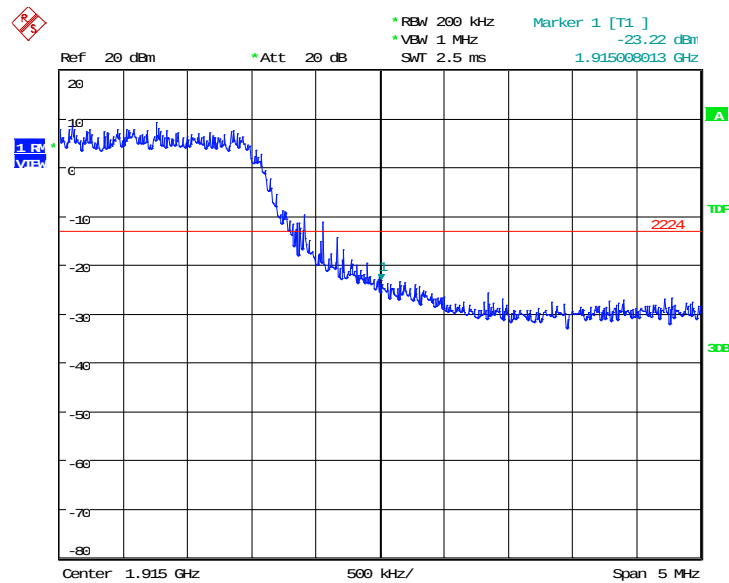
Date: 6.DEC.2019 10:10:16

LOW BAND EDGE BLOCK-20MHz-100%RB



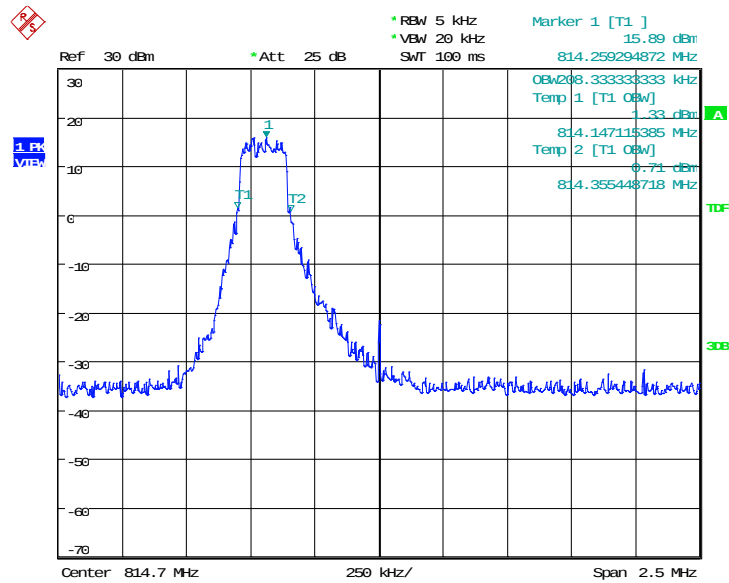
Date: 6.DEC.2019 11:51:11

HIGH BAND EDGE BLOCK-20MHz-100%RB



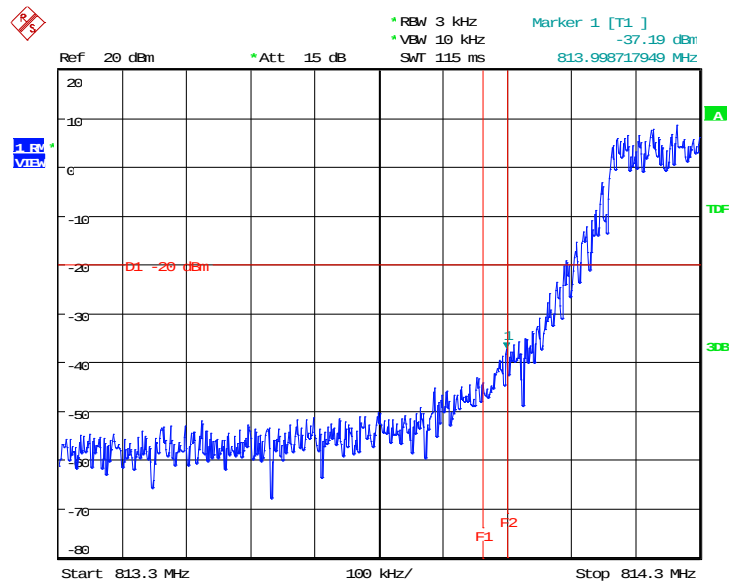
Date: 6.DEC.2019 11:51:57

LTE band 26(814MHz-824MHz) OBW: 1RB-low_offset



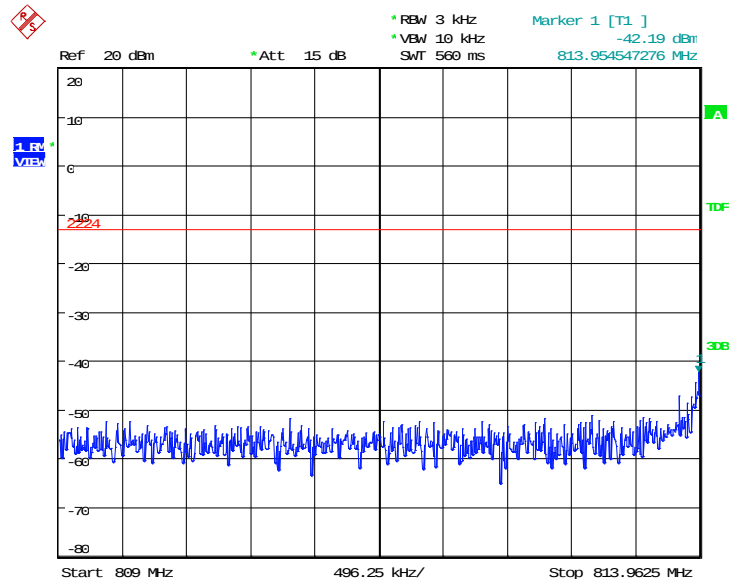
Date: 6.DEC.2019 11:36:46

LOW Emission Mask -1RB-low_offset



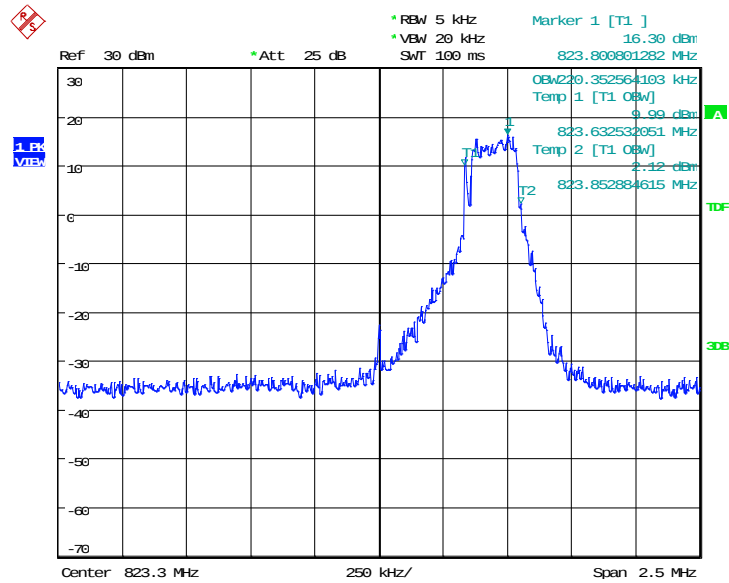
Date: 6.DEC.2019 11:37:29

LOW BAND EDGE BLOCK-1RB-low_offset



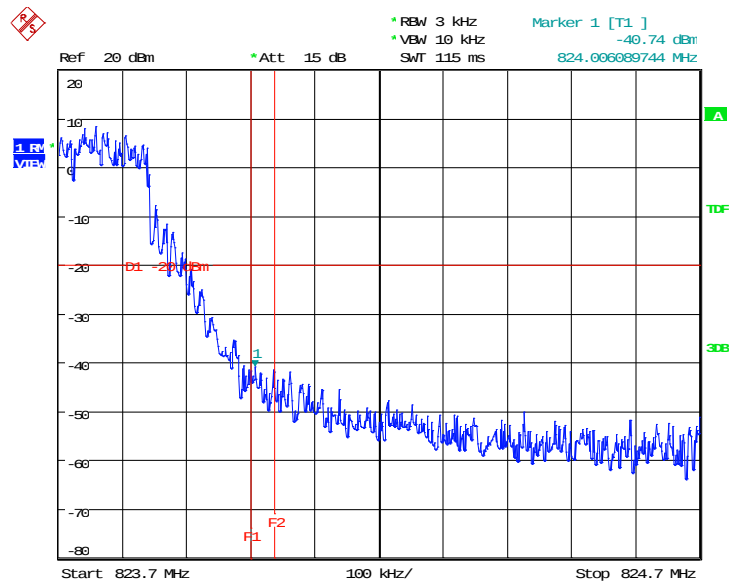
Date: 6.DEC.2019 11:37:31

OBW: 1RB-high_offset



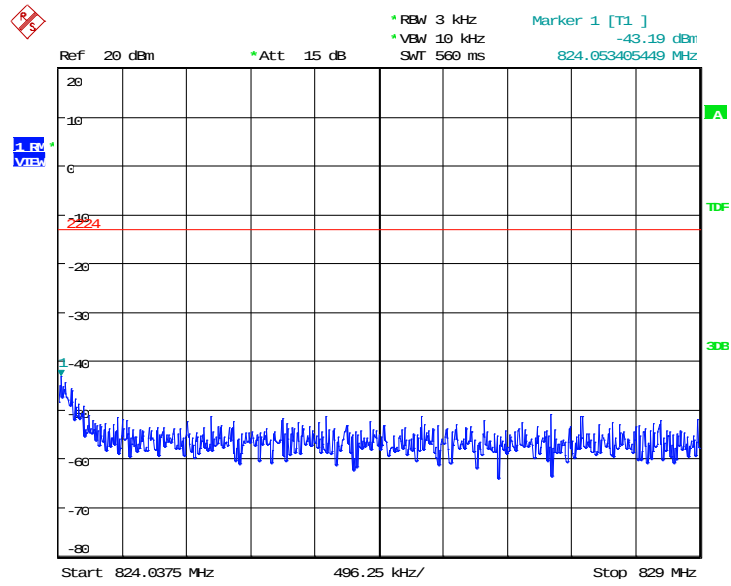
Date: 6.DEC.2019 11:32:24

HIGH Emission Mask -1RB-high_offset



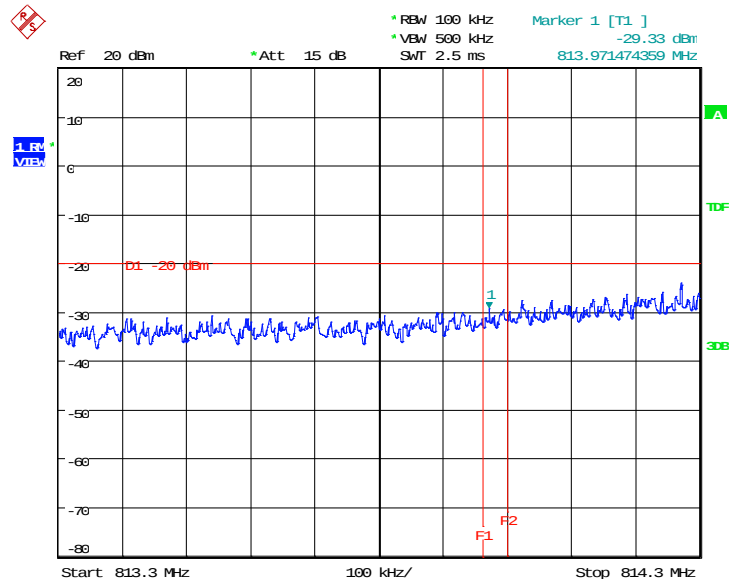
Date: 6.DEC.2019 11:33:07

HIGH BAND EDGE BLOCK-1RB-high_offset



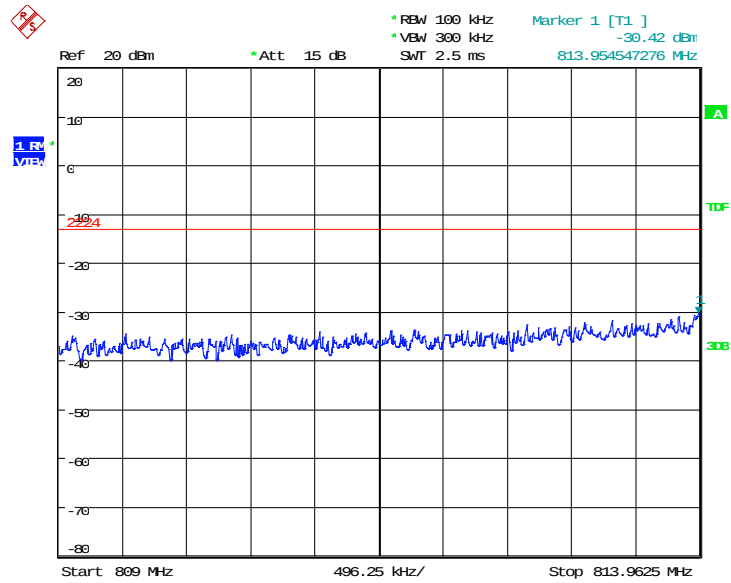
Date: 6.DEC.2019 11:33:10

LOW Emission Mask -10MHz-100%RB



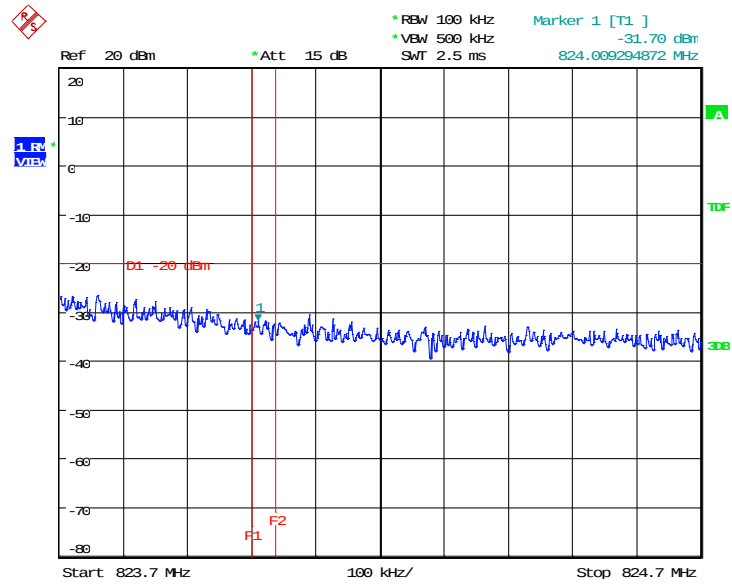
Date: 6.DEC.2019 11:26:41

LOW BAND EDGE BLOCK-10MHz-100%RB



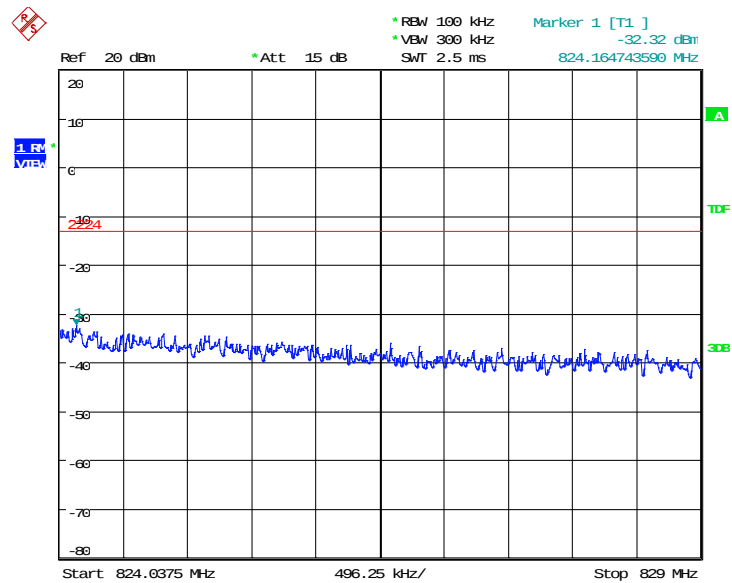
Date: 6.DEC.2019 11:26:43

HIGH Emission Mask -10MHz-100%RB



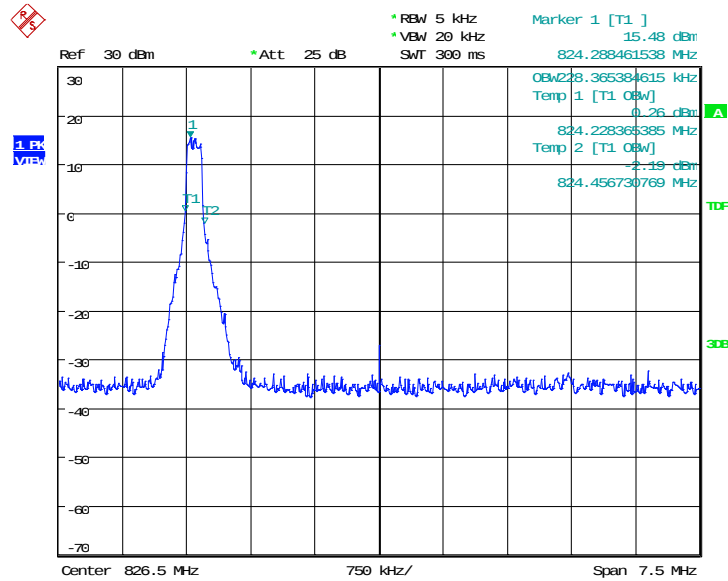
Date: 6.DEC.2019 11:27:29

HIGH BAND EDGE BLOCK-10MHz-100%RB



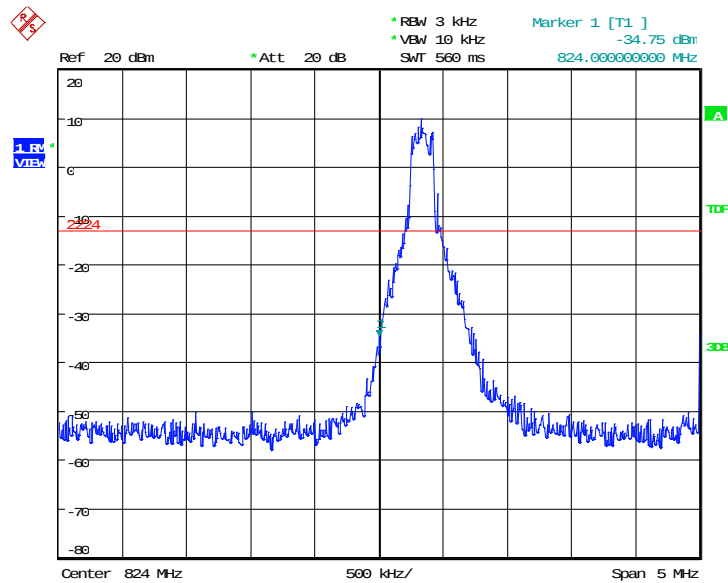
Date: 6.DEC.2019 11:27:31

LTE band 26(824MHz-849MHz) OBW: 1RB-low_offset



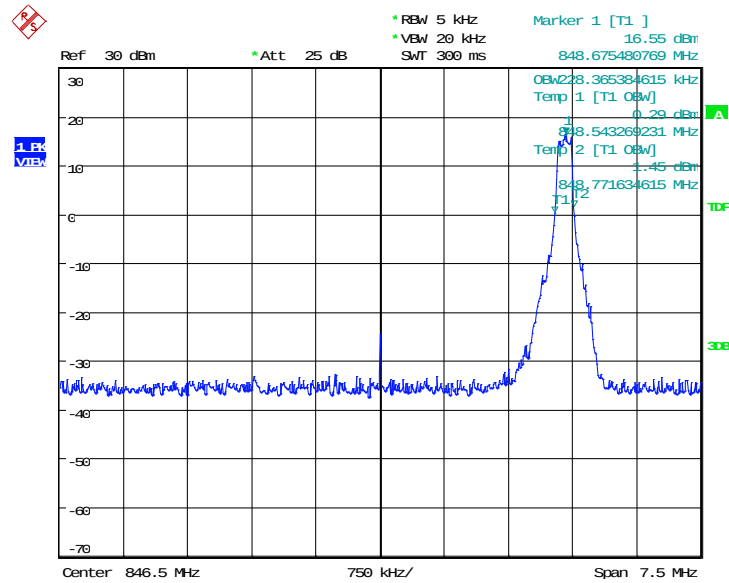
Date: 6.DEC.2019 10:34:22

LOW BAND EDGE BLOCK-1RB-low_offset



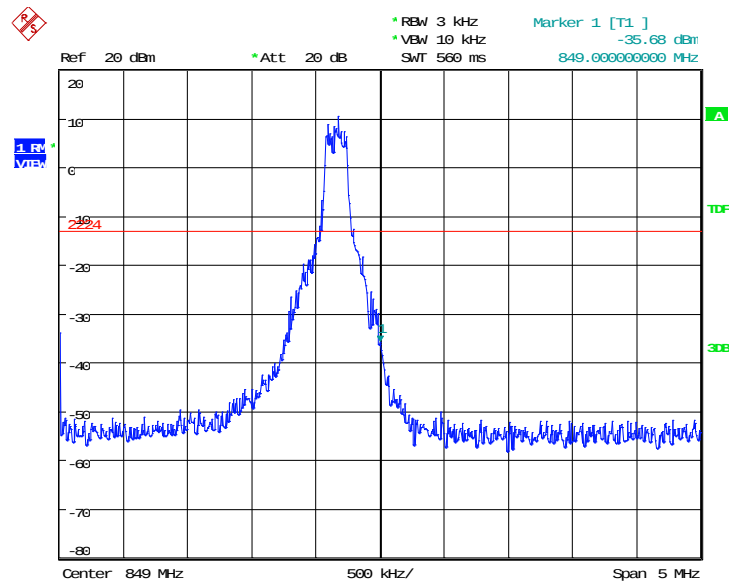
Date: 6.DEC.2019 10:35:07

OBW: 1RB-high_offset



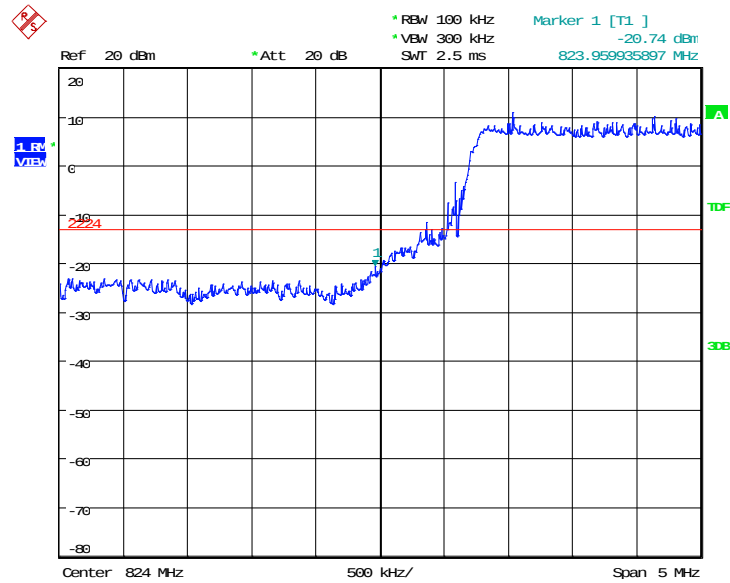
Date: 6.DEC.2019 10:12:57

HIGH BAND EDGE BLOCK-1RB-high_offset



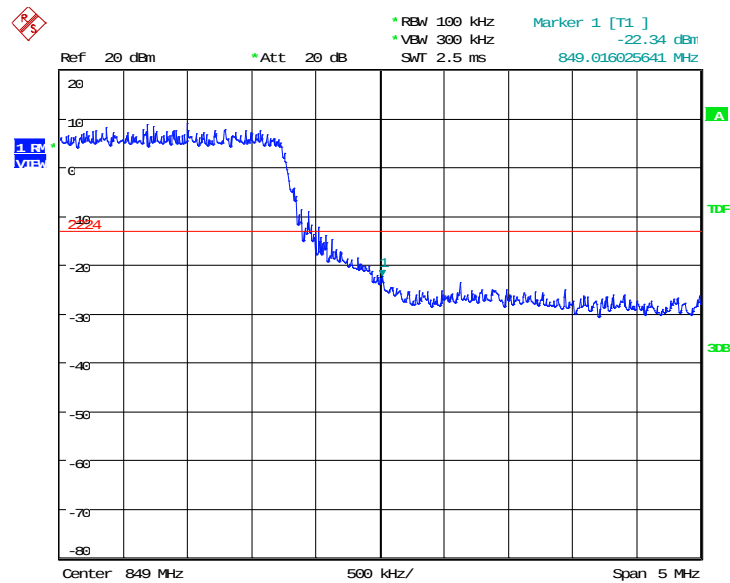
Date: 6.DEC.2019 10:13:41

LOW BAND EDGE BLOCK-15MHz-100%RB



Date: 6.DEC.2019 12:04:30

HIGH BAND EDGE BLOCK-15MHz-100%RB

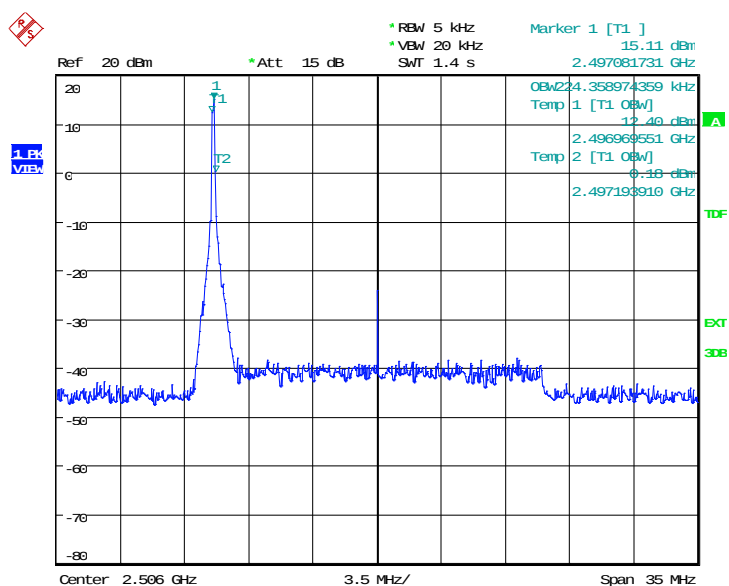


Date: 6.DEC.2019 12:05:17

Normal Power

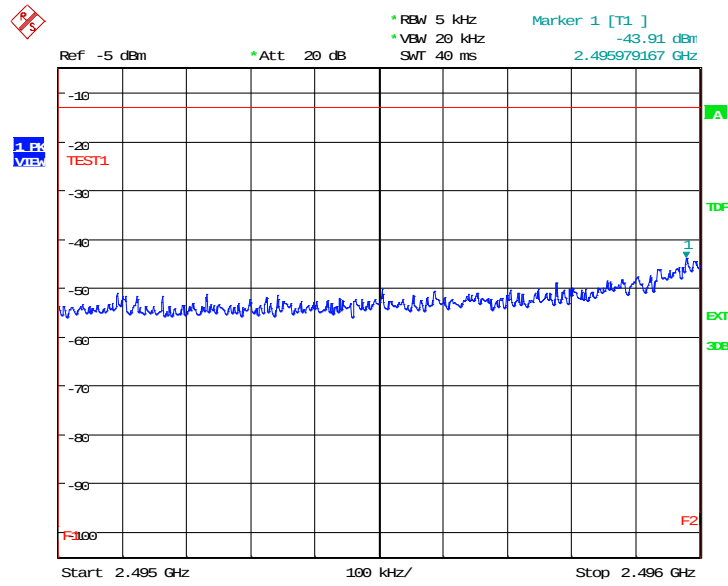
LTE band 41

OBW: 1RB-low_offset

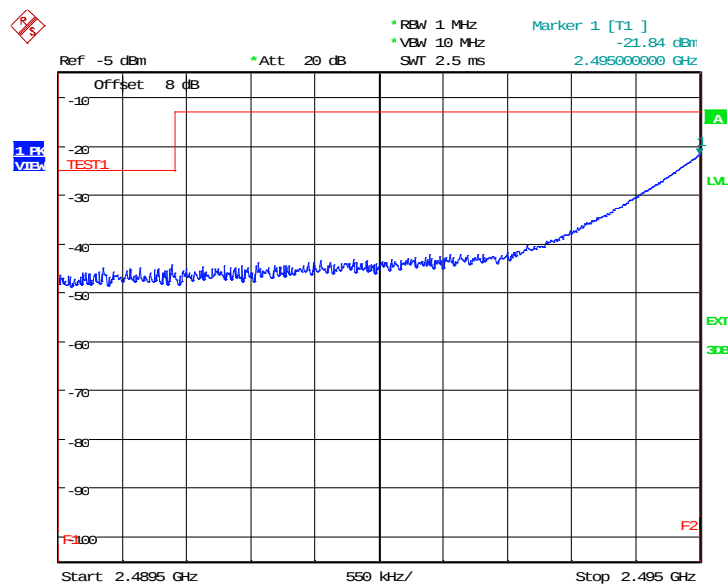


Date: 18. JAN. 2020 15:05:33

LOW BAND EDGE BLOCK-1RB-low_offset

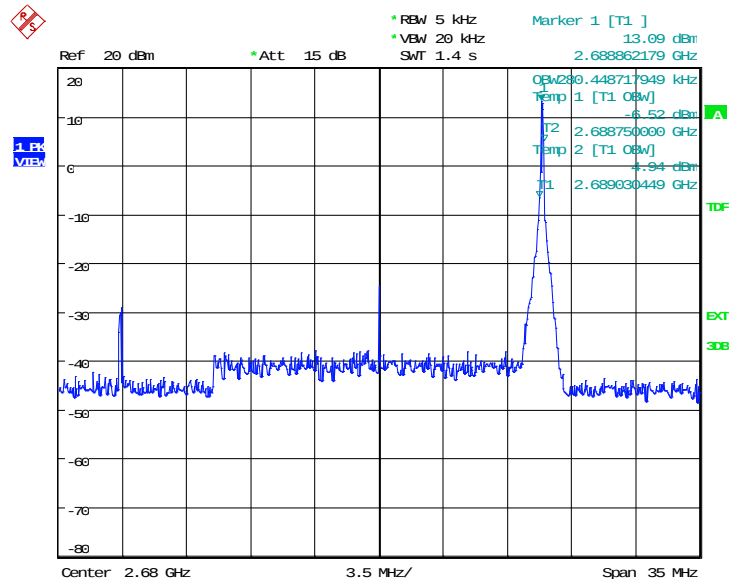


Date: 18.JAN.2020 15:07:24



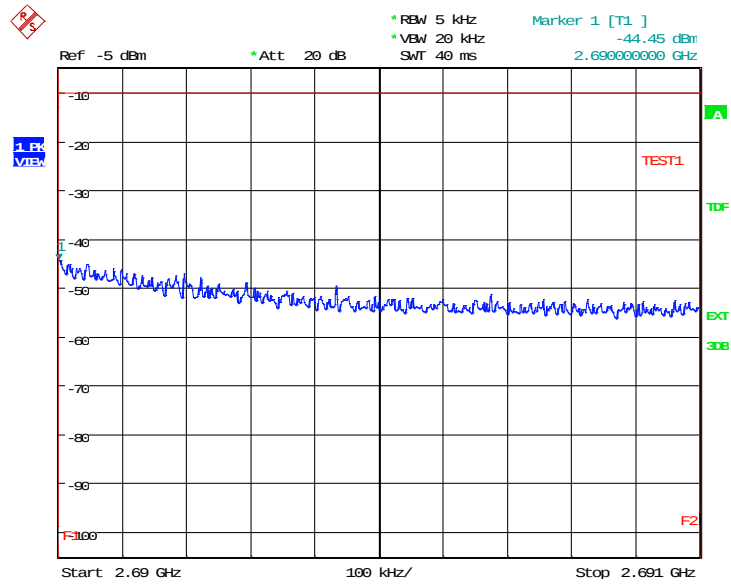
Date: 18.JAN.2020 15:15:00

OBW: 1RB-high_offset

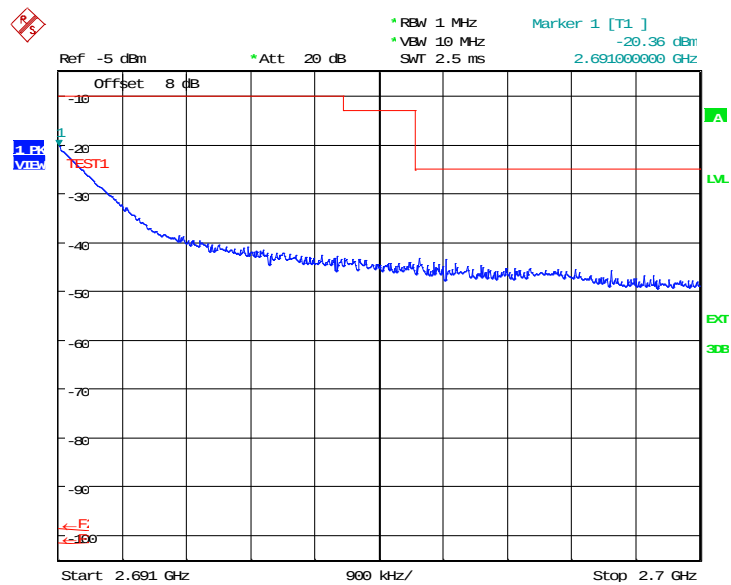


Date: 18.JAN.2020 15:26:19

HIGH BAND EDGE BLOCK-1RB-high_offset

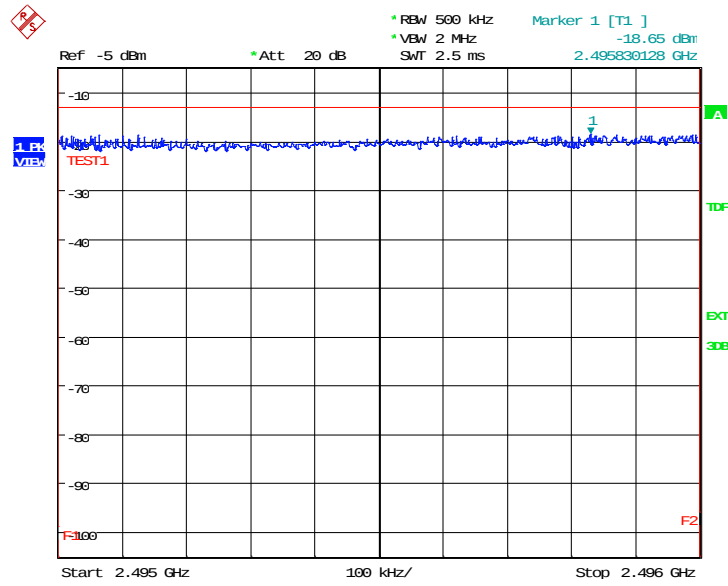


Date: 18.JAN.2020 15:24:38

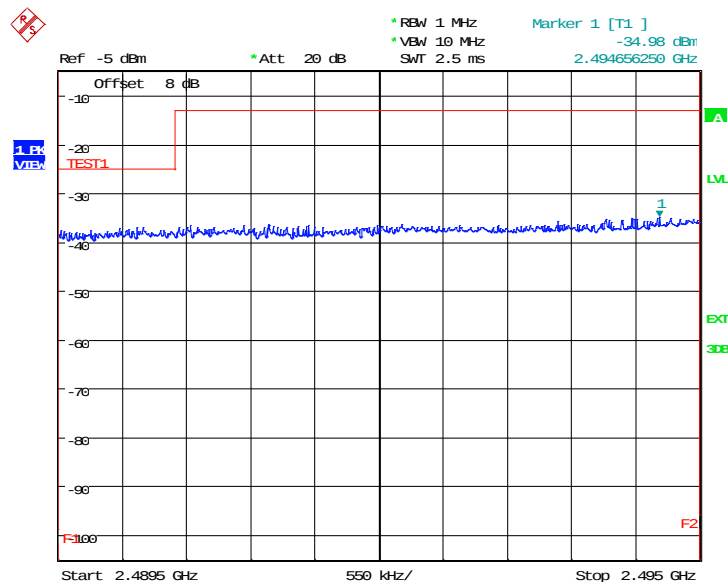


Date: 18.JAN.2020 15:22:09

LOW BAND EDGE BLOCK-10MHz-100%RB

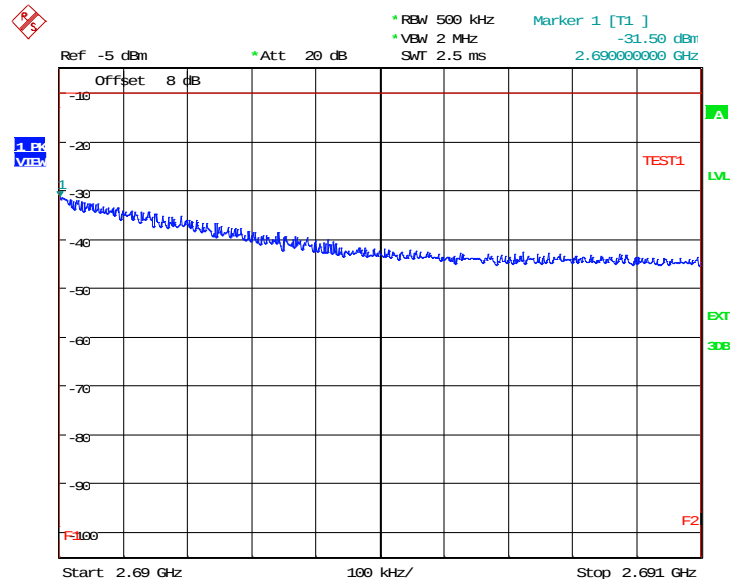


Date: 18.JAN.2020 15:29:16

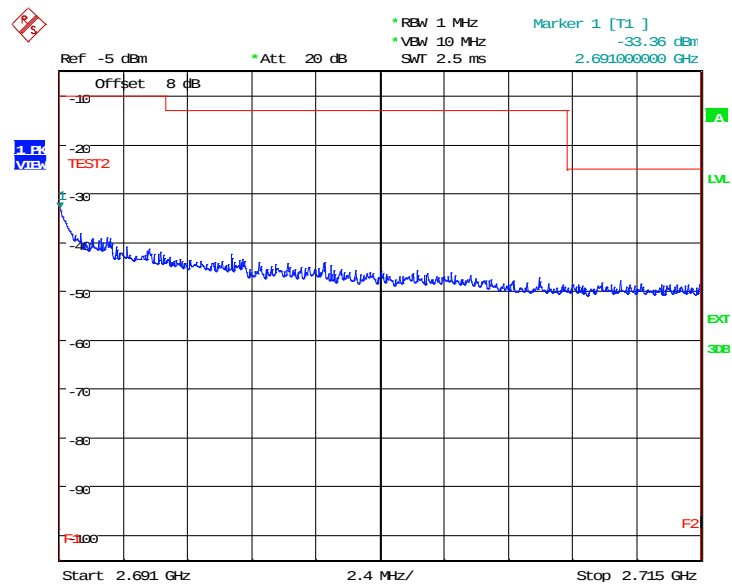


Date: 18.JAN.2020 15:31:54

HIGH BAND EDGE BLOCK-10MHz-100%RB



Date: 18.JAN.2020 15:35:10

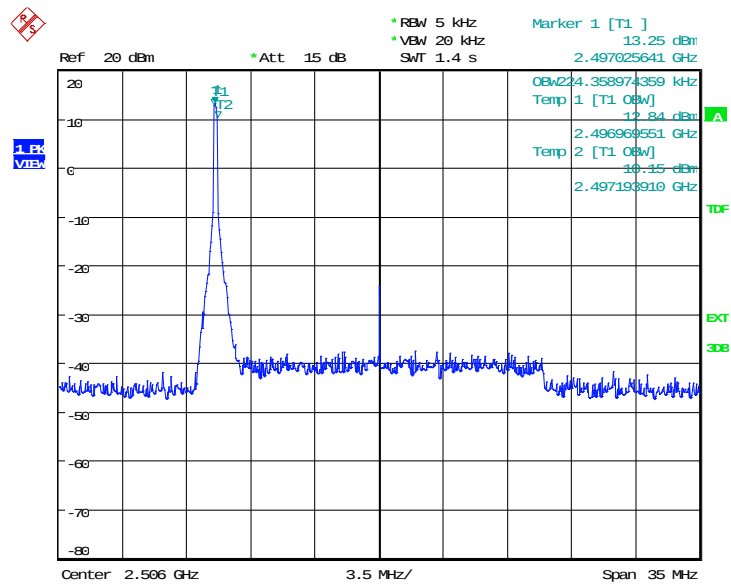


Date: 18.JAN.2020 15:34:01

HPUE

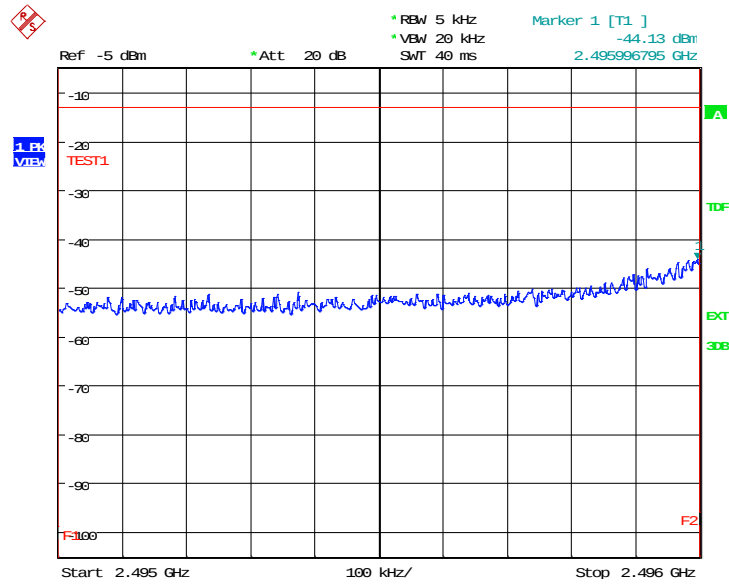
LTE band 41

OBW: 1RB-low_offset

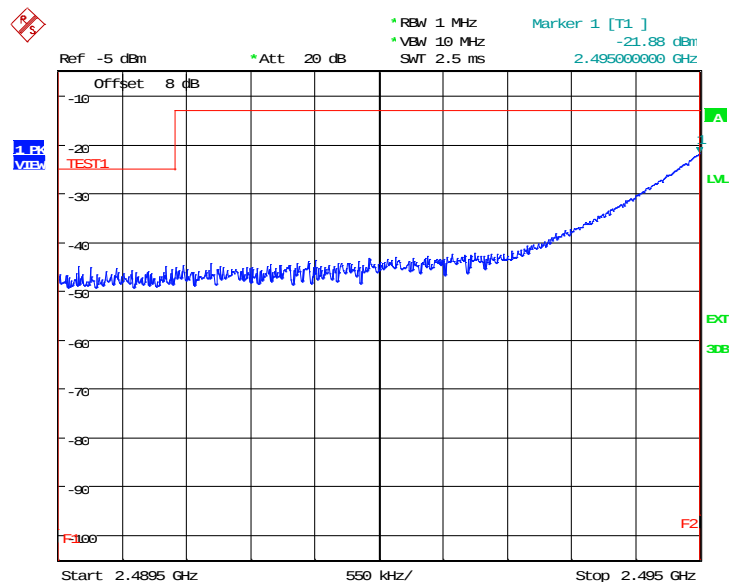


Date: 18. JAN. 2020 15:05:15

LOW BAND EDGE BLOCK-1RB-low_offset

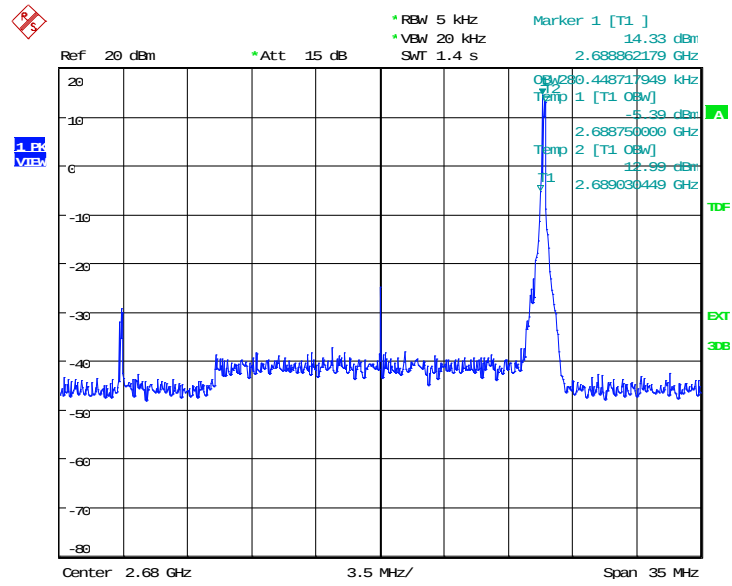


Date: 18.JAN.2020 15:07:06



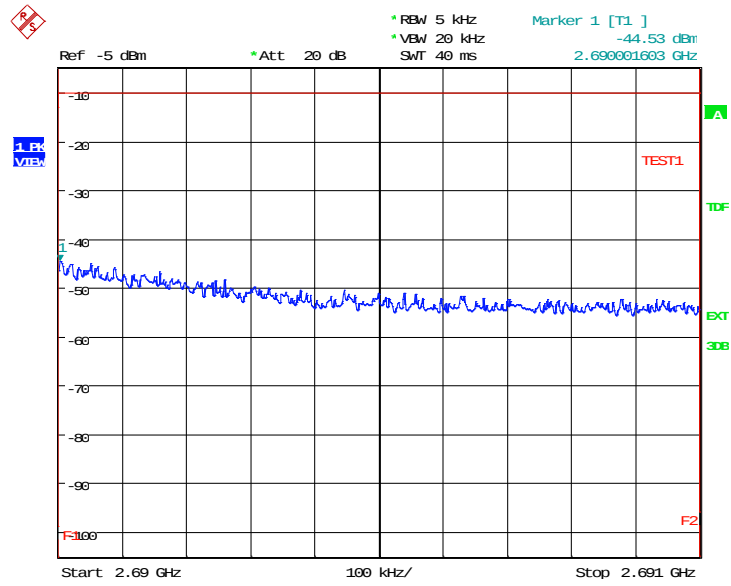
Date: 18.JAN.2020 15:10:57

OBW: 1RB-high_offset

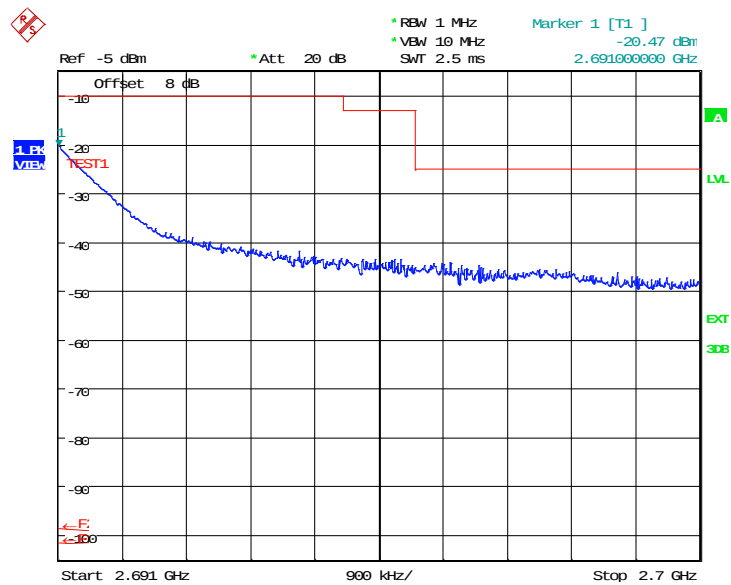


Date: 18. JAN. 2020 15:25:57

HIGH BAND EDGE BLOCK-1RB-high_offset

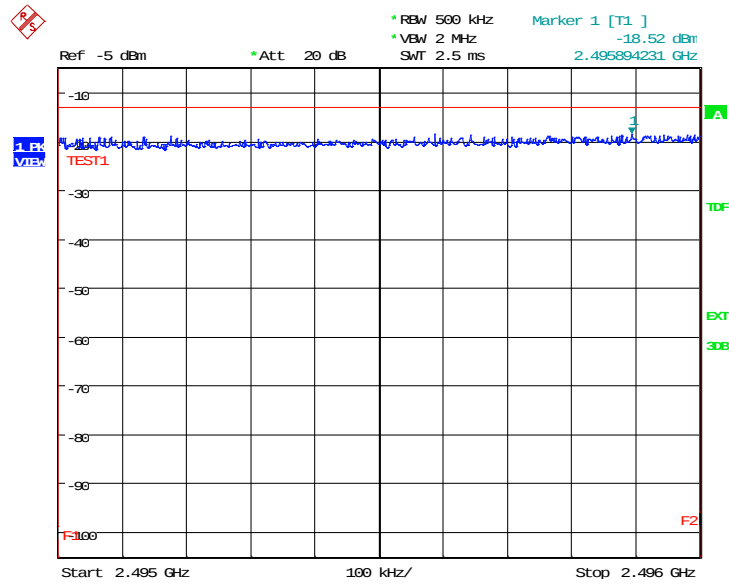


Date: 18.JAN.2020 15:24:18

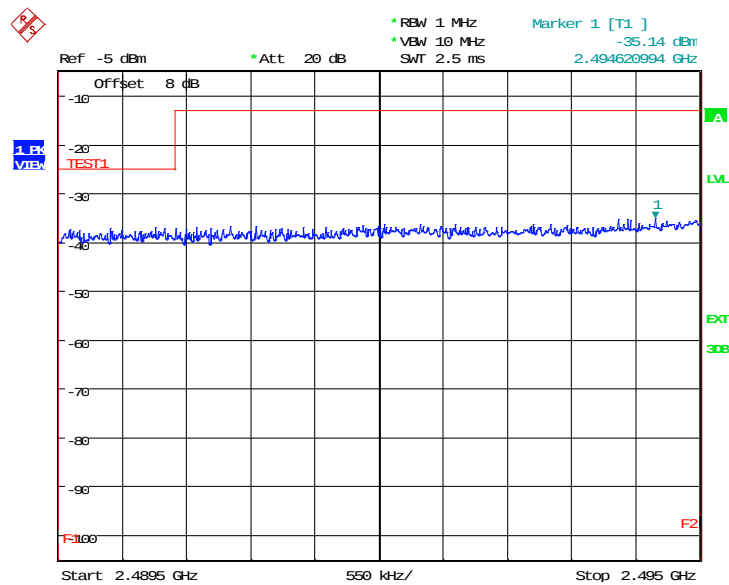


Date: 18.JAN.2020 15:19:31

LOW BAND EDGE BLOCK-10MHz-100%RB

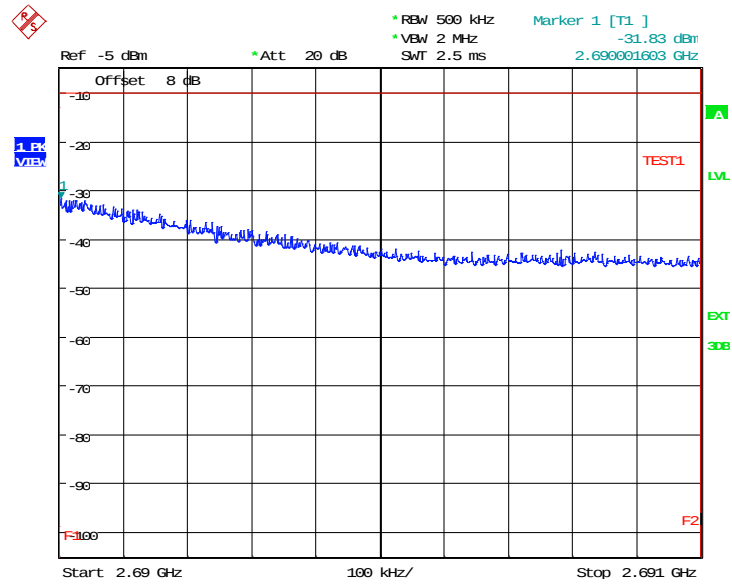


Date: 18.JAN.2020 15:28:57

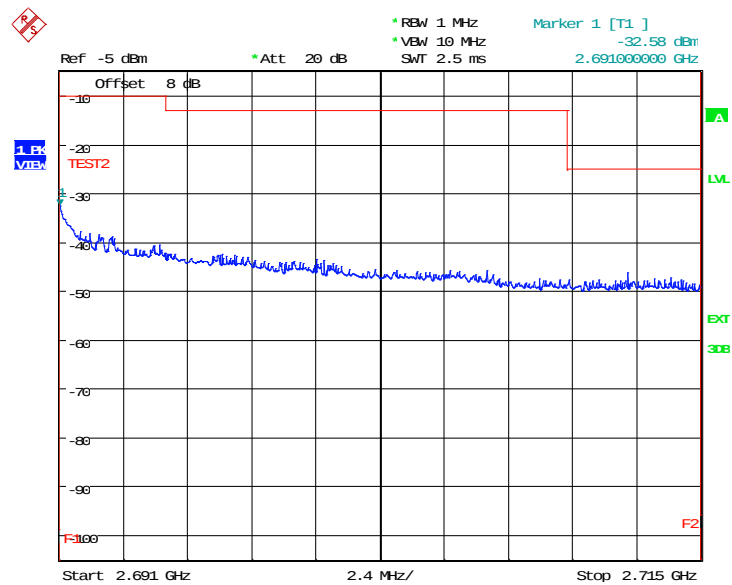


Date: 18.JAN.2020 15:32:11

HIGH BAND EDGE BLOCK-10MHz-100%RB



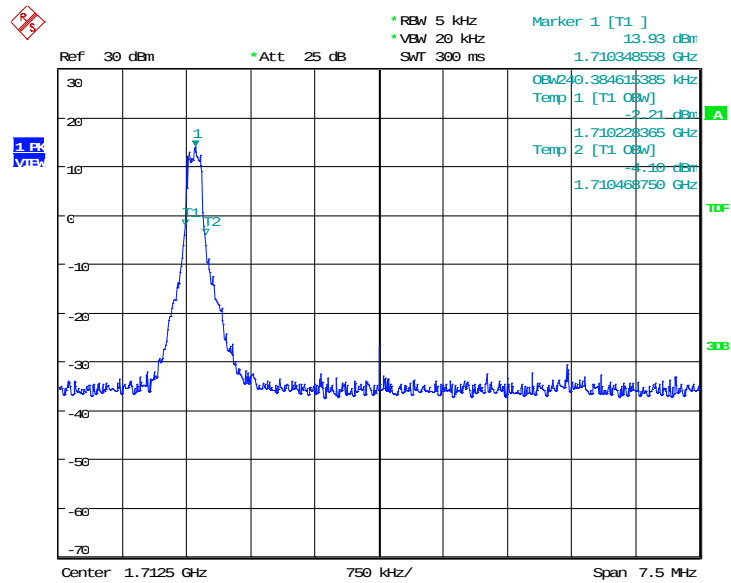
Date: 18.JAN.2020 15:34:52



Date: 18.JAN.2020 15:33:45

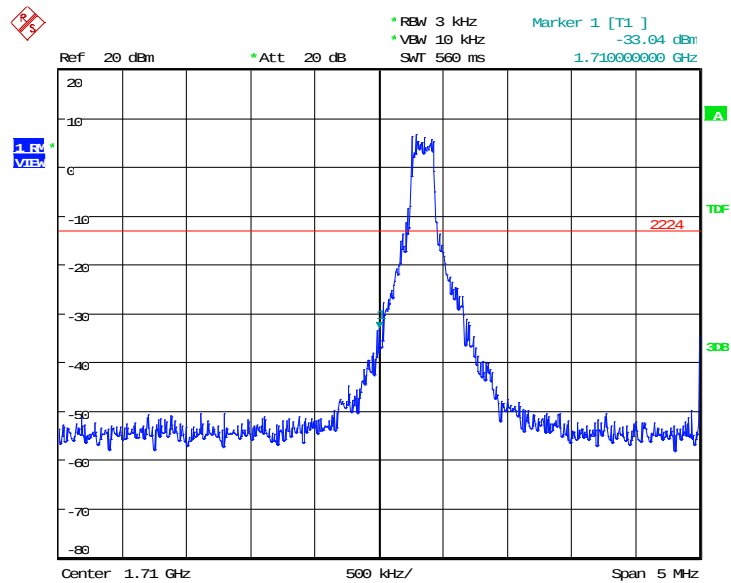
LTE band 66

OBW: 1RB-low_offset



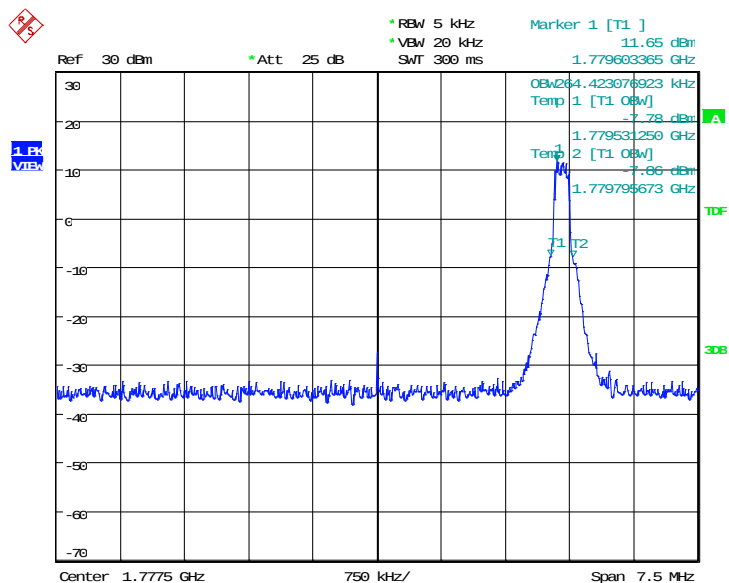
Date: 6.DEC.2019 10:37:45

LOW BAND EDGE BLOCK-1RB-low_offset



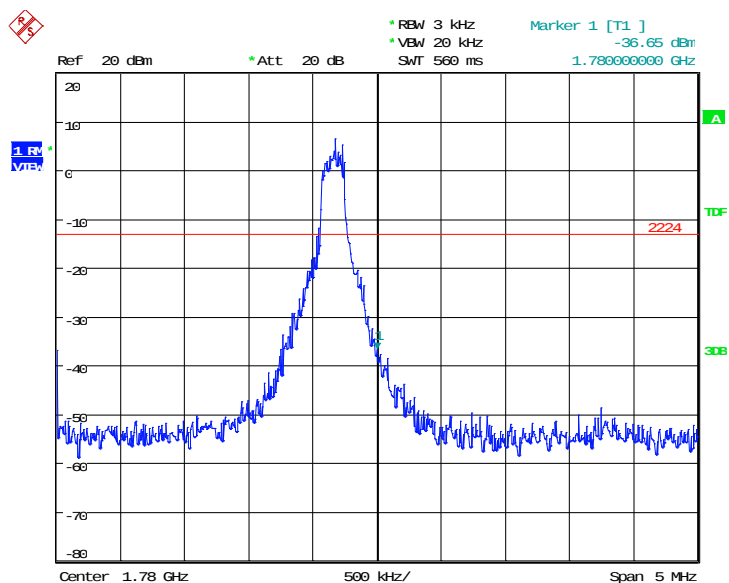
Date: 6.DEC.2019 10:38:30

OBW: 1RB-high_offset



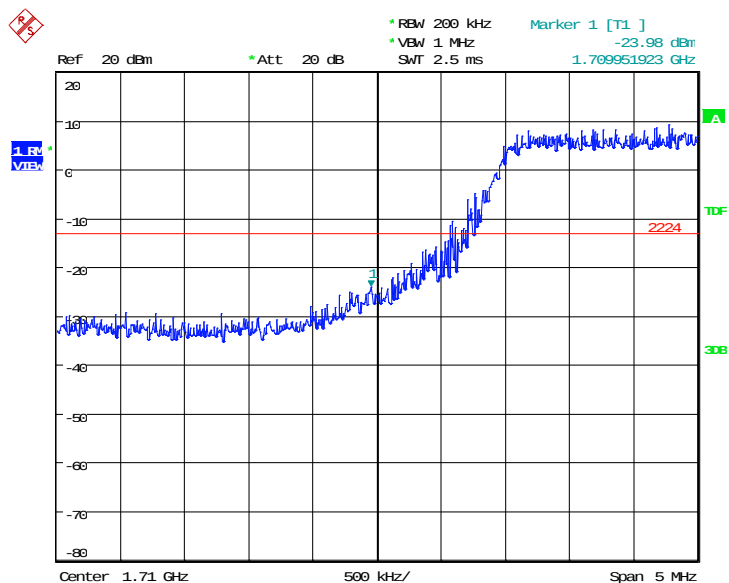
Date: 6.DEC.2019 10:16:20

HIGH BAND EDGE BLOCK-1RB-high_offset



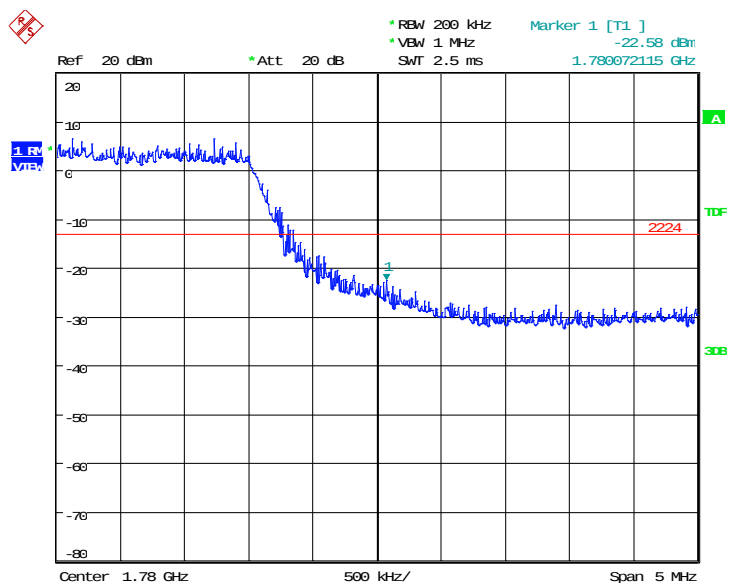
Date: 6.DEC.2019 10:17:04

LOW BAND EDGE BLOCK-20MHz-100%RB



Date: 6.DEC.2019 12:39:34

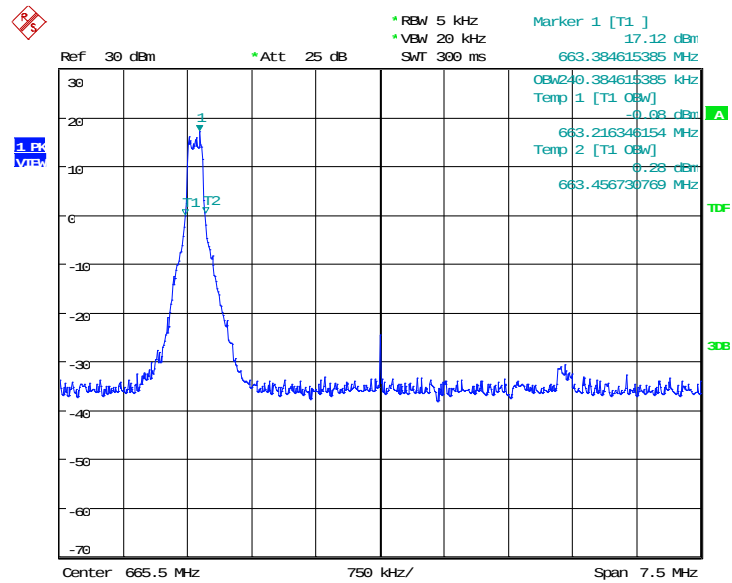
HIGH BAND EDGE BLOCK-20MHz-100%RB



Date: 6.DEC.2019 12:40:21

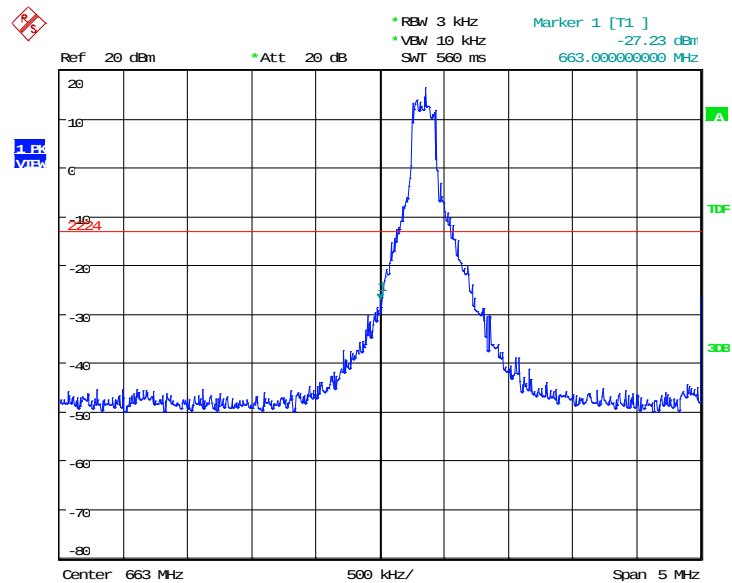
LTE band 71

OBW: 1RB-low_offset



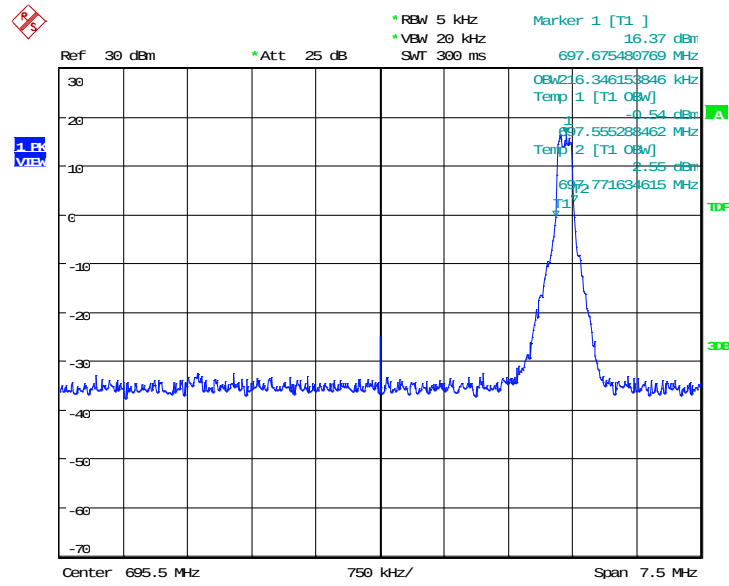
Date: 15.DEC.2019 10:18:19

LOW BAND EDGE BLOCK-1RB-low_offset



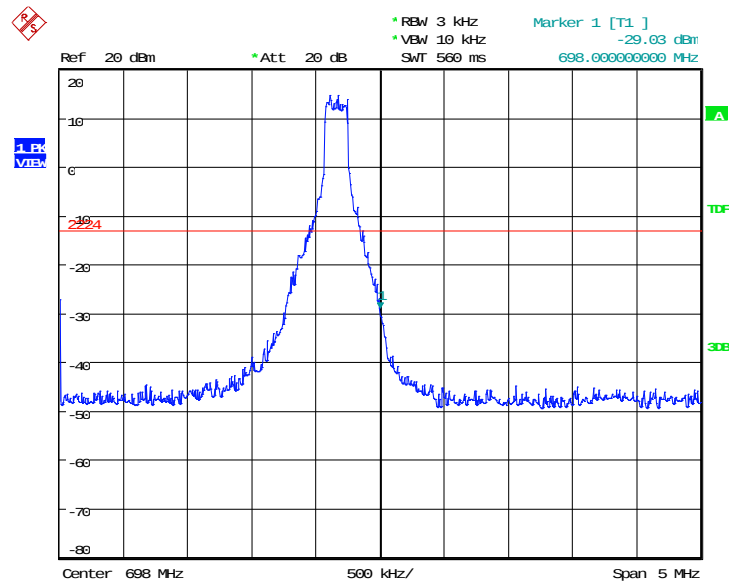
Date: 15.DEC.2019 10:22:00

OBW: 1RB-high_offset



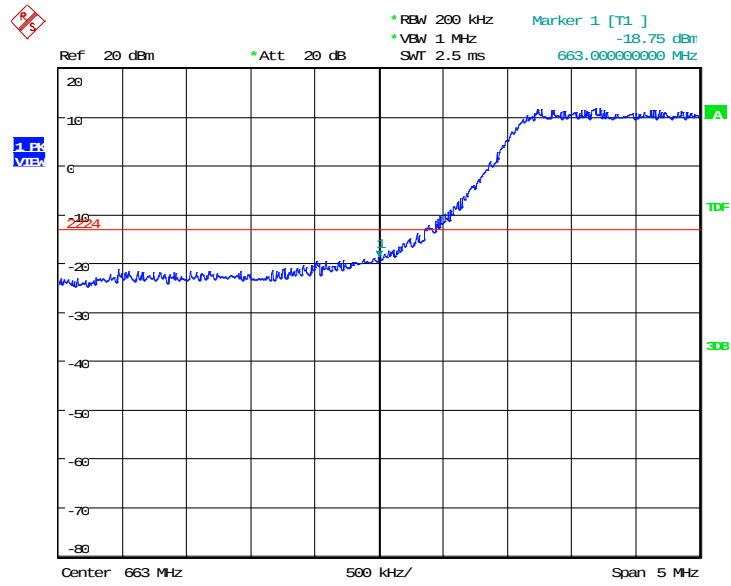
Date: 15.DEC.2019 10:19:44

HIGH BAND EDGE BLOCK-1RB-high_offset



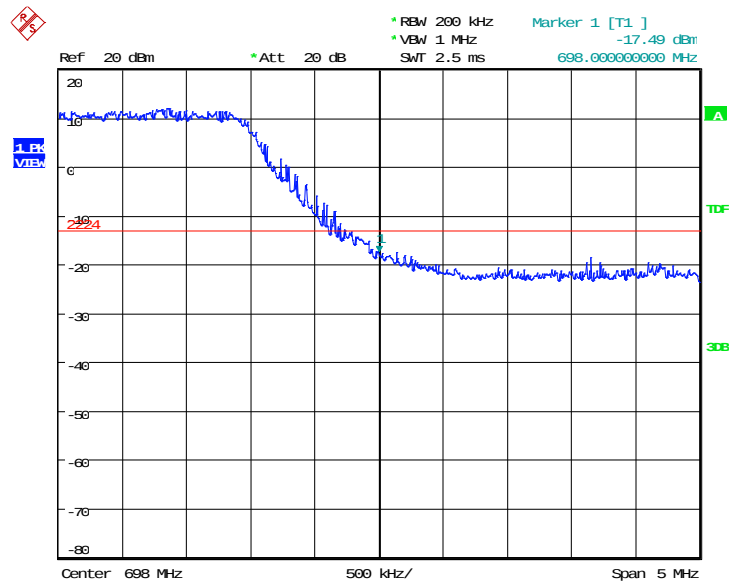
Date: 15.DEC.2019 10:21:16

LOW BAND EDGE BLOCK-20MHz-100%RB



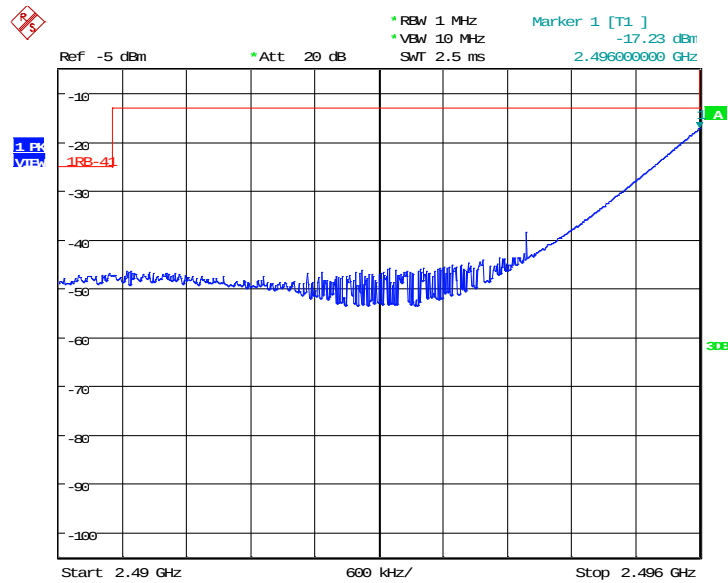
Date: 15.DEC.2019 10:23:14

HIGH BAND EDGE BLOCK-20MHz-100%RB



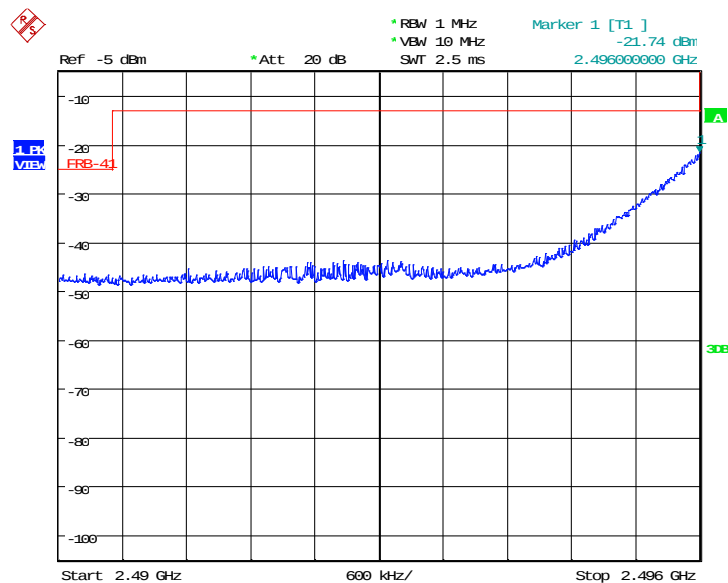
Date: 15.DEC.2019 10:25:18

LTE Band CA_41C LOW BAND EDGE BLOCK-5MHz+20MHz-1RB



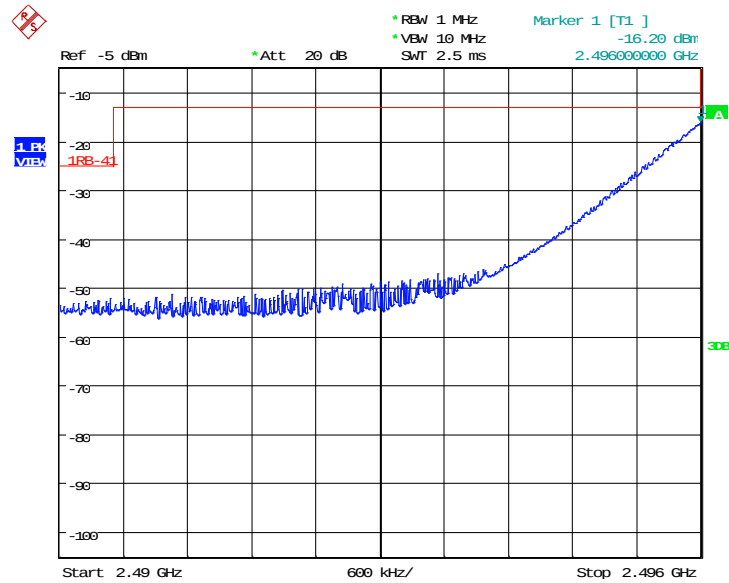
Date: 25.DEC.2019 10:36:19

LOW BAND EDGE BLOCK-5MHz+20MHz-100%RB



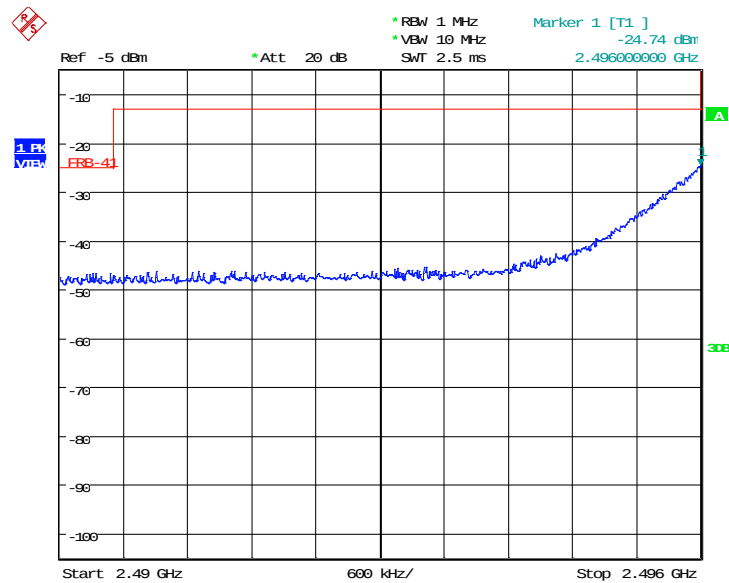
Date: 25.DEC.2019 10:37:30

LOW BAND EDGE BLOCK-10MHz+20MHz-1RB



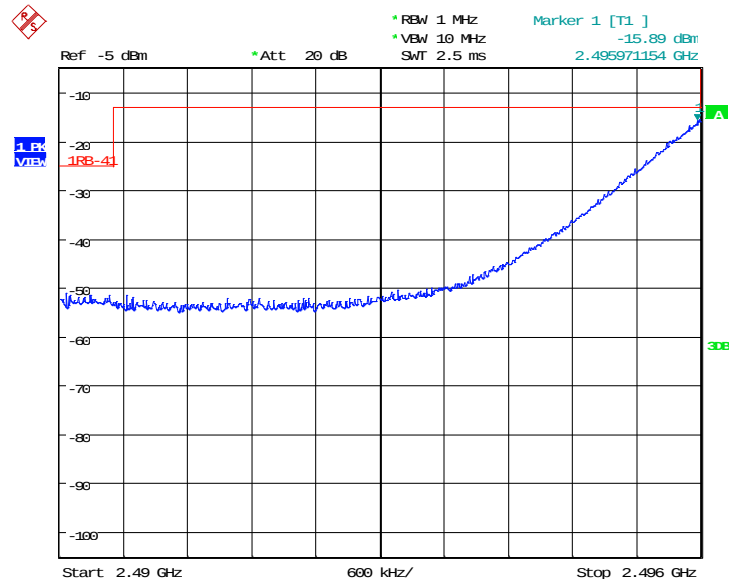
Date: 25.DEC.2019 10:40:15

LOW BAND EDGE BLOCK-10MHz+20MHz-100%RB



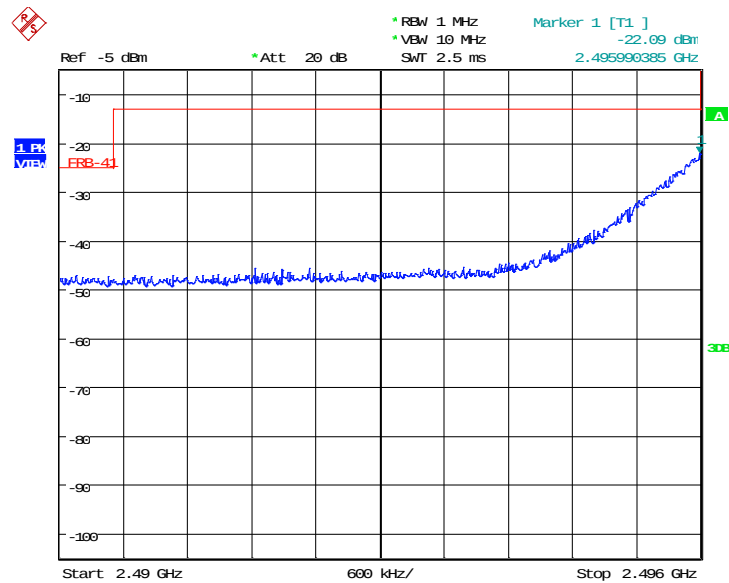
Date: 25.DEC.2019 10:39:30

LOW BAND EDGE BLOCK-15MHz+15MHz-1RB



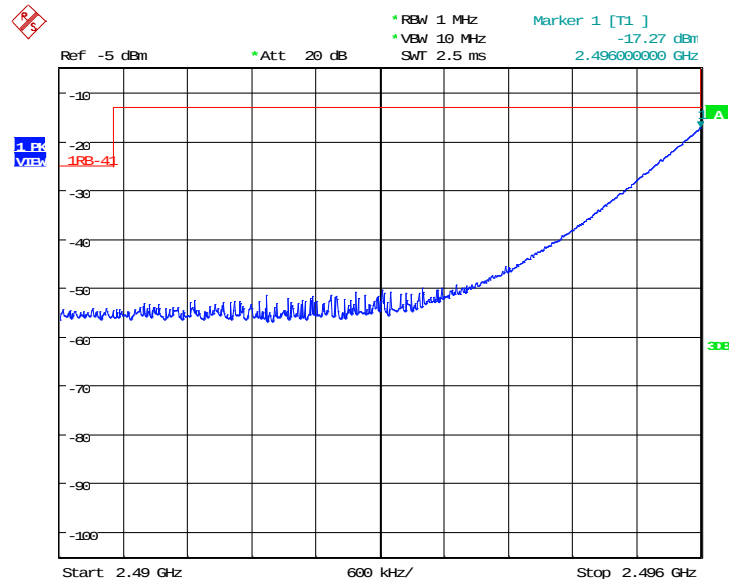
Date: 25.DEC.2019 11:18:59

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



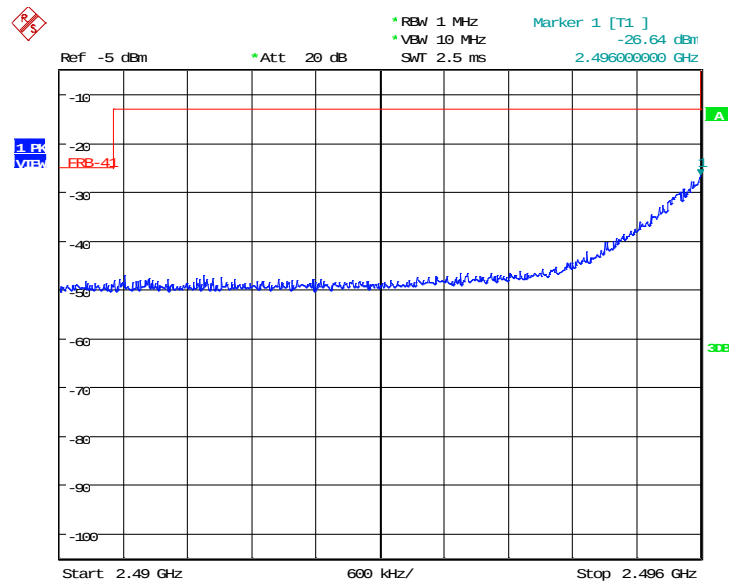
Date: 25.DEC.2019 11:16:23

LOW BAND EDGE BLOCK-15MHz+20MHz-1RB



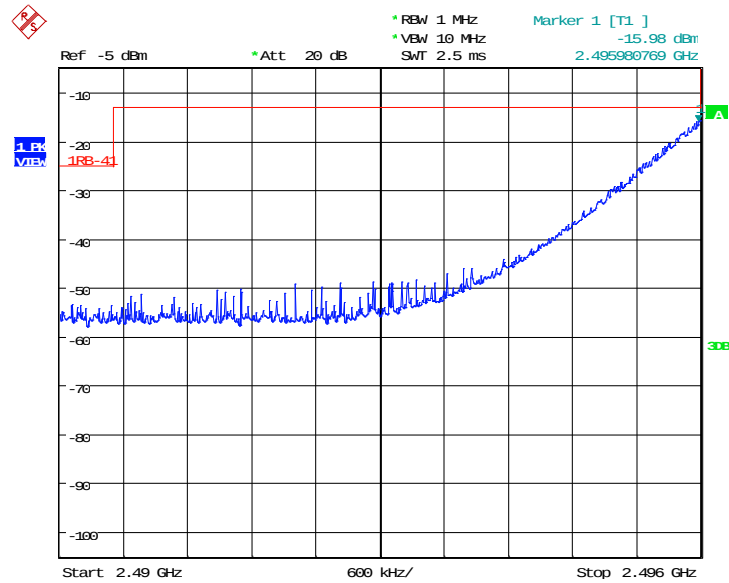
Date: 25.DEC.2019 11:23:59

LOW BAND EDGE BLOCK-15MHz+20MHz-100%RB



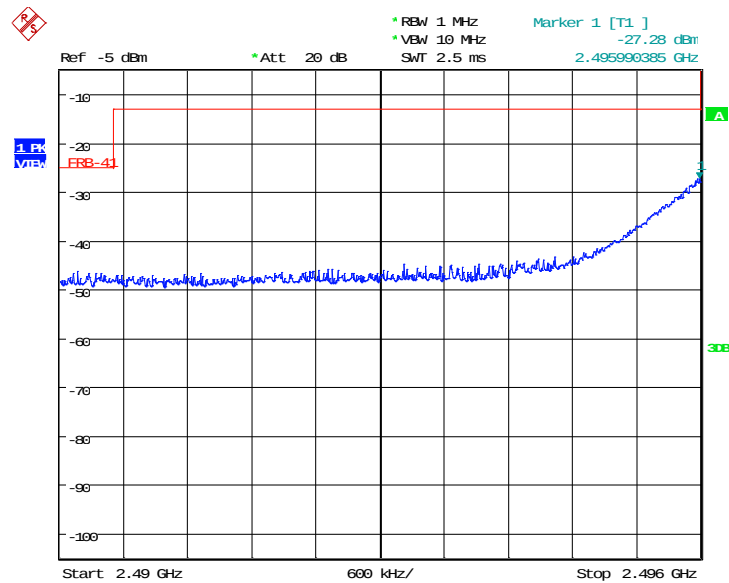
Date: 25.DEC.2019 11:25:23

LOW BAND EDGE BLOCK-20MHz+20MHz-1RB



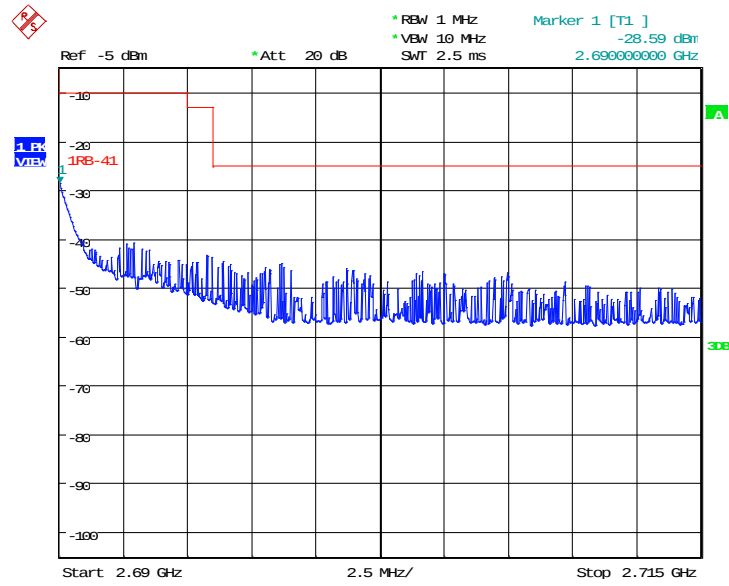
Date: 25.DEC.2019 11:28:29

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



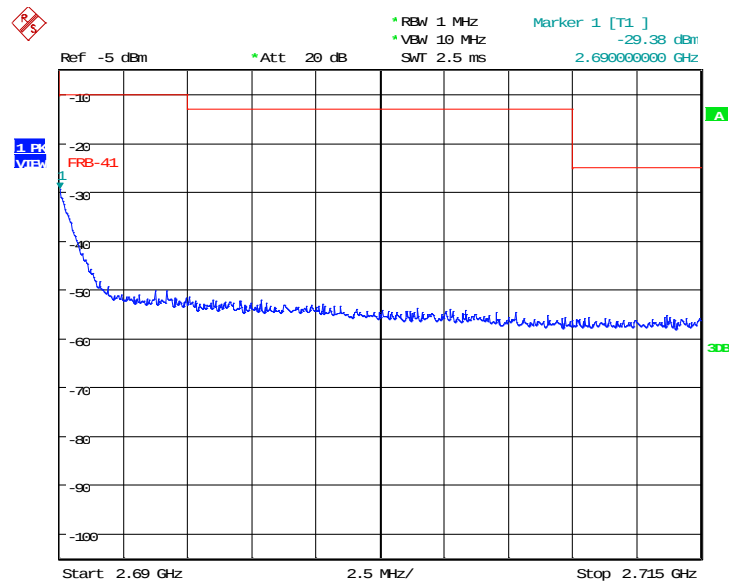
Date: 25.DEC.2019 11:26:39

HIGH BAND EDGE BLOCK-20MHz+5MHz-1RB



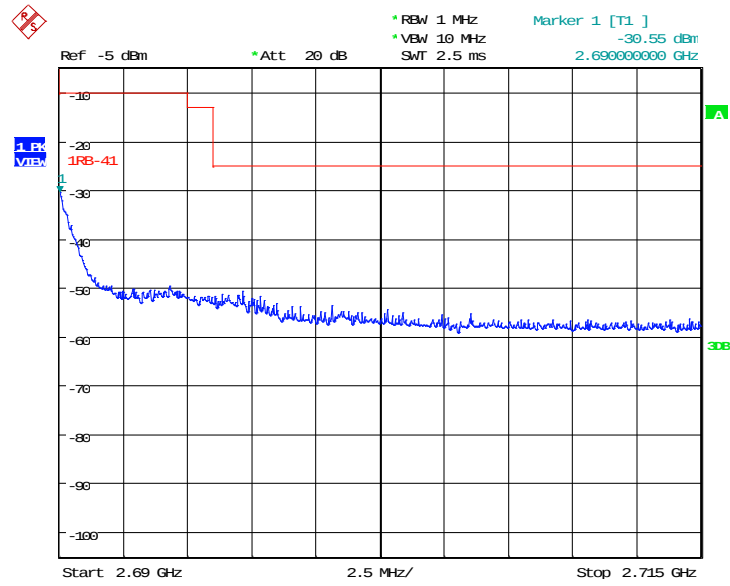
Date: 25.DEC.2019 11:44:11

HIGH BAND EDGE BLOCK-20MHz+5MHz-100%RB



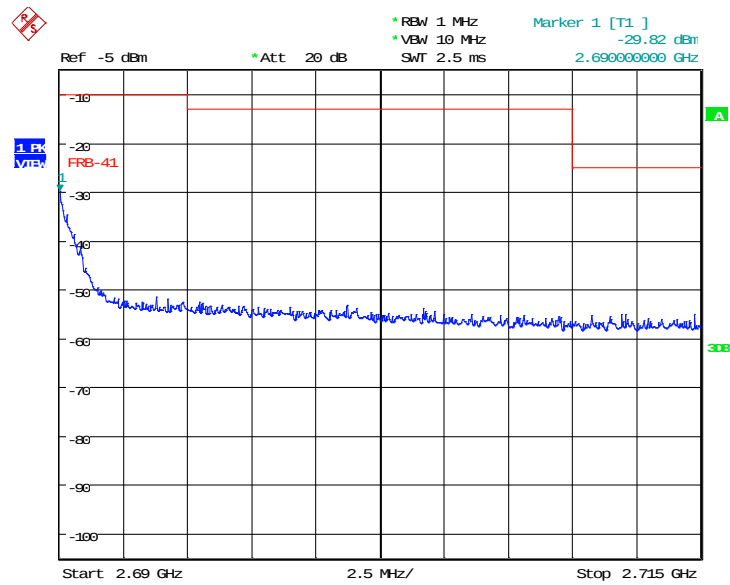
Date: 25.DEC.2019 11:40:55

HIGH BAND EDGE BLOCK-20MHz+10MHz-1RB



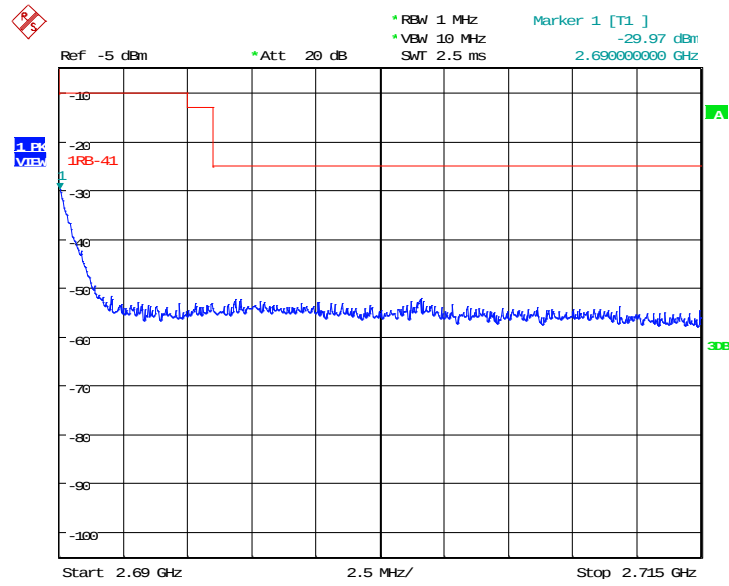
Date: 25.DEC.2019 11:39:04

HIGH BAND EDGE BLOCK-20MHz+10MHz-100%RB



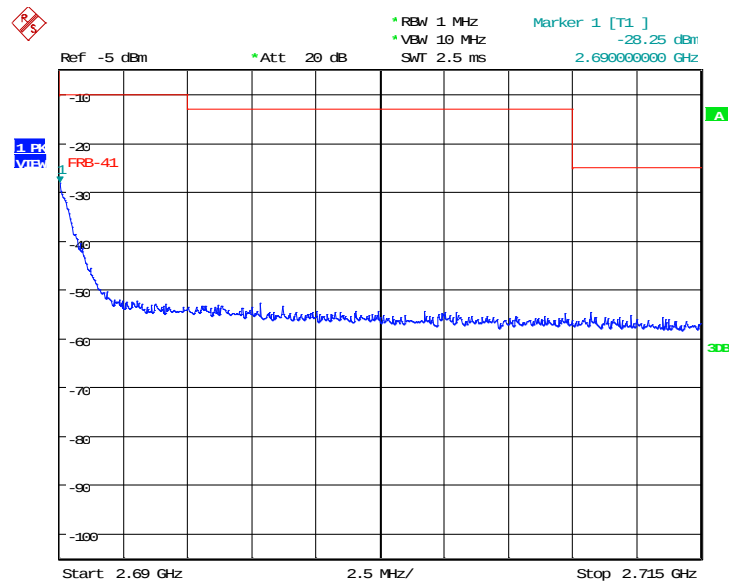
Date: 25.DEC.2019 11:38:23

HIGH BAND EDGE BLOCK-15MHz+15MHz-1RB



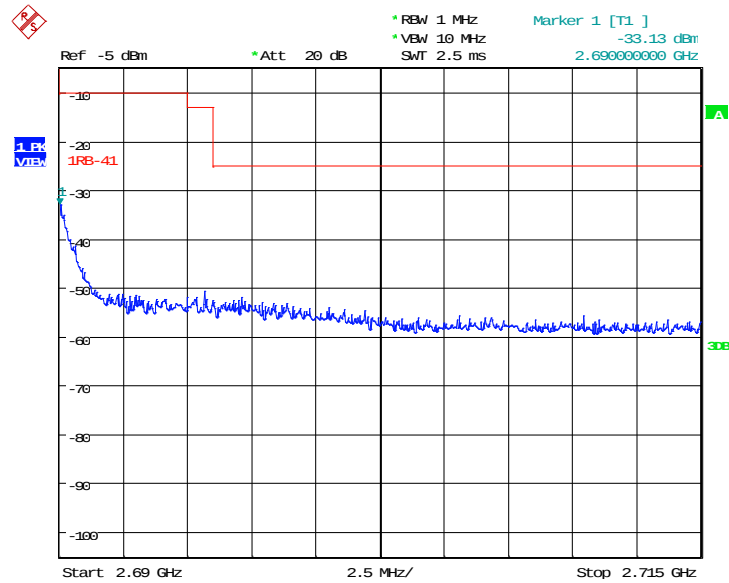
Date: 25.DEC.2019 11:34:49

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



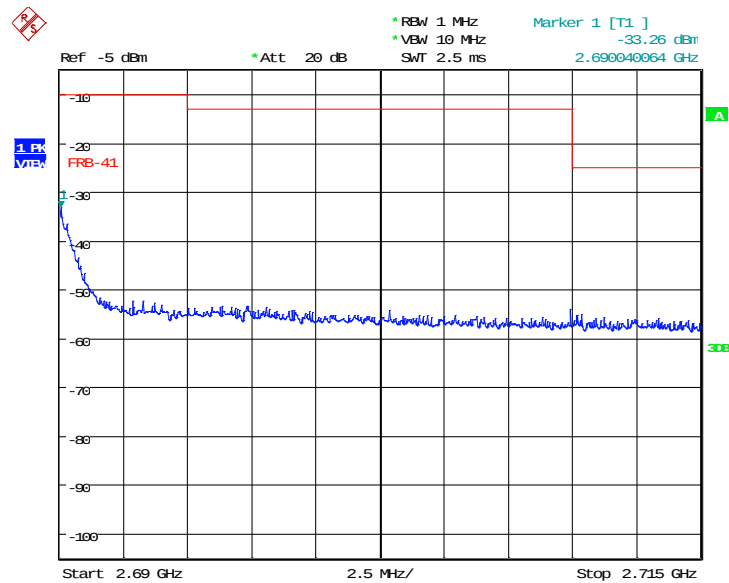
Date: 25.DEC.2019 11:35:54

HIGH BAND EDGE BLOCK-20MHz+15MHz-1RB



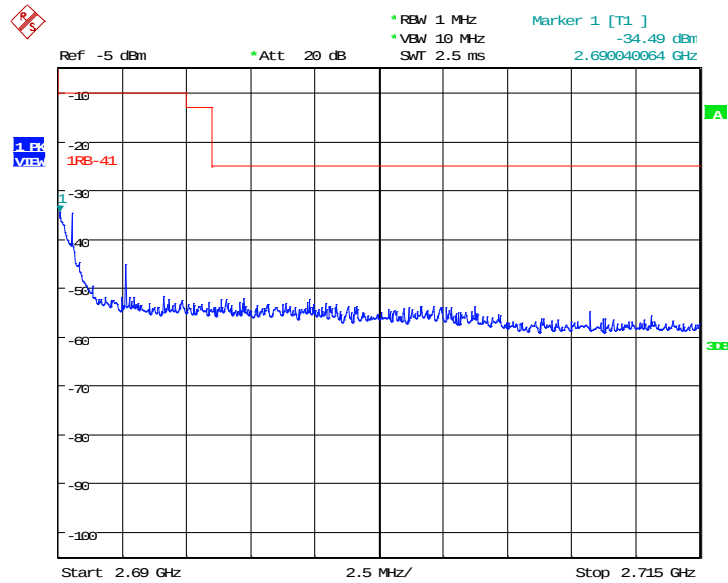
Date: 25.DEC.2019 11:33:36

HIGH BAND EDGE BLOCK-20MHz+15MHz-100%RB



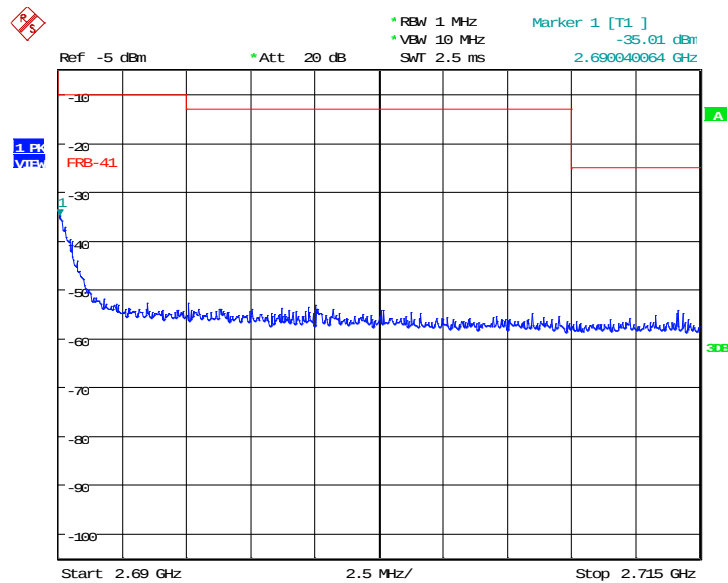
Date: 25.DEC.2019 11:32:31

HIGH BAND EDGE BLOCK-20MHz+20MHz-1RB



Date: 25.DEC.2019 11:30:48

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



Date: 25.DEC.2019 11:31:30

Note: Expanded measurement uncertainty is $U = 0.49\text{dB}(100\text{KHz}-2\text{GHz})/1.21\text{dB}(2\text{GHz}-26.5\text{GHz})$, $k = 1.96$

A.7 CONDUCTED SPURIOUS EMISSION

Reference

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

A.7.1 Measurement Method

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

1. Determine frequency range for measurements: From CFR 2.1051 the spectrum should be investigated from the lowest radio frequency generated in the equipment up to at least the 10th harmonic of the carrier frequency. For the mobile station equipment tested, this equates to a frequency range of 13 MHz to 9 GHz, data taken from 10 MHz to 25 GHz.
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.

The specification that emissions shall be attenuated below the transmitter power (P) by at least $43 + 10 \log(P)$ dB, translates in the relevant power range (1 to 0.001 W) to -13 dBm. At 1 W the specified minimum attenuation becomes 43 dB and relative to a 30 dBm (1 W) carrier becomes a limit of -13 dBm. At 0.001 W (0 dBm) the minimum attenuation is 13 dB, which again yields a limit of -13 dBm. In this way a translation of the specification from relative to absolute terms is carried out.

Part 27.53(m)(4) 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(a) states for mobile and portable stations operating in the 2305–2315 MHz and 2350–2360 MHz bands: By a factor of not less than: $43 + 10 \log(P)$ dB on all frequencies between 2305 and 2320 MHz and on all frequencies between 2345 and 2360 MHz that are outside the licensed band(s) of operation, not less than $55 + 10 \log(P)$ dB on all frequencies between 2320 and 2324 MHz and on all frequencies between 2341 and 2345 MHz, not less than $61 + 10 \log(P)$ dB on all frequencies between 2324 and 2328 MHz and on all frequencies between 2337 and 2341 MHz, and not less than $67 + 10 \log(P)$ dB on all frequencies between 2328 and 2337 MHz;

By a factor of not less than $43 + 10 \log (P)$ dB on all frequencies between 2300 and 2305 MHz, $55 + 10 \log (P)$ dB on all frequencies between 2296 and 2300MHz, $61 + 10 \log (P)$ dB on all frequencies between 2292 and 2296 MHz, $67 + 10 \log (P)$ dB on all frequencies between 2288 and 2292 MHz, and $70 + 10 \log (P)$ dB below 2288 MHz; By a factor of not less than $43 + 10 \log (P)$ dB on all frequencies between 2360 and 2365 MHz, and not less than $70 + 10 \log (P)$ dB above 2365 MHz.

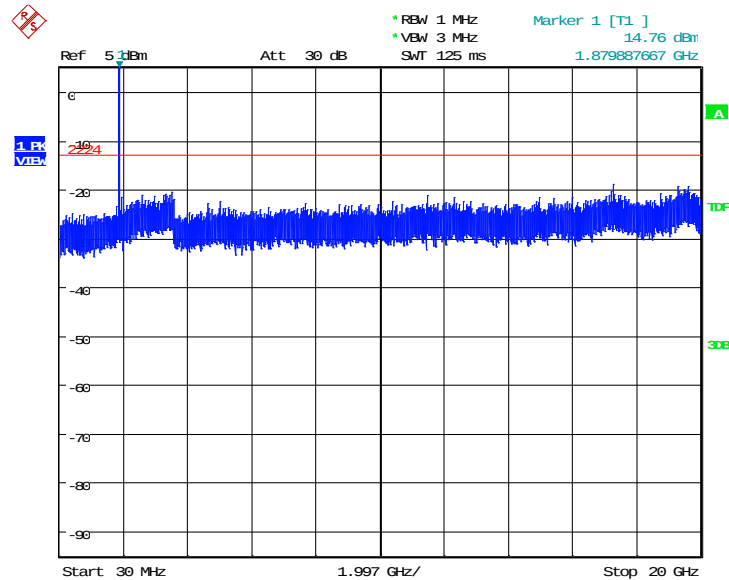
A. 7.3 Measurement result

Only worst case result is given below

LTE band 2 : 30MHz – 20GHz

Spurious emission limit –13dBm.

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

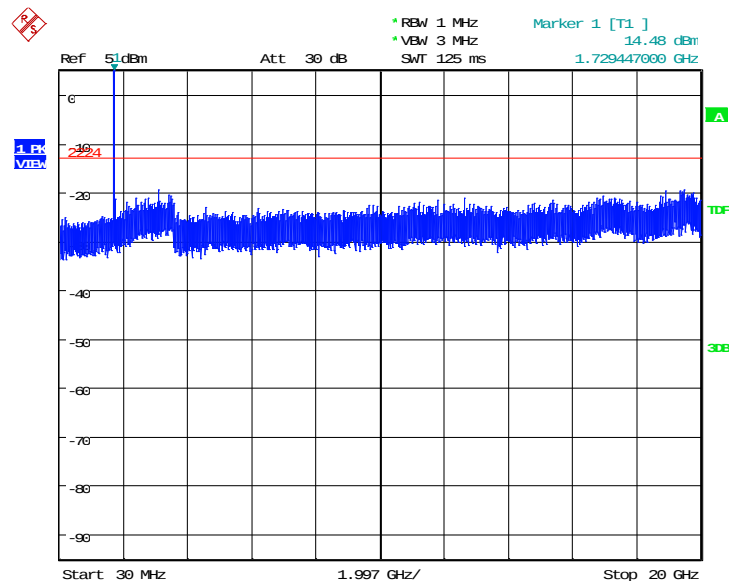


Date: 4.DEC.2019 07:23:19

LTE band 4 : 30MHz – 20GHz

Spurious emission limit –13dBm.

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

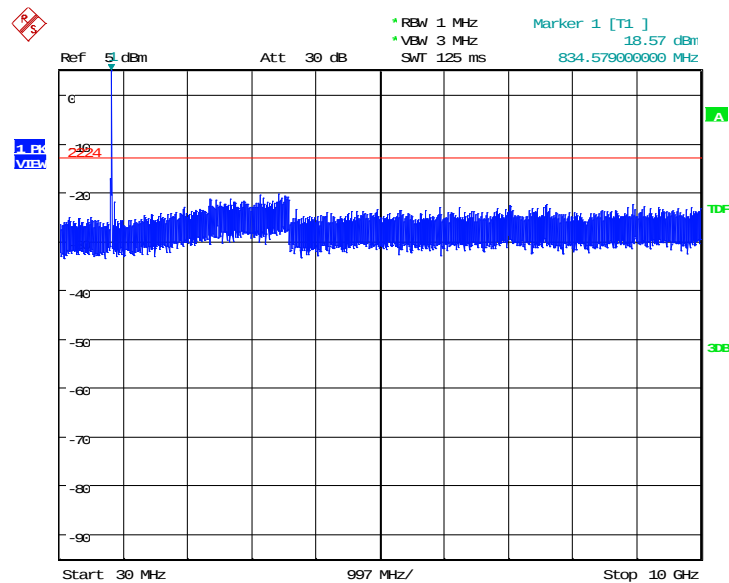


Date: 5.DEC.2019 12:49:51

LTE band 5 : 30MHz – 10GHz

Spurious emission limit –13dBm.

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

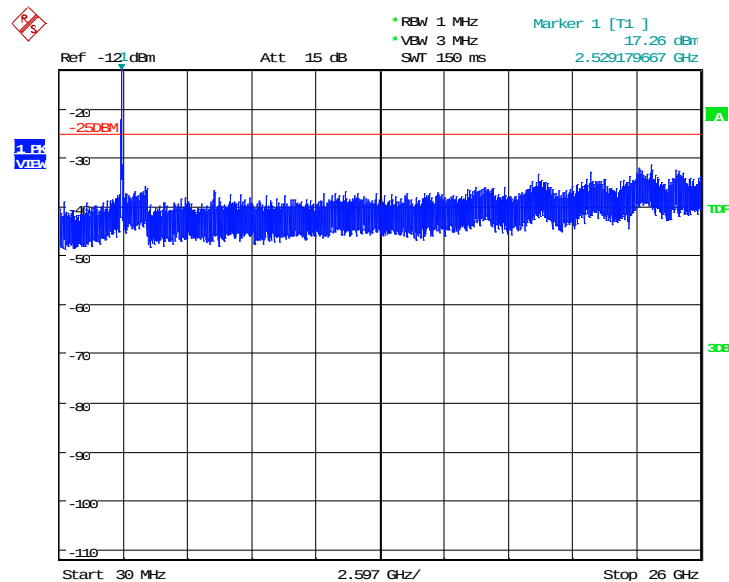


Date: 4.DEC.2019 06:56:51

LTE band 7 20MHz QPSK: 30MHz – 26GHz

Spurious emission limit –25dBm.

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

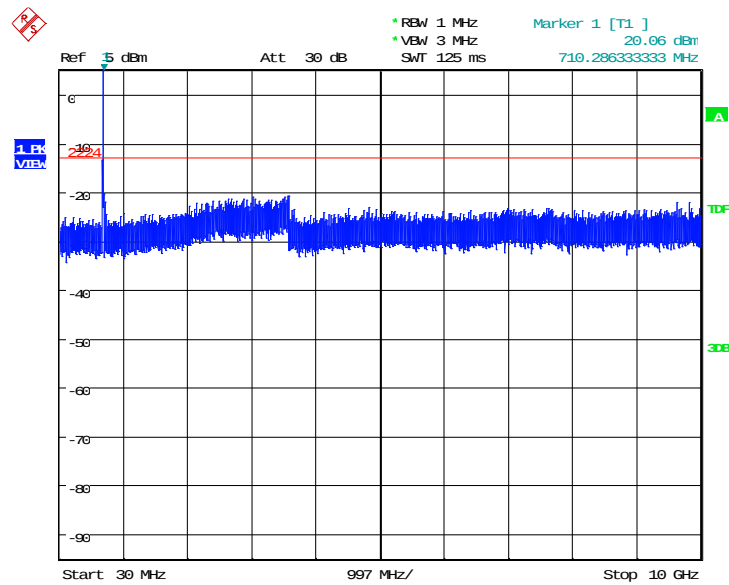


Date: 4.DEC.2019 06:30:42

LTE band 12: 30MHz – 10GHz

Spurious emission limit –13dBm.

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

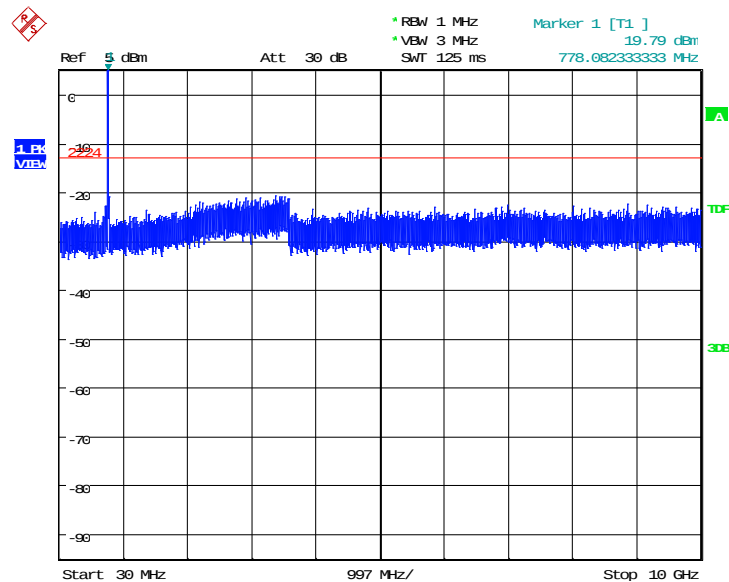


Date: 4.DEC.2019 11:32:31

LTE band 13: 30MHz – 10GHz

Spurious emission limit –13dBm.

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

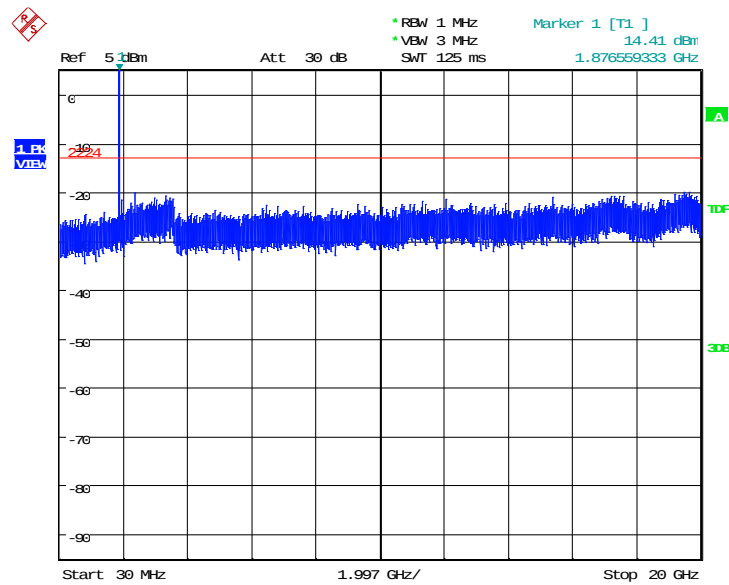


Date: 4.DEC.2019 06:39:27

LTE band 25: 30MHz – 20GHz

Spurious emission limit –13dBm.

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

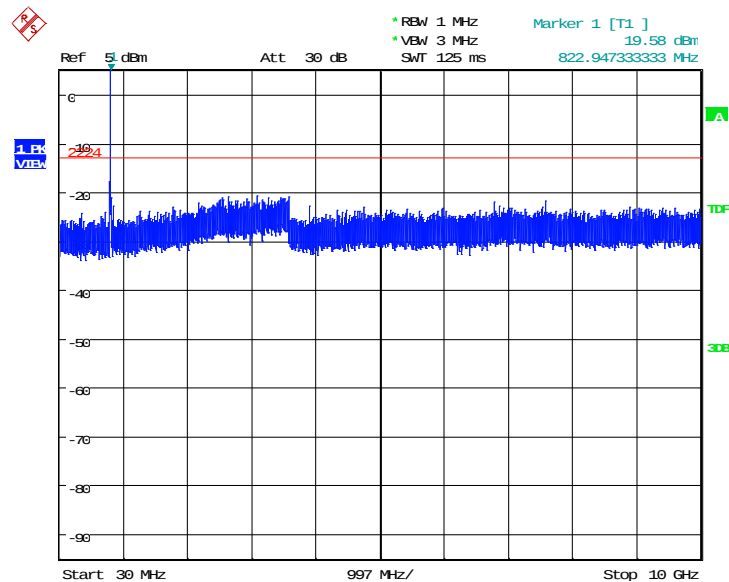


Date: 5.DEC.2019 12:53:21

LTE band 26(814MHz-824MHz): 30MHz – 10GHz

Spurious emission limit –13dBm.

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

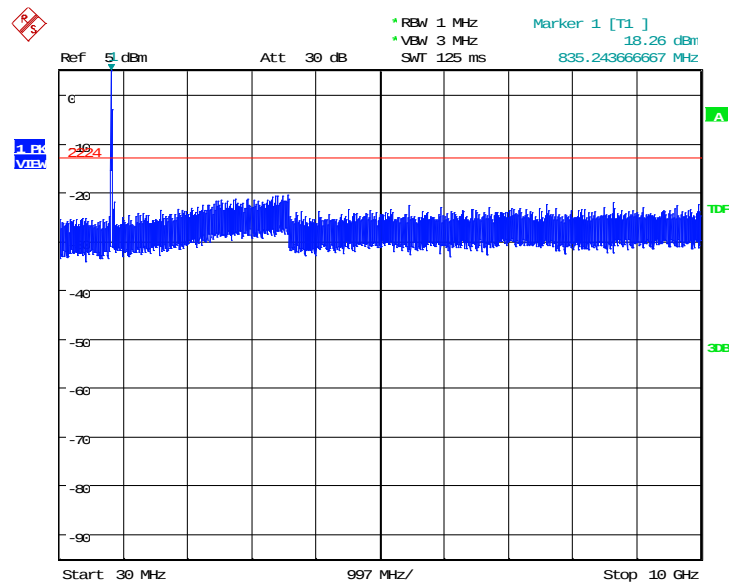


Date: 5.DEC.2019 12:44:49

LTE band 26(824MHz-849MHz): 30MHz – 10GHz

Spurious emission limit –13dBm.

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



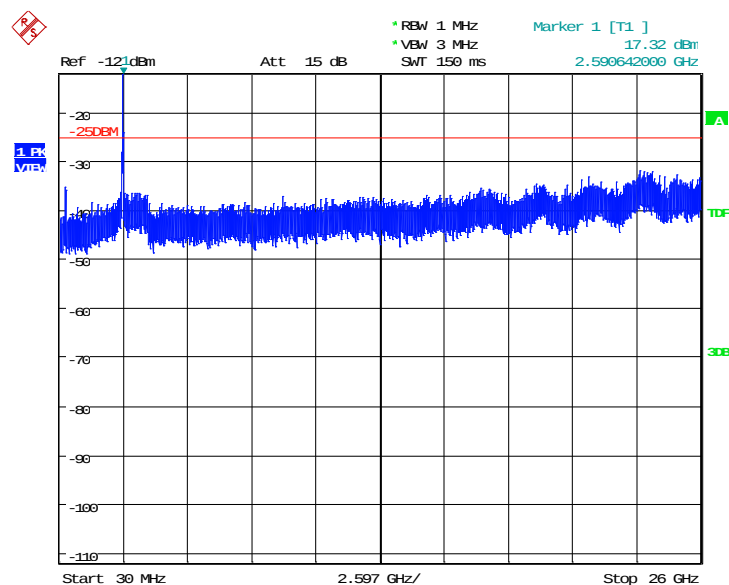
Date: 4.DEC.2019 13:59:19

Normal Power

LTE band 41: 30MHz – 26GHz

Spurious emission limit –25dBm.

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



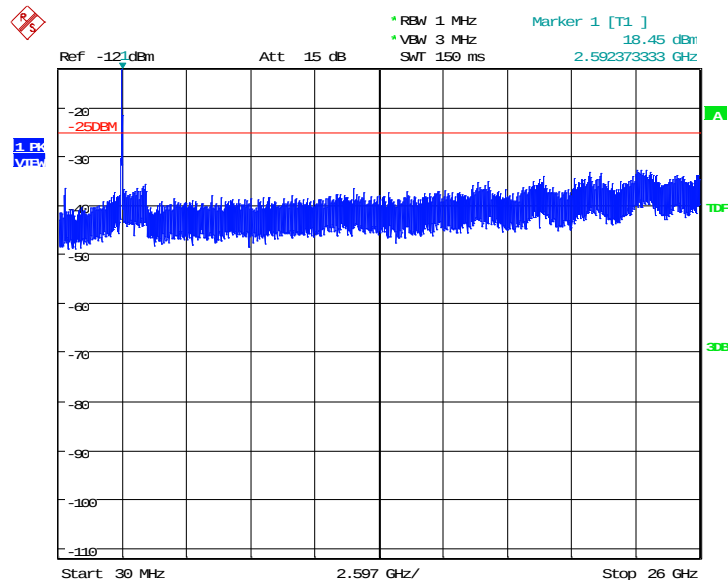
Date: 10.DEC.2019 18:57:38

HPUE

LTE band 41: 30MHz – 26GHz

Spurious emission limit –25dBm.

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

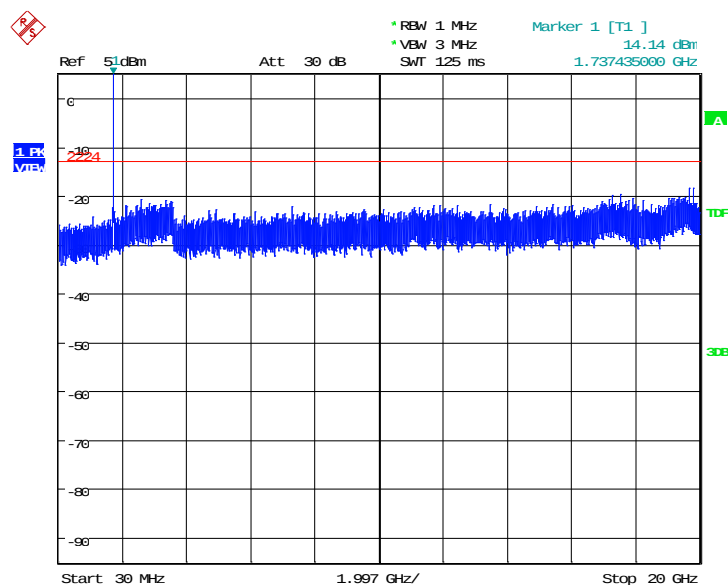


Date: 4.DEC.2019 13:04:40

LTE band 66: 30MHz – 20GHz

Spurious emission limit –13dBm.

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

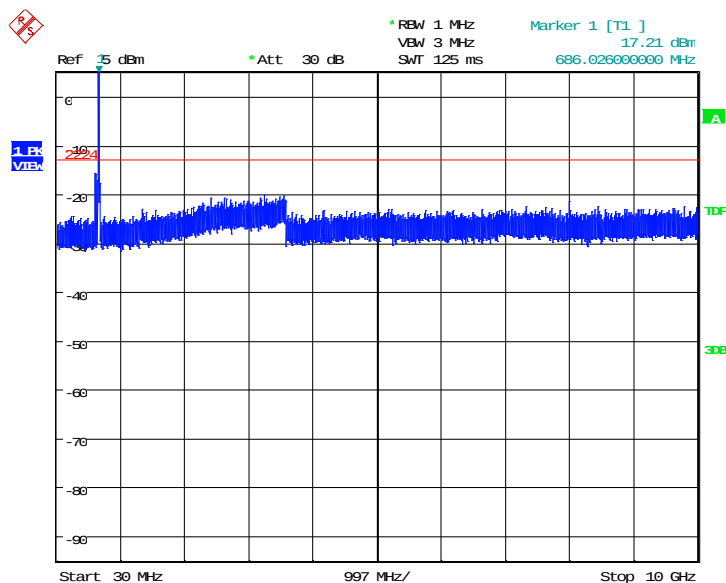


Date: 5.DEC.2019 11:44:48

LTE band 71: 30MHz – 10GHz

Spurious emission limit –13dBm.

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

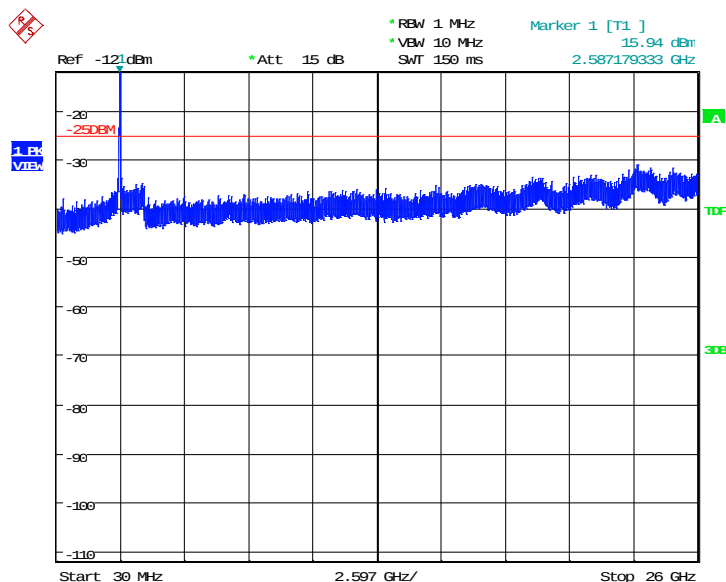


Date: 15.DEC.2019 10:37:21

LTE Band CA_41C: 30MHz – 26GHz

Spurious emission limit –25dBm.

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



Date: 25.DEC.2019 11:54:01

Note: Expanded measurement uncertainty is $U = 0.49\text{dB}(100\text{KHz}-2\text{GHz})/1.21\text{dB}(2\text{GHz}-26.5\text{GHz})$, $k = 1.96$

A.8 PEAK-TO-AVERAGE POWER RATIO

Reference

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

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

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

A.8.1 Measurement limit

not exceed 13 dB

A.8.2 Measurement results

Only worst case result is given below

LTE band 2

Frequency(MHz)	Bandwidth(MHz)	PAPR(dB)		
		QPSK	16QAM	64QAM
1880.0	20	7.40	7.79	7.69

LTE band 4

Frequency(MHz)	Bandwidth(MHz)	PAPR(dB)		
		QPSK	16QAM	64QAM
1732.5	20	7.34	7.53	7.72

LTE band 5

Frequency(MHz)	Bandwidth(MHz)	PAPR(dB)		
		QPSK	16QAM	64QAM
836.5	10	5.51	6.51	6.51

LTE band 7

Frequency(MHz)	Bandwidth(MHz)	PAPR(dB)		
		QPSK	16QAM	64QAM
2510.0	20	7.21	7.76	7.63

LTE band 12

Frequency(MHz)	Bandwidth(MHz)	PAPR(dB)		
		QPSK	16QAM	64QAM
707.5	10	5.51	6.41	6.28

LTE band 13

Frequency(MHz)	Bandwidth(MHz)	PAPR(dB)		
		QPSK	16QAM	64QAM
782.0	10	5.54	6.41	6.47

LTE band 25

Frequency(MHz)	Bandwidth(MHz)	PAPR(dB)		
		QPSK	16QAM	64QAM
1882.5	20	7.28	7.72	7.56

LTE band 26(814MHz -824MHz)

Frequency(MHz)	Bandwidth(MHz)	PAPR(dB)		
		QPSK	16QAM	64QAM
819.0	15	5.45	6.41	6.38

LTE band 26(824MHz -849MHz)

Frequency(MHz)	Bandwidth(MHz)	PAPR(dB)		
		QPSK	16QAM	64QAM
836.5	15	6.38	6.99	7.15

Normal Power

LTE band 41

Frequency(MHz)	Bandwidth(MHz)	PAPR(dB)		
		QPSK	16QAM	64QAM
2593.0	20	8.33	8.81	8.91

HPUE

LTE band 41

Frequency(MHz)	Bandwidth(MHz)	PAPR(dB)		
		QPSK	16QAM	64QAM
2593.0	20	8.49	8.85	11.15

LTE band 66

Frequency(MHz)	Bandwidth(MHz)	PAPR(dB)		
		QPSK	16QAM	64QAM
1745.0	20	7.37	7.66	7.69

LTE band 71

Frequency(MHz)	Bandwidth(MHz)	PAPR(dB)		
		QPSK	16QAM	64QAM
683.0	20	6.54	7.18	7.28

LTE Band CA_41C

Frequency(MHz)	Bandwidth(MHz)	PAPR(dB)		
		QPSK	16QAM	64QAM
2593.0	20+20	9.33	10.67	11.19

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

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

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