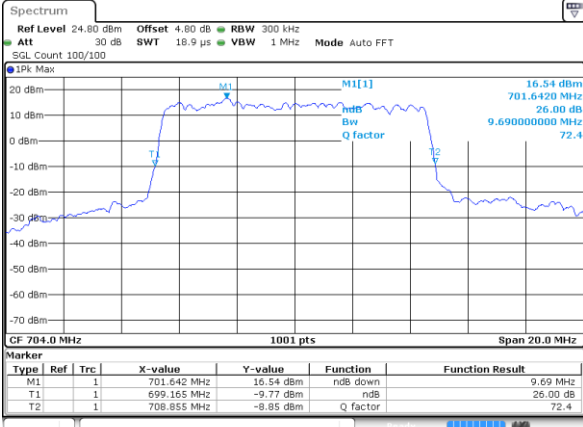




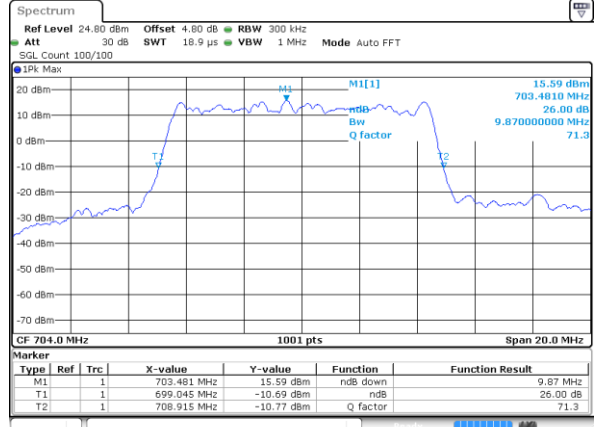
LTE Band 12

Lowest Channel / 10MHz / QPSK



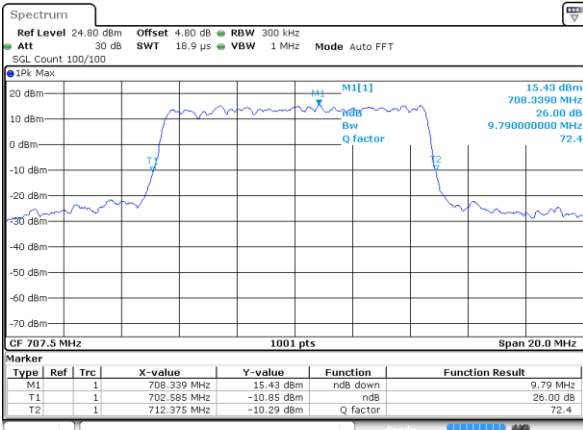
Date: 4 JUN 2020 00:51:21

Lowest Channel / 10MHz / 16QAM



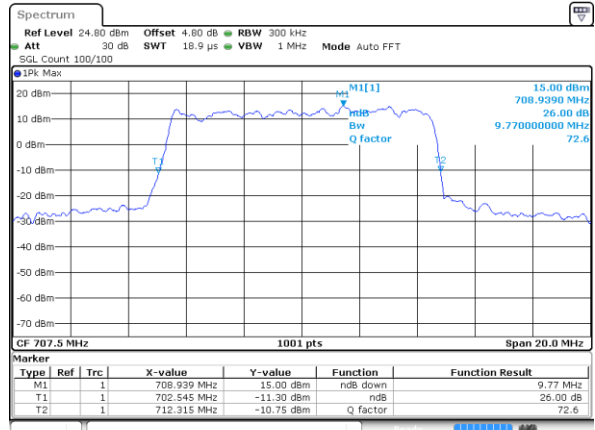
Date: 4 JUN 2020 00:51:11

Middle Channel / 10MHz / QPSK



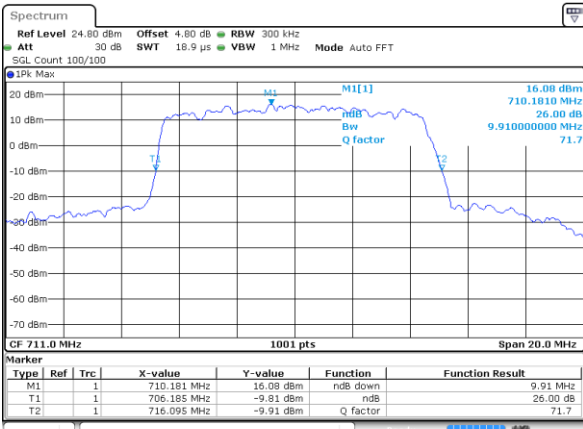
Date: 4 JUN 2020 00:50:51

Middle Channel / 10MHz / 16QAM



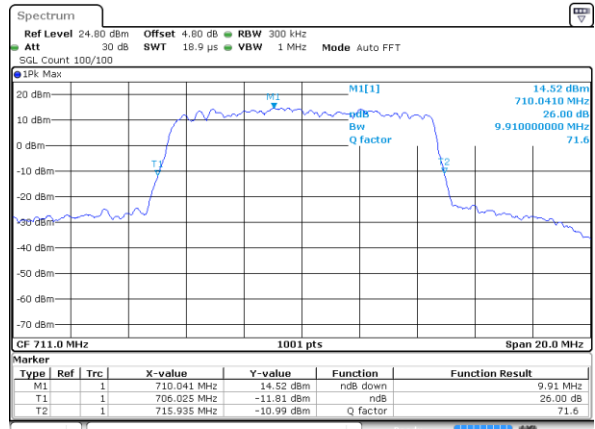
Date: 4 JUN 2020 00:51:01

Highest Channel / 10MHz / QPSK



Date: 4 JUN 2020 00:50:41

Highest Channel / 10MHz / 16QAM



Date: 4 JUN 2020 00:50:31



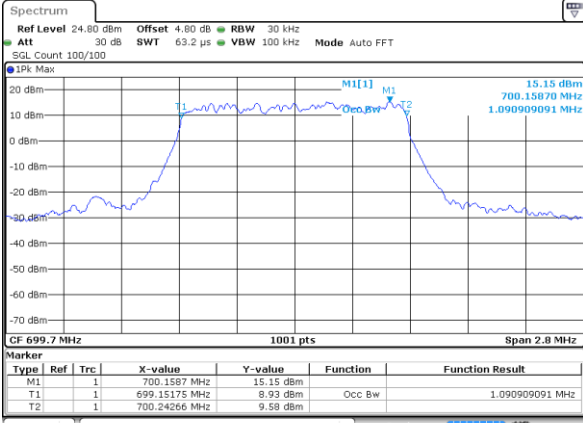
Occupied Bandwidth

Mode	LTE Band 12 : 99%OBW(MHz)							
	1.4MHz		3MHz		5MHz		10MHz	
BW								
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.09	1.09	2.70	2.70	4.49	4.48	9.03	8.99
Middle CH	1.09	1.09	2.73	2.71	4.49	4.51	9.03	9.01
Highest CH	1.09	1.10	2.72	2.70	4.51	4.51	9.07	8.97



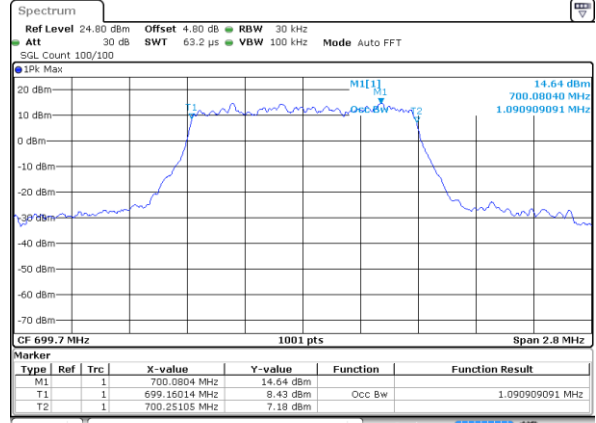
LTE Band 12

Lowest Channel / 1.4MHz / QPSK



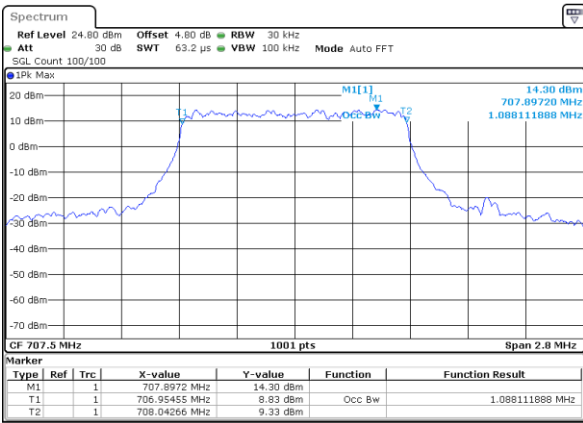
Date: 3 JUN 2020 23:59:46

Lowest Channel / 1.4MHz / 16QAM



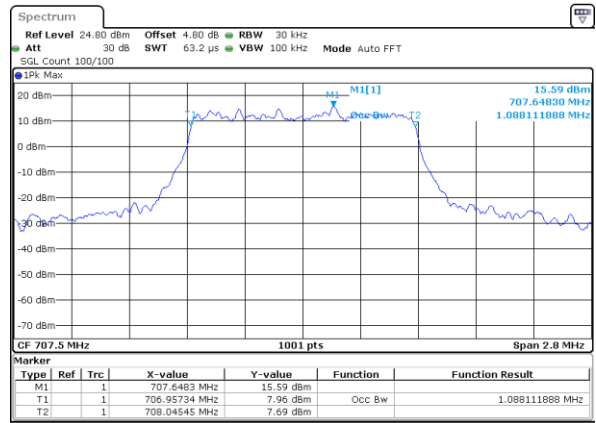
Date: 3 JUN 2020 23:59:56

Middle Channel / 1.4MHz / QPSK



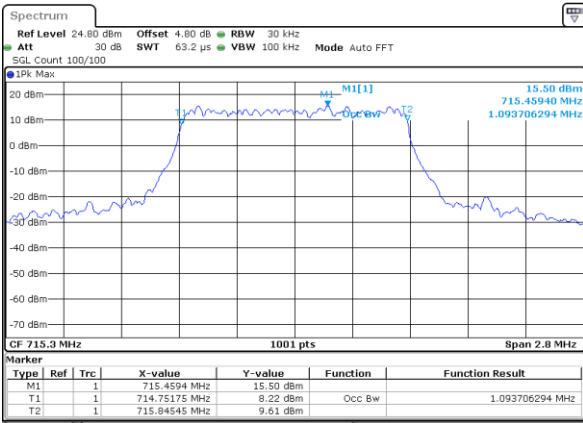
Date: 4 JUN 2020 00:00:16

Middle Channel / 1.4MHz / 16QAM



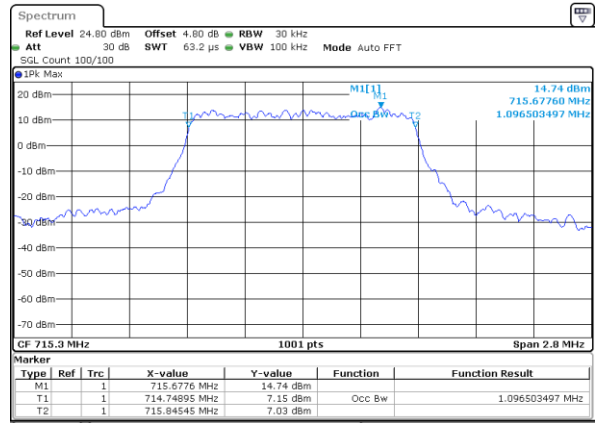
Date: 4 JUN 2020 00:00:06

Highest Channel / 1.4MHz / QPSK



Date: 4 JUN 2020 00:00:27

Highest Channel / 1.4MHz / 16QAM

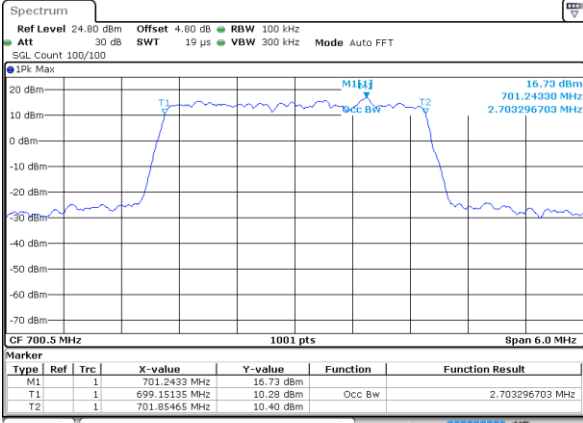


Date: 4 JUN 2020 00:00:37



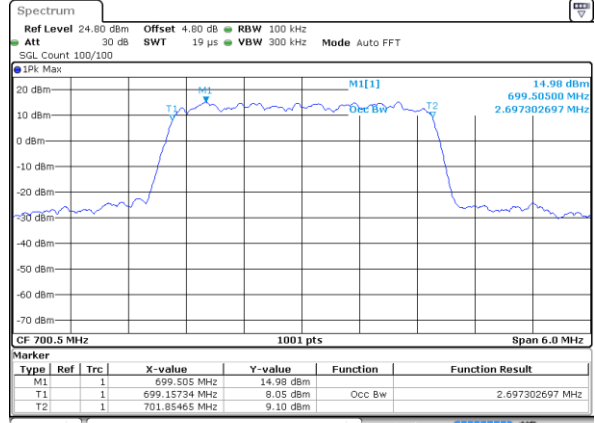
LTE Band 12

Lowest Channel / 3MHz / QPSK



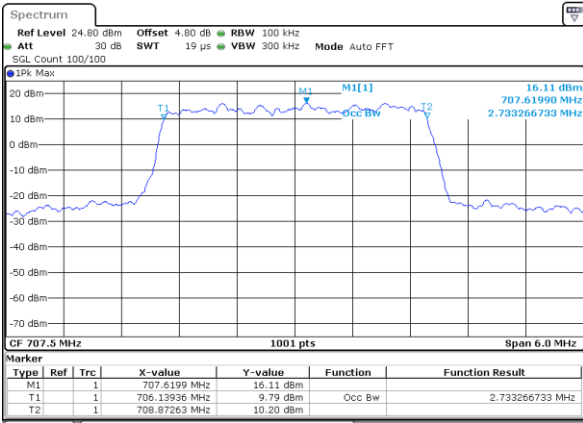
Date: 4 JUN 2020 00:16:21

Lowest Channel / 3MHz / 16QAM



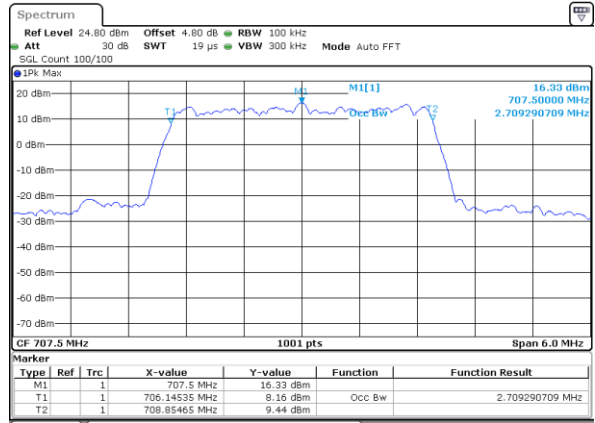
Date: 4 JUN 2020 00:16:31

Middle Channel / 3MHz / QPSK



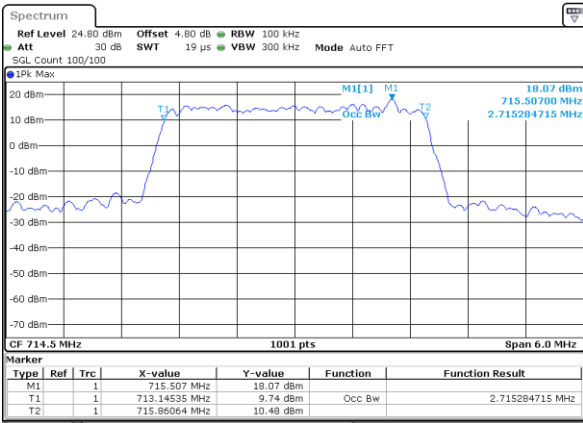
Date: 4 JUN 2020 00:16:51

Middle Channel / 3MHz / 16QAM



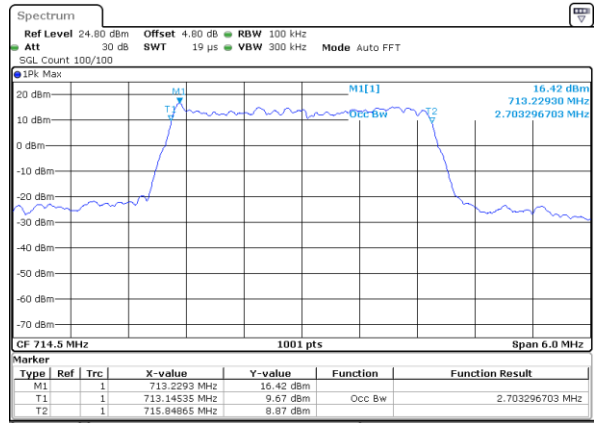
Date: 4 JUN 2020 00:16:41

Highest Channel / 3MHz / QPSK



Date: 4 JUN 2020 00:17:01

Highest Channel / 3MHz / 16QAM

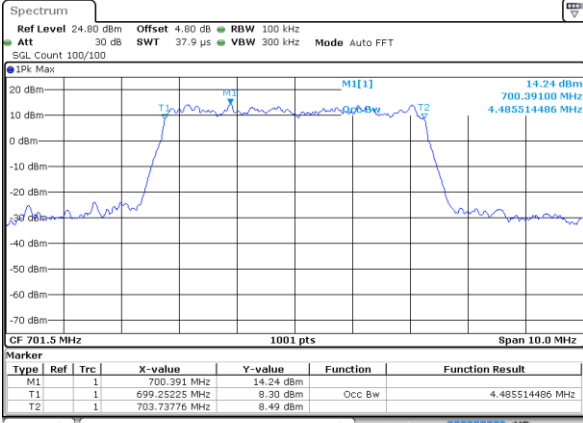


Date: 4 JUN 2020 00:17:12



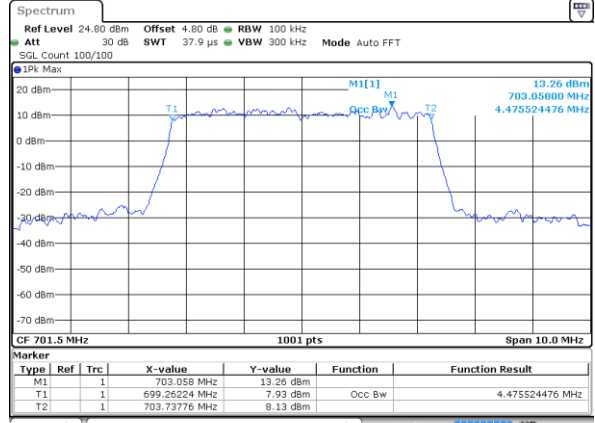
LTE Band 12

Lowest Channel / 5MHz / QPSK



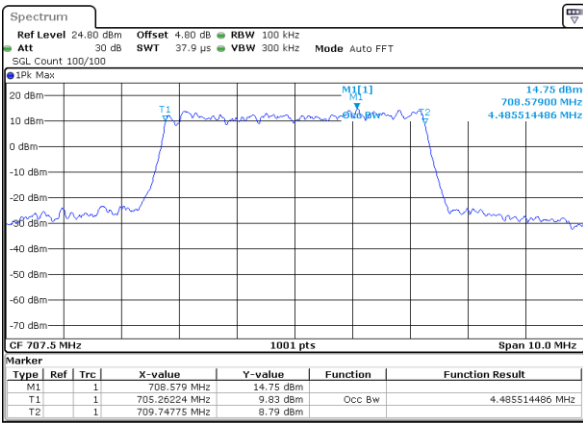
Date: 4 JUN 2020 00:32:55

Lowest Channel / 5MHz / 16QAM



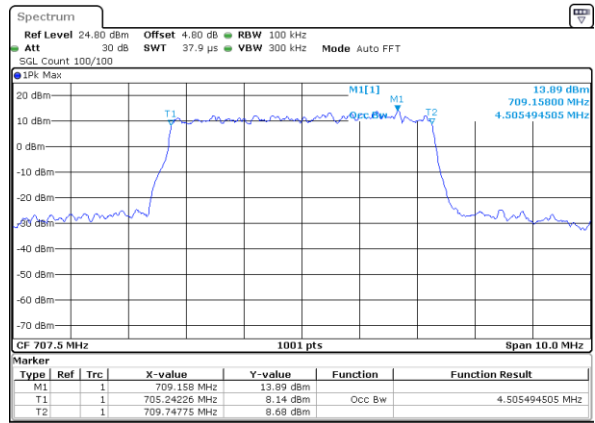
Date: 4 JUN 2020 00:33:06

Middle Channel / 5MHz / QPSK



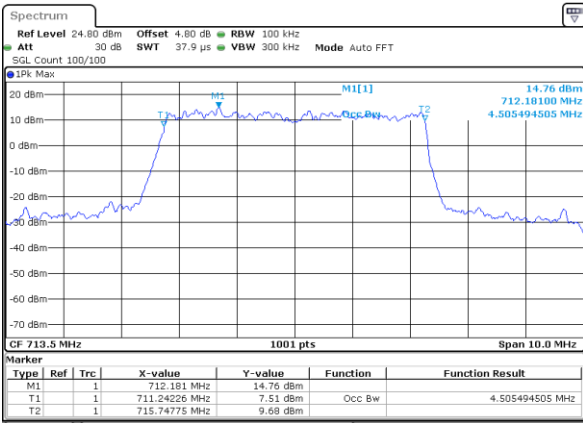
Date: 4 JUN 2020 00:33:26

Middle Channel / 5MHz / 16QAM



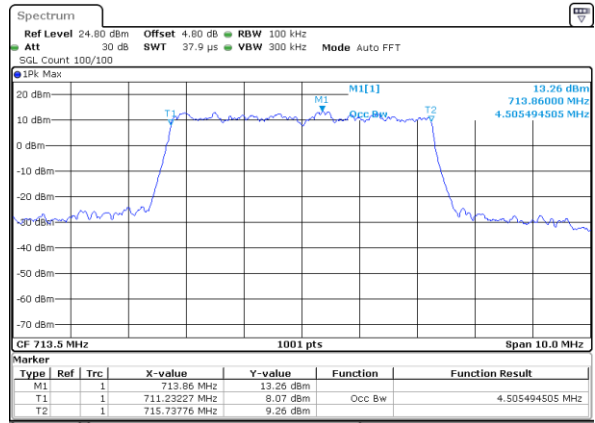
Date: 4 JUN 2020 00:33:16

Highest Channel / 5MHz / QPSK



Date: 4 JUN 2020 00:33:36

Highest Channel / 5MHz / 16QAM

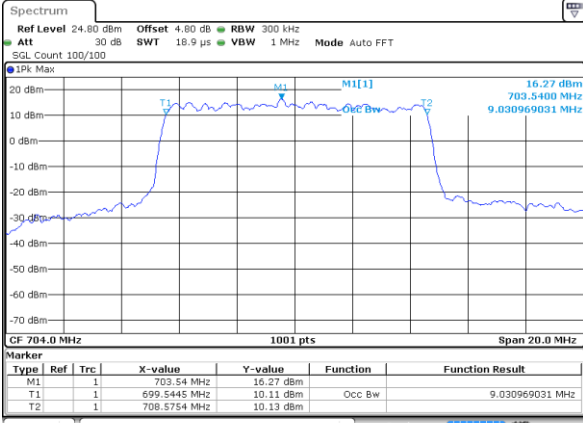


Date: 4 JUN 2020 00:33:46



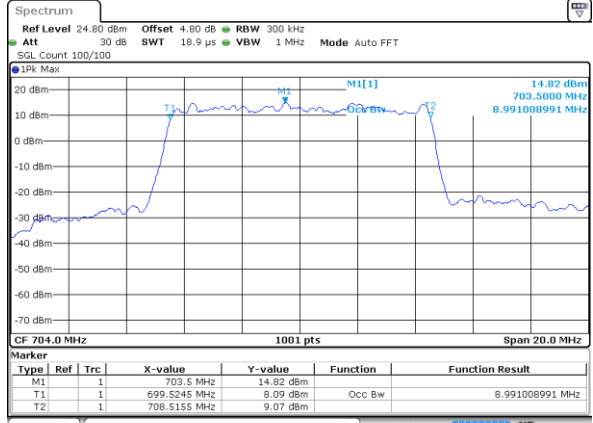
LTE Band 12

Lowest Channel / 10MHz / QPSK



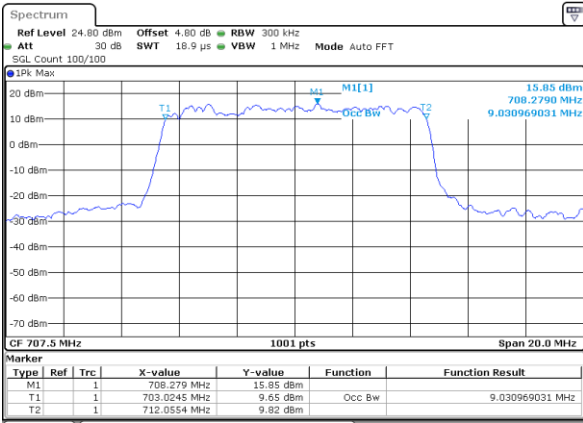
Date: 4 JUN 2020 00:49:30

Lowest Channel / 10MHz / 16QAM



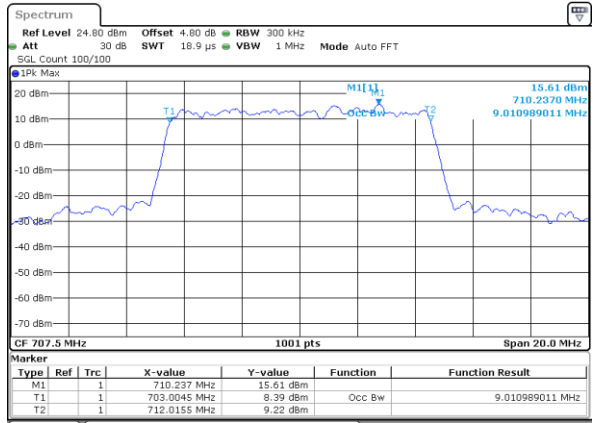
Date: 4 JUN 2020 00:49:40

Middle Channel / 10MHz / QPSK



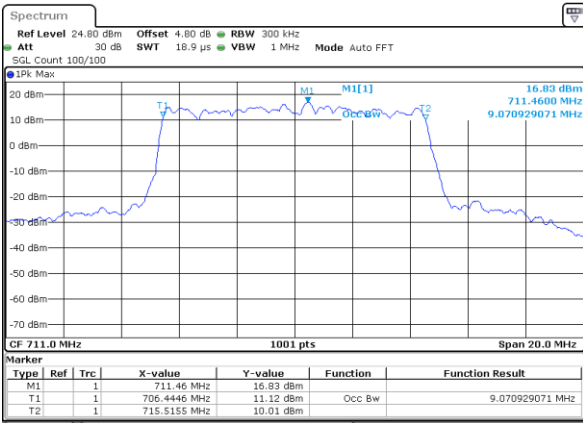
Date: 4 JUN 2020 00:50:01

Middle Channel / 10MHz / 16QAM



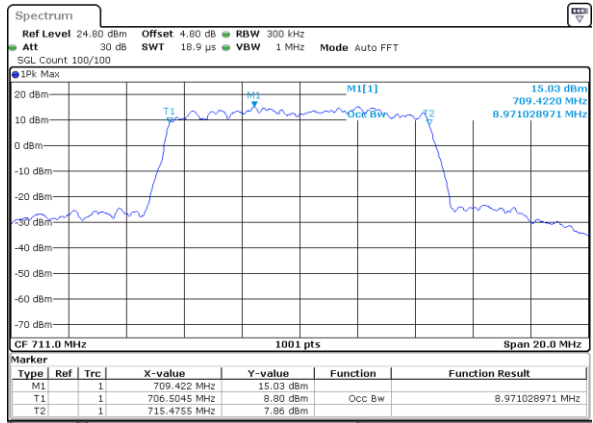
Date: 4 JUN 2020 00:49:50

Highest Channel / 10MHz / QPSK



Date: 4 JUN 2020 00:50:11

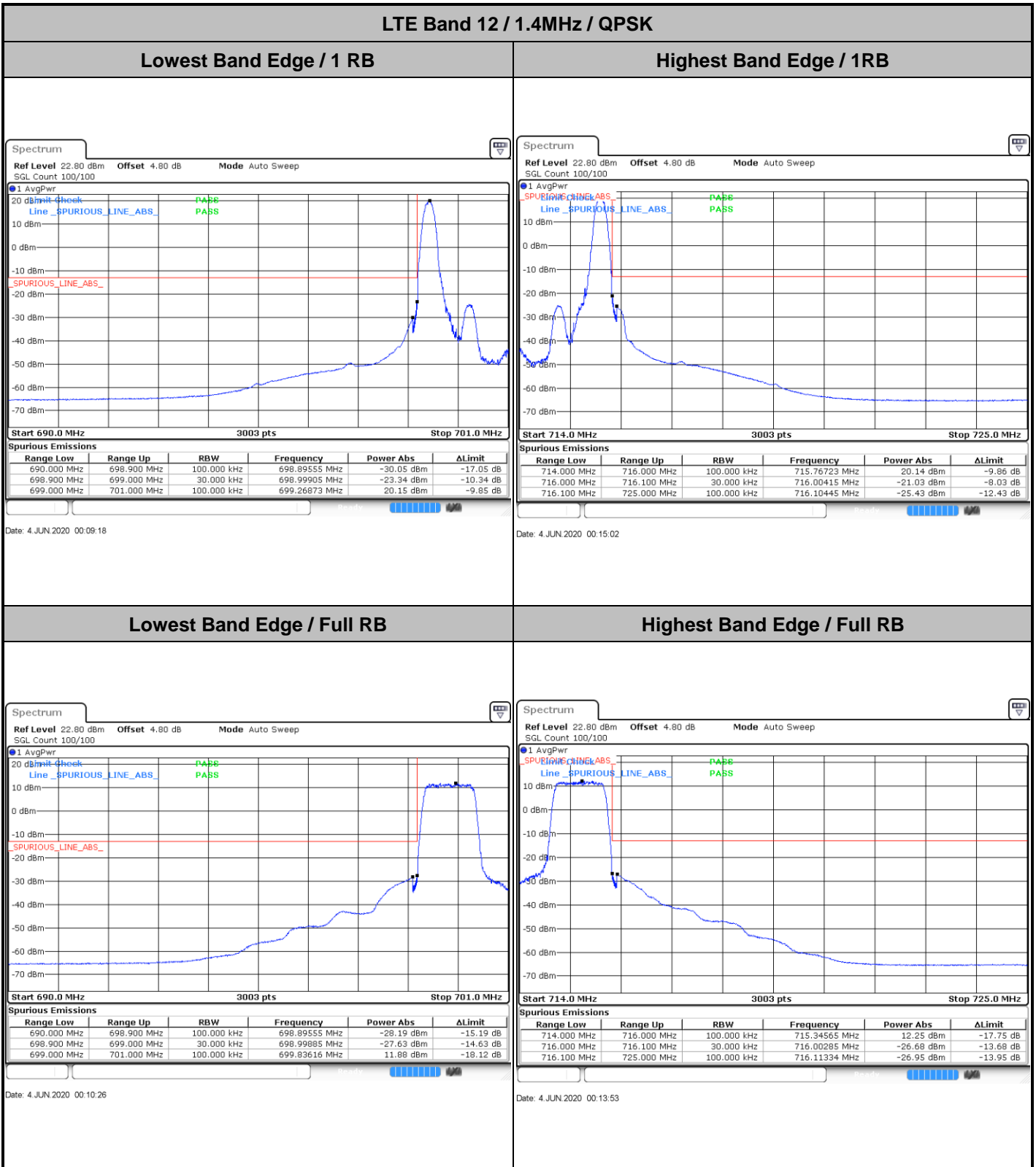
Highest Channel / 10MHz / 16QAM



Date: 4 JUN 2020 00:50:21



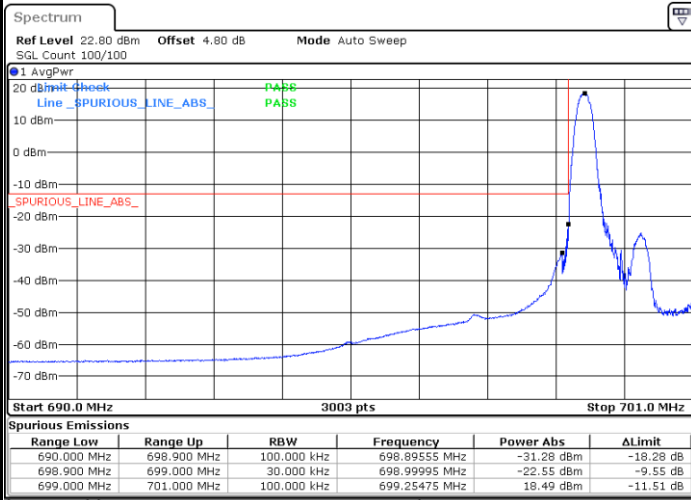
Conducted Band Edge





LTE Band 12 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



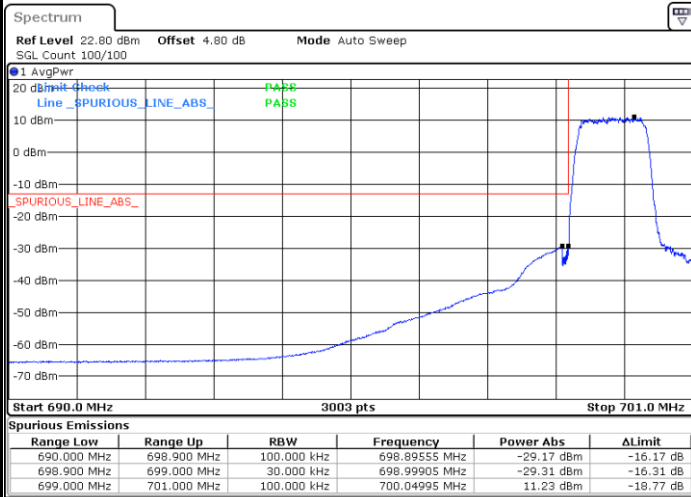
Date: 4 JUN 2020 00:08:09

Highest Band Edge / 1 RB



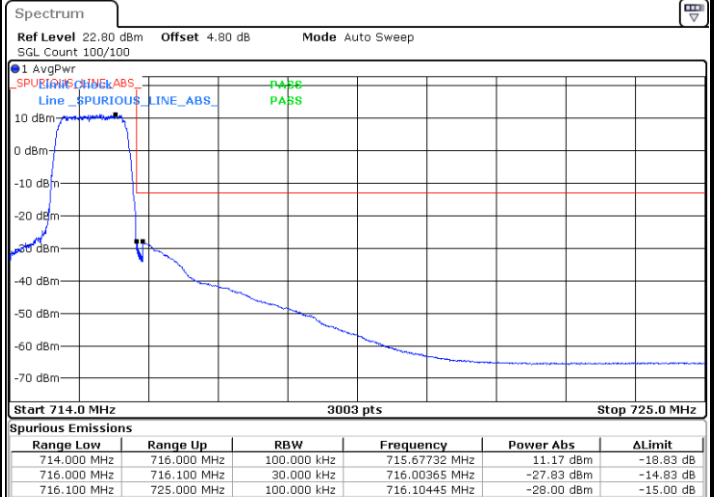
Date: 4 JUN 2020 00:16:10

Lowest Band Edge / Full RB



Date: 4 JUN 2020 00:11:35

Highest Band Edge / Full RB

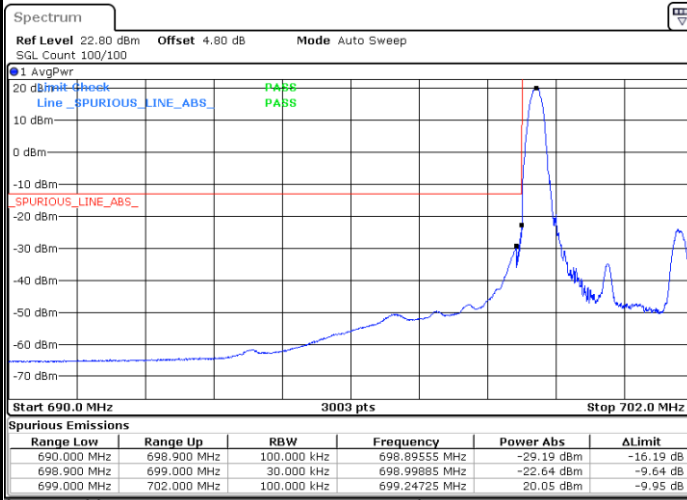


Date: 4 JUN 2020 00:12:44



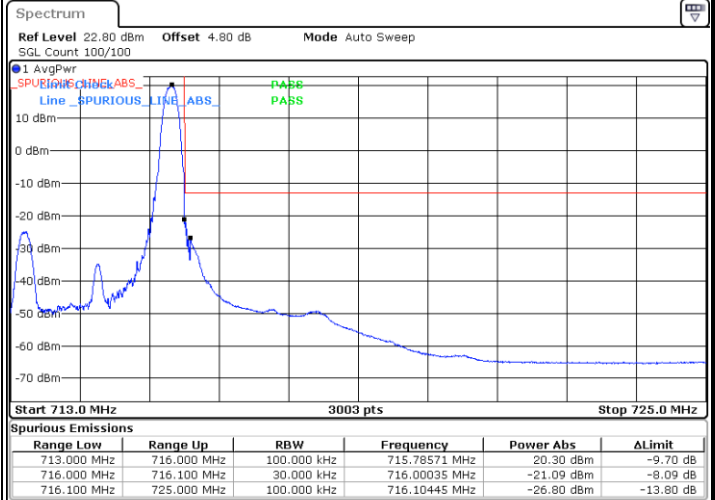
LTE Band 12 / 3MHz / QPSK

Lowest Band Edge / 1RB



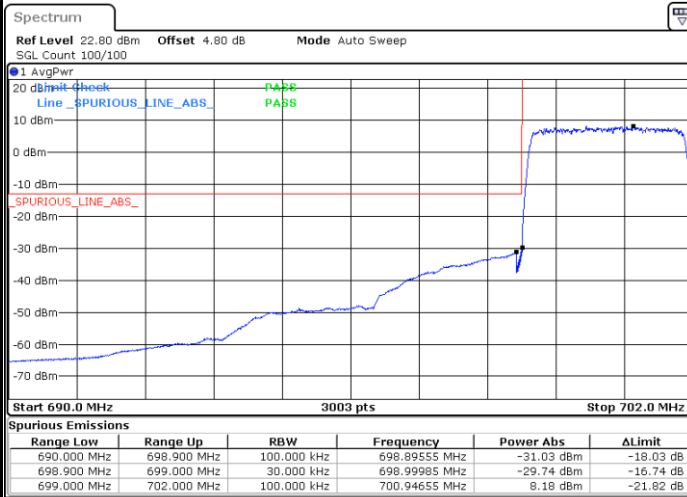
Date: 4 JUN 2020 00:25:52

Highest Band Edge / 1 RB



Date: 4 JUN 2020 00:31:36

Lowest Band Edge / Full RB



Date: 4 JUN 2020 00:27:01

Highest Band Edge / Full RB

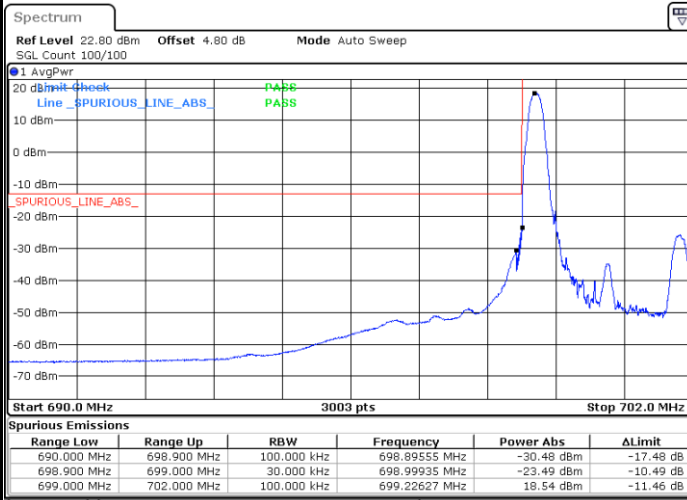


Date: 4 JUN 2020 00:30:27



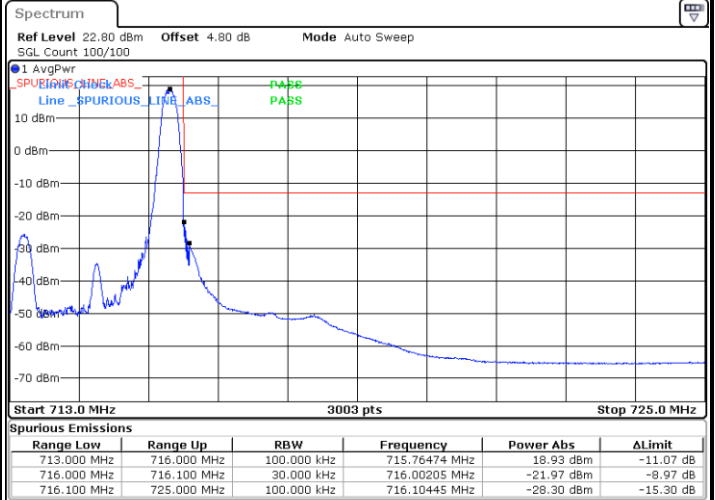
LTE Band 12 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



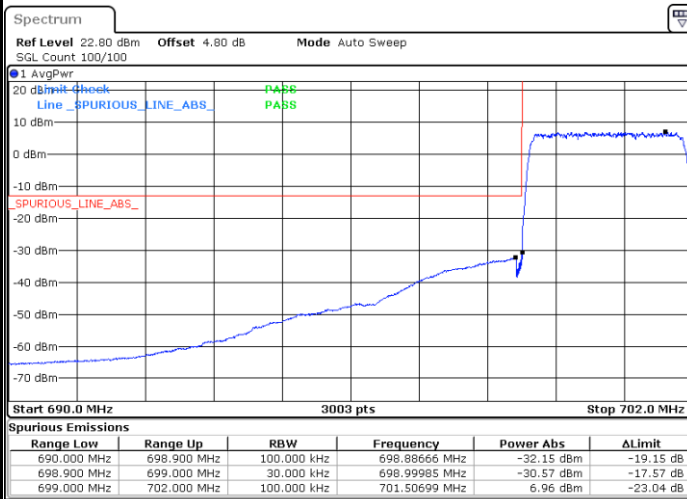
Date: 4 JUN 2020 00:24:43

Highest Band Edge / 1 RB



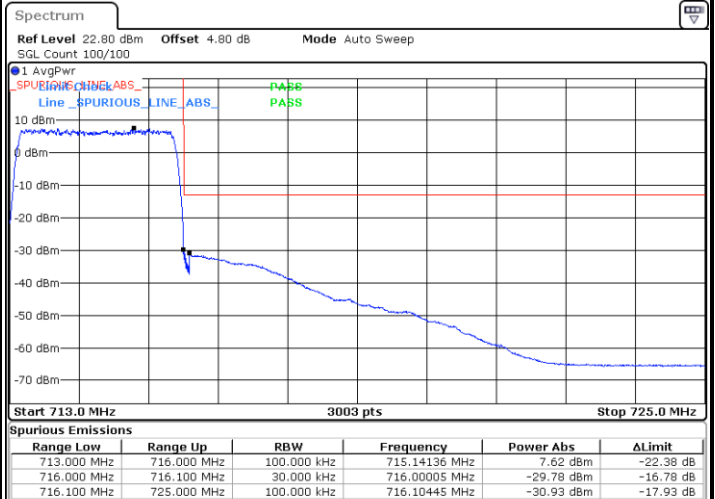
Date: 4 JUN 2020 00:32:45

Lowest Band Edge / Full RB



Date: 4 JUN 2020 00:28:10

Highest Band Edge / Full RB

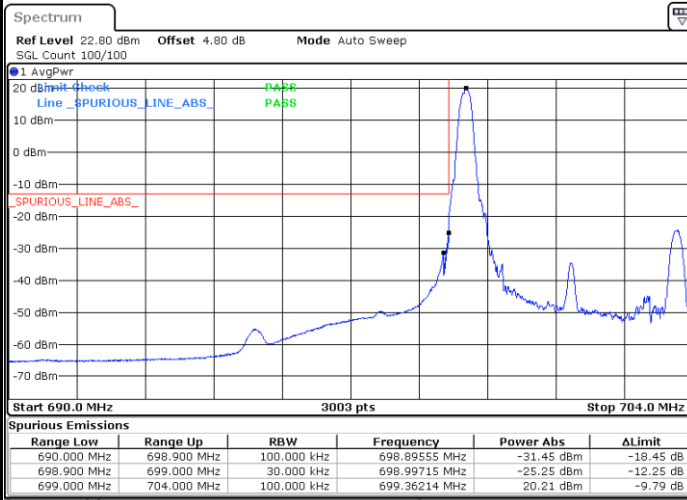


Date: 4 JUN 2020 00:29:19



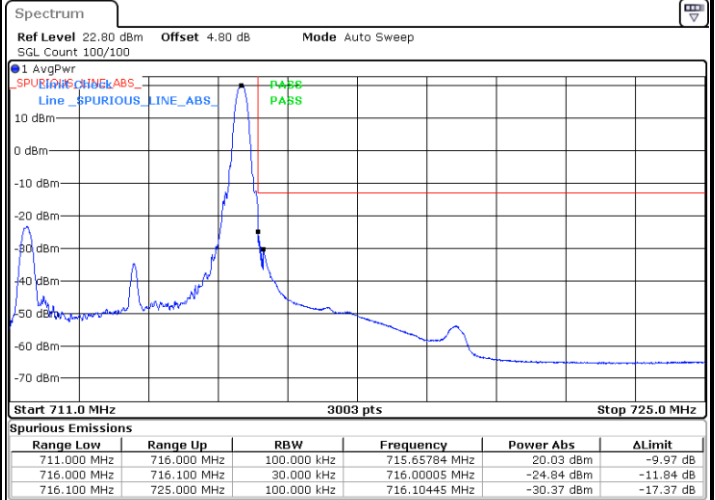
LTE Band 12 / 5MHz / QPSK

Lowest Band Edge / 1 RB



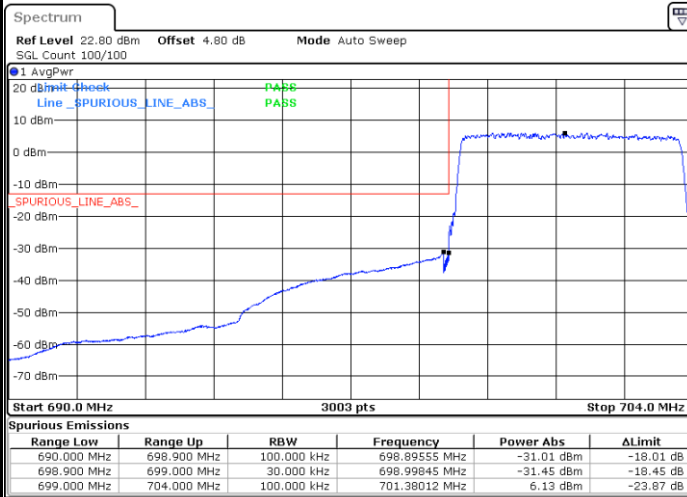
Date: 4 JUN 2020 00:42:27

Highest Band Edge / 1 RB



Date: 4 JUN 2020 00:48:11

Lowest Band Edge / Full RB



Date: 4 JUN 2020 00:43:36

Highest Band Edge / Full RB

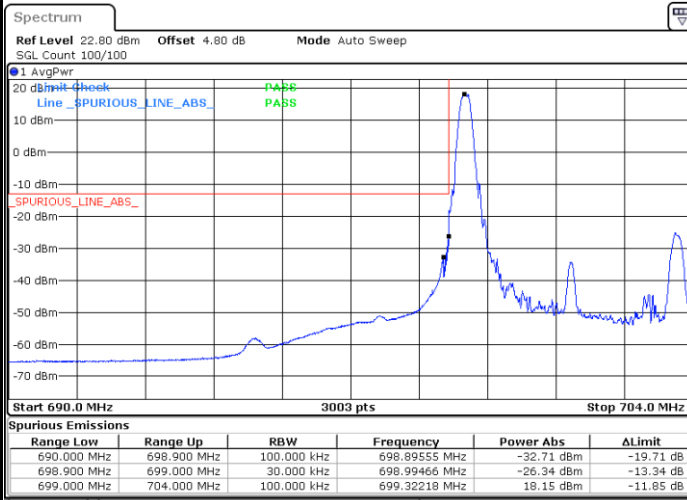


Date: 4 JUN 2020 00:47:02



LTE Band 12 / 5MHz / 16QAM

Lowest Band Edge / 1RB



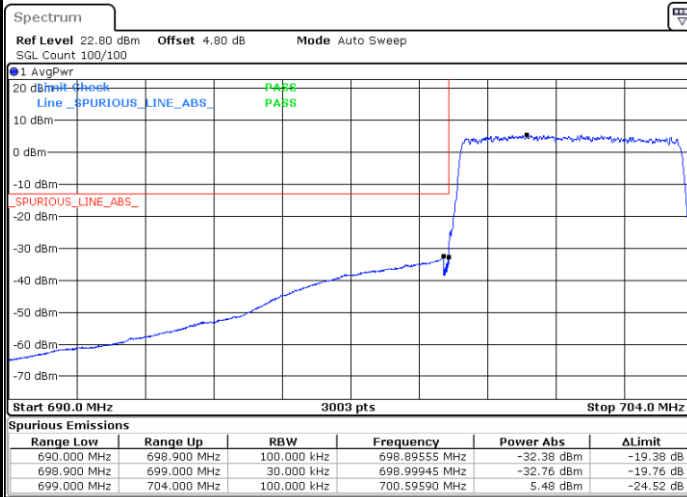
Date: 4 JUN 2020 00:41:18

Highest Band Edge / 1 RB



Date: 4 JUN 2020 00:49:20

Lowest Band Edge / Full RB



Date: 4 JUN 2020 00:44:45

Highest Band Edge / Full RB

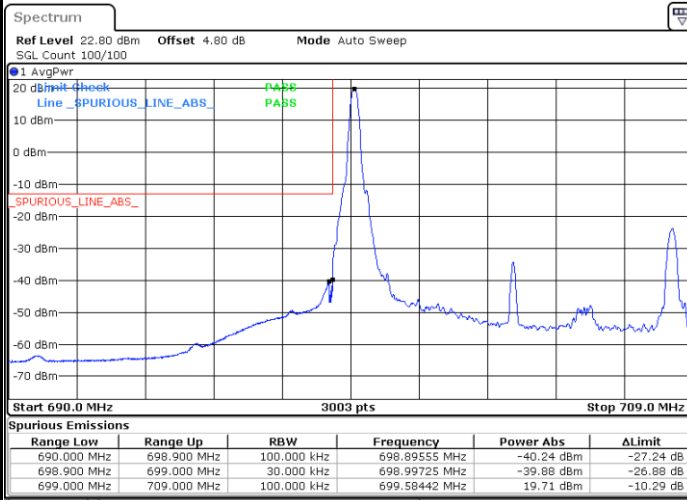


Date: 4 JUN 2020 00:45:53



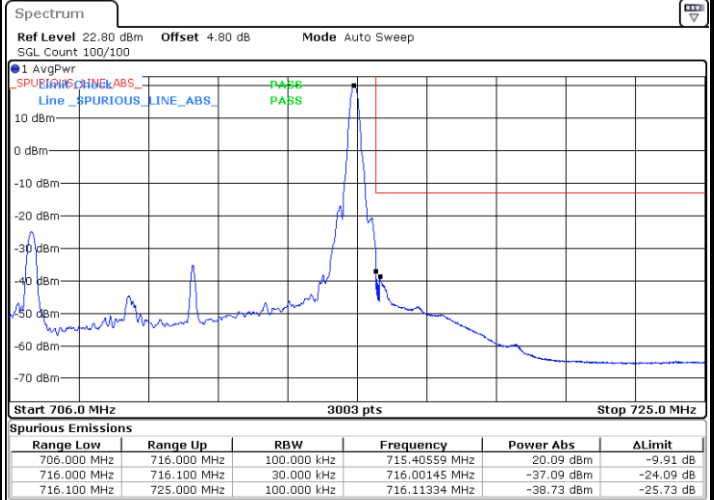
LTE Band 12 / 10MHz / QPSK

Lowest Band Edge / 1 RB



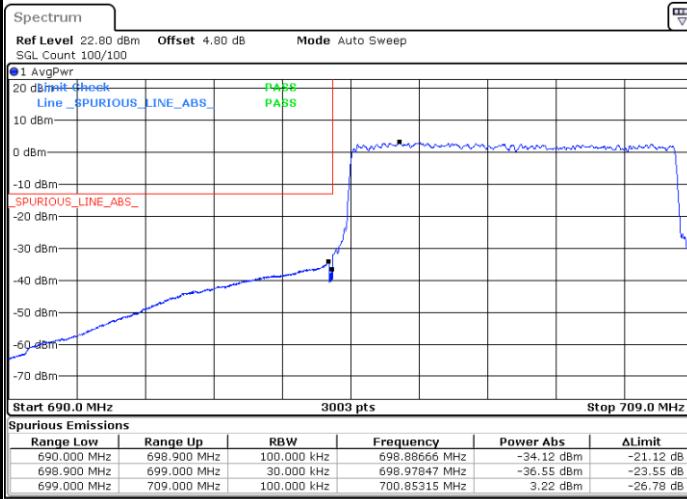
Date: 4 JUN 2020 00:59:01

Highest Band Edge / 1 RB



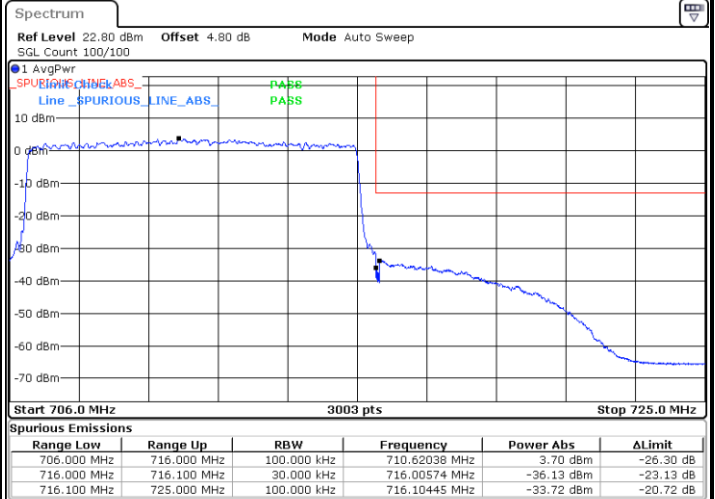
Date: 4 JUN 2020 01:04:45

Lowest Band Edge / Full RB



Date: 4 JUN 2020 01:00:10

Highest Band Edge / Full RB

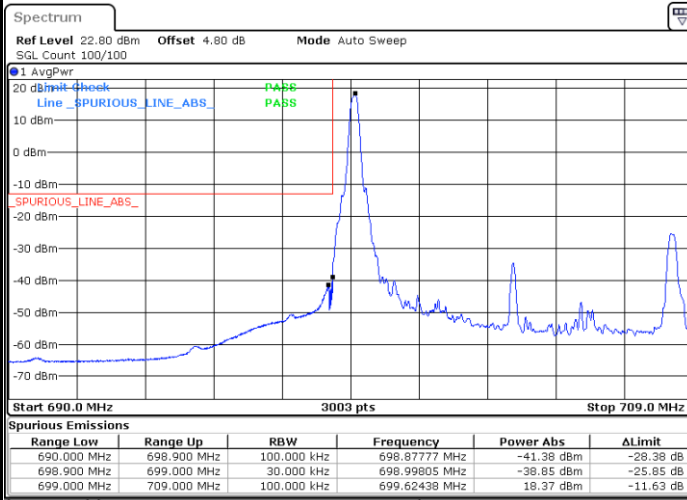


Date: 4 JUN 2020 01:03:37



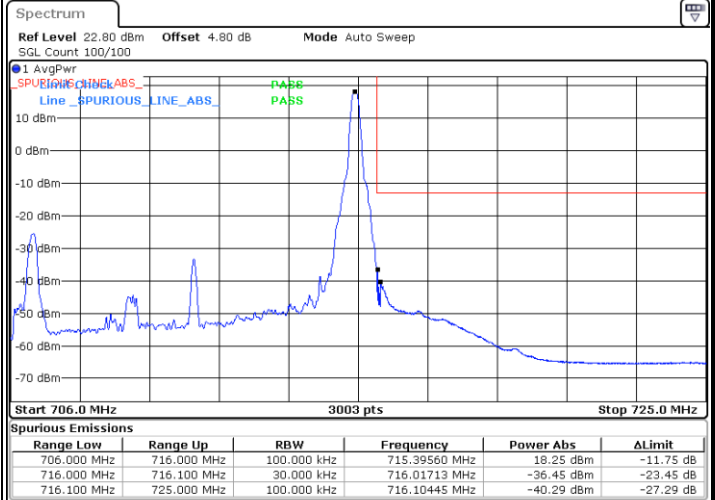
LTE Band 12 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



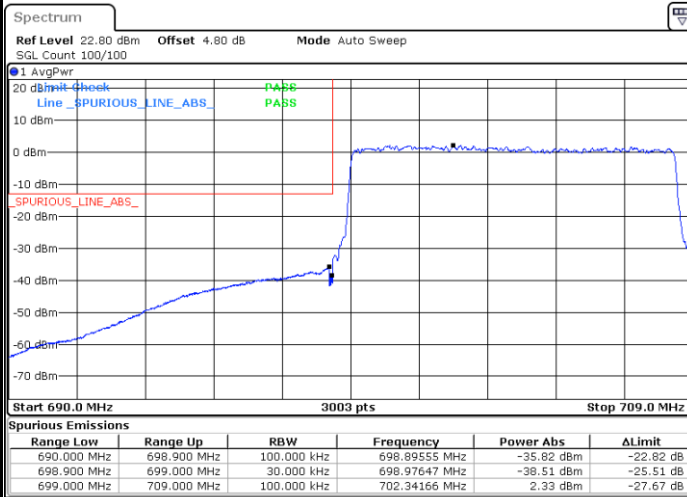
Date: 4 JUN 2020 00:57:53

Highest Band Edge / 1 RB



Date: 4 JUN 2020 01:05:54

Lowest Band Edge / Full RB



Date: 4 JUN 2020 01:01:19

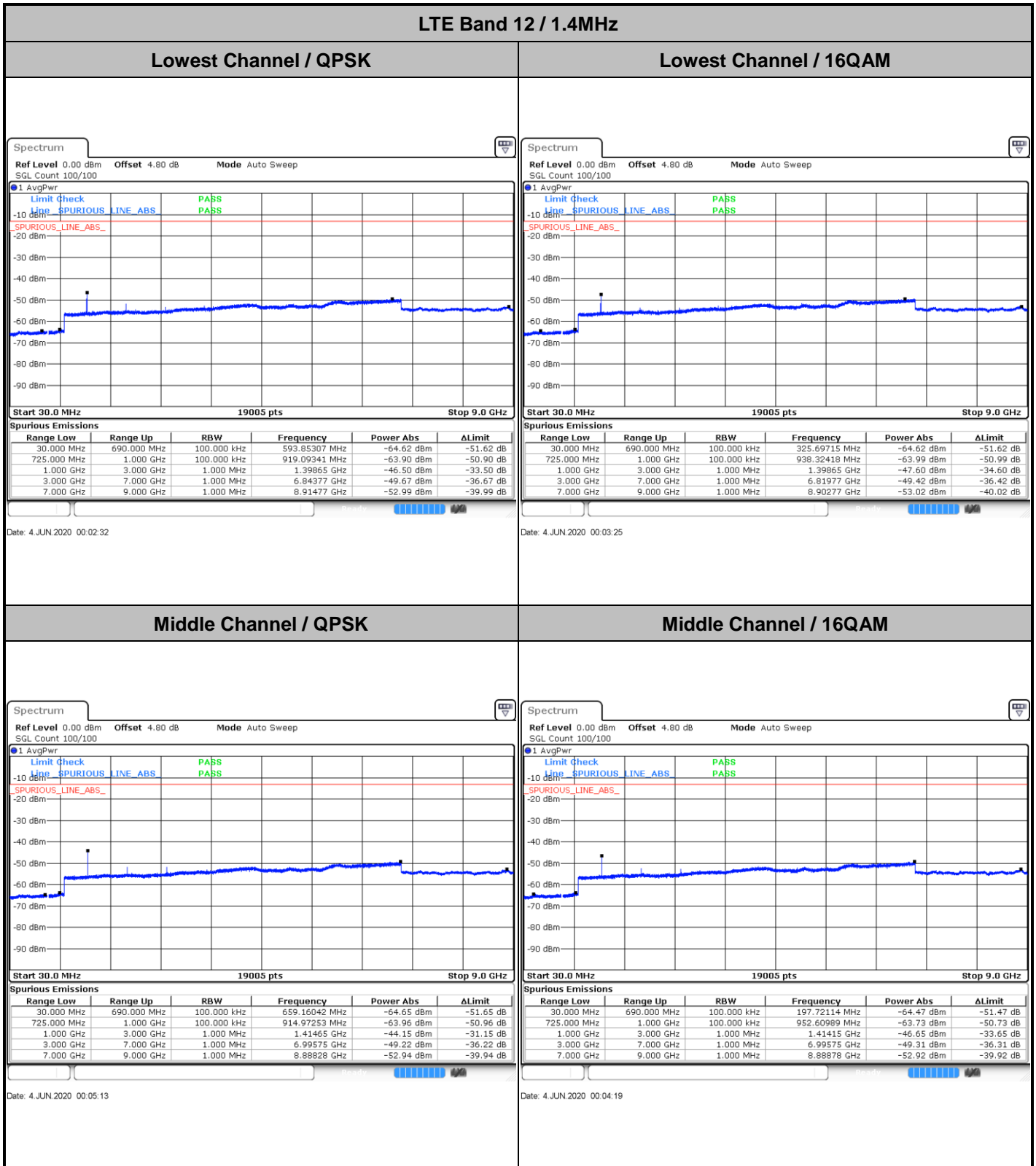
Highest Band Edge / Full RB



Date: 4 JUN 2020 01:02:28



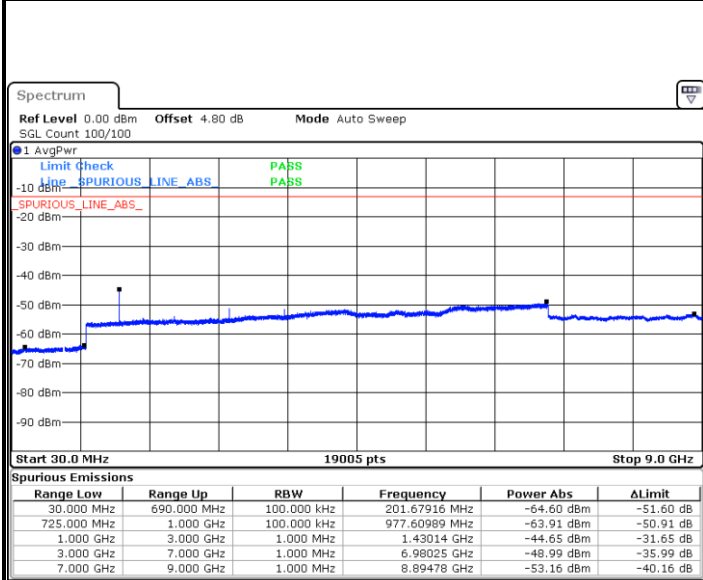
Conducted Spurious Emission





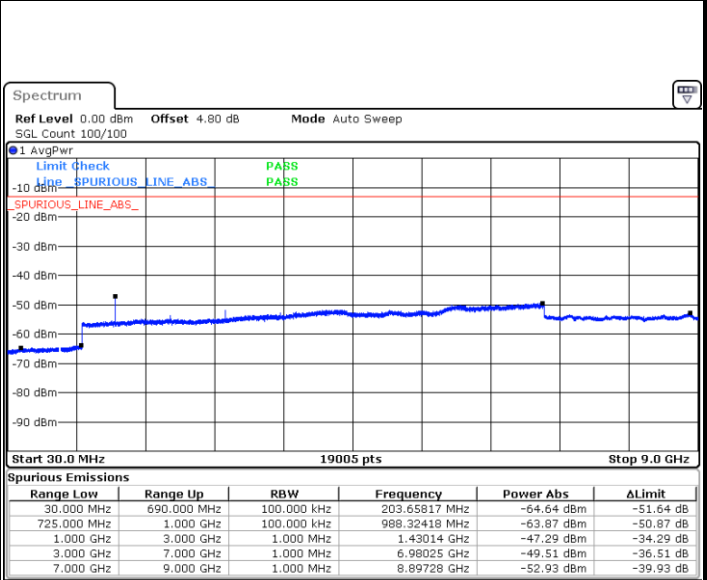
LTE Band 12 / 1.4MHz

Highest Channel / QPSK



Date: 4 JUN 2020 00:06:07

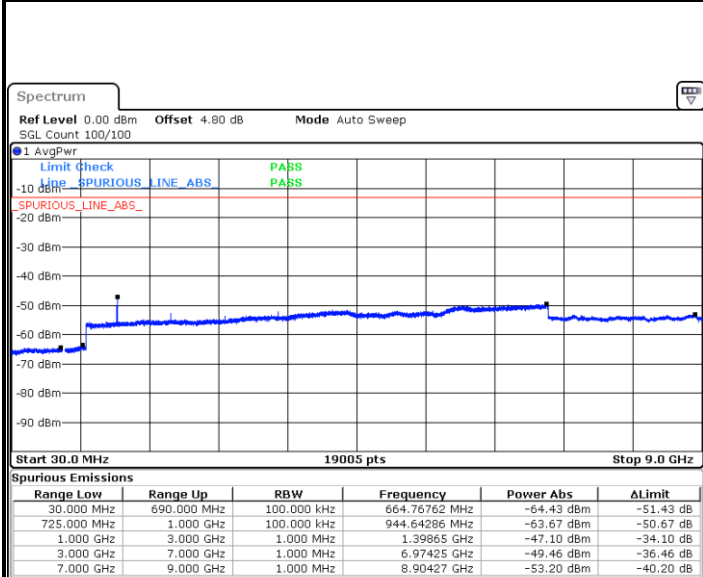
Highest Channel / 16QAM



Date: 4 JUN 2020 00:07:01

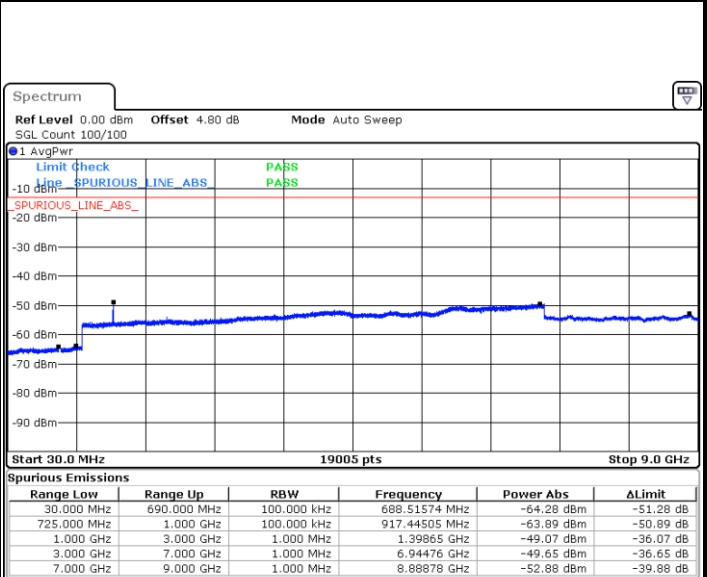
LTE Band 12 / 3MHz

Lowest Channel / QPSK



Date: 4 JUN 2020 00:19:06

Lowest Channel / 16QAM



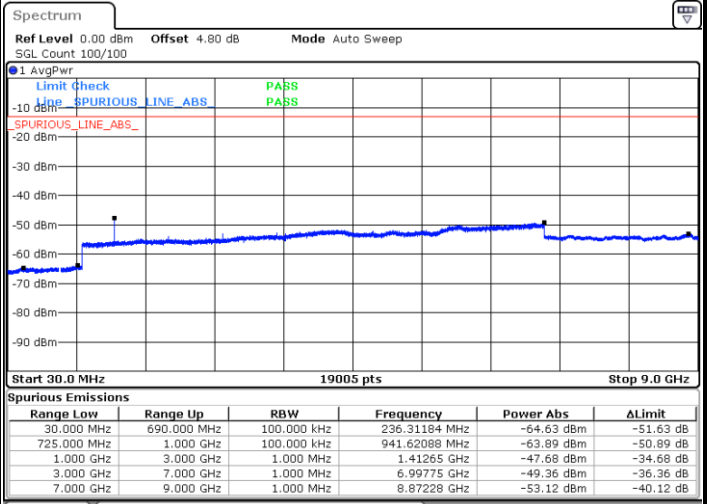
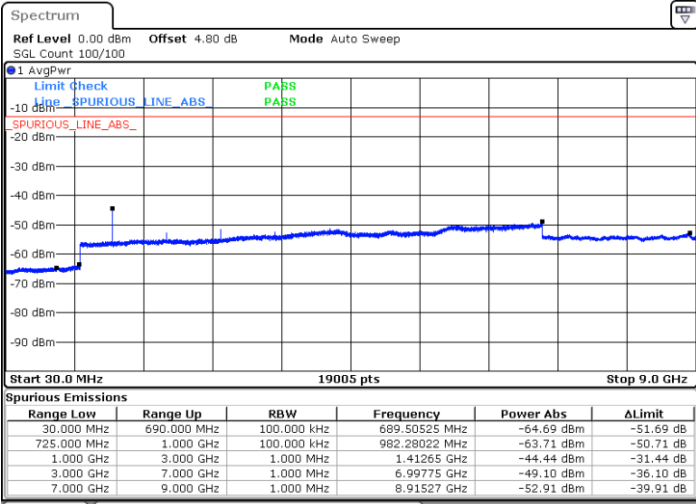
Date: 4 JUN 2020 00:20:00



LTE Band 12 / 3MHz

Middle Channel / QPSK

Middle Channel / 16QAM

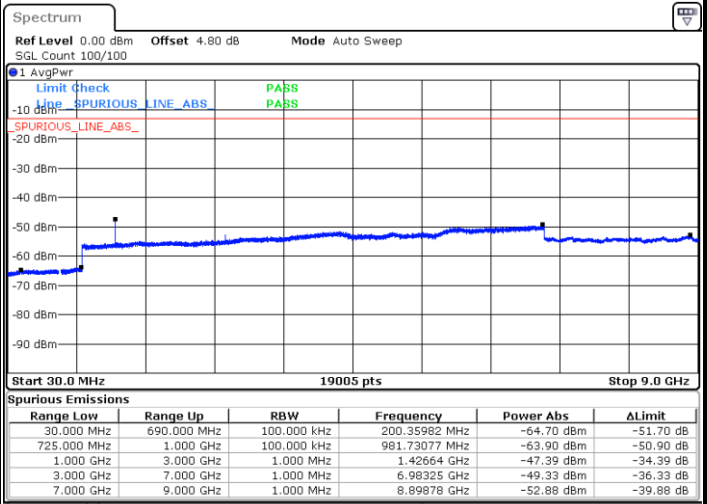
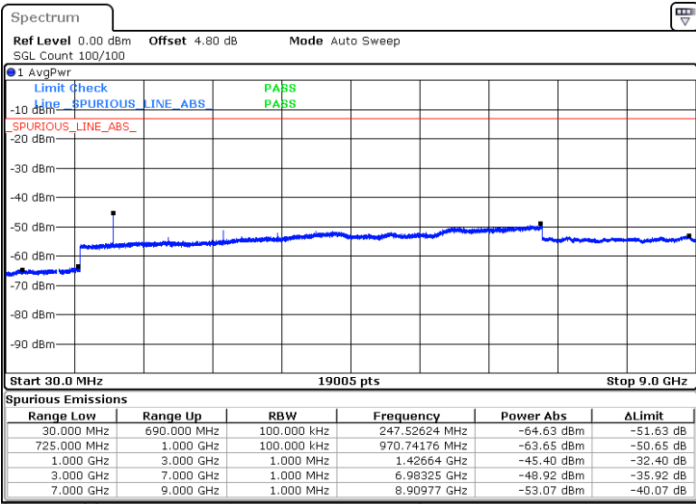


Date: 4 JUN 2020 00:21:48

Date: 4 JUN 2020 00:20:54

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 4 JUN 2020 00:22:41

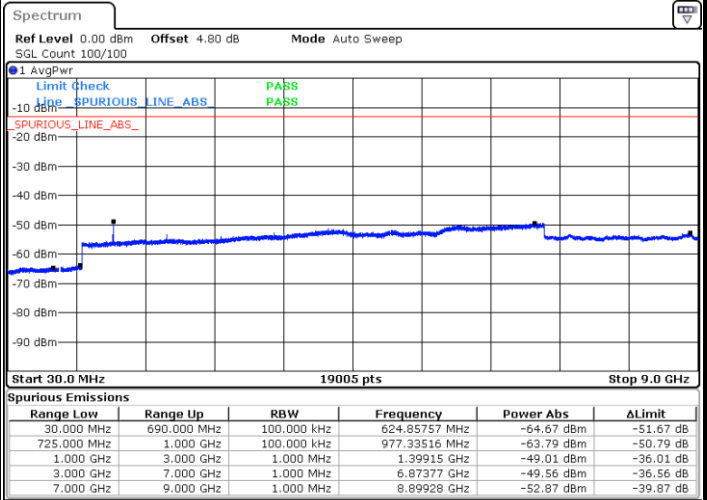
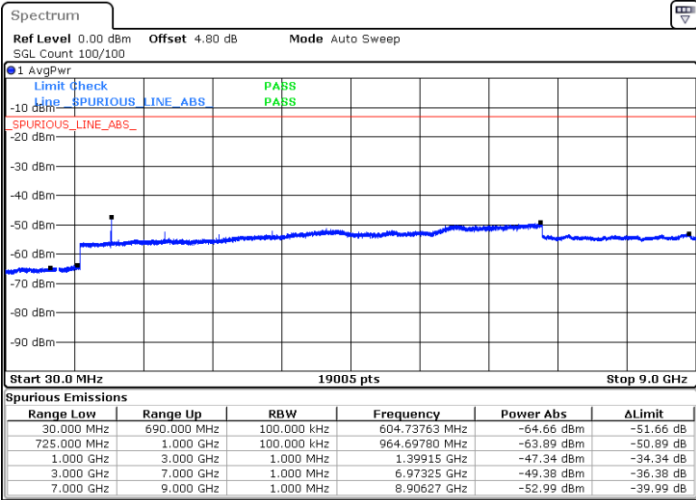
Date: 4 JUN 2020 00:23:35



LTE Band 12 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

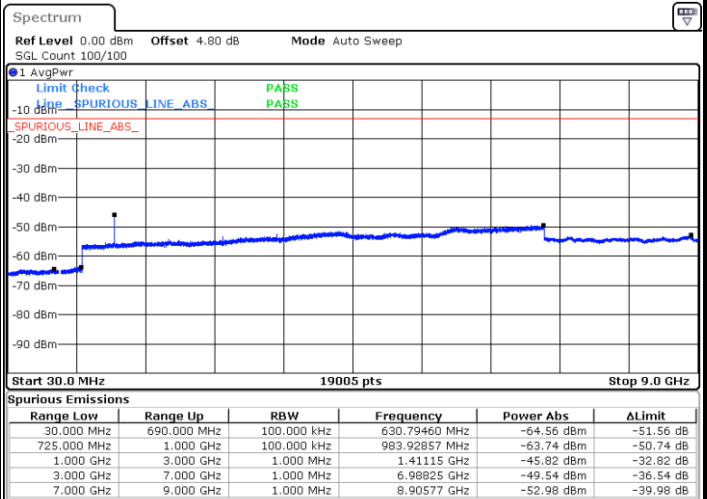
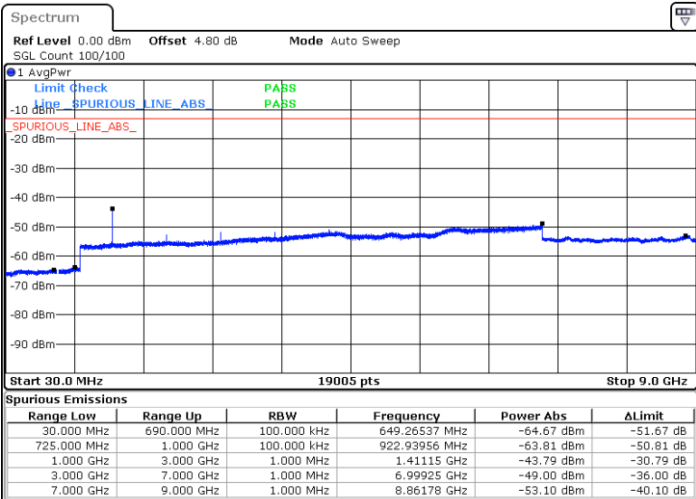


Date: 4 JUN 2020 00:35:41

Date: 4 JUN 2020 00:36:35

Middle Channel / QPSK

Middle Channel / 16QAM



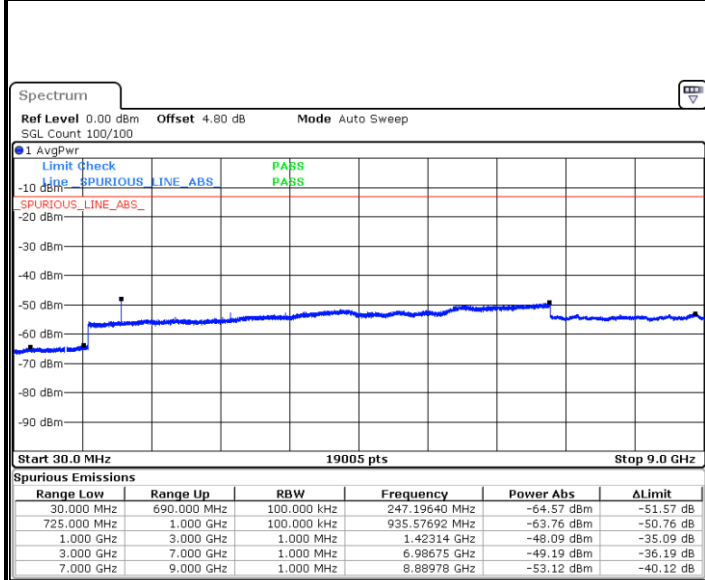
Date: 4 JUN 2020 00:38:22

Date: 4 JUN 2020 00:37:29



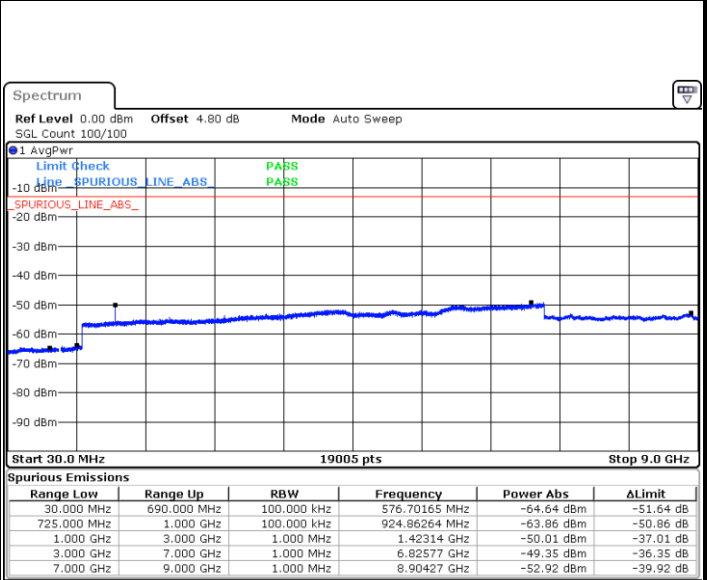
LTE Band 12 / 5MHz

Highest Channel / QPSK



Date: 4 JUN 2020 00:39:16

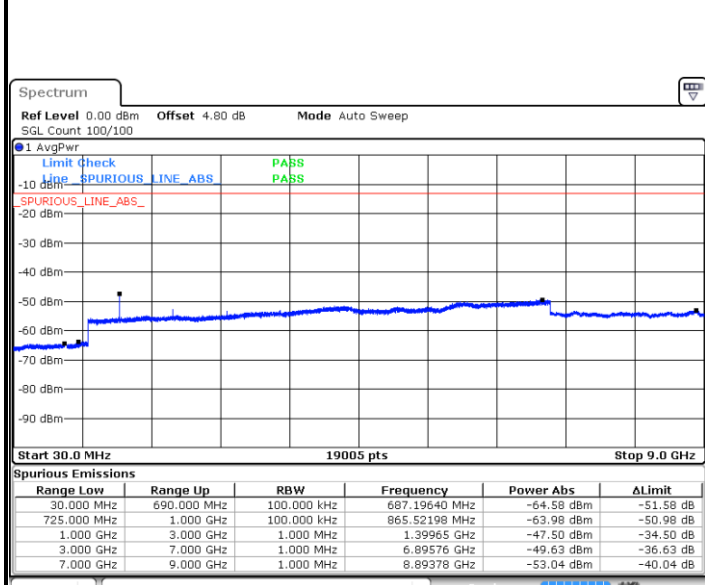
Highest Channel / 16QAM



Date: 4 JUN 2020 00:40:10

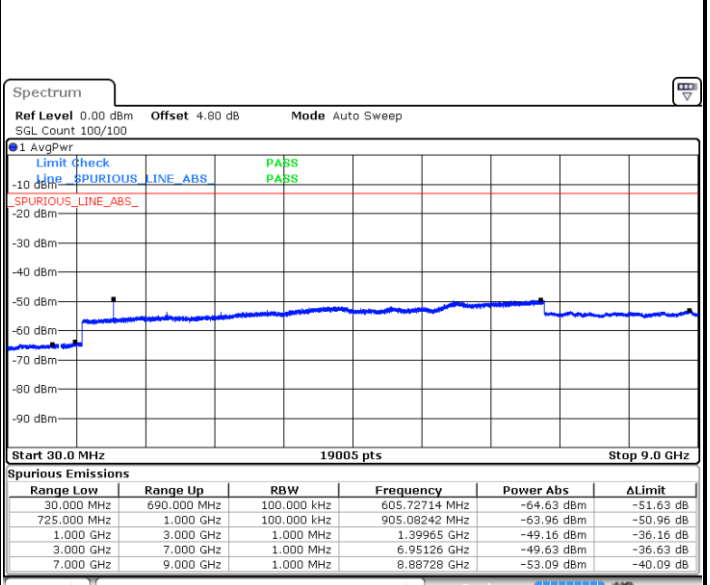
LTE Band 12 / 10MHz

Lowest Channel / QPSK



Date: 4 JUN 2020 00:52:15

Lowest Channel / 16QAM

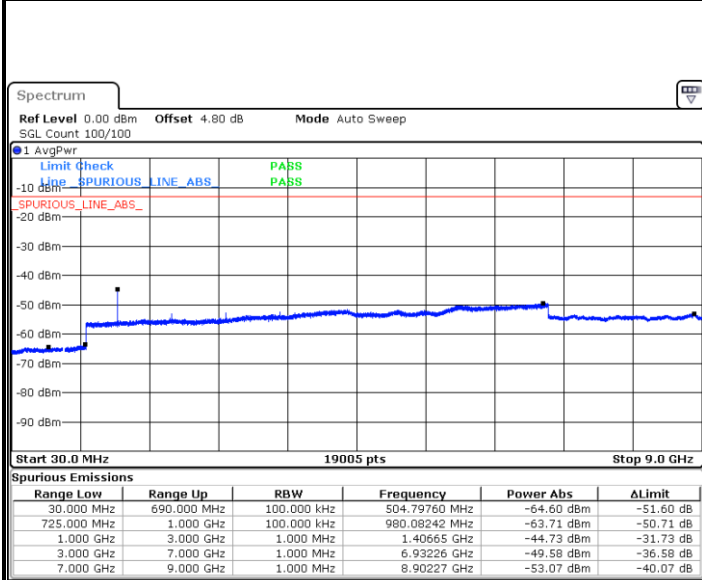


Date: 4 JUN 2020 00:53:09



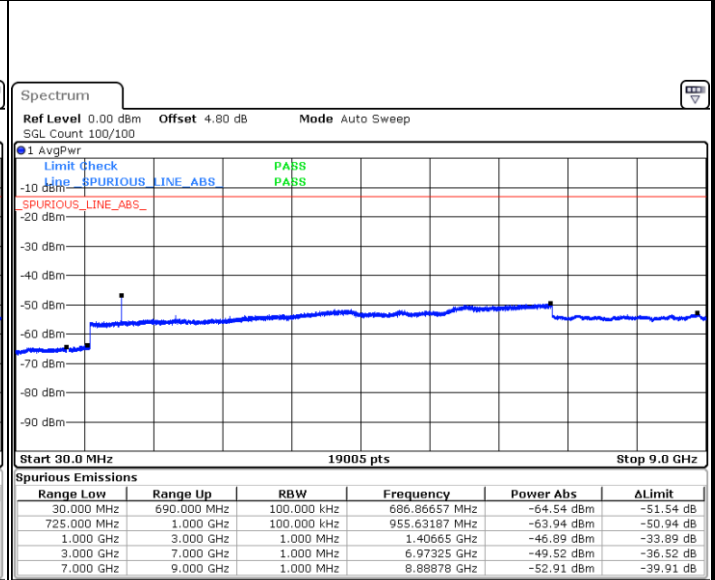
LTE Band 12 / 10MHz

Middle Channel / QPSK



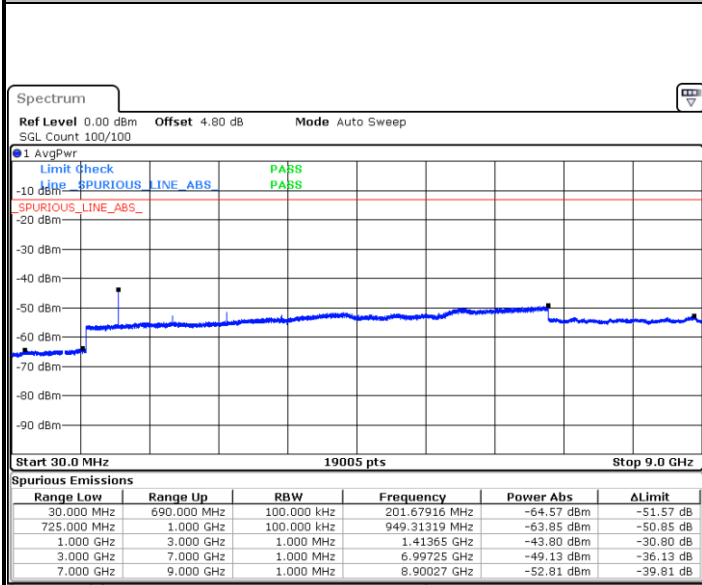
Date: 4 JUN 2020 00:54:57

Middle Channel / 16QAM



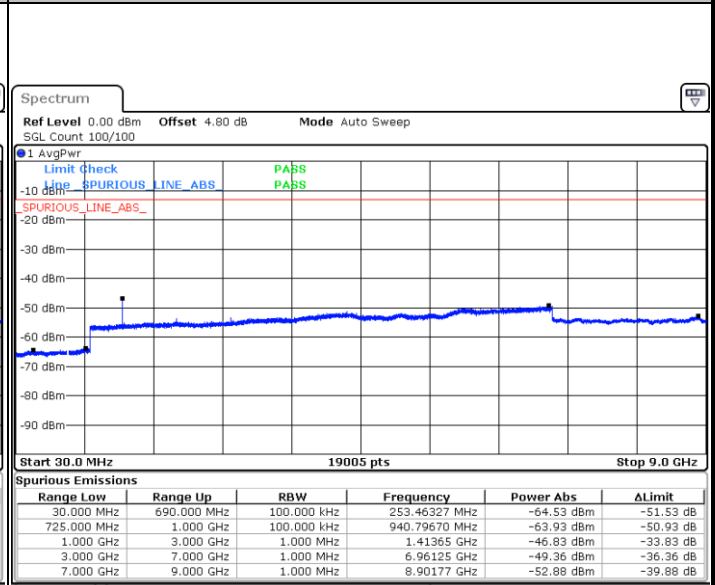
Date: 4 JUN 2020 00:54:03

Highest Channel / QPSK



Date: 4 JUN 2020 00:55:51

Highest Channel / 16QAM



Date: 4 JUN 2020 00:56:44



Frequency Stability

Test Conditions		LTE Band 12 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
60	Normal Voltage	0.0003	PASS
50	Normal Voltage	0.0078	
40	Normal Voltage	0.0006	
30	Normal Voltage	0.0072	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0075	
0	Normal Voltage	0.0006	
-10	Normal Voltage	0.0011	
-20	Normal Voltage	0.0058	
-30	Normal Voltage	0.0051	
20	Maximum Voltage	0.0017	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0088	

Note:

1. Normal Voltage =5 V. ; Battery End Point (BEP) =4.5 V. ; Maximum Voltage =5.5 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 66

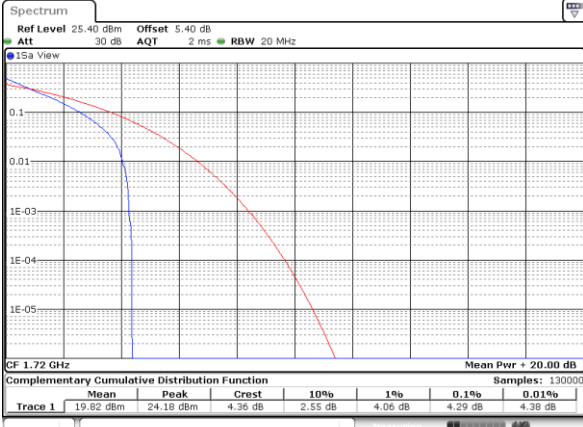
Peak-to-Average Ratio

Mode	LTE Band 66 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.29	4.75	5.39	5.71	PASS
Middle CH	4.49	4.67	5.62	5.77	
Highest CH	4.32	4.67	5.54	5.65	



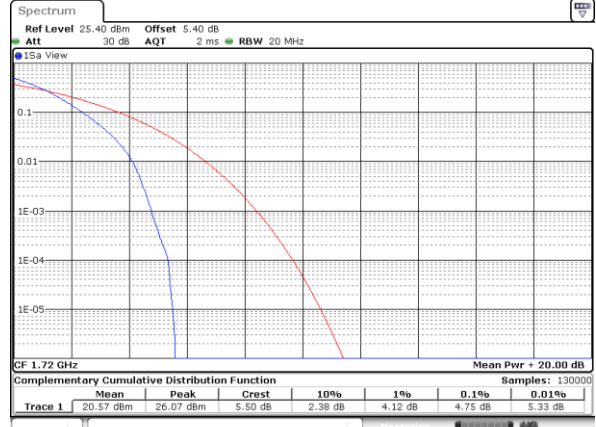
LTE Band 66 / 20MHz / QPSK

Lowest Channel / 1RB



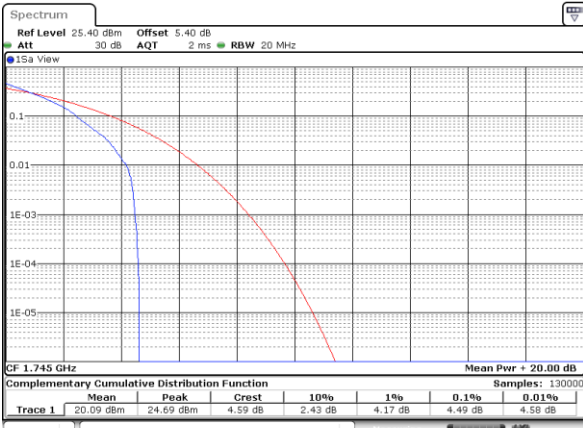
Date: 9 JUN 2020 00:03:56

Lowest Channel / Full RB



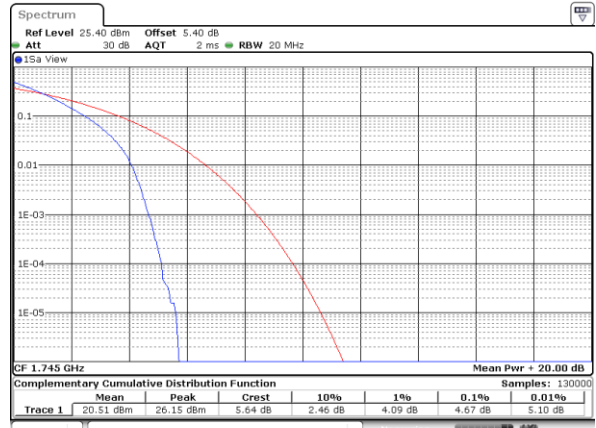
Date: 8 JUN 2020 23:59:44

Middle Channel / 1RB



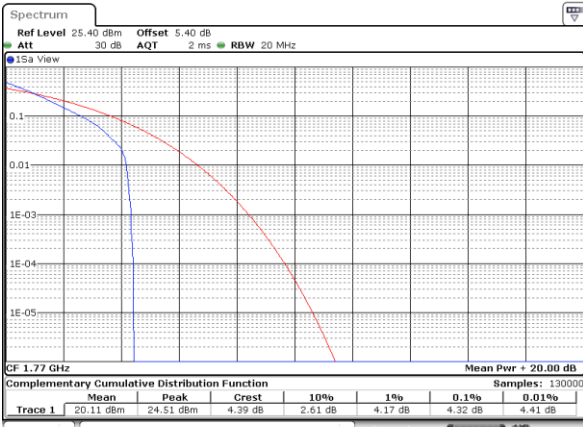
Date: 9 JUN 2020 00:05:17

Middle Channel / Full RB



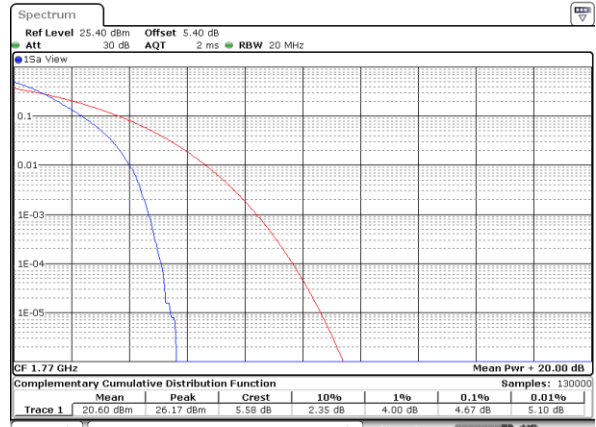
Date: 9 JUN 2020 00:09:51

Highest Channel / 1RB



Date: 9 JUN 2020 00:16:42

Highest Channel / Full RB

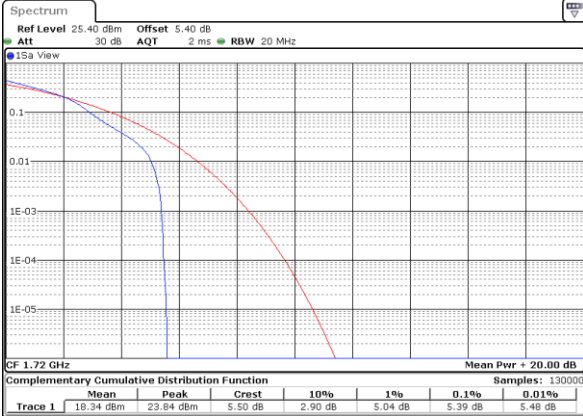


Date: 9 JUN 2020 00:11:40



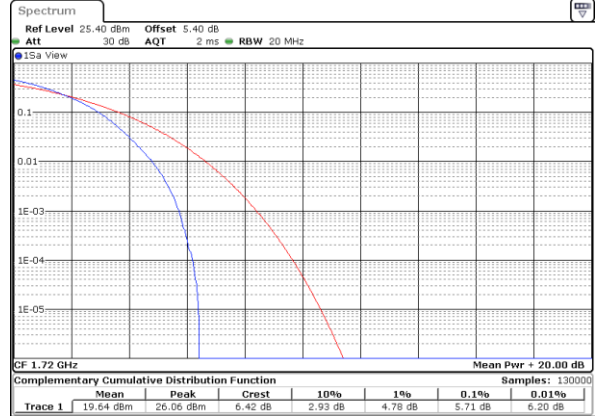
LTE Band 66 / 20MHz / 16QAM

Lowest Channel / 1RB



Date: 9 JUN 2020 00:03:39

Lowest Channel / Full RB



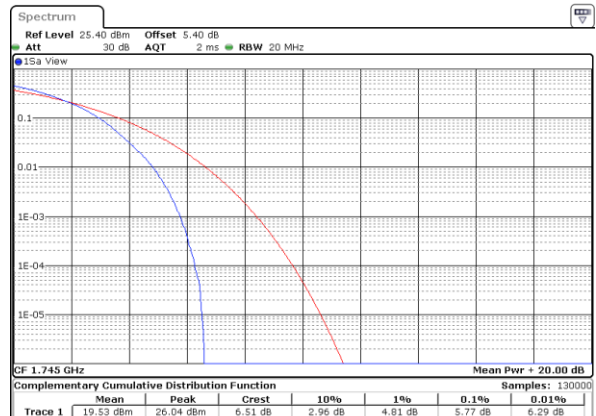
Date: 9 JUN 2020 00:00:23

Middle Channel / 1RB



Date: 9 JUN 2020 00:06:09

Middle Channel / Full RB



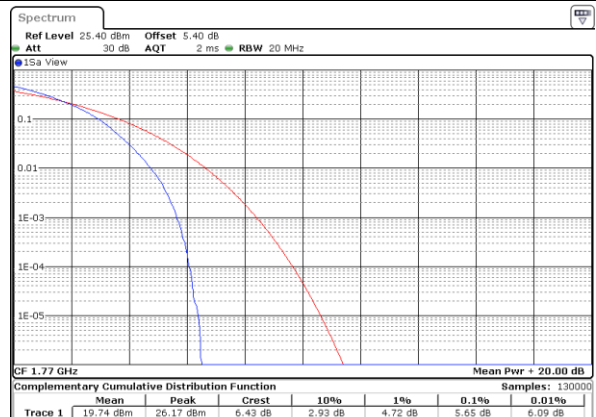
Date: 9 JUN 2020 00:09:19

Highest Channel / 1RB



Date: 9 JUN 2020 00:16:27

Highest Channel / Full RB



Date: 9 JUN 2020 00:12:23



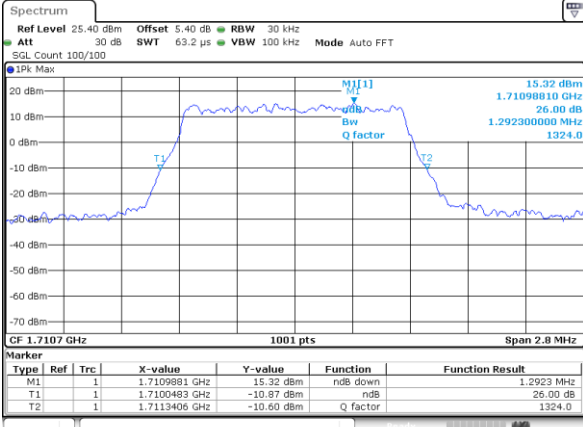
26dB Bandwidth

Mode	LTE Band 66 : 26dB BW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.29	1.28	3.03	3.01	5.00	4.93	9.73	9.77	14.39	14.51	20.06	20.06
Middle CH	1.30	1.29	3.00	3.03	4.98	4.92	9.79	9.83	14.45	14.27	20.18	19.98
Highest CH	1.24	1.26	3.03	3.02	4.96	4.99	9.85	9.71	14.36	14.21	20.22	20.14



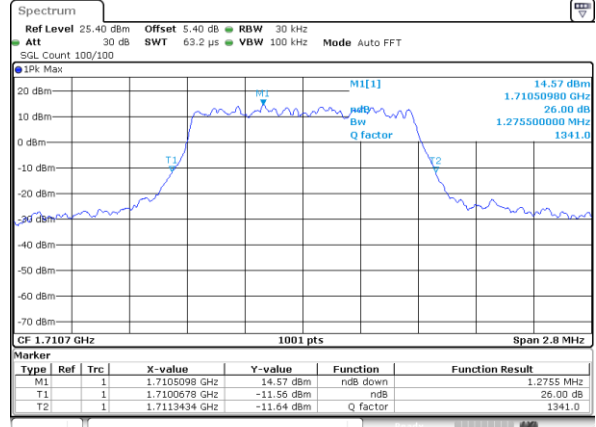
LTE Band 66

Lowest Channel / 1.4MHz / QPSK



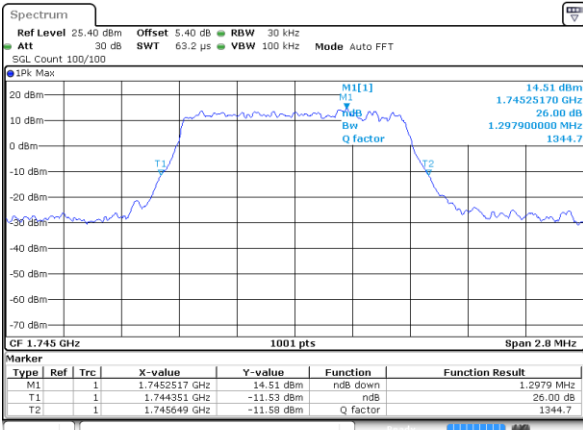
Date: 8 JUN 2020 20:41:59

Lowest Channel / 1.4MHz / 16QAM



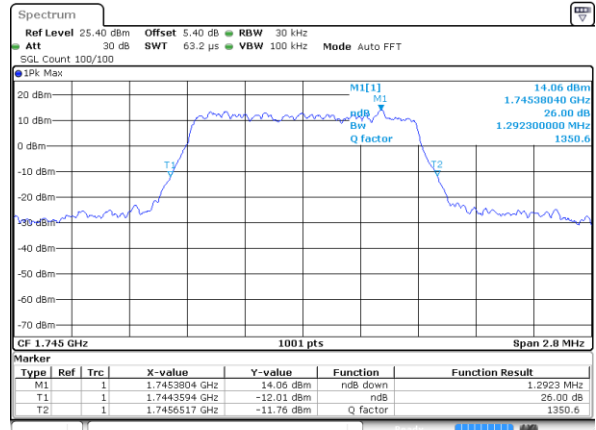
Date: 8 JUN 2020 20:51:38

Middle Channel / 1.4MHz / QPSK



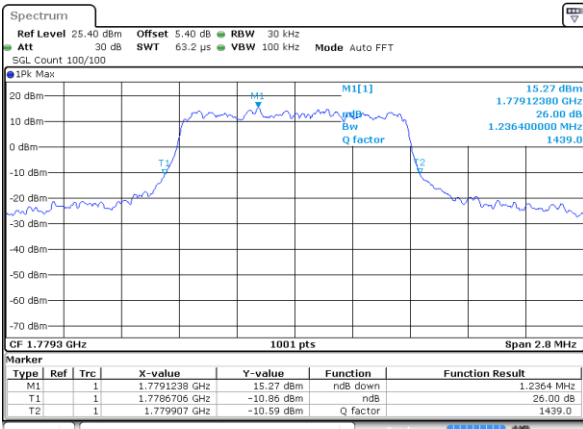
Date: 8 JUN 2020 22:30:39

Middle Channel / 1.4MHz / 16QAM



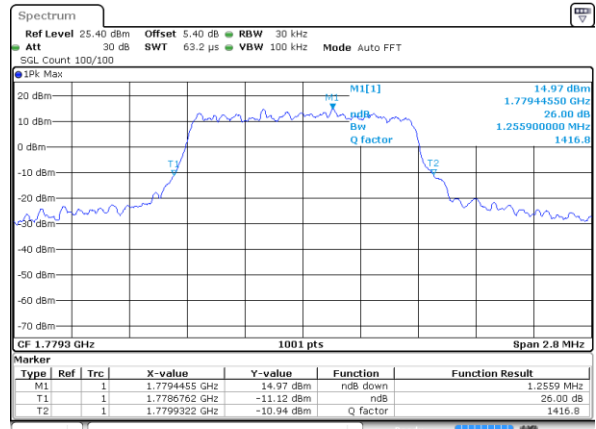
Date: 8 JUN 2020 22:30:15

Highest Channel / 1.4MHz / QPSK



Date: 8 JUN 2020 22:31:17

Highest Channel / 1.4MHz / 16QAM

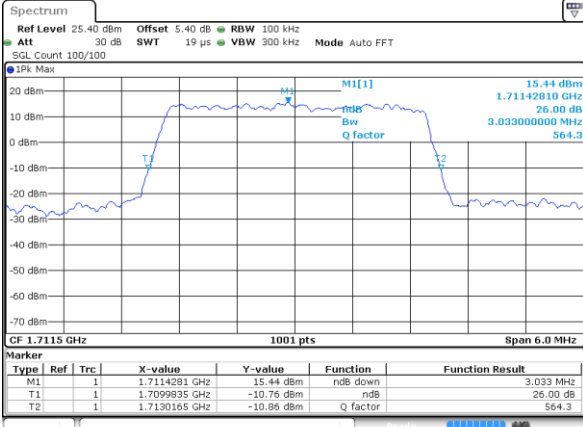


Date: 8 JUN 2020 22:32:55



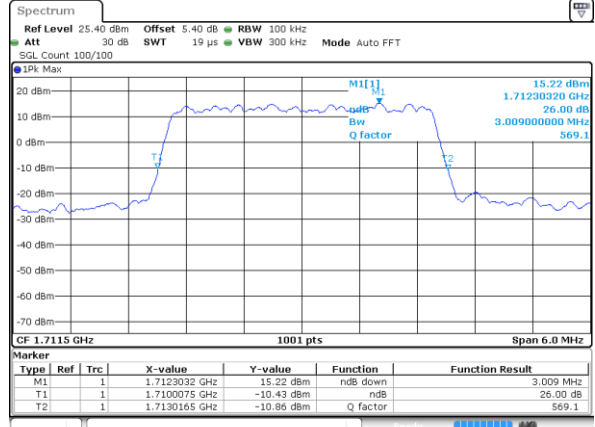
LTE Band 66

Lowest Channel / 3MHz / QPSK



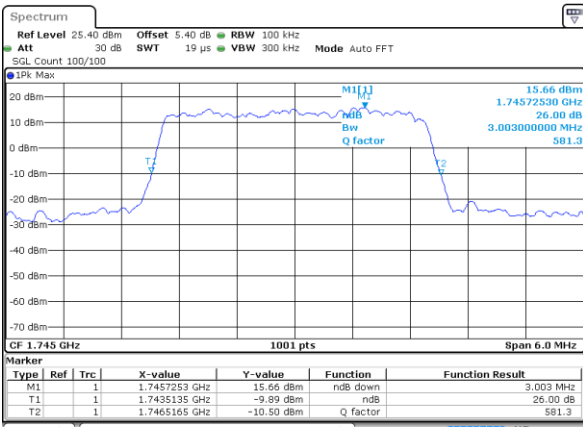
Date: 8 JUN 2020 22:43:22

Lowest Channel / 3MHz / 16QAM



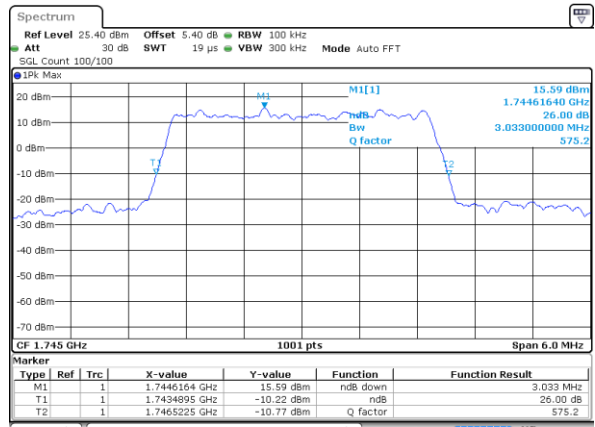
Date: 8 JUN 2020 22:44:22

Middle Channel / 3MHz / QPSK



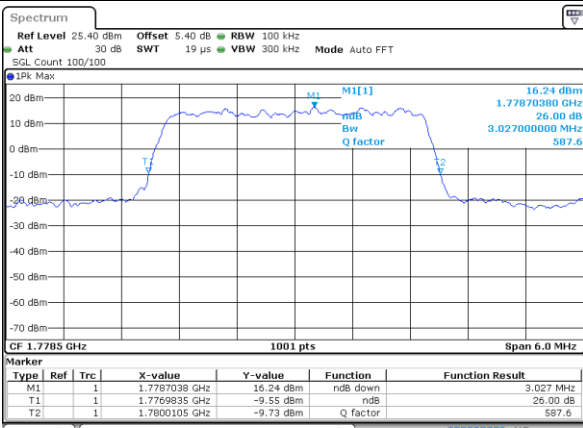
Date: 8 JUN 2020 22:53:43

Middle Channel / 3MHz / 16QAM



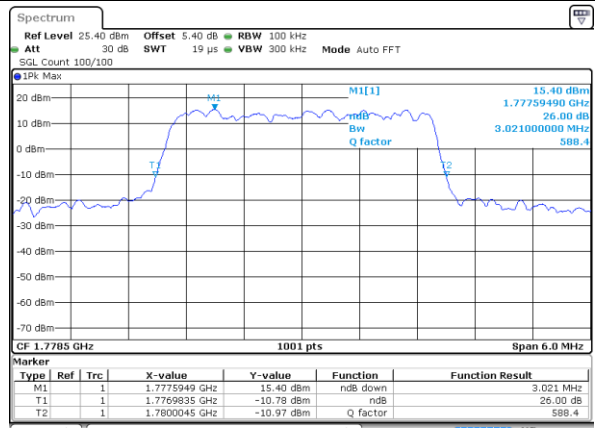
Date: 8 JUN 2020 22:53:21

Highest Channel / 3MHz / QPSK



Date: 8 JUN 2020 22:54:27

Highest Channel / 3MHz / 16QAM



Date: 8 JUN 2020 22:54:52