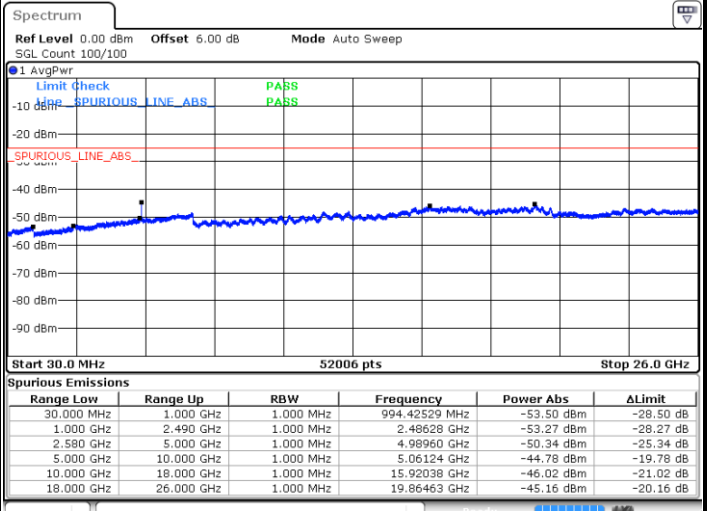
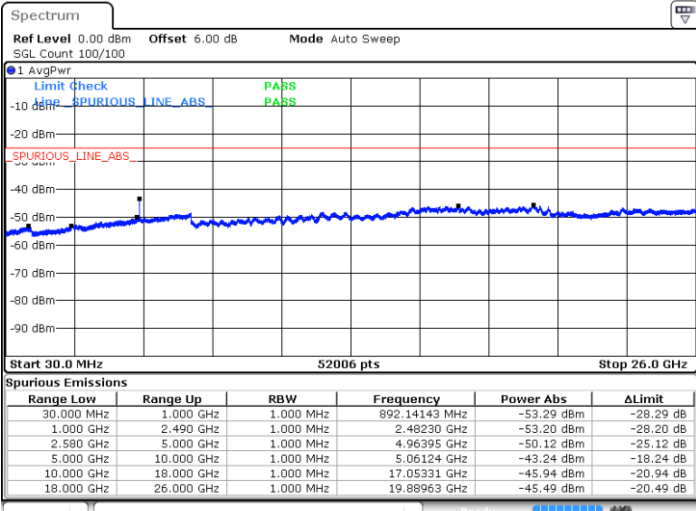




LTE Band 7 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

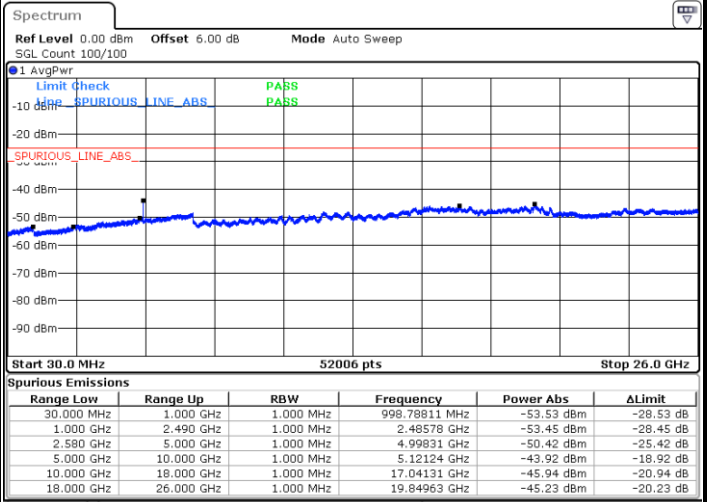
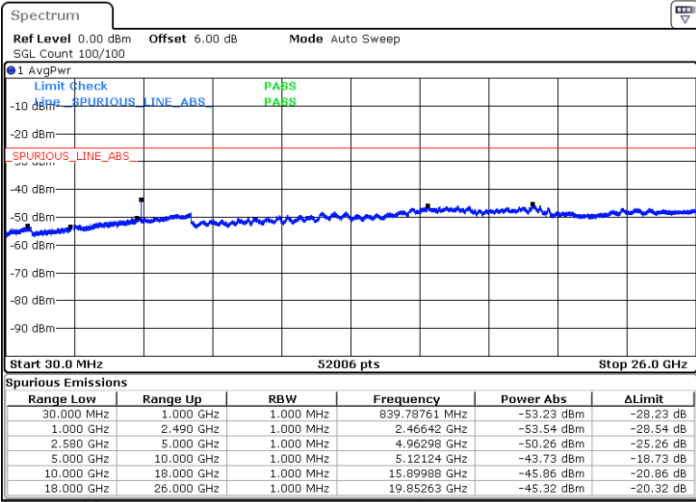


Date: 2 AUG.2020 00:47:17

Date: 2 AUG.2020 00:48:23

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 2 AUG.2020 00:48:11

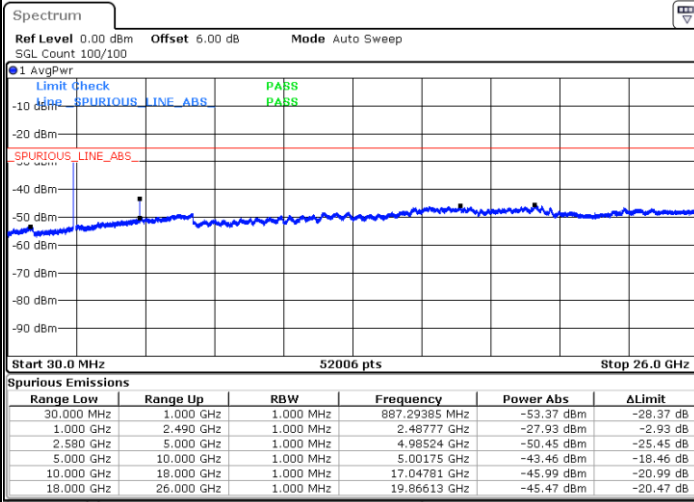
Date: 2 AUG.2020 00:49:04



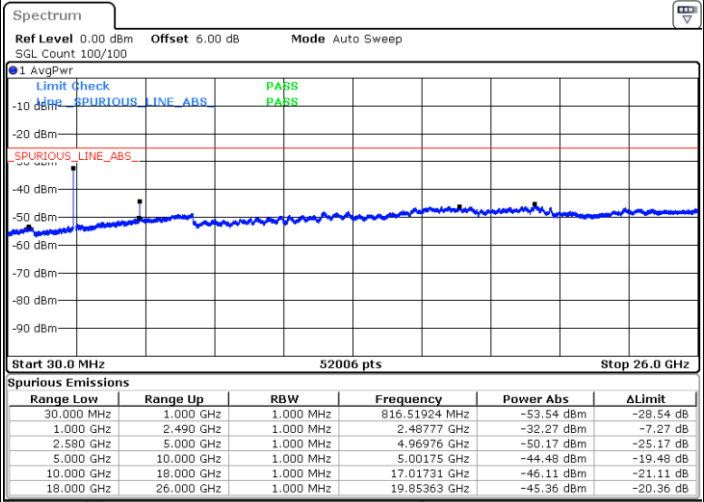
LTE Band 7 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



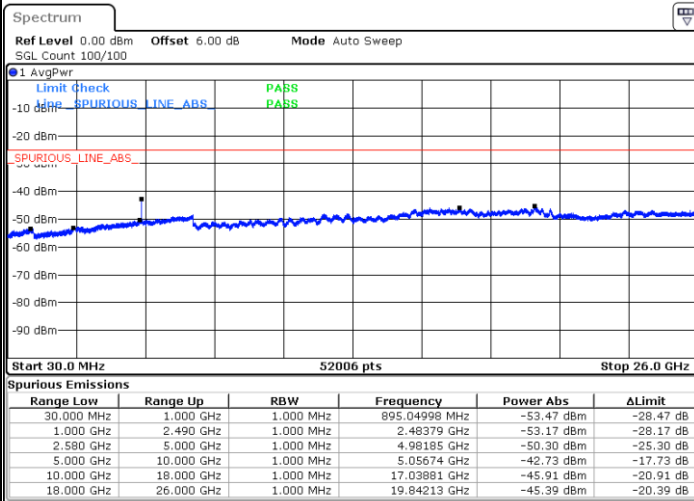
Date: 2 AUG.2020 01:01:03



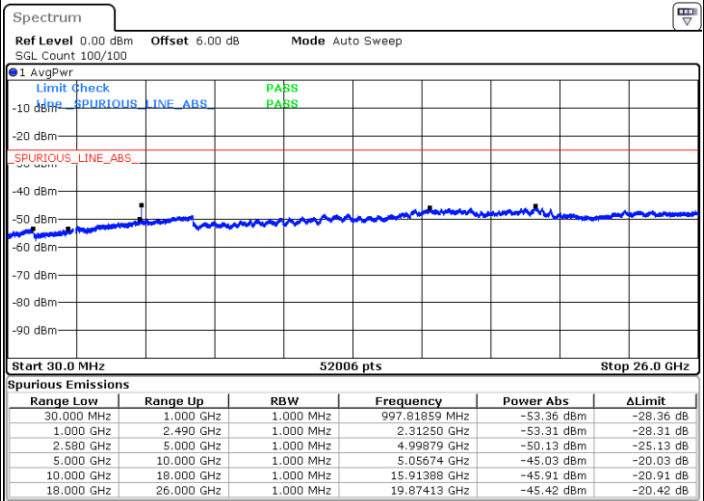
Date: 2 AUG.2020 01:01:57

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 2 AUG.2020 01:03:45

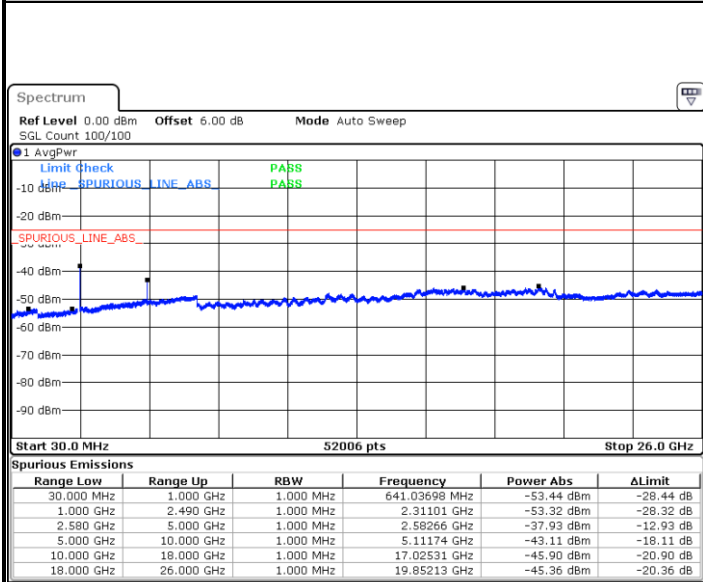


Date: 2 AUG.2020 01:02:51



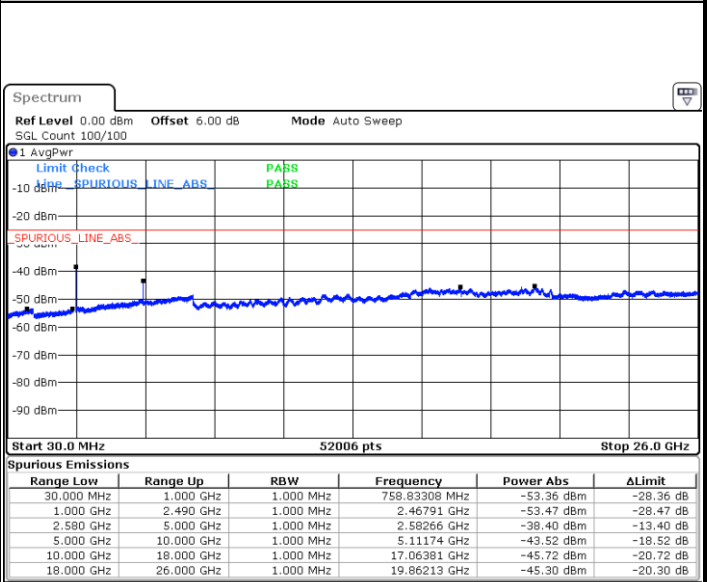
LTE Band7 / 15MHz

Highest Channel / QPSK



Date: 2 AUG.2020 01:04:38

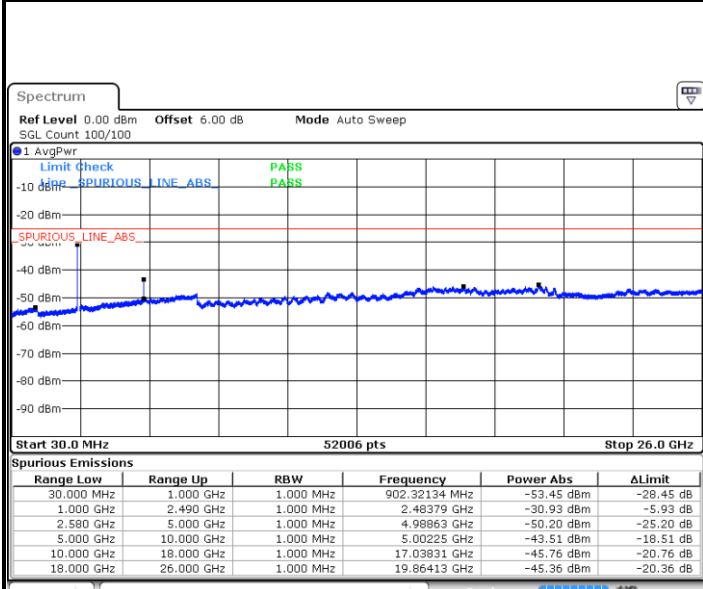
Highest Channel / 16QAM



Date: 2 AUG.2020 01:05:32

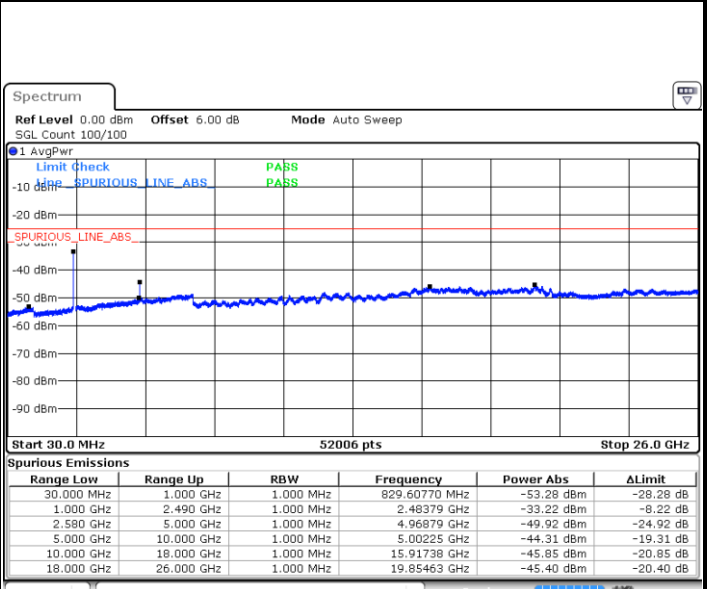
LTE Band 7 / 20MHz

Lowest Channel / QPSK



Date: 2 AUG.2020 01:17:31

Lowest Channel / 16QAM



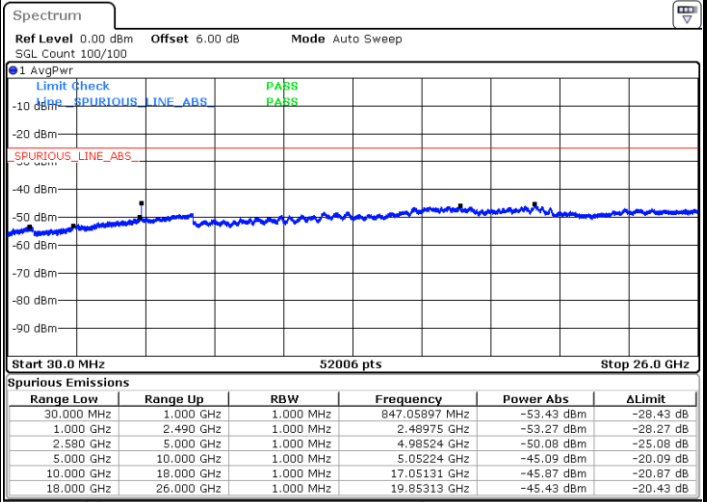
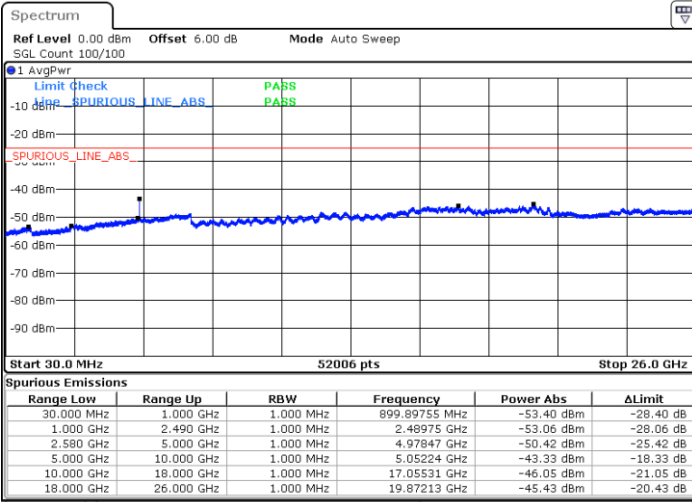
Date: 2 AUG.2020 01:18:25



LTE Band 7 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

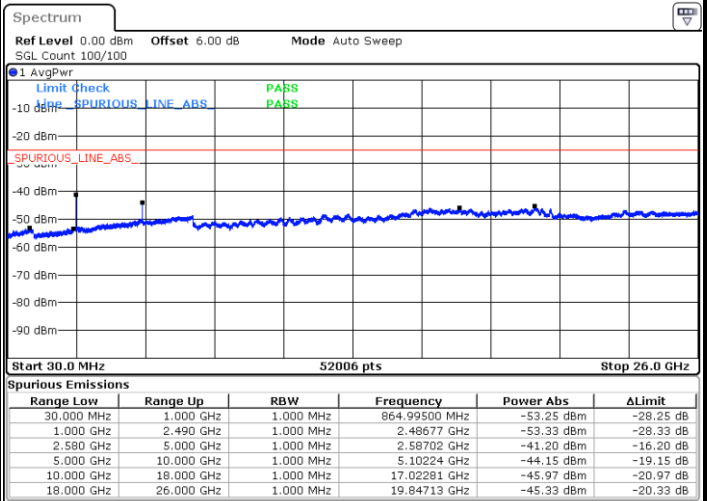
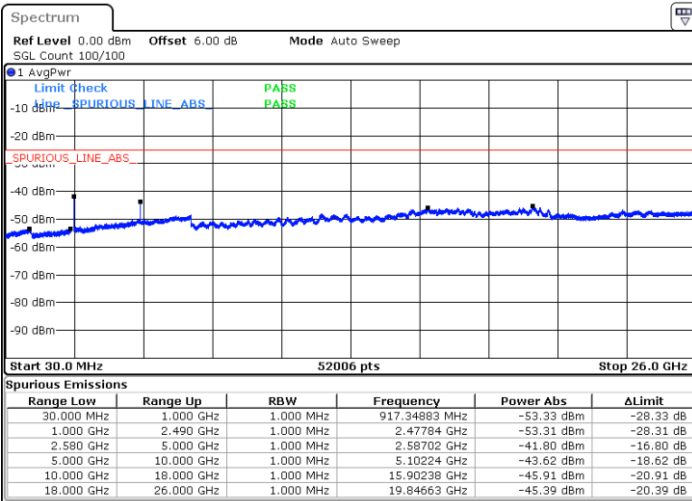


Date: 2 AUG.2020 01:20:12

Date: 2 AUG.2020 01:19:18

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 2 AUG.2020 01:21:06

Date: 2 AUG.2020 01:21:59



### Frequency Stability

Test Conditions		LTE Band 7 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0003	PASS
40	Normal Voltage	0.0008	
30	Normal Voltage	0.0005	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0008	
0	Normal Voltage	0.0007	
-10	Normal Voltage	0.0006	
-20	Normal Voltage	0.0002	
-30	Normal Voltage	0.0007	
20	Maximum Voltage	0.0003	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0009	

**Note:**

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.2 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



# LTE Band 12

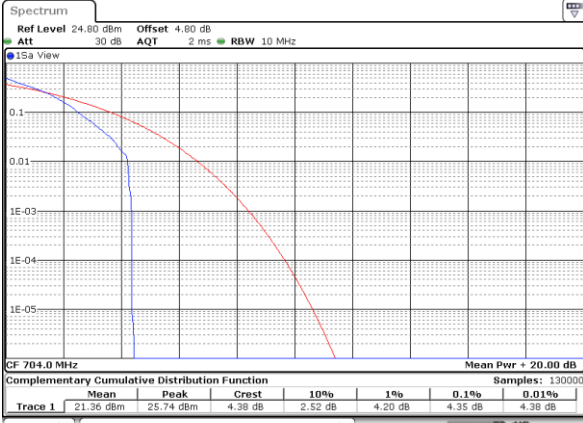
## Peak-to-Average Ratio

Mode	LTE Band 12 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.35	5.48	5.16	6.14	<b>PASS</b>
Middle CH	5.10	4.93	6.09	6.00	
Highest CH	5.07	4.90	5.62	5.83	



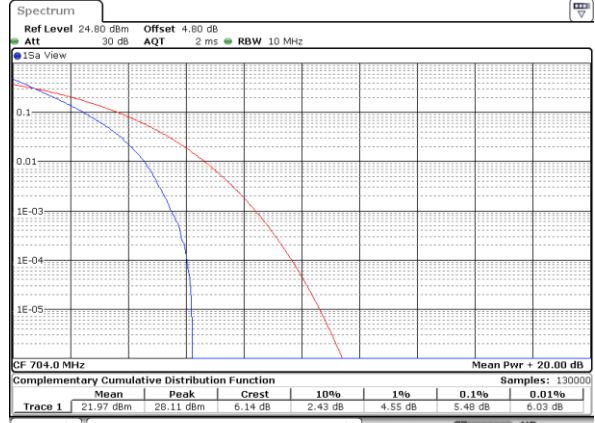
LTE Band 12 / 10MHz / QPSK

Lowest Channel / 1RB



Date: 2 AUG 2020 04:03:20

Lowest Channel / Full RB



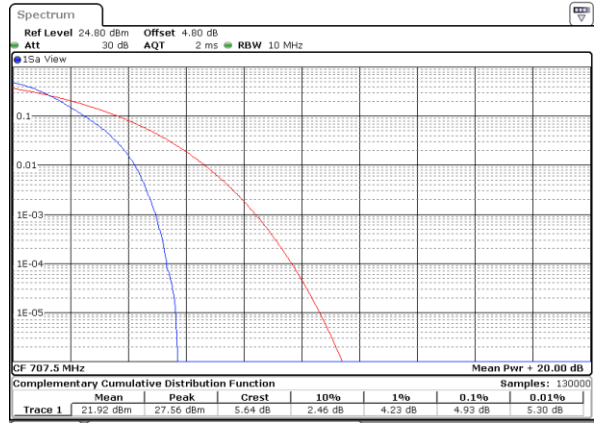
Date: 2 AUG 2020 04:03:29

Middle Channel / 1RB



Date: 2 AUG 2020 04:04:05

Middle Channel / Full RB



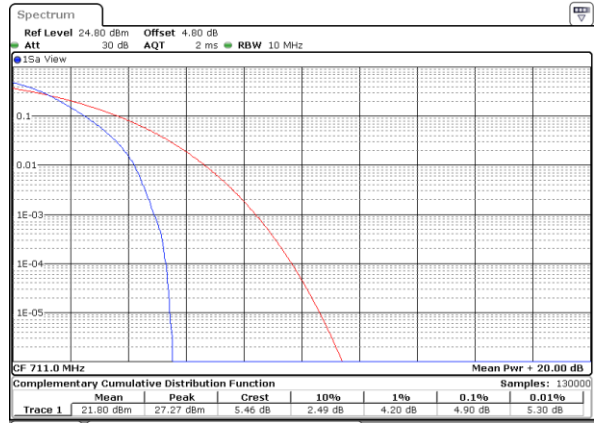
Date: 2 AUG 2020 04:03:56

Highest Channel / 1RB



Date: 2 AUG 2020 04:04:32

Highest Channel / Full RB

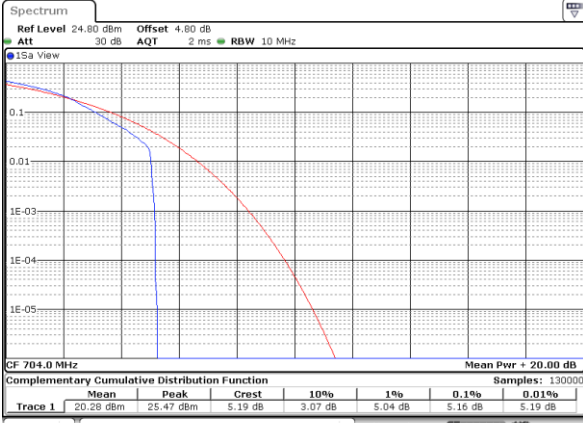


Date: 2 AUG 2020 04:04:40



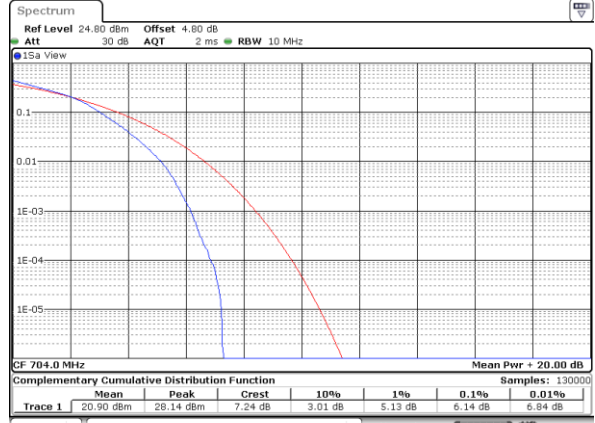
LTE Band 12 / 10MHz / 16QAM

Lowest Channel / 1RB



Date: 2 AUG 2020 04:03:11

Lowest Channel / Full RB



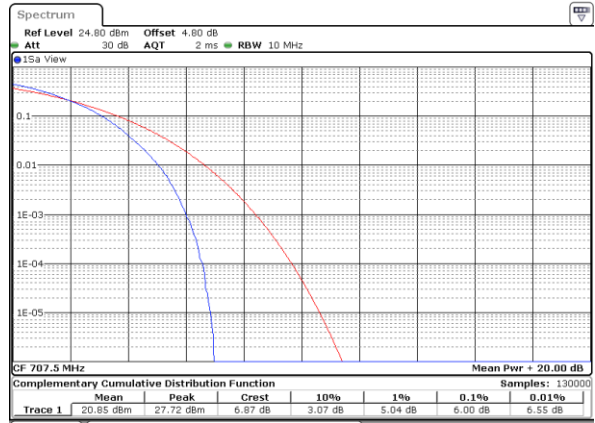
Date: 2 AUG 2020 04:03:38

Middle Channel / 1RB



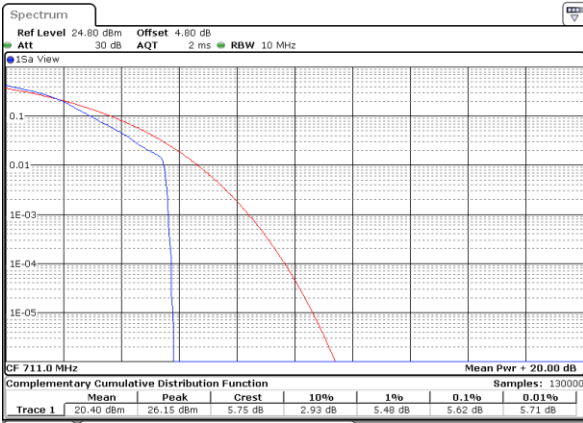
Date: 2 AUG 2020 04:04:14

Middle Channel / Full RB



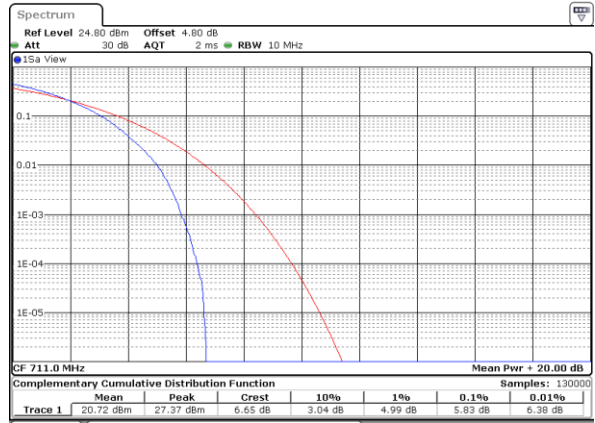
Date: 2 AUG 2020 04:03:47

Highest Channel / 1RB



Date: 2 AUG 2020 04:04:23

Highest Channel / Full RB



Date: 2 AUG 2020 04:04:49





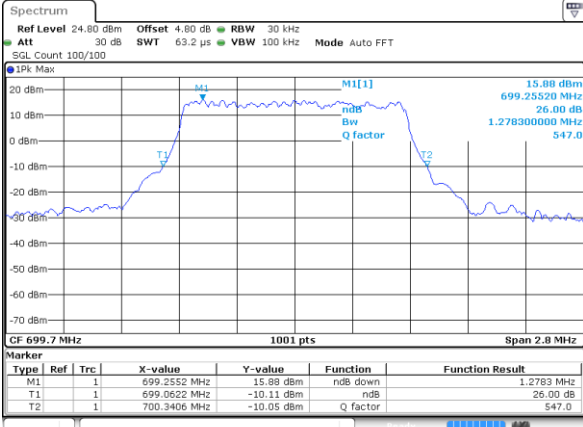
**26dB Bandwidth**

Mode	LTE Band 12 : 26dB BW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.28	1.28	2.97	2.97	4.95	4.91	9.89	9.65	-	-	-	-
Middle CH	1.28	1.26	3.01	3.03	4.89	4.91	9.77	9.89	-	-	-	-
Highest CH	1.26	1.26	3.02	2.98	5.01	4.88	9.79	9.83	-	-	-	-



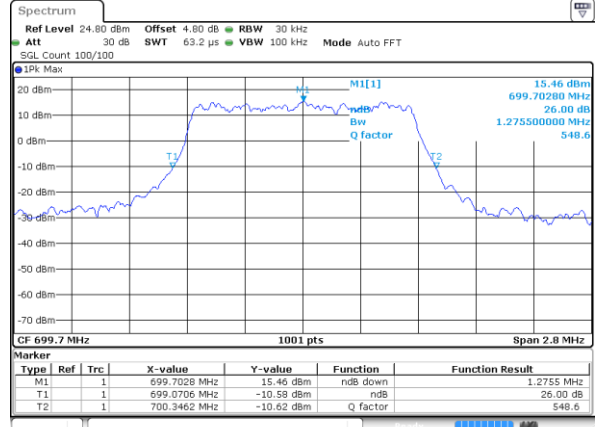
LTE Band 12

Lowest Channel / 1.4MHz / QPSK



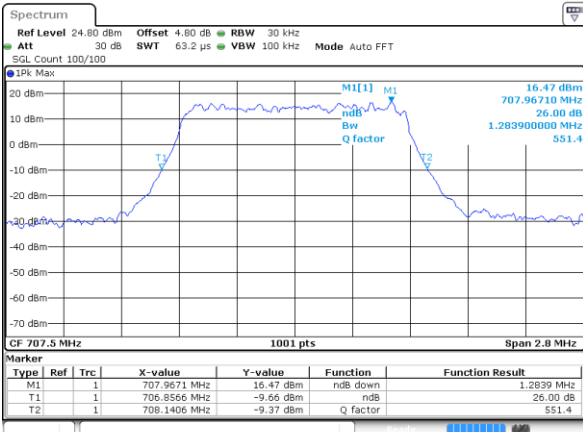
Date: 2 AUG 2020 02:25:40

Lowest Channel / 1.4MHz / 16QAM



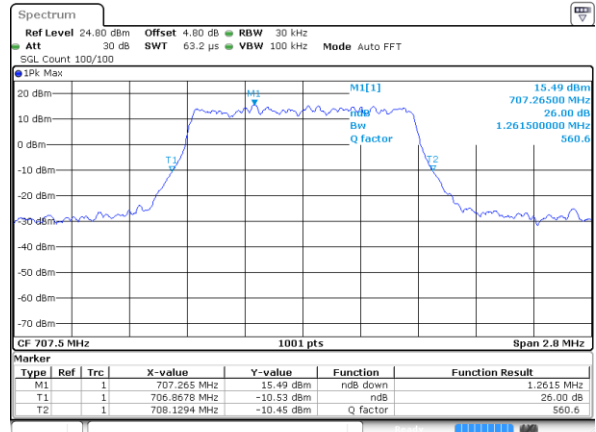
Date: 2 AUG 2020 02:25:30

Middle Channel / 1.4MHz / QPSK



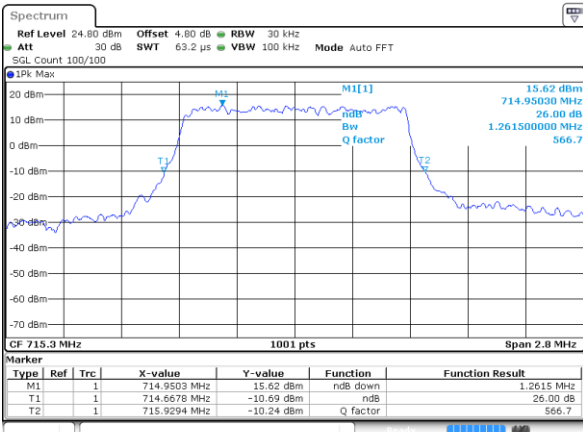
Date: 2 AUG 2020 02:25:10

Middle Channel / 1.4MHz / 16QAM



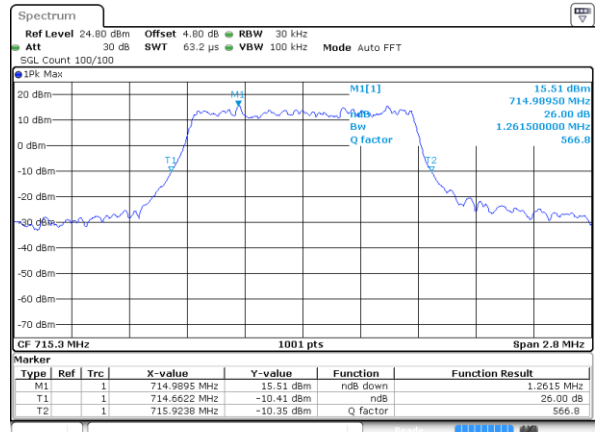
Date: 2 AUG 2020 02:25:20

Highest Channel / 1.4MHz / QPSK



Date: 2 AUG 2020 02:25:00

Highest Channel / 1.4MHz / 16QAM

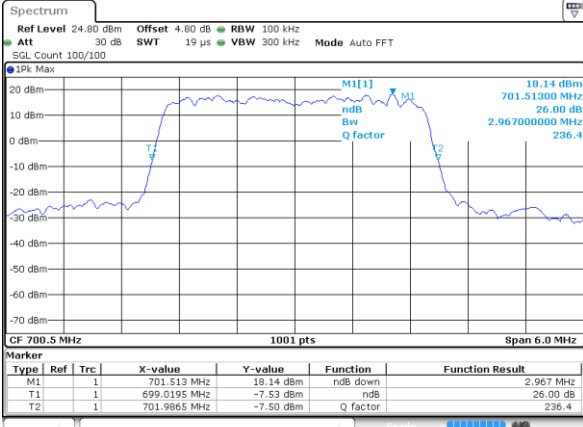


Date: 2 AUG 2020 02:24:50



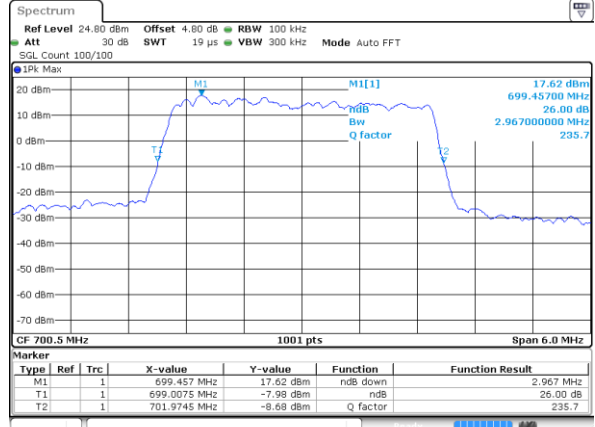
LTE Band 12

Lowest Channel / 3MHz / QPSK



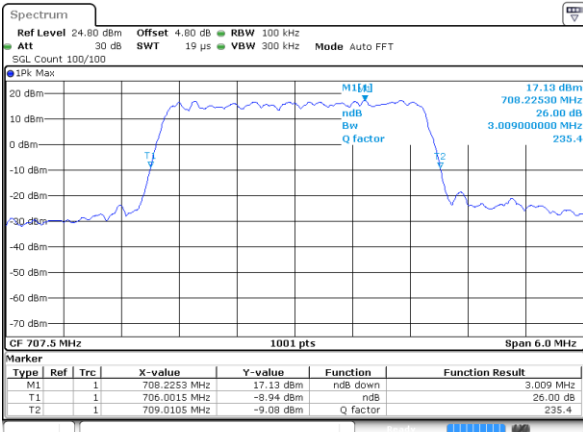
Date: 2 AUG 2020 02:42:04

Lowest Channel / 3MHz / 16QAM



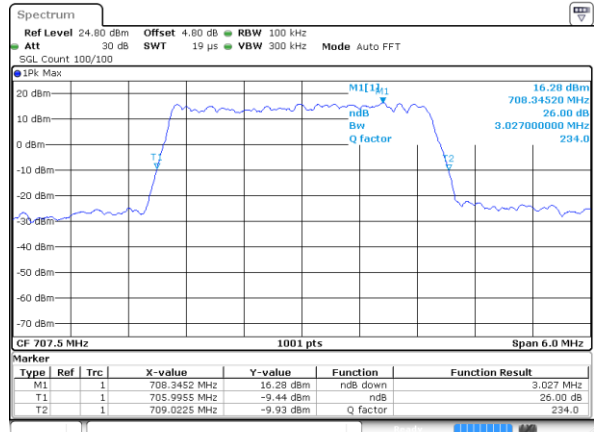
Date: 2 AUG 2020 02:41:54

Middle Channel / 3MHz / QPSK



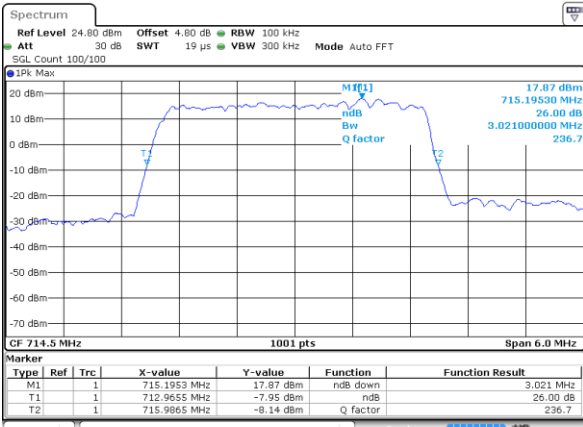
Date: 2 AUG 2020 02:41:34

Middle Channel / 3MHz / 16QAM



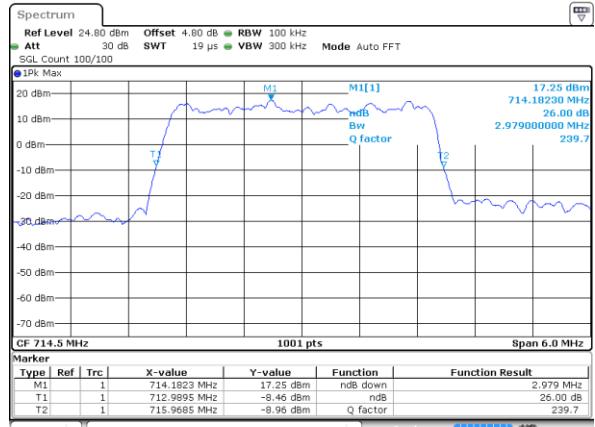
Date: 2 AUG 2020 02:41:44

Highest Channel / 3MHz / QPSK



Date: 2 AUG 2020 02:41:24

Highest Channel / 3MHz / 16QAM

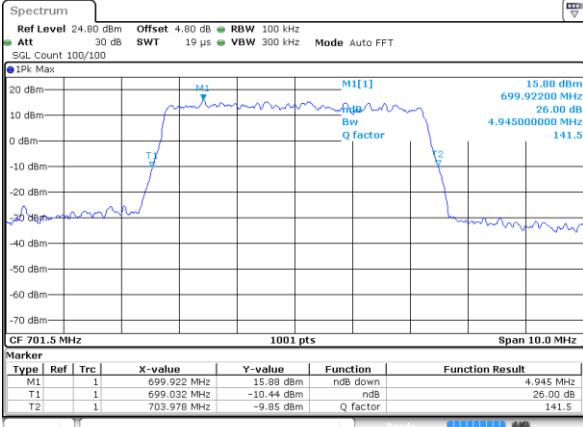


Date: 2 AUG 2020 02:41:14



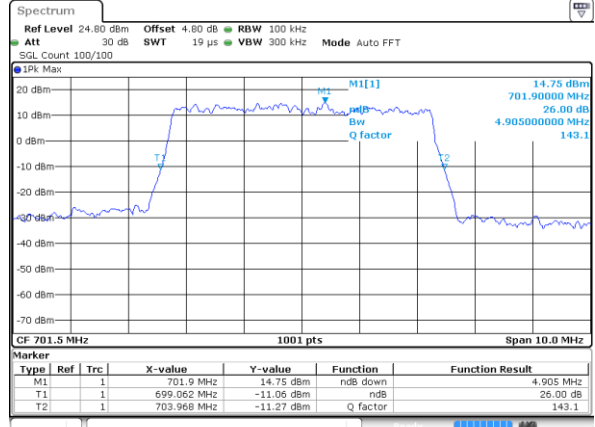
LTE Band 12

Lowest Channel / 5MHz / QPSK



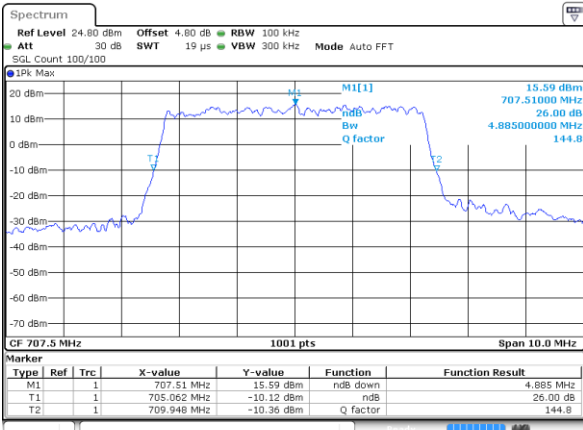
Date: 2 AUG 2020 02:58:28

Lowest Channel / 5MHz / 16QAM



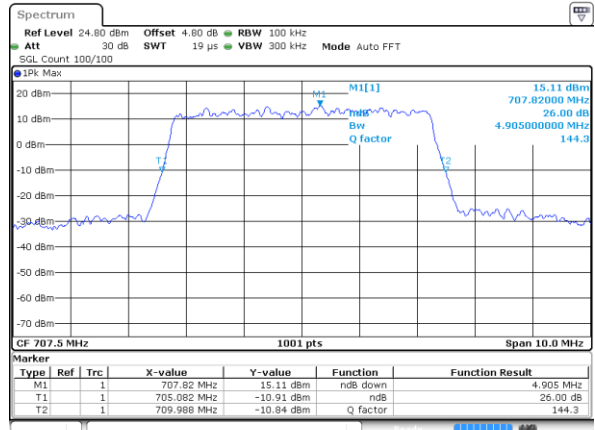
Date: 2 AUG 2020 02:58:18

Middle Channel / 5MHz / QPSK



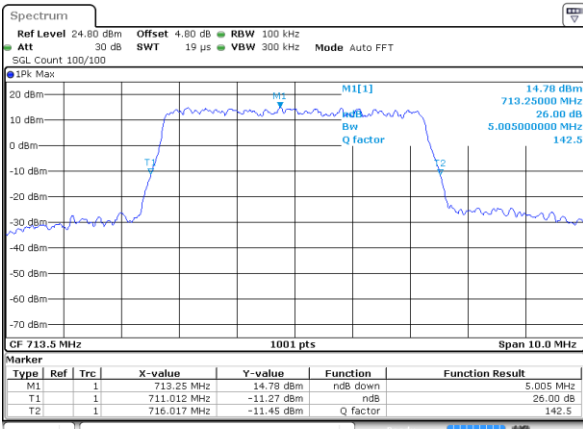
Date: 2 AUG 2020 02:57:58

Middle Channel / 5MHz / 16QAM



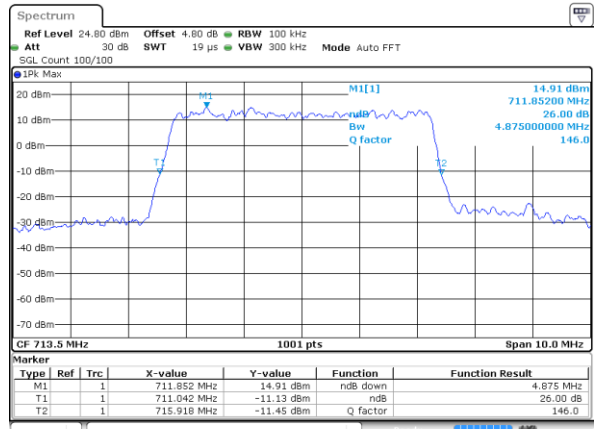
Date: 2 AUG 2020 02:58:08

Highest Channel / 5MHz / QPSK



Date: 2 AUG 2020 02:57:48

Highest Channel / 5MHz / 16QAM

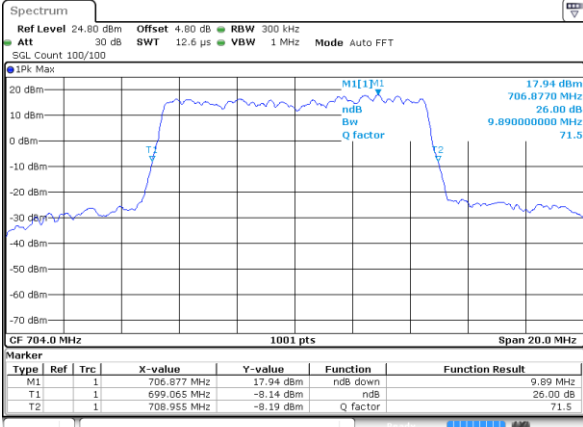


Date: 2 AUG 2020 02:57:38



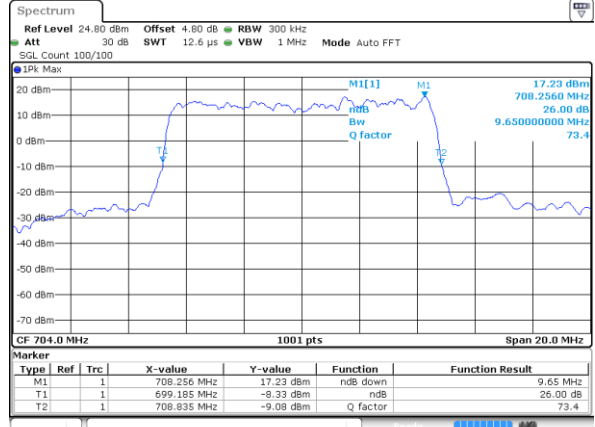
LTE Band 12

Lowest Channel / 10MHz / QPSK



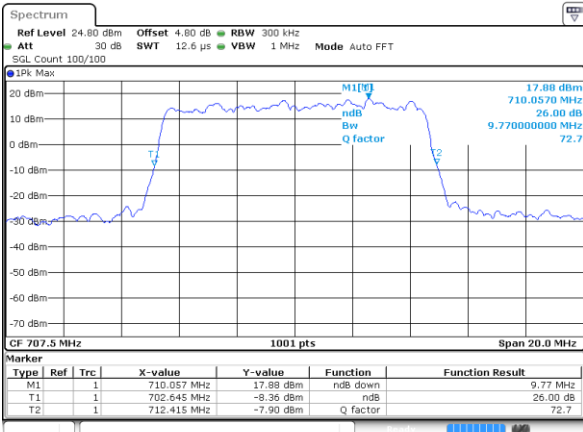
Date: 2 AUG 2020 03:14:52

Lowest Channel / 10MHz / 16QAM



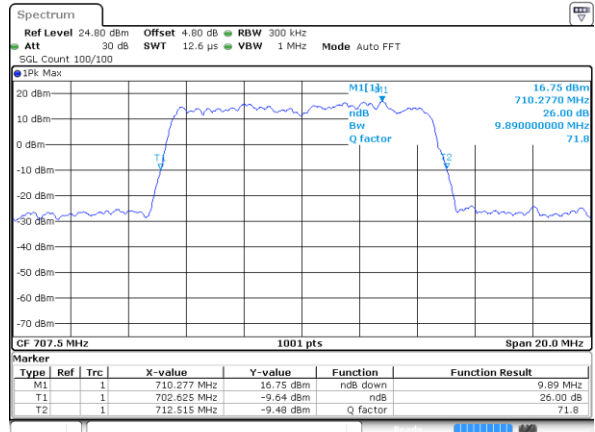
Date: 2 AUG 2020 03:14:42

Middle Channel / 10MHz / QPSK



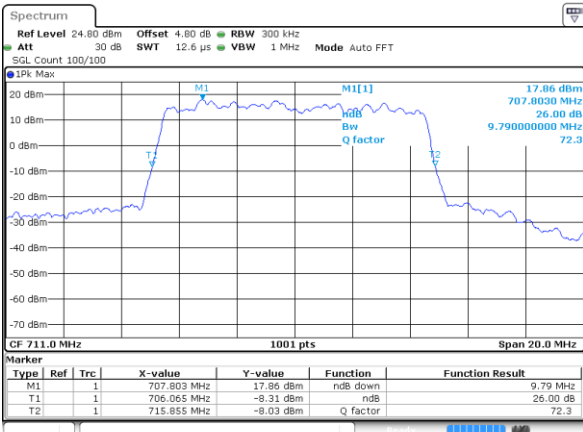
Date: 2 AUG 2020 03:14:22

Middle Channel / 10MHz / 16QAM



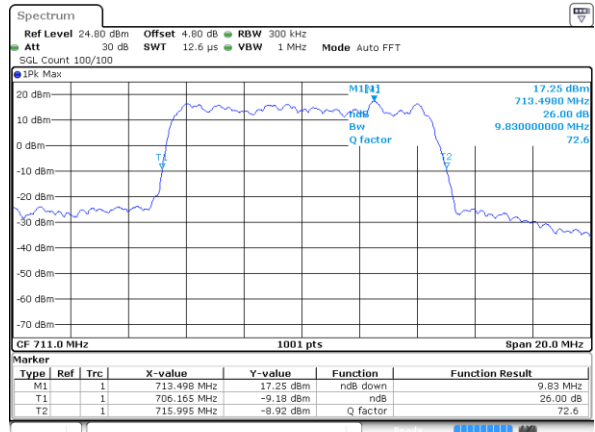
Date: 2 AUG 2020 03:14:22

Highest Channel / 10MHz / QPSK



Date: 2 AUG 2020 03:14:12

Highest Channel / 10MHz / 16QAM



Date: 2 AUG 2020 03:14:02



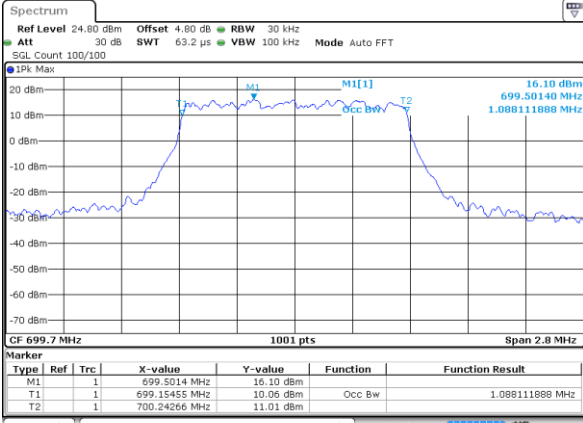
**Occupied Bandwidth**

Mode	LTE Band 12 : 99%OBW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.09	1.10	2.70	2.71	4.47	4.47	9.03	9.01	-	-	-	-
Middle CH	1.09	1.09	2.71	2.71	4.49	4.46	9.01	8.99	-	-	-	-
Highest CH	1.09	1.08	2.73	2.73	4.52	4.49	9.01	8.99	-	-	-	-



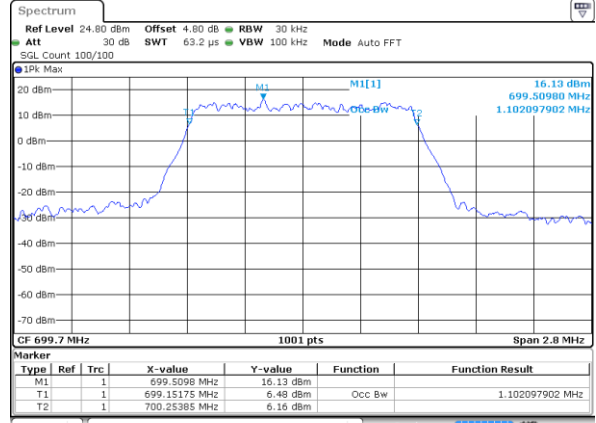
LTE Band 12

Lowest Channel / 1.4MHz / QPSK



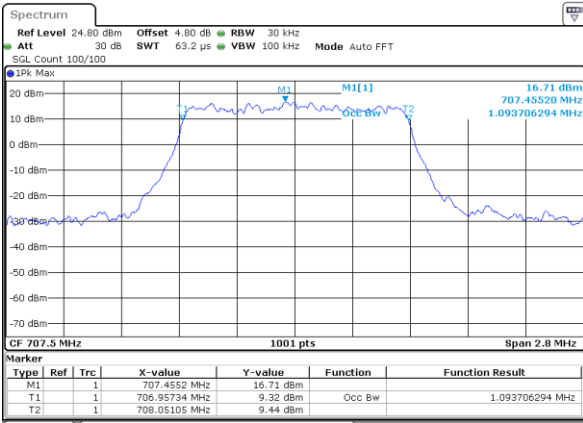
Date: 2 AUG 2020 02:23:50

Lowest Channel / 1.4MHz / 16QAM



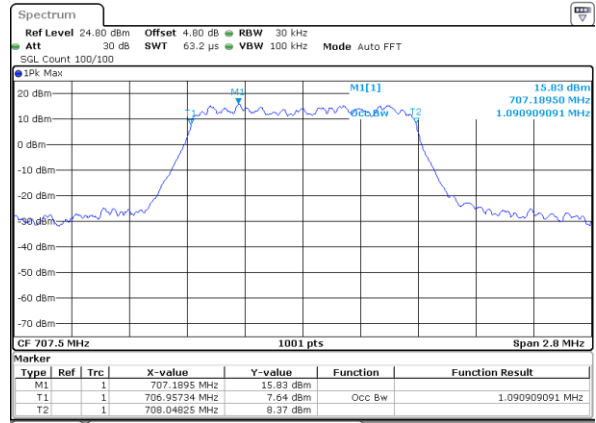
Date: 2 AUG 2020 02:24:00

Middle Channel / 1.4MHz / QPSK



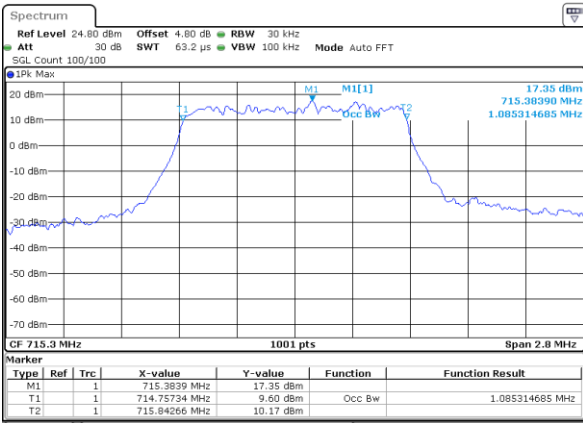
Date: 2 AUG 2020 02:24:20

Middle Channel / 1.4MHz / 16QAM



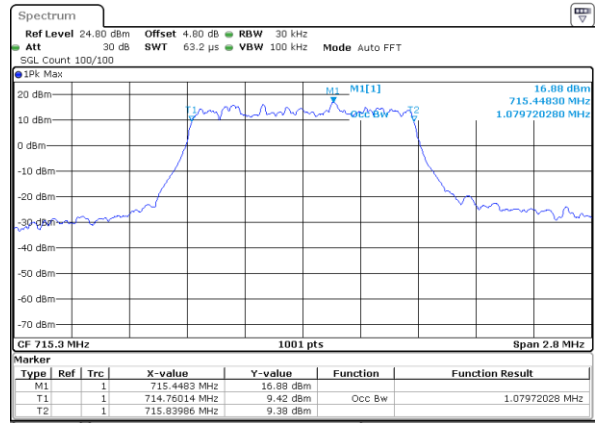
Date: 2 AUG 2020 02:24:10

Highest Channel / 1.4MHz / QPSK



Date: 2 AUG 2020 02:24:30

Highest Channel / 1.4MHz / 16QAM

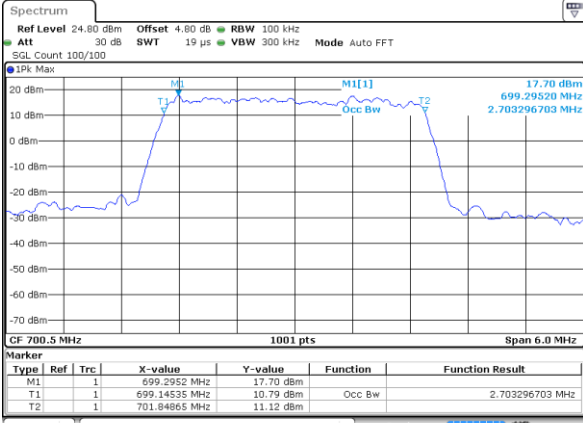


Date: 2 AUG 2020 02:24:40



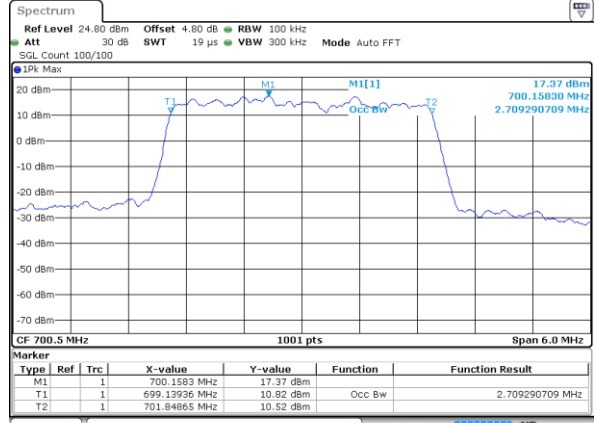
LTE Band 12

Lowest Channel / 3MHz / QPSK



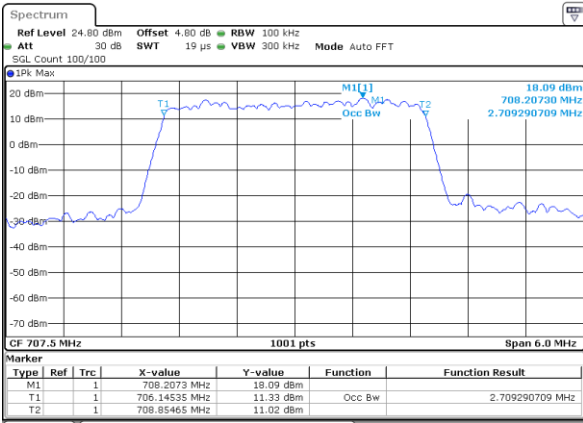
Date: 2 AUG 2020 02:40:14

Lowest Channel / 3MHz / 16QAM



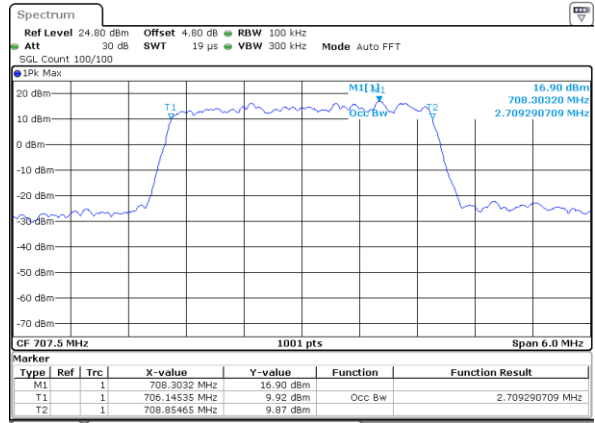
Date: 2 AUG 2020 02:40:24

Middle Channel / 3MHz / QPSK



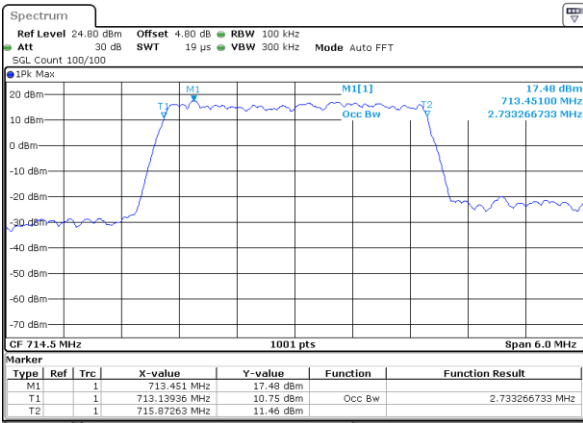
Date: 2 AUG 2020 02:40:44

Middle Channel / 3MHz / 16QAM



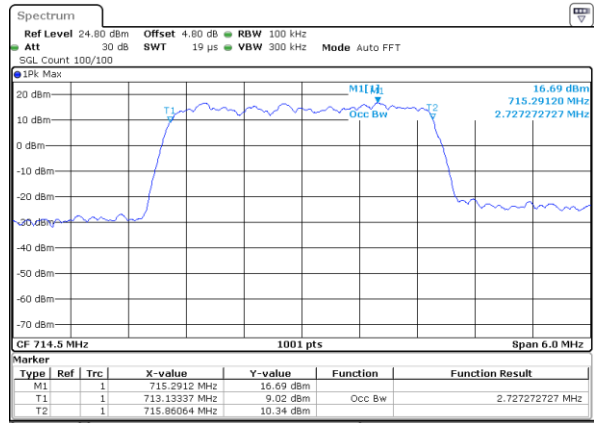
Date: 2 AUG 2020 02:40:34

Highest Channel / 3MHz / QPSK



Date: 2 AUG 2020 02:40:54

Highest Channel / 3MHz / 16QAM



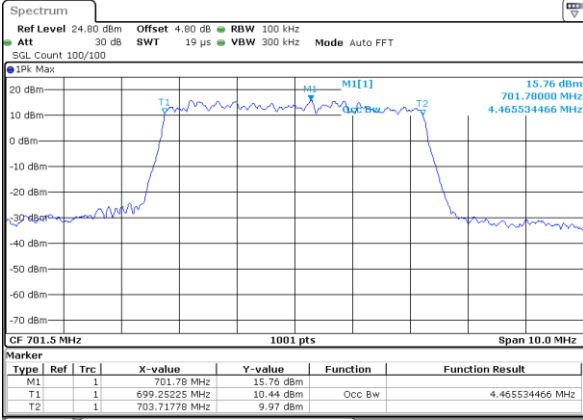
Date: 2 AUG 2020 02:41:04





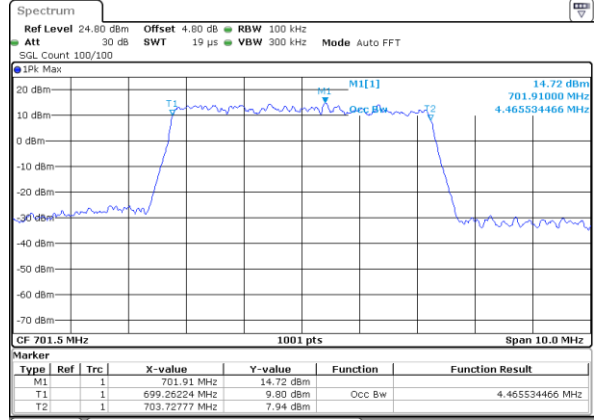
LTE Band 12

Lowest Channel / 5MHz / QPSK



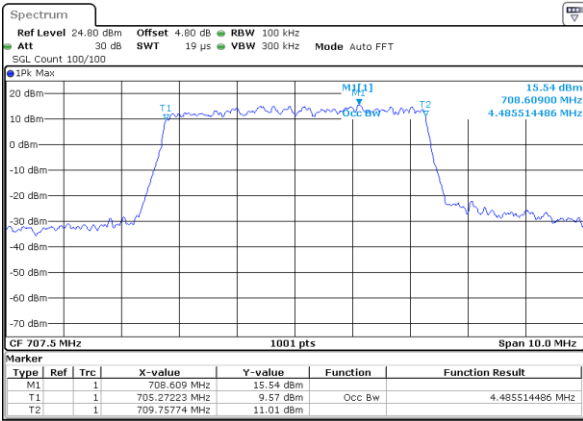
Date: 2 AUG 2020 02:56:38

Lowest Channel / 5MHz / 16QAM



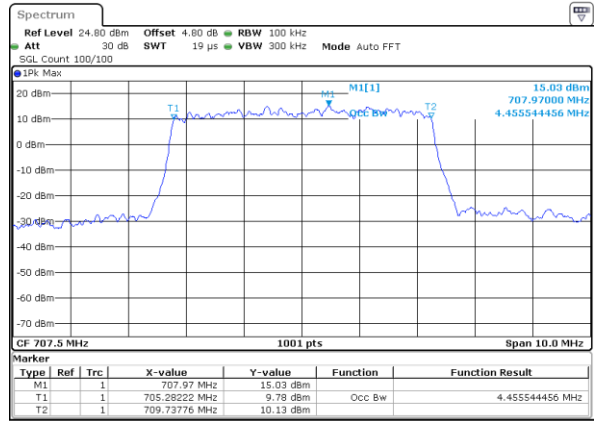
Date: 2 AUG 2020 02:56:48

Middle Channel / 5MHz / QPSK



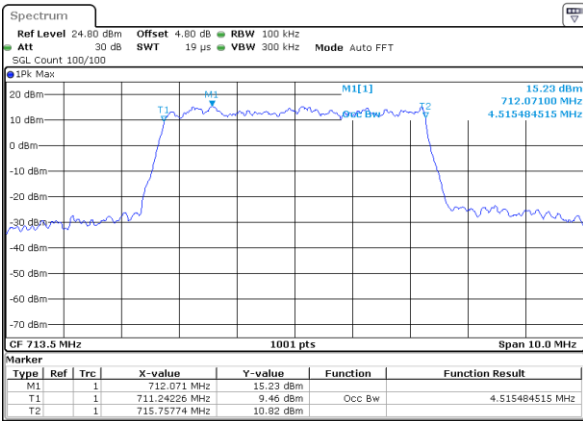
Date: 2 AUG 2020 02:57:08

Middle Channel / 5MHz / 16QAM



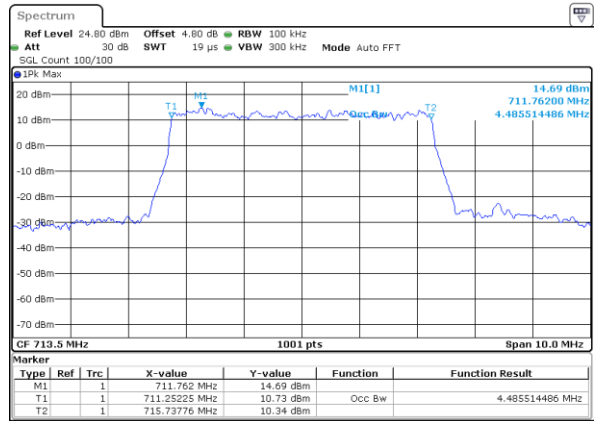
Date: 2 AUG 2020 02:56:58

Highest Channel / 5MHz / QPSK



Date: 2 AUG 2020 02:57:18

Highest Channel / 5MHz / 16QAM

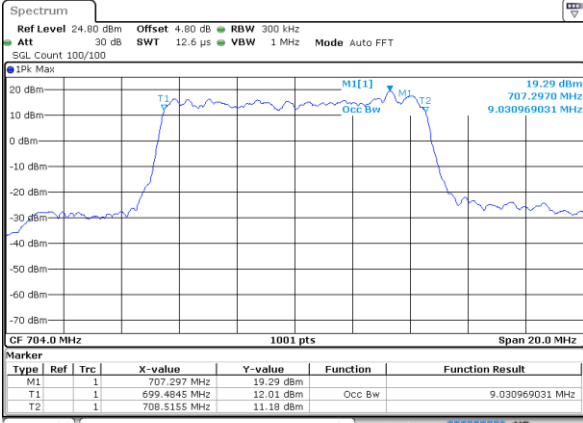


Date: 2 AUG 2020 02:57:28



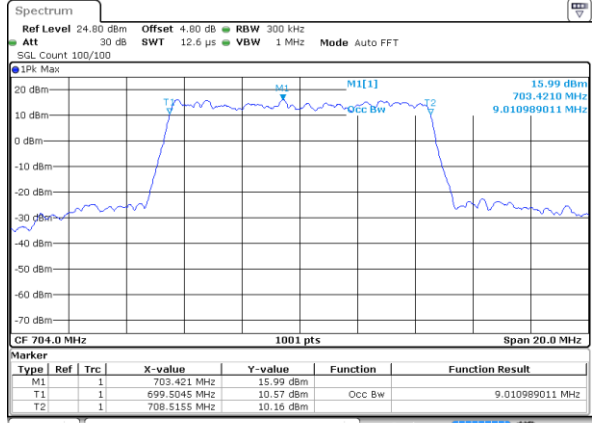
LTE Band 12

Lowest Channel / 10MHz / QPSK



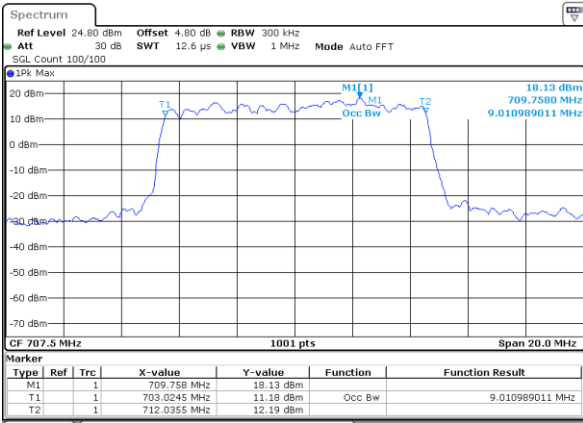
Date: 2 AUG 2020 03:13:02

Lowest Channel / 10MHz / 16QAM



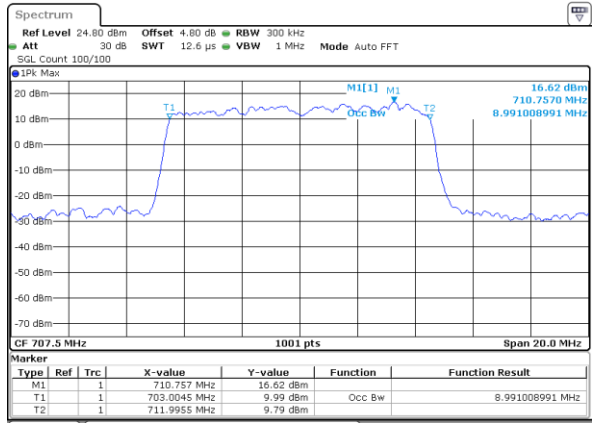
Date: 2 AUG 2020 03:13:12

Middle Channel / 10MHz / QPSK



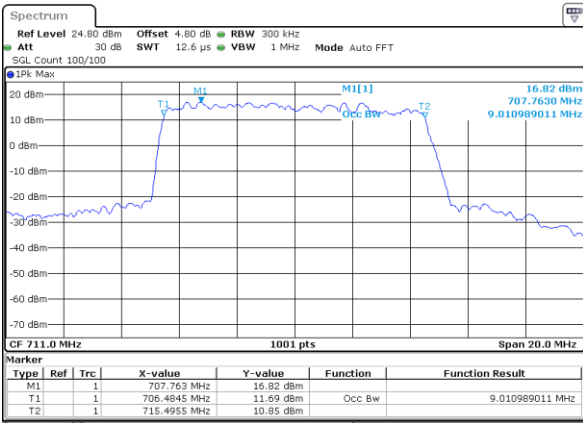
Date: 2 AUG 2020 03:13:32

Middle Channel / 10MHz / 16QAM



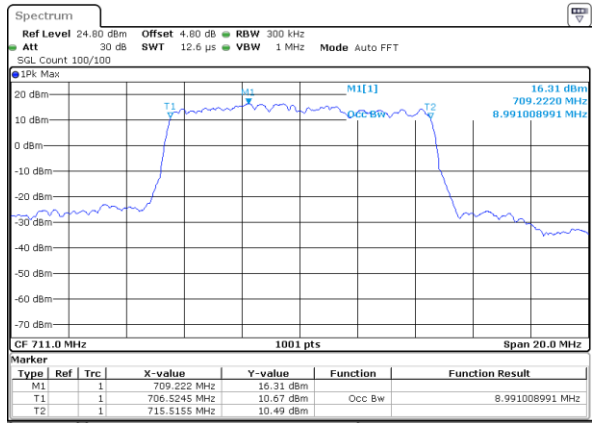
Date: 2 AUG 2020 03:13:22

Highest Channel / 10MHz / QPSK



Date: 2 AUG 2020 03:13:42

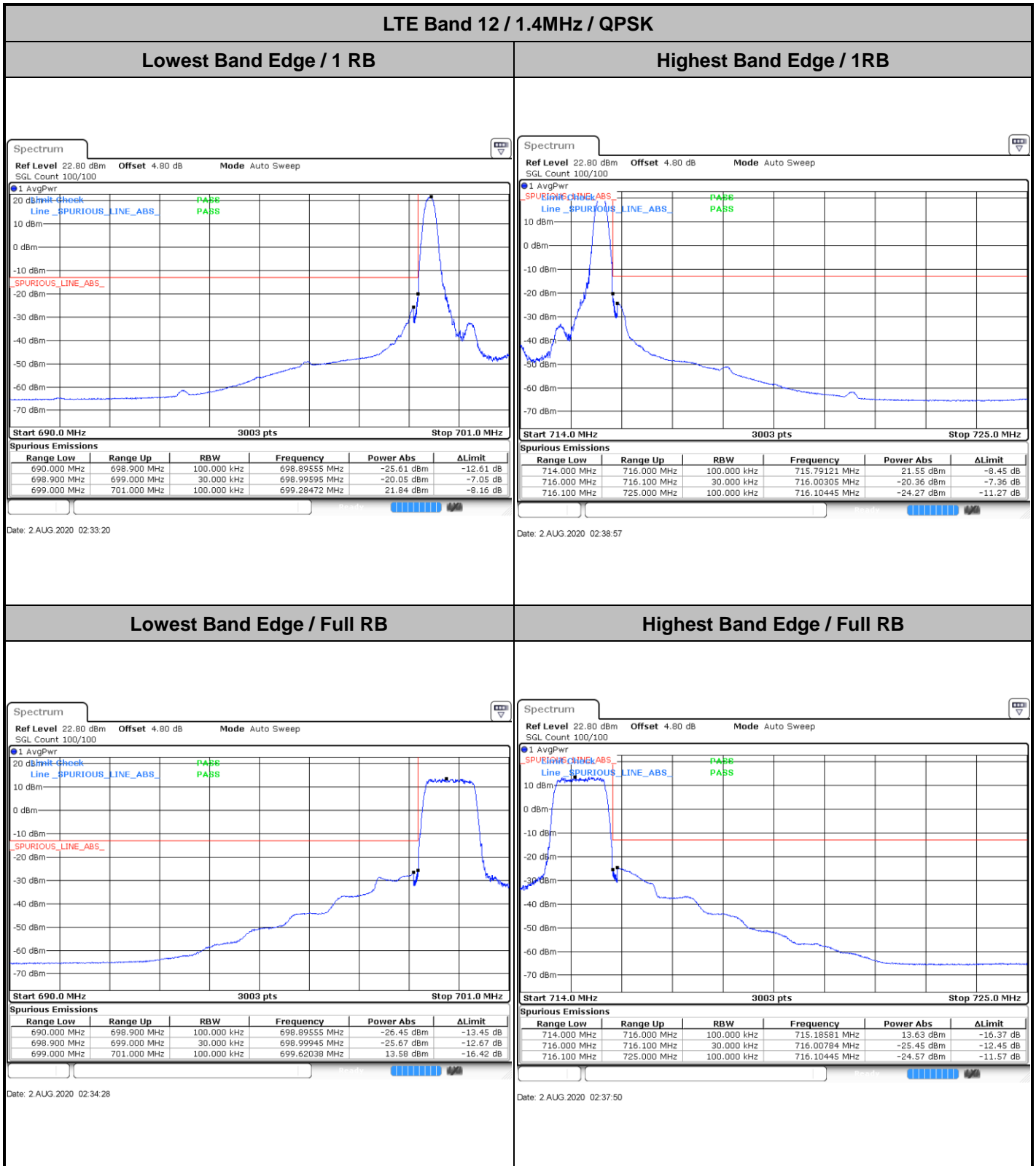
Highest Channel / 10MHz / 16QAM



Date: 2 AUG 2020 03:13:52



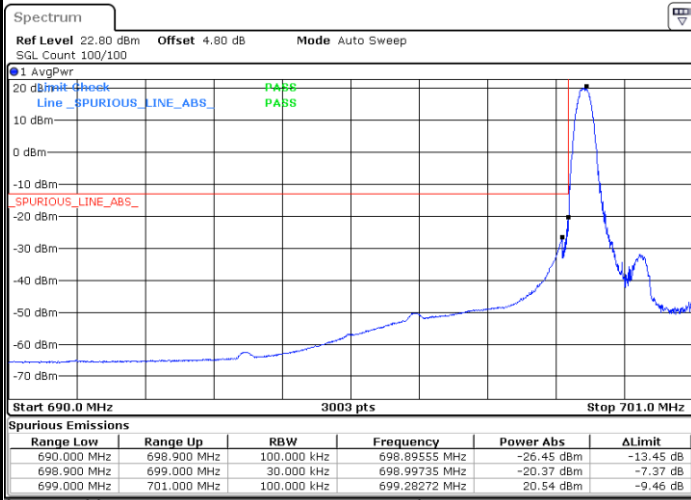
# Conducted Band Edge





LTE Band 12 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



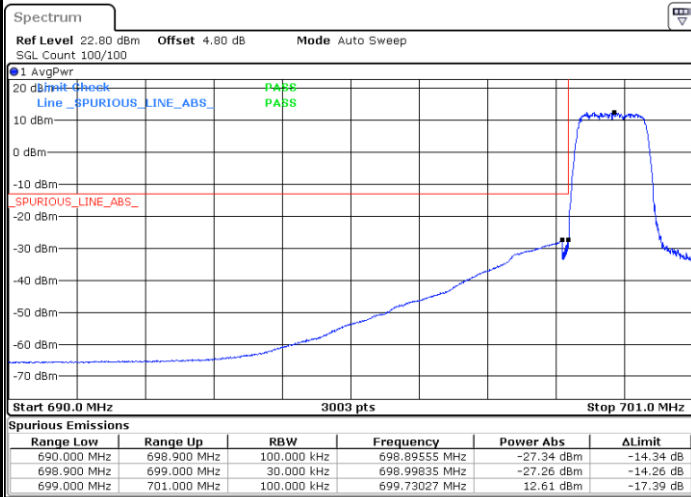
Date: 2 AUG 2020 02:32:13

Highest Band Edge / 1 RB



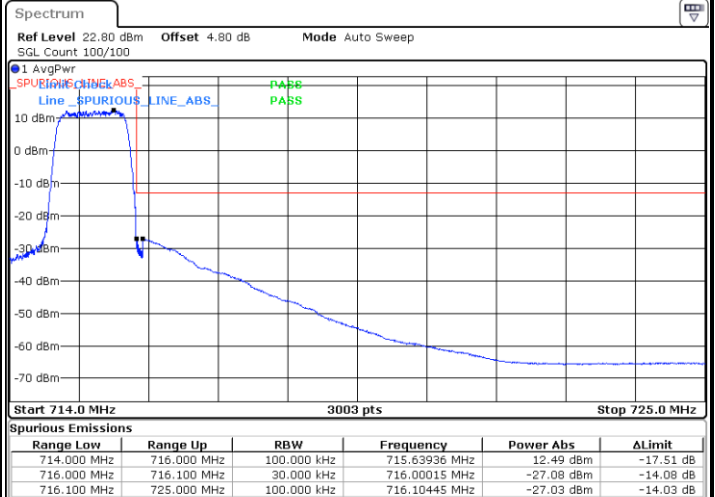
Date: 2 AUG 2020 02:40:04

Lowest Band Edge / Full RB



Date: 2 AUG 2020 02:35:35

Highest Band Edge / Full RB

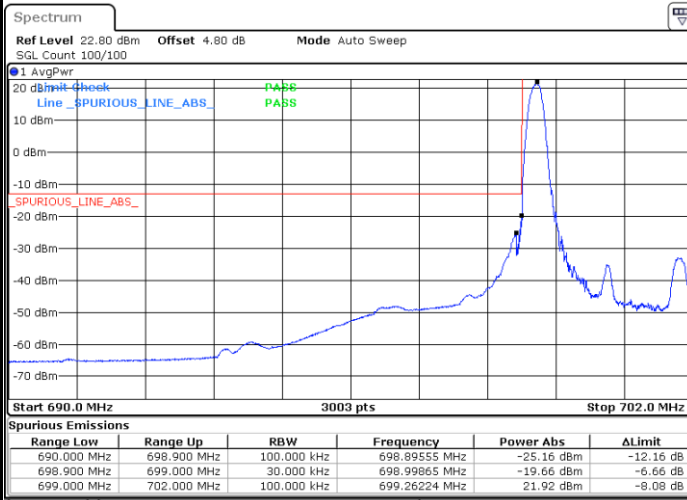


Date: 2 AUG 2020 02:36:42



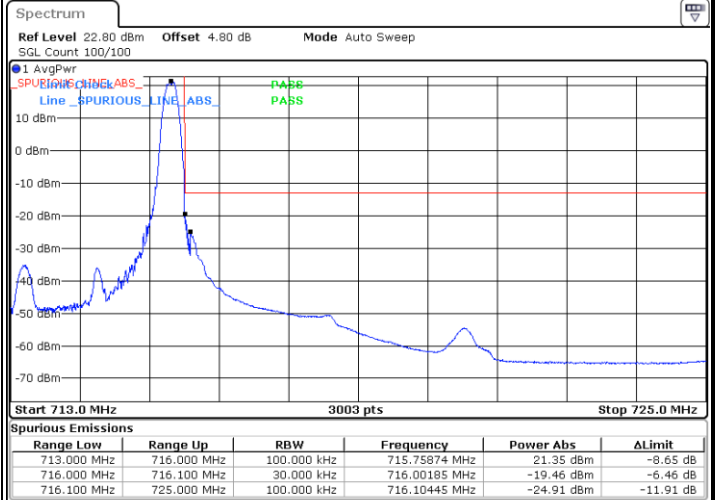
LTE Band 12 / 3MHz / QPSK

Lowest Band Edge / 1RB



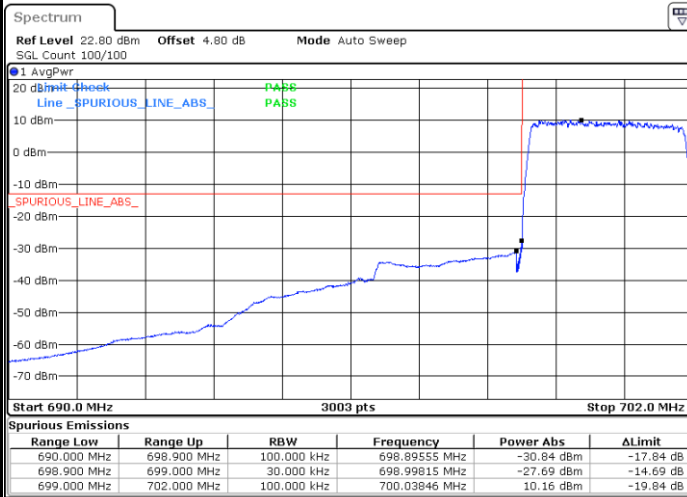
Date: 2 AUG 2020 02:49:44

Highest Band Edge / 1 RB



Date: 2 AUG 2020 02:55:21

Lowest Band Edge / Full RB



Date: 2 AUG 2020 02:50:52

Highest Band Edge / Full RB

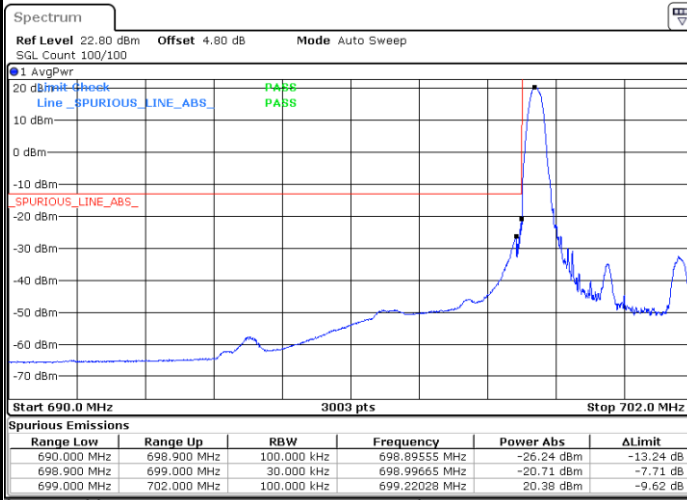


Date: 2 AUG 2020 02:54:14



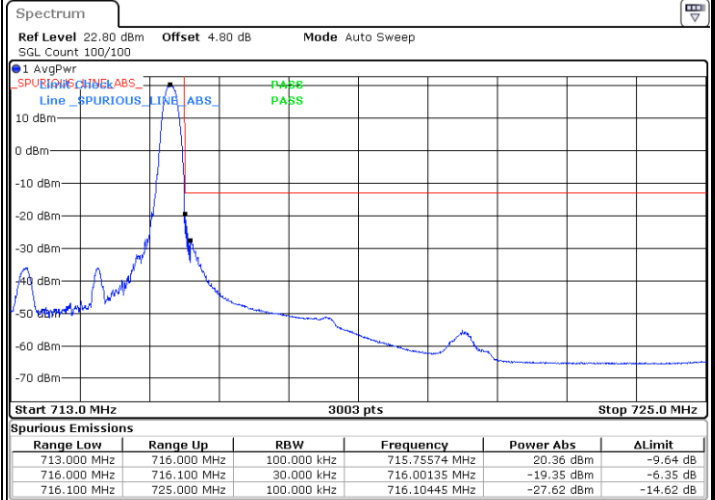
LTE Band 12 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



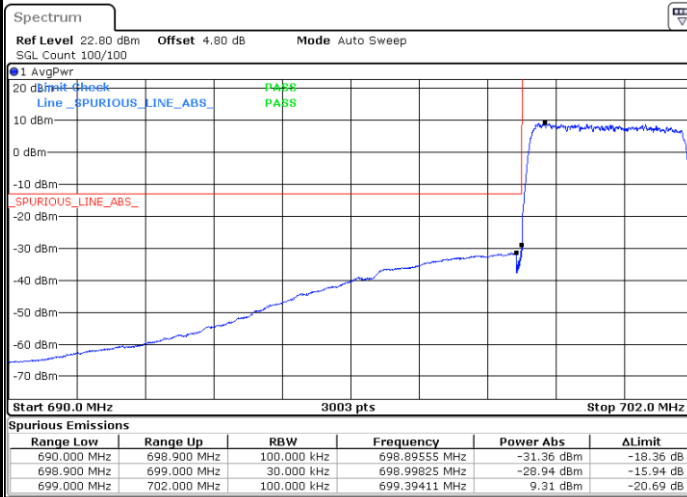
Date: 2 AUG 2020 02:48:37

Highest Band Edge / 1 RB



Date: 2 AUG 2020 02:56:29

Lowest Band Edge / Full RB



Date: 2 AUG 2020 02:51:59

Highest Band Edge / Full RB

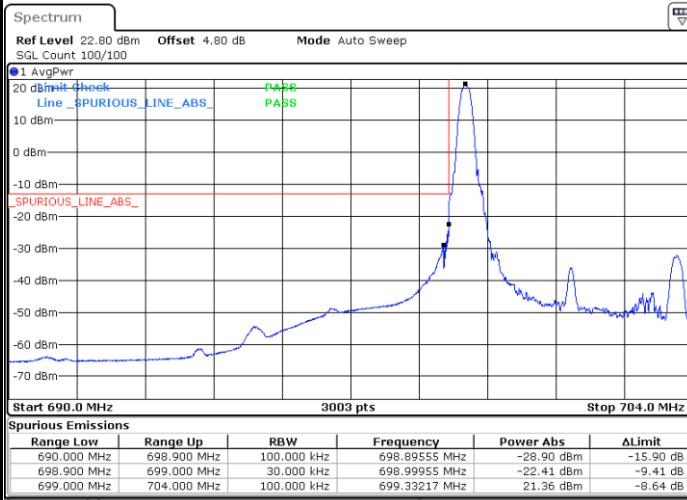


Date: 2 AUG 2020 02:53:07



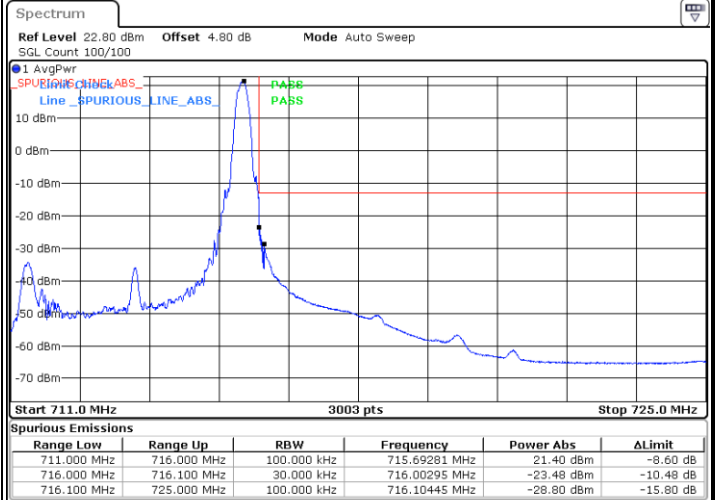
LTE Band 12 / 5MHz / QPSK

Lowest Band Edge / 1 RB



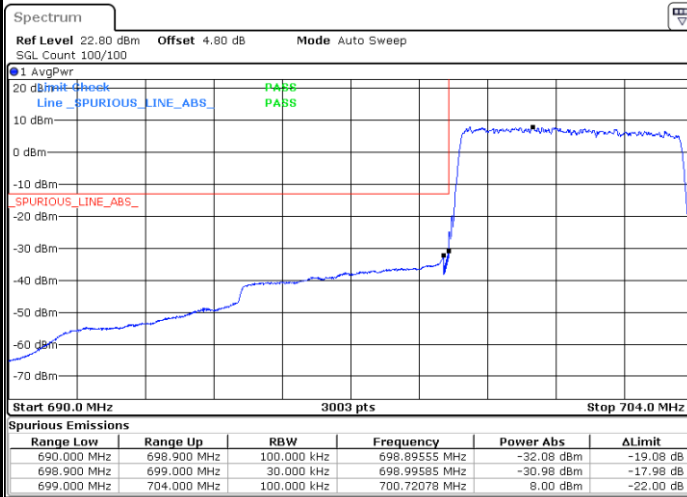
Date: 2 AUG 2020 03:06:08

Highest Band Edge / 1 RB



Date: 2 AUG 2020 03:11:45

Lowest Band Edge / Full RB



Date: 2 AUG 2020 03:07:16

Highest Band Edge / Full RB

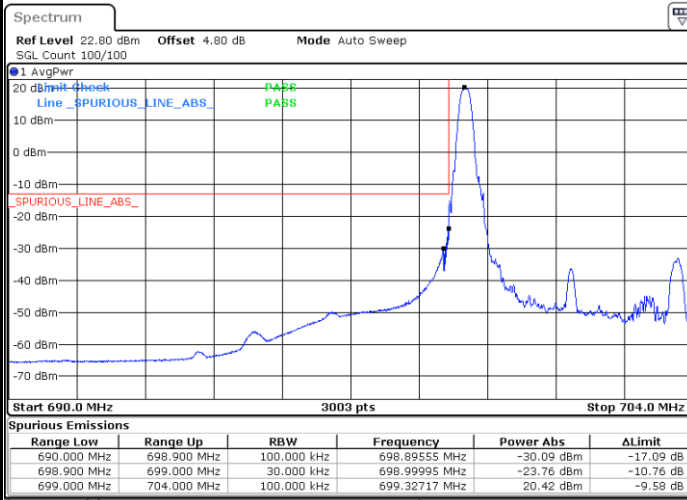


Date: 2 AUG 2020 03:10:38



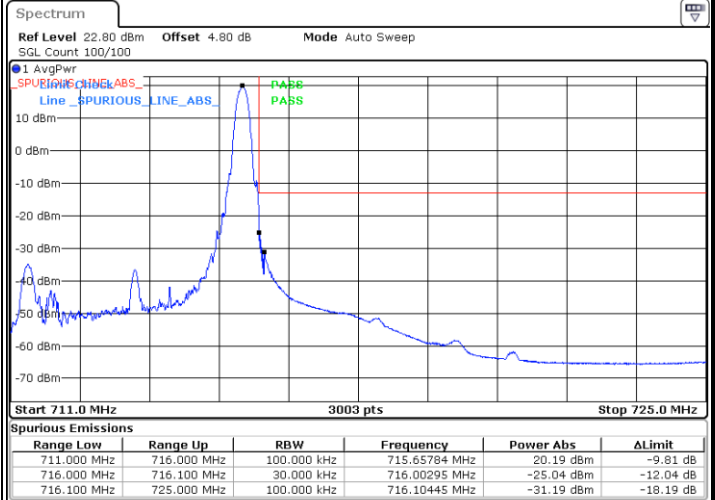
LTE Band 12 / 5MHz / 16QAM

Lowest Band Edge / 1RB



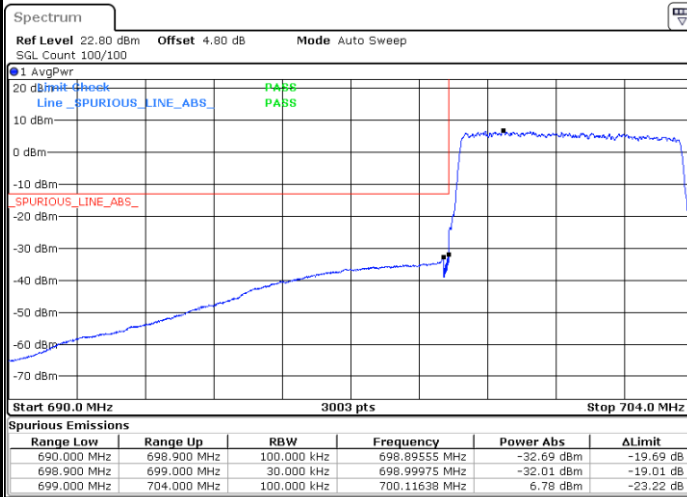
Date: 2 AUG.2020 03:05:01

Highest Band Edge / 1 RB



Date: 2 AUG.2020 03:12:53

Lowest Band Edge / Full RB



Date: 2 AUG.2020 03:08:23

Highest Band Edge / Full RB



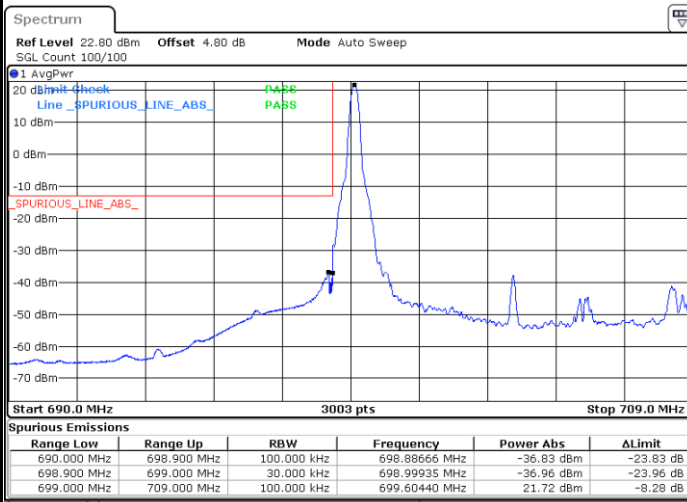
Date: 2 AUG.2020 03:09:31





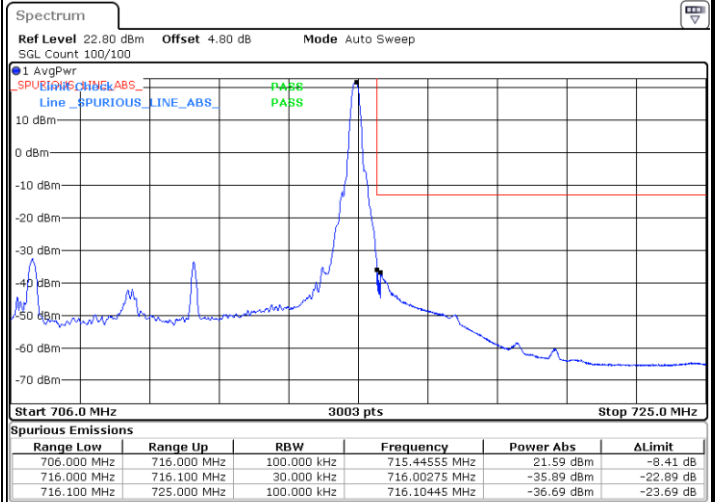
LTE Band 12 / 10MHz / QPSK

Lowest Band Edge / 1 RB



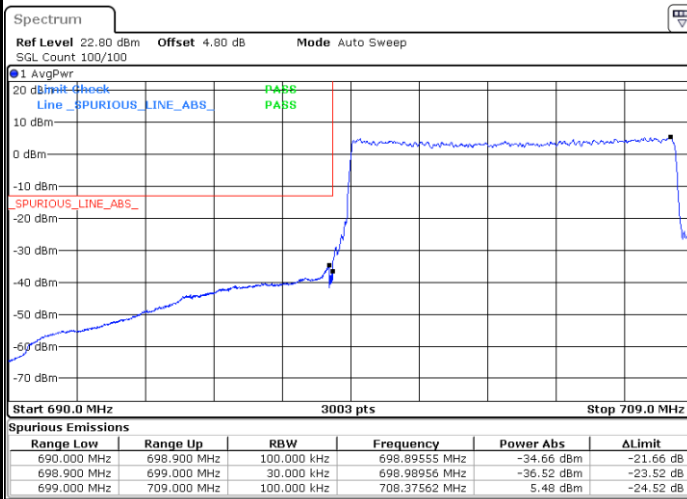
Date: 2 AUG 2020 03:22:33

Highest Band Edge / 1 RB



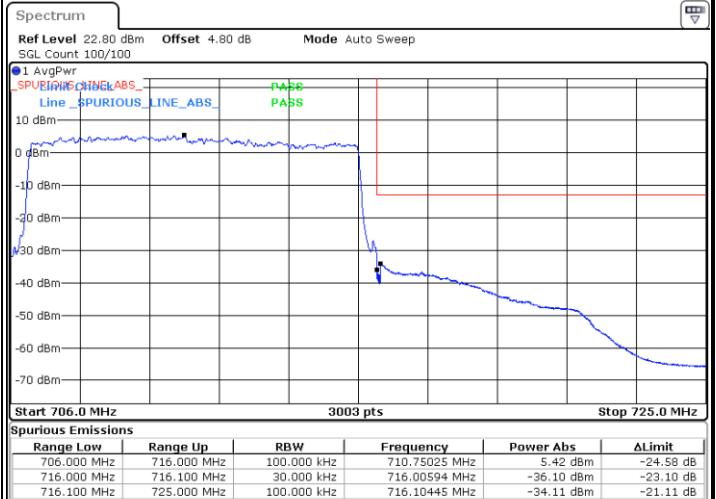
Date: 2 AUG 2020 03:28:10

Lowest Band Edge / Full RB



Date: 2 AUG 2020 03:23:40

Highest Band Edge / Full RB

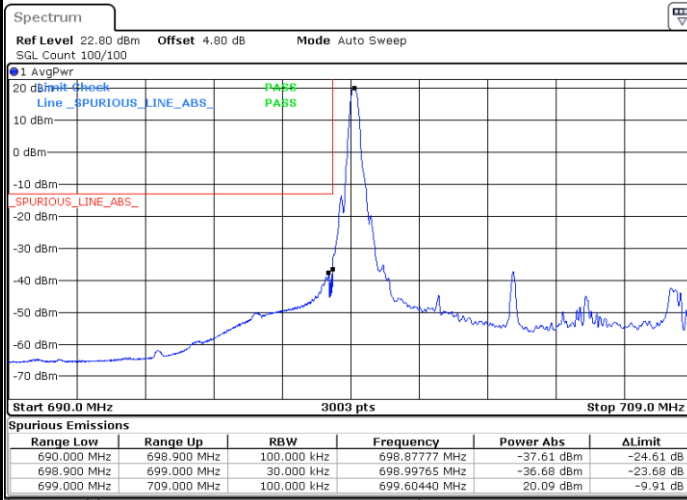


Date: 2 AUG 2020 03:27:03



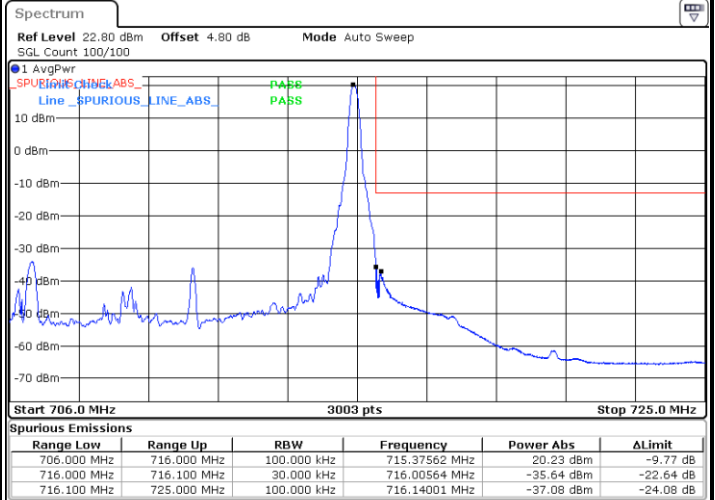
LTE Band 12 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



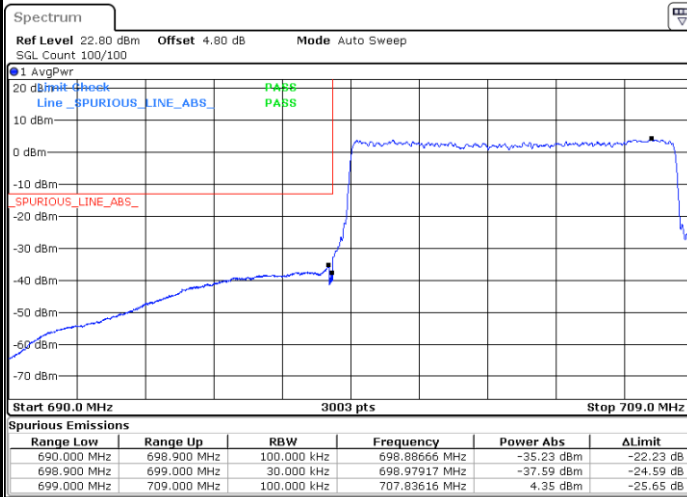
Date: 2 AUG 2020 03:21:26

Highest Band Edge / 1 RB



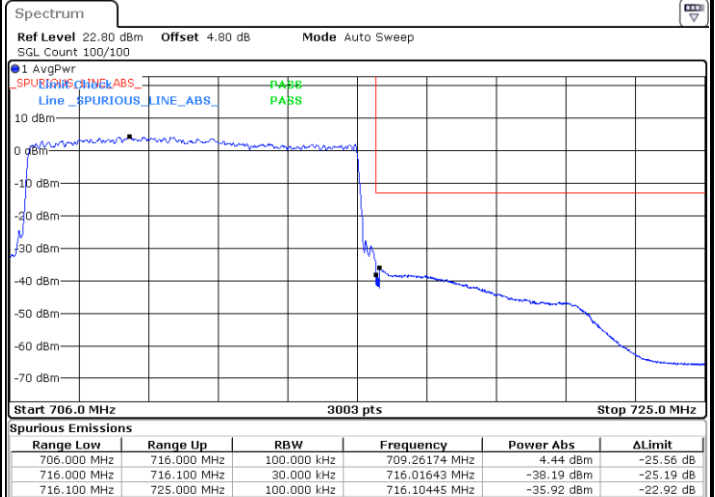
Date: 2 AUG 2020 03:29:17

Lowest Band Edge / Full RB



Date: 2 AUG 2020 03:24:48

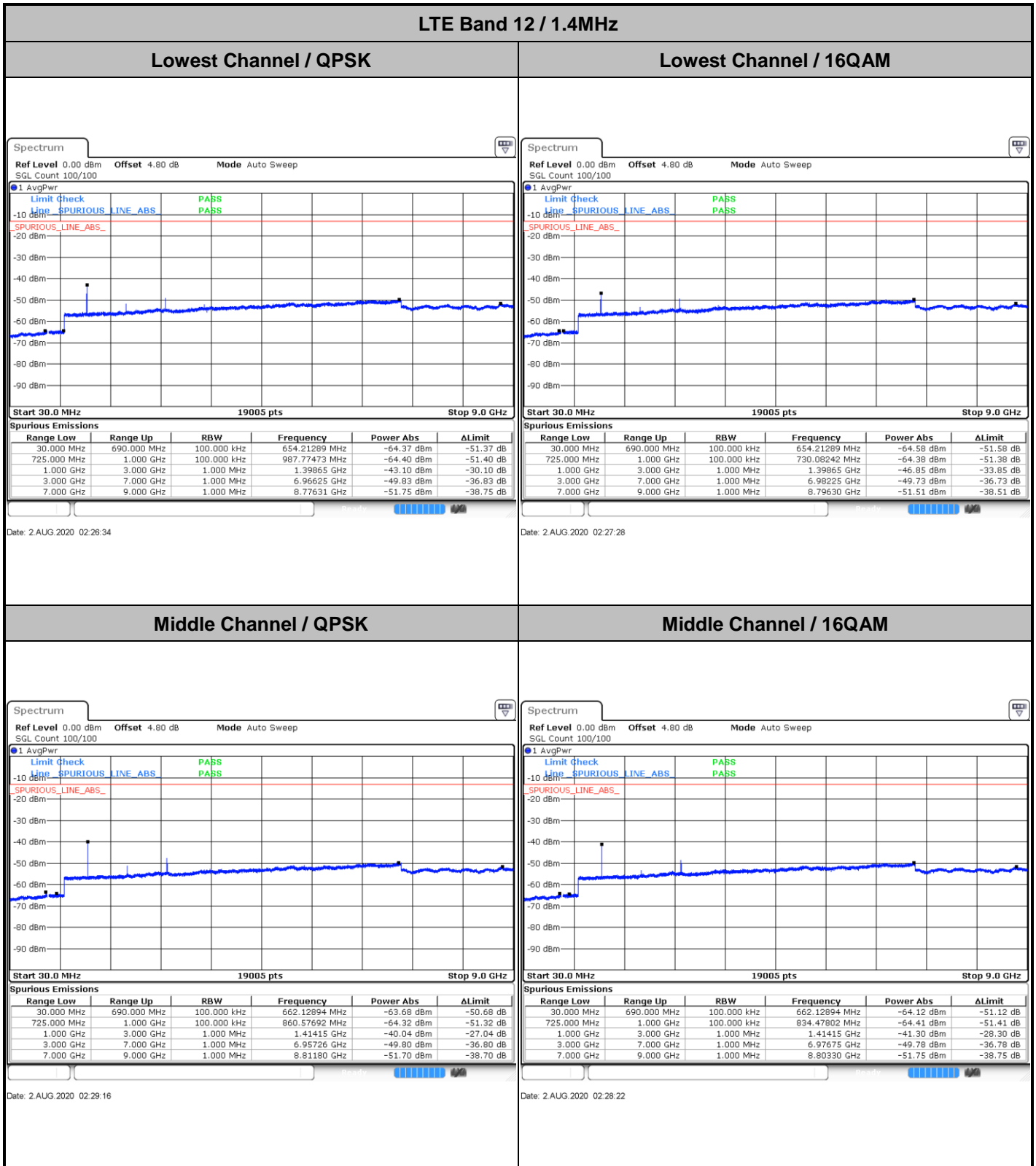
Highest Band Edge / Full RB



Date: 2 AUG 2020 03:25:55



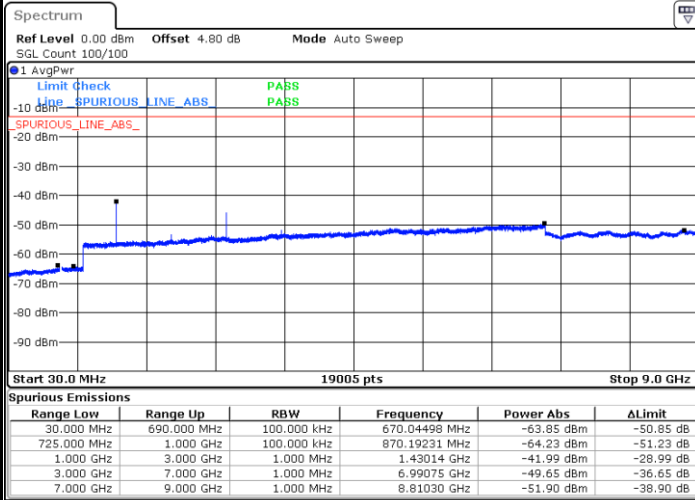
# Conducted Spurious Emission





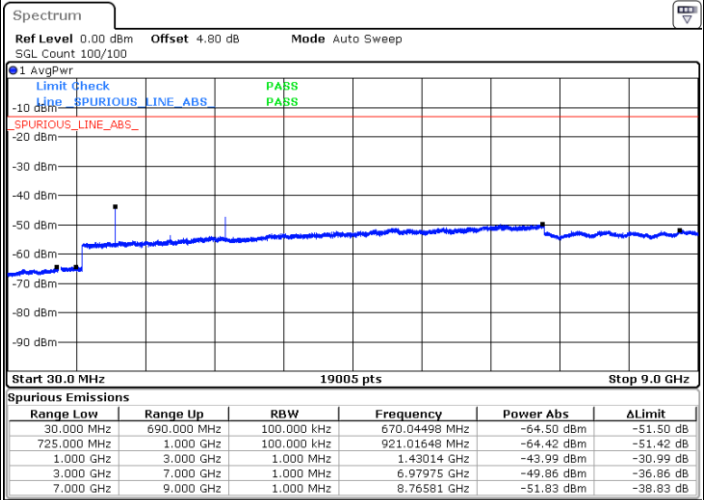
LTE Band 12 / 1.4MHz

Highest Channel / QPSK



Date: 2 AUG.2020 02:30:10

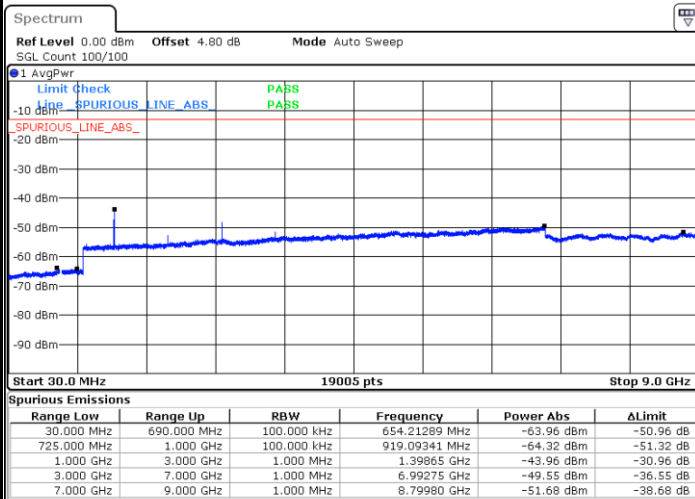
Highest Channel / 16QAM



Date: 2 AUG.2020 02:31:05

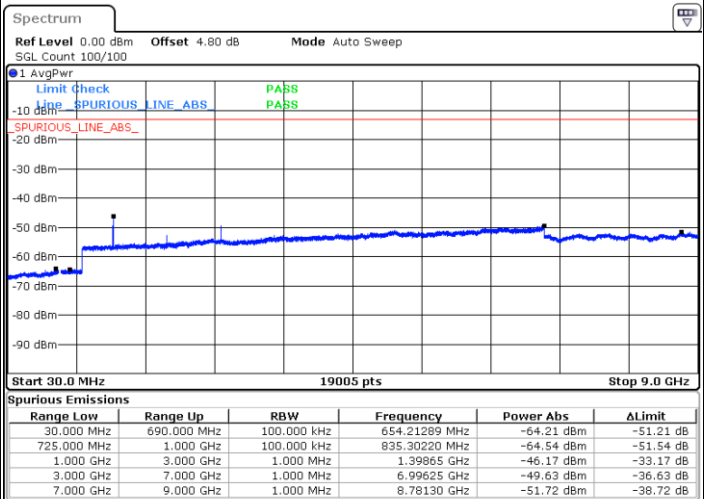
LTE Band 12 / 3MHz

Lowest Channel / QPSK



Date: 2 AUG.2020 02:42:58

Lowest Channel / 16QAM



Date: 2 AUG.2020 02:43:52