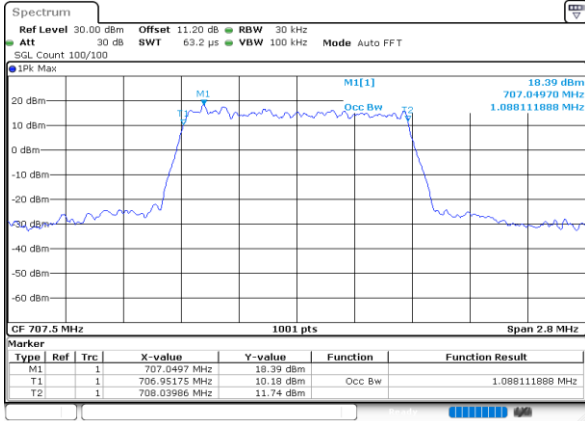




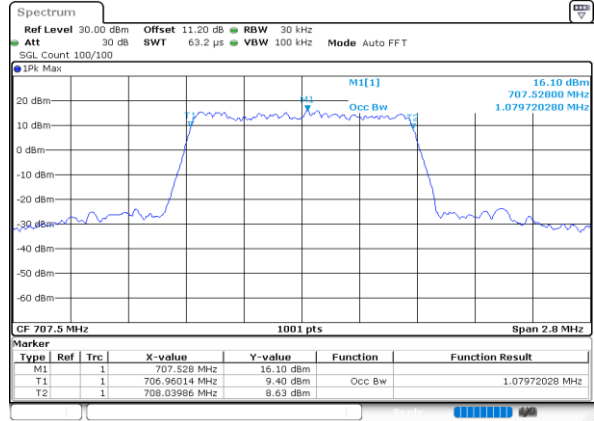
LTE Band 12

Middle Channel / 1.4MHz / QPSK



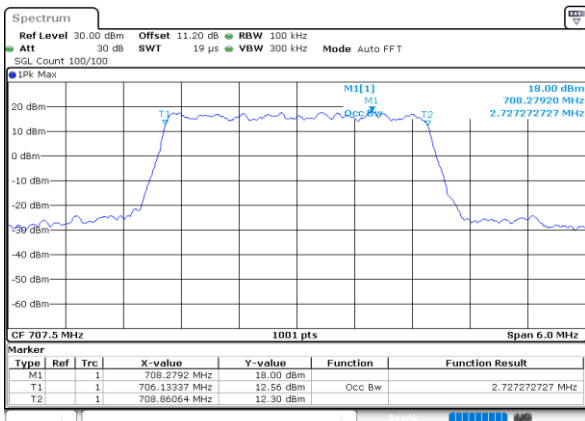
Date: 17 JUN 2022 21:02:45

Middle Channel / 1.4MHz / 16QAM



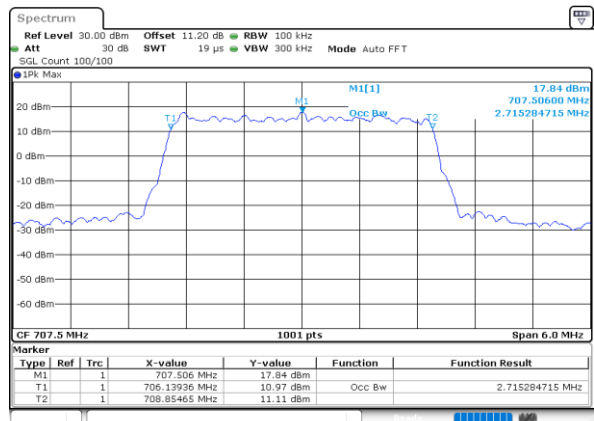
Date: 17 JUN 2022 21:02:16

Middle Channel / 3MHz / QPSK



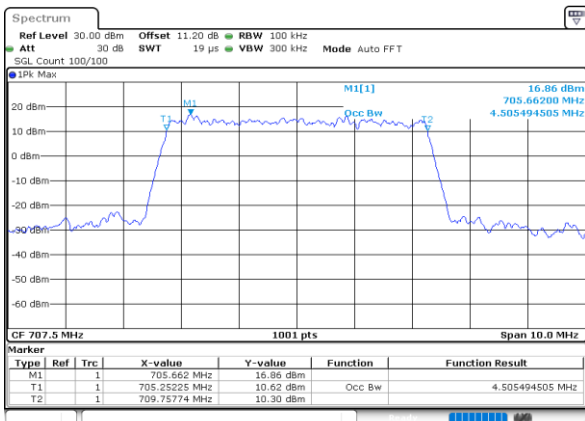
Date: 17 JUN 2022 21:18:13

Middle Channel / 3MHz / 16QAM



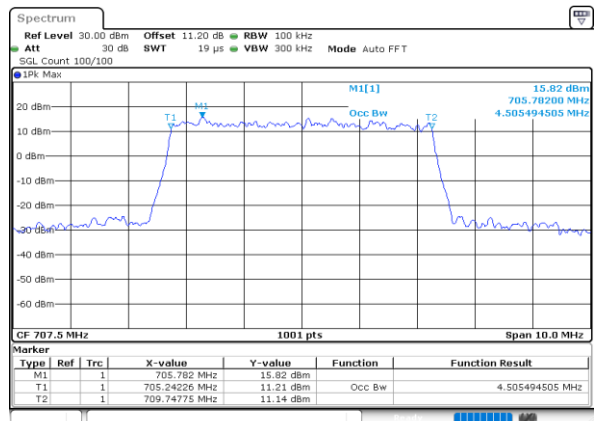
Date: 17 JUN 2022 21:17:45

Middle Channel / 5MHz / QPSK



Date: 17 JUN 2022 21:37:44

Middle Channel / 5MHz / 16QAM

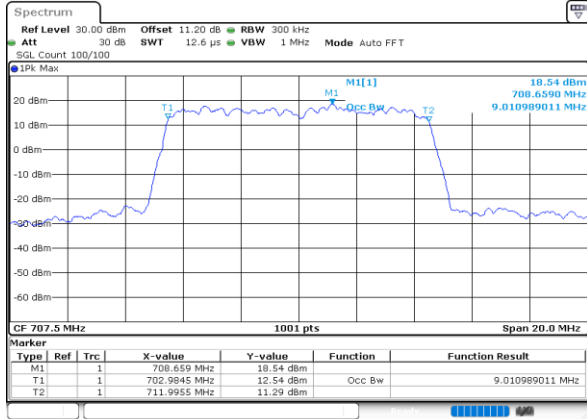


Date: 17 JUN 2022 21:37:15



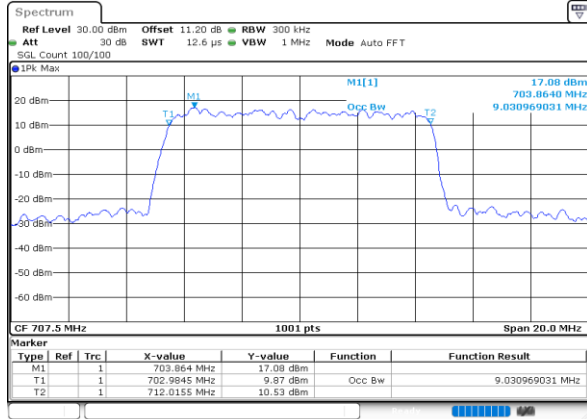
LTE Band 12

Middle Channel / 10MHz / QPSK



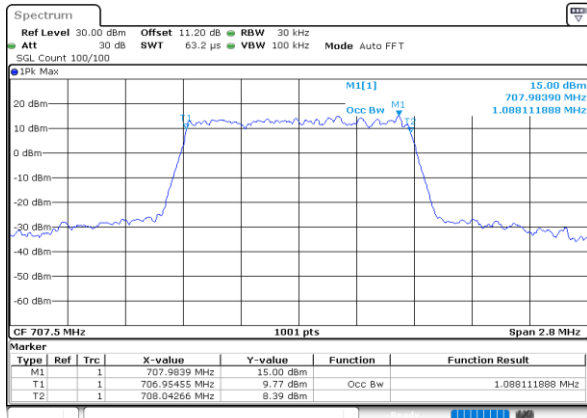
Date: 17 JUN 2022 21:49:15

Middle Channel / 10MHz / 16QAM



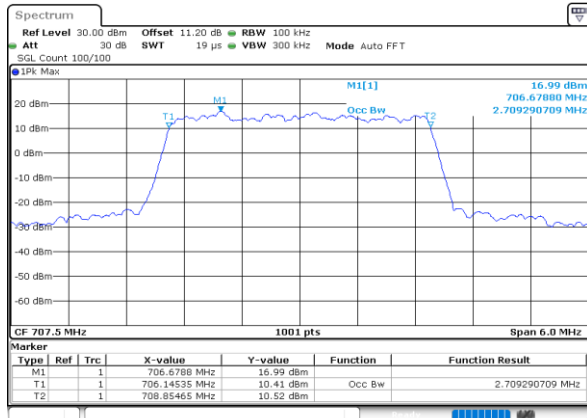
Date: 17 JUN 2022 21:48:46

Middle Channel / 1.4MHz / 64QAM



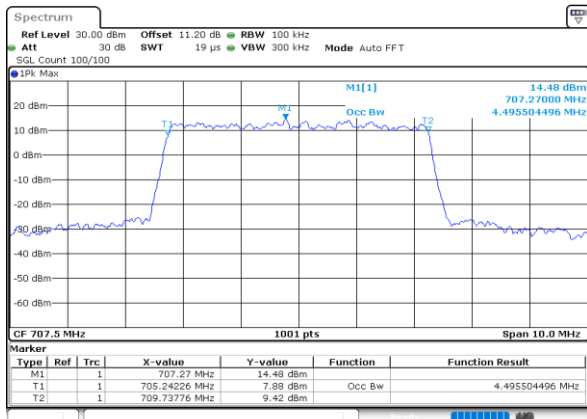
Date: 17 JUN 2022 21:11:09

Middle Channel / 3MHz / 64QAM



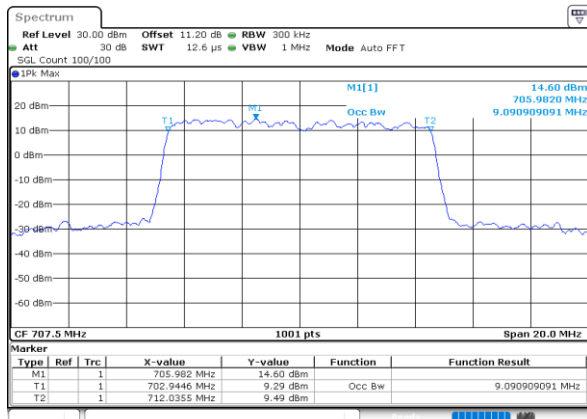
Date: 17 JUN 2022 21:26:37

Middle Channel / 5MHz / 64QAM



Date: 17 JUN 2022 21:30:43

Middle Channel / 10MHz / 64QAM

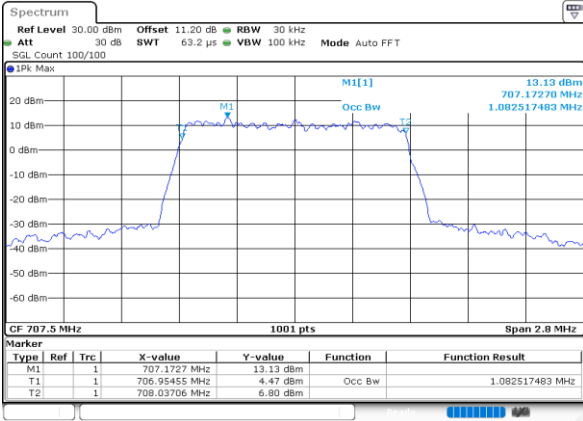


Date: 21 JUN 2022 00:35:23



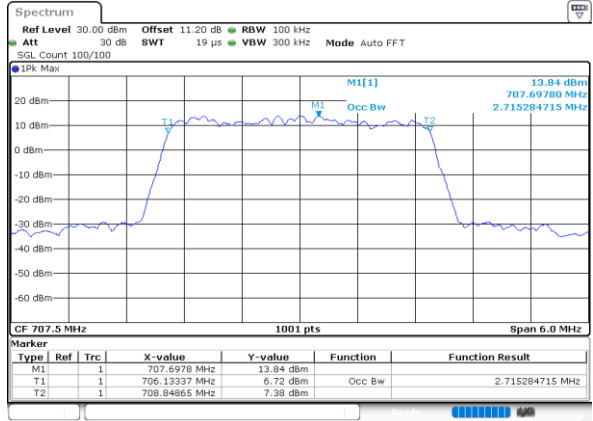
LTE Band 12

Middle Channel / 1.4MHz / 256QAM



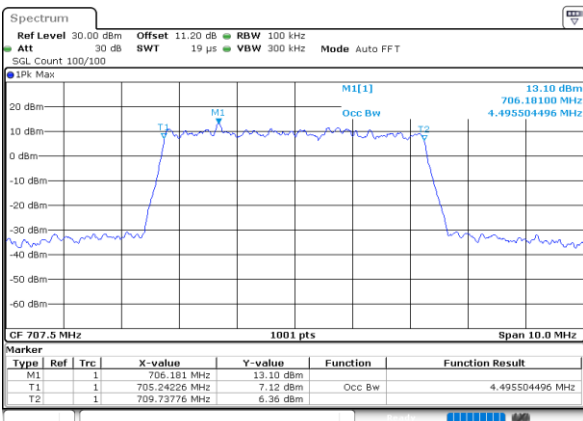
Date: 20 JUN 2022 23:34:29

Middle Channel / 3MHz / 256QAM



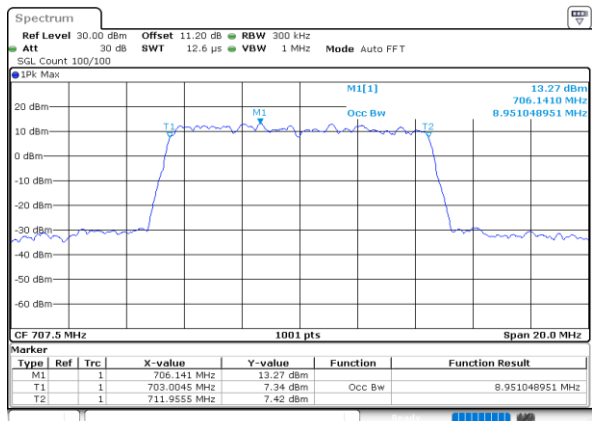
Date: 21 JUN 2022 00:00:02

Middle Channel / 5MHz / 256QAM



Date: 21 JUN 2022 00:15:23

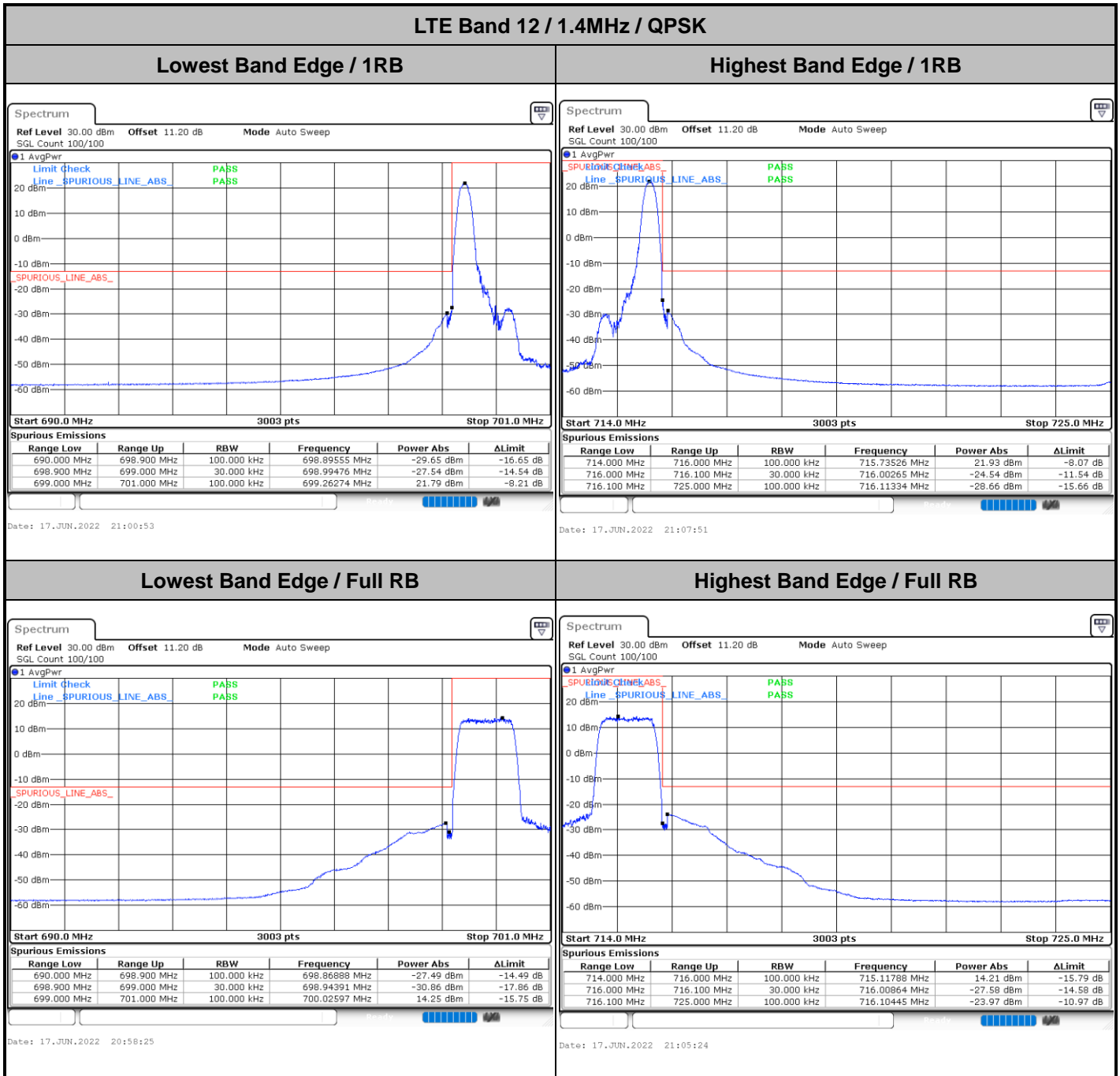
Middle Channel / 10MHz / 256QAM



Date: 21 JUN 2022 00:17:22



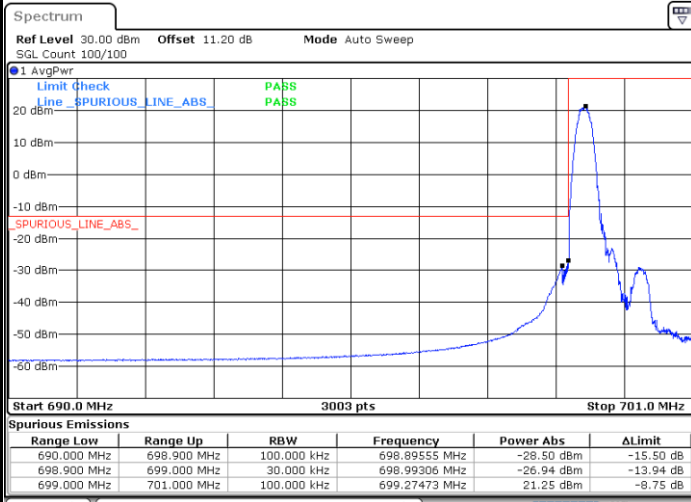
Conducted Band Edge





LTE Band 12 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



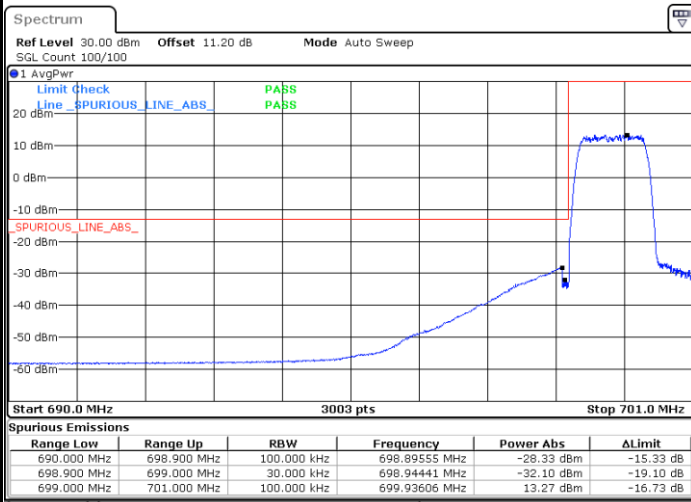
Date: 17 JUN 2022 21:00:03

Highest Band Edge / 1 RB



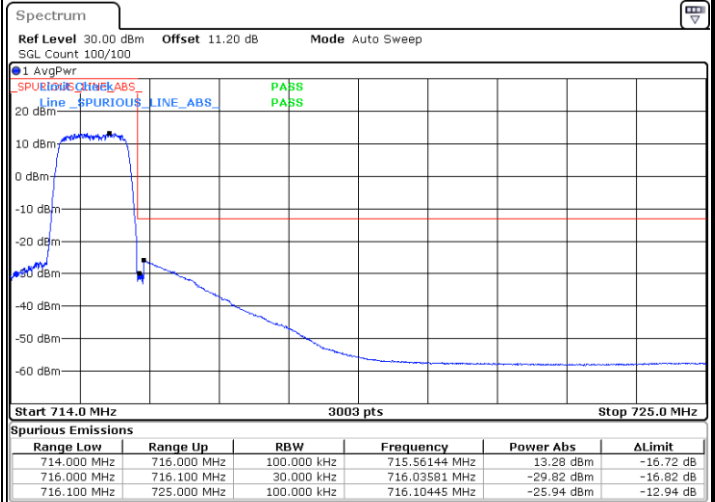
Date: 17 JUN 2022 21:07:02

Lowest Band Edge / Full RB



Date: 17 JUN 2022 20:59:14

Highest Band Edge / Full RB

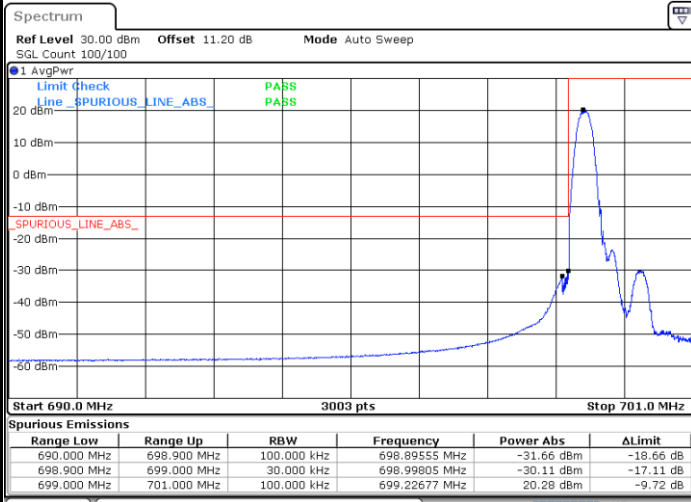


Date: 17 JUN 2022 21:06:13



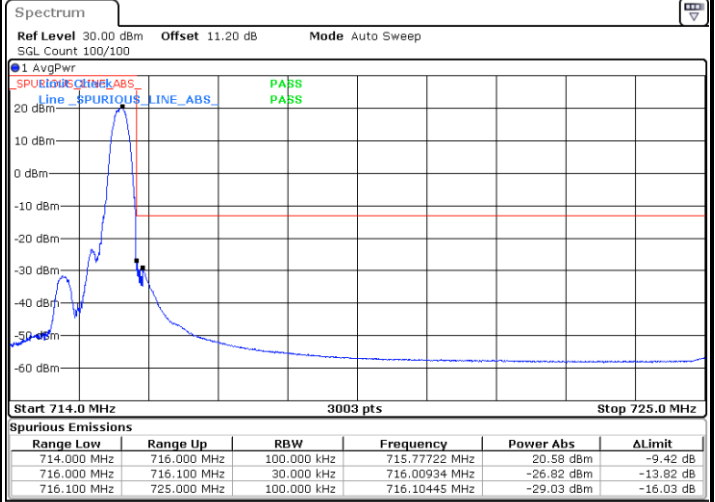
LTE Band 12 / 1.4MHz / 64QAM

Lowest Band Edge / 1 RB



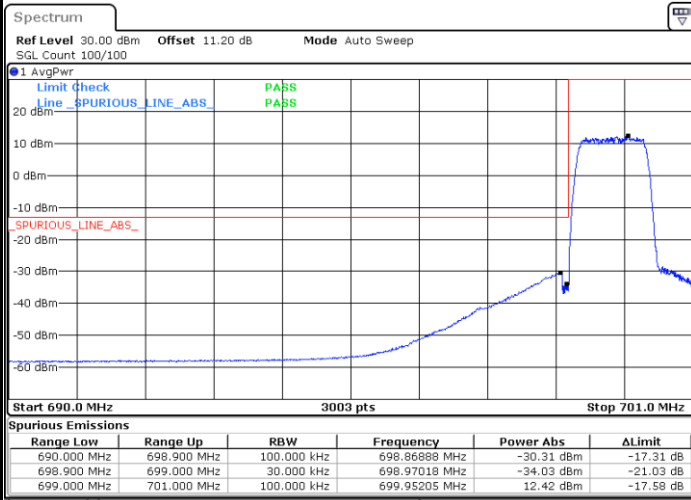
Date: 17 JUN 2022 21:10:38

Highest Band Edge / 1 RB



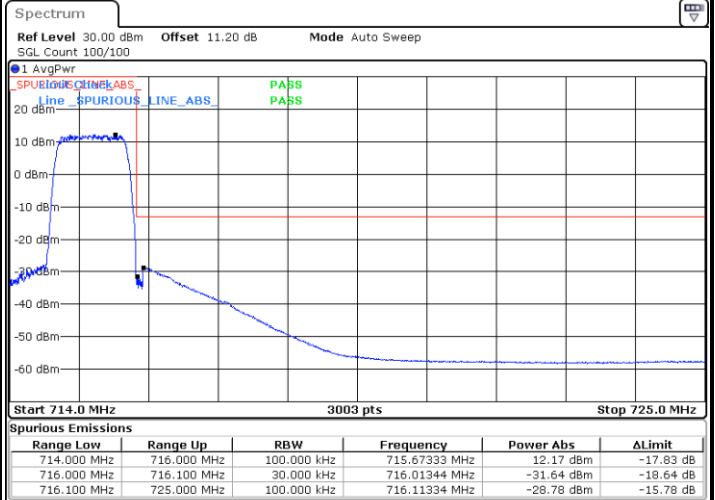
Date: 17 JUN 2022 21:12:59

Lowest Band Edge / Full RB



Date: 17 JUN 2022 21:09:49

Highest Band Edge / Full RB

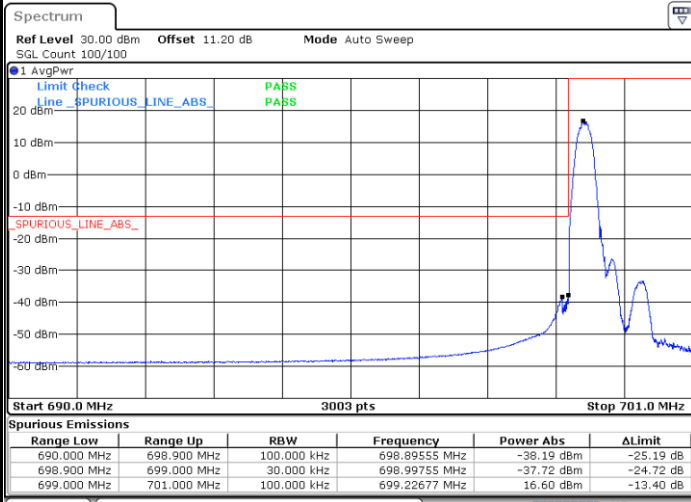


Date: 17 JUN 2022 21:12:10



LTE Band 12 / 1.4MHz / 256QAM

Lowest Band Edge / 1 RB



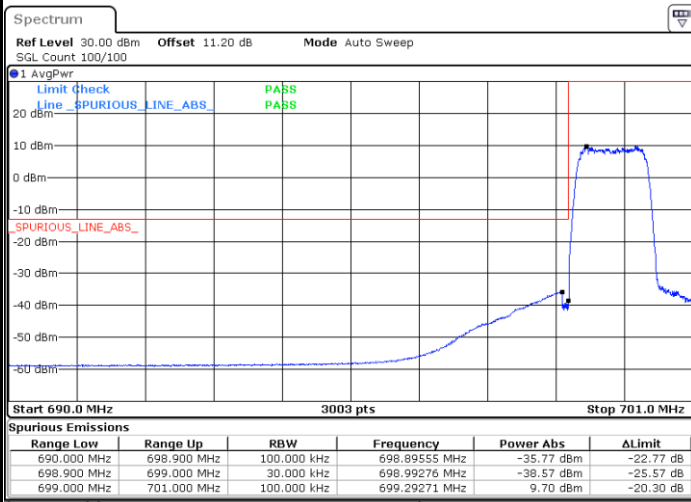
Date: 20 JUN 2022 23:42:34

Highest Band Edge / 1 RB



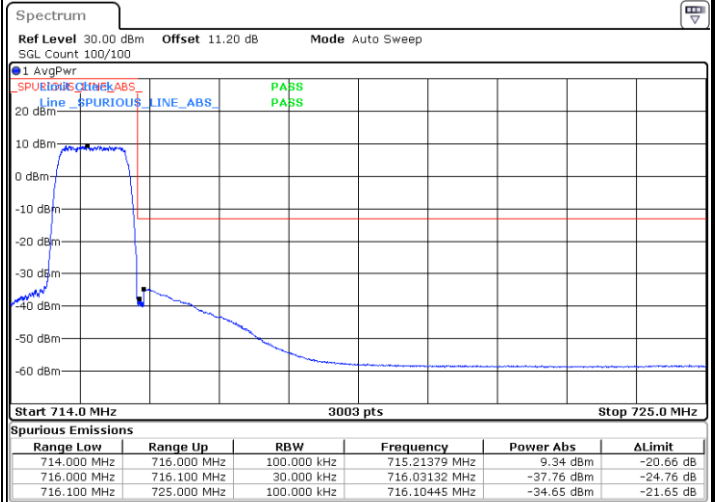
Date: 20 JUN 2022 23:44:27

Lowest Band Edge / Full RB

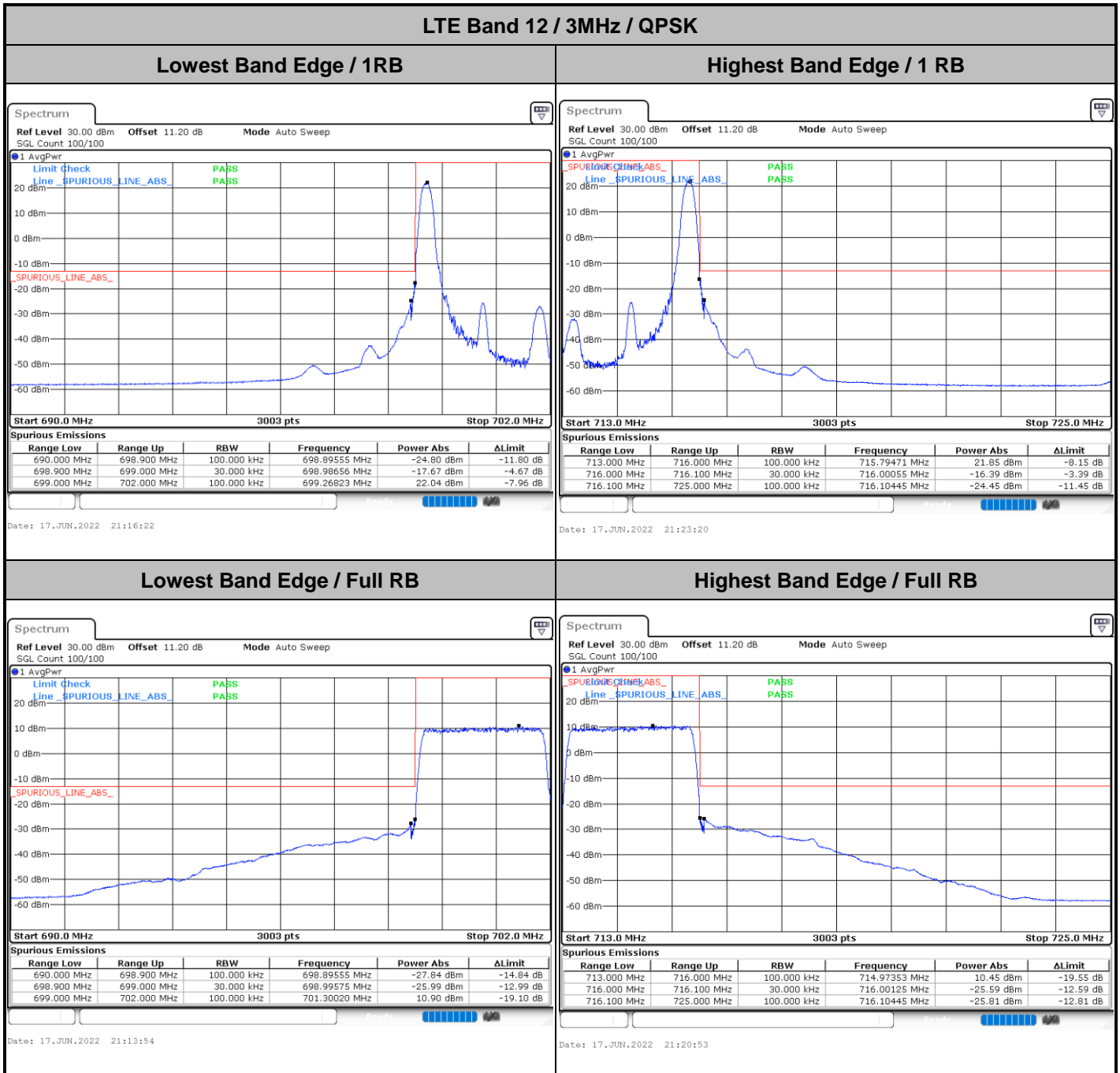


Date: 20 JUN 2022 23:37:45

Highest Band Edge / Full RB



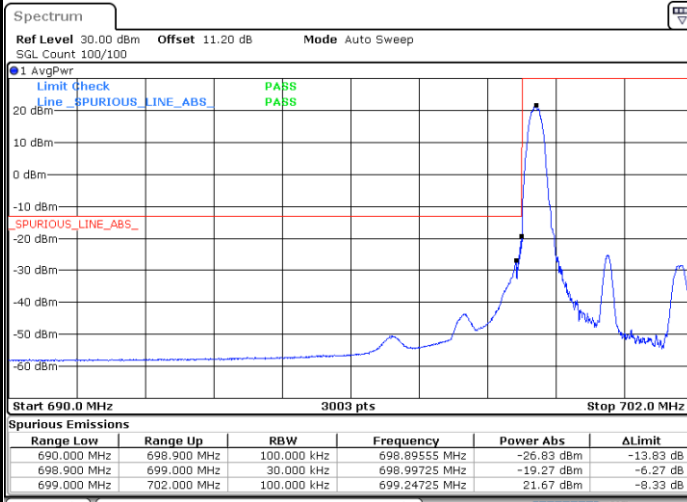
Date: 20 JUN 2022 23:47:28





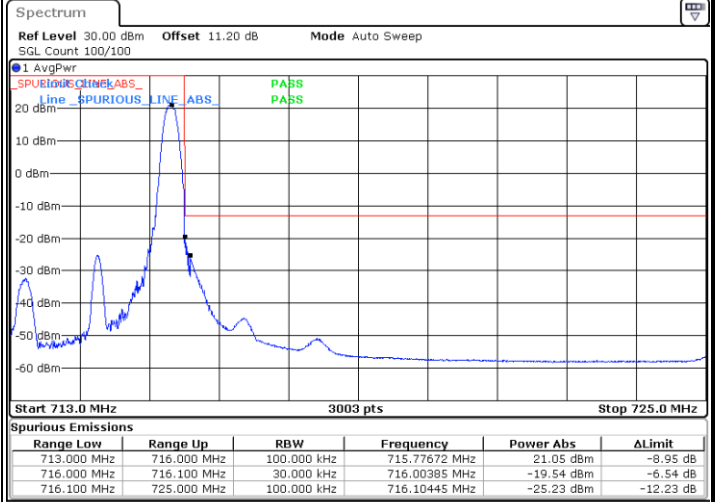
LTE Band 12 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



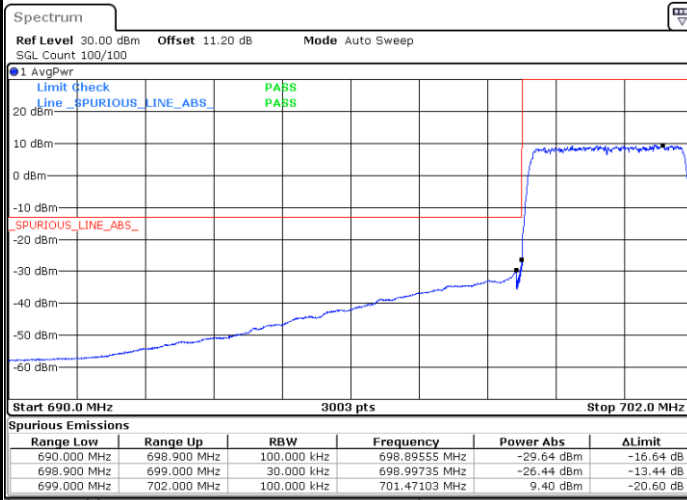
Date: 17 JUN 2022 21:15:33

Highest Band Edge / 1 RB



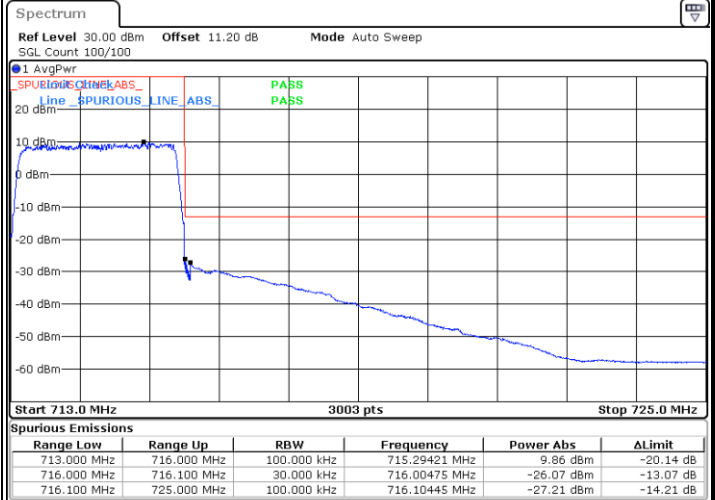
Date: 17 JUN 2022 21:22:31

Lowest Band Edge / Full RB



Date: 17 JUN 2022 21:14:43

Highest Band Edge / Full RB

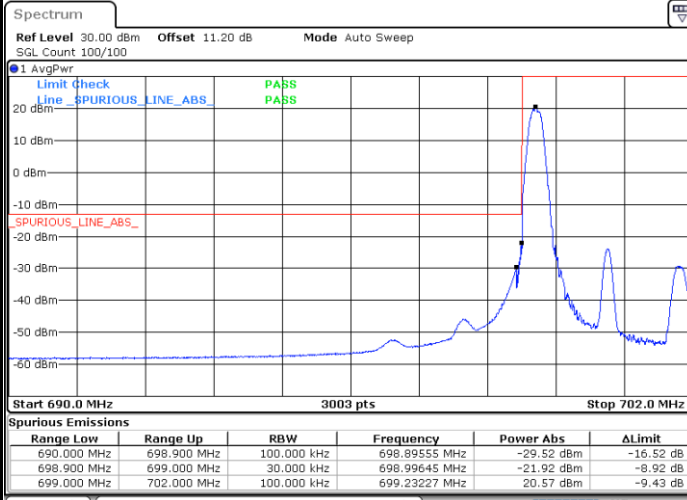


Date: 17 JUN 2022 21:21:42



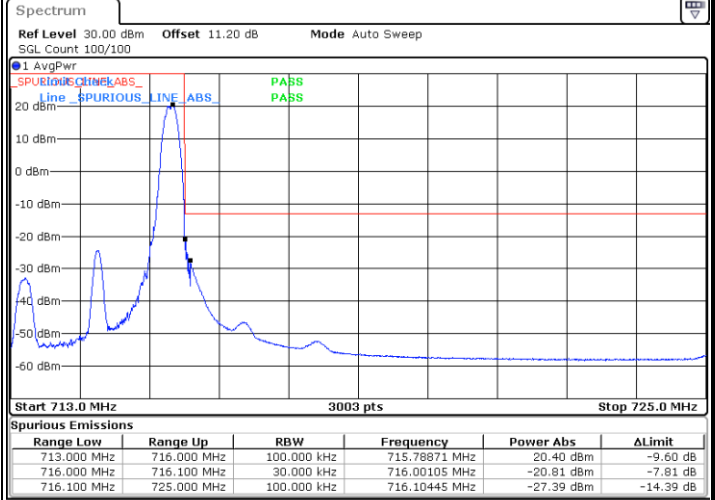
LTE Band 12 / 3MHz / 64QAM

Lowest Band Edge / 1 RB



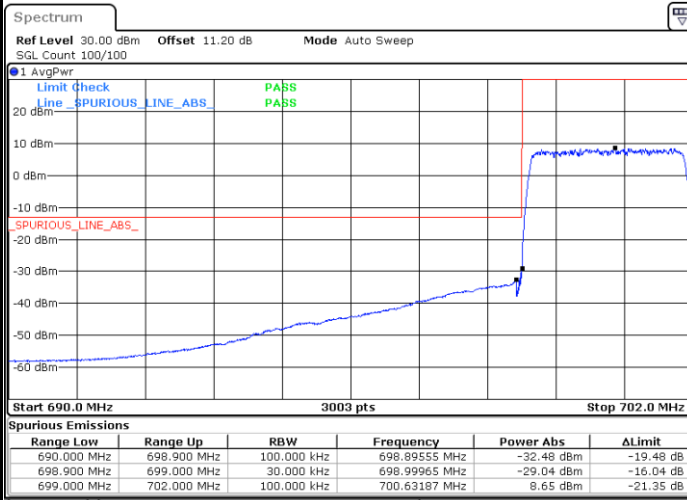
Date: 17 JUN 2022 21:26:08

Highest Band Edge / 1 RB



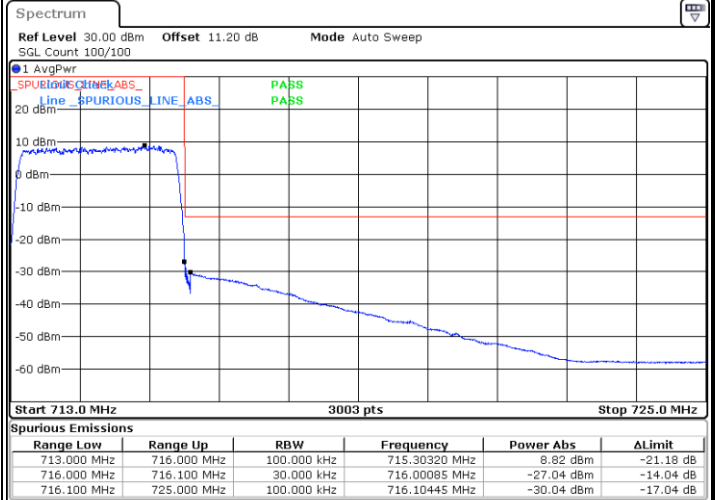
Date: 17 JUN 2022 21:28:29

Lowest Band Edge / Full RB



Date: 17 JUN 2022 21:25:18

Highest Band Edge / Full RB

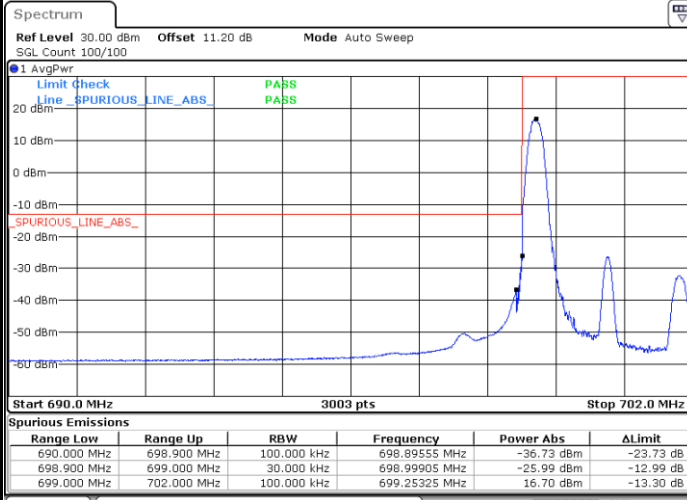


Date: 17 JUN 2022 21:27:40



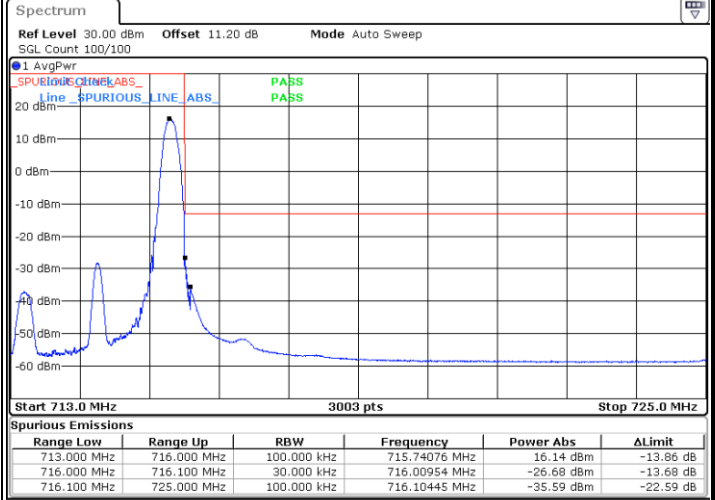
LTE Band 12 / 3MHz / 256QAM

Lowest Band Edge / 1 RB



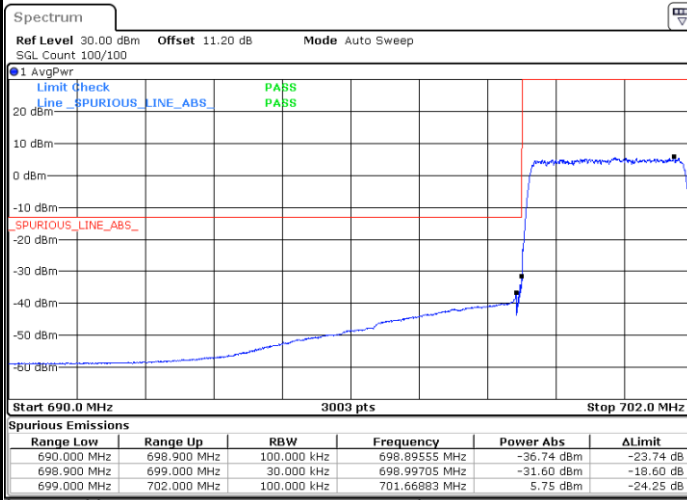
Date: 20 JUN 2022 23:50:15

Highest Band Edge / 1 RB



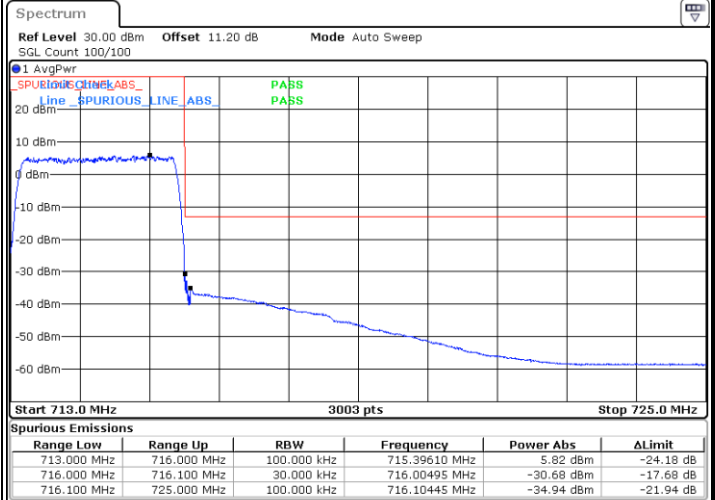
Date: 21 JUN 2022 00:04:42

Lowest Band Edge / Full RB



Date: 20 JUN 2022 23:51:39

Highest Band Edge / Full RB

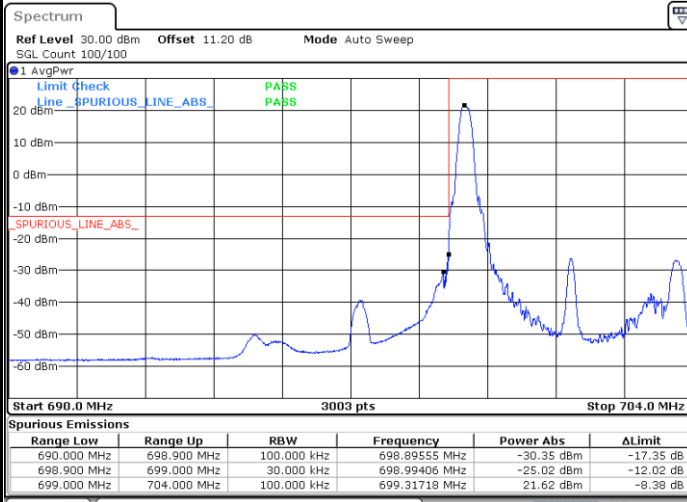


Date: 21 JUN 2022 00:01:58



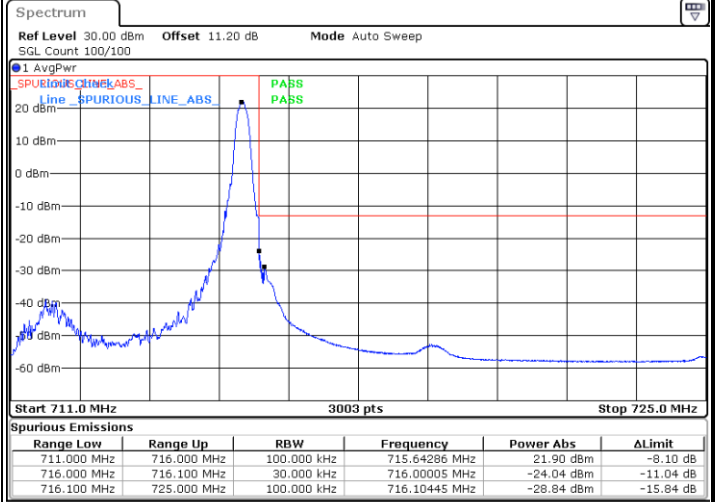
LTE Band 12 / 5MHz / QPSK

Lowest Band Edge / 1 RB



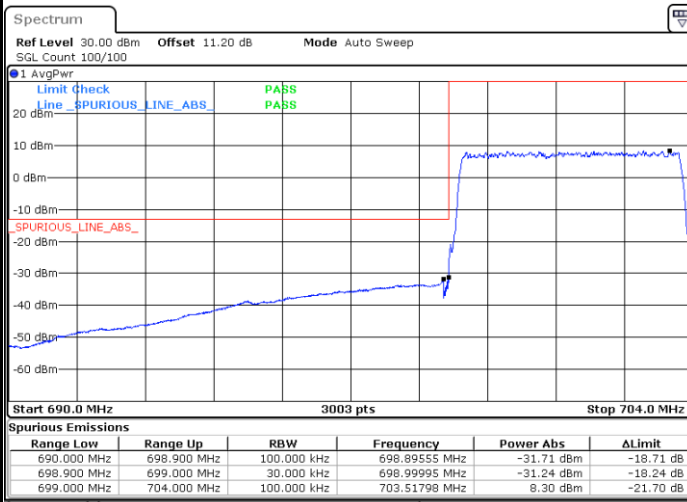
Date: 17 JUN 2022 21:35:52

Highest Band Edge / 1 RB



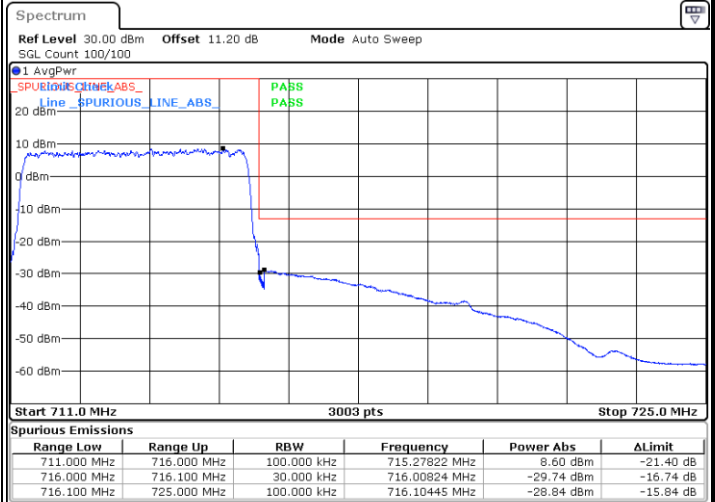
Date: 17 JUN 2022 21:42:01

Lowest Band Edge / Full RB



Date: 17 JUN 2022 21:33:24

Highest Band Edge / Full RB

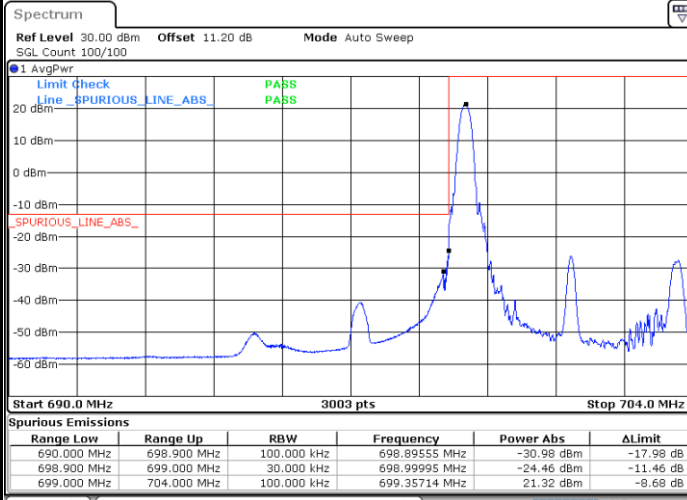


Date: 17 JUN 2022 21:40:23



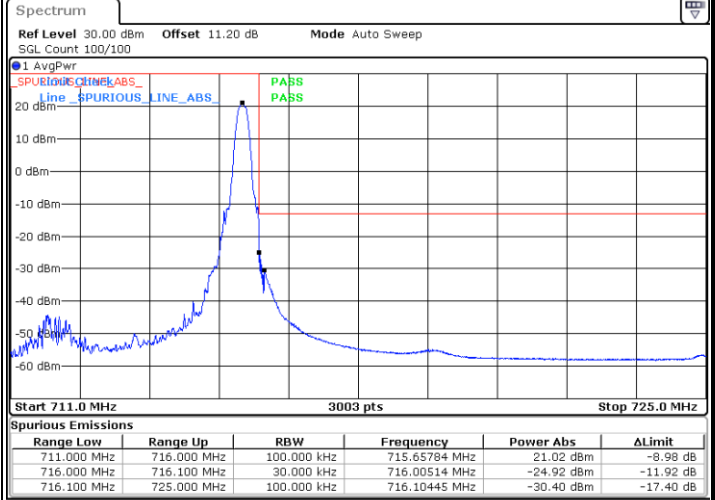
LTE Band 12 / 5MHz / 16QAM

Lowest Band Edge / 1RB



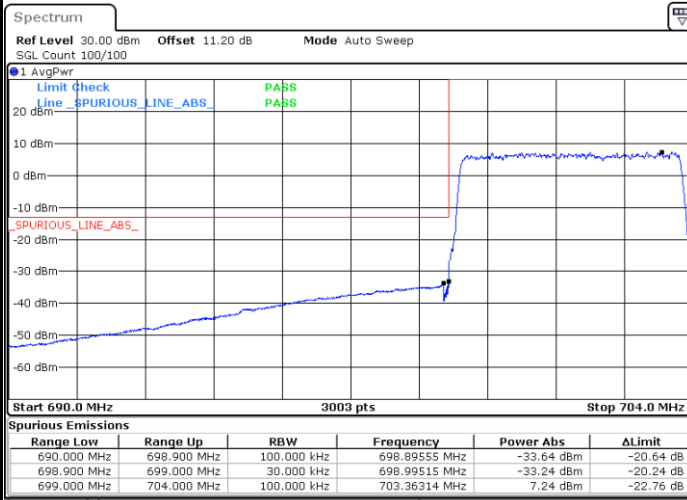
Date: 17 JUN 2022 21:35:03

Highest Band Edge / 1 RB



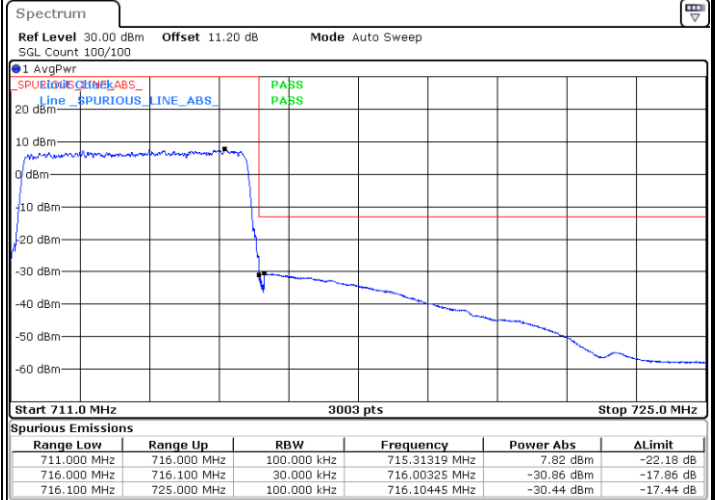
Date: 17 JUN 2022 21:42:50

Lowest Band Edge / Full RB



Date: 17 JUN 2022 21:34:13

Highest Band Edge / Full RB

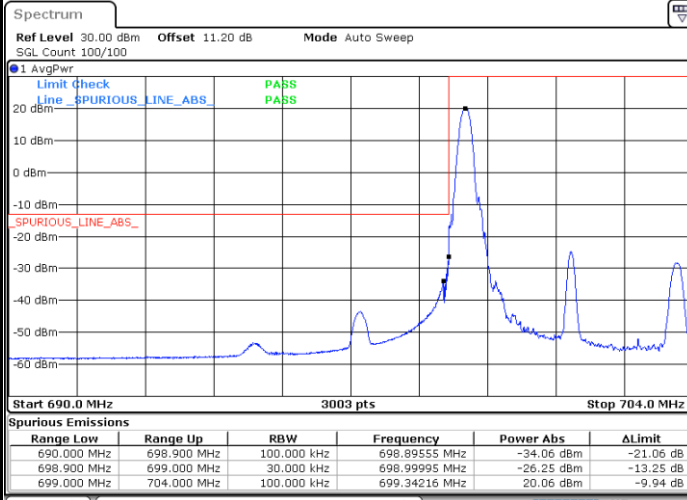


Date: 17 JUN 2022 21:41:12



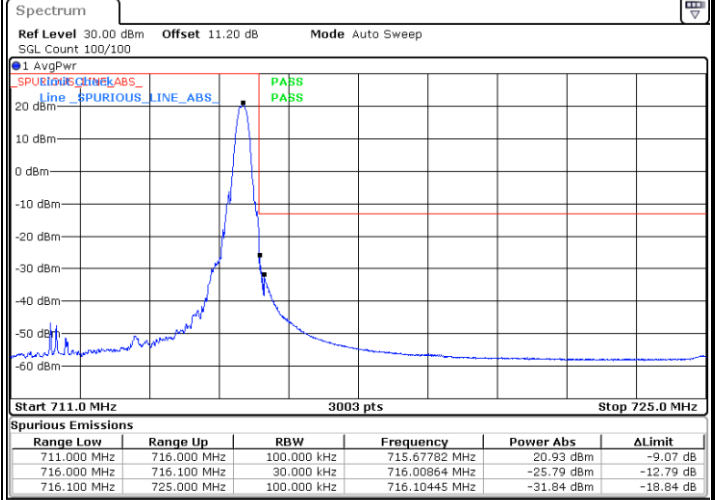
LTE Band 12 / 5MHz / 64QAM

Lowest Band Edge / 1RB



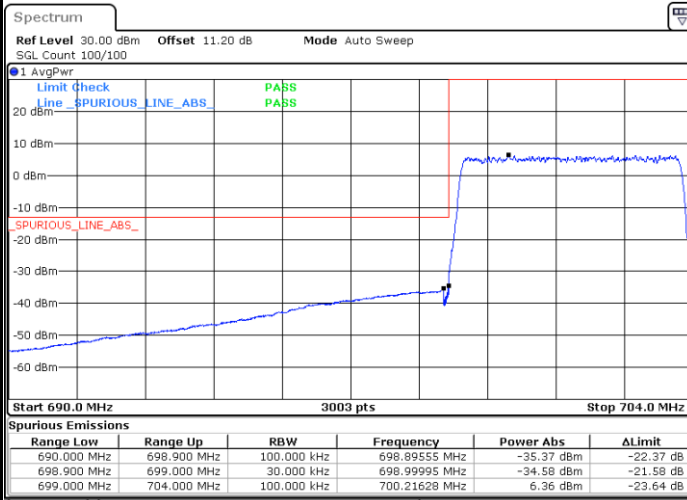
Date: 17.JUN.2022 21:30:13

Highest Band Edge / 1 RB



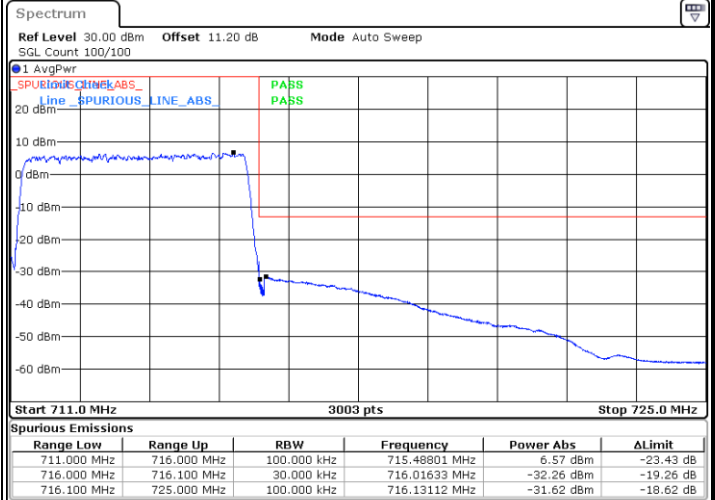
Date: 17.JUN.2022 21:32:34

Lowest Band Edge / Full RB



Date: 17.JUN.2022 21:29:24

Highest Band Edge / Full RB

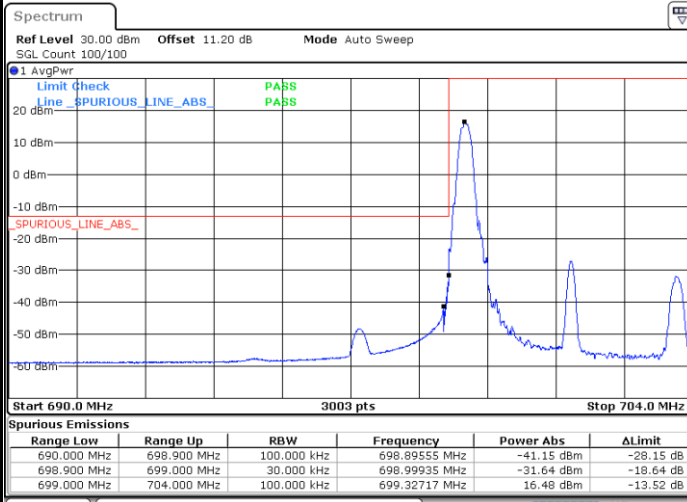


Date: 17.JUN.2022 21:31:45



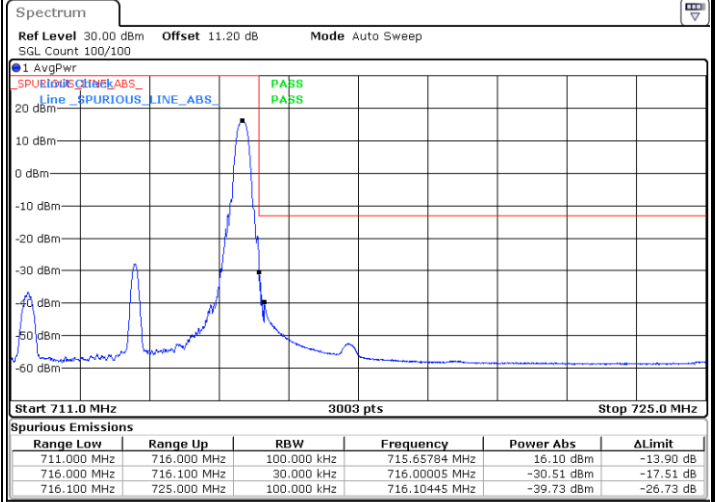
LTE Band 12 / 5MHz / 256QAM

Lowest Band Edge / 1RB



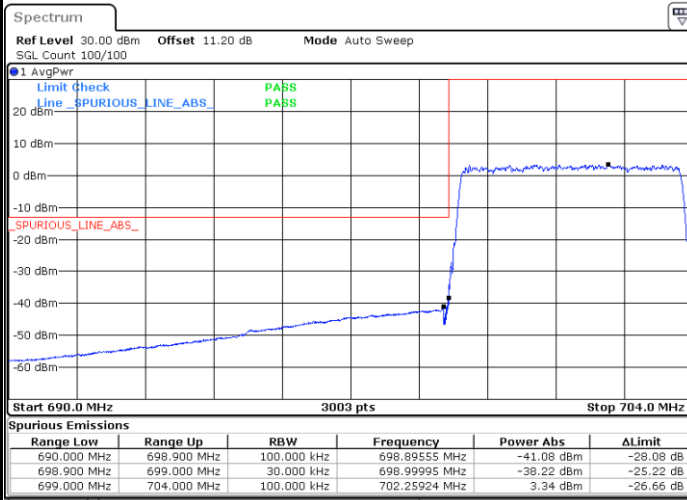
Date: 21.JUN.2022 00:09:37

Highest Band Edge / 1 RB



Date: 21.JUN.2022 00:20:06

Lowest Band Edge / Full RB



Date: 21.JUN.2022 00:12:00

Highest Band Edge / Full RB

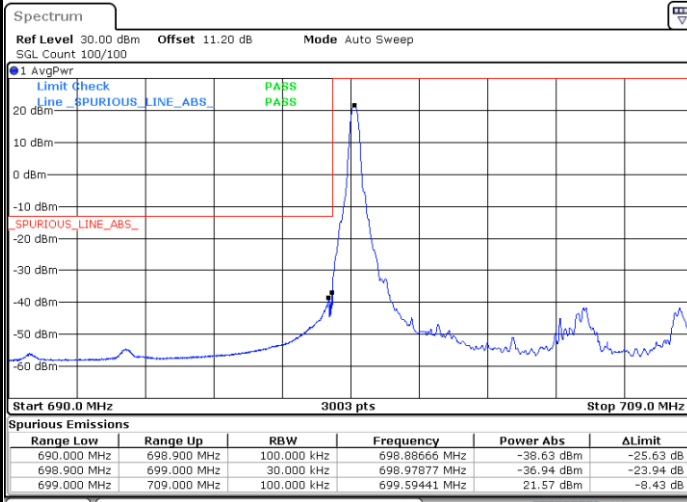


Date: 21.JUN.2022 00:18:36



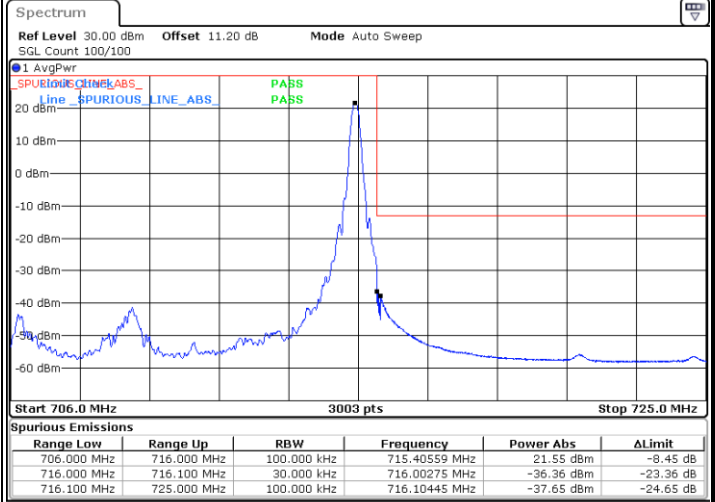
LTE Band 12 / 10MHz / QPSK

Lowest Band Edge / 1 RB



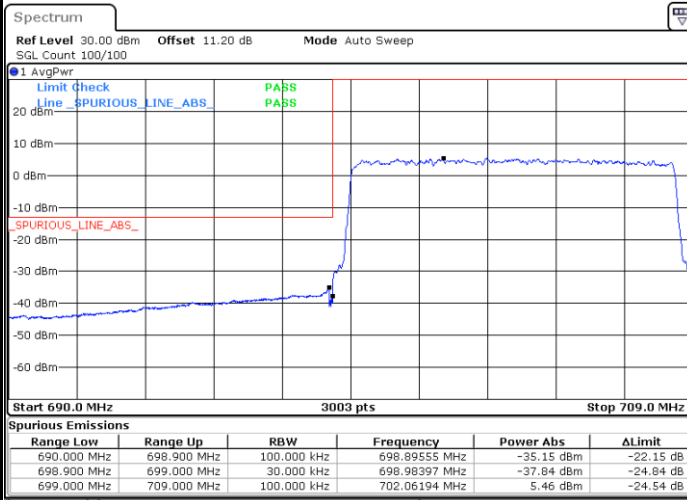
Date: 17 JUN 2022 21:47:23

Highest Band Edge / 1 RB



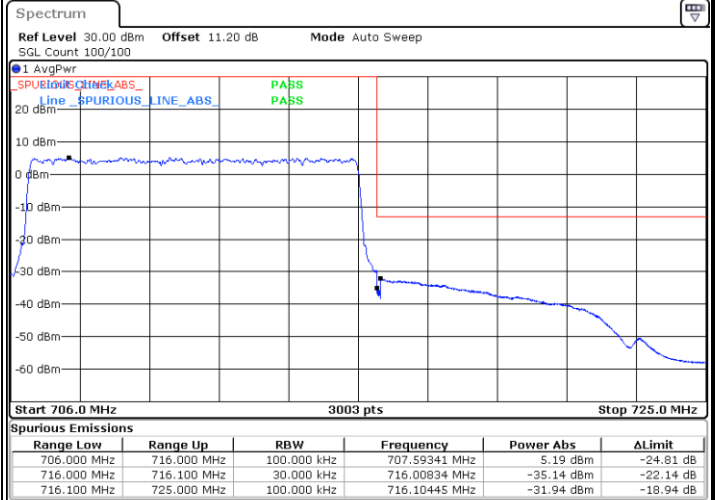
Date: 17 JUN 2022 21:54:23

Lowest Band Edge / Full RB



Date: 17 JUN 2022 21:44:54

Highest Band Edge / Full RB

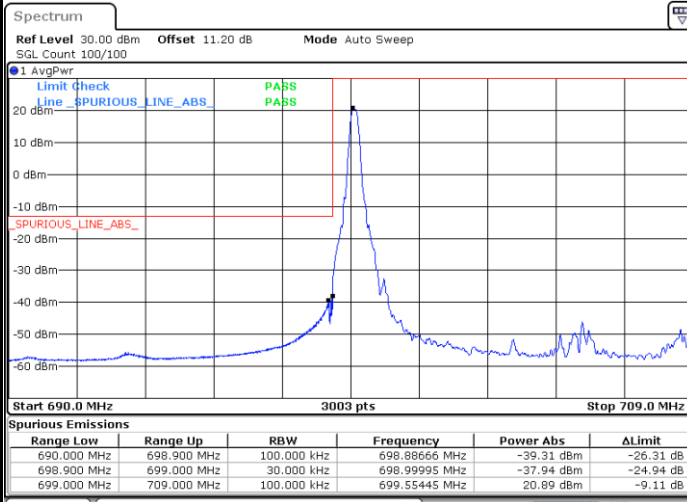


Date: 17 JUN 2022 21:51:54



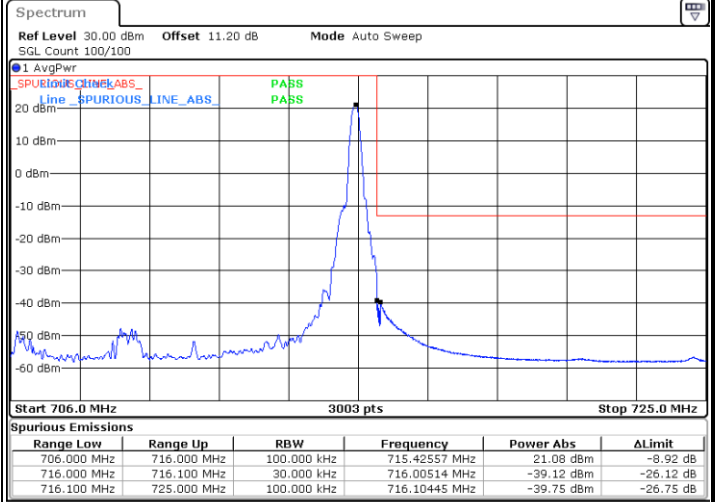
LTE Band 12 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



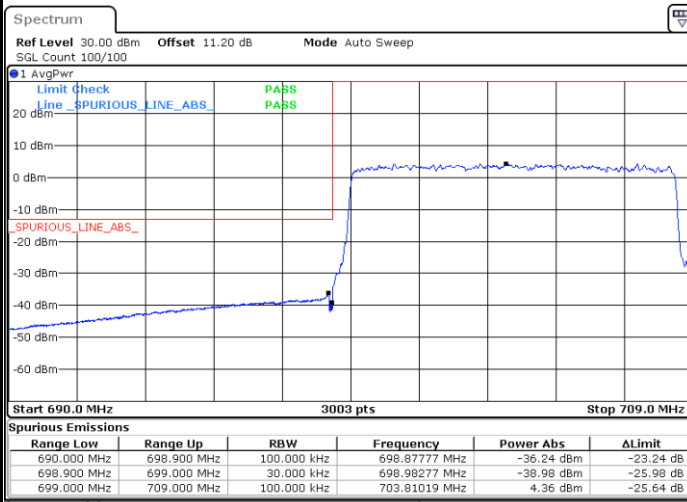
Date: 17 JUN 2022 21:46:34

Highest Band Edge / 1 RB



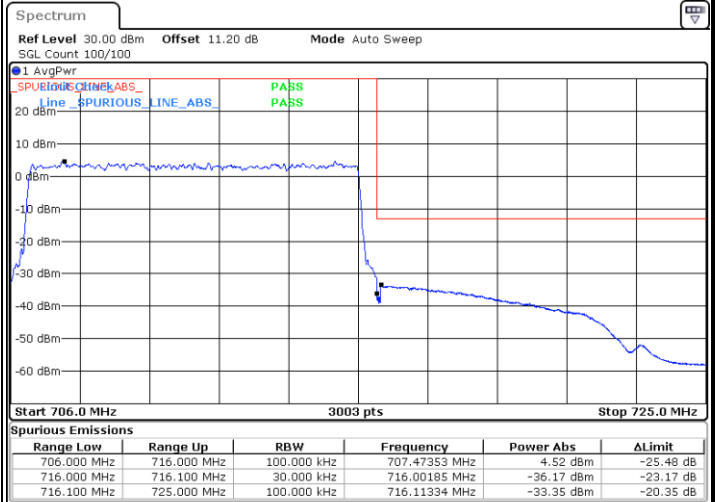
Date: 17 JUN 2022 21:53:34

Lowest Band Edge / Full RB



Date: 17 JUN 2022 21:45:44

Highest Band Edge / Full RB

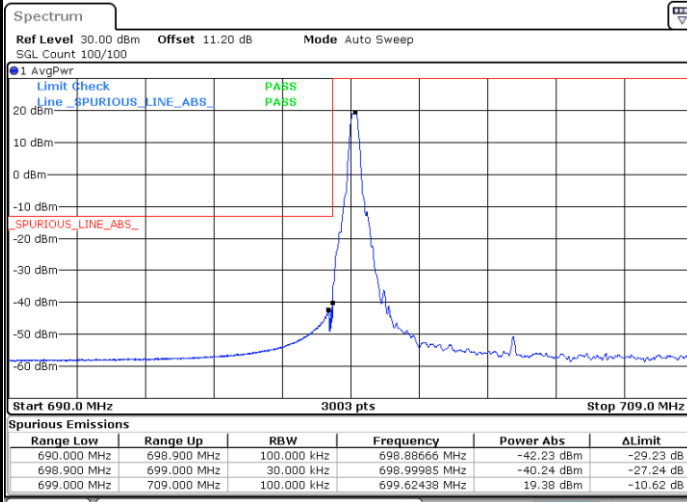


Date: 17 JUN 2022 21:52:44



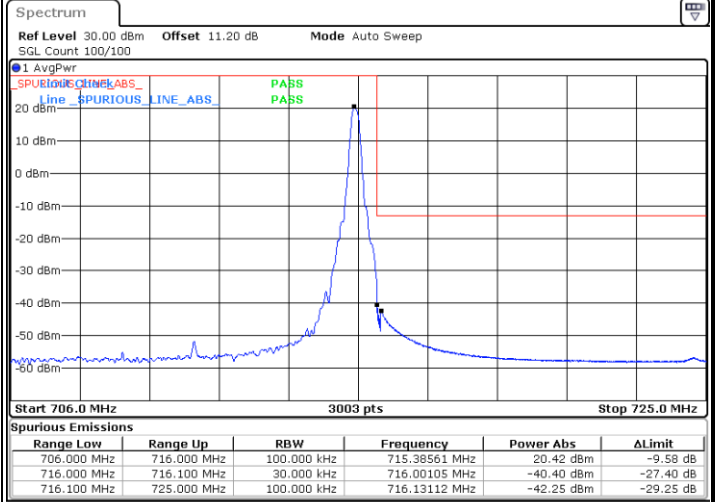
LTE Band 12 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



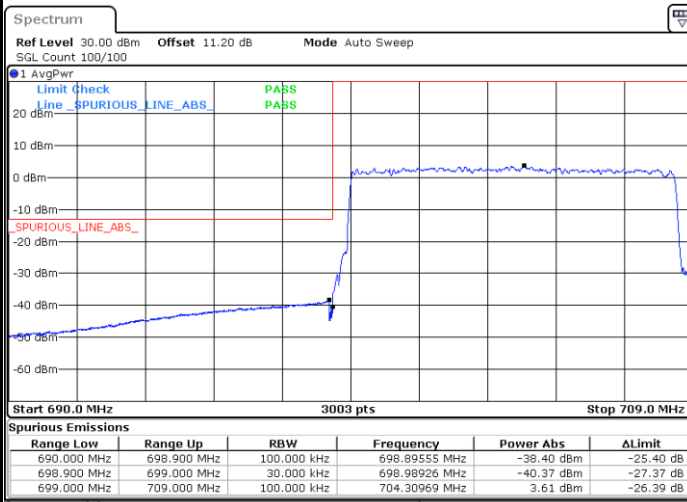
Date: 17 JUN 2022 21:57:12

Highest Band Edge / 1 RB



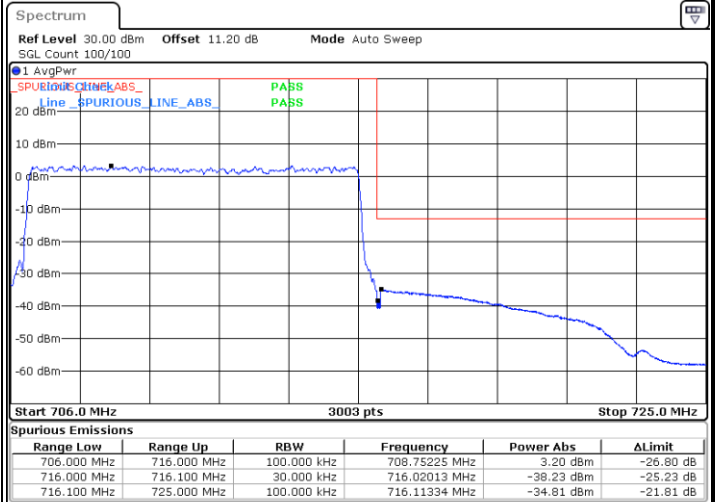
Date: 17 JUN 2022 21:59:34

Lowest Band Edge / Full RB



Date: 17 JUN 2022 21:56:22

Highest Band Edge / Full RB

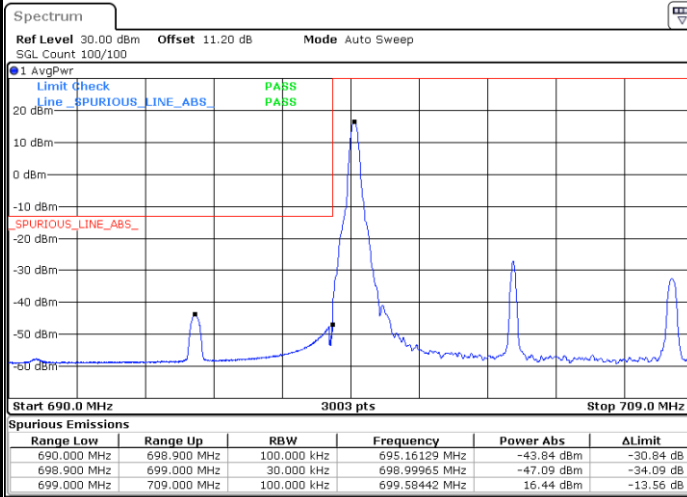


Date: 17 JUN 2022 21:58:45



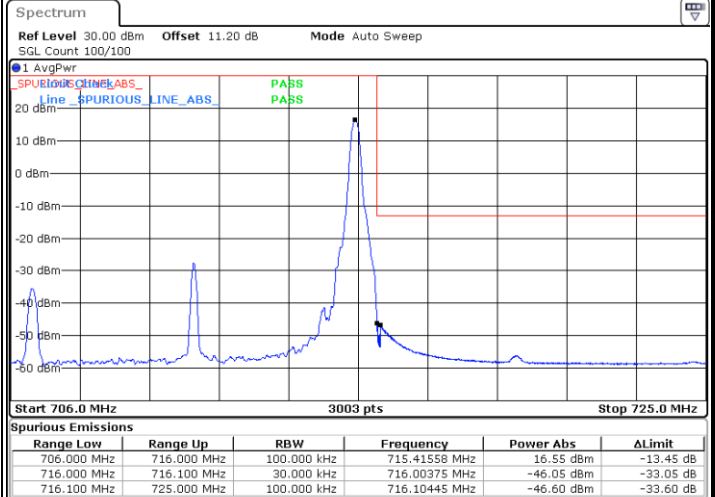
LTE Band 12 / 10MHz / 256QAM

Lowest Band Edge / 1 RB



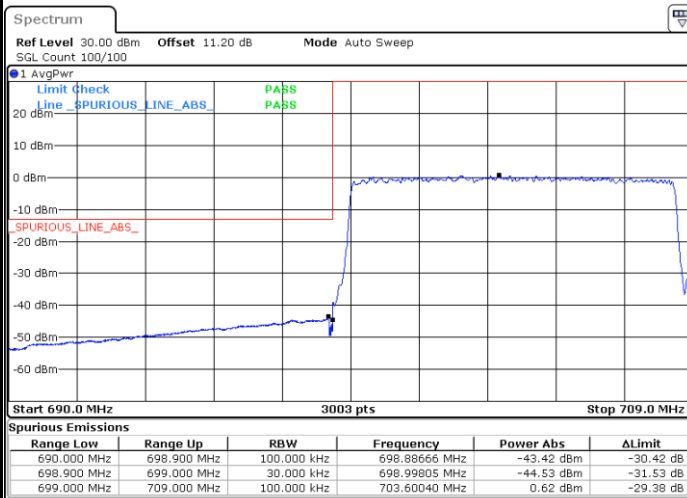
Date: 21.JUN.2022 00:24:29

Highest Band Edge / 1 RB



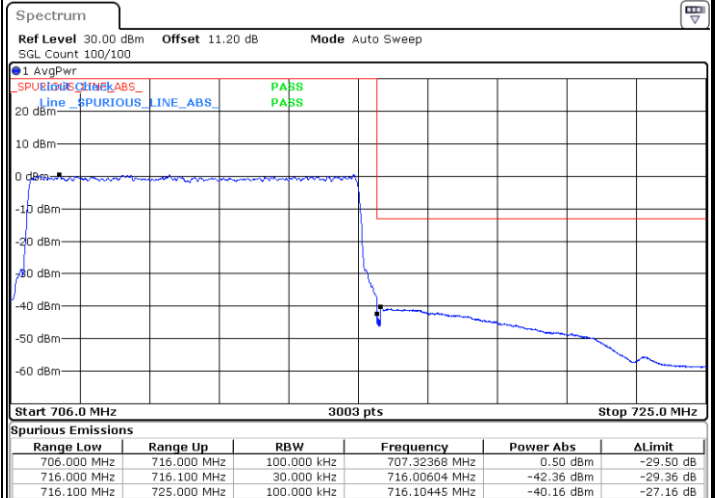
Date: 21.JUN.2022 00:48:38

Lowest Band Edge / Full RB



Date: 21.JUN.2022 00:28:16

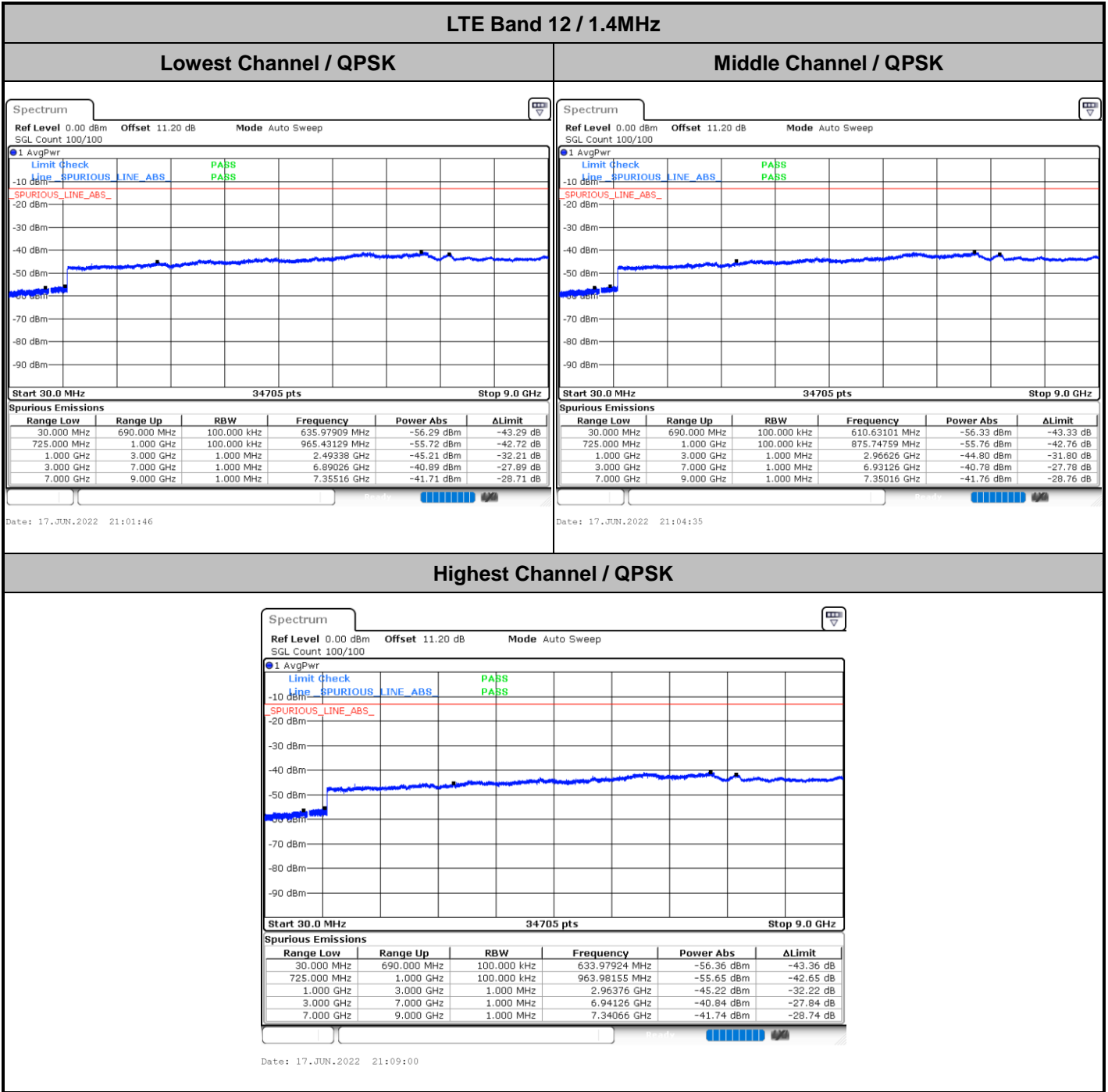
Highest Band Edge / Full RB



Date: 21.JUN.2022 00:45:55



Conducted Spurious Emission

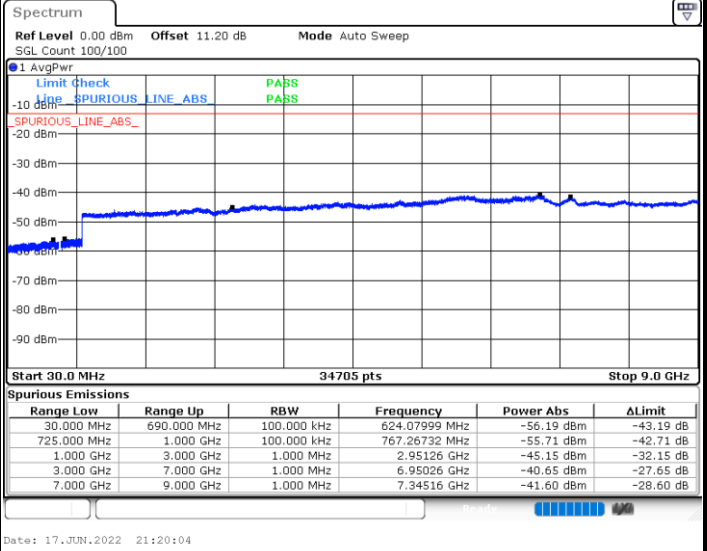
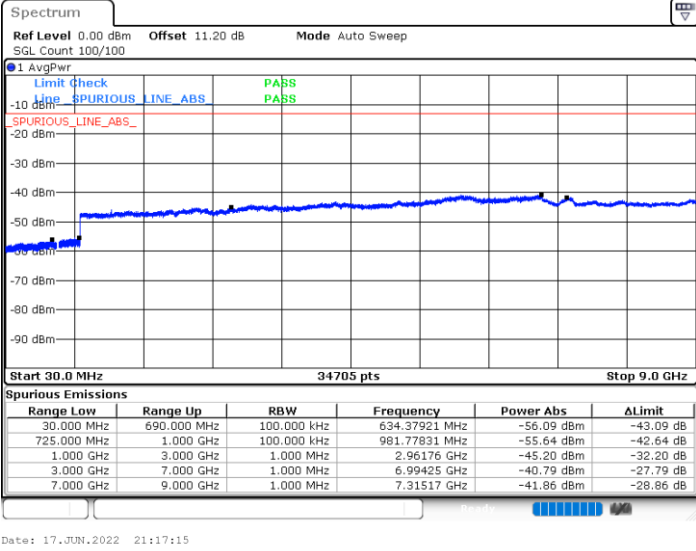




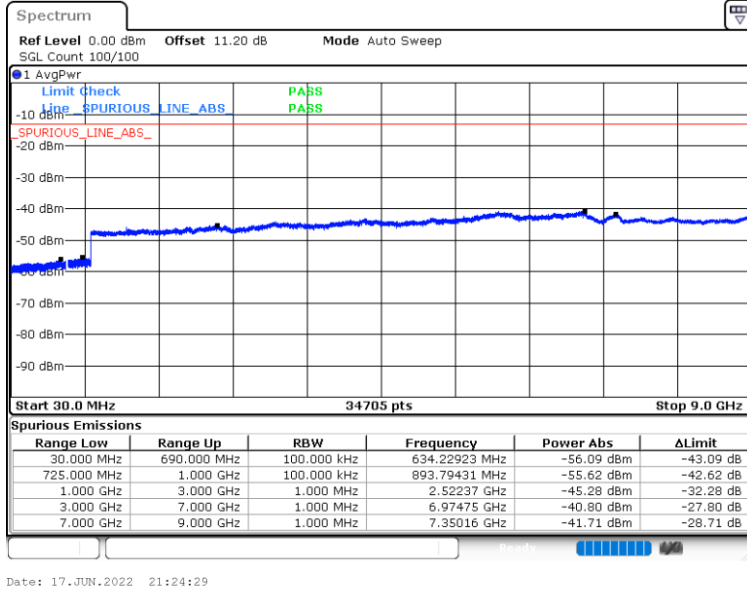
LTE Band 12 / 3MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK

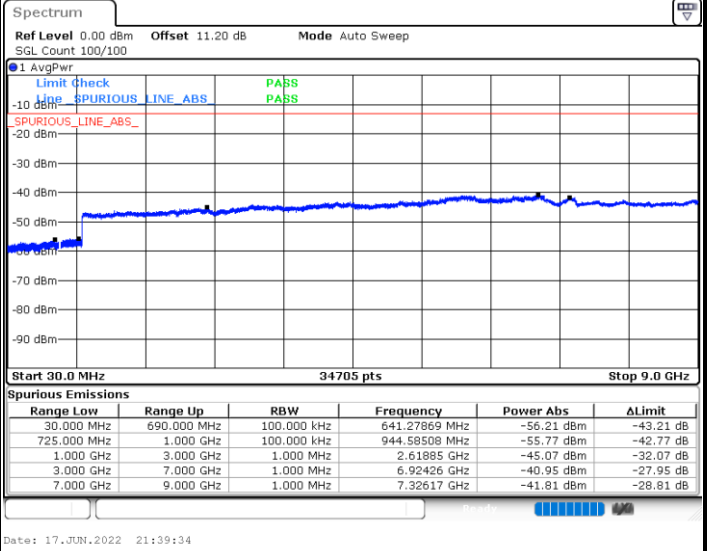
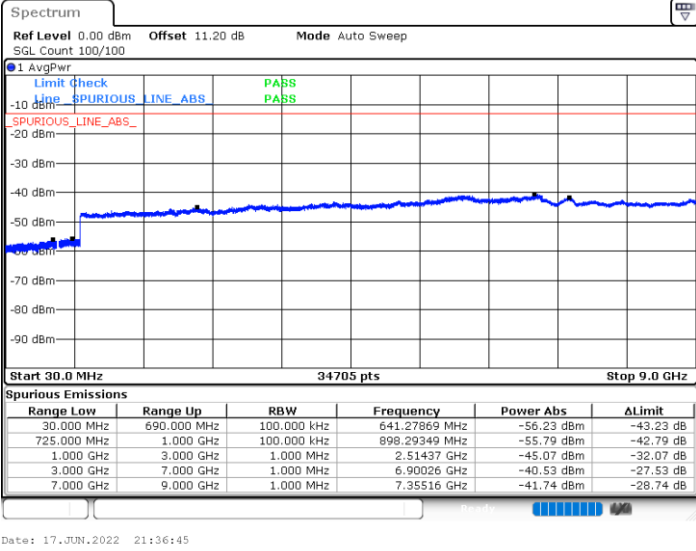




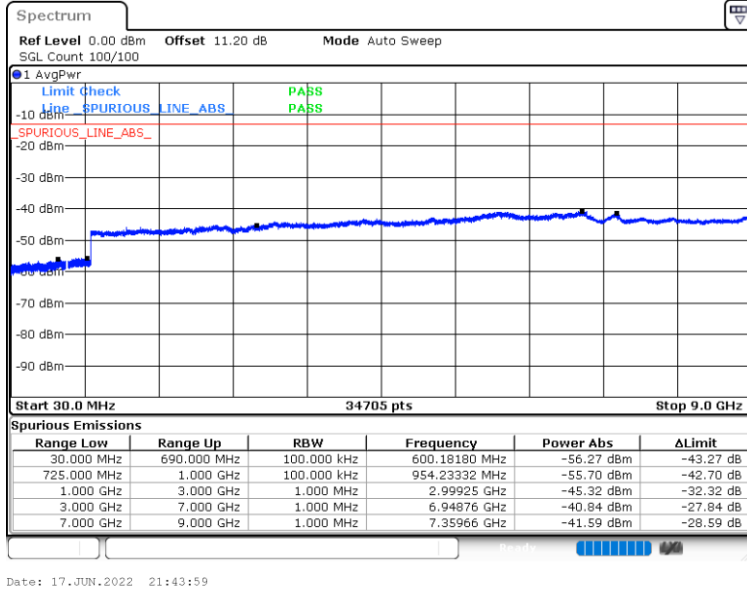
LTE Band 12 / 5MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK

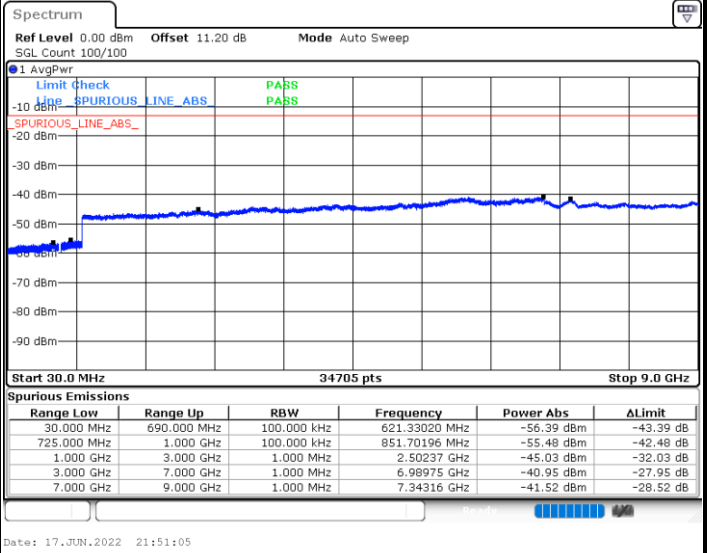
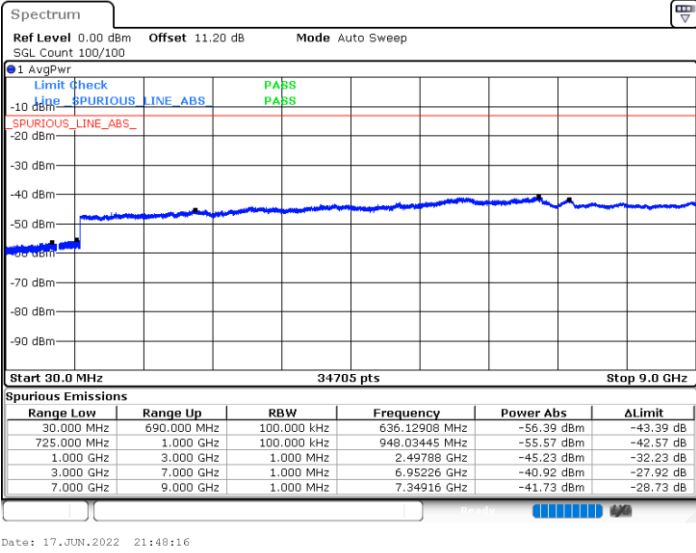




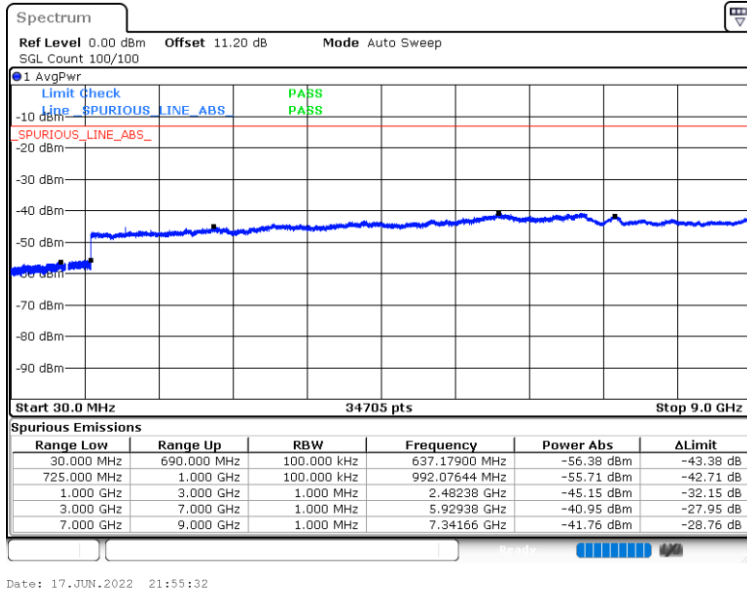
LTE Band 12 / 10MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK





Frequency Stability

Test Conditions		LTE Band 12 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0168	PASS
40	Normal Voltage	0.0170	
30	Normal Voltage	0.0219	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0168	
0	Normal Voltage	0.0018	
-10	Normal Voltage	0.0023	
-20	Normal Voltage	0.0000	
-30	Normal Voltage	0.0165	
20	Maximum Voltage	0.0137	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0078	

Note:

1. Normal Voltage = 3.8 V. ; Battery End Point (BEP) = 3.4 V. ; Maximum Voltage = 4.2 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 13

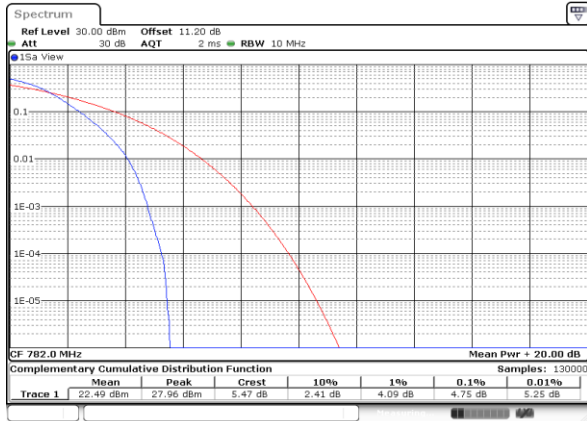
Peak-to-Average Ratio

Mode	LTE Band 13 / 10MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.75	5.77	6.38	6.61	PASS



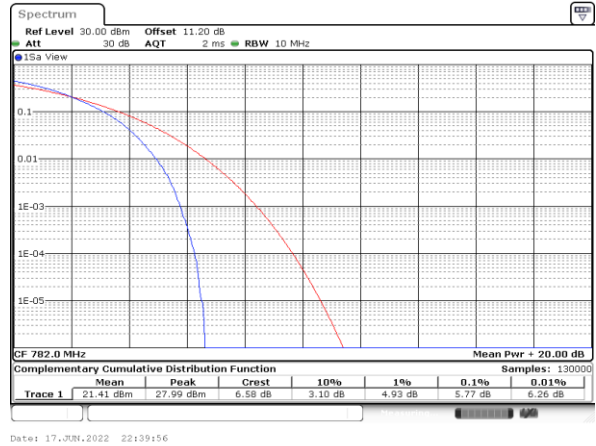
LTE Band 13 / 10MHz / QPSK

Middle Channel / Full RB



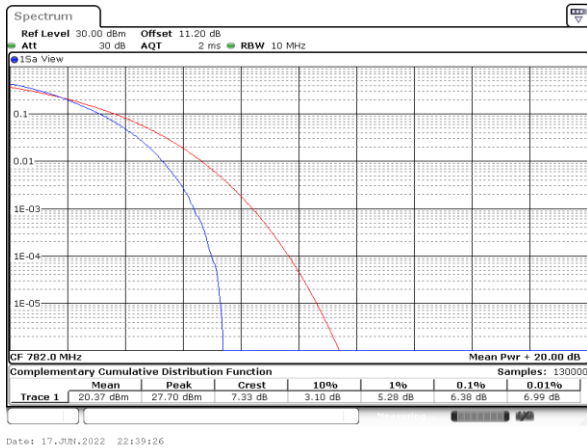
LTE Band 13 / 10MHz / 16QAM

Middle Channel / Full RB



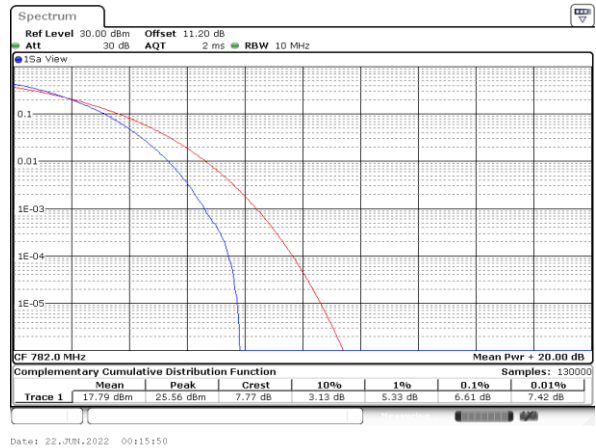
LTE Band 13 / 10MHz / 64QAM

Middle Channel / Full RB



LTE Band 13 / 10MHz / 256QAM

Middle Channel / Full RB





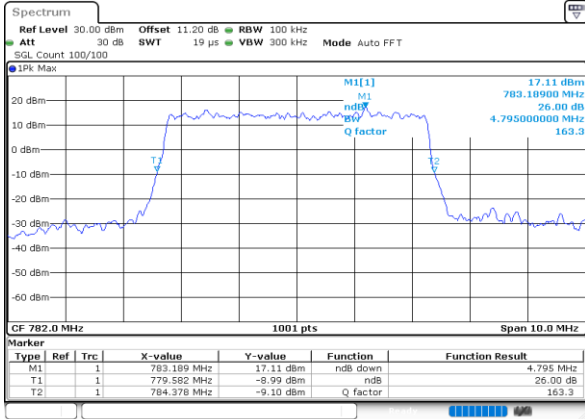
26dB Bandwidth

Mode	LTE Band 13 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	4.80	4.83	9.65	9.89	-	-	-	-
Mode	LTE Band 13 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	-	-	-	-	4.90	4.89	9.83	9.71	-	-	-	-



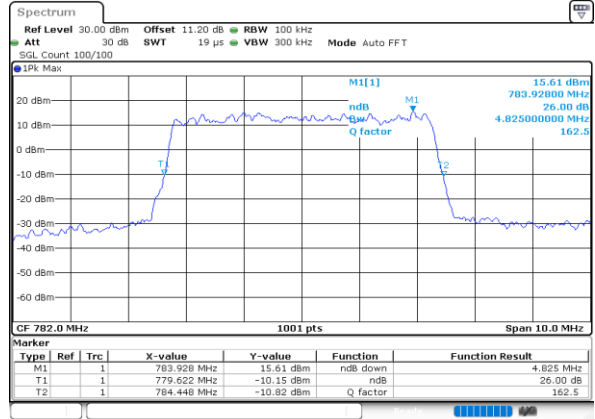
LTE Band 13

Middle Channel / 5MHz / QPSK



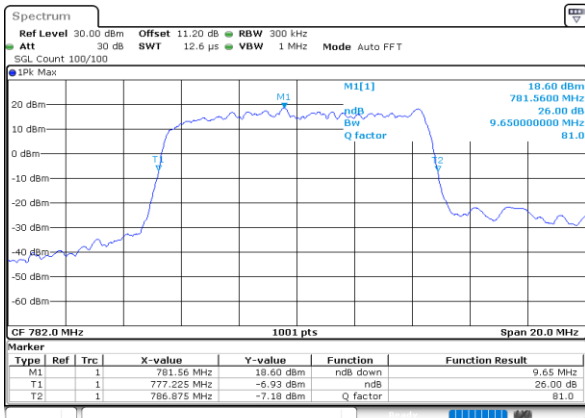
Date: 17 JUN 2022 22:18:57

Middle Channel / 5MHz / 16QAM



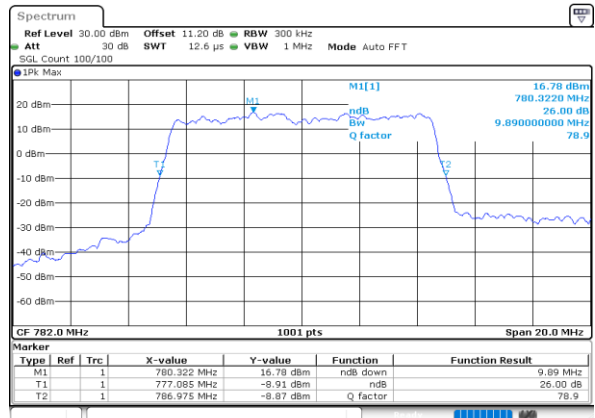
Date: 17 JUN 2022 22:19:25

Middle Channel / 10MHz / QPSK



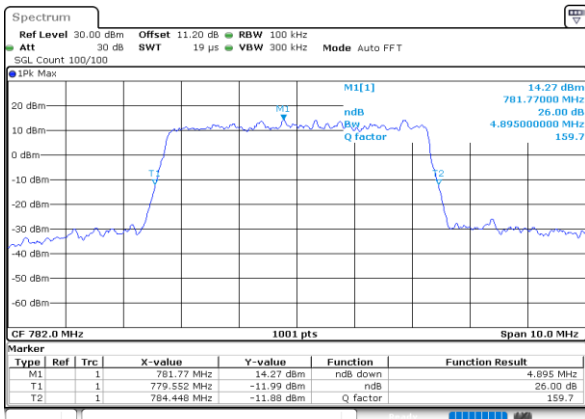
Date: 17 JUN 2022 22:30:18

Middle Channel / 10MHz / 16QAM



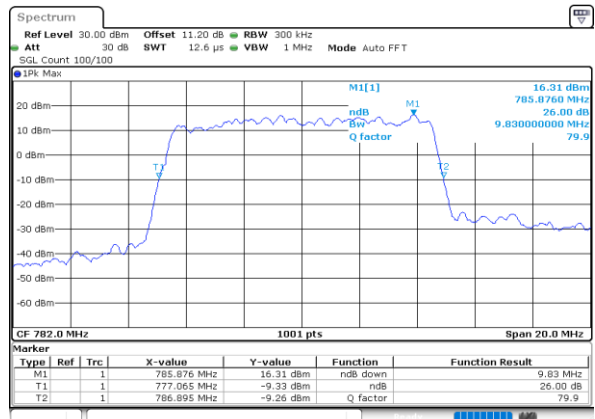
Date: 17 JUN 2022 22:29:49

Middle Channel / 5MHz / 64QAM



Date: 17 JUN 2022 22:26:39

Middle Channel / 10MHz / 64QAM



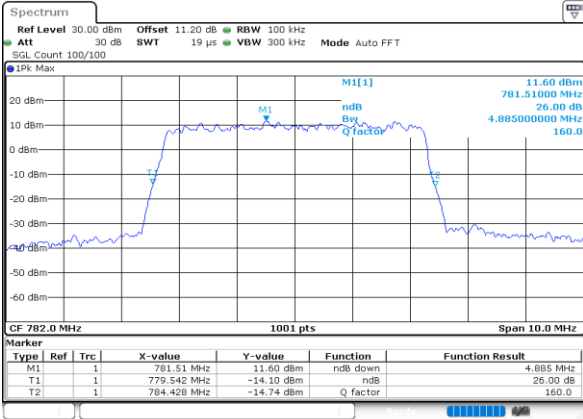
Date: 17 JUN 2022 22:36:45



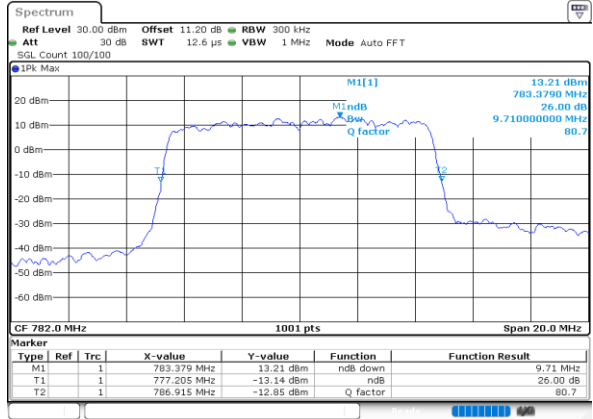
LTE Band 13

Middle Channel / 5MHz / 256QAM

Middle Channel / 10MHz / 256QAM



Date: 21 JUN 2022 23:52:57



Date: 22 JUN 2022 00:10:34



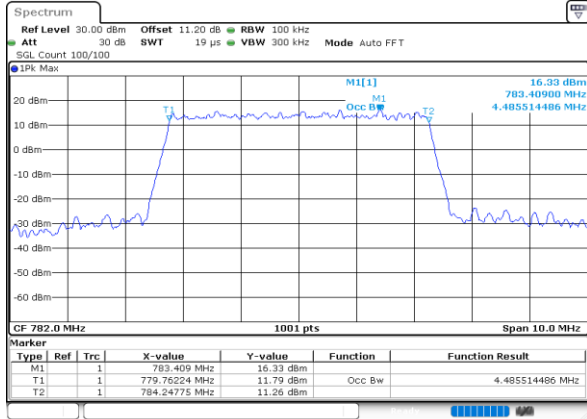
Occupied Bandwidth

Mode	LTE Band 13 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	4.49	4.49	8.93	8.93	-	-	-	-
Mode	LTE Band 13 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	-	-	-	-	4.50	4.49	9.01	8.99	-	-	-	-



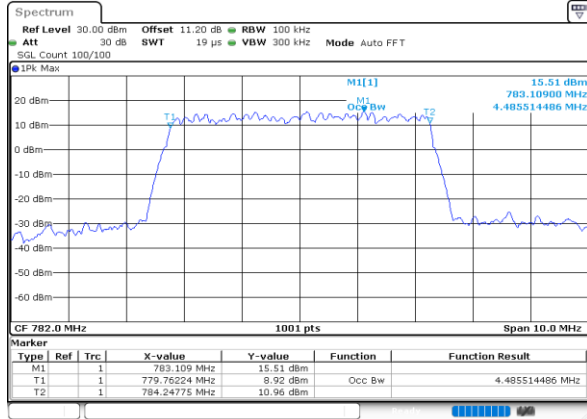
LTE Band 13

Middle Channel / 5MHz / QPSK



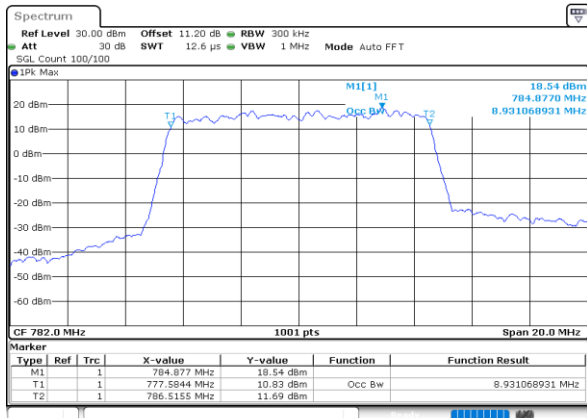
Date: 17 JUN 2022 22:20:08

Middle Channel / 5MHz / 16QAM



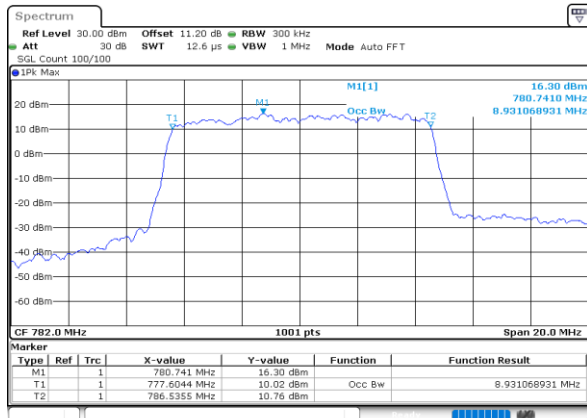
Date: 17 JUN 2022 22:19:39

Middle Channel / 10MHz / QPSK



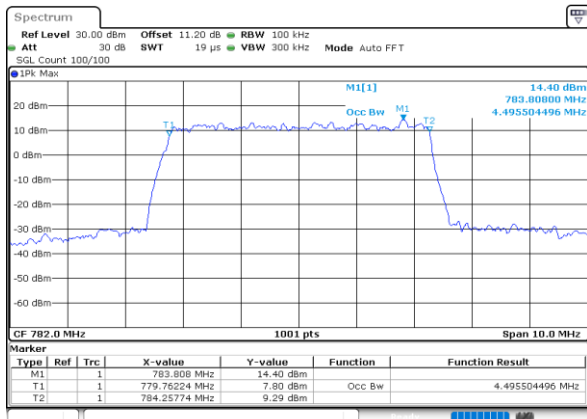
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Middle Channel / 10MHz / 16QAM



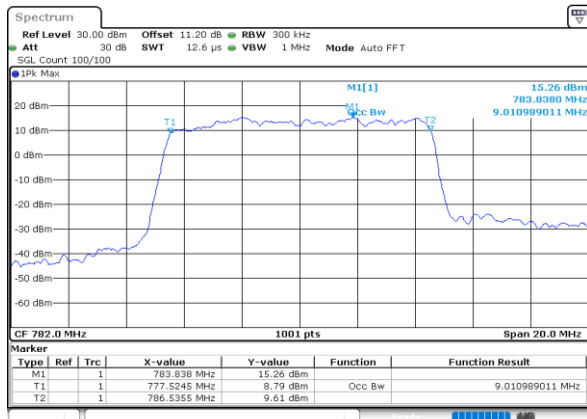
Date: 17 JUN 2022 22:29:35

Middle Channel / 5MHz / 64QAM



Date: 17 JUN 2022 22:26:54

Middle Channel / 10MHz / 64QAM



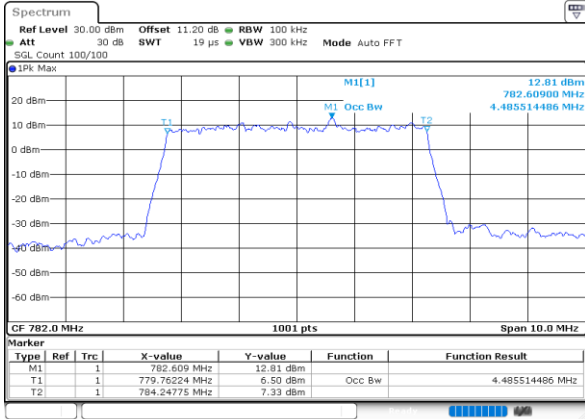
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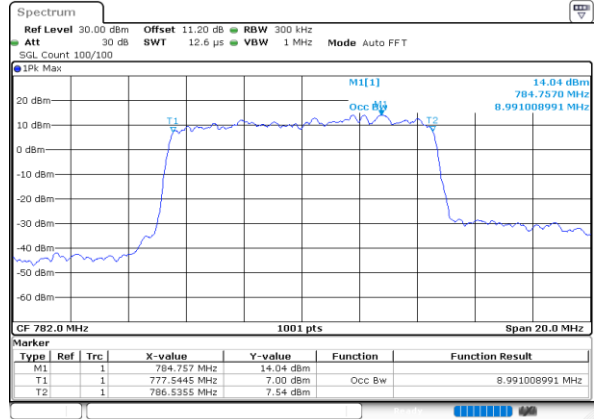
LTE Band 13

Middle Channel / 5MHz / 256QAM

Middle Channel / 10MHz / 256QAM



Date: 21.JUN.2022 23:51:01



Date: 22.JUN.2022 00:09:11