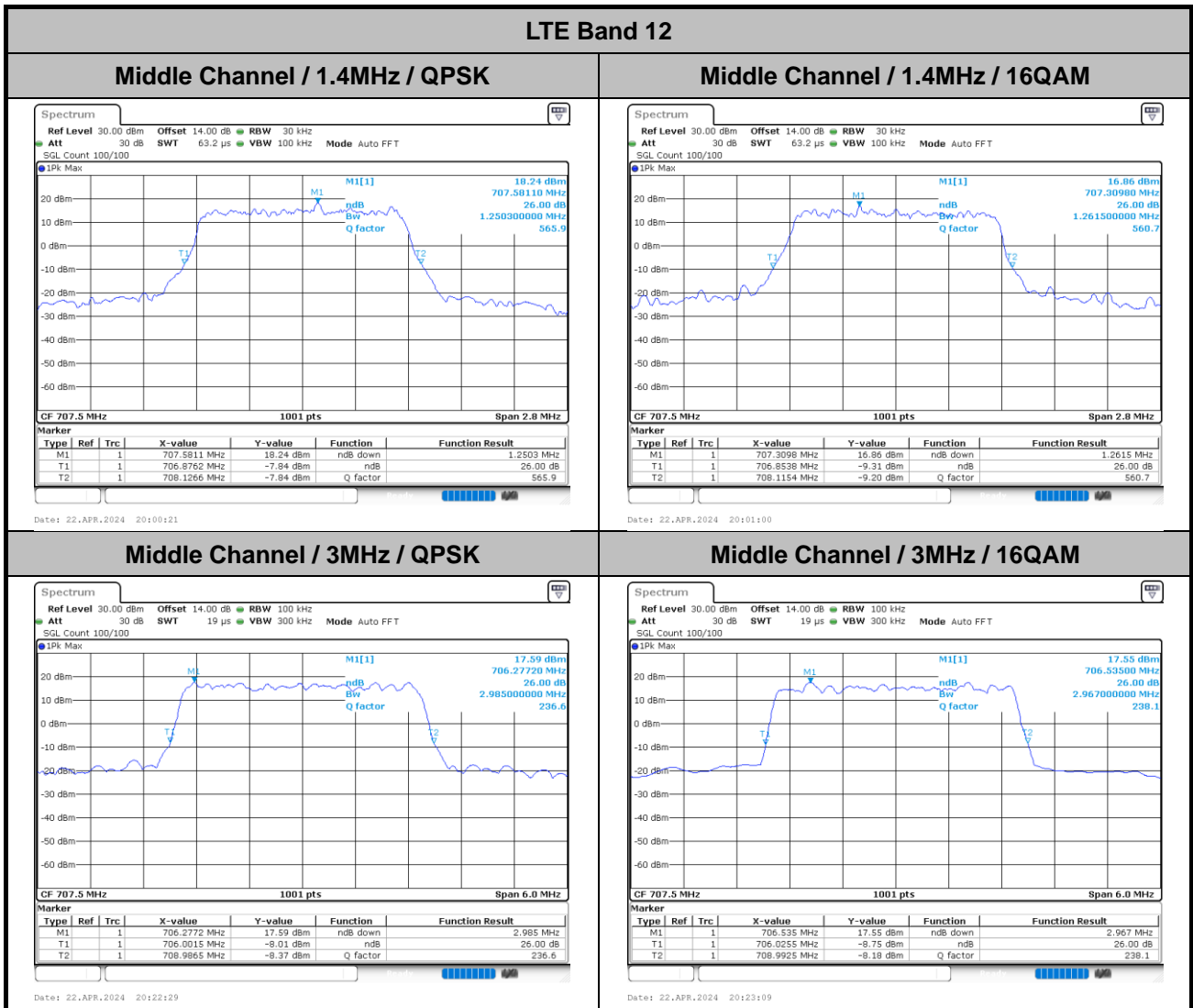




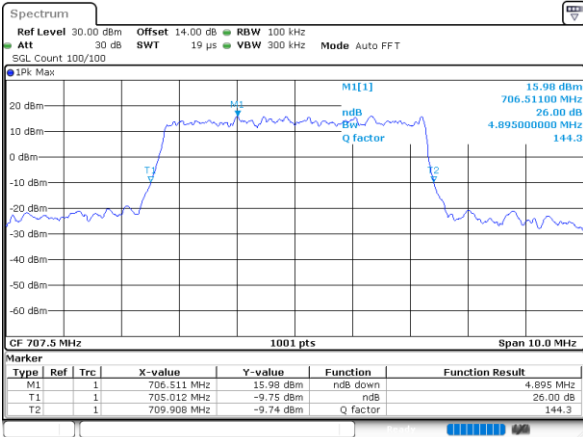
26dB Bandwidth

Mode	LTE Band 12 : 26dB BW(MHz)							
BW	1.4MHz		3MHz		5MHz		10MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	1.25	1.26	2.99	2.97	4.90	4.91	9.73	9.75



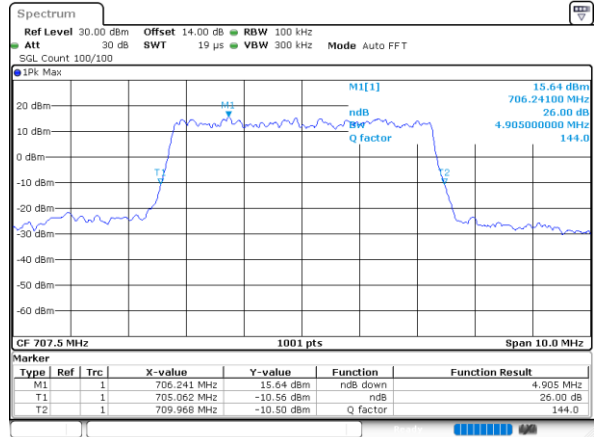


Middle Channel / 5MHz / QPSK



Date: 22.APR.2024 20:44:38

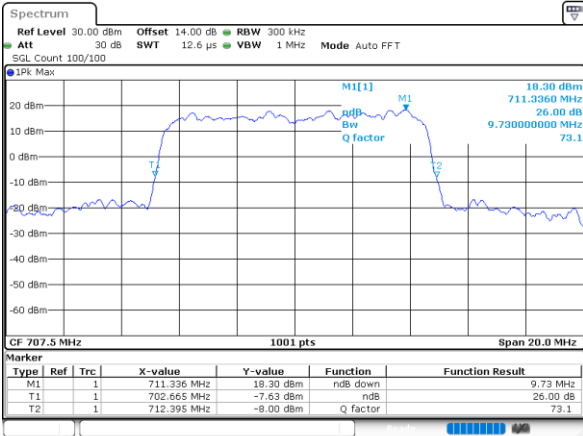
Middle Channel / 5MHz / 16QAM



Date: 22.APR.2024 20:45:17

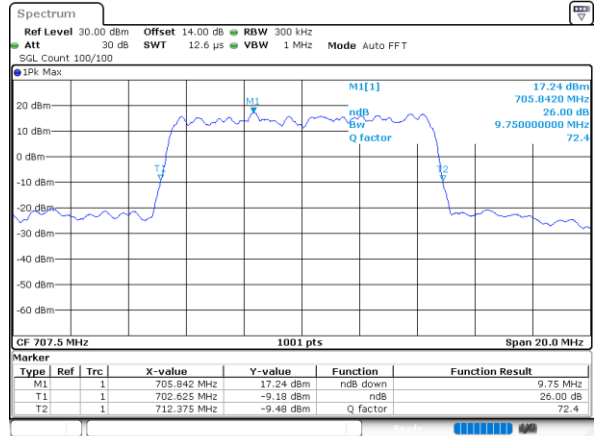
LTE Band 12

Middle Channel / 10MHz / QPSK



Date: 22.APR.2024 21:06:46

Middle Channel / 10MHz / 16QAM

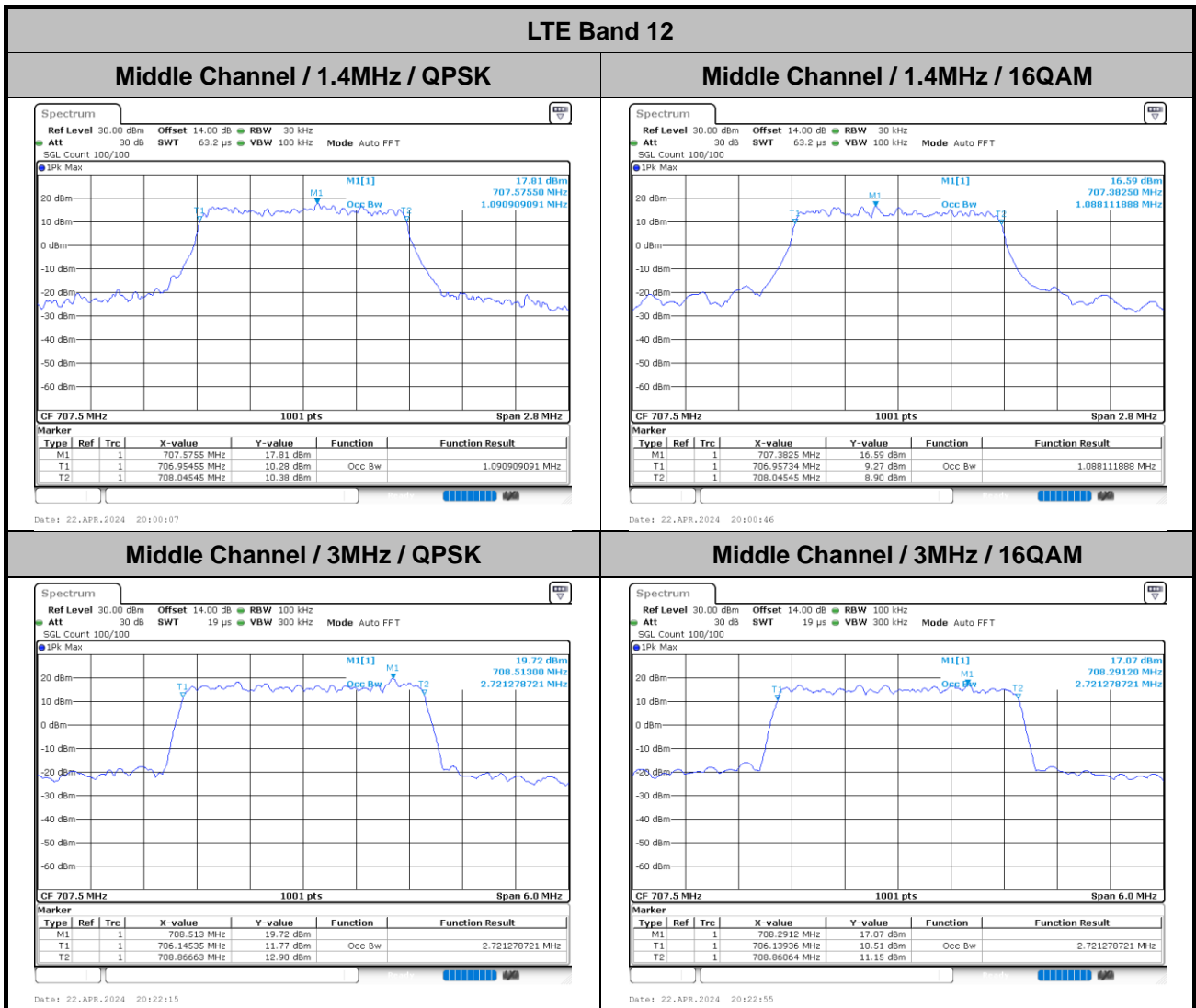


Date: 22.APR.2024 21:07:25



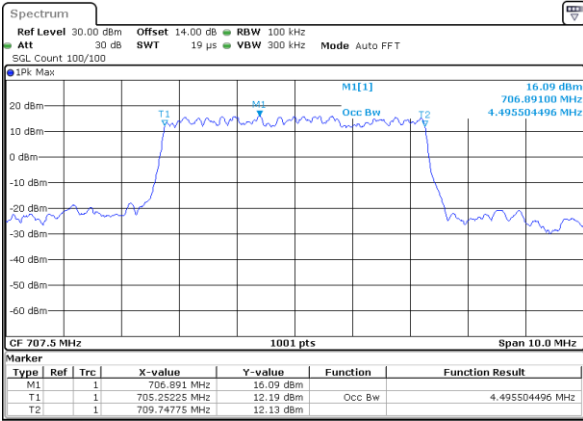
Occupied Bandwidth

Mode	LTE Band 12 : 99%OBW(MHz)							
BW	1.4MHz		3MHz		5MHz		10MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	1.09	1.09	2.72	2.72	4.50	4.47	8.99	9.07



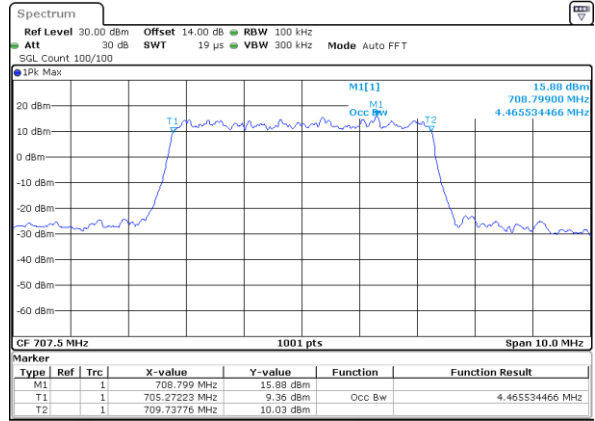


Middle Channel / 5MHz / QPSK



Date: 22.APR.2024 20:44:24

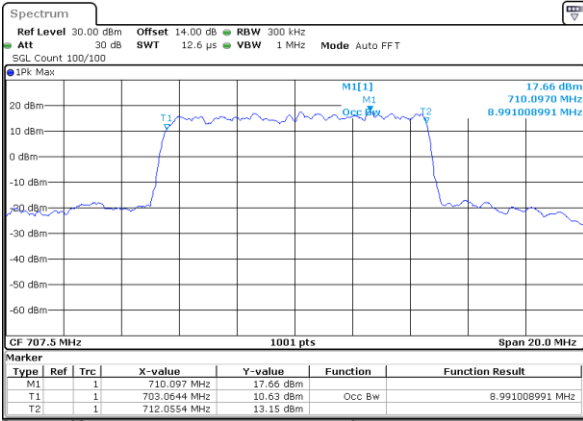
Middle Channel / 5MHz / 16QAM



Date: 22.APR.2024 20:45:03

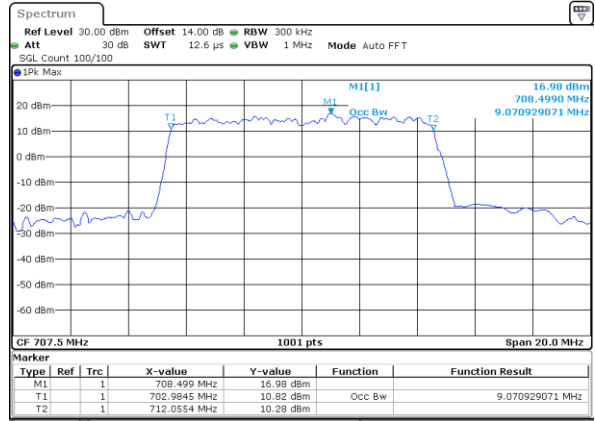
LTE Band 12

Middle Channel / 10MHz / QPSK



Date: 22.APR.2024 21:06:32

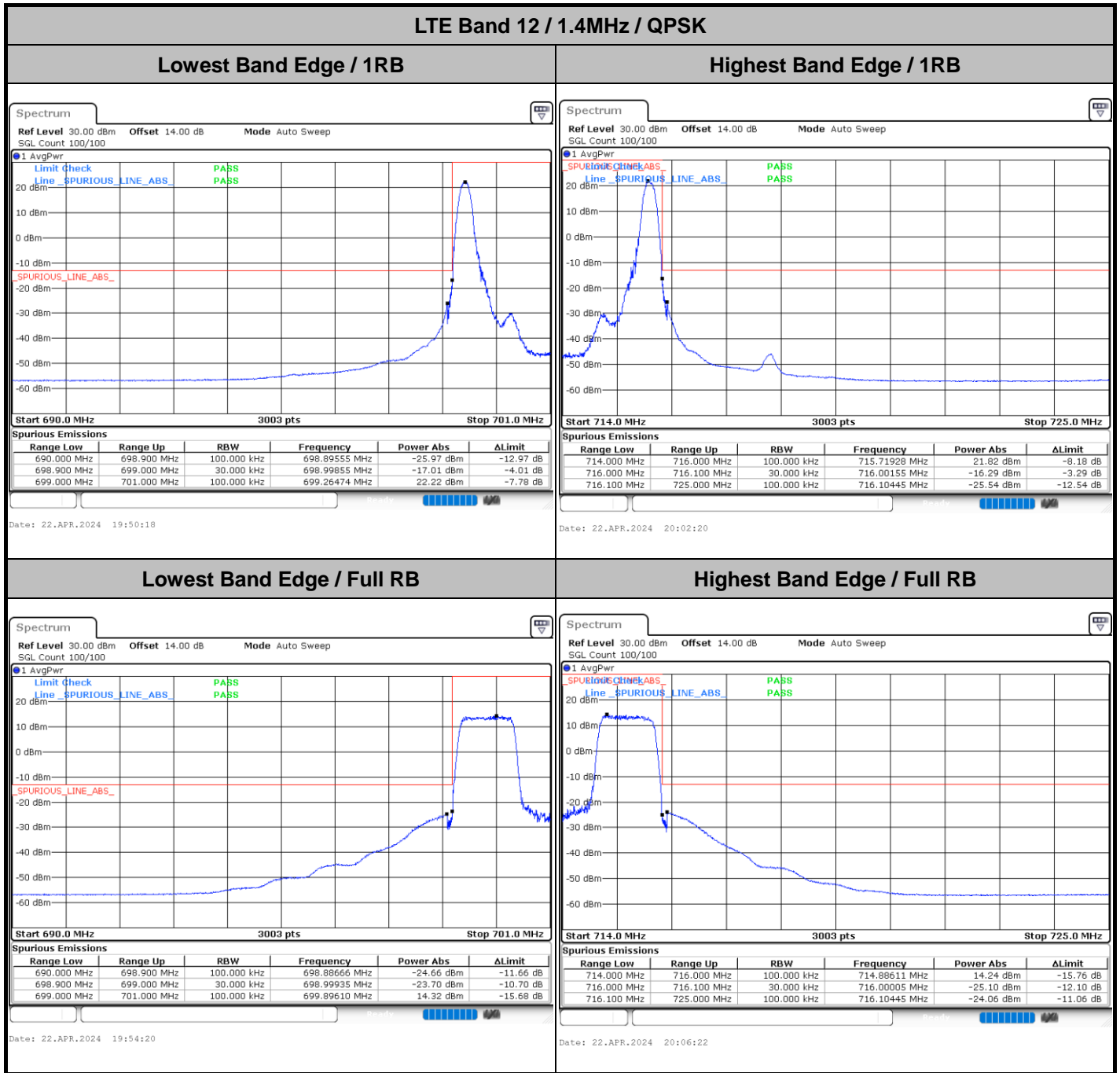
Middle Channel / 10MHz / 16QAM



Date: 22.APR.2024 21:07:11



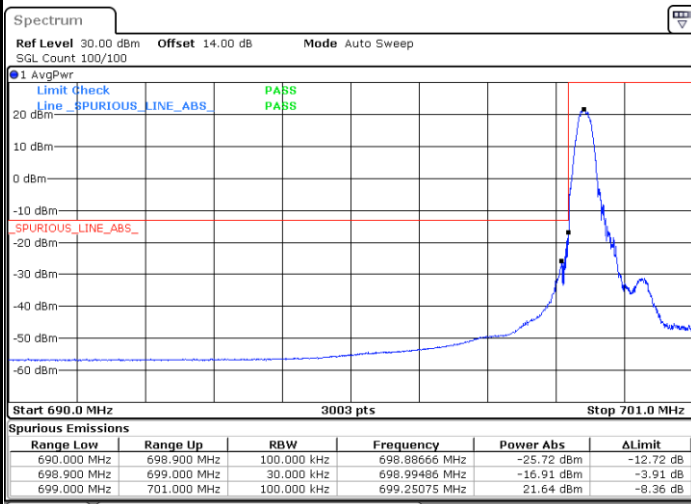
Conducted Band Edge





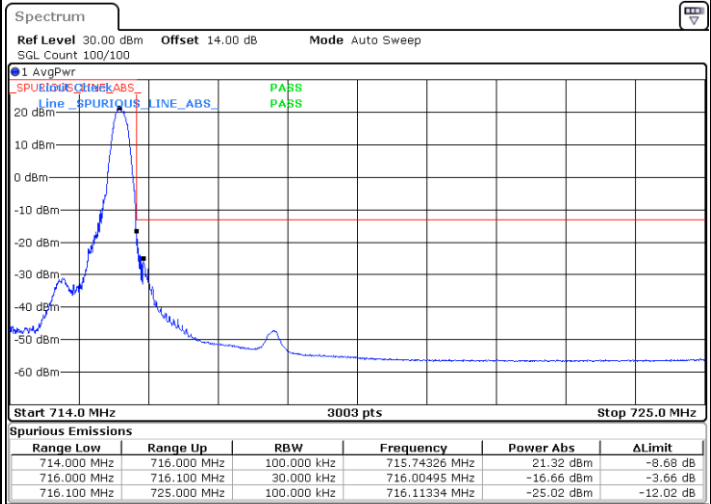
LTE Band 12 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



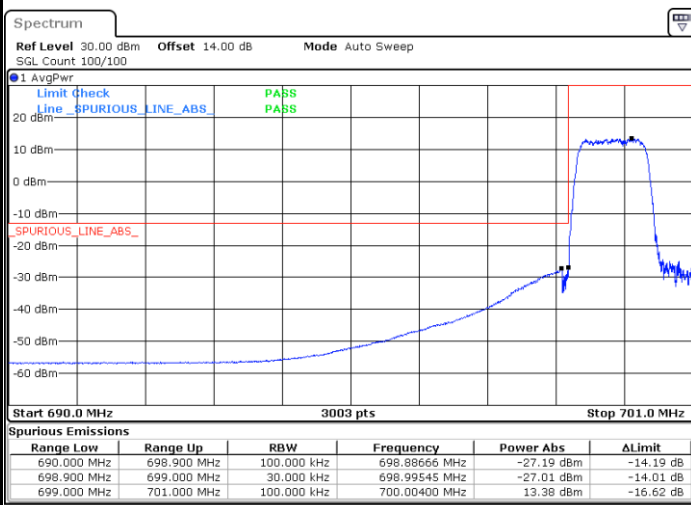
Date: 22.APR.2024 19:51:39

Highest Band Edge / 1 RB



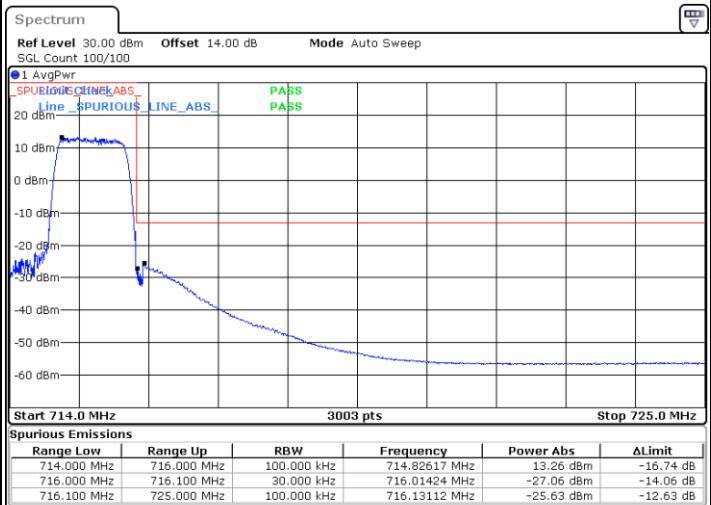
Date: 22.APR.2024 20:03:41

Lowest Band Edge / Full RB



Date: 22.APR.2024 19:55:41

Highest Band Edge / Full RB

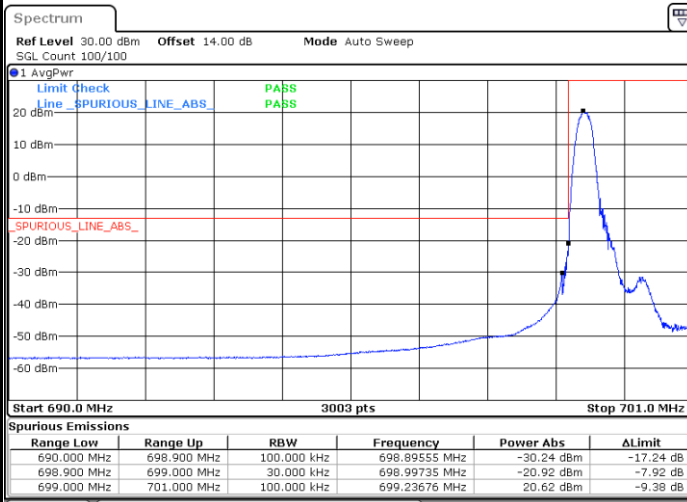


Date: 22.APR.2024 20:07:43



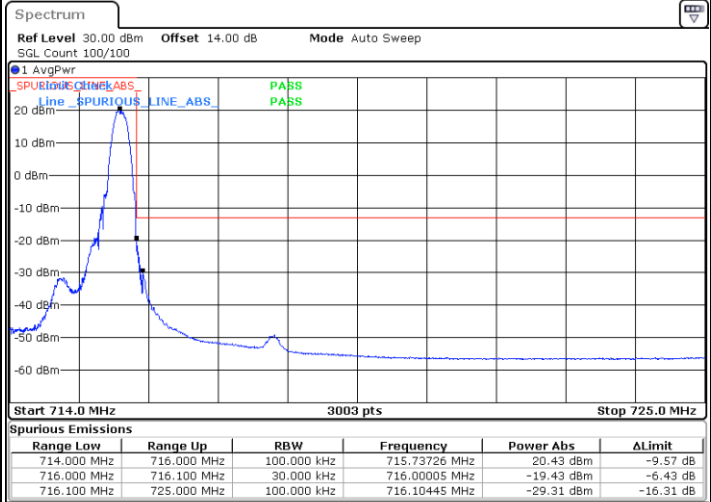
LTE Band 12 / 1.4MHz / 64QAM

Lowest Band Edge / 1 RB



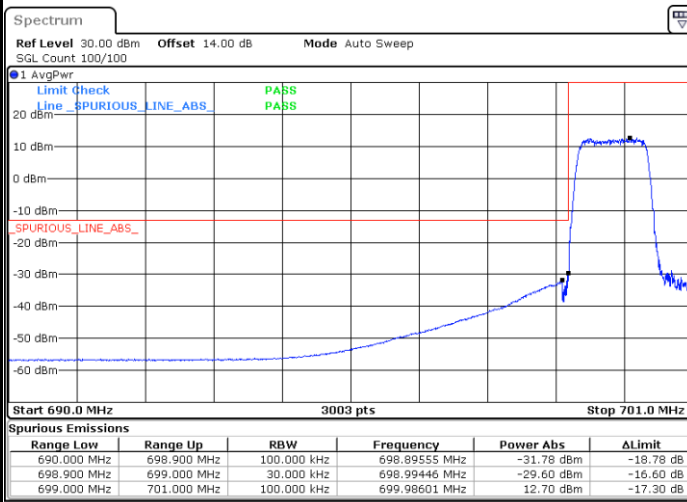
Date: 22.APR.2024 19:52:59

Highest Band Edge / 1 RB



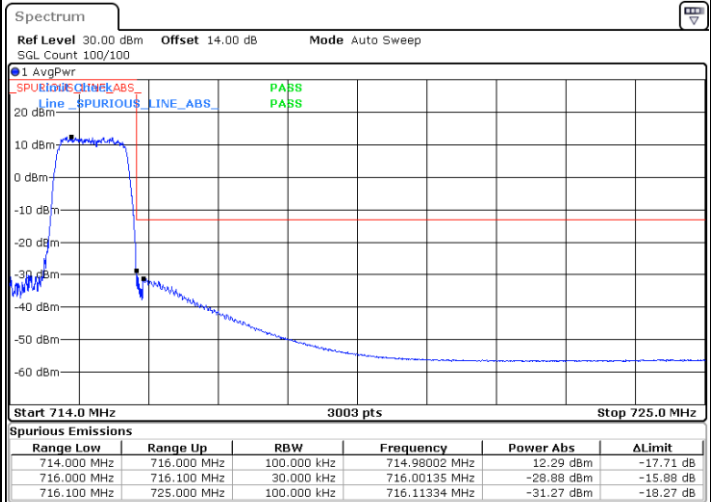
Date: 22.APR.2024 20:05:01

Lowest Band Edge / Full RB



Date: 22.APR.2024 19:57:01

Highest Band Edge / Full RB

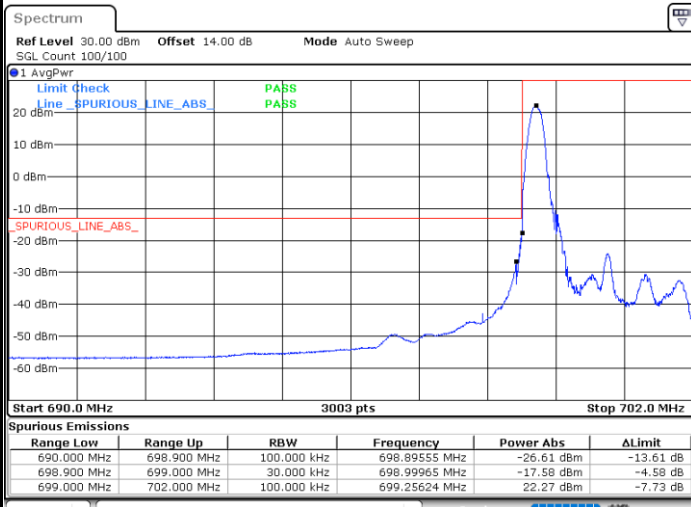


Date: 22.APR.2024 20:09:04



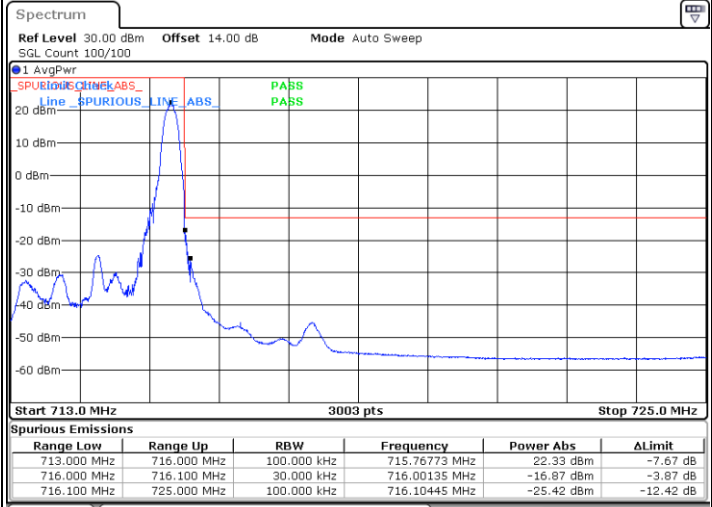
LTE Band 12 / 3MHz / QPSK

Lowest Band Edge / 1RB



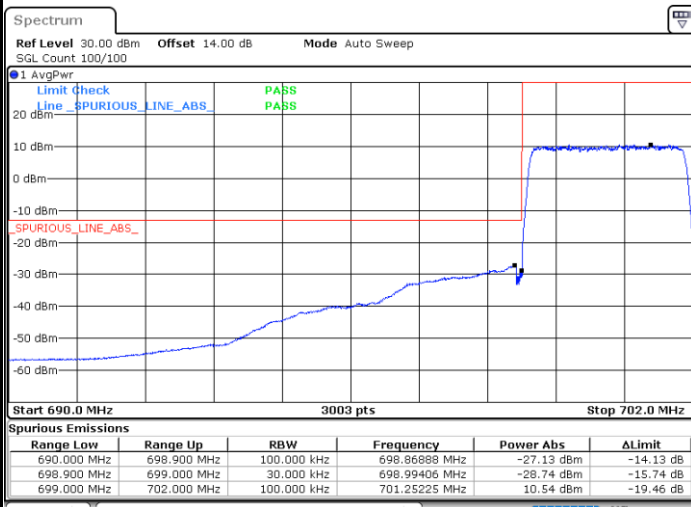
Date: 22.APR.2024 20:12:27

Highest Band Edge / 1RB



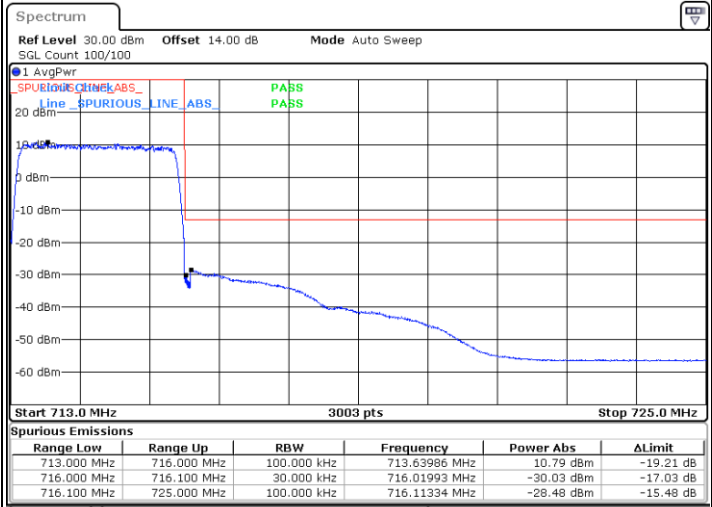
Date: 22.APR.2024 20:24:28

Lowest Band Edge / Full RB



Date: 22.APR.2024 20:16:29

Highest Band Edge / Full RB

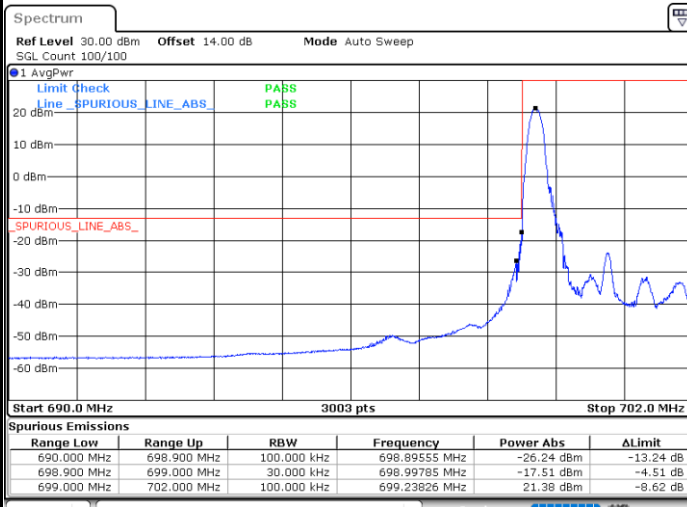


Date: 22.APR.2024 20:28:30



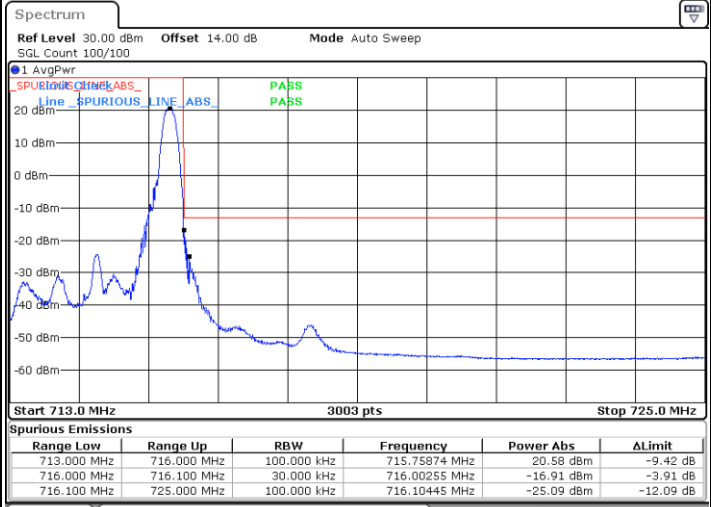
LTE Band 12 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



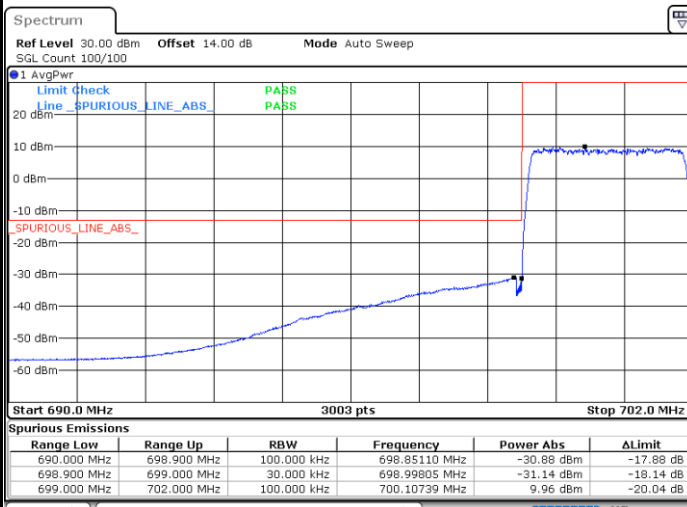
Date: 22.APR.2024 20:13:48

Highest Band Edge / 1 RB



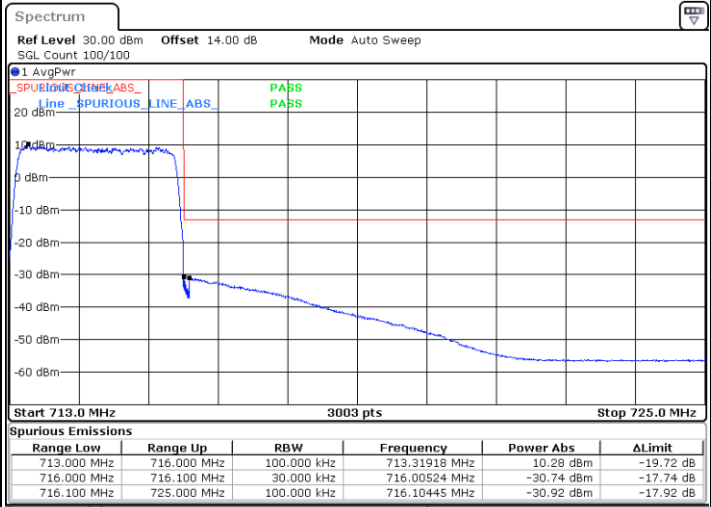
Date: 22.APR.2024 20:25:49

Lowest Band Edge / Full RB



Date: 22.APR.2024 20:17:49

Highest Band Edge / Full RB

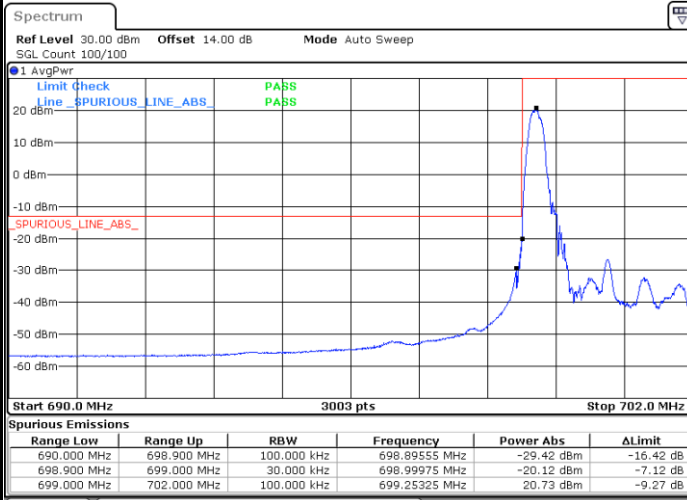


Date: 22.APR.2024 20:29:51



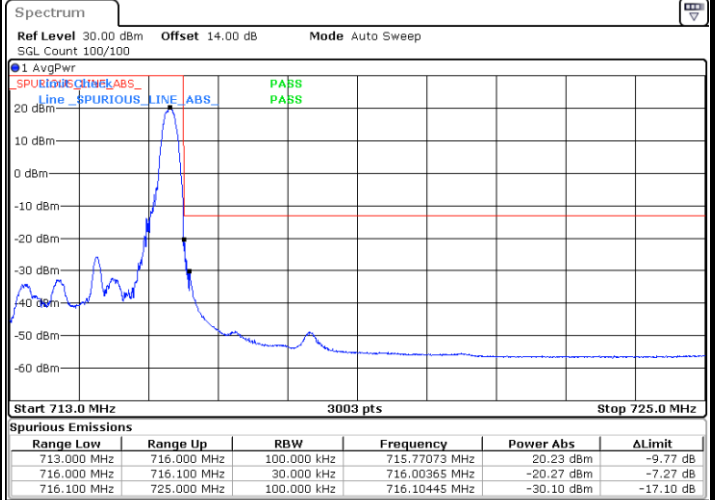
LTE Band 12 / 3MHz / 64QAM

Lowest Band Edge / 1 RB



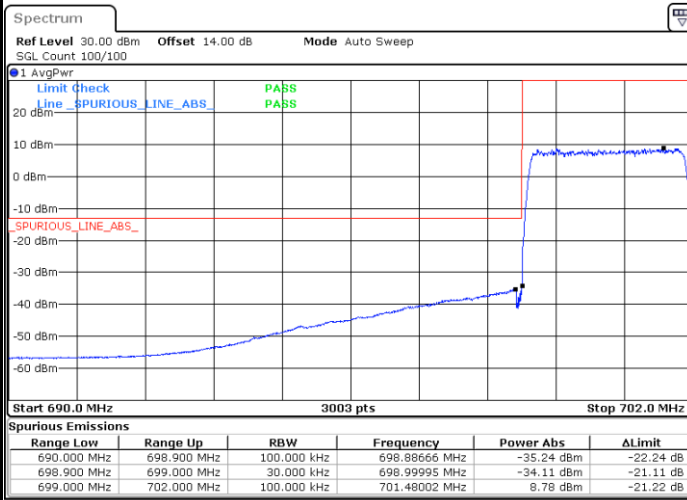
Date: 22.APR.2024 20:15:08

Highest Band Edge / 1 RB



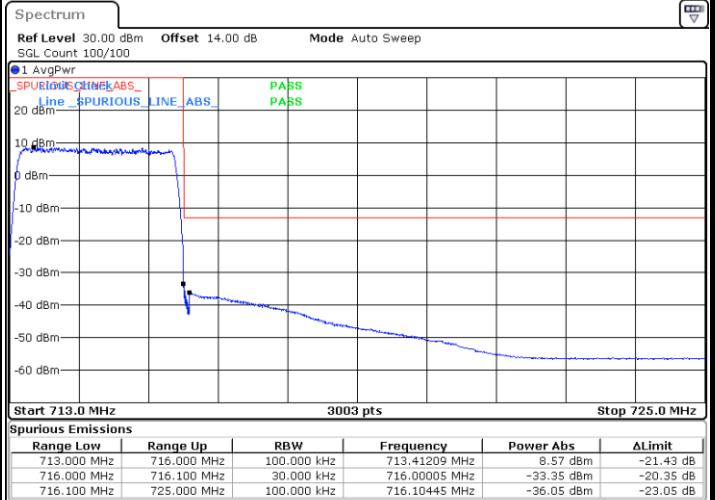
Date: 22.APR.2024 20:27:10

Lowest Band Edge / Full RB



Date: 22.APR.2024 20:19:10

Highest Band Edge / Full RB

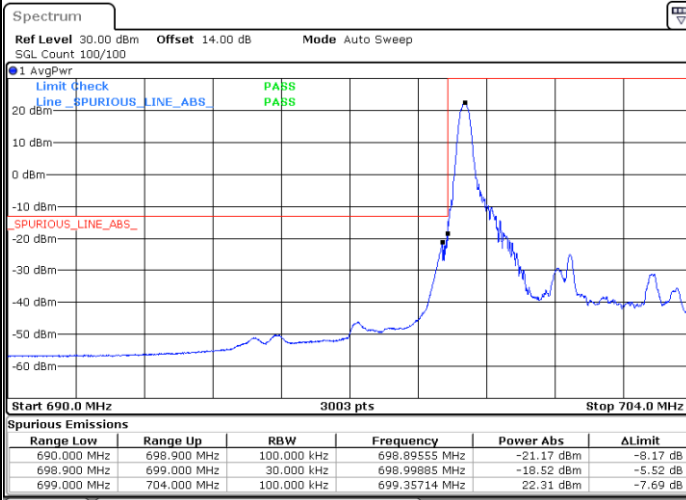


Date: 22.APR.2024 20:31:11



LTE Band 12 / 5MHz / QPSK

Lowest Band Edge / 1RB



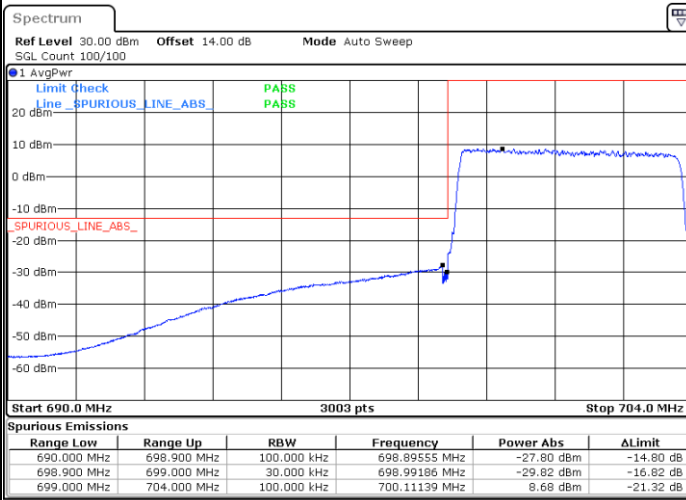
Date: 22.APR.2024 20:34:35

Highest Band Edge / 1RB



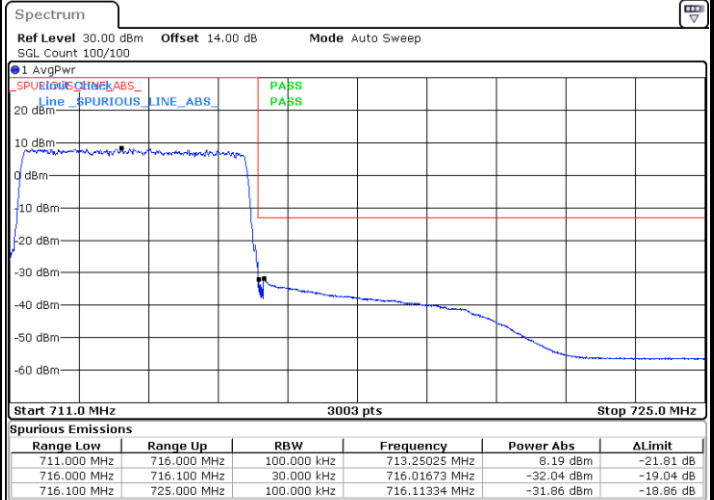
Date: 22.APR.2024 20:46:37

Lowest Band Edge / Full RB



Date: 22.APR.2024 20:38:37

Highest Band Edge / Full RB

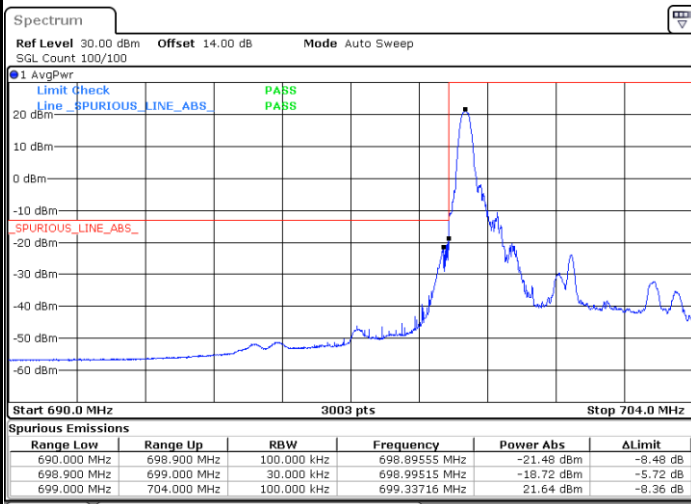


Date: 22.APR.2024 20:50:39



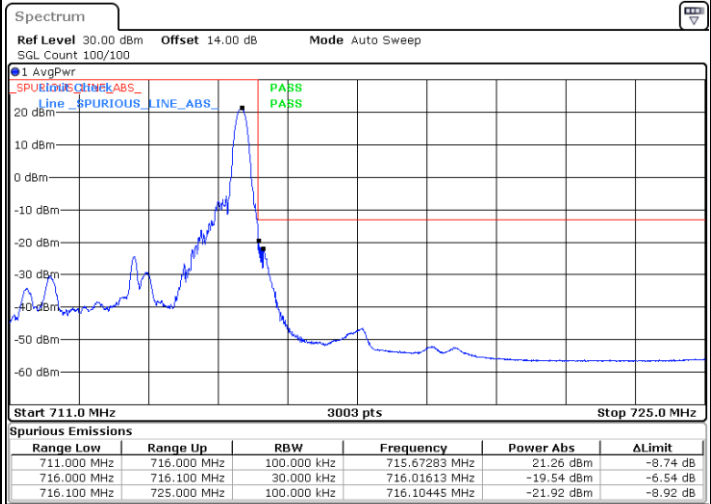
LTE Band 12 / 5MHz / 16QAM

Lowest Band Edge / 1 RB



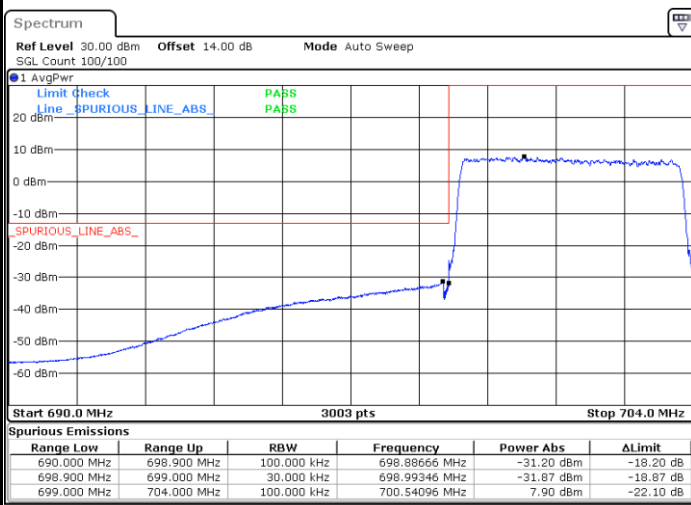
Date: 22.APR.2024 20:35:56

Highest Band Edge / 1 RB



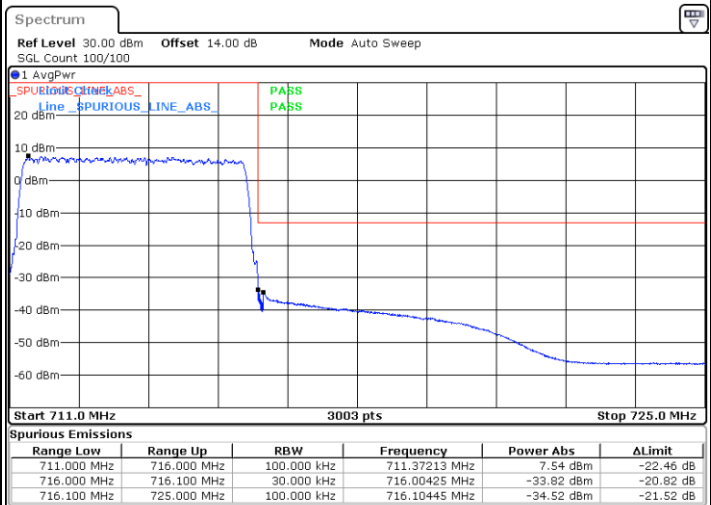
Date: 22.APR.2024 20:47:58

Lowest Band Edge / Full RB



Date: 22.APR.2024 20:39:58

Highest Band Edge / Full RB

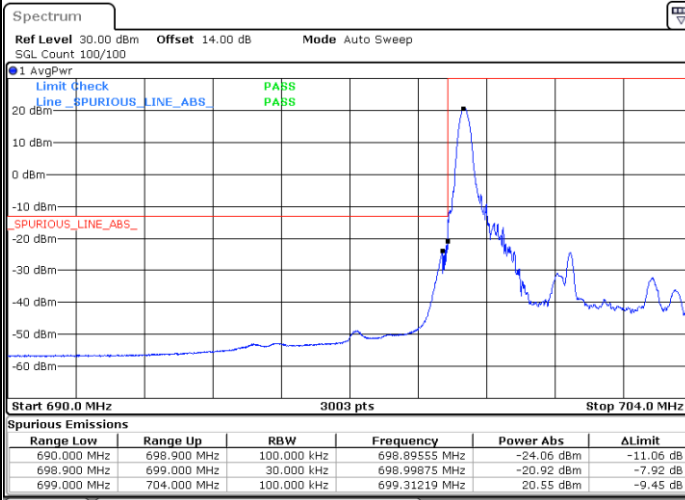


Date: 22.APR.2024 20:51:59



LTE Band 12 / 5MHz / 64QAM

Lowest Band Edge / 1 RB



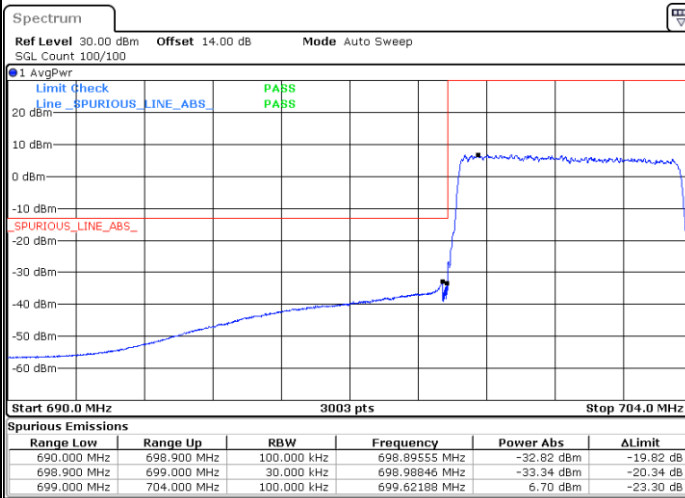
Date: 22.APR.2024 20:37:16

Highest Band Edge / 1 RB



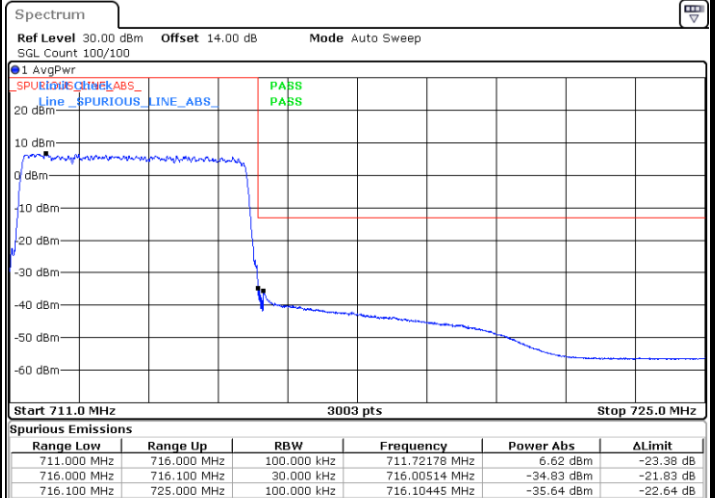
Date: 22.APR.2024 20:49:18

Lowest Band Edge / Full RB



Date: 22.APR.2024 20:41:18

Highest Band Edge / Full RB

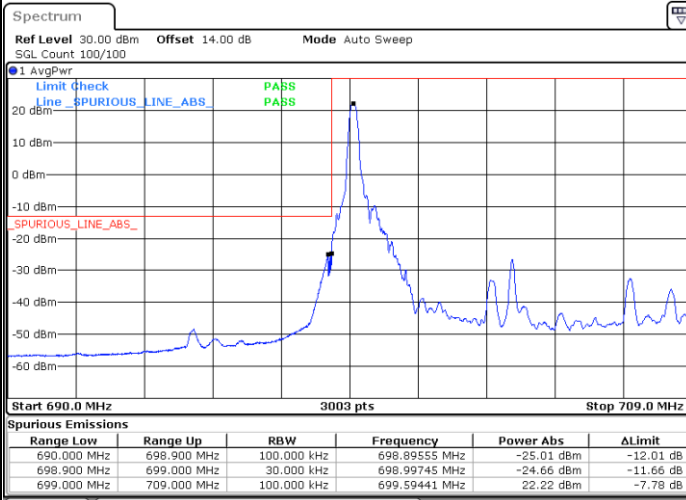


Date: 22.APR.2024 20:53:20



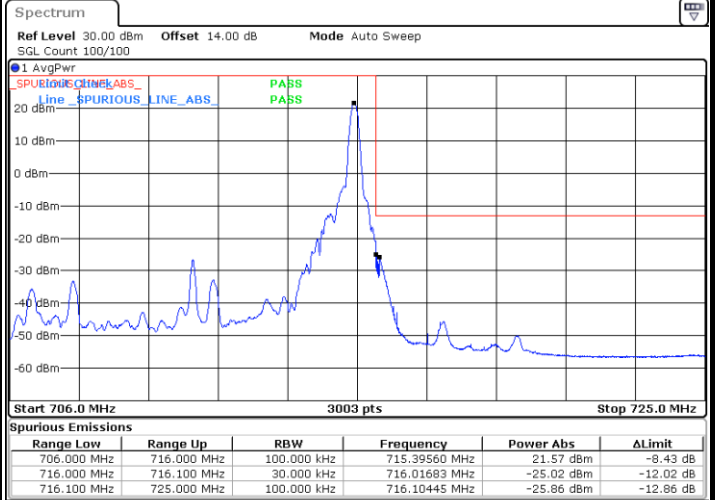
LTE Band 12 / 10MHz / QPSK

Lowest Band Edge / 1RB



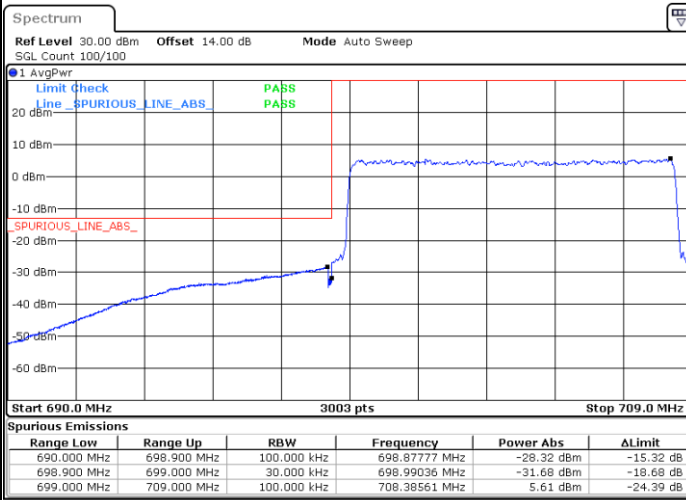
Date: 22.APR.2024 20:56:43

Highest Band Edge / 1RB



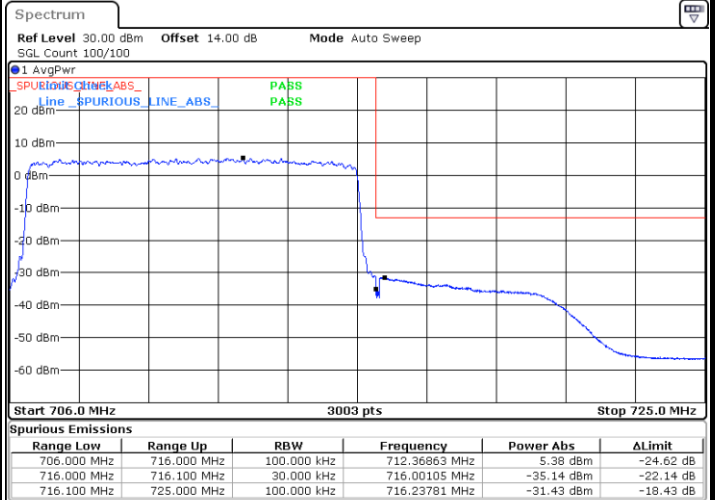
Date: 22.APR.2024 21:08:45

Lowest Band Edge / Full RB



Date: 22.APR.2024 21:00:45

Highest Band Edge / Full RB

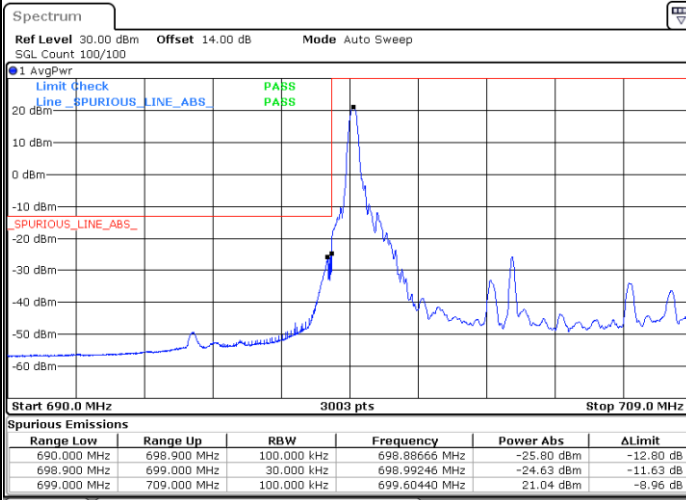


Date: 22.APR.2024 21:12:47



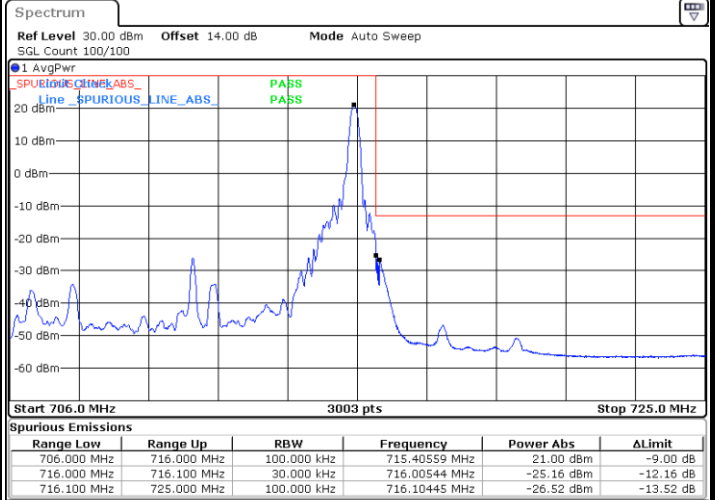
LTE Band 12 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



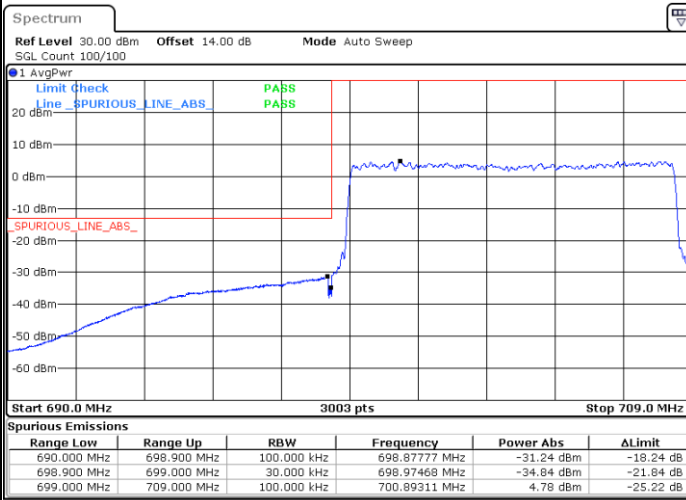
Date: 22.APR.2024 20:58:04

Highest Band Edge / 1 RB



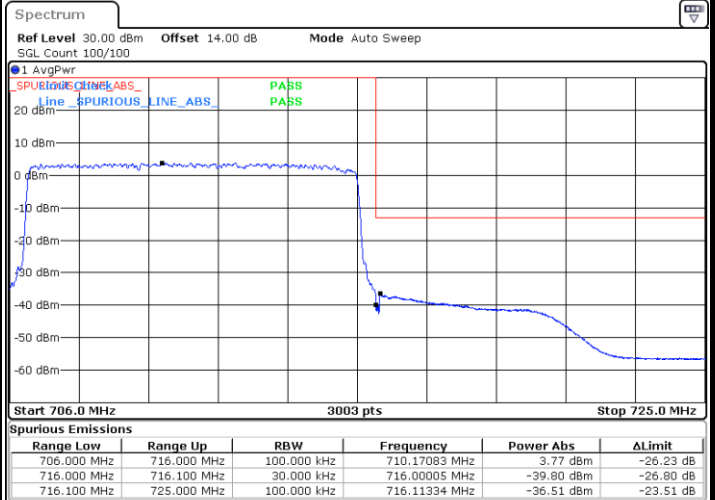
Date: 22.APR.2024 21:10:06

Lowest Band Edge / Full RB



Date: 22.APR.2024 21:02:06

Highest Band Edge / Full RB

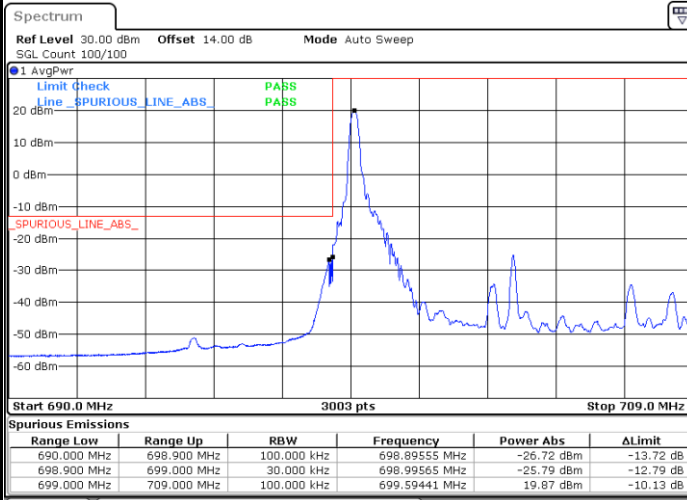


Date: 22.APR.2024 21:14:07



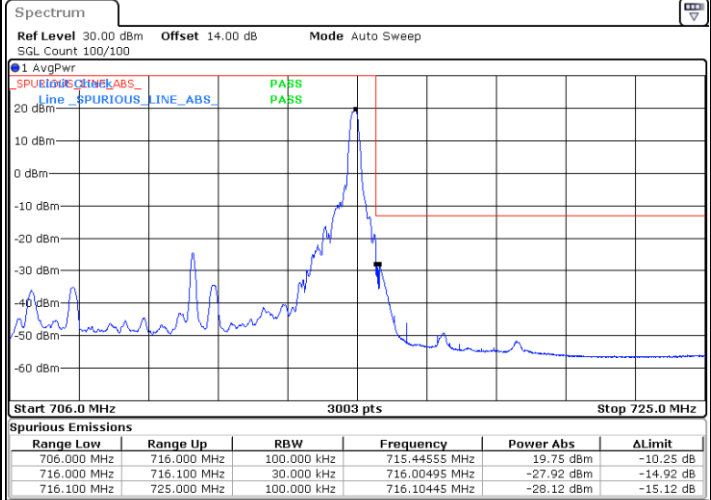
LTE Band 12 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



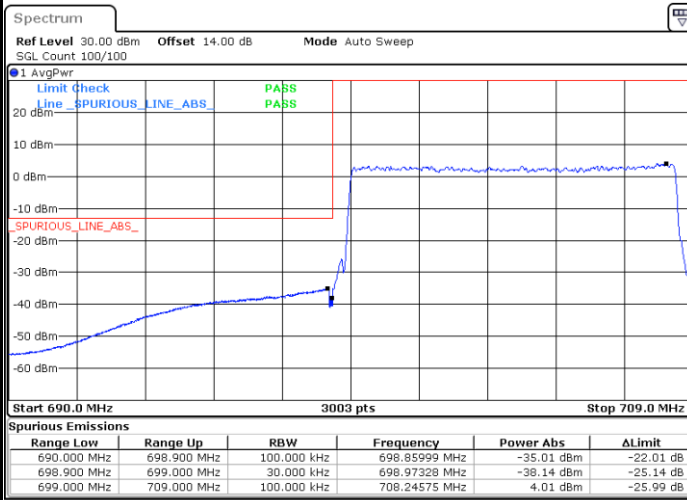
Date: 22.APR.2024 20:59:24

Highest Band Edge / 1 RB



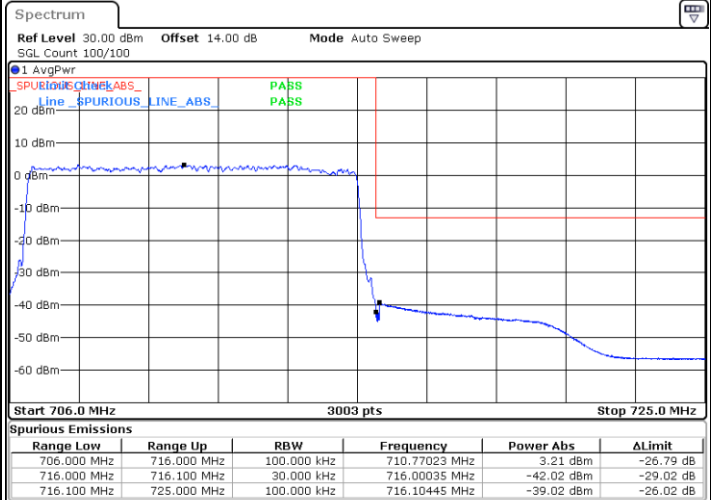
Date: 22.APR.2024 21:11:26

Lowest Band Edge / Full RB



Date: 22.APR.2024 21:03:26

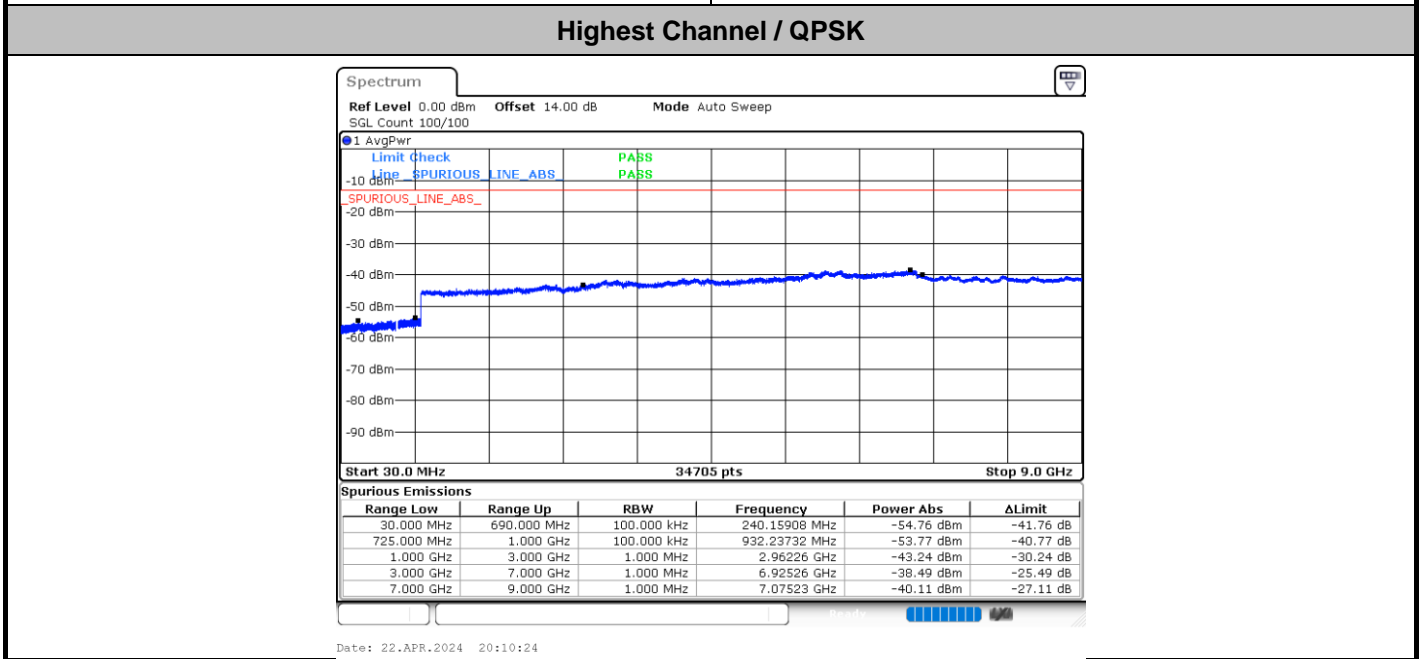
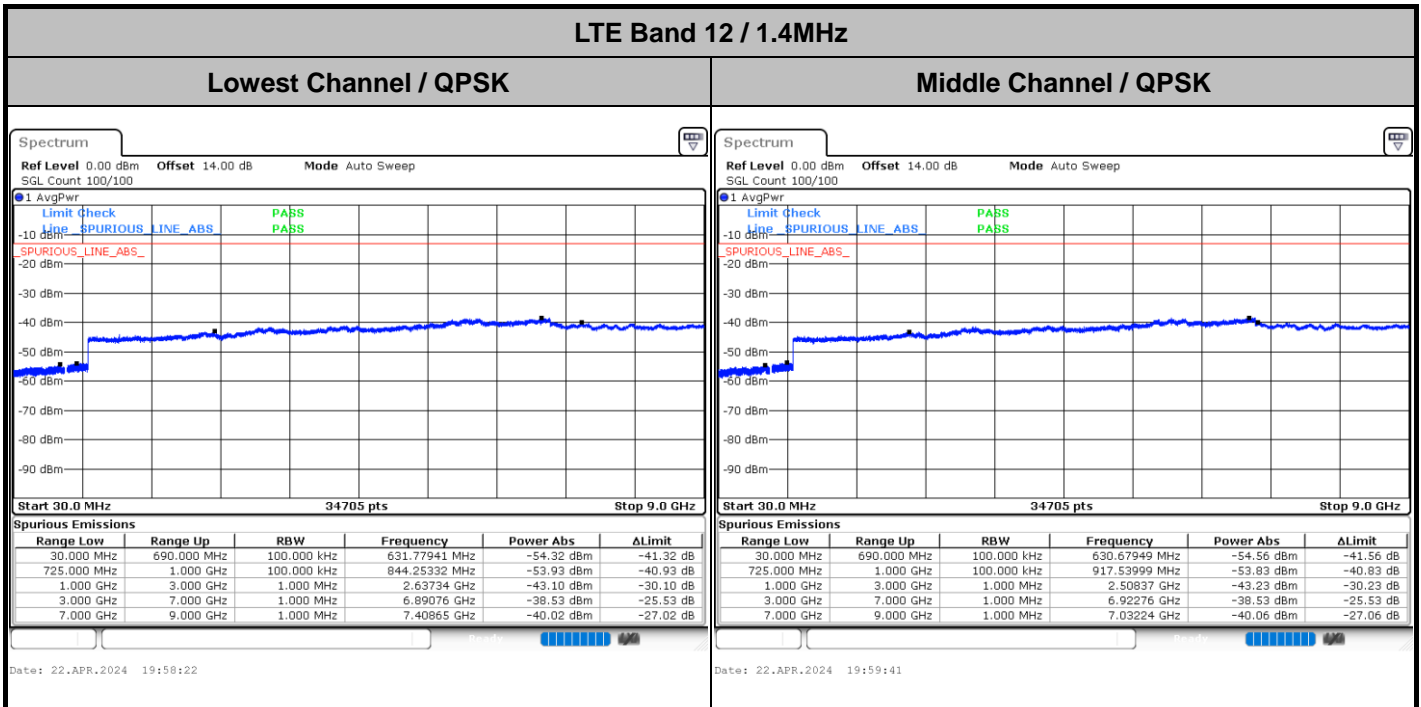
Highest Band Edge / Full RB



Date: 22.APR.2024 21:15:28



Conducted Spurious Emission

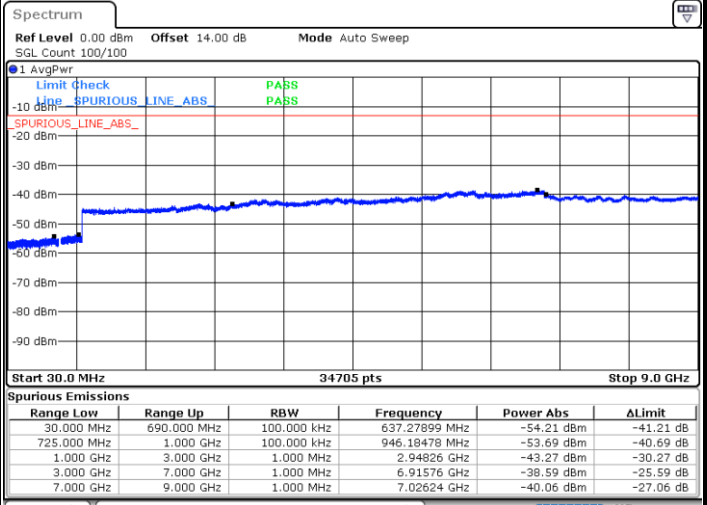
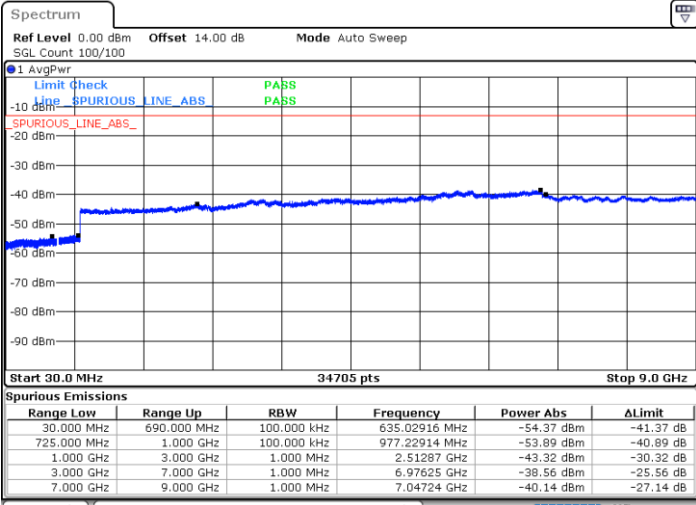




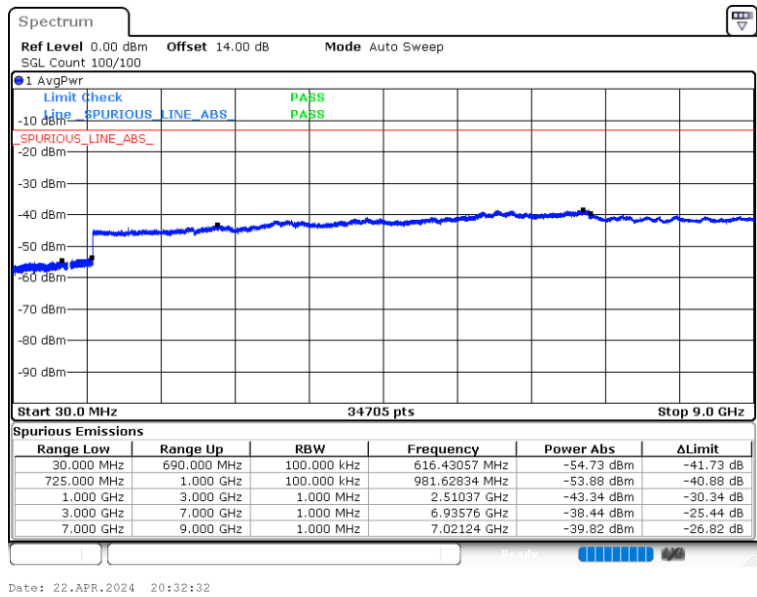
LTE Band 12 / 3MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK

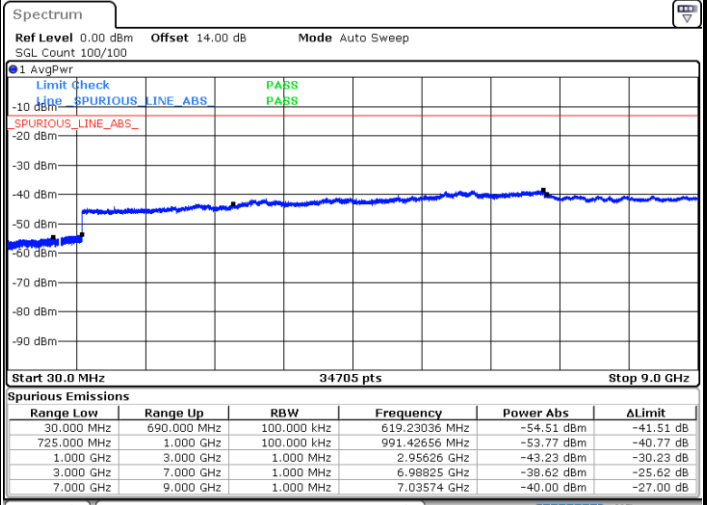
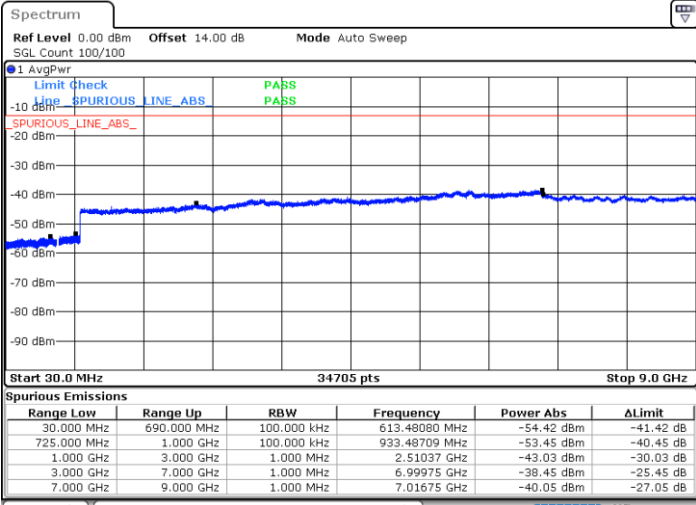




LTE Band 12 / 5MHz

Lowest Channel / QPSK

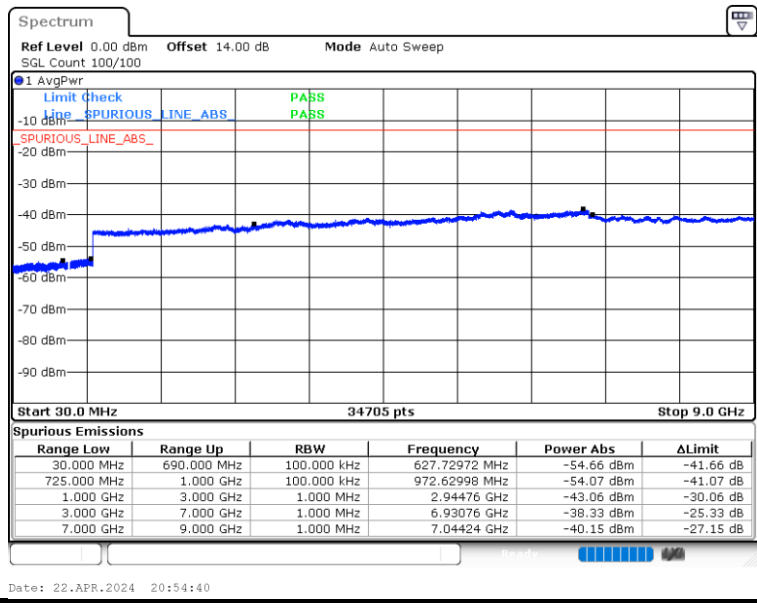
Middle Channel / QPSK



Date: 22.APR.2024 20:42:39

Date: 22.APR.2024 20:43:58

Highest Channel / QPSK



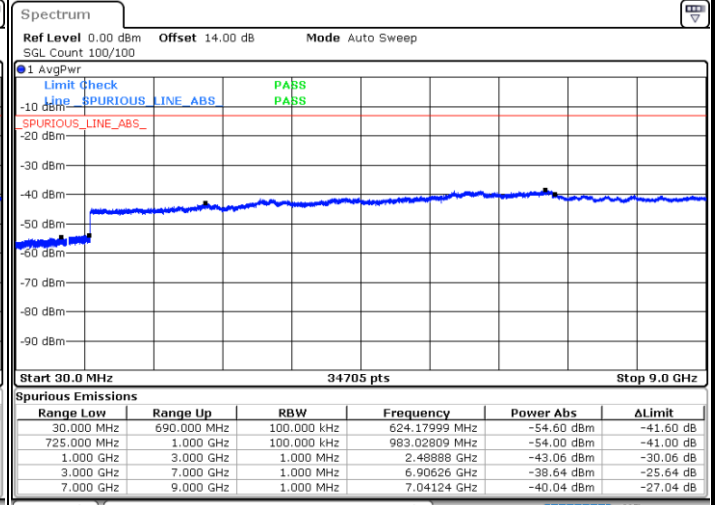
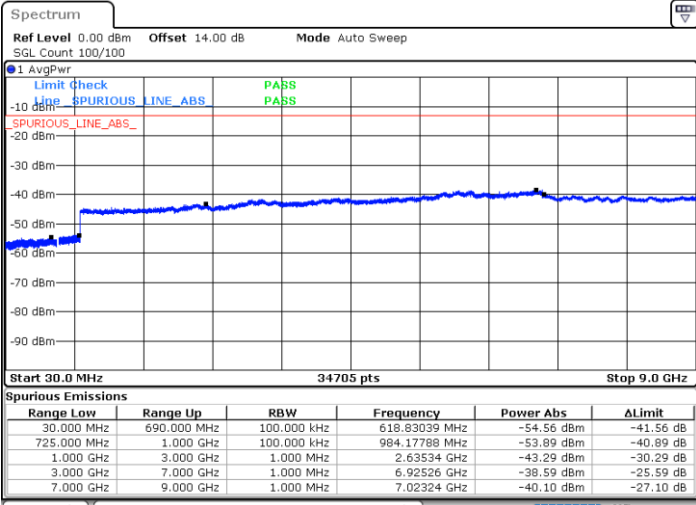
Date: 22.APR.2024 20:54:40



LTE Band 12 / 10MHz

Lowest Channel / QPSK

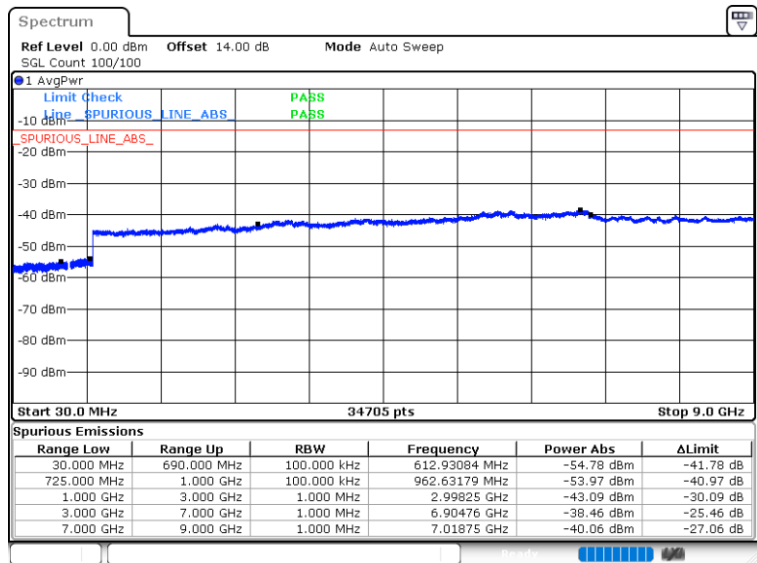
Middle Channel / QPSK



Date: 22.APR.2024 21:04:46

Date: 22.APR.2024 21:06:06

Highest Channel / QPSK



Date: 22.APR.2024 21:16:48



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	0.0013	PASS
40	Normal Voltage	0.0007	
30	Normal Voltage	0.0014	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0004	
0	Normal Voltage	0.0004	
-10	Normal Voltage	0.0005	
-20	Normal Voltage	0.0010	
-30	Normal Voltage	0.0005	
20	Maximum Voltage	0.0007	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0002	

Note:

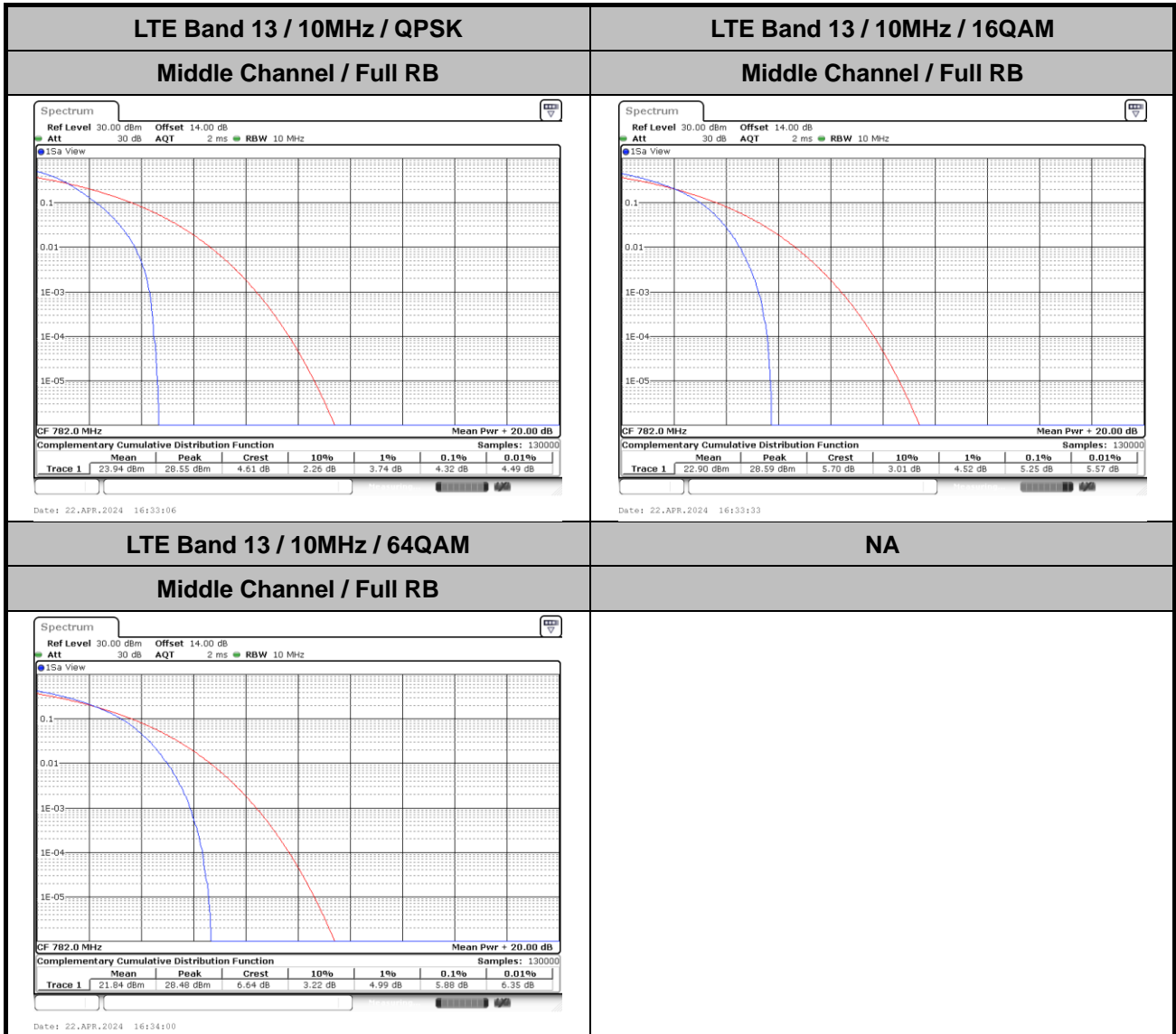
1. Normal Voltage = 3.89 V. ; Battery End Point (BEP) = 3.5 V. ; Maximum Voltage = 4.3 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 13

Peak-to-Average Ratio

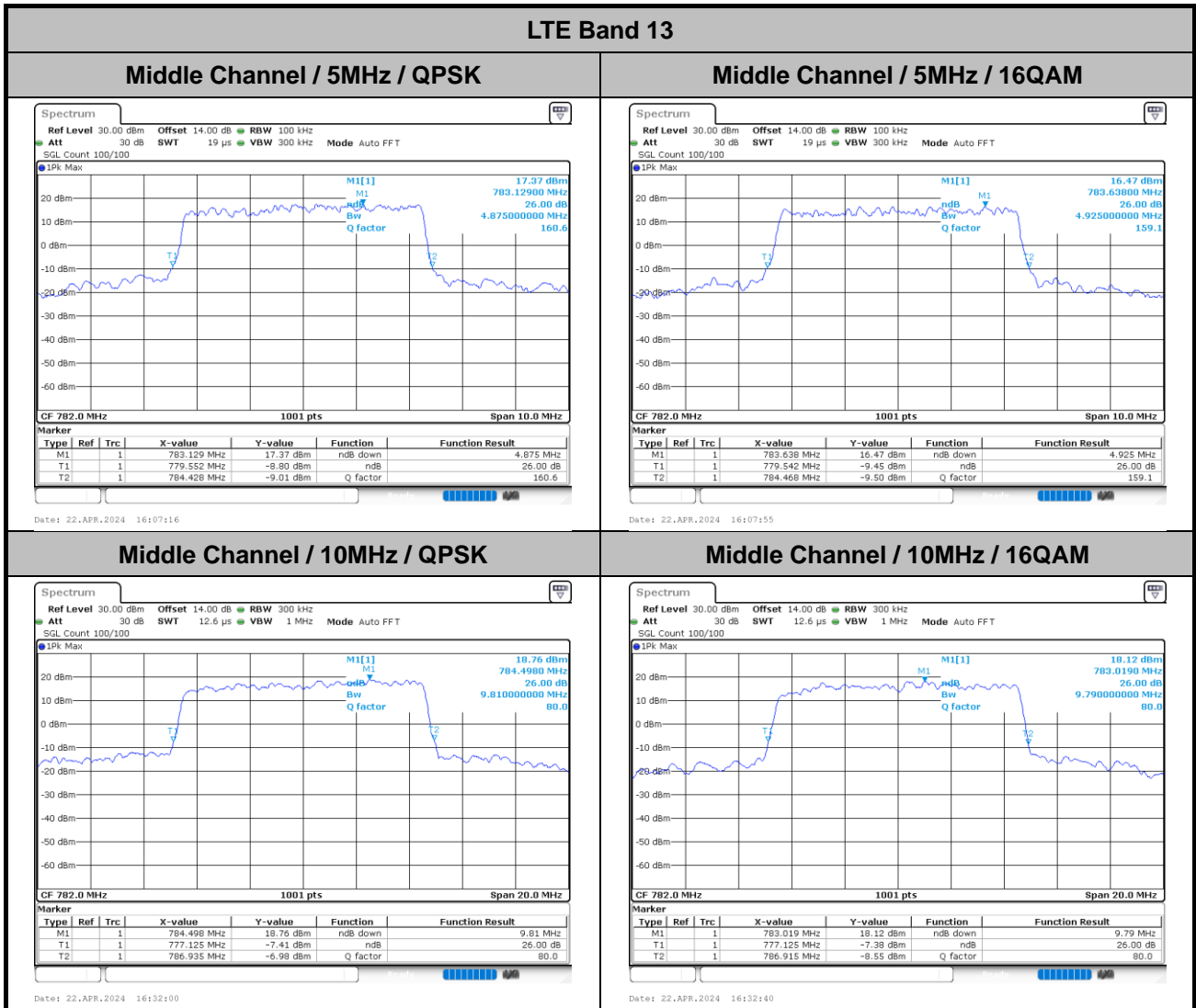
Mode	LTE Band 13 / 10MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	4.32	5.25	5.88	PASS





26dB Bandwidth

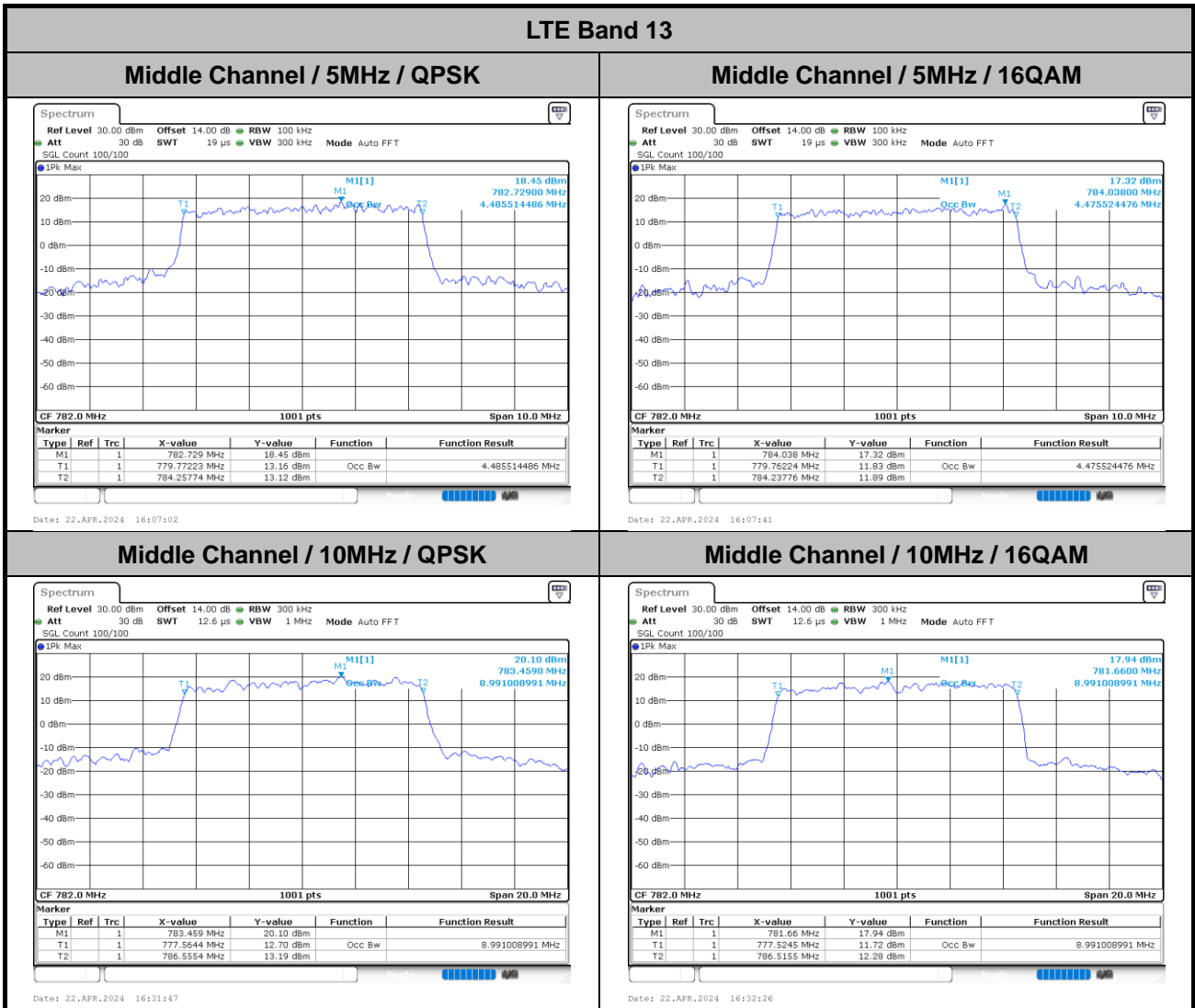
Mode	LTE Band 13 : 26dB BW(MHz)											
BW	-			5MHz			10MHz			-		
Mod.	-	-	-	-	QPSK	16QAM	QPSK	16QAM	-	-	-	-
Middle CH	-	-	-	-	4.88	4.93	9.81	9.79	-	-	-	-





Occupied Bandwidth

Mode	LTE Band 13 : 99%OBW(MHz)											
BW	-			5MHz			10MHz			-		
Mod.	-	-	-	-	QPSK	16QAM	QPSK	16QAM	-	-	-	-
Middle CH	-	-	-	-	4.49	4.48	8.99	8.99	-	-	-	-

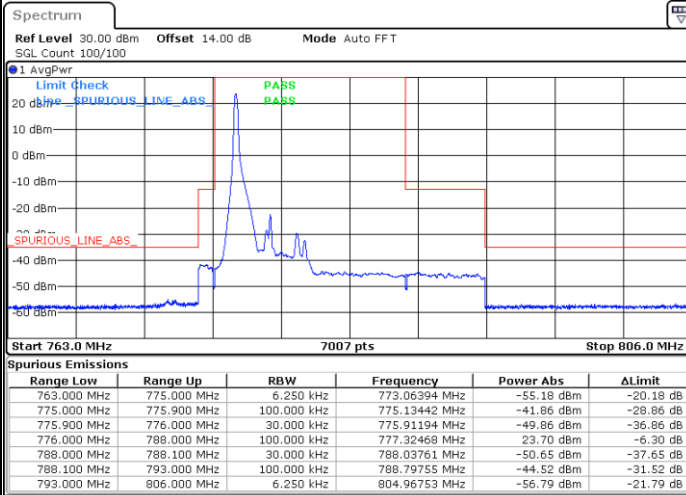




Conducted Band Edge

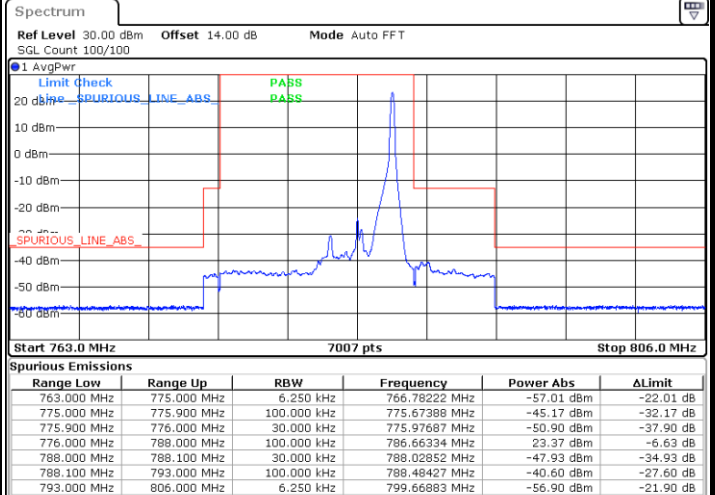
LTE Band 13 / 5MHz / QPSK

Lowest Band Edge / 1 RB



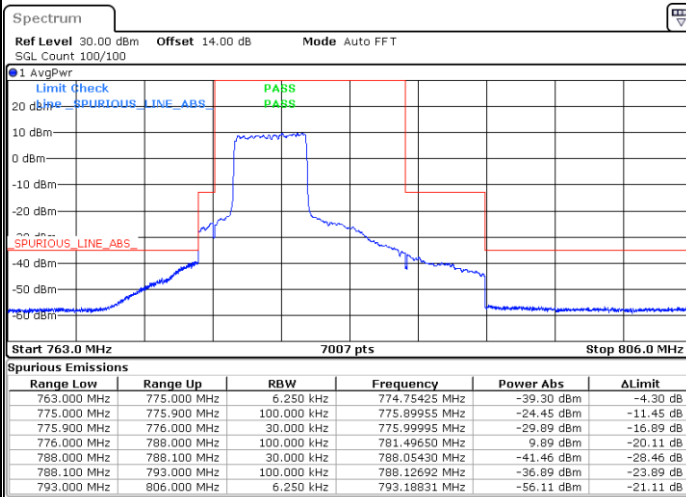
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Highest Band Edge / 1 RB



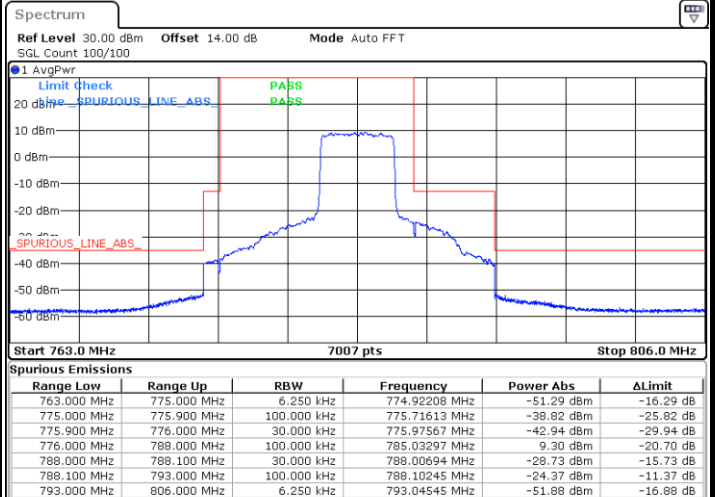
Date: 22.APR.2024 16:09:15

Lowest Band Edge / Full RB



Date: 22.APR.2024 16:01:15

Highest Band Edge / Full RB

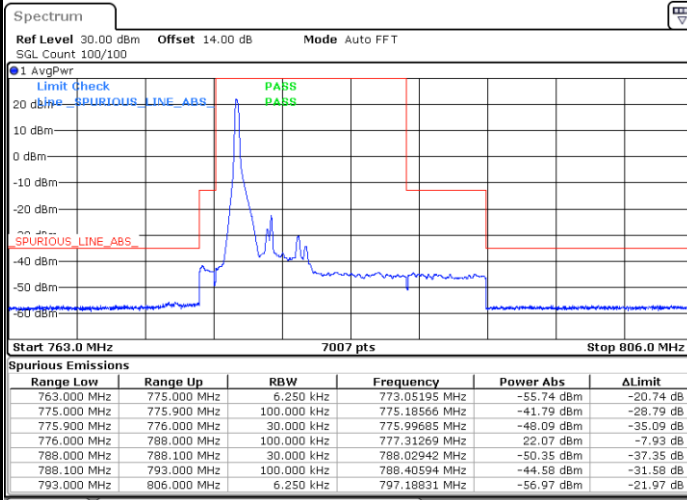


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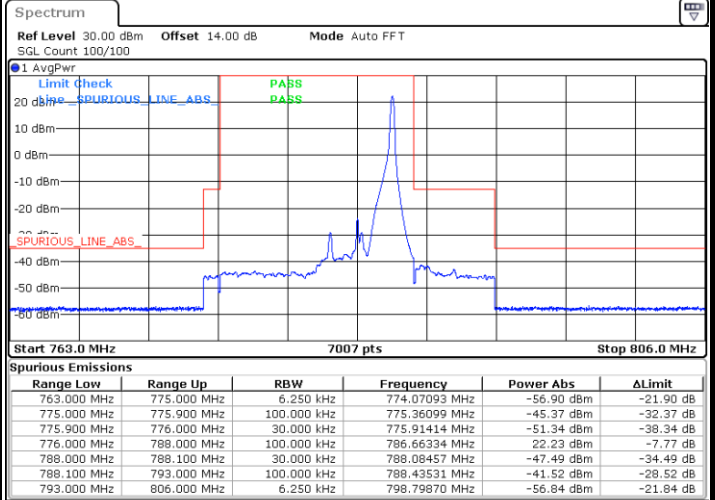
LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1 RB



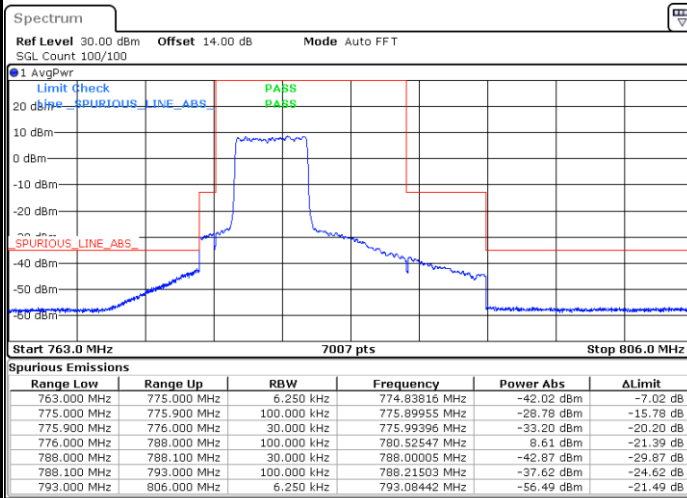
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Highest Band Edge / 1 RB



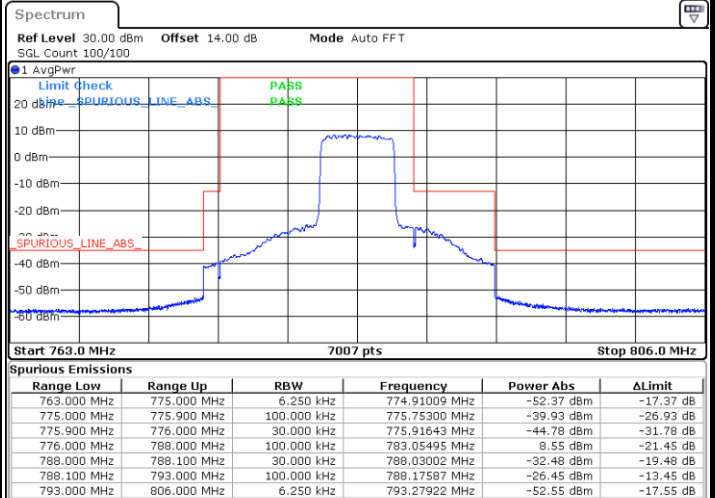
Date: 22.APR.2024 16:10:35

Lowest Band Edge / Full RB



Date: 22.APR.2024 16:02:36

Highest Band Edge / Full RB



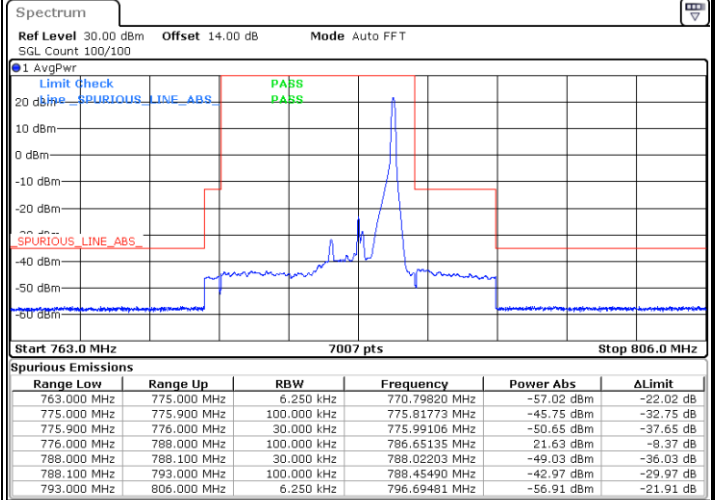
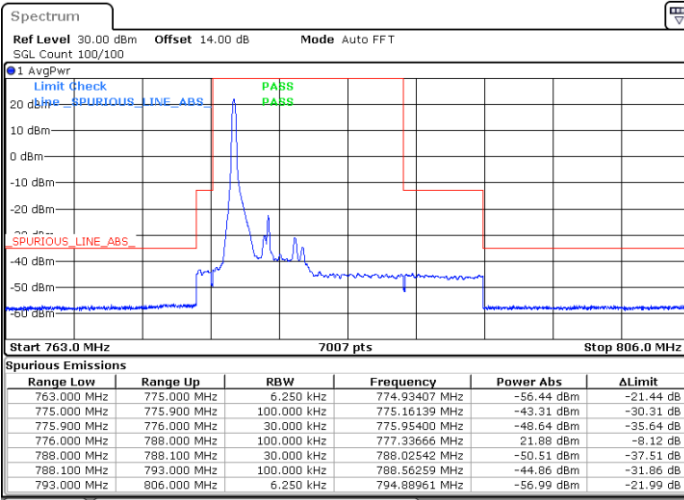
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LTE Band 13 / 5MHz / 64QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

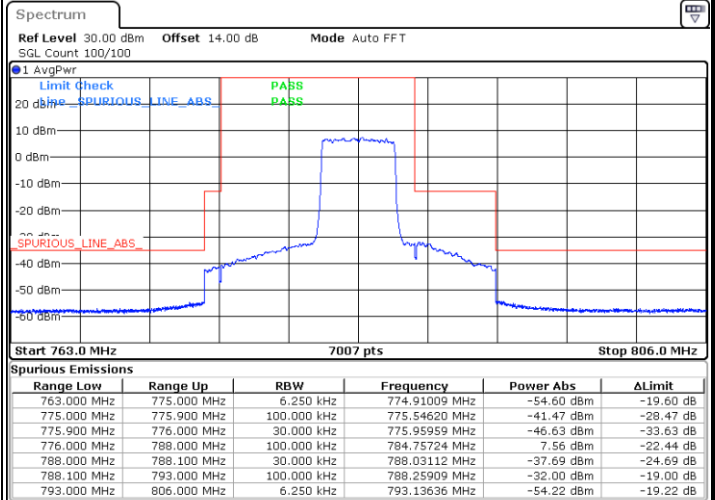
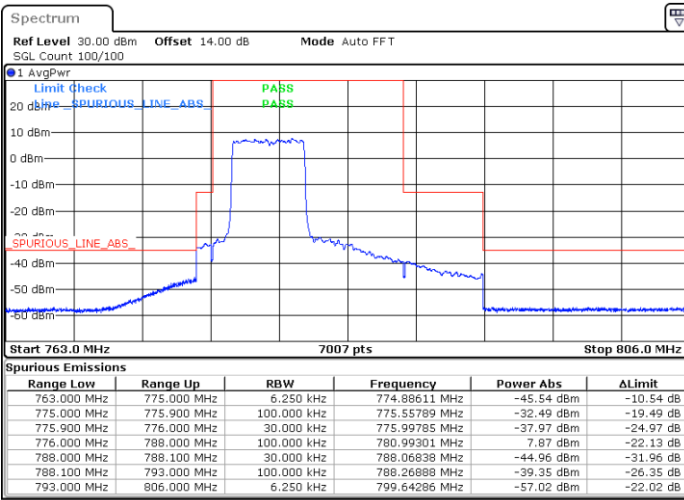


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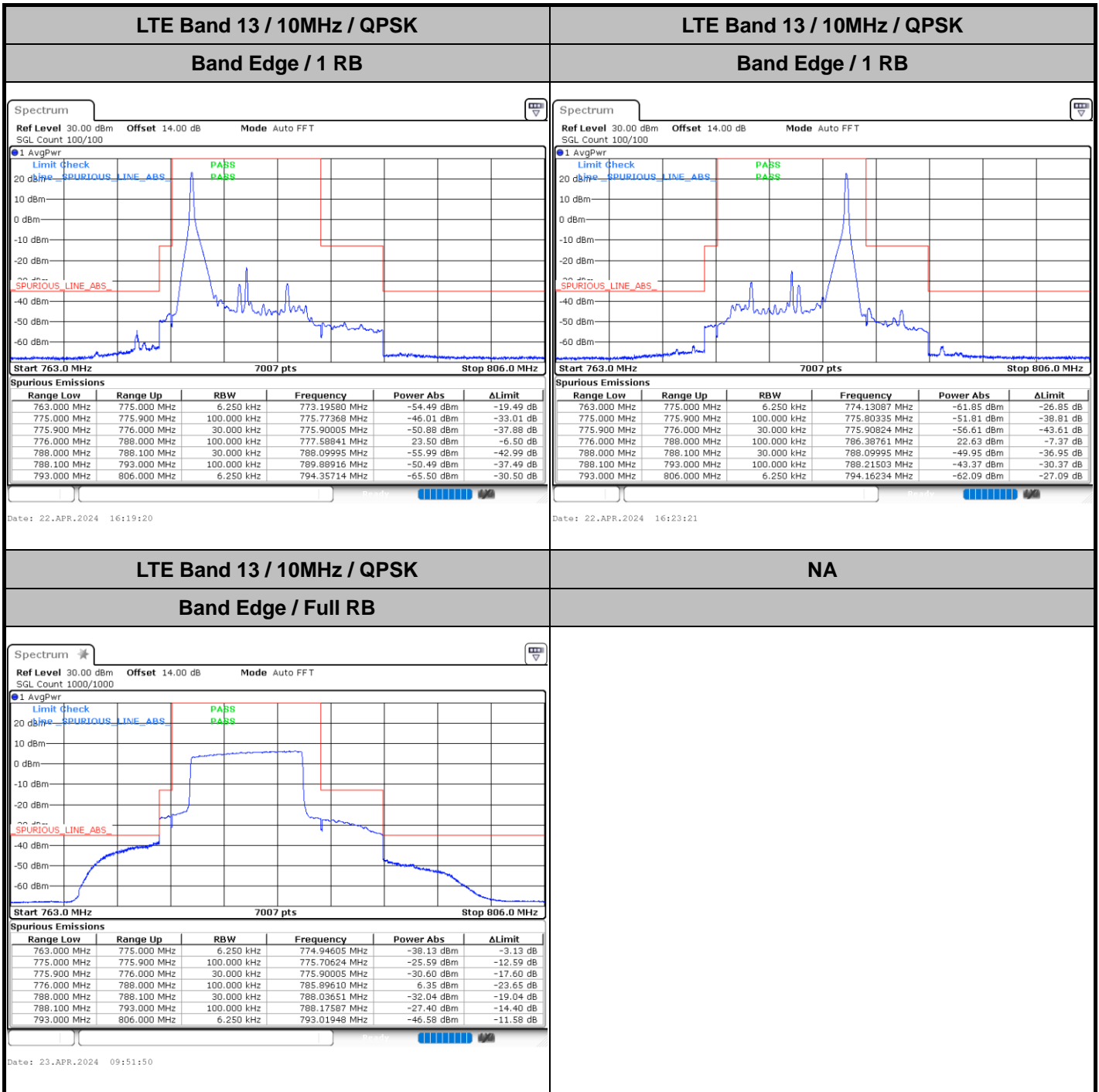
Lowest Band Edge / Full RB

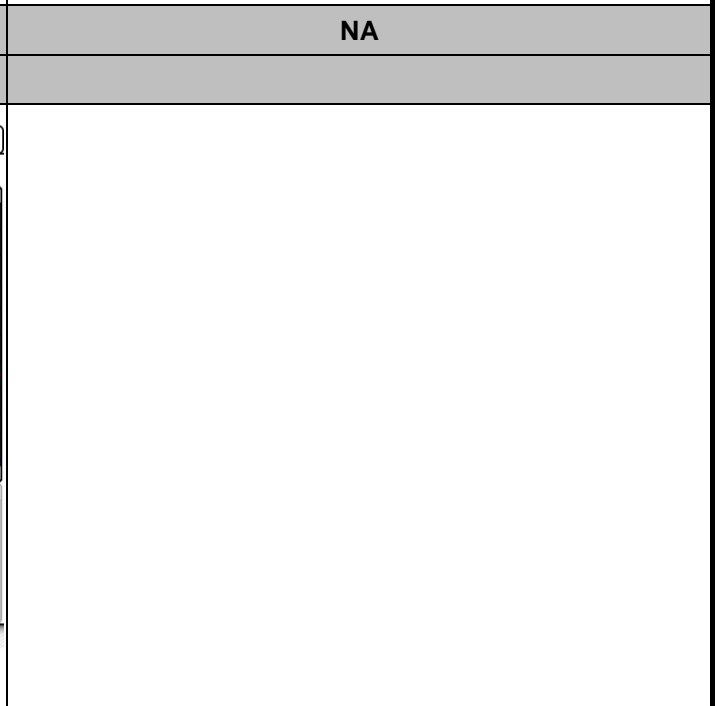
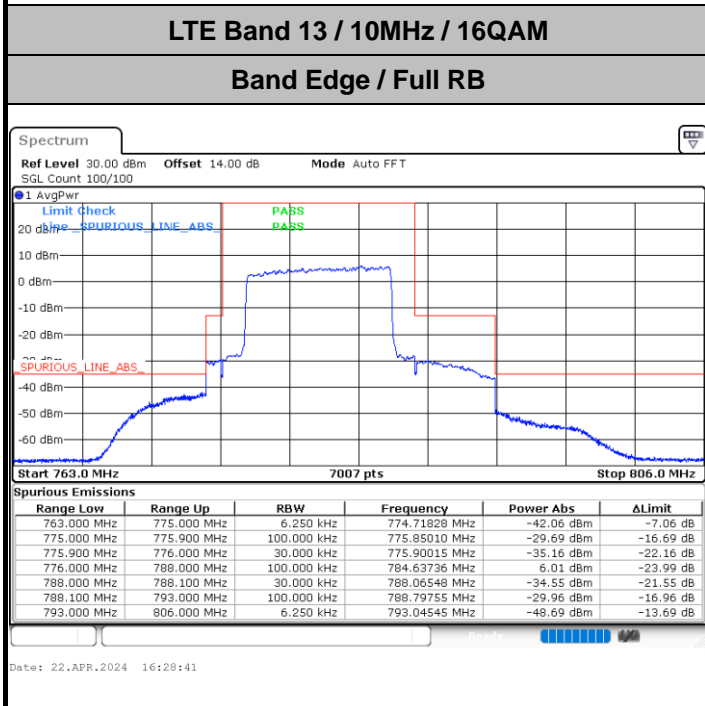
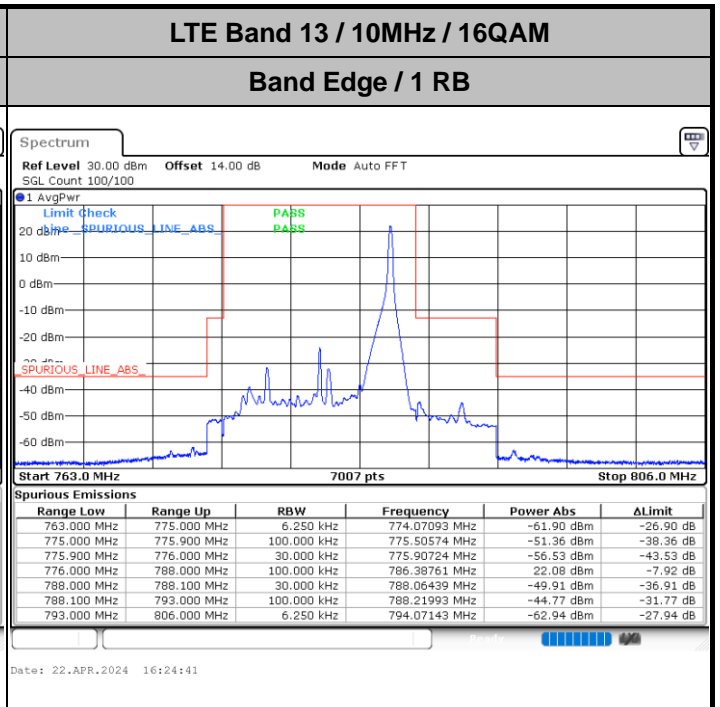
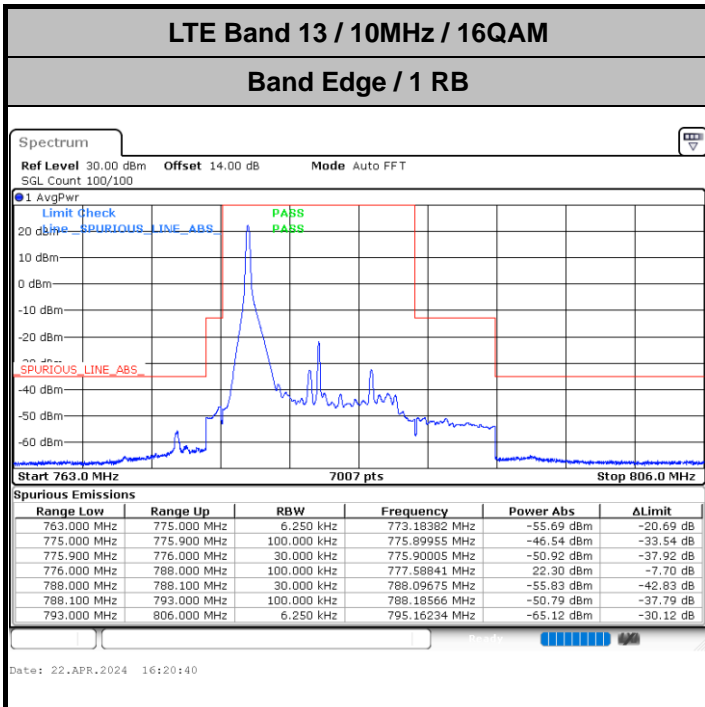
Highest Band Edge / Full RB

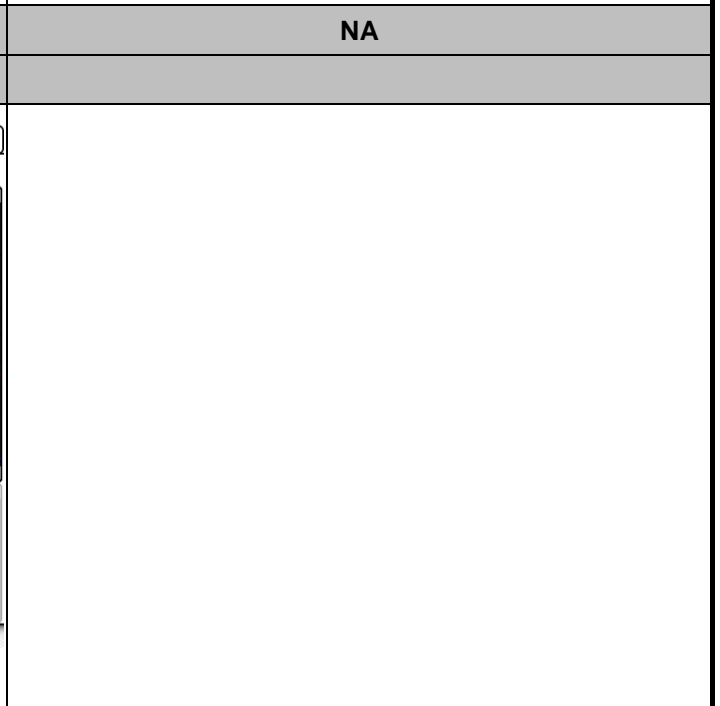
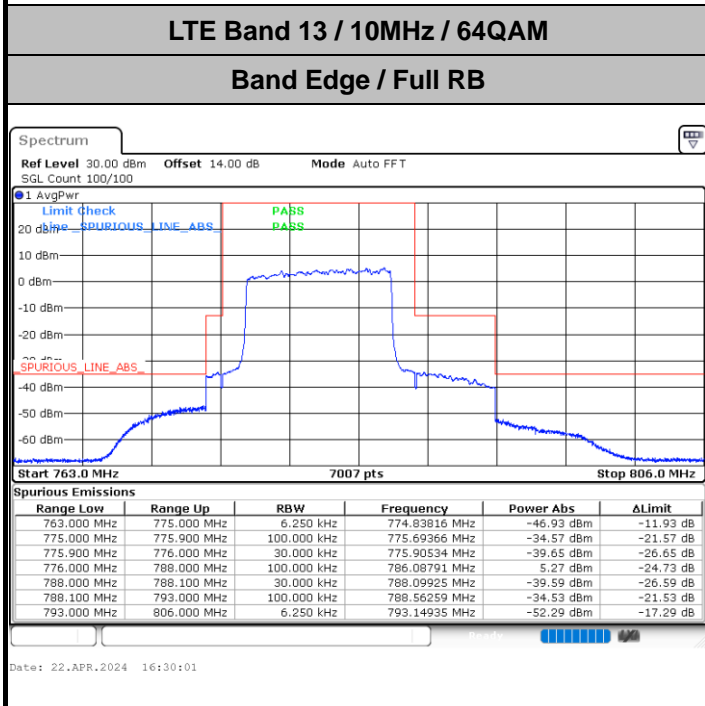
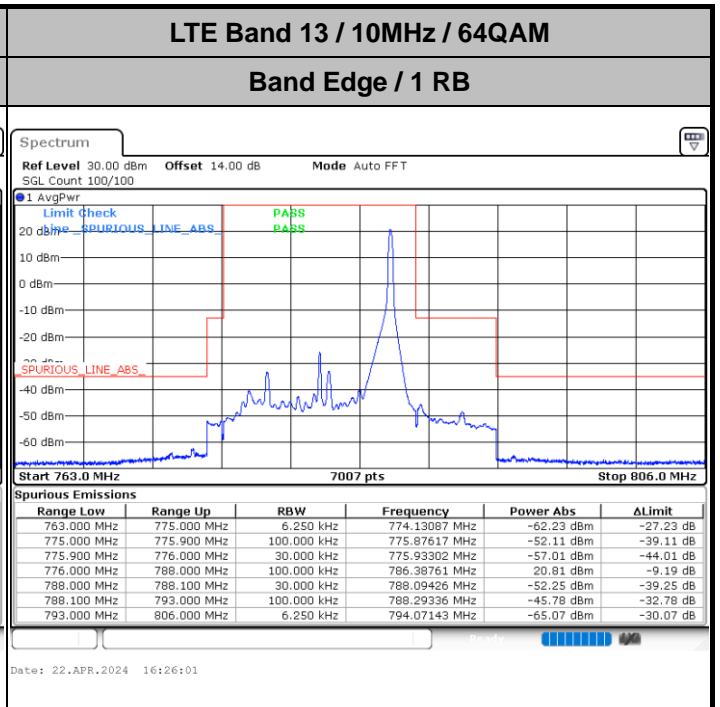
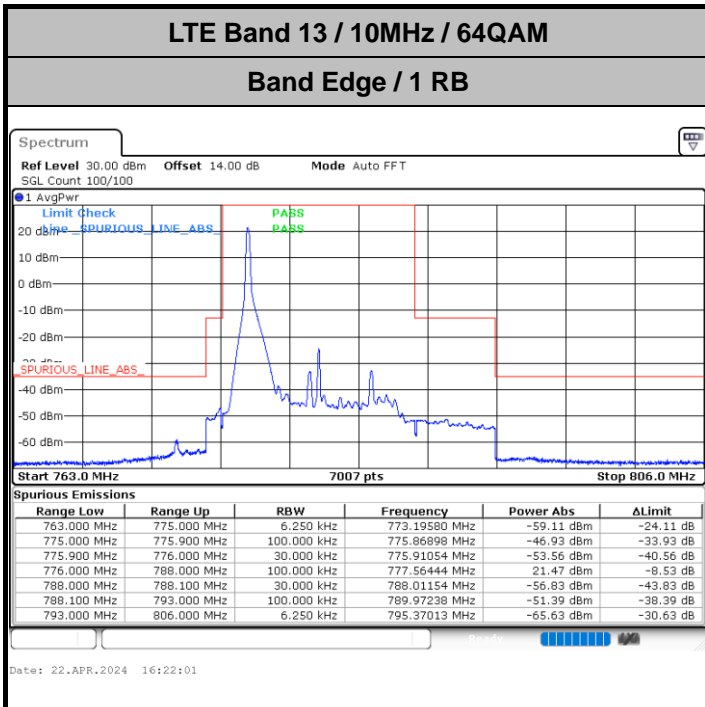


Date: 22.APR.2024 16:03:57

Date: 22.APR.2024 16:15:57









Conducted Spurious Emission

