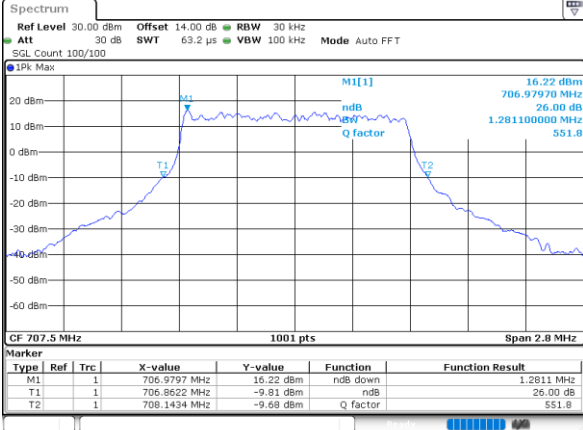




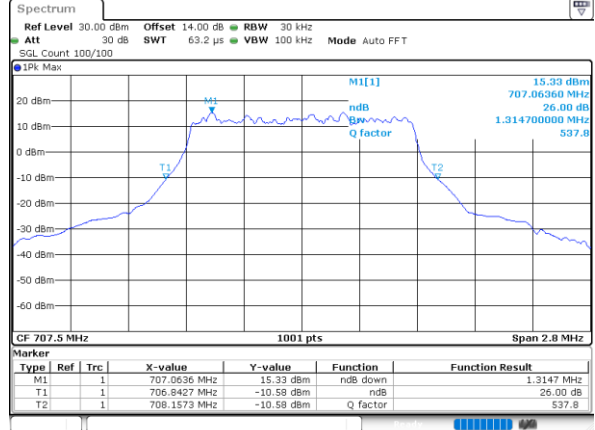
LTE Band 12

Middle Channel / 1.4MHz / QPSK



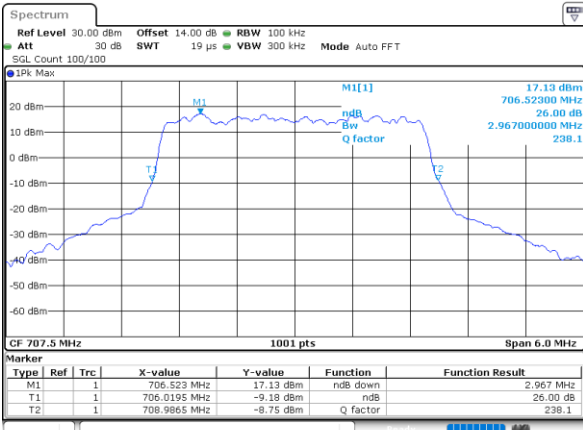
Date: 11.APR.2024 00:42:16

Middle Channel / 1.4MHz / 16QAM



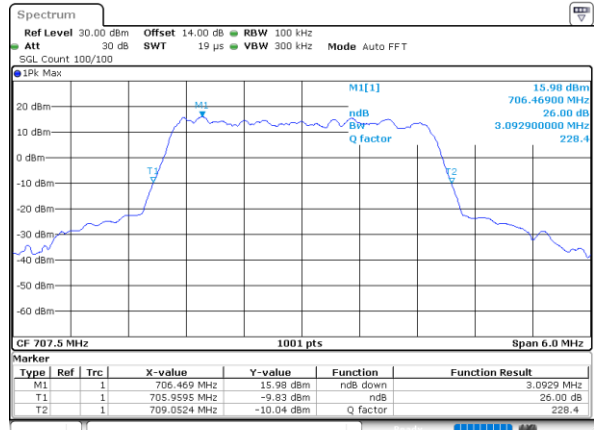
Date: 11.APR.2024 00:42:58

Middle Channel / 3MHz / QPSK



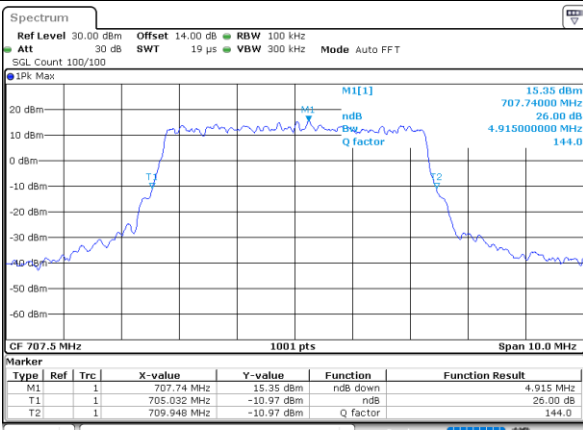
Date: 11.APR.2024 01:00:15

Middle Channel / 3MHz / 16QAM



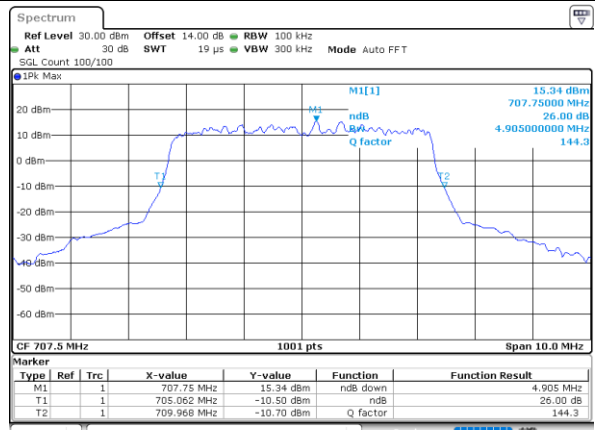
Date: 11.APR.2024 01:00:57

Middle Channel / 5MHz / QPSK



Date: 11.APR.2024 01:18:12

Middle Channel / 5MHz / 16QAM

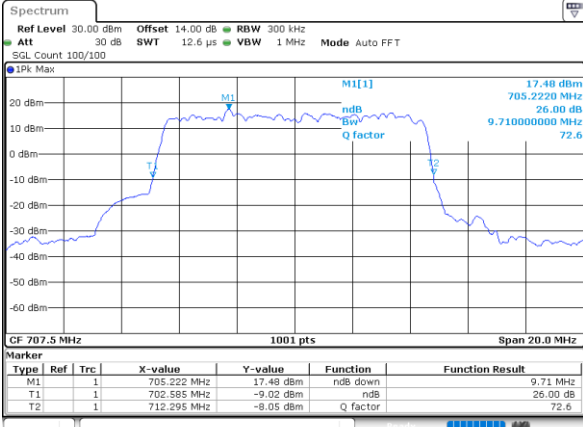


Date: 11.APR.2024 01:18:55



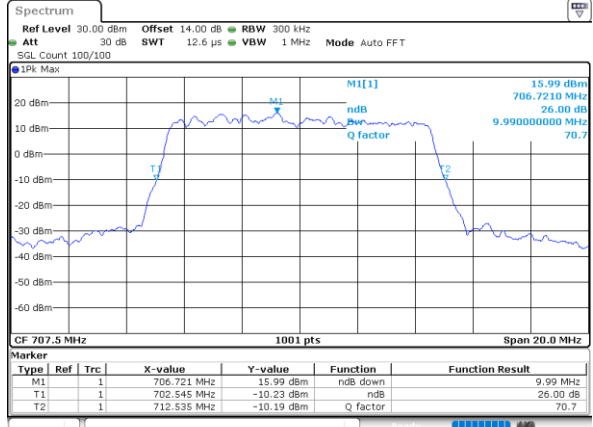
LTE Band 12

Middle Channel / 10MHz / QPSK



Date: 11.APR.2024 01:36:11

Middle Channel / 10MHz / 16QAM



Date: 11.APR.2024 01:36:54



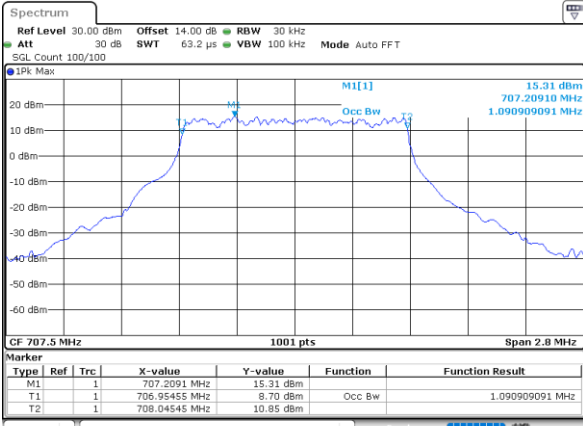
A3.3 Occupied Bandwidth

Mode	LTE Band 12 : 99%OBW(MHz)							
	1.4MHz		3MHz		5MHz		10MHz	
BW								
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	1.09	1.09	2.75	2.70	4.48	4.49	9.01	9.03



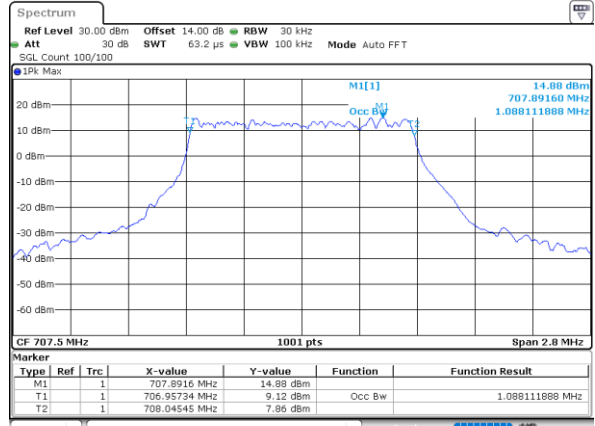
LTE Band 12

Middle Channel / 1.4MHz / QPSK



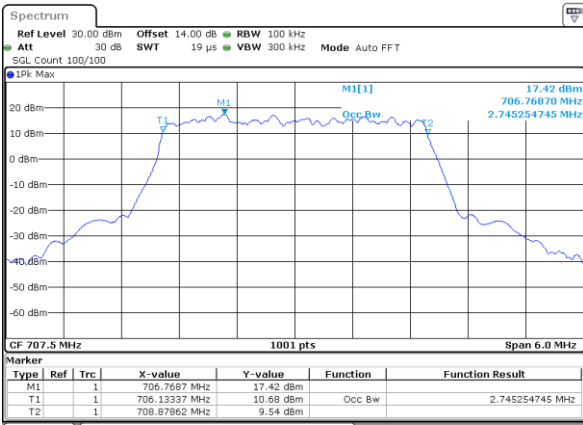
Date: 11.APR.2024 00:42:02

Middle Channel / 1.4MHz / 16QAM



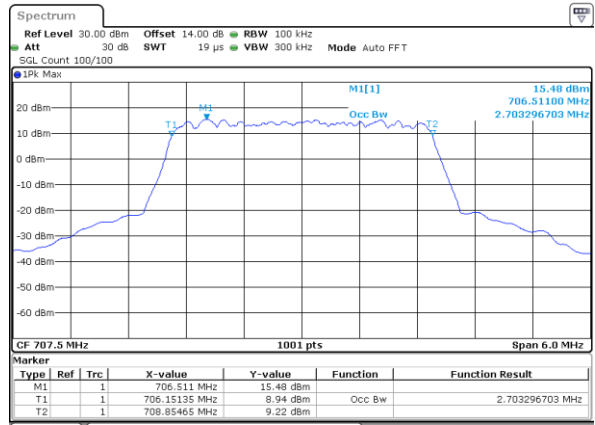
Date: 11.APR.2024 00:42:44

Middle Channel / 3MHz / QPSK



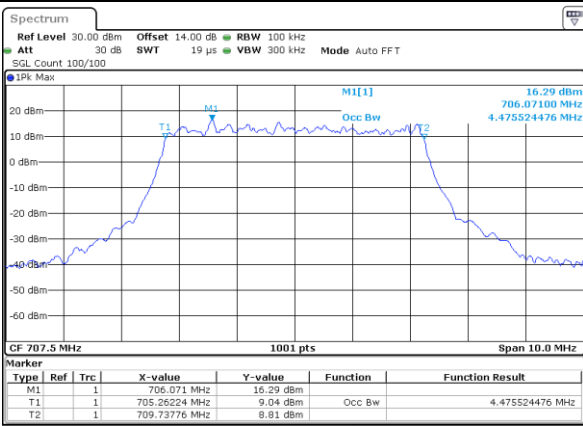
Date: 11.APR.2024 01:00:01

Middle Channel / 3MHz / 16QAM



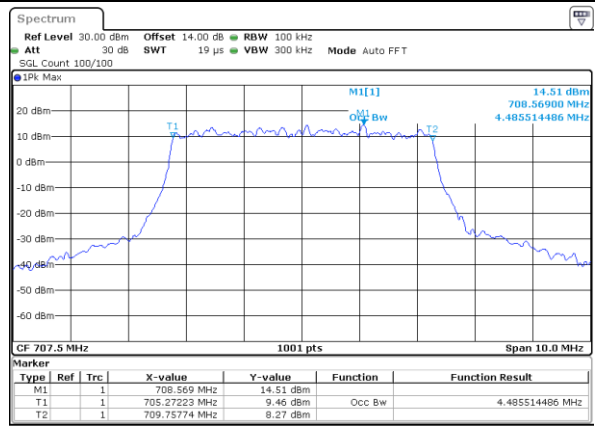
Date: 11.APR.2024 01:00:43

Middle Channel / 5MHz / QPSK



Date: 11.APR.2024 01:17:58

Middle Channel / 5MHz / 16QAM

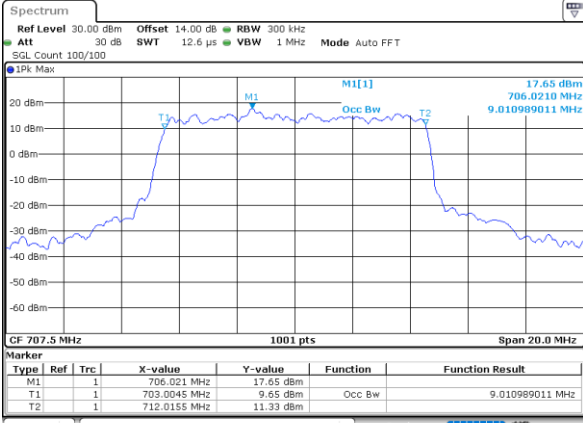


Date: 11.APR.2024 01:18:41



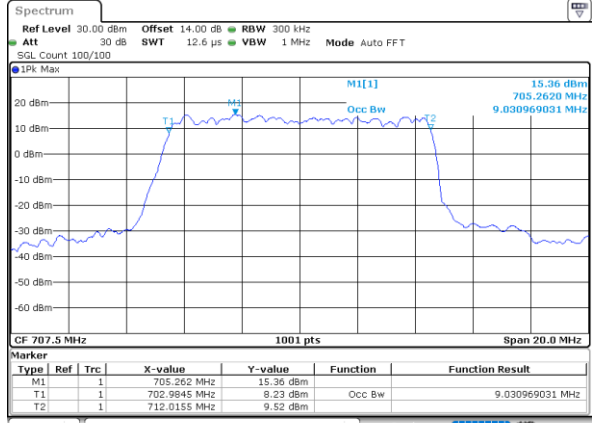
LTE Band 12

Middle Channel / 10MHz / QPSK



Date: 11.APR.2024 01:35:57

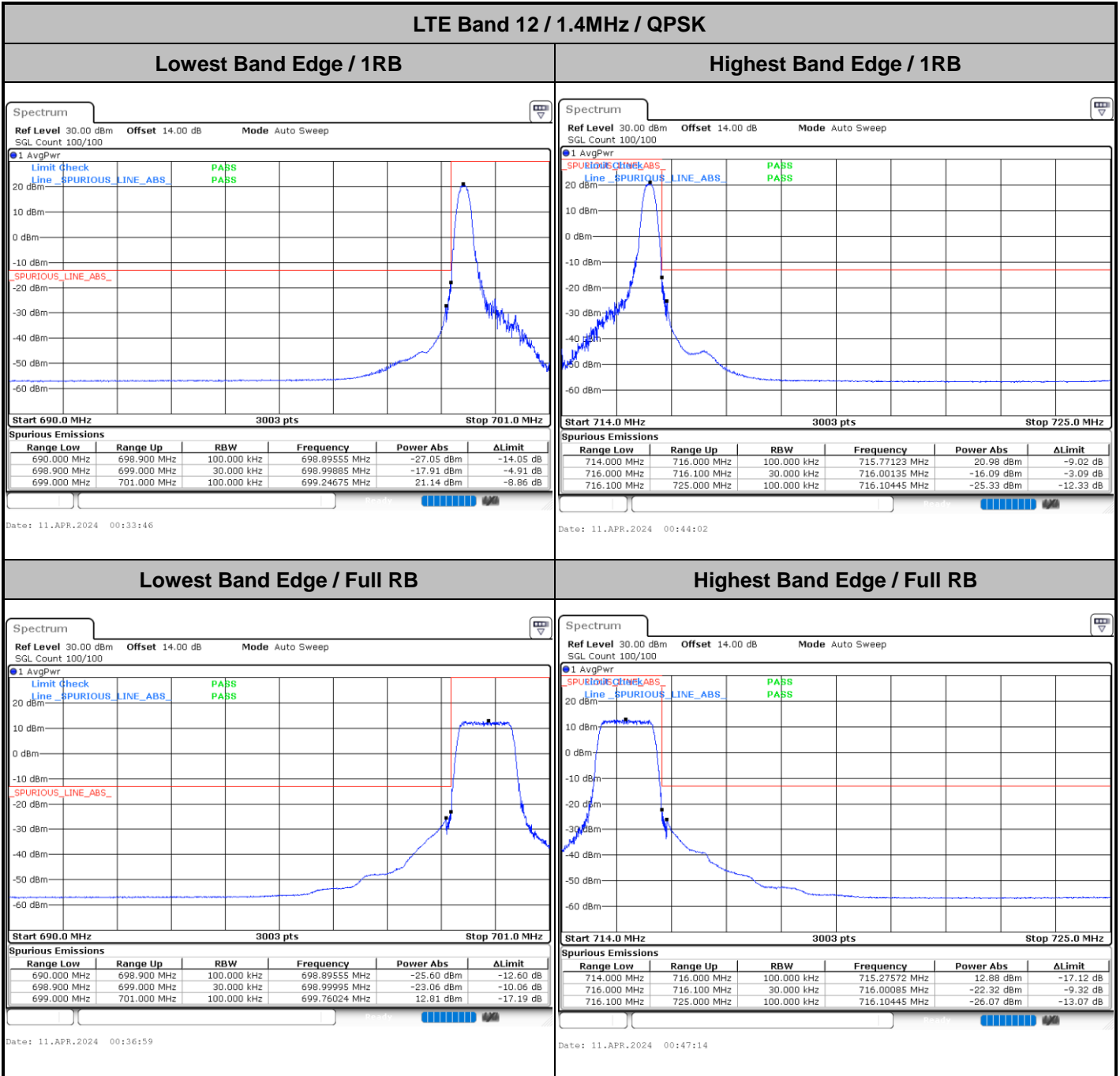
Middle Channel / 10MHz / 16QAM



Date: 11.APR.2024 01:36:40



A3.4 Conducted Band Edge





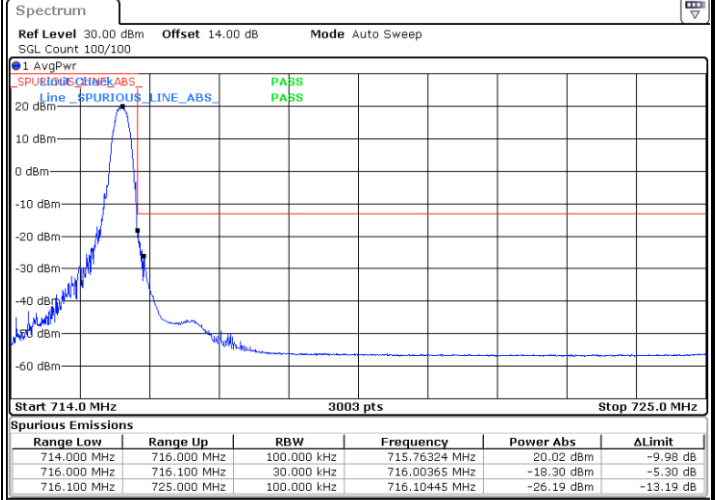
LTE Band 12 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



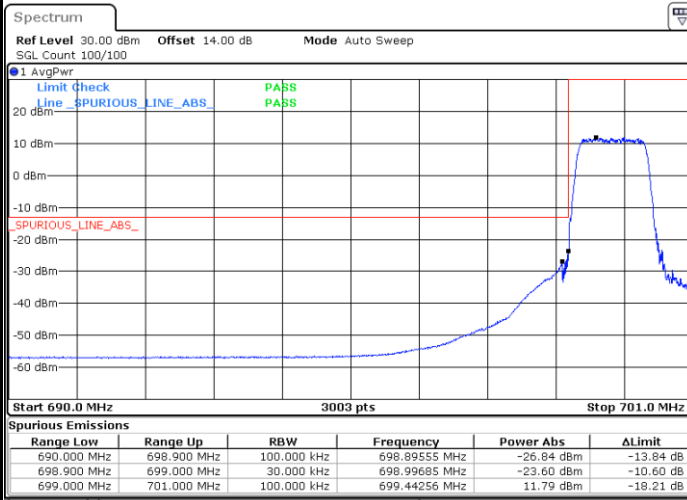
Date: 11.APR.2024 00:34:50

Highest Band Edge / 1 RB



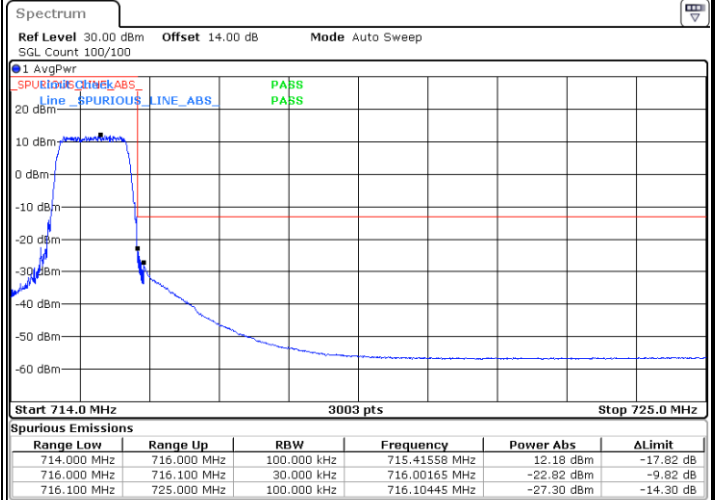
Date: 11.APR.2024 00:45:06

Lowest Band Edge / Full RB



Date: 11.APR.2024 00:38:02

Highest Band Edge / Full RB

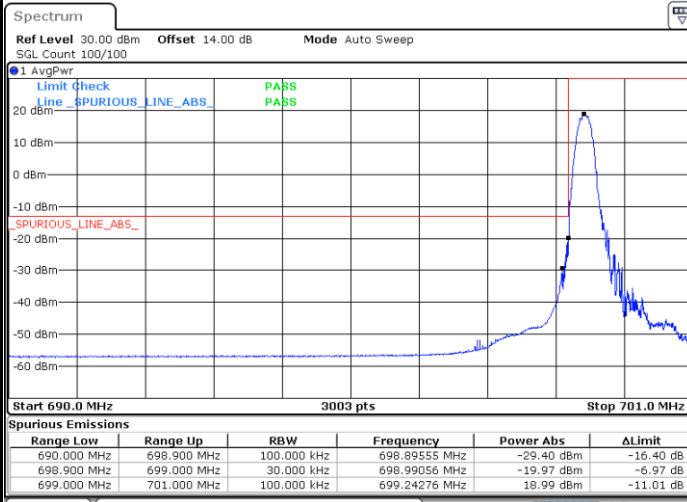


Date: 11.APR.2024 00:48:18



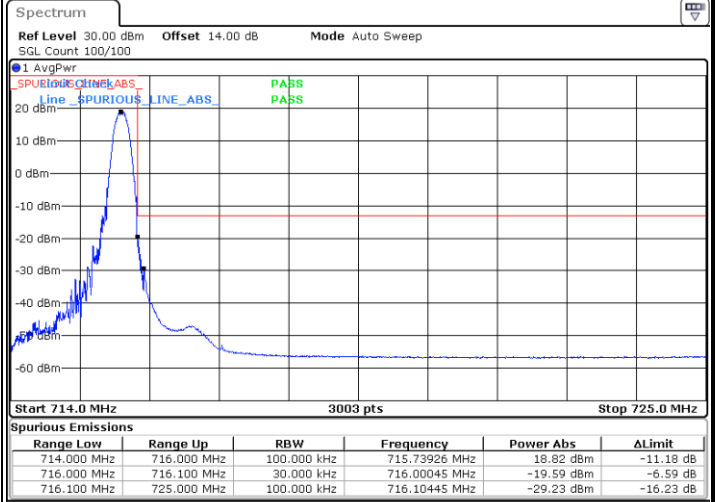
LTE Band 12 / 1.4MHz / 64QAM

Lowest Band Edge / 1 RB



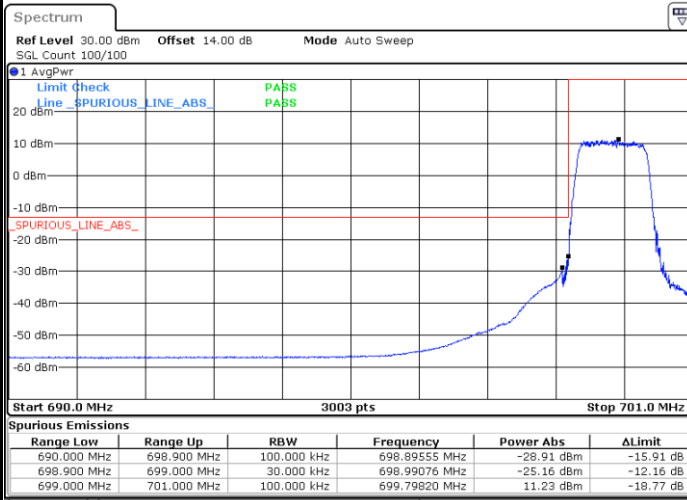
Date: 11.APR.2024 00:35:54

Highest Band Edge / 1 RB



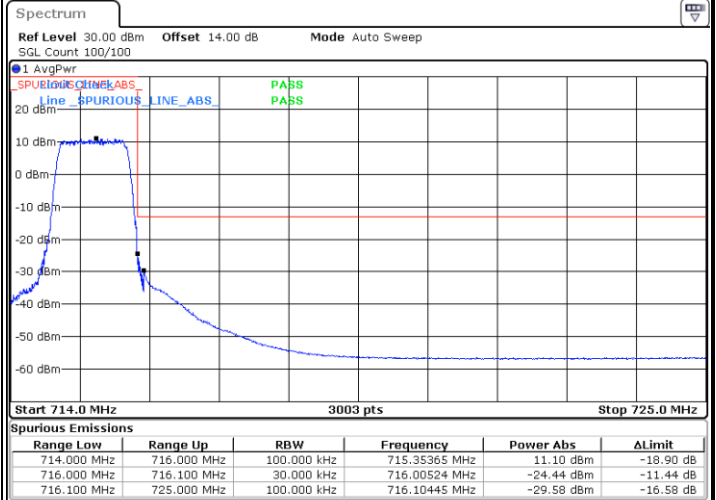
Date: 11.APR.2024 00:46:10

Lowest Band Edge / Full RB



Date: 11.APR.2024 00:39:06

Highest Band Edge / Full RB

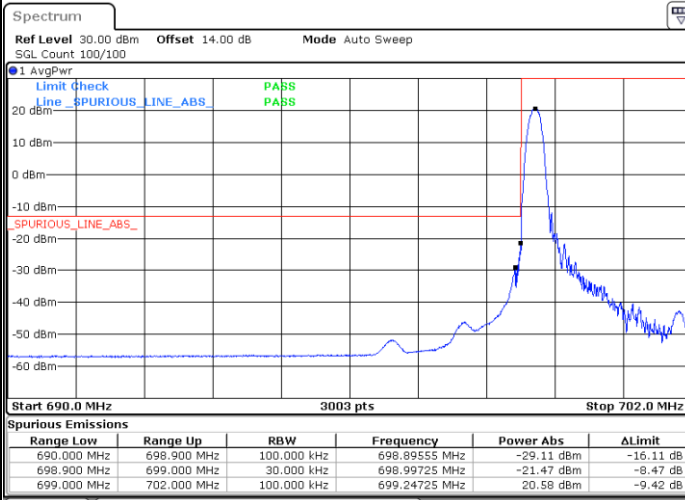


Date: 11.APR.2024 00:49:22



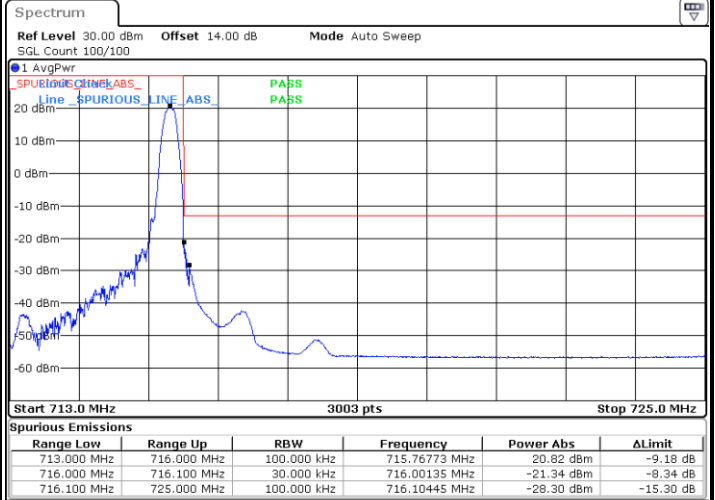
LTE Band 12 / 3MHz / QPSK

Lowest Band Edge / 1RB



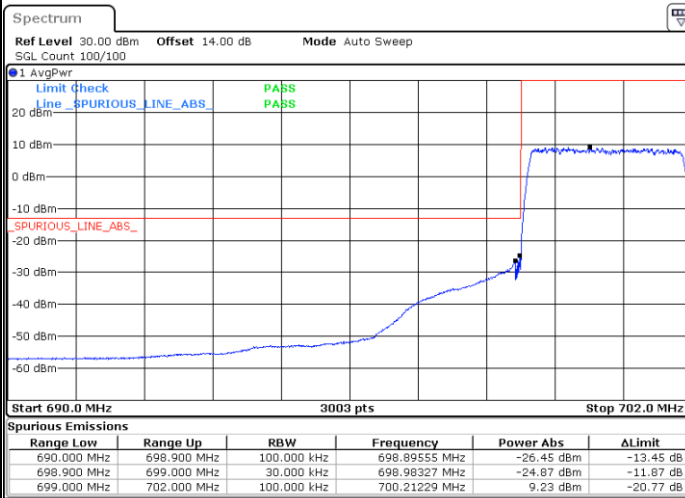
Date: 11.APR.2024 00:51:45

Highest Band Edge / 1RB



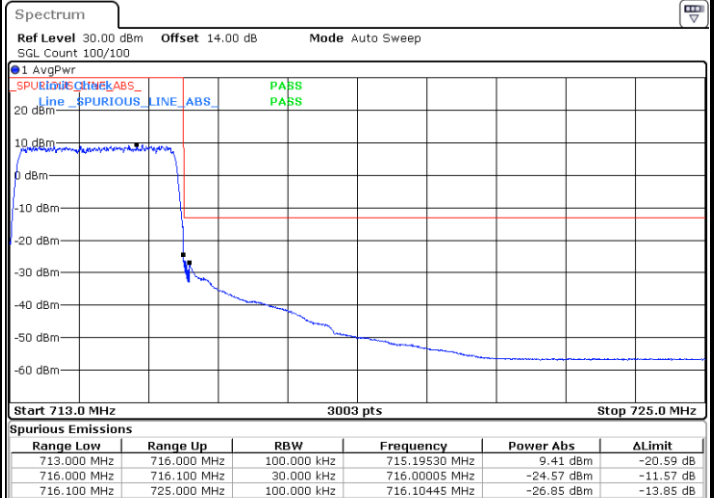
Date: 11.APR.2024 01:02:00

Lowest Band Edge / Full RB



Date: 11.APR.2024 00:54:57

Highest Band Edge / Full RB

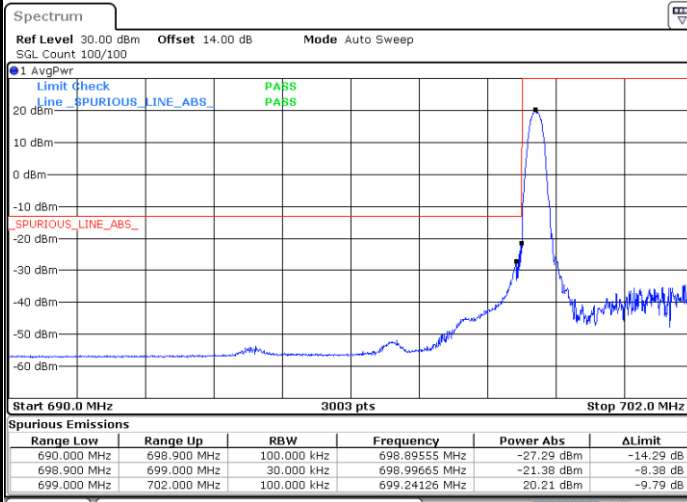


Date: 11.APR.2024 01:05:13



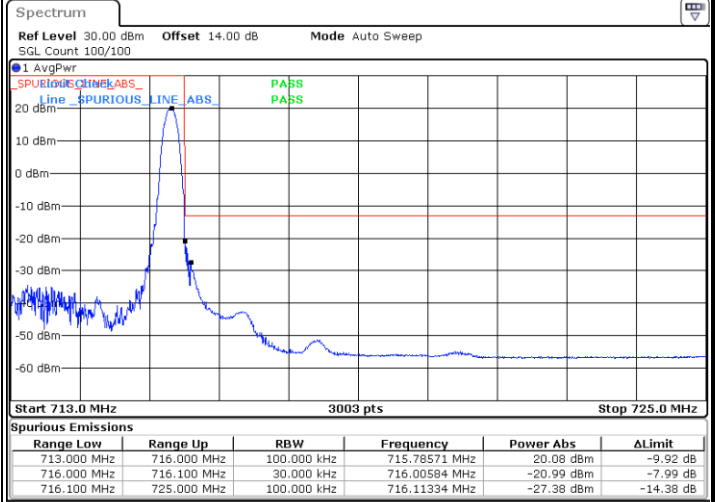
LTE Band 12 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



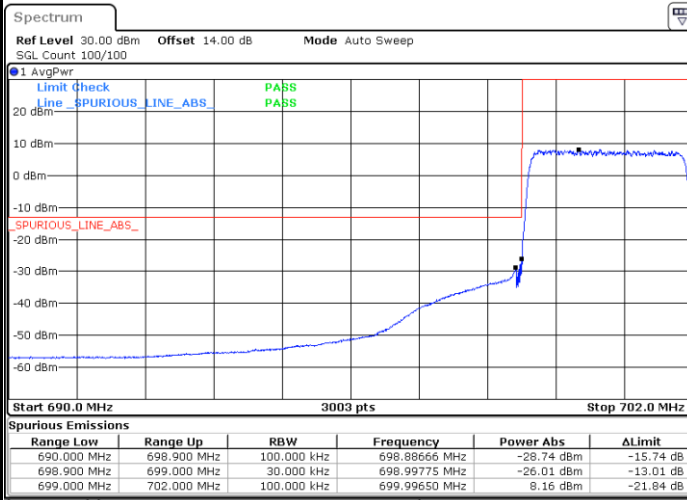
Date: 11.APR.2024 00:52:49

Highest Band Edge / 1 RB



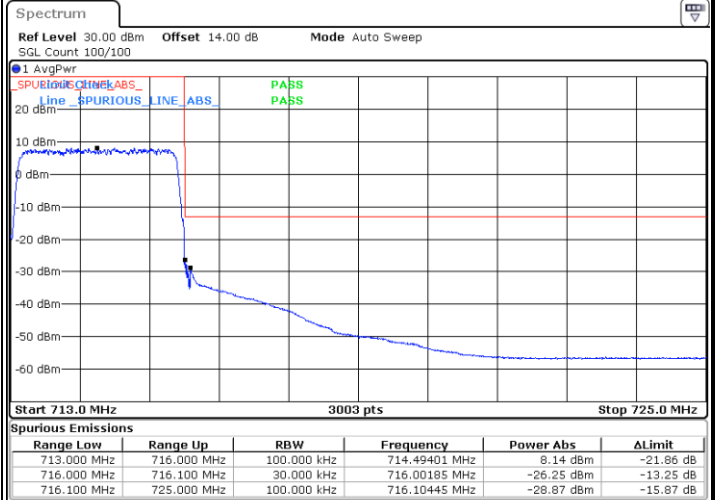
Date: 11.APR.2024 01:03:04

Lowest Band Edge / Full RB



Date: 11.APR.2024 00:56:01

Highest Band Edge / Full RB

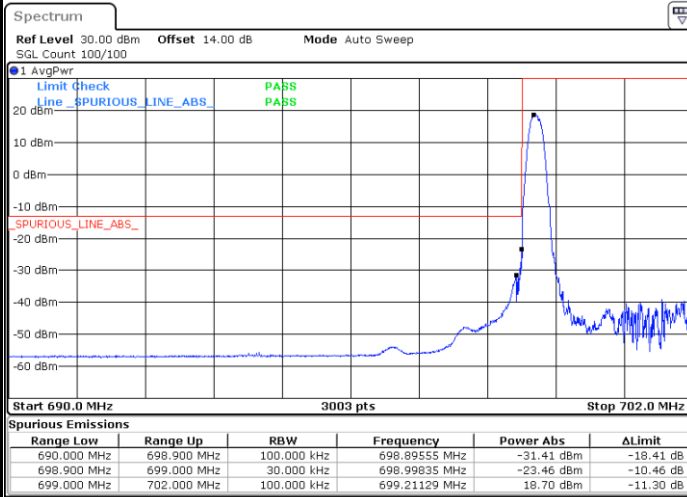


Date: 11.APR.2024 01:06:17



LTE Band 12 / 3MHz / 64QAM

Lowest Band Edge / 1 RB



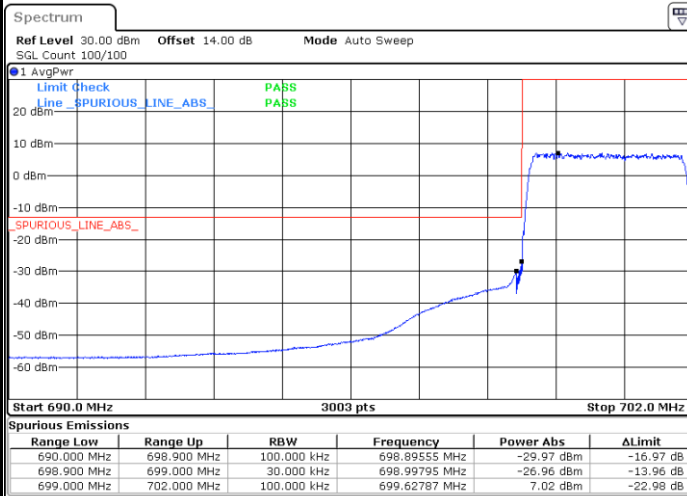
Date: 11.APR.2024 00:53:53

Highest Band Edge / 1 RB



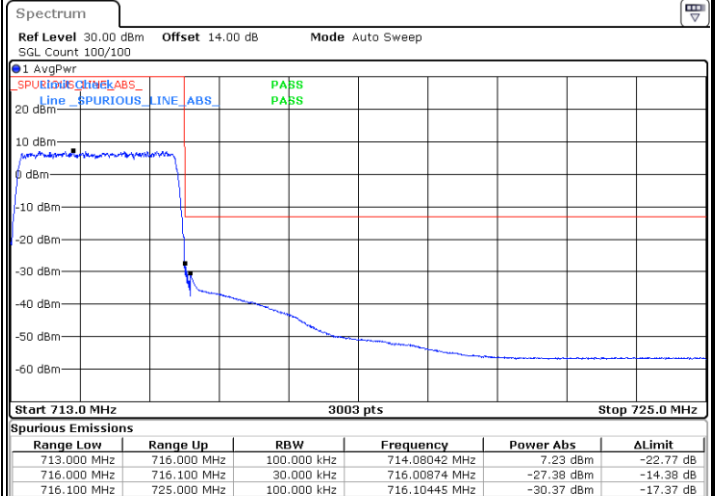
Date: 11.APR.2024 01:04:09

Lowest Band Edge / Full RB



Date: 11.APR.2024 00:57:05

Highest Band Edge / Full RB

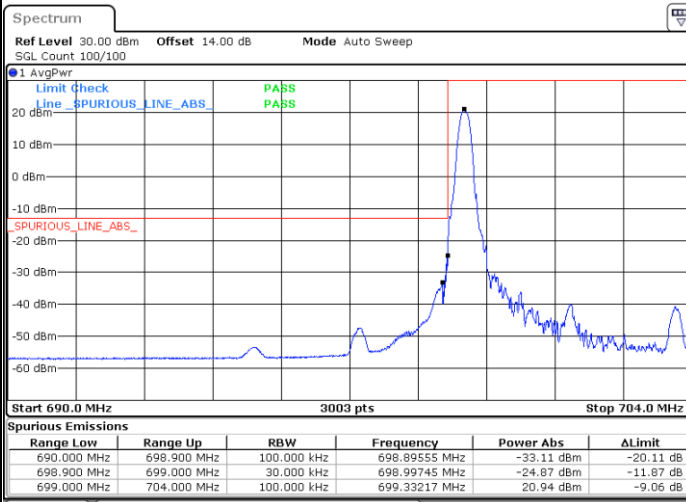


Date: 11.APR.2024 01:07:21



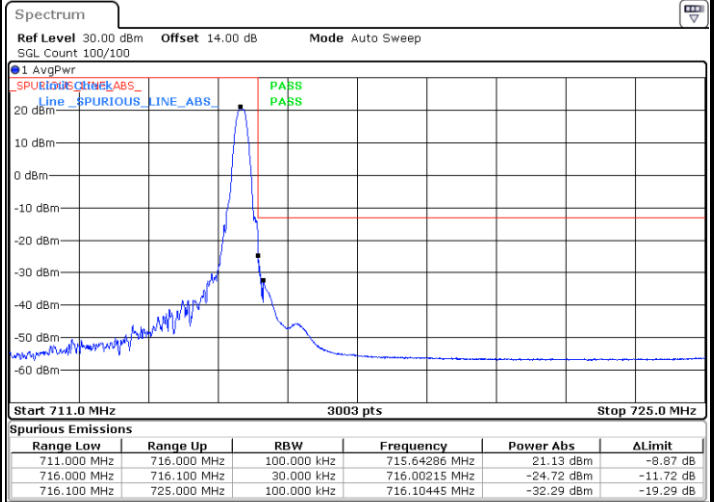
LTE Band 12 / 5MHz / QPSK

Lowest Band Edge / 1RB



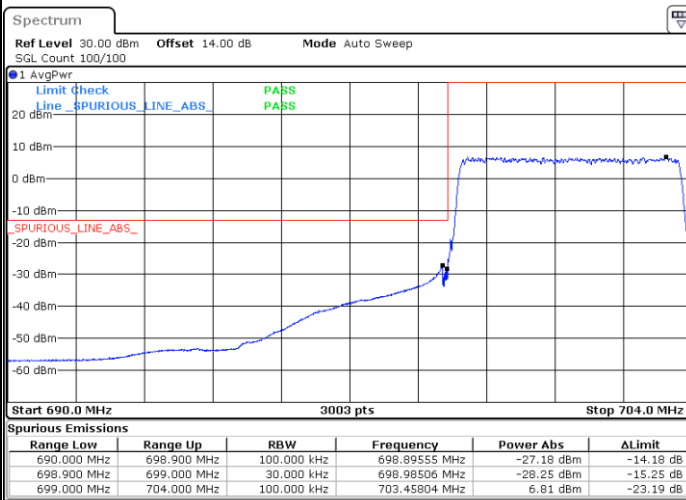
Date: 11.APR.2024 01:09:43

Highest Band Edge / 1RB



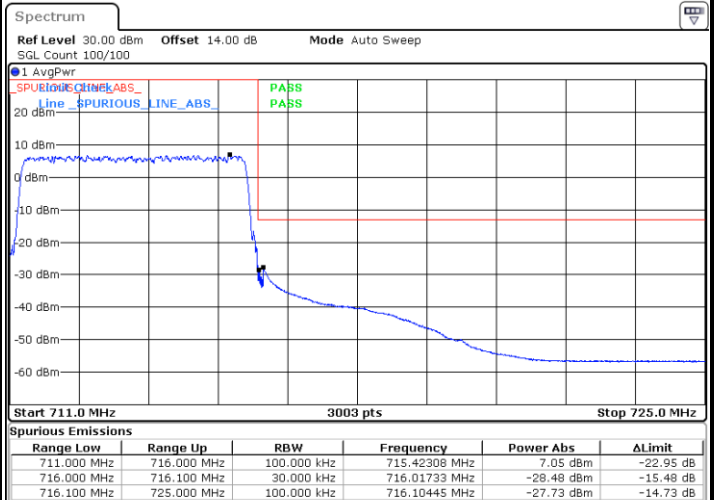
Date: 11.APR.2024 01:19:58

Lowest Band Edge / Full RB



Date: 11.APR.2024 01:12:55

Highest Band Edge / Full RB

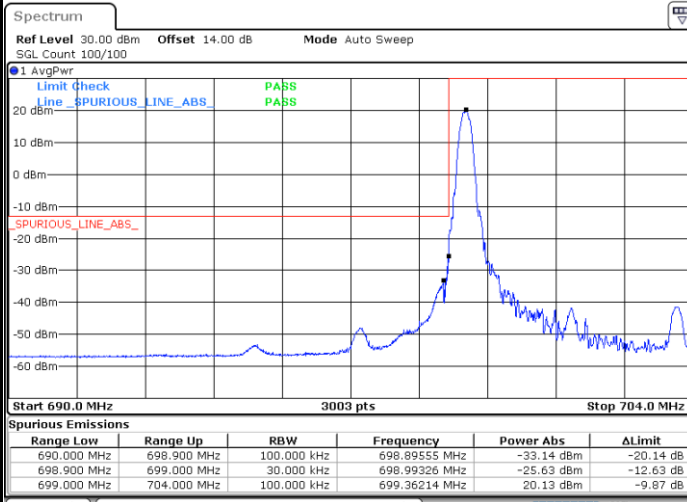


Date: 11.APR.2024 01:23:11



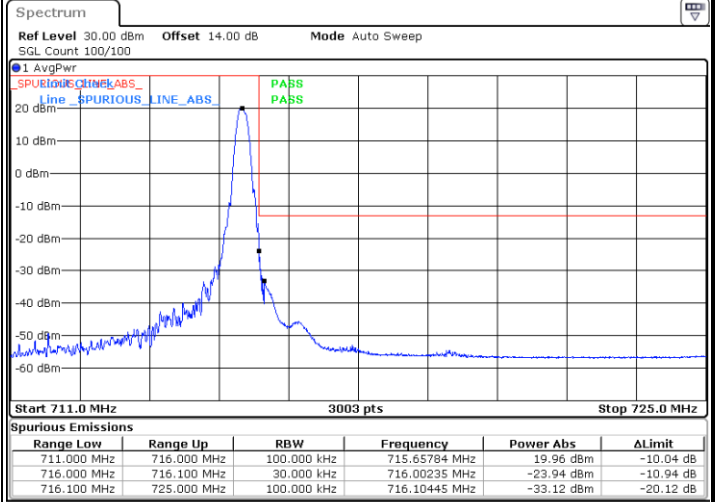
LTE Band 12 / 5MHz / 16QAM

Lowest Band Edge / 1 RB



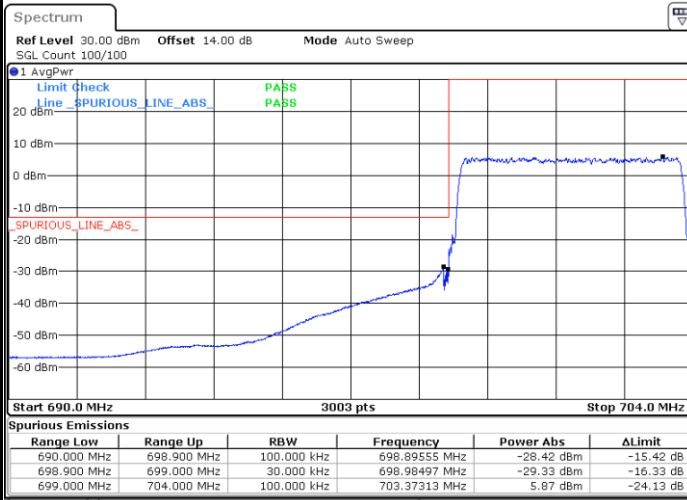
Date: 11.APR.2024 01:10:47

Highest Band Edge / 1 RB



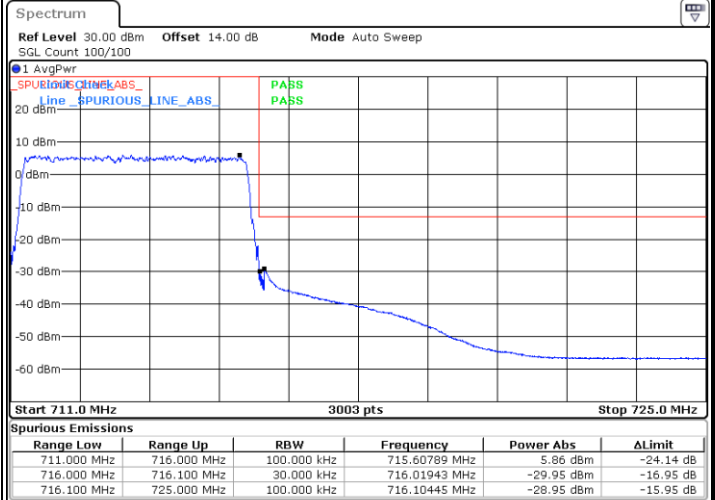
Date: 11.APR.2024 01:21:02

Lowest Band Edge / Full RB



Date: 11.APR.2024 01:13:59

Highest Band Edge / Full RB

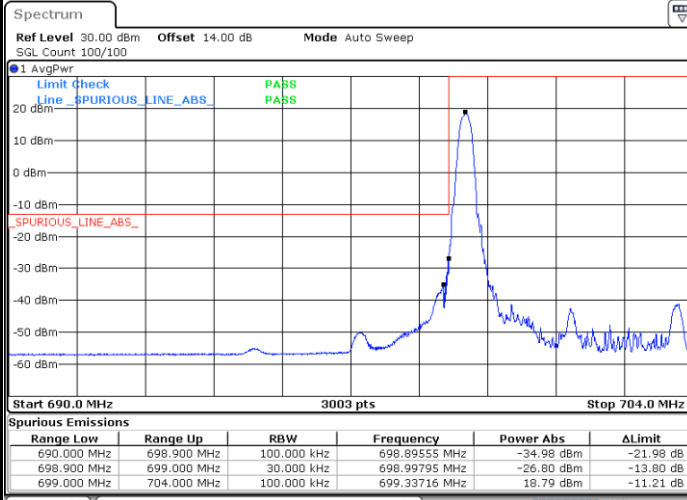


Date: 11.APR.2024 01:24:15



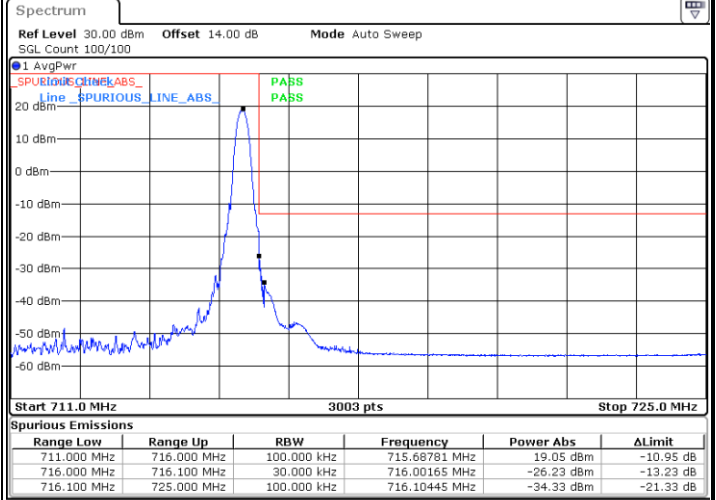
LTE Band 12 / 5MHz / 64QAM

Lowest Band Edge / 1 RB



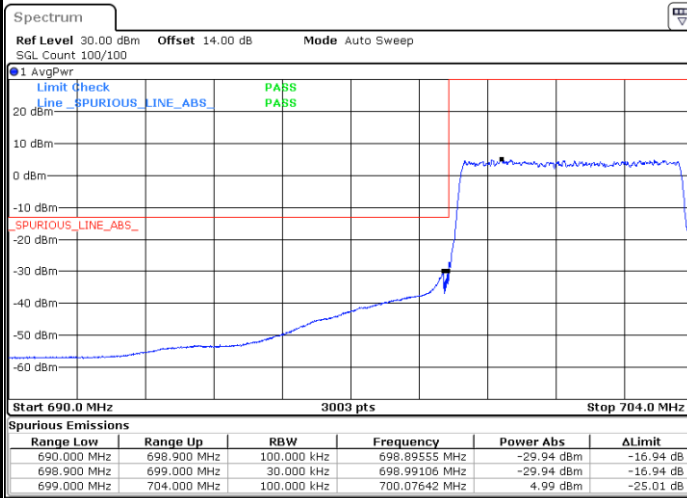
Date: 11.APR.2024 01:11:51

Highest Band Edge / 1 RB



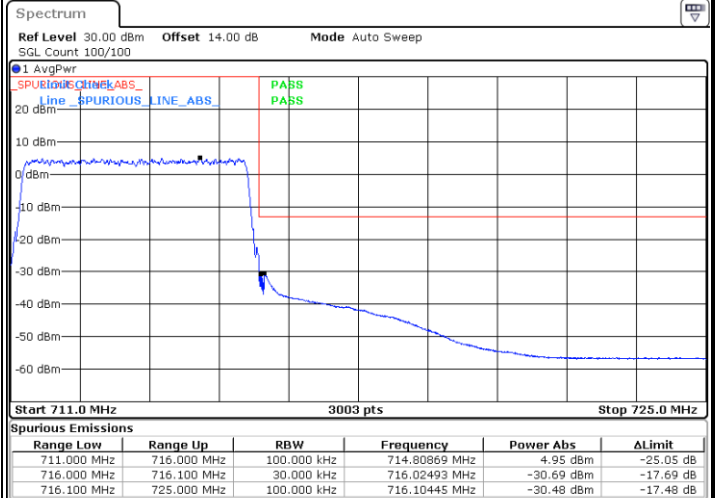
Date: 11.APR.2024 01:22:06

Lowest Band Edge / Full RB



Date: 11.APR.2024 01:15:03

Highest Band Edge / Full RB

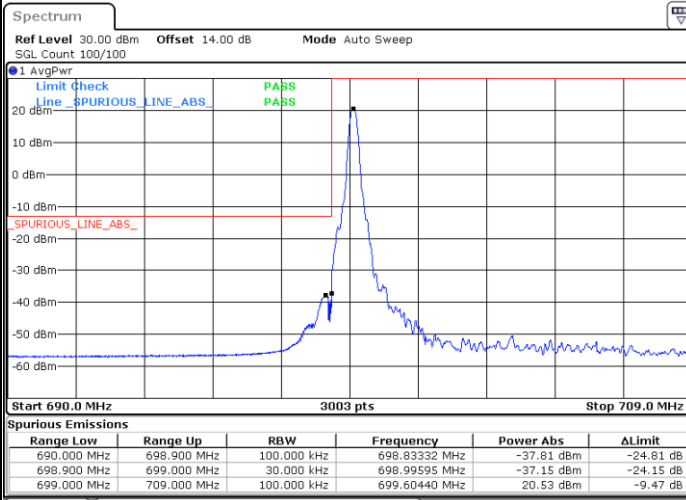


Date: 11.APR.2024 01:25:19



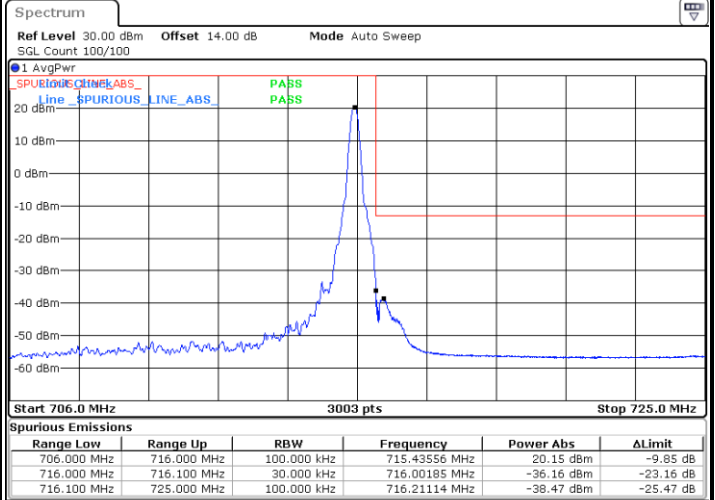
LTE Band 12 / 10MHz / QPSK

Lowest Band Edge / 1RB



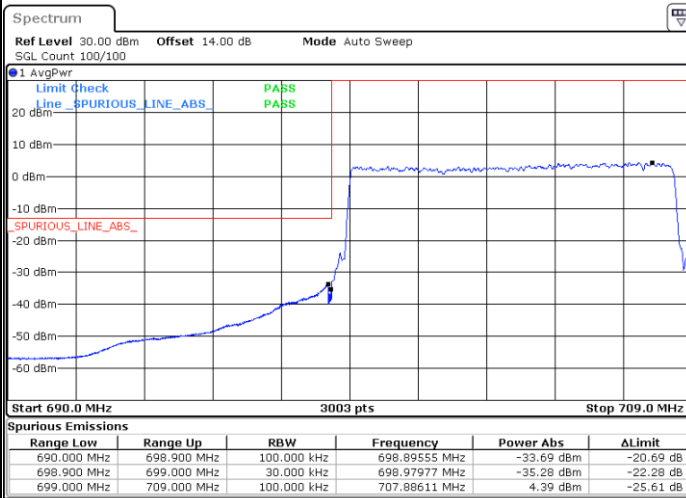
Date: 11.APR.2024 01:27:41

Highest Band Edge / 1RB



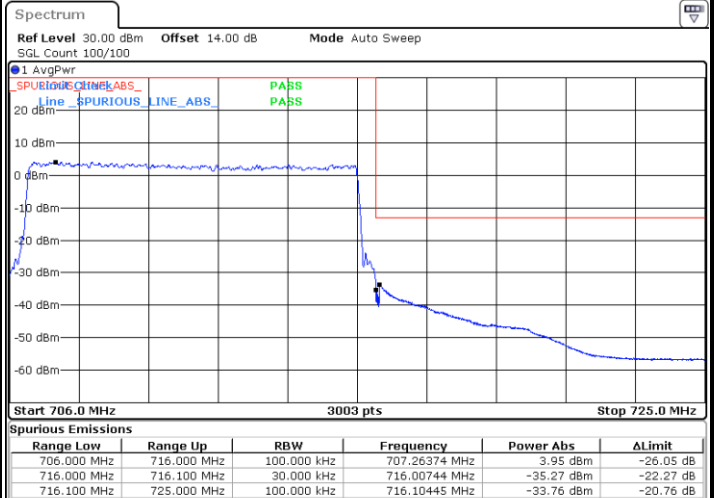
Date: 11.APR.2024 01:37:57

Lowest Band Edge / Full RB



Date: 11.APR.2024 01:30:54

Highest Band Edge / Full RB

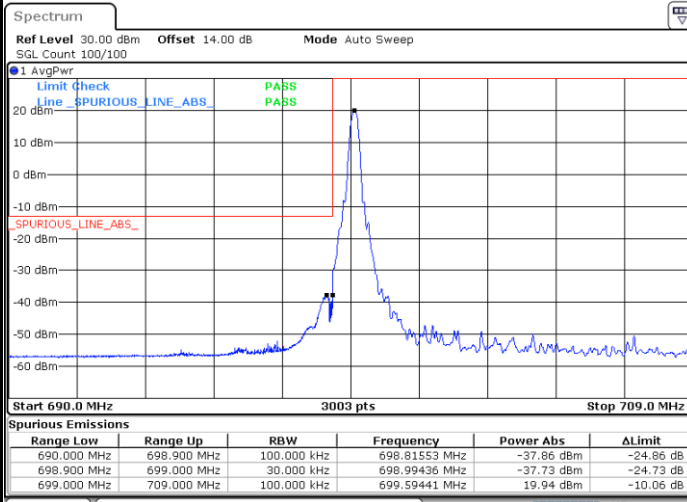


Date: 11.APR.2024 01:41:09



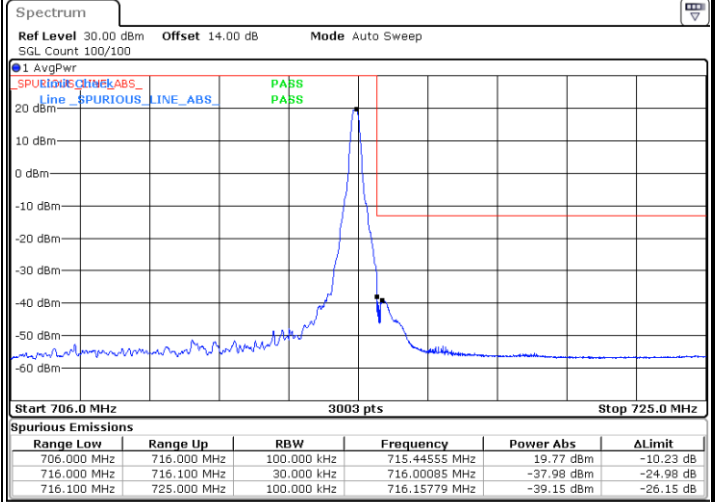
LTE Band 12 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



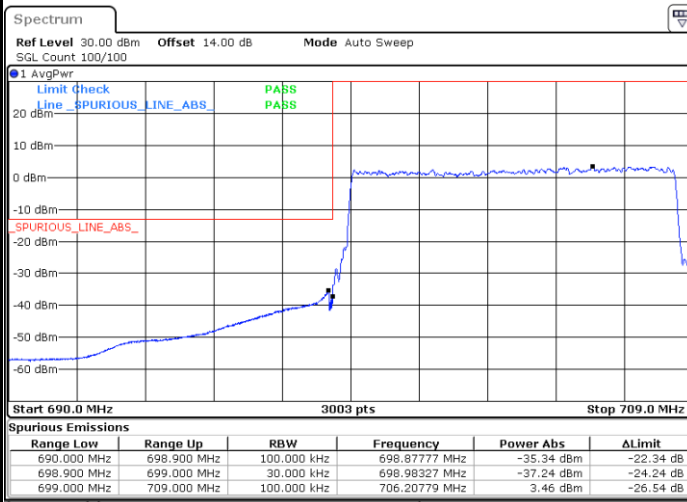
Date: 11.APR.2024 01:28:45

Highest Band Edge / 1 RB



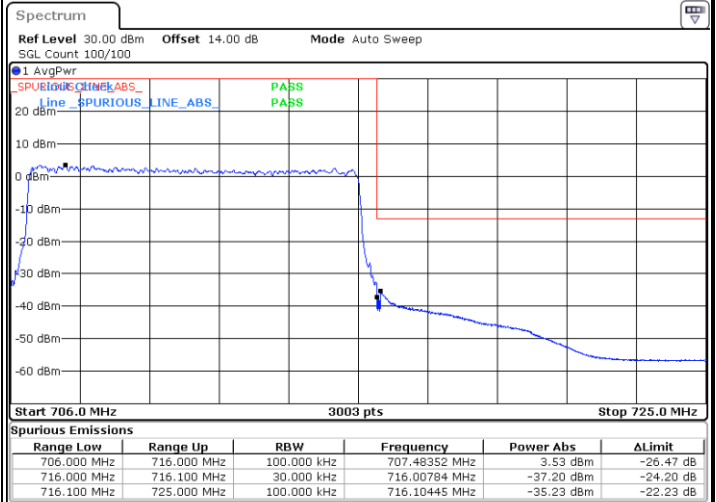
Date: 11.APR.2024 01:39:01

Lowest Band Edge / Full RB



Date: 11.APR.2024 01:31:58

Highest Band Edge / Full RB

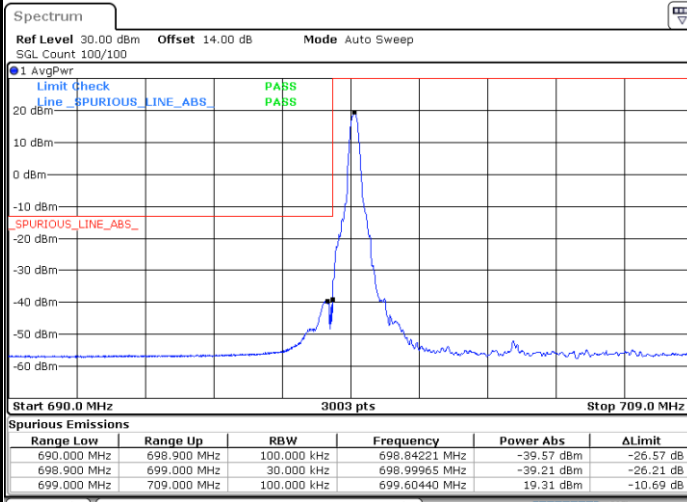


Date: 11.APR.2024 01:42:13



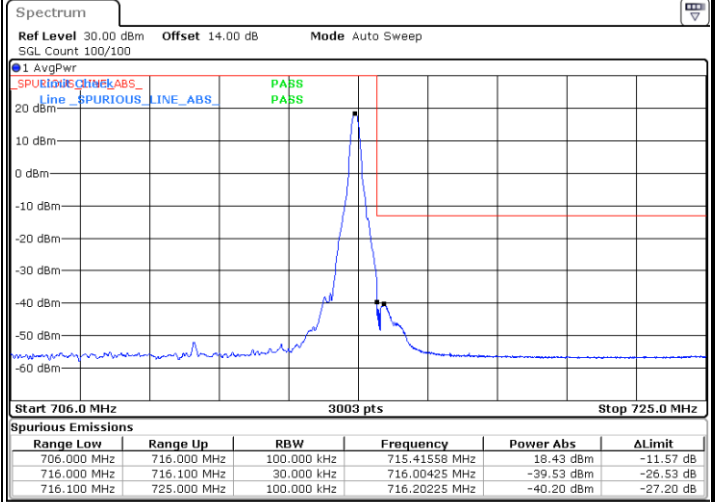
LTE Band 12 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



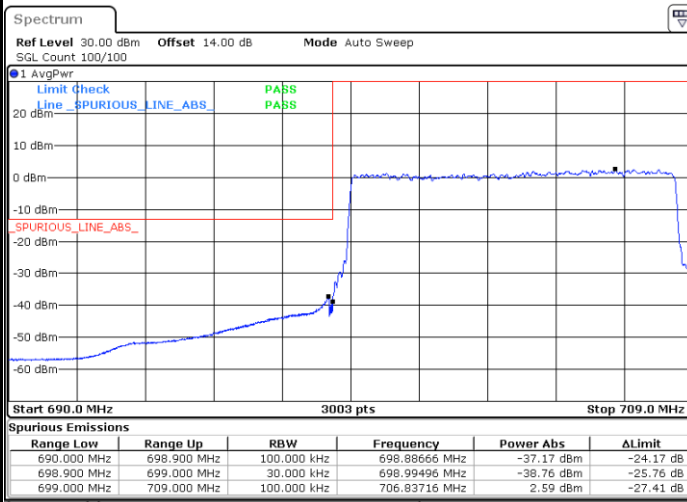
Date: 11.APR.2024 01:29:49

Highest Band Edge / 1 RB



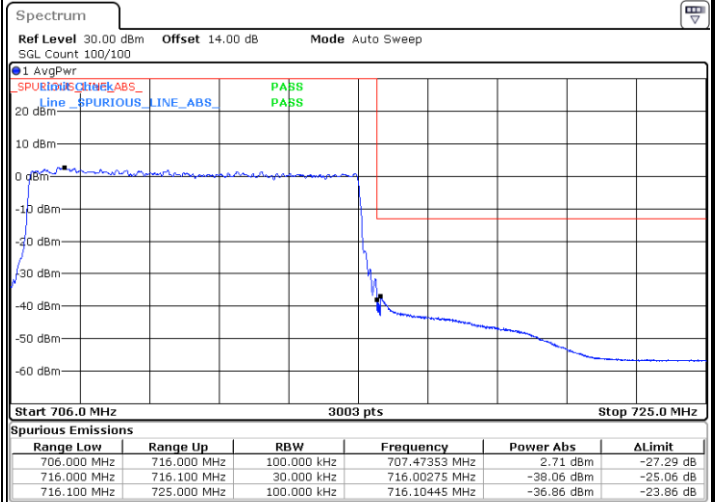
Date: 11.APR.2024 01:40:05

Lowest Band Edge / Full RB



Date: 11.APR.2024 01:33:02

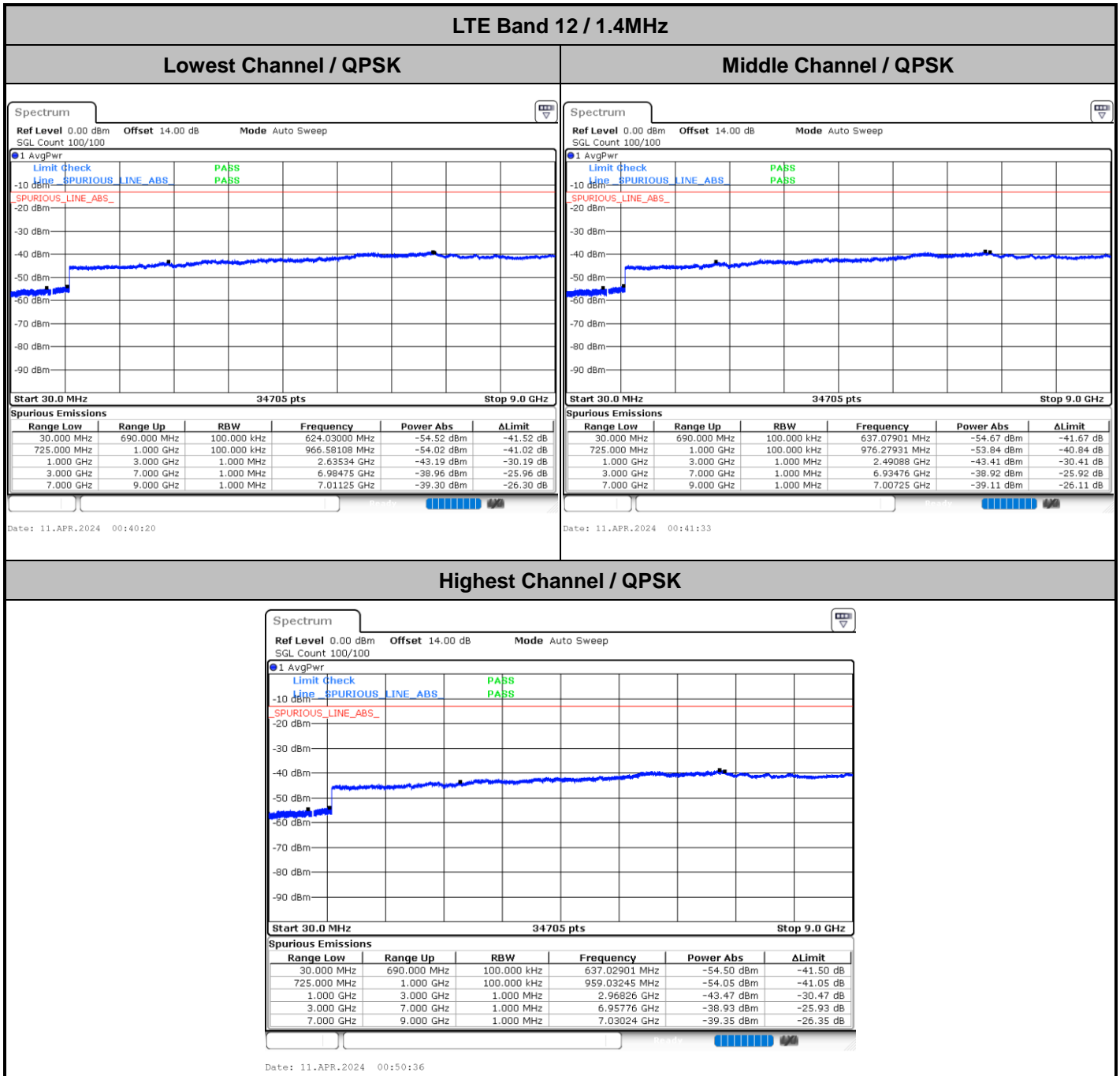
Highest Band Edge / Full RB



Date: 11.APR.2024 01:43:17



A3.5 Conducted Spurious Emission

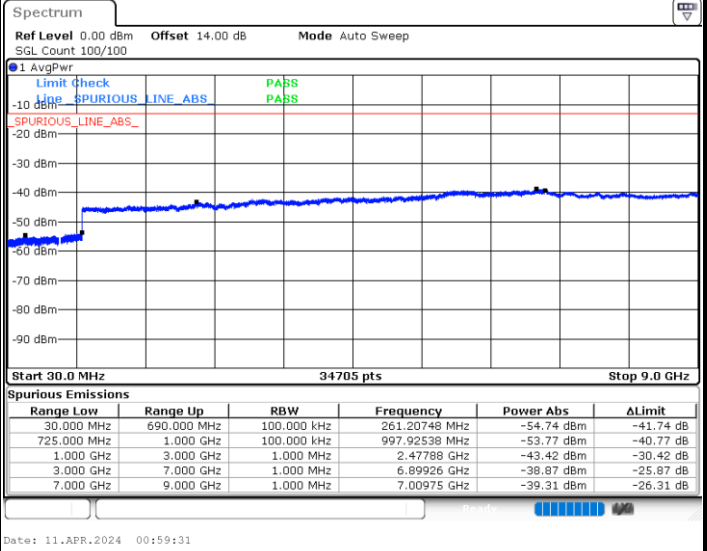
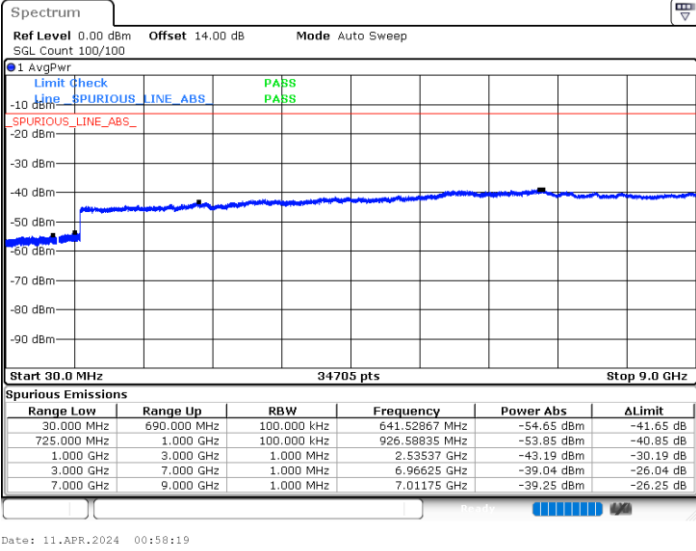




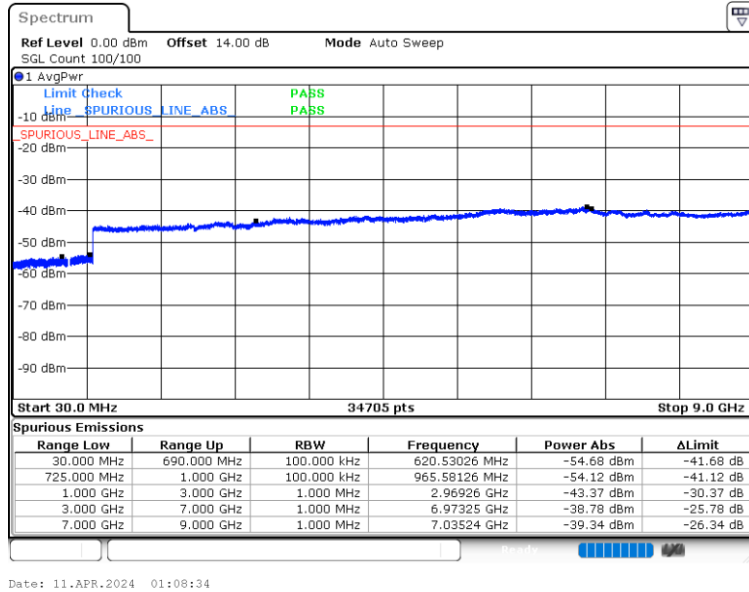
LTE Band 12 / 3MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK

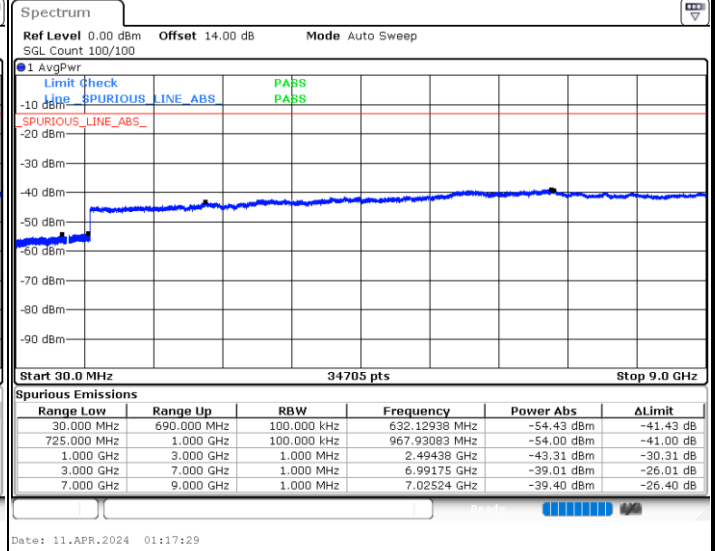
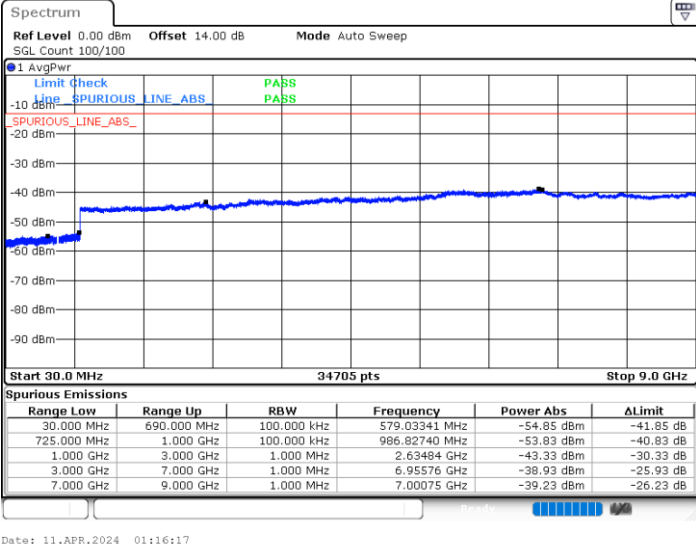




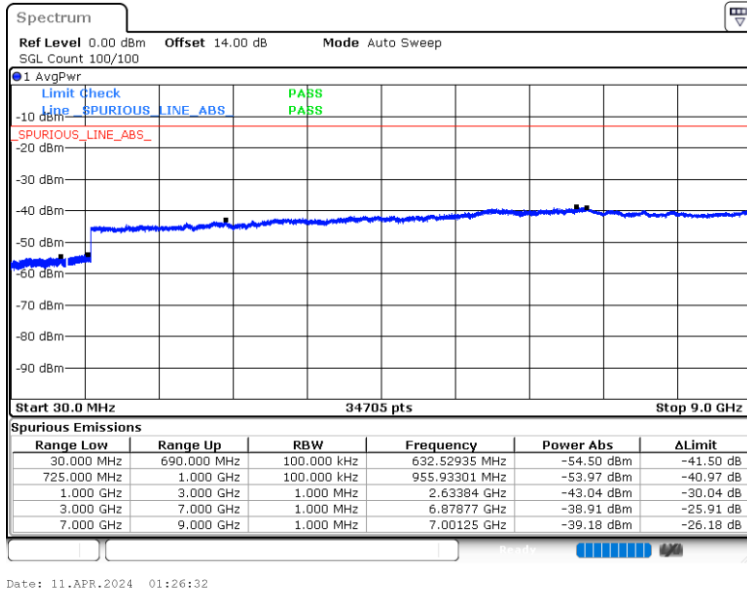
LTE Band 12 / 5MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK

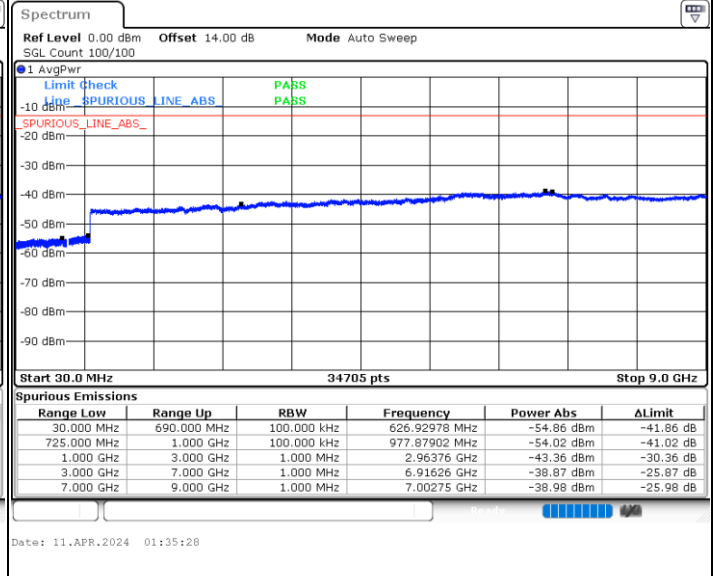
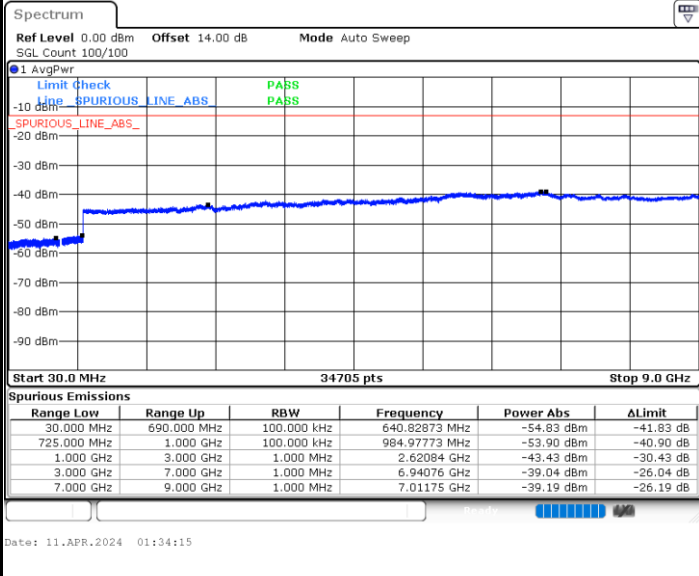




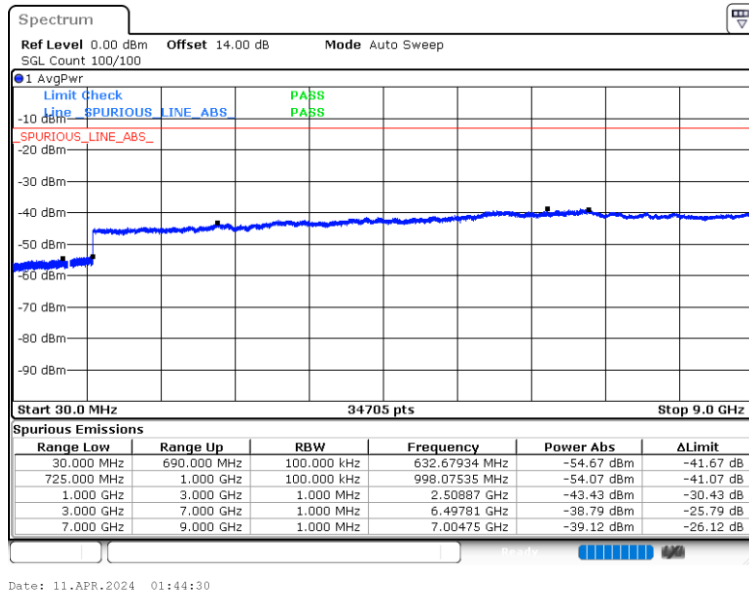
LTE Band 12 / 10MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK





A3.6 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	0.0004	PASS
40	Normal Voltage	0.0002	
30	Normal Voltage	0.0001	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0007	
0	Normal Voltage	0.0008	
-10	Normal Voltage	0.0002	
-20	Normal Voltage	0.0000	
-30	Normal Voltage	0.0001	
20	Maximum Voltage	0.0007	
20	Normal Voltage	0.0000	
20	Minimum Voltage	0.0002	

Note:

1. Normal Voltage = 12 V. ; Minimum Voltage = 10.8 V. ; Maximum Voltage = 13.2 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



A4. LTE Band 13

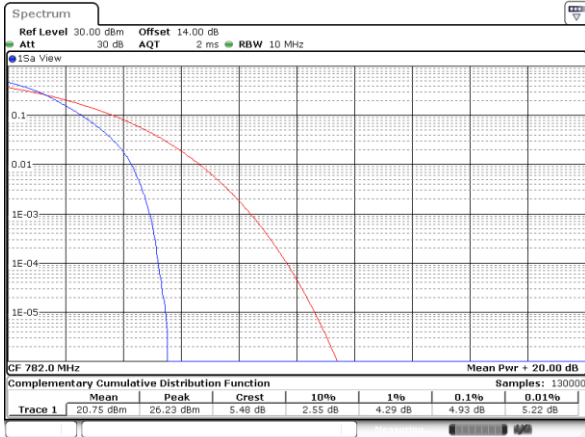
A4.1 Peak-to-Average Ratio

Mode	LTE Band 13 / 10MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	4.93	5.86	6.49	PASS



LTE Band 13 / 10MHz / QPSK

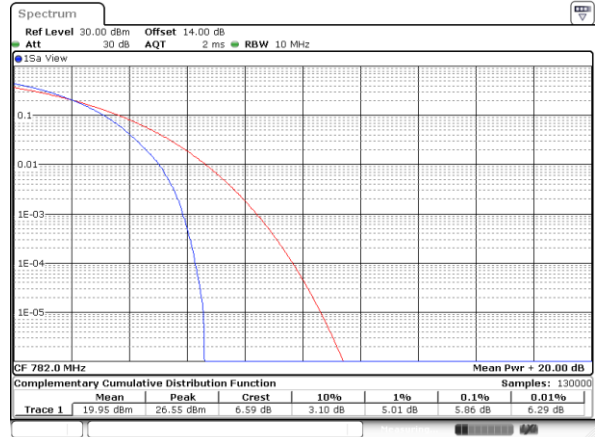
Middle Channel / Full RB



Date: 11.APR.2024 09:52:10

LTE Band 13 / 10MHz / 16QAM

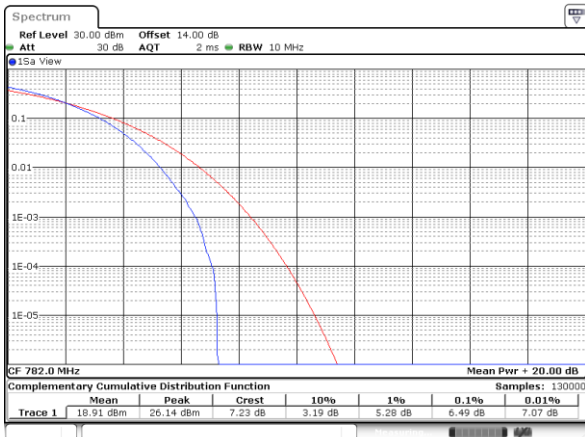
Middle Channel / Full RB



Date: 11.APR.2024 09:52:37

LTE Band 13 / 10MHz / 64QAM

Middle Channel / Full RB



Date: 11.APR.2024 09:53:04



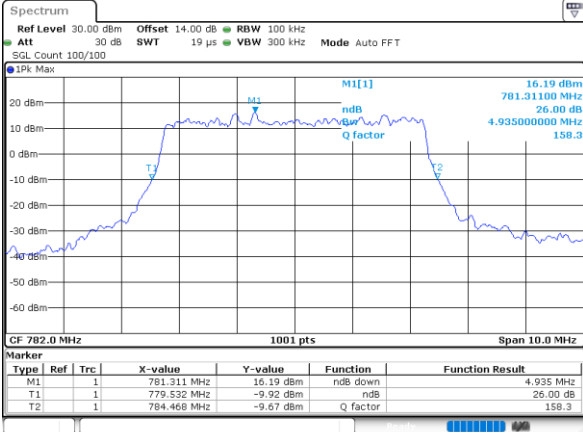
A4.2 26dB Bandwidth

Mode	LTE Band 13 : 26dB BW(MHz)			
	5MHz		10MHz	
BW				
Mod.	QPSK	16QAM	QPSK	16QAM
Middle CH	4.94	5.01	10.19	9.93



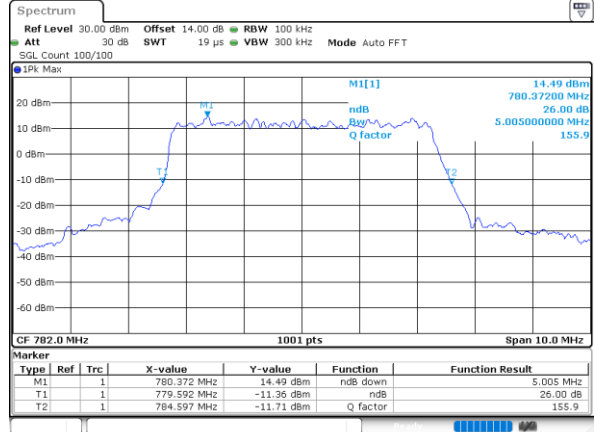
LTE Band 13

Middle Channel / 5MHz / QPSK



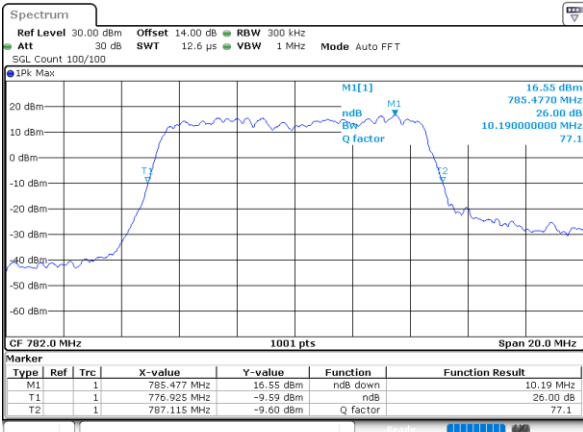
Date: 11.APR.2024 01:54:10

Middle Channel / 5MHz / 16QAM



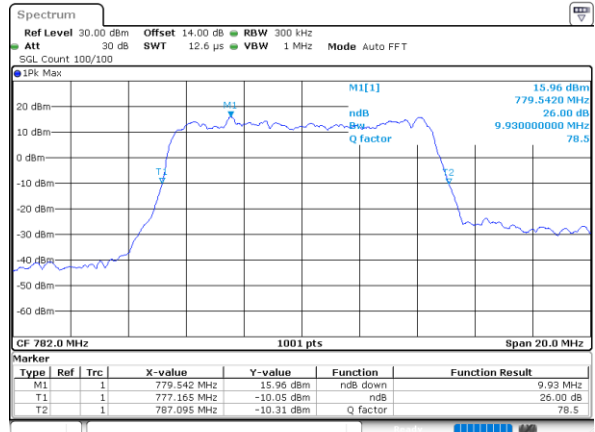
Date: 11.APR.2024 01:54:52

Middle Channel / 10MHz / QPSK



Date: 11.APR.2024 09:51:04

Middle Channel / 10MHz / 16QAM



Date: 11.APR.2024 09:51:44



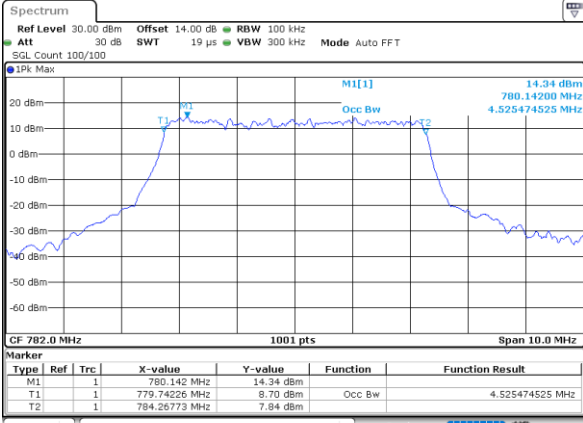
A4.3 Occupied Bandwidth

Mode	LTE Band 13 : 99%OBW(MHz)			
	5MHz		10MHz	
BW				
Mod.	QPSK	16QAM	QPSK	16QAM
Middle CH	4.53	4.49	9.01	9.03



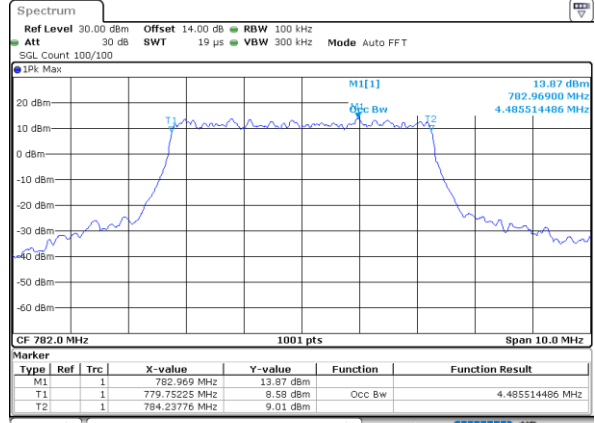
LTE Band 13

Middle Channel / 5MHz / QPSK



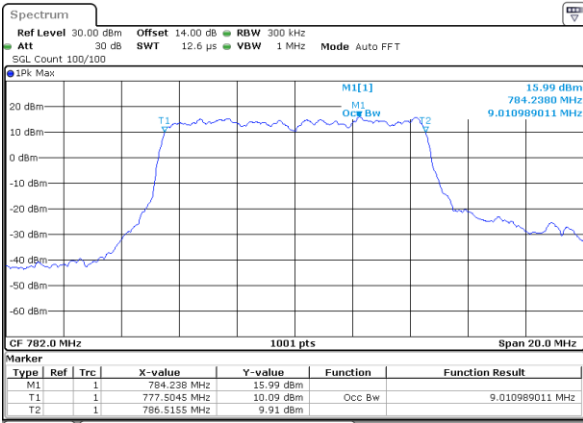
Date: 11.APR.2024 01:53:56

Middle Channel / 5MHz / 16QAM



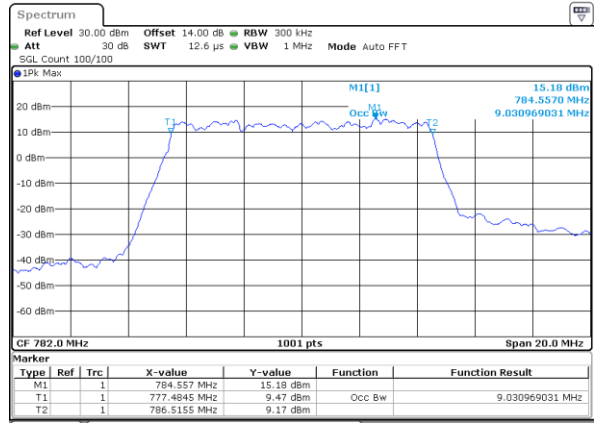
Date: 11.APR.2024 01:54:38

Middle Channel / 10MHz / QPSK



Date: 11.APR.2024 09:50:50

Middle Channel / 10MHz / 16QAM



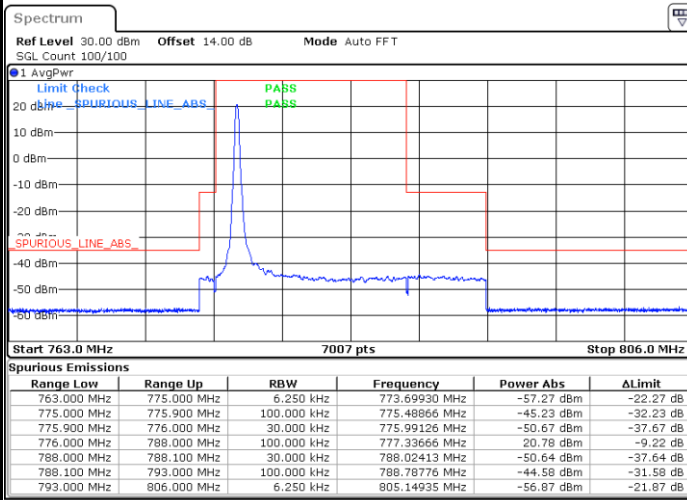
Date: 11.APR.2024 09:51:30



A4.4 Conducted Band Edge

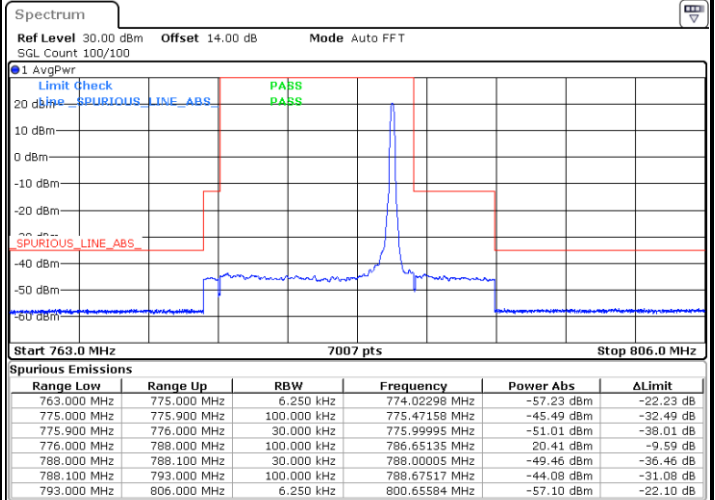
LTE Band 13 / 5MHz / QPSK

Lowest Band Edge / 1 RB



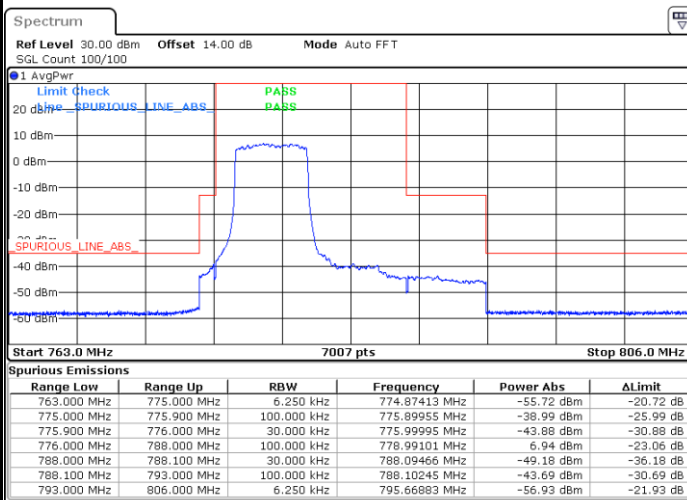
Date: 11.APR.2024 01:45:39

Highest Band Edge / 1 RB



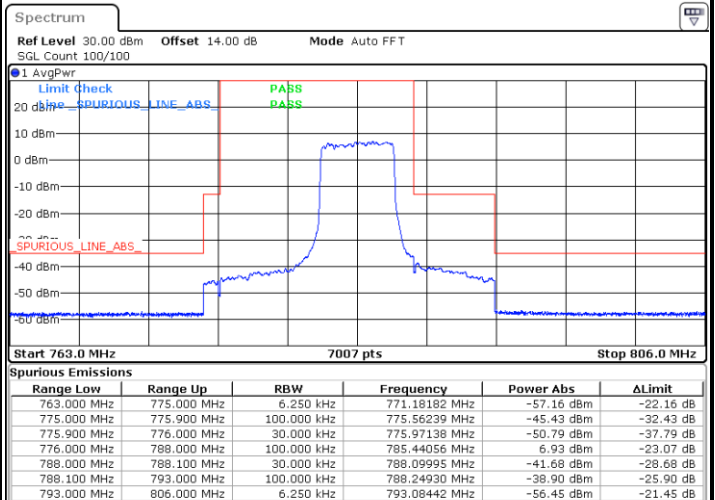
Date: 11.APR.2024 01:55:56

Lowest Band Edge / Full RB



Date: 11.APR.2024 01:48:52

Highest Band Edge / Full RB

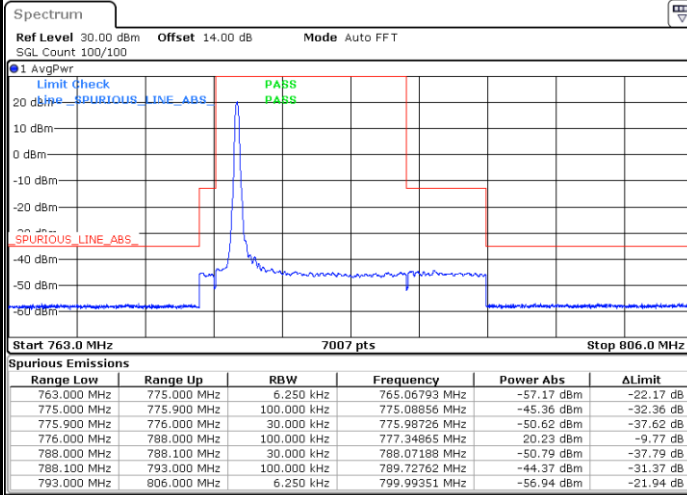


Date: 11.APR.2024 01:59:08



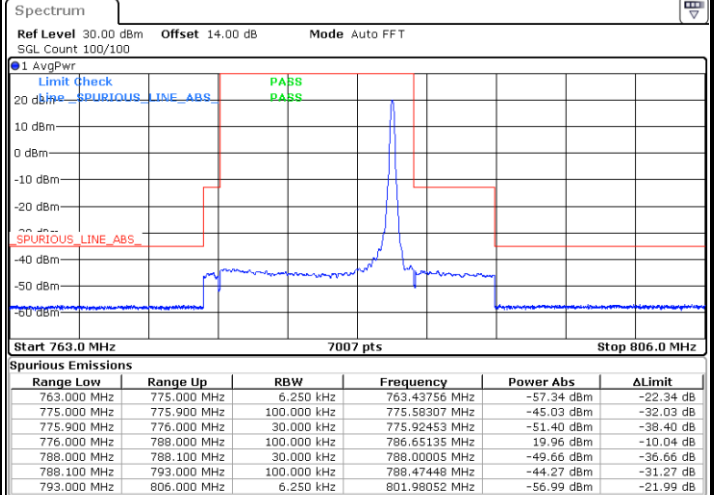
LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1 RB



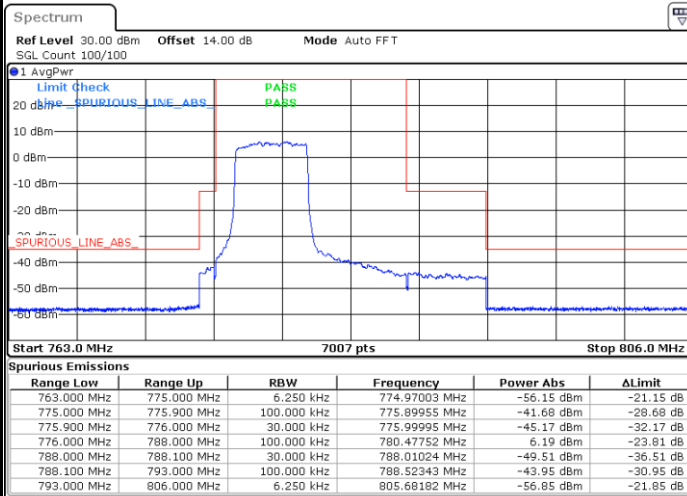
Date: 11.APR.2024 01:46:44

Highest Band Edge / 1 RB



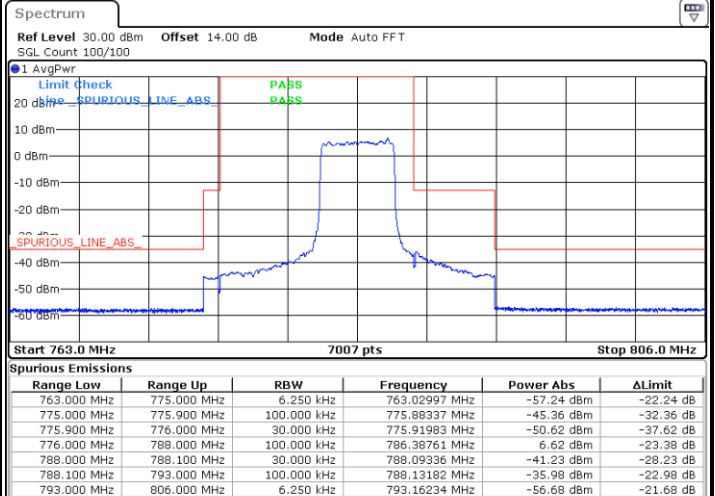
Date: 11.APR.2024 01:57:00

Lowest Band Edge / Full RB



Date: 11.APR.2024 01:49:56

Highest Band Edge / Full RB



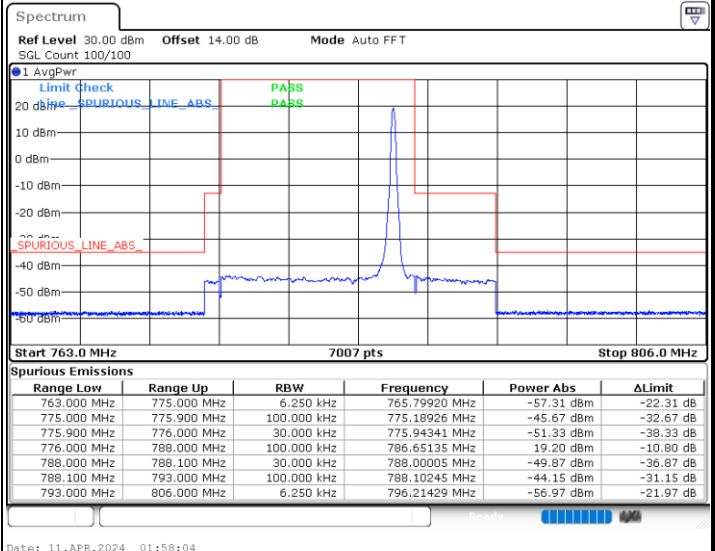
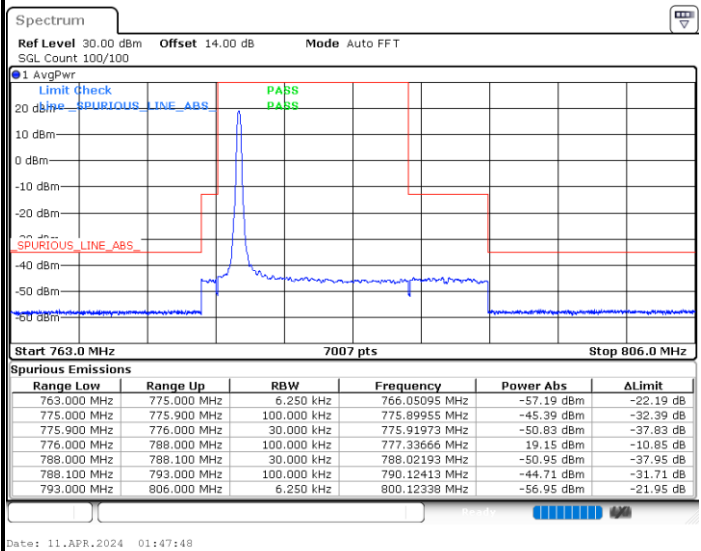
Date: 11.APR.2024 02:00:12



LTE Band 13 / 5MHz / 64QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

