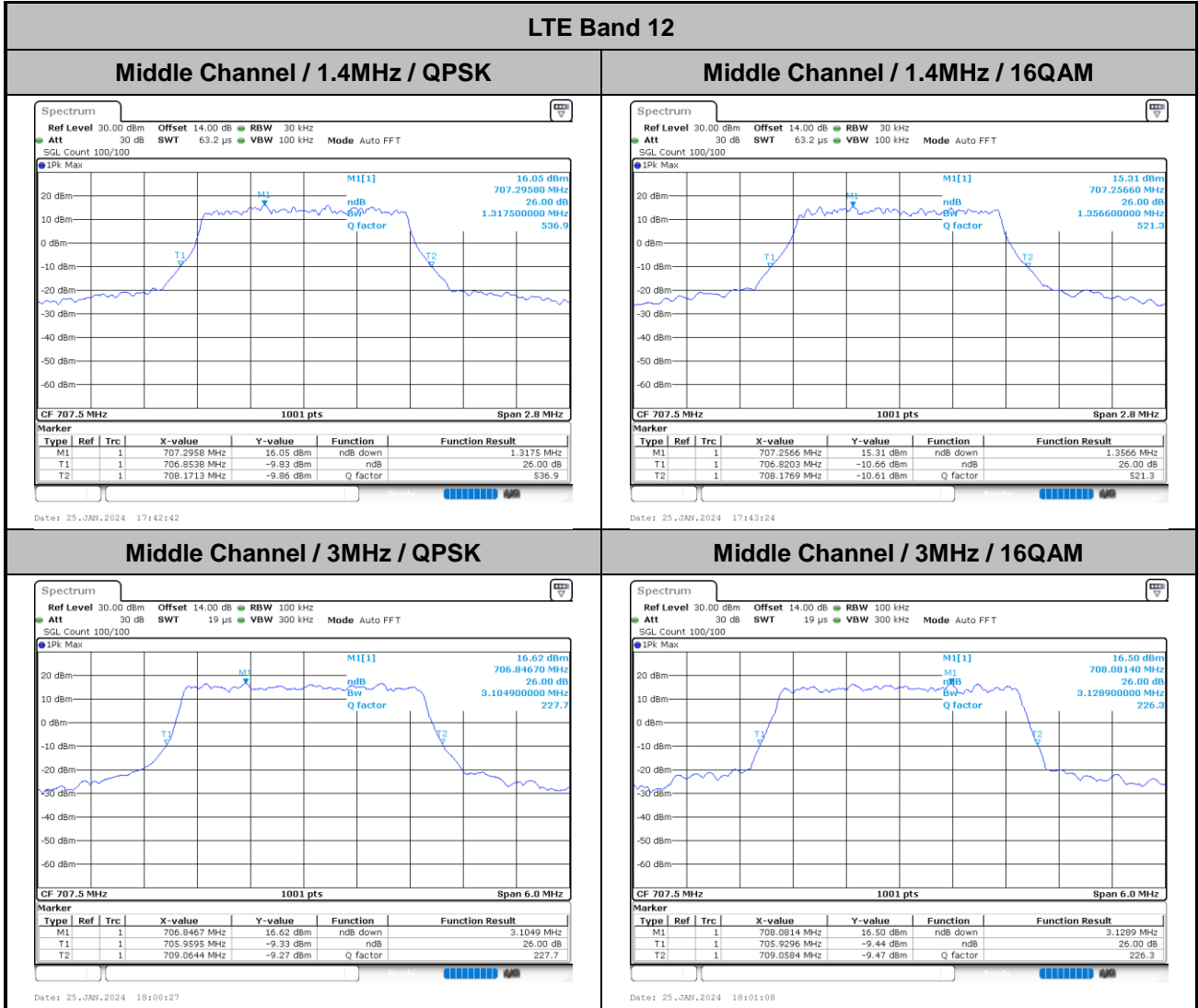




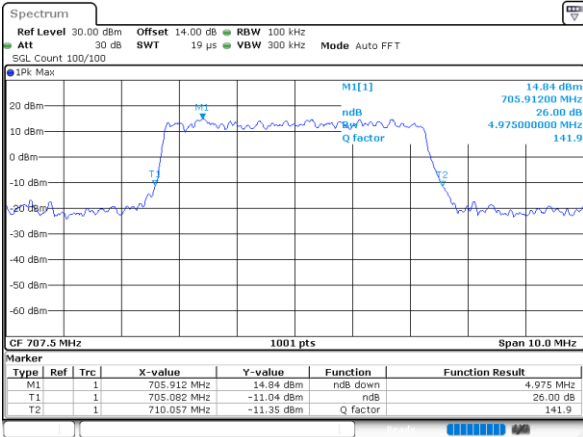
26dB Bandwidth

Mode	LTE Band 12 : 26dB BW(MHz)							
BW	1.4MHz		3MHz		5MHz		10MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	1.32	1.36	3.10	3.13	4.98	4.97	9.73	9.85



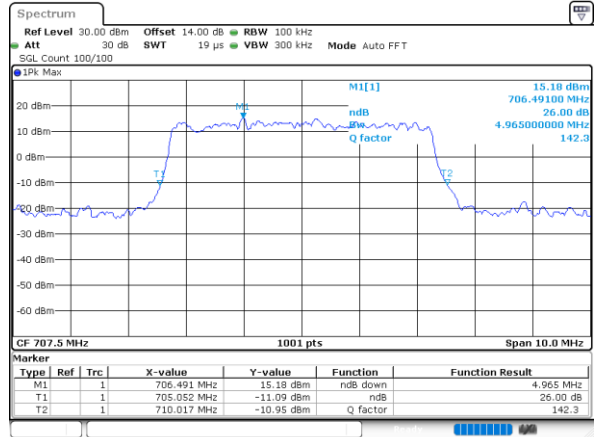


Middle Channel / 5MHz / QPSK



Date: 25, JAN, 2024 18:18:10

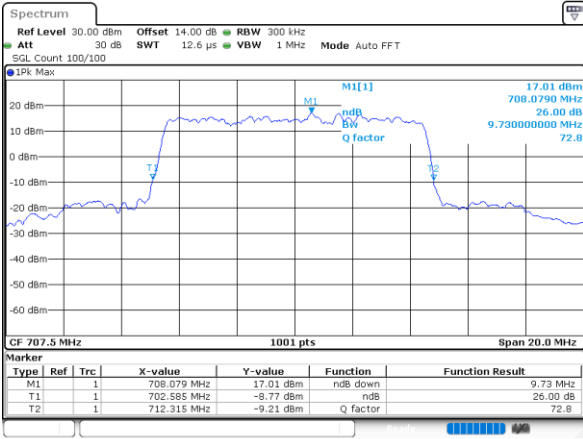
Middle Channel / 5MHz / 16QAM



Date: 25, JAN, 2024 18:18:52

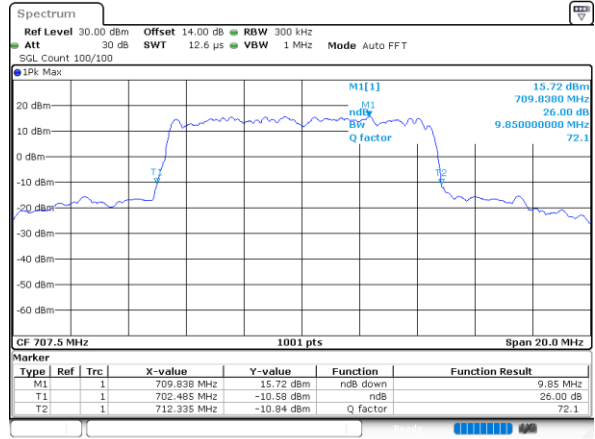
LTE Band 12

Middle Channel / 10MHz / QPSK



Date: 25, JAN, 2024 18:35:51

Middle Channel / 10MHz / 16QAM

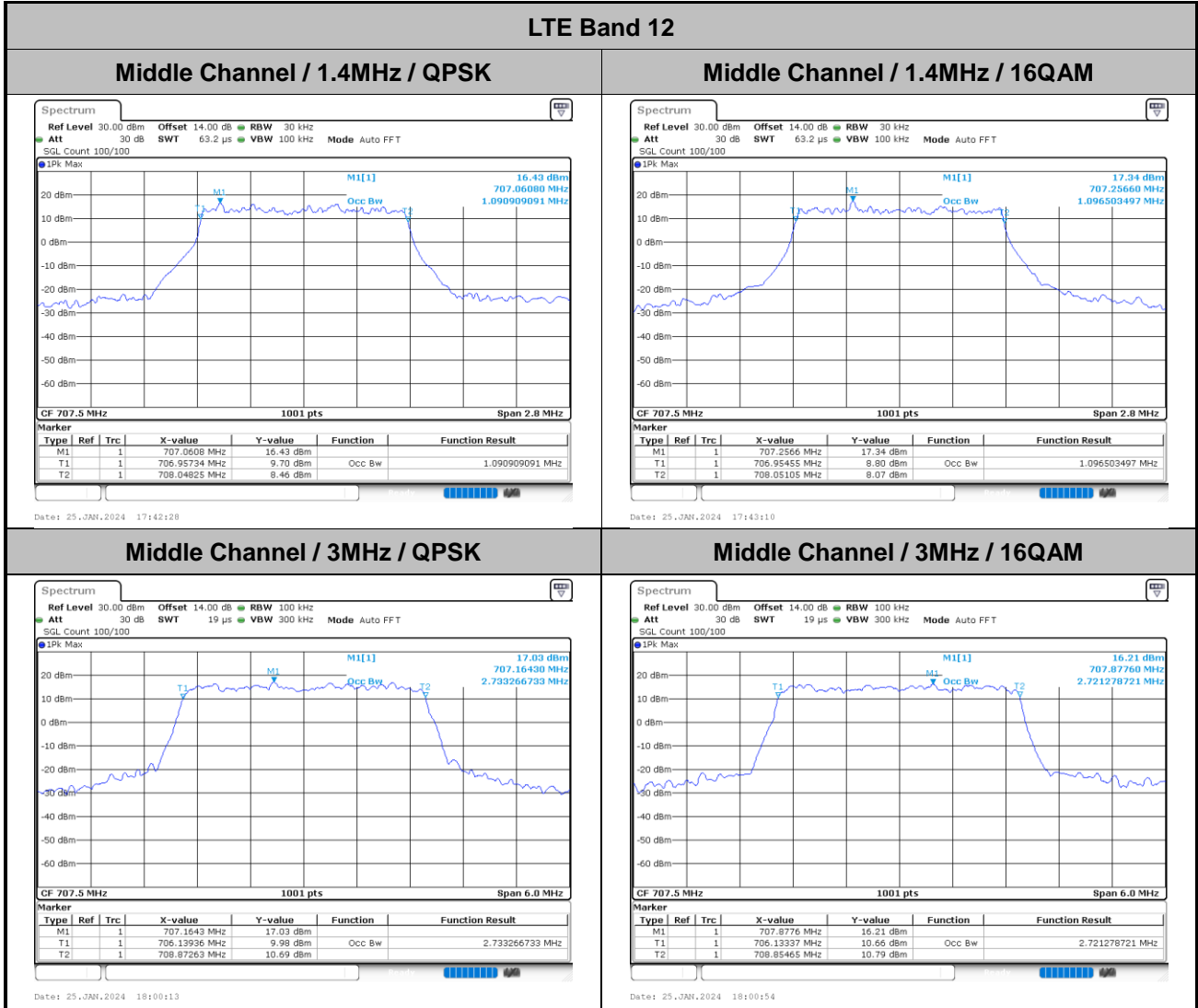


Date: 25, JAN, 2024 18:36:32



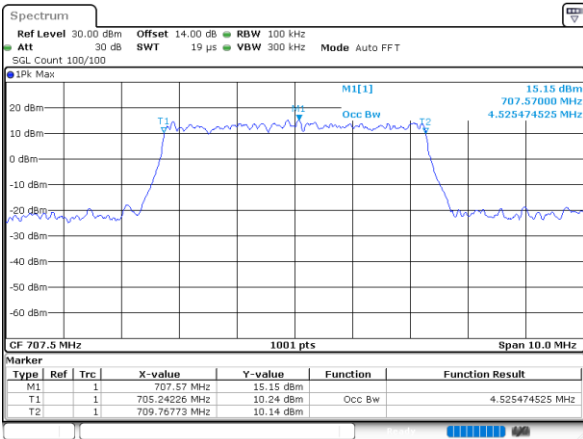
Occupied Bandwidth

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	1.10	2.73	2.72	4.53	4.51	9.01	8.99



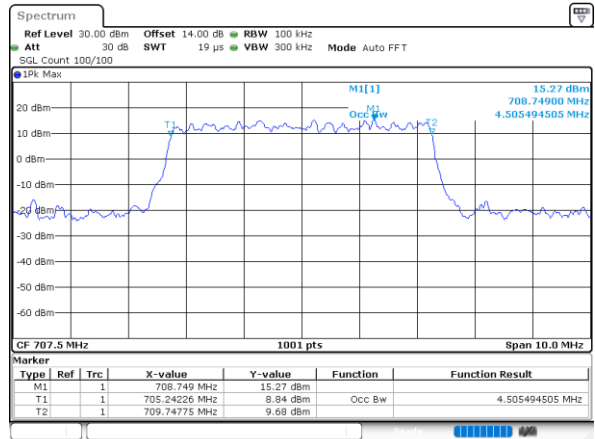


Middle Channel / 5MHz / QPSK



Date: 25, JAN, 2024 18:17:56

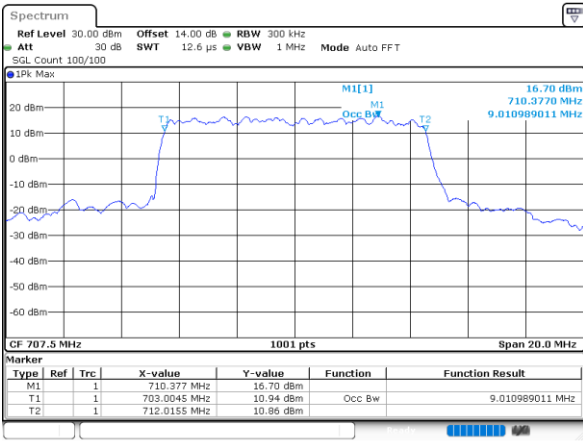
Middle Channel / 5MHz / 16QAM



Date: 25, JAN, 2024 18:18:38

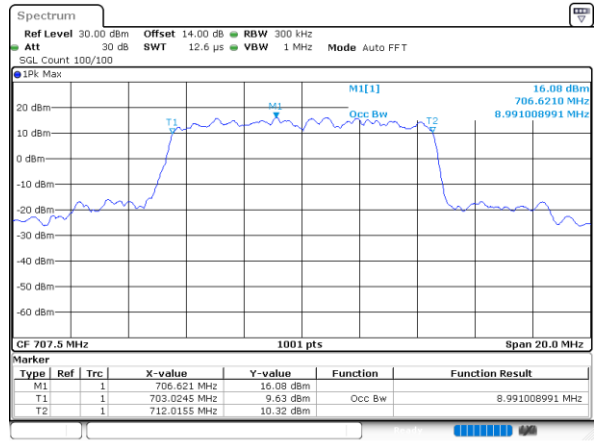
LTE Band 12

Middle Channel / 10MHz / QPSK



Date: 25, JAN, 2024 18:35:37

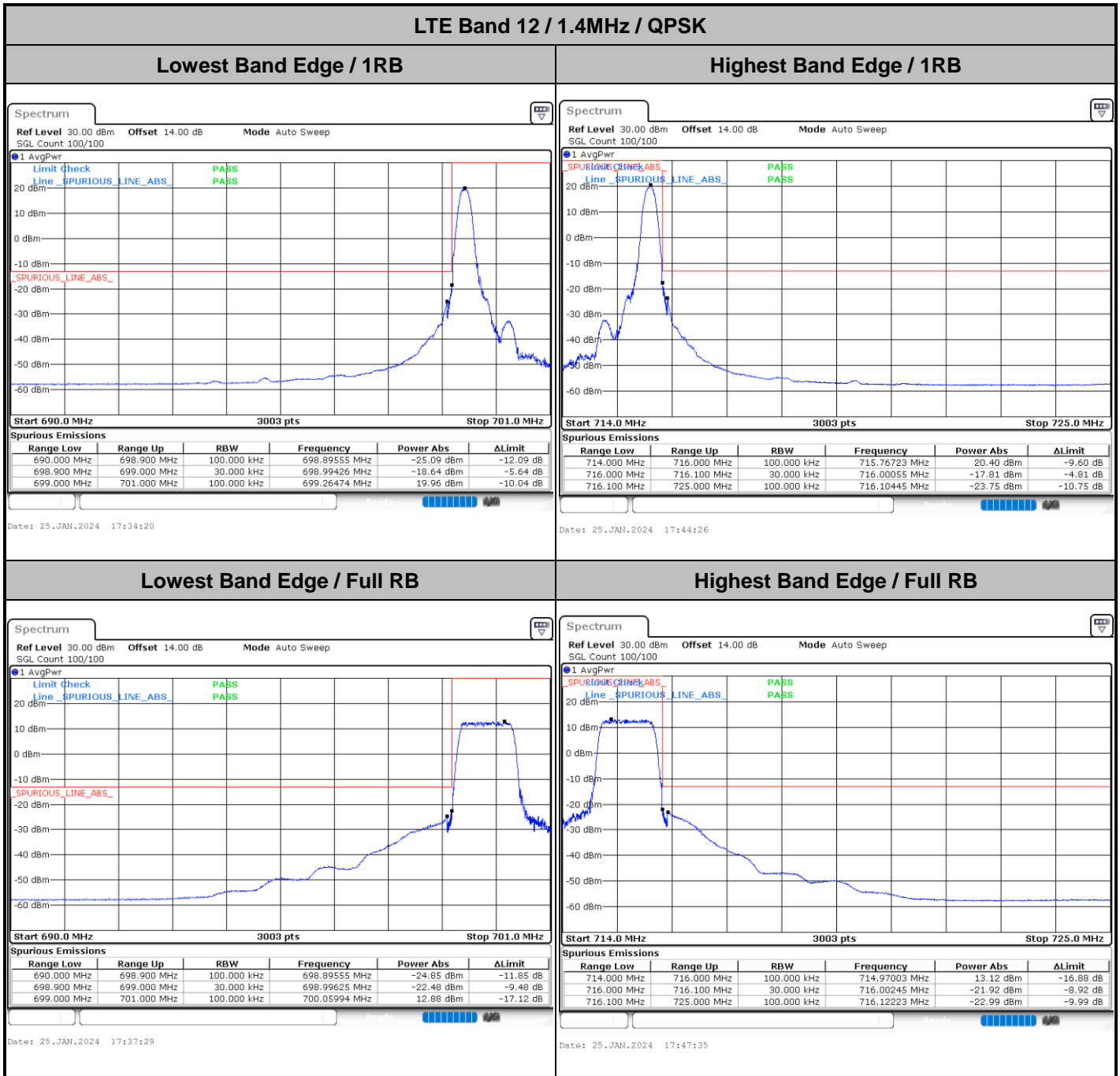
Middle Channel / 10MHz / 16QAM



Date: 25, JAN, 2024 18:36:18



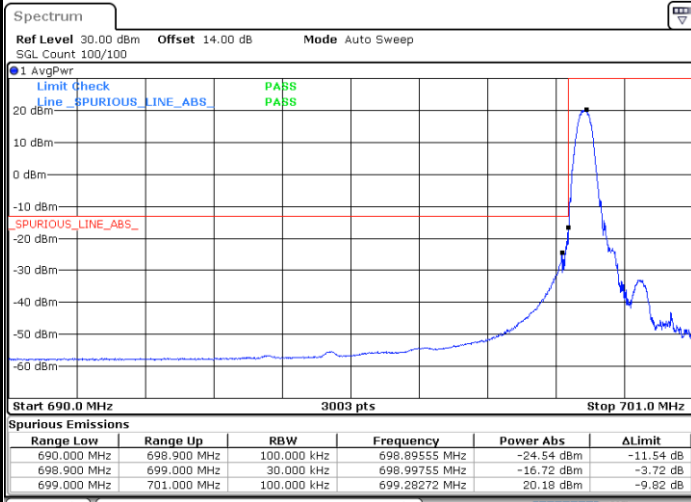
Conducted Band Edge





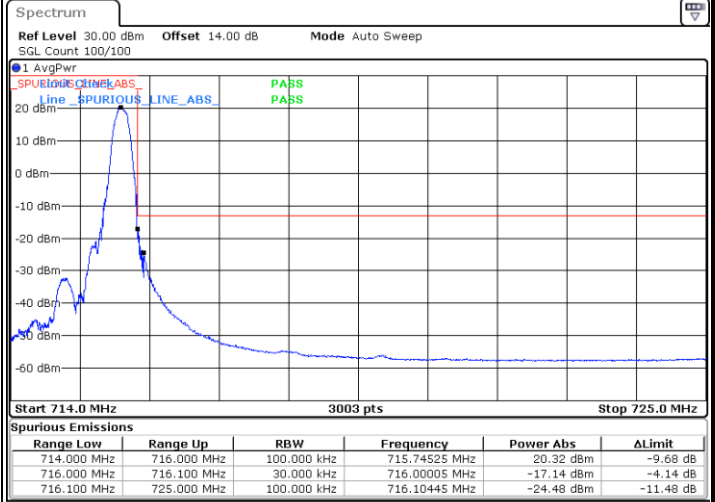
LTE Band 12 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



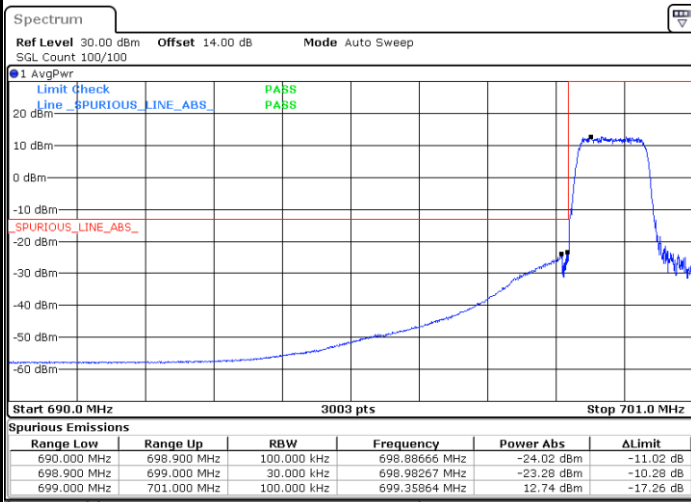
Date: 25.JAN.2024 17:35:23

Highest Band Edge / 1 RB



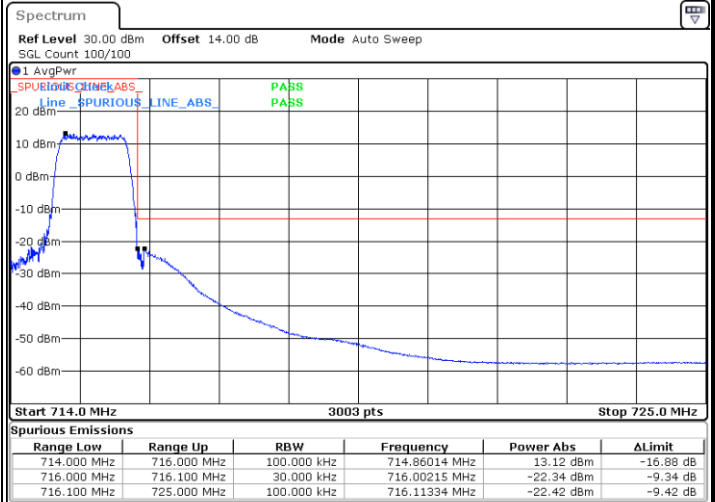
Date: 25.JAN.2024 17:45:29

Lowest Band Edge / Full RB



Date: 25.JAN.2024 17:38:32

Highest Band Edge / Full RB

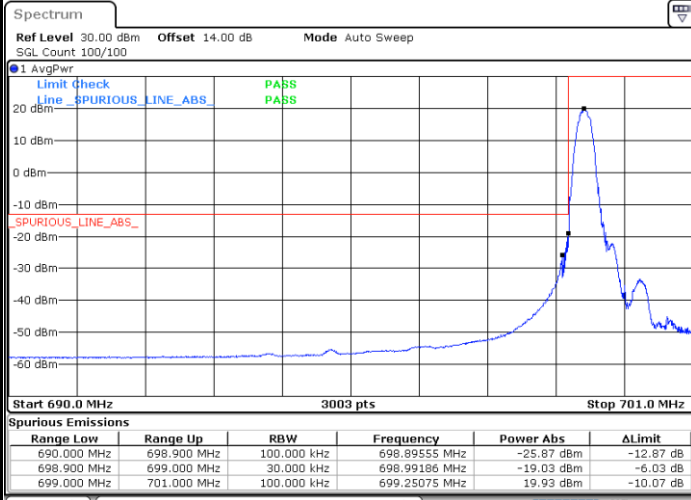


Date: 25.JAN.2024 17:48:38



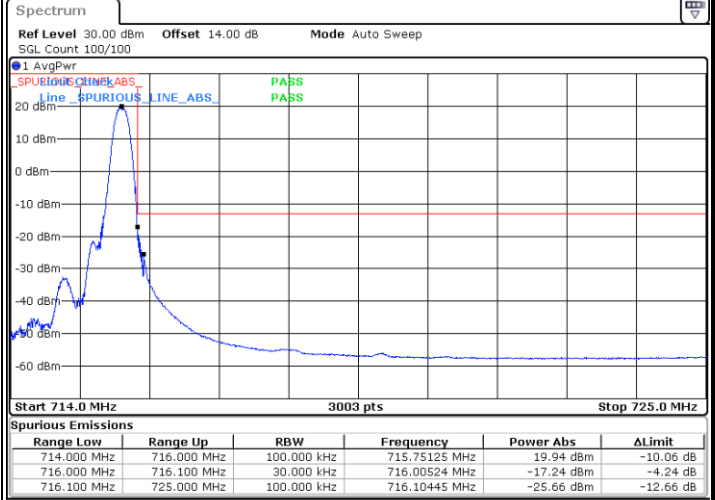
LTE Band 12 / 1.4MHz / 64QAM

Lowest Band Edge / 1 RB



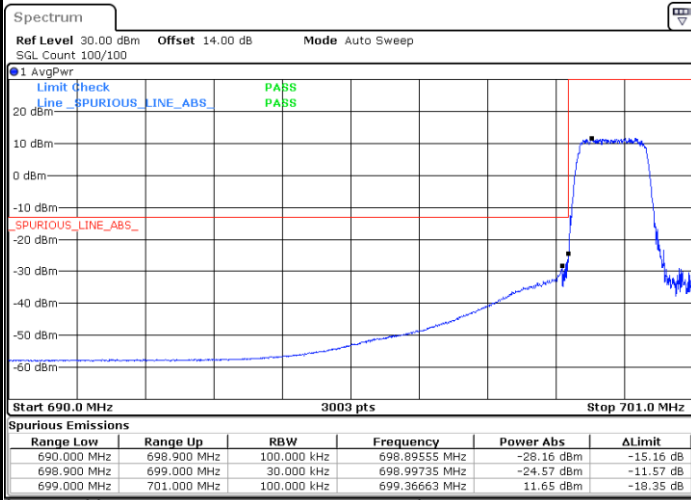
Date: 25.JAN.2024 17:36:26

Highest Band Edge / 1 RB



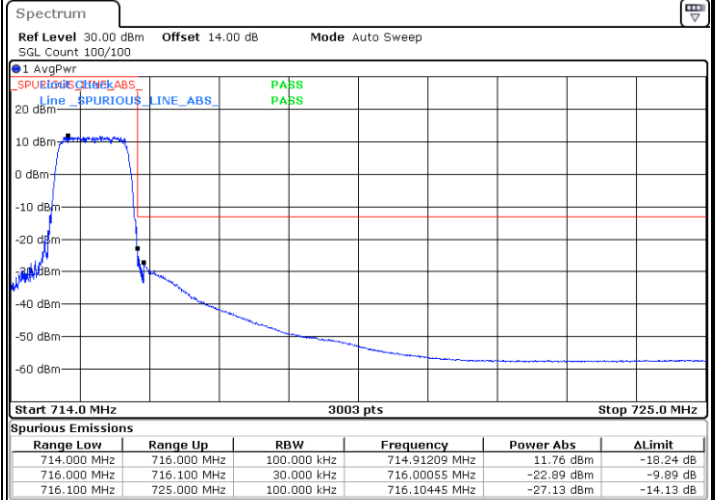
Date: 25.JAN.2024 17:46:32

Lowest Band Edge / Full RB



Date: 25.JAN.2024 17:39:35

Highest Band Edge / Full RB

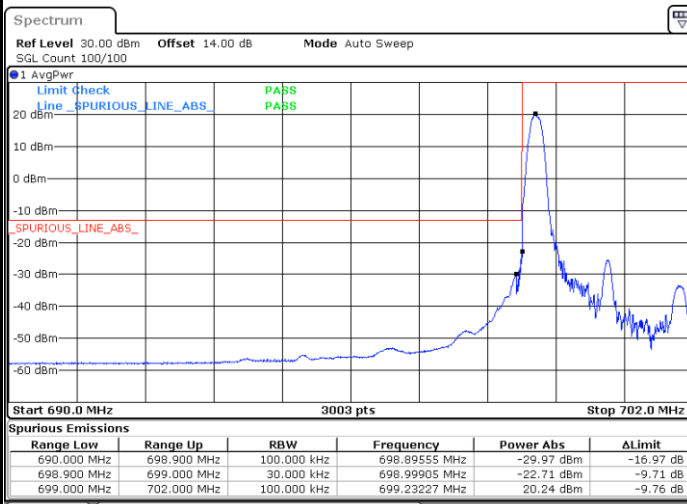


Date: 25.JAN.2024 17:49:41



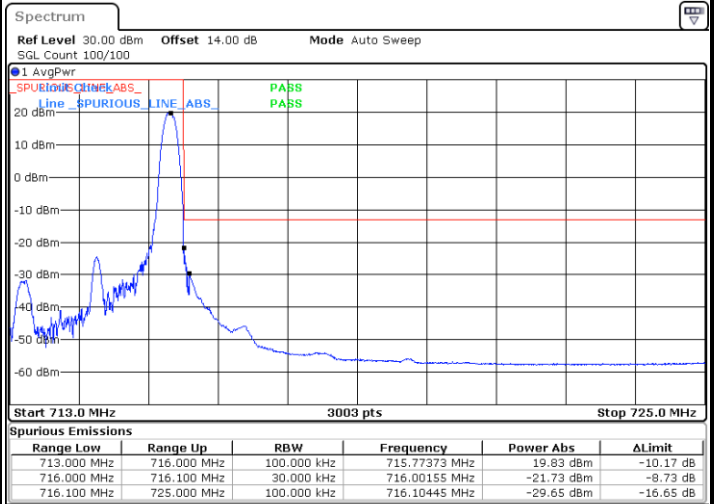
LTE Band 12 / 3MHz / QPSK

Lowest Band Edge / 1RB



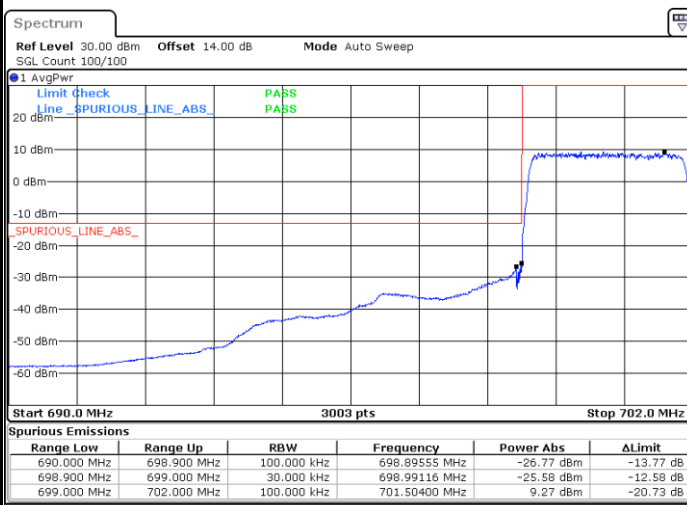
Date: 25.JAN.2024 17:52:01

Highest Band Edge / 1RB



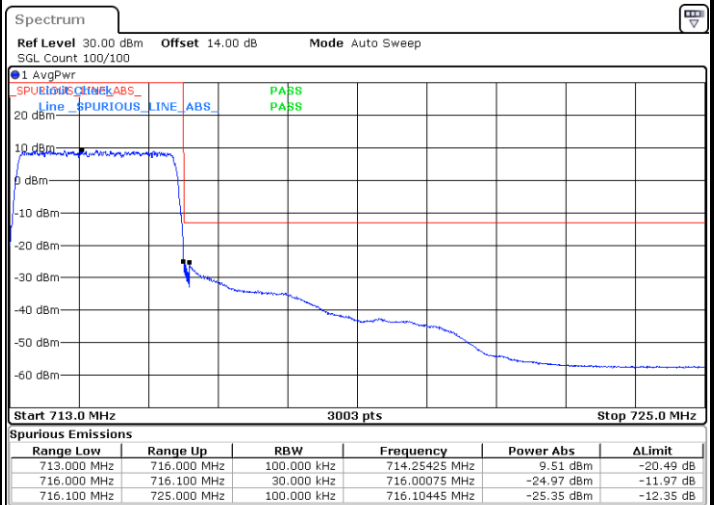
Date: 25.JAN.2024 18:02:10

Lowest Band Edge / Full RB



Date: 25.JAN.2024 17:55:11

Highest Band Edge / Full RB

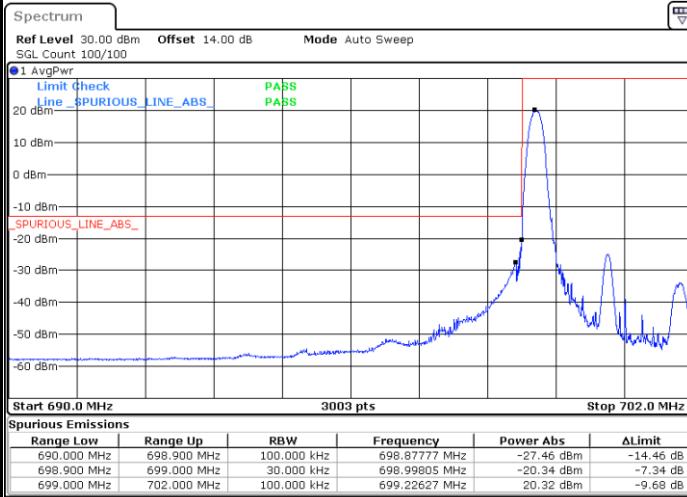


Date: 25.JAN.2024 18:05:19



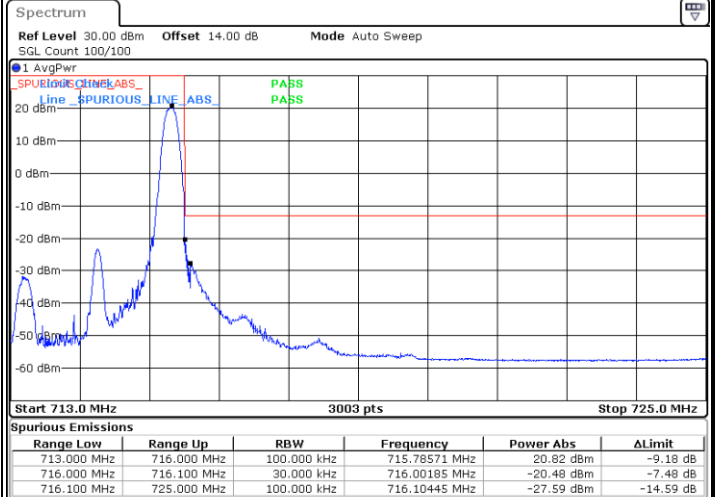
LTE Band 12 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



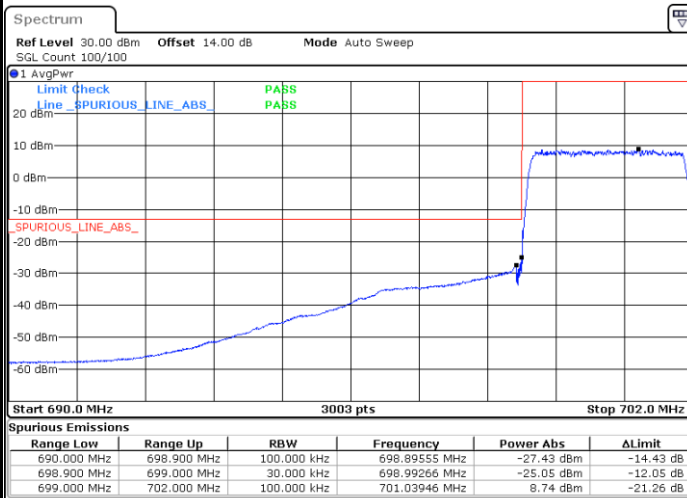
Date: 25.JAN.2024 17:53:04

Highest Band Edge / 1 RB



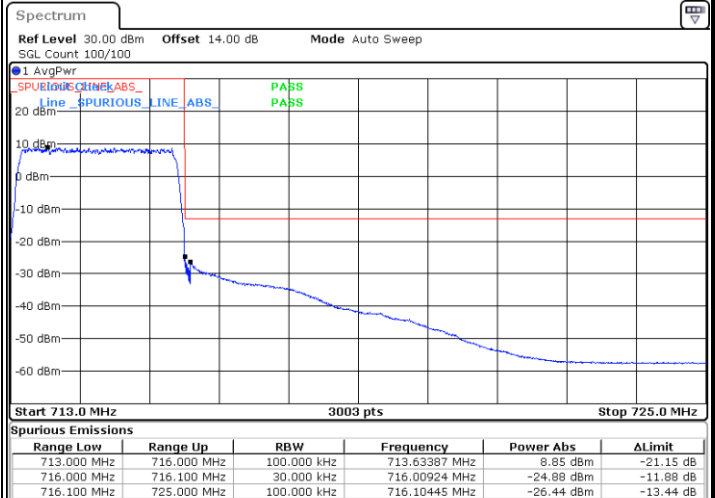
Date: 25.JAN.2024 18:03:13

Lowest Band Edge / Full RB



Date: 25.JAN.2024 17:56:14

Highest Band Edge / Full RB

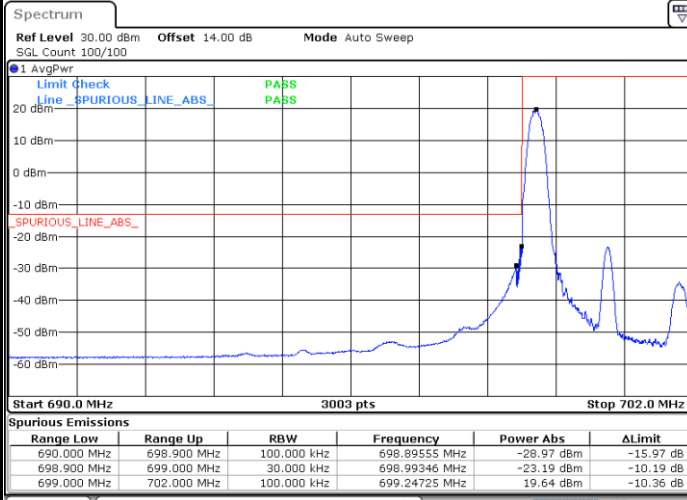


Date: 25.JAN.2024 18:06:22



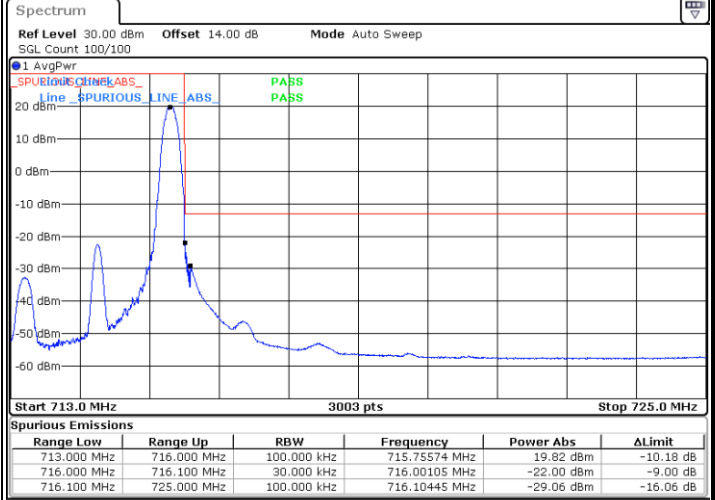
LTE Band 12 / 3MHz / 64QAM

Lowest Band Edge / 1 RB



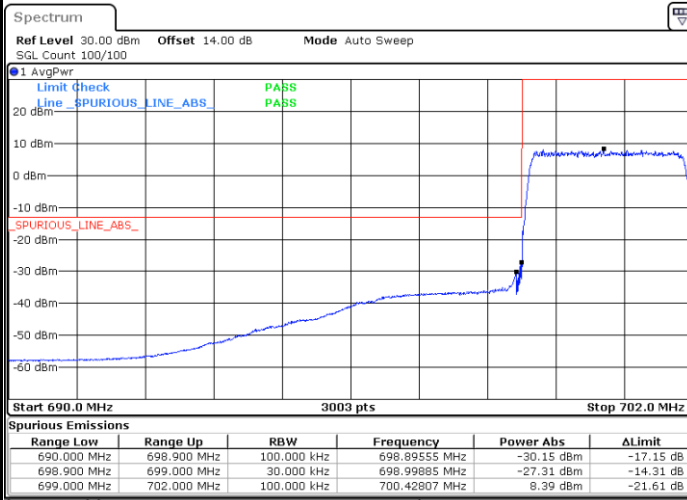
Date: 25.JAN.2024 17:54:07

Highest Band Edge / 1 RB



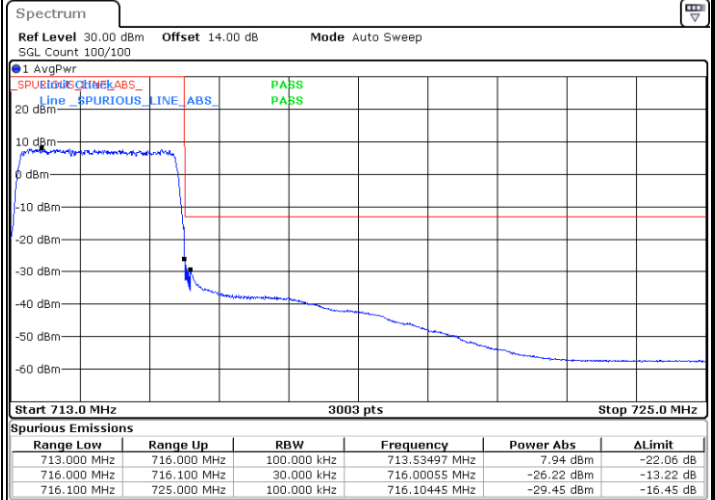
Date: 25.JAN.2024 18:04:16

Lowest Band Edge / Full RB



Date: 25.JAN.2024 17:57:17

Highest Band Edge / Full RB

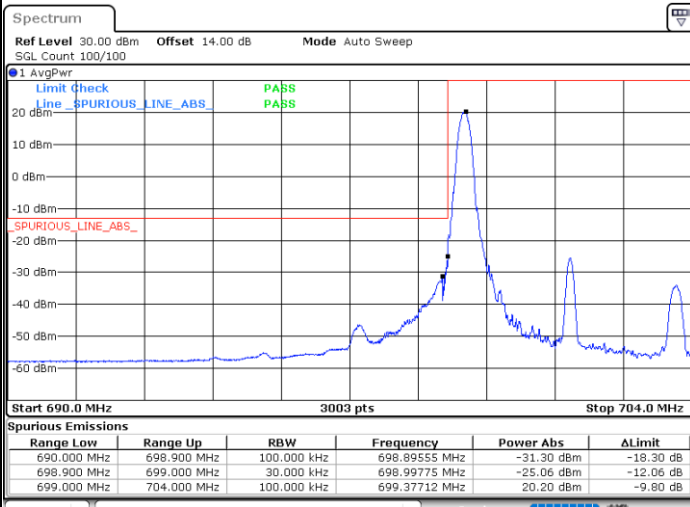


Date: 25.JAN.2024 18:07:25



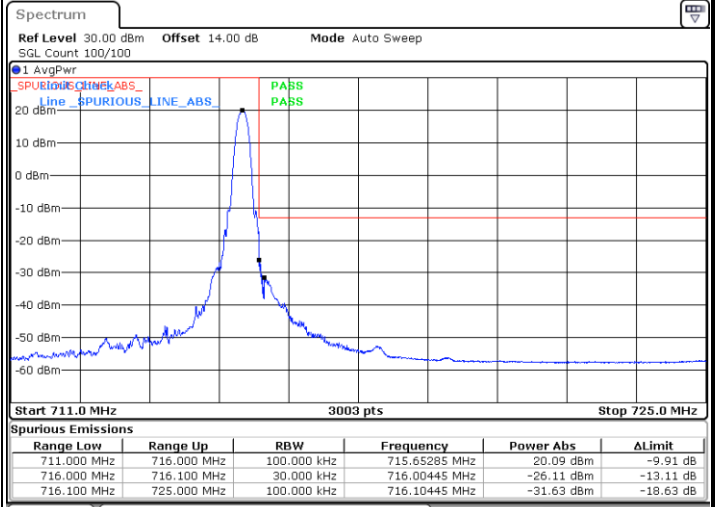
LTE Band 12 / 5MHz / QPSK

Lowest Band Edge / 1RB



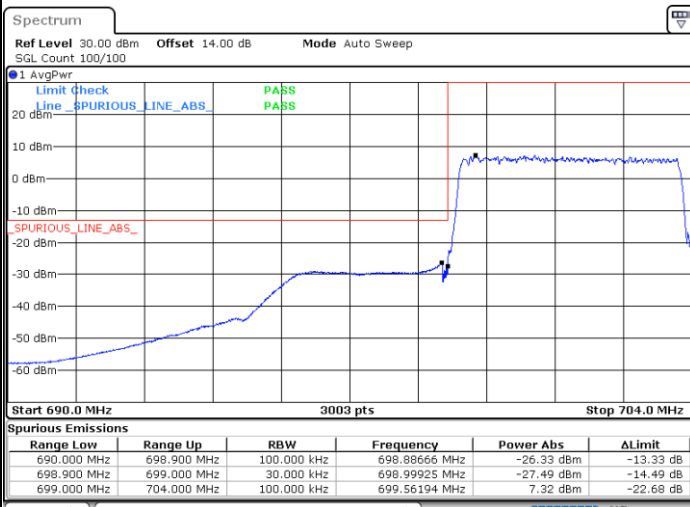
Date: 25.JAN.2024 18:09:45

Highest Band Edge / 1RB



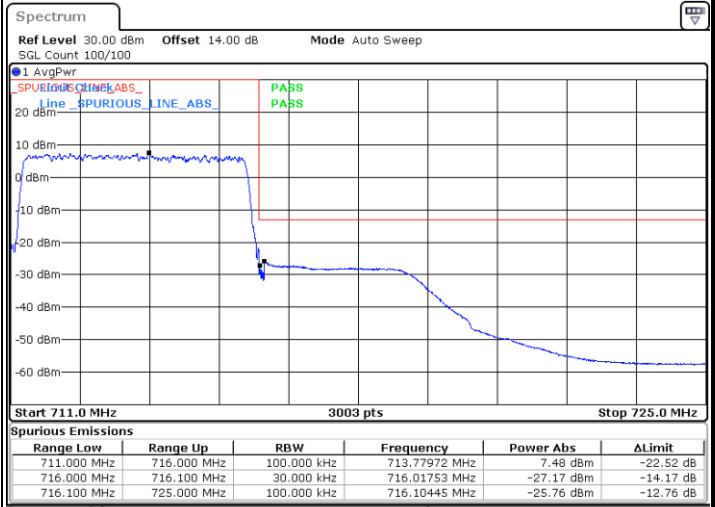
Date: 25.JAN.2024 18:19:53

Lowest Band Edge / Full RB



Date: 25.JAN.2024 18:12:57

Highest Band Edge / Full RB

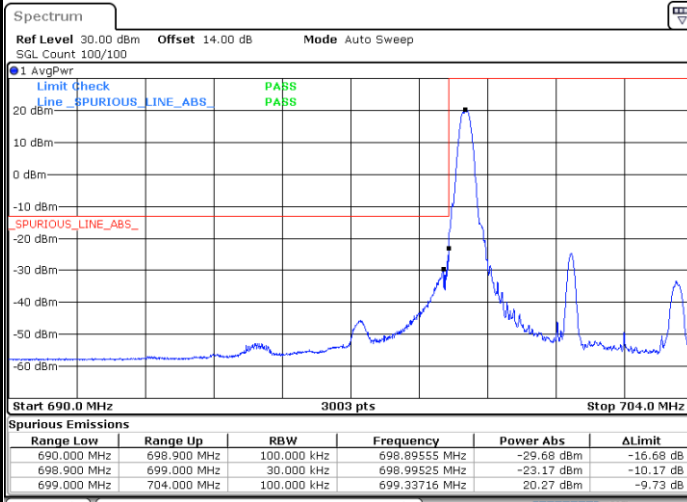


Date: 25.JAN.2024 18:23:02



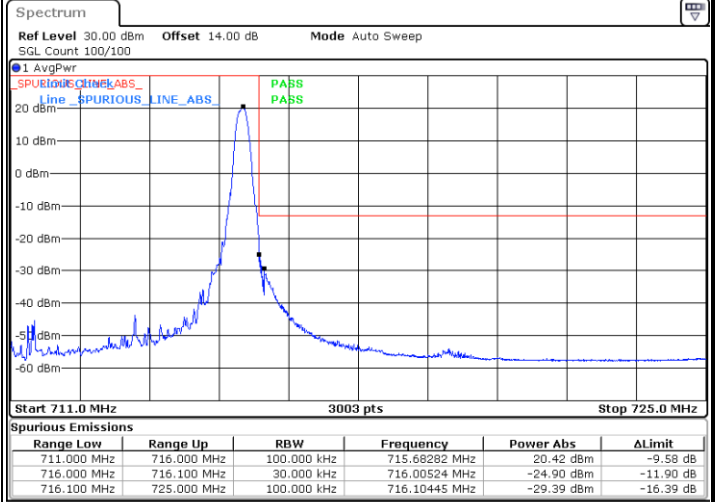
LTE Band 12 / 5MHz / 16QAM

Lowest Band Edge / 1 RB



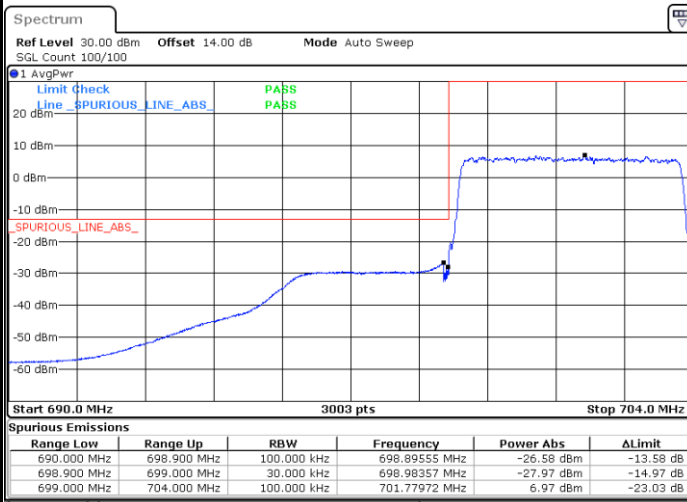
Date: 25.JAN.2024 18:10:49

Highest Band Edge / 1 RB



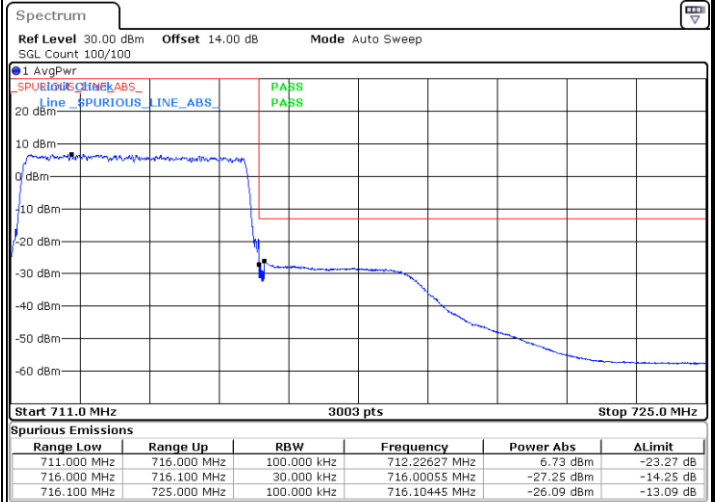
Date: 25.JAN.2024 18:20:56

Lowest Band Edge / Full RB



Date: 25.JAN.2024 18:14:00

Highest Band Edge / Full RB

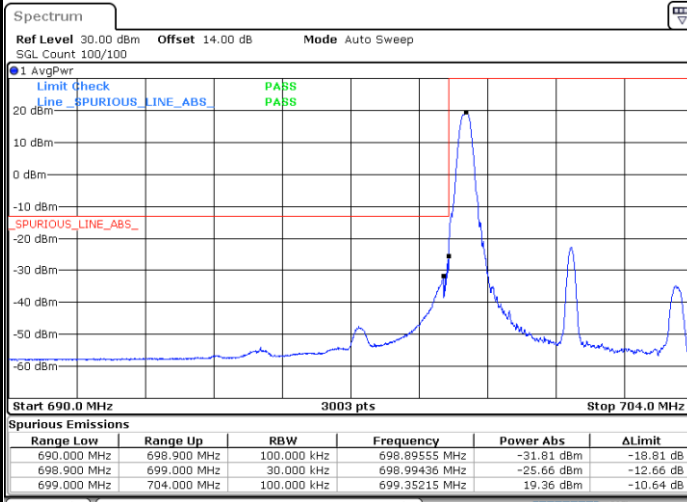


Date: 25.JAN.2024 18:24:05



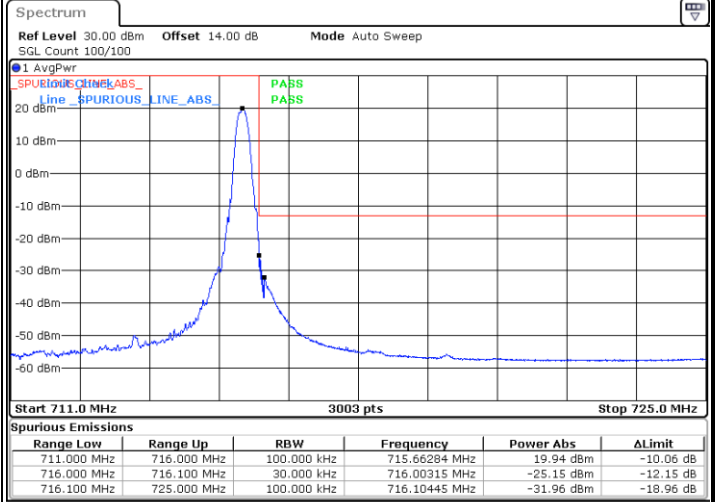
LTE Band 12 / 5MHz / 64QAM

Lowest Band Edge / 1 RB



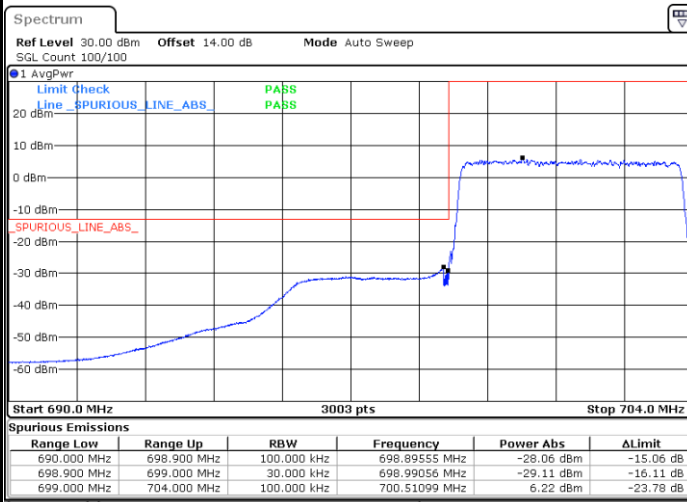
Date: 25.JAN.2024 18:11:52

Highest Band Edge / 1 RB



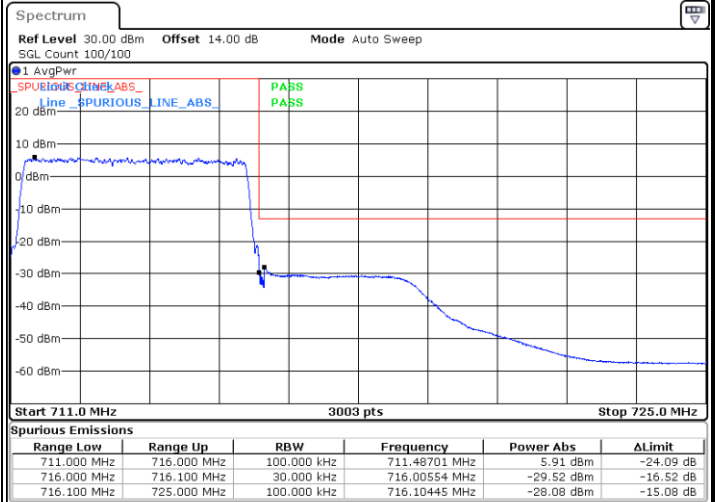
Date: 25.JAN.2024 18:21:59

Lowest Band Edge / Full RB



Date: 25.JAN.2024 18:15:03

Highest Band Edge / Full RB

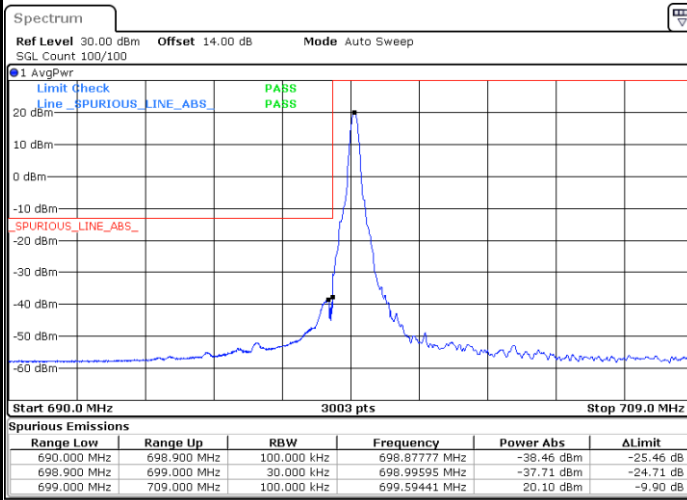


Date: 25.JAN.2024 18:25:08



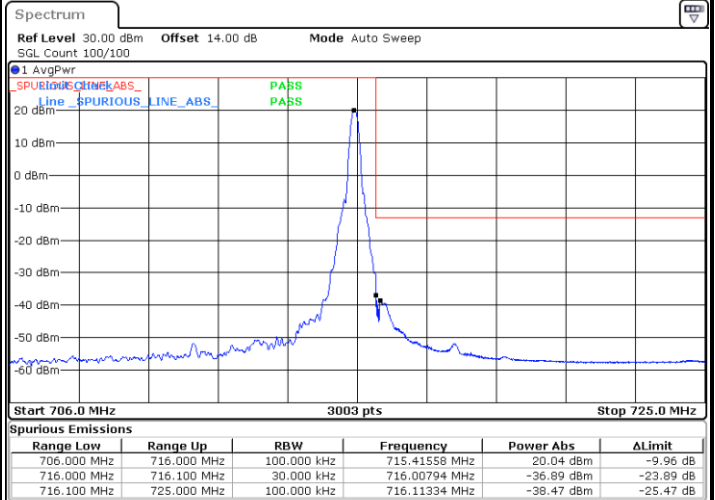
LTE Band 12 / 10MHz / QPSK

Lowest Band Edge / 1RB



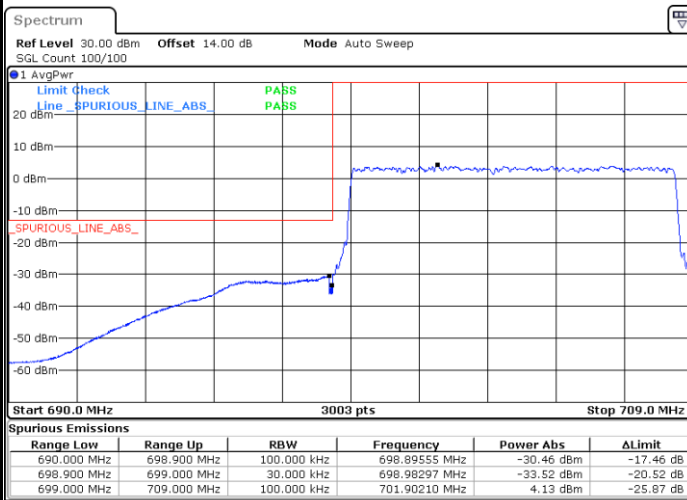
Date: 25.JAN.2024 18:27:29

Highest Band Edge / 1RB



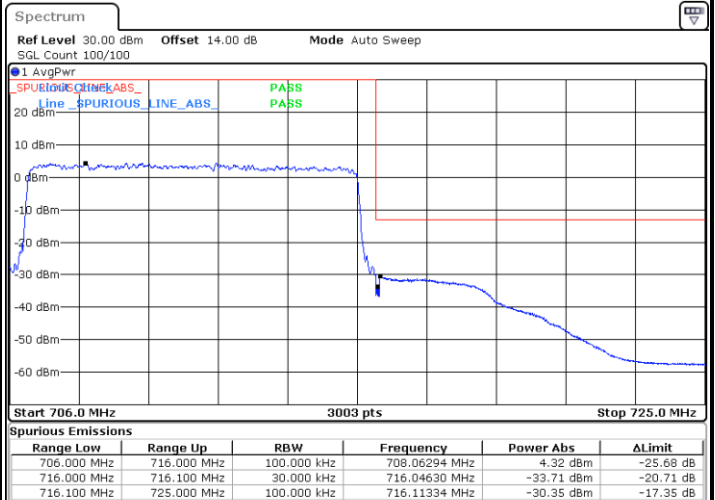
Date: 25.JAN.2024 18:37:34

Lowest Band Edge / Full RB



Date: 25.JAN.2024 18:30:38

Highest Band Edge / Full RB

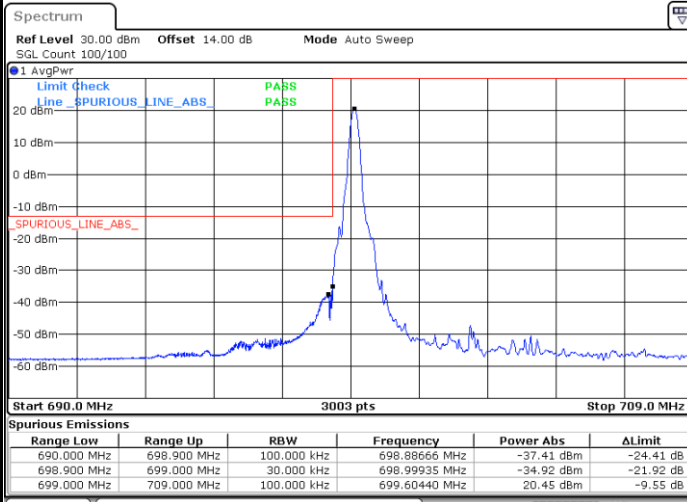


Date: 25.JAN.2024 18:40:43



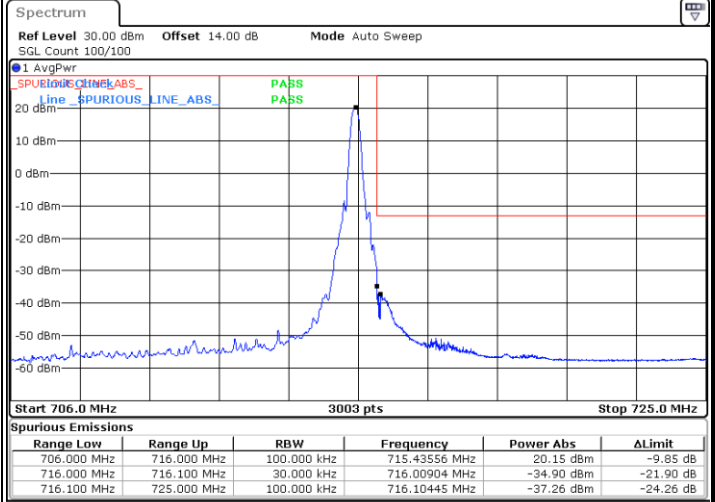
LTE Band 12 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



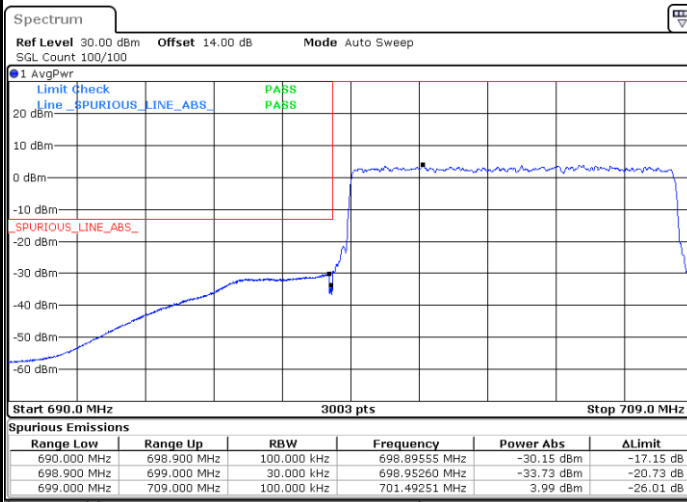
Date: 25.JAN.2024 18:28:32

Highest Band Edge / 1 RB



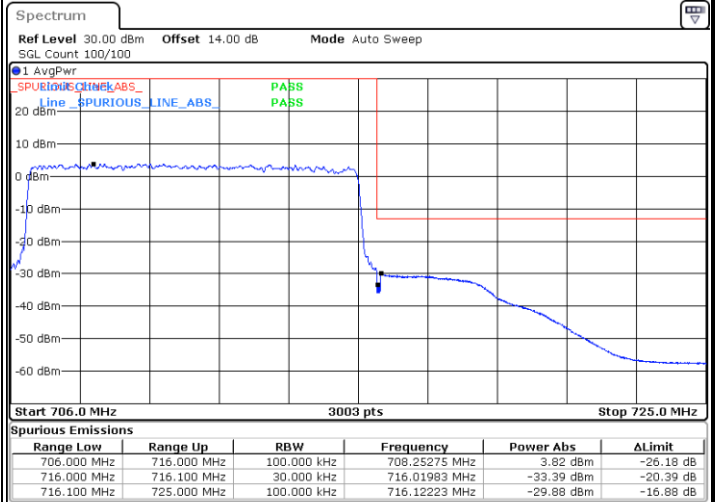
Date: 25.JAN.2024 18:38:37

Lowest Band Edge / Full RB



Date: 25.JAN.2024 18:31:41

Highest Band Edge / Full RB

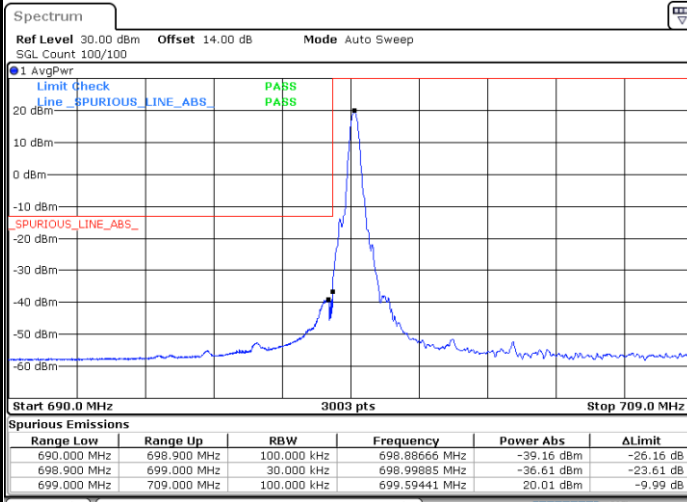


Date: 25.JAN.2024 18:41:46



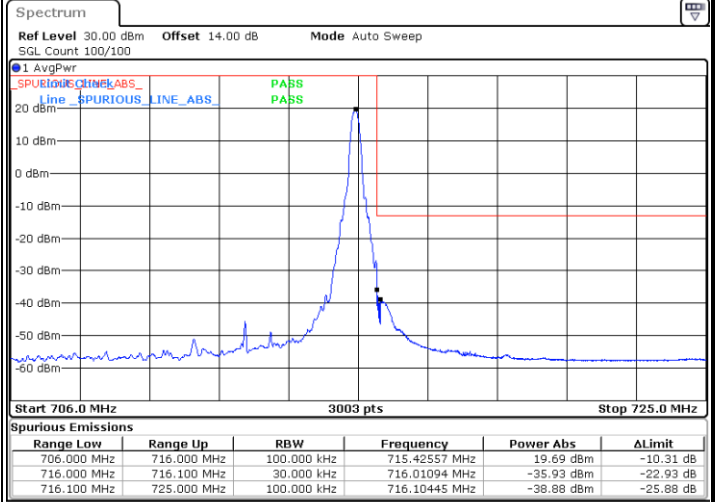
LTE Band 12 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



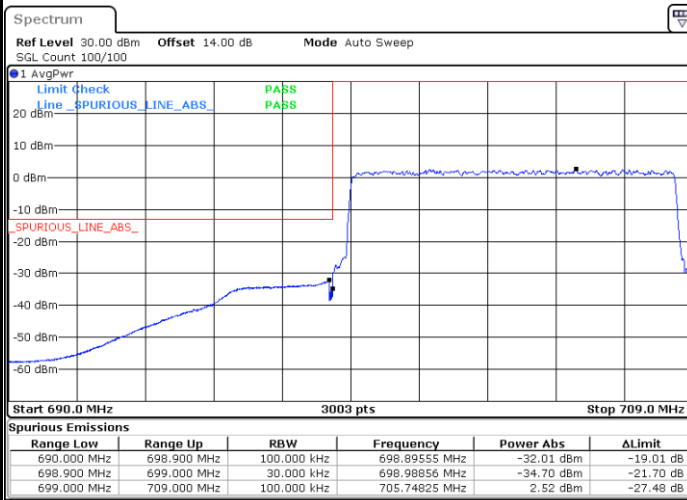
Date: 25.JAN.2024 18:29:35

Highest Band Edge / 1 RB



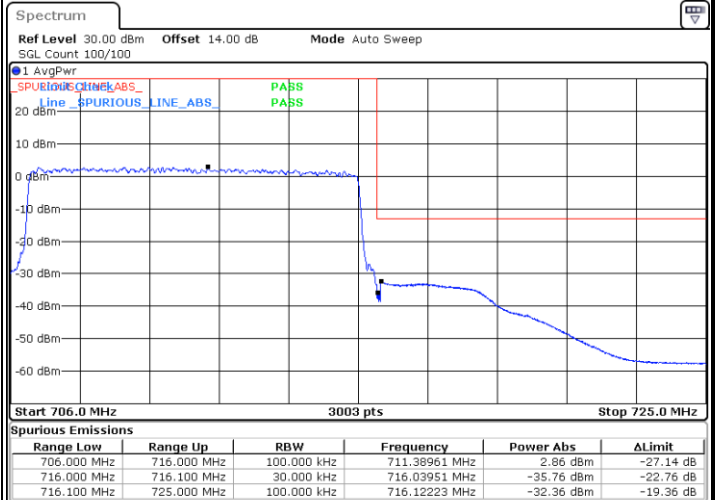
Date: 25.JAN.2024 18:39:40

Lowest Band Edge / Full RB



Date: 25.JAN.2024 18:32:44

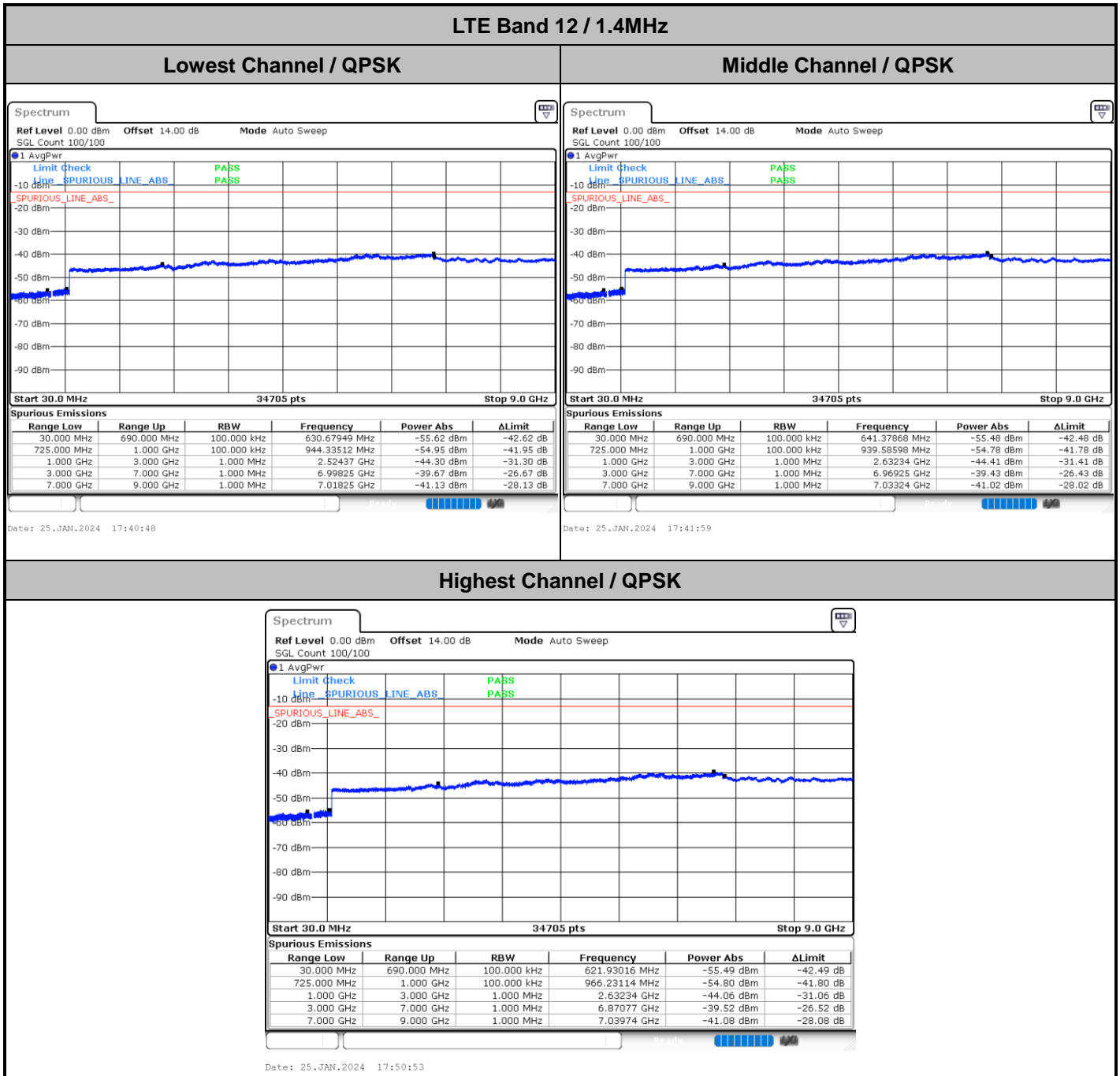
Highest Band Edge / Full RB



Date: 25.JAN.2024 18:42:49



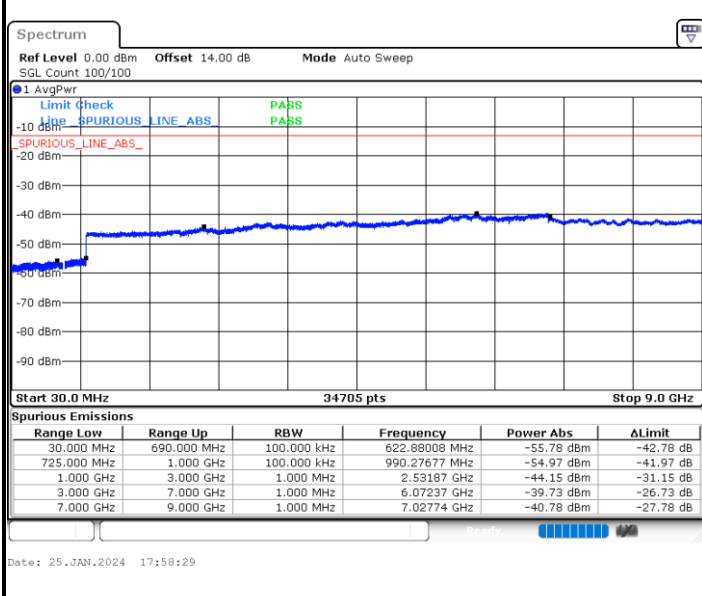
Conducted Spurious Emission



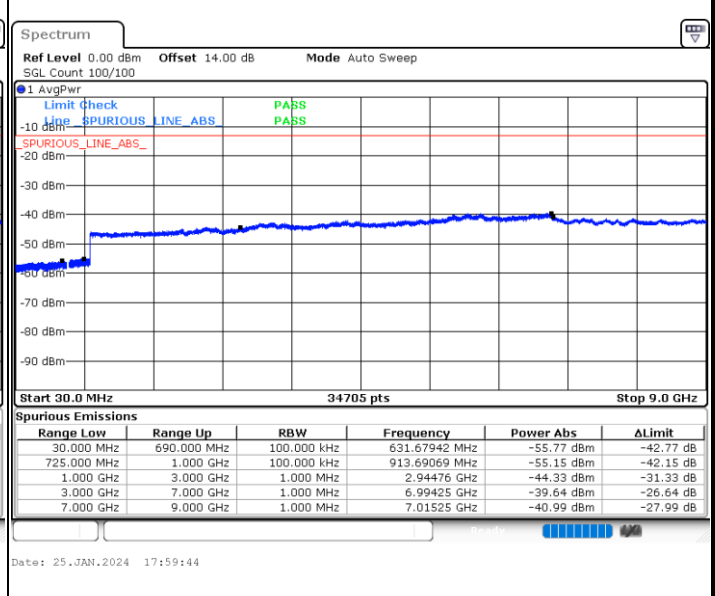


LTE Band 12 / 3MHz

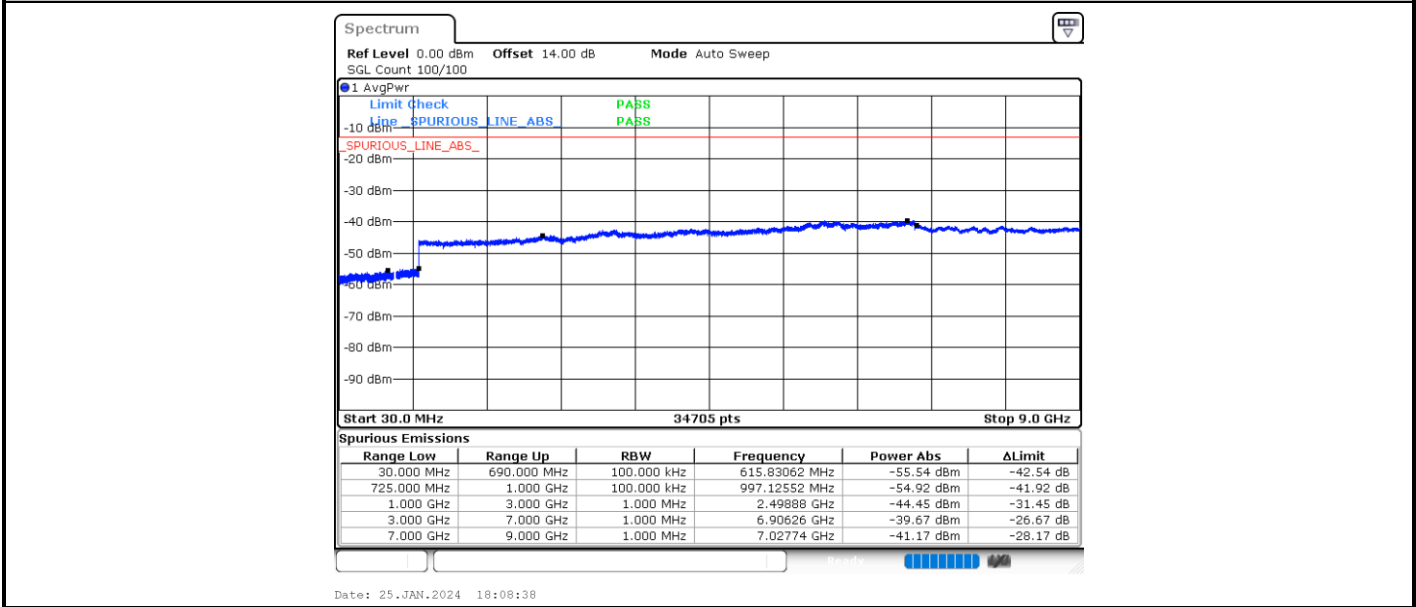
Lowest Channel / QPSK



Middle Channel / QPSK



Highest Channel / QPSK

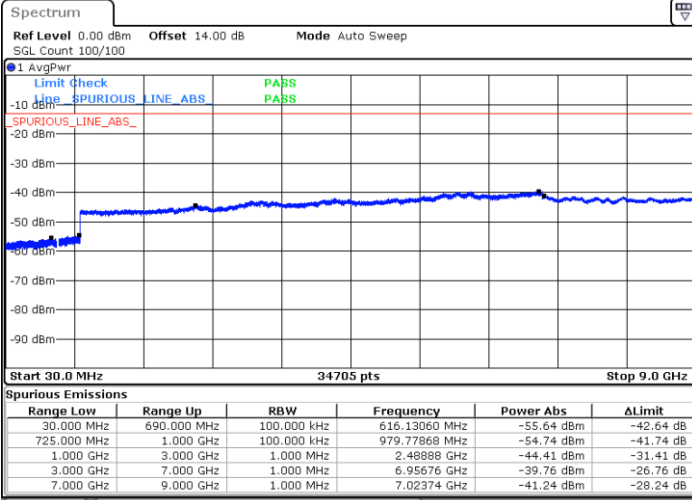




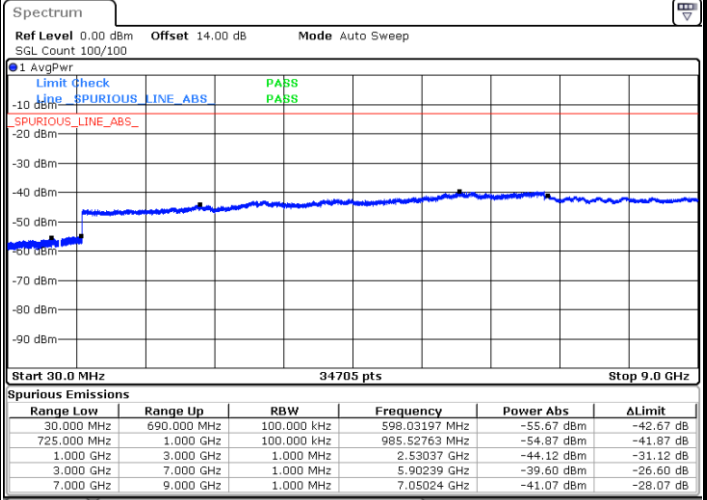
LTE Band 12 / 5MHz

Lowest Channel / QPSK

Middle Channel / QPSK

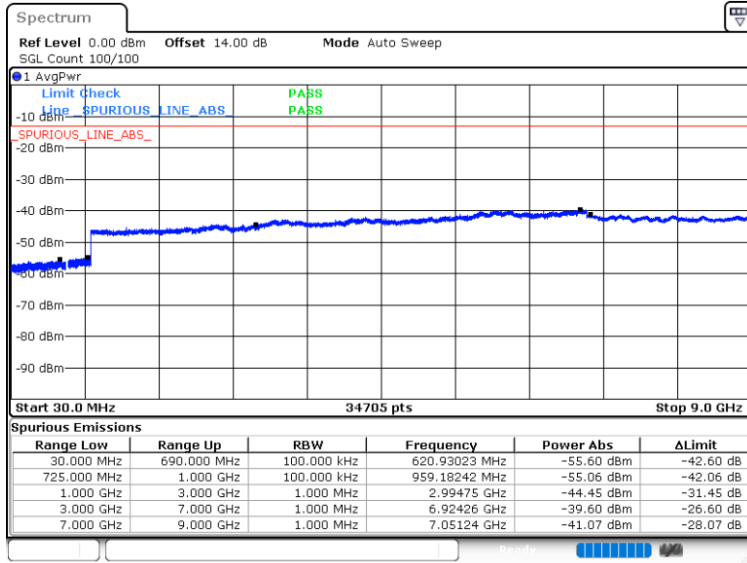


Date: 25.JAN.2024 18:16:16



Date: 25.JAN.2024 18:17:28

Highest Channel / QPSK

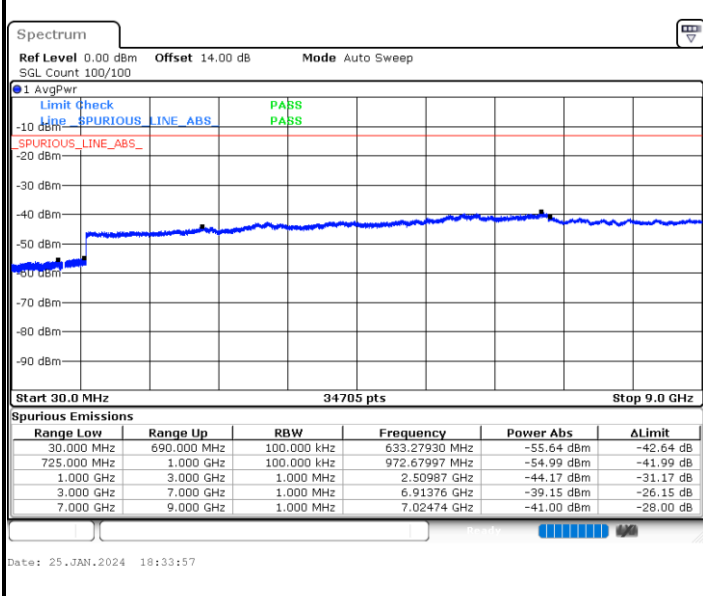


Date: 25.JAN.2024 18:26:21

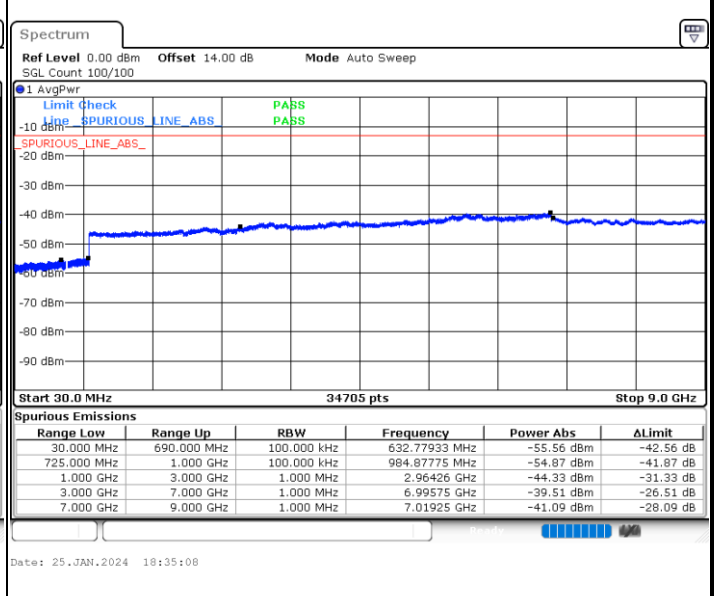


LTE Band 12 / 10MHz

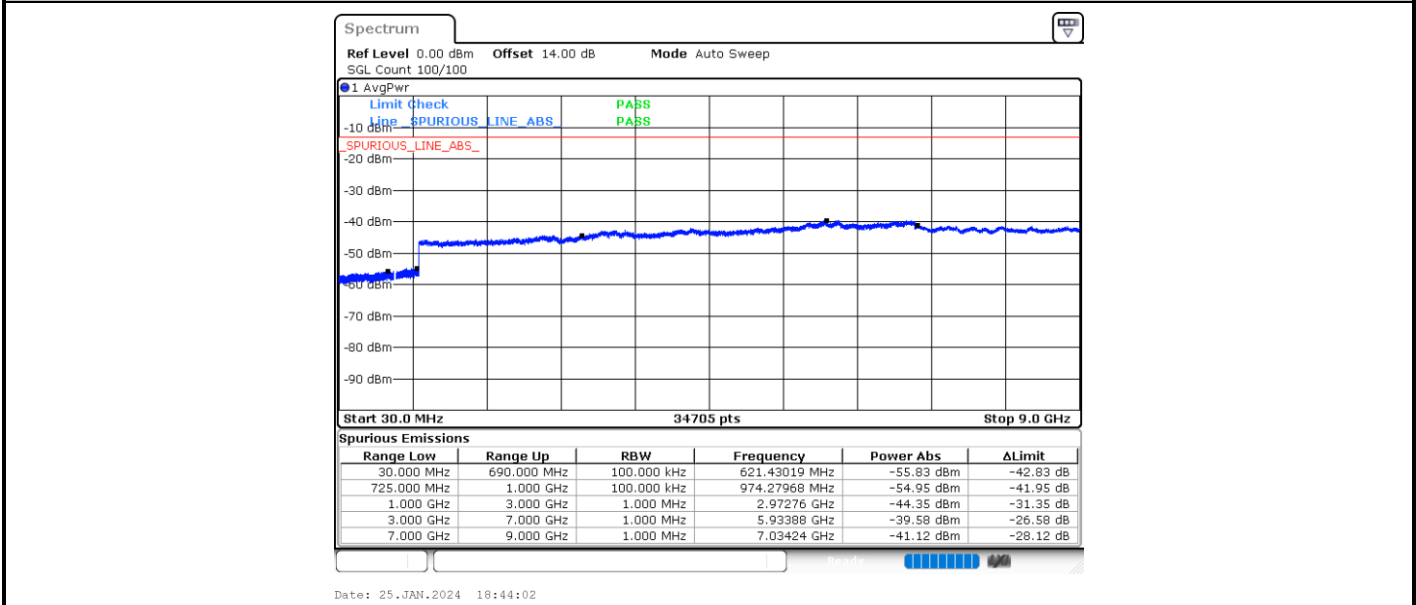
Lowest Channel / QPSK



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	0.0012	PASS
40	Normal Voltage	0.0023	
30	Normal Voltage	0.0015	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0005	
0	Normal Voltage	0.0004	
-10	Normal Voltage	0.0002	
-20	Normal Voltage	0.0004	
-30	Normal Voltage	0.0013	
20	Maximum Voltage	0.0001	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0002	

Note:

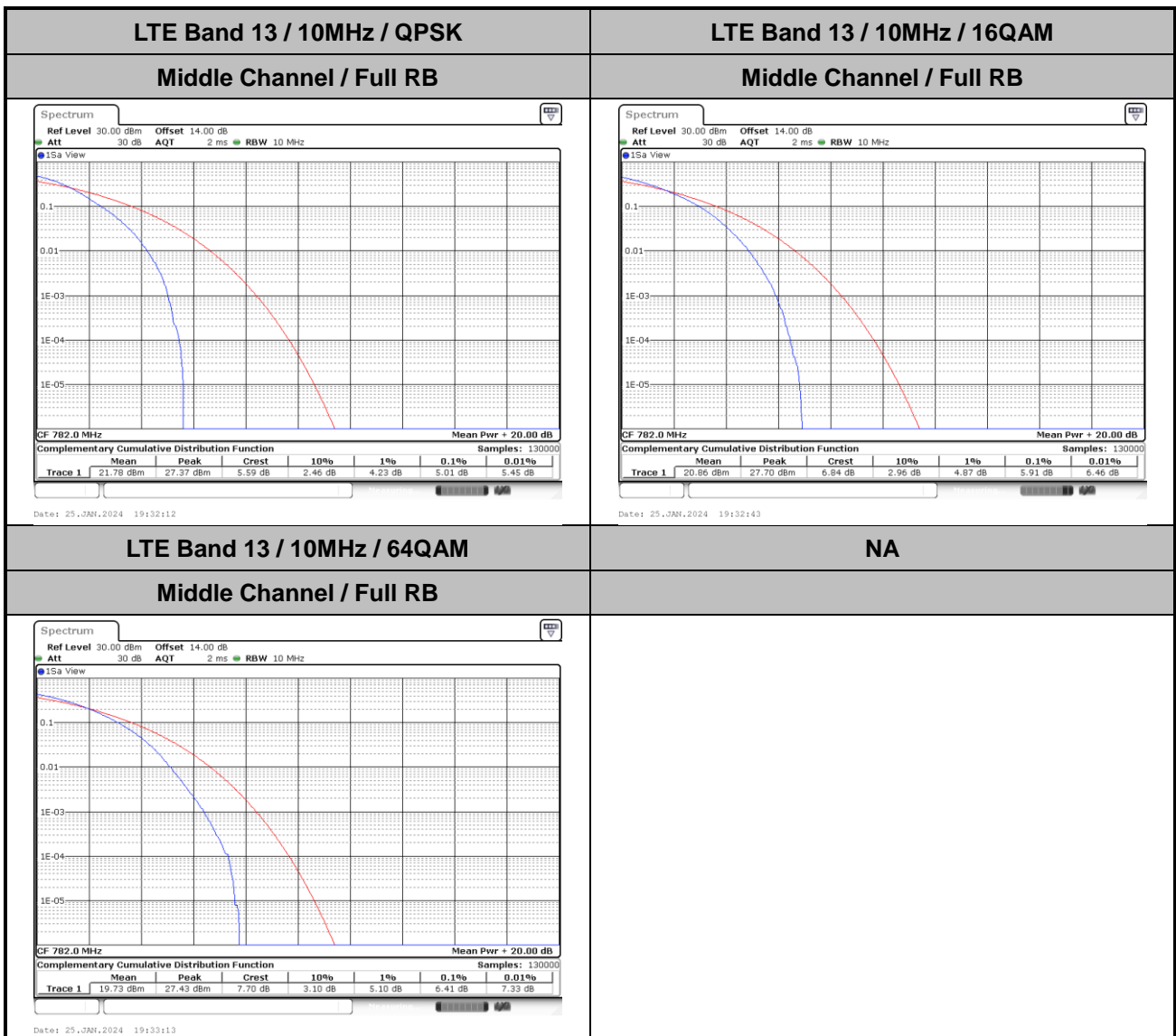
1. Normal Voltage = 3.91 V. ; Battery End Point (BEP) = 3.4 V. ; Maximum Voltage = 4.5 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 13

Peak-to-Average Ratio

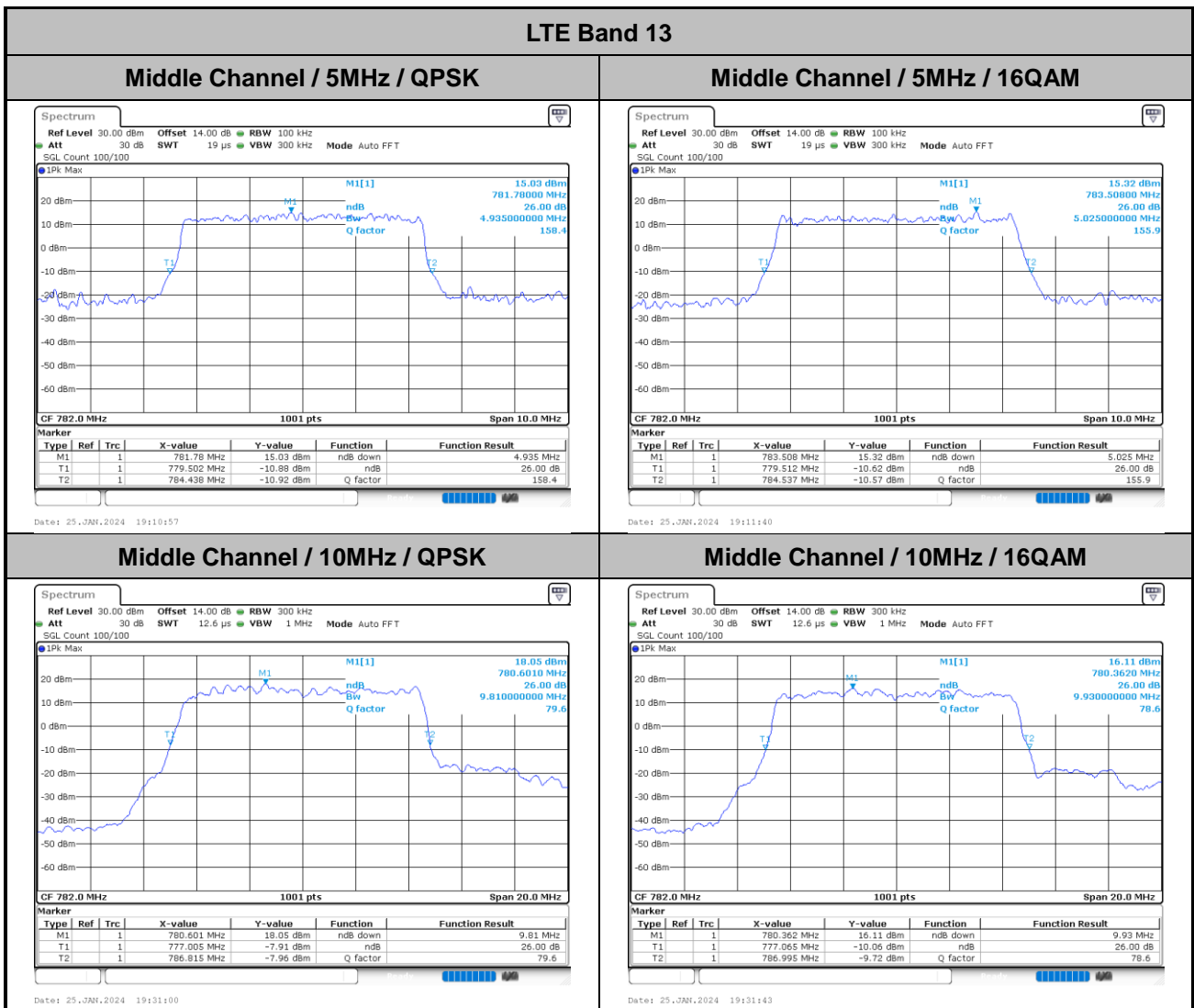
Mode	LTE Band 13 / 10MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	5.01	5.91	6.41	PASS





26dB Bandwidth

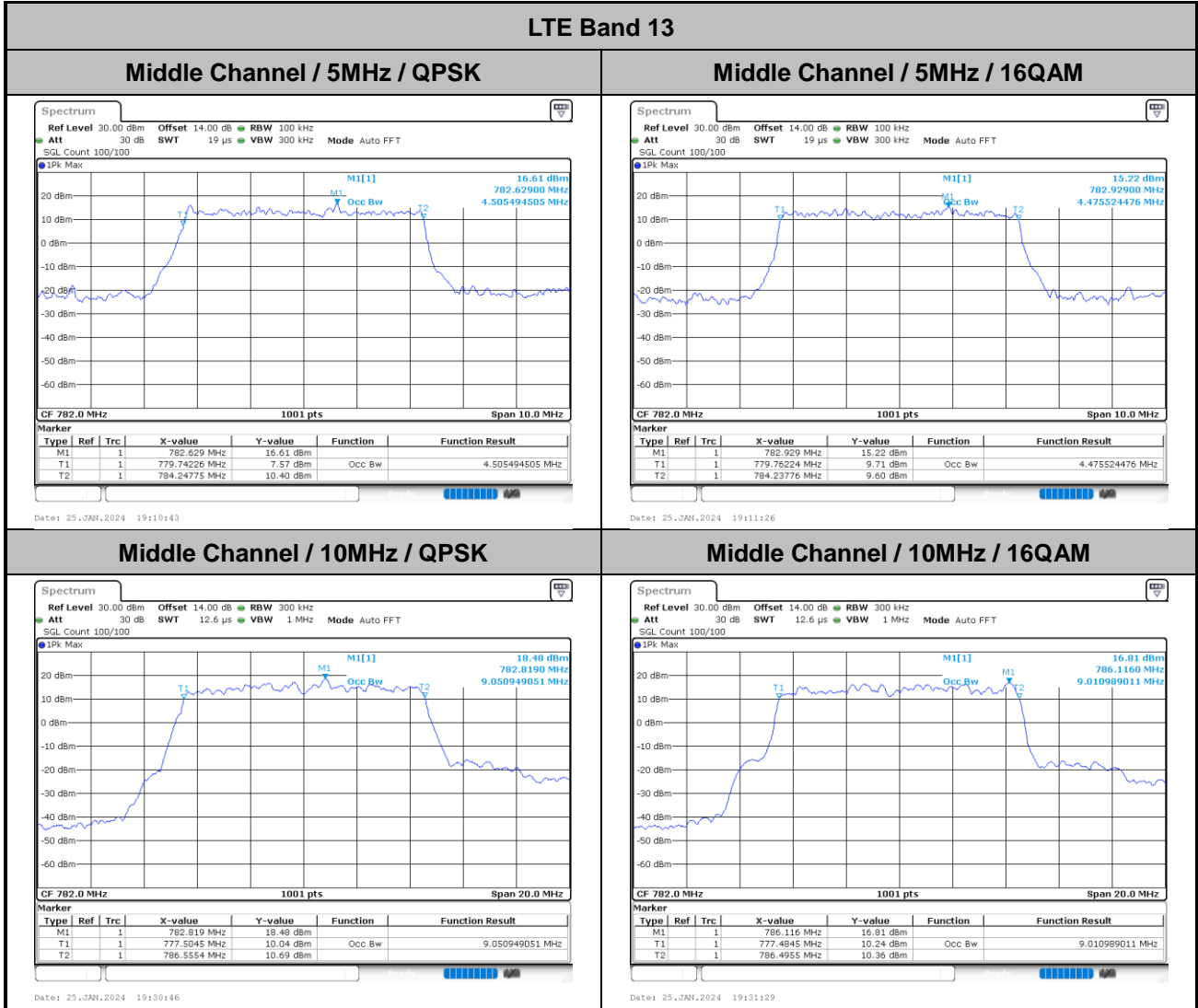
Mode	LTE Band 13 : 26dB BW(MHz)			
	5MHz		10MHz	
BW	5MHz		10MHz	
Mod.	QPSK	16QAM	QPSK	16QAM
Middle CH	4.94	5.03	9.81	9.93





Occupied Bandwidth

Mode	LTE Band 13 : 99%OBW(MHz)			
BW	5MHz		10MHz	
Mod.	QPSK	16QAM	QPSK	16QAM
Middle CH	4.51	4.48	9.05	9.01



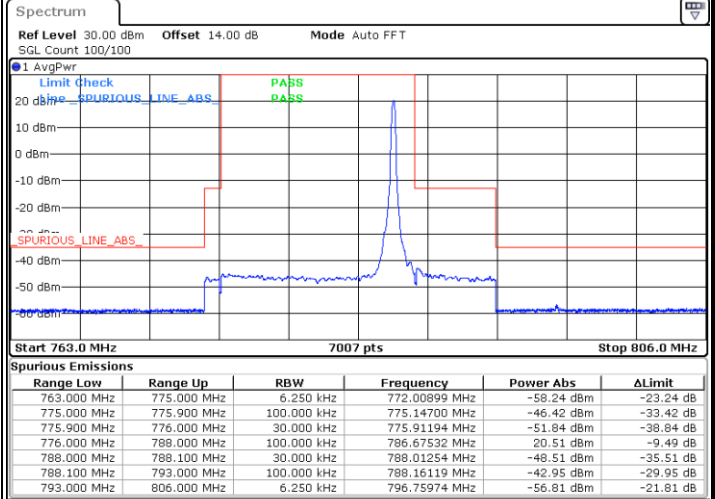
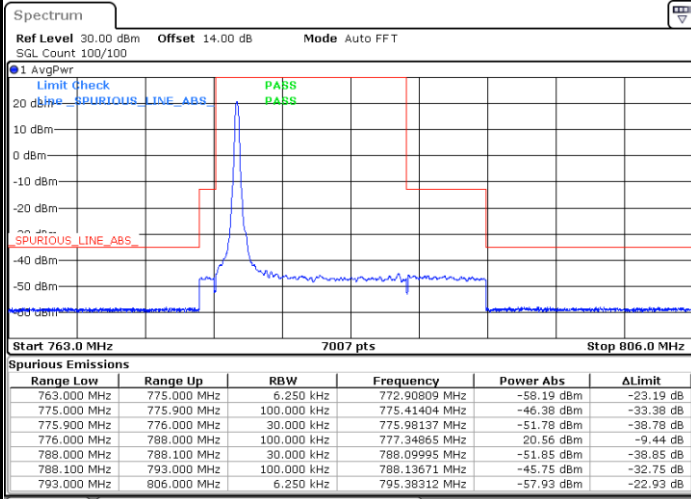


Conducted Band Edge

LTE Band 13 / 5MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

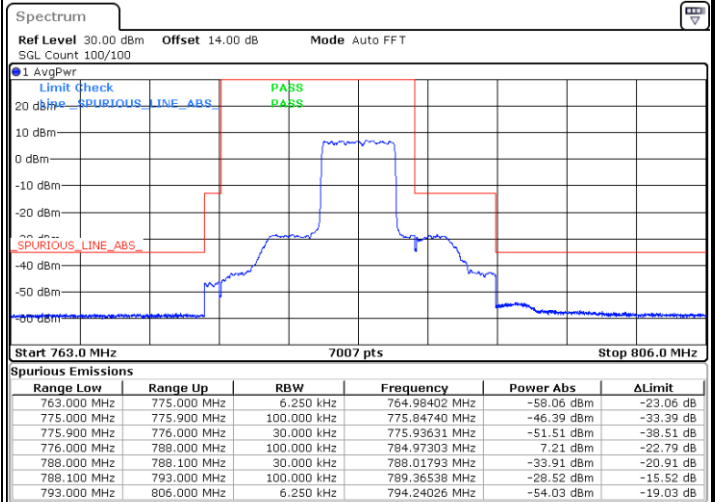
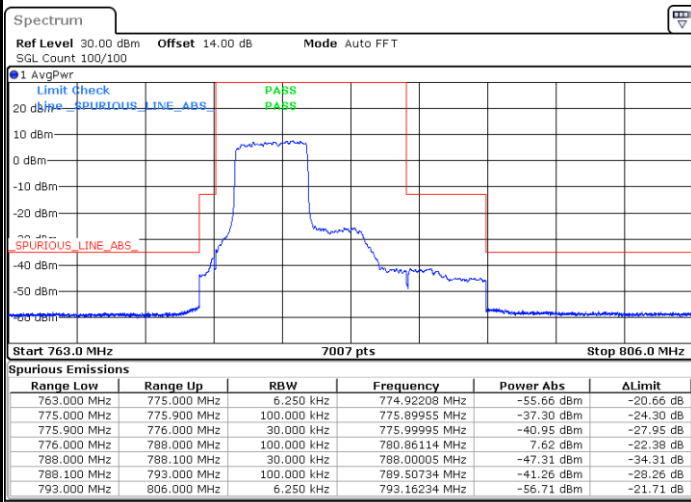


Date: 25.JAN.2024 19:02:24

Date: 25.JAN.2024 19:12:43

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 25.JAN.2024 19:05:36

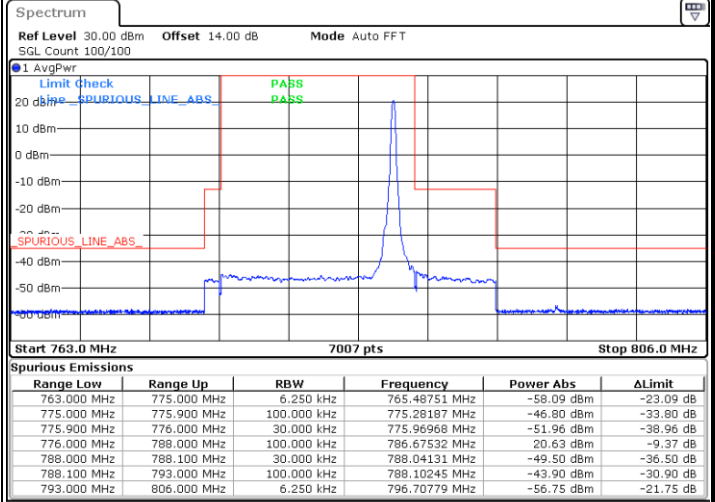
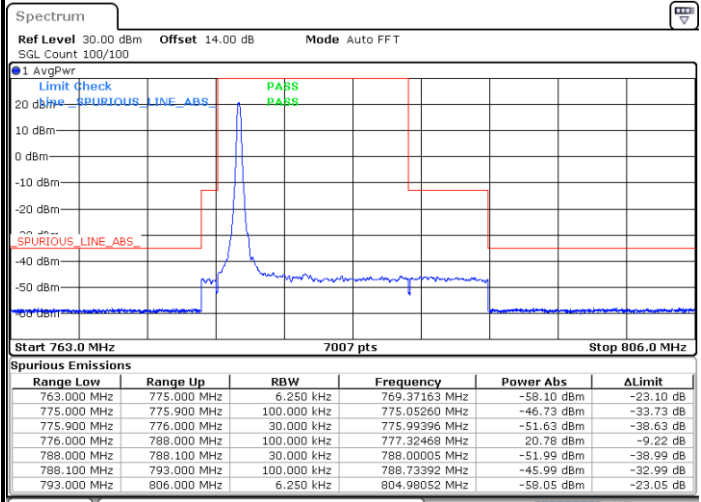
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LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

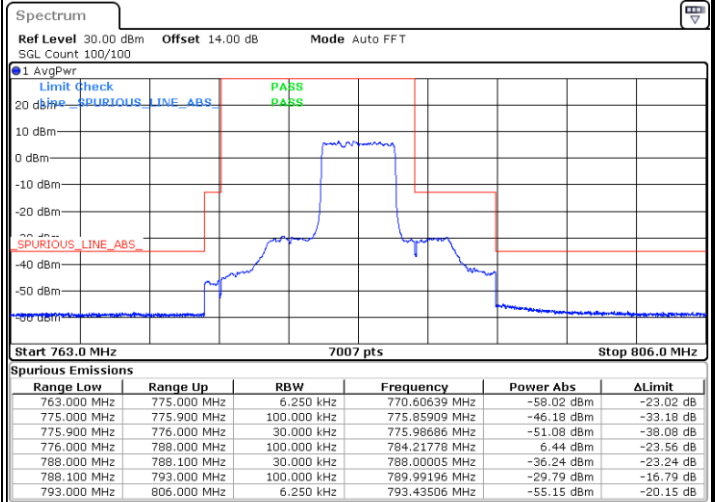
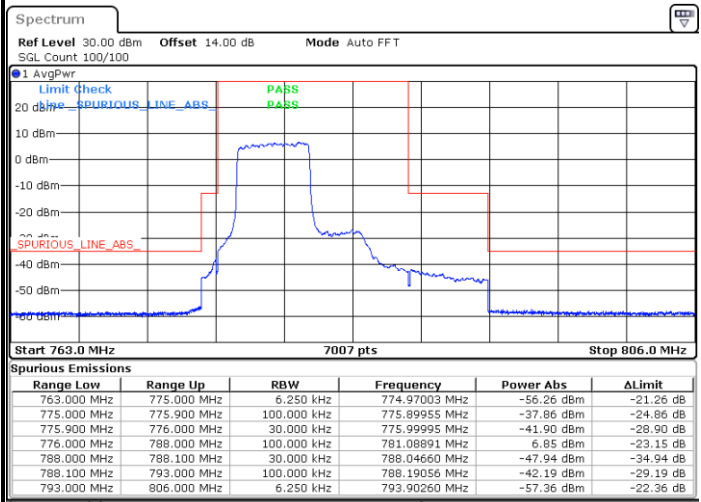


Date: 25.JAN.2024 19:03:28

Date: 25.JAN.2024 19:13:47

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 25.JAN.2024 19:06:40

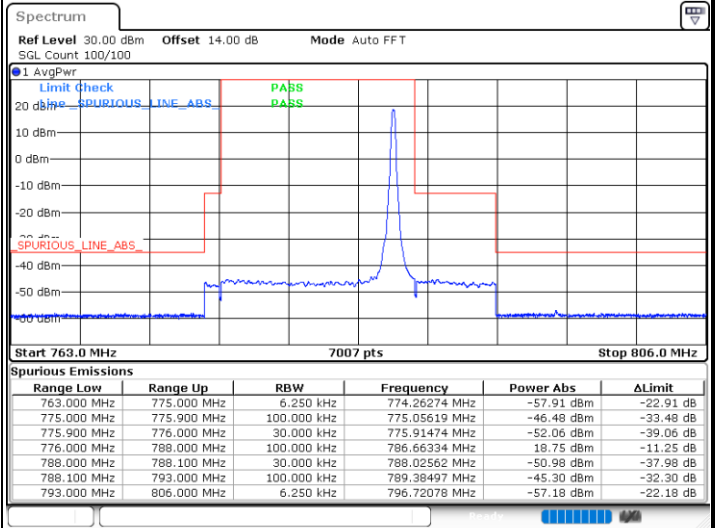
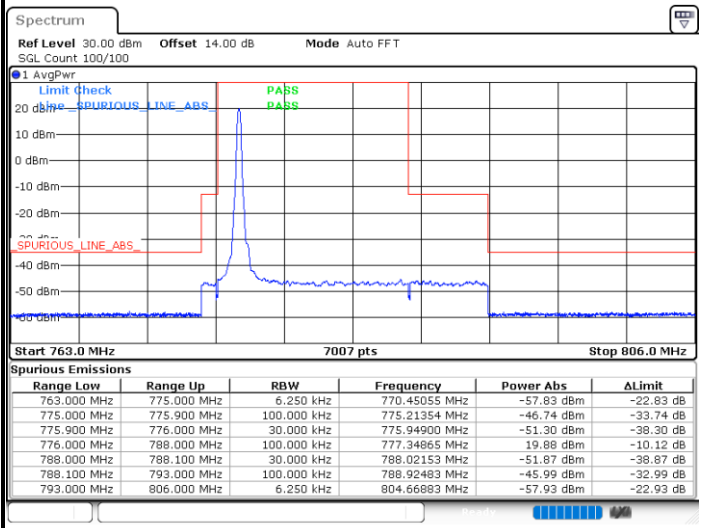
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LTE Band 13 / 5MHz / 64QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

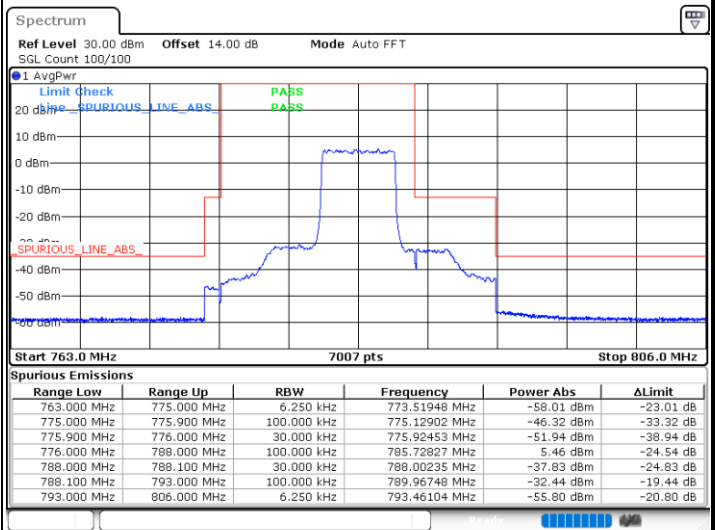
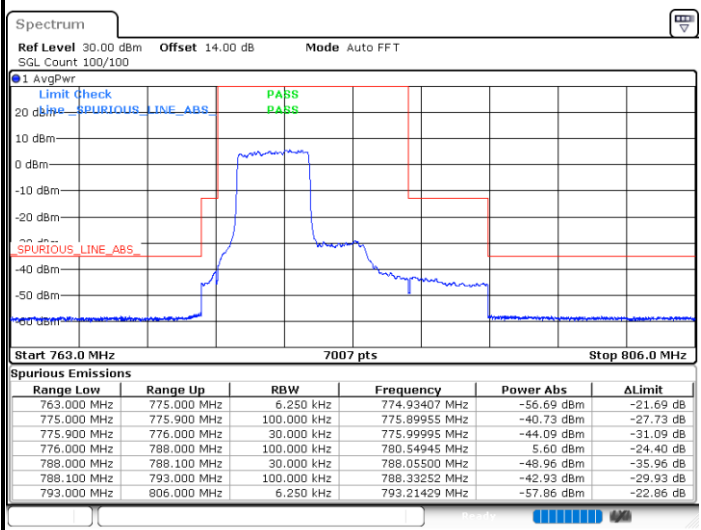


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Date: 25.JAN.2024 19:14:51

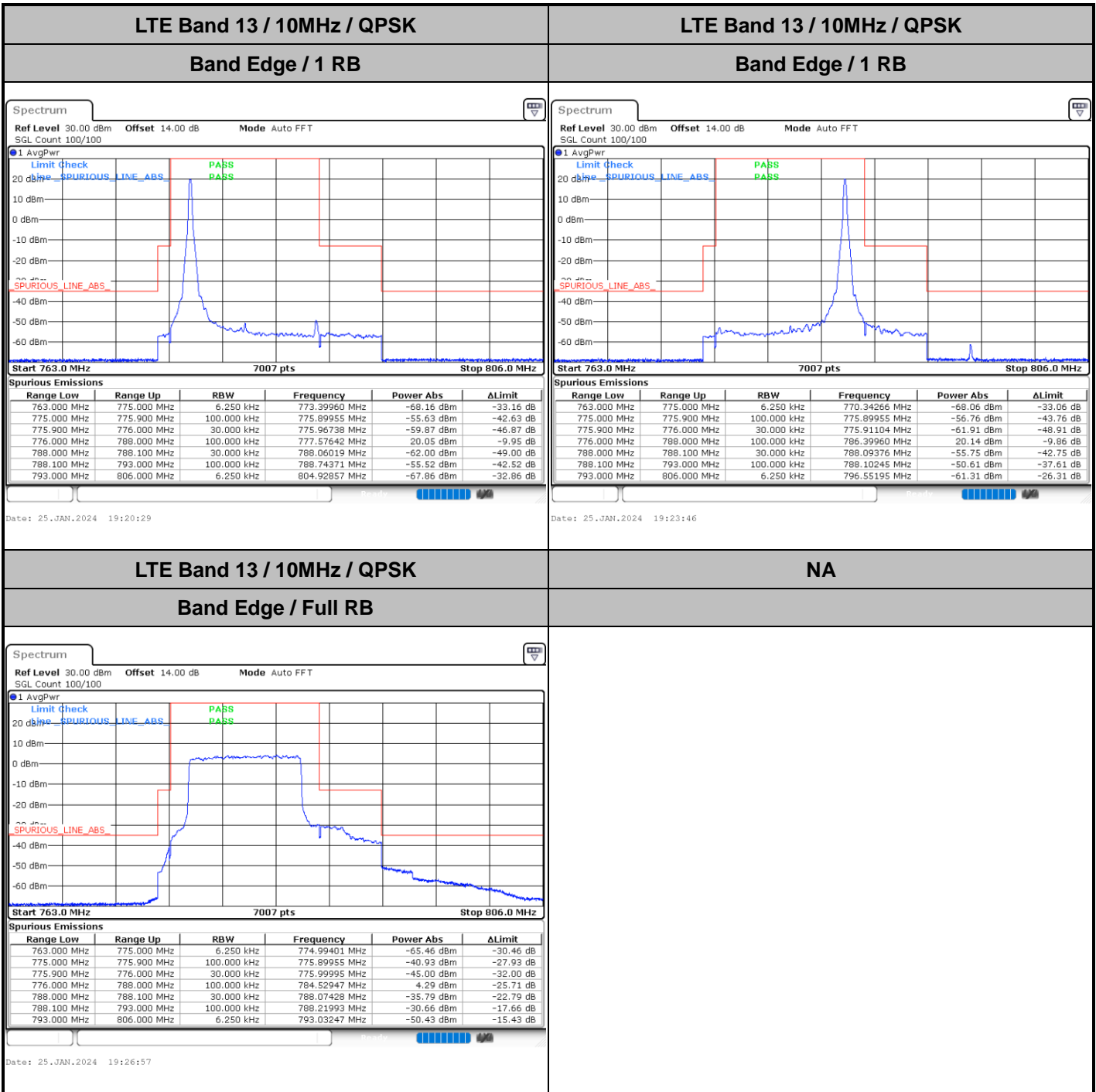
Lowest Band Edge / Full RB

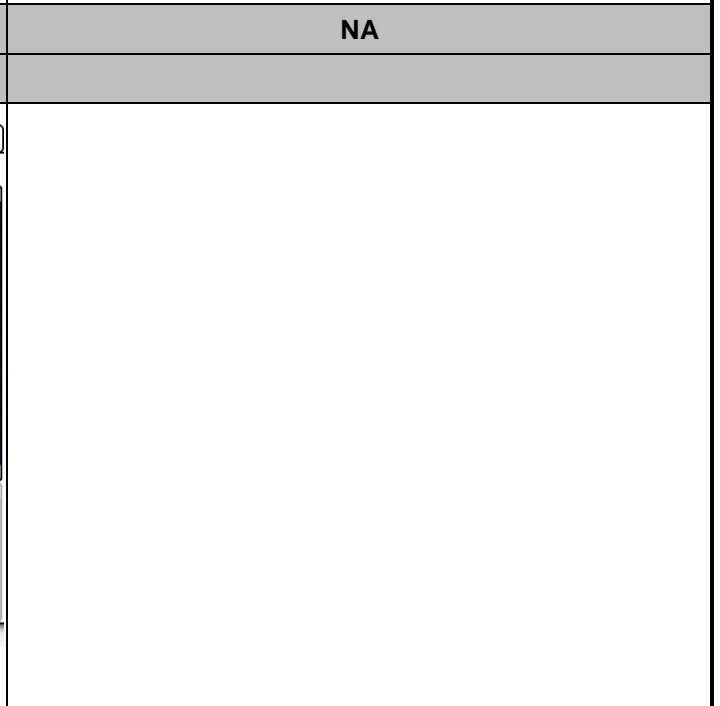
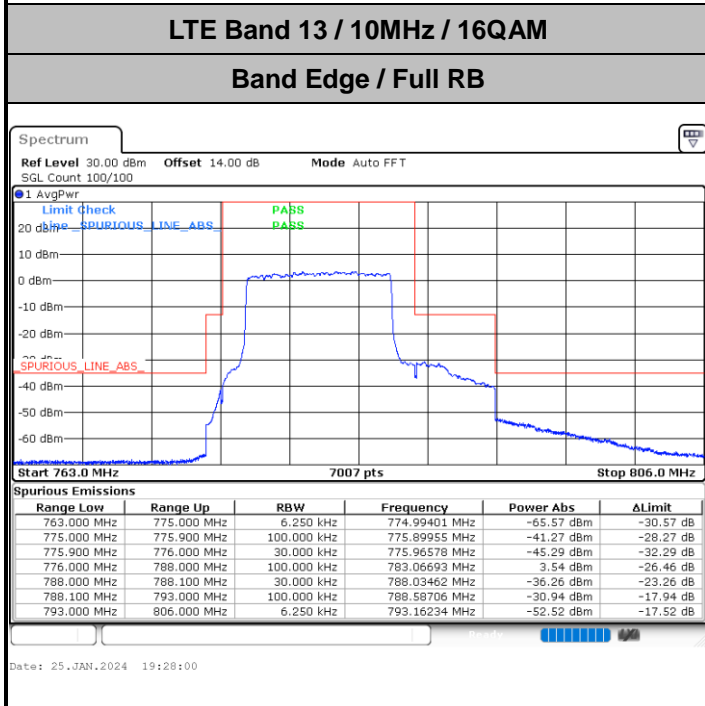
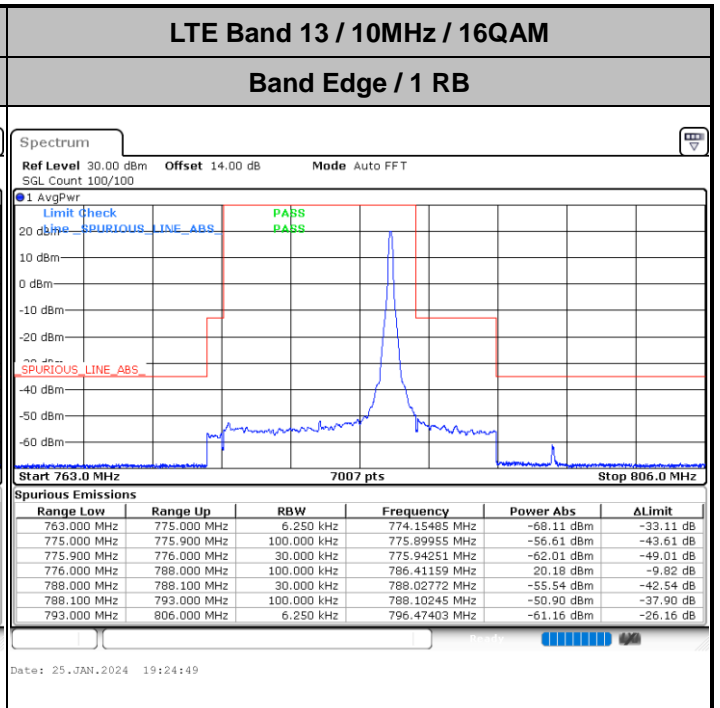
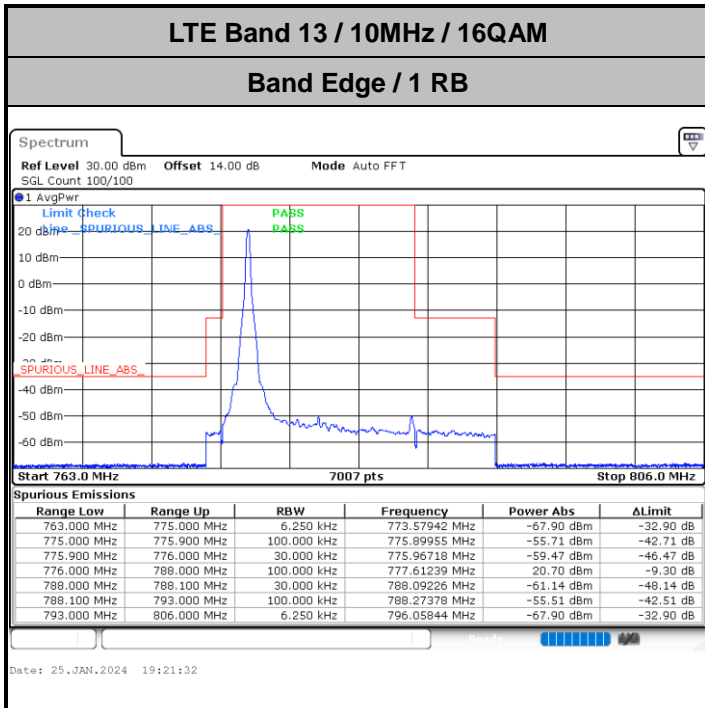
Highest Band Edge / Full RB

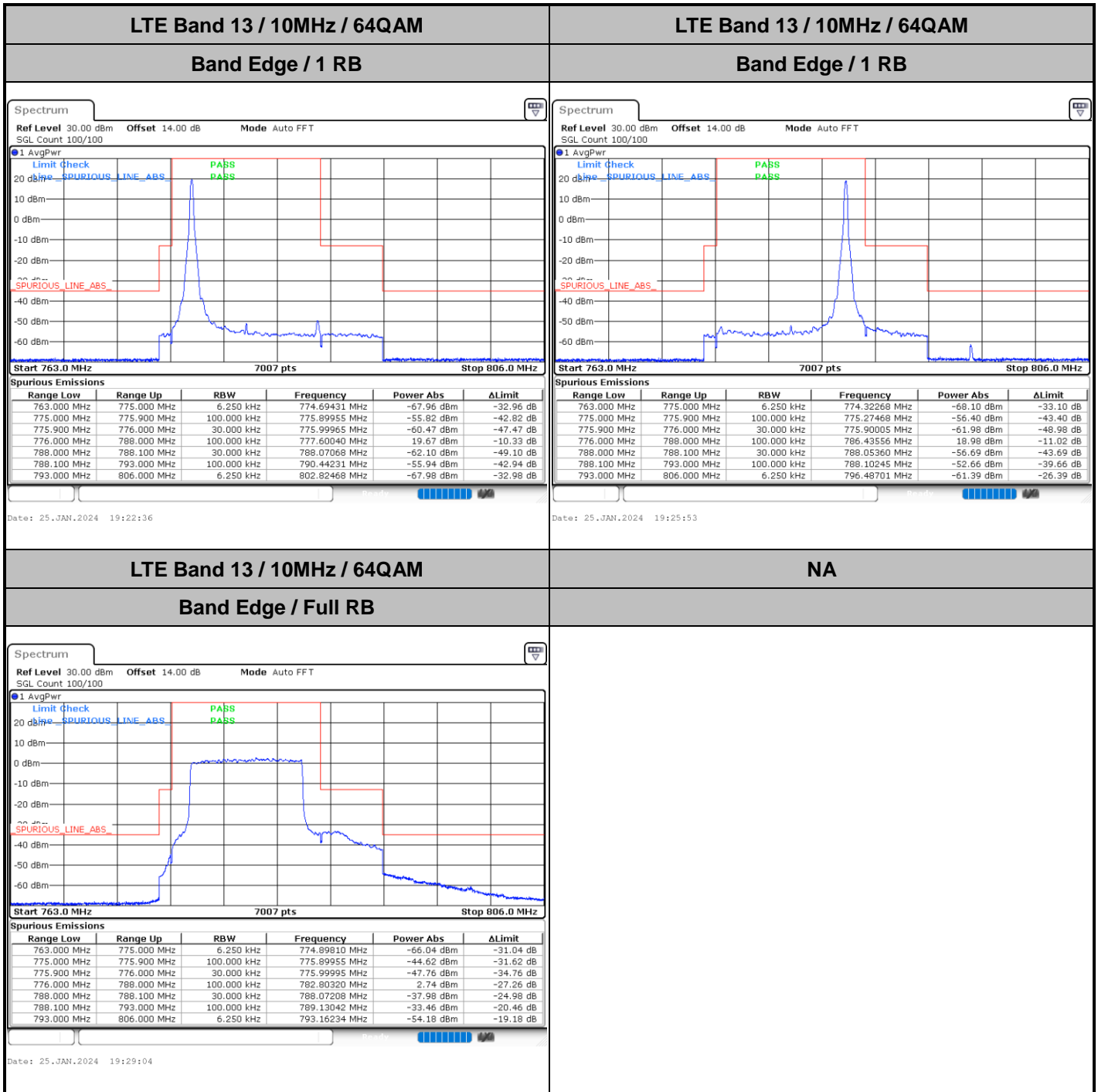


Date: 25.JAN.2024 19:07:44

Date: 25.JAN.2024 19:18:03









Conducted Spurious Emission

