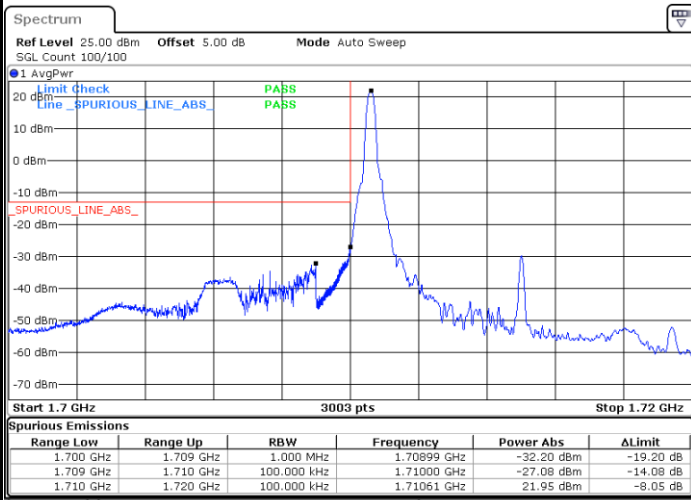




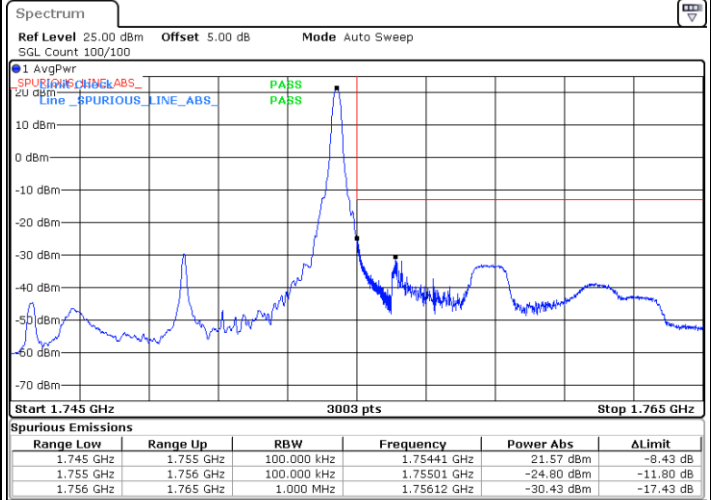
LTE Band 4 / 10MHz / QPSK

Lowest Band Edge / 1 RB



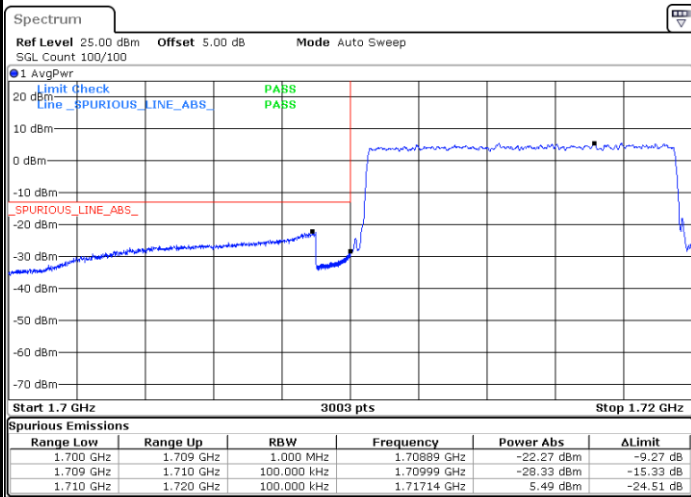
Date: 5.AUG.2022 18:56:02

Highest Band Edge / 1 RB



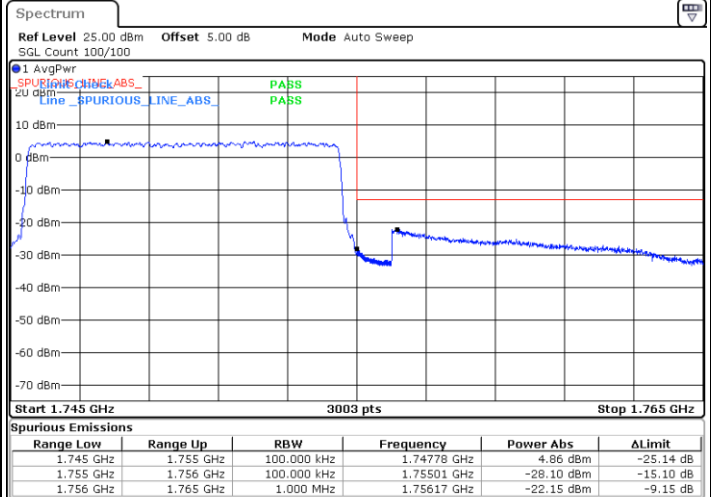
Date: 5.AUG.2022 19:04:54

Lowest Band Edge / Full RB



Date: 5.AUG.2022 19:00:15

Highest Band Edge / Full RB

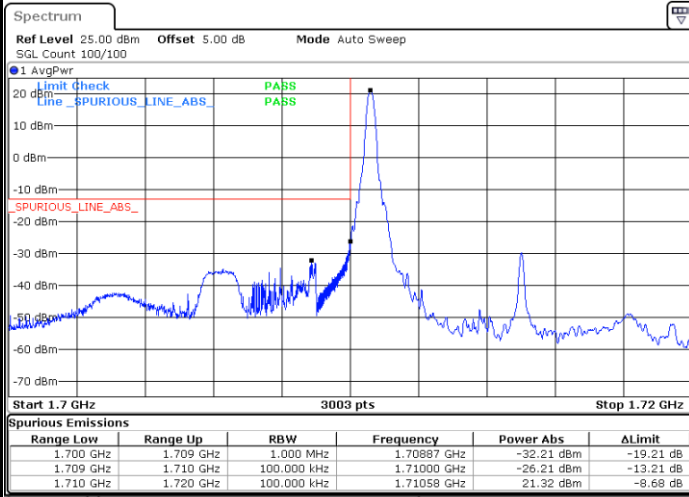


Date: 5.AUG.2022 19:00:47



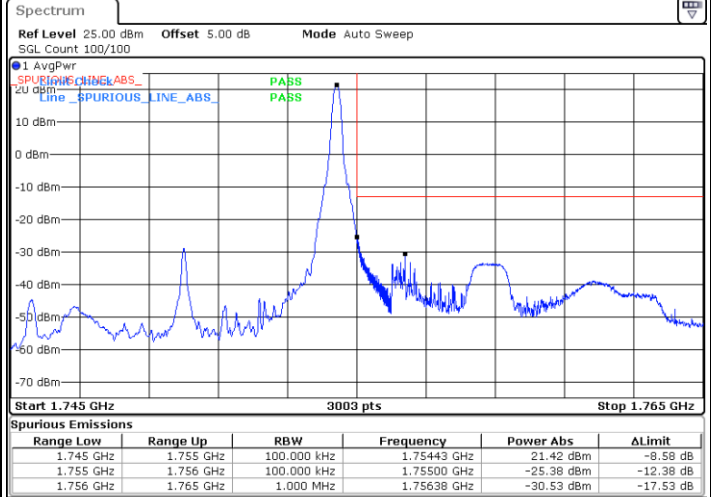
LTE Band 4 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



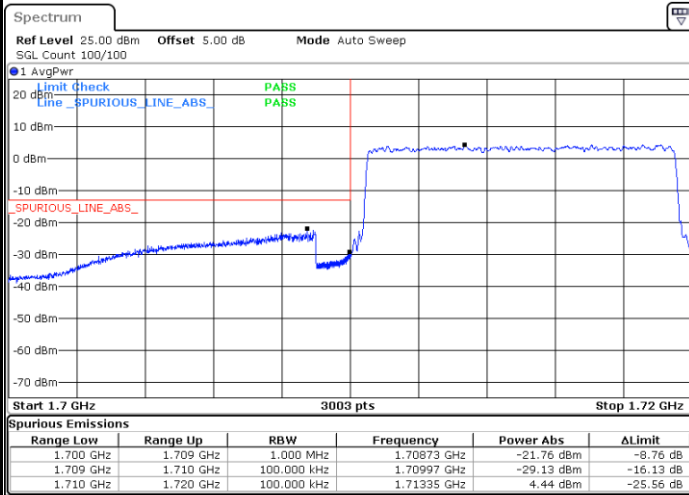
Date: 5.AUG.2022 18:56:32

Highest Band Edge / 1 RB



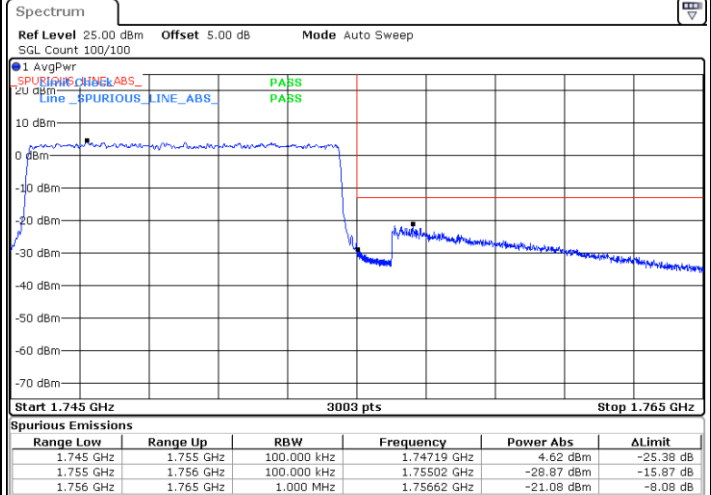
Date: 5.AUG.2022 19:04:27

Lowest Band Edge / Full RB



Date: 5.AUG.2022 18:59:48

Highest Band Edge / Full RB

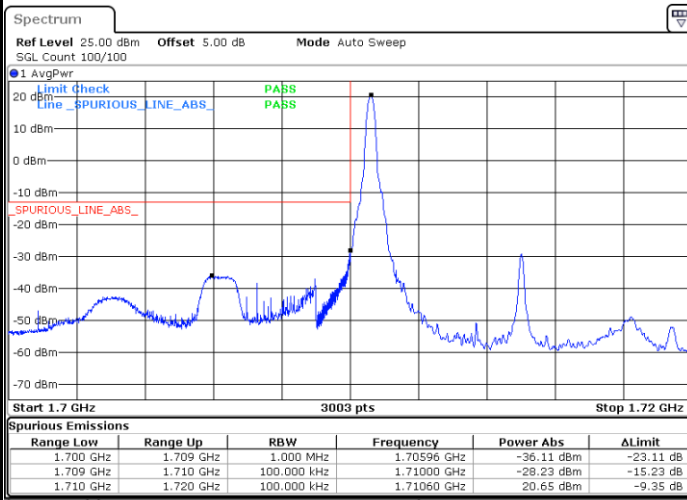


Date: 5.AUG.2022 19:01:13



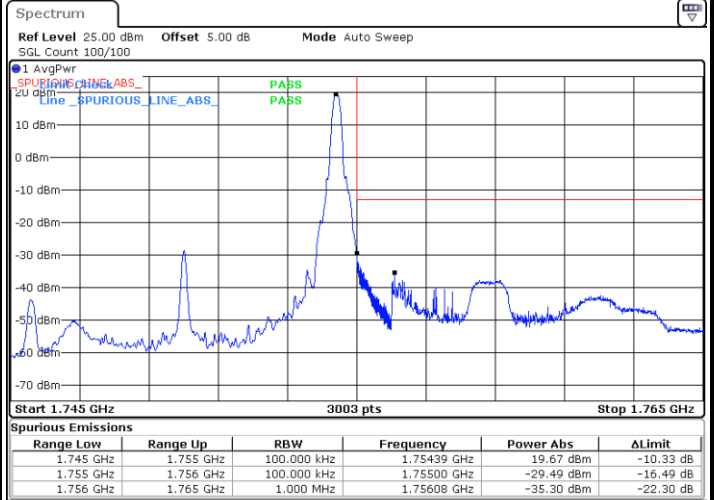
LTE Band 4 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



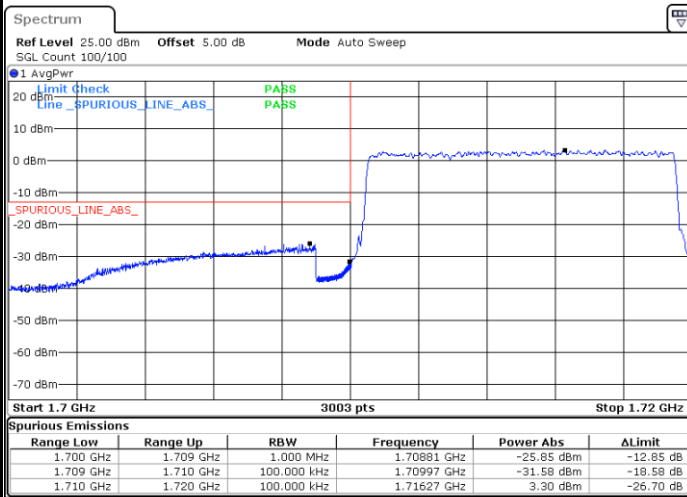
Date: 5.AUG.2022 18:56:58

Highest Band Edge / 1 RB



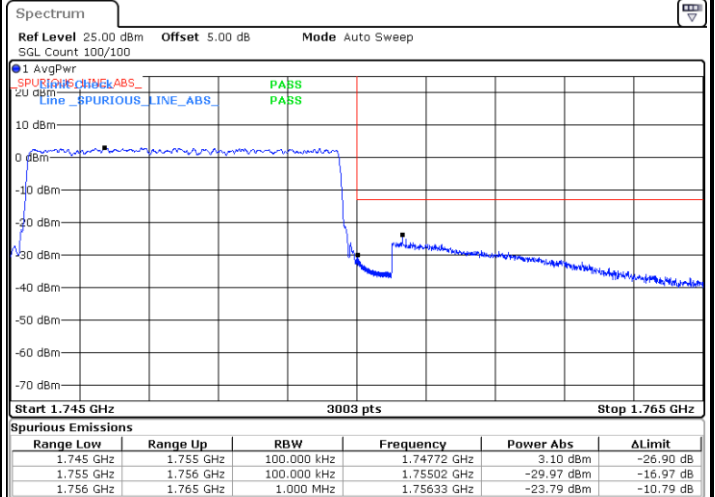
Date: 5.AUG.2022 19:04:03

Lowest Band Edge / Full RB



Date: 5.AUG.2022 18:59:19

Highest Band Edge / Full RB

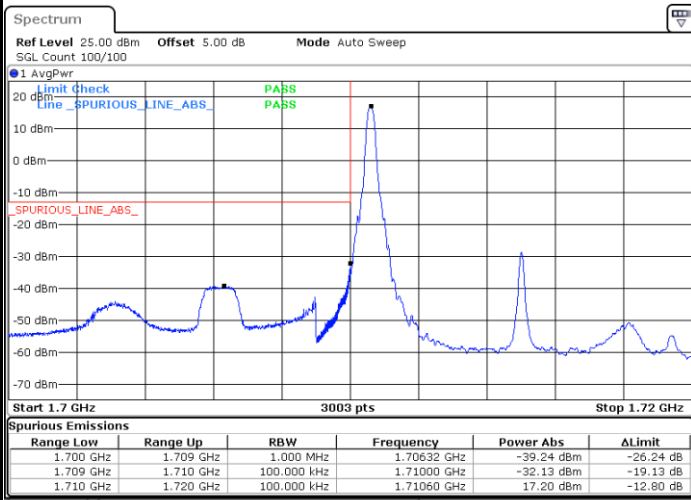


Date: 5.AUG.2022 19:02:20



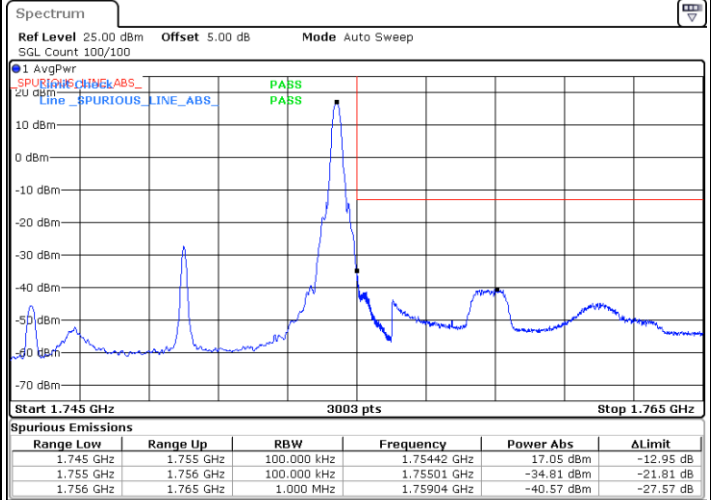
LTE Band 4 / 10MHz / 256QAM

Lowest Band Edge / 1 RB



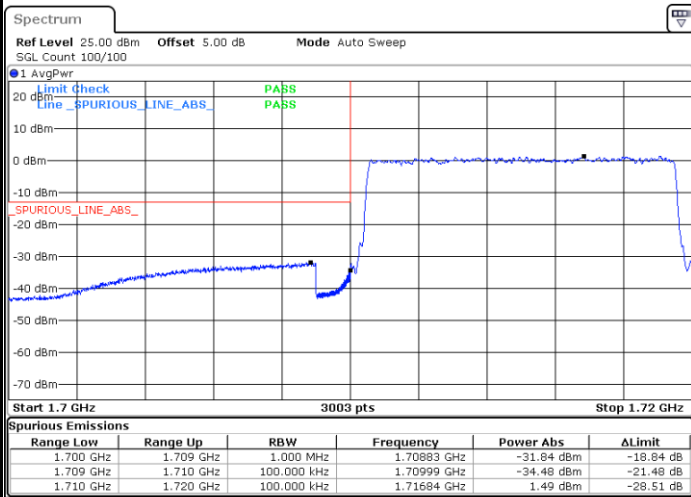
Date: 5.AUG.2022 18:57:25

Highest Band Edge / 1 RB



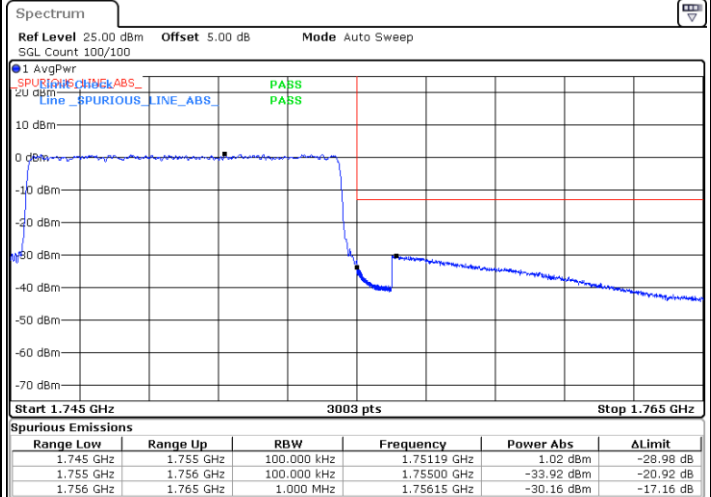
Date: 5.AUG.2022 19:03:20

Lowest Band Edge / Full RB



Date: 5.AUG.2022 18:58:51

Highest Band Edge / Full RB



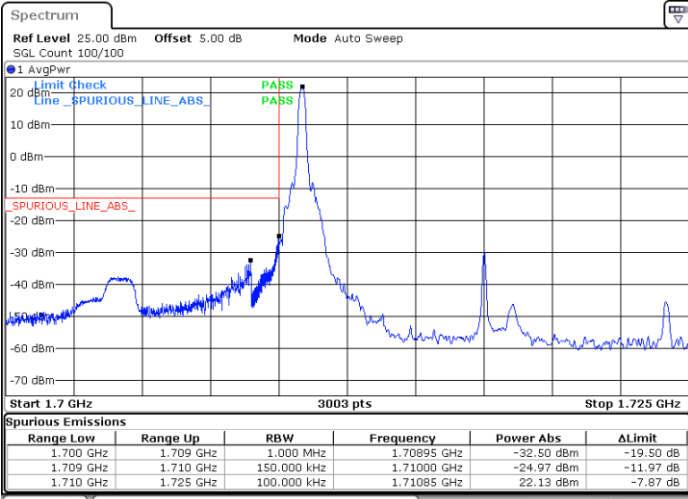
Date: 5.AUG.2022 19:02:46



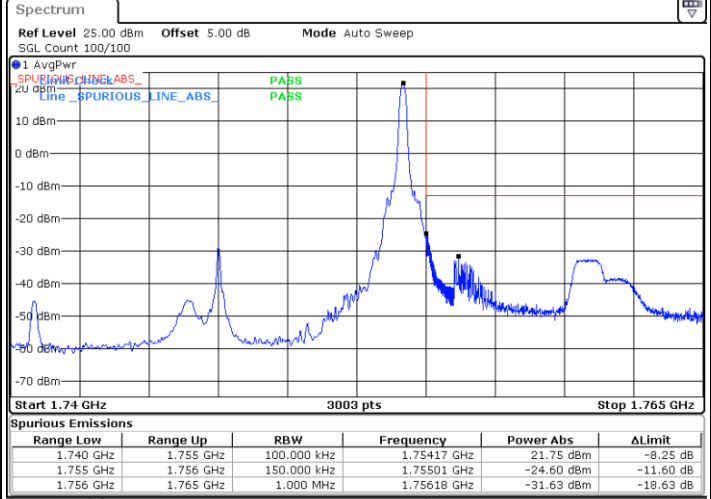
LTE Band 4 / 15MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



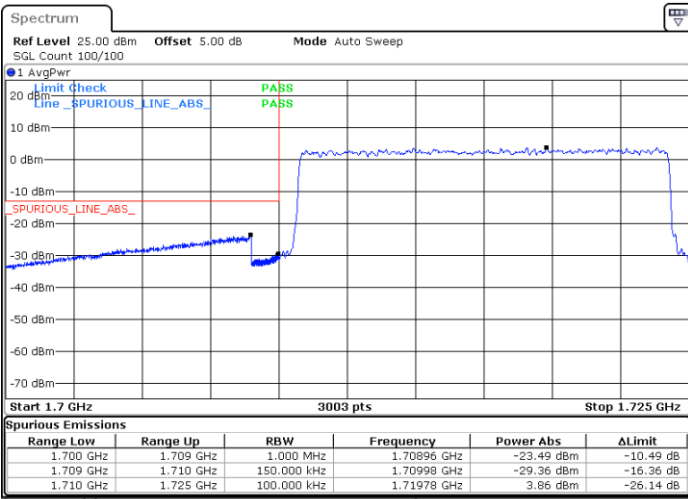
Date: 5.AUG.2022 19:11:28



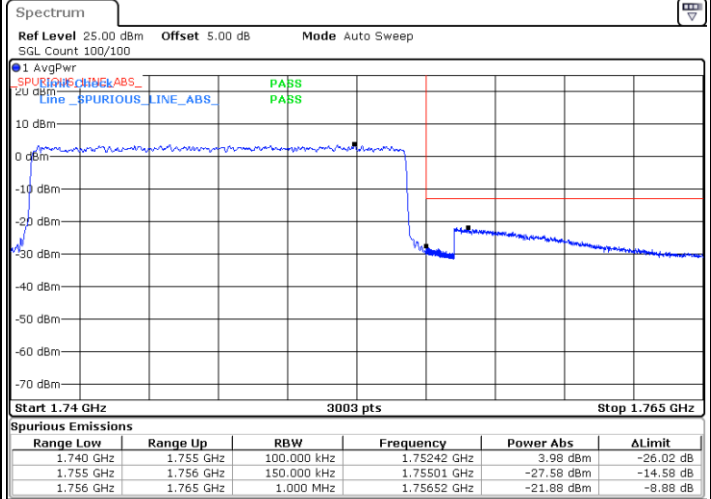
Date: 5.AUG.2022 19:20:05

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 5.AUG.2022 19:16:03

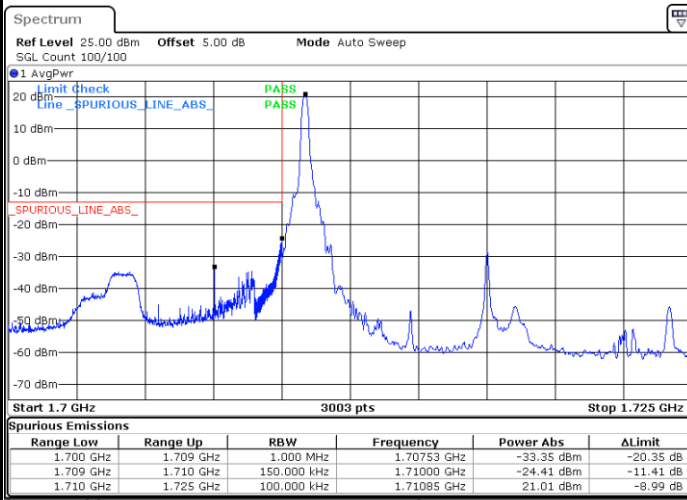


Date: 5.AUG.2022 19:16:39



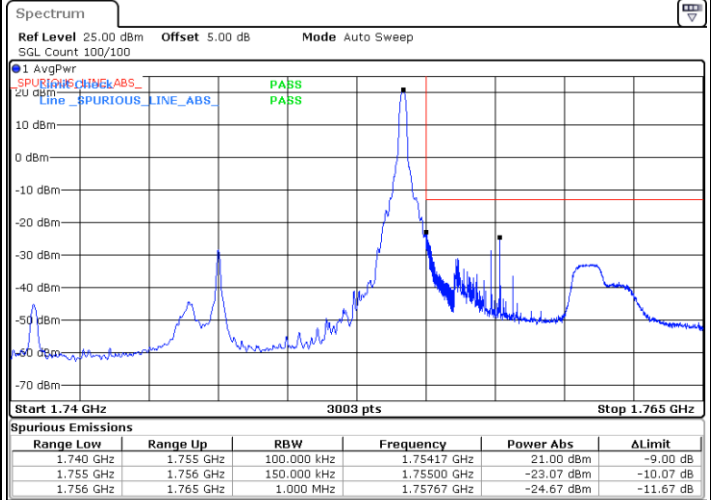
LTE Band 4 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



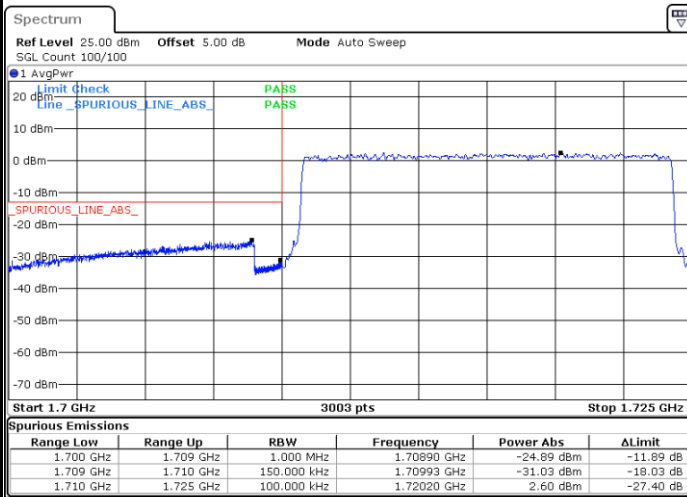
Date: 5.AUG.2022 19:12:01

Highest Band Edge / 1 RB



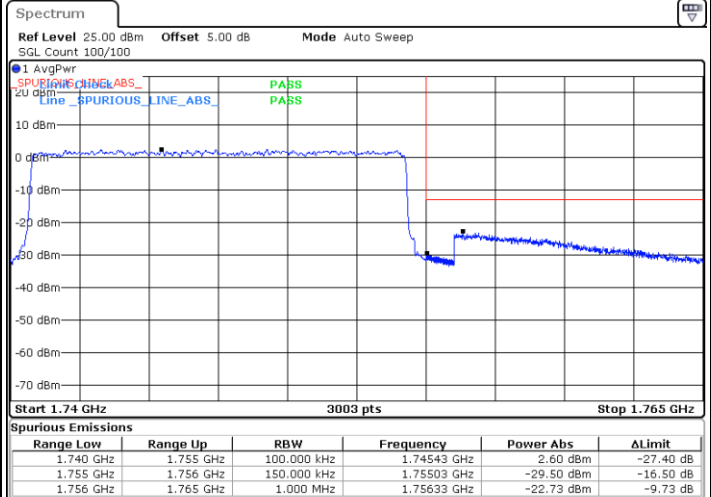
Date: 5.AUG.2022 19:19:41

Lowest Band Edge / Full RB



Date: 5.AUG.2022 19:15:21

Highest Band Edge / Full RB

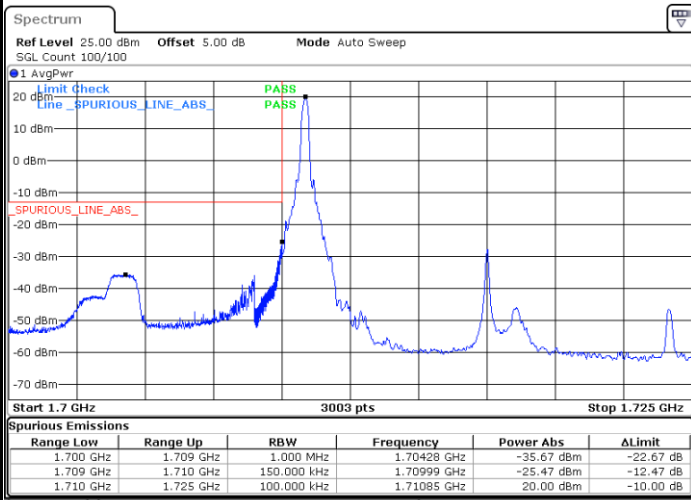


Date: 5.AUG.2022 19:17:13



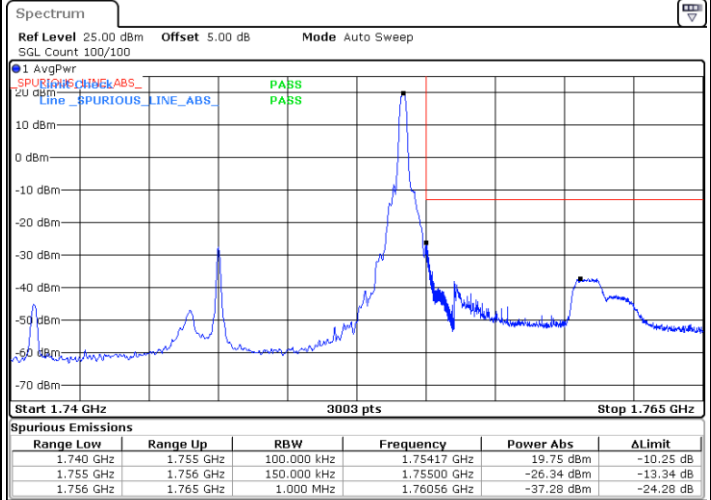
LTE Band 4 / 15MHz / 64QAM

Lowest Band Edge / 1 RB



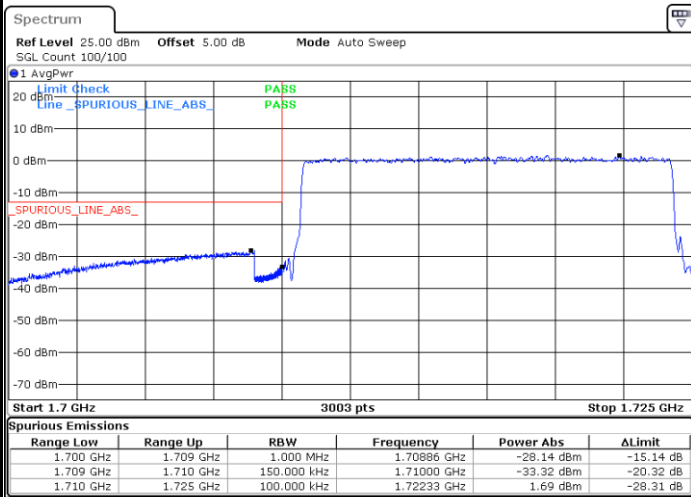
Date: 5.AUG.2022 19:12:27

Highest Band Edge / 1 RB



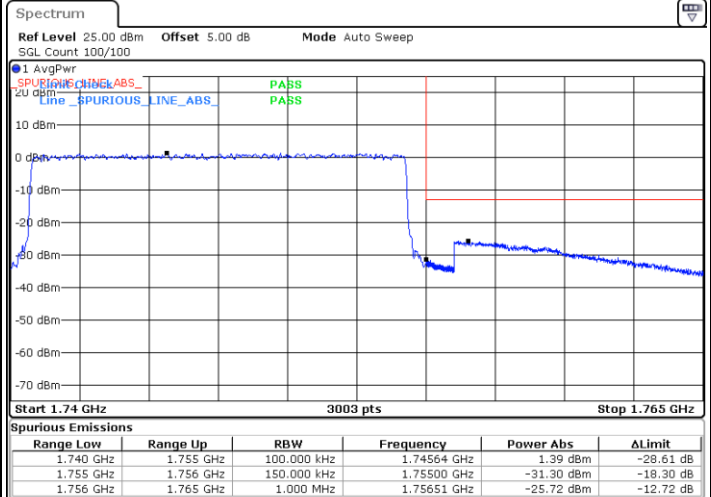
Date: 5.AUG.2022 19:19:15

Lowest Band Edge / Full RB



Date: 5.AUG.2022 19:14:49

Highest Band Edge / Full RB

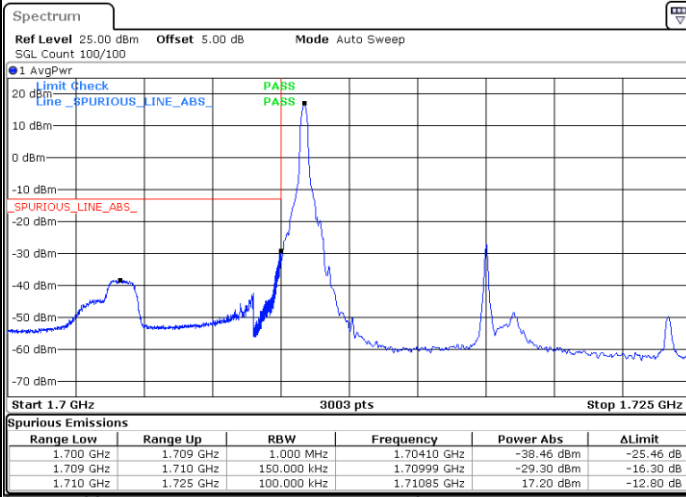


Date: 5.AUG.2022 19:17:44



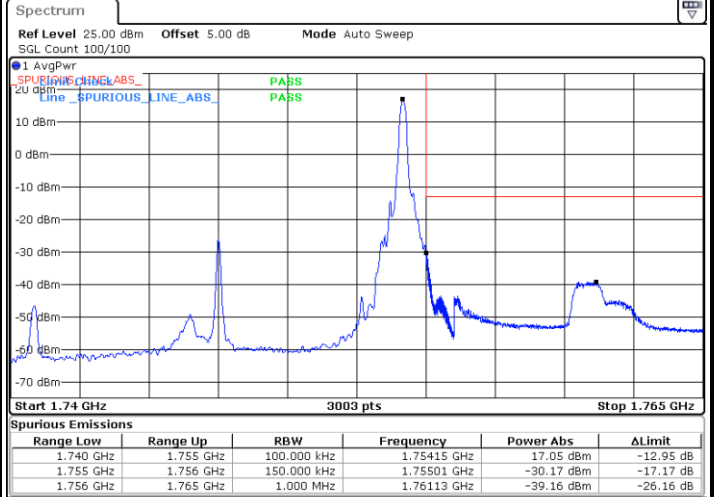
LTE Band 4 / 15MHz / 256QAM

Lowest Band Edge / 1 RB



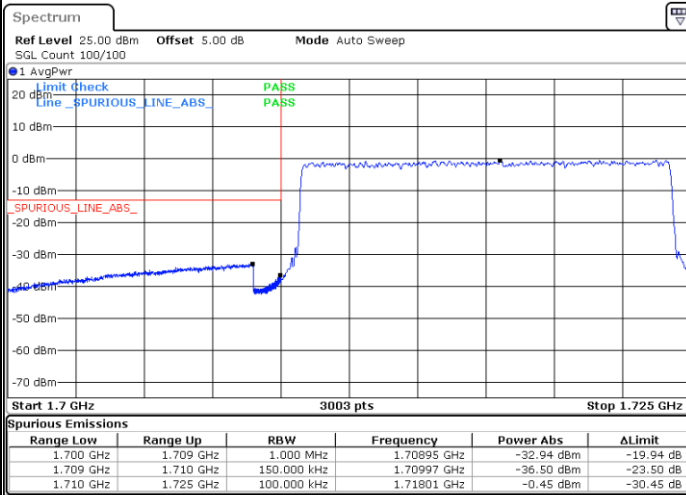
Date: 5.AUG.2022 19:12:57

Highest Band Edge / 1 RB



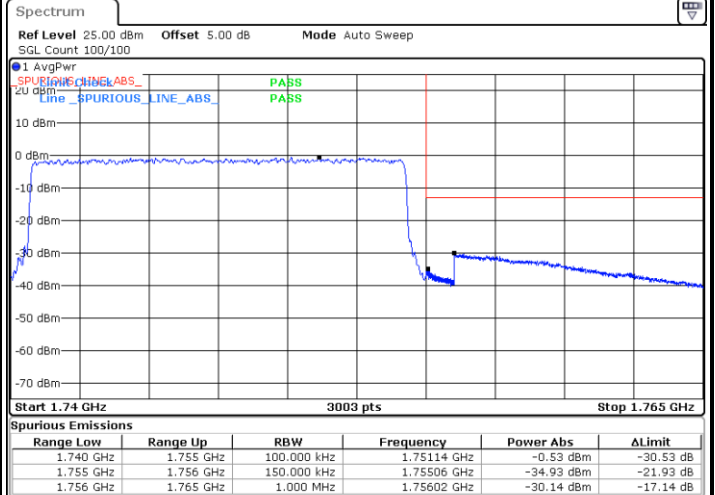
Date: 5.AUG.2022 19:18:47

Lowest Band Edge / Full RB



Date: 5.AUG.2022 19:14:08

Highest Band Edge / Full RB



Date: 5.AUG.2022 19:18:08

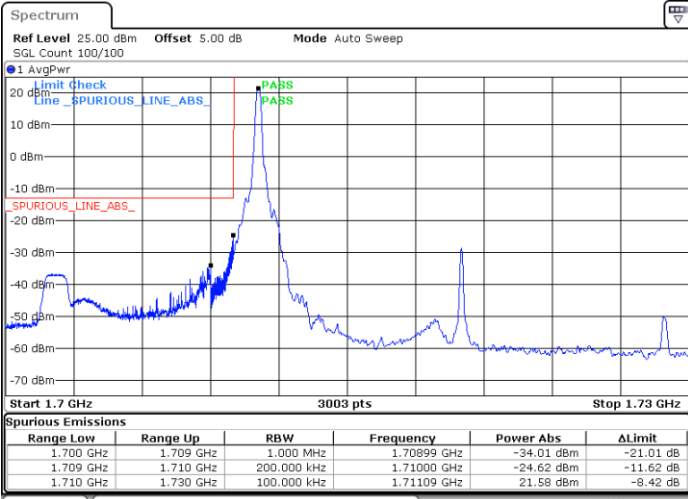




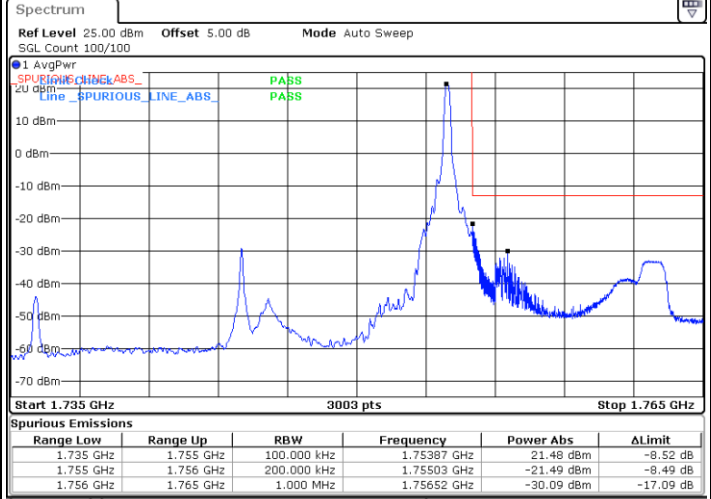
LTE Band 4 / 20MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



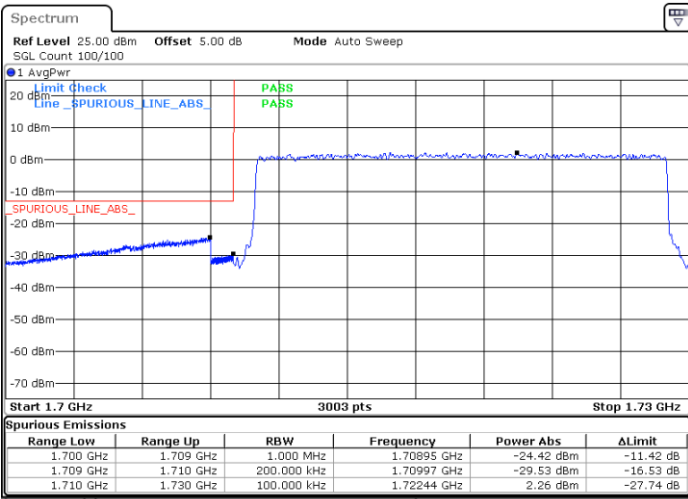
Date: 5.AUG.2022 19:26:25



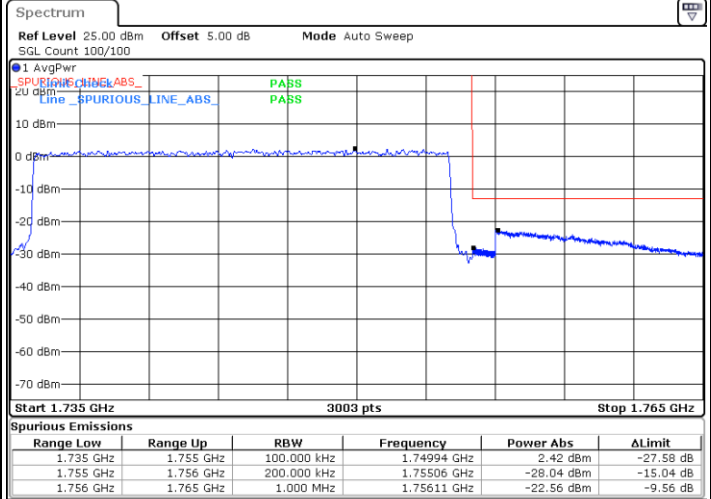
Date: 5.AUG.2022 19:35:00

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 5.AUG.2022 19:31:05

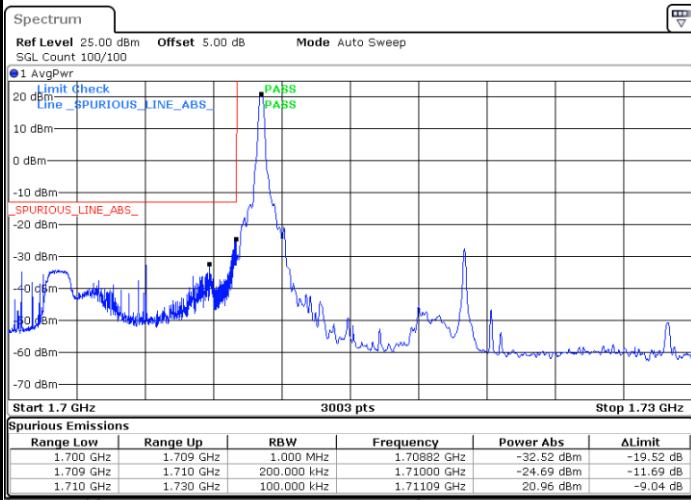


Date: 5.AUG.2022 19:31:32



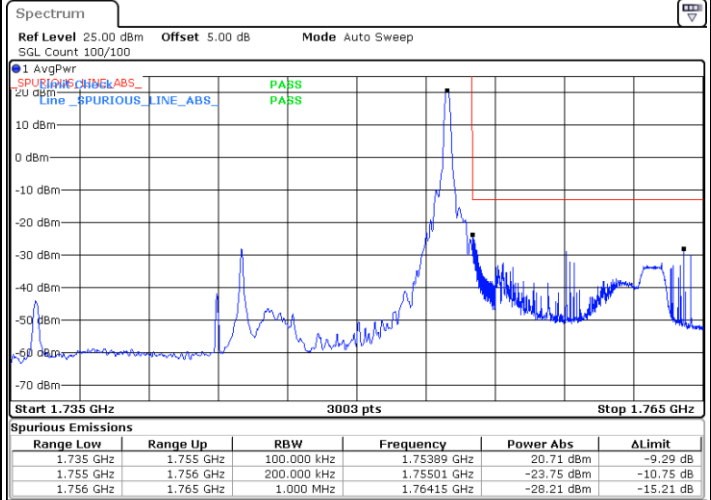
LTE Band 4 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



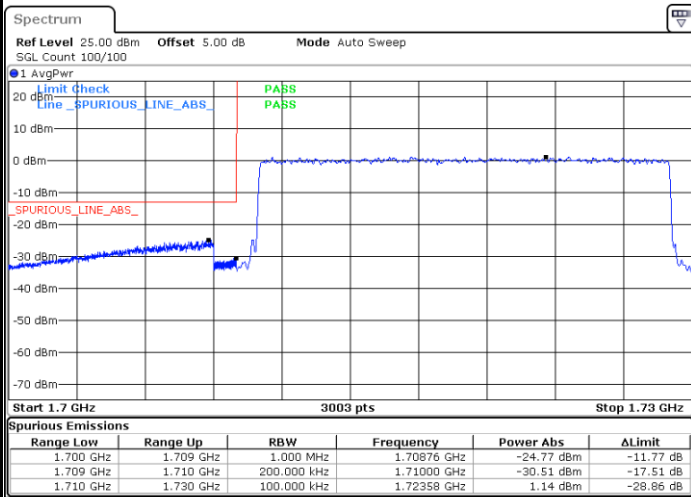
Date: 5.AUG.2022 19:26:49

Highest Band Edge / 1 RB



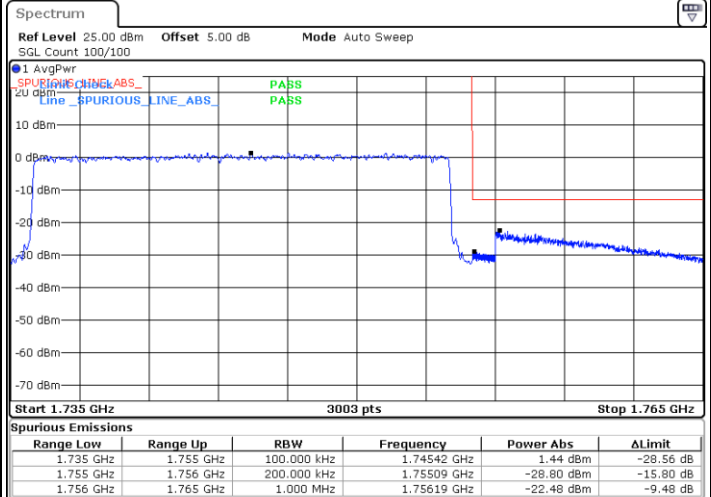
Date: 5.AUG.2022 19:34:37

Lowest Band Edge / Full RB



Date: 5.AUG.2022 19:30:38

Highest Band Edge / Full RB

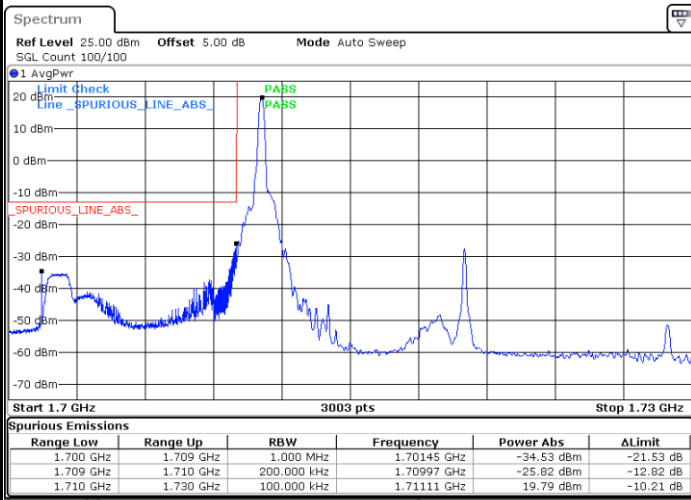


Date: 5.AUG.2022 19:32:02



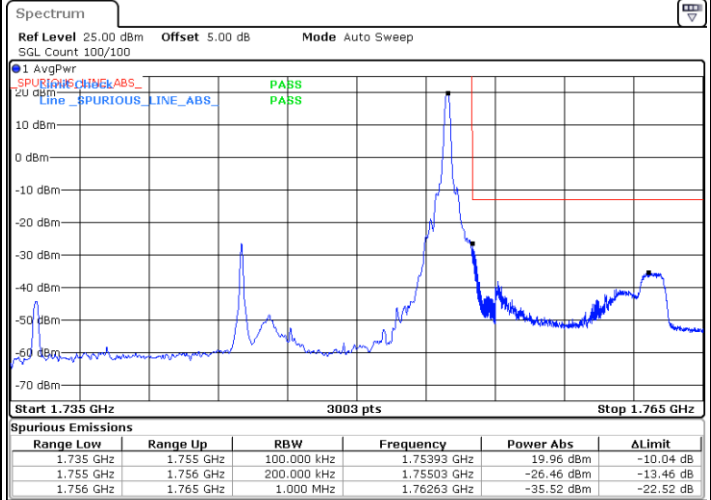
LTE Band 4 / 20MHz / 64QAM

Lowest Band Edge / 1 RB



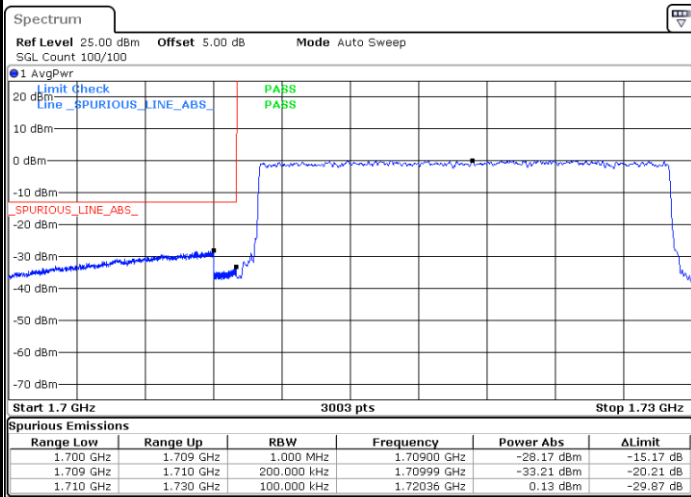
Date: 5.AUG.2022 19:27:37

Highest Band Edge / 1 RB



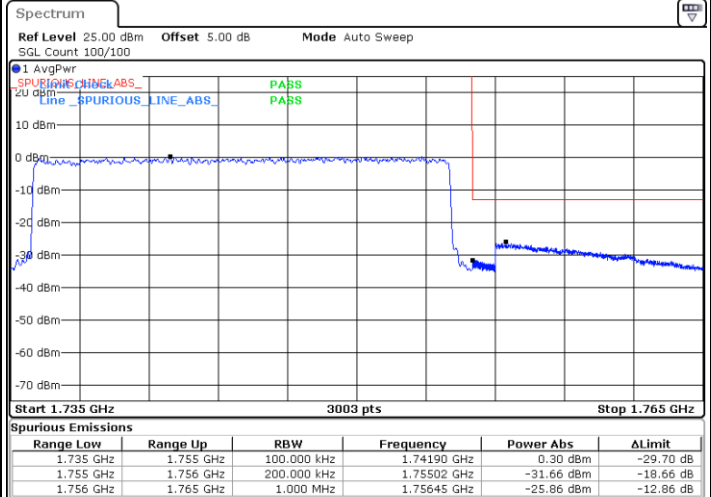
Date: 5.AUG.2022 19:34:11

Lowest Band Edge / Full RB



Date: 5.AUG.2022 19:30:10

Highest Band Edge / Full RB

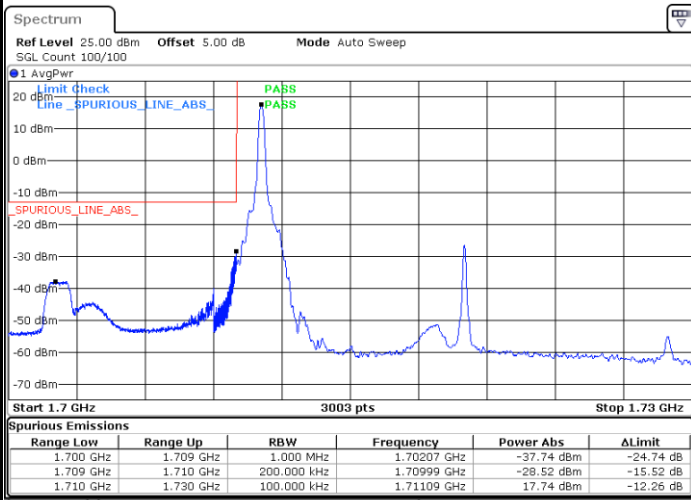


Date: 5.AUG.2022 19:32:30



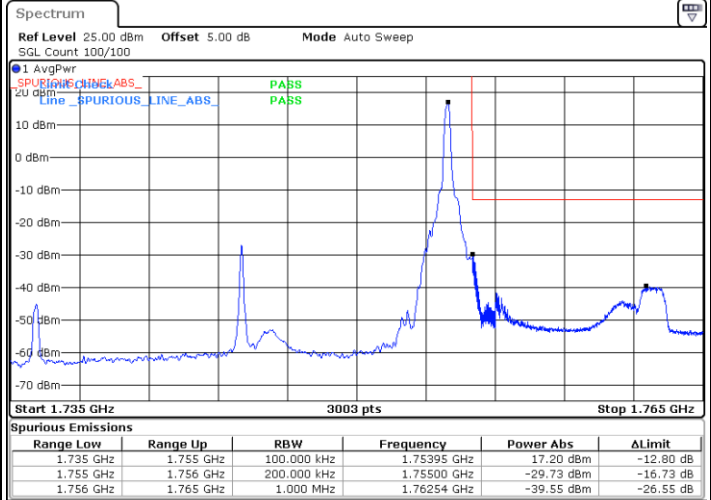
LTE Band 4 / 20MHz / 256QAM

Lowest Band Edge / 1 RB



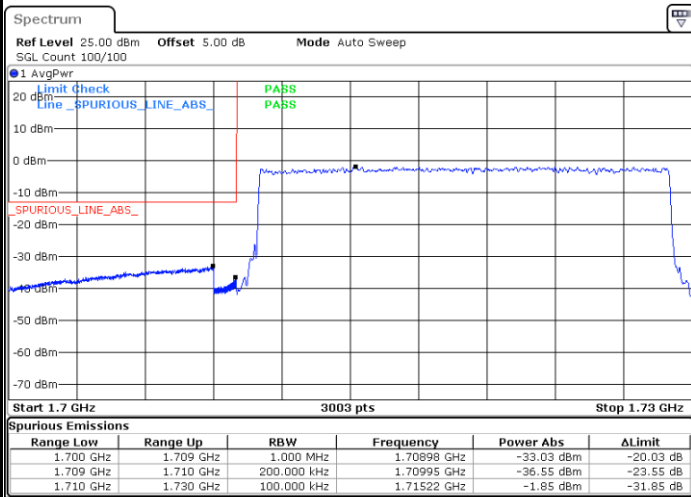
Date: 5.AUG.2022 19:28:03

Highest Band Edge / 1 RB



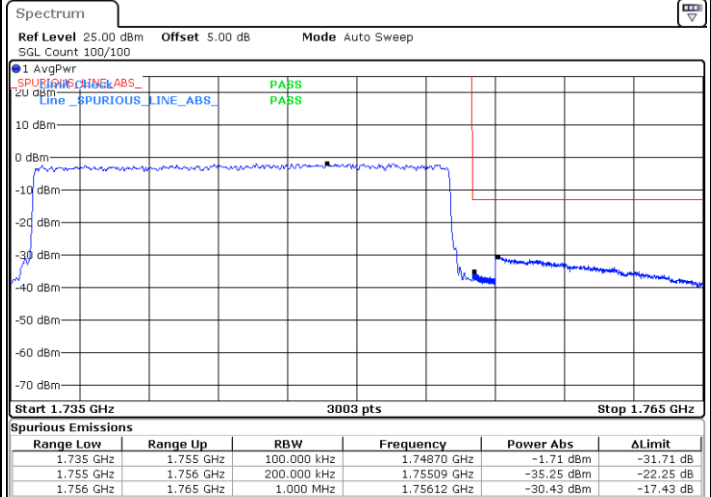
Date: 5.AUG.2022 19:33:34

Lowest Band Edge / Full RB



Date: 5.AUG.2022 19:29:43

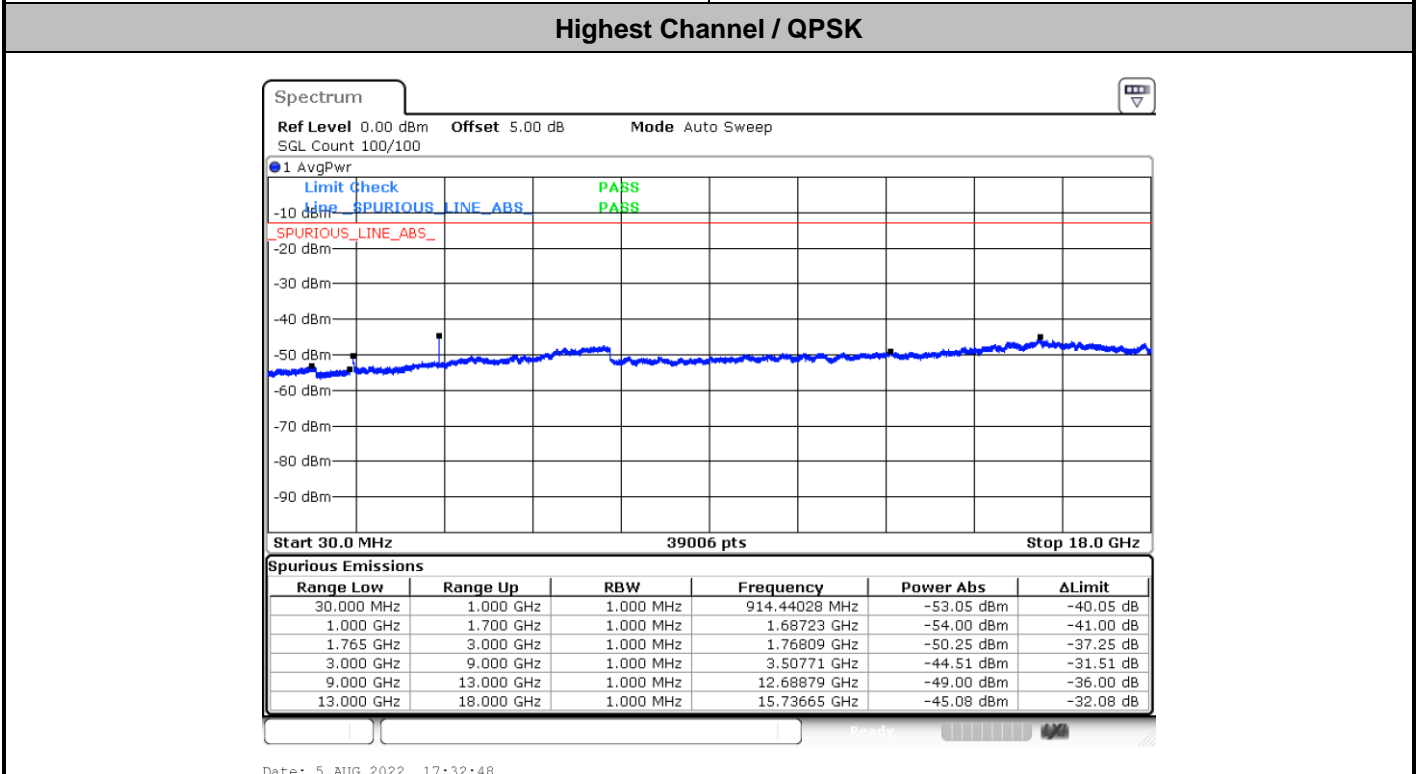
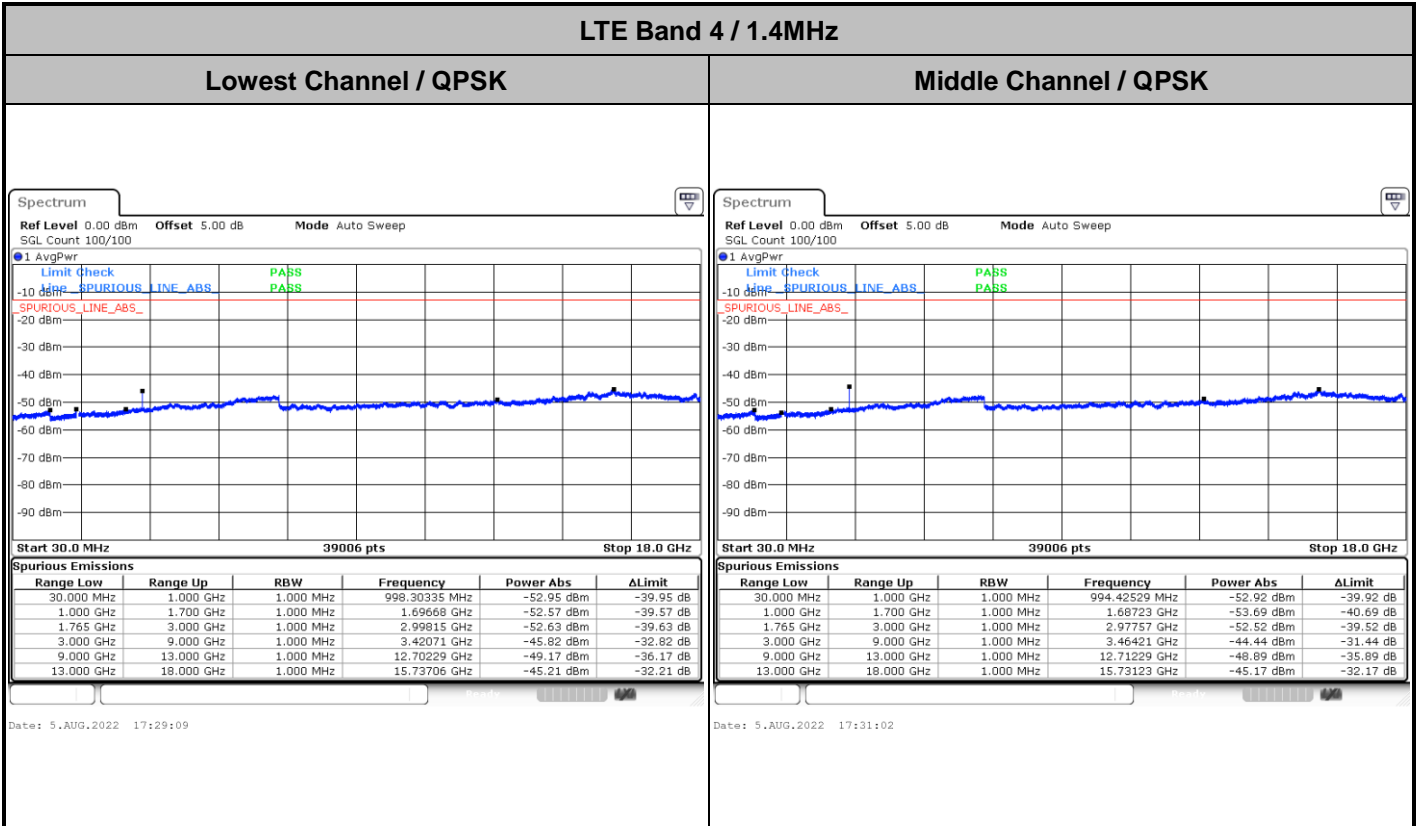
Highest Band Edge / Full RB



Date: 5.AUG.2022 19:33:01



# Conducted Spurious Emission

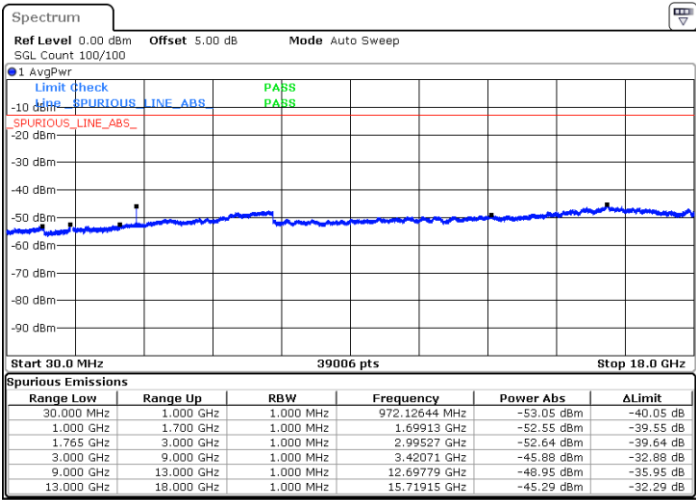




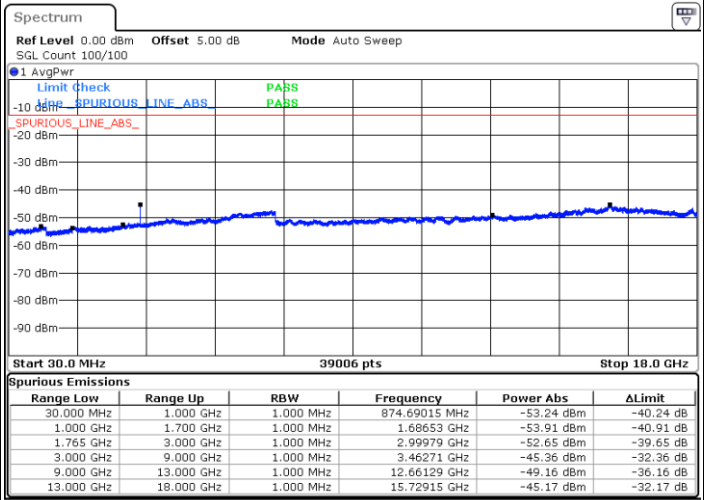
LTE Band 4 / 3MHz

Lowest Channel / QPSK

Middle Channel / QPSK

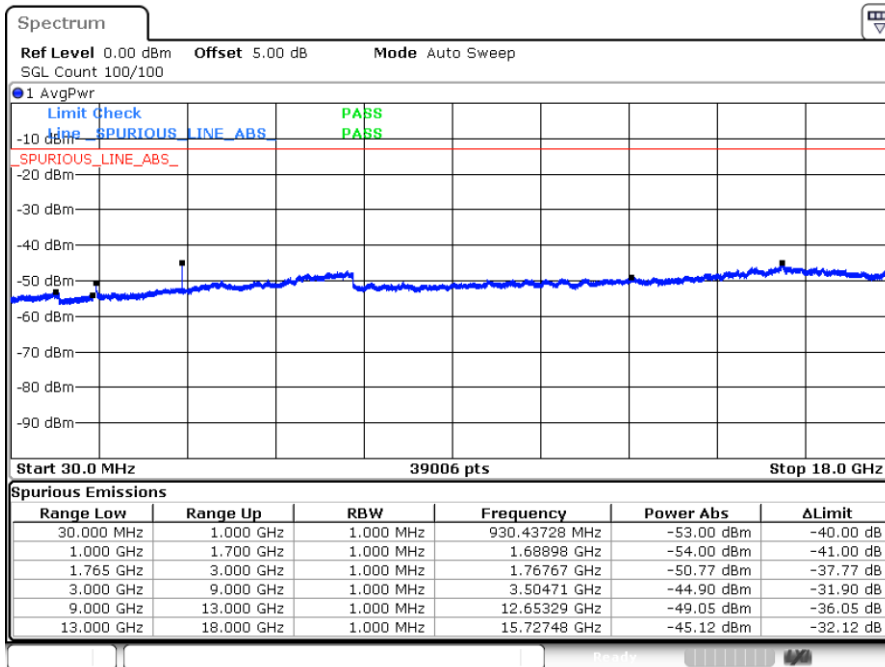


Date: 5.AUG.2022 18:36:00



Date: 5.AUG.2022 18:34:14

Highest Channel / QPSK



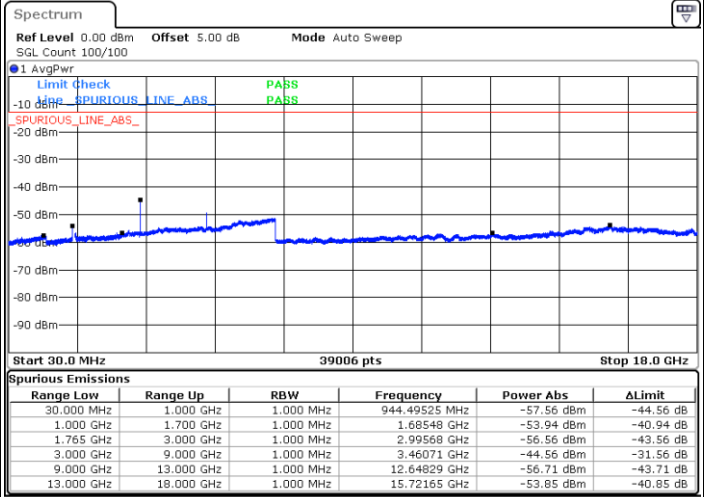
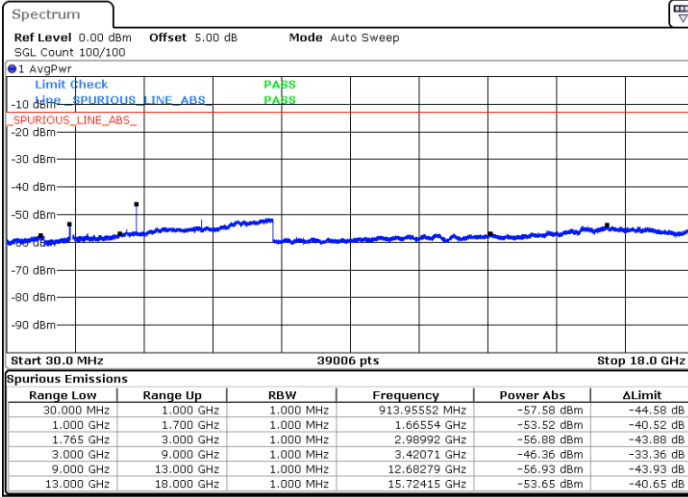
Date: 5.AUG.2022 18:32:08



LTE Band 4 / 5MHz

Lowest Channel / QPSK

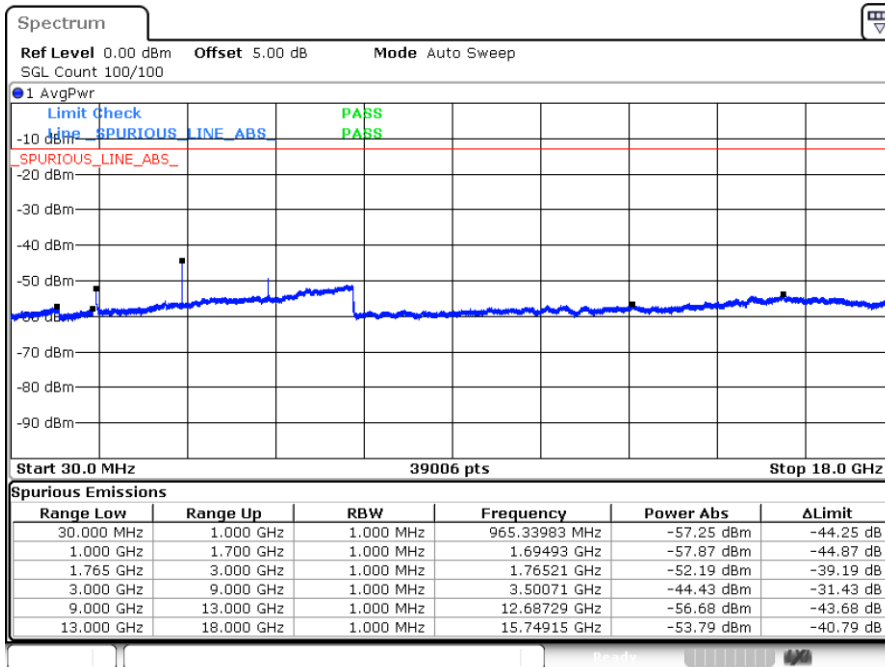
Middle Channel / QPSK



Date: 5.AUG.2022 18:55:26

Date: 5.AUG.2022 18:53:39

Highest Channel / QPSK



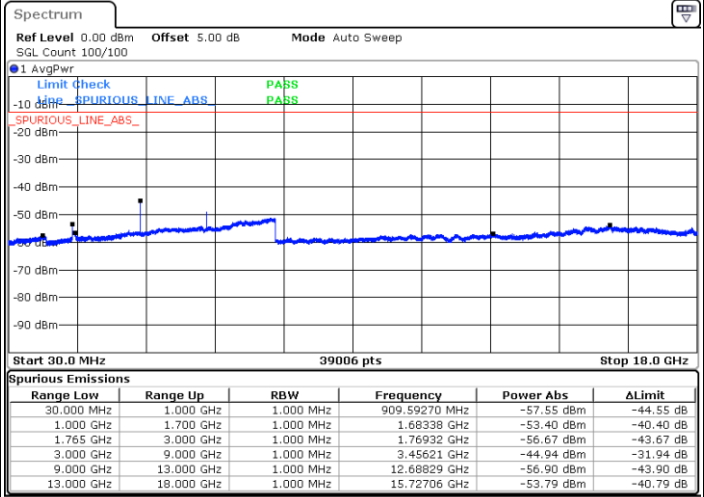
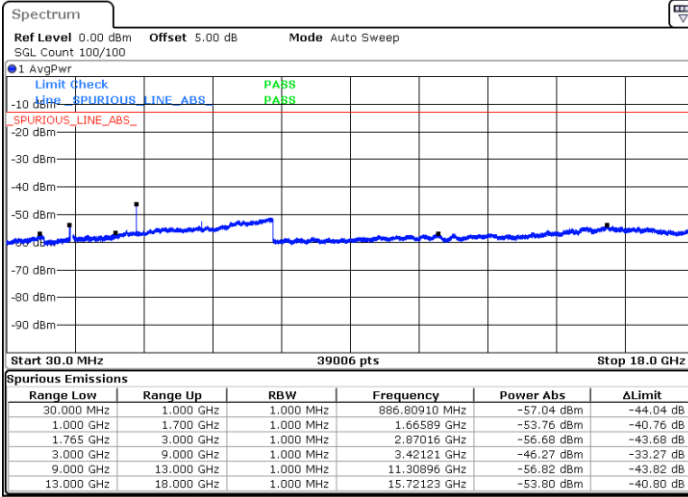
Date: 5.AUG.2022 18:51:53



LTE Band 4 / 10MHz

Lowest Channel / QPSK

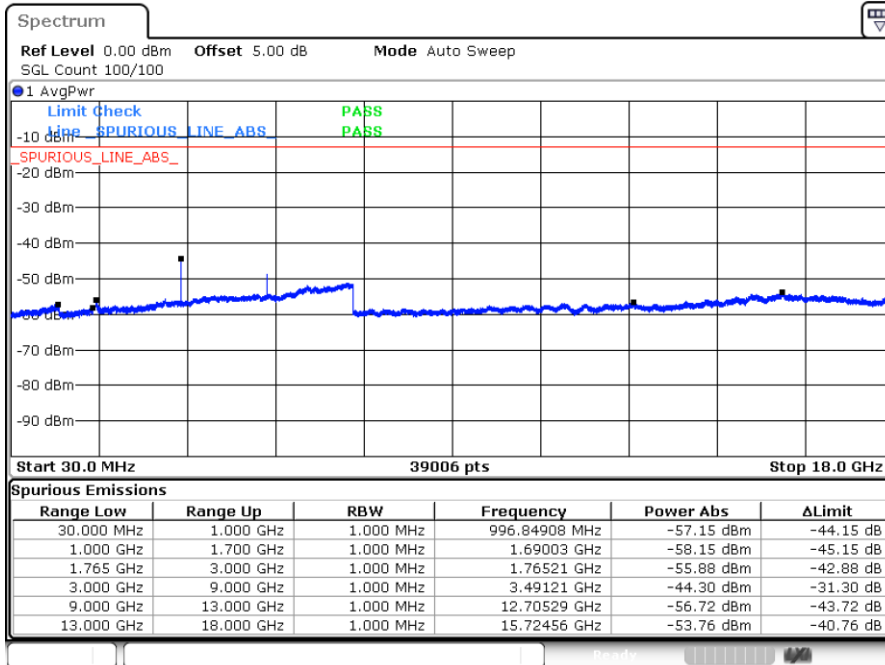
Middle Channel / QPSK



Date: 5.AUG.2022 19:10:22

Date: 5.AUG.2022 19:08:35

Highest Channel / QPSK



Date: 5.AUG.2022 19:06:50

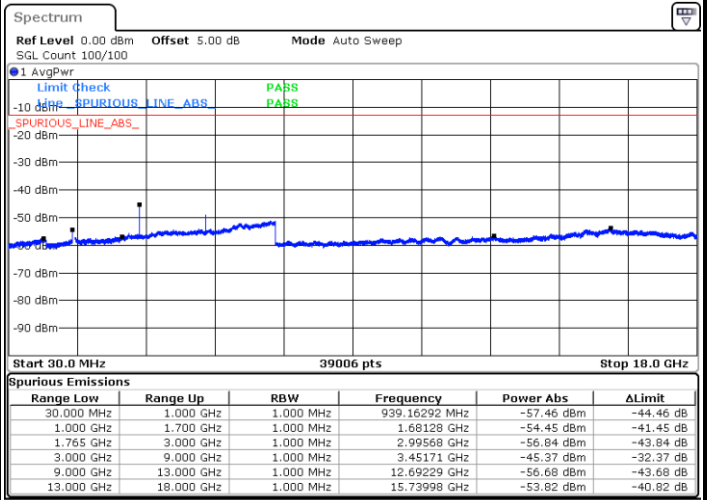
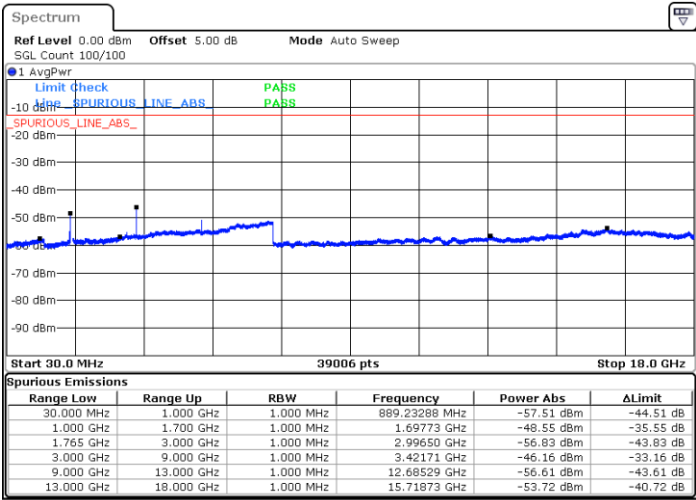




LTE Band 4 / 15MHz

Lowest Channel / QPSK

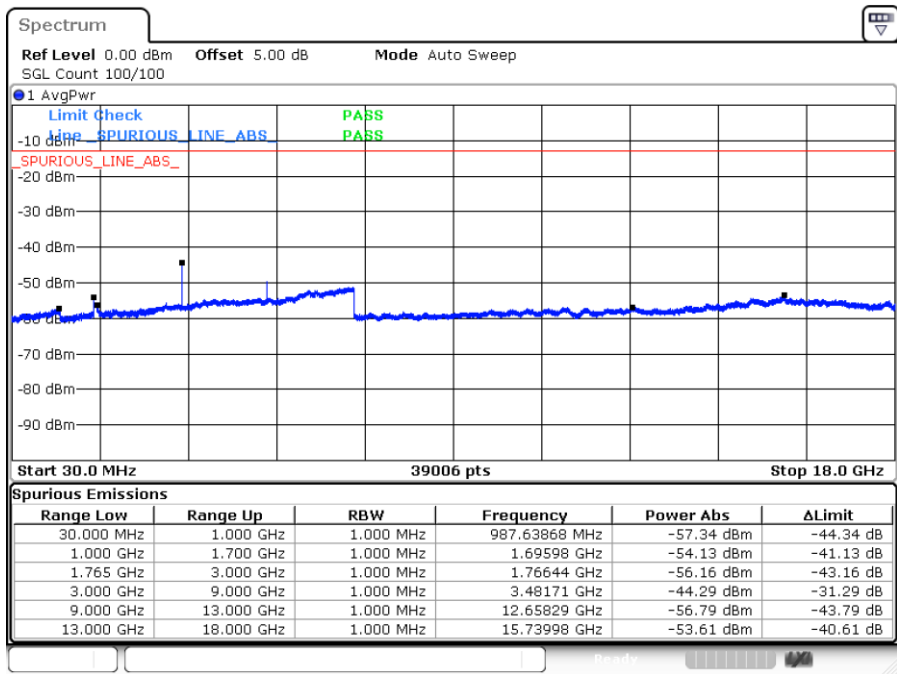
Middle Channel / QPSK



Date: 5.AUG.2022 19:25:32

Date: 5.AUG.2022 19:23:47

Highest Channel / QPSK



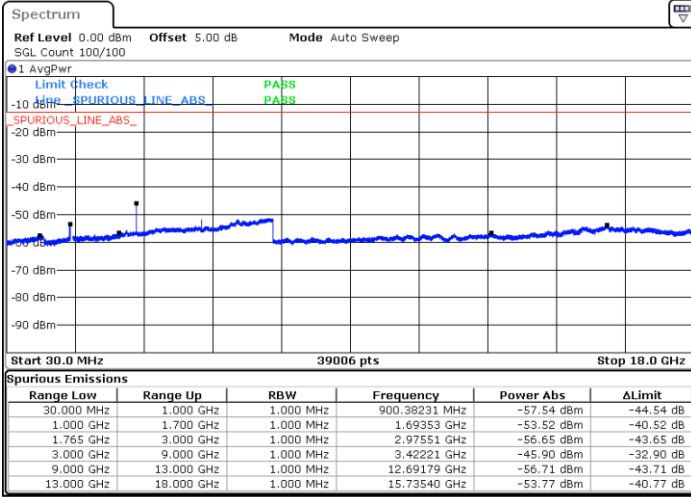
Date: 5.AUG.2022 19:22:00



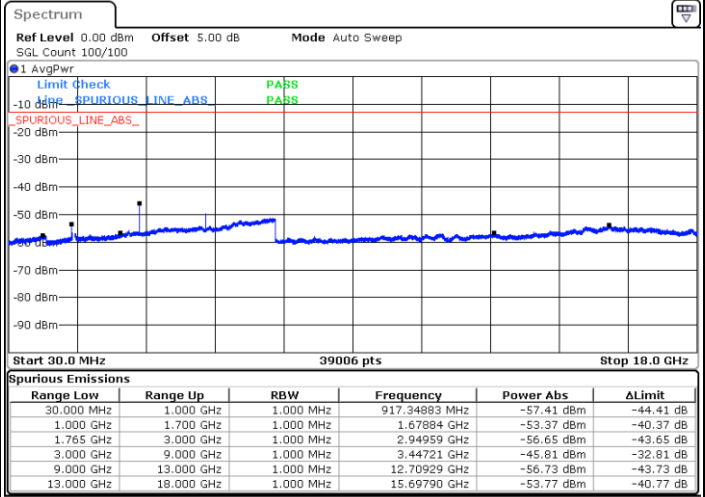
LTE Band 4 / 20MHz

Lowest Channel / QPSK

Middle Channel / QPSK

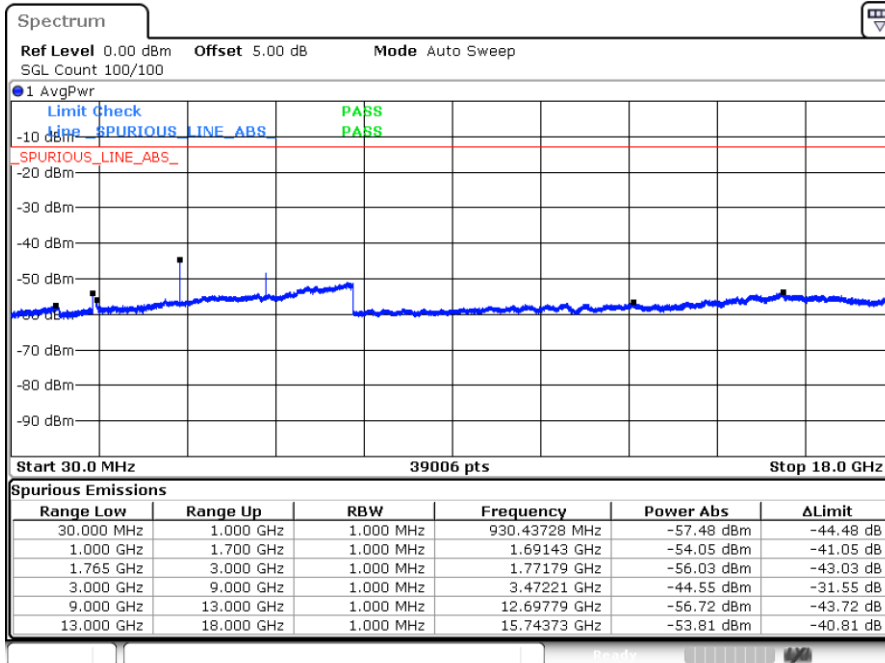


Date: 5.AUG.2022 19:41:35



Date: 5.AUG.2022 19:43:23

Highest Channel / QPSK



Date: 5.AUG.2022 19:45:18



Frequency Stability

Test Conditions		LTE Band 4 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0021	PASS
40	Normal Voltage	0.0014	
30	Normal Voltage	0.0012	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0011	
0	Normal Voltage	0.0017	
-10	Normal Voltage	0.0019	
-20	Normal Voltage	0.0031	
-30	Normal Voltage	0.0027	
20	Maximum Voltage	0.0024	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0016	

Note:

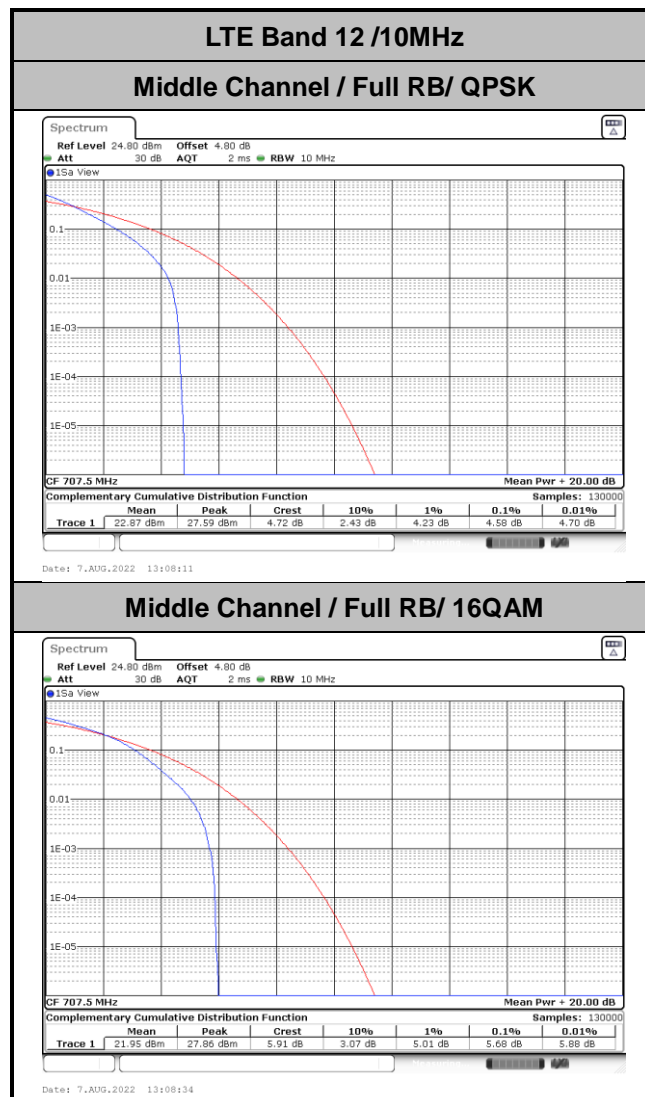
1. Normal Voltage =3.89 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.52 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

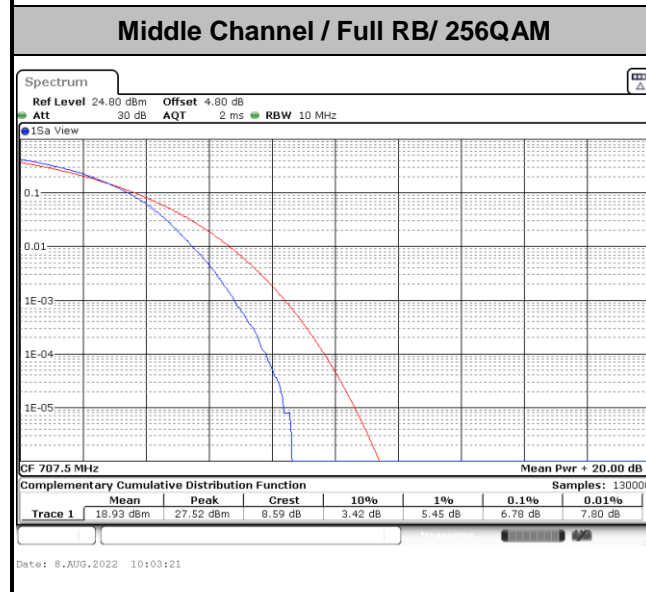
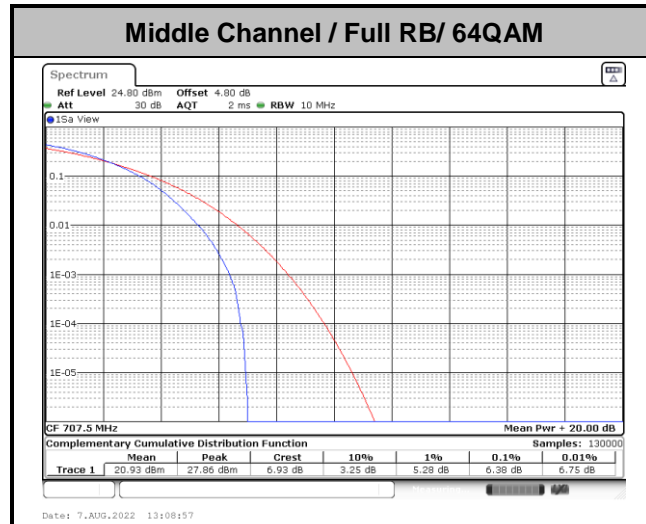


# LTE Band 12

## Peak-to-Average Ratio

Mode	LTE Band 12 / 10MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	FULL RB	Result
Middle CH	4.58	5.68	6.38	6.78	PASS

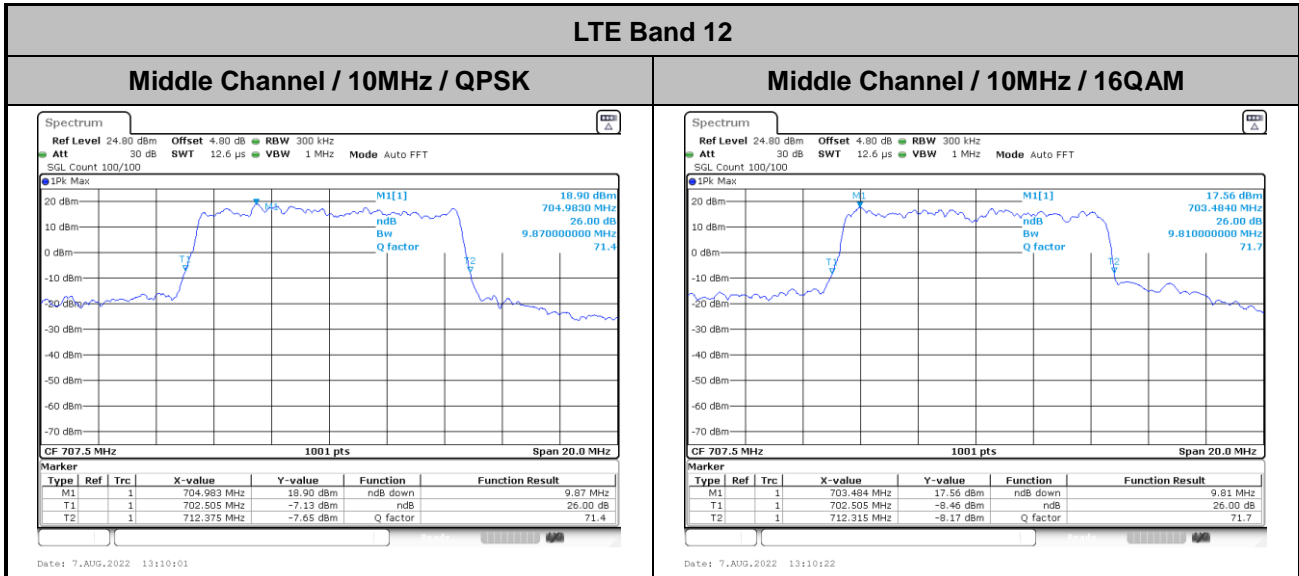






## 26dB Bandwidth

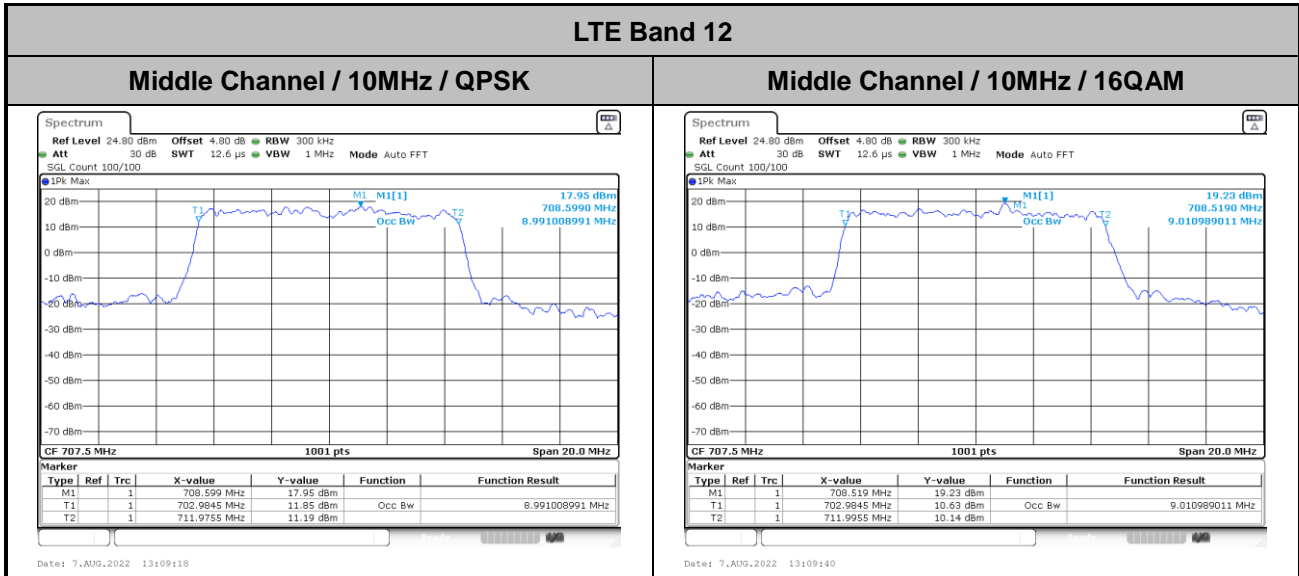
<b>Mode</b>	<b>LTE Band12 : 26dB BW(MHz)</b>	
<b>BW</b>	<b>10MHz</b>	
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>
<b>Middle CH</b>	9.87	9.81





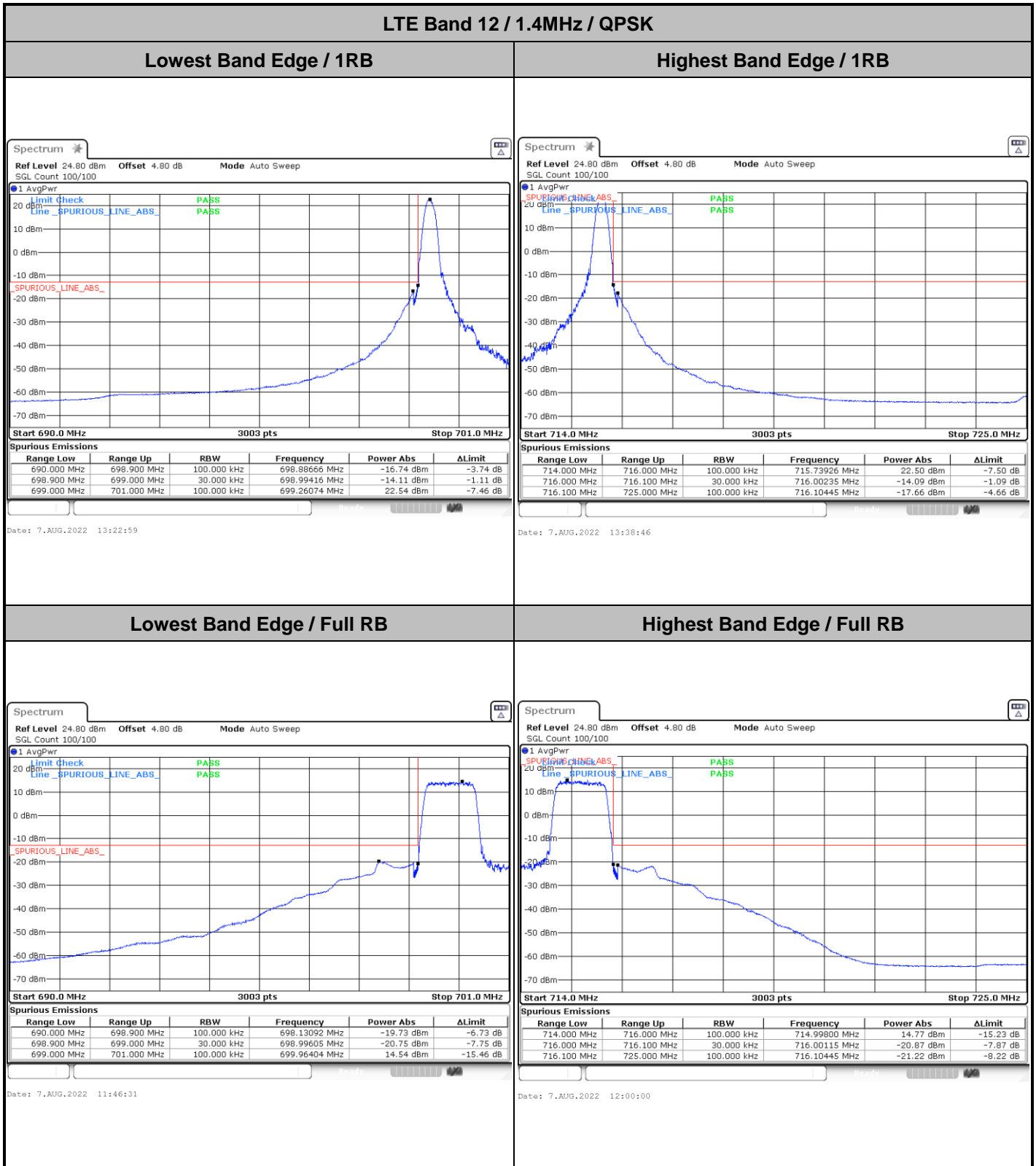
# Occupied Bandwidth

Mode	LTE Band 12 : 99%OBW(MHz)	
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	8.99	9.01





# Conducted Band Edge



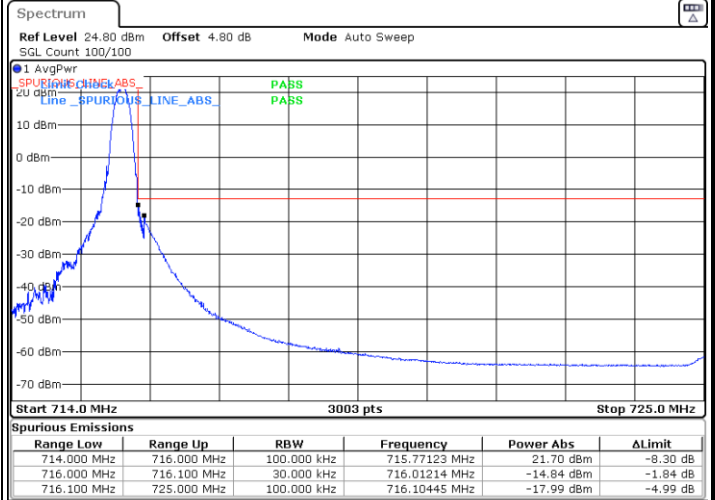
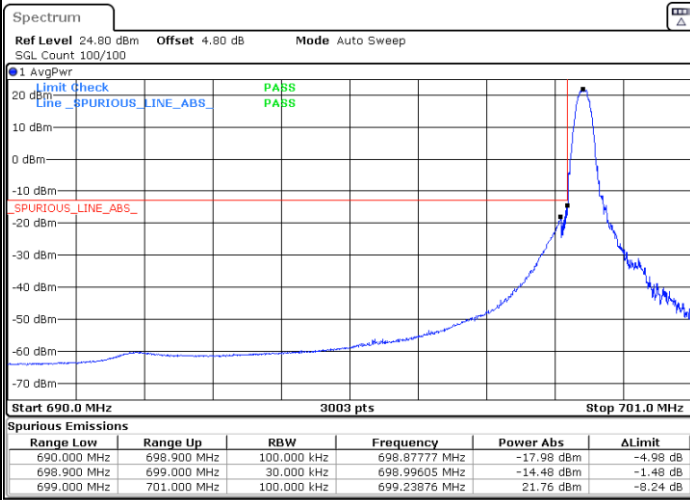




LTE Band 12 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

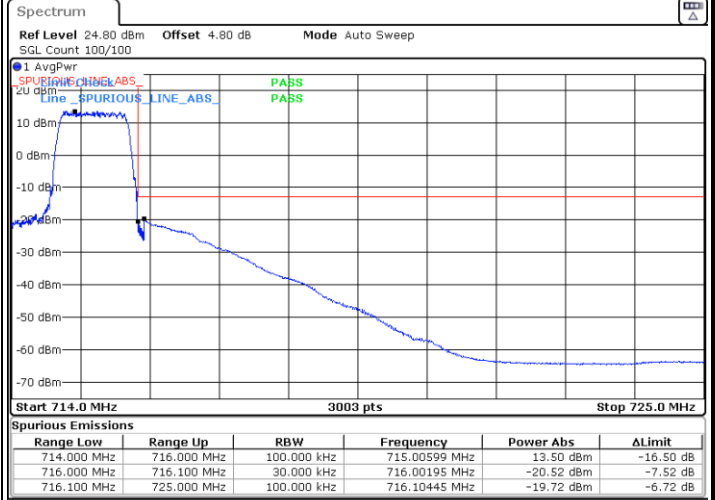
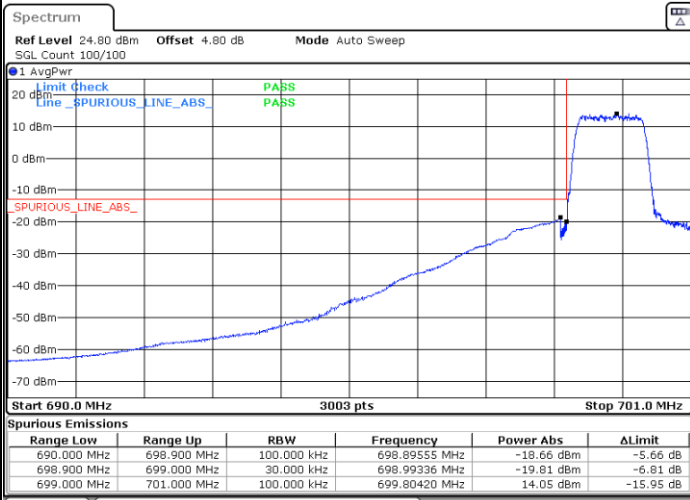


Date: 7.AUG.2022 11:39:47

Date: 7.AUG.2022 11:53:17

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



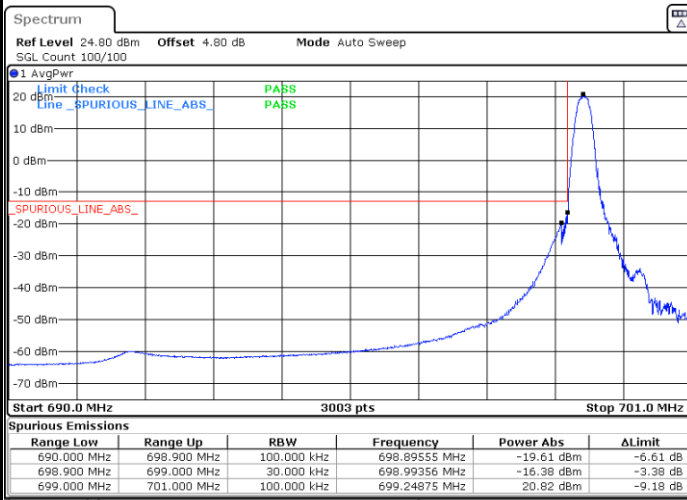
Date: 7.AUG.2022 11:44:50

Date: 7.AUG.2022 11:58:19



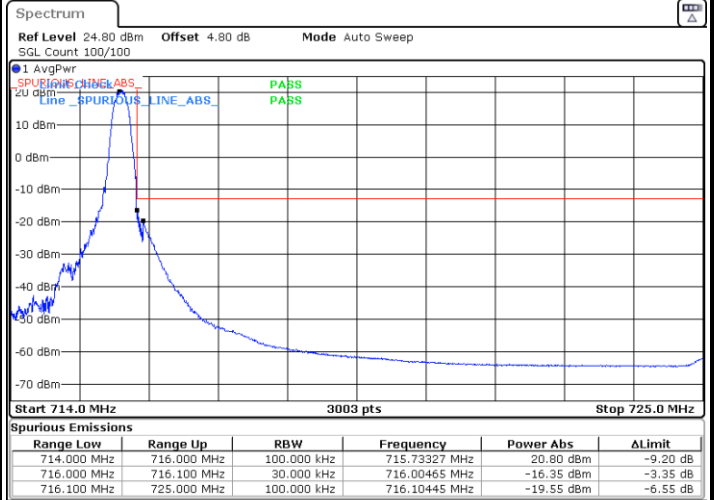
LTE Band 12 / 1.4MHz / 64QAM

Lowest Band Edge / 1 RB



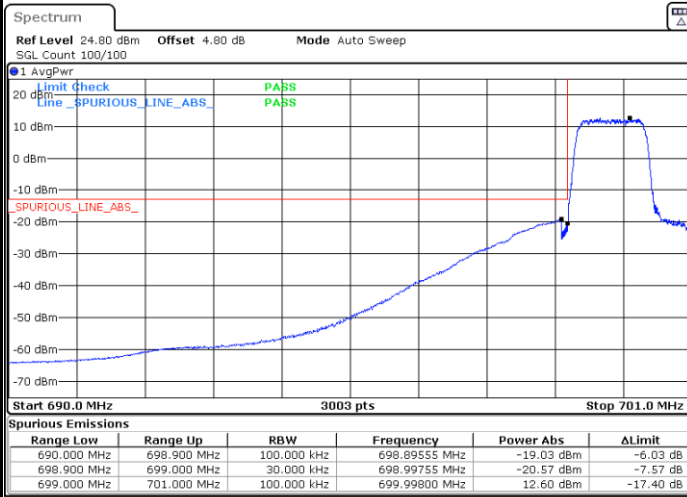
Date: 7.AUG.2022 11:41:28

Highest Band Edge / 1 RB



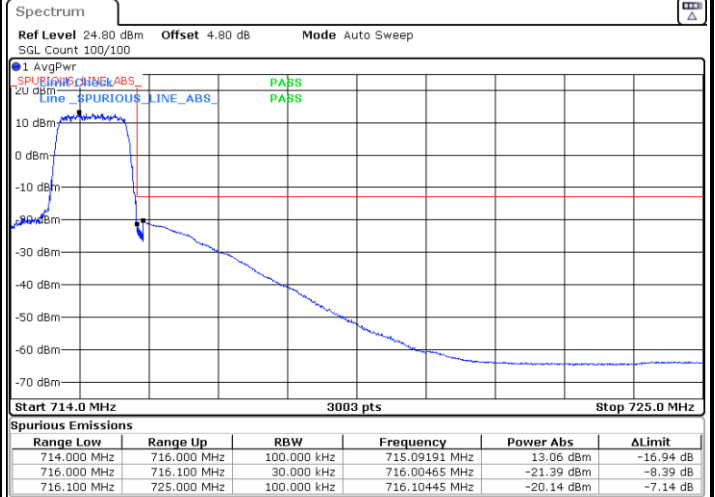
Date: 7.AUG.2022 11:54:58

Lowest Band Edge / Full RB



Date: 7.AUG.2022 11:43:09

Highest Band Edge / Full RB



Date: 7.AUG.2022 11:56:39



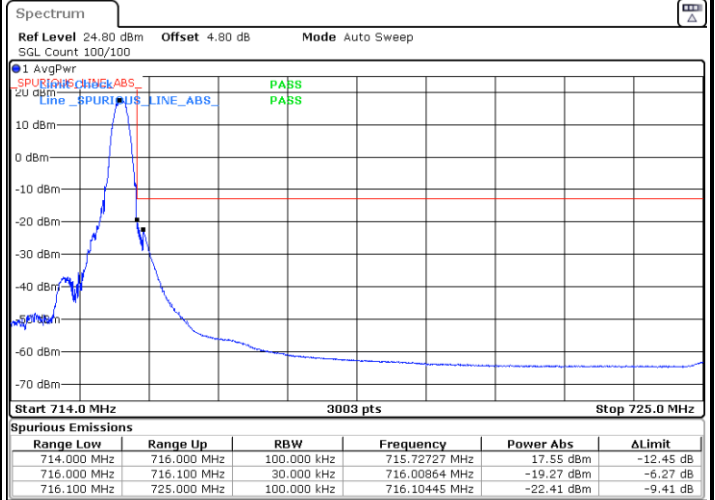
LTE Band 12 / 1.4MHz / 256QAM

Lowest Band Edge / 1 RB



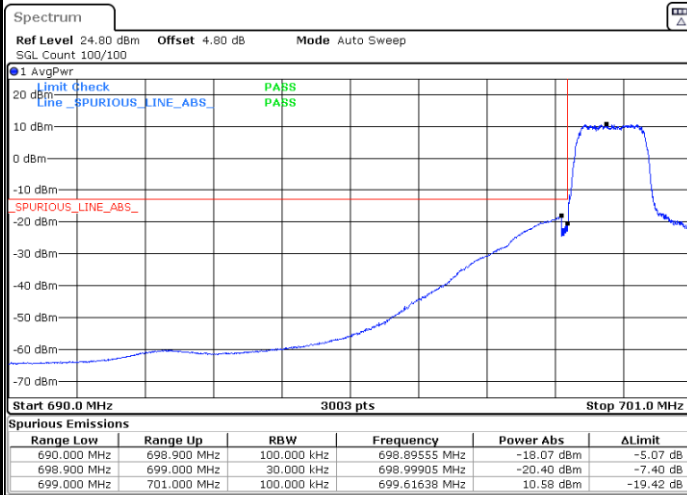
Date: 8.AUG.2022 09:35:14

Highest Band Edge / 1 RB



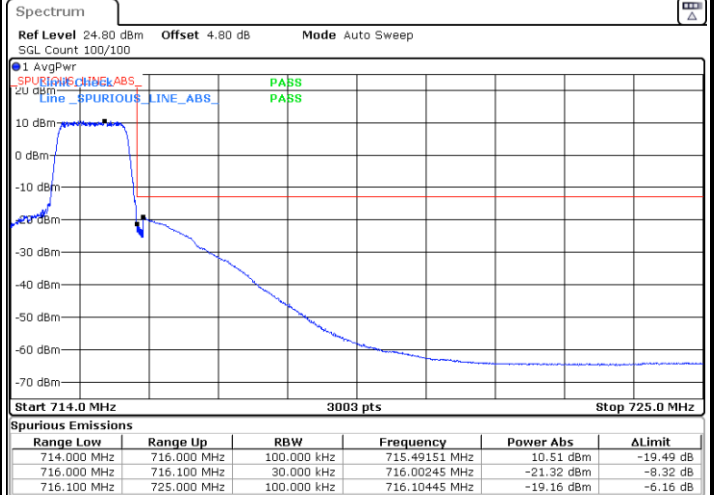
Date: 8.AUG.2022 09:40:08

Lowest Band Edge / Full RB



Date: 8.AUG.2022 09:37:47

Highest Band Edge / Full RB

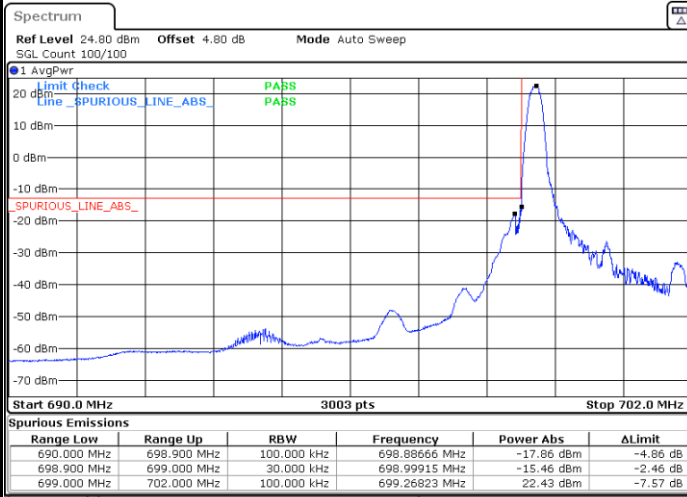


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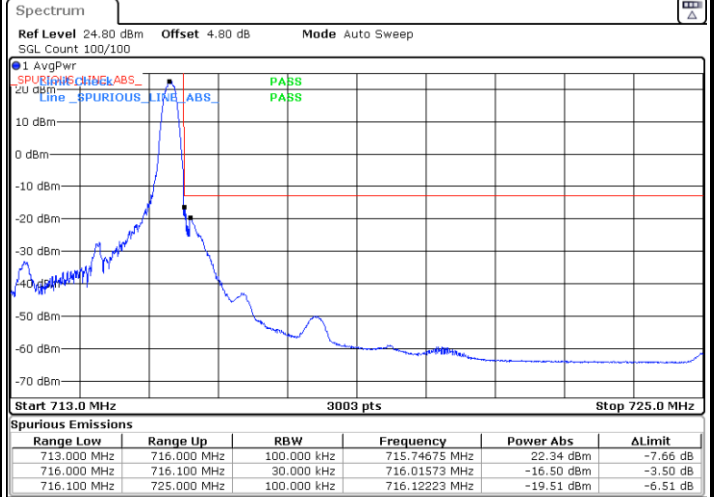


LTE Band 12 / 3MHz / QPSK

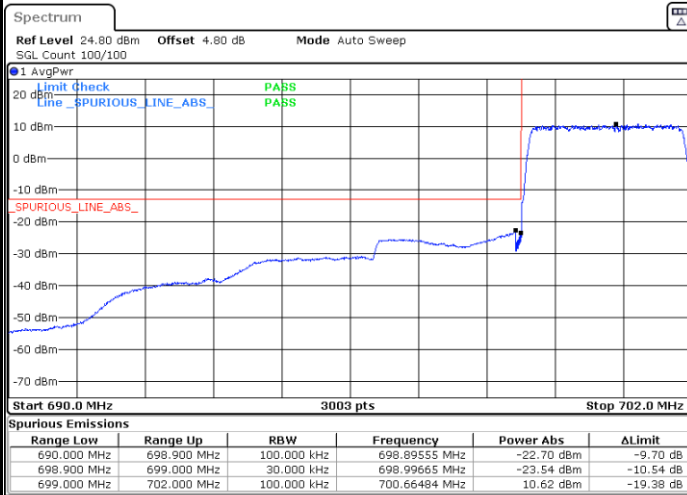
Lowest Band Edge / 1RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

