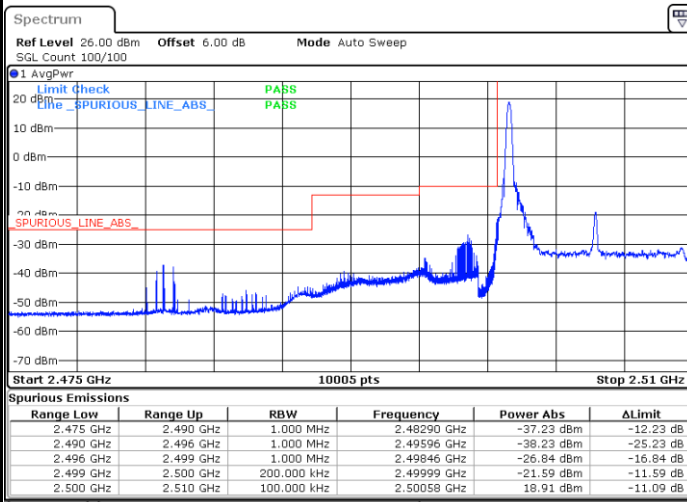




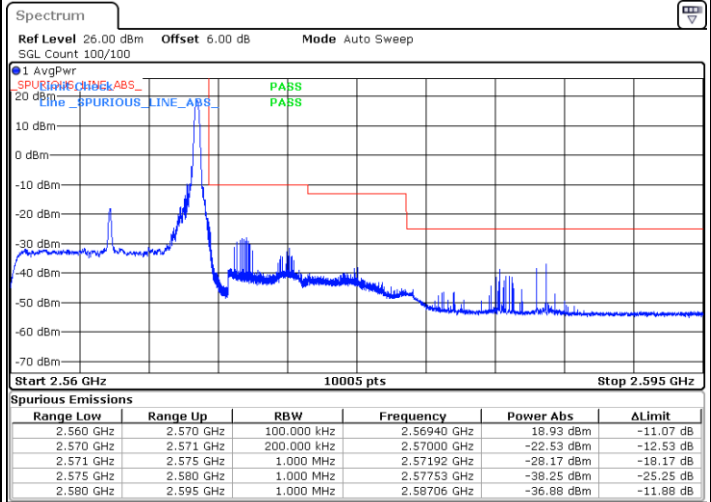
LTE Band 7 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



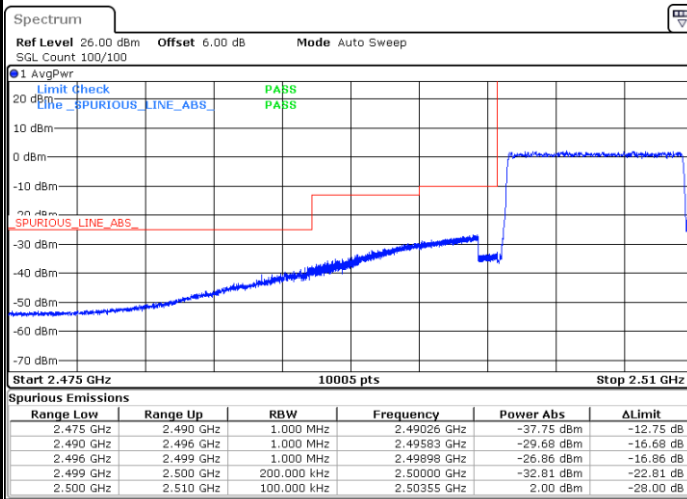
Date: 16 APR 2021 17:56:13

Highest Band Edge / 1 RB



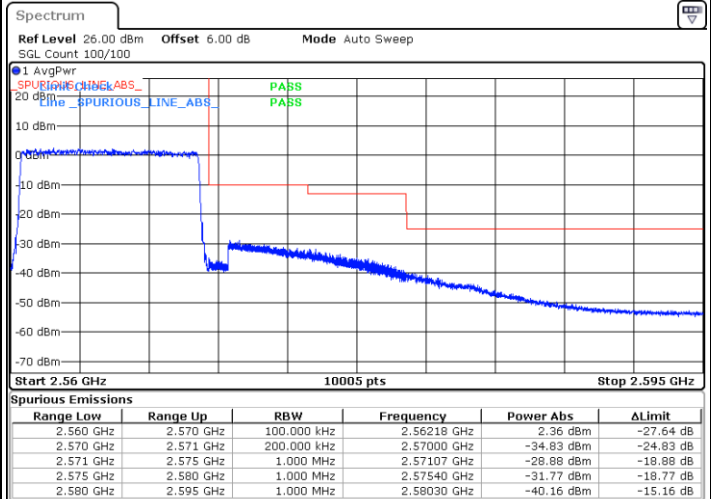
Date: 16 APR 2021 18:01:53

Lowest Band Edge / Full RB



Date: 16 APR 2021 17:57:21

Highest Band Edge / Full RB

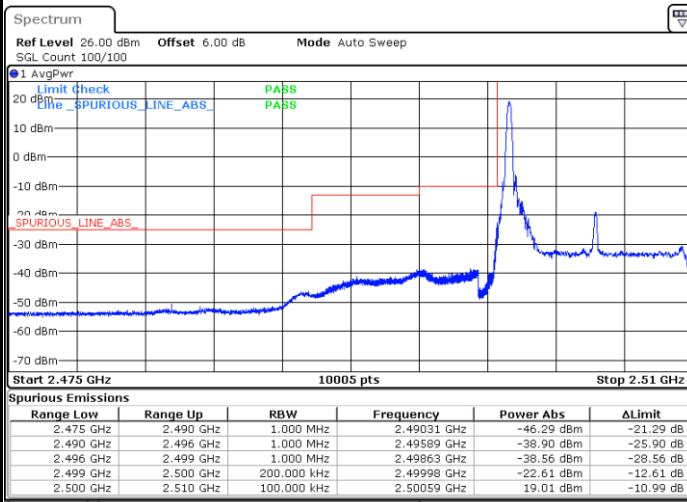


Date: 16 APR 2021 18:00:45



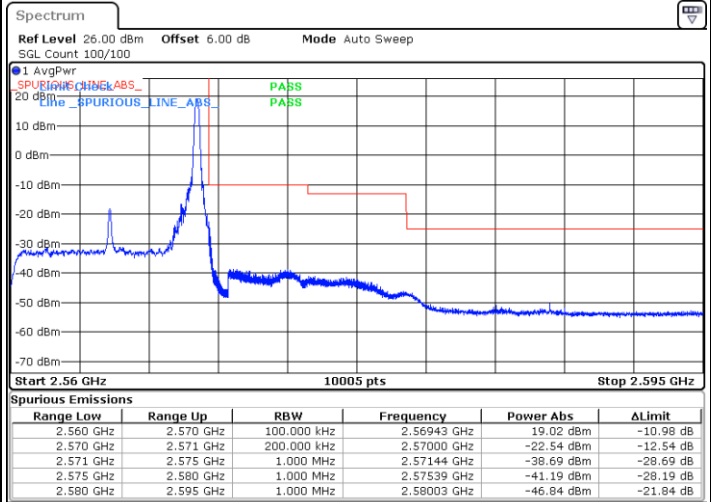
LTE Band 7 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



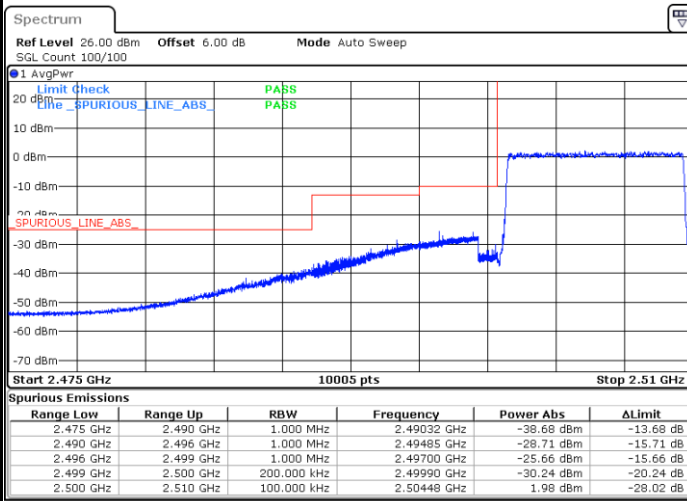
Date: 16 APR 2021 18:52:57

Highest Band Edge / 1 RB



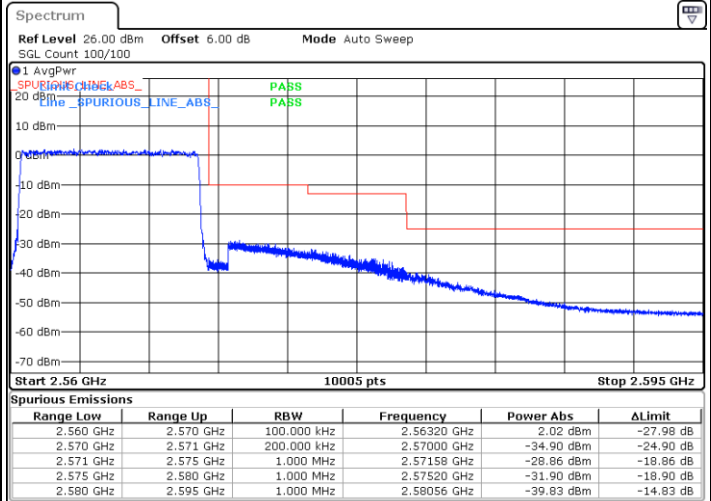
Date: 16 APR 2021 18:55:13

Lowest Band Edge / Full RB



Date: 16 APR 2021 18:54:05

Highest Band Edge / Full RB

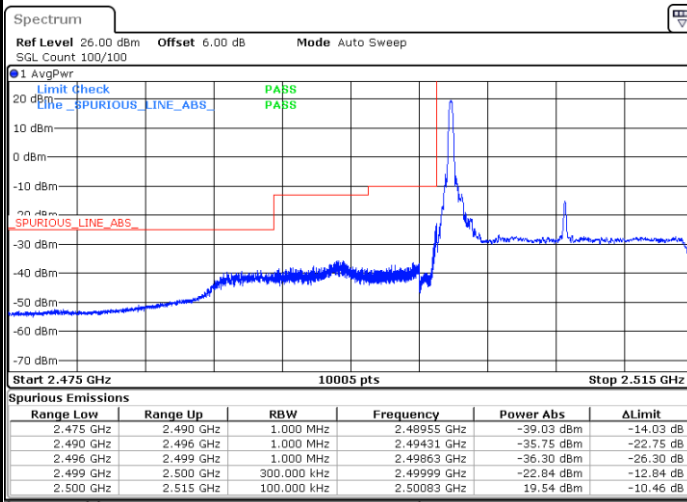


Date: 16 APR 2021 18:56:21



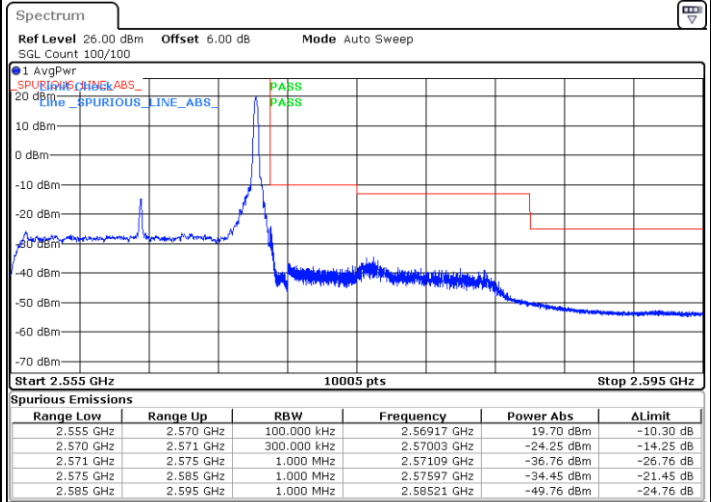
LTE Band 7 / 15MHz / QPSK

Lowest Band Edge / 1 RB



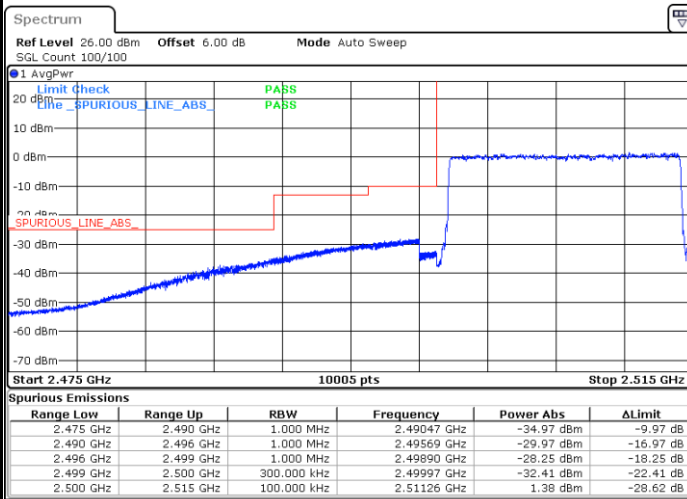
Date: 16 APR 2021 18:04:09

Highest Band Edge / 1 RB



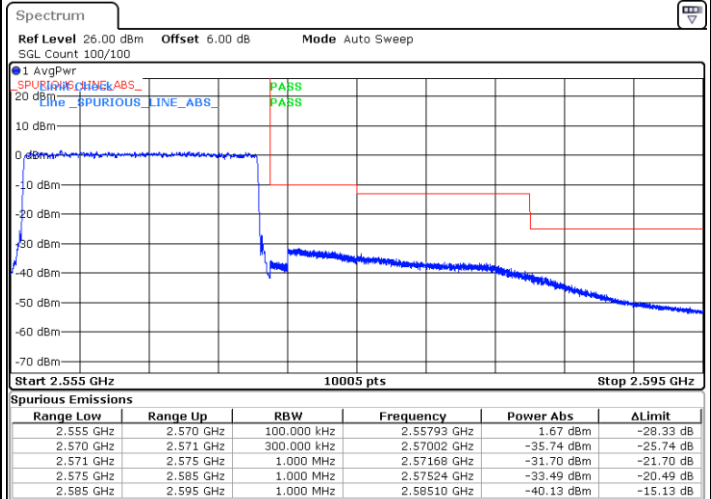
Date: 16 APR 2021 18:38:11

Lowest Band Edge / Full RB



Date: 16 APR 2021 18:07:34

Highest Band Edge / Full RB

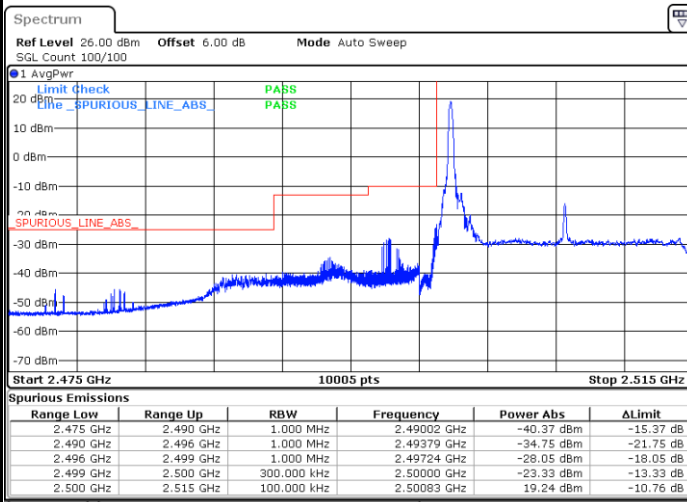


Date: 16 APR 2021 18:08:42



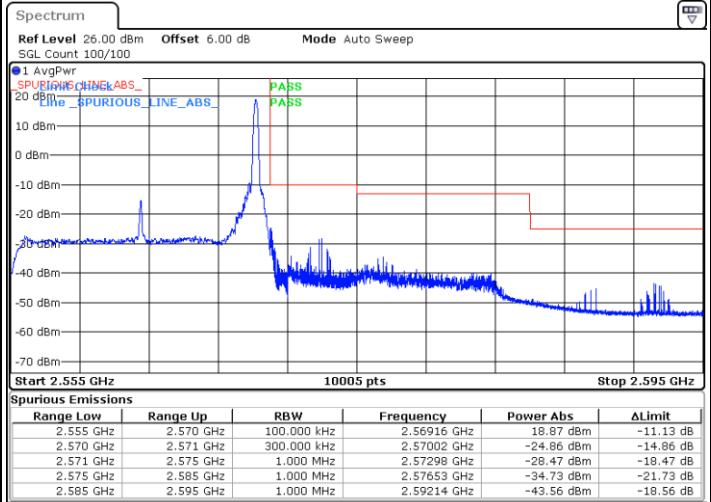
LTE Band 7 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



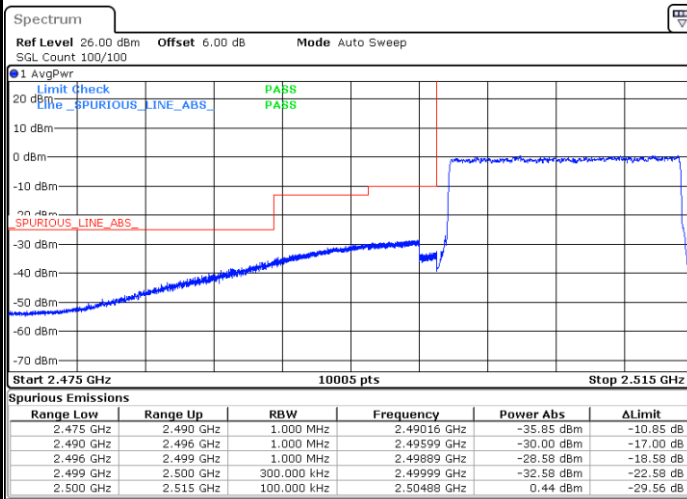
Date: 16 APR 2021 18:05:17

Highest Band Edge / 1 RB



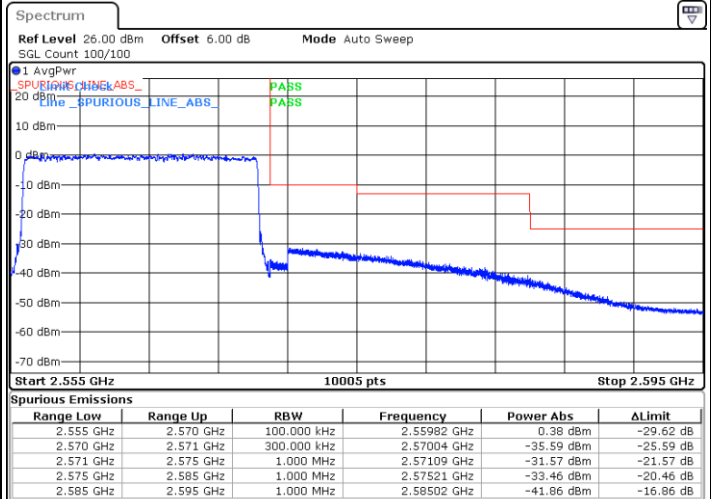
Date: 16 APR 2021 18:10:58

Lowest Band Edge / Full RB



Date: 16 APR 2021 18:06:26

Highest Band Edge / Full RB

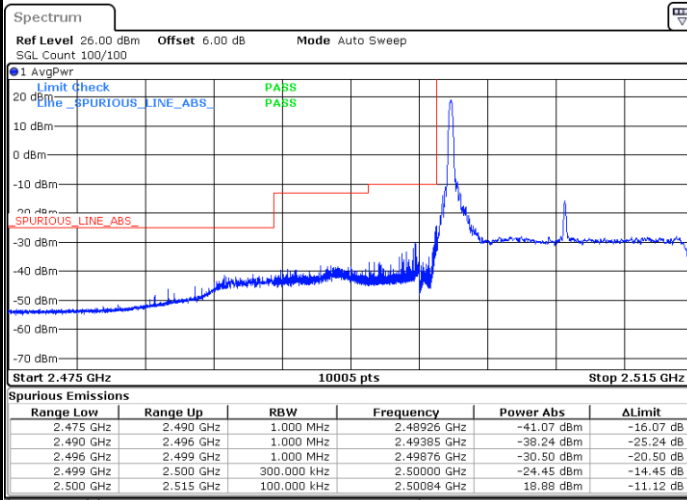


Date: 16 APR 2021 18:09:50



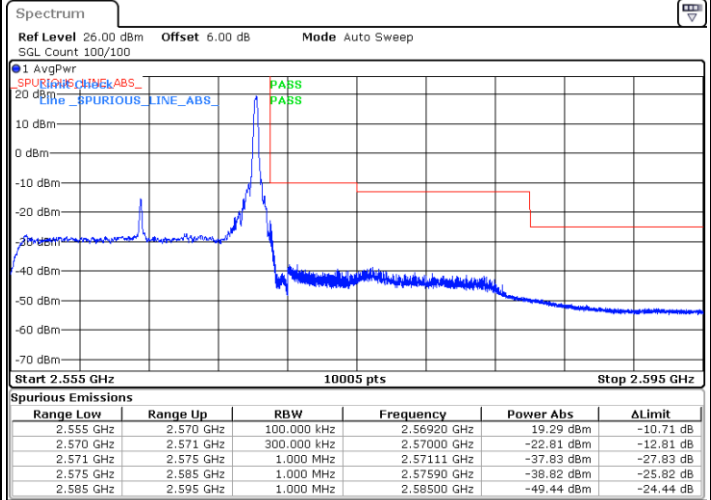
LTE Band 7 / 15MHz / 64QAM

Lowest Band Edge / 1 RB



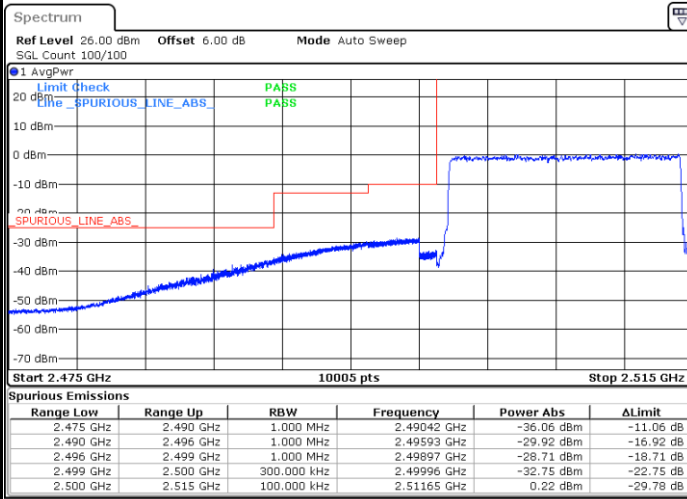
Date: 16 APR 2021 19:00:42

Highest Band Edge / 1 RB



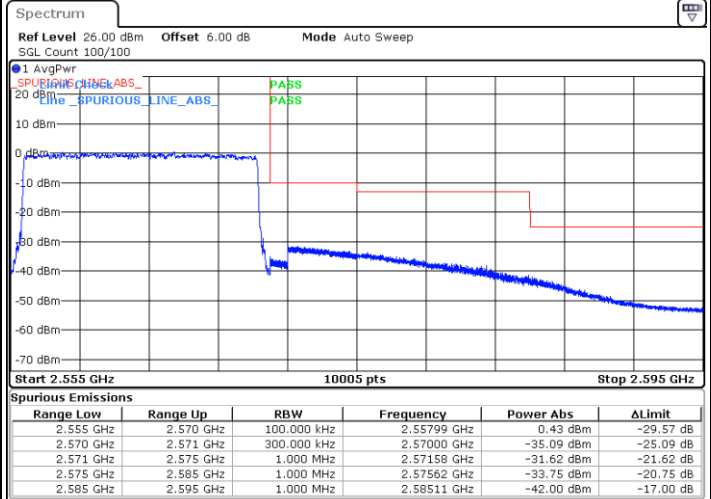
Date: 16 APR 2021 19:03:10

Lowest Band Edge / Full RB



Date: 16 APR 2021 18:57:29

Highest Band Edge / Full RB



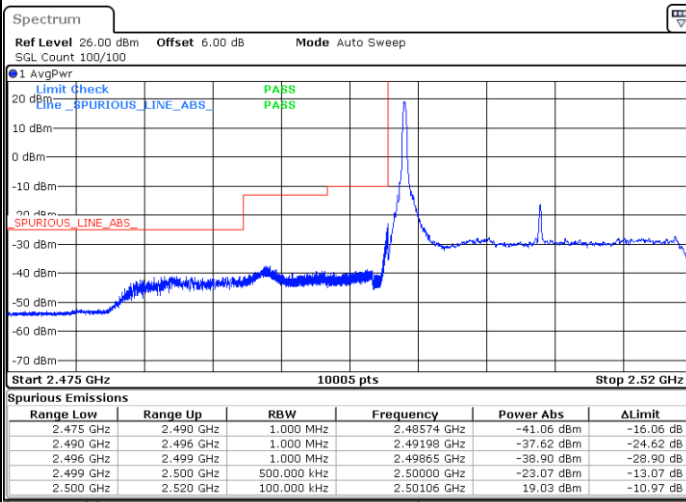
Date: 16 APR 2021 19:01:50



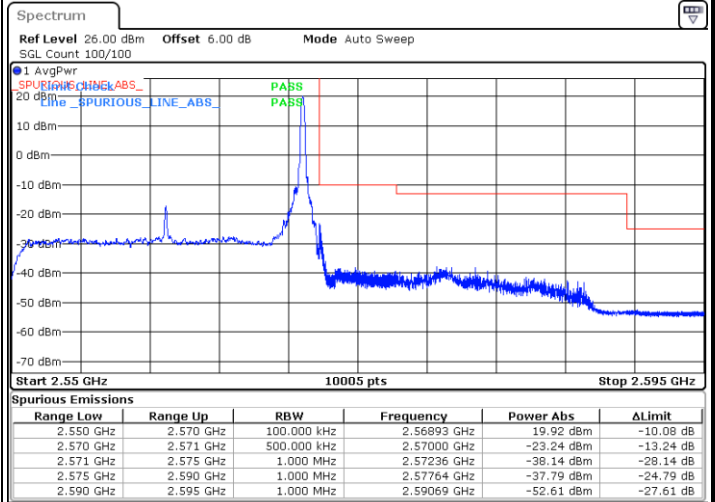
LTE Band 7 / 20MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



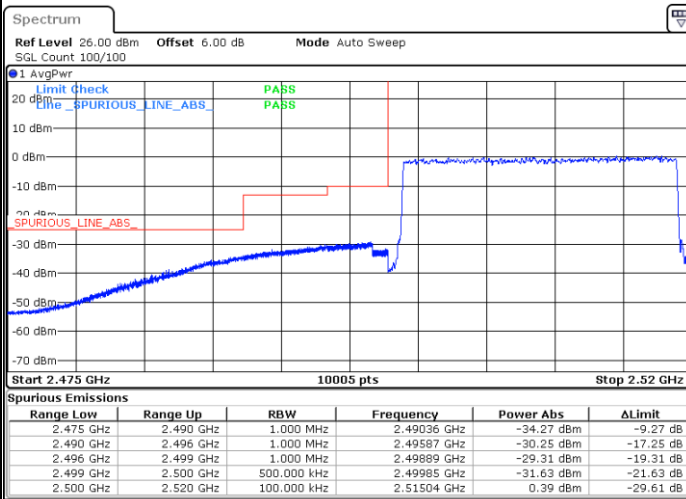
Date: 16 APR 2021 18:39:19



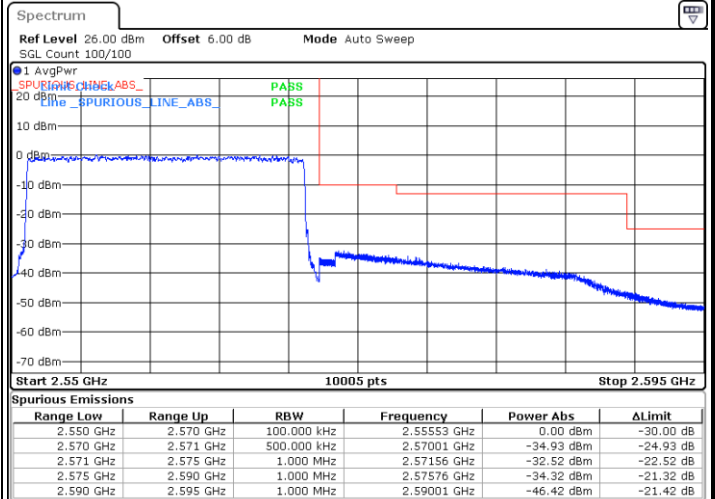
Date: 16 APR 2021 18:47:16

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 16 APR 2021 18:42:44



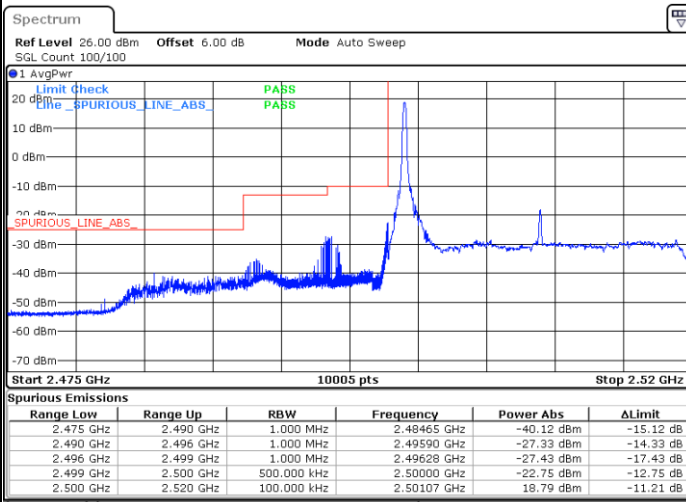
Date: 16 APR 2021 18:43:52



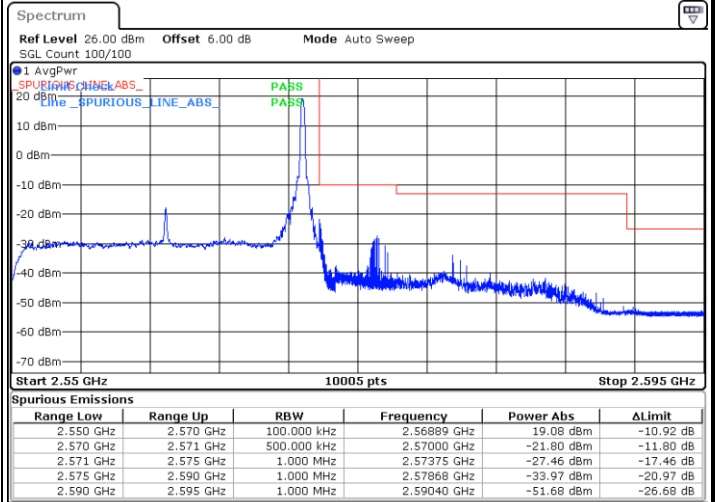
LTE Band 7 / 20MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



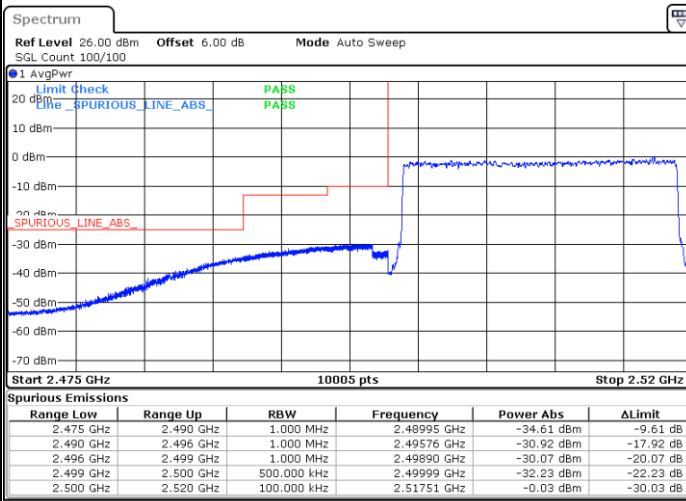
Date: 16 APR 2021 18:40:27



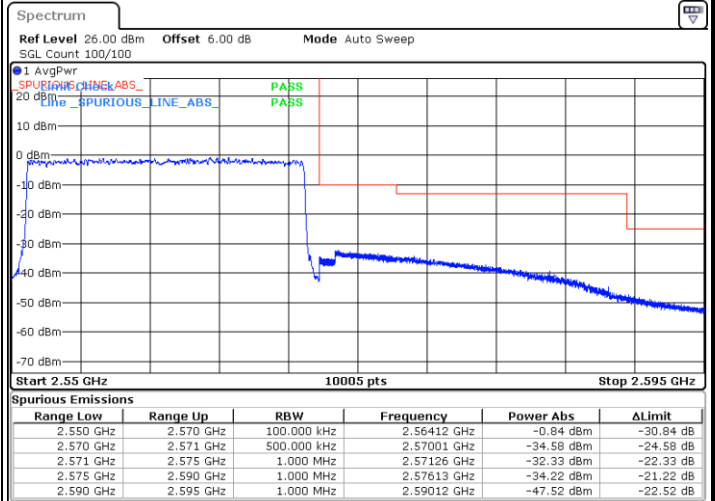
Date: 16 APR 2021 18:46:08

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 16 APR 2021 18:41:36

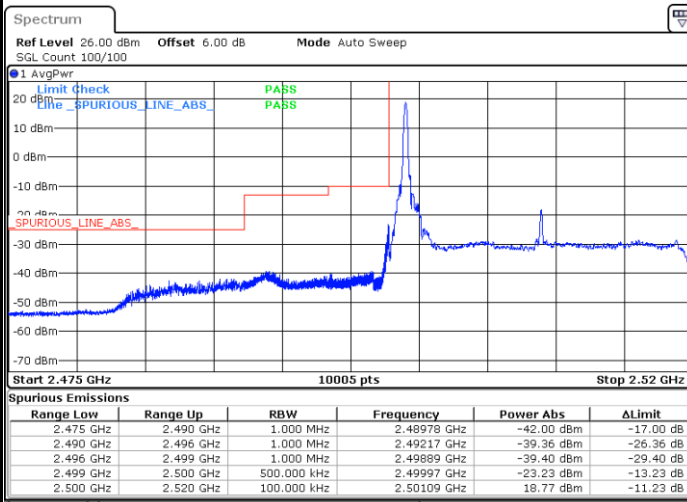


Date: 16 APR 2021 18:45:00



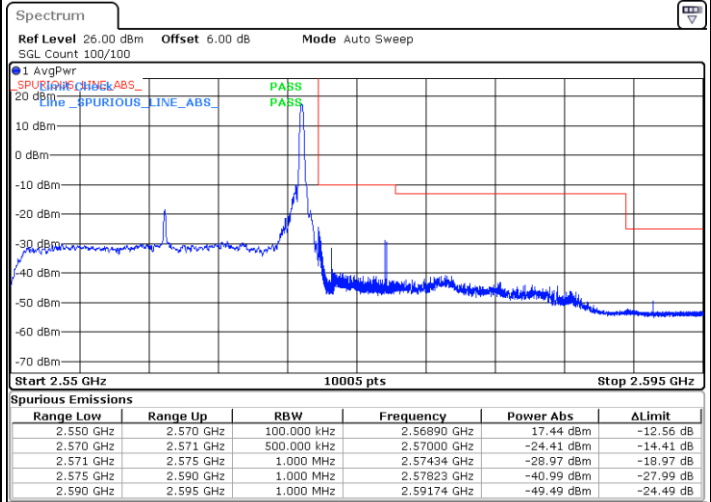
LTE Band 7 / 20MHz / 64QAM

Lowest Band Edge / 1 RB



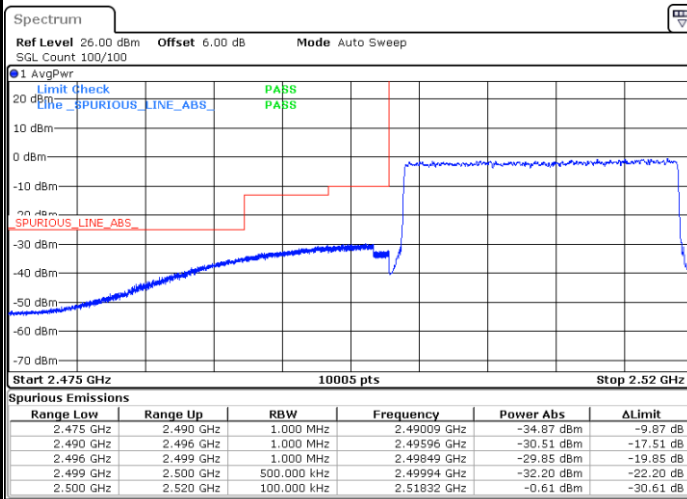
Date: 16 APR 2021 19:05:26

Highest Band Edge / 1 RB



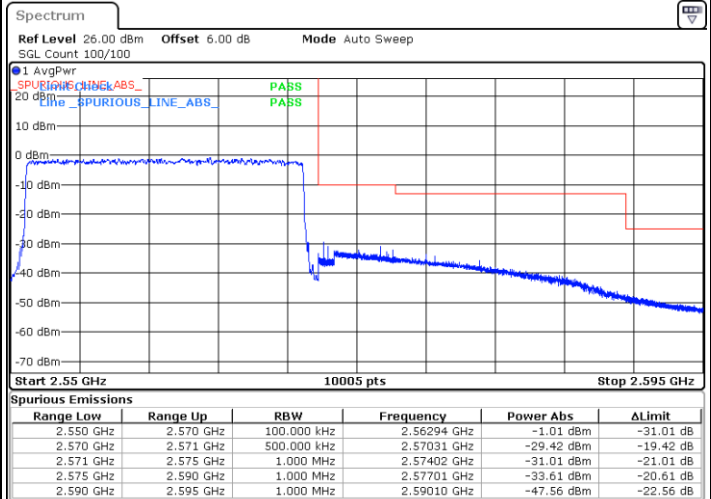
Date: 16 APR 2021 19:07:42

Lowest Band Edge / Full RB



Date: 16 APR 2021 19:04:18

Highest Band Edge / Full RB

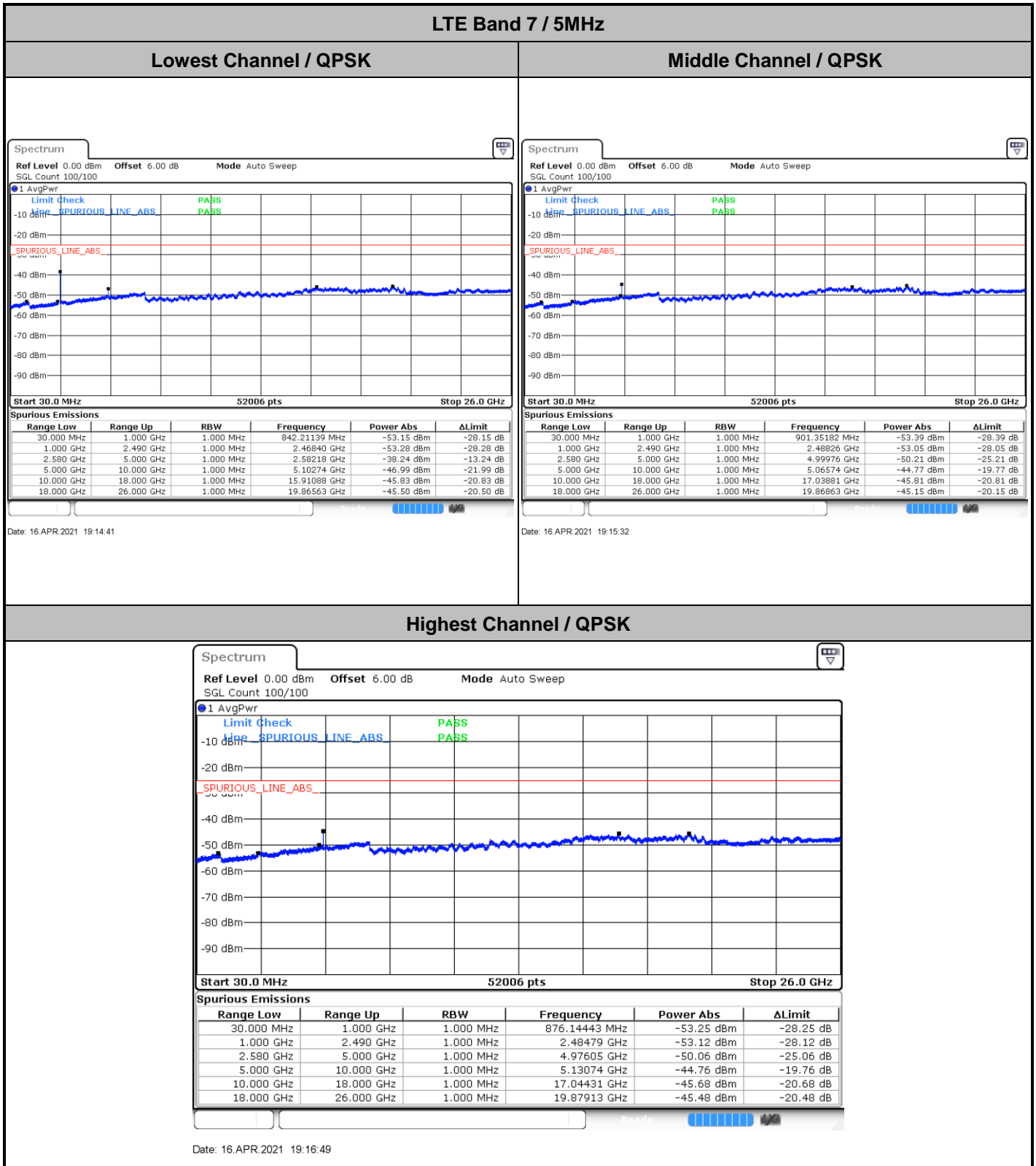


Date: 16 APR 2021 19:06:34





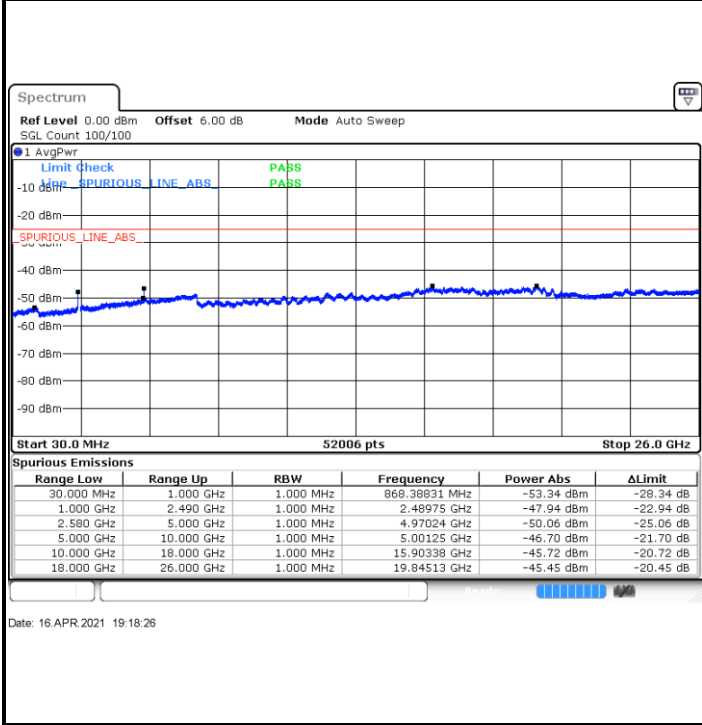
# Conducted Spurious Emission



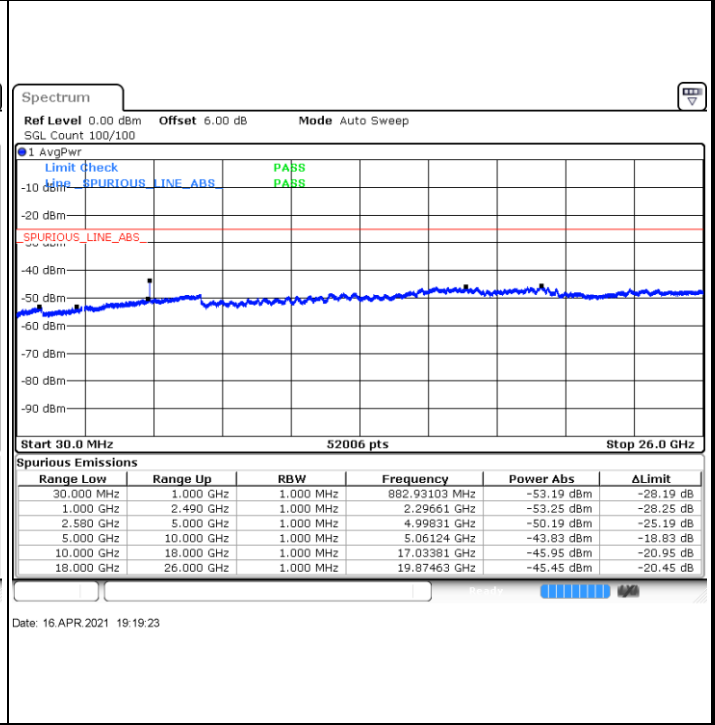


**LTE Band 7 / 10MHz**

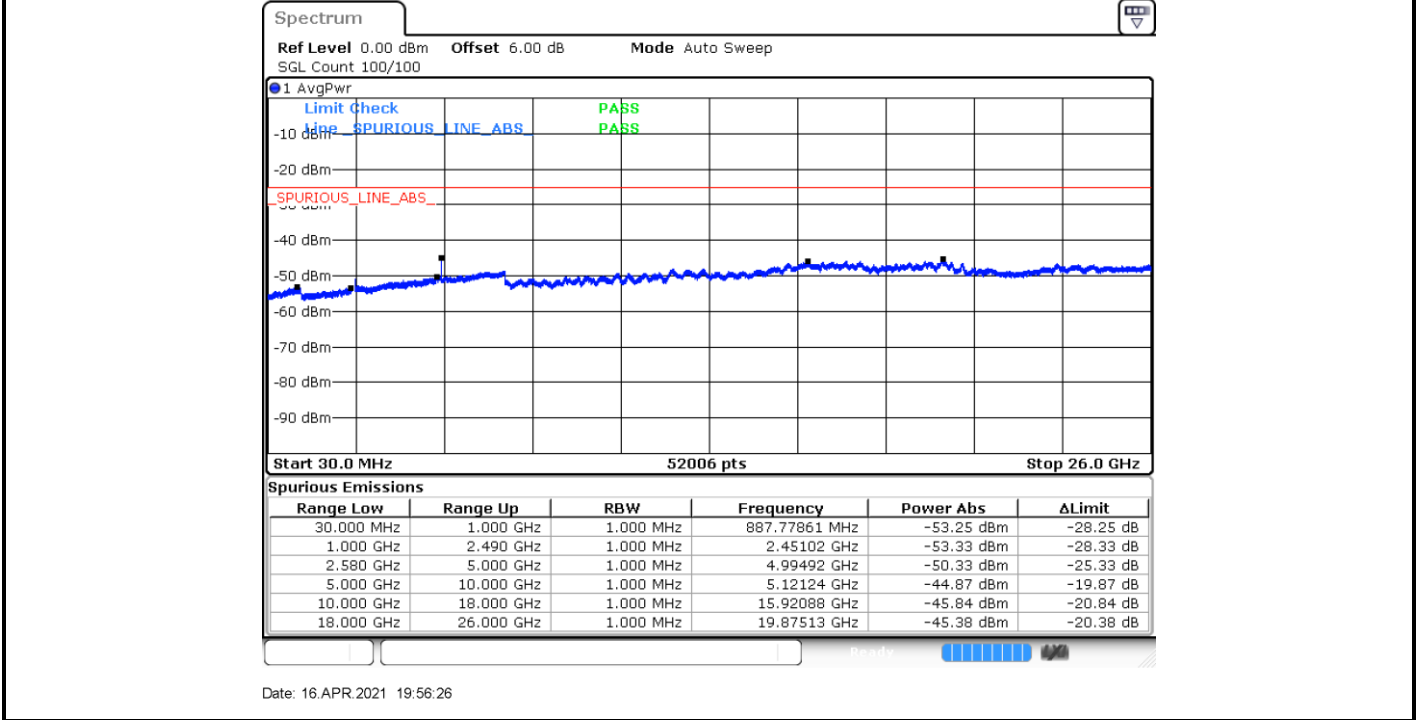
**Lowest Channel / QPSK**



**Middle Channel / QPSK**



**Highest Channel / QPSK**

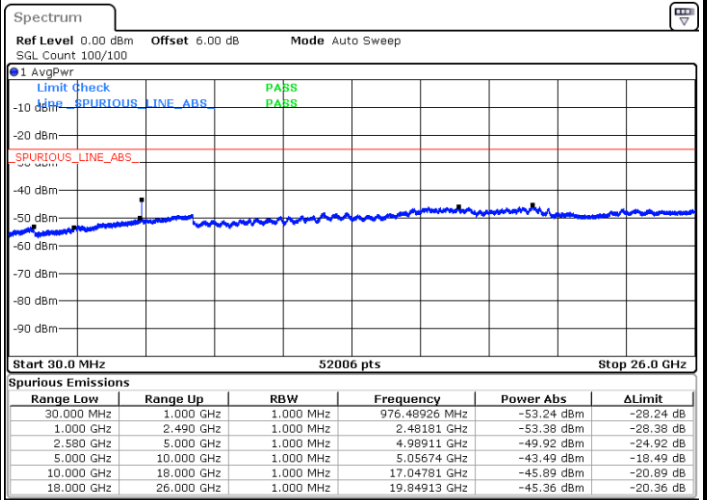
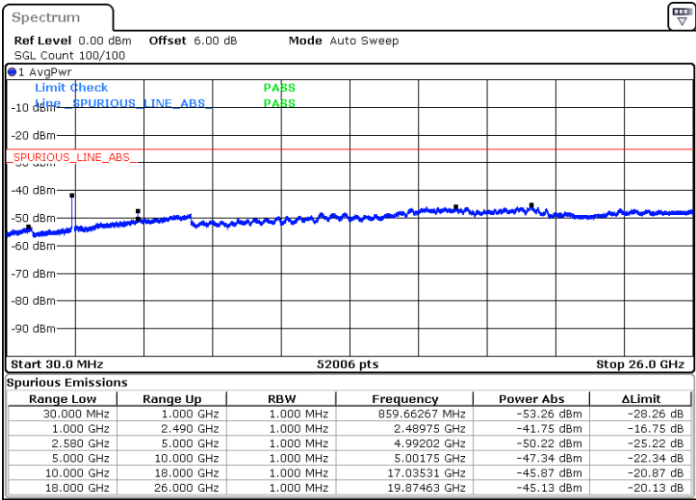




LTE Band 7 / 15MHz

Lowest Channel / QPSK

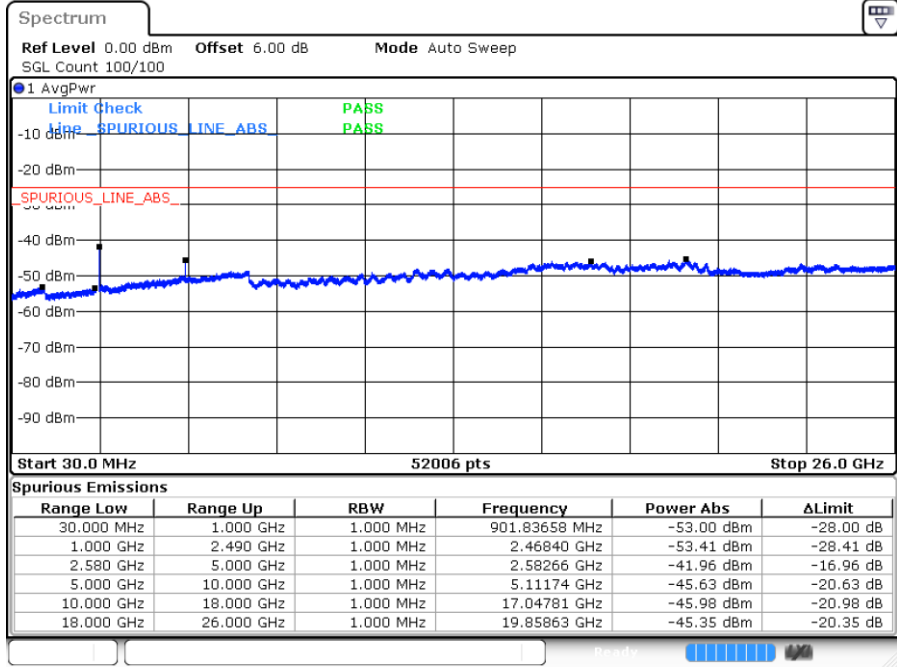
Middle Channel / QPSK



Date: 16 APR 2021 19:57:30

Date: 16 APR 2021 19:58:22

Highest Channel / QPSK



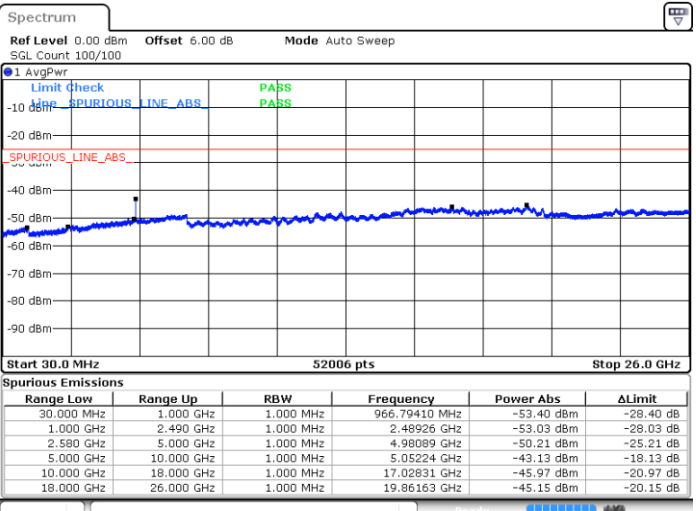
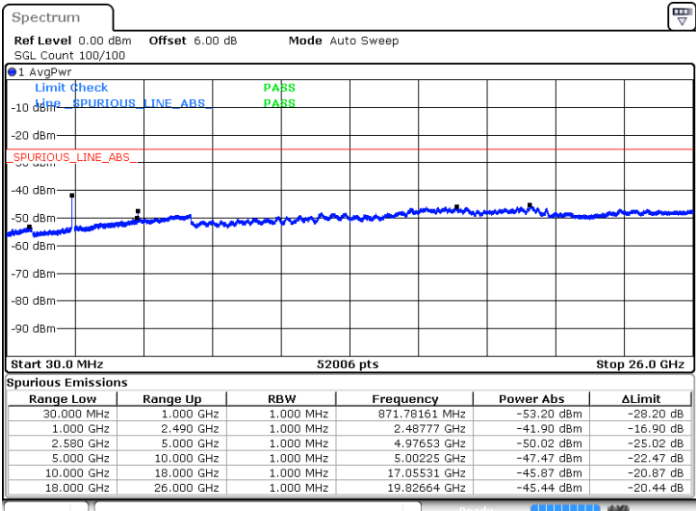
Date: 16 APR 2021 19:59:15



LTE Band 7 / 20MHz

Lowest Channel / QPSK

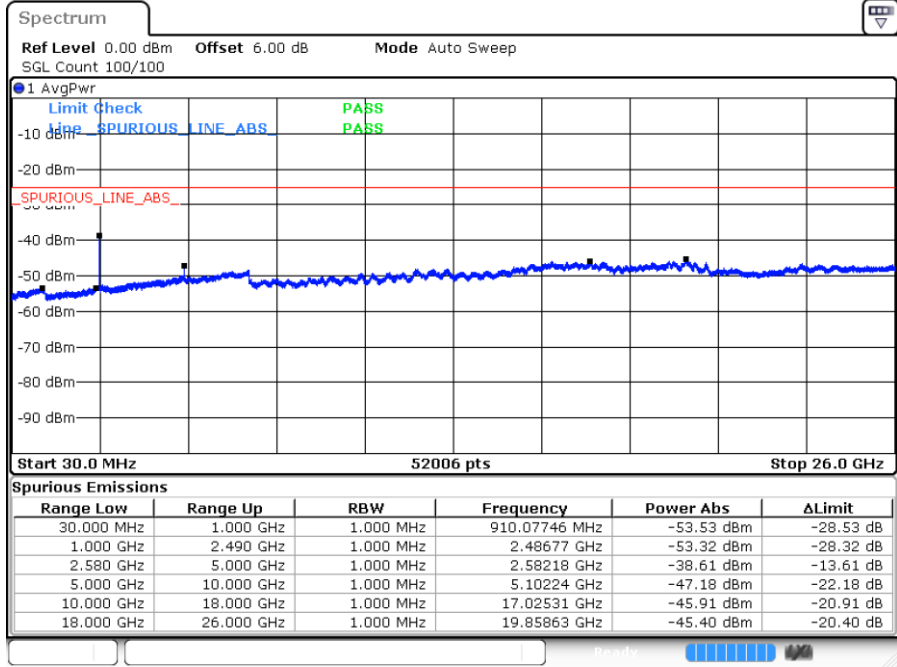
Middle Channel / QPSK



Date: 16 APR 2021 20:00:15

Date: 16 APR 2021 20:01:12

Highest Channel / QPSK



Date: 16 APR 2021 20:02:05



Frequency Stability

Test Conditions		LTE Band 7 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0023	PASS
40	Normal Voltage	0.0028	
30	Normal Voltage	0.0008	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0019	
0	Normal Voltage	0.0032	
-10	Normal Voltage	0.0002	
-20	Normal Voltage	0.0004	
-30	Normal Voltage	0.0020	
20	Maximum Voltage	0.0006	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0027	

Note:

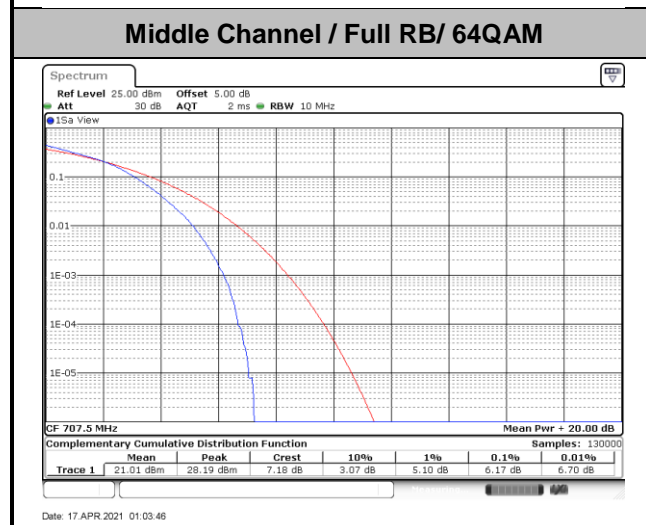
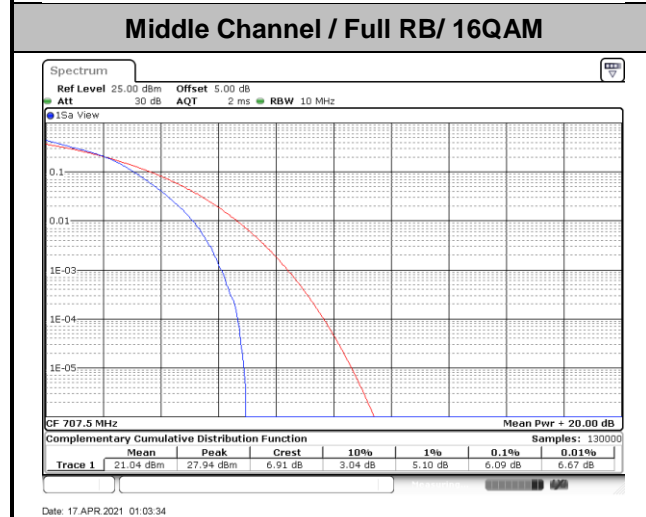
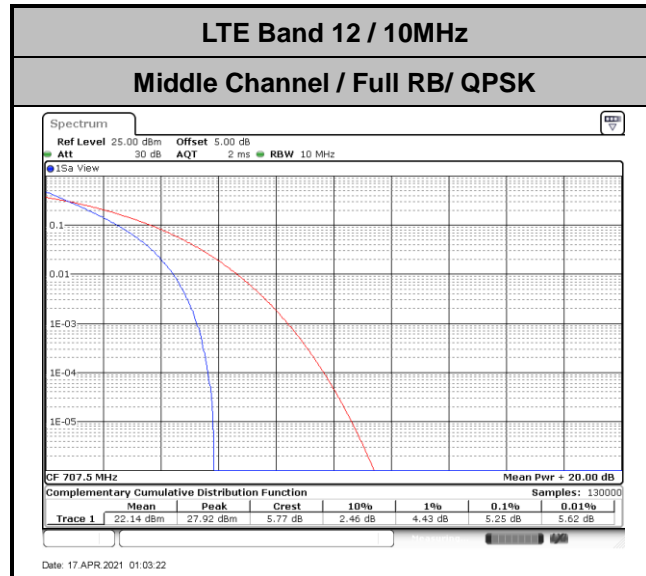
1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.35 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



## LTE Band 12

### Peak-to-Average Ratio

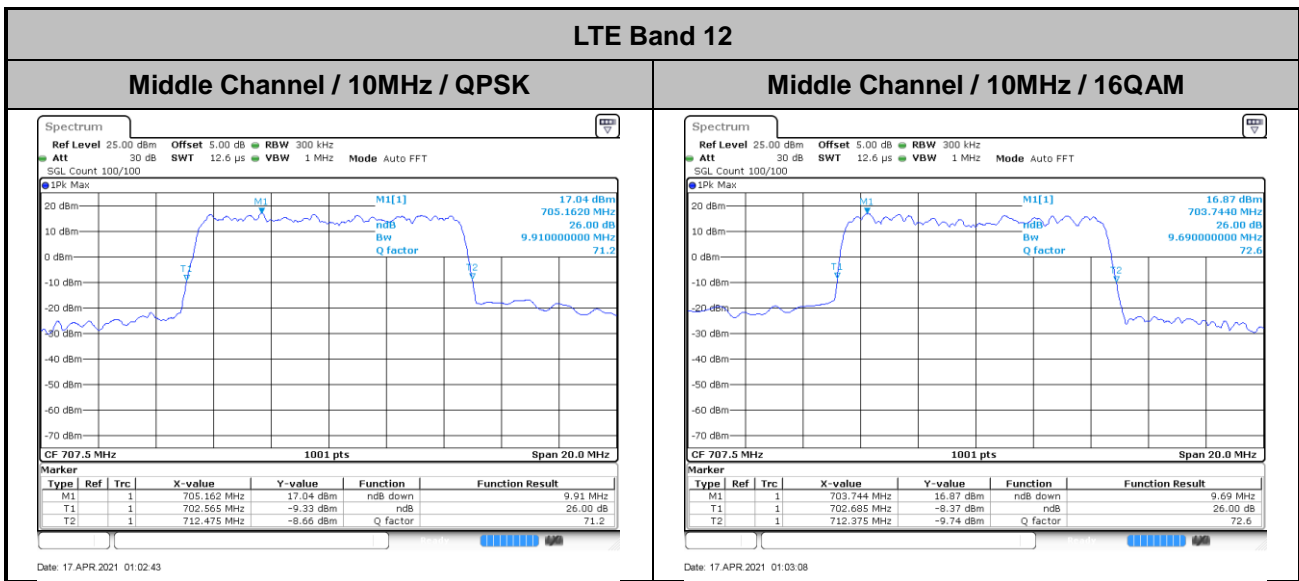
Mode	LTE Band 12 / 10MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	5.25	6.09	6.17	<b>PASS</b>





## 26dB Bandwidth

<b>Mode</b>	<b>LTE Band 12 : 26dB BW(MHz)</b>	
<b>BW</b>	<b>10MHz</b>	
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>
<b>Middle CH</b>	9.91	9.69

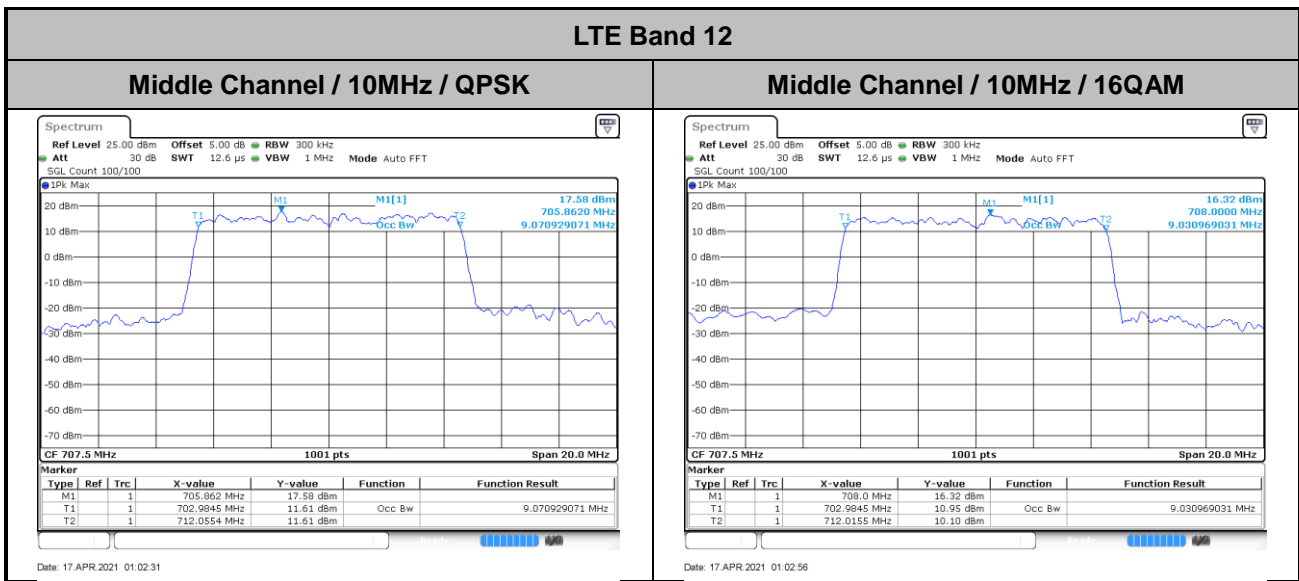






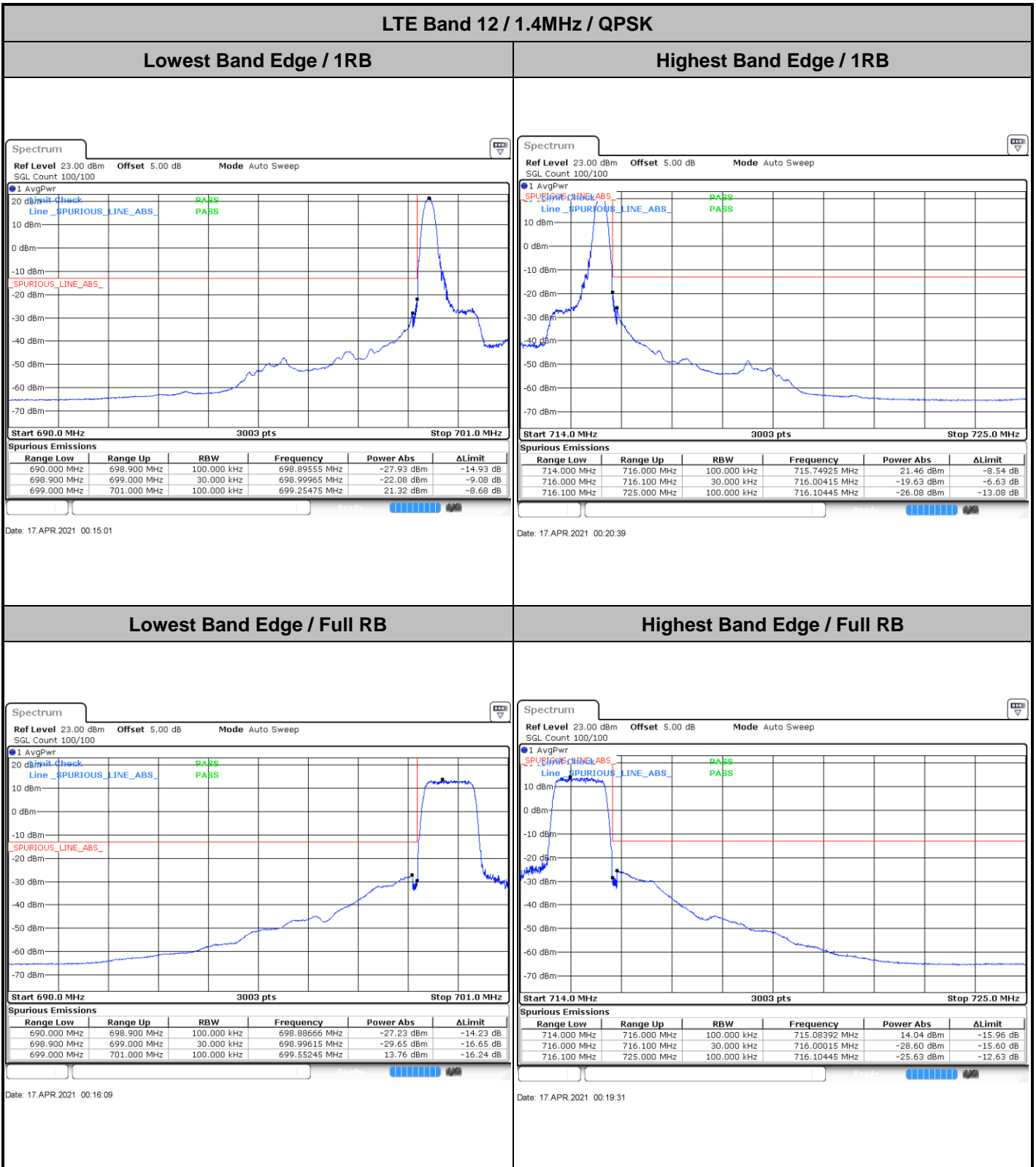
## Occupied Bandwidth

<b>Mode</b>	<b>LTE Band 12 : 99%OBW(MHz)</b>	
<b>BW</b>	<b>10MHz</b>	
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>
<b>Middle CH</b>	9.07	9.03



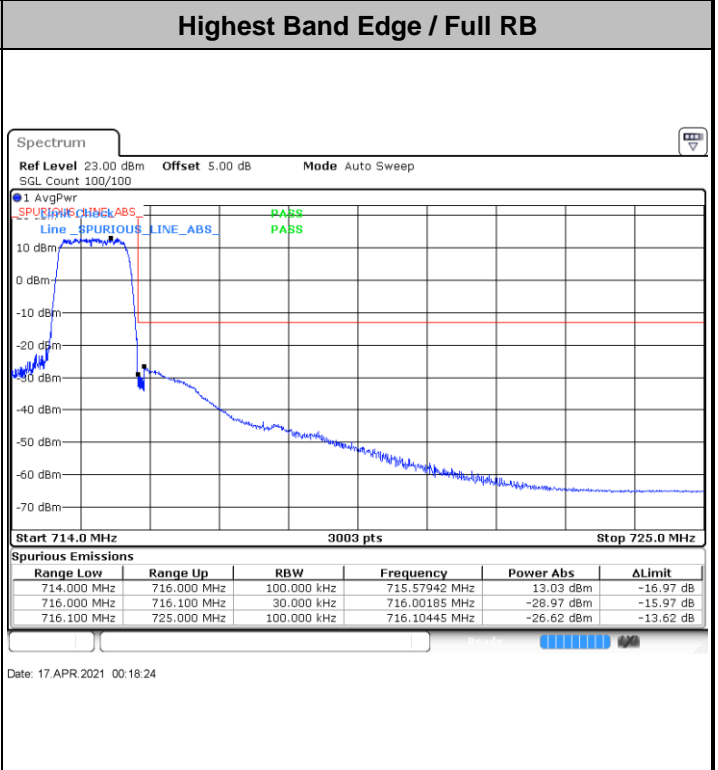
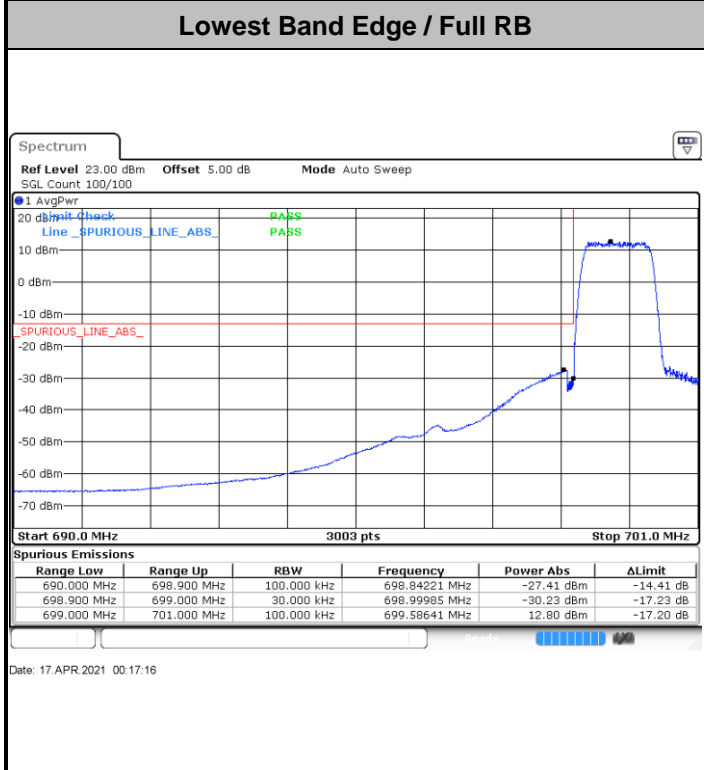
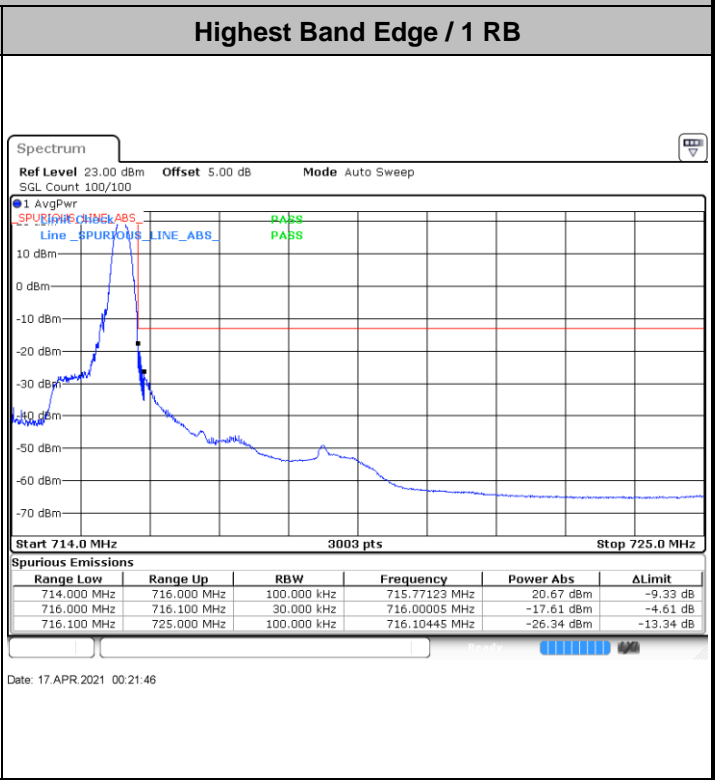
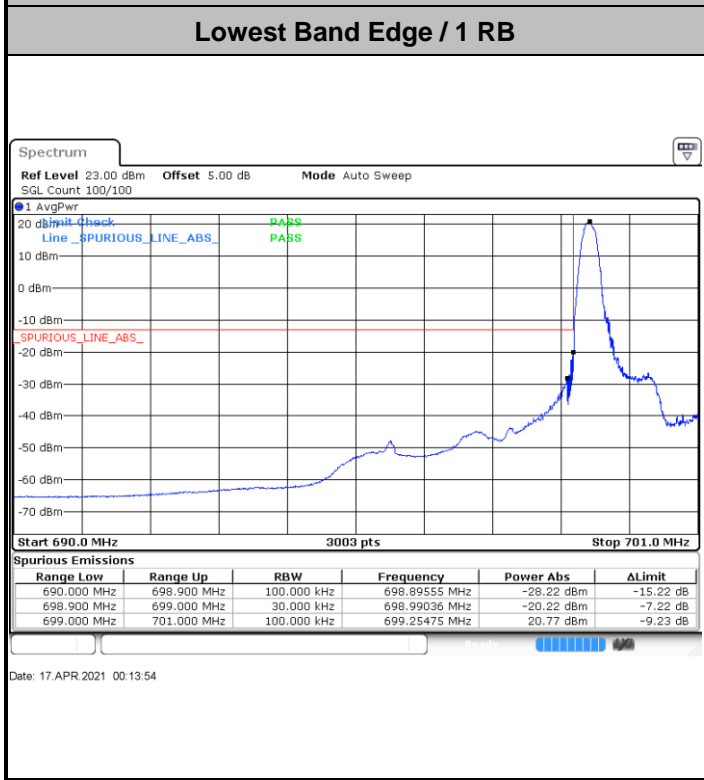


# Conducted Band Edge





**LTE Band 12 / 1.4MHz / 16QAM**





LTE Band 12 / 1.4MHz / 64QAM

Lowest Band Edge / 1 RB



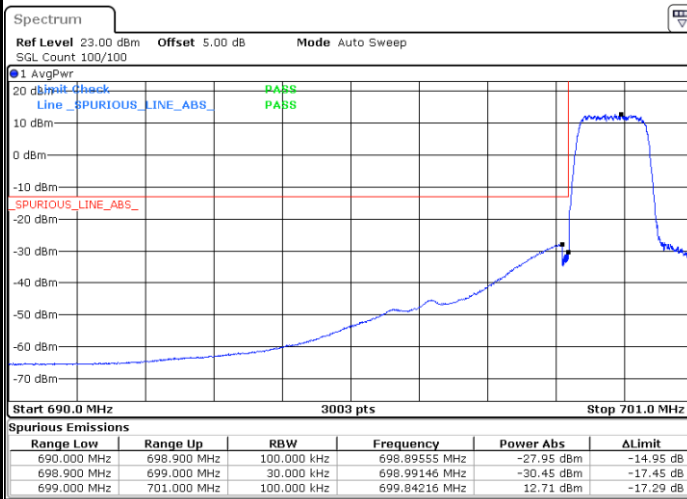
Date: 17.APR.2021 00:32:32

Highest Band Edge / 1 RB



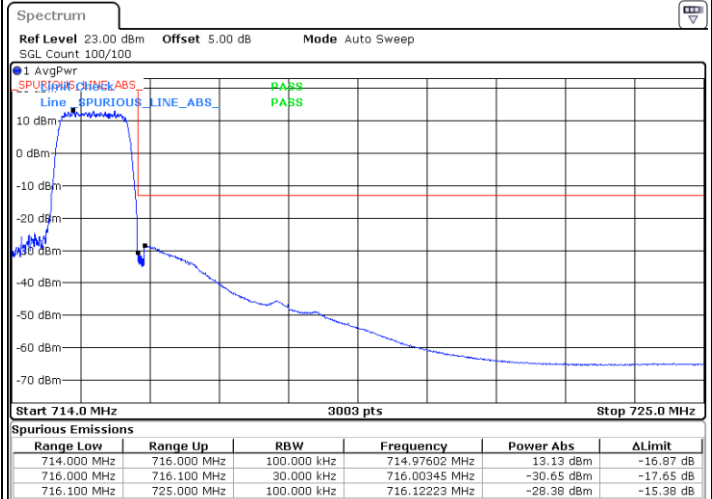
Date: 17.APR.2021 00:34:18

Lowest Band Edge / Full RB



Date: 17.APR.2021 00:33:06

Highest Band Edge / Full RB

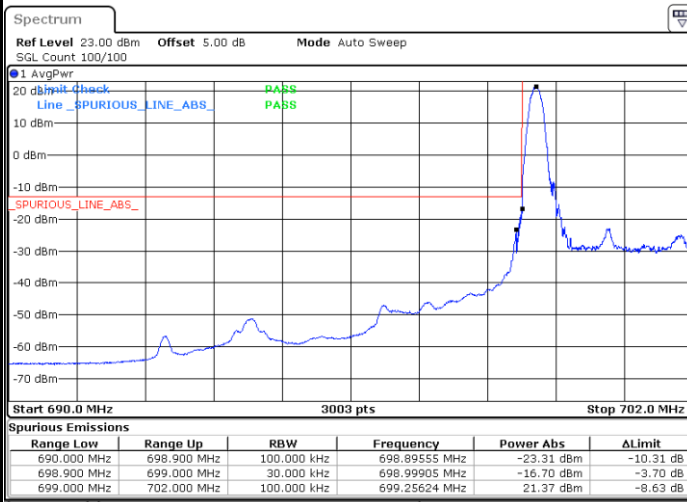


Date: 17.APR.2021 00:33:45



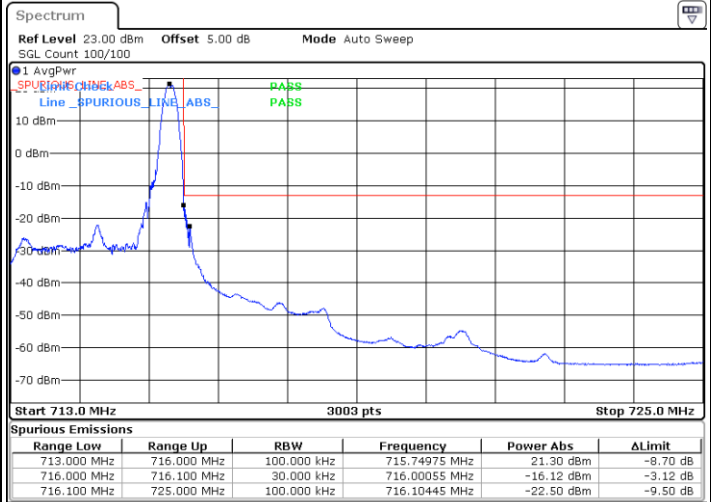
LTE Band 12 / 3MHz / QPSK

Lowest Band Edge / 1RB



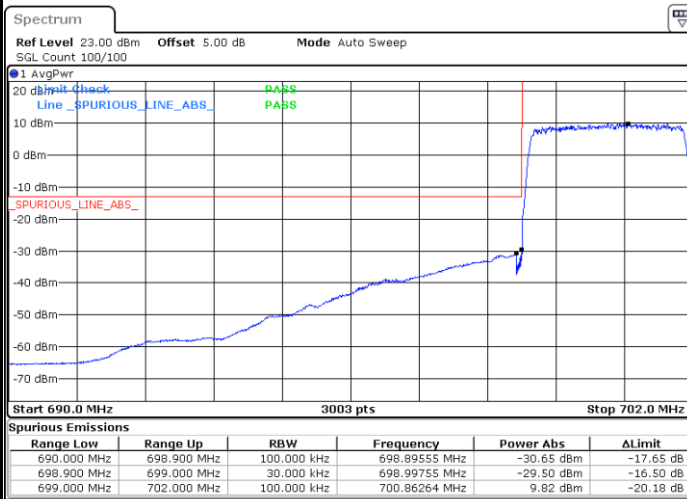
Date: 17.APR.2021 00:36:32

Highest Band Edge / 1 RB



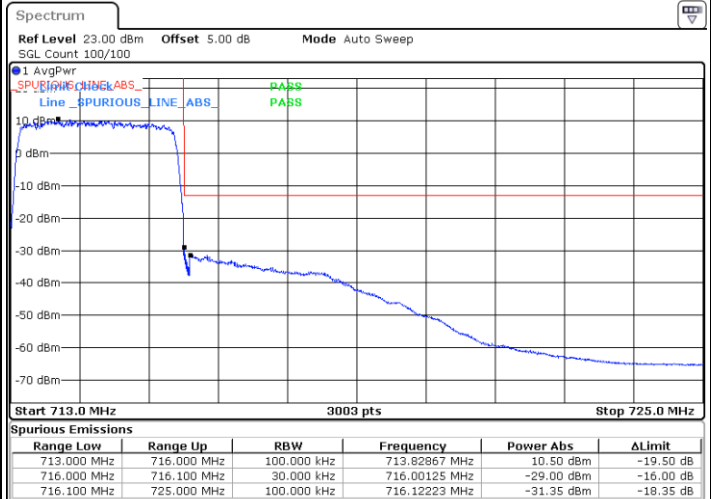
Date: 17.APR.2021 00:42:25

Lowest Band Edge / Full RB



Date: 17.APR.2021 00:38:47

Highest Band Edge / Full RB

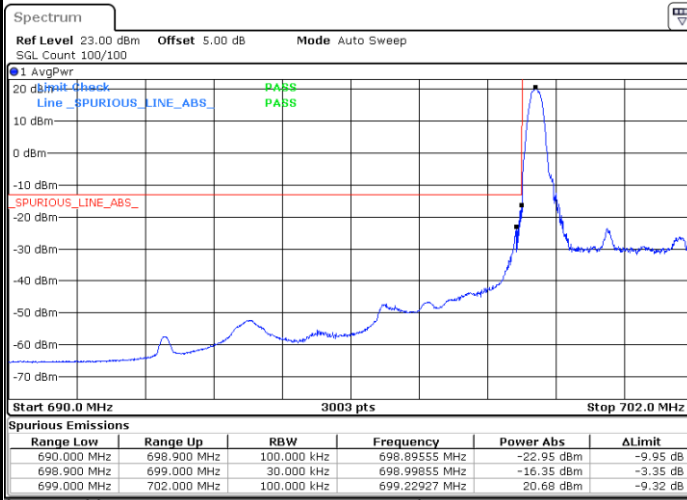


Date: 17.APR.2021 00:39:21



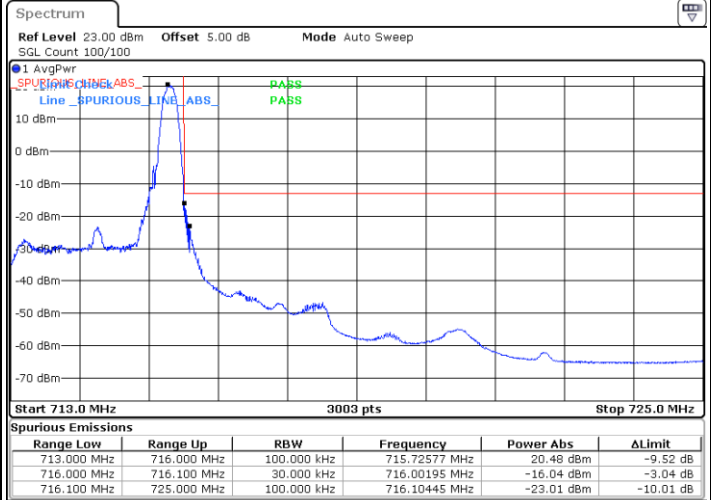
LTE Band 12 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



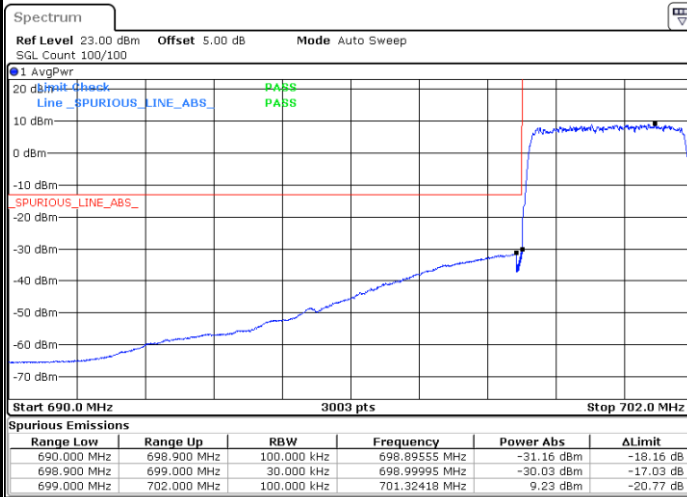
Date: 17.APR.2021 00:22:54

Highest Band Edge / 1 RB



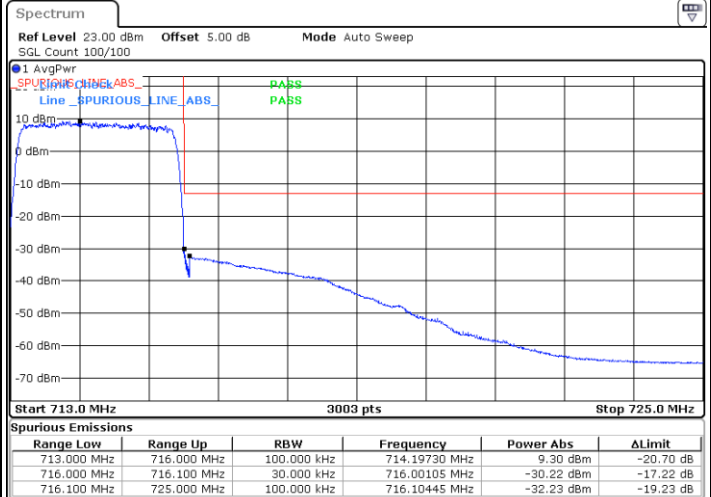
Date: 17.APR.2021 00:41:50

Lowest Band Edge / Full RB



Date: 17.APR.2021 00:38:13

Highest Band Edge / Full RB

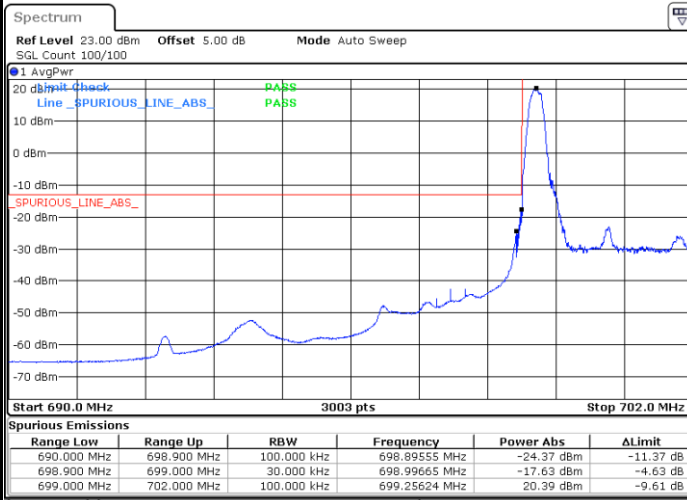


Date: 17.APR.2021 00:39:56



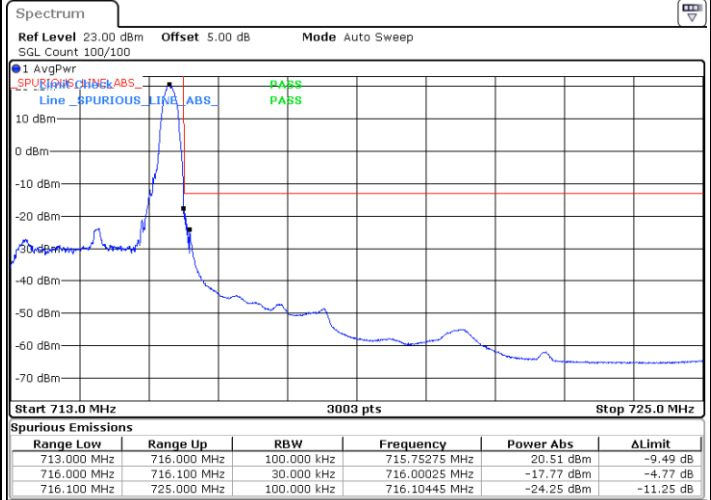
LTE Band 12 / 3MHz / 64QAM

Lowest Band Edge / 1 RB



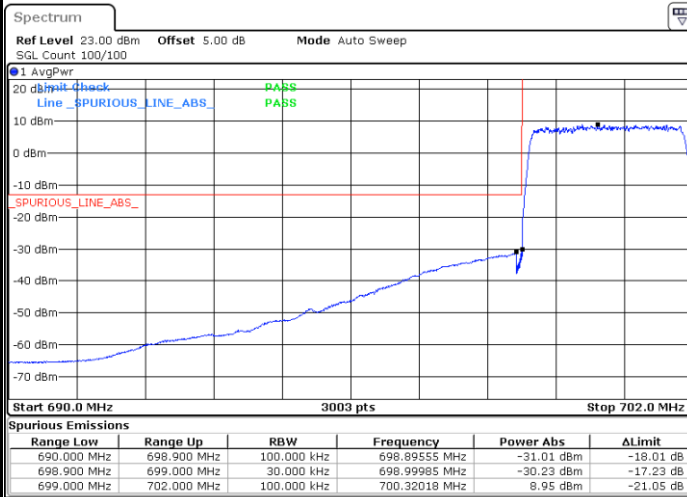
Date: 17.APR.2021 00:37:06

Highest Band Edge / 1 RB



Date: 17.APR.2021 00:41:17

Lowest Band Edge / Full RB



Date: 17.APR.2021 00:37:40

Highest Band Edge / Full RB

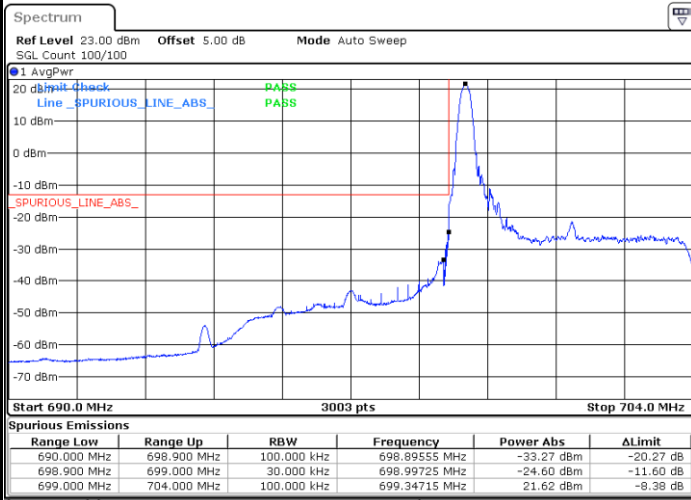


Date: 17.APR.2021 00:40:32



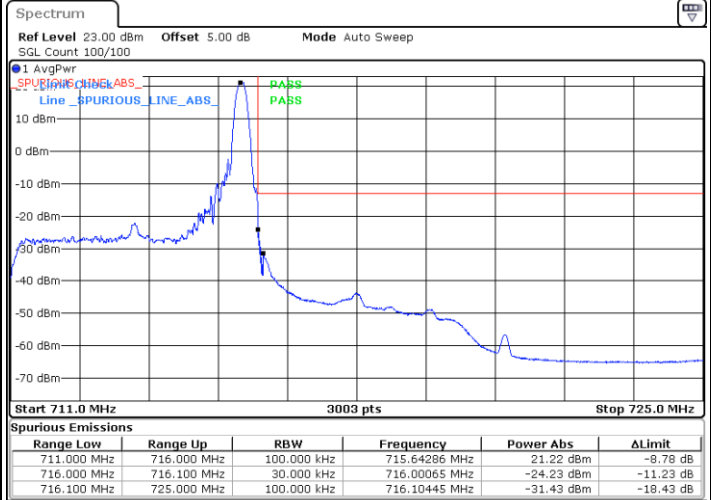
LTE Band 12 / 5MHz / QPSK

Lowest Band Edge / 1 RB



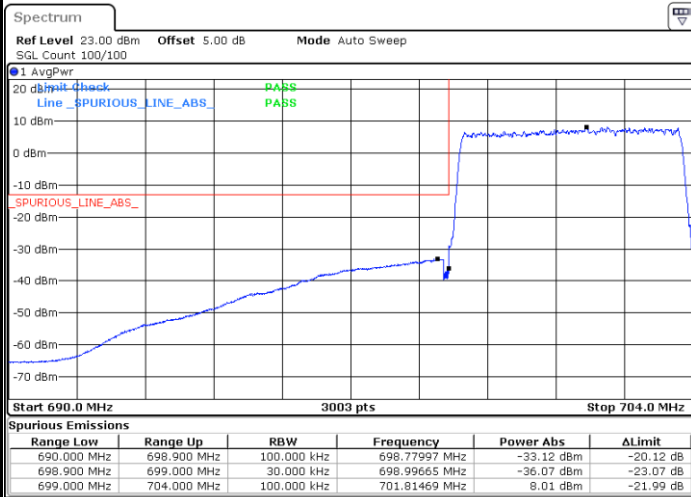
Date: 17.APR.2021 00:44:40

Highest Band Edge / 1 RB



Date: 17.APR.2021 00:51:53

Lowest Band Edge / Full RB



Date: 17.APR.2021 00:47:29

Highest Band Edge / Full RB



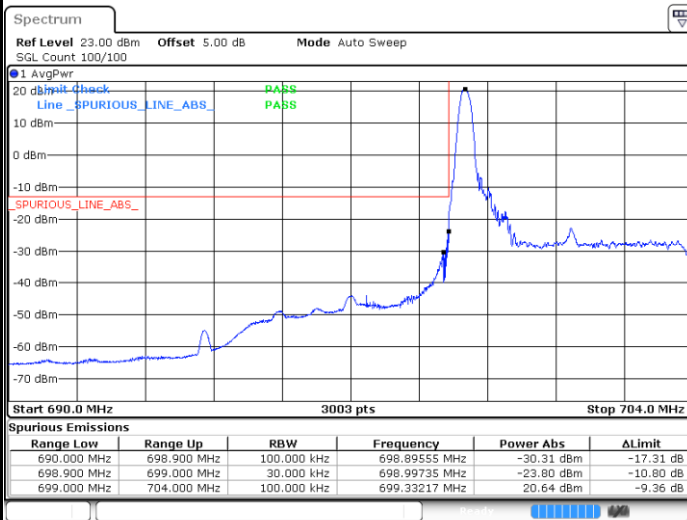
Date: 17.APR.2021 00:48:09





LTE Band 12 / 5MHz / 16QAM

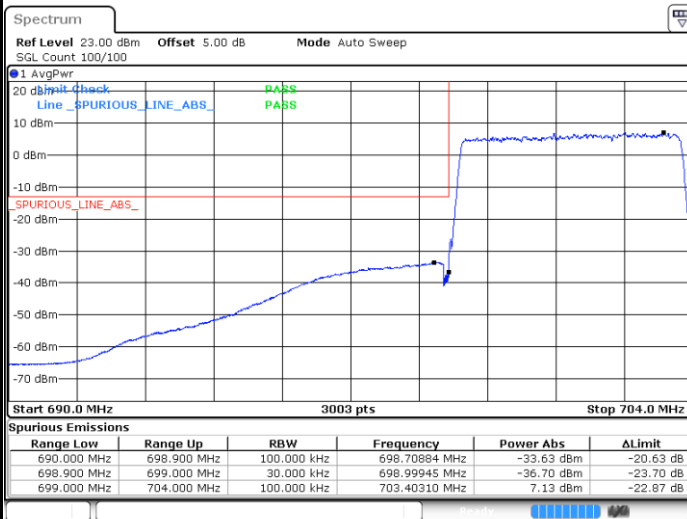
Lowest Band Edge / 1RB



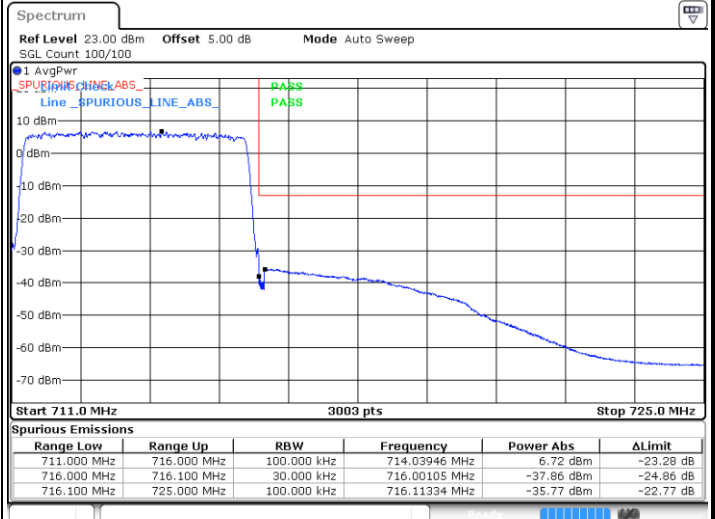
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



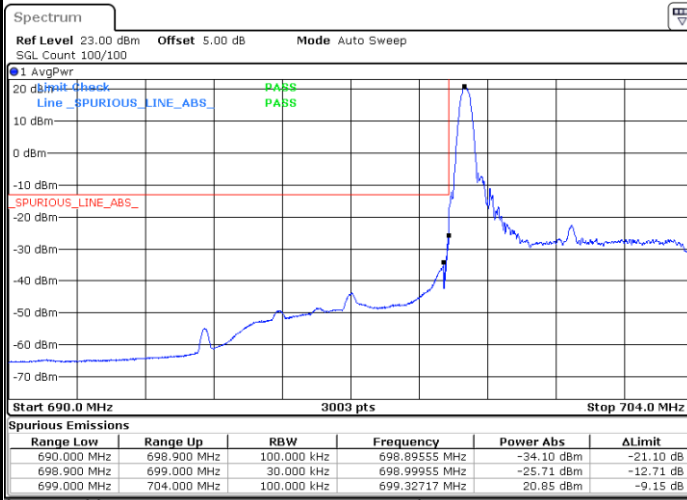
Highest Band Edge / Full RB





LTE Band 12 / 5MHz / 64QAM

Lowest Band Edge / 1RB



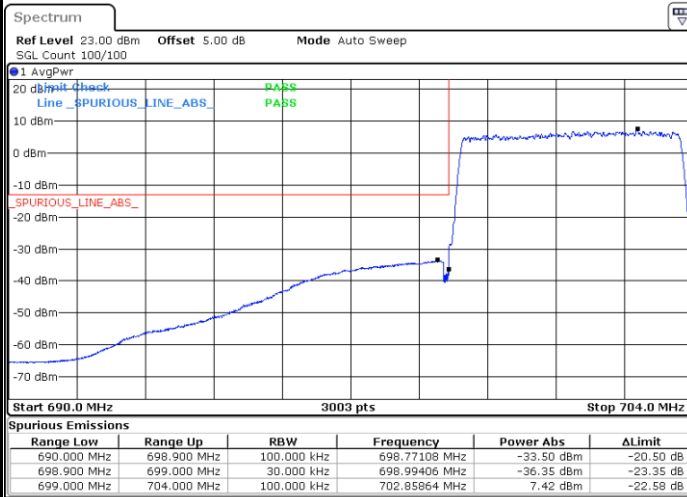
Date: 17.APR.2021 00:45:47

Highest Band Edge / 1 RB



Date: 17.APR.2021 00:50:45

Lowest Band Edge / Full RB



Date: 17.APR.2021 00:46:20

Highest Band Edge / Full RB

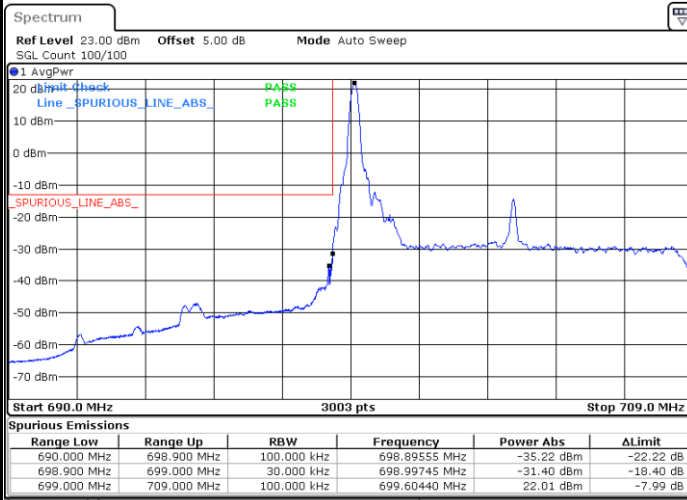


Date: 17.APR.2021 00:48:18



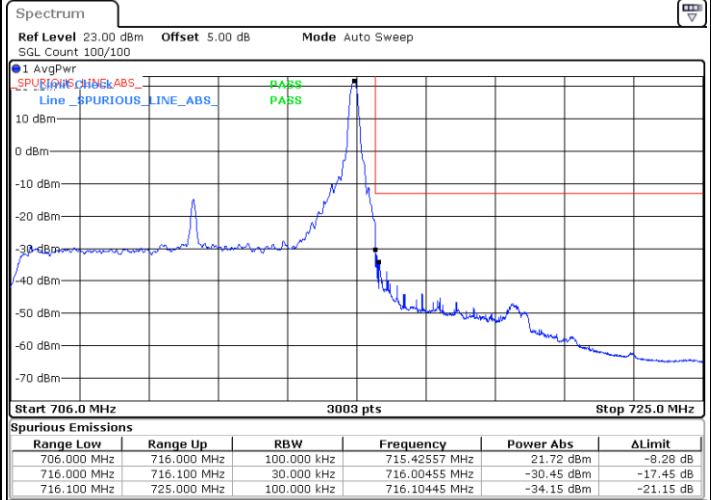
LTE Band 12 / 10MHz / QPSK

Lowest Band Edge / 1 RB



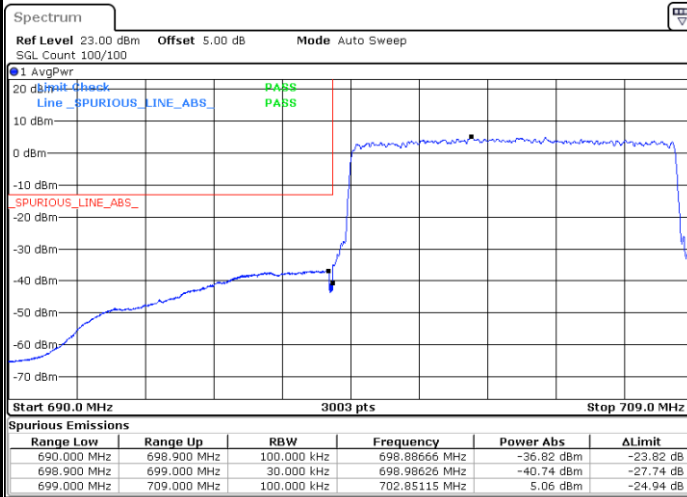
Date: 17.APR.2021 00:54:10

Highest Band Edge / 1 RB



Date: 17.APR.2021 01:02:12

Lowest Band Edge / Full RB



Date: 17.APR.2021 00:57:08

Highest Band Edge / Full RB

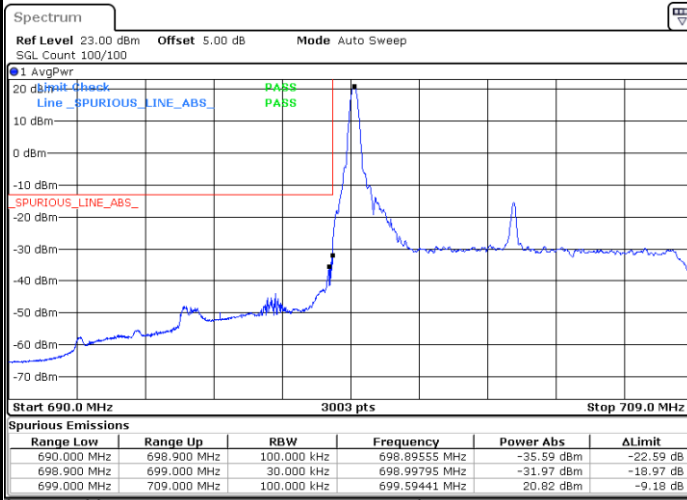


Date: 17.APR.2021 00:58:00



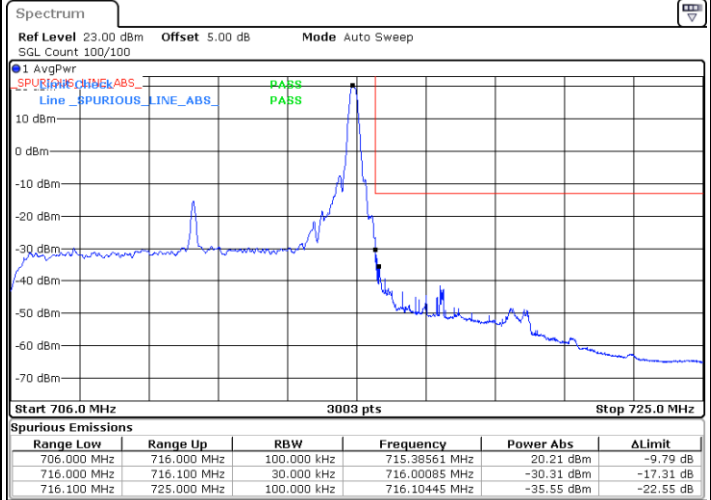
LTE Band 12 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



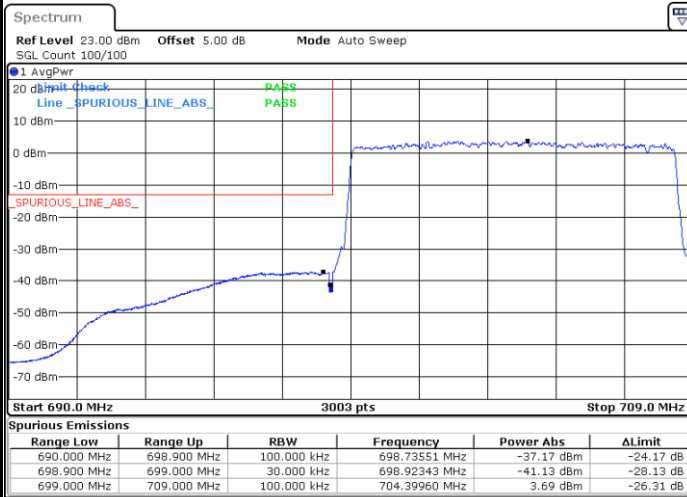
Date: 17.APR.2021 00:54:44

Highest Band Edge / 1 RB



Date: 17.APR.2021 01:01:36

Lowest Band Edge / Full RB



Date: 17.APR.2021 00:56:34

Highest Band Edge / Full RB

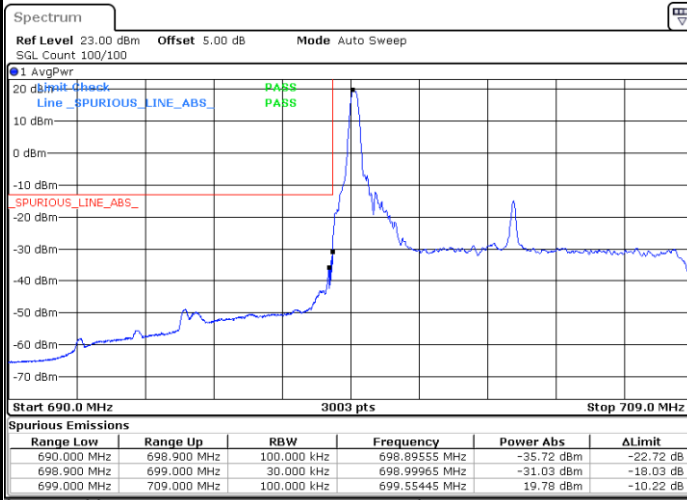


Date: 17.APR.2021 00:58:35



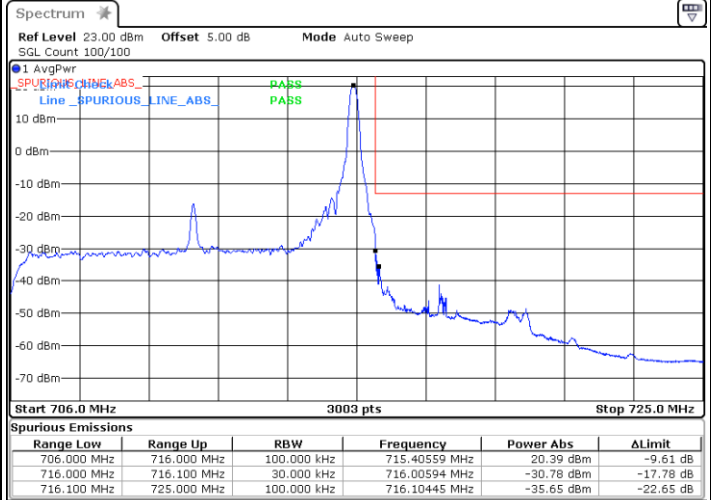
LTE Band 12 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



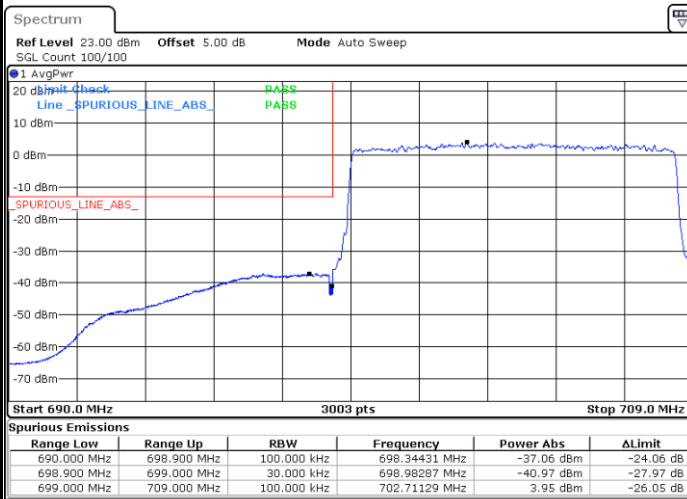
Date: 17.APR.2021 00:55:20

Highest Band Edge / 1 RB



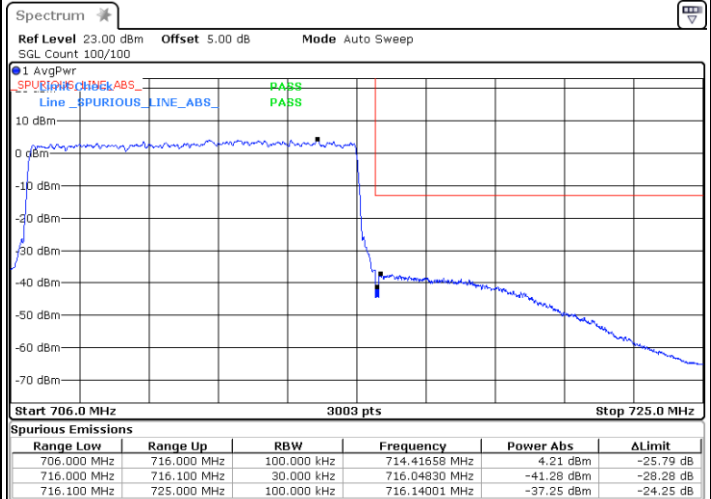
Date: 17.APR.2021 01:00:50

Lowest Band Edge / Full RB



Date: 17.APR.2021 00:55:58

Highest Band Edge / Full RB



Date: 17.APR.2021 00:59:49



# Conducted Spurious Emission

