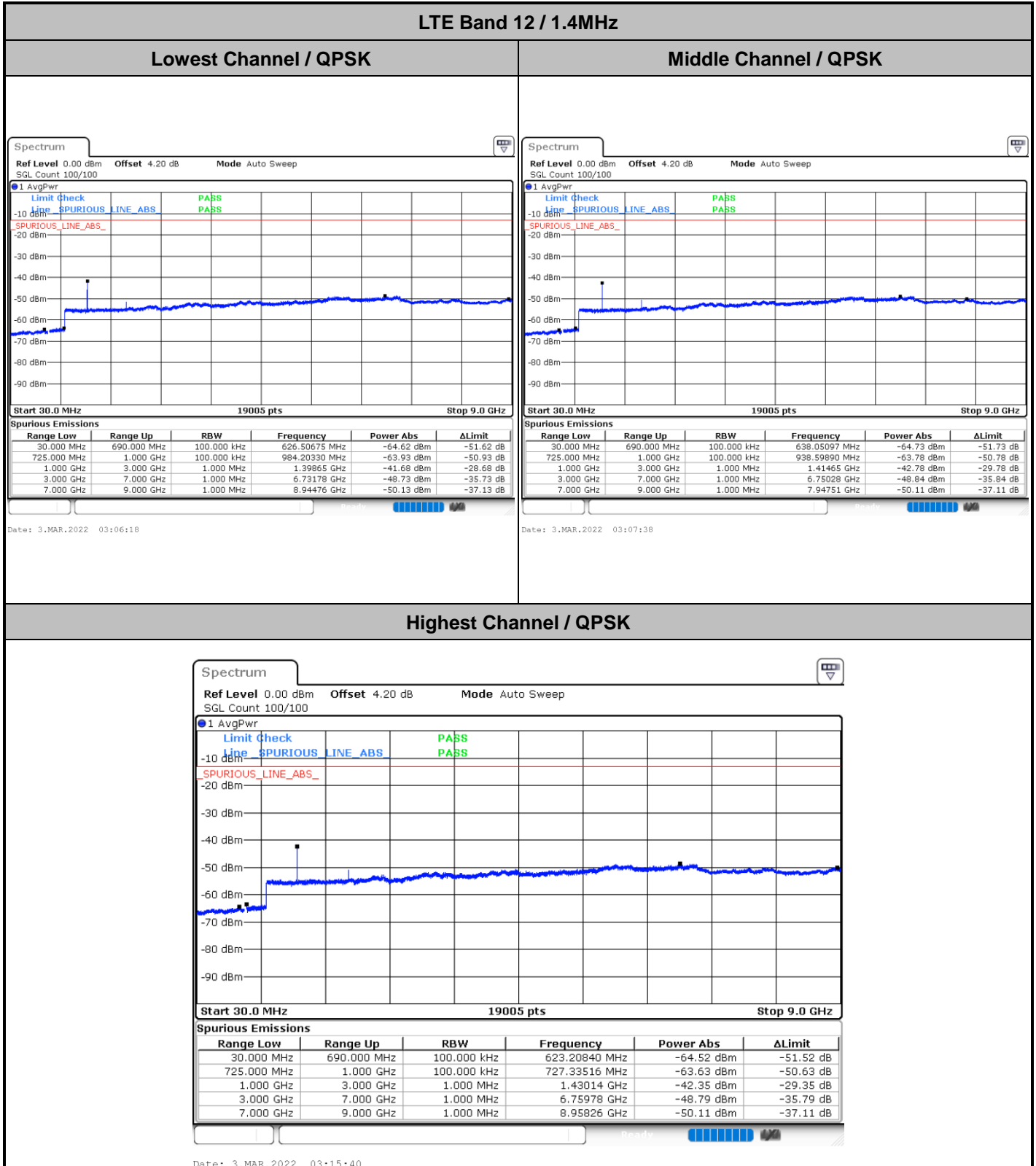




# Conducted Spurious Emission

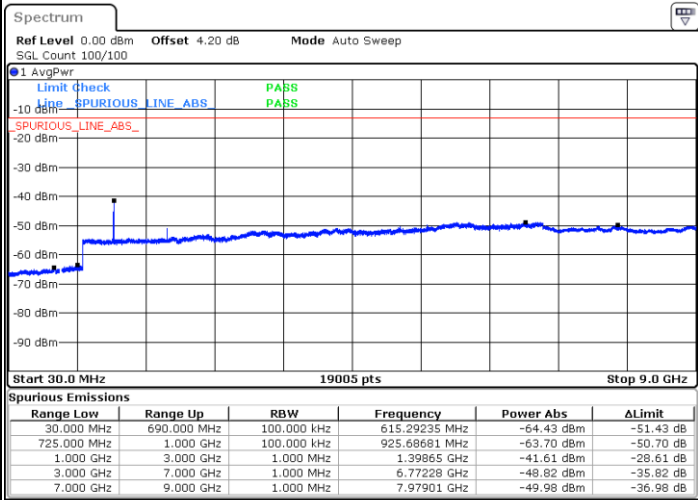




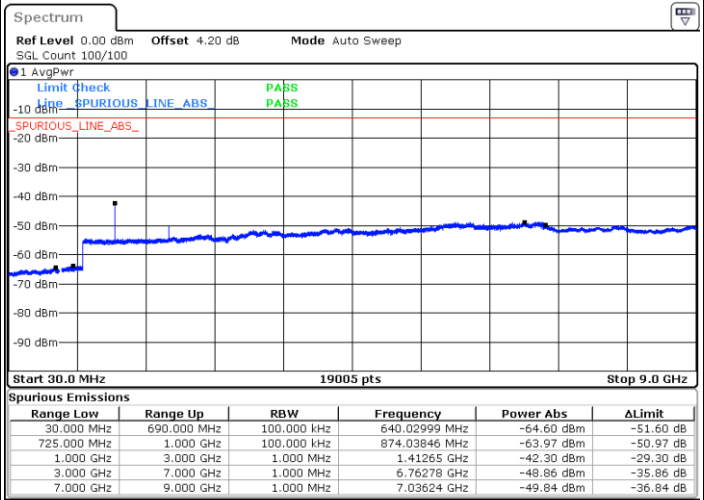
LTE Band 12 / 3MHz

Lowest Channel / QPSK

Middle Channel / QPSK

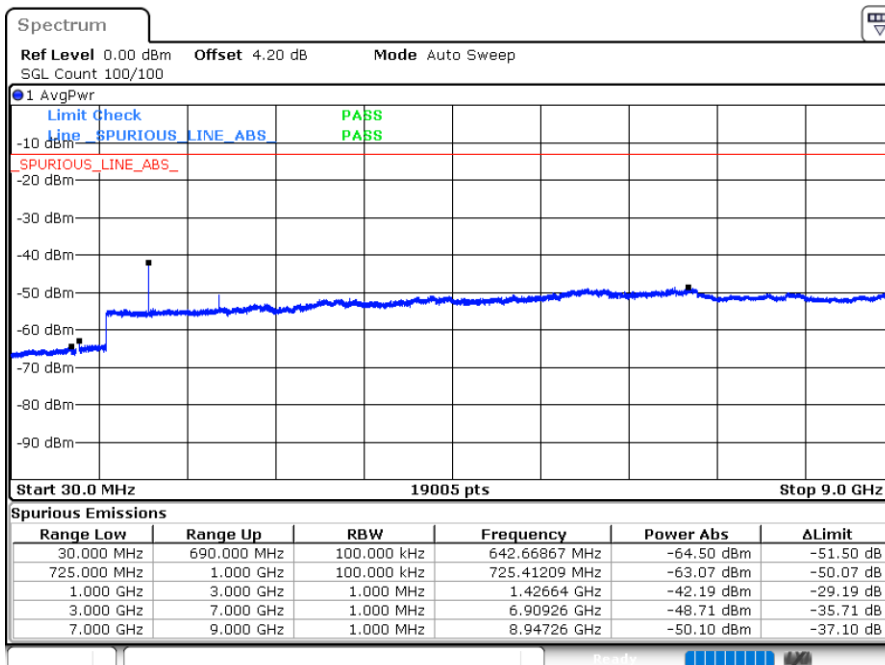


Date: 3.MAR.2022 01:47:42



Date: 3.MAR.2022 01:49:02

Highest Channel / QPSK

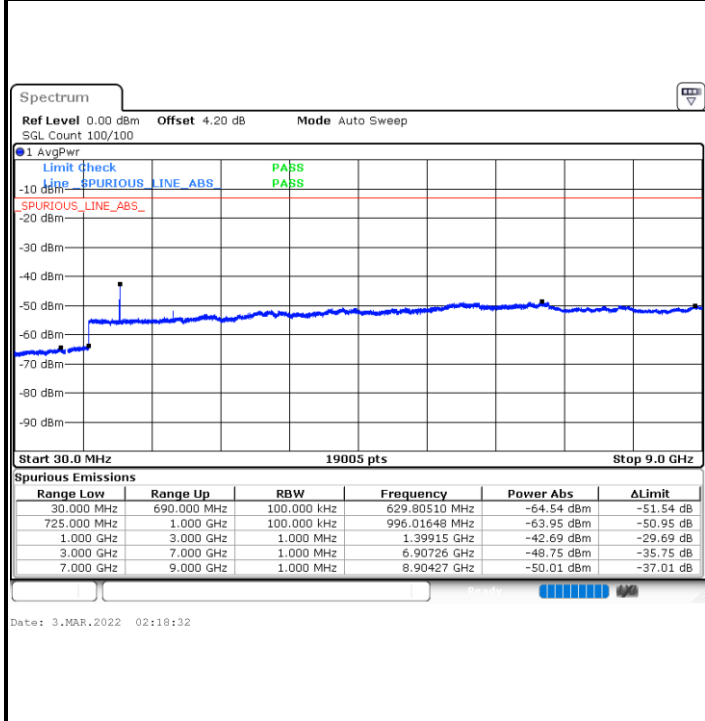


Date: 3.MAR.2022 01:57:03

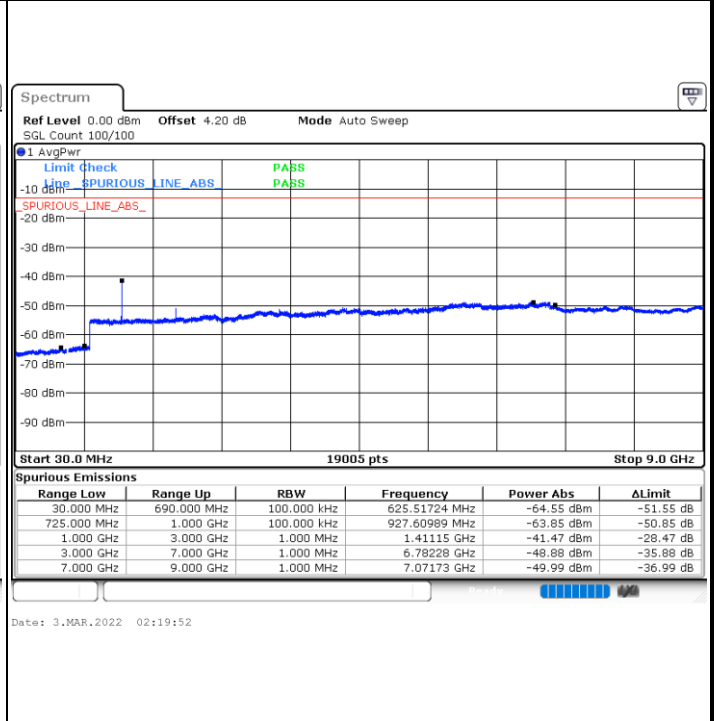


**LTE Band 12 / 5MHz**

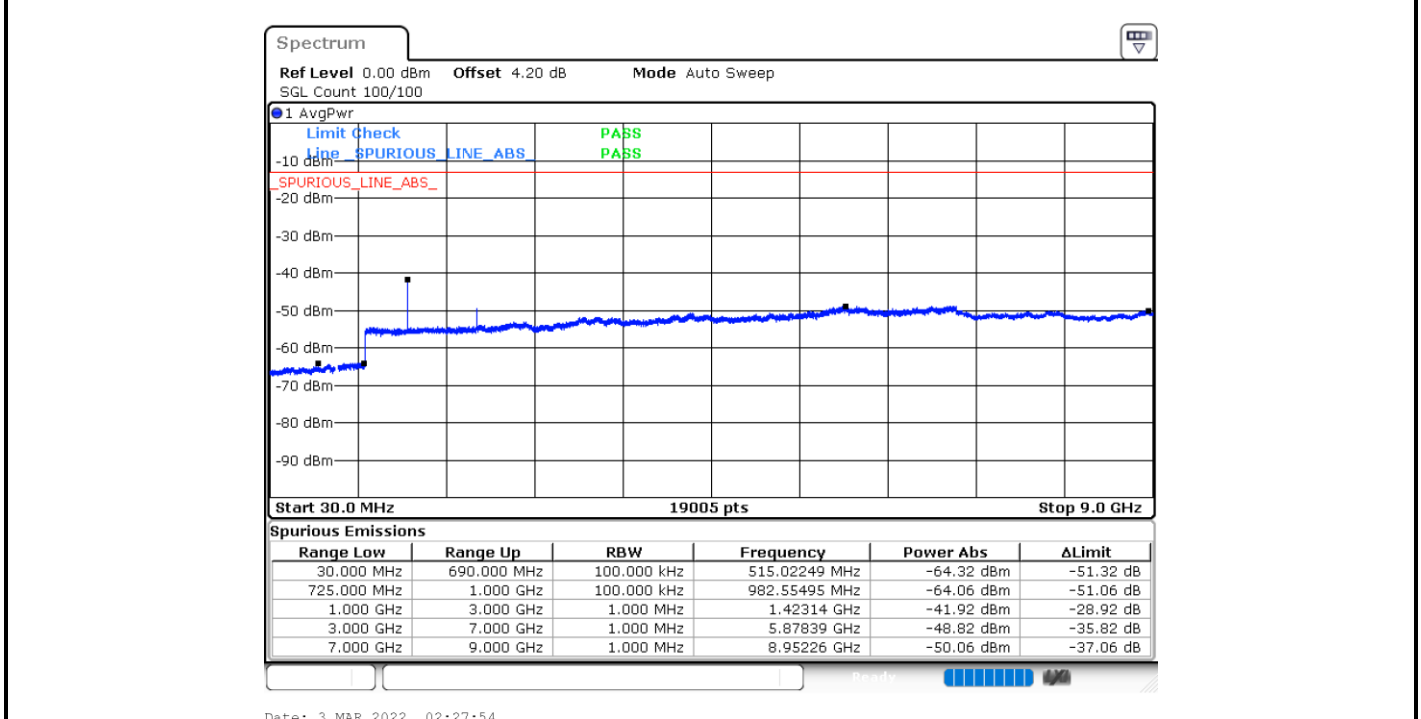
**Lowest Channel / QPSK**



**Middle Channel / QPSK**



**Highest Channel / QPSK**

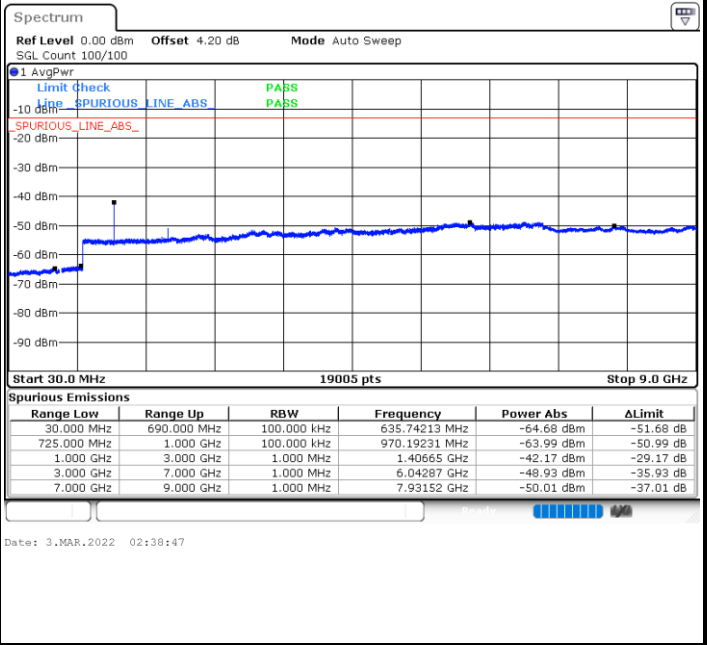
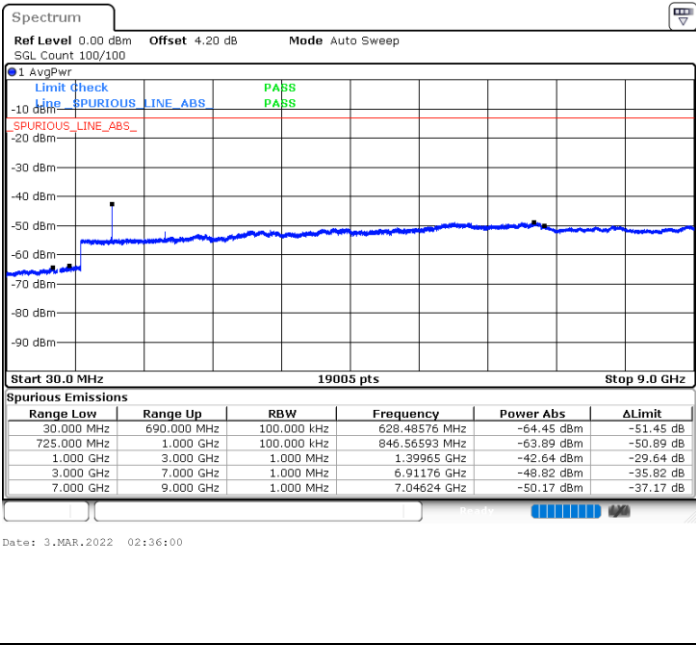




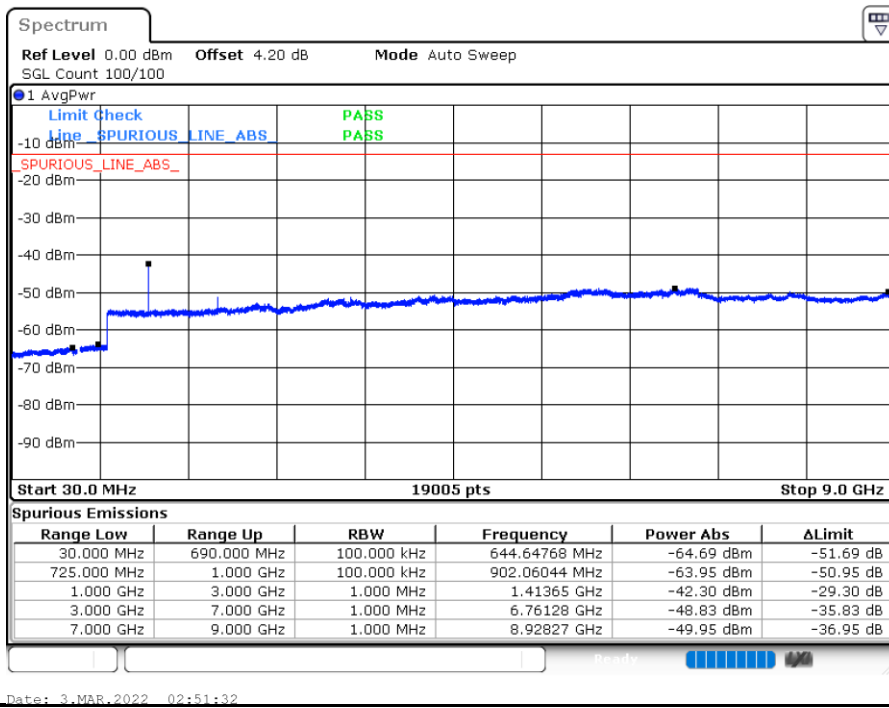
LTE Band 12 / 10MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK





### 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	0.0022	PASS
40	Normal Voltage	0.0015	
30	Normal Voltage	0.0026	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0005	
0	Normal Voltage	0.0021	
-10	Normal Voltage	0.0012	
-20	Normal Voltage	0.0005	
-30	Normal Voltage	0.0008	
20	Maximum Voltage	0.0013	
20	Normal Voltage	0.0009	
20	Battery End Point	0.0008	

**Note:**

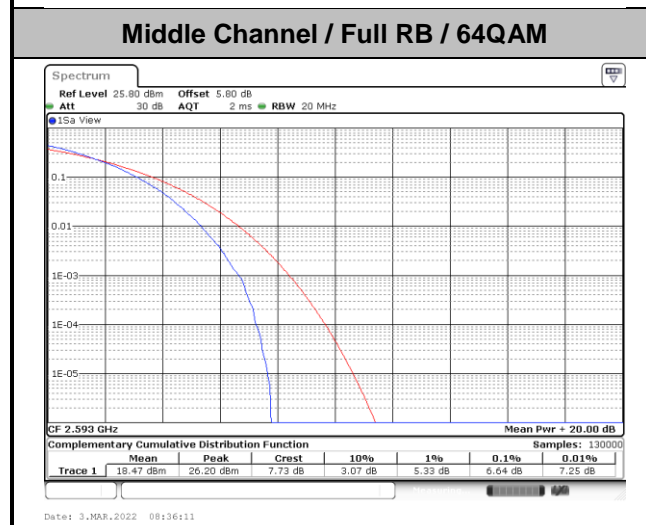
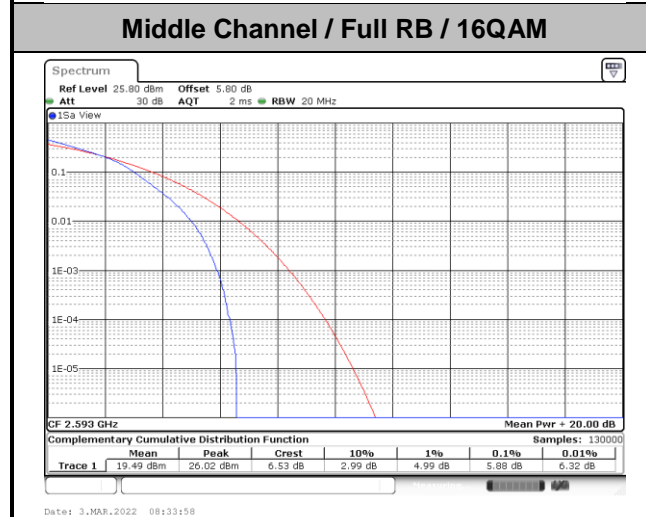
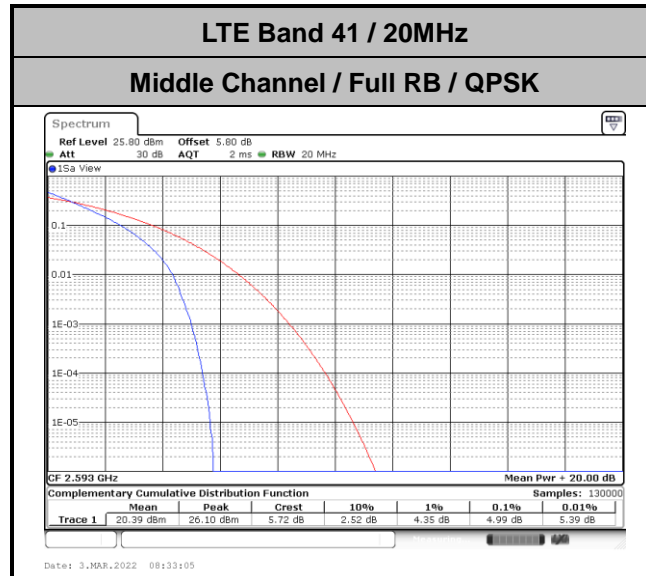
1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.5 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



## LTE Band 41

### Peak-to-Average Ratio

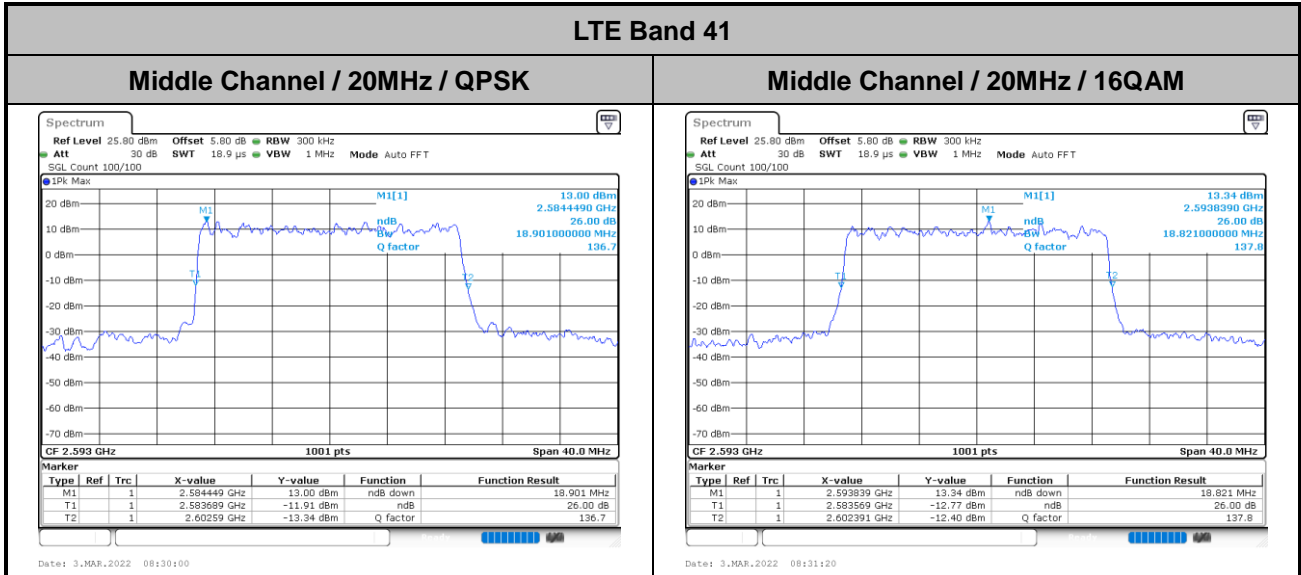
Mode	LTE Band 41 / 20MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	4.99	5.88	6.64	<b>PASS</b>





**26dB Bandwidth**

Mode	LTE Band 41 : 26dB BW(MHz)	
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	18.90	18.82

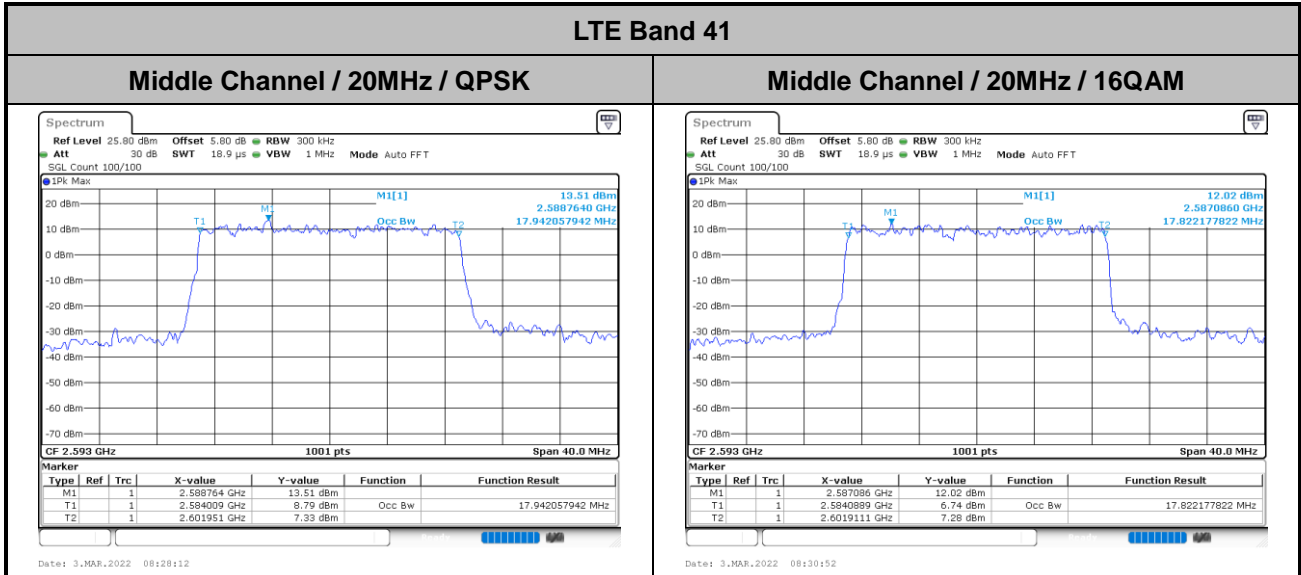






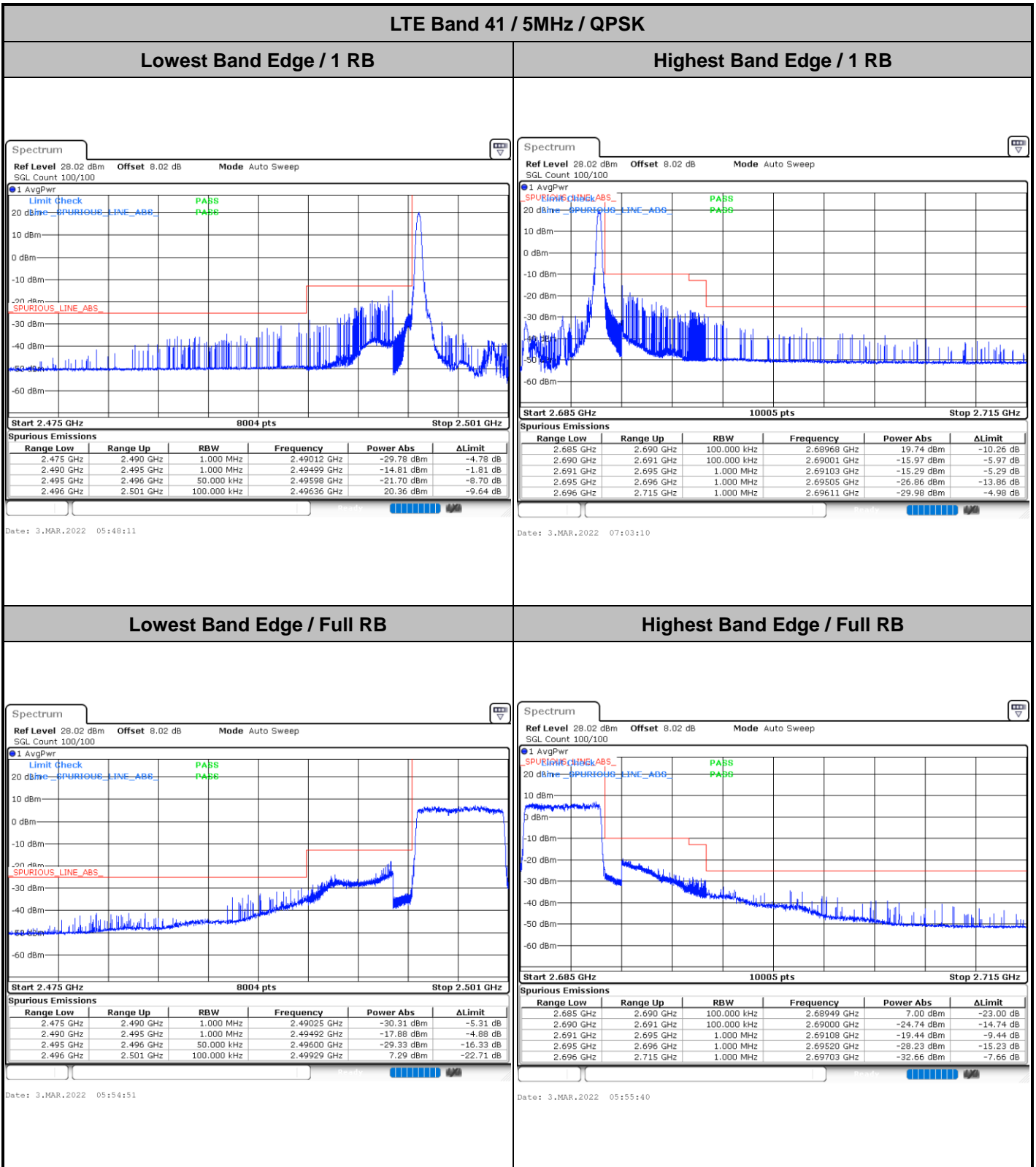
# Occupied Bandwidth

Mode	LTE Band 41 : 99%OBW(MHz)	
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	17.94	17.82





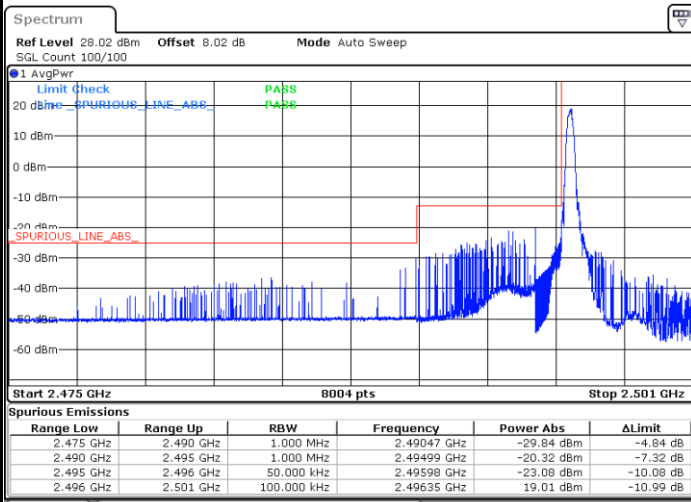
# Conducted Band Edge





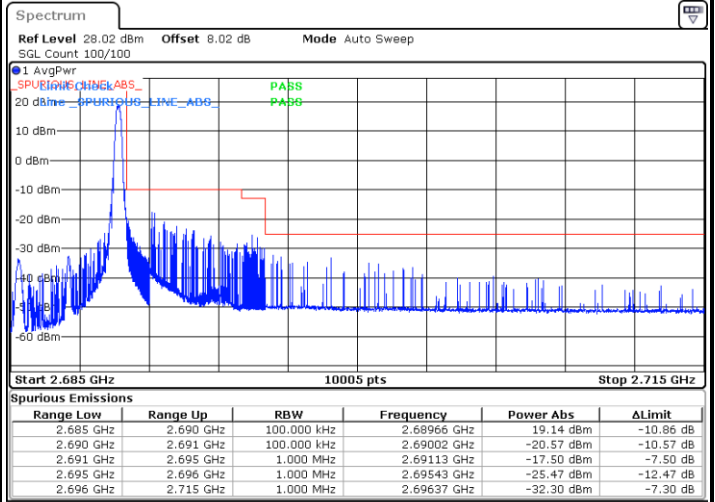
LTE Band 41 / 5MHz / 16QAM

Lowest Band Edge / 1RB



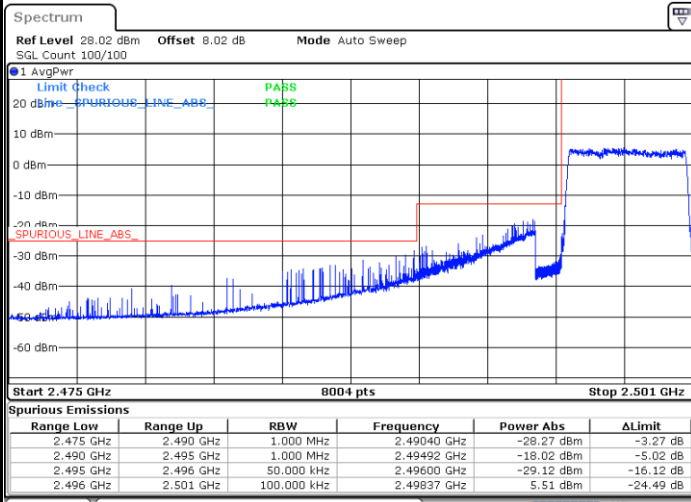
Date: 3.MAR.2022 05:49:12

Highest Band Edge / 1 RB



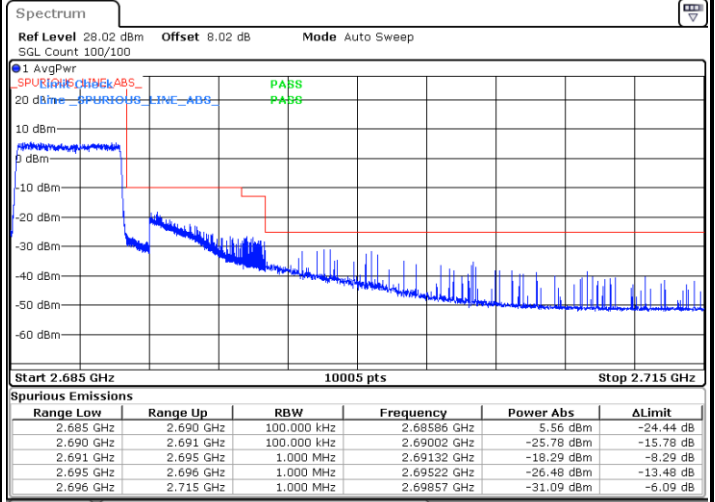
Date: 3.MAR.2022 07:01:39

Lowest Band Edge / Full RB



Date: 3.MAR.2022 05:54:02

Highest Band Edge / Full RB

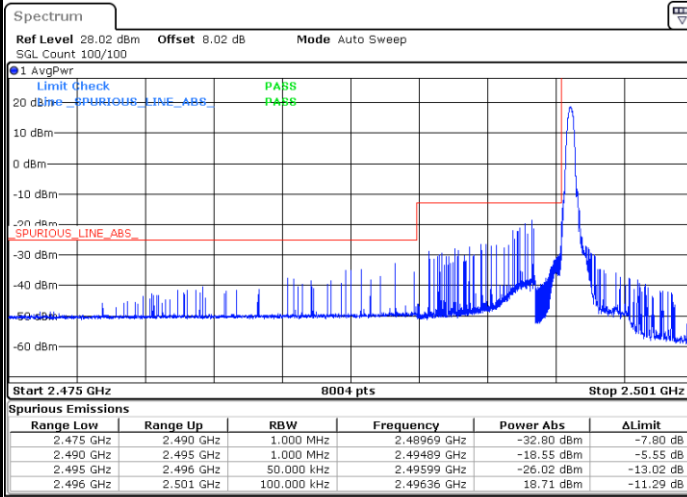


Date: 3.MAR.2022 05:57:09



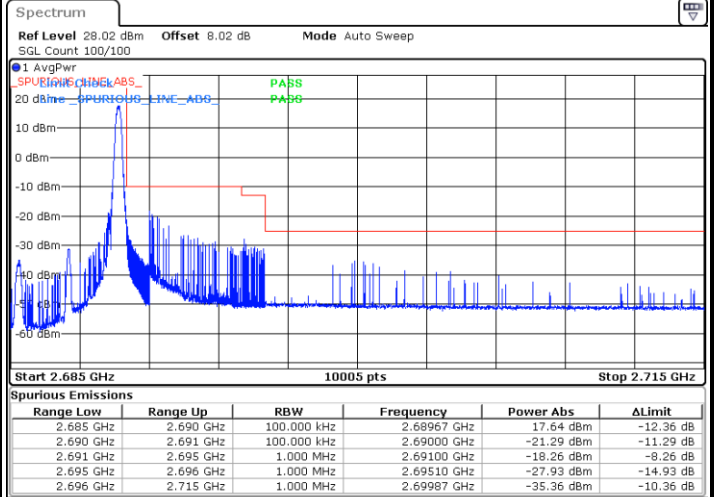
LTE Band 41 / 5MHz / 64QAM

Lowest Band Edge / 1RB



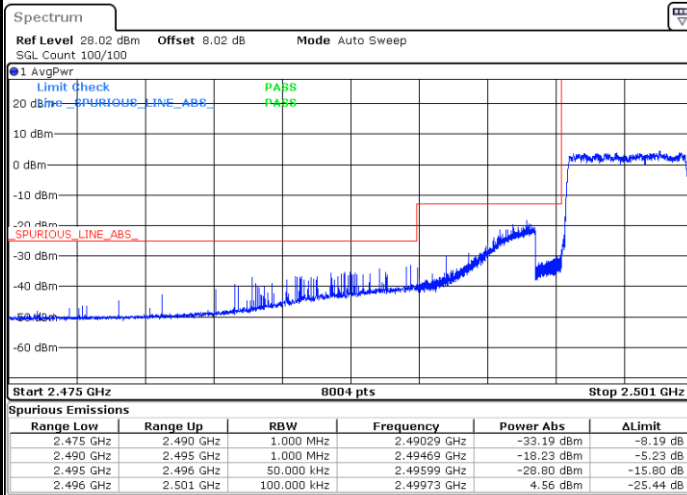
Date: 3.MAR.2022 05:49:55

Highest Band Edge / 1 RB



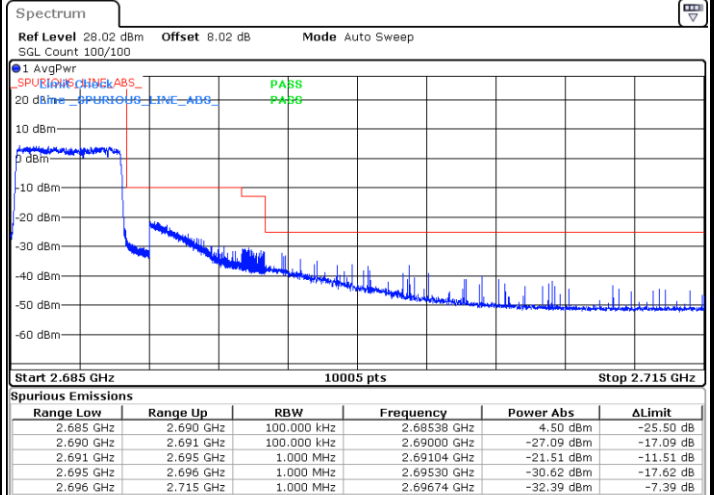
Date: 3.MAR.2022 07:01:07

Lowest Band Edge / Full RB



Date: 3.MAR.2022 05:52:08

Highest Band Edge / Full RB

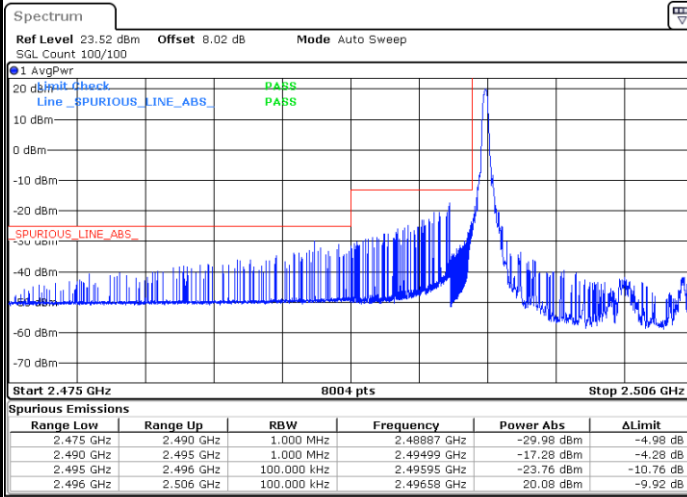


Date: 3.MAR.2022 07:00:30



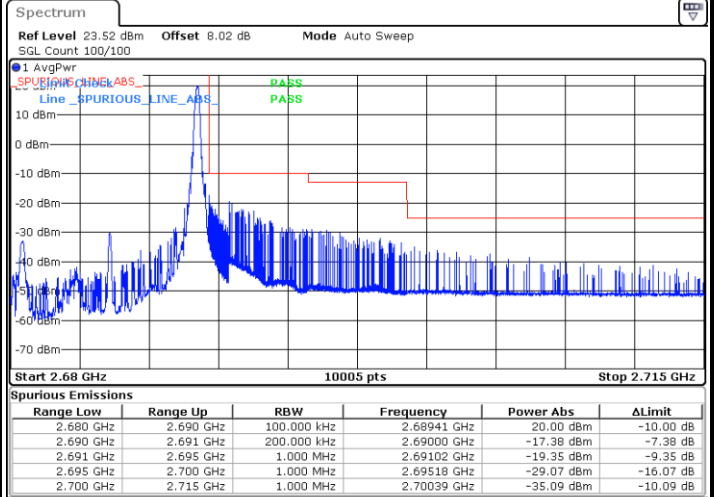
LTE Band 41 / 10MHz / QPSK

Lowest Band Edge / 1 RB



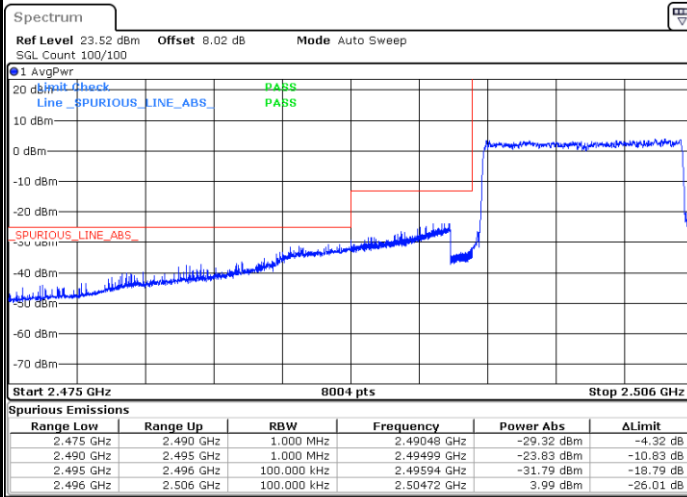
Date: 3.MAR.2022 07:12:57

Highest Band Edge / 1 RB



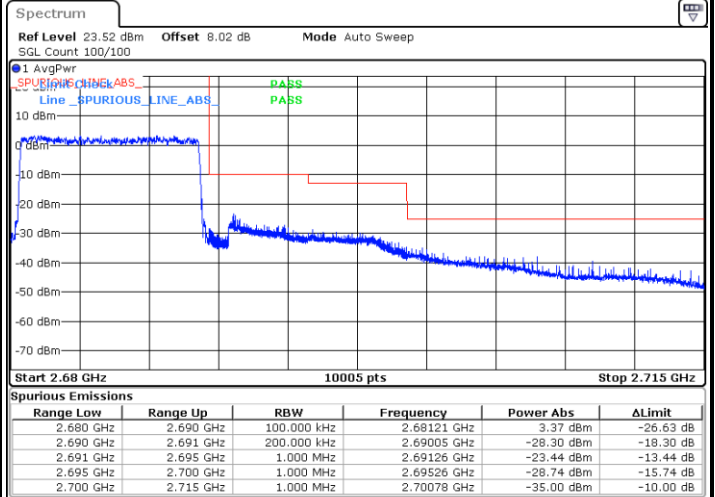
Date: 3.MAR.2022 07:23:23

Lowest Band Edge / Full RB



Date: 3.MAR.2022 07:18:03

Highest Band Edge / Full RB

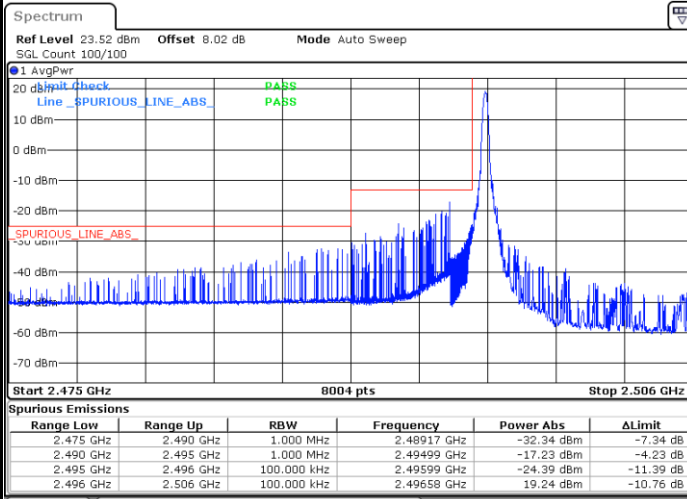


Date: 3.MAR.2022 07:27:19



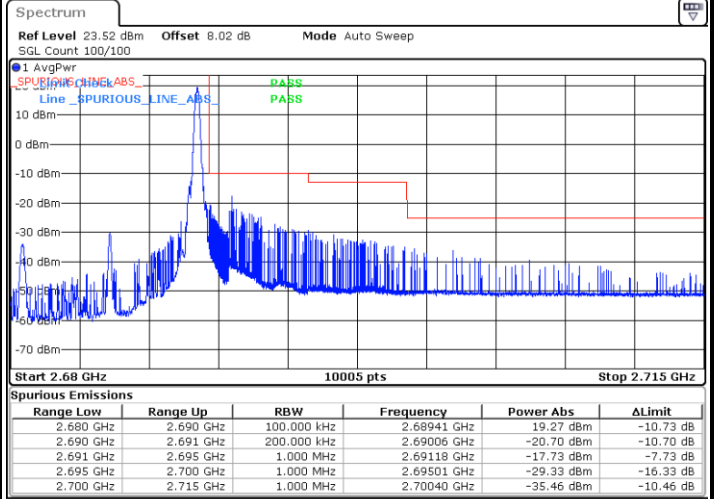
LTE Band 41 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



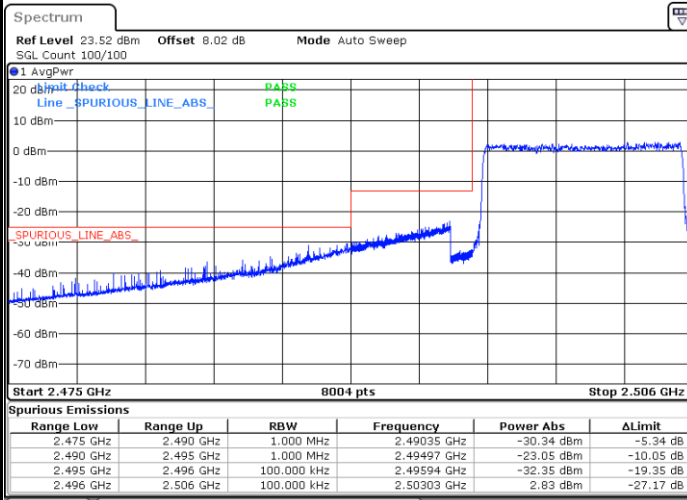
Date: 3.MAR.2022 07:14:43

Highest Band Edge / 1 RB



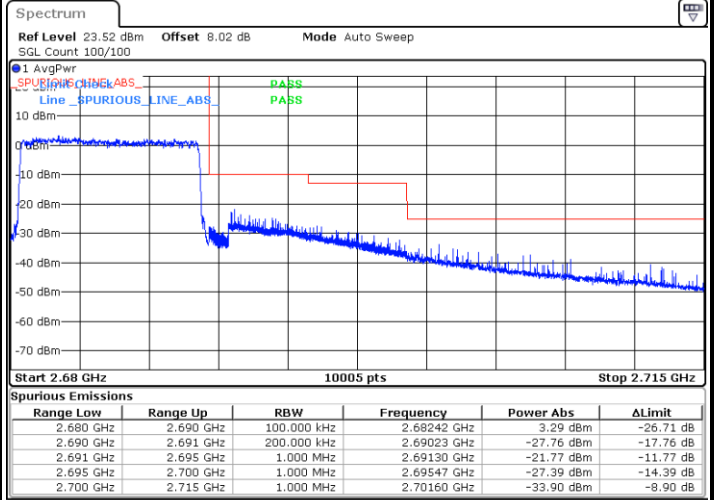
Date: 3.MAR.2022 07:23:57

Lowest Band Edge / Full RB



Date: 3.MAR.2022 07:17:31

Highest Band Edge / Full RB

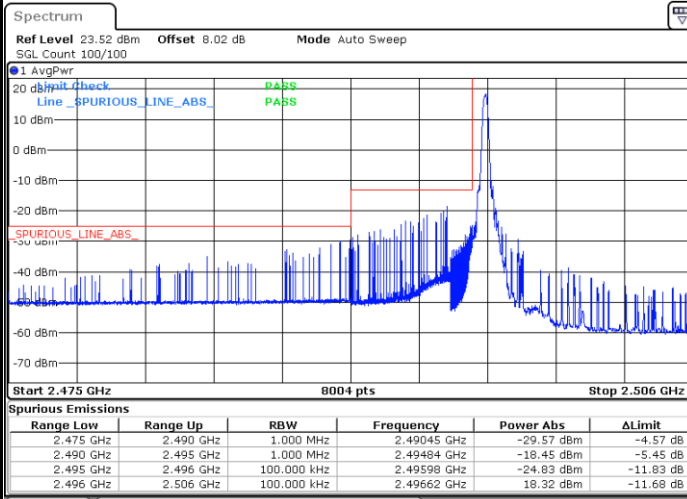


Date: 3.MAR.2022 07:25:50



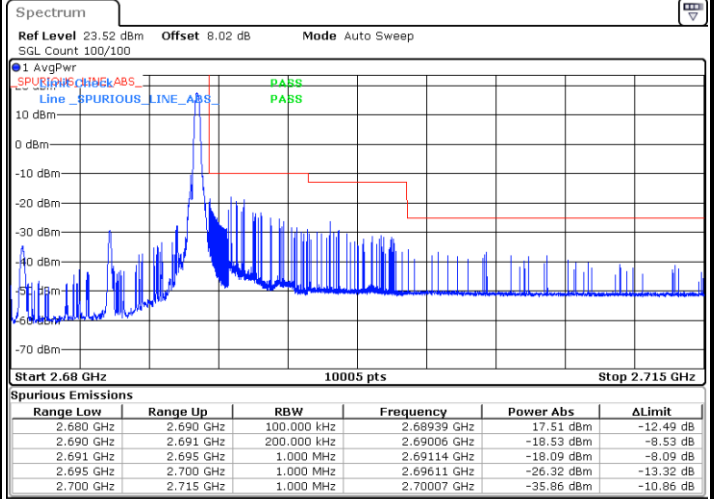
LTE Band 41 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



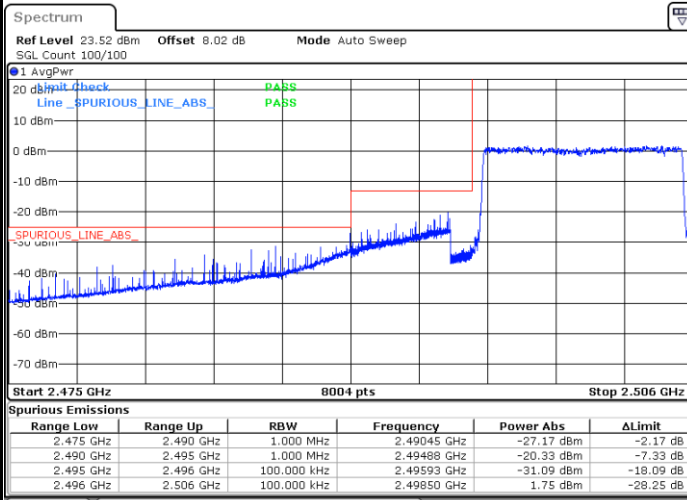
Date: 3.MAR.2022 07:15:31

Highest Band Edge / 1 RB



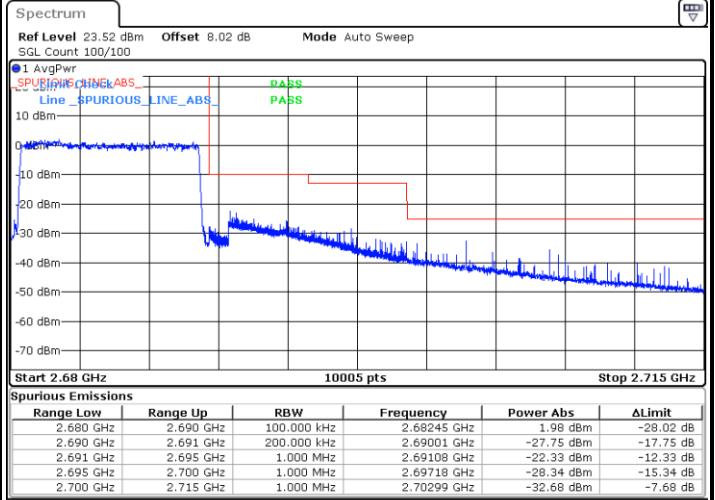
Date: 3.MAR.2022 07:24:29

Lowest Band Edge / Full RB



Date: 3.MAR.2022 07:16:48

Highest Band Edge / Full RB

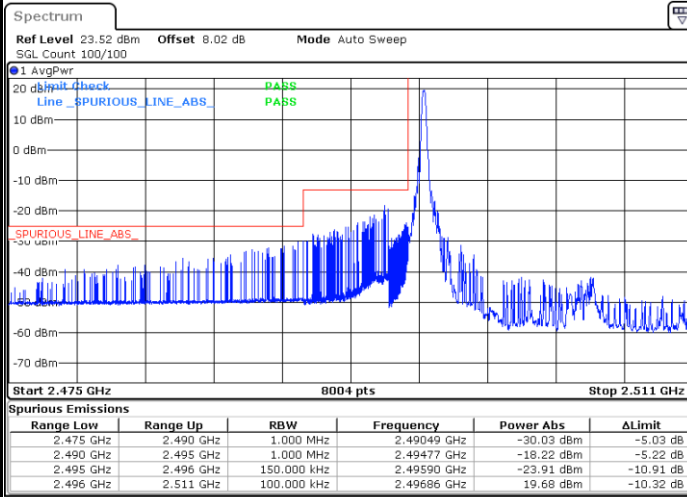


Date: 3.MAR.2022 07:25:06



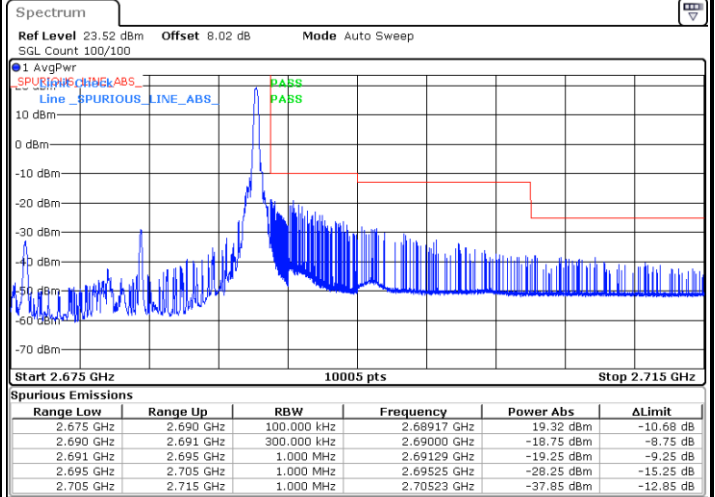
LTE Band 41 / 15MHz / QPSK

Lowest Band Edge / 1 RB



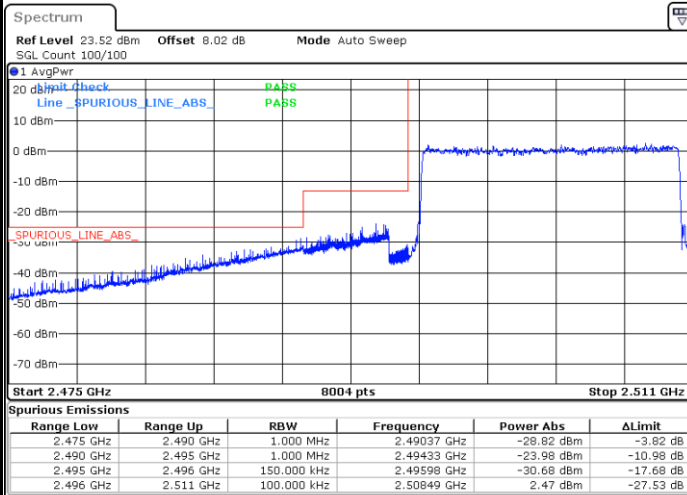
Date: 3.MAR.2022 07:34:22

Highest Band Edge / 1 RB



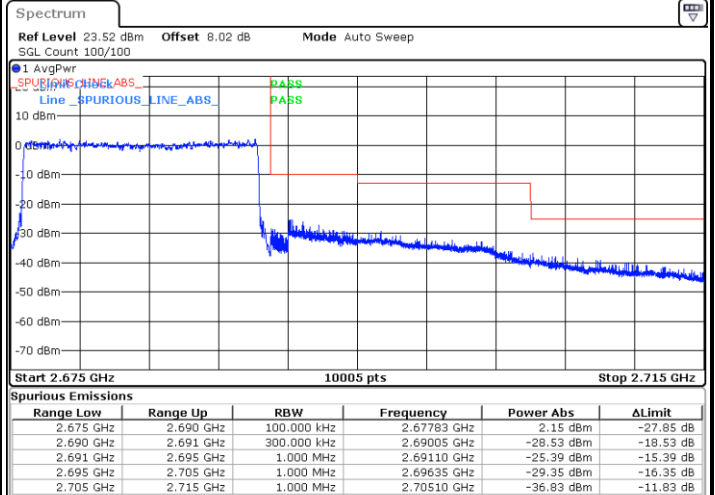
Date: 3.MAR.2022 07:40:09

Lowest Band Edge / Full RB



Date: 3.MAR.2022 07:28:32

Highest Band Edge / Full RB



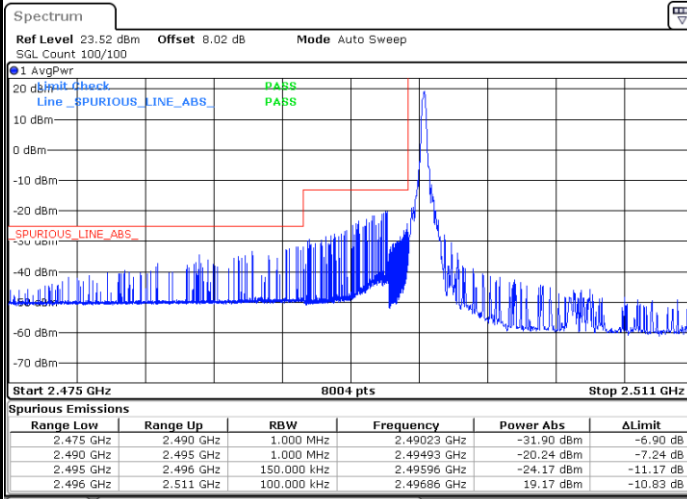
Date: 3.MAR.2022 07:43:03





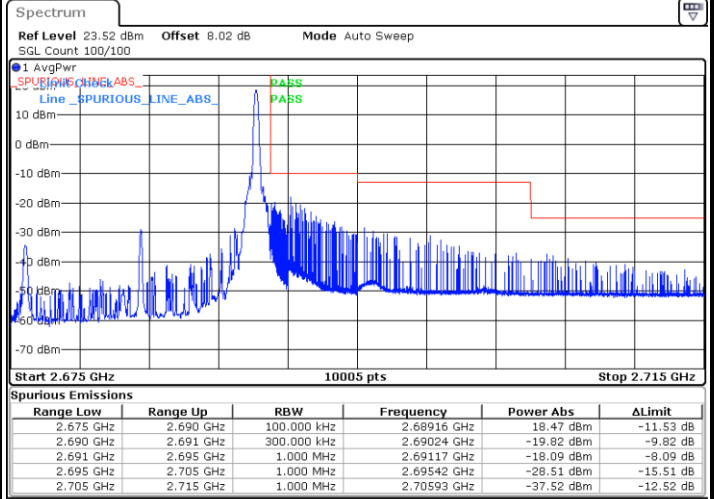
LTE Band 41 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



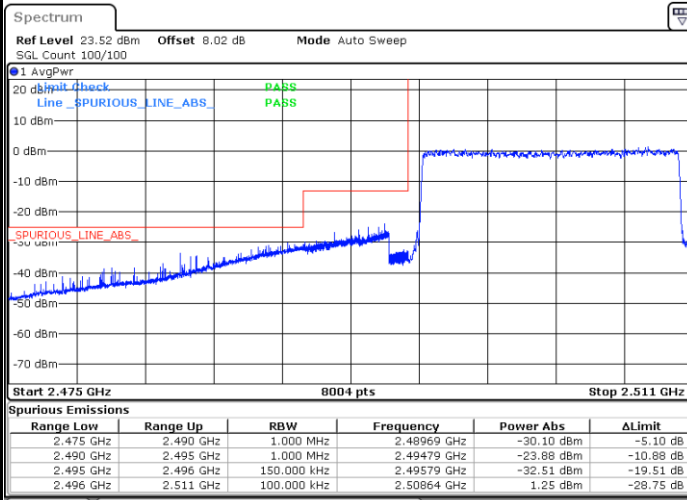
Date: 3.MAR.2022 07:33:39

Highest Band Edge / 1 RB



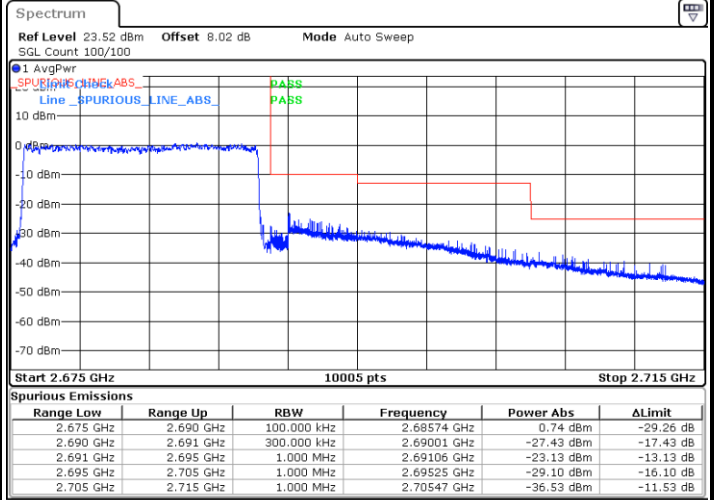
Date: 3.MAR.2022 07:40:39

Lowest Band Edge / Full RB



Date: 3.MAR.2022 07:29:13

Highest Band Edge / Full RB

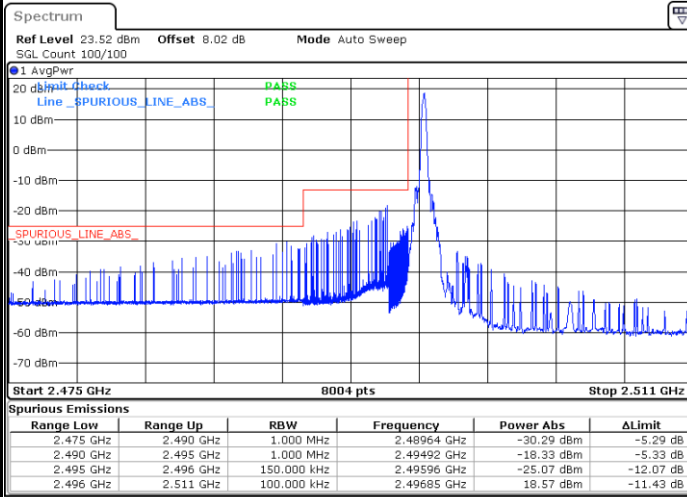


Date: 3.MAR.2022 07:42:27



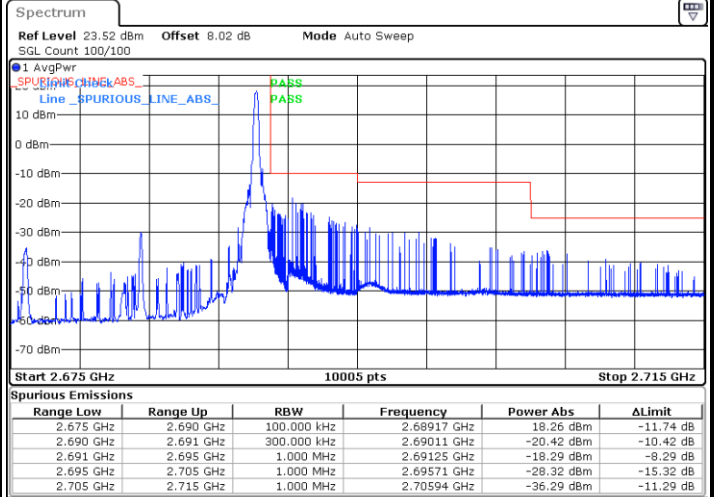
LTE Band 41 / 15MHz / 64QAM

Lowest Band Edge / 1 RB



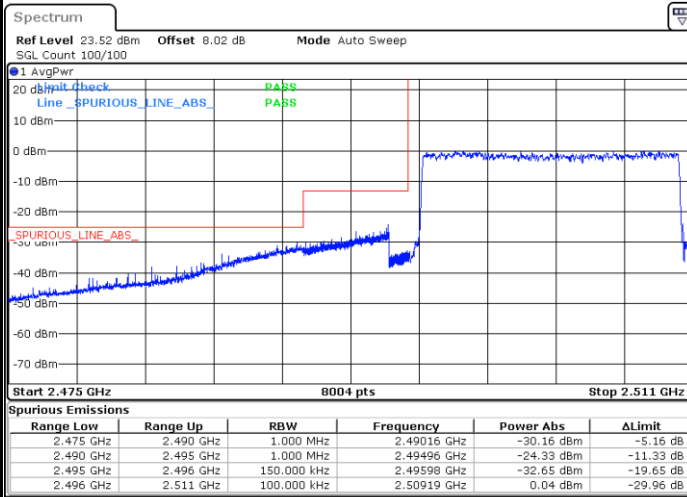
Date: 3.MAR.2022 07:32:33

Highest Band Edge / 1 RB



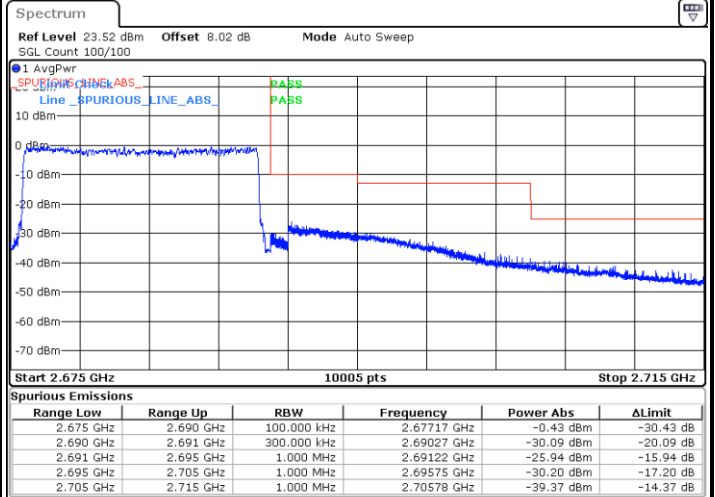
Date: 3.MAR.2022 07:41:17

Lowest Band Edge / Full RB



Date: 3.MAR.2022 07:30:18

Highest Band Edge / Full RB

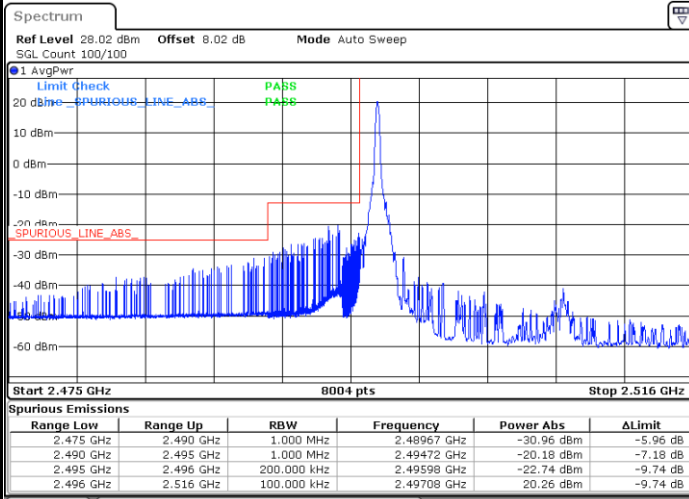


Date: 3.MAR.2022 07:41:50



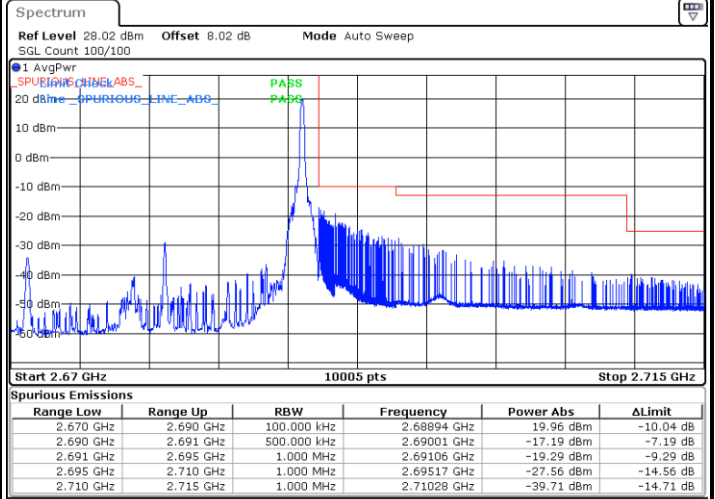
LTE Band 41 / 20MHz / QPSK

Lowest Band Edge / 1 RB



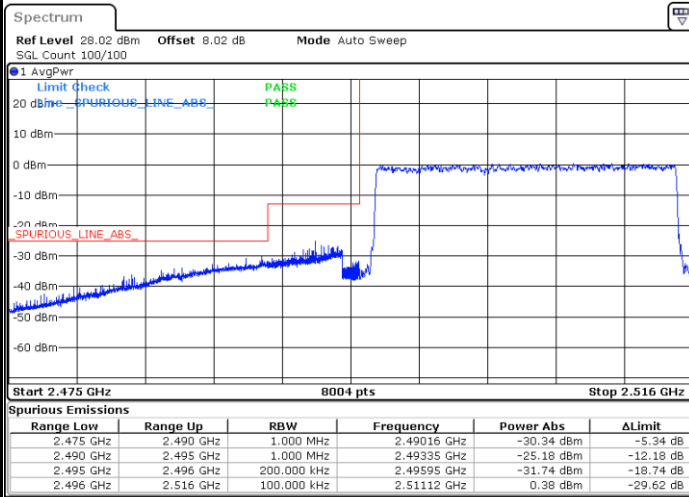
Date: 3.MAR.2022 07:46:59

Highest Band Edge / 1 RB



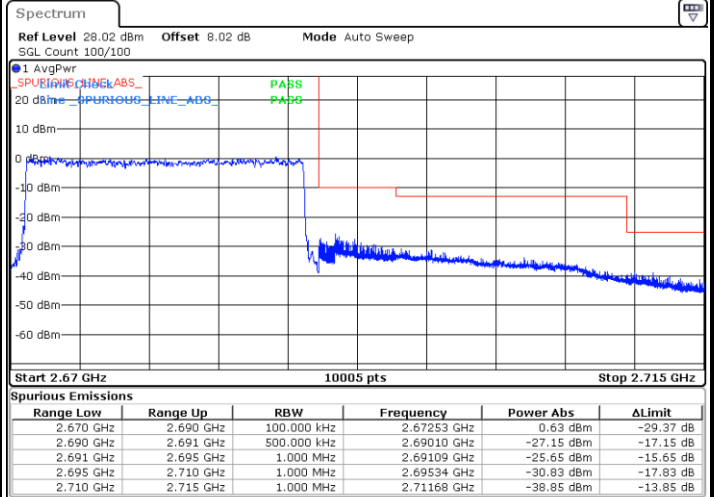
Date: 3.MAR.2022 07:53:11

Lowest Band Edge / Full RB



Date: 3.MAR.2022 07:44:17

Highest Band Edge / Full RB

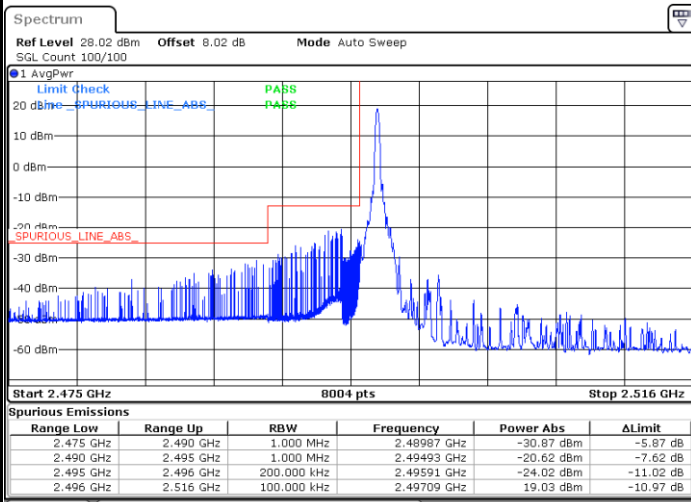


Date: 3.MAR.2022 07:57:52



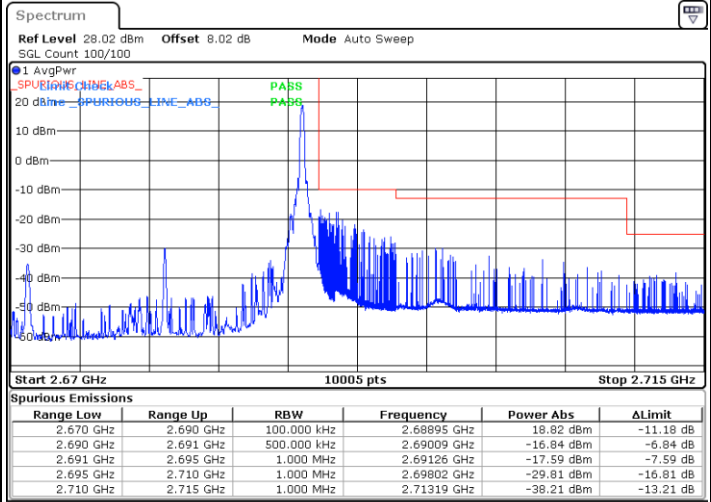
LTE Band 41 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



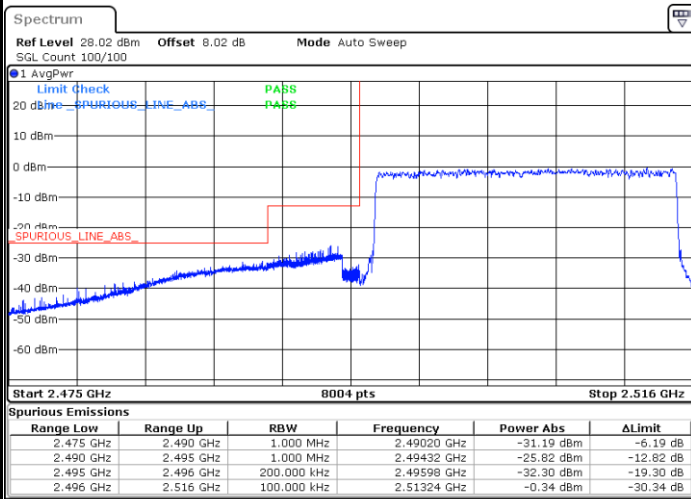
Date: 3.MAR.2022 07:46:31

Highest Band Edge / 1 RB



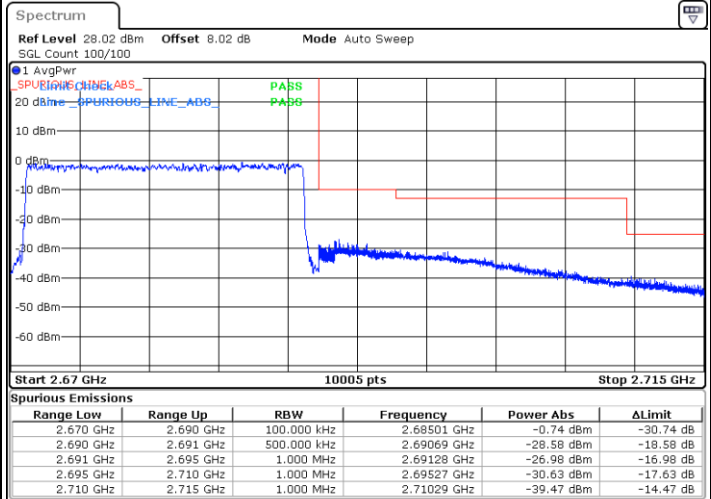
Date: 3.MAR.2022 07:53:44

Lowest Band Edge / Full RB



Date: 3.MAR.2022 07:44:49

Highest Band Edge / Full RB

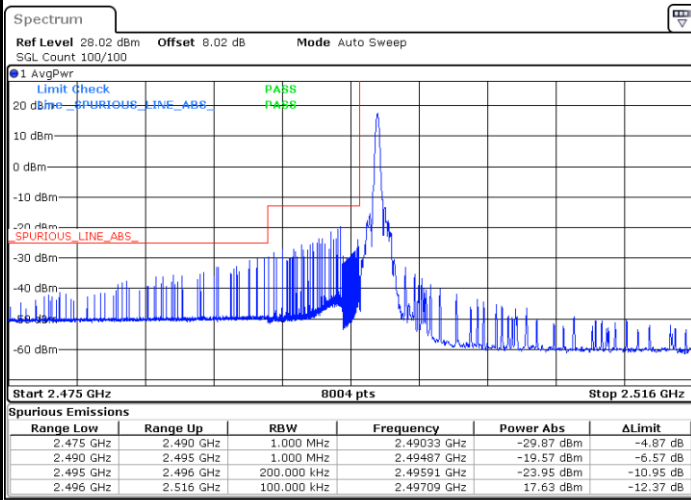


Date: 3.MAR.2022 07:57:11



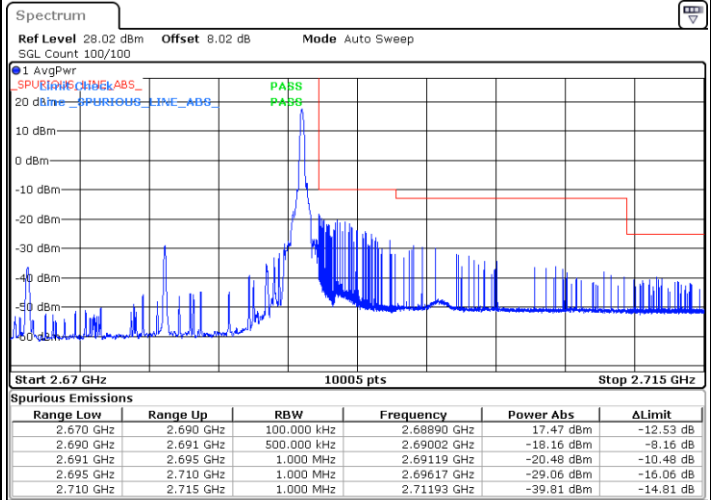
LTE Band 41 / 20MHz / 64QAM

Lowest Band Edge / 1 RB



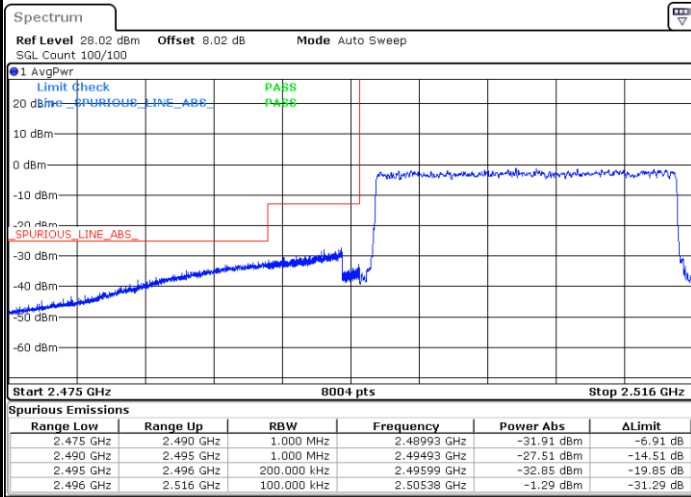
Date: 3.MAR.2022 07:46:00

Highest Band Edge / 1 RB



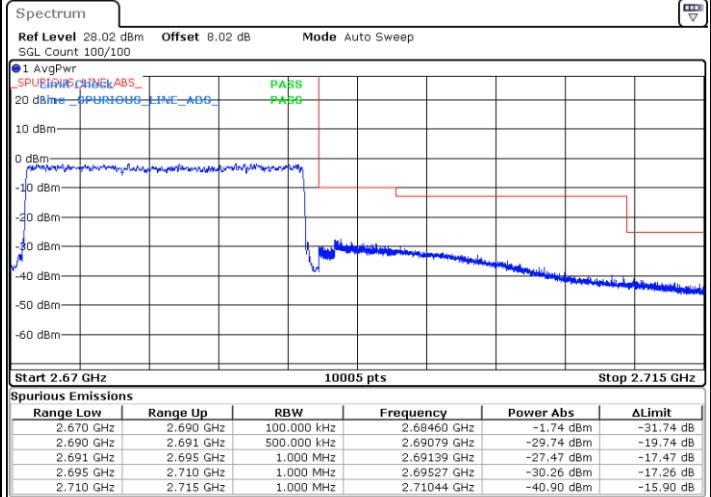
Date: 3.MAR.2022 07:54:18

Lowest Band Edge / Full RB



Date: 3.MAR.2022 07:45:21

Highest Band Edge / Full RB



Date: 3.MAR.2022 07:56:42

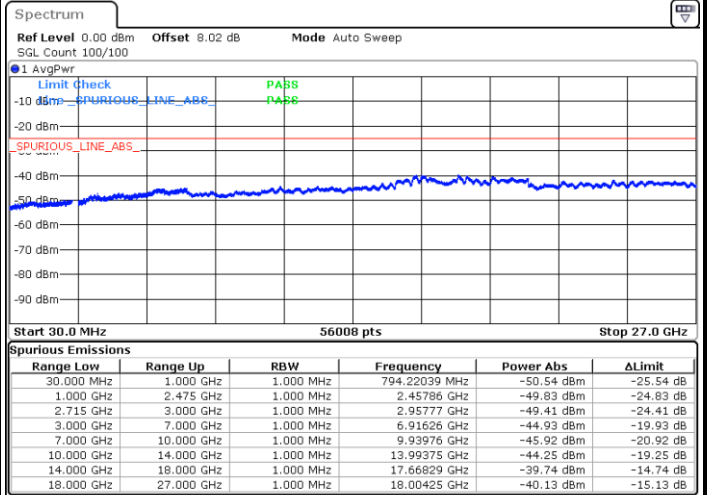
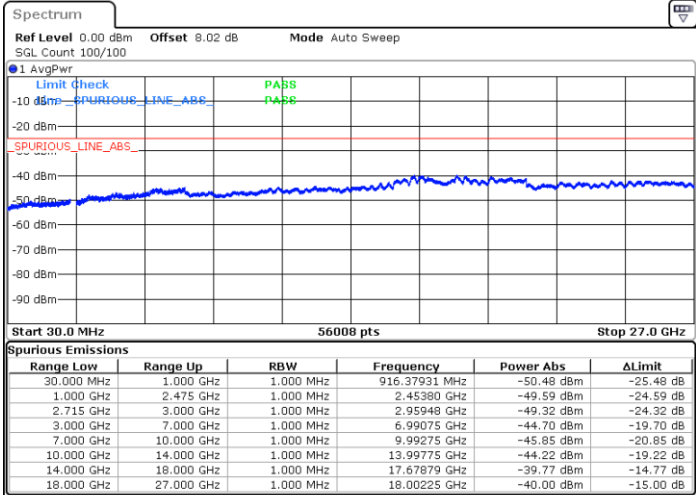


# Conducted Spurious Emission

## LTE Band 41 / 5MHz

### Lowest Channel / QPSK

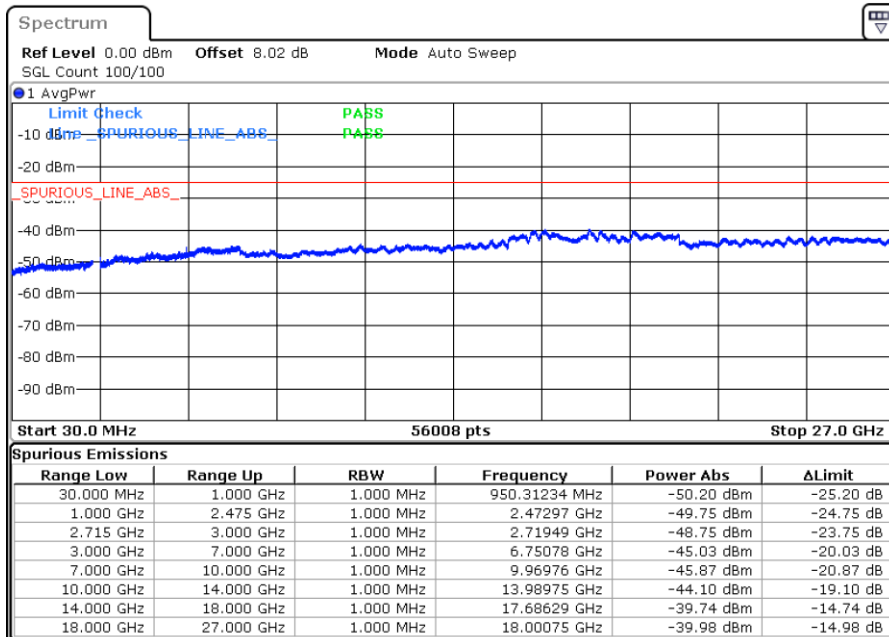
### Middle Channel / QPSK



Date: 3.MAR.2022 07:09:07

Date: 3.MAR.2022 07:07:16

### Highest Channel / QPSK



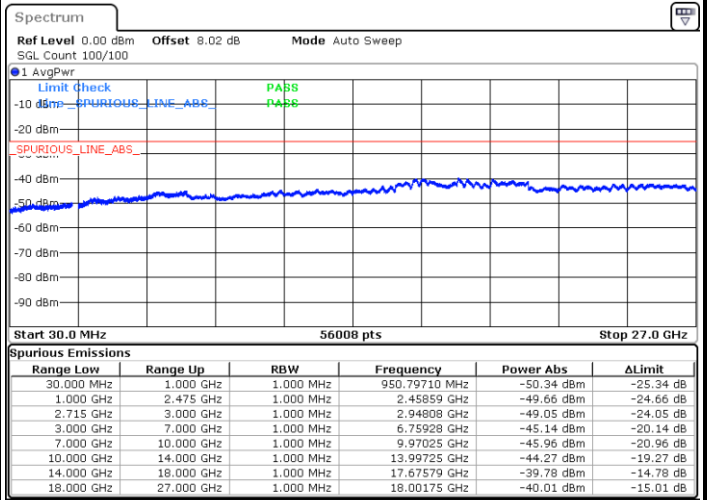
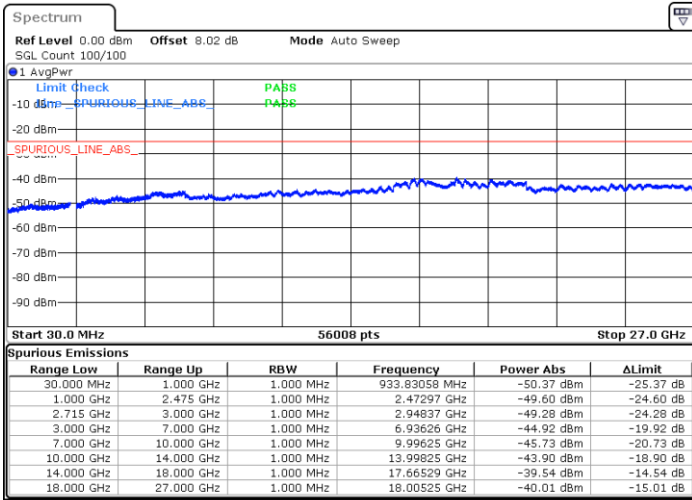
Date: 3.MAR.2022 07:11:49



LTE Band 41 / 10MHz

Lowest Channel / QPSK

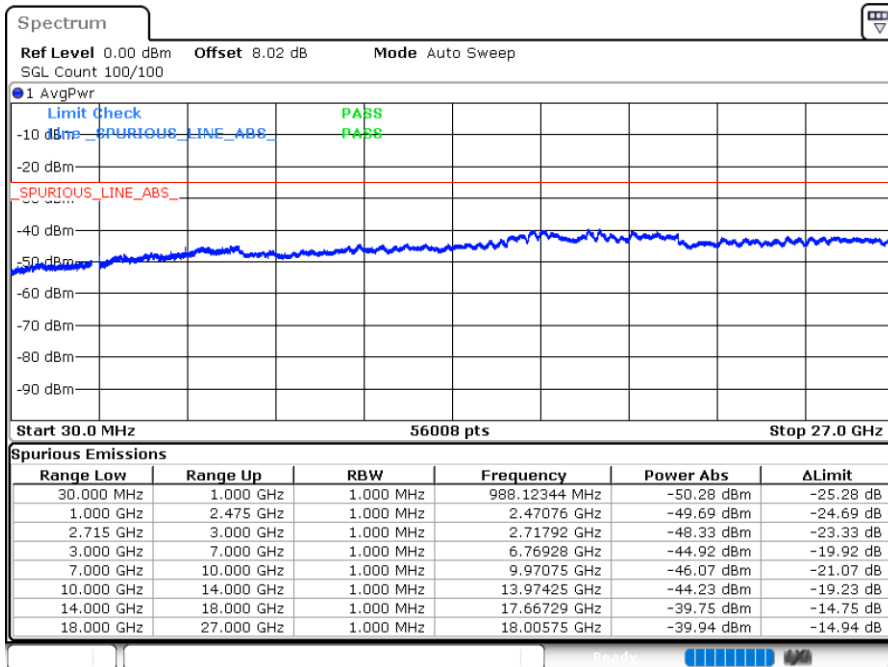
Middle Channel / QPSK



Date: 3.MAR.2022 07:19:42

Date: 3.MAR.2022 07:21:14

Highest Channel / QPSK



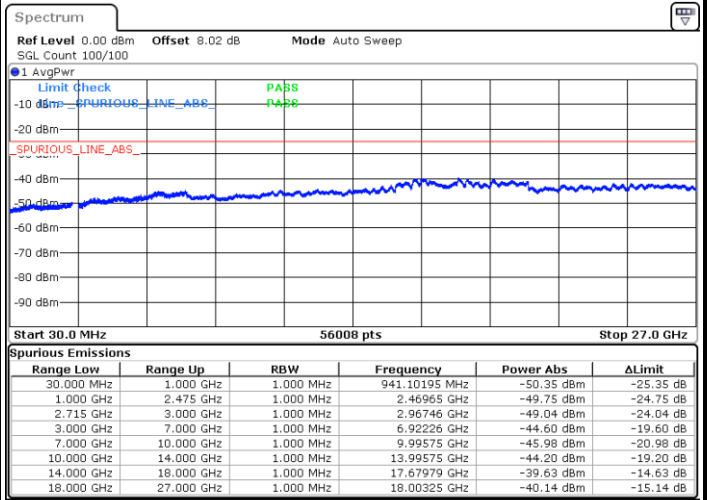
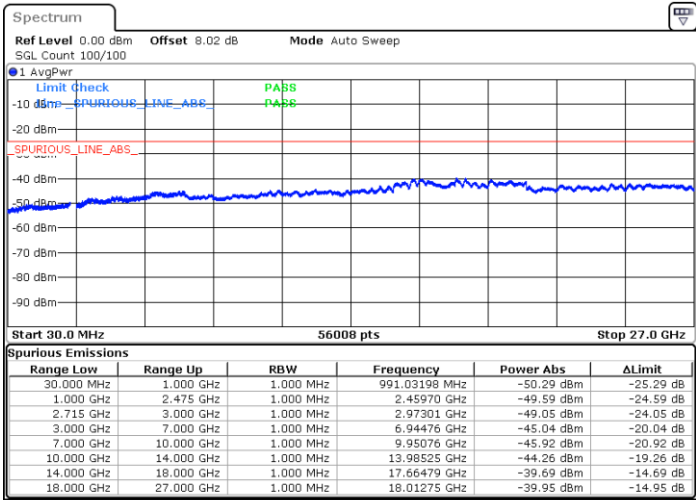
Date: 3.MAR.2022 07:22:47



LTE Band 41 / 15MHz

Lowest Channel / QPSK

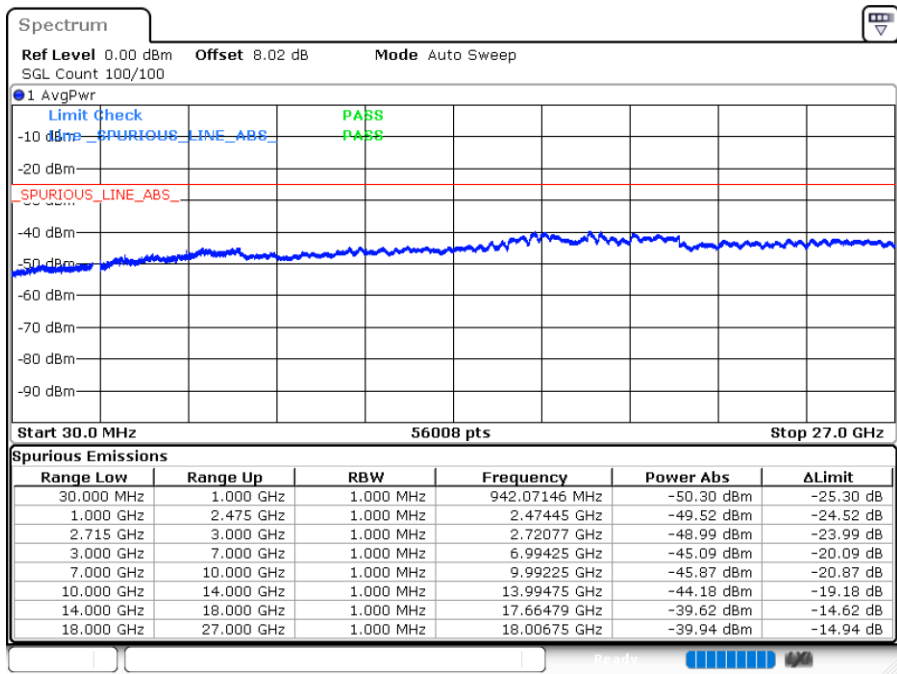
Middle Channel / QPSK



Date: 3.MAR.2022 07:36:14

Date: 3.MAR.2022 07:37:53

Highest Channel / QPSK



Date: 3.MAR.2022 07:39:27

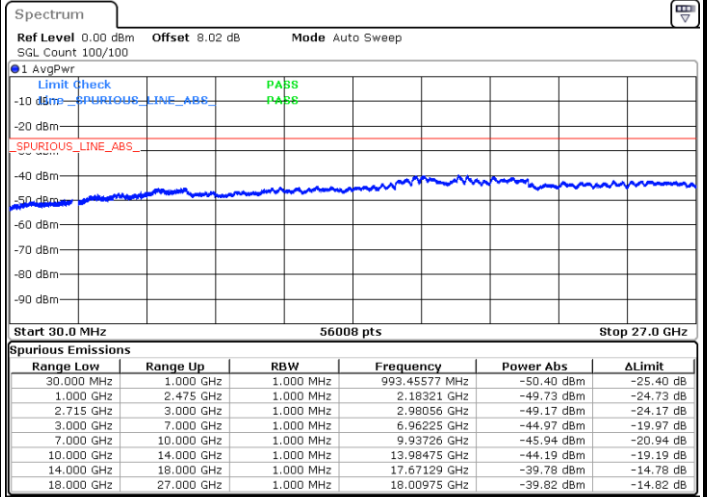
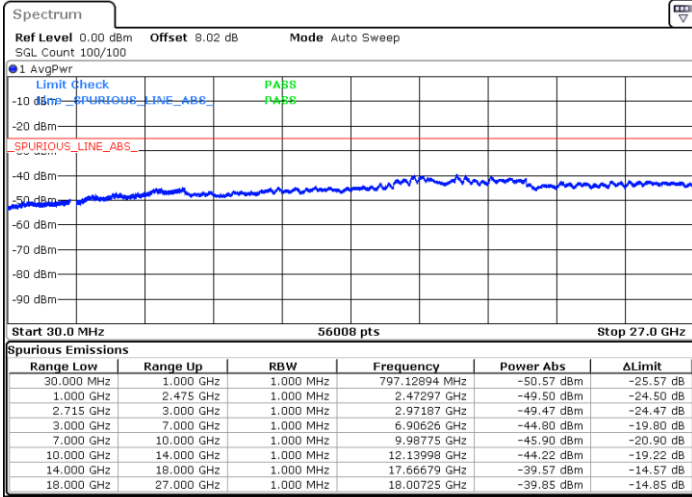




LTE Band 41 / 20MHz

Lowest Channel / QPSK

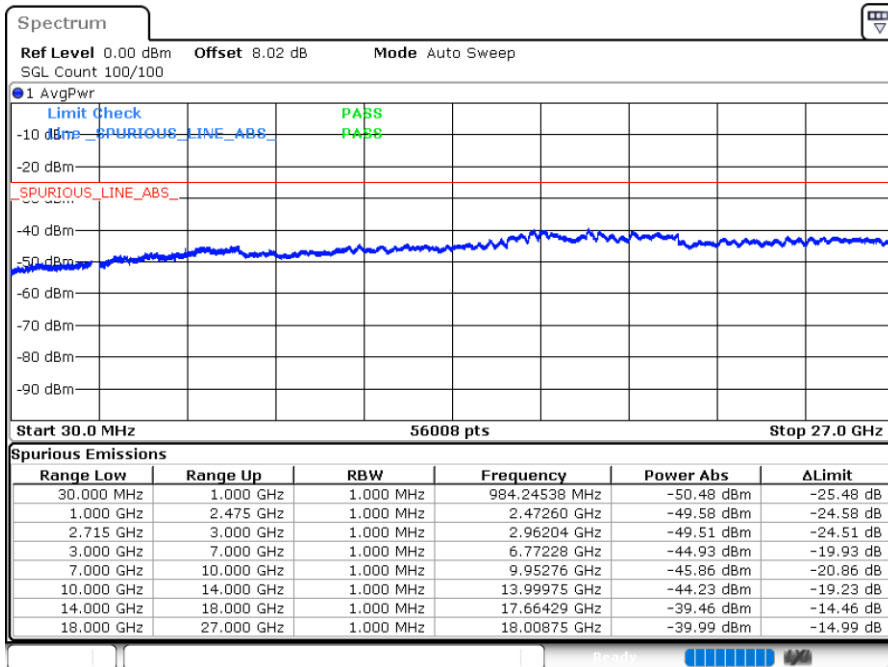
Middle Channel / QPSK



Date: 3.MAR.2022 07:49:08

Date: 3.MAR.2022 07:50:45

Highest Channel / QPSK



Date: 3.MAR.2022 07:52:21



Frequency Stability

Test Conditions		LTE Band 41 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0025	PASS
40	Normal Voltage	0.0013	
30	Normal Voltage	0.0007	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0005	
0	Normal Voltage	0.0011	
-10	Normal Voltage	0.0021	
-20	Normal Voltage	0.0017	
-30	Normal Voltage	0.0027	
20	Maximum Voltage	0.0017	
20	Normal Voltage	0.0011	
20	Battery End Point	0.0009	

Note:

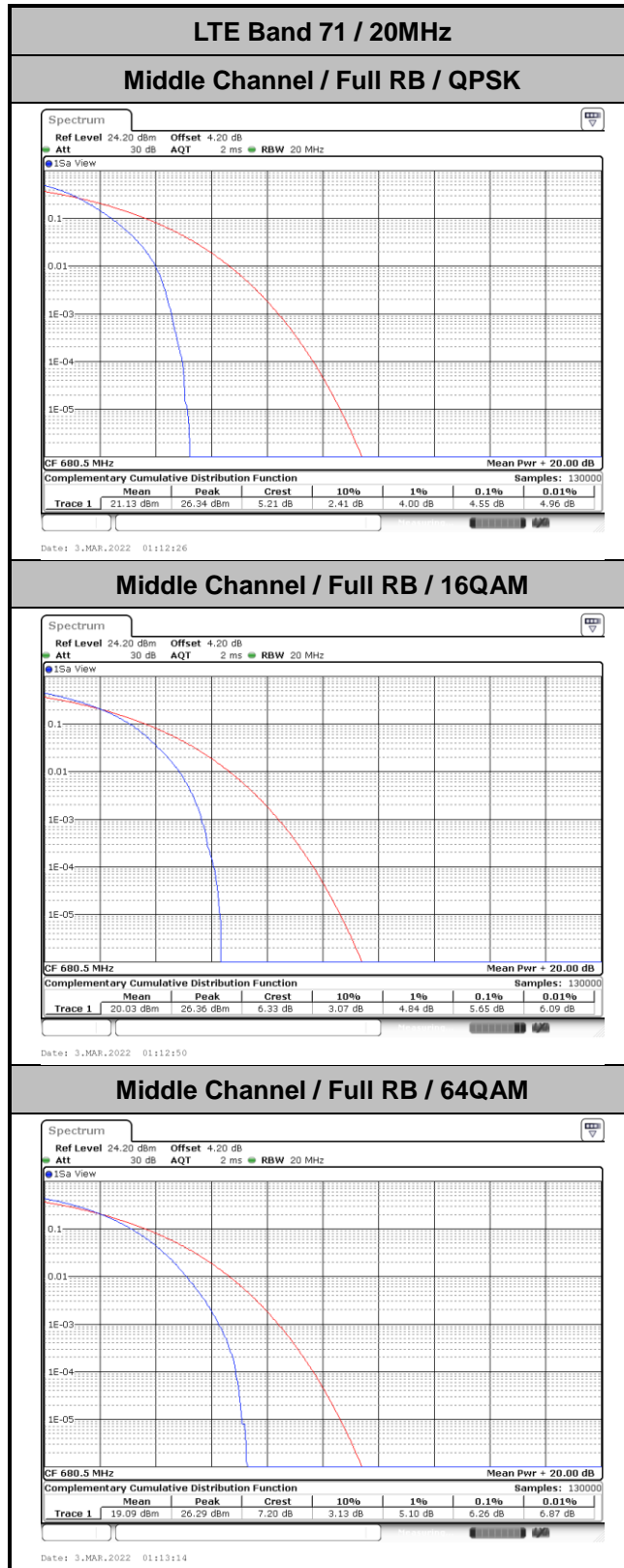
1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.5 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



## LTE Band 71

### Peak-to-Average Ratio

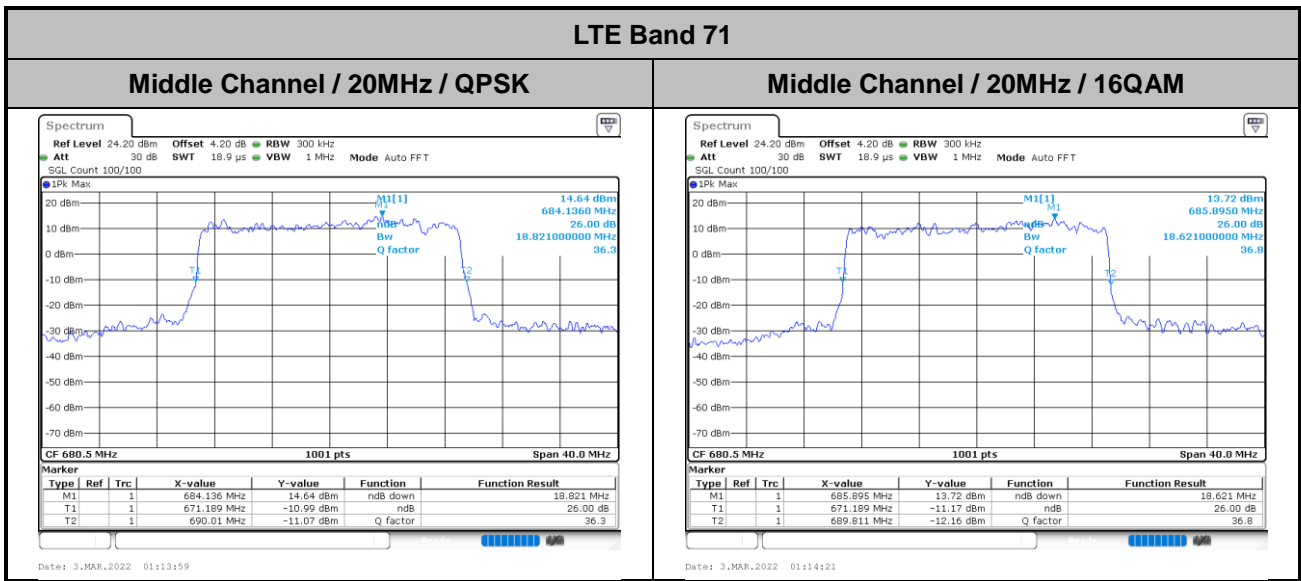
Mode	LTE Band 71 / 20MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	4.55	5.65	6.26	<b>PASS</b>





**26dB Bandwidth**

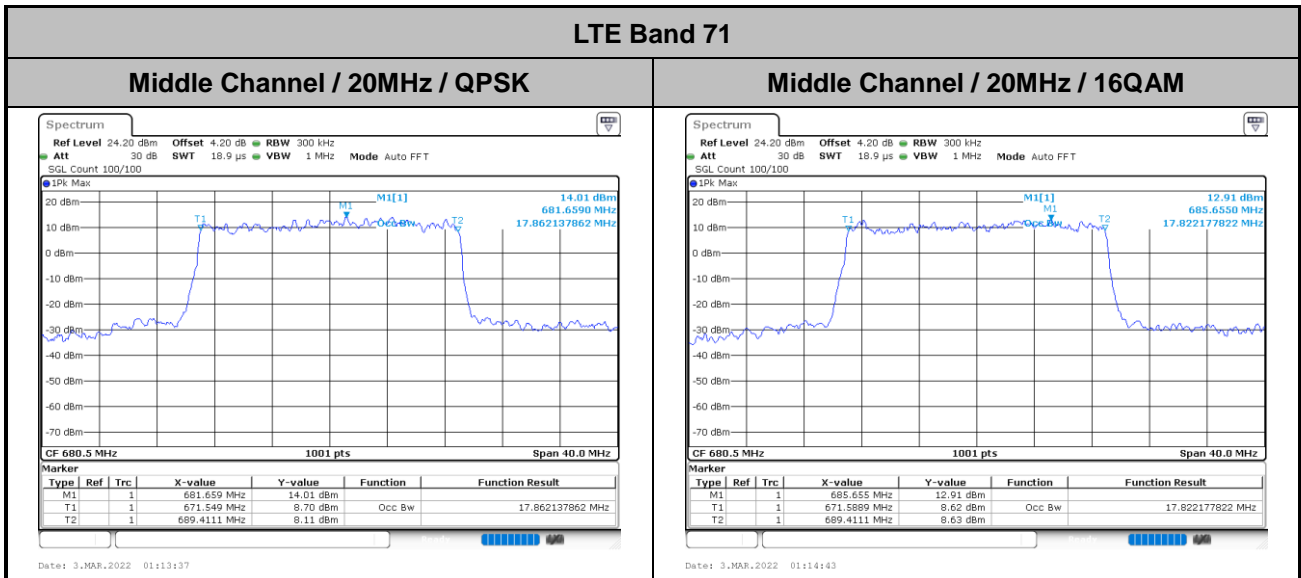
Mode	LTE Band 71 : 26dB BW(MHz)	
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	18.82	18.62





# Occupied Bandwidth

<b>Mode</b>	<b>LTE Band 71 : 99%OBW(MHz)</b>	
<b>BW</b>	<b>20MHz</b>	
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>
<b>Middle CH</b>	<b>17.86</b>	<b>17.82</b>

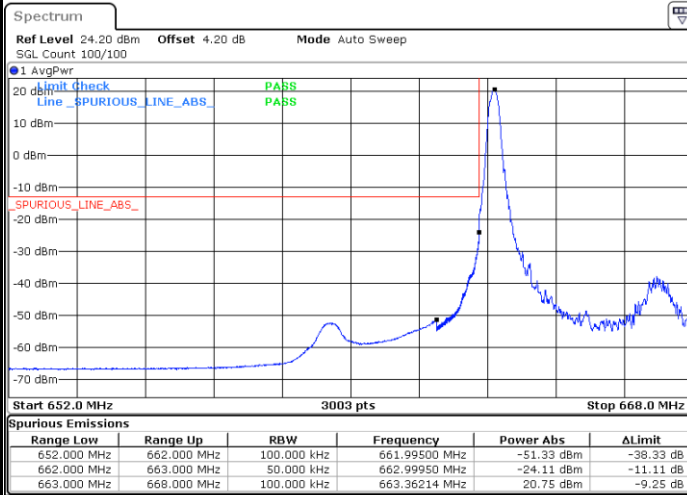




# Conducted Band Edge

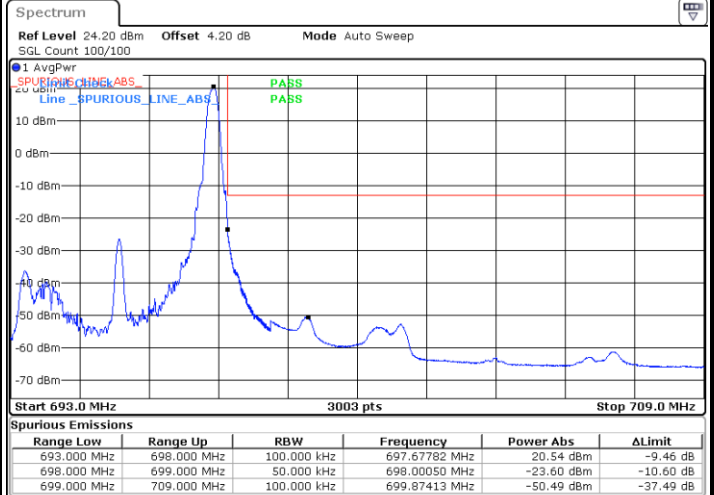
## LTE Band 71 / 5MHz / QPSK

### Lowest Band Edge / 1 RB



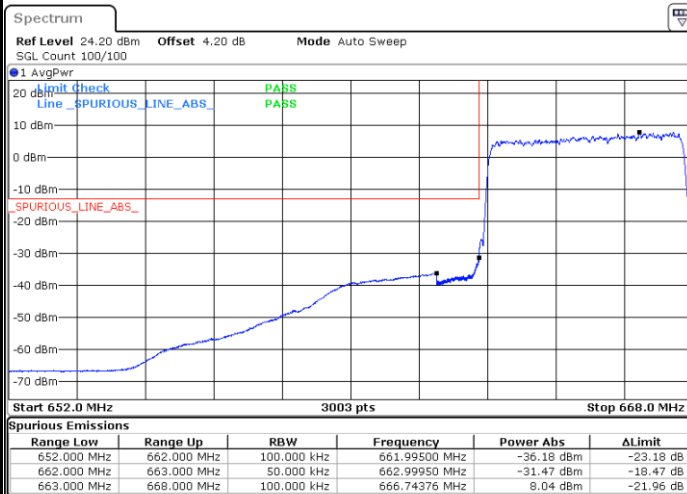
Date: 2.MAR.2022 23:36:49

### Highest Band Edge / 1 RB



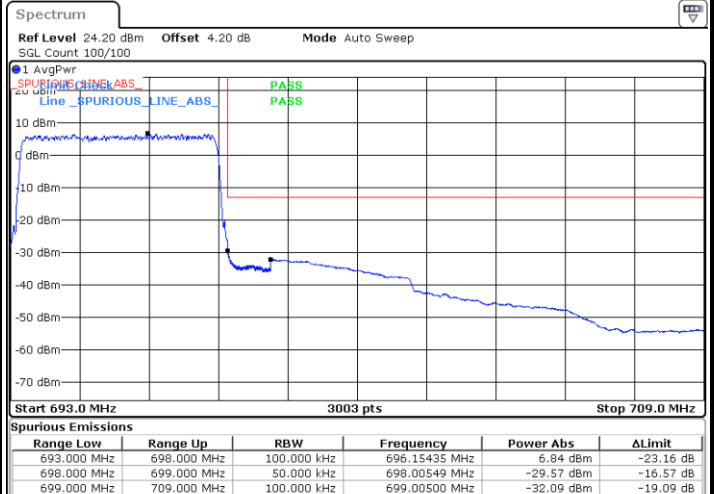
Date: 2.MAR.2022 23:46:12

### Lowest Band Edge / Full RB



Date: 2.MAR.2022 23:40:11

### Highest Band Edge / Full RB

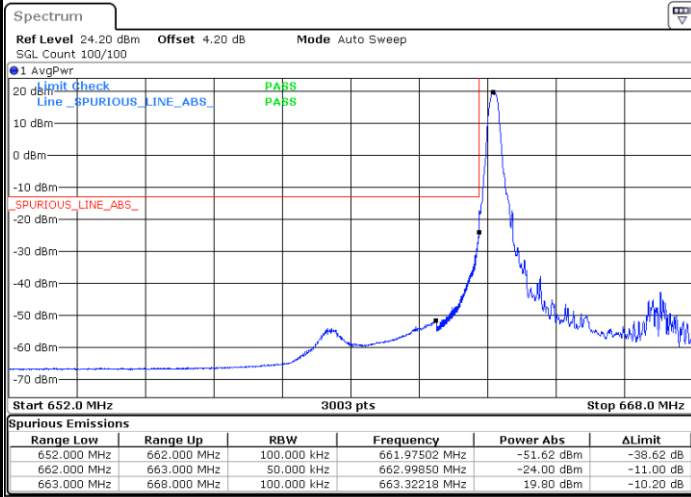


Date: 2.MAR.2022 23:49:34



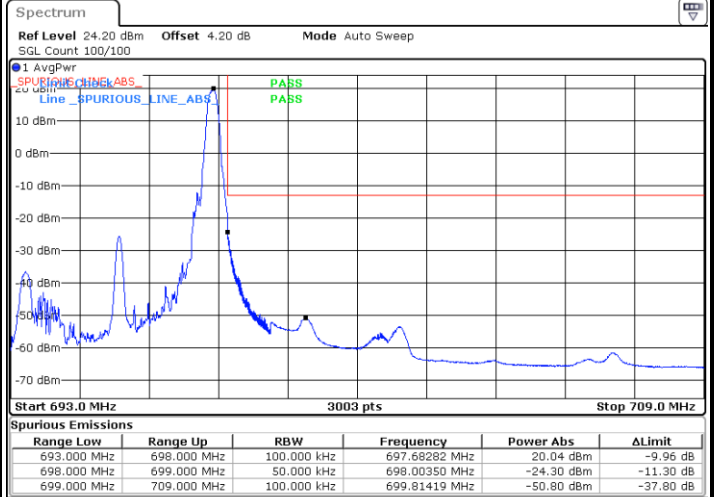
LTE Band 71 / 5MHz / 16QAM

Lowest Band Edge / 1 RB



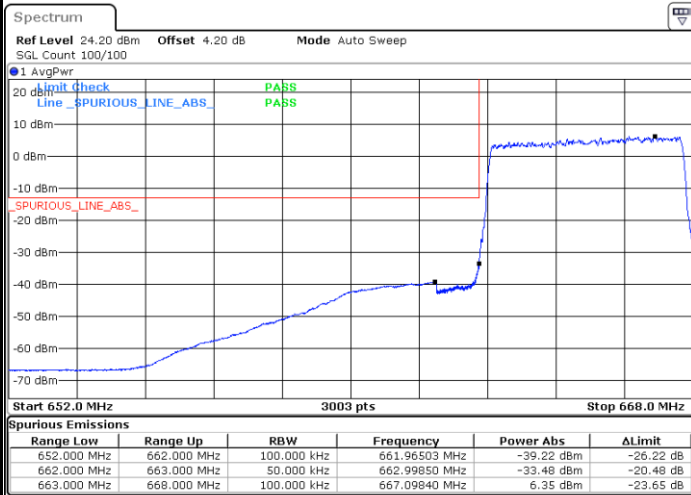
Date: 2.MAR.2022 23:38:30

Highest Band Edge / 1 RB



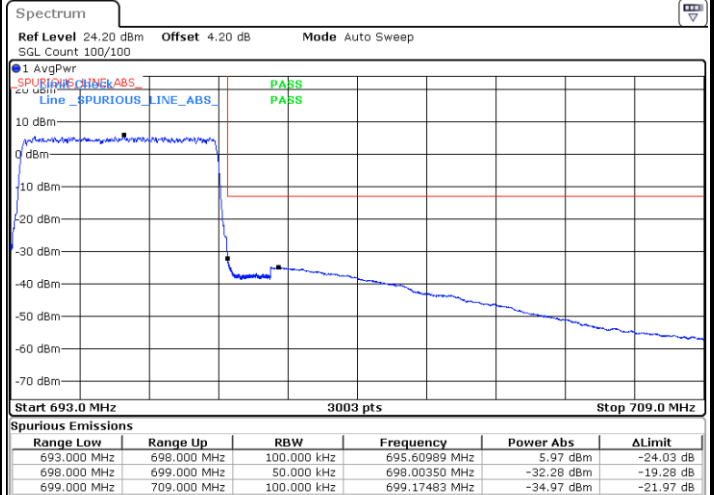
Date: 2.MAR.2022 23:47:53

Lowest Band Edge / Full RB



Date: 2.MAR.2022 23:41:52

Highest Band Edge / Full RB



Date: 2.MAR.2022 23:51:15