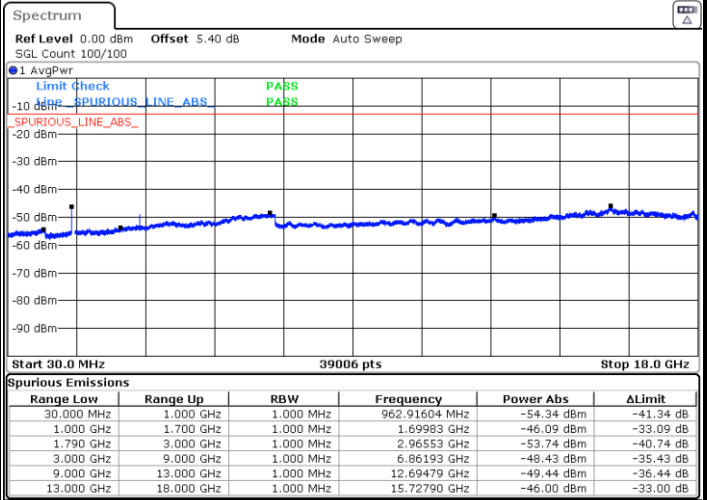
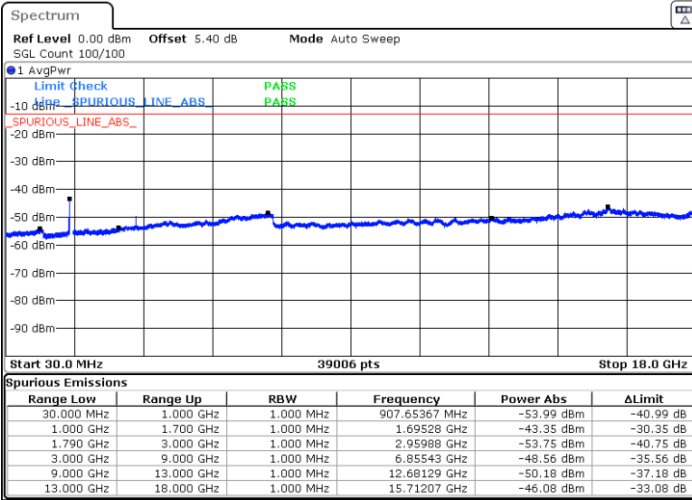




LTE Band 66 / 20MHz

Lowest Channel / QPSK

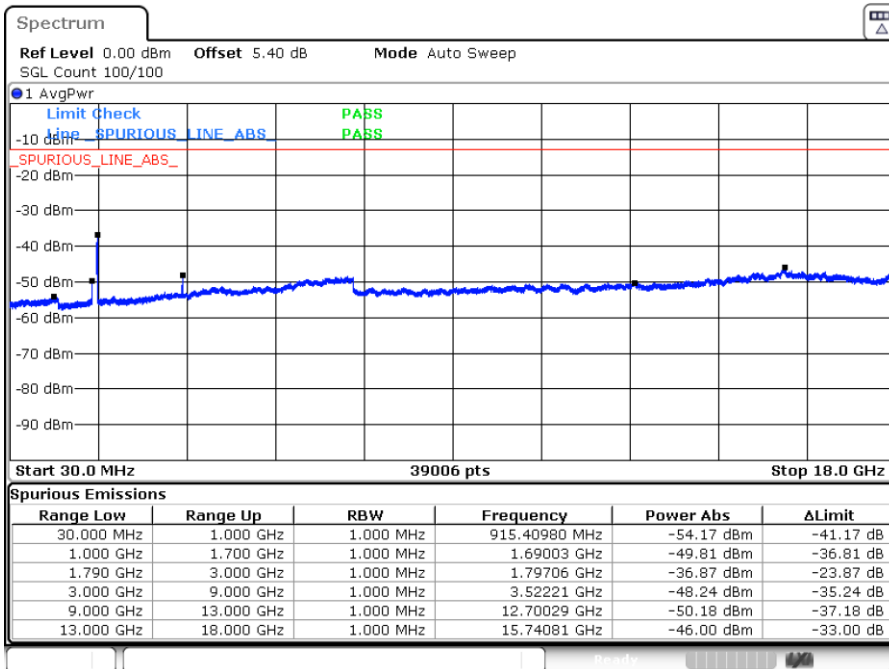
Middle Channel / QPSK



Date: 27.JUL.2022 19:33:35

Date: 27.JUL.2022 19:36:24

Highest Channel / QPSK



Date: 27.JUL.2022 19:46:20



Frequency Stability

Test Conditions		LTE Band 66 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0036	PASS
40	Normal Voltage	0.0021	
30	Normal Voltage	0.0042	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0014	
0	Normal Voltage	0.0038	
-10	Normal Voltage	0.0056	
-20	Normal Voltage	0.0037	
-30	Normal Voltage	0.0043	
20	Maximum Voltage	0.0055	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0026	

Note:

1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.45 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

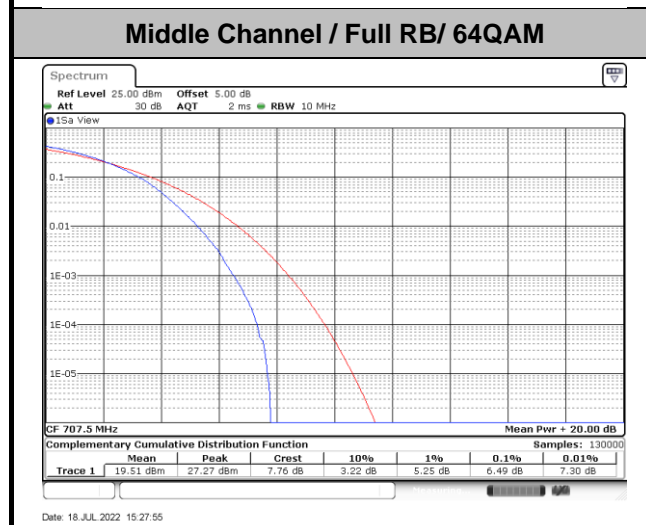
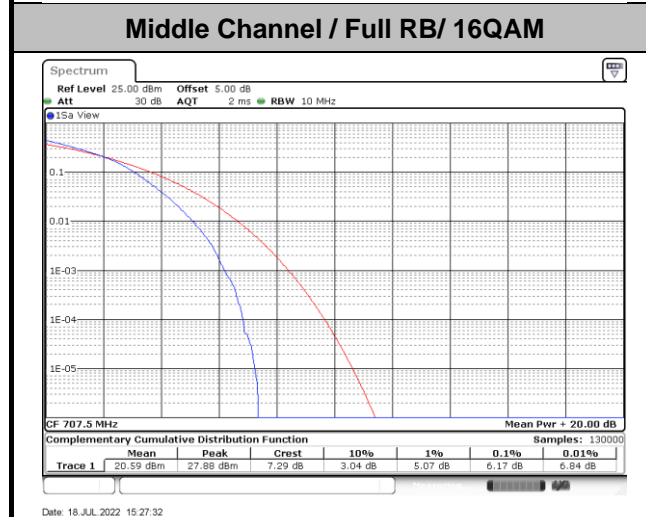
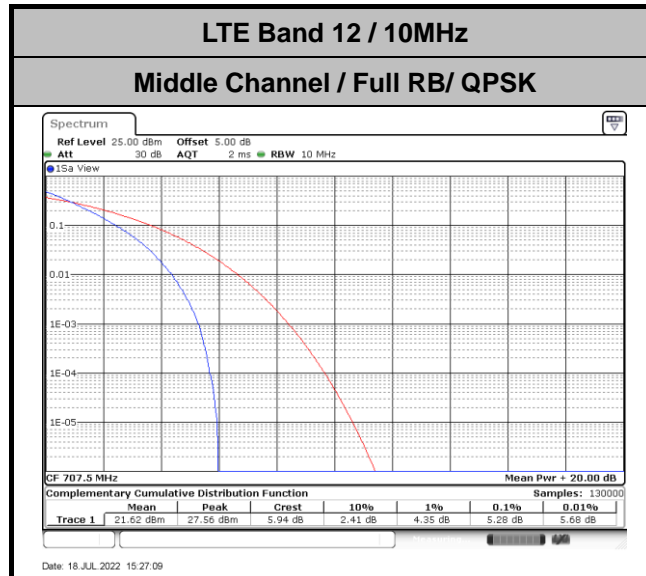


## For Sample 2

## LTE Band 12

### Peak-to-Average Ratio

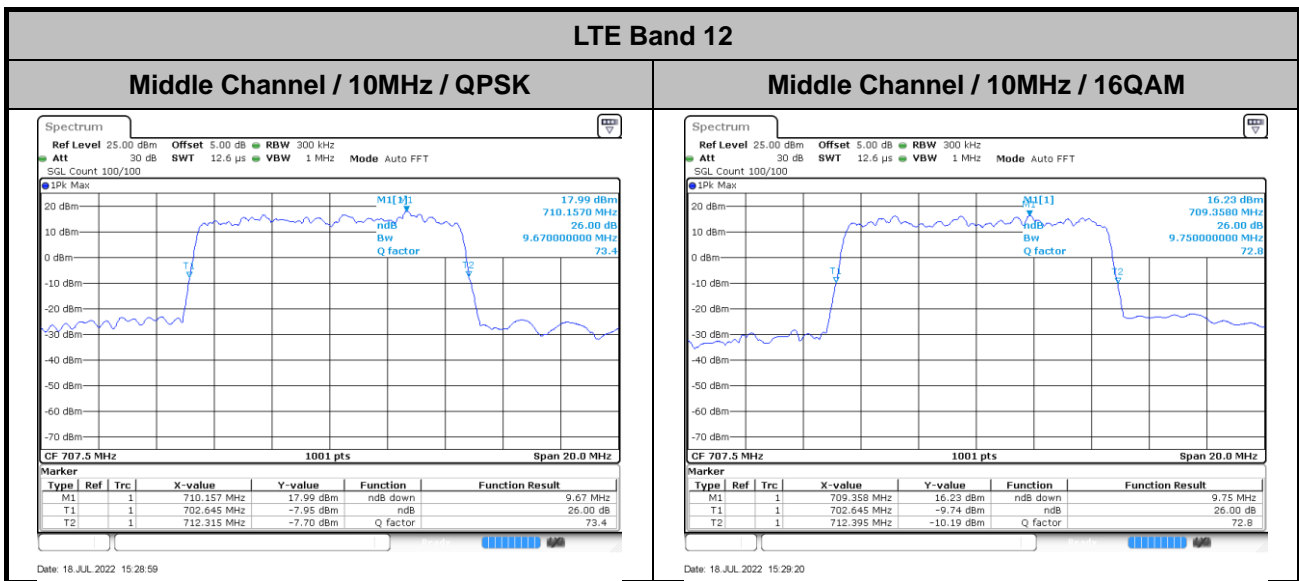
Mode	LTE Band 12 / 10MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	5.28	6.17	6.49	<b>PASS</b>





## 26dB Bandwidth

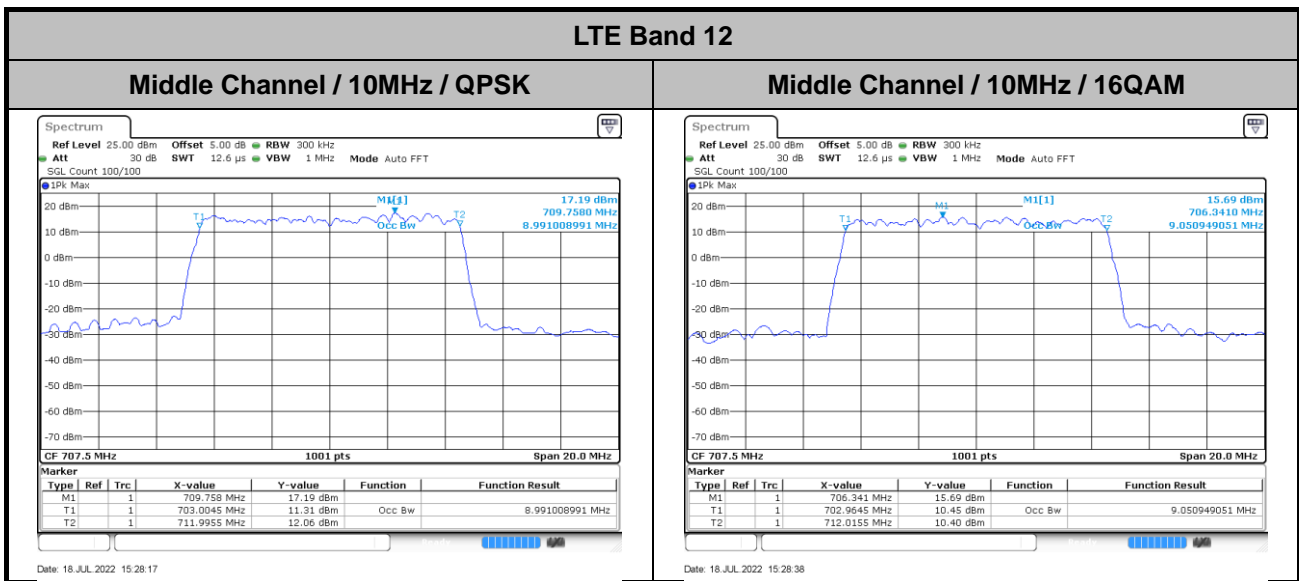
<b>Mode</b>	<b>LTE Band 12 : 26dB BW(MHz)</b>	
<b>BW</b>	<b>10MHz</b>	
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>
<b>Middle CH</b>	9.67	9.75





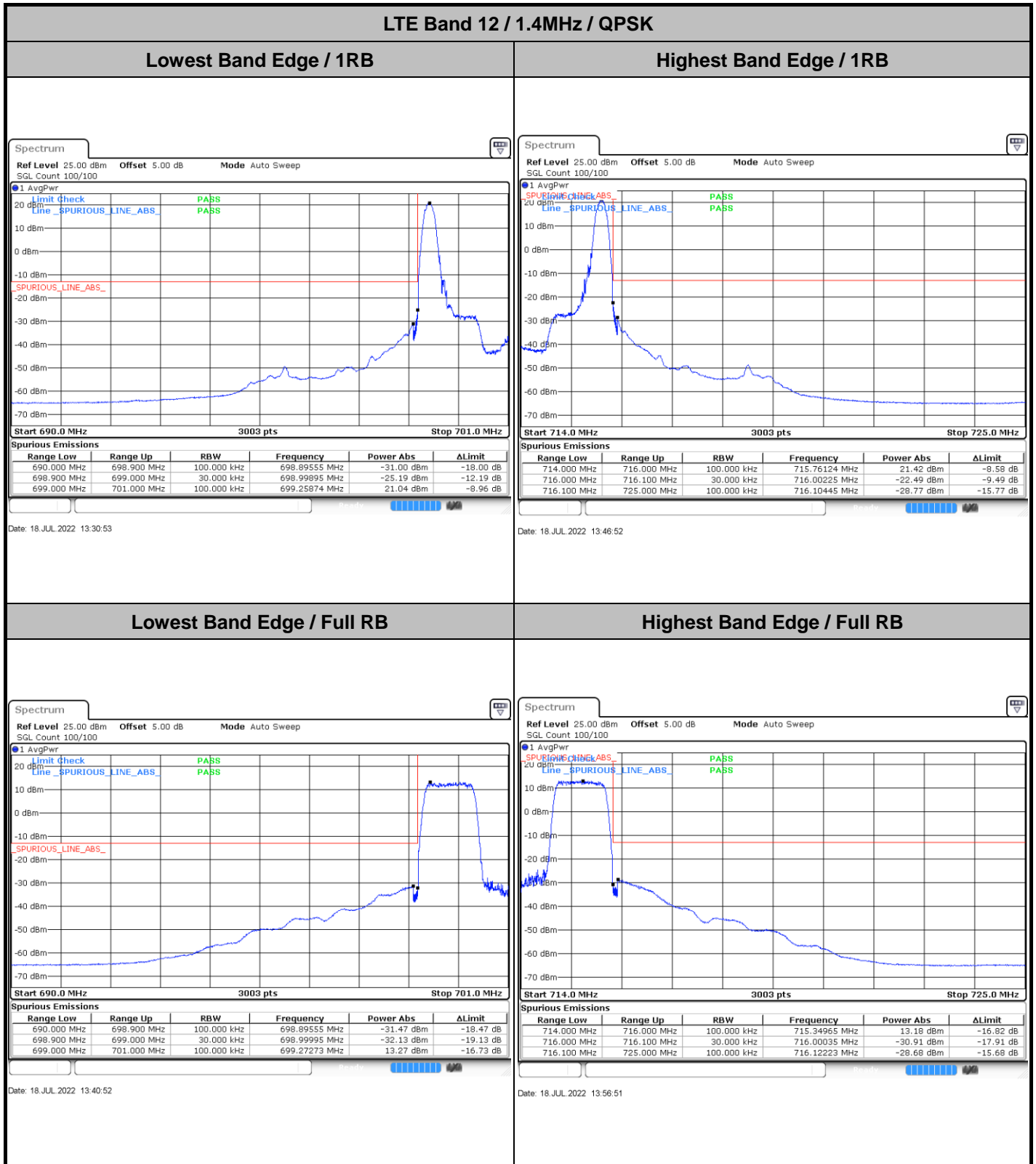
# Occupied Bandwidth

Mode	LTE Band 12 : 99%OBW(MHz)	
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	8.99	9.05





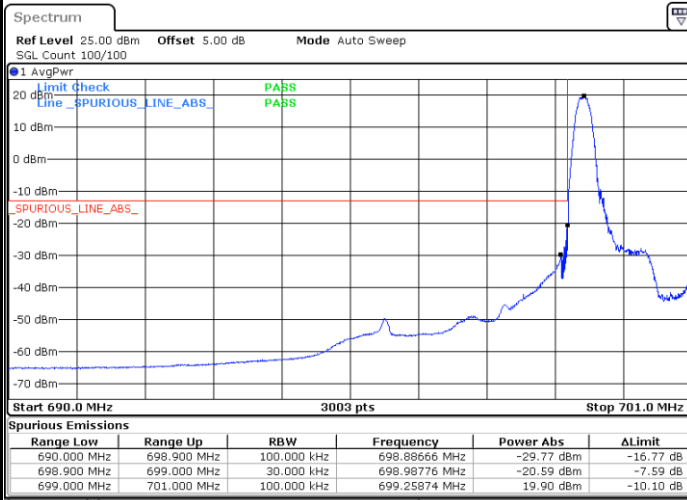
# Conducted Band Edge





LTE Band 12 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



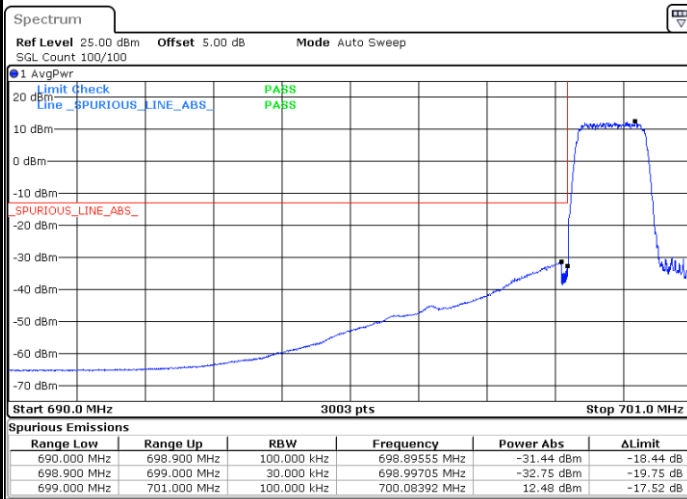
Date: 18 JUL 2022 13:32:53

Highest Band Edge / 1 RB



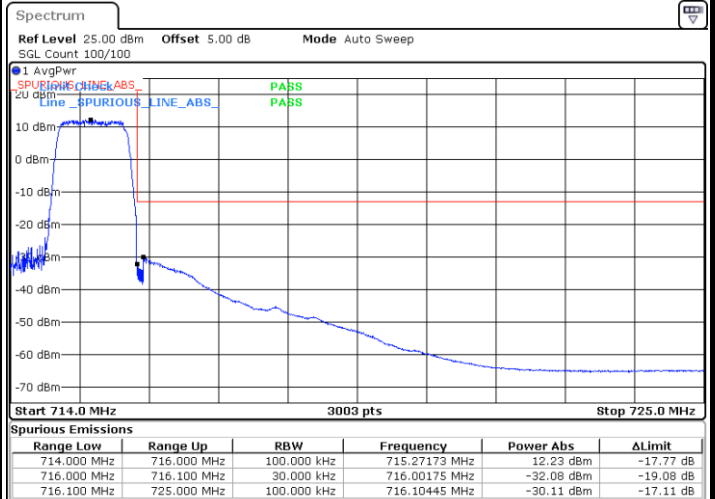
Date: 18 JUL 2022 13:48:52

Lowest Band Edge / Full RB



Date: 18 JUL 2022 13:38:52

Highest Band Edge / Full RB



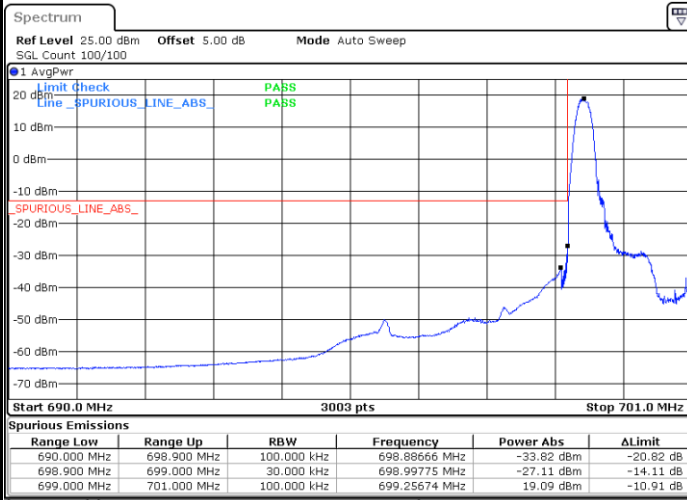
Date: 18 JUL 2022 13:54:51





LTE Band 12 / 1.4MHz / 64QAM

Lowest Band Edge / 1 RB



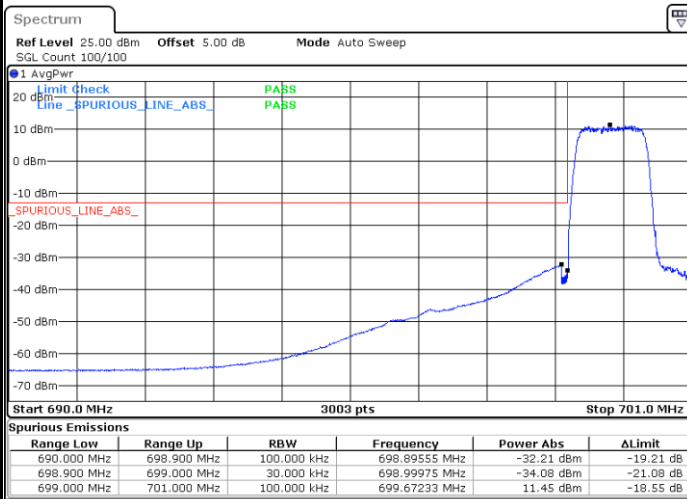
Date: 18 JUL 2022 13:34:53

Highest Band Edge / 1 RB



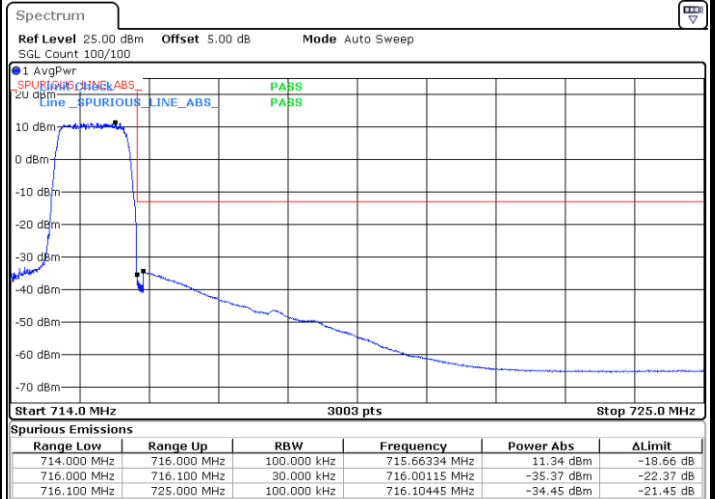
Date: 18 JUL 2022 13:50:51

Lowest Band Edge / Full RB



Date: 18 JUL 2022 13:36:52

Highest Band Edge / Full RB

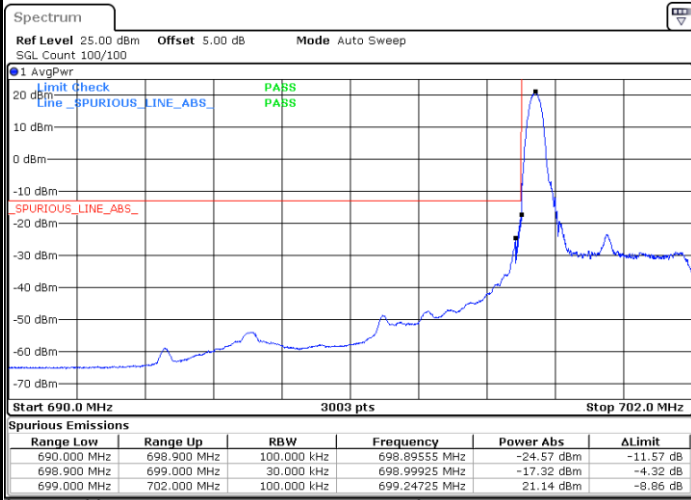


Date: 18 JUL 2022 13:52:51



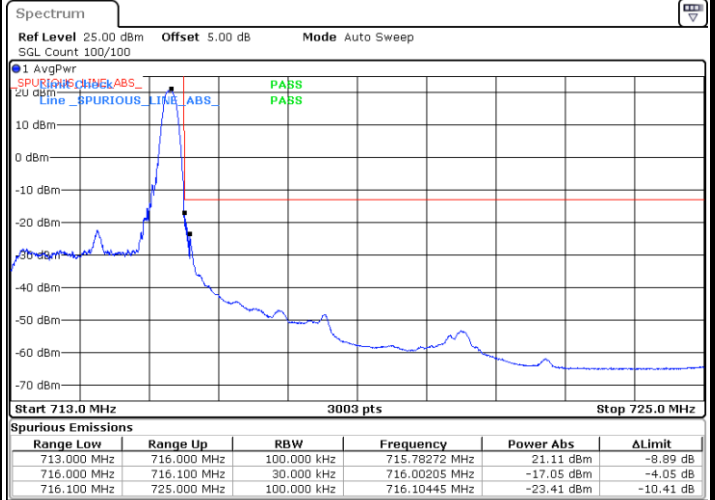
LTE Band 12 / 3MHz / QPSK

Lowest Band Edge / 1RB



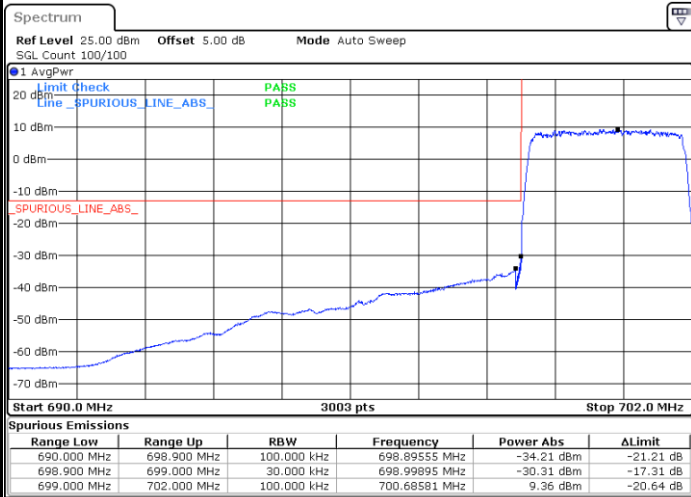
Date: 18 JUL 2022 14:00:52

Highest Band Edge / 1 RB



Date: 18 JUL 2022 14:16:51

Lowest Band Edge / Full RB



Date: 18 JUL 2022 14:10:51

Highest Band Edge / Full RB

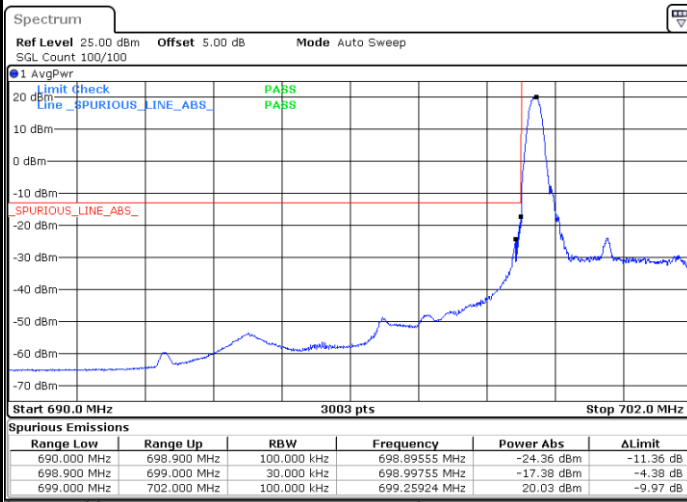


Date: 18 JUL 2022 14:26:50



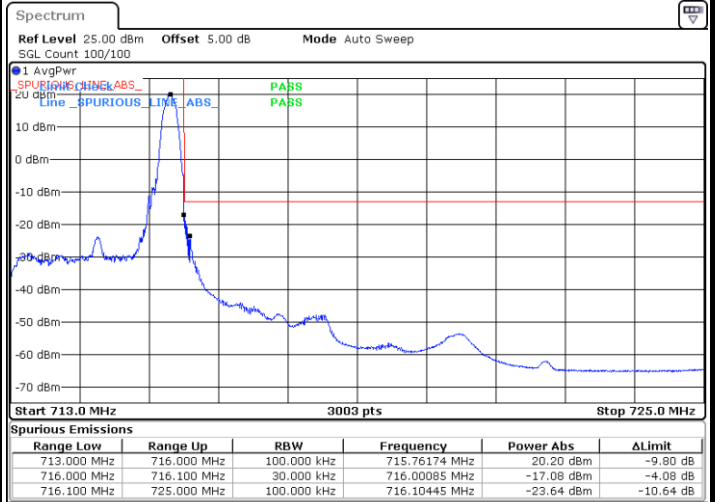
LTE Band 12 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



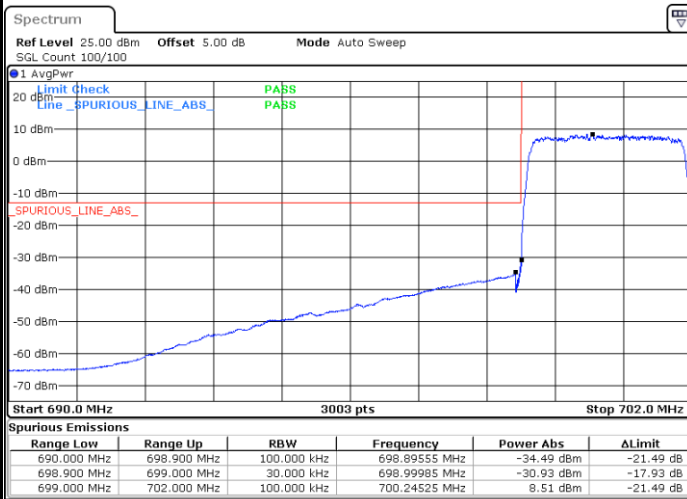
Date: 18 JUL 2022 14:02:51

Highest Band Edge / 1 RB



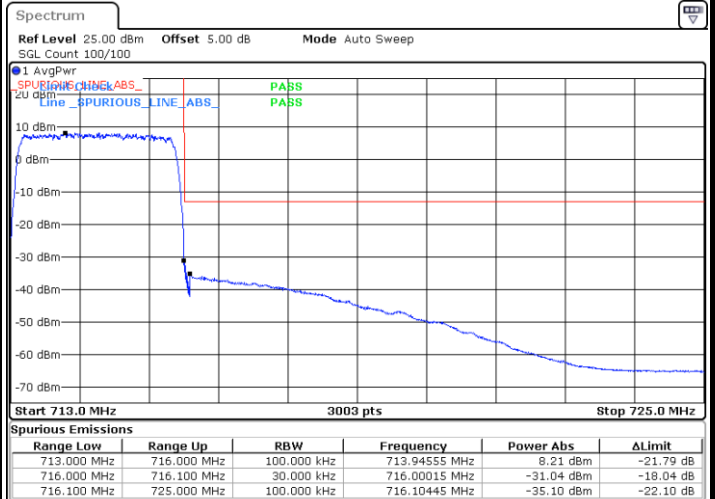
Date: 18 JUL 2022 14:18:50

Lowest Band Edge / Full RB



Date: 18 JUL 2022 14:08:51

Highest Band Edge / Full RB

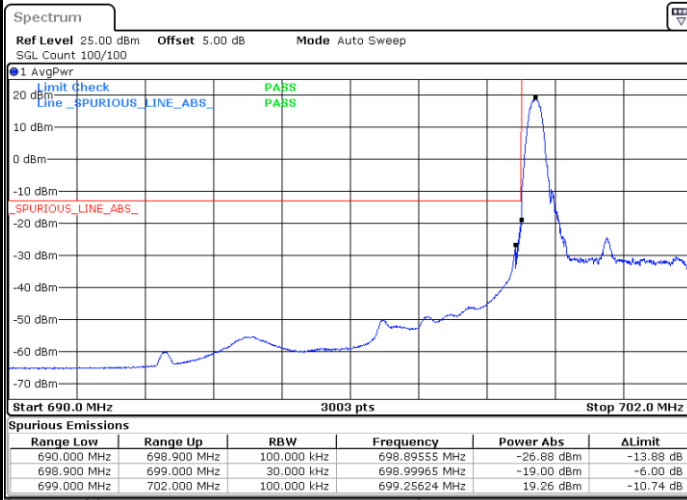


Date: 18 JUL 2022 14:24:50



LTE Band 12 / 3MHz / 64QAM

Lowest Band Edge / 1 RB



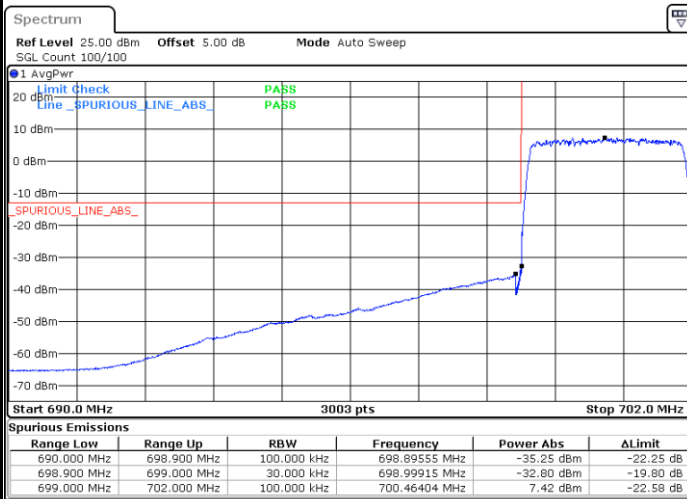
Date: 18 JUL 2022 14:04:51

Highest Band Edge / 1 RB



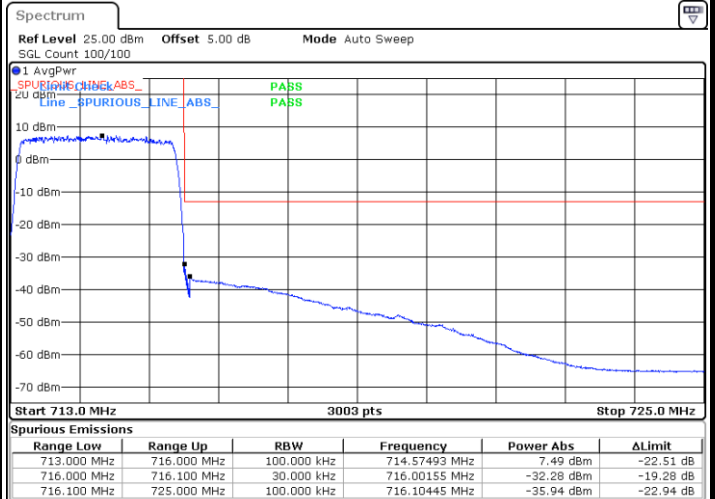
Date: 18 JUL 2022 14:20:50

Lowest Band Edge / Full RB



Date: 18 JUL 2022 14:06:51

Highest Band Edge / Full RB

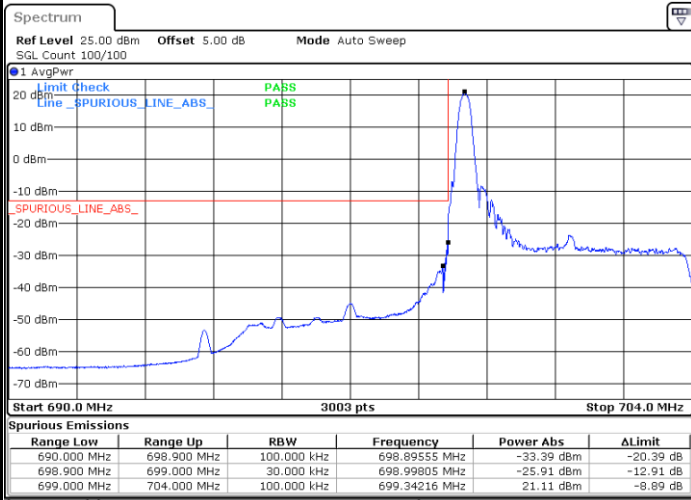


Date: 18 JUL 2022 14:22:50



LTE Band 12 / 5MHz / QPSK

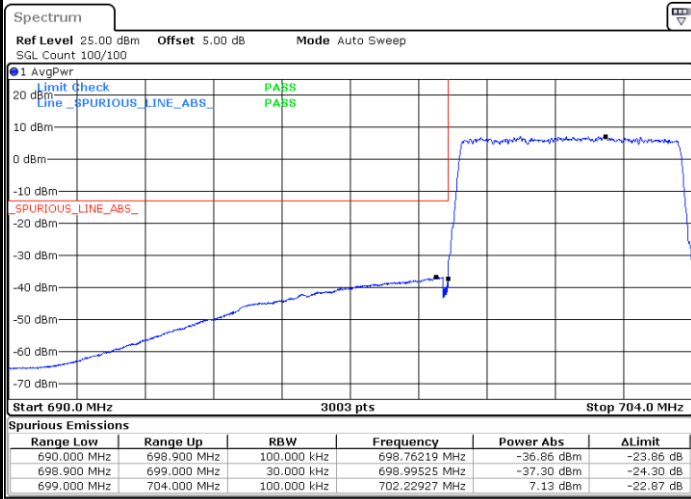
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



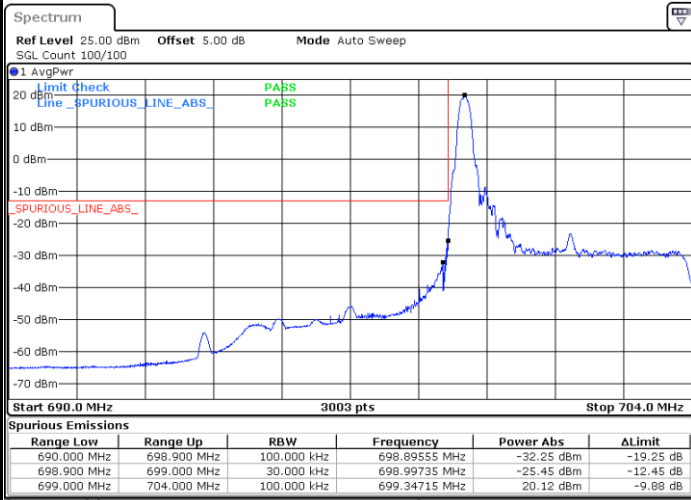
Highest Band Edge / Full RB





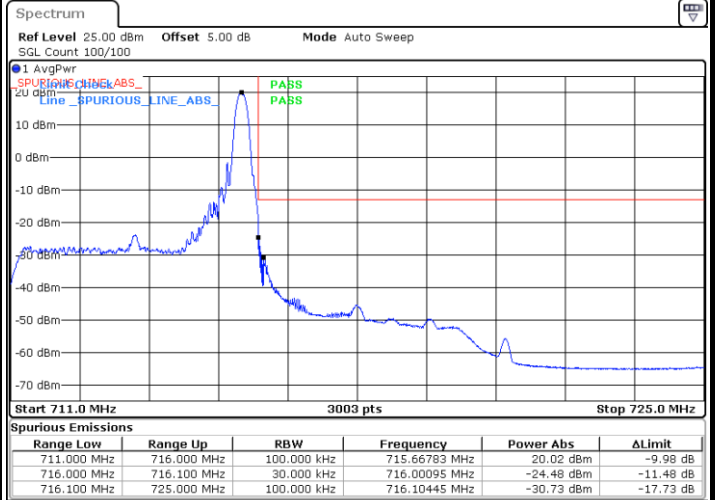
LTE Band 12 / 5MHz / 16QAM

Lowest Band Edge / 1RB



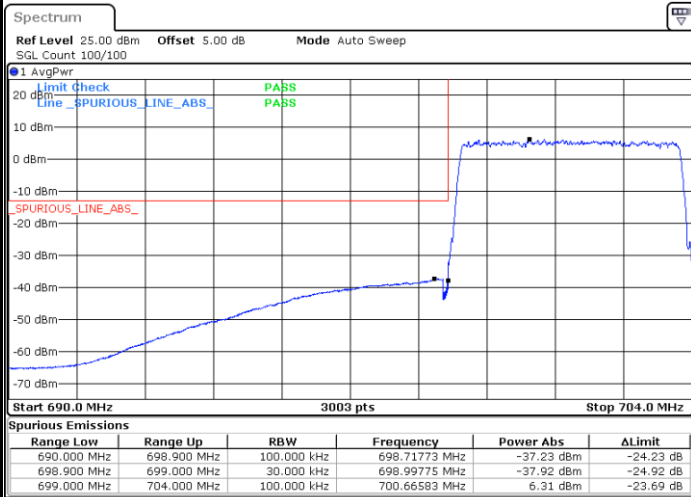
Date: 18 JUL 2022 14:32:50

Highest Band Edge / 1 RB



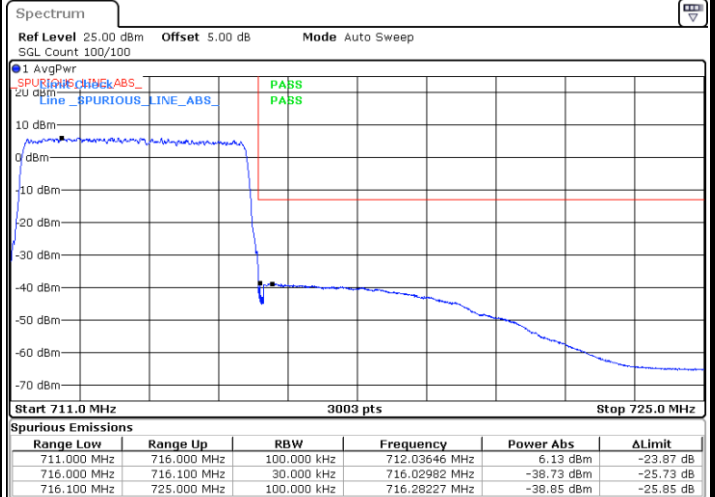
Date: 18 JUL 2022 14:48:49

Lowest Band Edge / Full RB



Date: 18 JUL 2022 14:38:50

Highest Band Edge / Full RB

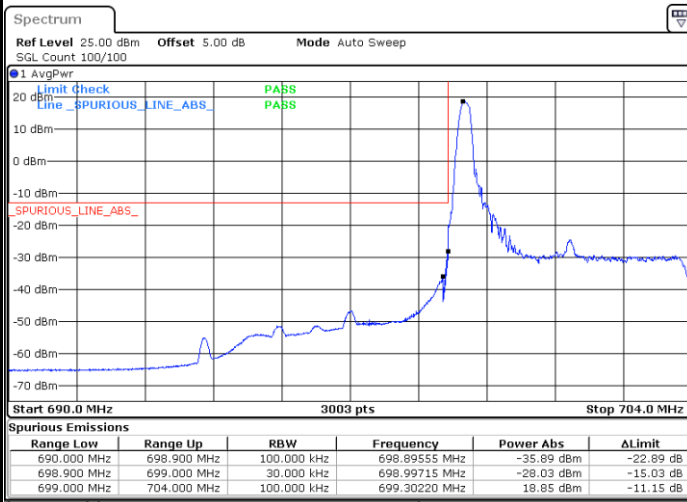


Date: 18 JUL 2022 14:54:48



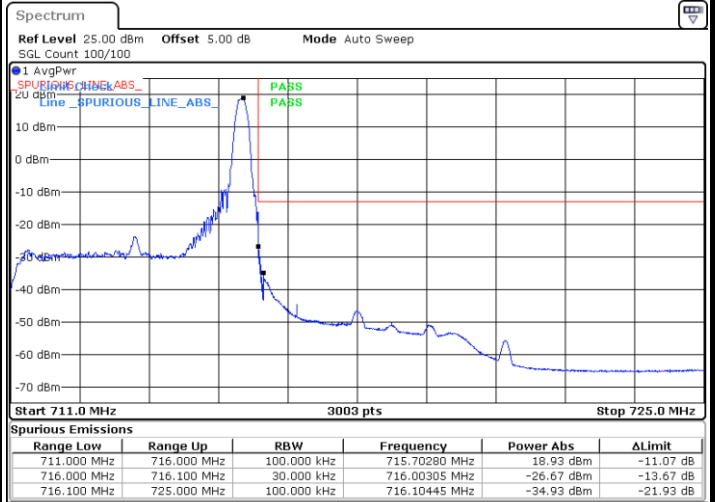
LTE Band 12 / 5MHz / 64QAM

Lowest Band Edge / 1RB



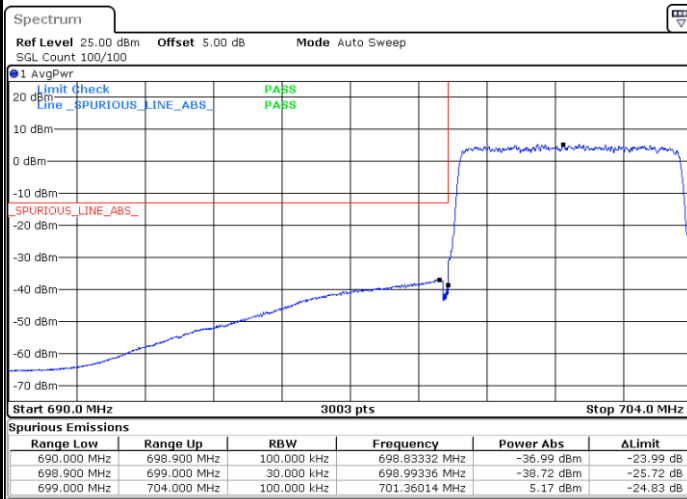
Date: 18 JUL 2022 14:34:50

Highest Band Edge / 1 RB



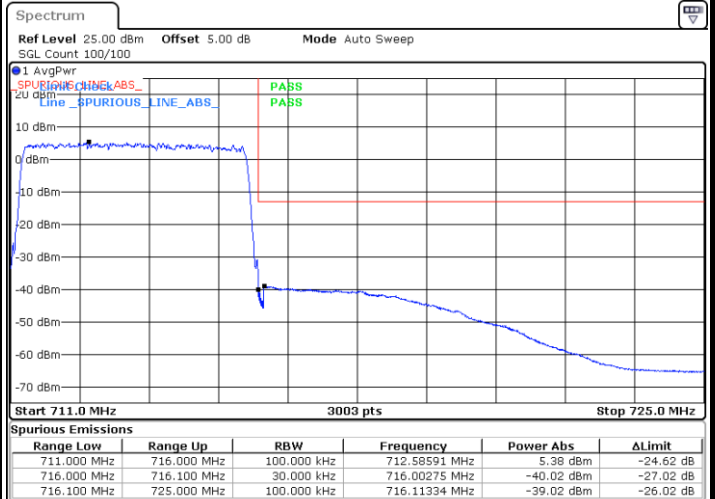
Date: 18 JUL 2022 14:50:49

Lowest Band Edge / Full RB



Date: 18 JUL 2022 14:36:50

Highest Band Edge / Full RB

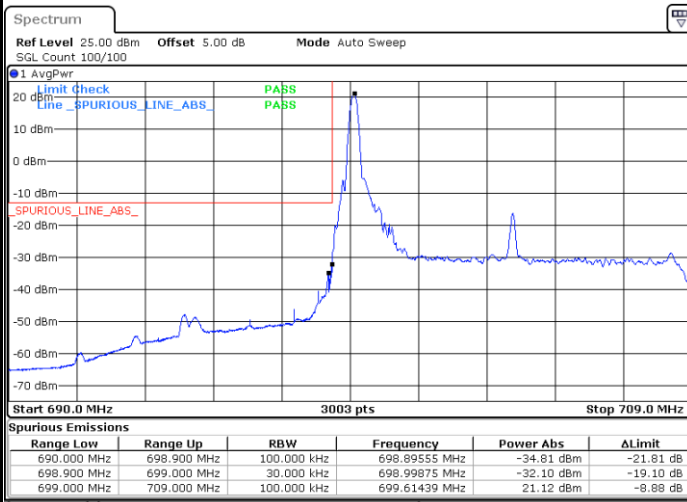


Date: 18 JUL 2022 14:52:49



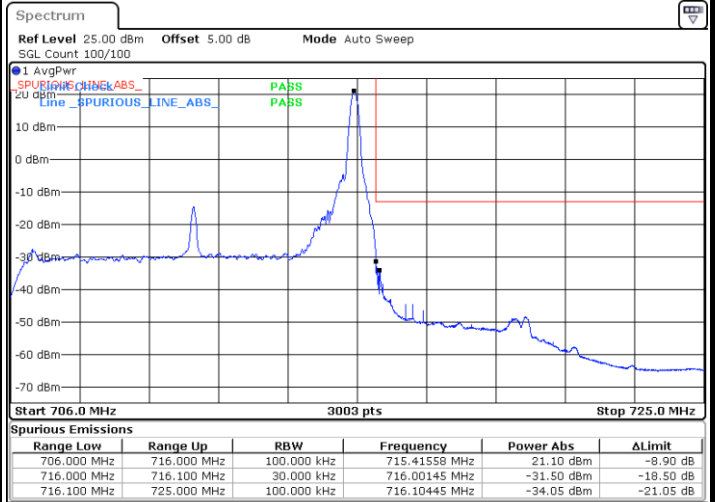
LTE Band 12 / 10MHz / QPSK

Lowest Band Edge / 1 RB



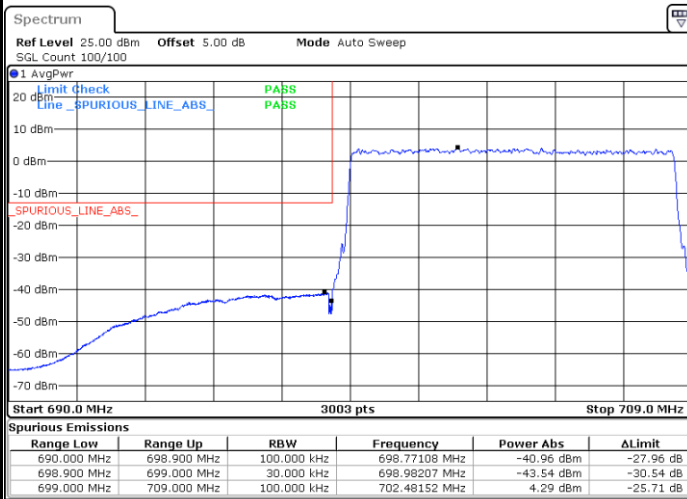
Date: 18 JUL 2022 15:00:49

Highest Band Edge / 1 RB



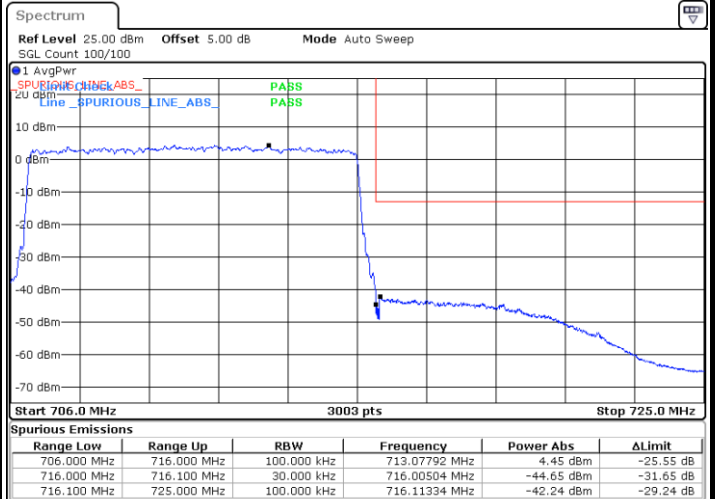
Date: 18 JUL 2022 15:16:48

Lowest Band Edge / Full RB



Date: 18 JUL 2022 15:10:48

Highest Band Edge / Full RB



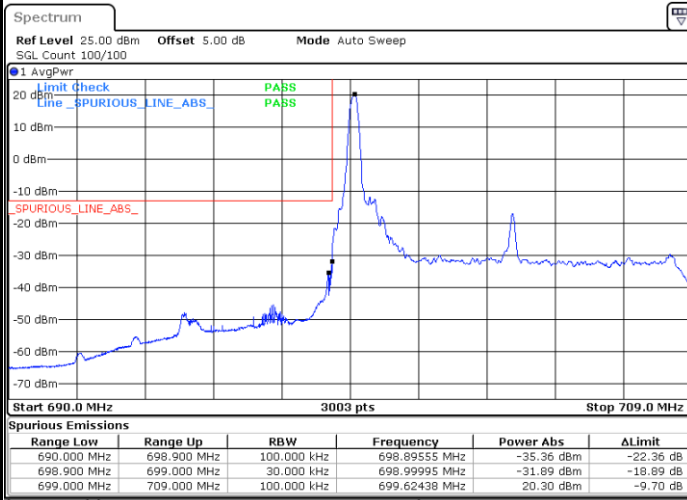
Date: 18 JUL 2022 15:26:47





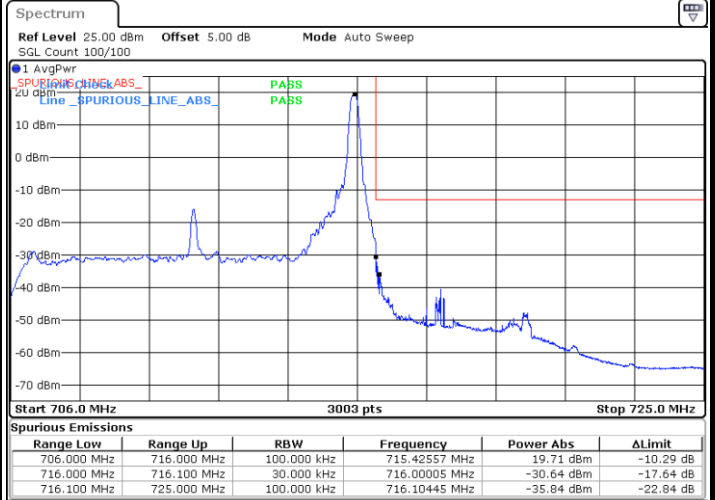
LTE Band 12 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



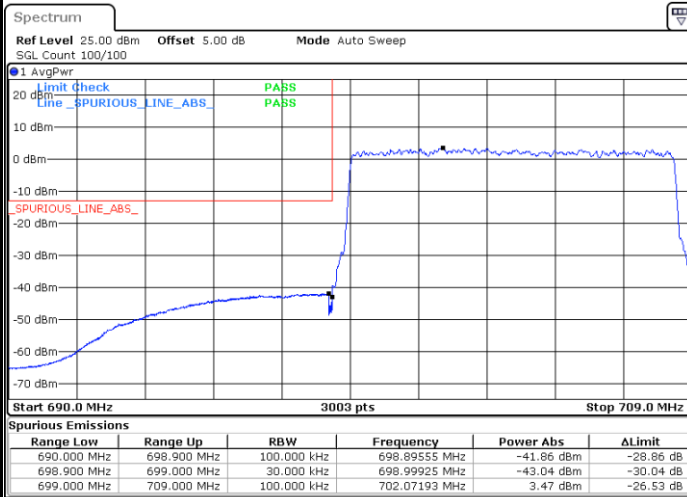
Date: 18 JUL 2022 15:02:49

Highest Band Edge / 1 RB



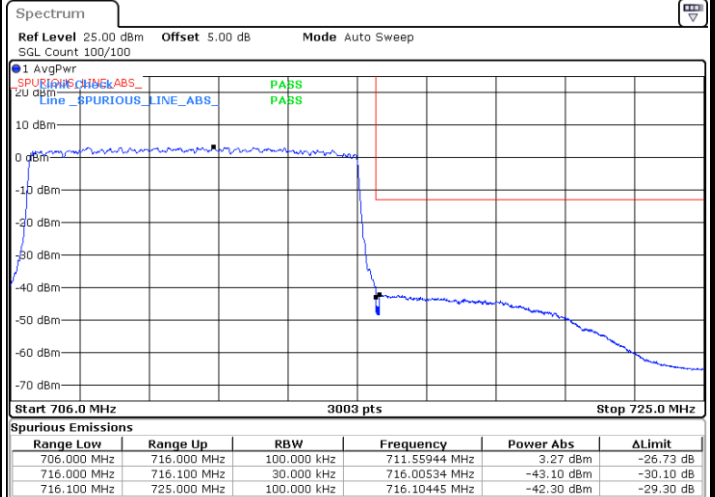
Date: 18 JUL 2022 15:18:48

Lowest Band Edge / Full RB



Date: 18 JUL 2022 15:08:48

Highest Band Edge / Full RB

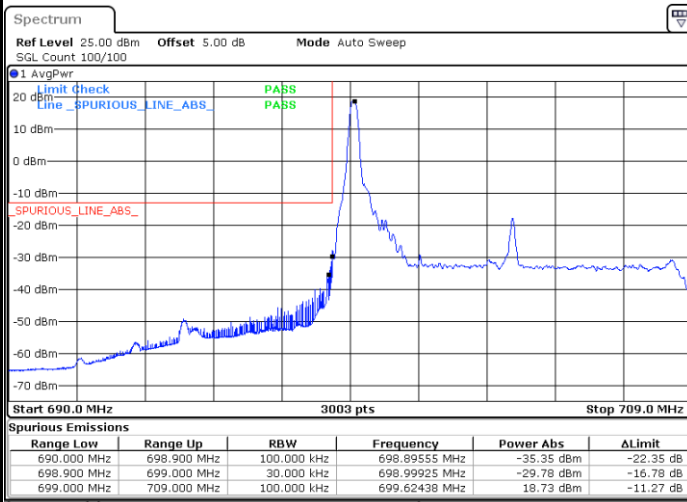


Date: 18 JUL 2022 15:24:47



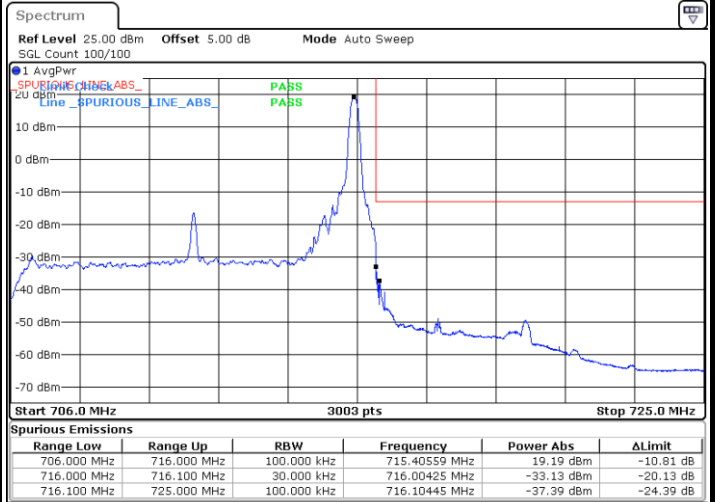
LTE Band 12 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



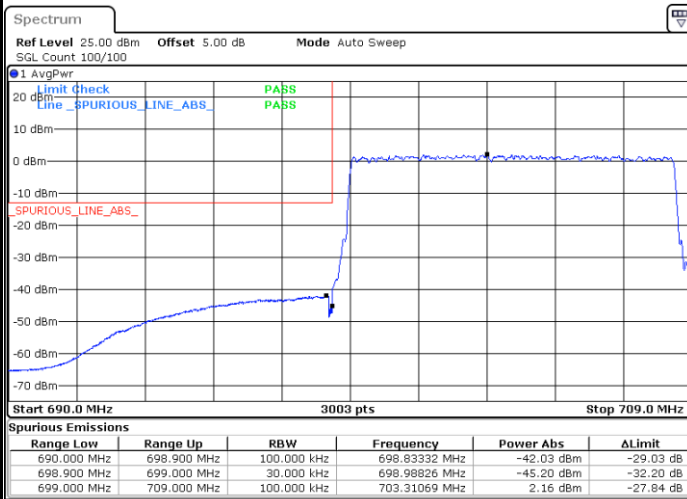
Date: 18 JUL 2022 15:04:48

Highest Band Edge / 1 RB



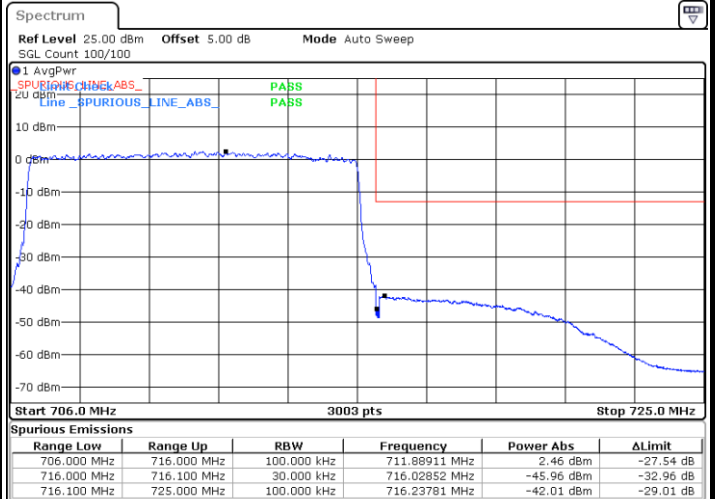
Date: 18 JUL 2022 15:20:47

Lowest Band Edge / Full RB



Date: 18 JUL 2022 15:06:48

Highest Band Edge / Full RB



Date: 18 JUL 2022 15:22:47

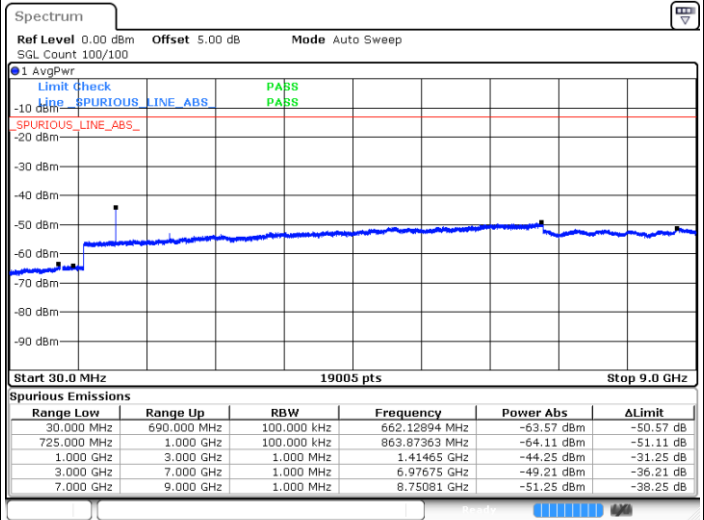
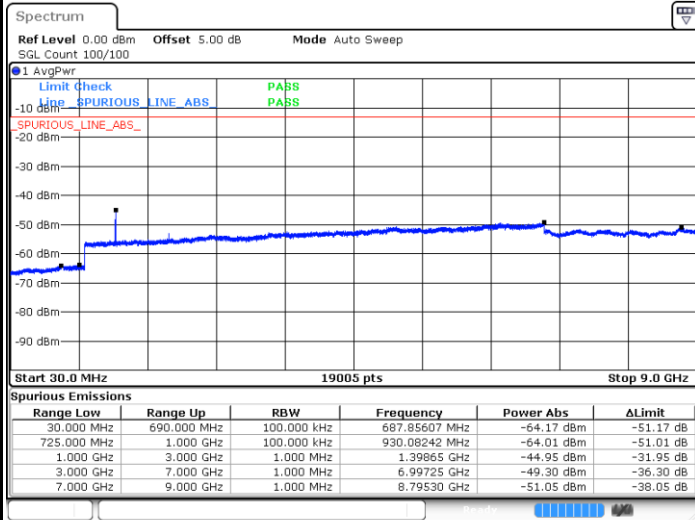


# Conducted Spurious Emission

## LTE Band 12 / 1.4MHz

### Lowest Channel / QPSK

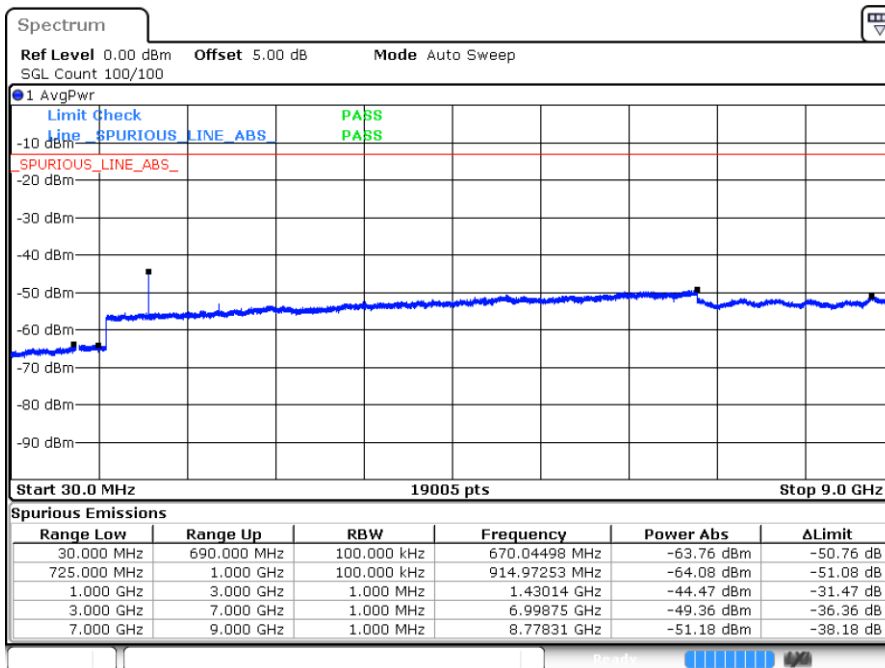
### Middle Channel / QPSK



Date: 18 JUL 2022 13:28:53

Date: 18 JUL 2022 13:42:52

### Highest Channel / QPSK



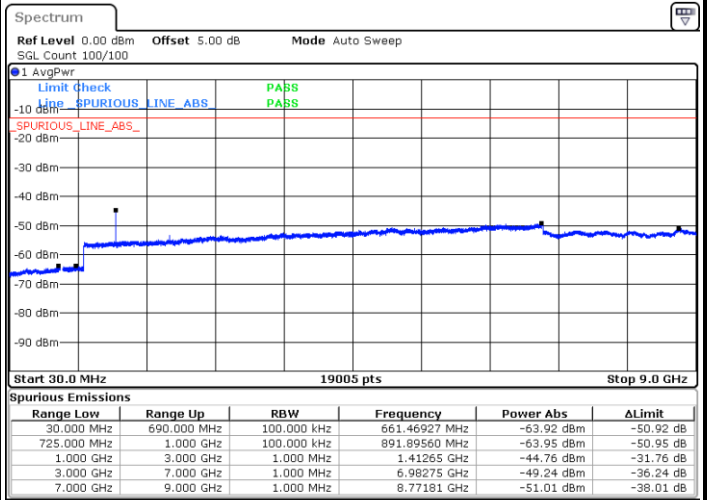
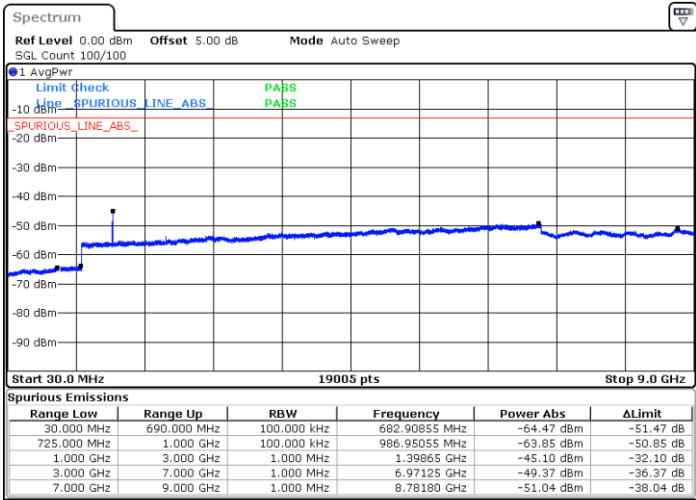
Date: 18 JUL 2022 13:44:52



LTE Band 12 / 3MHz

Lowest Channel / QPSK

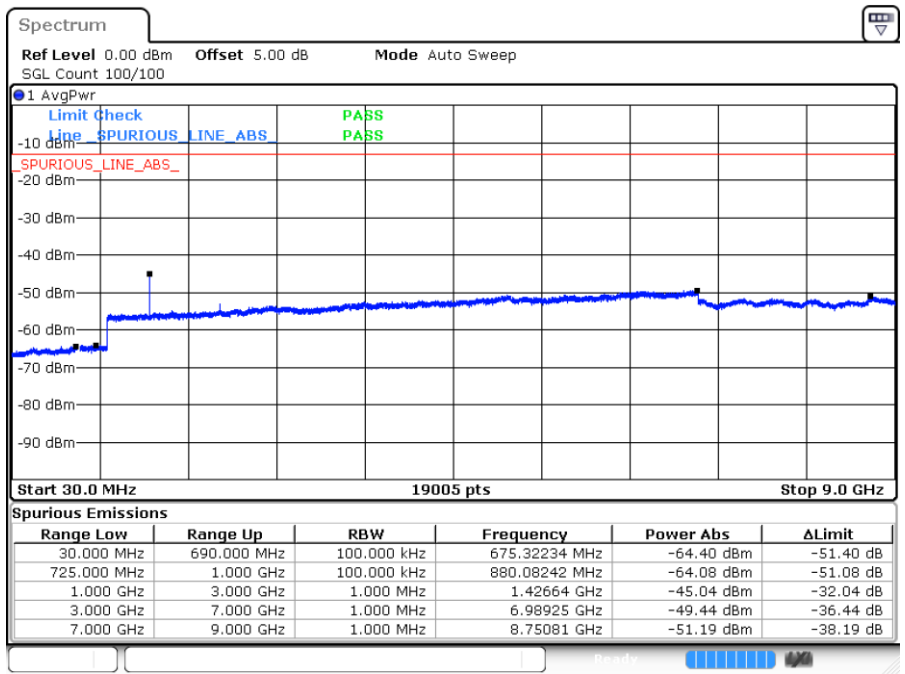
Middle Channel / QPSK



Date: 18 JUL 2022 13:58:52

Date: 18 JUL 2022 14:12:51

Highest Channel / QPSK



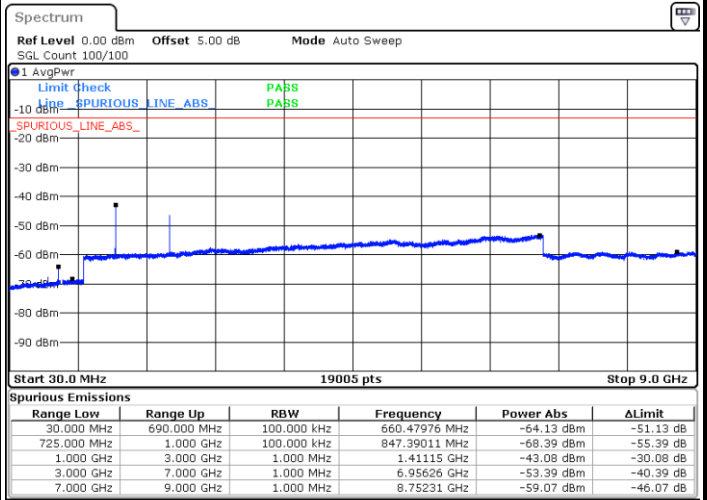
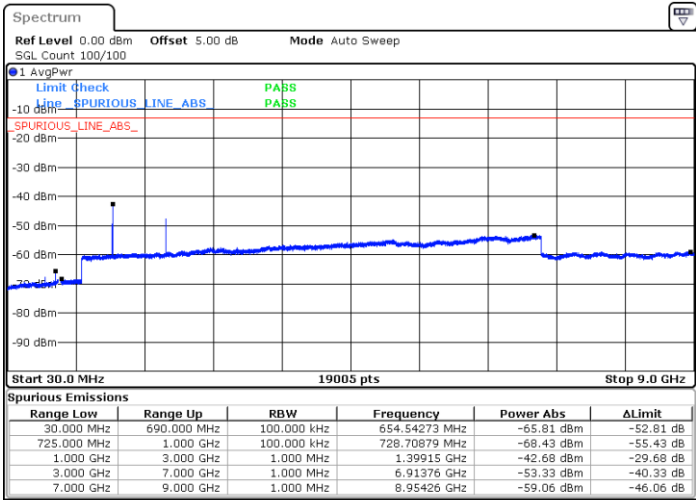
Date: 18 JUL 2022 14:14:51



LTE Band 12 / 5MHz

Lowest Channel / QPSK

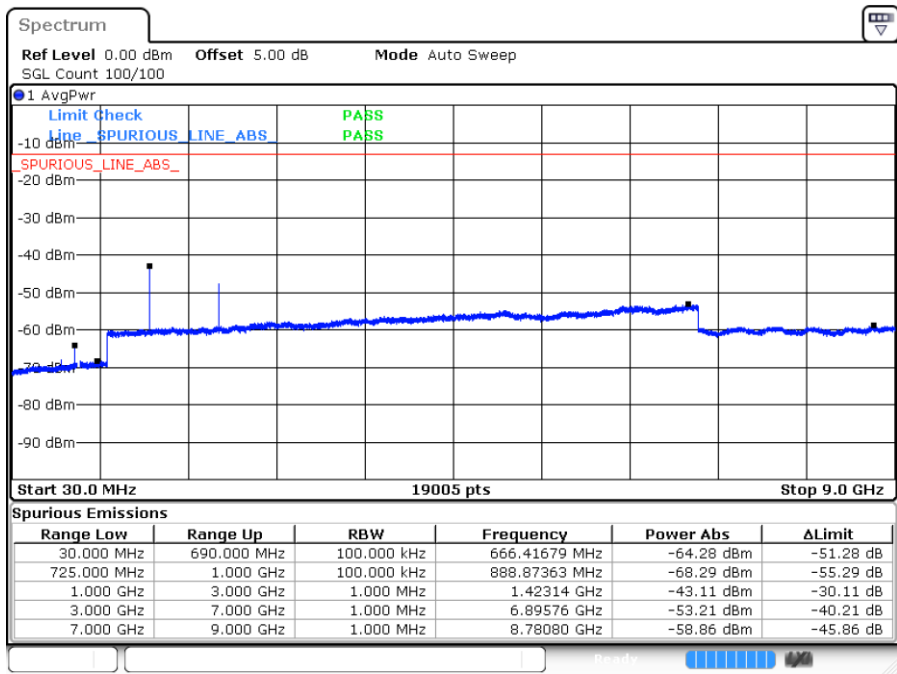
Middle Channel / QPSK



Date: 18 JUL 2022 14:28:51

Date: 18 JUL 2022 14:42:49

Highest Channel / QPSK



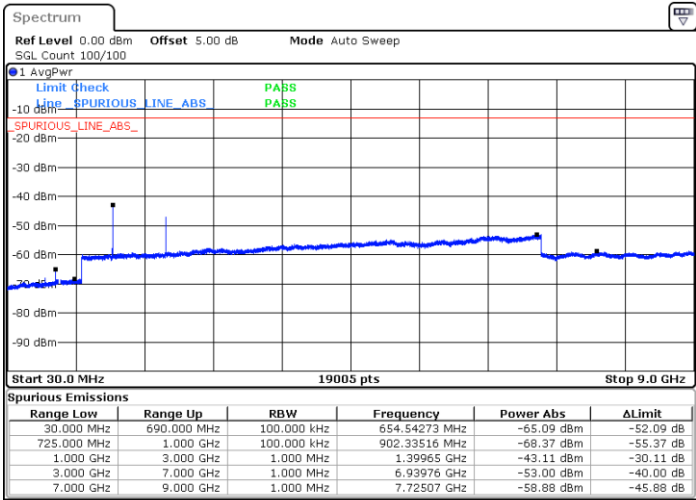
Date: 18 JUL 2022 14:44:49



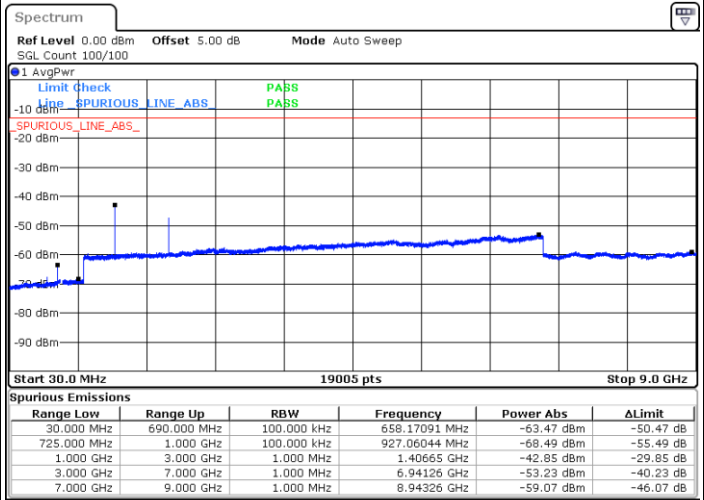
LTE Band 12 / 10MHz

Lowest Channel / QPSK

Middle Channel / QPSK

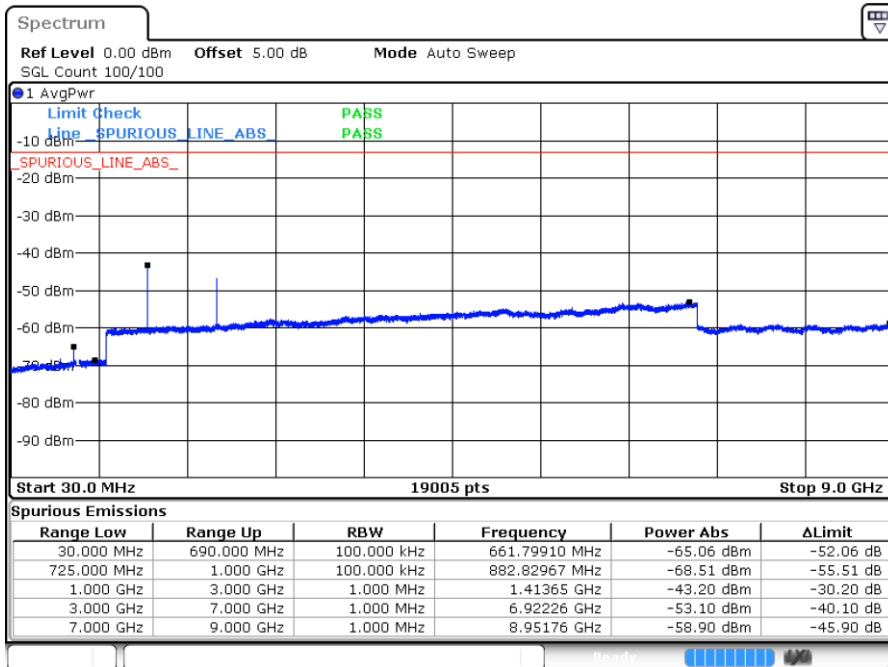


Date: 18 JUL 2022 14:58:49



Date: 18 JUL 2022 15:12:48

Highest Channel / QPSK



Date: 18 JUL 2022 15:14:48



### 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	0.0025	PASS
40	Normal Voltage	0.0016	
30	Normal Voltage	0.0009	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0011	
0	Normal Voltage	0.0019	
-10	Normal Voltage	0.0024	
-20	Normal Voltage	0.0026	
-30	Normal Voltage	0.0031	
20	Maximum Voltage	0.0021	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0016	

**Note:**

1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.45 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

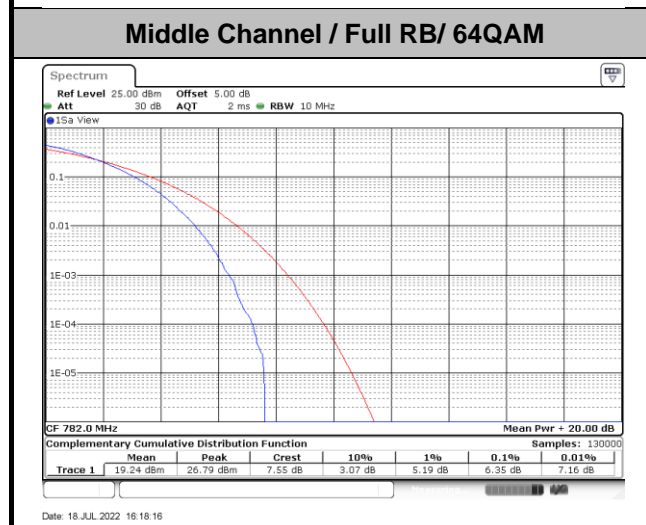
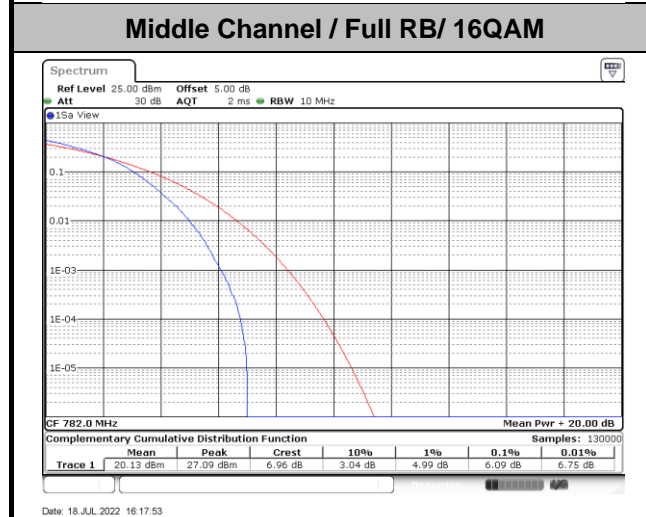
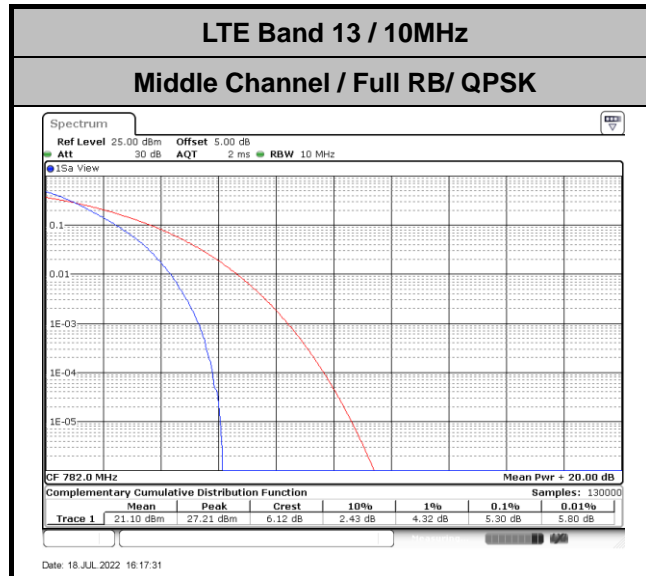


## LTE Band 13

### 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	5.30	6.09	6.35	<b>PASS</b>

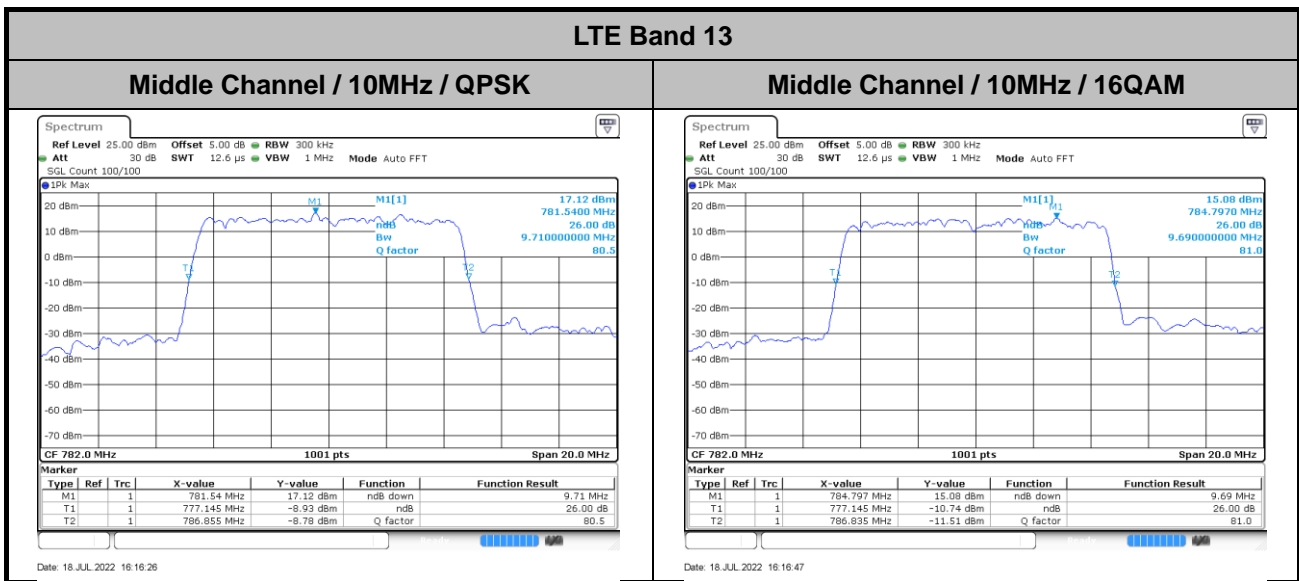






**26dB Bandwidth**

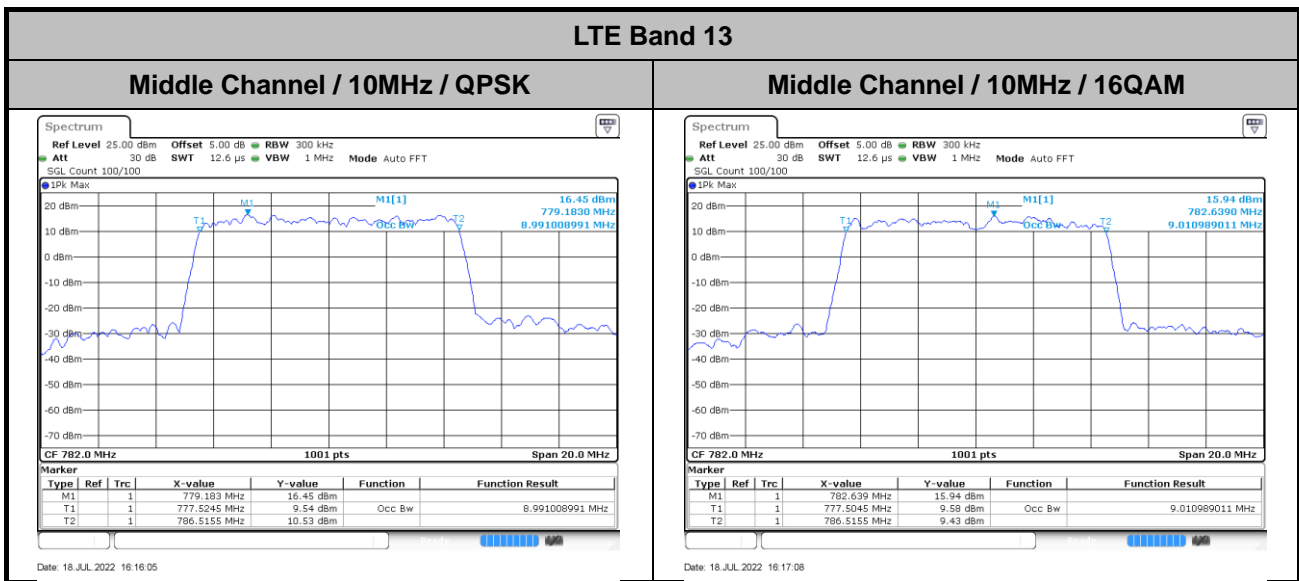
Mode	LTE Band 13 : 26dB BW(MHz)	
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.71	9.69





# Occupied Bandwidth

Mode	LTE Band 13 : 99%OBW(MHz)	
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	8.99	9.01

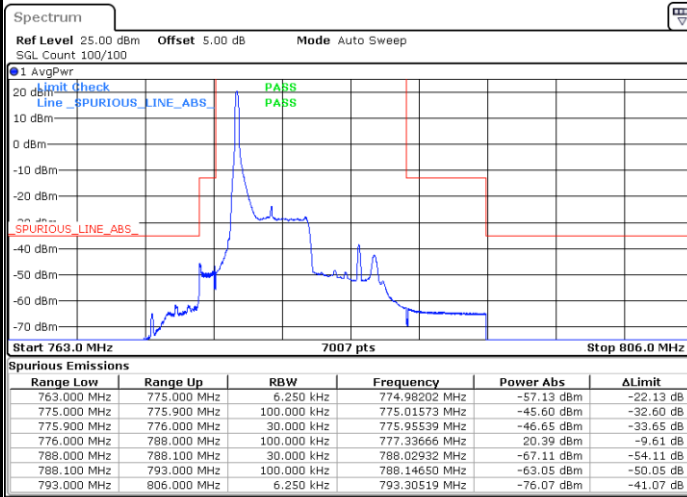




# Conducted Band Edge

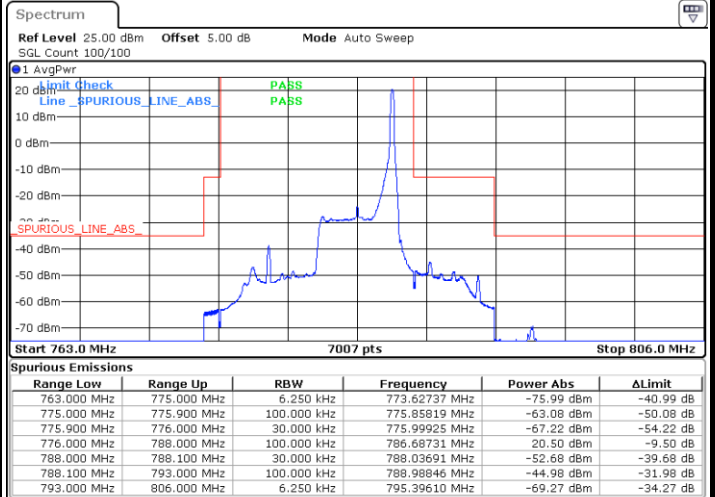
## LTE Band 13 / 5MHz / QPSK

### Lowest Band Edge / 1 RB



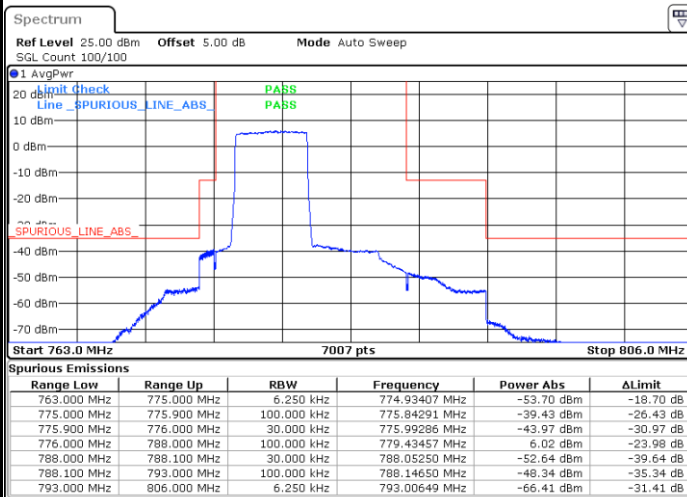
Date: 18 JUL 2022 15:31:11

### Highest Band Edge / 1 RB



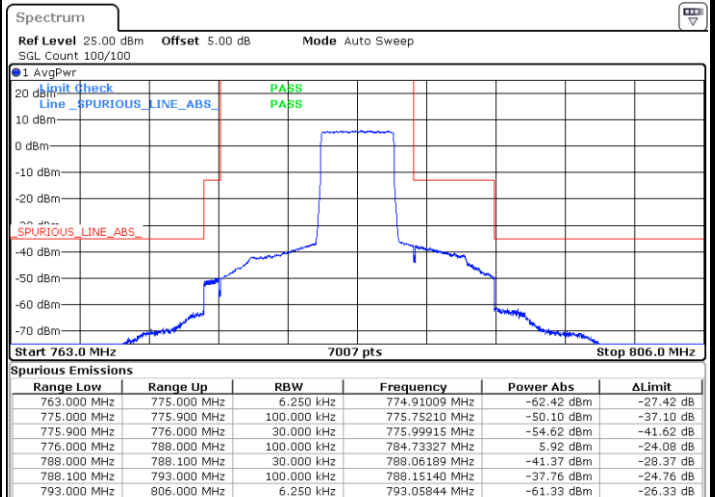
Date: 18 JUL 2022 15:48:10

### Lowest Band Edge / Full RB



Date: 18 JUL 2022 15:40:20

### Highest Band Edge / Full RB



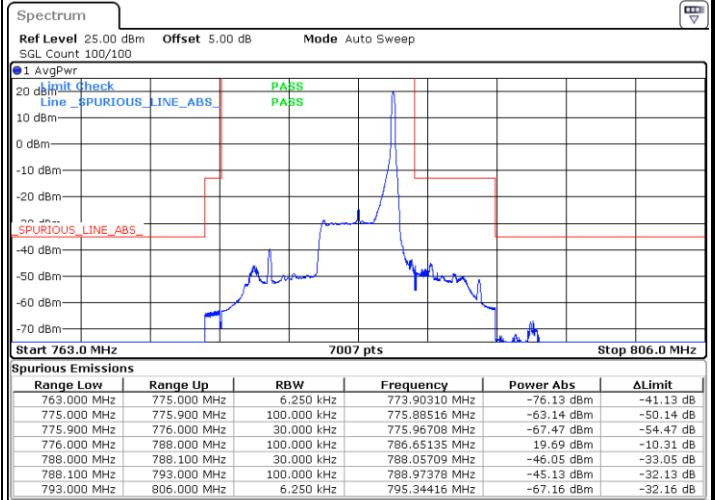
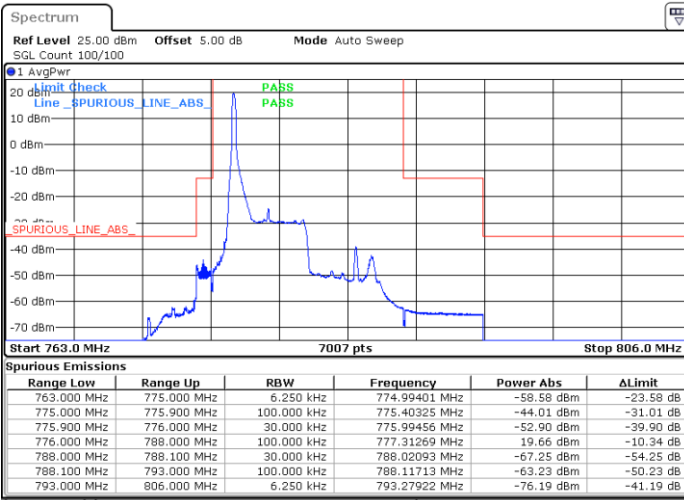
Date: 18 JUL 2022 15:57:20



LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1RB

Highest Band Edge / 1 RB

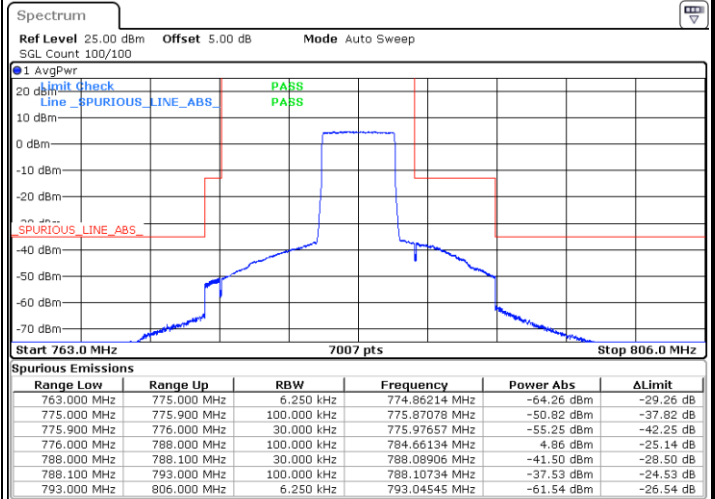
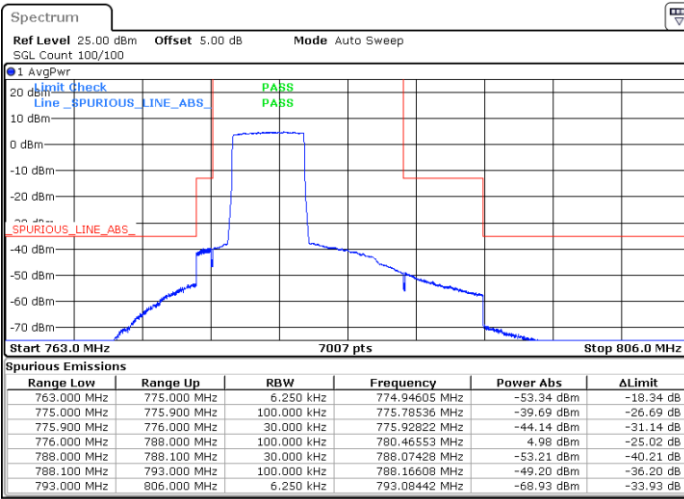


Date: 18 JUL 2022 15:33:00

Date: 18 JUL 2022 15:50:00

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 18 JUL 2022 15:38:30

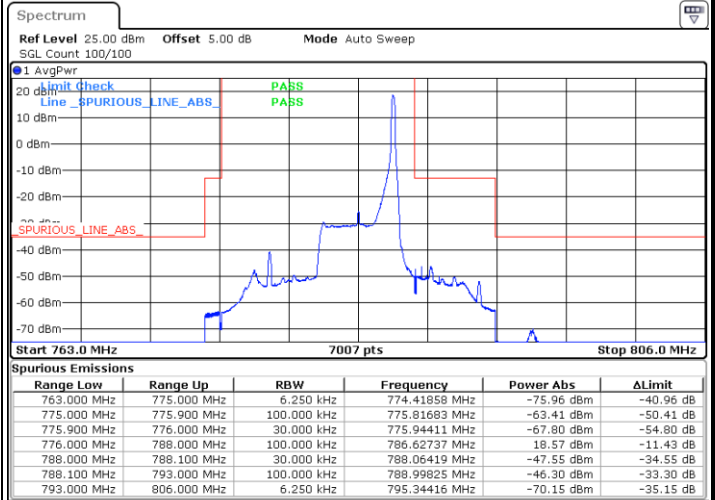
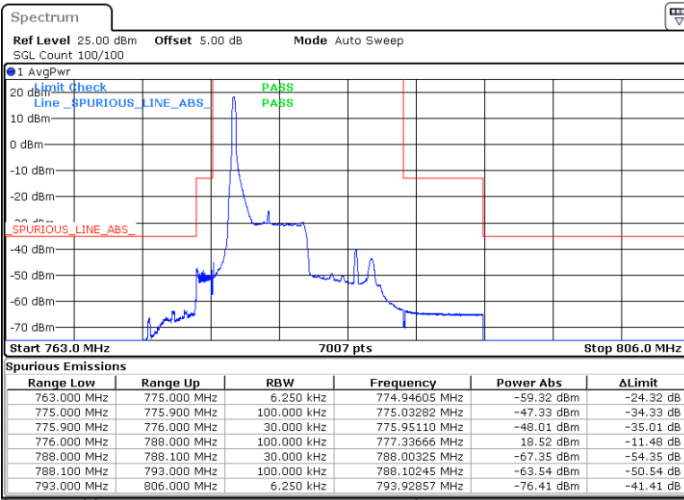
Date: 18 JUL 2022 15:55:30



LTE Band 13 / 5MHz / 64QAM

Lowest Band Edge / 1RB

Highest Band Edge / 1 RB

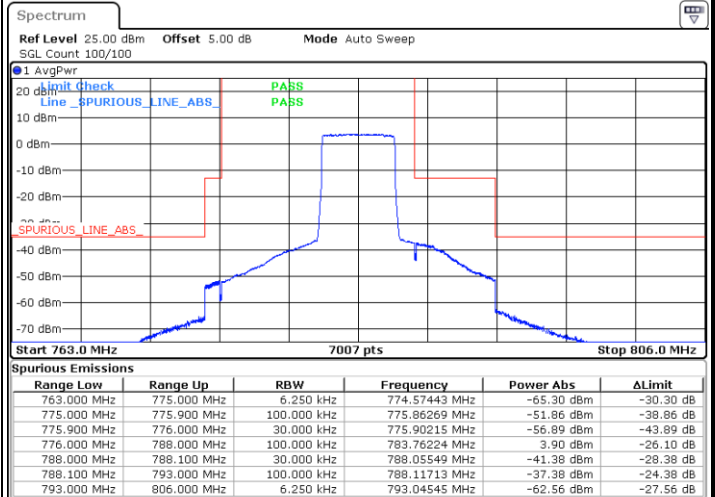
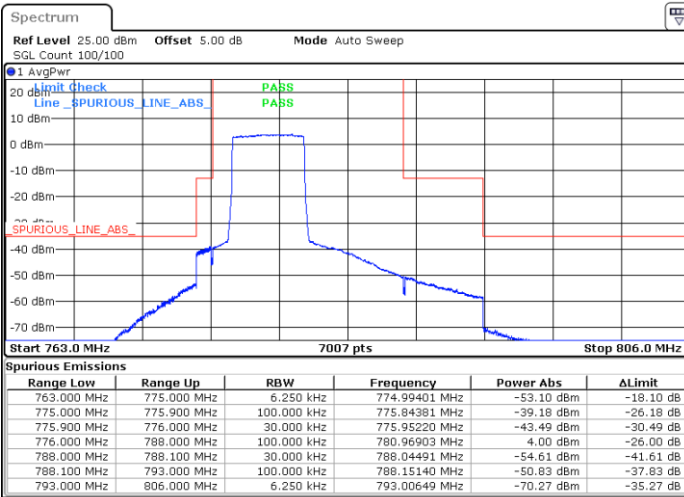


Date: 18 JUL 2022 15:34:50

Date: 18 JUL 2022 15:51:50

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



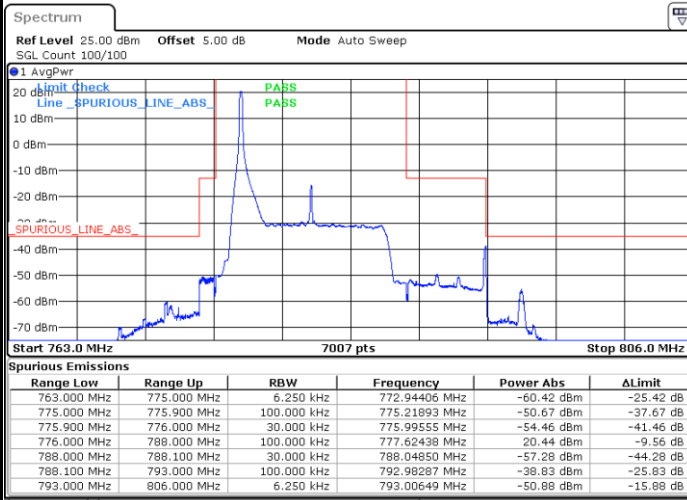
Date: 18 JUL 2022 15:36:40

Date: 18 JUL 2022 15:53:40



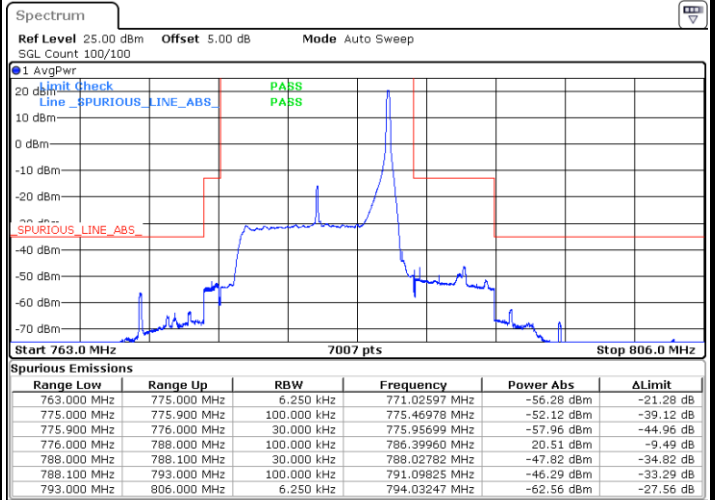
LTE Band 13 / 10MHz / QPSK

middle Band Edge / 1 RB



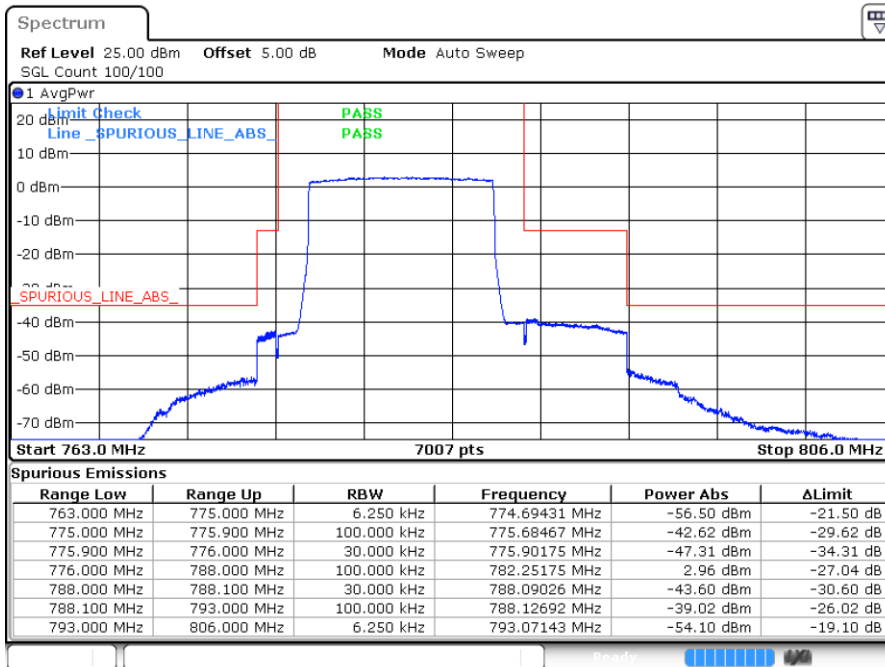
Date: 18 JUL 2022 16:08:16

middle Band Edge / 1 RB



Date: 18 JUL 2022 16:12:05

Middle Band Edge / Full RB

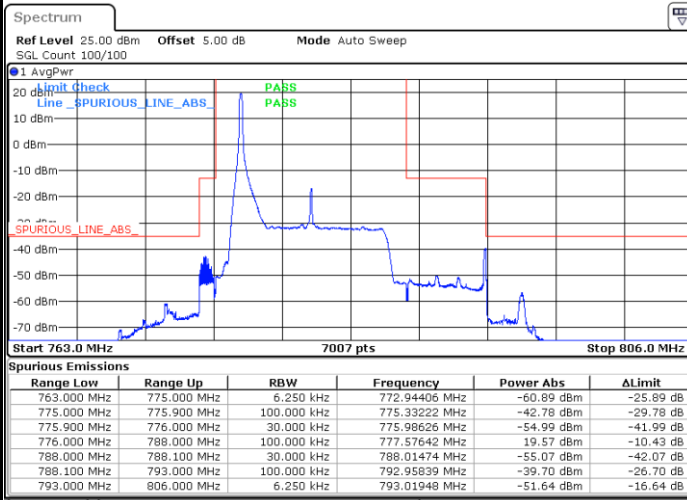


Date: 18 JUL 2022 15:58:10



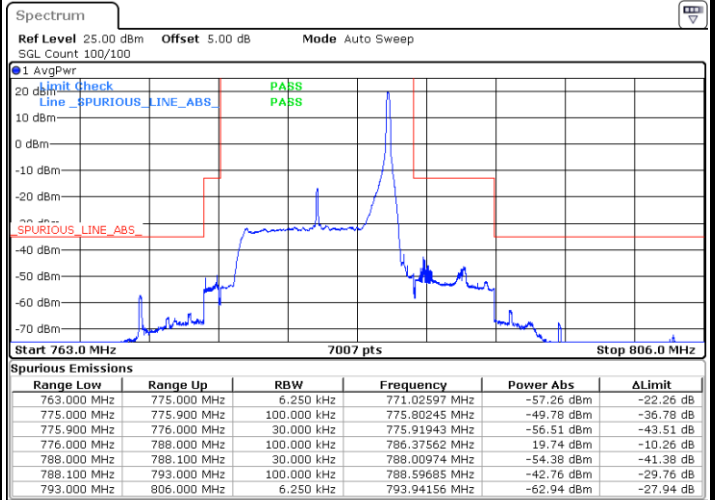
LTE Band 13 / 10MHz / 16QAM

middle Band Edge / 1 RB



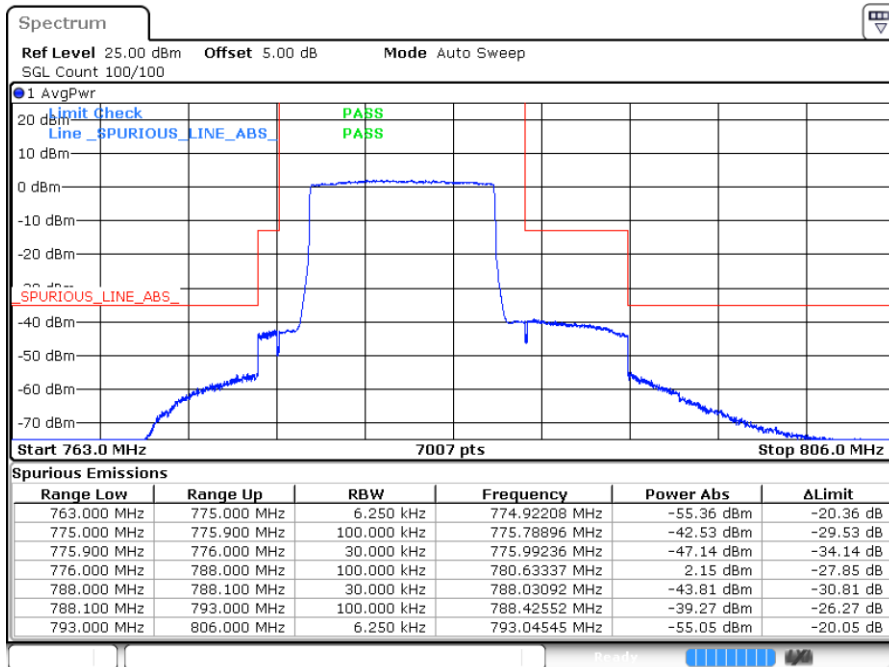
Date: 18 JUL 2022 16:06:27

middle Band Edge / 1 RB



Date: 18 JUL 2022 16:13:54

middle Band Edge / Full RB



Date: 18 JUL 2022 16:00:59