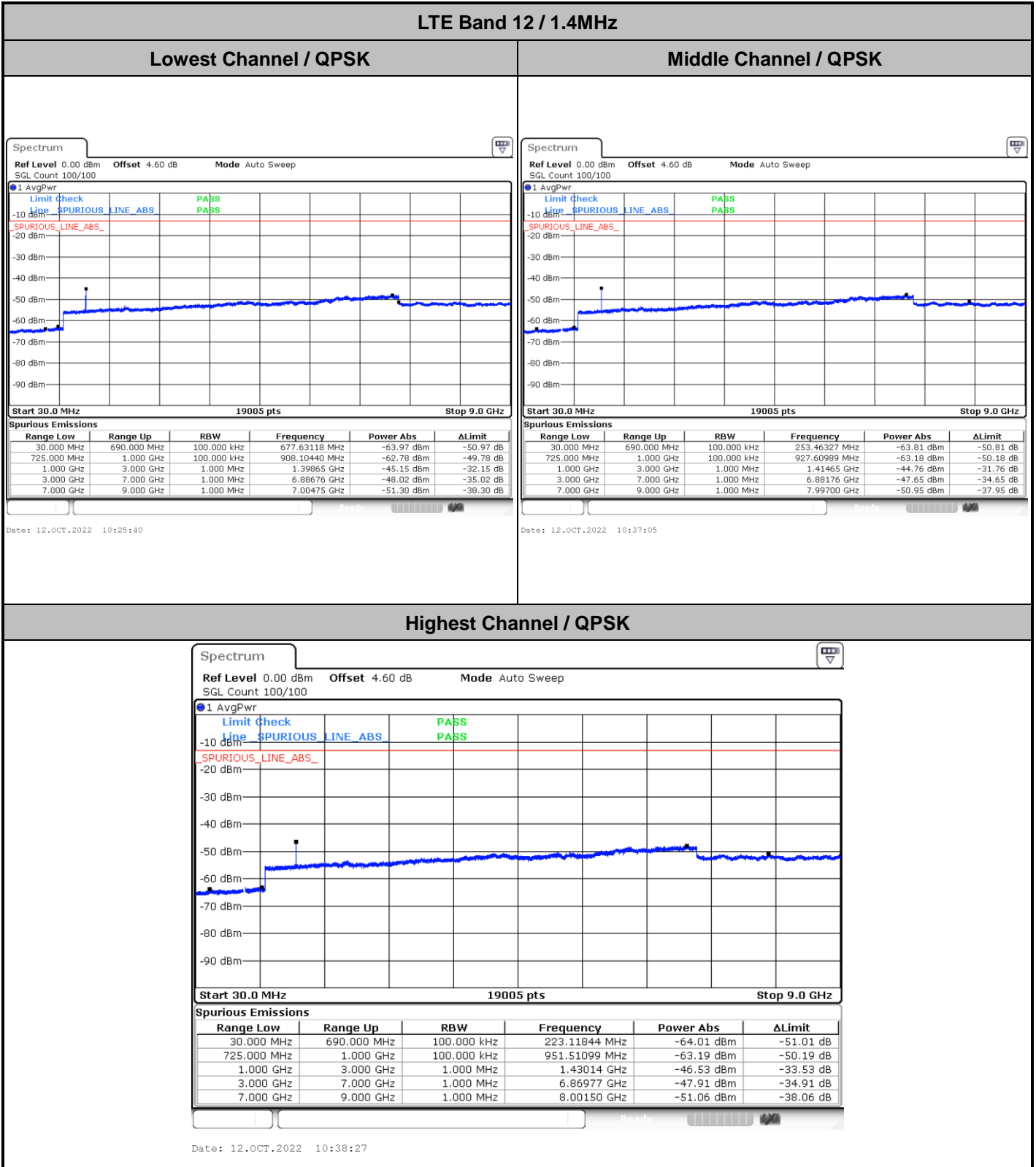




# Conducted Spurious Emission

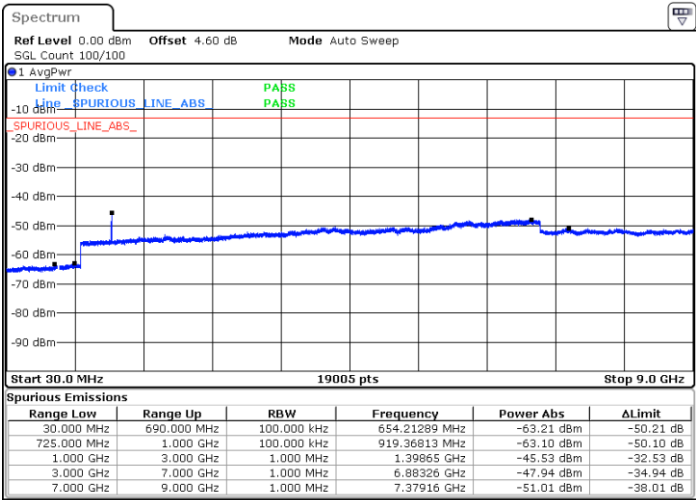




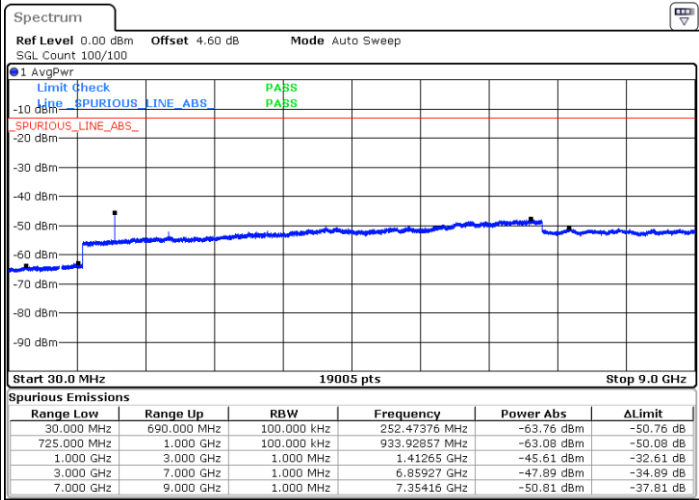
LTE Band 12 / 3MHz

Lowest Channel / QPSK

Middle Channel / QPSK

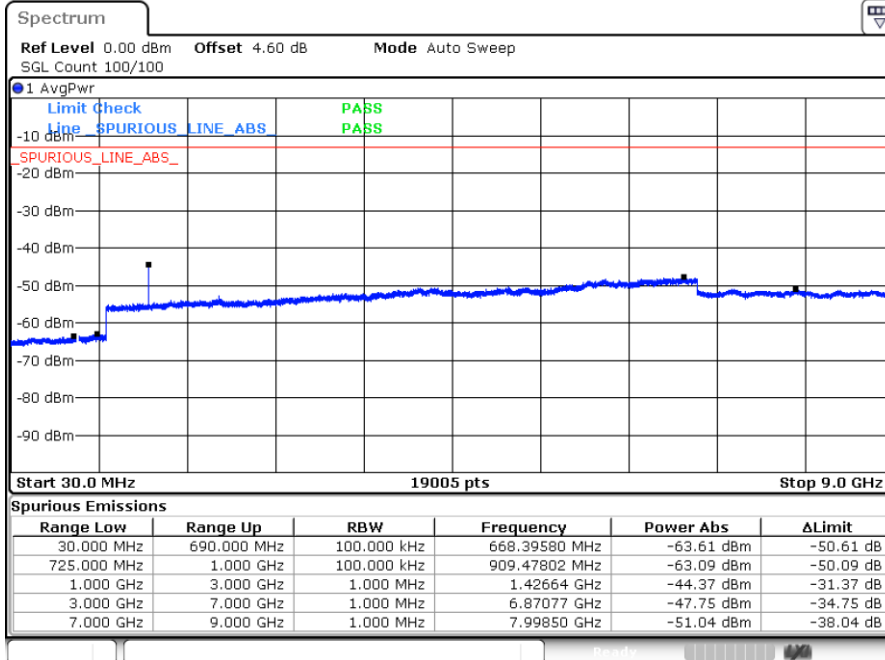


Date: 12.OCT.2022 10:49:51



Date: 12.OCT.2022 11:01:14

Highest Channel / QPSK



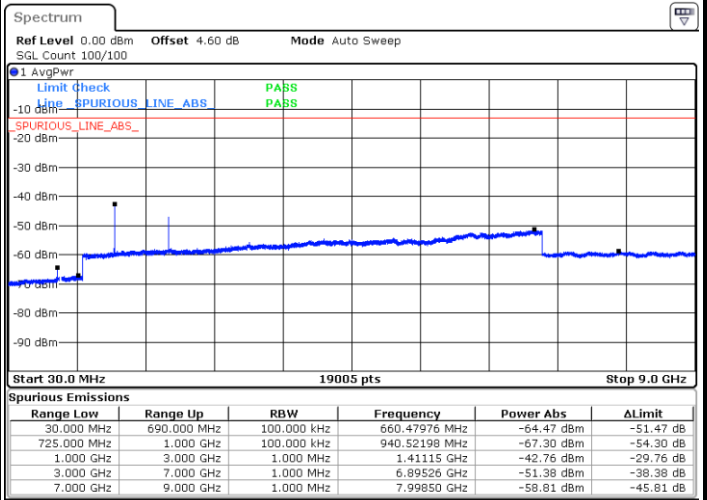
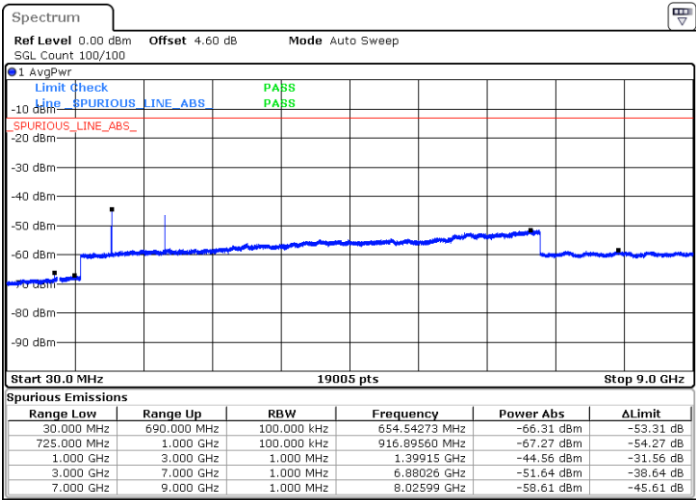
Date: 12.OCT.2022 11:02:36



LTE Band 12 / 5MHz

Lowest Channel / QPSK

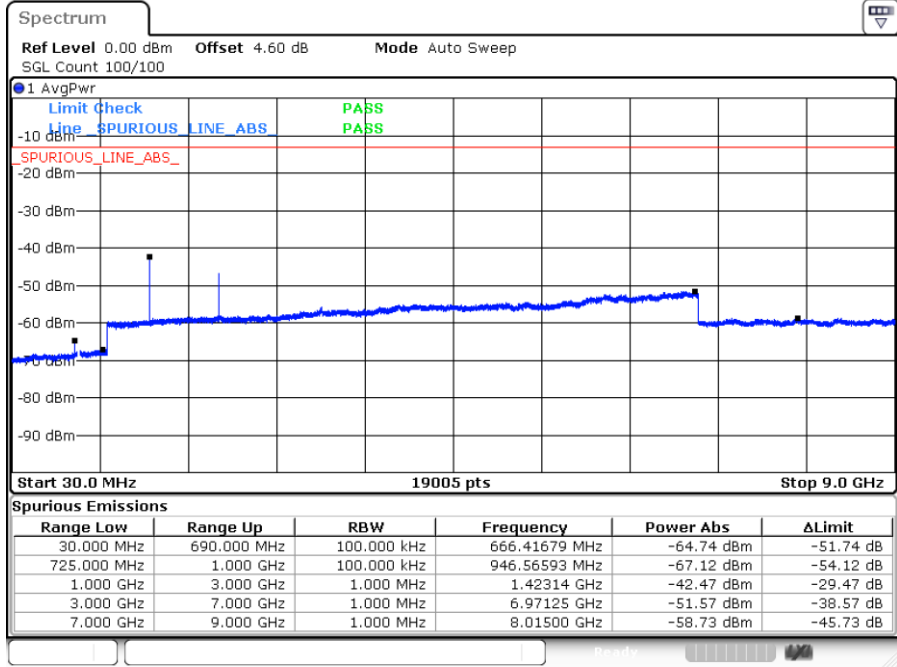
Middle Channel / QPSK



Date: 12.OCT.2022 11:14:01

Date: 12.OCT.2022 11:25:24

Highest Channel / QPSK



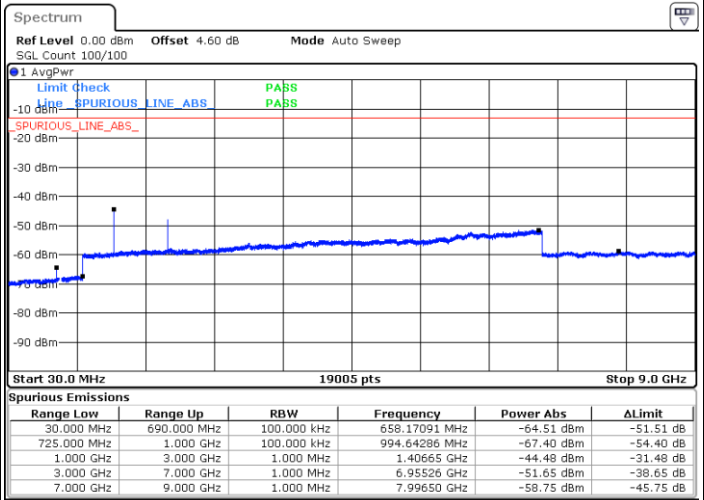
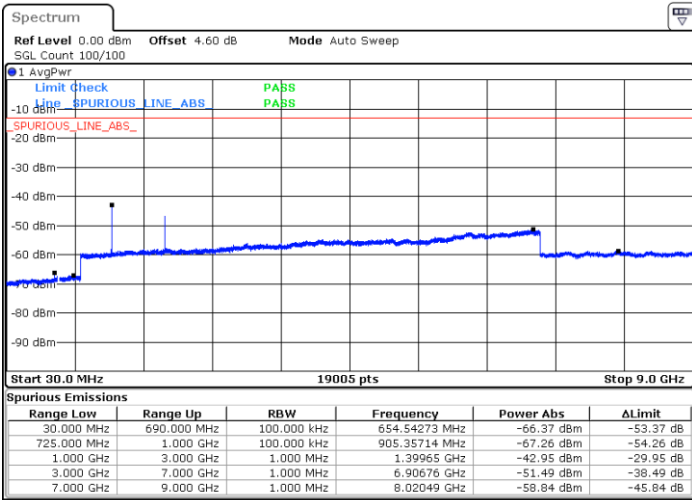
Date: 12.OCT.2022 11:26:46



LTE Band 12 / 10MHz

Lowest Channel / QPSK

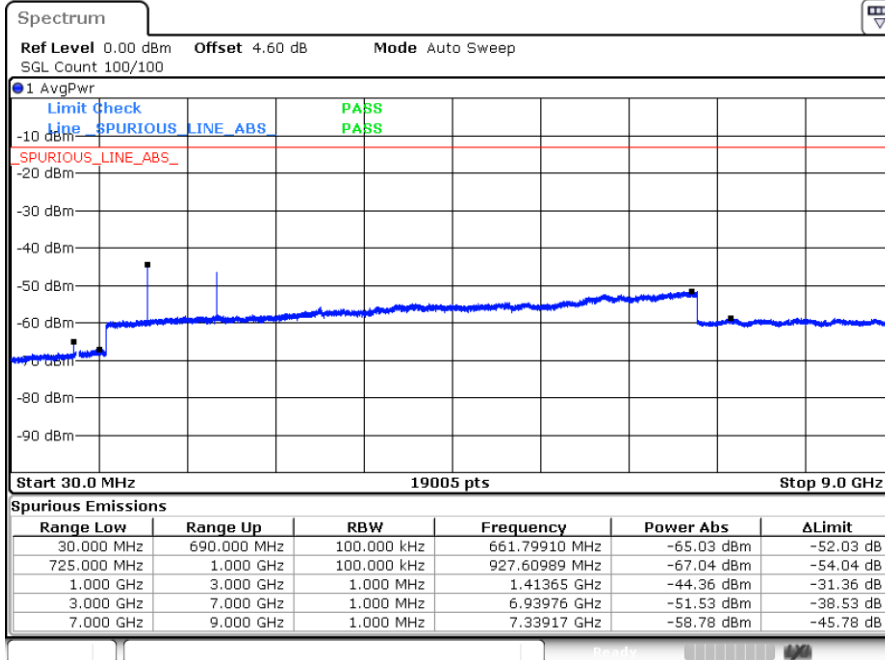
Middle Channel / QPSK



Date: 12.OCT.2022 11:38:10

Date: 12.OCT.2022 11:49:33

Highest Channel / QPSK



Date: 12.OCT.2022 11:50:55



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	0.0024	PASS
40	Normal Voltage	0.0015	
30	Normal Voltage	0.0008	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0013	
0	Normal Voltage	0.0016	
-10	Normal Voltage	0.0022	
-20	Normal Voltage	0.0019	
-30	Normal Voltage	0.0027	
20	Maximum Voltage	0.0019	
20	Normal Voltage	0.0011	
20	Battery End Point	0.0016	

Note:

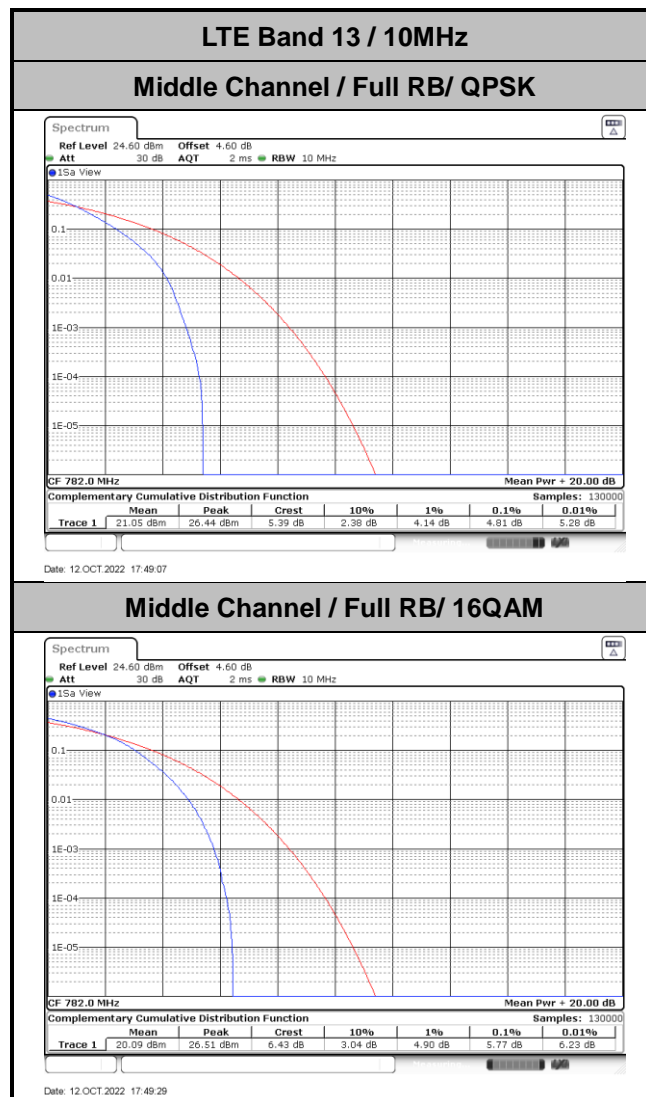
1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.45 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

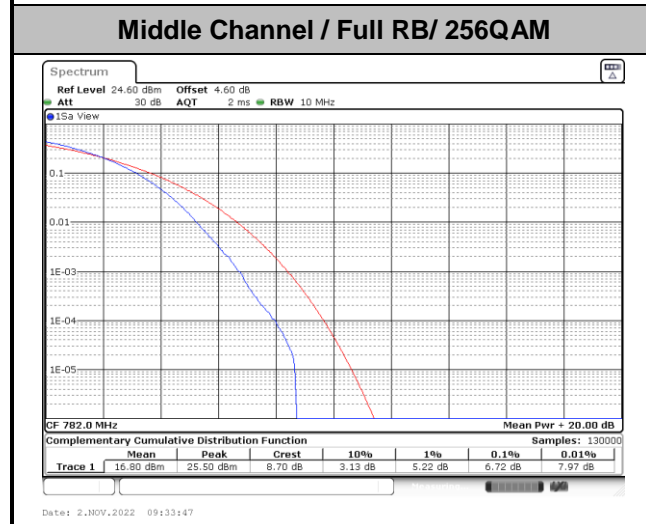
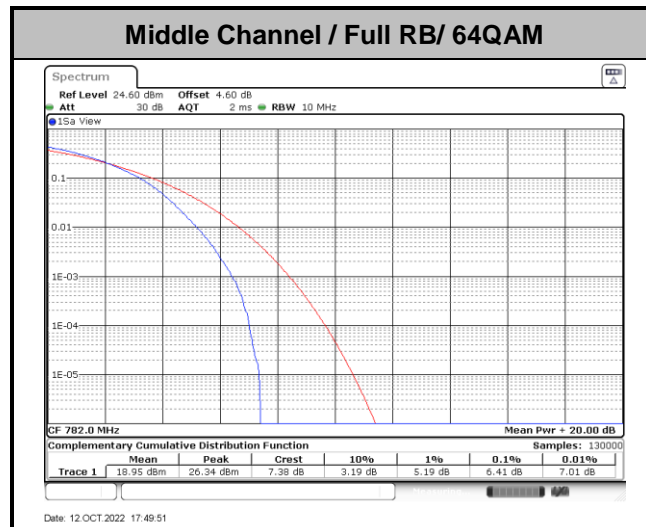


# LTE Band 13

## Peak-to-Average Ratio

Mode	LTE Band 13 / 10MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.81	5.77	6.41	6.72	PASS

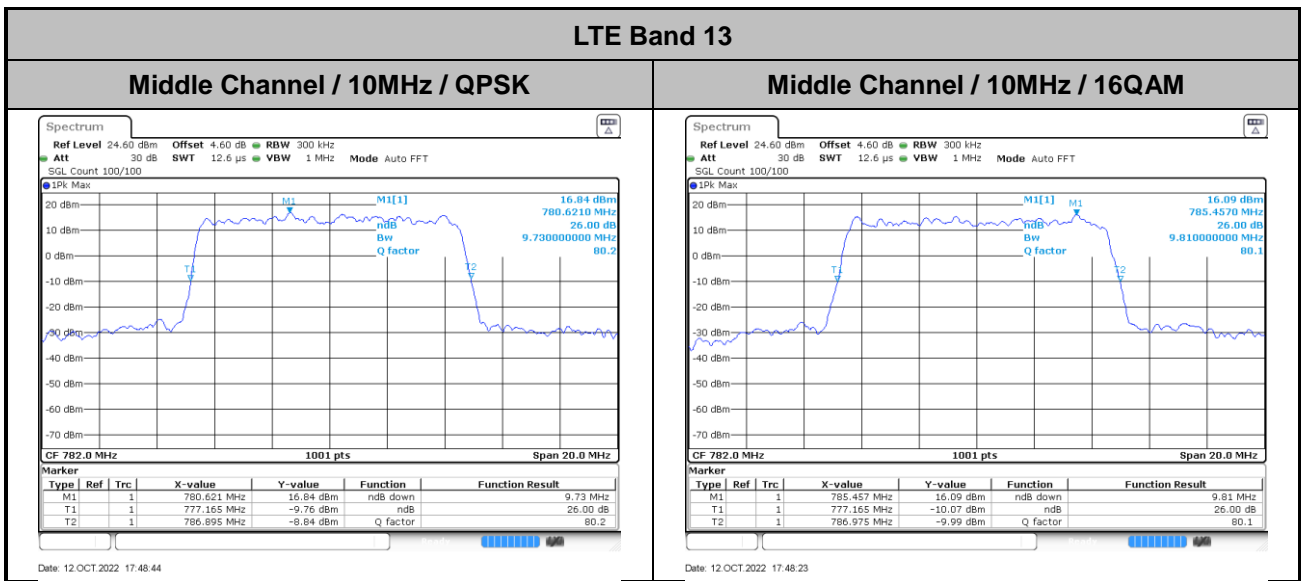






## 26dB Bandwidth

<b>Mode</b>	<b>LTE Band 13 : 26dB BW(MHz)</b>	
<b>BW</b>	<b>10MHz</b>	
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>
<b>Middle CH</b>	<b>9.73</b>	<b>9.81</b>

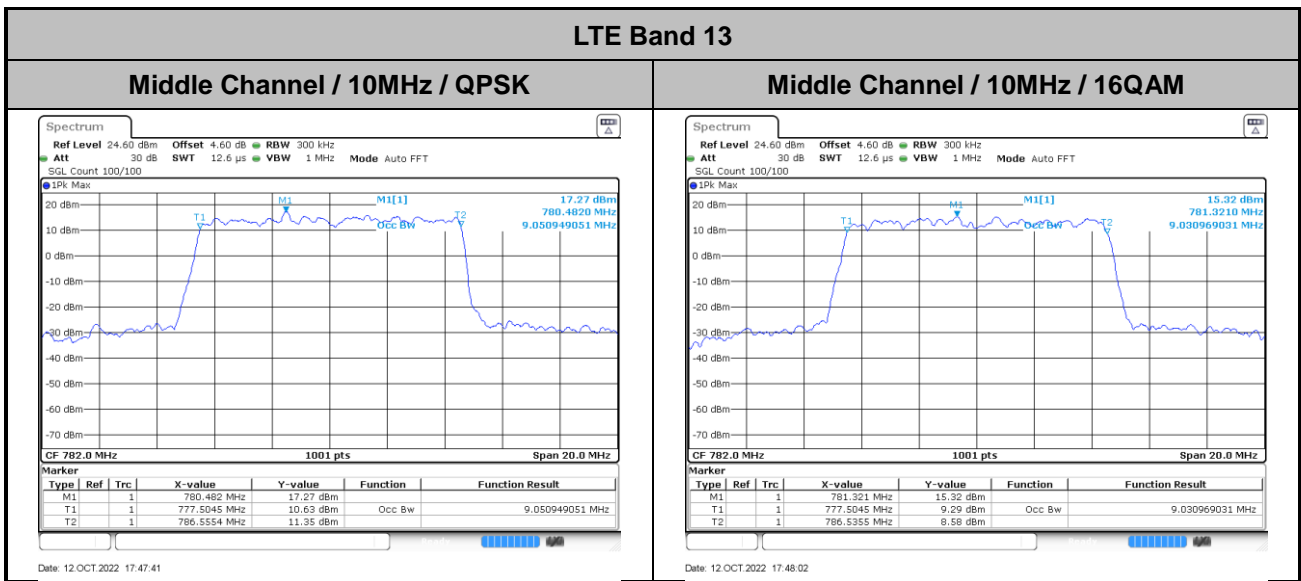






# Occupied Bandwidth

Mode	LTE Band 13 : 99%OBW(MHz)	
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.05	9.03

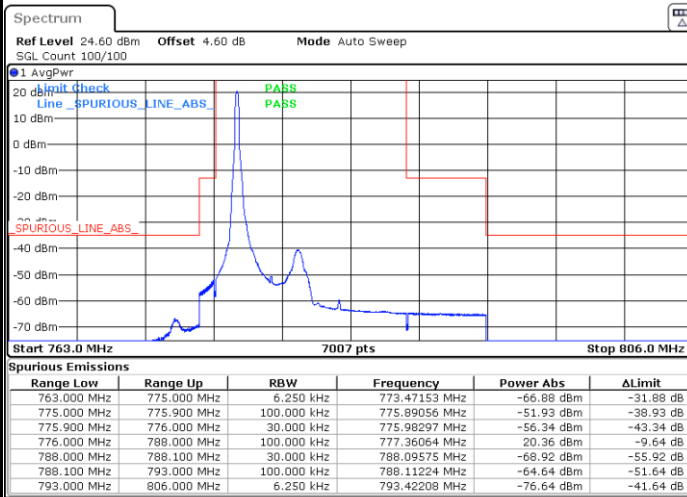




# Conducted Band Edge

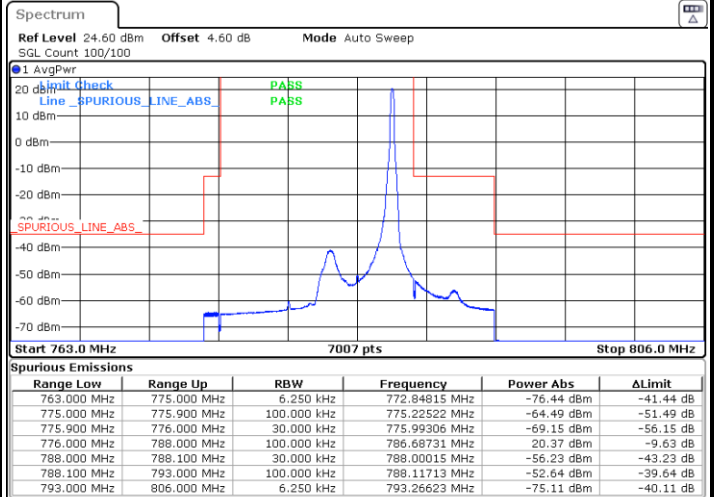
## LTE Band 13 / 5MHz / QPSK

### Lowest Band Edge / 1 RB



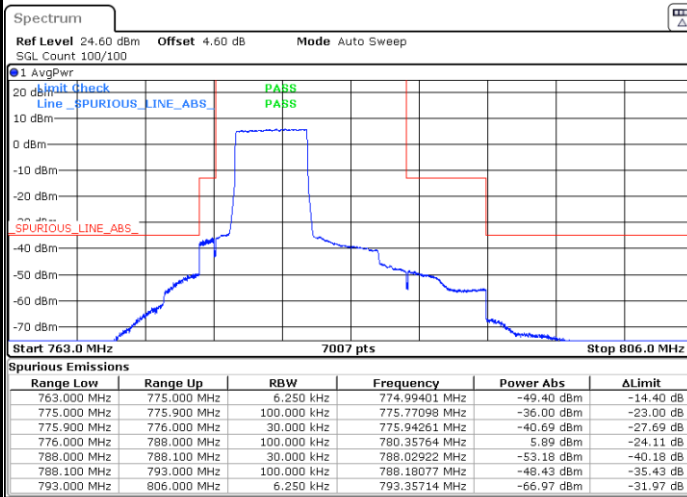
Date: 12.OCT.2022 17:06:48

### Highest Band Edge / 1 RB



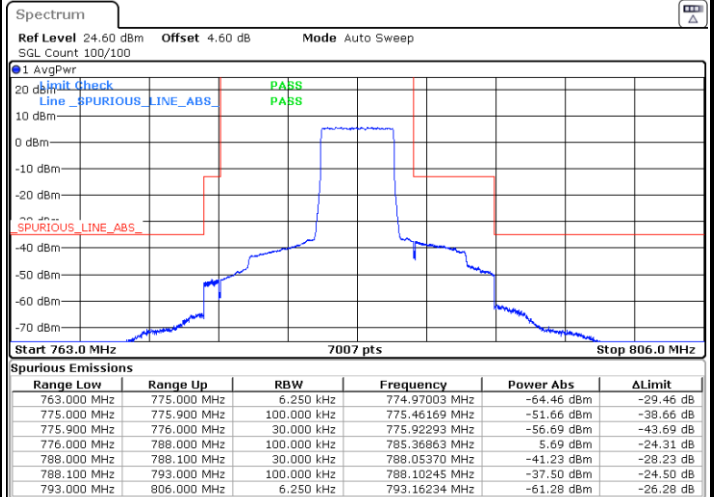
Date: 12.OCT.2022 17:20:27

### Lowest Band Edge / Full RB



Date: 12.OCT.2022 17:15:57

### Highest Band Edge / Full RB



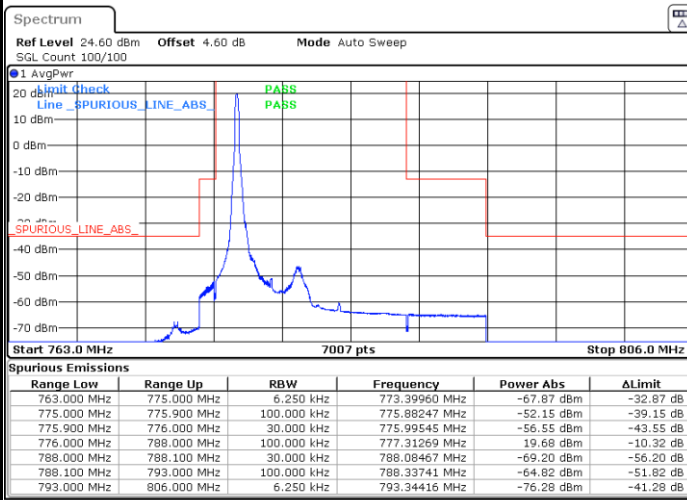
Date: 12.OCT.2022 17:29:36



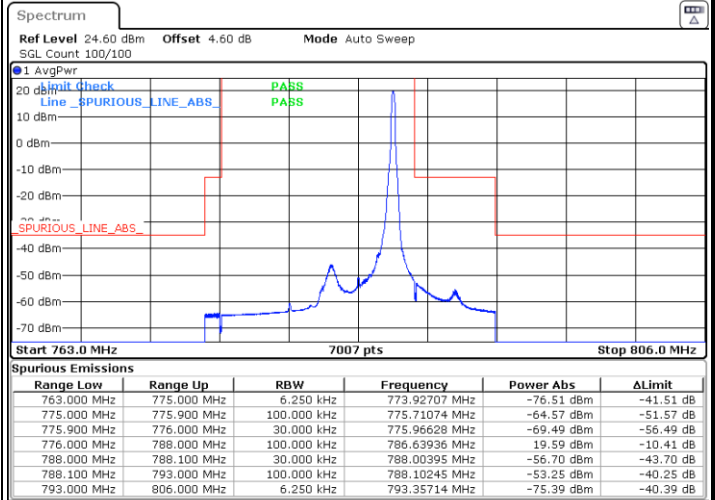
LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1RB

Highest Band Edge / 1 RB



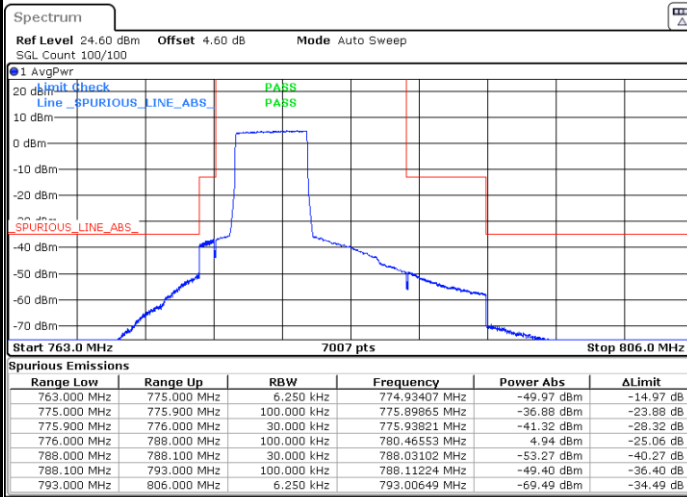
Date: 12.OCT.2022 17:08:38



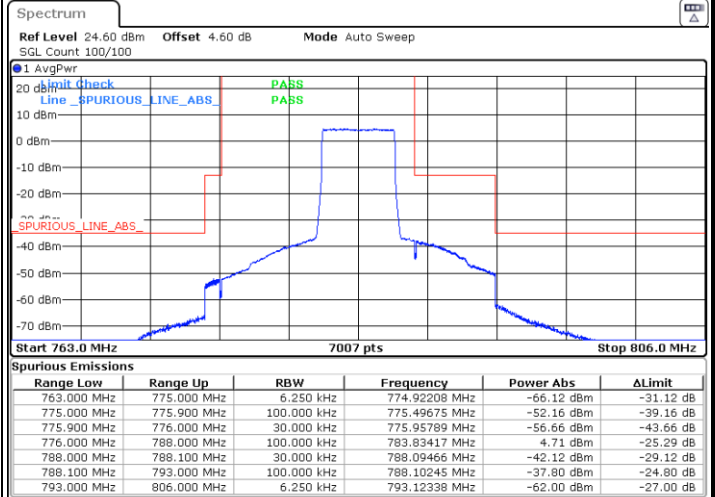
Date: 12.OCT.2022 17:22:16

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 12.OCT.2022 17:14:07

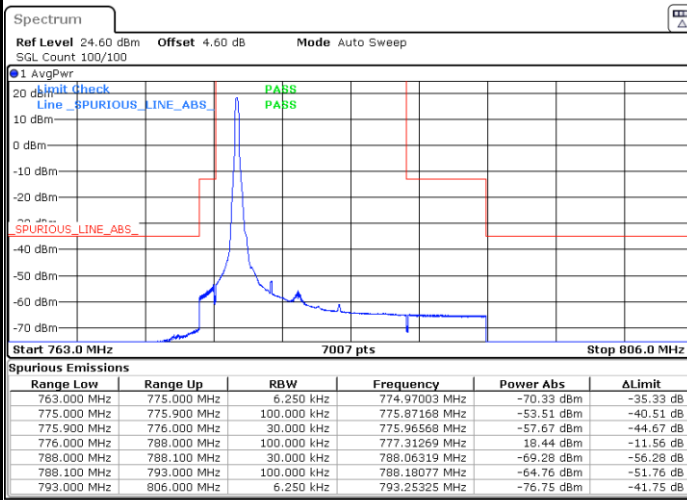


Date: 12.OCT.2022 17:27:46



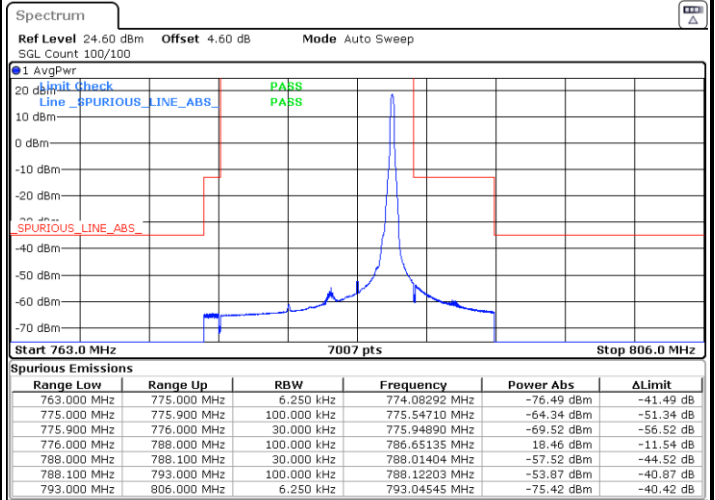
LTE Band 13 / 5MHz / 64QAM

Lowest Band Edge / 1RB



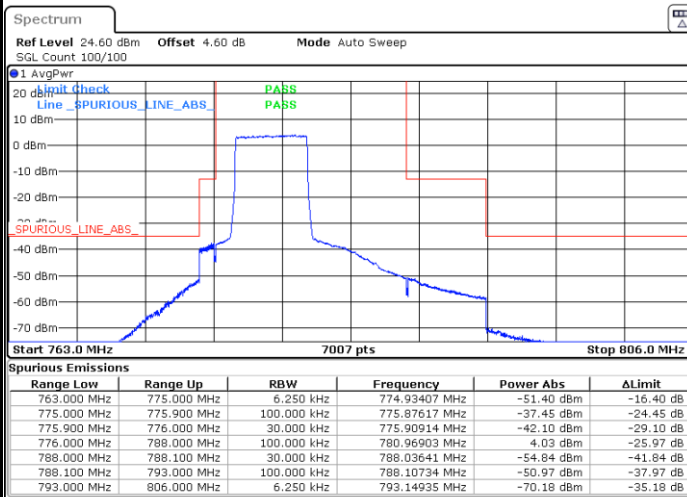
Date: 12.OCT.2022 17:10:27

Highest Band Edge / 1 RB



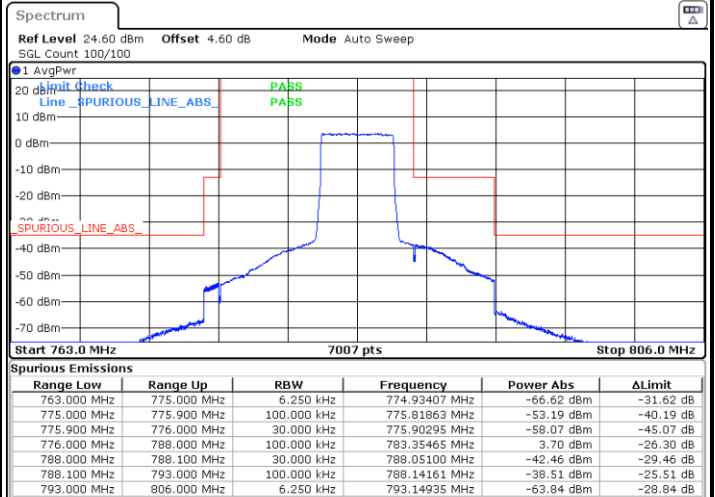
Date: 12.OCT.2022 17:24:06

Lowest Band Edge / Full RB



Date: 12.OCT.2022 17:12:18

Highest Band Edge / Full RB

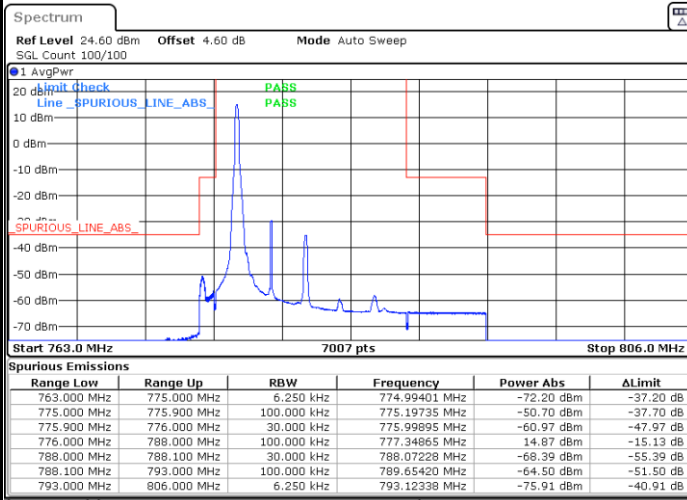


Date: 12.OCT.2022 17:25:56



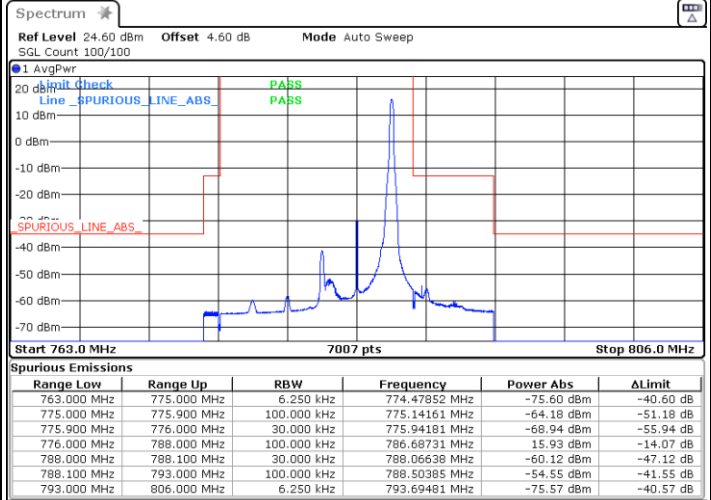
LTE Band 13 / 5MHz / 256QAM

Lowest Band Edge / 1RB



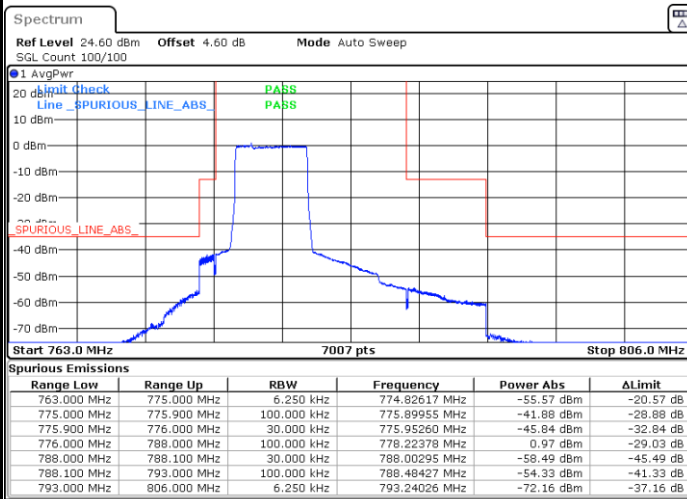
Date: 2.NOV.2022 09:48:22

Highest Band Edge / 1 RB



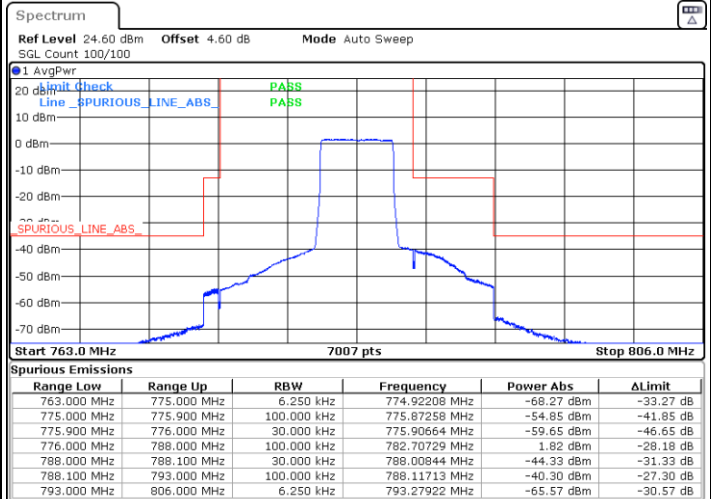
Date: 2.NOV.2022 11:00:36

Lowest Band Edge / Full RB



Date: 2.NOV.2022 09:35:49

Highest Band Edge / Full RB



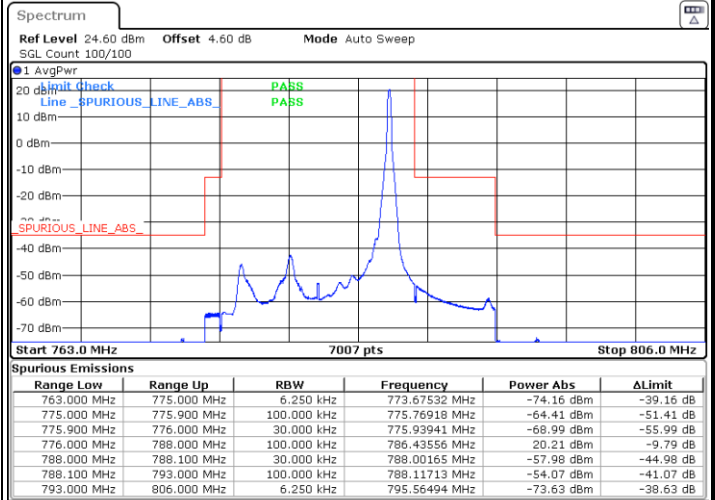
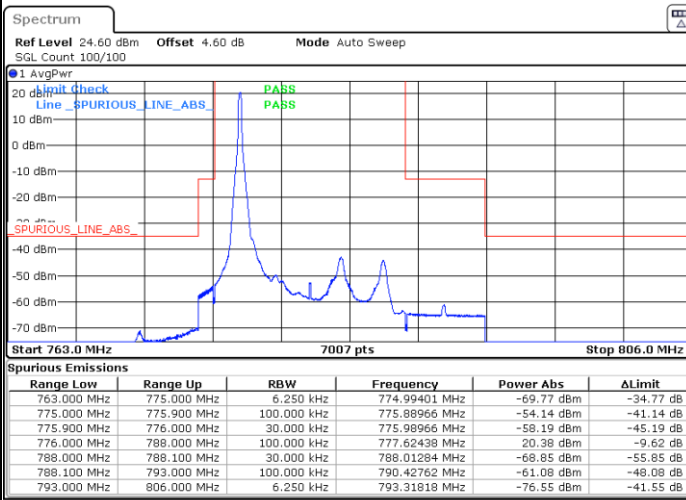
Date: 2.NOV.2022 10:58:35



LTE Band 13 / 10MHz / QPSK

middle Band Edge / 1 RB

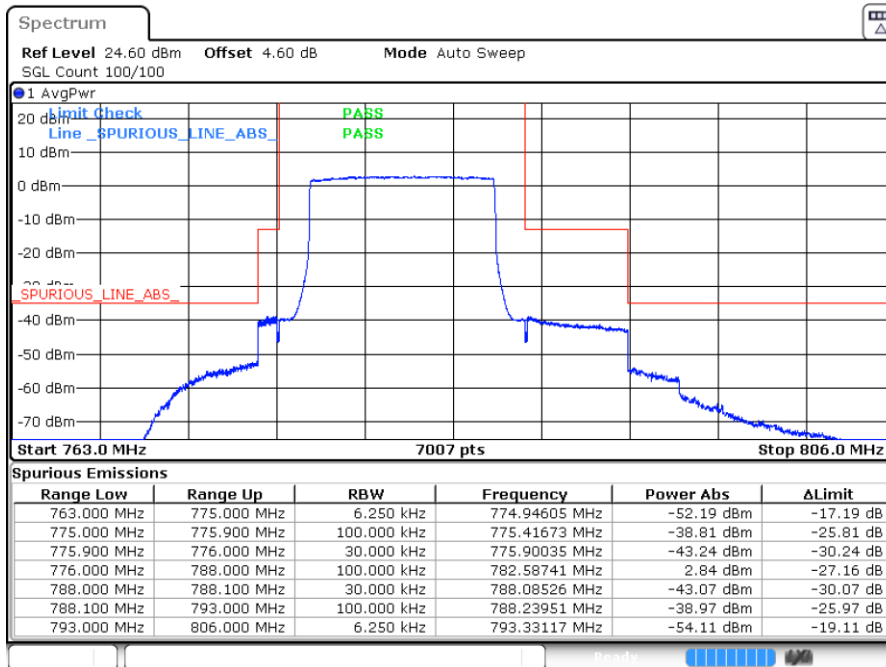
middle Band Edge / 1 RB



Date: 12.OCT.2022 17:32:46

Date: 12.OCT.2022 17:41:52

Middle Band Edge / Full RB

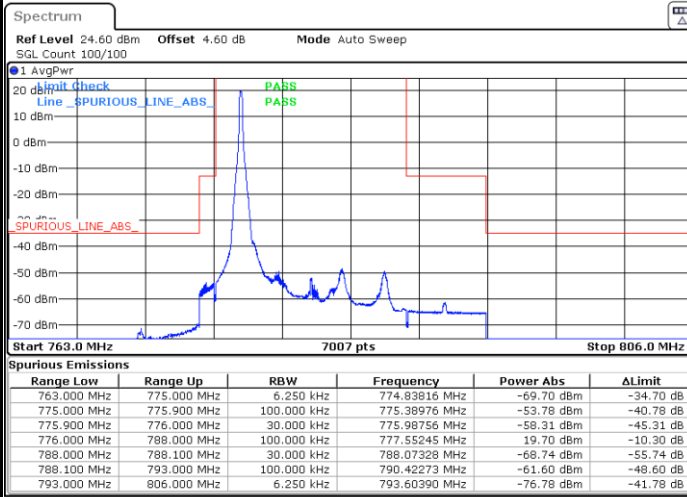


Date: 12.OCT.2022 17:43:42



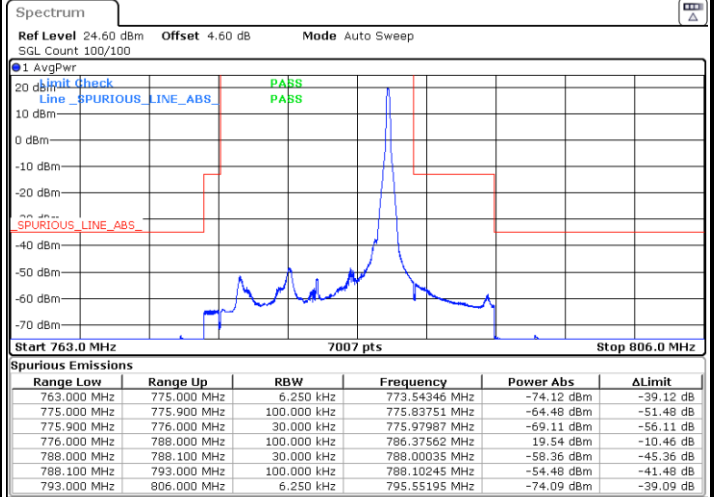
LTE Band 13 / 10MHz / 16QAM

middle Band Edge / 1 RB



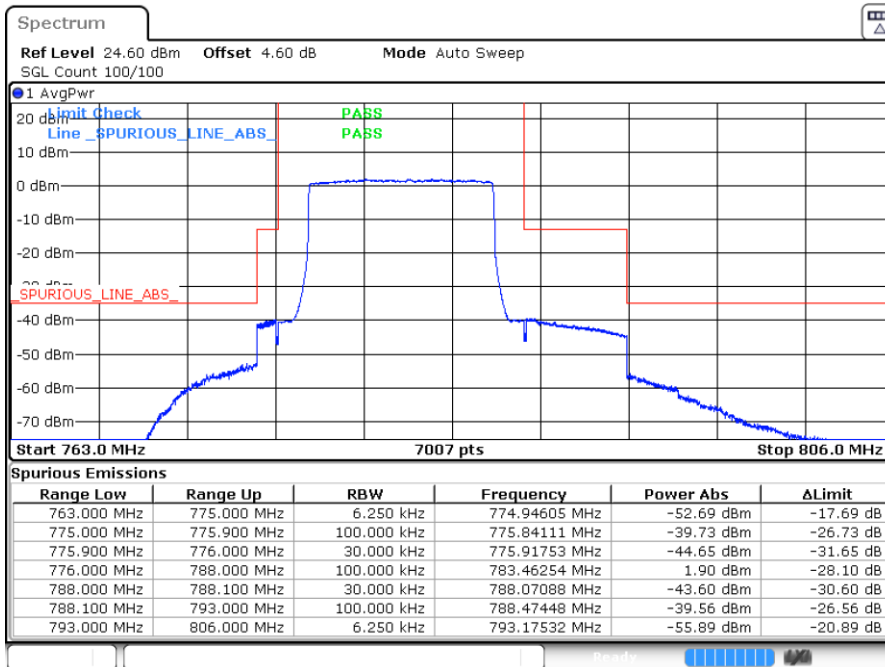
Date: 12.OCT.2022 17:34:35

middle Band Edge / 1 RB



Date: 12.OCT.2022 17:40:03

middle Band Edge / Full RB



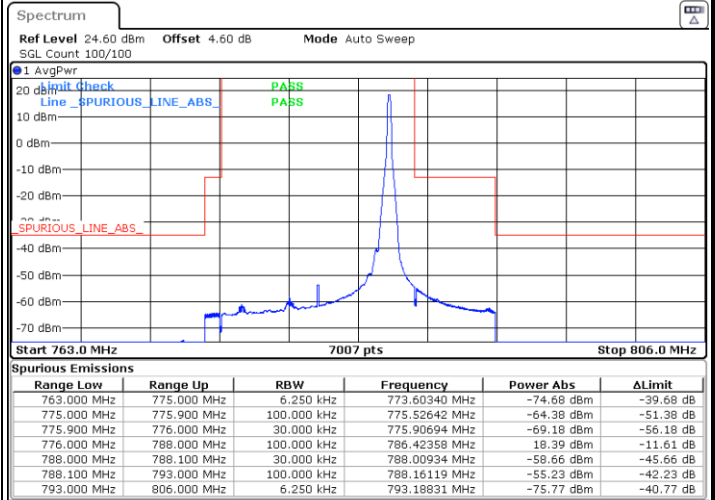
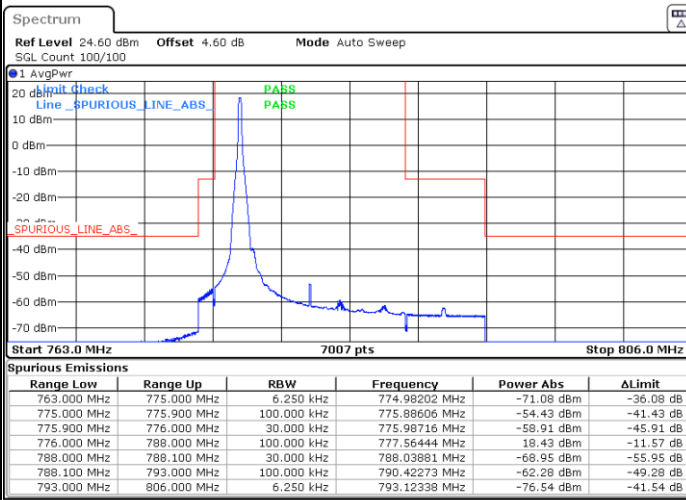
Date: 12.OCT.2022 17:45:31



LTE Band 13 / 10MHz / 64QAM

middle Band Edge / 1 RB

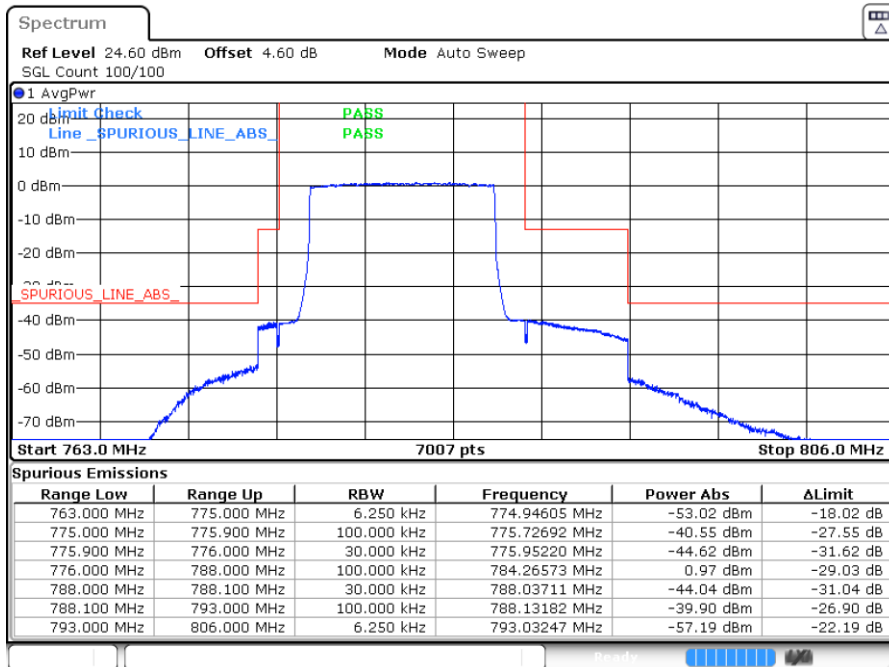
middle Band Edge / 1 RB



Date: 12.OCT.2022 17:36:24

Date: 12.OCT.2022 17:38:14

middle Band Edge / Full RB



Date: 12.OCT.2022 17:47:20

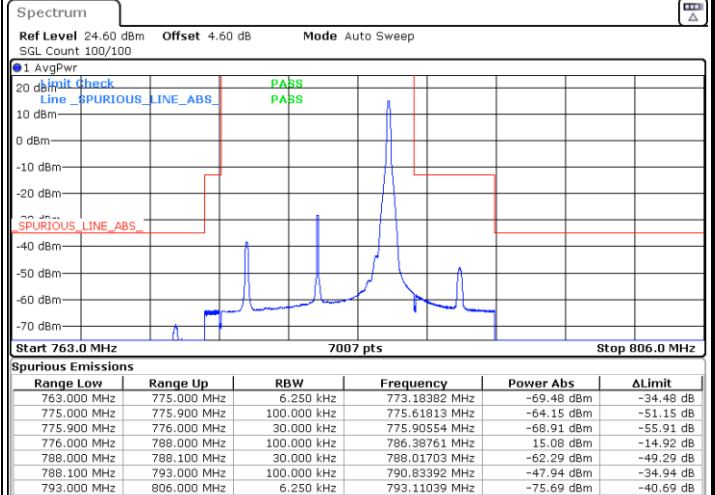
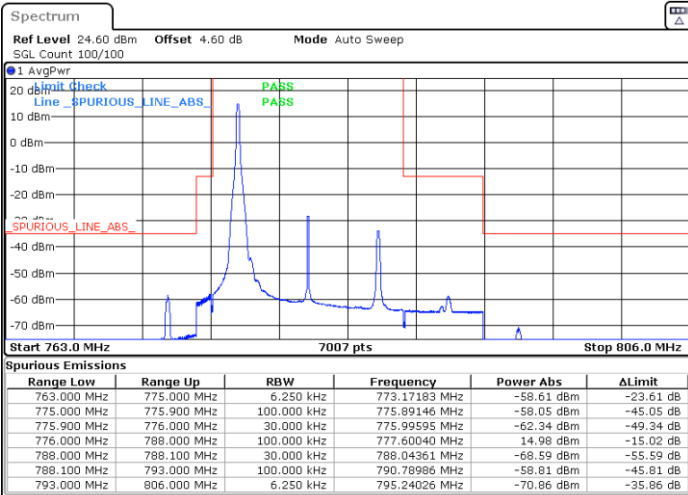




LTE Band 13 / 10MHz / 256QAM

middle Band Edge / 1 RB

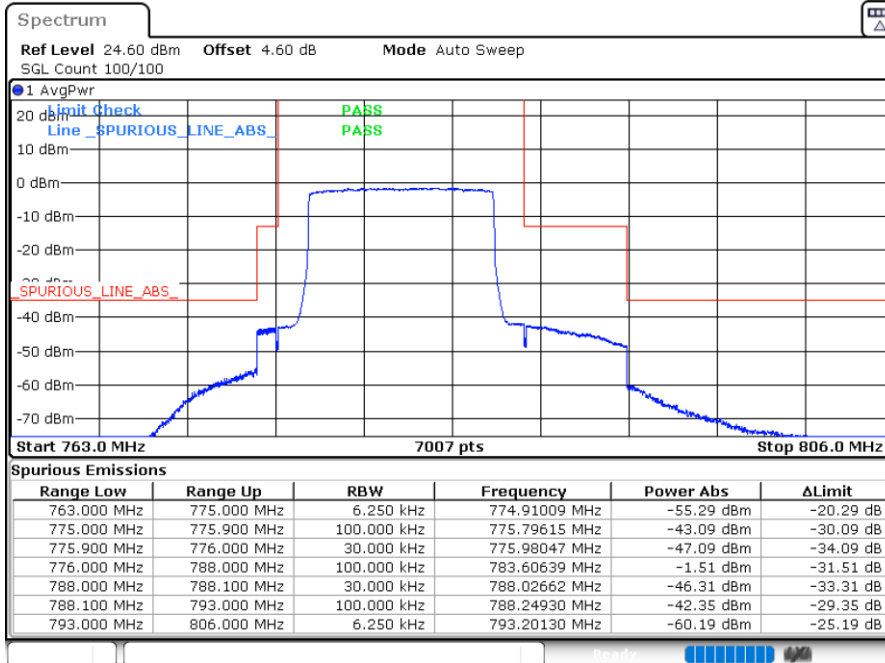
middle Band Edge / 1 RB



Date: 2.NOV.2022 09:30:57

Date: 2.NOV.2022 09:32:13

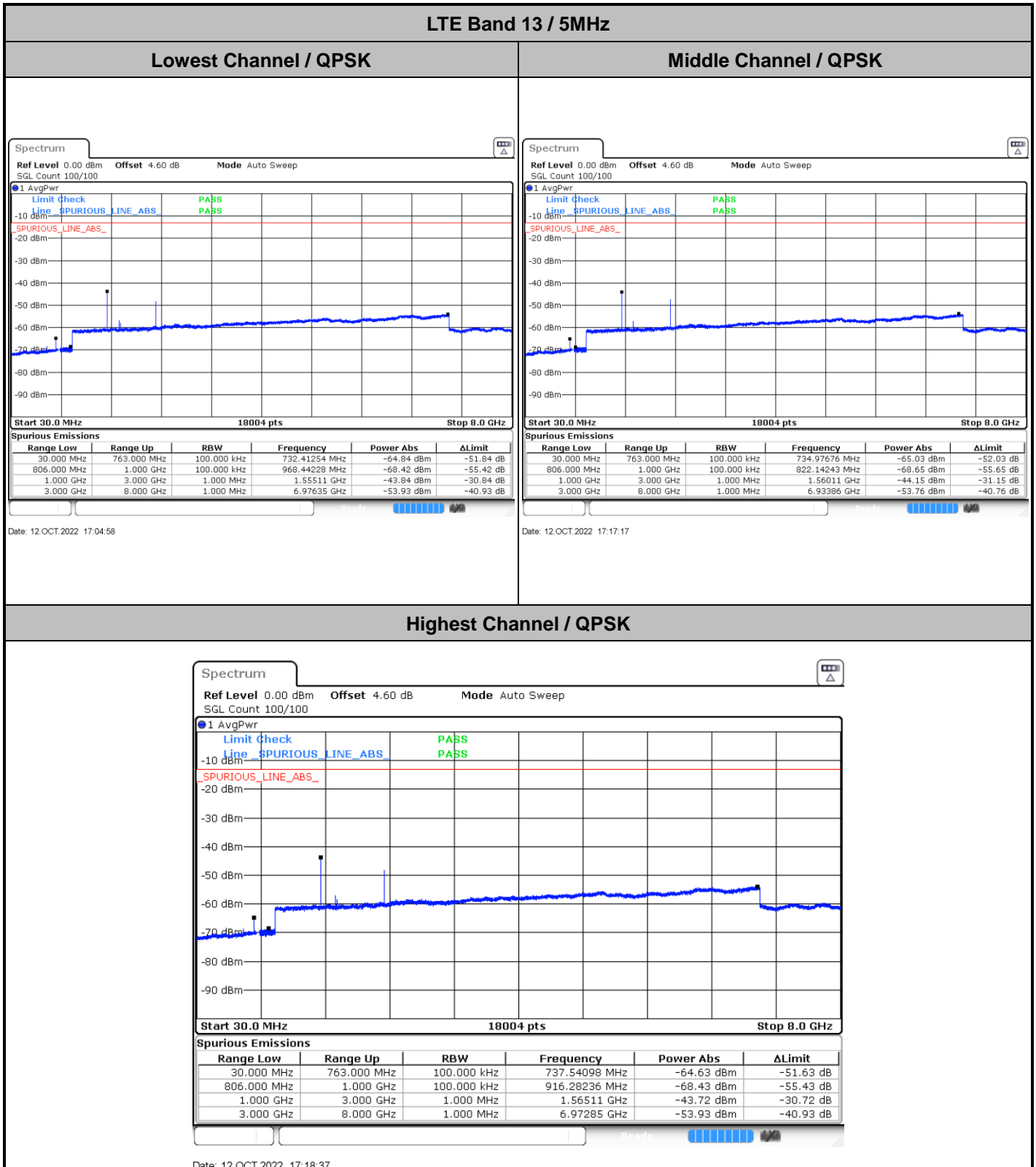
middle Band Edge / Full RB



Date: 2.NOV.2022 09:33:31



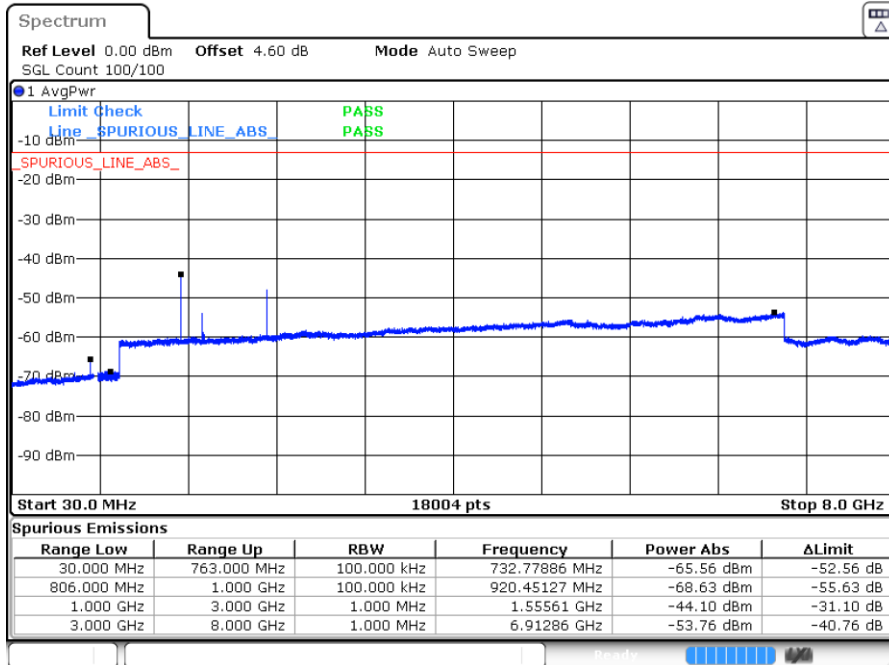
# Conducted Spurious Emission





LTE Band 13 / 10MHz

Middle Channel / QPSK



Date: 12 OCT 2022 17:30:57



Frequency Stability

Test Conditions		LTE Band 13 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0021	PASS
40	Normal Voltage	0.0016	
30	Normal Voltage	0.0011	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0009	
0	Normal Voltage	0.0013	
-10	Normal Voltage	0.0025	
-20	Normal Voltage	0.0023	
-30	Normal Voltage	0.0027	
20	Maximum Voltage	0.0015	
20	Normal Voltage	0.0007	
20	Battery End Point	0.0019	

Note:

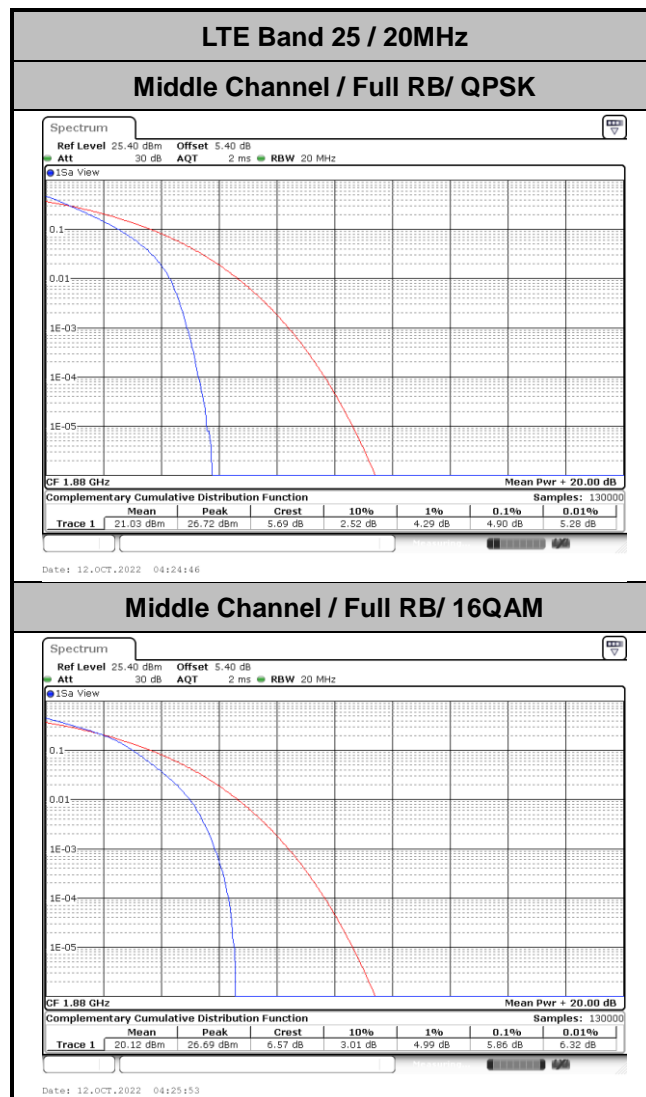
1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.45 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

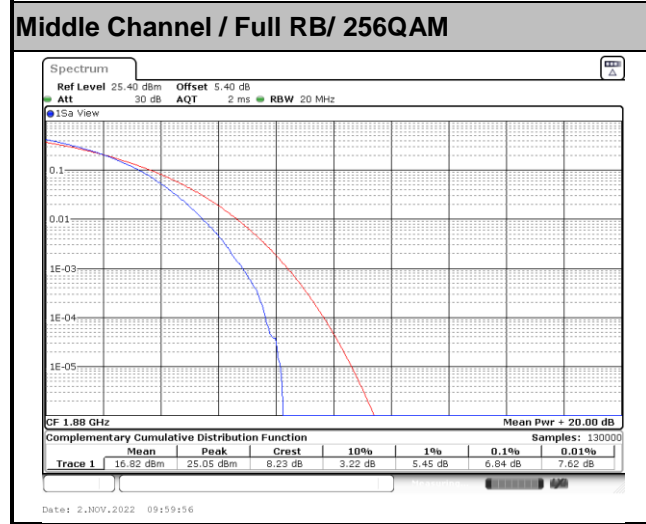
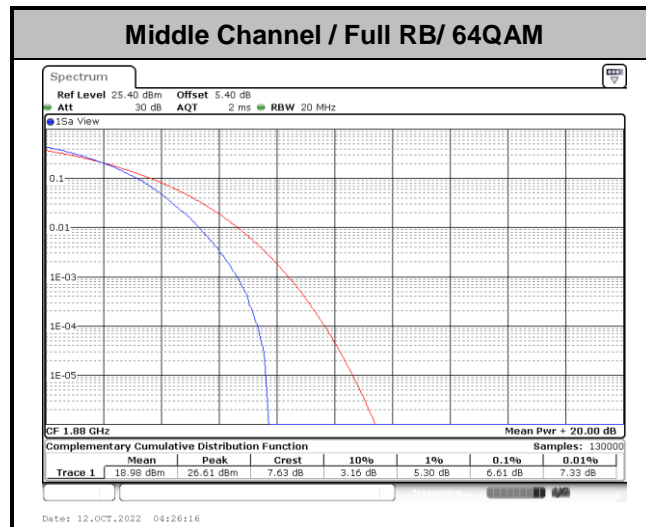


# LTE Band 25

## Peak-to-Average Ratio

Mode	LTE Band 25 / 20MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.90	5.86	6.61	6.84	PASS

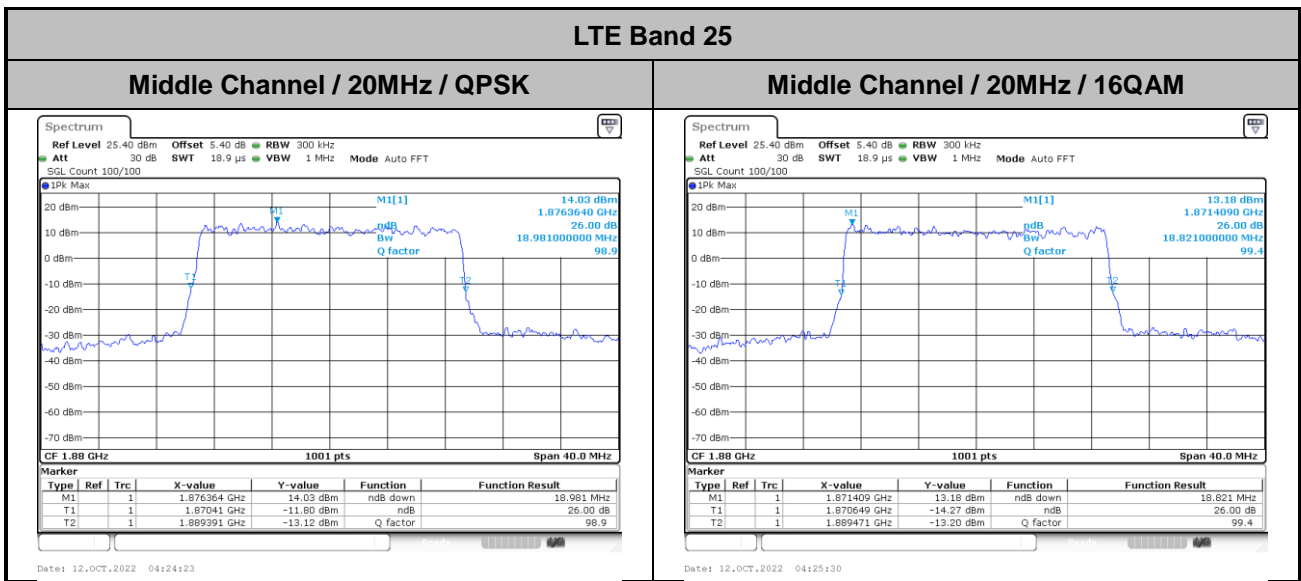






**26dB Bandwidth**

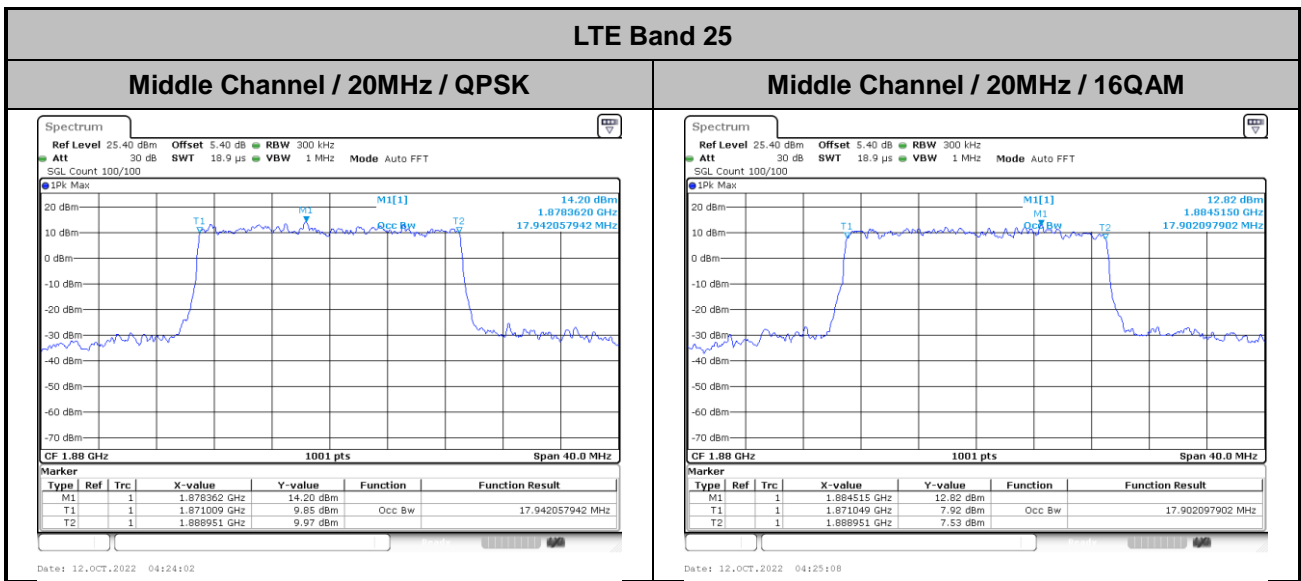
Mode	LTE Band 25 : 26dB BW(MHz)	
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	18.98	18.82





## Occupied Bandwidth

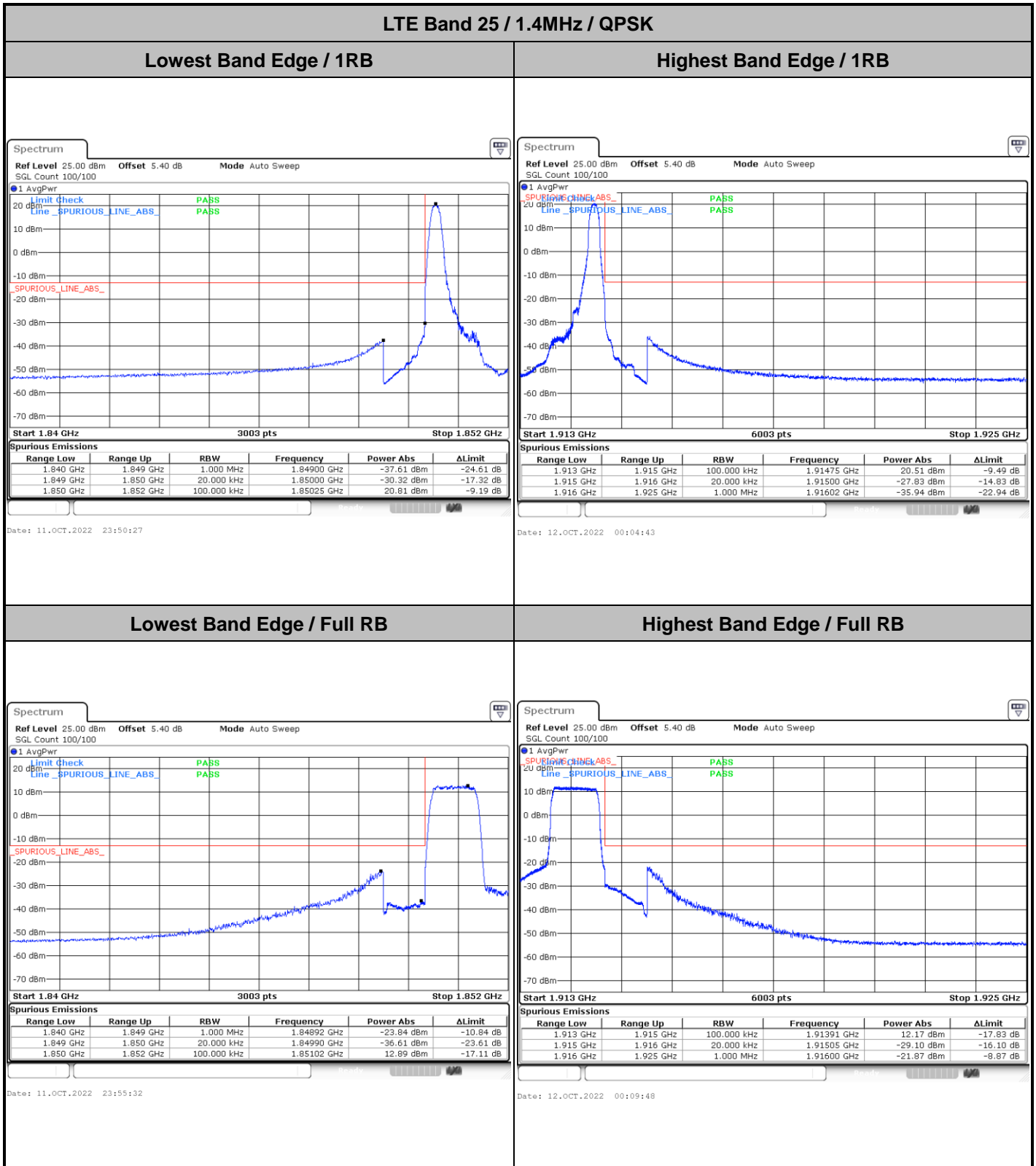
<b>Mode</b>	<b>LTE Band 25 : 99%OBW(MHz)</b>	
<b>BW</b>	<b>20MHz</b>	
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>
<b>Middle CH</b>	17.94	17.90







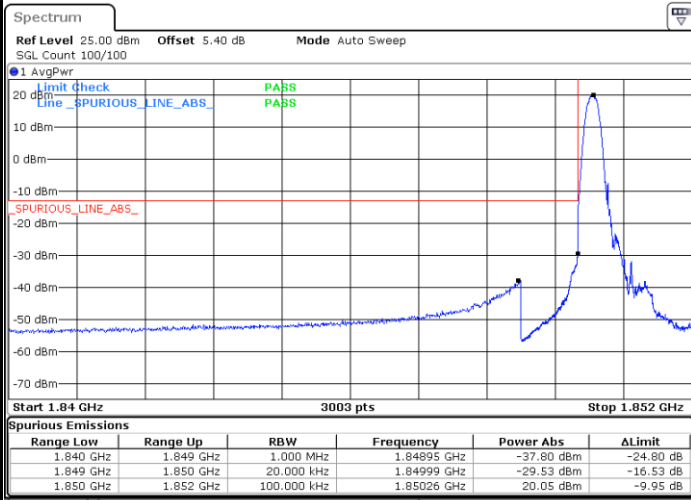
# Conducted Band Edge





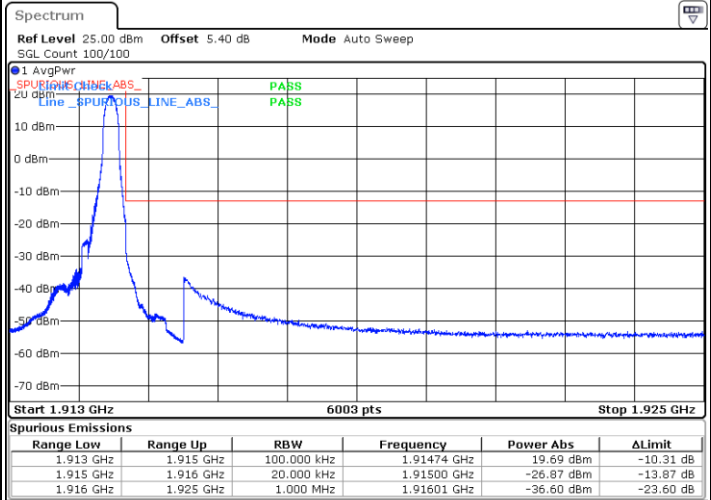
LTE Band 25 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



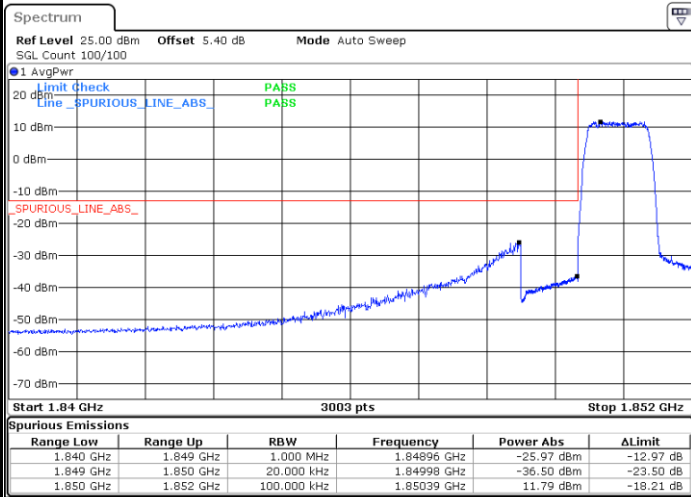
Date: 11.OCT.2022 23:52:09

Highest Band Edge / 1 RB



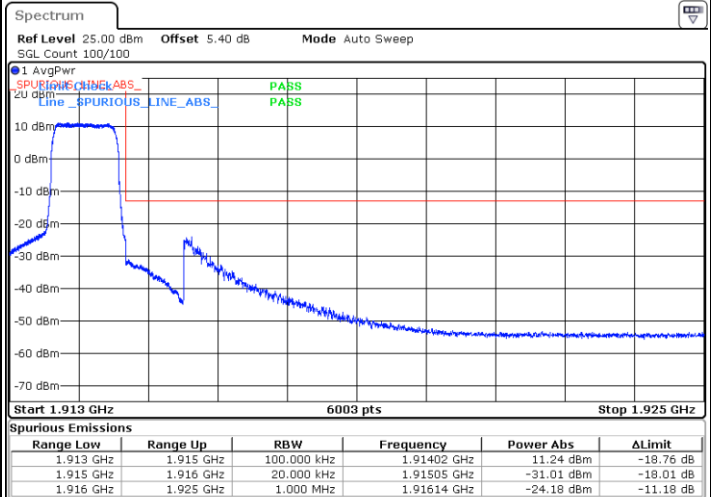
Date: 12.OCT.2022 00:06:25

Lowest Band Edge / Full RB



Date: 11.OCT.2022 23:57:13

Highest Band Edge / Full RB

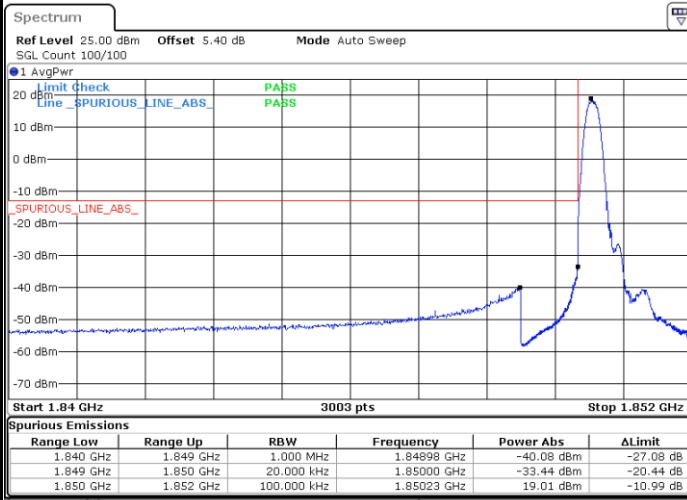


Date: 12.OCT.2022 00:11:29



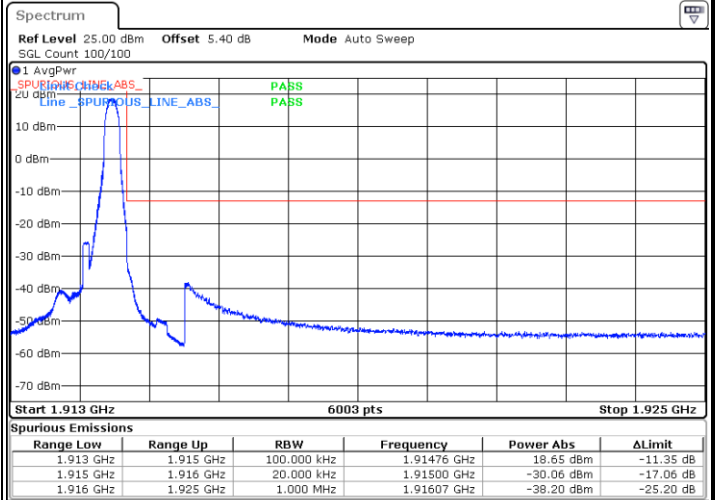
LTE Band 25 / 1.4MHz / 64QAM

Lowest Band Edge / 1 RB



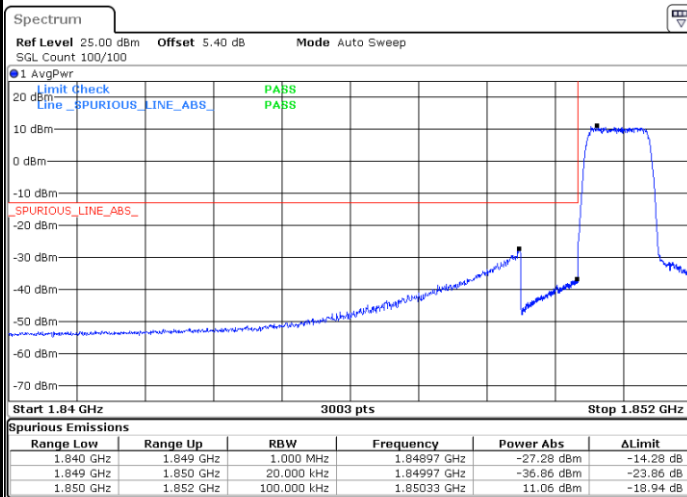
Date: 11.OCT.2022 23:53:50

Highest Band Edge / 1 RB



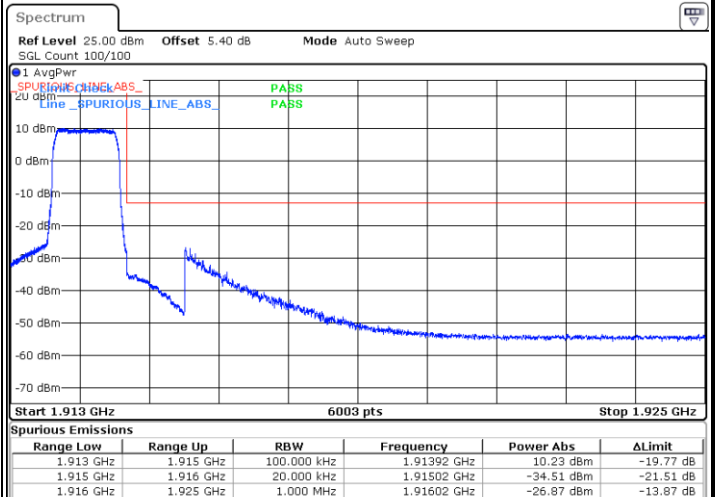
Date: 12.OCT.2022 00:08:06

Lowest Band Edge / Full RB



Date: 11.OCT.2022 23:58:54

Highest Band Edge / Full RB

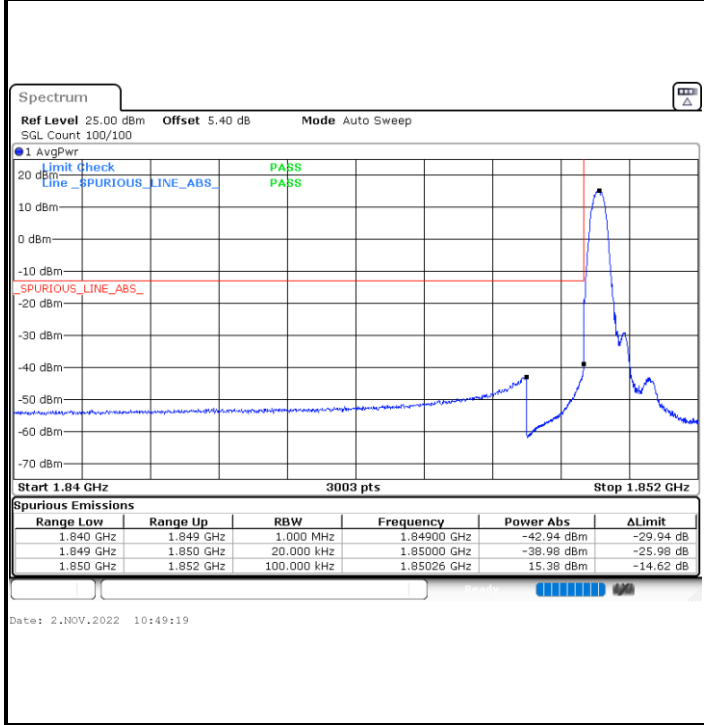


Date: 12.OCT.2022 00:13:10

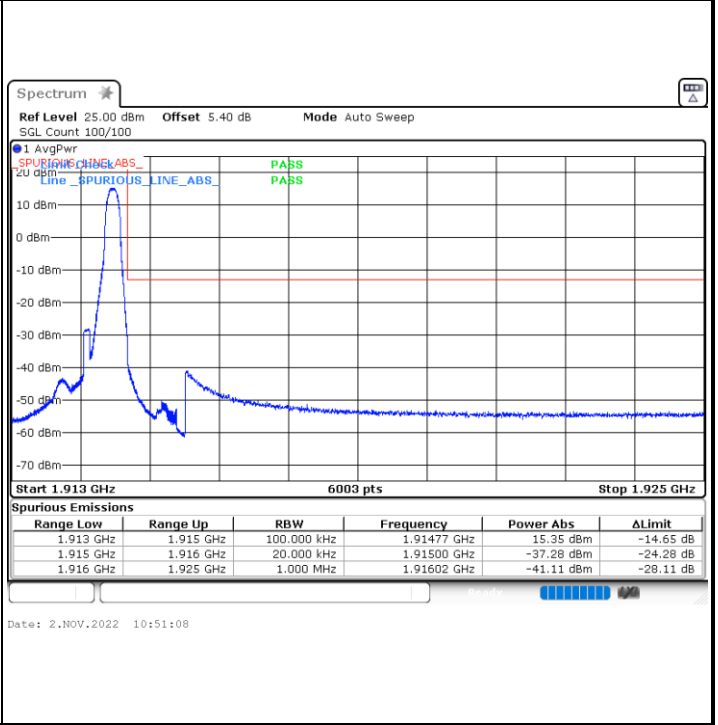


LTE Band 25 / 1.4MHz / 256QAM

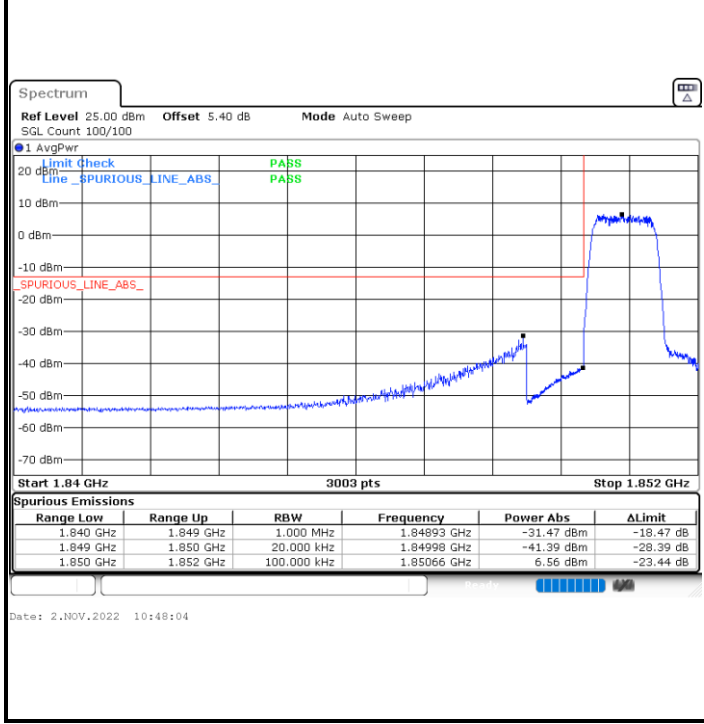
Lowest Band Edge / 1 RB



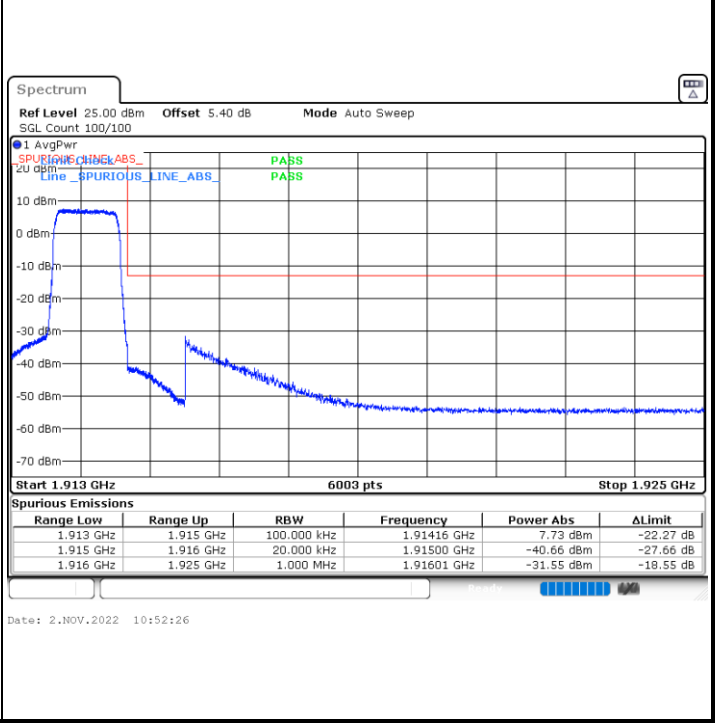
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



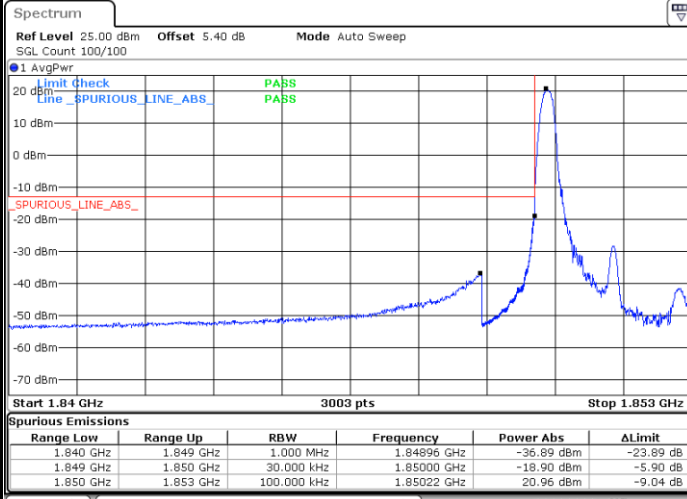
Highest Band Edge / Full RB





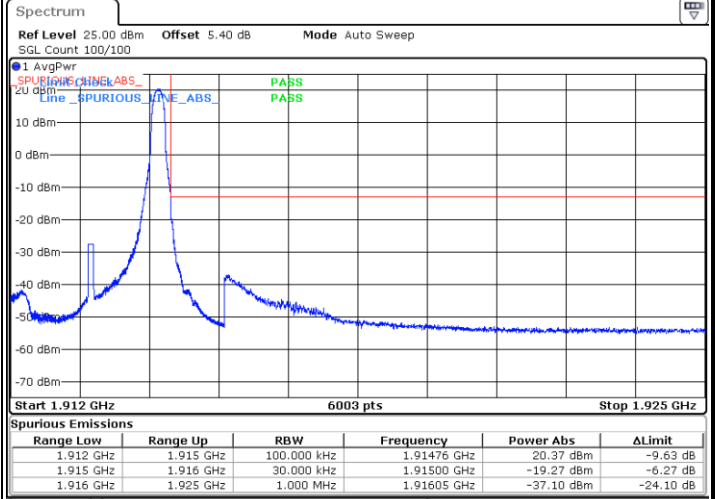
LTE Band 25 / 3MHz / QPSK

Lowest Band Edge / 1RB



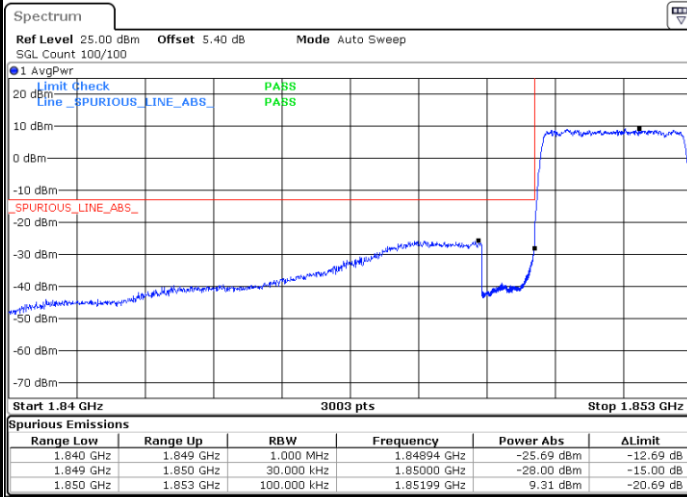
Date: 12.OCT.2022 00:14:52

Highest Band Edge / 1 RB



Date: 12.OCT.2022 00:29:05

Lowest Band Edge / Full RB



Date: 12.OCT.2022 00:19:55

Highest Band Edge / Full RB

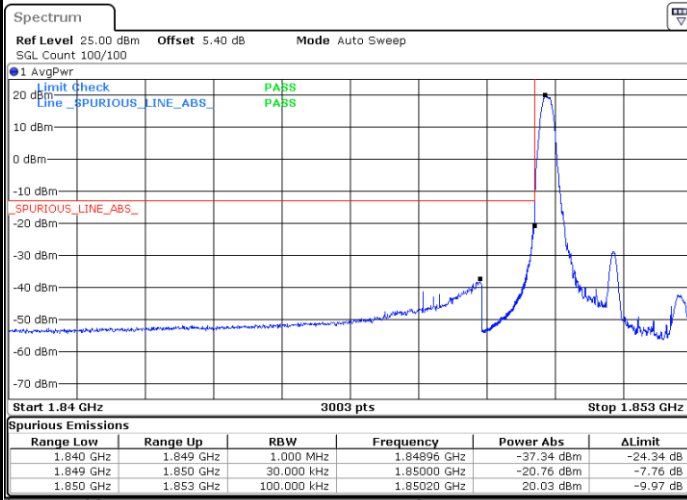


Date: 12.OCT.2022 00:34:09



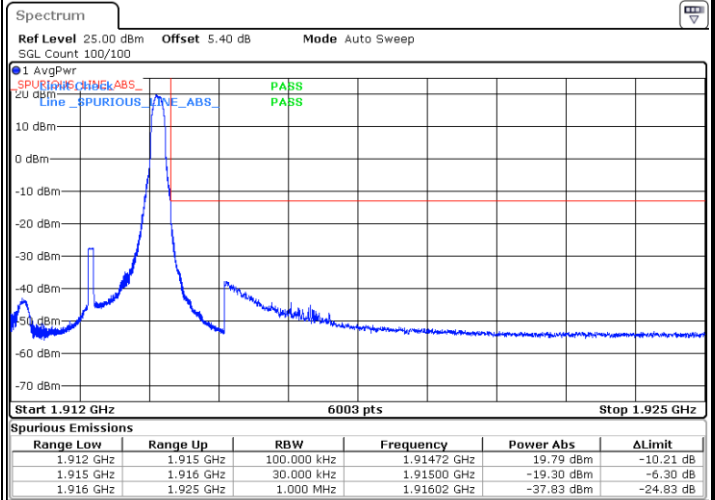
LTE Band 25 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



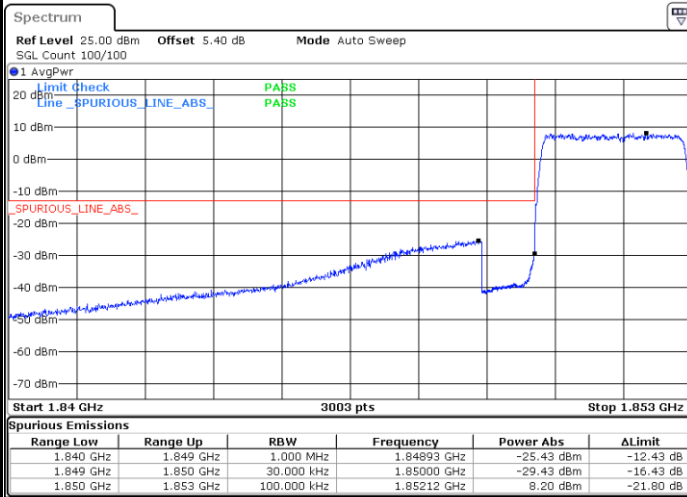
Date: 12.OCT.2022 00:16:33

Highest Band Edge / 1 RB



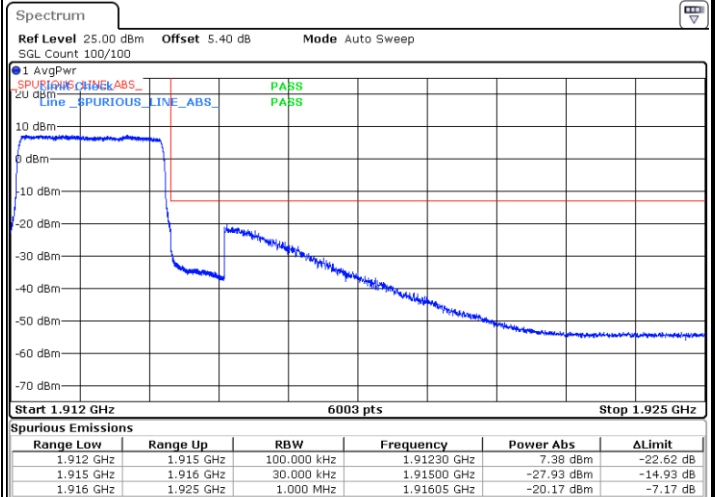
Date: 12.OCT.2022 00:30:46

Lowest Band Edge / Full RB



Date: 12.OCT.2022 00:21:35

Highest Band Edge / Full RB

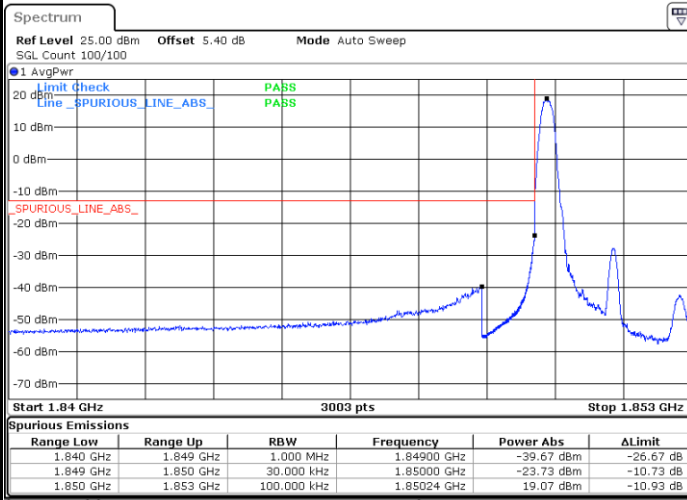


Date: 12.OCT.2022 00:35:50



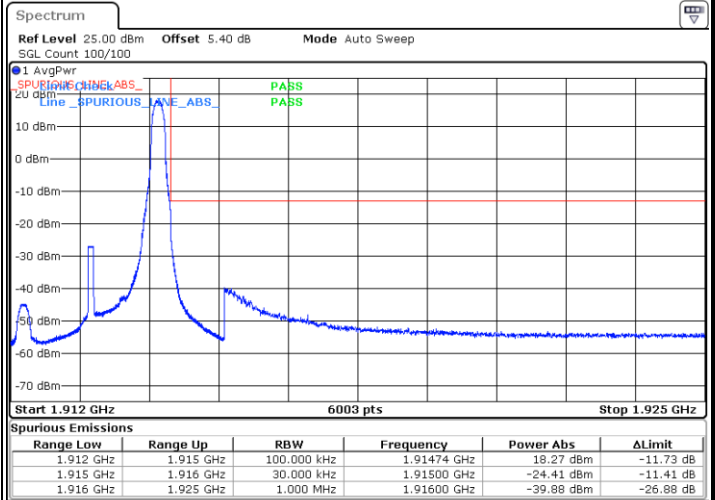
LTE Band 25 / 3MHz / 64QAM

Lowest Band Edge / 1 RB



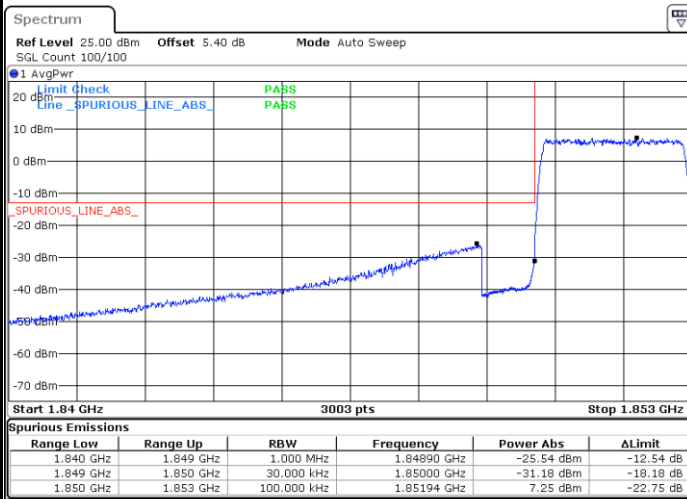
Date: 12.OCT.2022 00:18:14

Highest Band Edge / 1 RB



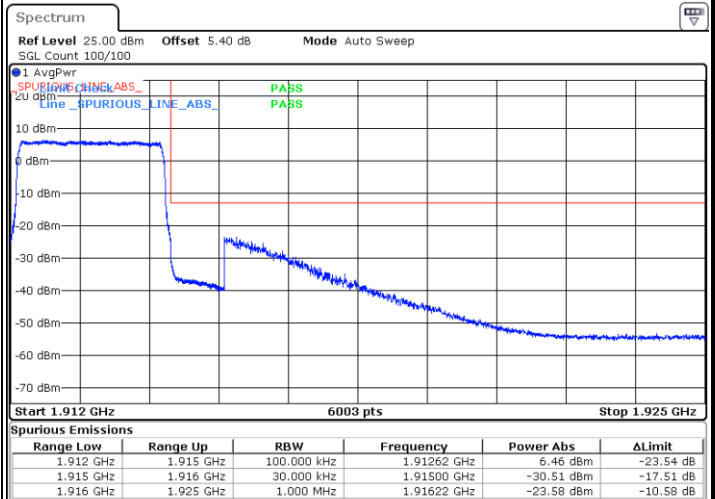
Date: 12.OCT.2022 00:32:27

Lowest Band Edge / Full RB



Date: 12.OCT.2022 00:23:16

Highest Band Edge / Full RB

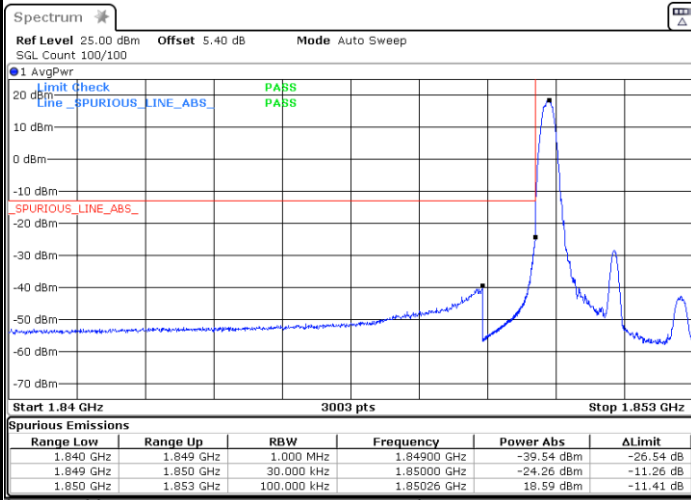


Date: 12.OCT.2022 00:37:31



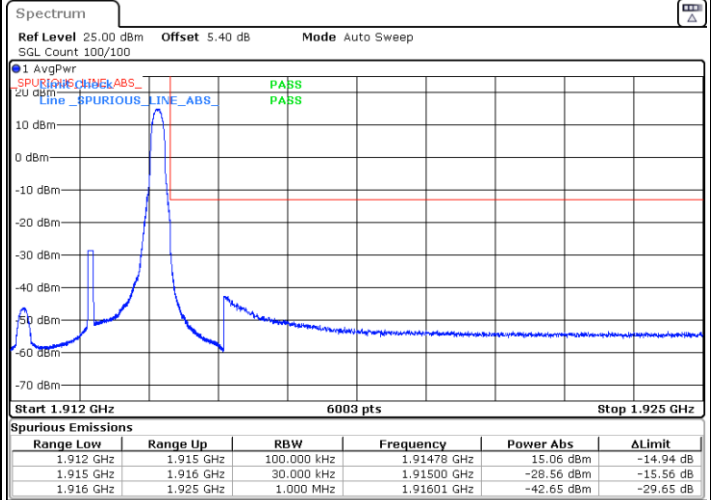
LTE Band 25 / 3MHz /256QAM

Lowest Band Edge / 1 RB



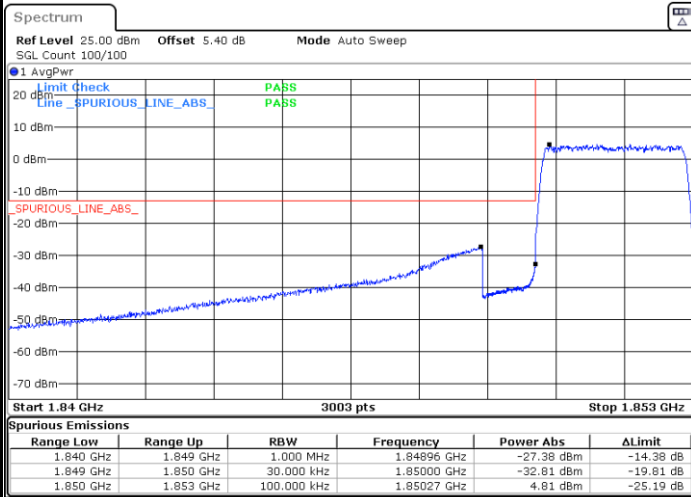
Date: 2.NOV.2022 10:42:08

Highest Band Edge / 1 RB



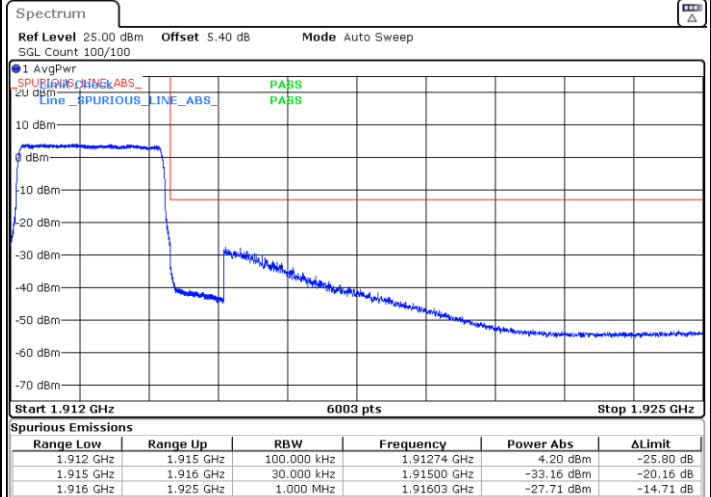
Date: 2.NOV.2022 10:45:44

Lowest Band Edge / Full RB



Date: 2.NOV.2022 10:42:59

Highest Band Edge / Full RB



Date: 2.NOV.2022 10:44:38