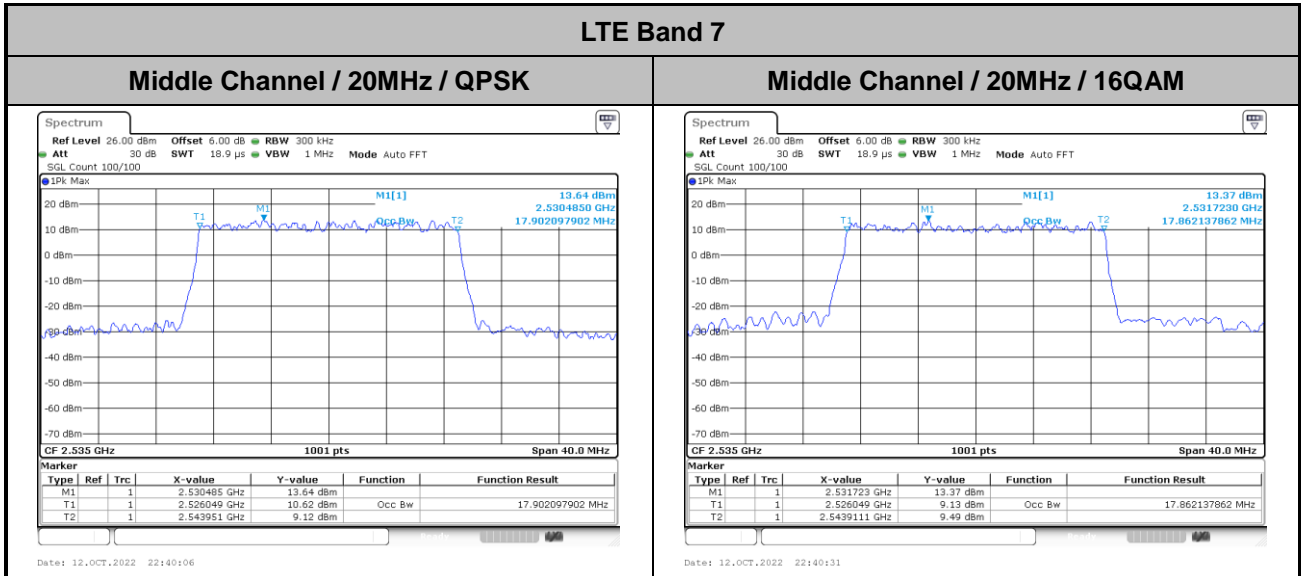




# Occupied Bandwidth

Mode	LTE Band 7 : 99%OBW(MHz)	
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	17.90	17.86

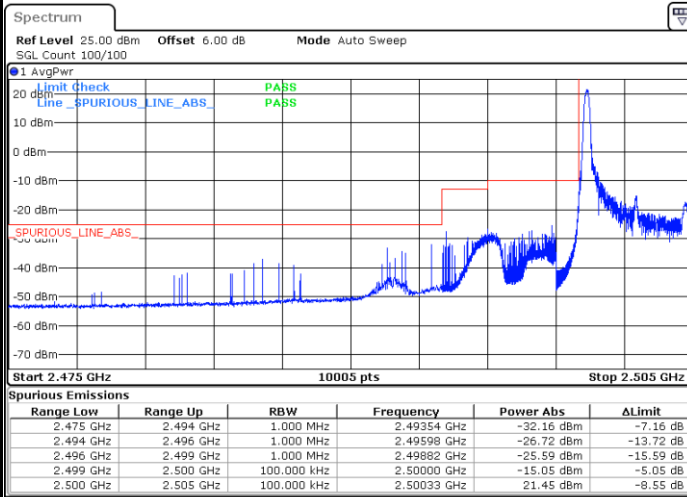




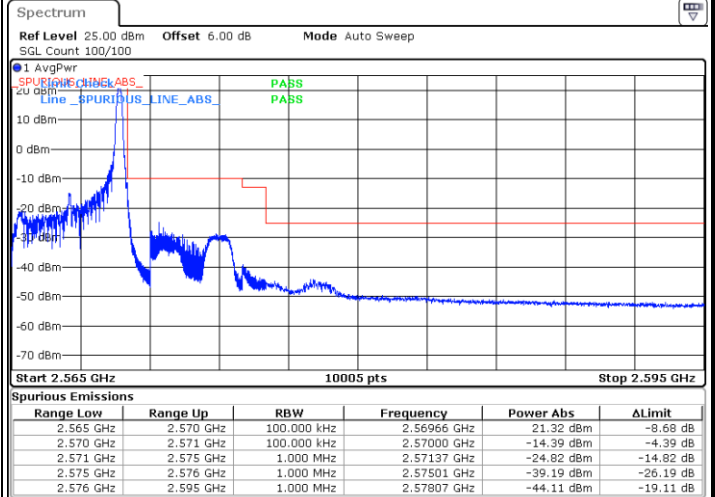
# Conducted Band Edge

## LTE Band 7 / 5MHz / QPSK

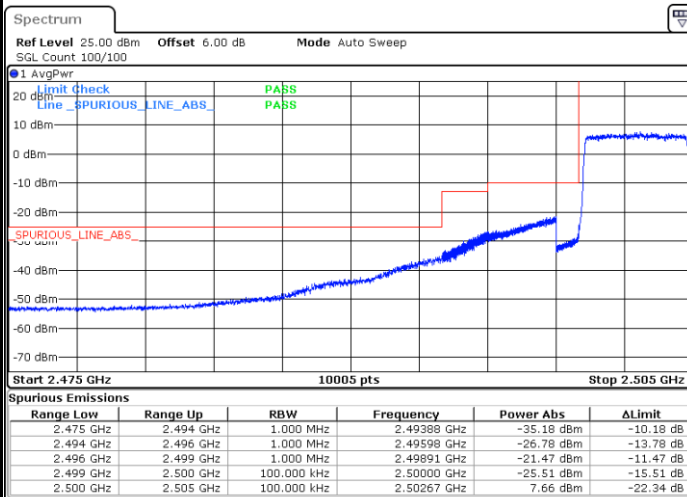
### Lowest Band Edge / 1 RB



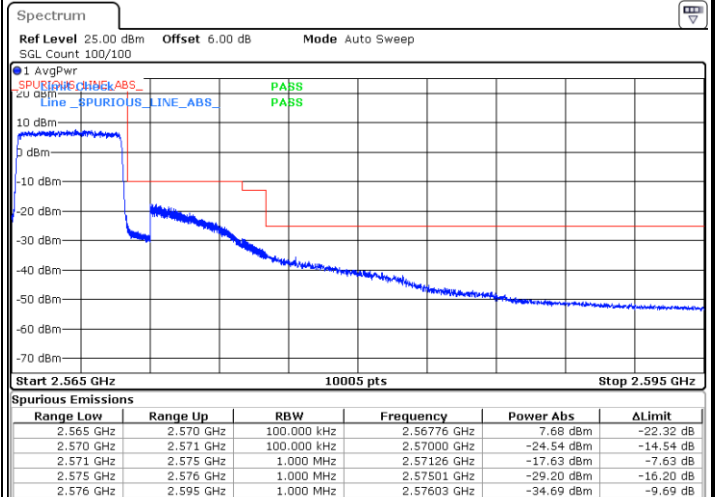
### Highest Band Edge / 1 RB



### Lowest Band Edge / Full RB



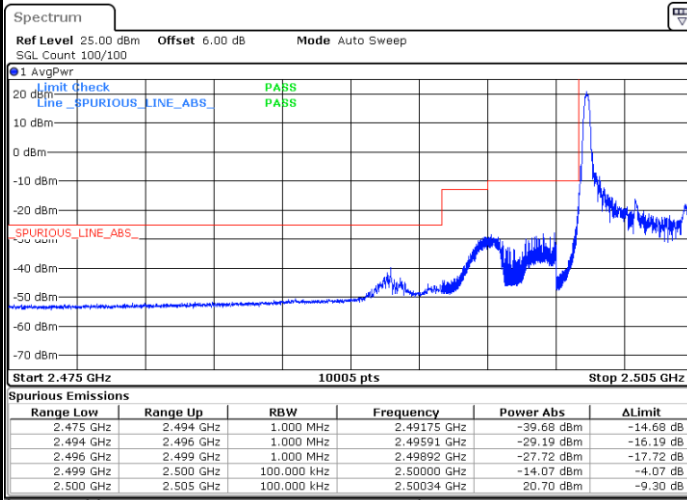
### Highest Band Edge / Full RB





LTE Band 7 / 5MHz / 16QAM

Lowest Band Edge / 1RB



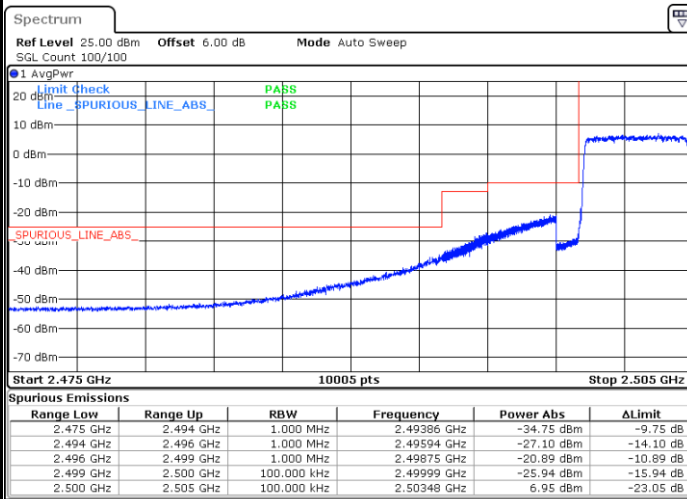
Date: 12.OCT.2022 17:48:28

Highest Band Edge / 1 RB



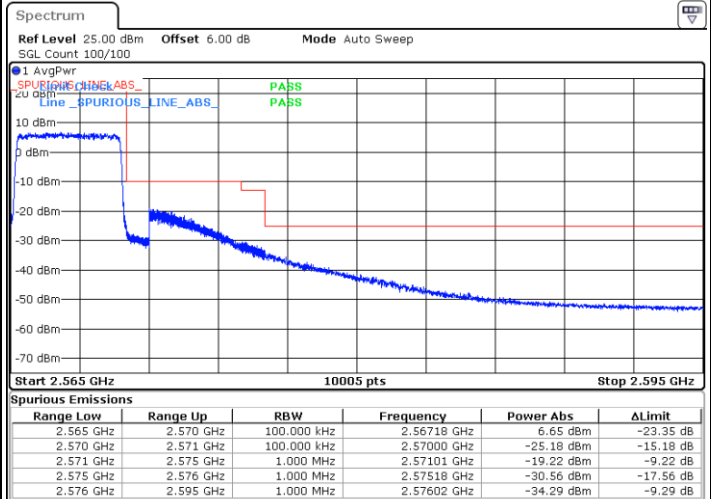
Date: 12.OCT.2022 18:33:43

Lowest Band Edge / Full RB



Date: 12.OCT.2022 17:41:57

Highest Band Edge / Full RB



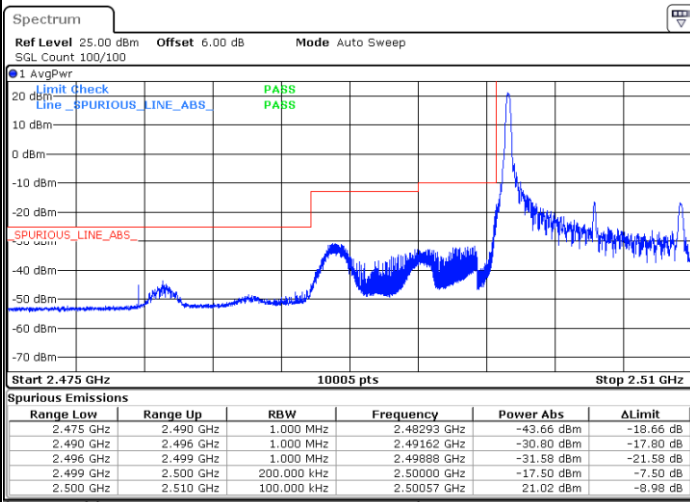
Date: 12.OCT.2022 18:40:04



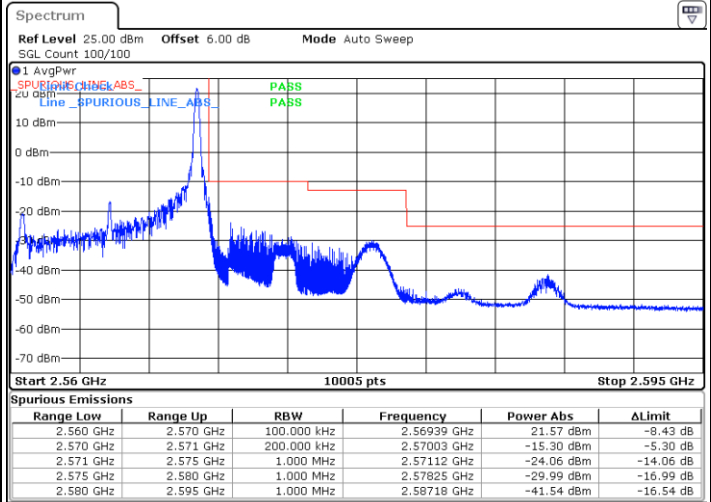
LTE Band 7 / 10MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



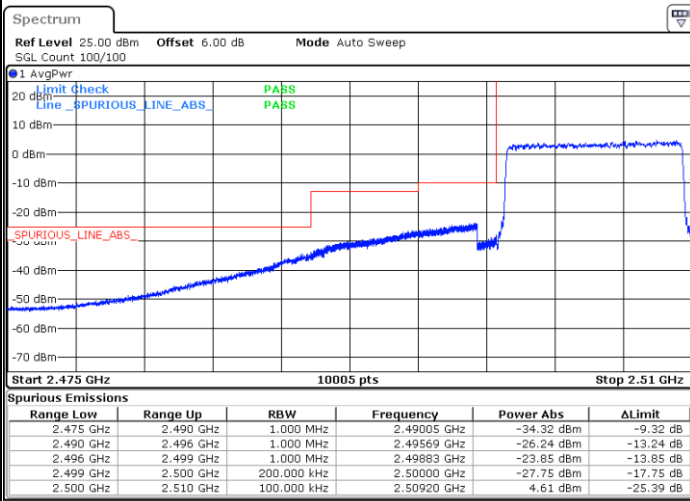
Date: 12.OCT.2022 18:50:44



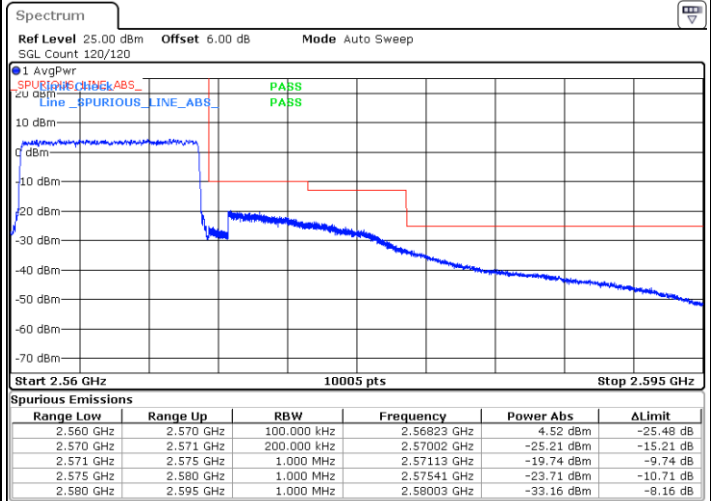
Date: 12.OCT.2022 20:30:26

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 12.OCT.2022 18:44:20

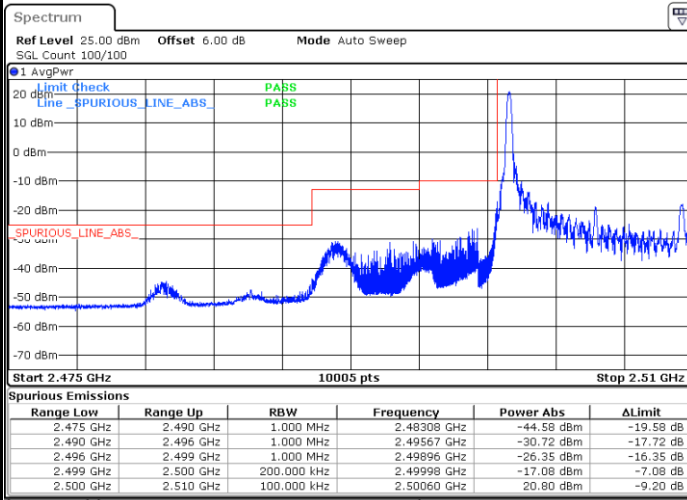


Date: 12.OCT.2022 20:40:51



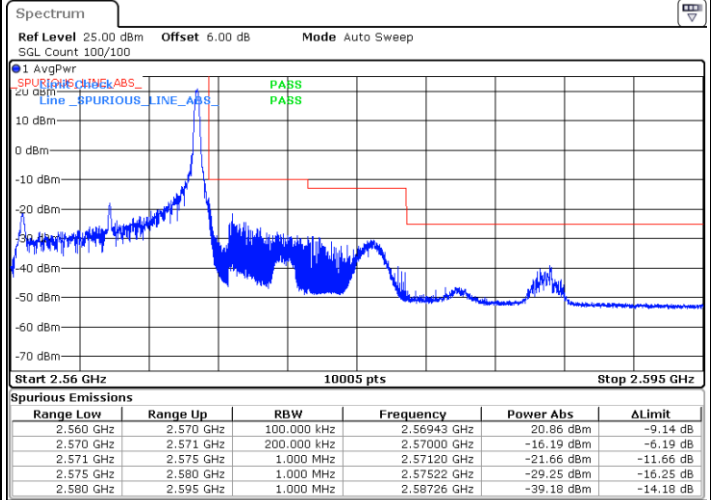
LTE Band 7 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



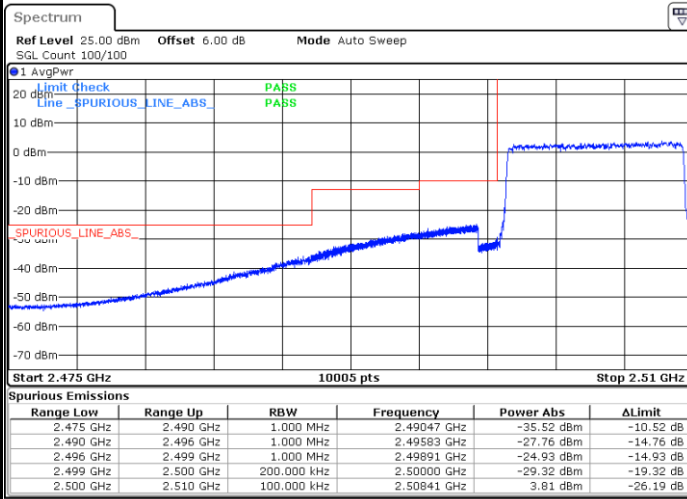
Date: 12.OCT.2022 18:52:51

Highest Band Edge / 1 RB



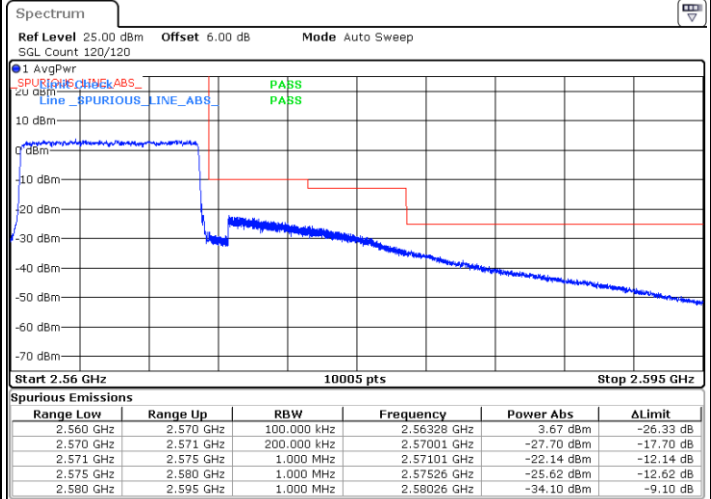
Date: 12.OCT.2022 20:32:34

Lowest Band Edge / Full RB



Date: 12.OCT.2022 18:46:28

Highest Band Edge / Full RB



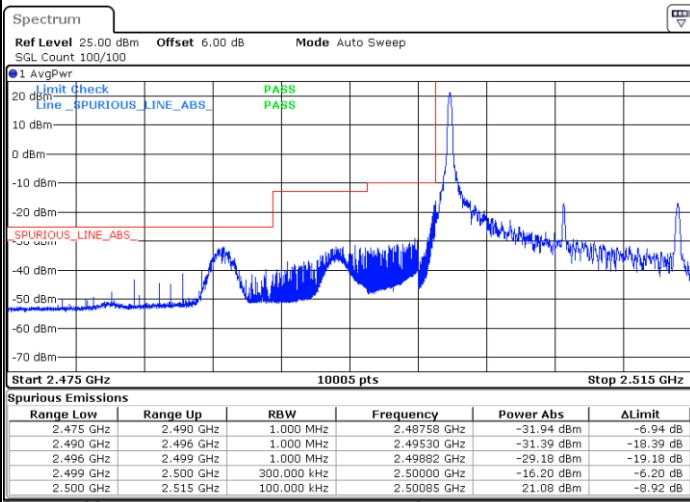
Date: 12.OCT.2022 20:42:59



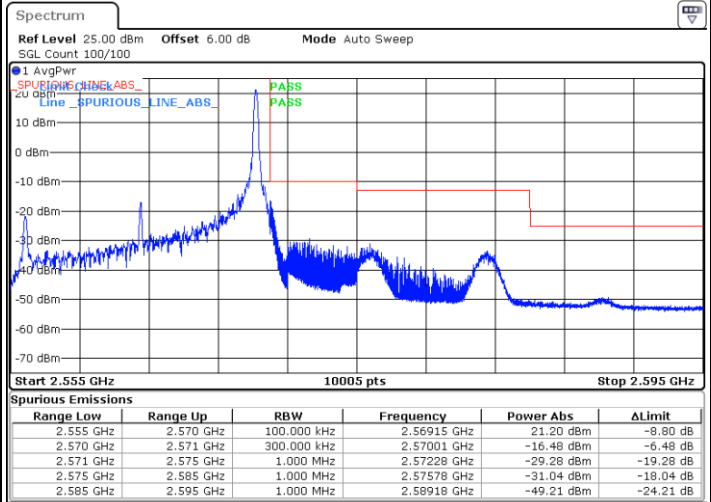
LTE Band 7 / 15MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



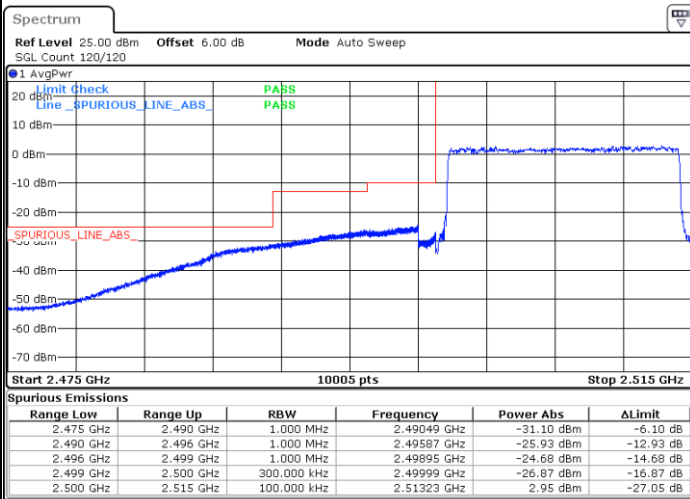
Date: 12.OCT.2022 21:35:50



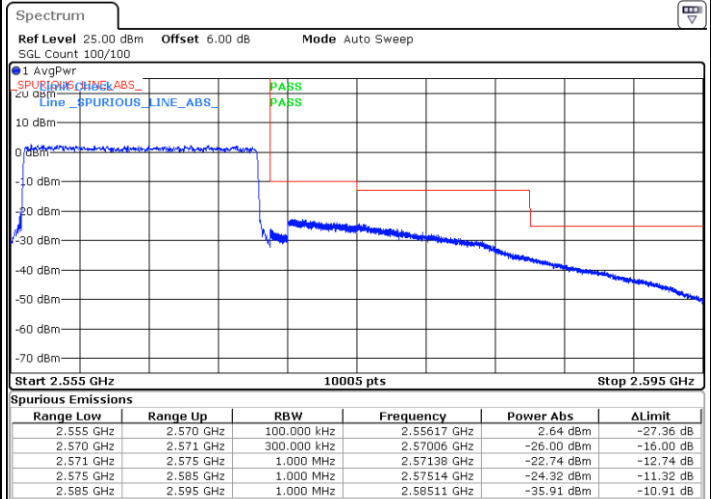
Date: 12.OCT.2022 21:49:00

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 12.OCT.2022 20:47:16

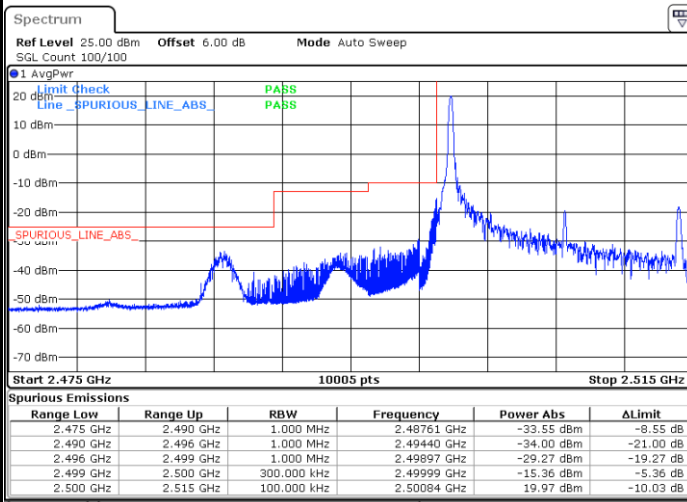


Date: 12.OCT.2022 22:01:12



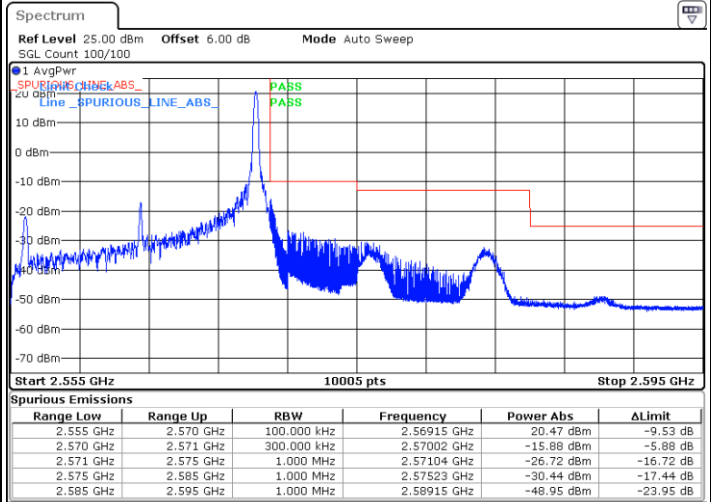
LTE Band 7 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



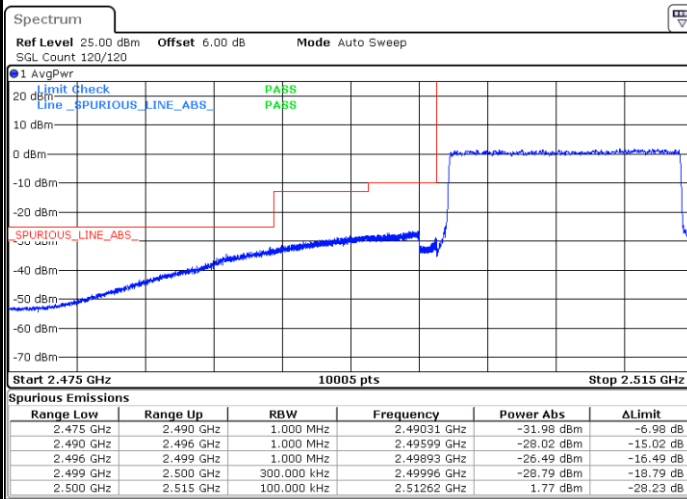
Date: 12.OCT.2022 21:38:15

Highest Band Edge / 1 RB



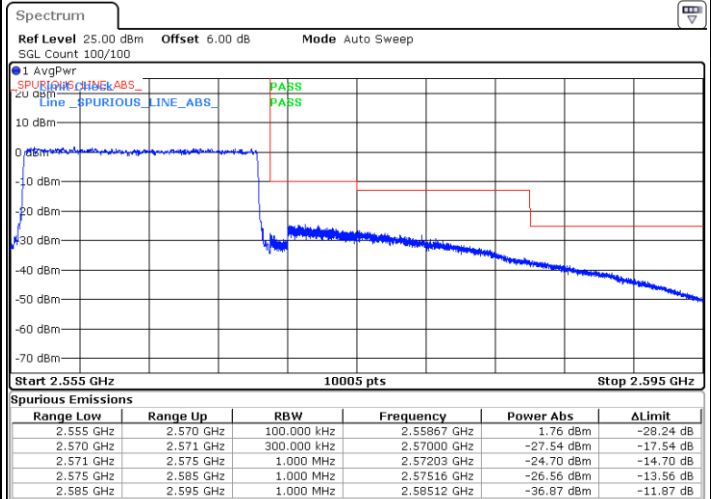
Date: 12.OCT.2022 21:51:27

Lowest Band Edge / Full RB



Date: 12.OCT.2022 20:49:23

Highest Band Edge / Full RB



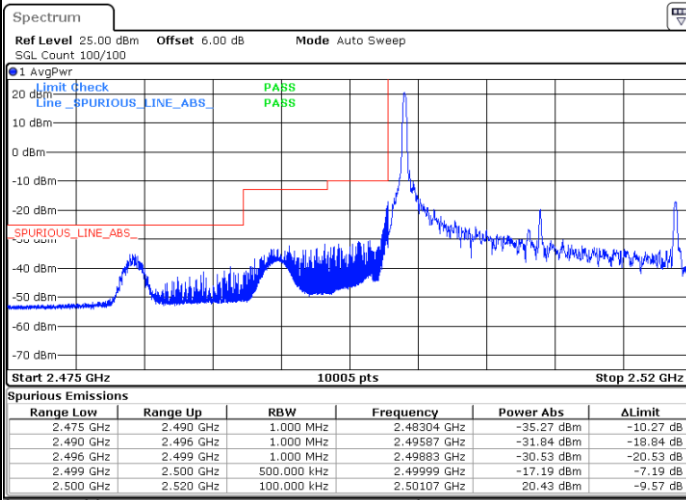
Date: 12.OCT.2022 21:58:46



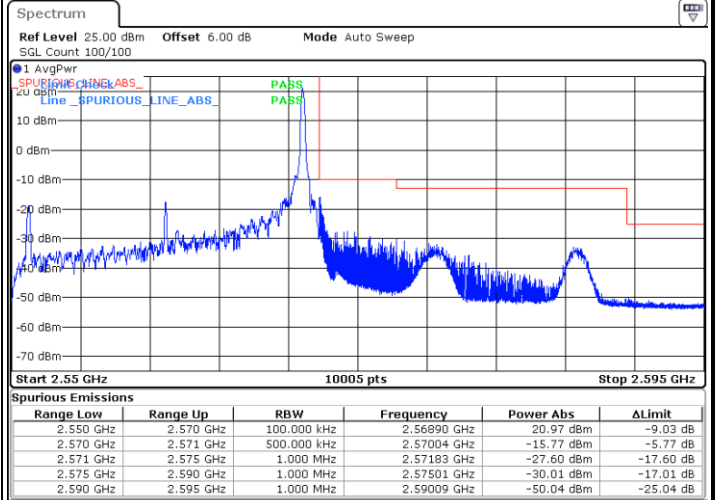
LTE Band 7 / 20MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



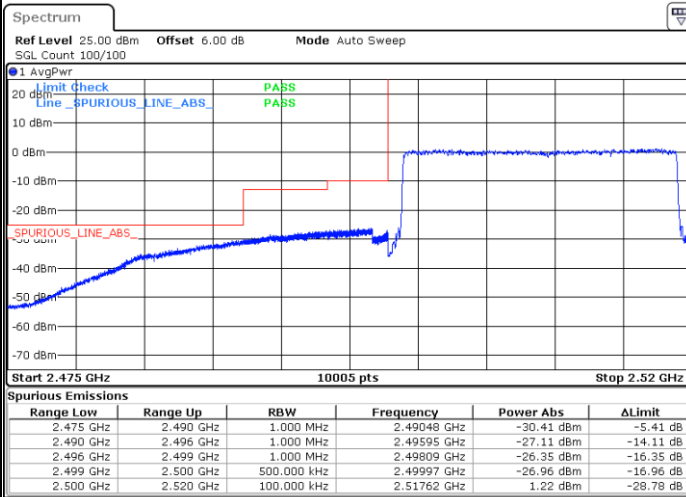
Date: 12.OCT.2022 22:06:35



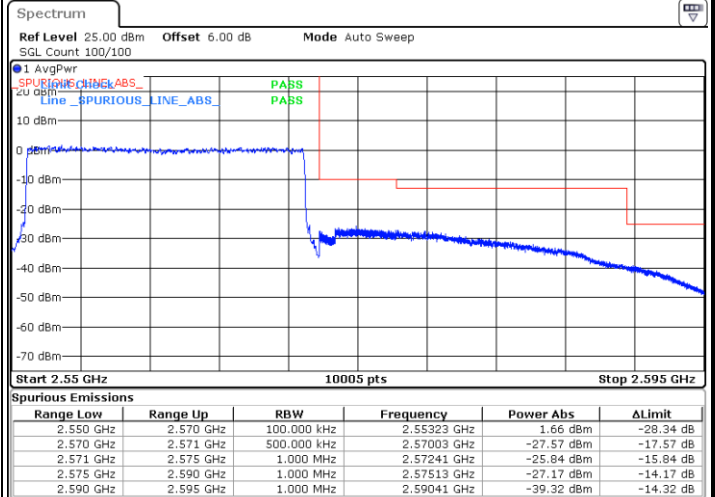
Date: 12.OCT.2022 22:27:02

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 12.OCT.2022 22:18:43



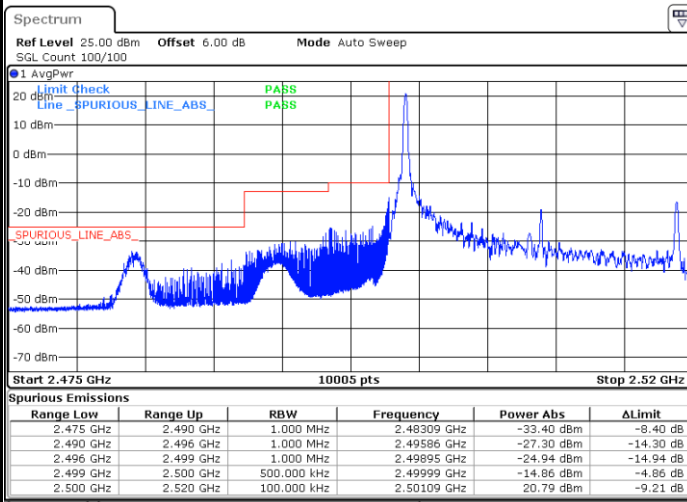
Date: 12.OCT.2022 22:39:15





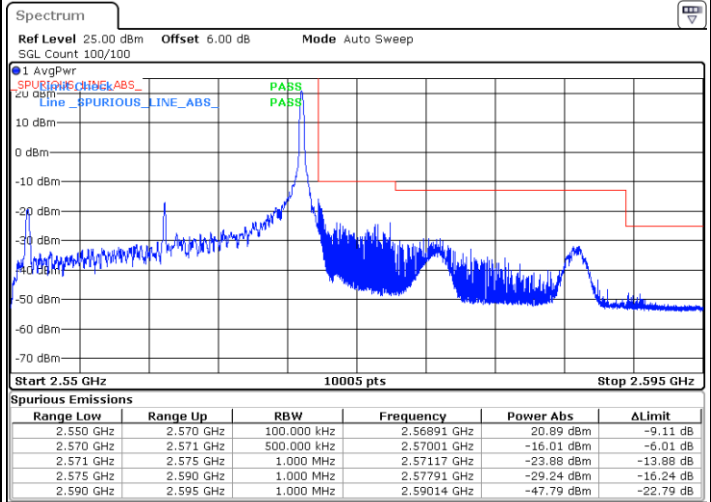
LTE Band 7 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



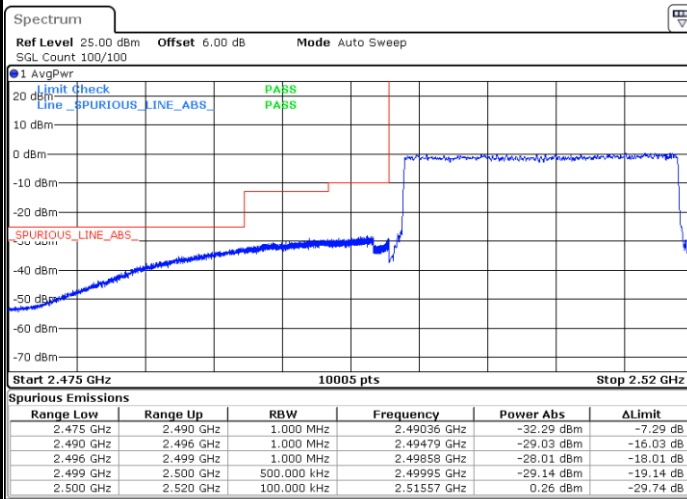
Date: 12.OCT.2022 22:09:02

Highest Band Edge / 1 RB



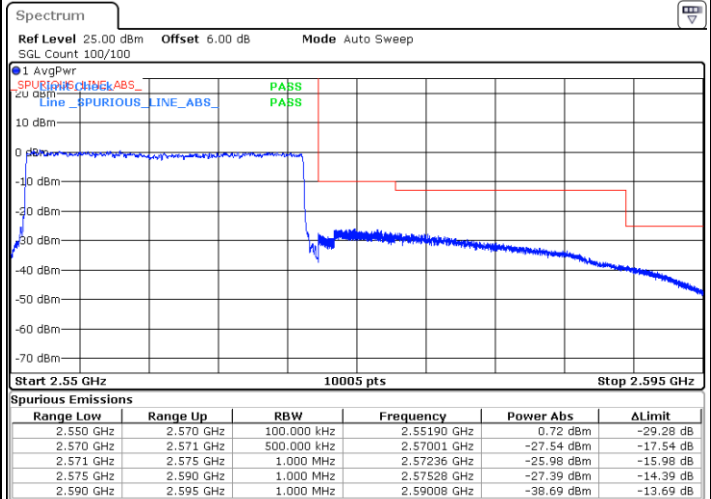
Date: 12.OCT.2022 22:29:29

Lowest Band Edge / Full RB



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

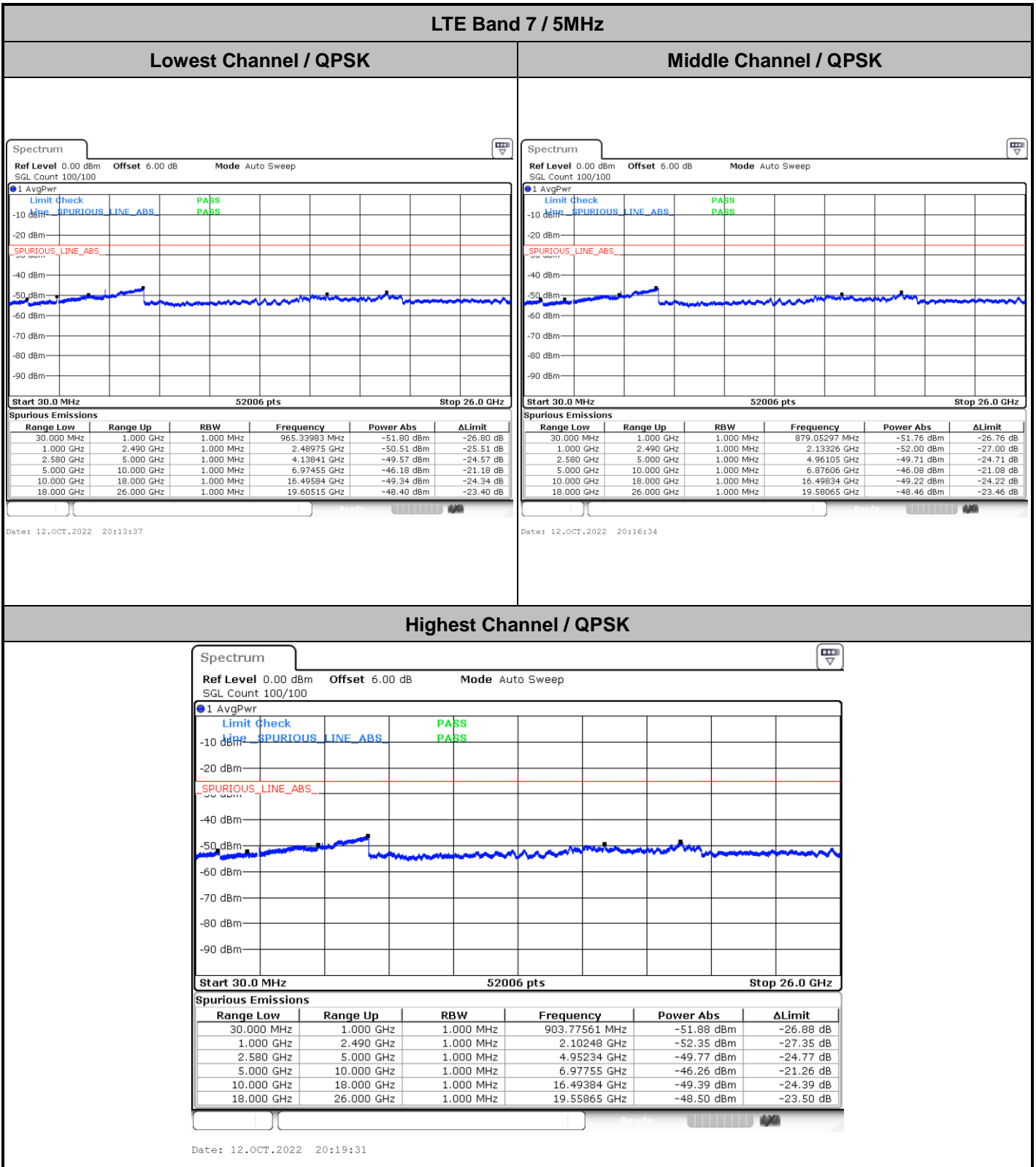
Highest Band Edge / Full RB



Date: 12.OCT.2022 22:36:48



# Conducted Spurious Emission

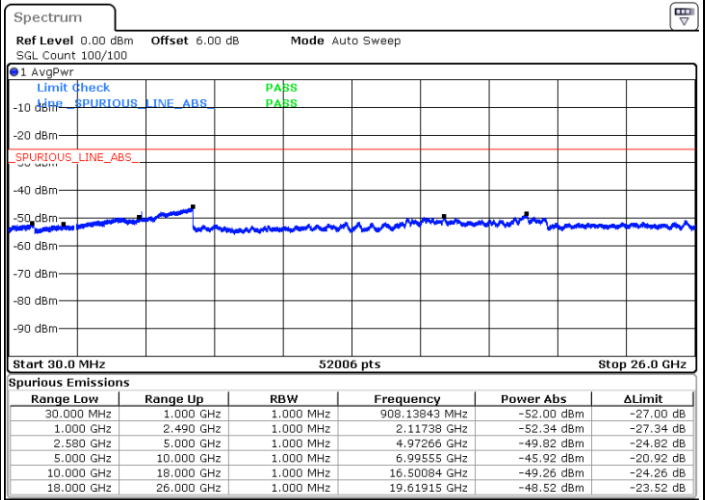
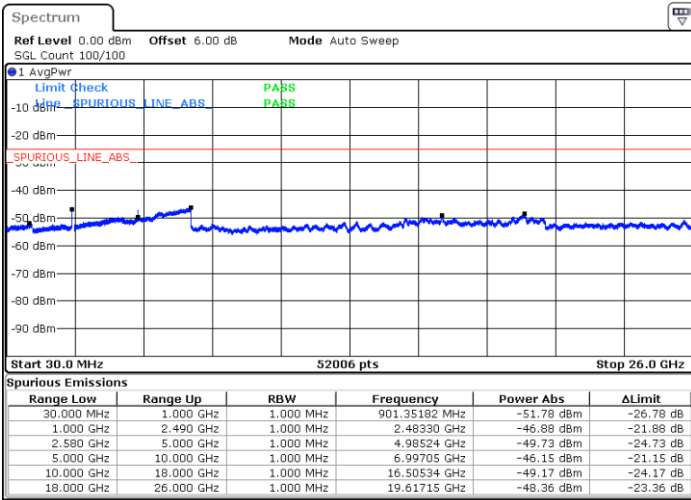




LTE Band 7 / 10MHz

Lowest Channel / QPSK

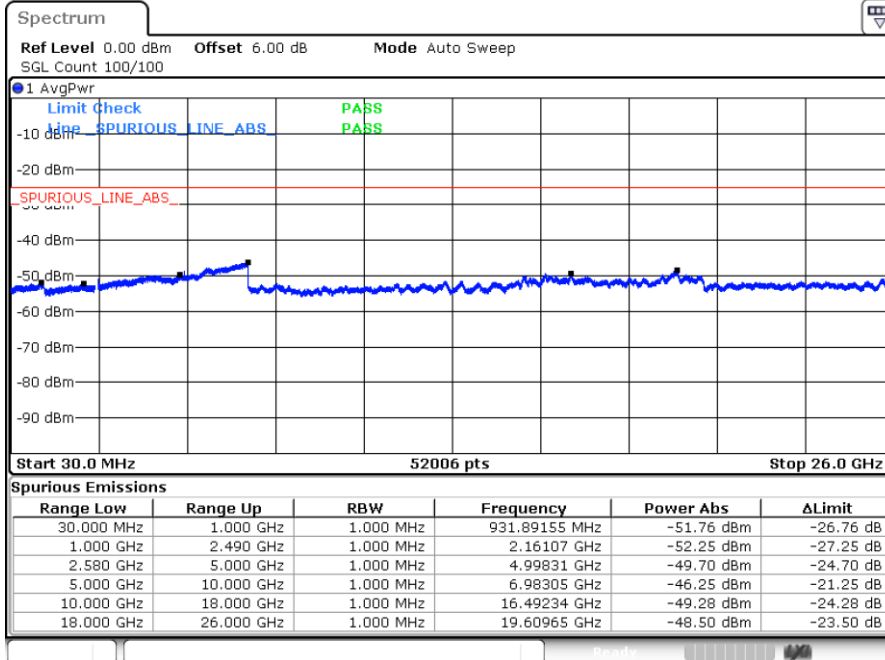
Middle Channel / QPSK



Date: 12.OCT.2022 20:22:28

Date: 12.OCT.2022 20:25:23

Highest Channel / QPSK



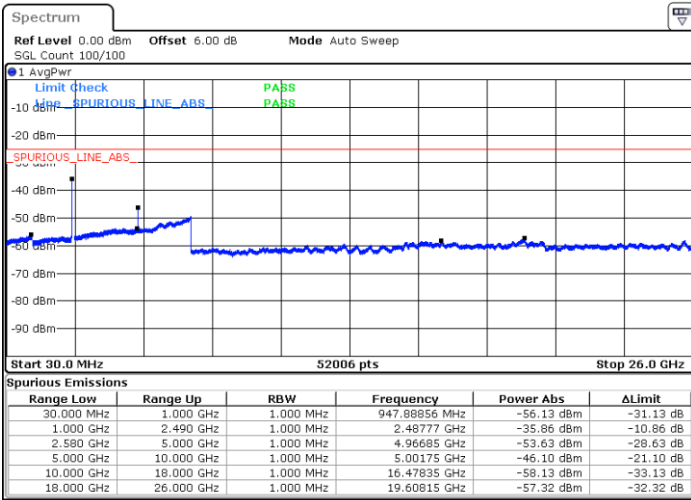
Date: 12.OCT.2022 20:28:18



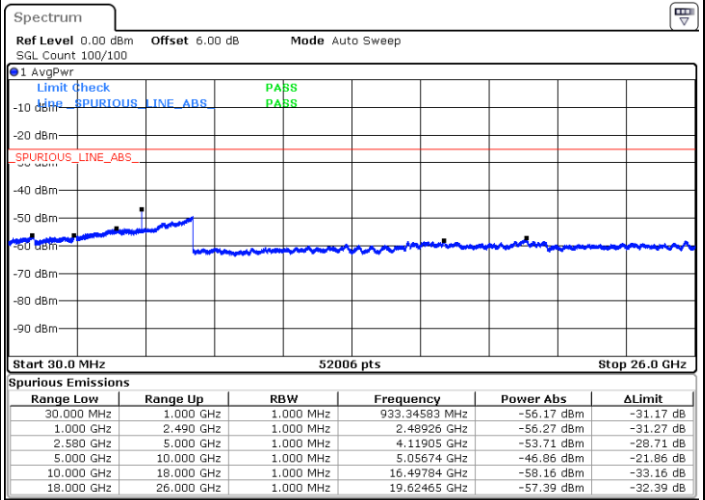
LTE Band 7 / 15MHz

Lowest Channel / QPSK

Middle Channel / QPSK

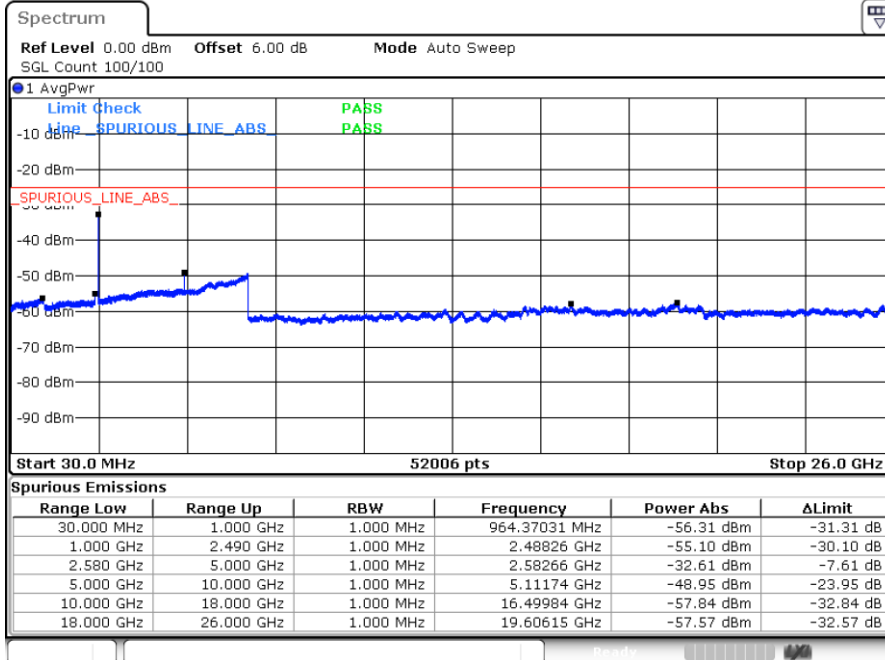


Date: 12.OCT.2022 21:33:23



Date: 12.OCT.2022 21:43:37

Highest Channel / QPSK



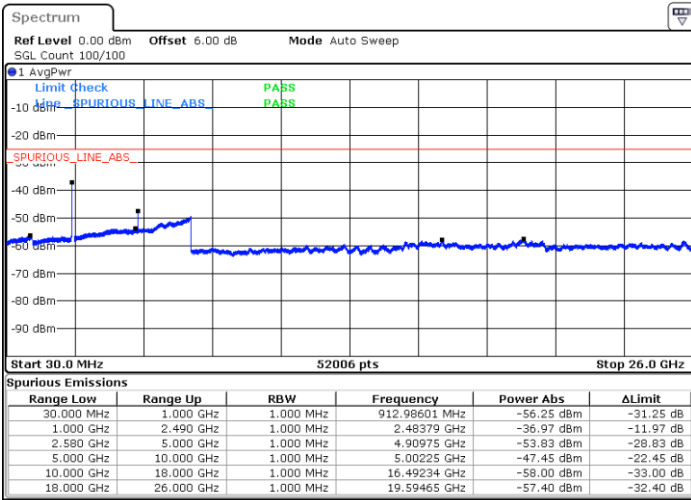
Date: 12.OCT.2022 21:46:33



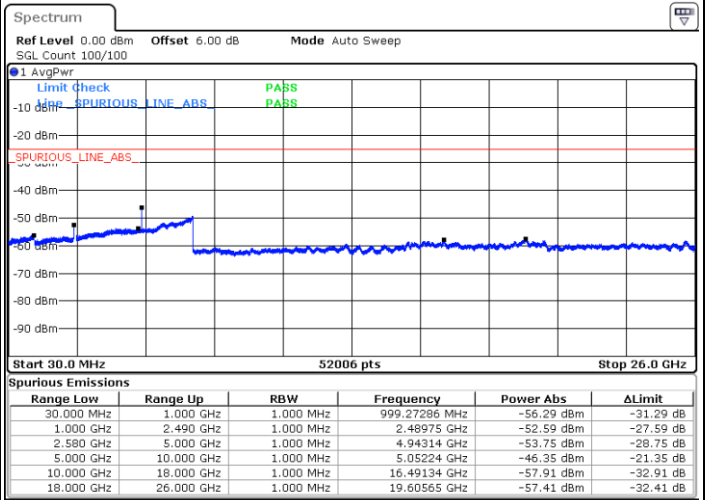
LTE Band 7 / 20MHz

Lowest Channel / QPSK

Middle Channel / QPSK

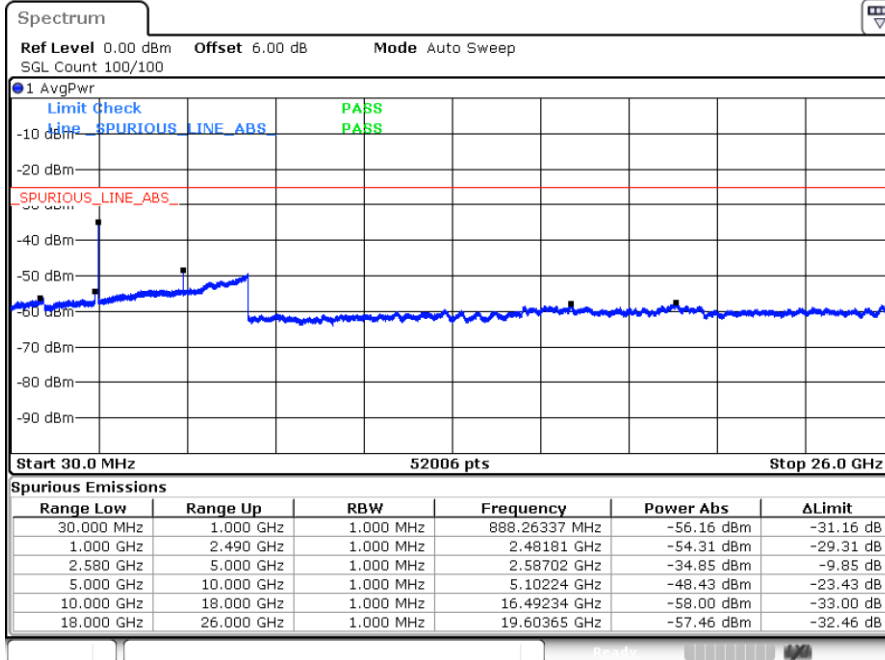


Date: 12.OCT.2022 22:04:09



Date: 12.OCT.2022 22:21:38

Highest Channel / QPSK



Date: 12.OCT.2022 22:24:35



Frequency Stability

Test Conditions		LTE Band 7 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0016	PASS
40	Normal Voltage	0.0011	
30	Normal Voltage	0.0009	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0006	
0	Normal Voltage	0.0013	
-10	Normal Voltage	0.0021	
-20	Normal Voltage	0.0019	
-30	Normal Voltage	0.0023	
20	Maximum Voltage	0.0012	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0017	

Note:

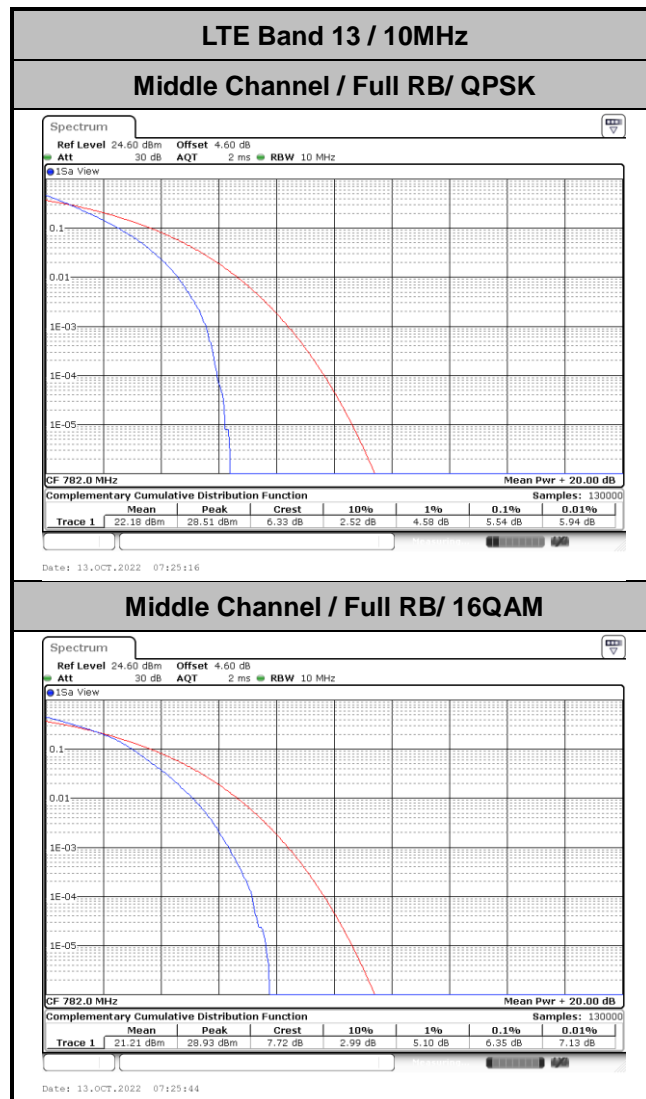
1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



# LTE Band 13

## Peak-to-Average Ratio

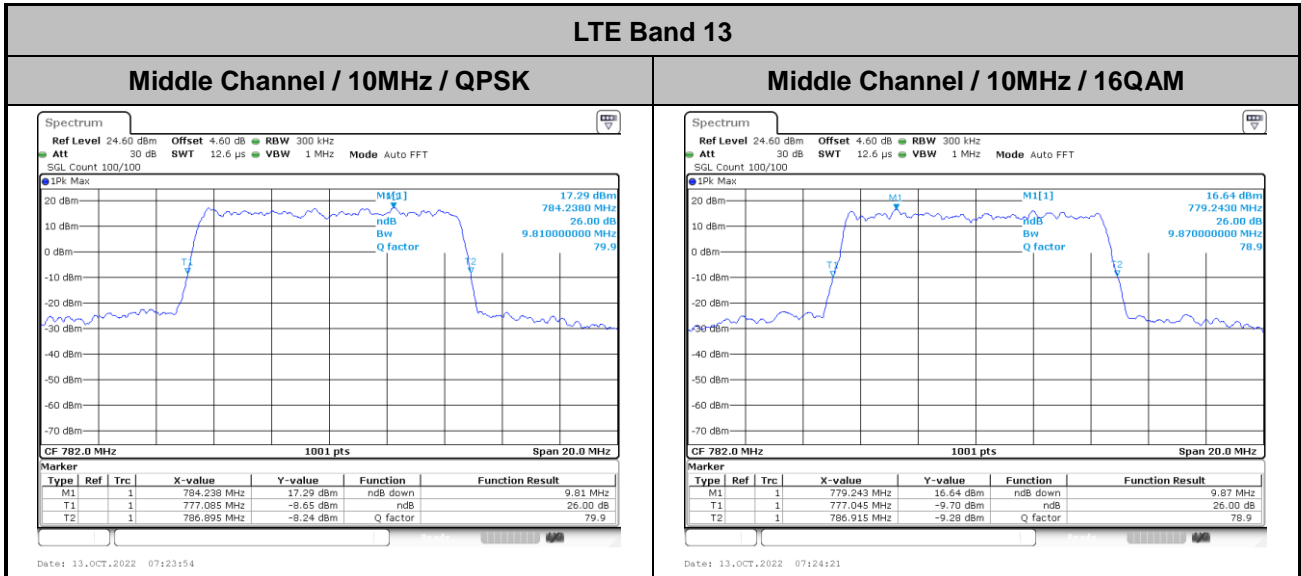
Mode	LTE Band 13 / 10MHz		
Mod.	QPSK	16QAM	Limit: 13dB
RB Size	Full RB	Full RB	Result
Middle CH	5.54	6.35	PASS





## 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>	9.81	9.87

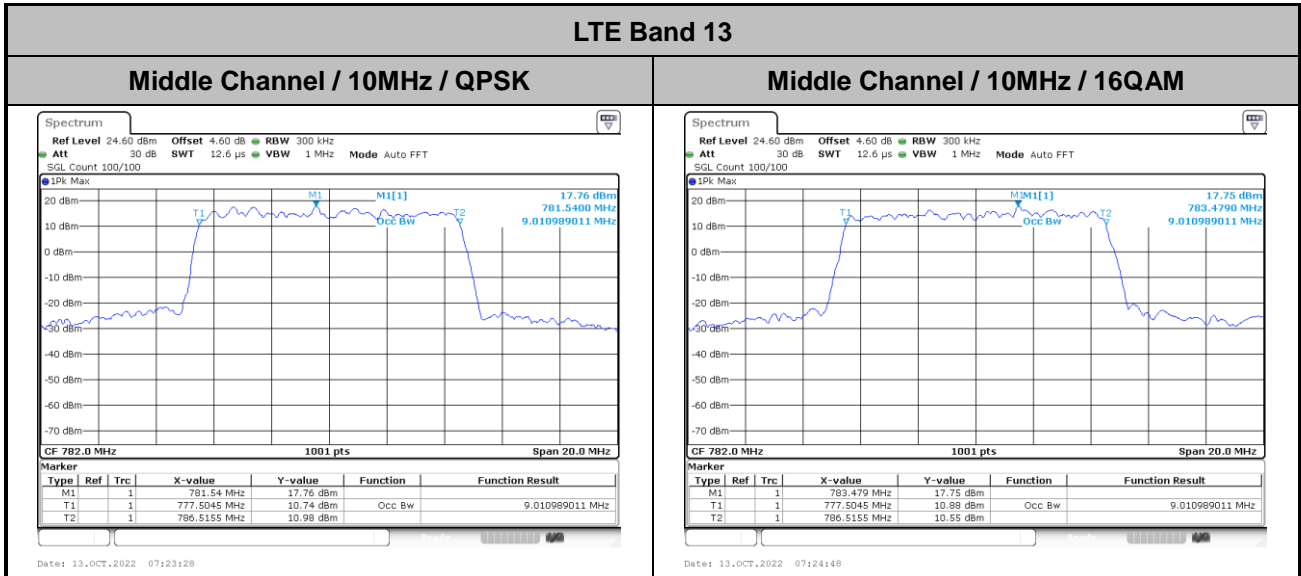






# Occupied Bandwidth

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



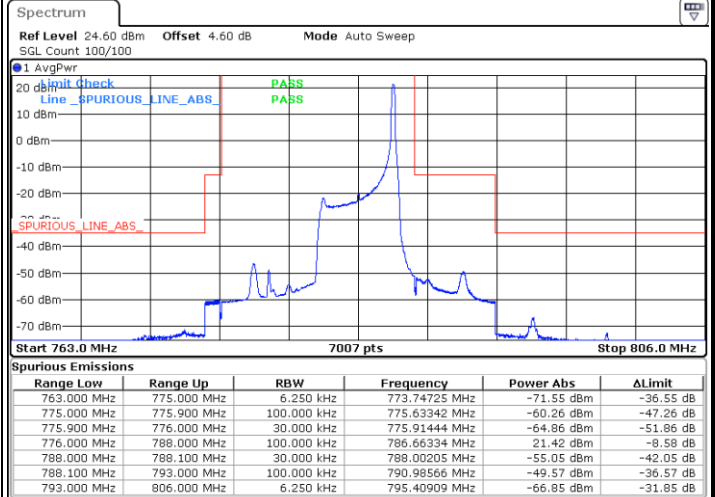
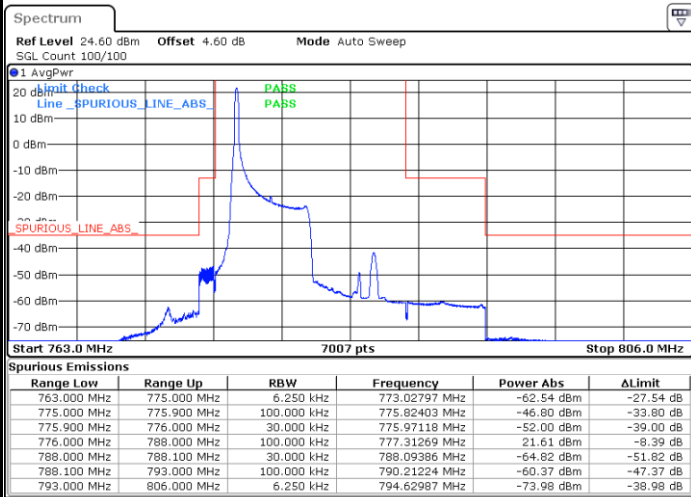


# Conducted Band Edge

## LTE Band 13 / 5MHz / QPSK

### Lowest Band Edge / 1 RB

### Highest Band Edge / 1 RB

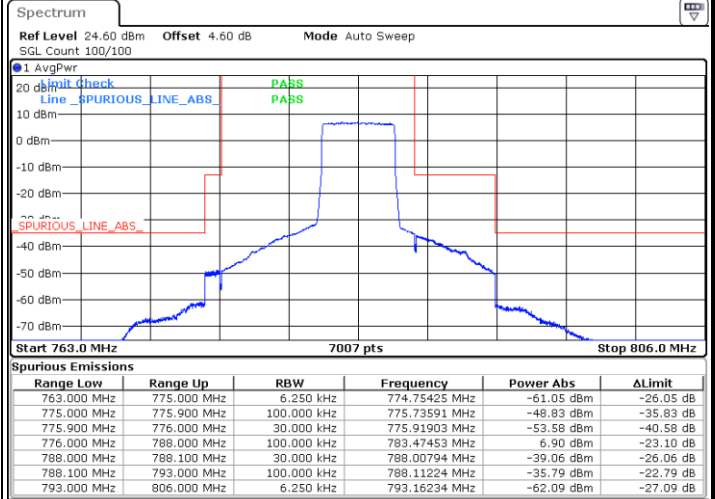
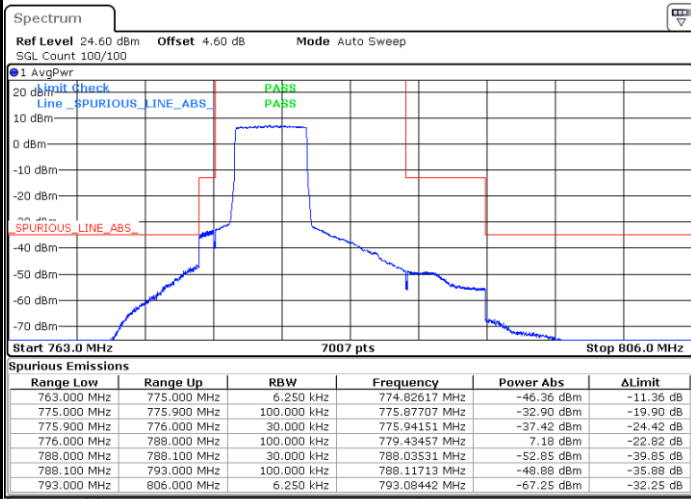


Date: 13.OCT.2022 06:24:30

Date: 13.OCT.2022 06:42:00

### Lowest Band Edge / Full RB

### Highest Band Edge / Full RB



Date: 13.OCT.2022 06:34:10

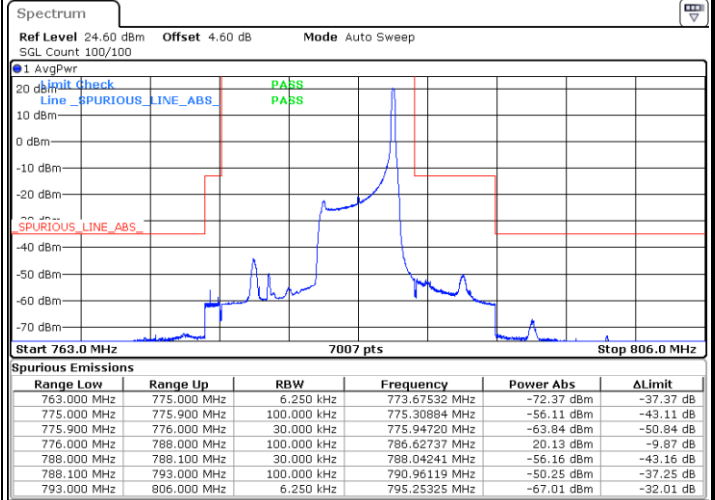
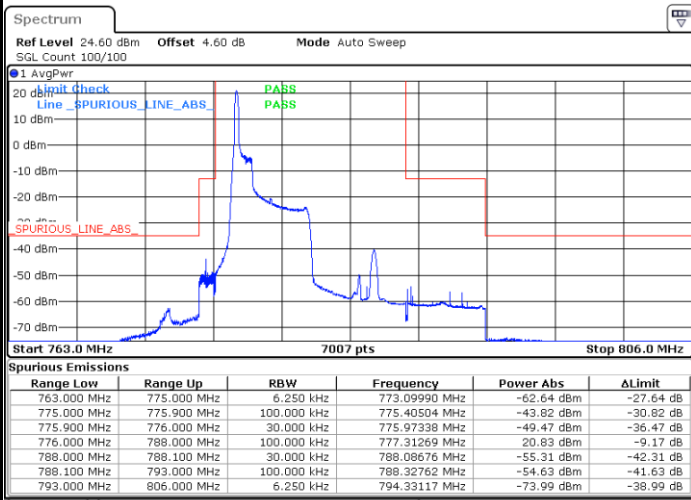
Date: 13.OCT.2022 06:51:40



LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1RB

Highest Band Edge / 1 RB

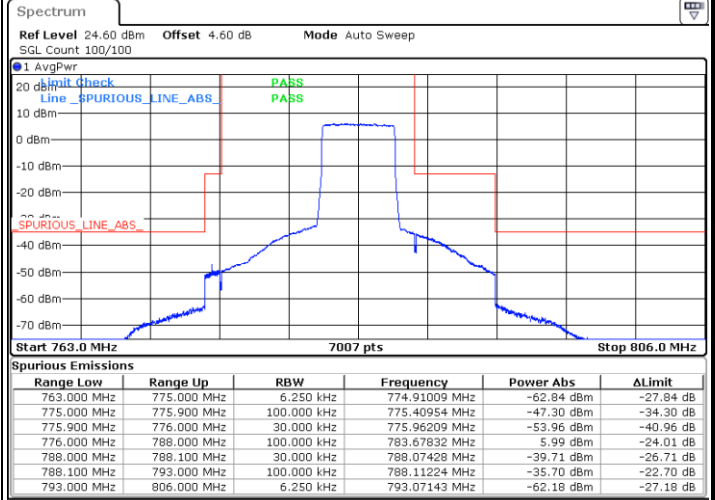
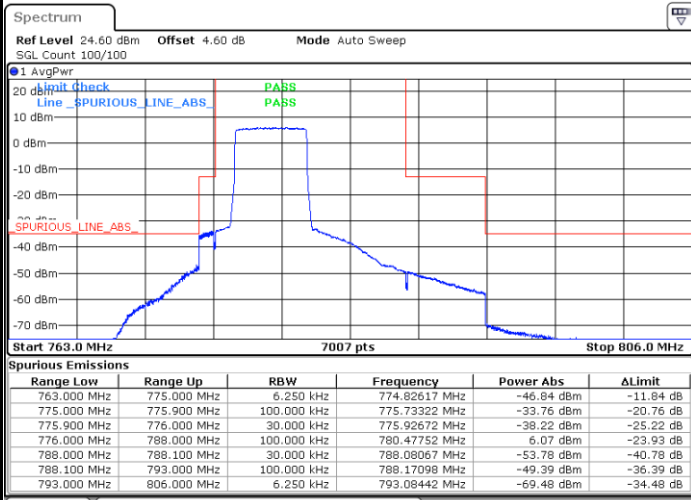


Date: 13.OCT.2022 06:26:26

Date: 13.OCT.2022 06:43:56

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



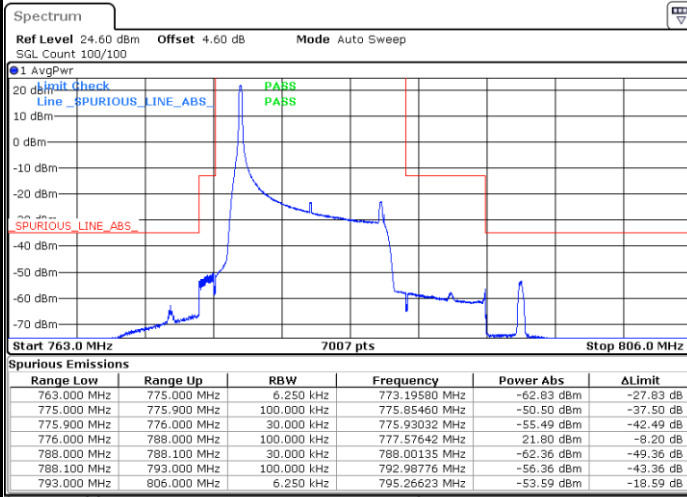
Date: 13.OCT.2022 06:32:14

Date: 13.OCT.2022 06:49:44



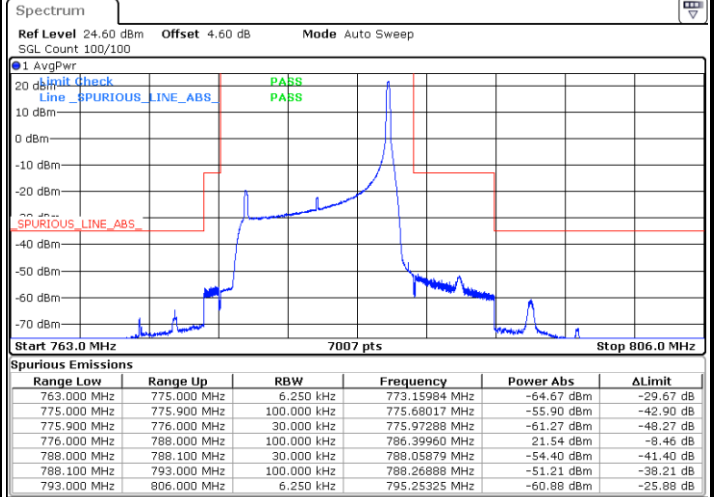
LTE Band 13 / 10MHz / QPSK

middle Band Edge / 1 RB



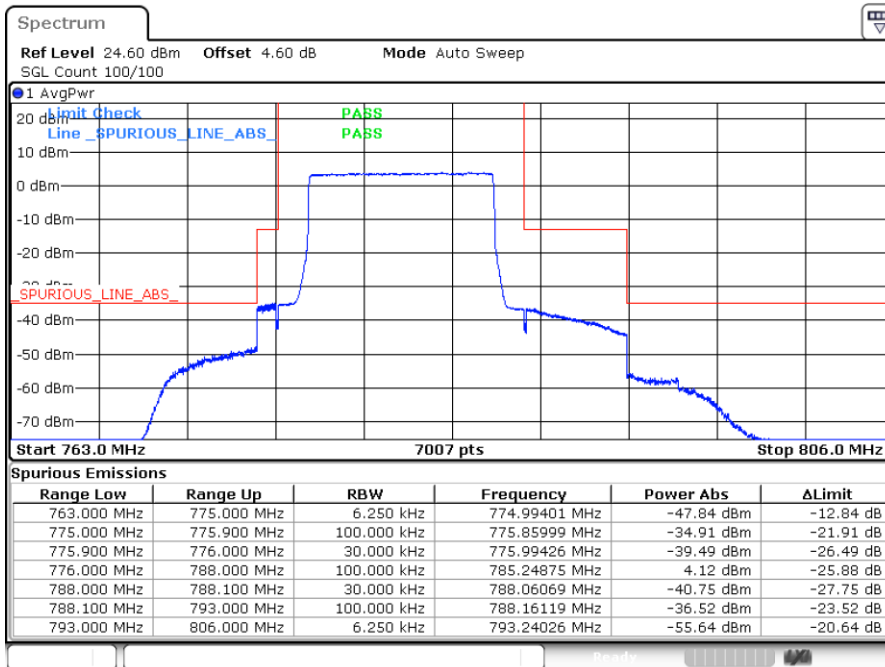
Date: 13.OCT.2022 06:56:33

middle Band Edge / 1 RB



Date: 13.OCT.2022 07:19:11

Middle Band Edge / Full RB

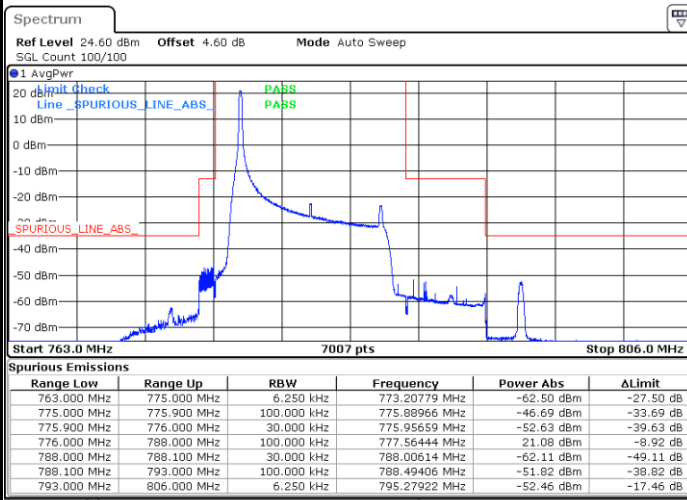


Date: 13.OCT.2022 07:17:16



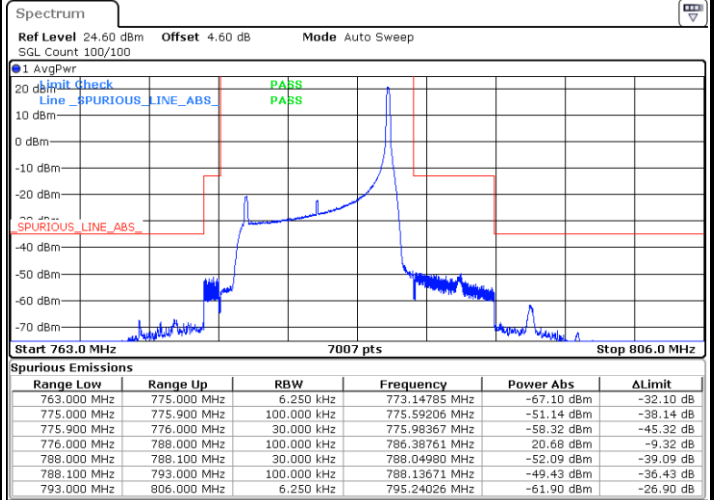
LTE Band 13 / 10MHz / 16QAM

middle Band Edge / 1 RB



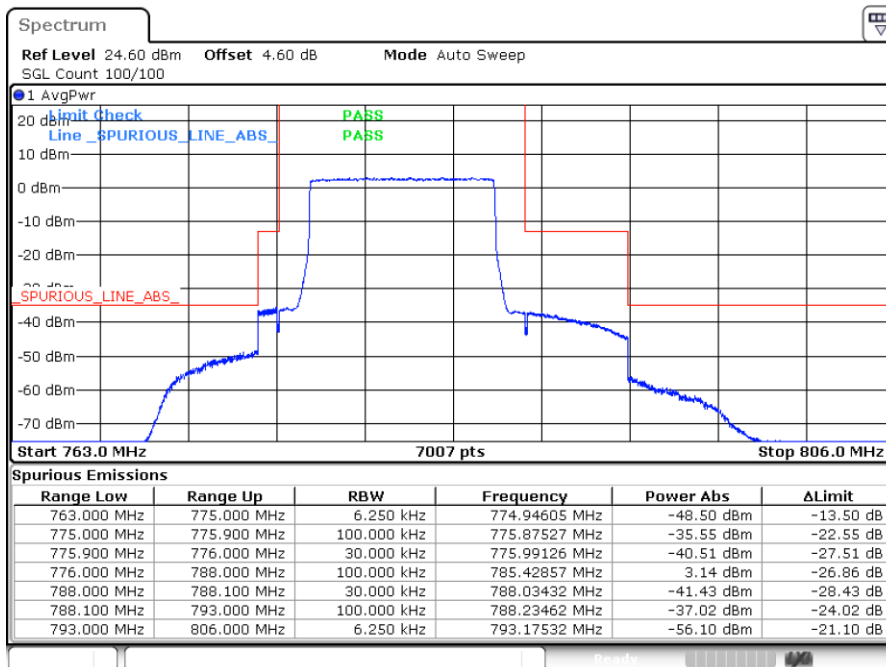
Date: 13.OCT.2022 07:09:37

middle Band Edge / 1 RB



Date: 13.OCT.2022 07:21:06

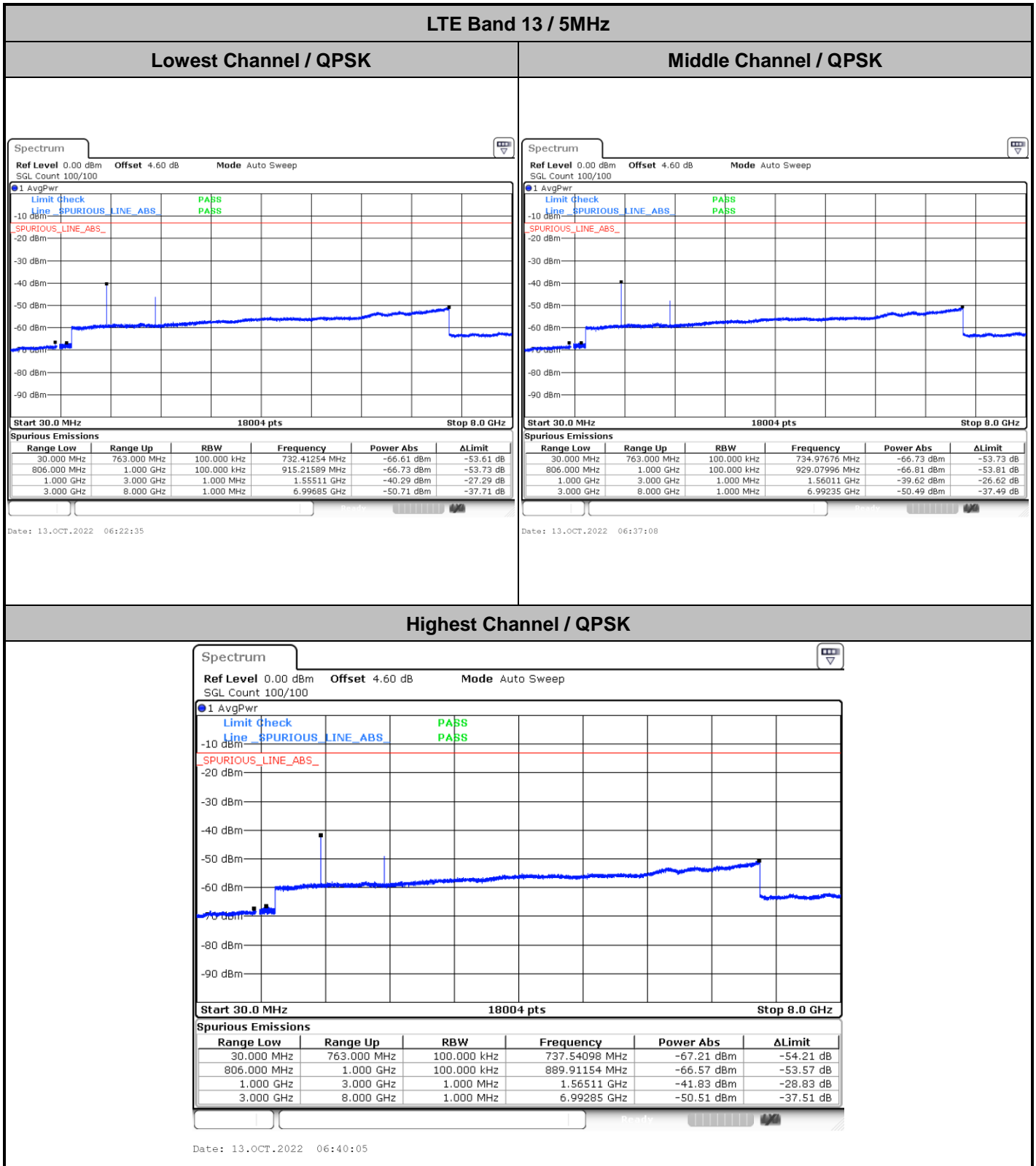
middle Band Edge / Full RB



Date: 13.OCT.2022 07:15:21



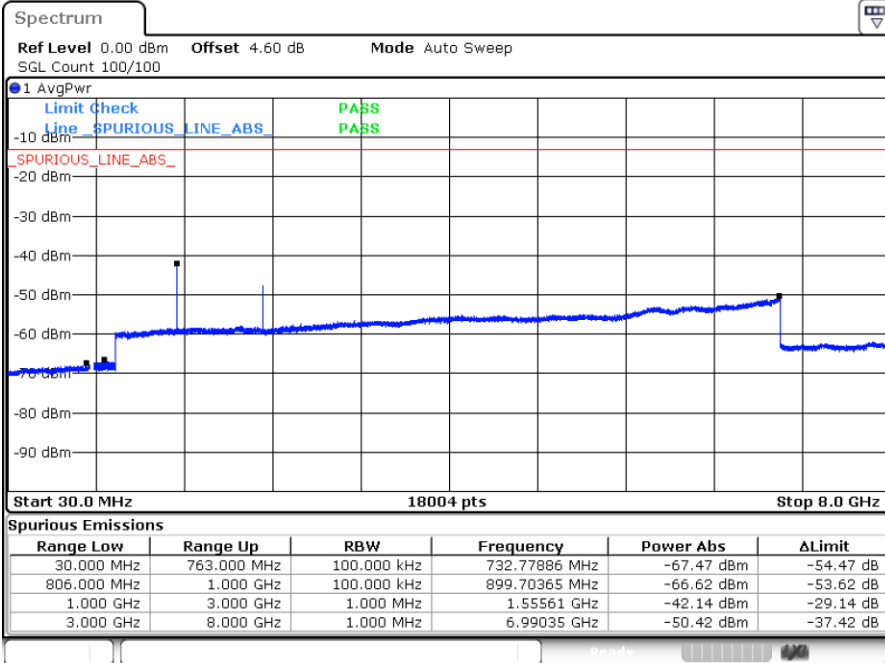
# Conducted Spurious Emission





LTE Band 13 / 10MHz

Middle Channel / QPSK



Date: 13.OCT.2022 06:54:38



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	0.0025	PASS
40	Normal Voltage	0.0017	
30	Normal Voltage	0.0006	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0015	
0	Normal Voltage	0.0024	
-10	Normal Voltage	0.0031	
-20	Normal Voltage	0.0029	
-30	Normal Voltage	0.0023	
20	Maximum Voltage	0.0011	
20	Normal Voltage	0.0000	
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.

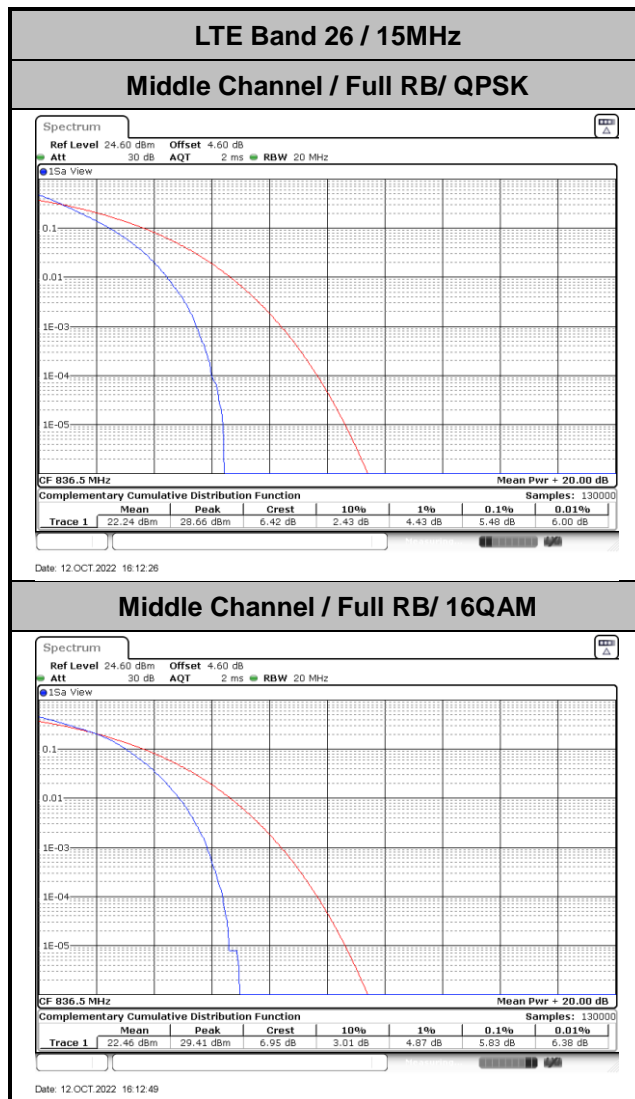




# LTE Band 26

## Peak-to-Average Ratio

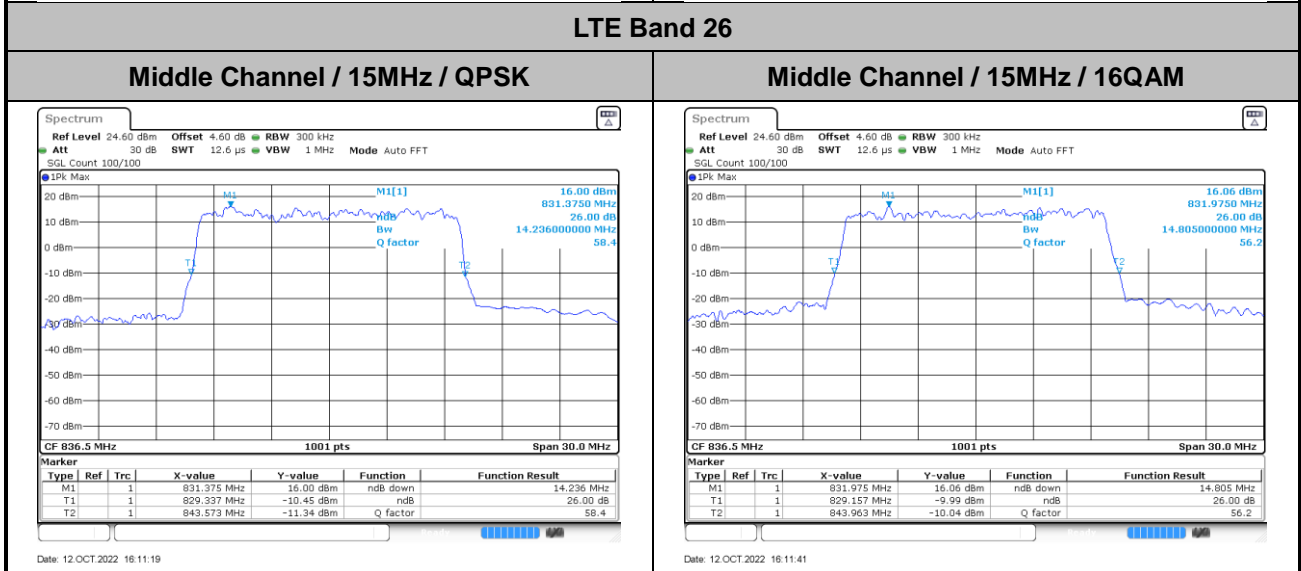
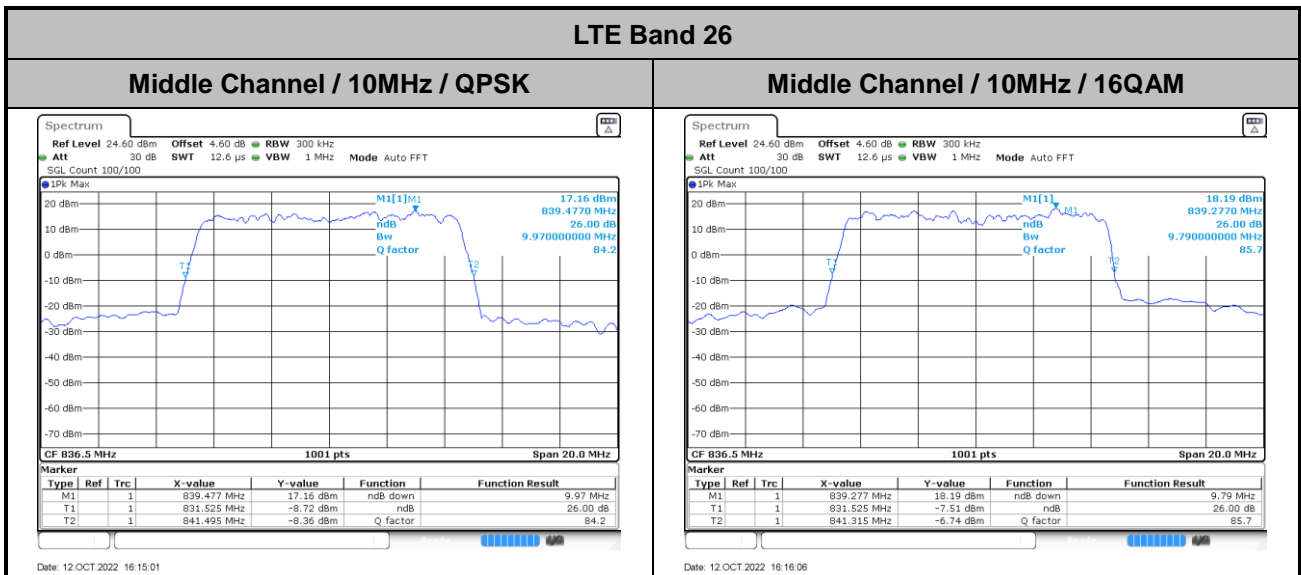
Mode	LTE Band 26 / 15MHz		
Mod.	QPSK	16QAM	Limit: 13dB
RB Size	Full RB	Full RB	Result
Middle CH	5.48	5.83	PASS





**26dB Bandwidth**

Mode		LTE Band 26 : 26dB BW(MHz)	
<b>BW</b>		<b>10MHz</b>	
<b>Mod.</b>		<b>QPSK</b>	<b>16QAM</b>
<b>Middle CH</b>		<b>9.97</b>	<b>9.79</b>
<b>BW</b>		<b>15MHz</b>	
<b>Mod.</b>		<b>QPSK</b>	<b>16QAM</b>
<b>Middle CH</b>		<b>14.24</b>	<b>14.81</b>





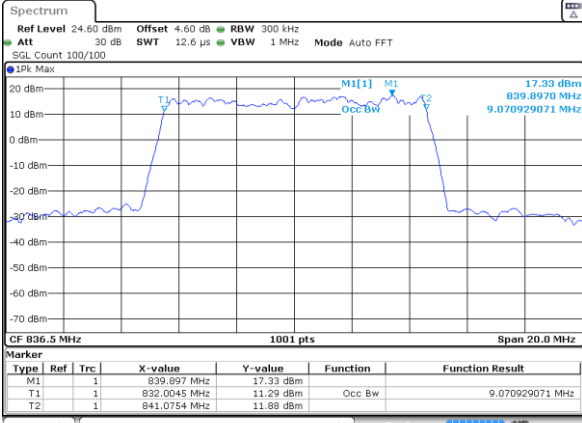
### Occupied Bandwidth

Mode	LTE Band 26 : 99%OBW(MHz)	
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.07	8.99
BW	15MHz	
Mod.	QPSK	16QAM
Middle CH	13.55	13.40
BW	15MHz	
Mod.	QPSK	16QAM
CH 26790	13.43	13.49



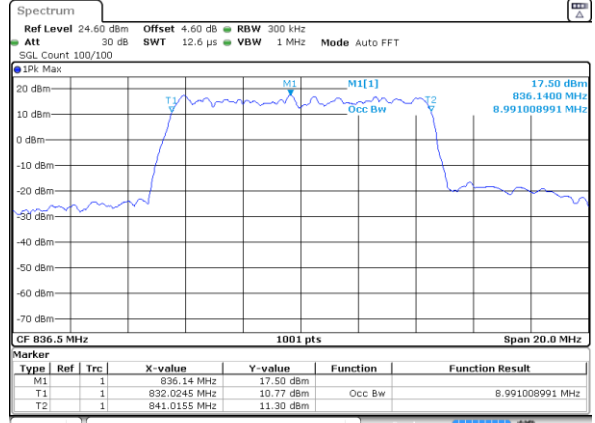
LTE Band 26

Middle Channel / 10MHz / QPSK



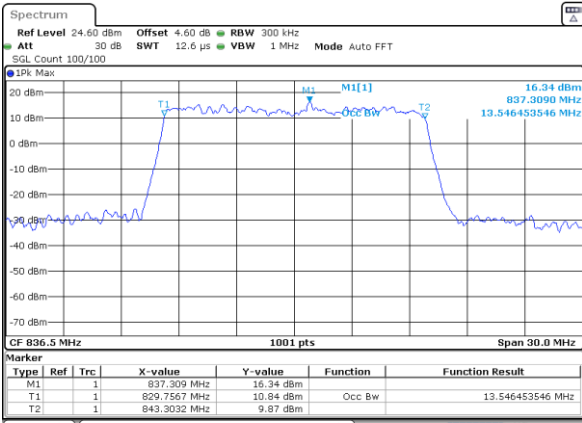
Date: 12.OCT.2022 16:15:23

Middle Channel / 10MHz / 16QAM



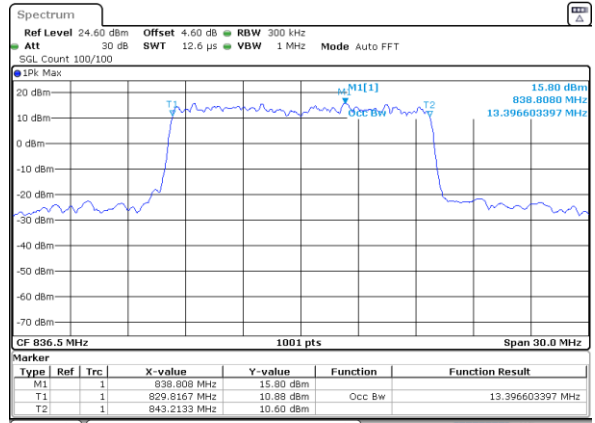
Date: 12.OCT.2022 16:15:44

Middle Channel / 15MHz / QPSK



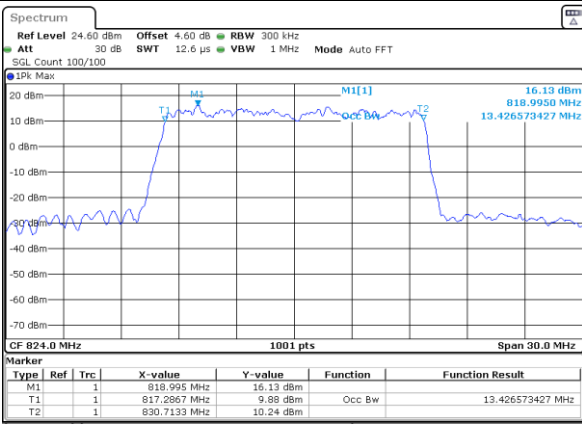
Date: 12.OCT.2022 16:10:58

Middle Channel / 15MHz / 16QAM



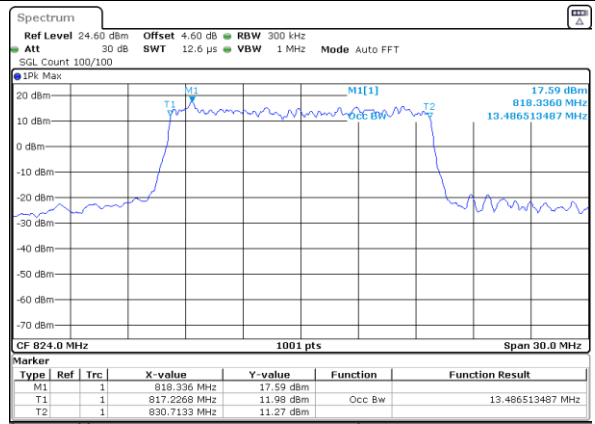
Date: 12.OCT.2022 16:12:03

Channel 26790 / 15MHz / QPSK



Date: 12.OCT.2022 16:32:54

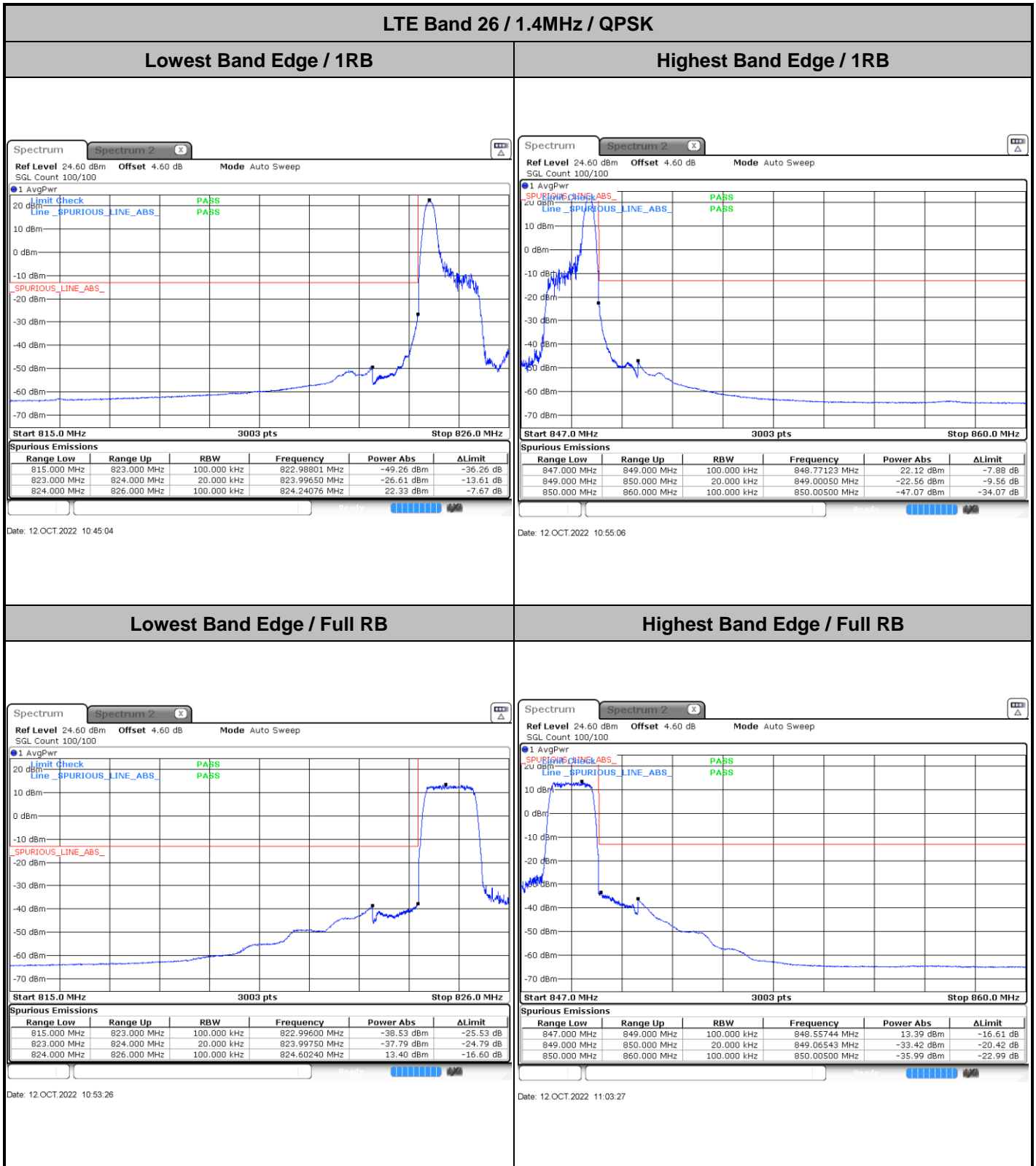
Channel 26790 / 15MHz / 16QAM



Date: 12.OCT.2022 16:34:00



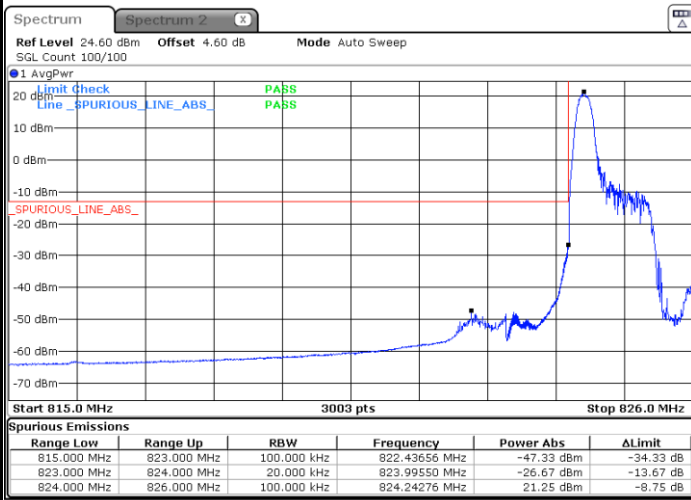
# Conducted Band Edge





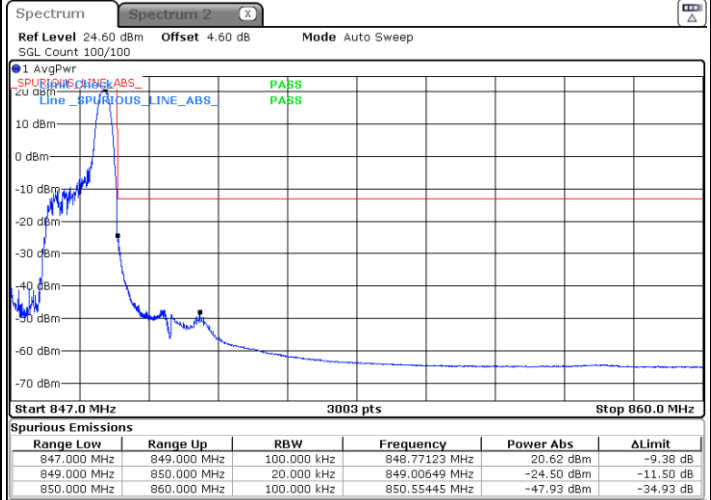
LTE Band 26 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



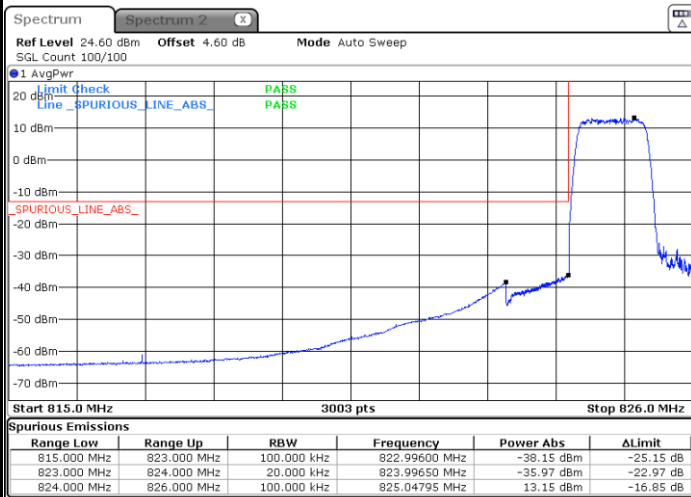
Date: 12.OCT.2022 10:46:44

Highest Band Edge / 1 RB



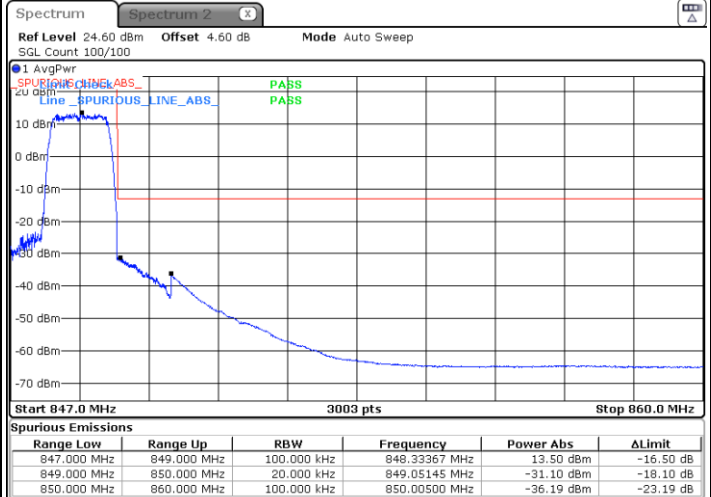
Date: 12.OCT.2022 10:56:46

Lowest Band Edge / Full RB



Date: 12.OCT.2022 10:51:46

Highest Band Edge / Full RB

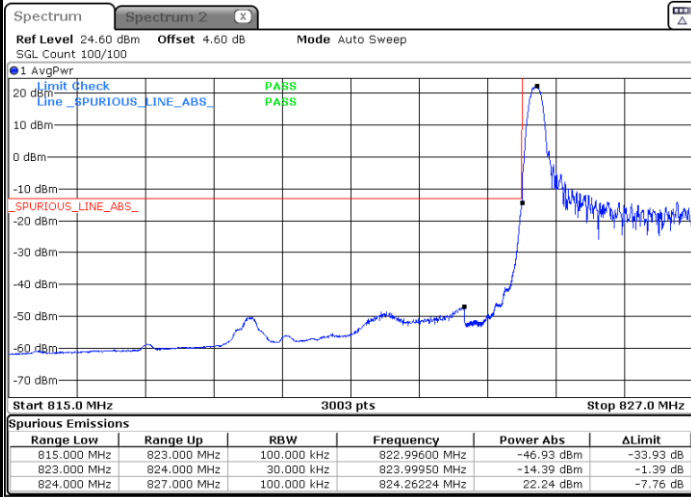


Date: 12.OCT.2022 11:01:47



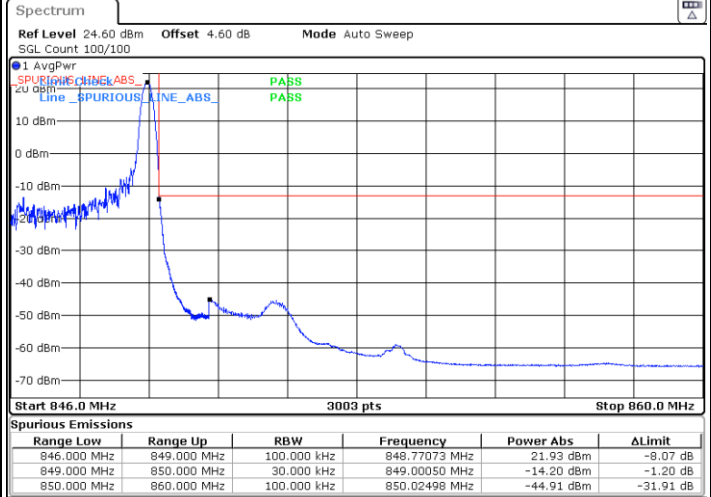
LTE Band 26 / 3MHz / QPSK

Lowest Band Edge / 1RB



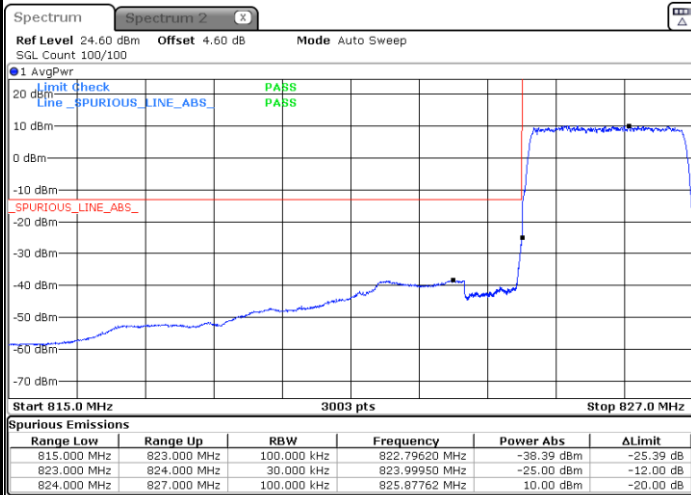
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Highest Band Edge / 1 RB



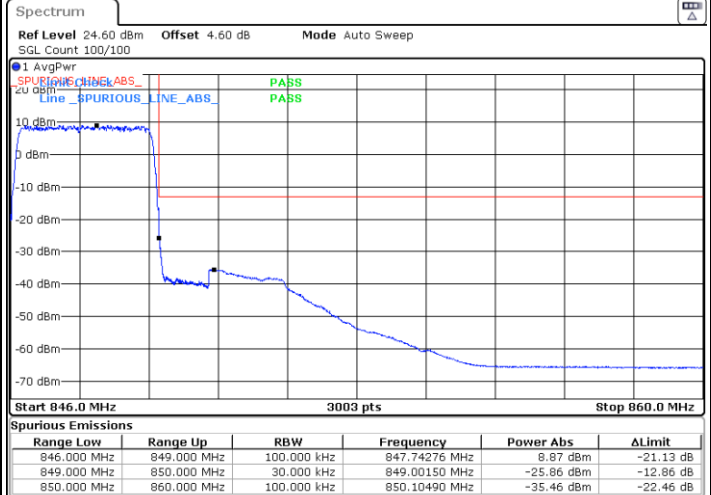
Date: 12.OCT.2022 12:07:29

Lowest Band Edge / Full RB



Date: 12.OCT.2022 11:53:49

Highest Band Edge / Full RB



Date: 12.OCT.2022 12:17:51