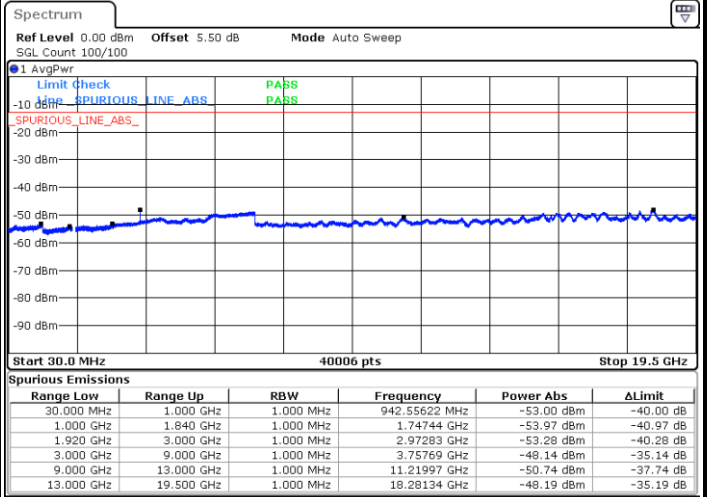
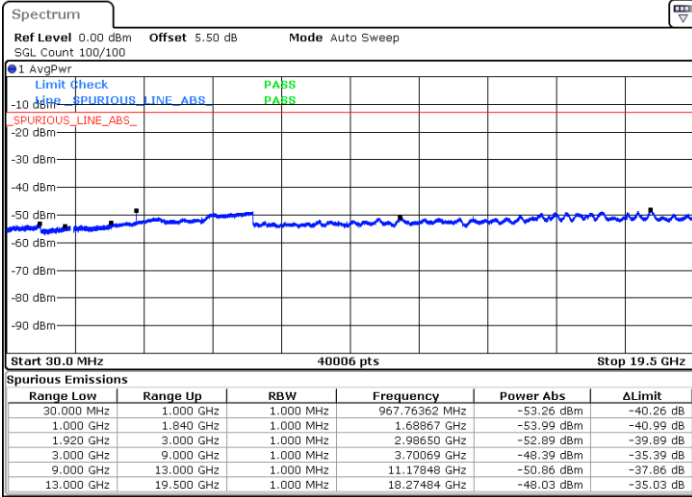




LTE Band 2 / 3MHz

Lowest Channel / QPSK

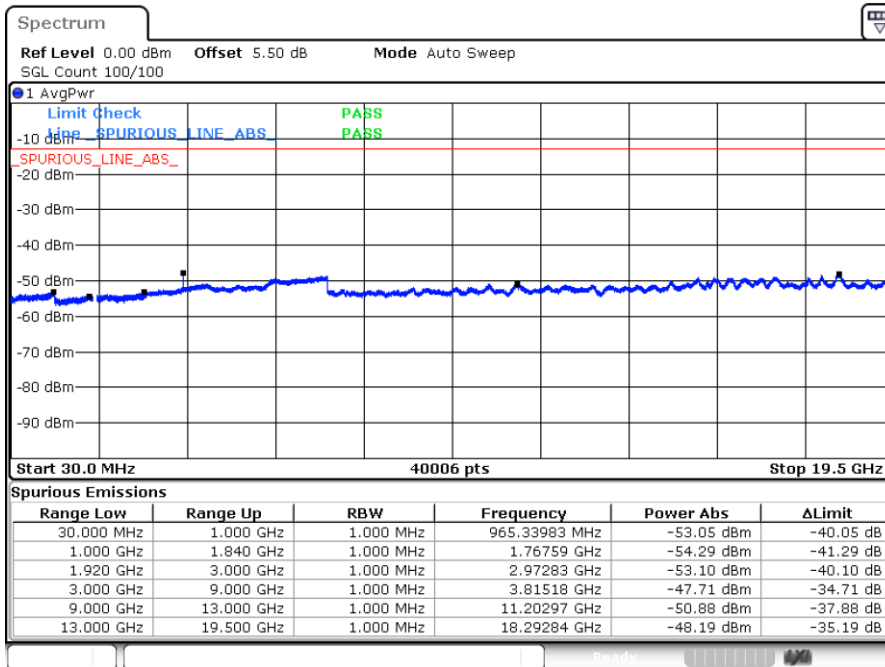
Middle Channel / QPSK



Date: 26.AUG.2022 23:28:53

Date: 26.AUG.2022 23:30:33

Highest Channel / QPSK



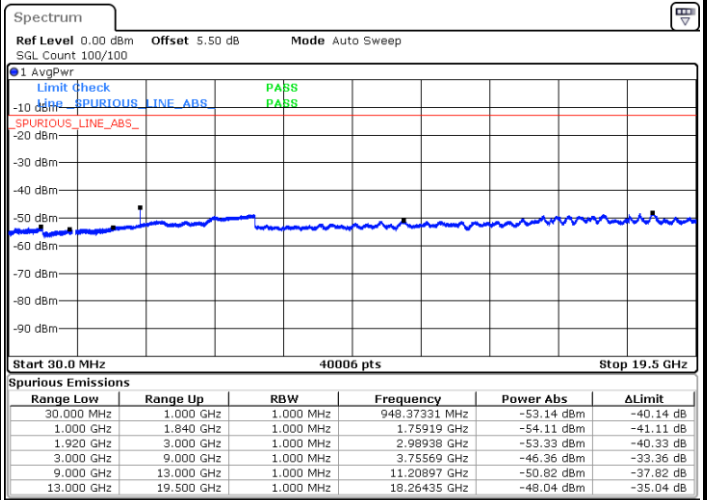
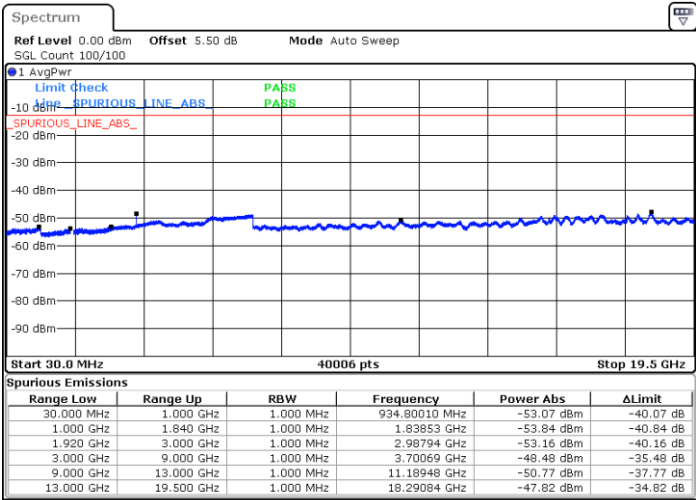
Date: 26.AUG.2022 23:32:06



LTE Band 2 / 5MHz

Lowest Channel / QPSK

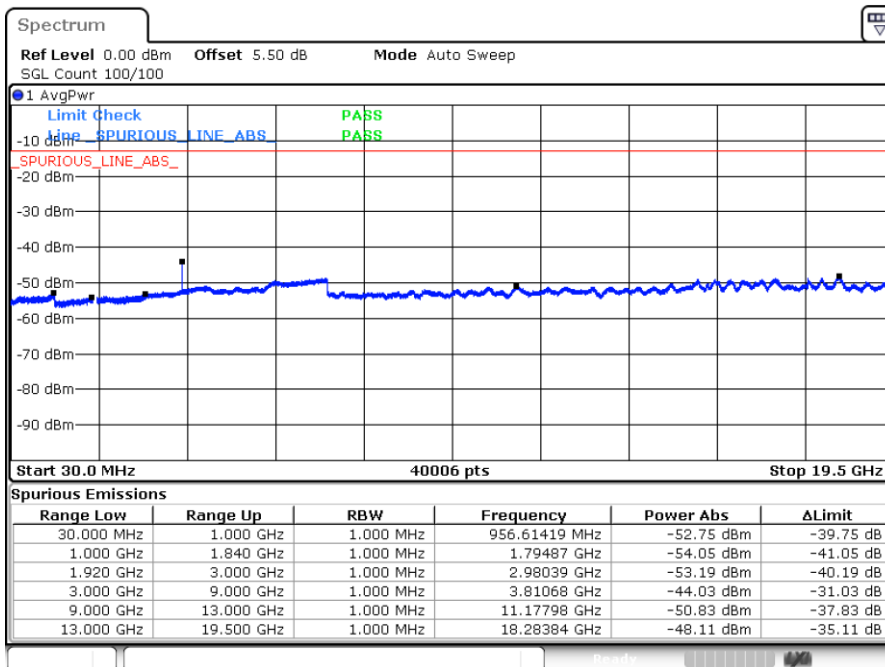
Middle Channel / QPSK



Date: 26.AUG.2022 23:44:38

Date: 26.AUG.2022 23:46:17

Highest Channel / QPSK



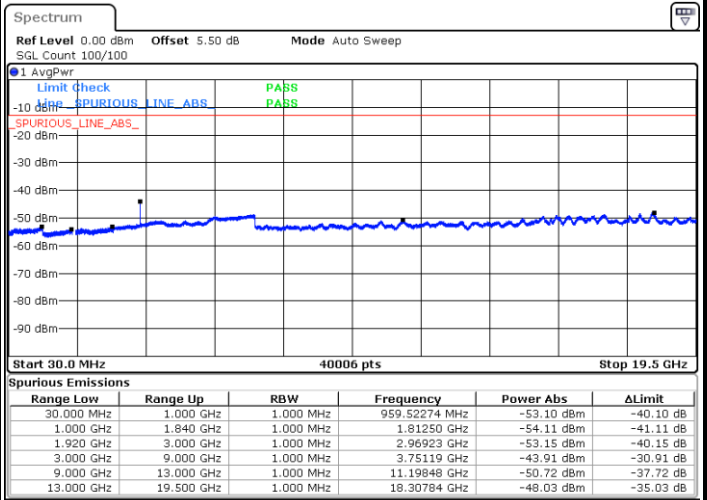
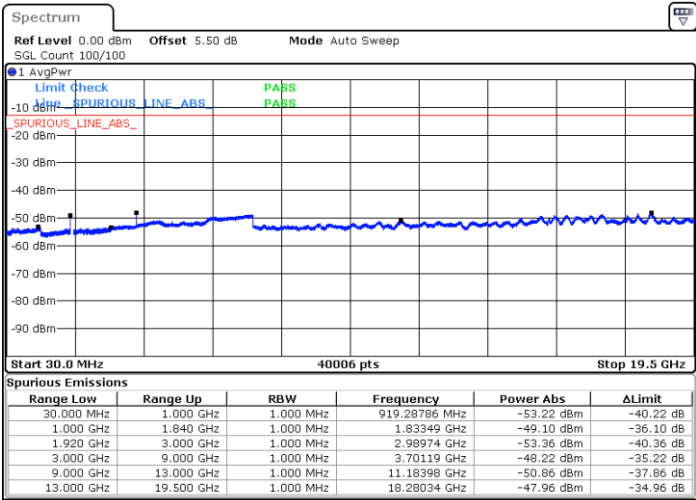
Date: 26.AUG.2022 23:48:08



LTE Band 2 / 10MHz

Lowest Channel / QPSK

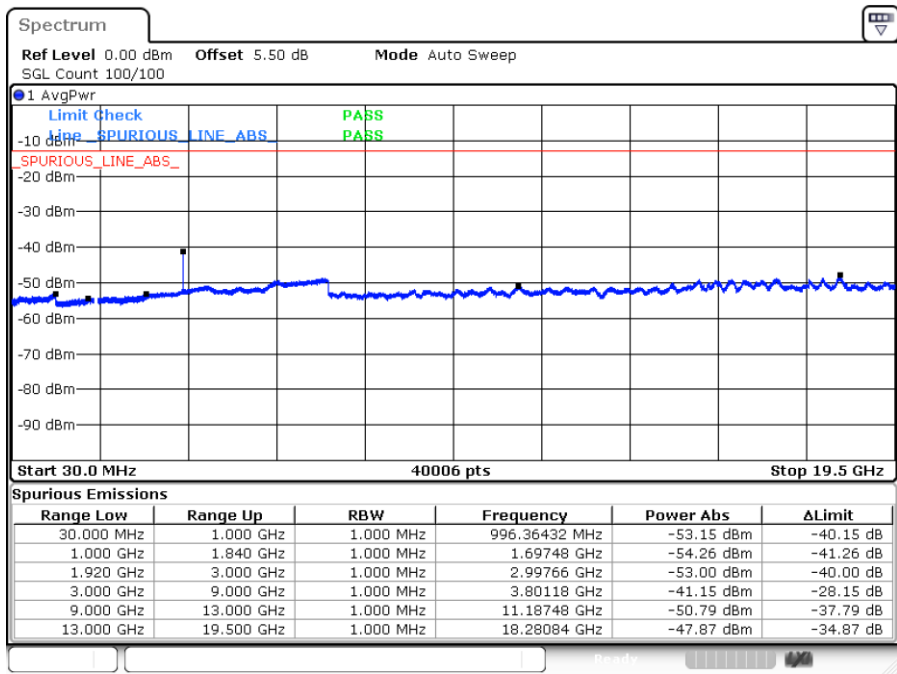
Middle Channel / QPSK



Date: 26.AUG.2022 23:57:05

Date: 26.AUG.2022 23:58:35

Highest Channel / QPSK



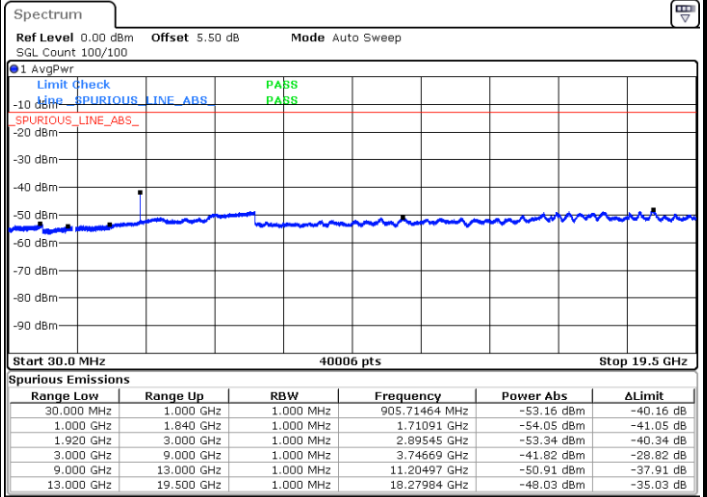
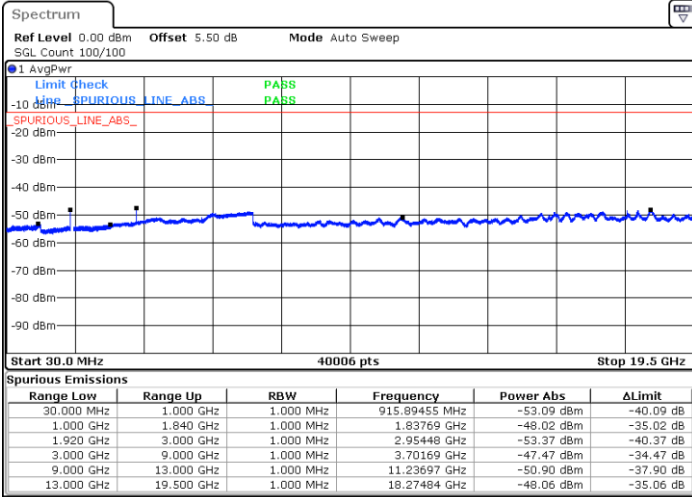
Date: 27.AUG.2022 00:00:15



LTE Band 2 / 15MHz

Lowest Channel / QPSK

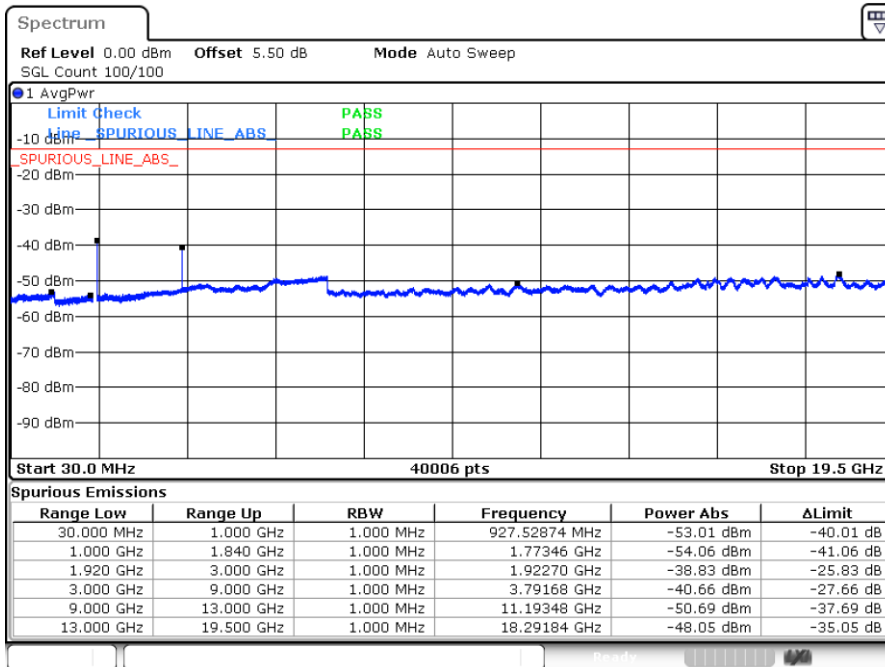
Middle Channel / QPSK



Date: 27.AUG.2022 00:56:39

Date: 27.AUG.2022 00:58:22

Highest Channel / QPSK



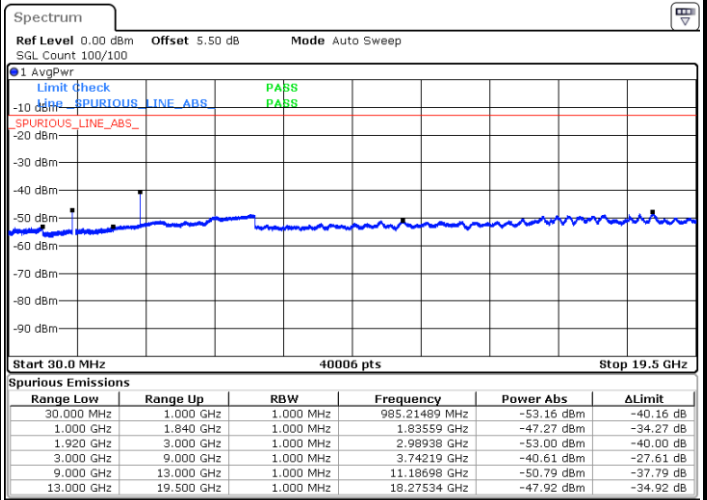
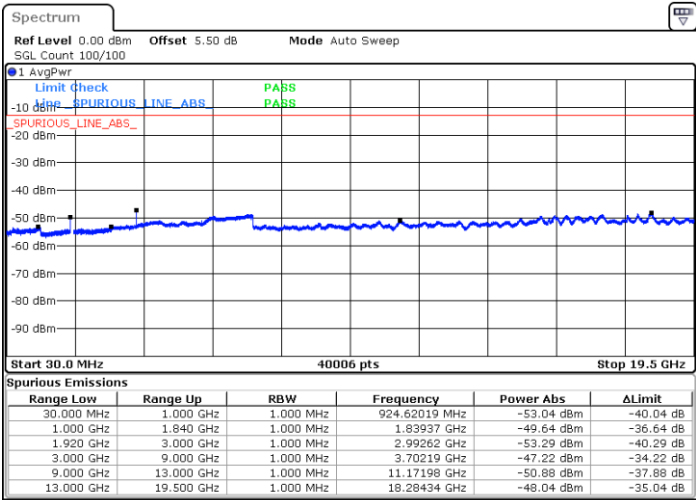
Date: 27.AUG.2022 00:59:51



LTE Band 2 / 20MHz

Lowest Channel / QPSK

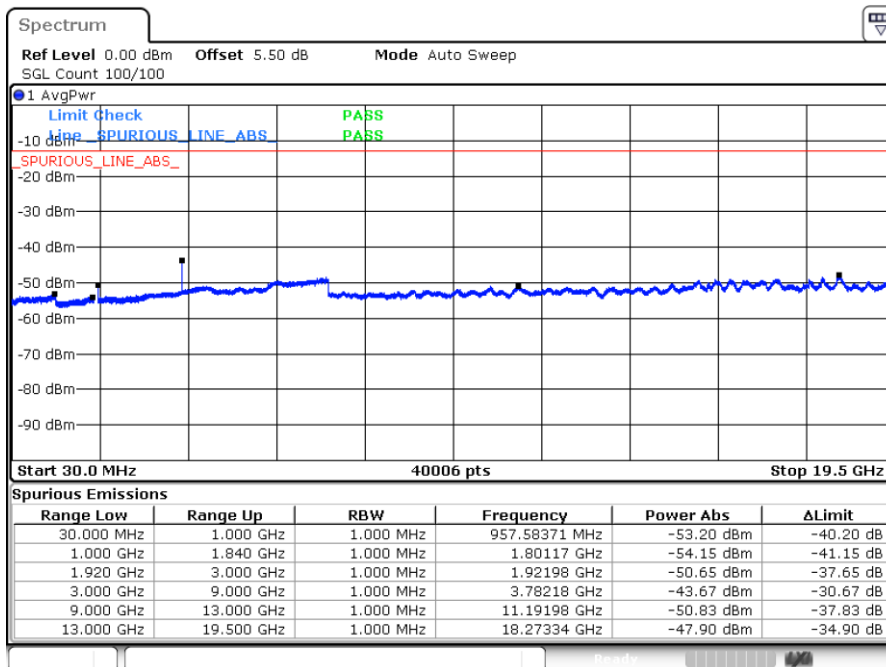
Middle Channel / QPSK



Date: 27.AUG.2022 01:11:16

Date: 27.AUG.2022 01:18:46

Highest Channel / QPSK



Date: 27.AUG.2022 01:25:15



Frequency Stability

Test Conditions		LTE Band 2 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0012	PASS
40	Normal Voltage	0.0003	
30	Normal Voltage	0.0004	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0010	
0	Normal Voltage	0.0011	
-10	Normal Voltage	0.0006	
-20	Normal Voltage	0.0020	
-30	Normal Voltage	0.0013	
20	Maximum Voltage	0.0021	
20	Normal Voltage	0.0020	
20	Battery End Point	0.0009	

Note:

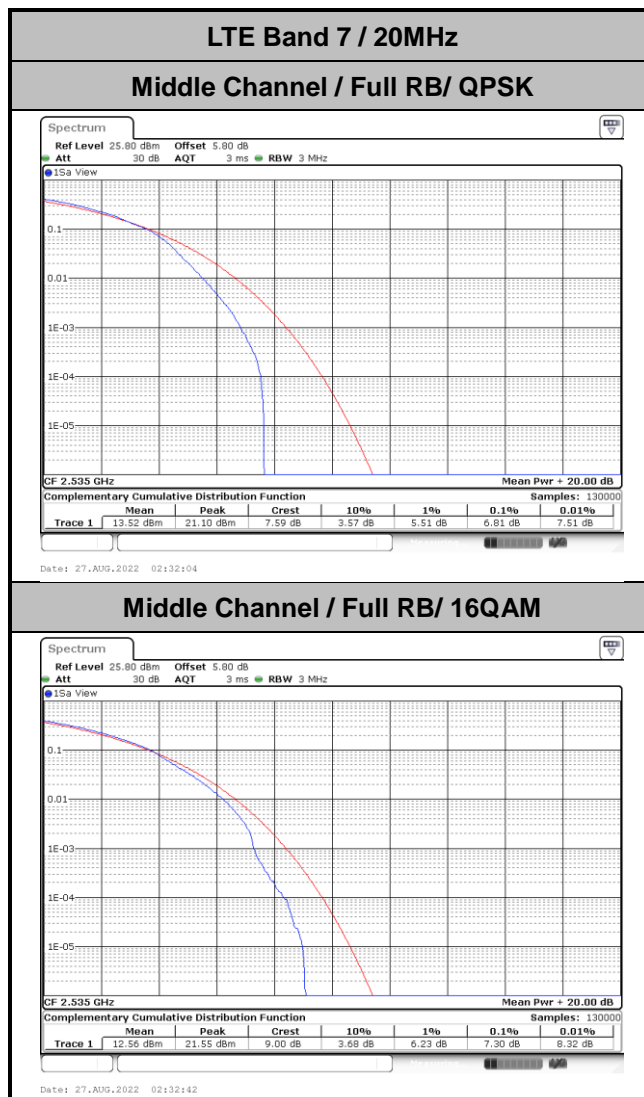
1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.2 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

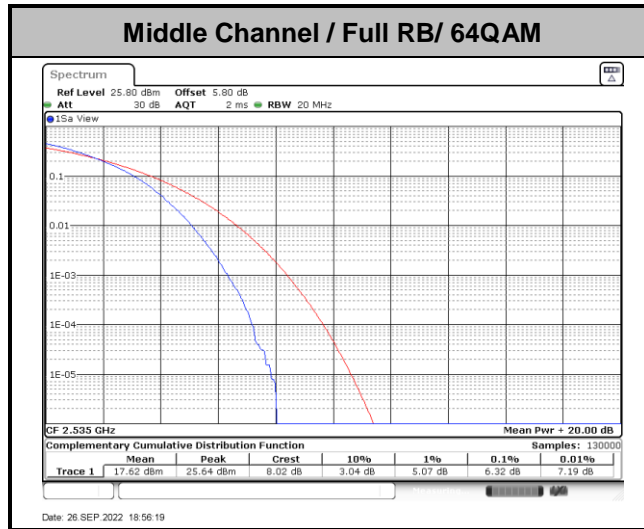


# LTE Band 7

## Peak-to-Average Ratio

Mode	LTE Band 7 / 20MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB			Result
Middle CH	6.81	7.30	6.32	PASS



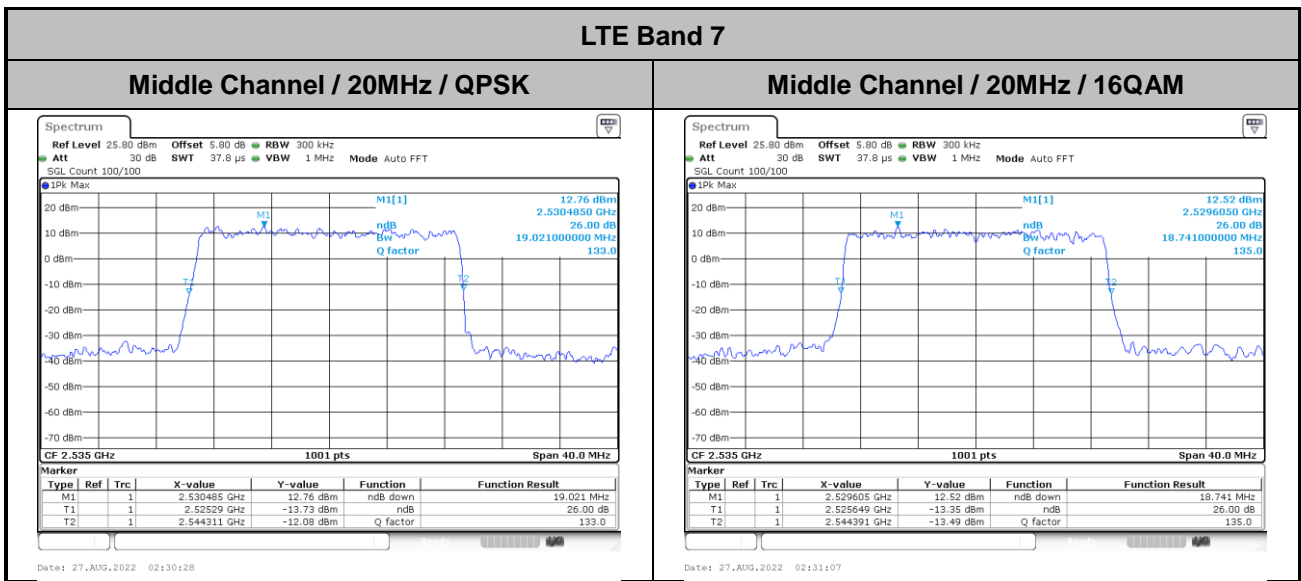






## 26dB Bandwidth

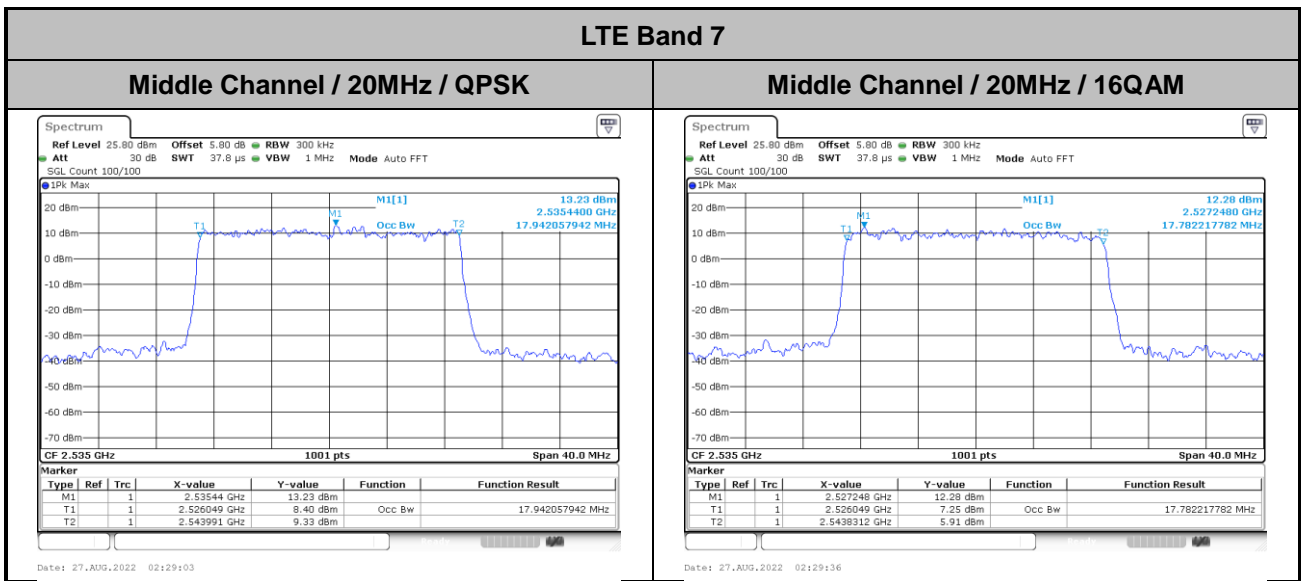
<b>Mode</b>	<b>LTE Band 7 : 26dB BW(MHz)</b>	
<b>BW</b>	<b>20MHz</b>	
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>
<b>Middle CH</b>	19.02	18.74





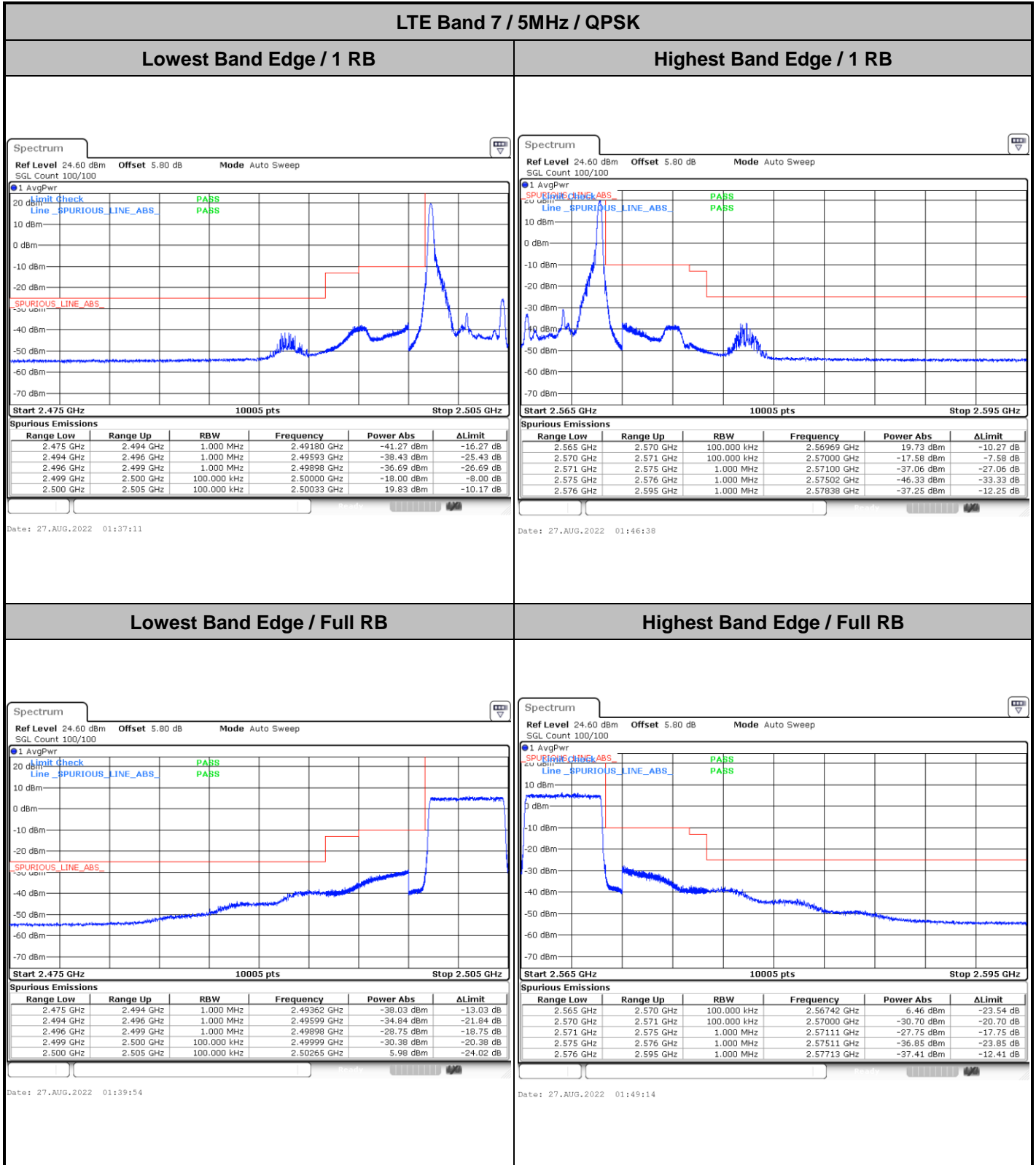
## Occupied Bandwidth

<b>Mode</b>	<b>LTE Band 7 : 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	17.78





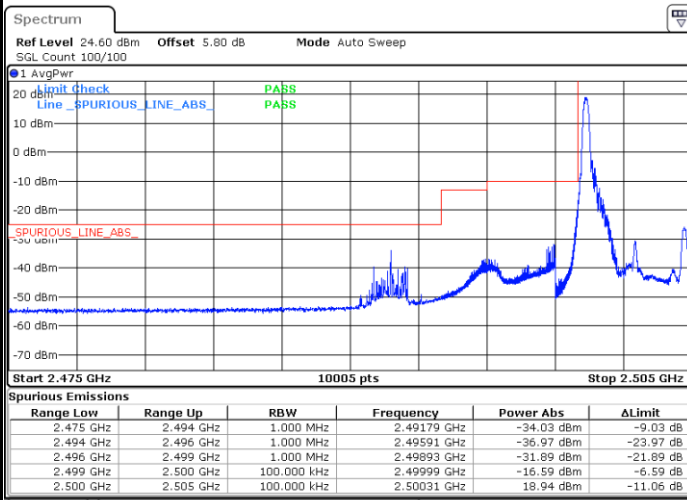
# Conducted Band Edge





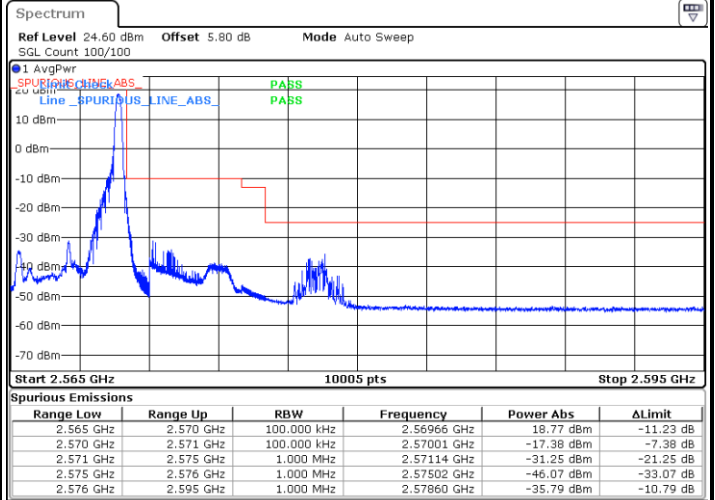
LTE Band 7 / 5MHz / 16QAM

Lowest Band Edge / 1RB



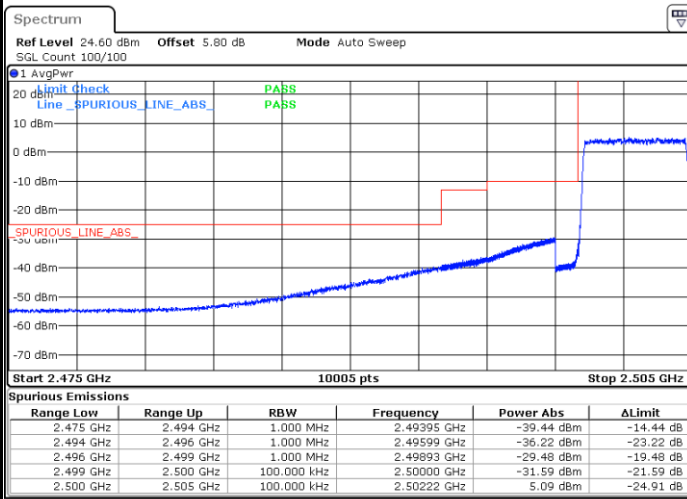
Date: 27.AUG.2022 01:38:18

Highest Band Edge / 1 RB



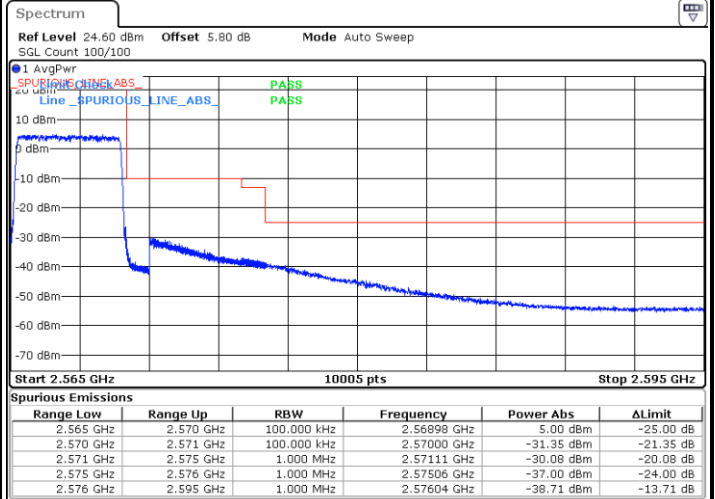
Date: 27.AUG.2022 01:47:17

Lowest Band Edge / Full RB



Date: 27.AUG.2022 01:39:19

Highest Band Edge / Full RB

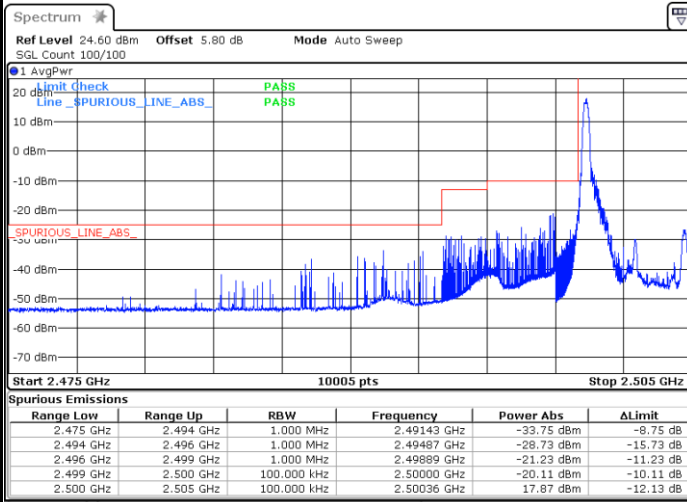


Date: 27.AUG.2022 01:48:28



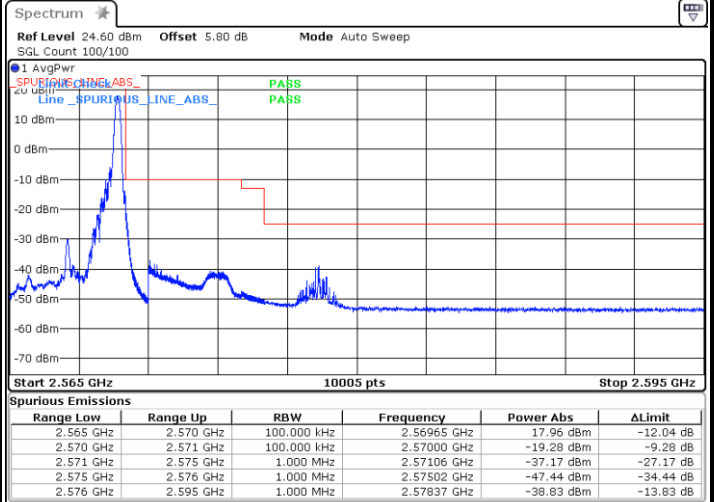
LTE Band 7 / 5MHz / 64QAM

Lowest Band Edge / 1RB



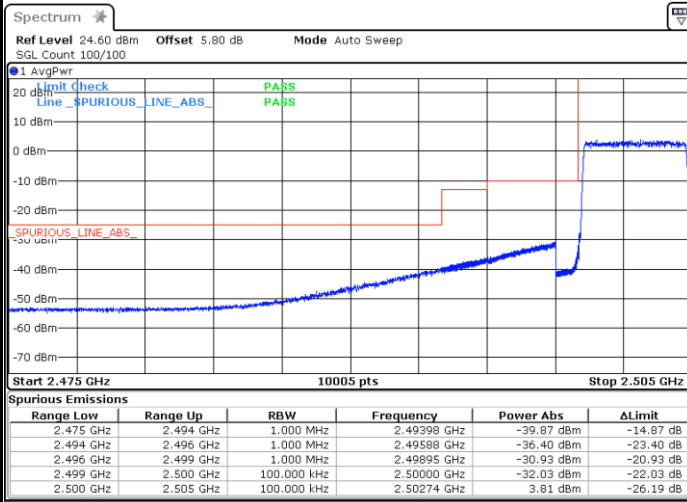
Date: 26 SEP 2022 18:16:47

Highest Band Edge / 1 RB



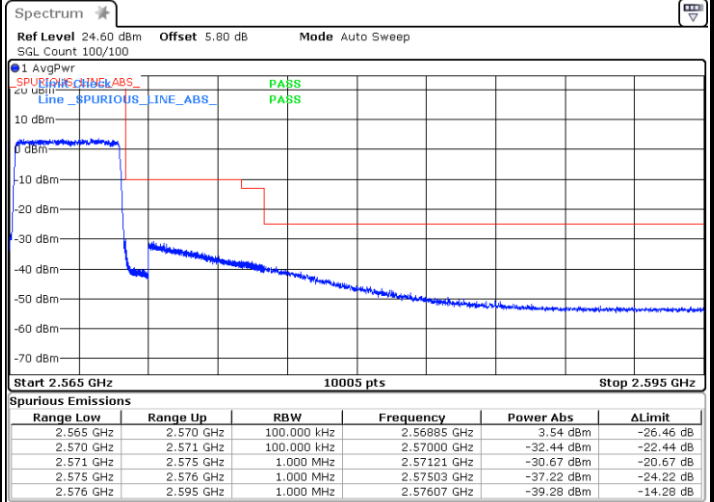
Date: 26 SEP 2022 18:18:24

Lowest Band Edge / Full RB



Date: 26 SEP 2022 18:15:40

Highest Band Edge / Full RB

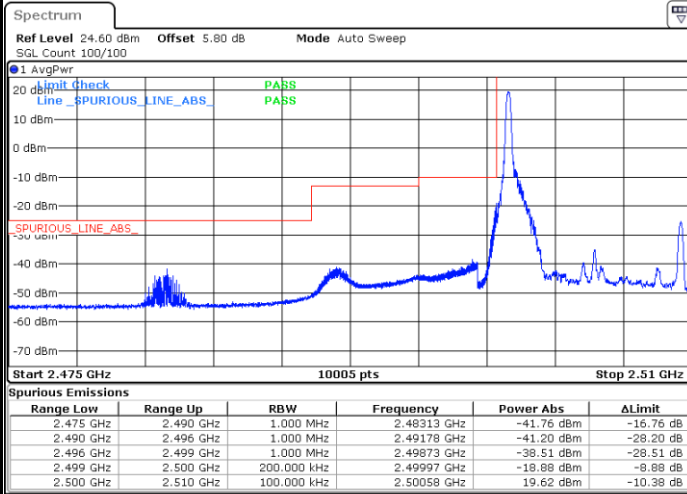


Date: 26 SEP 2022 18:21:16



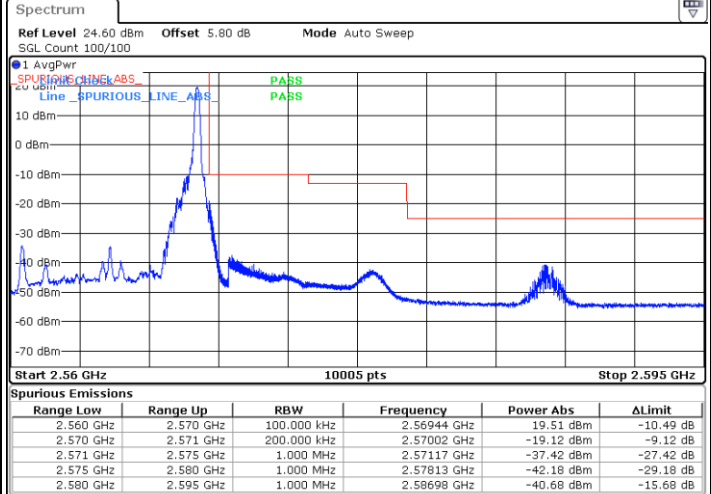
LTE Band 7 / 10MHz / QPSK

Lowest Band Edge / 1 RB



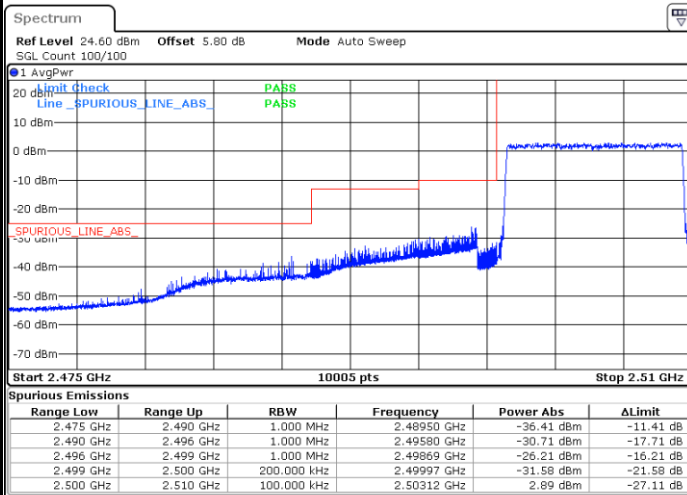
Date: 27.AUG.2022 01:51:05

Highest Band Edge / 1 RB



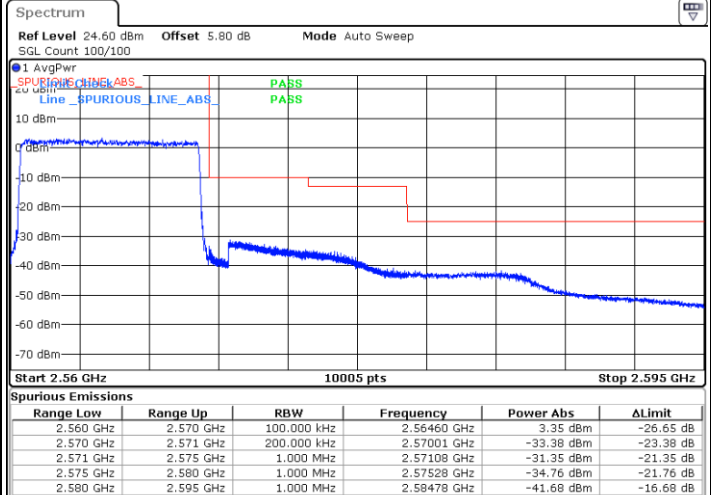
Date: 27.AUG.2022 01:59:30

Lowest Band Edge / Full RB



Date: 27.AUG.2022 01:52:54

Highest Band Edge / Full RB

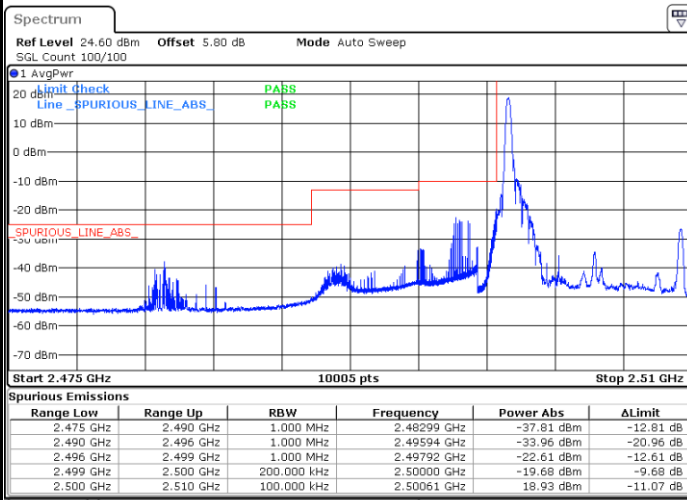


Date: 27.AUG.2022 02:02:35



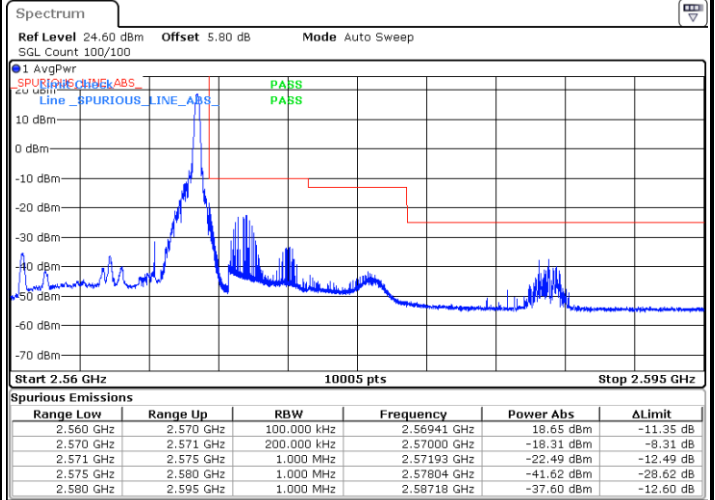
LTE Band 7 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



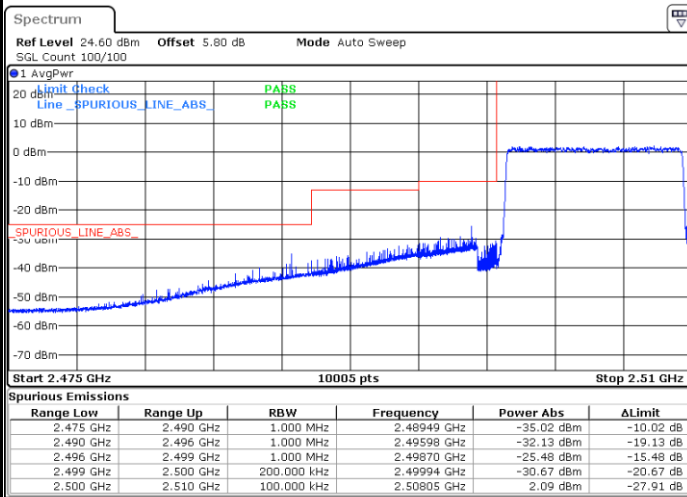
Date: 27.AUG.2022 01:51:50

Highest Band Edge / 1 RB



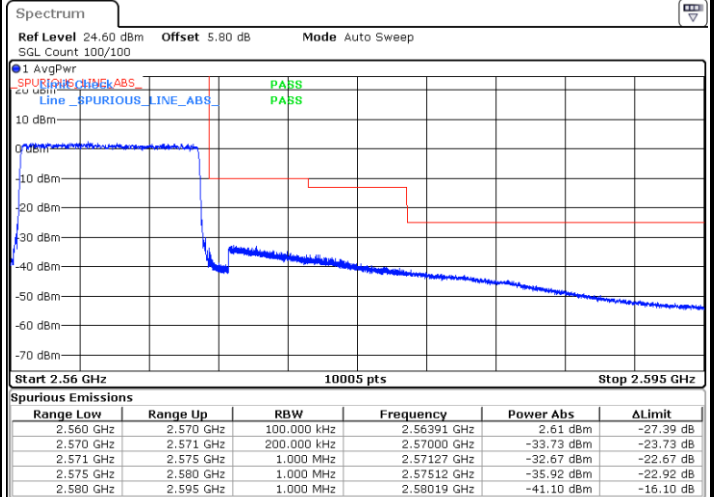
Date: 27.AUG.2022 02:01:06

Lowest Band Edge / Full RB



Date: 27.AUG.2022 01:52:24

Highest Band Edge / Full RB



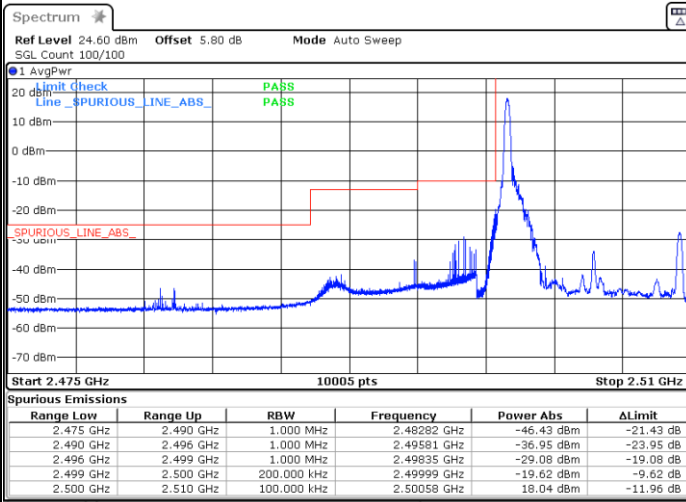
Date: 27.AUG.2022 02:01:54



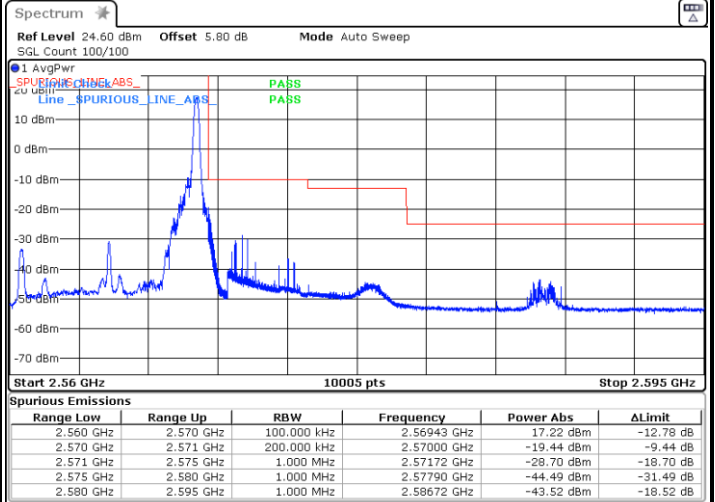
LTE Band 7 / 10MHz / 64QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



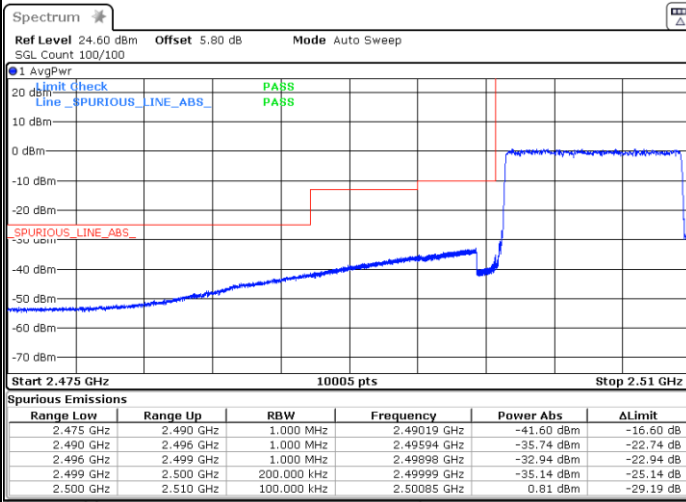
Date: 26 SEP 2022 18:42:16



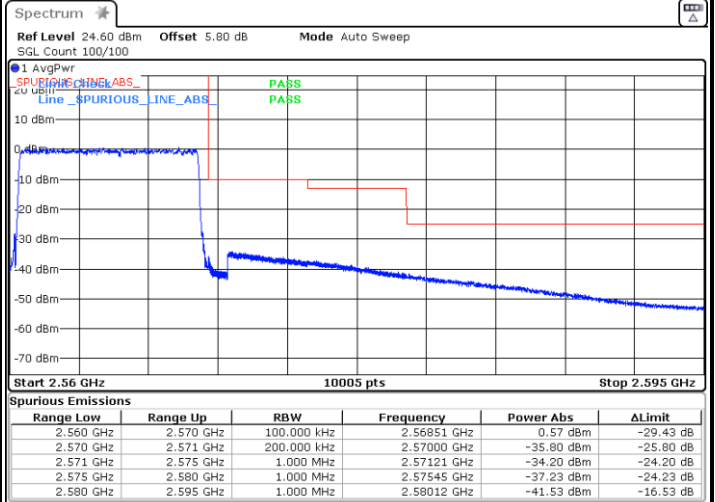
Date: 26 SEP 2022 18:43:24

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 26 SEP 2022 18:39:58



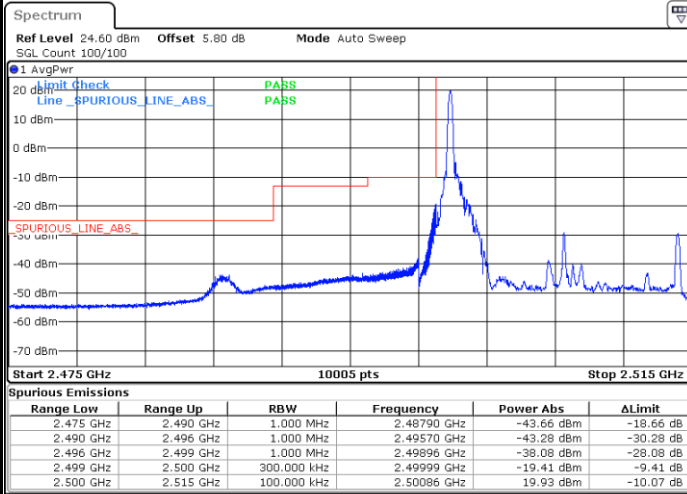
Date: 26 SEP 2022 18:45:19





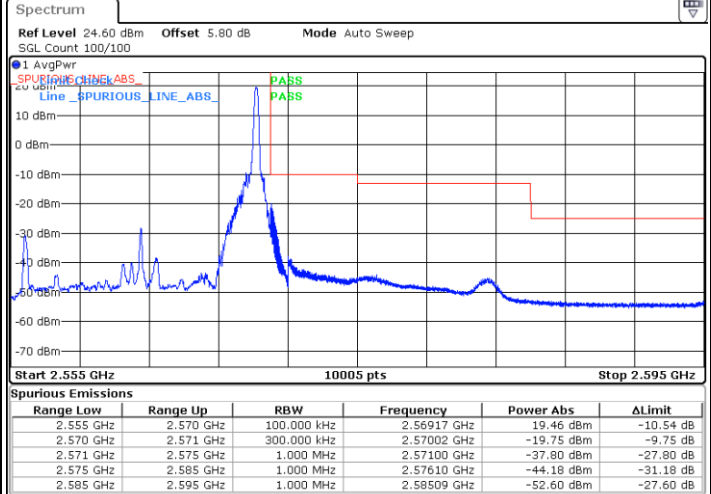
LTE Band 7 / 15MHz / QPSK

Lowest Band Edge / 1 RB



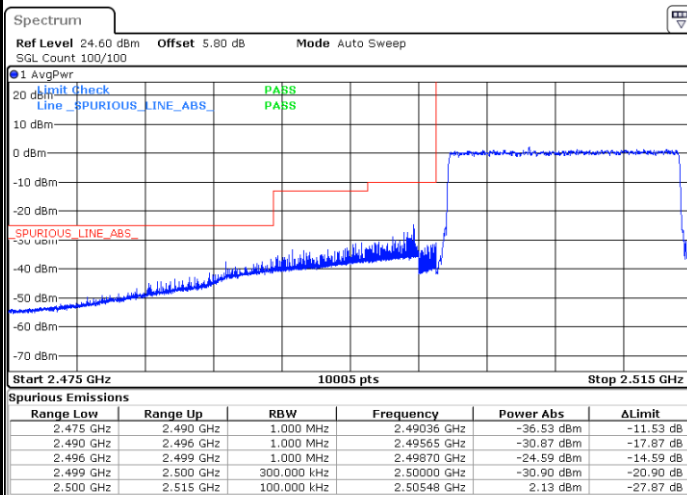
Date: 27.AUG.2022 02:03:45

Highest Band Edge / 1 RB



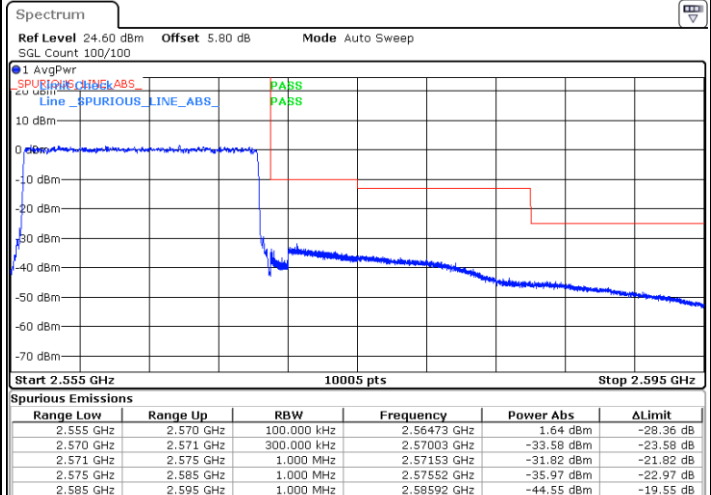
Date: 27.AUG.2022 02:15:52

Lowest Band Edge / Full RB



Date: 27.AUG.2022 02:06:45

Highest Band Edge / Full RB

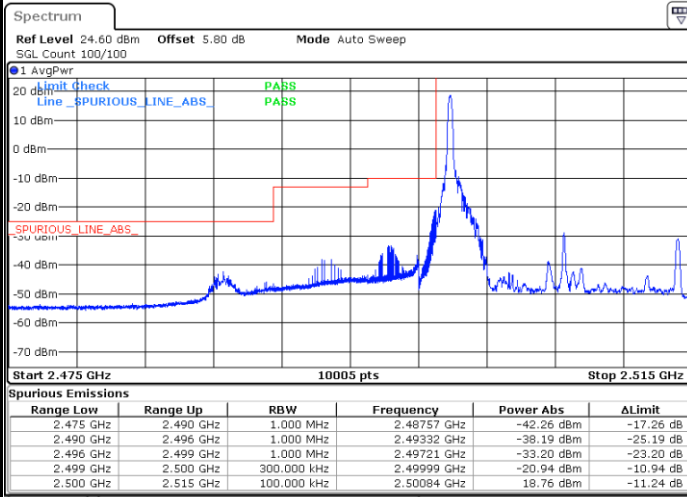


Date: 27.AUG.2022 02:17:56



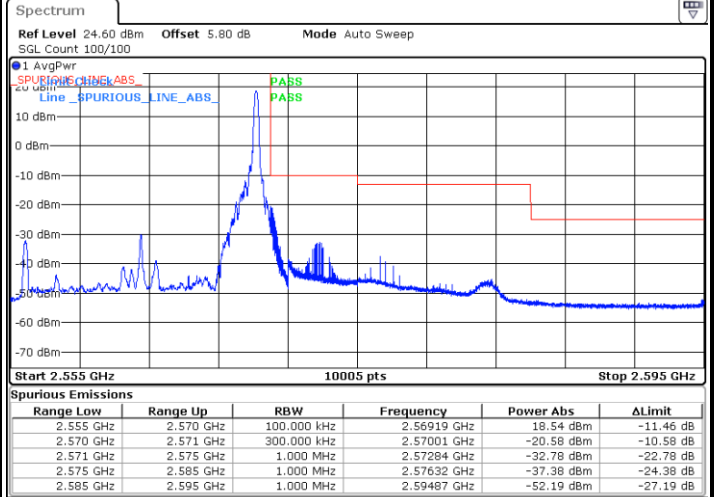
LTE Band 7 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



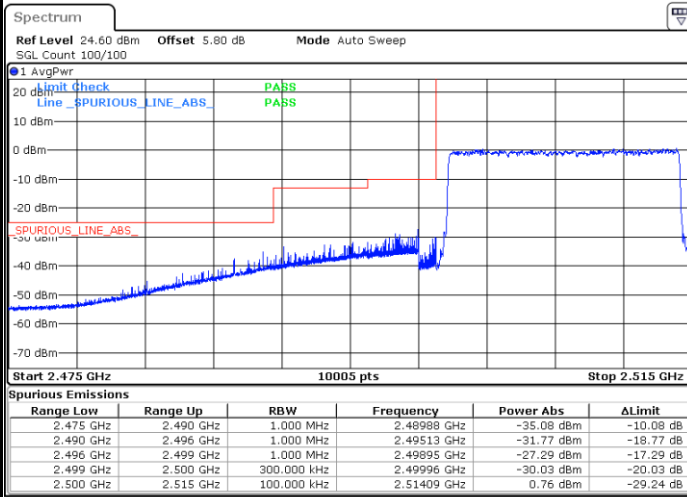
Date: 27.AUG.2022 02:04:36

Highest Band Edge / 1 RB



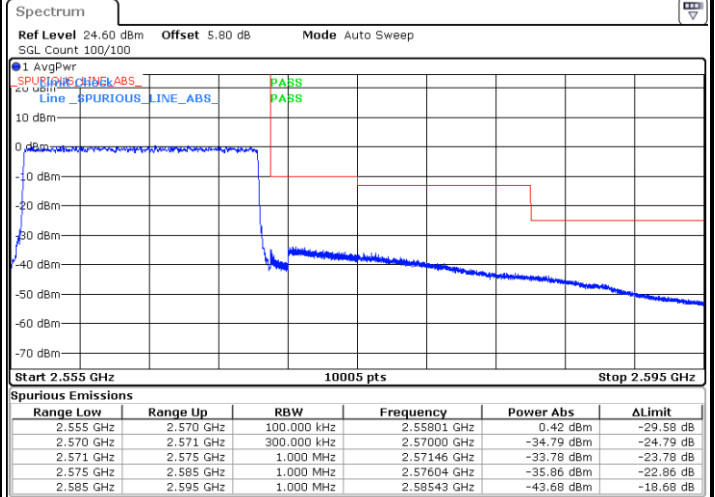
Date: 27.AUG.2022 02:16:25

Lowest Band Edge / Full RB



Date: 27.AUG.2022 02:05:46

Highest Band Edge / Full RB

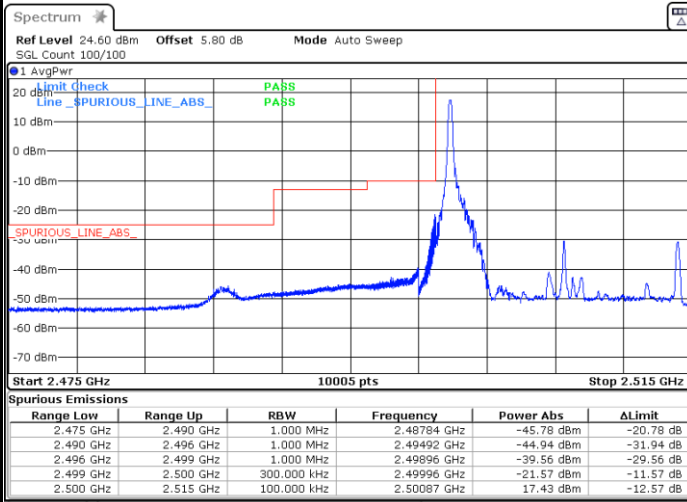


Date: 27.AUG.2022 02:16:58



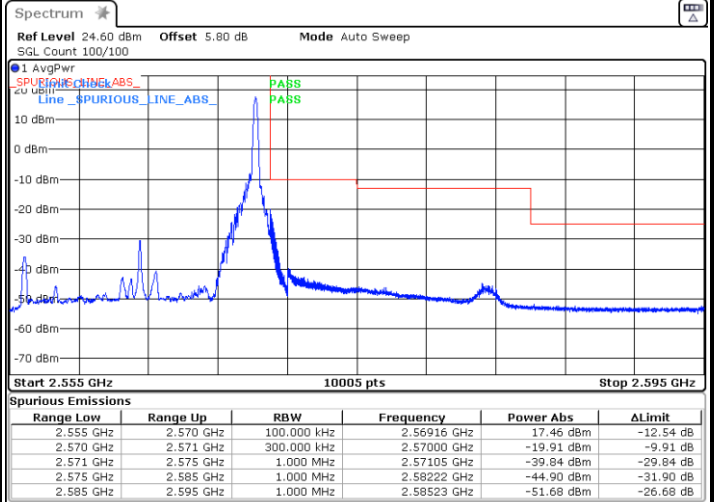
LTE Band 7 / 15MHz / 64QAM

Lowest Band Edge / 1 RB



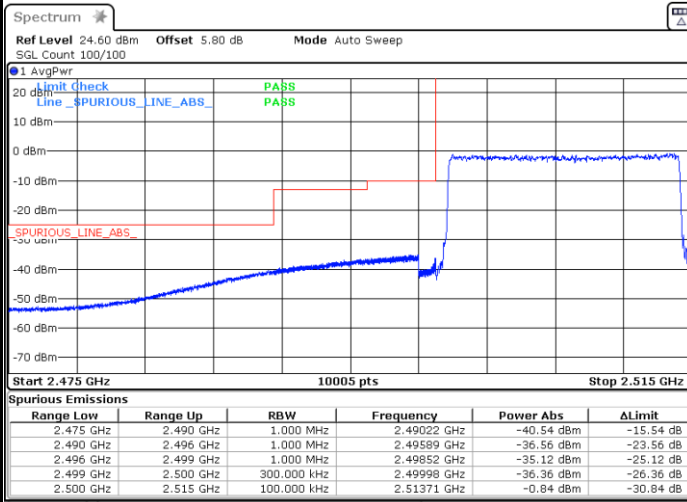
Date: 26 SEP 2022 18:51:13

Highest Band Edge / 1 RB



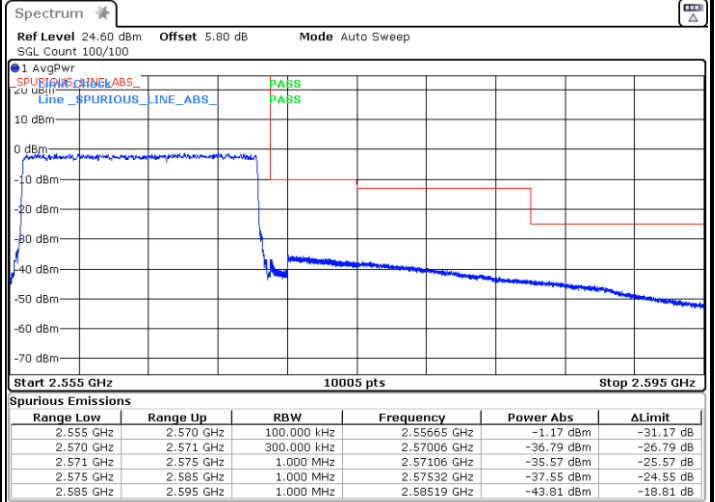
Date: 26 SEP 2022 18:52:07

Lowest Band Edge / Full RB



Date: 26 SEP 2022 18:50:11

Highest Band Edge / Full RB

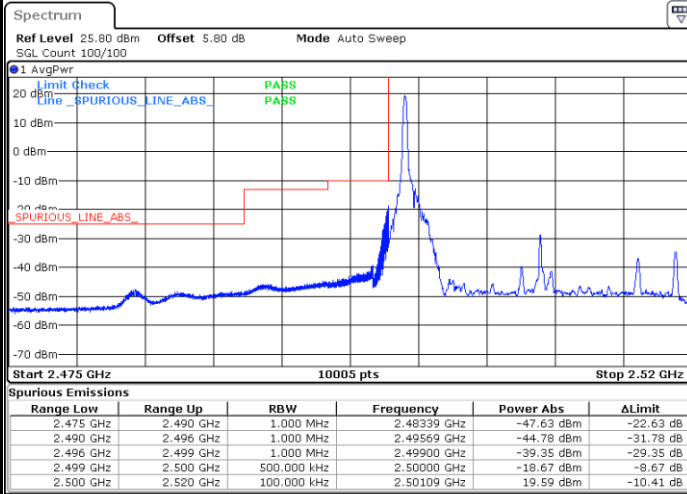


Date: 26 SEP 2022 18:52:40

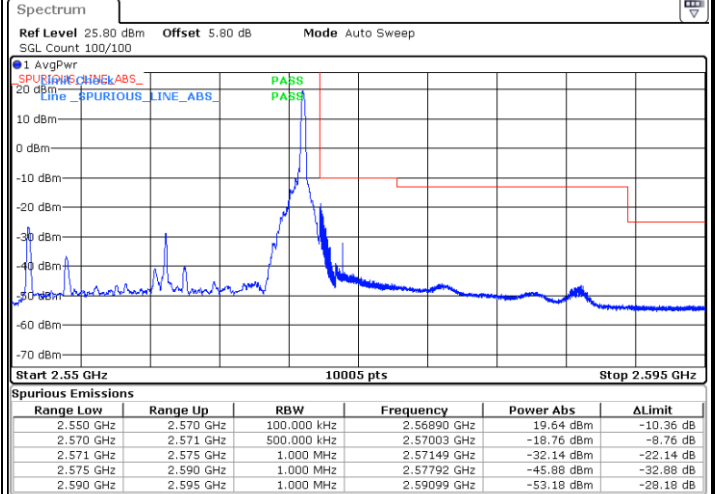


LTE Band 7 / 20MHz / QPSK

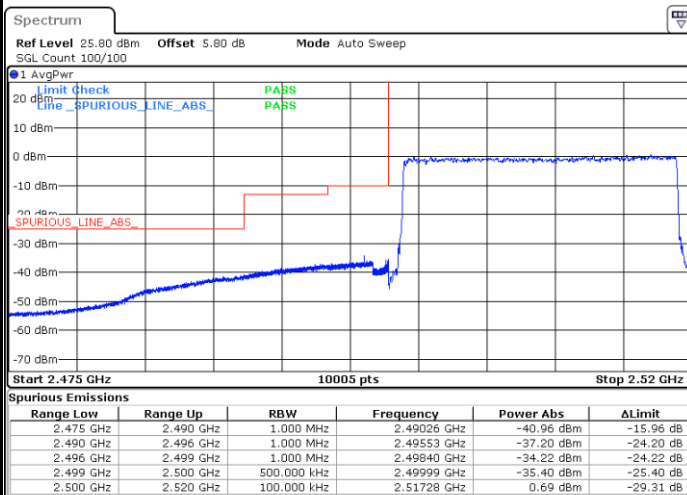
Lowest Band Edge / 1 RB



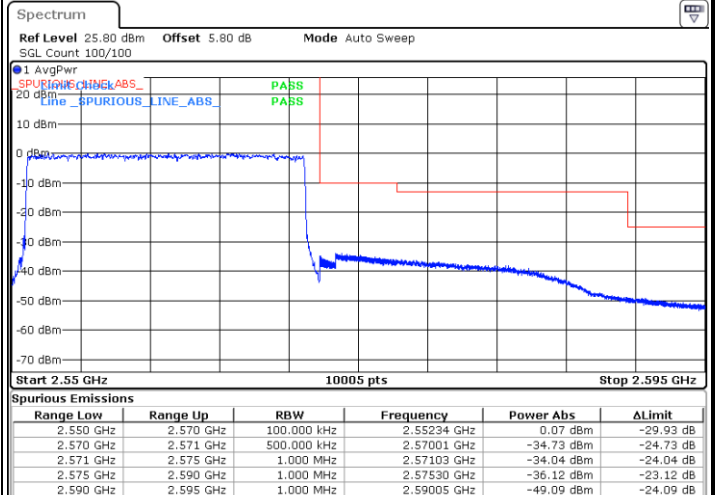
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



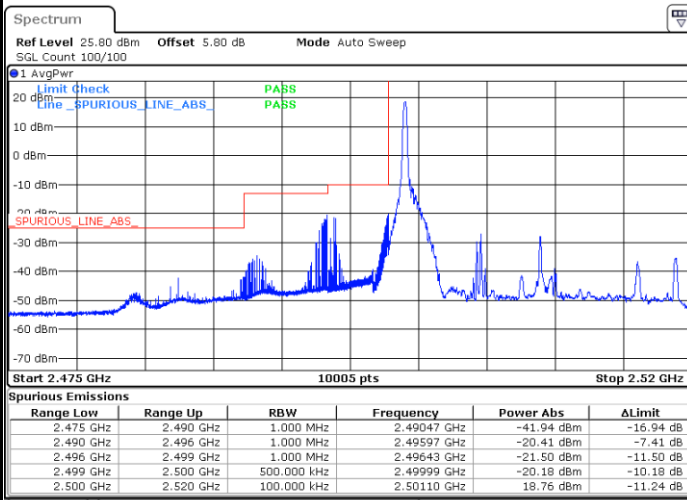
Highest Band Edge / Full RB





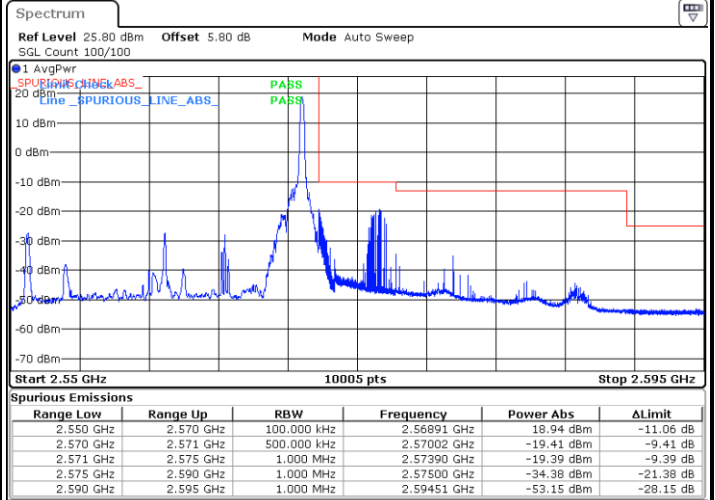
LTE Band 7 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



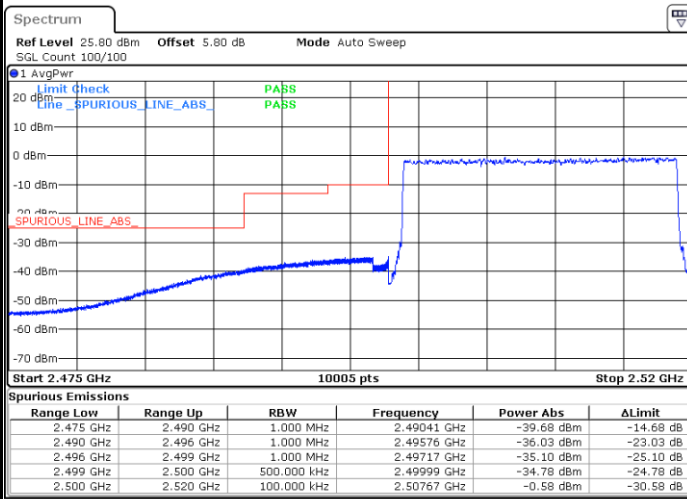
Date: 27.AUG.2022 02:20:56

Highest Band Edge / 1 RB



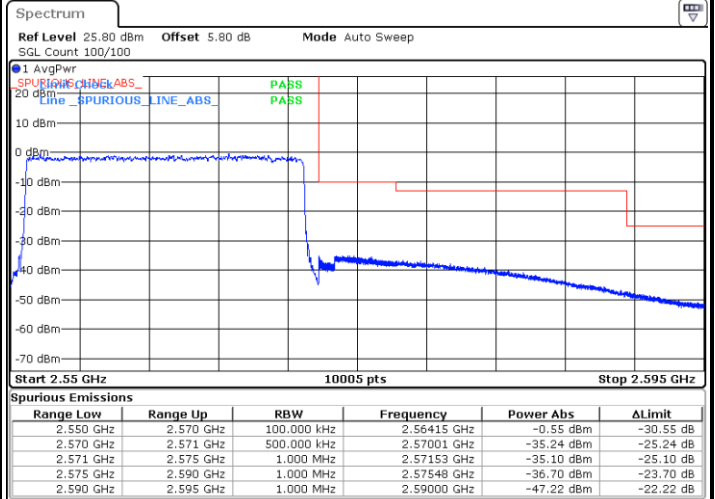
Date: 27.AUG.2022 02:34:34

Lowest Band Edge / Full RB



Date: 27.AUG.2022 02:21:29

Highest Band Edge / Full RB

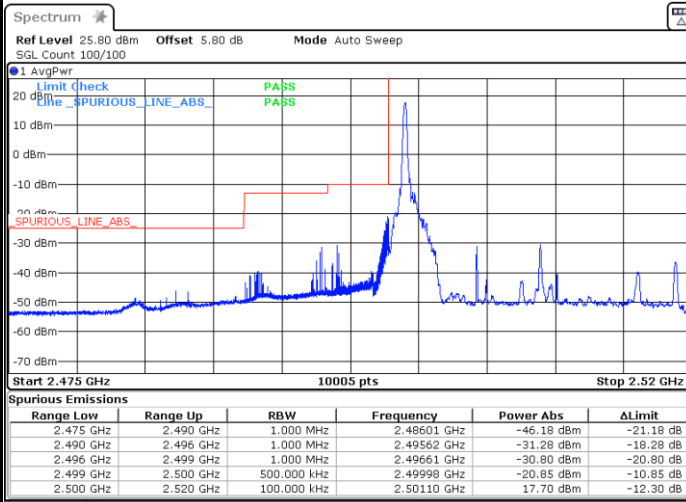


Date: 27.AUG.2022 02:36:11



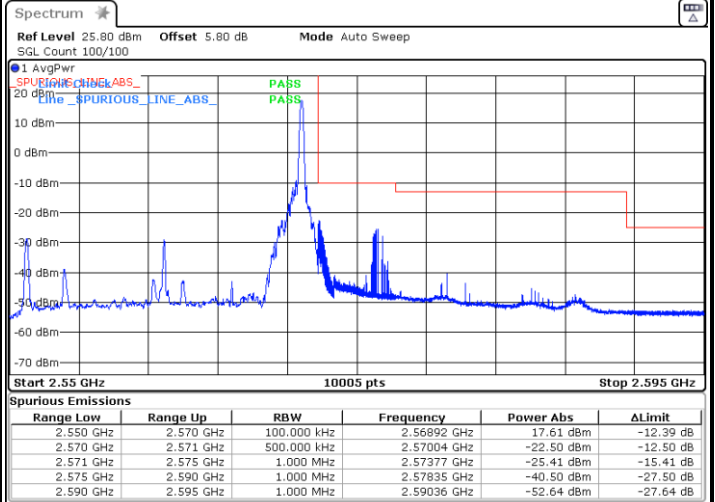
LTE Band 7 / 20MHz / 64QAM

Lowest Band Edge / 1 RB



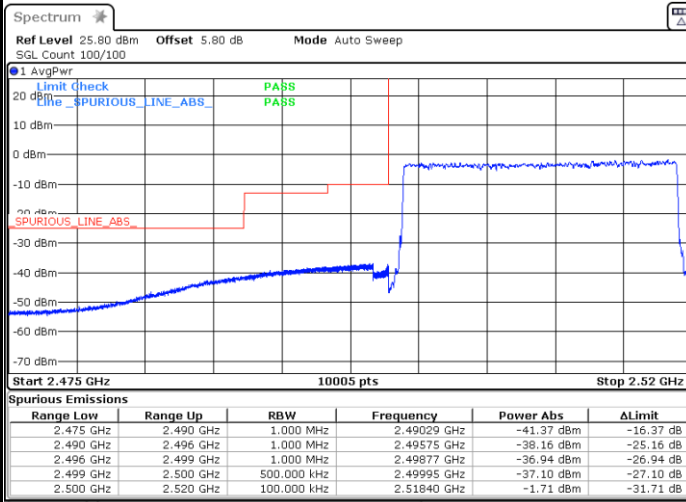
Date: 26 SEP 2022 18:54:28

Highest Band Edge / 1 RB



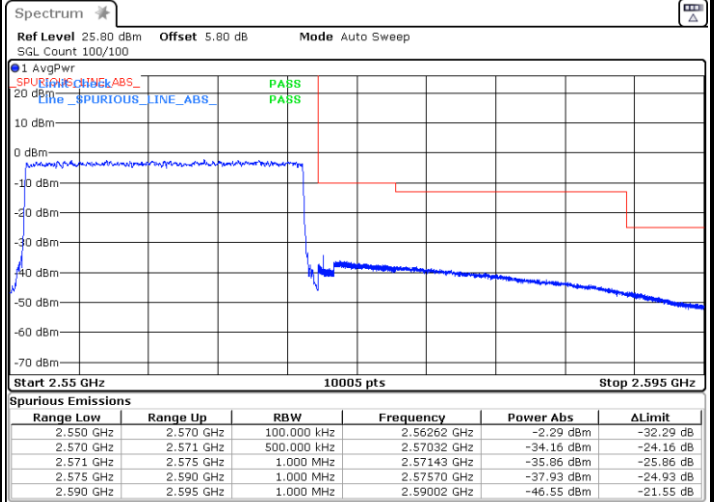
Date: 26 SEP 2022 18:55:08

Lowest Band Edge / Full RB



Date: 26 SEP 2022 18:53:43

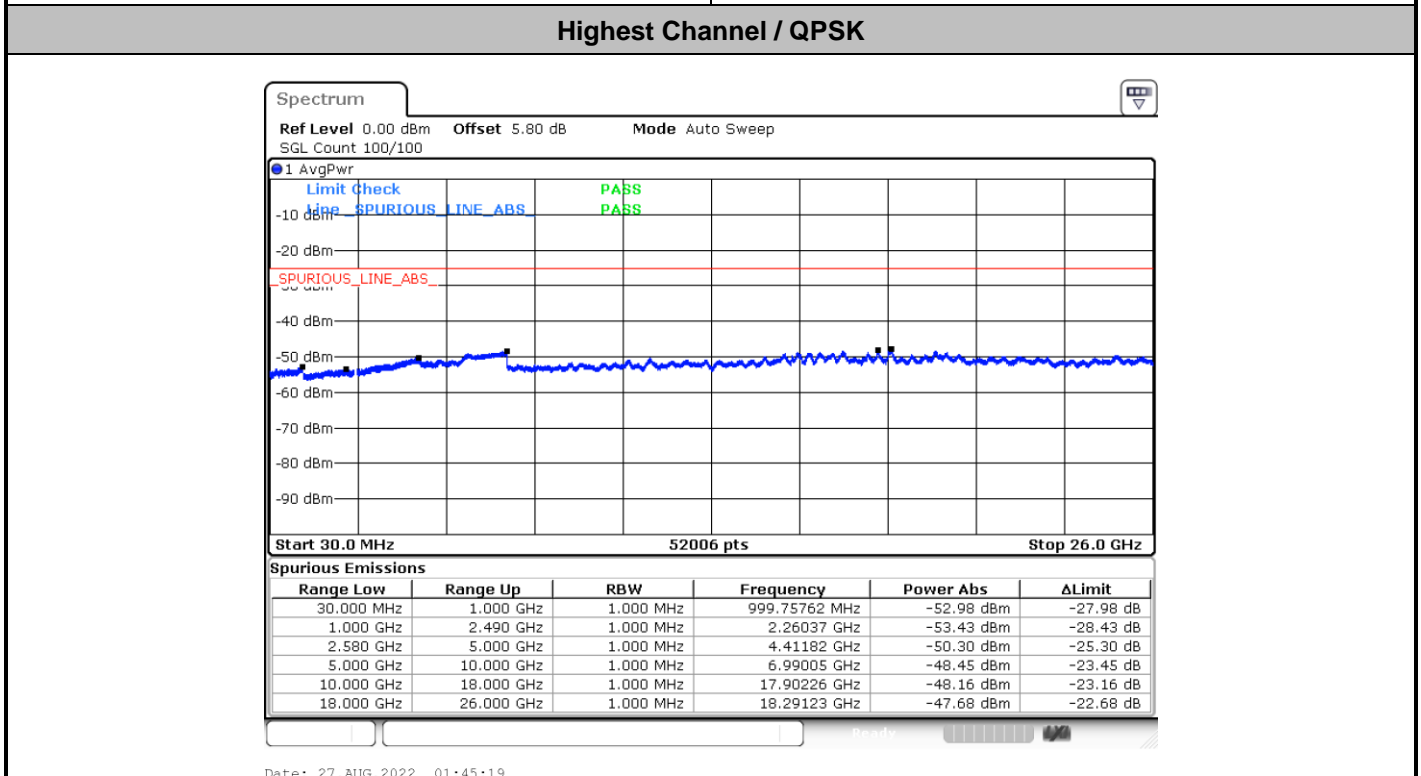
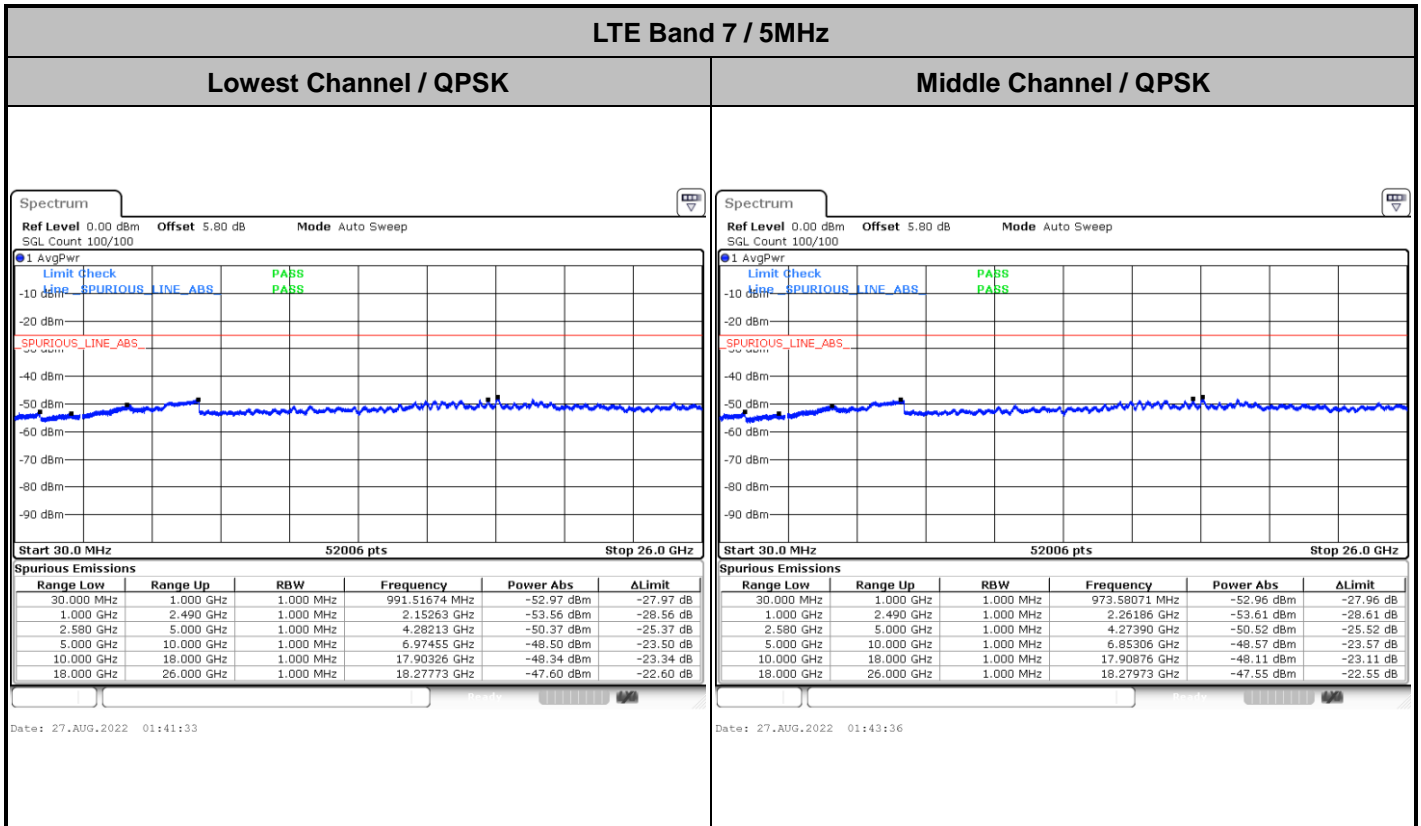
Highest Band Edge / Full RB



Date: 26 SEP 2022 18:55:44



# Conducted Spurious Emission

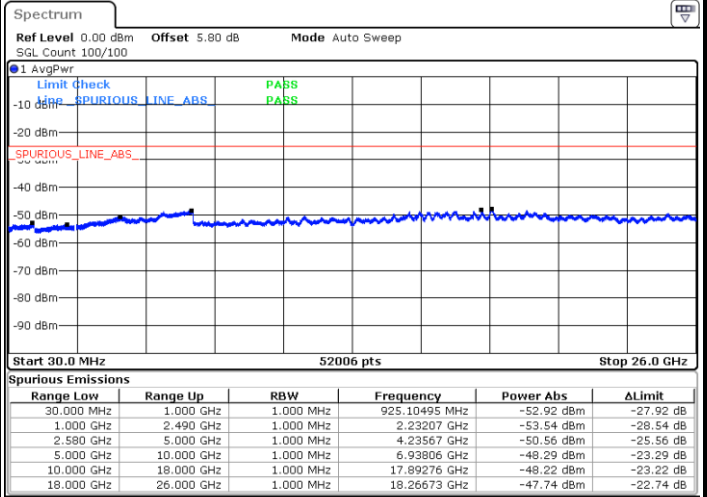
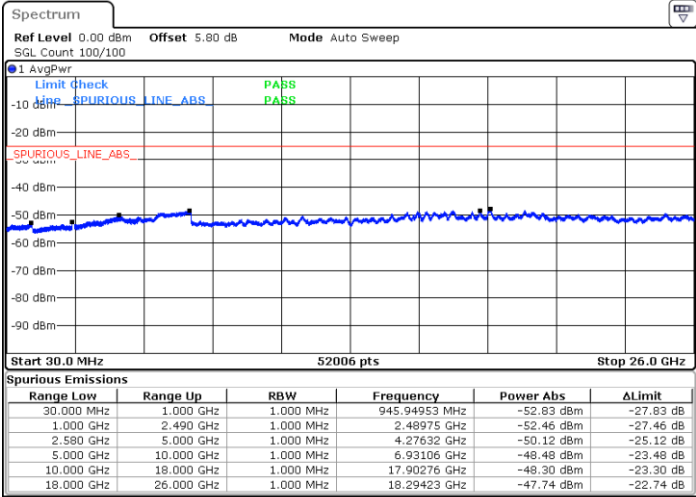




LTE Band 7 / 10MHz

Lowest Channel / QPSK

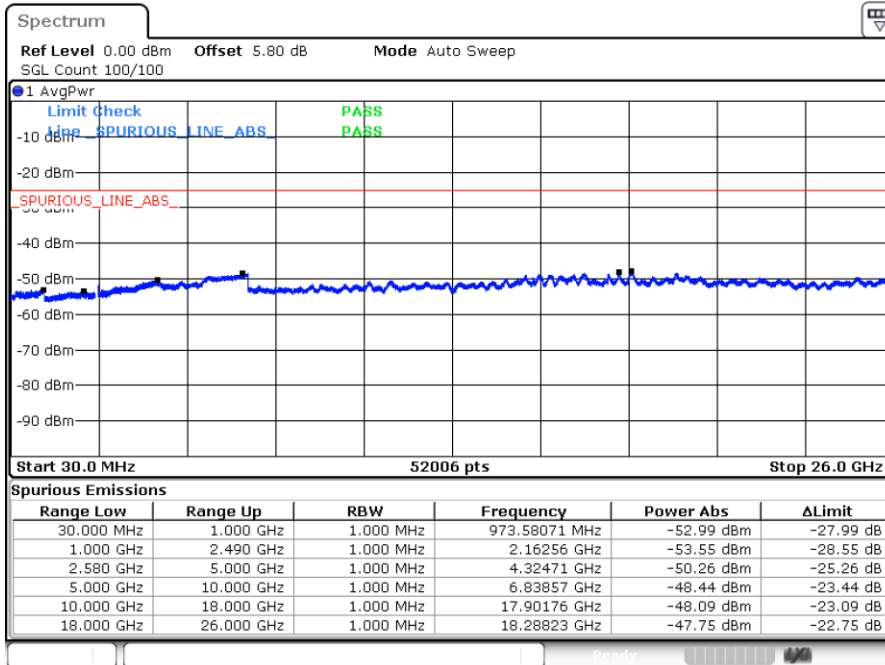
Middle Channel / QPSK



Date: 27.AUG.2022 01:54:22

Date: 27.AUG.2022 01:56:29

Highest Channel / QPSK



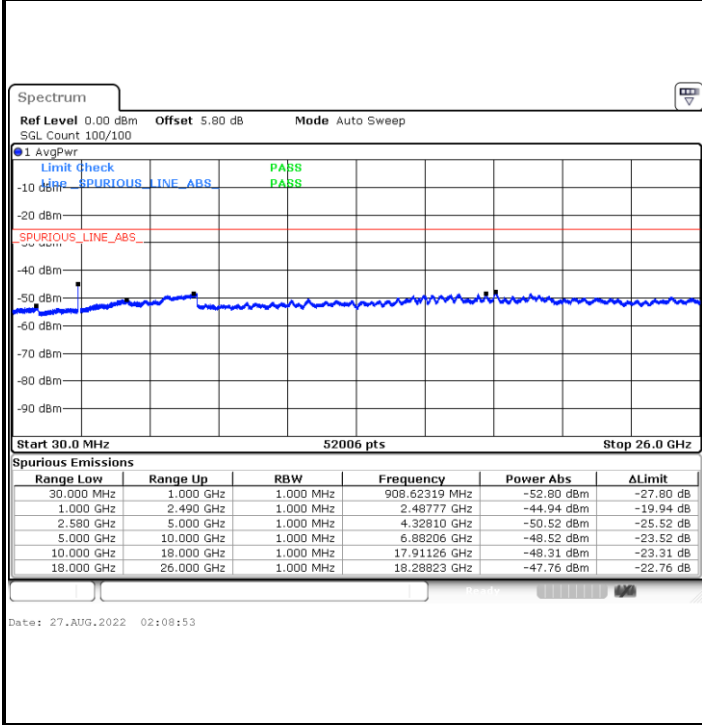
Date: 27.AUG.2022 01:58:16



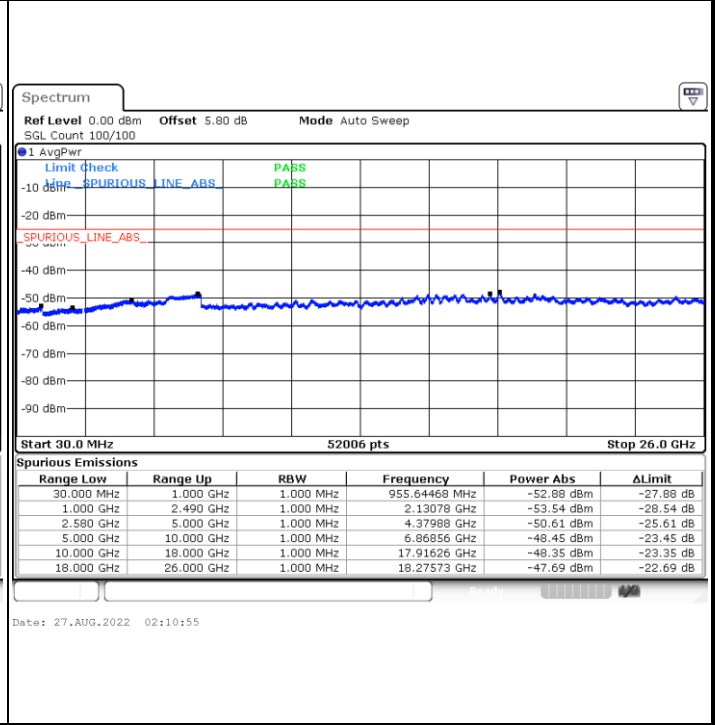


**LTE Band 7 / 15MHz**

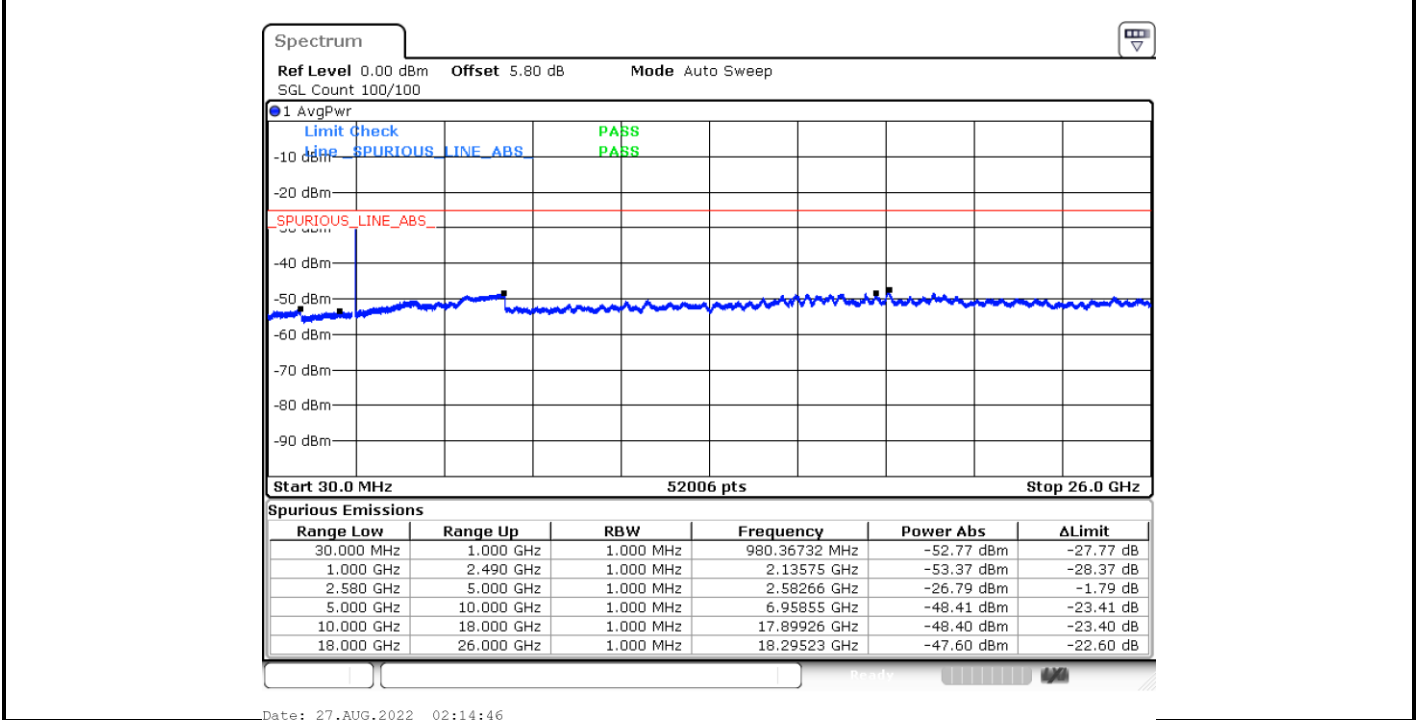
**Lowest Channel / QPSK**



**Middle Channel / QPSK**



**Highest Channel / QPSK**

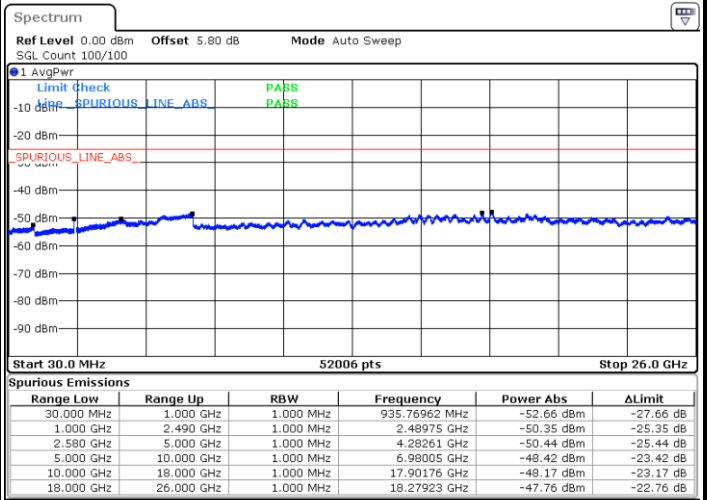
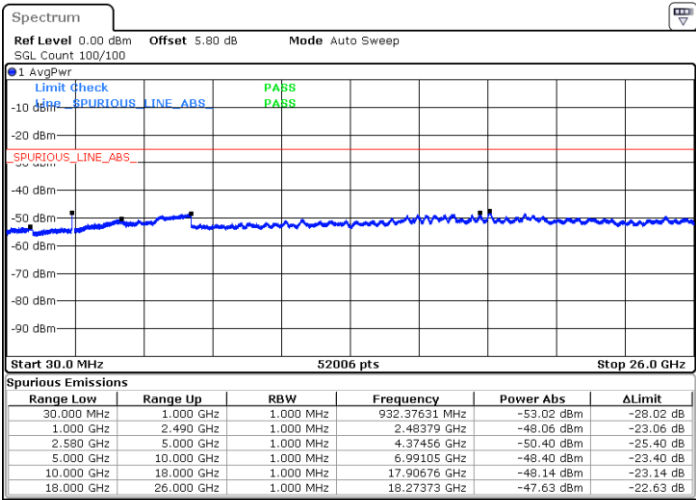




LTE Band 7 / 20MHz

Lowest Channel / QPSK

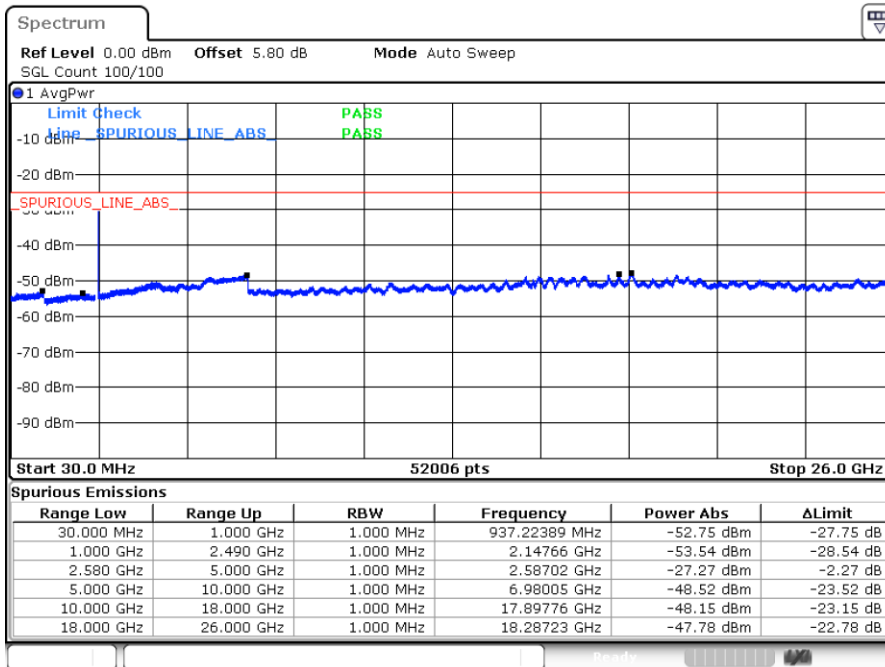
Middle Channel / QPSK



Date: 27.AUG.2022 02:24:26

Date: 27.AUG.2022 02:28:08

Highest Channel / QPSK



Date: 27.AUG.2022 02:43:29



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	0.0012	PASS
40	Normal Voltage	0.0015	
30	Normal Voltage	0.0006	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0005	
0	Normal Voltage	0.0018	
-10	Normal Voltage	0.0013	
-20	Normal Voltage	0.0009	
-30	Normal Voltage	0.0006	
20	Maximum Voltage	0.0007	
20	Normal Voltage	0.0011	
20	Battery End Point	0.0013	

Note:

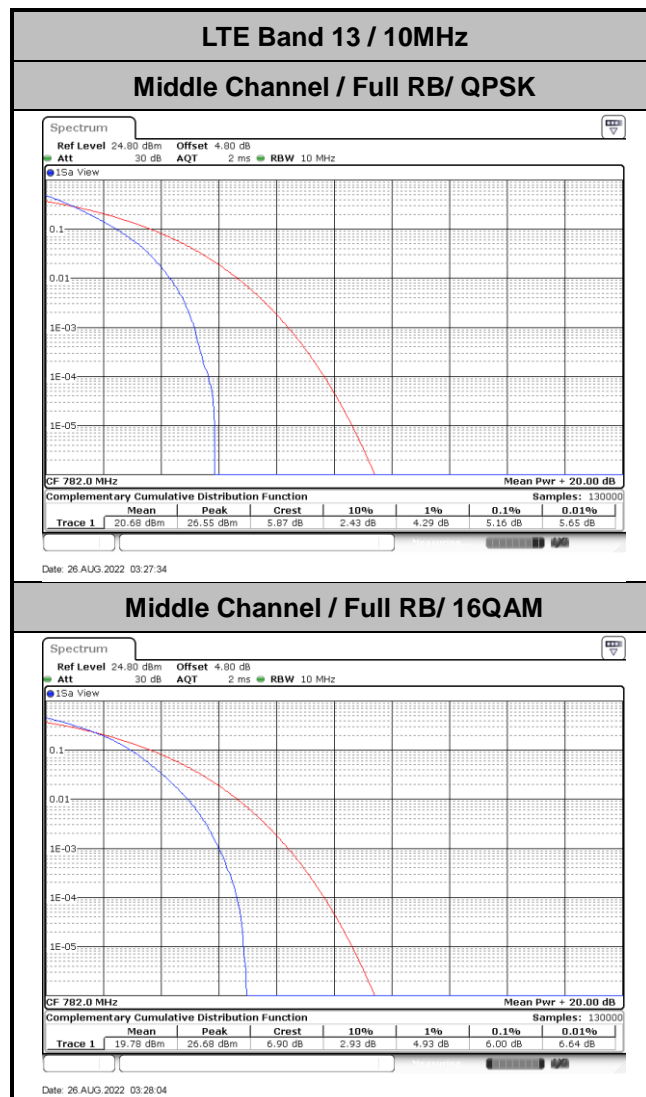
1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.2 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

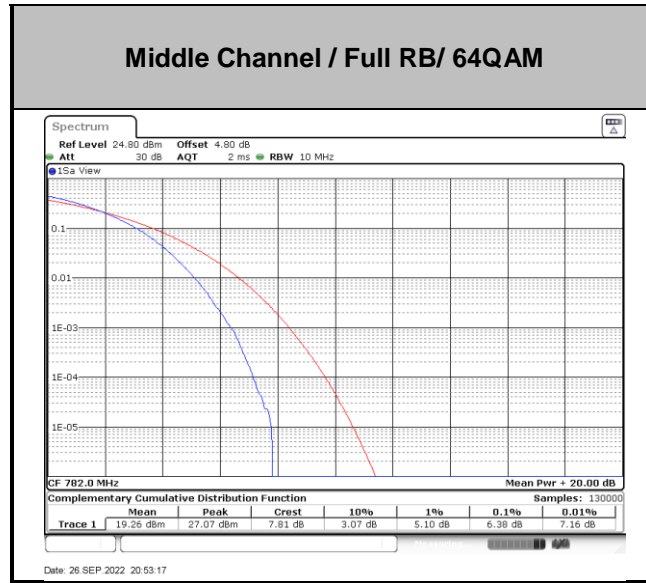


# LTE Band 13

## 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	5.16	6.00	6.38	PASS







**26dB Bandwidth**

Mode	LTE Band 13 : 26dB BW(MHz)	
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.77	9.85

