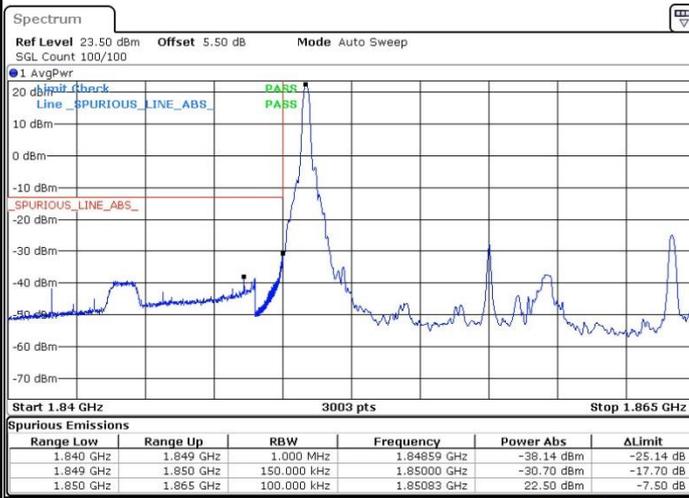




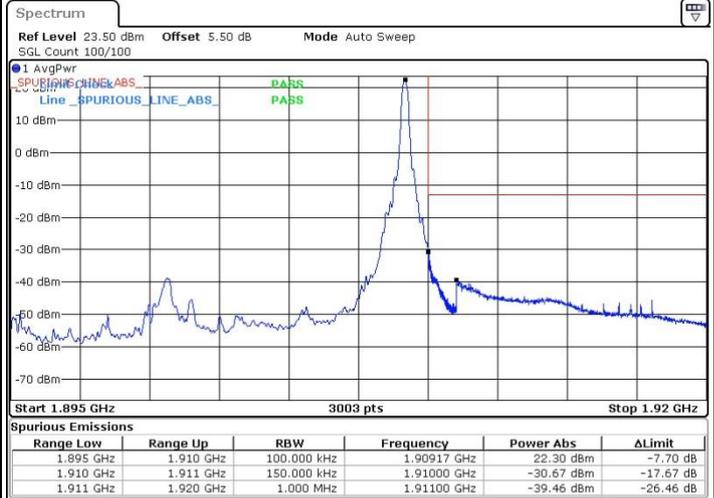
LTE Band 2 / 15MHz / QPSK

Lowest Band Edge / 1 RB



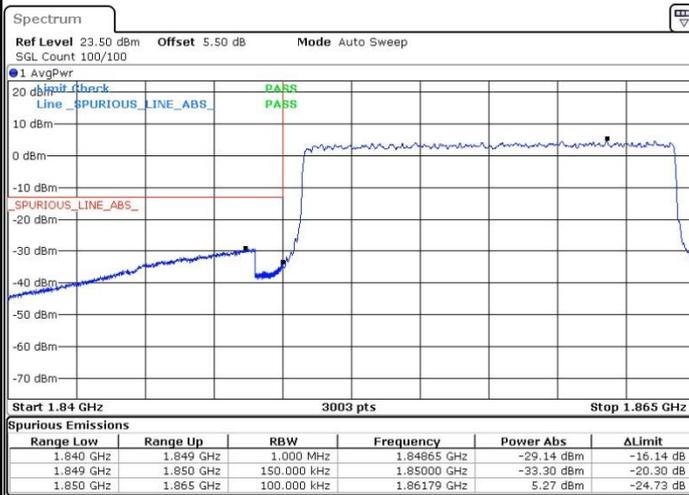
Date: 22 MAY 2021 00:49:02

Highest Band Edge / 1 RB



Date: 22 MAY 2021 00:53:34

Lowest Band Edge / Full RB



Date: 22 MAY 2021 00:51:18

Highest Band Edge / Full RB

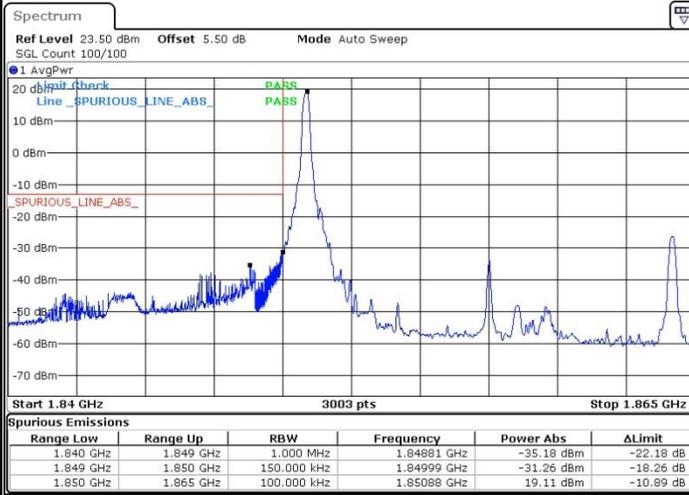


Date: 22 MAY 2021 00:55:50



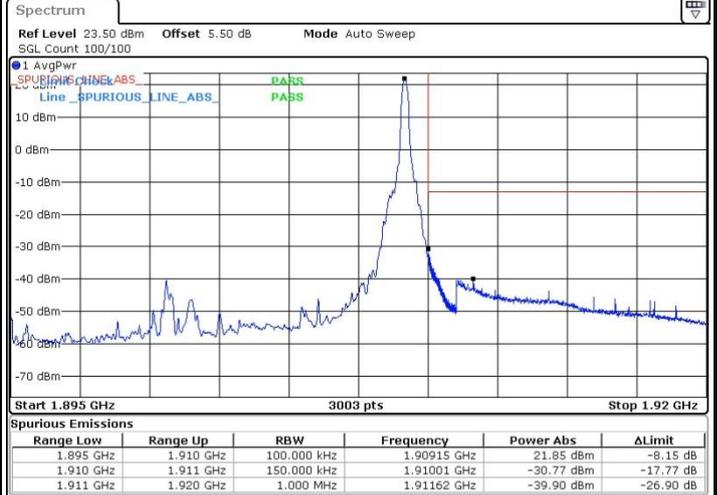
LTE Band 2 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



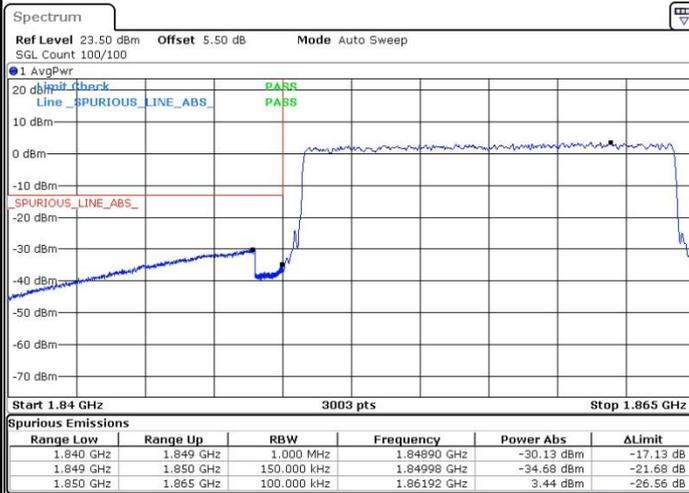
Date: 22 MAY 2021 00:50:10

Highest Band Edge / 1 RB



Date: 22 MAY 2021 00:54:42

Lowest Band Edge / Full RB



Date: 22 MAY 2021 00:52:26

Highest Band Edge / Full RB

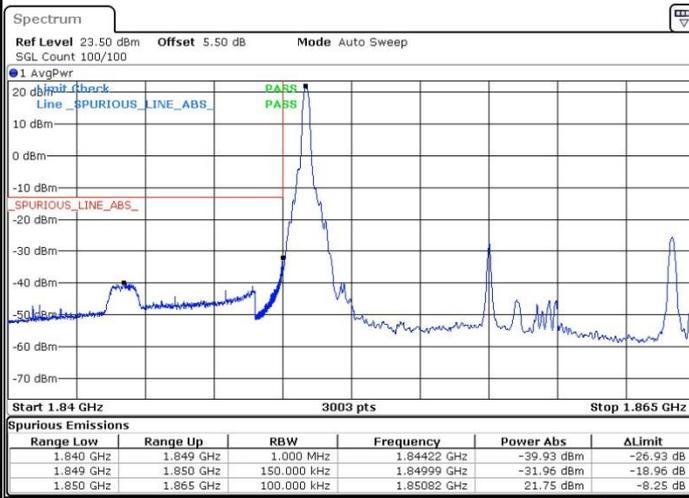


Date: 22 MAY 2021 00:56:58



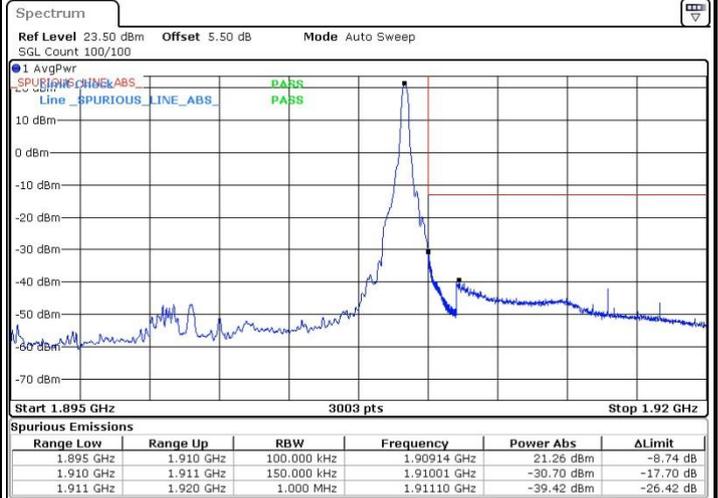
LTE Band 2 / 15MHz / 64QAM

Lowest Band Edge / 1 RB



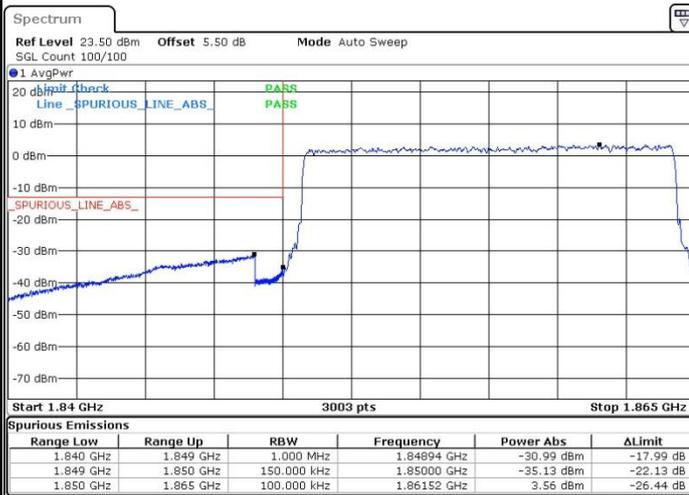
Date: 22.MAY.2021 01:25:18

Highest Band Edge / 1 RB



Date: 22.MAY.2021 01:28:41

Lowest Band Edge / Full RB



Date: 22.MAY.2021 01:26:26

Highest Band Edge / Full RB

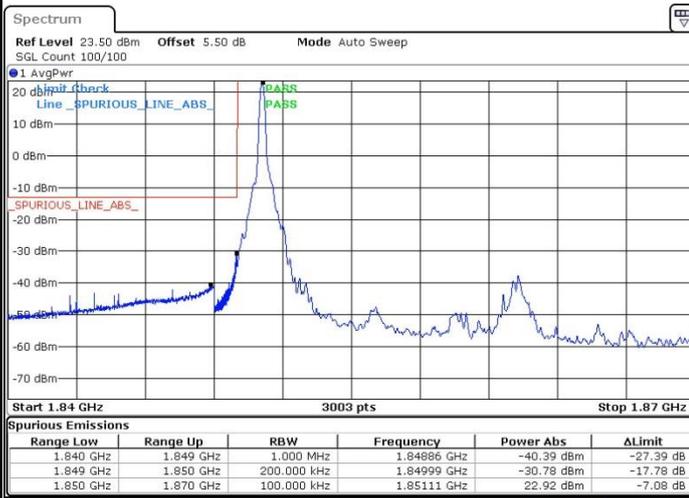


Date: 22.MAY.2021 01:27:34



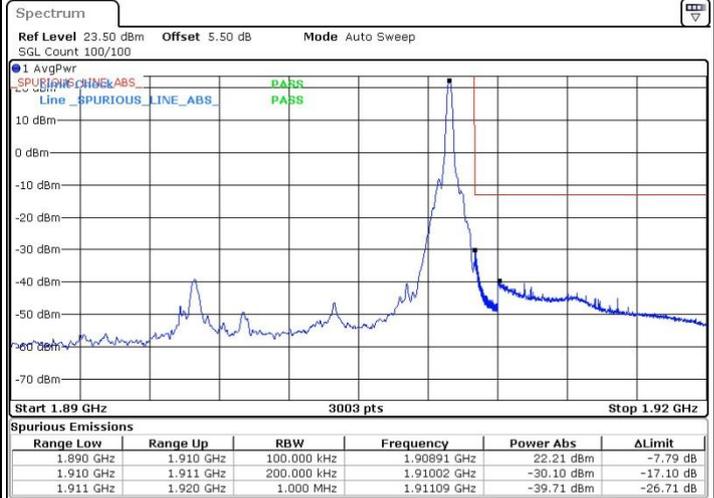
LTE Band 2 / 20MHz / QPSK

Lowest Band Edge / 1 RB



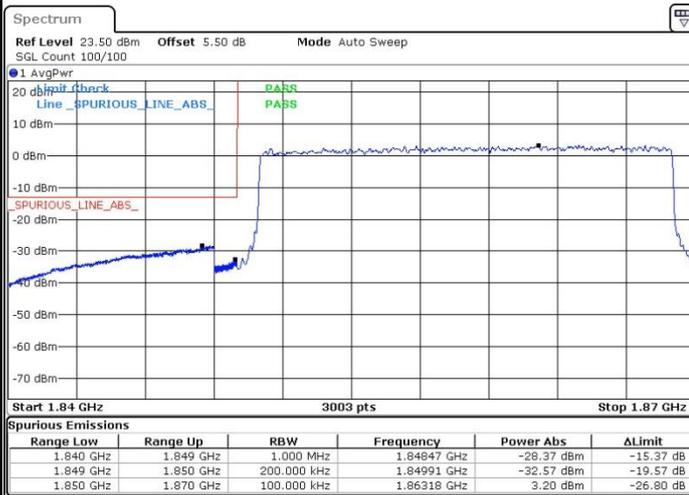
Date: 22 MAY 2021 00:58:06

Highest Band Edge / 1 RB



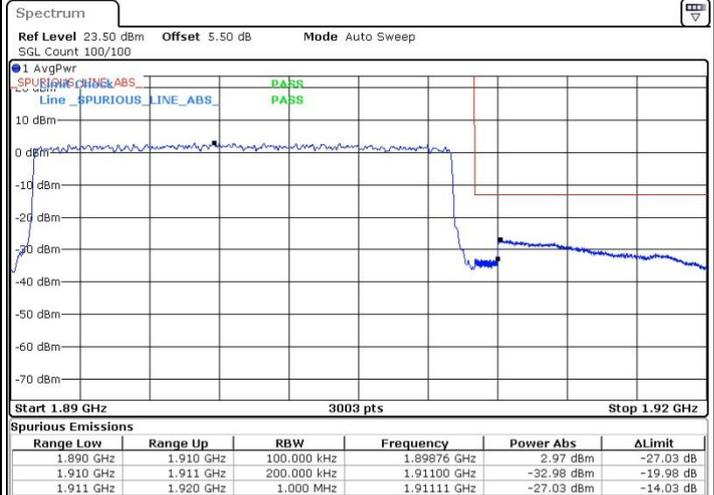
Date: 22 MAY 2021 01:02:38

Lowest Band Edge / Full RB



Date: 22 MAY 2021 01:00:22

Highest Band Edge / Full RB

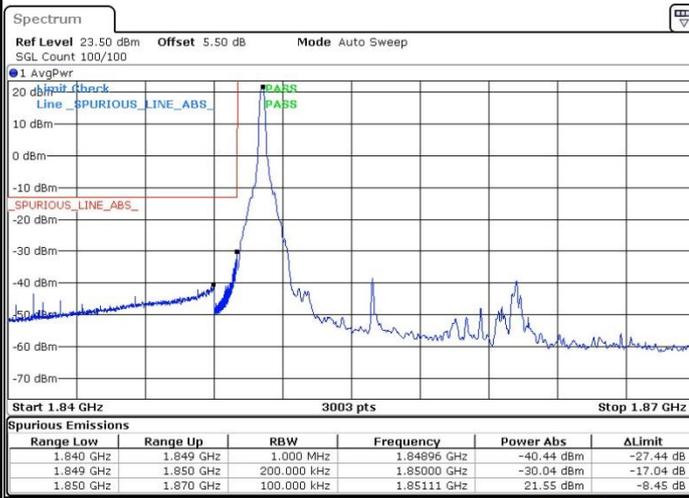


Date: 22 MAY 2021 01:04:54



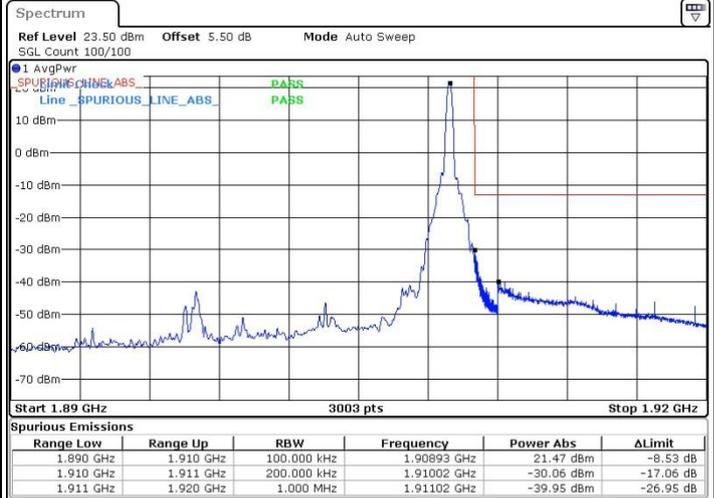
LTE Band 2 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



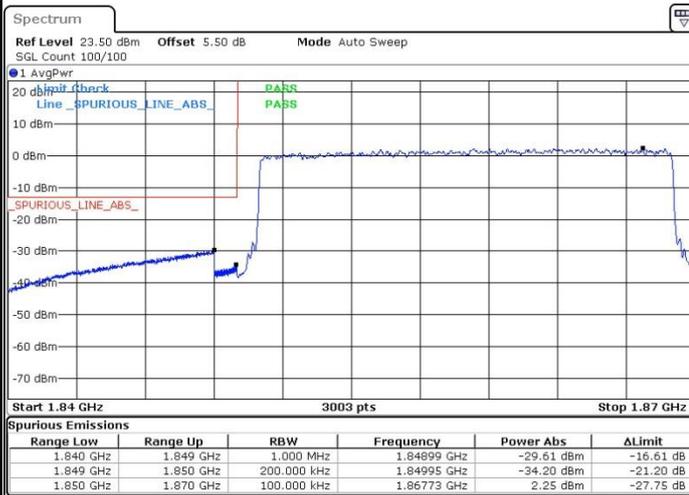
Date: 22 MAY 2021 00:59:14

Highest Band Edge / 1 RB



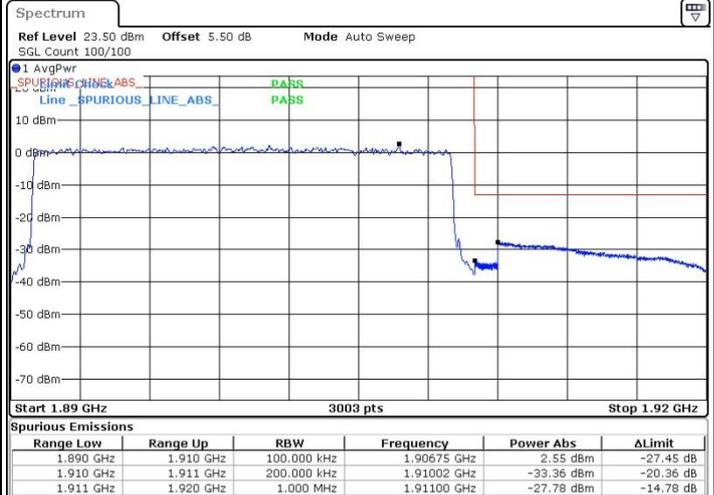
Date: 22 MAY 2021 01:03:46

Lowest Band Edge / Full RB



Date: 22 MAY 2021 01:01:30

Highest Band Edge / Full RB

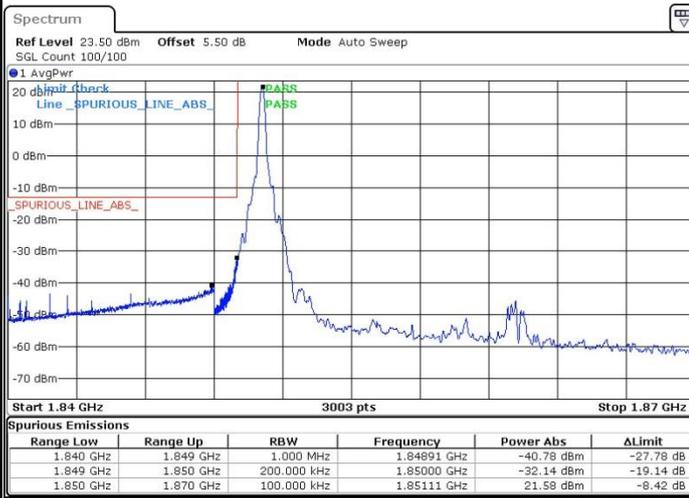


Date: 22 MAY 2021 01:06:02



LTE Band 2 / 20MHz / 64QAM

Lowest Band Edge / 1 RB



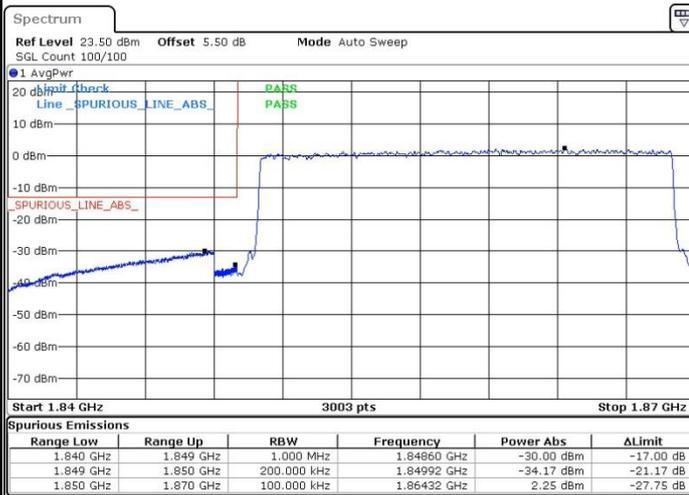
Date: 22.MAY.2021 01:29:49

Highest Band Edge / 1 RB



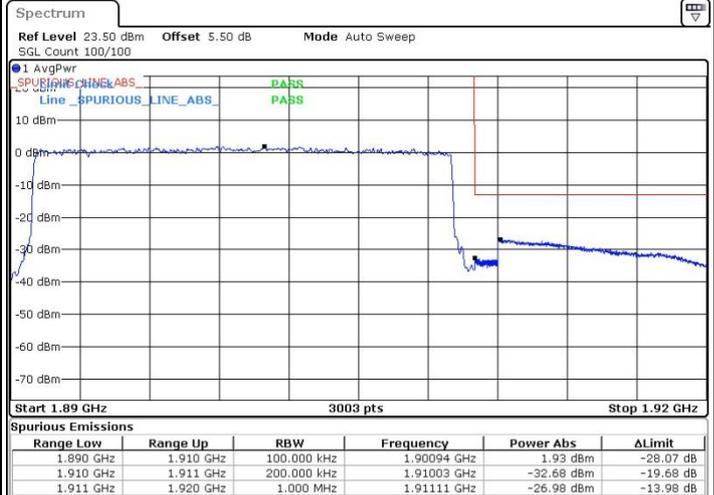
Date: 22.MAY.2021 01:33:13

Lowest Band Edge / Full RB



Date: 22.MAY.2021 01:30:57

Highest Band Edge / Full RB



Date: 22.MAY.2021 01:32:05

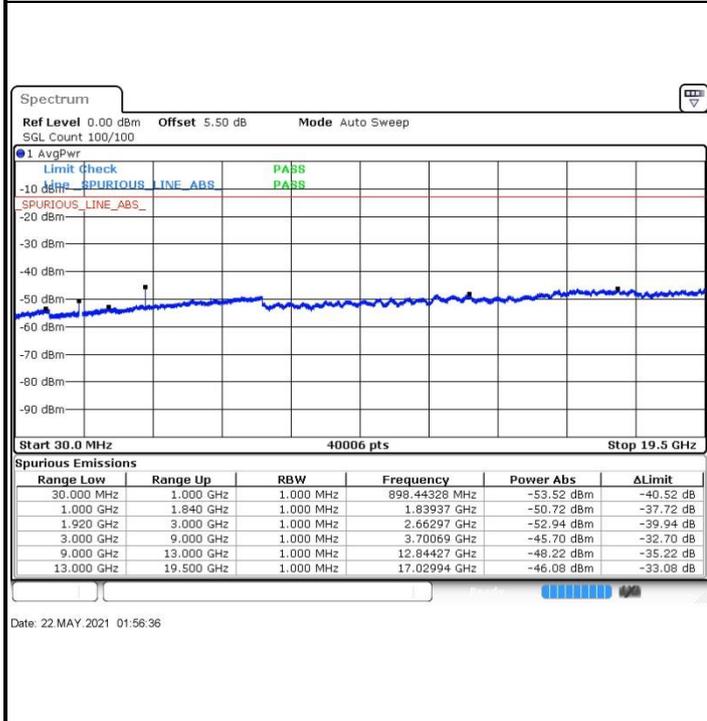


**Conducted Spurious Emission**

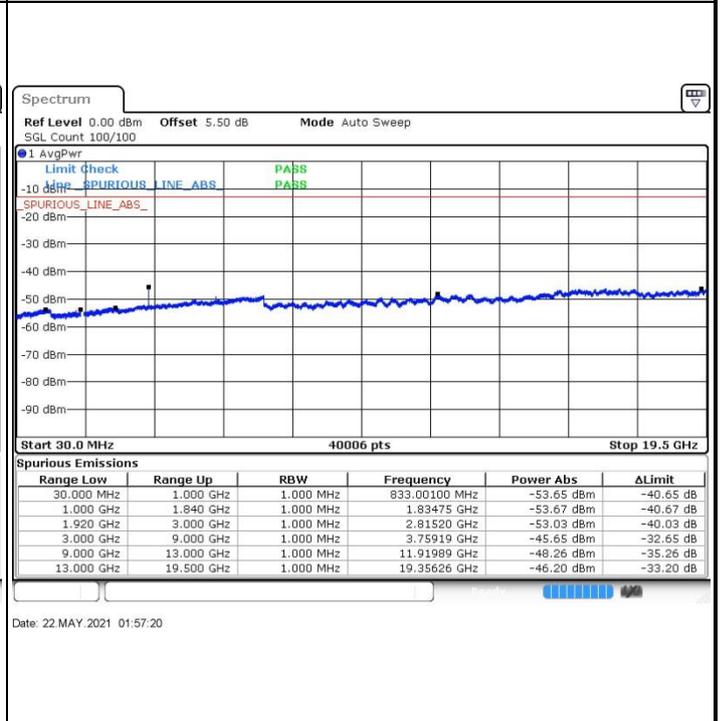


**LTE Band 2 / 1.4MHz**

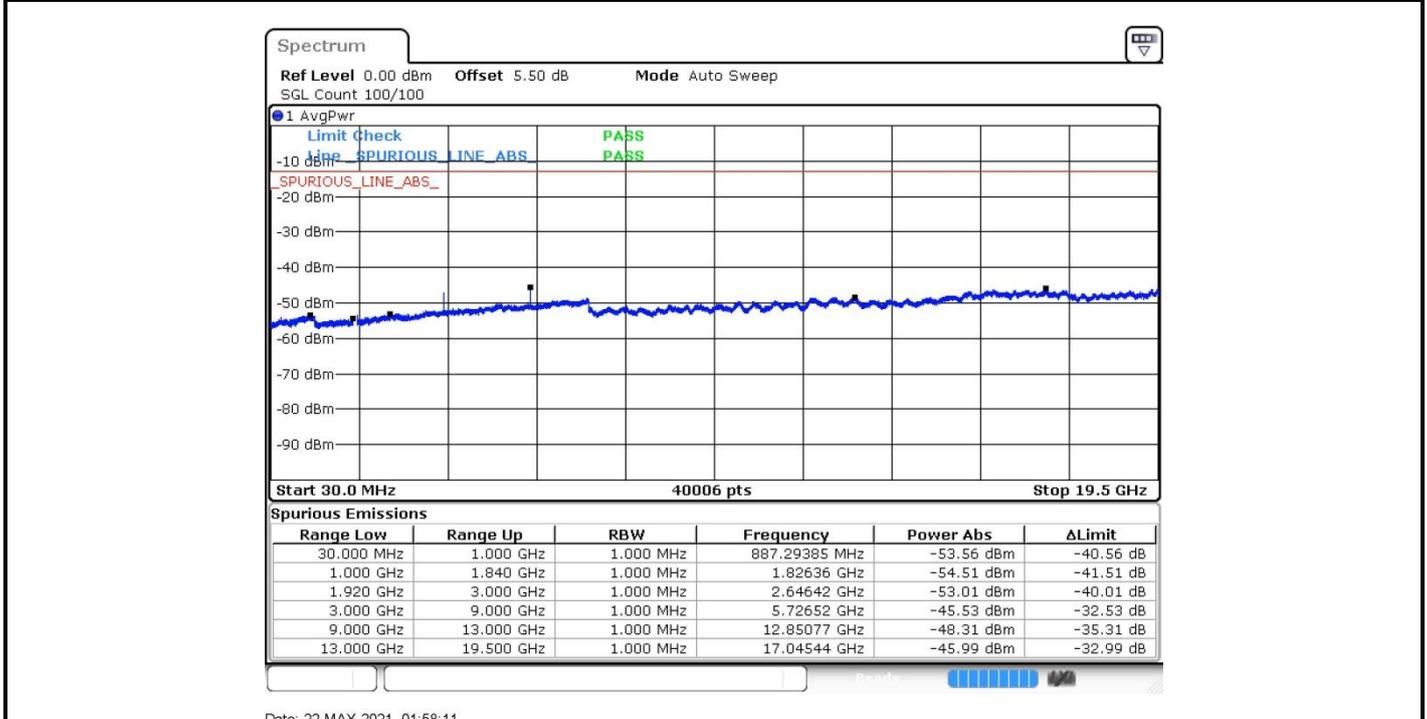
**Lowest Channel / QPSK**



**Middle Channel / QPSK**



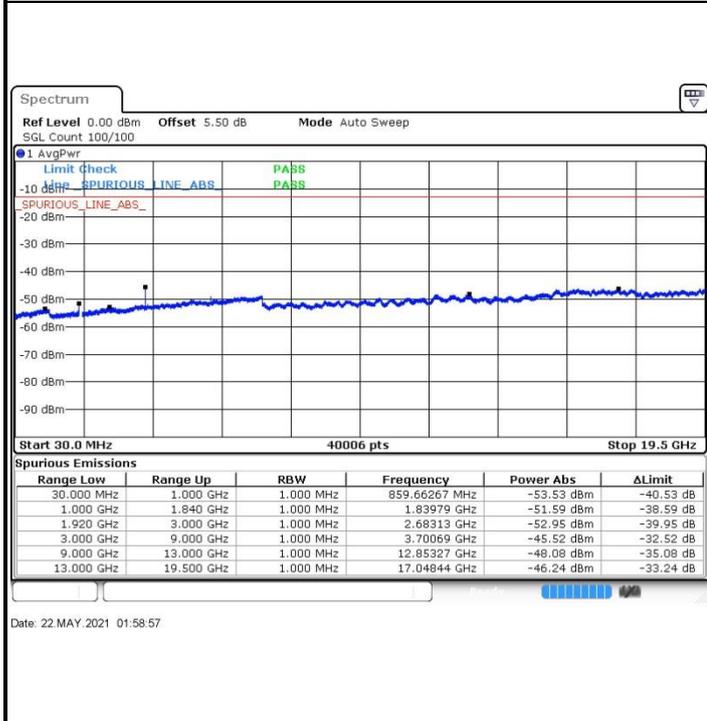
**Highest Channel / QPSK**



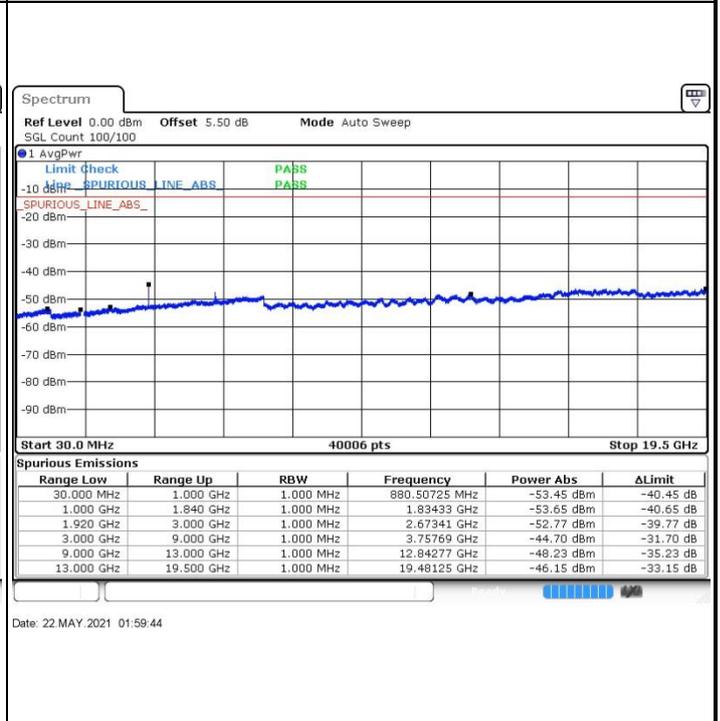


**LTE Band 2 / 3MHz**

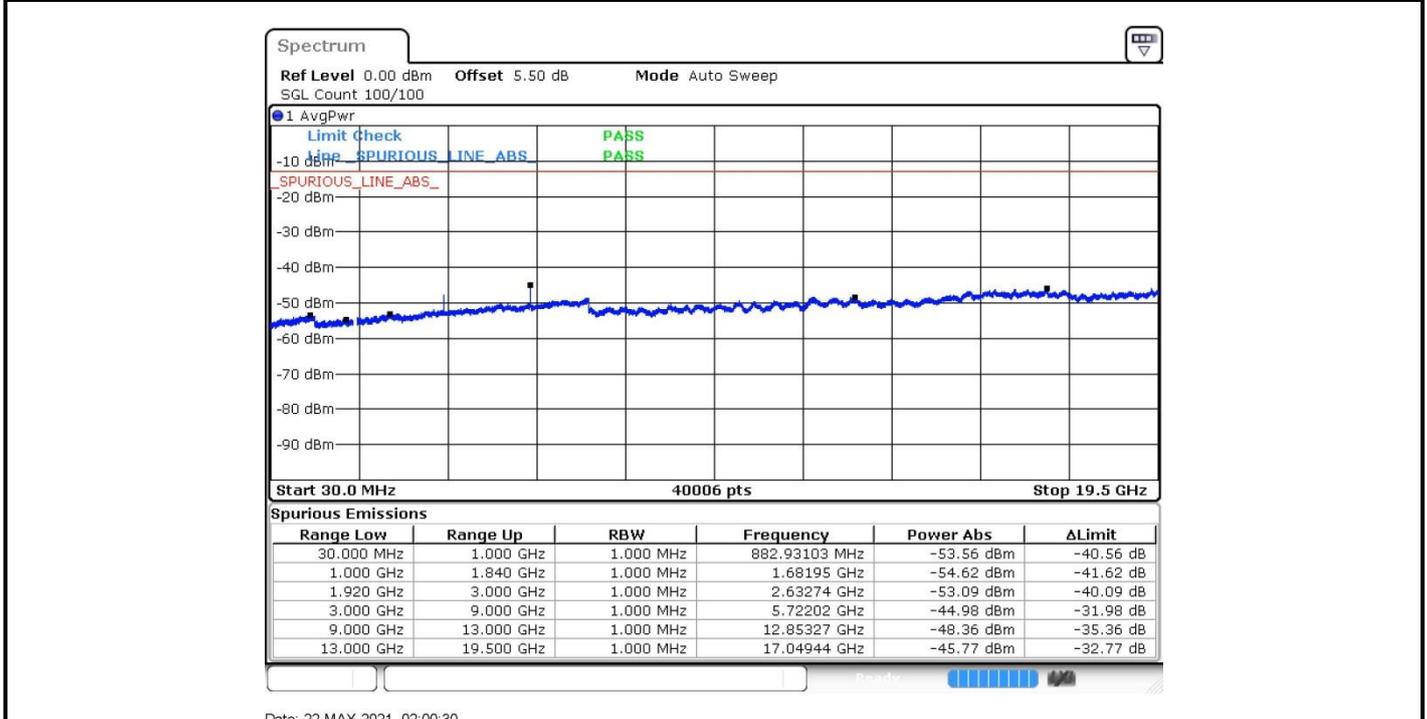
**Lowest Channel / QPSK**



**Middle Channel / QPSK**



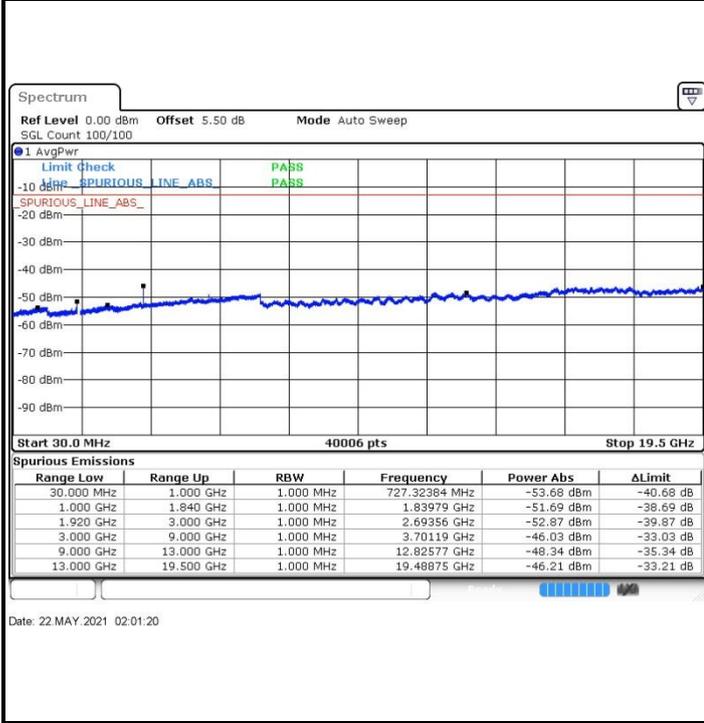
**Highest Channel / QPSK**



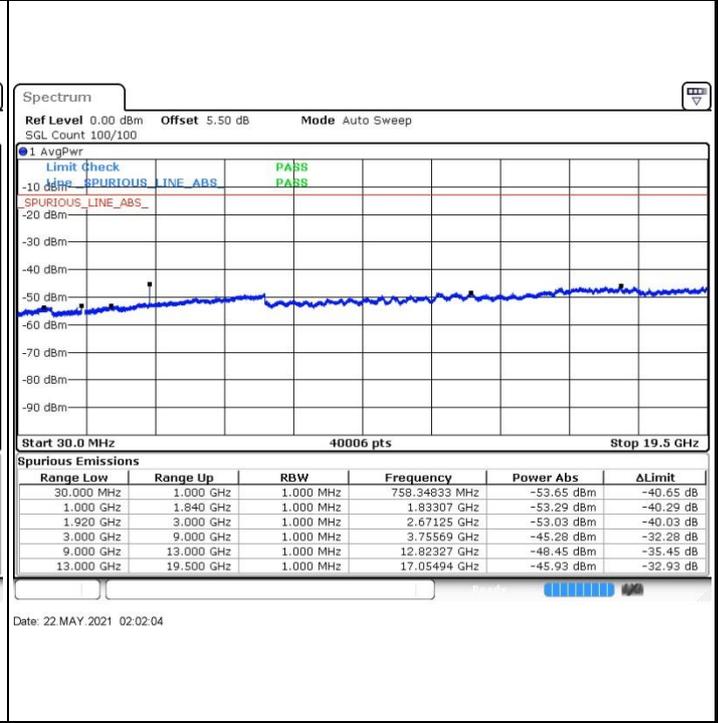


**LTE Band 2 / 5MHz**

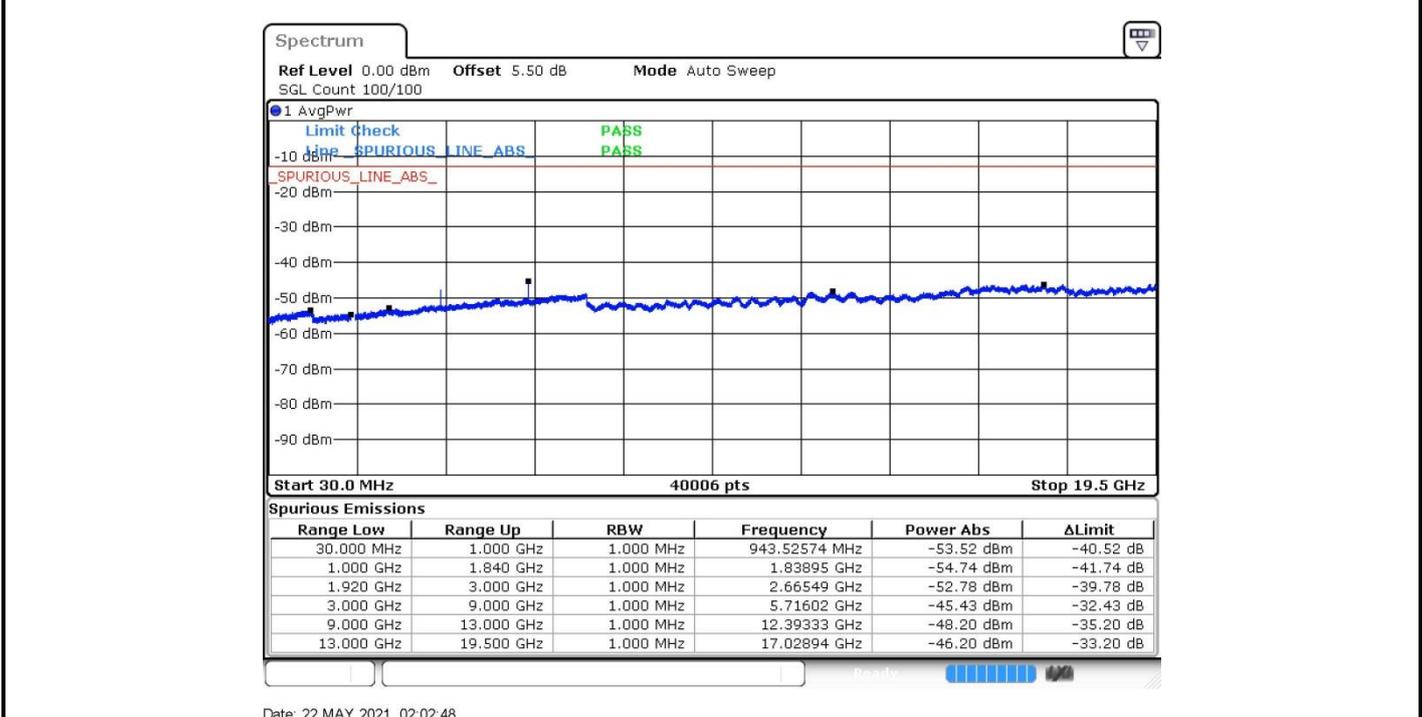
**Lowest Channel / QPSK**



**Middle Channel / QPSK**



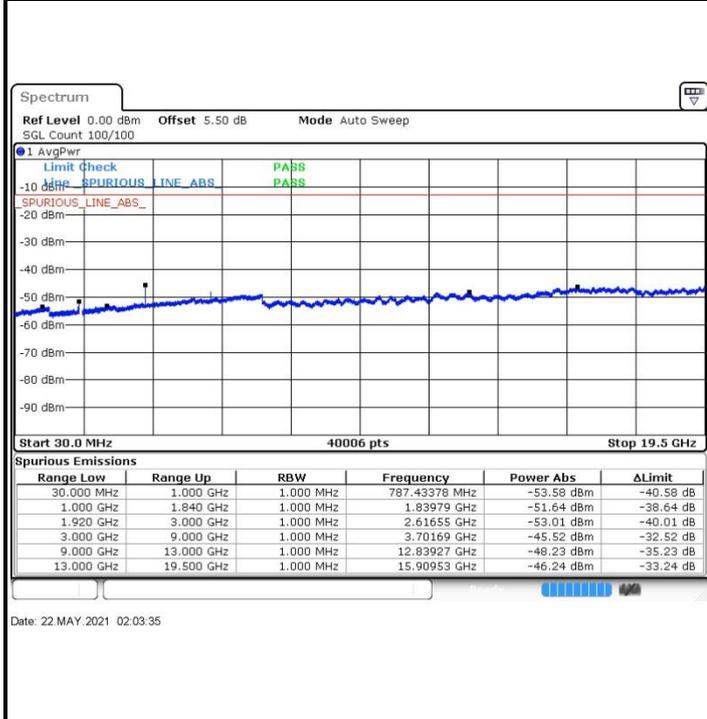
**Highest Channel / QPSK**



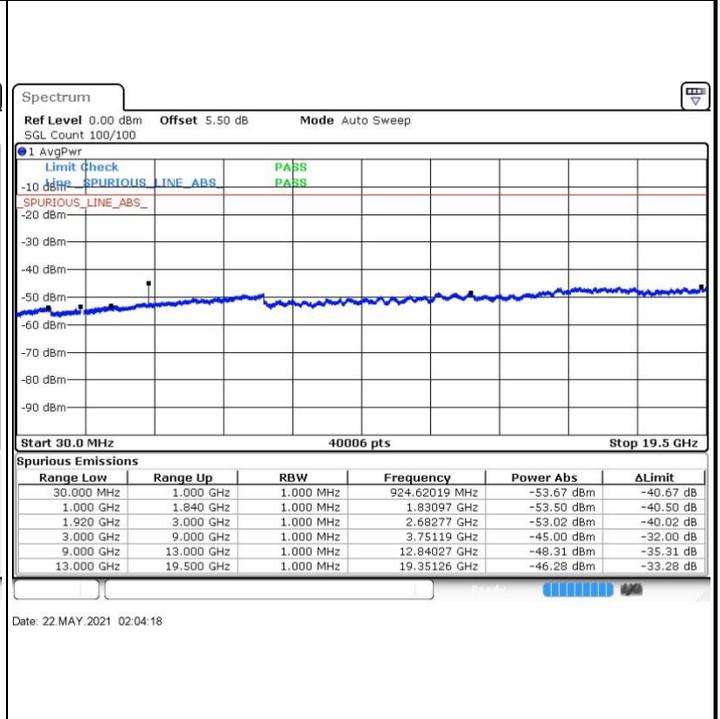


**LTE Band 2 / 10MHz**

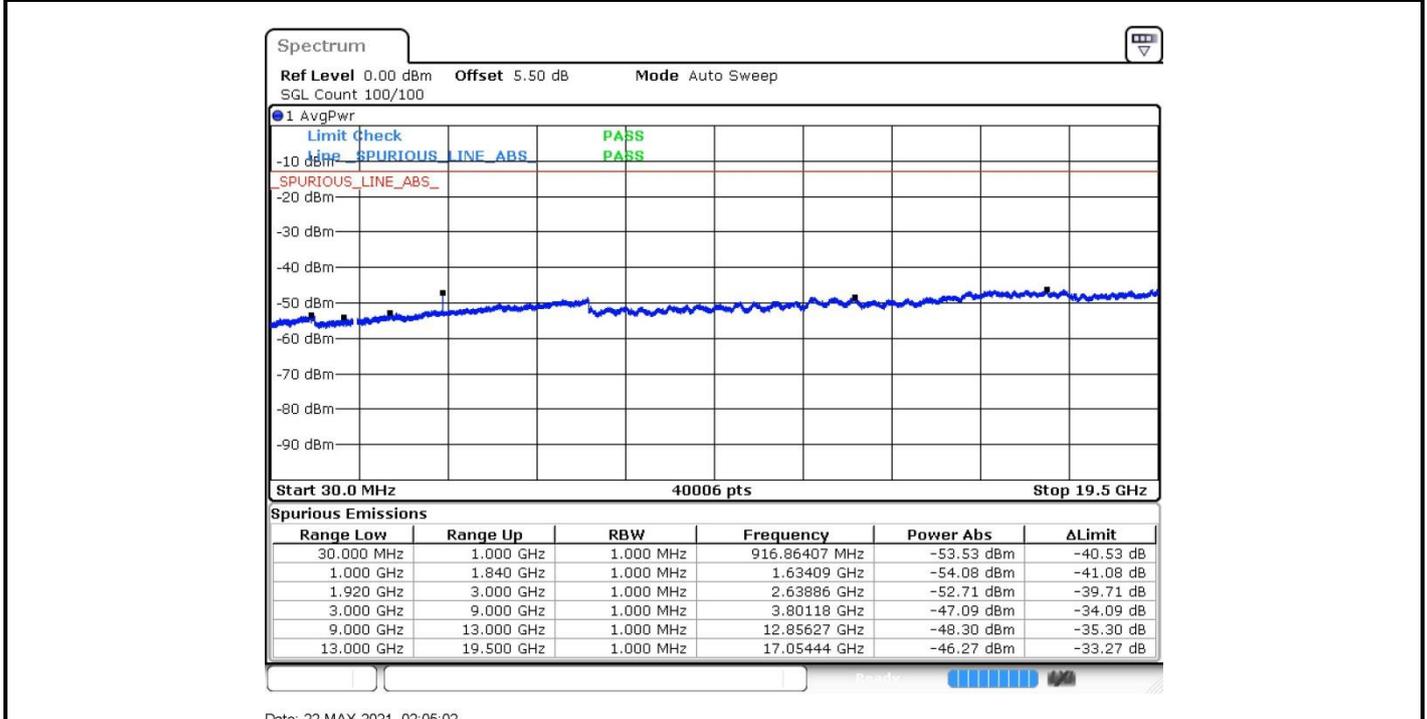
**Lowest Channel / QPSK**



**Middle Channel / QPSK**



**Highest Channel / QPSK**

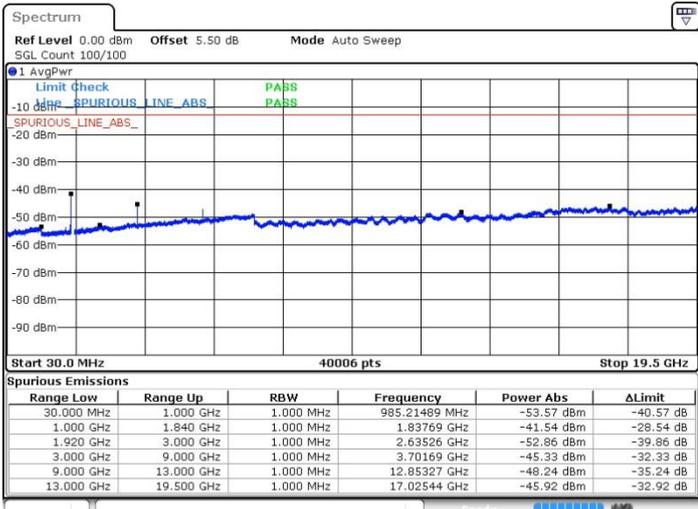




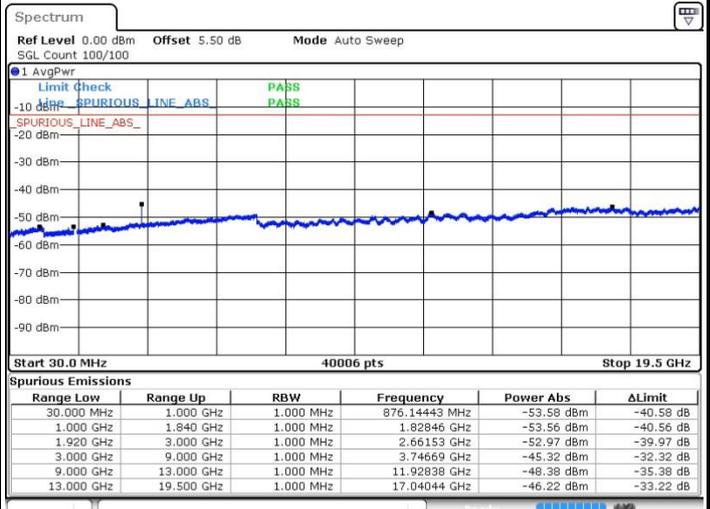
LTE Band 2 / 15MHz

Lowest Channel / QPSK

Middle Channel / QPSK

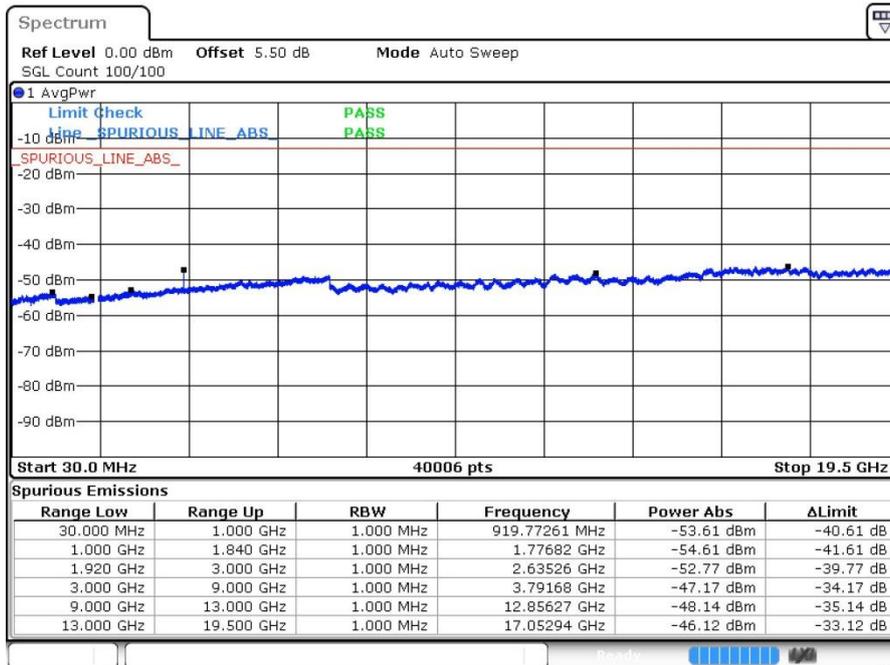


Date: 22.MAY.2021 02:05:52



Date: 22.MAY.2021 02:06:37

Highest Channel / QPSK

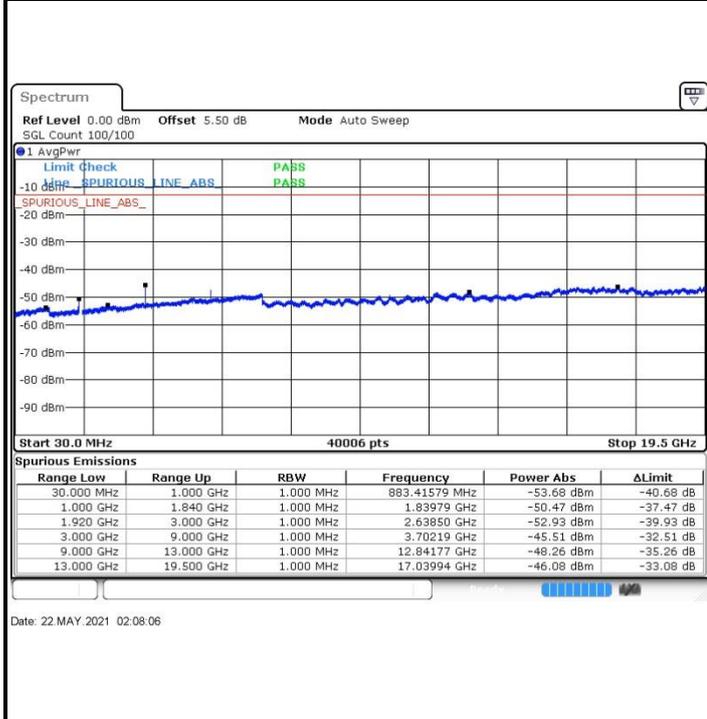


Date: 22.MAY.2021 02:07:20

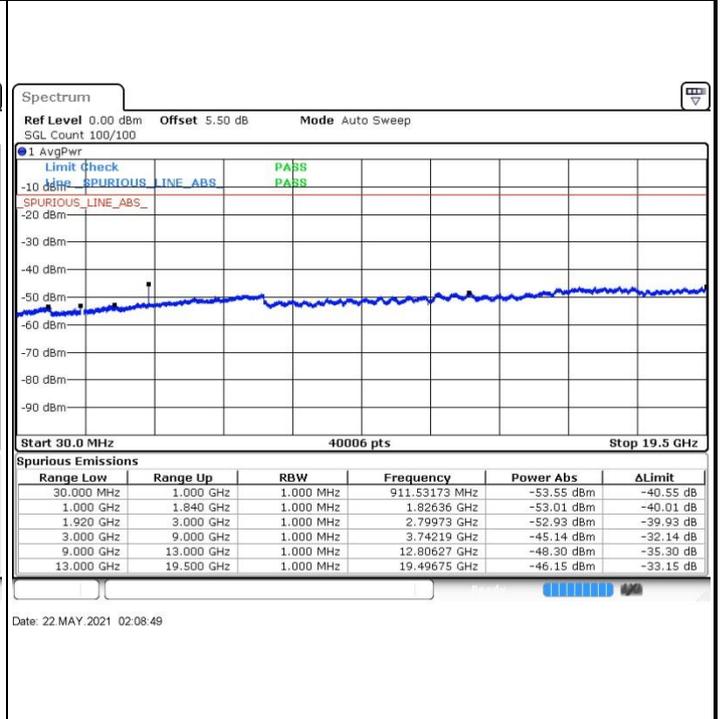


**LTE Band 2 / 20MHz**

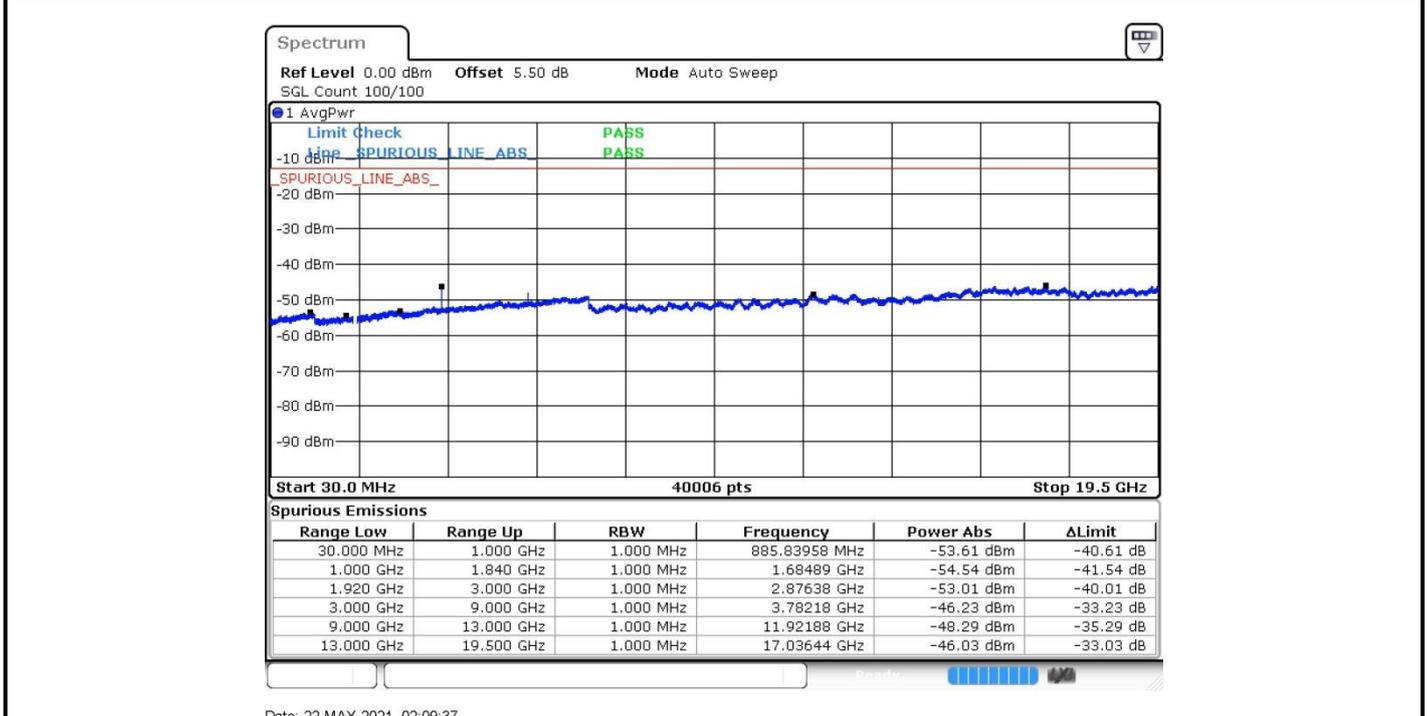
**Lowest Channel / QPSK**



**Middle Channel / QPSK**



**Highest Channel / QPSK**





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	0.0006	PASS
40	Normal Voltage	0.0004	
30	Normal Voltage	0.0015	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0005	
0	Normal Voltage	0.0017	
-10	Normal Voltage	0.0021	
-20	Normal Voltage	0.0001	
-30	Normal Voltage	0.0022	
20	Maximum Voltage	0.0003	
20	Normal Voltage	0.0002	
20	Battery End Point	0.0016	

Note:

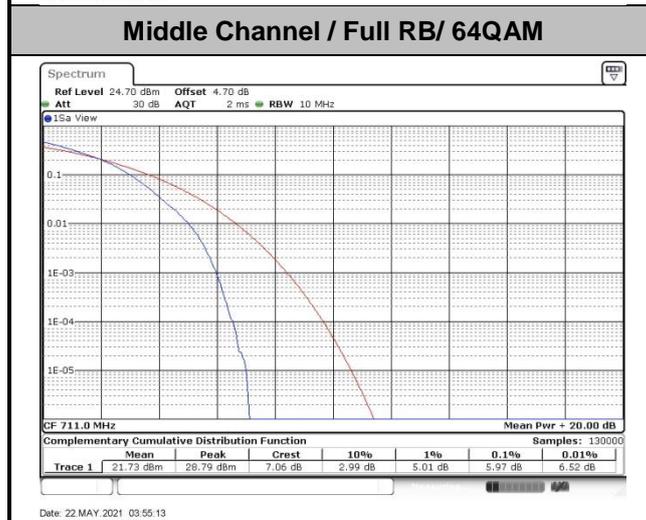
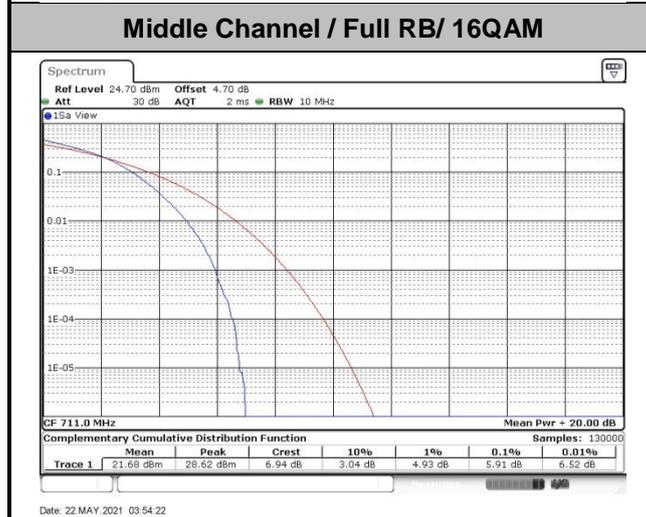
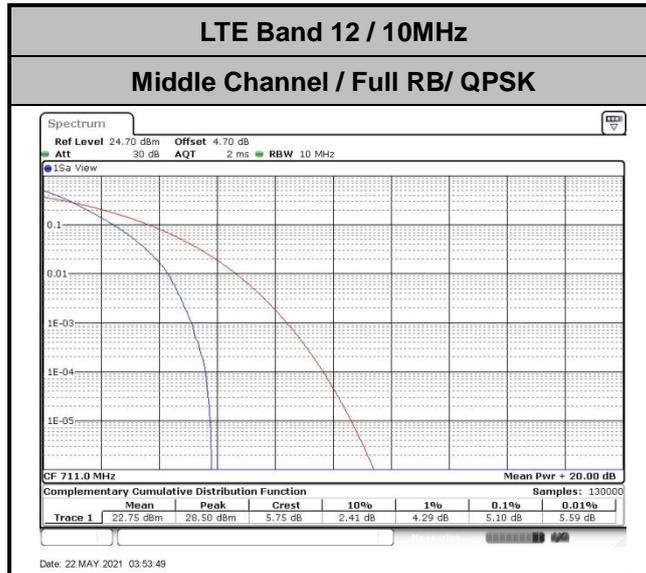
1. Normal Voltage =7.74 V. ; Battery End Point (BEP) =6.9 V. ; Maximum Voltage =8.9 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



## LTE Band 12

### Peak-to-Average Ratio

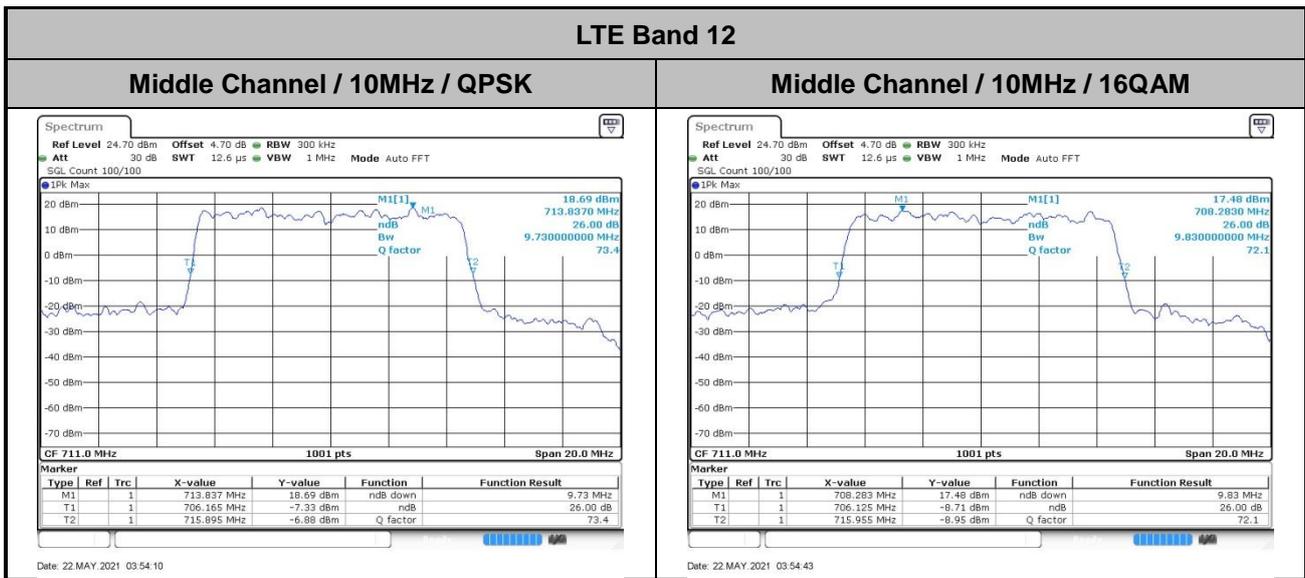
Mode	LTE Band 12 / 10MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	5.10	5.91	5.97	<b>PASS</b>





## 26dB Bandwidth

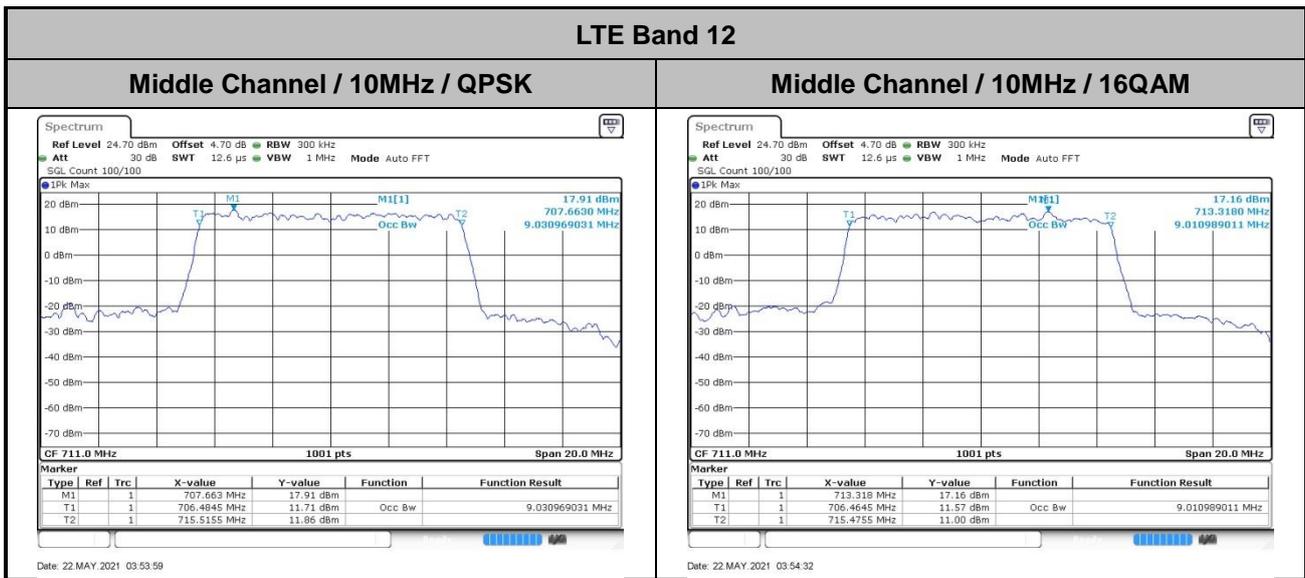
<b>Mode</b>	<b>LTE Band 12 : 26dB BW(MHz)</b>	
<b>BW</b>	<b>10MHz</b>	
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>
<b>Middle CH</b>	9.73	9.83





## Occupied Bandwidth

<b>Mode</b>	<b>LTE Band 12 : 99%OBW(MHz)</b>	
<b>BW</b>	<b>10MHz</b>	
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>
<b>Middle CH</b>	9.03	9.01



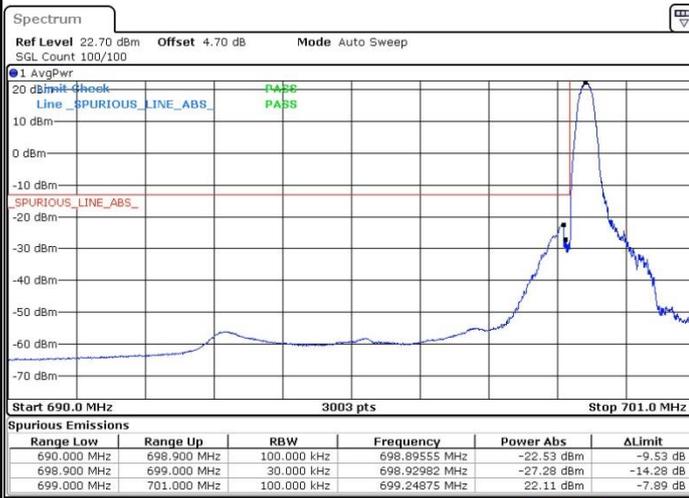


## **Conducted Band Edge**



LTE Band 12 / 1.4MHz / QPSK

Lowest Band Edge / 1RB



Date: 22 MAY 2021 02:53:37

Highest Band Edge / 1RB



Date: 22 MAY 2021 02:59:17

Lowest Band Edge / Full RB



Date: 22 MAY 2021 02:54:45

Highest Band Edge / Full RB



Date: 22 MAY 2021 02:58:09



LTE Band 12 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



Date: 22 MAY 2021 02:52:29

Highest Band Edge / 1 RB



Date: 22 MAY 2021 03:00:25

Lowest Band Edge / Full RB



Date: 22 MAY 2021 02:55:53

Highest Band Edge / Full RB



Date: 22 MAY 2021 02:57:01



LTE Band 12 / 1.4MHz / 64QAM

Lowest Band Edge / 1 RB



Date: 22 MAY 2021 03:31:11

Highest Band Edge / 1 RB



Date: 22 MAY 2021 03:28:55

Lowest Band Edge / Full RB



Date: 22 MAY 2021 03:32:19

Highest Band Edge / Full RB



Date: 22 MAY 2021 03:30:03