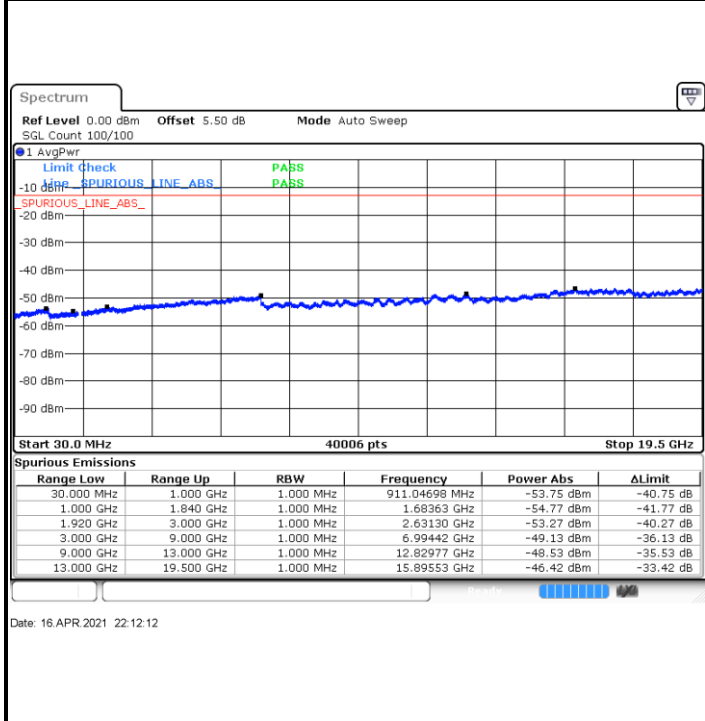


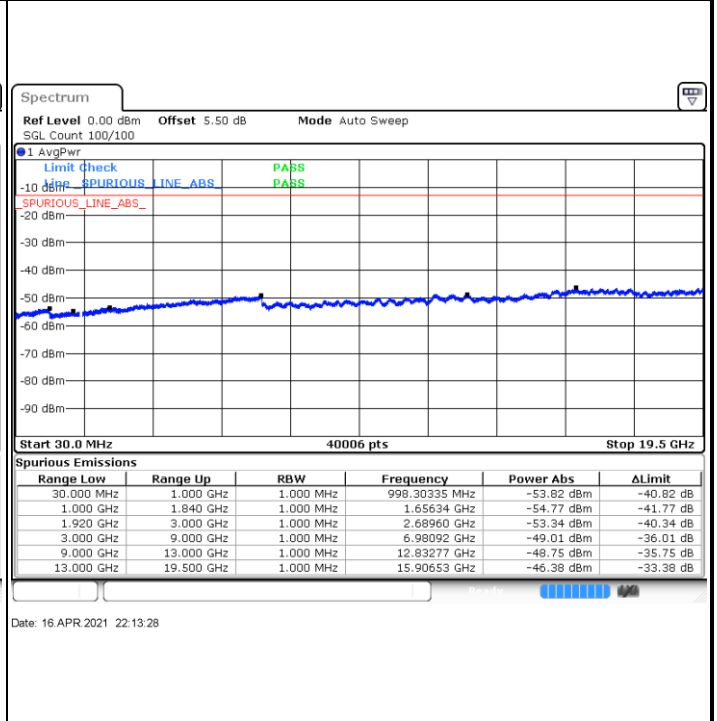


**LTE Band 2 / 5MHz**

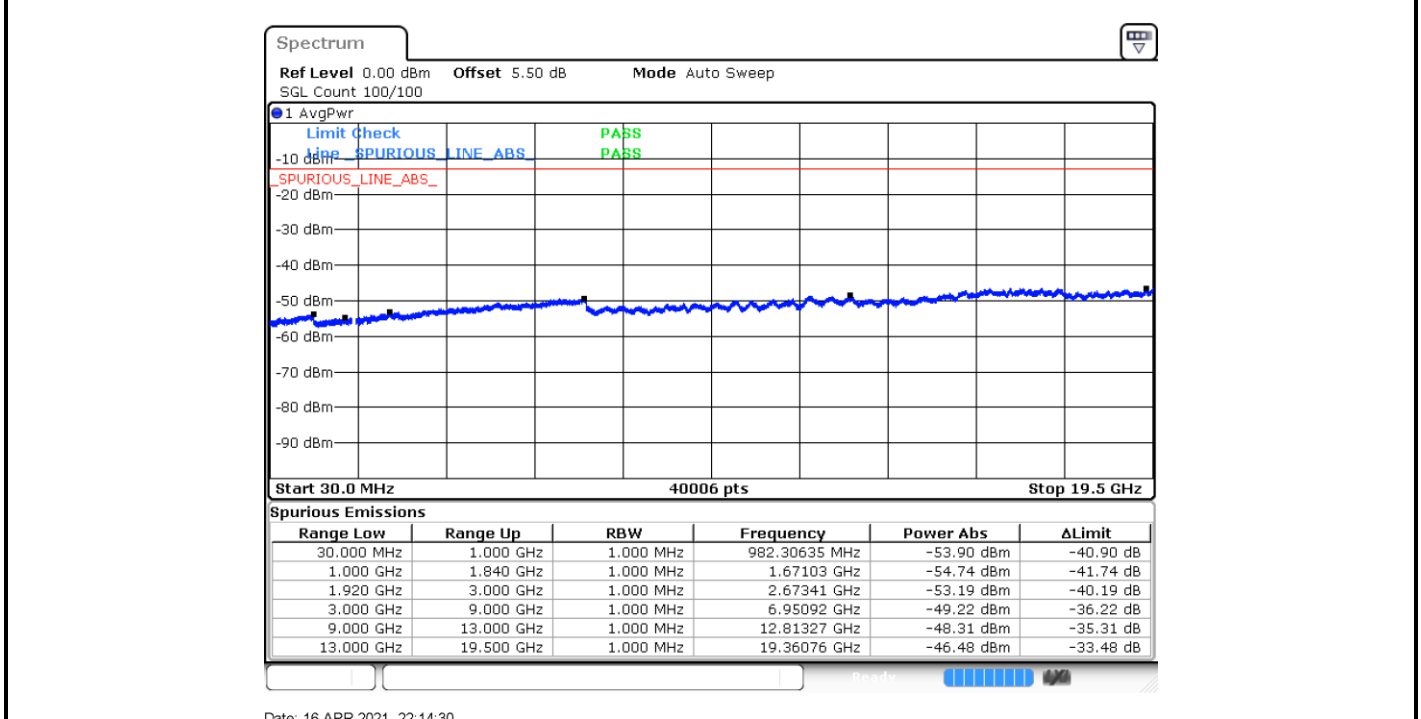
**Lowest Channel / QPSK**



**Middle Channel / QPSK**



**Highest Channel / QPSK**

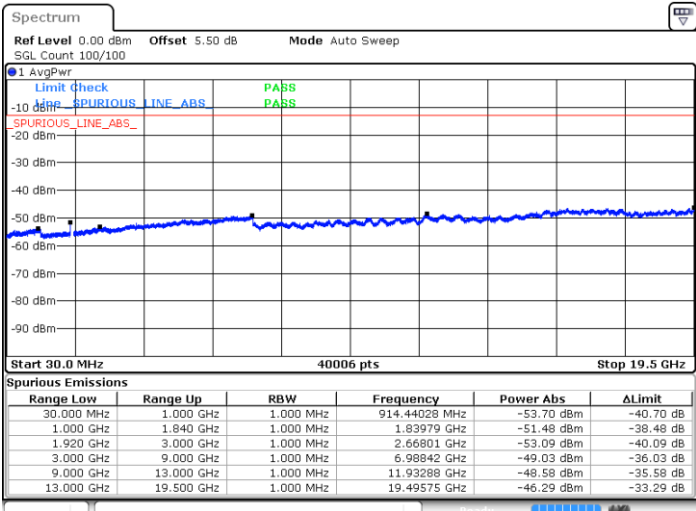




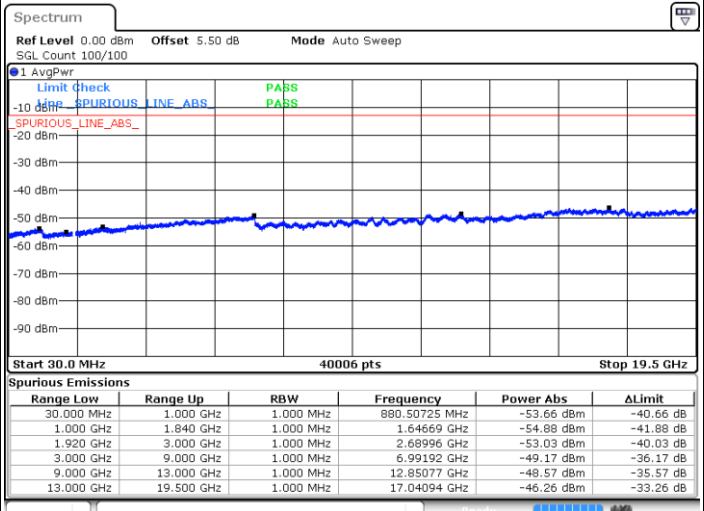
LTE Band 2 / 10MHz

Lowest Channel / QPSK

Middle Channel / QPSK

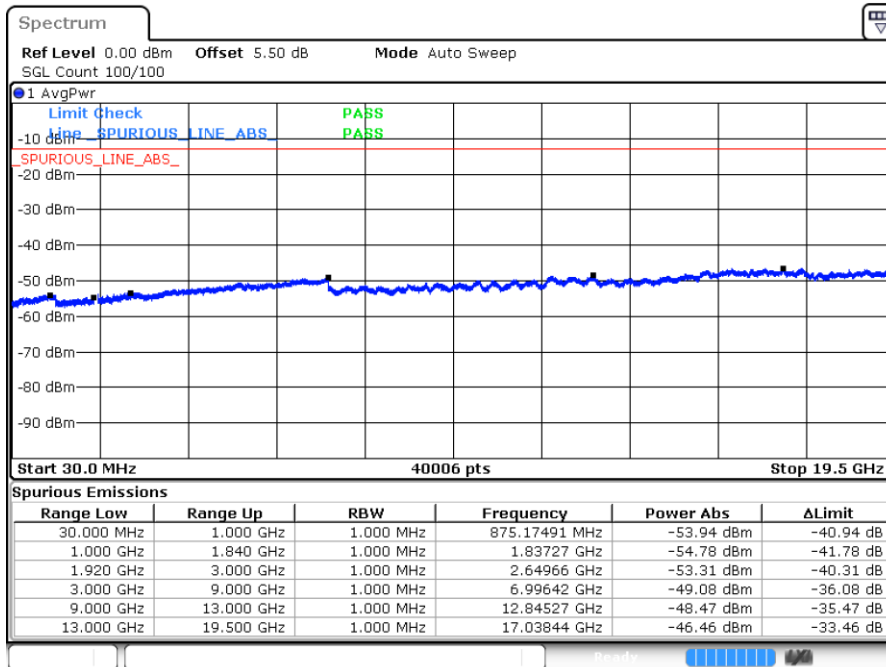


Date: 16 APR 2021 22:16:38



Date: 16 APR 2021 22:17:22

Highest Channel / QPSK

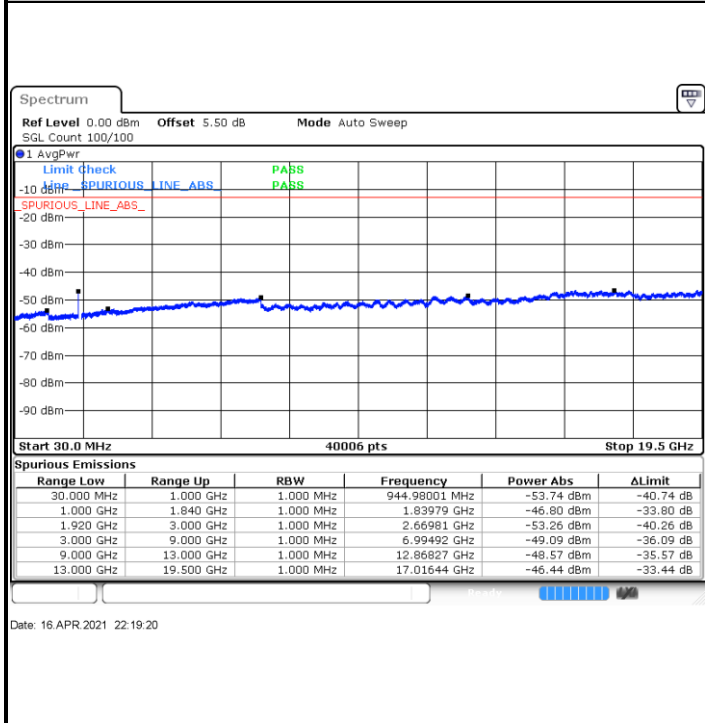


Date: 16 APR 2021 22:18:11

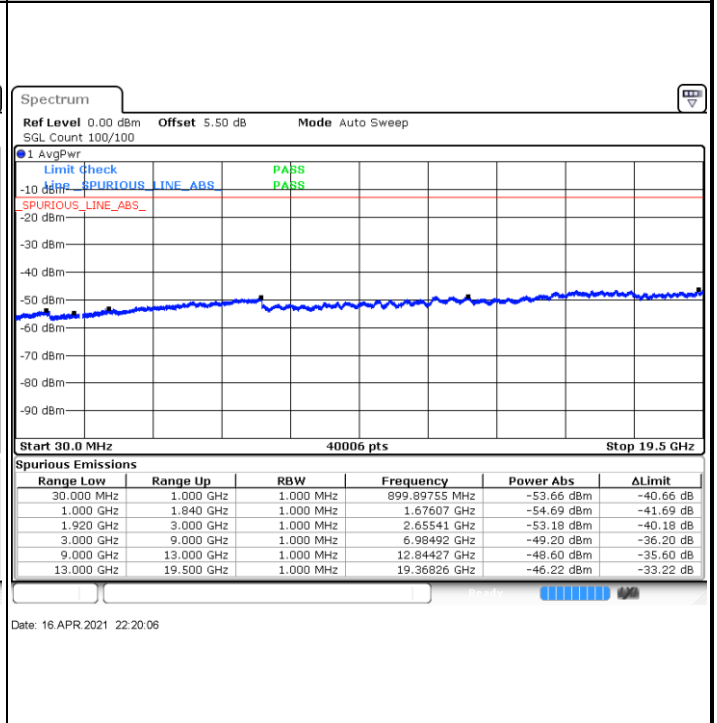


**LTE Band 2 / 15MHz**

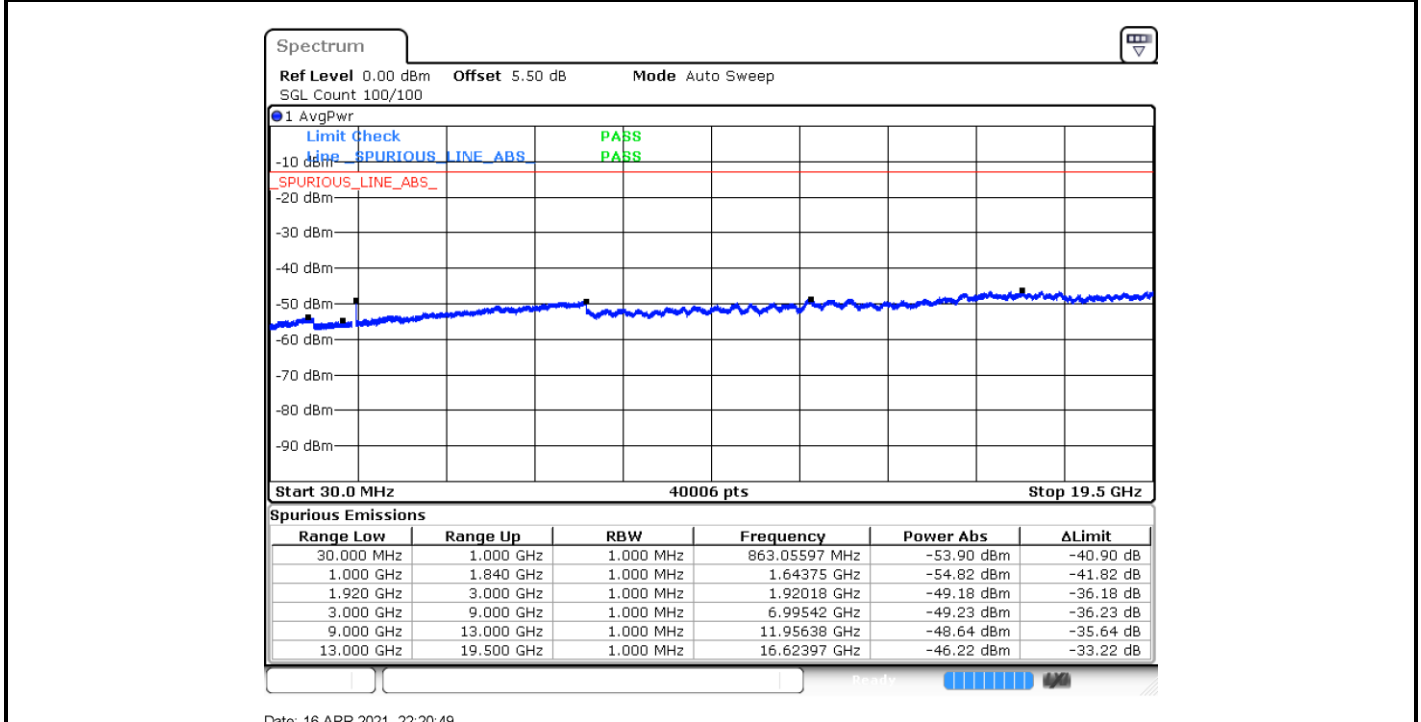
**Lowest Channel / QPSK**



**Middle Channel / QPSK**



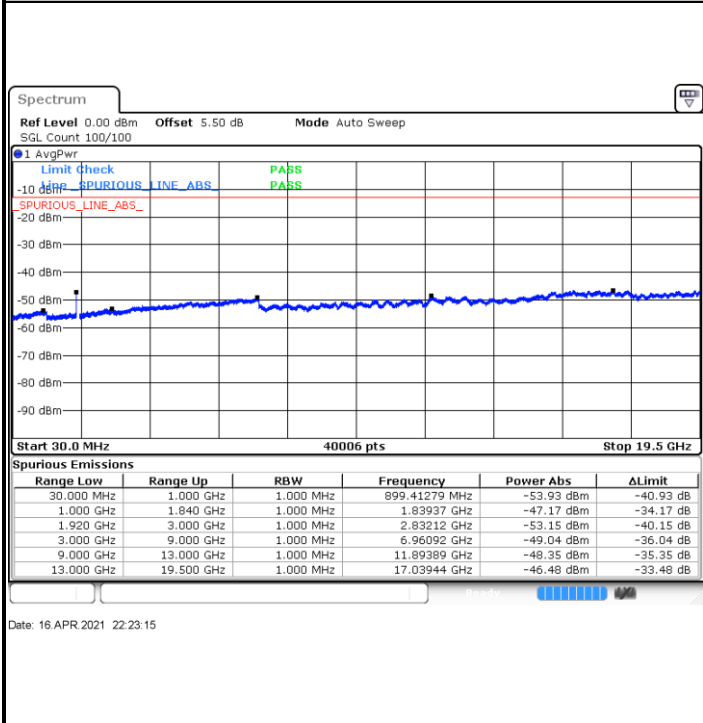
**Highest Channel / QPSK**



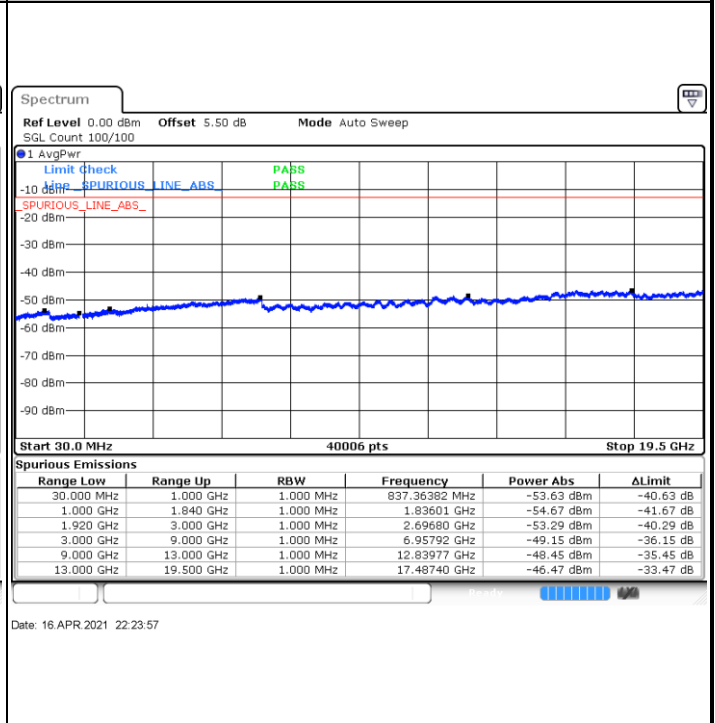


**LTE Band 2 / 20MHz**

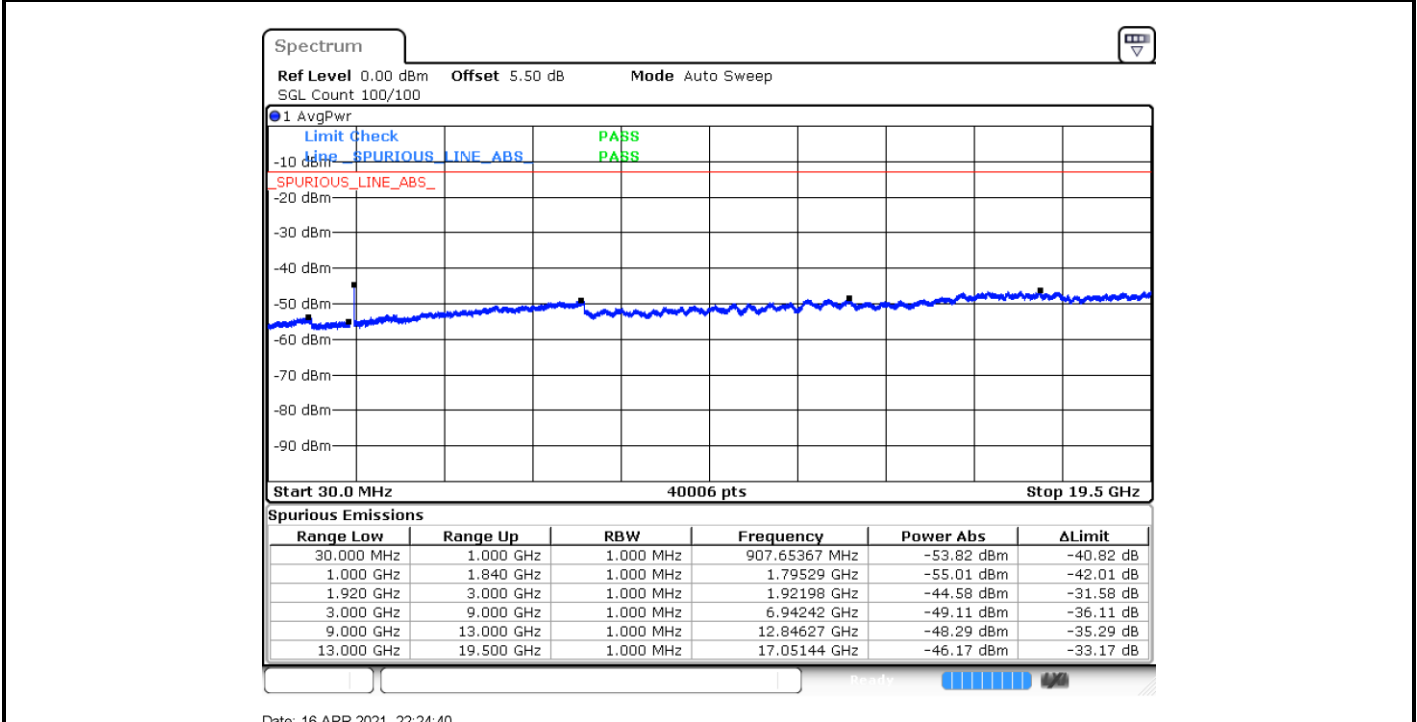
**Lowest Channel / QPSK**



**Middle Channel / QPSK**



**Highest Channel / QPSK**





Frequency Stability

Test Conditions		LTE Band 2 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0006	PASS
40	Normal Voltage	0.0005	
30	Normal Voltage	0.0008	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0005	
0	Normal Voltage	0.0016	
-10	Normal Voltage	0.0020	
-20	Normal Voltage	0.0000	
-30	Normal Voltage	0.0022	
20	Maximum Voltage	0.0002	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0020	

Note:

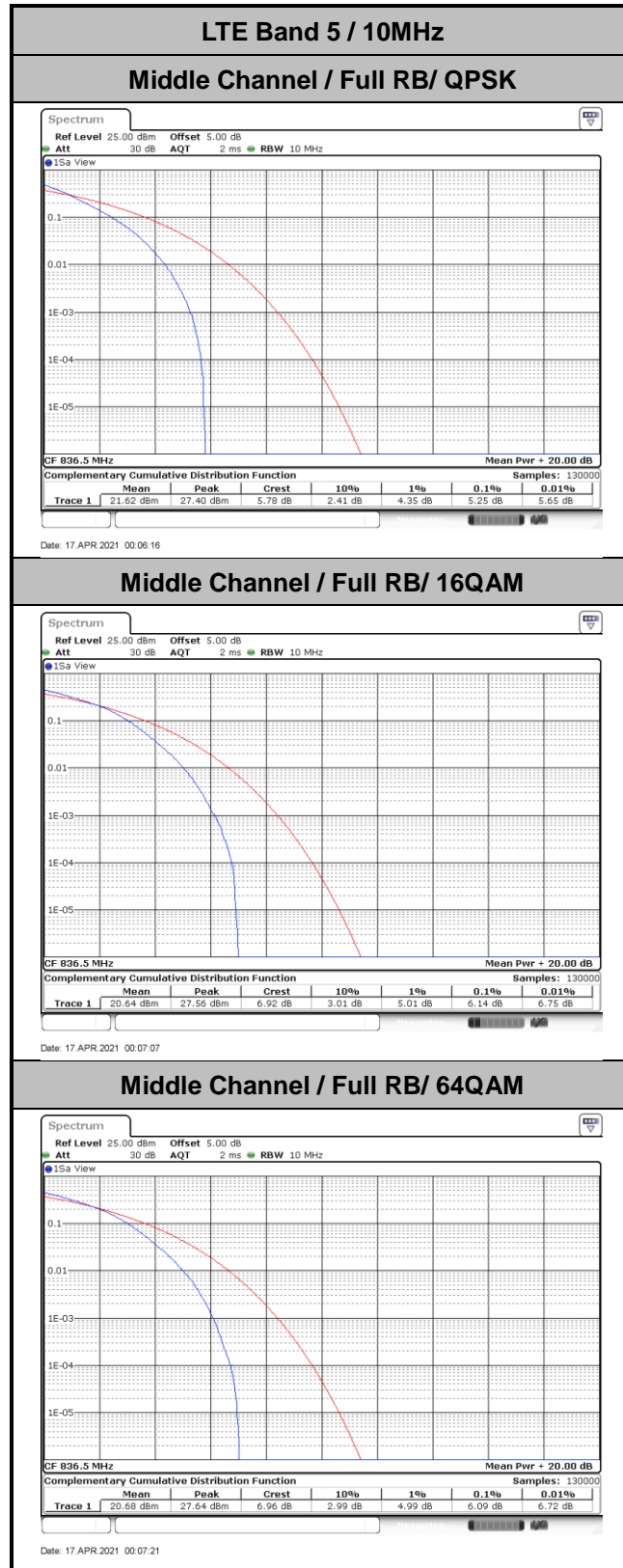
1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.6V. ; Maximum Voltage =4.35 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



## LTE Band 5

### Peak-to-Average Ratio

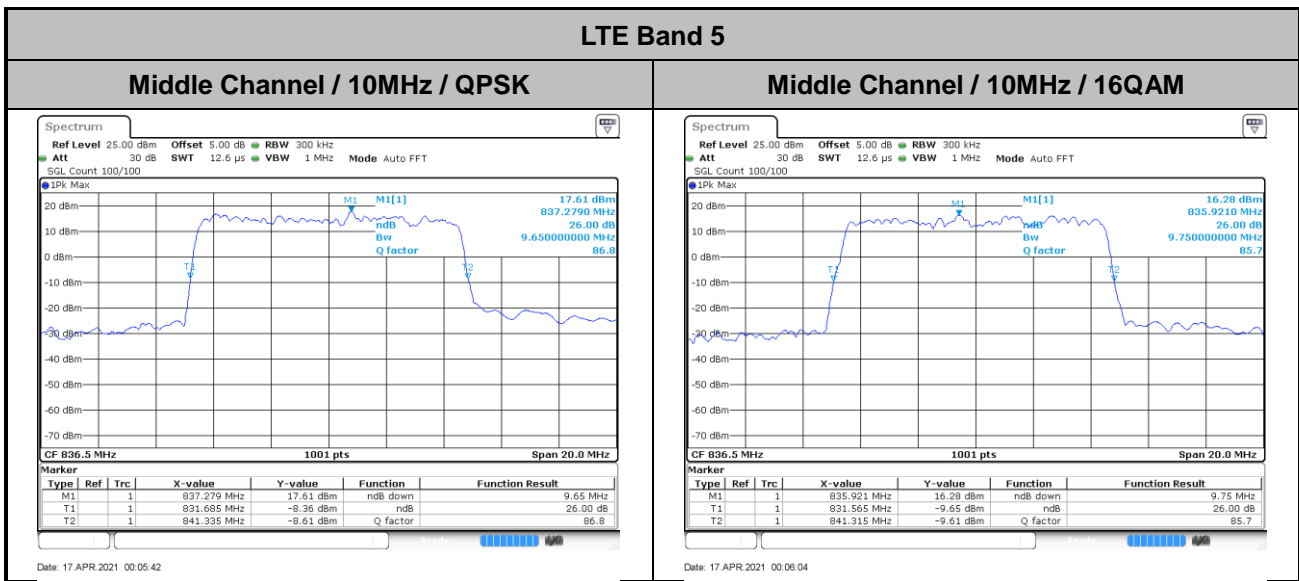
Mode	LTE Band 5 / 10MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	5.25	6.14	6.09	<b>PASS</b>





## 26dB Bandwidth

<b>Mode</b>	<b>LTE Band 5 : 26dB BW(MHz)</b>	
<b>BW</b>	<b>10MHz</b>	
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>
<b>Middle CH</b>	9.65	9.75

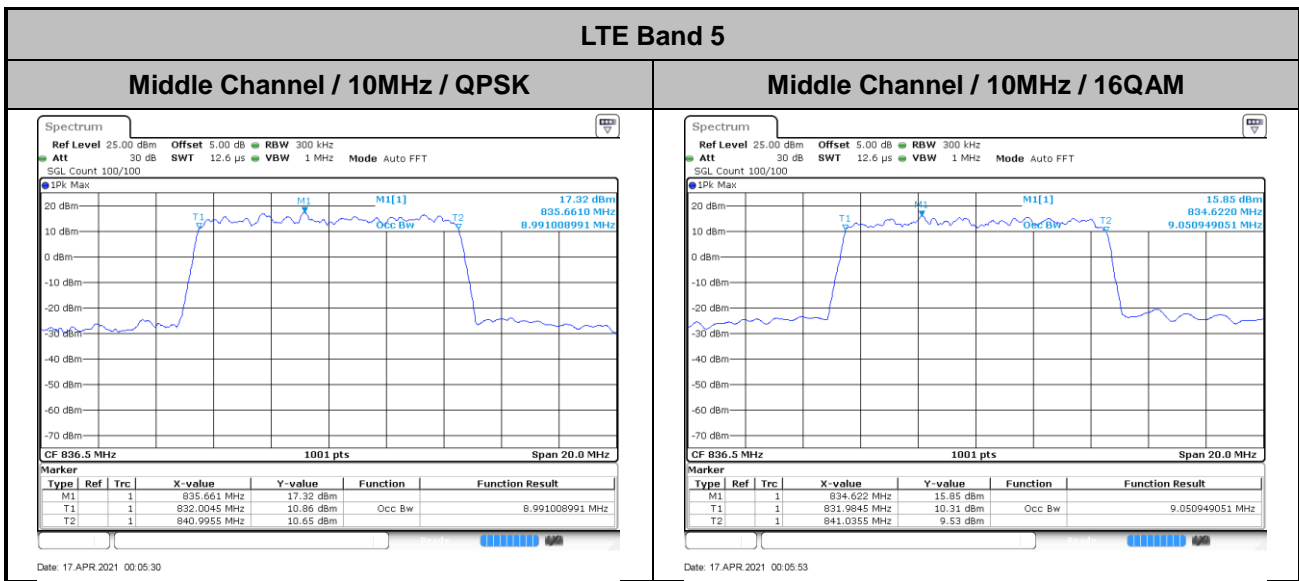






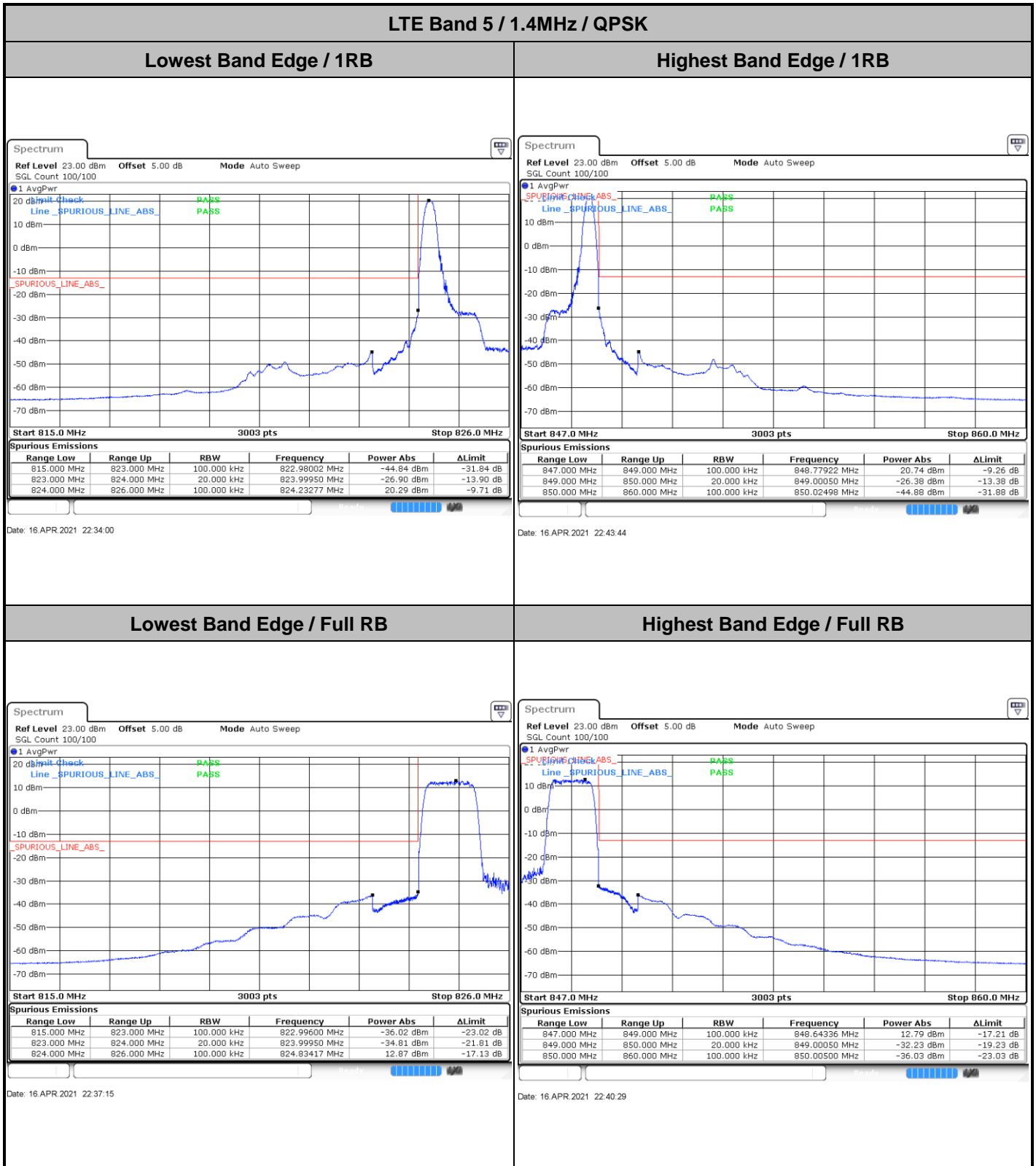
## Occupied Bandwidth

<b>Mode</b>	<b>LTE Band 5 : 99%OBW(MHz)</b>	
<b>BW</b>	<b>10MHz</b>	
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>
<b>Middle CH</b>	<b>8.99</b>	<b>9.05</b>





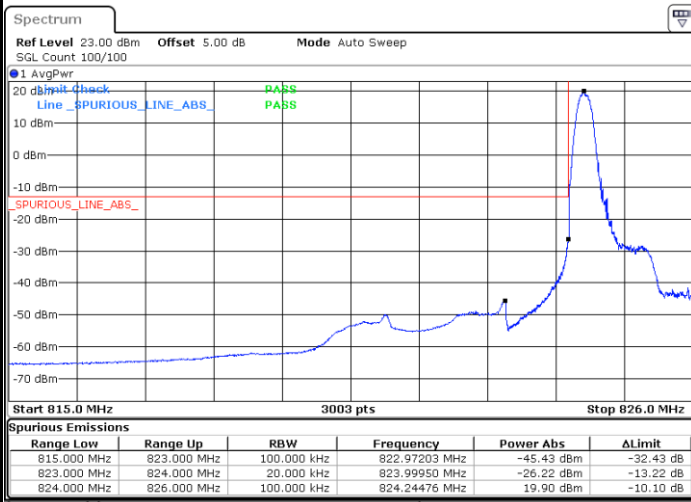
# Conducted Band Edge





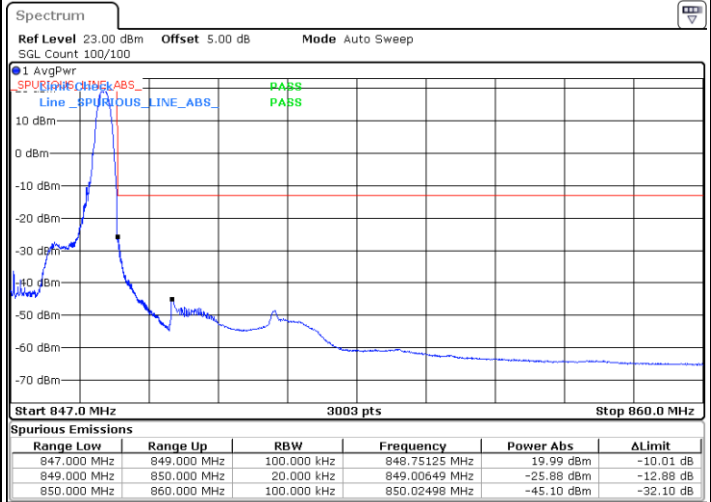
LTE Band 5 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



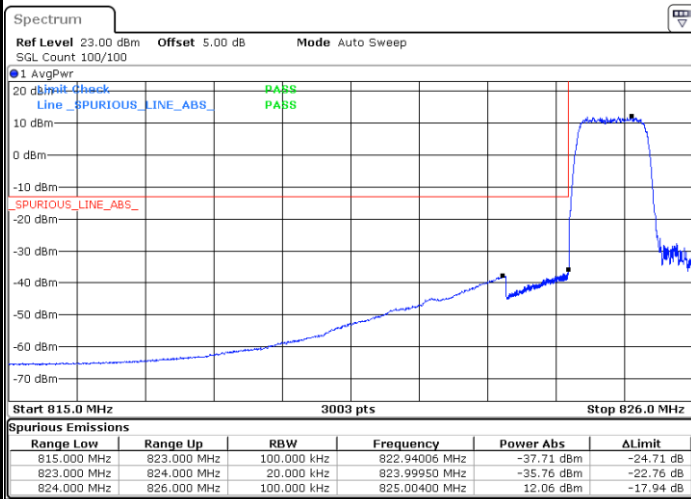
Date: 16 APR 2021 22:35:37

Highest Band Edge / 1 RB



Date: 16 APR 2021 22:45:22

Lowest Band Edge / Full RB



Date: 16 APR 2021 22:38:52

Highest Band Edge / Full RB

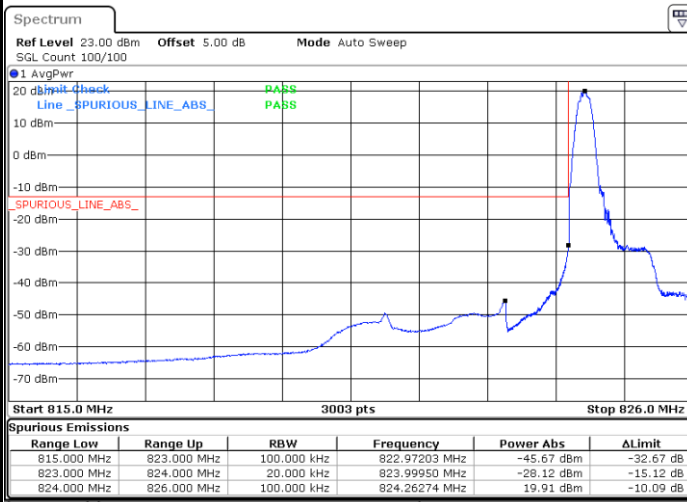


Date: 16 APR 2021 22:42:07



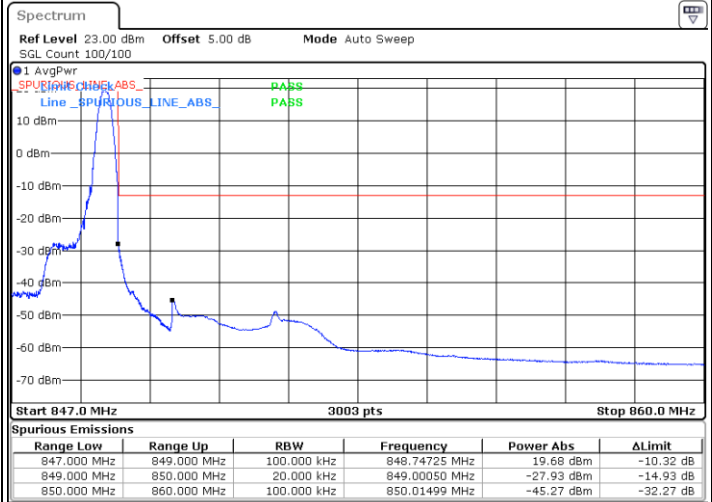
LTE Band 5 / 1.4MHz / 64QAM

Lowest Band Edge / 1 RB



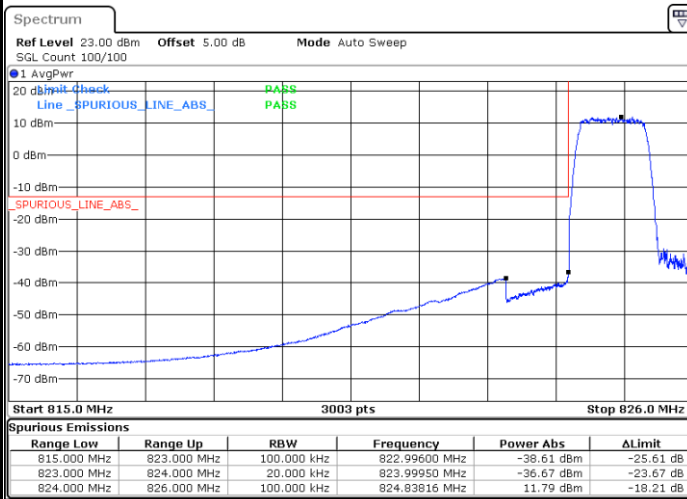
Date: 16 APR 2021 23:25:58

Highest Band Edge / 1 RB



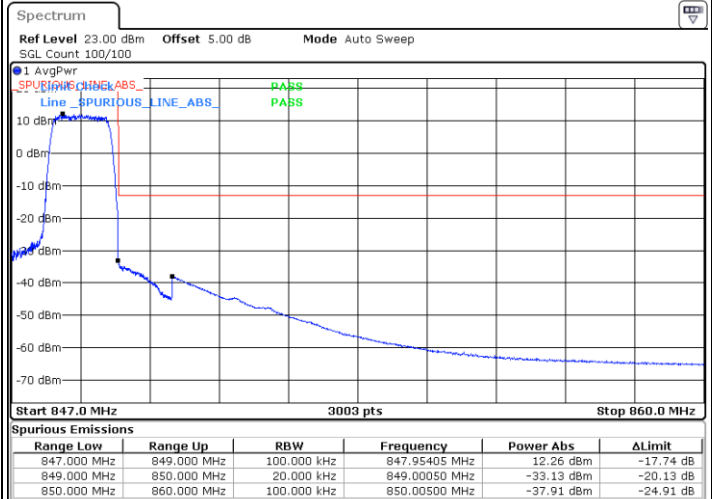
Date: 16 APR 2021 23:32:20

Lowest Band Edge / Full RB



Date: 17 APR 2021 21:36:03

Highest Band Edge / Full RB

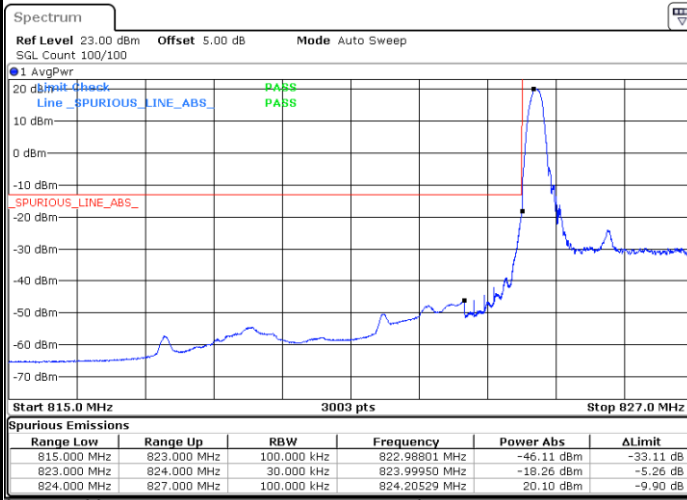


Date: 16 APR 2021 23:30:42



LTE Band 5 / 3MHz / QPSK

Lowest Band Edge / 1RB



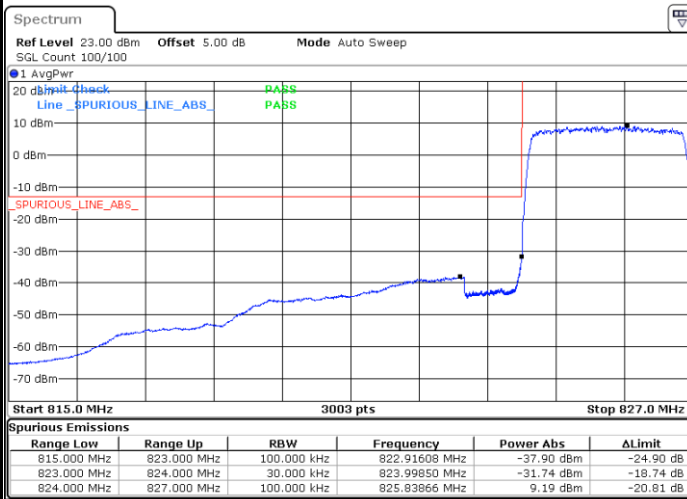
Date: 16 APR 2021 22:46:59

Highest Band Edge / 1 RB



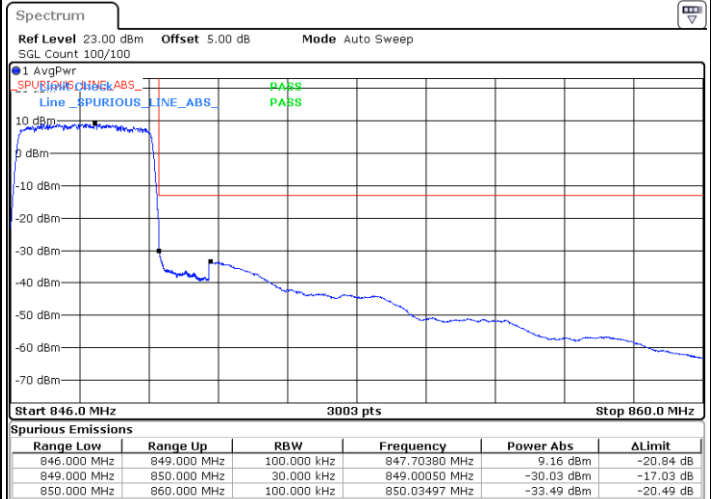
Date: 16 APR 2021 22:53:29

Lowest Band Edge / Full RB



Date: 16 APR 2021 22:50:14

Highest Band Edge / Full RB

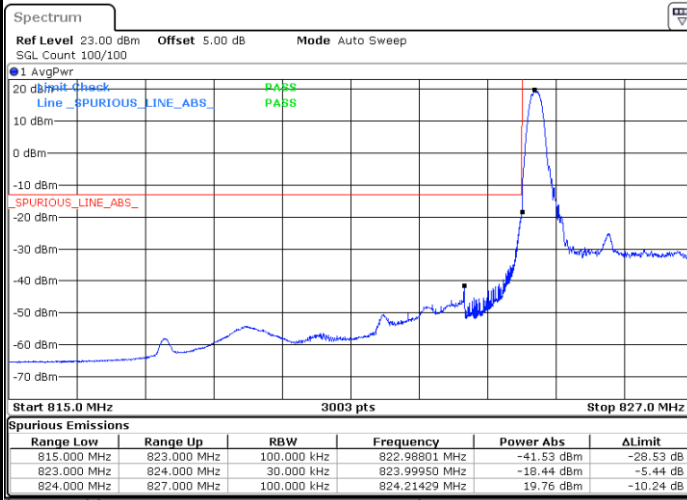


Date: 16 APR 2021 22:56:44



LTE Band 5 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



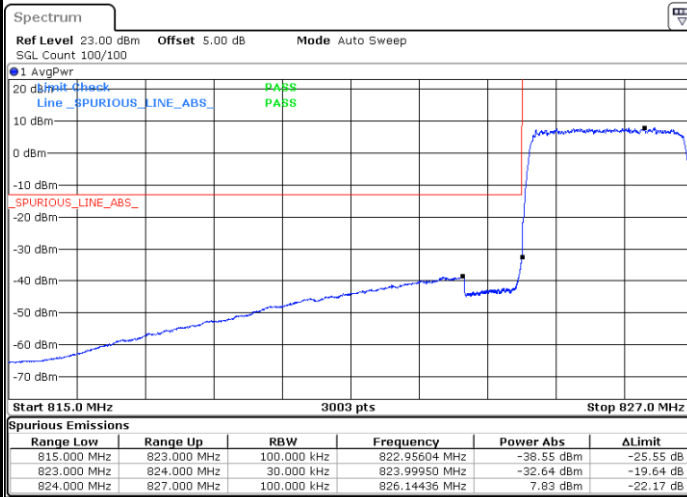
Date: 16 APR 2021 22:48:37

Highest Band Edge / 1 RB



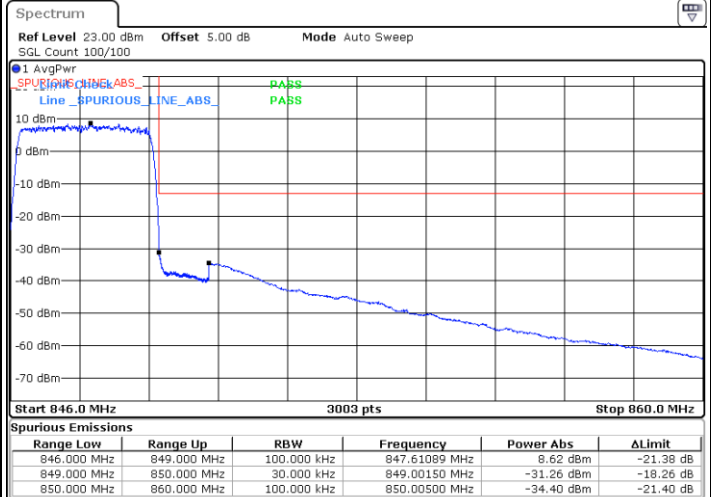
Date: 16 APR 2021 22:55:07

Lowest Band Edge / Full RB



Date: 16 APR 2021 22:51:52

Highest Band Edge / Full RB

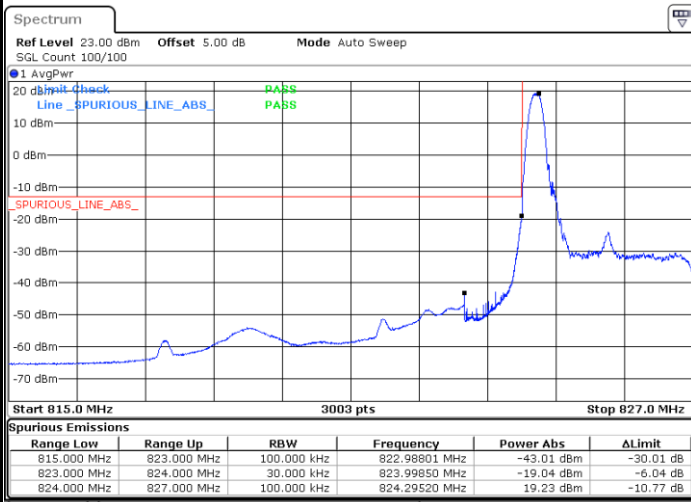


Date: 16 APR 2021 22:58:21



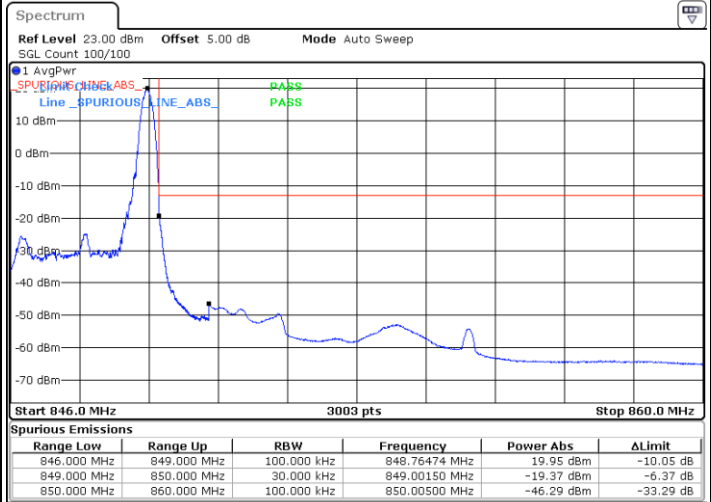
LTE Band 5 / 3MHz / 64QAM

Lowest Band Edge / 1 RB



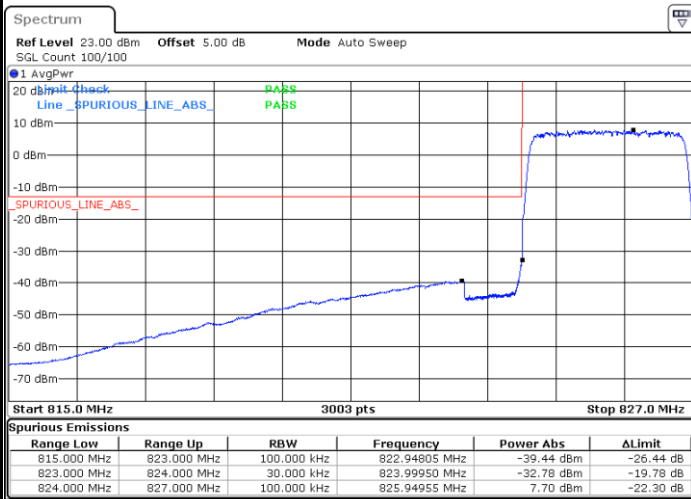
Date: 16 APR 2021 23:35:35

Highest Band Edge / 1 RB



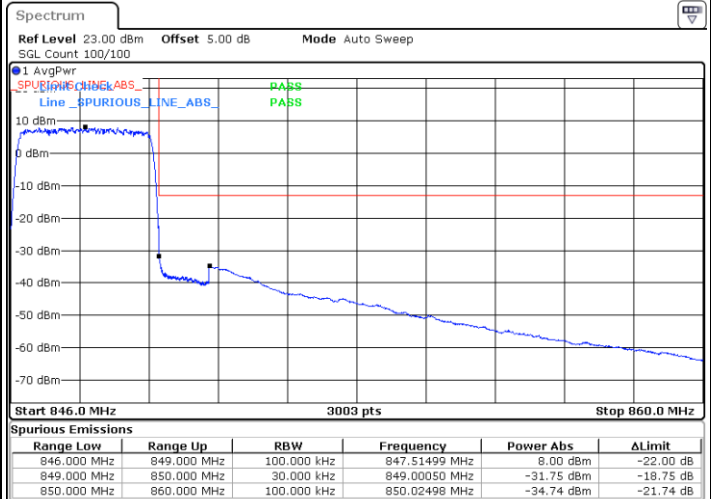
Date: 16 APR 2021 23:38:49

Lowest Band Edge / Full RB



Date: 16 APR 2021 23:33:57

Highest Band Edge / Full RB

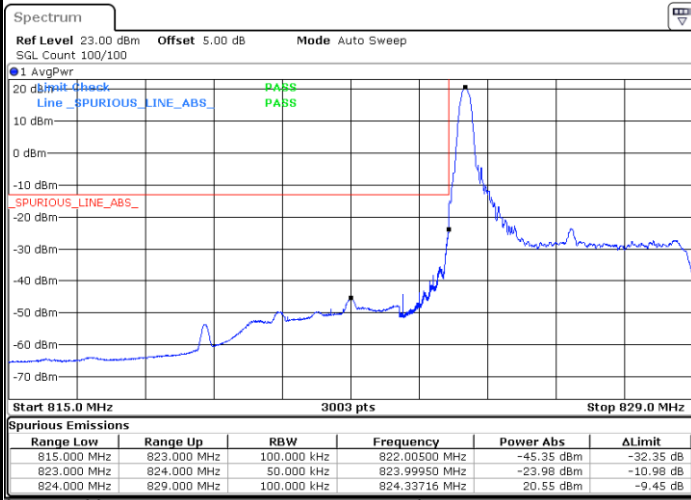


Date: 16 APR 2021 23:37:12



LTE Band 5 / 5MHz / QPSK

Lowest Band Edge / 1 RB



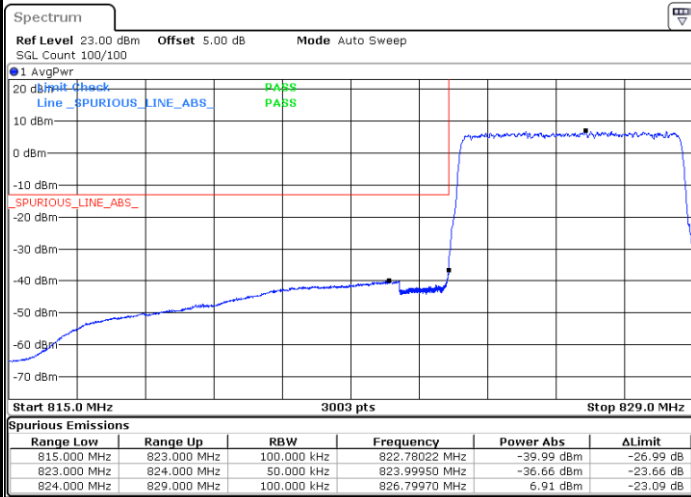
Date: 16 APR 2021 22:59:59

Highest Band Edge / 1 RB



Date: 16 APR 2021 23:06:29

Lowest Band Edge / Full RB



Date: 16 APR 2021 23:03:14

Highest Band Edge / Full RB



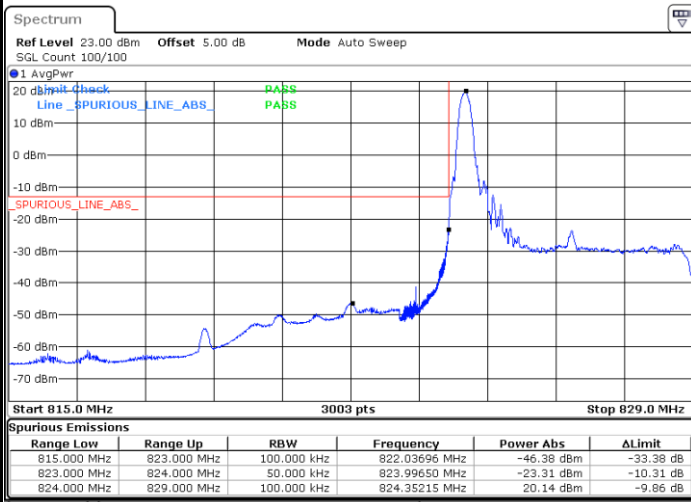
Date: 16 APR 2021 23:09:44





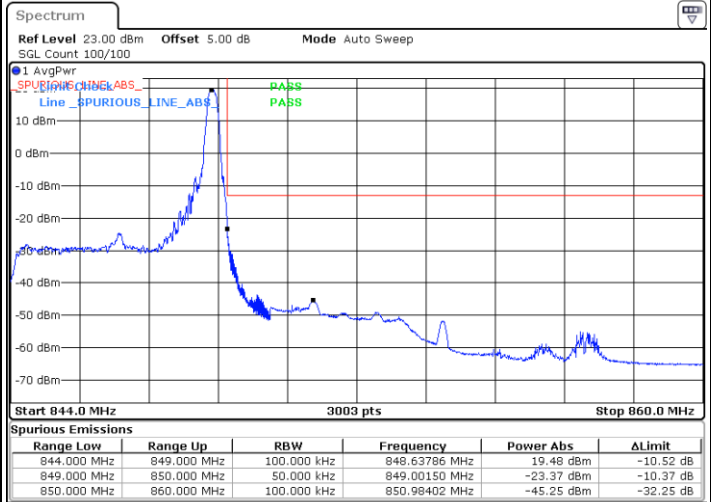
LTE Band 5 / 5MHz / 16QAM

Lowest Band Edge / 1RB



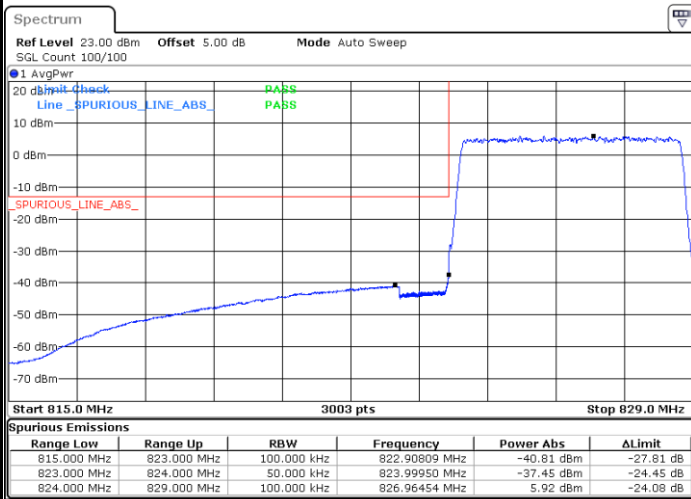
Date: 16 APR 2021 23:01:36

Highest Band Edge / 1 RB



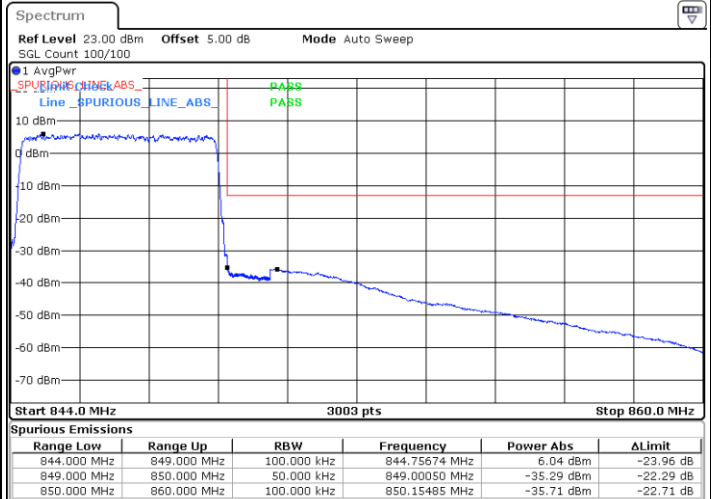
Date: 16 APR 2021 23:08:06

Lowest Band Edge / Full RB



Date: 16 APR 2021 23:04:51

Highest Band Edge / Full RB

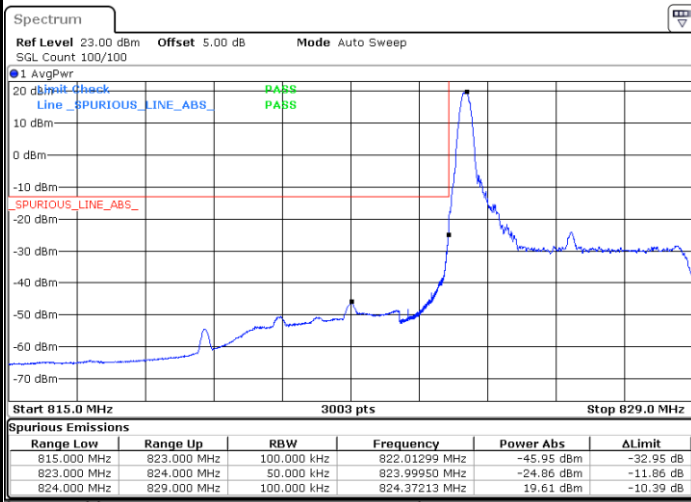


Date: 16 APR 2021 23:11:21



LTE Band 5 / 5MHz / 64QAM

Lowest Band Edge / 1RB



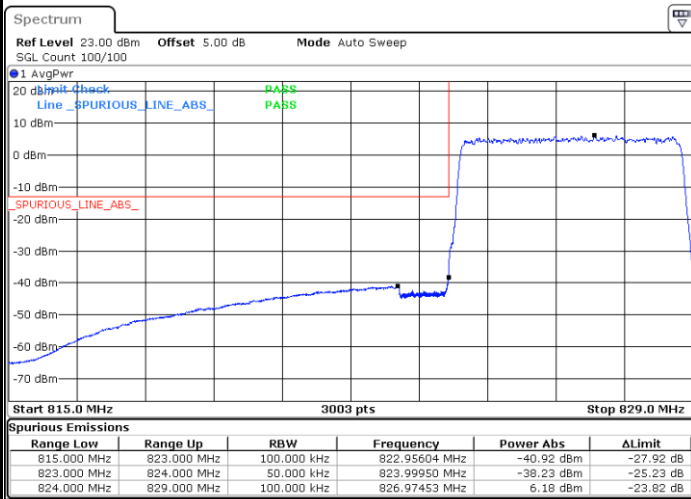
Date: 16 APR 2021 23:42:04

Highest Band Edge / 1 RB



Date: 16 APR 2021 23:45:19

Lowest Band Edge / Full RB



Date: 16 APR 2021 23:40:27

Highest Band Edge / Full RB

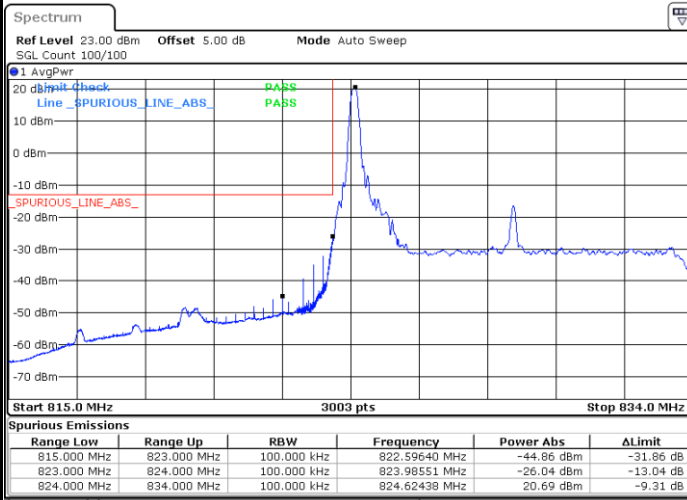


Date: 16 APR 2021 23:43:42



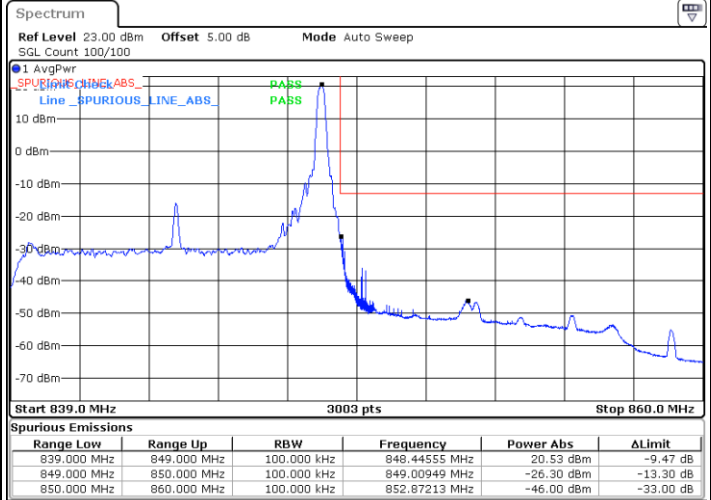
LTE Band 5 / 10MHz / QPSK

Lowest Band Edge / 1 RB



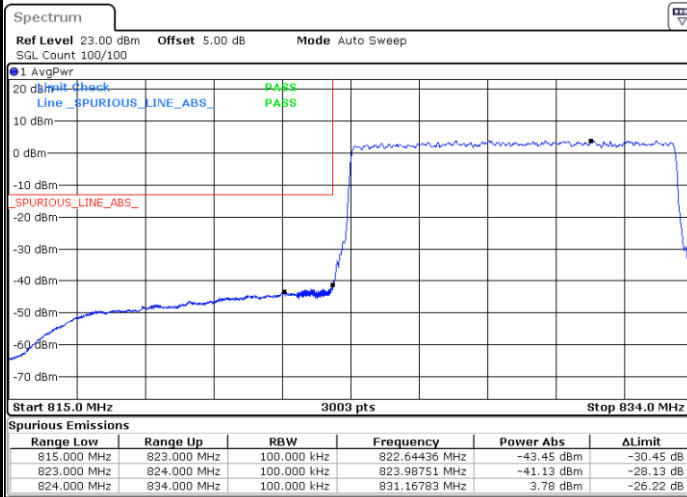
Date: 16 APR 2021 23:12:58

Highest Band Edge / 1 RB



Date: 16 APR 2021 23:19:28

Lowest Band Edge / Full RB



Date: 16 APR 2021 23:16:13

Highest Band Edge / Full RB

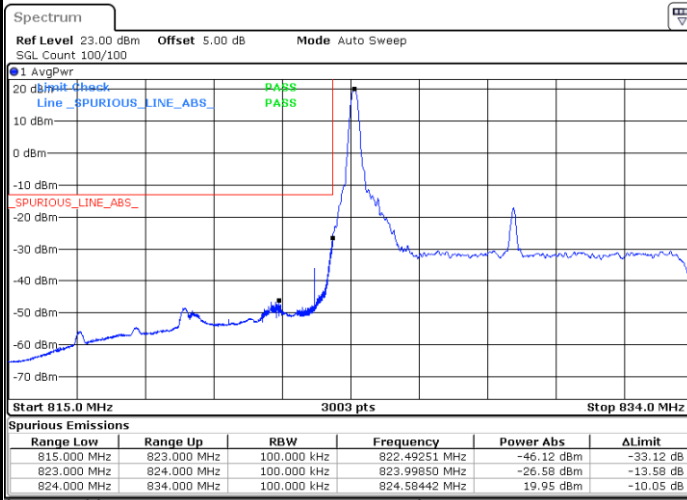


Date: 16 APR 2021 23:22:43



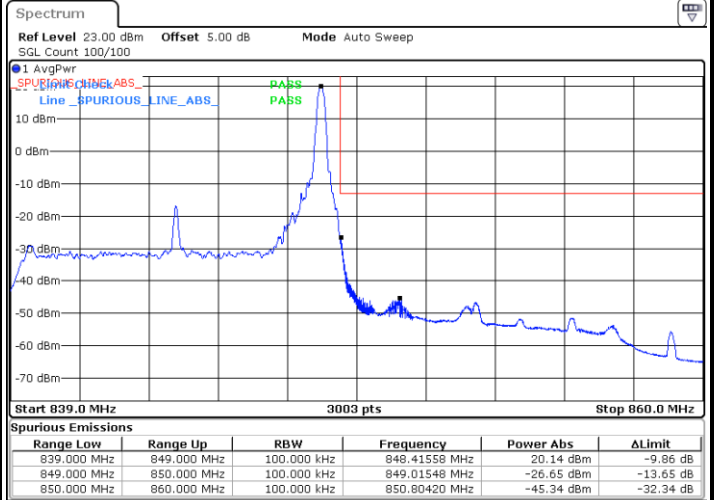
LTE Band 5 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



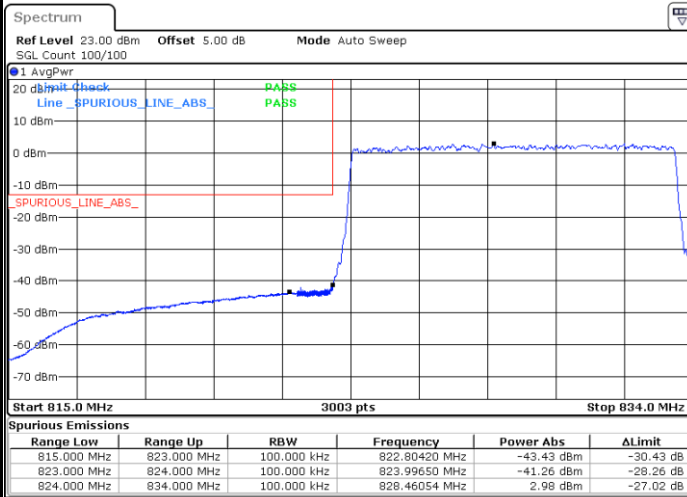
Date: 16 APR 2021 23:14:36

Highest Band Edge / 1 RB



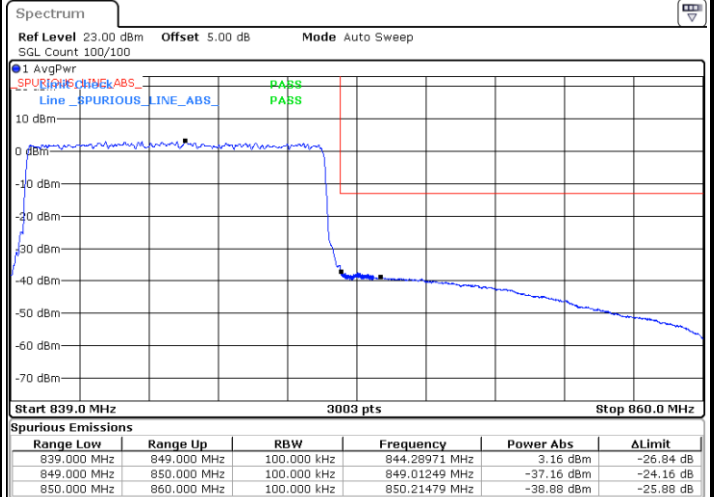
Date: 16 APR 2021 23:21:06

Lowest Band Edge / Full RB



Date: 16 APR 2021 23:17:51

Highest Band Edge / Full RB

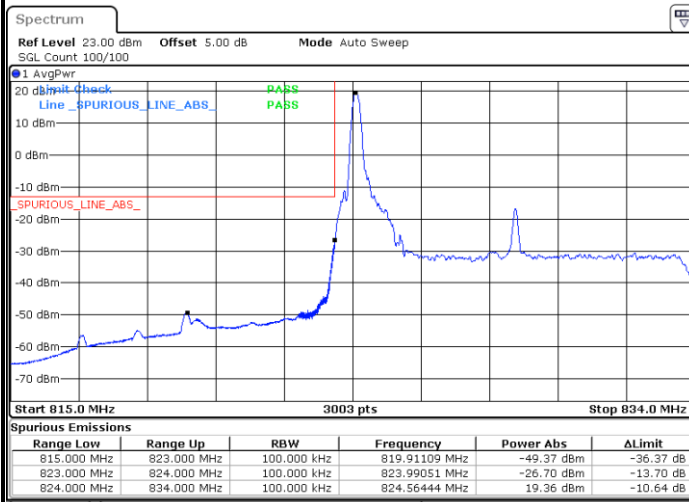


Date: 16 APR 2021 23:24:21



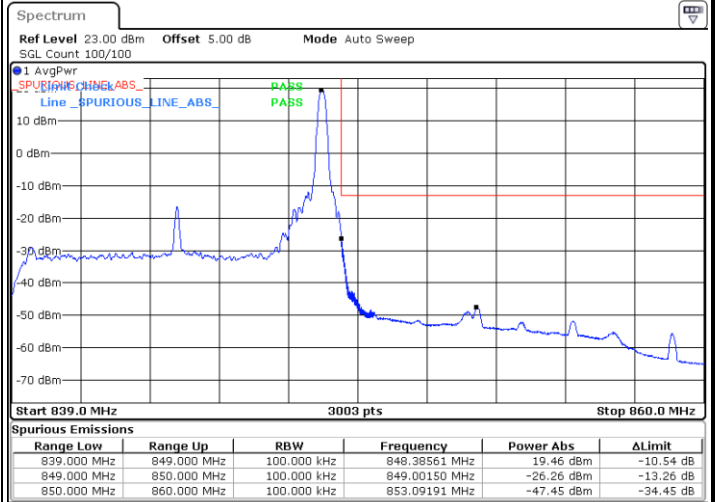
LTE Band 5 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



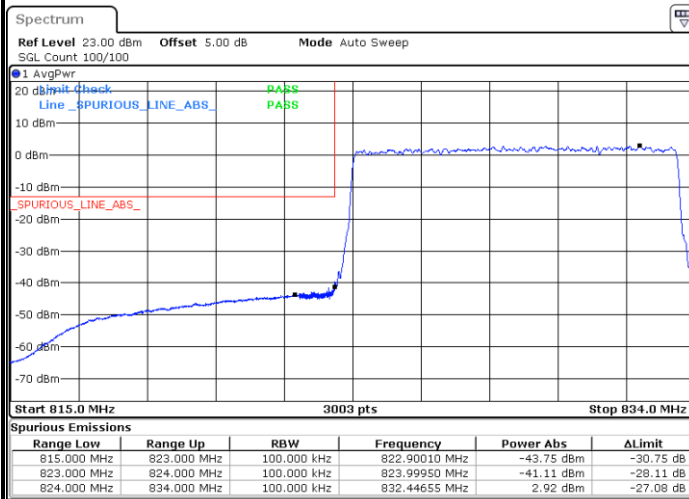
Date: 16 APR 2021 23:49:41

Highest Band Edge / 1 RB



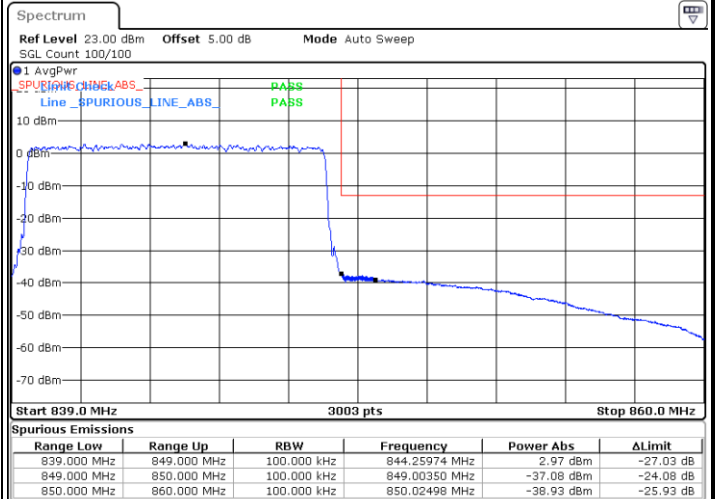
Date: 16 APR 2021 23:52:56

Lowest Band Edge / Full RB



Date: 16 APR 2021 23:48:04

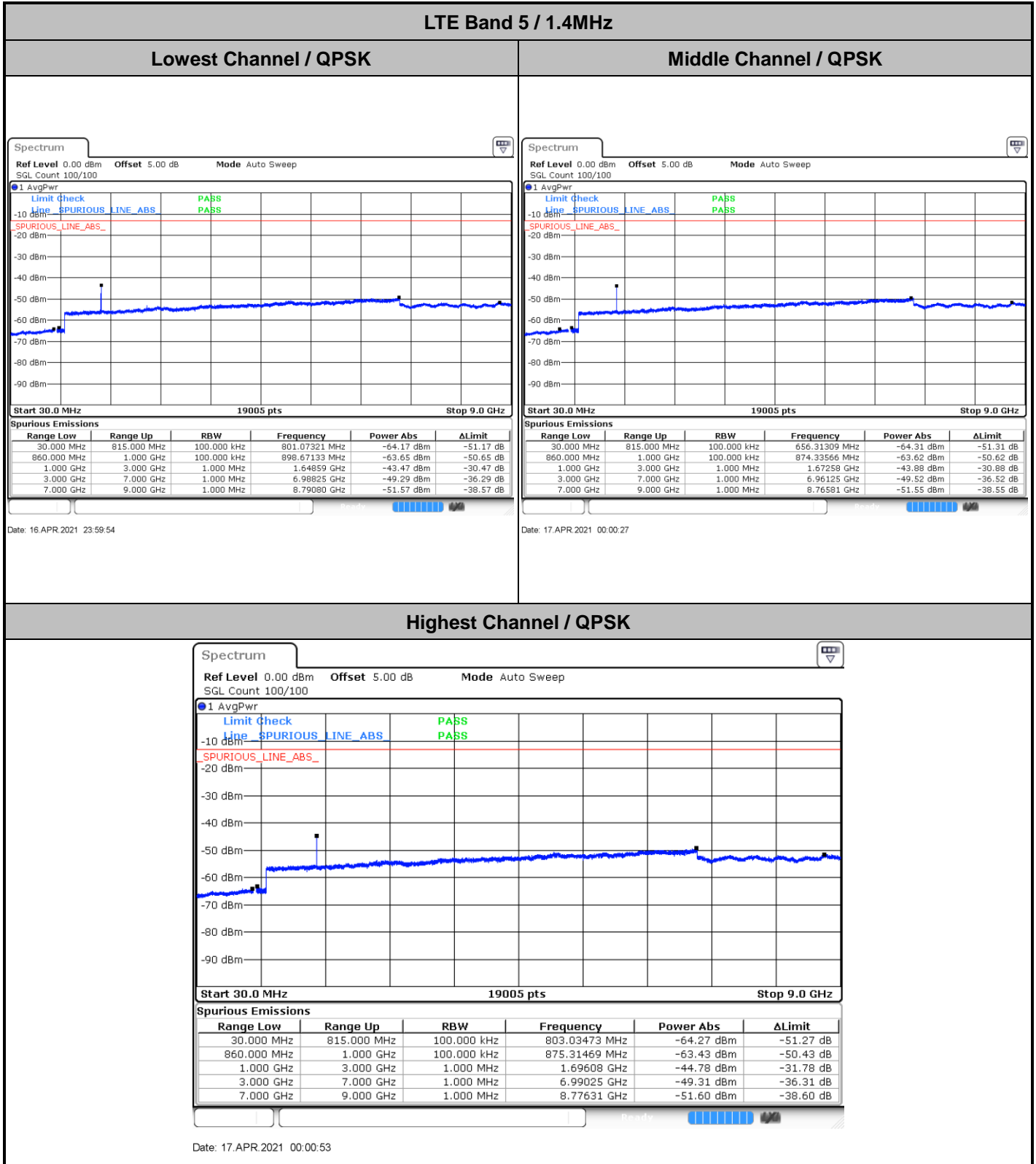
Highest Band Edge / Full RB



Date: 16 APR 2021 23:51:19



# Conducted Spurious Emission

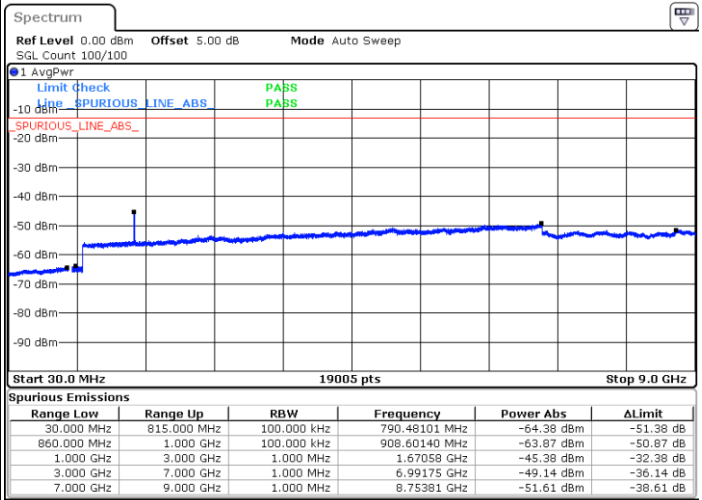
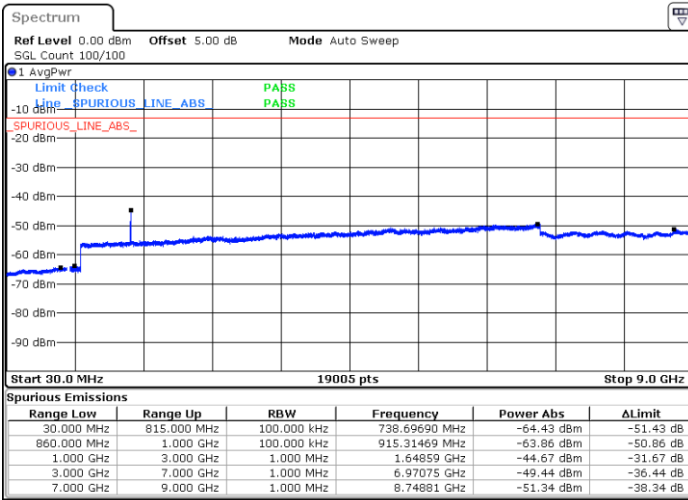




LTE Band 5 / 3MHz

Lowest Channel / QPSK

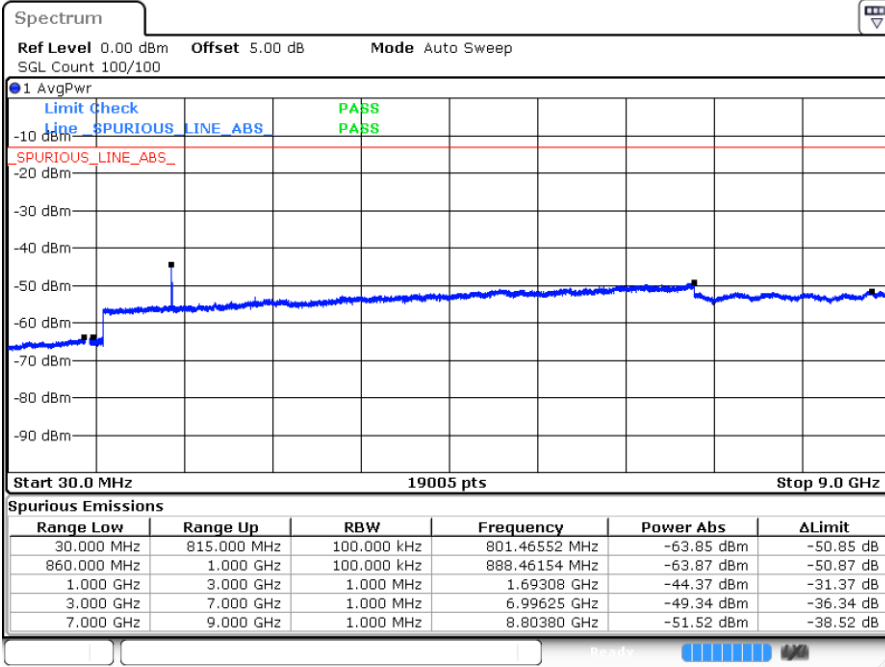
Middle Channel / QPSK



Date: 17.APR.2021 00:01:26

Date: 17.APR.2021 00:01:56

Highest Channel / QPSK



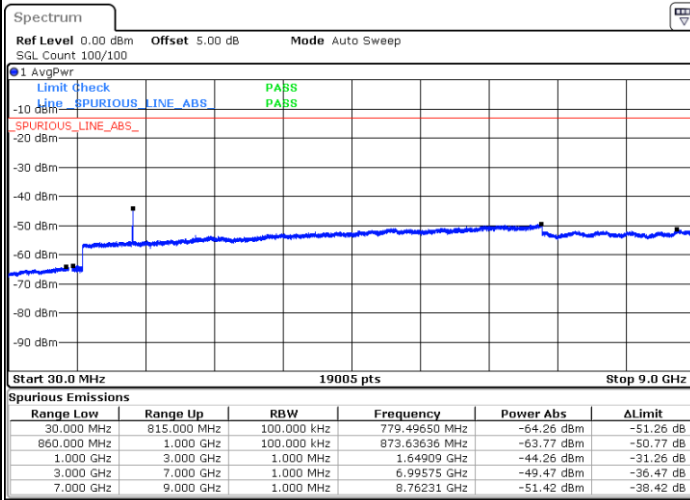
Date: 17.APR.2021 00:02:23



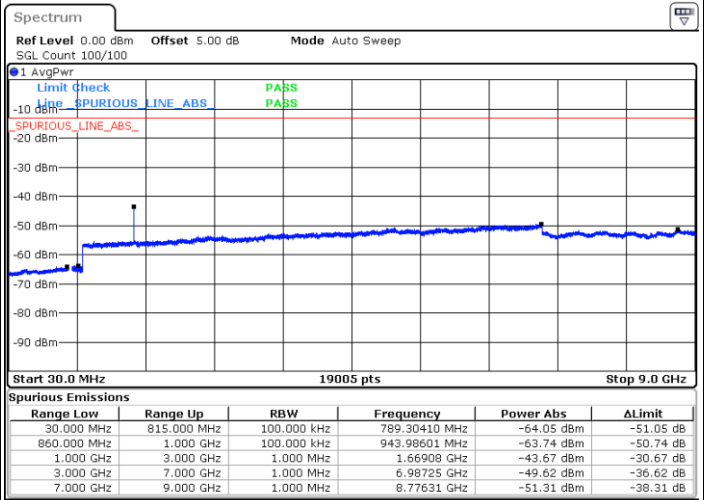
LTE Band 5 / 5MHz

Lowest Channel / QPSK

Middle Channel / QPSK

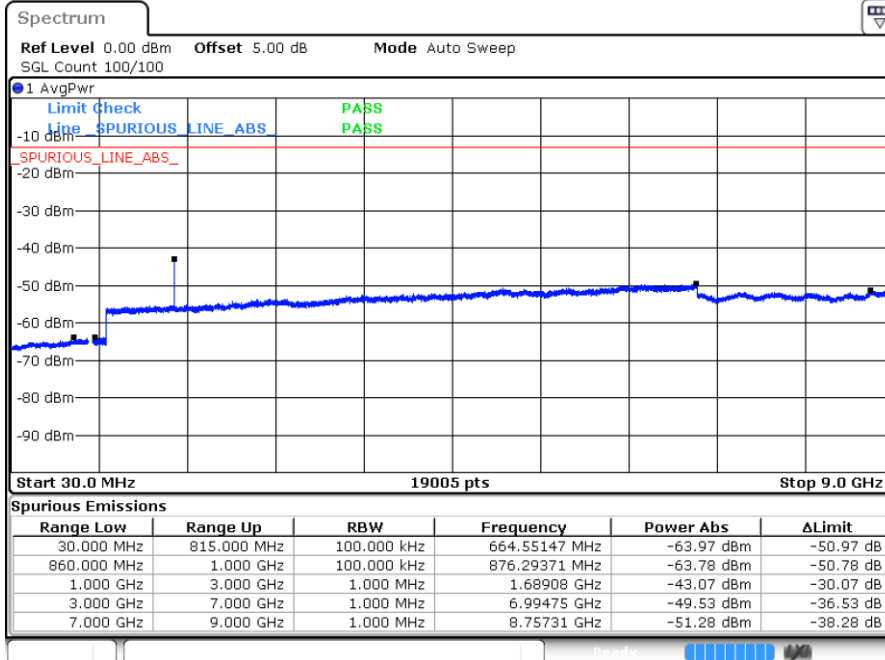


Date: 17.APR.2021 00:03:00



Date: 17.APR.2021 00:03:26

Highest Channel / QPSK



Date: 17.APR.2021 00:03:52

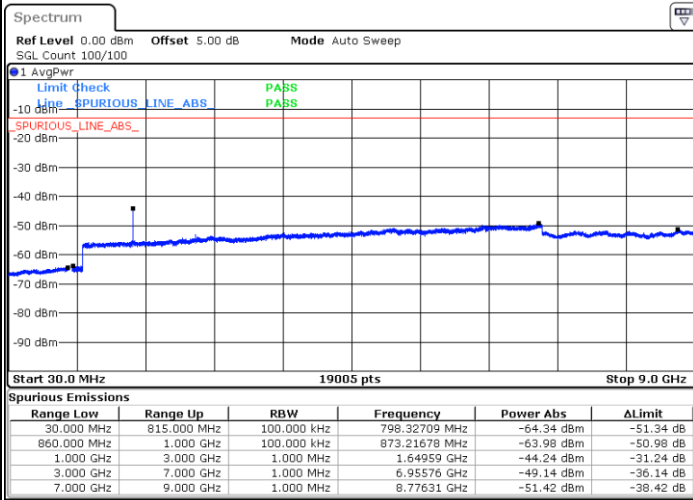




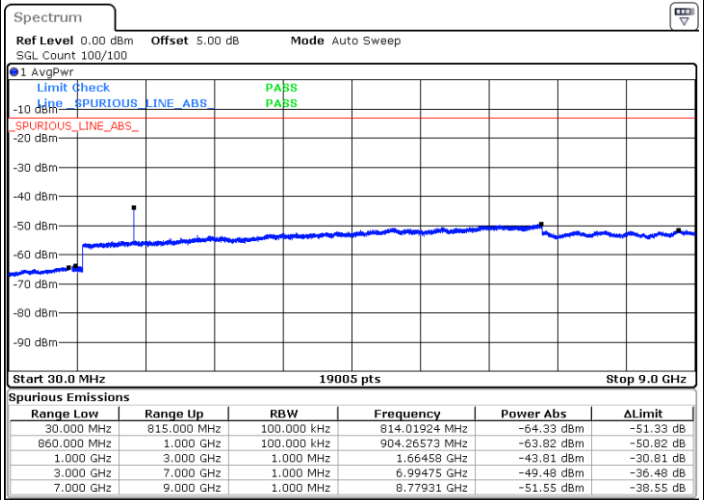
LTE Band 5 / 10MHz

Lowest Channel / QPSK

Middle Channel / QPSK

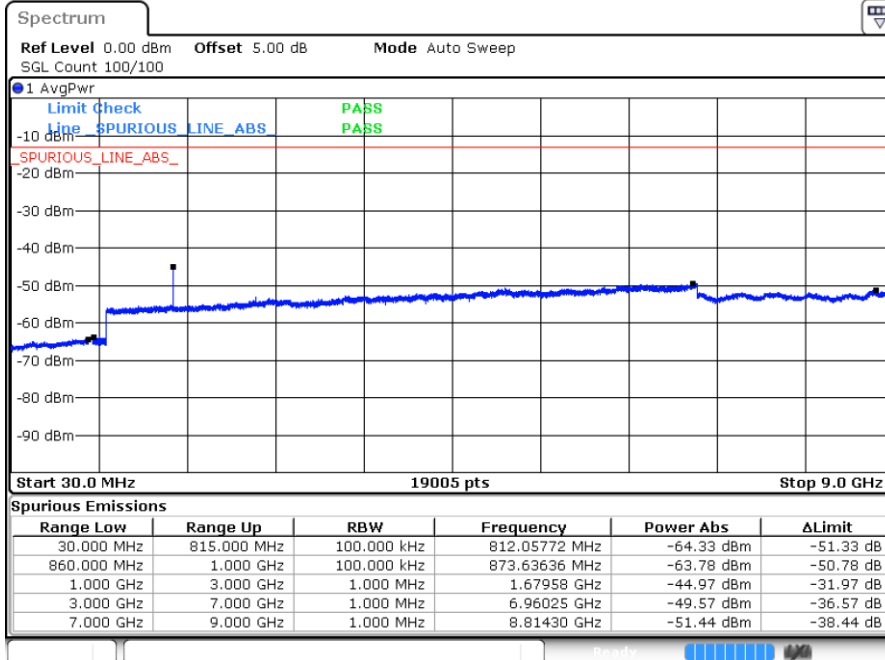


Date: 17.APR.2021 00:04:20



Date: 17.APR.2021 00:04:46

Highest Channel / QPSK



Date: 17.APR.2021 00:05:12



Frequency Stability

Test Conditions		LTE Band 5 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	2.5ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0042	PASS
40	Normal Voltage	0.0017	
30	Normal Voltage	0.0013	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0042	
0	Normal Voltage	0.0051	
-10	Normal Voltage	0.0011	
-20	Normal Voltage	0.0006	
-30	Normal Voltage	0.0005	
20	Maximum Voltage	0.0047	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0002	

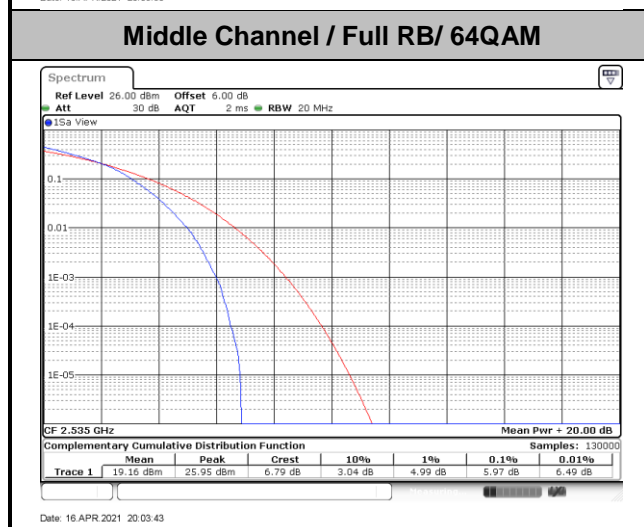
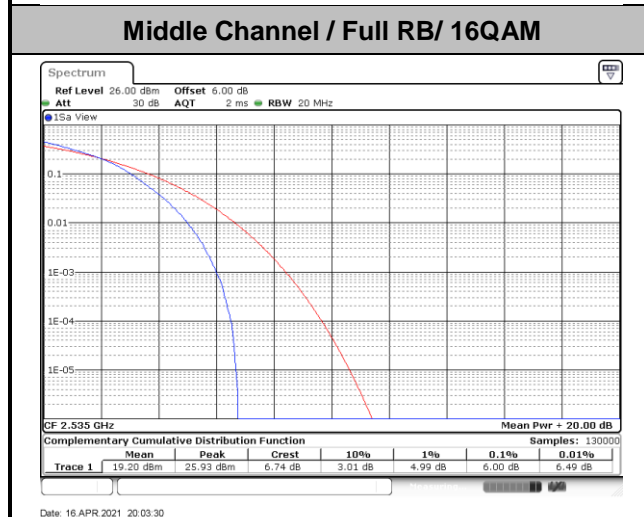
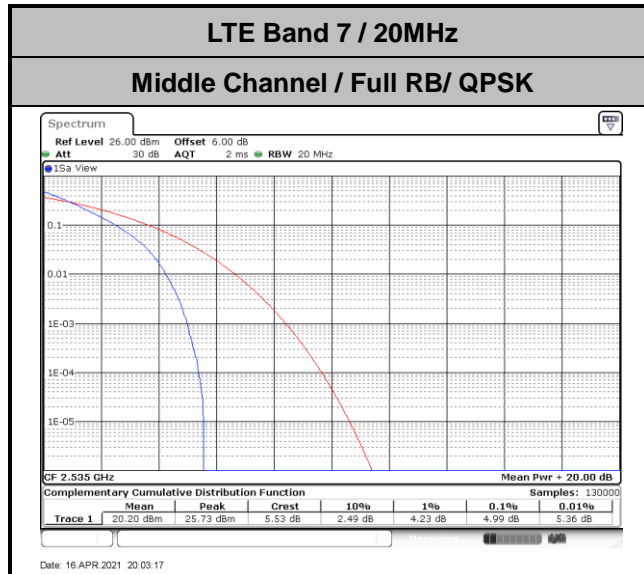
Note: Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.35 V.



## LTE Band 7

### Peak-to-Average Ratio

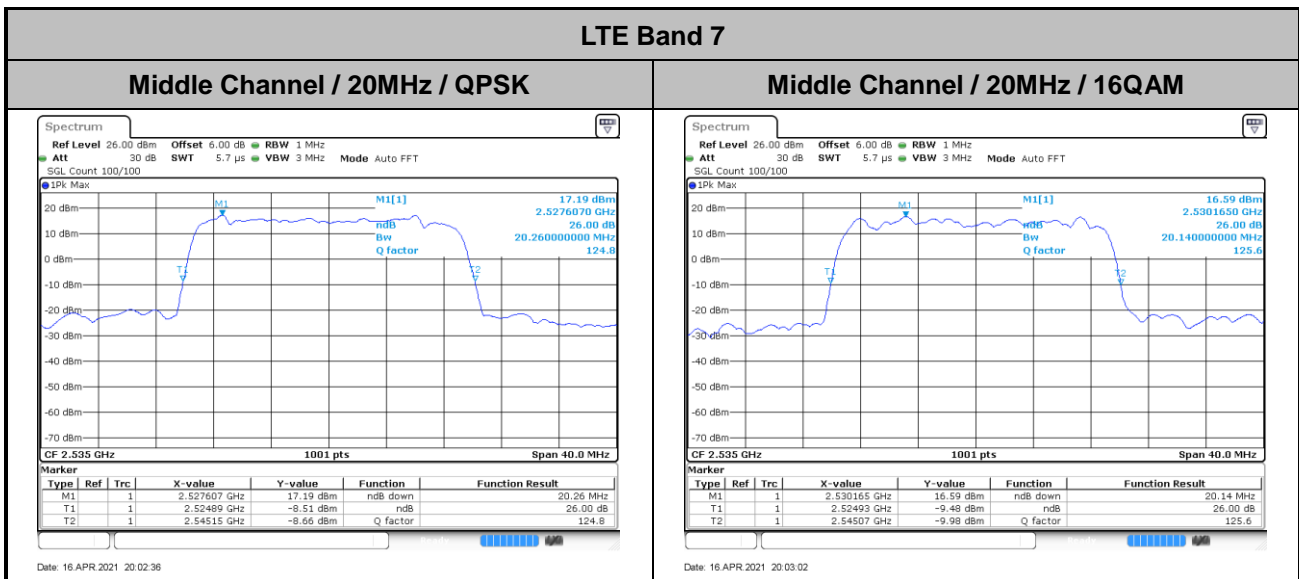
Mode	LTE Band 7 / 20MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	4.99	6.00	5.97	<b>PASS</b>





## 26dB Bandwidth

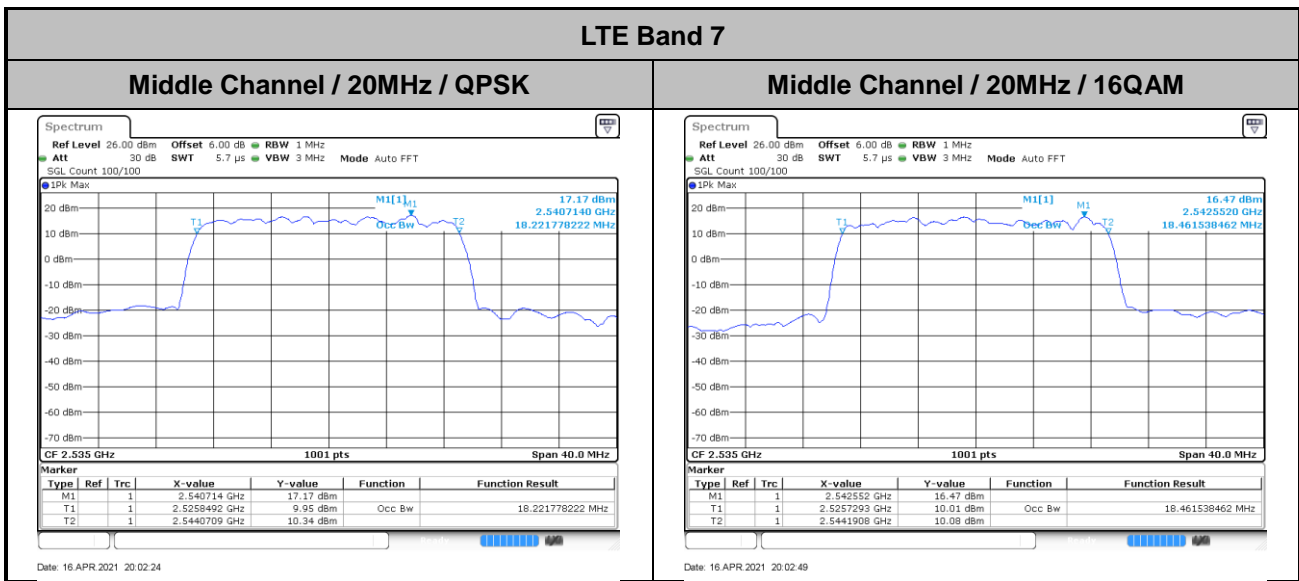
<b>Mode</b>	<b>LTE Band 7 : 26dB BW(MHz)</b>	
<b>BW</b>	<b>20MHz</b>	
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>
<b>Middle CH</b>	20.26	20.14





# Occupied Bandwidth

Mode	LTE Band 7 : 99%OBW(MHz)	
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	18.22	18.46

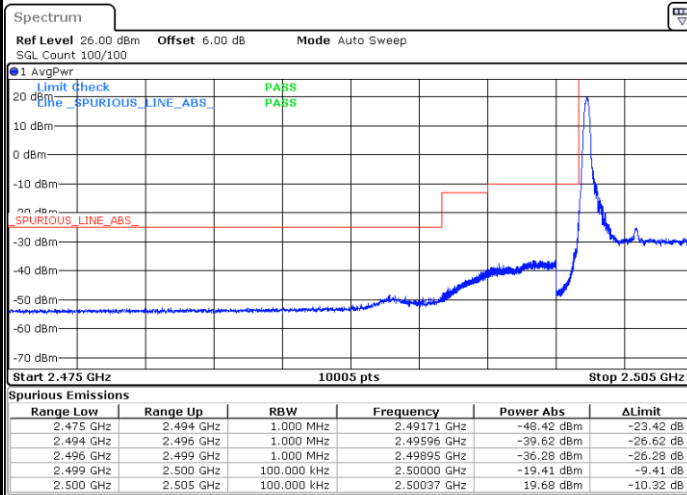




# Conducted Band Edge

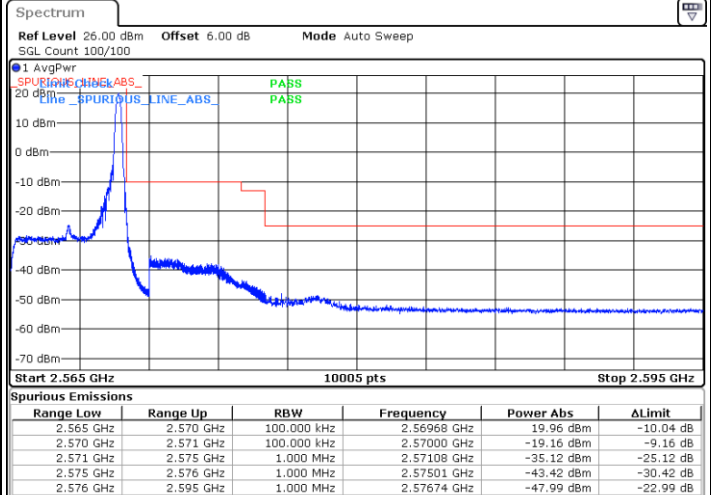
## LTE Band 7 / 5MHz / QPSK

### Lowest Band Edge / 1 RB



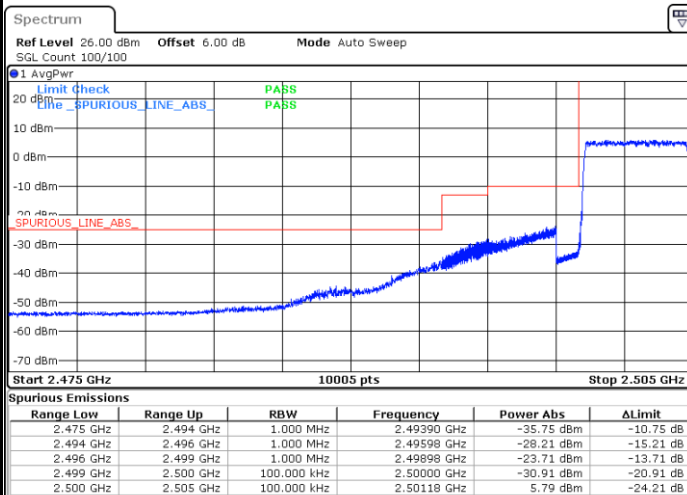
Date: 16 APR 2021 17:45:59

### Highest Band Edge / 1 RB



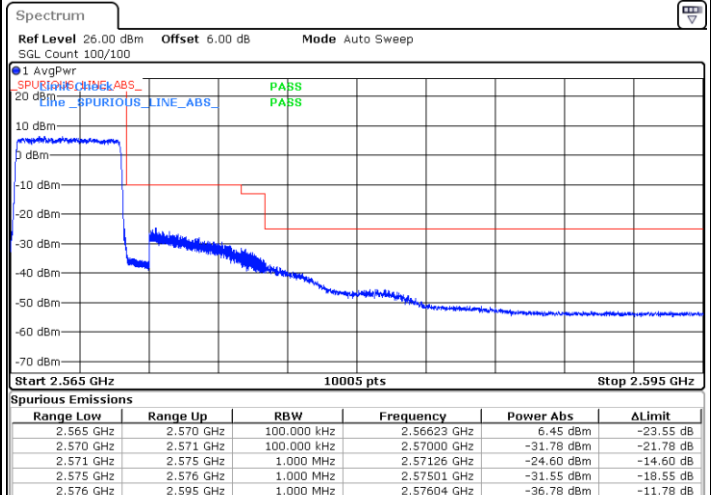
Date: 16 APR 2021 17:53:56

### Lowest Band Edge / Full RB



Date: 16 APR 2021 17:49:24

### Highest Band Edge / Full RB

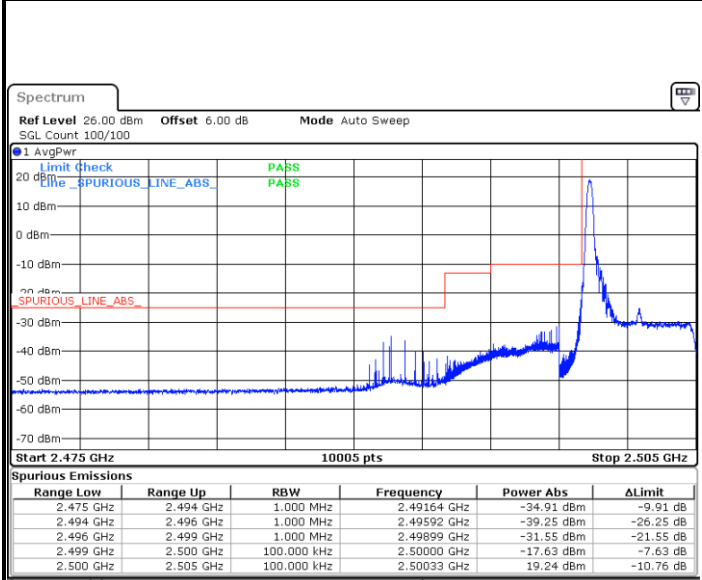


Date: 16 APR 2021 17:50:32



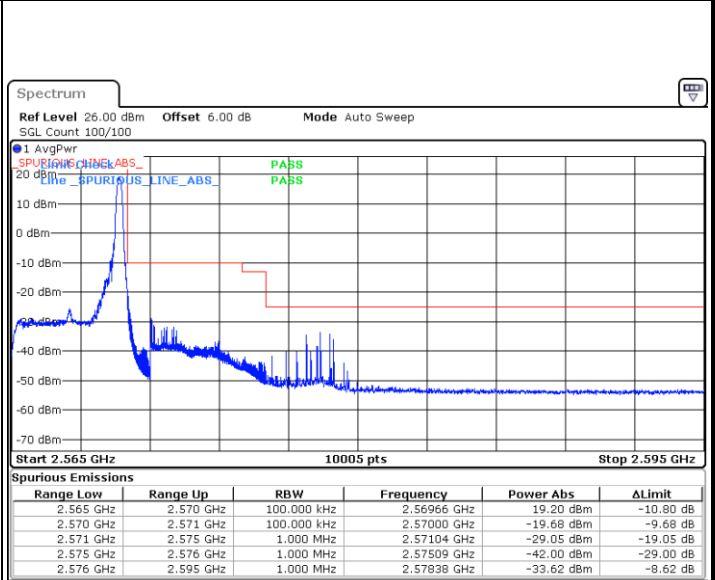
LTE Band 7 / 5MHz / 16QAM

Lowest Band Edge / 1RB



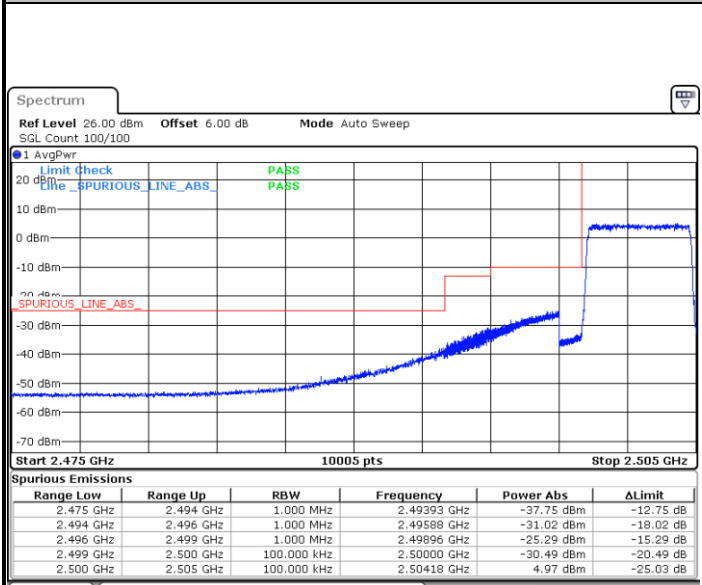
Date: 16 APR 2021 17:47:08

Highest Band Edge / 1 RB



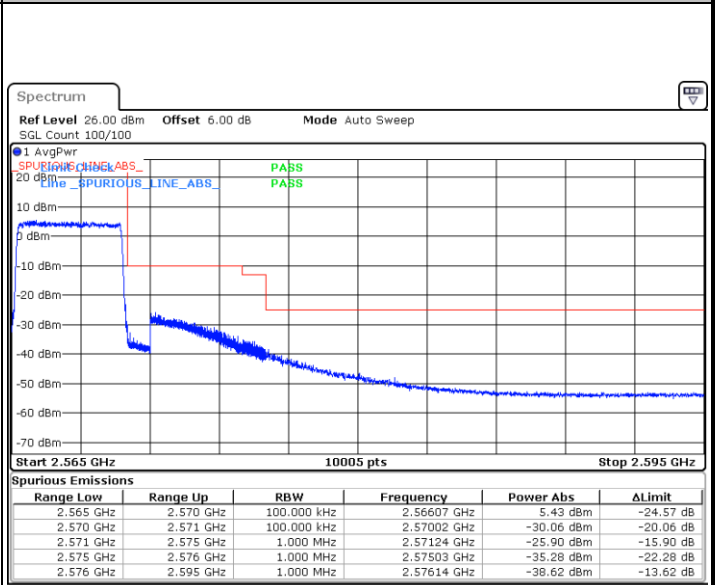
Date: 16 APR 2021 17:52:48

Lowest Band Edge / Full RB



Date: 16 APR 2021 17:48:16

Highest Band Edge / Full RB



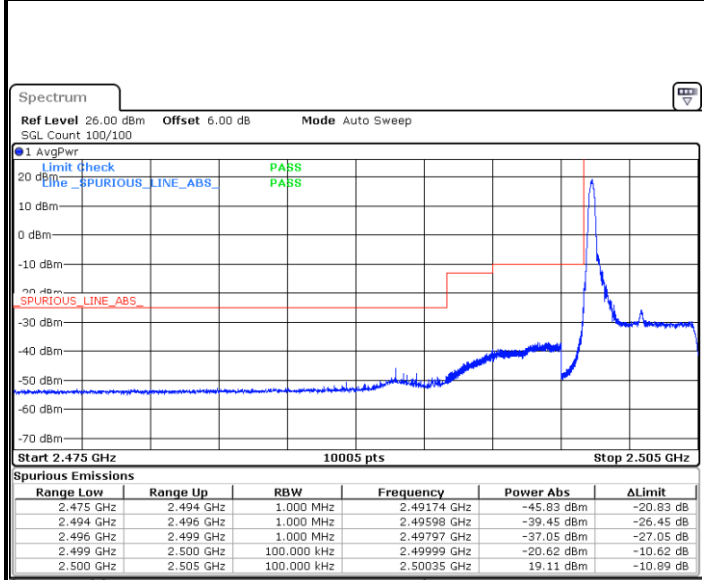
Date: 16 APR 2021 17:51:40





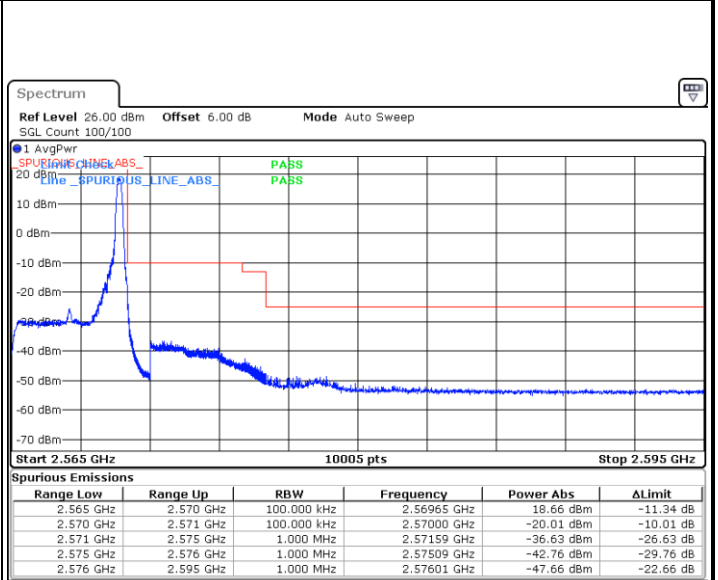
LTE Band 7 / 5MHz / 64QAM

Lowest Band Edge / 1RB



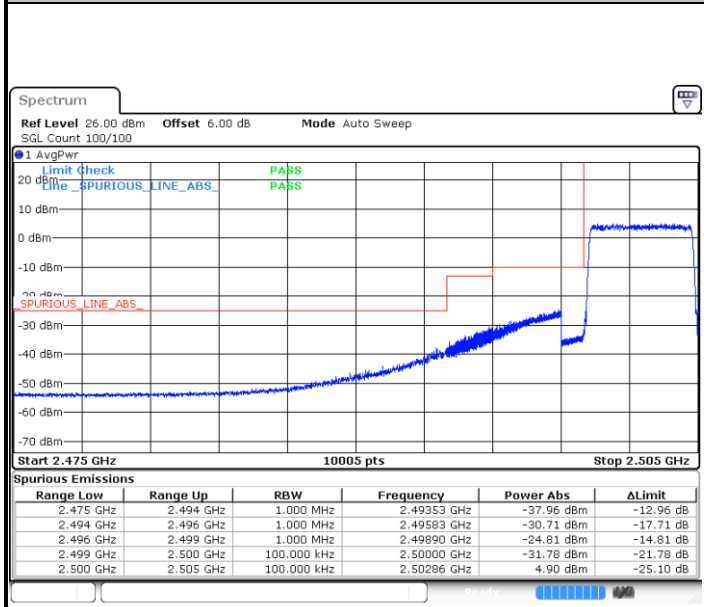
Date: 16 APR 2021 18:48:24

Highest Band Edge / 1 RB



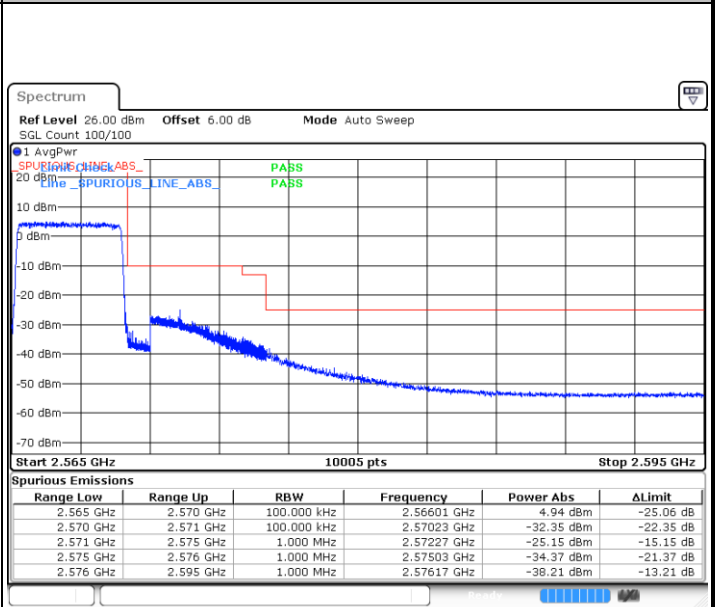
Date: 16 APR 2021 18:50:41

Lowest Band Edge / Full RB



Date: 16 APR 2021 18:49:33

Highest Band Edge / Full RB

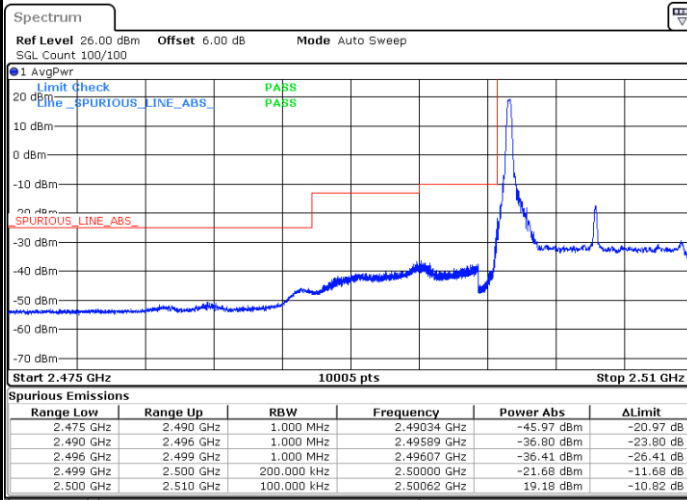


Date: 16 APR 2021 18:51:49



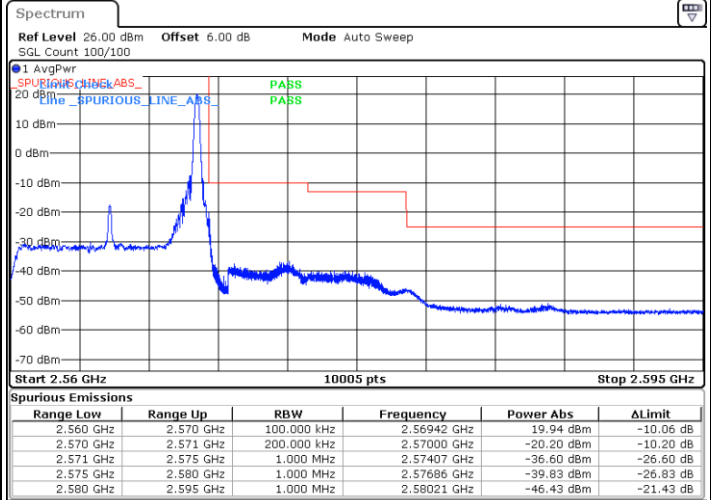
LTE Band 7 / 10MHz / QPSK

Lowest Band Edge / 1 RB



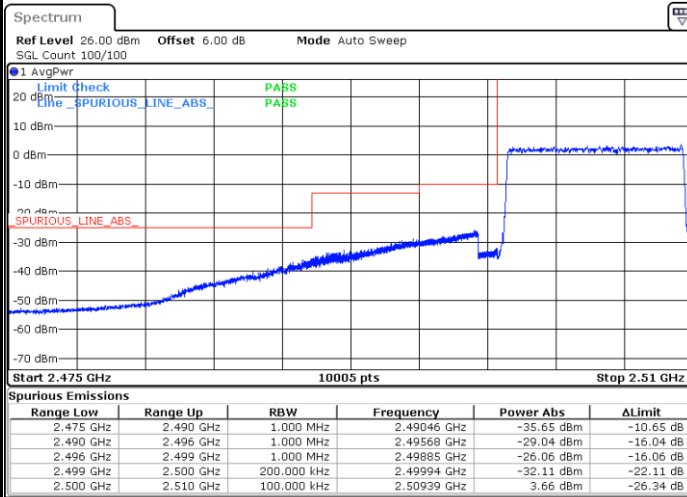
Date: 16 APR 2021 17:55:04

Highest Band Edge / 1 RB



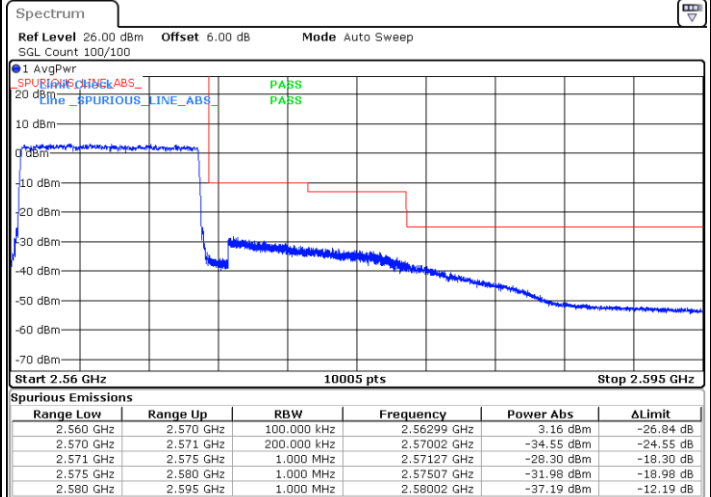
Date: 16 APR 2021 18:03:01

Lowest Band Edge / Full RB



Date: 16 APR 2021 17:58:29

Highest Band Edge / Full RB



Date: 16 APR 2021 17:59:37