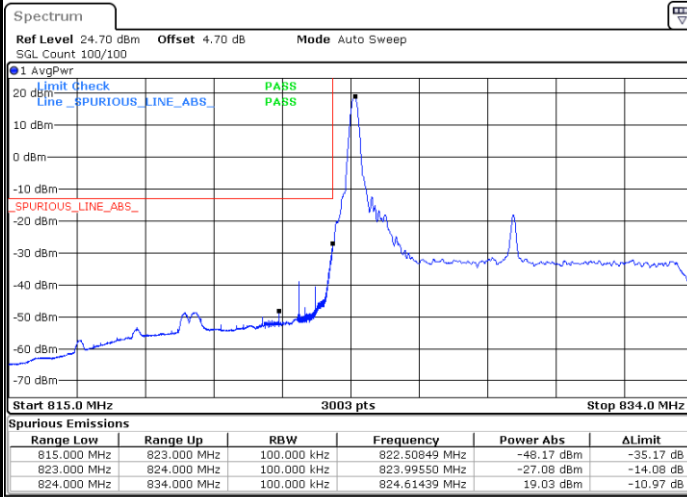




LTE Band 5 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



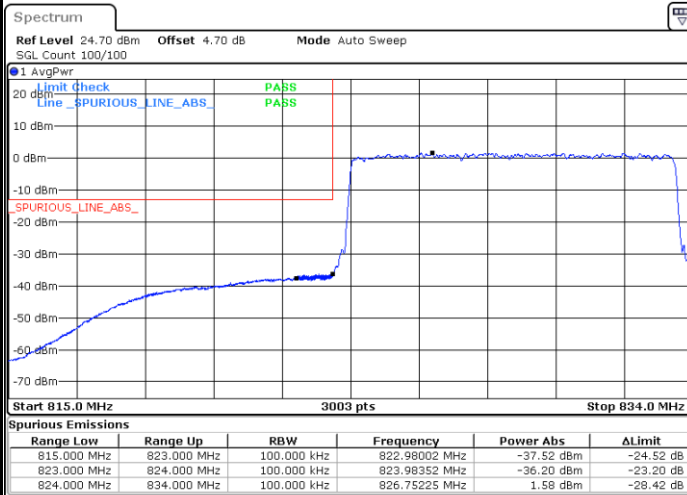
Date: 28.MAY.2021 05:02:42

Highest Band Edge / 1 RB



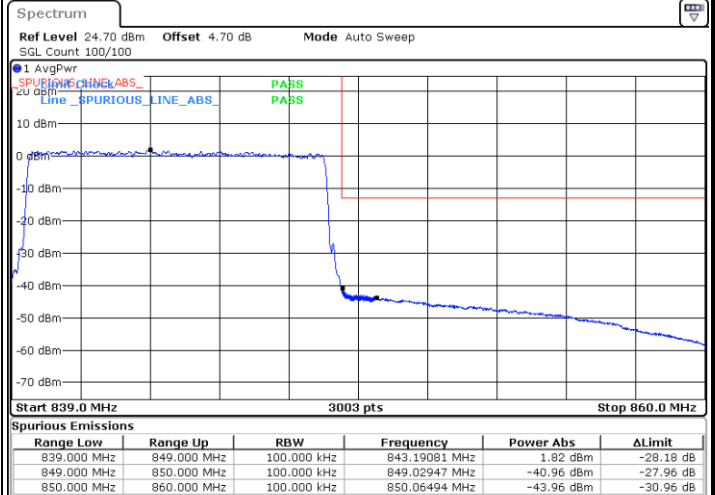
Date: 28.MAY.2021 05:06:29

Lowest Band Edge / Full RB



Date: 28.MAY.2021 05:04:35

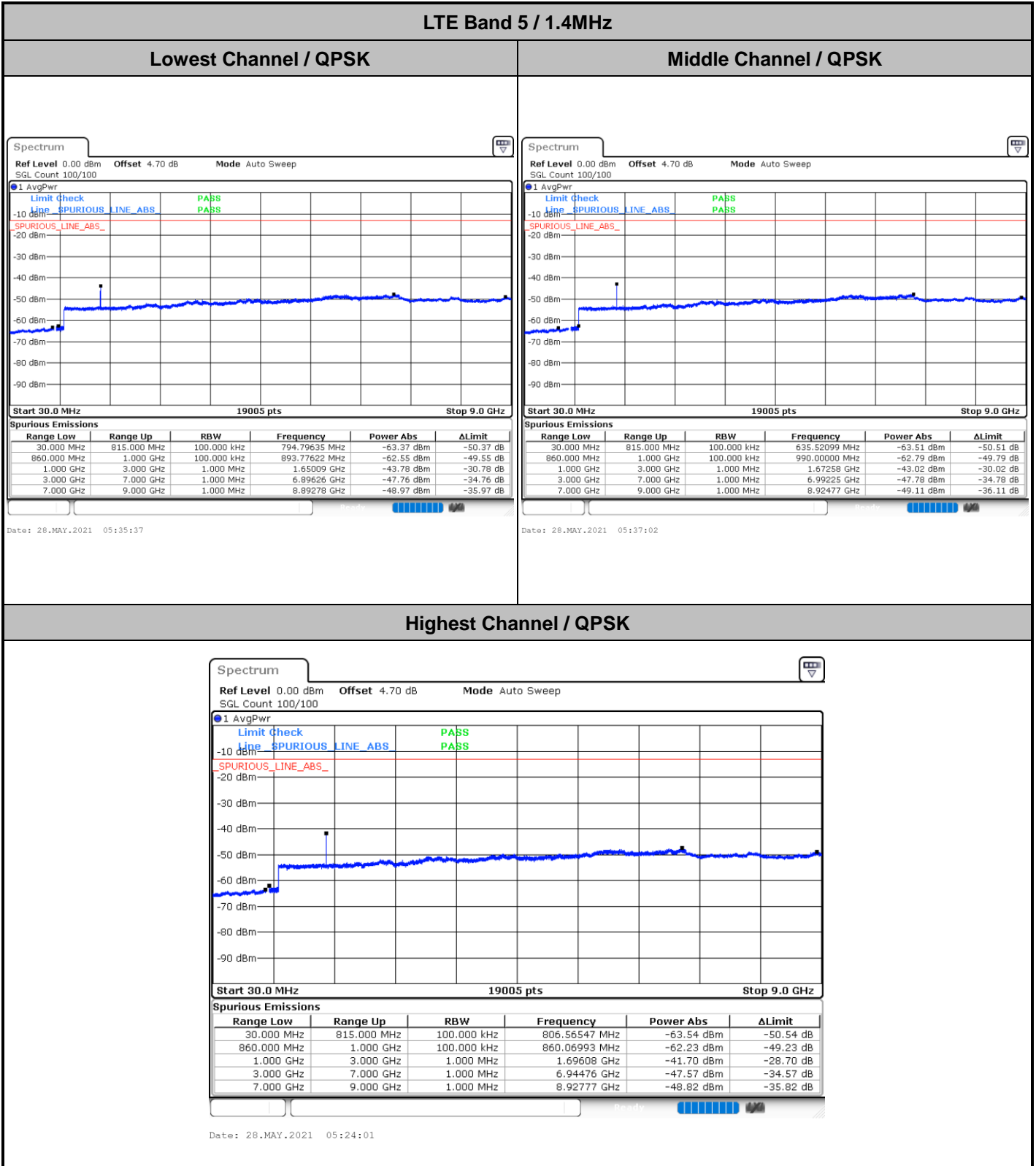
Highest Band Edge / Full RB



Date: 28.MAY.2021 05:08:23



# Conducted Spurious Emission

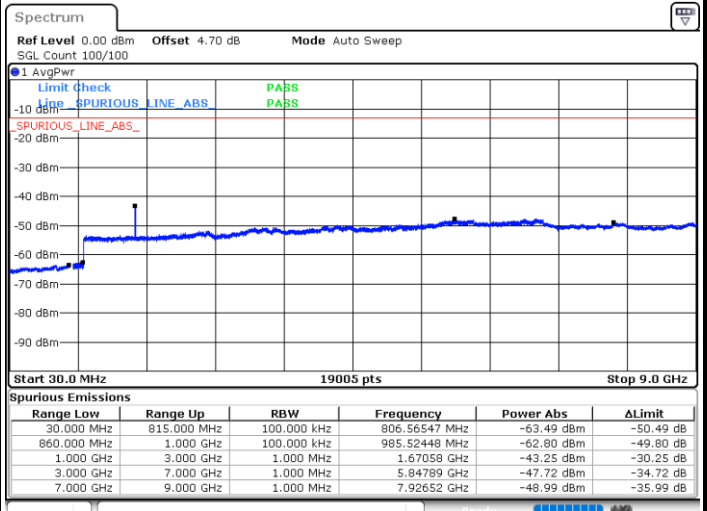
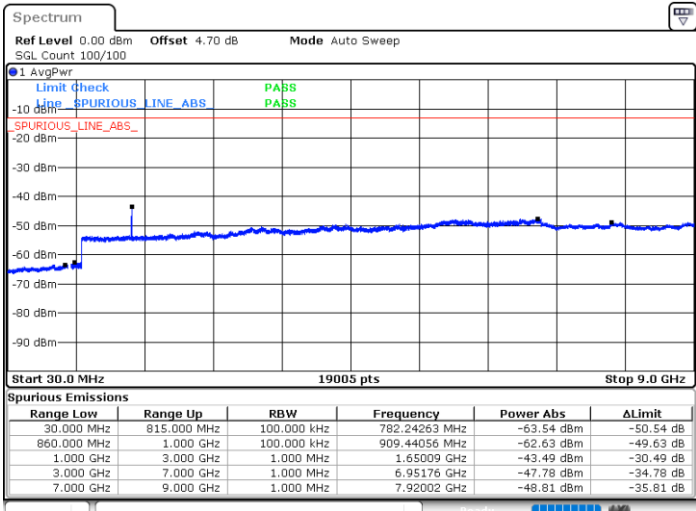




LTE Band 5 / 3MHz

Lowest Channel / QPSK

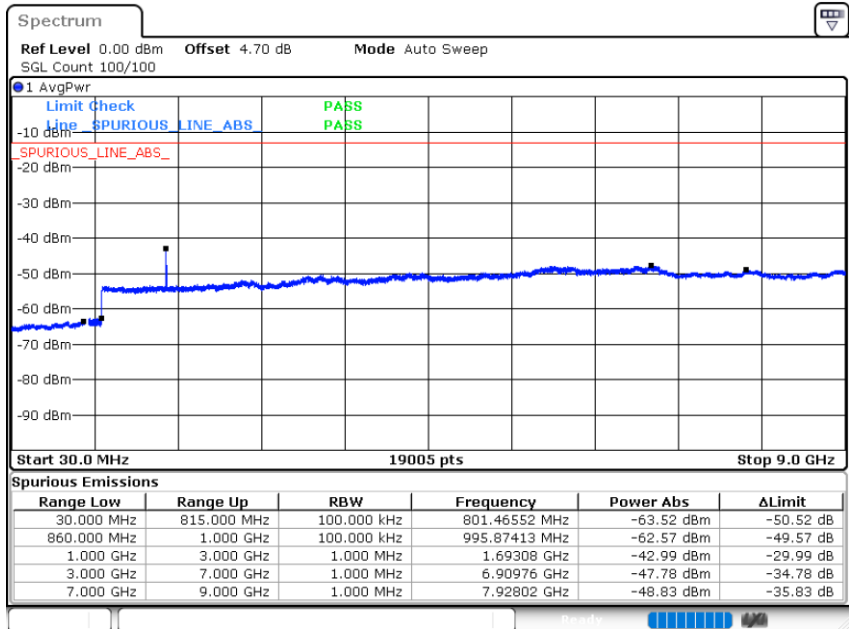
Middle Channel / QPSK



Date: 28.MAY.2021 03:53:29

Date: 28.MAY.2021 03:54:53

Highest Channel / QPSK



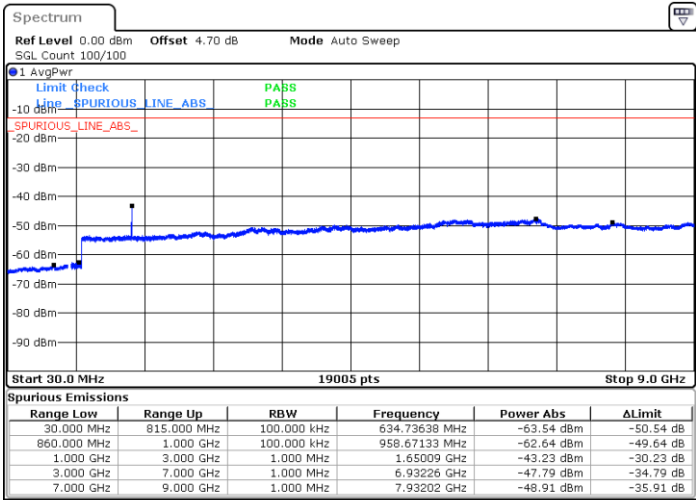
Date: 28.MAY.2021 04:03:51



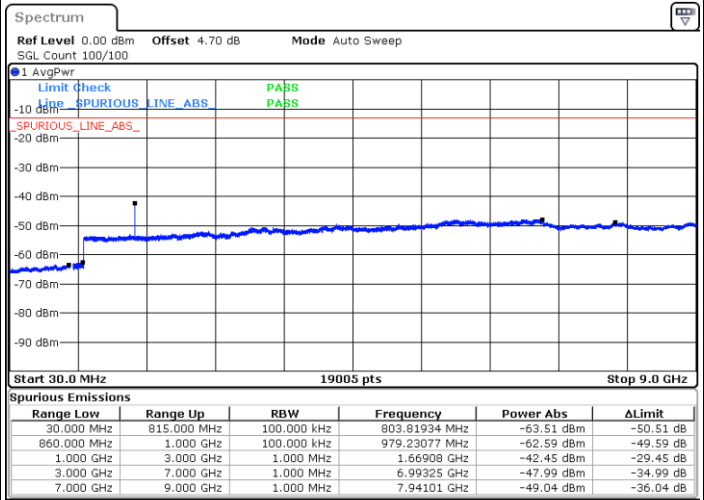
LTE Band 5 / 5MHz

Lowest Channel / QPSK

Middle Channel / QPSK

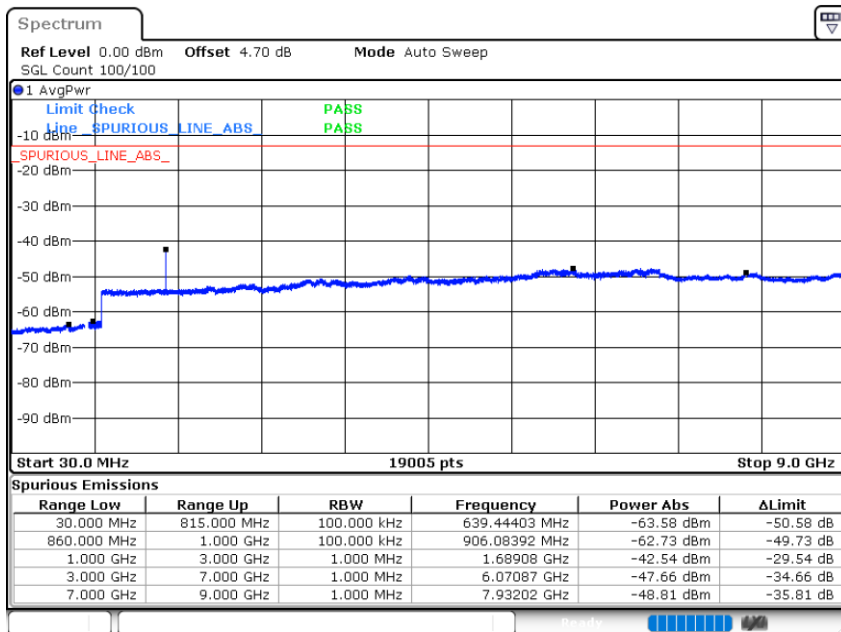


Date: 28.MAY.2021 04:20:28



Date: 28.MAY.2021 04:21:52

Highest Channel / QPSK



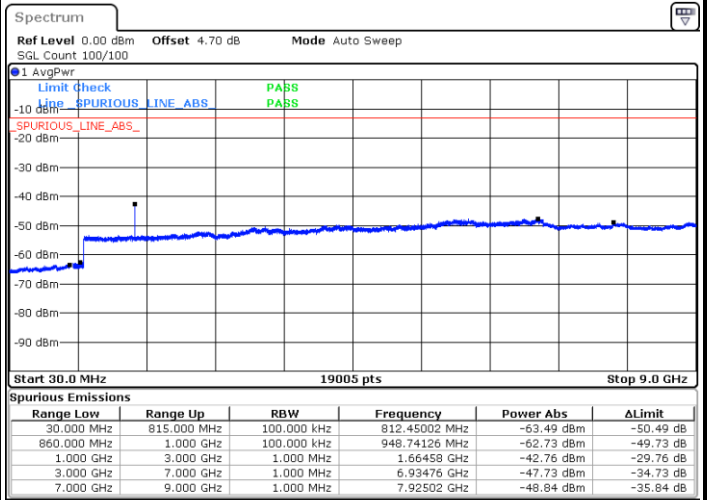
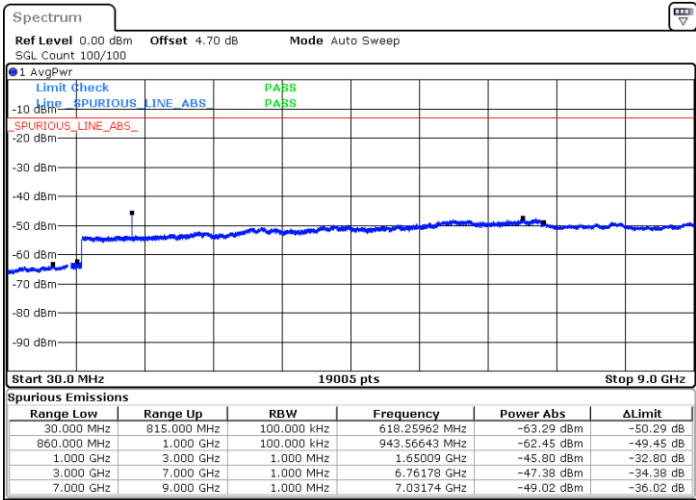
Date: 28.MAY.2021 04:30:50



LTE Band 5 / 10MHz

Lowest Channel / QPSK

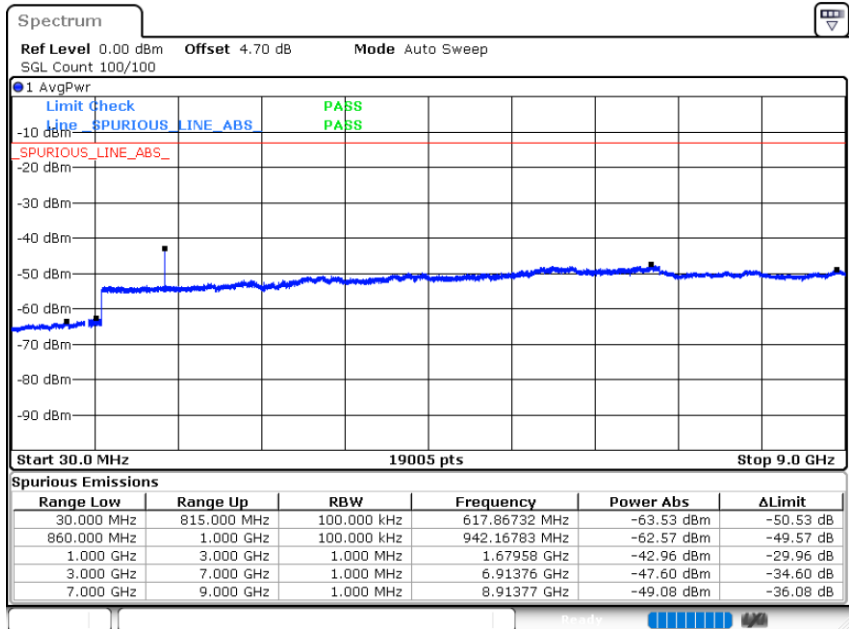
Middle Channel / QPSK



Date: 28.MAY.2021 04:47:27

Date: 28.MAY.2021 04:50:27

Highest Channel / QPSK



Date: 28.MAY.2021 05:00:48



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	0.0006	PASS
40	Normal Voltage	0.0037	
30	Normal Voltage	0.0004	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0032	
0	Normal Voltage	0.0042	
-10	Normal Voltage	0.0037	
-20	Normal Voltage	0.0006	
-30	Normal Voltage	0.0005	
20	Maximum Voltage	0.0037	
20	Normal Voltage	0.0029	
20	Battery End Point	0.0010	

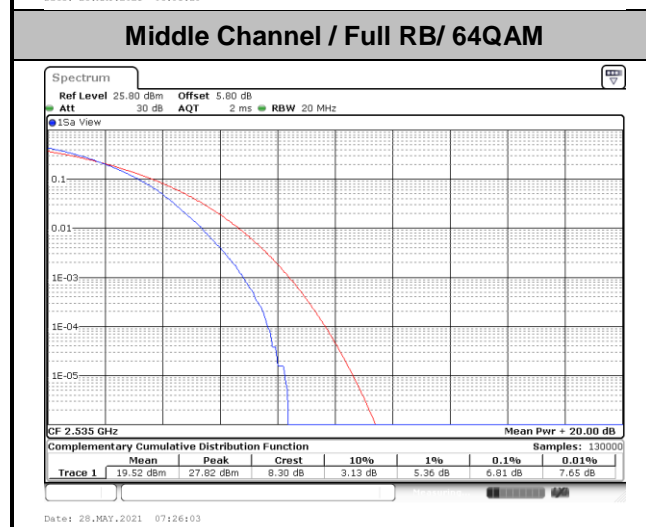
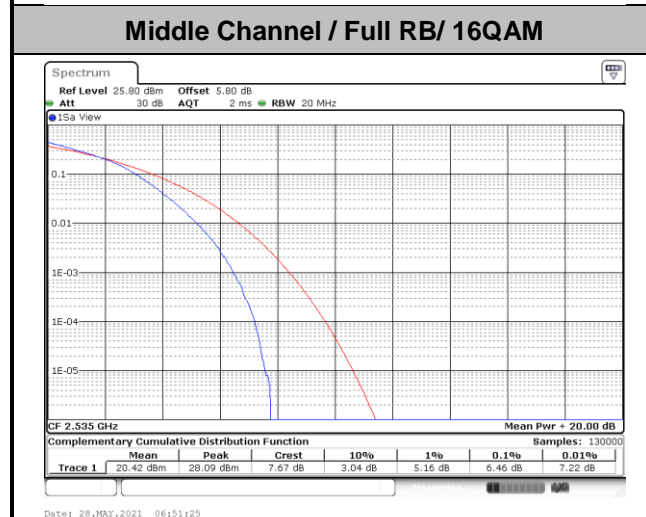
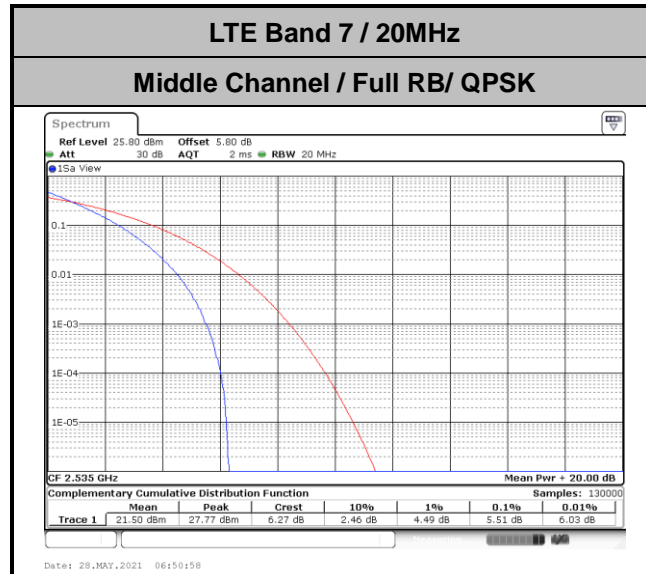
Note: Normal Voltage =4.2 V. ; Battery End Point (BEP) =3.8 V. ; Maximum Voltage =4.43 V.



## 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	5.51	6.46	6.81	<b>PASS</b>

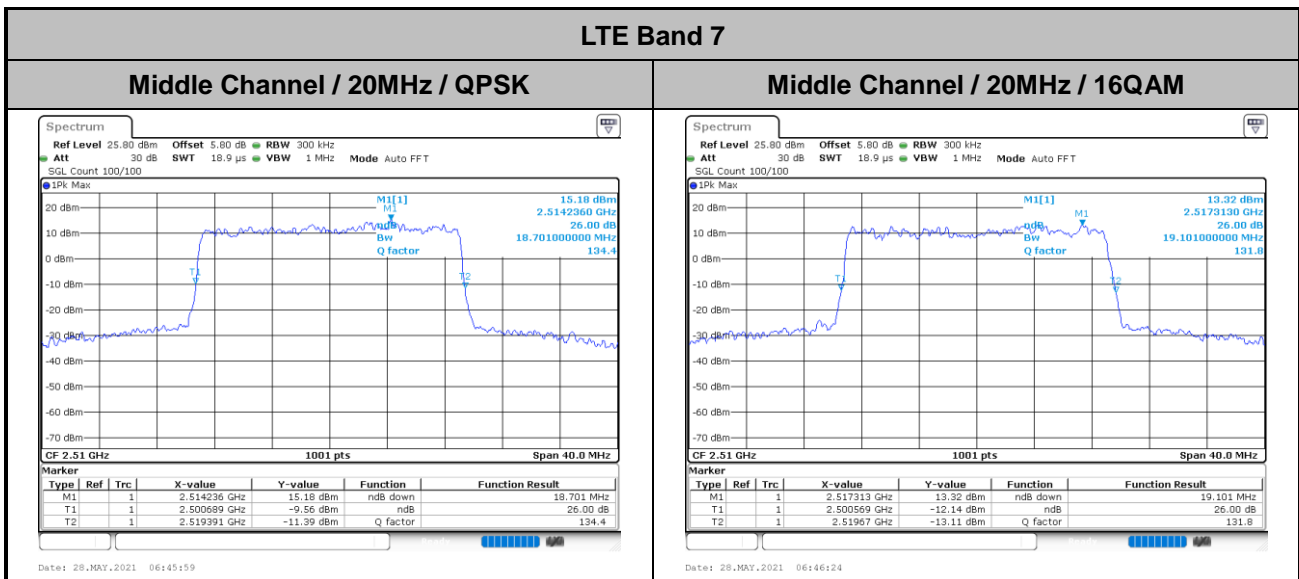






## 26dB Bandwidth

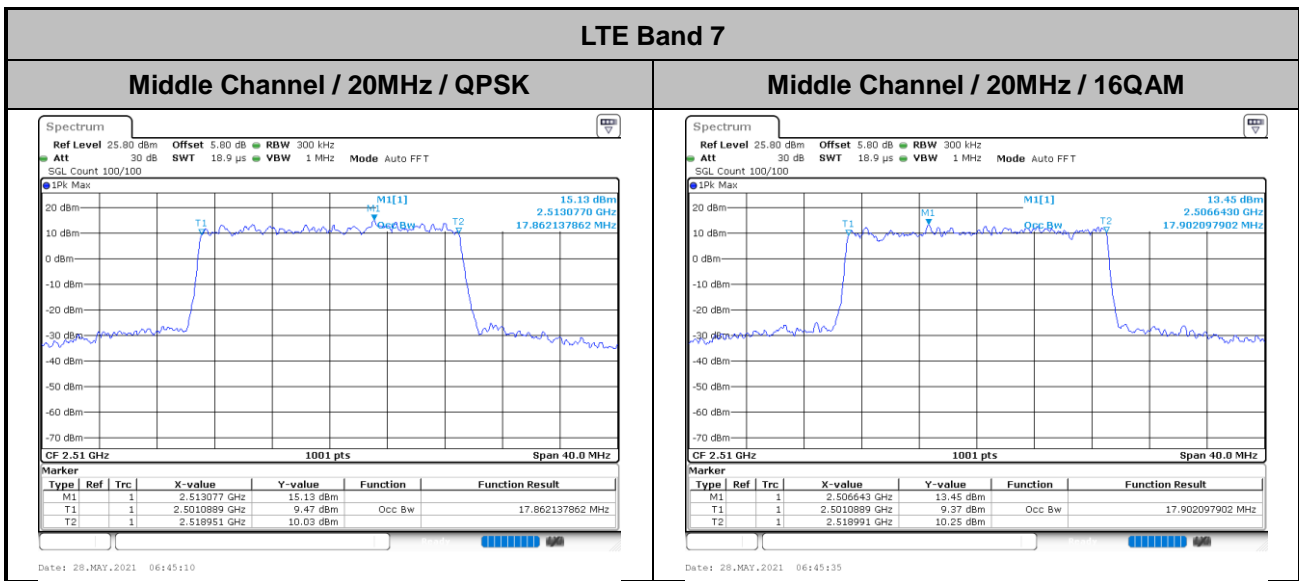
<b>Mode</b>	<b>LTE Band 7 : 26dB BW(MHz)</b>	
<b>BW</b>	<b>20MHz</b>	
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>
<b>Middle CH</b>	18.70	19.10





# Occupied Bandwidth

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

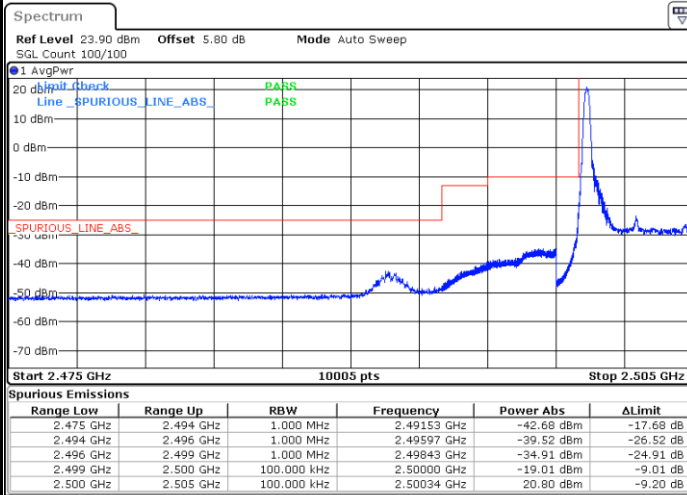




# Conducted Band Edge

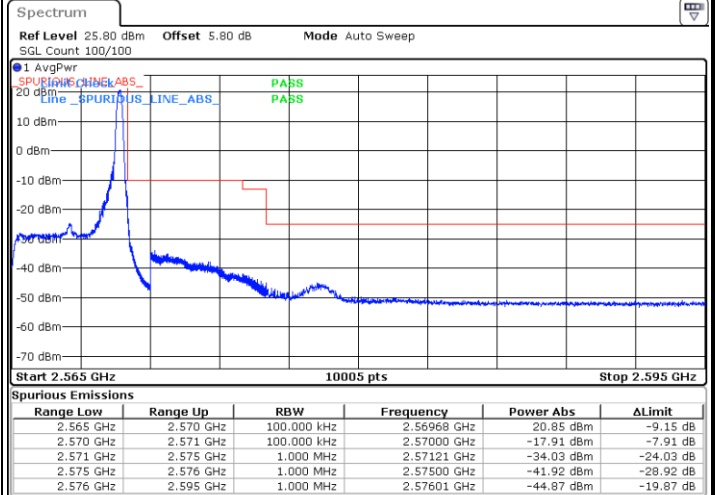
## LTE Band 7 / 5MHz / QPSK

### Lowest Band Edge / 1 RB



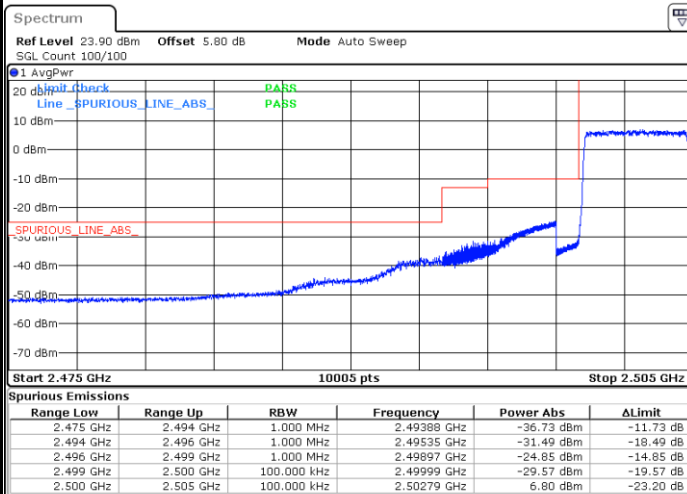
Date: 28.MAY.2021 05:46:51

### Highest Band Edge / 1 RB



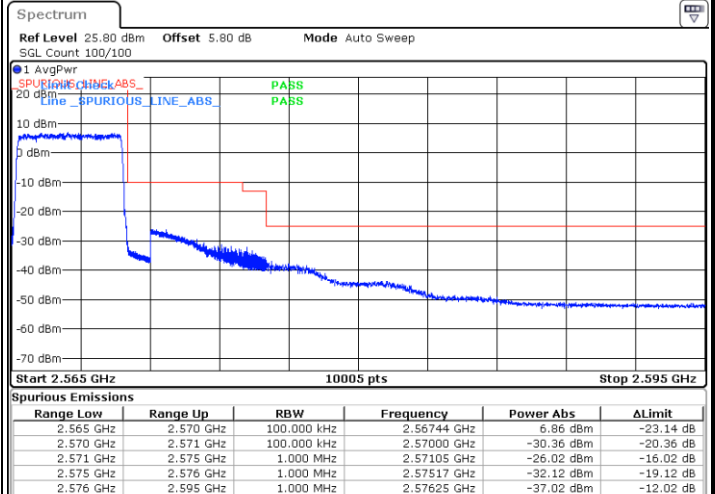
Date: 28.MAY.2021 05:52:29

### Lowest Band Edge / Full RB



Date: 28.MAY.2021 05:49:40

### Highest Band Edge / Full RB

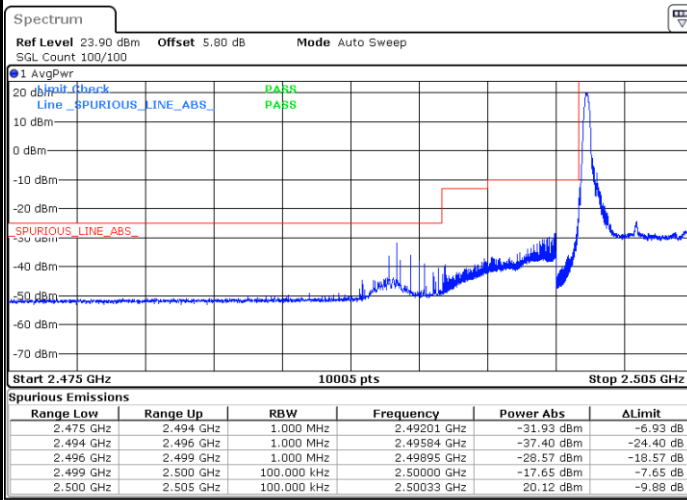


Date: 28.MAY.2021 05:55:18



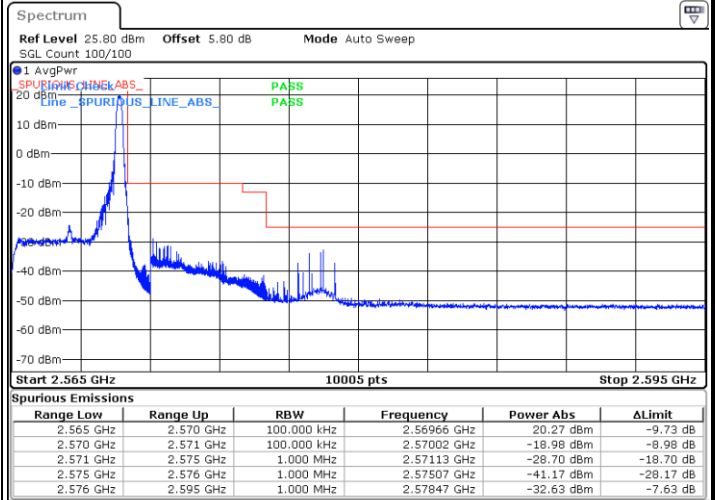
LTE Band 7 / 5MHz / 16QAM

Lowest Band Edge / 1RB



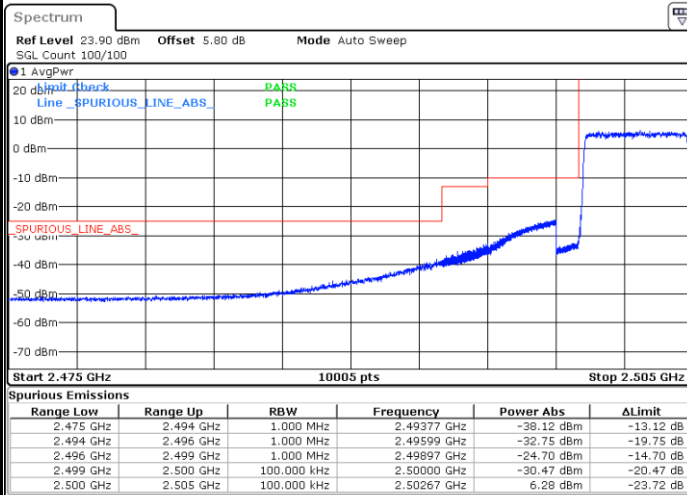
Date: 28.MAY.2021 05:48:15

Highest Band Edge / 1 RB



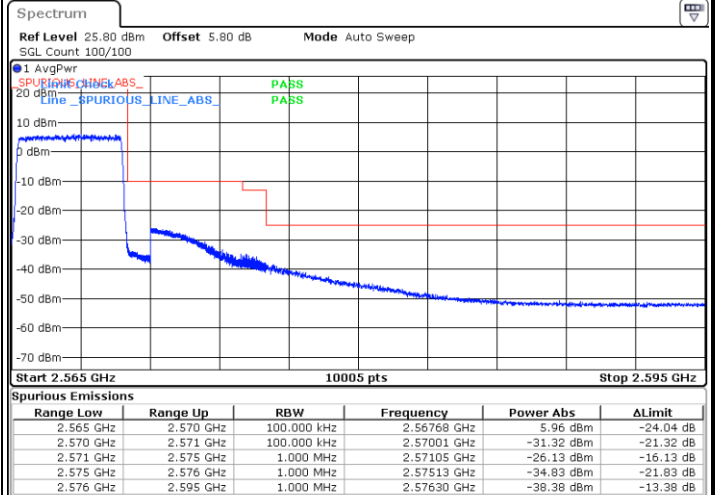
Date: 28.MAY.2021 05:53:53

Lowest Band Edge / Full RB



Date: 28.MAY.2021 05:51:05

Highest Band Edge / Full RB

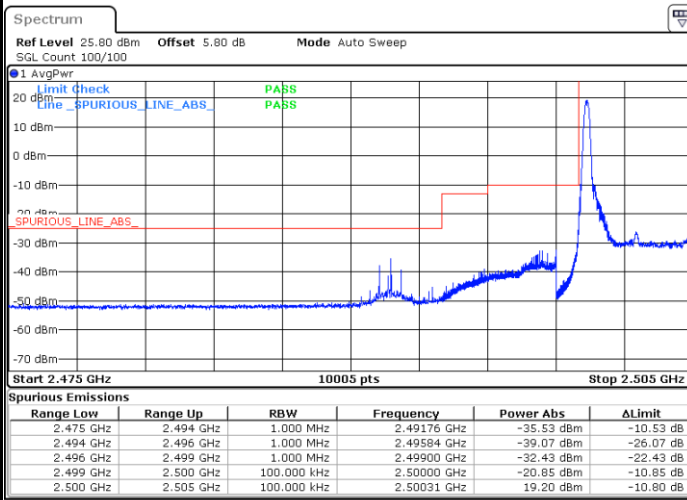


Date: 28.MAY.2021 05:56:42



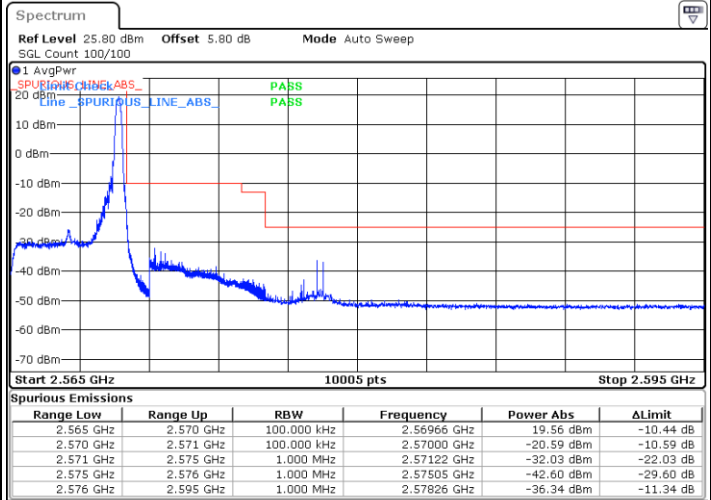
LTE Band 7 / 5MHz / 64QAM

Lowest Band Edge / 1RB



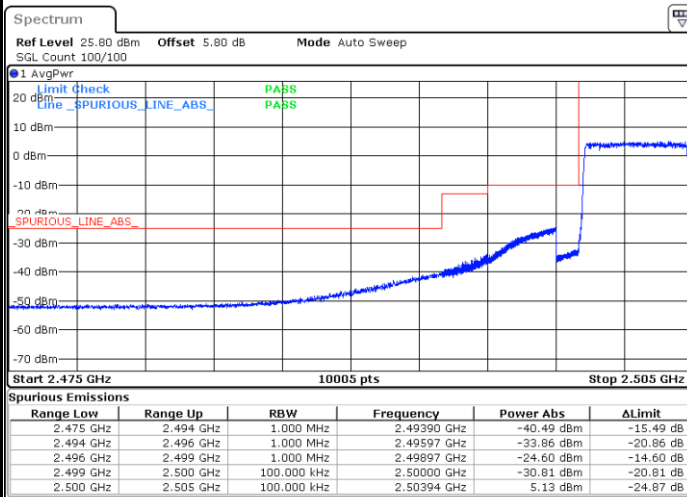
Date: 28.MAY.2021 06:52:53

Highest Band Edge / 1 RB



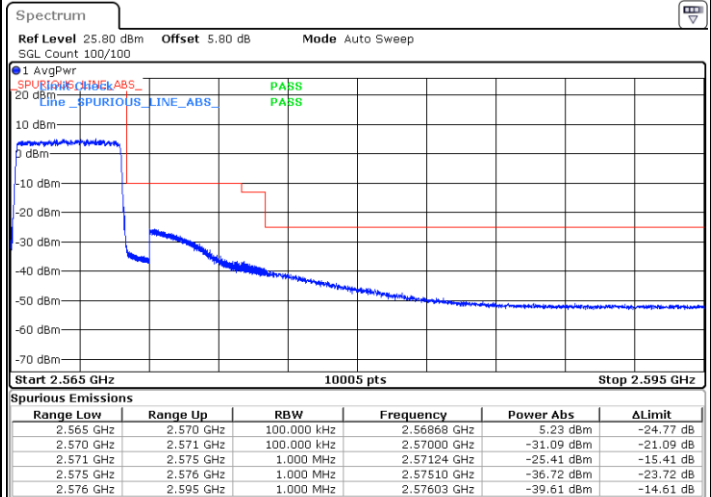
Date: 28.MAY.2021 06:55:41

Lowest Band Edge / Full RB



Date: 28.MAY.2021 06:54:17

Highest Band Edge / Full RB

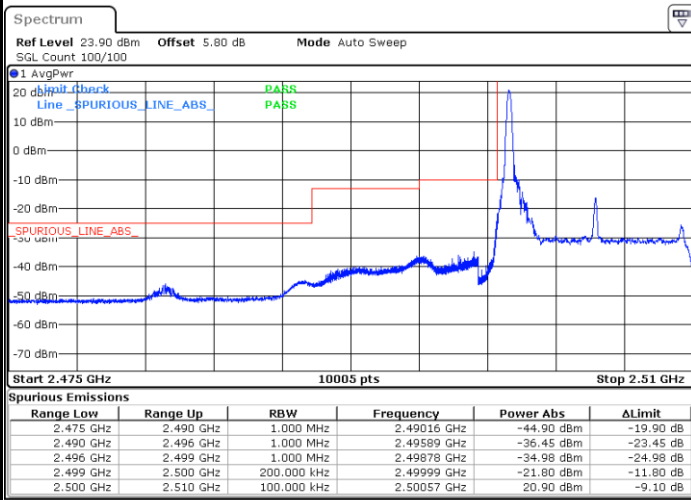


Date: 28.MAY.2021 06:57:06



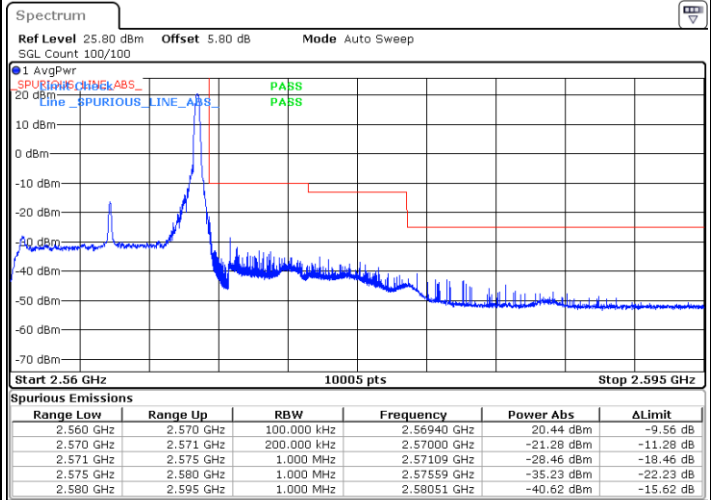
LTE Band 7 / 10MHz / QPSK

Lowest Band Edge / 1 RB



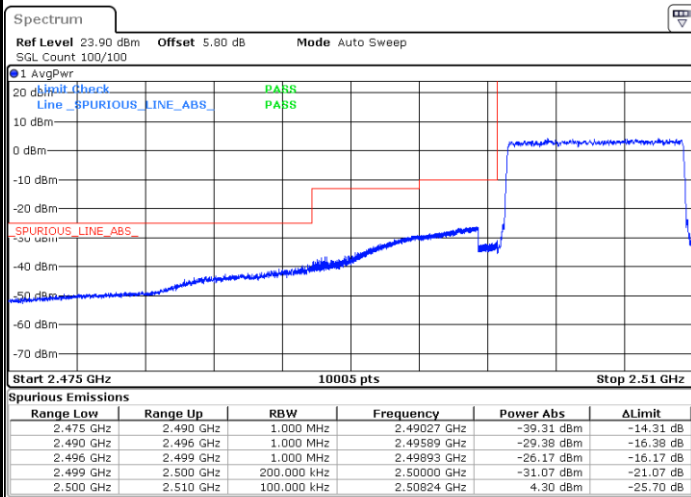
Date: 28.MAY.2021 05:58:07

Highest Band Edge / 1 RB



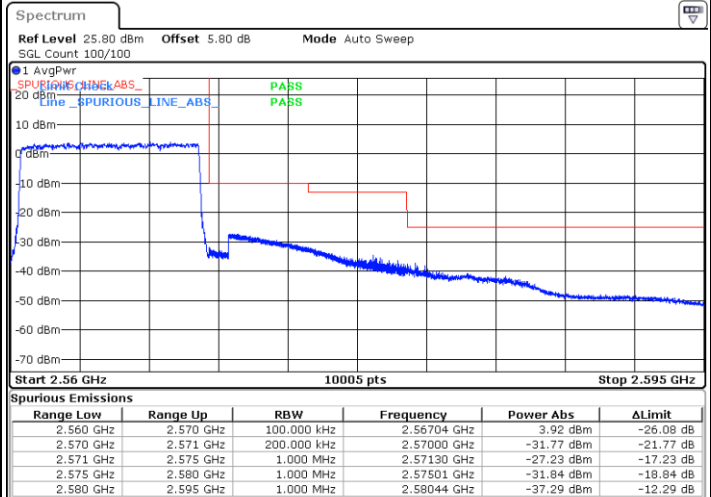
Date: 28.MAY.2021 06:03:45

Lowest Band Edge / Full RB



Date: 28.MAY.2021 06:00:56

Highest Band Edge / Full RB



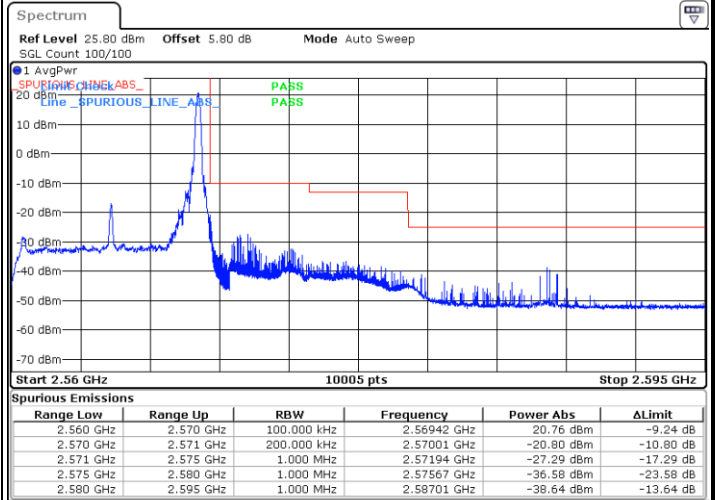
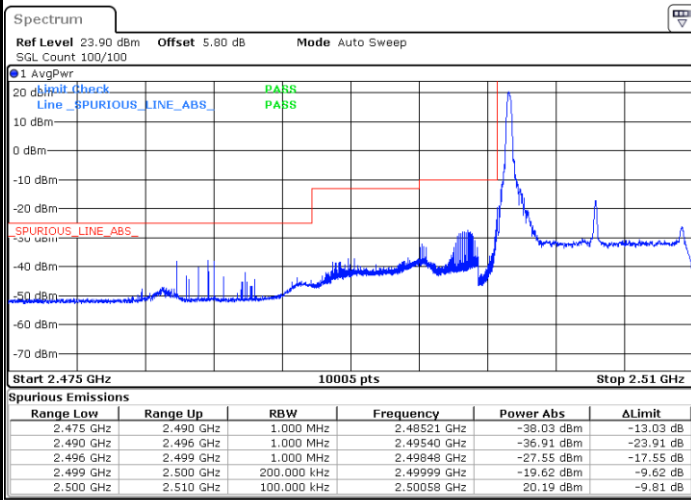
Date: 28.MAY.2021 06:06:33



LTE Band 7 / 10MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

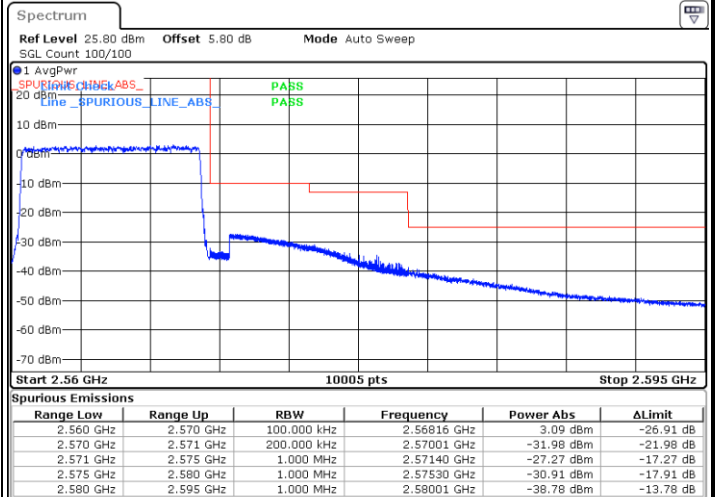
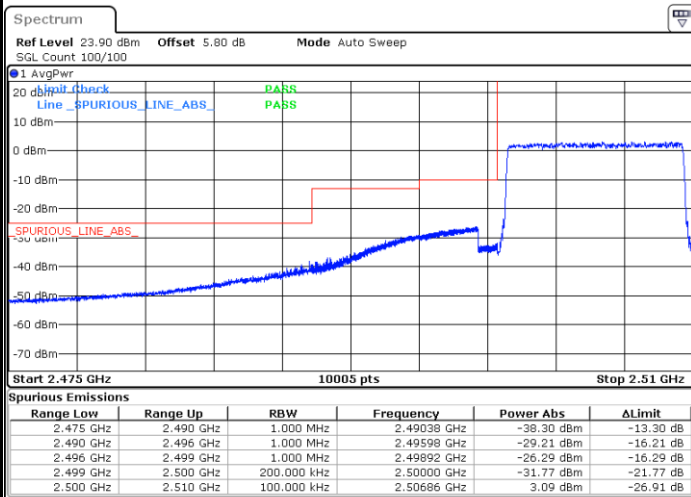


Date: 28.MAY.2021 05:59:32

Date: 28.MAY.2021 06:05:09

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



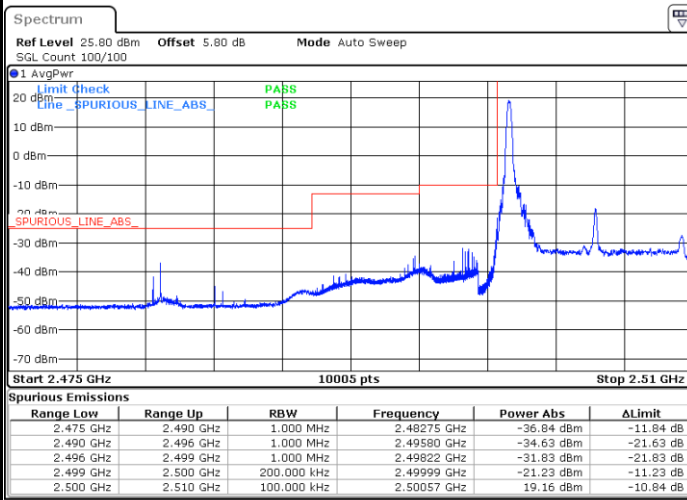
Date: 28.MAY.2021 06:02:20

Date: 28.MAY.2021 06:07:57



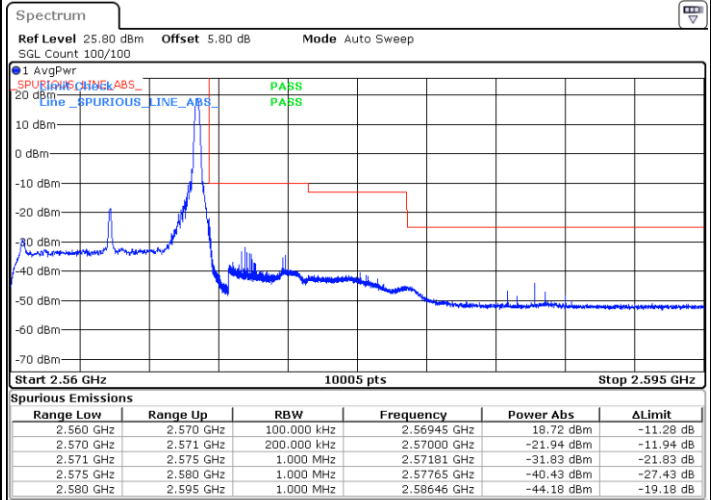
LTE Band 7 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



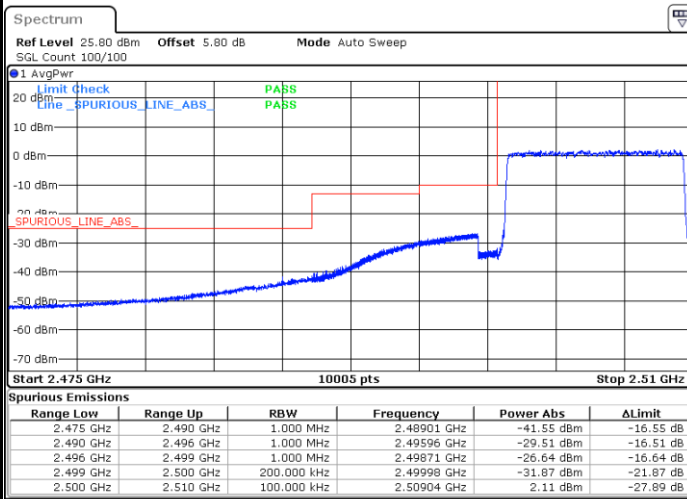
Date: 28.MAY.2021 06:58:34

Highest Band Edge / 1 RB



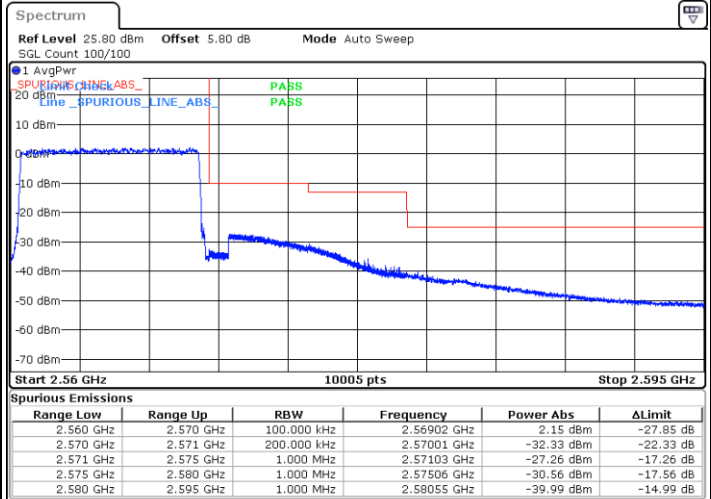
Date: 28.MAY.2021 07:01:23

Lowest Band Edge / Full RB



Date: 28.MAY.2021 06:59:59

Highest Band Edge / Full RB



Date: 28.MAY.2021 07:20:51

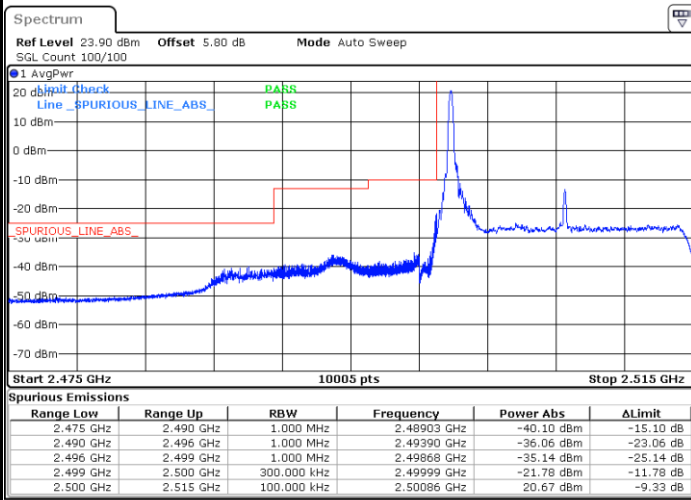




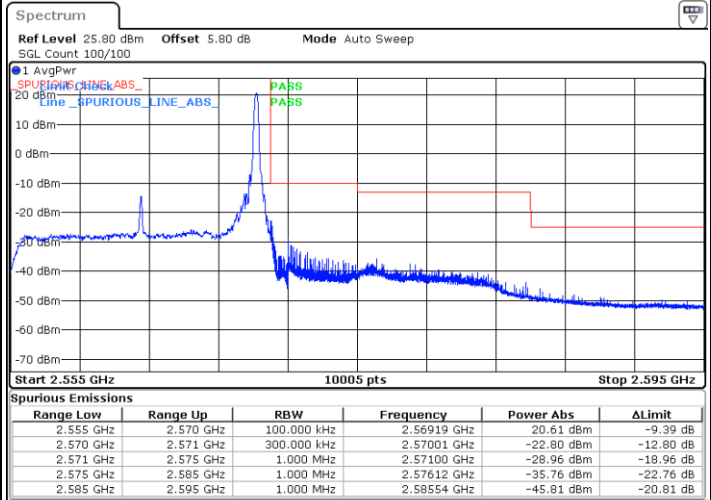
LTE Band 7 / 15MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



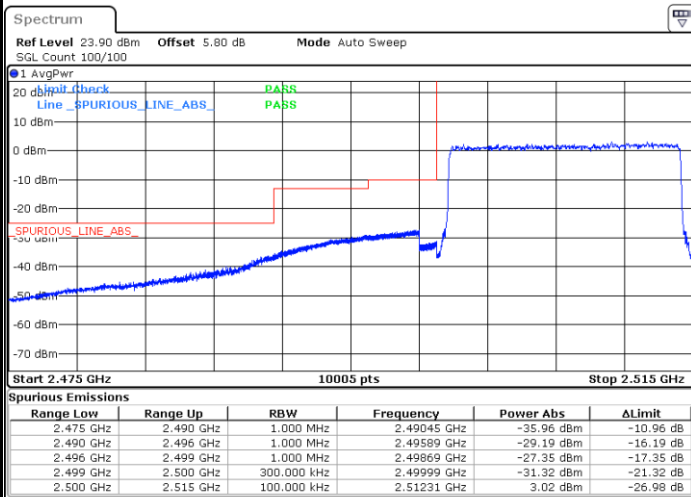
Date: 28.MAY.2021 06:09:59



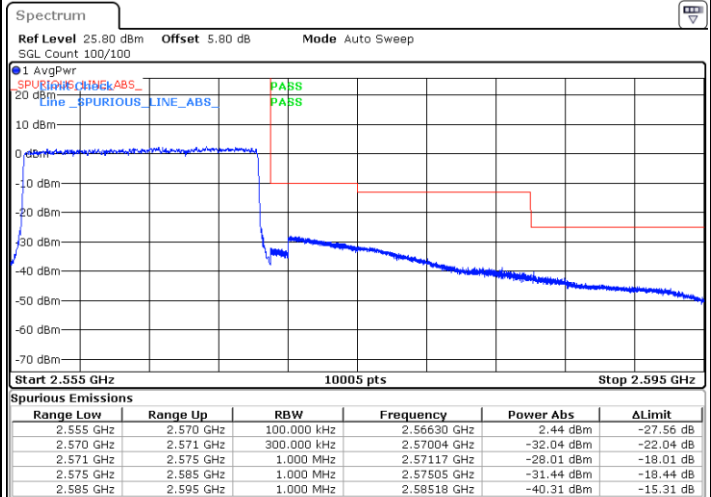
Date: 28.MAY.2021 06:15:37

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 28.MAY.2021 06:12:48

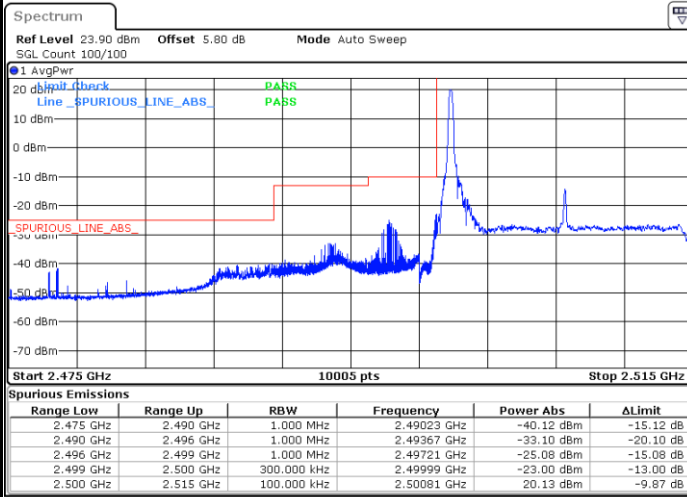


Date: 28.MAY.2021 06:18:26



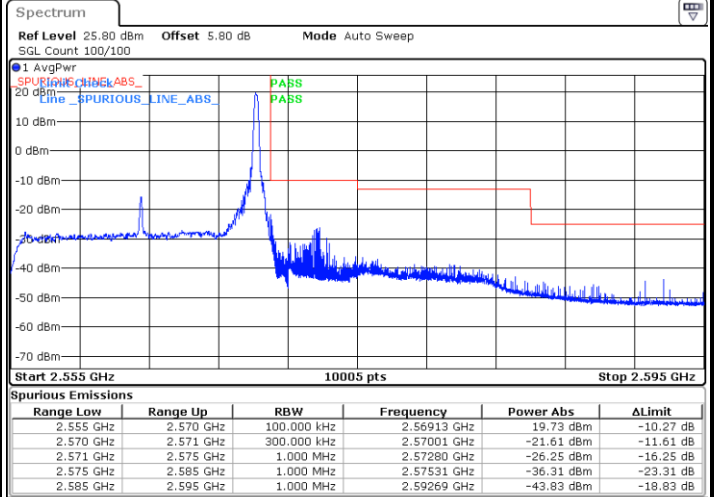
LTE Band 7 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



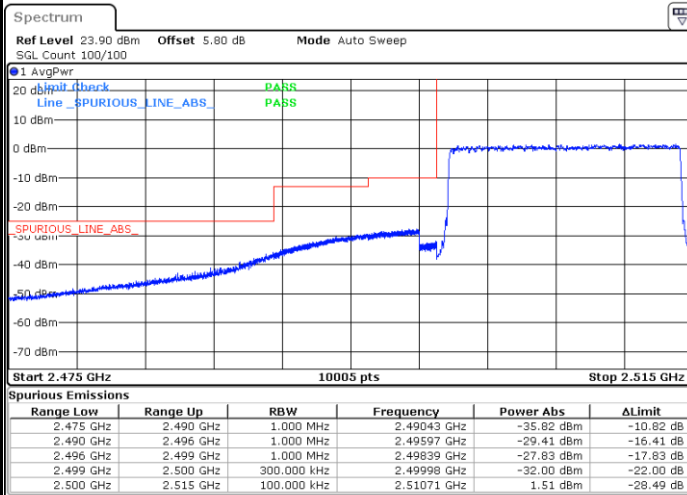
Date: 28.MAY.2021 06:11:23

Highest Band Edge / 1 RB



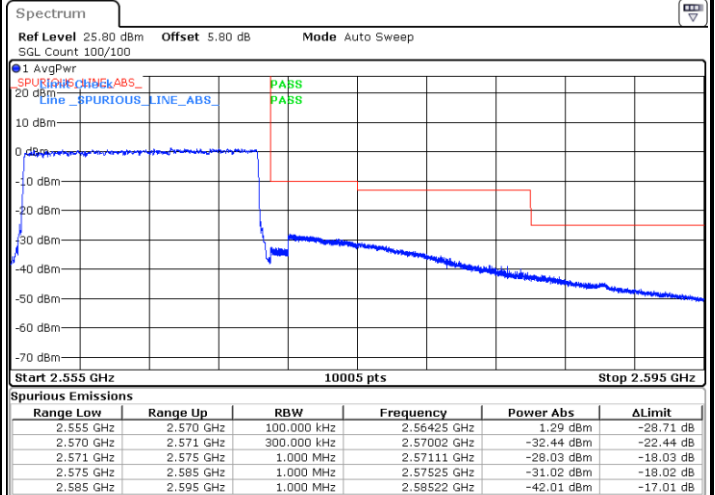
Date: 28.MAY.2021 06:17:01

Lowest Band Edge / Full RB



Date: 28.MAY.2021 06:14:13

Highest Band Edge / Full RB

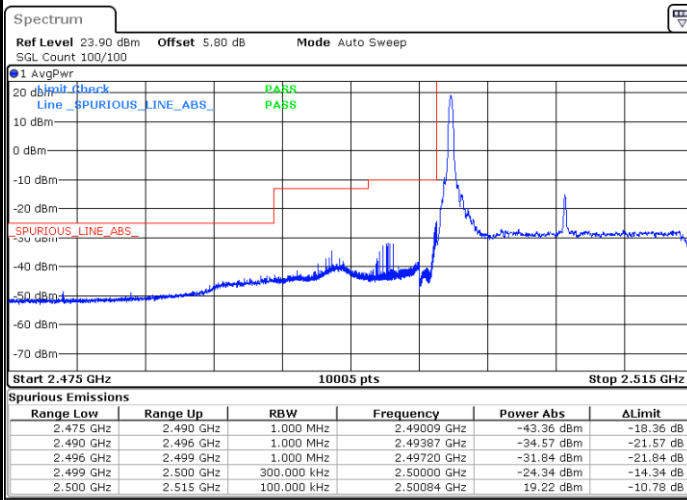


Date: 28.MAY.2021 06:19:50



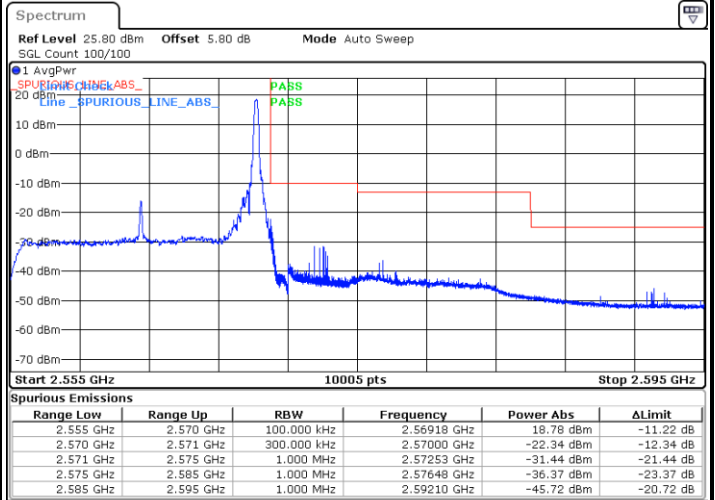
LTE Band 7 / 15MHz / 64QAM

Lowest Band Edge / 1 RB



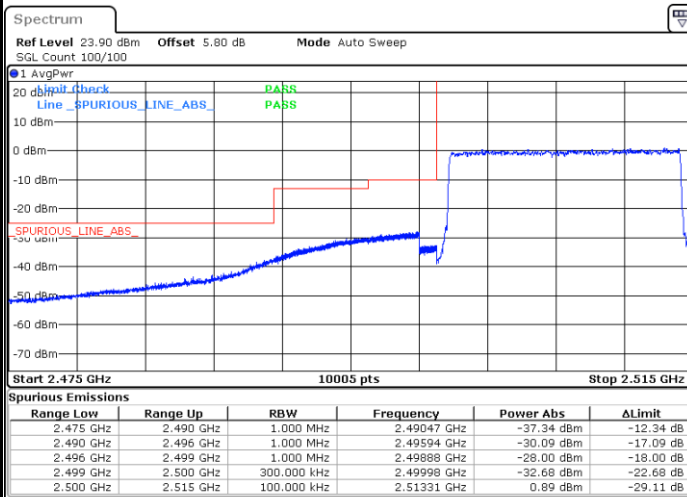
Date: 28.MAY.2021 07:21:35

Highest Band Edge / 1 RB



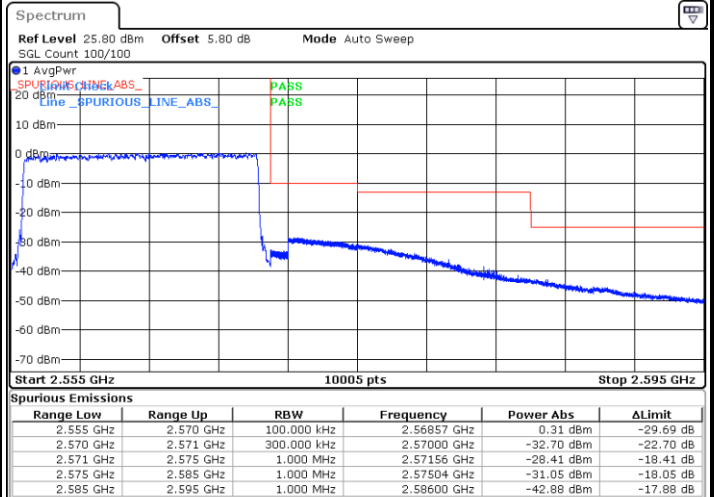
Date: 28.MAY.2021 07:23:13

Lowest Band Edge / Full RB



Date: 28.MAY.2021 07:22:05

Highest Band Edge / Full RB



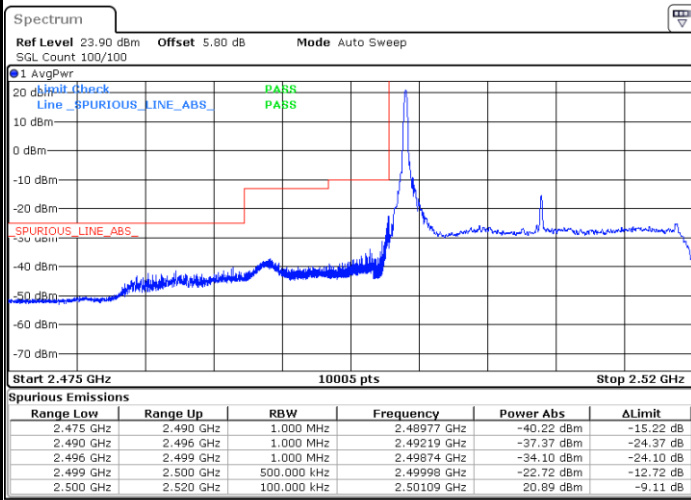
Date: 28.MAY.2021 07:22:38



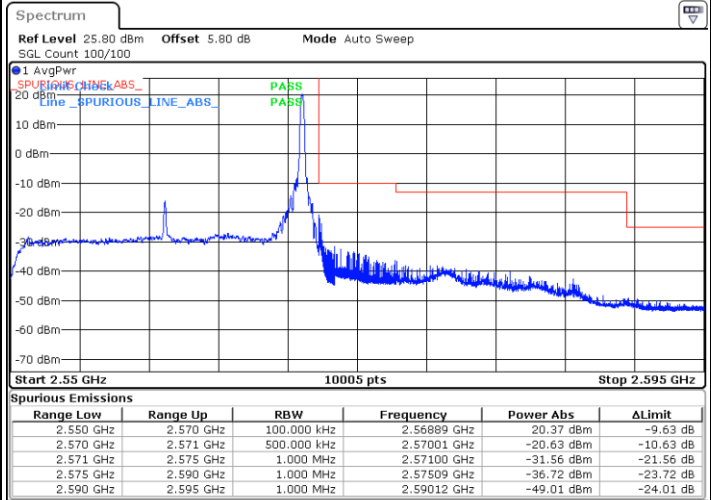
LTE Band 7 / 20MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



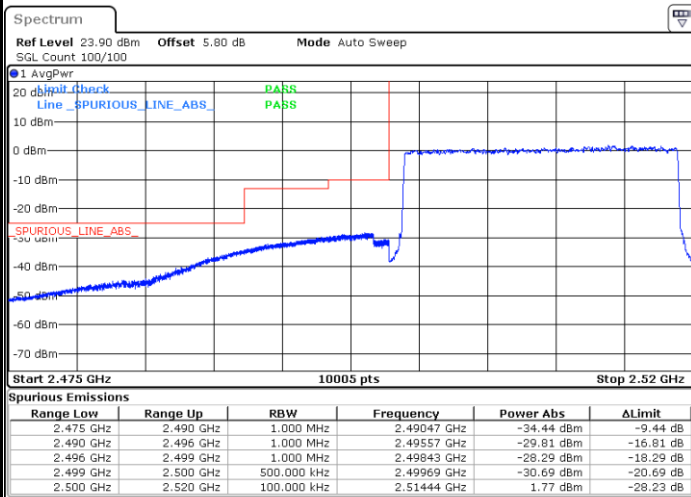
Date: 28.MAY.2021 06:22:22



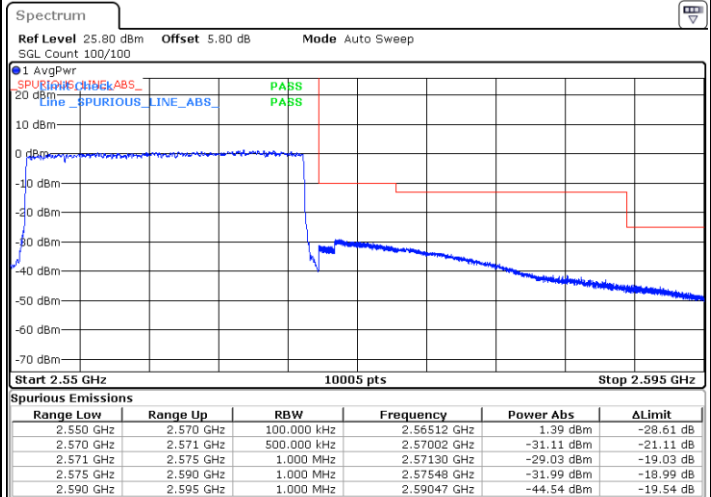
Date: 28.MAY.2021 06:28:00

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 28.MAY.2021 06:25:11

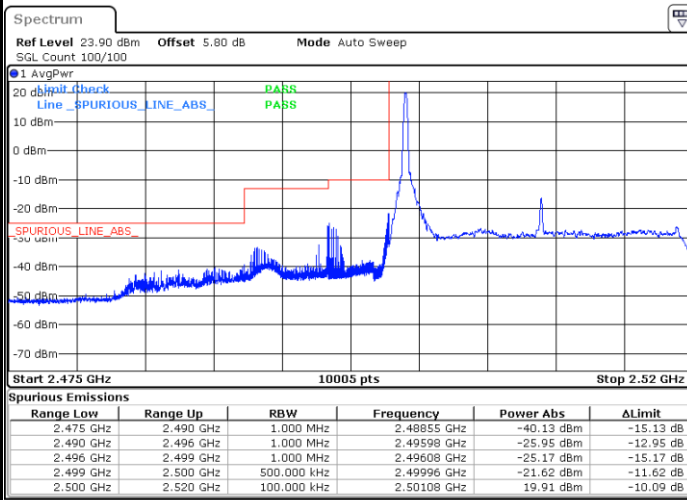


Date: 28.MAY.2021 06:32:13



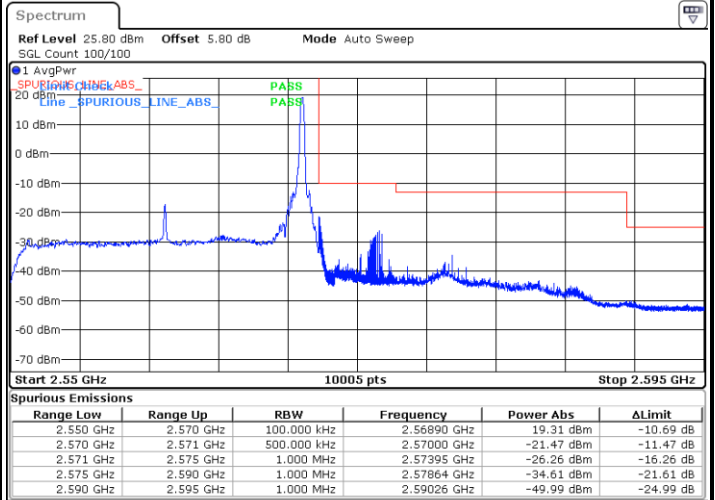
LTE Band 7 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



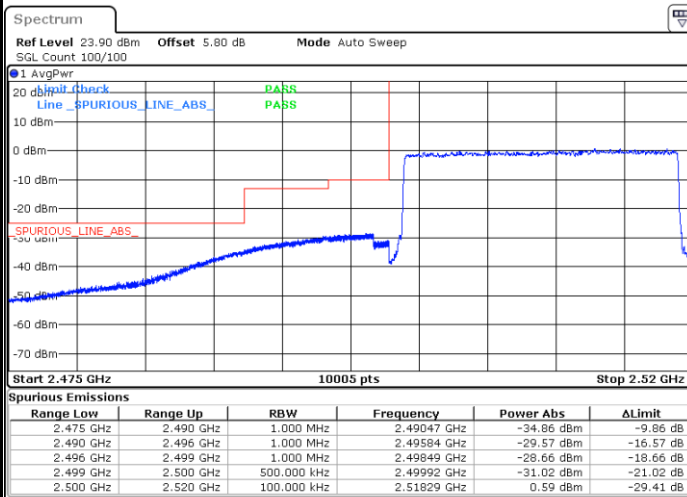
Date: 28.MAY.2021 06:23:47

Highest Band Edge / 1 RB



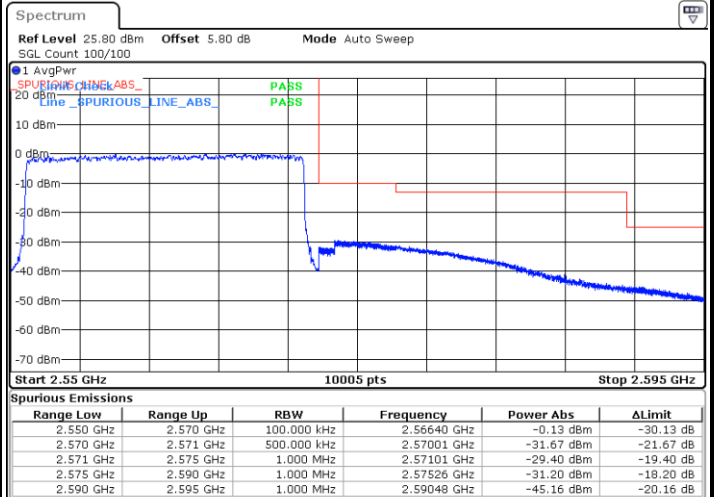
Date: 28.MAY.2021 06:29:25

Lowest Band Edge / Full RB



Date: 28.MAY.2021 06:26:36

Highest Band Edge / Full RB

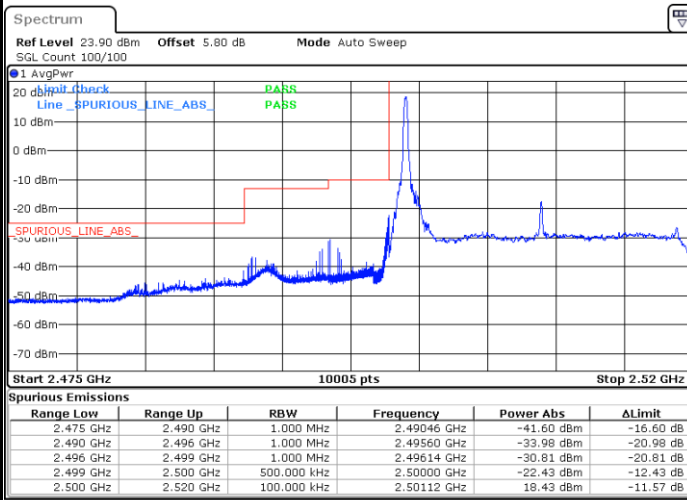


Date: 28.MAY.2021 06:30:49



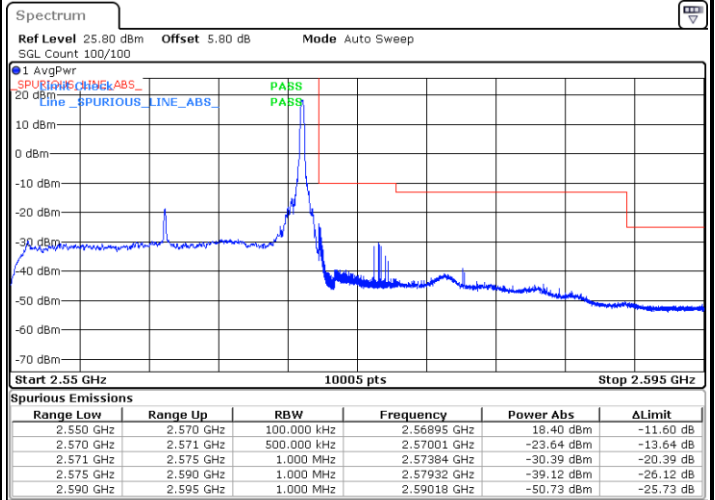
LTE Band 7 / 20MHz / 64QAM

Lowest Band Edge / 1 RB



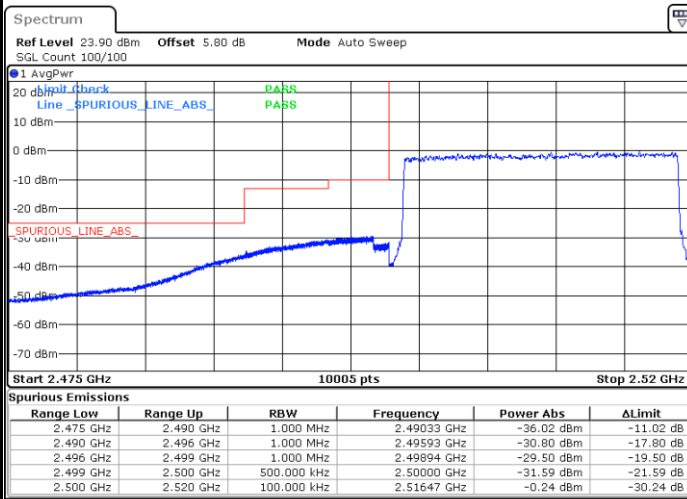
Date: 28.MAY.2021 07:24:10

Highest Band Edge / 1 RB



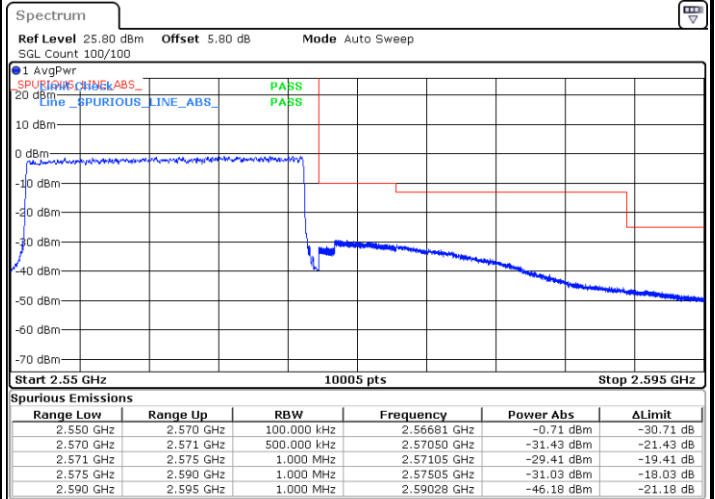
Date: 28.MAY.2021 07:25:34

Lowest Band Edge / Full RB



Date: 28.MAY.2021 07:24:37

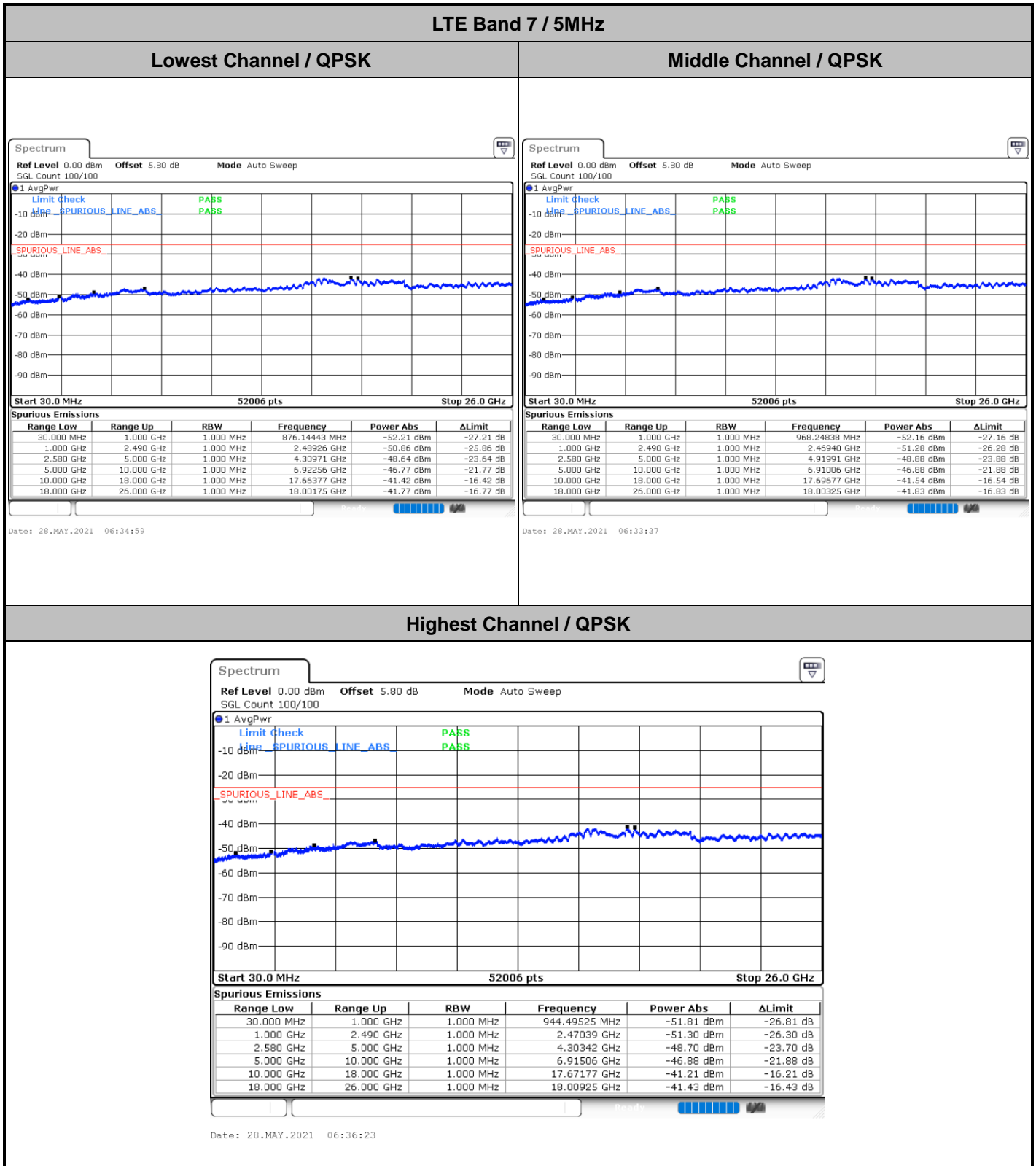
Highest Band Edge / Full RB



Date: 28.MAY.2021 07:25:06



# Conducted Spurious Emission

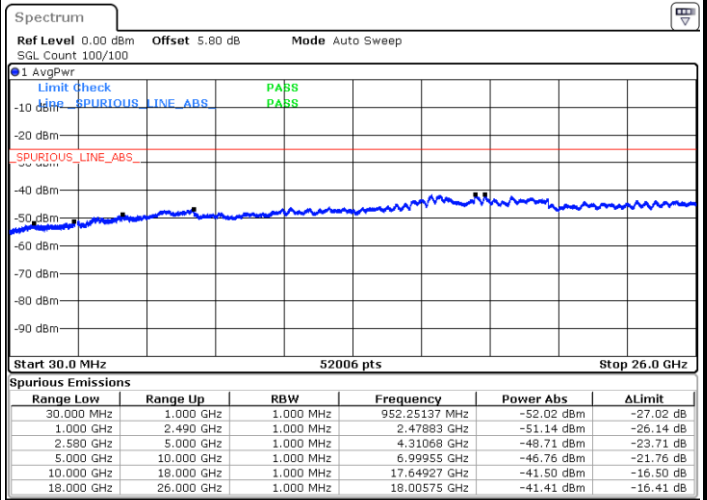
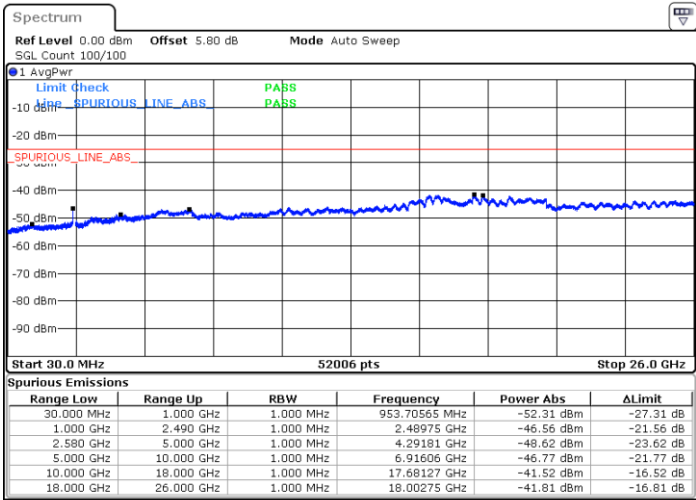




LTE Band 7 / 10MHz

Lowest Channel / QPSK

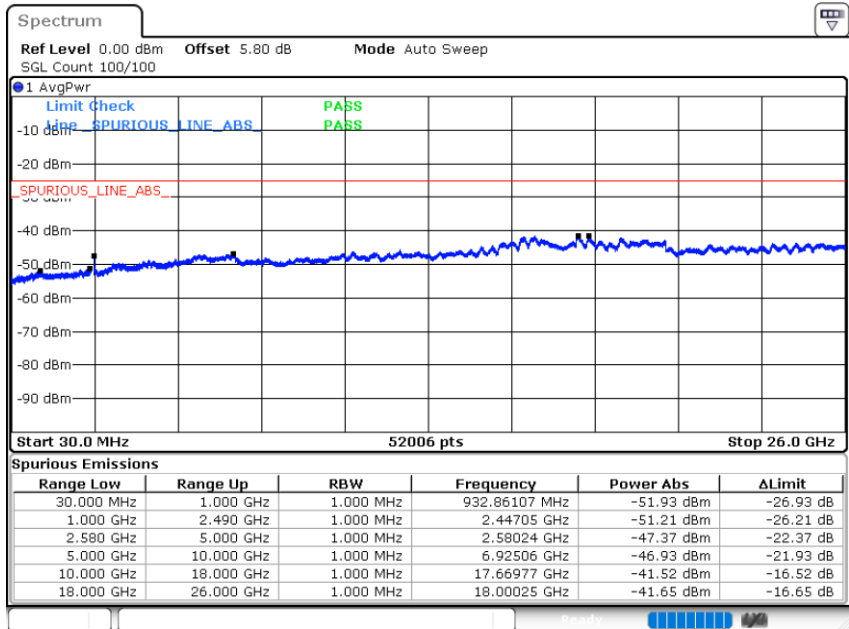
Middle Channel / QPSK



Date: 28.MAY.2021 06:37:46

Date: 28.MAY.2021 06:39:09

Highest Channel / QPSK



Date: 28.MAY.2021 06:40:32

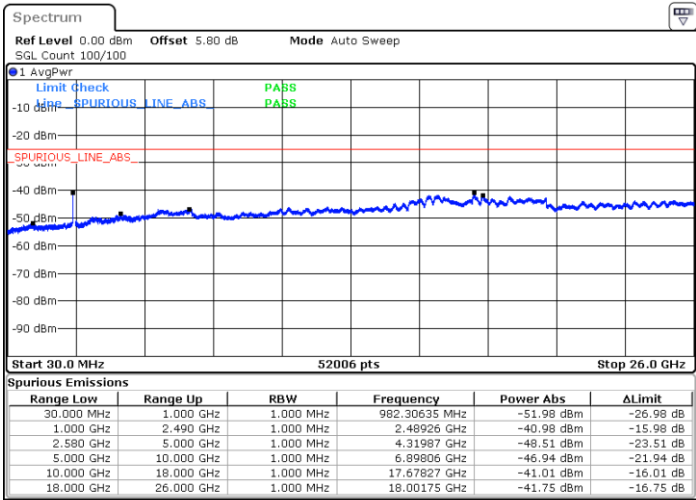




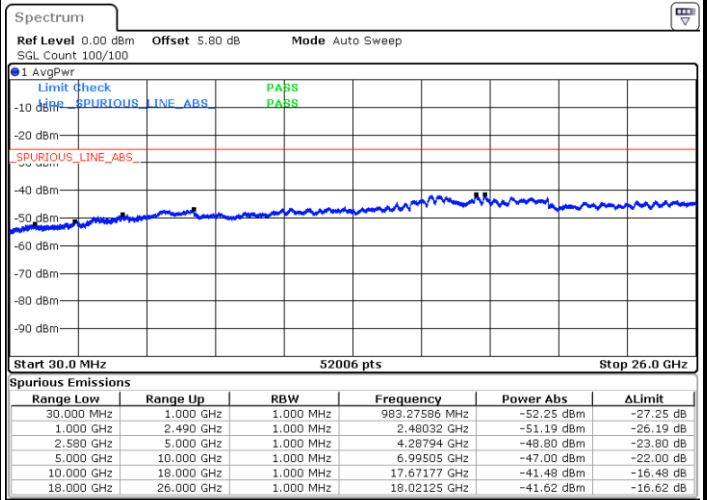
LTE Band 7 / 15MHz

Lowest Channel / QPSK

Middle Channel / QPSK

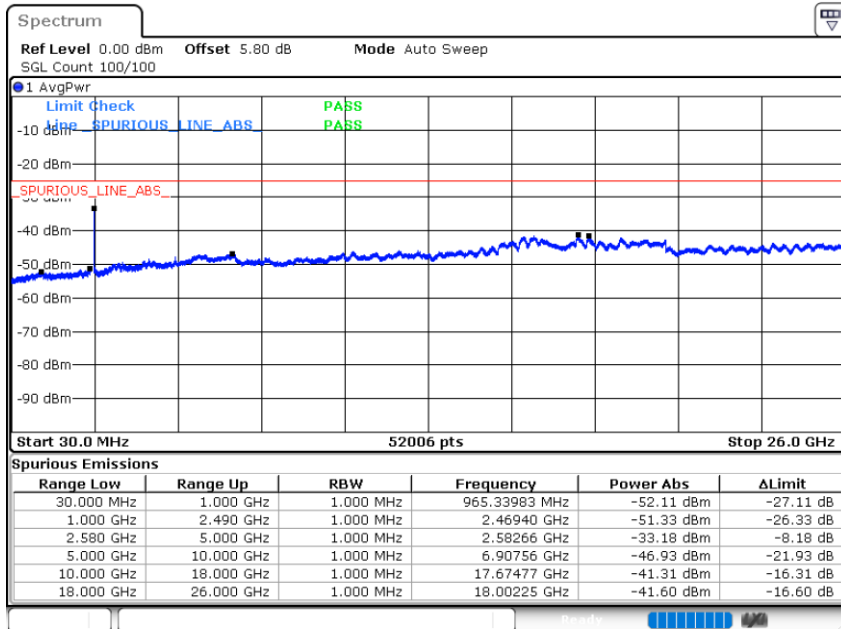


Date: 28.MAY.2021 06:41:59



Date: 28.MAY.2021 06:43:22

Highest Channel / QPSK



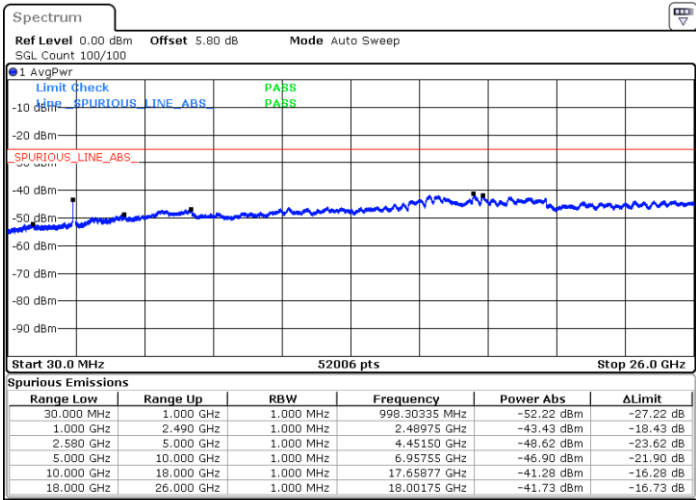
Date: 28.MAY.2021 06:44:44



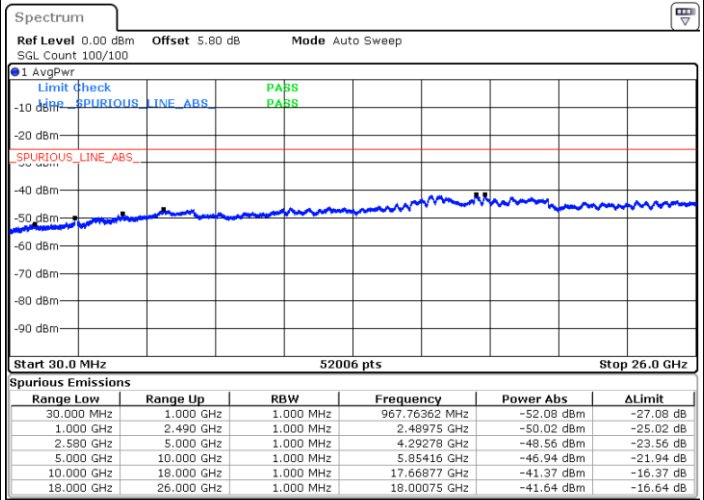
LTE Band 7 / 20MHz

Lowest Channel / QPSK

Middle Channel / QPSK

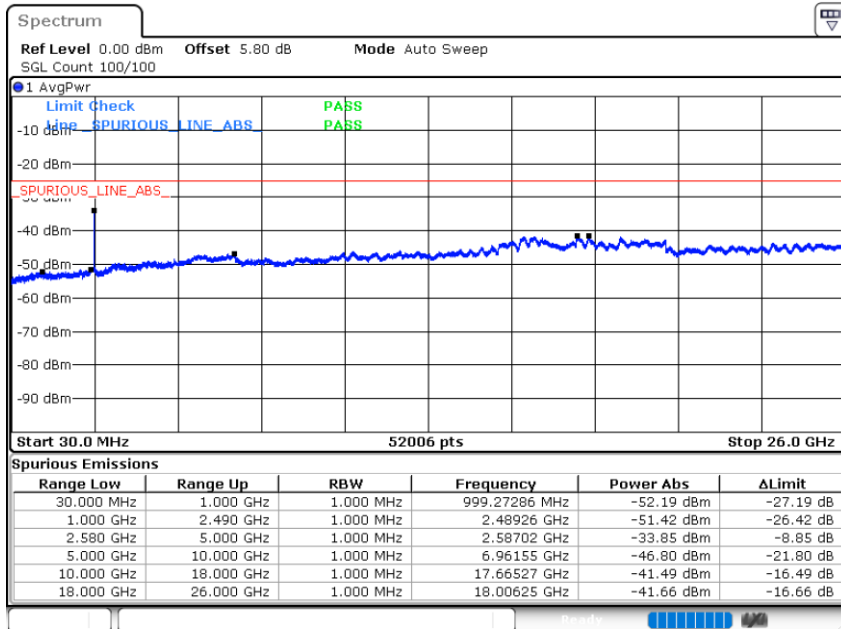


Date: 28.MAY.2021 06:47:46



Date: 28.MAY.2021 06:49:09

Highest Channel / QPSK



Date: 28.MAY.2021 06:50:32



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	0.0019	PASS
40	Normal Voltage	0.0021	
30	Normal Voltage	0.0008	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0019	
0	Normal Voltage	0.0023	
-10	Normal Voltage	0.0004	
-20	Normal Voltage	0.0019	
-30	Normal Voltage	0.0008	
20	Maximum Voltage	0.0007	
20	Normal Voltage	0.0020	
20	Battery End Point	0.0018	

Note:

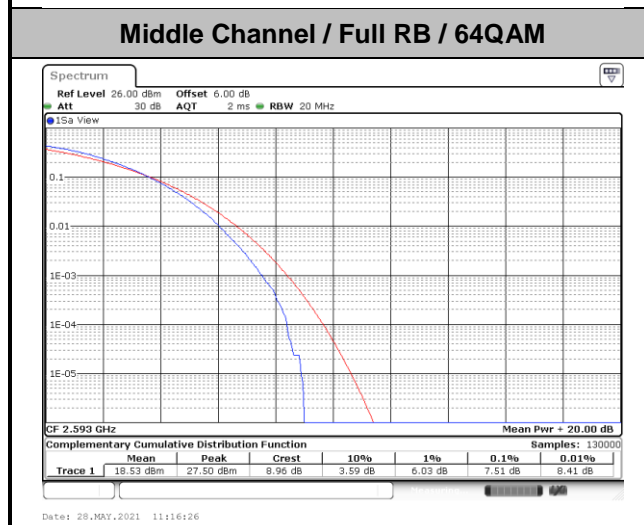
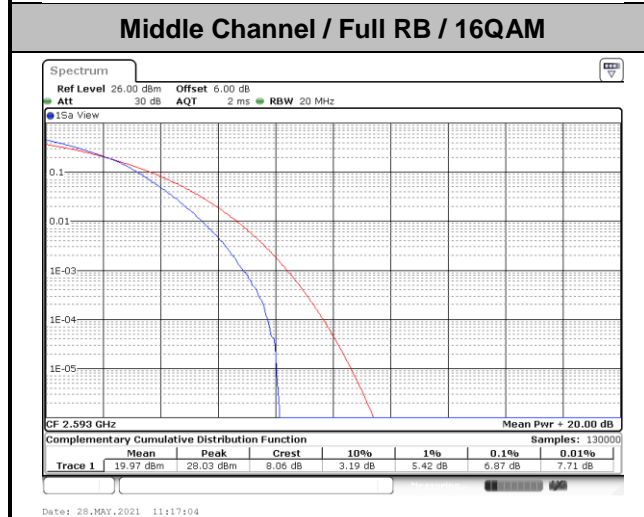
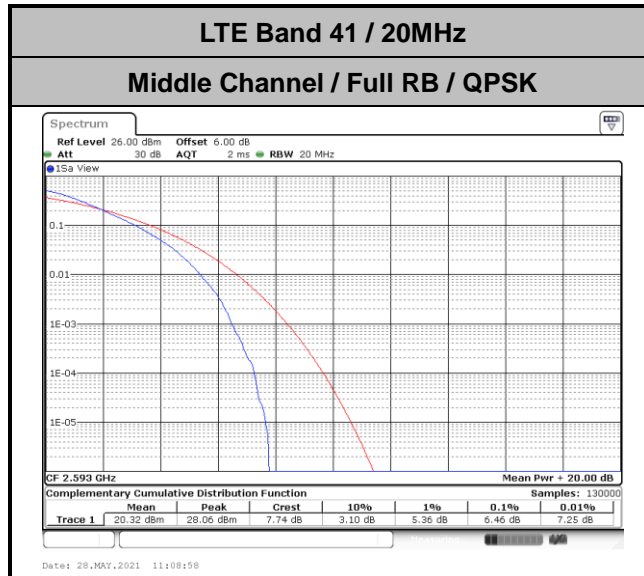
1. Normal Voltage =4.2 V. ; Battery End Point (BEP) =3.8 V. ; Maximum Voltage =4.43 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



## LTE Band 41

### Peak-to-Average Ratio

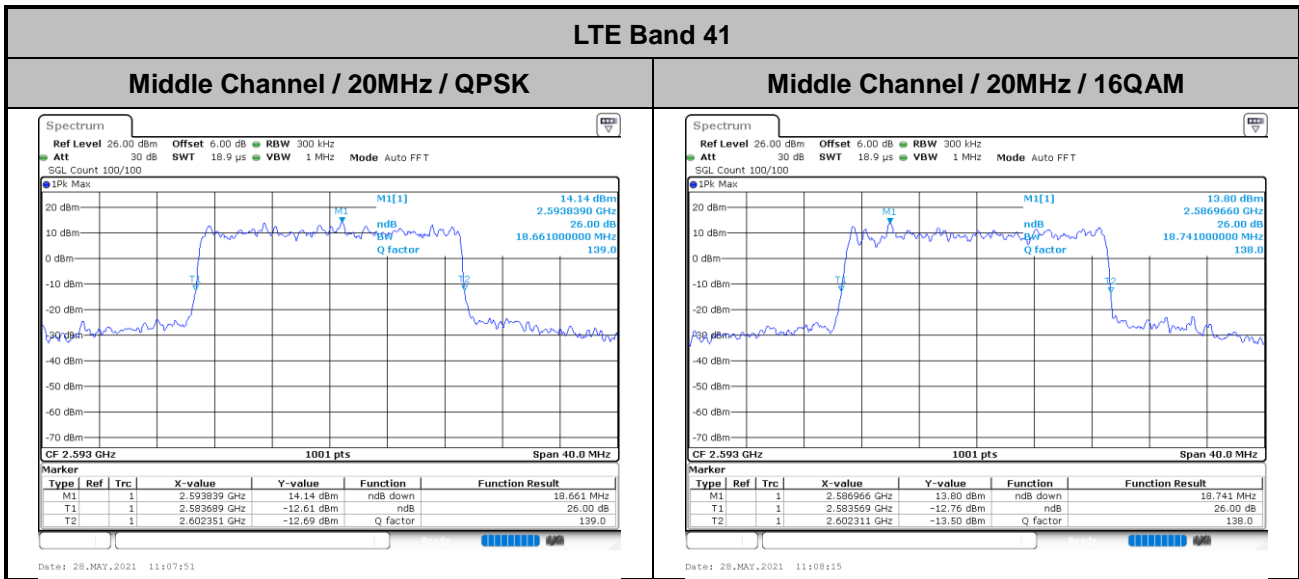
Mode	LTE Band 41 / 20MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	6.46	6.87	7.51	<b>PASS</b>





**26dB Bandwidth**

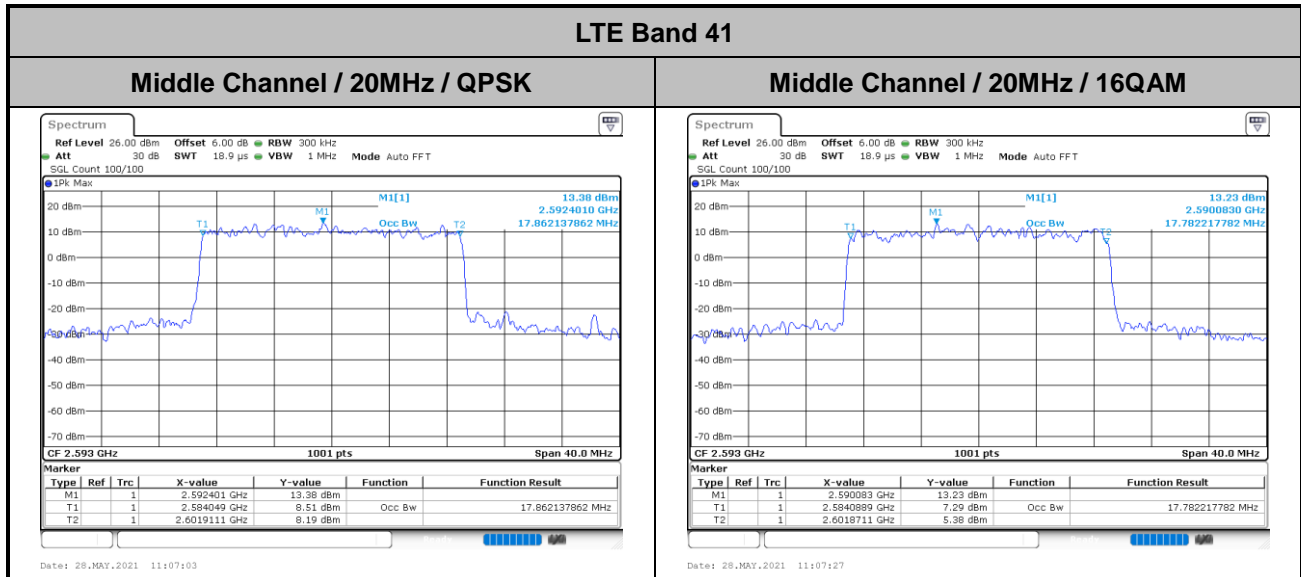
Mode	LTE Band 41 : 26dB BW(MHz)	
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	18.66	18.74





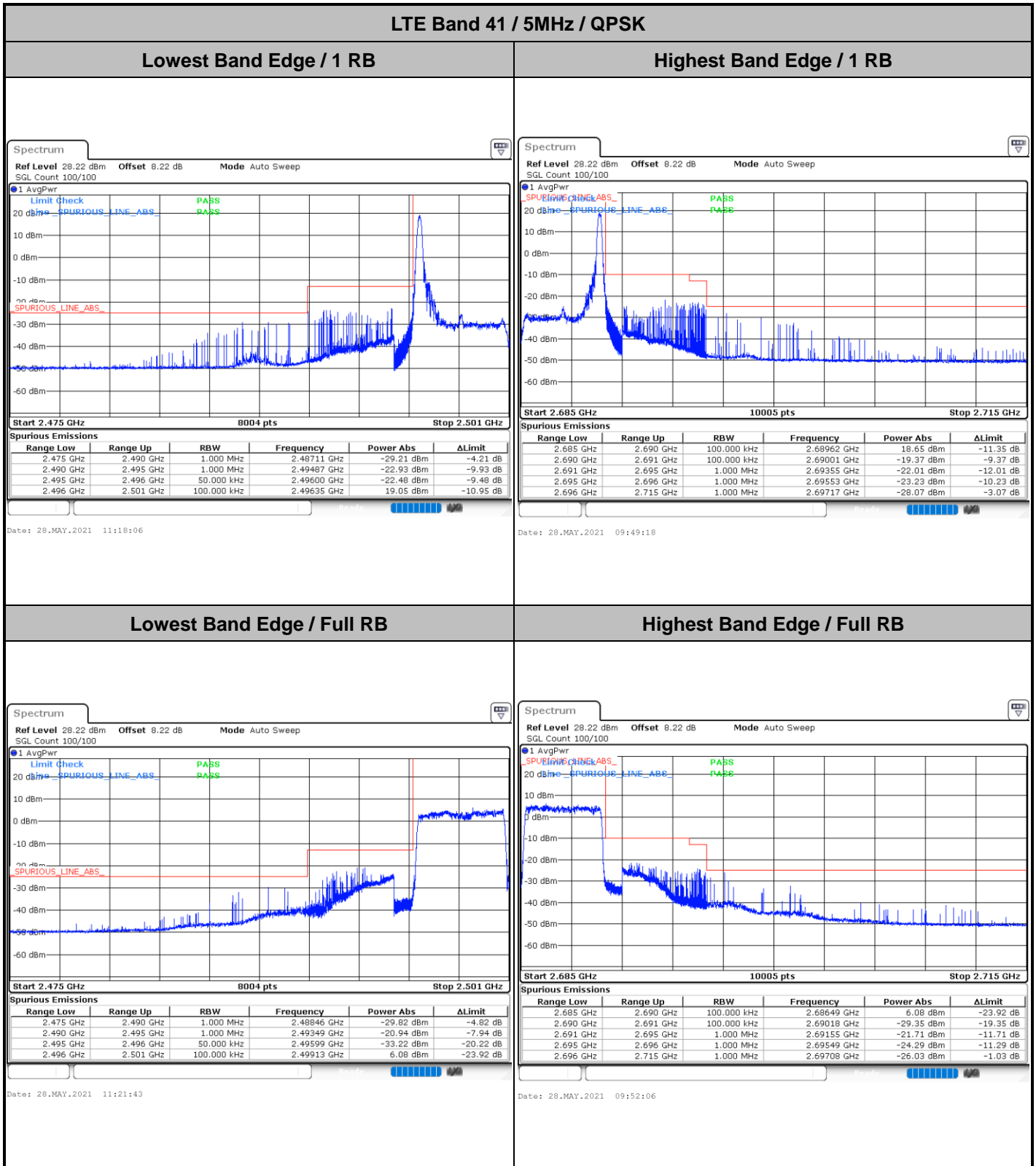
# Occupied Bandwidth

Mode	LTE Band 41 : 99%OBW(MHz)	
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	17.86	17.78





# Conducted Band Edge

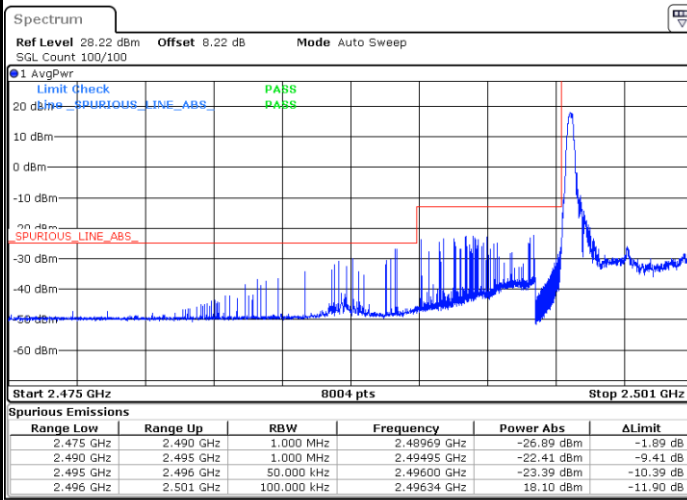






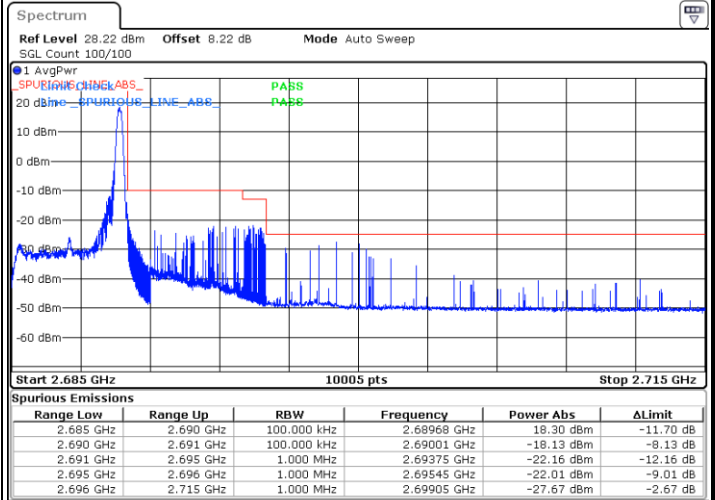
LTE Band 41 / 5MHz / 16QAM

Lowest Band Edge / 1RB



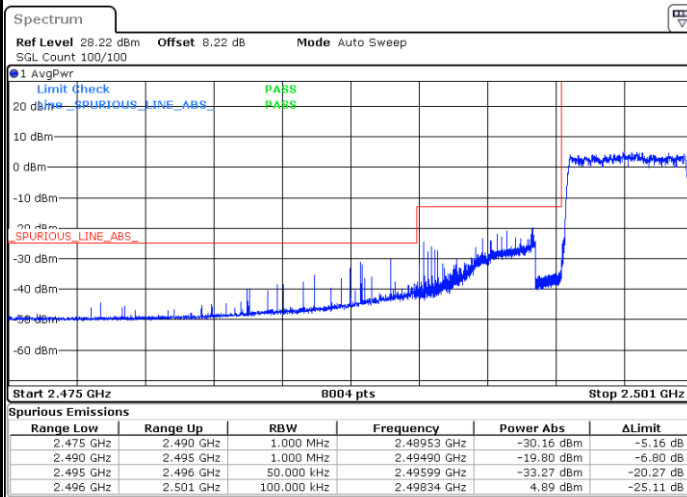
Date: 28.MAY.2021 11:19:35

Highest Band Edge / 1 RB



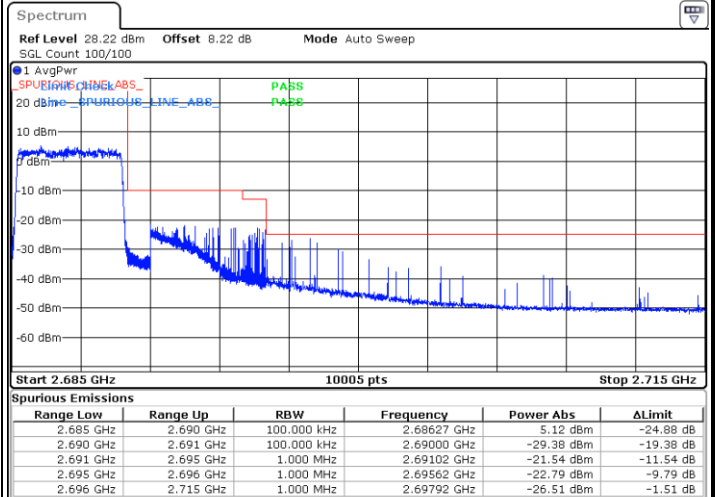
Date: 28.MAY.2021 09:50:42

Lowest Band Edge / Full RB



Date: 28.MAY.2021 11:57:06

Highest Band Edge / Full RB



Date: 28.MAY.2021 09:53:30