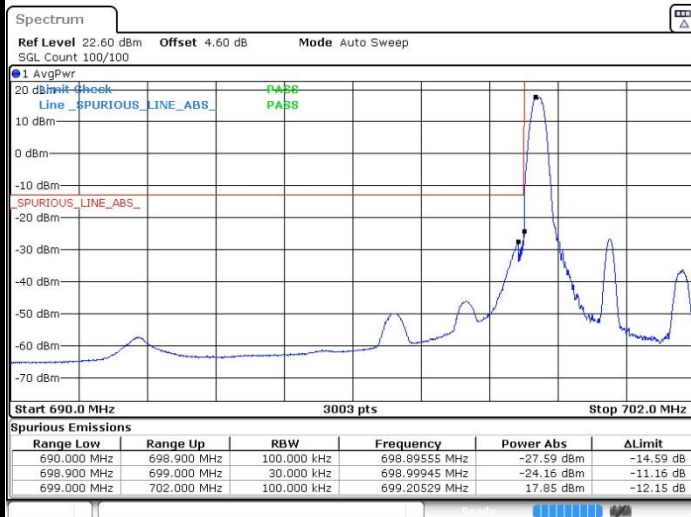




LTE Band 12 / 3MHz / 256QAM

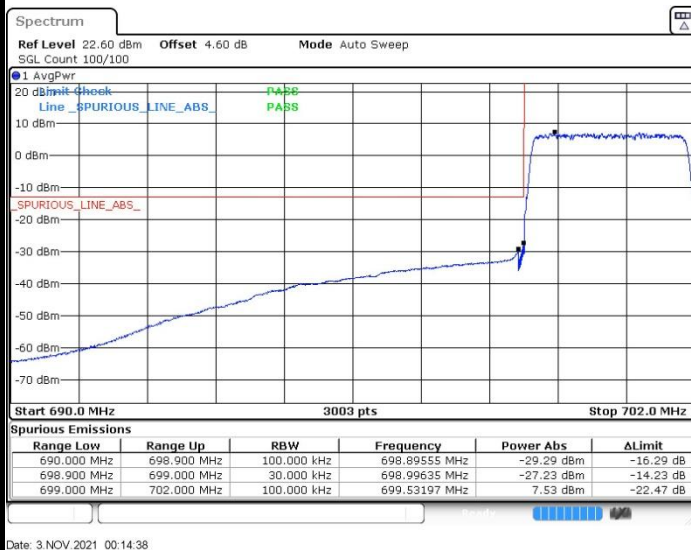
Lowest Band Edge / 1 RB



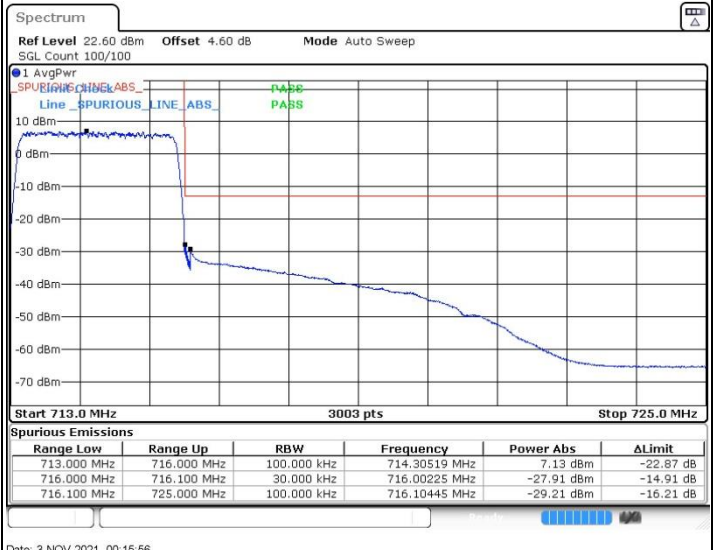
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



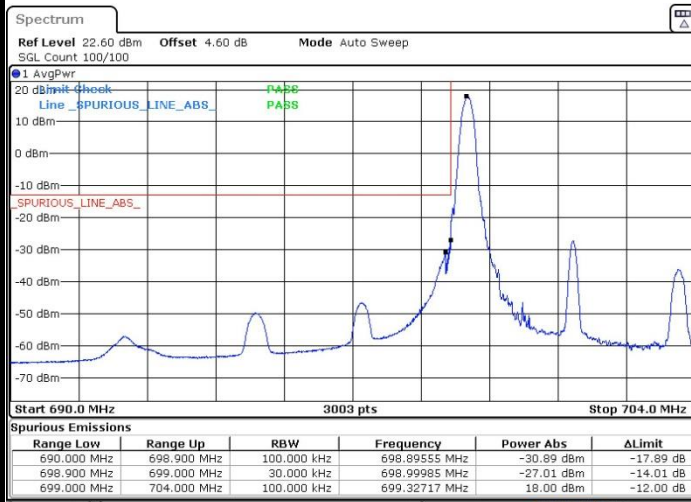
Highest Band Edge / Full RB



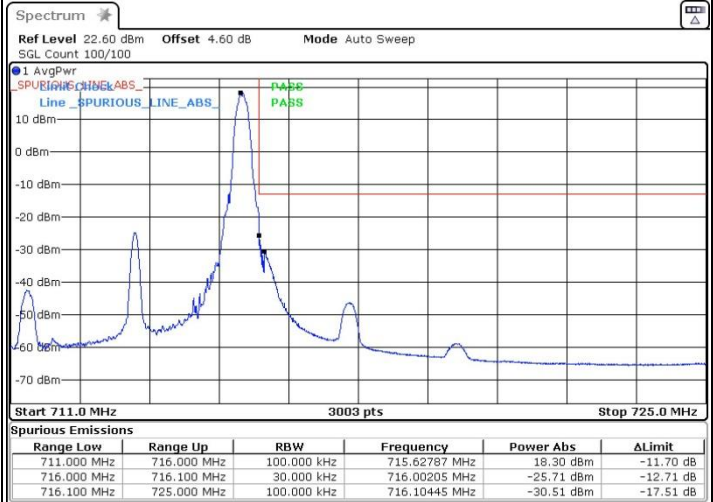


LTE Band 12 / 5MHz / 256QAM

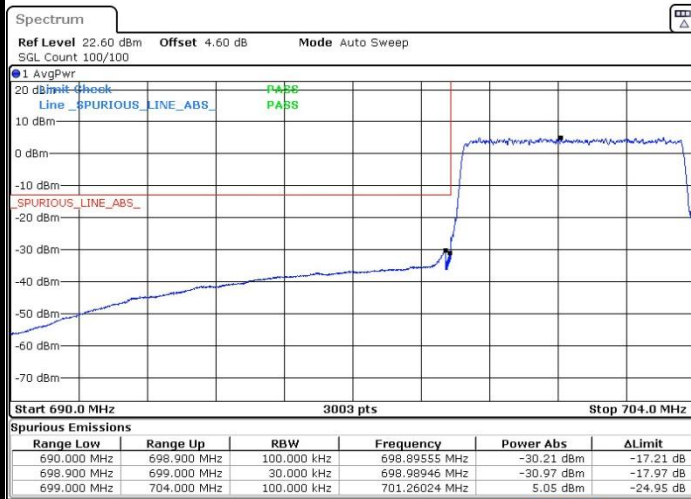
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



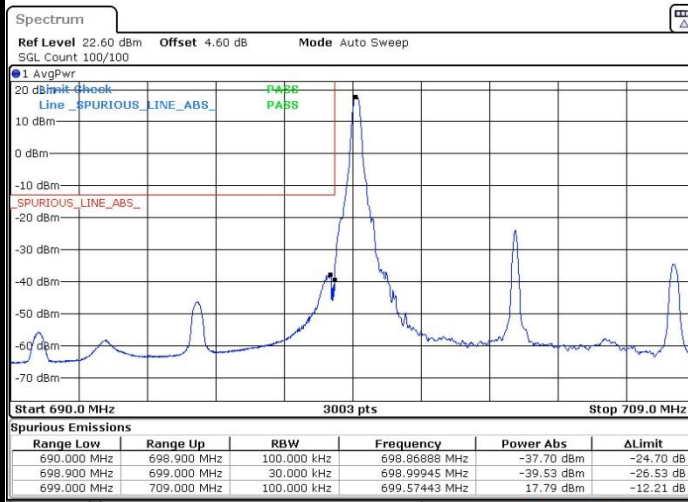
Highest Band Edge / Full RB



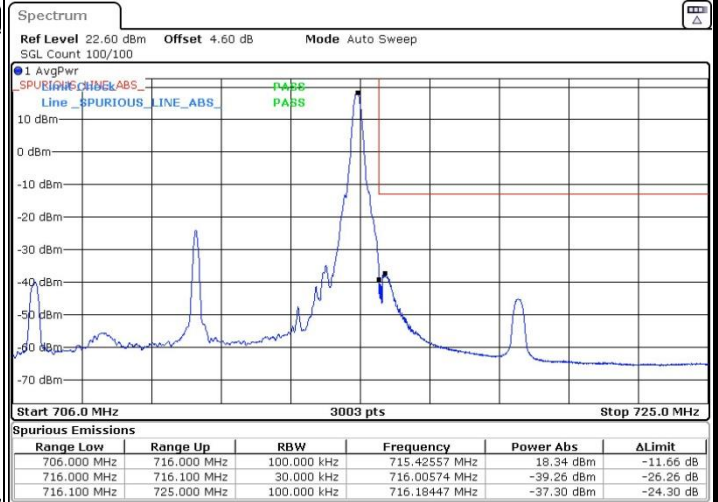


LTE Band 12 / 10MHz /256QAM

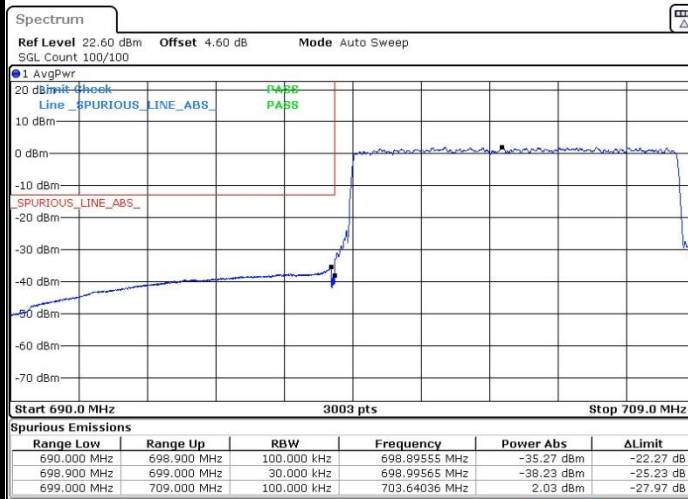
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

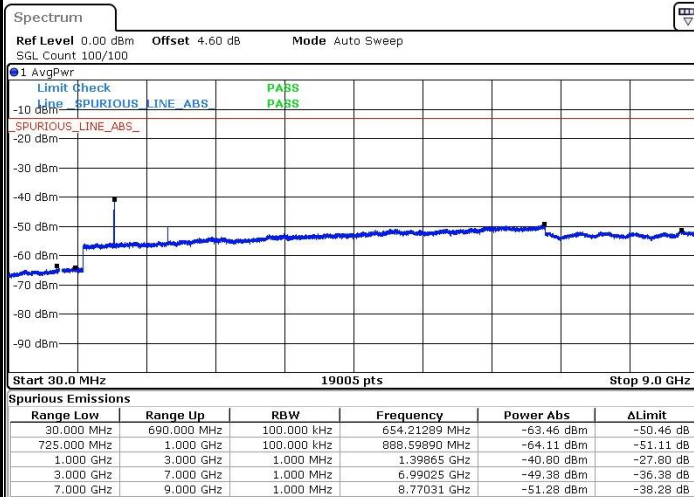




Conducted Spurious Emission

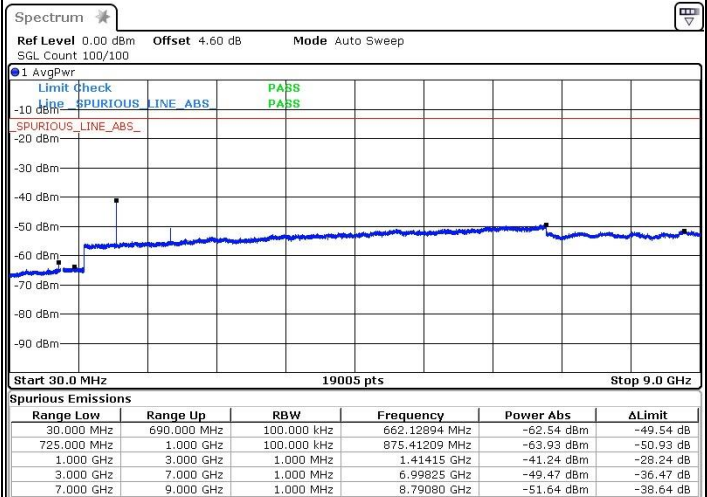
LTE Band 12 / 1.4MHz

Lowest Channel / QPSK



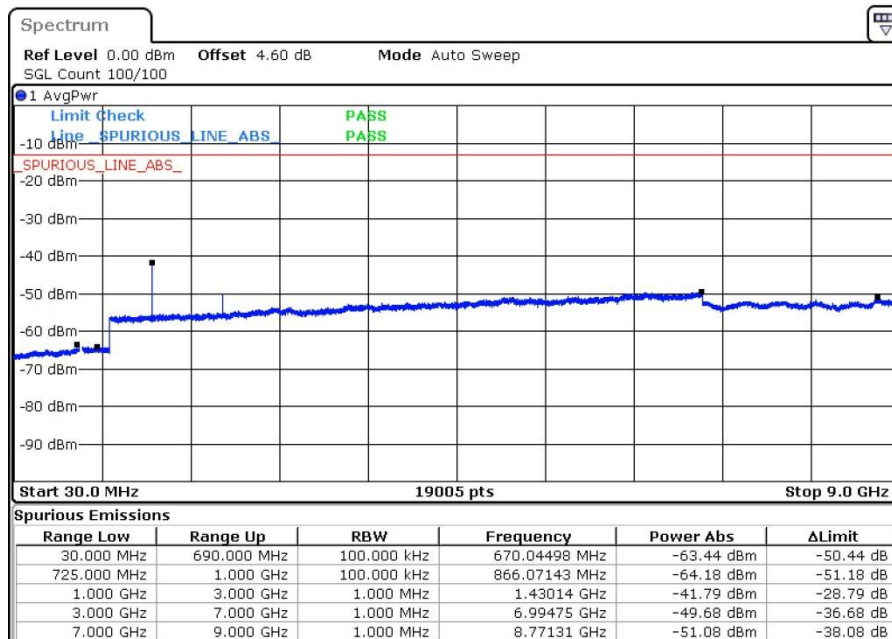
Date: 21.OCT.2021 01:23:47

Middle Channel / QPSK



Date: 21.OCT.2021 01:23:19

Highest Channel / QPSK

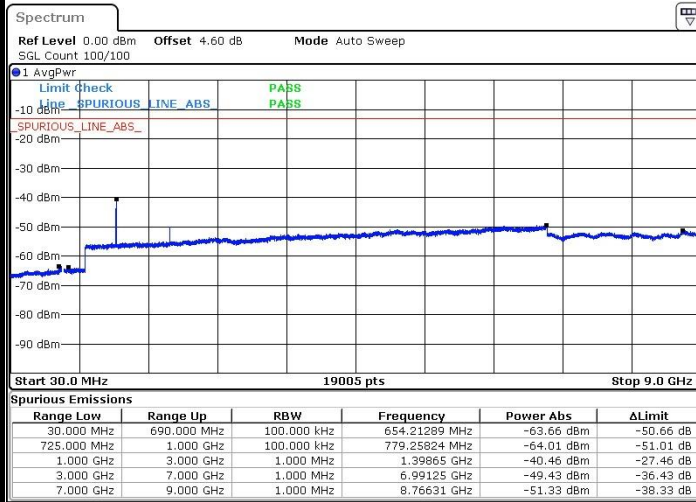


Date: 21.OCT.2021 01:24:15



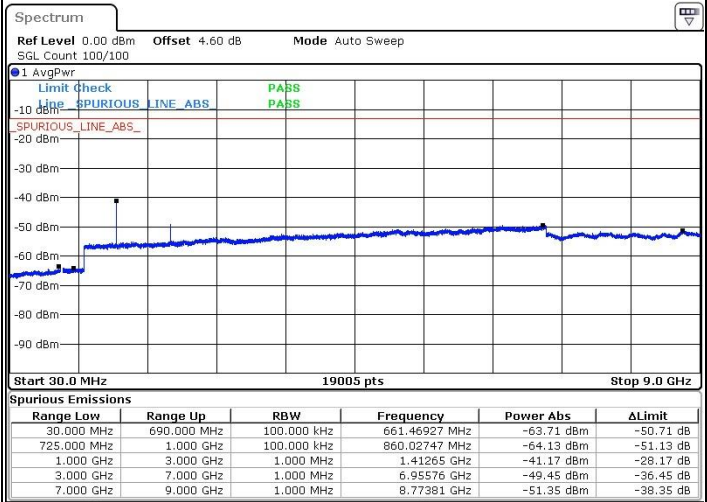
LTE Band 12 / 3MHz

Lowest Channel / QPSK



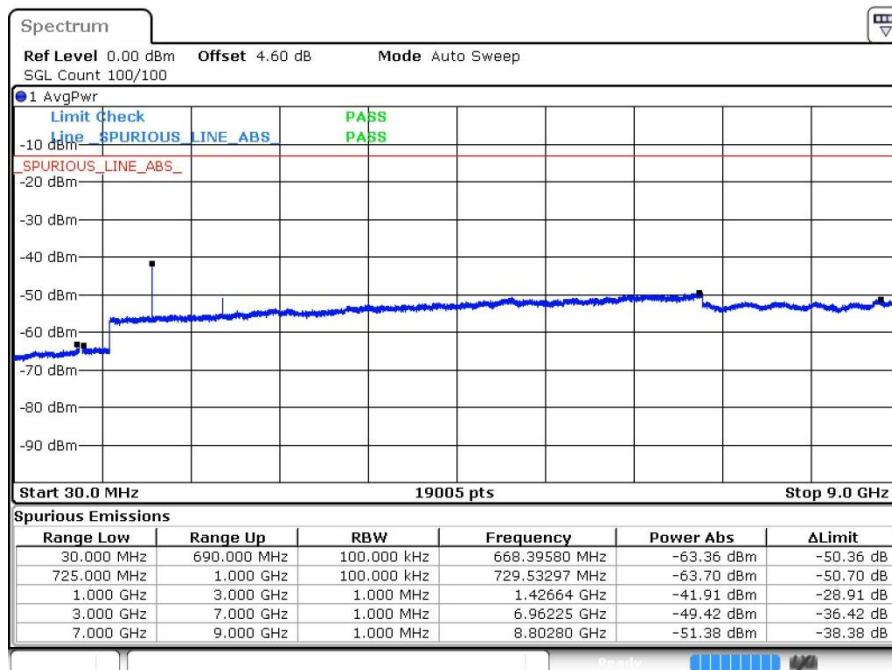
Date: 21.OCT.2021 01:21:42

Middle Channel / QPSK



Date: 21.OCT.2021 01:22:35

Highest Channel / QPSK

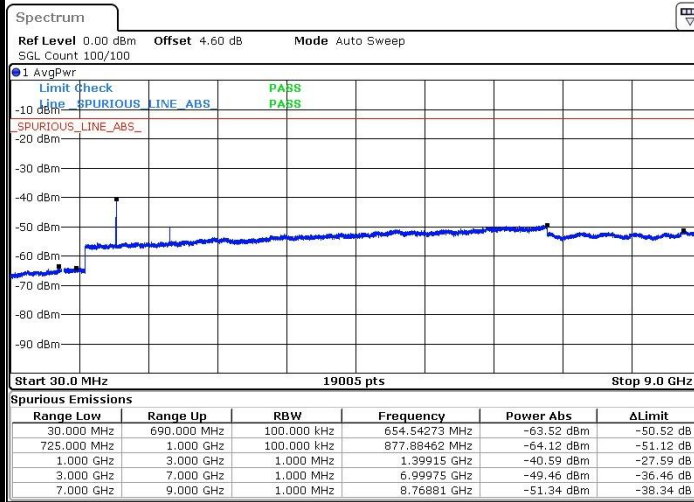


Date: 21.OCT.2021 01:22:08



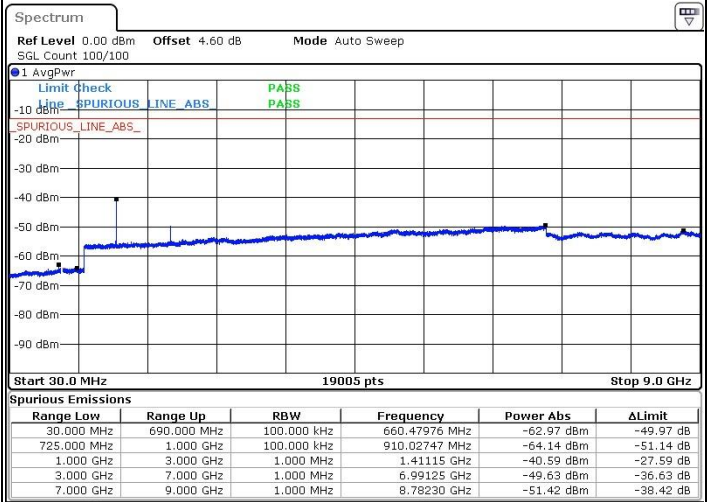
LTE Band 12 / 5MHz

Lowest Channel / QPSK



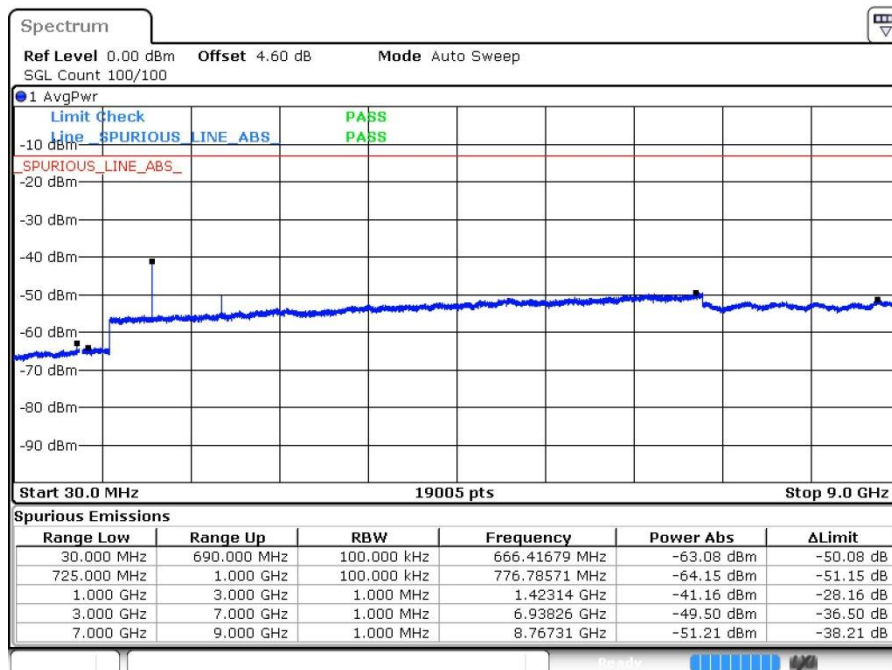
Date: 21.OCT.2021 01:19:52

Middle Channel / QPSK



Date: 21.OCT.2021 01:20:48

Highest Channel / QPSK

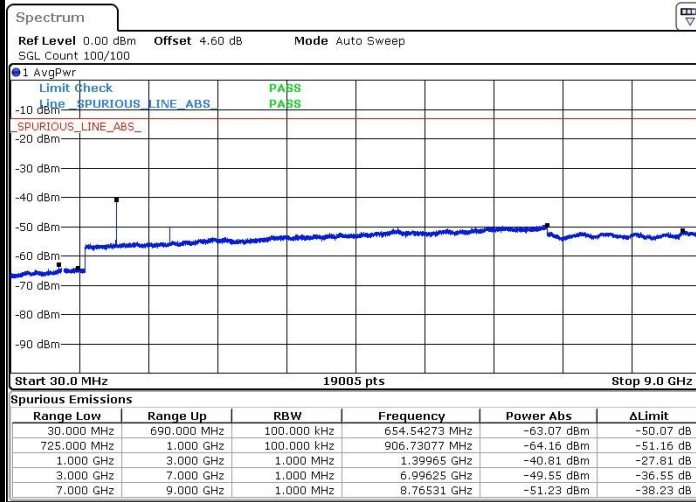


Date: 21.OCT.2021 01:20:19



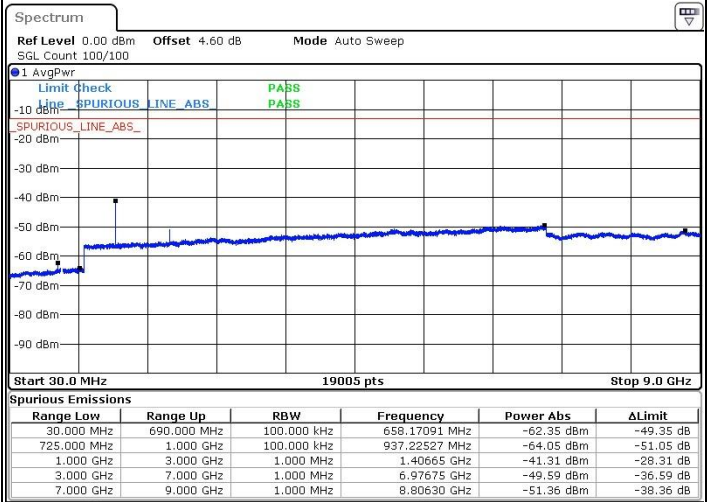
LTE Band 12 / 10MHz

Lowest Channel / QPSK



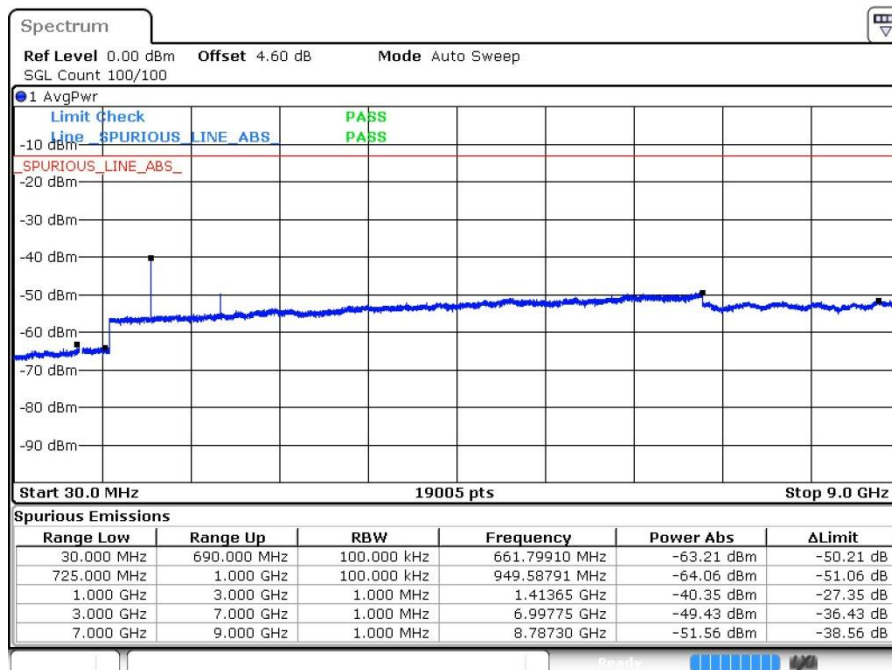
Date: 21.OCT.2021 01:17:50

Middle Channel / QPSK



Date: 21.OCT.2021 01:18:48

Highest Channel / QPSK



Date: 21.OCT.2021 01:18:21

**Frequency Stability**

Test Conditions		LTE Band 12 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0023	PASS
40	Normal Voltage	0.0015	
30	Normal Voltage	0.0006	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0024	
0	Normal Voltage	0.0008	
-10	Normal Voltage	0.0002	
-20	Normal Voltage	0.0005	
-30	Normal Voltage	0.0013	
20	Maximum Voltage	0.0004	
20	Normal Voltage	0.0021	
20	Battery End Point	0.0012	

Note:

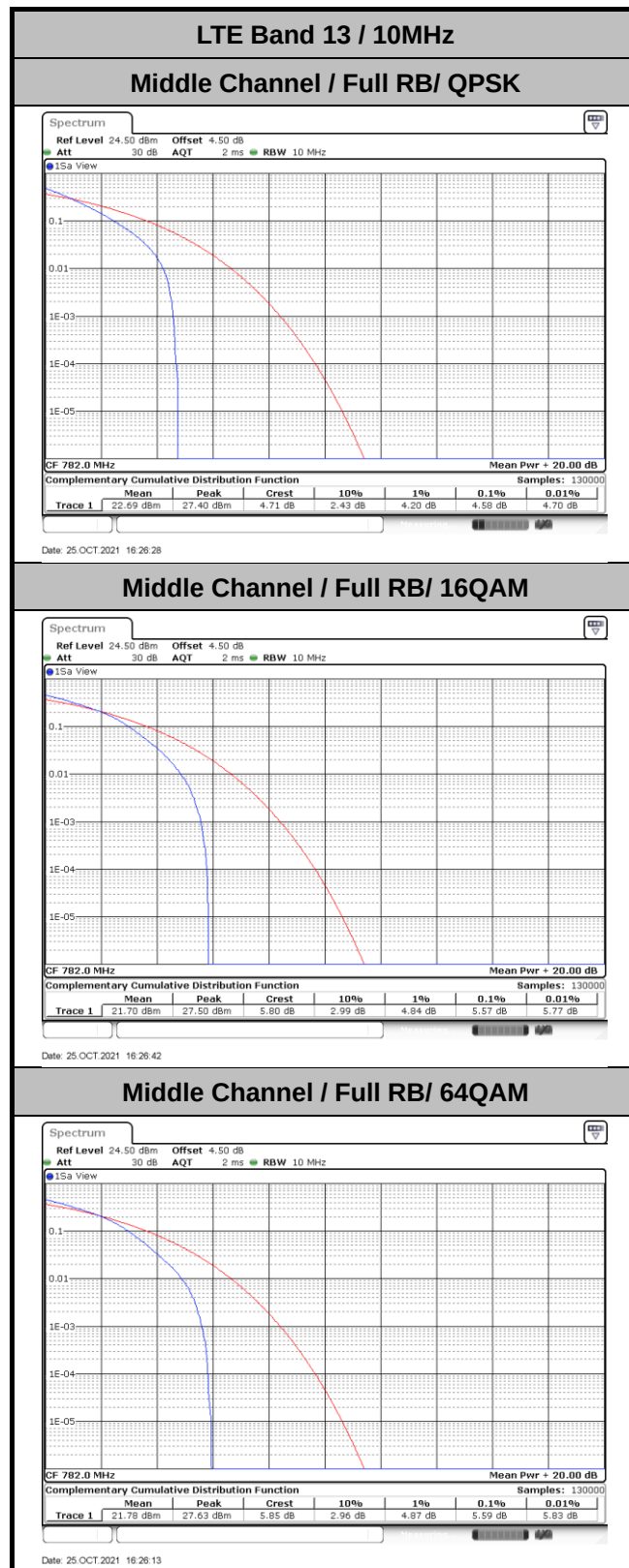
1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.45 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

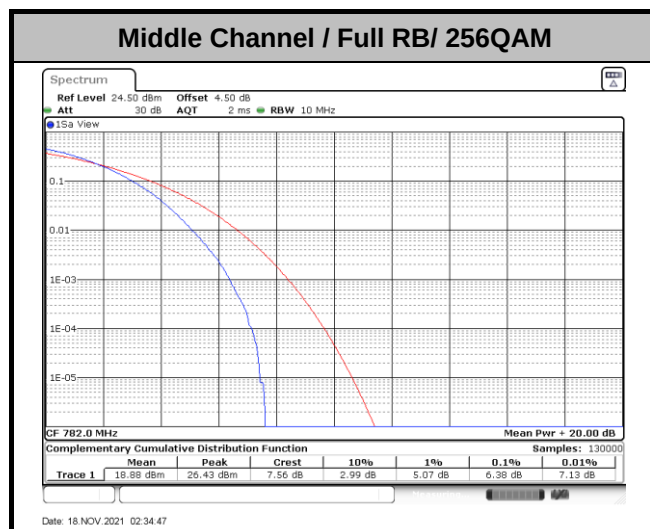


LTE Band 13

Peak-to-Average Ratio

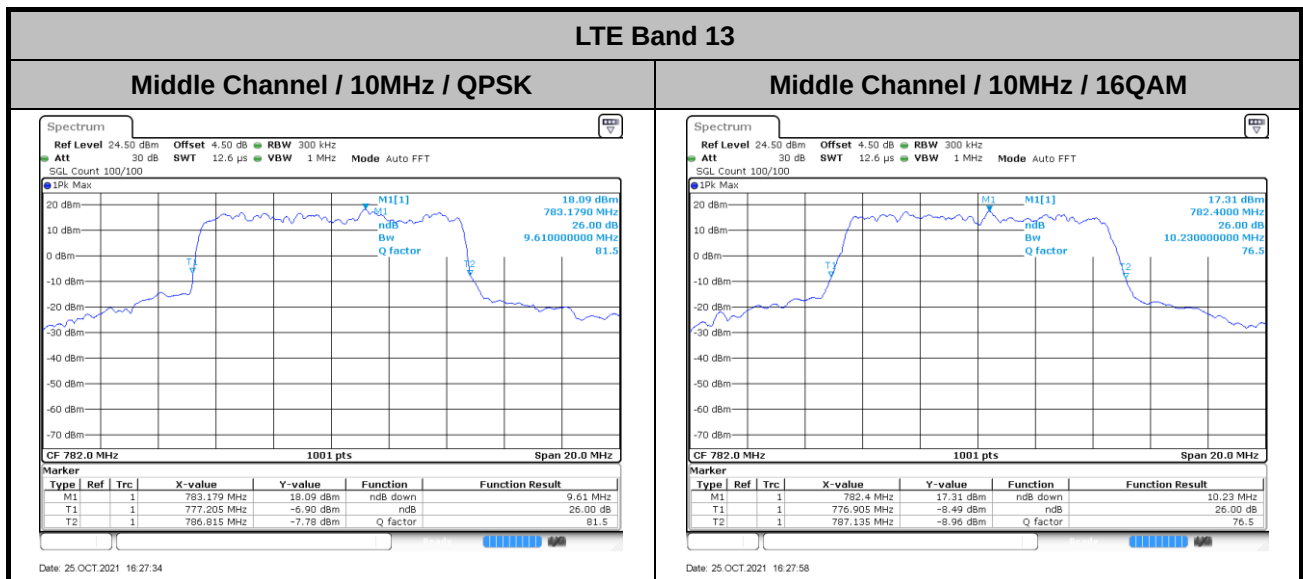
Mode	LTE Band 13 / 10MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.58	5.57	5.59	6.38	PASS





**26dB Bandwidth**

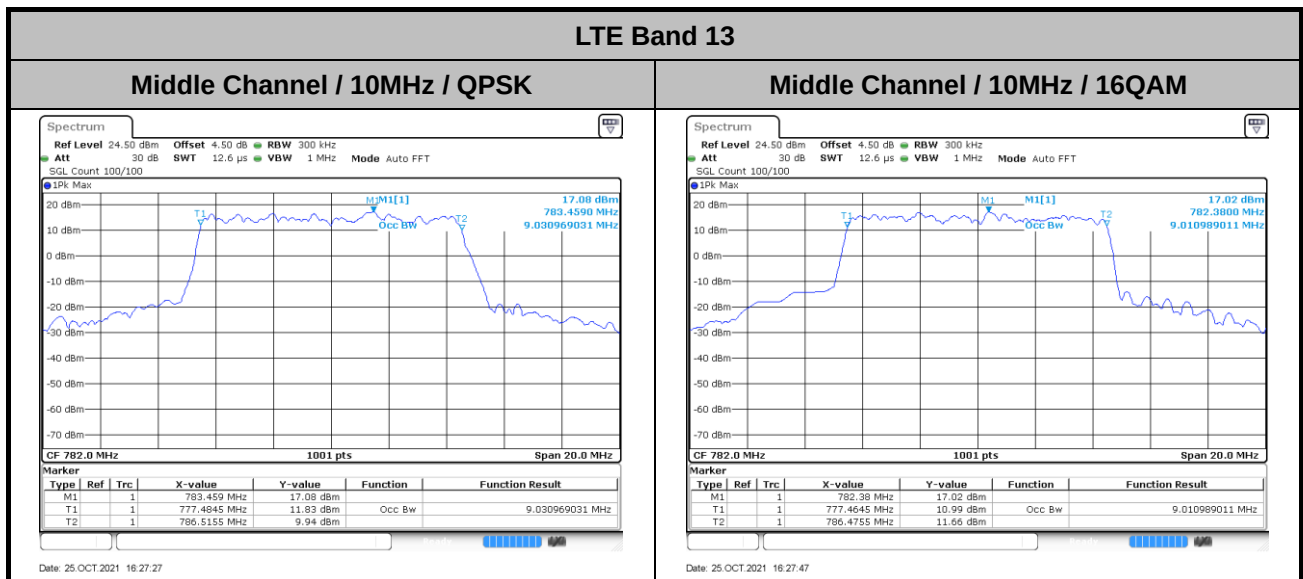
Mode	LTE Band 13 : 26dB BW(MHz)	
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.61	10.23

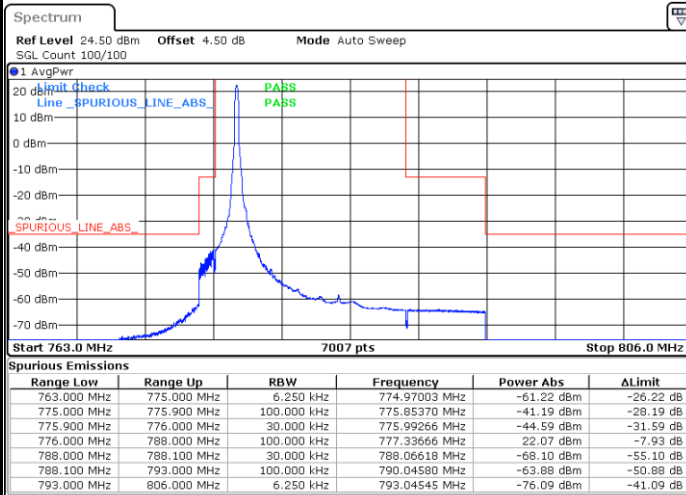
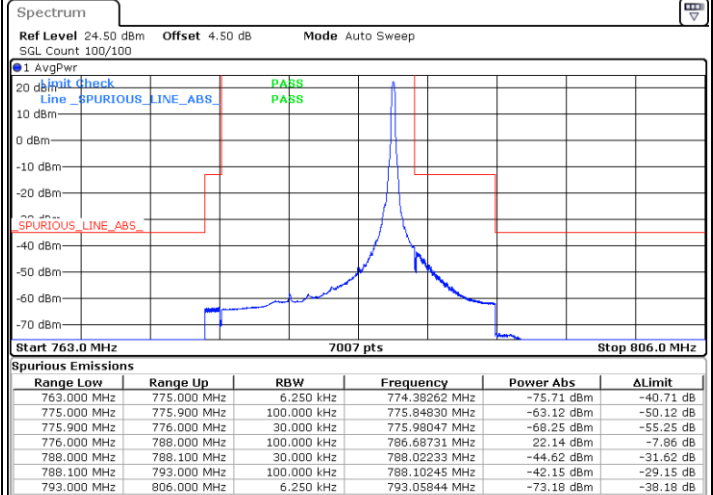
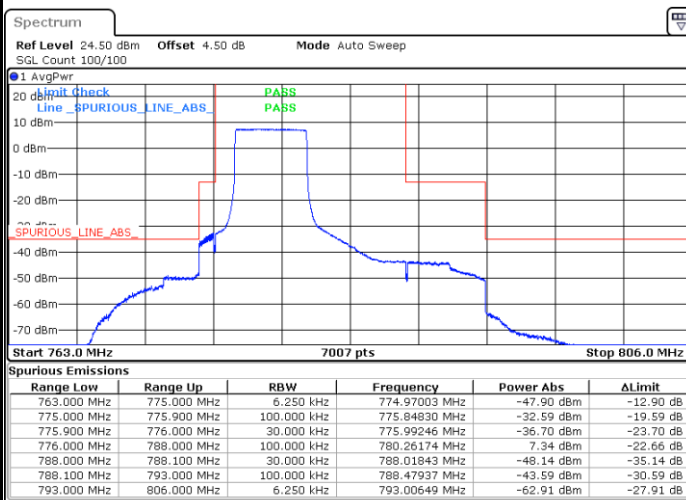
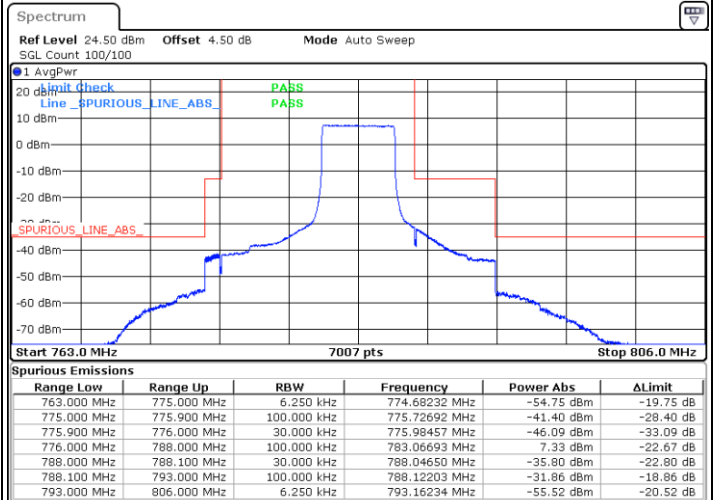




Occupied Bandwidth

Mode	LTE Band 13 : 99%OBW(MHz)	
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.03	9.01

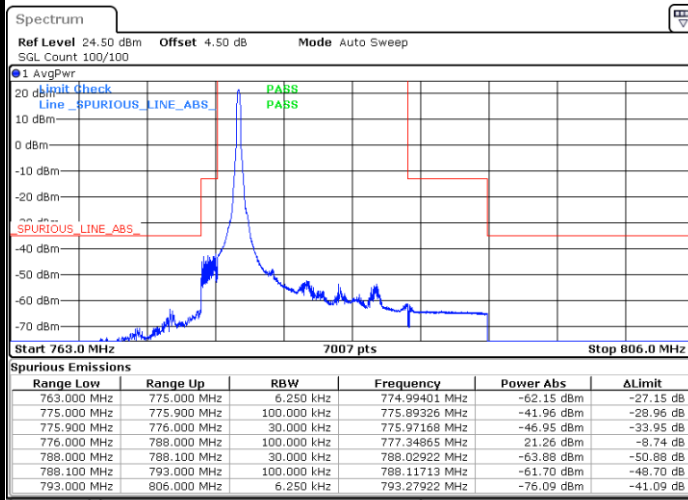


**Conducted Band Edge****LTE Band 13 / 5MHz / QPSK****Lowest Band Edge / 1 RB****Highest Band Edge / 1 RB****Lowest Band Edge / Full RB****Highest Band Edge / Full RB**



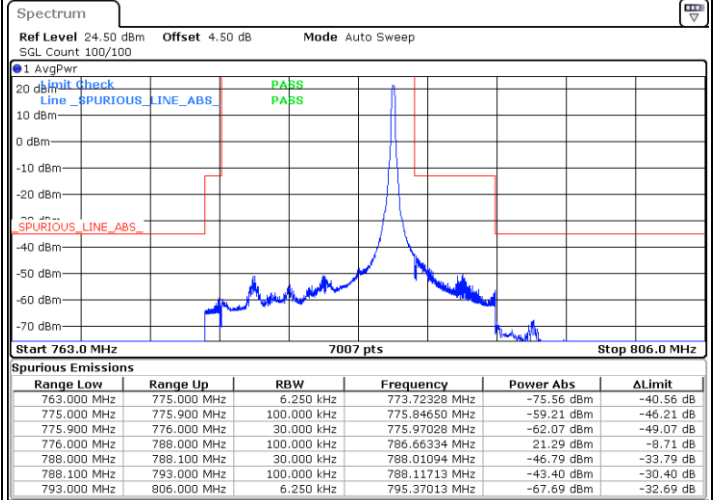
LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1RB



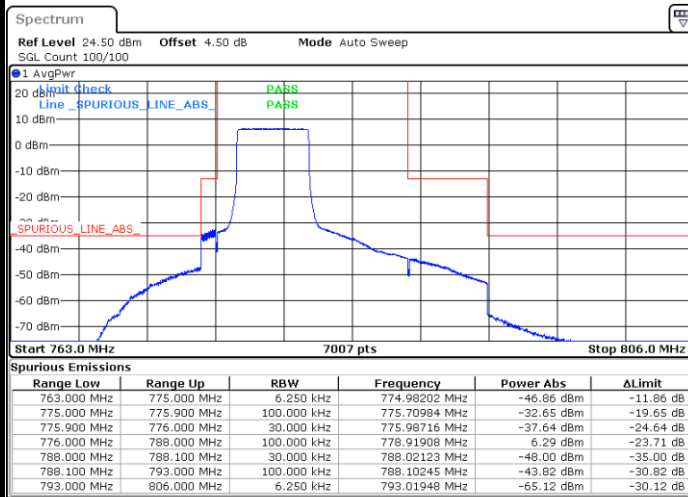
Date: 25.OCT.2021 15:58:39

Highest Band Edge / 1 RB



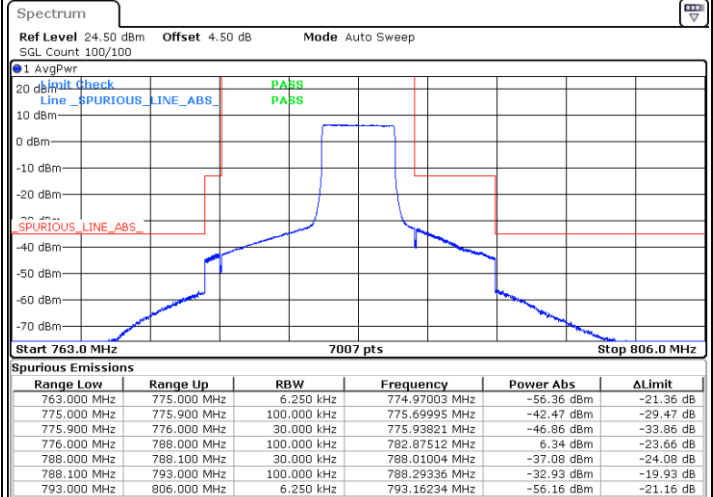
Date: 25.OCT.2021 16:02:54

Lowest Band Edge / Full RB



Date: 25.OCT.2021 15:53:26

Highest Band Edge / Full RB

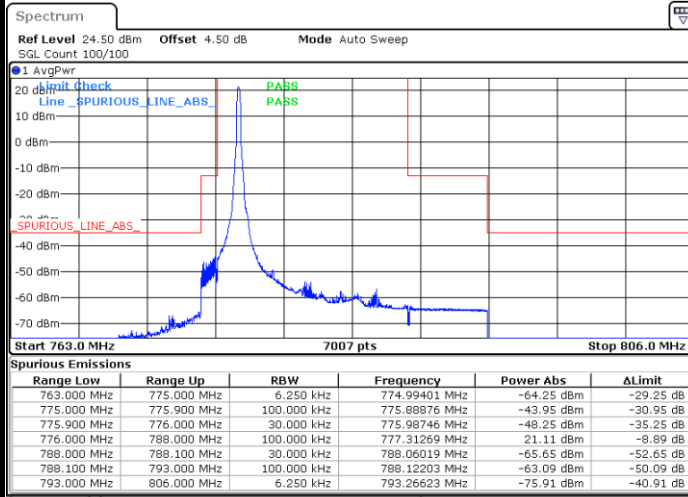


Date: 25.OCT.2021 16:07:37



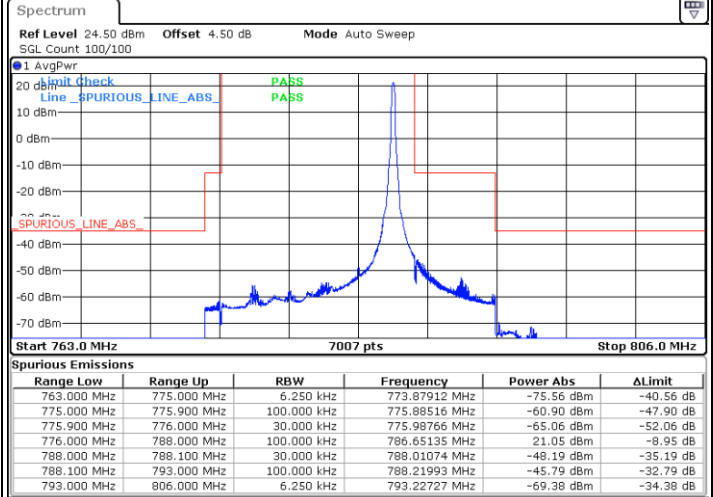
LTE Band 13 / 5MHz / 64QAM

Lowest Band Edge / 1RB



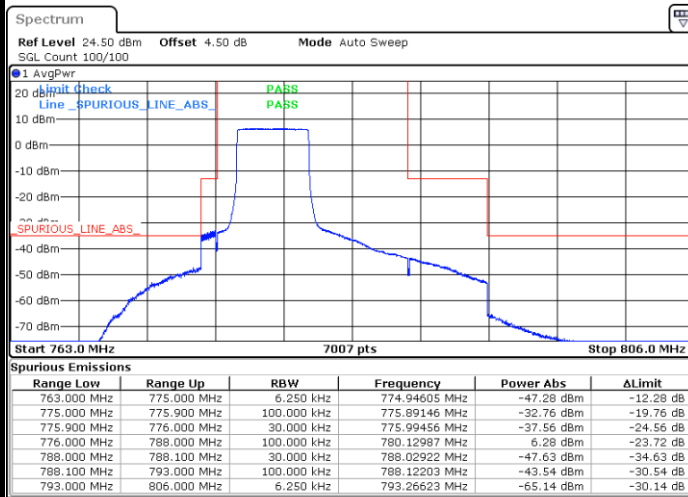
Date: 25.OCT.2021 15:57:29

Highest Band Edge / 1 RB



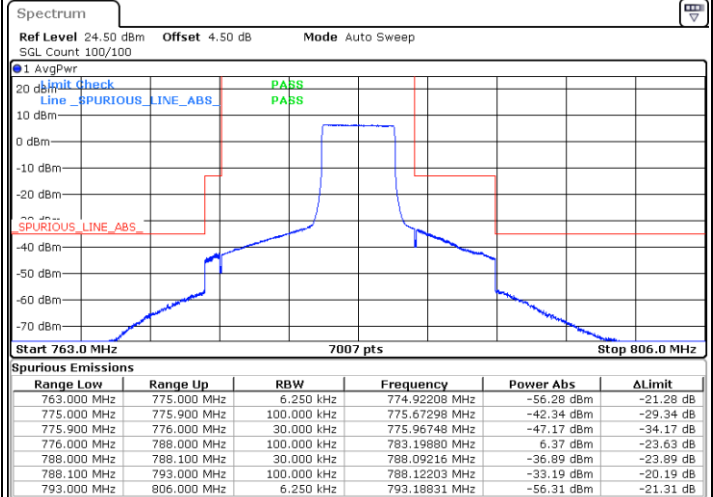
Date: 25.OCT.2021 16:04:10

Lowest Band Edge / Full RB



Date: 25.OCT.2021 15:55:32

Highest Band Edge / Full RB

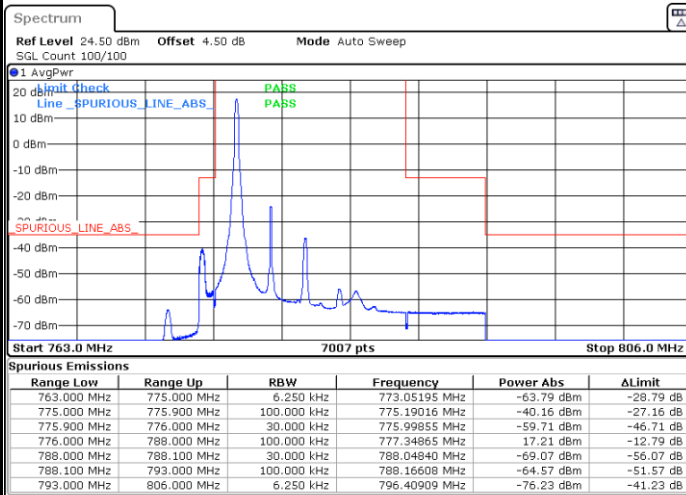


Date: 25.OCT.2021 16:06:25



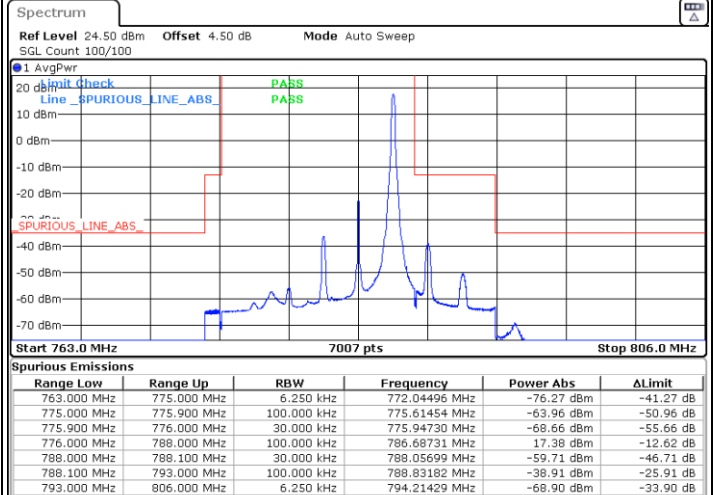
LTE Band 13 / 5MHz / 256QAM

Lowest Band Edge / 1RB



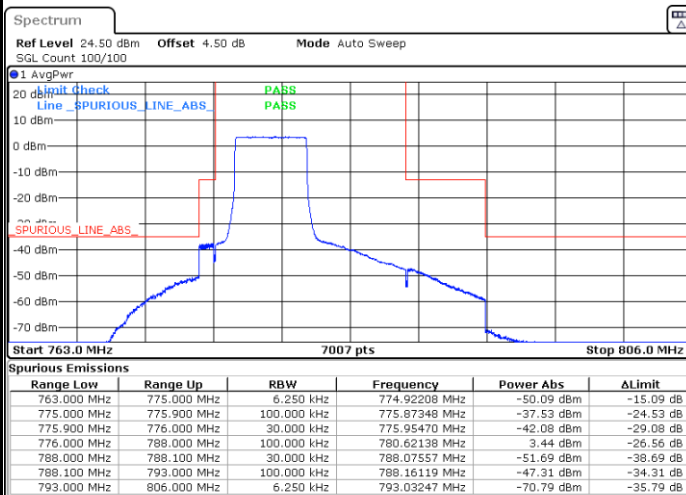
Date: 18.NOV.2021 02:17:27

Highest Band Edge / 1 RB



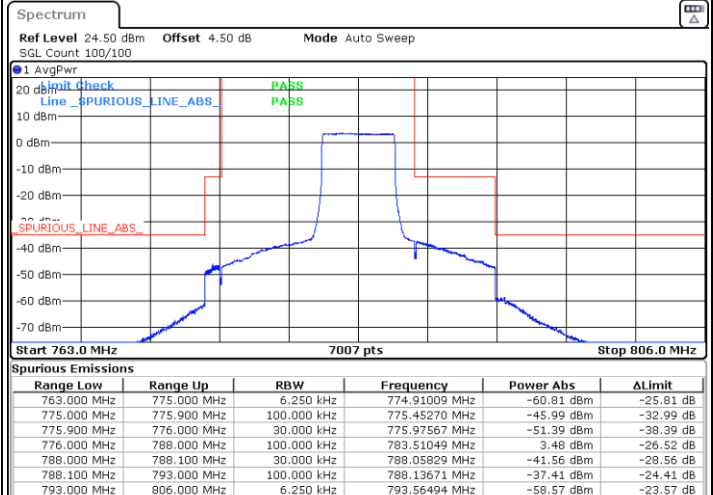
Date: 18.NOV.2021 02:22:47

Lowest Band Edge / Full RB



Date: 18.NOV.2021 02:18:50

Highest Band Edge / Full RB

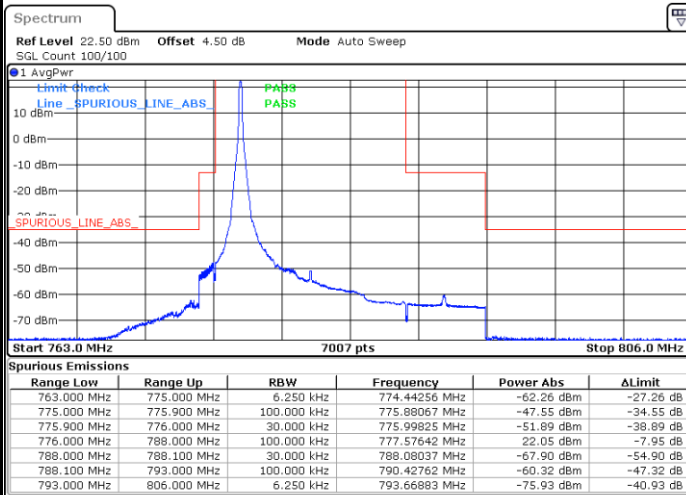


Date: 18.NOV.2021 02:20:38



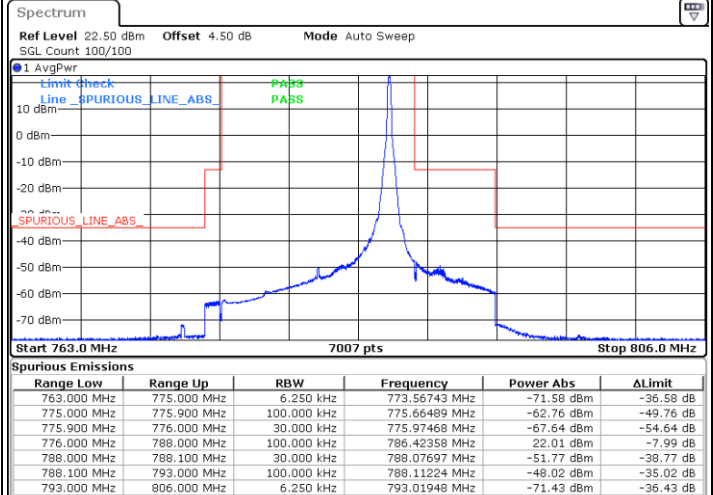
LTE Band 13 / 10MHz / QPSK

middle Band Edge / 1 RB



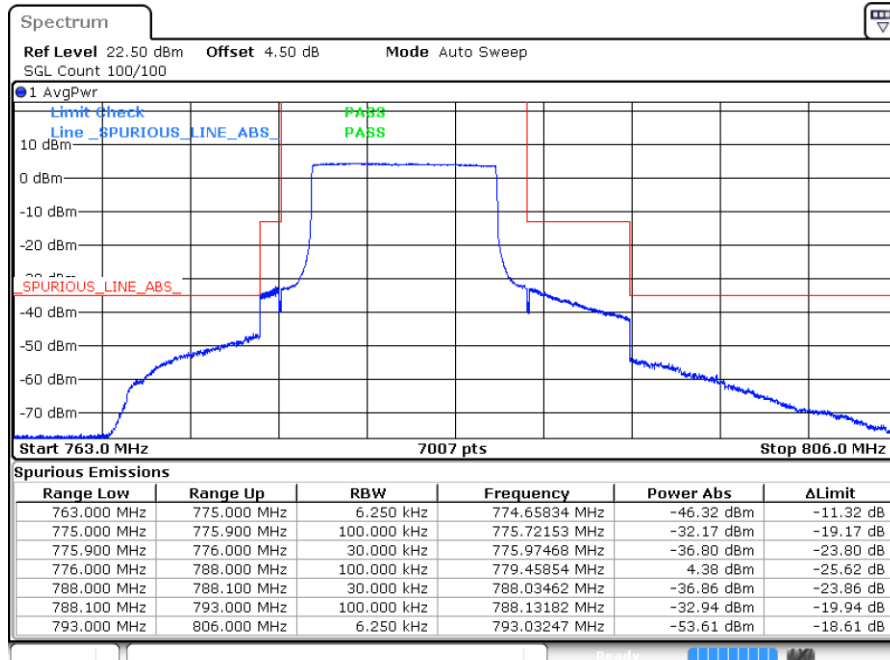
Date: 25.OCT.2021 16:20:23

middle Band Edge / 1 RB



Date: 25.OCT.2021 16:21:38

Middle Band Edge / Full RB

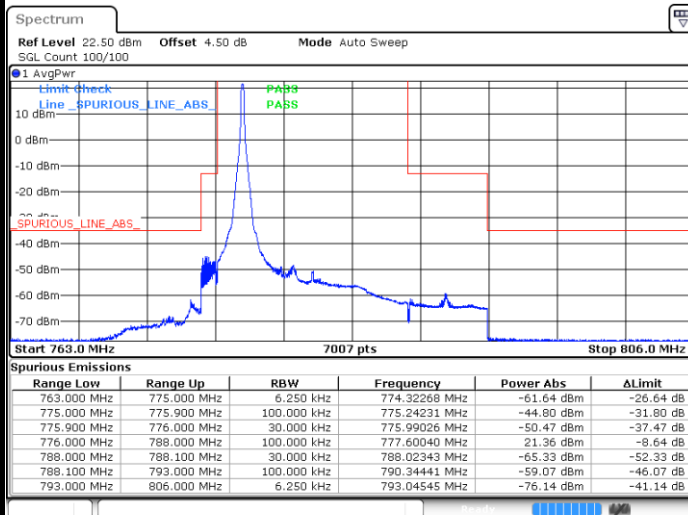


Date: 25.OCT.2021 16:12:49

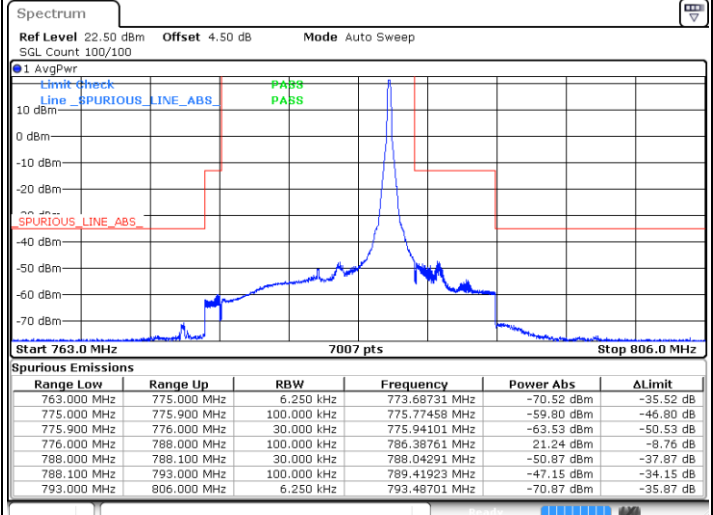


LTE Band 13 / 10MHz / 16QAM

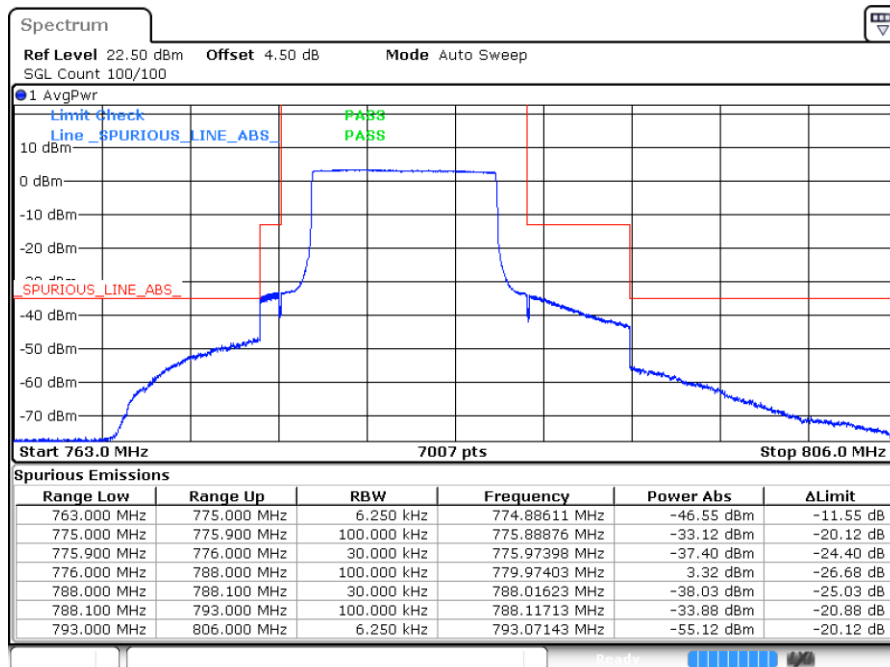
middle Band Edge / 1 RB



middle Band Edge / 1 RB



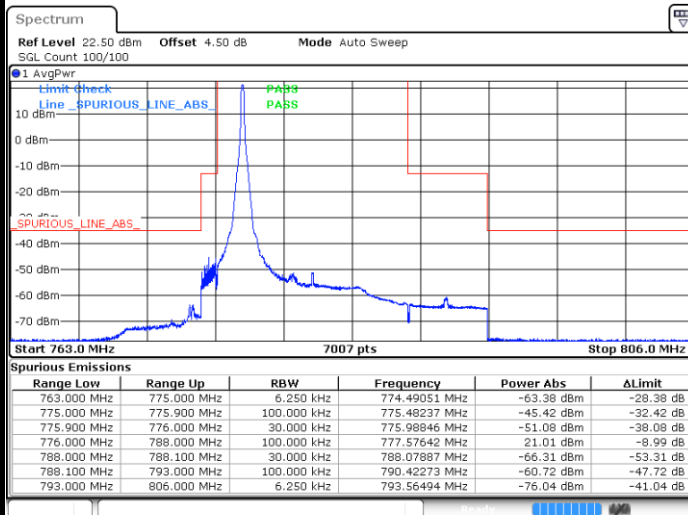
middle Band Edge / Full RB





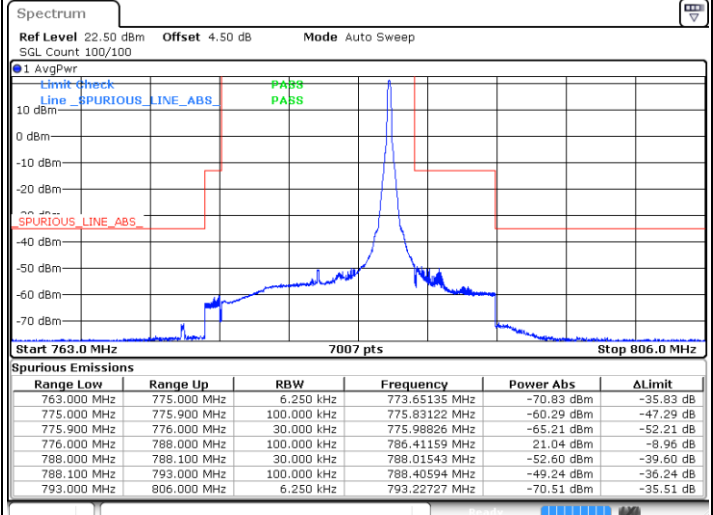
LTE Band 13 / 10MHz / 64QAM

middle Band Edge / 1 RB



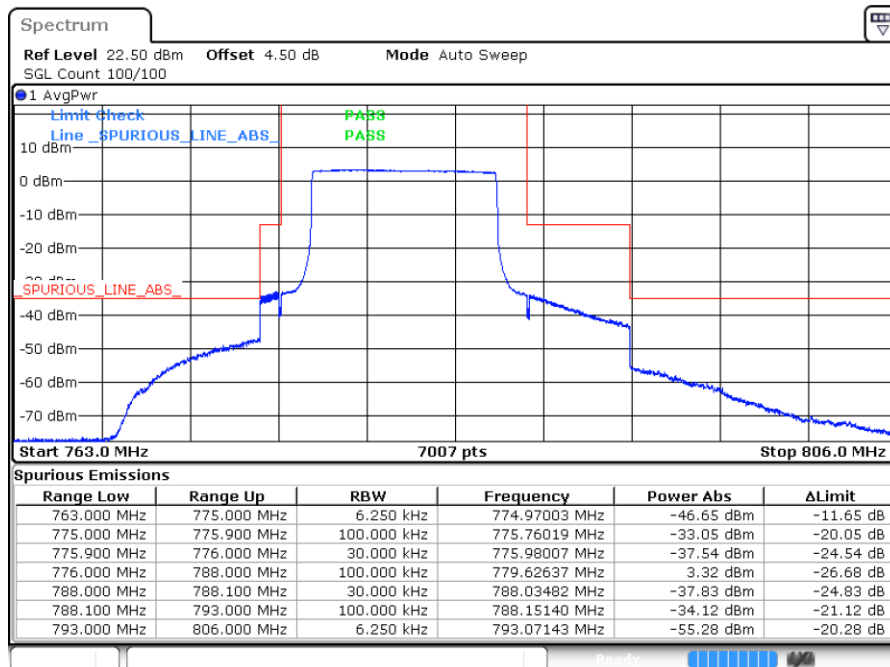
Date: 25.OCT.2021 16:17:29

middle Band Edge / 1 RB



Date: 25.OCT.2021 16:24:19

middle Band Edge / Full RB

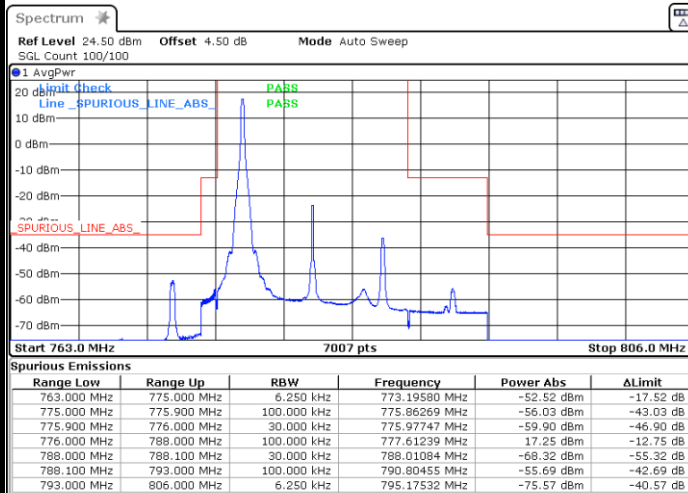


Date: 25.OCT.2021 16:16:02



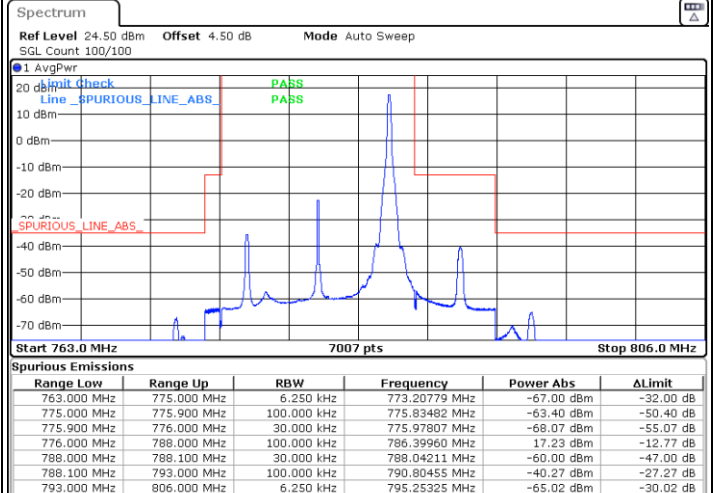
LTE Band 13 / 10MHz / 256QAM

middle Band Edge / 1 RB



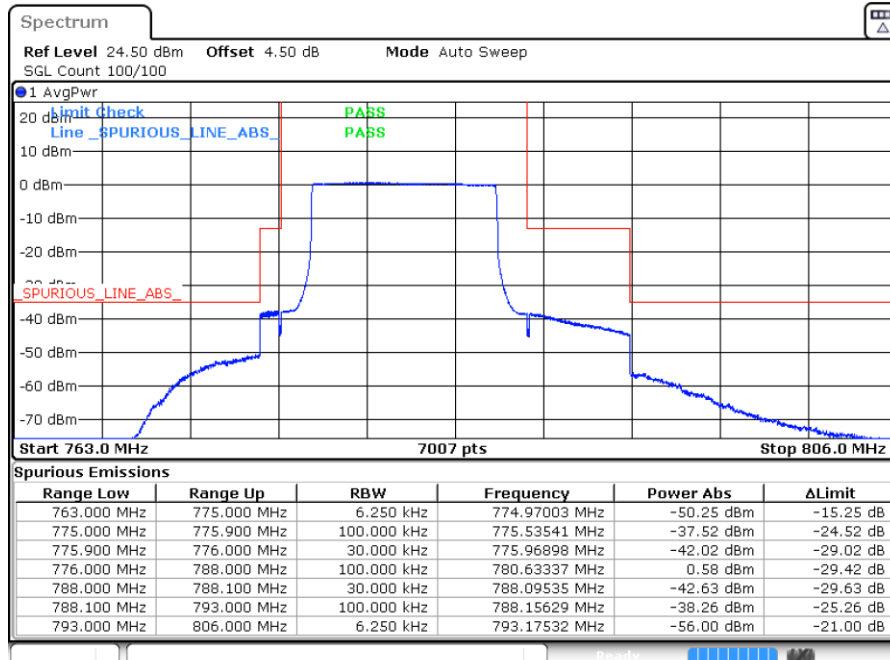
Date: 18 NOV 2021 02:29:16

middle Band Edge / 1 RB



Date: 18 NOV 2021 02:30:33

middle Band Edge / Full RB



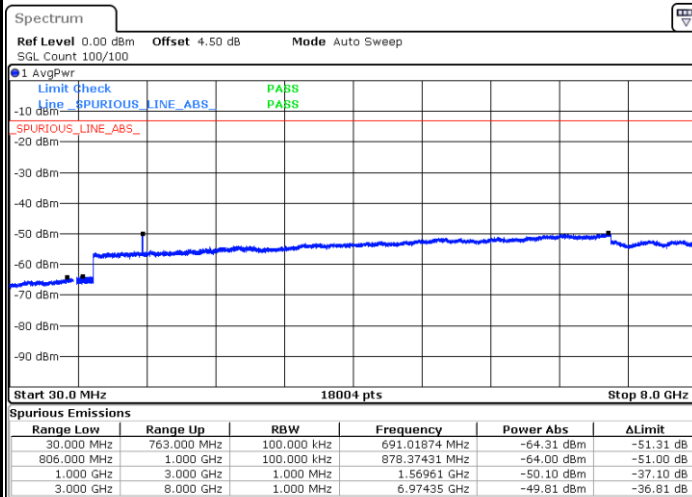
Date: 18 NOV 2021 02:34:36



Conducted Spurious Emission

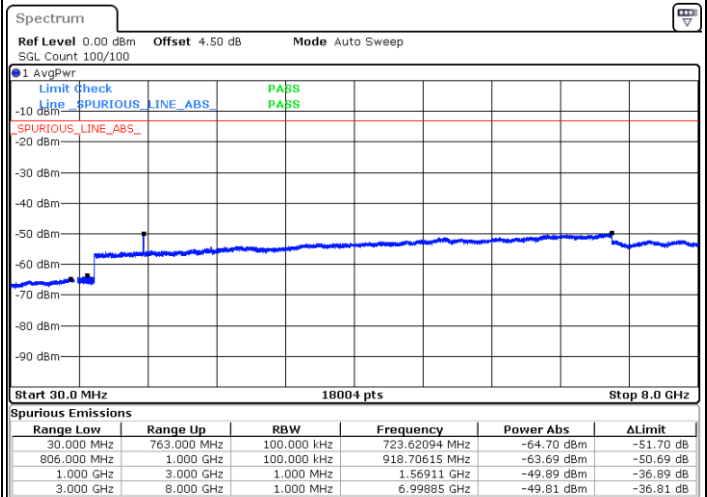
LTE Band 13 / 5MHz

Lowest Channel / QPSK



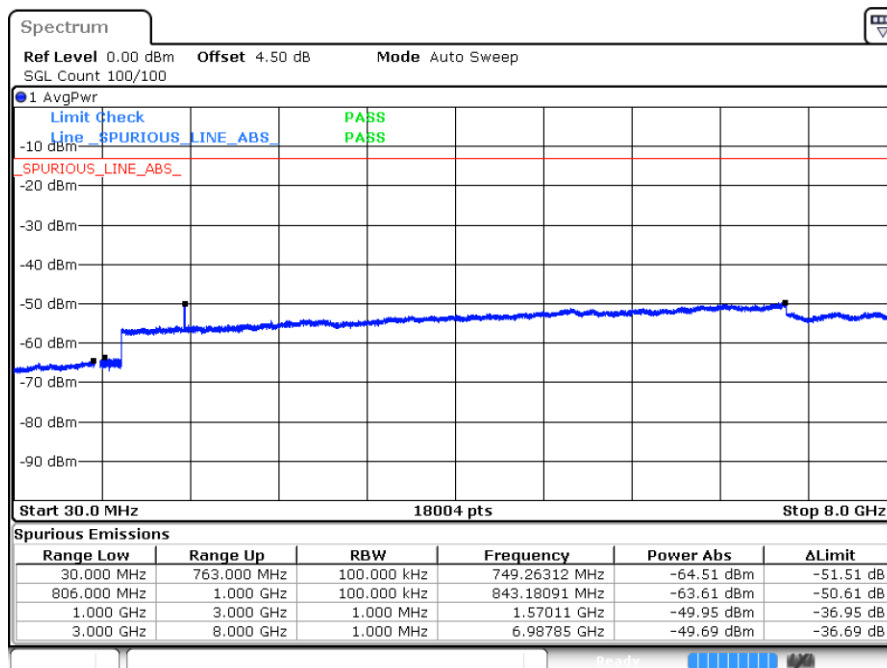
Date: 25.OCT.2021 16:10:59

Middle Channel / QPSK



Date: 25.OCT.2021 16:10:12

Highest Channel / QPSK

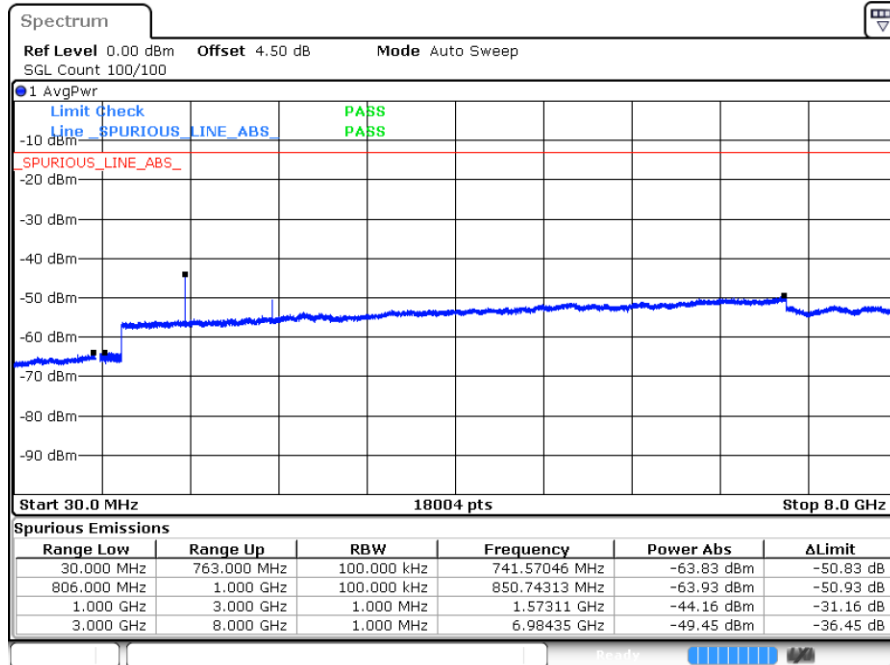


Date: 25.OCT.2021 16:09:34



LTE Band 13 / 10MHz

Middle Channel / QPSK



Date: 25.OCT.2021 16:24:57

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	0.0019	PASS
40	Normal Voltage	0.0004	
30	Normal Voltage	0.0047	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0054	
0	Normal Voltage	0.0063	
-10	Normal Voltage	0.0010	
-20	Normal Voltage	0.0058	
-30	Normal Voltage	0.0066	
20	Maximum Voltage	0.0006	
20	Normal Voltage	0.0009	
20	Battery End Point	0.0022	

Note:

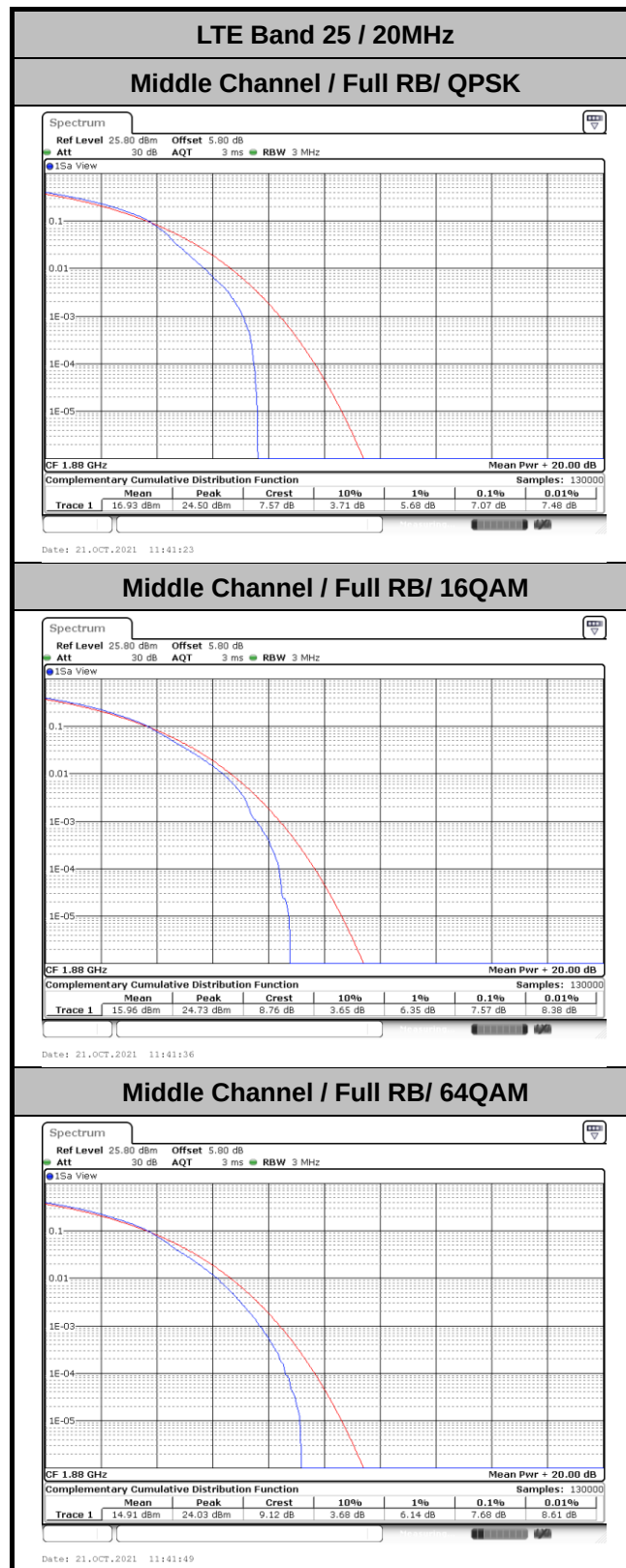
1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.45 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

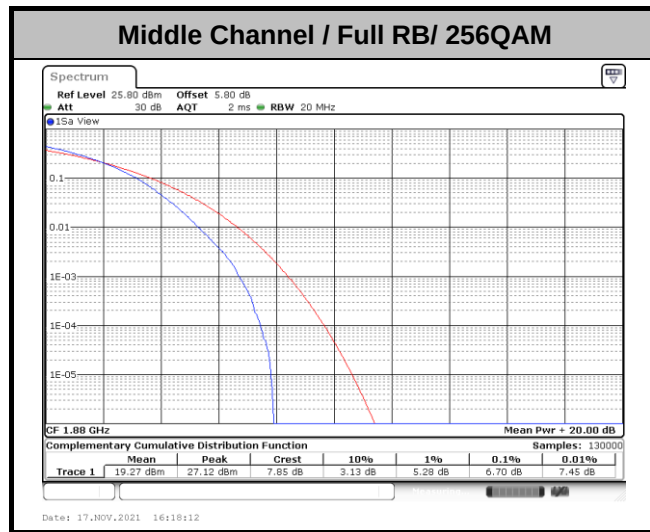


LTE Band 25

Peak-to-Average Ratio

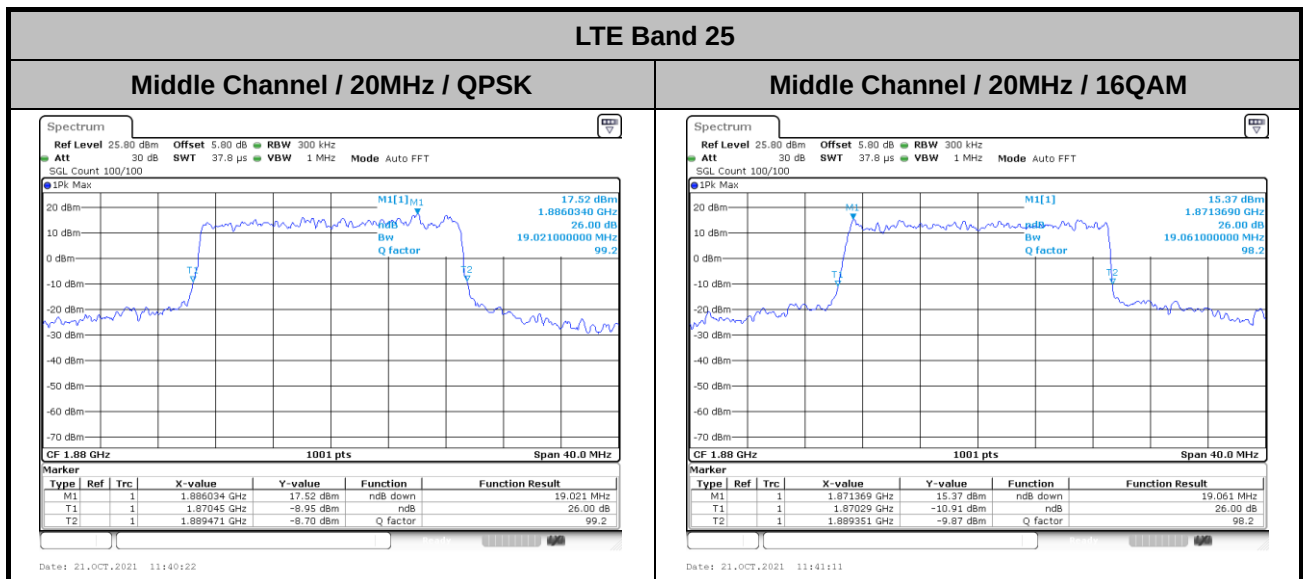
Mode	LTE Band 25 / 20MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	7.07	7.57	7.68	6.70	PASS





**26dB Bandwidth**

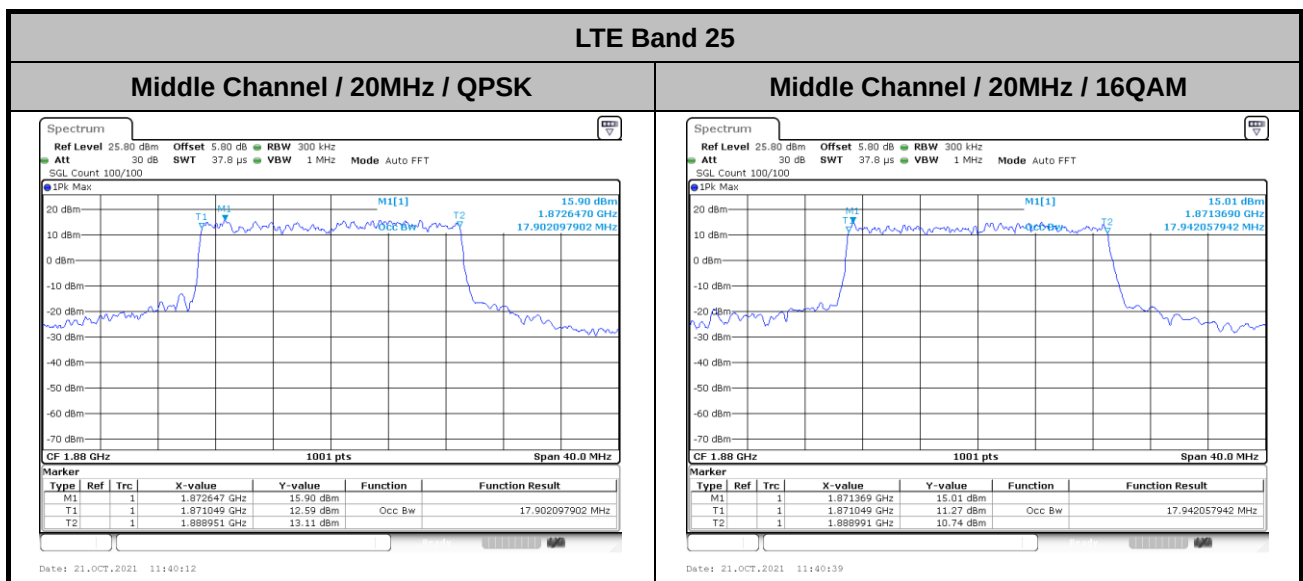
Mode	LTE Band 25 : 26dB BW(MHz)	
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	19.02	19.06





Occupied Bandwidth

Mode	LTE Band 25 : 99%OBW(MHz)	
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	17.90	17.94

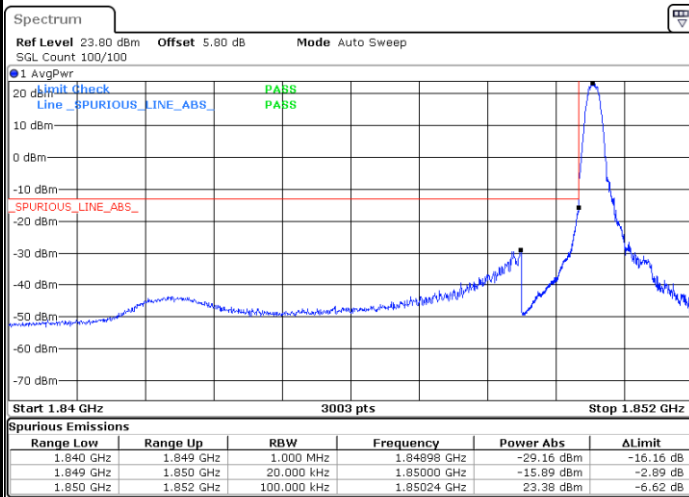




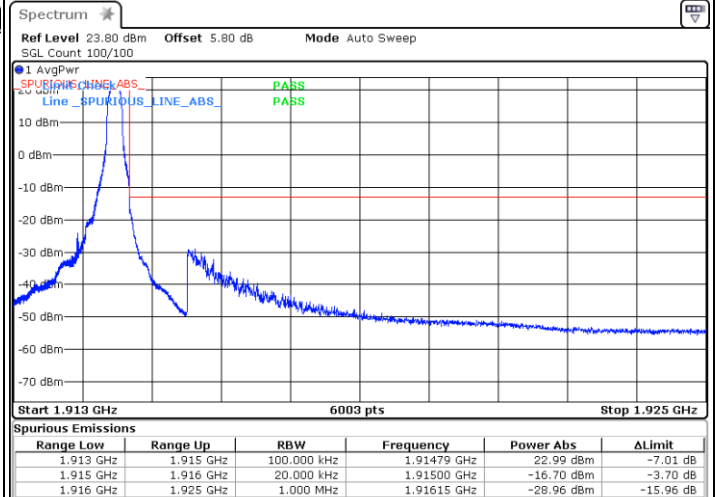
Conducted Band Edge

LTE Band 25 / 1.4MHz / QPSK

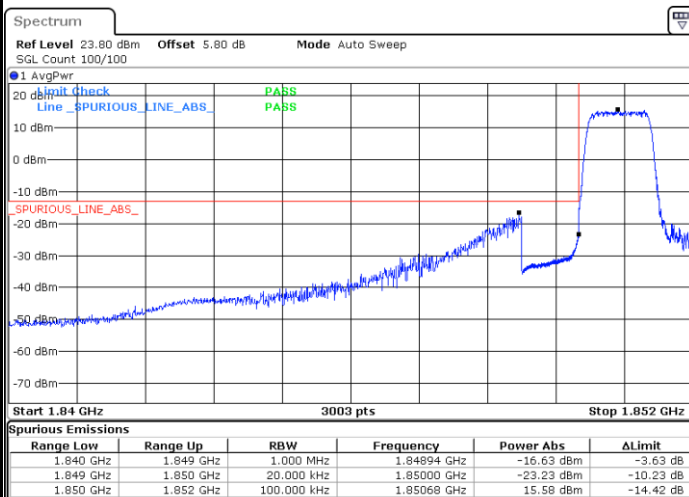
Lowest Band Edge / 1RB



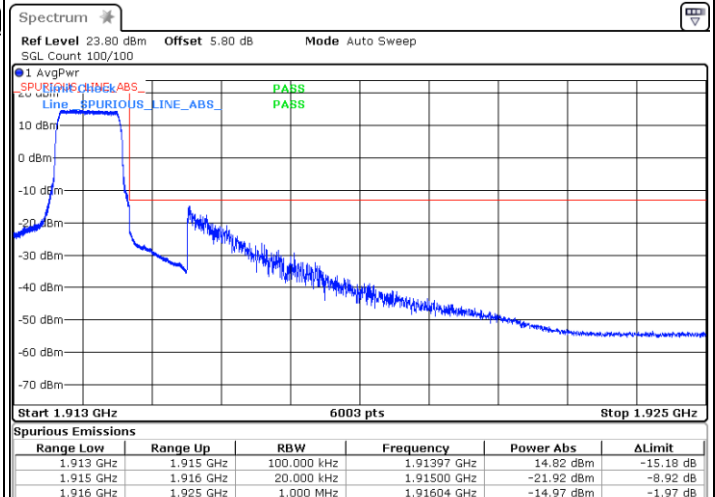
Highest Band Edge / 1RB



Lowest Band Edge / Full RB



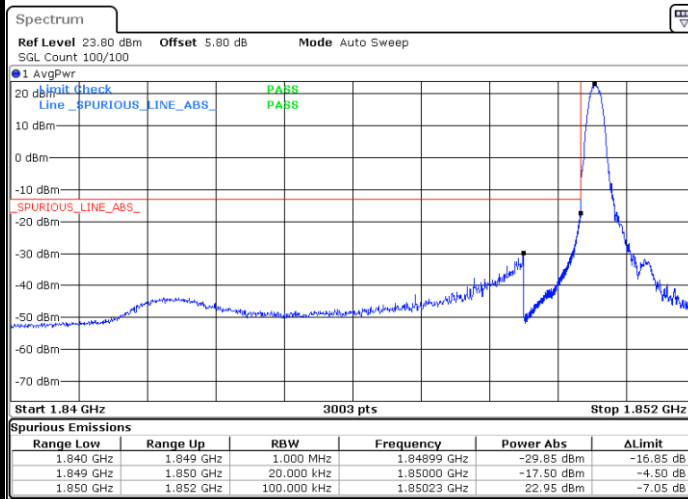
Highest Band Edge / Full RB



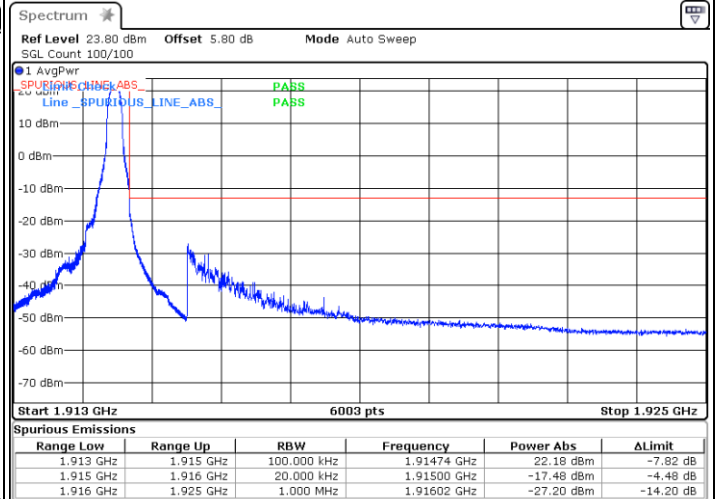


LTE Band 25 / 1.4MHz / 16QAM

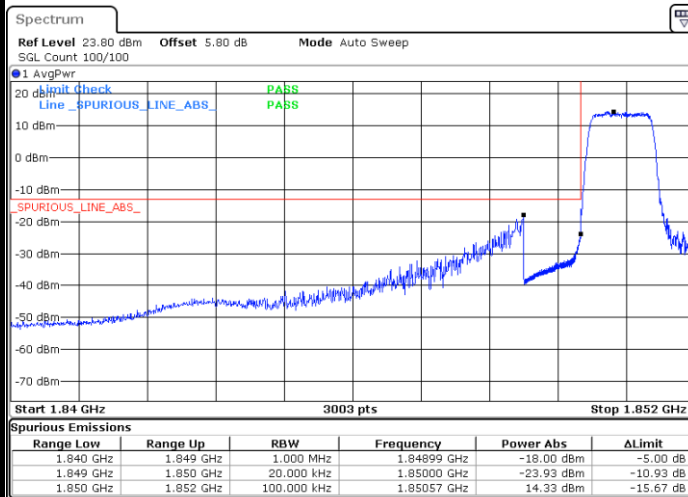
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

