



LTE Band12 / 1.4MHz / 64QAM

Lowest Band Edge / 1 RB



Date: 21.JAN.2021 20:26:58

Highest Band Edge / 1 RB



Date: 21.JAN.2021 20:33:26

Lowest Band Edge / Full RB



Date: 21.JAN.2021 20:27:48

Highest Band Edge / Full RB

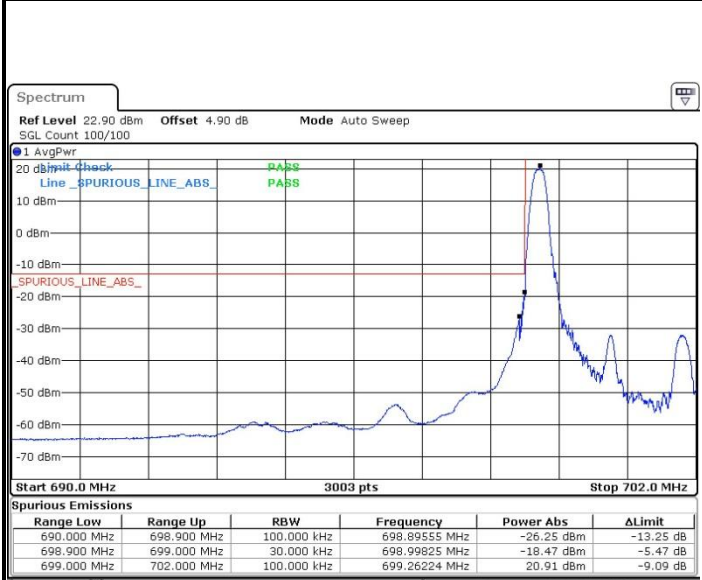


Date: 21.JAN.2021 20:32:44



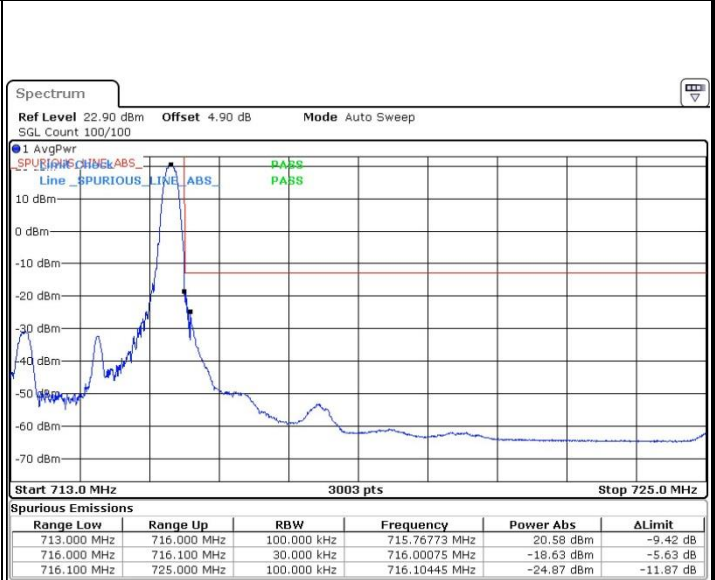
LTE Band 12 / 3MHz / QPSK

Lowest Band Edge / 1RB



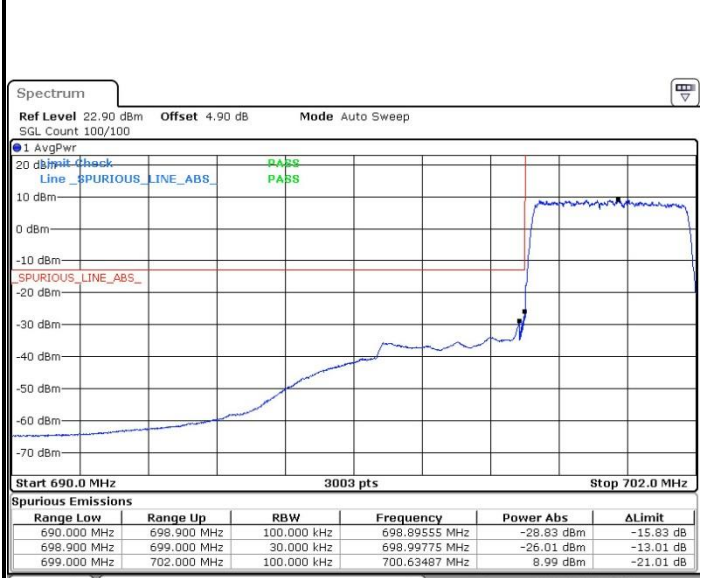
Date: 21.JAN.2021 20:36:36

Highest Band Edge / 1 RB



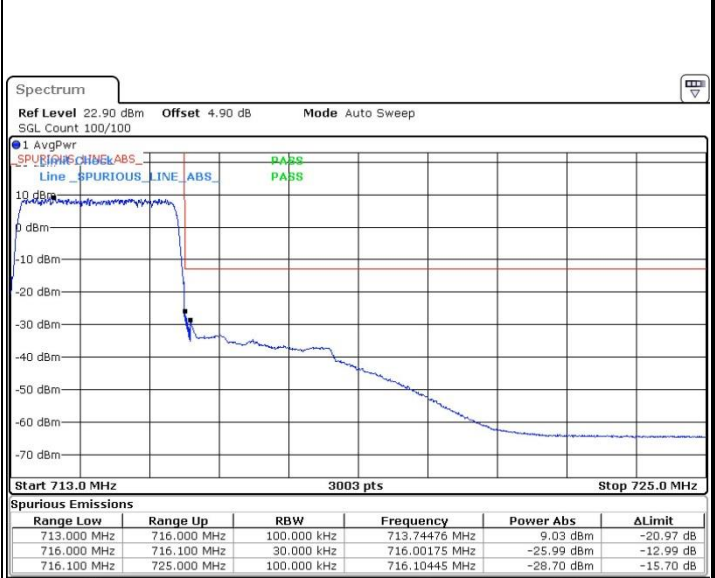
Date: 21.JAN.2021 20:43:16

Lowest Band Edge / Full RB



Date: 21.JAN.2021 20:41:00

Highest Band Edge / Full RB

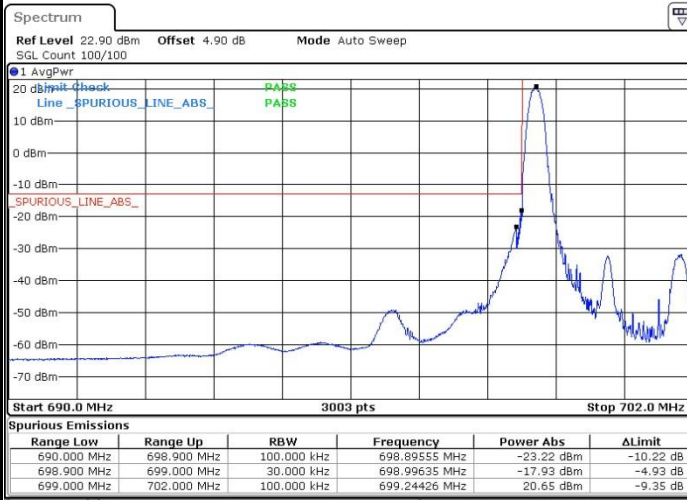


Date: 21.JAN.2021 20:46:28



LTE Band 12 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



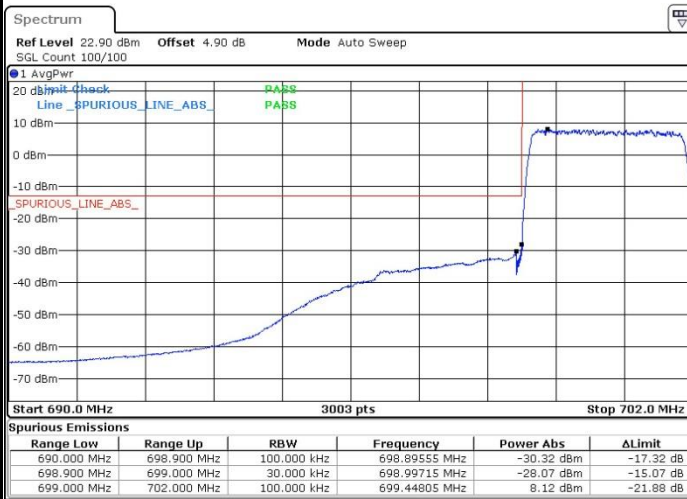
Date: 21.JAN.2021 20:37:25

Highest Band Edge / 1 RB



Date: 21.JAN.2021 20:43:54

Lowest Band Edge / Full RB



Date: 21.JAN.2021 20:40:12

Highest Band Edge / Full RB

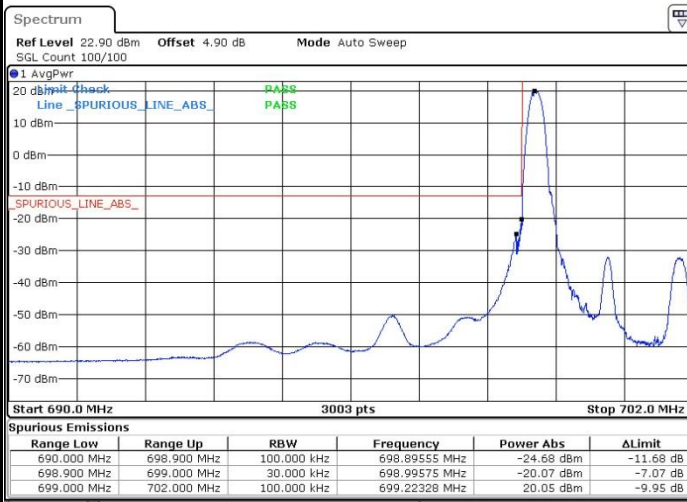


Date: 21.JAN.2021 20:45:52



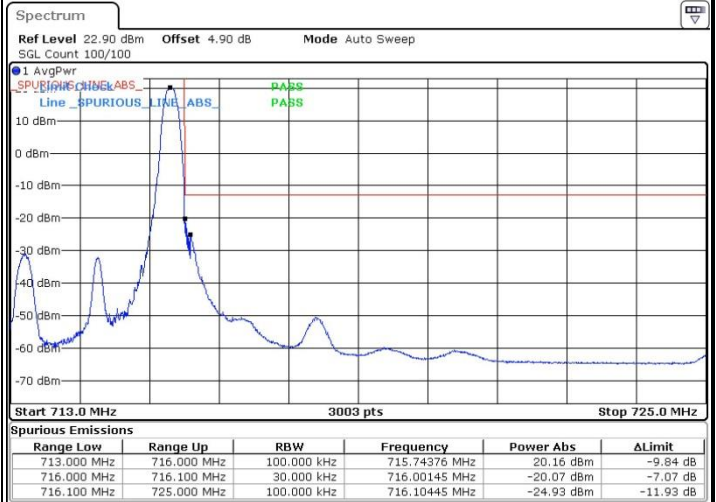
LTE Band 12 / 3MHz / 64QAM

Lowest Band Edge / 1 RB



Date: 21.JAN.2021 20:38:02

Highest Band Edge / 1 RB



Date: 21.JAN.2021 20:44:33

Lowest Band Edge / Full RB



Date: 21.JAN.2021 20:39:34

Highest Band Edge / Full RB

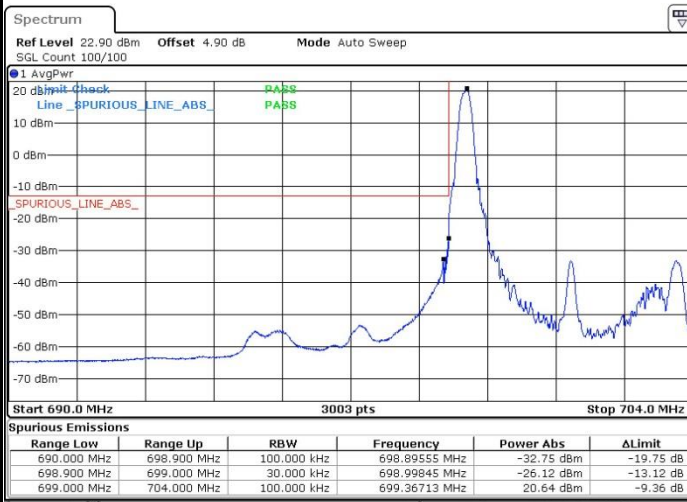


Date: 21.JAN.2021 20:45:12



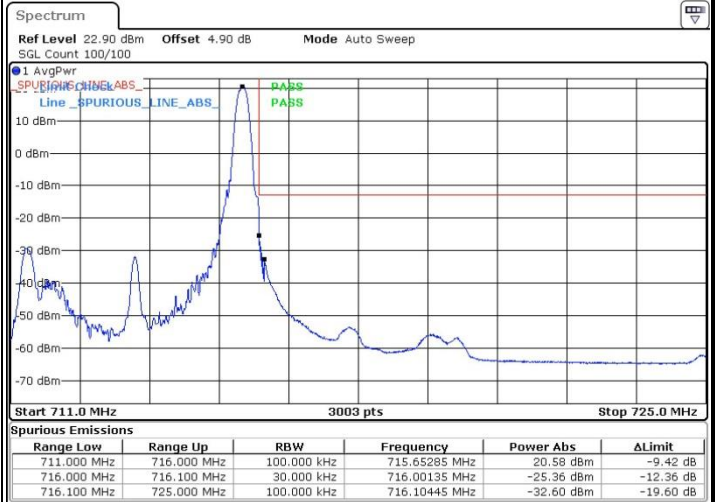
LTE Band12 / 5MHz / QPSK

Lowest Band Edge / 1 RB



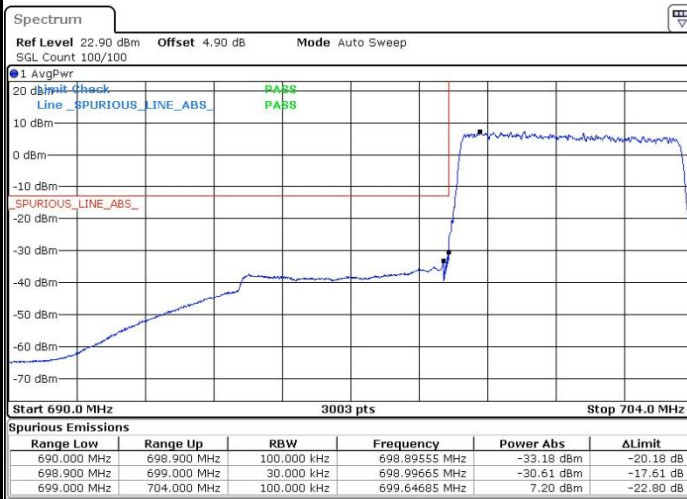
Date: 21.JAN.2021 20:48:46

Highest Band Edge / 1 RB



Date: 21.JAN.2021 20:55:54

Lowest Band Edge / Full RB



Date: 21.JAN.2021 21:00:25

Highest Band Edge / Full RB

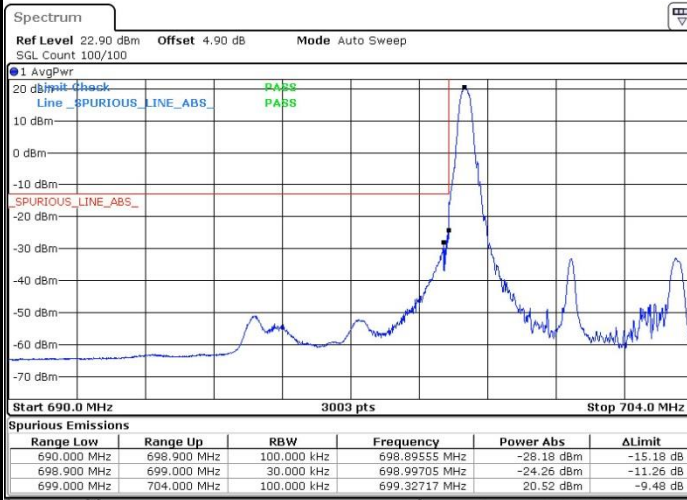


Date: 21.JAN.2021 20:59:15



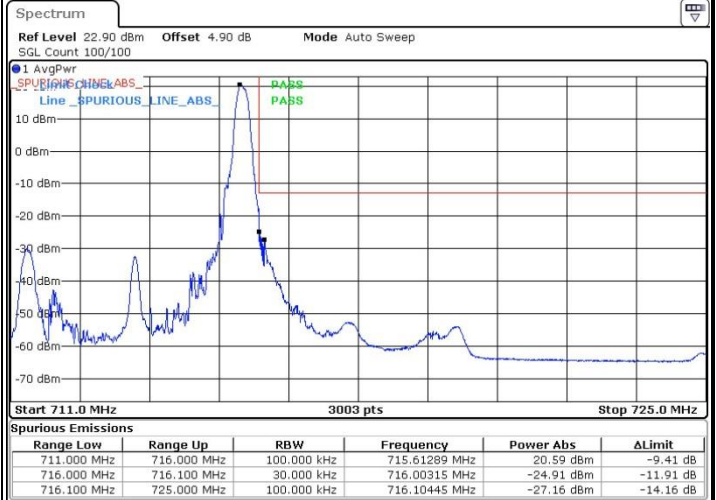
LTE Band 12/ 5MHz / 16QAM

Lowest Band Edge / 1RB



Date: 21.JAN.2021 20:50:01

Highest Band Edge / 1 RB



Date: 21.JAN.2021 20:56:52

Lowest Band Edge / Full RB



Date: 21.JAN.2021 21:01:51

Highest Band Edge / Full RB

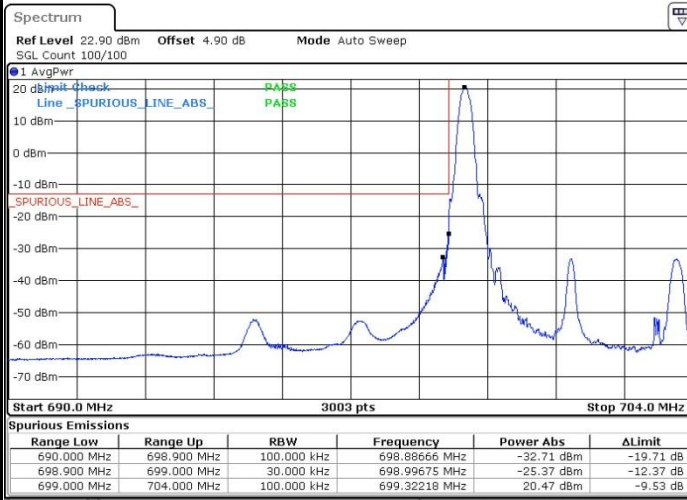


Date: 21.JAN.2021 20:58:40



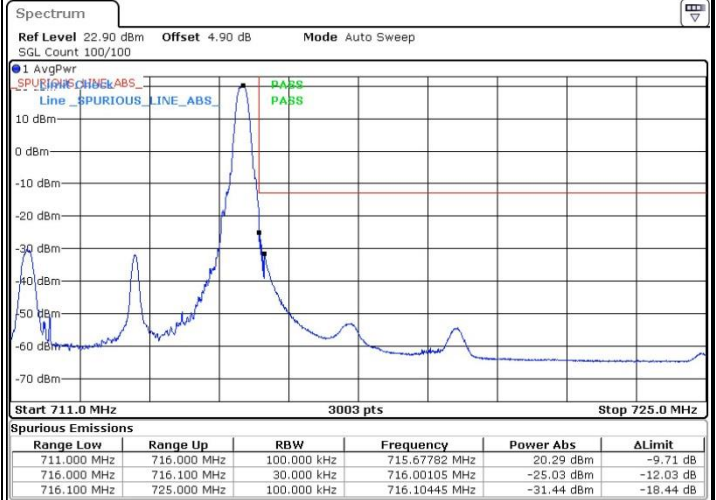
LTE Band 12 / 5MHz / 64QAM

Lowest Band Edge / 1RB



Date: 21.JAN.2021 20:51:52

Highest Band Edge / 1 RB



Date: 21.JAN.2021 20:57:27

Lowest Band Edge / Full RB



Date: 21.JAN.2021 21:03:37

Highest Band Edge / Full RB

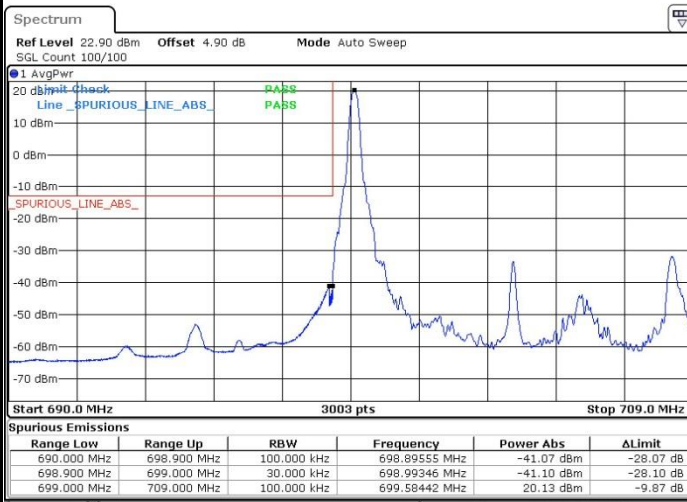


Date: 21.JAN.2021 20:58:05



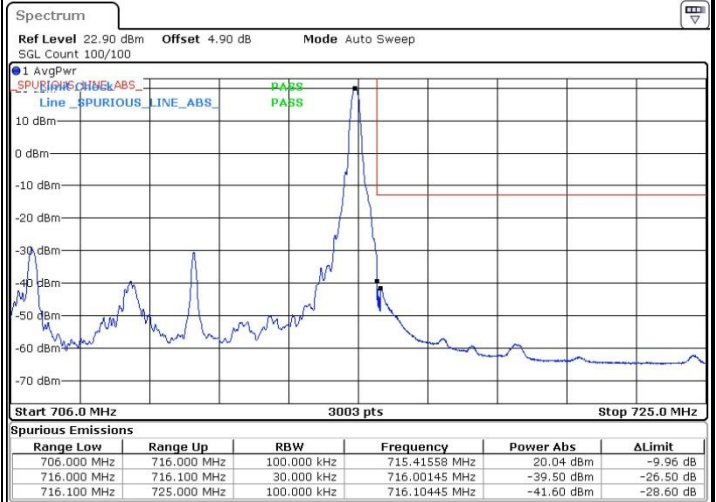
LTE Band 12 / 10MHz / QPSK

Lowest Band Edge / 1 RB



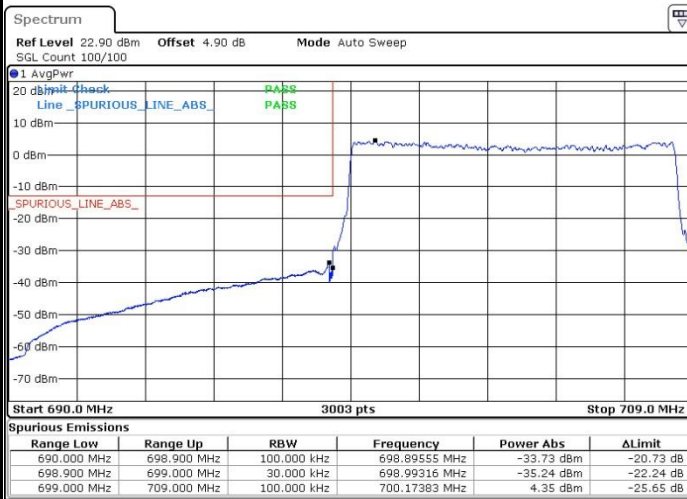
Date: 21.JAN.2021 21:05:41

Highest Band Edge / 1 RB



Date: 21.JAN.2021 21:18:13

Lowest Band Edge / Full RB



Date: 21.JAN.2021 21:09:25

Highest Band Edge / Full RB

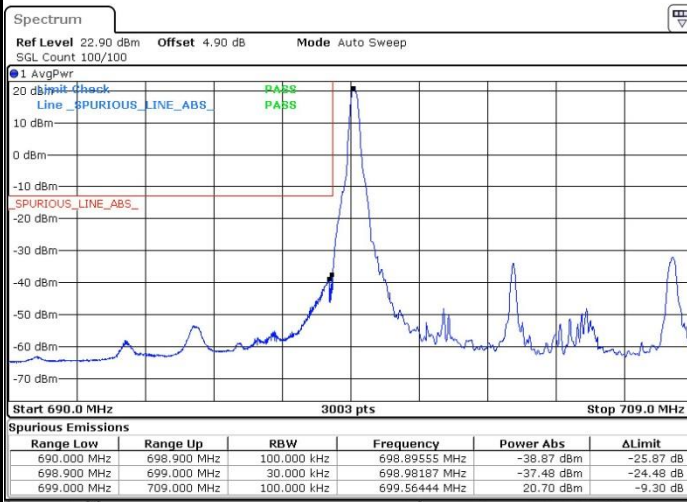


Date: 21.JAN.2021 21:17:12



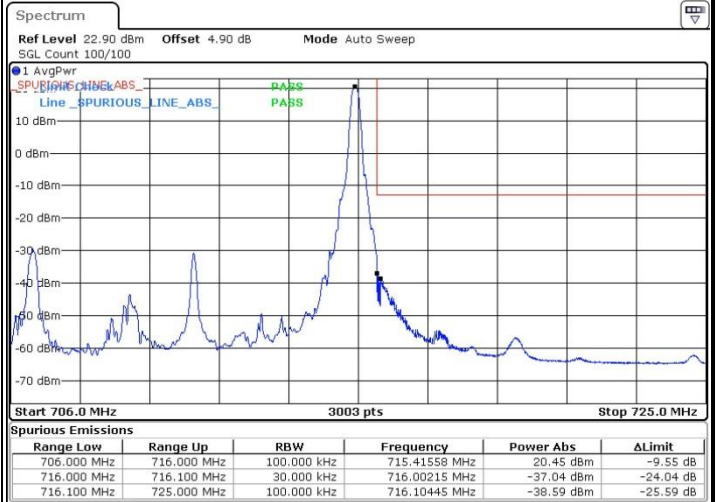
LTE Band 12 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



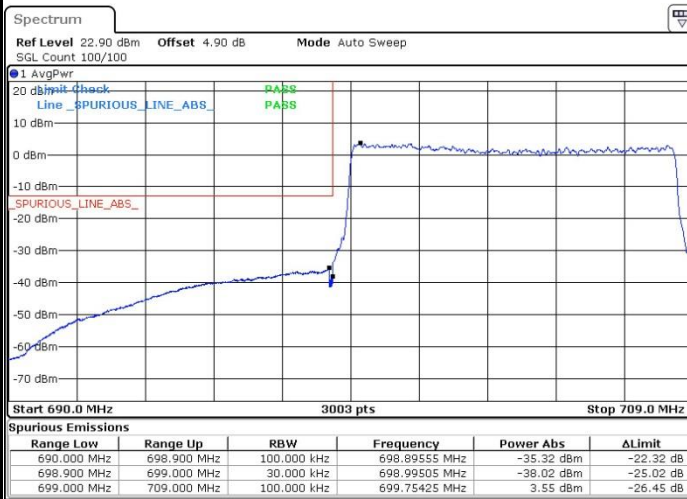
Date: 21.JAN.2021 21:06:18

Highest Band Edge / 1 RB



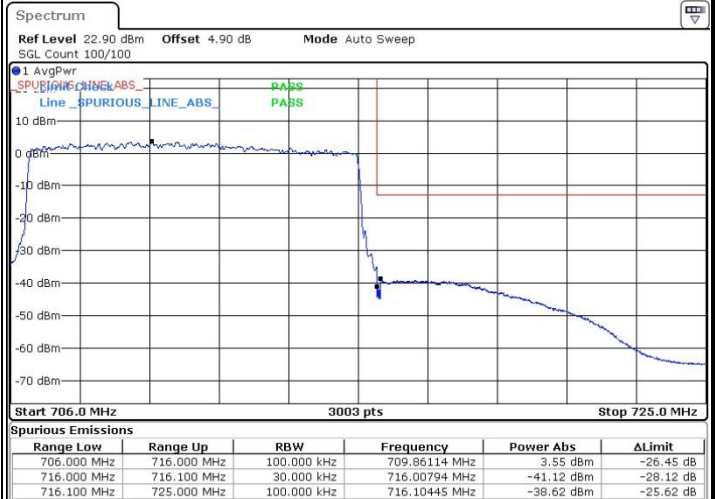
Date: 21.JAN.2021 21:20:09

Lowest Band Edge / Full RB



Date: 21.JAN.2021 21:11:23

Highest Band Edge / Full RB

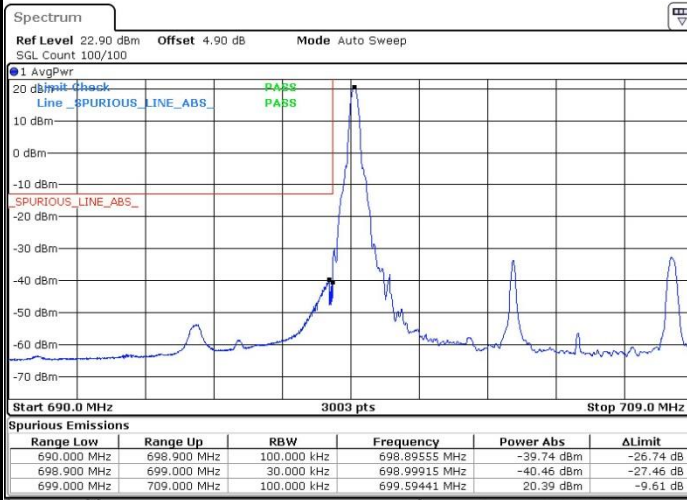


Date: 21.JAN.2021 21:16:28



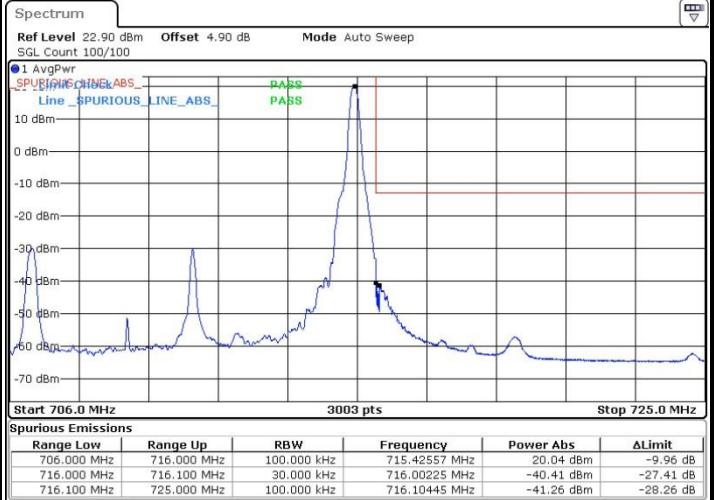
LTE Band 12 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



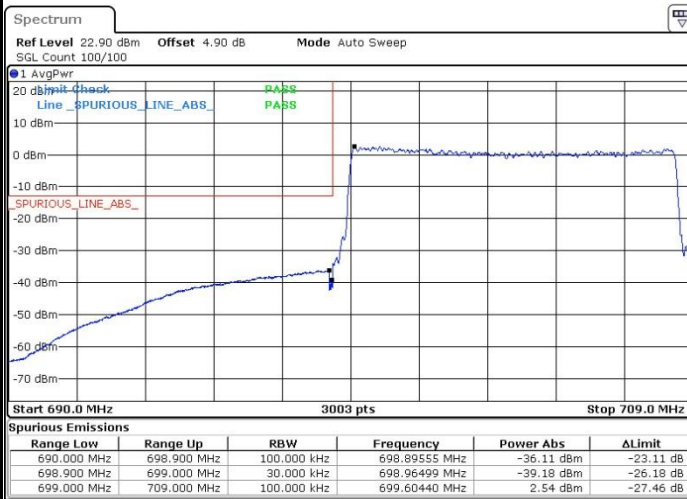
Date: 21.JAN.2021 21:06:59

Highest Band Edge / 1 RB



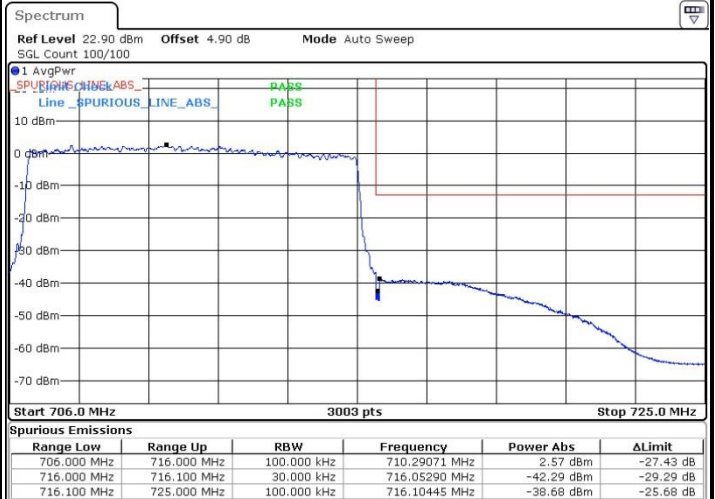
Date: 21.JAN.2021 21:20:50

Lowest Band Edge / Full RB



Date: 21.JAN.2021 21:11:58

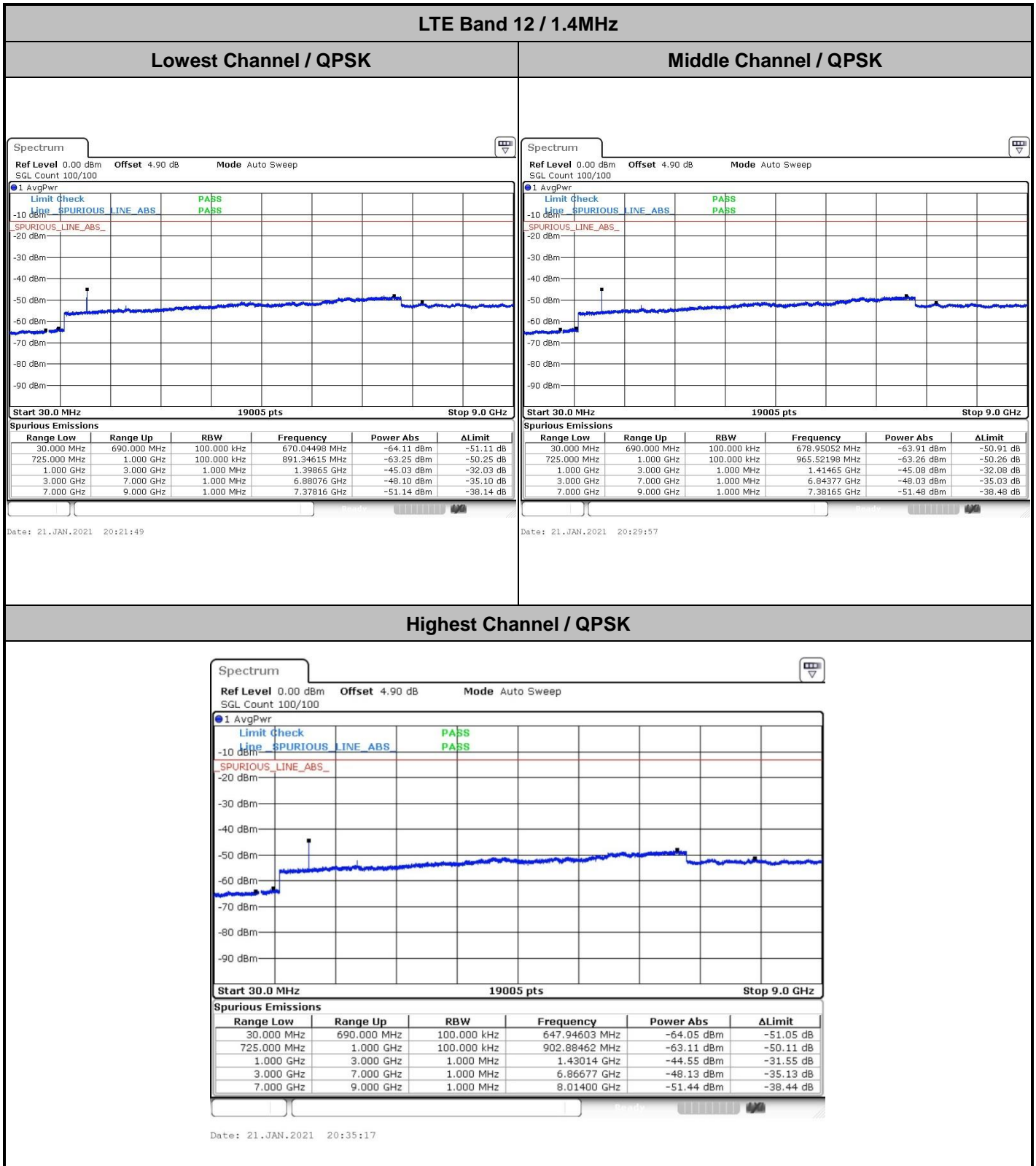
Highest Band Edge / Full RB



Date: 21.JAN.2021 21:15:49



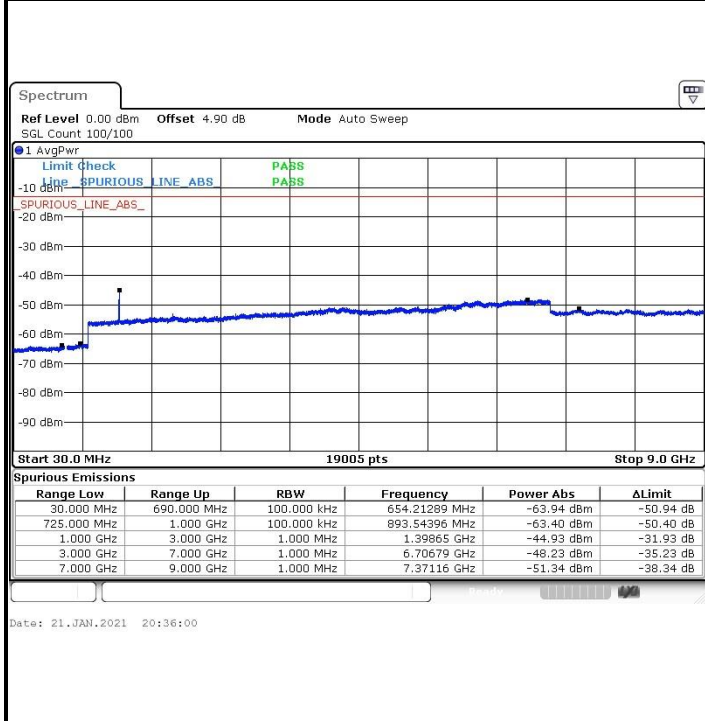
Conducted Spurious Emission



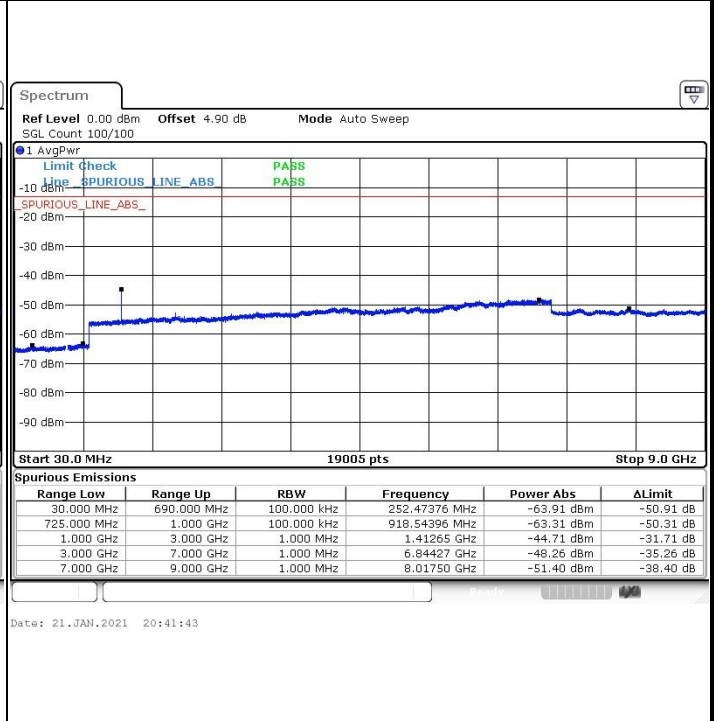


LTE Band 12 / 3MHz

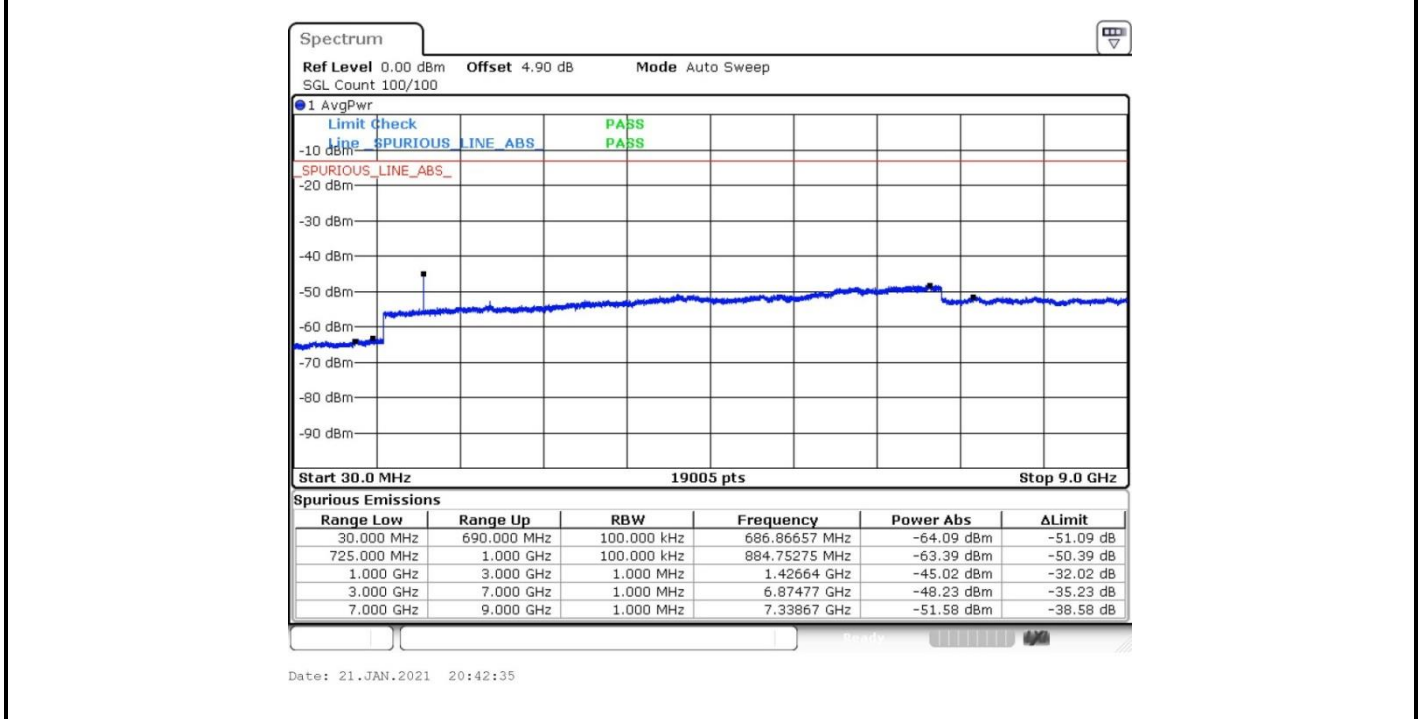
Lowest Channel / QPSK



Middle Channel / QPSK



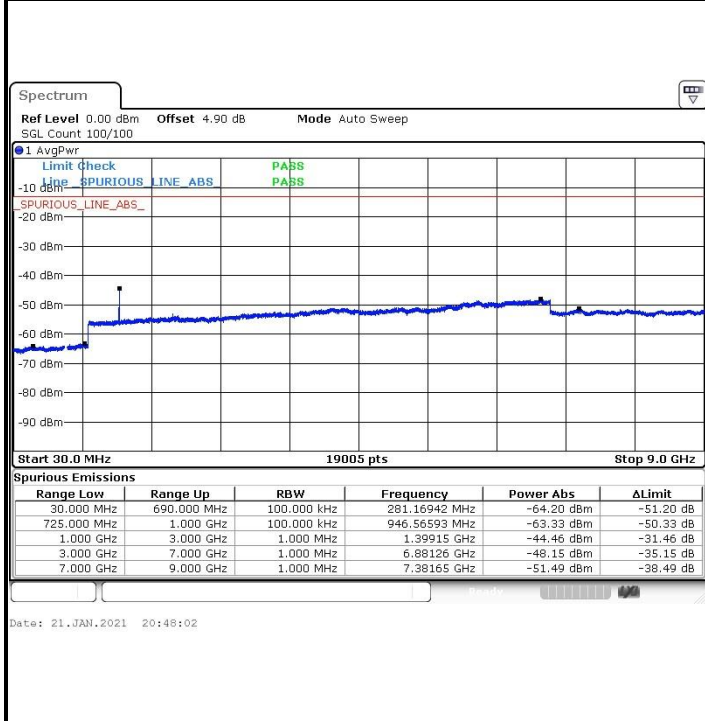
Highest Channel / QPSK



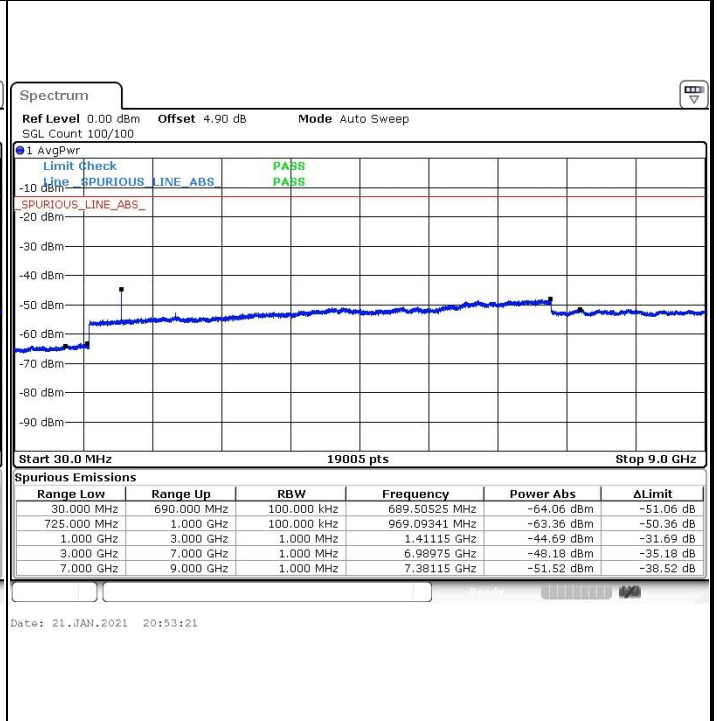


LTE Band 12 / 5MHz

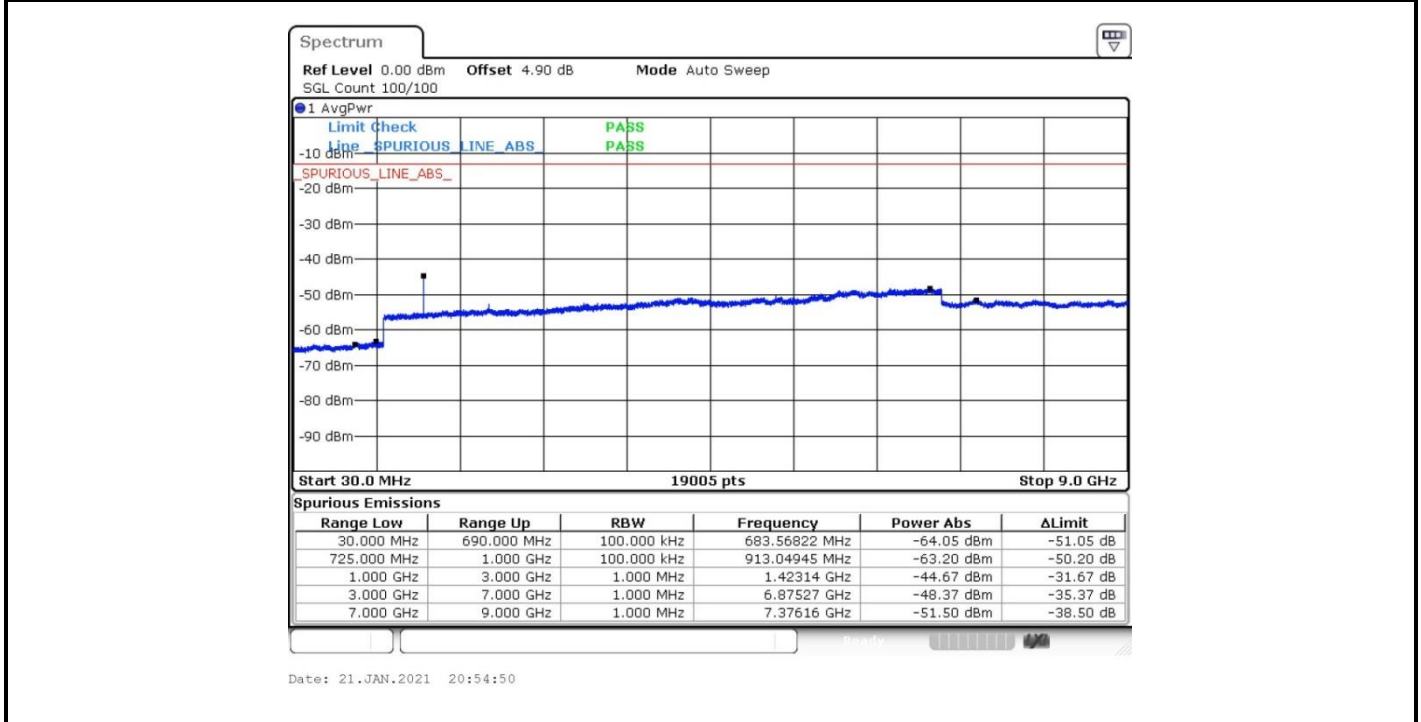
Lowest Channel / QPSK



Middle Channel / QPSK



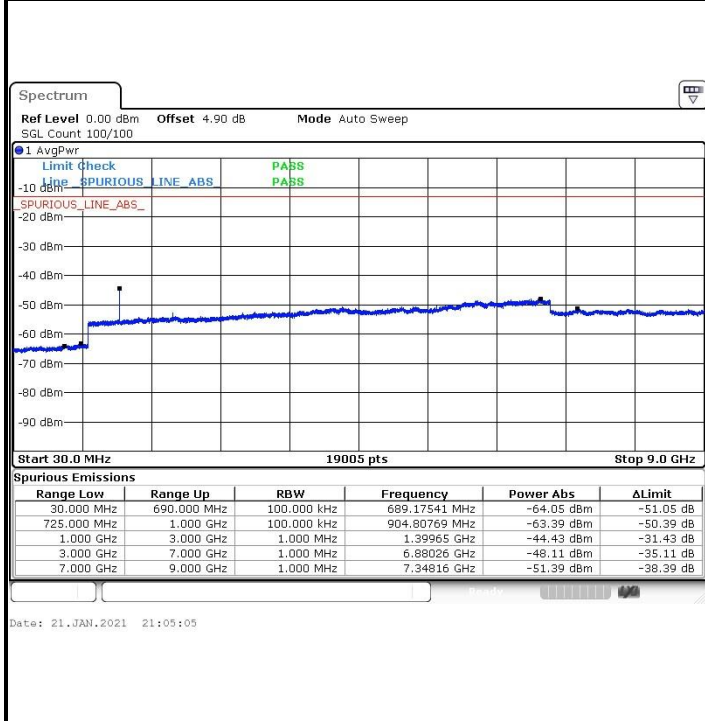
Highest Channel / QPSK



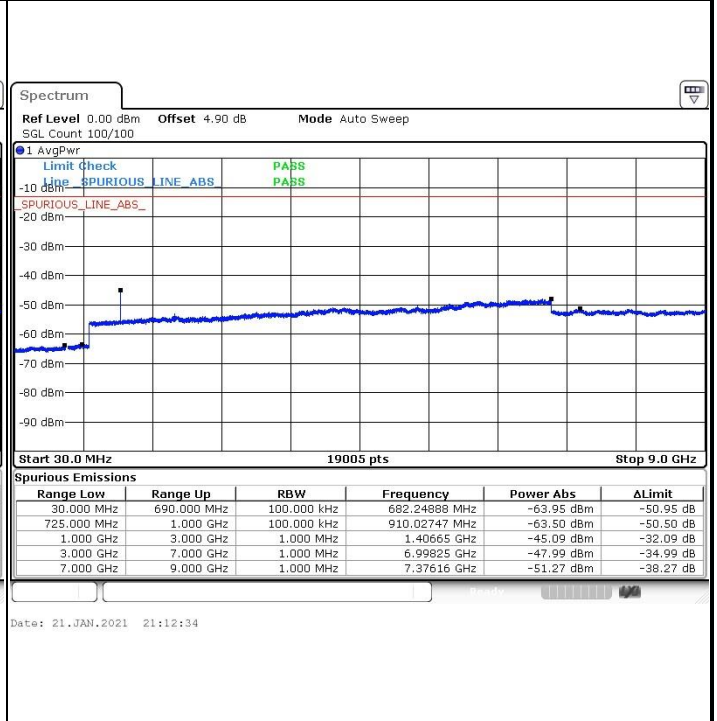


LTE Band 12 / 10MHz

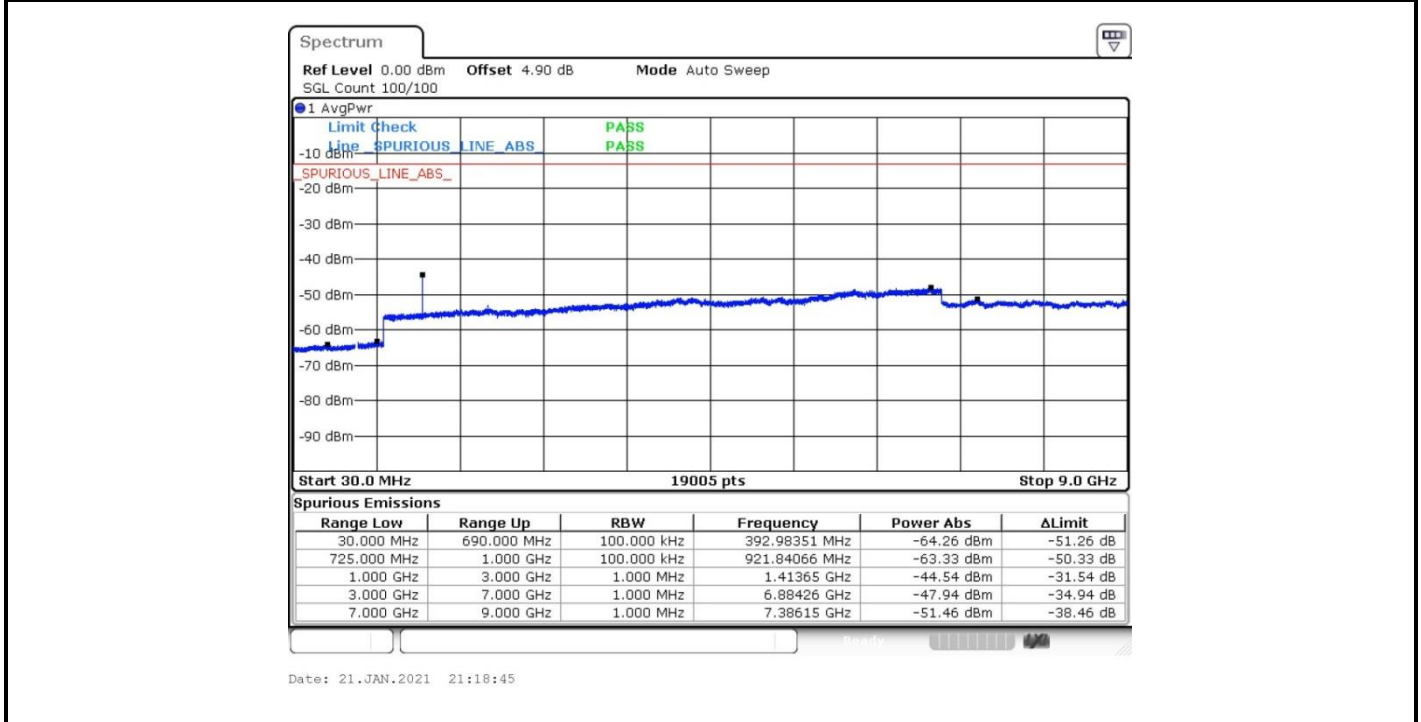
Lowest Channel / QPSK



Middle Channel / QPSK



Highest Channel / QPSK





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	0.0030	PASS
40	Normal Voltage	0.0046	
30	Normal Voltage	0.0012	
20(Ref.)	Normal Voltage	0.0001	
10	Normal Voltage	0.0018	
0	Normal Voltage	0.0012	
-10	Normal Voltage	0.0013	
-20	Normal Voltage	0.0006	
-30	Normal Voltage	0.0045	
20	Maximum Voltage	0.0010	
20	Normal Voltage	0.0010	
20	Battery End Point	0.0012	

Note:

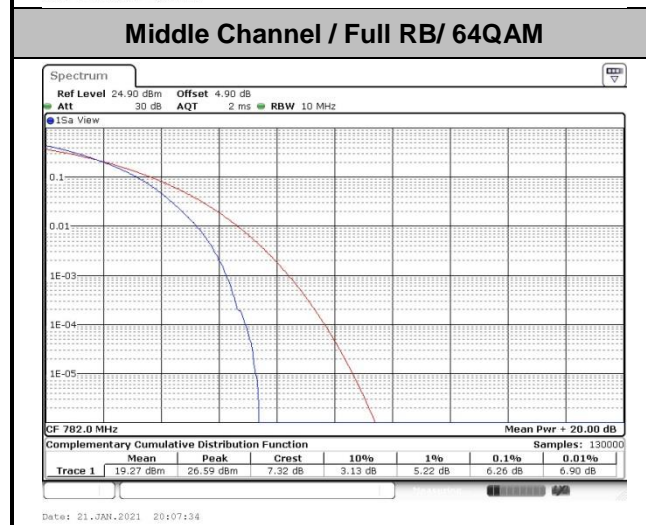
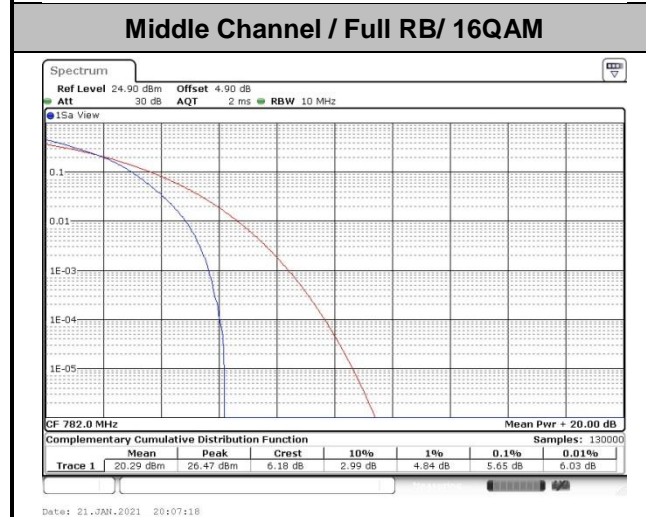
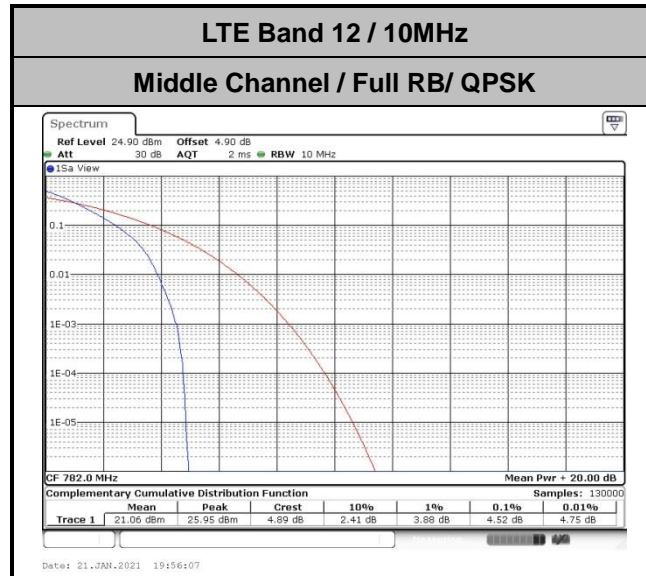
1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 13

Peak-to-Average Ratio

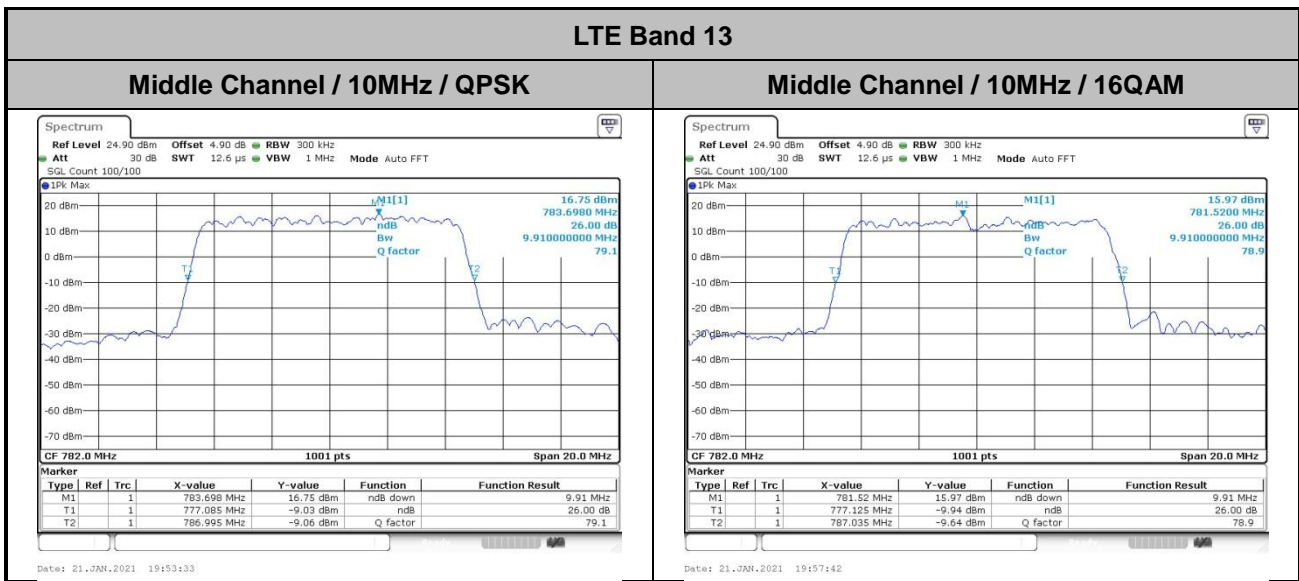
Mode	LTE Band 13 / 10MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	4.52	5.65	6.26	PASS





26dB Bandwidth

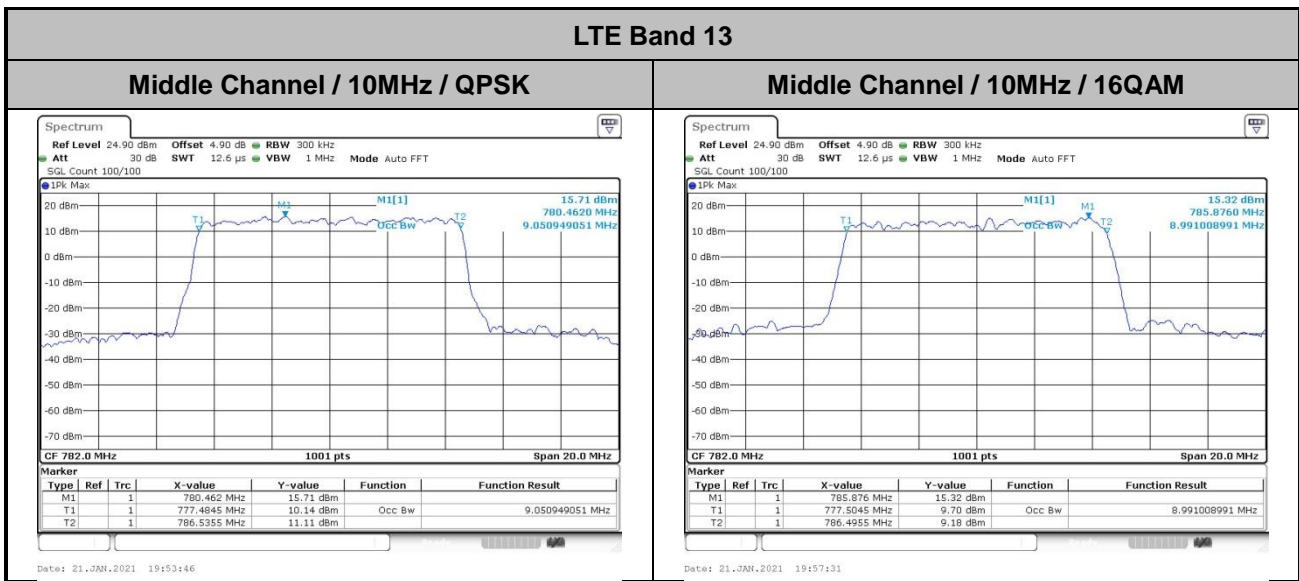
Mode	LTE Band 13 : 26dB BW(MHz)	
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.91	9.91





Occupied Bandwidth

Mode	LTE Band 13 : 99%OBW(MHz)	
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.05	8.99

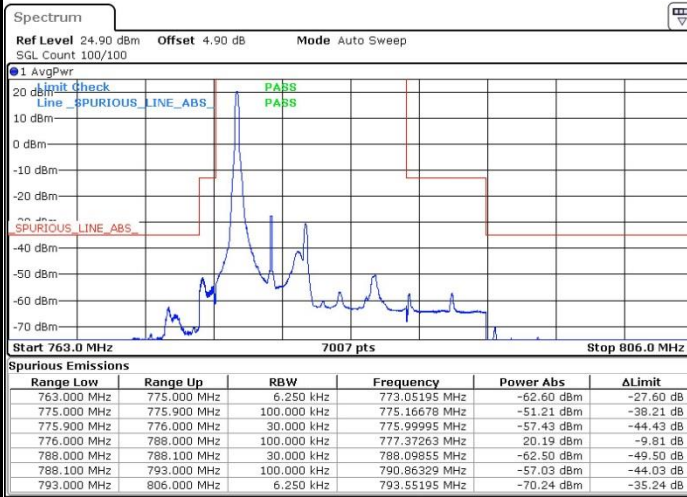




Conducted Band Edge

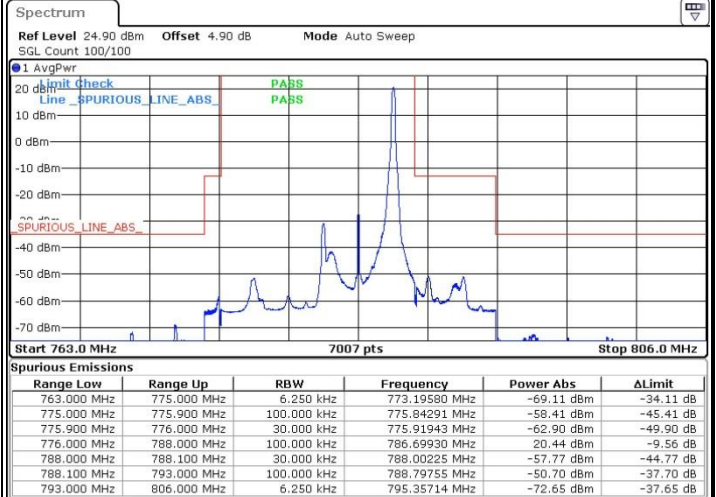
LTE Band 13 / 5MHz / QPSK

Lowest Band Edge / 1RB



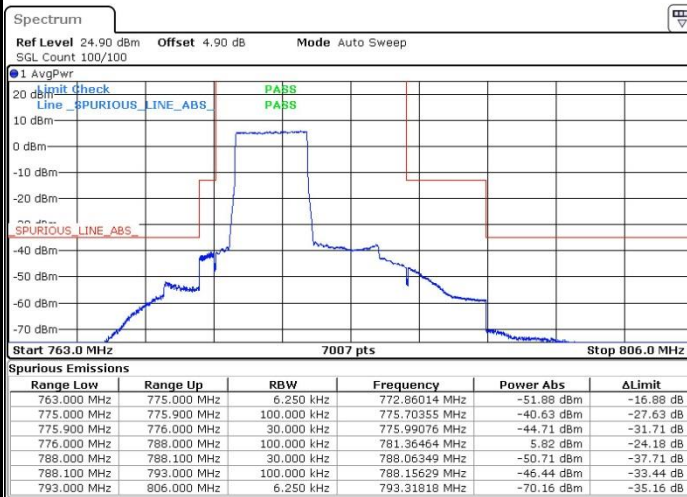
Date: 21.JAN.2021 19:31:25

Highest Band Edge / 1RB



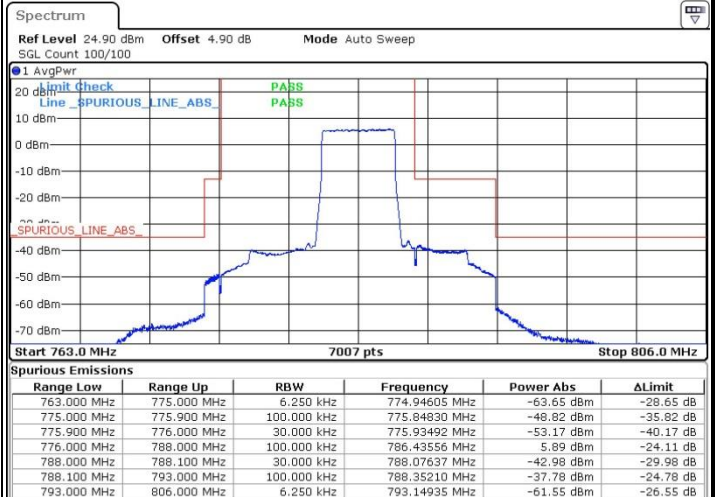
Date: 21.JAN.2021 19:43:52

Lowest Band Edge / Full RB



Date: 21.JAN.2021 19:41:13

Highest Band Edge / Full RB



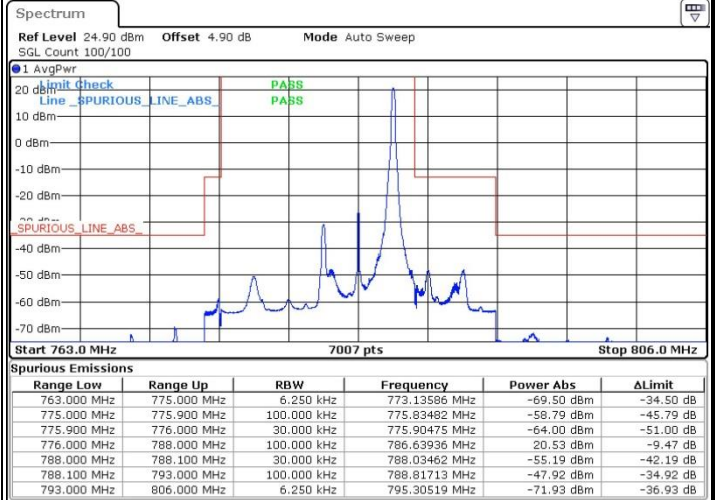
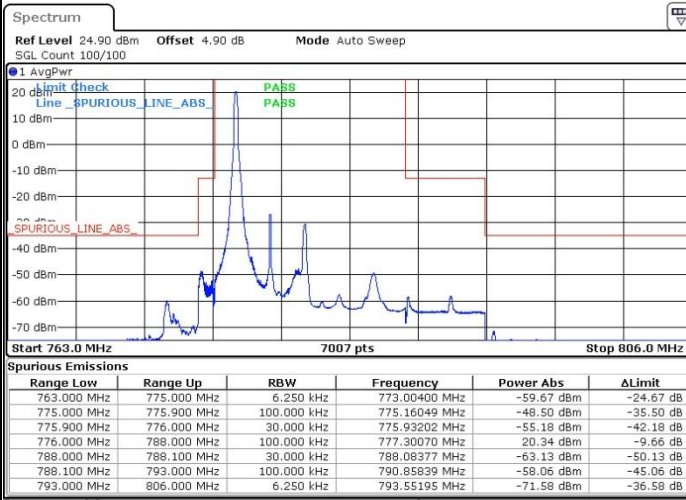
Date: 21.JAN.2021 19:51:56



LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

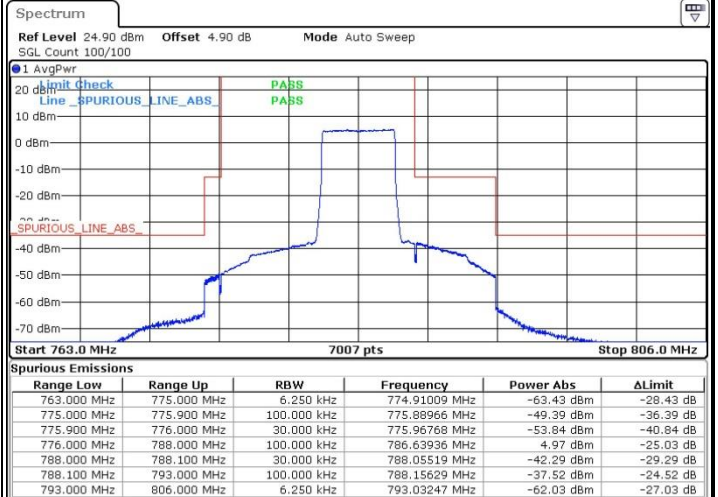
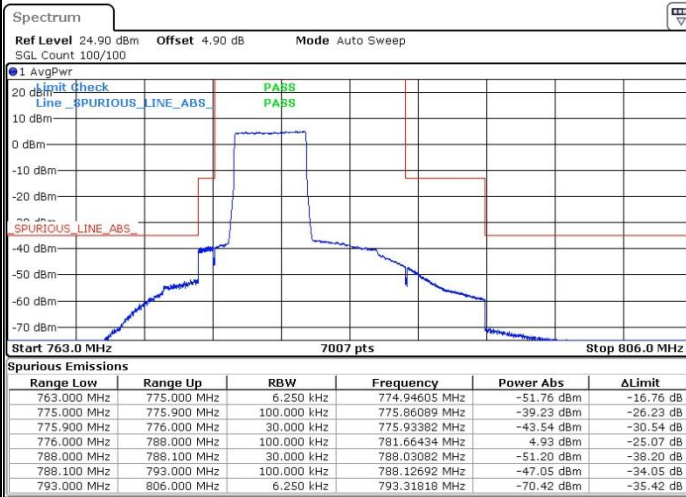


Date: 21.JAN.2021 19:35:28

Date: 21.JAN.2021 19:45:16

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 21.JAN.2021 19:39:57

Date: 21.JAN.2021 19:50:45