



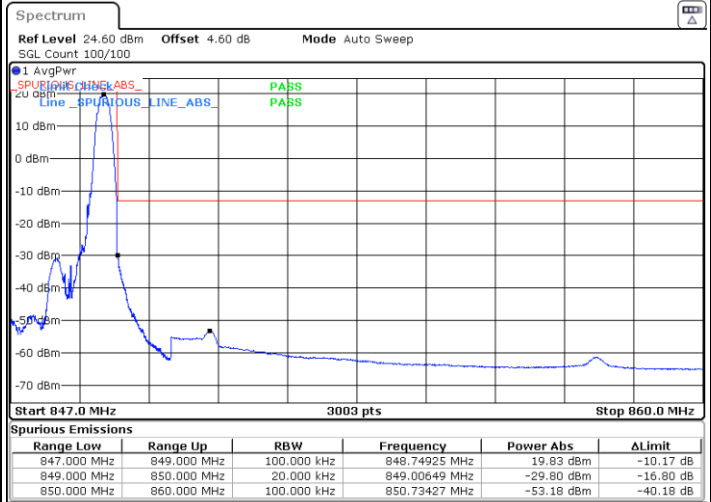
LTE Band 5 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



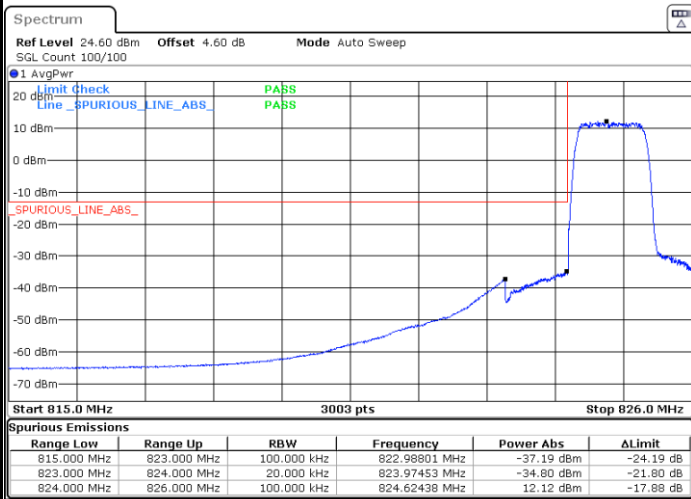
Date: 21.OCT.2022 12:12:27

Highest Band Edge / 1 RB



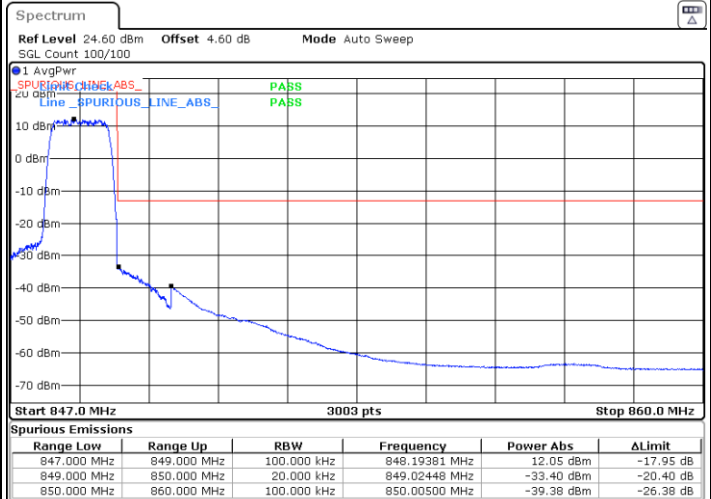
Date: 21.OCT.2022 12:22:27

Lowest Band Edge / Full RB



Date: 21.OCT.2022 12:16:07

Highest Band Edge / Full RB

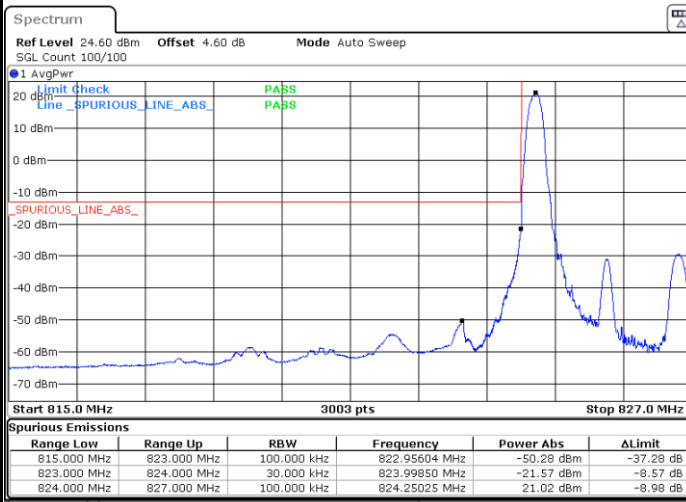


Date: 21.OCT.2022 12:26:07



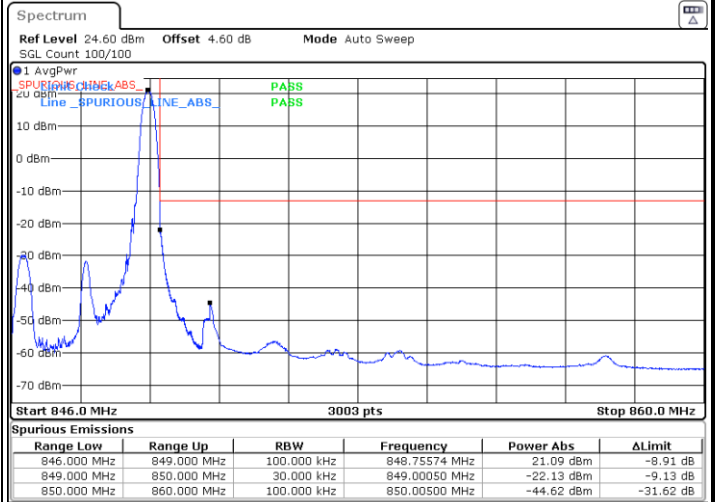
LTE Band 5 / 3MHz / QPSK

Lowest Band Edge / 1RB



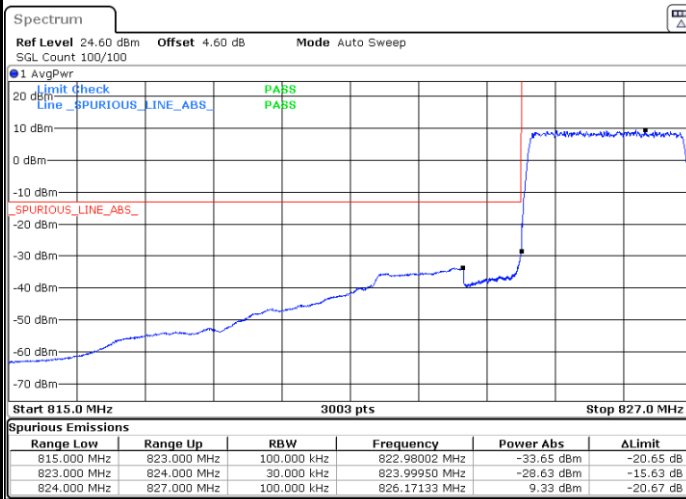
Date: 21.OCT.2022 12:29:18

Highest Band Edge / 1 RB



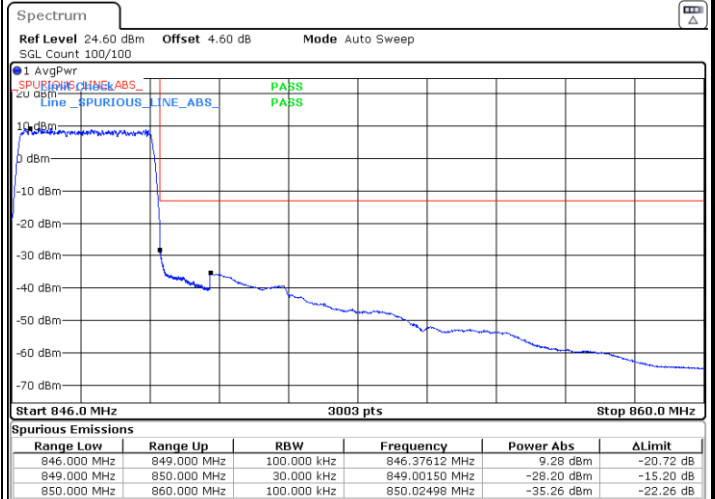
Date: 21.OCT.2022 12:39:19

Lowest Band Edge / Full RB



Date: 21.OCT.2022 12:32:59

Highest Band Edge / Full RB

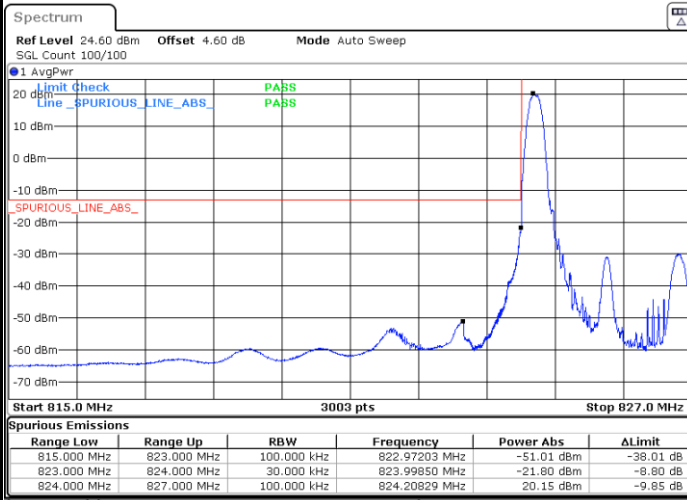


Date: 21.OCT.2022 12:42:59



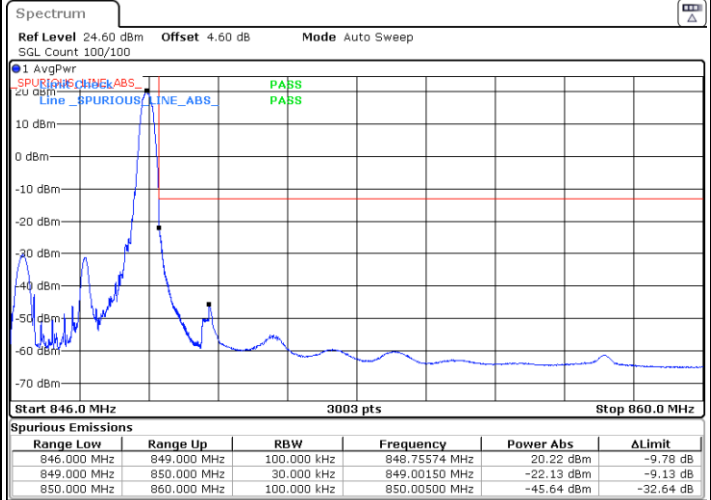
LTE Band 5 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



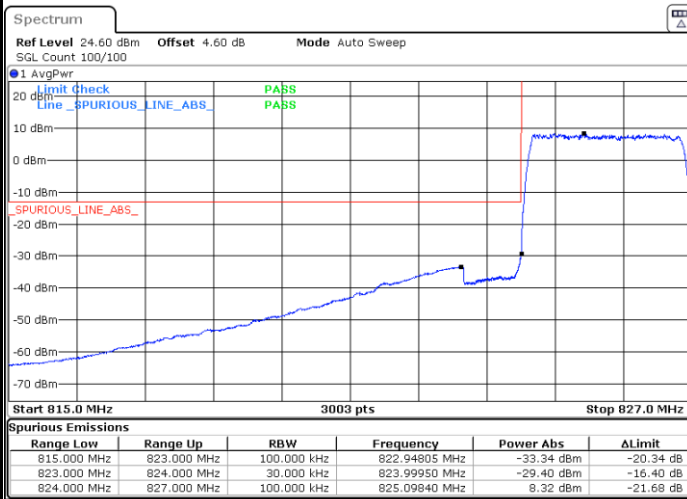
Date: 21.OCT.2022 12:31:09

Highest Band Edge / 1 RB



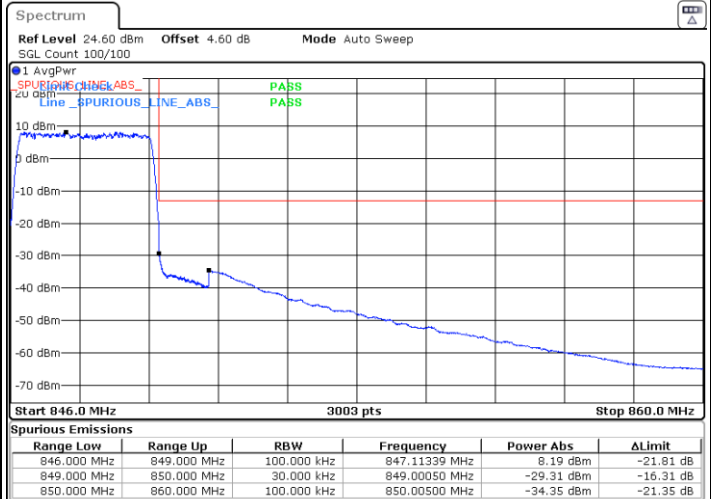
Date: 21.OCT.2022 12:41:09

Lowest Band Edge / Full RB



Date: 21.OCT.2022 12:34:49

Highest Band Edge / Full RB

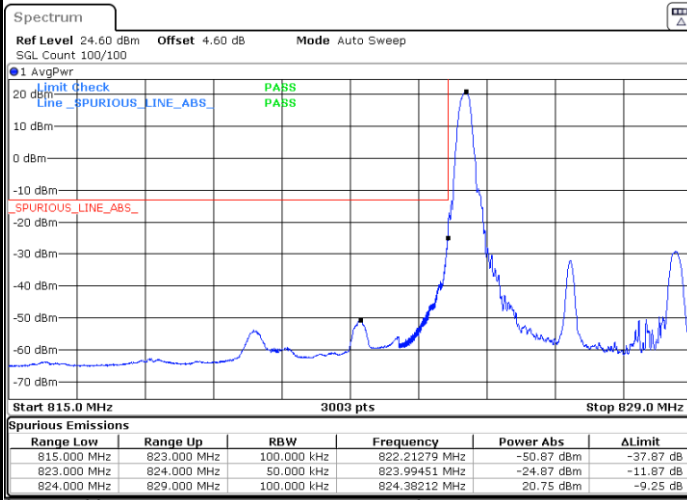


Date: 21.OCT.2022 12:44:50



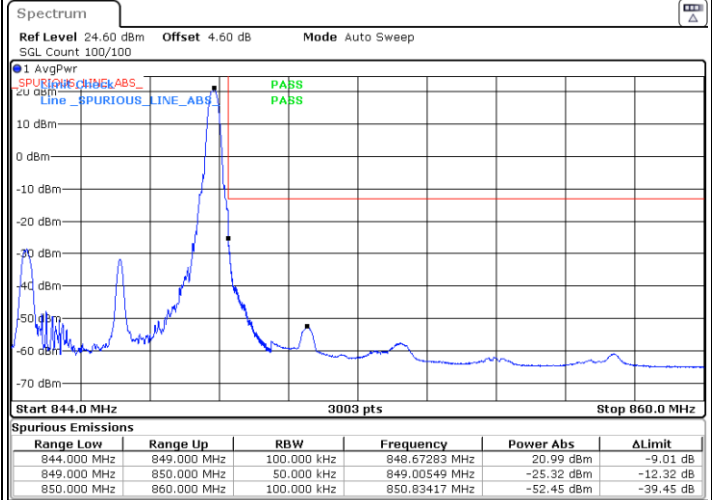
LTE Band 5 / 5MHz / QPSK

Lowest Band Edge / 1 RB



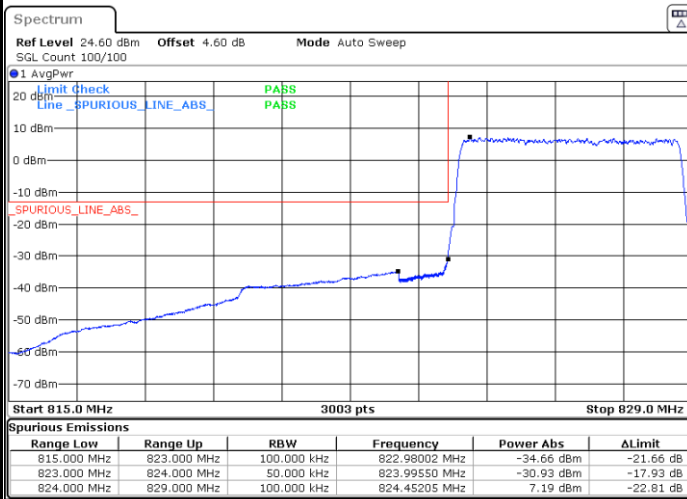
Date: 21.OCT.2022 12:48:00

Highest Band Edge / 1 RB



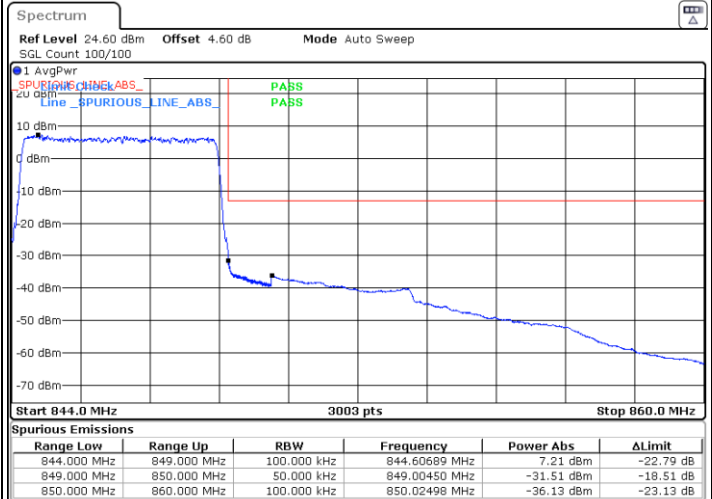
Date: 21.OCT.2022 12:58:02

Lowest Band Edge / Full RB



Date: 21.OCT.2022 12:51:41

Highest Band Edge / Full RB

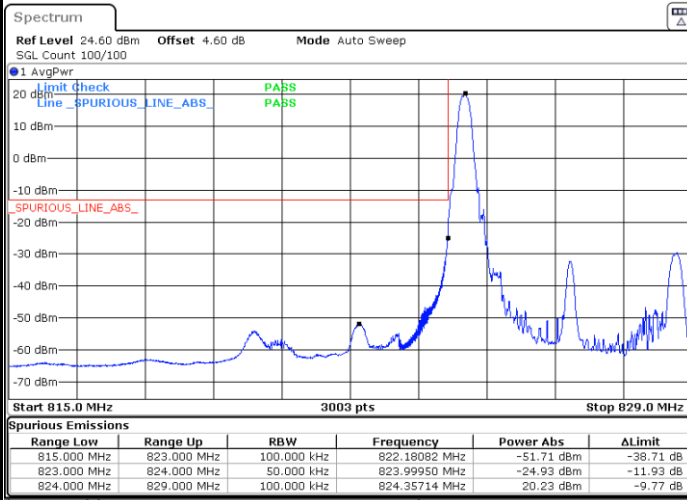


Date: 21.OCT.2022 13:01:44



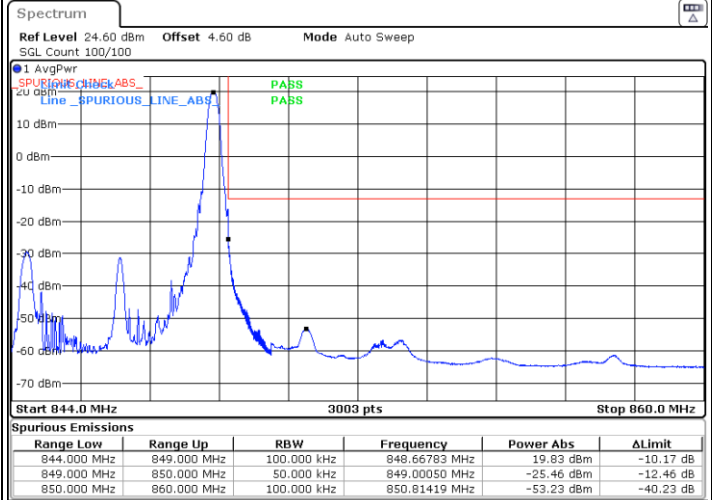
LTE Band 5 / 5MHz / 16QAM

Lowest Band Edge / 1RB



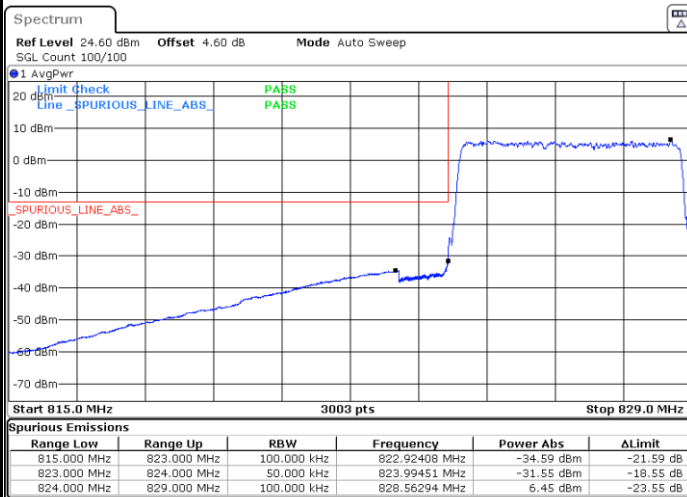
Date: 21.OCT.2022 12:49:50

Highest Band Edge / 1 RB



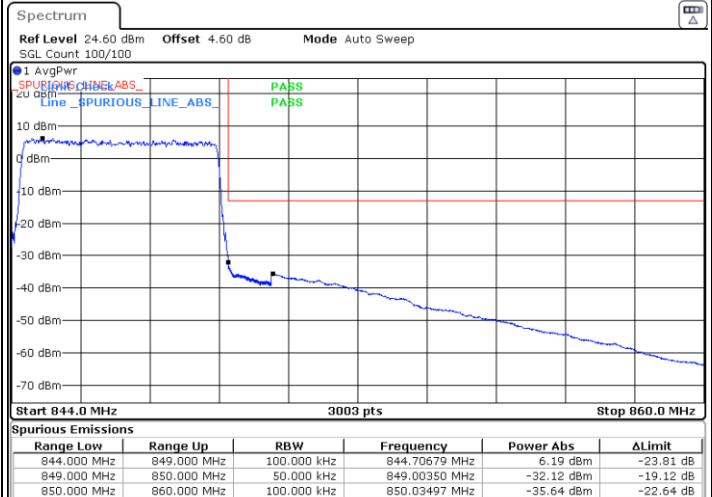
Date: 21.OCT.2022 12:59:53

Lowest Band Edge / Full RB



Date: 21.OCT.2022 12:53:31

Highest Band Edge / Full RB

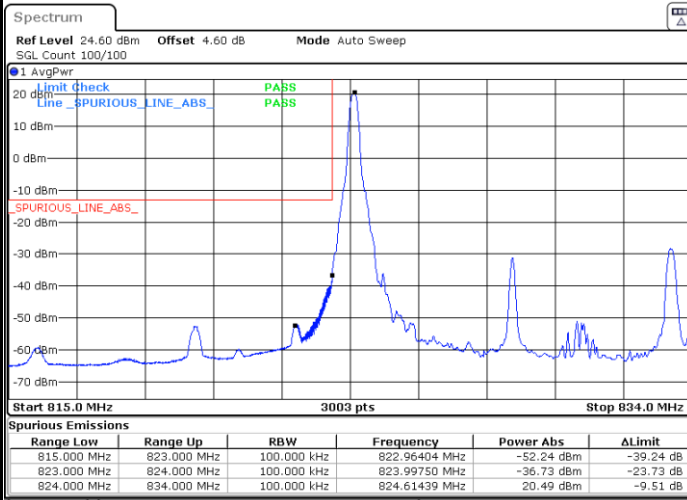


Date: 21.OCT.2022 13:03:34



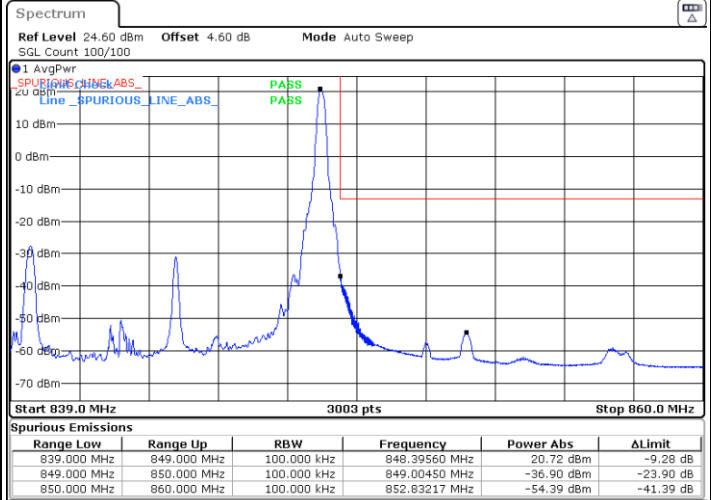
LTE Band 5 / 10MHz / QPSK

Lowest Band Edge / 1 RB



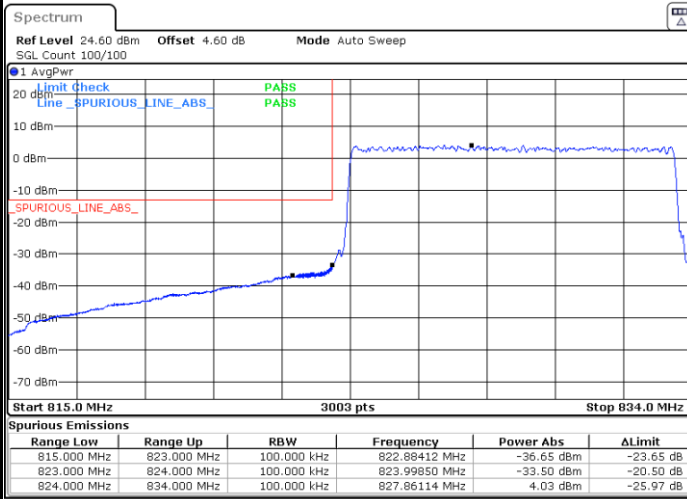
Date: 21.OCT.2022 13:06:46

Highest Band Edge / 1 RB



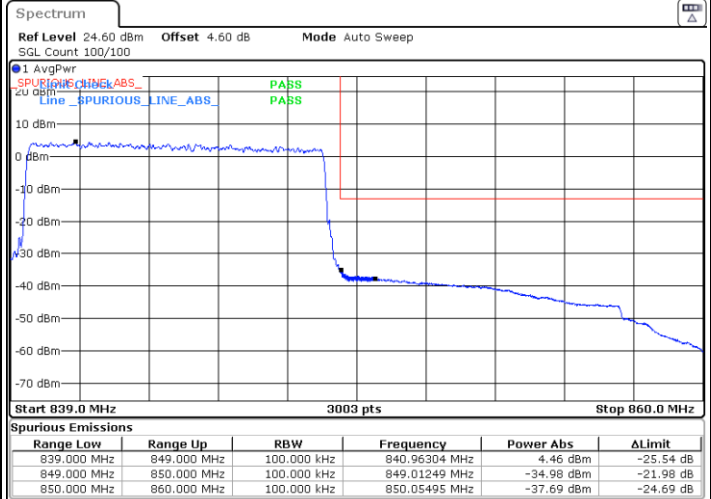
Date: 21.OCT.2022 13:16:48

Lowest Band Edge / Full RB



Date: 21.OCT.2022 13:10:28

Highest Band Edge / Full RB

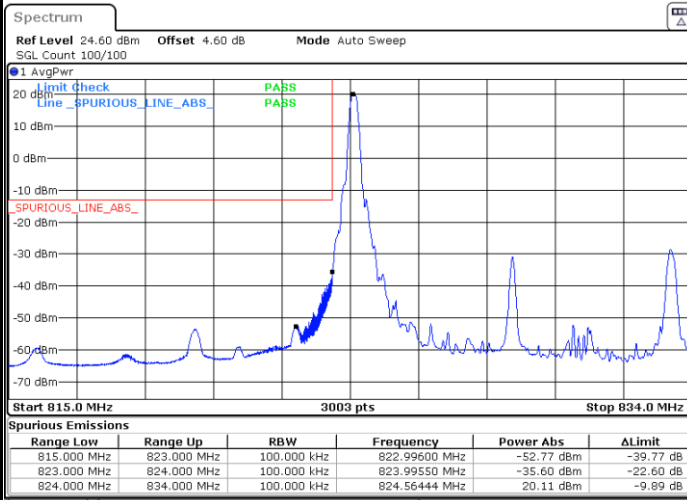


Date: 21.OCT.2022 13:20:29

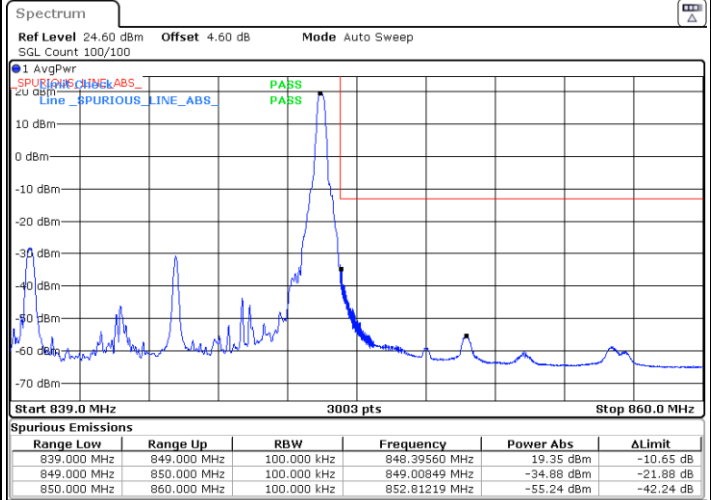


LTE Band 5 / 10MHz / 16QAM

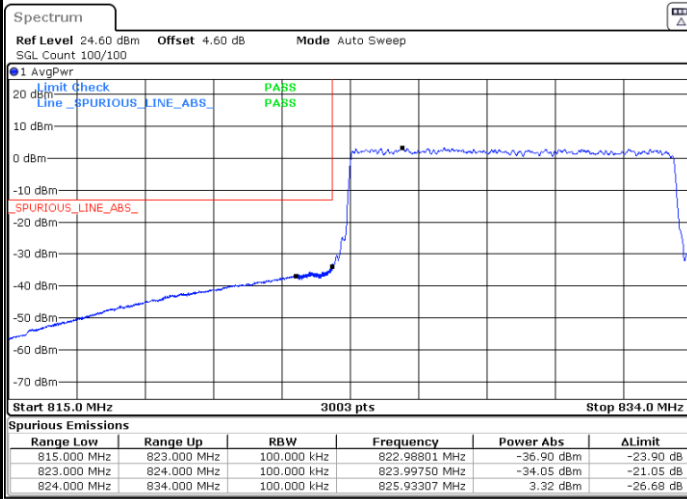
Lowest Band Edge / 1 RB



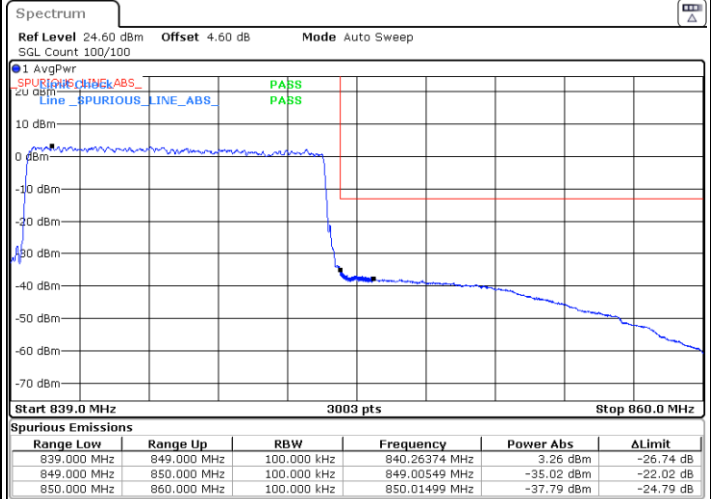
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB

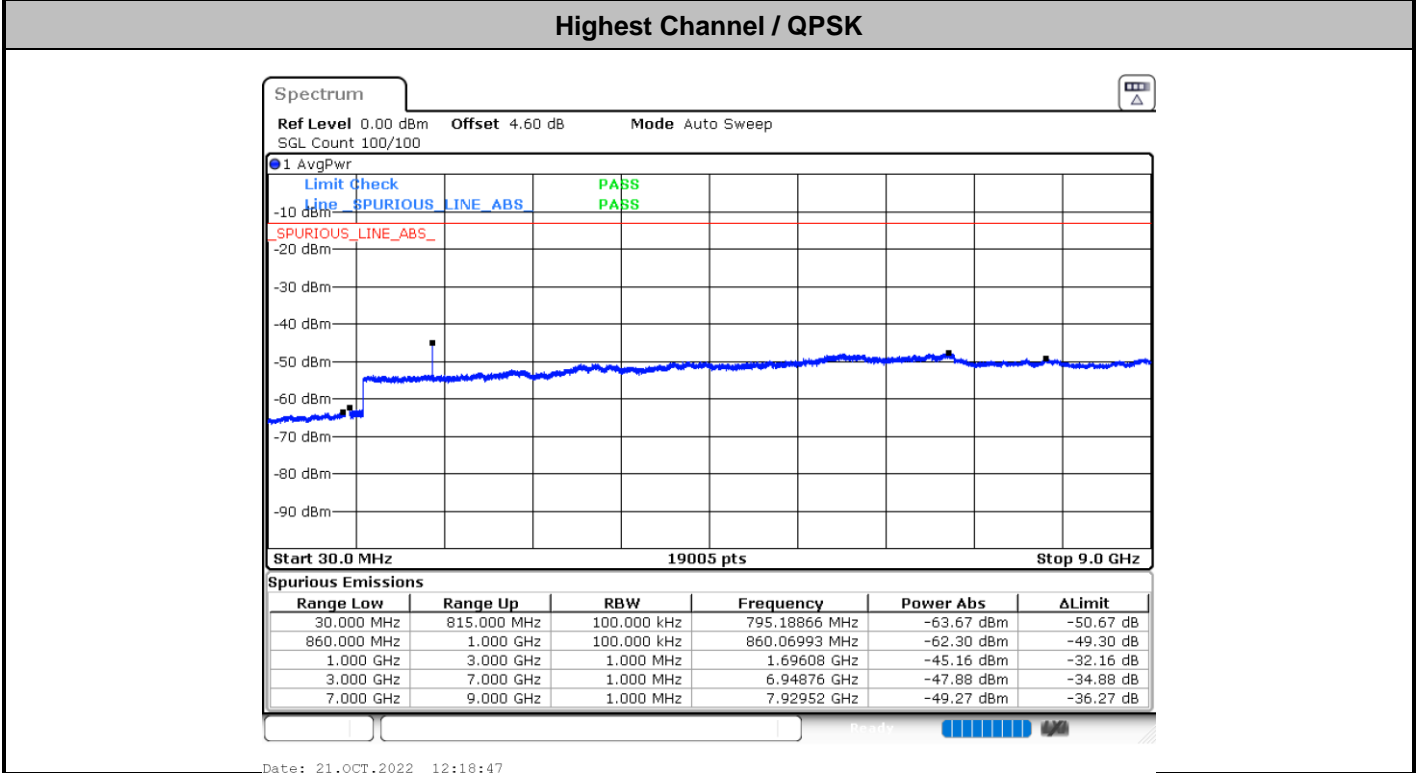
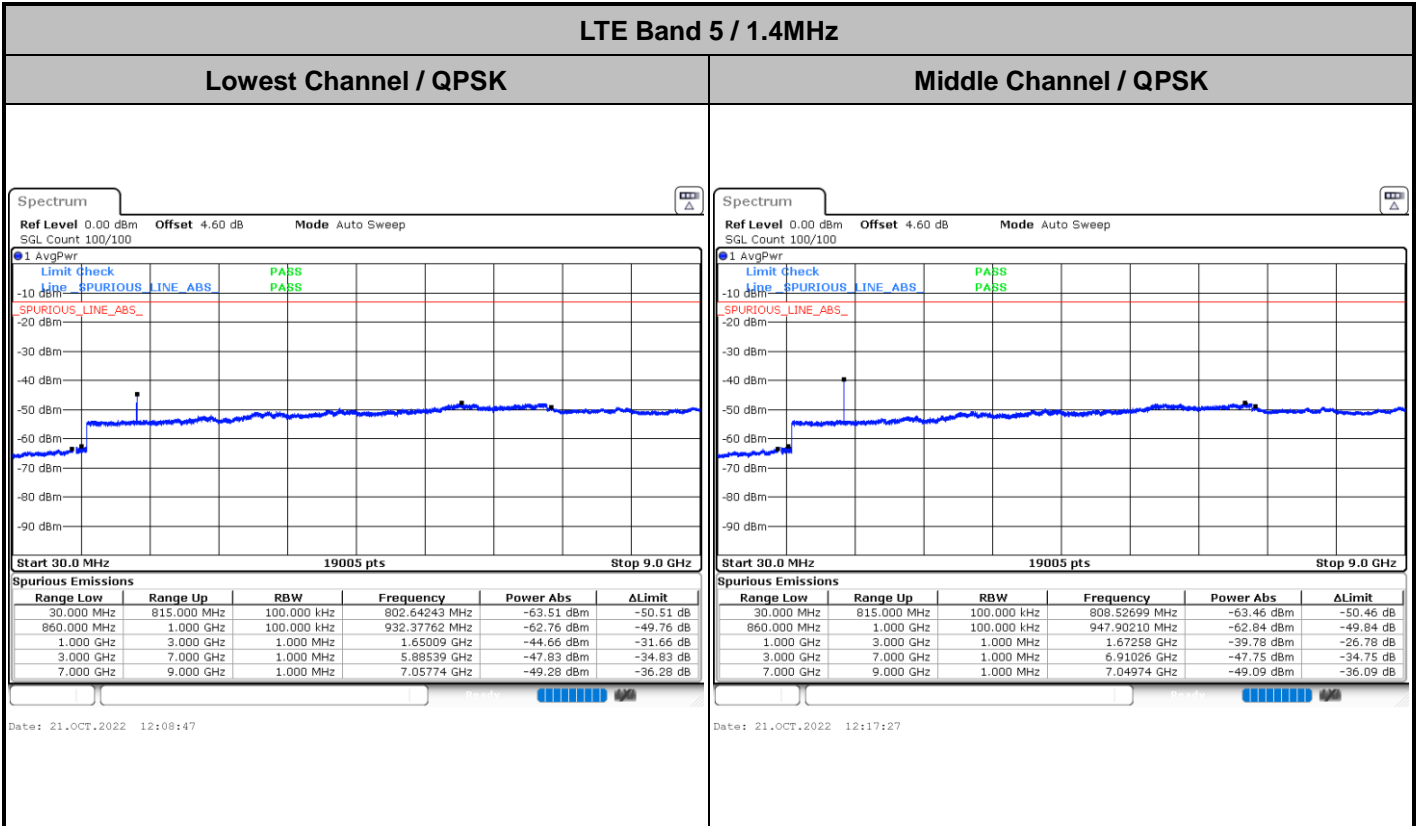


Highest Band Edge / Full RB





Conducted Spurious Emission

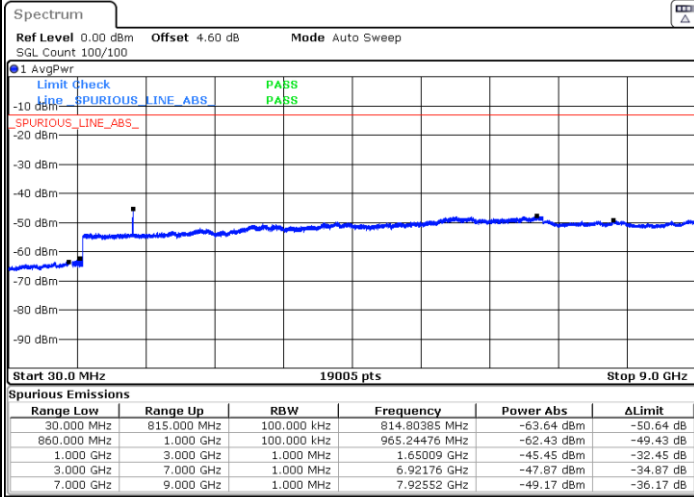




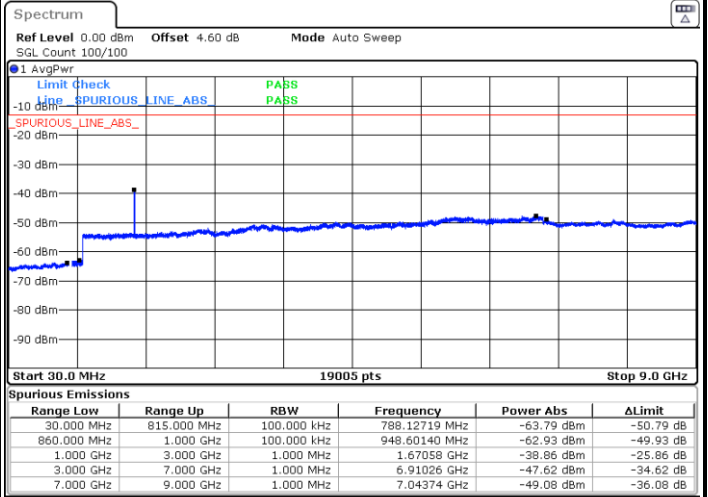
LTE Band 5 / 3MHz

Lowest Channel / QPSK

Middle Channel / QPSK

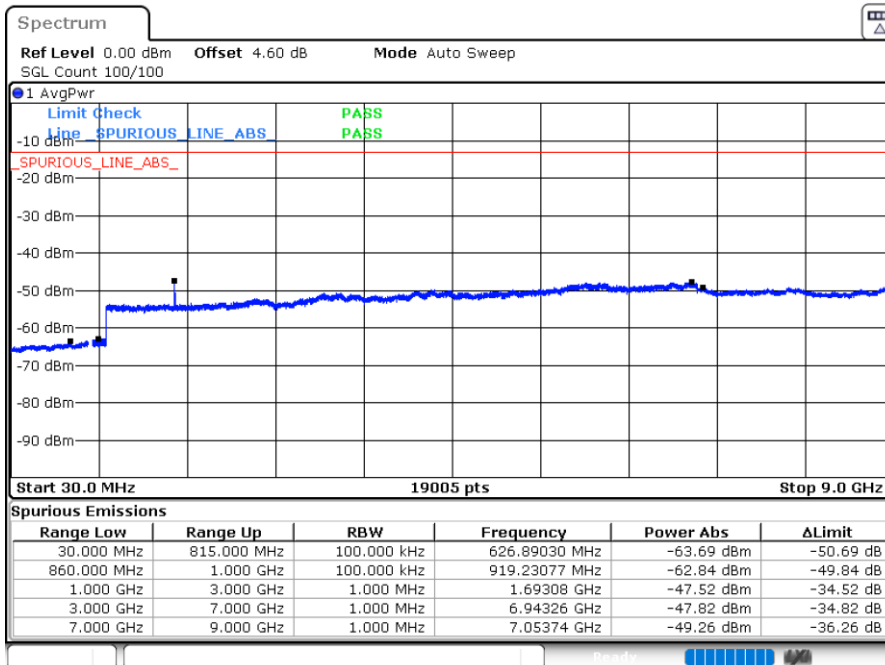


Date: 21.OCT.2022 12:27:28



Date: 21.OCT.2022 12:36:09

Highest Channel / QPSK



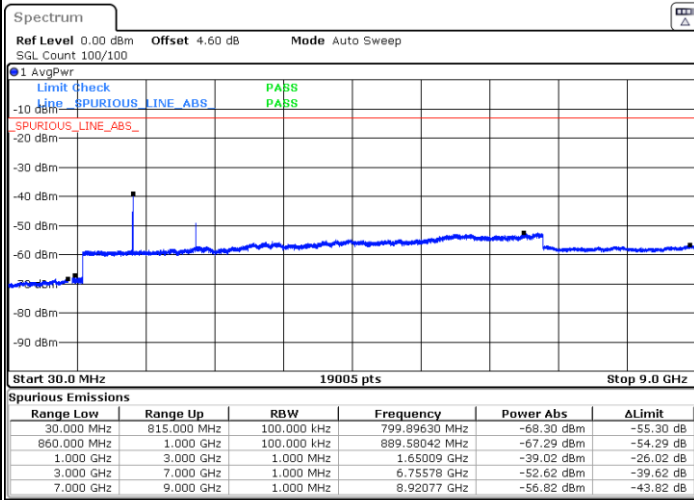
Date: 21.OCT.2022 12:37:28



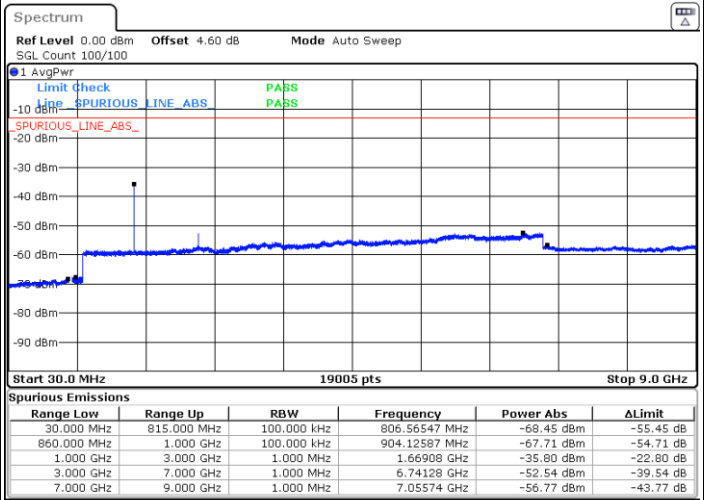
LTE Band 5 / 5MHz

Lowest Channel / QPSK

Middle Channel / QPSK

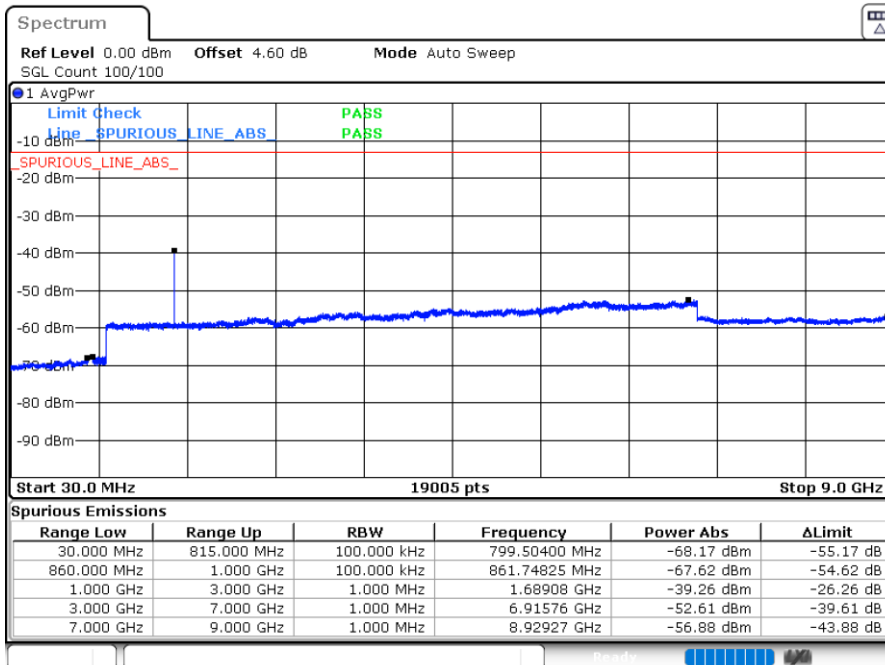


Date: 21.OCT.2022 12:46:10



Date: 21.OCT.2022 12:54:52

Highest Channel / QPSK



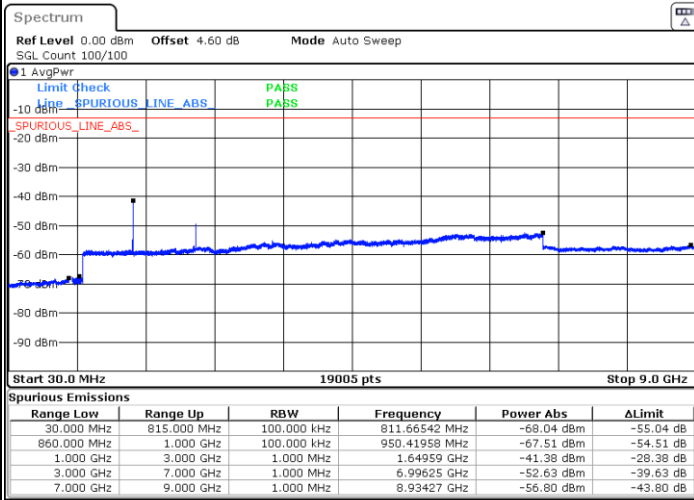
Date: 21.OCT.2022 12:56:12



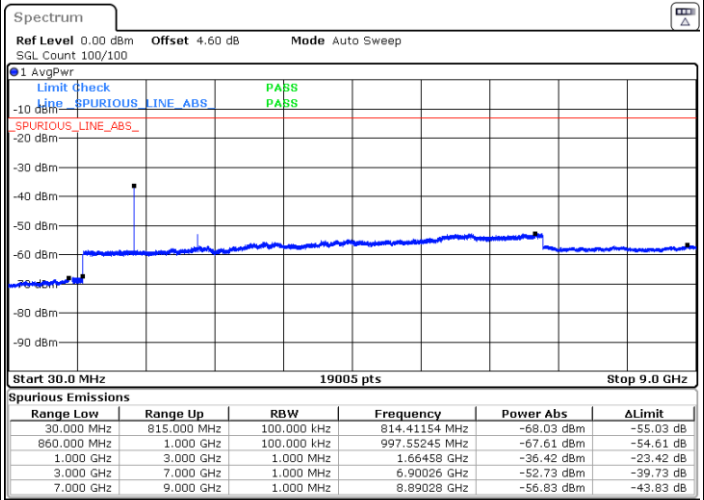
LTE Band 5 / 10MHz

Lowest Channel / QPSK

Middle Channel / QPSK

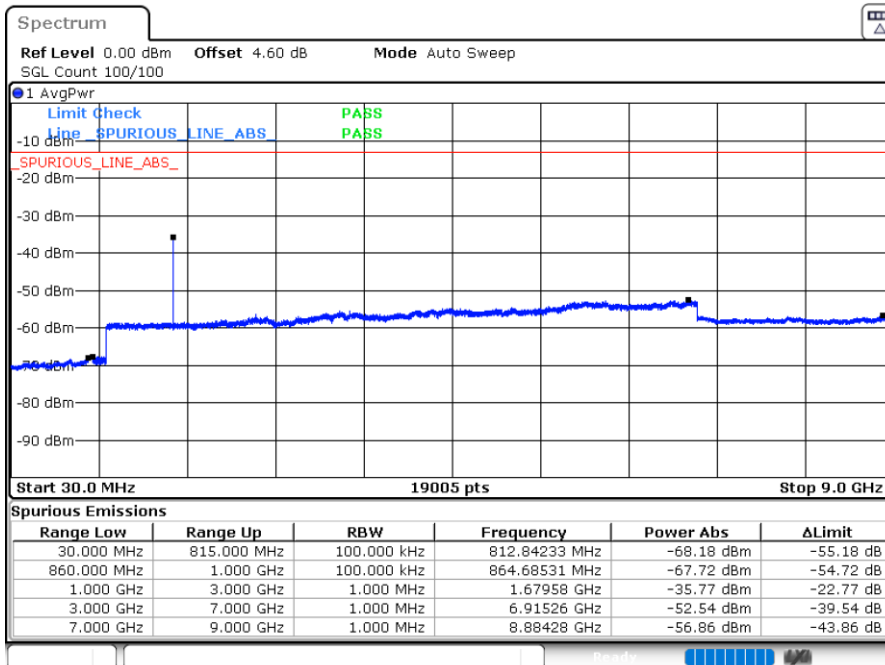


Date: 21.OCT.2022 13:04:55



Date: 21.OCT.2022 13:13:38

Highest Channel / QPSK



Date: 21.OCT.2022 13:14:58



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	0.0026	PASS
40	Normal Voltage	0.0031	
30	Normal Voltage	0.0042	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0012	
0	Normal Voltage	0.0027	
-10	Normal Voltage	0.0016	
-20	Normal Voltage	0.0008	
-30	Normal Voltage	0.0013	
20	Maximum Voltage	0.0005	
20	Normal Voltage	0.0019	
20	Minimum Voltage	0.0022	

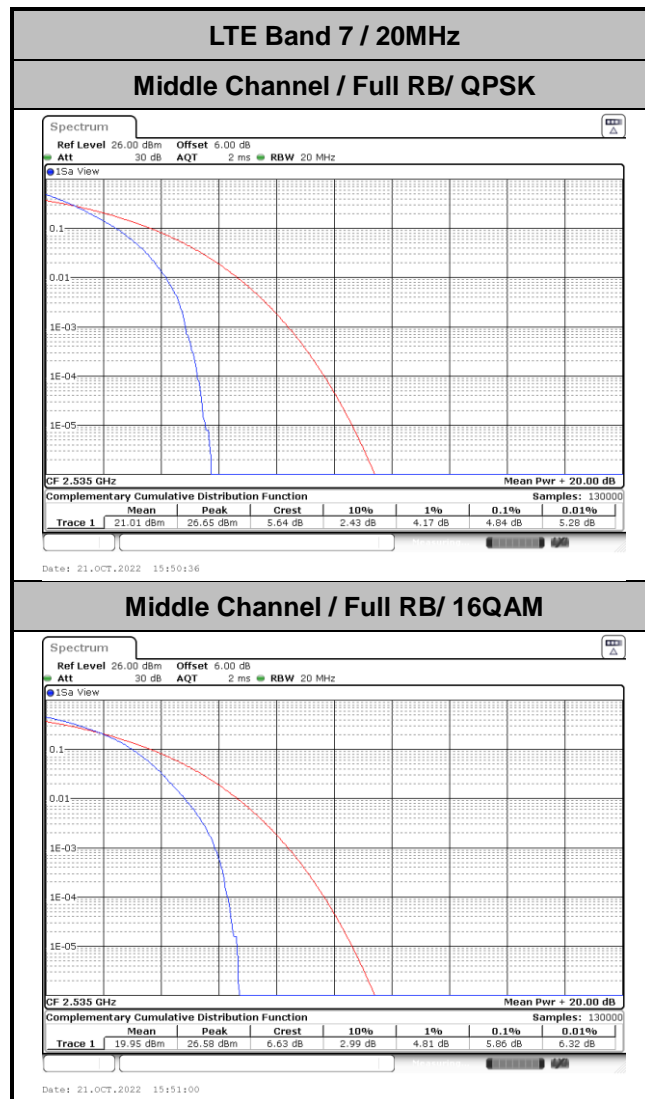
Note: Normal Voltage =12 V. ; Minimum Voltage =11.4 V. ; Maximum Voltage =12.6 V.



LTE Band 7

Peak-to-Average Ratio

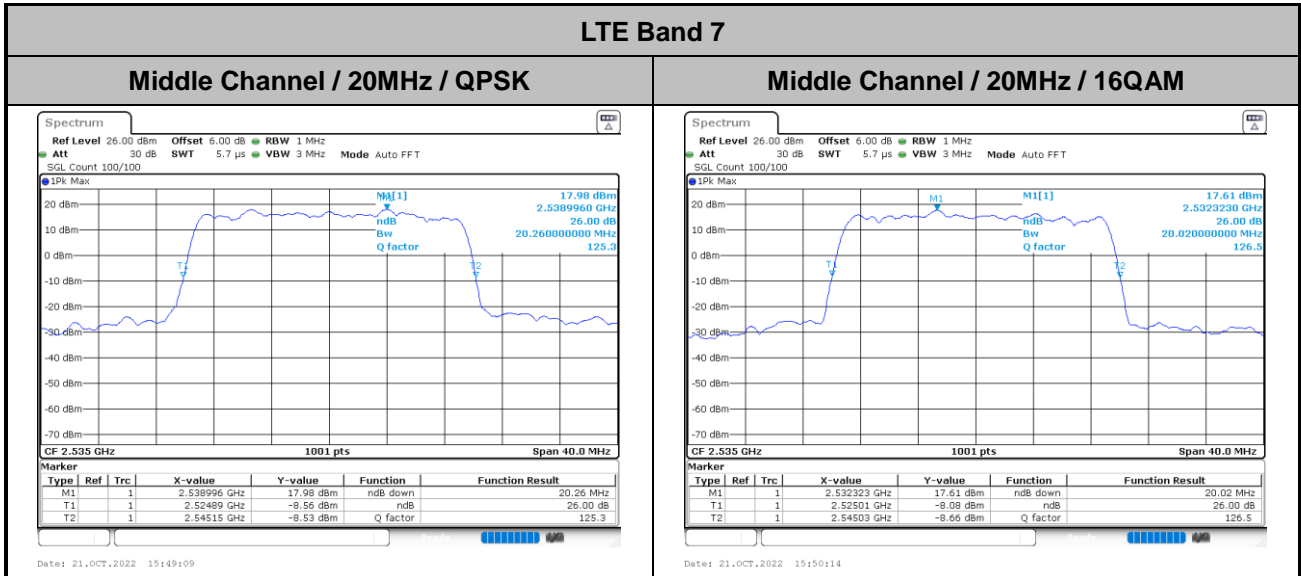
Mode	LTE Band 7 / 20MHz		
Mod.	QPSK	16QAM	Limit: 13dB
RB Size	Full RB	Full RB	Result
Middle CH	4.84	5.86	PASS





26dB Bandwidth

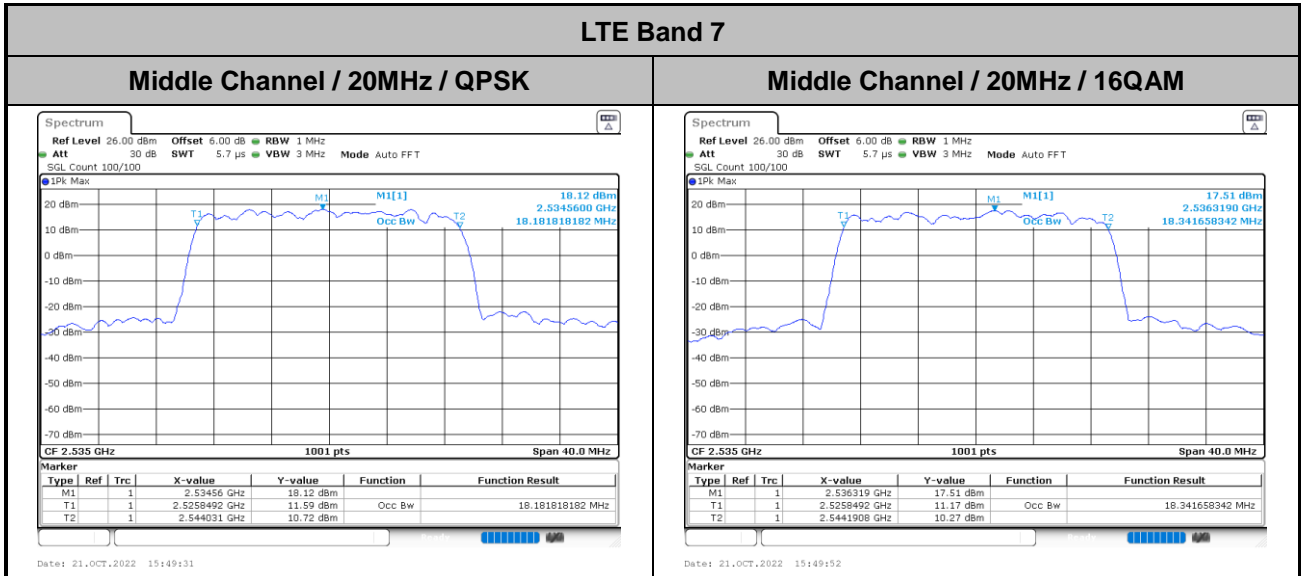
Mode	LTE Band 7 : 26dB BW(MHz)	
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	20.26	20.02





Occupied Bandwidth

Mode	LTE Band 7 : 99%OBW(MHz)	
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	18.18	18.34

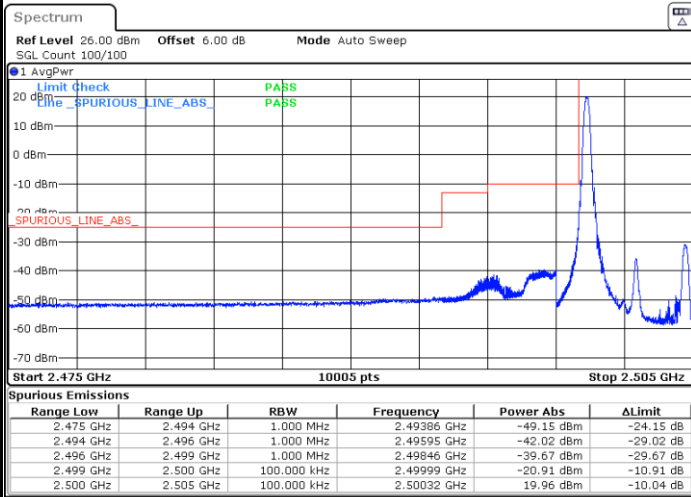




Conducted Band Edge

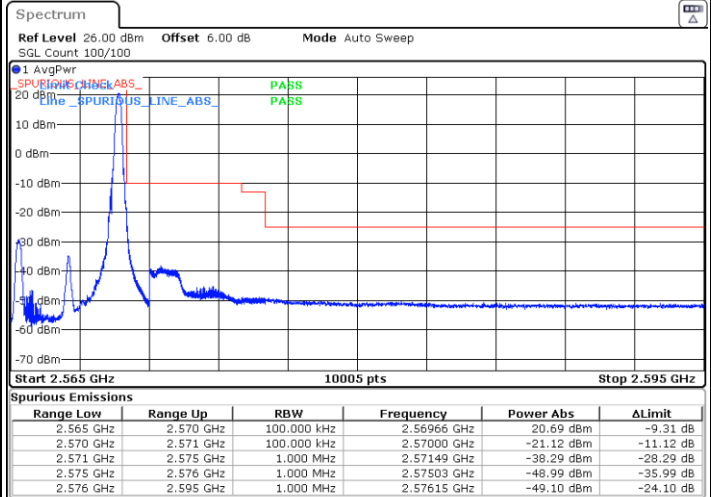
LTE Band 7 / 5MHz / QPSK

Lowest Band Edge / 1 RB



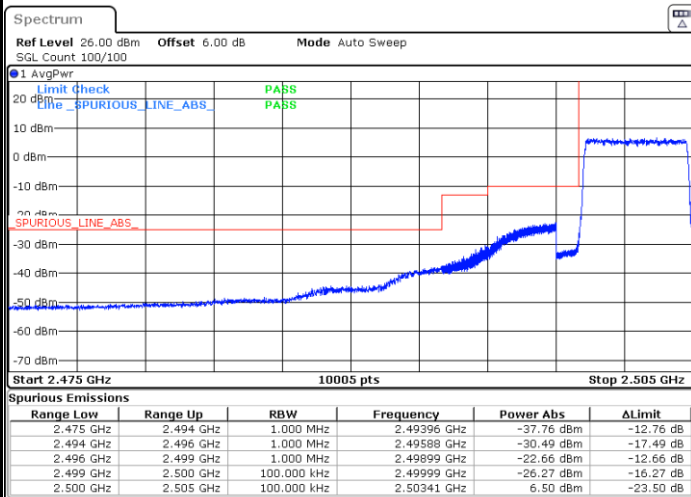
Date: 21.OCT.2022 14:52:10

Highest Band Edge / 1 RB



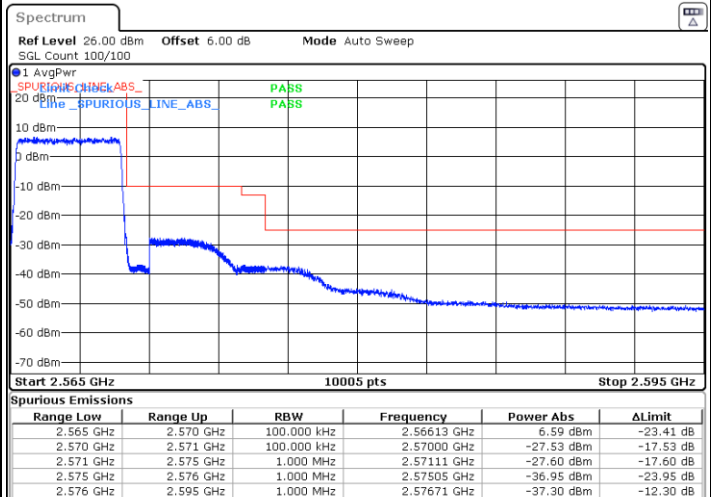
Date: 21.OCT.2022 15:00:30

Lowest Band Edge / Full RB



Date: 21.OCT.2022 14:56:32

Highest Band Edge / Full RB

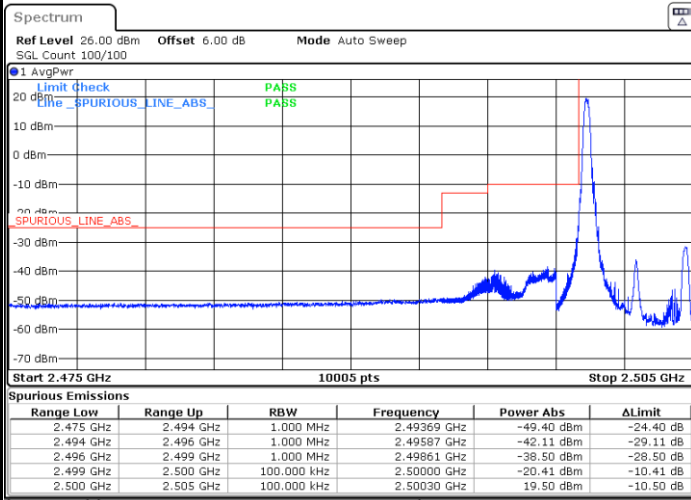


Date: 21.OCT.2022 15:04:32



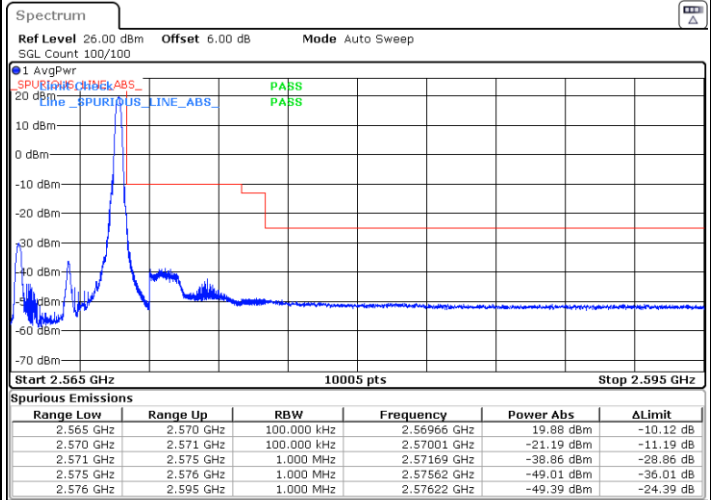
LTE Band 7 / 5MHz / 16QAM

Lowest Band Edge / 1RB



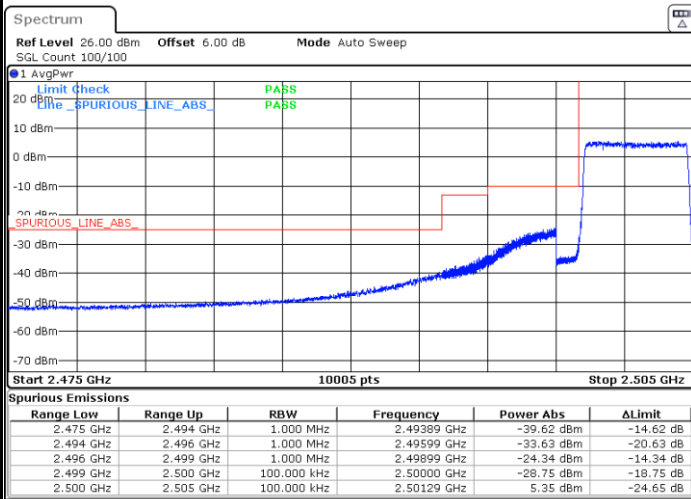
Date: 21.OCT.2022 14:53:50

Highest Band Edge / 1 RB



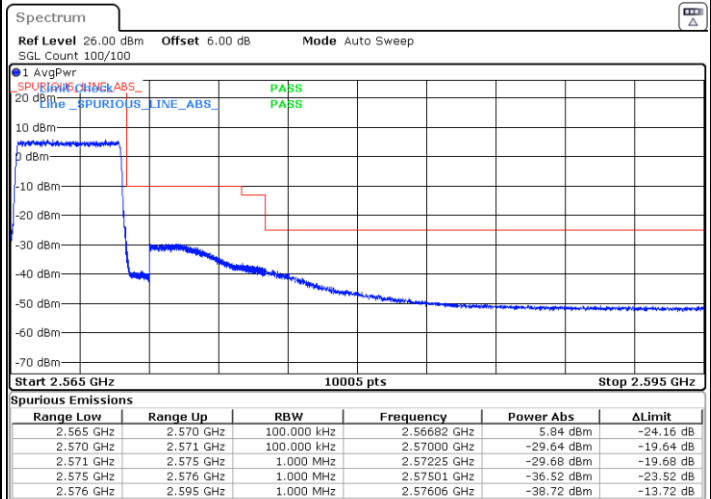
Date: 21.OCT.2022 15:01:51

Lowest Band Edge / Full RB



Date: 21.OCT.2022 14:55:11

Highest Band Edge / Full RB

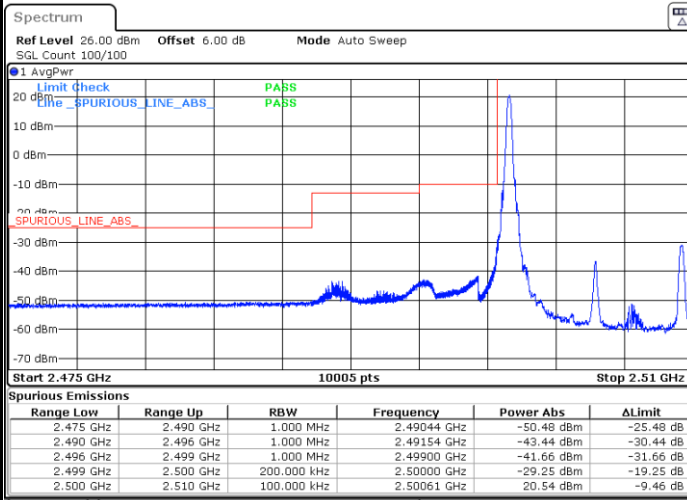


Date: 21.OCT.2022 15:03:12



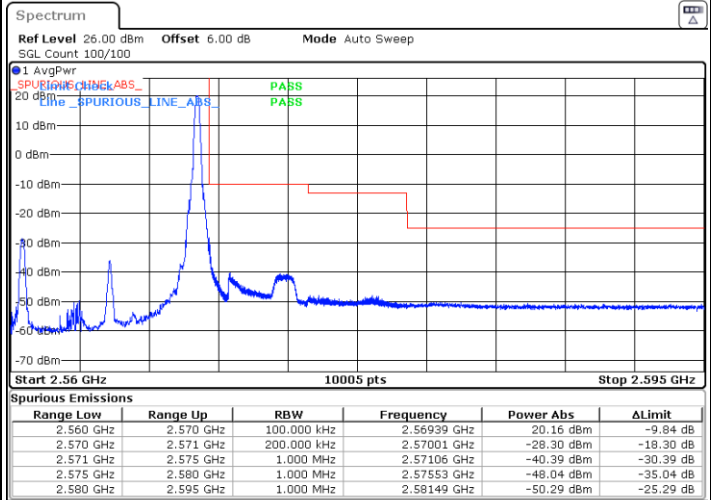
LTE Band 7 / 10MHz / QPSK

Lowest Band Edge / 1 RB



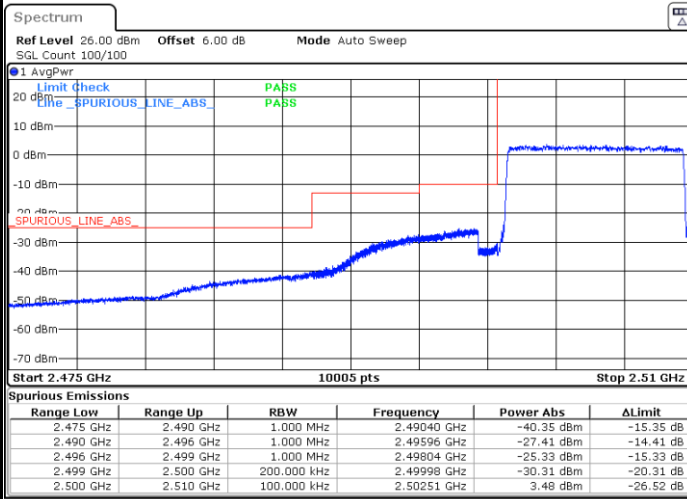
Date: 21.OCT.2022 15:07:13

Highest Band Edge / 1 RB



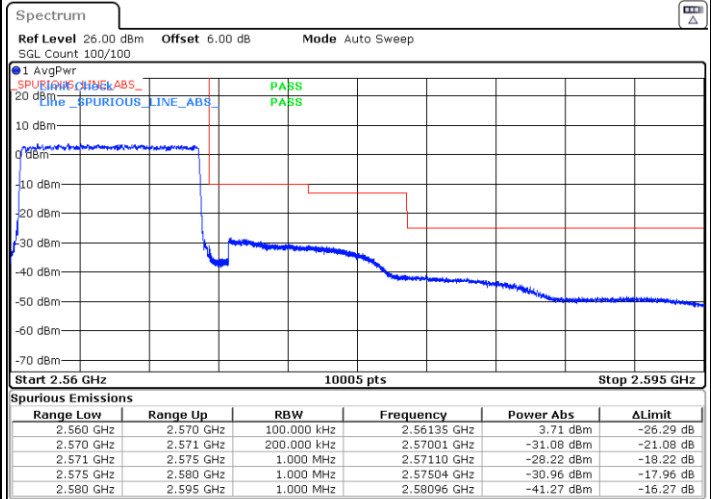
Date: 21.OCT.2022 15:15:15

Lowest Band Edge / Full RB



Date: 21.OCT.2022 15:11:15

Highest Band Edge / Full RB



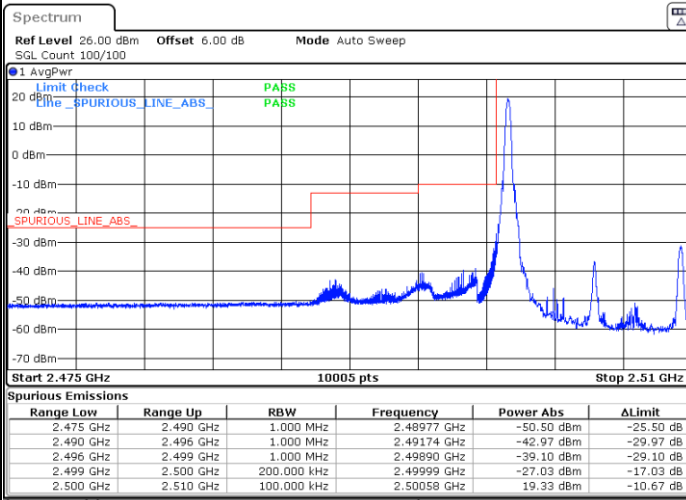
Date: 21.OCT.2022 15:19:17



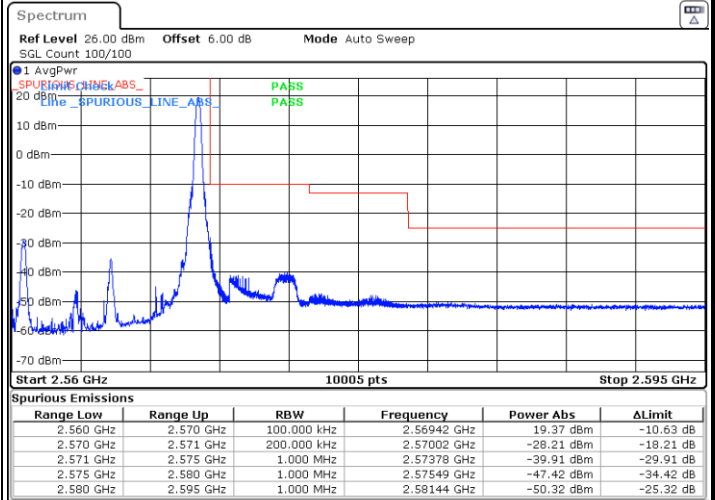
LTE Band 7 / 10MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



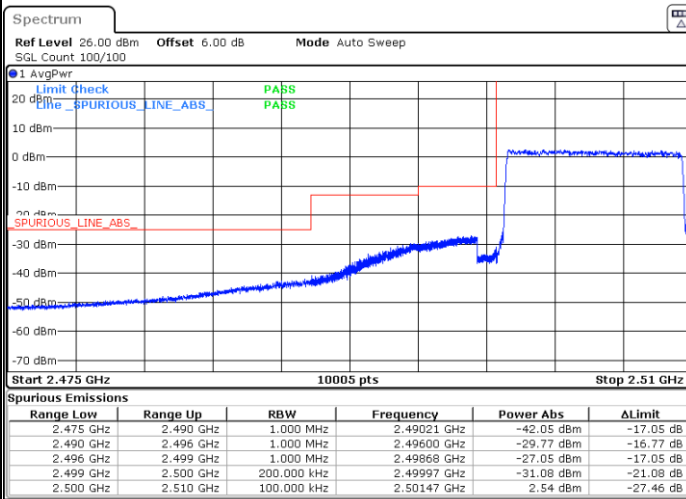
Date: 21.OCT.2022 15:08:34



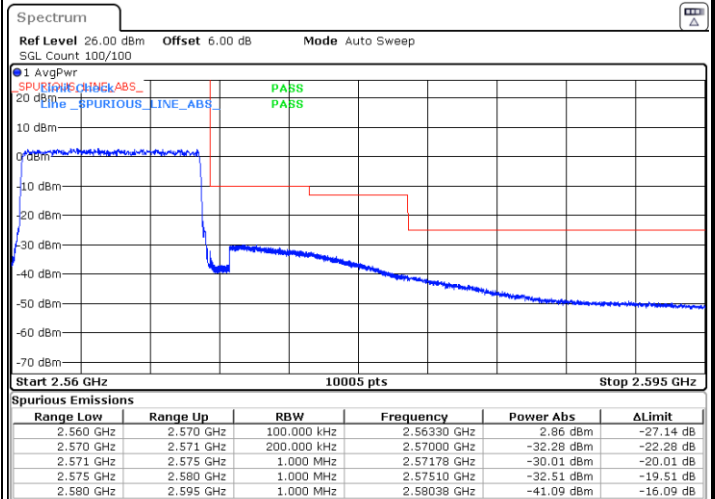
Date: 21.OCT.2022 15:16:36

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 21.OCT.2022 15:09:54

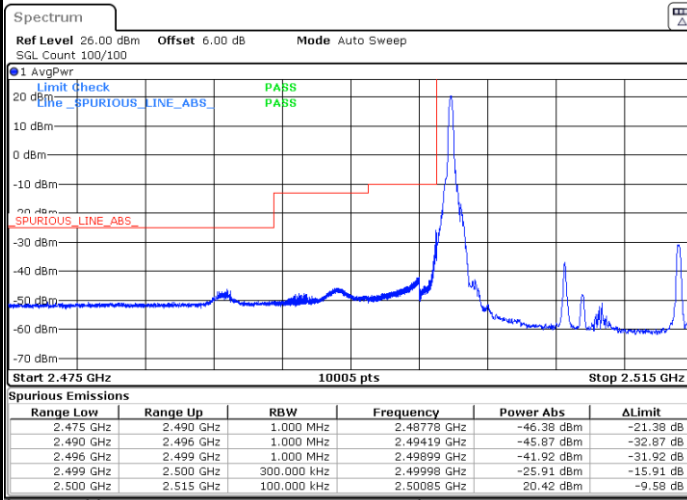


Date: 21.OCT.2022 15:17:56



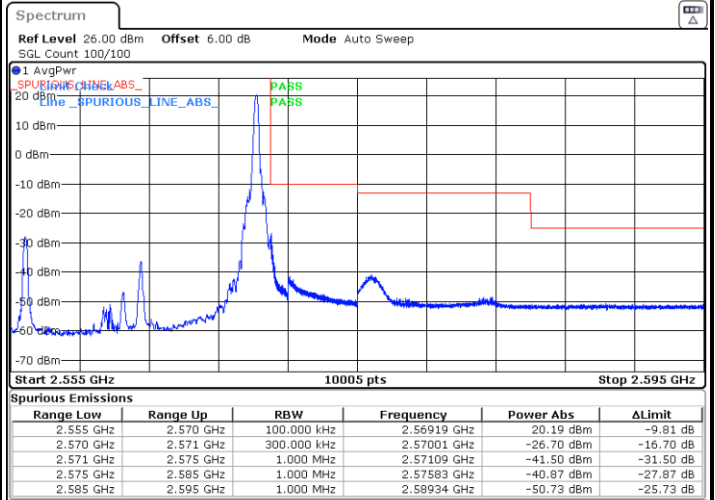
LTE Band 7 / 15MHz / QPSK

Lowest Band Edge / 1 RB



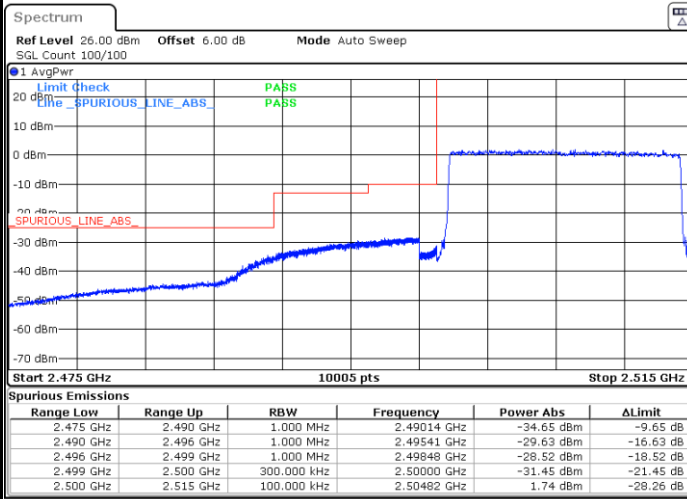
Date: 21.OCT.2022 15:21:58

Highest Band Edge / 1 RB



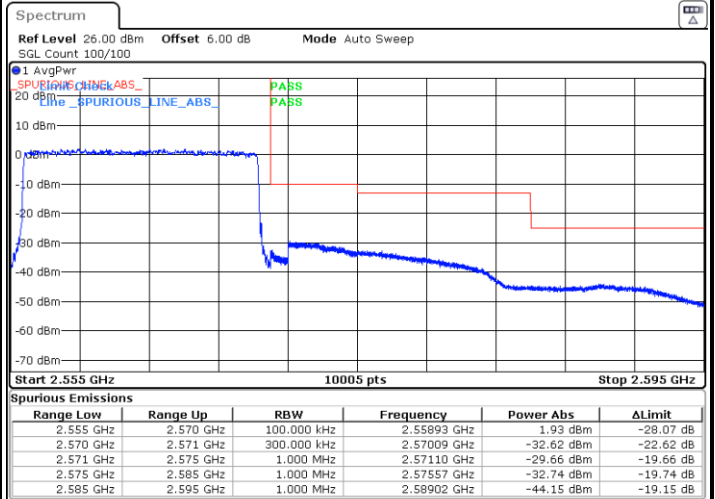
Date: 21.OCT.2022 15:29:59

Lowest Band Edge / Full RB



Date: 21.OCT.2022 15:26:00

Highest Band Edge / Full RB

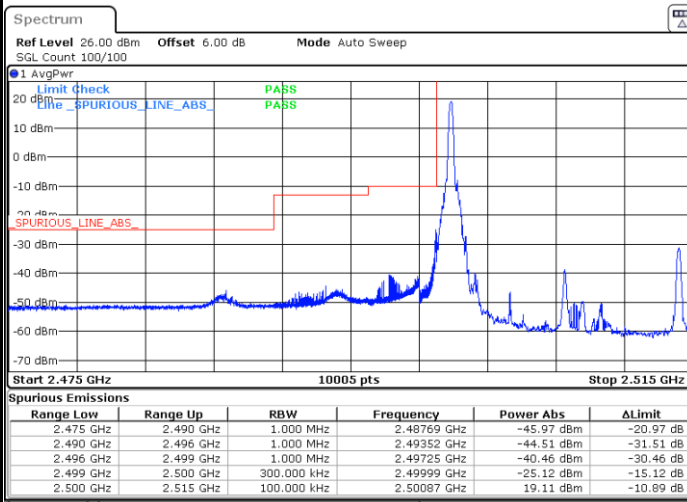


Date: 21.OCT.2022 15:34:03



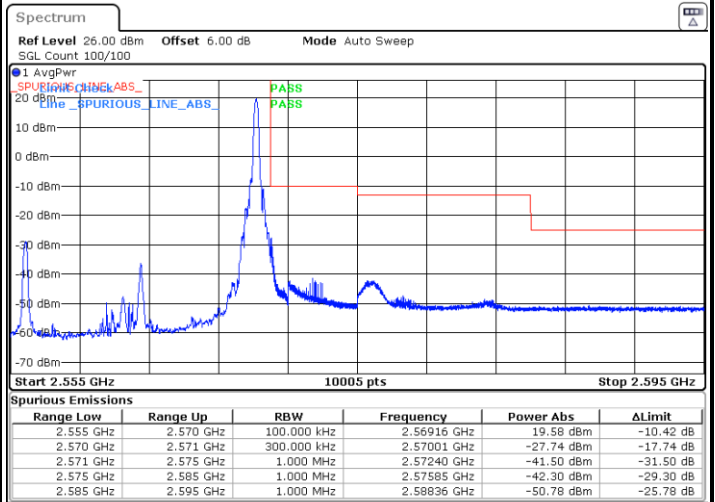
LTE Band 7 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



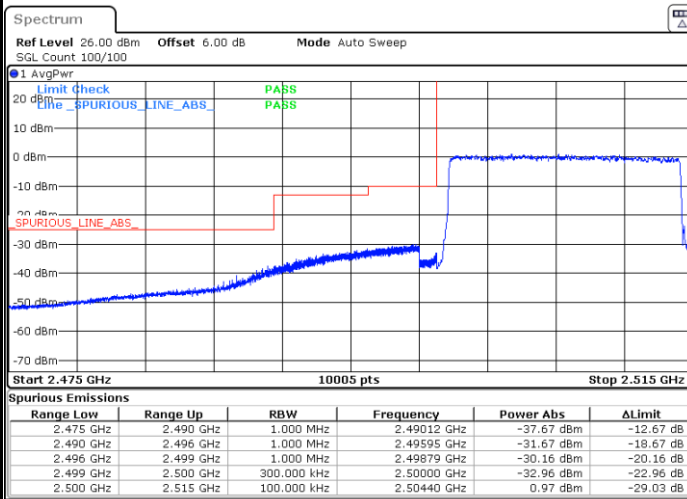
Date: 21.OCT.2022 15:23:19

Highest Band Edge / 1 RB



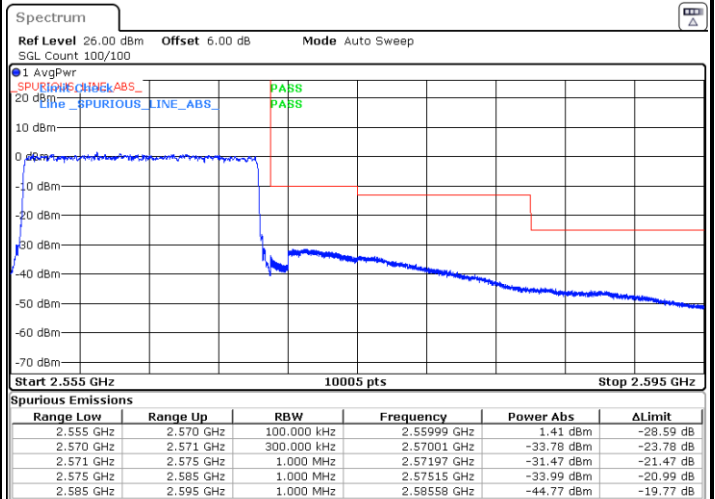
Date: 21.OCT.2022 15:31:21

Lowest Band Edge / Full RB



Date: 21.OCT.2022 15:24:39

Highest Band Edge / Full RB

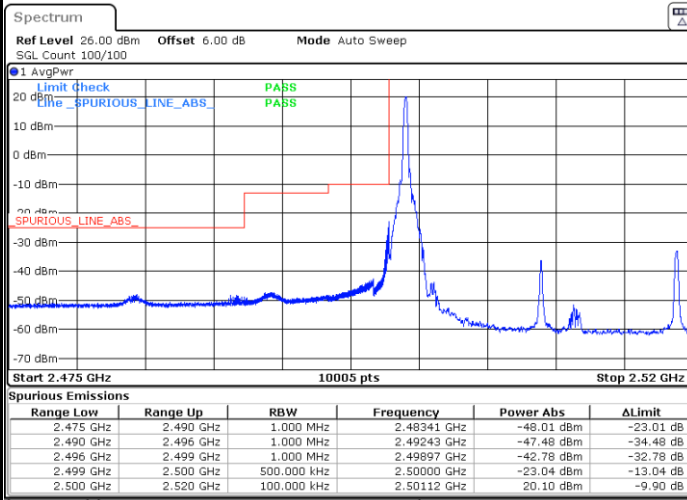


Date: 21.OCT.2022 15:32:42



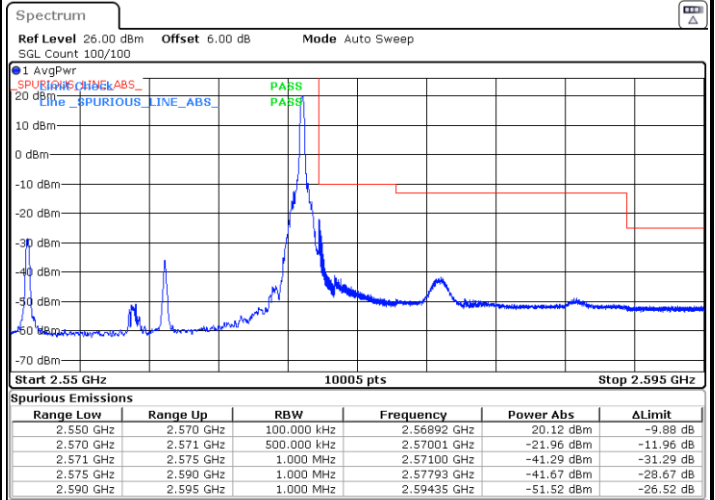
LTE Band 7 / 20MHz / QPSK

Lowest Band Edge / 1 RB



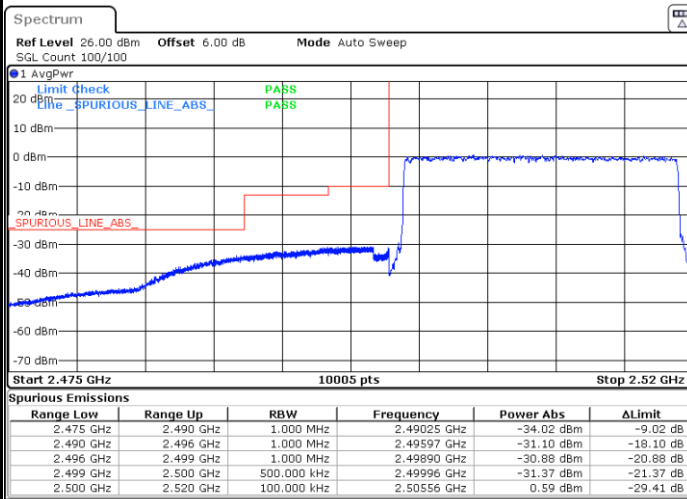
Date: 21.OCT.2022 15:36:43

Highest Band Edge / 1 RB



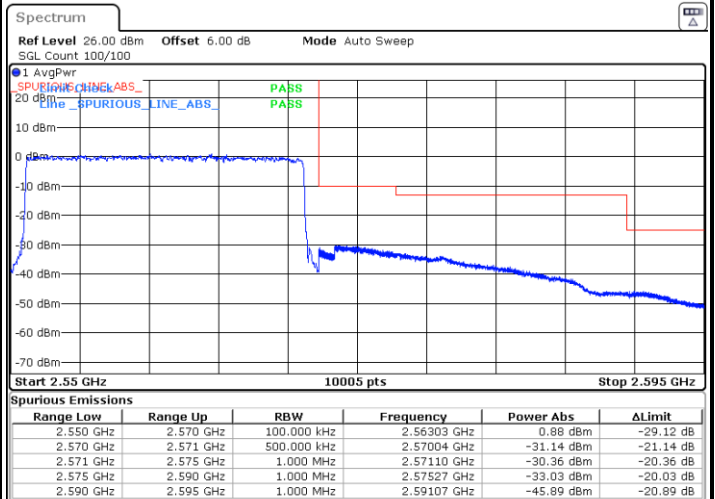
Date: 21.OCT.2022 15:44:45

Lowest Band Edge / Full RB



Date: 21.OCT.2022 15:40:45

Highest Band Edge / Full RB

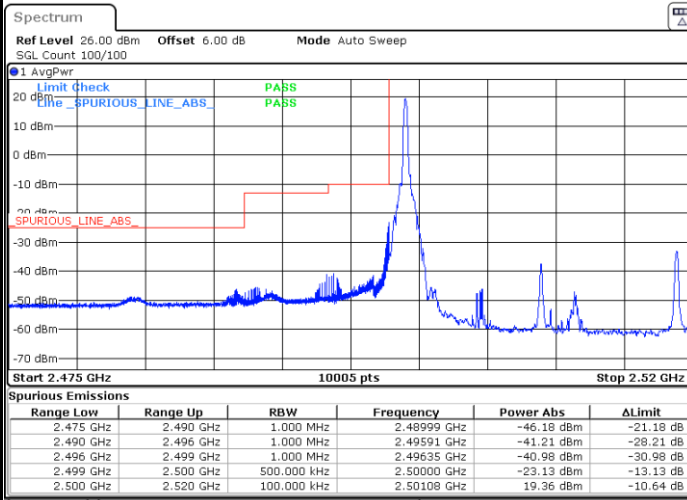


Date: 21.OCT.2022 15:48:47



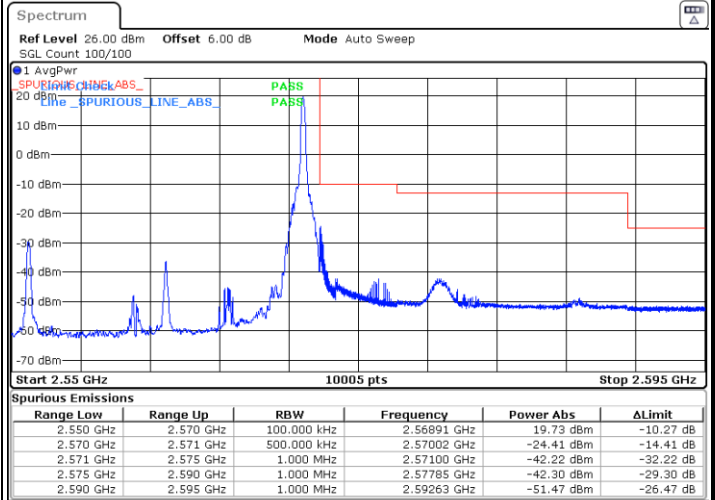
LTE Band 7 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



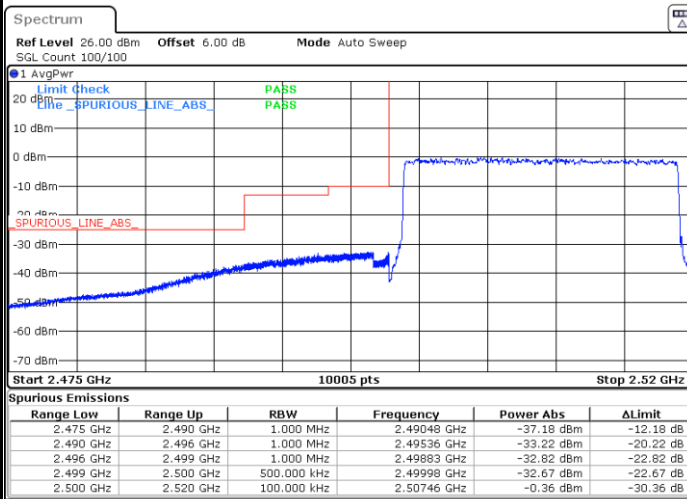
Date: 21.OCT.2022 15:38:04

Highest Band Edge / 1 RB



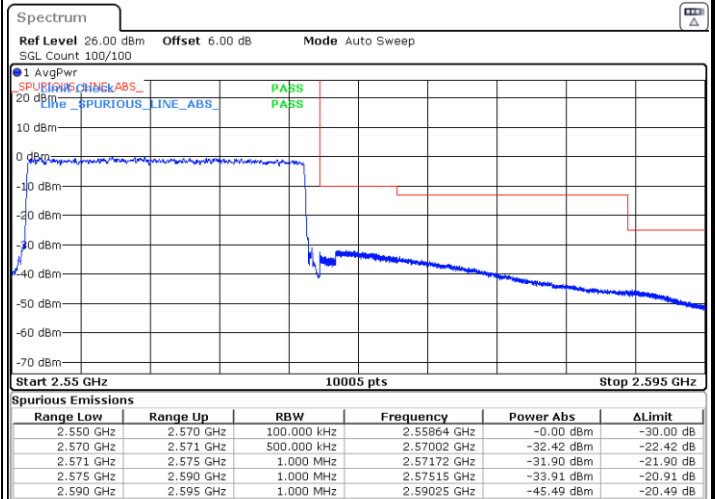
Date: 21.OCT.2022 15:46:05

Lowest Band Edge / Full RB



Date: 21.OCT.2022 15:39:25

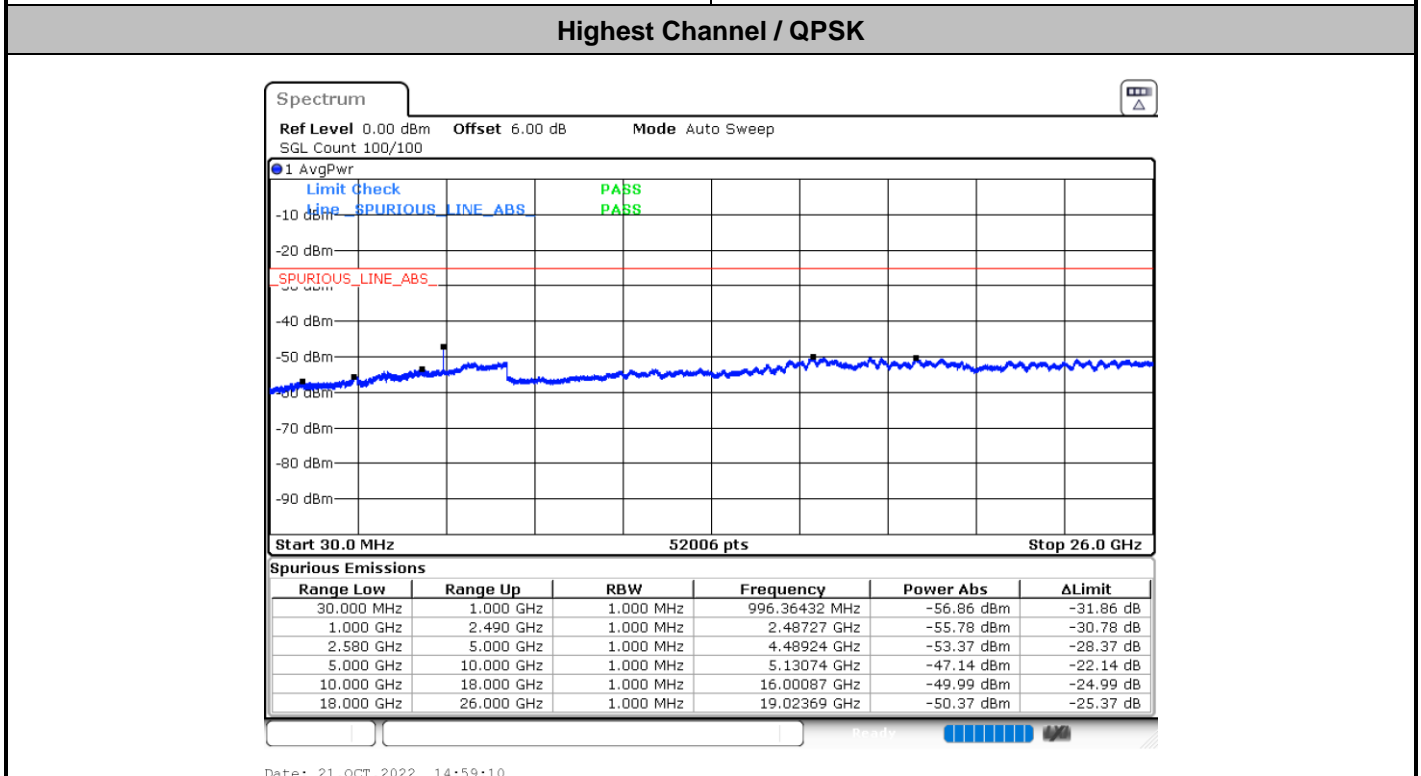
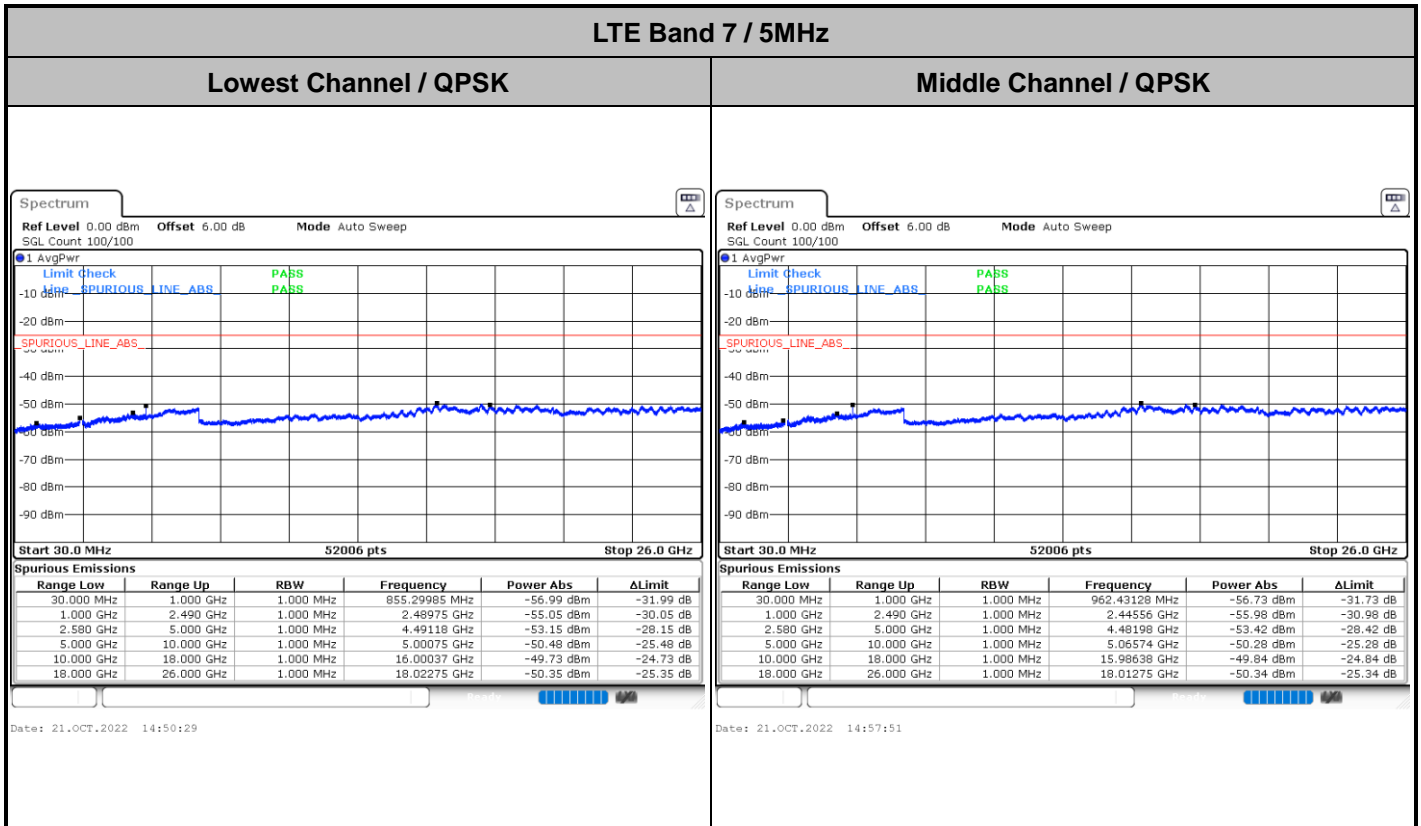
Highest Band Edge / Full RB



Date: 21.OCT.2022 15:47:26



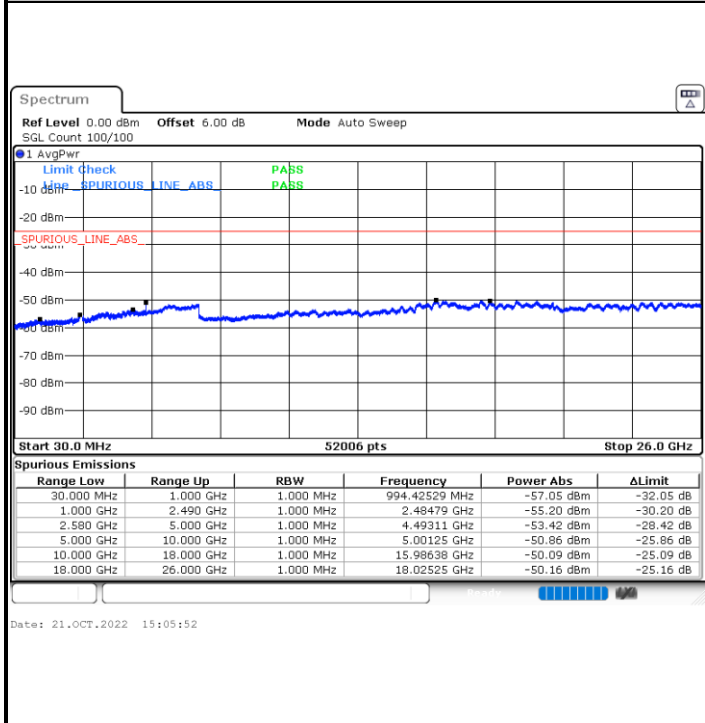
Conducted Spurious Emission



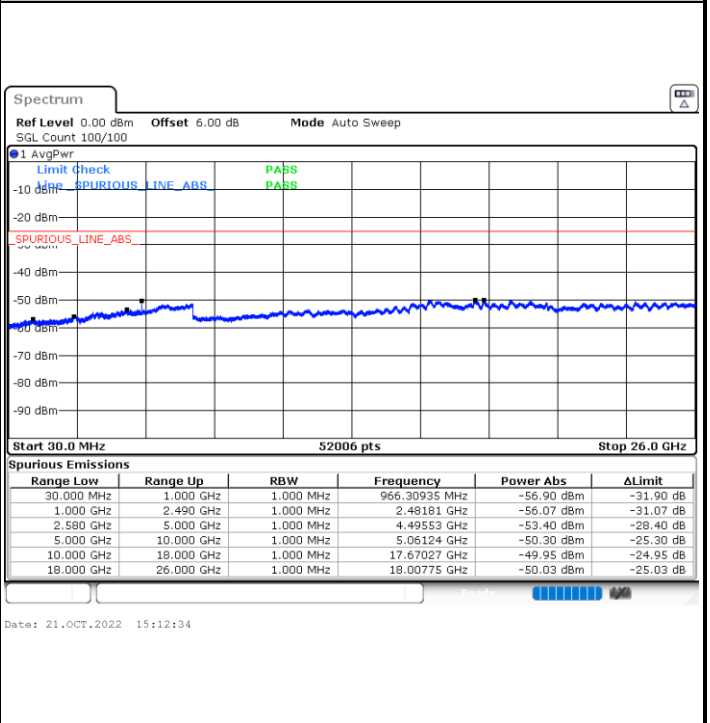


LTE Band 7 / 10MHz

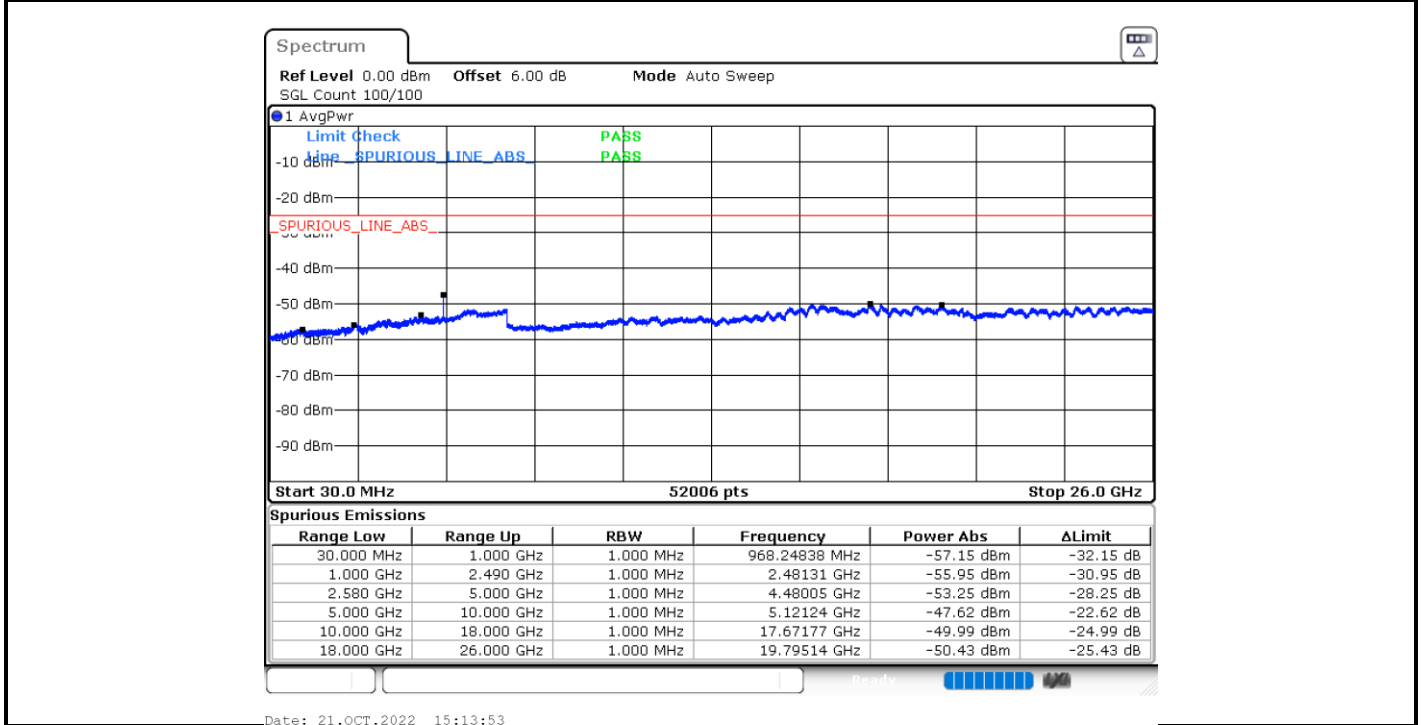
Lowest Channel / QPSK



Middle Channel / QPSK



Highest Channel / QPSK

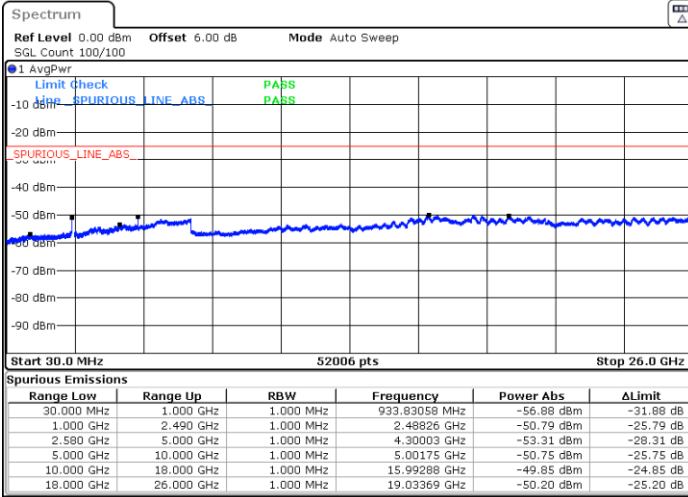




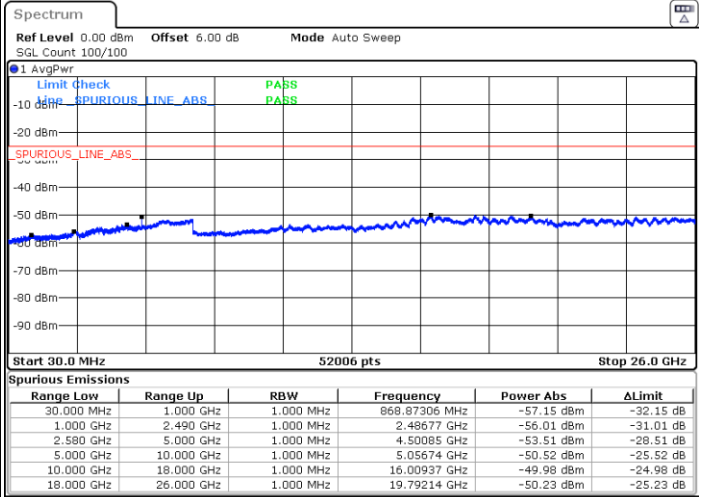
LTE Band 7 / 15MHz

Lowest Channel / QPSK

Middle Channel / QPSK

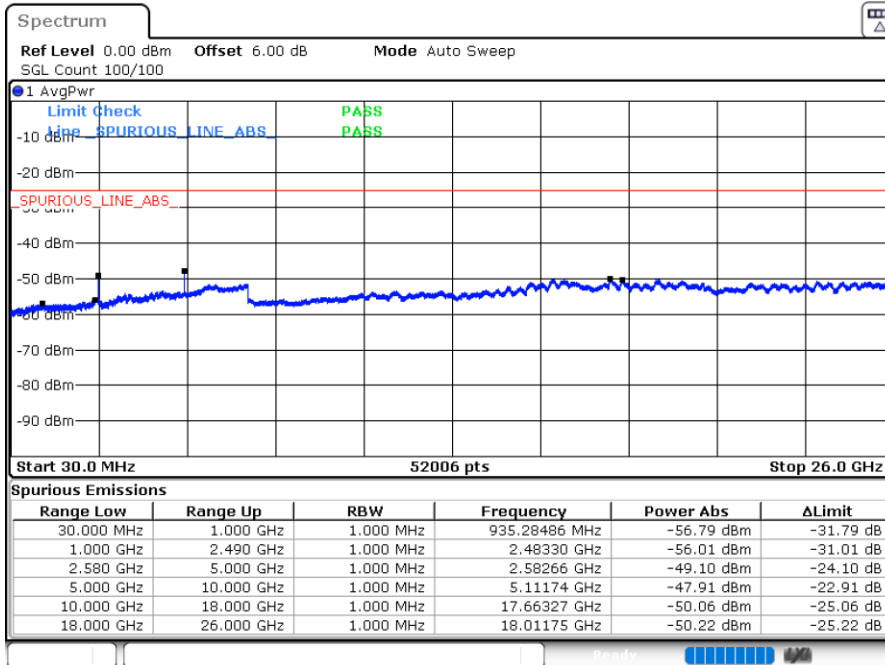


Date: 21.OCT.2022 15:20:37



Date: 21.OCT.2022 15:27:19

Highest Channel / QPSK



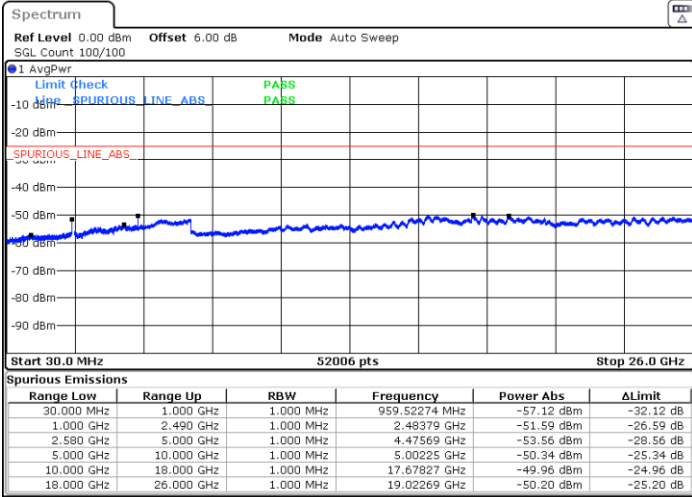
Date: 21.OCT.2022 15:28:39



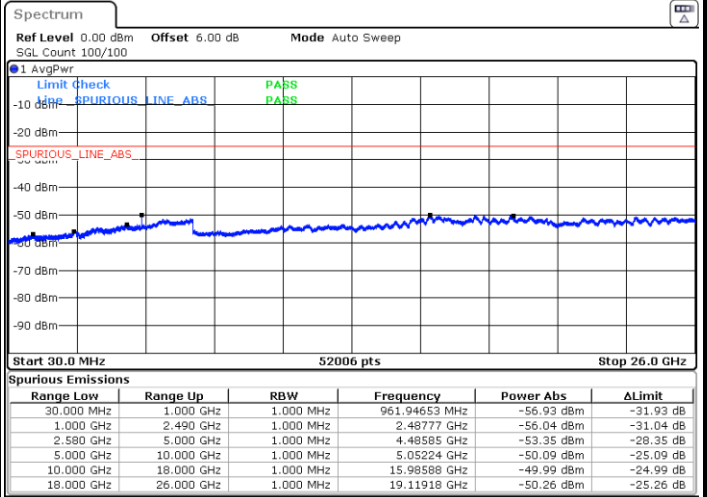
LTE Band 7 / 20MHz

Lowest Channel / QPSK

Middle Channel / QPSK

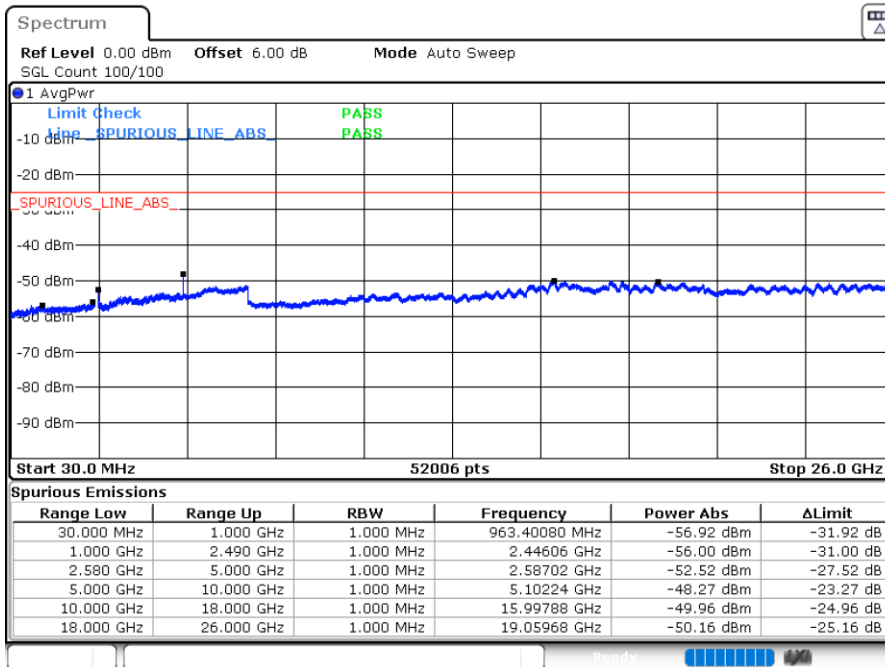


Date: 21.OCT.2022 15:35:23



Date: 21.OCT.2022 15:42:04

Highest Channel / QPSK



Date: 21.OCT.2022 15:43:24



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	0.0025	
30	Normal Voltage	0.0023	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0021	
0	Normal Voltage	0.0018	
-10	Normal Voltage	0.0013	
-20	Normal Voltage	0.0006	
-30	Normal Voltage	0.0022	
20	Maximum Voltage	0.0017	
20	Normal Voltage	0.0028	
20	Minimum Voltage	0.0032	

Note:

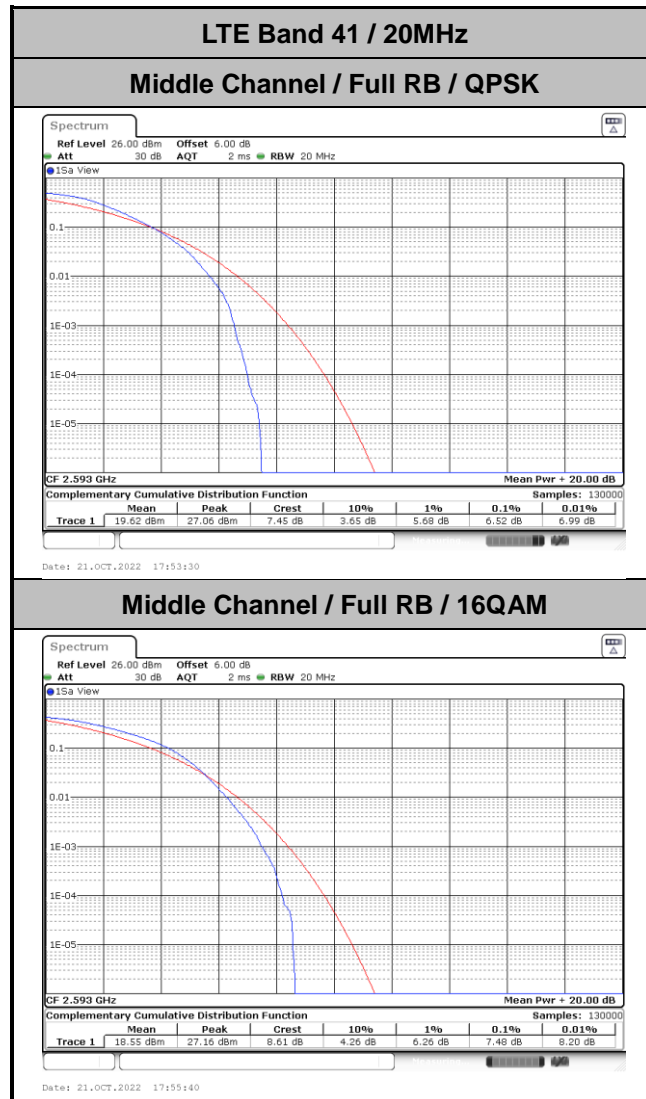
1. Normal Voltage =12 V. ; Minimum Voltage =11.4 V. ; Maximum Voltage =12.6V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 41

Peak-to-Average Ratio

Mode	LTE Band 41 / 20MHz		
Mod.	QPSK	16QAM	Limit: 13dB
RB Size	Full RB	Full RB	Result
Middle CH	6.52	7.48	PASS





26dB Bandwidth

Mode	LTE Band 41 : 26dB BW(MHz)	
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	20.22	20.06

