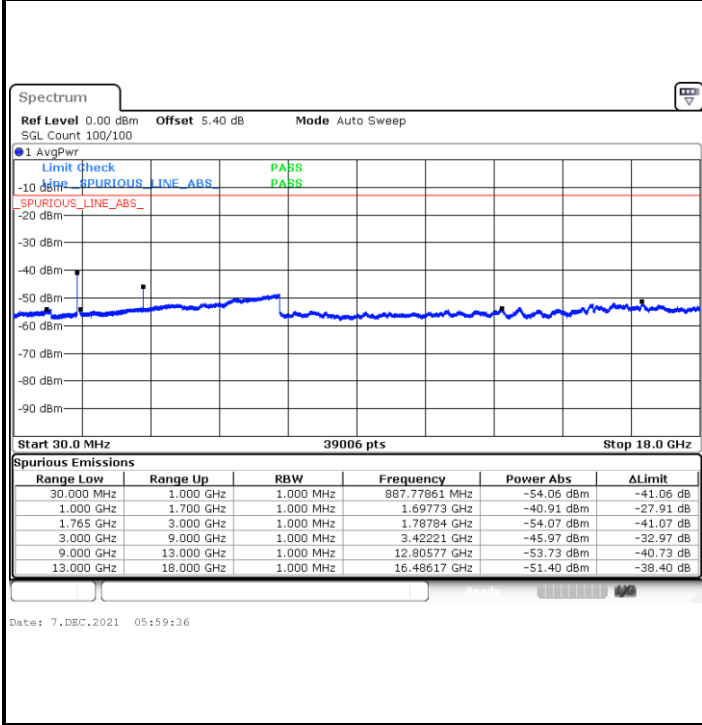


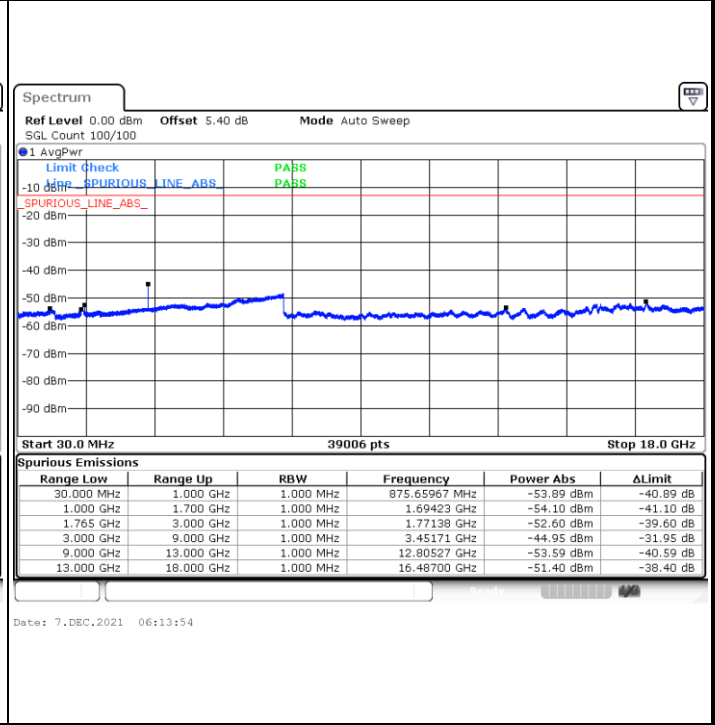


LTE Band 4 / 15MHz

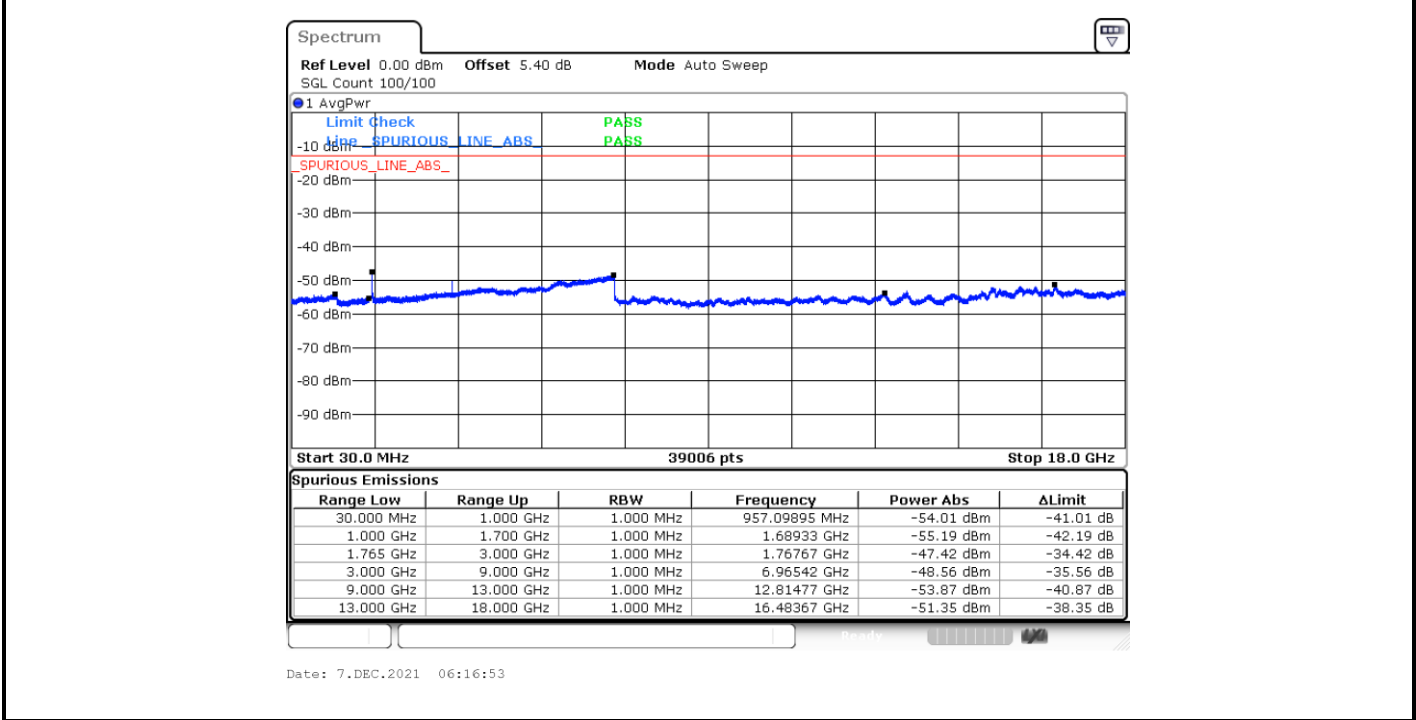
Lowest Channel / QPSK



Middle Channel / QPSK



Highest Channel / QPSK

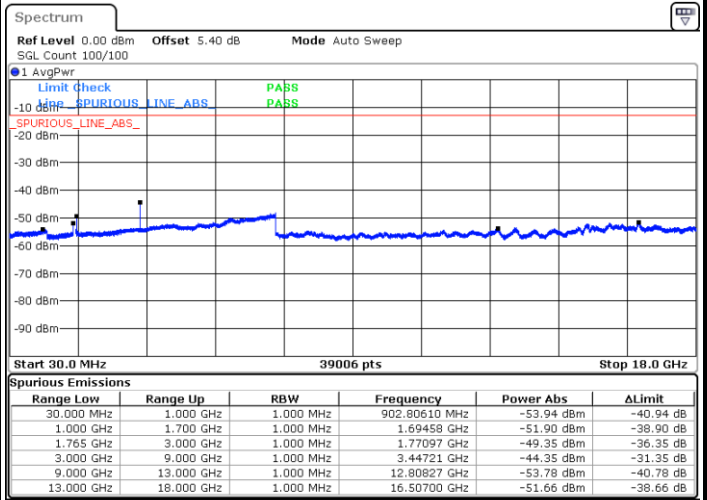
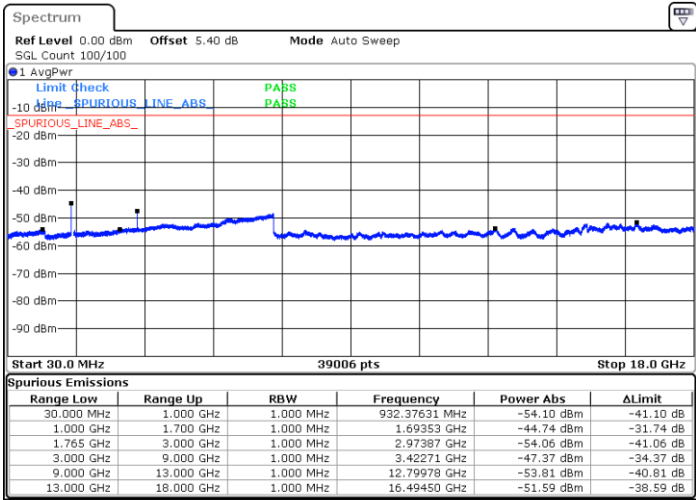




LTE Band 4 / 20MHz

Lowest Channel / QPSK

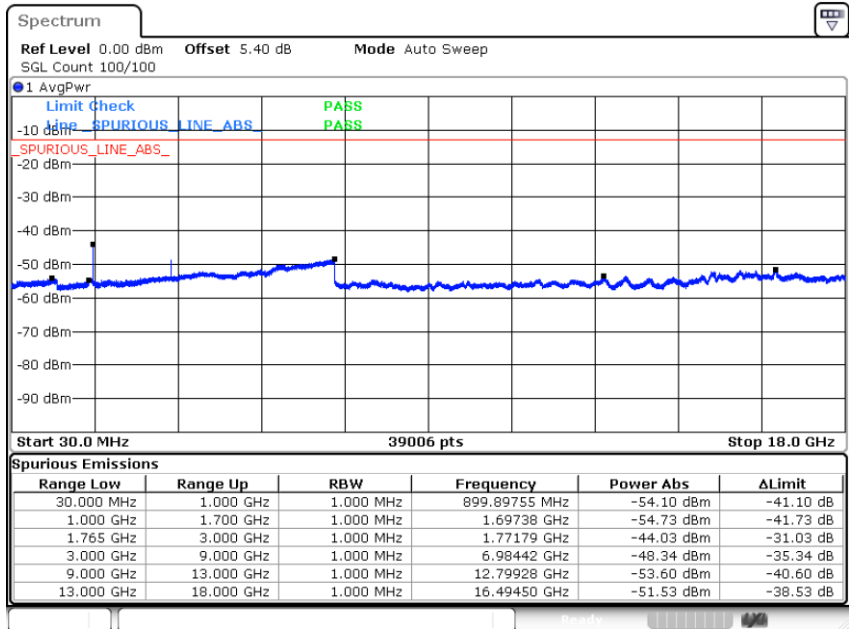
Middle Channel / QPSK



Date: 7.DEC.2021 06:31:22

Date: 7.DEC.2021 06:45:45

Highest Channel / QPSK



Date: 7.DEC.2021 06:48:43



Frequency Stability

Test Conditions		LTE Band 4 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0026	PASS
40	Normal Voltage	0.0015	
30	Normal Voltage	0.0008	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0006	
0	Normal Voltage	0.0003	
-10	Normal Voltage	0.0009	
-20	Normal Voltage	0.0012	
-30	Normal Voltage	0.0015	
20	Maximum Voltage	0.0018	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0005	

Note:

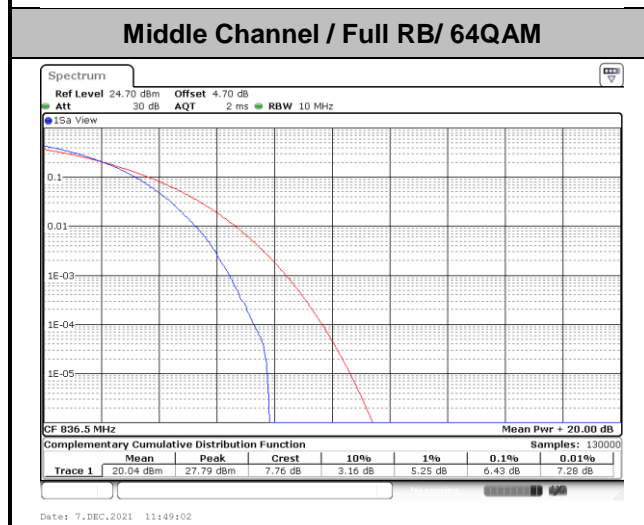
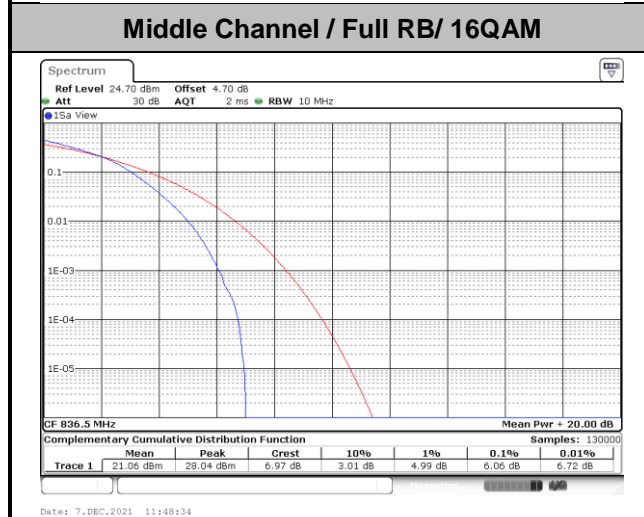
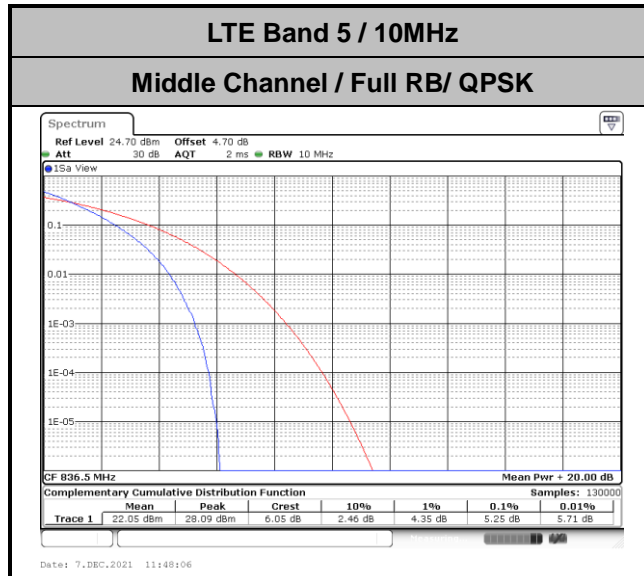
1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.2 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 5

Peak-to-Average Ratio

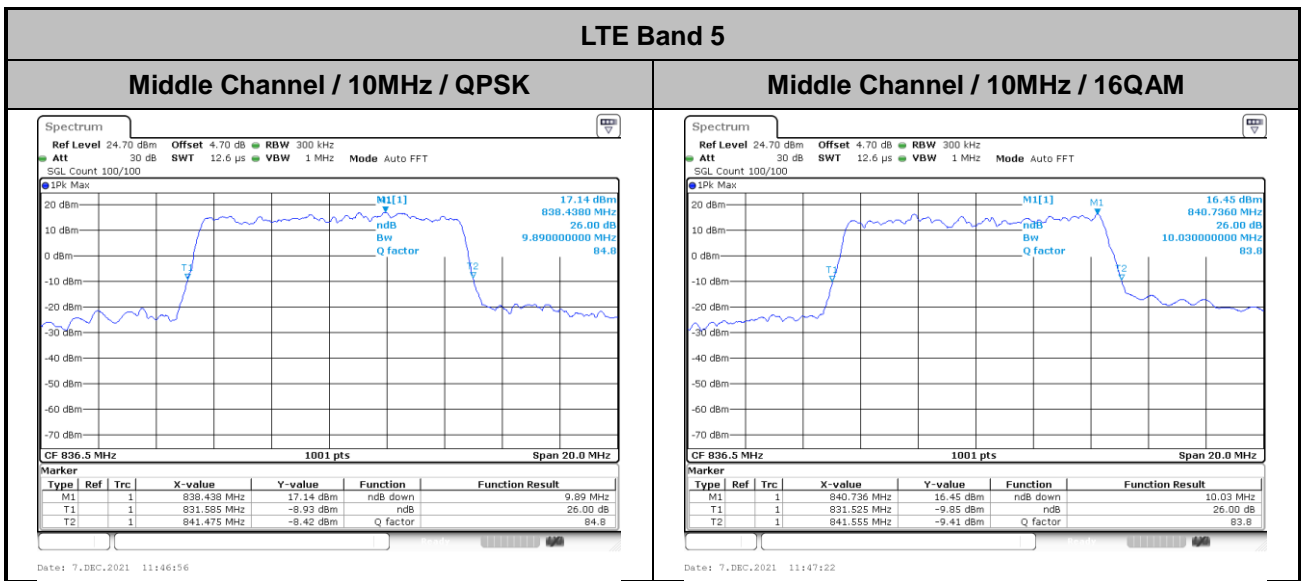
Mode	LTE Band 5 / 10MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	5.25	6.06	6.43	PASS





26dB Bandwidth

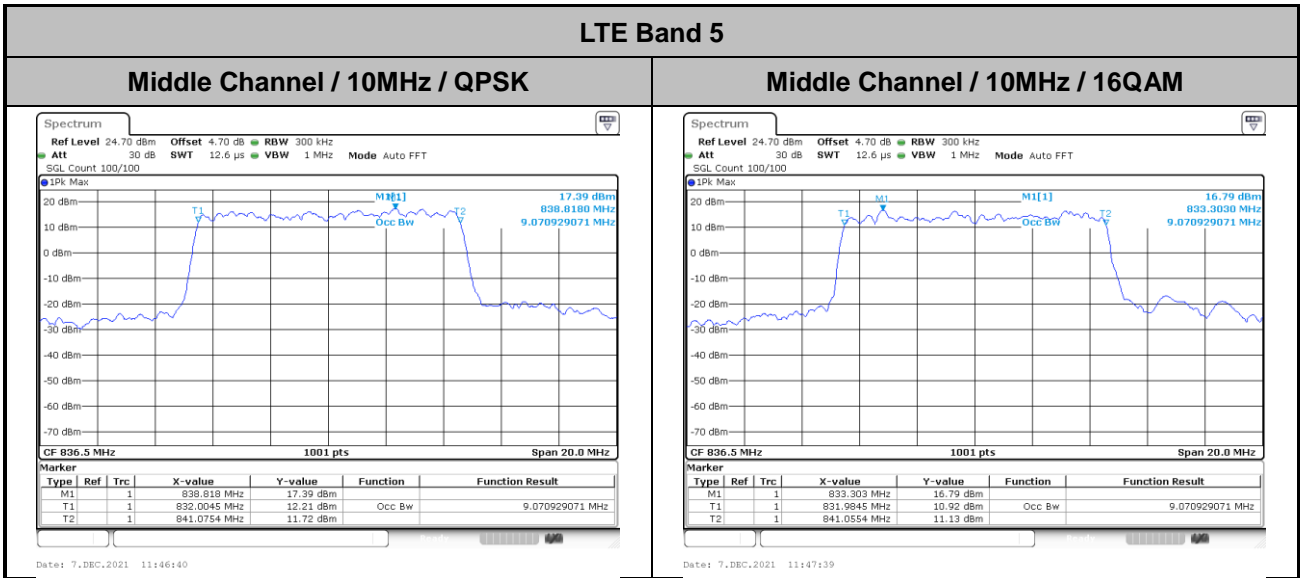
Mode	LTE Band 5 : 26dB BW(MHz)	
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.89	10.03





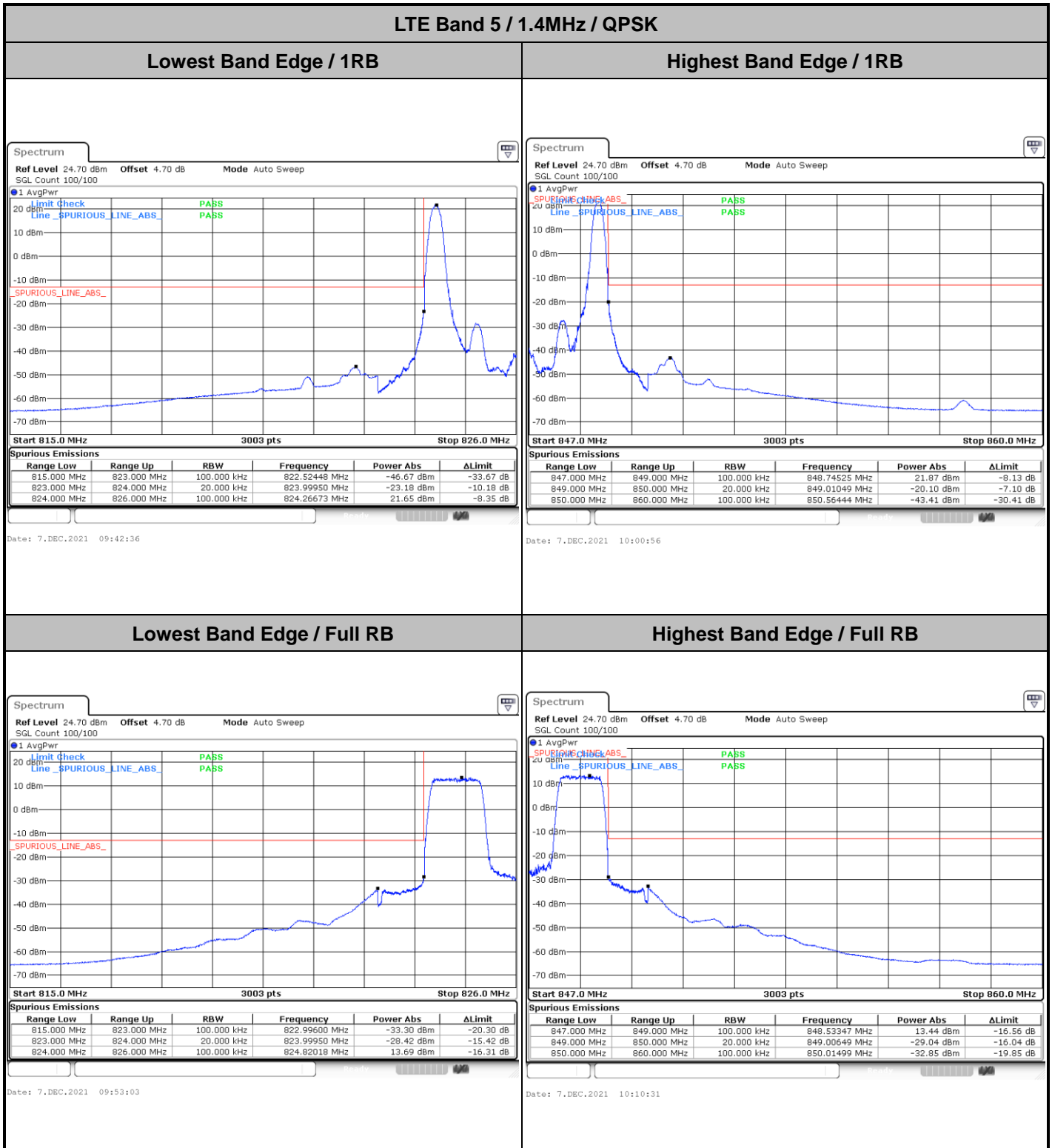
Occupied Bandwidth

Mode	LTE Band 5 : 99%OBW(MHz)	
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.07	9.07





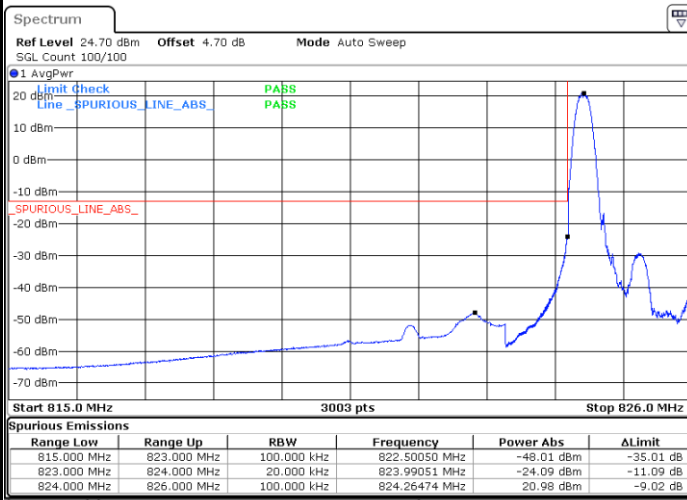
Conducted Band Edge





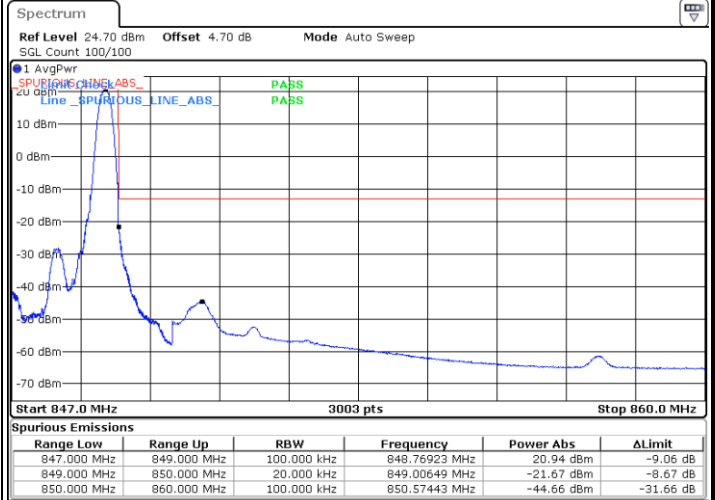
LTE Band 5 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



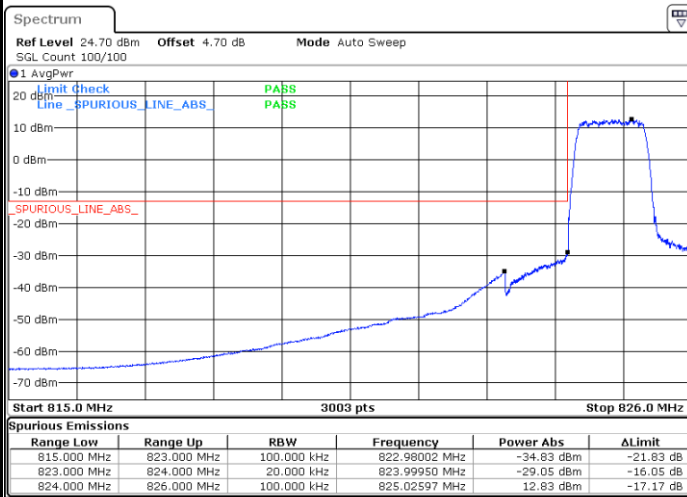
Date: 7.DEC.2021 09:44:32

Highest Band Edge / 1 RB



Date: 7.DEC.2021 10:02:51

Lowest Band Edge / Full RB



Date: 7.DEC.2021 09:50:56

Highest Band Edge / Full RB



Date: 7.DEC.2021 10:08:37



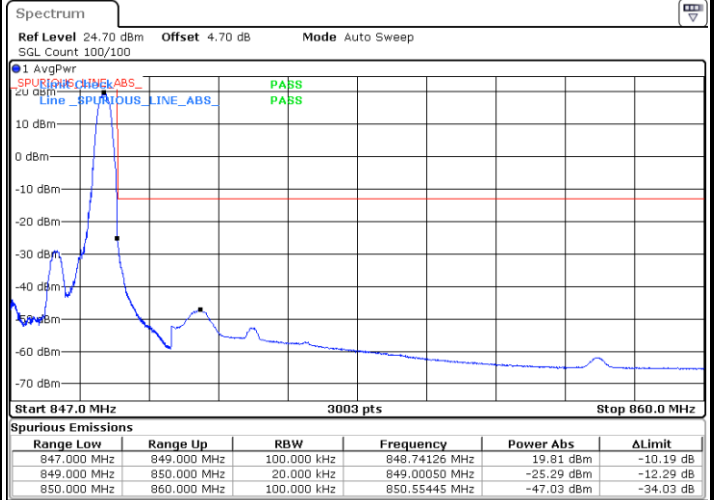
LTE Band 5 / 1.4MHz / 64QAM

Lowest Band Edge / 1 RB



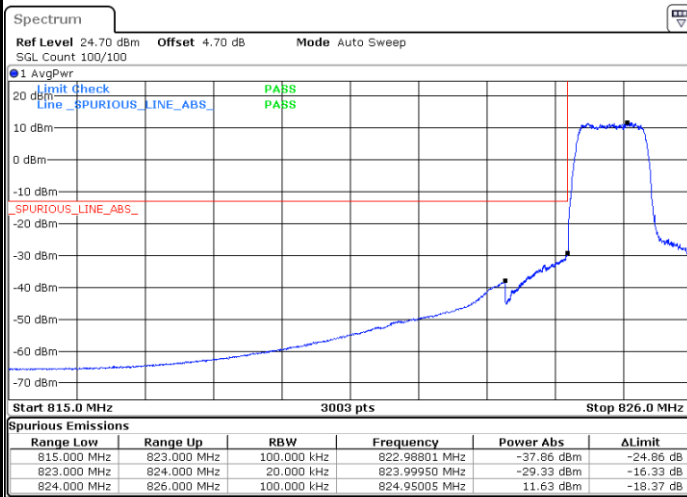
Date: 7.DEC.2021 09:46:27

Highest Band Edge / 1 RB



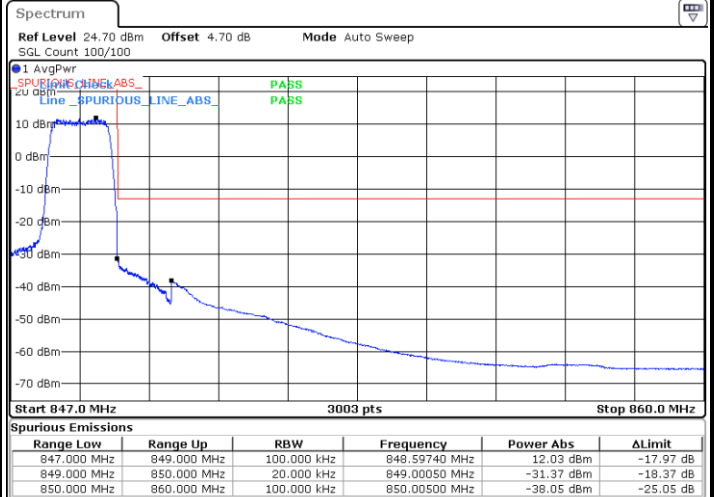
Date: 7.DEC.2021 10:04:46

Lowest Band Edge / Full RB



Date: 7.DEC.2021 09:48:22

Highest Band Edge / Full RB

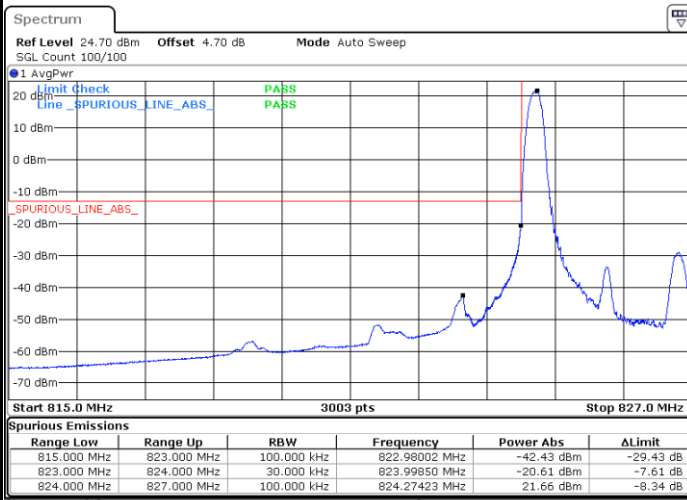


Date: 7.DEC.2021 10:06:41



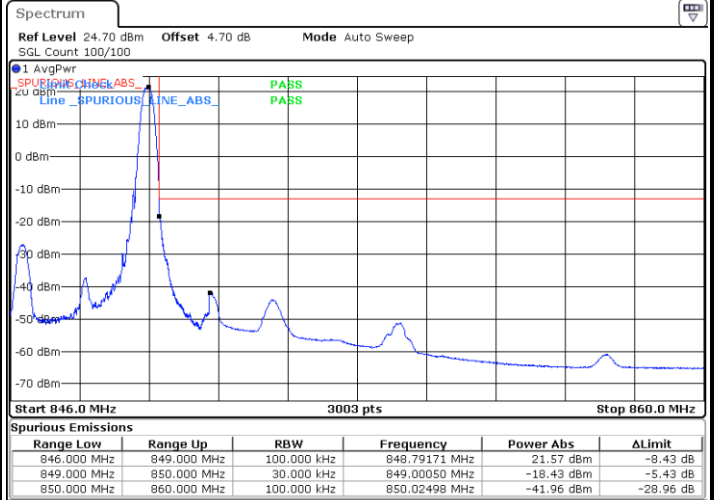
LTE Band 5 / 3MHz / QPSK

Lowest Band Edge / 1RB



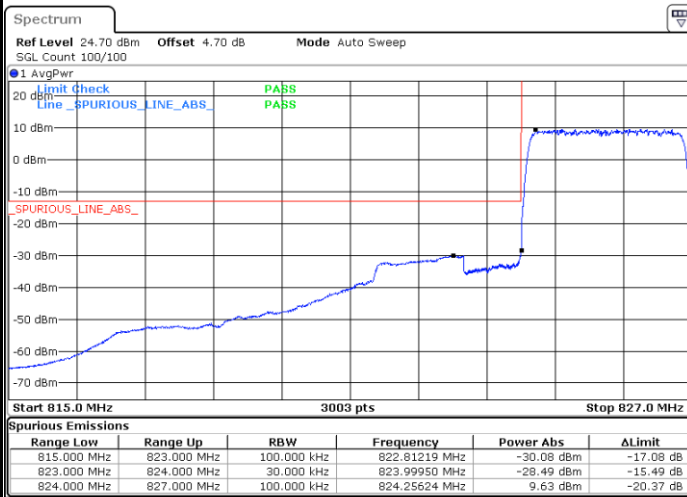
Date: 7.DEC.2021 10:15:16

Highest Band Edge / 1 RB



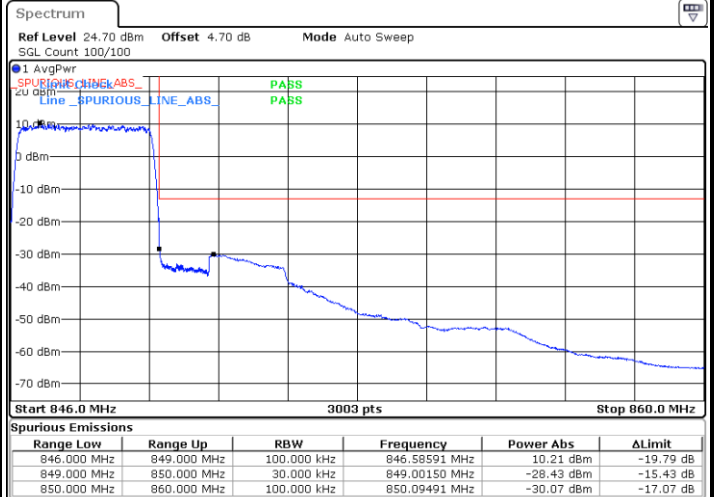
Date: 7.DEC.2021 10:32:45

Lowest Band Edge / Full RB



Date: 7.DEC.2021 10:24:52

Highest Band Edge / Full RB

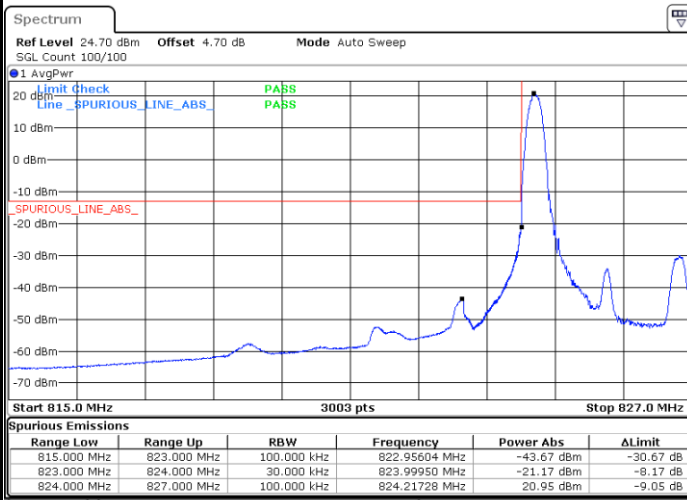


Date: 7.DEC.2021 10:42:22



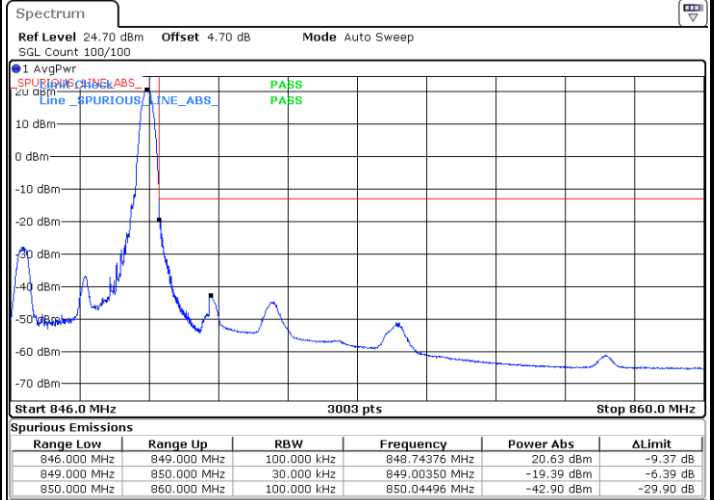
LTE Band 5 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



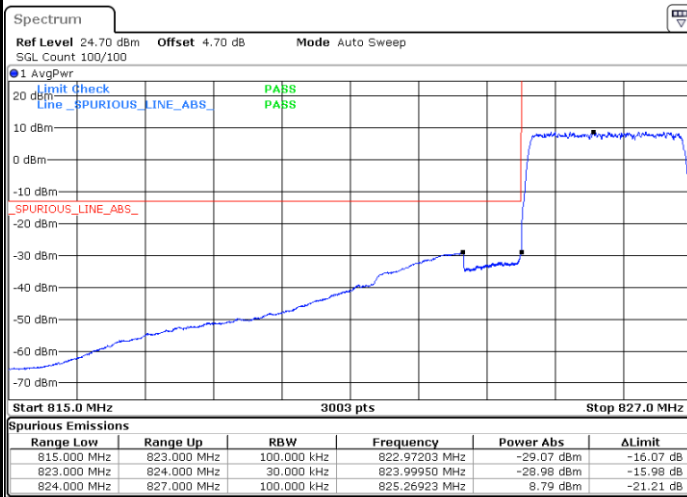
Date: 7.DEC.2021 10:17:11

Highest Band Edge / 1 RB



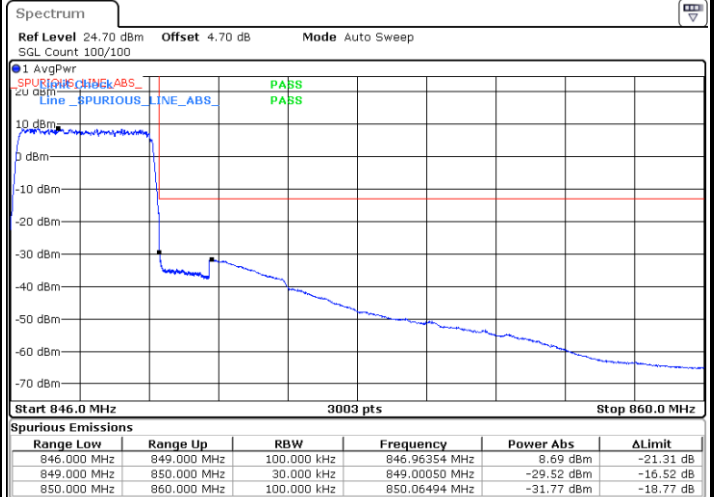
Date: 7.DEC.2021 10:34:40

Lowest Band Edge / Full RB



Date: 7.DEC.2021 10:22:57

Highest Band Edge / Full RB

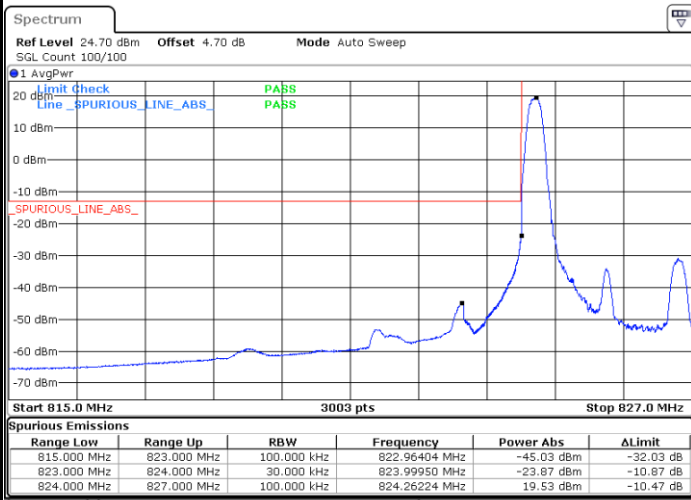


Date: 7.DEC.2021 10:40:27



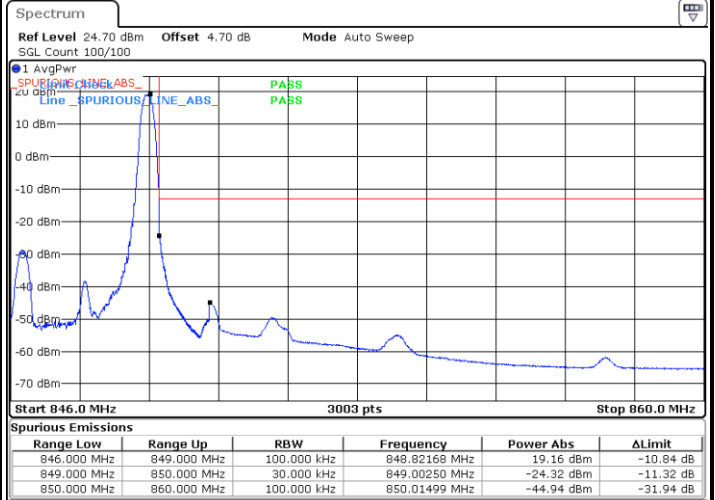
LTE Band 5 / 3MHz / 64QAM

Lowest Band Edge / 1 RB



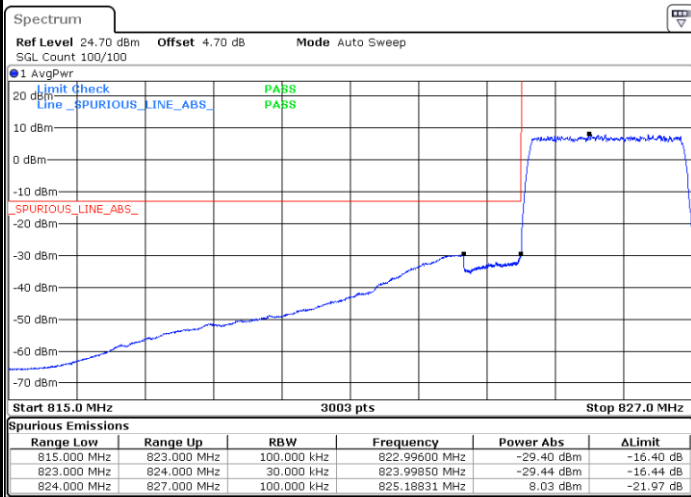
Date: 7.DEC.2021 10:19:06

Highest Band Edge / 1 RB



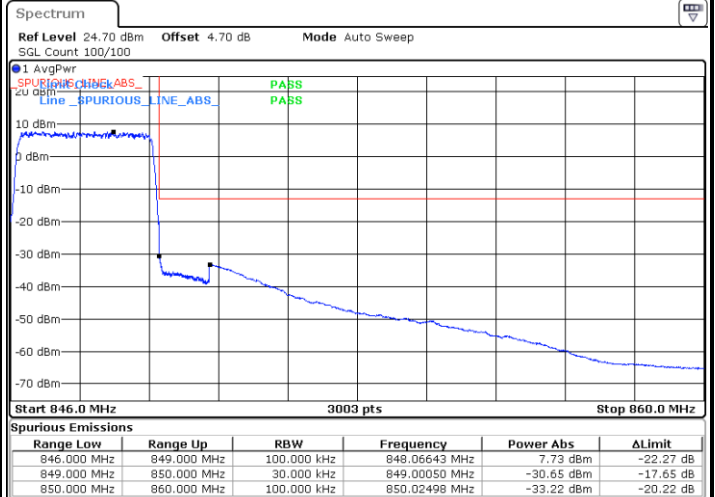
Date: 7.DEC.2021 10:36:37

Lowest Band Edge / Full RB



Date: 7.DEC.2021 10:21:01

Highest Band Edge / Full RB

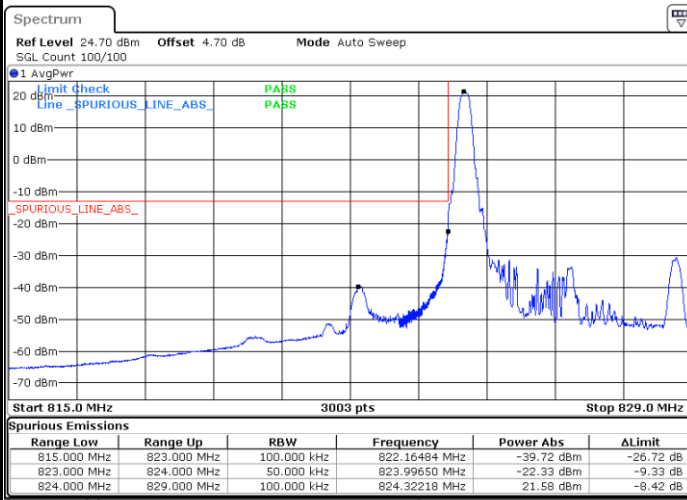


Date: 7.DEC.2021 10:38:32

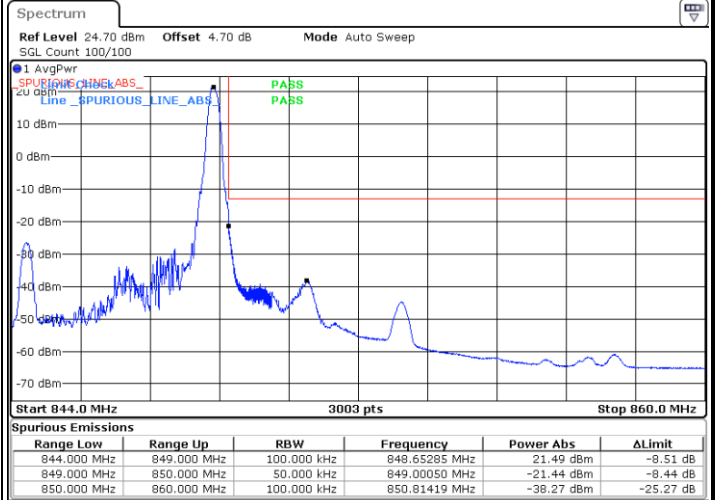


LTE Band 5 / 5MHz / QPSK

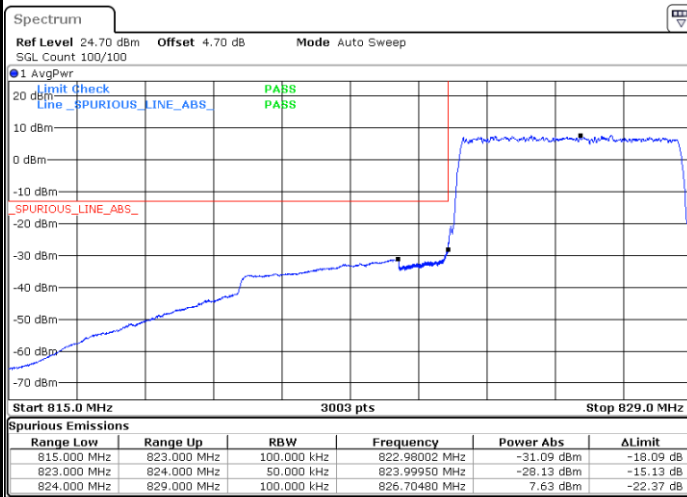
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



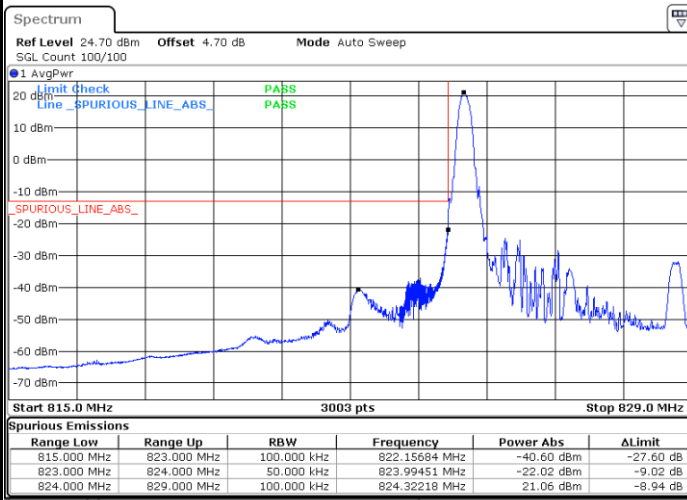
Highest Band Edge / Full RB





LTE Band 5 / 5MHz / 16QAM

Lowest Band Edge / 1RB



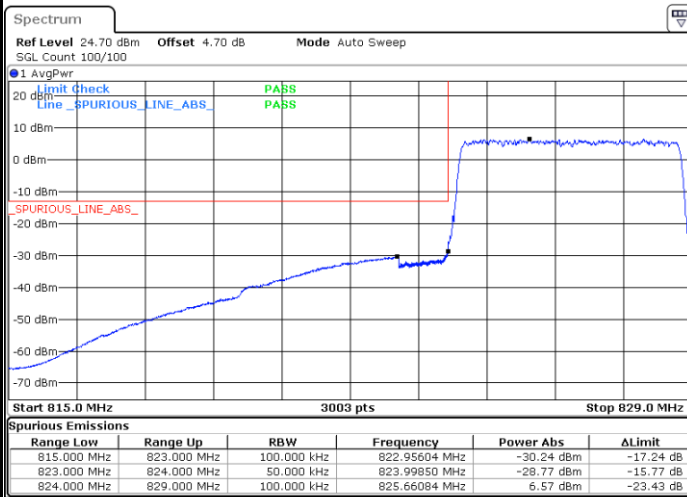
Date: 7.DEC.2021 10:49:02

Highest Band Edge / 1 RB



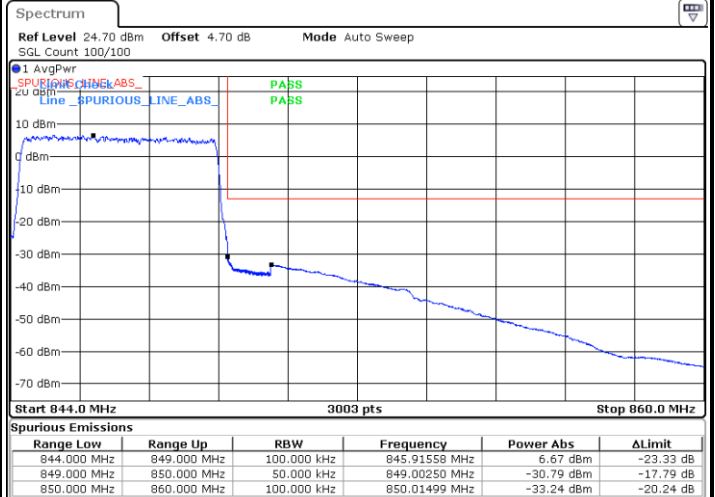
Date: 7.DEC.2021 11:06:39

Lowest Band Edge / Full RB



Date: 7.DEC.2021 10:54:55

Highest Band Edge / Full RB

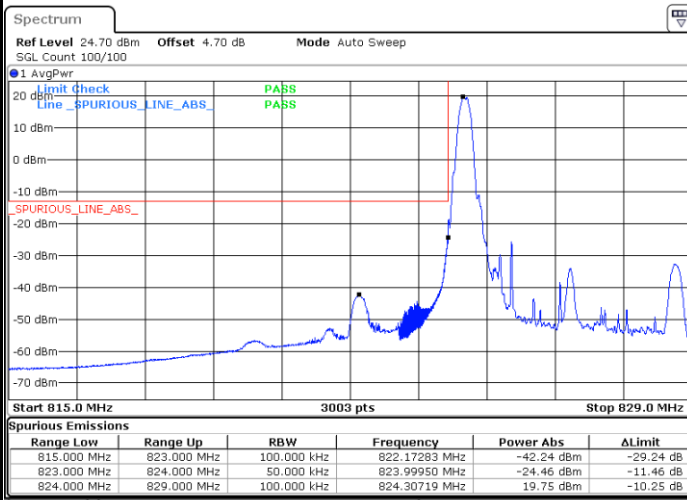


Date: 7.DEC.2021 11:12:24



LTE Band 5 / 5MHz / 64QAM

Lowest Band Edge / 1RB



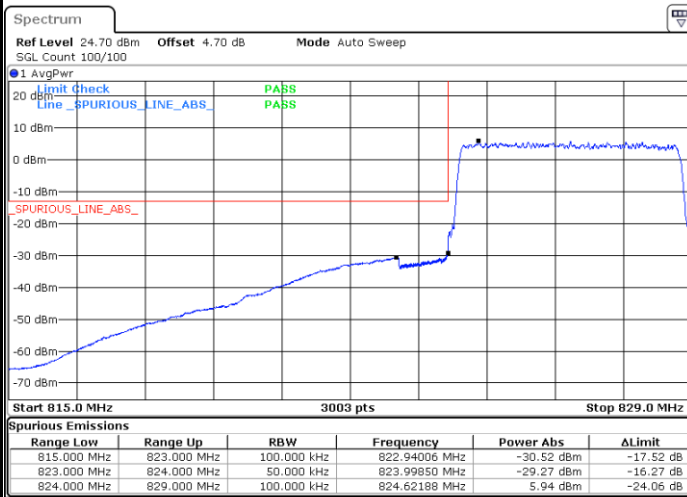
Date: 7.DEC.2021 10:50:57

Highest Band Edge / 1 RB



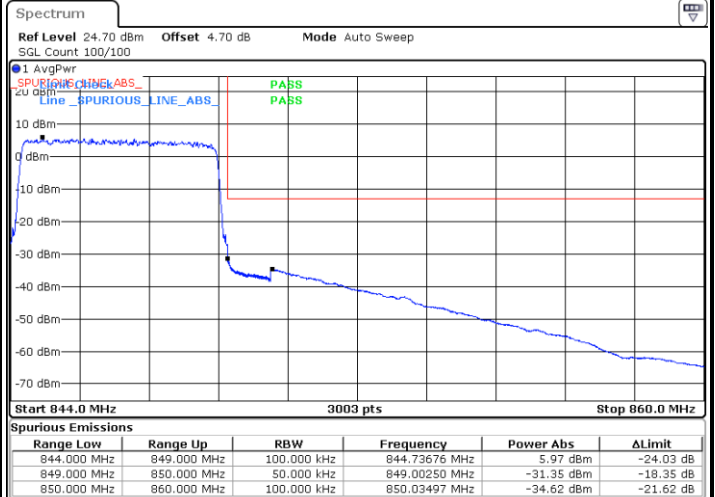
Date: 7.DEC.2021 11:08:34

Lowest Band Edge / Full RB



Date: 7.DEC.2021 10:52:53

Highest Band Edge / Full RB

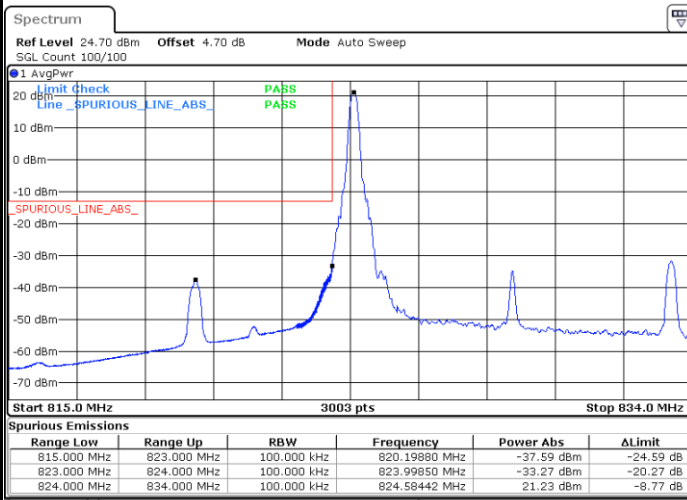


Date: 7.DEC.2021 11:10:29



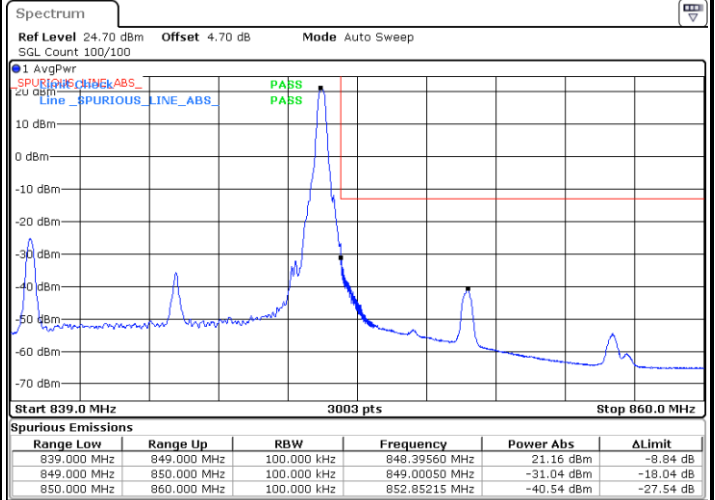
LTE Band 5 / 10MHz / QPSK

Lowest Band Edge / 1 RB



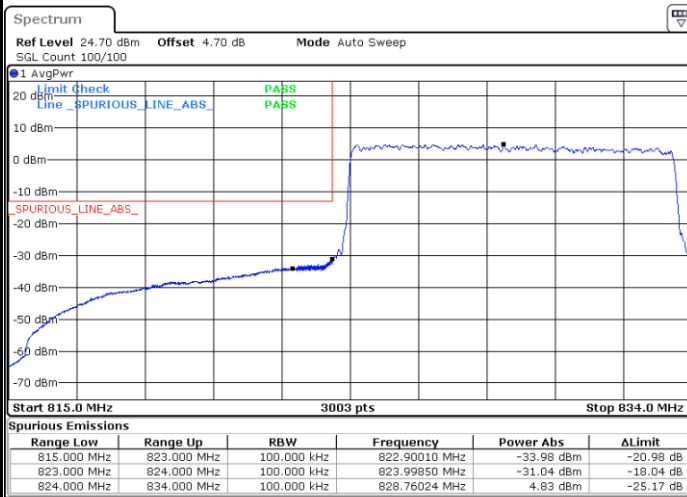
Date: 7.DEC.2021 11:19:04

Highest Band Edge / 1 RB



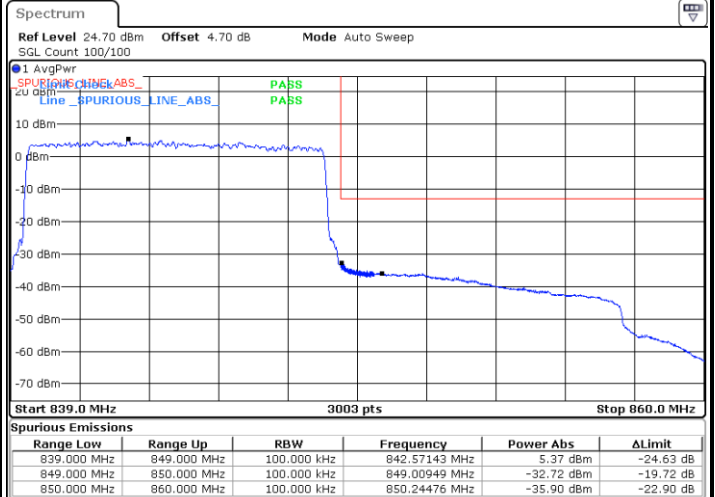
Date: 7.DEC.2021 11:36:36

Lowest Band Edge / Full RB



Date: 7.DEC.2021 11:28:43

Highest Band Edge / Full RB

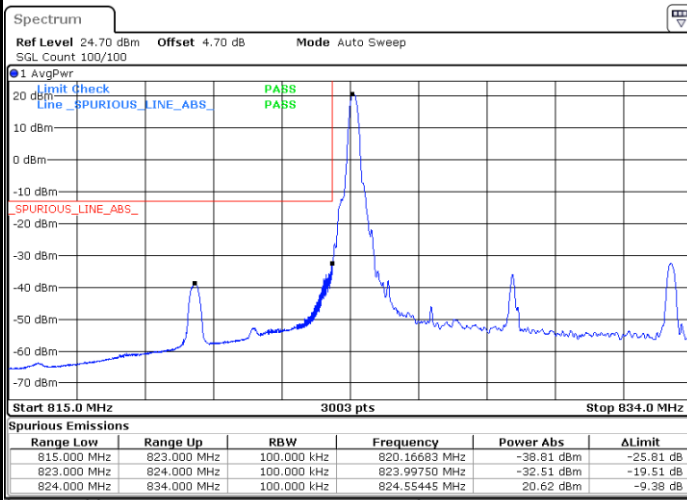


Date: 7.DEC.2021 11:46:12



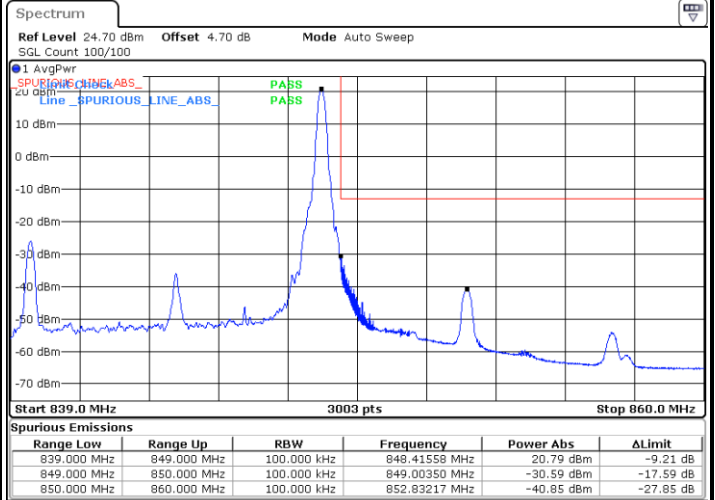
LTE Band 5 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



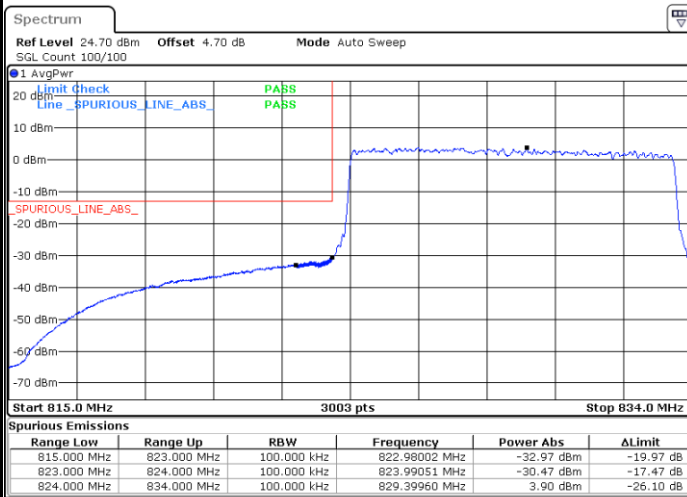
Date: 7.DEC.2021 11:21:00

Highest Band Edge / 1 RB



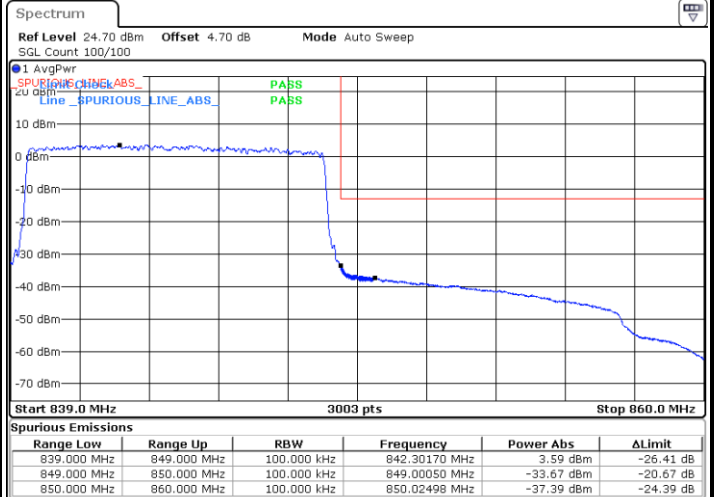
Date: 7.DEC.2021 11:38:31

Lowest Band Edge / Full RB



Date: 7.DEC.2021 11:26:47

Highest Band Edge / Full RB

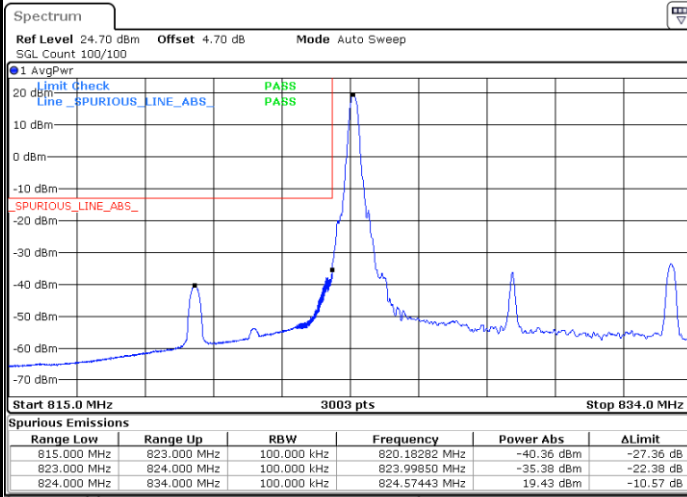


Date: 7.DEC.2021 11:44:17



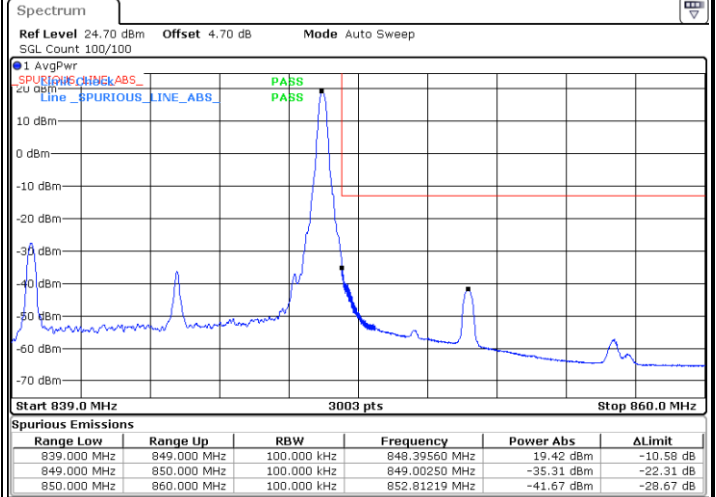
LTE Band 5 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



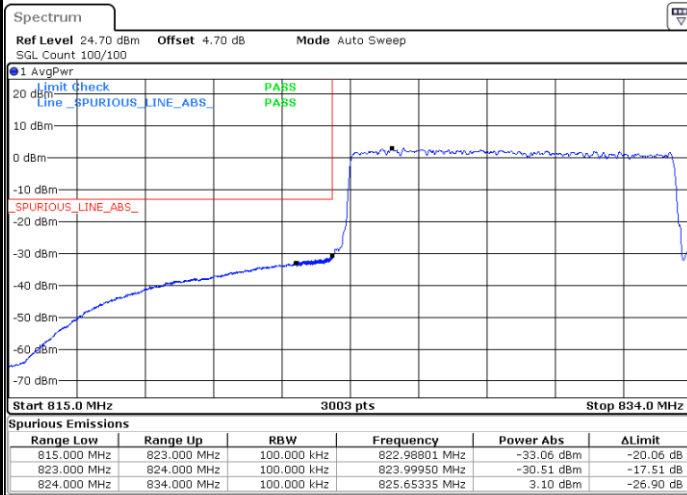
Date: 7.DEC.2021 11:22:57

Highest Band Edge / 1 RB



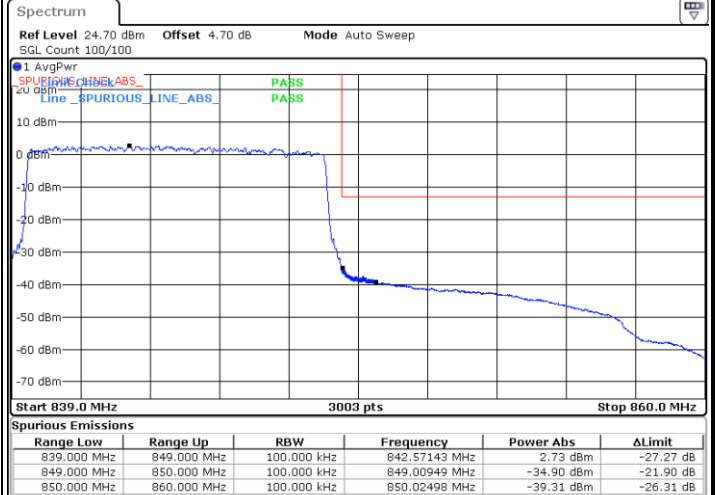
Date: 7.DEC.2021 11:40:26

Lowest Band Edge / Full RB



Date: 7.DEC.2021 11:24:52

Highest Band Edge / Full RB



Date: 7.DEC.2021 11:42:22

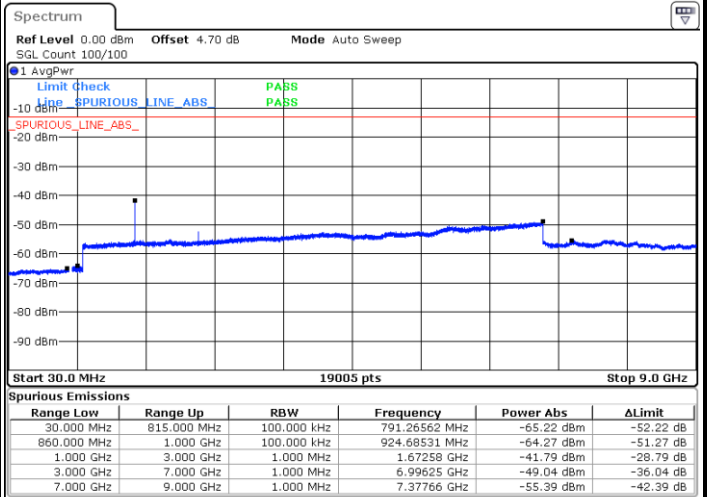
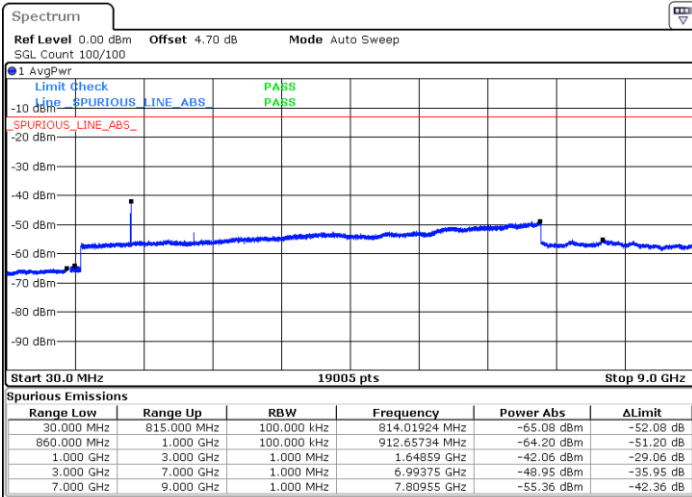


Conducted Spurious Emission

LTE Band 5 / 1.4MHz

Lowest Channel / QPSK

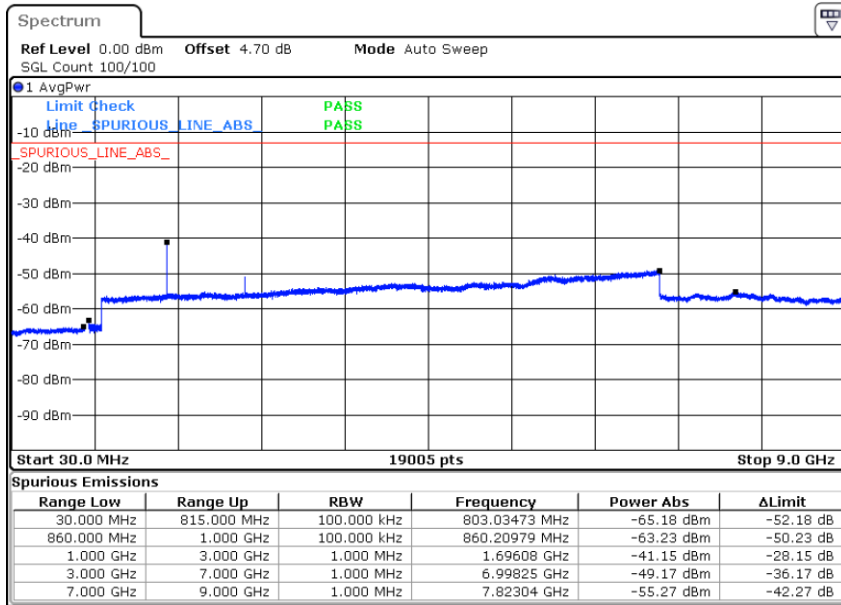
Middle Channel / QPSK



Date: 7.DEC.2021 09:40:51

Date: 7.DEC.2021 09:56:02

Highest Channel / QPSK



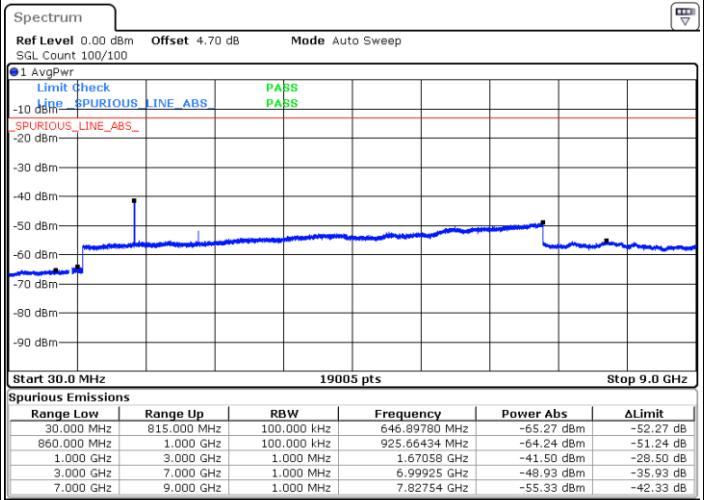
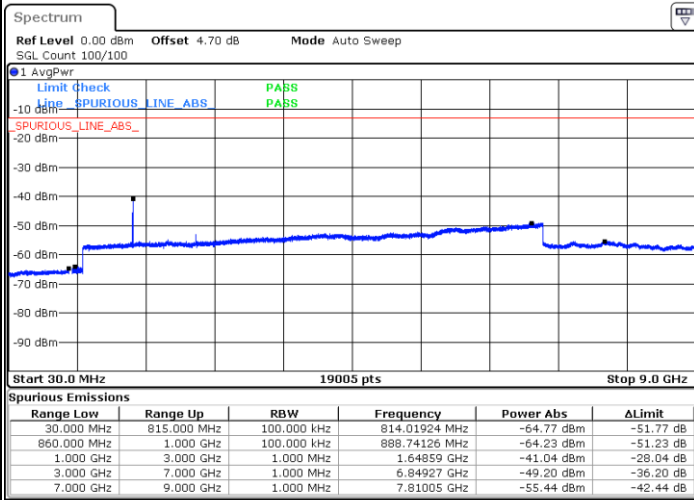
Date: 7.DEC.2021 09:59:00



LTE Band 5 / 3MHz

Lowest Channel / QPSK

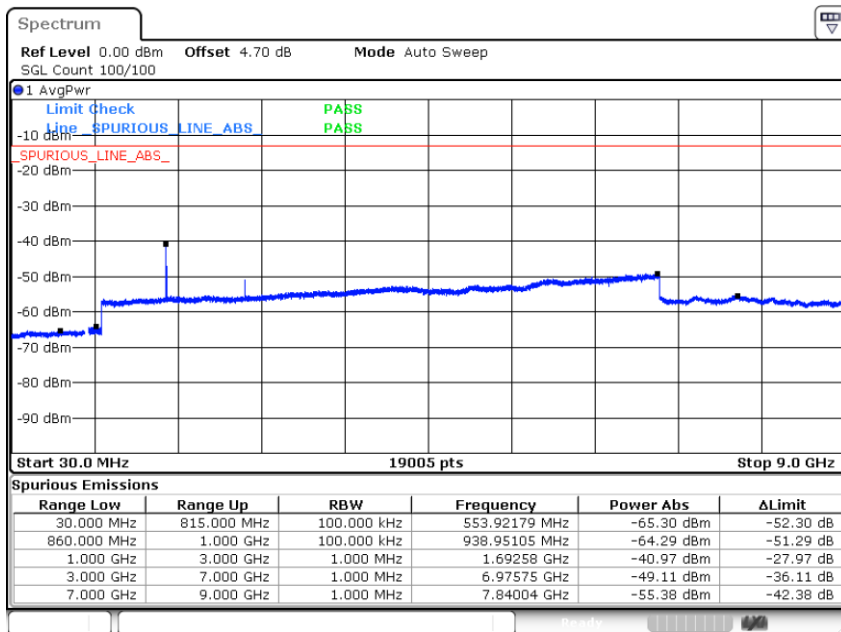
Middle Channel / QPSK



Date: 7.DEC.2021 10:13:30

Date: 7.DEC.2021 10:27:50

Highest Channel / QPSK



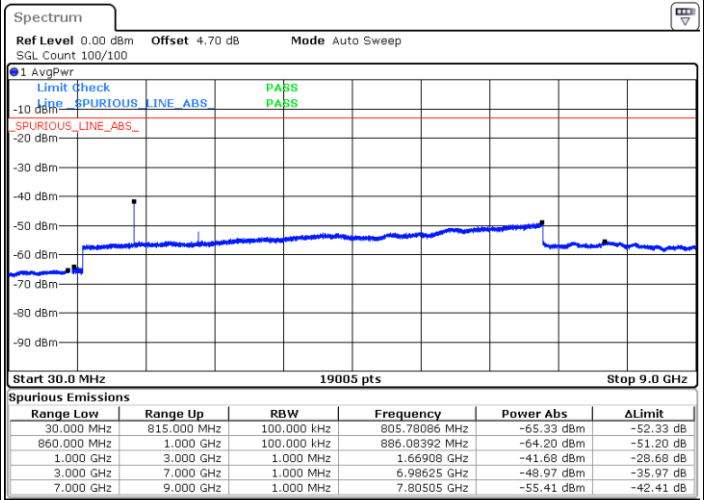
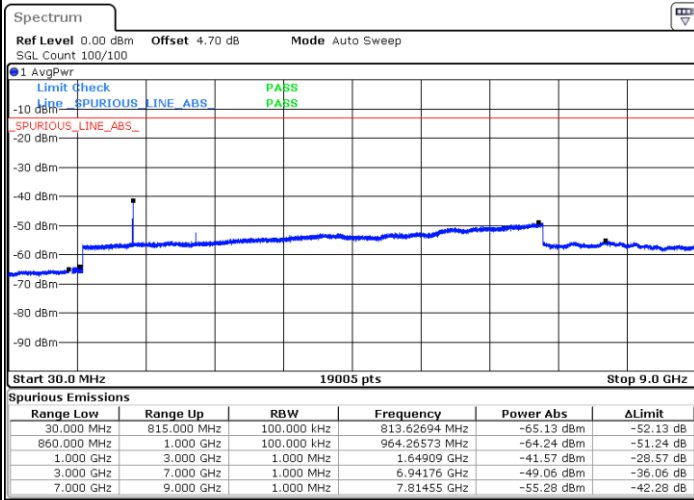
Date: 7.DEC.2021 10:30:50



LTE Band 5 / 5MHz

Lowest Channel / QPSK

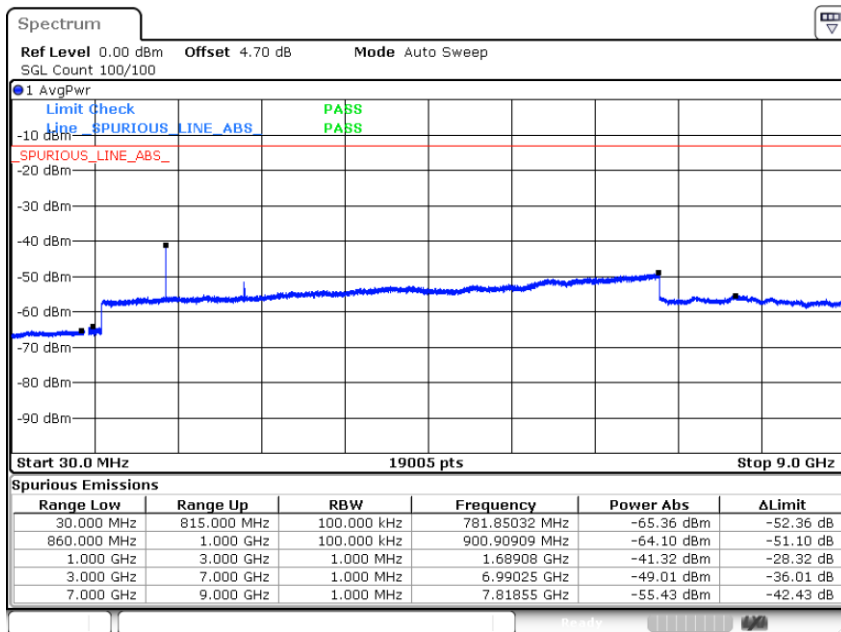
Middle Channel / QPSK



Date: 7.DEC.2021 10:45:22

Date: 7.DEC.2021 10:59:49

Highest Channel / QPSK



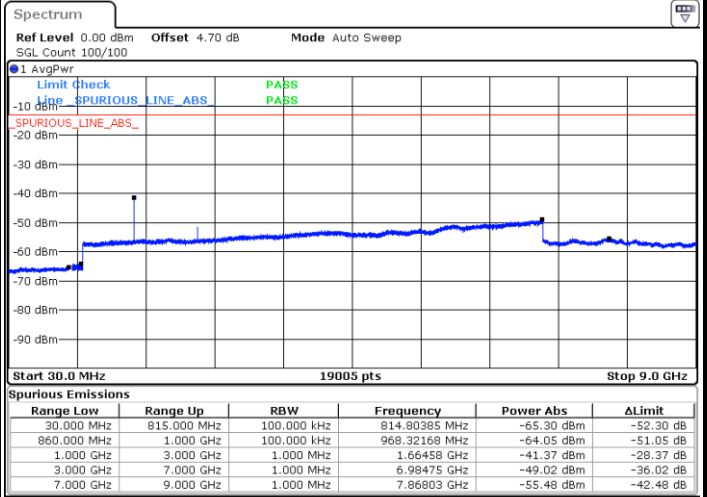
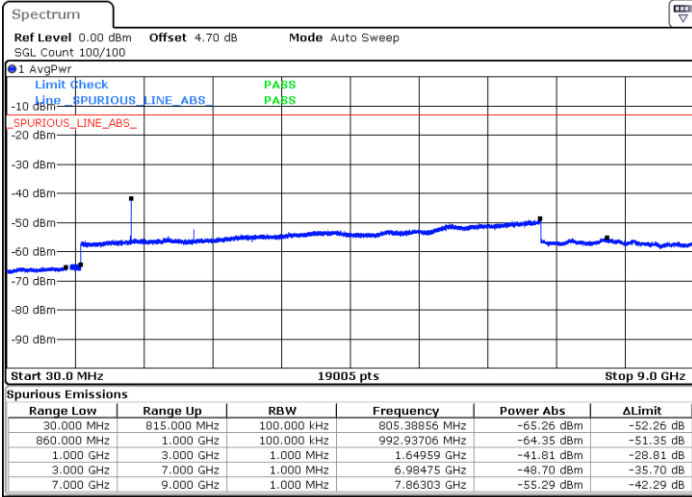
Date: 7.DEC.2021 11:02:48



LTE Band 5 / 10MHz

Lowest Channel / QPSK

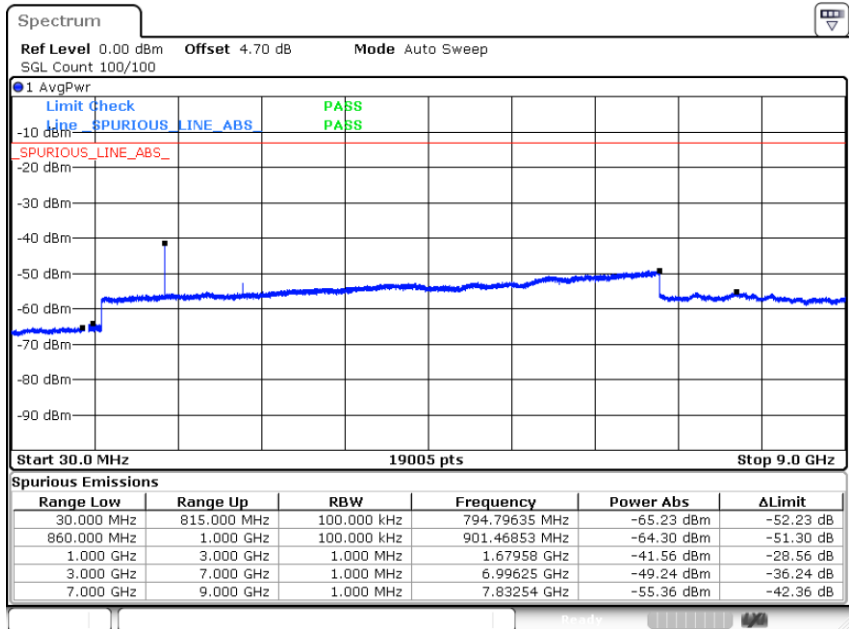
Middle Channel / QPSK



Date: 7.DEC.2021 11:17:19

Date: 7.DEC.2021 11:31:42

Highest Channel / QPSK



Date: 7.DEC.2021 11:34:40



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	0.0020	PASS
40	Normal Voltage	0.0013	
30	Normal Voltage	0.0003	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0022	
0	Normal Voltage	0.0007	
-10	Normal Voltage	0.0003	
-20	Normal Voltage	0.0008	
-30	Normal Voltage	0.0013	
20	Maximum Voltage	0.0001	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0014	

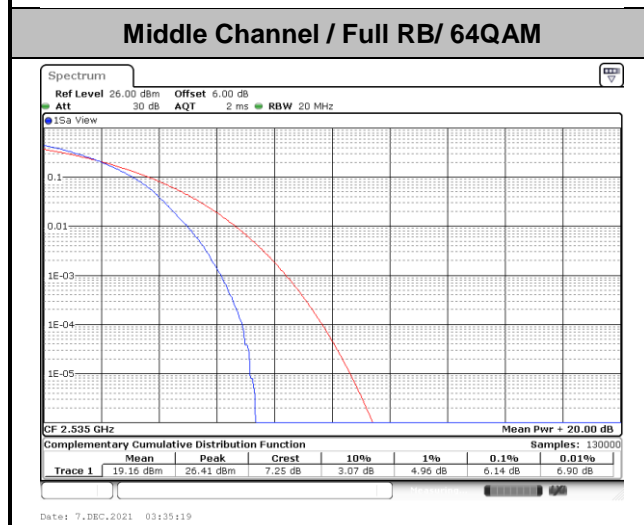
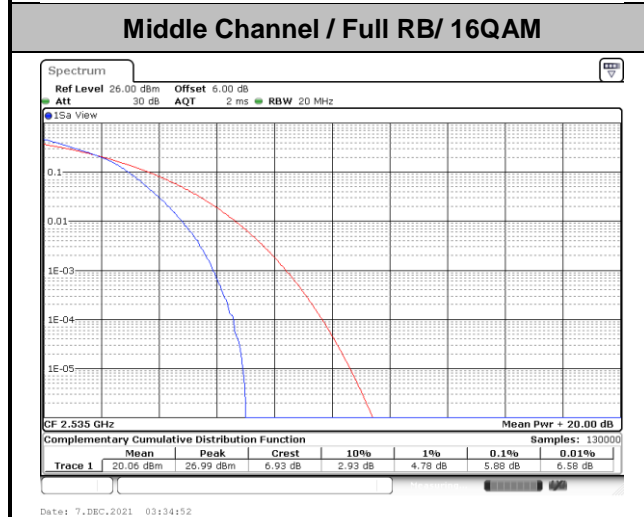
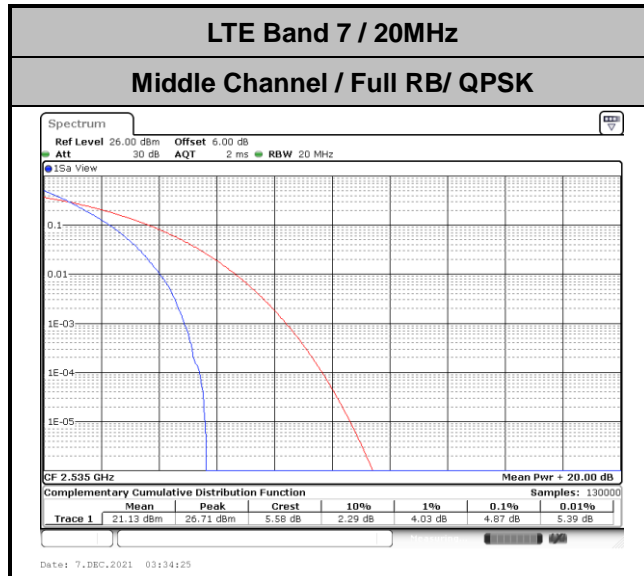
Note: Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.2 V.



LTE Band 7

Peak-to-Average Ratio

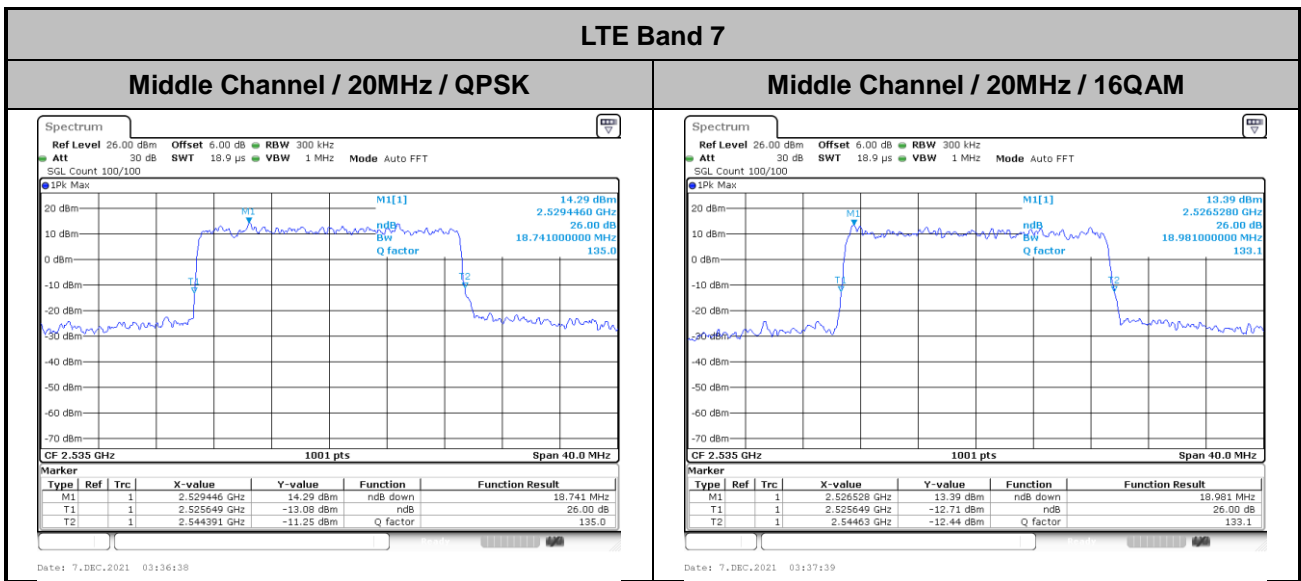
Mode	LTE Band 7 / 20MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	4.87	5.88	6.14	PASS





26dB Bandwidth

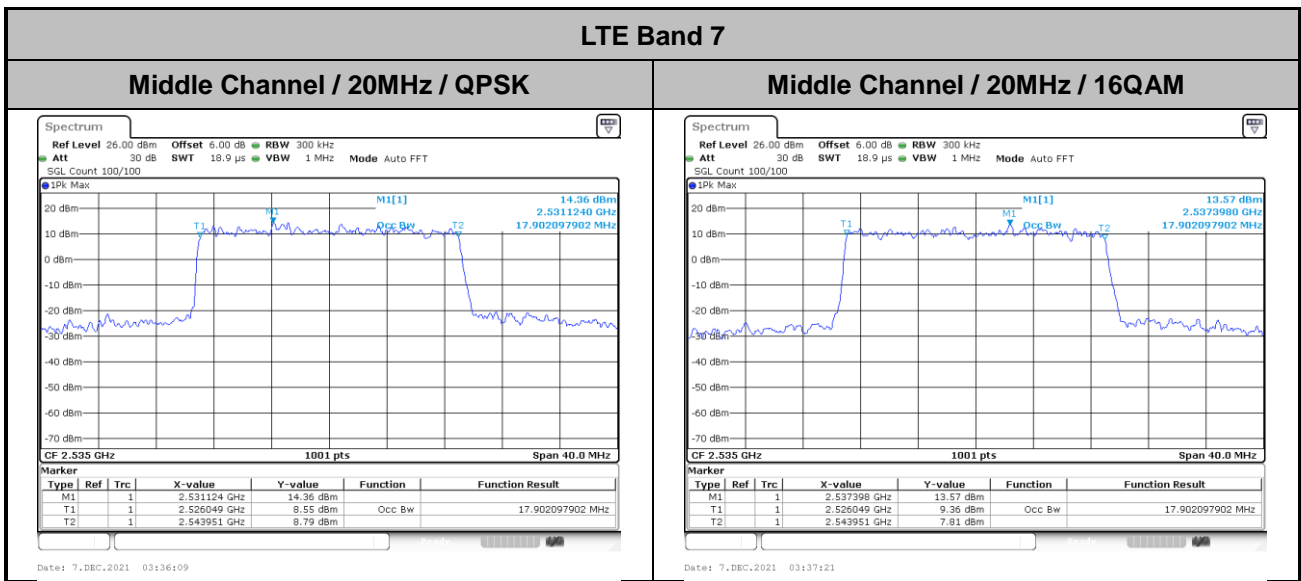
Mode	LTE Band 7 : 26dB BW(MHz)	
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	18.74	18.98





Occupied Bandwidth

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

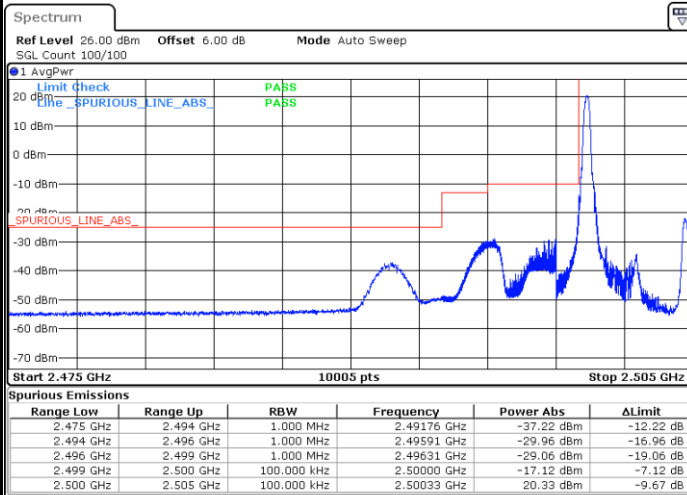




Conducted Band Edge

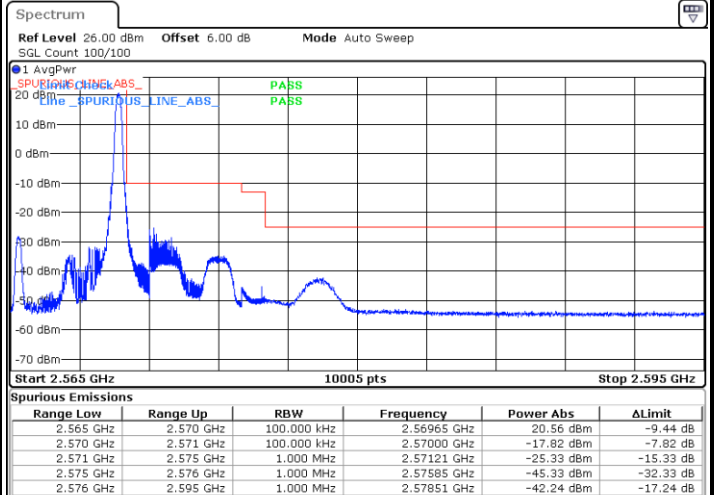
LTE Band 7 / 5MHz / QPSK

Lowest Band Edge / 1 RB



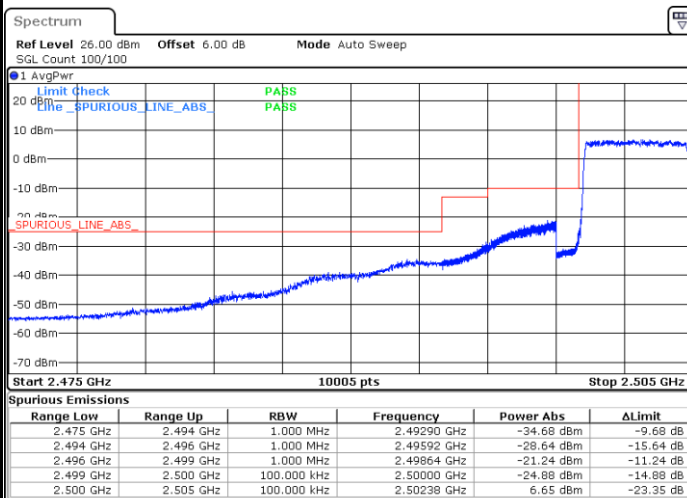
Date: 7.DEC.2021 01:09:27

Highest Band Edge / 1 RB



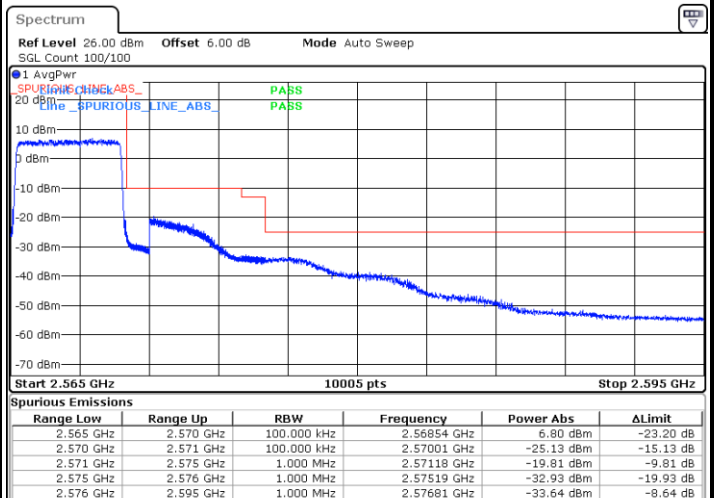
Date: 7.DEC.2021 01:21:02

Lowest Band Edge / Full RB



Date: 7.DEC.2021 00:59:49

Highest Band Edge / Full RB

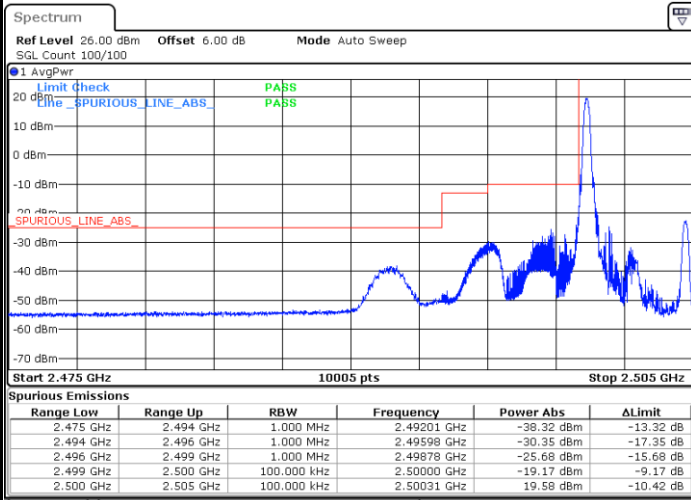


Date: 7.DEC.2021 01:11:23



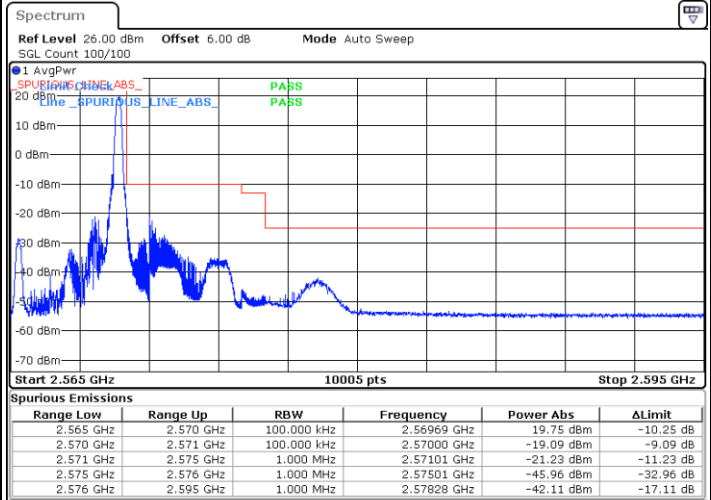
LTE Band 7 / 5MHz / 16QAM

Lowest Band Edge / 1RB



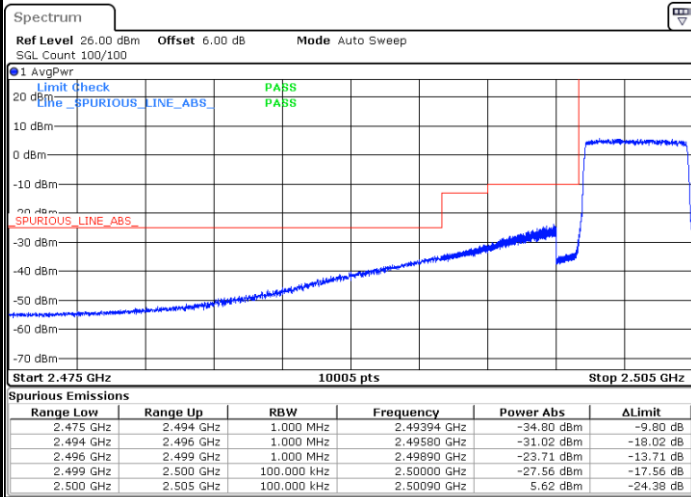
Date: 7.DEC.2021 01:07:31

Highest Band Edge / 1 RB



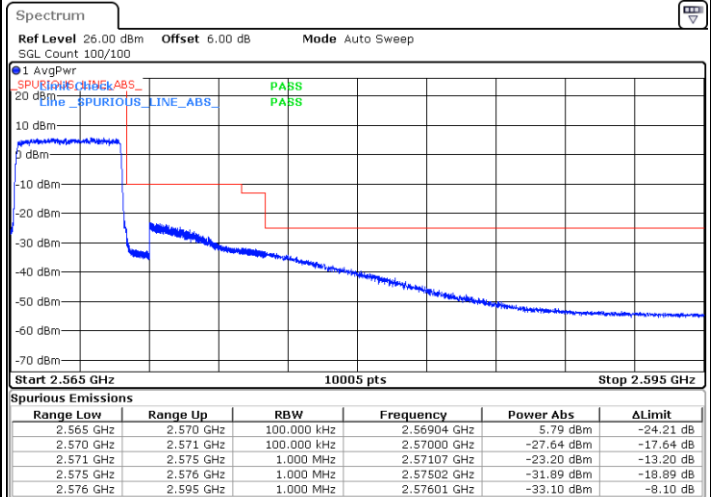
Date: 7.DEC.2021 01:19:06

Lowest Band Edge / Full RB



Date: 7.DEC.2021 01:01:44

Highest Band Edge / Full RB

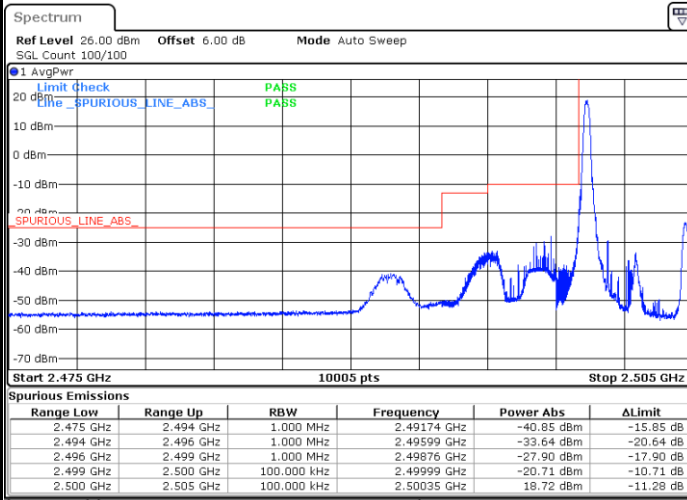


Date: 7.DEC.2021 01:13:20



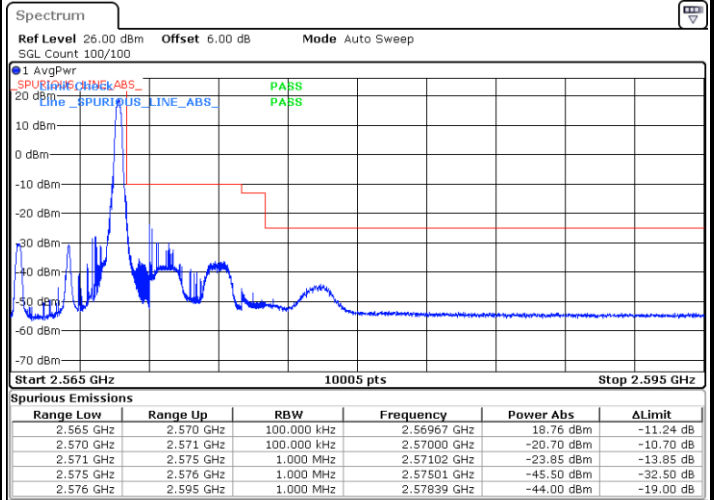
LTE Band 7 / 5MHz / 64QAM

Lowest Band Edge / 1RB



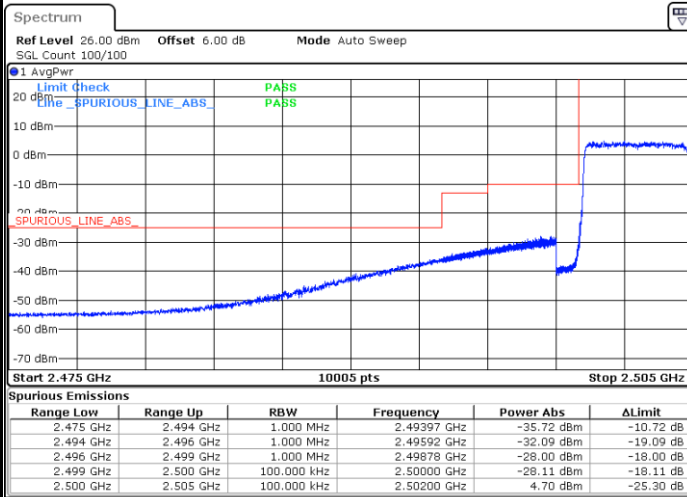
Date: 7.DEC.2021 01:05:36

Highest Band Edge / 1 RB



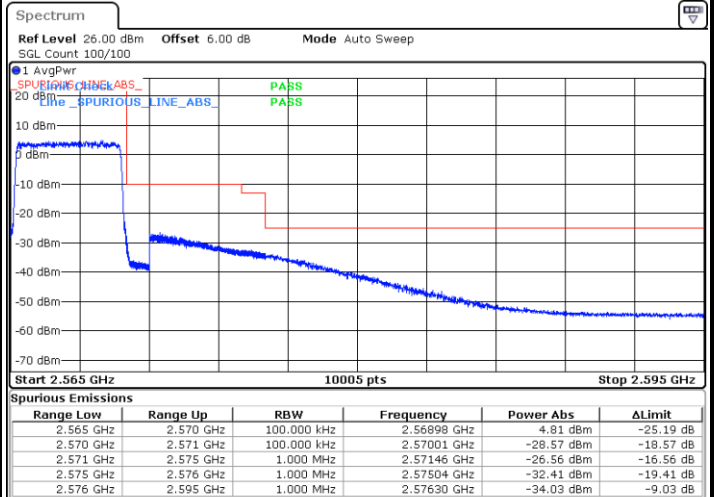
Date: 7.DEC.2021 01:17:10

Lowest Band Edge / Full RB



Date: 7.DEC.2021 01:03:40

Highest Band Edge / Full RB

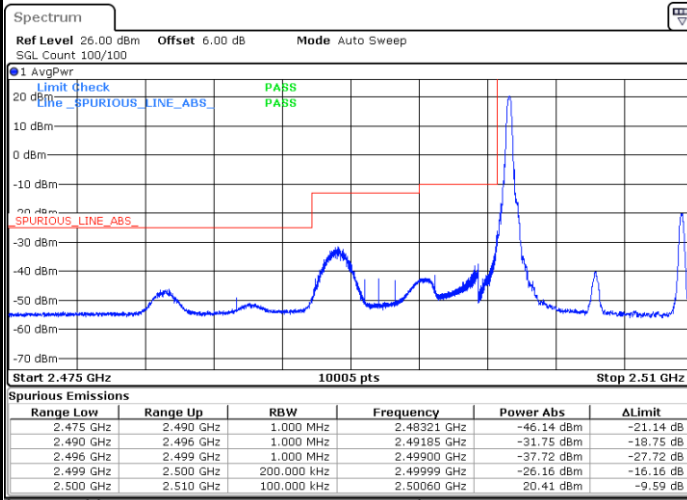


Date: 7.DEC.2021 01:15:15



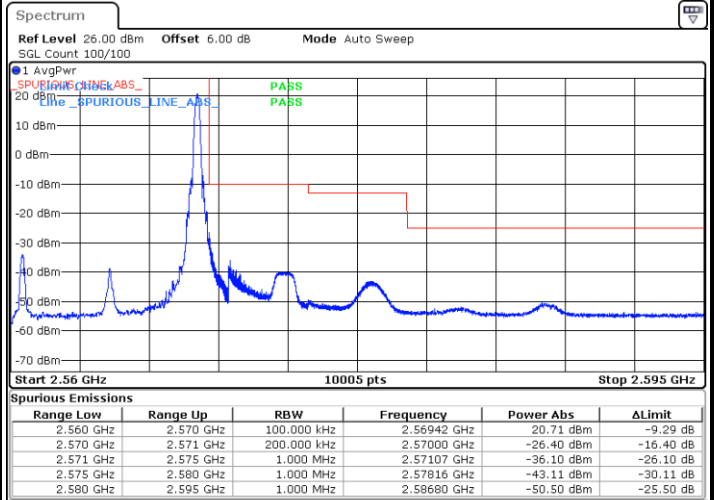
LTE Band 7 / 10MHz / QPSK

Lowest Band Edge / 1 RB



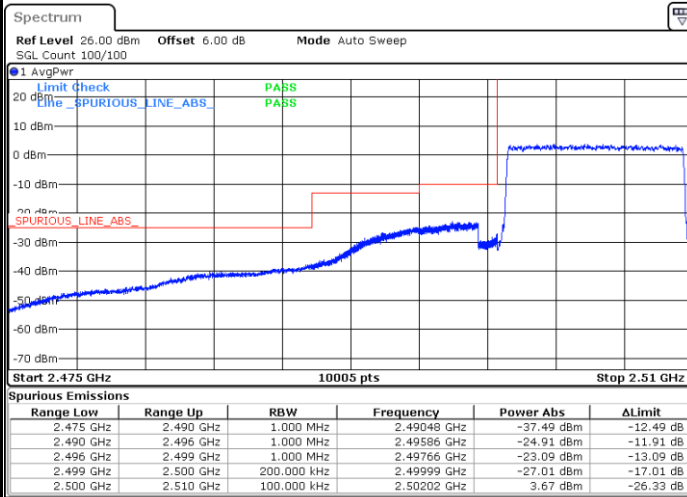
Date: 7.DEC.2021 01:32:34

Highest Band Edge / 1 RB



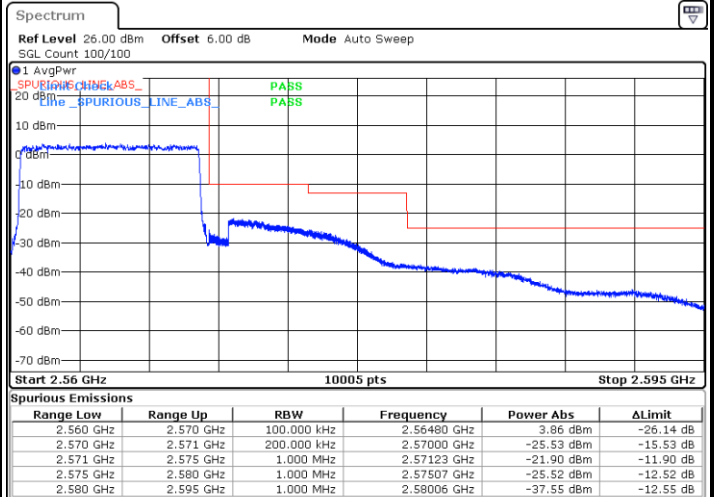
Date: 7.DEC.2021 01:44:12

Lowest Band Edge / Full RB



Date: 7.DEC.2021 01:22:58

Highest Band Edge / Full RB

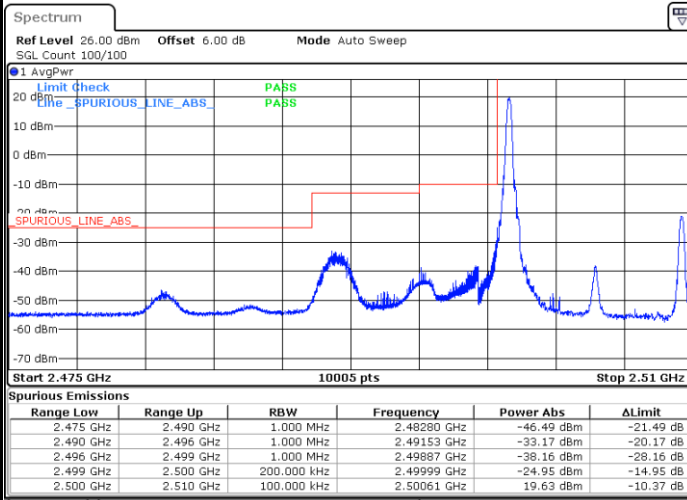


Date: 7.DEC.2021 01:34:30



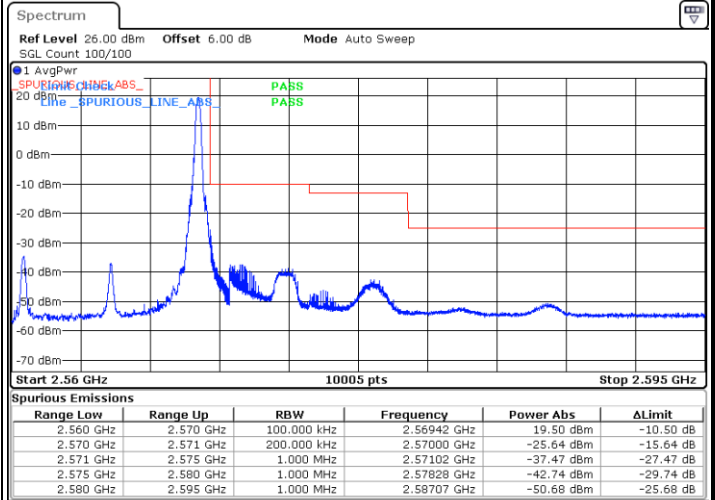
LTE Band 7 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



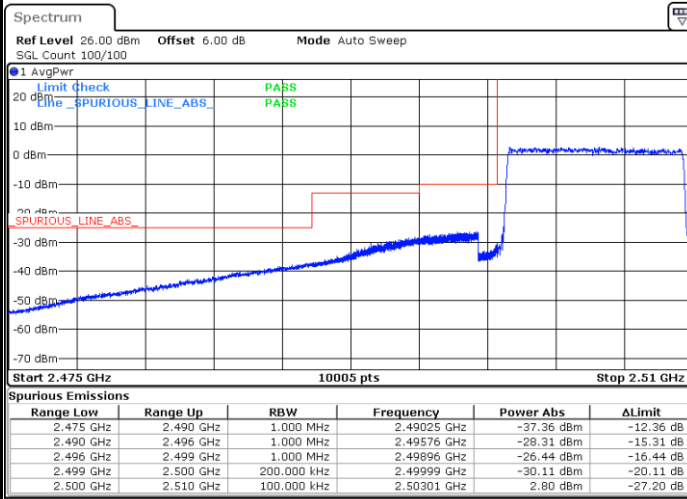
Date: 7.DEC.2021 01:30:39

Highest Band Edge / 1 RB



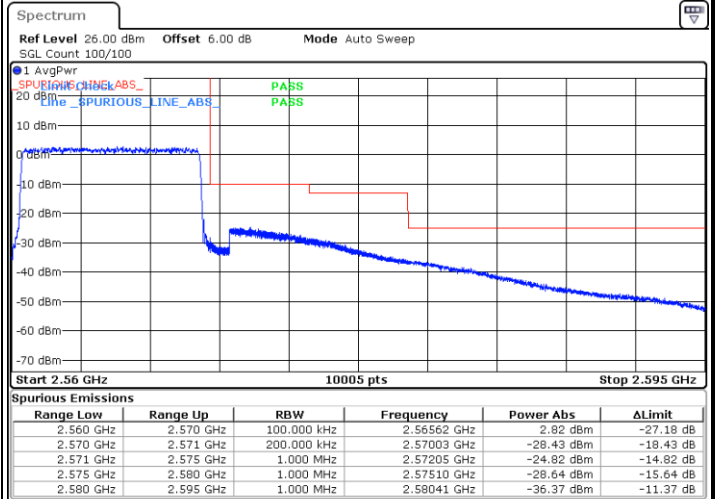
Date: 7.DEC.2021 01:42:17

Lowest Band Edge / Full RB



Date: 7.DEC.2021 01:24:53

Highest Band Edge / Full RB



Date: 7.DEC.2021 01:36:31