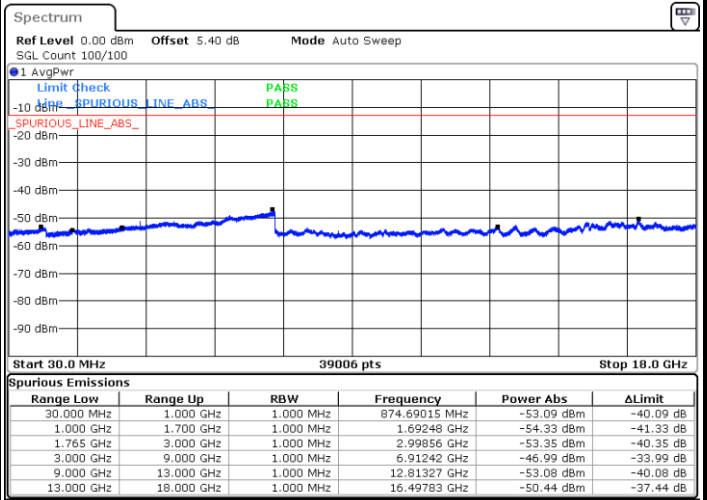
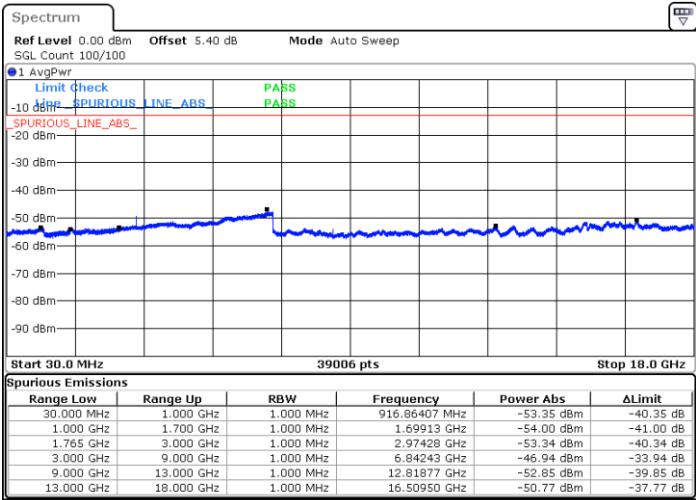




LTE Band 4 / 10MHz

Lowest Channel / QPSK

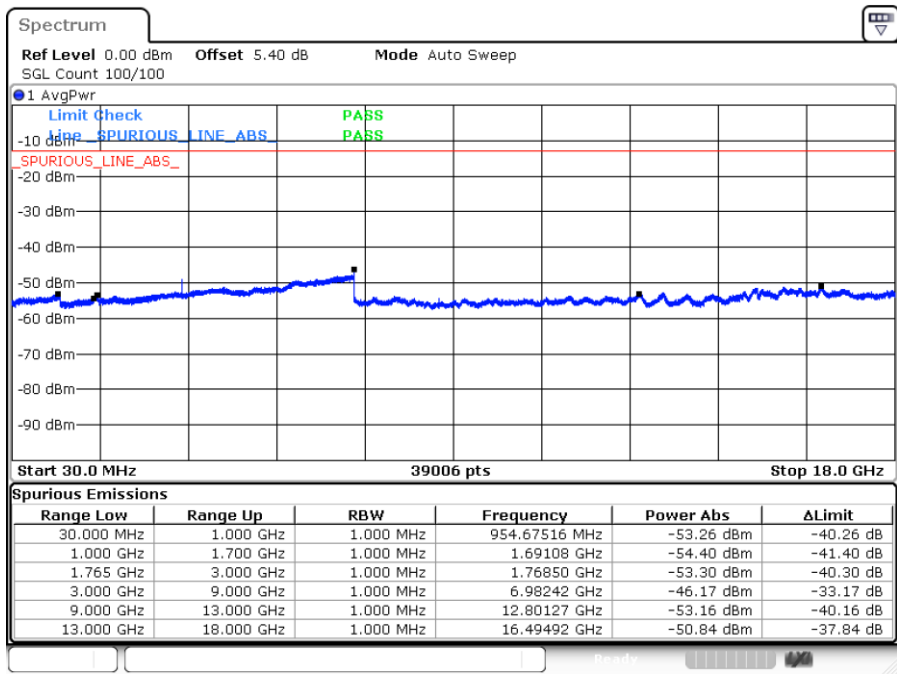
Middle Channel / QPSK



Date: 1.MAR.2022 22:41:16

Date: 1.MAR.2022 22:48:17

Highest Channel / QPSK

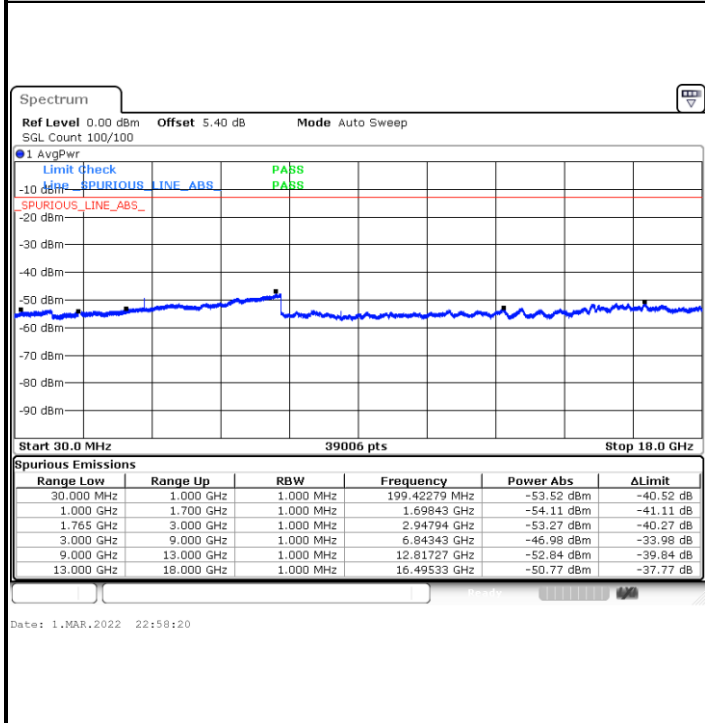


Date: 1.MAR.2022 22:50:19

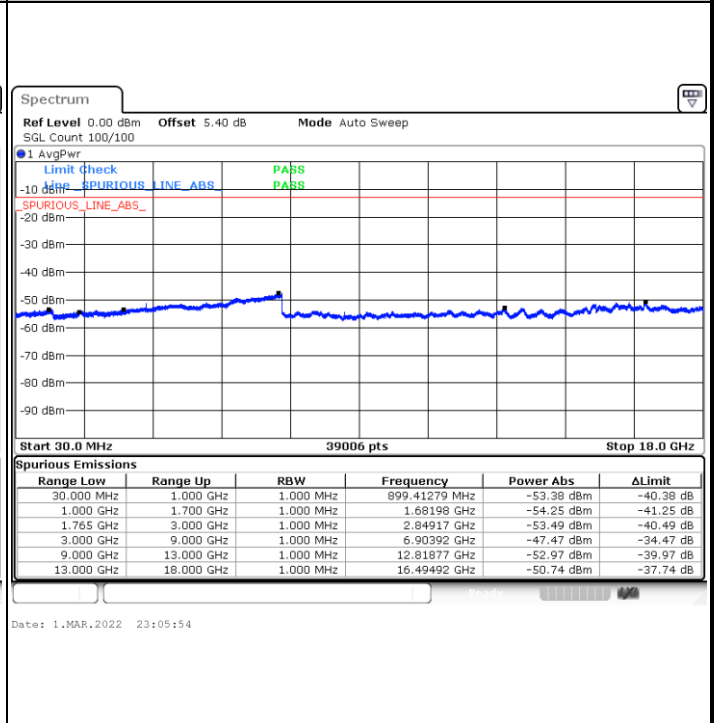


LTE Band 4 / 15MHz

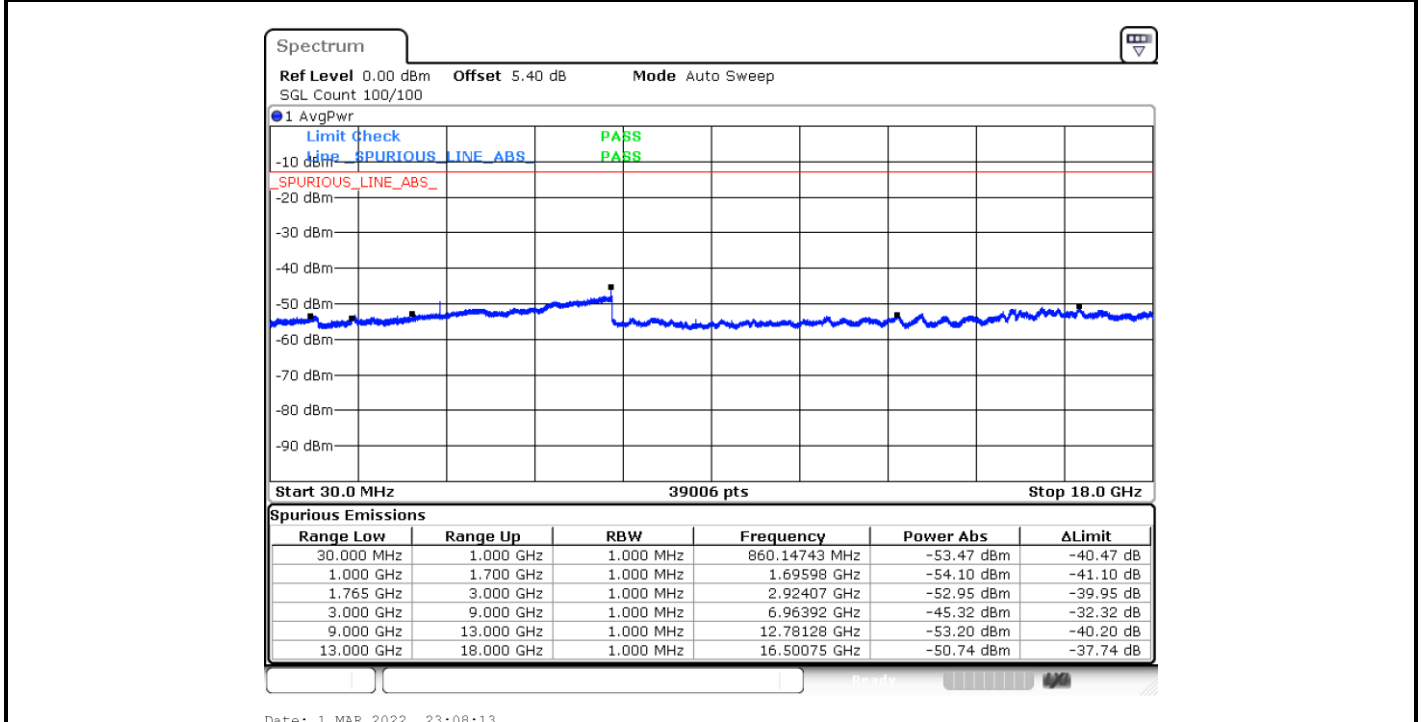
Lowest Channel / QPSK



Middle Channel / QPSK



Highest Channel / QPSK

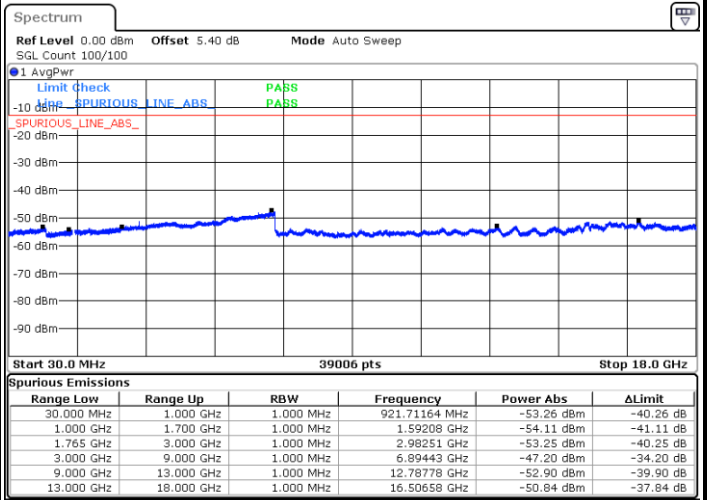
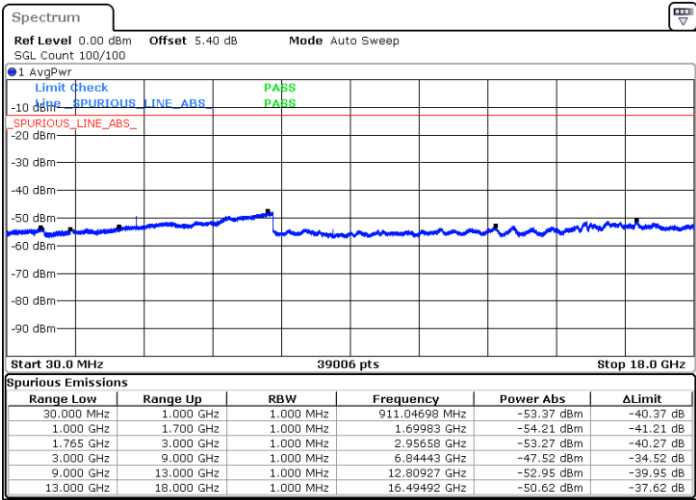




LTE Band 4 / 20MHz

Lowest Channel / QPSK

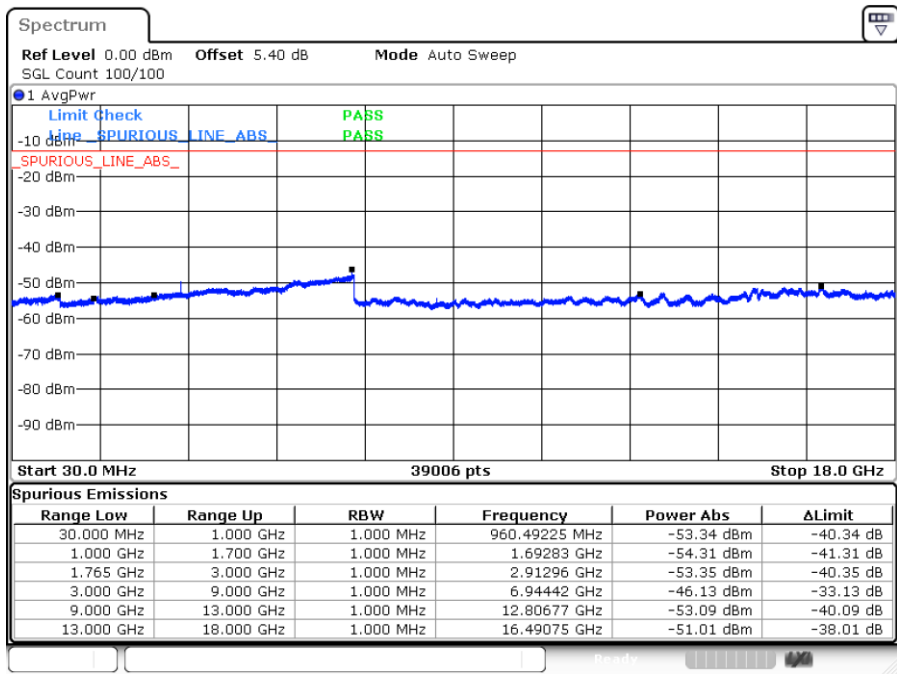
Middle Channel / QPSK



Date: 1.MAR.2022 23:20:01

Date: 1.MAR.2022 23:35:14

Highest Channel / QPSK



Date: 1.MAR.2022 23:42:47



Frequency Stability

Test Conditions		LTE Band 4 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0024	PASS
40	Normal Voltage	0.0013	
30	Normal Voltage	0.0006	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0004	
0	Normal Voltage	0.0001	
-10	Normal Voltage	0.0007	
-20	Normal Voltage	0.0010	
-30	Normal Voltage	0.0017	
20	Maximum Voltage	0.0016	
20	Normal Voltage	0.0009	
20	Battery End Point	0.0007	

Note:

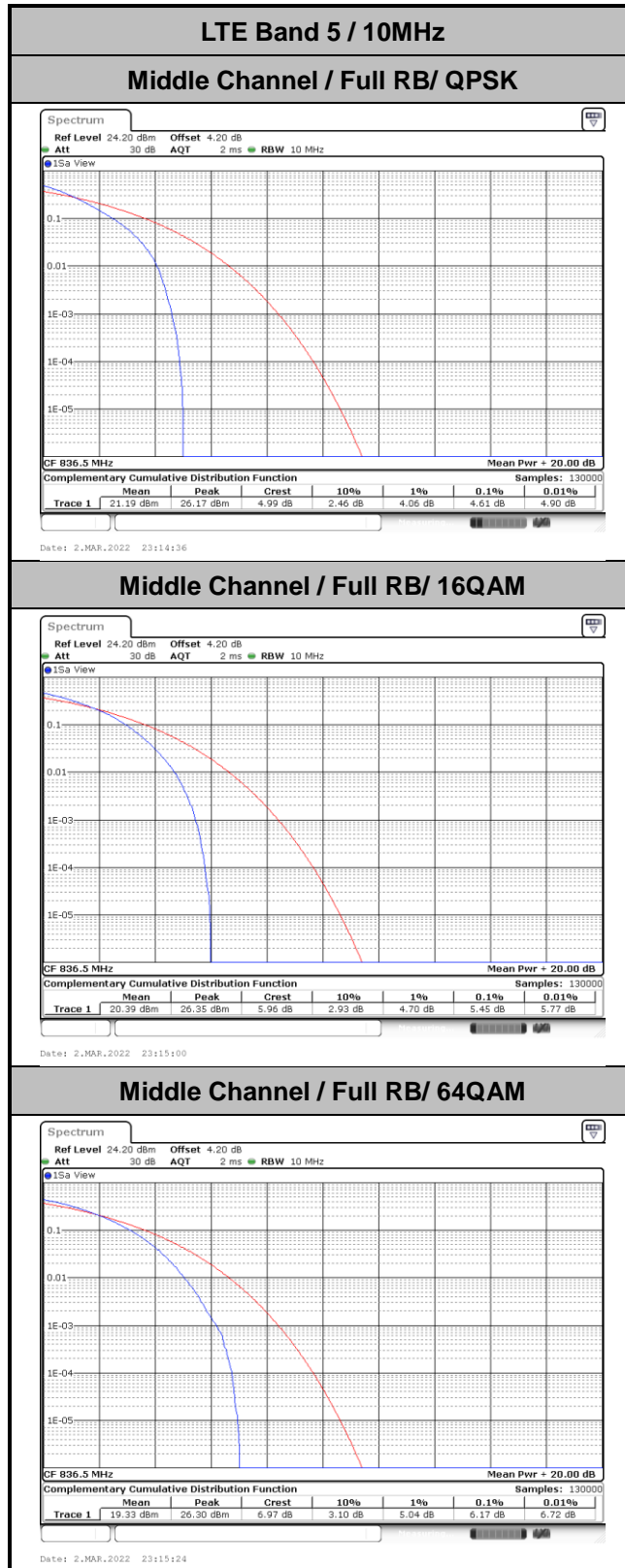
1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.5 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 5

Peak-to-Average Ratio

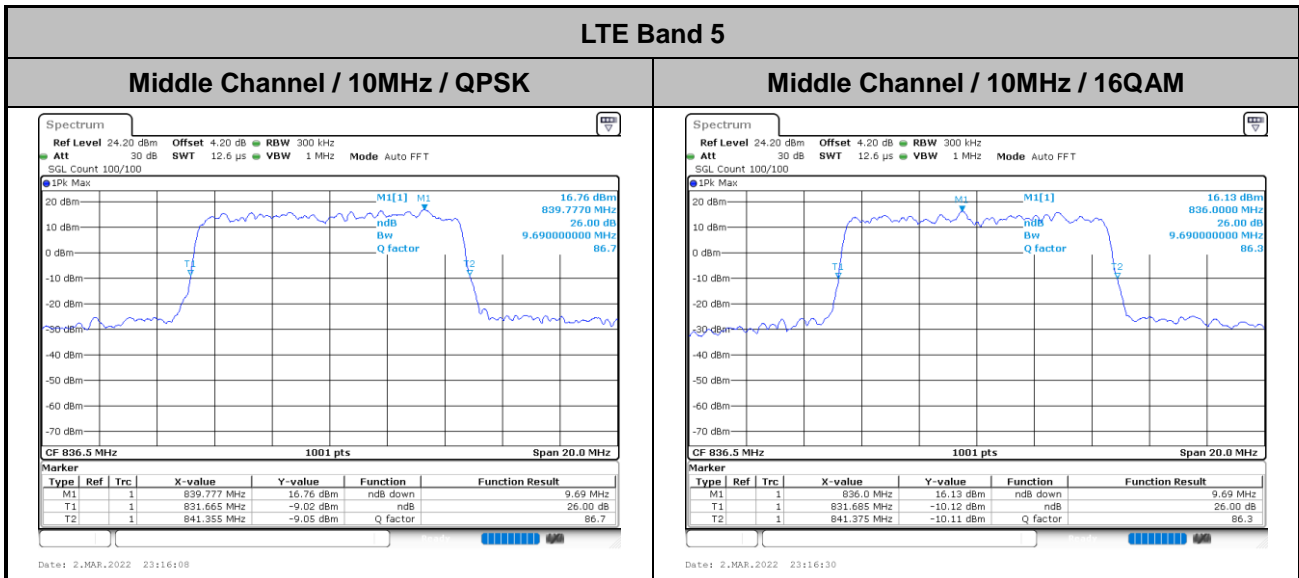
Mode	LTE Band 5 / 10MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	4.61	5.45	6.17	PASS





26dB Bandwidth

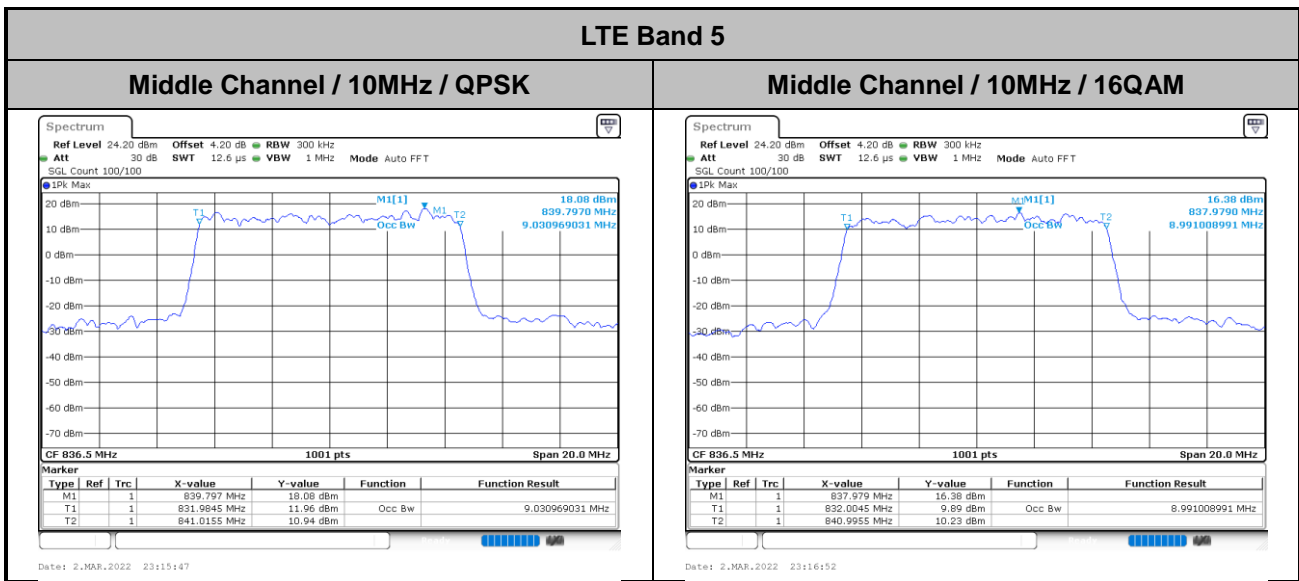
Mode	LTE Band 5 : 26dB BW(MHz)	
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.69	9.69





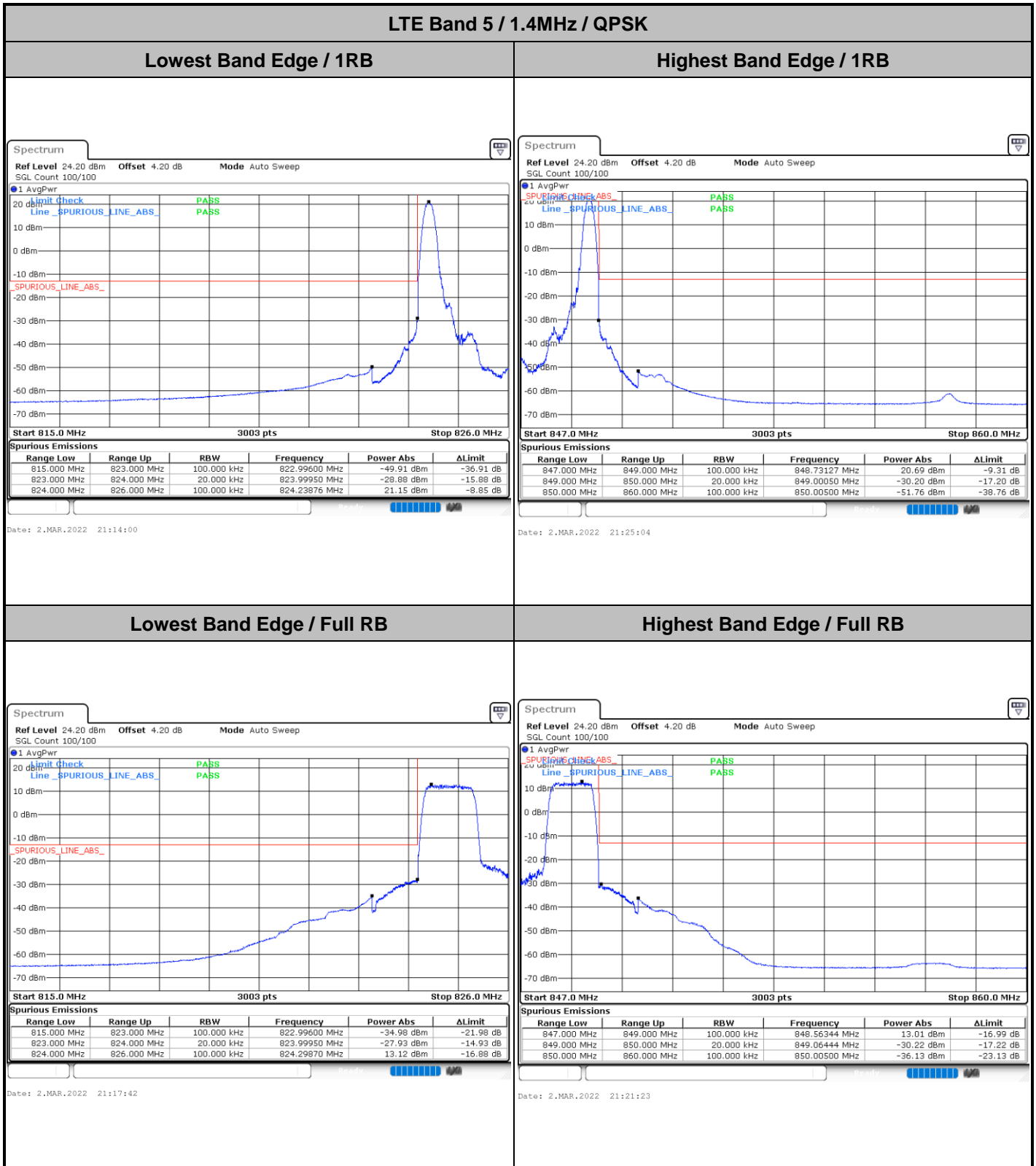
Occupied Bandwidth

Mode	LTE Band 5 : 99%OBW(MHz)	
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.03	8.99





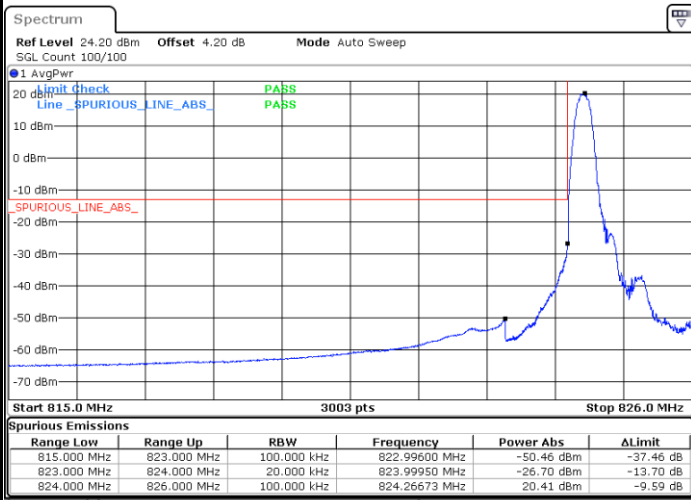
Conducted Band Edge





LTE Band 5 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



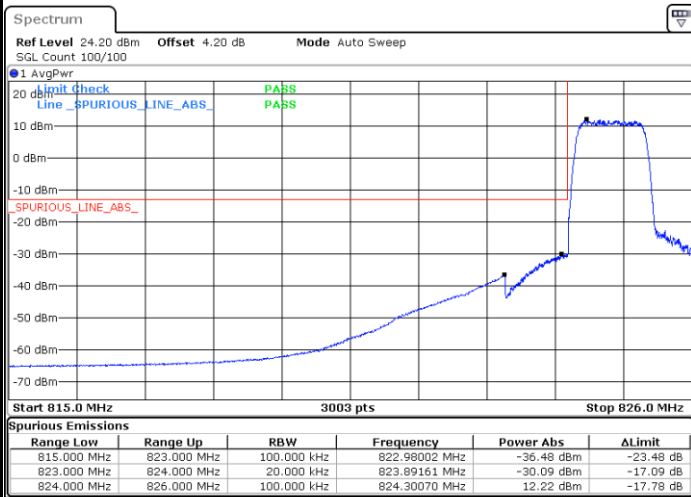
Date: 2.MAR.2022 21:15:51

Highest Band Edge / 1 RB



Date: 2.MAR.2022 21:26:55

Lowest Band Edge / Full RB



Date: 2.MAR.2022 21:19:33

Highest Band Edge / Full RB

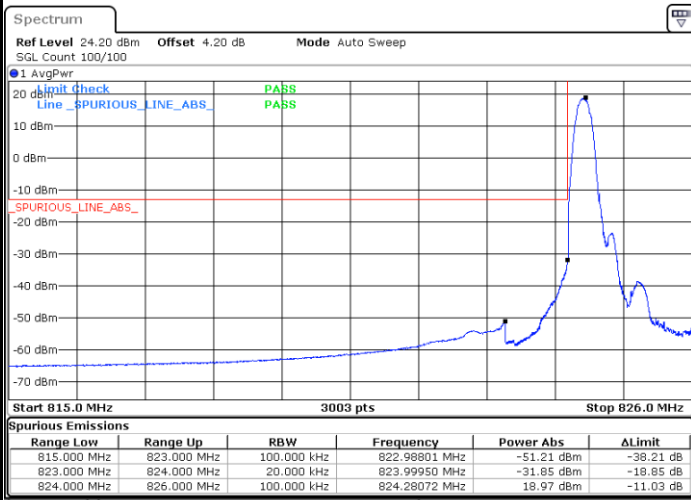


Date: 2.MAR.2022 21:23:13



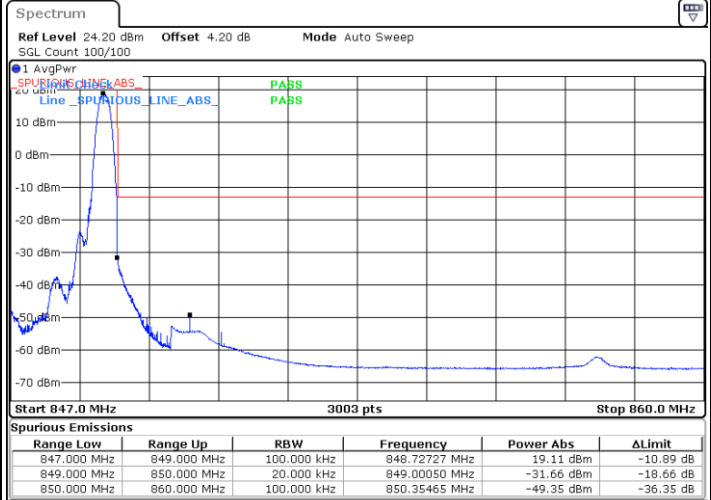
LTE Band 5 / 1.4MHz / 64QAM

Lowest Band Edge / 1 RB



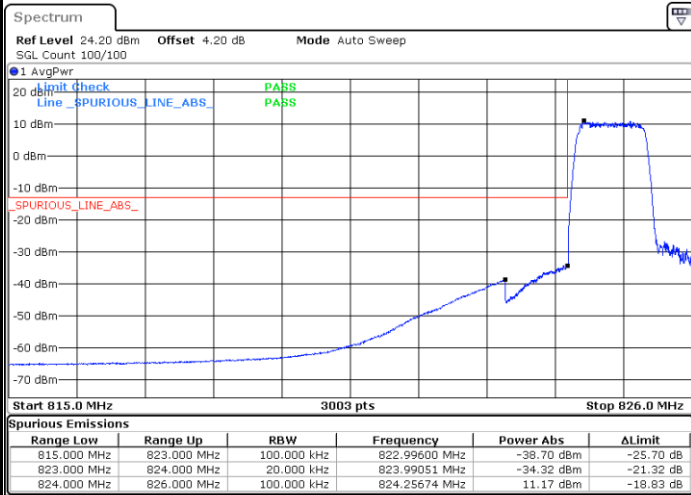
Date: 2.MAR.2022 21:28:46

Highest Band Edge / 1 RB



Date: 2.MAR.2022 21:34:18

Lowest Band Edge / Full RB



Date: 2.MAR.2022 21:30:37

Highest Band Edge / Full RB

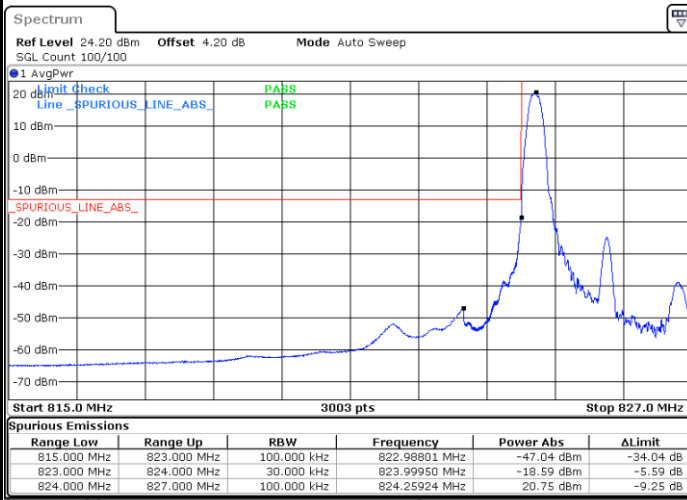


Date: 2.MAR.2022 21:32:27



LTE Band 5 / 3MHz / QPSK

Lowest Band Edge / 1RB



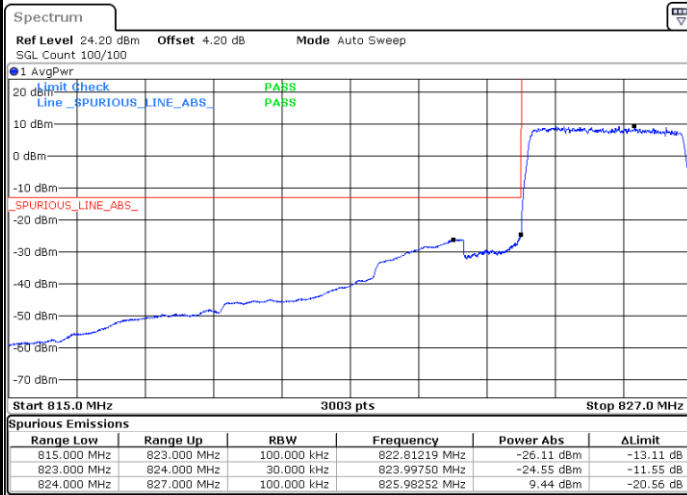
Date: 2.MAR.2022 21:36:10

Highest Band Edge / 1 RB



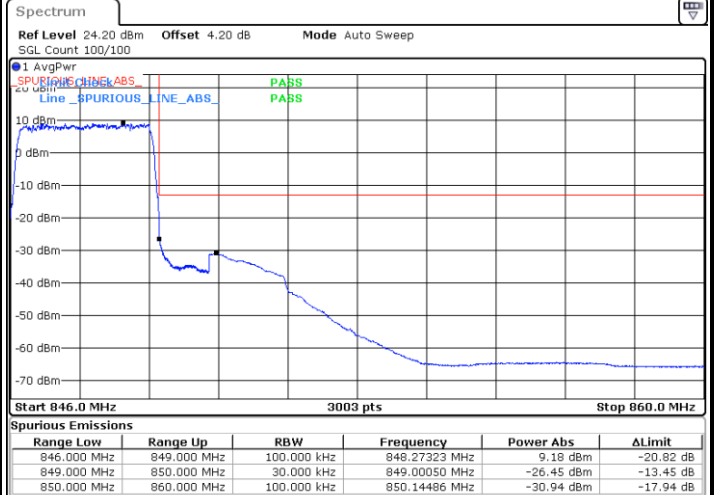
Date: 2.MAR.2022 21:50:56

Lowest Band Edge / Full RB



Date: 2.MAR.2022 21:39:53

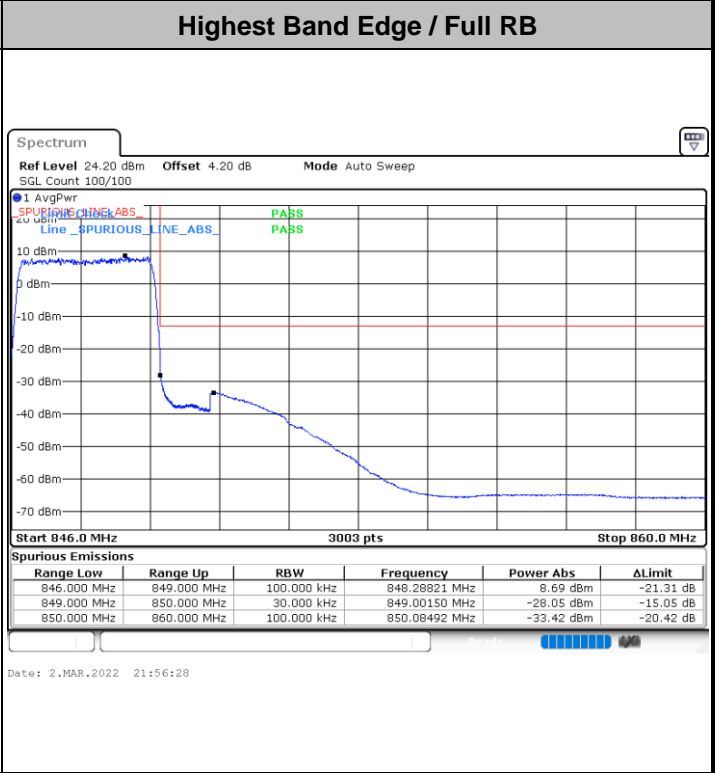
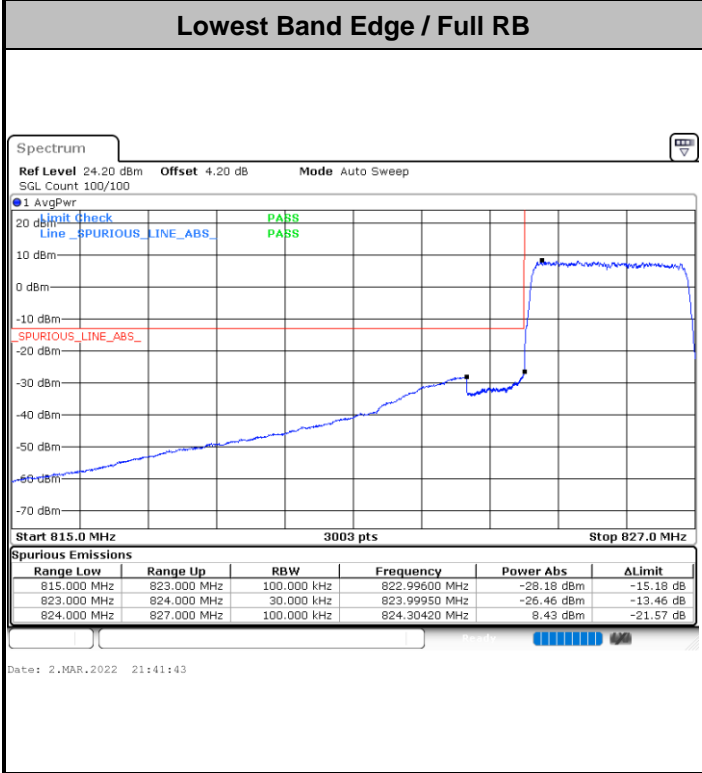
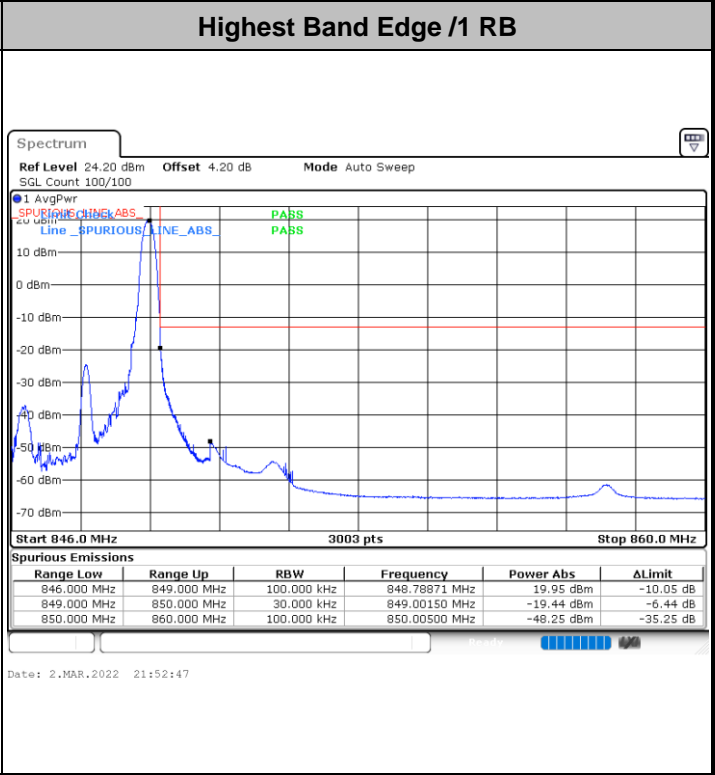
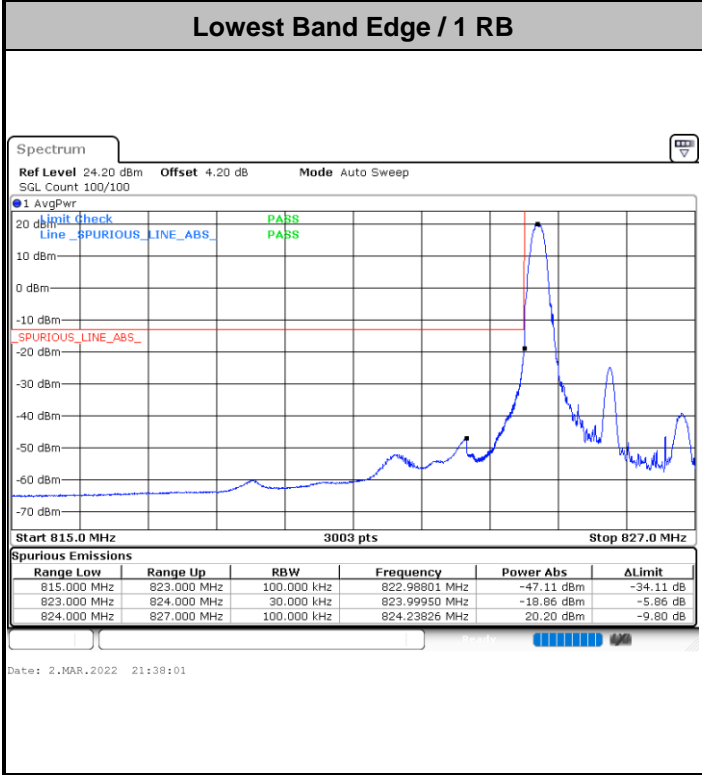
Highest Band Edge / Full RB



Date: 2.MAR.2022 21:54:38



LTE Band 5 / 3MHz / 16QAM

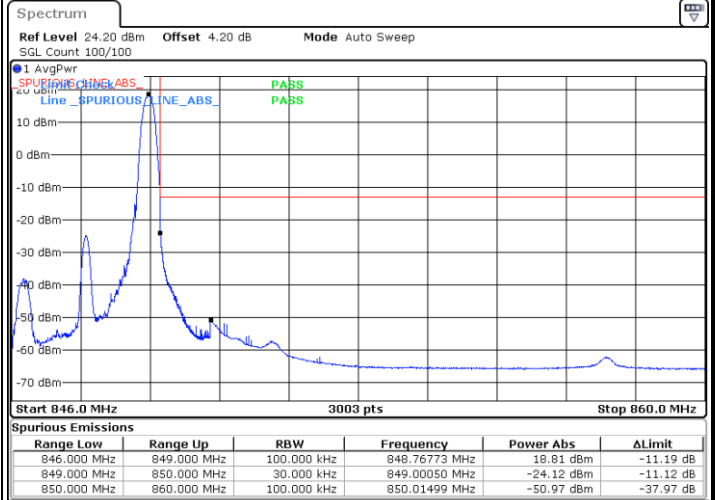
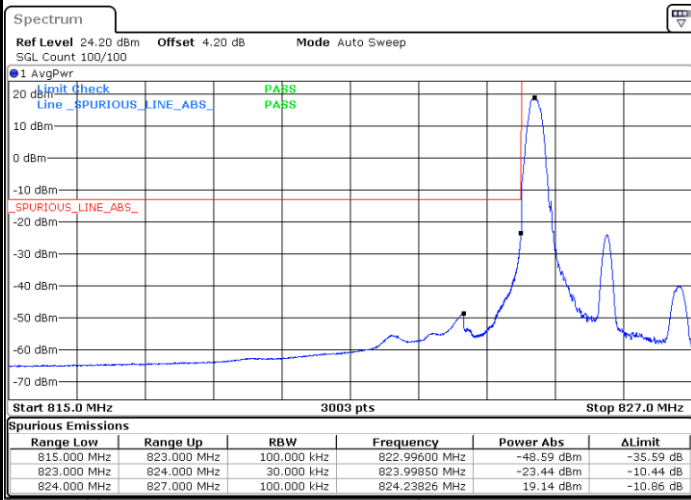




LTE Band 5 / 3MHz / 64QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

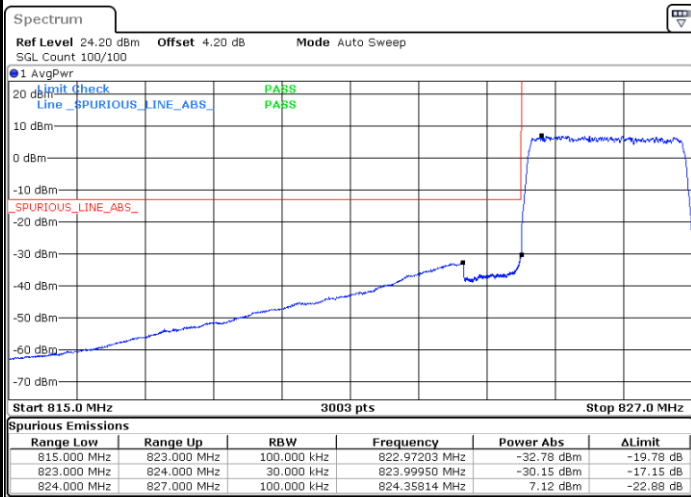


Date: 2.MAR.2022 21:43:34

Date: 2.MAR.2022 21:47:15

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



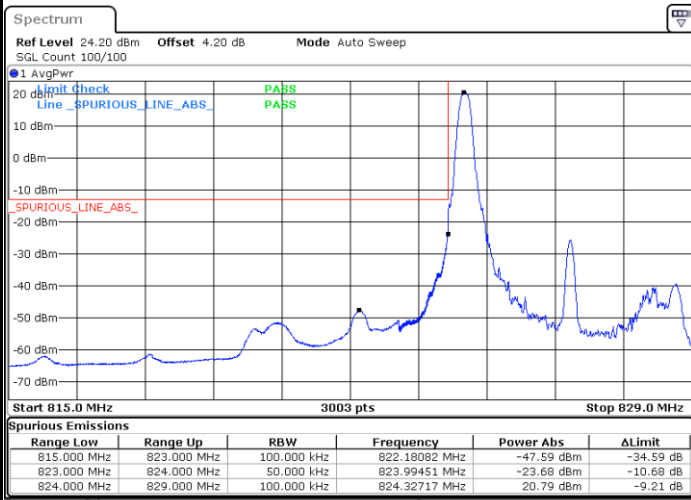
Date: 2.MAR.2022 21:45:25

Date: 2.MAR.2022 21:49:06



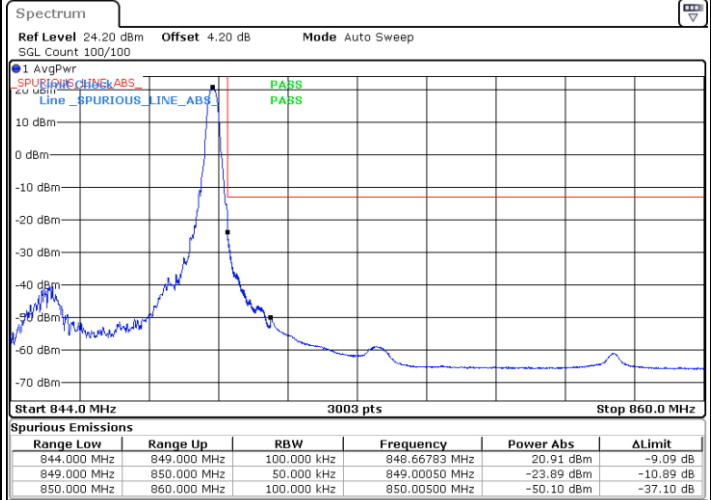
LTE Band 5 / 5MHz / QPSK

Lowest Band Edge / 1 RB



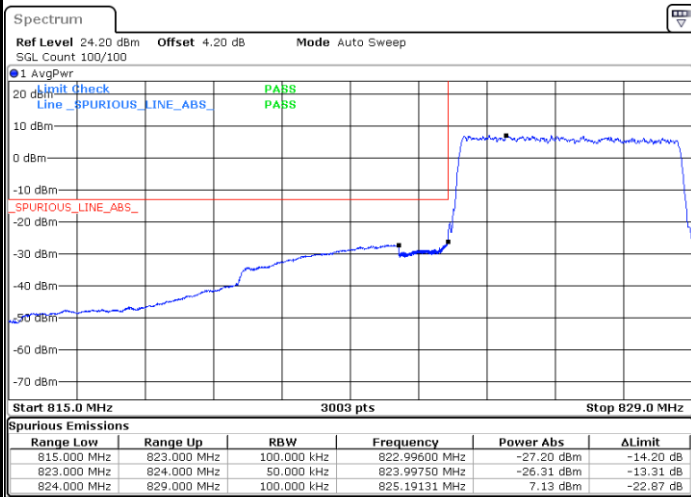
Date: 2.MAR.2022 21:58:20

Highest Band Edge / 1 RB



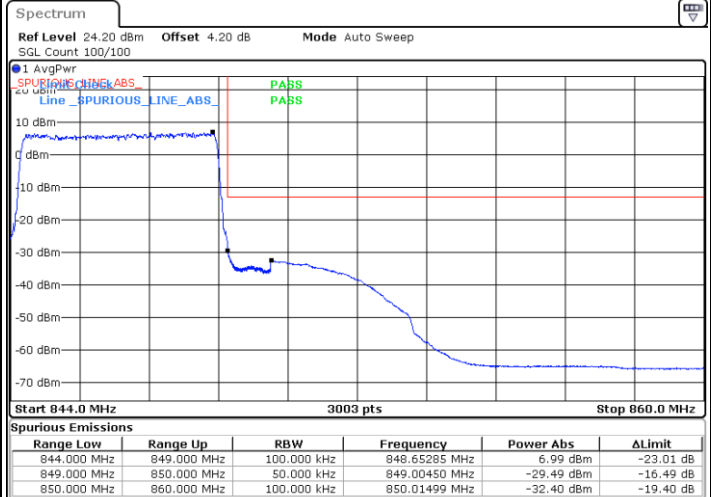
Date: 2.MAR.2022 22:13:05

Lowest Band Edge / Full RB



Date: 2.MAR.2022 22:02:02

Highest Band Edge / Full RB

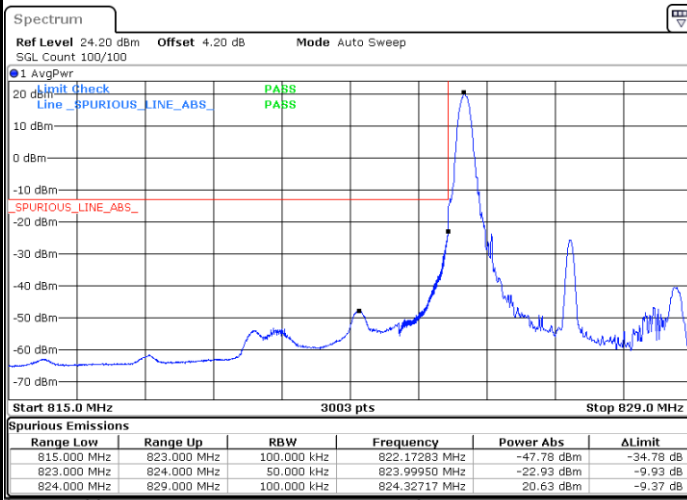


Date: 2.MAR.2022 22:16:46



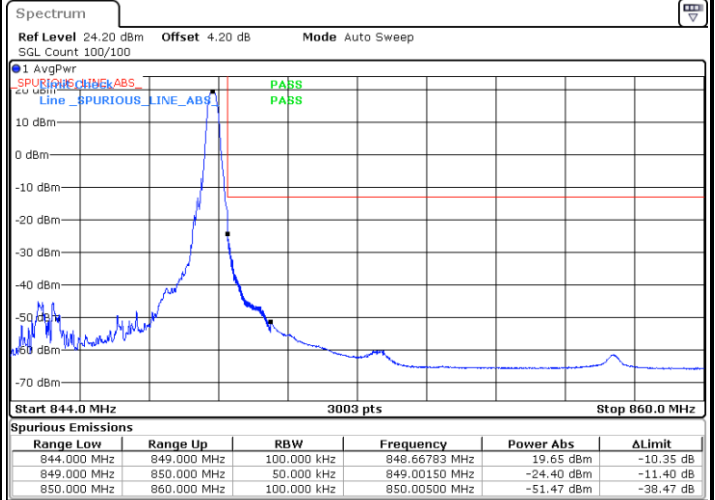
LTE Band 5 / 5MHz / 16QAM

Lowest Band Edge / 1RB



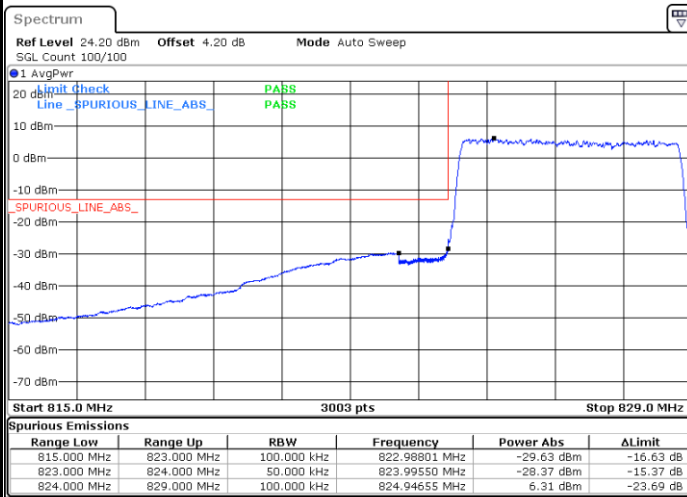
Date: 2.MAR.2022 22:00:11

Highest Band Edge / 1 RB



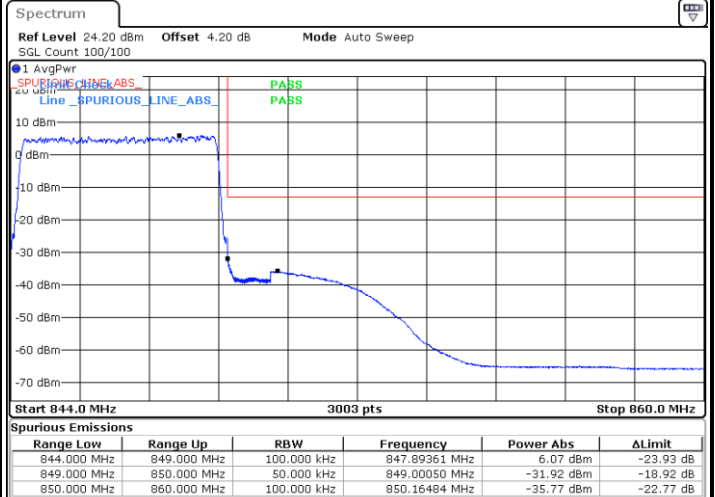
Date: 2.MAR.2022 22:14:56

Lowest Band Edge / Full RB



Date: 2.MAR.2022 22:03:52

Highest Band Edge / Full RB

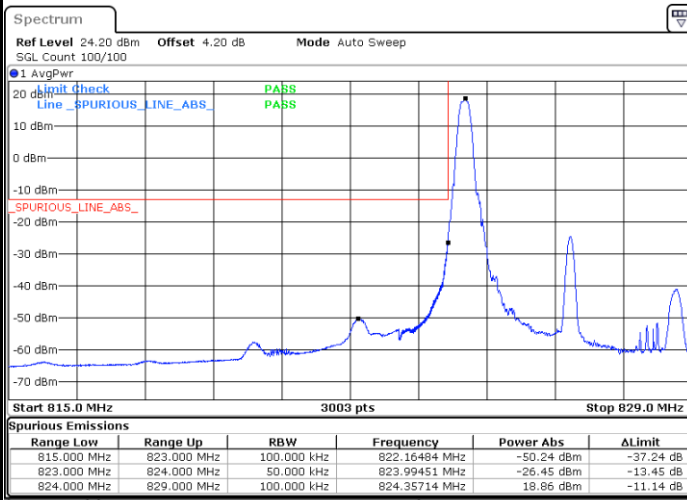


Date: 2.MAR.2022 22:18:38

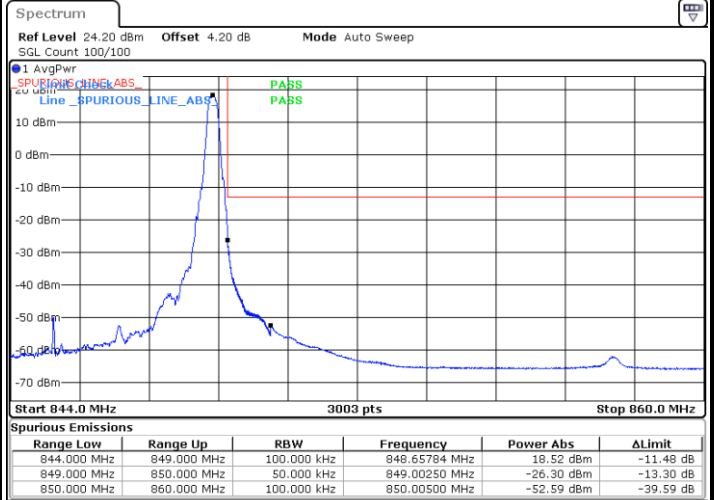


LTE Band 5 / 5MHz / 64QAM

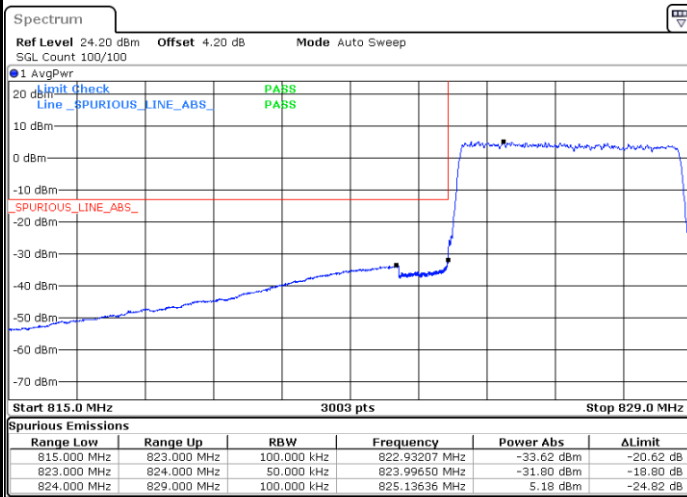
Lowest Band Edge / 1RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

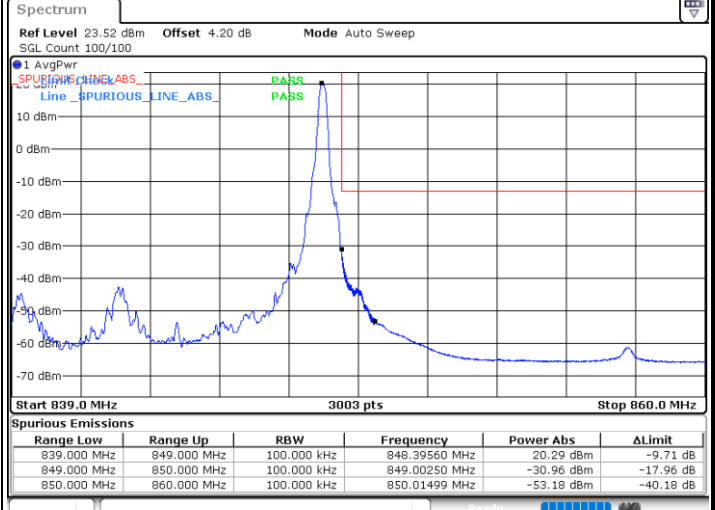
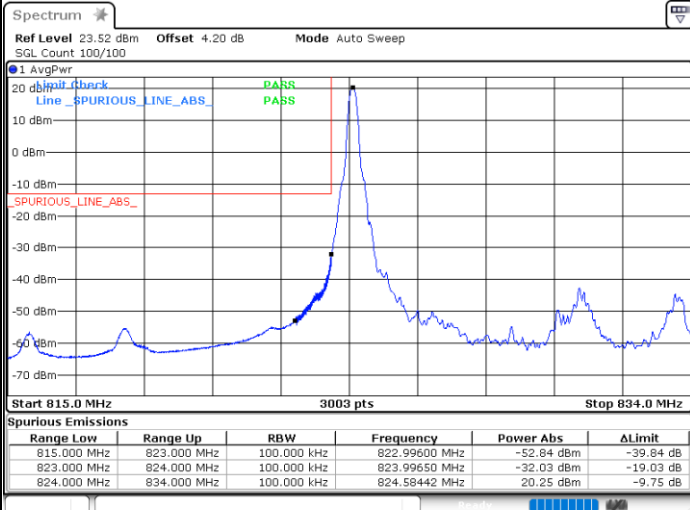




LTE Band 5 / 10MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

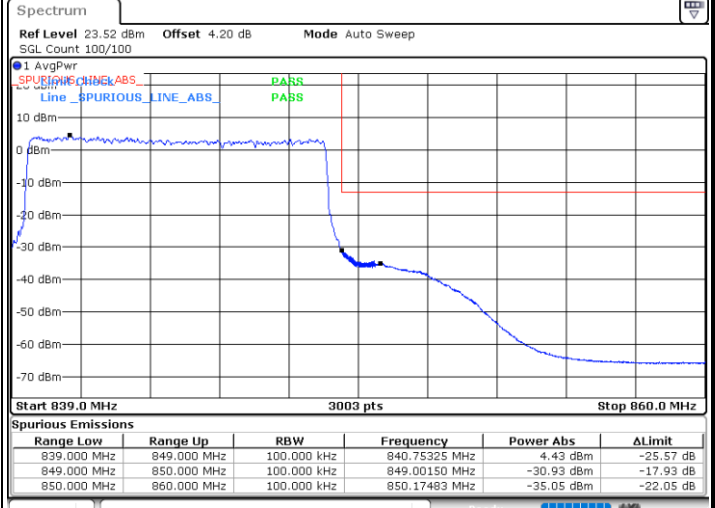
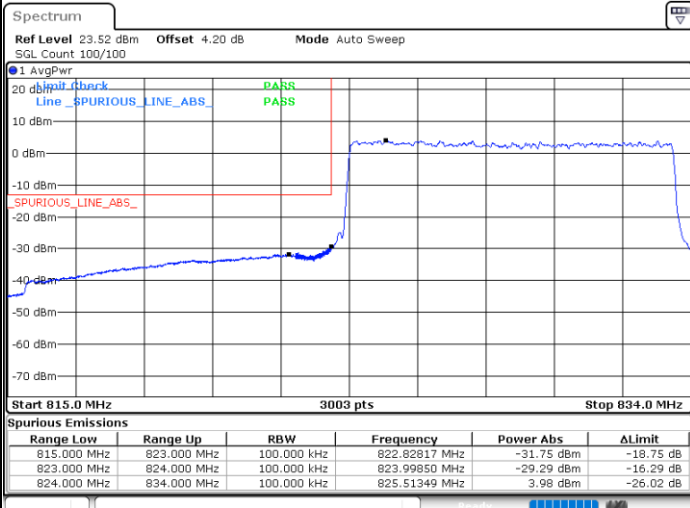


Date: 2.MAR.2022 22:36:06

Date: 2.MAR.2022 22:43:31

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



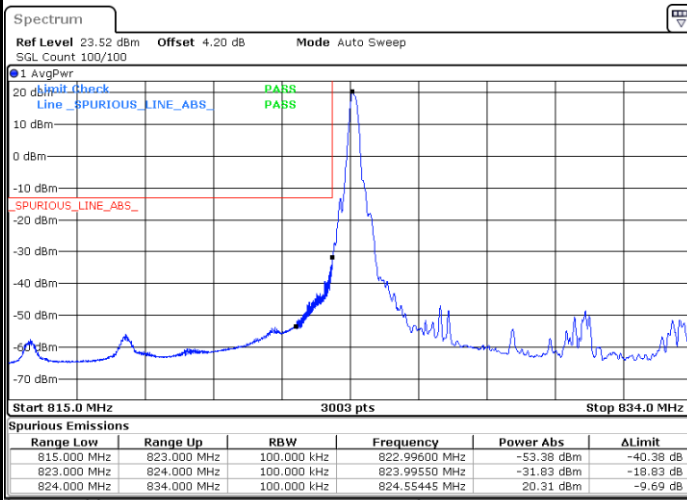
Date: 2.MAR.2022 22:39:49

Date: 2.MAR.2022 22:47:13



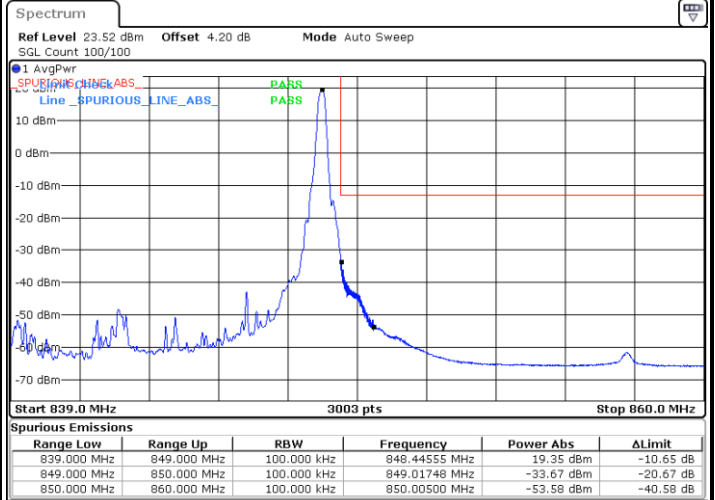
LTE Band 5 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



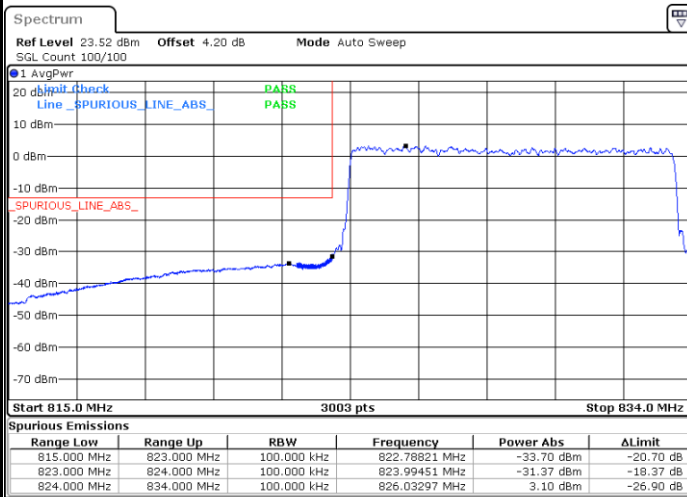
Date: 2.MAR.2022 22:37:57

Highest Band Edge / 1 RB



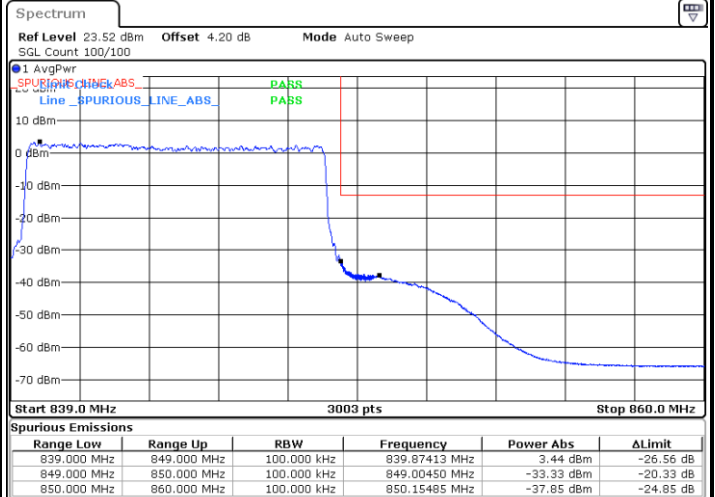
Date: 2.MAR.2022 22:45:22

Lowest Band Edge / Full RB



Date: 2.MAR.2022 22:41:41

Highest Band Edge / Full RB

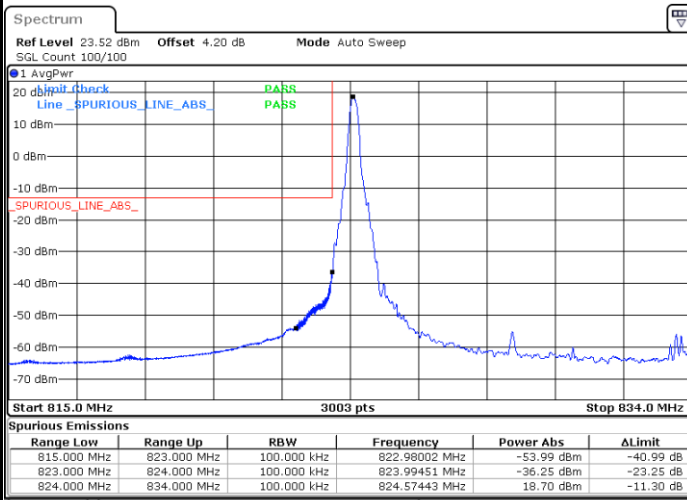


Date: 2.MAR.2022 22:49:03



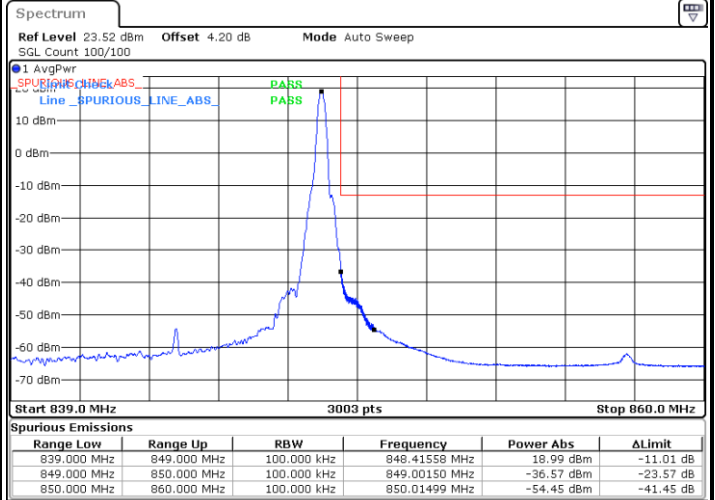
LTE Band 5 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



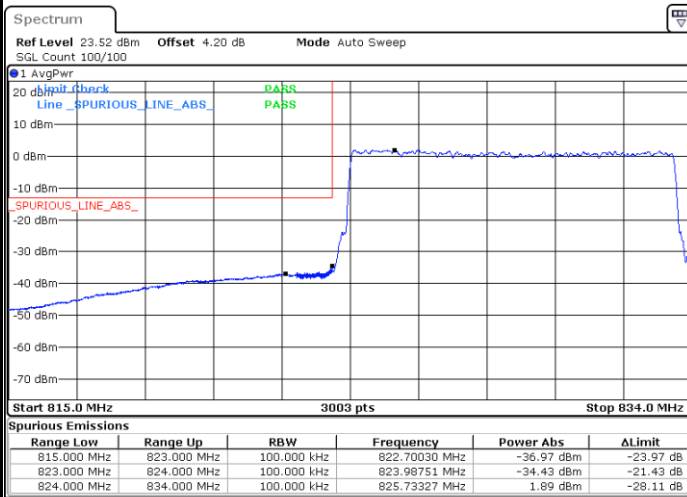
Date: 2.MAR.2022 22:50:54

Highest Band Edge / 1 RB



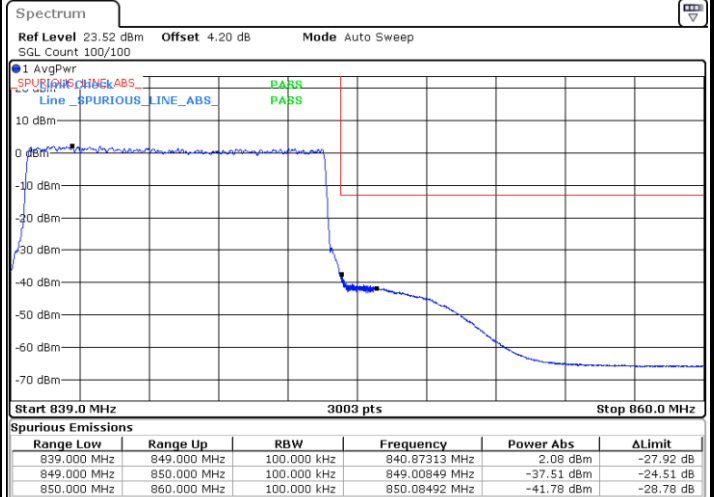
Date: 2.MAR.2022 22:54:35

Lowest Band Edge / Full RB



Date: 2.MAR.2022 22:52:45

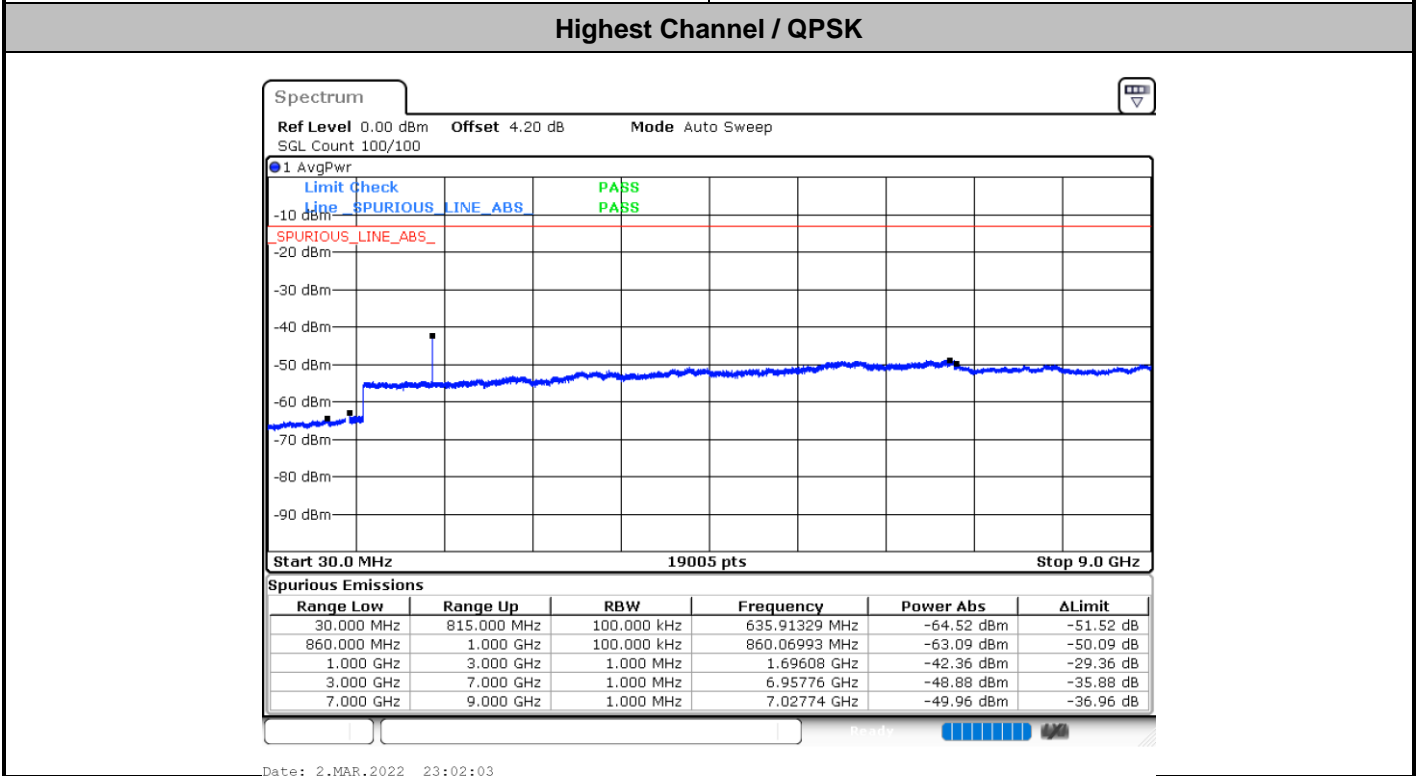
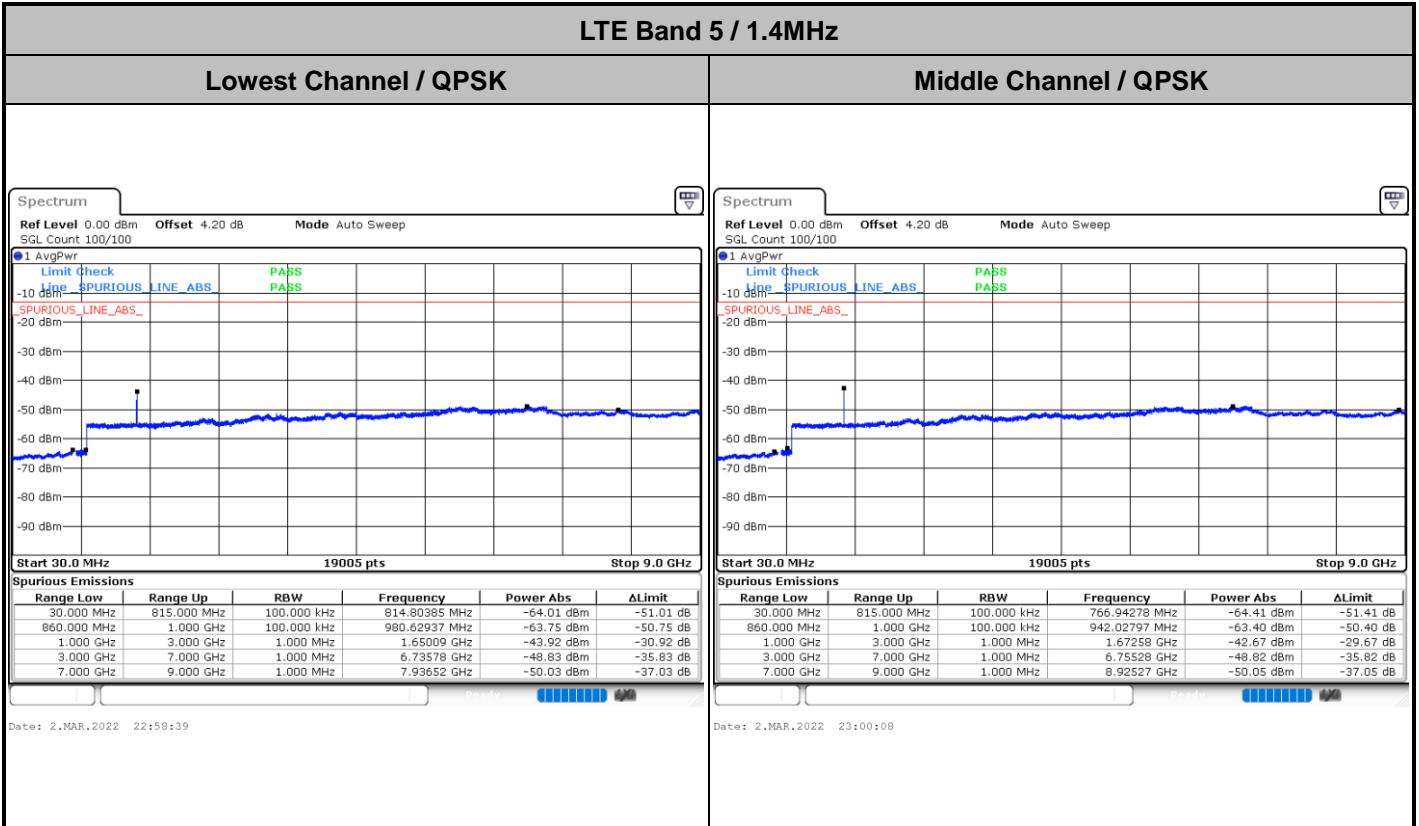
Highest Band Edge / Full RB



Date: 2.MAR.2022 22:56:26



Conducted Spurious Emission

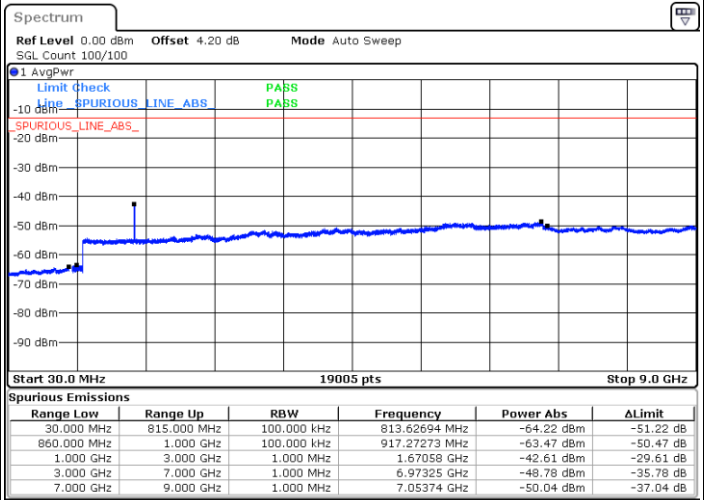
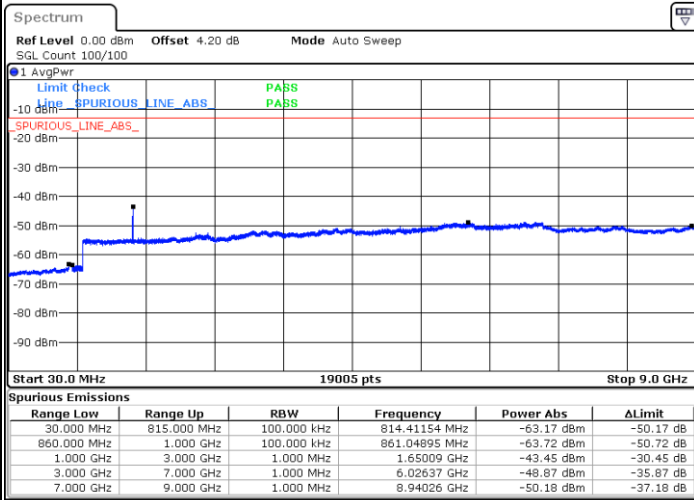




LTE Band 5 / 3MHz

Lowest Channel / QPSK

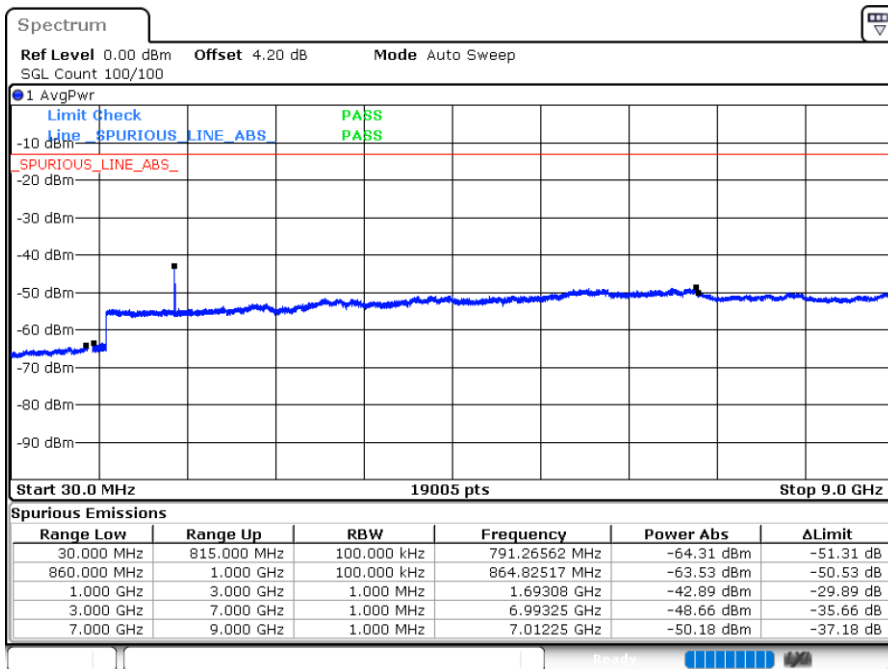
Middle Channel / QPSK



Date: 2.MAR.2022 23:03:25

Date: 2.MAR.2022 23:04:45

Highest Channel / QPSK



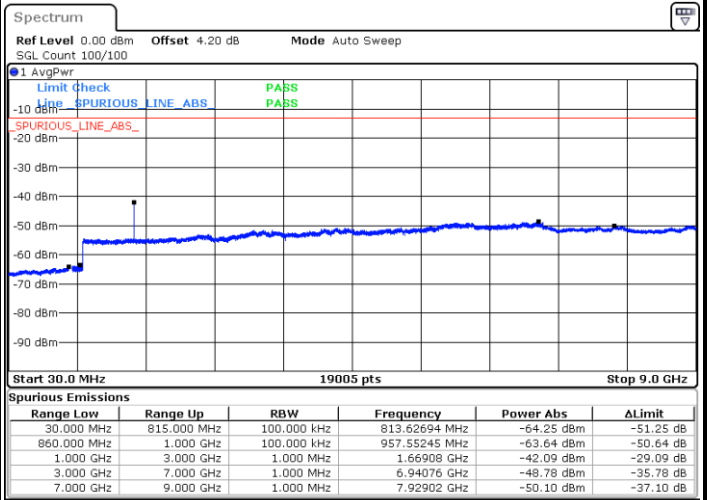
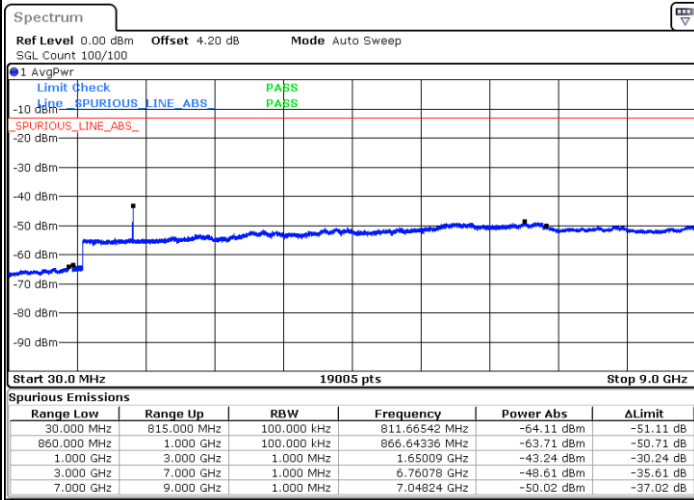
Date: 2.MAR.2022 23:06:06



LTE Band 5 / 5MHz

Lowest Channel / QPSK

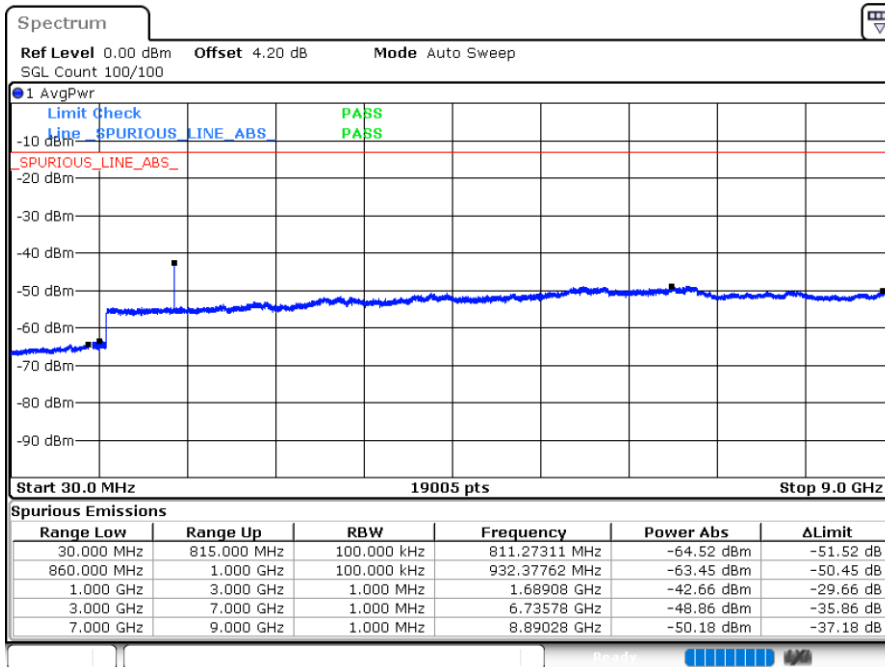
Middle Channel / QPSK



Date: 2.MAR.2022 23:07:28

Date: 2.MAR.2022 23:08:49

Highest Channel / QPSK

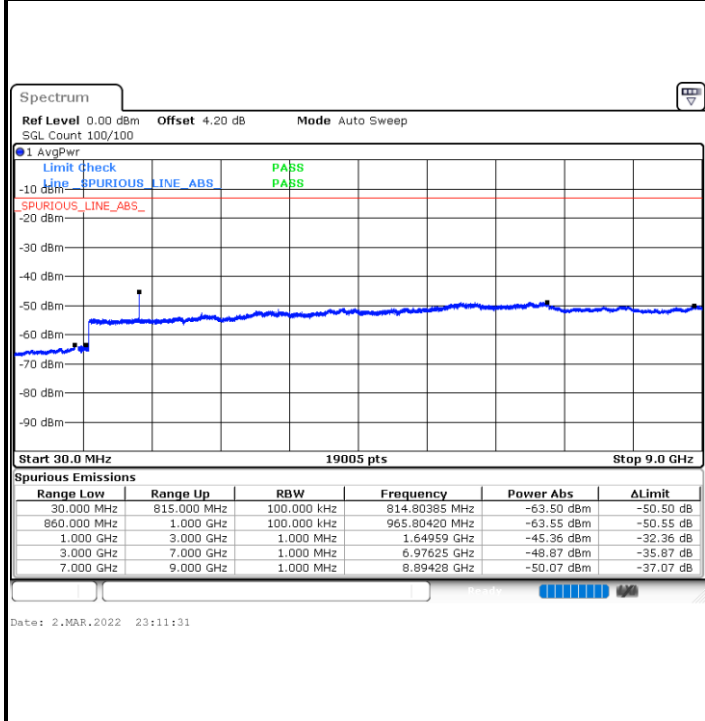


Date: 2.MAR.2022 23:10:10

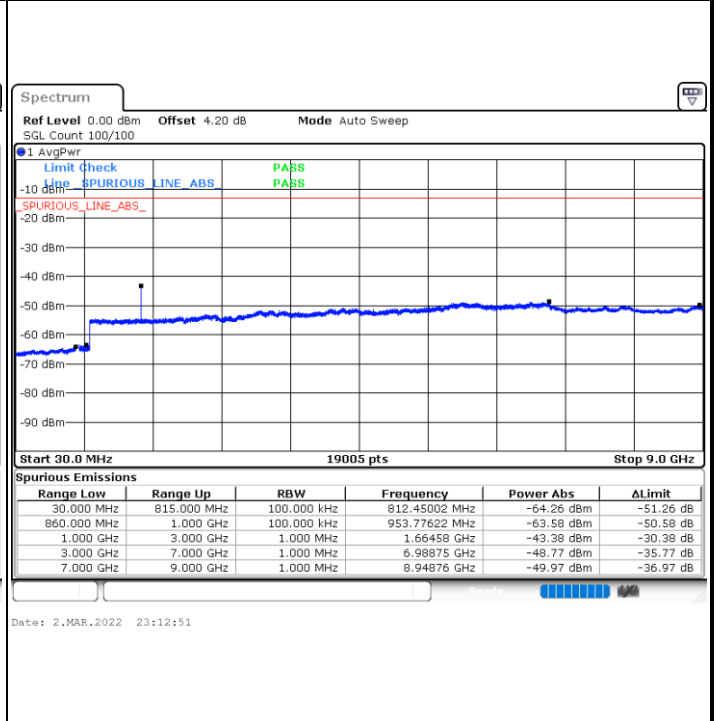


LTE Band 5 / 10MHz

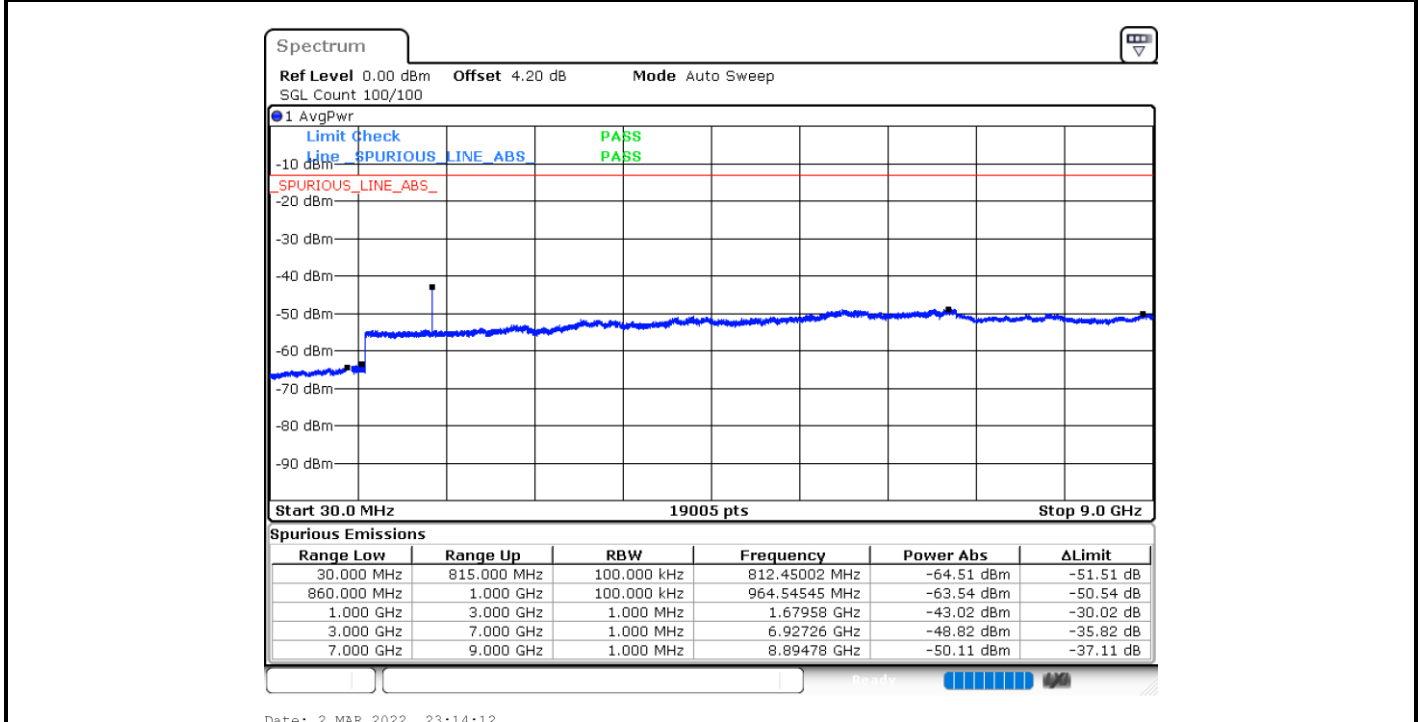
Lowest Channel / QPSK



Middle Channel / QPSK



Highest Channel / QPSK





Frequency Stability

Test Conditions		LTE Band 5 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0012	PASS
40	Normal Voltage	0.0026	
30	Normal Voltage	0.0022	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0002	
0	Normal Voltage	0.0016	
-10	Normal Voltage	0.0023	
-20	Normal Voltage	0.0018	
-30	Normal Voltage	0.0028	
20	Maximum Voltage	0.0009	
20	Normal Voltage	0.0025	
20	Battery End Point	0.0021	

Note:

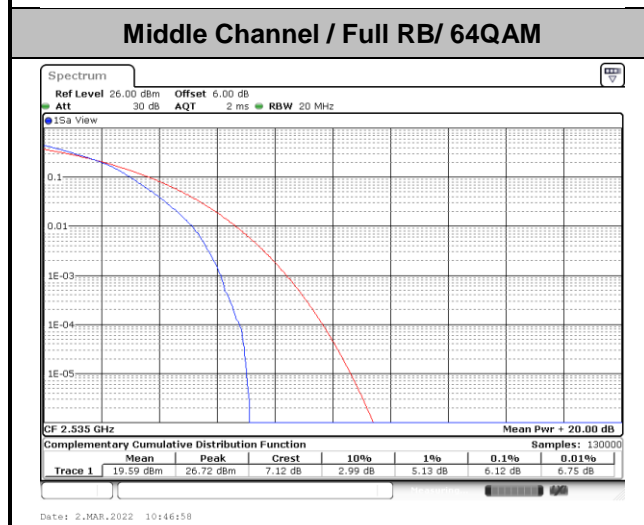
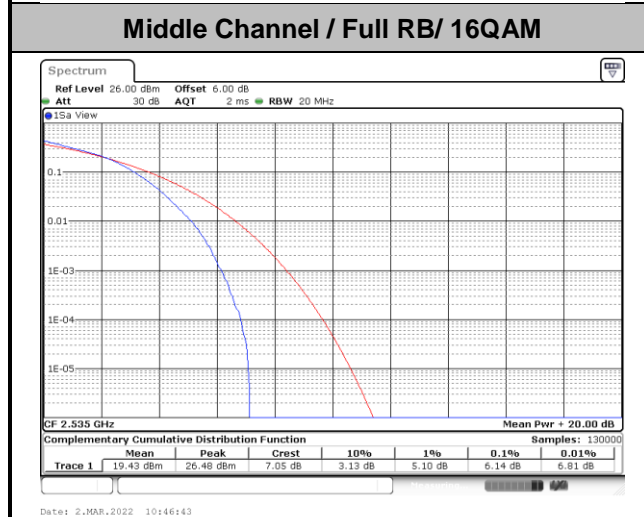
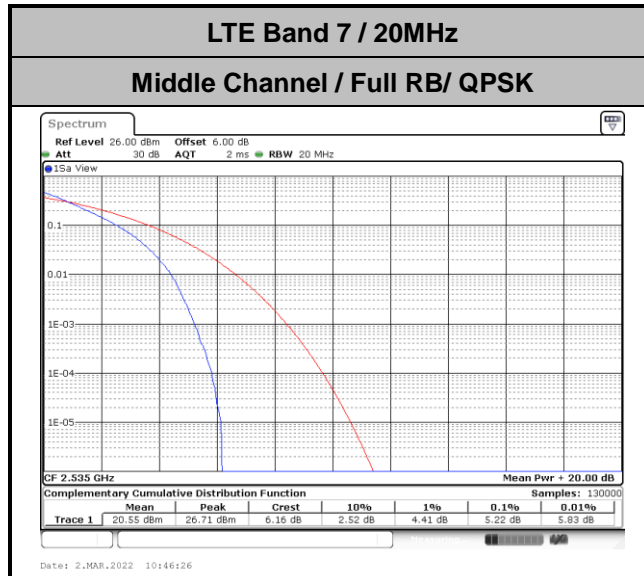
1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.5 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 7

Peak-to-Average Ratio

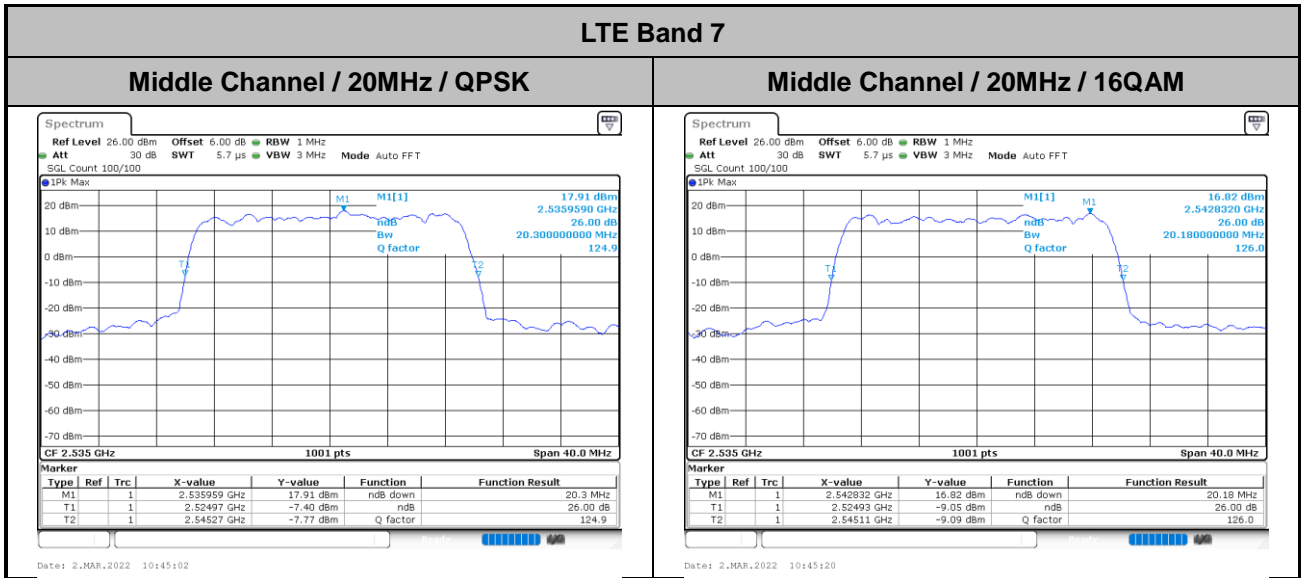
Mode	LTE Band 7 / 20MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	5.22	6.14	6.12	PASS





26dB Bandwidth

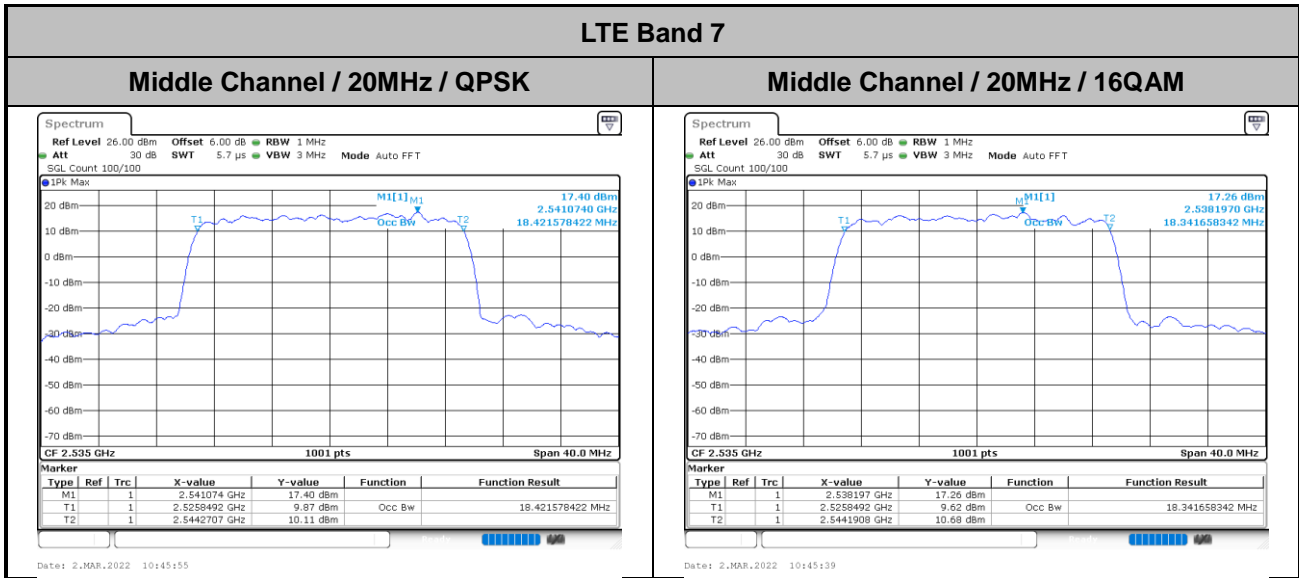
Mode	LTE Band 7 : 26dB BW(MHz)	
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	20.30	20.18





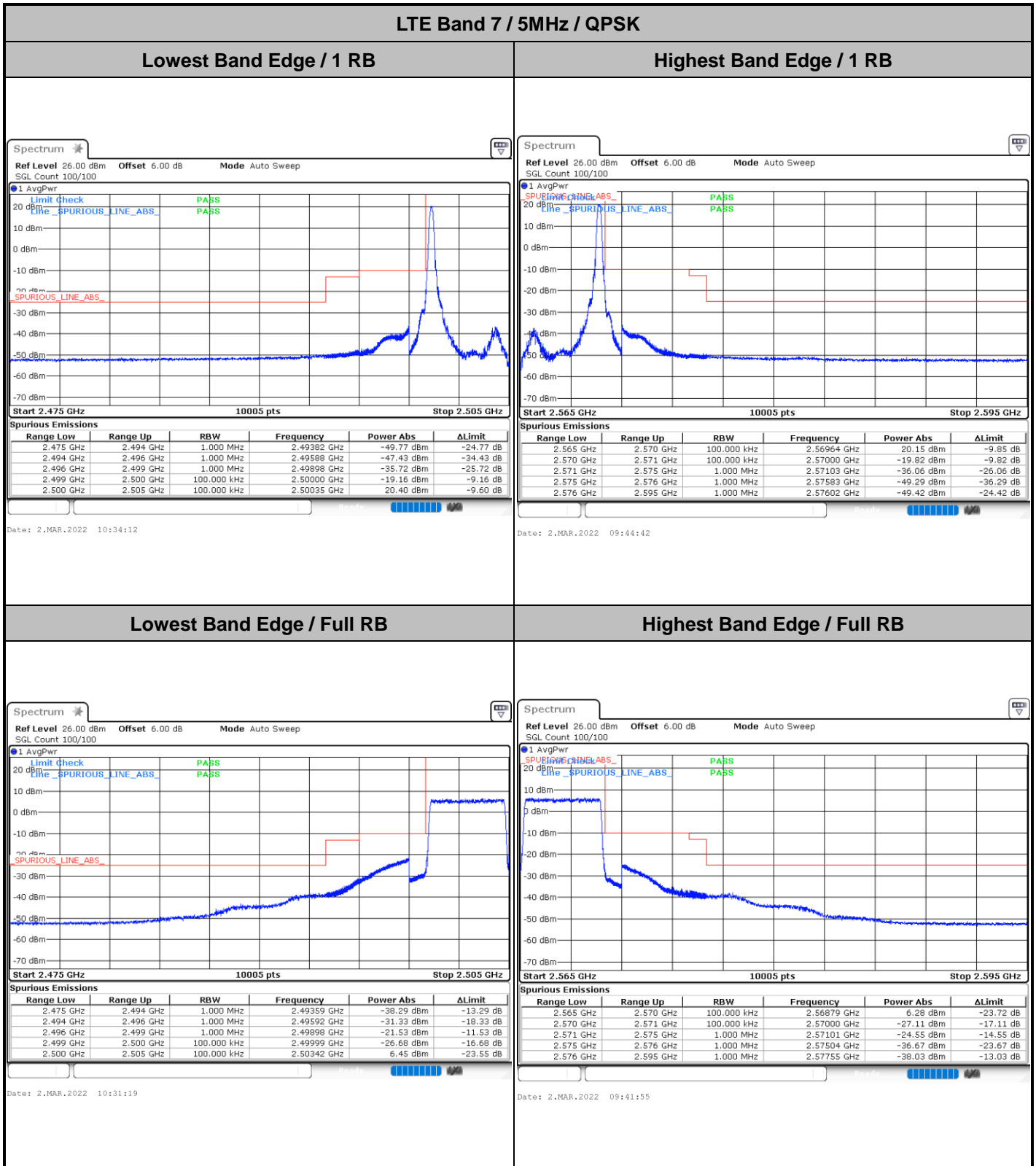
Occupied Bandwidth

Mode	LTE Band 7 : 99%OBW(MHz)	
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	18.42	18.34





Conducted Band Edge

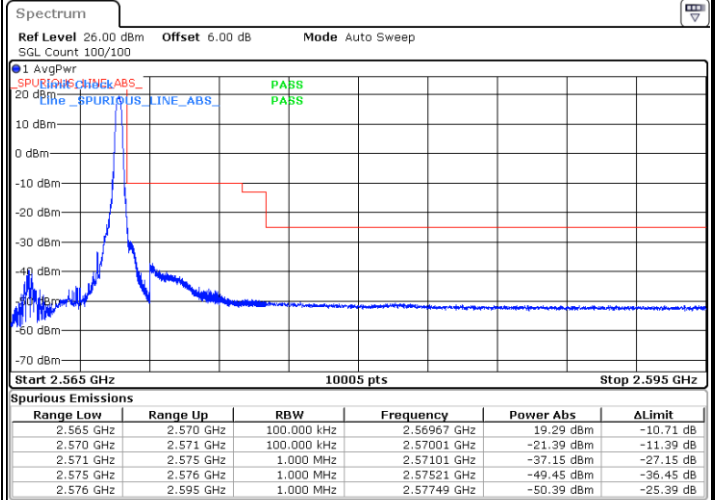
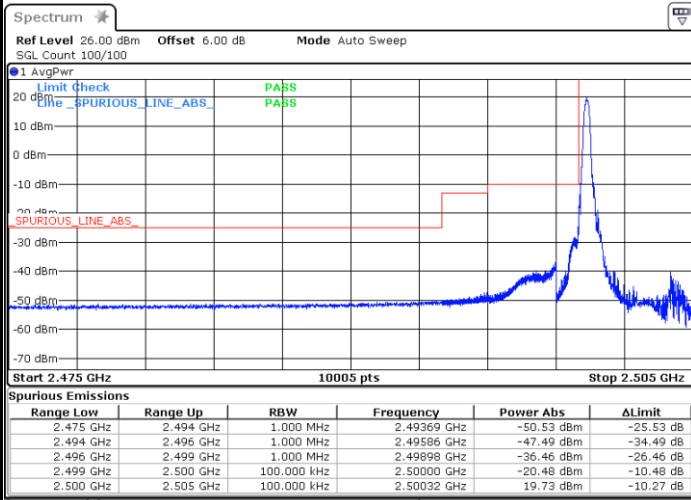




LTE Band 7 / 5MHz / 16QAM

Lowest Band Edge / 1RB

Highest Band Edge / 1 RB

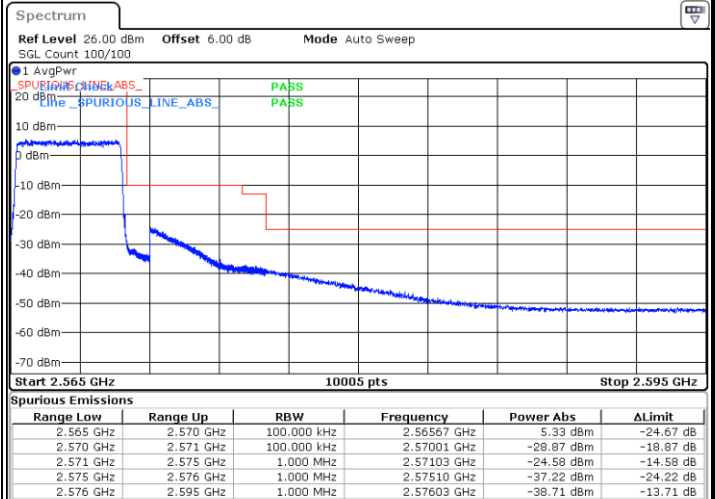
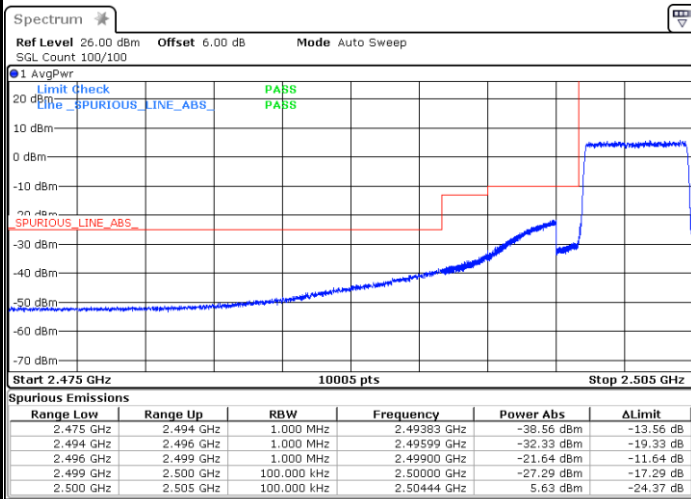


Date: 2.MAR.2022 10:33:38

Date: 2.MAR.2022 09:44:12

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



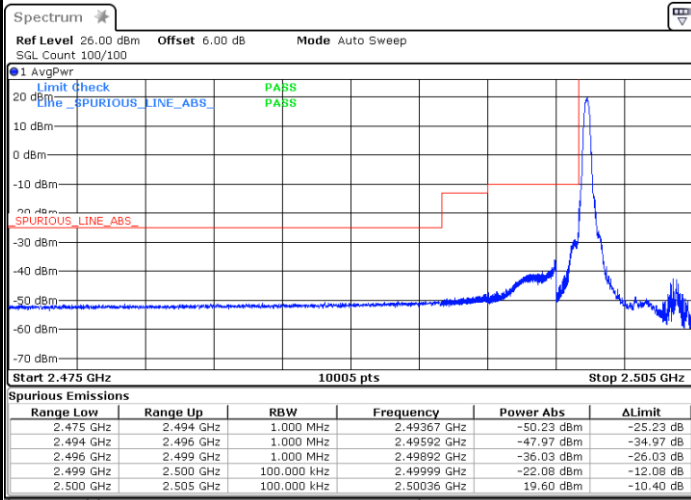
Date: 2.MAR.2022 10:31:48

Date: 2.MAR.2022 09:42:21



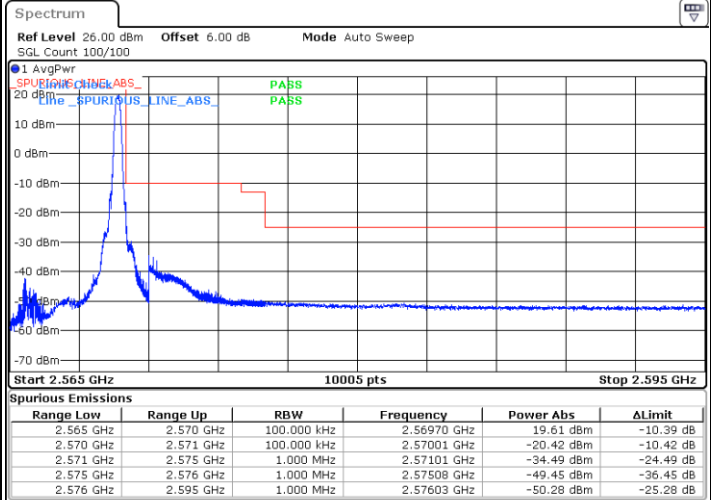
LTE Band 7 / 5MHz / 64QAM

Lowest Band Edge / 1RB



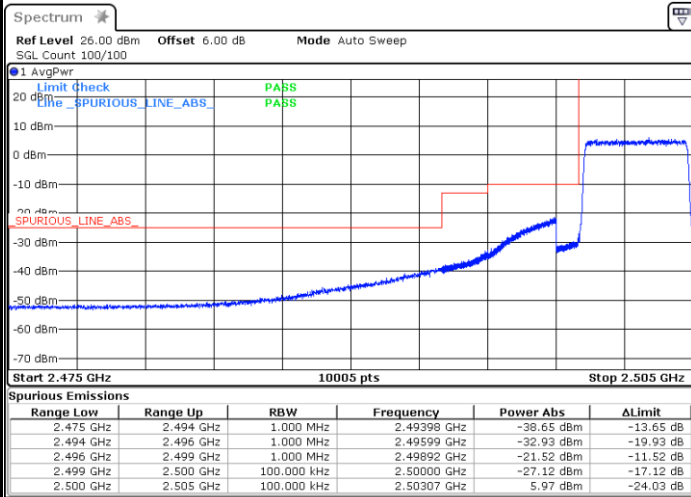
Date: 2.MAR.2022 10:32:46

Highest Band Edge / 1 RB



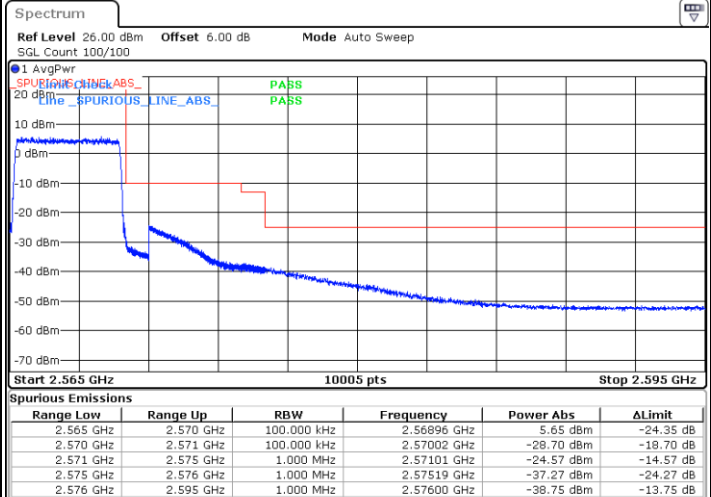
Date: 2.MAR.2022 09:43:40

Lowest Band Edge / Full RB



Date: 2.MAR.2022 10:32:17

Highest Band Edge / Full RB

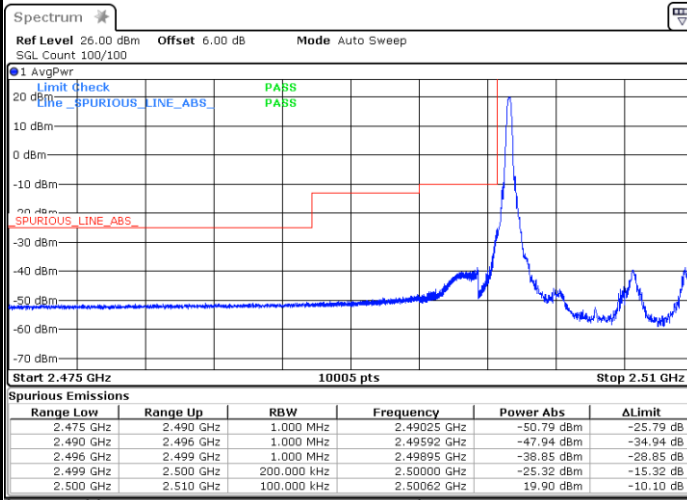


Date: 2.MAR.2022 09:42:51



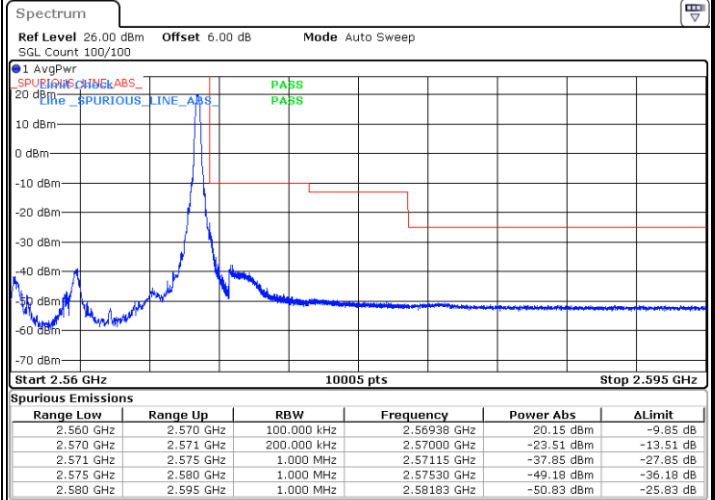
LTE Band 7 / 10MHz / QPSK

Lowest Band Edge / 1 RB



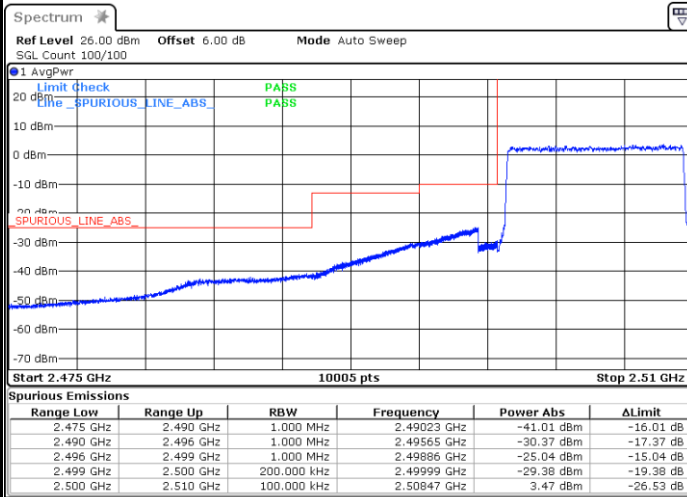
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Highest Band Edge / 1 RB



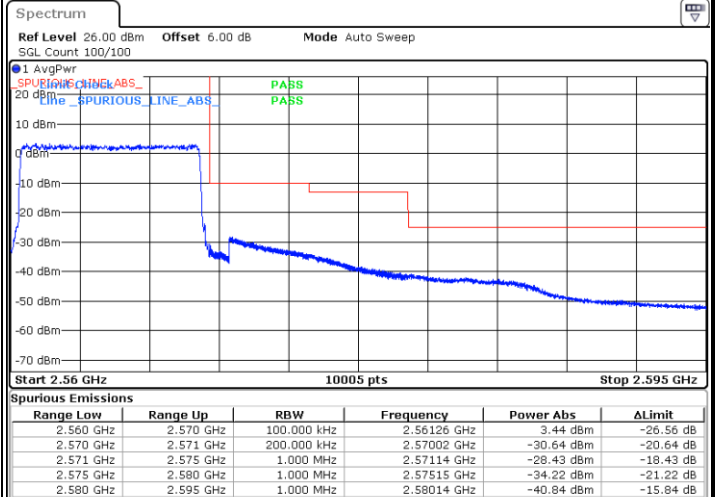
Date: 2.MAR.2022 09:58:38

Lowest Band Edge / Full RB



Date: 2.MAR.2022 10:30:03

Highest Band Edge / Full RB



Date: 2.MAR.2022 09:56:13