

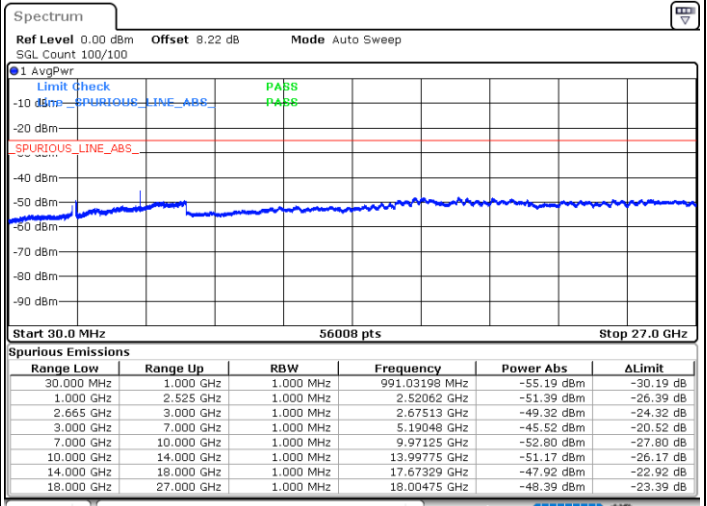
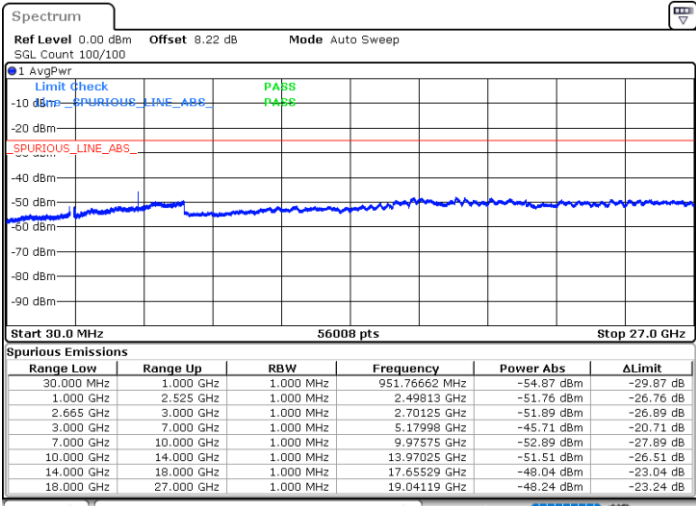


LTE Band 38C / 20MHz+20MHz

QPSK

Lowest Channel / 1RB99 and 1RB0

Middle Channel / 1RB99 and 1RB0

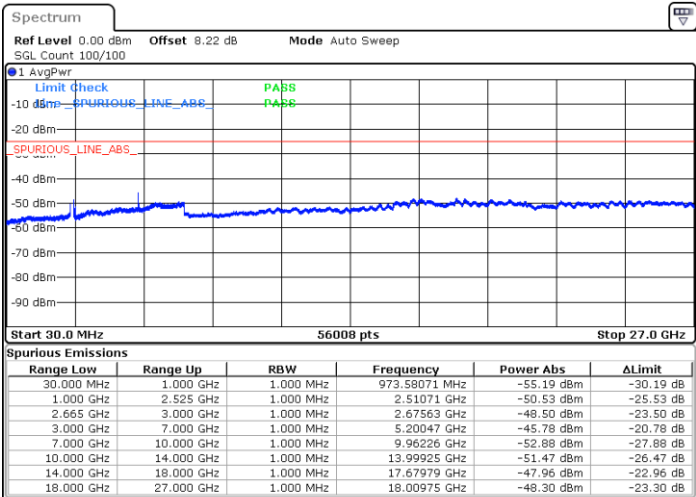


Date: 29.JAN.2022 22:21:42

Date: 29.JAN.2022 22:23:32

Highest Channel / 1RB99 and 1RB0

N/A



Date: 29.JAN.2022 22:25:22



Frequency Stability

Test Conditions		LTE Band 38C (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20+20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0012	PASS
40	Normal Voltage	0.0030	
30	Normal Voltage	0.0002	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0028	
0	Normal Voltage	0.0005	
-10	Normal Voltage	0.0021	
-20	Normal Voltage	0.0002	
-30	Normal Voltage	0.0025	
20	Maximum Voltage	0.0022	
20	Normal Voltage	0.0001	
20	Battery End Point	0.0013	

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.

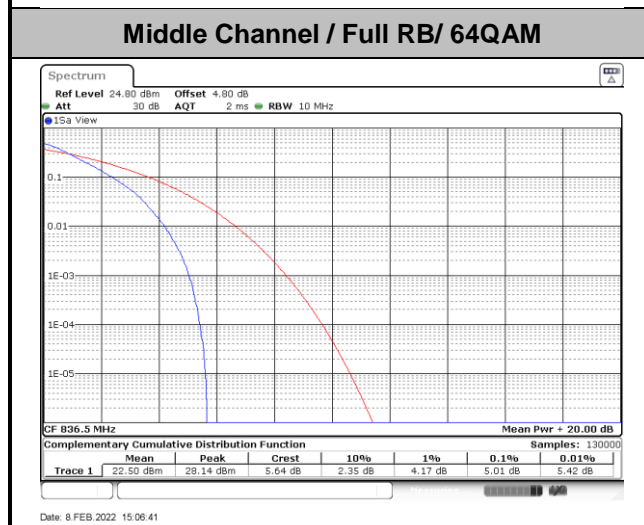
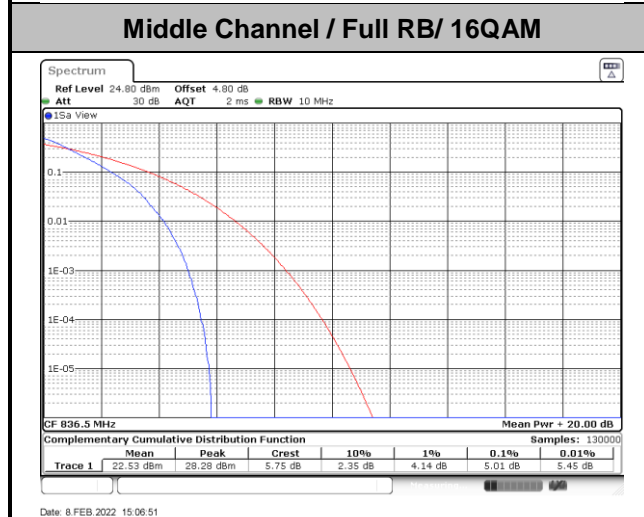
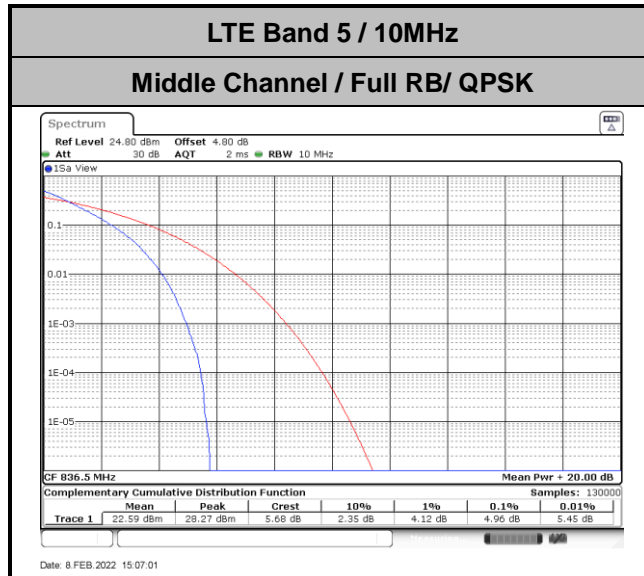


For Other PA:

LTE Band 5

Peak-to-Average Ratio

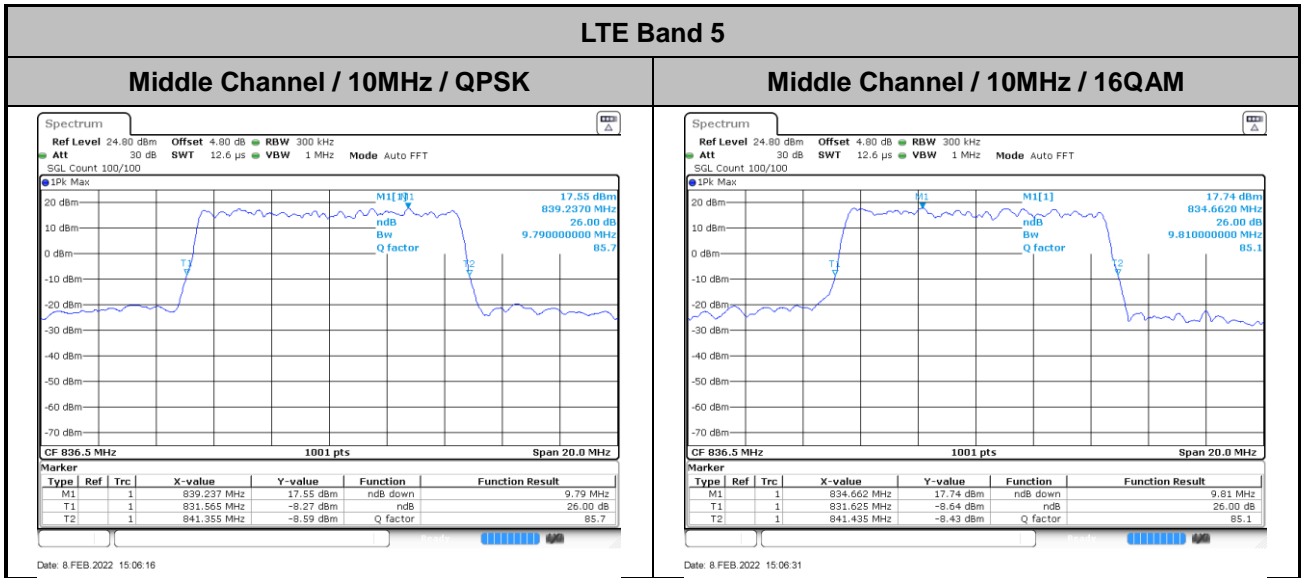
Mode	LTE Band 5 / 10MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	4.96	5.01	5.01	PASS





26dB Bandwidth

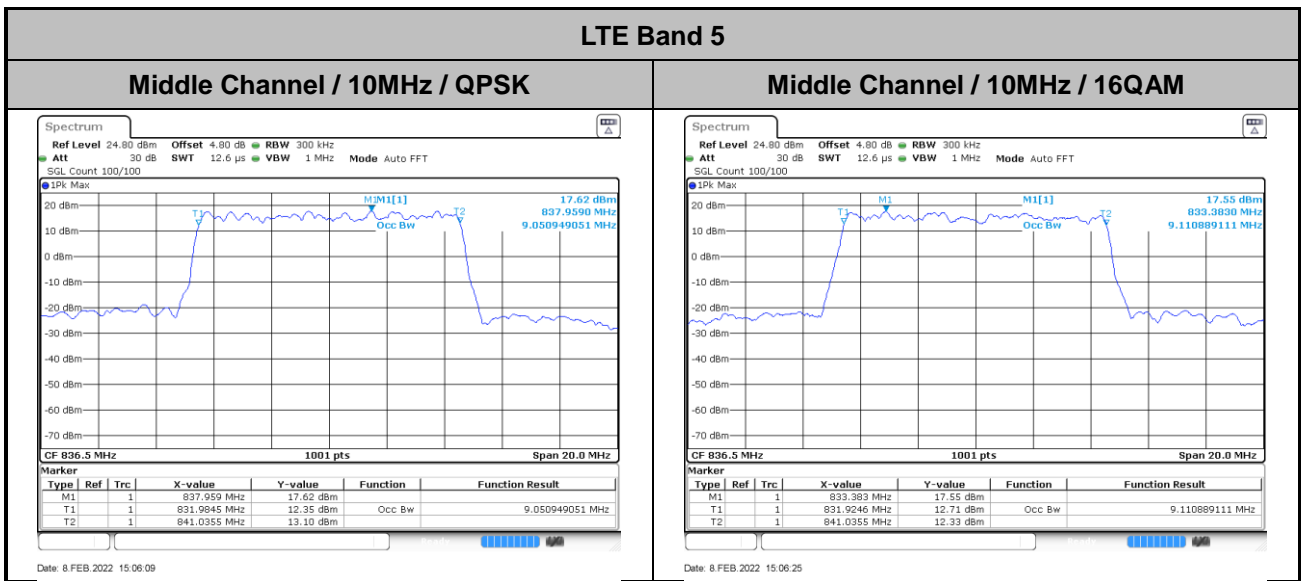
Mode	LTE Band 5 : 26dB BW(MHz)	
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.79	9.81





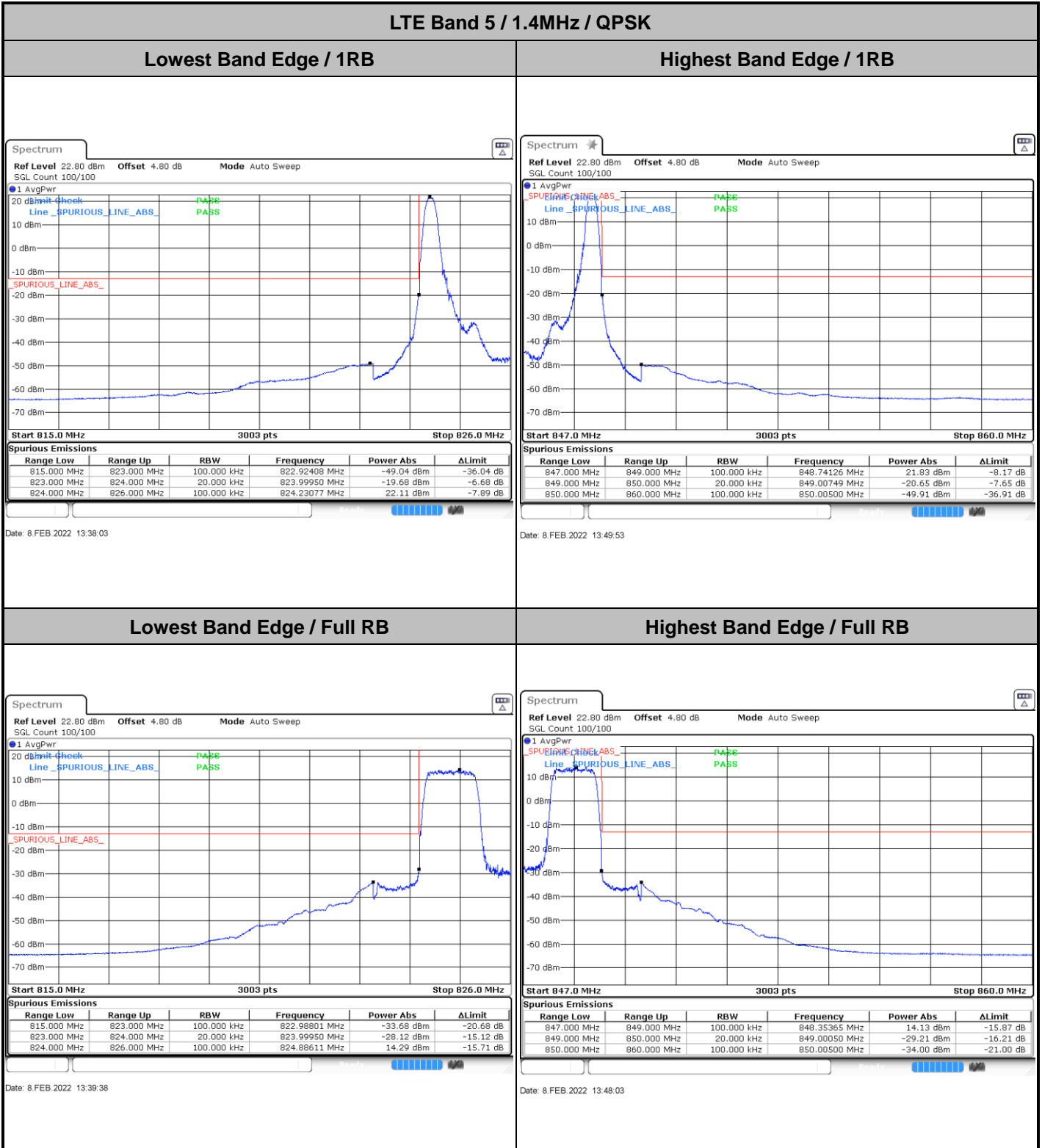
Occupied Bandwidth

Mode	LTE Band 5 : 99%OBW(MHz)	
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.05	9.11





Conducted Band Edge





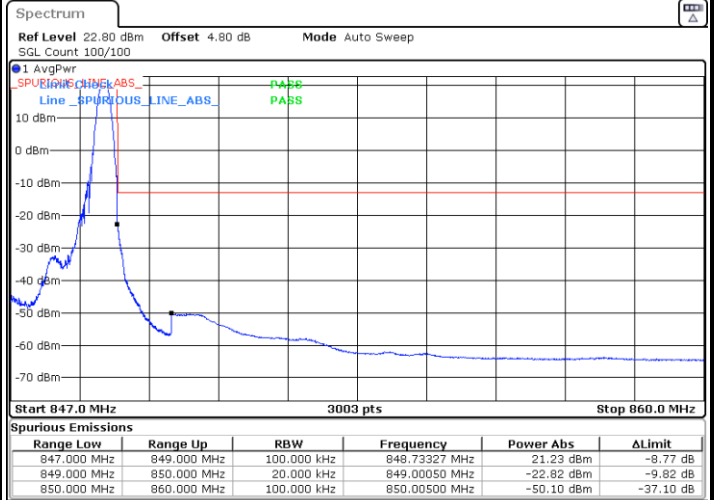
LTE Band 5 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



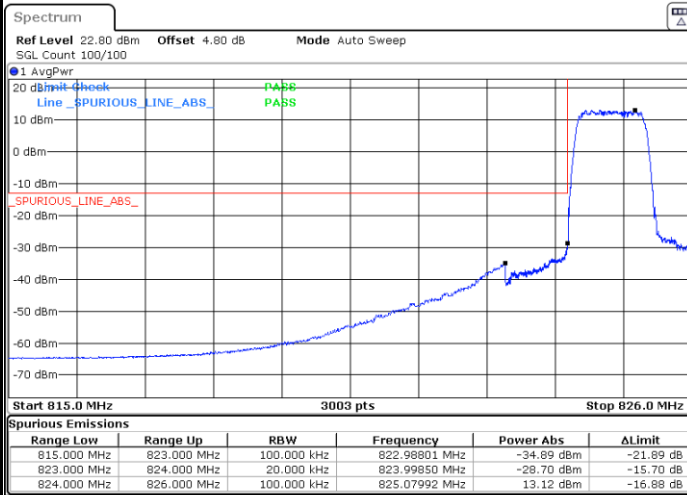
Date: 8.FEB.2022 13:08:50

Highest Band Edge / 1 RB



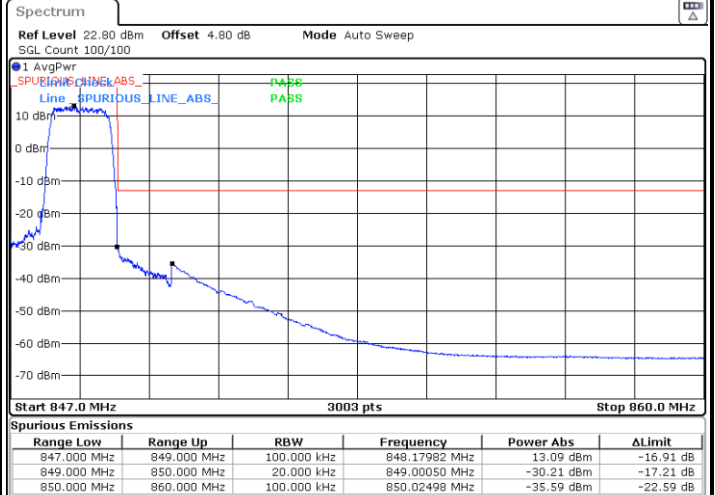
Date: 8.FEB.2022 13:51:29

Lowest Band Edge / Full RB



Date: 8.FEB.2022 13:41:18

Highest Band Edge / Full RB



Date: 8.FEB.2022 13:46:31



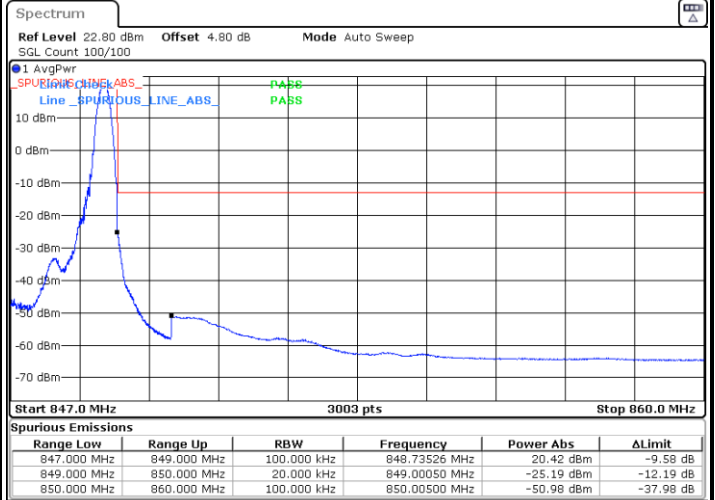
LTE Band 5 / 1.4MHz / 64QAM

Lowest Band Edge / 1 RB



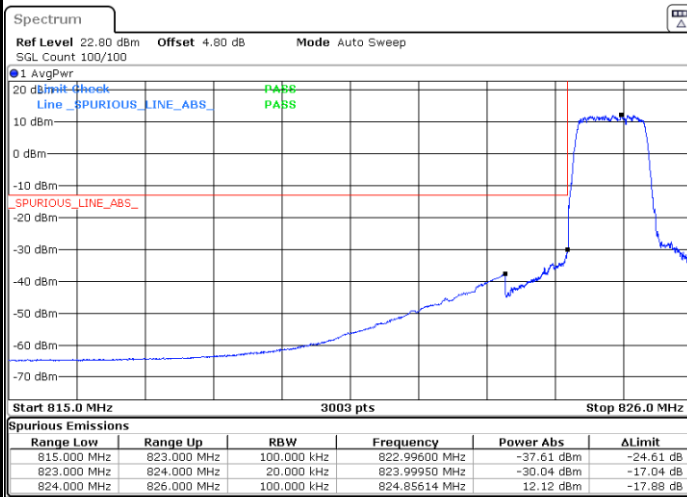
Date: 8.FEB.2022 13:07:15

Highest Band Edge / 1 RB



Date: 8.FEB.2022 13:53:04

Lowest Band Edge / Full RB



Date: 8.FEB.2022 13:42:44

Highest Band Edge / Full RB

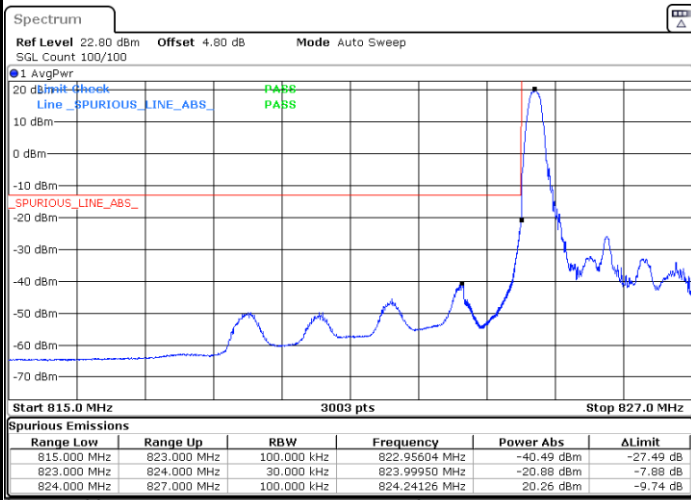


Date: 8.FEB.2022 13:44:53



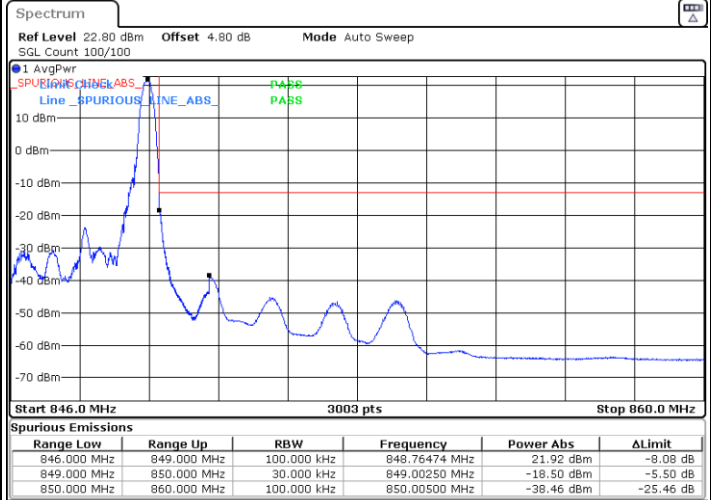
LTE Band 5 / 3MHz / QPSK

Lowest Band Edge / 1RB



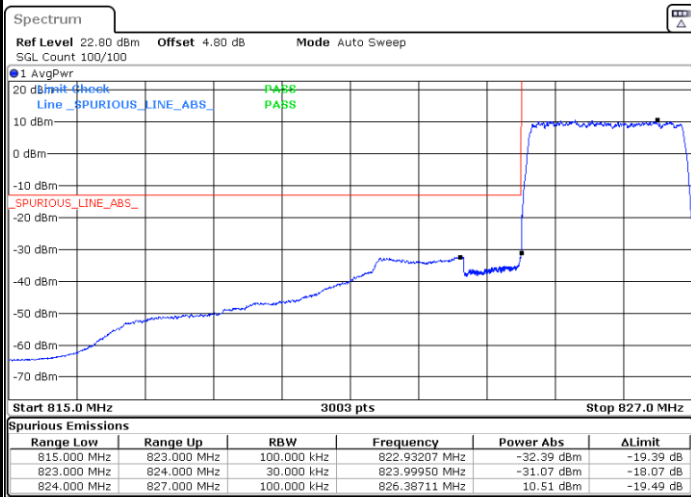
Date: 8.FEB.2022 13:58:51

Highest Band Edge / 1 RB



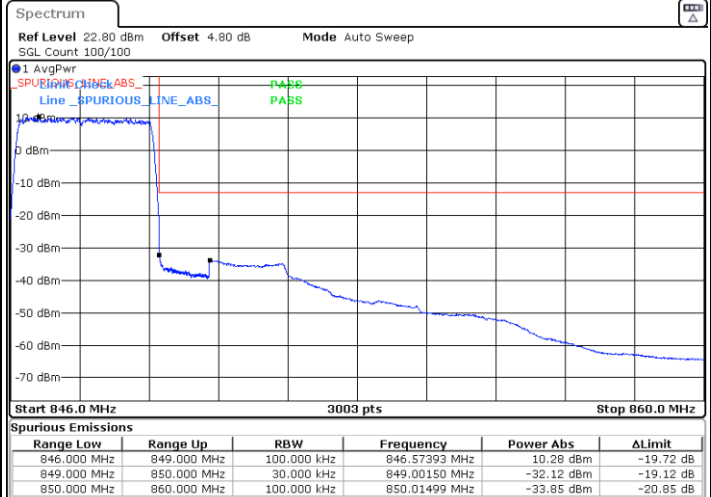
Date: 8.FEB.2022 14:13:56

Lowest Band Edge / Full RB



Date: 8.FEB.2022 14:06:20

Highest Band Edge / Full RB

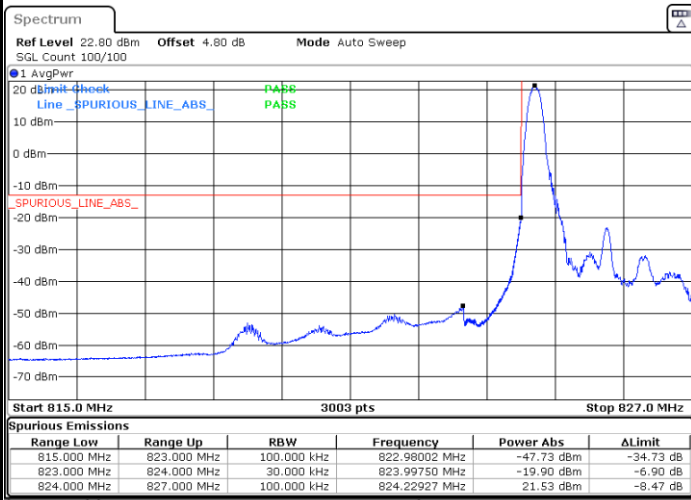


Date: 8.FEB.2022 14:07:56



LTE Band 5 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



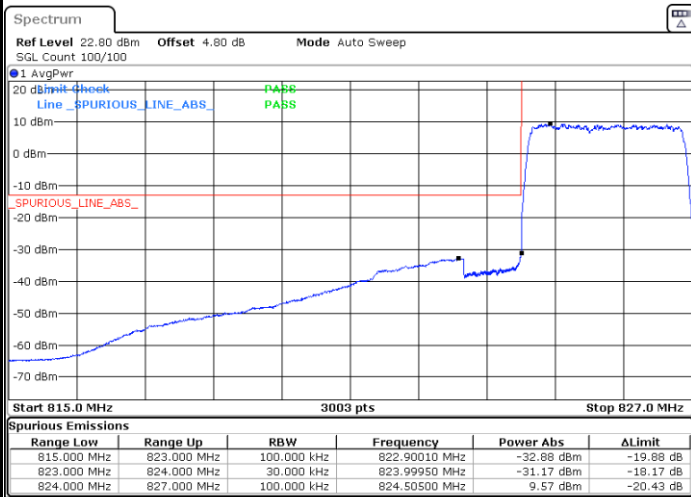
Date: 8.FEB.2022 14:01:32

Highest Band Edge / 1 RB



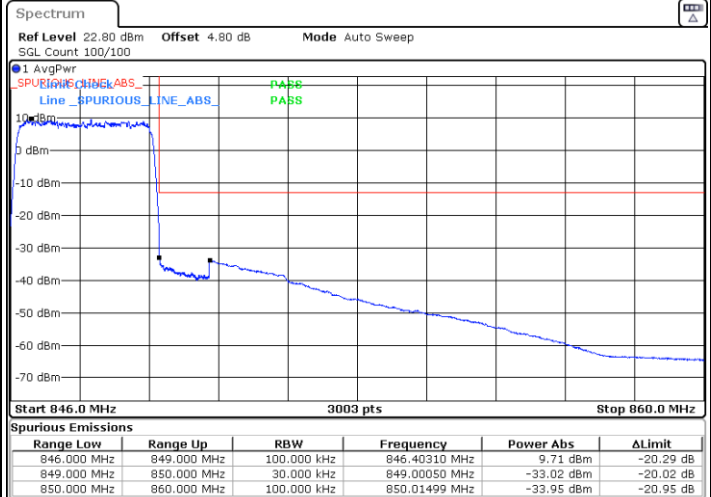
Date: 8.FEB.2022 14:12:49

Lowest Band Edge / Full RB



Date: 8.FEB.2022 14:05:02

Highest Band Edge / Full RB

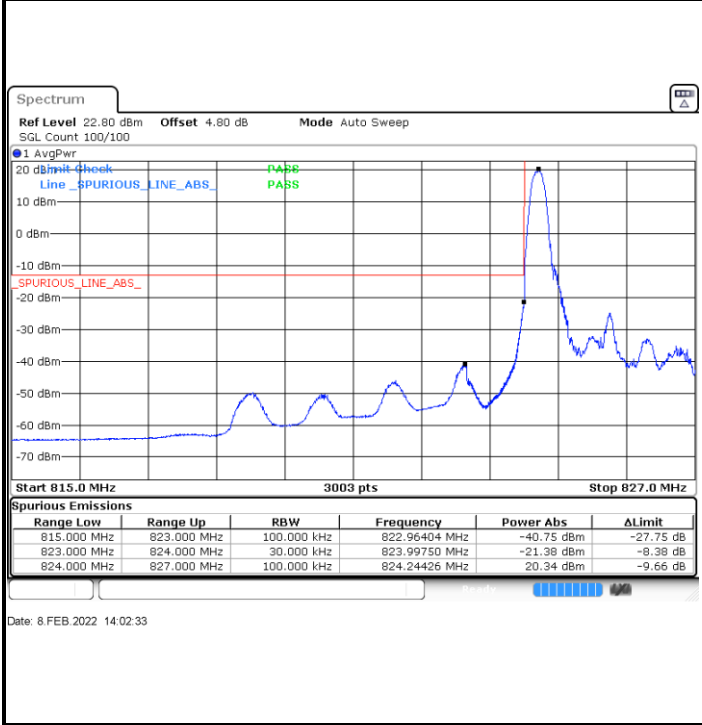


Date: 8.FEB.2022 14:09:14

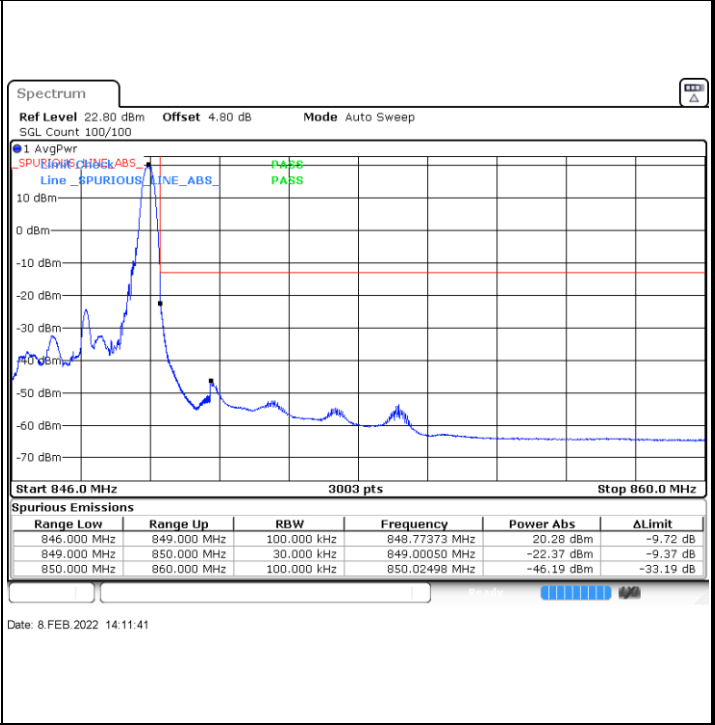


LTE Band 5 / 3MHz / 64QAM

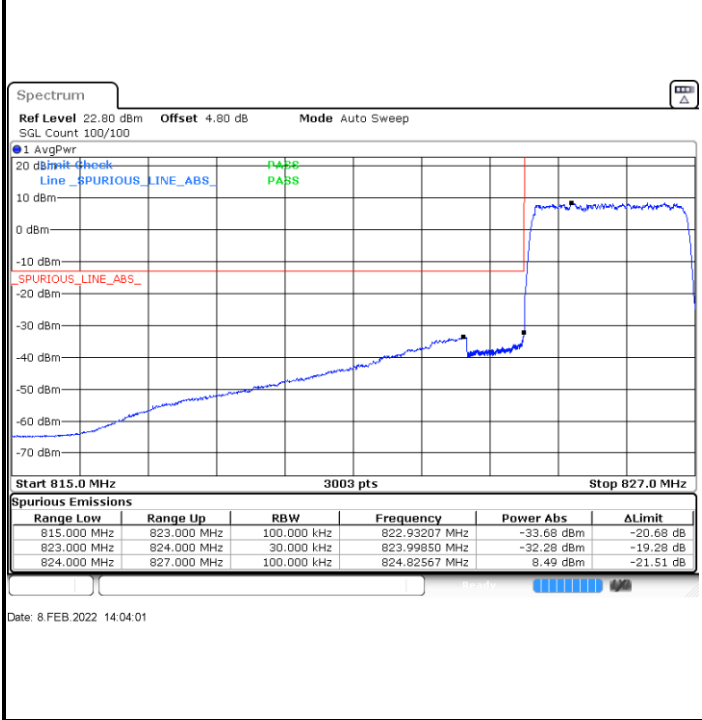
Lowest Band Edge / 1 RB



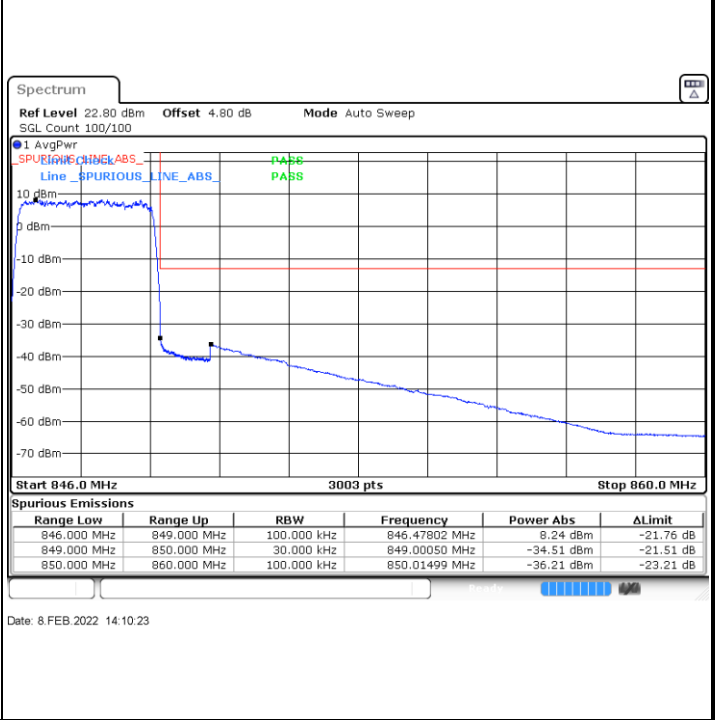
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



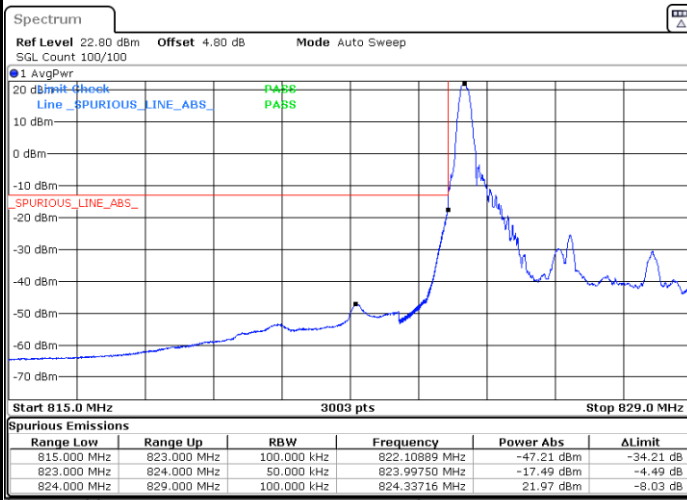
Highest Band Edge / Full RB





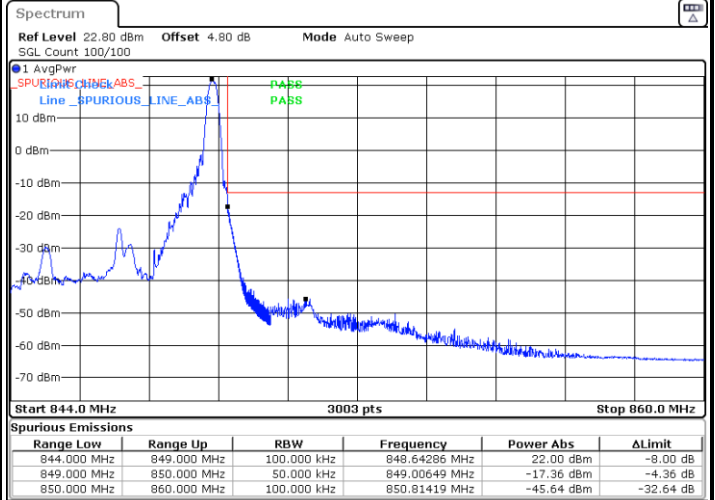
LTE Band 5 / 5MHz / QPSK

Lowest Band Edge / 1 RB



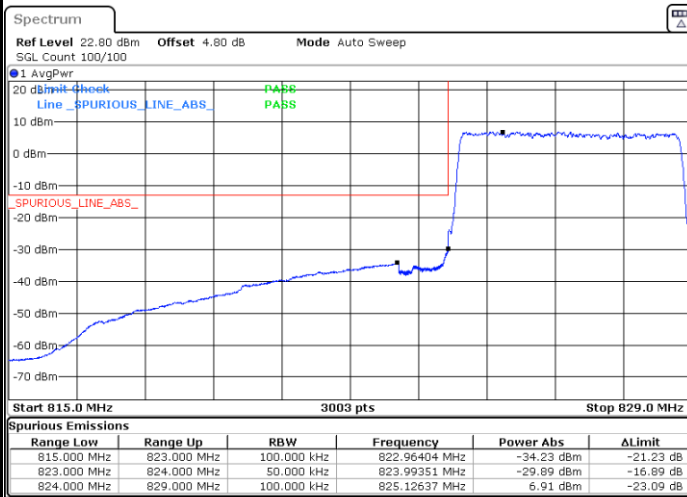
Date: 8.FEB.2022 14:17:56

Highest Band Edge / 1 RB



Date: 8.FEB.2022 14:29:40

Lowest Band Edge / Full RB



Date: 8.FEB.2022 14:23:14

Highest Band Edge / Full RB

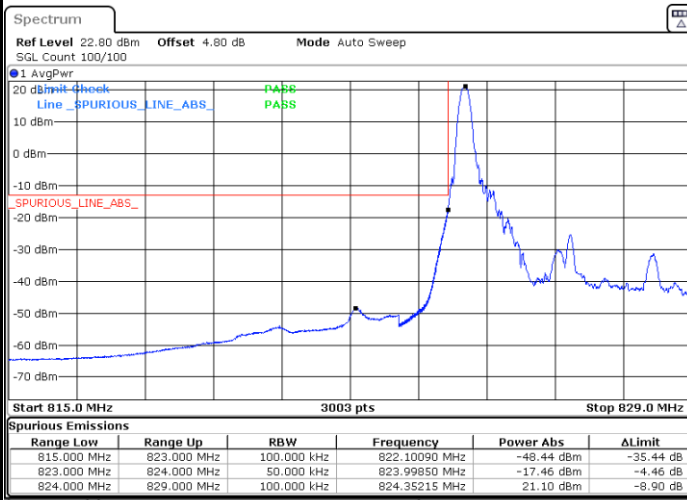


Date: 8.FEB.2022 14:24:44



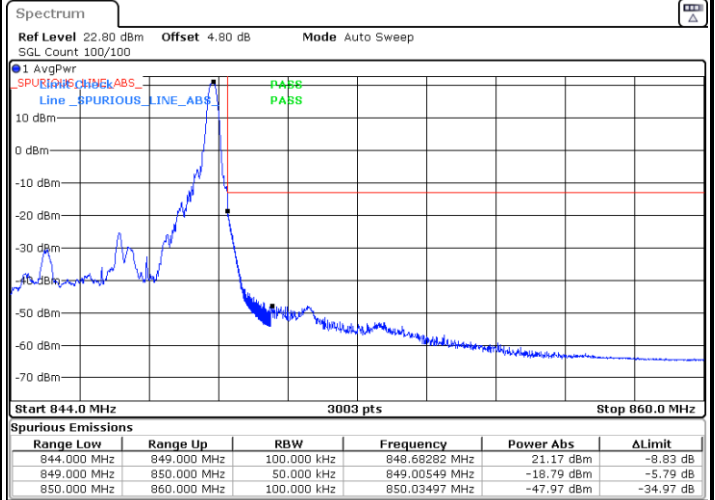
LTE Band 5 / 5MHz / 16QAM

Lowest Band Edge / 1RB



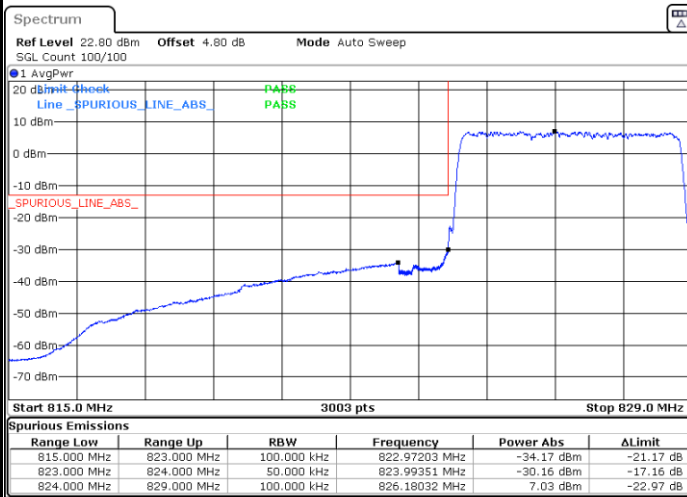
Date: 8 FEB 2022 14:19:39

Highest Band Edge / 1 RB



Date: 8 FEB 2022 14:28:33

Lowest Band Edge / Full RB



Date: 8 FEB 2022 14:22:29

Highest Band Edge / Full RB

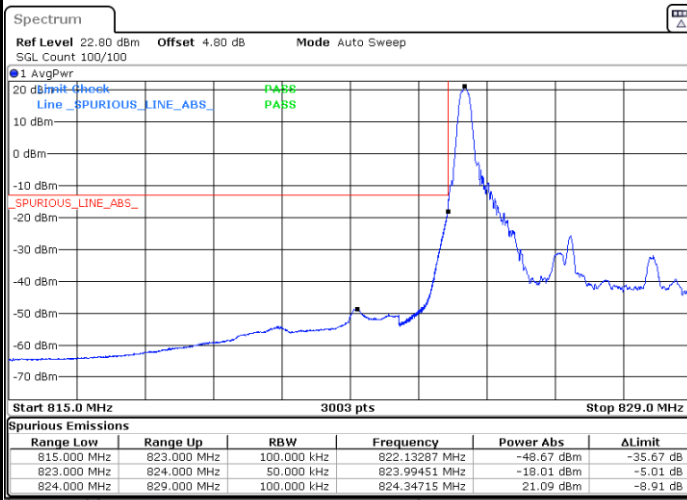


Date: 8 FEB 2022 14:25:36



LTE Band 5 / 5MHz / 64QAM

Lowest Band Edge / 1RB



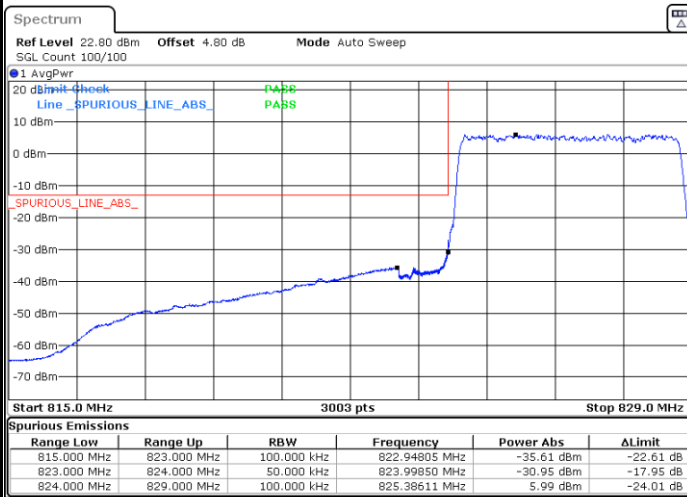
Date: 8.FEB.2022 14:20:36

Highest Band Edge / 1 RB



Date: 8.FEB.2022 14:27:43

Lowest Band Edge / Full RB



Date: 8.FEB.2022 14:21:43

Highest Band Edge / Full RB

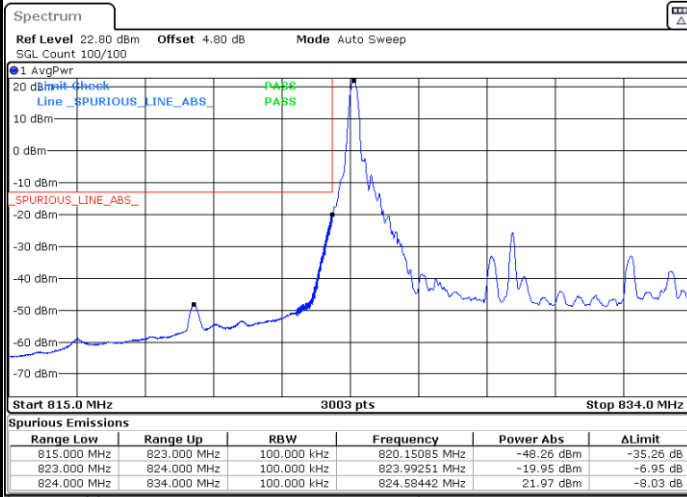


Date: 8.FEB.2022 14:26:35



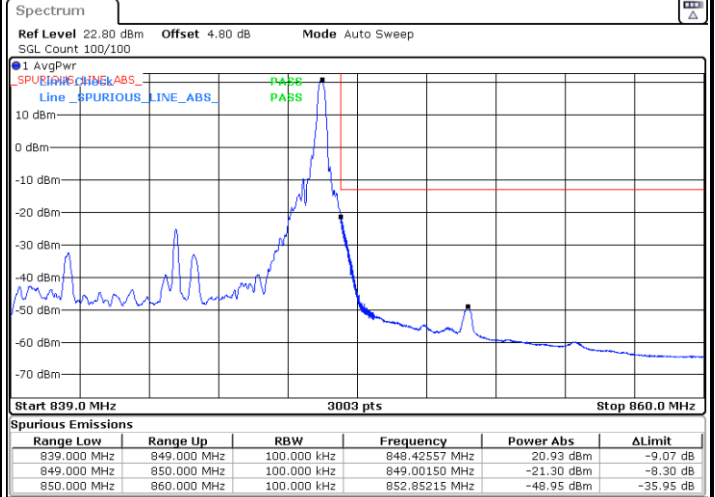
LTE Band 5 / 10MHz / QPSK

Lowest Band Edge / 1 RB



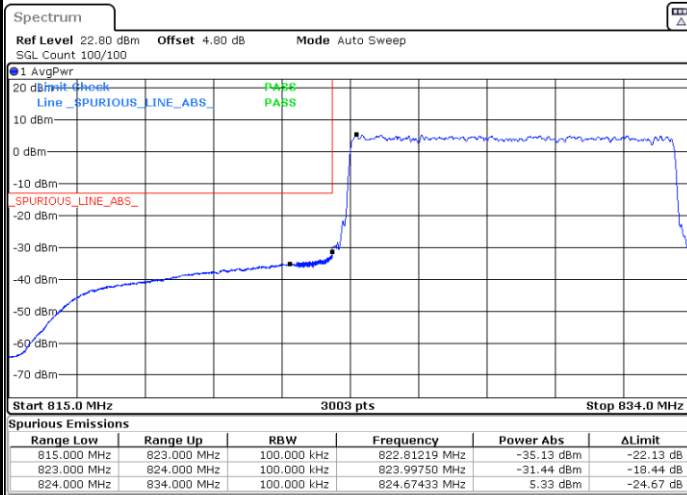
Date: 8.FEB.2022 14:39:09

Highest Band Edge / 1 RB



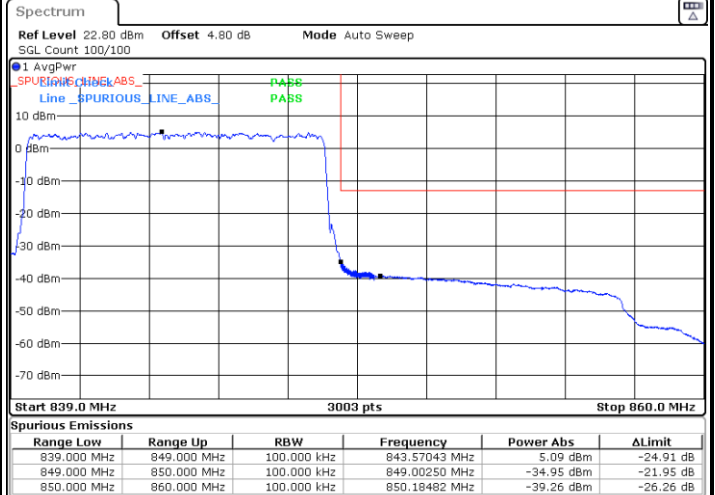
Date: 8.FEB.2022 15:01:47

Lowest Band Edge / Full RB



Date: 8.FEB.2022 14:55:31

Highest Band Edge / Full RB

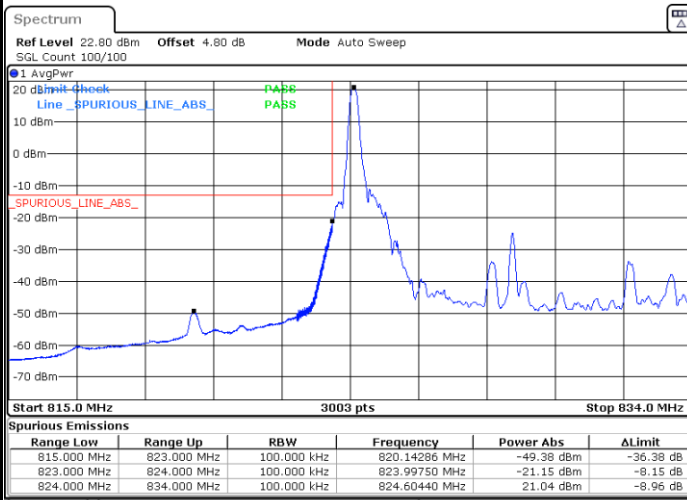


Date: 8.FEB.2022 14:56:46



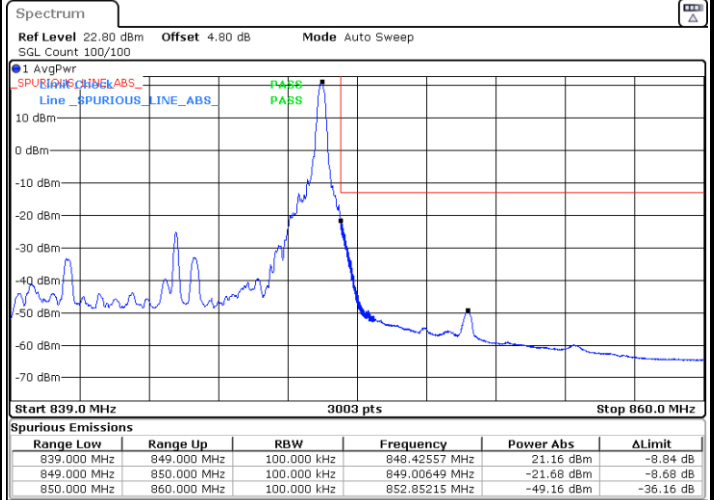
LTE Band 5 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



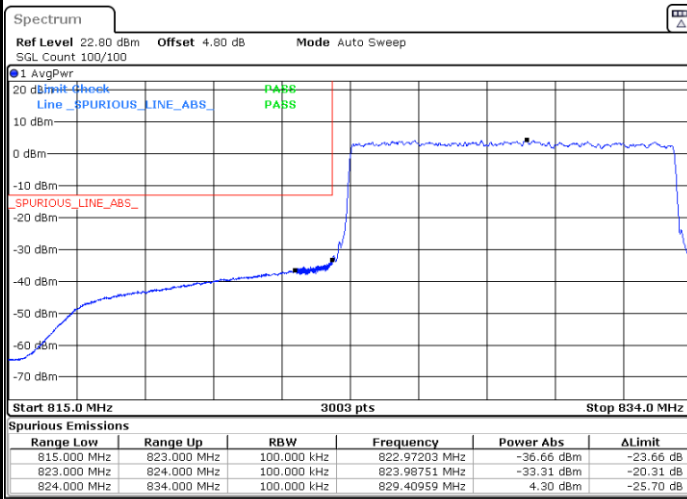
Date: 8.FEB.2022 14:42:57

Highest Band Edge / 1 RB



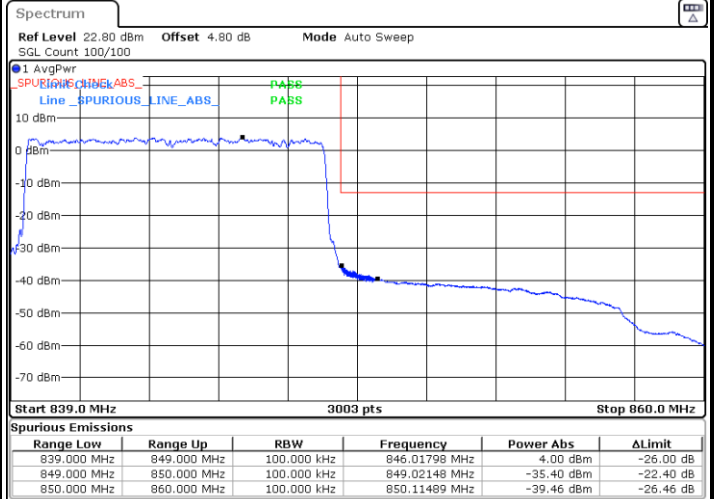
Date: 8.FEB.2022 15:01:05

Lowest Band Edge / Full RB



Date: 8.FEB.2022 14:54:37

Highest Band Edge / Full RB

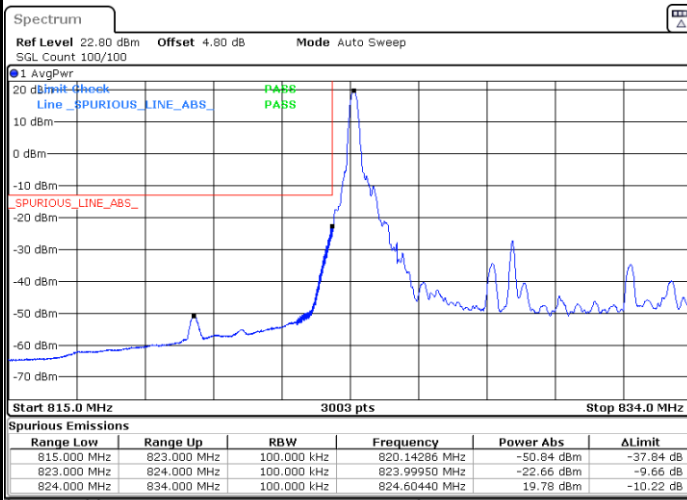


Date: 8.FEB.2022 14:57:56



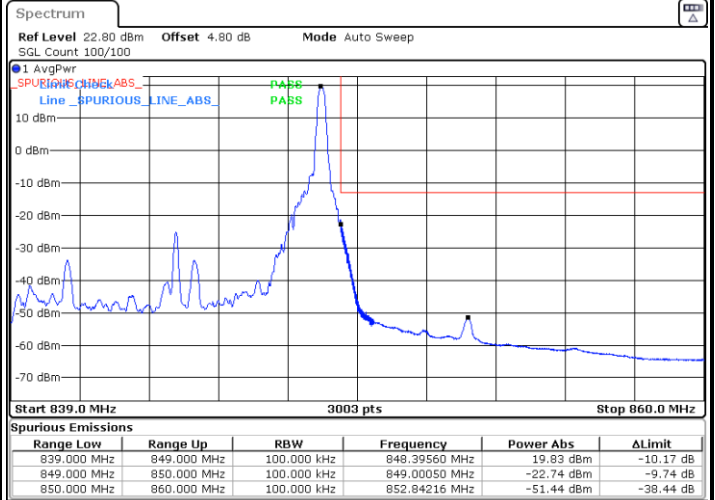
LTE Band 5 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



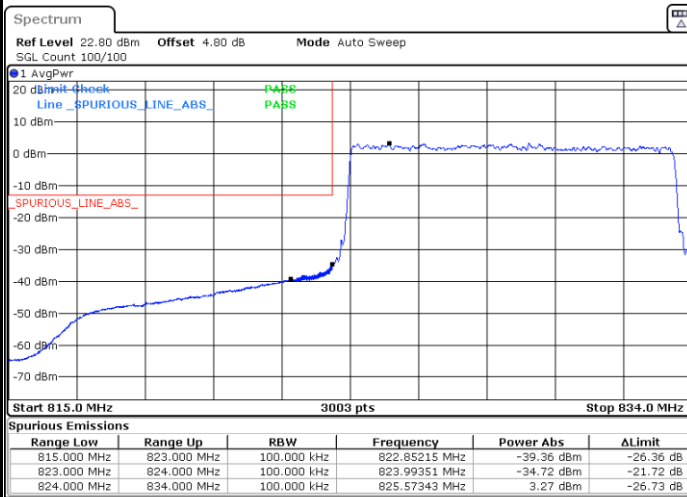
Date: 8.FEB.2022 14:43:40

Highest Band Edge / 1 RB



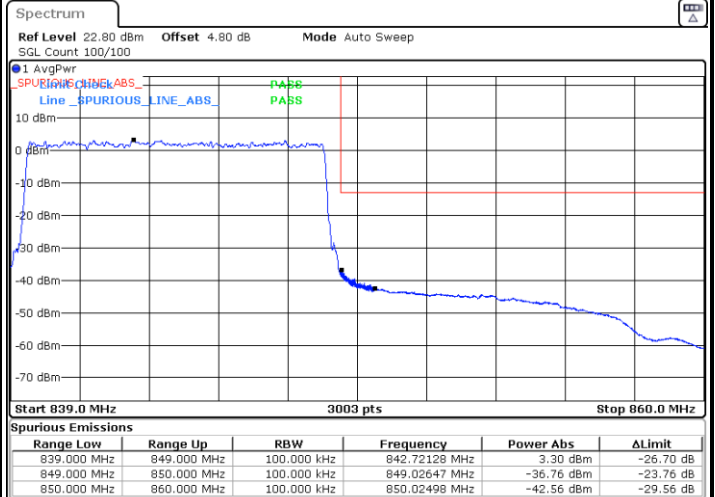
Date: 8.FEB.2022 15:00:21

Lowest Band Edge / Full RB



Date: 8.FEB.2022 14:52:36

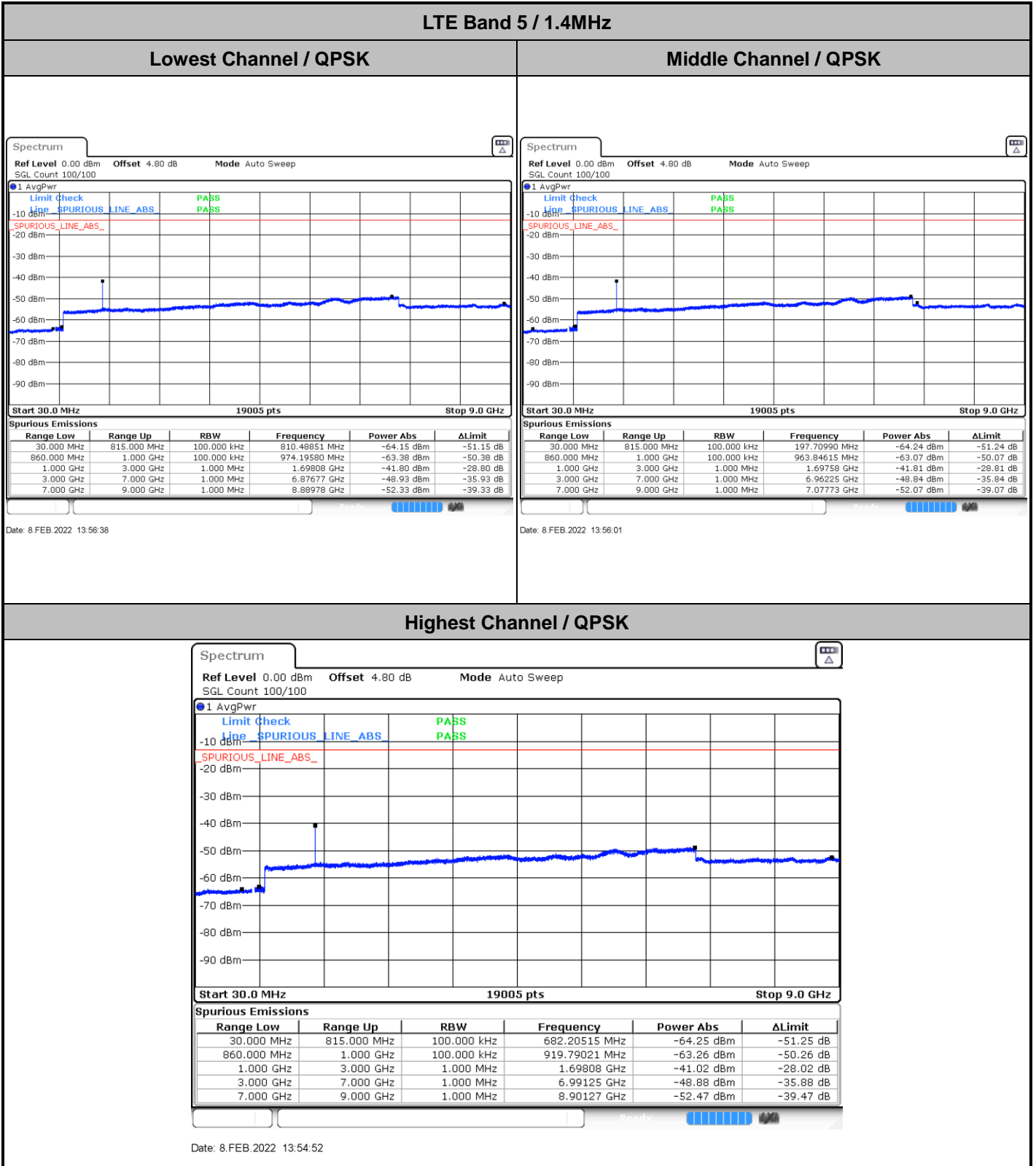
Highest Band Edge / Full RB



Date: 8.FEB.2022 14:59:14



Conducted Spurious Emission

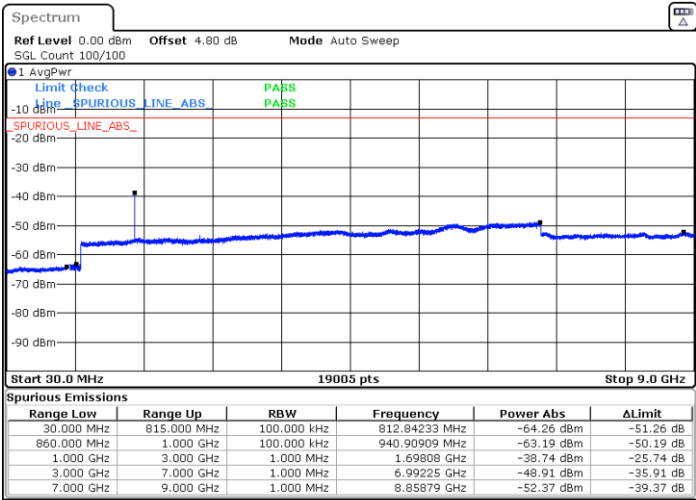




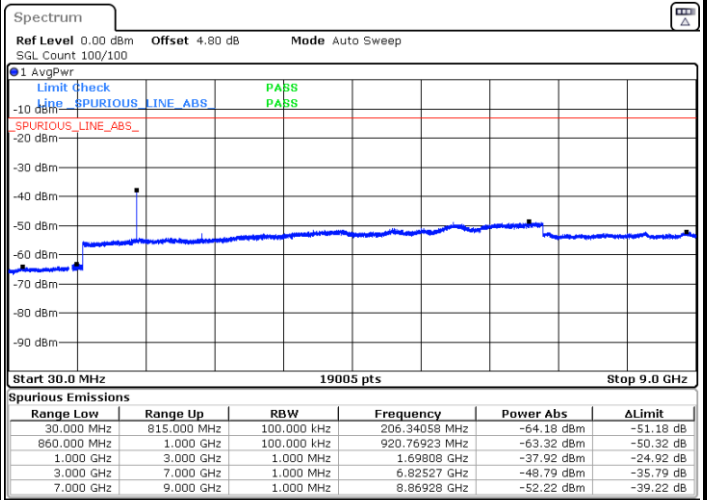
LTE Band 5 / 3MHz

Lowest Channel / QPSK

Middle Channel / QPSK

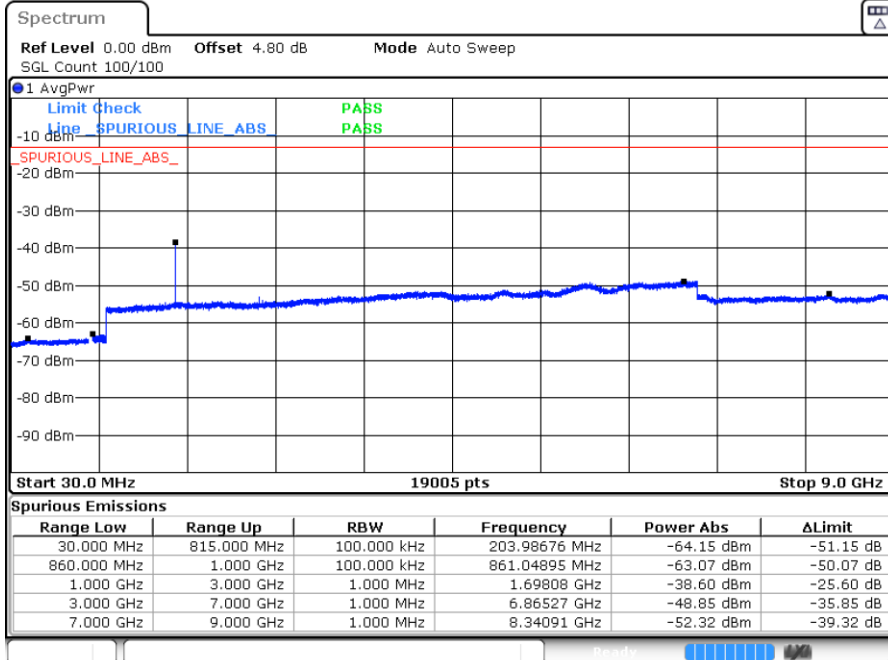


Date: 8.FEB.2022 14:16:24



Date: 8.FEB.2022 14:15:50

Highest Channel / QPSK



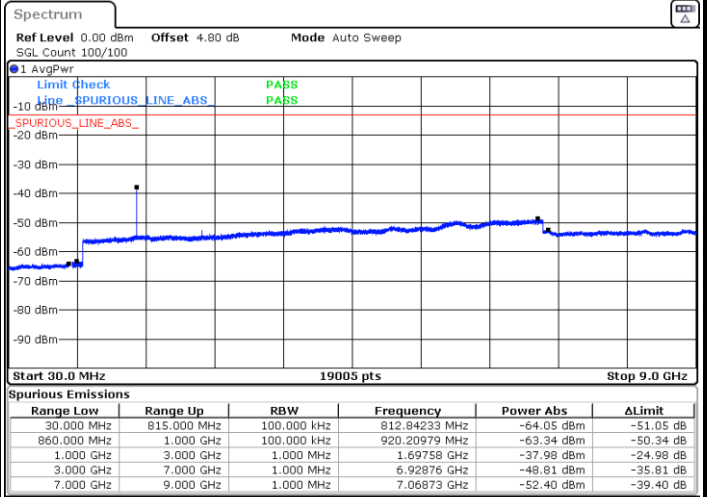
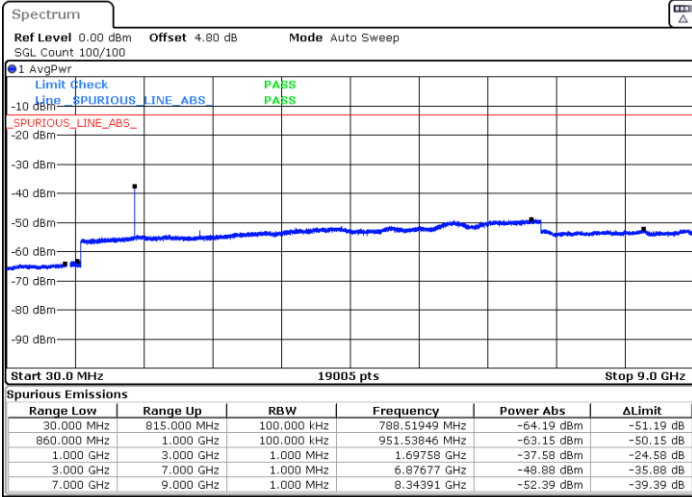
Date: 8.FEB.2022 14:14:49



LTE Band 5 / 5MHz

Lowest Channel / QPSK

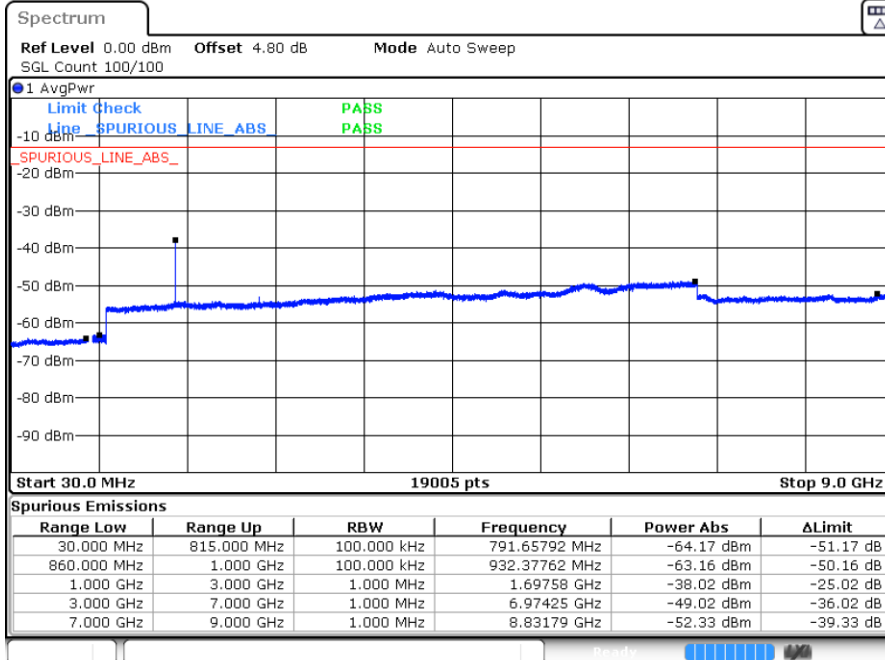
Middle Channel / QPSK



Date: 8.FEB.2022 14:35:04

Date: 8.FEB.2022 14:34:11

Highest Channel / QPSK



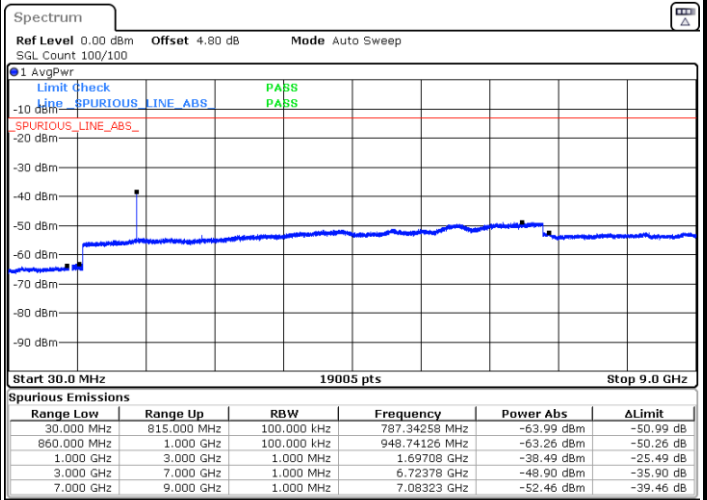
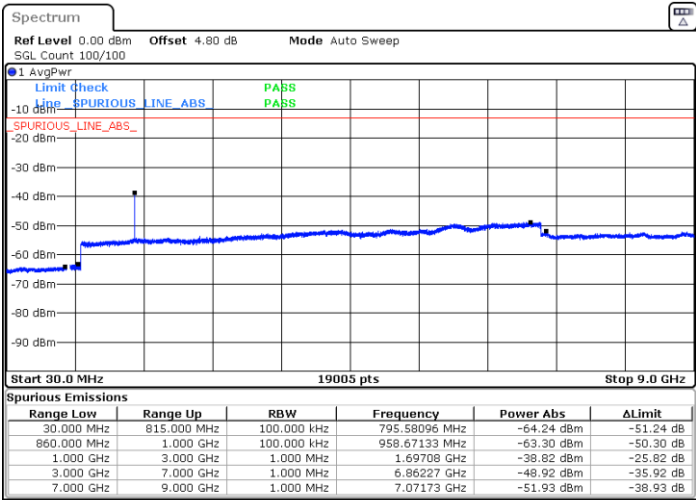
Date: 8.FEB.2022 14:30:51



LTE Band 5 / 10MHz

Lowest Channel / QPSK

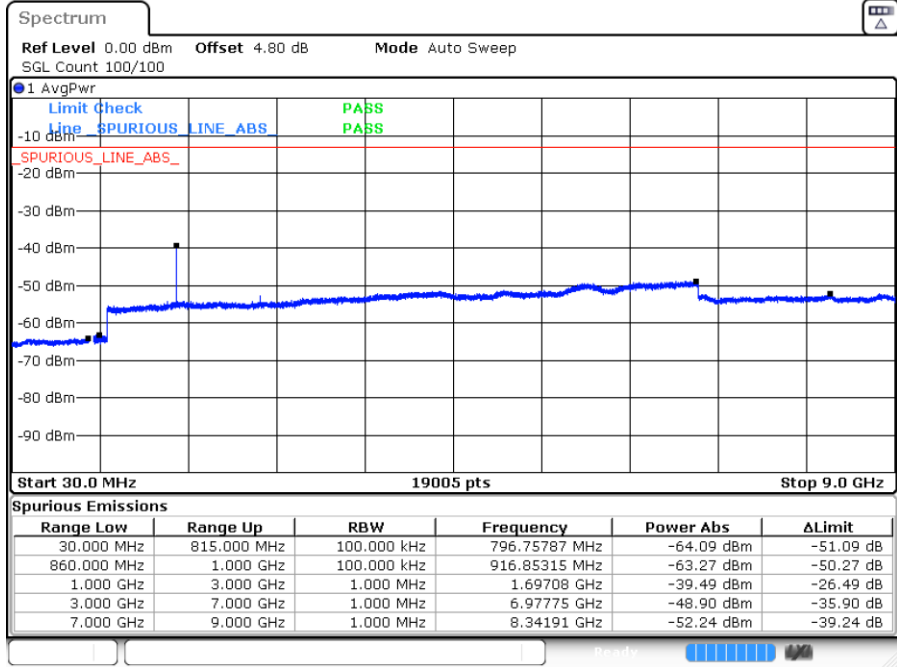
Middle Channel / QPSK



Date: 8.FEB.2022 15:04:00

Date: 8.FEB.2022 15:03:08

Highest Channel / QPSK



Date: 8.FEB.2022 15:02:36



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	0.0009	PASS
40	Normal Voltage	0.0017	
30	Normal Voltage	0.0025	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0019	
0	Normal Voltage	0.0000	
-10	Normal Voltage	0.0018	
-20	Normal Voltage	0.0051	
-30	Normal Voltage	0.0021	
20	Maximum Voltage	0.0017	
20	Normal Voltage	0.0013	
20	Battery End Point	0.0002	

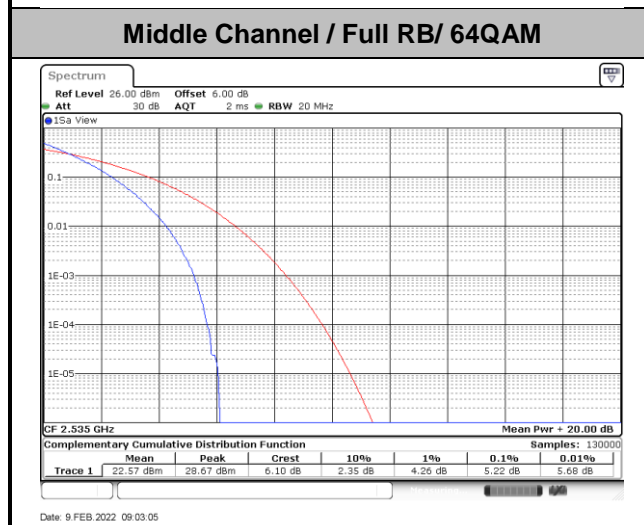
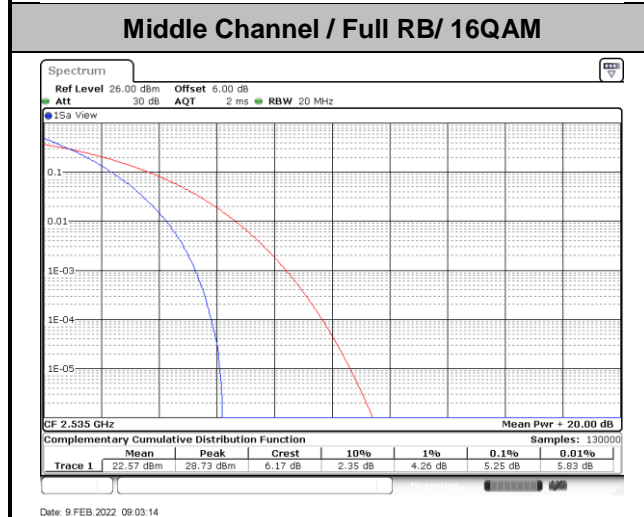
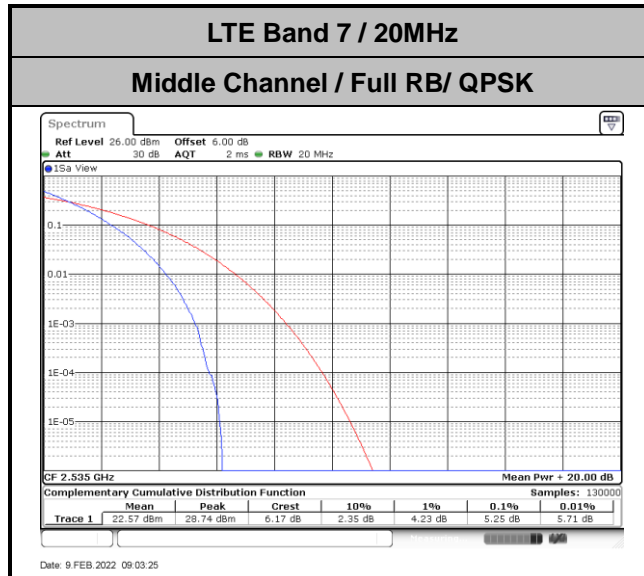
Note: Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.45 V.



LTE Band 7

Peak-to-Average Ratio

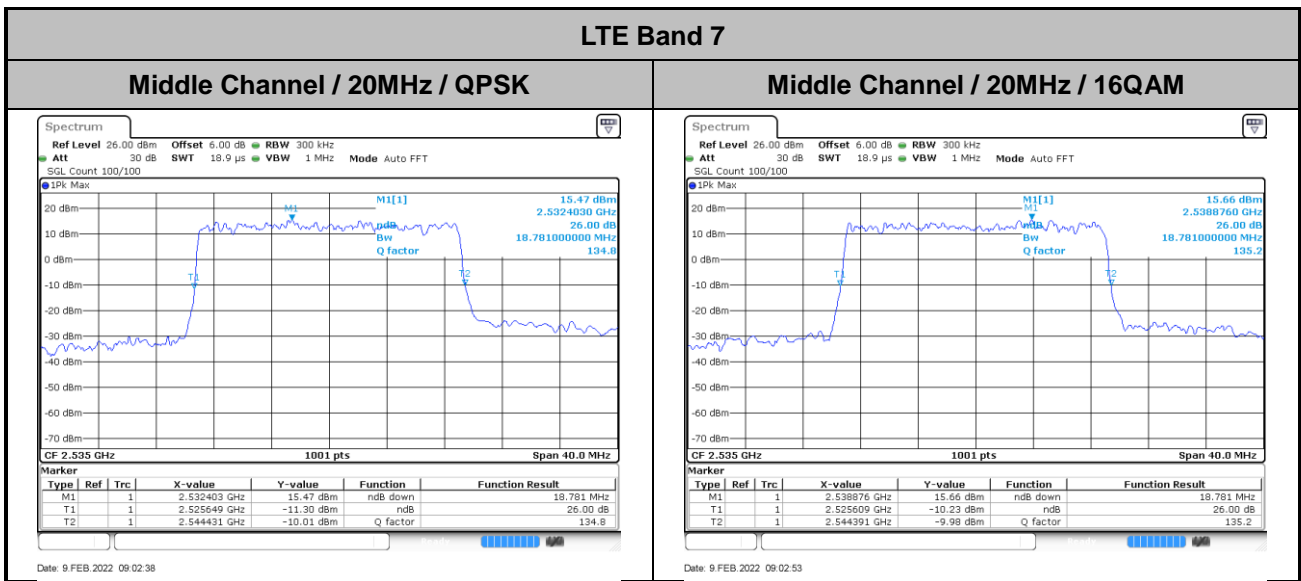
Mode	LTE Band 7 / 20MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	5.25	5.25	5.22	PASS





26dB Bandwidth

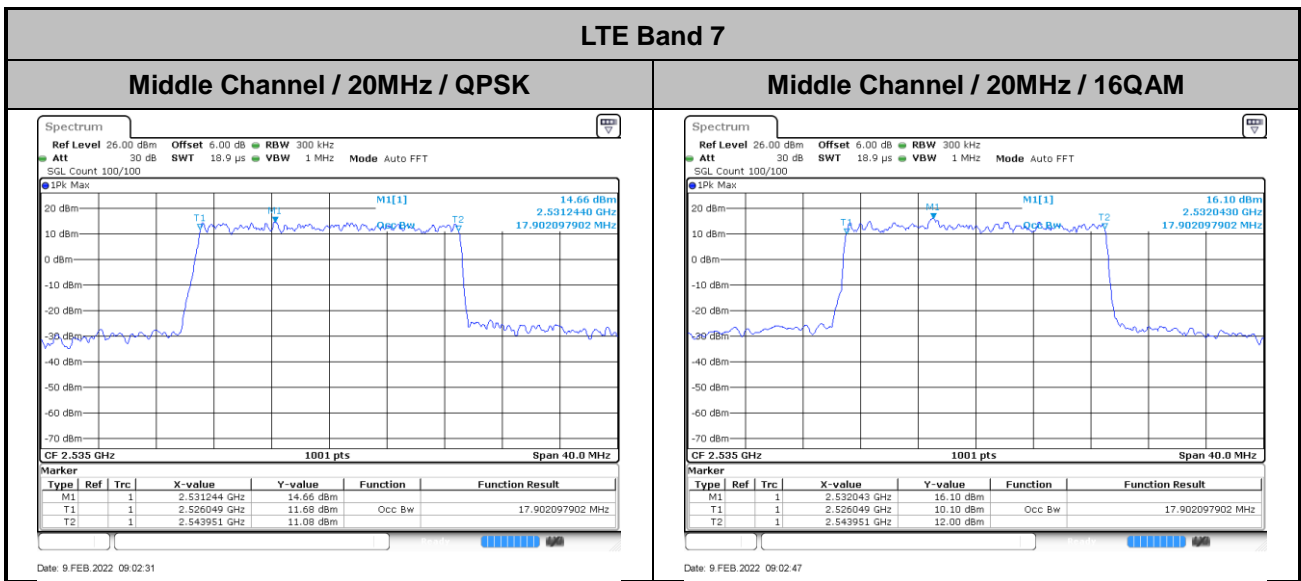
Mode	LTE Band 7 : 26dB BW(MHz)	
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	18.78	18.78





Occupied Bandwidth

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

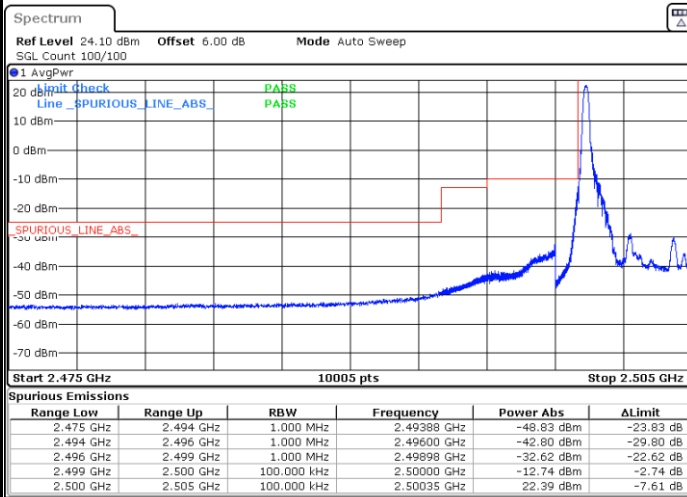




Conducted Band Edge

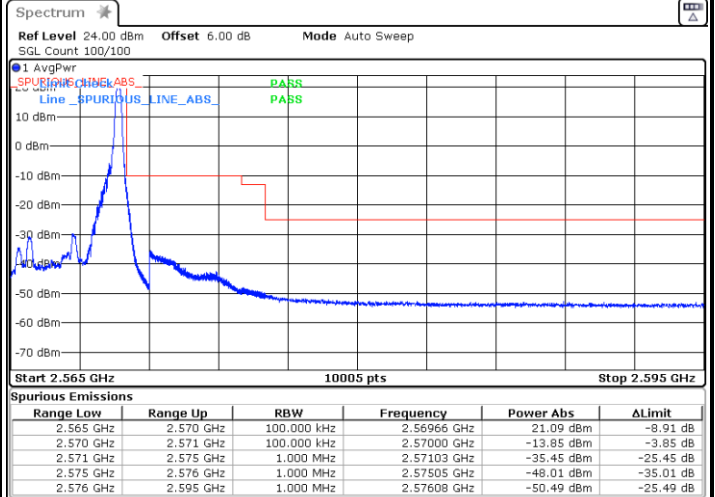
LTE Band 7 / 5MHz / QPSK

Lowest Band Edge / 1 RB



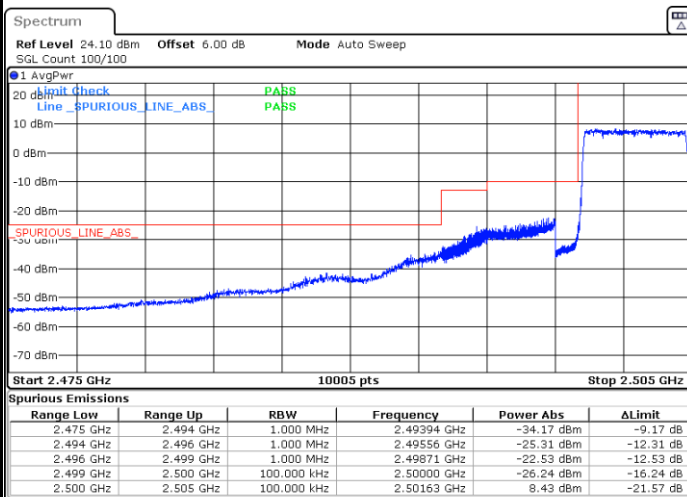
Date: 8 FEB 2022 17:17:56

Highest Band Edge / 1 RB



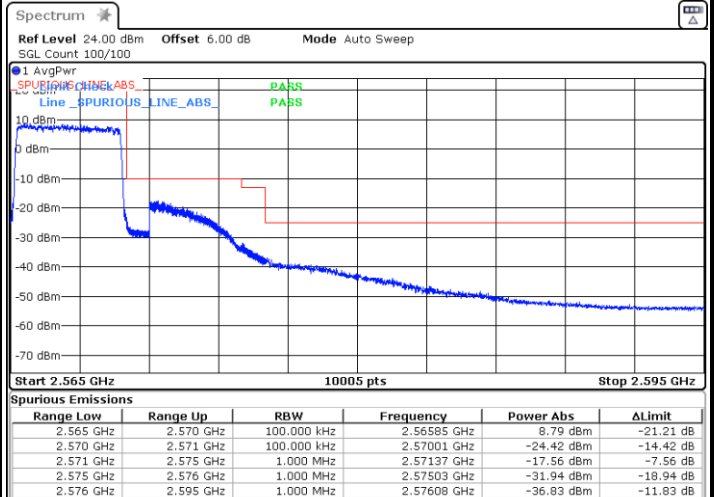
Date: 8 FEB 2022 17:57:01

Lowest Band Edge / Full RB



Date: 8 FEB 2022 17:04:31

Highest Band Edge / Full RB

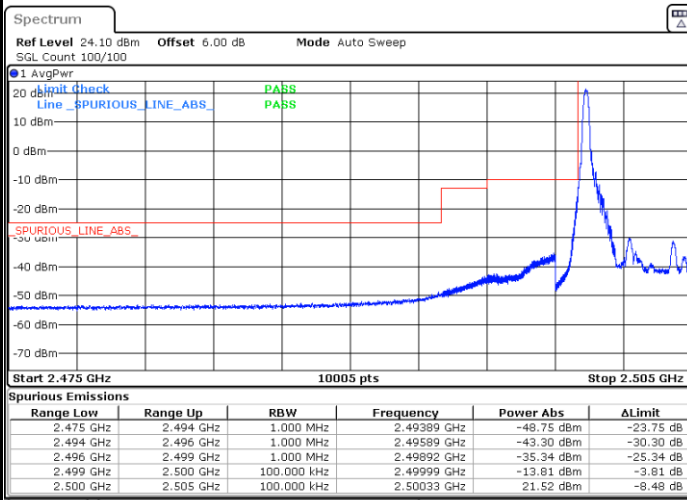


Date: 8 FEB 2022 17:22:18



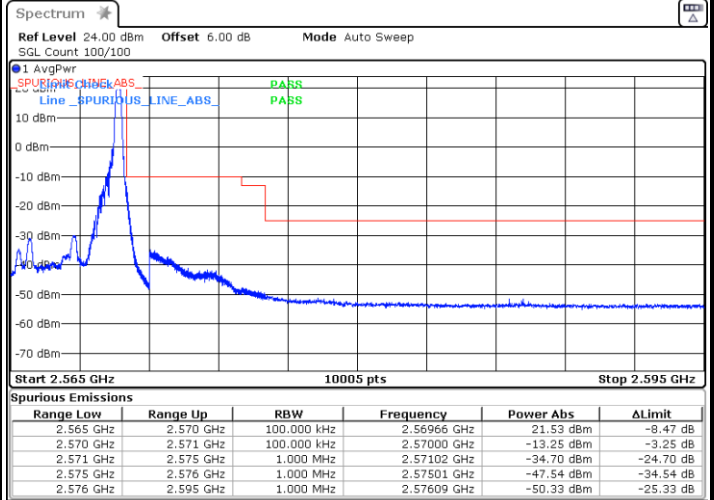
LTE Band 7 / 5MHz / 16QAM

Lowest Band Edge / 1RB



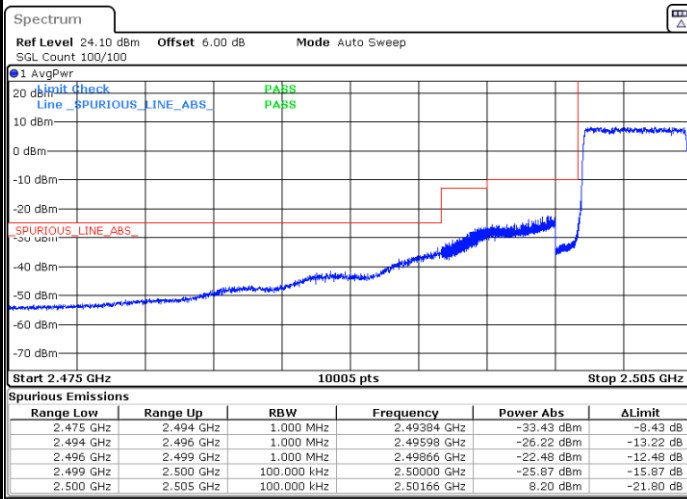
Date: 8.FEB.2022 17:13:44

Highest Band Edge / 1 RB



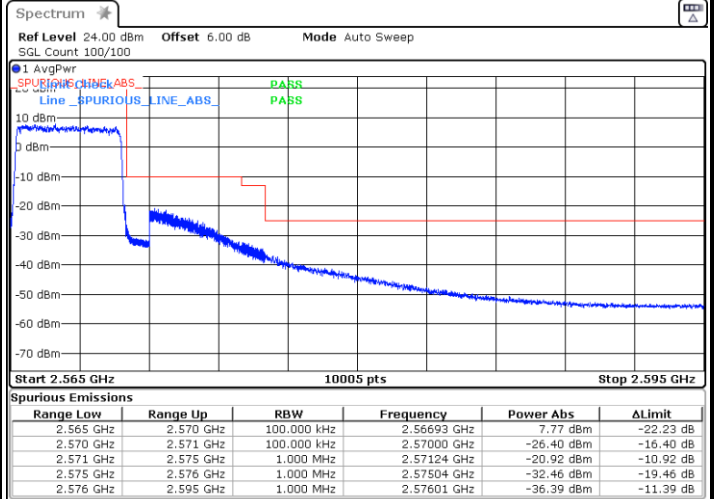
Date: 8.FEB.2022 17:56:38

Lowest Band Edge / Full RB



Date: 8.FEB.2022 17:04:58

Highest Band Edge / Full RB

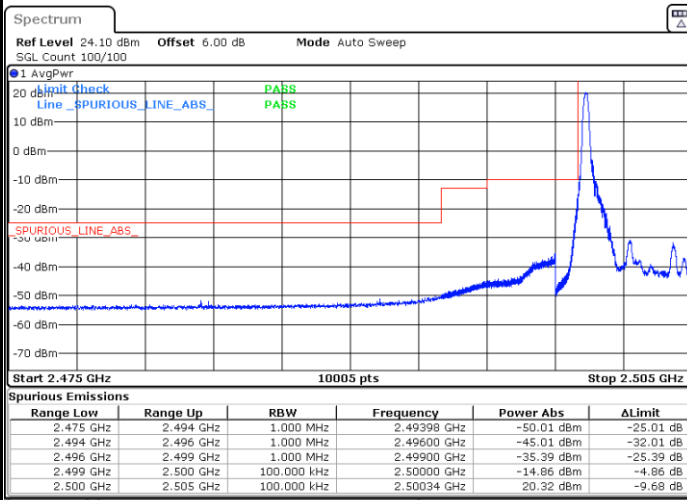


Date: 8.FEB.2022 17:55:11



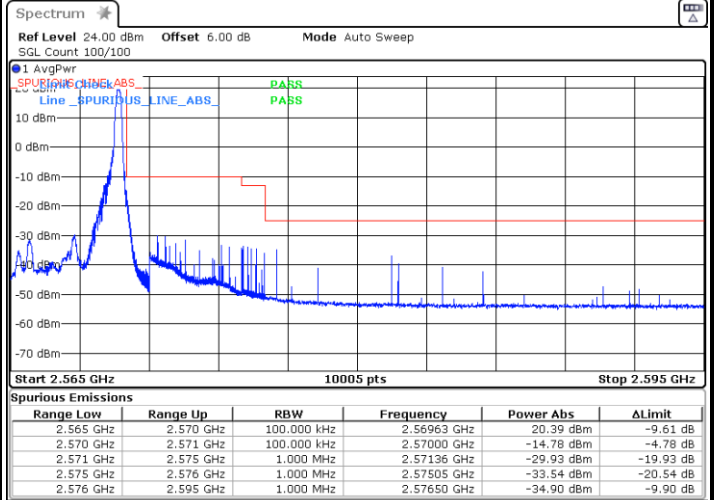
LTE Band 7 / 5MHz / 64QAM

Lowest Band Edge / 1RB



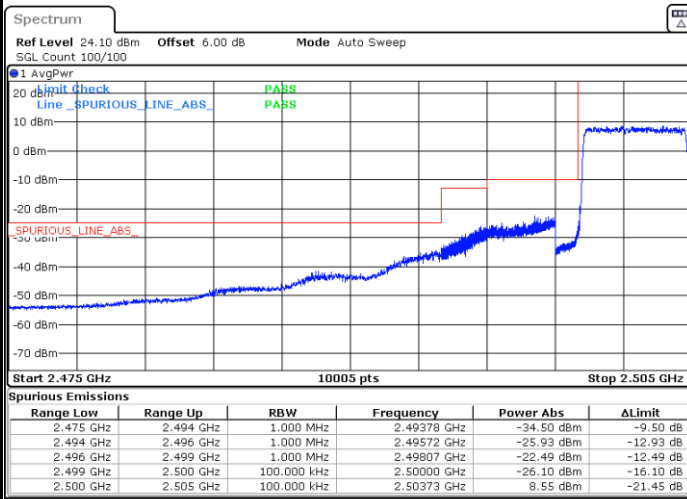
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Highest Band Edge / 1 RB



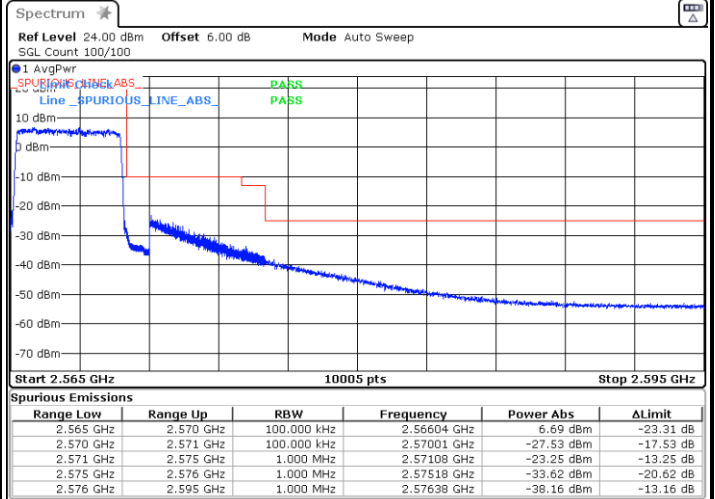
Date: 8 FEB 2022 17:56:04

Lowest Band Edge / Full RB



Date: 8 FEB 2022 17:12:57

Highest Band Edge / Full RB



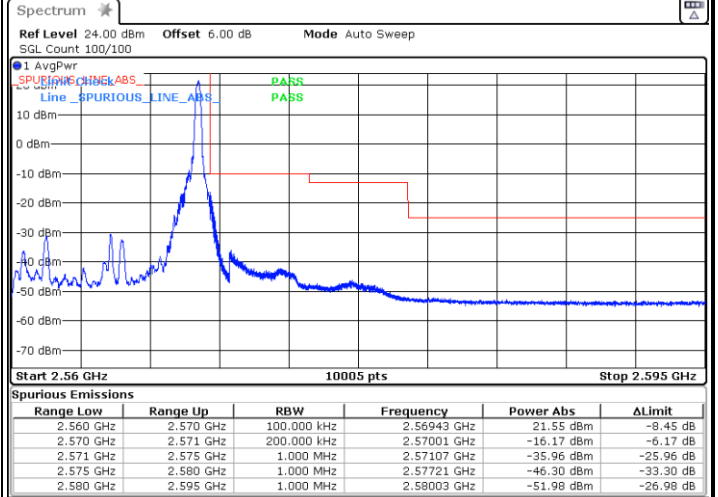
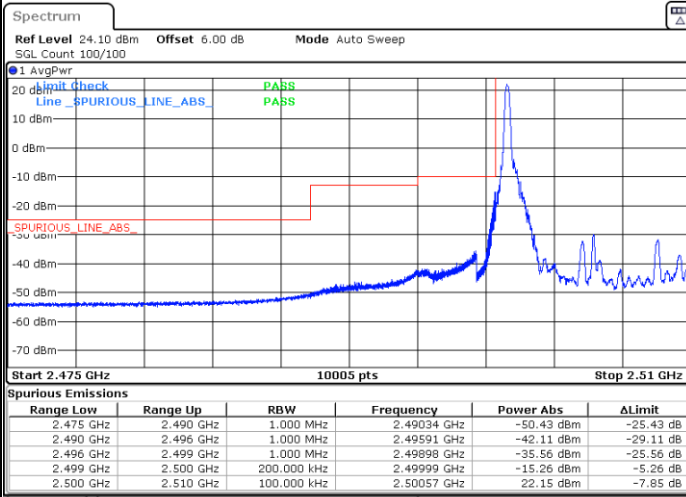
Date: 8 FEB 2022 17:55:32



LTE Band 7 / 10MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

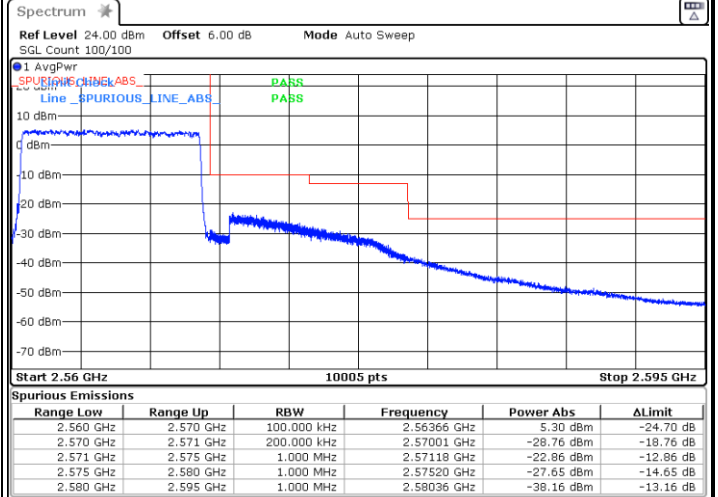
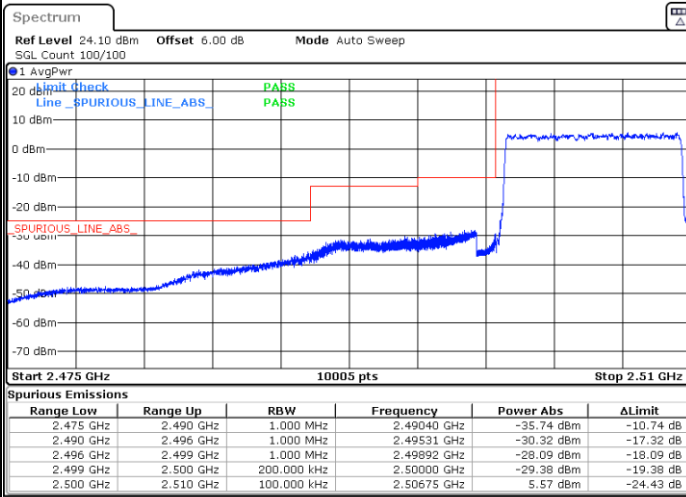


Date: 8 FEB 2022 18:04:10

Date: 8 FEB 2022 18:46:57

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 8 FEB 2022 18:40:49

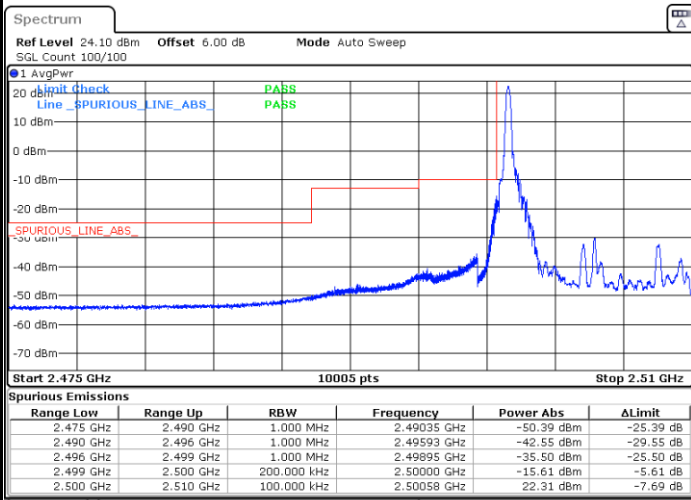
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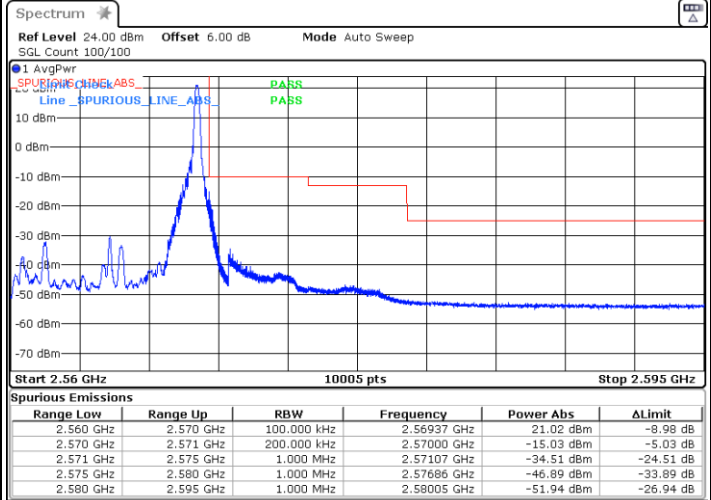
LTE Band 7 / 10MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



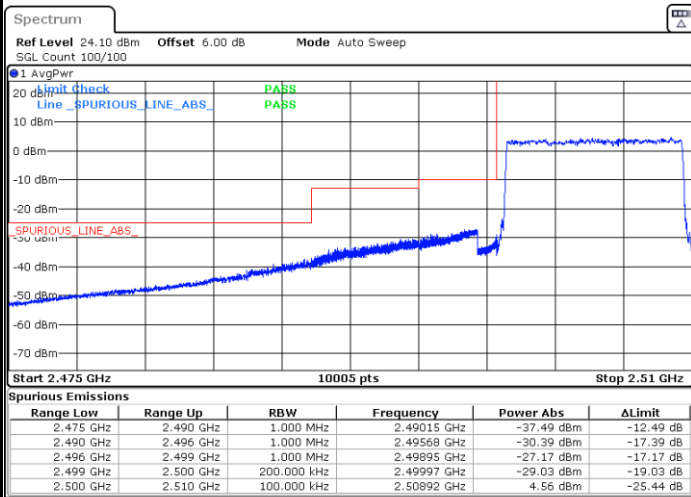
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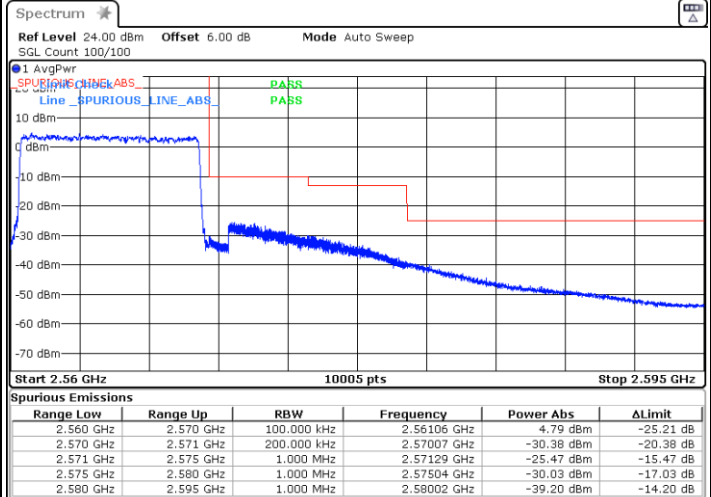
Date: 8 FEB 2022 18:46:36

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 8 FEB 2022 18:40:21



Date: 8 FEB 2022 18:45:08