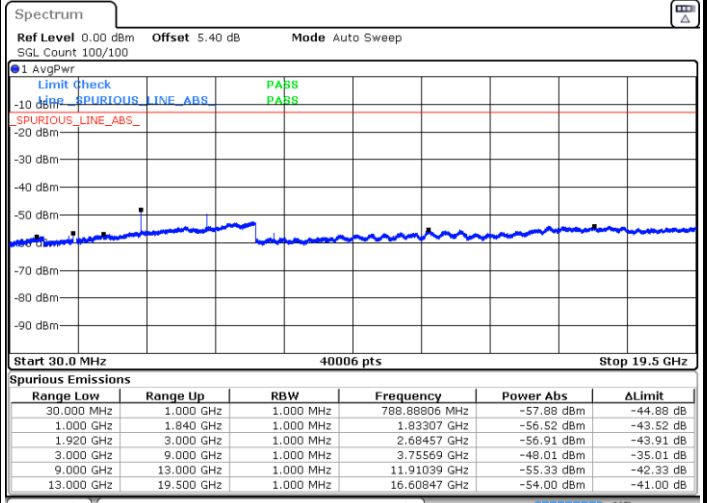
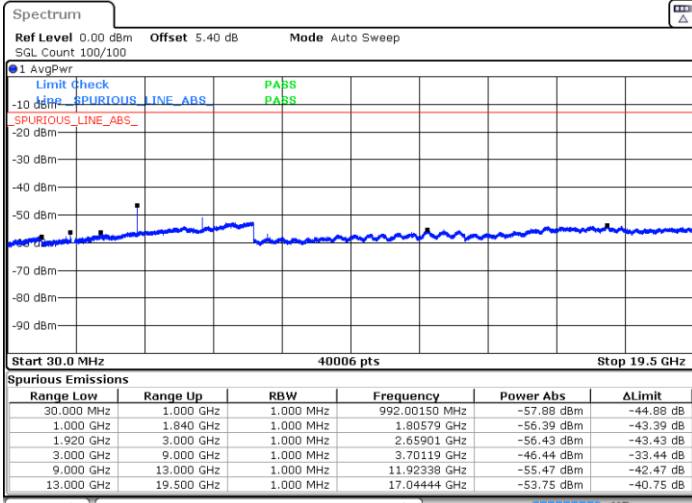




LTE Band 2 / 5MHz

Lowest Channel / QPSK

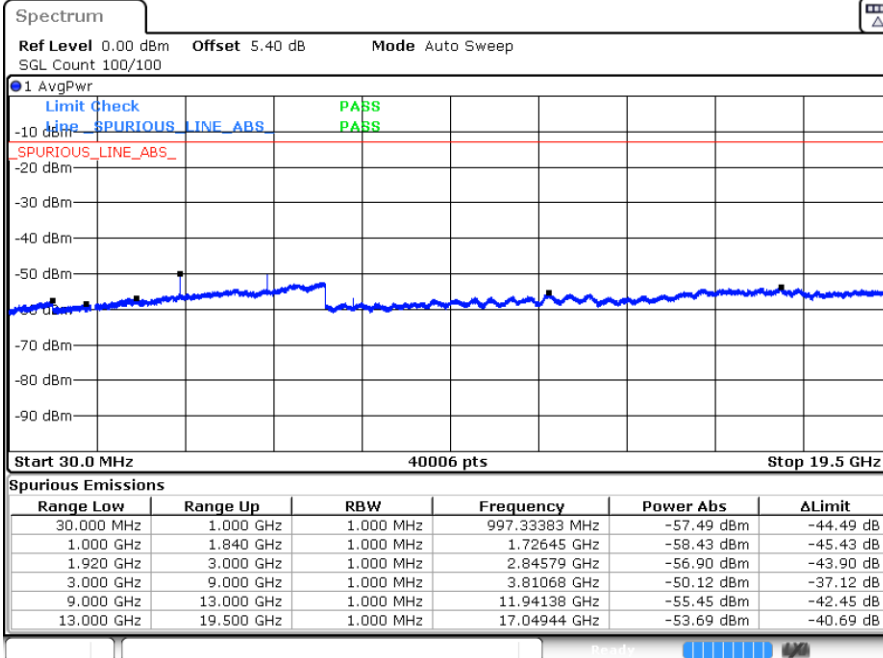
Middle Channel / QPSK



Date: 24.SEP.2022 20:11:10

Date: 24.SEP.2022 20:20:30

Highest Channel / QPSK



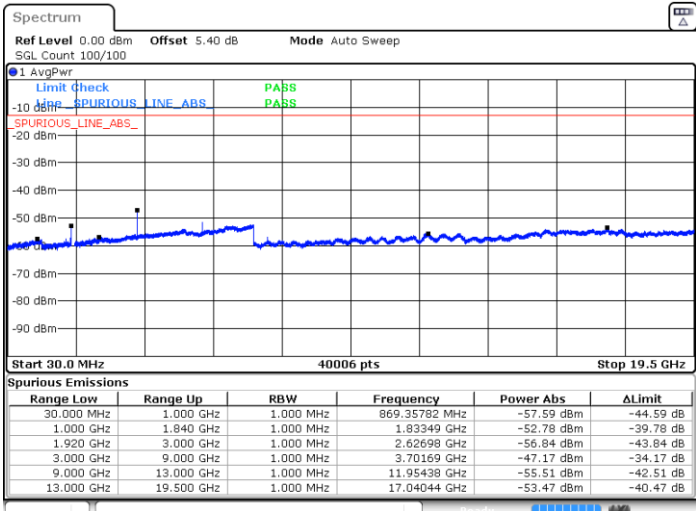
Date: 24.SEP.2022 20:21:51



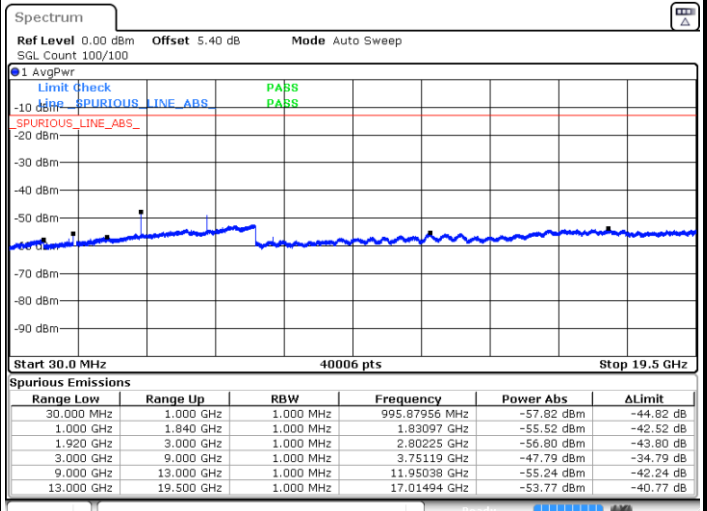
LTE Band 2 / 10MHz

Lowest Channel / QPSK

Middle Channel / QPSK

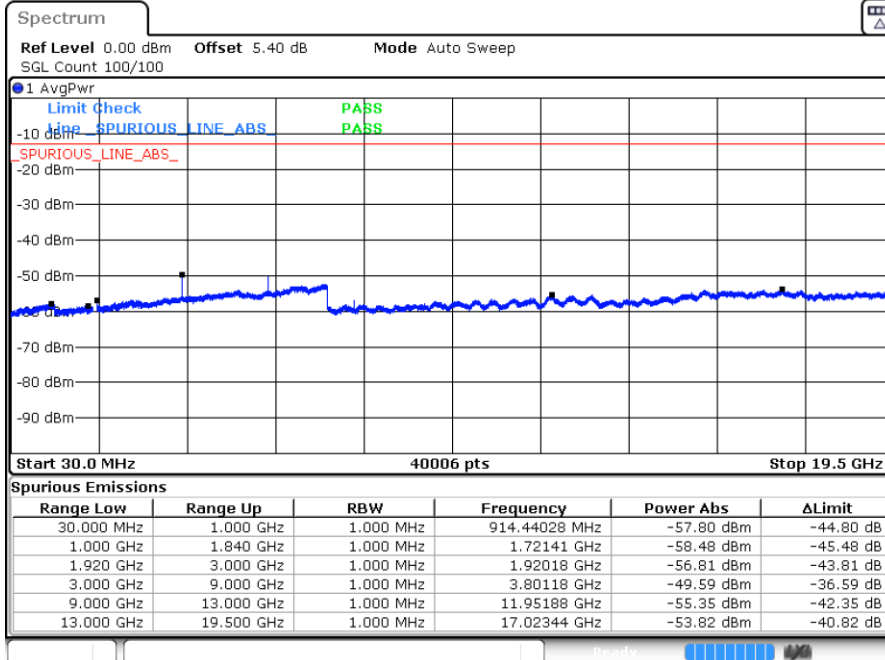


Date: 24.SEP.2022 20:31:15



Date: 24.SEP.2022 20:41:20

Highest Channel / QPSK



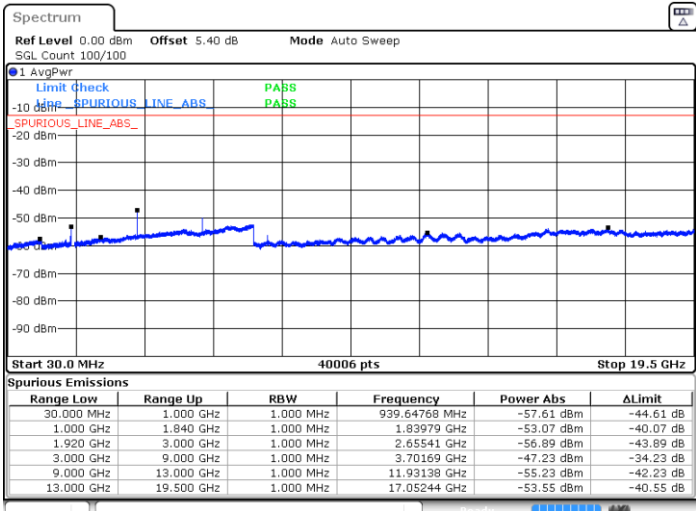
Date: 24.SEP.2022 20:42:41



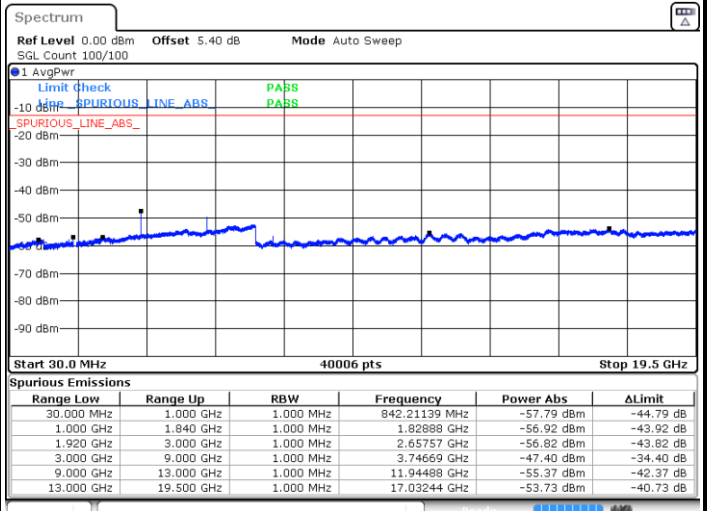
LTE Band 2 / 15MHz

Lowest Channel / QPSK

Middle Channel / QPSK

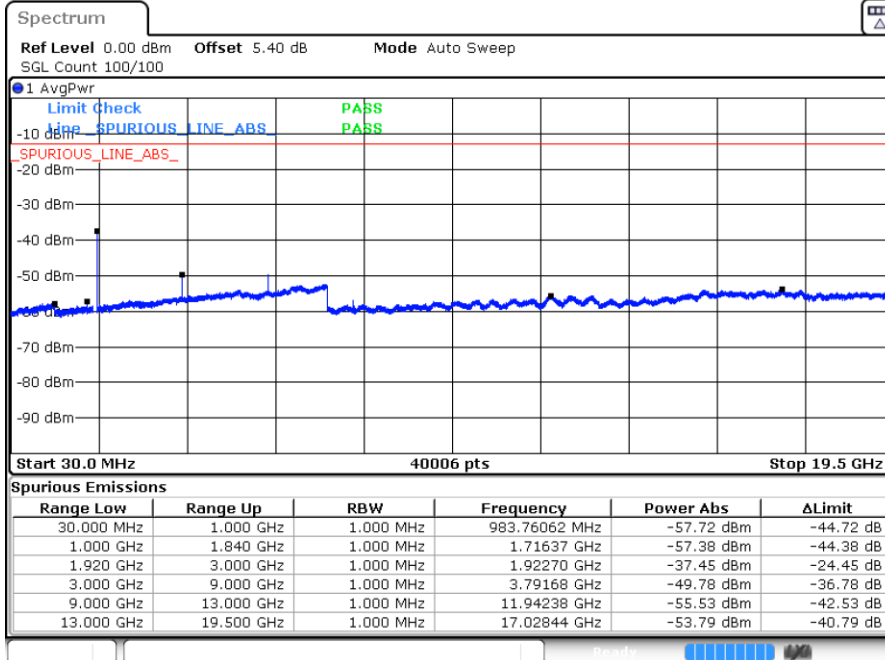


Date: 24.SEP.2022 20:52:03



Date: 24.SEP.2022 21:01:24

Highest Channel / QPSK



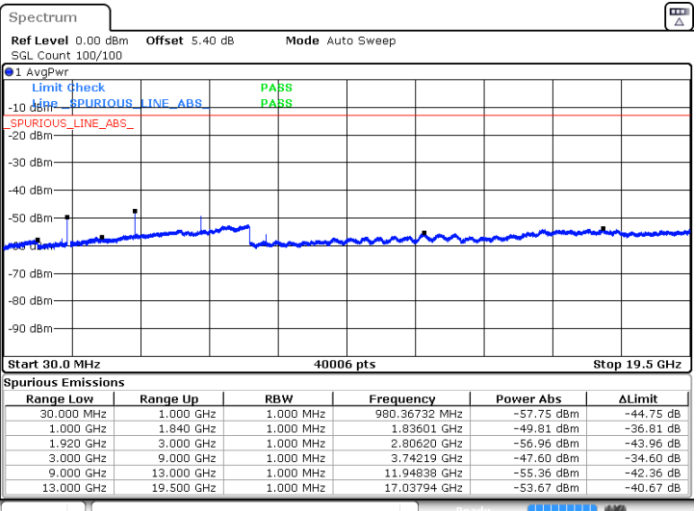
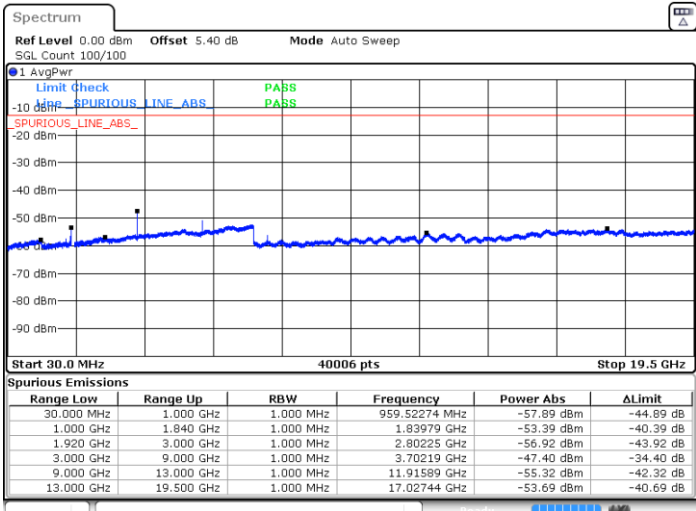
Date: 24.SEP.2022 21:02:45



LTE Band 2 / 20MHz

Lowest Channel / QPSK

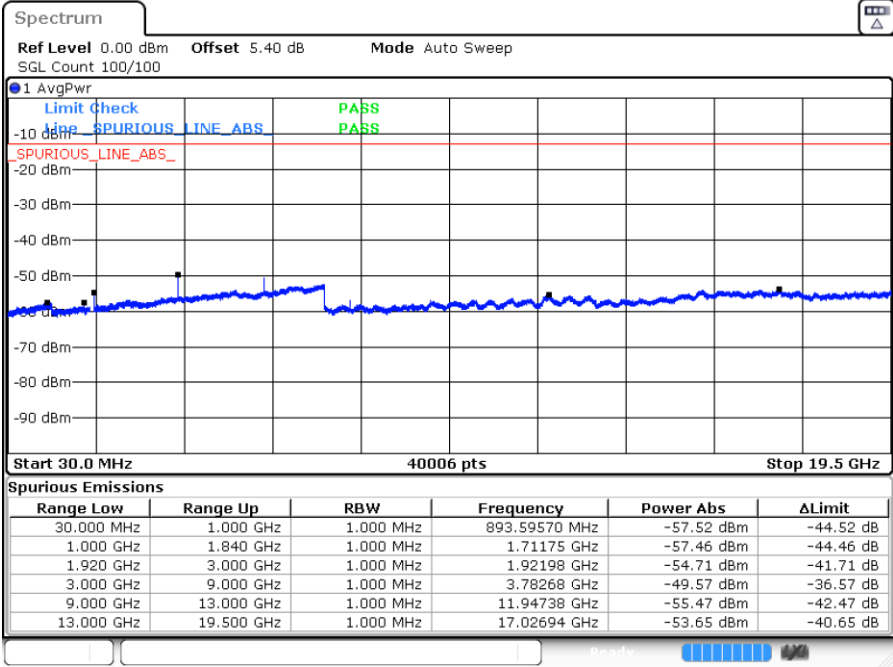
Middle Channel / QPSK



Date: 24.SEP.2022 21:12:06

Date: 24.SEP.2022 21:21:27

Highest Channel / QPSK



Date: 24.SEP.2022 21:22:48



Frequency Stability

Test Conditions		LTE Band 2 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0022	PASS
40	Normal Voltage	0.0016	
30	Normal Voltage	0.0005	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0011	
0	Normal Voltage	0.0006	
-10	Normal Voltage	0.0013	
-20	Normal Voltage	0.0008	
-30	Normal Voltage	0.0017	
20	Maximum Voltage	0.0004	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0015	

Note:

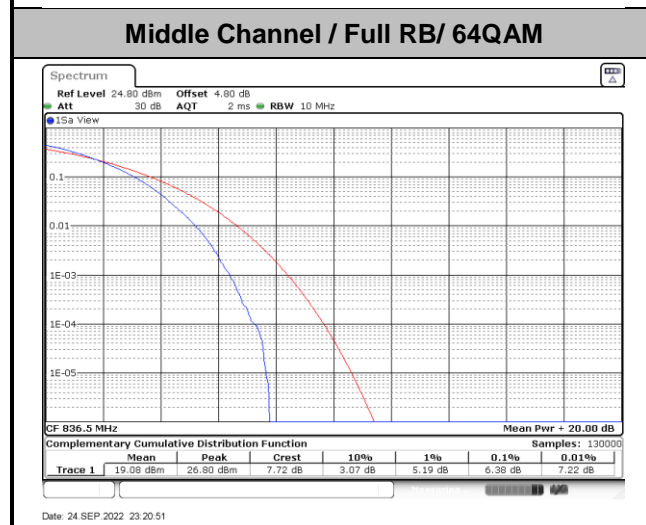
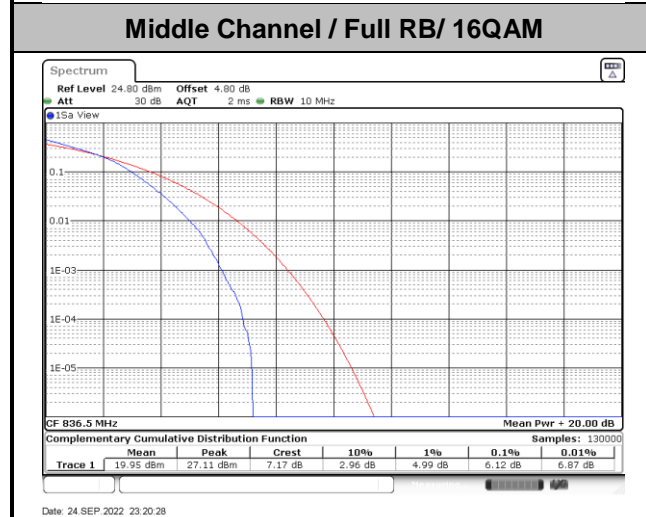
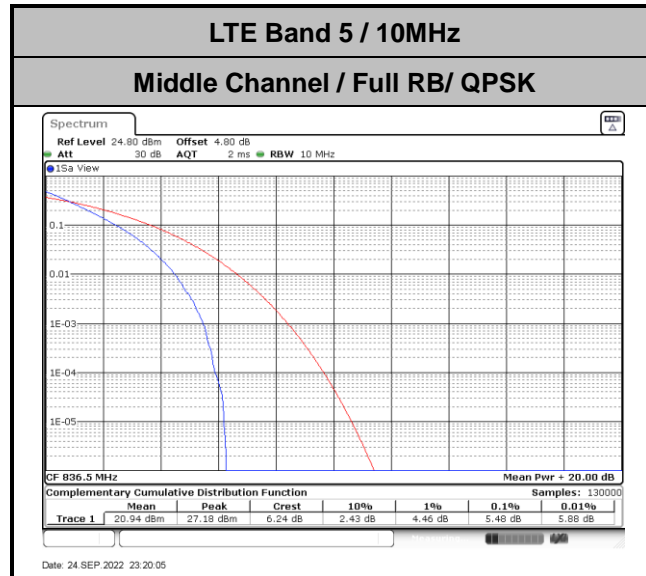
1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.2V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 5

Peak-to-Average Ratio

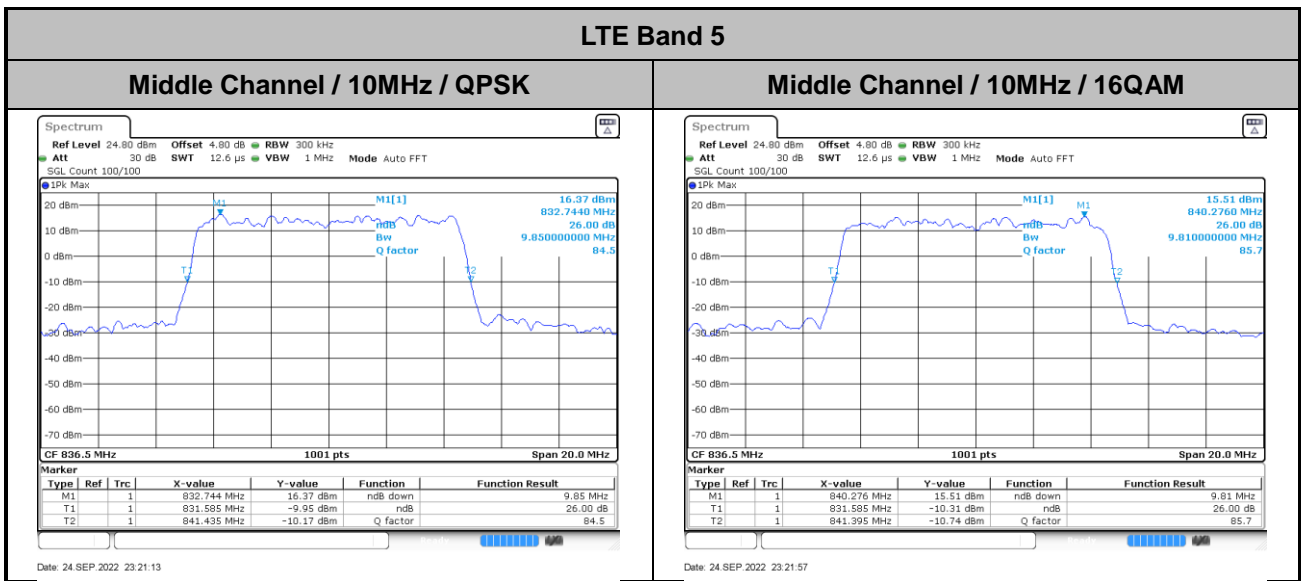
Mode	LTE Band 5 / 10MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	5.48	6.12	6.38	PASS





26dB Bandwidth

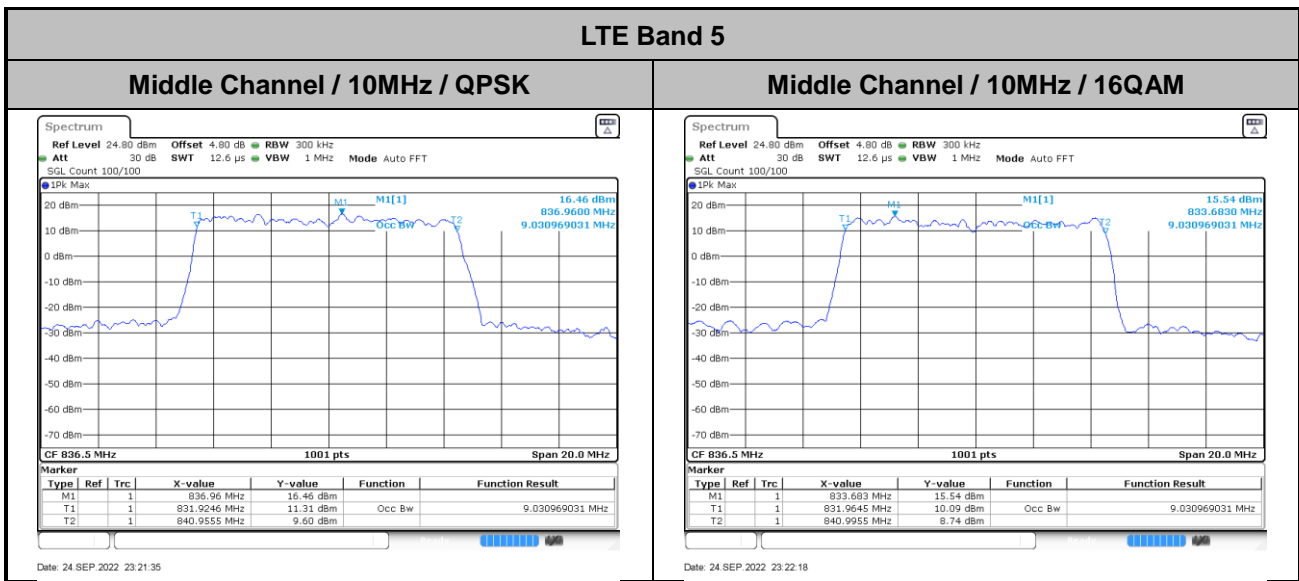
Mode	LTE Band 5 : 26dB BW(MHz)	
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.85	9.81





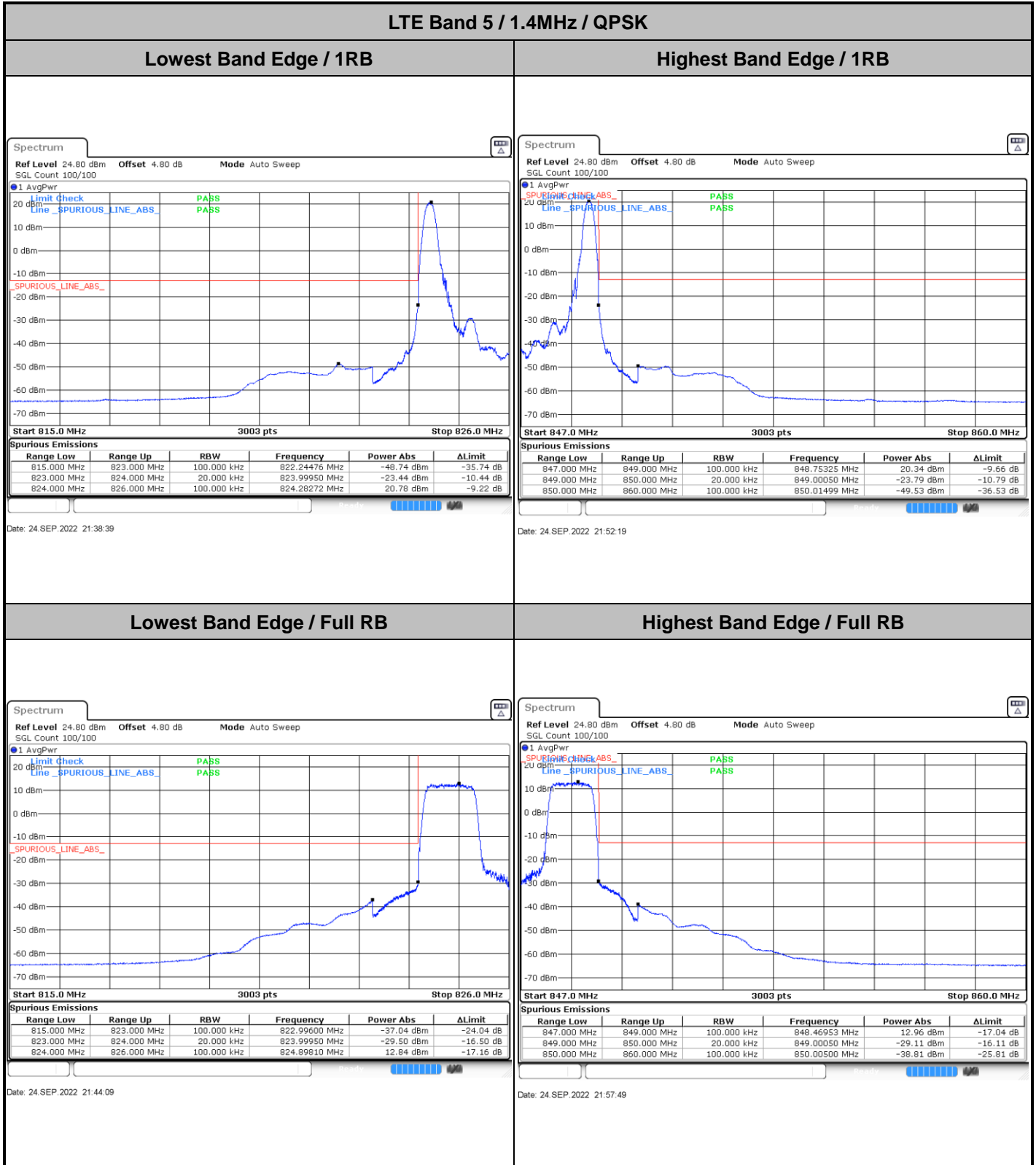
Occupied Bandwidth

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





Conducted Band Edge





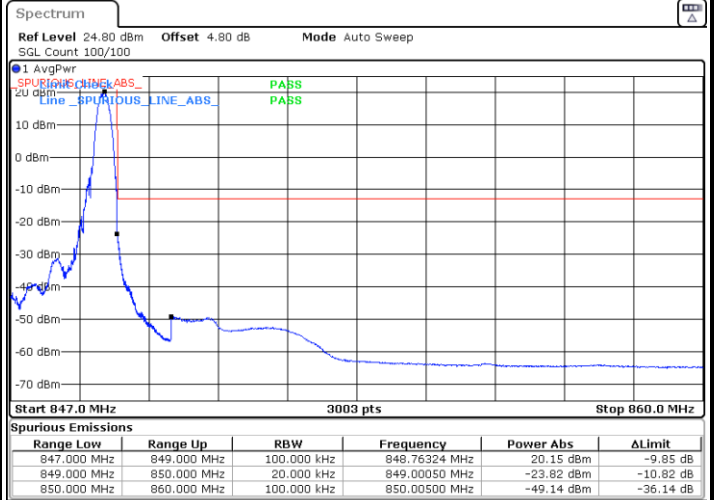
LTE Band 5 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



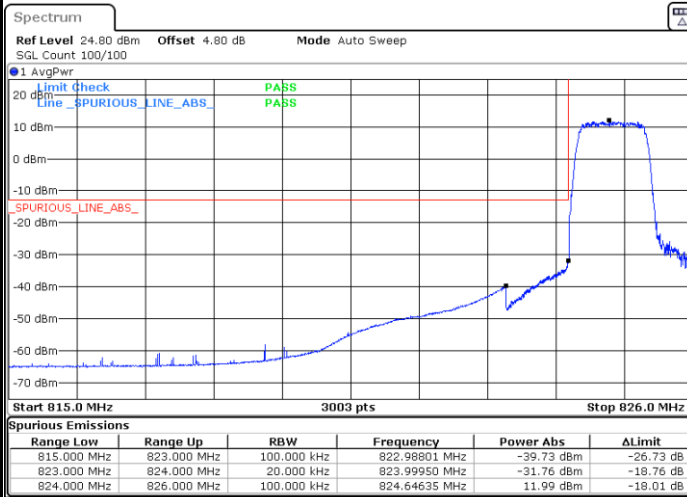
Date: 24.SEP.2022 21:40:29

Highest Band Edge / 1 RB



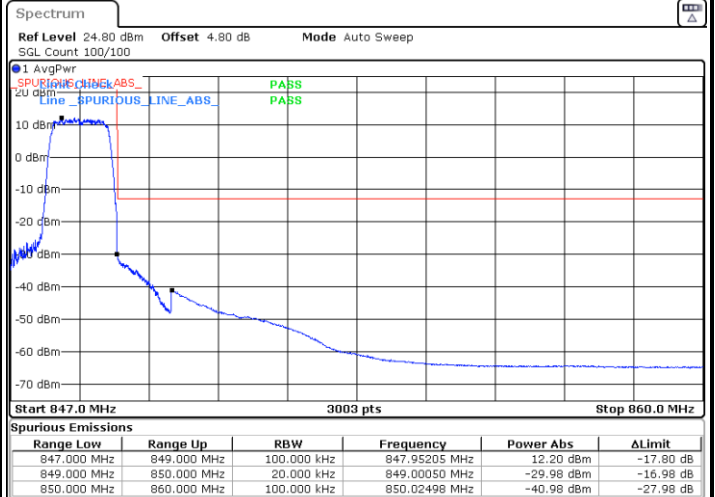
Date: 24.SEP.2022 21:54:09

Lowest Band Edge / Full RB



Date: 24.SEP.2022 21:45:59

Highest Band Edge / Full RB

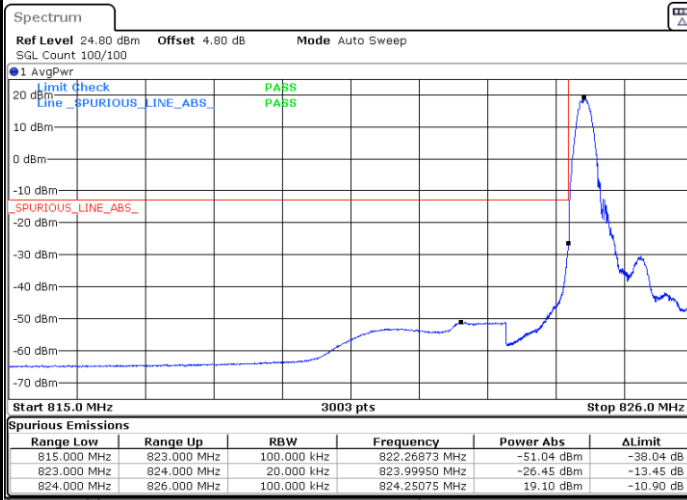


Date: 24.SEP.2022 21:59:39



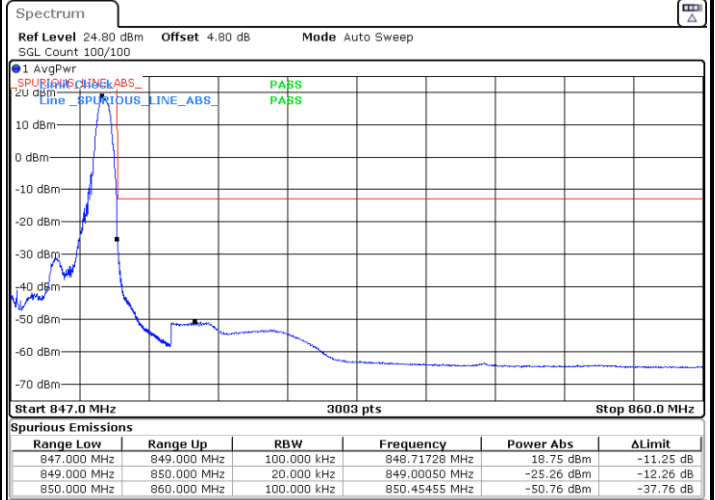
LTE Band 5 / 1.4MHz / 64QAM

Lowest Band Edge / 1 RB



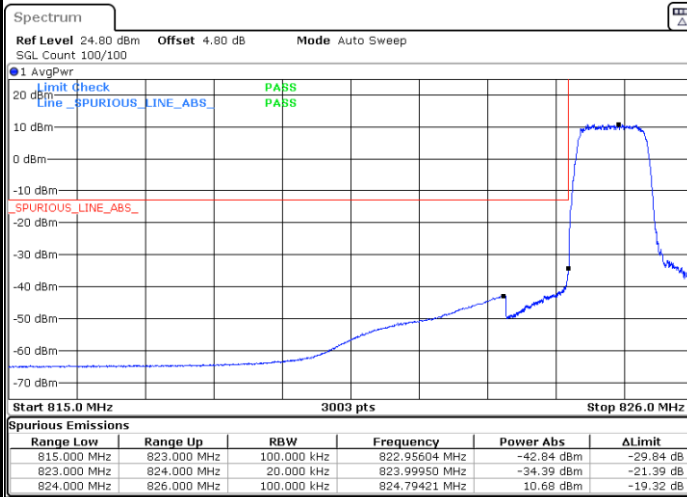
Date: 24.SEP.2022 21:42:19

Highest Band Edge / 1 RB



Date: 24.SEP.2022 21:55:59

Lowest Band Edge / Full RB



Date: 24.SEP.2022 21:47:49

Highest Band Edge / Full RB

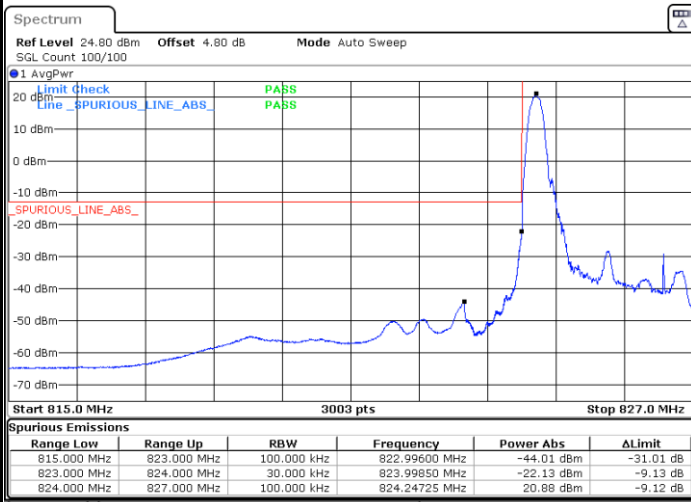


Date: 24.SEP.2022 22:01:29



LTE Band 5 / 3MHz / QPSK

Lowest Band Edge / 1RB



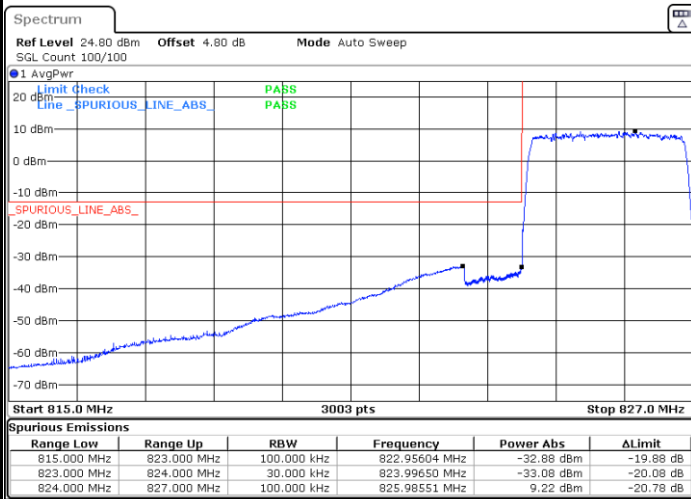
Date: 24.SEP.2022 22:04:40

Highest Band Edge / 1 RB



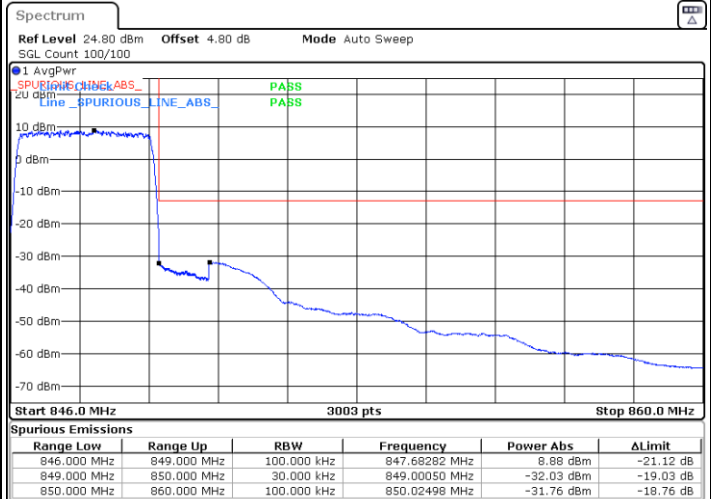
Date: 24.SEP.2022 22:18:25

Lowest Band Edge / Full RB



Date: 24.SEP.2022 22:10:10

Highest Band Edge / Full RB



Date: 24.SEP.2022 22:23:55



LTE Band 5 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



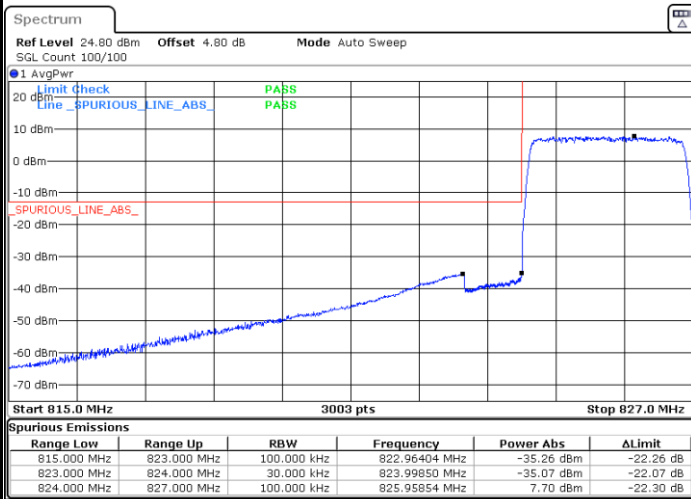
Date: 24.SEP.2022 22:06:30

Highest Band Edge / 1 RB



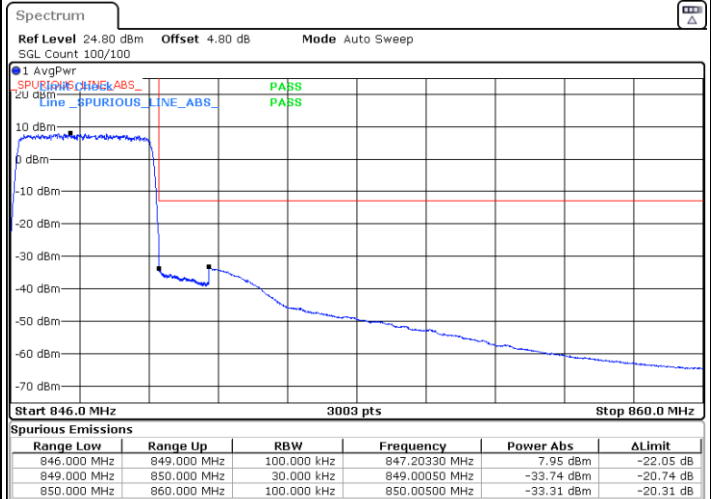
Date: 24.SEP.2022 22:20:15

Lowest Band Edge / Full RB



Date: 24.SEP.2022 22:12:00

Highest Band Edge / Full RB

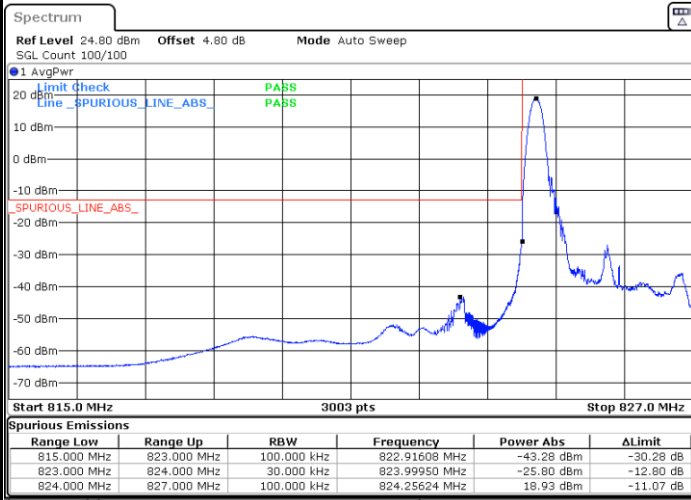


Date: 24.SEP.2022 22:25:46



LTE Band 5 / 3MHz / 64QAM

Lowest Band Edge / 1 RB



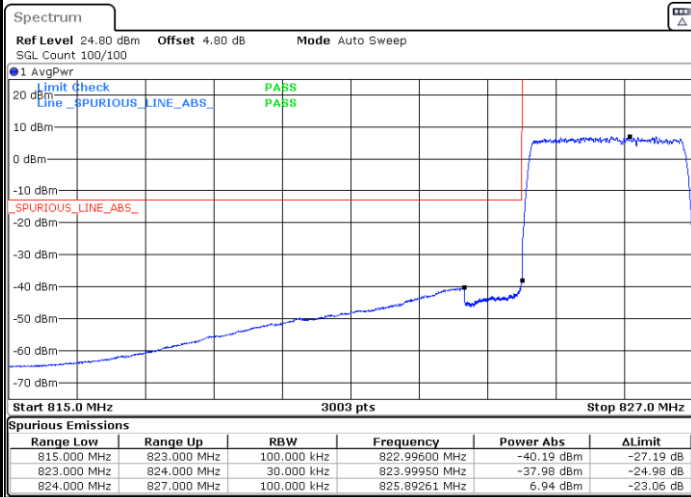
Date: 24.SEP.2022 22:08:20

Highest Band Edge / 1 RB



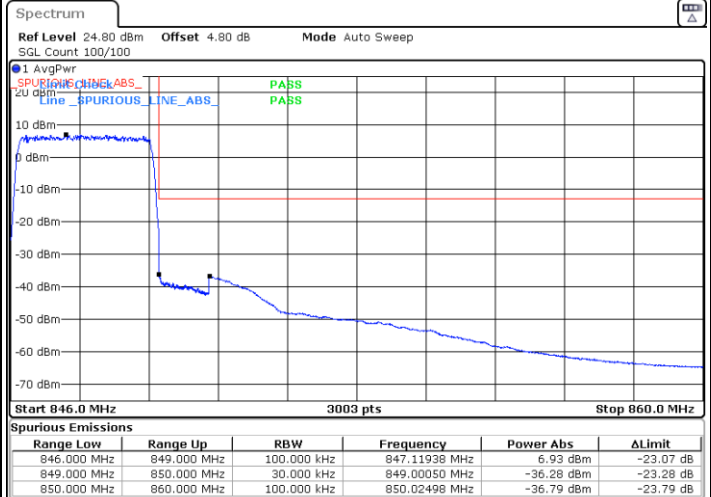
Date: 24.SEP.2022 22:22:05

Lowest Band Edge / Full RB



Date: 24.SEP.2022 22:13:51

Highest Band Edge / Full RB

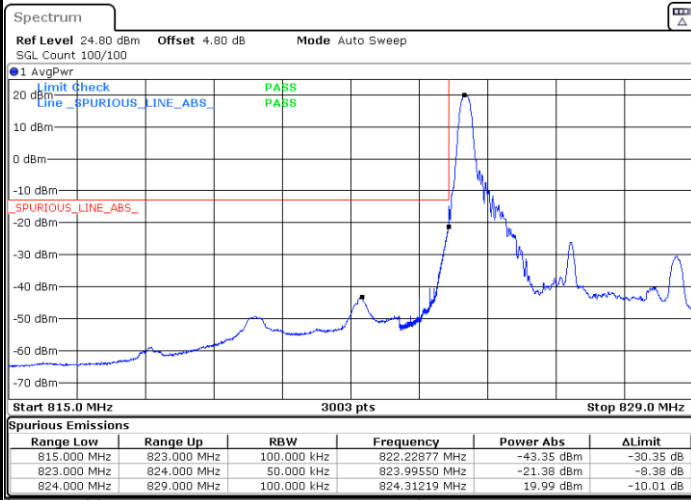


Date: 24.SEP.2022 22:27:36



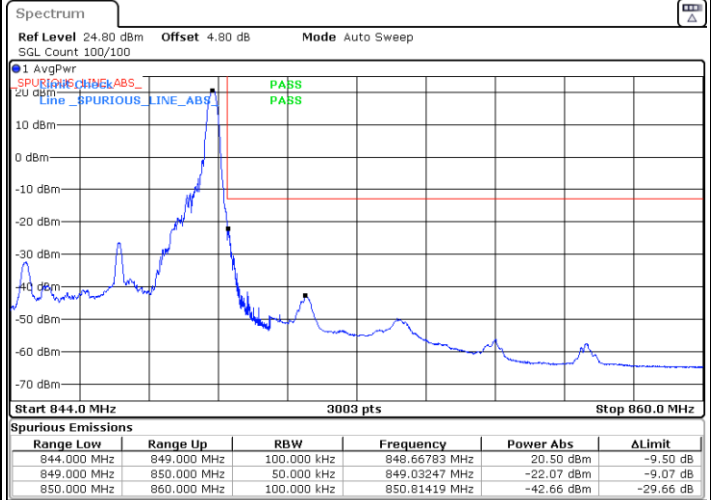
LTE Band 5 / 5MHz / QPSK

Lowest Band Edge / 1 RB



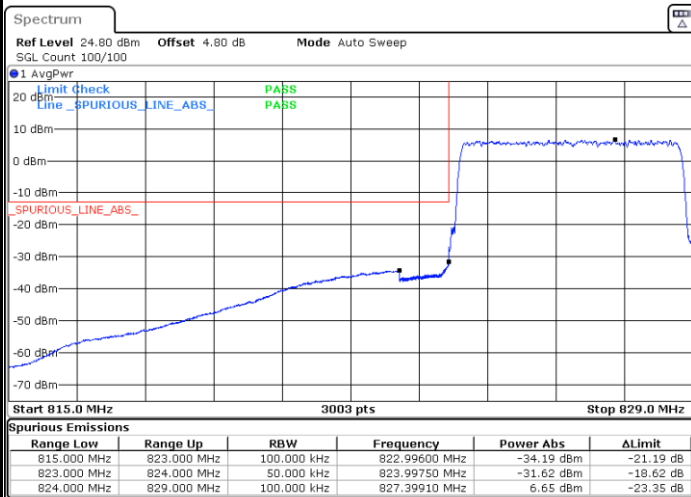
Date: 24.SEP.2022 22:30:47

Highest Band Edge / 1 RB



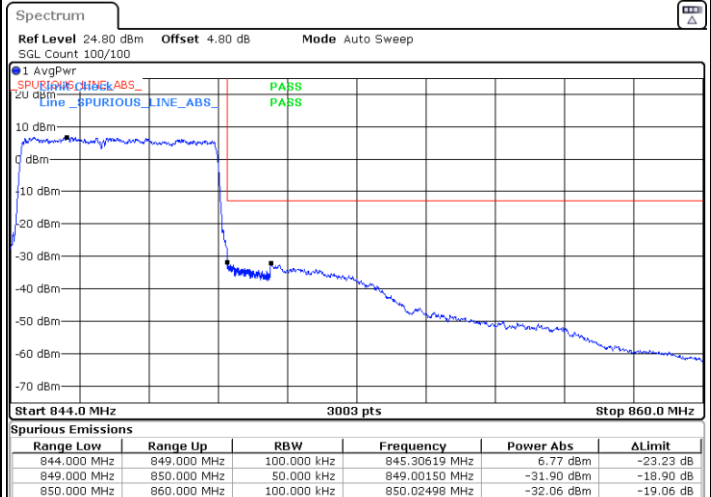
Date: 24.SEP.2022 22:44:31

Lowest Band Edge / Full RB



Date: 24.SEP.2022 22:36:18

Highest Band Edge / Full RB

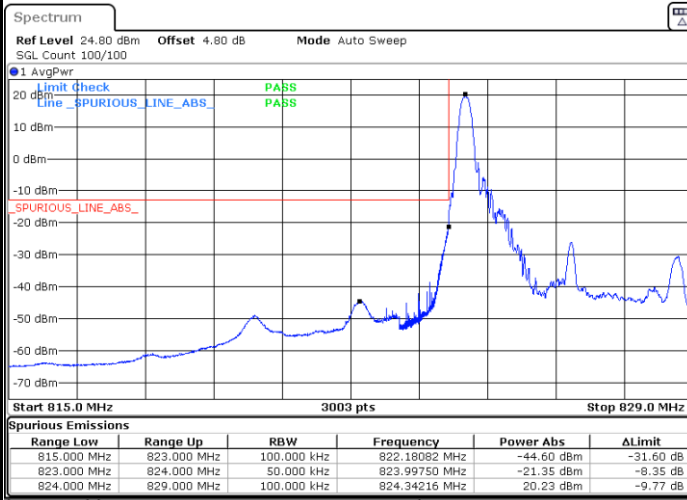


Date: 24.SEP.2022 22:50:01



LTE Band 5 / 5MHz / 16QAM

Lowest Band Edge / 1RB



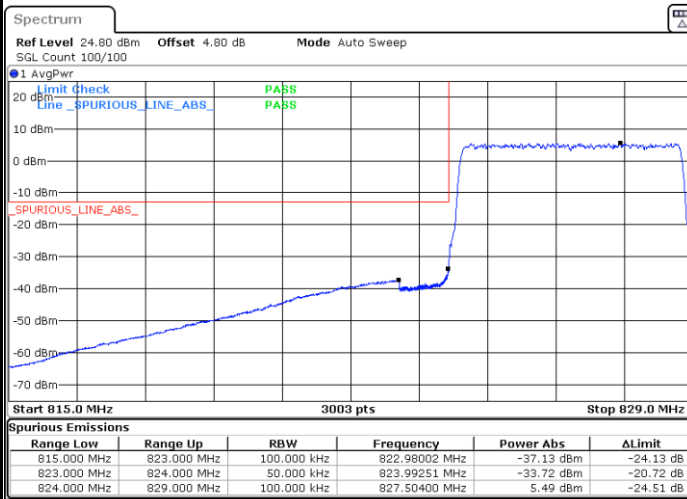
Date: 24.SEP.2022 22:32:37

Highest Band Edge / 1 RB



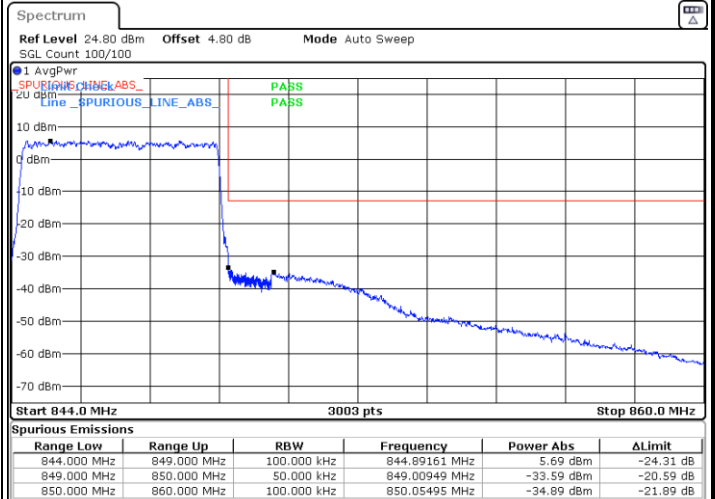
Date: 24.SEP.2022 22:46:21

Lowest Band Edge / Full RB



Date: 24.SEP.2022 22:38:10

Highest Band Edge / Full RB

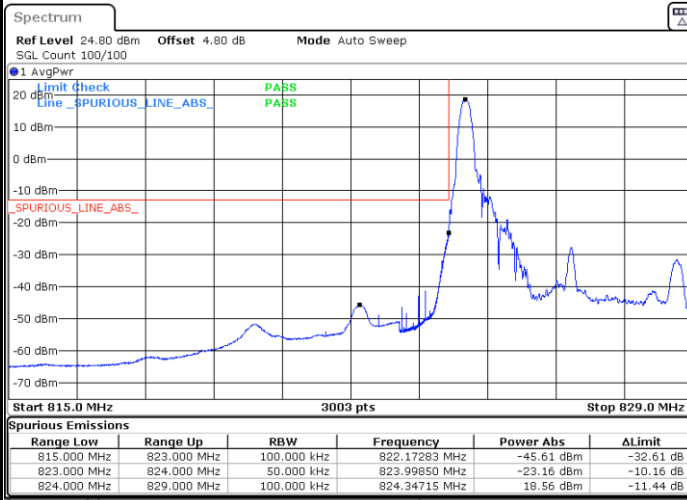


Date: 24.SEP.2022 22:51:51



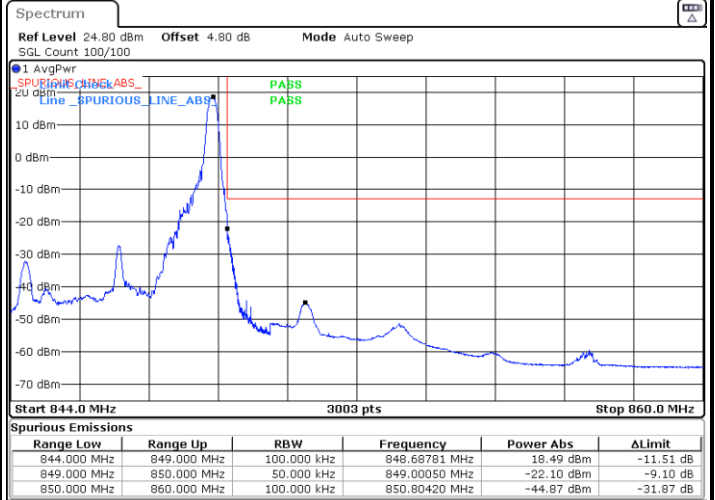
LTE Band 5 / 5MHz / 64QAM

Lowest Band Edge / 1RB



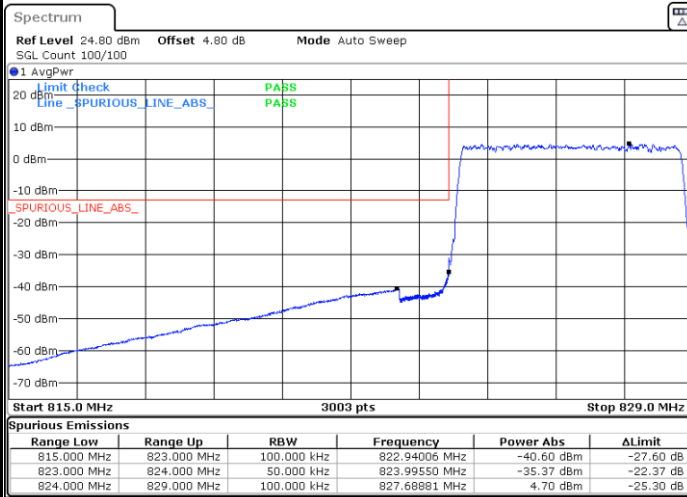
Date: 24.SEP.2022 22:34:27

Highest Band Edge / 1 RB



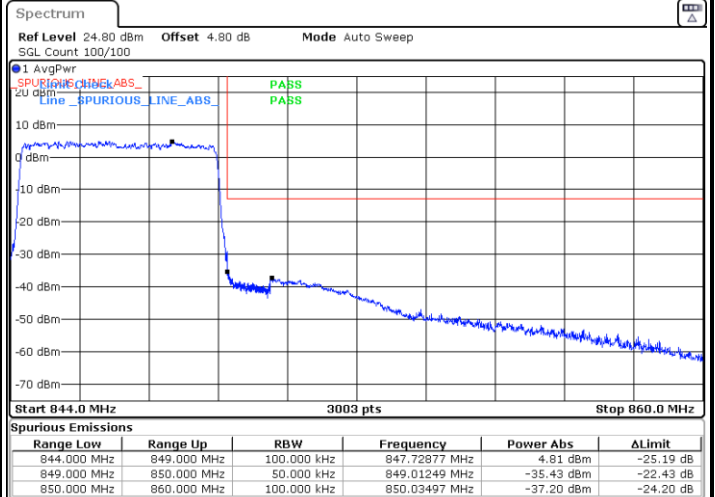
Date: 24.SEP.2022 22:48:11

Lowest Band Edge / Full RB



Date: 24.SEP.2022 22:40:00

Highest Band Edge / Full RB

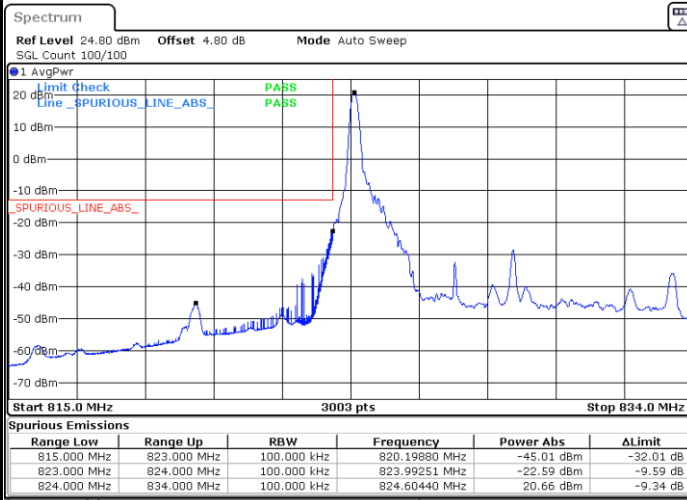


Date: 24.SEP.2022 22:53:41



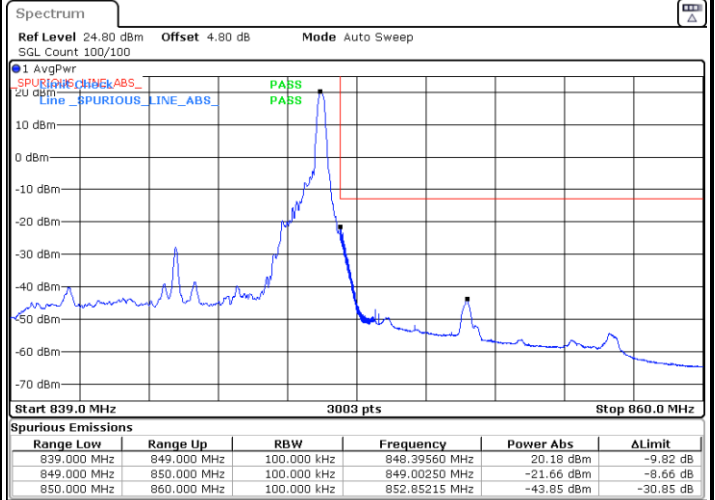
LTE Band 5 / 10MHz / QPSK

Lowest Band Edge / 1 RB



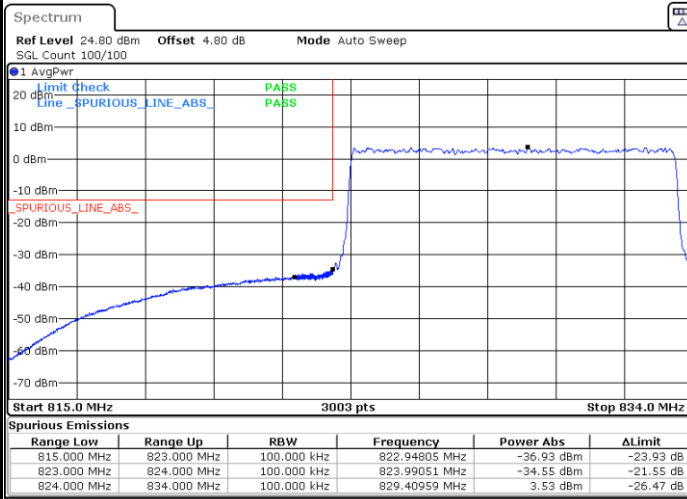
Date: 24.SEP.2022 22:56:52

Highest Band Edge / 1 RB



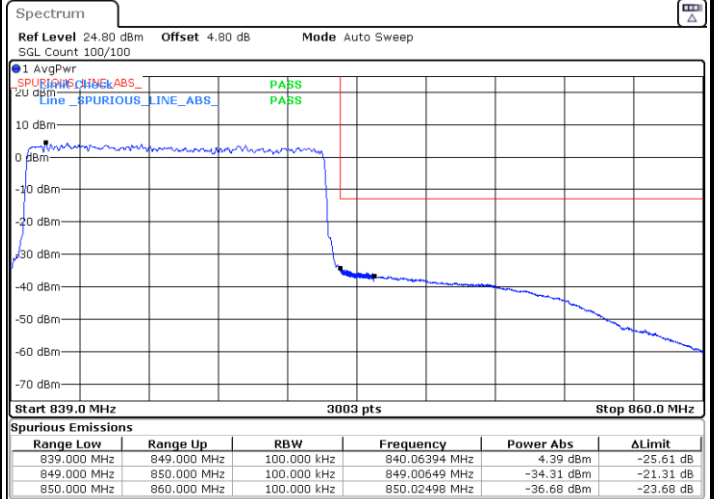
Date: 24.SEP.2022 23:10:33

Lowest Band Edge / Full RB



Date: 24.SEP.2022 23:02:22

Highest Band Edge / Full RB

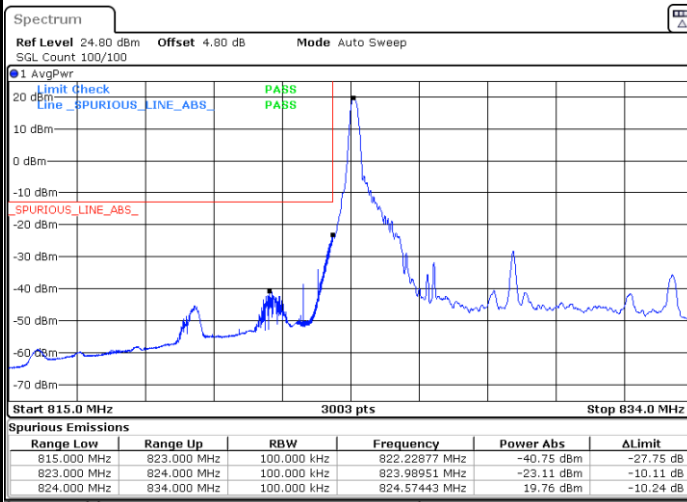


Date: 24.SEP.2022 23:16:03



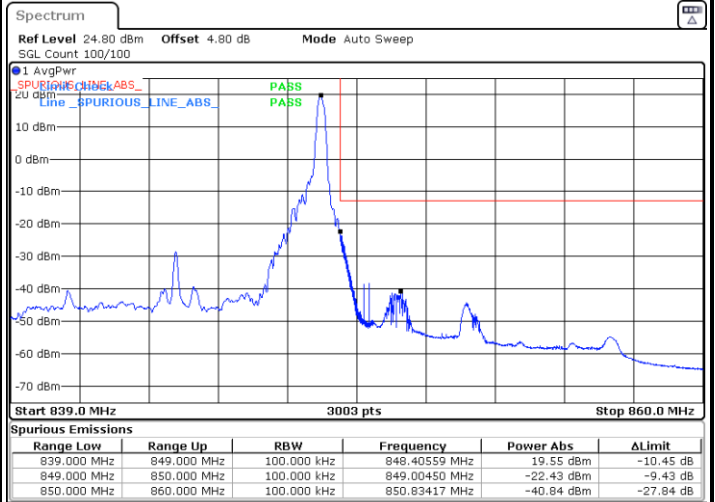
LTE Band 5 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



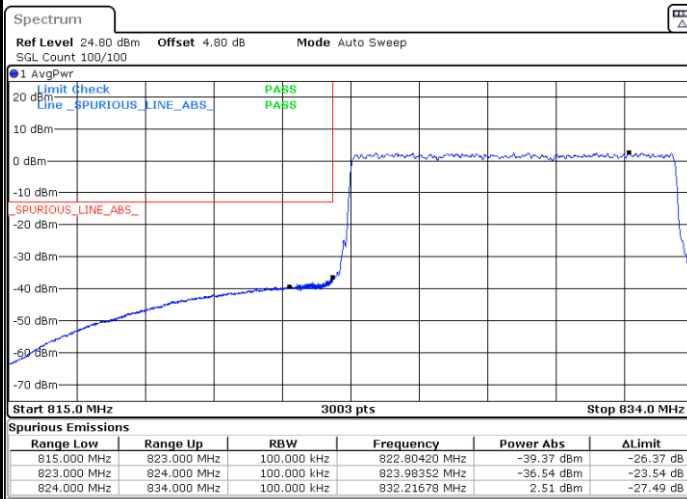
Date: 24.SEP.2022 22:58:42

Highest Band Edge / 1 RB



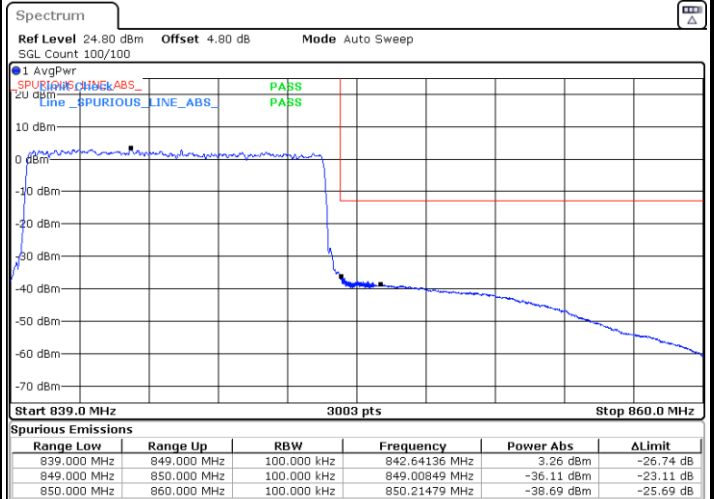
Date: 24.SEP.2022 23:12:23

Lowest Band Edge / Full RB



Date: 24.SEP.2022 23:04:12

Highest Band Edge / Full RB

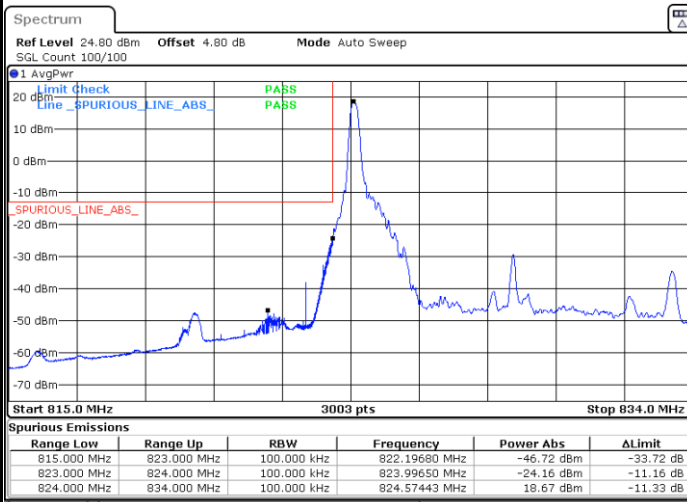


Date: 24.SEP.2022 23:17:53



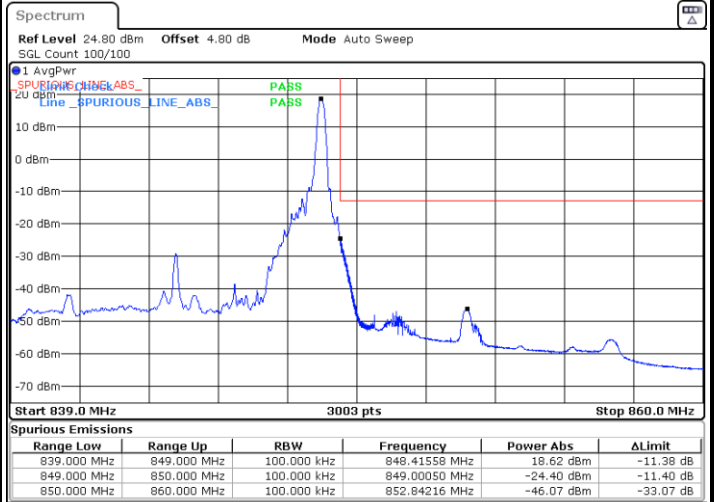
LTE Band 5 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



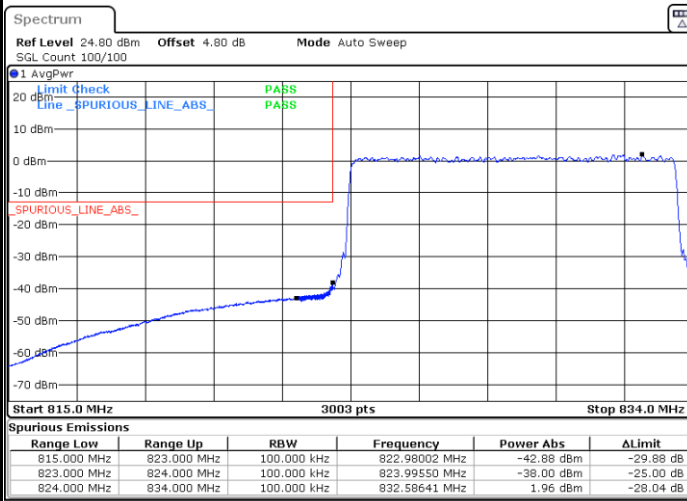
Date: 24.SEP.2022 23:00:32

Highest Band Edge / 1 RB



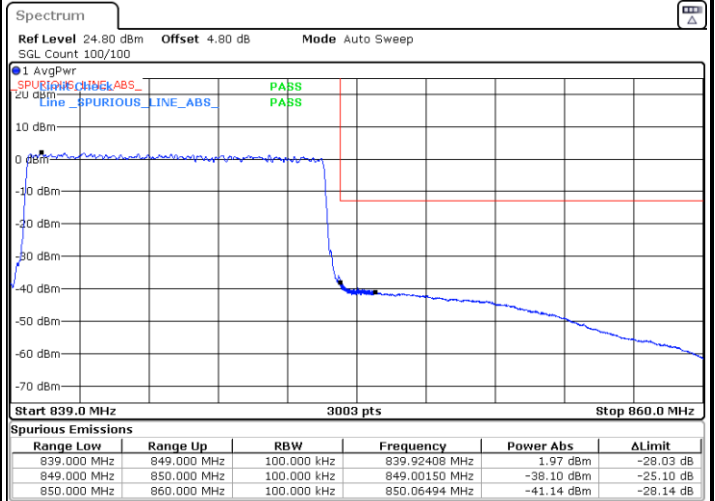
Date: 24.SEP.2022 23:14:13

Lowest Band Edge / Full RB



Date: 24.SEP.2022 23:06:02

Highest Band Edge / Full RB



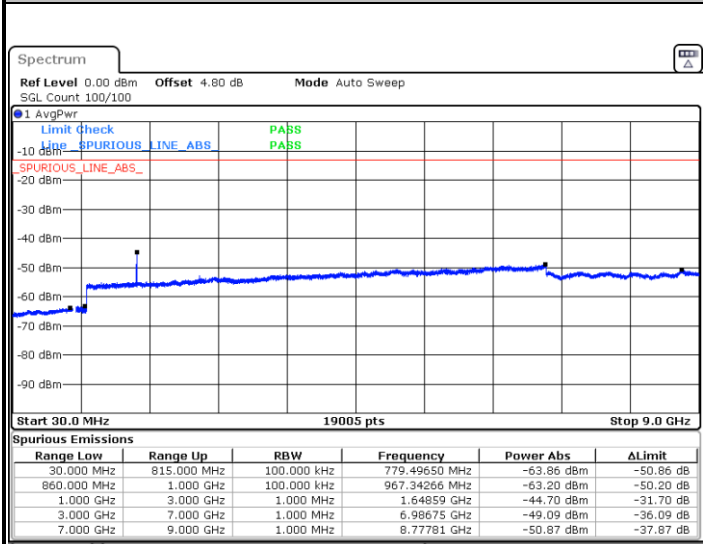
Date: 24.SEP.2022 23:19:43



Conducted Spurious Emission

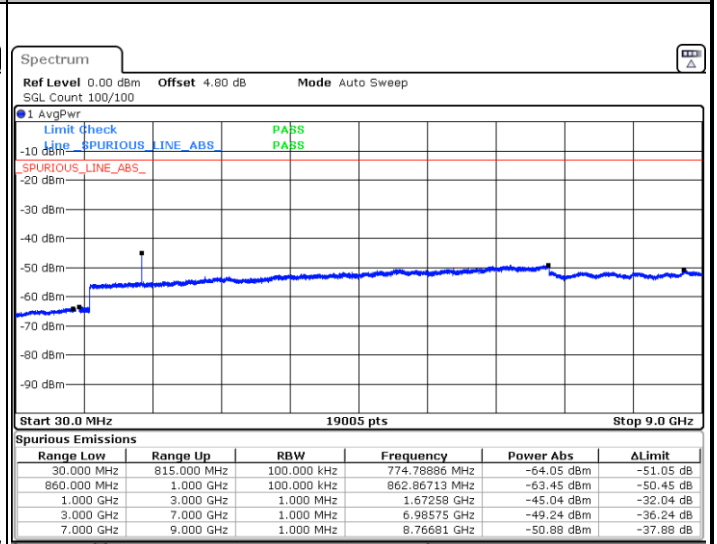
LTE Band 5 / 1.4MHz

Lowest Channel / QPSK



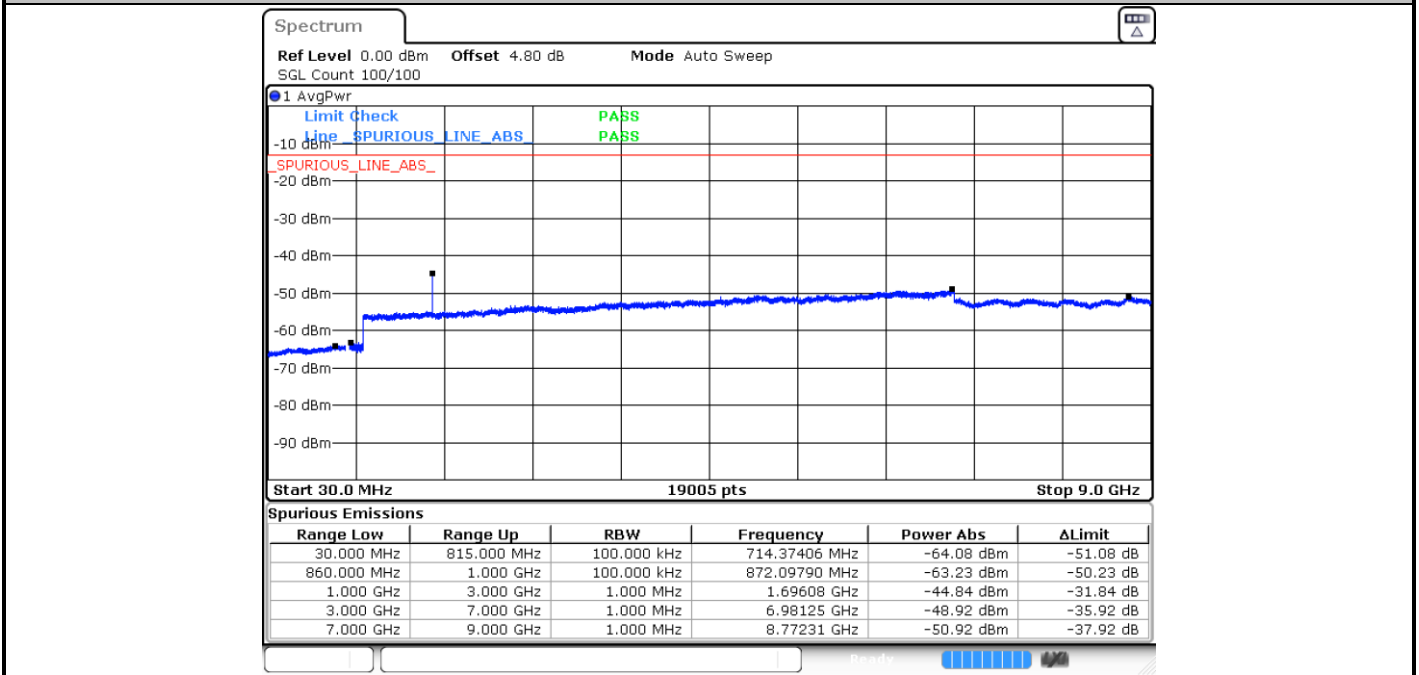
Date: 24 SEP. 2022 21:36:49

Middle Channel / QPSK



Date: 24 SEP. 2022 21:49:09

Highest Channel / QPSK



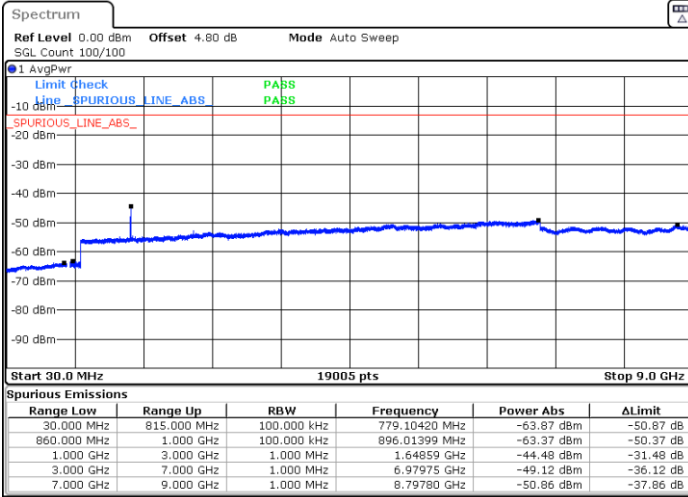
Date: 24 SEP. 2022 21:50:29



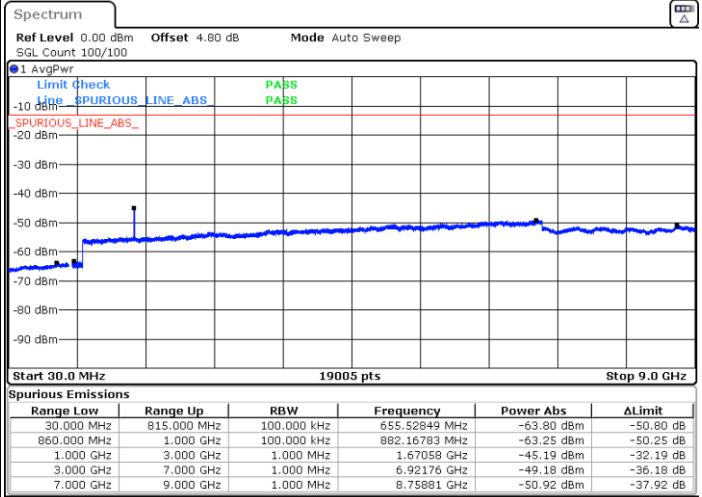
LTE Band 5 / 3MHz

Lowest Channel / QPSK

Middle Channel / QPSK

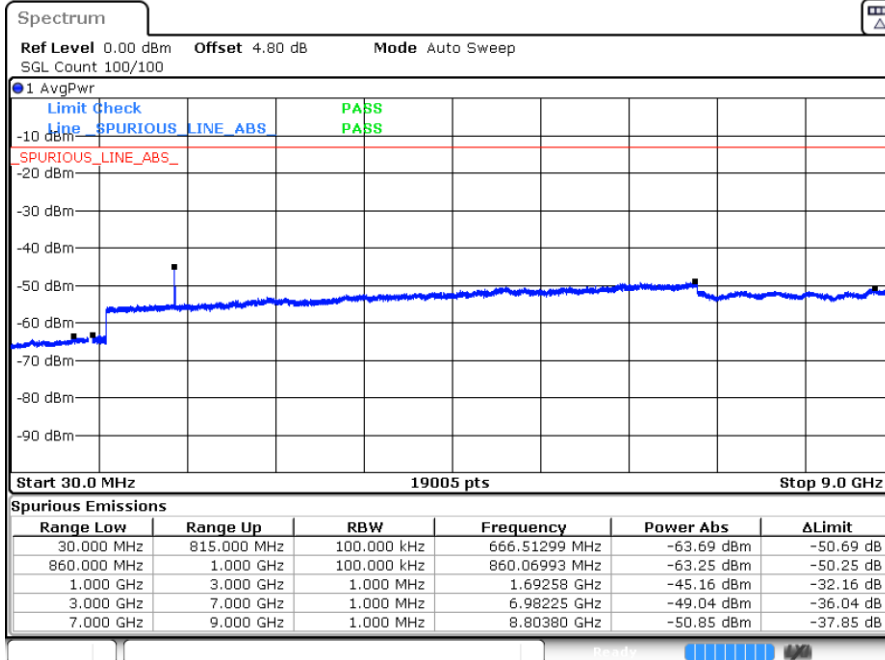


Date: 24.SEP.2022 22:02:50



Date: 24.SEP.2022 22:15:11

Highest Channel / QPSK



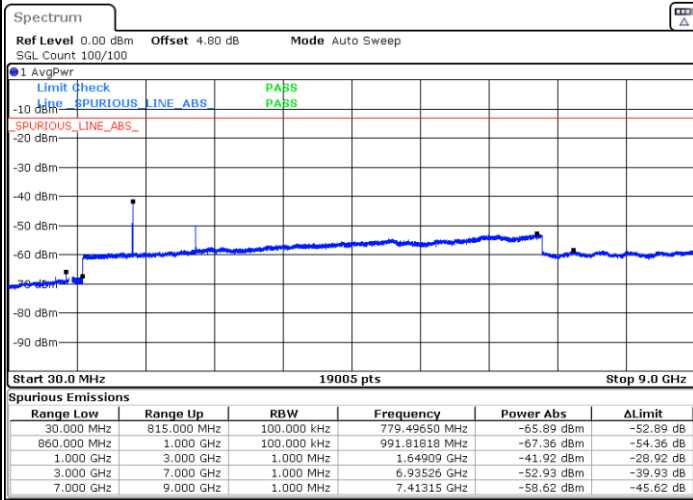
Date: 24.SEP.2022 22:16:31



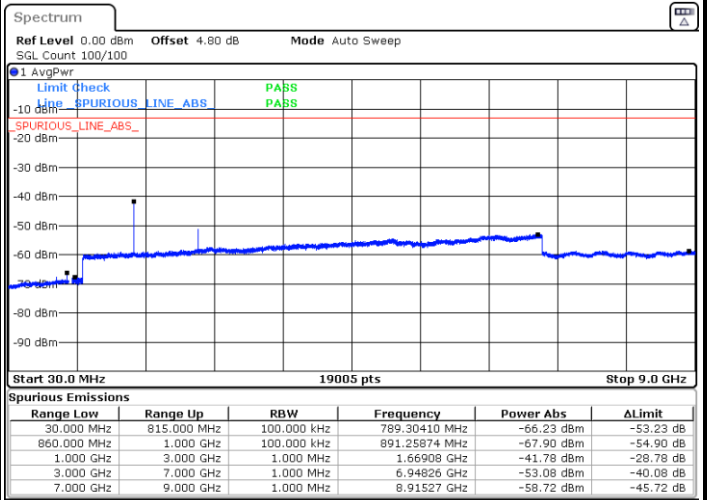
LTE Band 5 / 5MHz

Lowest Channel / QPSK

Middle Channel / QPSK

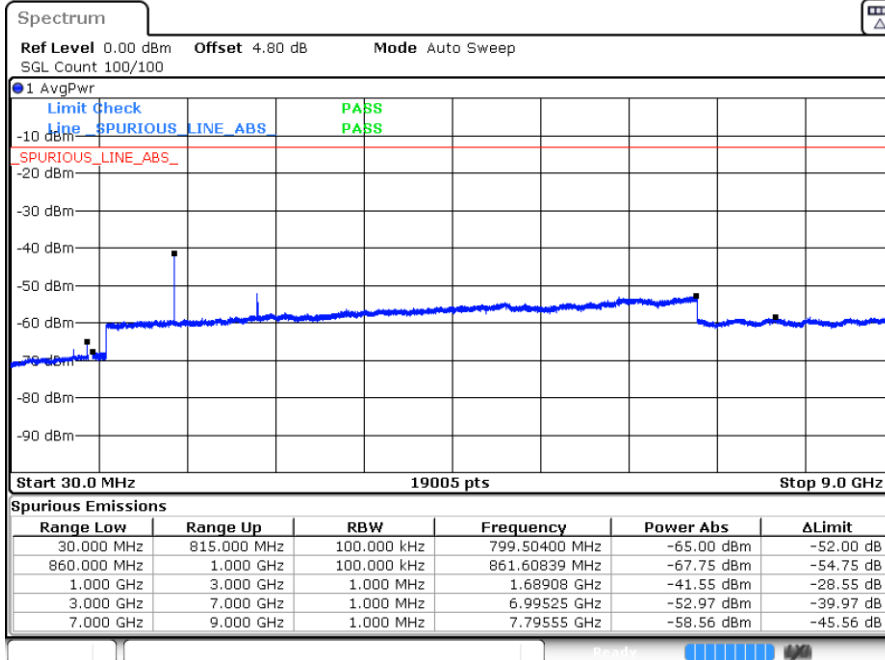


Date: 24.SEP.2022 22:28:57



Date: 24.SEP.2022 22:41:20

Highest Channel / QPSK



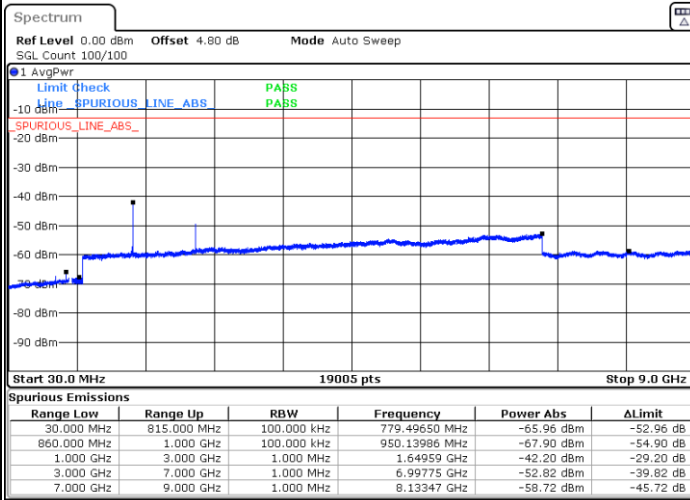
Date: 24.SEP.2022 22:42:41



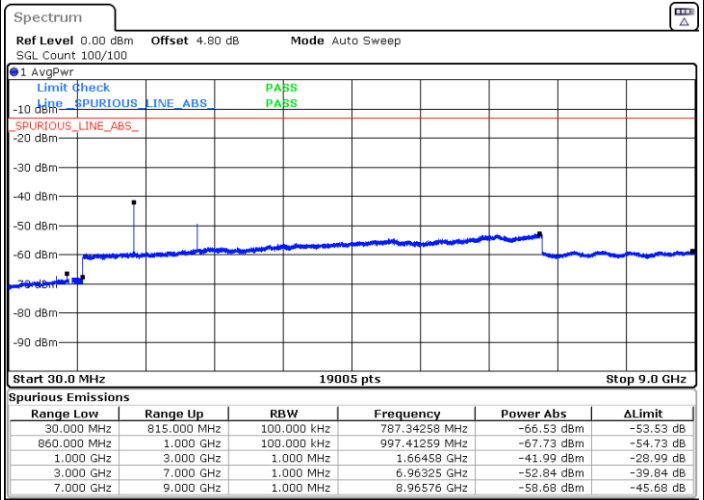
LTE Band 5 / 10MHz

Lowest Channel / QPSK

Middle Channel / QPSK

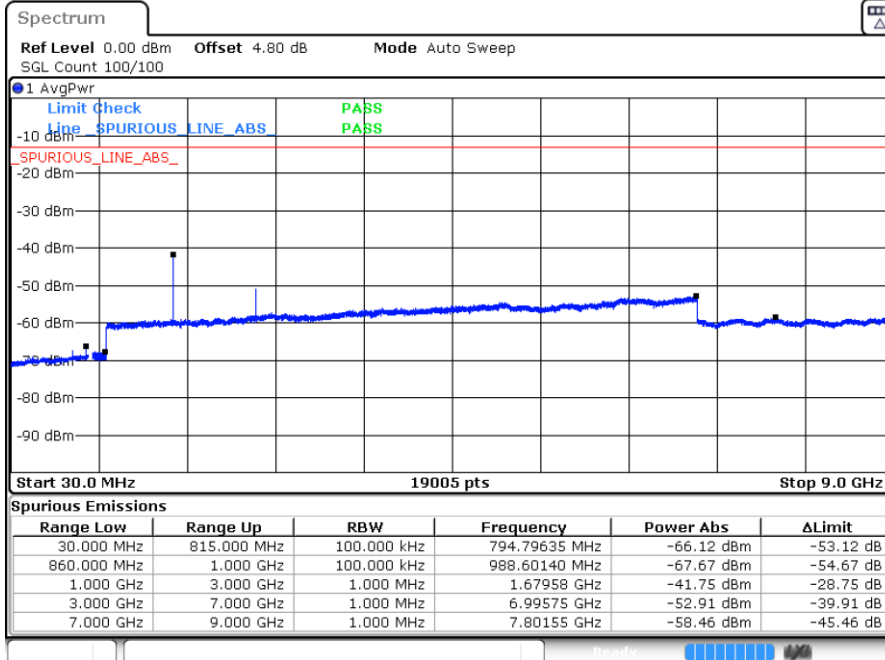


Date: 24.SEP.2022 22:55:02



Date: 24.SEP.2022 23:07:22

Highest Channel / QPSK



Date: 24.SEP.2022 23:08:43



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	0.0056	
30	Normal Voltage	0.0010	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0017	
0	Normal Voltage	0.0054	
-10	Normal Voltage	0.0048	
-20	Normal Voltage	0.0017	
-30	Normal Voltage	0.0019	
20	Maximum Voltage	0.0057	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0011	

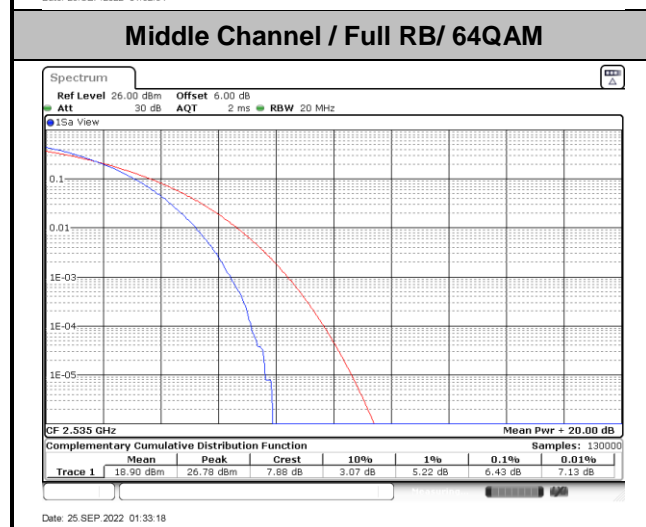
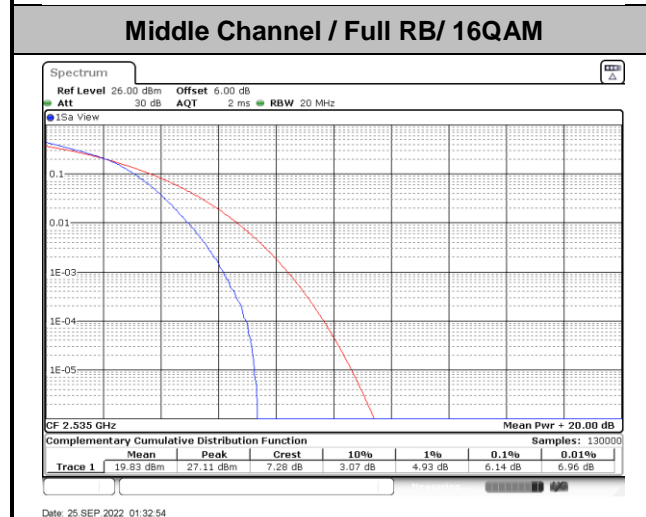
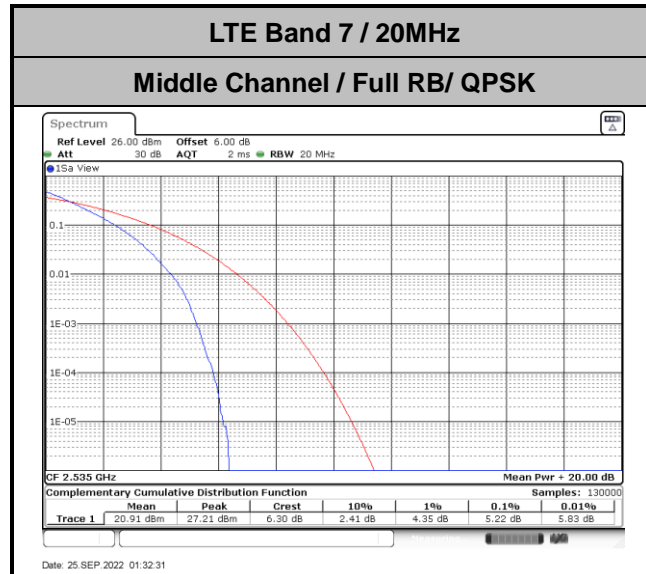
Note: Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.2 V.



LTE Band 7

Peak-to-Average Ratio

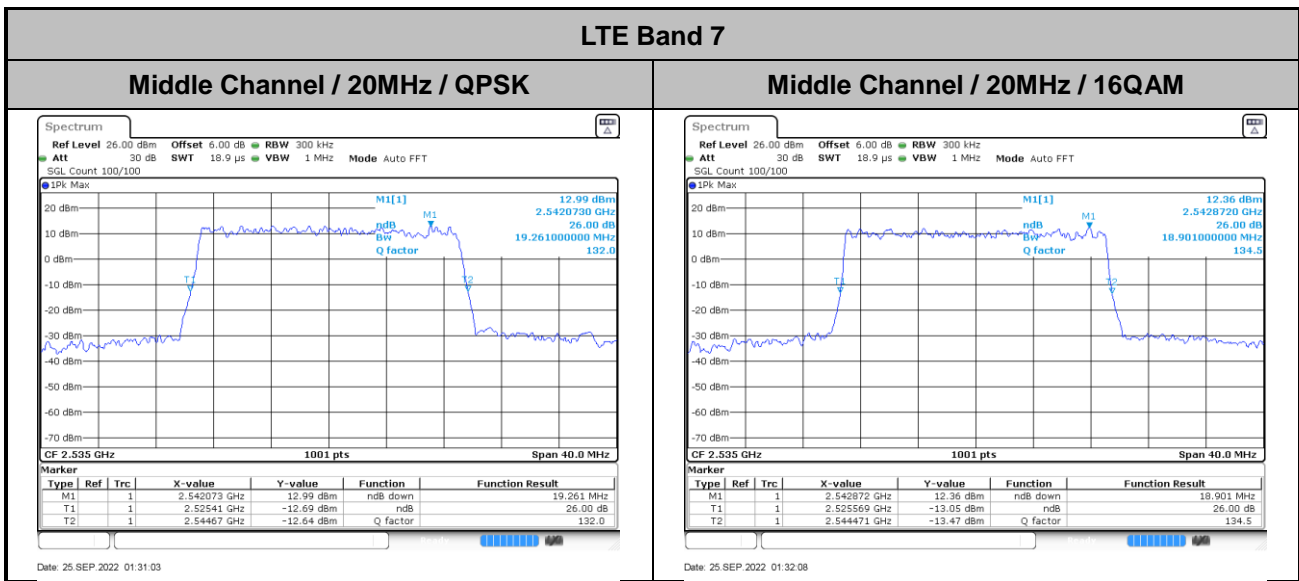
Mode	LTE Band 7 / 20MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	5.22	6.14	6.43	PASS





26dB Bandwidth

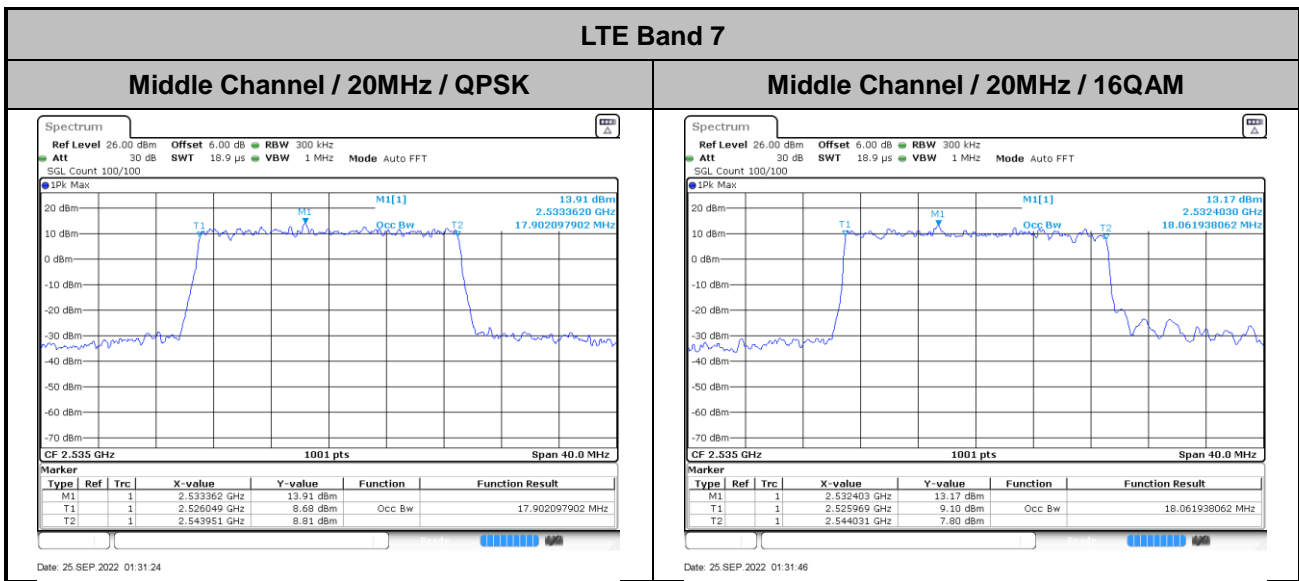
Mode	LTE Band 7 : 26dB BW(MHz)	
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	19.26	18.90





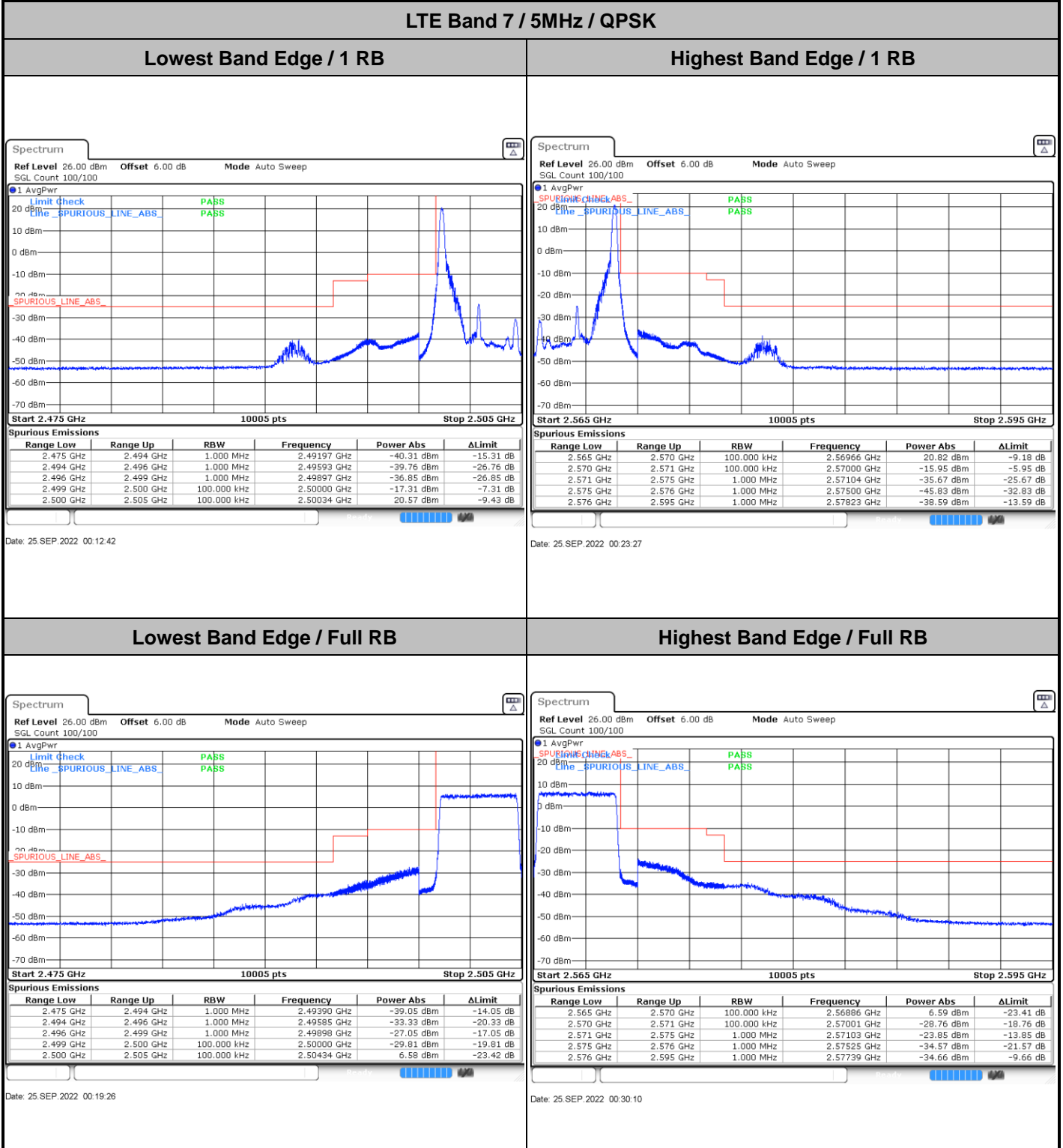
Occupied Bandwidth

Mode	LTE Band 7 : 99%OBW(MHz)	
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	17.90	18.06





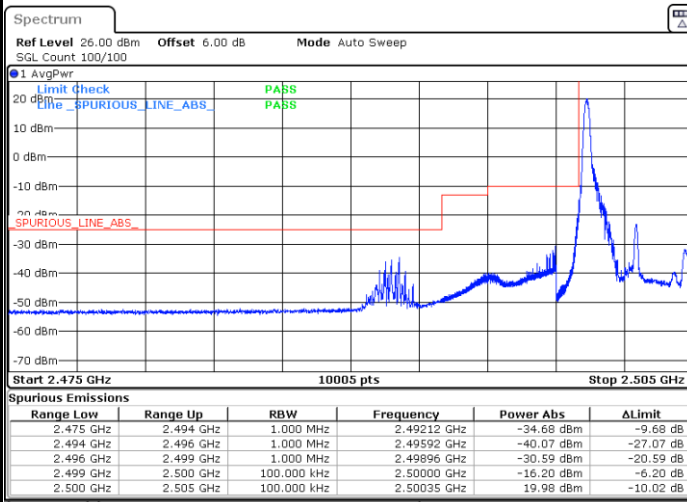
Conducted Band Edge





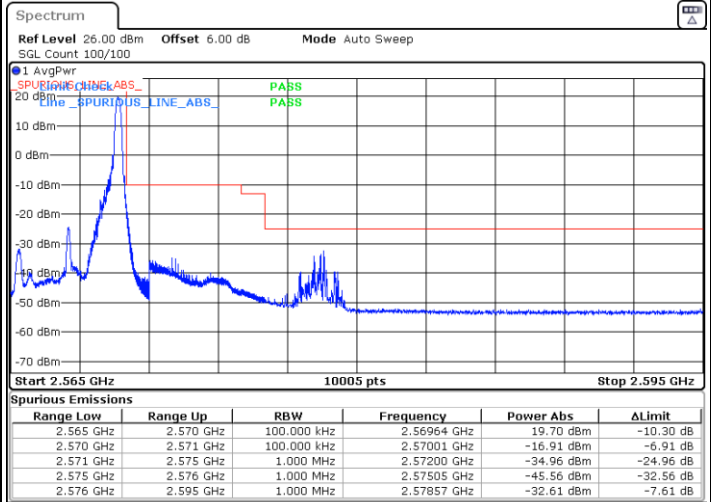
LTE Band 7 / 5MHz / 16QAM

Lowest Band Edge / 1RB



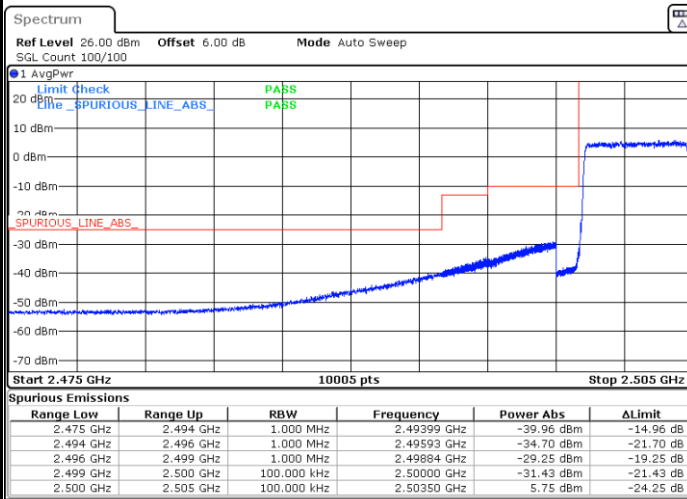
Date: 25 SEP 2022 00:14:02

Highest Band Edge / 1 RB



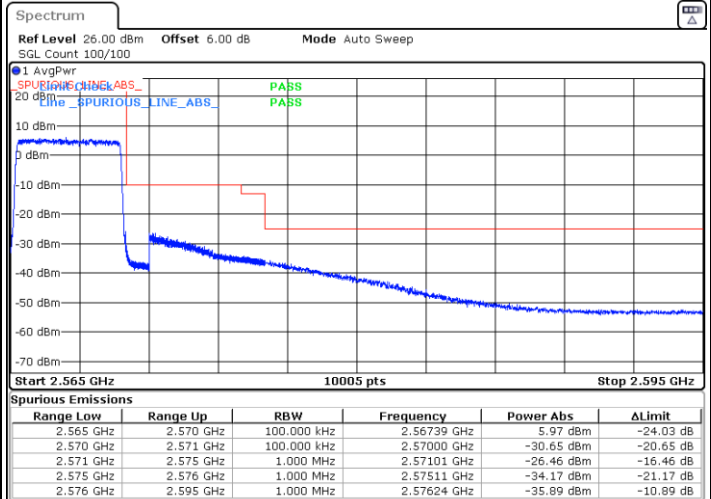
Date: 25 SEP 2022 00:24:48

Lowest Band Edge / Full RB



Date: 25 SEP 2022 00:18:05

Highest Band Edge / Full RB

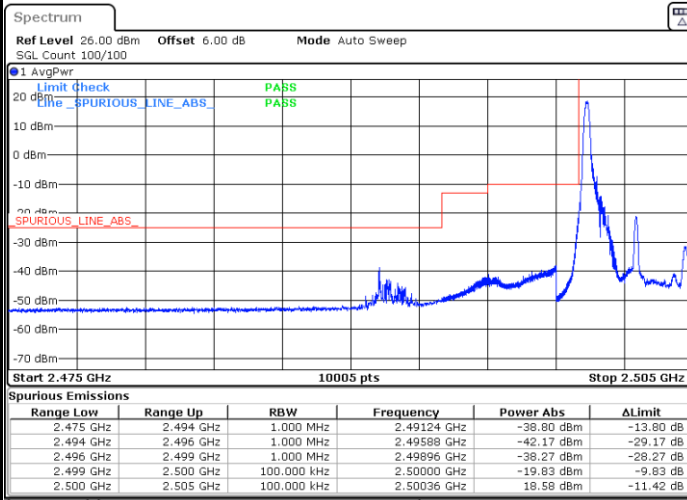


Date: 25 SEP 2022 00:28:49



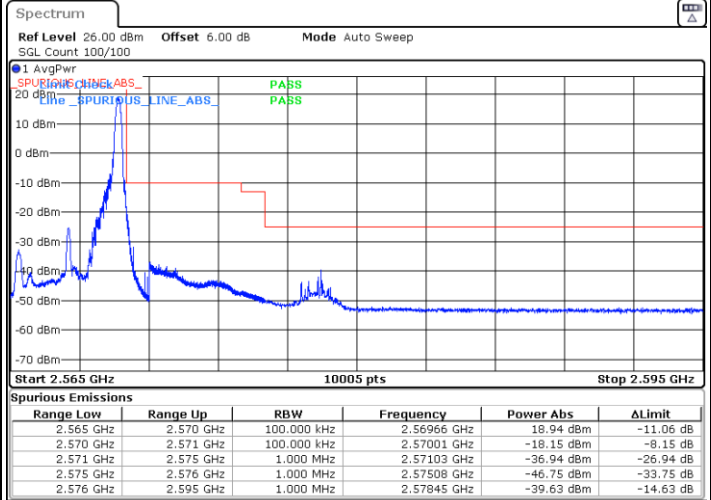
LTE Band 7 / 5MHz / 64QAM

Lowest Band Edge / 1RB



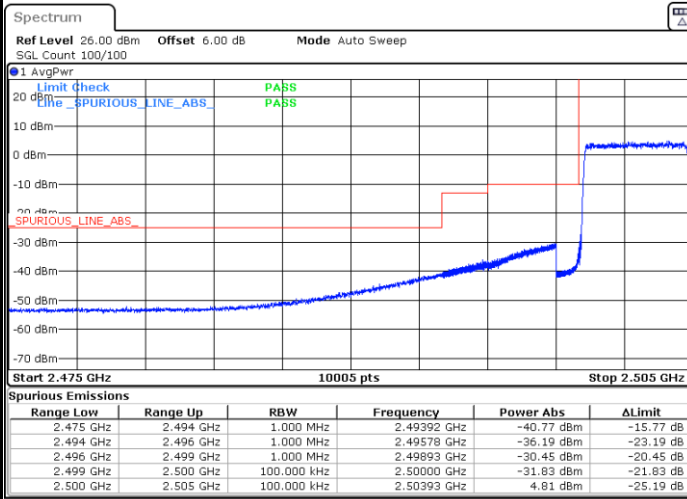
Date: 25 SEP 2022 00:15:23

Highest Band Edge / 1 RB



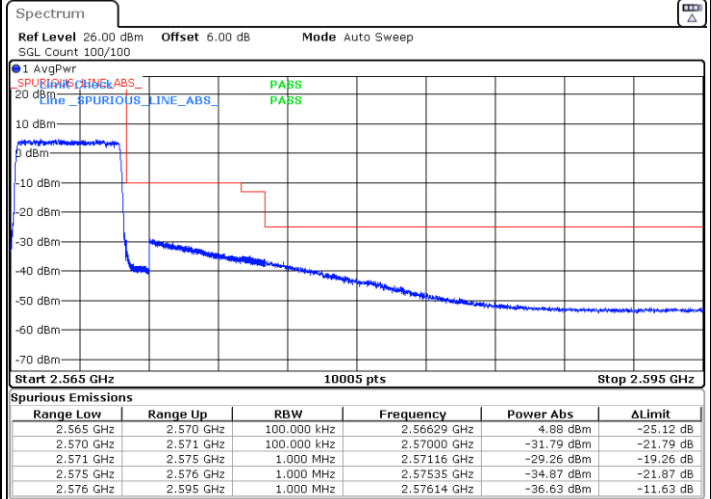
Date: 25 SEP 2022 00:26:08

Lowest Band Edge / Full RB



Date: 25 SEP 2022 00:16:44

Highest Band Edge / Full RB



Date: 25 SEP 2022 00:27:29