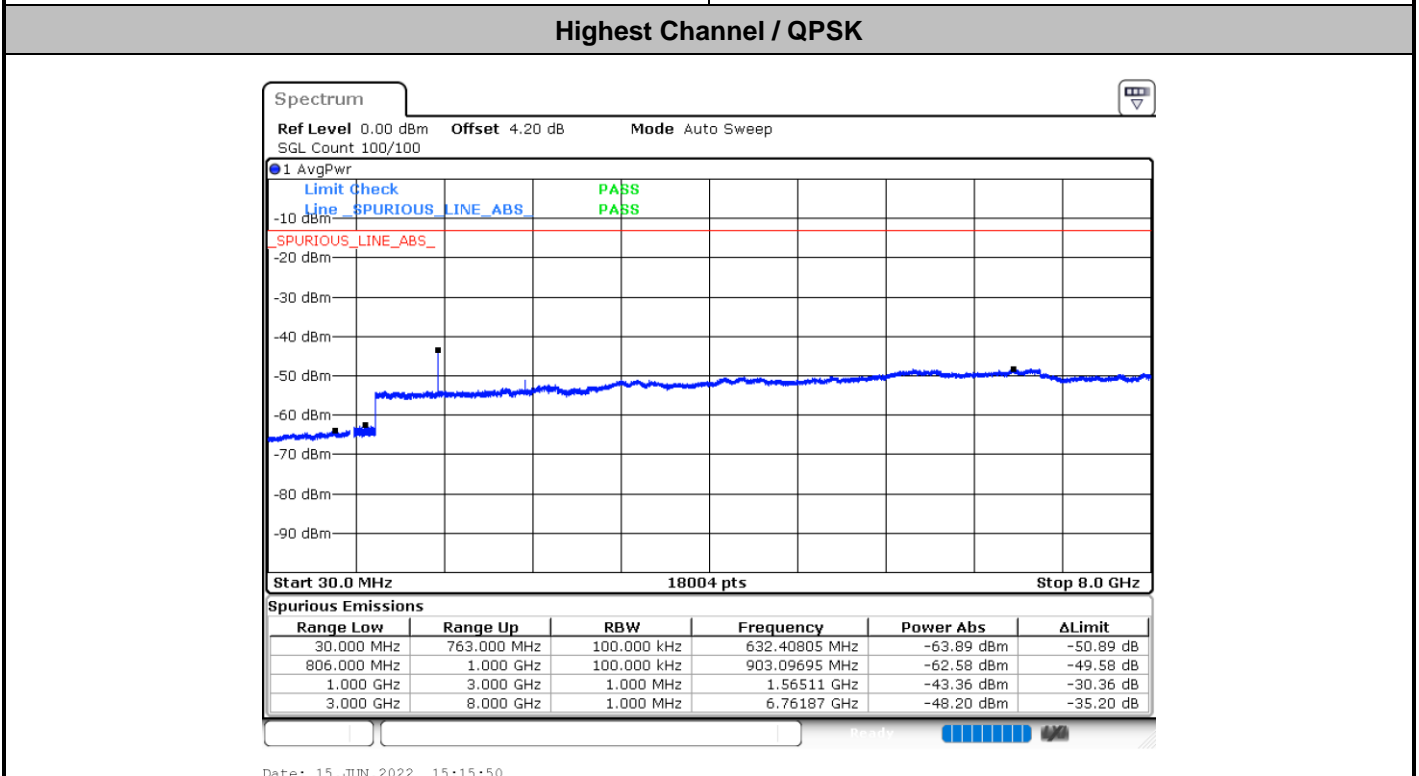
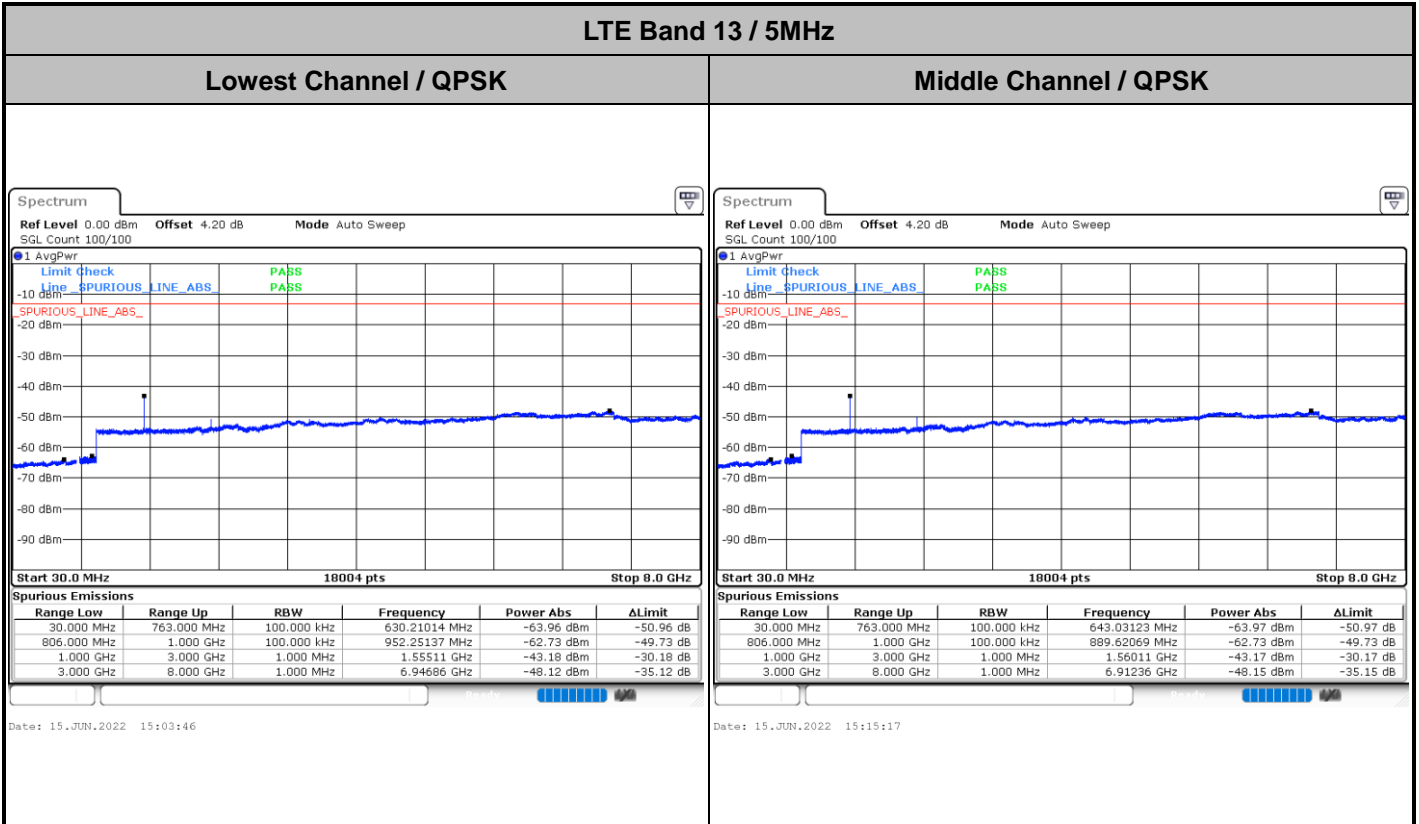




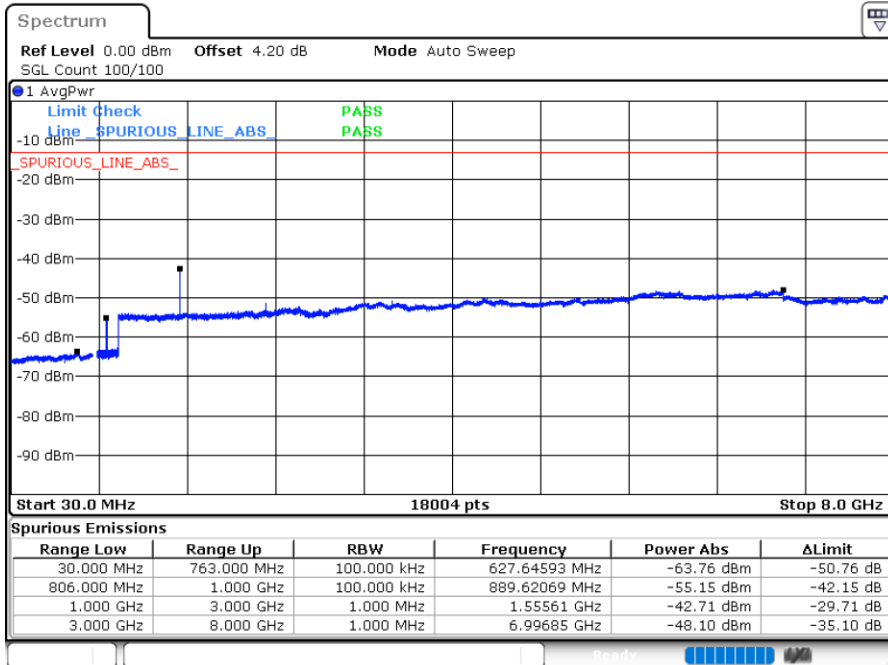
Conducted Spurious Emission





LTE Band 13 / 10MHz

Middle Channel / QPSK



Date: 15 JUN 2022 15:27:24



Frequency Stability

Test Conditions		LTE Band 13 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0245	PASS
40	Normal Voltage	0.0036	
30	Normal Voltage	0.0252	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0008	
0	Normal Voltage	0.0023	
-10	Normal Voltage	0.0211	
-20	Normal Voltage	0.0012	
-30	Normal Voltage	0.0053	
20	Maximum Voltage	0.0264	
20	Normal Voltage	0.0002	
20	Battery End Point	0.0026	

Note:

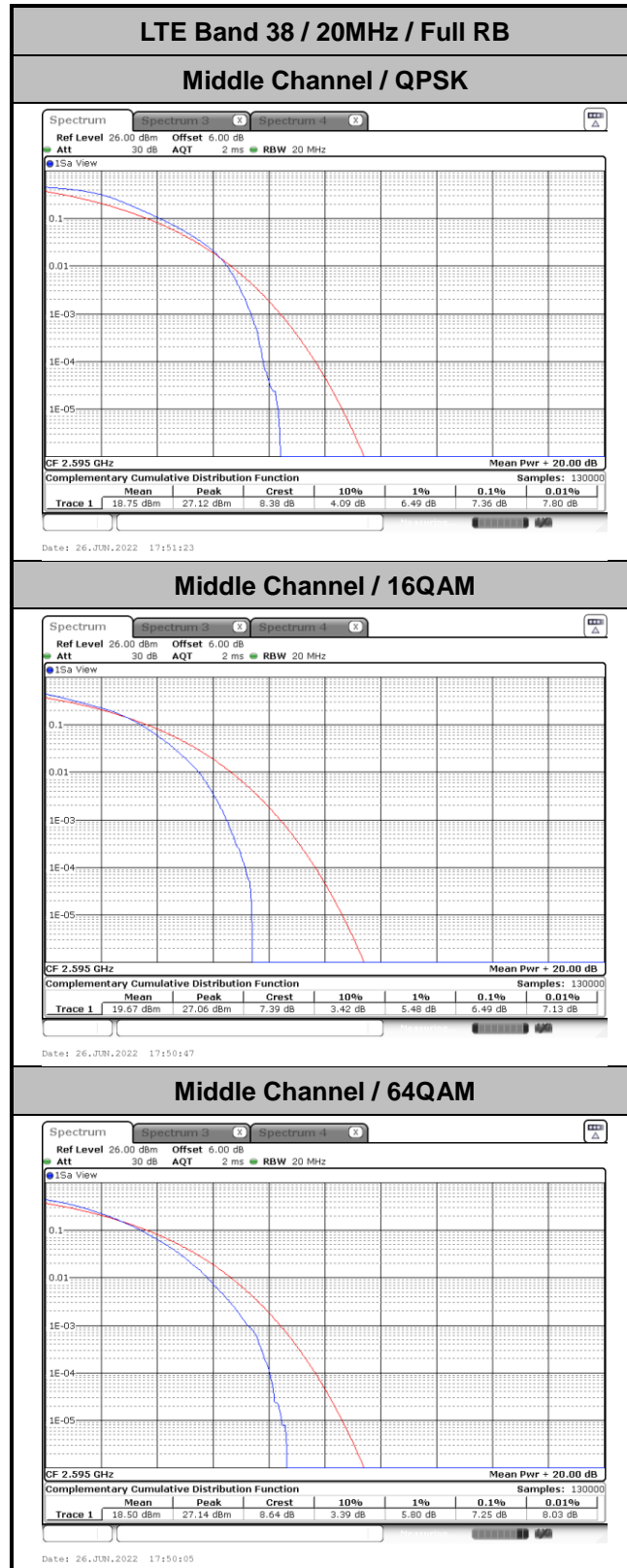
1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.55 V. ; Maximum Voltage =4.45 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 38

Peak-to-Average Ratio

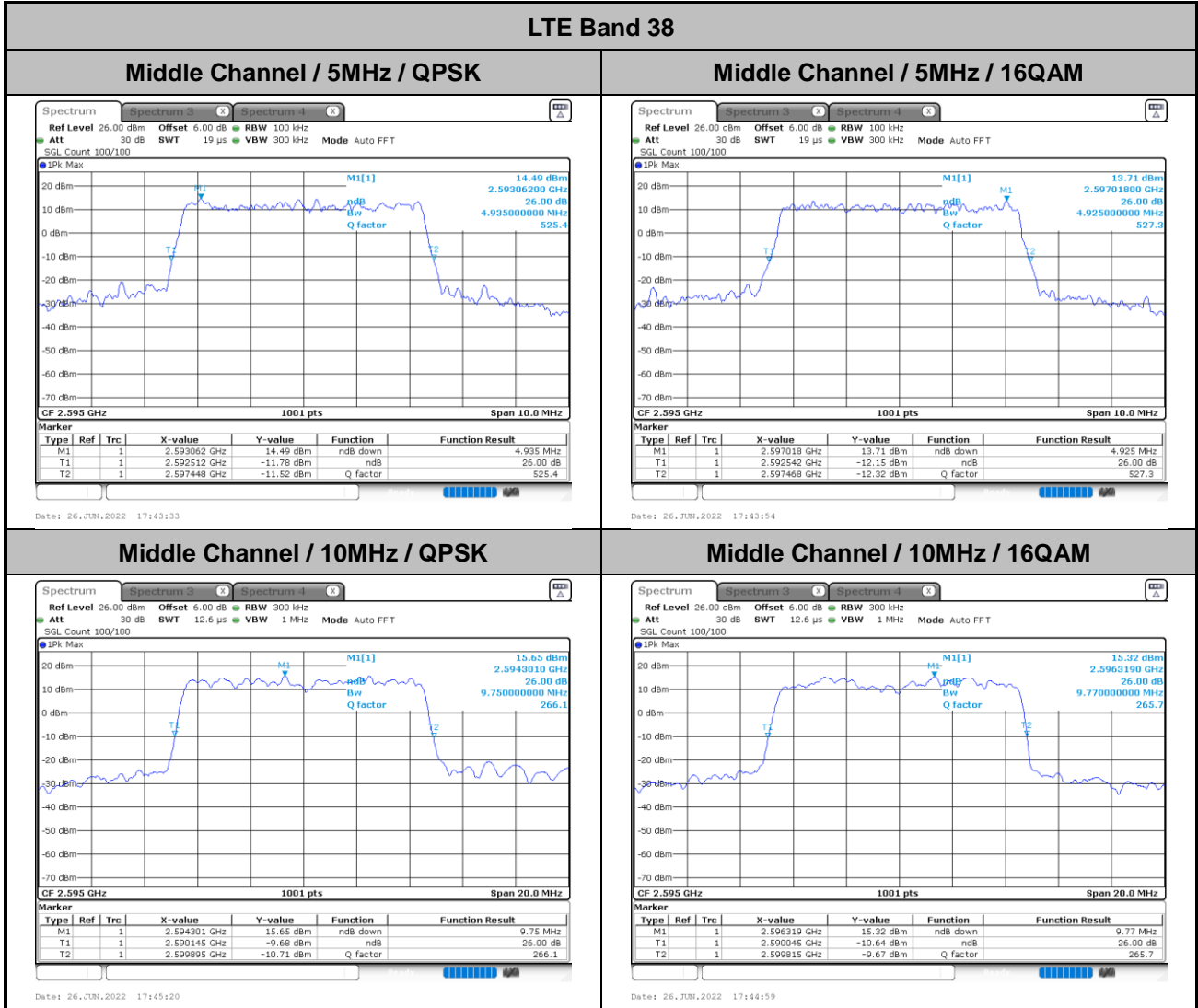
Mode	LTE Band 38 / 20MHz			
RB Size	Full RB	Full RB	Full RB	Limit: 13dB
Mod.	QPSK	16QAM	64QAM	Result
Middle CH	7.36	6.49	7.25	PASS





26dB Bandwidth

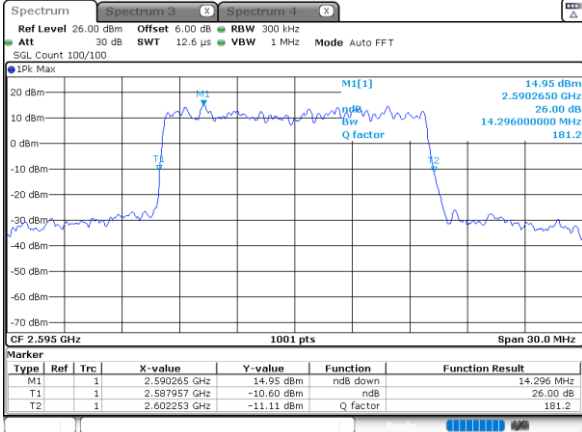
Mode	LTE Band 38 : 26dB BW(MHz)							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	4.94	4.93	9.75	9.77	14.30	14.24	19.02	18.70





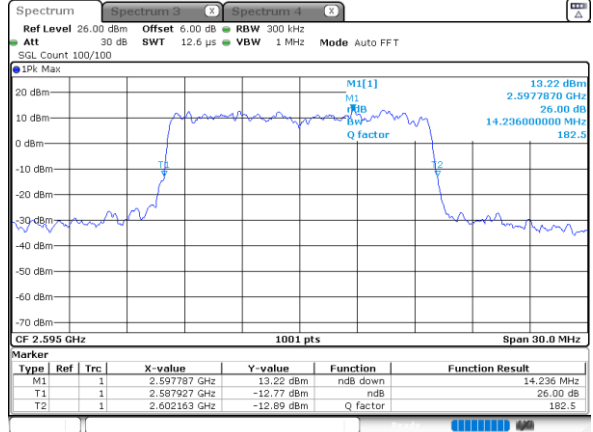
LTE Band 38

Middle Channel / 15MHz / QPSK



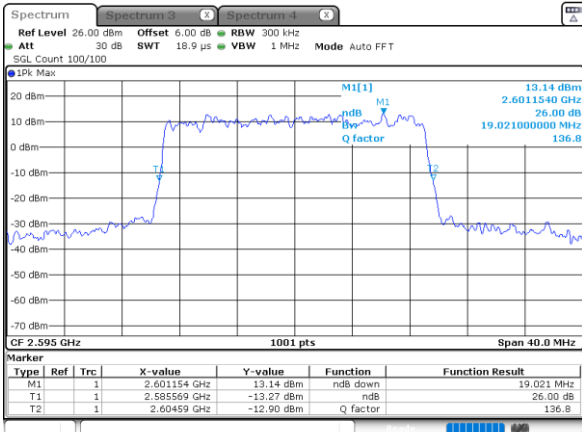
Date: 26 JUN 2022 17:46:24

Middle Channel / 15MHz / 16QAM



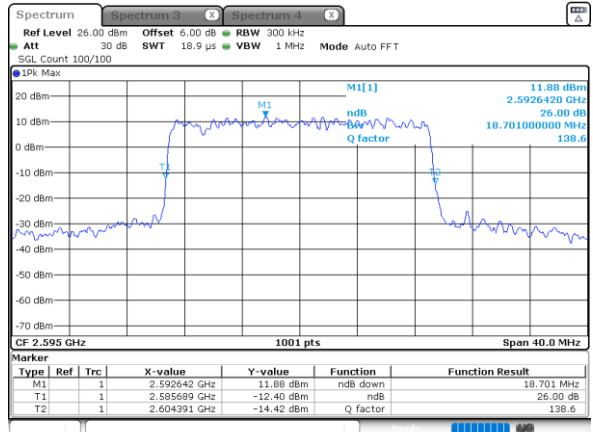
Date: 26 JUN 2022 17:46:45

Middle Channel / 20MHz / QPSK



Date: 26 JUN 2022 17:48:10

Middle Channel / 20MHz / 16QAM

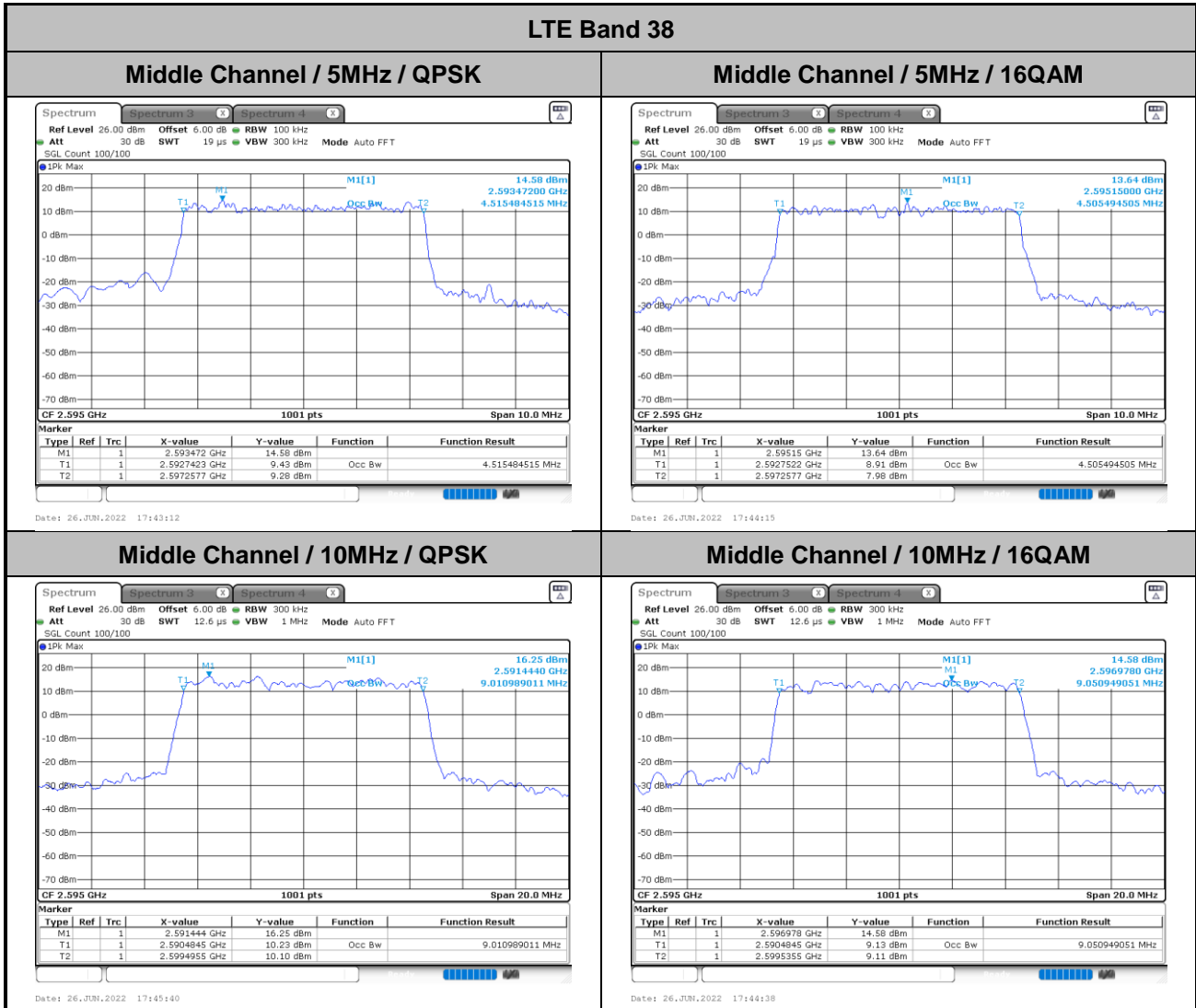


Date: 26 JUN 2022 17:47:49



Occupied Bandwidth

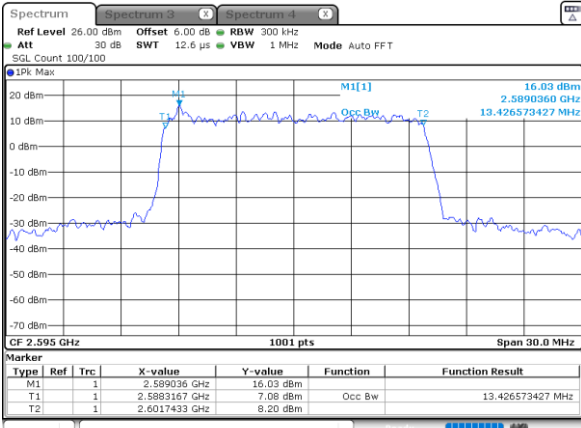
Mode	LTE Band 38 : 99%OBW(MHz)							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	4.52	4.51	9.01	9.05	13.43	13.52	17.82	17.94





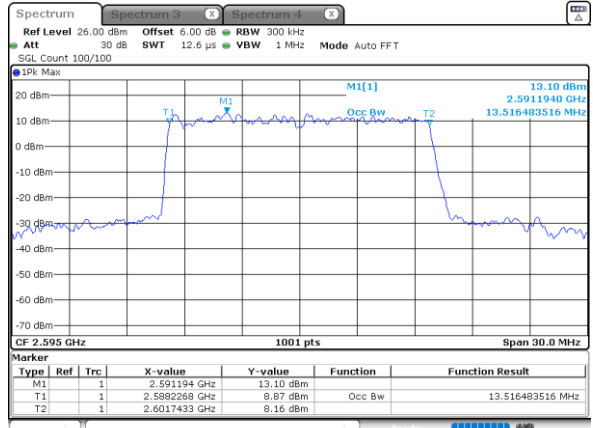
LTE Band 38

Middle Channel / 15MHz / QPSK



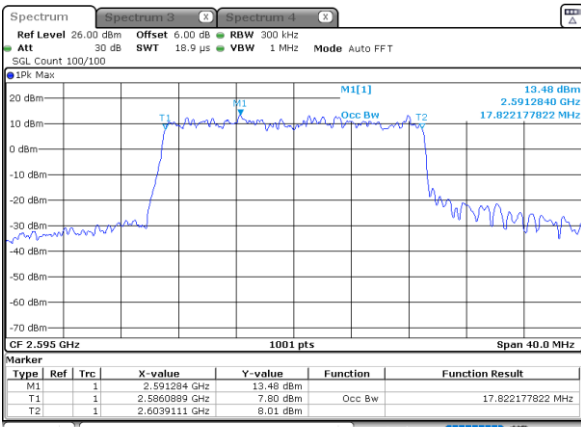
Date: 26 JUN 2022 17:46:03

Middle Channel / 15MHz / 16QAM



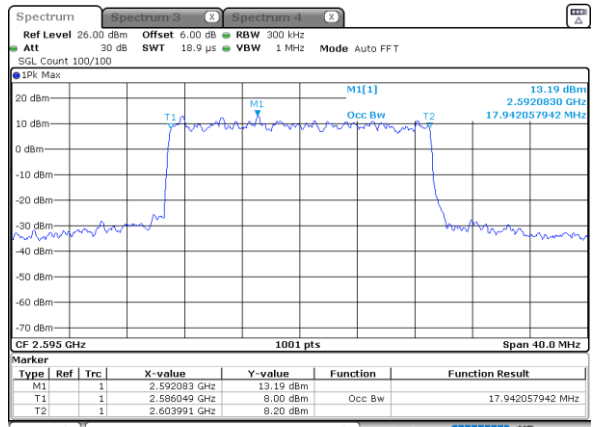
Date: 26 JUN 2022 17:47:06

Middle Channel / 20MHz / QPSK



Date: 26 JUN 2022 17:48:33

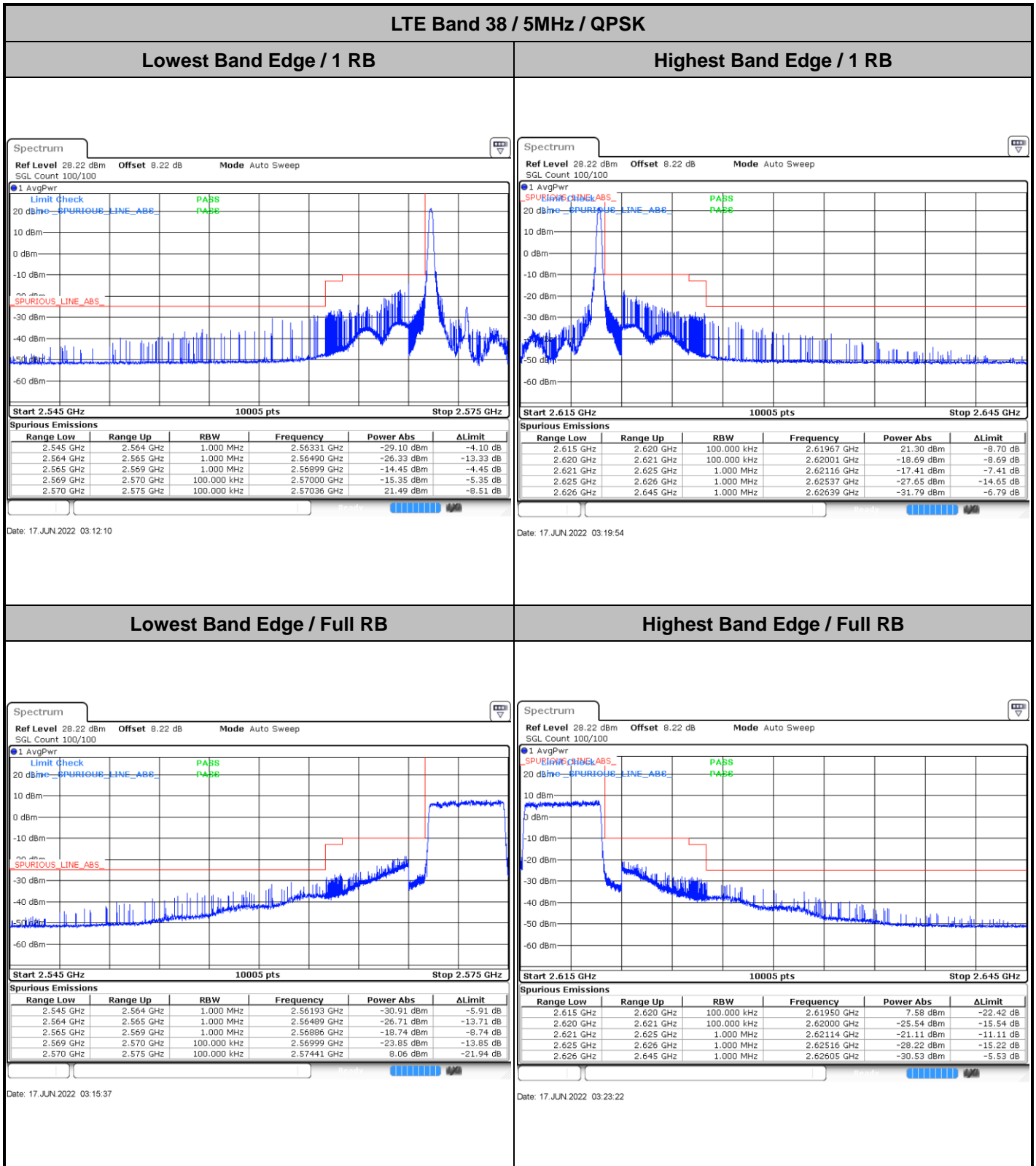
Middle Channel / 20MHz / 16QAM



Date: 26 JUN 2022 17:47:28



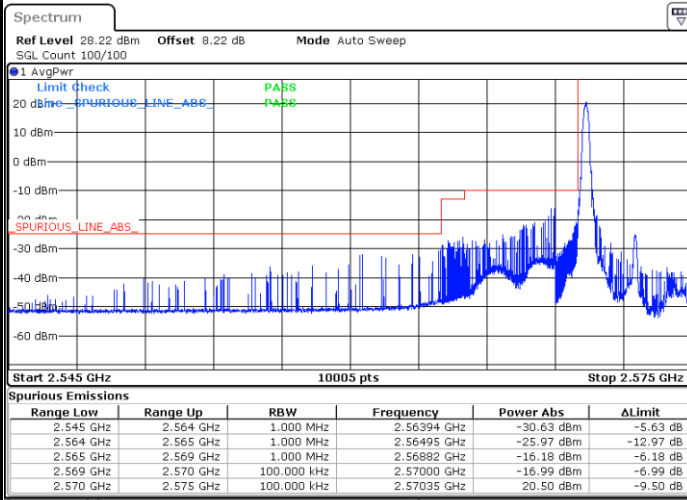
Conducted Band Edge





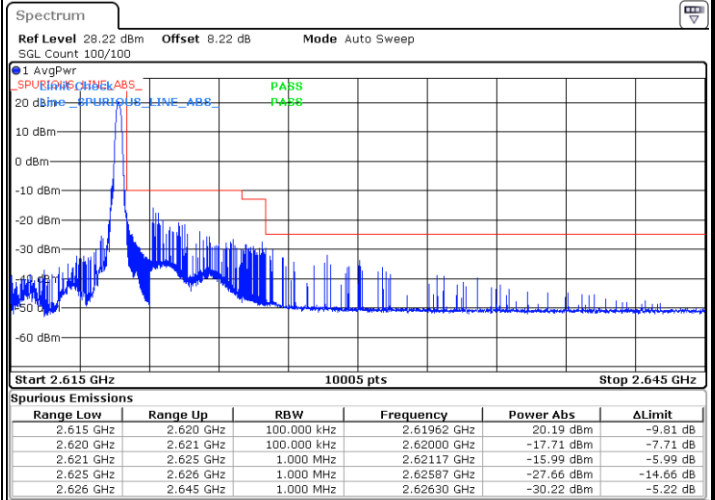
LTE Band 38 / 5MHz / 16QAM

Lowest Band Edge / 1RB



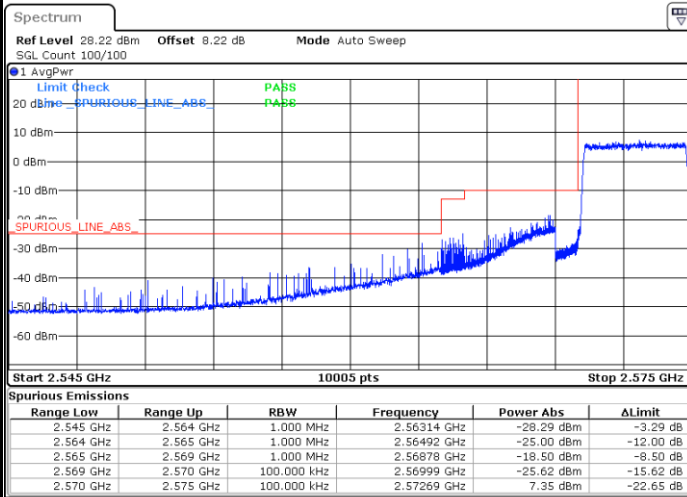
Date: 17 JUN 2022 03:12:51

Highest Band Edge / 1 RB



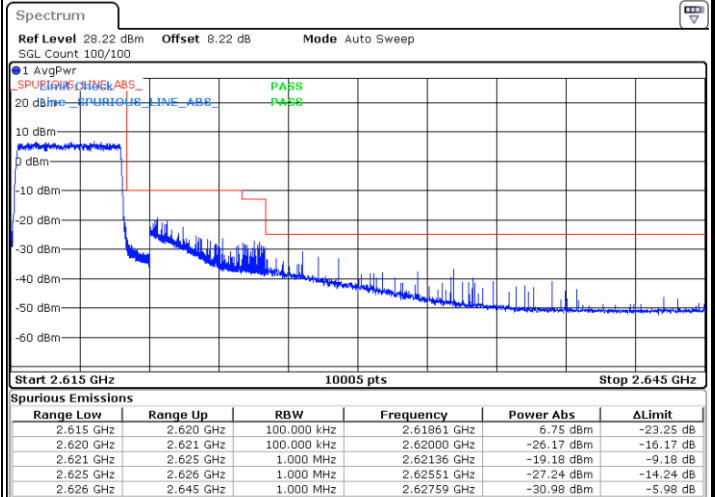
Date: 17 JUN 2022 03:20:36

Lowest Band Edge / Full RB



Date: 17 JUN 2022 03:14:56

Highest Band Edge / Full RB

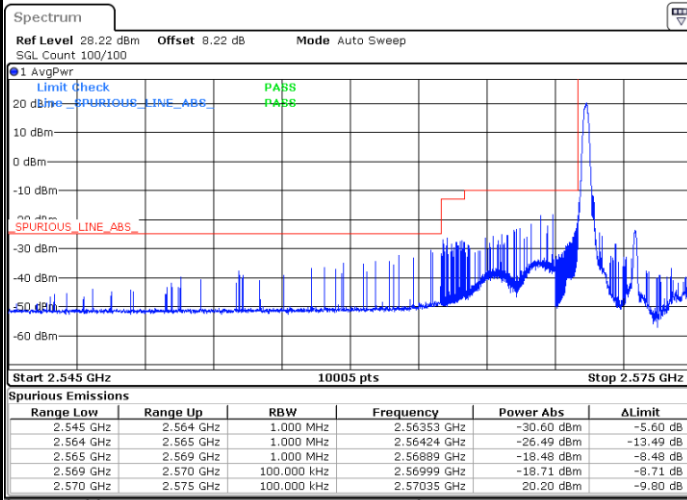


Date: 17 JUN 2022 03:22:40



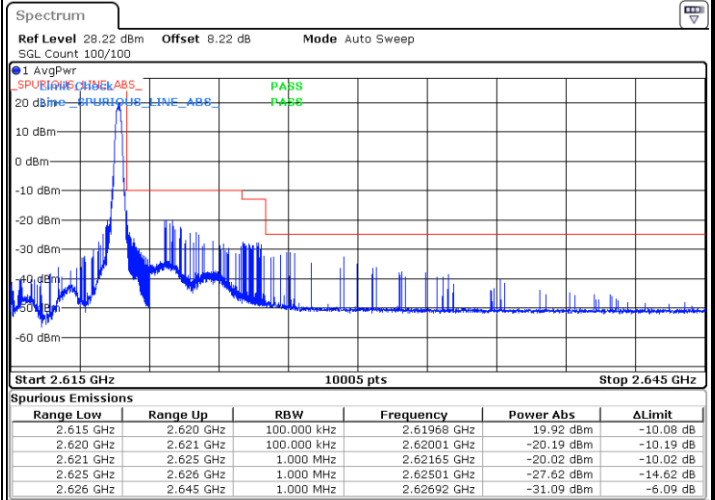
LTE Band 38 / 5MHz / 64QAM

Lowest Band Edge / 1RB



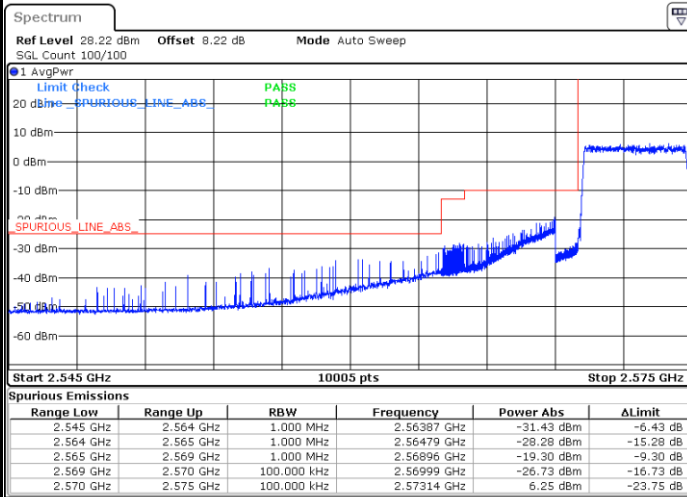
Date: 17 JUN 2022 03:13:33

Highest Band Edge / 1 RB



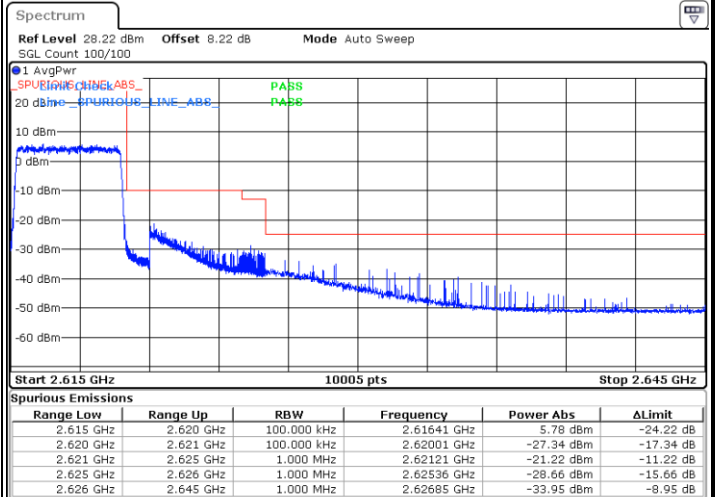
Date: 17 JUN 2022 03:21:17

Lowest Band Edge / Full RB



Date: 17 JUN 2022 03:14:14

Highest Band Edge / Full RB

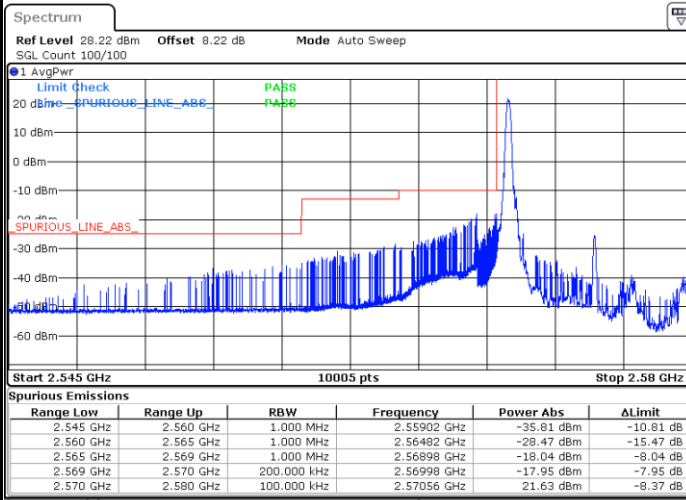


Date: 17 JUN 2022 03:21:59



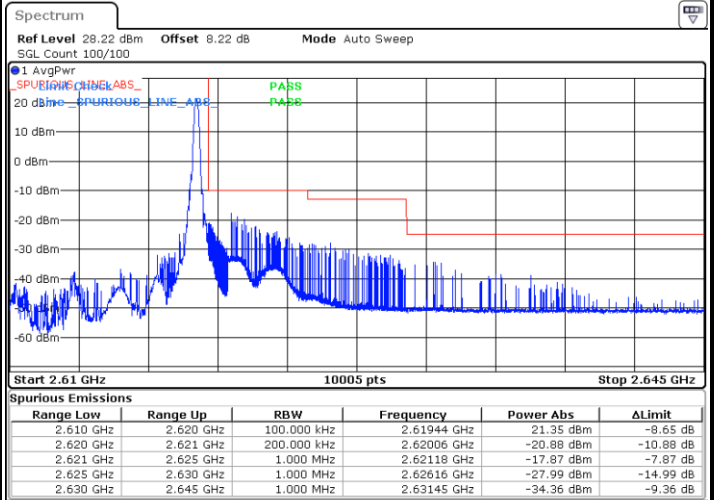
LTE Band 38 / 10MHz / QPSK

Lowest Band Edge / 1 RB



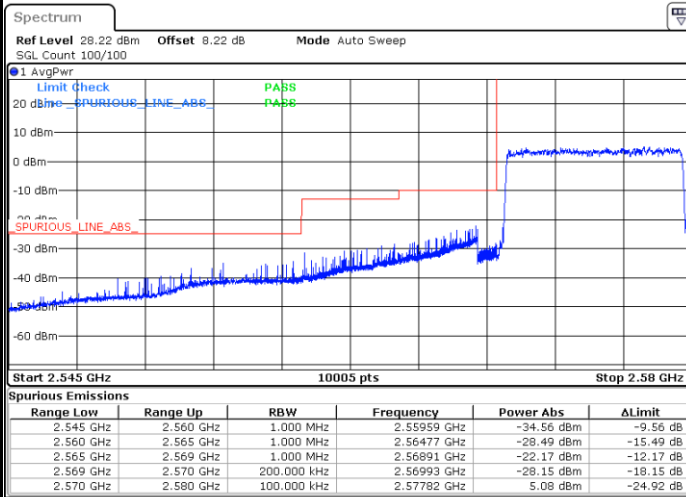
Date: 17 JUN 2022 02:28:06

Highest Band Edge / 1 RB



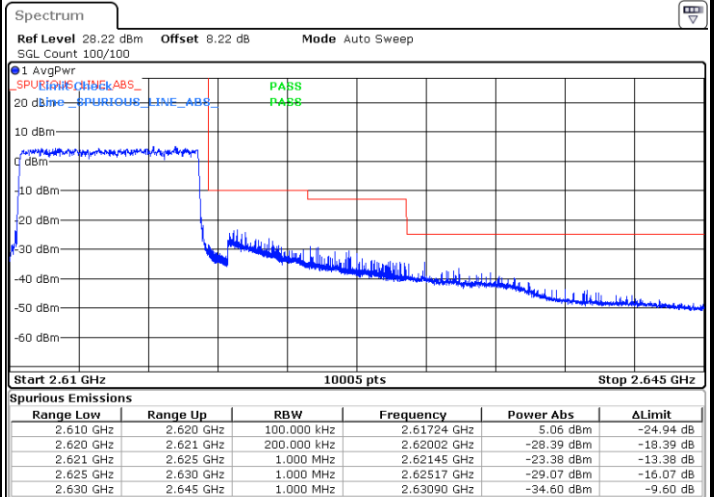
Date: 17 JUN 2022 02:42:46

Lowest Band Edge / Full RB



Date: 17 JUN 2022 02:20:29

Highest Band Edge / Full RB

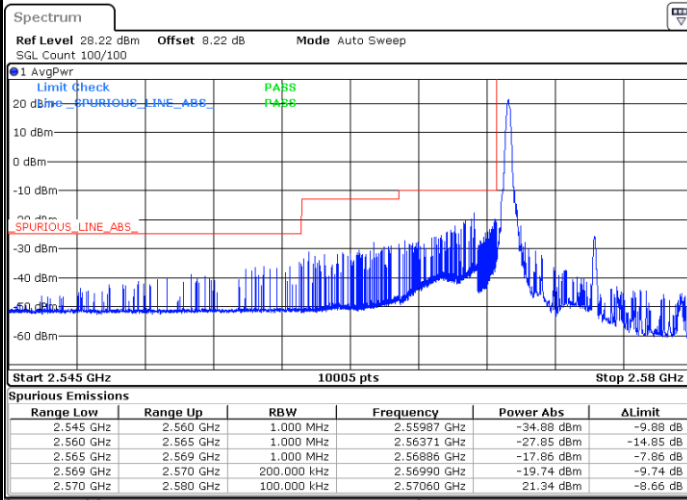


Date: 17 JUN 2022 02:35:08



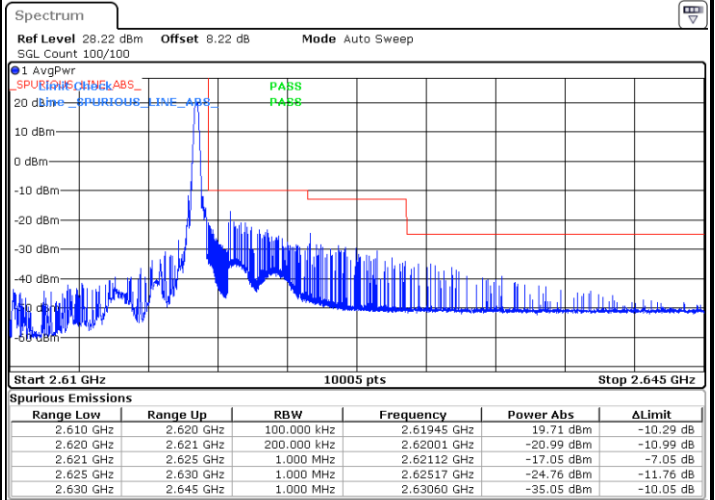
LTE Band 38 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



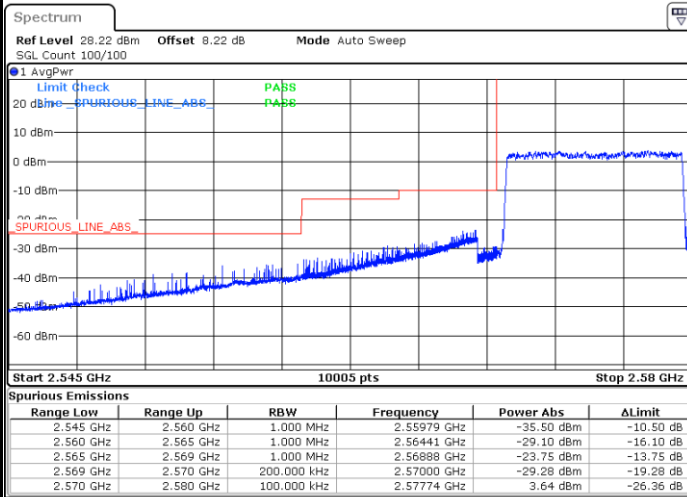
Date: 17 JUN 2022 02:26:35

Highest Band Edge / 1 RB



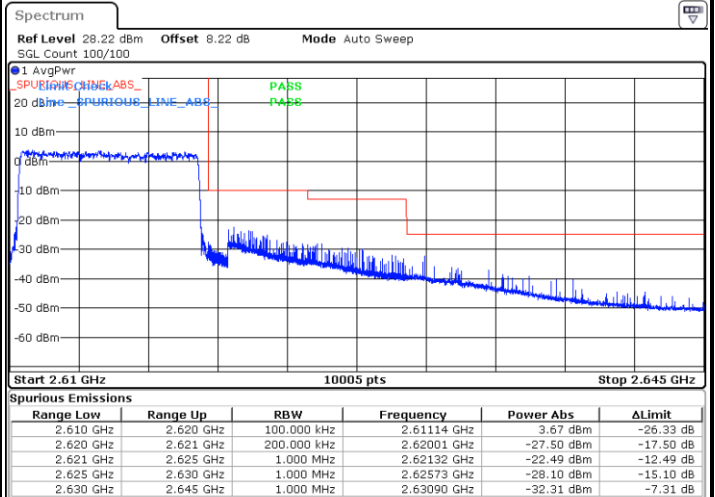
Date: 17 JUN 2022 02:41:14

Lowest Band Edge / Full RB



Date: 17 JUN 2022 02:22:01

Highest Band Edge / Full RB

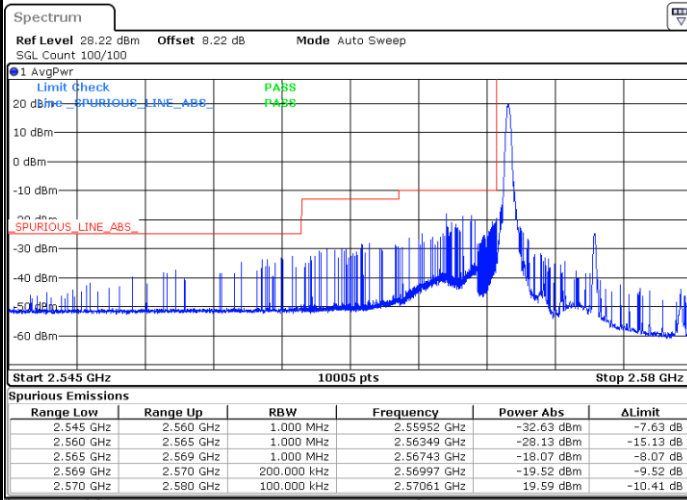


Date: 17 JUN 2022 02:36:40



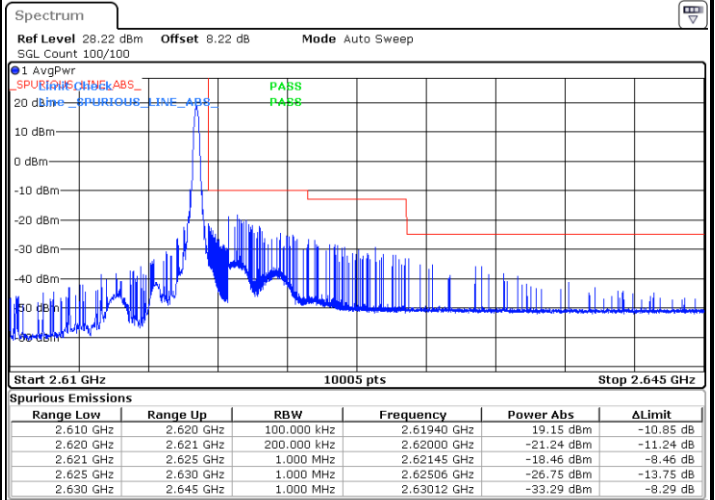
LTE Band 38 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



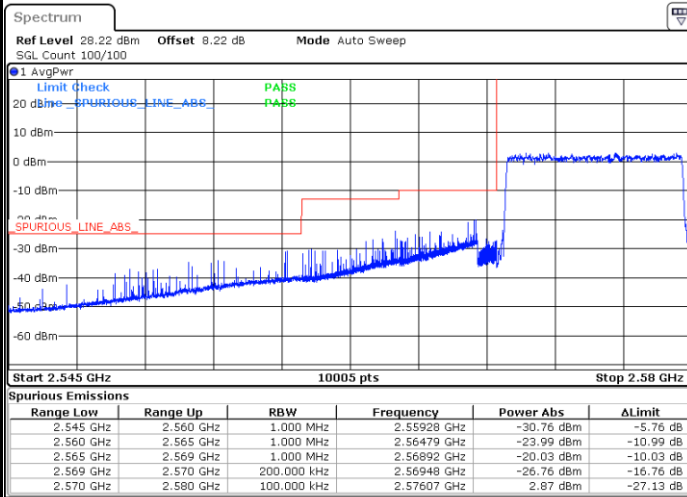
Date: 17 JUN 2022 02:25:03

Highest Band Edge / 1 RB



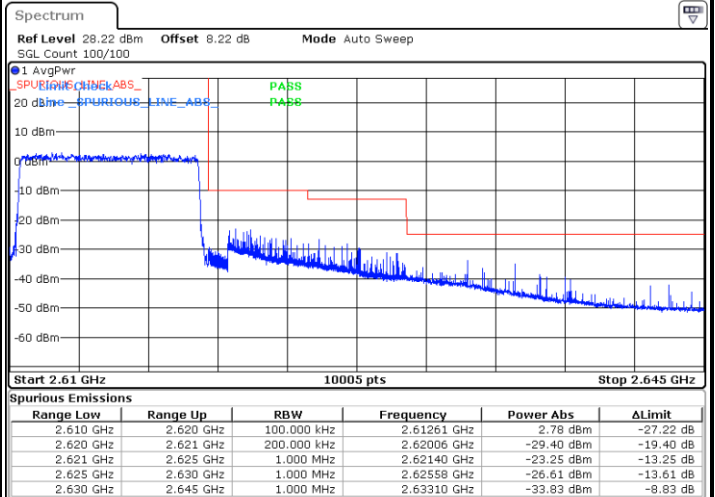
Date: 17 JUN 2022 02:39:43

Lowest Band Edge / Full RB



Date: 17 JUN 2022 02:23:32

Highest Band Edge / Full RB

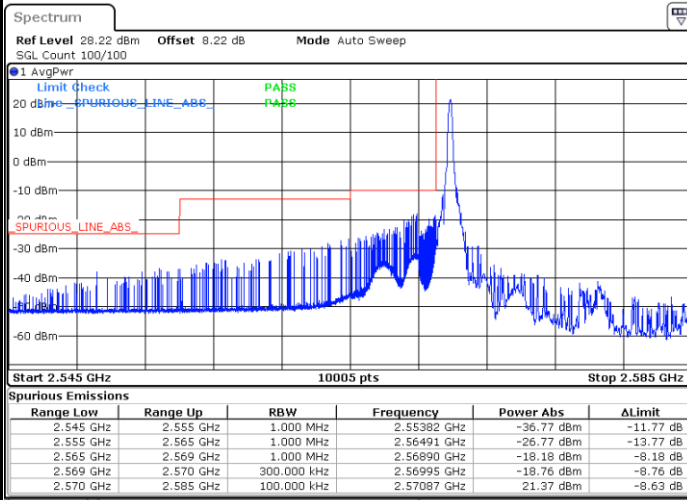


Date: 17 JUN 2022 02:38:11



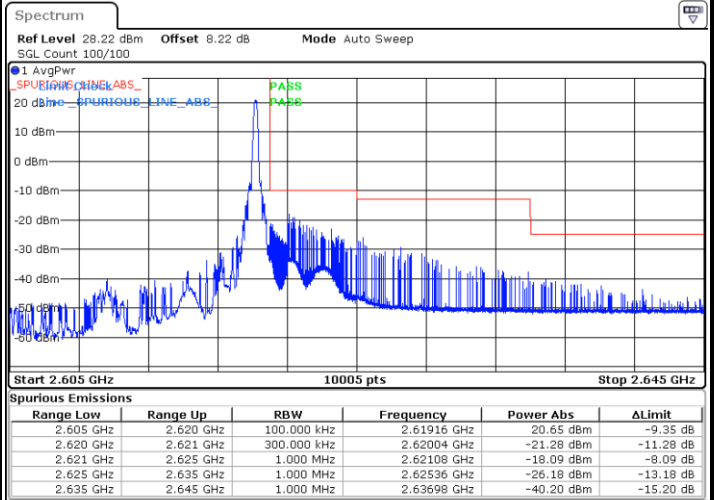
LTE Band 38 / 15MHz / QPSK

Lowest Band Edge / 1 RB



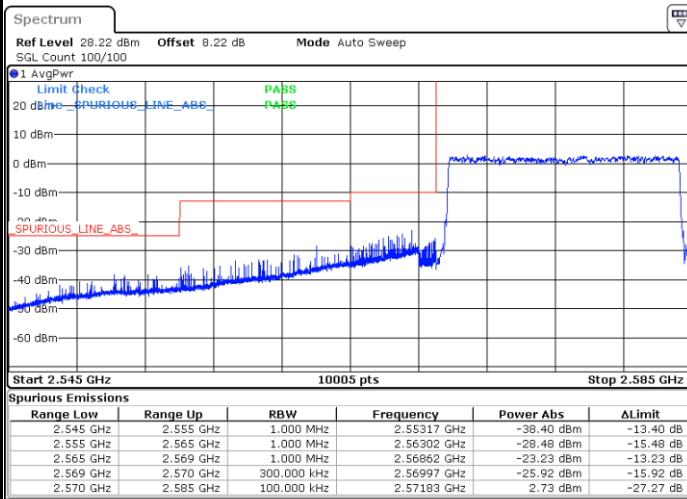
Date: 17 JUN 2022 02:44:19

Highest Band Edge / 1 RB



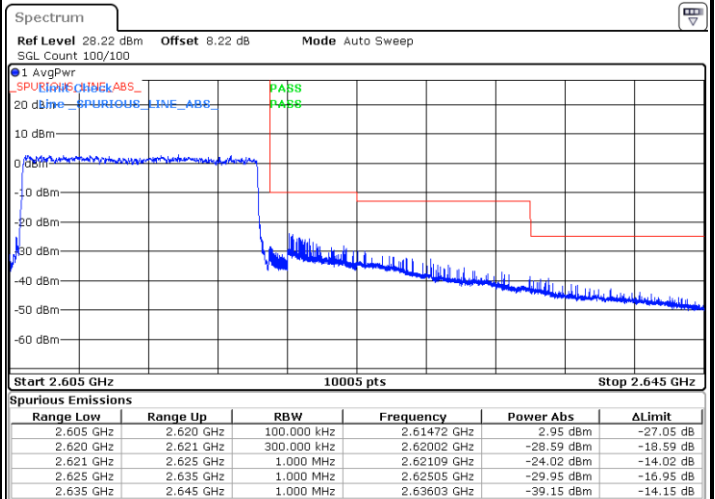
Date: 17 JUN 2022 02:58:05

Lowest Band Edge / Full RB



Date: 17 JUN 2022 02:48:56

Highest Band Edge / Full RB

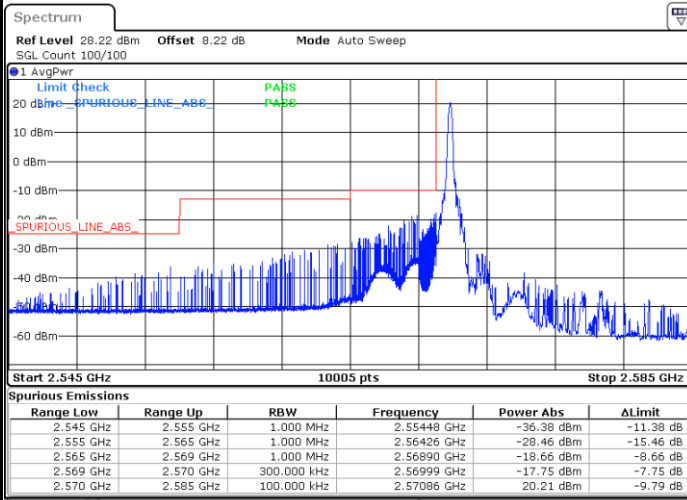


Date: 17 JUN 2022 02:54:38



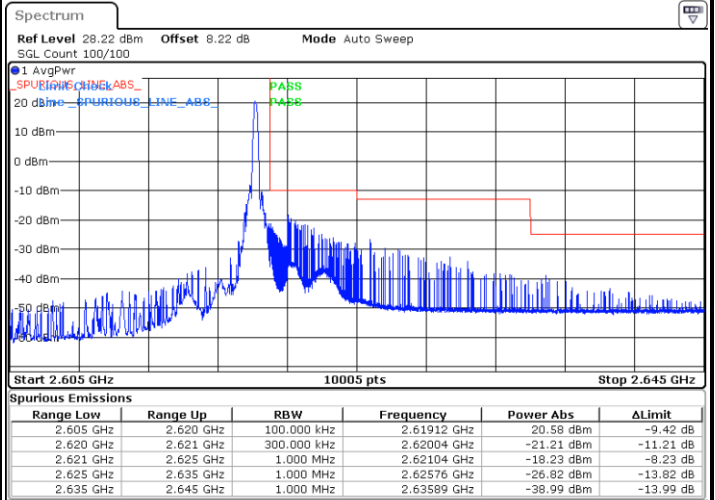
LTE Band 38 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



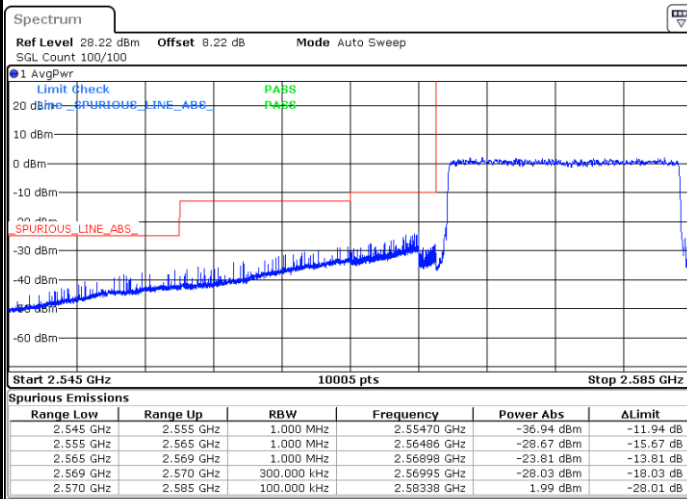
Date: 17 JUN 2022 02:45:50

Highest Band Edge / 1 RB



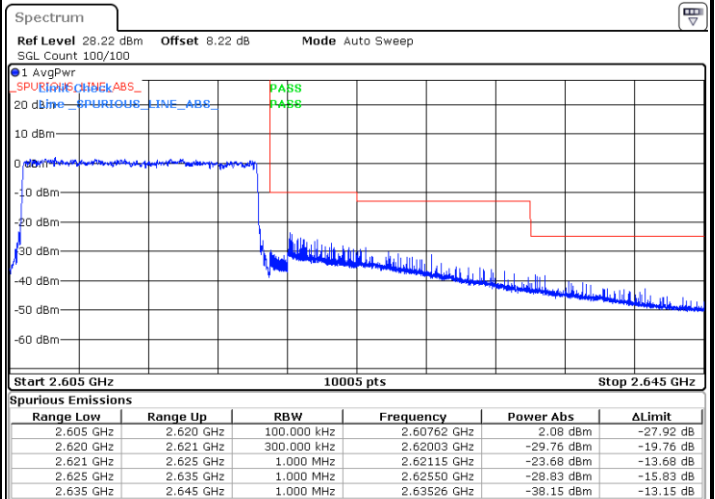
Date: 17 JUN 2022 02:57:24

Lowest Band Edge / Full RB



Date: 17 JUN 2022 02:48:15

Highest Band Edge / Full RB

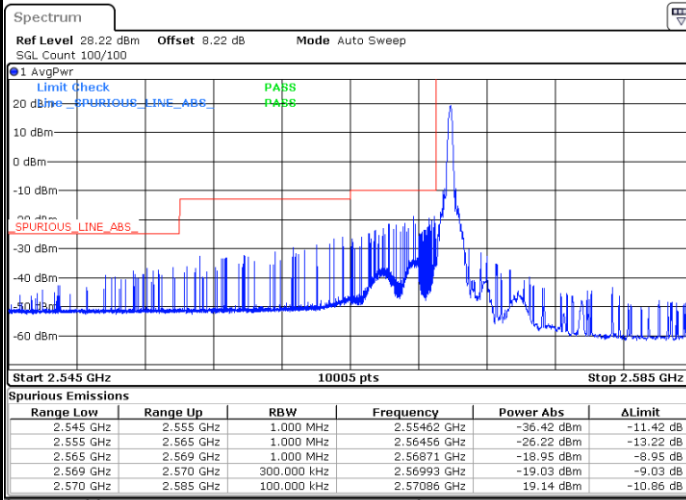


Date: 17 JUN 2022 02:55:20



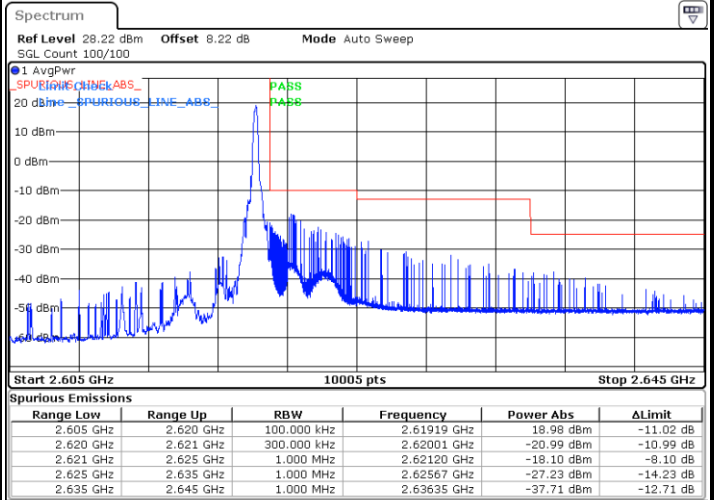
LTE Band 38 / 15MHz / 64QAM

Lowest Band Edge / 1 RB



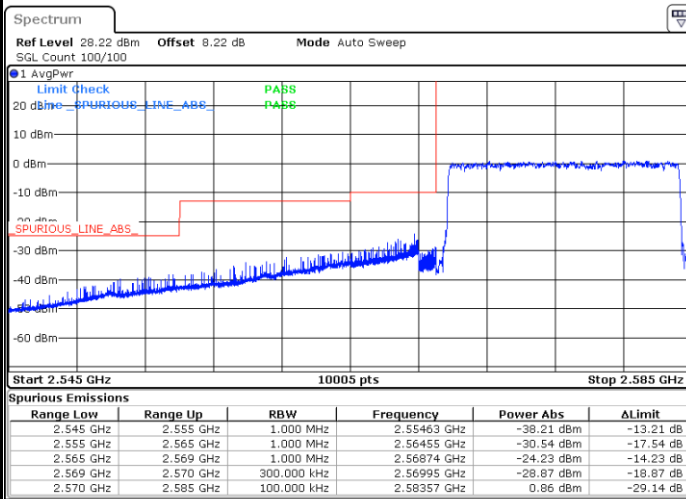
Date: 17 JUN 2022 02:46:42

Highest Band Edge / 1 RB



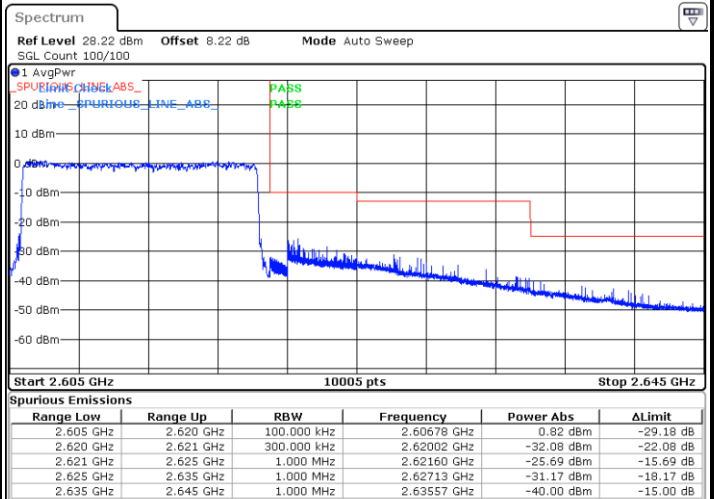
Date: 17 JUN 2022 02:56:42

Lowest Band Edge / Full RB



Date: 17 JUN 2022 02:47:33

Highest Band Edge / Full RB

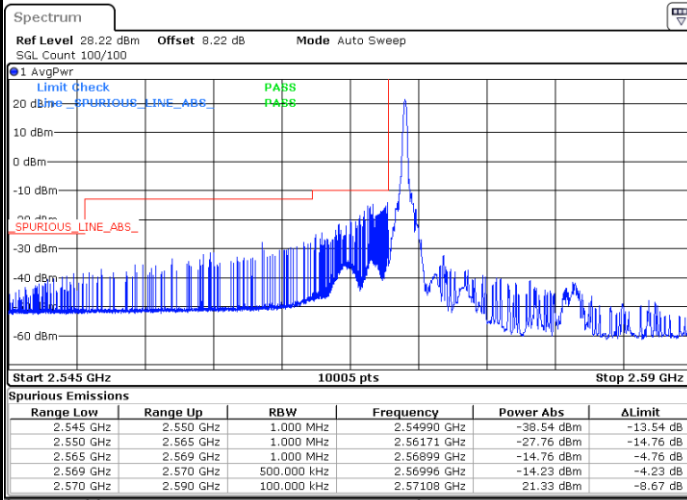


Date: 17 JUN 2022 02:56:01



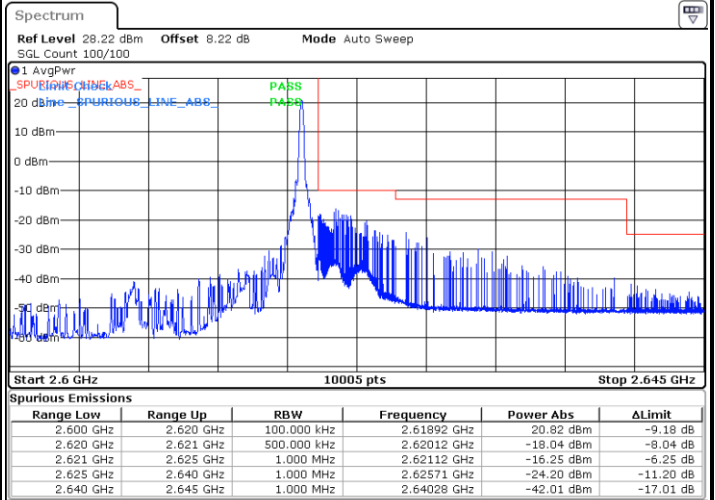
LTE Band 38 / 20MHz / QPSK

Lowest Band Edge / 1 RB



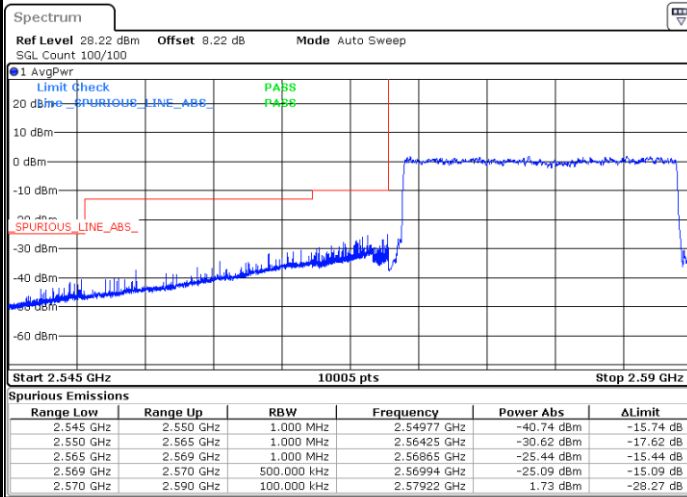
Date: 17 JUN 2022 02:58:48

Highest Band Edge / 1 RB



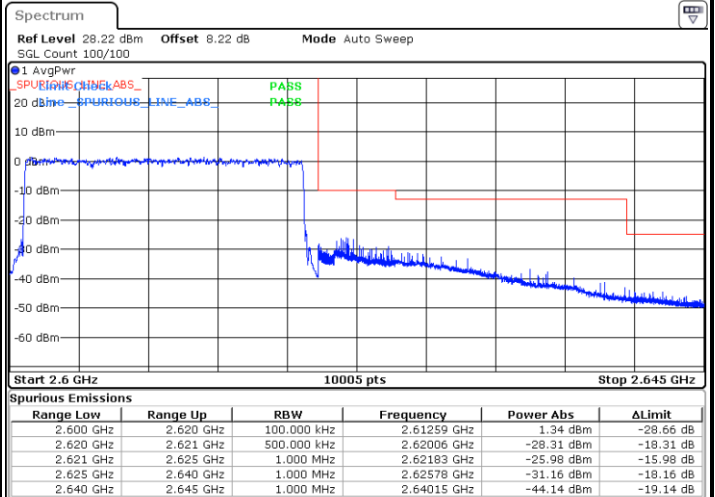
Date: 17 JUN 2022 03:10:46

Lowest Band Edge / Full RB



Date: 17 JUN 2022 03:02:16

Highest Band Edge / Full RB

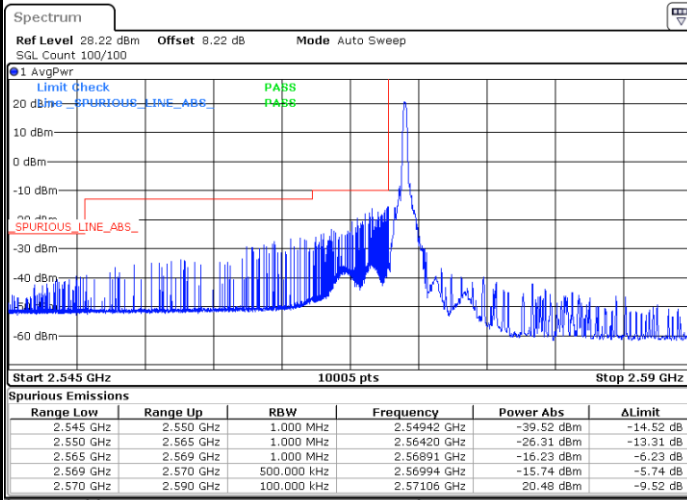


Date: 17 JUN 2022 03:08:00



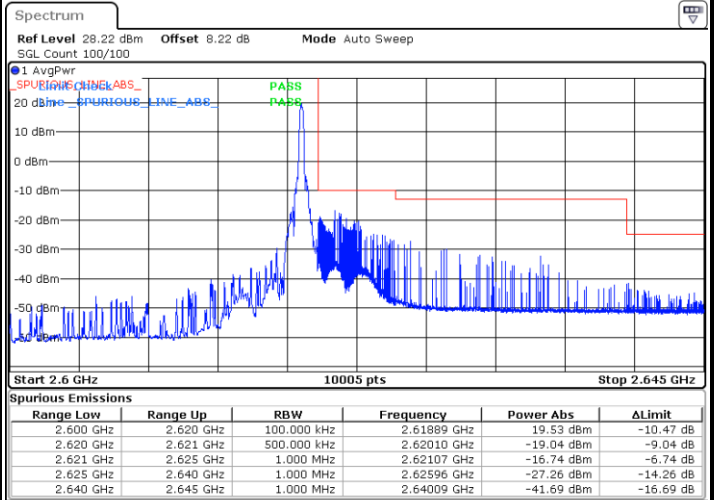
LTE Band 38 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



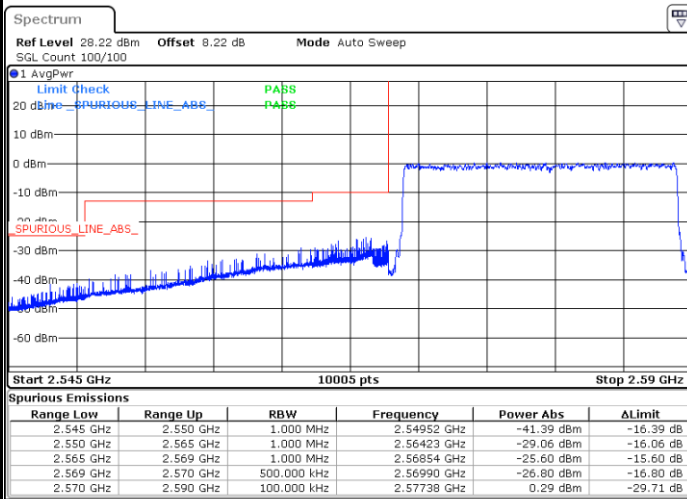
Date: 17 JUN 2022 02:59:30

Highest Band Edge / 1 RB



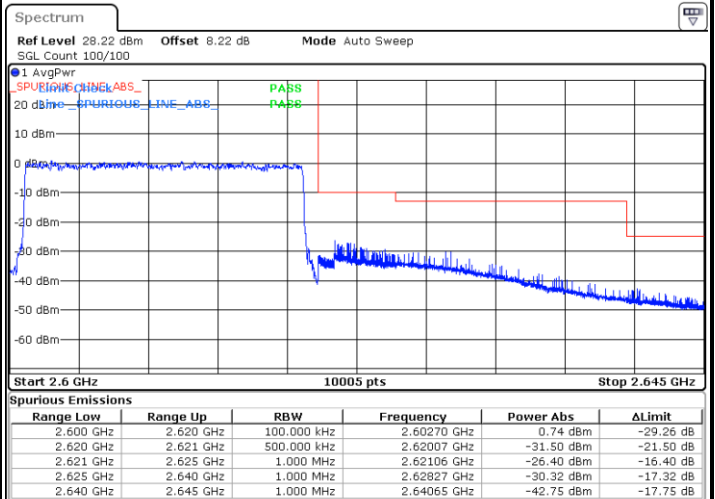
Date: 17 JUN 2022 03:11:27

Lowest Band Edge / Full RB



Date: 17 JUN 2022 03:01:35

Highest Band Edge / Full RB

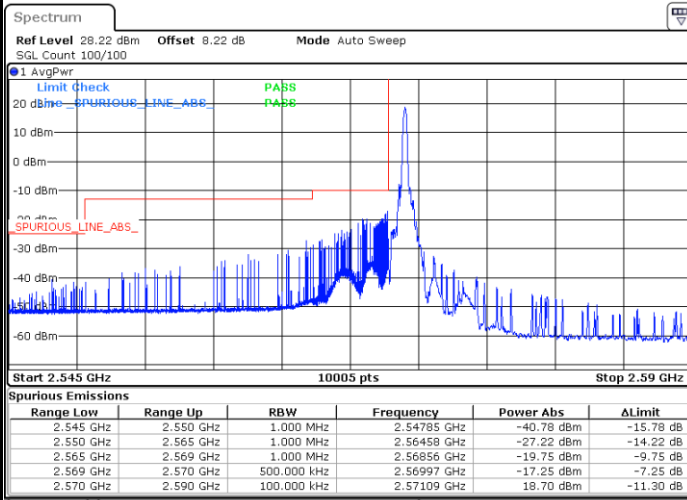


Date: 17 JUN 2022 03:08:41



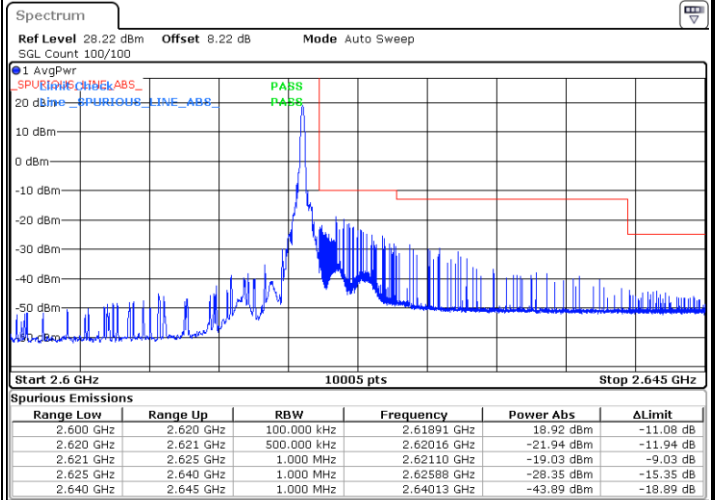
LTE Band 38 / 20MHz / 64QAM

Lowest Band Edge / 1 RB



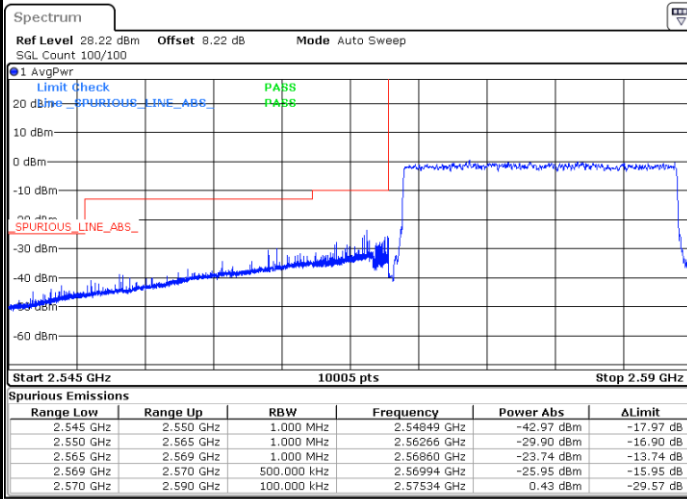
Date: 17 JUN 2022 03:00:11

Highest Band Edge / 1 RB



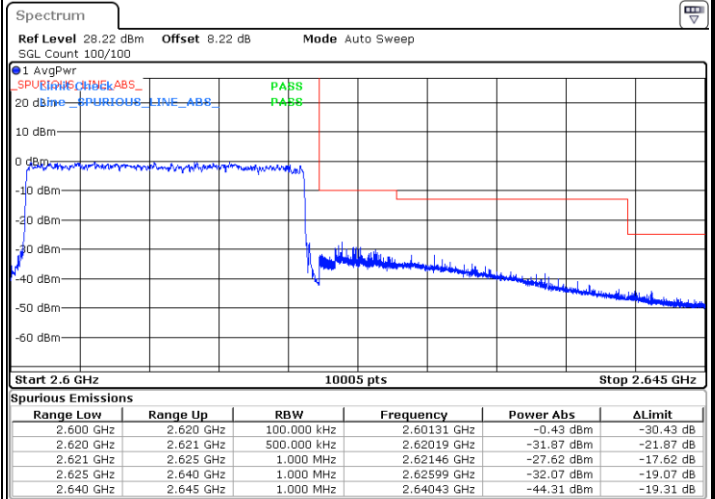
Date: 17 JUN 2022 03:10:04

Lowest Band Edge / Full RB



Date: 17 JUN 2022 03:00:53

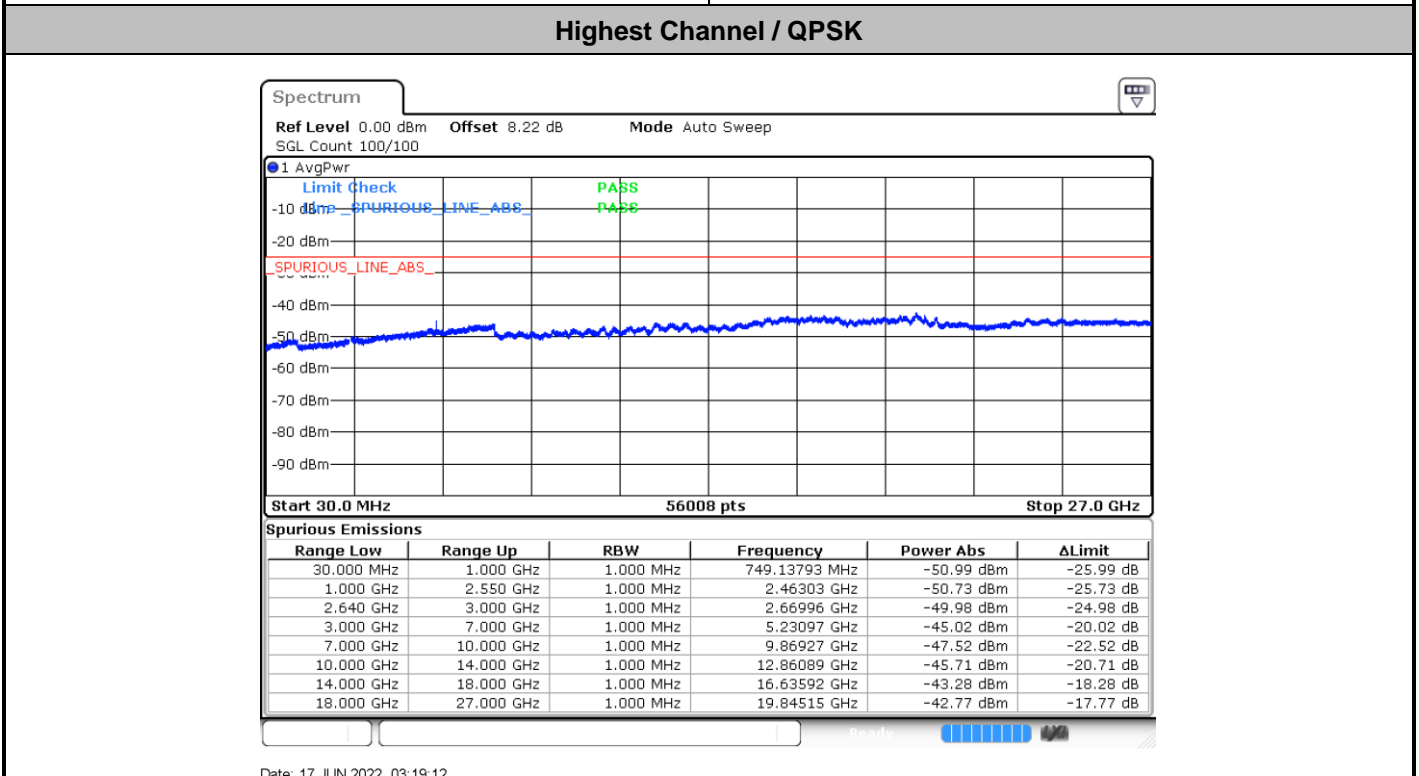
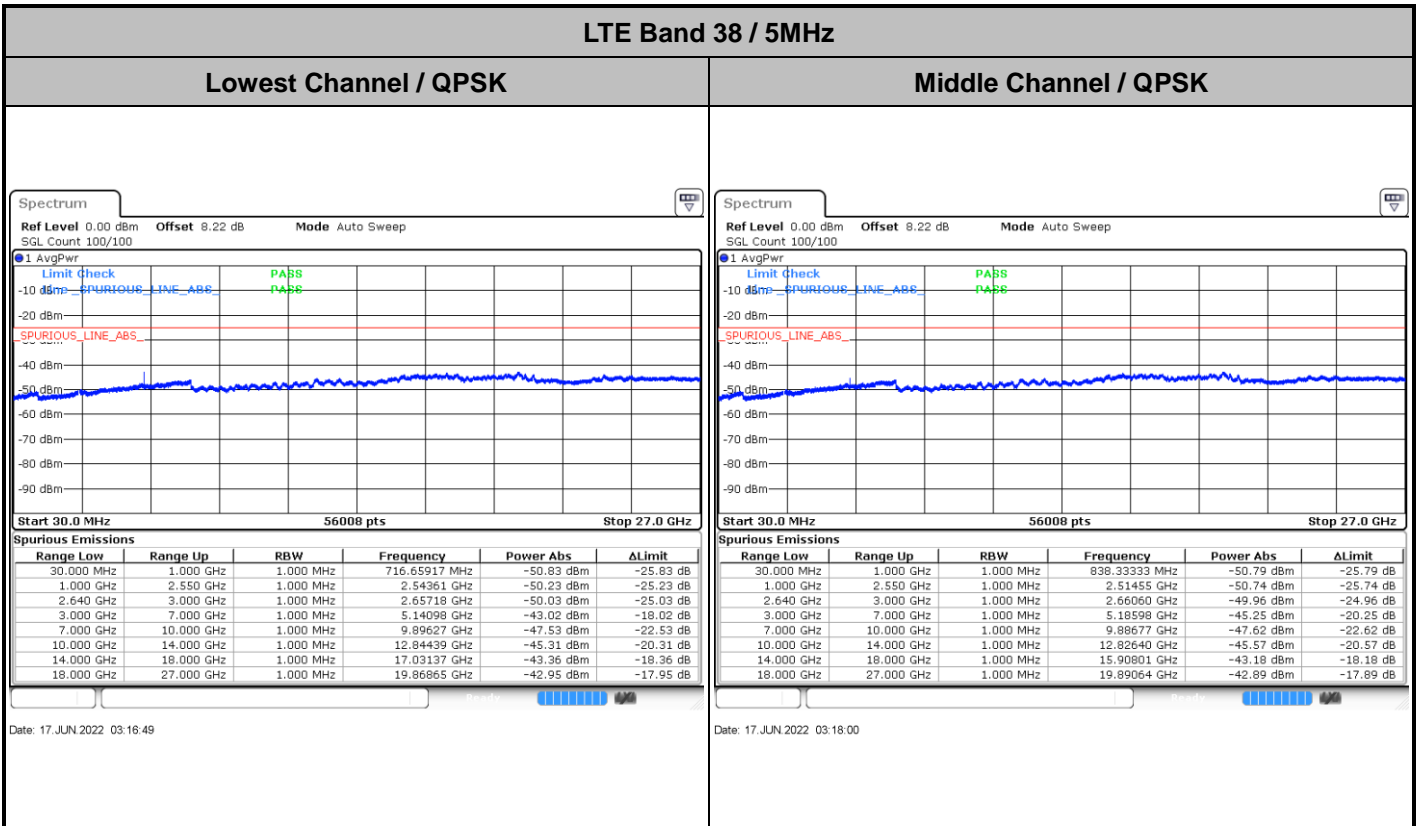
Highest Band Edge / Full RB



Date: 17 JUN 2022 03:09:23



Conducted Spurious Emission

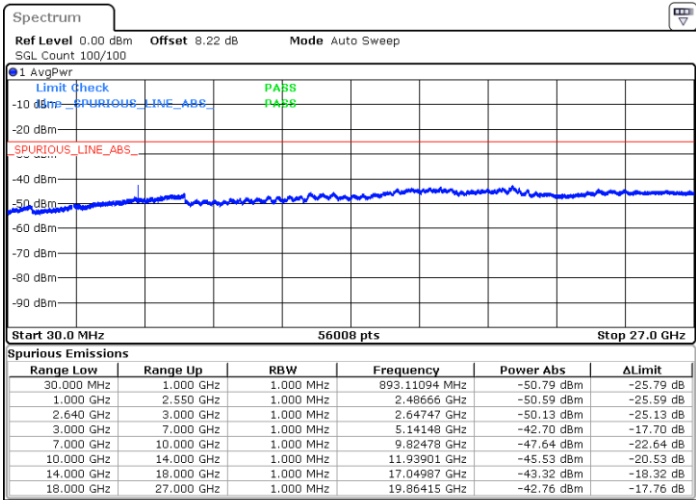




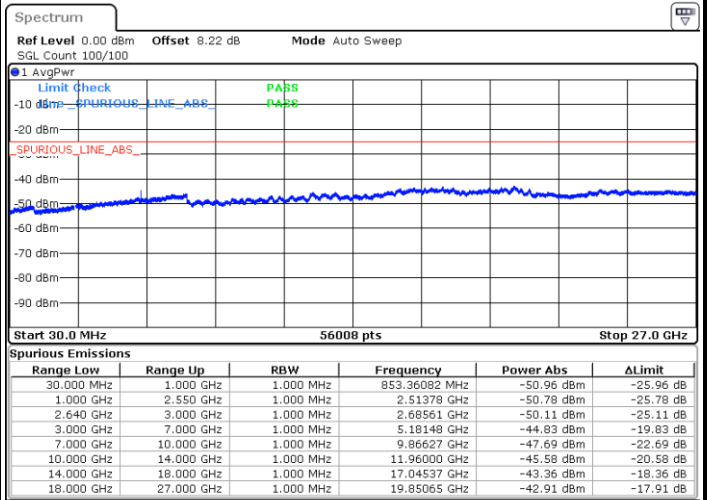
LTE Band 38 / 10MHz

Lowest Channel / QPSK

Middle Channel / QPSK

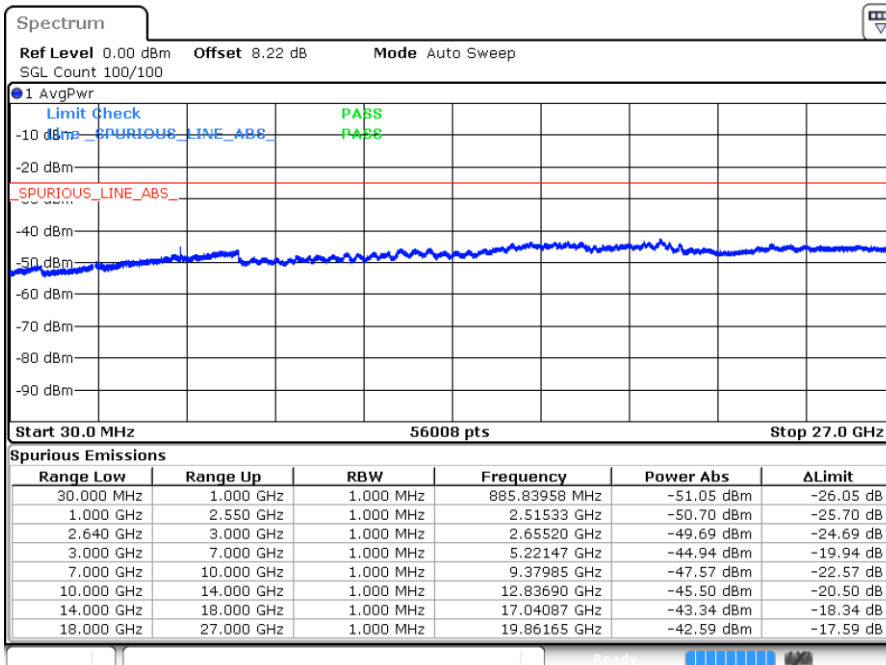


Date: 17 JUN 2022 02:29:27



Date: 17 JUN 2022 02:30:49

Highest Channel / QPSK



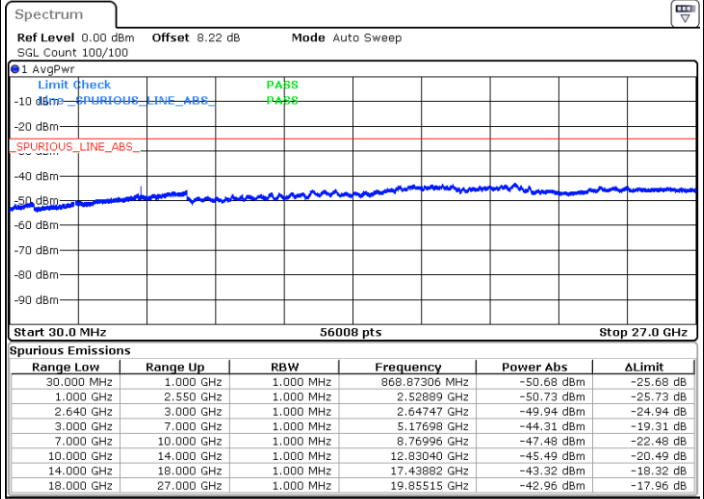
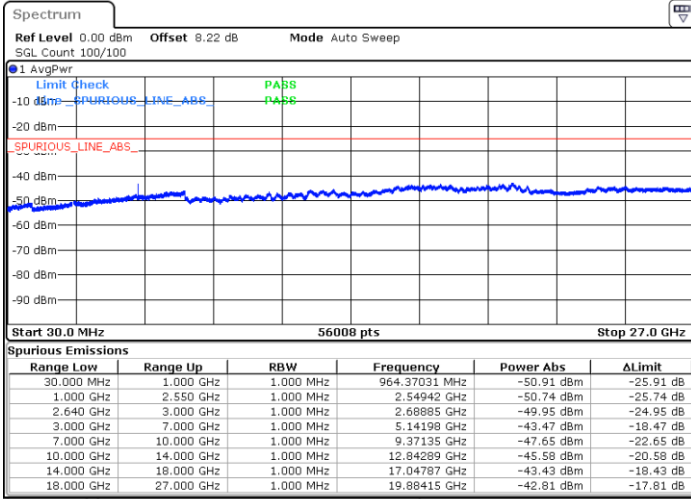
Date: 17 JUN 2022 02:32:10



LTE Band 38 / 15MHz

Lowest Channel / QPSK

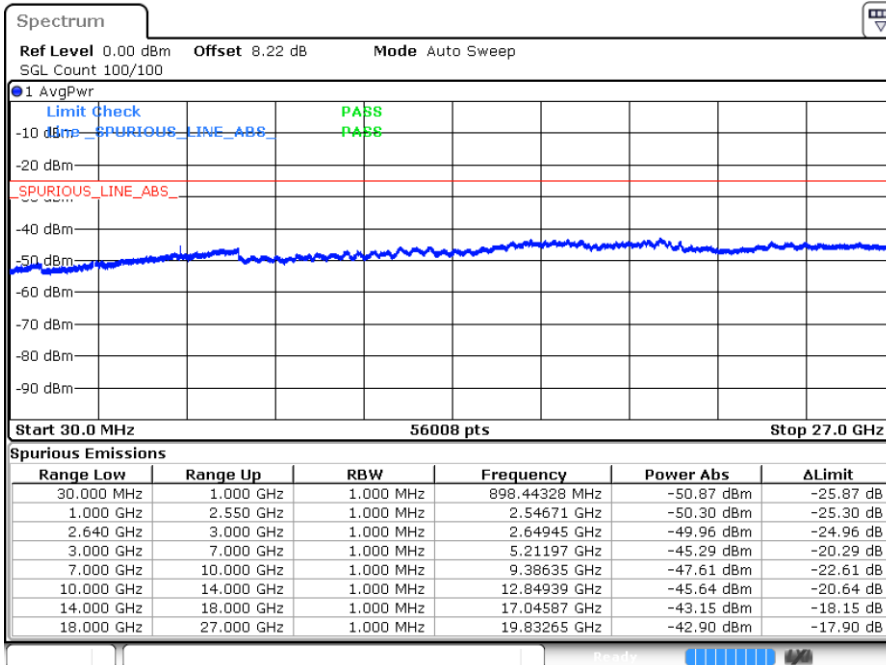
Middle Channel / QPSK



Date: 17 JUN 2022 02:50:08

Date: 17 JUN 2022 02:51:19

Highest Channel / QPSK



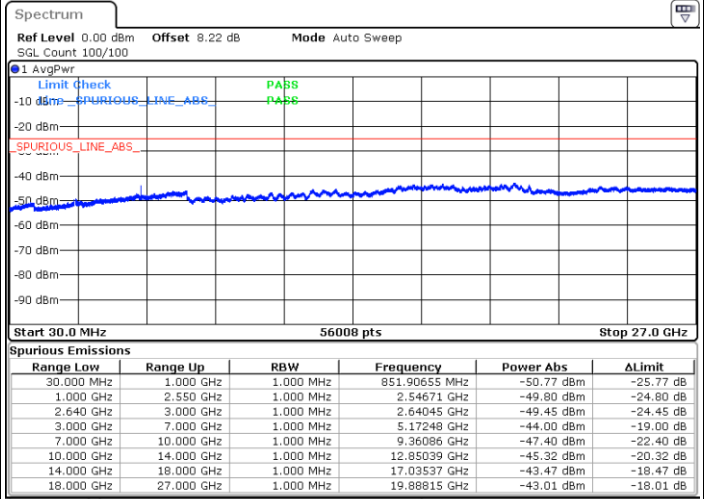
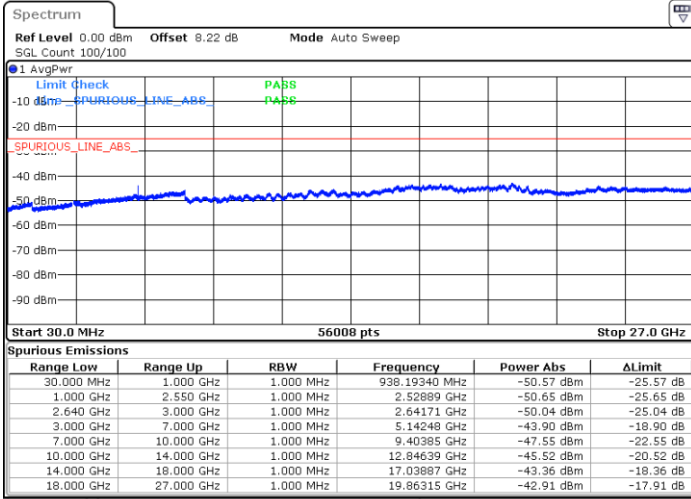
Date: 17 JUN 2022 02:52:30



LTE Band 38 / 20MHz

Lowest Channel / QPSK

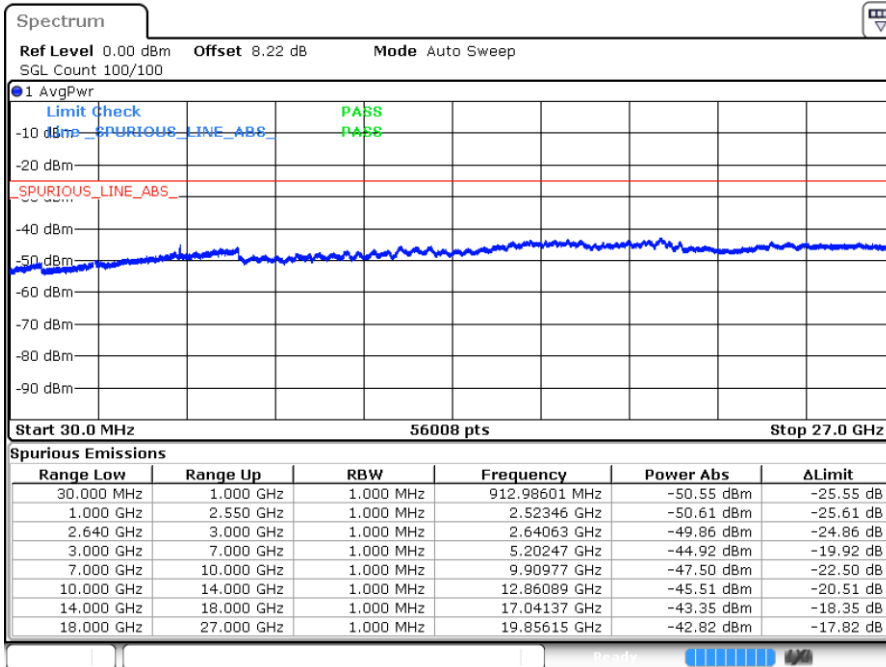
Middle Channel / QPSK



Date: 17 JUN 2022 03:03:28

Date: 17 JUN 2022 03:04:39

Highest Channel / QPSK



Date: 17 JUN 2022 03:05:52



Frequency Stability

Test Conditions		LTE Band 38 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0028	PASS
40	Normal Voltage	0.0019	
30	Normal Voltage	0.0011	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0023	
0	Normal Voltage	0.0016	
-10	Normal Voltage	0.0013	
-20	Normal Voltage	0.0021	
-30	Normal Voltage	0.0019	
20	Maximum Voltage	0.0012	
20	Normal Voltage	0.0007	
20	Battery End Point	0.0014	

Note:

1. Normal Voltage =3.87V. ; Battery End Point (BEP) =3.55V. ; Maximum Voltage =4.45V.
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	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	5.1	7.16	6.70	PASS

