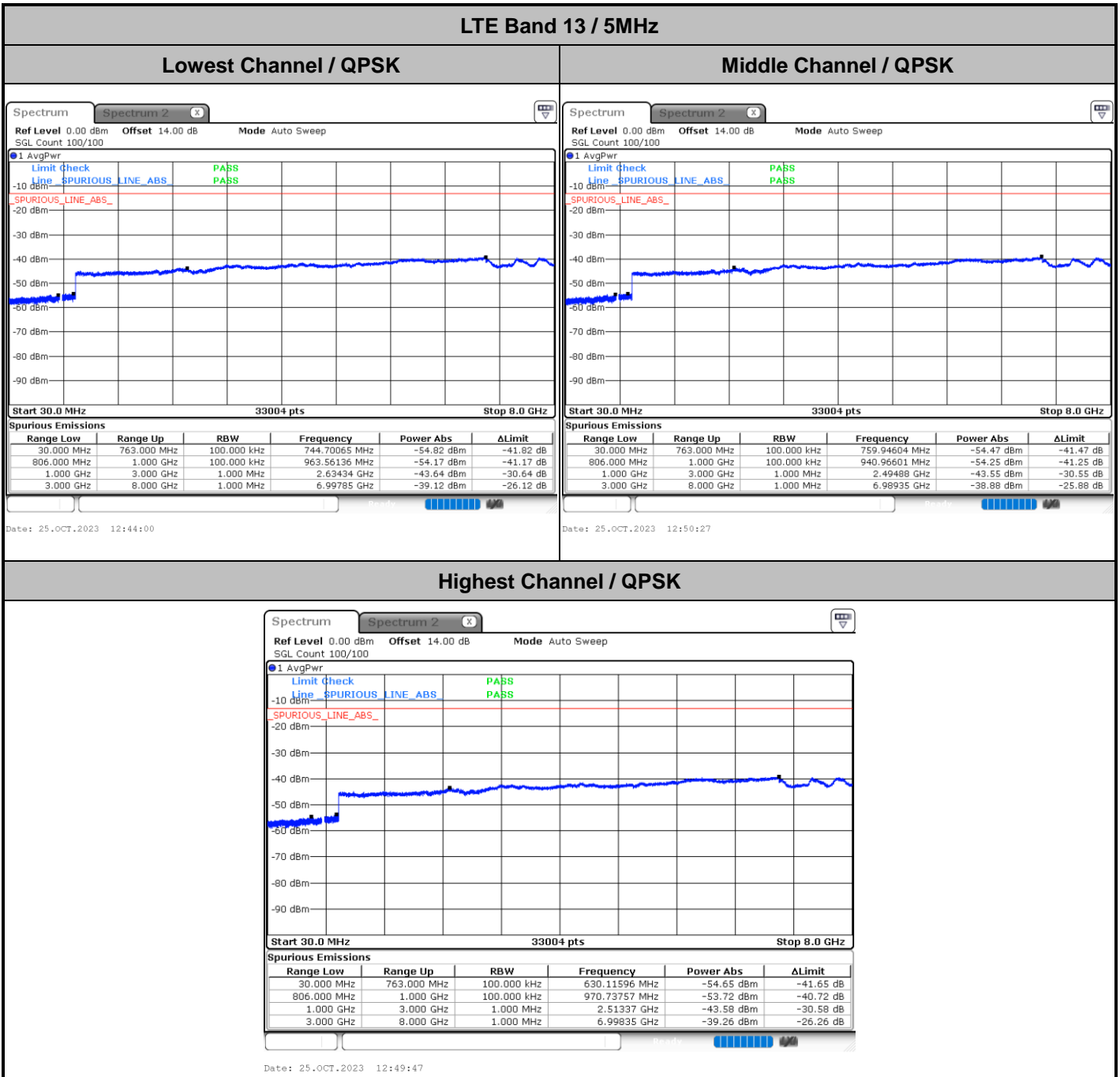




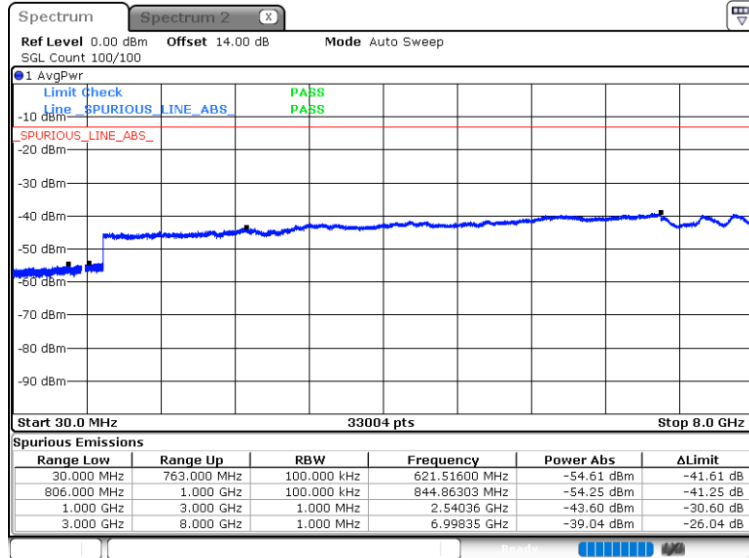
Conducted Spurious Emission





LTE Band 13 / 10MHz

Middle Channel / QPSK



Date: 25.OCT.2023 14:05:29



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	0.0012	PASS
40	Normal Voltage	0.0009	
30	Normal Voltage	0.0022	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0033	
0	Normal Voltage	0.0066	
-10	Normal Voltage	0.0046	
-20	Normal Voltage	0.0038	
-30	Normal Voltage	0.0056	
20	Maximum Voltage	0.0065	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0031	

Note:

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.4 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 41

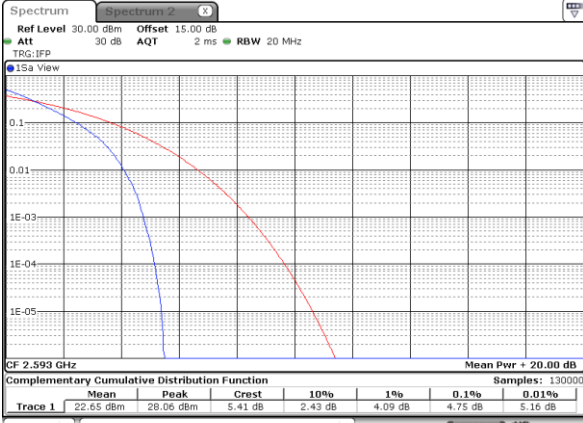
Peak-to-Average Ratio

Mode	LTE Band 41 / 20MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	4.75	5.65	6.06	PASS



LTE Band 41 / 20MHz / QPSK

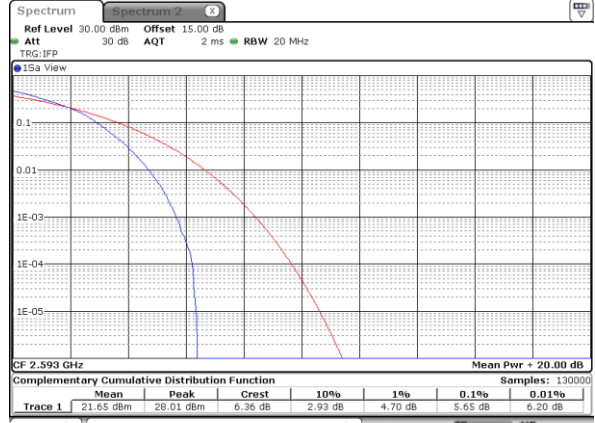
Middle Channel / Full RB



Date: 25.OCT.2023 17:35:06

LTE Band 41 / 20MHz / 16QAM

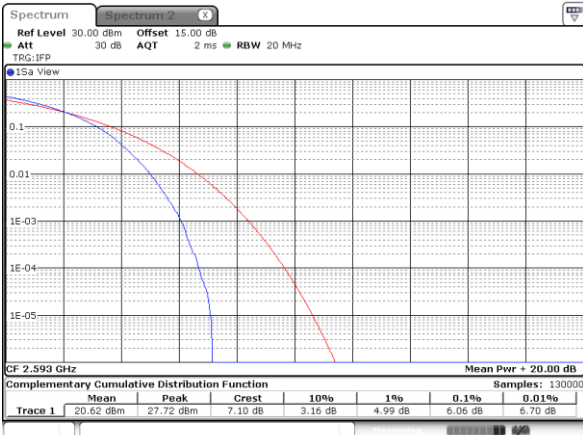
Middle Channel / Full RB



Date: 25.OCT.2023 17:35:31

LTE Band 41 / 20MHz / 64QAM

Middle Channel / Full RB



Date: 25.OCT.2023 17:35:50



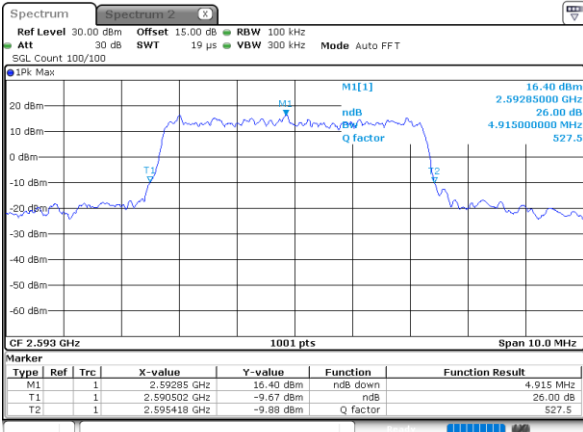
26dB Bandwidth

Mode	LTE Band 41 : 26dB BW(MHz)											
	BW				5MHz		10MHz		15MHz		20MHz	
Mod.					QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH					4.92	4.92	9.79	9.63	14.57	14.45	18.66	18.86



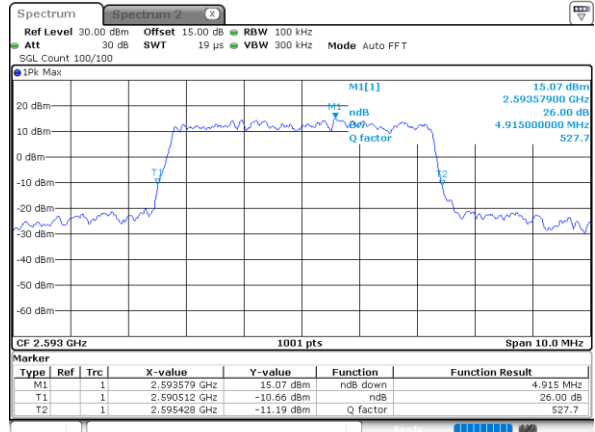
LTE Band 41

Middle Channel / 5MHz / QPSK



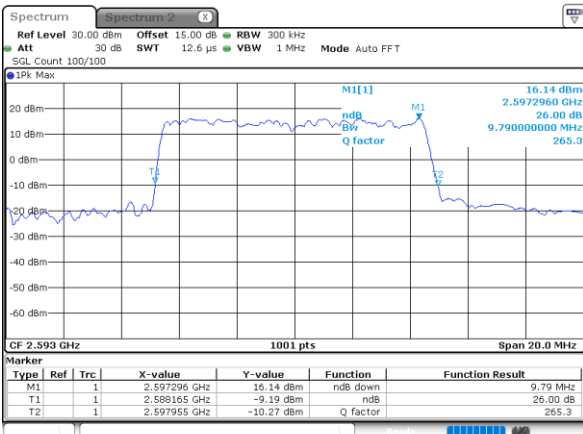
Date: 25.OCT.2023 16:27:00

Middle Channel / 5MHz / 16QAM



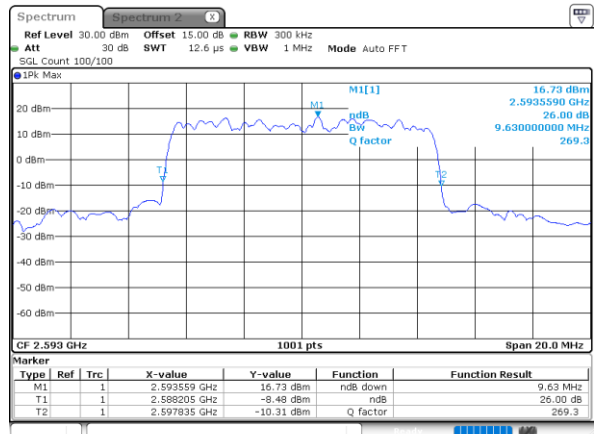
Date: 25.OCT.2023 16:27:40

Middle Channel / 10MHz / QPSK



Date: 25.OCT.2023 16:55:17

Middle Channel / 10MHz / 16QAM



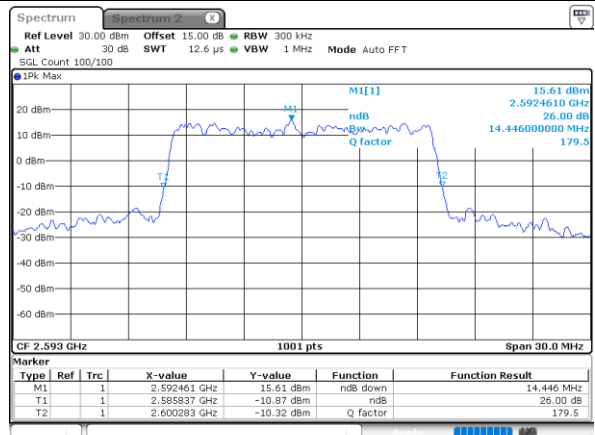
Date: 25.OCT.2023 16:56:07

Middle Channel / 15MHz / QPSK



Date: 25.OCT.2023 17:14:30

Middle Channel / 15MHz / 16QAM

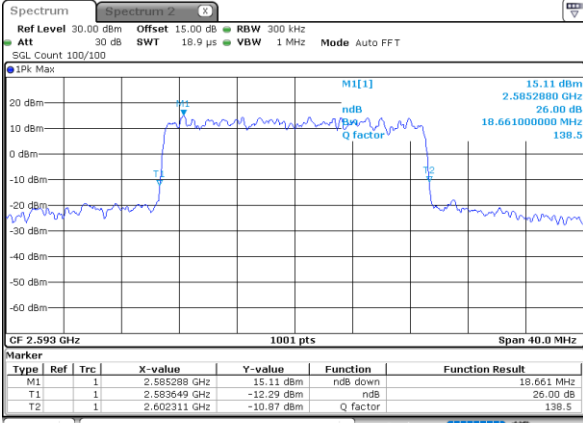


Date: 25.OCT.2023 17:15:32



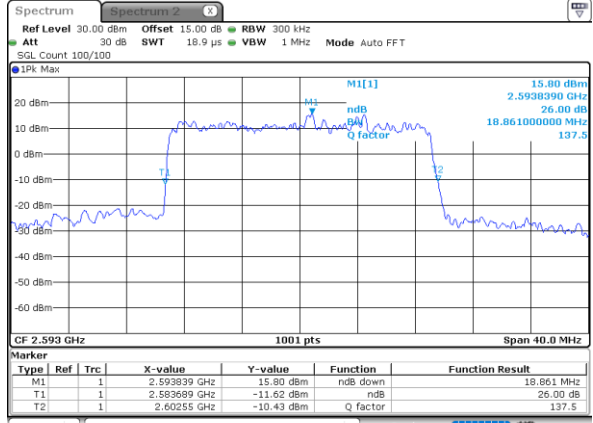
LTE Band 41

Middle Channel / 20MHz / QPSK



Date: 25.OCT.2023 17:33:19

Middle Channel / 20MHz / 16QAM



Date: 25.OCT.2023 17:34:09



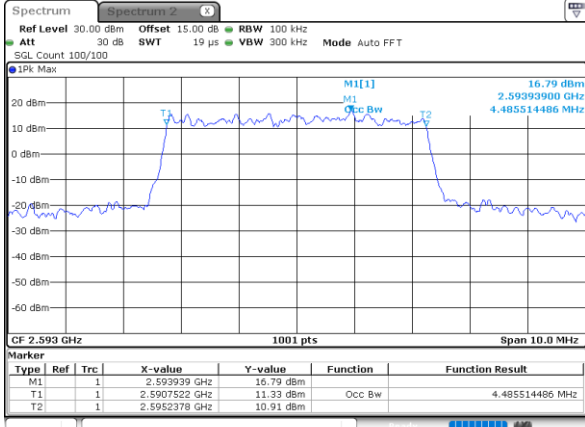
Occupied Bandwidth

Mode	LTE Band 41 : 99%OBW(MHz)											
	BW				5MHz		10MHz		15MHz		20MHz	
Mod.					QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH					4.49	4.49	9.01	9.03	13.49	13.43	17.86	17.90



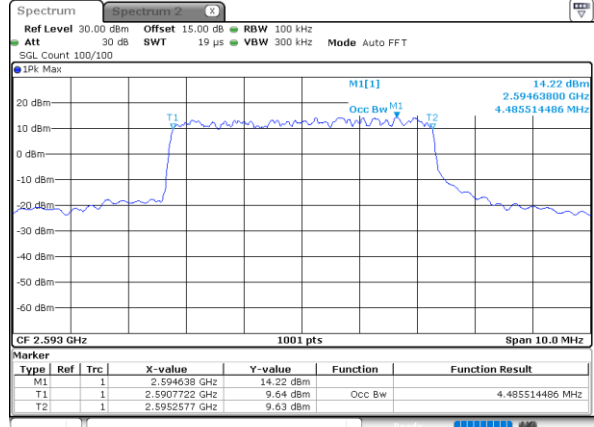
LTE Band 41

Middle Channel / 5MHz / QPSK



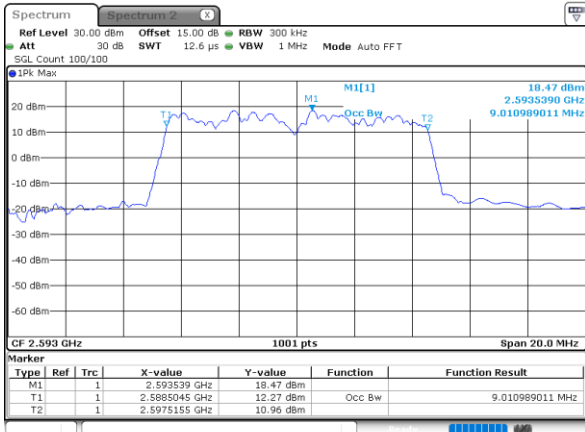
Date: 25.OCT.2023 16:26:40

Middle Channel / 5MHz / 16QAM



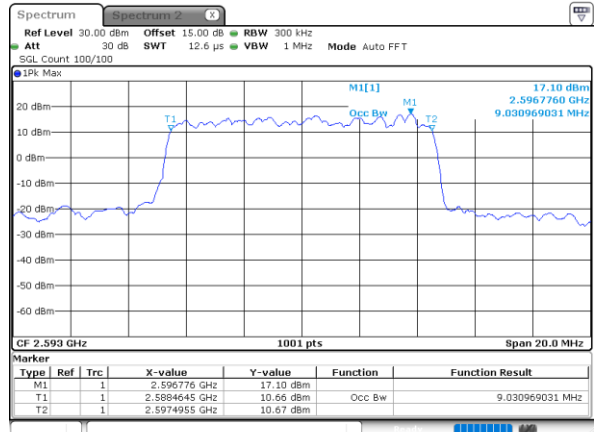
Date: 25.OCT.2023 16:27:26

Middle Channel / 10MHz / QPSK



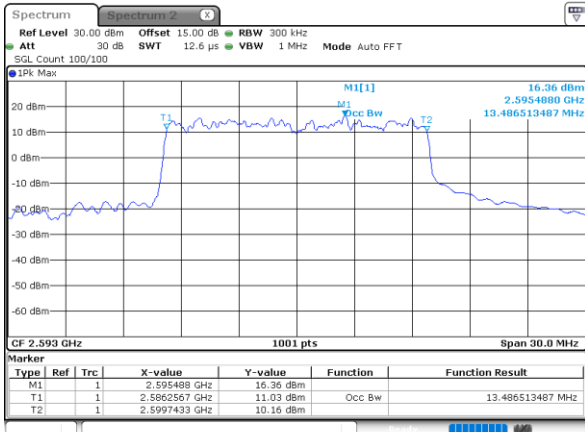
Date: 25.OCT.2023 16:54:57

Middle Channel / 10MHz / 16QAM



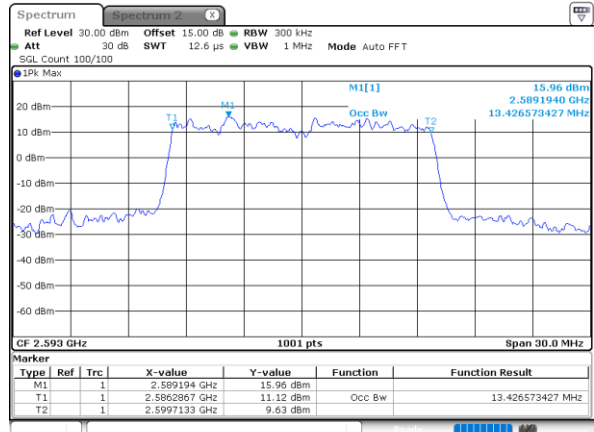
Date: 25.OCT.2023 16:55:46

Middle Channel / 15MHz / QPSK



Date: 25.OCT.2023 17:14:15

Middle Channel / 15MHz / 16QAM

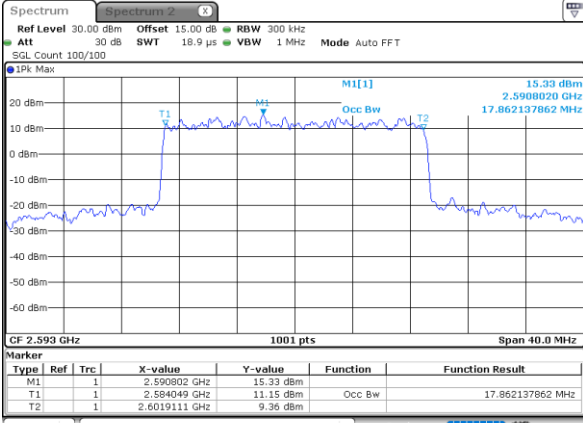


Date: 25.OCT.2023 17:15:07



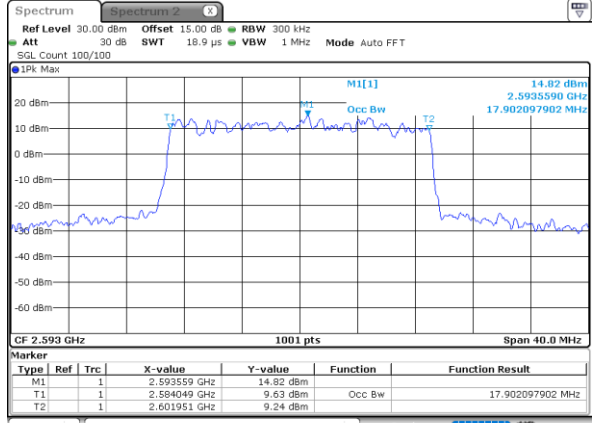
LTE Band 41

Middle Channel / 20MHz / QPSK



Date: 25.OCT.2023 17:33:06

Middle Channel / 20MHz / 16QAM



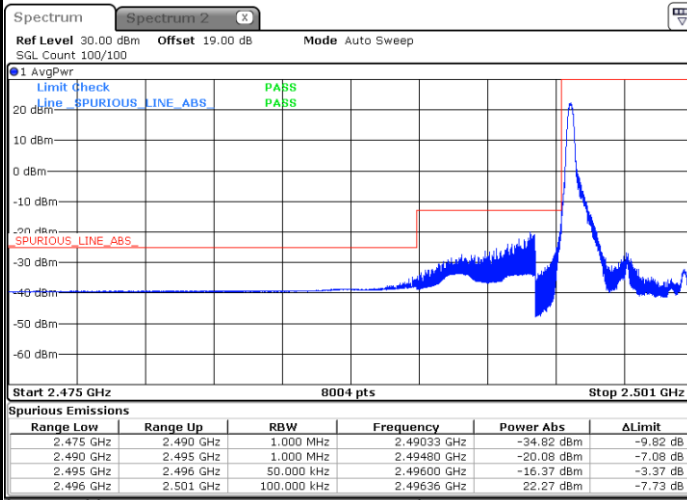
Date: 25.OCT.2023 17:33:45



Conducted Band Edge

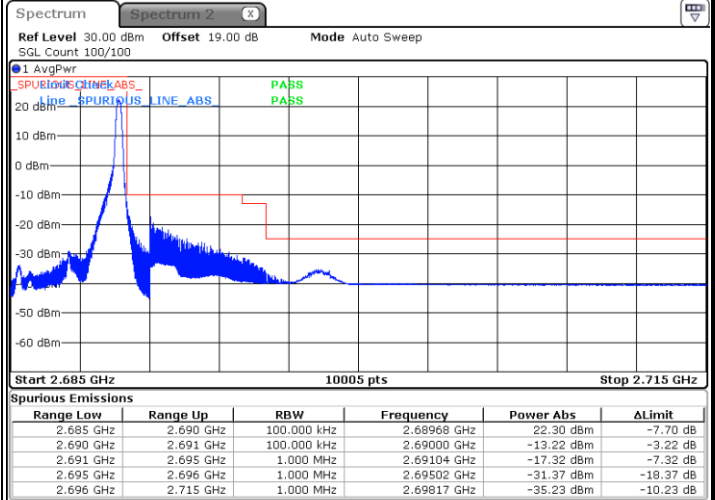
LTE Band 41 / 5MHz / QPSK

Lowest Band Edge / 1 RB



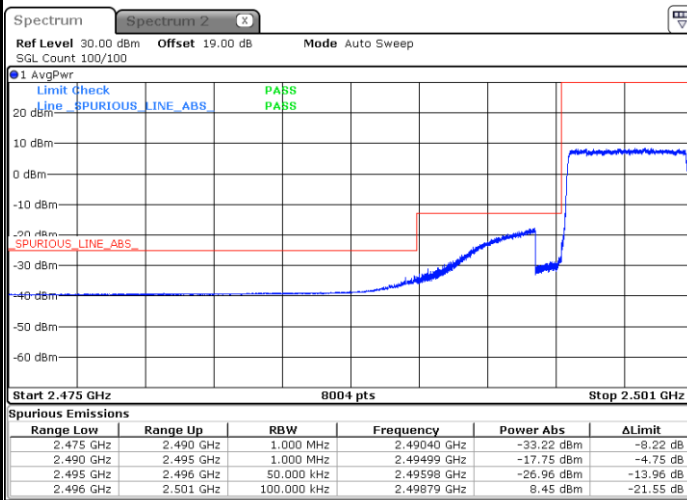
Date: 25.OCT.2023 16:10:31

Highest Band Edge / 1 RB



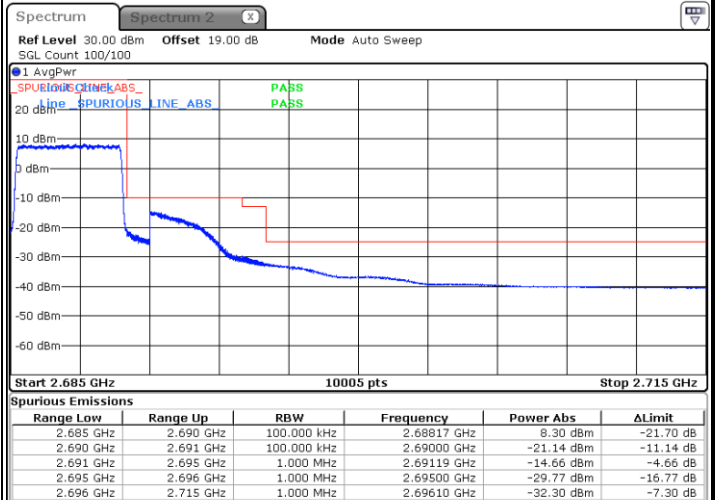
Date: 25.OCT.2023 16:23:04

Lowest Band Edge / Full RB



Date: 25.OCT.2023 16:16:05

Highest Band Edge / Full RB

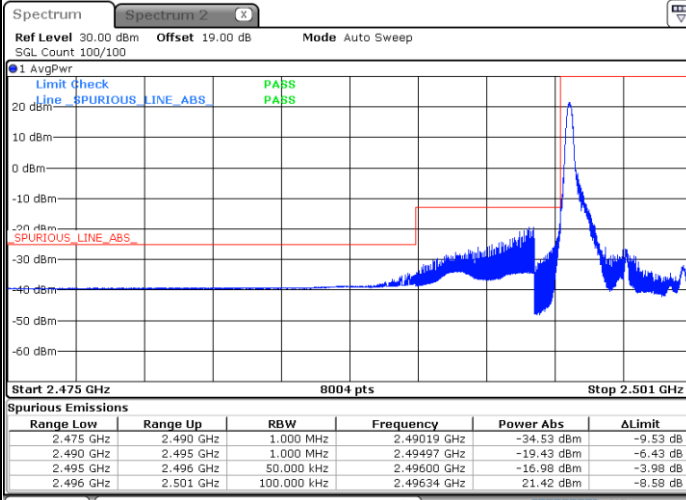


Date: 25.OCT.2023 16:17:21



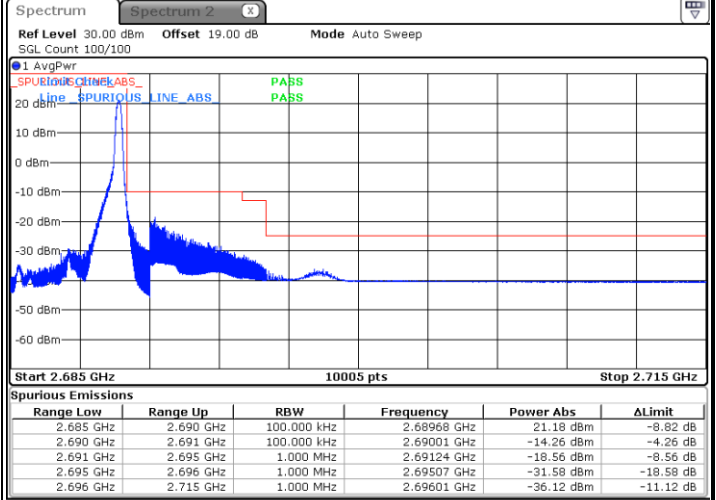
LTE Band 41 / 5MHz / 16QAM

Lowest Band Edge / 1RB



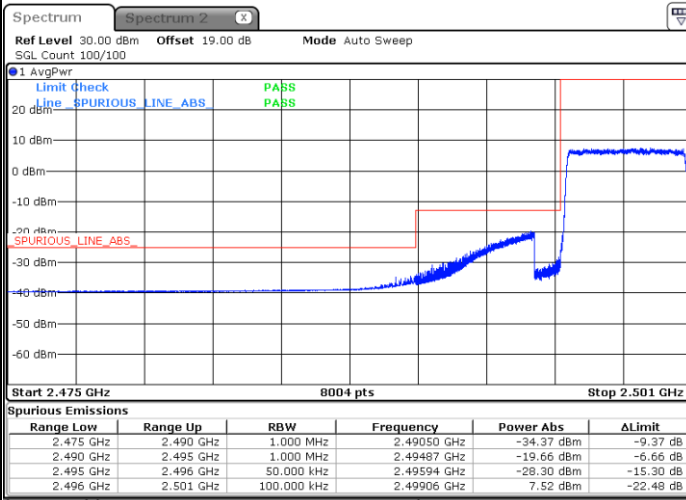
Date: 25.OCT.2023 16:12:16

Highest Band Edge / 1 RB



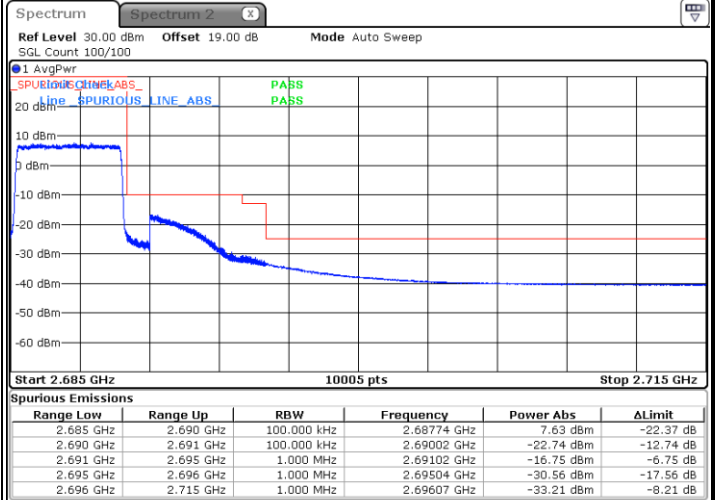
Date: 25.OCT.2023 16:21:58

Lowest Band Edge / Full RB



Date: 25.OCT.2023 16:15:14

Highest Band Edge / Full RB

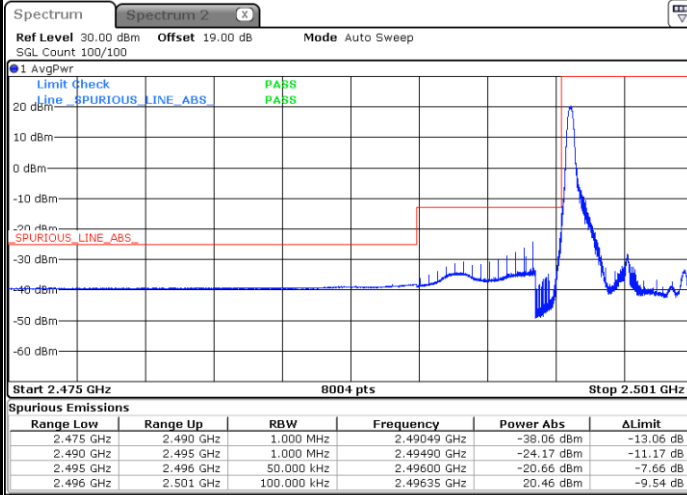


Date: 25.OCT.2023 16:18:38



LTE Band 41 / 5MHz / 64QAM

Lowest Band Edge / 1RB



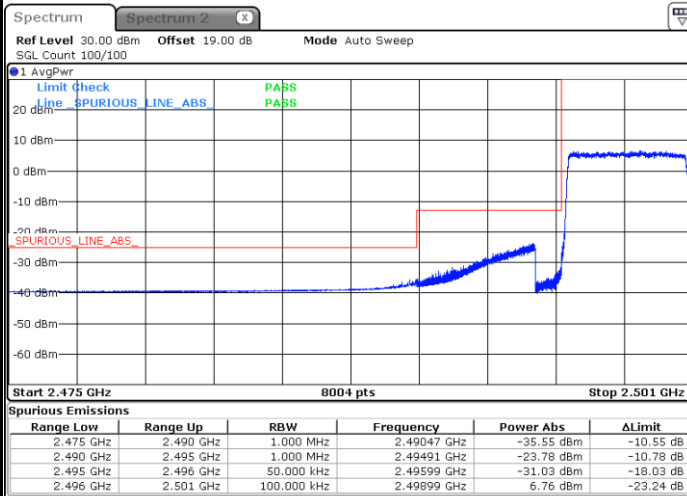
Date: 25.OCT.2023 16:13:06

Highest Band Edge / 1 RB



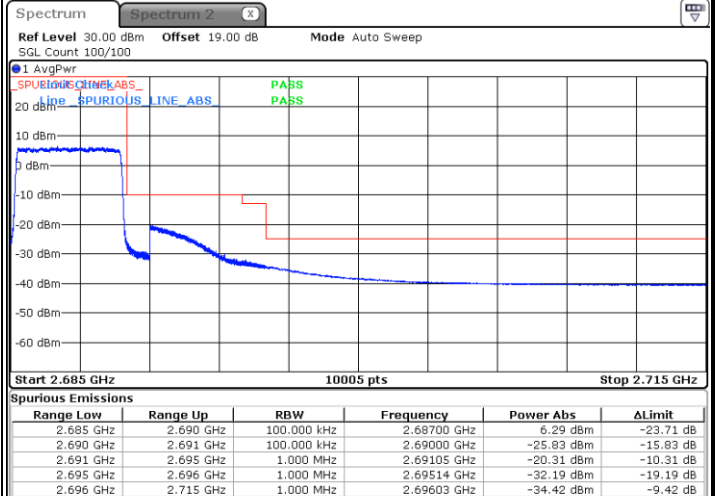
Date: 25.OCT.2023 16:20:56

Lowest Band Edge / Full RB



Date: 25.OCT.2023 16:14:24

Highest Band Edge / Full RB

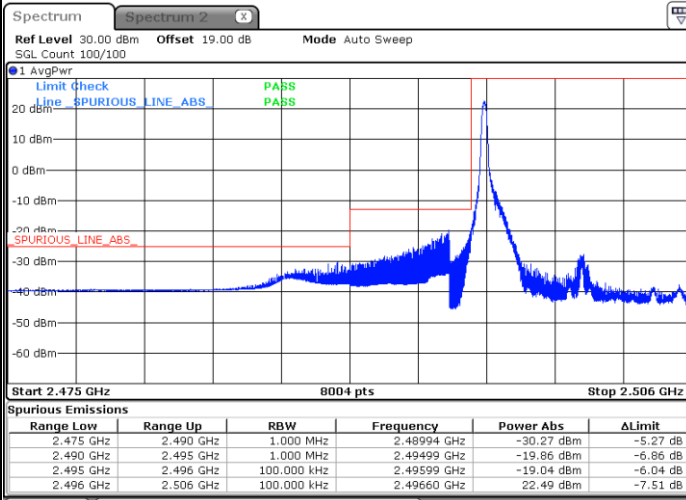


Date: 25.OCT.2023 16:19:41



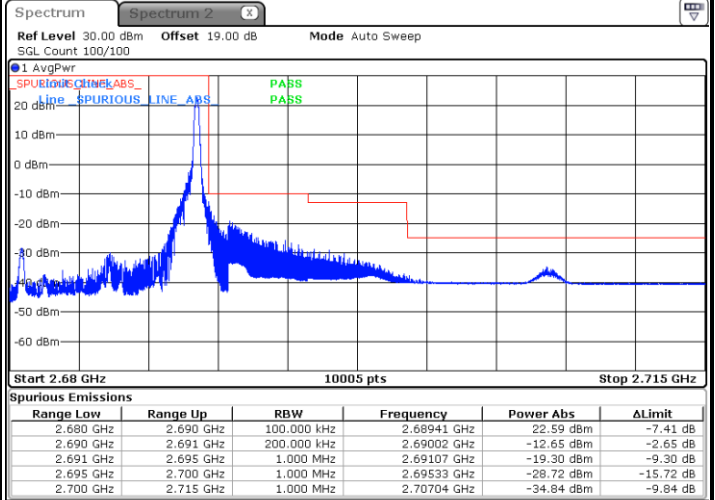
LTE Band 41 / 10MHz / QPSK

Lowest Band Edge / 1 RB



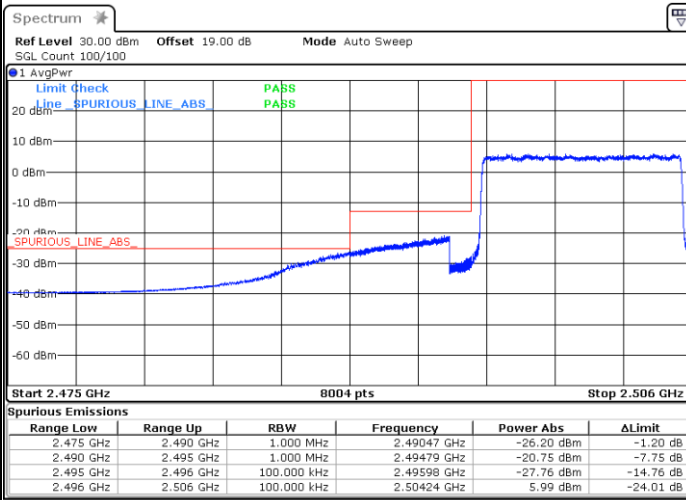
Date: 25.OCT.2023 16:29:42

Highest Band Edge / 1 RB



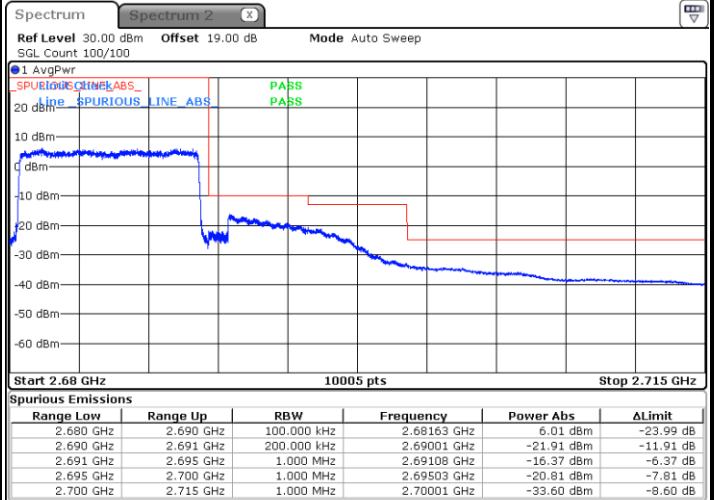
Date: 25.OCT.2023 16:49:20

Lowest Band Edge / Full RB



Date: 8.NOV.2023 13:36:26

Highest Band Edge / Full RB

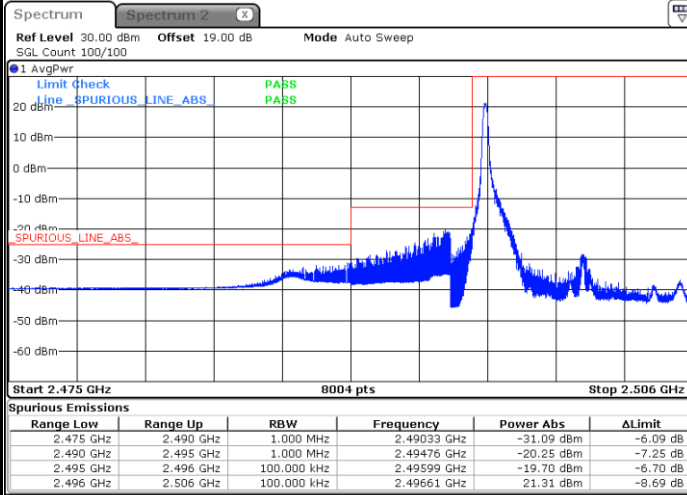


Date: 25.OCT.2023 16:45:40



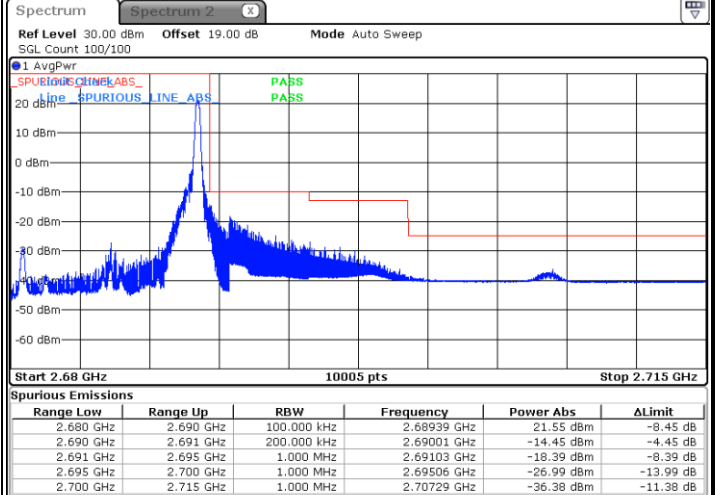
LTE Band 41 / 10MHz / 16QAM

Lowest Band Edge / 1RB



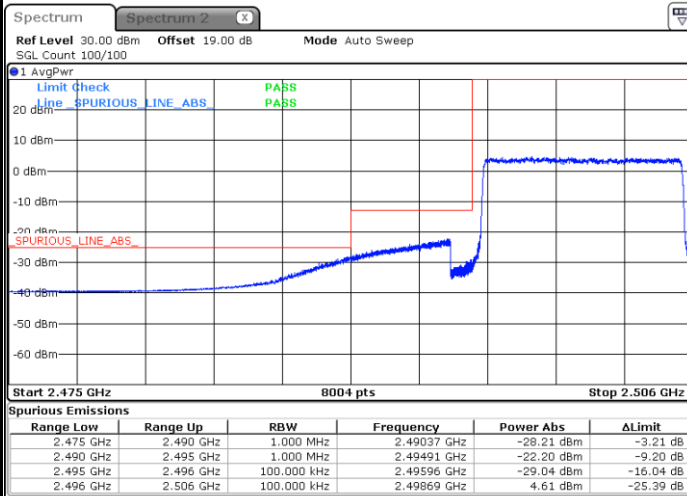
Date: 25.OCT.2023 16:31:38

Highest Band Edge / 1 RB



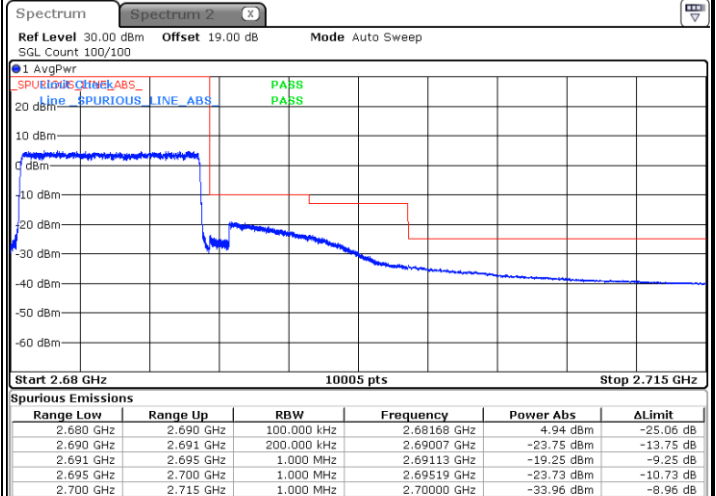
Date: 25.OCT.2023 16:48:37

Lowest Band Edge / Full RB



Date: 25.OCT.2023 16:43:23

Highest Band Edge / Full RB

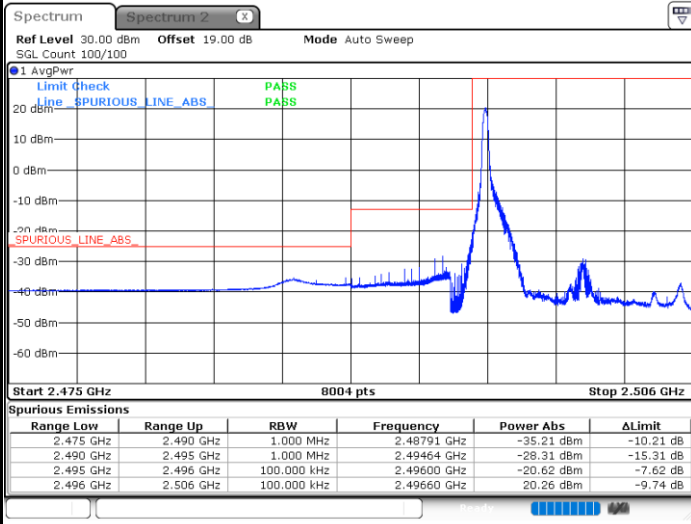


Date: 25.OCT.2023 16:46:15



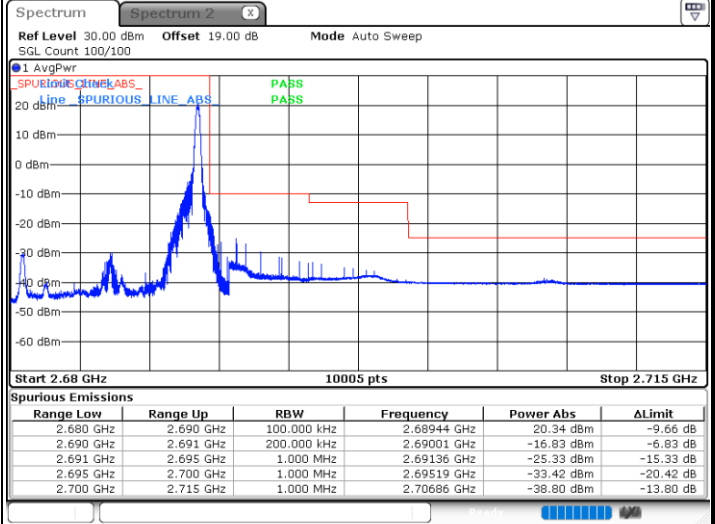
LTE Band 41 / 10MHz / 64QAM

Lowest Band Edge / 1RB



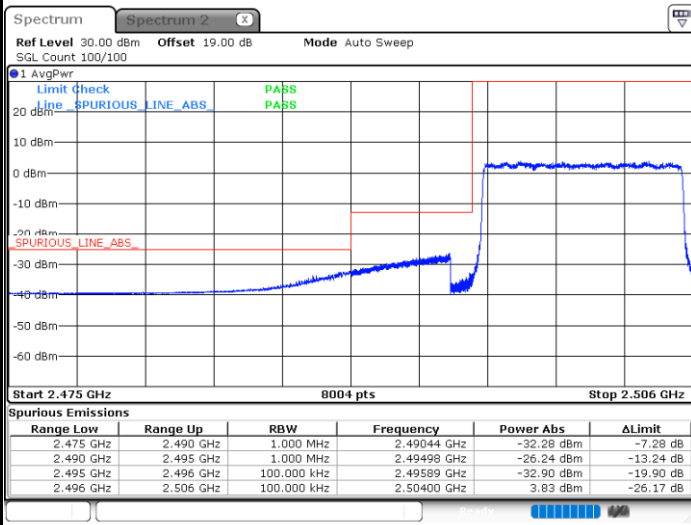
Date: 25.OCT.2023 16:41:23

Highest Band Edge / 1 RB



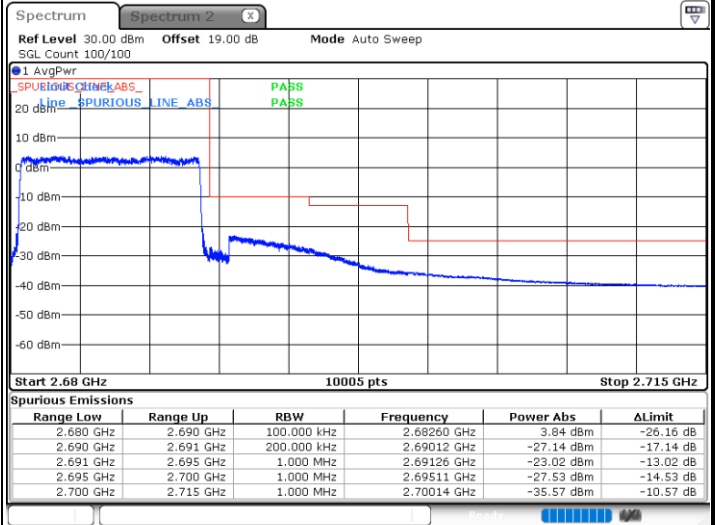
Date: 25.OCT.2023 16:47:55

Lowest Band Edge / Full RB



Date: 25.OCT.2023 16:42:29

Highest Band Edge / Full RB

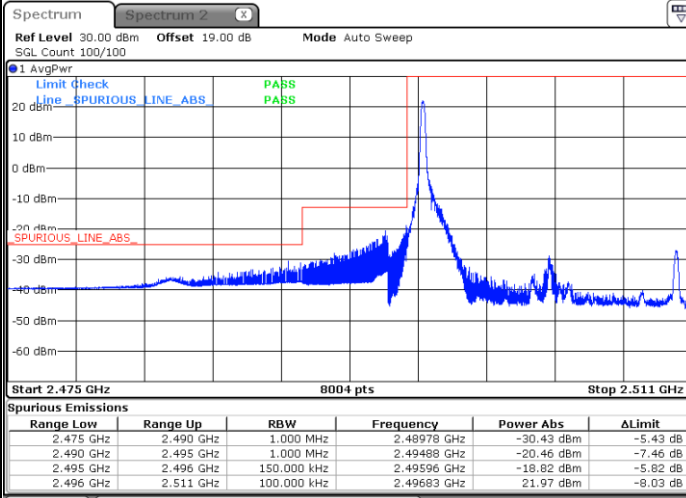


Date: 25.OCT.2023 16:47:01



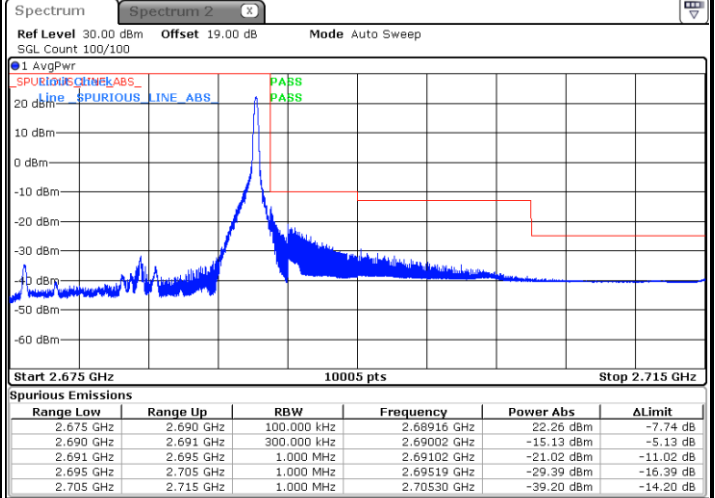
LTE Band 41 / 15MHz / QPSK

Lowest Band Edge / 1 RB



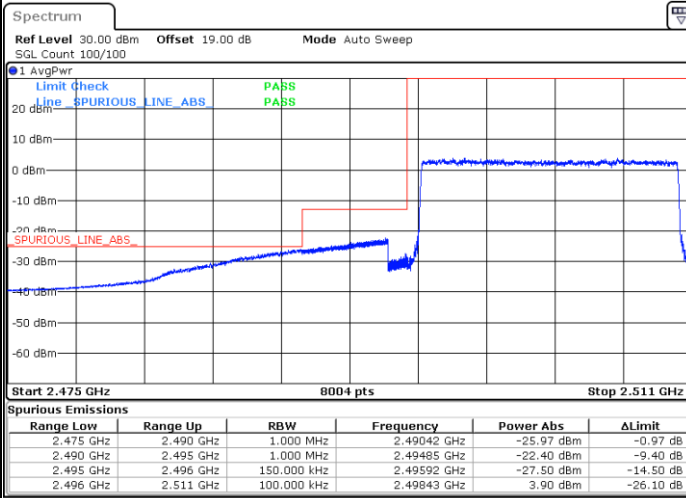
Date: 25.OCT.2023 16:59:11

Highest Band Edge / 1 RB



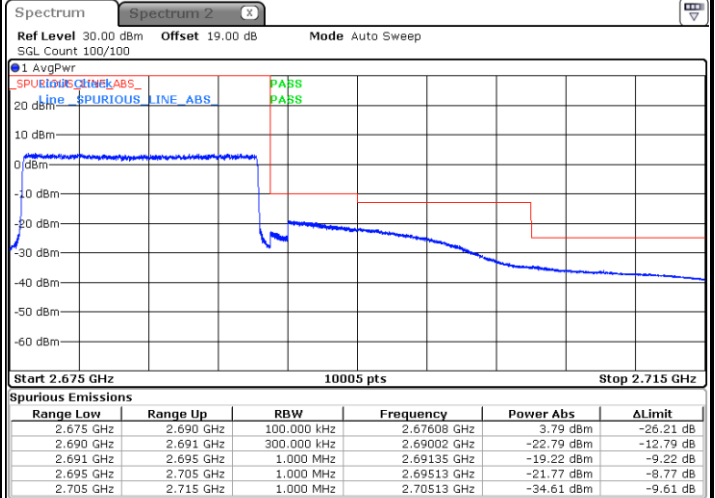
Date: 25.OCT.2023 17:10:58

Lowest Band Edge / Full RB



Date: 26.OCT.2023 09:56:43

Highest Band Edge / Full RB

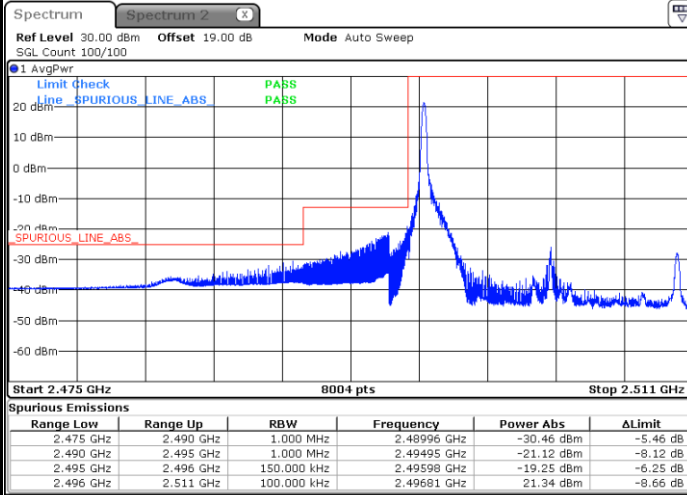


Date: 25.OCT.2023 17:05:37



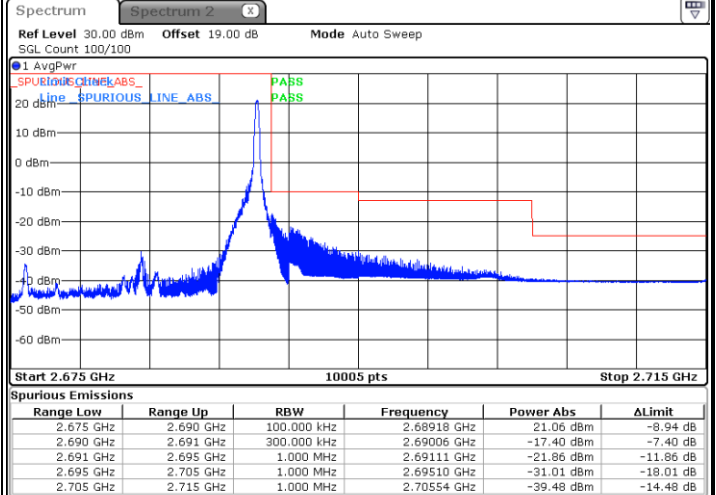
LTE Band 41 / 15MHz / 16QAM

Lowest Band Edge / 1RB



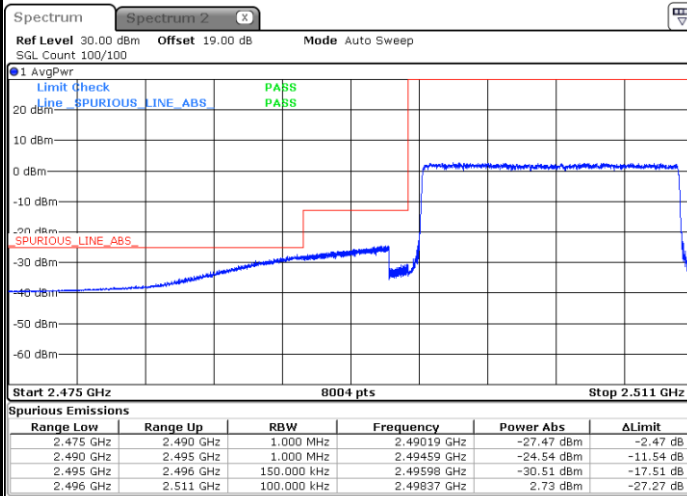
Date: 25.OCT.2023 17:01:09

Highest Band Edge / 1 RB



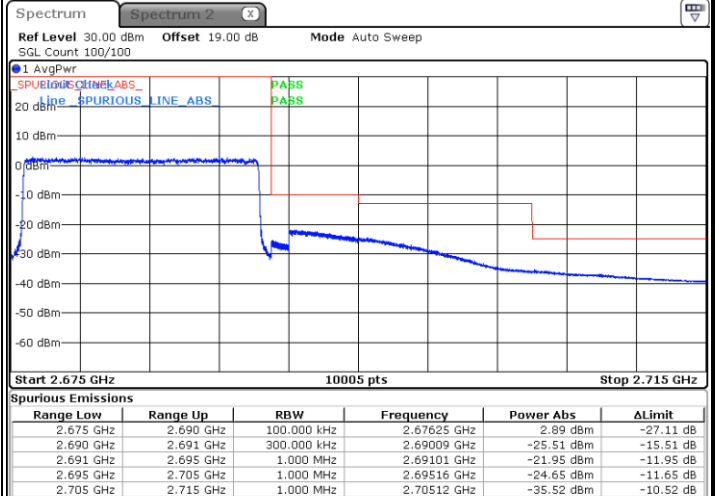
Date: 25.OCT.2023 17:10:07

Lowest Band Edge / Full RB



Date: 25.OCT.2023 17:03:27

Highest Band Edge / Full RB

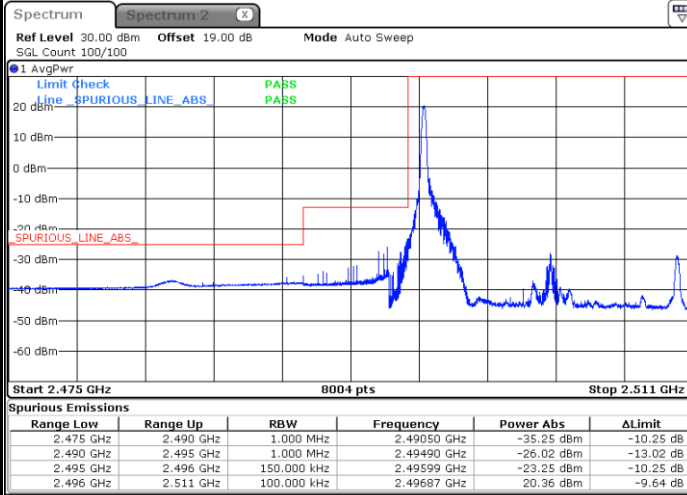


Date: 25.OCT.2023 17:06:30



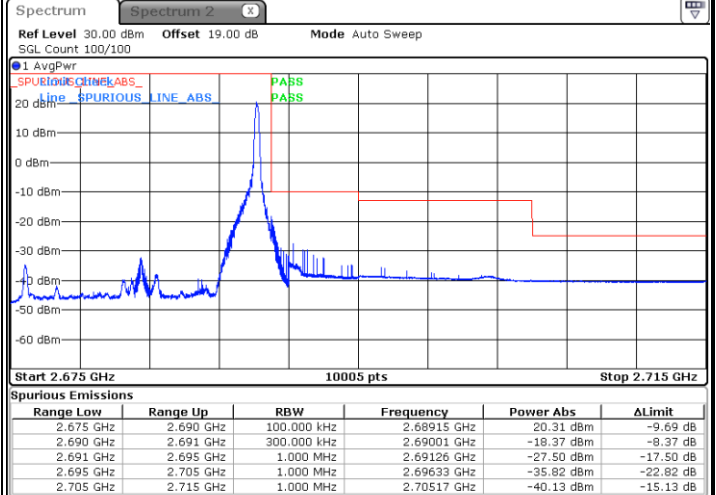
LTE Band 41 / 15MHz / 64QAM

Lowest Band Edge / 1RB



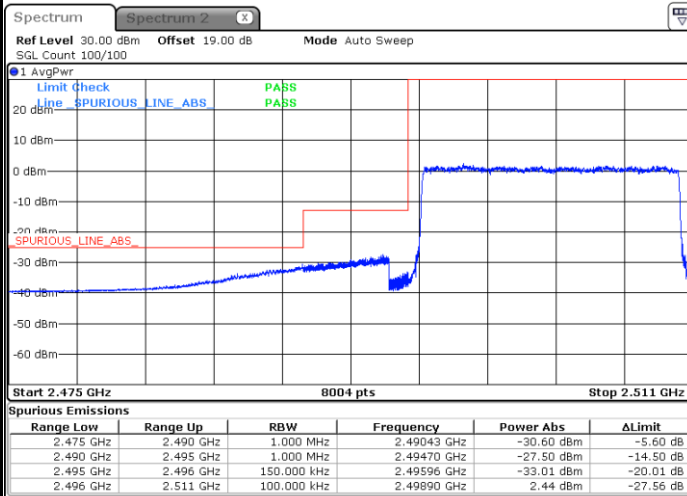
Date: 25.OCT.2023 17:01:53

Highest Band Edge / 1 RB



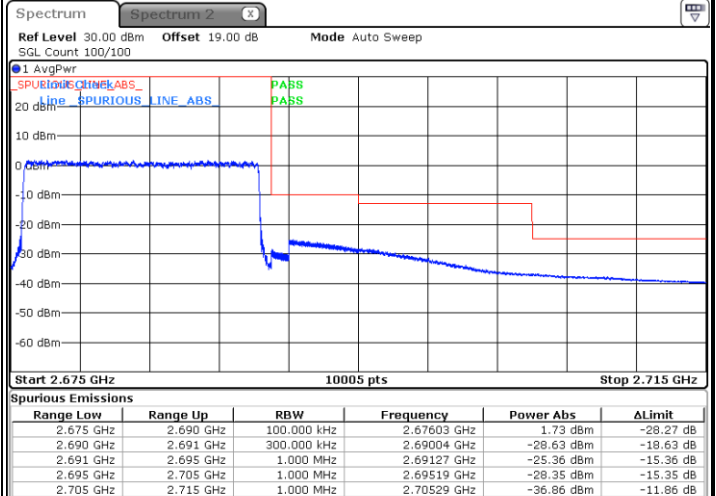
Date: 25.OCT.2023 17:09:08

Lowest Band Edge / Full RB



Date: 25.OCT.2023 17:02:48

Highest Band Edge / Full RB

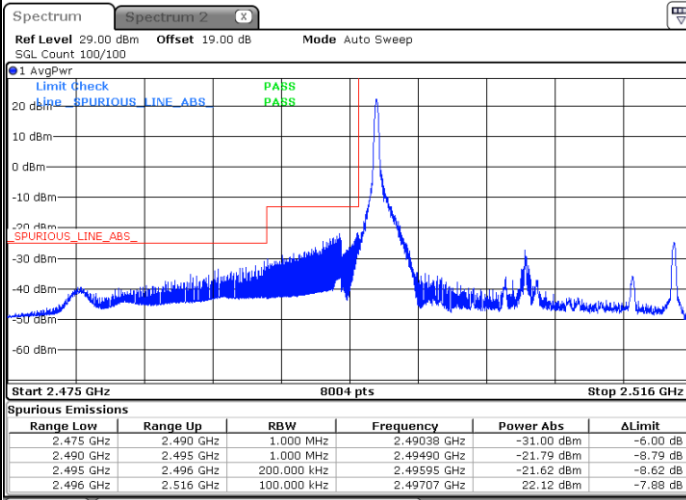


Date: 25.OCT.2023 17:07:49



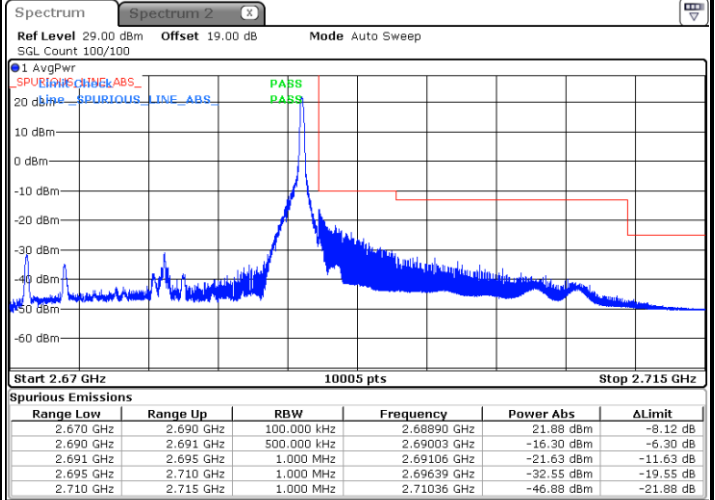
LTE Band 41 / 20MHz / QPSK

Lowest Band Edge / 1 RB



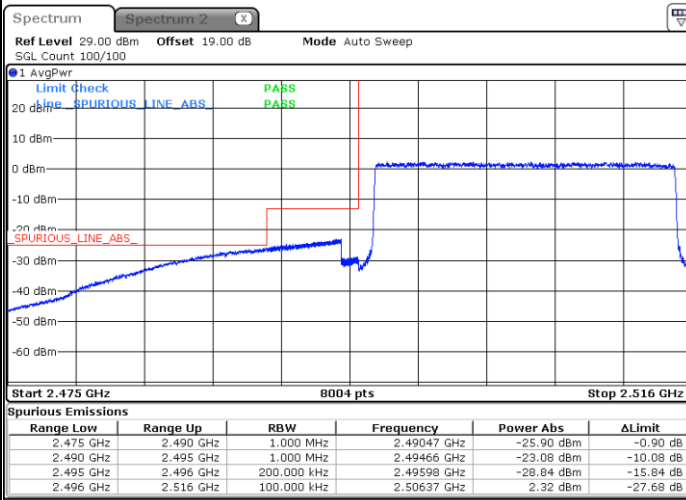
Date: 25.OCT.2023 17:17:28

Highest Band Edge / 1 RB



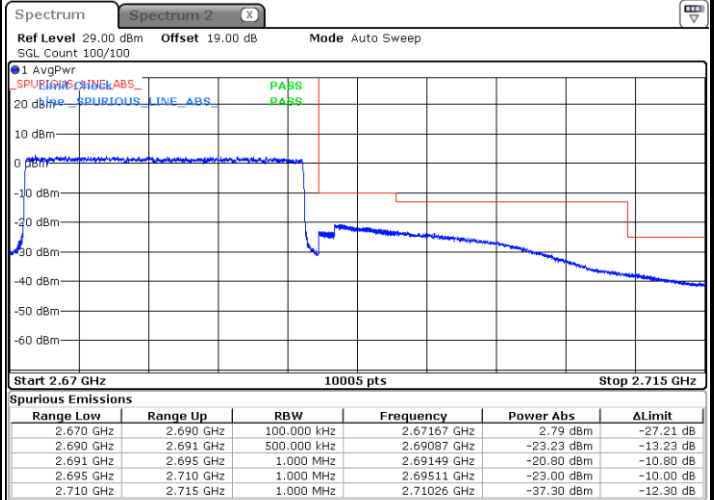
Date: 25.OCT.2023 17:29:43

Lowest Band Edge / Full RB



Date: 25.OCT.2023 17:23:11

Highest Band Edge / Full RB

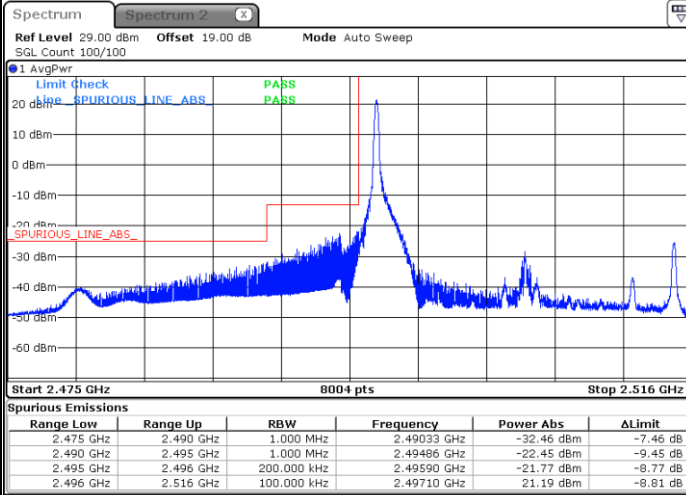


Date: 25.OCT.2023 17:24:30



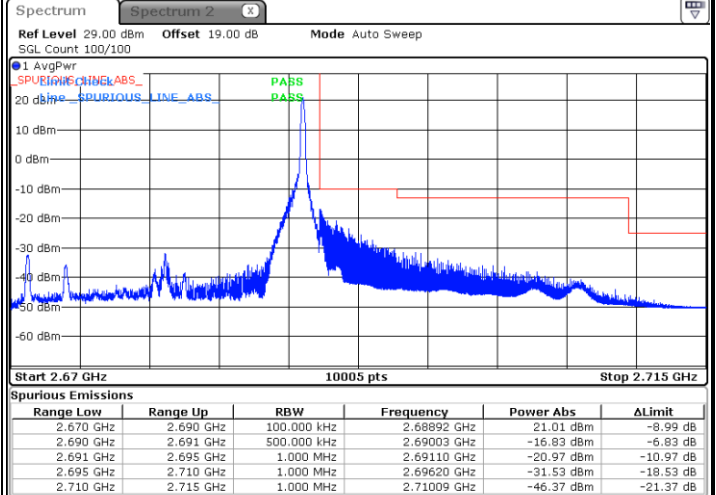
LTE Band 41 / 20MHz / 16QAM

Lowest Band Edge / 1RB



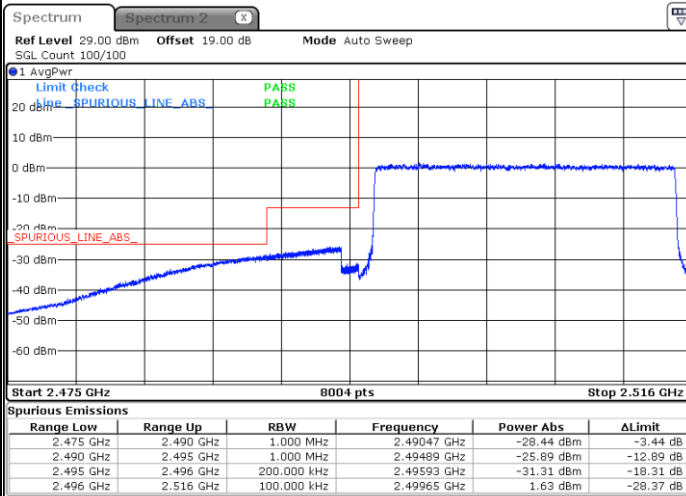
Date: 25.OCT.2023 17:19:23

Highest Band Edge / 1 RB



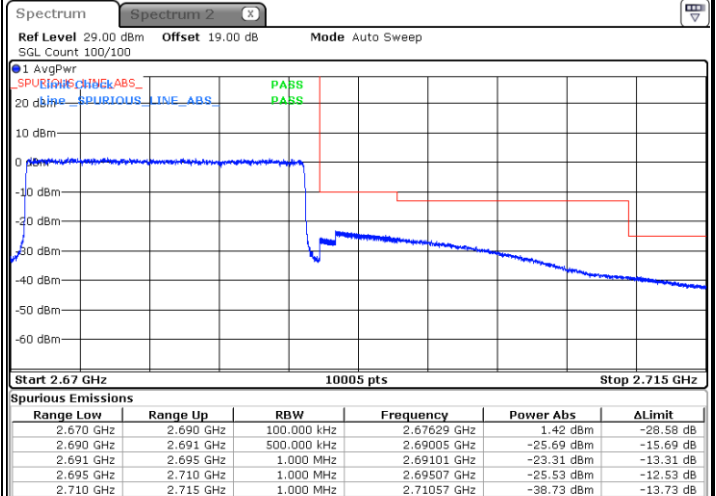
Date: 25.OCT.2023 17:28:51

Lowest Band Edge / Full RB



Date: 25.OCT.2023 17:22:09

Highest Band Edge / Full RB

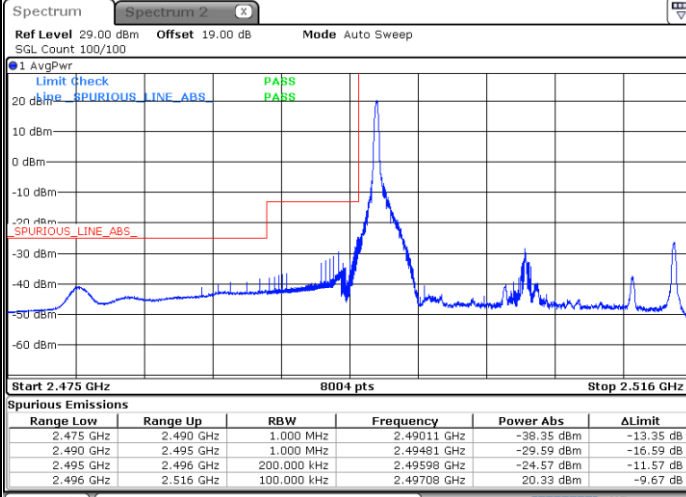


Date: 25.OCT.2023 17:25:45



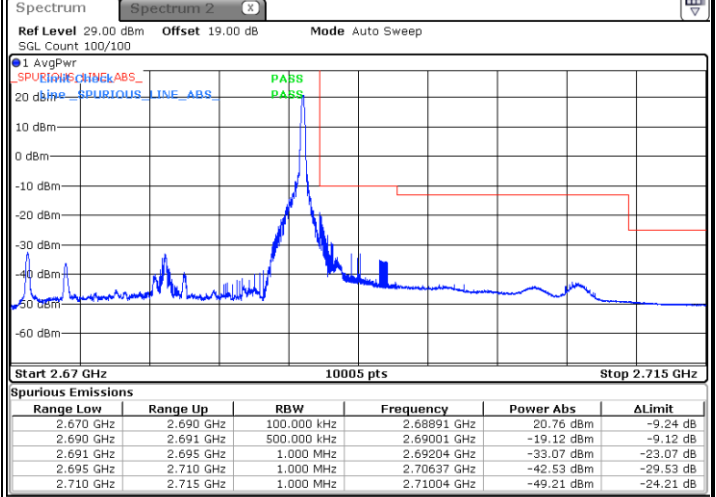
LTE Band 41 / 20MHz / 64QAM

Lowest Band Edge / 1RB



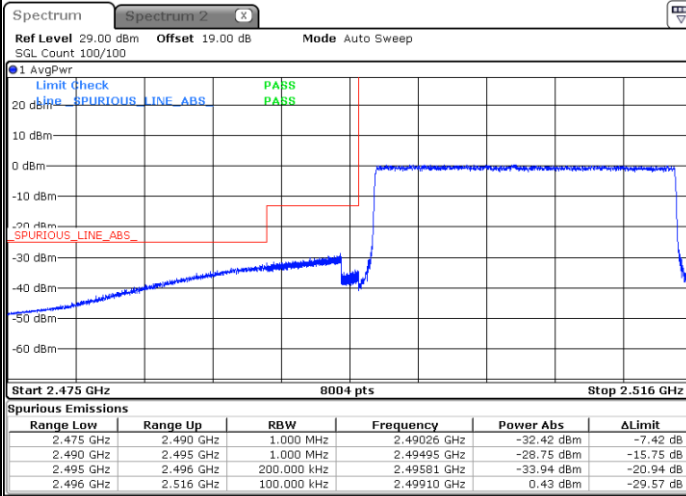
Date: 25.OCT.2023 17:20:12

Highest Band Edge / 1 RB



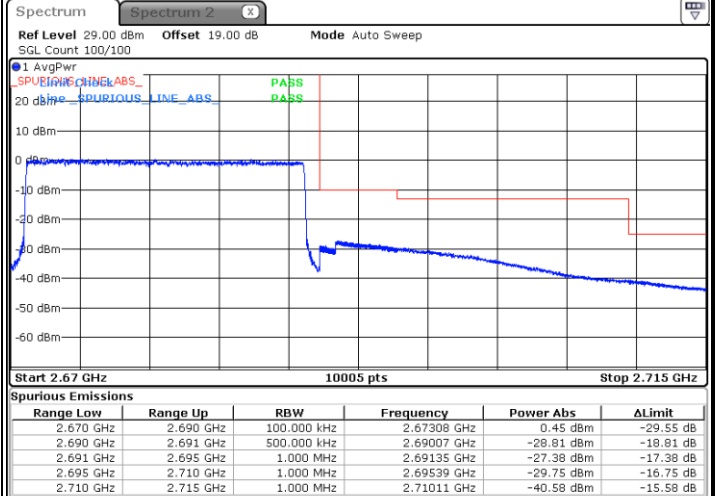
Date: 25.OCT.2023 17:28:01

Lowest Band Edge / Full RB



Date: 25.OCT.2023 17:21:10

Highest Band Edge / Full RB



Date: 25.OCT.2023 17:26:45

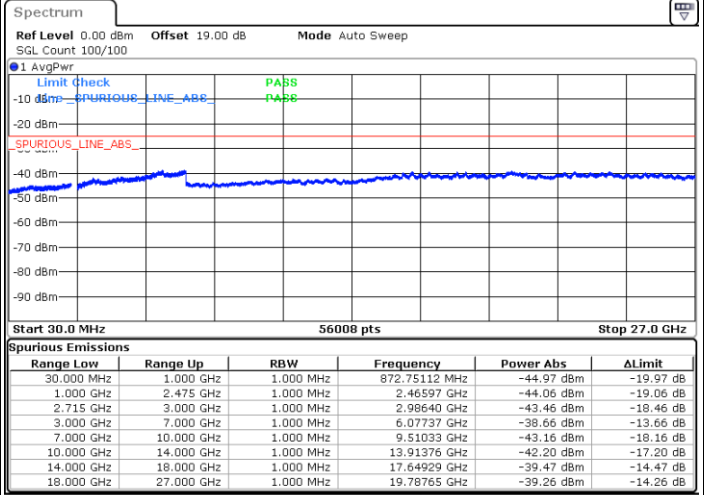
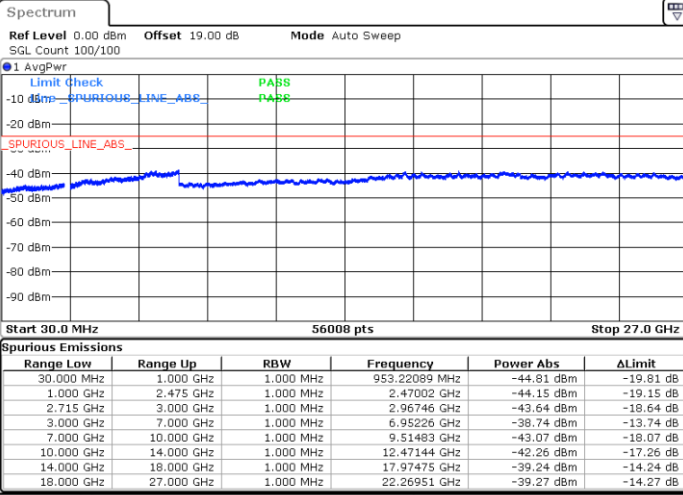


Conducted Spurious Emission

LTE Band 41 / 5MHz

Lowest Channel / QPSK

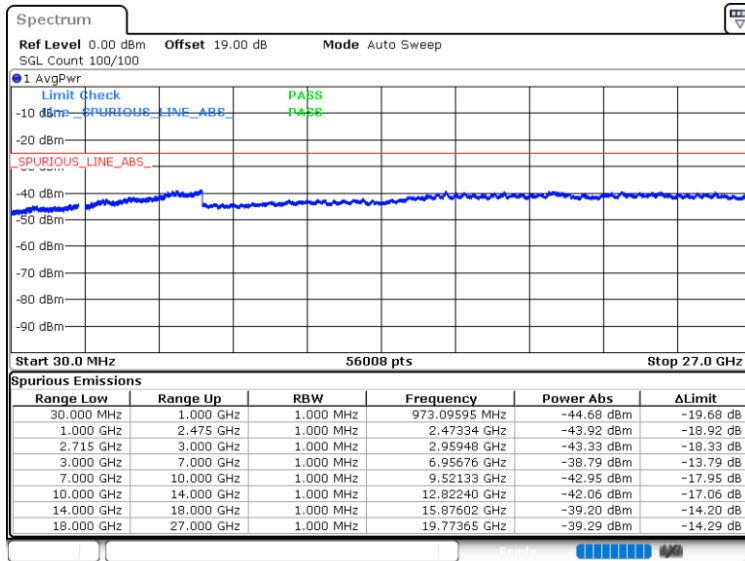
Middle Channel / QPSK



Date: 8.NOV.2023 11:25:39

Date: 8.NOV.2023 11:26:51

Highest Channel / QPSK



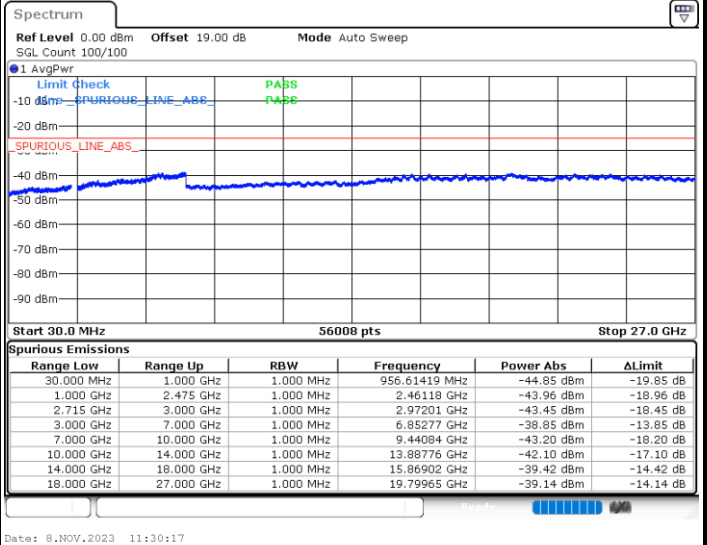
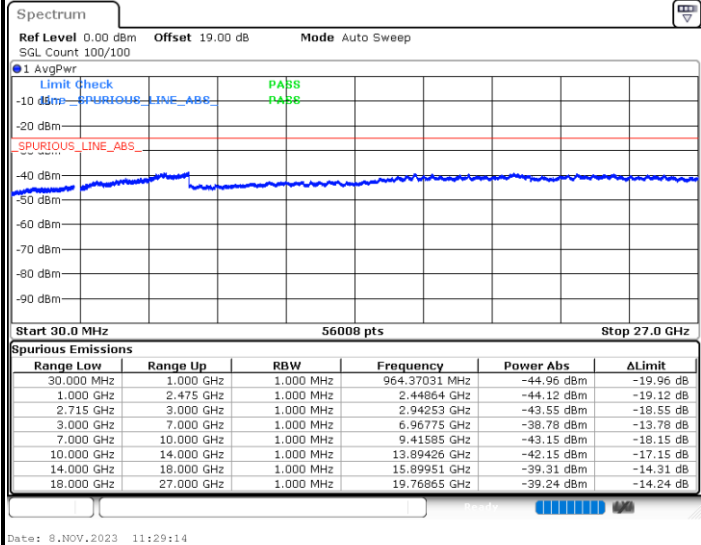
Date: 8.NOV.2023 11:27:55



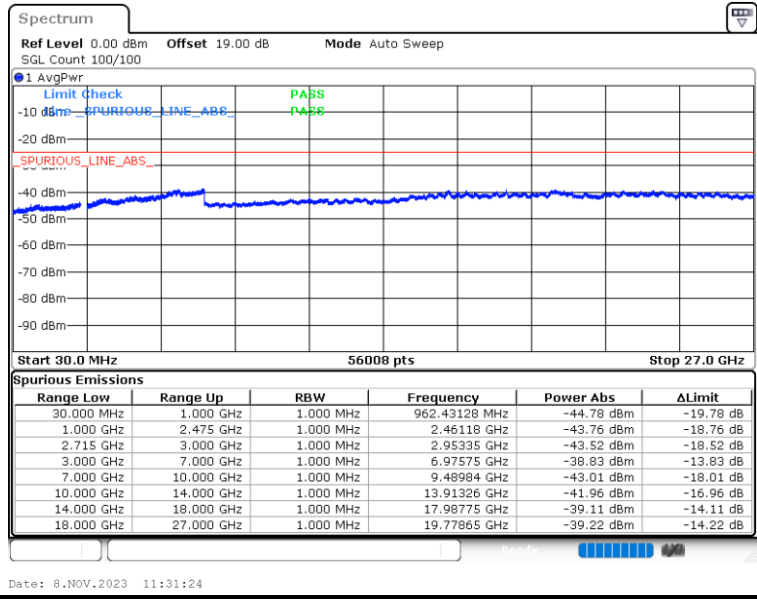
LTE Band 41 / 10MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK

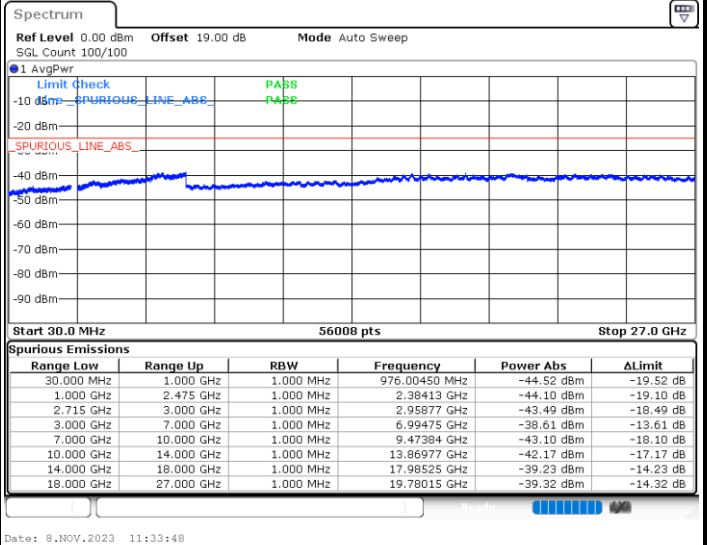
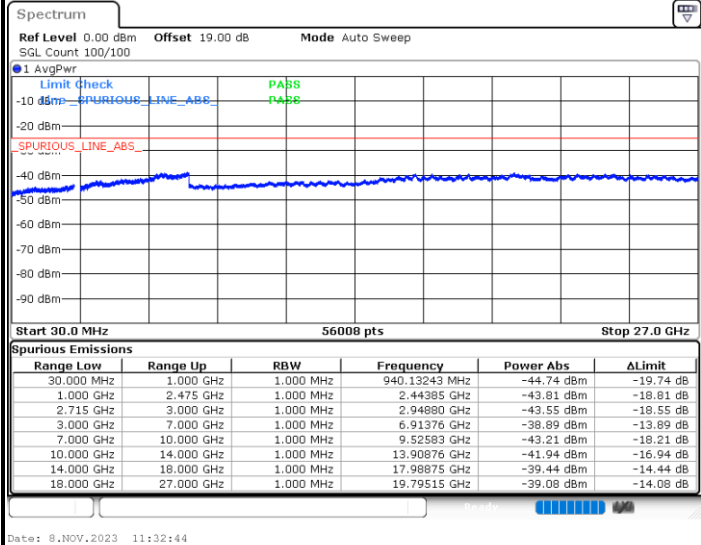




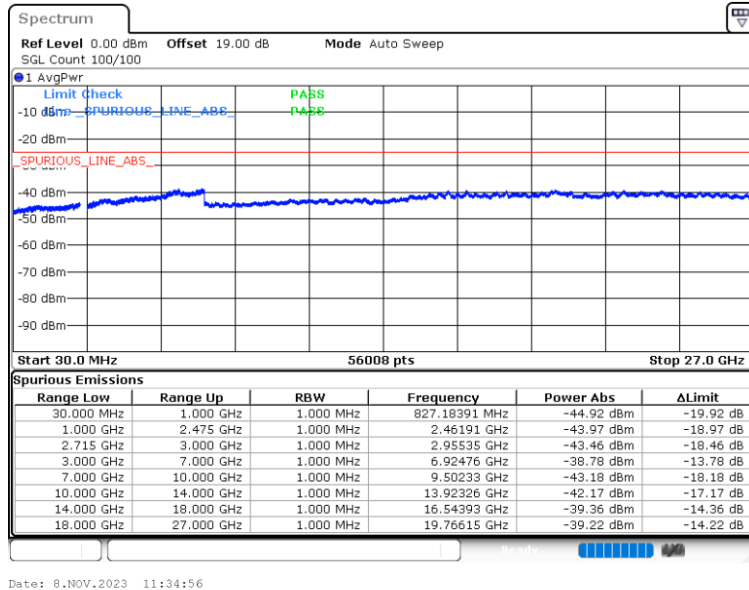
LTE Band 41 / 15MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK

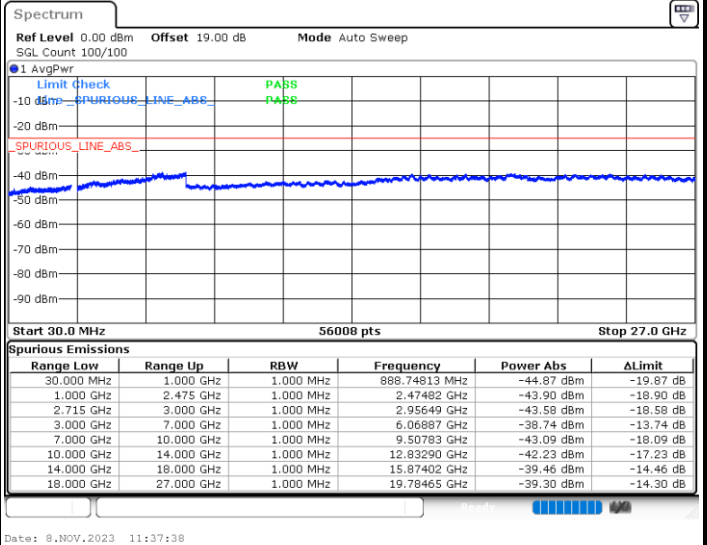
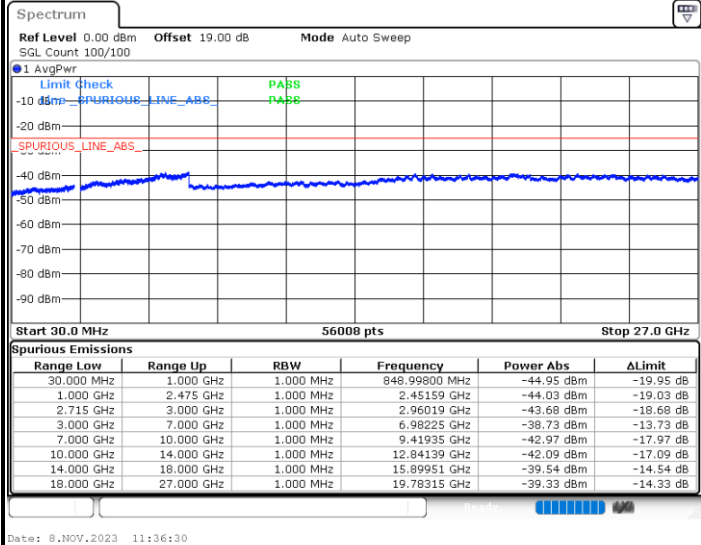




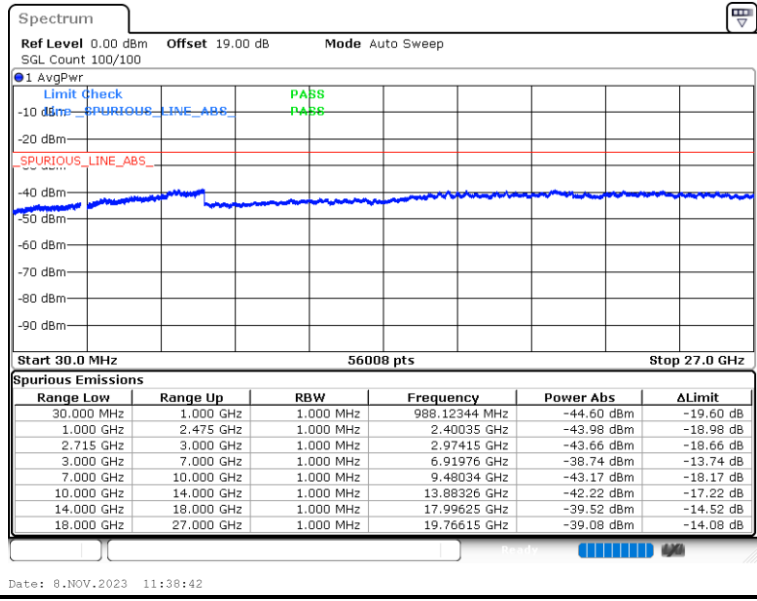
LTE Band 41 / 20MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK





Frequency Stability

Test Conditions		LTE Band 41 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0003	PASS
40	Normal Voltage	0.0011	
30	Normal Voltage	0.0003	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0003	
0	Normal Voltage	0.0004	
-10	Normal Voltage	0.0010	
-20	Normal Voltage	0.0007	
-30	Normal Voltage	0.0000	
20	Maximum Voltage	0.0006	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0014	

Note:

1. Normal Voltage = 3.85 V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage = 4.4 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 71

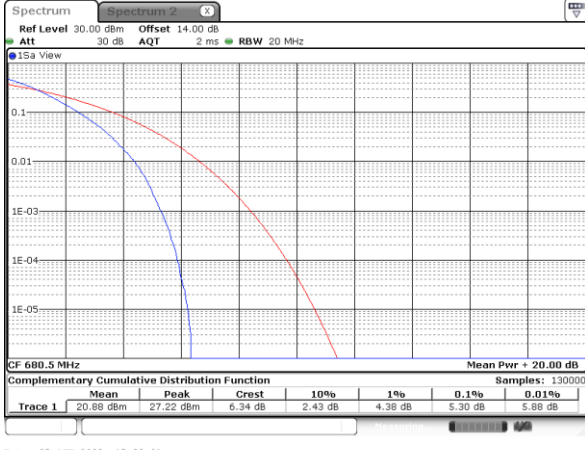
Peak-to-Average Ratio

Mode	LTE Band 71 / 20MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	5.30	6.17	6.32	PASS



LTE Band 71 / 20MHz / QPSK

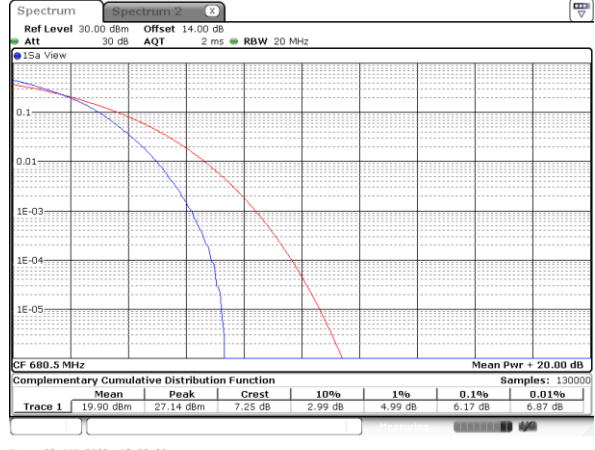
Middle Channel / Full RB



Date: 25.OCT.2023 15:33:01

LTE Band 71 / 20MHz / 16QAM

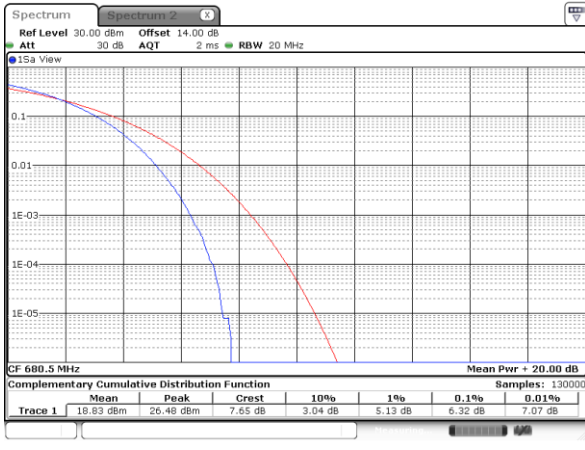
Middle Channel / Full RB



Date: 25.OCT.2023 15:33:30

LTE Band 71 / 20MHz / 64QAM

Middle Channel / Full RB



Date: 25.OCT.2023 15:33:56



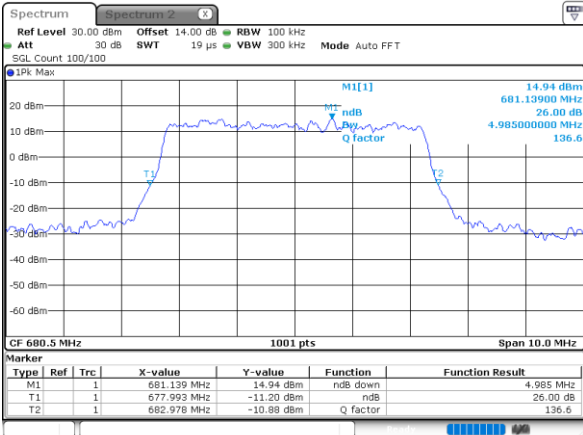
26dB Bandwidth

Mode	LTE Band 71 : 26dB BW(MHz)											
	BW				5MHz		10MHz		15MHz		20MHz	
Mod.					QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH					4.99	5.15	9.79	9.95	14.39	14.63	18.90	18.86



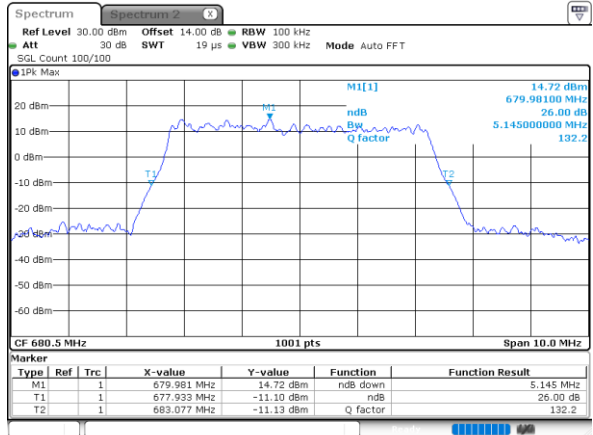
LTE Band 71

Middle Channel / 5MHz / QPSK



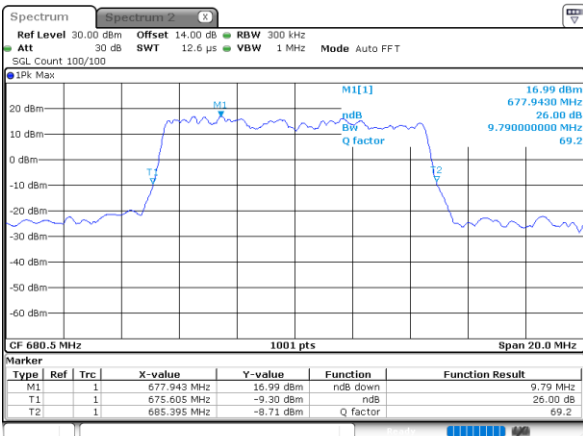
Date: 25.OCT.2023 14:31:37

Middle Channel / 5MHz / 16QAM



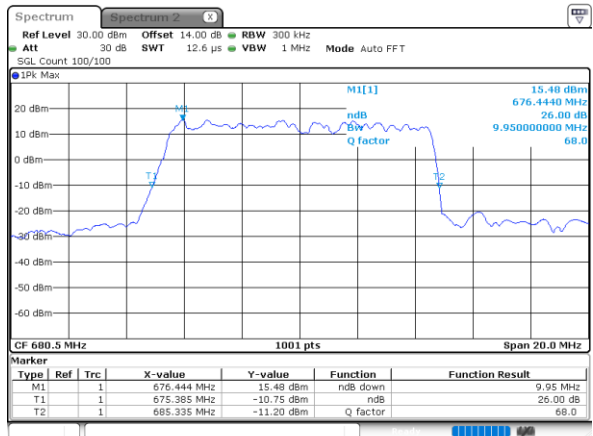
Date: 25.OCT.2023 14:32:23

Middle Channel / 10MHz / QPSK



Date: 25.OCT.2023 15:00:33

Middle Channel / 10MHz / 16QAM

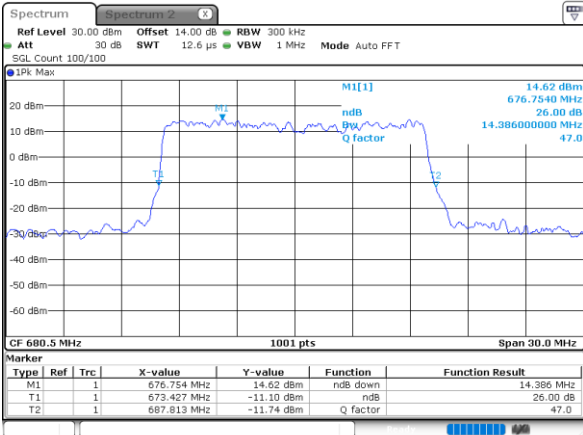


Date: 25.OCT.2023 15:01:07



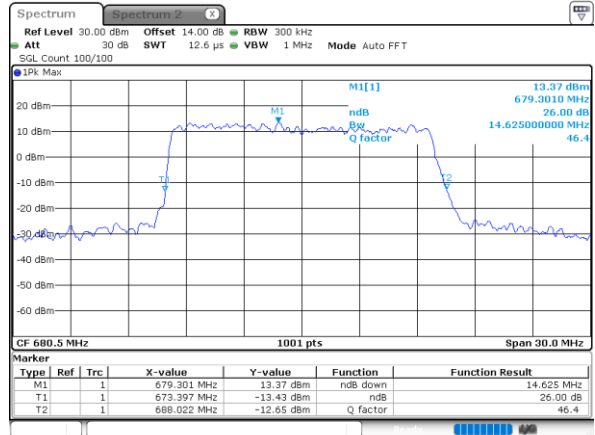
LTE Band 71

Middle Channel / 15MHz / QPSK



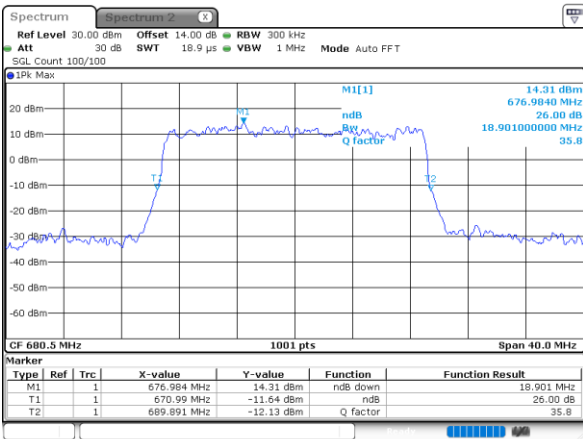
Date: 25.OCT.2023 15:15:40

Middle Channel / 15MHz / 16QAM



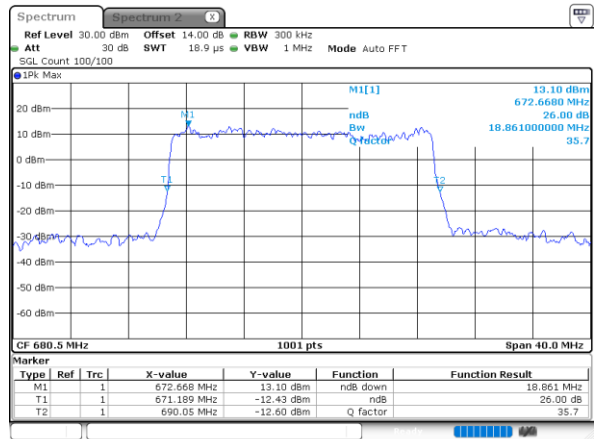
Date: 25.OCT.2023 15:16:27

Middle Channel / 20MHz / QPSK



Date: 25.OCT.2023 15:31:37

Middle Channel / 20MHz / 16QAM



Date: 25.OCT.2023 15:32:19



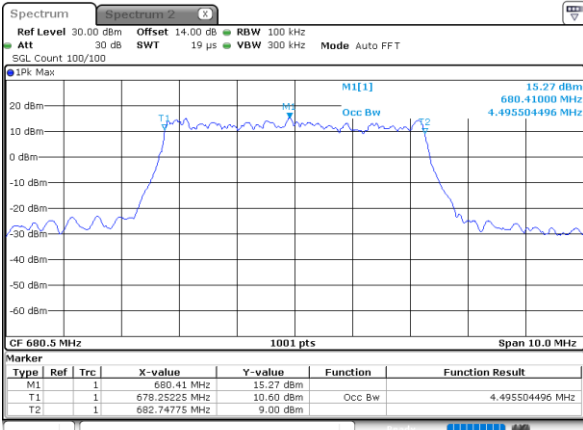
Occupied Bandwidth

Mode	LTE Band 71 : 99%OBW(MHz)											
	BW				5MHz		10MHz		15MHz		20MHz	
Mod.					QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH					4.50	4.48	9.07	9.05	13.49	13.46	17.90	17.90



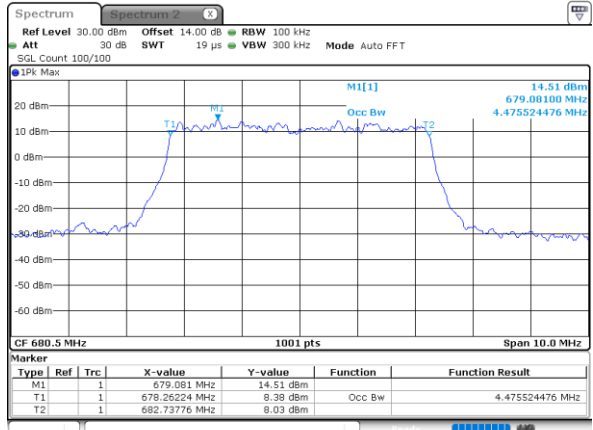
LTE Band 71

Middle Channel / 5MHz / QPSK



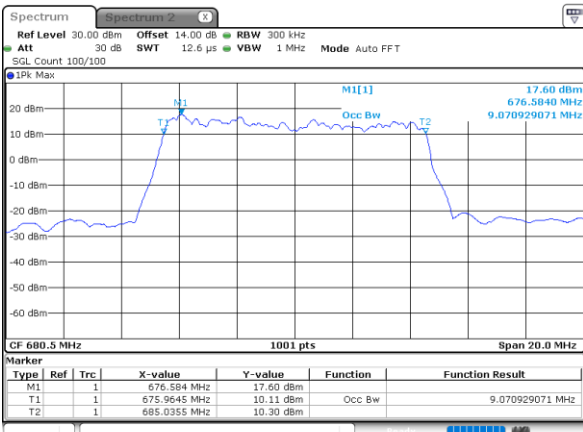
Date: 25.OCT.2023 14:31:17

Middle Channel / 5MHz / 16QAM



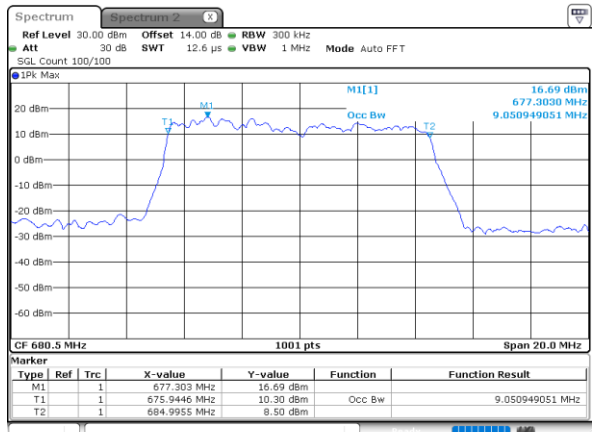
Date: 25.OCT.2023 14:32:05

Middle Channel / 10MHz / QPSK



Date: 25.OCT.2023 15:00:04

Middle Channel / 10MHz / 16QAM



Date: 25.OCT.2023 15:00:57