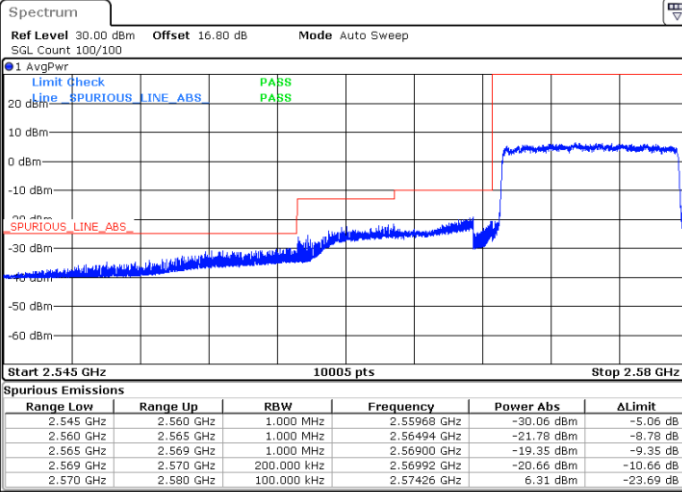




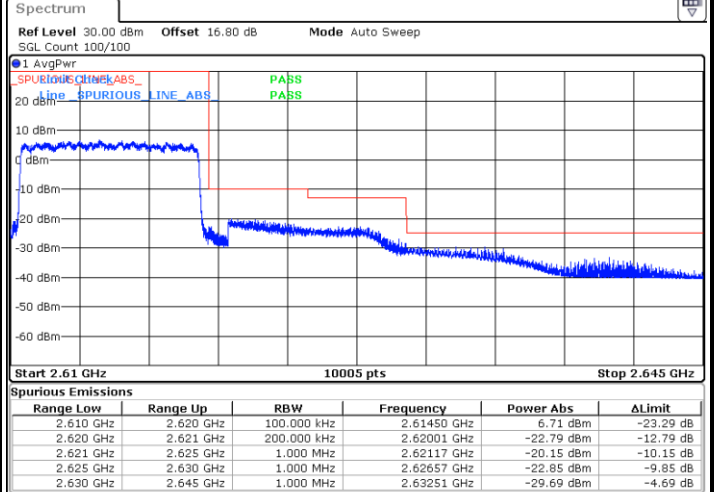
LTE Band 38 / 10MHz / QPSK

Lowest Band Edge / Full RB



Date: 26.AUG.2023 02:08:05

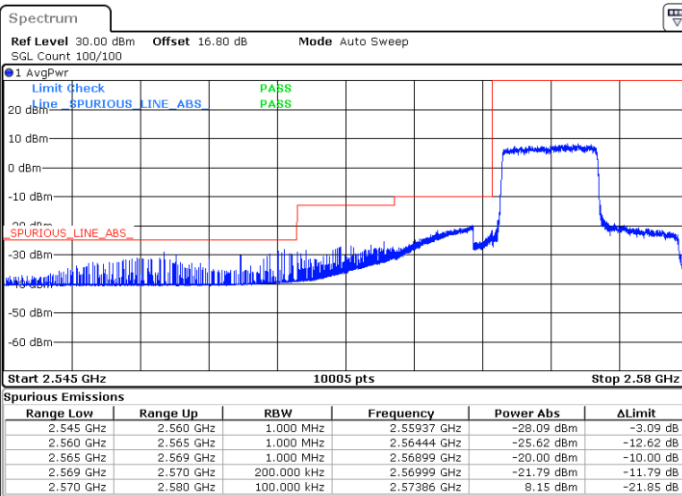
Highest Band Edge / Full RB



Date: 26.AUG.2023 02:11:39

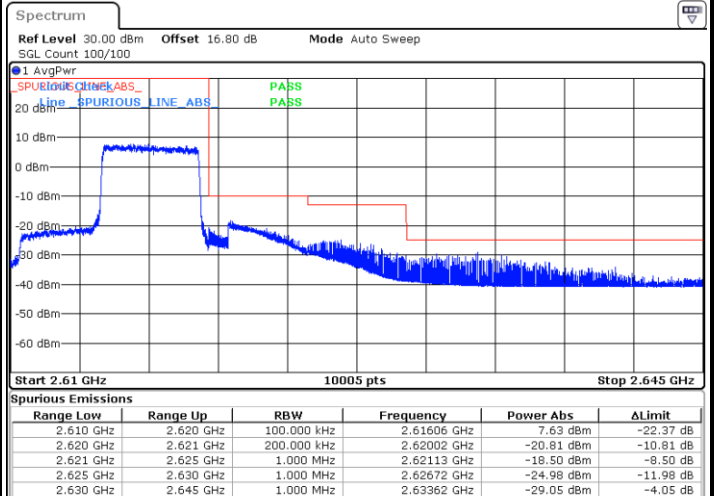
LTE Band 38 / 10MHz / 16QAM

Lowest Band Edge / 27 RB



Date: 25.AUG.2023 20:58:39

Highest Band Edge / 27 RB

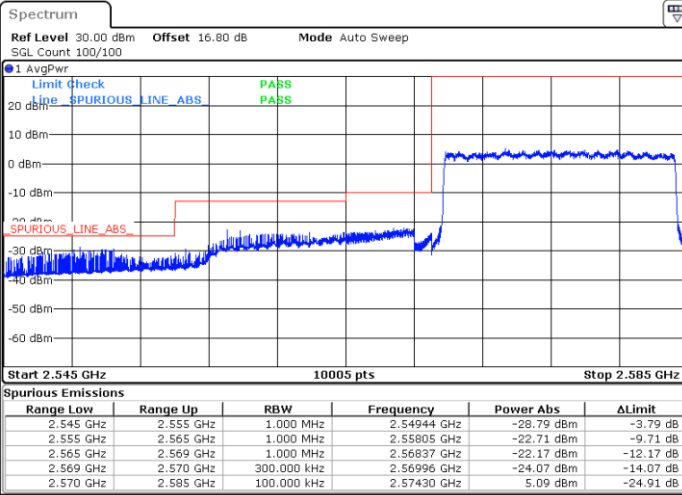


Date: 26.AUG.2023 01:58:14



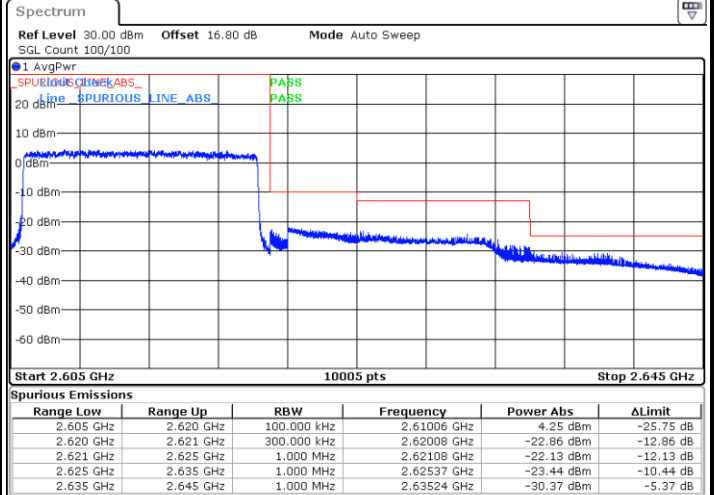
LTE Band 38 / 15MHz / QPSK

Lowest Band Edge / Full RB



Date: 25.AUG.2023 21:01:23

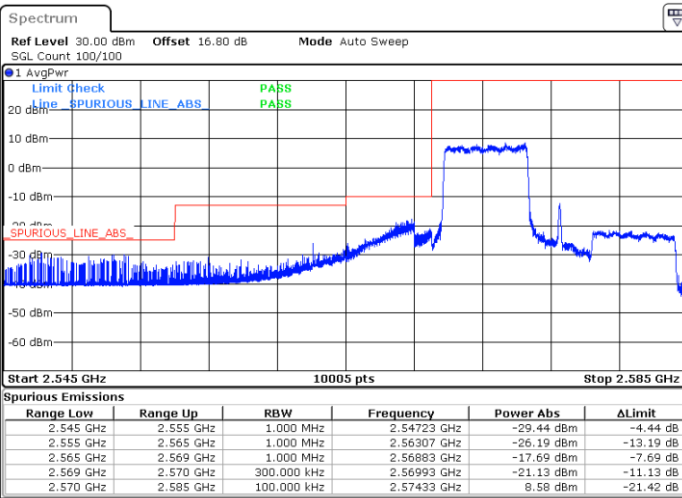
Highest Band Edge / Full RB



Date: 26.AUG.2023 02:21:10

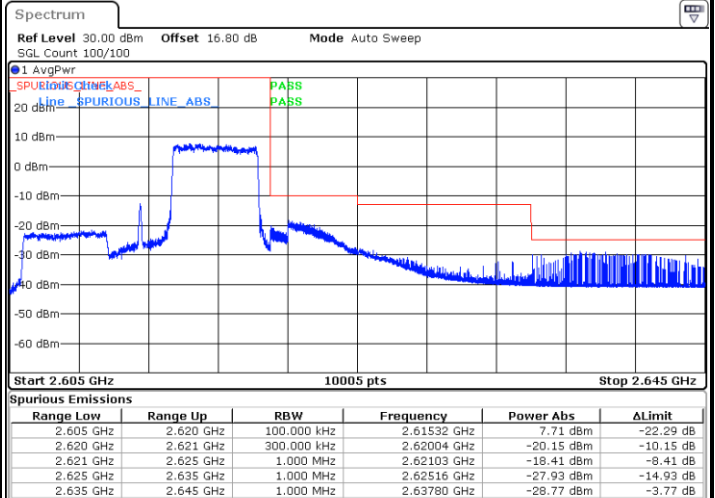
LTE Band 38 / 15MHz / 16QAM

Lowest Band Edge / 27 RB



Date: 25.AUG.2023 21:02:18

Highest Band Edge / 27 RB

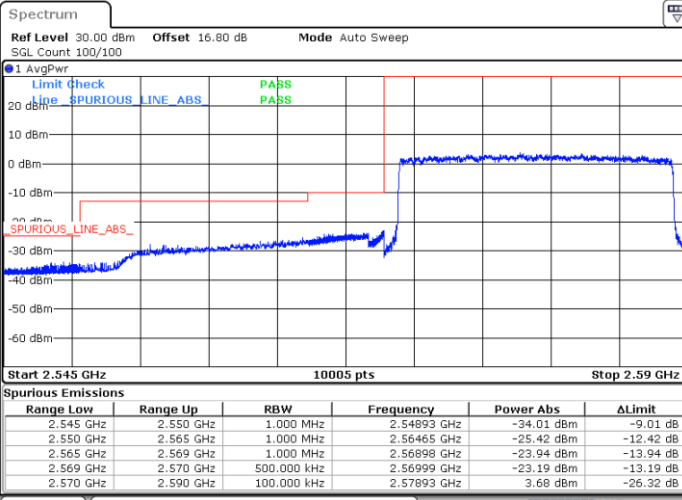


Date: 26.AUG.2023 01:50:08



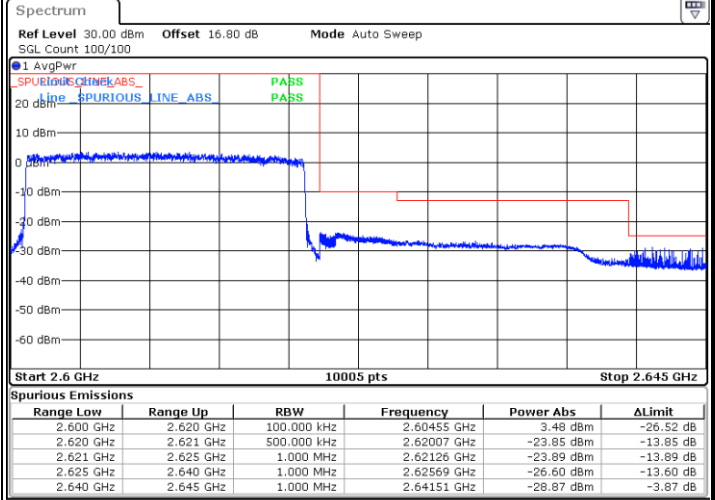
LTE Band 38 / 20MHz / QPSK

Lowest Band Edge / Full RB



Date: 25.AUG.2023 21:05:02

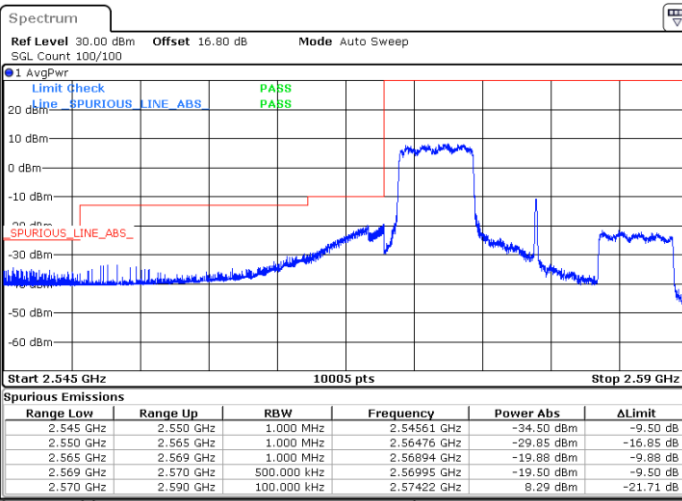
Highest Band Edge / Full RB



Date: 26.AUG.2023 02:26:00

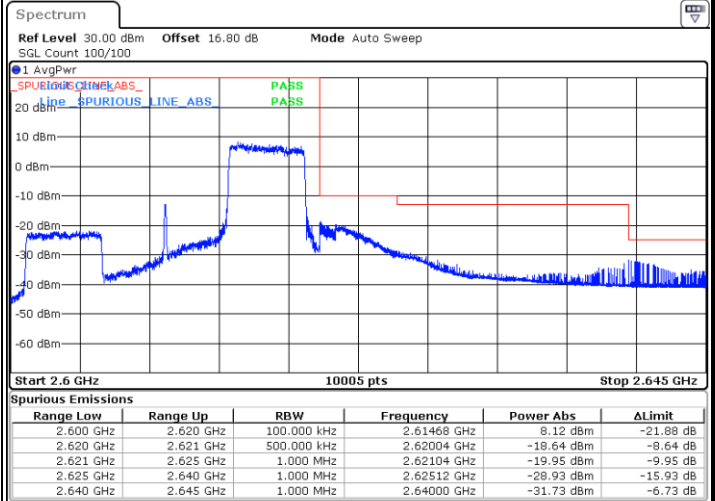
LTE Band 38 / 20MHz / 16QAM

Lowest Band Edge / 27 RB



Date: 25.AUG.2023 21:05:57

Highest Band Edge / 27 RB



Date: 26.AUG.2023 01:52:20

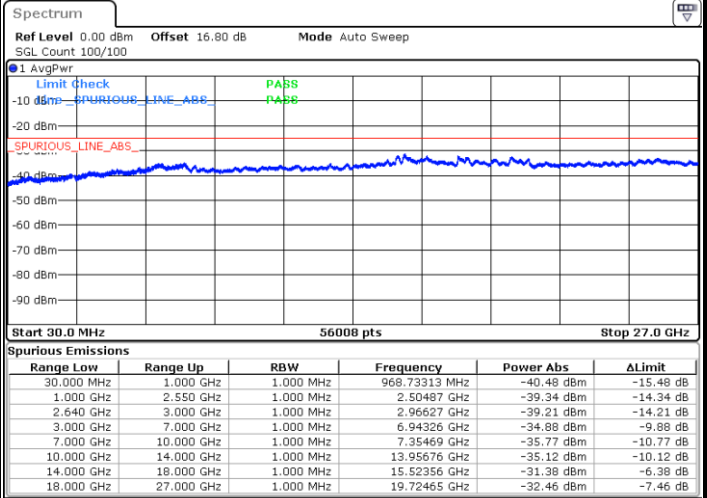
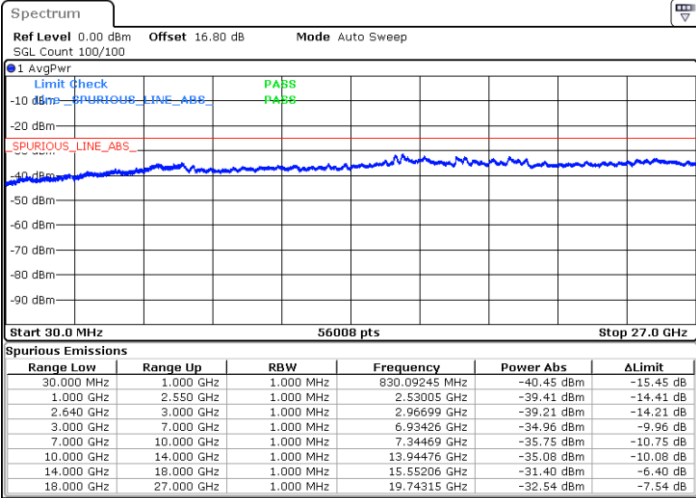


Conducted Spurious Emission

LTE Band 38 / 5MHz

Lowest Channel / QPSK

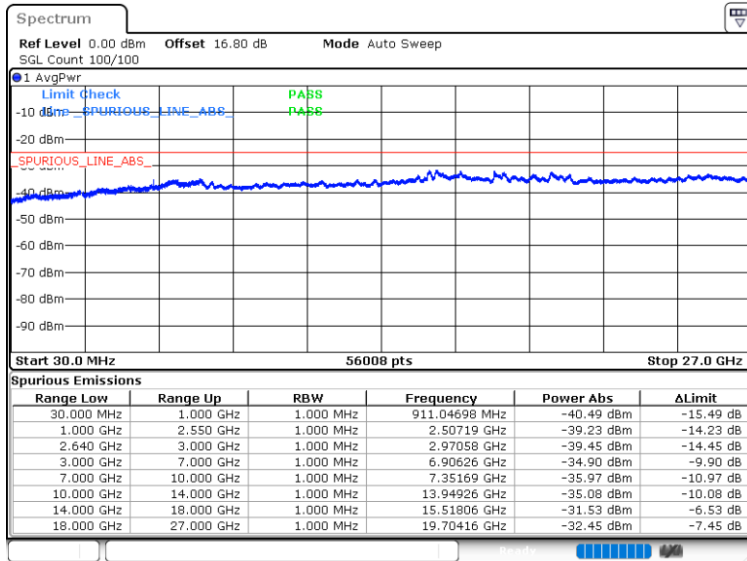
Middle Channel / QPSK



Date: 25.AUG.2023 21:08:51

Date: 25.AUG.2023 21:09:56

Highest Channel / QPSK



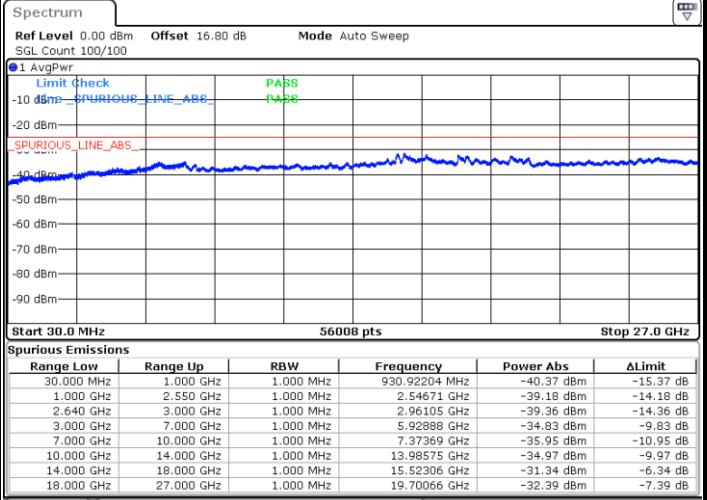
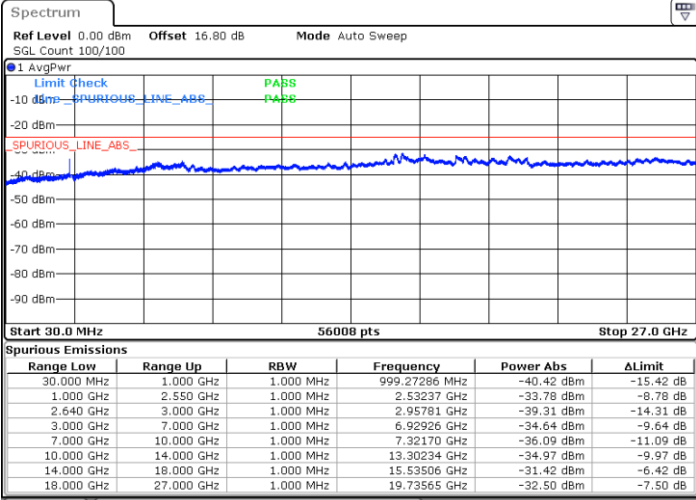
Date: 25.AUG.2023 21:11:00



LTE Band 38 / 10MHz

Lowest Channel / QPSK

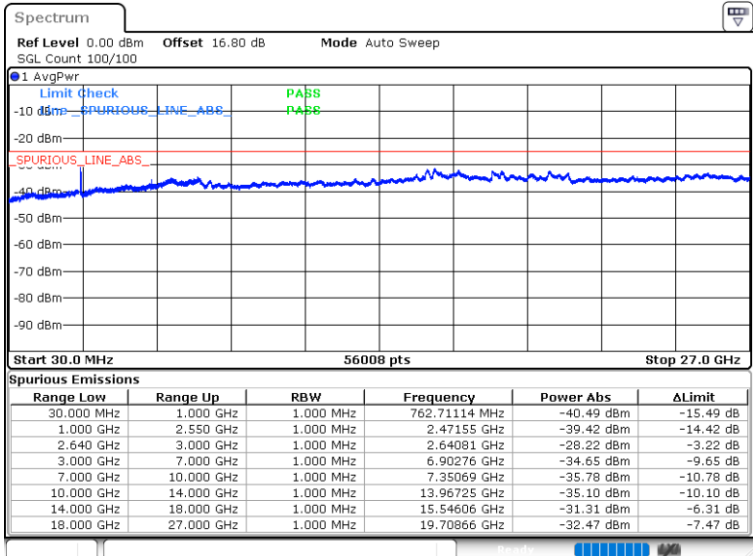
Middle Channel / QPSK



Date: 26.AUG.2023 02:13:11

Date: 25.AUG.2023 21:13:10

Highest Channel / QPSK



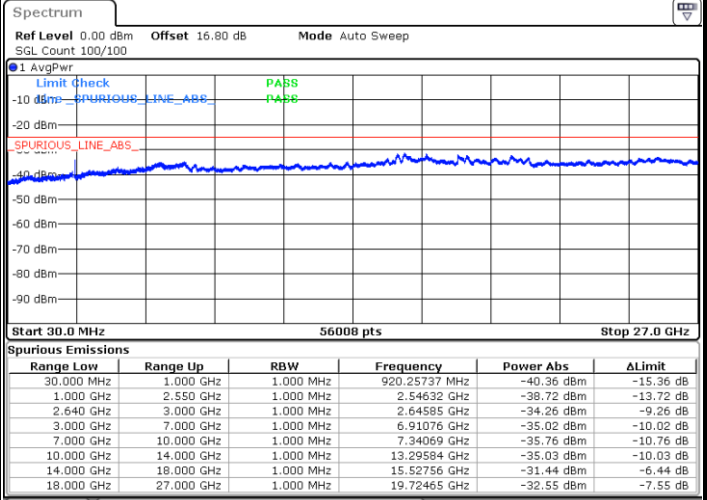
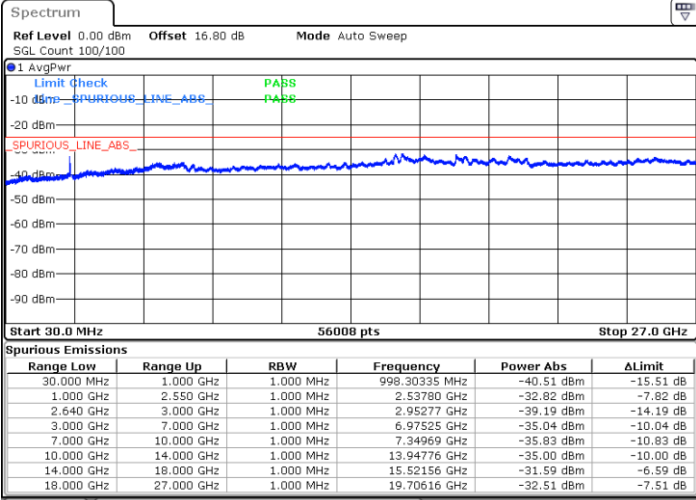
Date: 25.AUG.2023 21:14:15



LTE Band 38 / 15MHz

Lowest Channel / QPSK

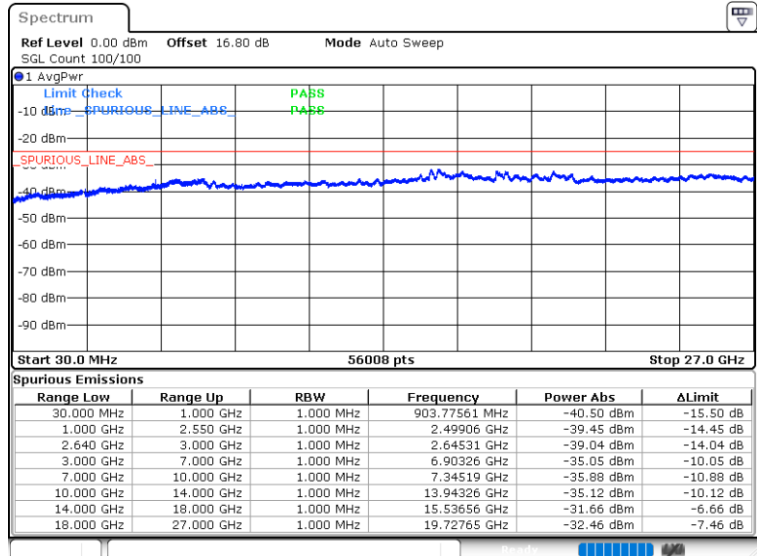
Middle Channel / QPSK



Date: 26.AUG.2023 02:23:24

Date: 25.AUG.2023 21:16:24

Highest Channel / QPSK



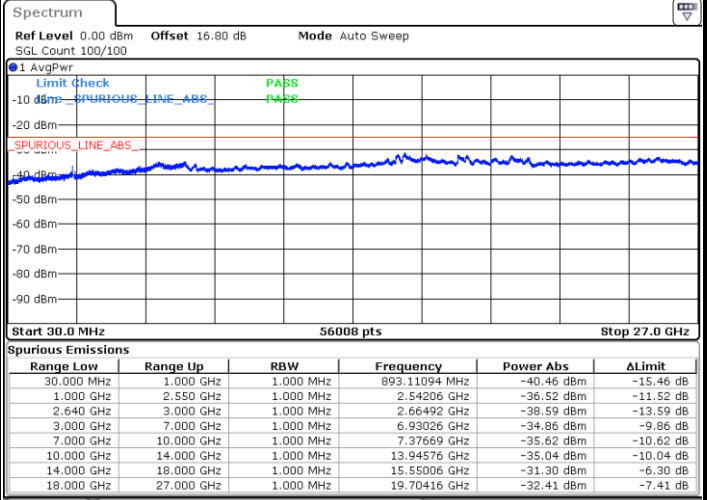
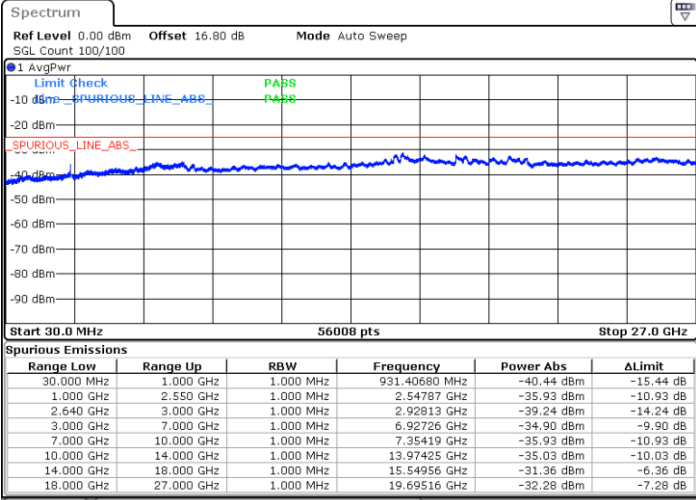
Date: 26.AUG.2023 02:24:41



LTE Band 38 / 20MHz

Lowest Channel / QPSK

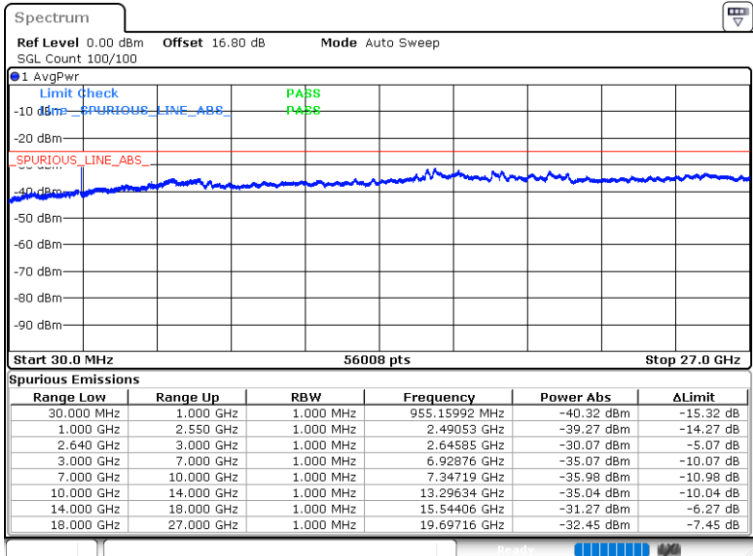
Middle Channel / QPSK



Date: 25.AUG.2023 21:18:34

Date: 25.AUG.2023 21:19:38

Highest Channel / QPSK



Date: 25.AUG.2023 21:20:43



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	0.0042	PASS
40	Normal Voltage	0.0037	
30	Normal Voltage	0.0067	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0038	
0	Normal Voltage	0.0024	
-10	Normal Voltage	0.0006	
-20	Normal Voltage	0.0072	
-30	Normal Voltage	0.0000	
20	Maximum Voltage	0.0014	
20	Normal Voltage	0.0042	
20	Battery End Point	0.0037	

Note:

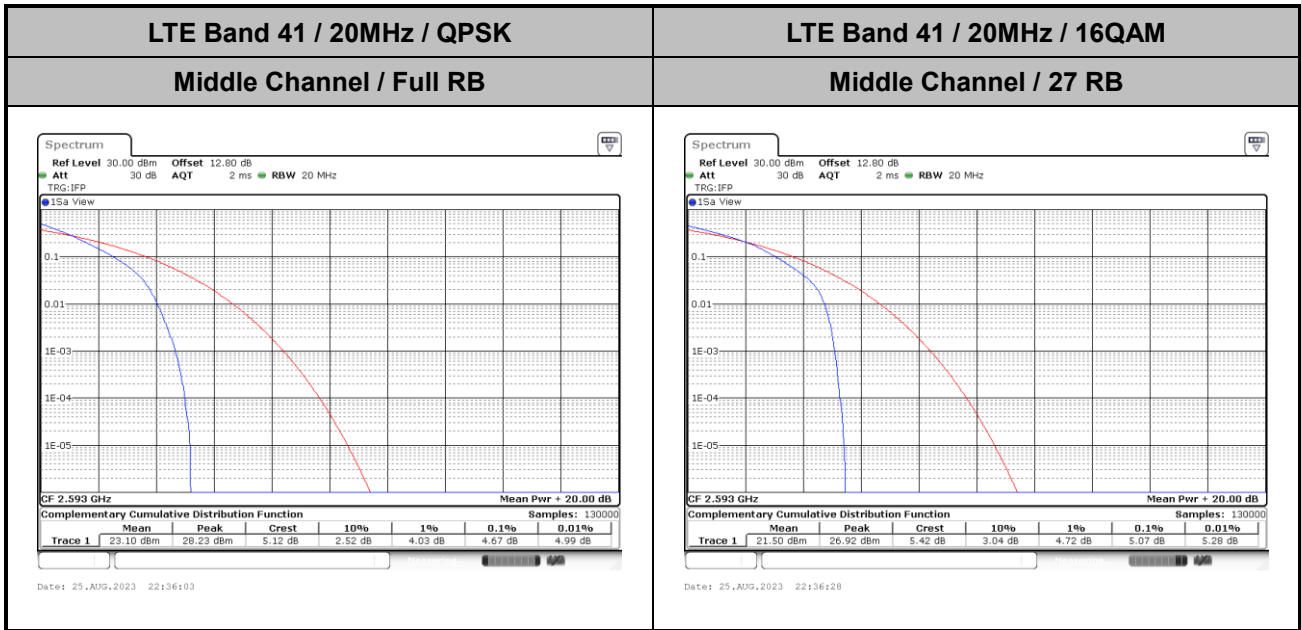
- 1. Normal Voltage = 3.8 V. ; Battery End Point (BEP) = 3.3 V. ; Maximum Voltage = 4.2 V.
- 2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 41

Peak-to-Average Ratio

Mode	LTE Band 41 / 20MHz		
Mod.	QPSK	16QAM	Limit: 13dB
RB Size	Full RB	27 RB	Result
Middle CH	4.67	5.07	PASS





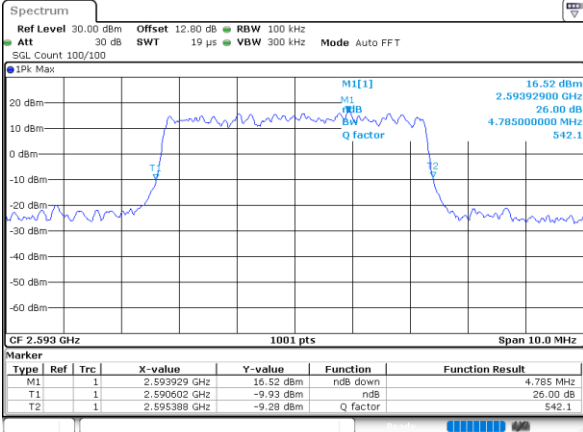
26dB Bandwidth

Mode	LTE Band 41 : 26dB BW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	4.79	4.93	9.65	5.42	14.09	5.72	18.70	5.32



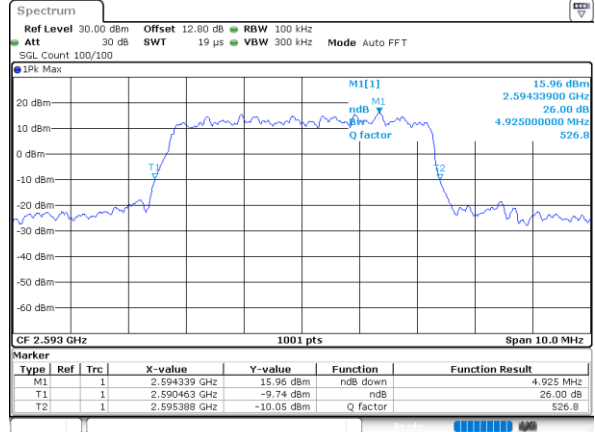
LTE Band 41

Middle Channel / 5MHz / QPSK



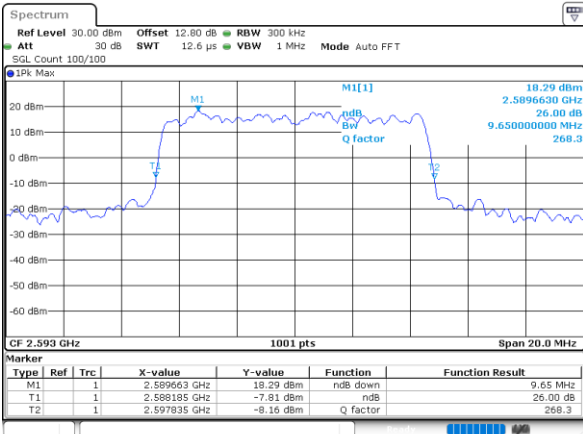
Date: 25_AUG.2023 22:16:28

Middle Channel / 5MHz / 16QAM



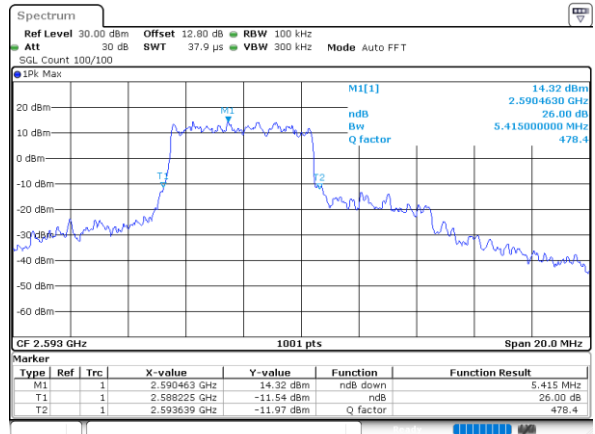
Date: 25_AUG.2023 22:17:15

Middle Channel / 10MHz / QPSK



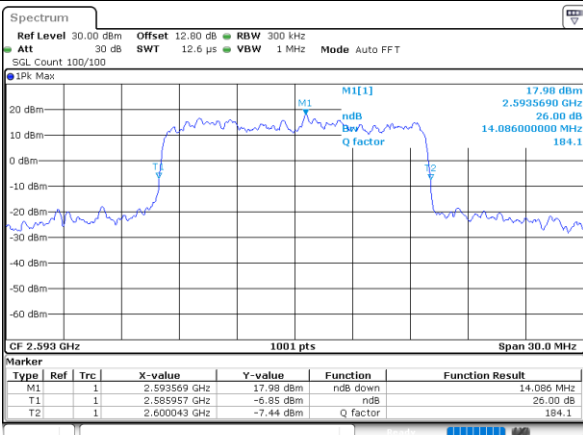
Date: 25_AUG.2023 22:25:08

Middle Channel / 10MHz / 16QAM



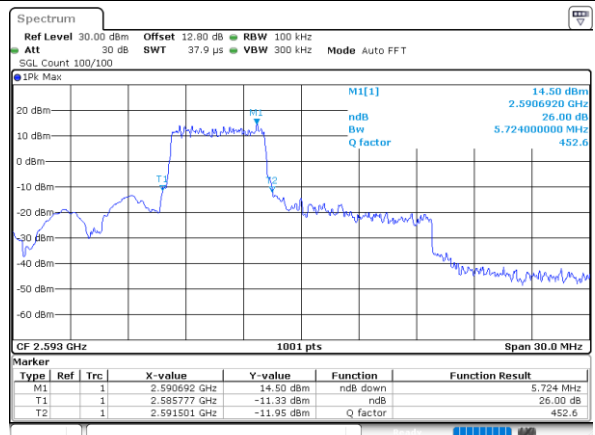
Date: 5_SEP.2023 22:18:04

Middle Channel / 15MHz / QPSK



Date: 25_AUG.2023 22:30:24

Middle Channel / 15MHz / 16QAM

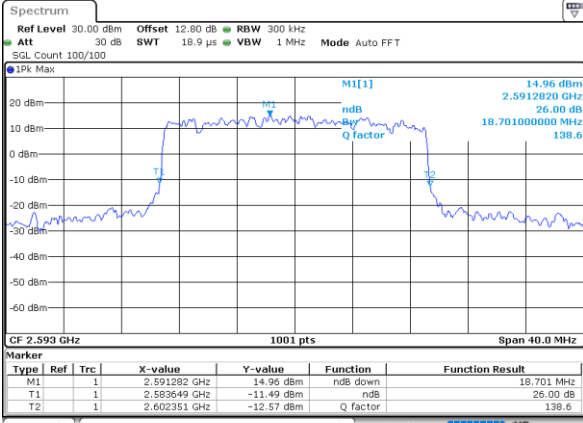


Date: 5_SEP.2023 22:18:52



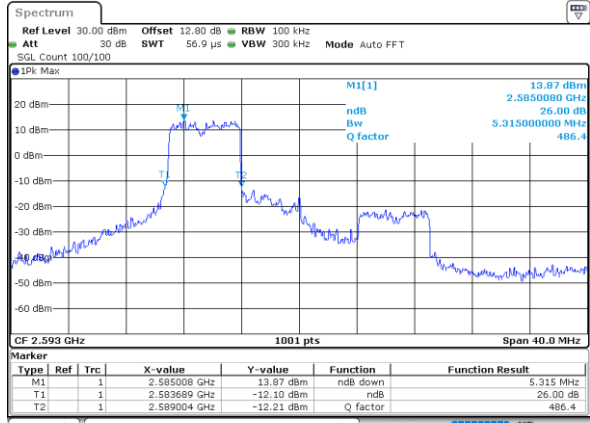
LTE Band 41

Middle Channel / 20MHz / QPSK



Date: 25_AUG.2023 22:35:38

Middle Channel / 20MHz / 16QAM



Date: 5_SEP.2023 22:19:40



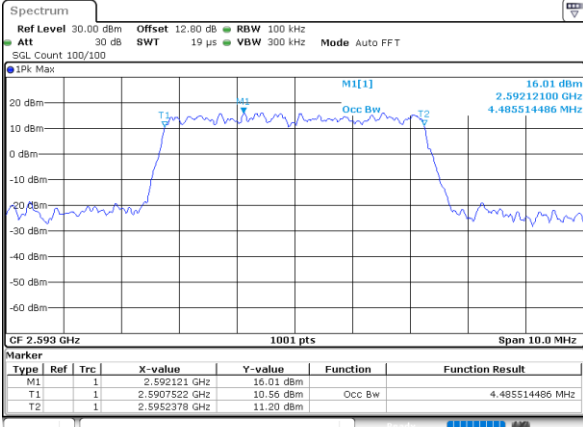
Occupied Bandwidth

Mode	LTE Band 41 : 99%OBW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	4.49	4.48	8.97	4.88	13.49	4.86	17.78	4.88



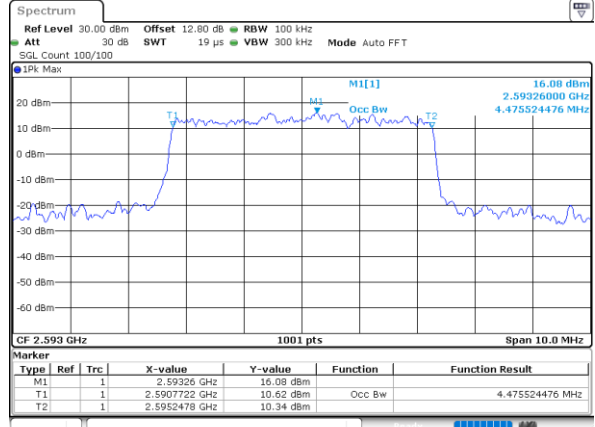
LTE Band 41

Middle Channel / 5MHz / QPSK



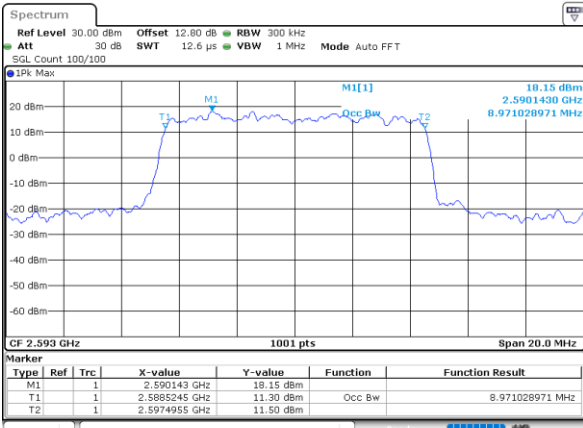
Date: 25_AUG.2023 22:16:04

Middle Channel / 5MHz / 16QAM



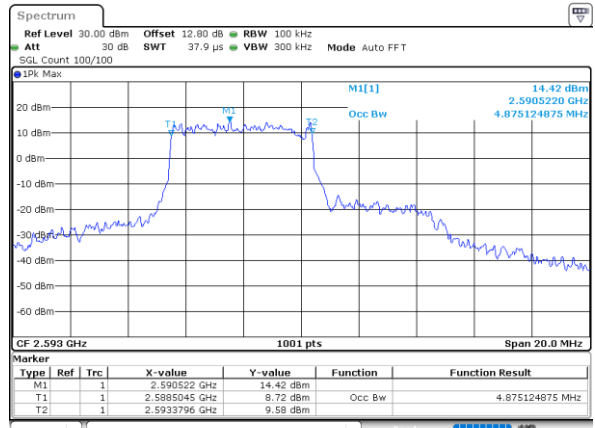
Date: 25_AUG.2023 22:16:52

Middle Channel / 10MHz / QPSK



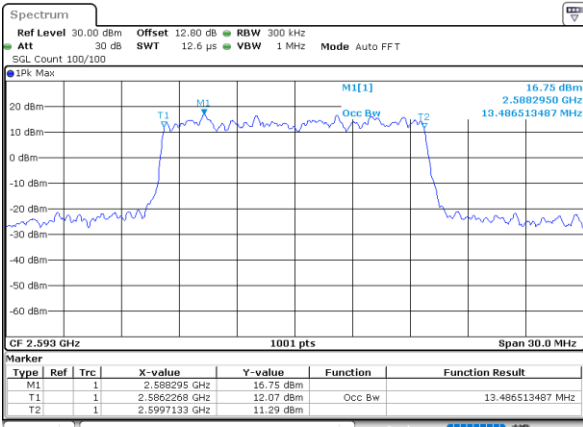
Date: 25_AUG.2023 22:24:45

Middle Channel / 10MHz / 16QAM



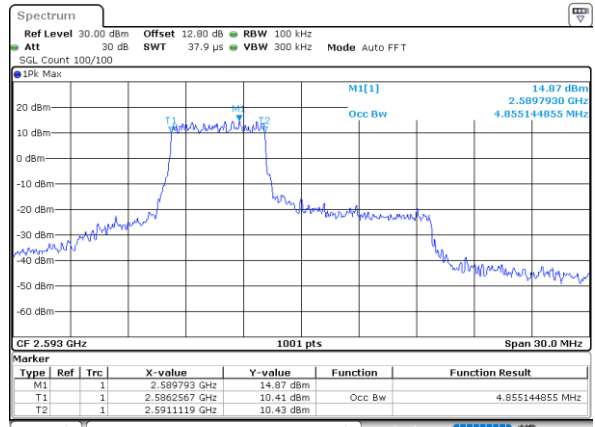
Date: 5_SEP.2023 22:17:41

Middle Channel / 15MHz / QPSK



Date: 25_AUG.2023 22:30:00

Middle Channel / 15MHz / 16QAM

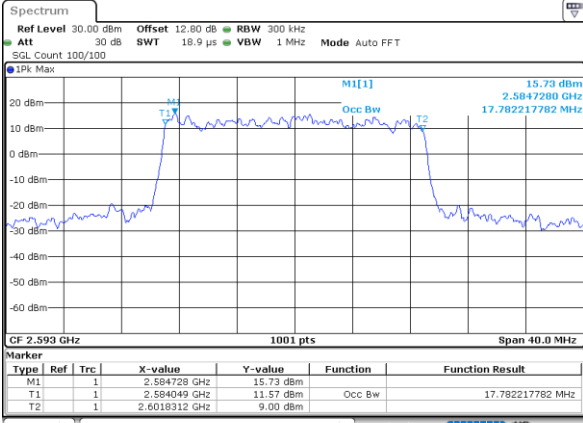


Date: 5_SEP.2023 22:18:28



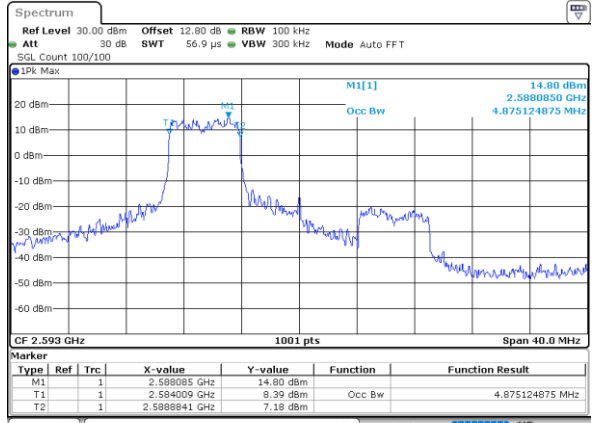
LTE Band 41

Middle Channel / 20MHz / QPSK



Date: 25.AUG.2023 22:35:15

Middle Channel / 20MHz / 16QAM



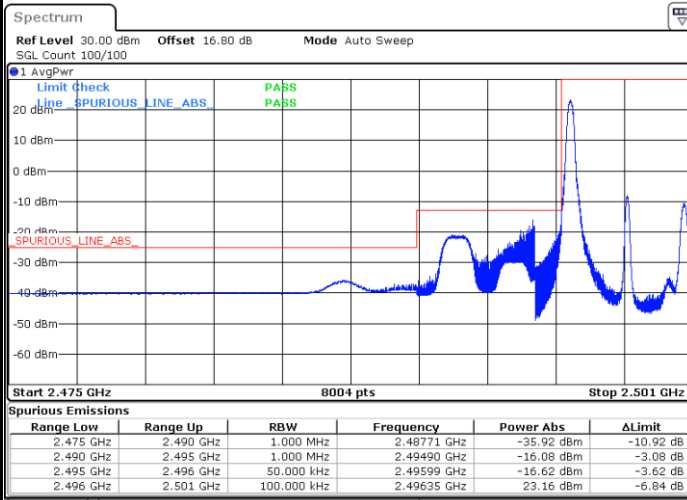
Date: 5.SEP.2023 22:19:16



Conducted Band Edge

LTE Band 41 / 5MHz / QPSK

Lowest Band Edge / 1 RB



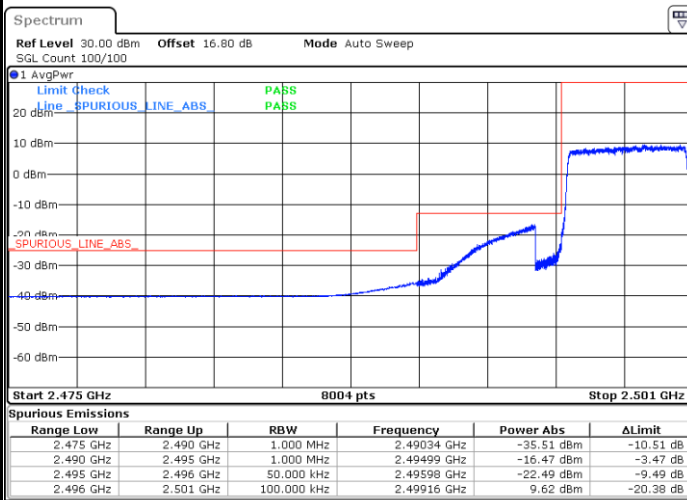
Date: 25.AUG.2023 22:10:43

Highest Band Edge / 1 RB



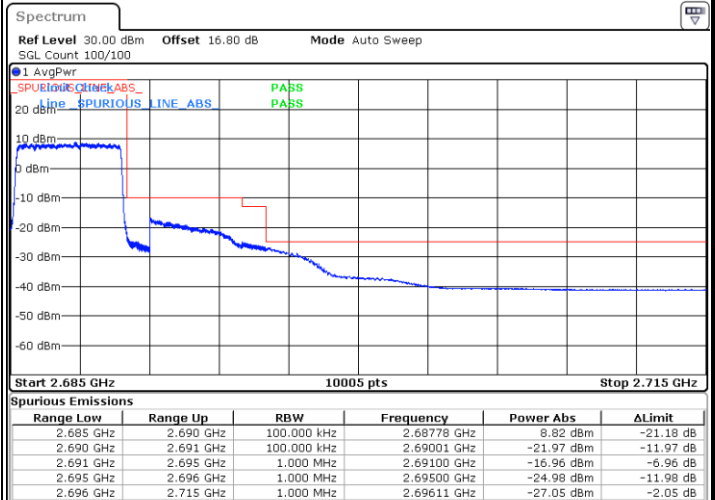
Date: 25.AUG.2023 22:20:21

Lowest Band Edge / Full RB



Date: 25.AUG.2023 22:13:39

Highest Band Edge / Full RB

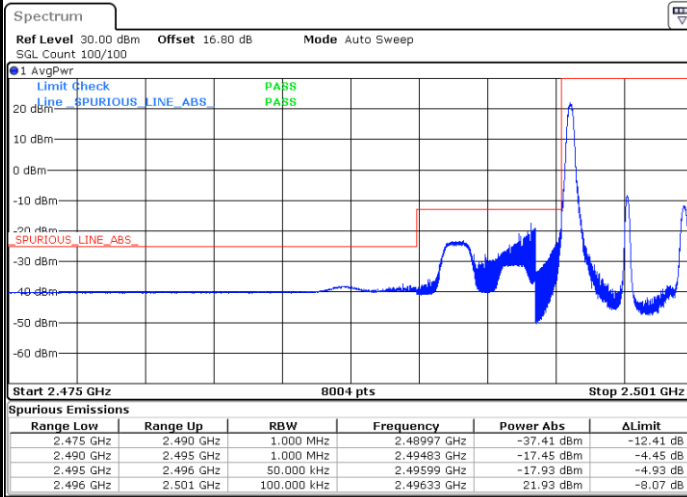


Date: 25.AUG.2023 22:18:16



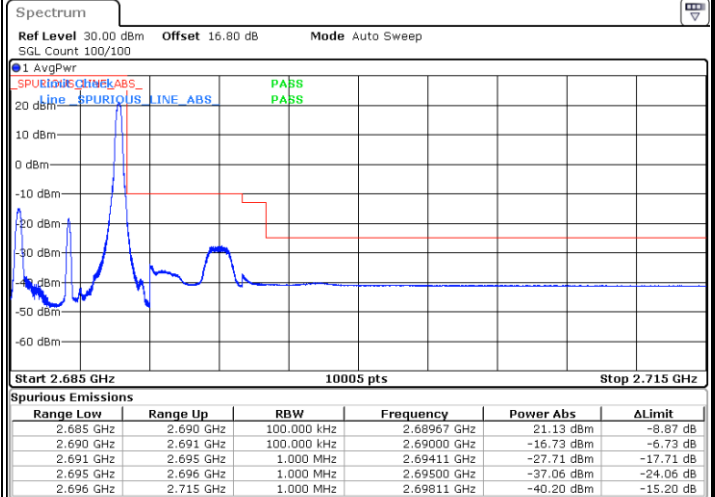
LTE Band 41 / 5MHz / 16QAM

Lowest Band Edge / 1RB



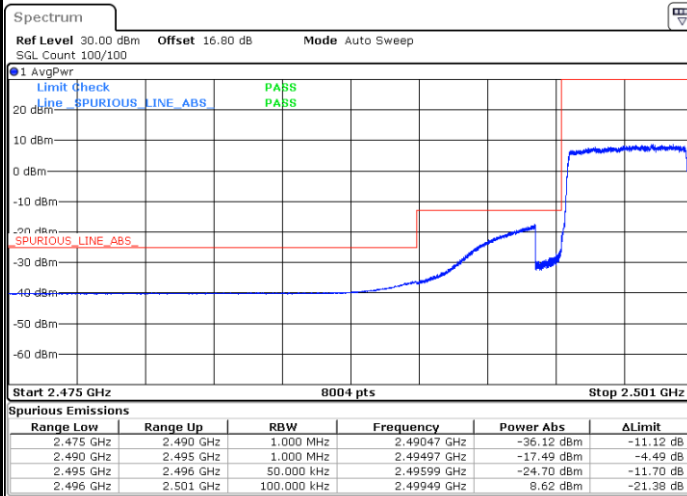
Date: 25.AUG.2023 22:11:39

Highest Band Edge / 1 RB



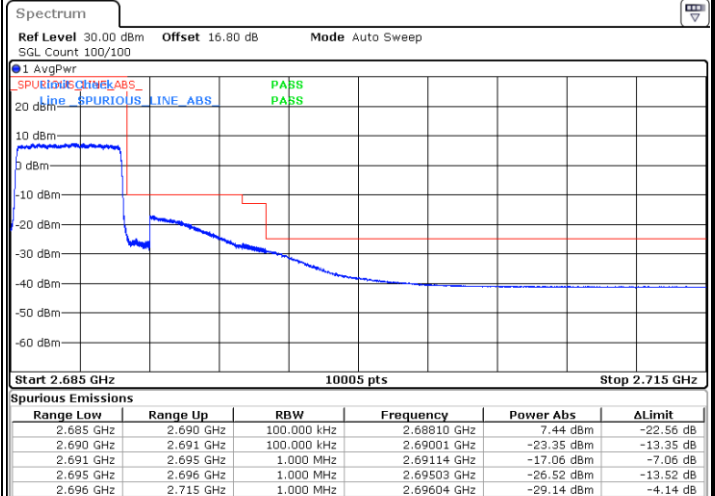
Date: 25.AUG.2023 22:21:24

Lowest Band Edge / Full RB



Date: 25.AUG.2023 22:14:35

Highest Band Edge / Full RB

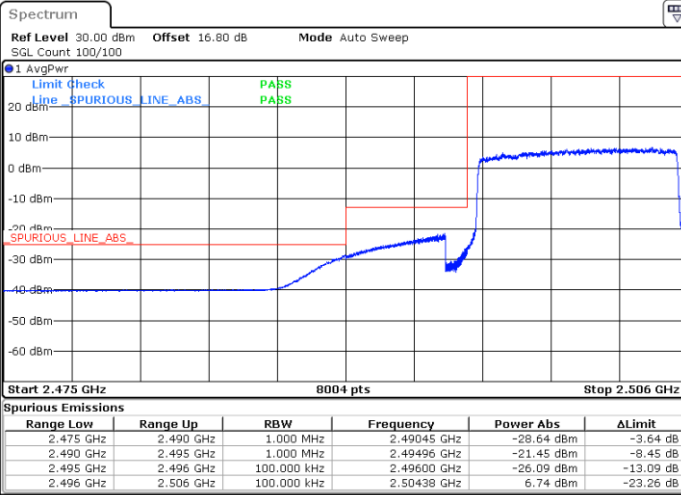


Date: 25.AUG.2023 22:19:18



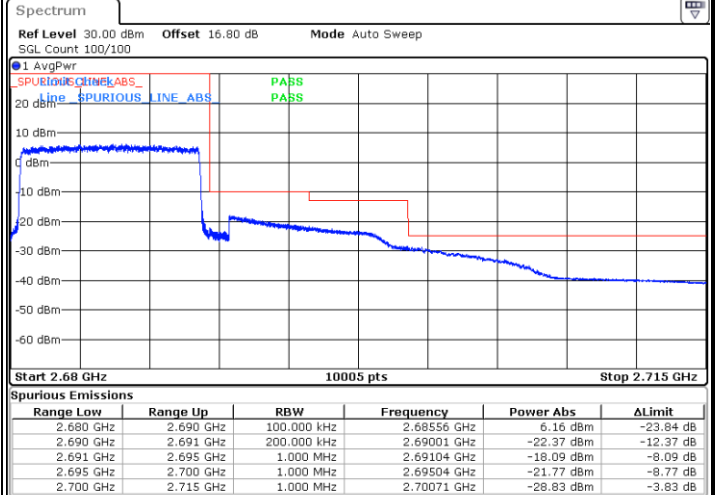
LTE Band 41 / 10MHz / QPSK

Lowest Band Edge / Full RB



Date: 25.AUG.2023 22:23:24

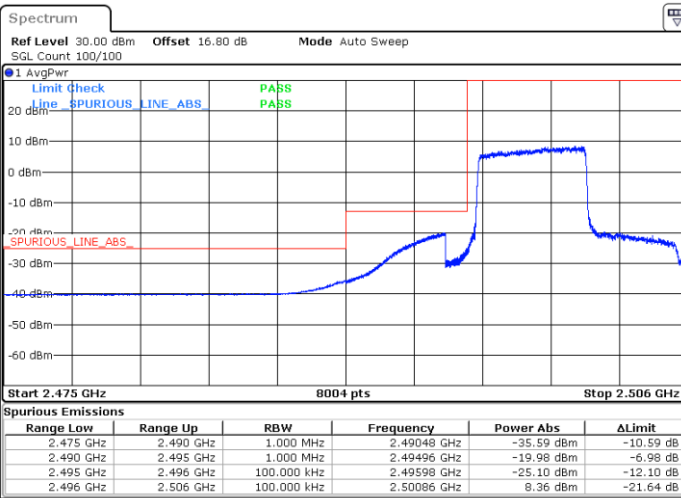
Highest Band Edge / Full RB



Date: 25.AUG.2023 22:26:49

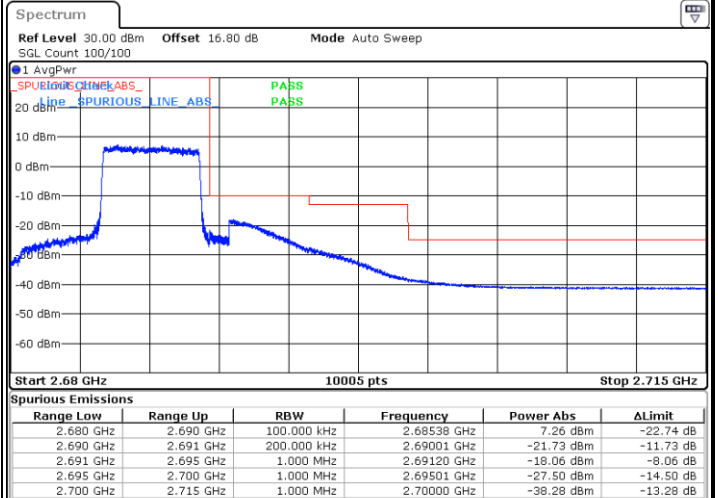
LTE Band 41 / 10MHz / 16QAM

Lowest Band Edge / 27 RB



Date: 25.AUG.2023 22:24:20

Highest Band Edge / 27 RB

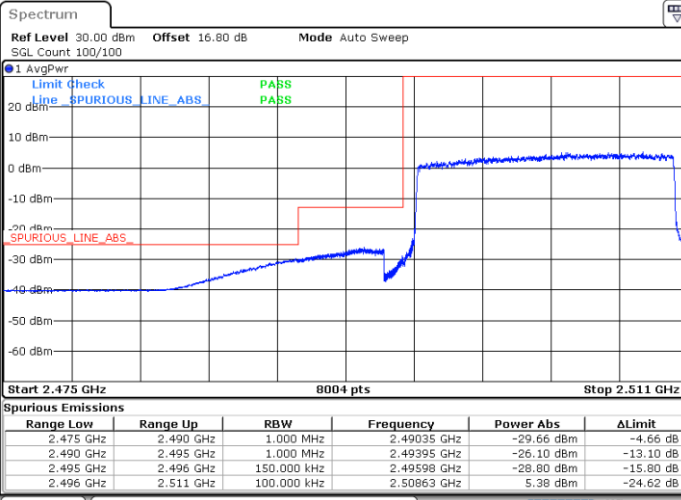


Date: 26.AUG.2023 02:55:36



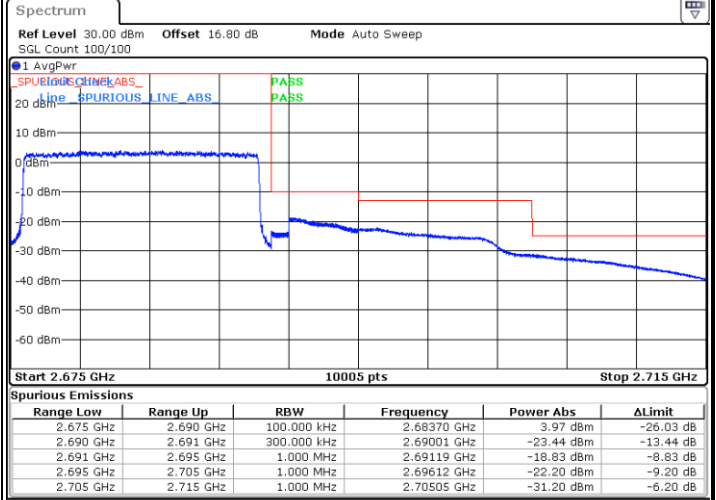
LTE Band 41 / 15MHz / QPSK

Lowest Band Edge / Full RB



Date: 25.AUG.2023 22:28:40

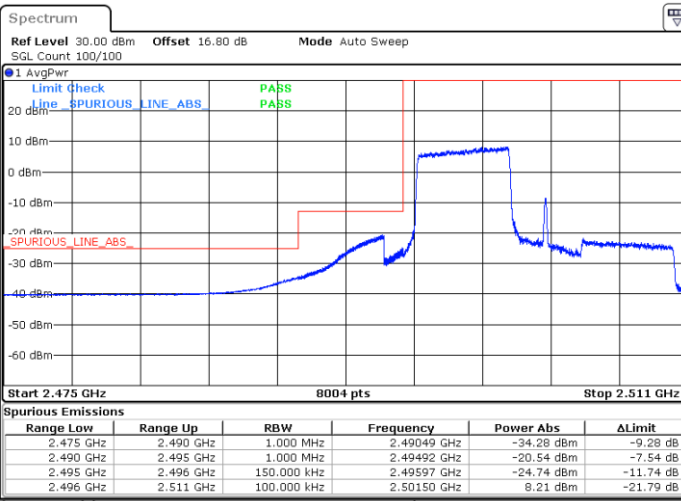
Highest Band Edge / Full RB



Date: 25.AUG.2023 22:32:04

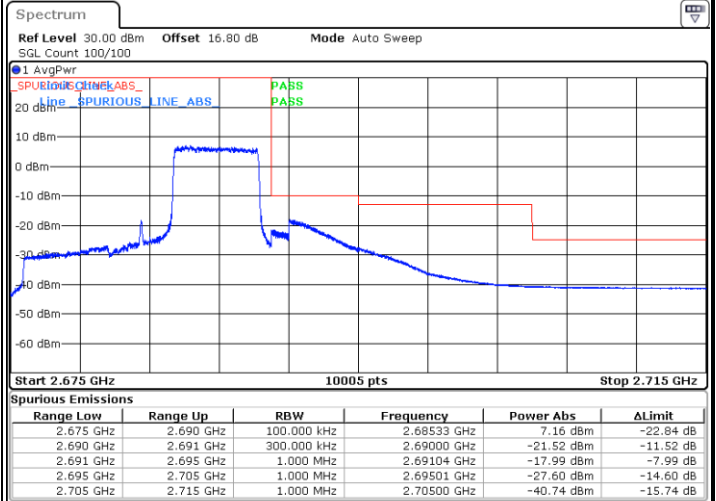
LTE Band 41 / 15MHz / 16QAM

Lowest Band Edge / 27 RB



Date: 25.AUG.2023 22:29:35

Highest Band Edge / 27 RB

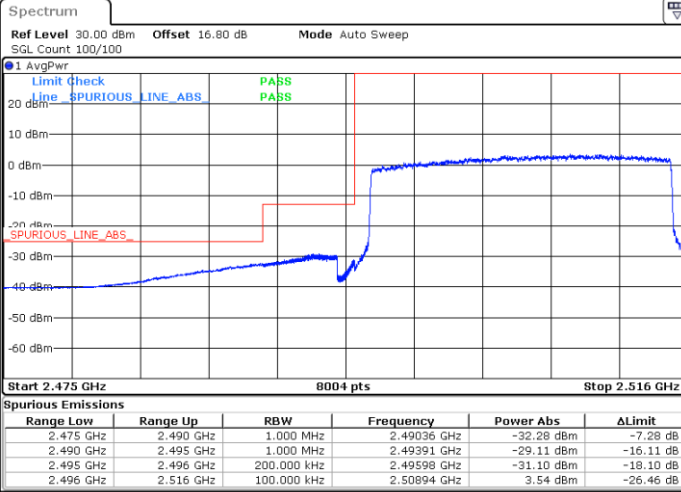


Date: 26.AUG.2023 02:56:53



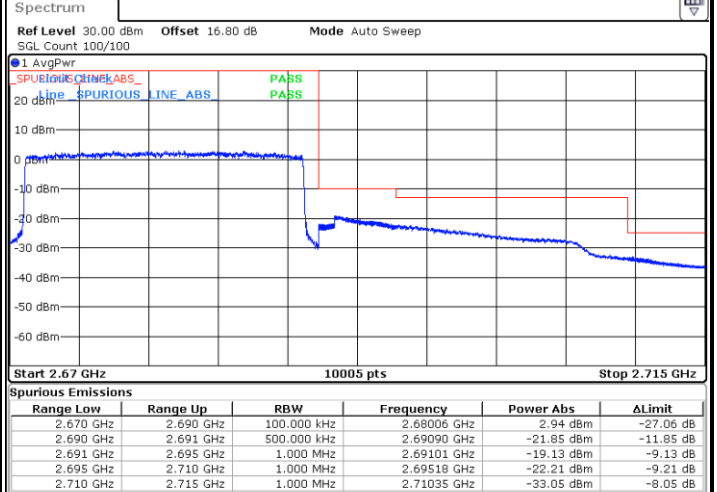
LTE Band 41 / 20MHz / QPSK

Lowest Band Edge / Full RB



Date: 25.AUG.2023 22:33:54

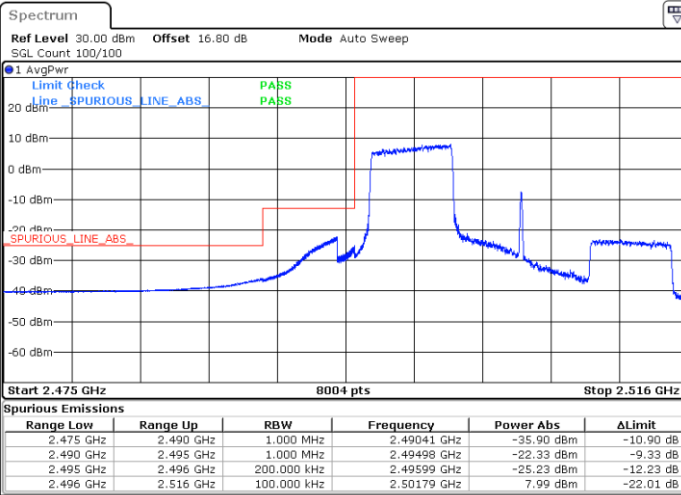
Highest Band Edge / Full RB



Date: 25.AUG.2023 22:38:09

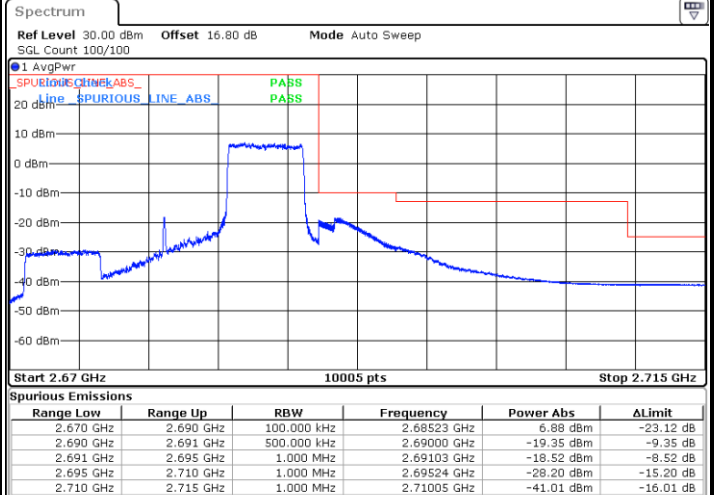
LTE Band 41 / 20MHz / 16QAM

Lowest Band Edge / 27 RB



Date: 25.AUG.2023 22:34:49

Highest Band Edge / 27 RB



Date: 26.AUG.2023 02:58:03

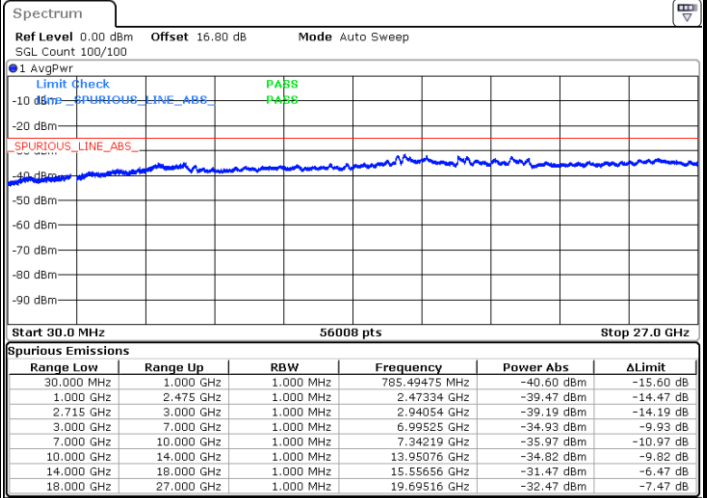
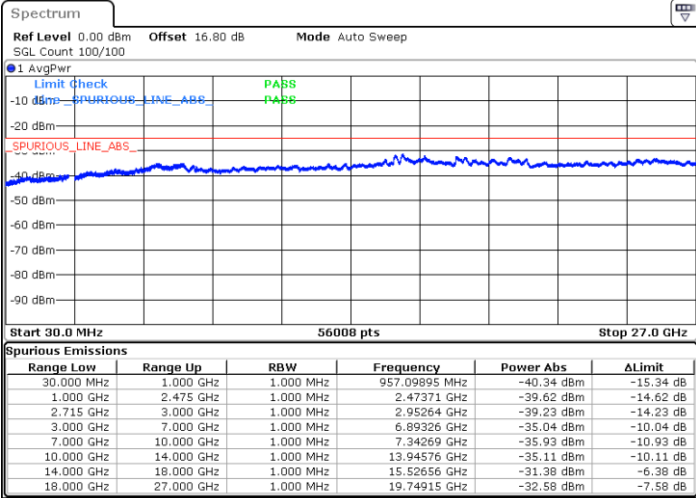


Conducted Spurious Emission

LTE Band 41 / 5MHz

Lowest Channel / QPSK

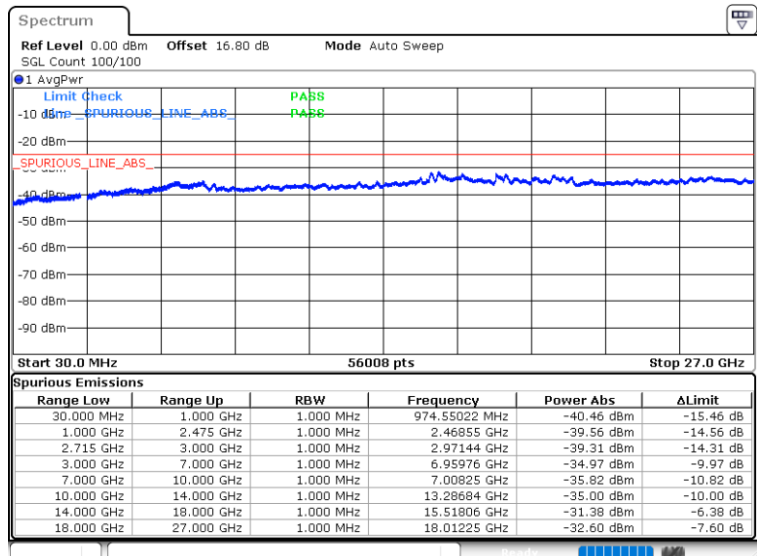
Middle Channel / QPSK



Date: 25.AUG.2023 22:12:44

Date: 25.AUG.2023 22:15:39

Highest Channel / QPSK



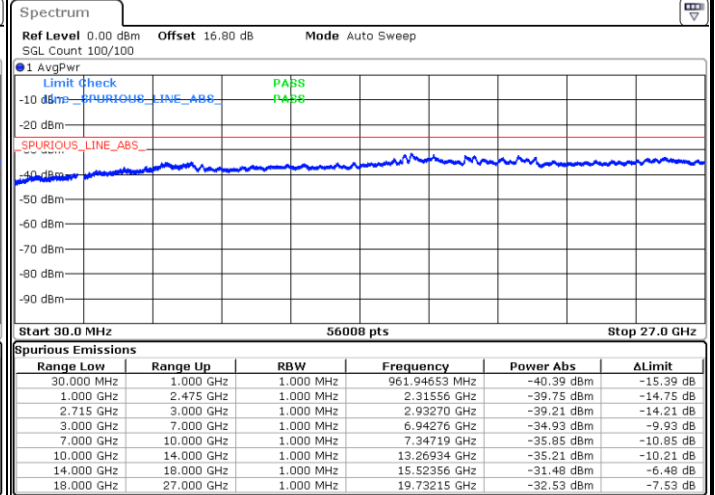
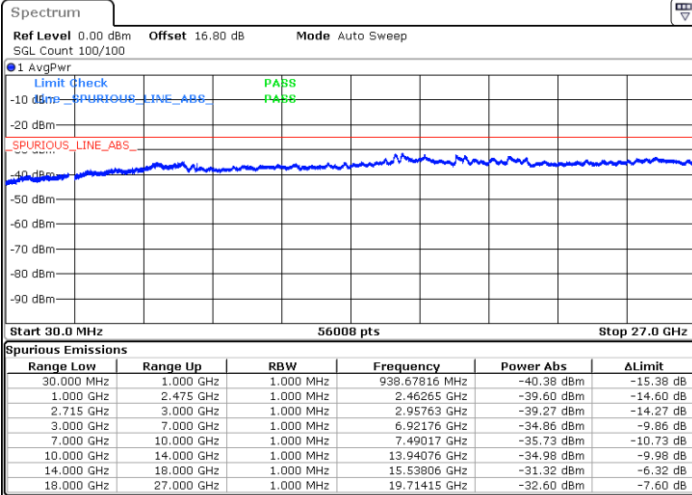
Date: 25.AUG.2023 22:22:28



LTE Band 41 / 10MHz

Lowest Channel / QPSK

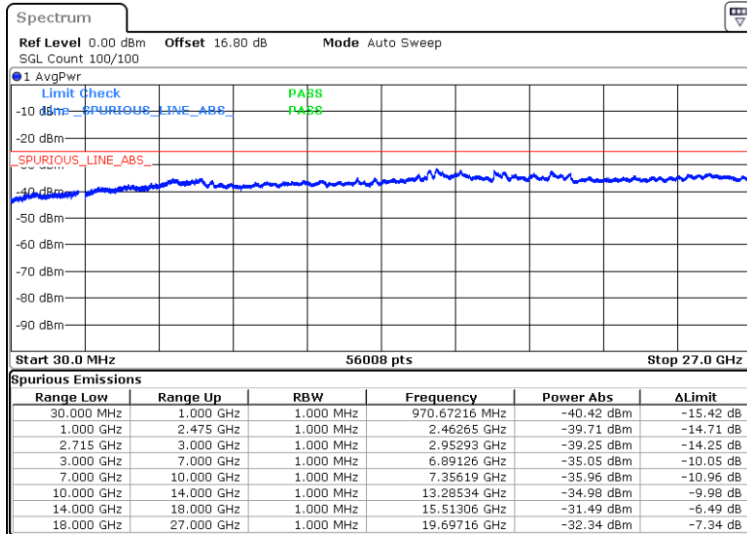
Middle Channel / QPSK



Date: 25.AUG.2023 22:40:09

Date: 25.AUG.2023 22:41:13

Highest Channel / QPSK



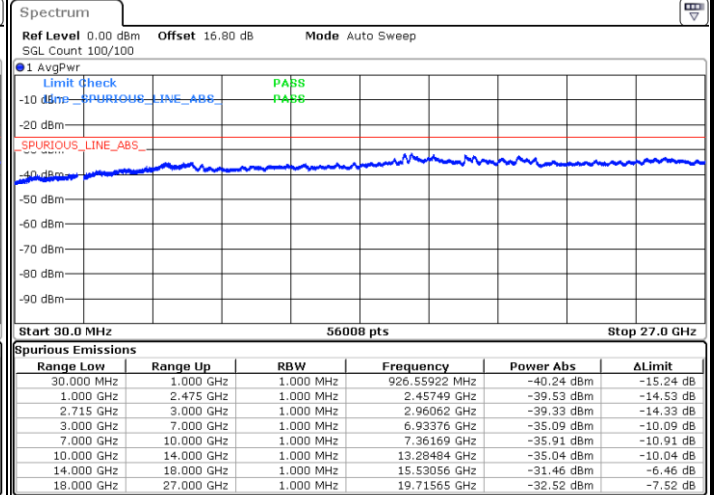
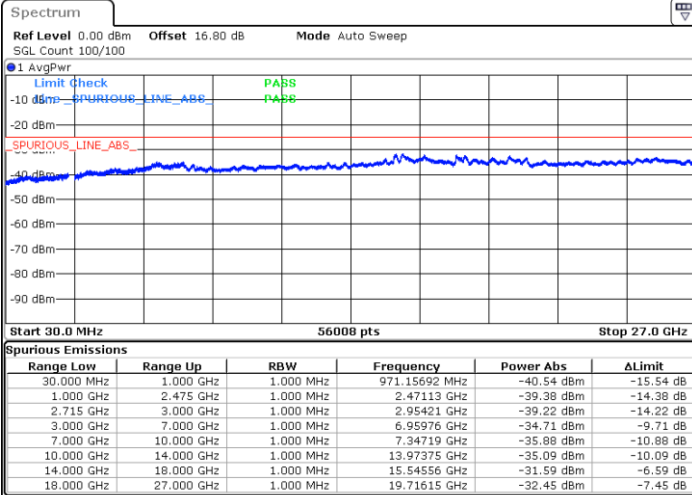
Date: 25.AUG.2023 22:42:17



LTE Band 41 / 15MHz

Lowest Channel / QPSK

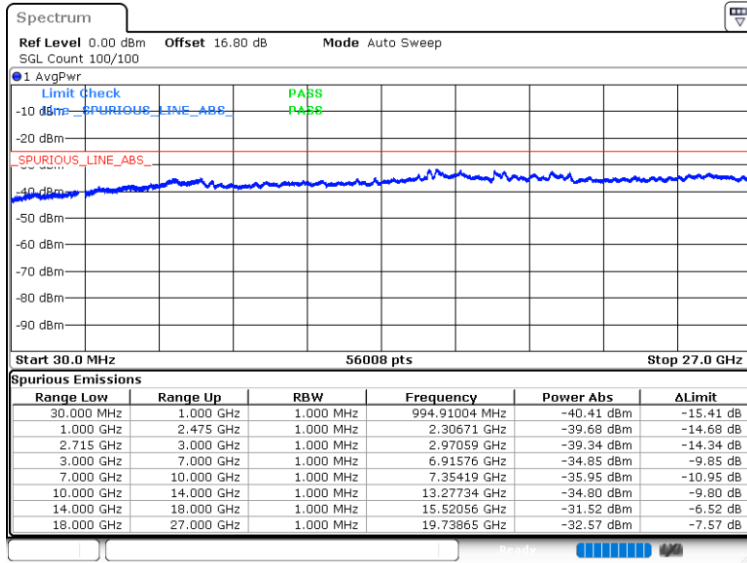
Middle Channel / QPSK



Date: 25.AUG.2023 22:43:22

Date: 25.AUG.2023 22:44:27

Highest Channel / QPSK



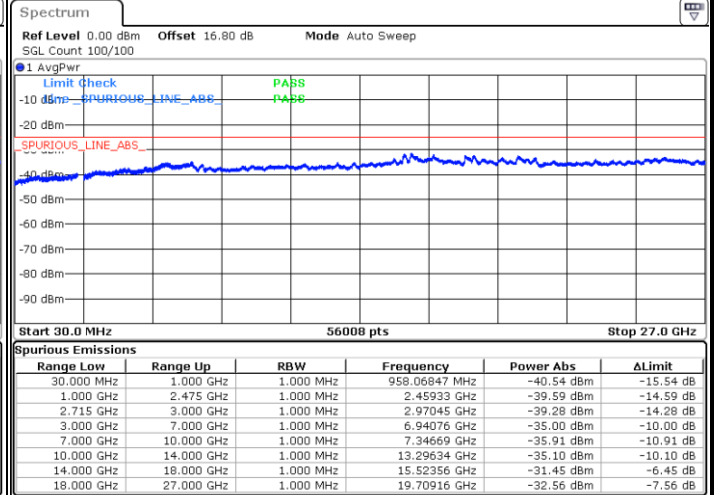
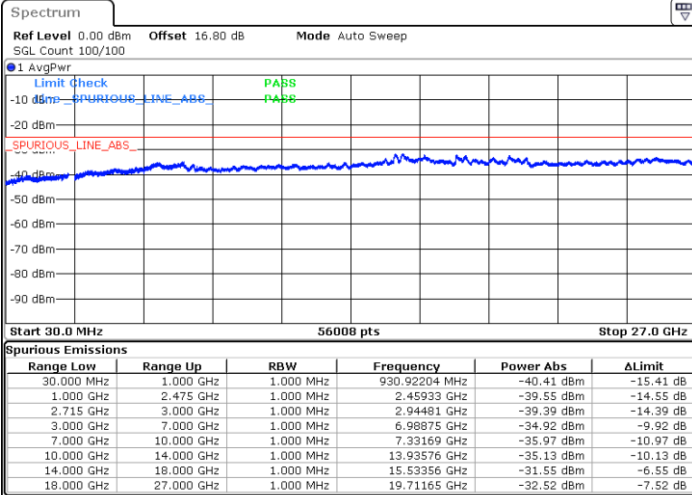
Date: 25.AUG.2023 22:45:31



LTE Band 41 / 20MHz

Lowest Channel / QPSK

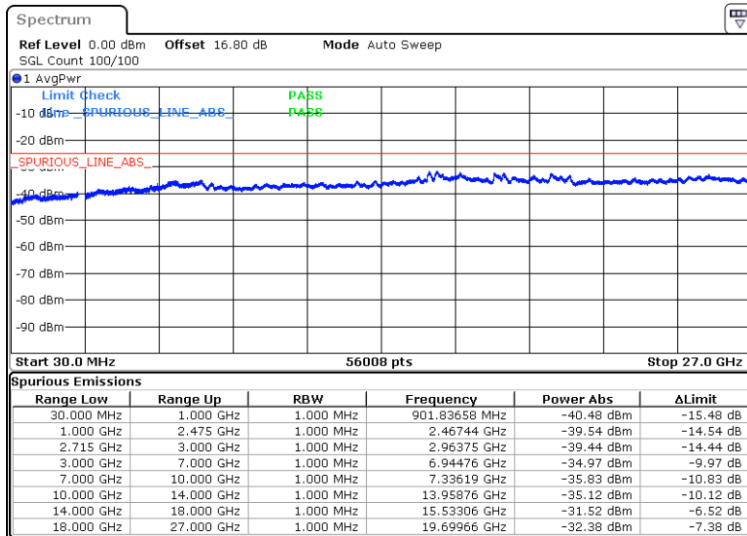
Middle Channel / QPSK



Date: 25.AUG.2023 22:46:36

Date: 25.AUG.2023 22:47:40

Highest Channel / QPSK



Date: 25.AUG.2023 22:48:45



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	0.0045	PASS
40	Normal Voltage	0.0044	
30	Normal Voltage	0.0022	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0020	
0	Normal Voltage	0.0051	
-10	Normal Voltage	0.0034	
20	Maximum Voltage	0.0008	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0056	

Note:

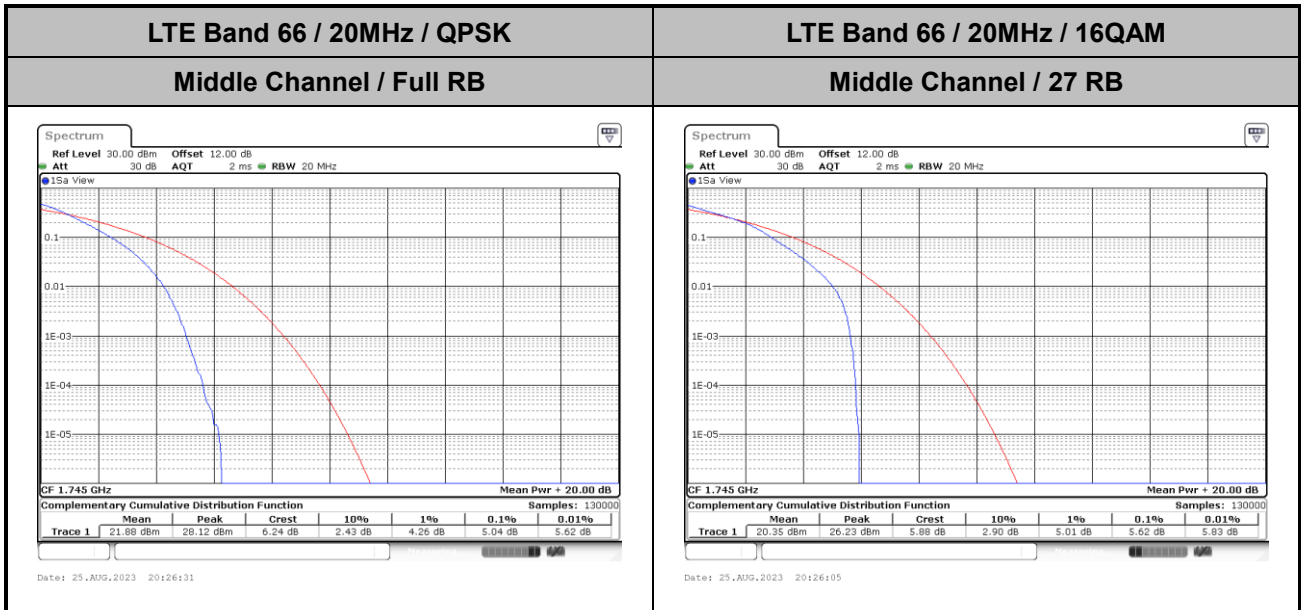
1. Normal Voltage = 3.8 V. ; Battery End Point (BEP) = 3.3 V. ; Maximum Voltage = 4.2 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 66

Peak-to-Average Ratio

Mode	LTE Band 66 / 20MHz		
Mod.	QPSK	16QAM	Limit: 13dB
RB Size	Full RB	27 RB	Result
Middle CH	5.04	5.62	PASS





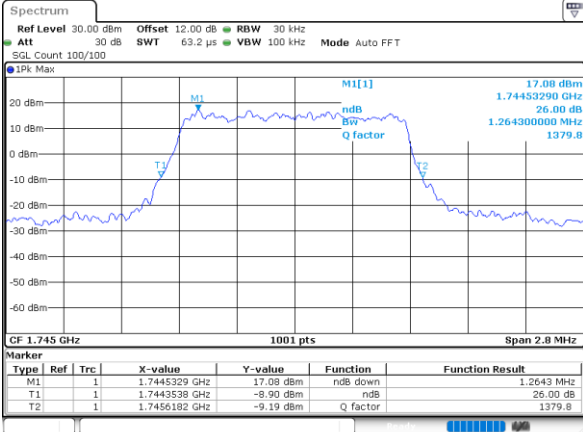
26dB Bandwidth

Mode	LTE Band 66 : 26dB BW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	1.26	1.28	2.97	3.03	4.90	4.88	9.75	5.42	14.39	5.78	19.06	5.79



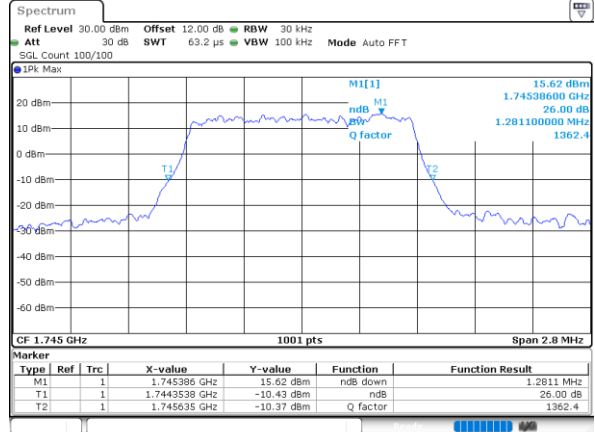
LTE Band 66

Middle Channel / 1.4MHz / QPSK



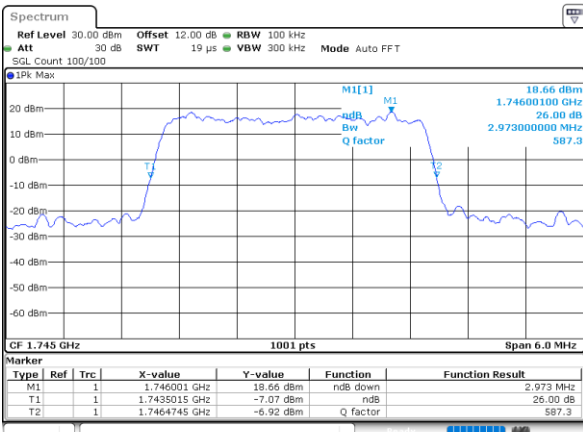
Date: 25_AUG.2023 09:06:54

Middle Channel / 1.4MHz / 16QAM



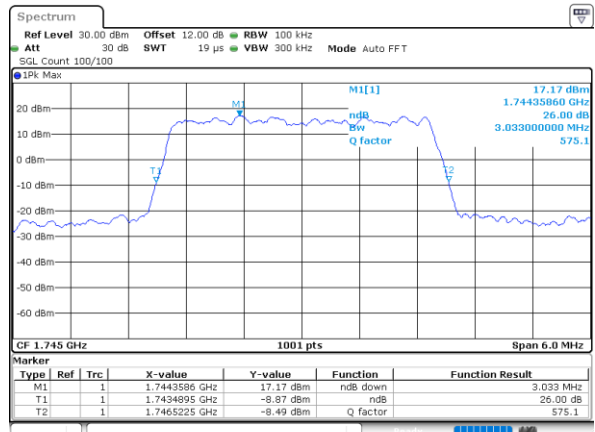
Date: 25_AUG.2023 09:07:120

Middle Channel / 3MHz / QPSK



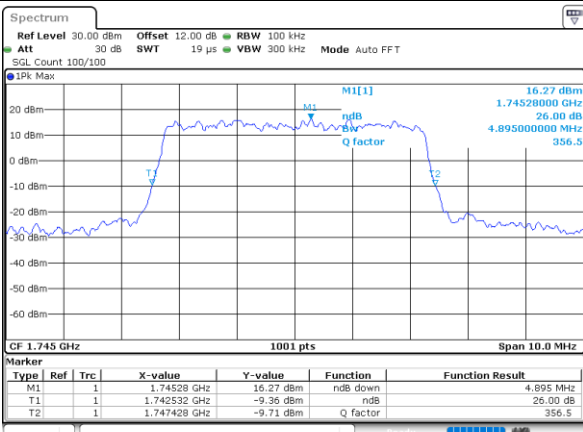
Date: 25_AUG.2023 09:17:10

Middle Channel / 3MHz / 16QAM



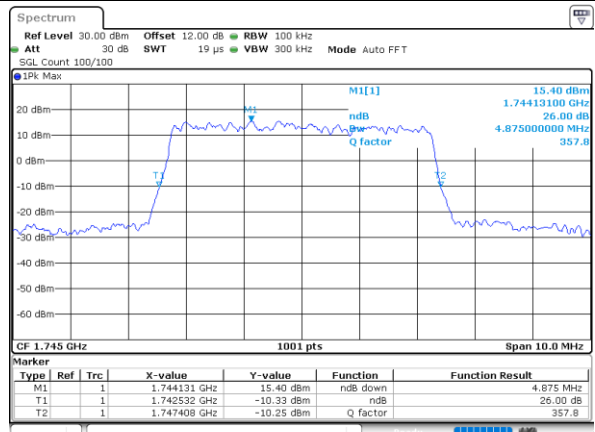
Date: 25_AUG.2023 09:17:136

Middle Channel / 5MHz / QPSK



Date: 25_AUG.2023 09:23:124

Middle Channel / 5MHz / 16QAM

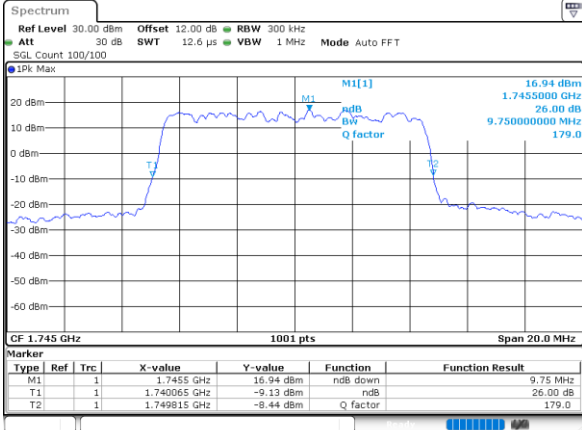


Date: 25_AUG.2023 09:23:150



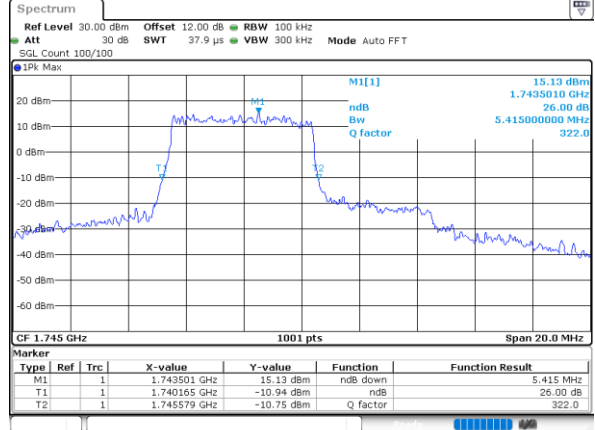
LTE Band 66

Middle Channel / 10MHz / QPSK



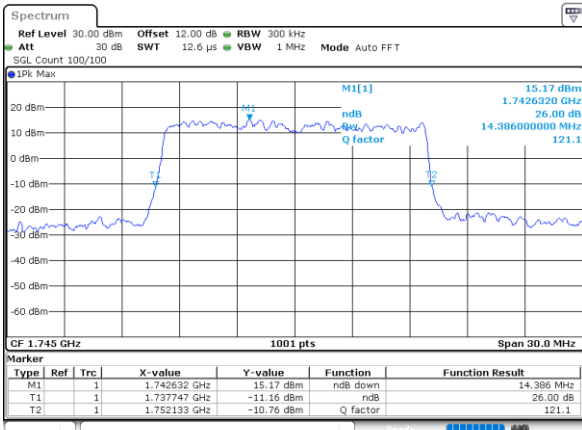
Date: 5.SEP.2023 22:23:36

Middle Channel / 10MHz / 16QAM



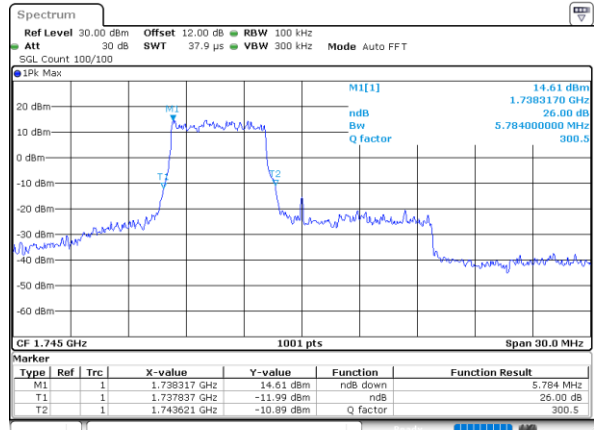
Date: 25.AUG.2023 09:30:19

Middle Channel / 15MHz / QPSK



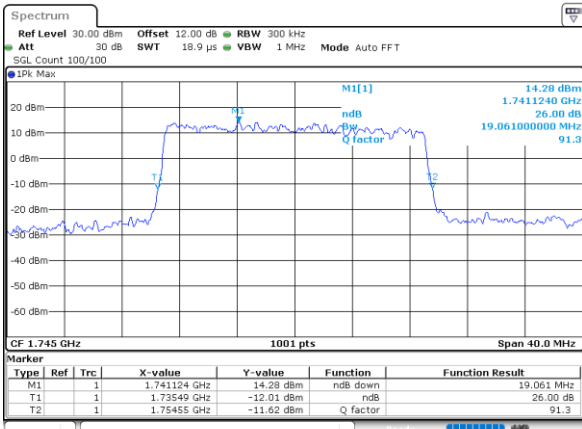
Date: 5.SEP.2023 22:24:24

Middle Channel / 15MHz / 16QAM



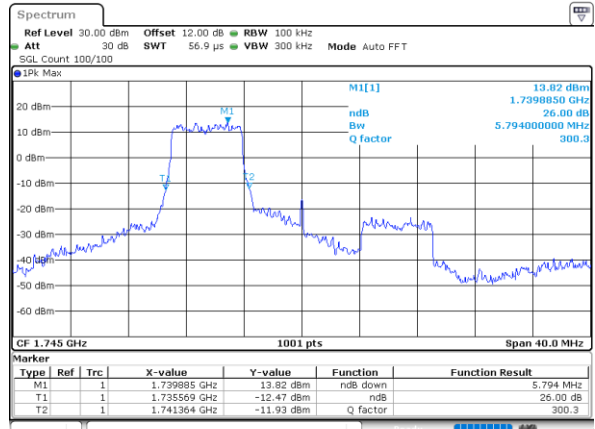
Date: 25.AUG.2023 09:36:33

Middle Channel / 20MHz / QPSK



Date: 5.SEP.2023 22:25:13

Middle Channel / 20MHz / 16QAM



Date: 25.AUG.2023 20:23:50



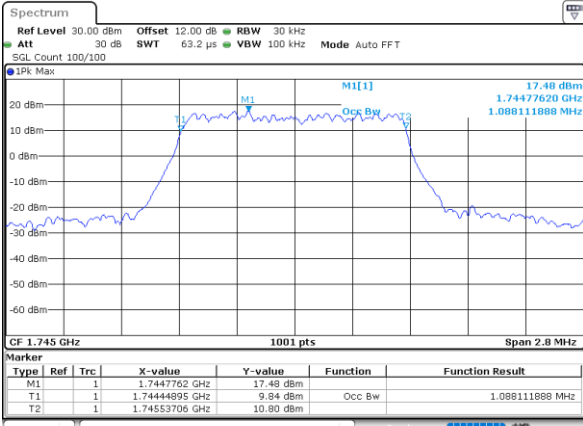
Occupied Bandwidth

Mode	LTE Band 66 : 99%OBW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	1.09	1.10	2.72	2.73	4.48	4.47	9.03	4.88	13.46	4.89	17.78	4.92



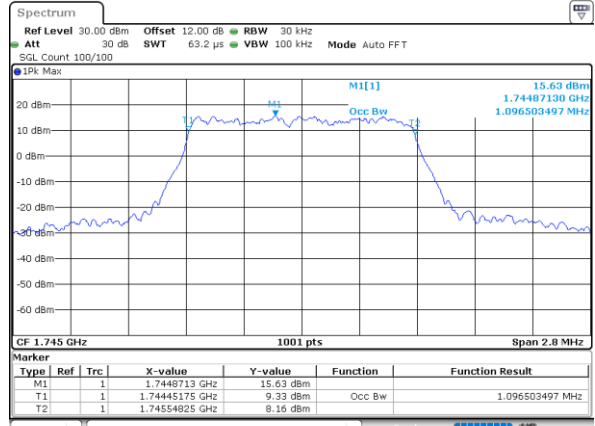
LTE Band 66

Middle Channel / 1.4MHz / QPSK



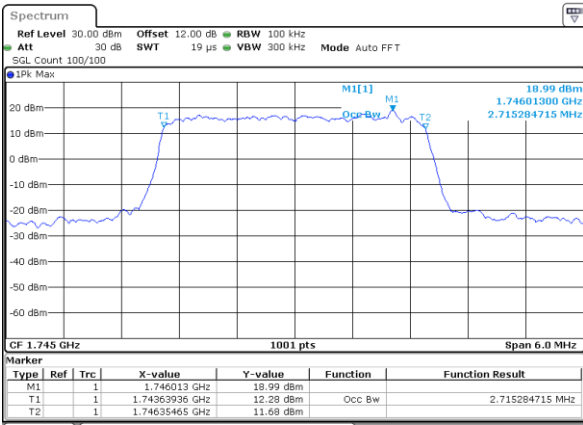
Date: 25.AUG.2023 09:10:01

Middle Channel / 1.4MHz / 16QAM



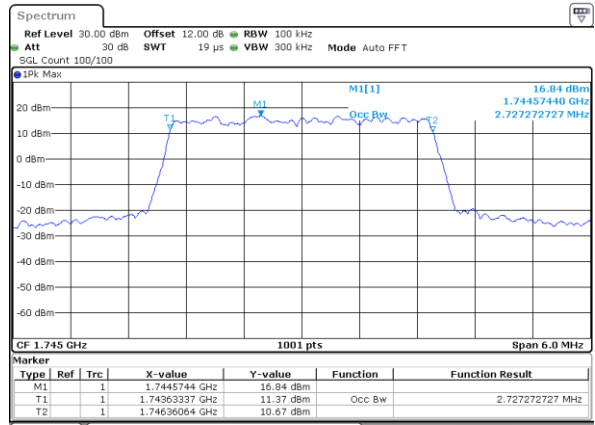
Date: 25.AUG.2023 09:10:128

Middle Channel / 3MHz / QPSK



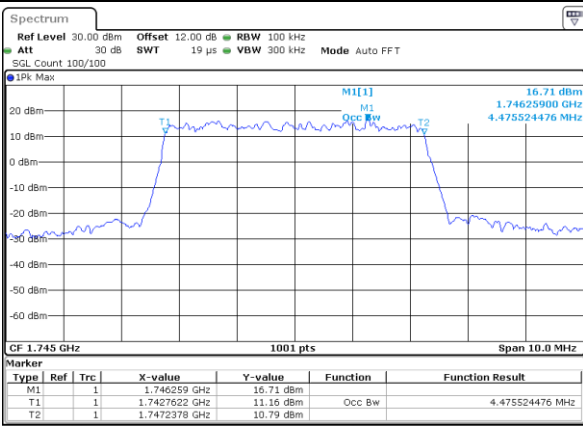
Date: 25.AUG.2023 09:16:18

Middle Channel / 3MHz / 16QAM



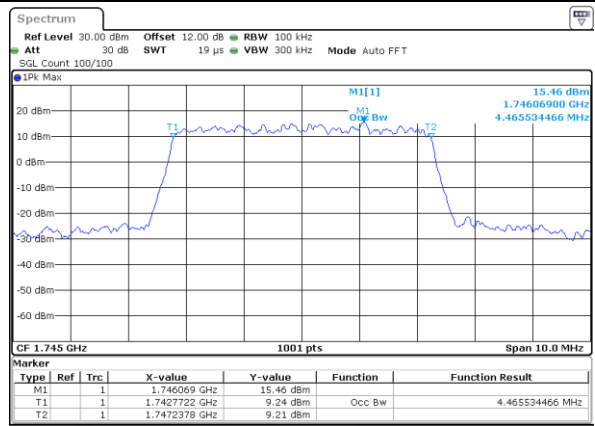
Date: 25.AUG.2023 09:16:144

Middle Channel / 5MHz / QPSK



Date: 25.AUG.2023 09:22:131

Middle Channel / 5MHz / 16QAM

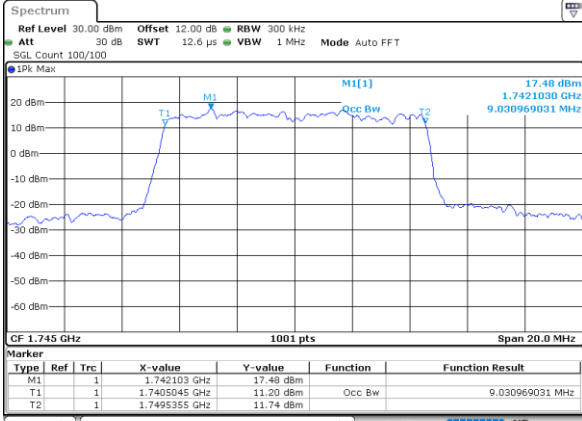


Date: 25.AUG.2023 09:22:158



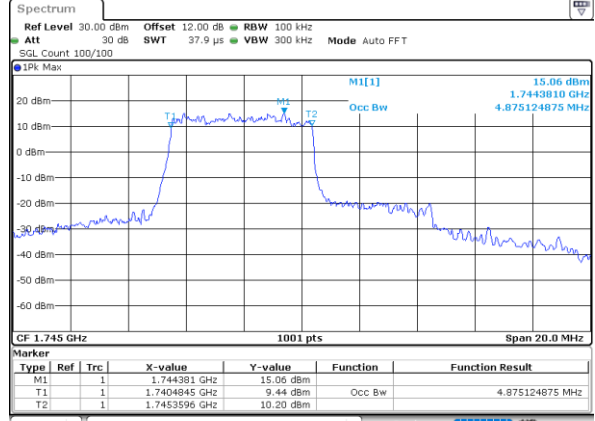
LTE Band 66

Middle Channel / 10MHz / QPSK



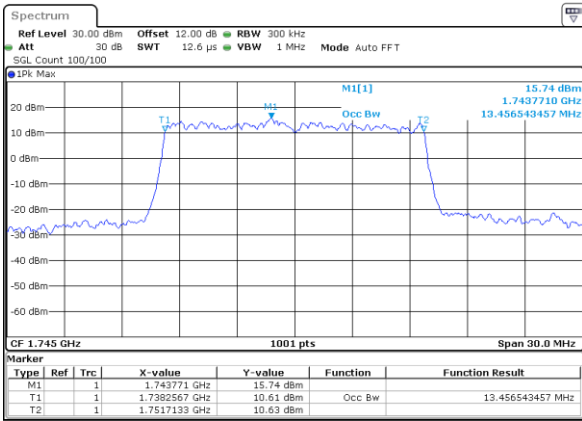
Date: 5.SEP.2023 22:23:12

Middle Channel / 10MHz / 16QAM



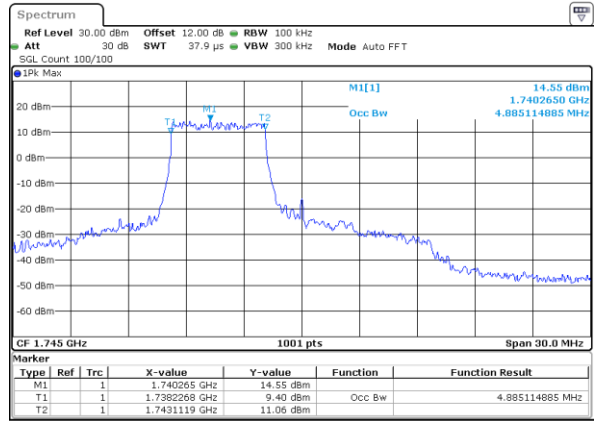
Date: 25.AUG.2023 09:29:26

Middle Channel / 15MHz / QPSK



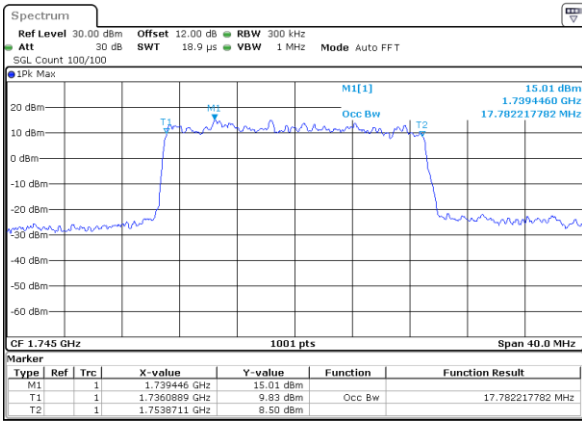
Date: 5.SEP.2023 22:24:00

Middle Channel / 15MHz / 16QAM



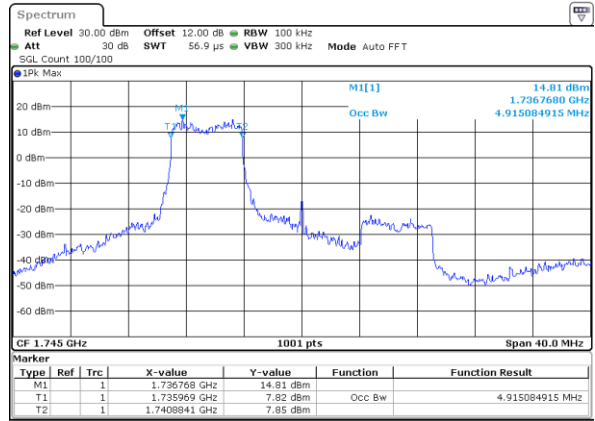
Date: 25.AUG.2023 09:35:40

Middle Channel / 20MHz / QPSK



Date: 5.SEP.2023 22:24:49

Middle Channel / 20MHz / 16QAM



Date: 25.AUG.2023 20:23:02