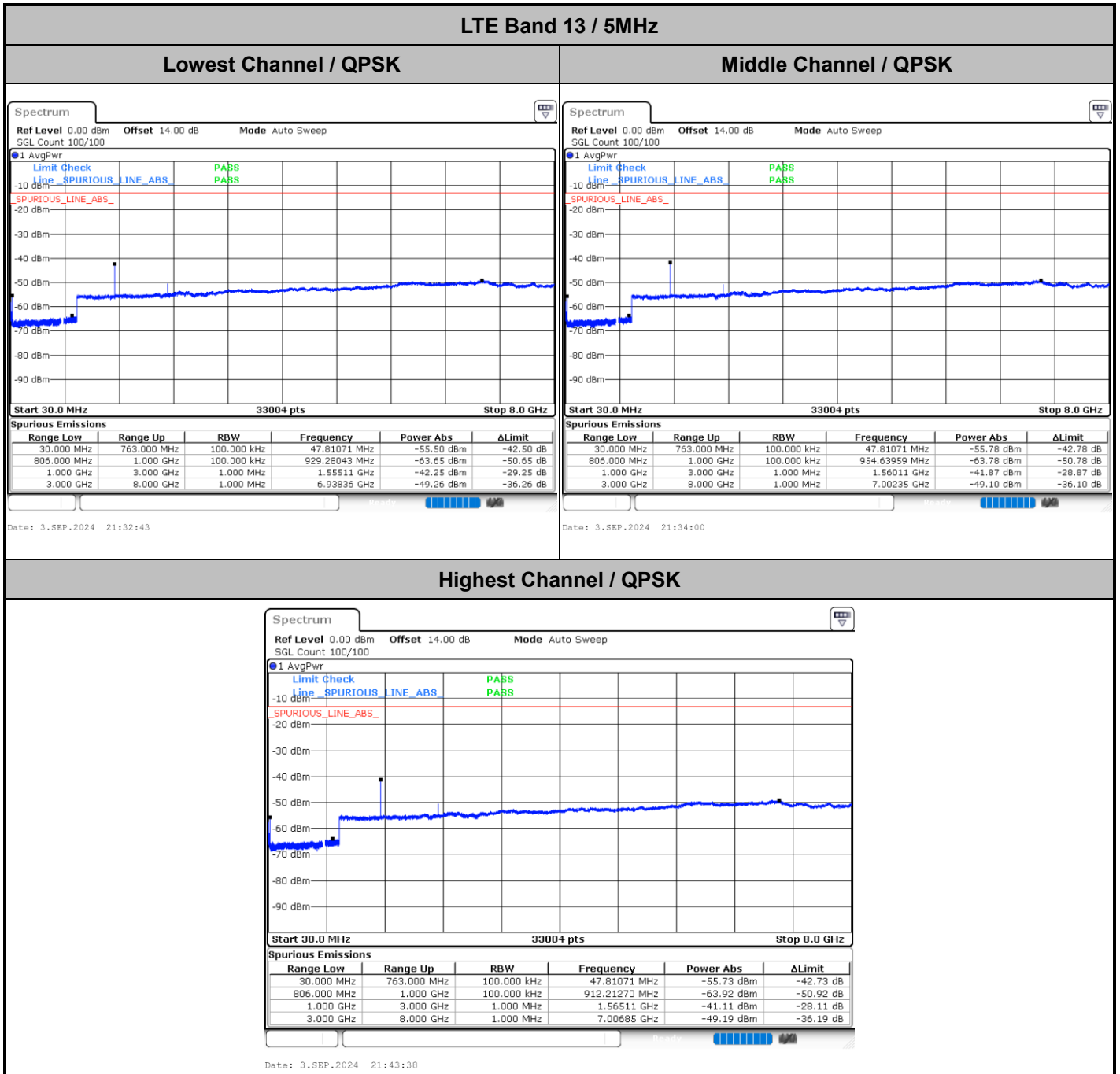




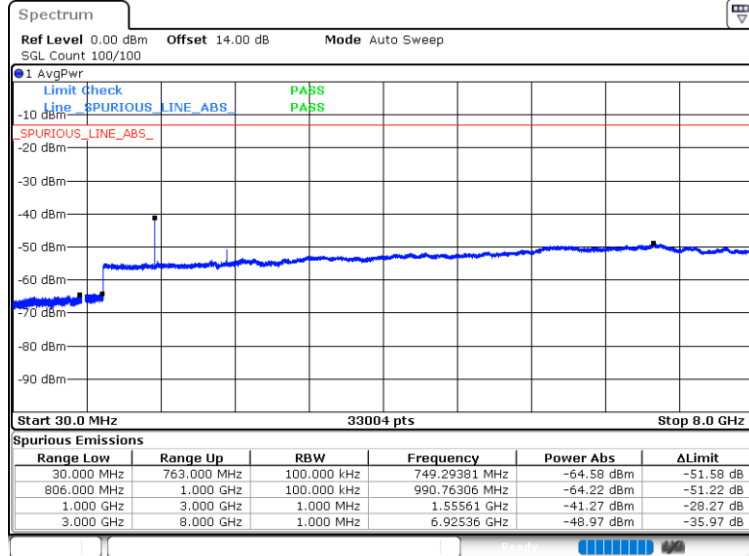
# Conducted Spurious Emission





LTE Band 13 / 10MHz

Middle Channel / QPSK



Date: 12-SEP-2024 14:28:13



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	0.0001	PASS
40	Normal Voltage	0.0006	
30	Normal Voltage	0.0012	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0015	
0	Normal Voltage	0.0003	
-10	Normal Voltage	0.0010	
-20	Normal Voltage	0.0009	
-30	Normal Voltage	0.0005	
20	Maximum Voltage	0.0001	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0014	

Note:

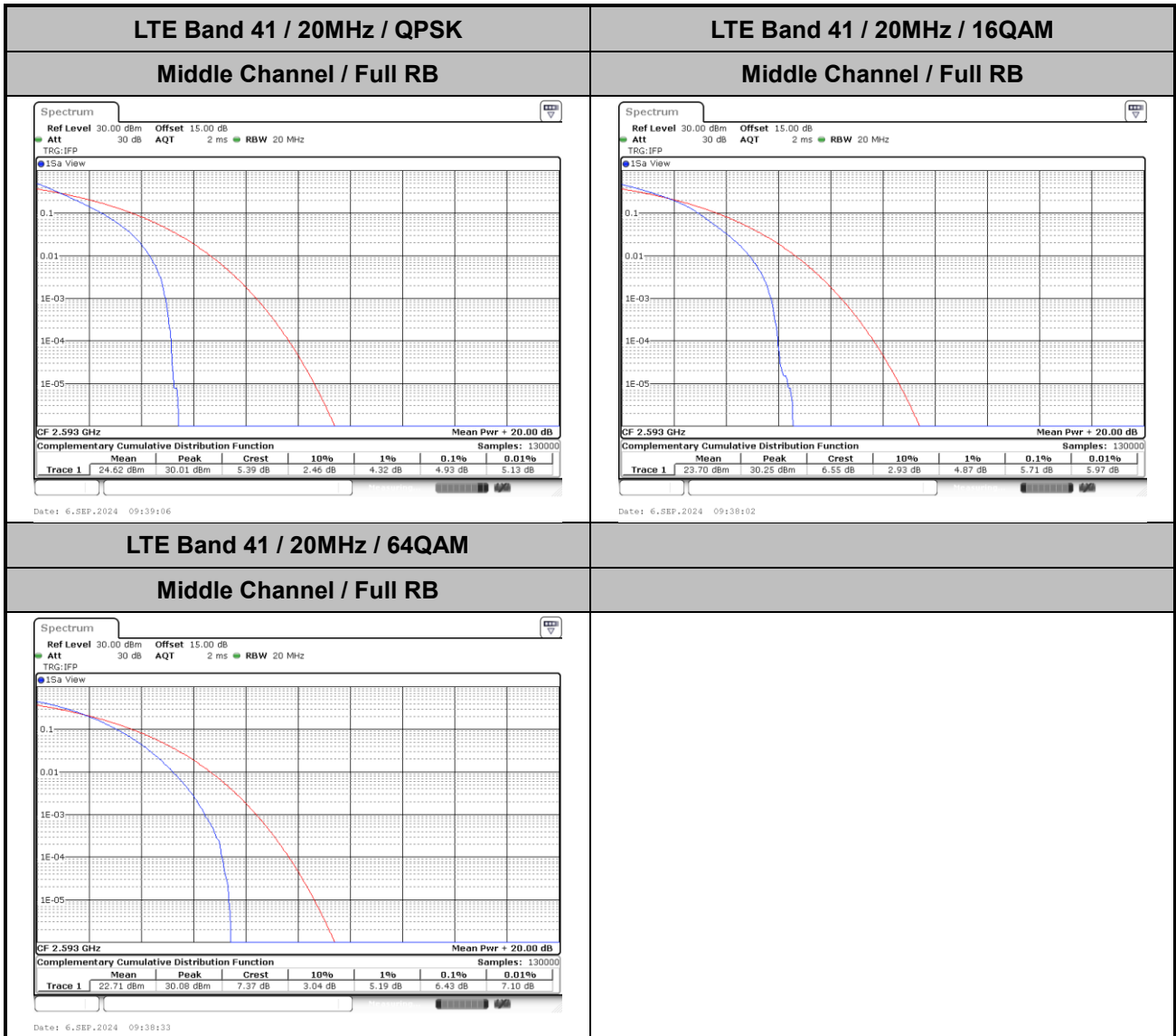
1. Normal Voltage =3.91 V. ; Battery End Point (BEP) =3.45 V. ; Maximum Voltage =4.50 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



# LTE Band 41

## Peak-to-Average Ratio

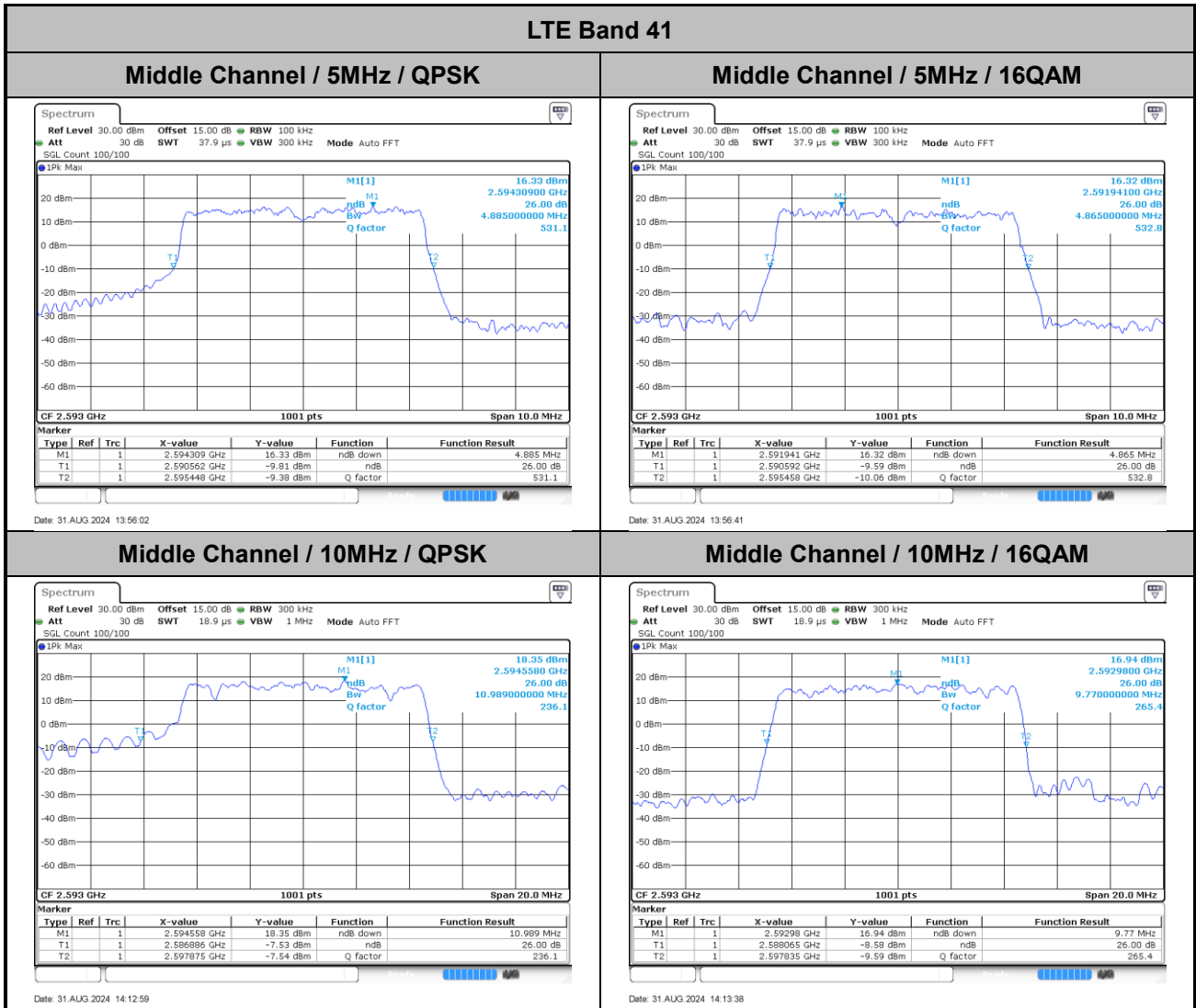
Mode	LTE Band 41 / 20MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	4.93	5.71	6.43	PASS





# 26dB Bandwidth

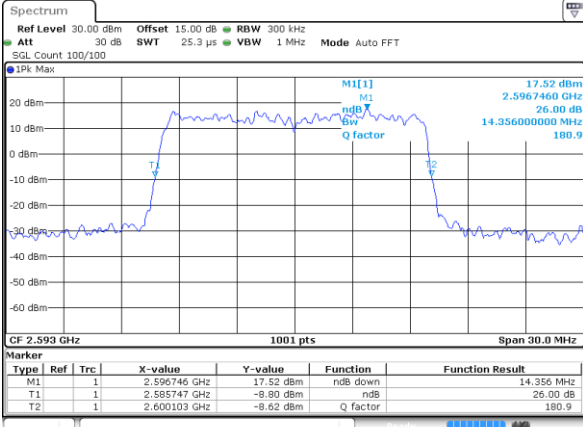
Mode	LTE Band 41 : 26dB BW(MHz)							
	5MHz		10MHz		15MHz		20MHz	
BW								
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	4.89	4.87	10.99	9.77	14.36	14.66	18.94	18.66





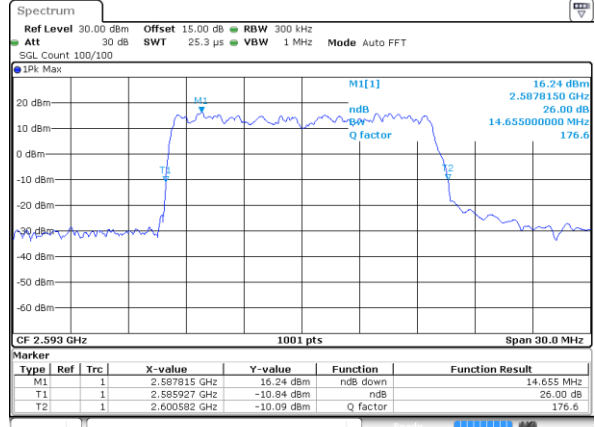
LTE Band 41

Middle Channel / 15MHz / QPSK



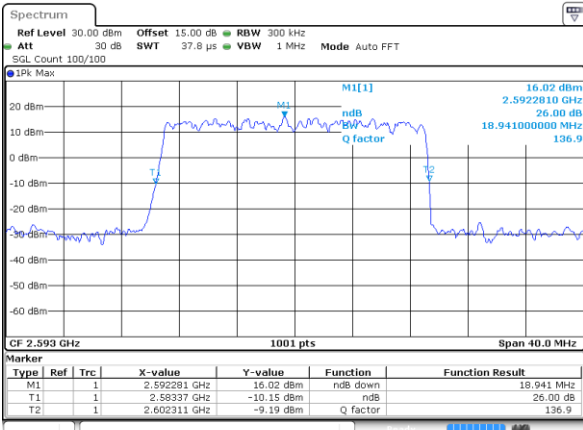
Date: 31 AUG 2024 14:28:39

Middle Channel / 15MHz / 16QAM



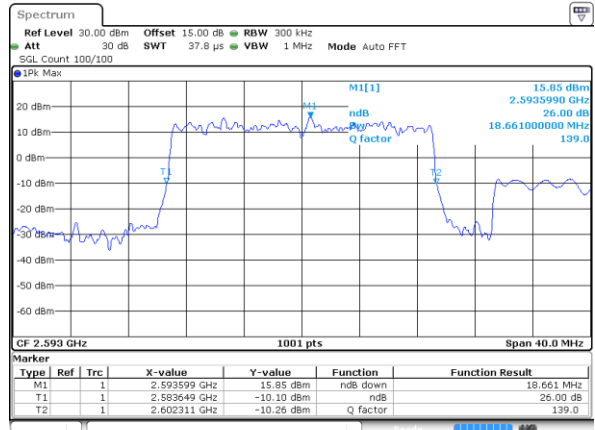
Date: 31 AUG 2024 14:29:18

Middle Channel / 20MHz / QPSK



Date: 31 AUG 2024 14:44:37

Middle Channel / 20MHz / 16QAM



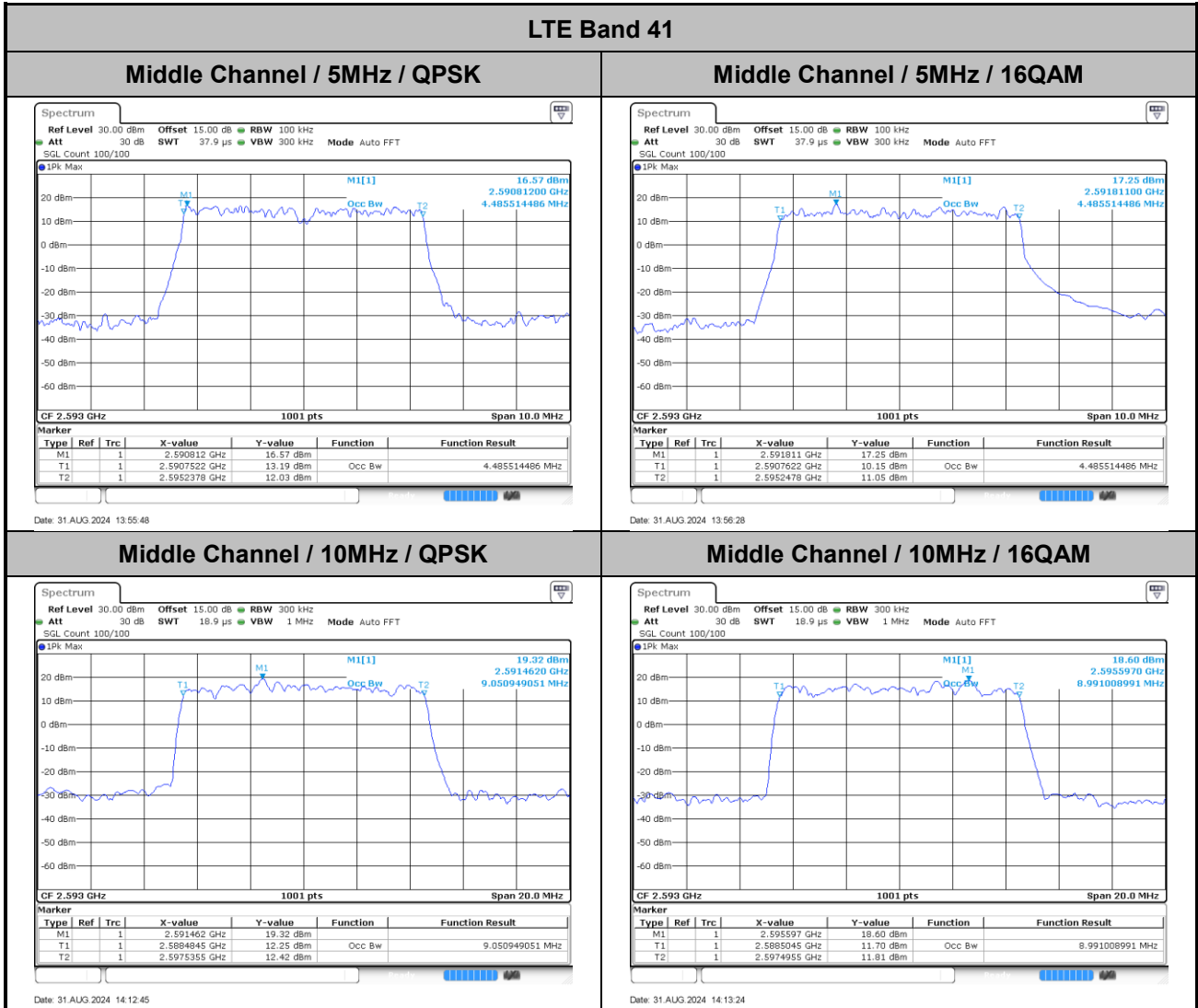
Date: 31 AUG 2024 14:45:16





# Occupied Bandwidth

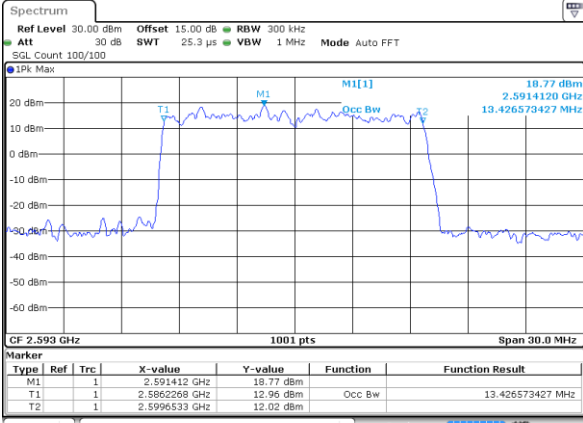
Mode	LTE Band 41 : 99%OBW(MHz)							
	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	4.49	4.49	9.05	8.99	13.43	13.46	17.90	18.74





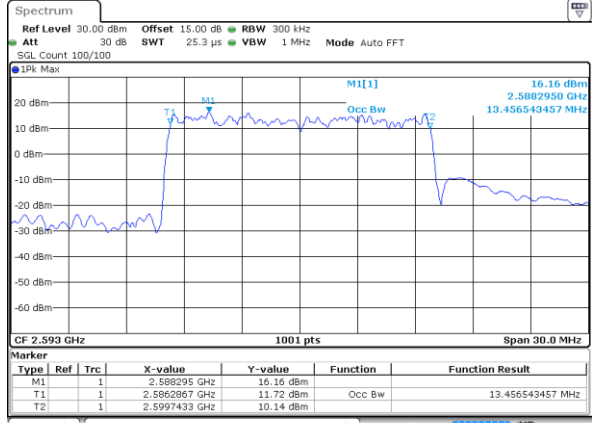
LTE Band 41

Middle Channel / 15MHz / QPSK



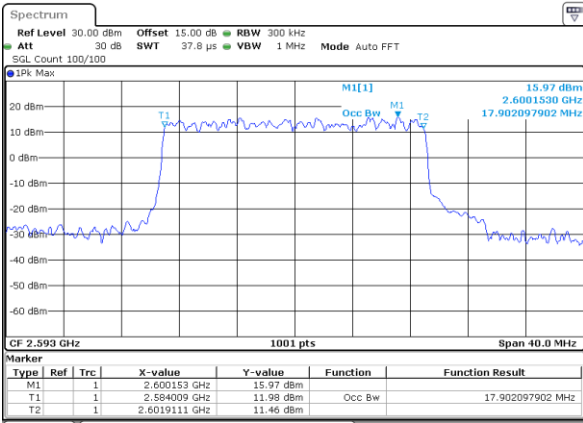
Date: 31 AUG 2024 14:28:25

Middle Channel / 15MHz / 16QAM



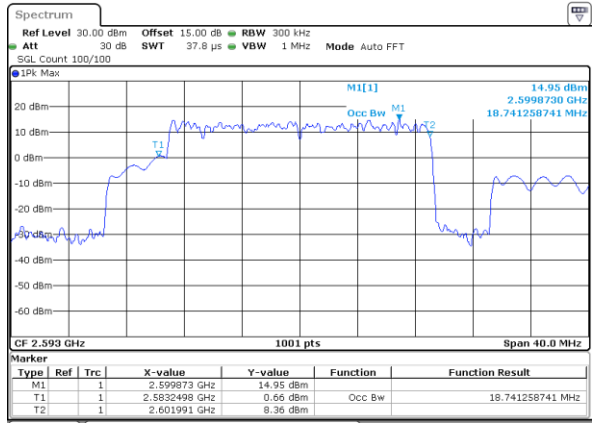
Date: 31 AUG 2024 14:29:04

Middle Channel / 20MHz / QPSK



Date: 31 AUG 2024 14:44:23

Middle Channel / 20MHz / 16QAM



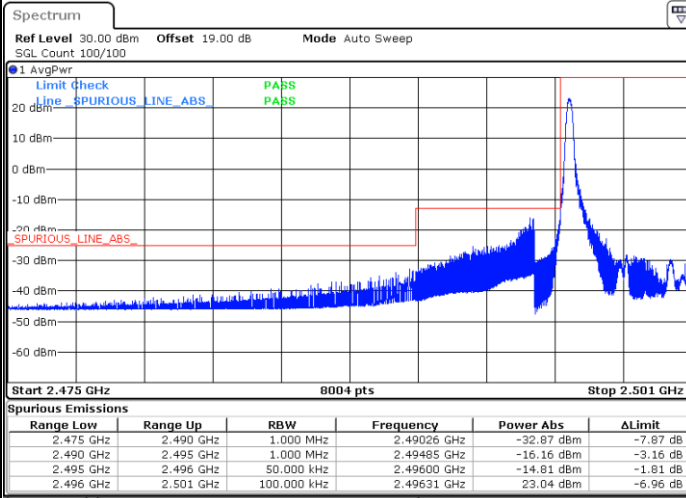
Date: 31 AUG 2024 14:45:02



# Conducted Band Edge

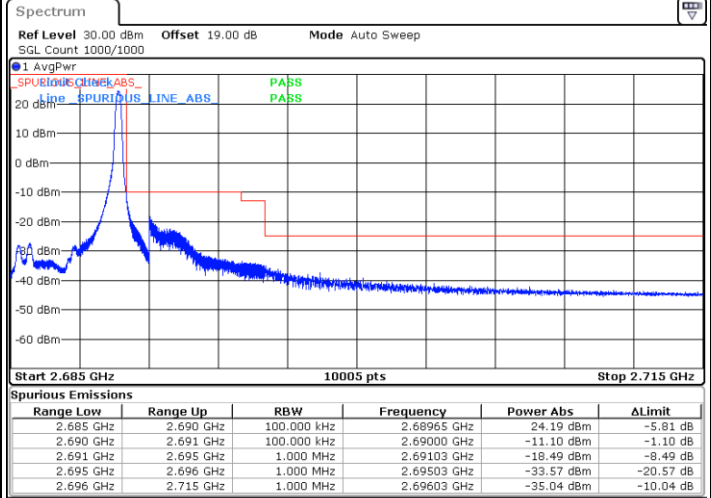
## LTE Band 41 / 5MHz / QPSK

### Lowest Band Edge / 1 RB



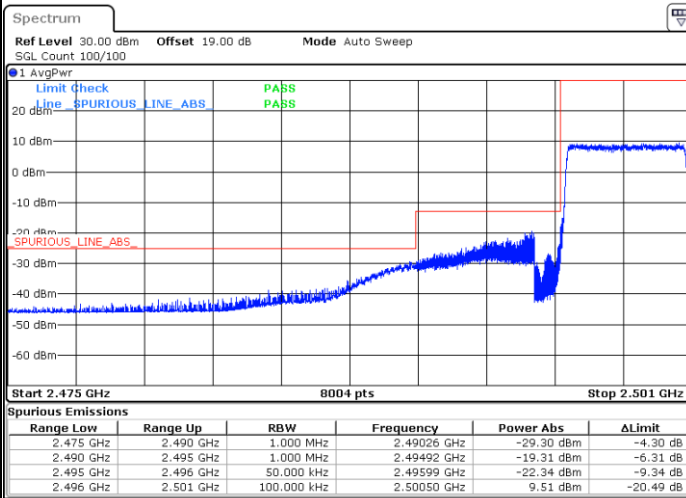
Date: 31.AUG.2024 13:48:45

### Highest Band Edge / 1 RB



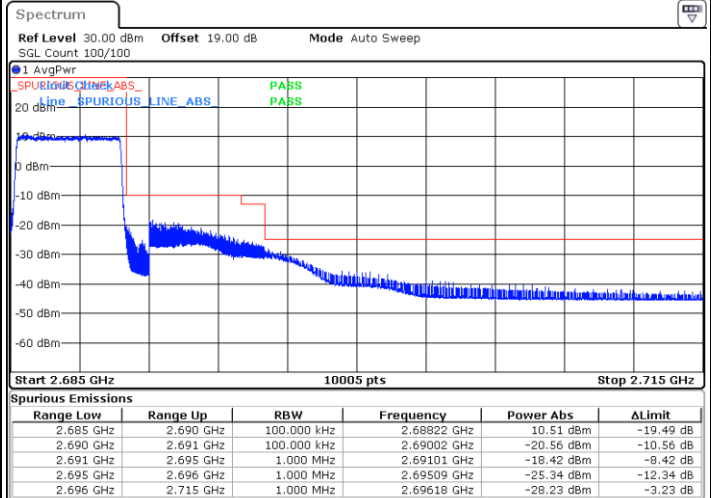
Date: 13.SEP.2024 12:01:20

### Lowest Band Edge / Full RB



Date: 31.AUG.2024 13:53:03

### Highest Band Edge / Full RB

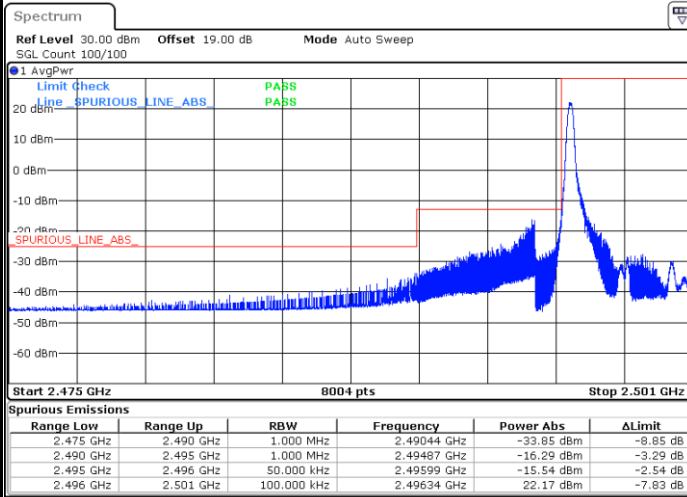


Date: 13.SEP.2024 10:51:05



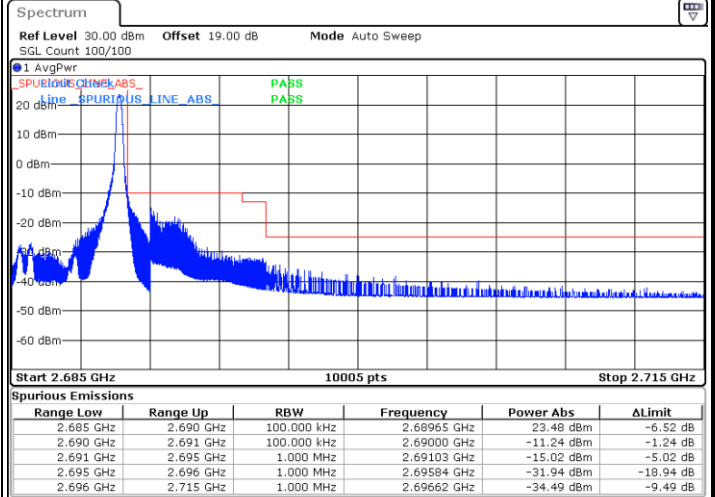
LTE Band 41 / 5MHz / 16QAM

Lowest Band Edge / 1RB



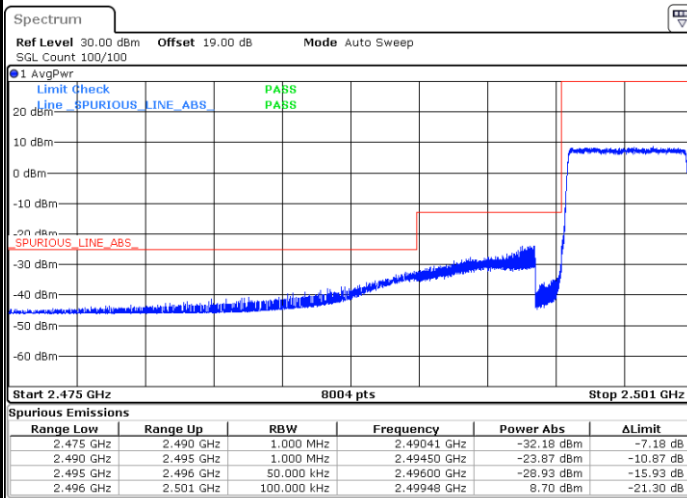
Date: 31.AUG.2024 13:49:37

Highest Band Edge / 1 RB



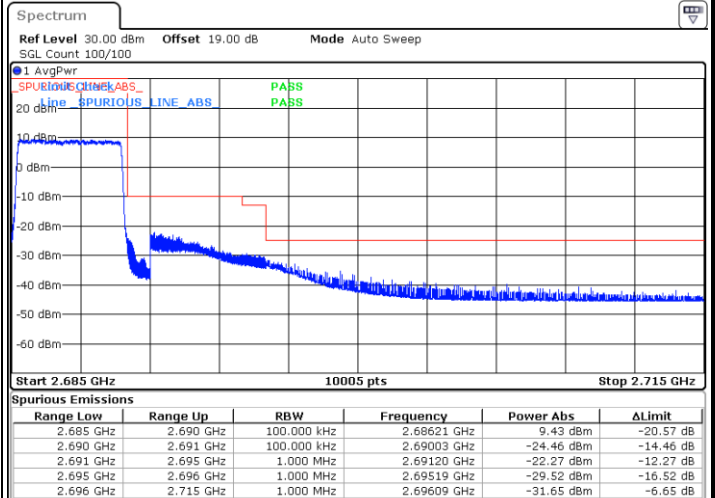
Date: 13.SEP.2024 11:08:13

Lowest Band Edge / Full RB



Date: 31.AUG.2024 13:52:11

Highest Band Edge / Full RB

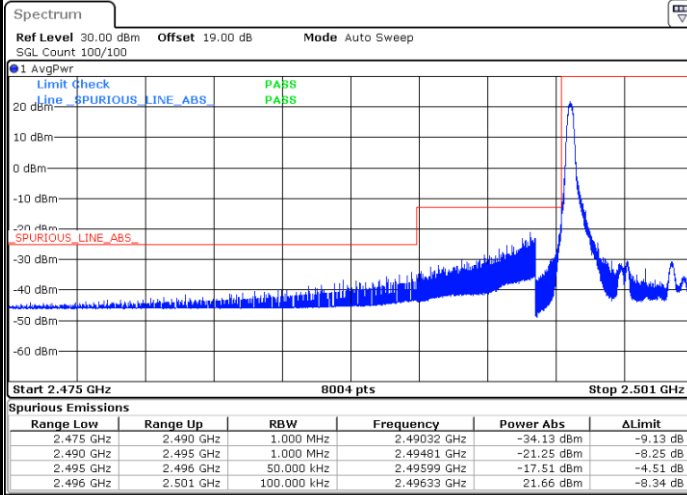


Date: 13.SEP.2024 10:52:39



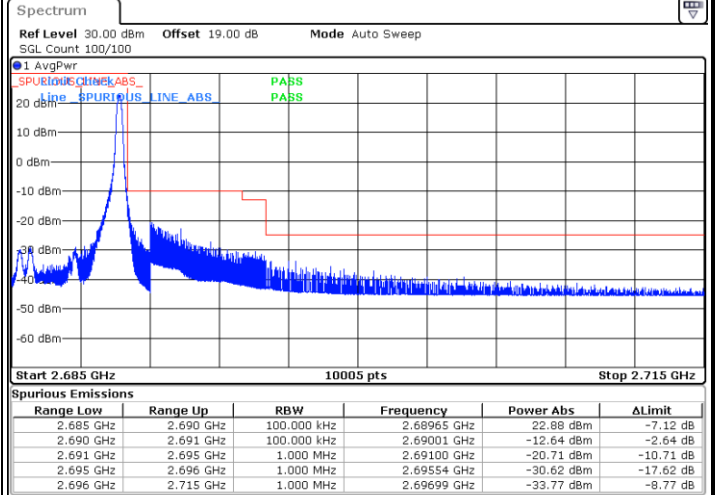
LTE Band 41 / 5MHz / 64QAM

Lowest Band Edge / 1RB



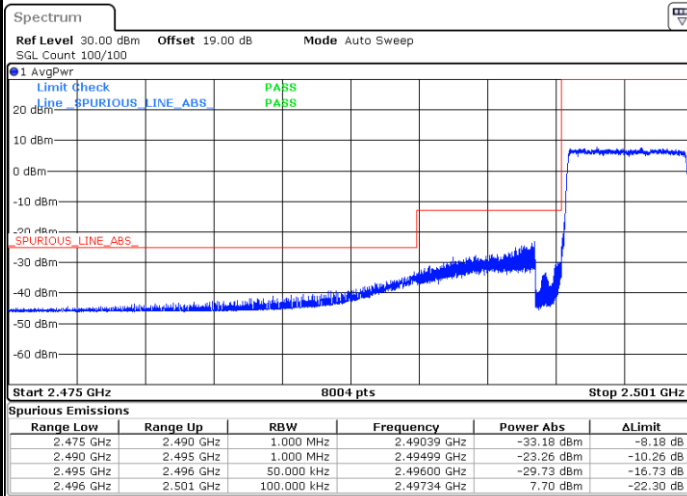
Date: 31 AUG.2024 13:50:28

Highest Band Edge / 1 RB



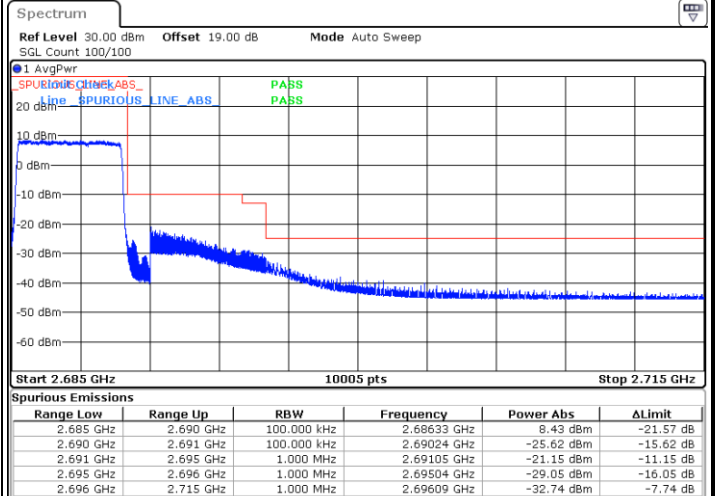
Date: 13.SEP.2024 11:09:23

Lowest Band Edge / Full RB



Date: 31 AUG.2024 13:51:20

Highest Band Edge / Full RB



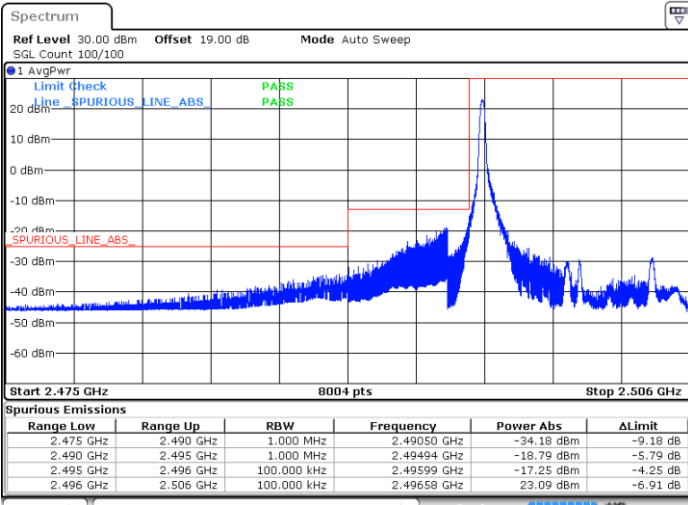
Date: 13.SEP.2024 10:53:52



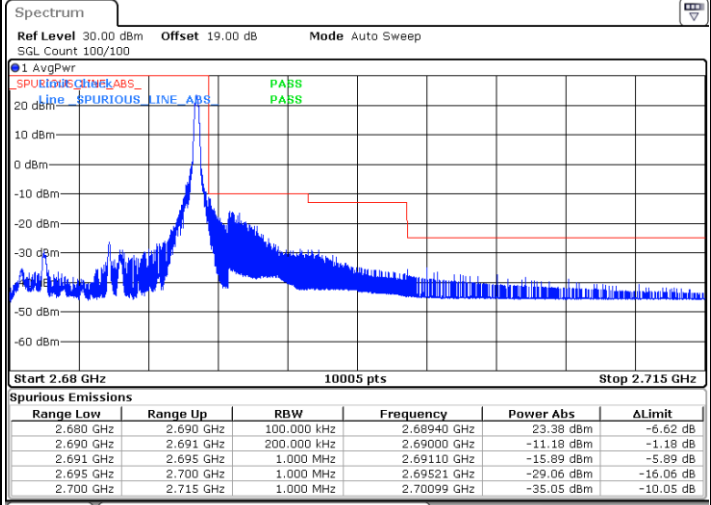
LTE Band 41 / 10MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



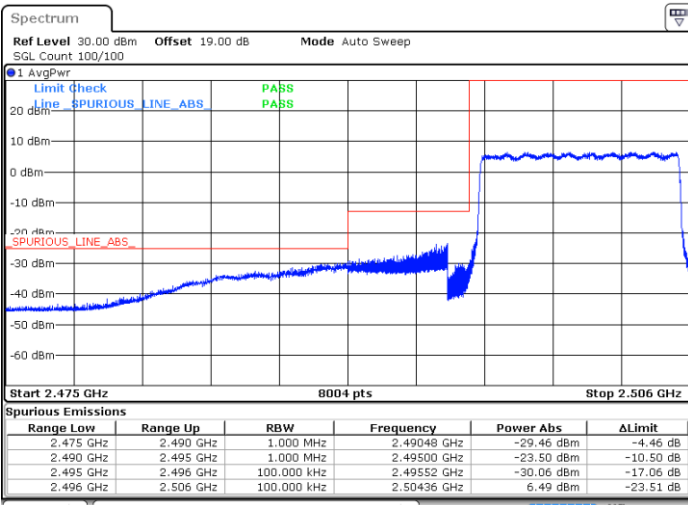
Date: 31 AUG. 2024 14:05:44



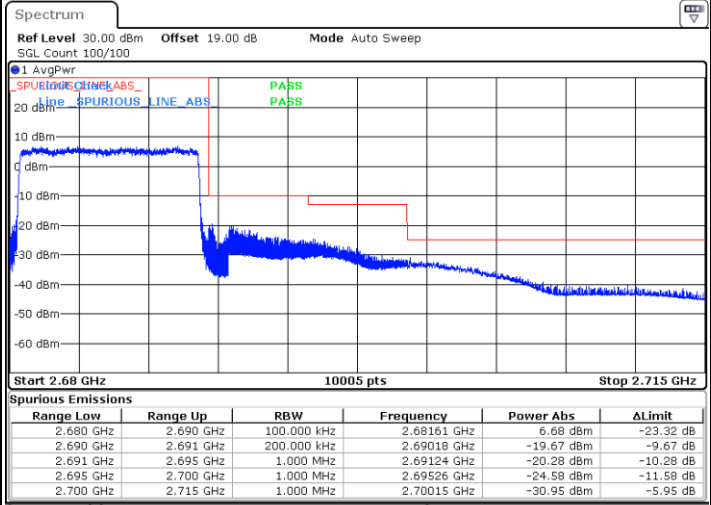
Date: 31 AUG. 2024 14:14:28

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 31 AUG. 2024 14:10:00

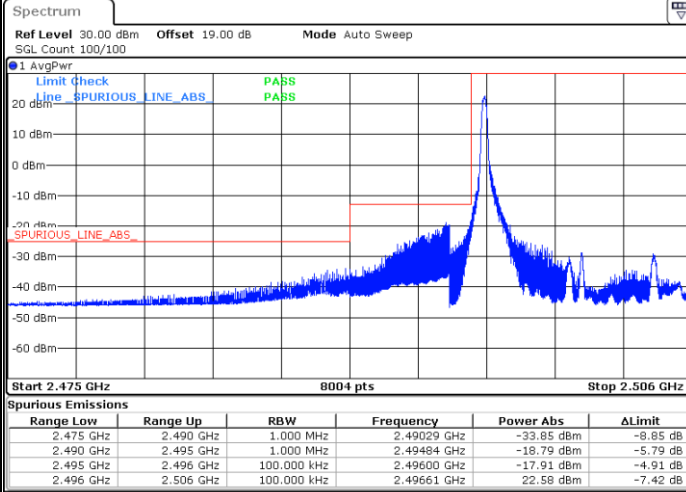


Date: 31 AUG. 2024 14:18:42



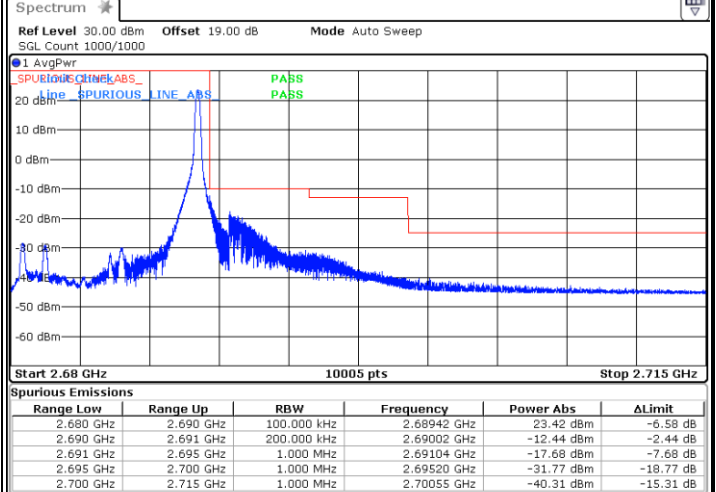
LTE Band 41 / 10MHz / 16QAM

Lowest Band Edge / 1RB



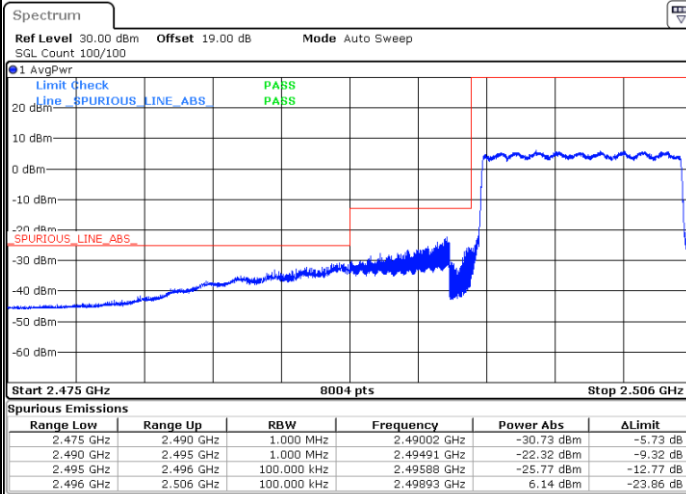
Date: 31 AUG.2024 14:06:35

Highest Band Edge / 1 RB



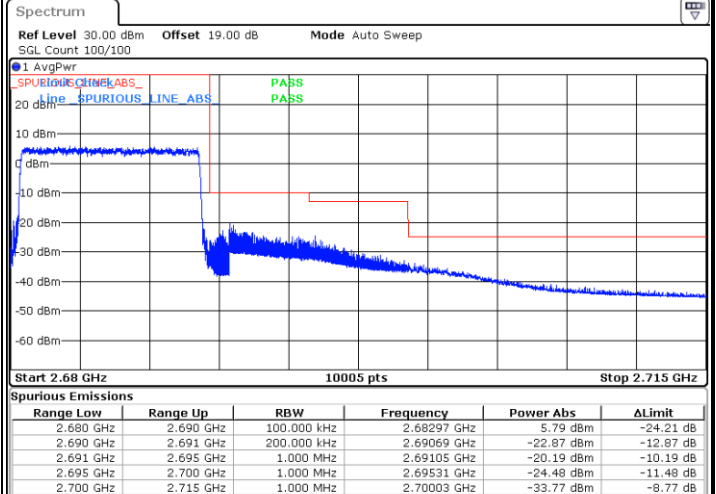
Date: 6.SEP.2024 09:35:01

Lowest Band Edge / Full RB



Date: 31 AUG.2024 14:09:08

Highest Band Edge / Full RB

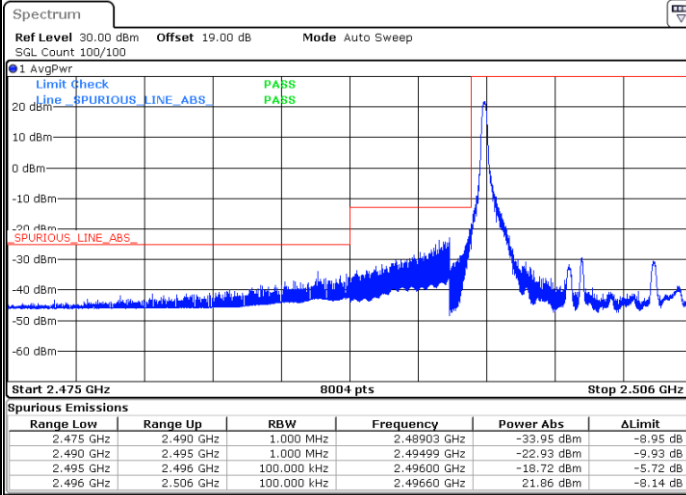


Date: 31 AUG.2024 14:17:51



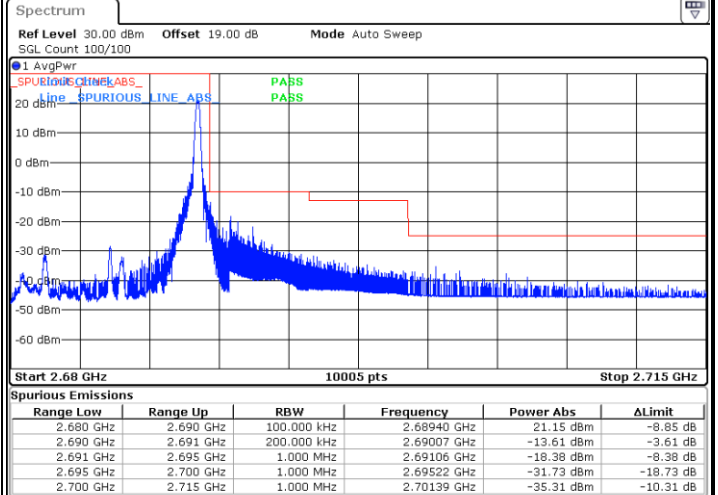
LTE Band 41 / 10MHz / 64QAM

Lowest Band Edge / 1RB



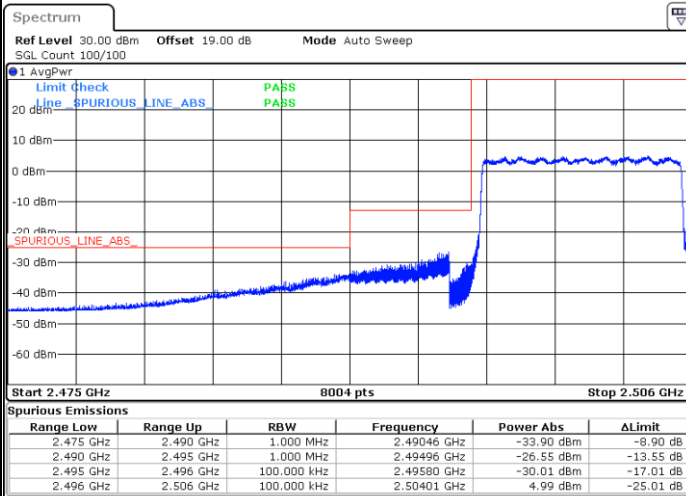
Date: 31 AUG. 2024 14:07:26

Highest Band Edge / 1 RB



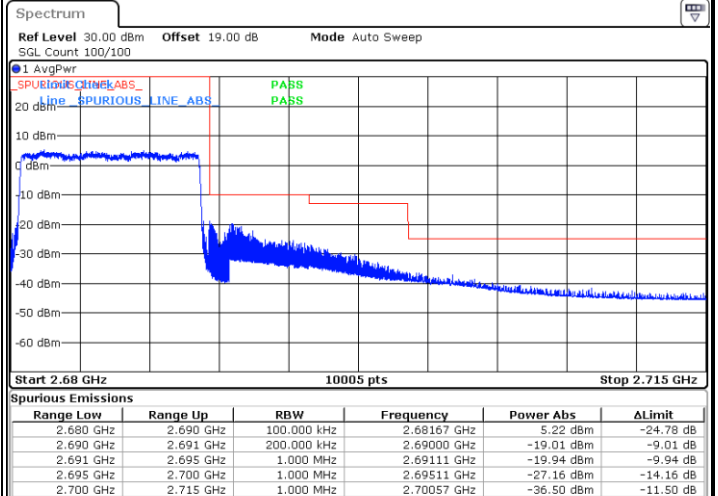
Date: 31 AUG. 2024 14:16:09

Lowest Band Edge / Full RB



Date: 31 AUG. 2024 14:08:17

Highest Band Edge / Full RB



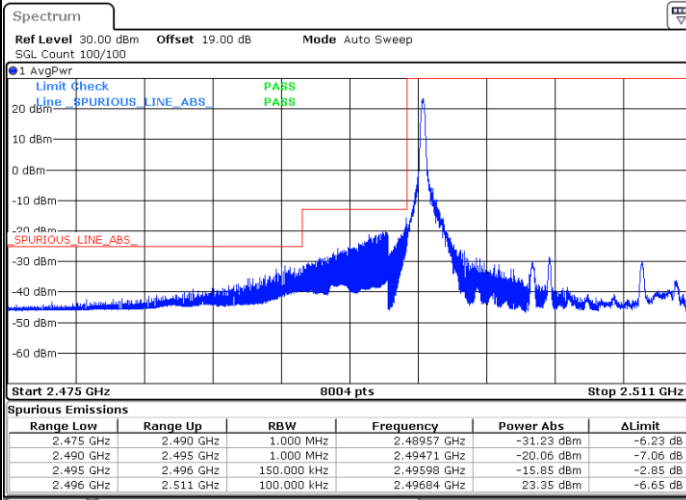
Date: 31 AUG. 2024 14:17:00





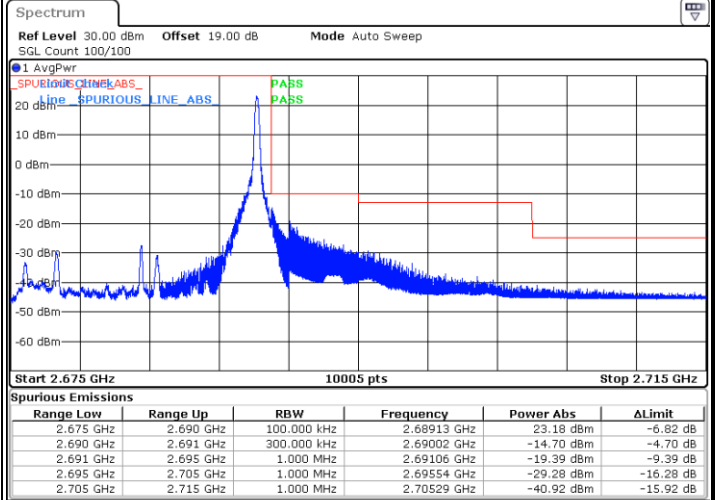
LTE Band 41 / 15MHz / QPSK

Lowest Band Edge / 1 RB



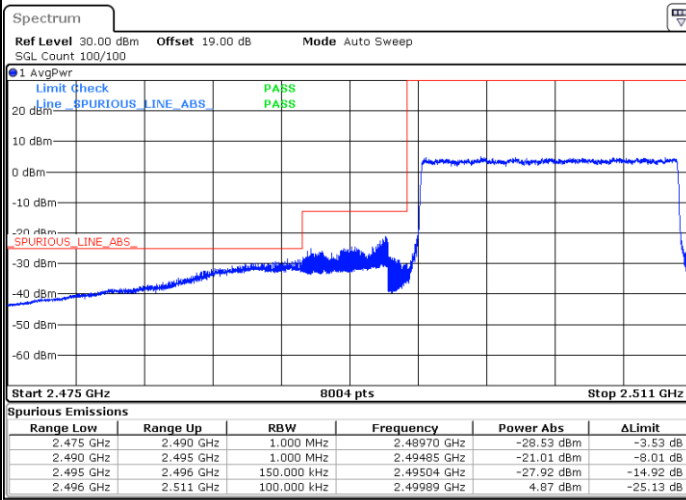
Date: 31 AUG. 2024 14:21:25

Highest Band Edge / 1 RB



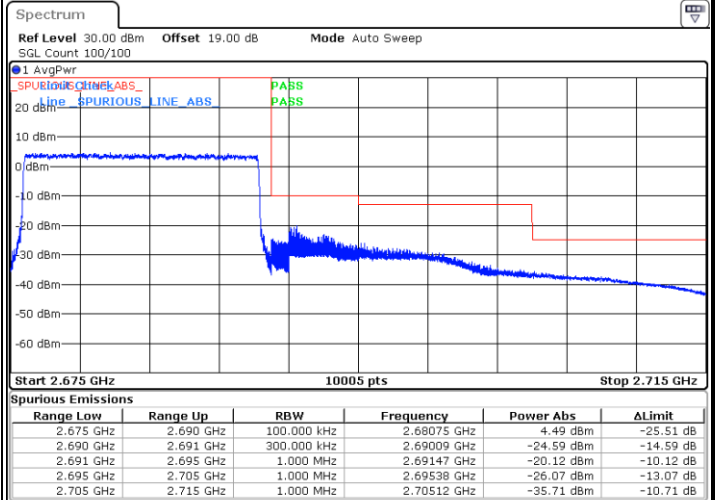
Date: 31 AUG. 2024 14:30:11

Lowest Band Edge / Full RB



Date: 31 AUG. 2024 14:25:40

Highest Band Edge / Full RB

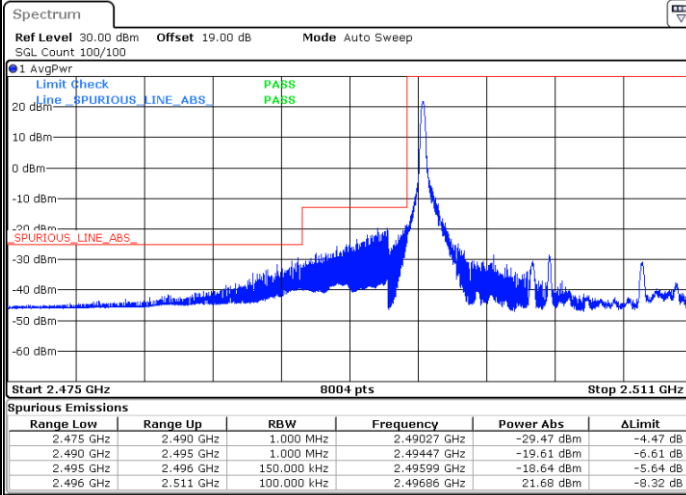


Date: 31 AUG. 2024 14:34:39



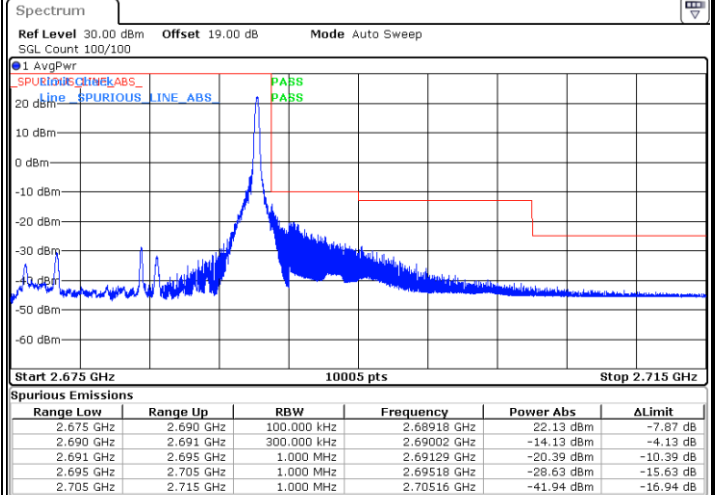
LTE Band 41 / 15MHz / 16QAM

Lowest Band Edge / 1RB



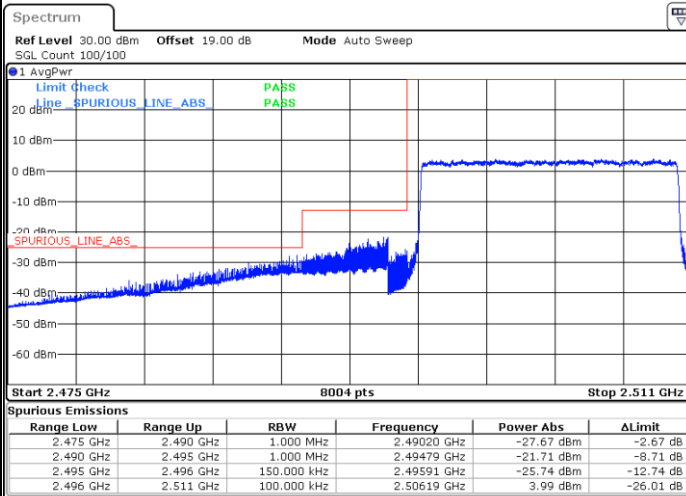
Date: 31 AUG 2024 14:22:16

Highest Band Edge / 1 RB



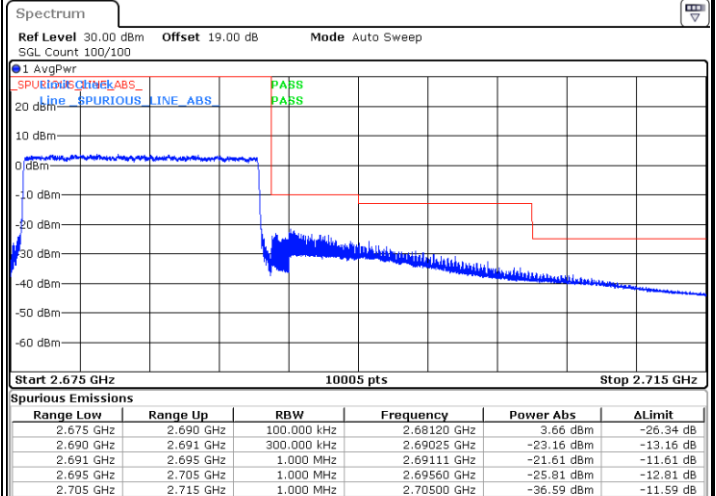
Date: 31 AUG 2024 14:31:04

Lowest Band Edge / Full RB



Date: 31 AUG 2024 14:24:49

Highest Band Edge / Full RB

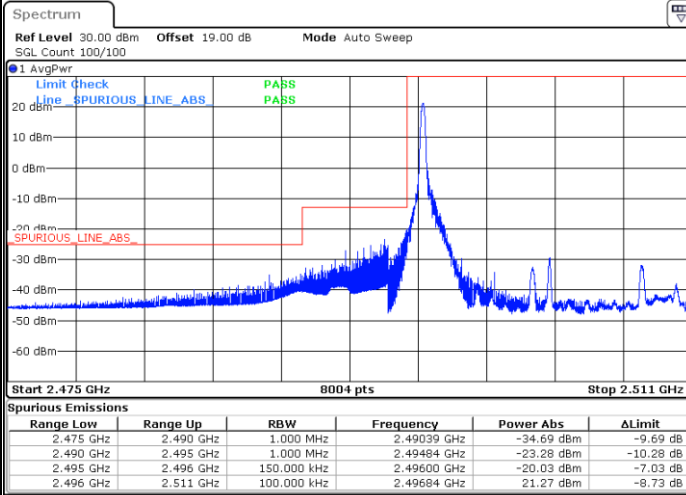


Date: 31 AUG 2024 14:33:45



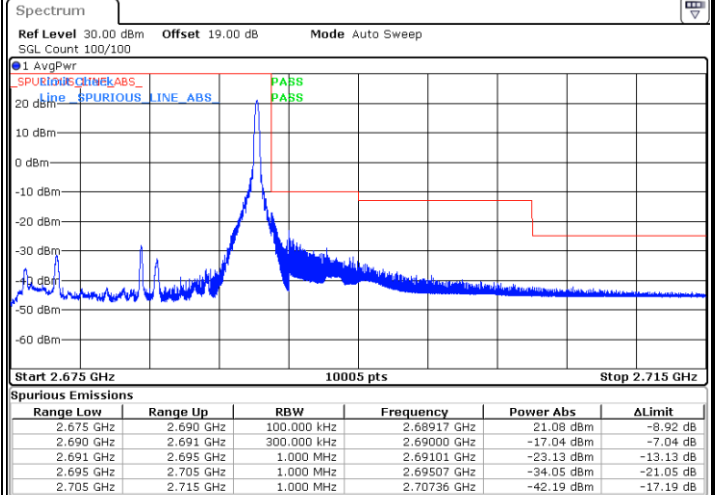
LTE Band 41 / 15MHz / 64QAM

Lowest Band Edge / 1RB



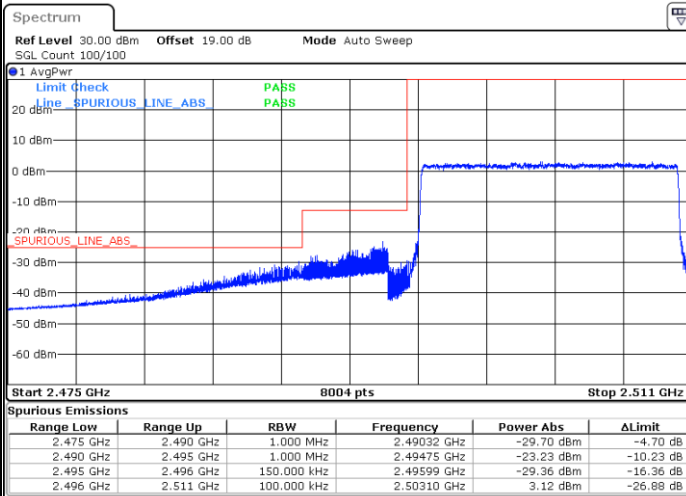
Date: 31 AUG.2024 14:23:07

Highest Band Edge / 1 RB



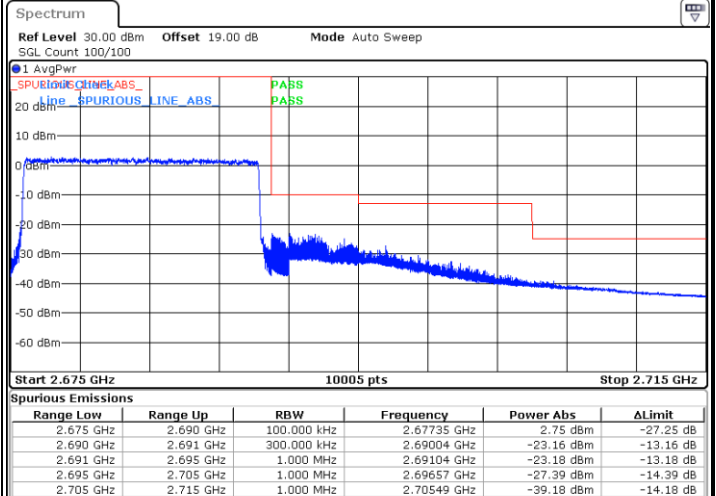
Date: 31 AUG.2024 14:31:58

Lowest Band Edge / Full RB



Date: 31 AUG.2024 14:23:58

Highest Band Edge / Full RB

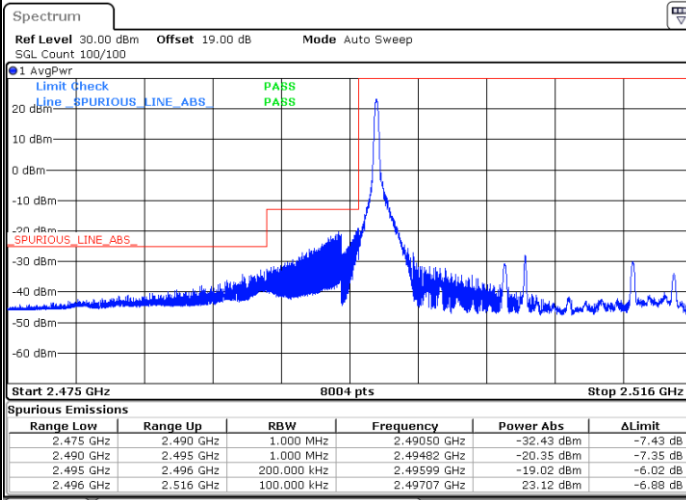


Date: 31 AUG.2024 14:32:51



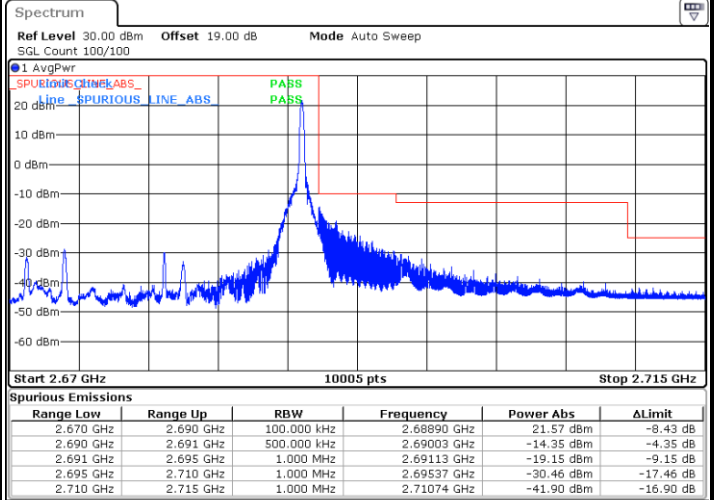
LTE Band 41 / 20MHz / QPSK

Lowest Band Edge / 1 RB



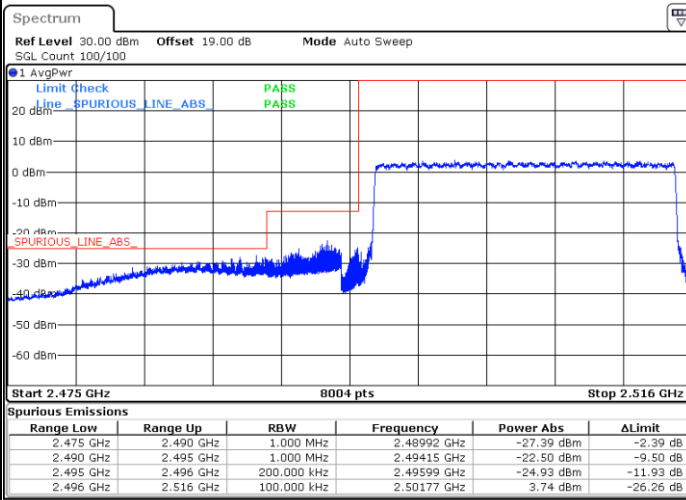
Date: 31 AUG. 2024 14:37:23

Highest Band Edge / 1 RB



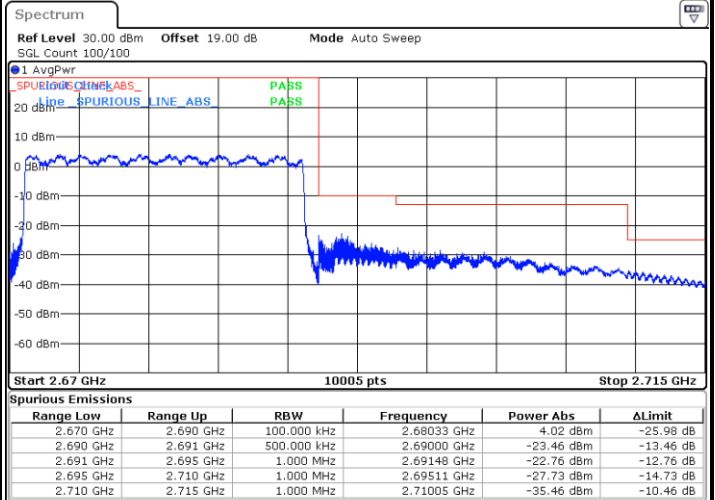
Date: 31 AUG. 2024 14:47:29

Lowest Band Edge / Full RB



Date: 31 AUG. 2024 14:41:38

Highest Band Edge / Full RB

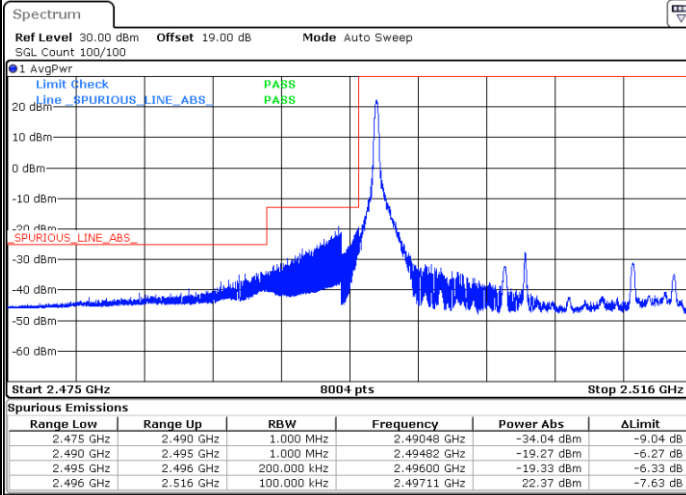


Date: 31 AUG. 2024 14:51:58



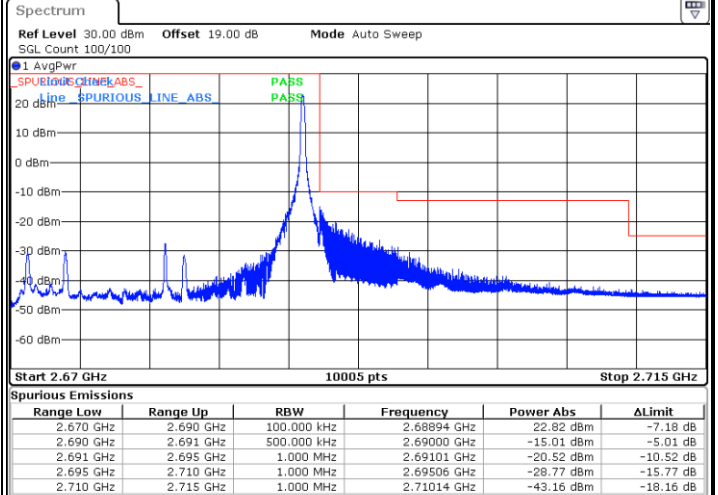
LTE Band 41 / 20MHz / 16QAM

Lowest Band Edge / 1RB



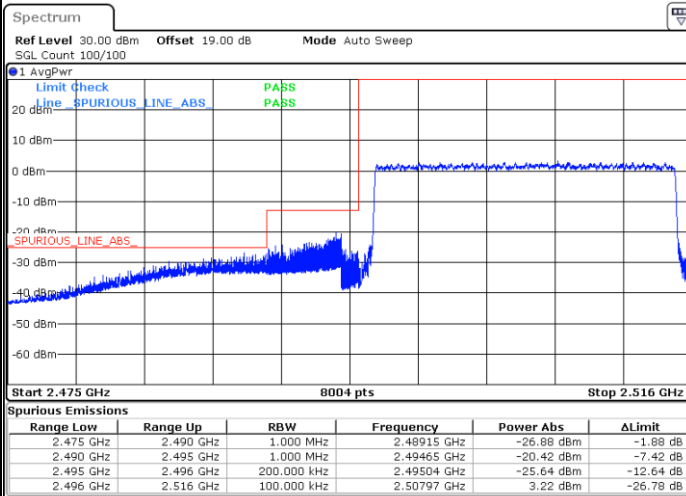
Date: 31 AUG.2024 14:38:14

Highest Band Edge / 1 RB



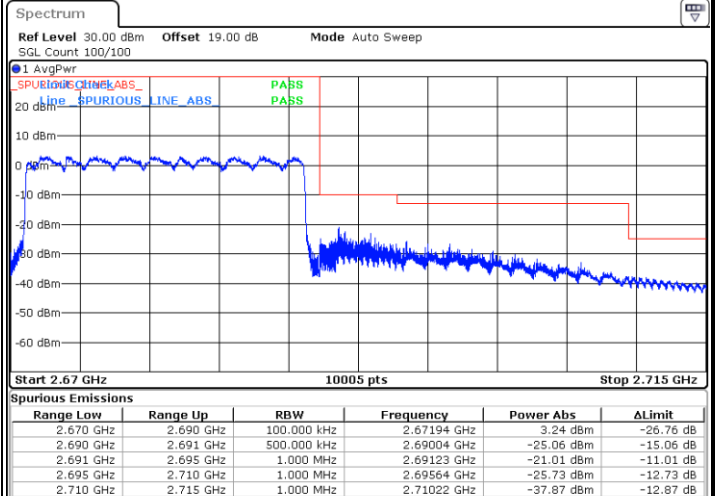
Date: 31 AUG.2024 14:48:22

Lowest Band Edge / Full RB



Date: 31 AUG.2024 14:40:47

Highest Band Edge / Full RB

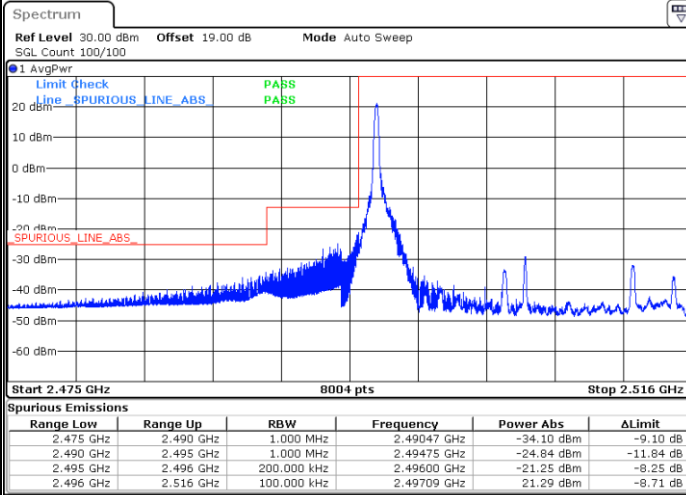


Date: 31 AUG.2024 14:51:04



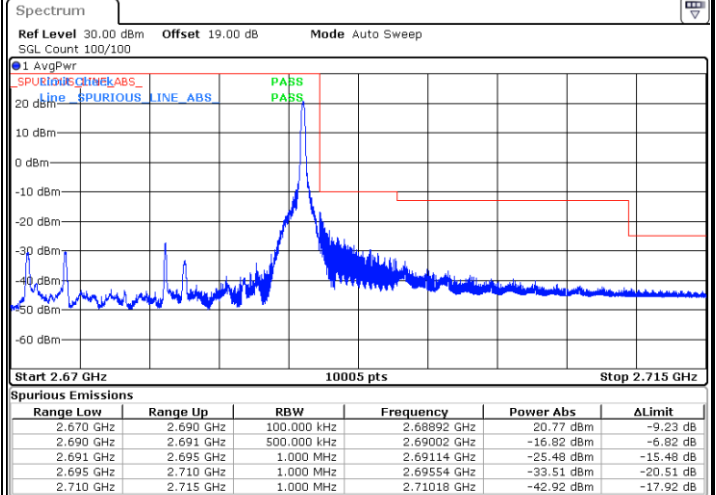
LTE Band 41 / 20MHz / 64QAM

Lowest Band Edge / 1RB



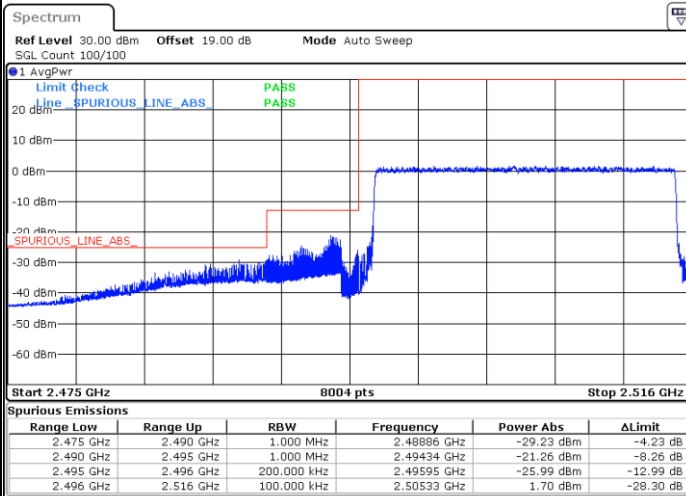
Date: 31 AUG.2024 14:39:04

Highest Band Edge / 1 RB



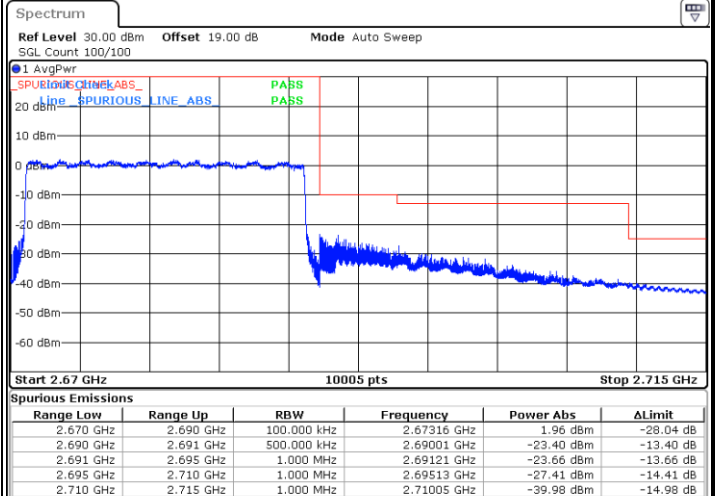
Date: 31 AUG.2024 14:49:16

Lowest Band Edge / Full RB



Date: 31 AUG.2024 14:39:56

Highest Band Edge / Full RB



Date: 31 AUG.2024 14:50:10

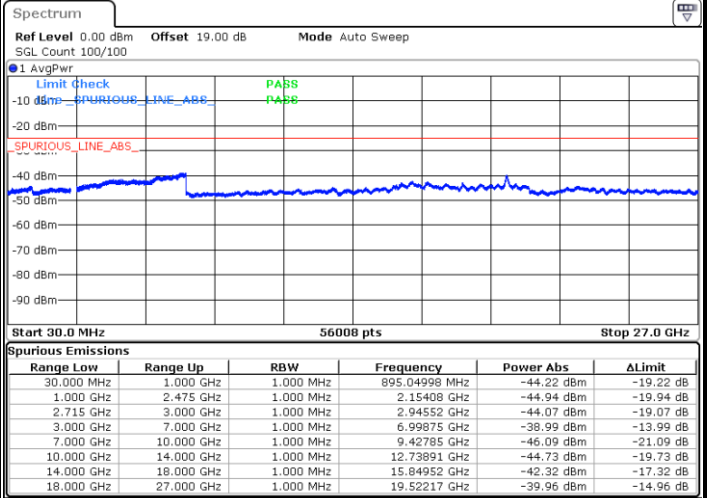
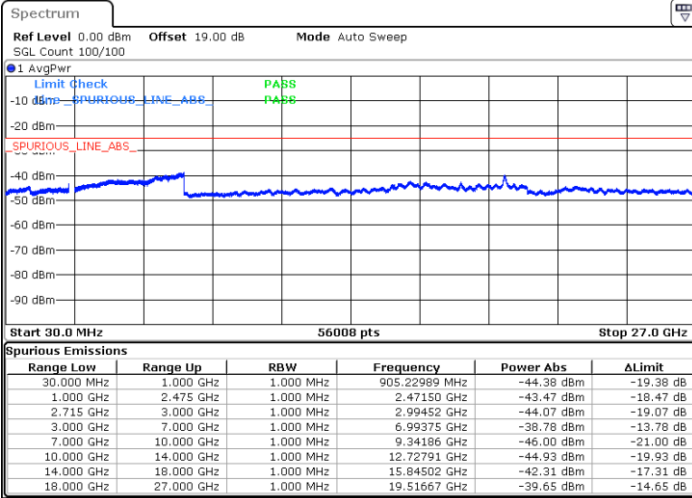


# Conducted Spurious Emission

## LTE Band 41 / 5MHz

### Lowest Channel / QPSK

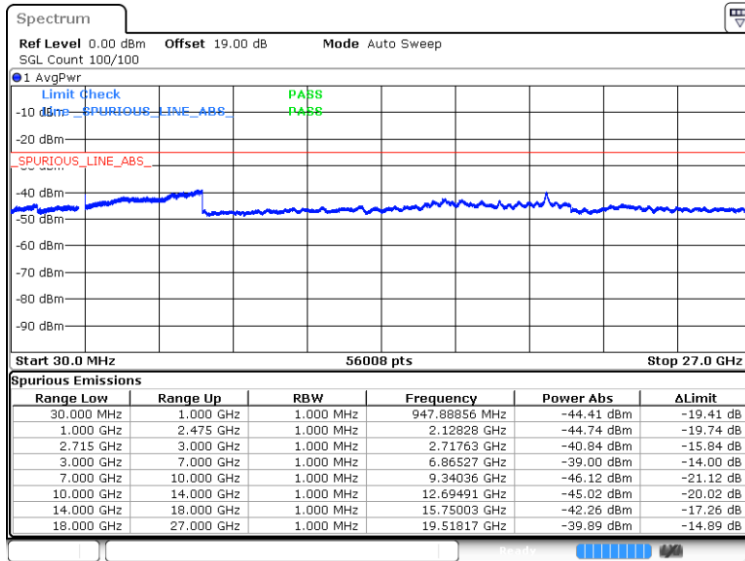
### Middle Channel / QPSK



Date: 31 AUG 2024 13:54:13

Date: 31 AUG 2024 13:55:22

### Highest Channel / QPSK



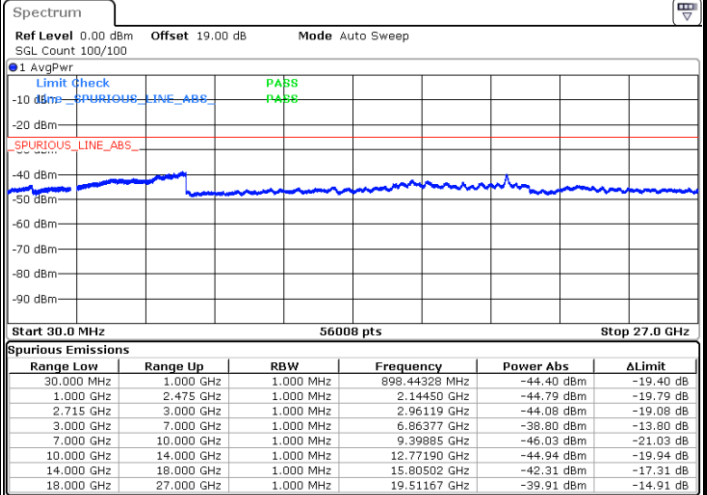
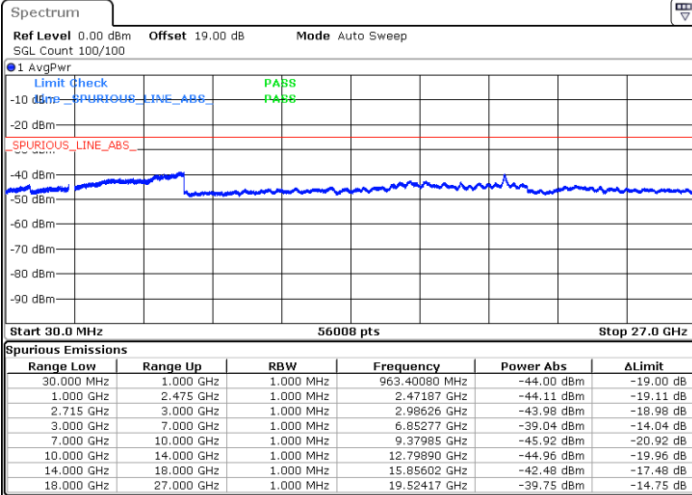
Date: 31 AUG 2024 14:04:10



LTE Band 41 / 10MHz

Lowest Channel / QPSK

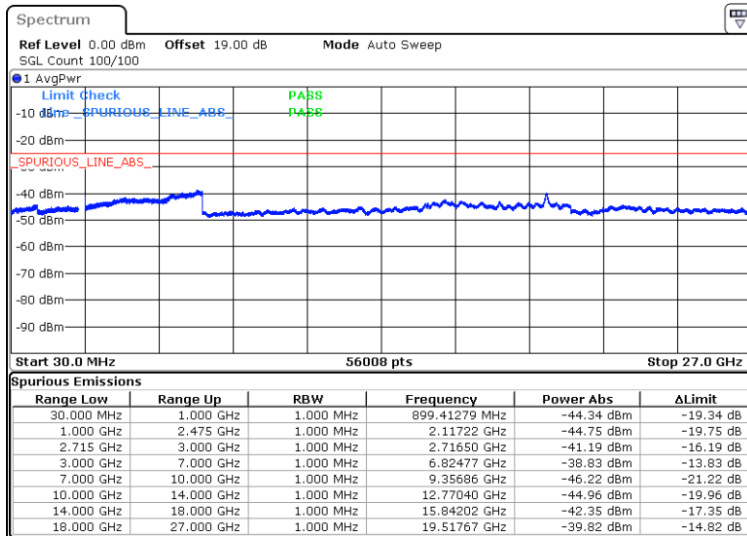
Middle Channel / QPSK



Date: 31.AUG.2024 14:11:10

Date: 31.AUG.2024 14:12:19

Highest Channel / QPSK



Date: 31.AUG.2024 14:19:51

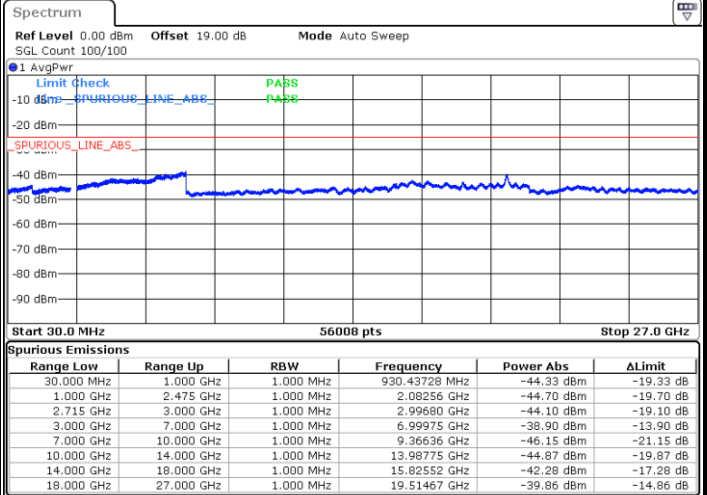
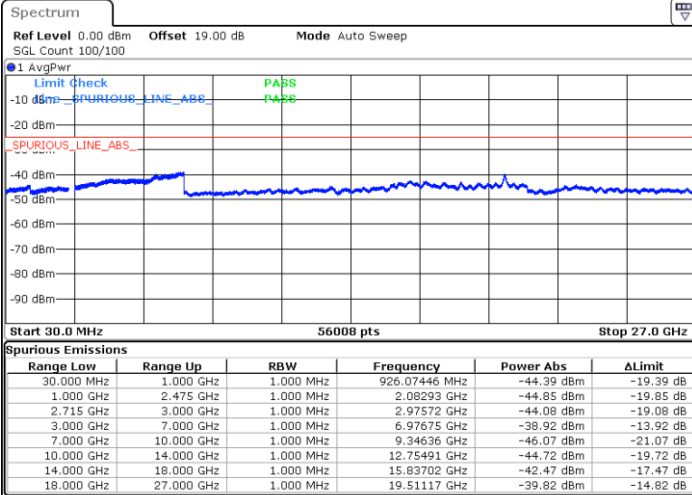




LTE Band 41 / 15MHz

Lowest Channel / QPSK

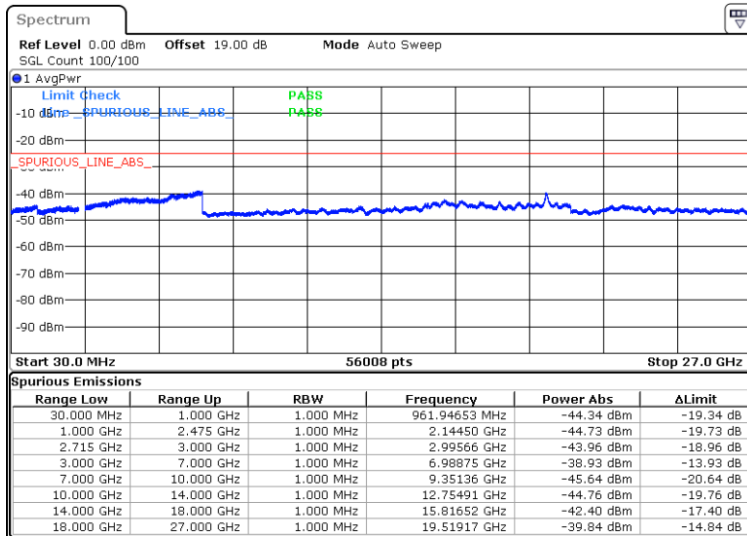
Middle Channel / QPSK



Date: 31.AUG.2024 14:26:50

Date: 31.AUG.2024 14:27:59

Highest Channel / QPSK



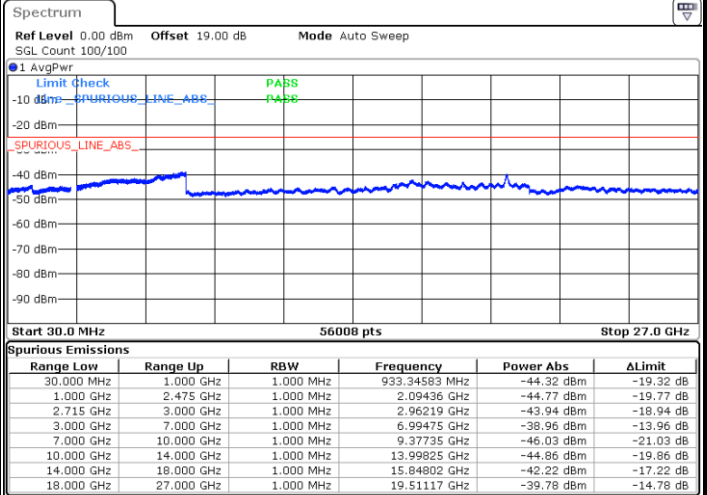
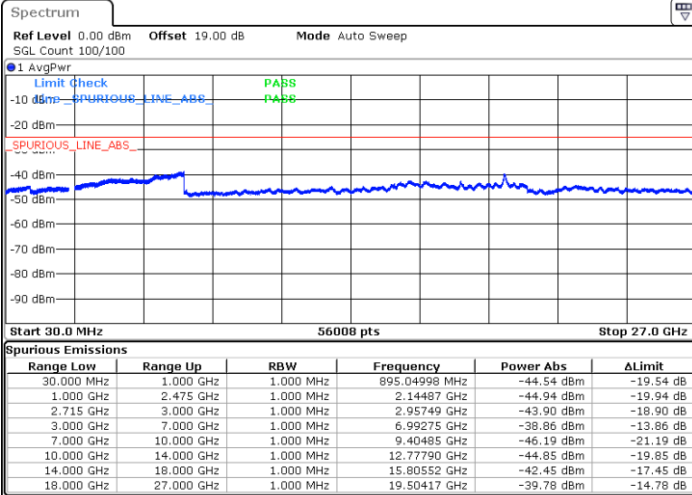
Date: 31.AUG.2024 14:35:49



LTE Band 41 / 20MHz

Lowest Channel / QPSK

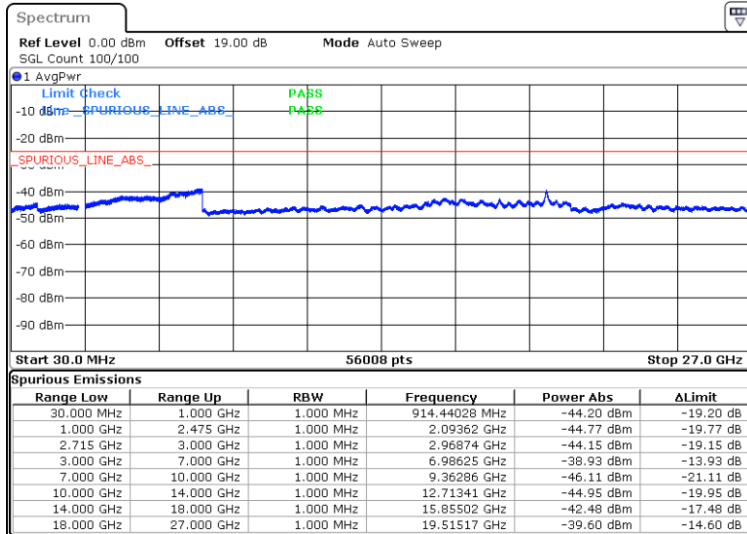
Middle Channel / QPSK



Date: 31.AUG.2024 14:42:48

Date: 31.AUG.2024 14:43:57

Highest Channel / QPSK



Date: 31.AUG.2024 14:53:08



### 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	0.0007	
30	Normal Voltage	0.0005	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0042	
0	Normal Voltage	0.0052	
-10	Normal Voltage	0.0016	
-20	Normal Voltage	0.0051	
-30	Normal Voltage	0.0029	
20	Maximum Voltage	0.0028	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0036	

**Note:**

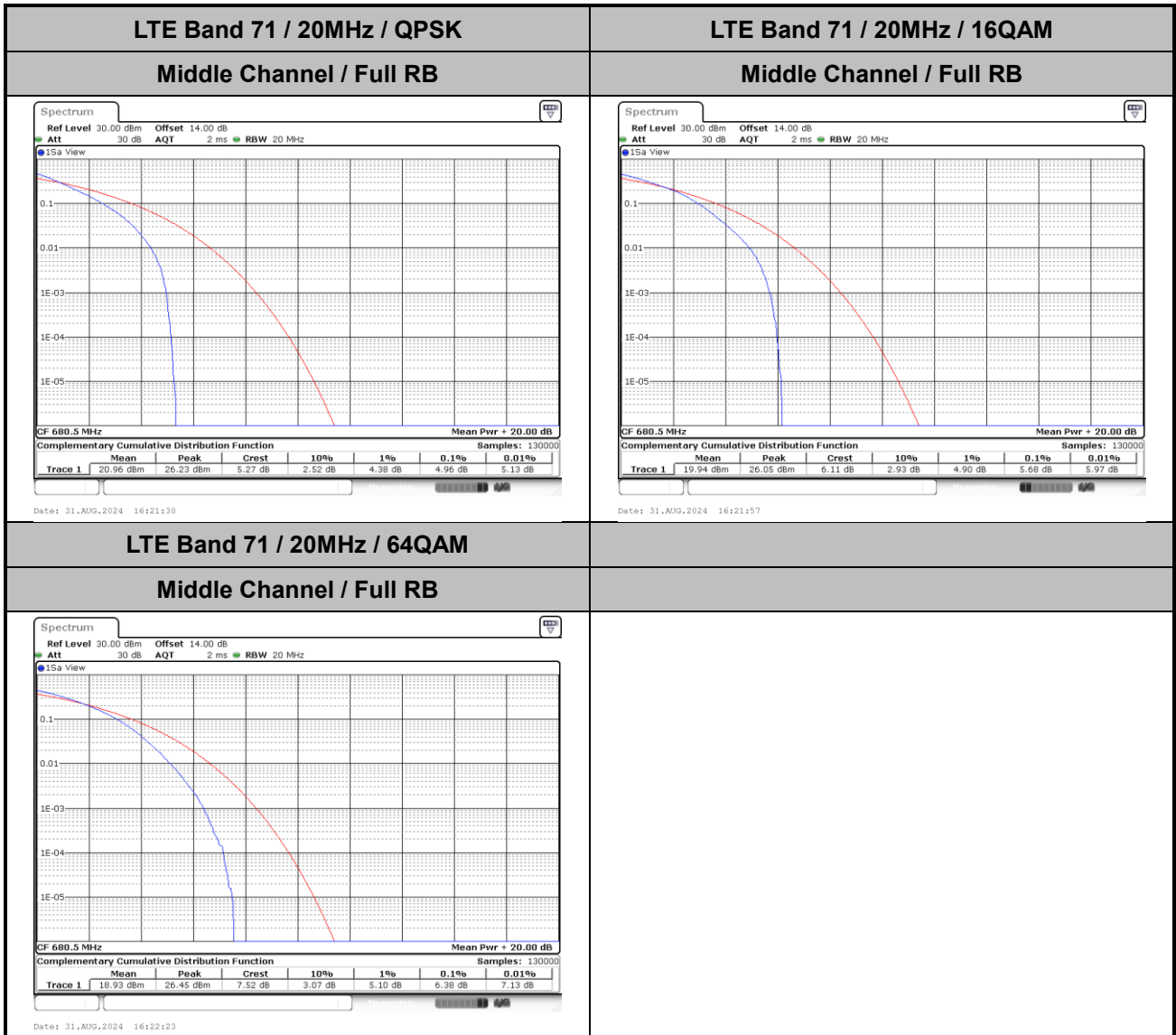
1. Normal Voltage = 3.91 V. ; Battery End Point (BEP) = 3.45 V. ; Maximum Voltage = 4.50 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



# 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	4.96	5.68	6.38	PASS





# 26dB Bandwidth

Mode	LTE Band 71 : 26dB BW(MHz)							
	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	4.87	4.87	9.77	9.97	14.30	14.48	18.98	19.14

