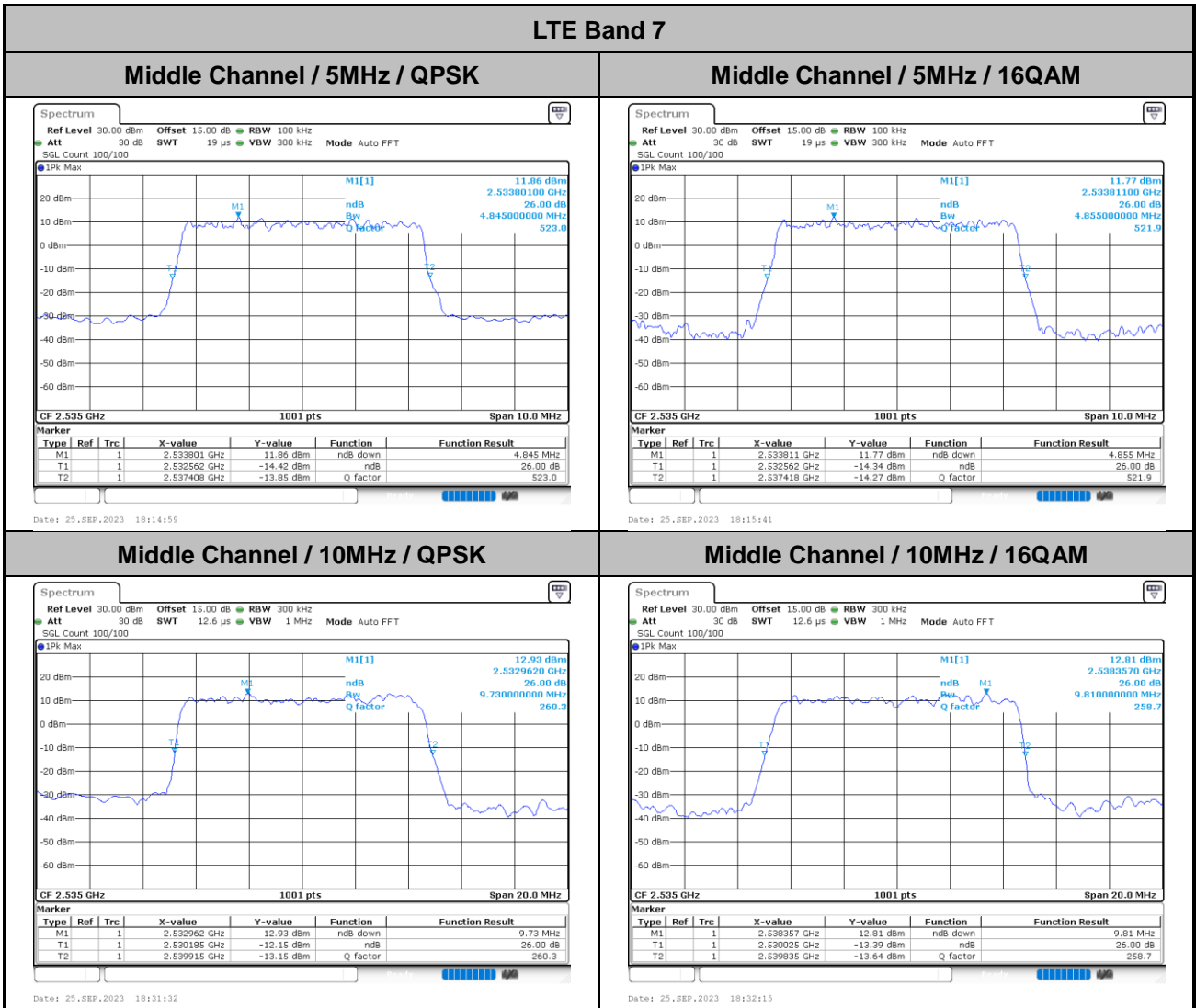




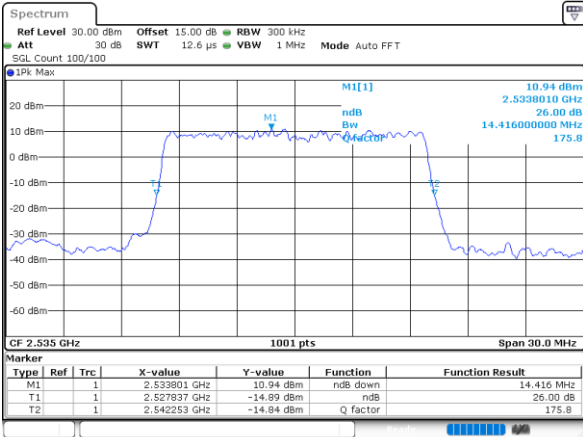
# 26dB Bandwidth

Mode	LTE Band 7 : 26dB BW(MHz)											
	-		-		5MHz		10MHz		15MHz		20MHz	
BW	-		-		5MHz	10MHz	10MHz	10MHz	15MHz	15MHz	20MHz	20MHz
Mod.	-		-		QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-		-		4.85	4.86	9.73	9.81	14.42	14.45	18.90	19.06



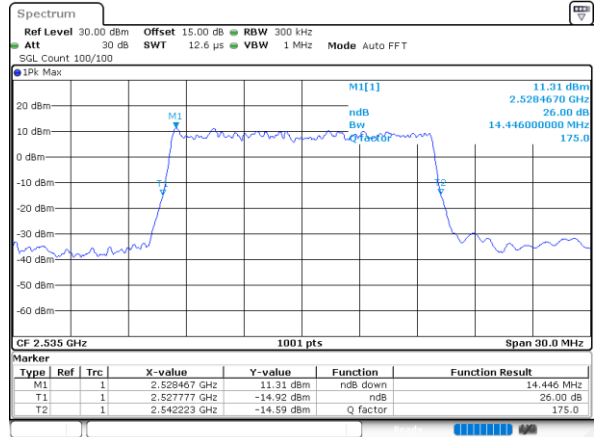


Middle Channel / 15MHz / QPSK



Date: 25\_SEP.2023 18:48:08

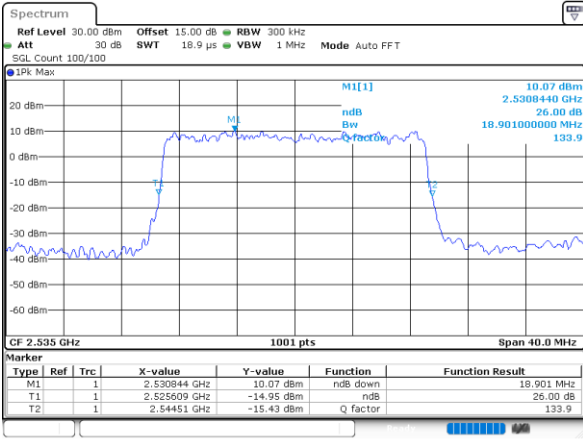
Middle Channel / 15MHz / 16QAM



Date: 25\_SEP.2023 18:48:50

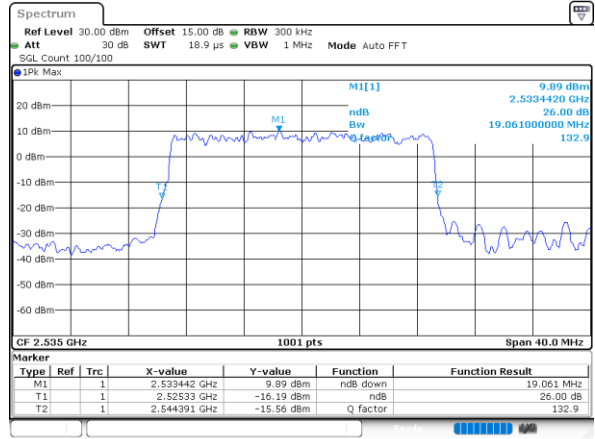
LTE Band 7

Middle Channel / 20MHz / QPSK



Date: 25\_SEP.2023 19:04:43

Middle Channel / 20MHz / 16QAM

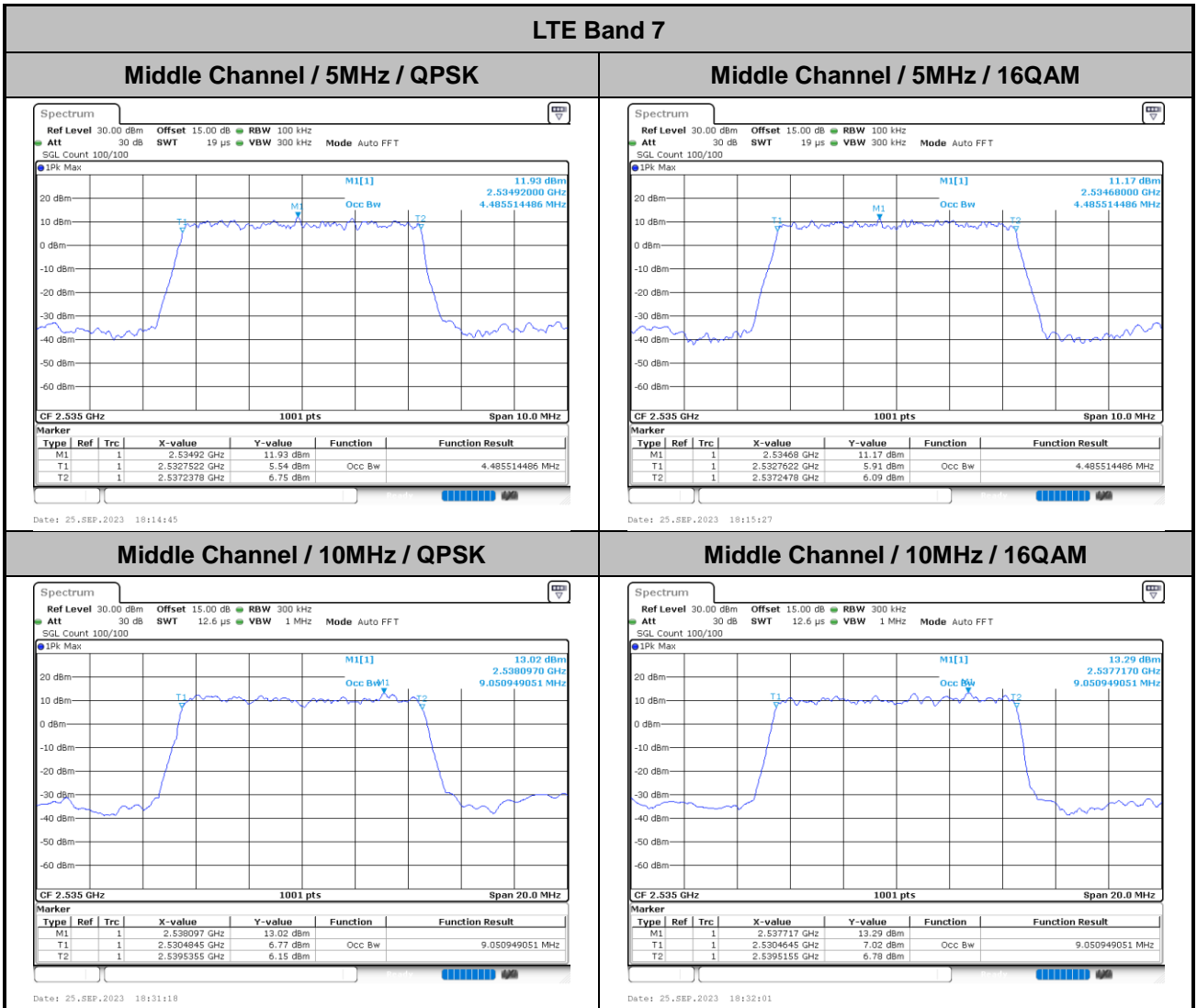


Date: 25\_SEP.2023 19:05:26



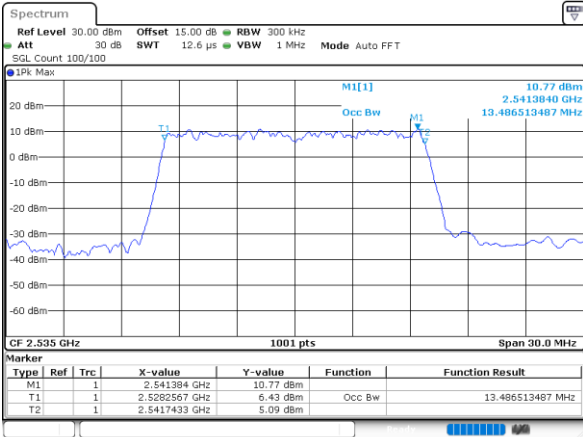
# Occupied Bandwidth

Mode	LTE Band 7 : 99%OBW(MHz)											
	-				5MHz		10MHz		15MHz		20MHz	
BW	-	-	-	-	5MHz	10MHz	5MHz	10MHz	15MHz	15MHz	20MHz	20MHz
Mod.	-	-	-	-	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	4.49	4.49	9.05	9.05	13.49	13.43	17.86	17.98

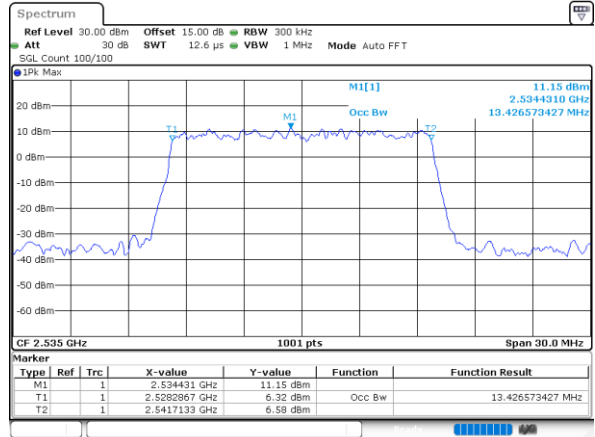




Middle Channel / 15MHz / QPSK

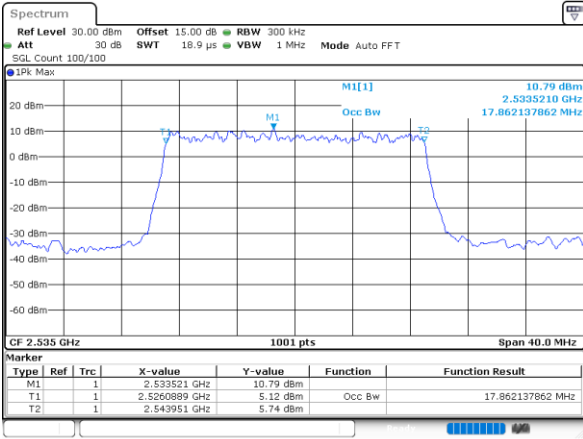


Middle Channel / 15MHz / 16QAM

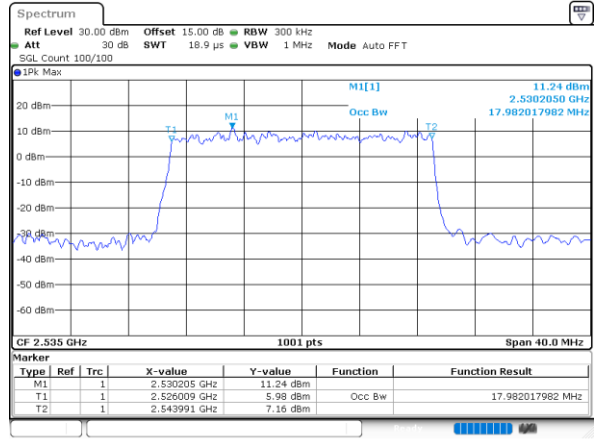


LTE Band 7

Middle Channel / 20MHz / QPSK



Middle Channel / 20MHz / 16QAM

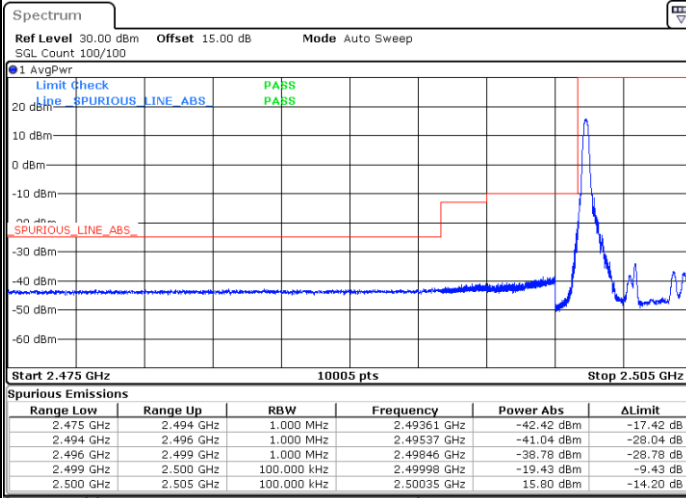




# Conducted Band Edge

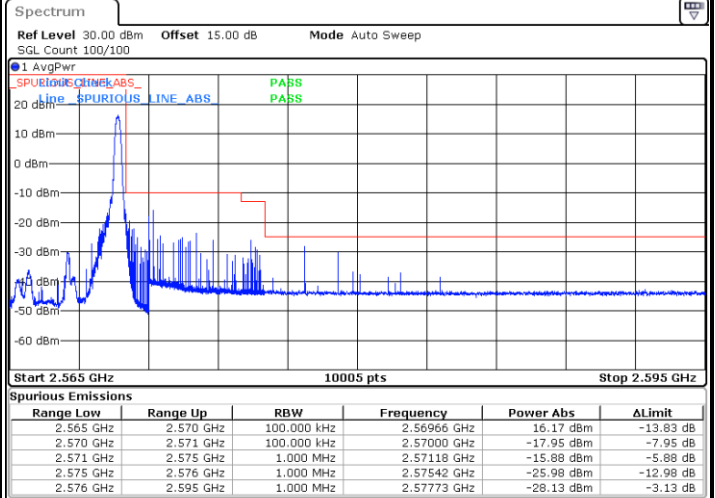
## LTE Band 7 / 5MHz / QPSK

### Lowest Band Edge / 1 RB



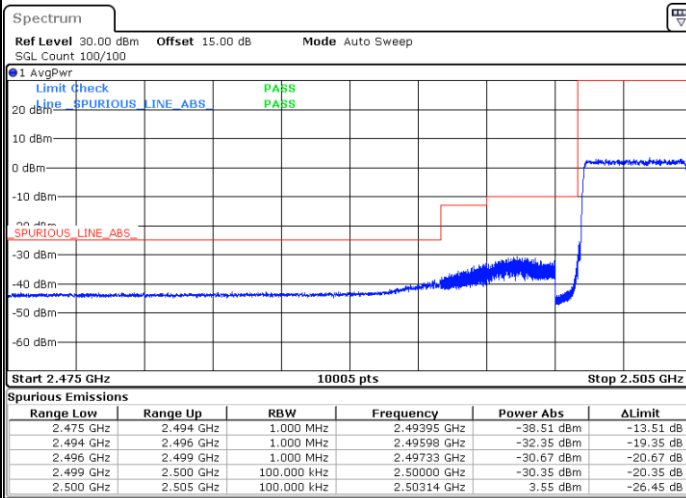
Date: 25.SEP.2023 18:07:52

### Highest Band Edge / 1 RB



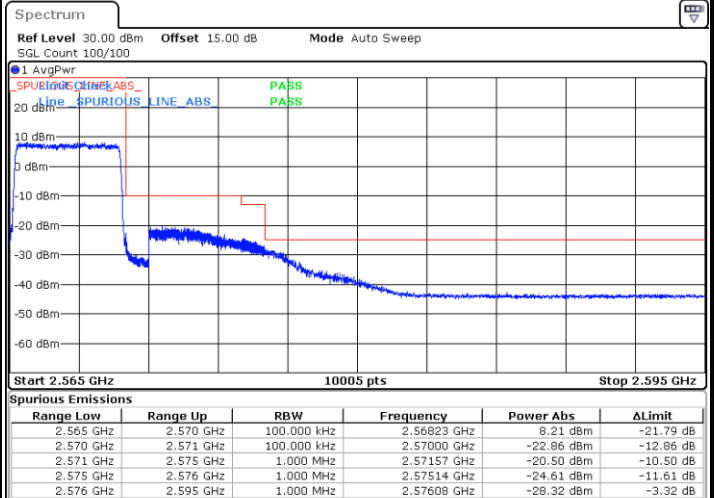
Date: 25.SEP.2023 18:16:30

### Lowest Band Edge / Full RB



Date: 25.SEP.2023 18:10:21

### Highest Band Edge / Full RB

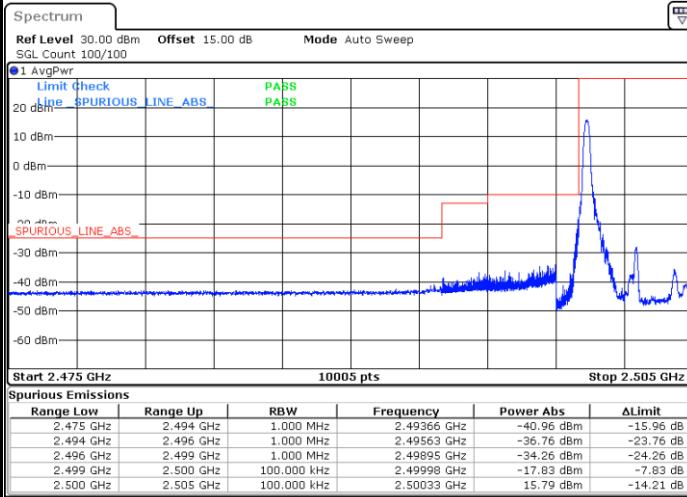


Date: 25.SEP.2023 18:18:57



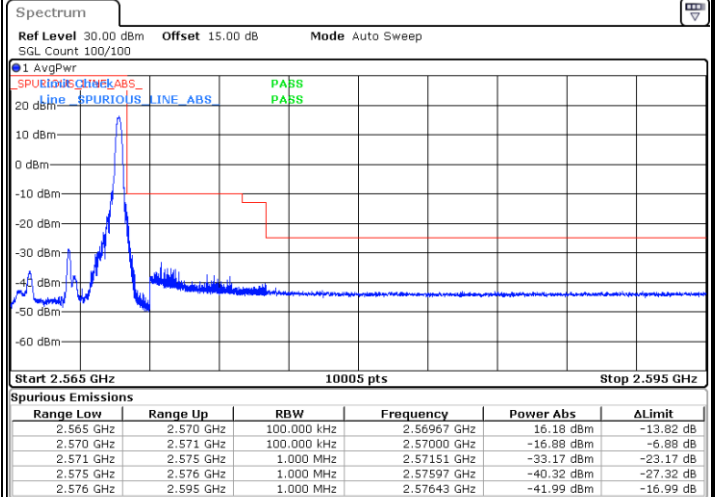
LTE Band 7 / 5MHz / 16QAM

Lowest Band Edge / 1RB



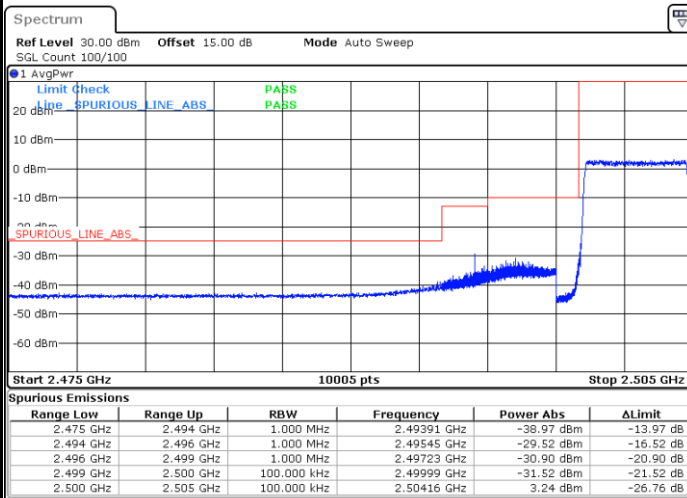
Date: 25.SEP.2023 18:08:41

Highest Band Edge / 1 RB



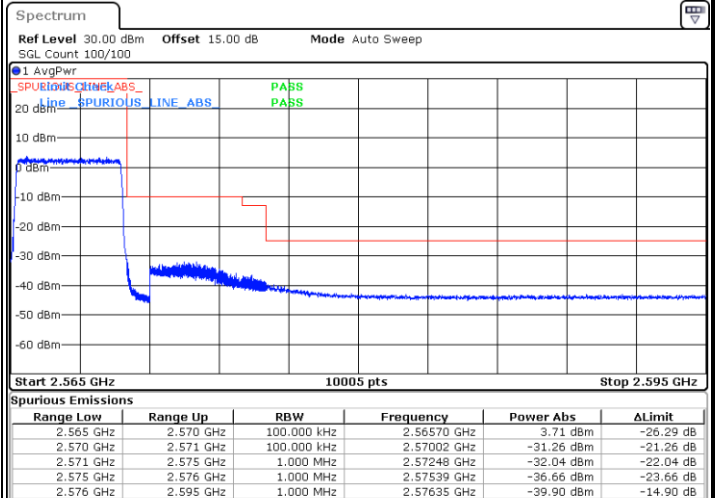
Date: 25.SEP.2023 18:17:19

Lowest Band Edge / Full RB



Date: 25.SEP.2023 18:11:10

Highest Band Edge / Full RB

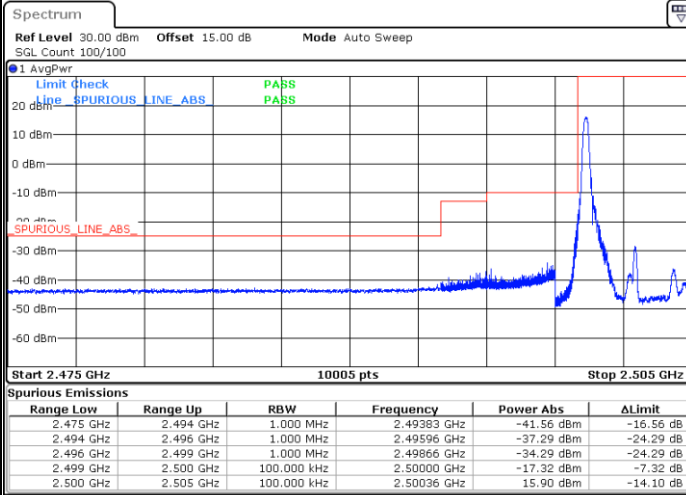


Date: 25.SEP.2023 18:19:46



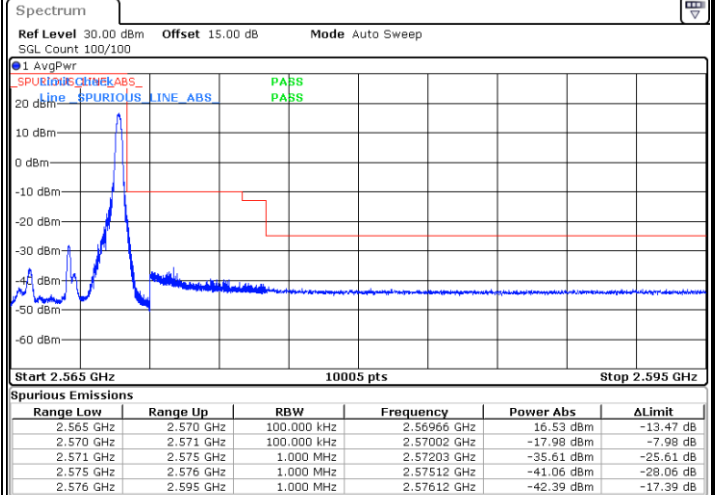
LTE Band 7 / 5MHz / 64QAM

Lowest Band Edge / 1RB



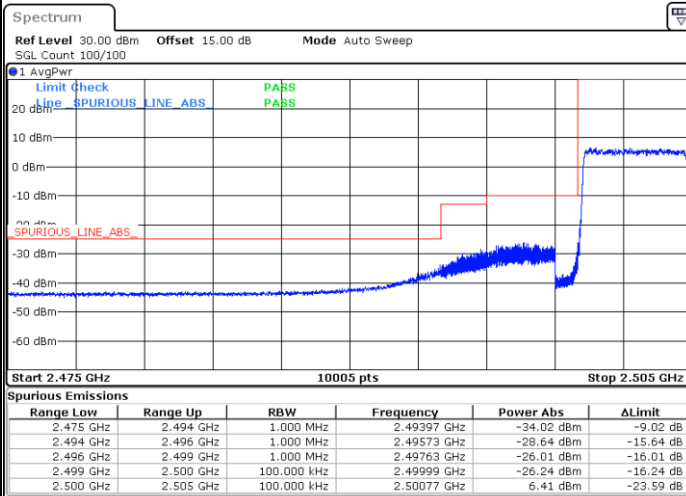
Date: 25.SEP.2023 18:09:31

Highest Band Edge / 1 RB



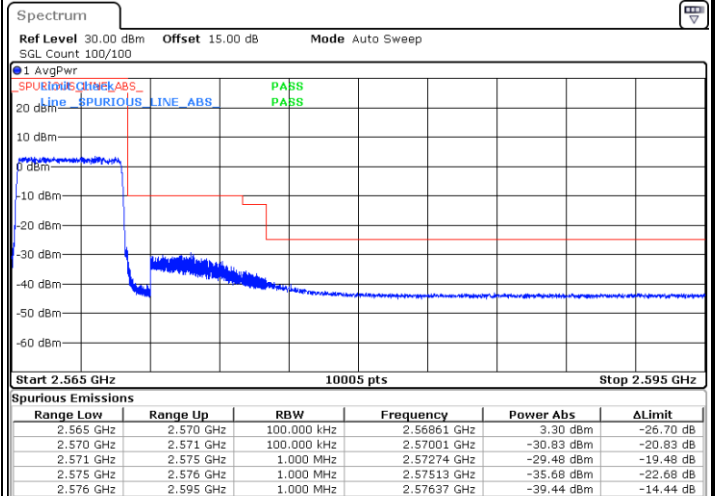
Date: 25.SEP.2023 18:18:08

Lowest Band Edge / Full RB



Date: 25.SEP.2023 18:11:59

Highest Band Edge / Full RB

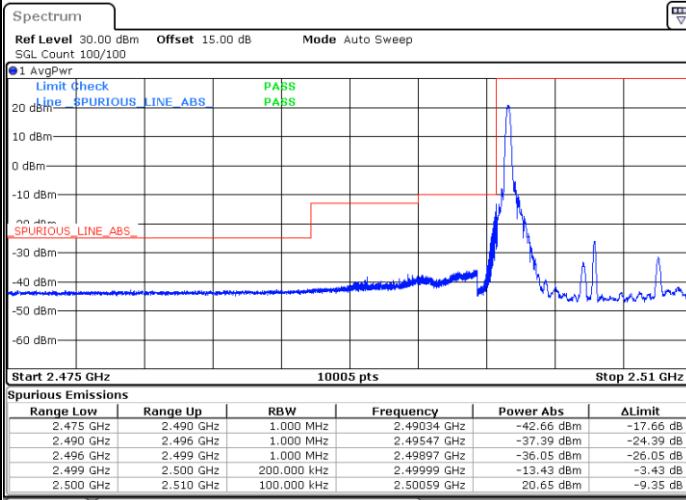


Date: 25.SEP.2023 18:20:35



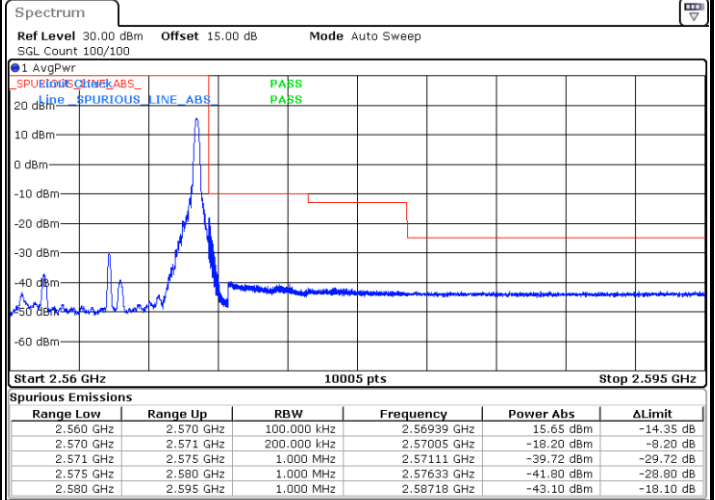
LTE Band 7 / 10MHz / QPSK

Lowest Band Edge / 1 RB



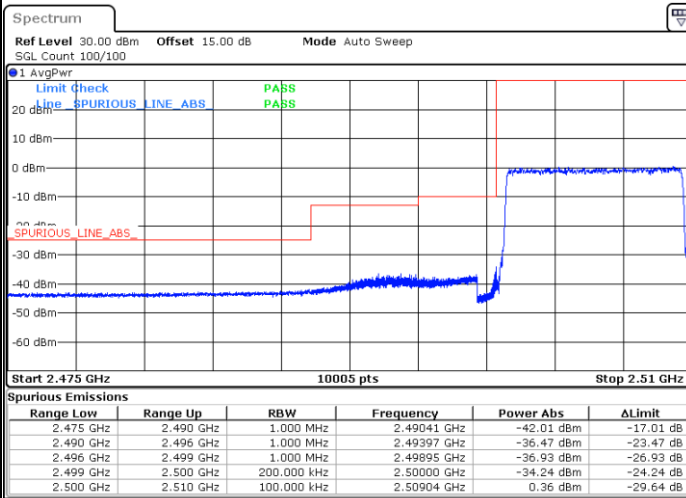
Date: 25.SEP.2023 18:24:27

Highest Band Edge / 1 RB



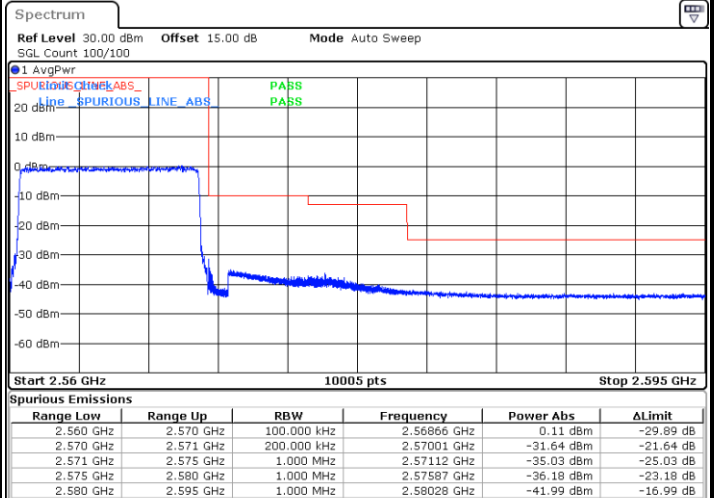
Date: 25.SEP.2023 18:33:03

Lowest Band Edge / Full RB



Date: 25.SEP.2023 18:26:55

Highest Band Edge / Full RB



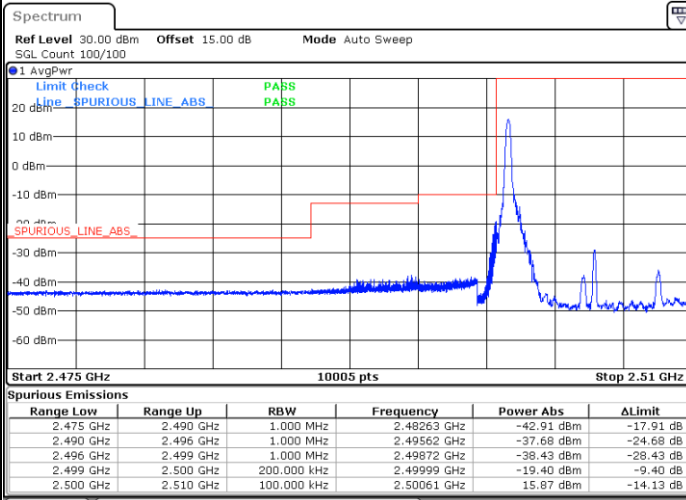
Date: 25.SEP.2023 18:35:31





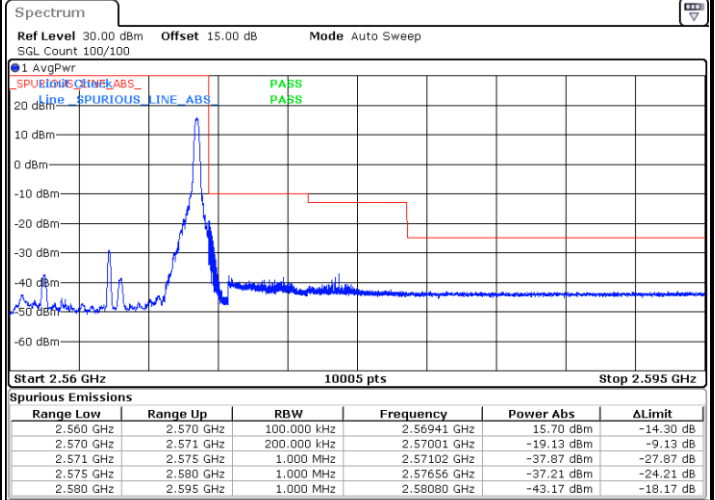
LTE Band 7 / 10MHz / 16QAM

Lowest Band Edge / 1RB



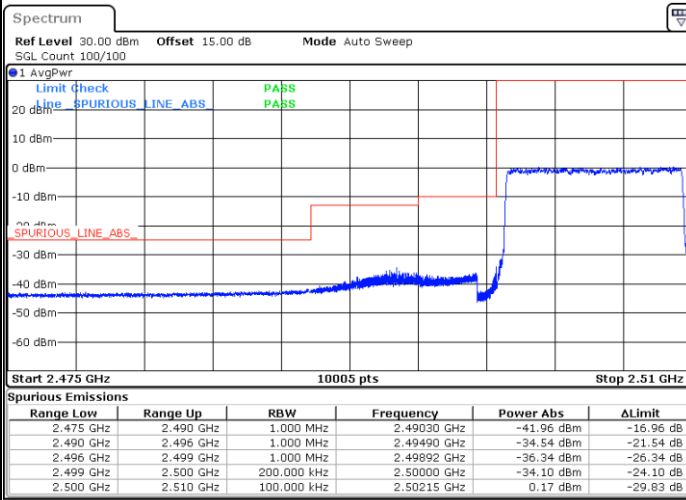
Date: 25.SEP.2023 18:25:16

Highest Band Edge / 1 RB



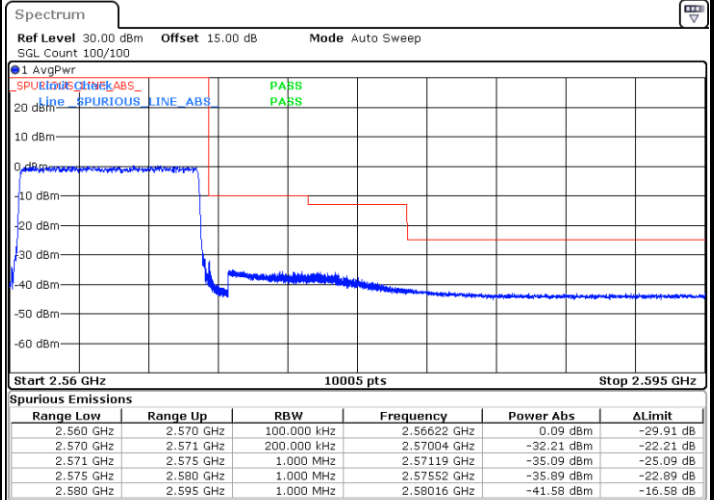
Date: 25.SEP.2023 18:33:52

Lowest Band Edge / Full RB



Date: 25.SEP.2023 18:27:44

Highest Band Edge / Full RB

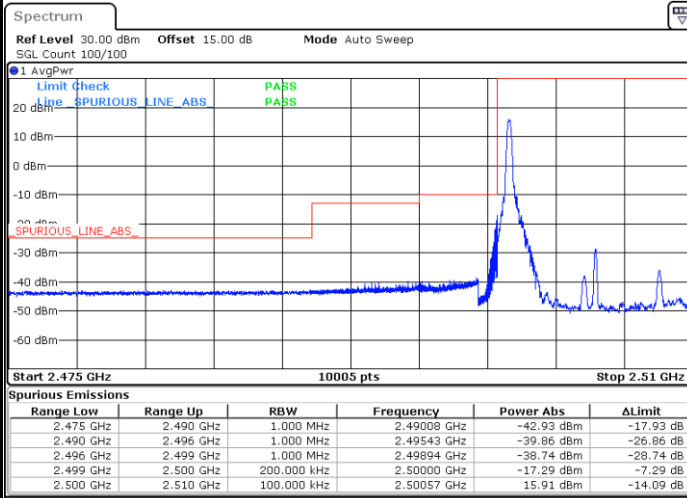


Date: 25.SEP.2023 18:36:20



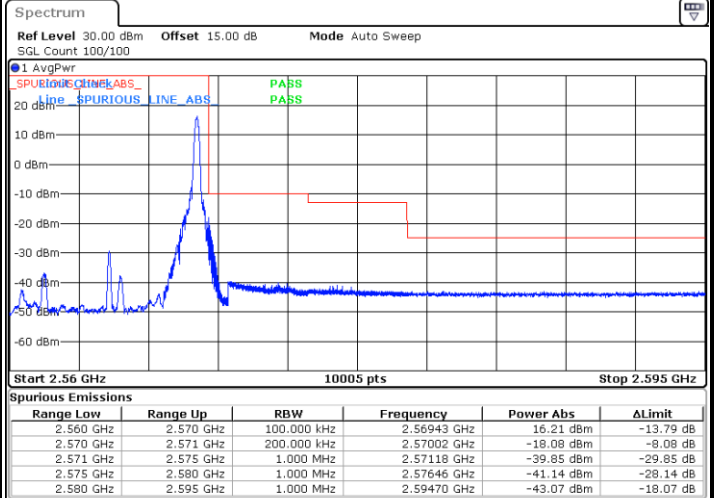
LTE Band 7 / 10MHz / 64QAM

Lowest Band Edge / 1RB



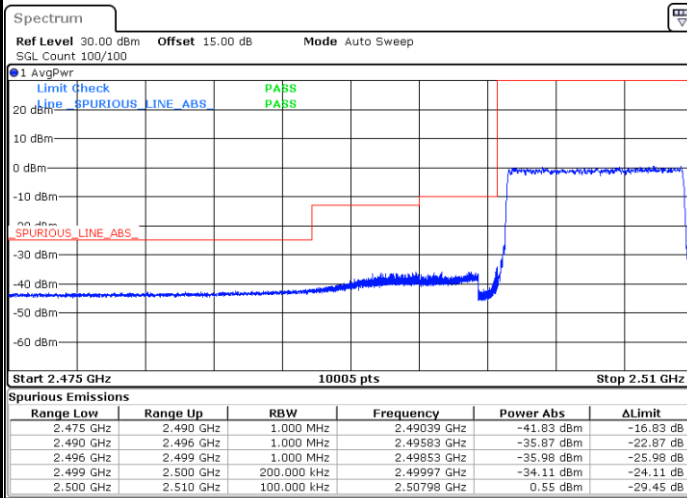
Date: 25.SEP.2023 18:26:05

Highest Band Edge / 1 RB



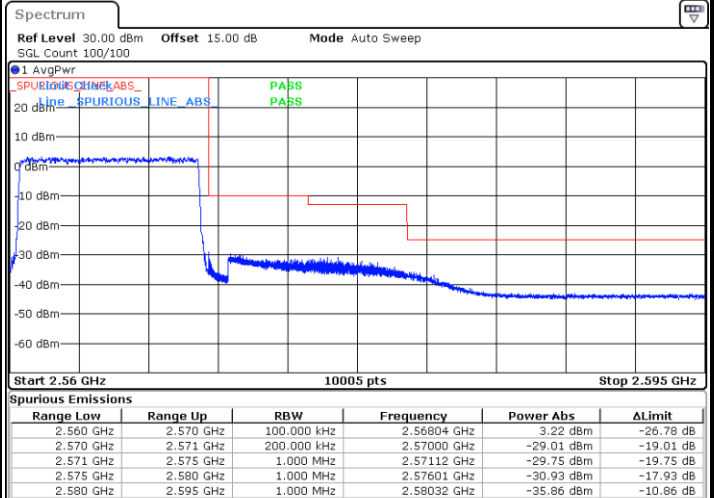
Date: 25.SEP.2023 18:34:42

Lowest Band Edge / Full RB



Date: 25.SEP.2023 18:28:33

Highest Band Edge / Full RB

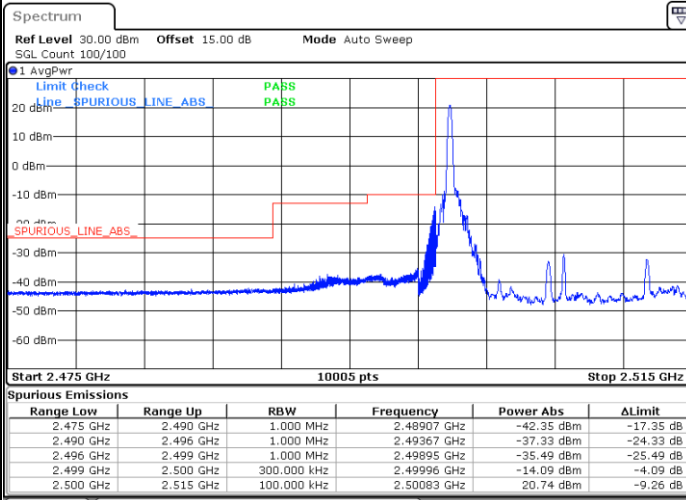


Date: 25.SEP.2023 18:37:09

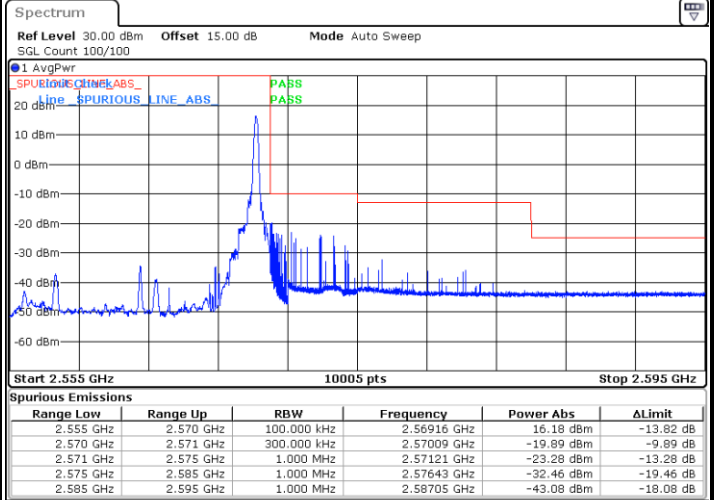


LTE Band 7 / 15MHz / QPSK

Lowest Band Edge / 1 RB



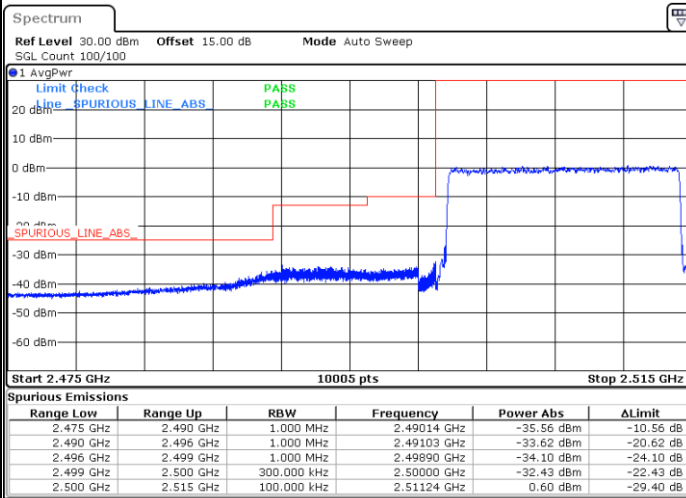
Highest Band Edge / 1 RB



Date: 25.SEP.2023 18:41:01

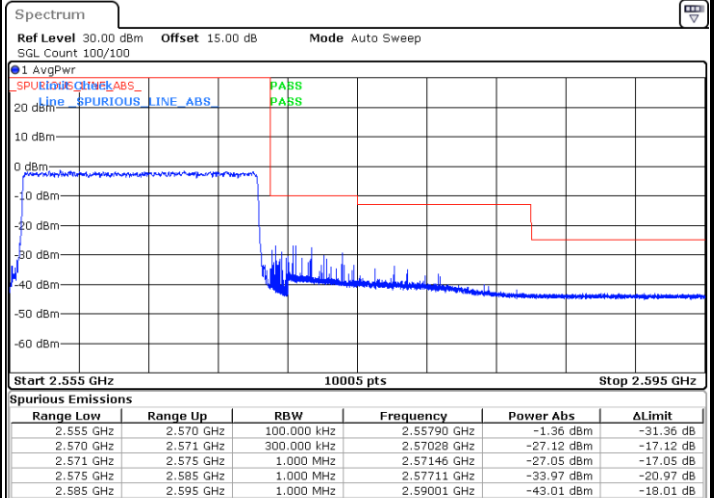
Date: 25.SEP.2023 18:49:39

Lowest Band Edge / Full RB



Date: 25.SEP.2023 18:43:29

Highest Band Edge / Full RB

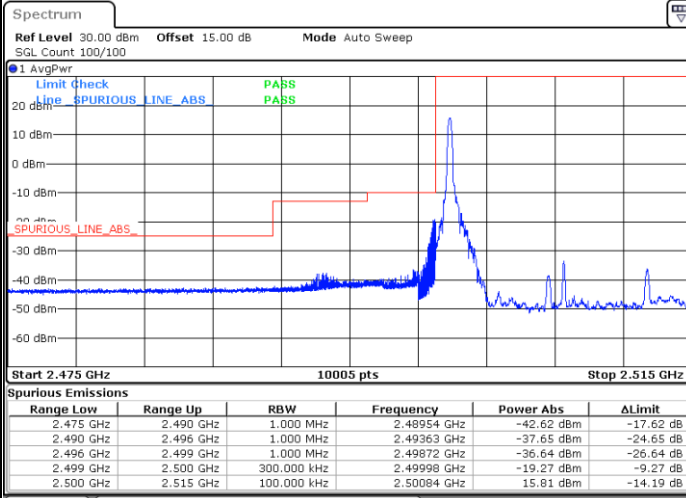


Date: 25.SEP.2023 18:52:06



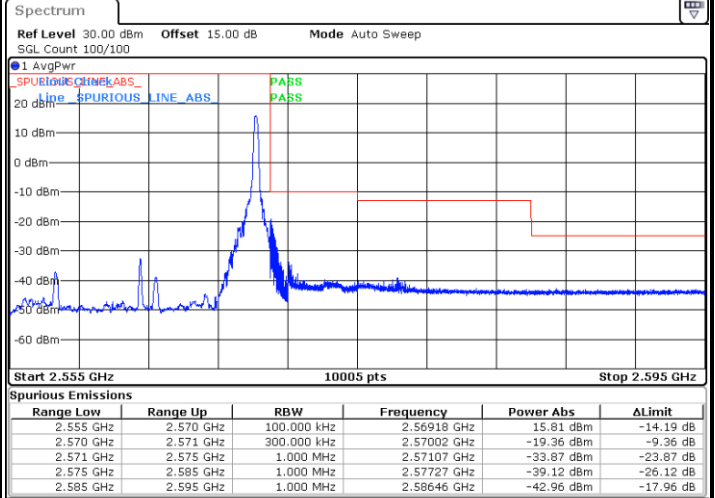
LTE Band 7 / 15MHz / 16QAM

Lowest Band Edge / 1RB



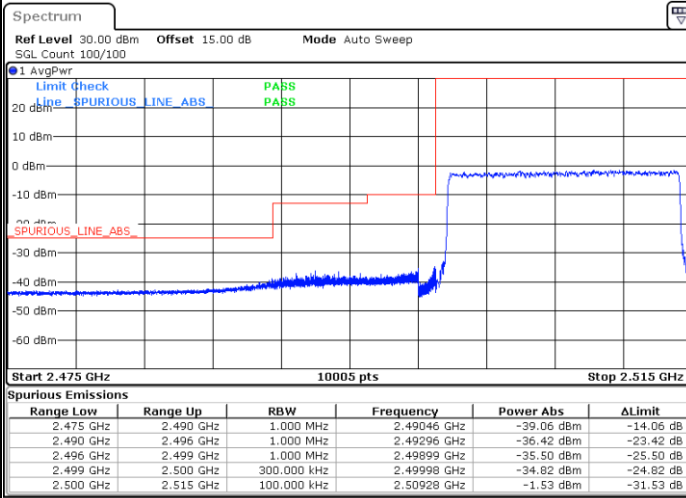
Date: 25.SEP.2023 18:41:50

Highest Band Edge / 1 RB



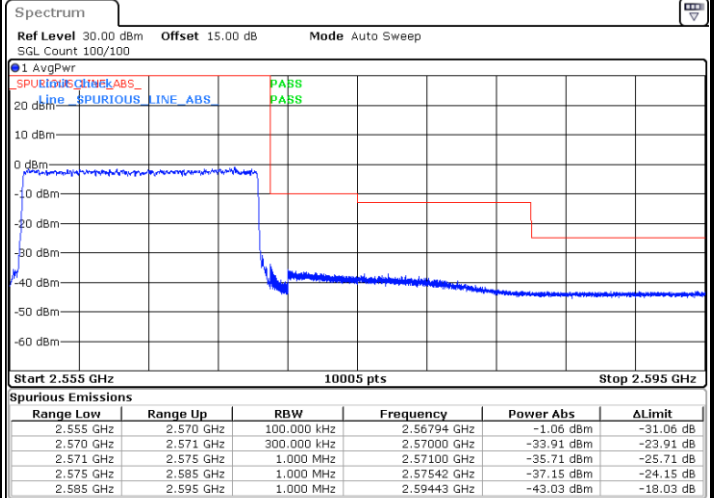
Date: 25.SEP.2023 18:50:28

Lowest Band Edge / Full RB



Date: 25.SEP.2023 18:44:19

Highest Band Edge / Full RB

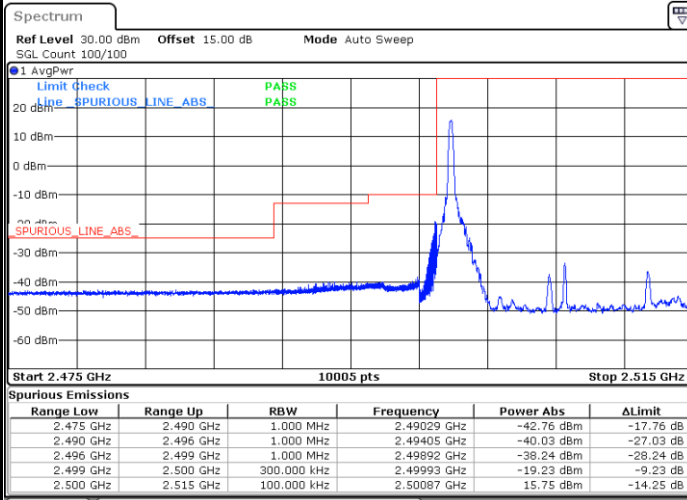


Date: 25.SEP.2023 18:52:56



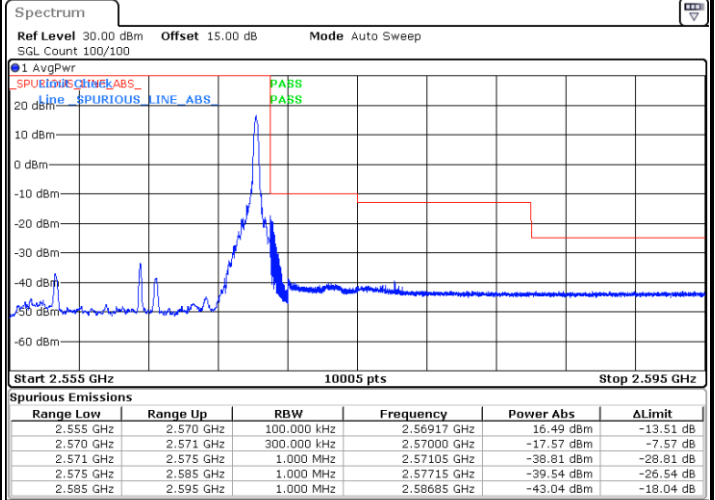
LTE Band 7 / 15MHz / 64QAM

Lowest Band Edge / 1RB



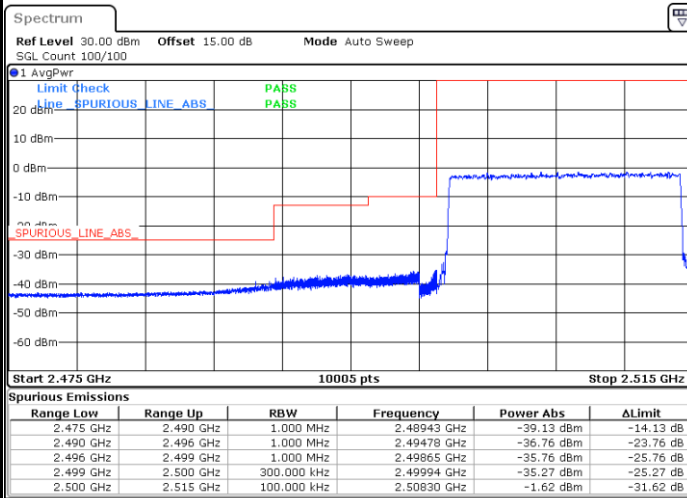
Date: 25.SEP.2023 18:42:40

Highest Band Edge / 1 RB



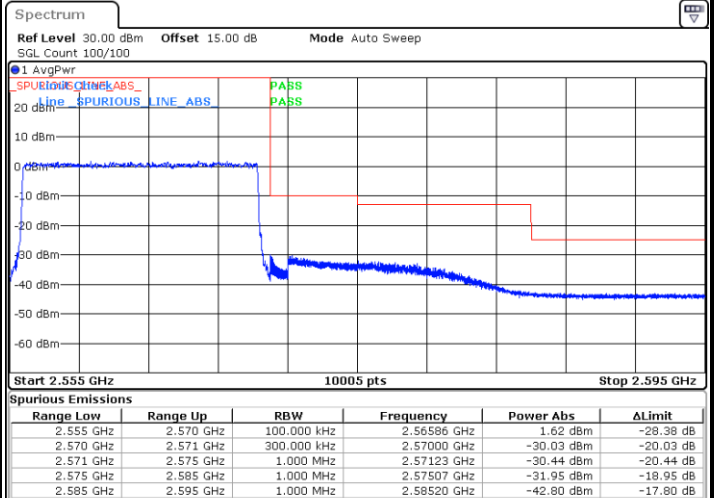
Date: 25.SEP.2023 18:51:17

Lowest Band Edge / Full RB



Date: 25.SEP.2023 18:45:08

Highest Band Edge / Full RB

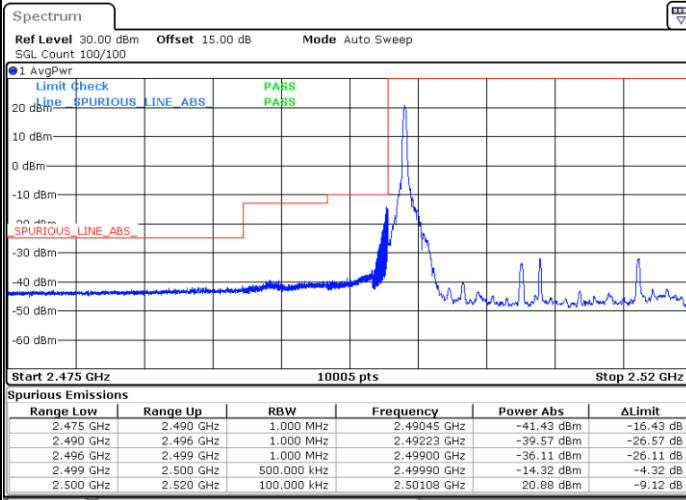


Date: 25.SEP.2023 18:53:45



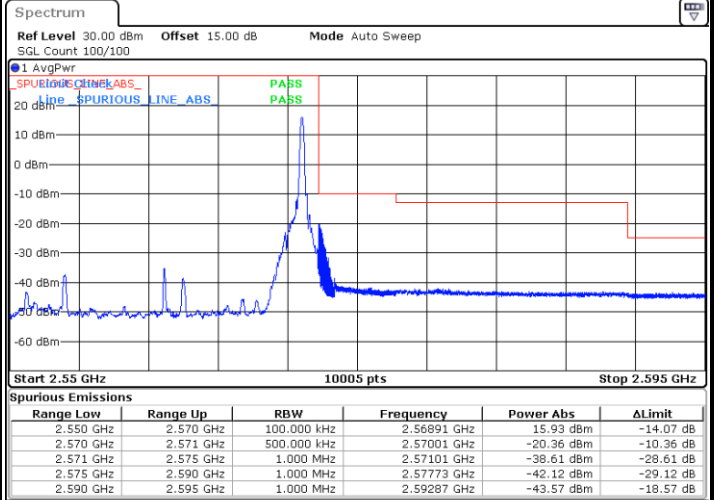
LTE Band 7 / 20MHz / QPSK

Lowest Band Edge / 1 RB



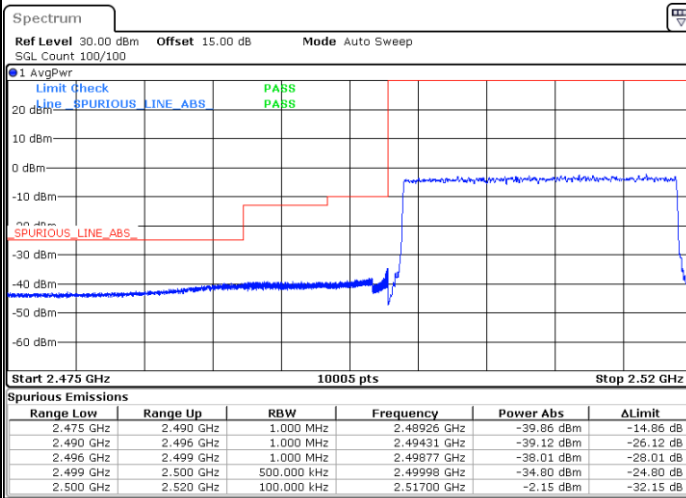
Date: 25.SEP.2023 18:57:36

Highest Band Edge / 1 RB



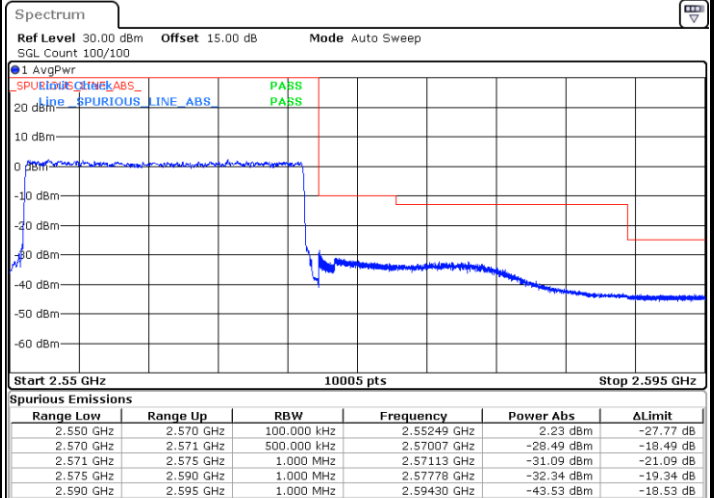
Date: 25.SEP.2023 19:07:44

Lowest Band Edge / Full RB



Date: 25.SEP.2023 19:00:05

Highest Band Edge / Full RB

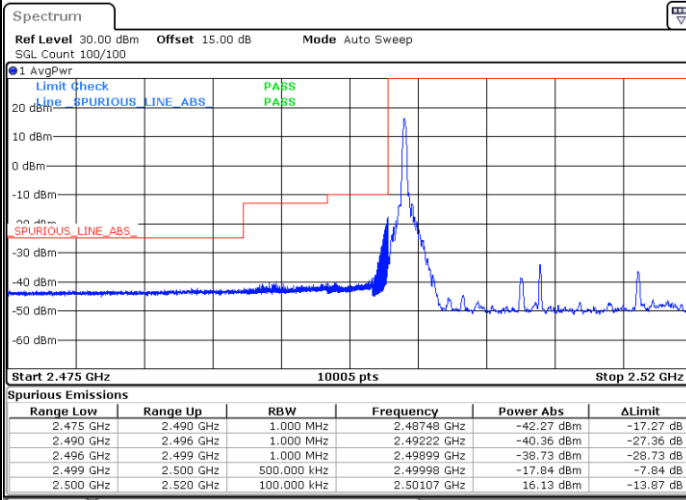


Date: 25.SEP.2023 19:10:12



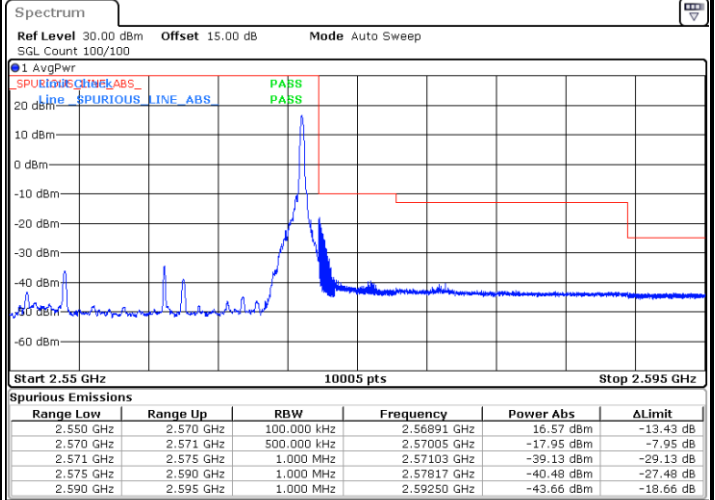
LTE Band 7 / 20MHz / 16QAM

Lowest Band Edge / 1RB



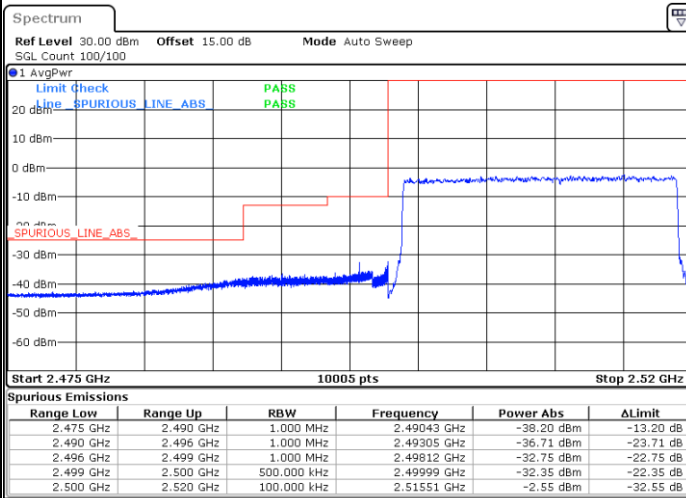
Date: 25.SEP.2023 18:58:26

Highest Band Edge / 1 RB



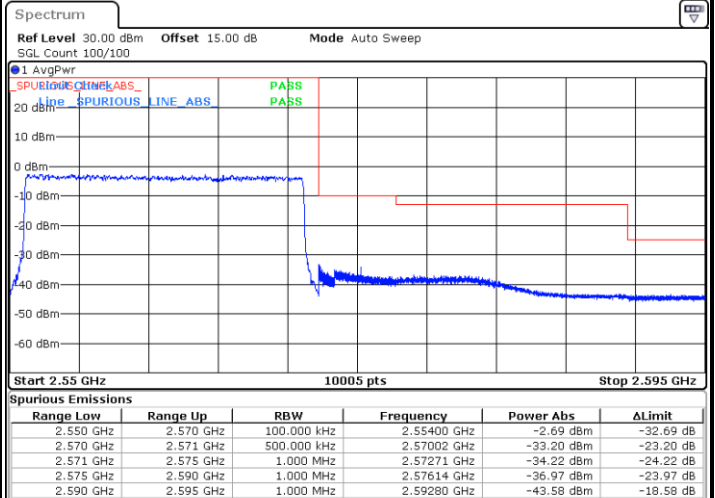
Date: 25.SEP.2023 19:08:33

Lowest Band Edge / Full RB



Date: 25.SEP.2023 19:00:54

Highest Band Edge / Full RB

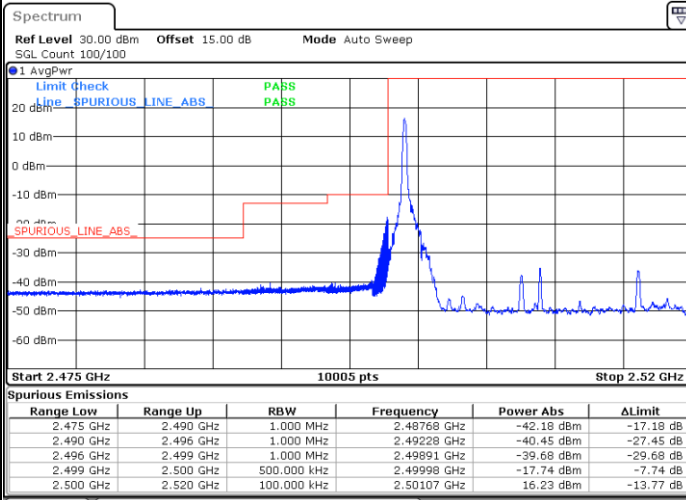


Date: 25.SEP.2023 19:11:01



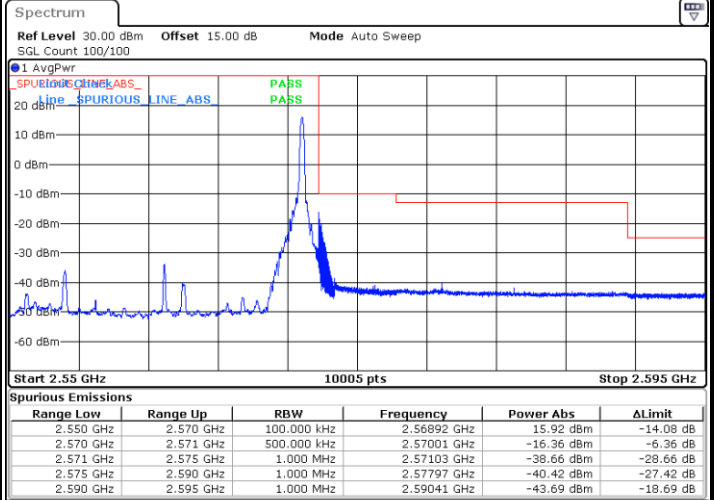
LTE Band 7 / 20MHz / 64QAM

Lowest Band Edge / 1RB



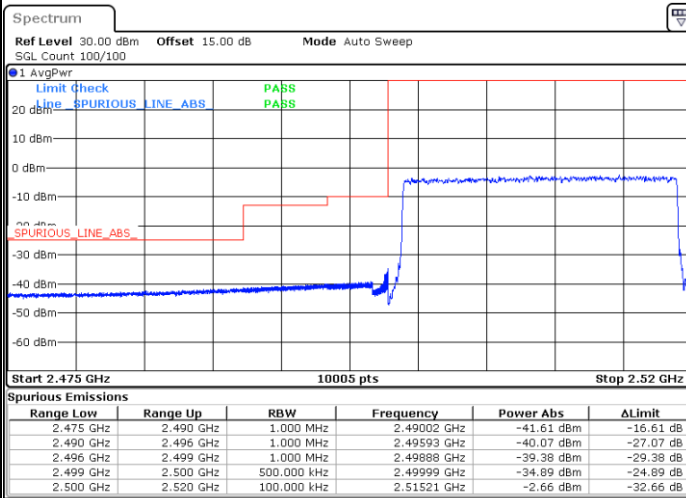
Date: 25.SEP.2023 18:59:15

Highest Band Edge / 1 RB



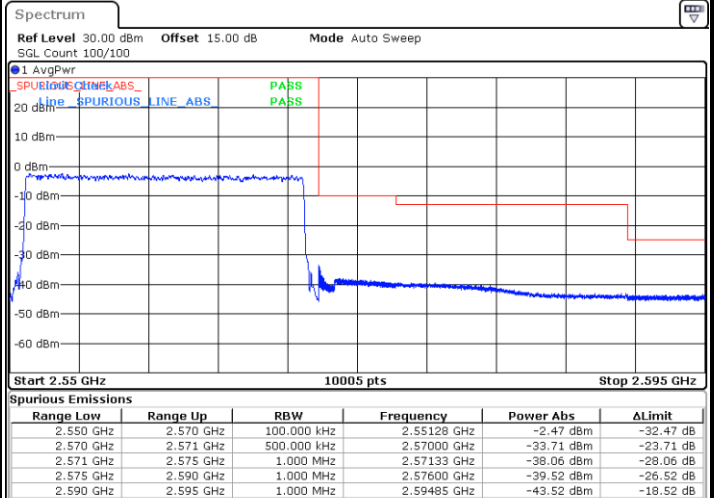
Date: 25.SEP.2023 19:09:22

Lowest Band Edge / Full RB



Date: 25.SEP.2023 19:01:44

Highest Band Edge / Full RB



Date: 25.SEP.2023 19:11:50



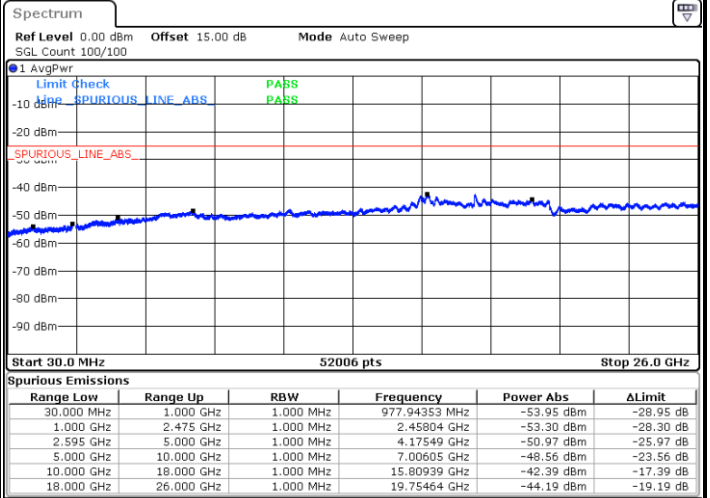
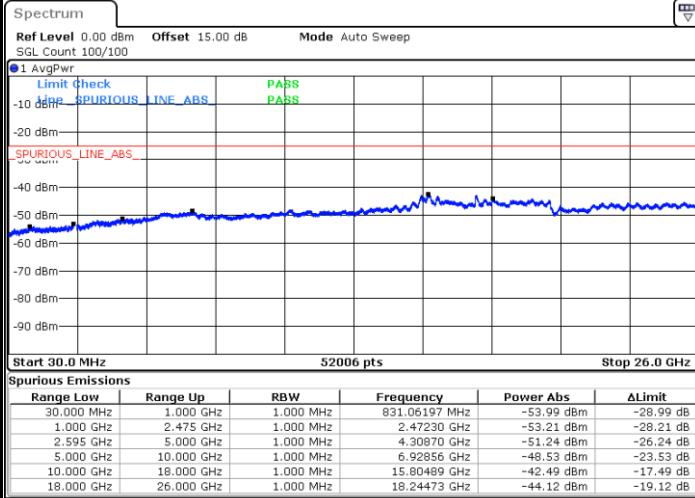


# Conducted Spurious Emission

## LTE Band 7 / 5MHz

### Lowest Channel / QPSK

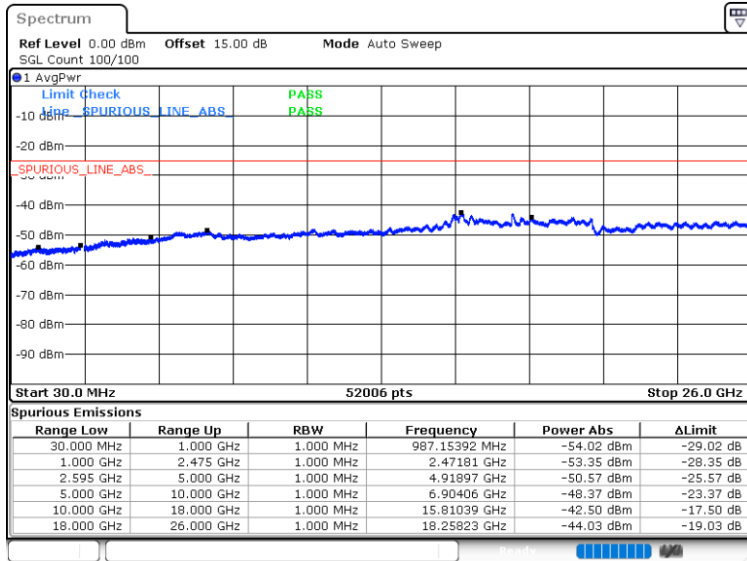
### Middle Channel / QPSK



Date: 25.SEP.2023 18:13:07

Date: 25.SEP.2023 18:14:15

### Highest Channel / QPSK

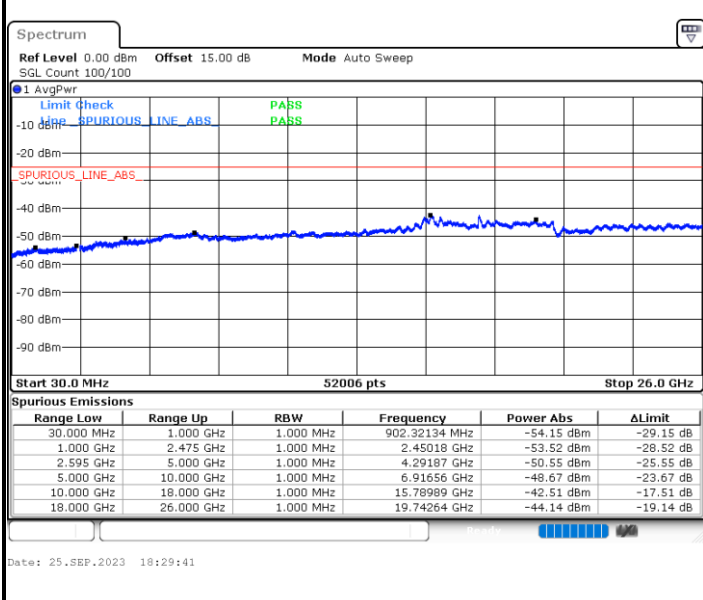


Date: 25.SEP.2023 18:21:43

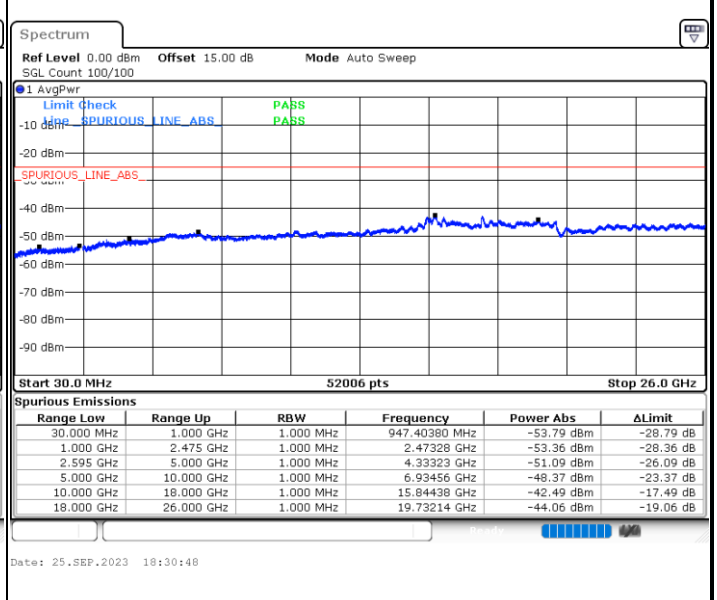


**LTE Band 7 / 10MHz**

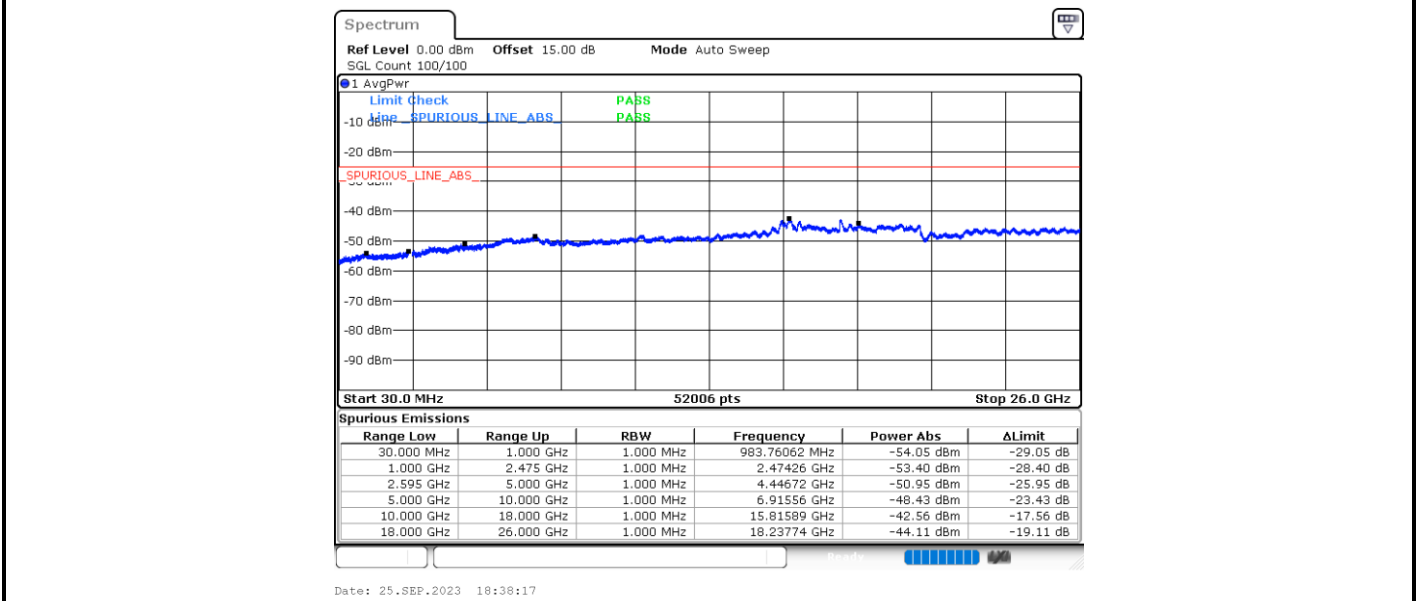
**Lowest Channel / QPSK**



**Middle Channel / QPSK**



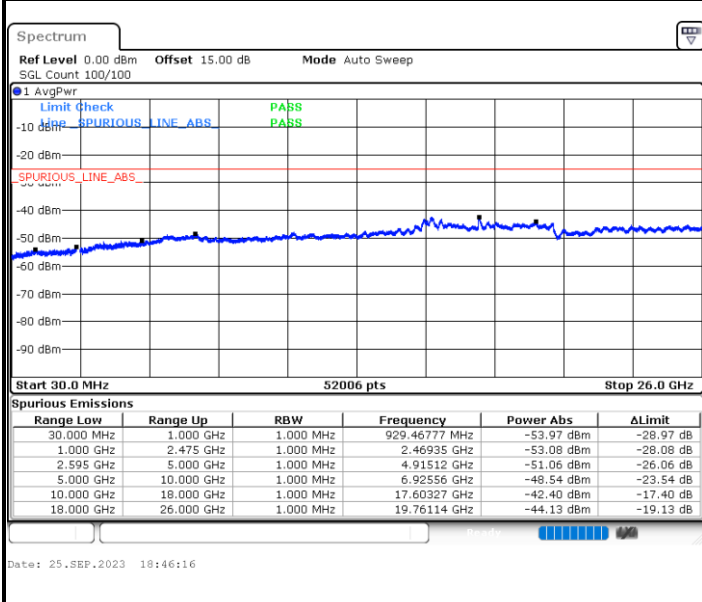
**Highest Channel / QPSK**



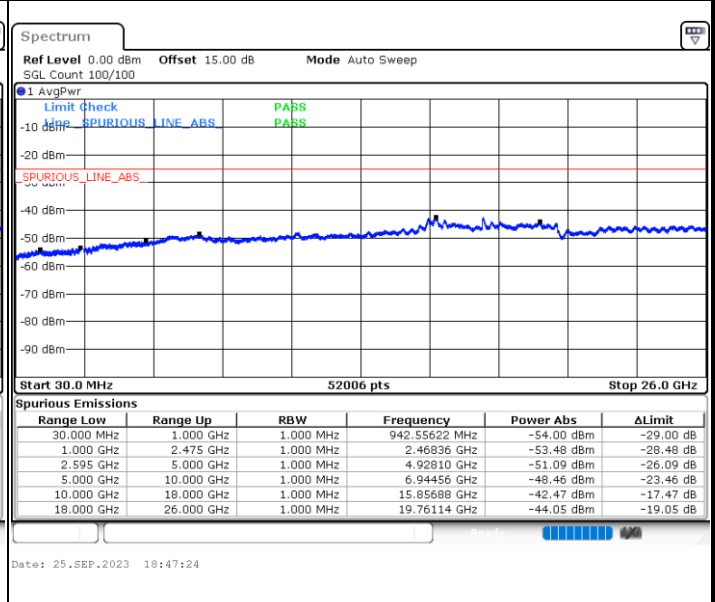


**LTE Band 7 / 15MHz**

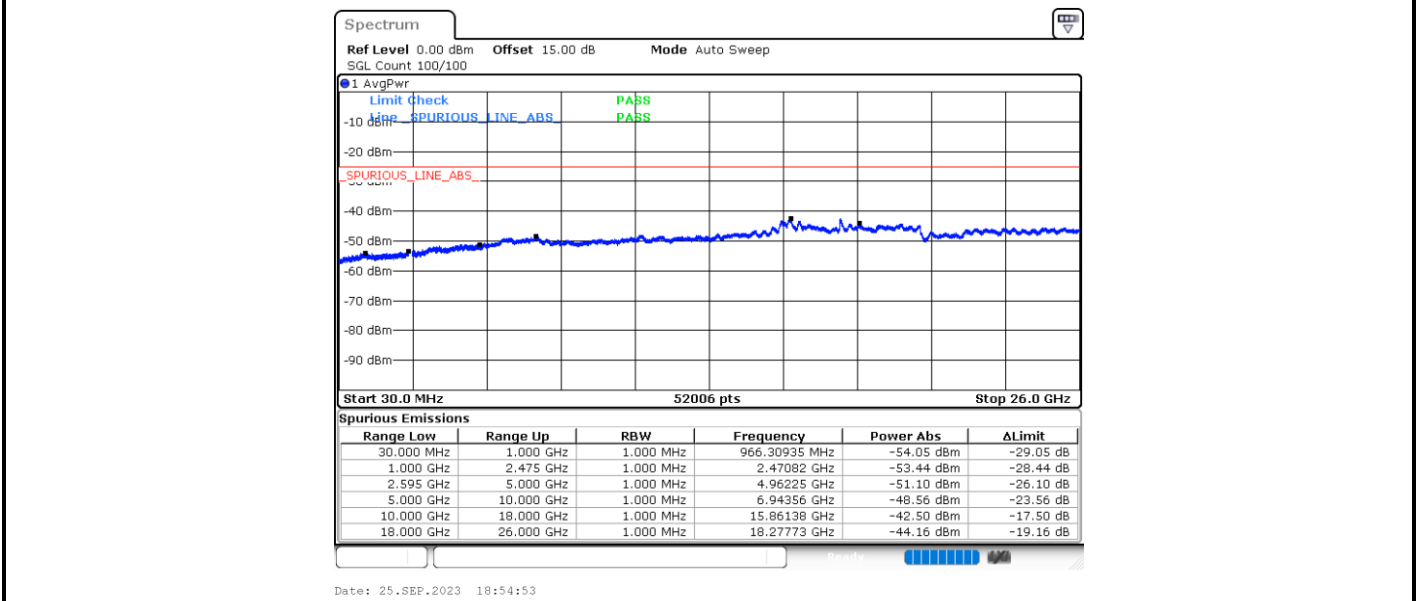
**Lowest Channel / QPSK**



**Middle Channel / QPSK**



**Highest Channel / QPSK**

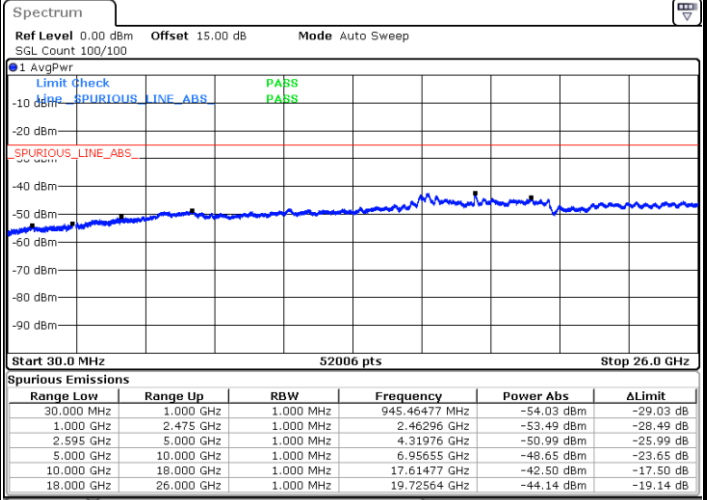
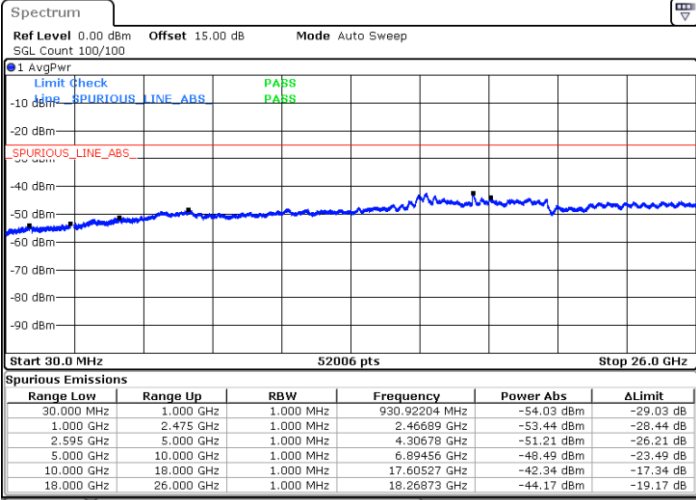




LTE Band 7 / 20MHz

Lowest Channel / QPSK

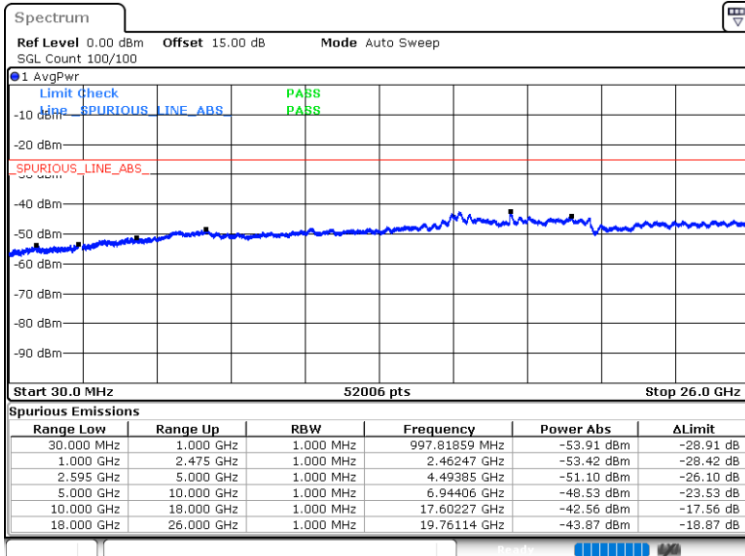
Middle Channel / QPSK



Date: 25.SEP.2023 19:02:52

Date: 25.SEP.2023 19:03:59

Highest Channel / QPSK



Date: 25.SEP.2023 19:12:58



### Frequency Stability

Test Conditions		LTE Band 7 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0011	PASS
40	Normal Voltage	0.0013	
30	Normal Voltage	0.0004	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0009	
0	Normal Voltage	0.0007	
-10	Normal Voltage	0.0003	
-20	Normal Voltage	0.0008	
-30	Normal Voltage	0.0007	
20	Maximum Voltage	0.0005	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0007	

**Note:**

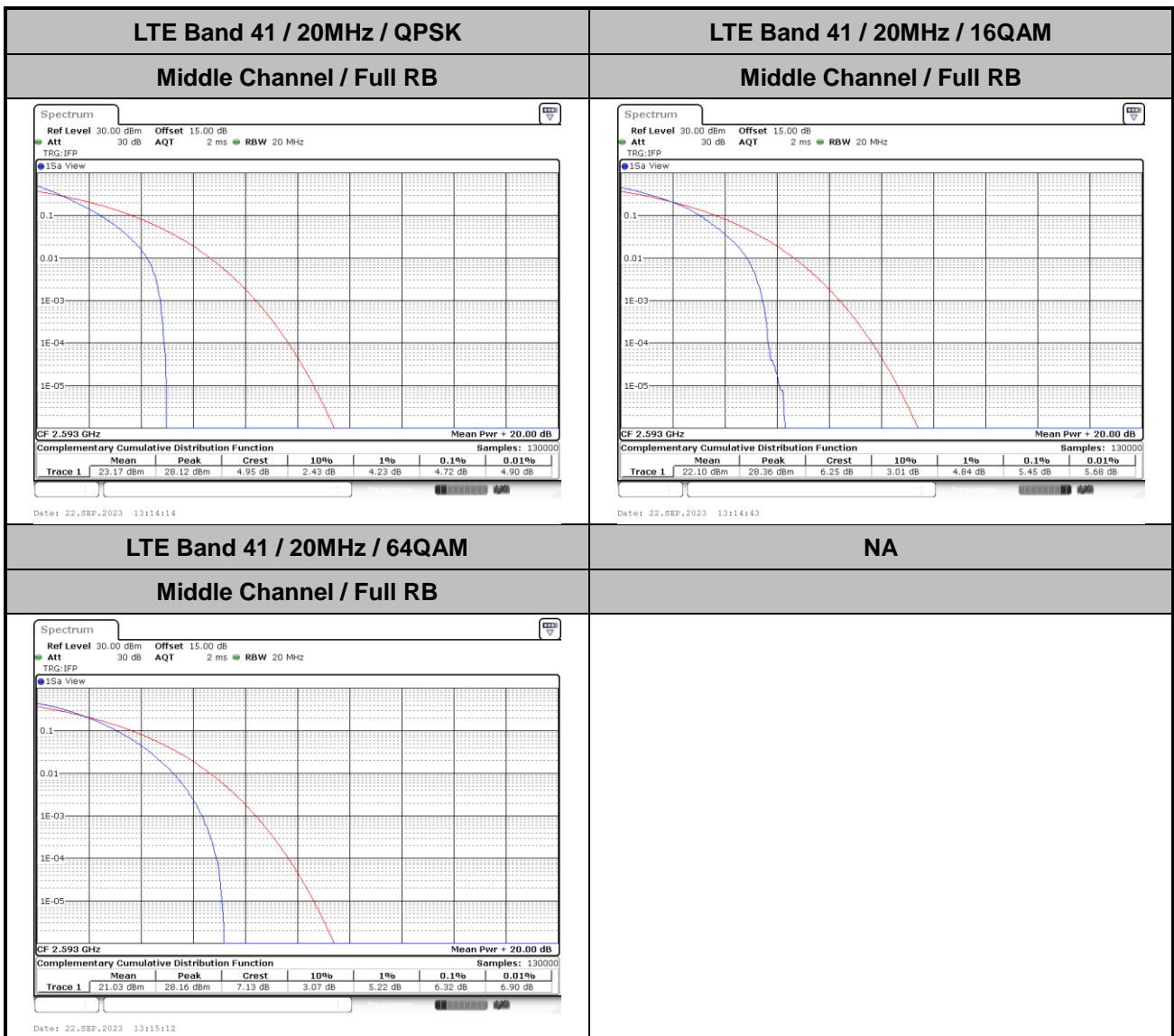
1. Normal Voltage = 3.89 V. ; Battery End Point (BEP) = 3.45 V. ; Maximum Voltage = 4.45 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



# LTE Band 41 (Main PA)

## Peak-to-Average Ratio

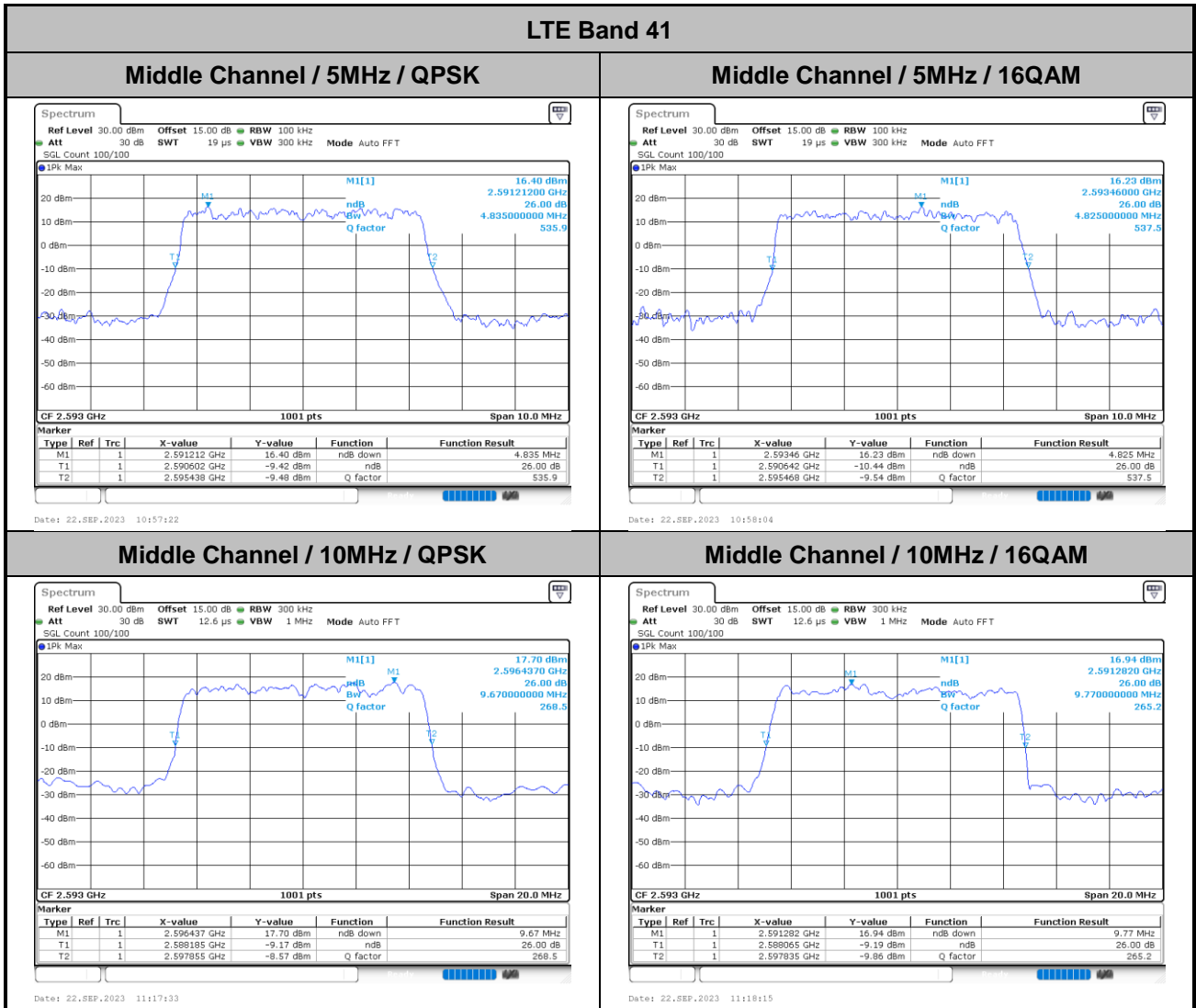
Mode	LTE Band 41 / 20MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	4.72	5.45	6.32	PASS





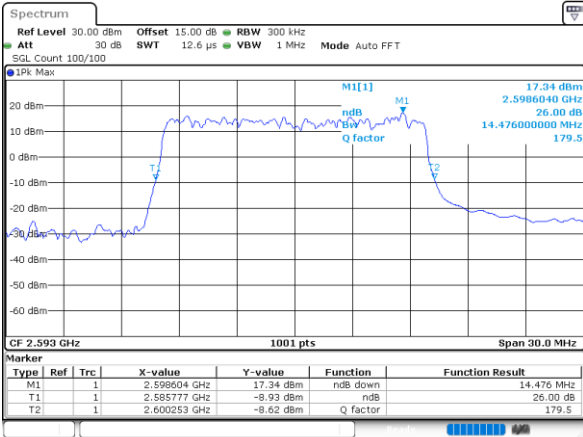
# 26dB Bandwidth

Mode	LTE Band 41 : 26dB BW(MHz)											
	BW		-		5MHz		10MHz		15MHz		20MHz	
Mod.	-	-	-	-	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	4.84	4.83	9.67	9.77	14.48	14.09	18.82	18.74

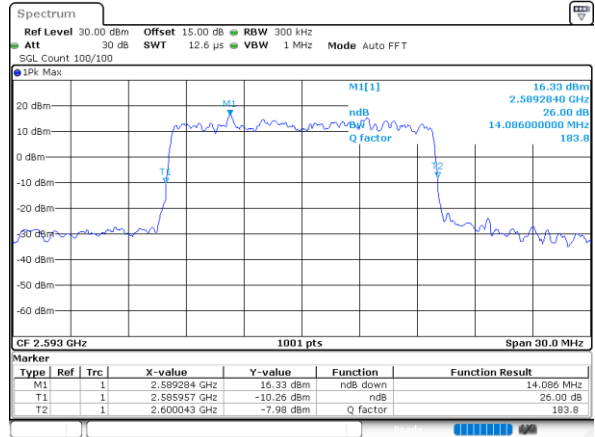




Middle Channel / 15MHz / QPSK

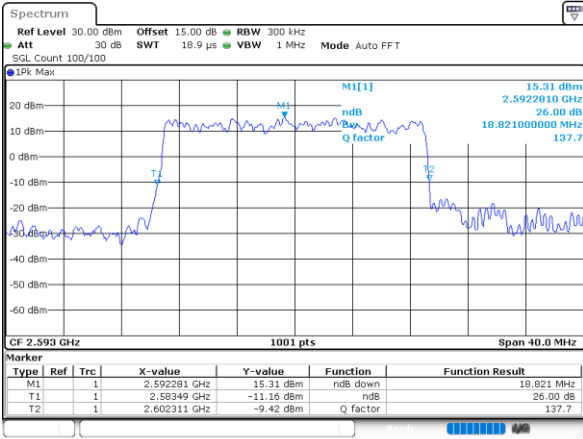


Middle Channel / 15MHz / 16QAM

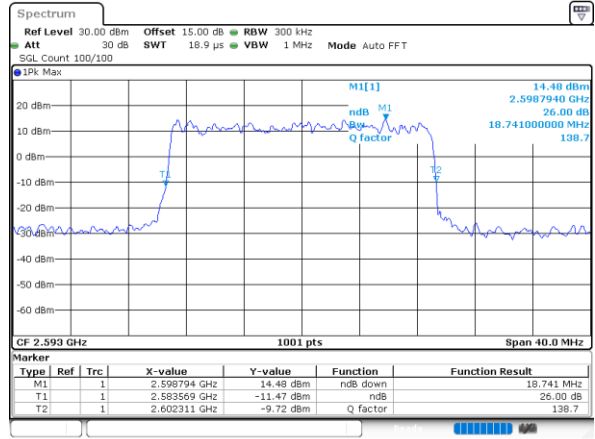


LTE Band 41

Middle Channel / 20MHz / QPSK



Middle Channel / 20MHz / 16QAM

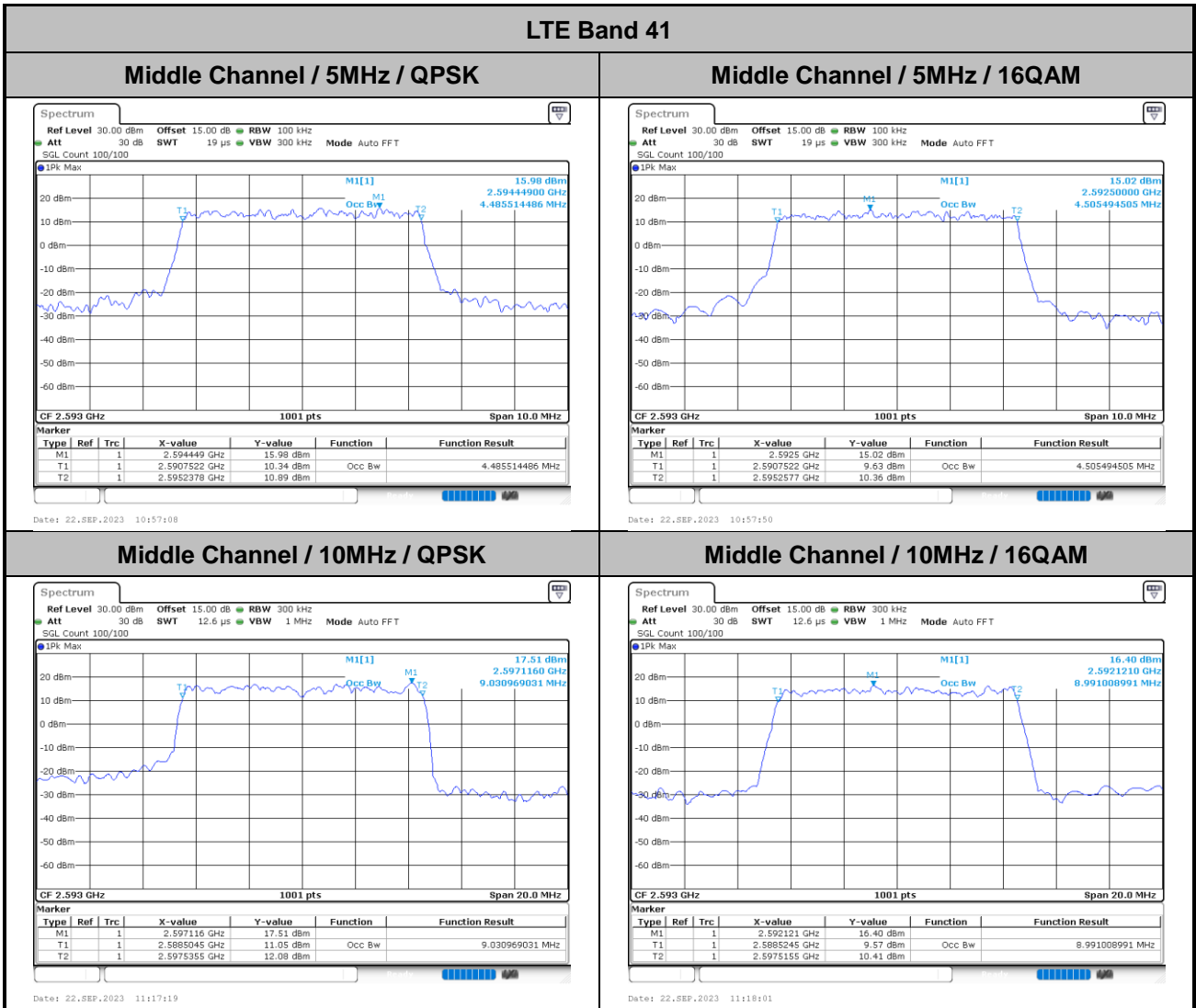






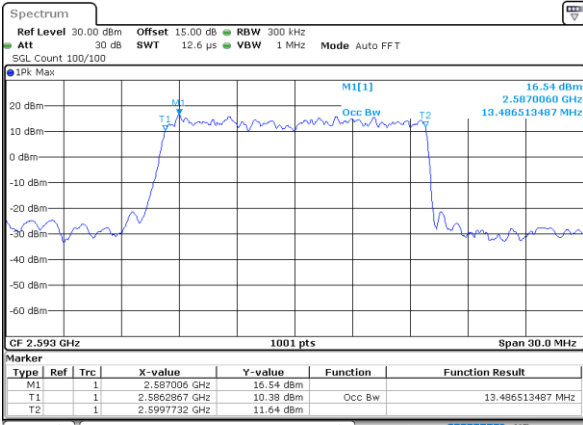
# Occupied Bandwidth

Mode	LTE Band 41 : 99%OBW(MHz)											
	-				5MHz		10MHz		15MHz		20MHz	
BW	-				5MHz	10MHz	10MHz	15MHz	15MHz	20MHz	20MHz	
Mod.	-				QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-				4.49	4.51	9.03	8.99	13.49	13.37	17.90	17.90



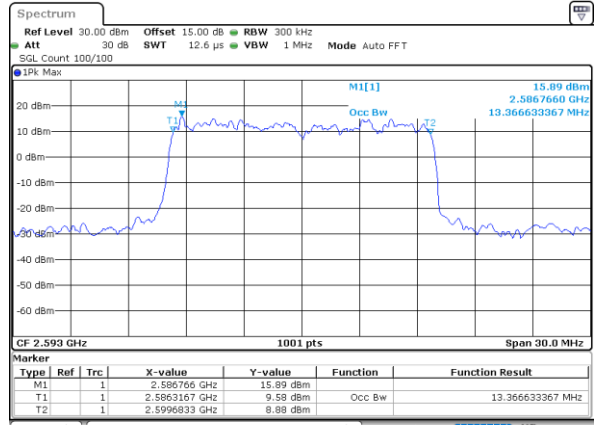


Middle Channel / 15MHz / QPSK



Date: 22\_SEP.2023 11:41:34

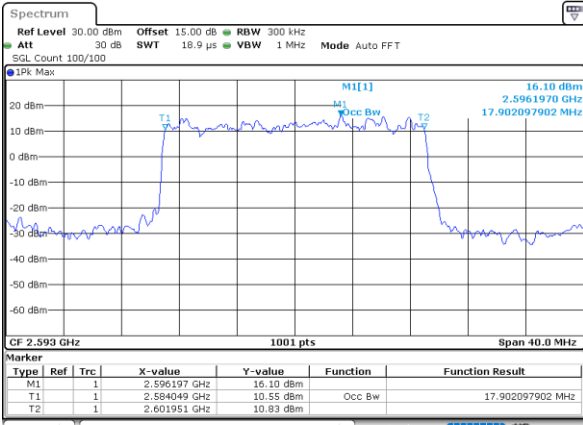
Middle Channel / 15MHz / 16QAM



Date: 22\_SEP.2023 11:42:16

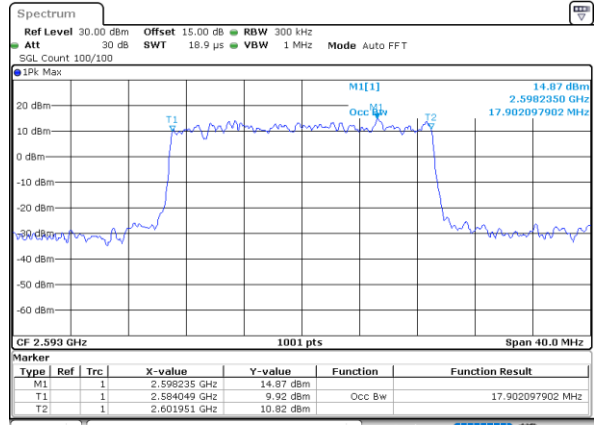
LTE Band 41

Middle Channel / 20MHz / QPSK



Date: 22\_SEP.2023 13:12:49

Middle Channel / 20MHz / 16QAM



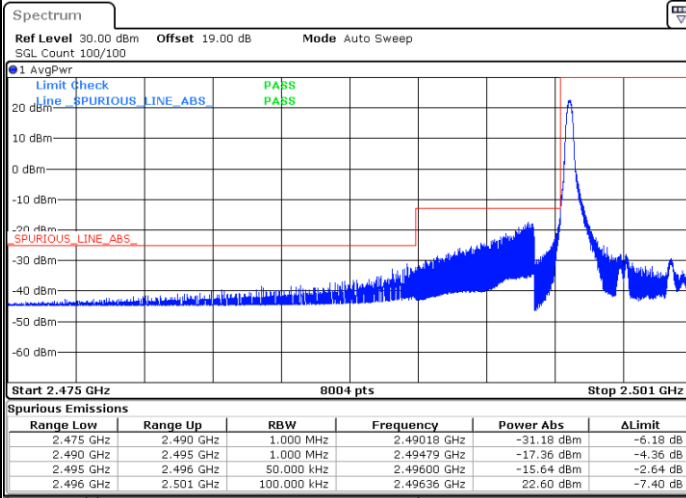
Date: 22\_SEP.2023 13:13:31



# Conducted Band Edge

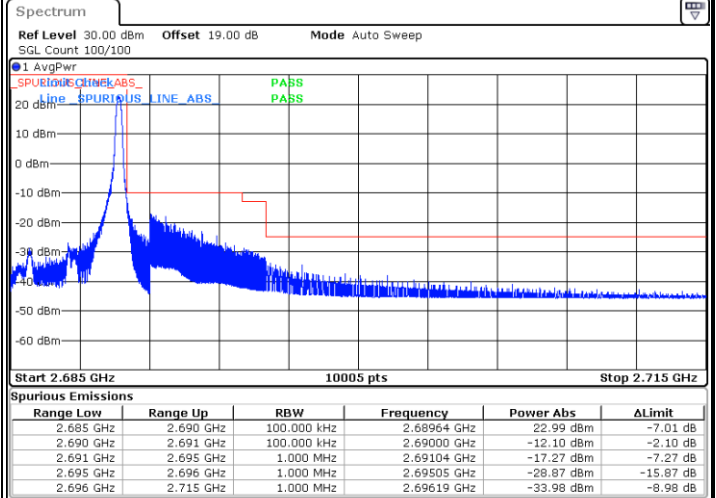
## LTE Band 41 / 5MHz / QPSK

### Lowest Band Edge / 1 RB



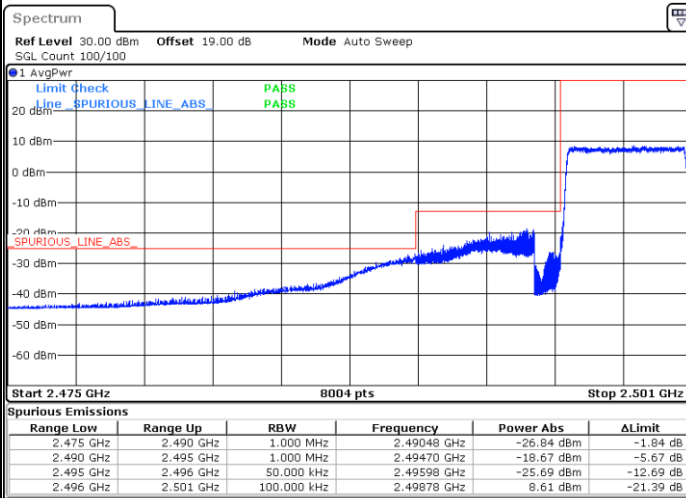
Date: 22.SEP.2023 13:28:00

### Highest Band Edge / 1 RB



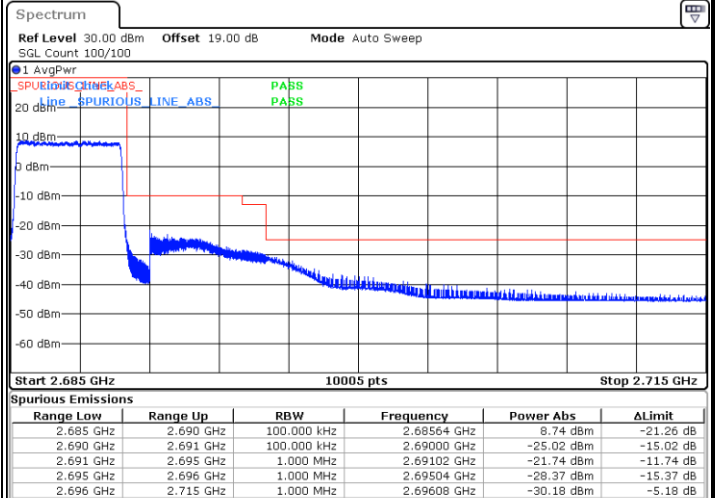
Date: 22.SEP.2023 10:59:10

### Lowest Band Edge / Full RB



Date: 22.SEP.2023 10:55:27

### Highest Band Edge / Full RB

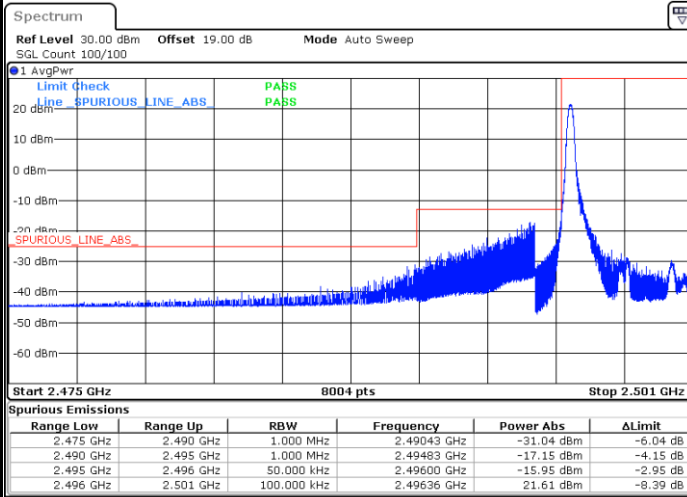


Date: 22.SEP.2023 11:04:51



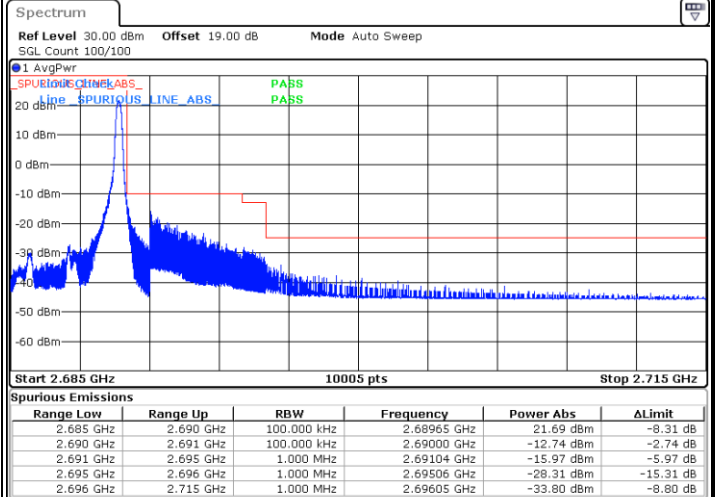
LTE Band 41 / 5MHz / 16QAM

Lowest Band Edge / 1RB



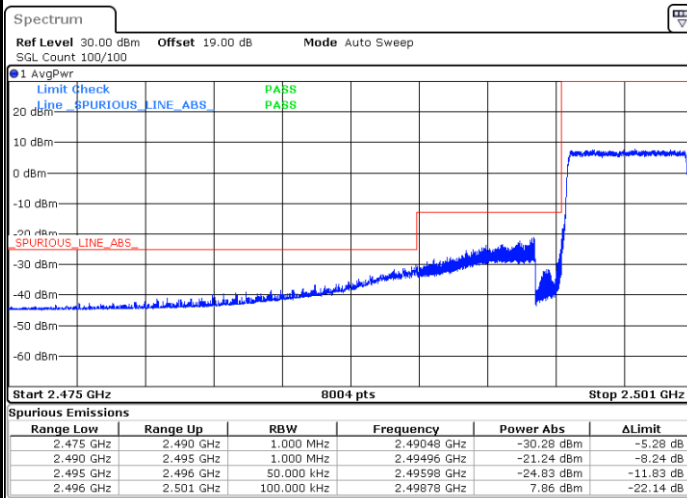
Date: 22.SEP.2023 10:51:11

Highest Band Edge / 1 RB



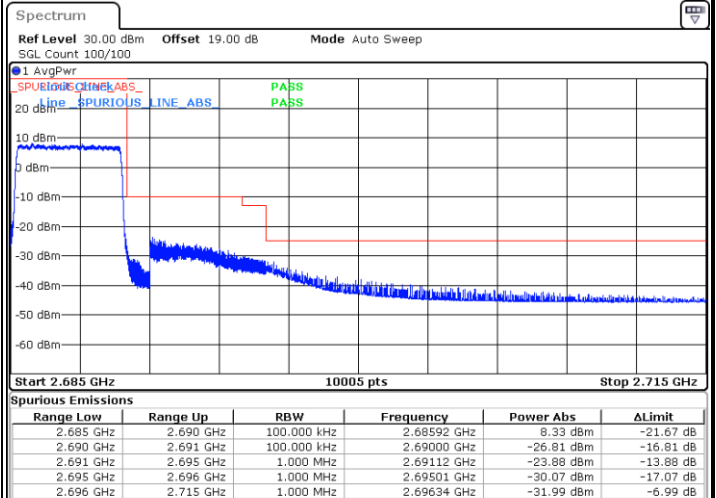
Date: 22.SEP.2023 11:00:18

Lowest Band Edge / Full RB



Date: 22.SEP.2023 10:54:23

Highest Band Edge / Full RB

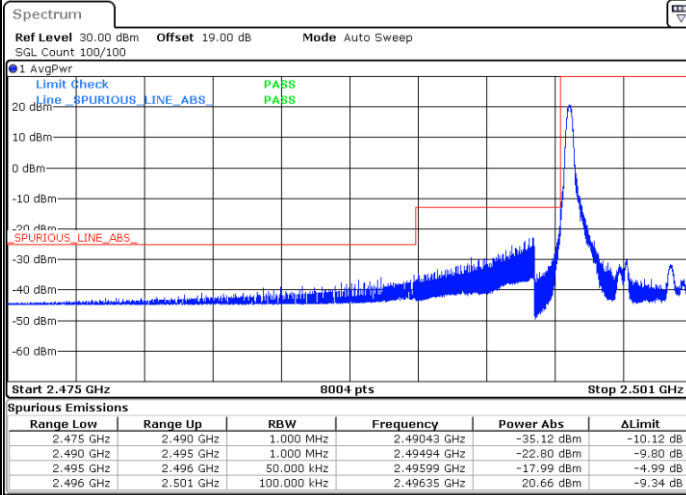


Date: 22.SEP.2023 11:03:43



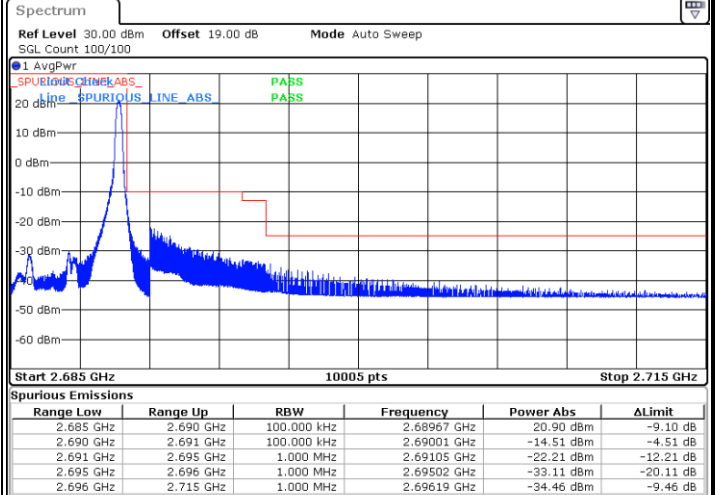
LTE Band 41 / 5MHz / 64QAM

Lowest Band Edge / 1RB



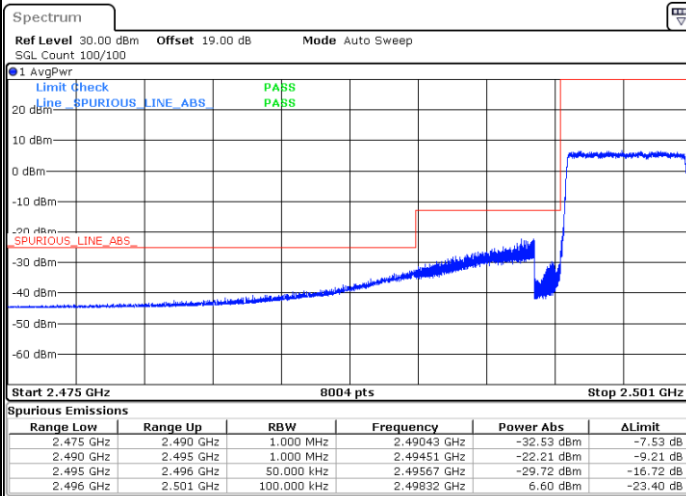
Date: 22.SEP.2023 10:52:15

Highest Band Edge / 1 RB



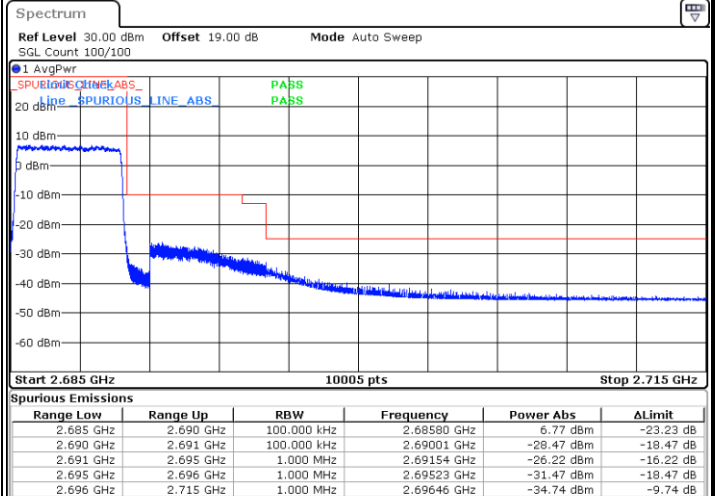
Date: 22.SEP.2023 11:01:26

Lowest Band Edge / Full RB



Date: 22.SEP.2023 10:53:19

Highest Band Edge / Full RB



Date: 22.SEP.2023 11:02:35