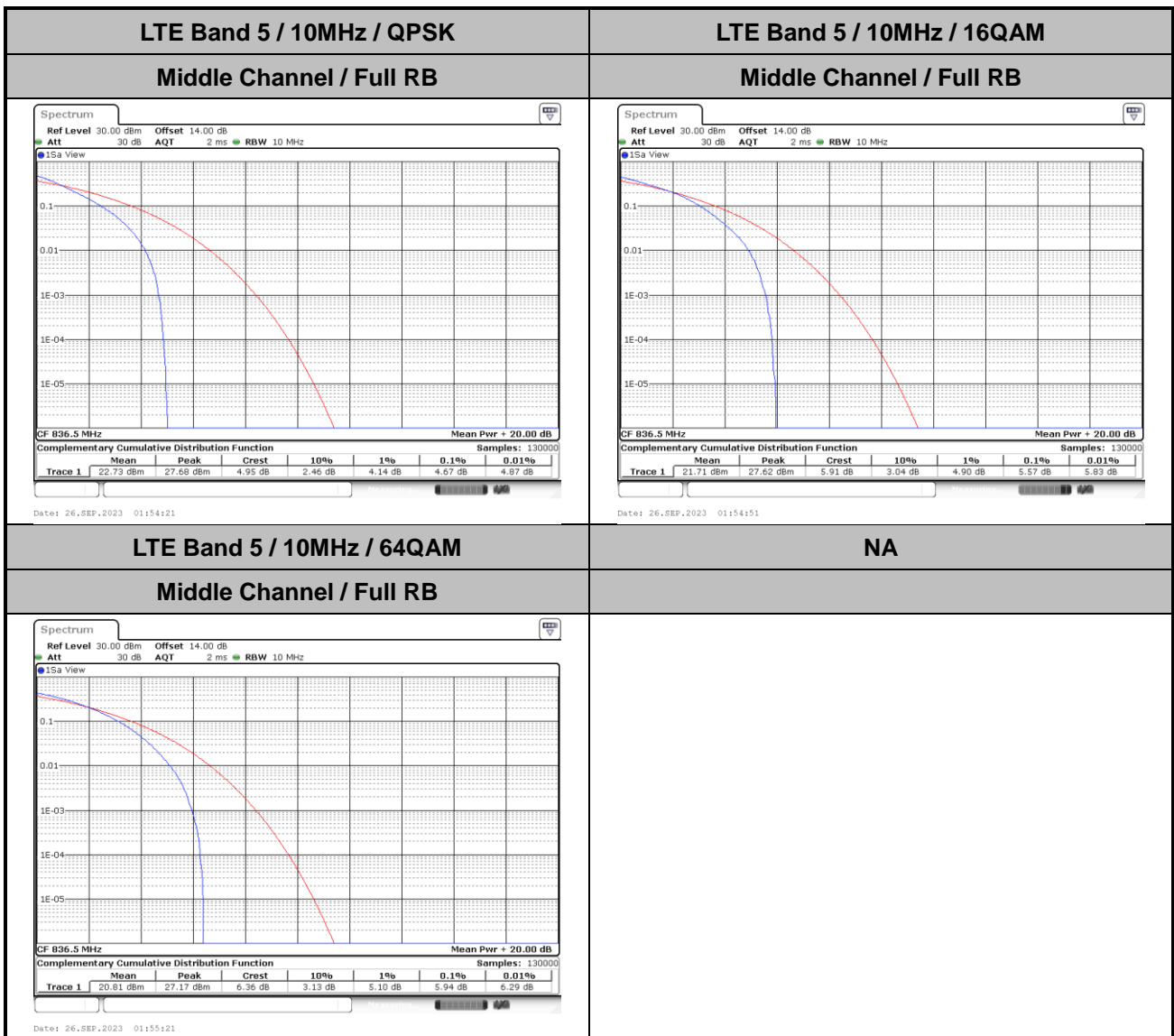




# LTE Band 5 (Other PA)

## Peak-to-Average Ratio

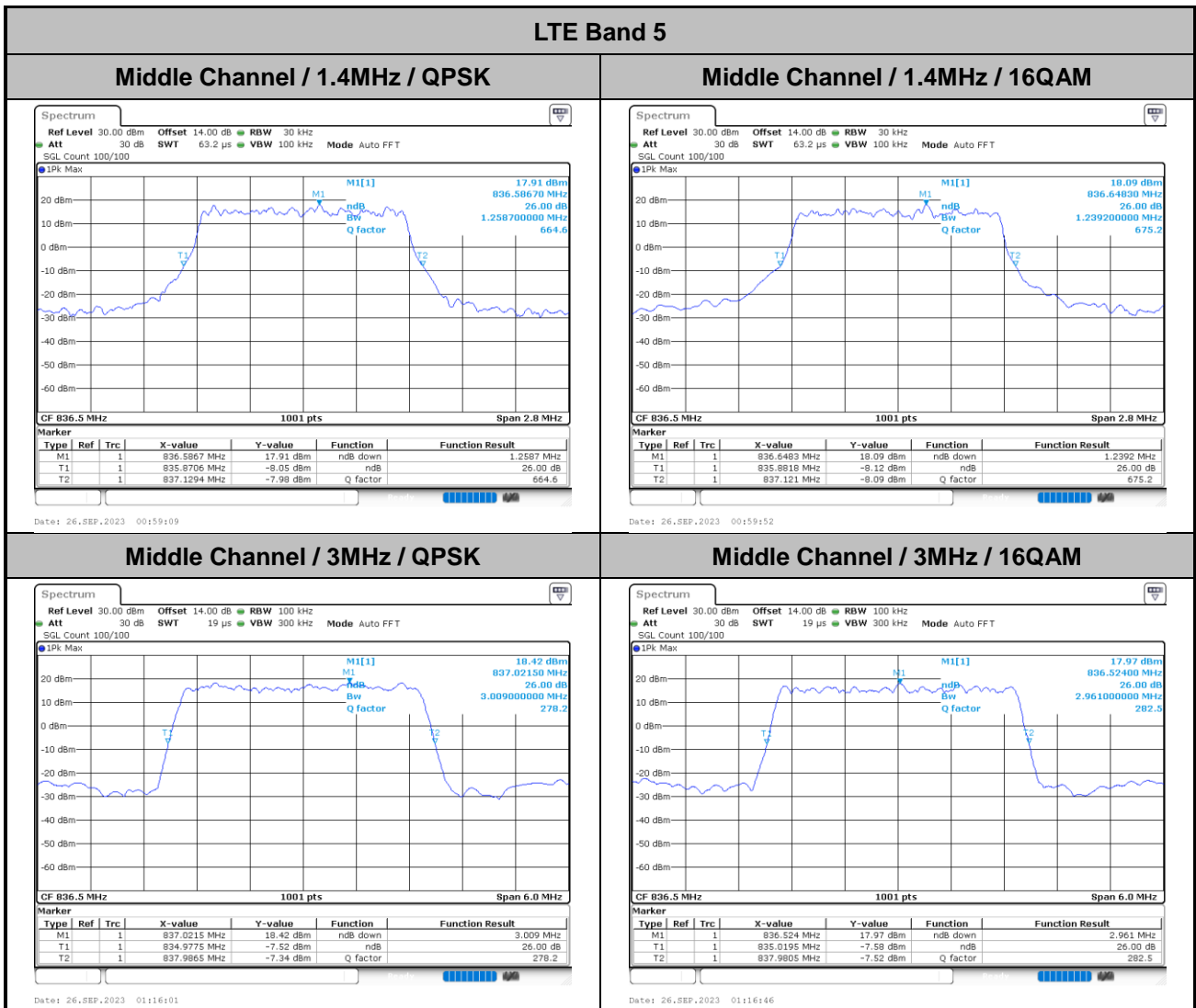
Mode	LTE Band 5 / 10MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	4.67	5.57	5.94	PASS





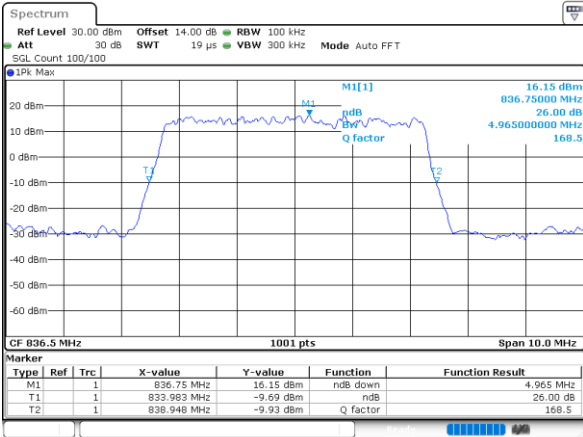
# 26dB Bandwidth

Mode	LTE Band 5 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz					
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM				
Middle CH	1.26	1.24	3.01	2.96	4.97	4.90	9.73	9.61	-	-	-	-



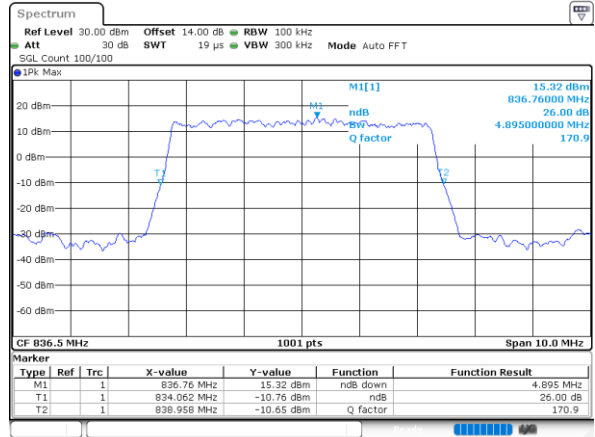


Middle Channel / 5MHz / QPSK



Date: 26\_SEP.2023 01:16:17

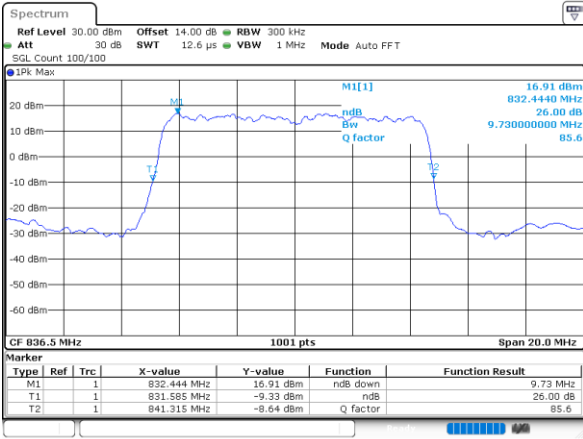
Middle Channel / 5MHz / 16QAM



Date: 26\_SEP.2023 01:17:00

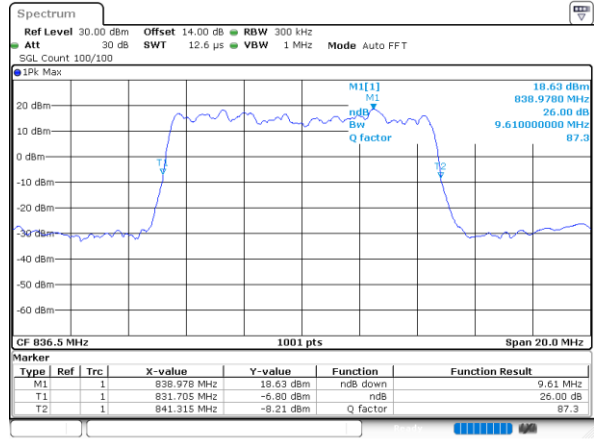
LTE Band 5

Middle Channel / 10MHz / QPSK



Date: 26\_SEP.2023 01:53:08

Middle Channel / 10MHz / 16QAM

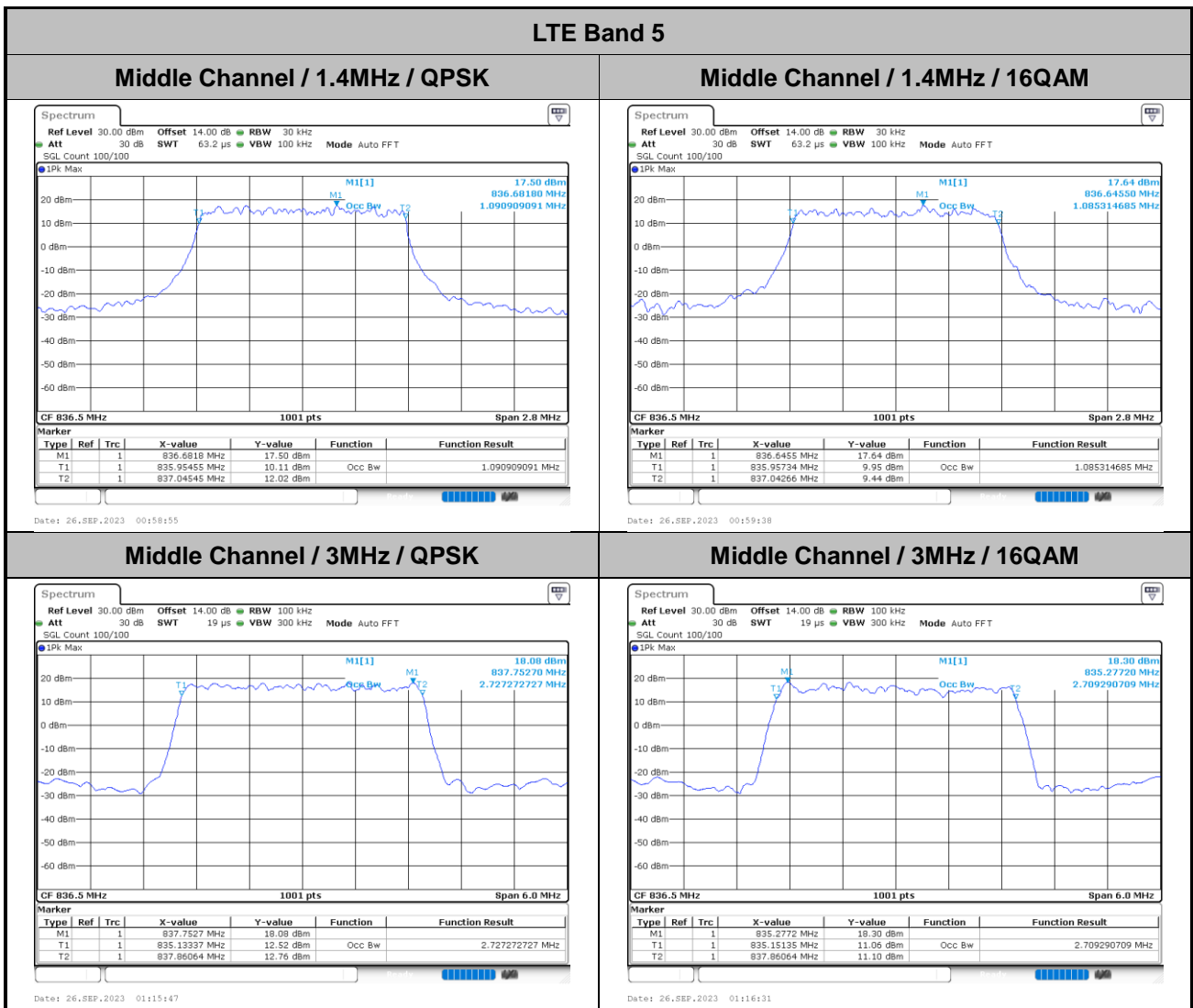


Date: 26\_SEP.2023 01:53:51



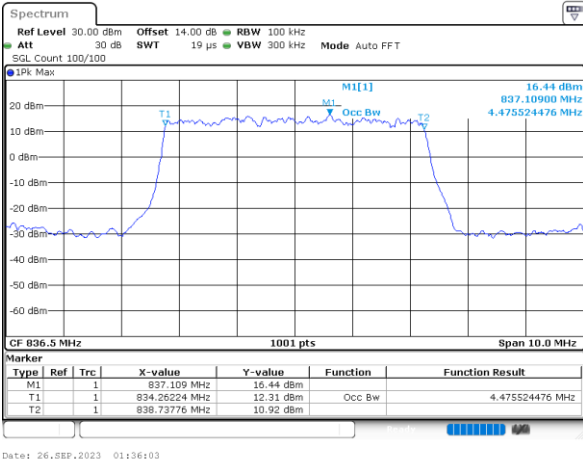
# Occupied Bandwidth

Mode	LTE Band 5 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz					
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM				
Middle CH	1.09	1.09	2.73	2.71	4.48	4.49	8.99	9.05	-	-	-	-



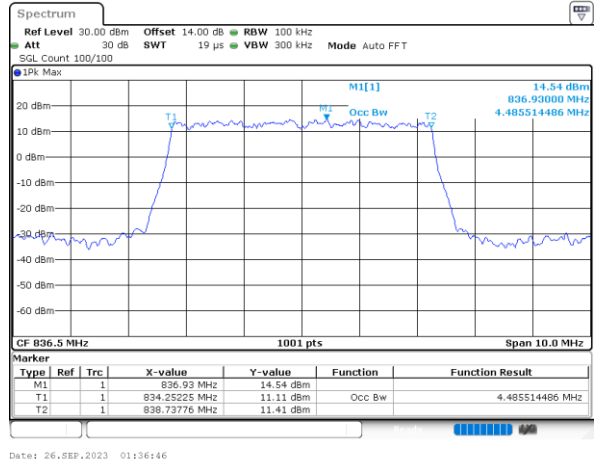


Middle Channel / 5MHz / QPSK



Date: 26\_SEP.2023 01:36:03

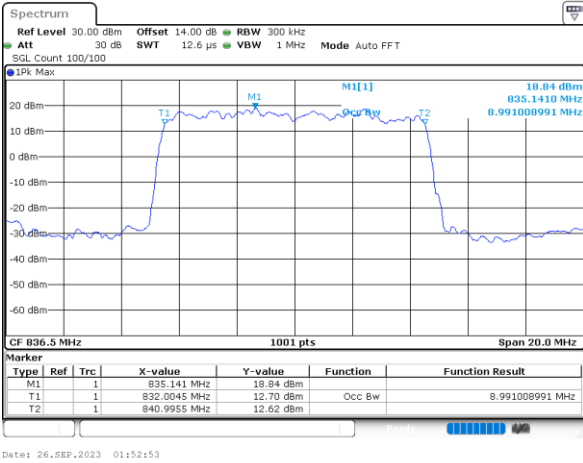
Middle Channel / 5MHz / 16QAM



Date: 26\_SEP.2023 01:36:46

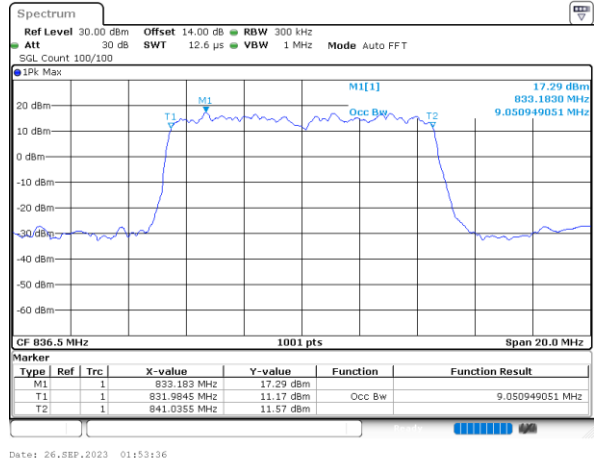
LTE Band 5

Middle Channel / 10MHz / QPSK



Date: 26\_SEP.2023 01:52:53

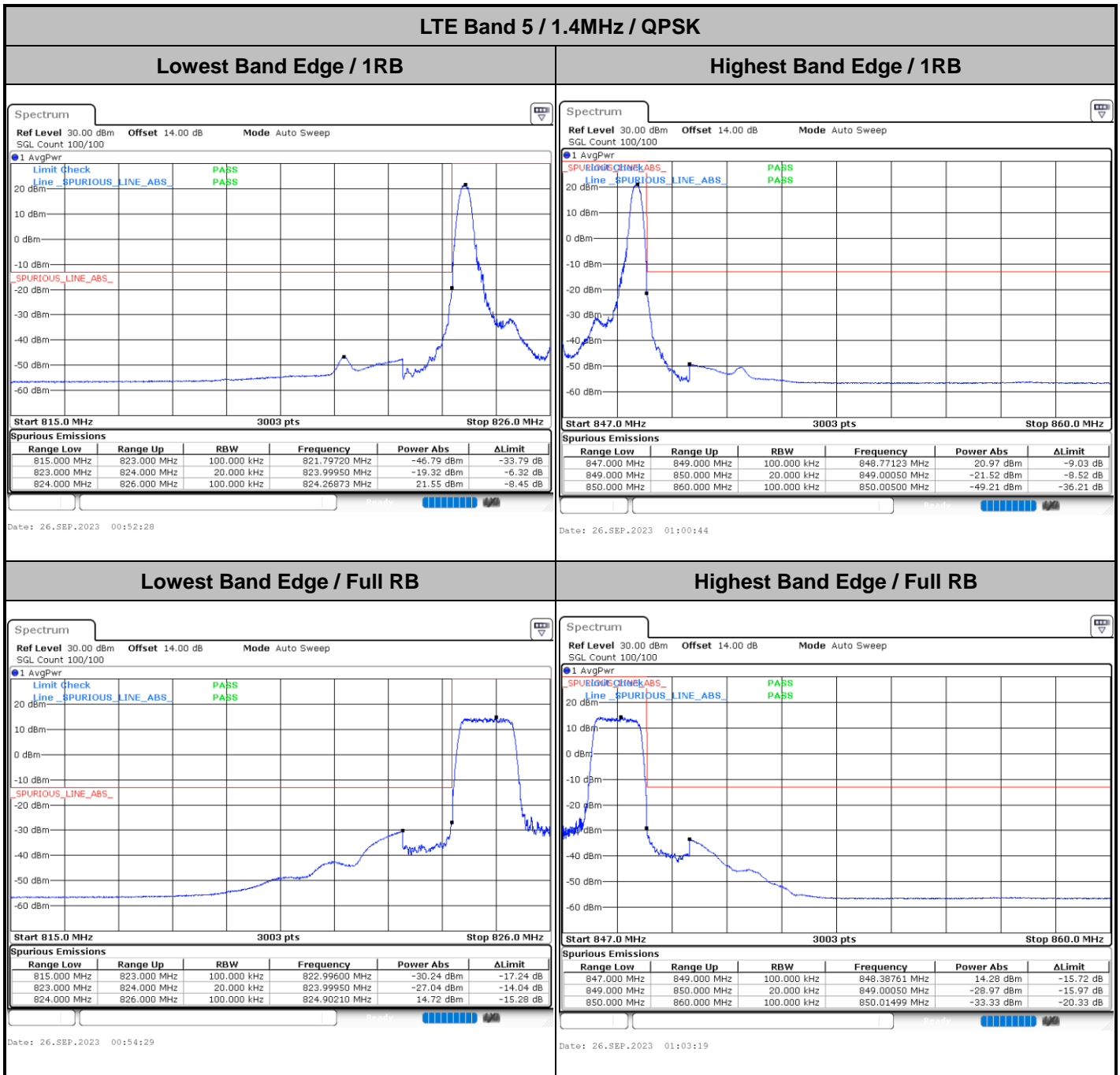
Middle Channel / 10MHz / 16QAM



Date: 26\_SEP.2023 01:53:36



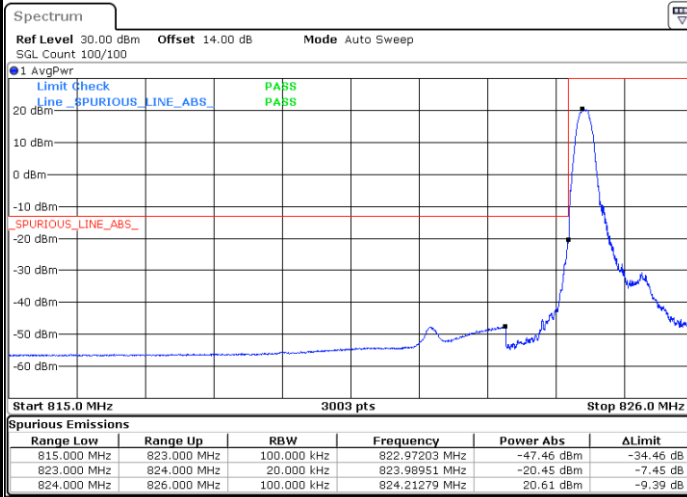
# Conducted Band Edge





LTE Band 5 / 1.4MHz / 16QAM

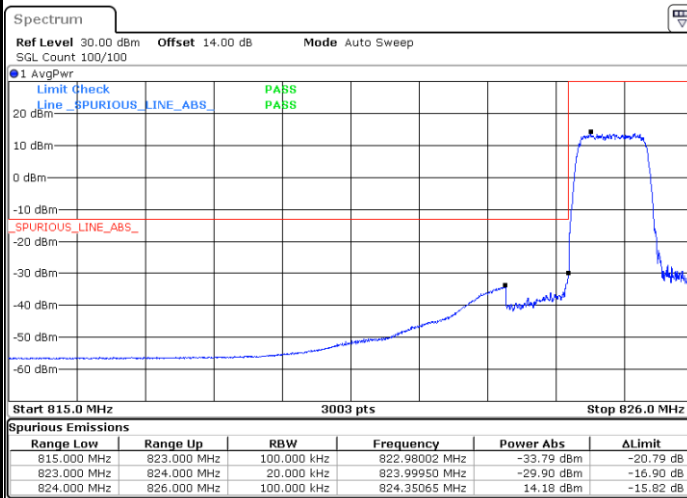
Lowest Band Edge / 1 RB



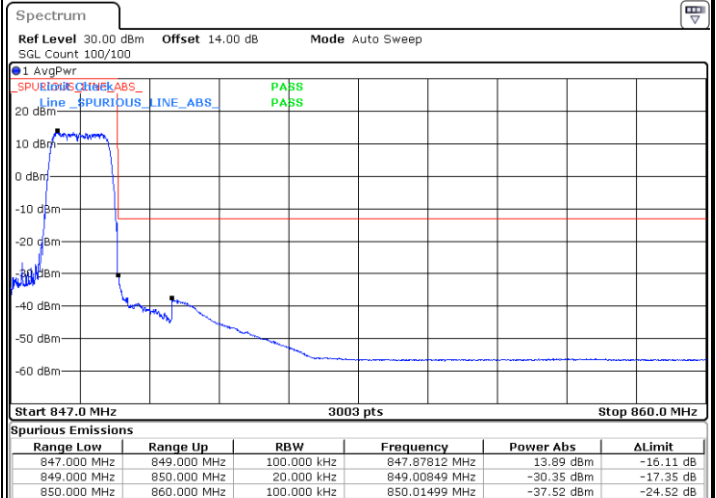
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



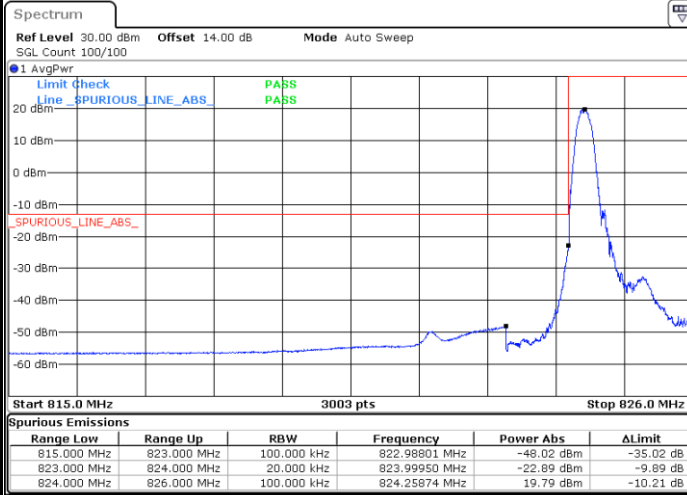
Highest Band Edge / Full RB





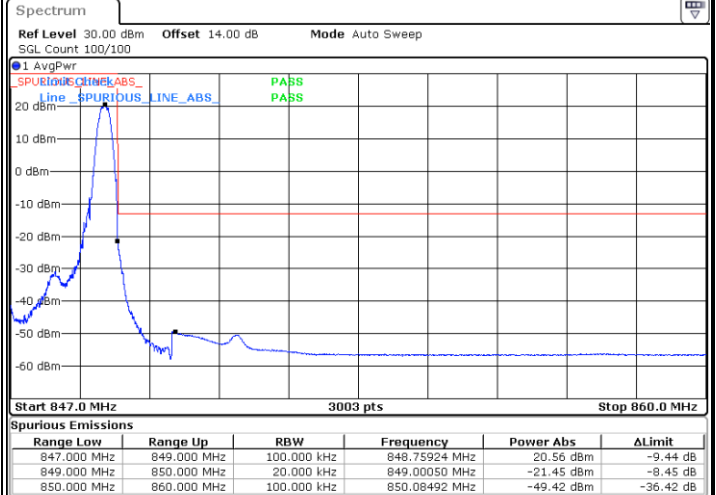
LTE Band 5 / 1.4MHz / 64QAM

Lowest Band Edge / 1 RB



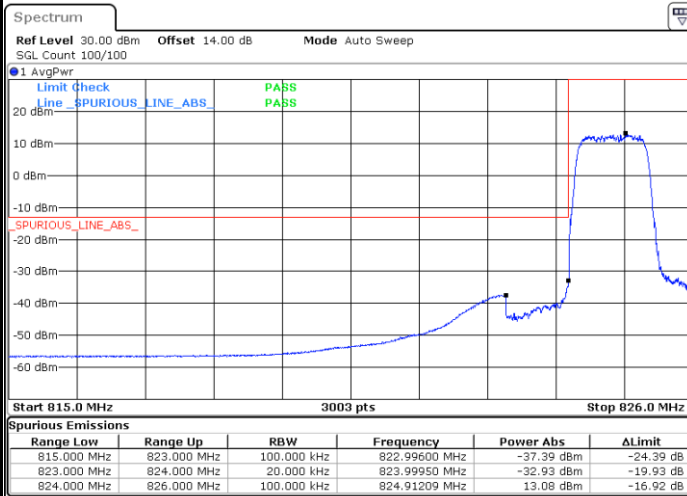
Date: 26.SEP.2023 00:53:40

Highest Band Edge / 1 RB



Date: 26.SEP.2023 01:02:27

Lowest Band Edge / Full RB



Date: 26.SEP.2023 00:56:08

Highest Band Edge / Full RB



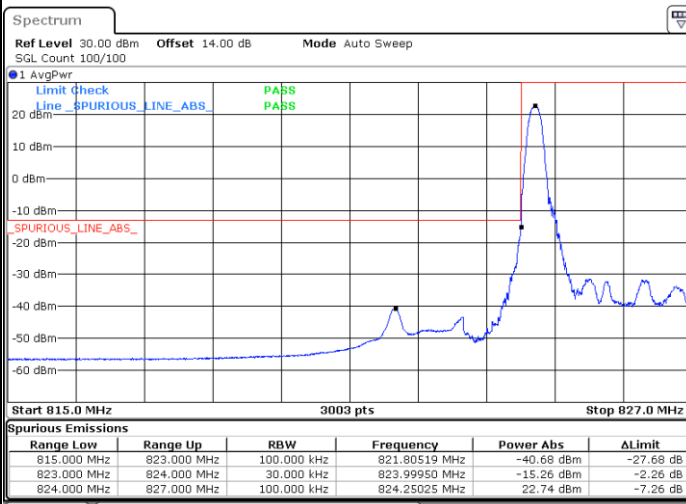
Date: 26.SEP.2023 01:05:02





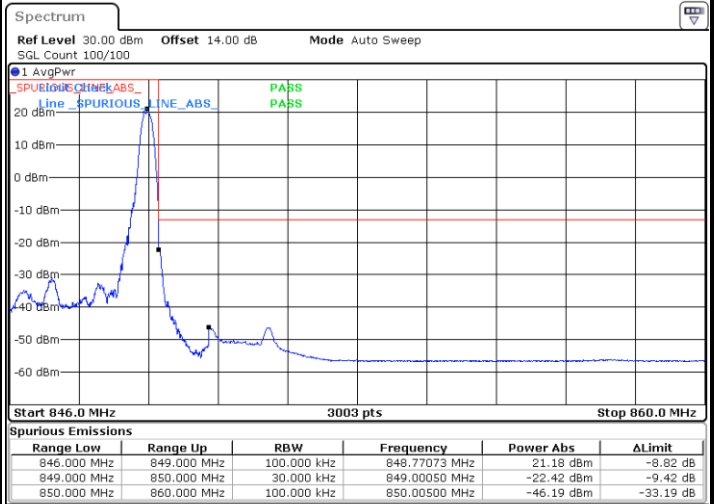
LTE Band 5 / 3MHz / QPSK

Lowest Band Edge / 1RB



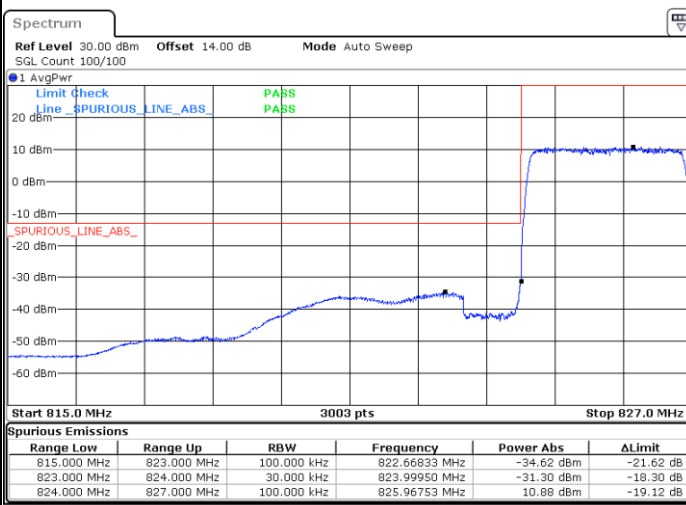
Date: 26.SEP.2023 01:08:54

Highest Band Edge / 1RB



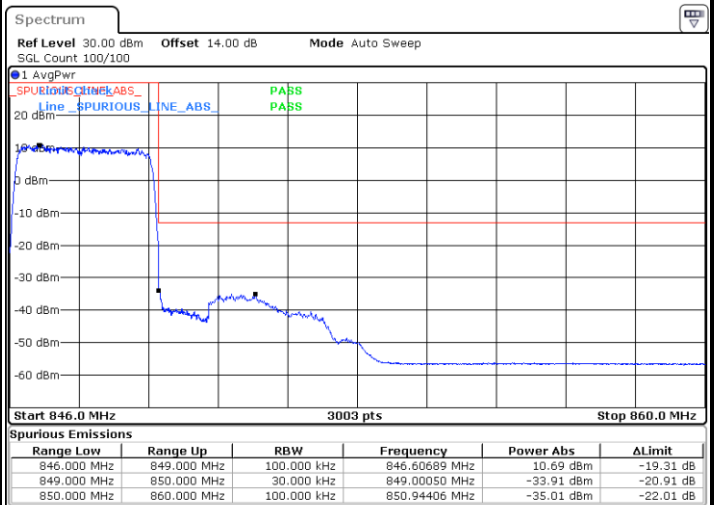
Date: 26.SEP.2023 01:17:40

Lowest Band Edge / Full RB



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

Highest Band Edge / Full RB

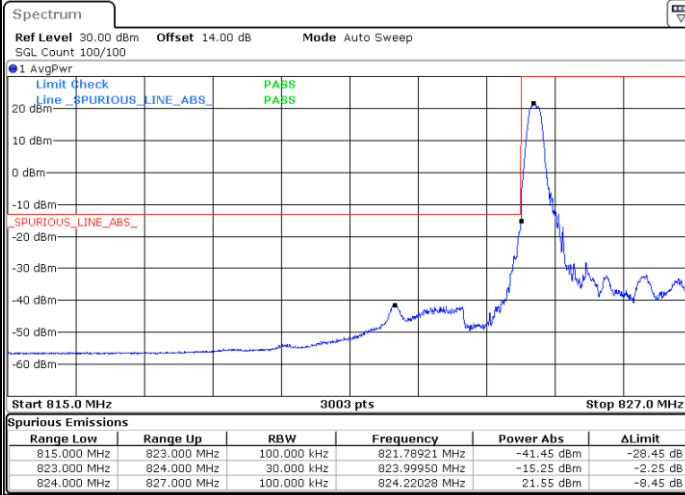


Date: 26.SEP.2023 01:20:17



LTE Band 5 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



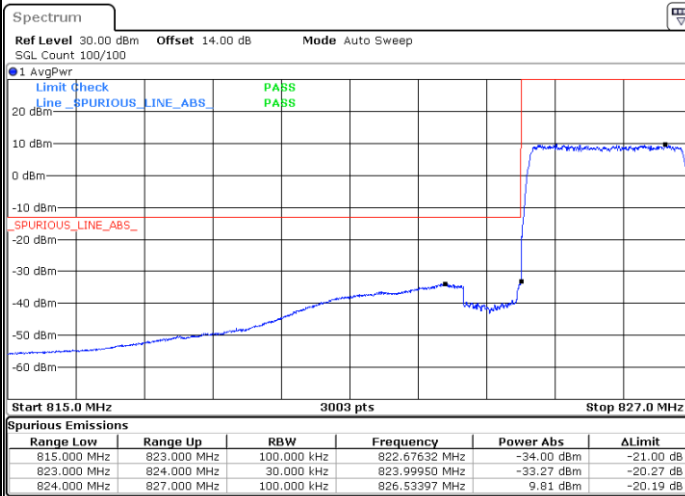
Date: 26.SEP.2023 01:09:43

Highest Band Edge / 1 RB



Date: 26.SEP.2023 01:18:33

Lowest Band Edge / Full RB



Date: 26.SEP.2023 01:12:11

Highest Band Edge / Full RB

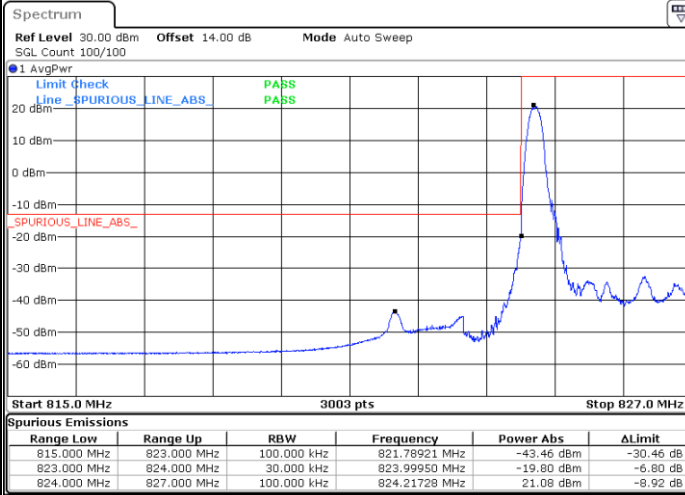


Date: 26.SEP.2023 01:21:08



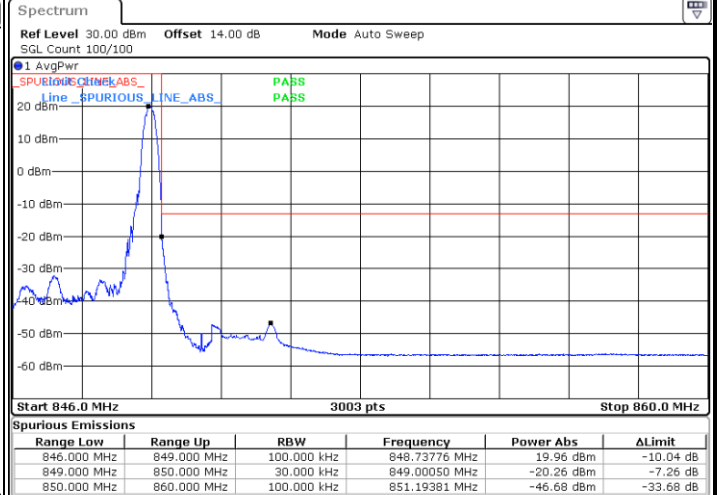
LTE Band 5 / 3MHz / 64QAM

Lowest Band Edge / 1 RB



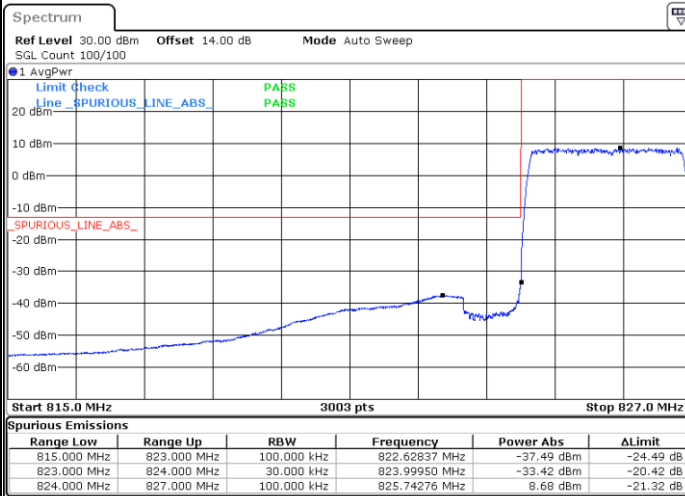
Date: 26.SEP.2023 01:10:33

Highest Band Edge / 1 RB



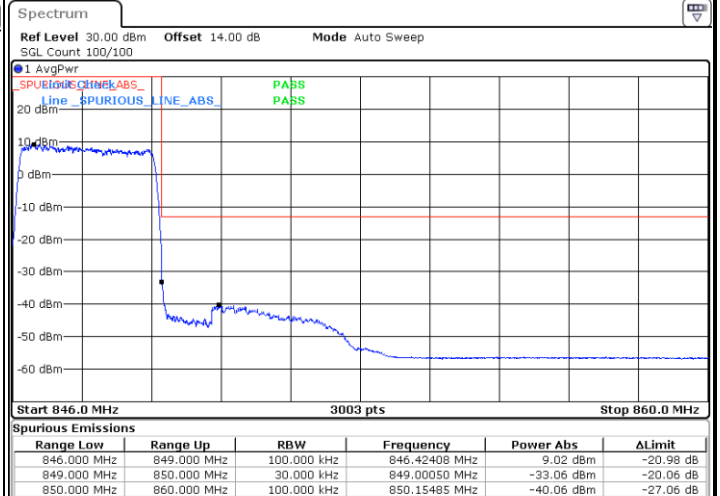
Date: 26.SEP.2023 01:19:25

Lowest Band Edge / Full RB



Date: 26.SEP.2023 01:13:00

Highest Band Edge / Full RB

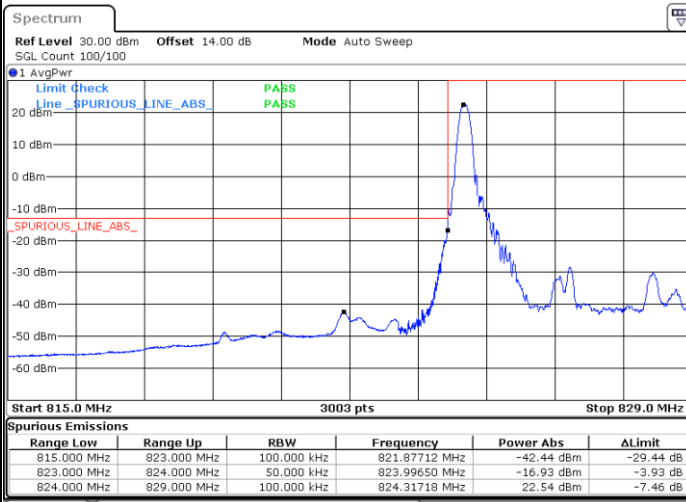


Date: 26.SEP.2023 01:22:00



LTE Band 5 / 5MHz / QPSK

Lowest Band Edge / 1RB



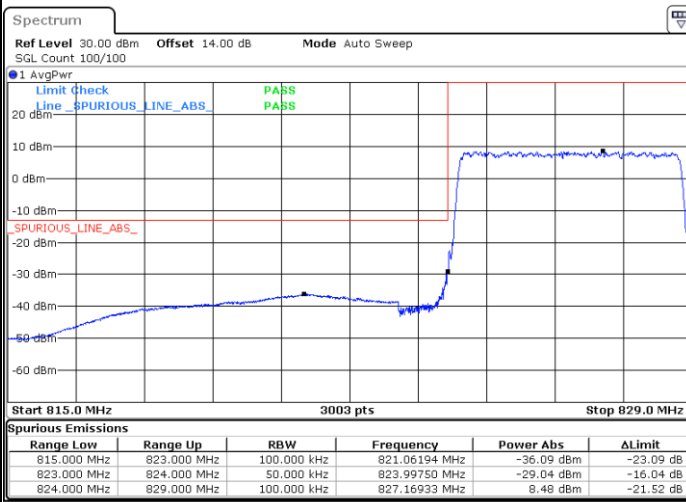
Date: 26.SEP.2023 01:29:10

Highest Band Edge / 1RB



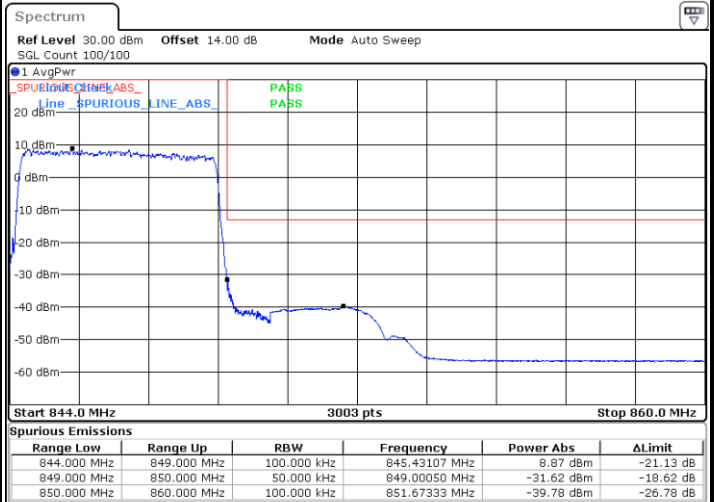
Date: 26.SEP.2023 01:37:51

Lowest Band Edge / Full RB



Date: 26.SEP.2023 01:31:38

Highest Band Edge / Full RB

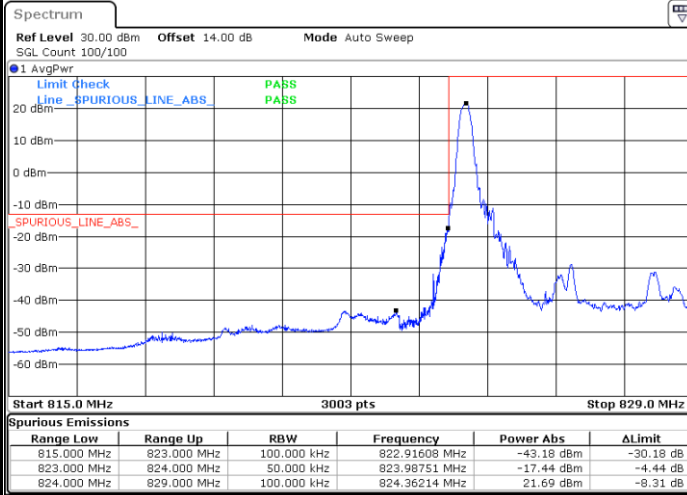


Date: 26.SEP.2023 01:40:26



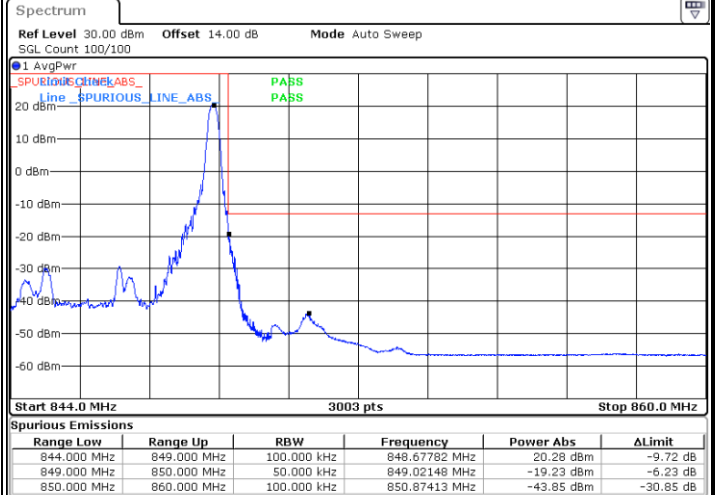
LTE Band 5 / 5MHz / 16QAM

Lowest Band Edge / 1 RB



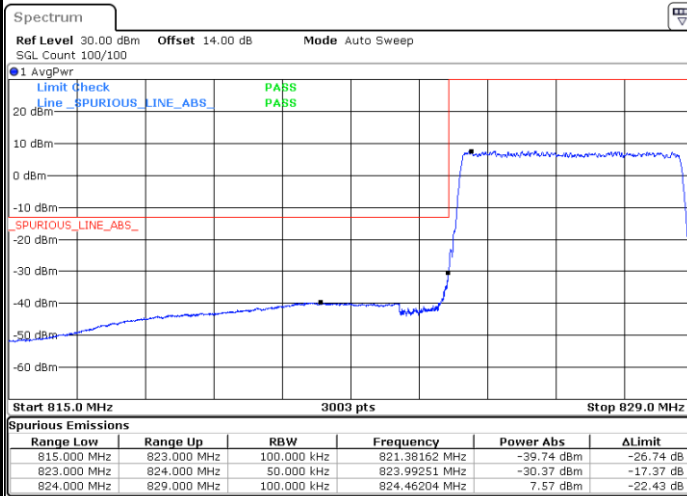
Date: 26.SEP.2023 01:30:00

Highest Band Edge / 1 RB



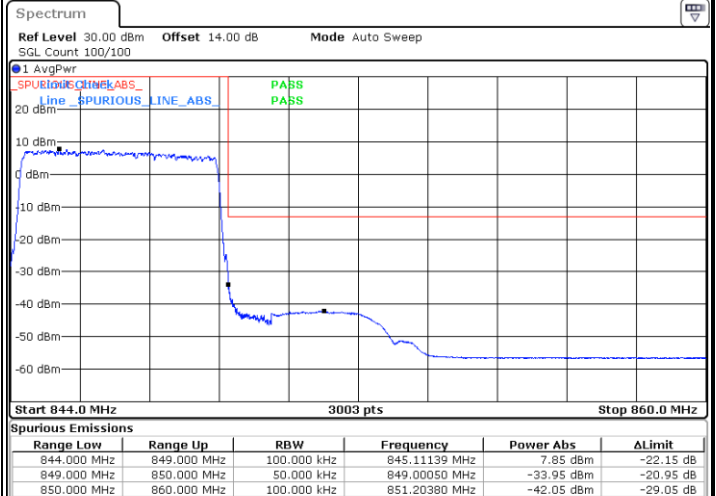
Date: 26.SEP.2023 01:38:42

Lowest Band Edge / Full RB



Date: 26.SEP.2023 01:32:27

Highest Band Edge / Full RB

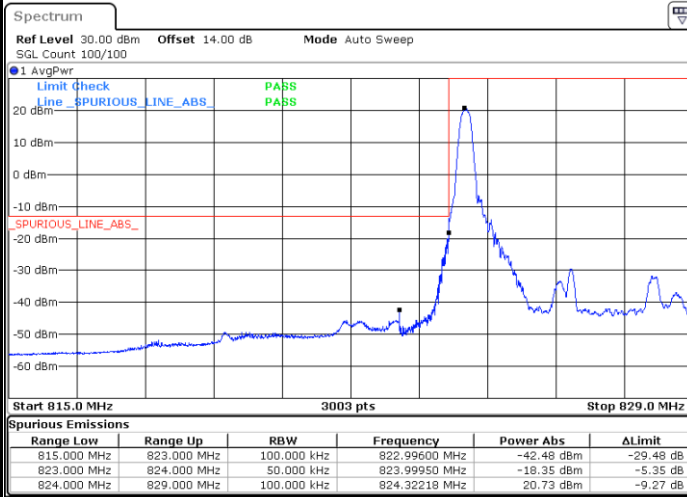


Date: 26.SEP.2023 01:41:18



LTE Band 5 / 5MHz / 64QAM

Lowest Band Edge / 1 RB



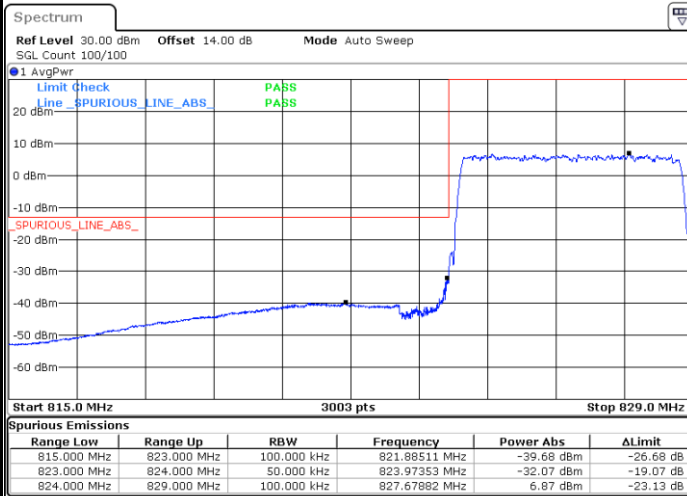
Date: 26.SEP.2023 01:30:49

Highest Band Edge / 1 RB



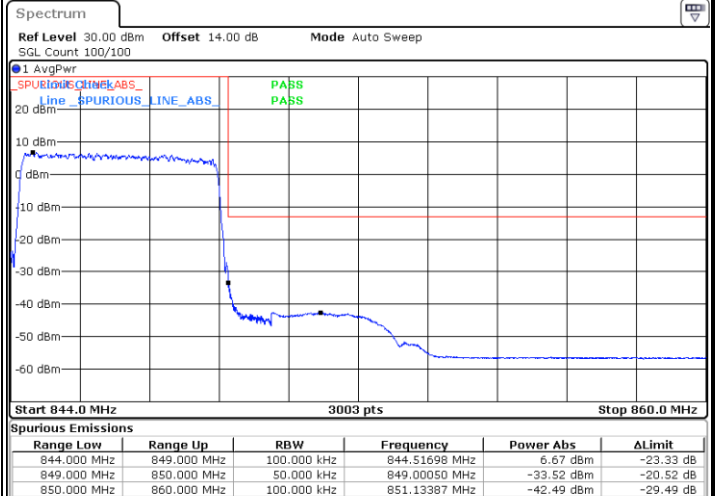
Date: 26.SEP.2023 01:39:34

Lowest Band Edge / Full RB



Date: 26.SEP.2023 01:33:16

Highest Band Edge / Full RB

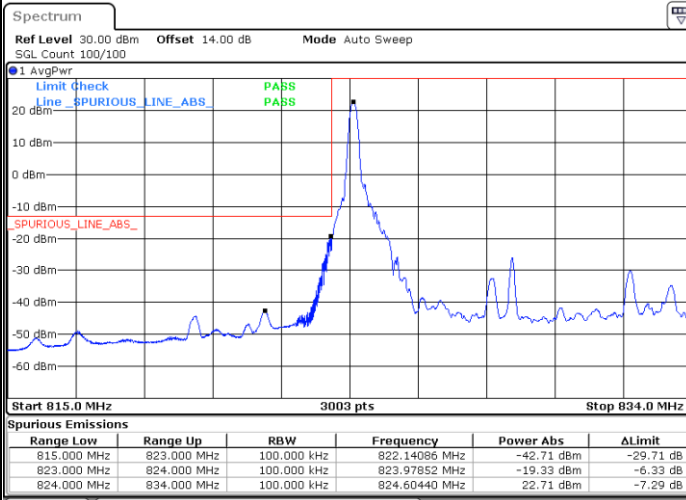


Date: 26.SEP.2023 01:42:09



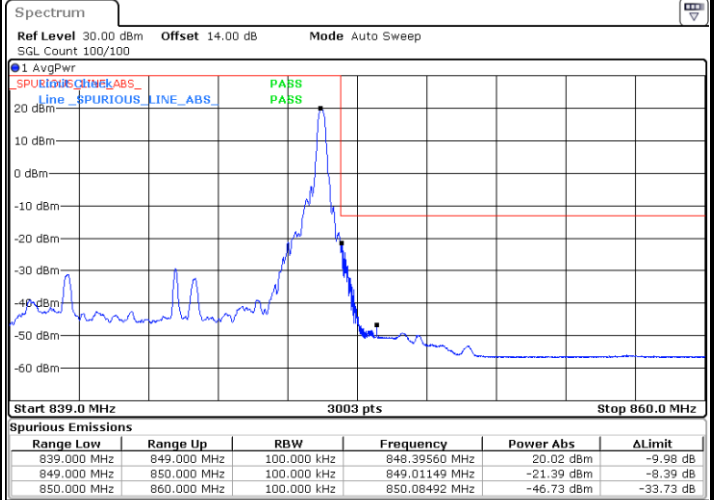
LTE Band 5 / 10MHz / QPSK

Lowest Band Edge / 1RB



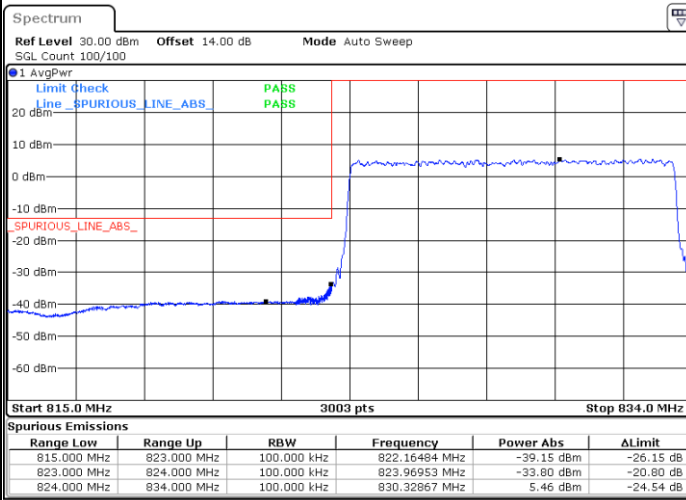
Date: 26.SEP.2023 01:46:02

Highest Band Edge / 1RB



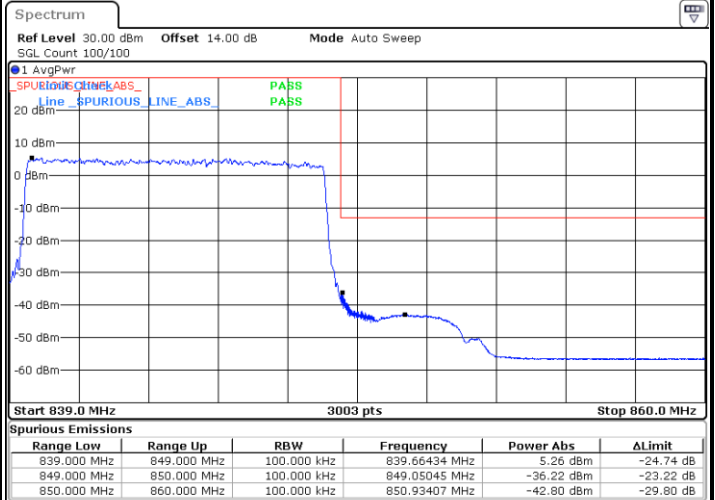
Date: 26.SEP.2023 01:56:12

Lowest Band Edge / Full RB



Date: 26.SEP.2023 01:48:30

Highest Band Edge / Full RB

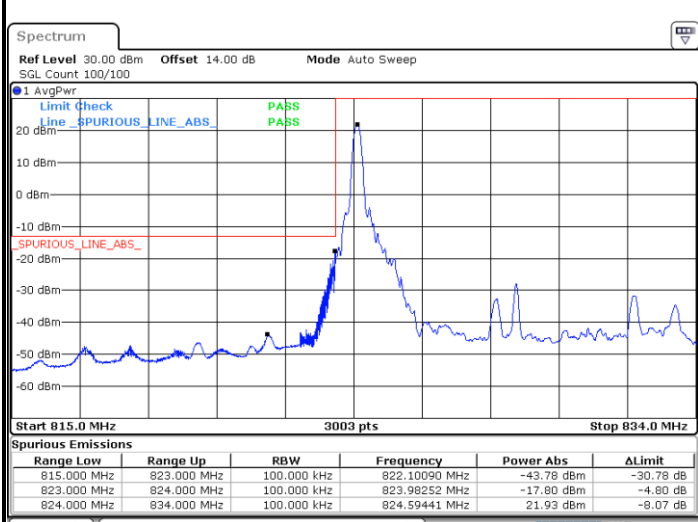


Date: 26.SEP.2023 01:58:48

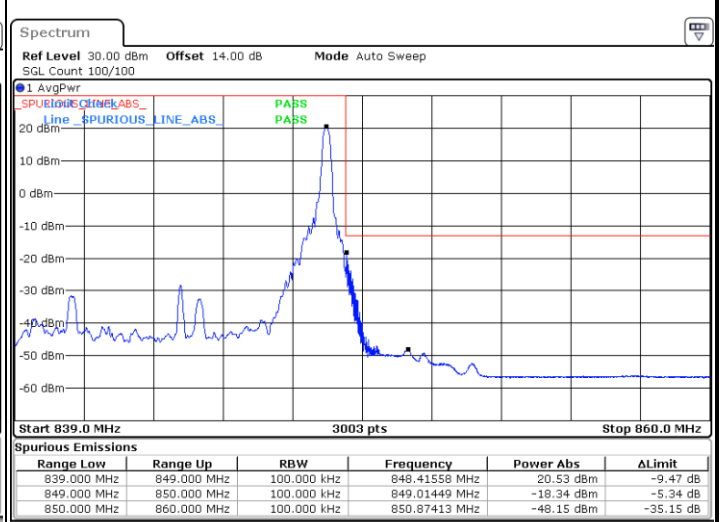


**LTE Band 5 / 10MHz / 16QAM**

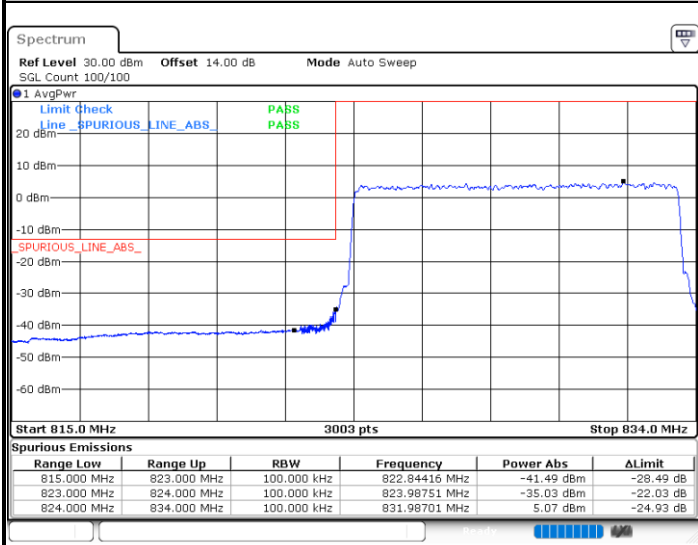
**Lowest Band Edge / 1 RB**



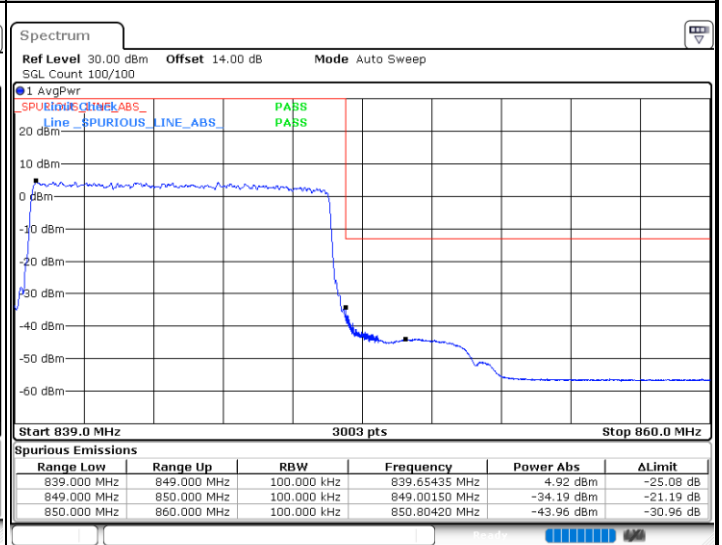
**Highest Band Edge / 1 RB**



**Lowest Band Edge / Full RB**



**Highest Band Edge / Full RB**

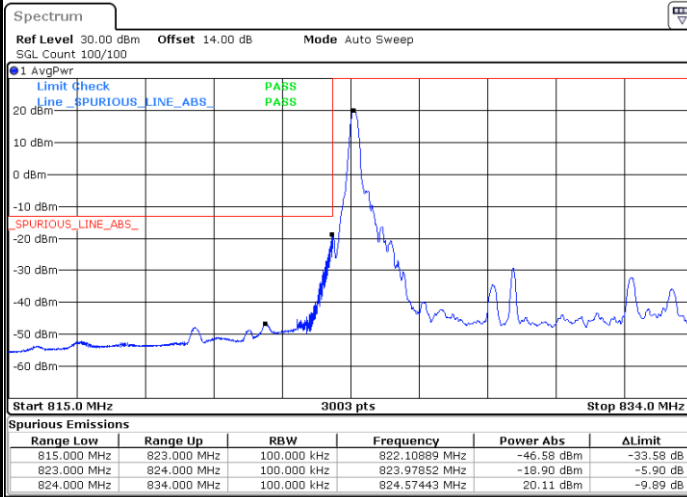






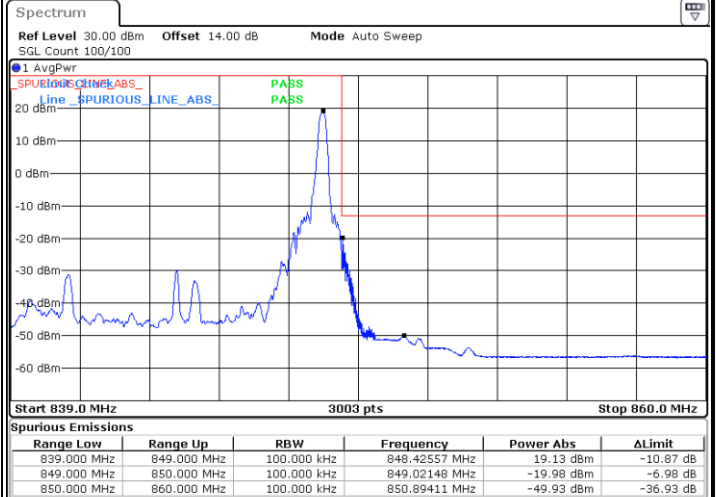
LTE Band 5 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



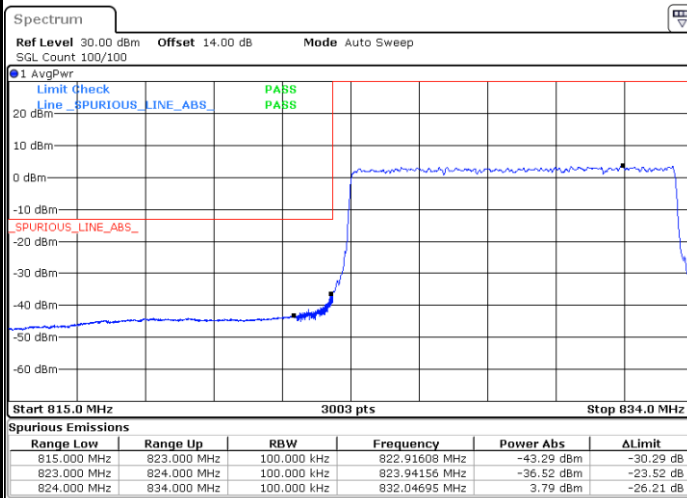
Date: 26.SEP.2023 01:47:41

Highest Band Edge / 1 RB



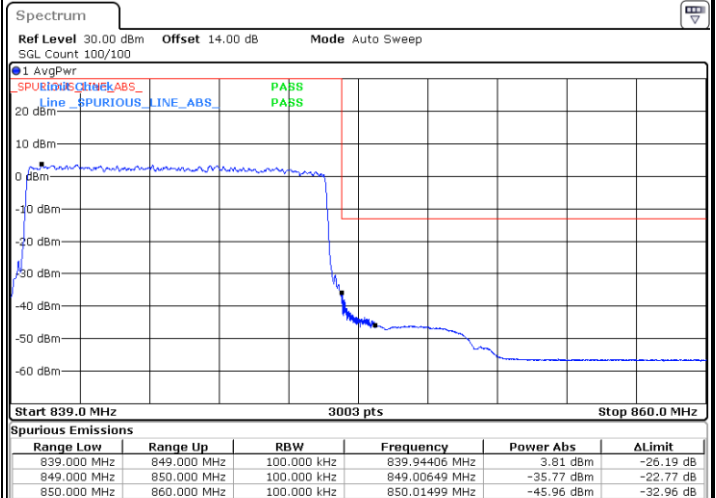
Date: 26.SEP.2023 01:57:55

Lowest Band Edge / Full RB



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

Highest Band Edge / Full RB



Date: 26.SEP.2023 02:00:31

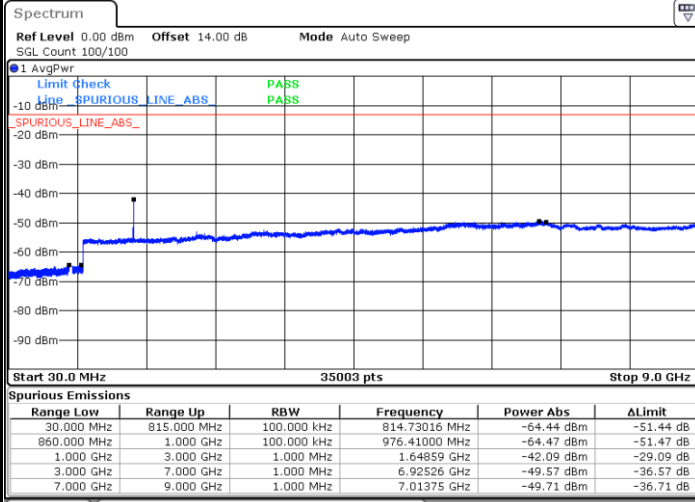


# Conducted Spurious Emission

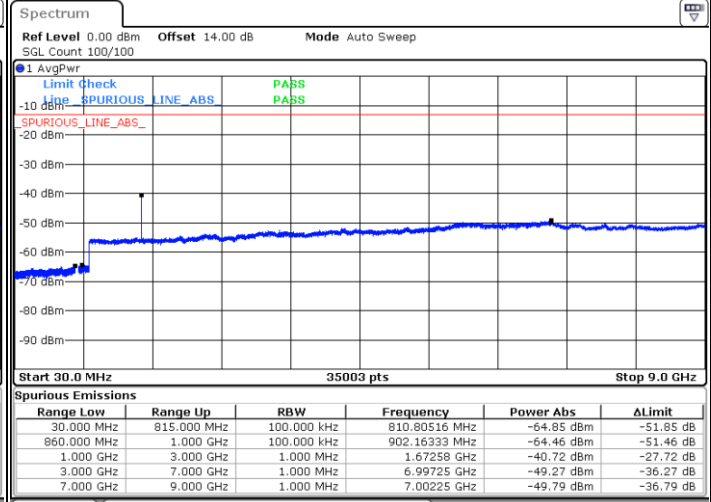
## LTE Band 5 / 1.4MHz

### Lowest Channel / QPSK

### Middle Channel / QPSK

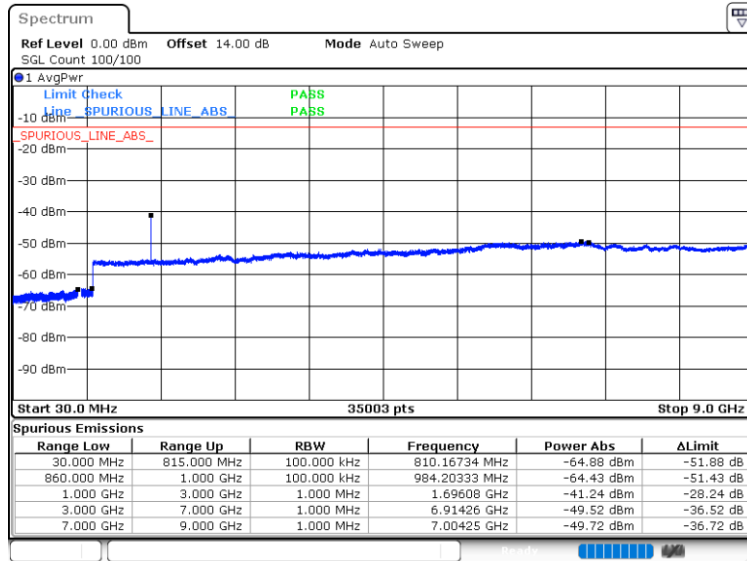


Date: 26.SEP.2023 00:57:17



Date: 26.SEP.2023 00:58:26

### Highest Channel / QPSK

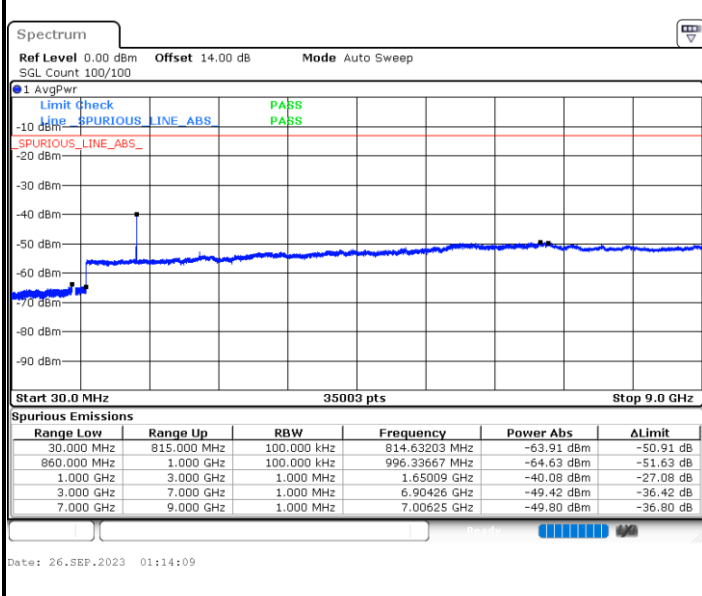


Date: 26.SEP.2023 01:06:11

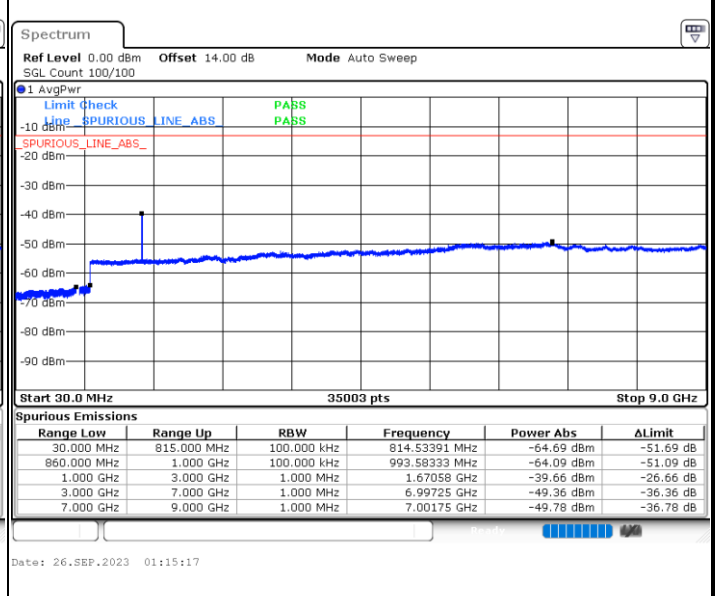


**LTE Band 5 / 3MHz**

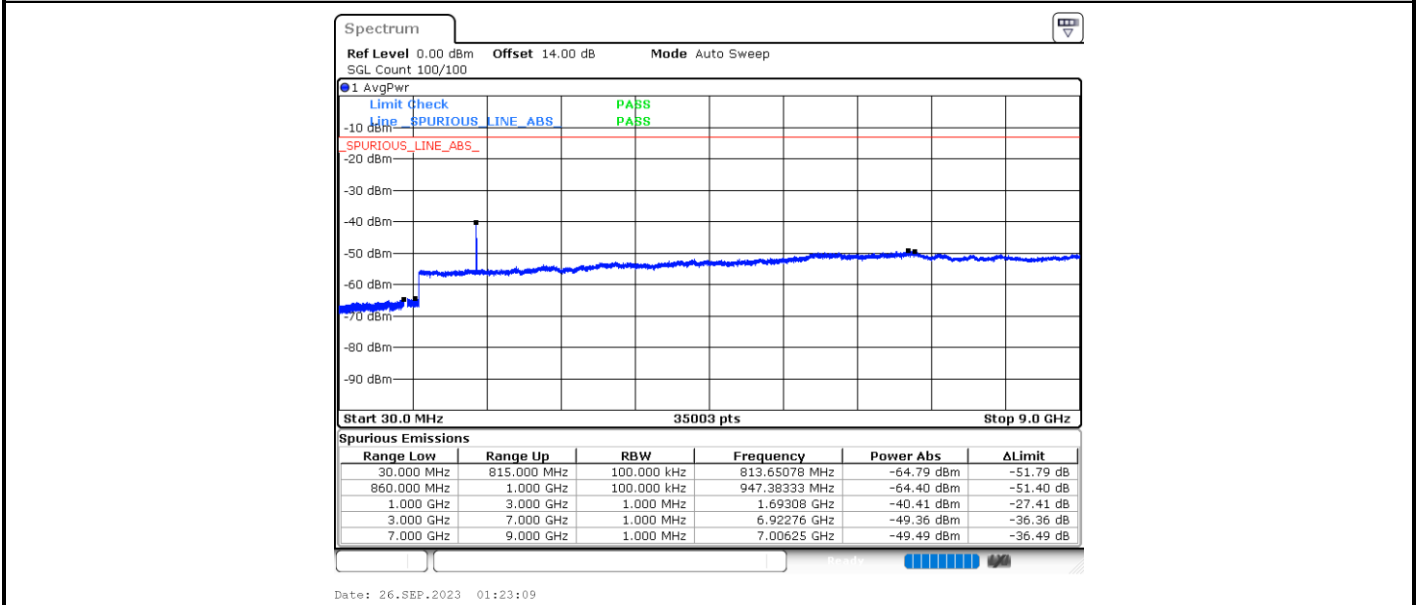
**Lowest Channel / QPSK**



**Middle Channel / QPSK**



**Highest Channel / QPSK**

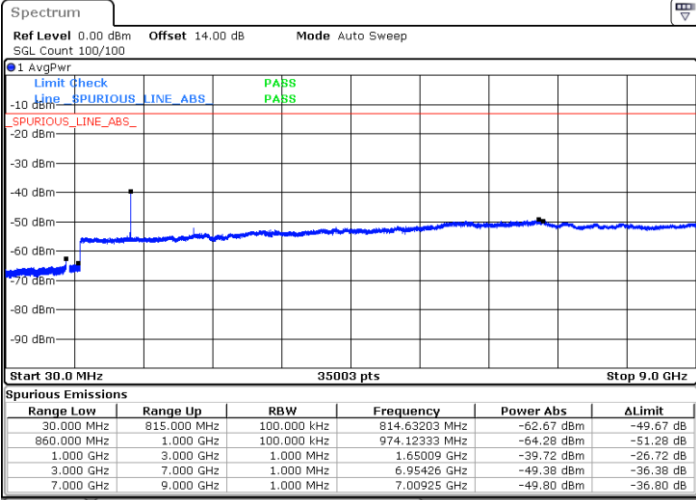




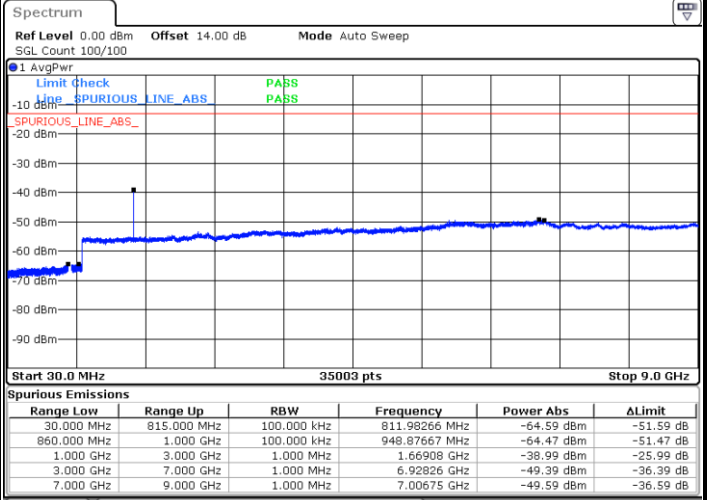
LTE Band 5 / 5MHz

Lowest Channel / QPSK

Middle Channel / QPSK

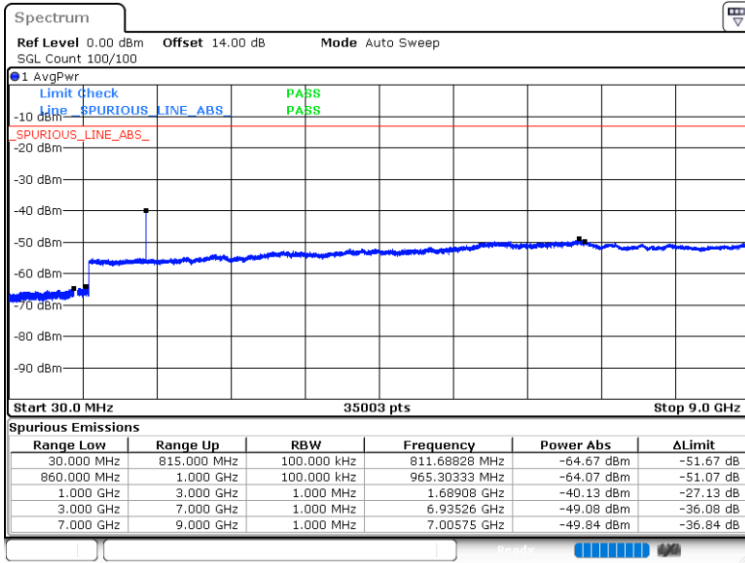


Date: 26.SEP.2023 01:34:25



Date: 26.SEP.2023 01:35:33

Highest Channel / QPSK



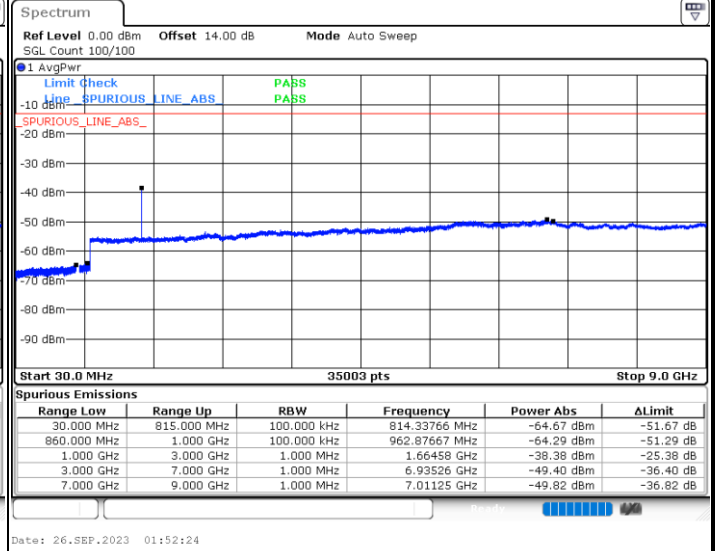
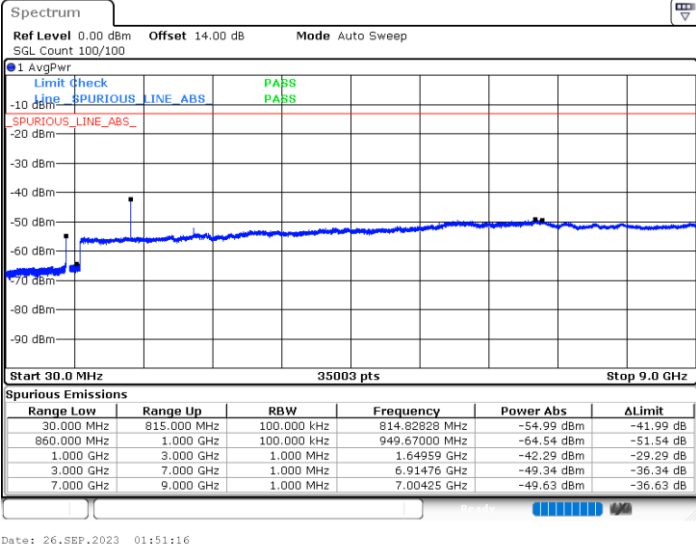
Date: 26.SEP.2023 01:43:18



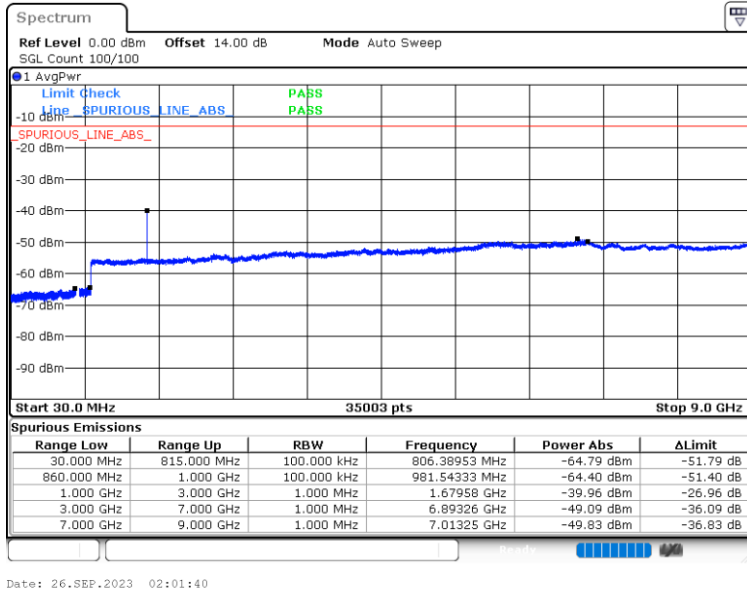
LTE Band 5 / 10MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK





### Frequency Stability

Test Conditions		LTE Band 5 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	2.5ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0001	PASS
40	Normal Voltage	0.0006	
30	Normal Voltage	0.0016	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0008	
0	Normal Voltage	0.0006	
-10	Normal Voltage	0.0018	
-20	Normal Voltage	0.0013	
-30	Normal Voltage	0.0012	
20	Maximum Voltage	0.0016	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0011	

**Note:**

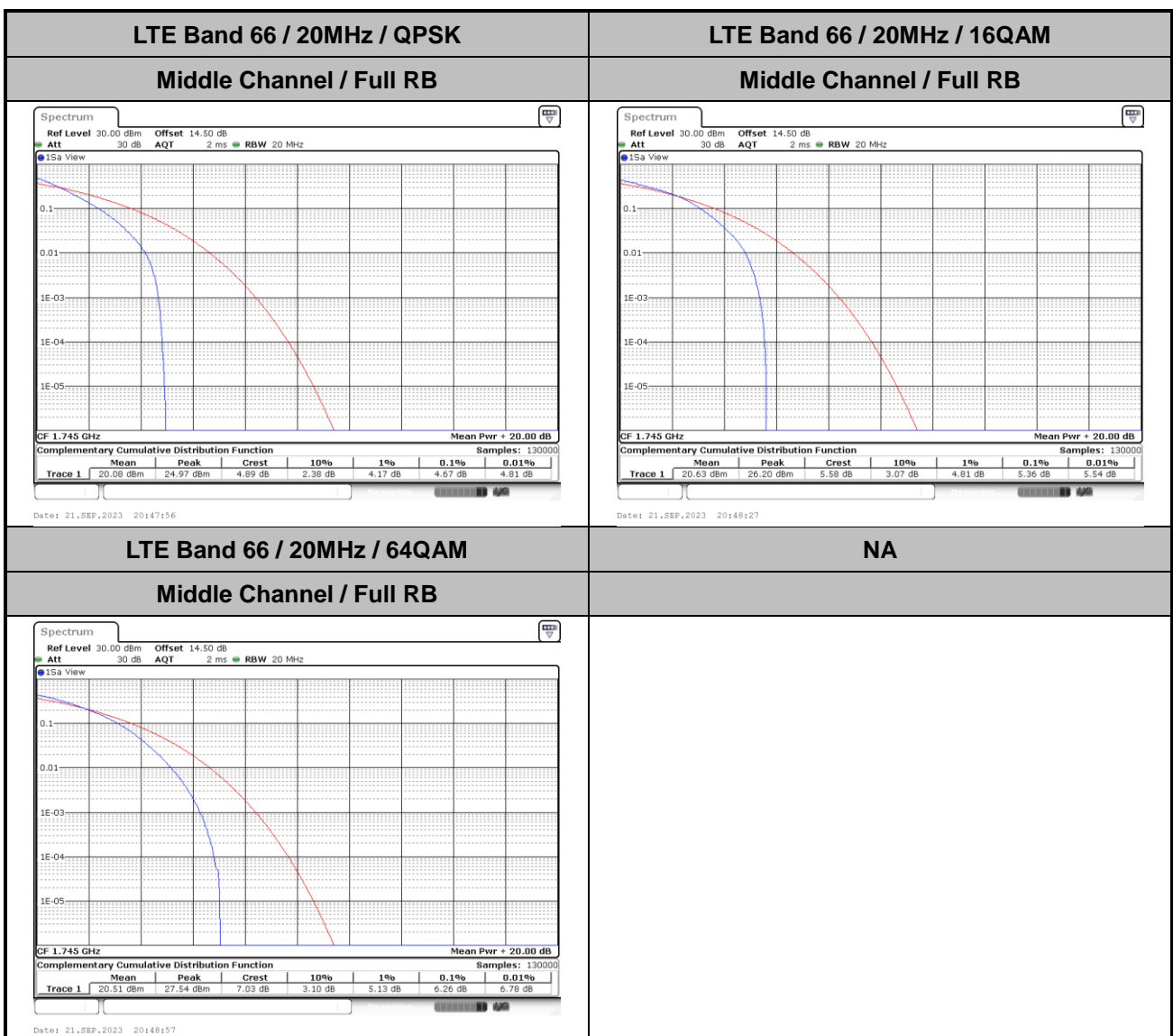
1. Normal Voltage = 3.89 V. ; Battery End Point (BEP) = 3.45 V. ; Maximum Voltage = 4.45 V.



# LTE Band 66

## Peak-to-Average Ratio

Mode	LTE Band 66 / 20MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	4.67	5.36	6.26	PASS





## 26dB Bandwidth

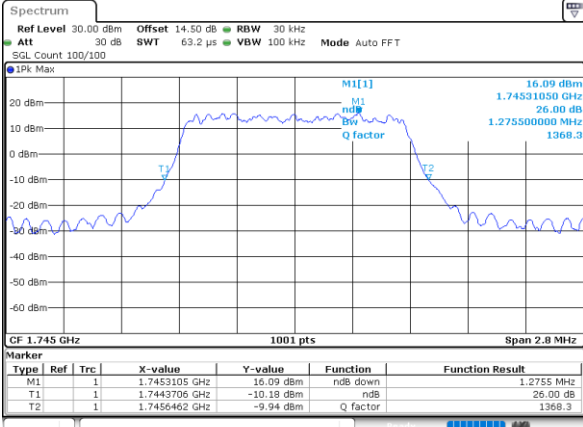
Mode	LTE Band 66 : 26dB BW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	1.28	1.28	2.96	3.00	4.91	4.86	9.69	9.61	14.36	14.21	18.98	18.78





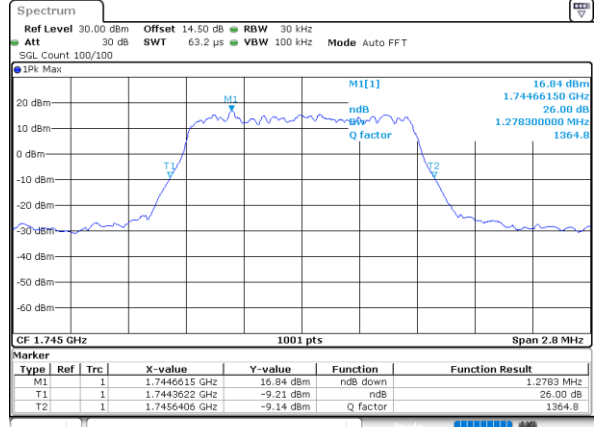
LTE Band 66

Middle Channel / 1.4MHz / QPSK



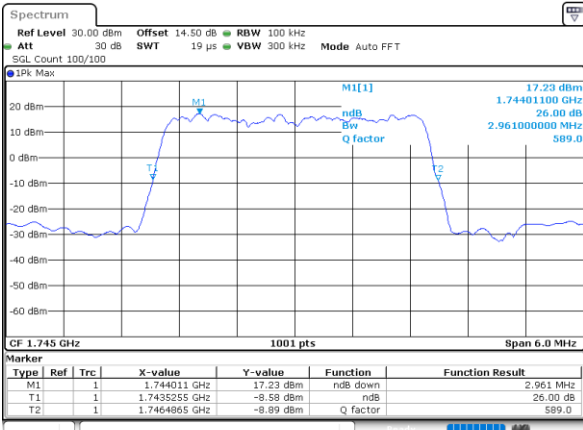
Date: 21\_SEP.2023 19:46:12

Middle Channel / 1.4MHz / 16QAM



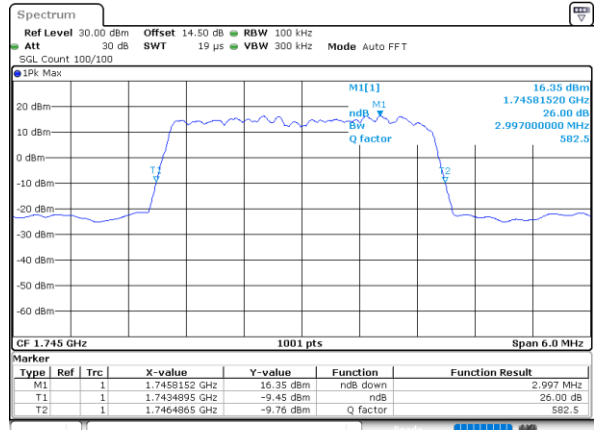
Date: 21\_SEP.2023 19:46:52

Middle Channel / 3MHz / QPSK



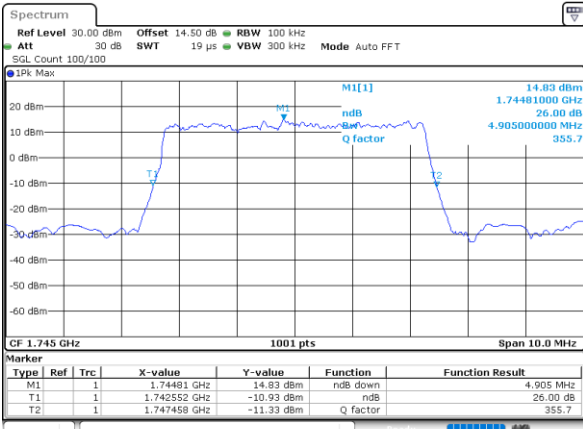
Date: 21\_SEP.2023 19:18:00

Middle Channel / 3MHz / 16QAM



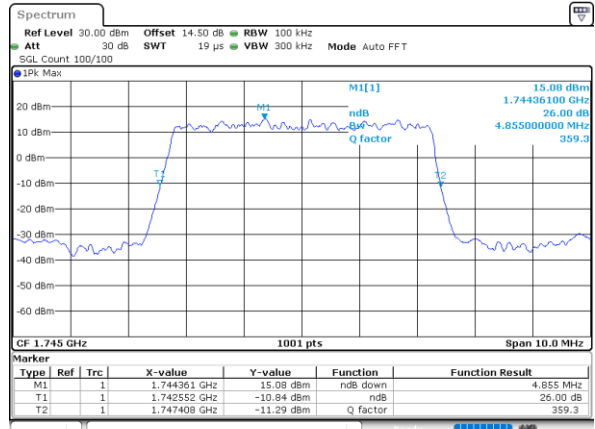
Date: 21\_SEP.2023 19:18:43

Middle Channel / 5MHz / QPSK



Date: 21\_SEP.2023 19:38:49

Middle Channel / 5MHz / 16QAM

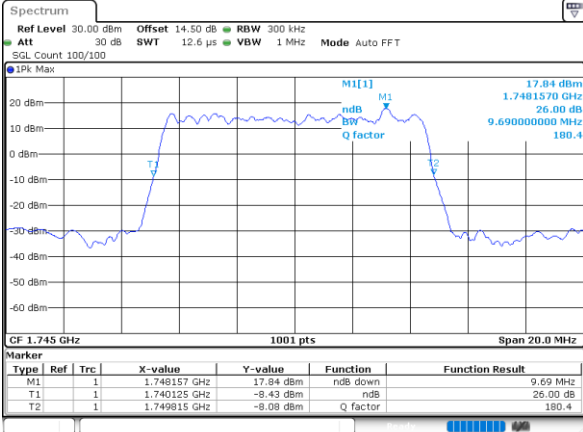


Date: 21\_SEP.2023 19:39:32



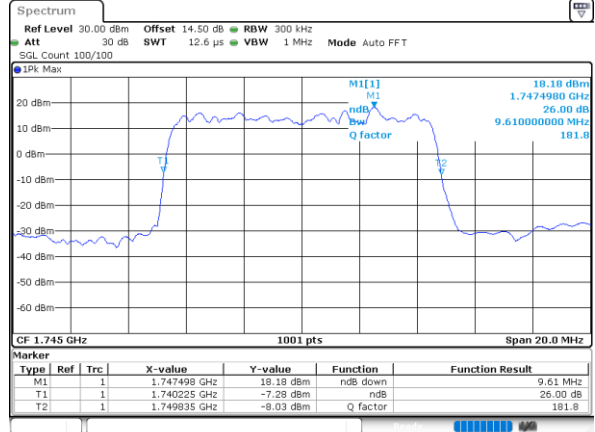
LTE Band 66

Middle Channel / 10MHz / QPSK



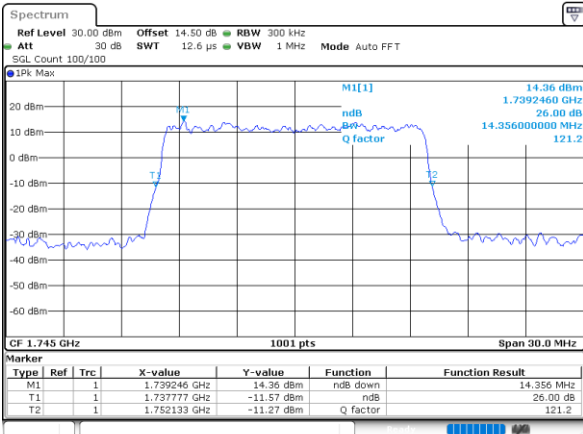
Date: 21.SEP.2023 20:01:27

Middle Channel / 10MHz / 16QAM



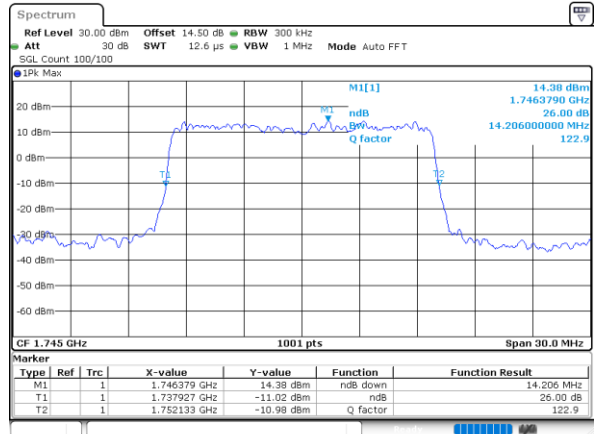
Date: 21.SEP.2023 20:02:10

Middle Channel / 15MHz / QPSK



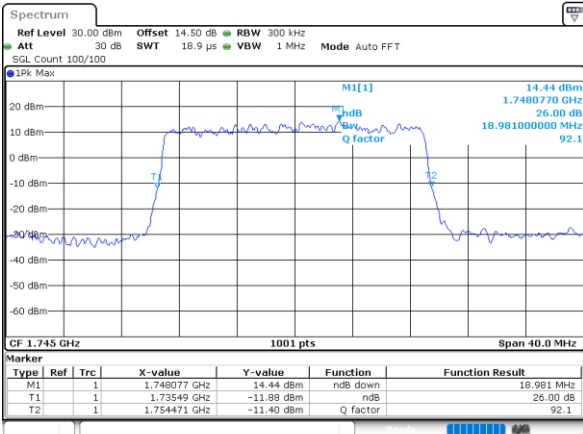
Date: 21.SEP.2023 20:24:04

Middle Channel / 15MHz / 16QAM



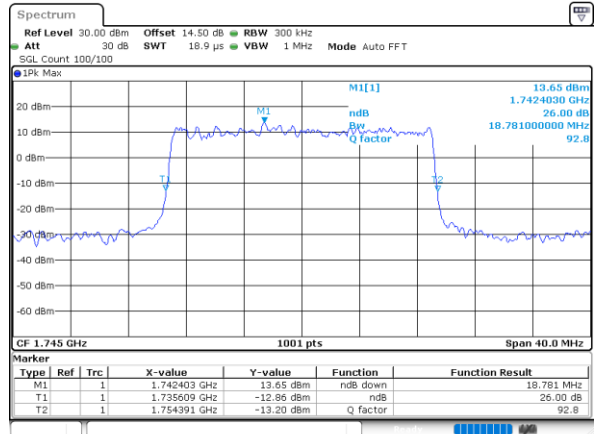
Date: 21.SEP.2023 20:24:47

Middle Channel / 20MHz / QPSK



Date: 21.SEP.2023 20:46:42

Middle Channel / 20MHz / 16QAM



Date: 21.SEP.2023 20:47:25



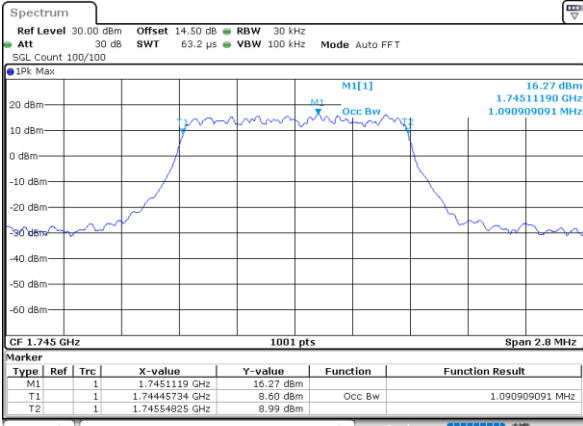
## Occupied Bandwidth

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	1.11	2.72	2.71	4.49	4.47	8.99	9.05	13.40	13.40	17.86	17.90



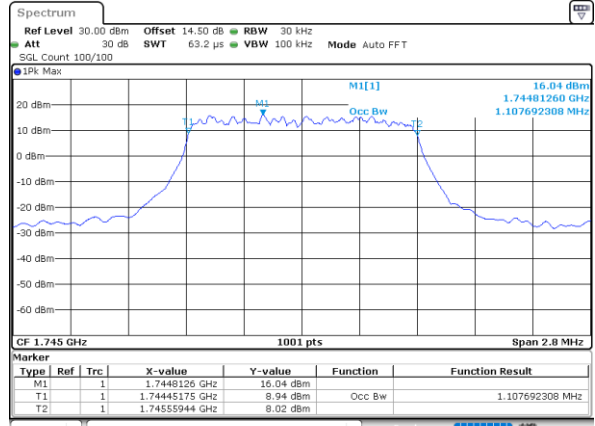
LTE Band 66

Middle Channel / 1.4MHz / QPSK



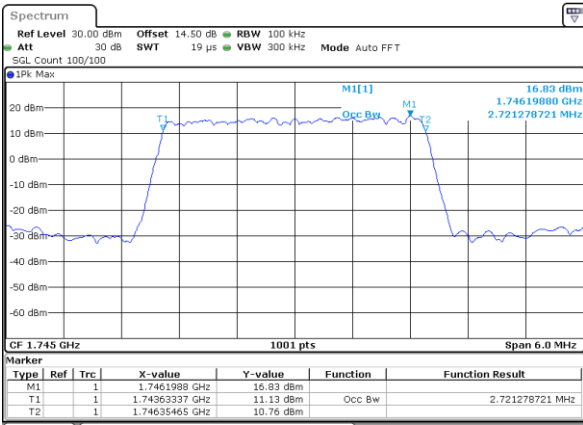
Date: 21.SEP.2023 18:45:58

Middle Channel / 1.4MHz / 16QAM



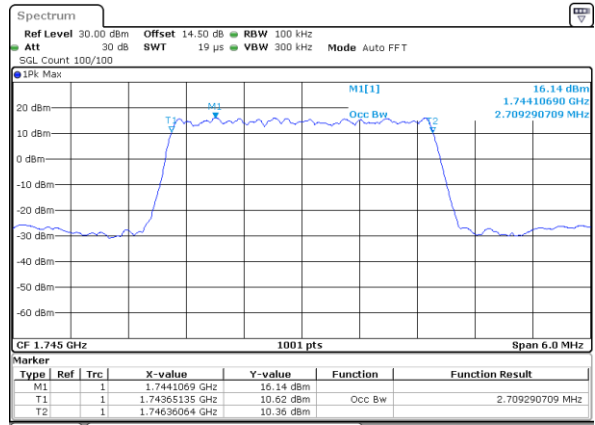
Date: 21.SEP.2023 18:46:38

Middle Channel / 3MHz / QPSK



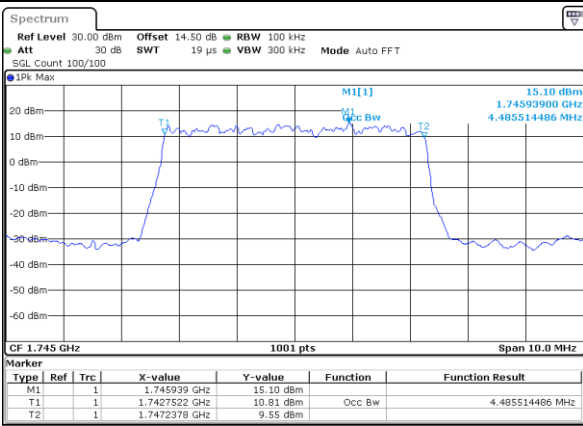
Date: 21.SEP.2023 19:17:46

Middle Channel / 3MHz / 16QAM



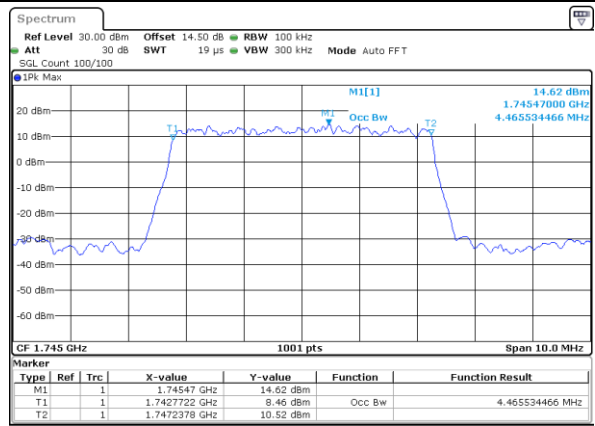
Date: 21.SEP.2023 19:18:29

Middle Channel / 5MHz / QPSK



Date: 21.SEP.2023 19:38:34

Middle Channel / 5MHz / 16QAM

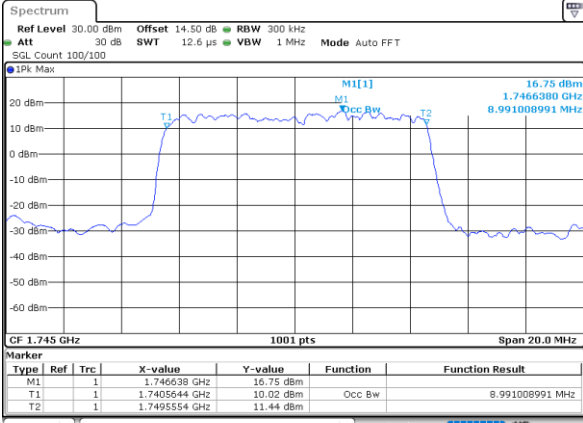


Date: 21.SEP.2023 19:39:18



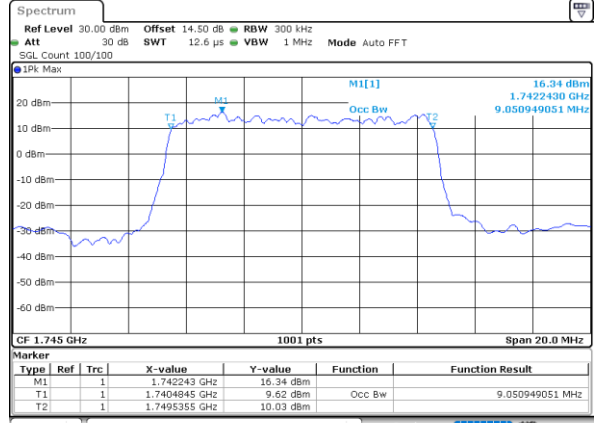
LTE Band 66

Middle Channel / 10MHz / QPSK



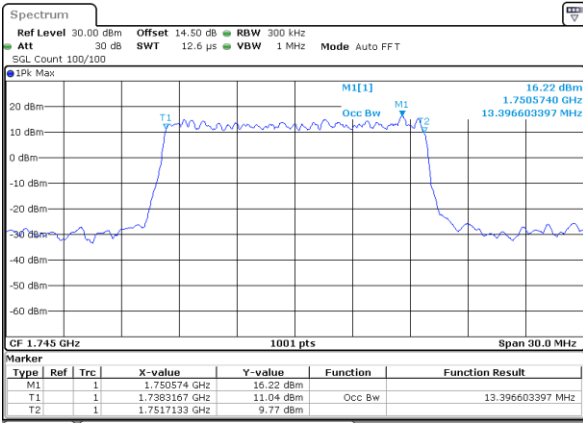
Date: 21.SEP.2023 20:01:13

Middle Channel / 10MHz / 16QAM



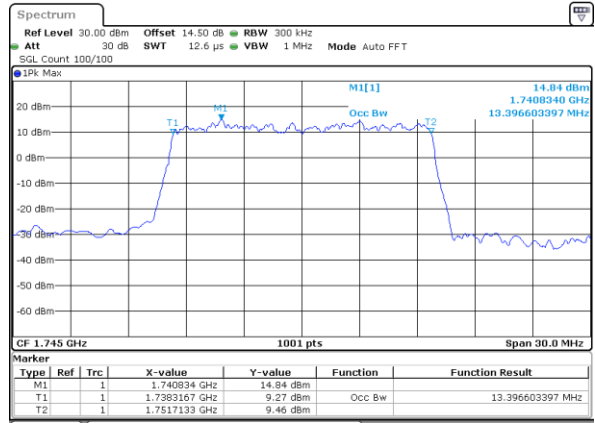
Date: 21.SEP.2023 20:01:56

Middle Channel / 15MHz / QPSK



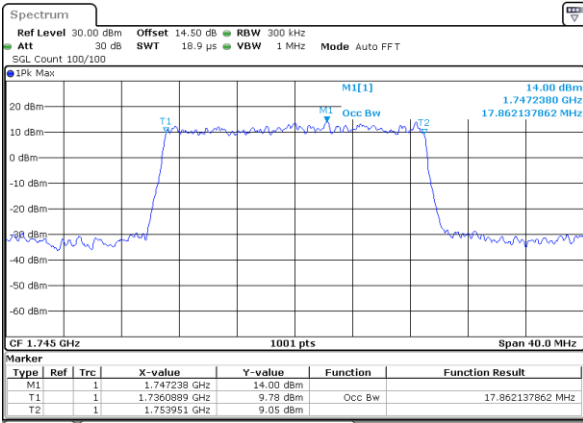
Date: 21.SEP.2023 20:23:50

Middle Channel / 15MHz / 16QAM



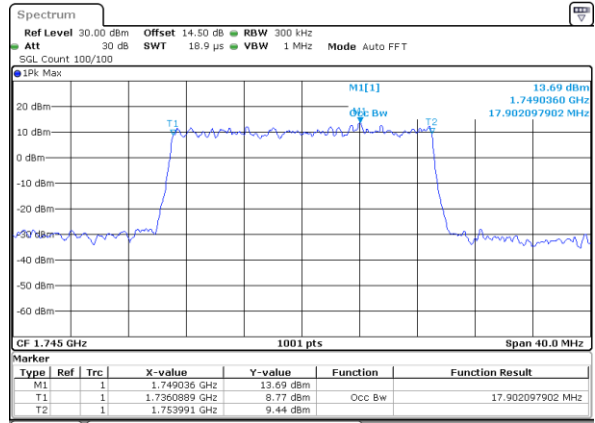
Date: 21.SEP.2023 20:24:33

Middle Channel / 20MHz / QPSK



Date: 21.SEP.2023 20:46:28

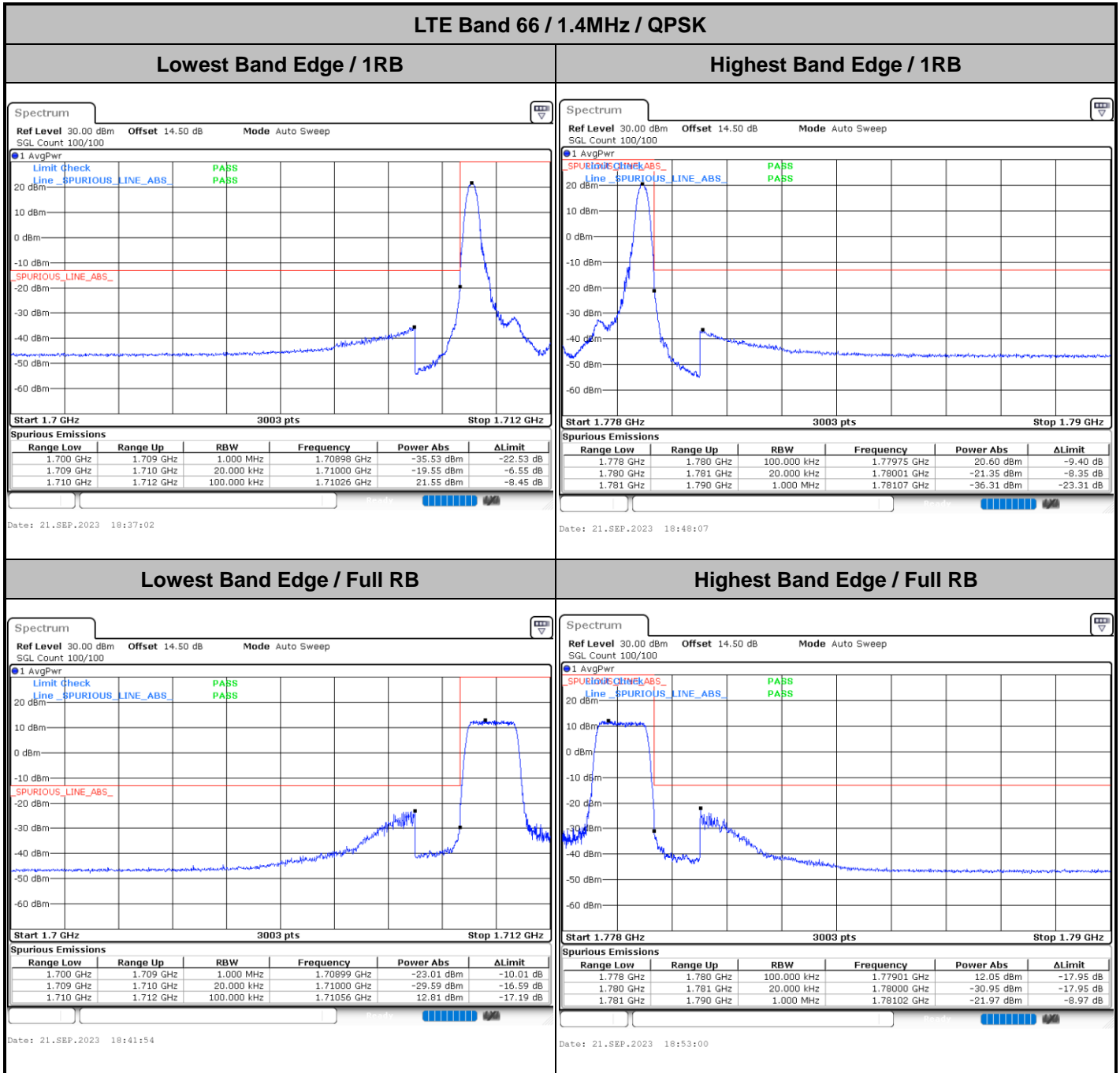
Middle Channel / 20MHz / 16QAM



Date: 21.SEP.2023 20:47:11



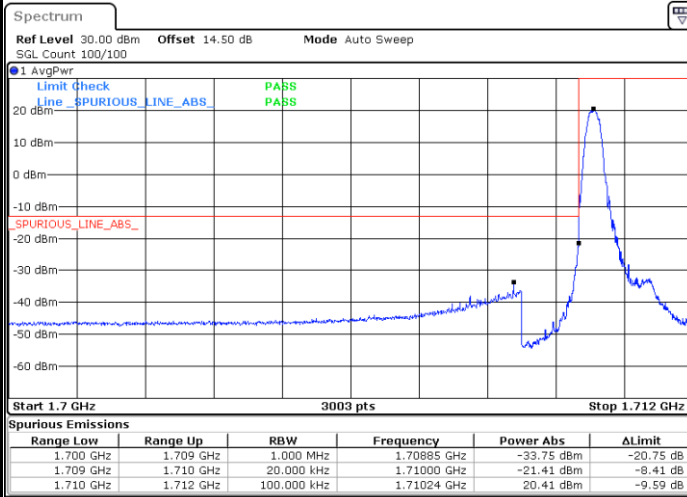
# Conducted Band Edge





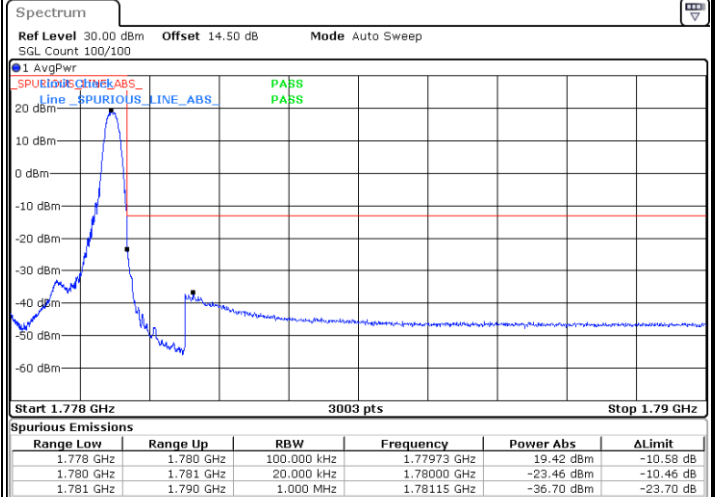
LTE Band 66 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



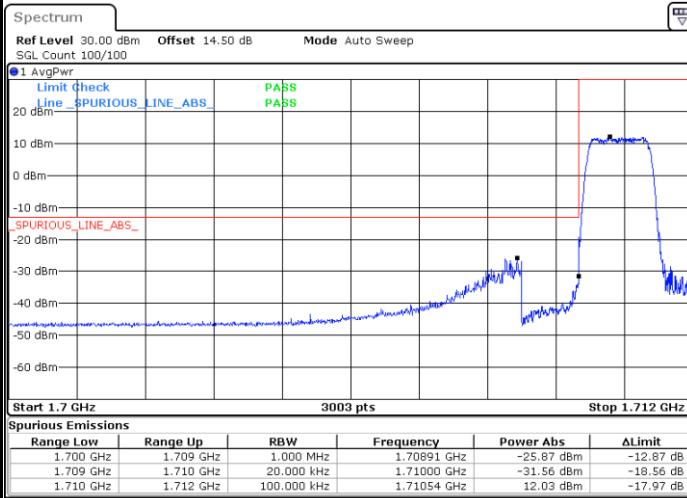
Date: 21.SEP.2023 18:38:17

Highest Band Edge / 1 RB



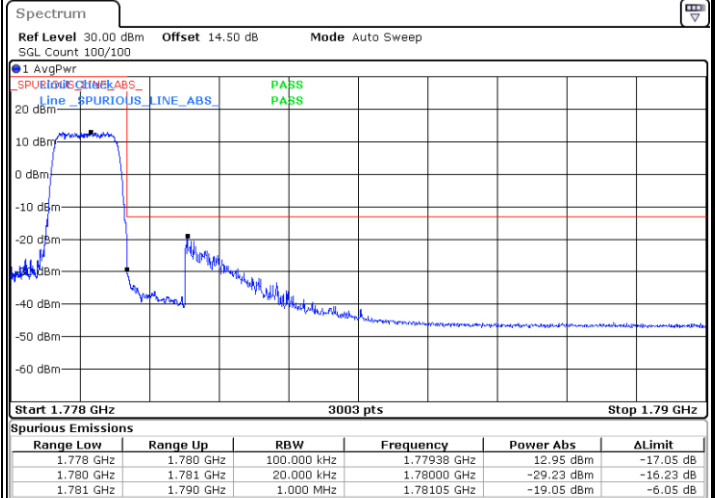
Date: 21.SEP.2023 18:49:23

Lowest Band Edge / Full RB



Date: 21.SEP.2023 18:43:10

Highest Band Edge / Full RB

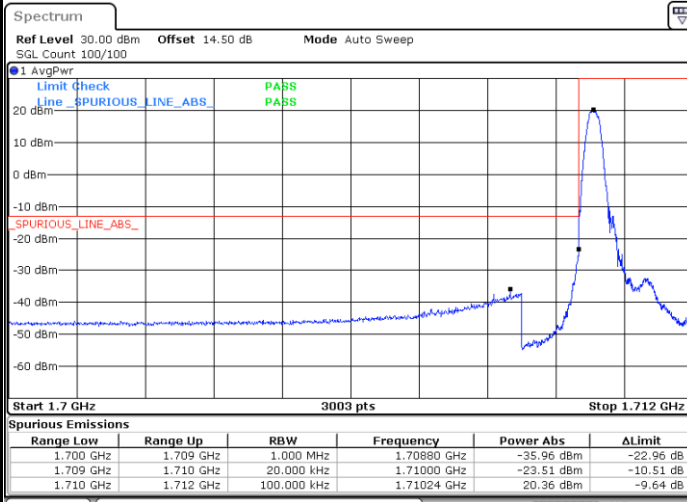


Date: 21.SEP.2023 18:54:16



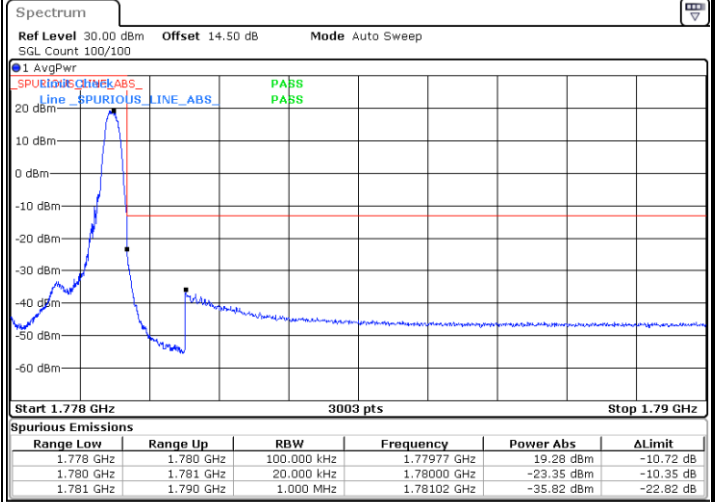
LTE Band 66 / 1.4MHz / 64QAM

Lowest Band Edge / 1 RB



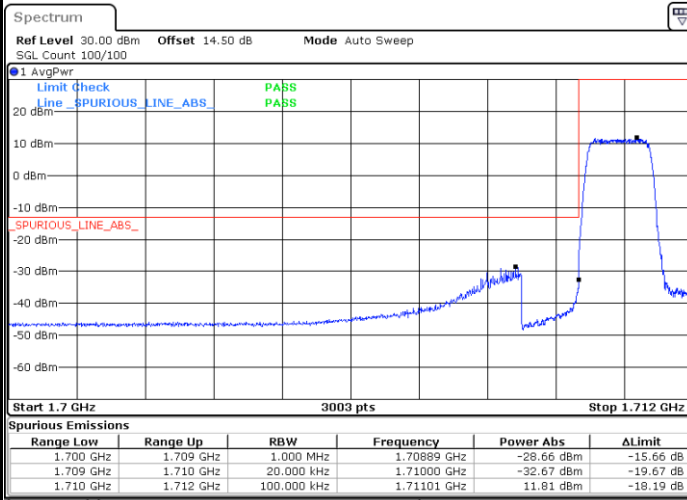
Date: 21.SEP.2023 18:39:33

Highest Band Edge / 1 RB



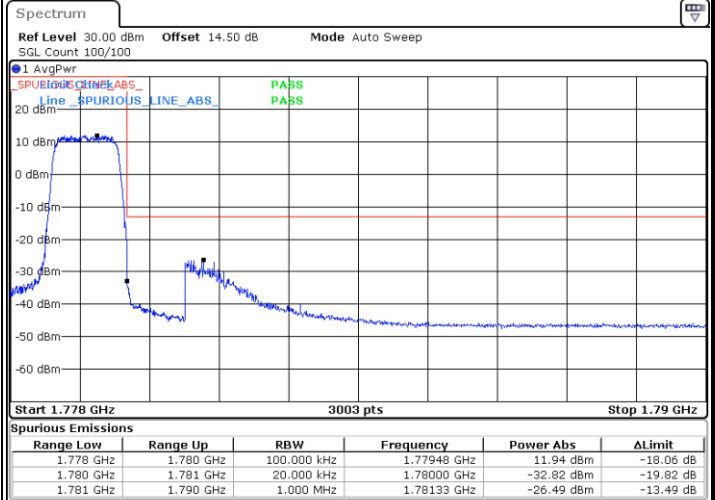
Date: 21.SEP.2023 18:50:39

Lowest Band Edge / Full RB



Date: 21.SEP.2023 18:44:26

Highest Band Edge / Full RB



Date: 21.SEP.2023 18:55:32