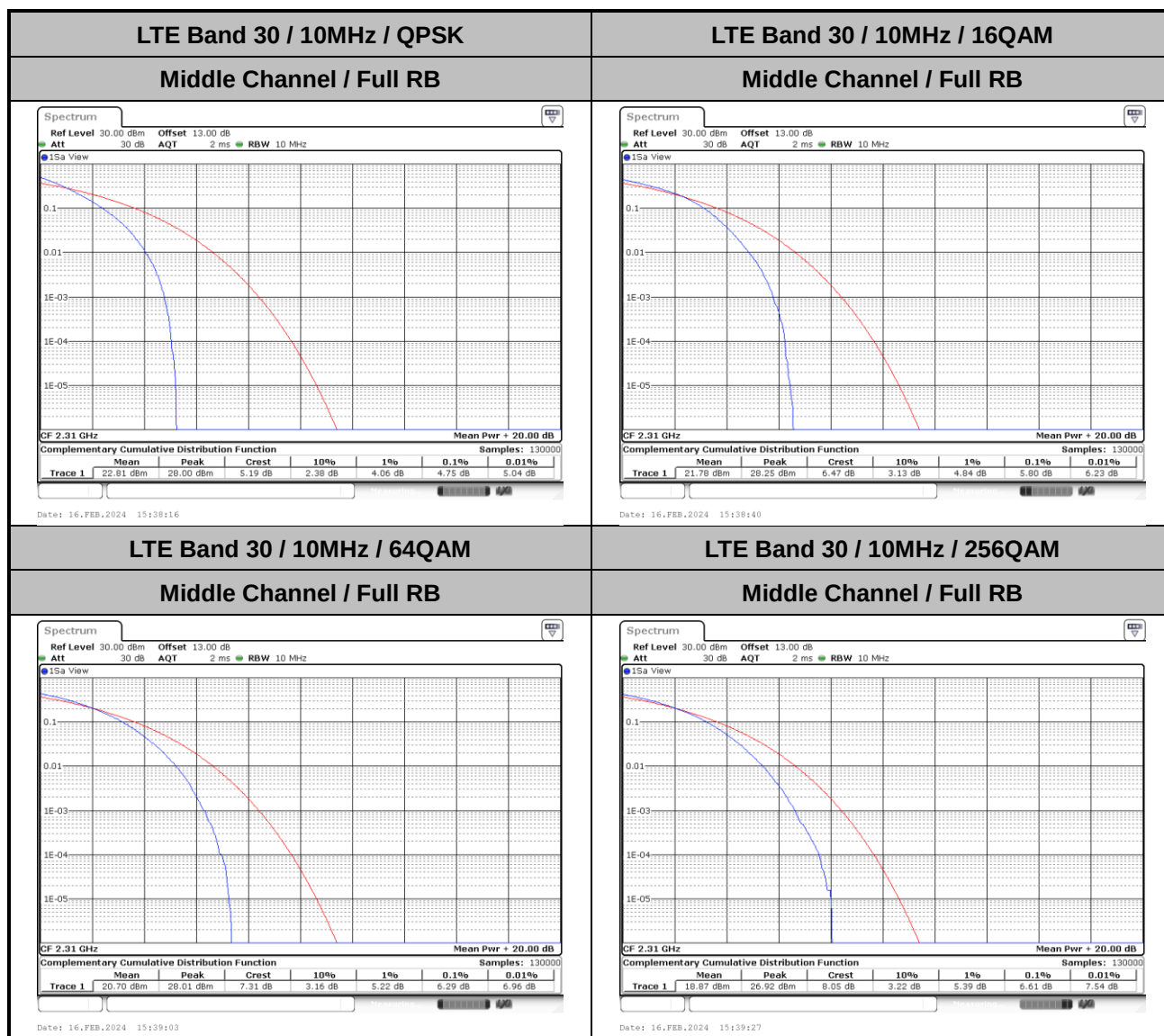




LTE Band 30

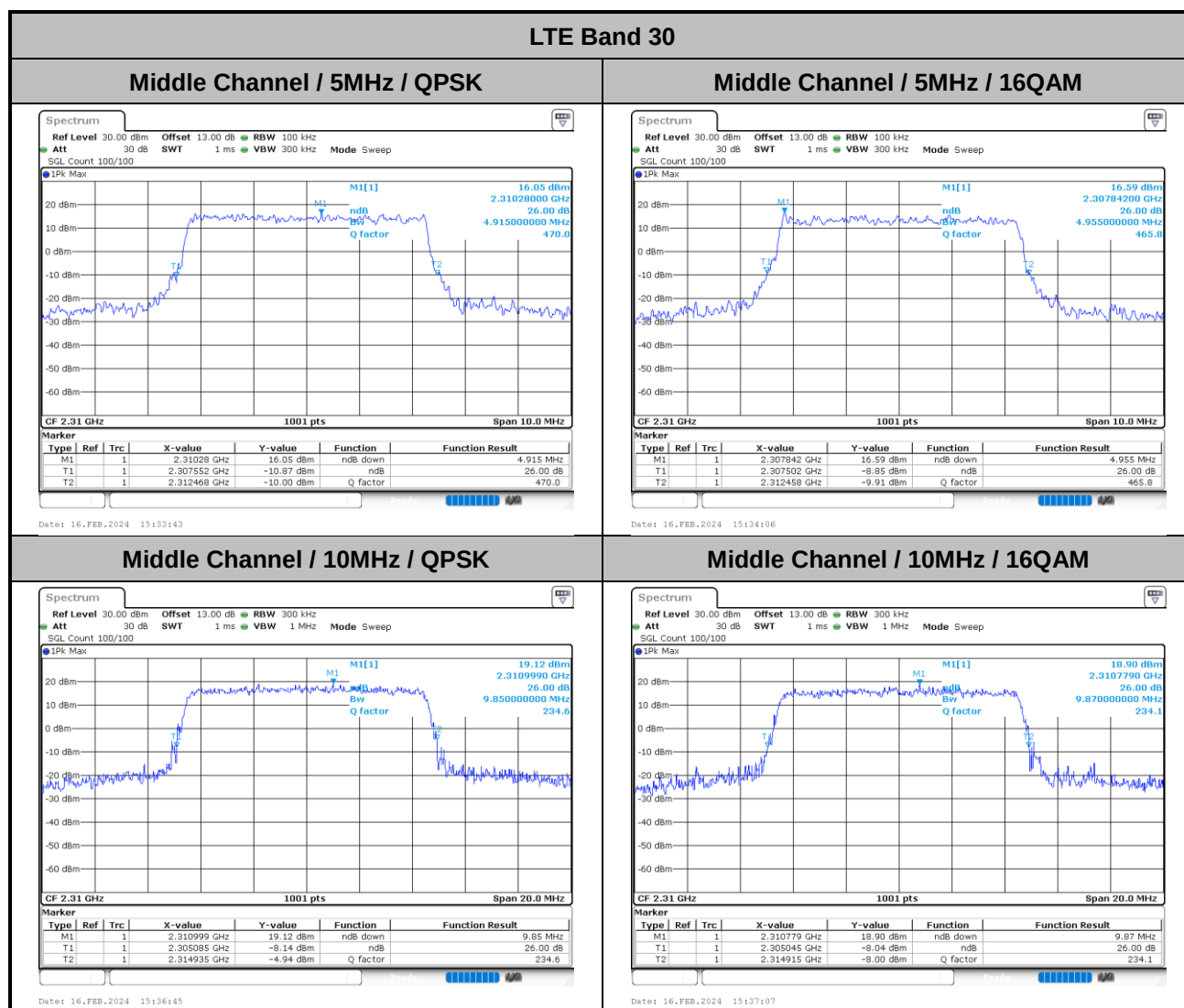
Peak-to-Average Ratio

Mode	LTE Band 30 / 10MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.75	5.80	6.29	6.61	PASS



**26dB Bandwidth**

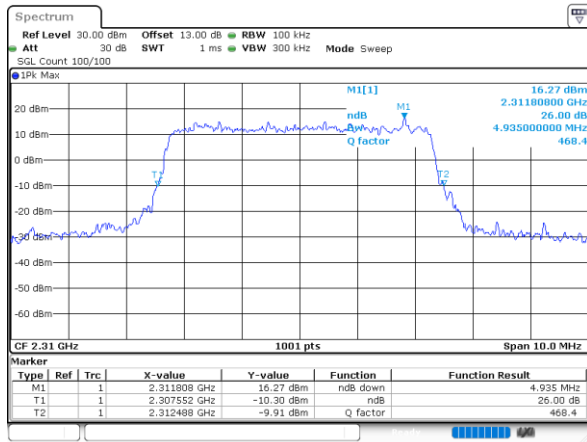
Mode	LTE Band 30 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	4.91	4.95	9.84	9.86	-	-	-	-
Mode	LTE Band 30 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	-	-	-	-	4.93	4.99	9.89	9.86	-	-	-	-



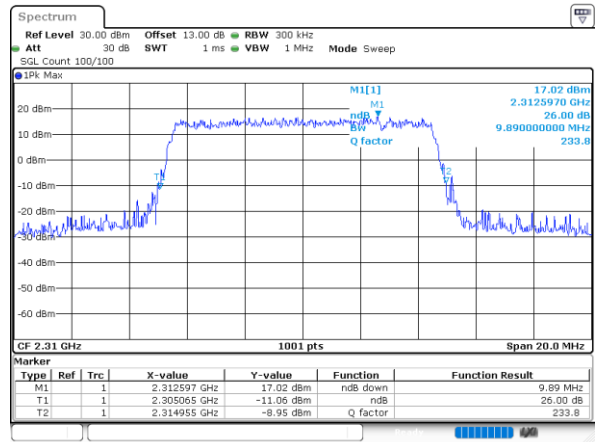


LTE Band 30

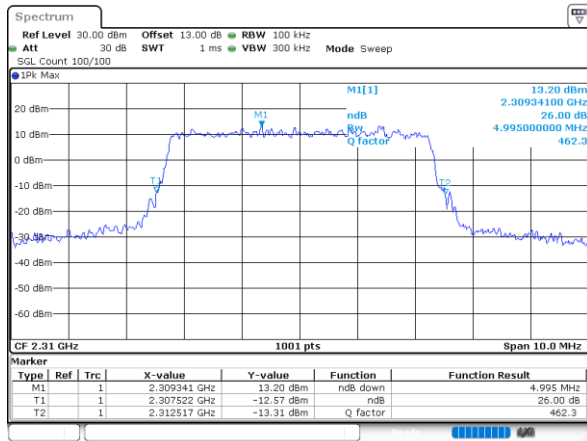
Middle Channel / 5MHz / 64QAM



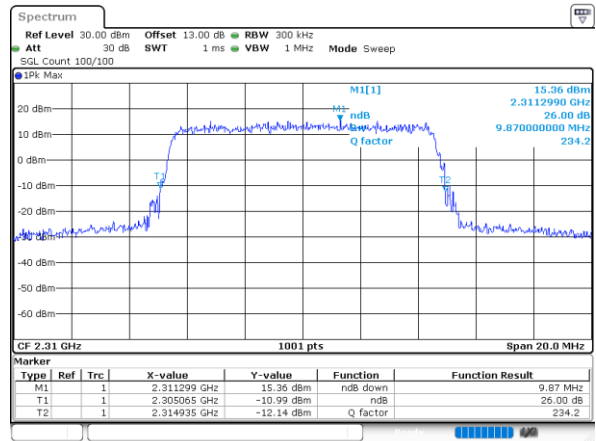
Middle Channel / 10MHz / 64QAM



Middle Channel / 5MHz / 256QAM



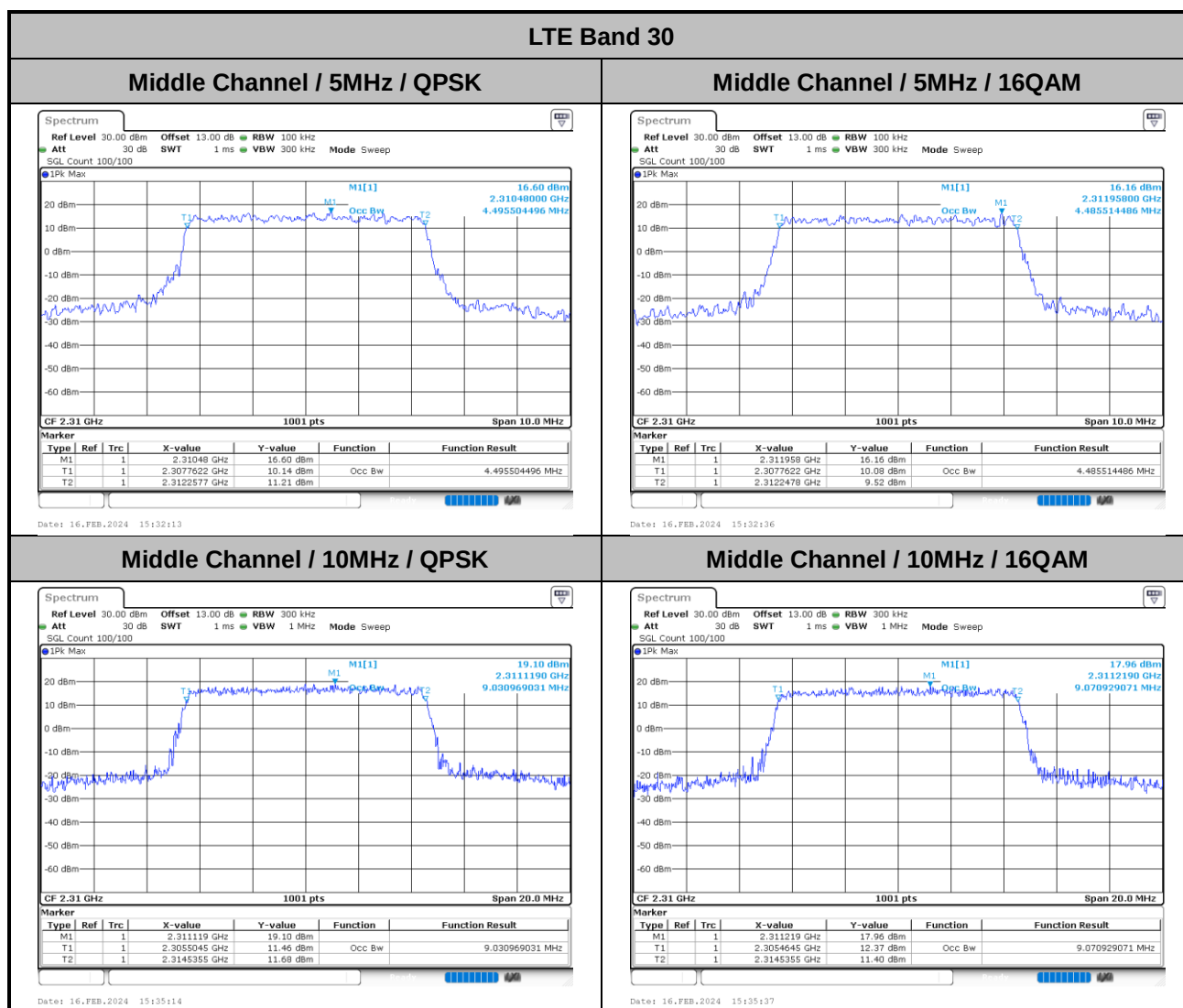
Middle Channel / 10MHz / 256QAM





Occupied Bandwidth

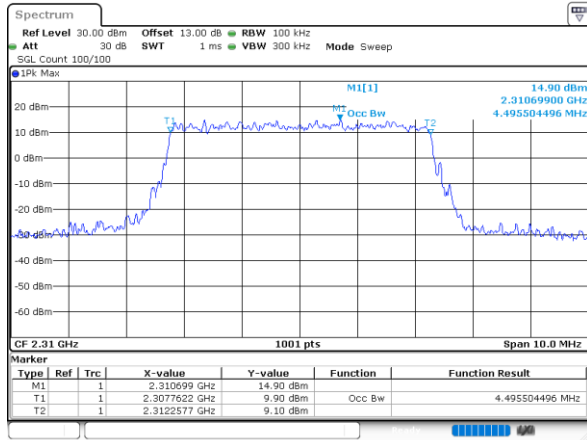
Mode	LTE Band 30 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	4.49	4.48	9.03	9.07	-	-	-	-
Mode	LTE Band 30 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	-	-	-	-	4.49	4.49	9.01	9.01	-	-	-	-



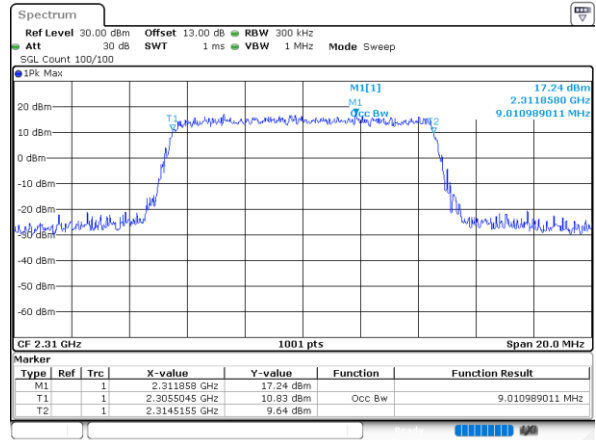


LTE Band 30

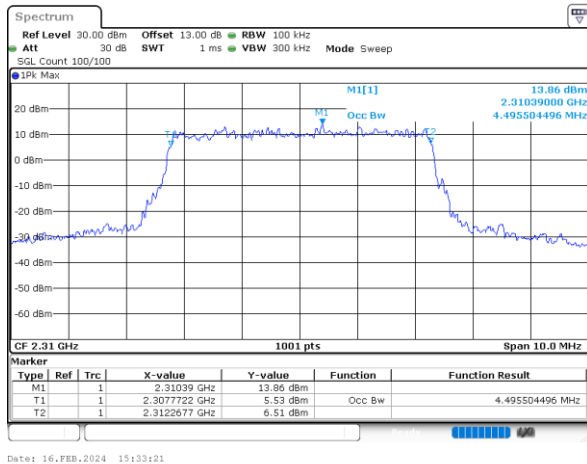
Middle Channel / 5MHz / 64QAM



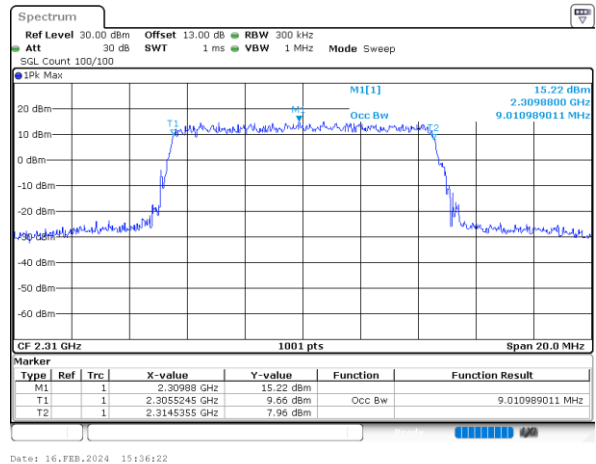
Middle Channel / 10MHz / 64QAM



Middle Channel / 5MHz / 256QAM



Middle Channel / 10MHz / 256QAM

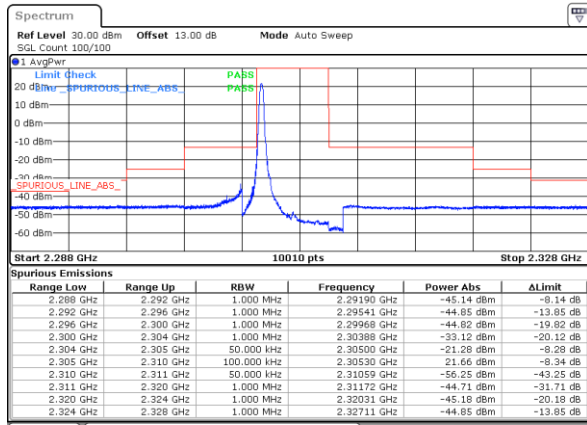




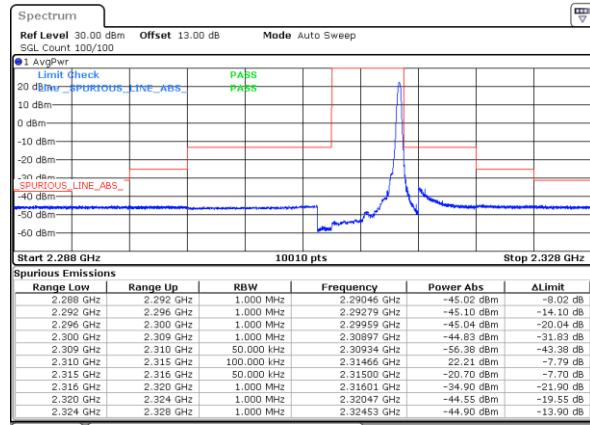
Conducted Band Edge

LTE Band 30 / 5MHz / QPSK

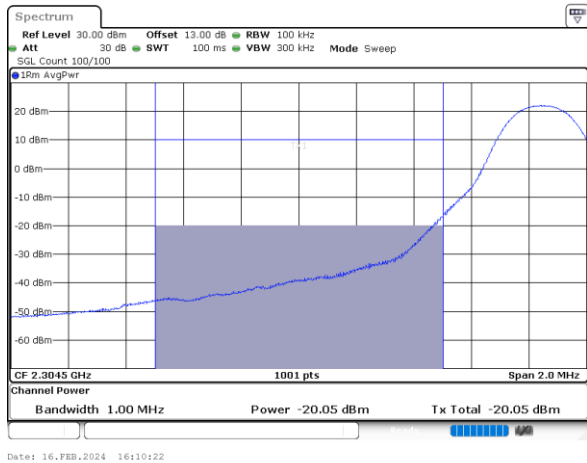
Lowest Band Edge / 1 RB



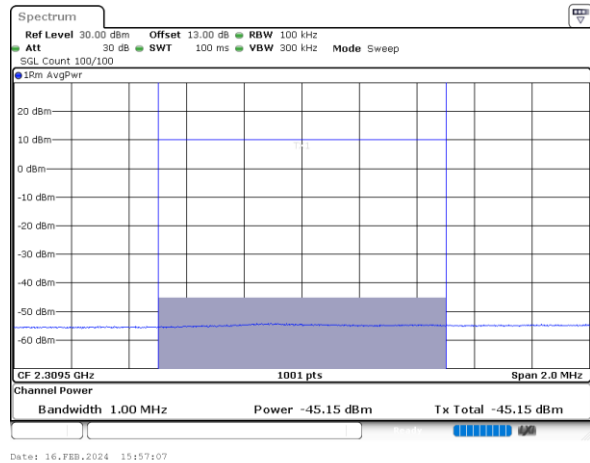
Highest Band Edge / 1 RB



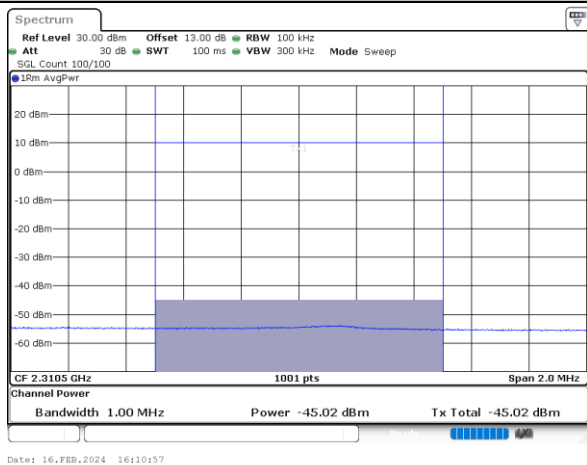
Lowest Band Edge / 1 RB / Lower zoom in



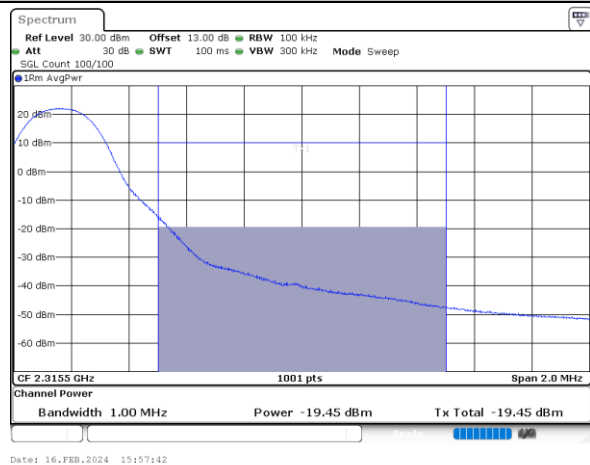
Highest Band Edge / 1 RB / Lower zoom in



Lowest Band Edge / 1 RB / Upper zoom in



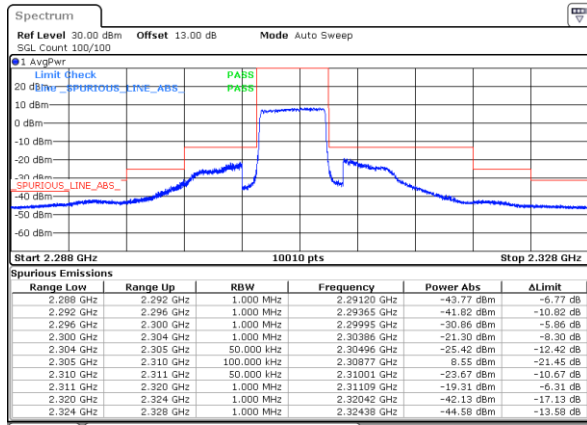
Highest Band Edge / 1 RB / Upper zoom in



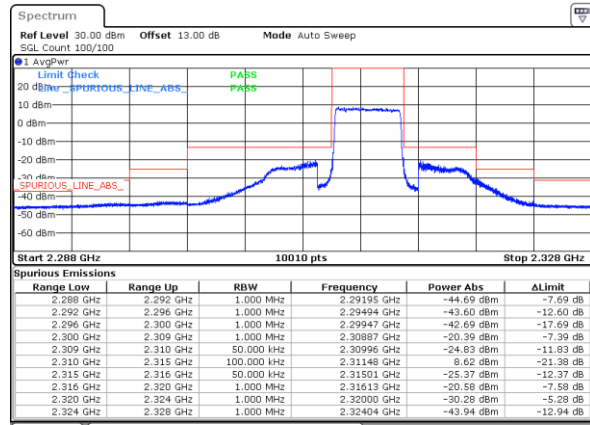


LTE Band 30 / 5MHz / QPSK

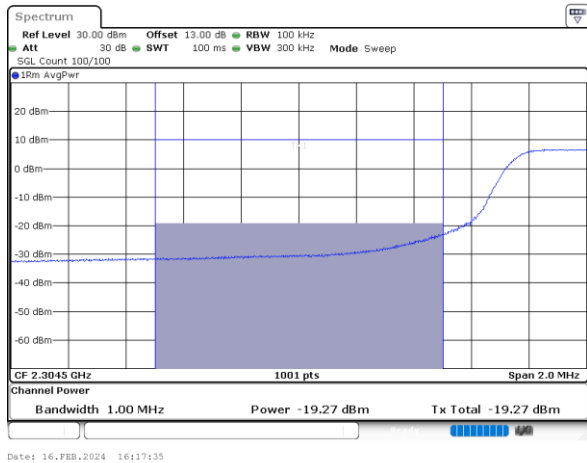
Lowest Band Edge / Full RB



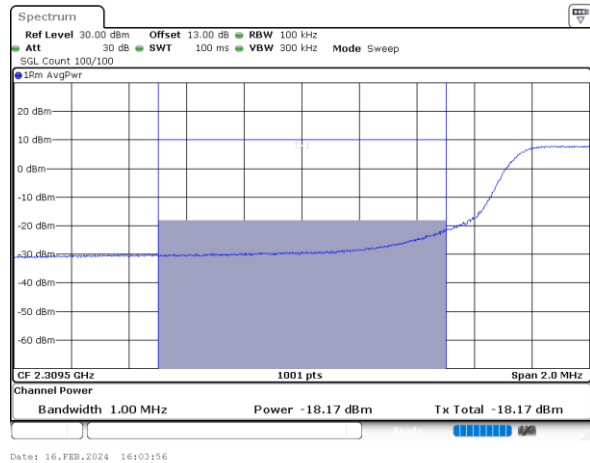
Highest Band Edge / Full RB



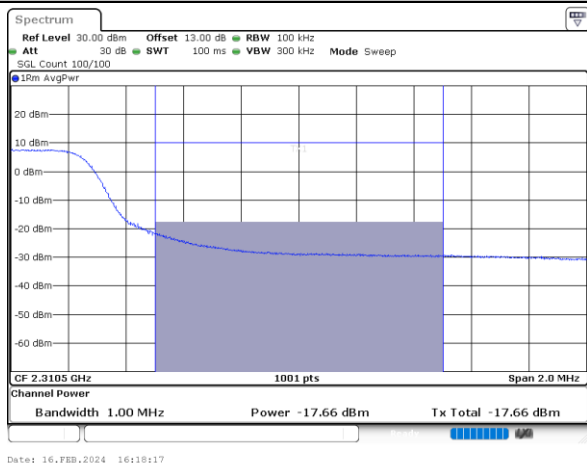
Lowest Band Edge / Full RB / Lower zoom in



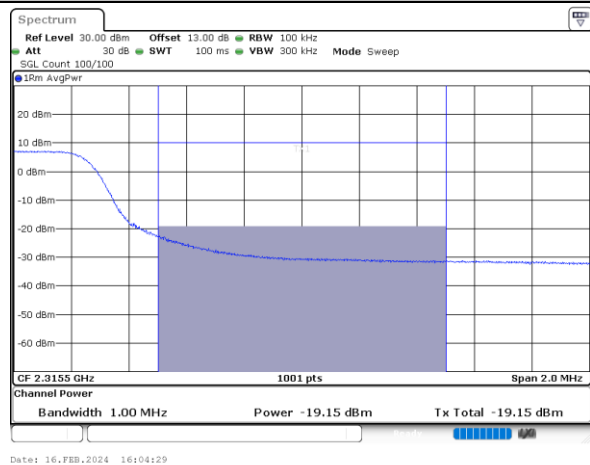
Highest Band Edge / Full RB / Lower zoom in



Lowest Band Edge / Full RB / Upper zoom in



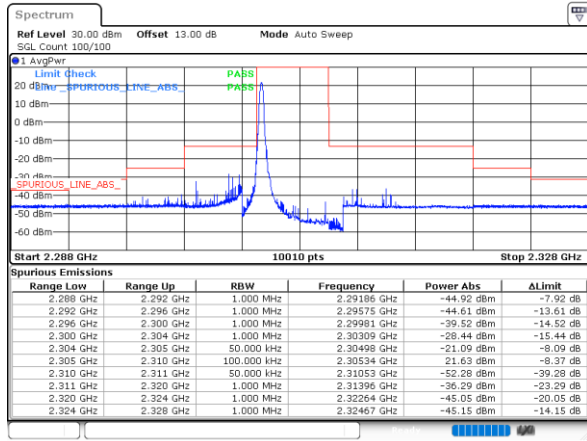
Highest Band Edge / Full RB / Upper zoom in



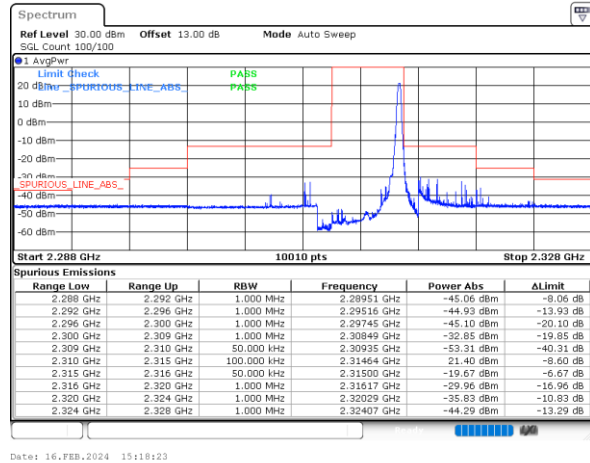


LTE Band 30 / 5MHz / 16QAM

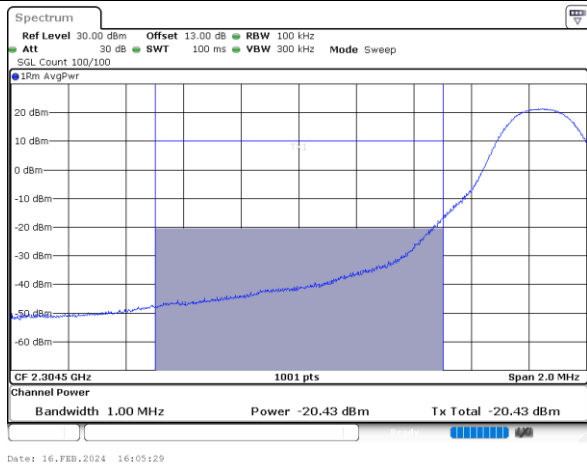
Lowest Band Edge / 1 RB



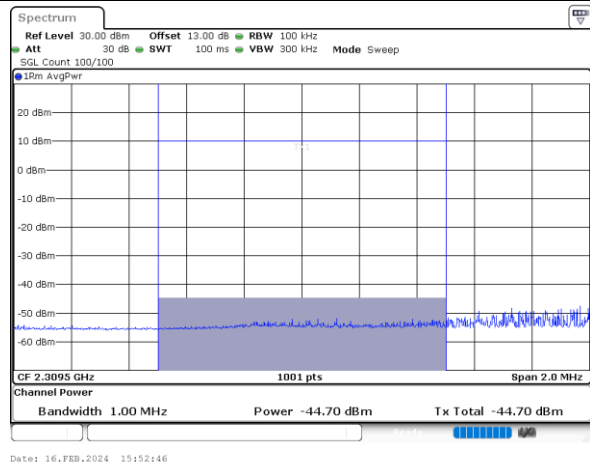
Highest Band Edge / 1 RB



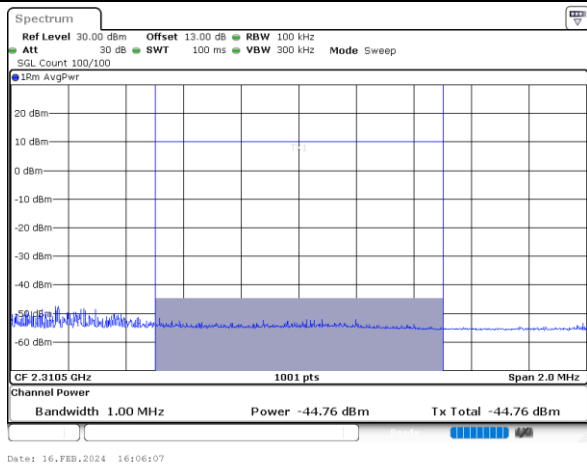
Lowest Band Edge / 1 RB / Lower zoom in



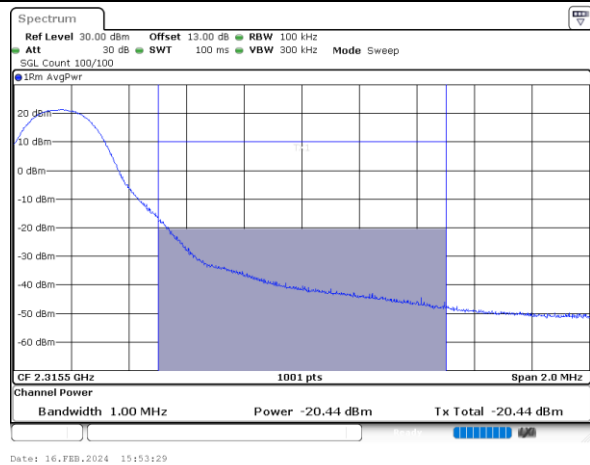
Highest Band Edge / 1 RB / Lower zoom in



Lowest Band Edge / 1 RB / Upper zoom in



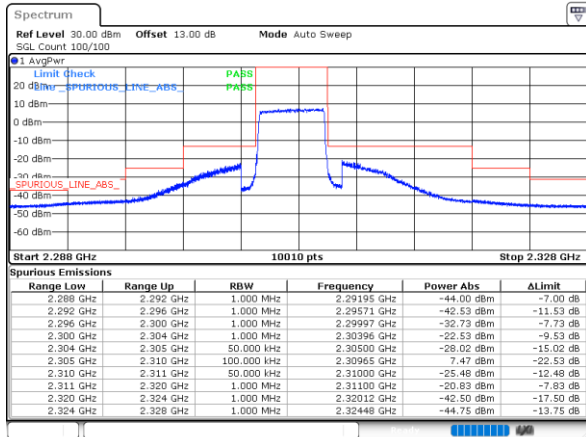
Highest Band Edge / 1 RB / Upper zoom in



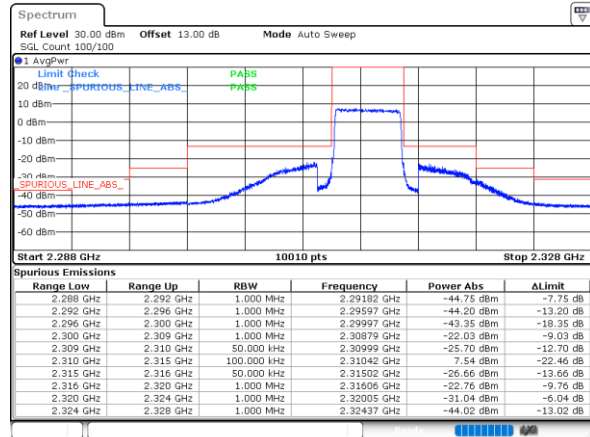


LTE Band 30 / 5MHz / 16QAM

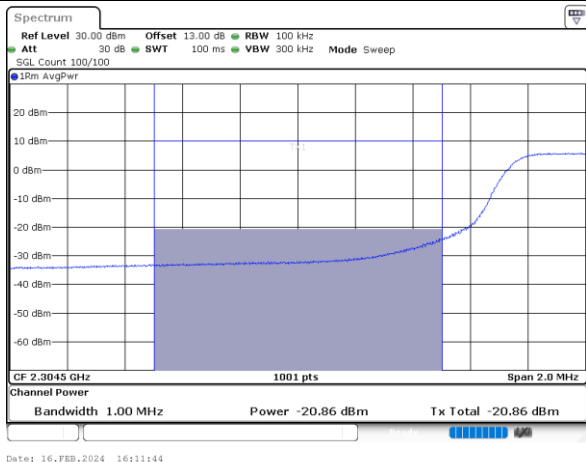
Lowest Band Edge / Full RB



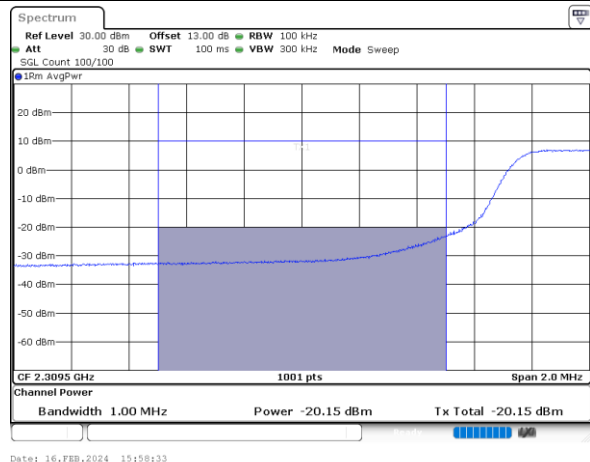
Highest Band Edge / Full RB



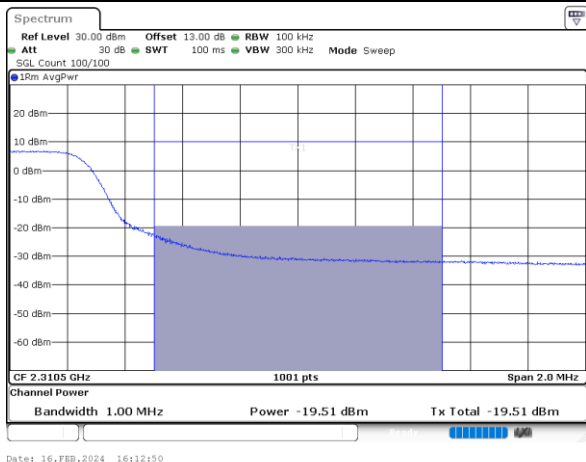
Lowest Band Edge / Full RB / Lower zoom in



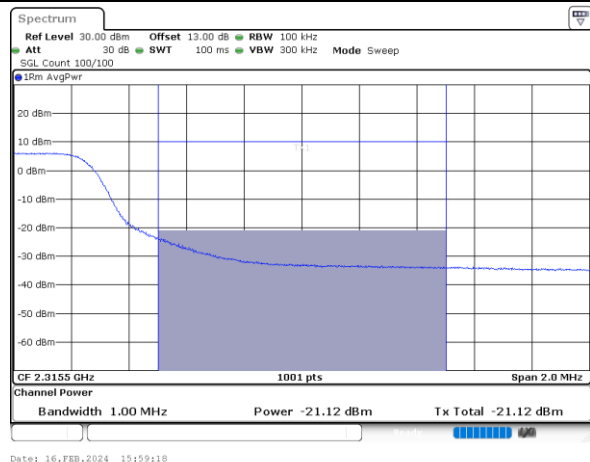
Highest Band Edge / Full RB / Lower zoom in



Lowest Band Edge / Full RB / Upper zoom in



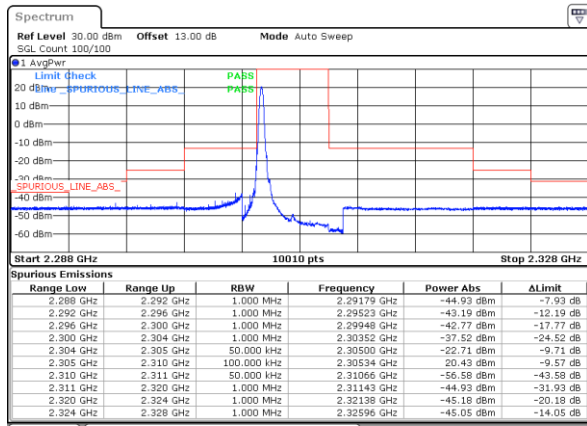
Highest Band Edge / Full RB / Upper zoom in





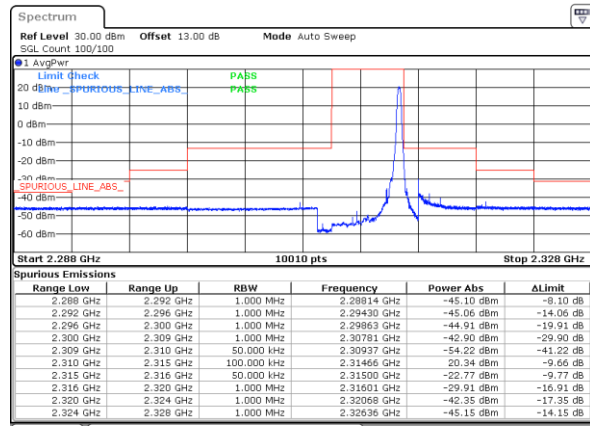
LTE Band 30 / 5MHz / 64QAM

Lowest Band Edge / 1 RB



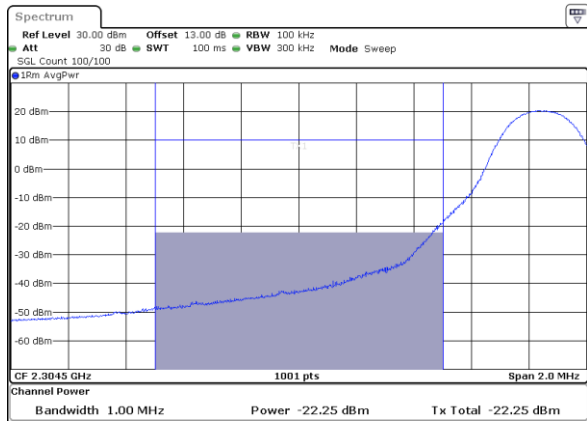
Date: 16.FEB.2024 15:10:35

Highest Band Edge / 1 RB



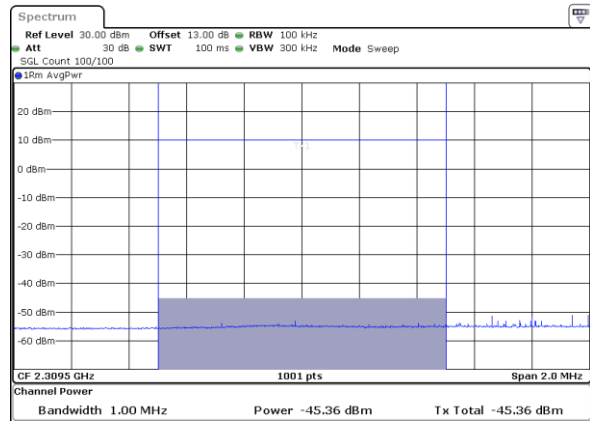
Date: 16.FEB.2024 15:11:21

Lowest Band Edge / 1 RB / Lower zoom in



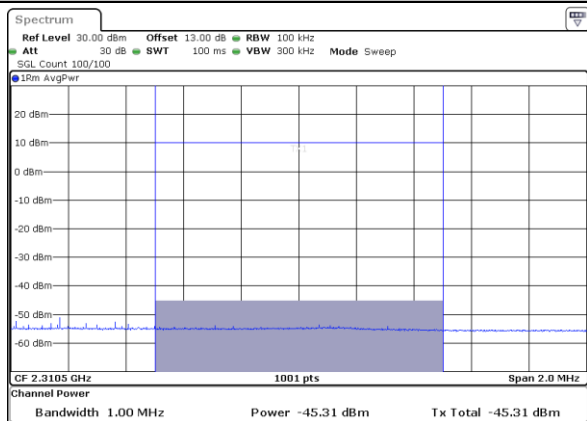
Date: 16.FEB.2024 16:07:08

Highest Band Edge / 1 RB / Lower zoom in



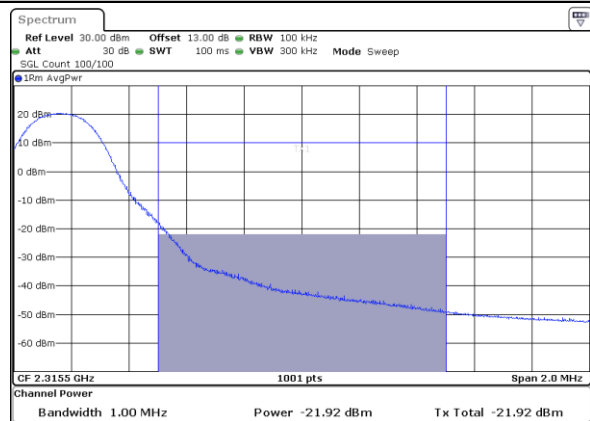
Date: 16.FEB.2024 15:14:26

Lowest Band Edge / 1 RB / Upper zoom in



Date: 16.FEB.2024 16:07:48

Highest Band Edge / 1 RB / Upper zoom in

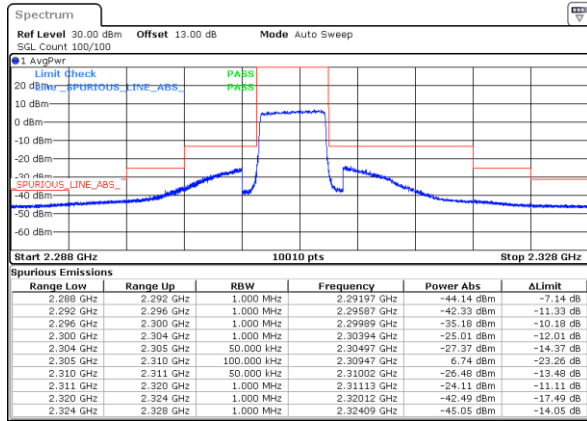


Date: 16.FEB.2024 15:55:04

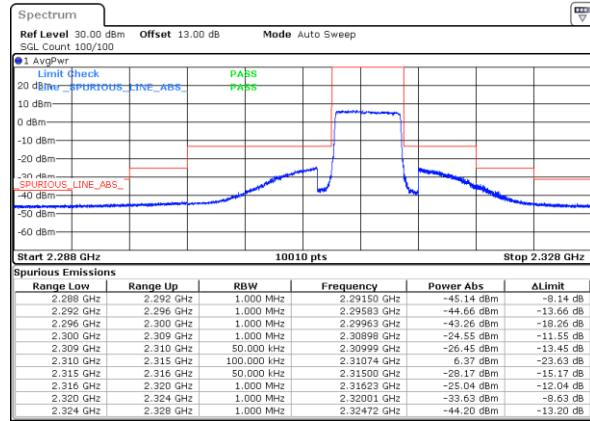


LTE Band 30 / 5MHz / 64QAM

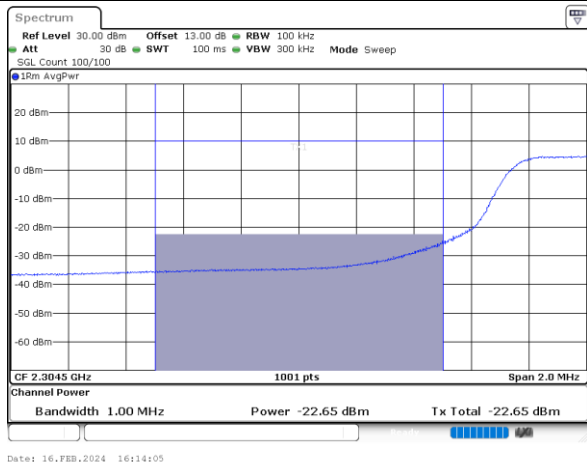
Lowest Band Edge / Full RB



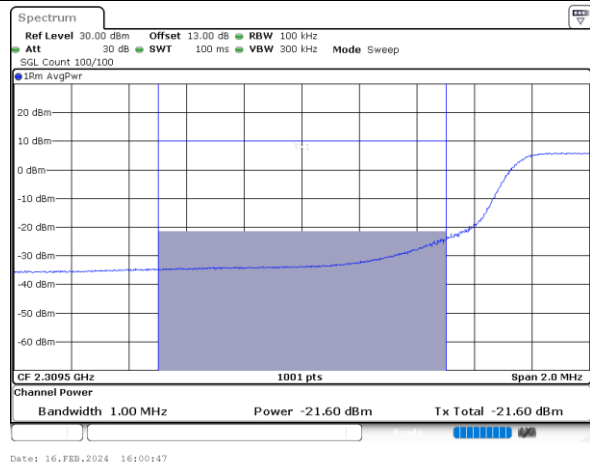
Highest Band Edge / Full RB



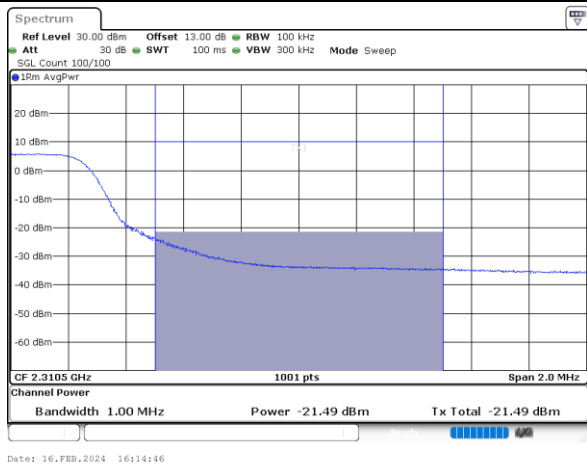
Lowest Band Edge / Full RB / Lower zoom in



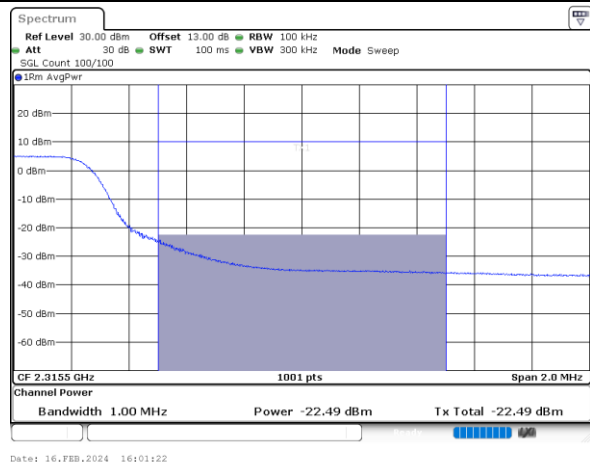
Highest Band Edge / Full RB / Lower zoom in



Lowest Band Edge / Full RB / Upper zoom in



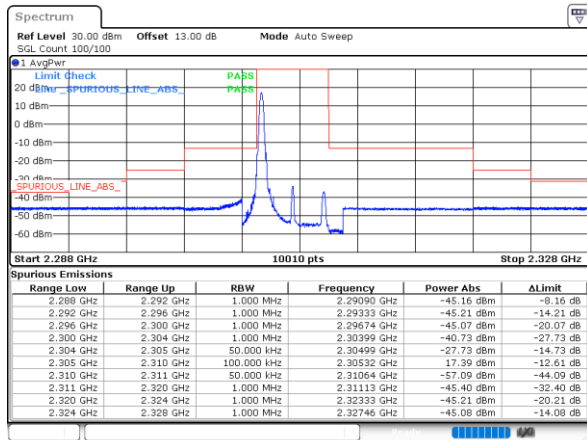
Highest Band Edge / Full RB / Upper zoom in



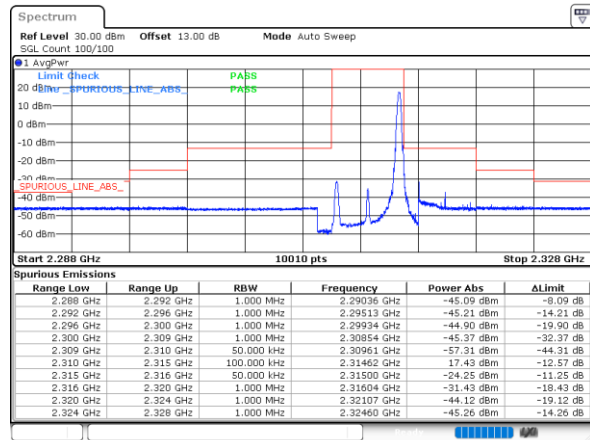


LTE Band 30 / 5MHz / 256QAM

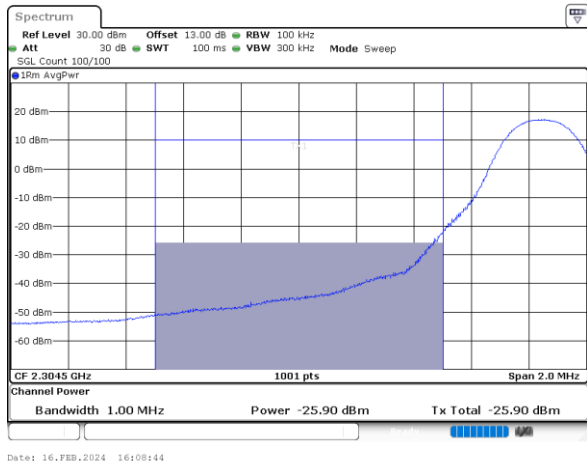
Lowest Band Edge / 1 RB



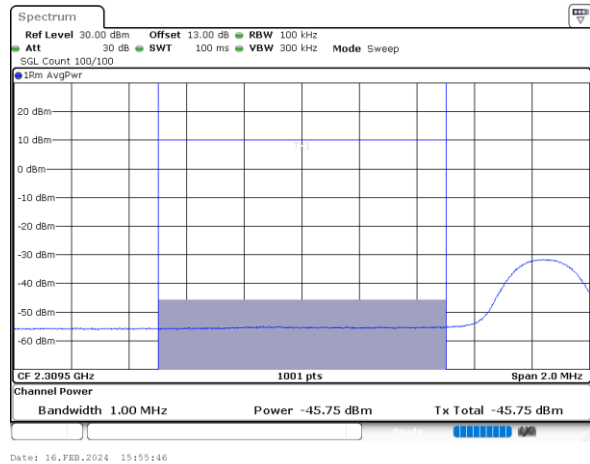
Highest Band Edge / 1 RB



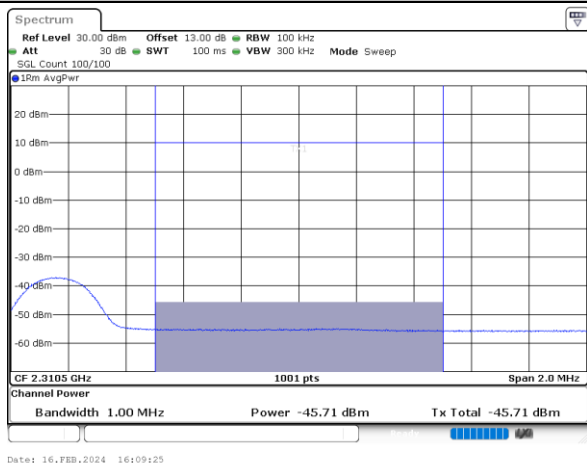
Lowest Band Edge / 1 RB / Lower zoom in



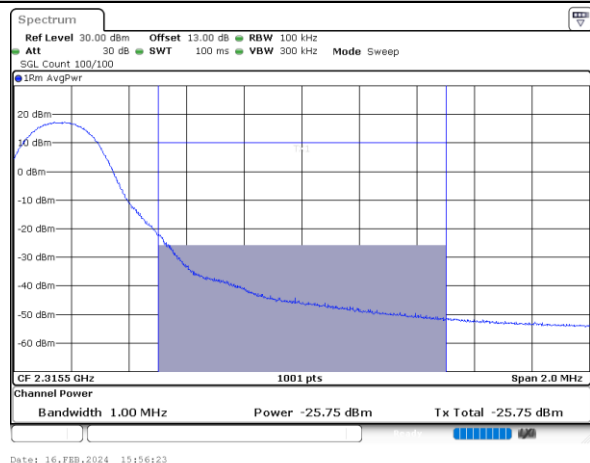
Highest Band Edge / 1 RB / Lower zoom in



Lowest Band Edge / 1 RB / Upper zoom in



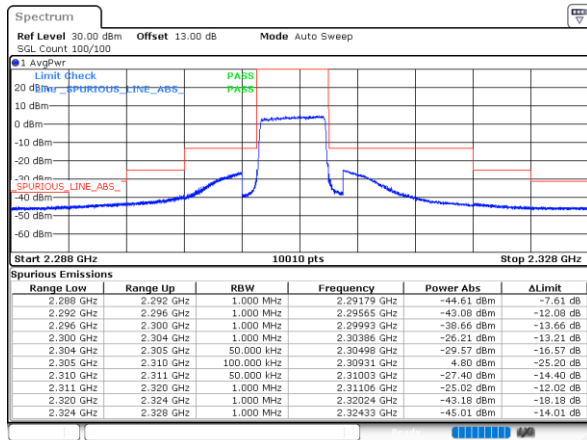
Highest Band Edge / 1 RB / Upper zoom in



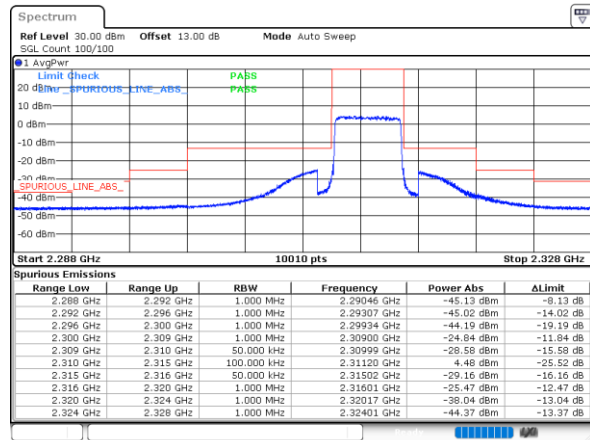


LTE Band 30 / 5MHz / 256QAM

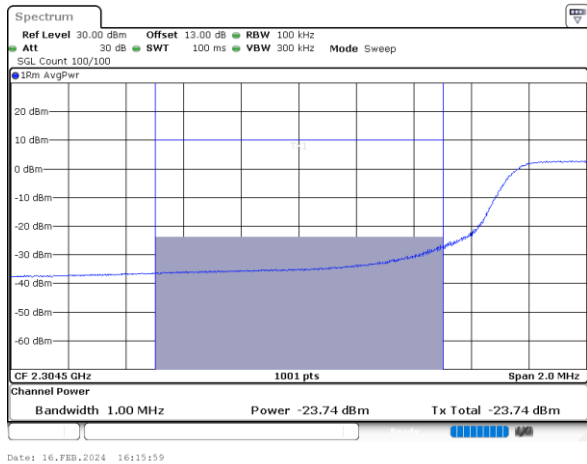
Lowest Band Edge / Full RB



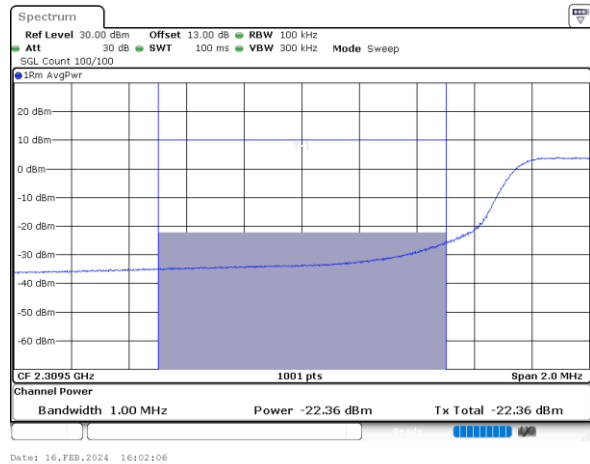
Highest Band Edge / Full RB



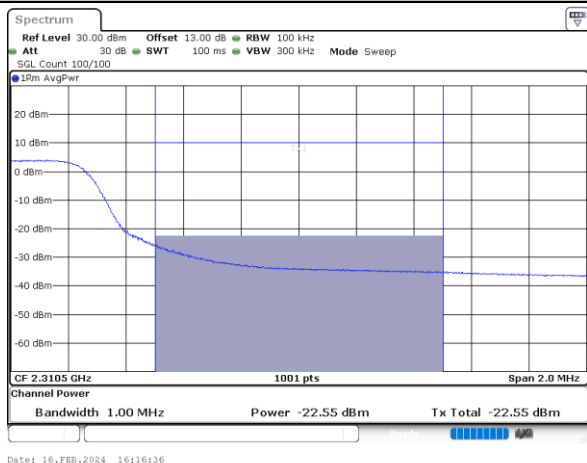
Lowest Band Edge / Full RB / Lower zoom in



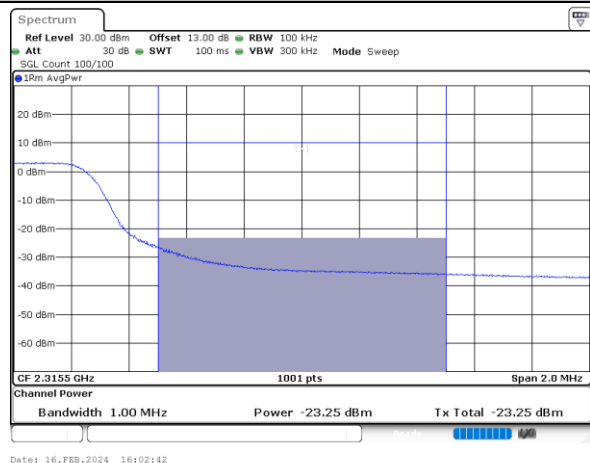
Highest Band Edge / Full RB / Lower zoom in



Lowest Band Edge / Full RB / Upper zoom in



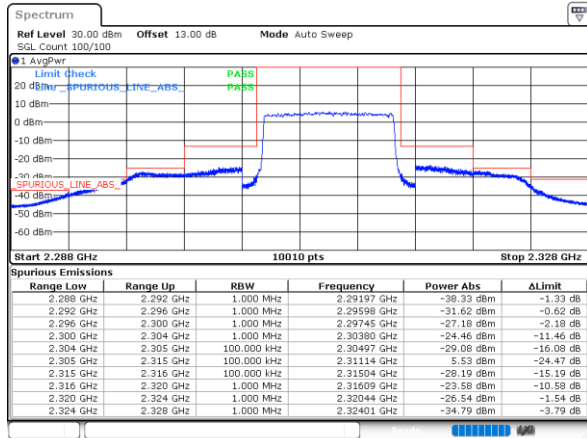
Highest Band Edge / Full RB / Upper zoom in



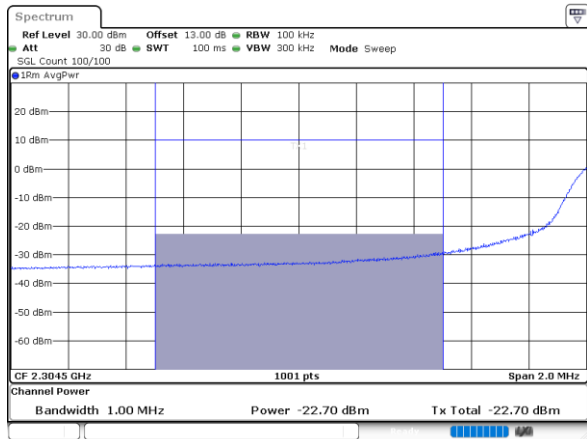


LTE Band 30 / 10MHz / QPSK

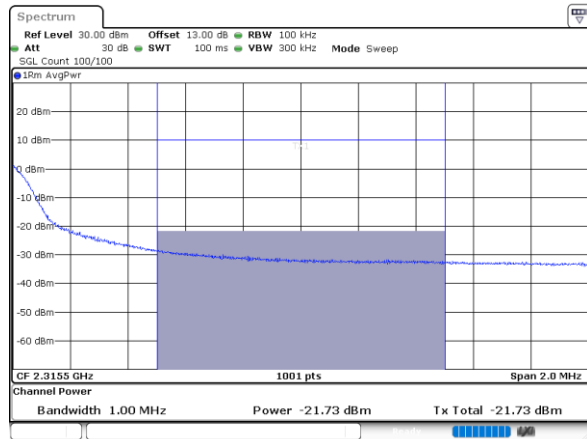
Middle Band Edge / Full RB



Middle Band Edge / Full RB / Lower zoom in



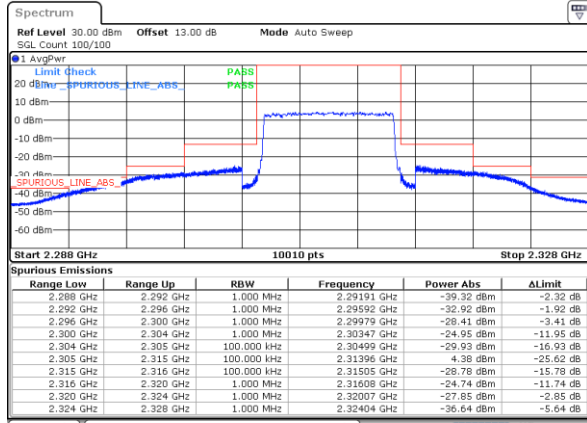
Middle Band Edge / Full RB / Upper zoom in



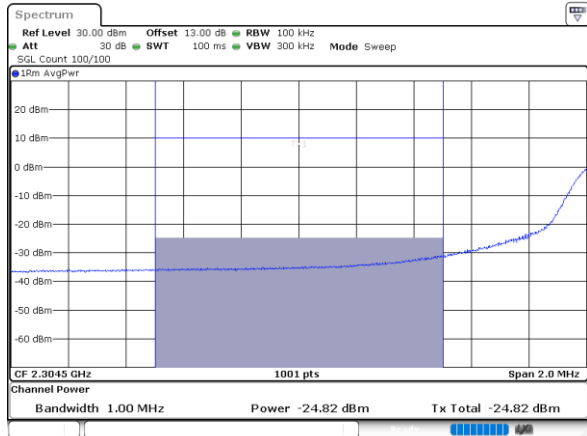


LTE Band 30 / 10MHz / 16QAM

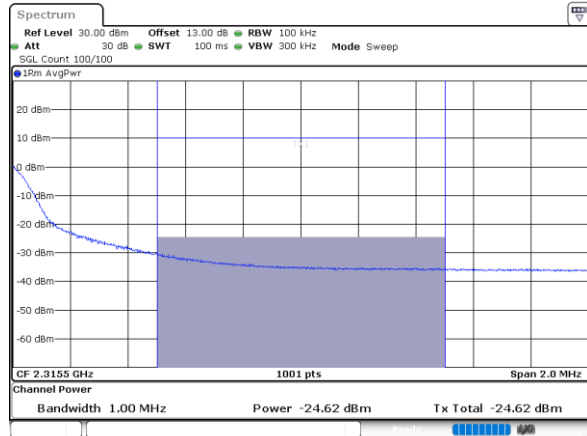
Middle Band Edge / Full RB



Middle Band Edge / Full RB / Lower zoom in



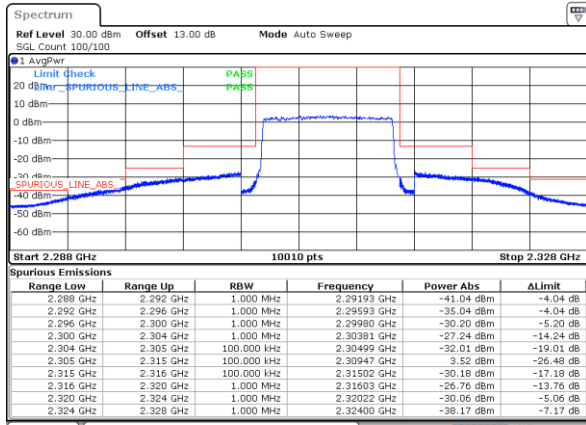
Middle Band Edge / Full RB / Upper zoom in



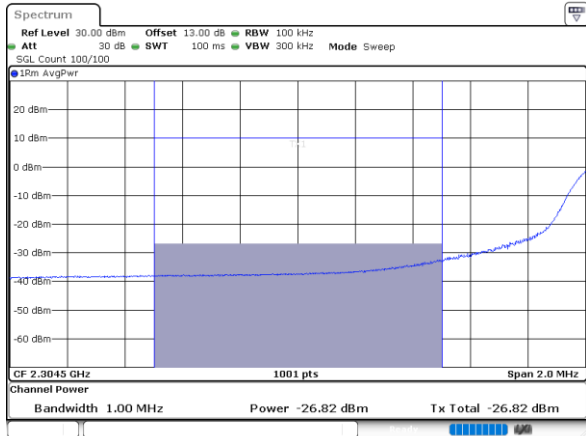


LTE Band 30 / 10MHz / 64QAM

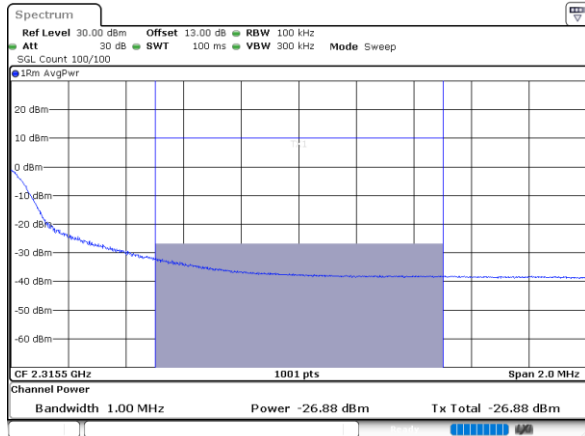
Middle Band Edge / Full RB



Middle Band Edge / Full RB / Lower zoom in



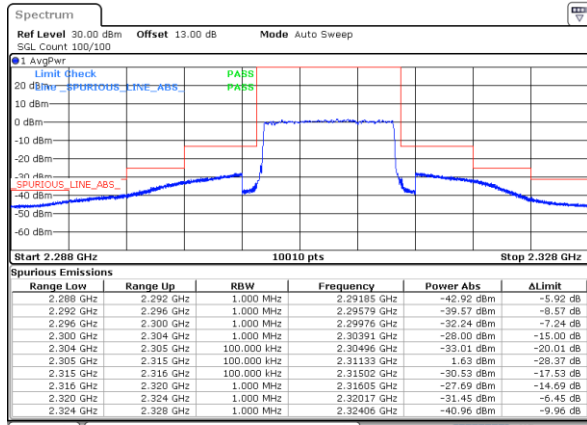
Middle Band Edge / Full RB / Upper zoom in



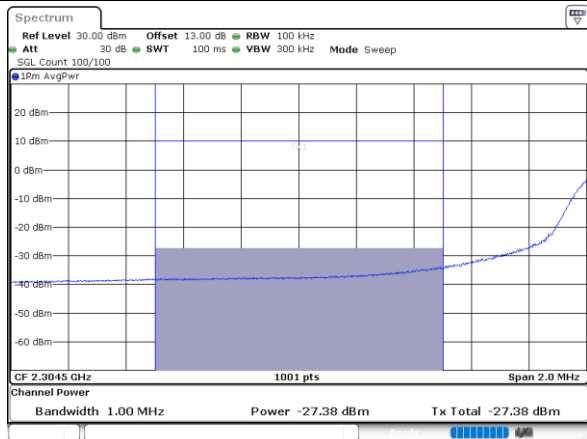


LTE Band 30 / 10MHz / 256QAM

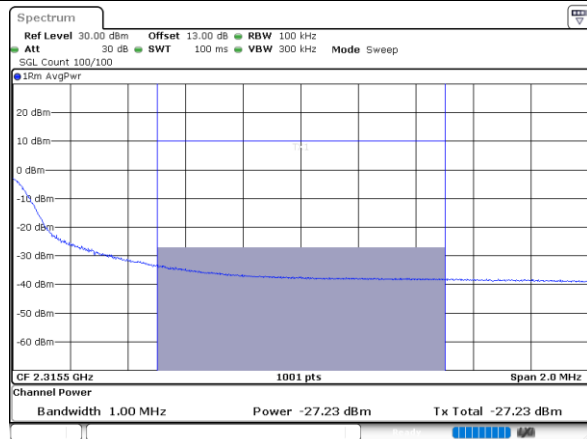
Middle Band Edge / Full RB



Middle Band Edge / Full RB / Lower zoom in



Middle Band Edge / Full RB / Upper zoom in

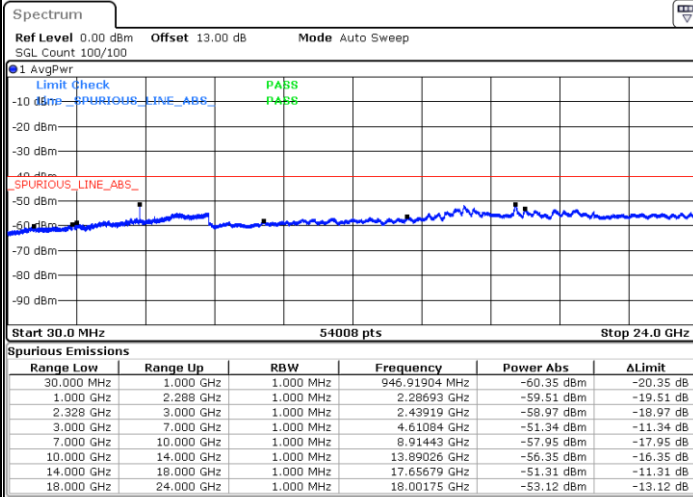




Conducted Spurious Emission

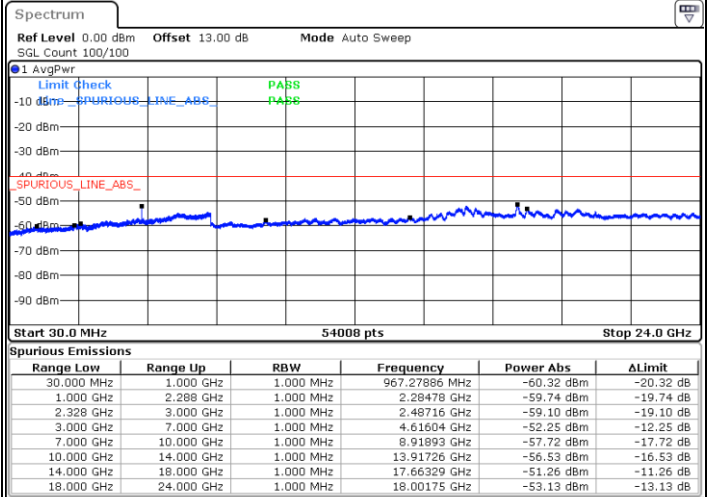
LTE Band 30 / 5MHz

Lowest Channel / QPSK



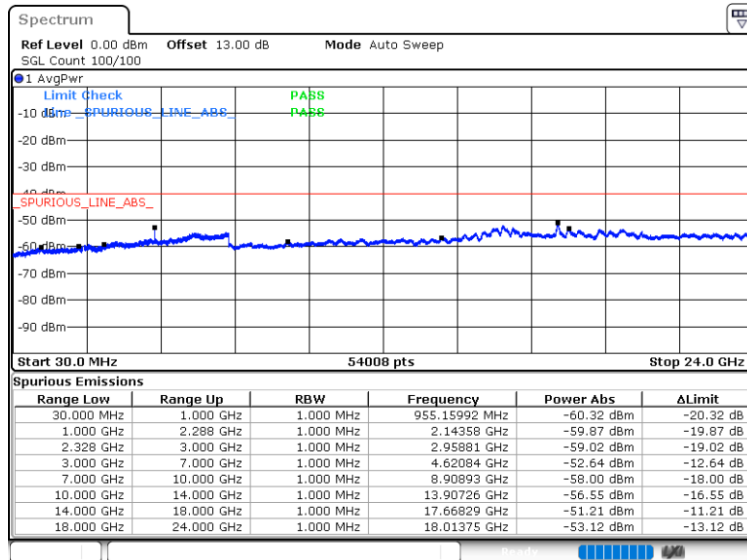
Date: 16.FEB.2024 15:29:28

Middle Channel / QPSK



Date: 16.FEB.2024 15:30:39

Highest Channel / QPSK

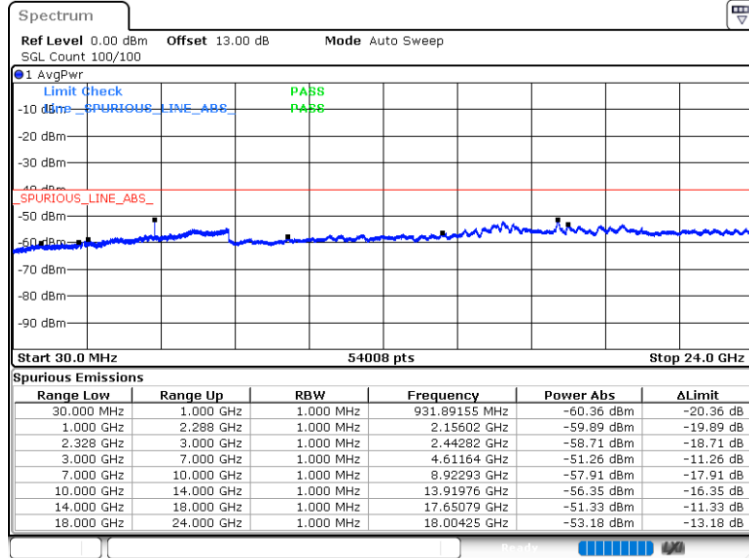


Date: 16.FEB.2024 15:31:50



LTE Band 30 / 10MHz

Middle Channel / QPSK



Date: 16.FEB.2024 15:40:37

Frequency Stability

Test Conditions		LTE Band 30 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0070	PASS
40	Normal Voltage	0.0065	
30	Normal Voltage	0.0035	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0018	
0	Normal Voltage	0.0054	
-10	Normal Voltage	0.0004	
-20	Normal Voltage	0.0052	
20	Maximum Voltage	0.0052	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0073	

Note:

1. Normal Voltage = 3.8 V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage = 4.2 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 38C

26dB Bandwidth

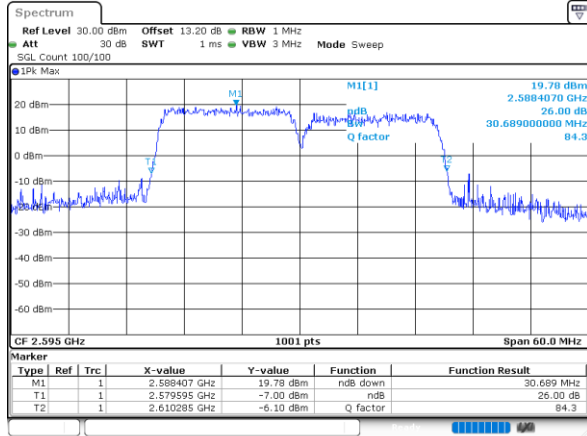
Mode	LTE Band 38C : 26dB BW(MHz)			
	QPSK	16QAM	64QAM	256QAM
BW	15MHz+15MHz	15MHz+15MHz	15MHz+15MHz	15MHz+15MHz
Middle CH	30.68	30.74	30.74	30.56
BW	20MHz+20MHz	20MHz+20MHz	20MHz+20MHz	20MHz+20MHz
Middle CH	39.96	39.88	39.96	39.96



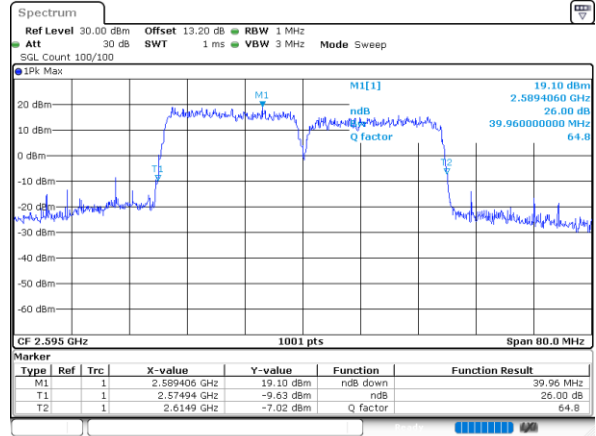
LTE Band 38C

QPSK

Middle Channel / 15MHz+15MHz

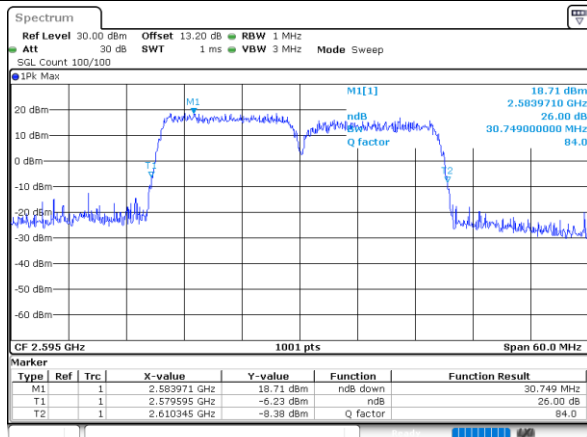


Middle Channel / 20MHz+20MHz

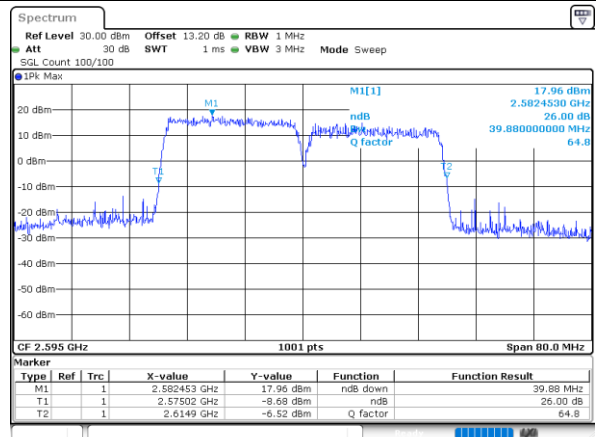


16QAM

Middle Channel / 15MHz+15MHz



Middle Channel / 20MHz+20MHz

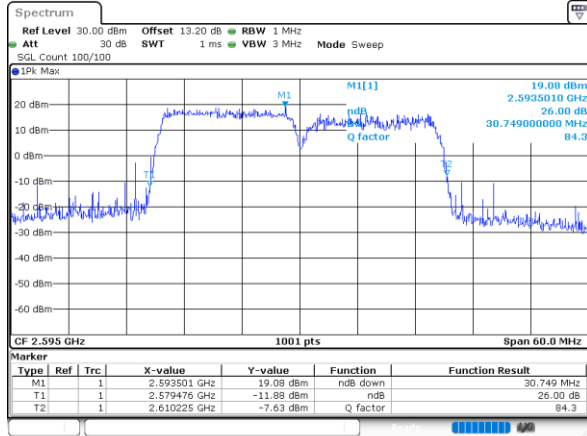




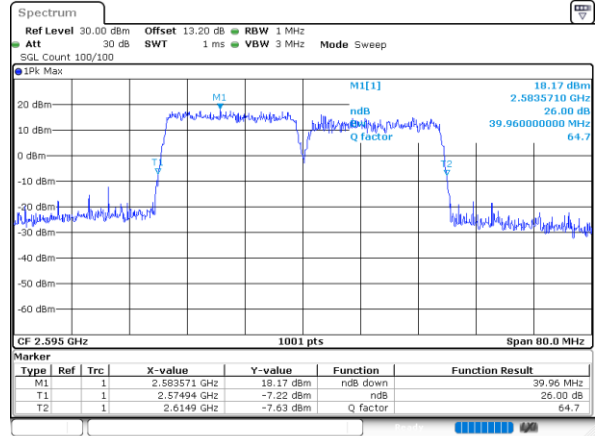
LTE Band 38C

64QAM

Middle Channel / 15MHz+15MHz

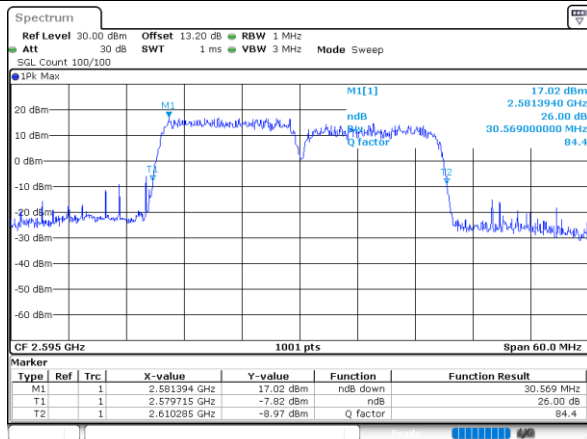


Middle Channel / 20MHz+20MHz

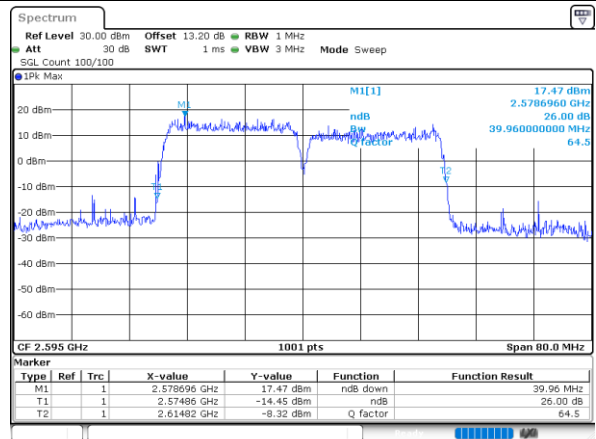


256QAM

Middle Channel / 15MHz+15MHz



Middle Channel / 20MHz+20MHz



**Occupied Bandwidth**

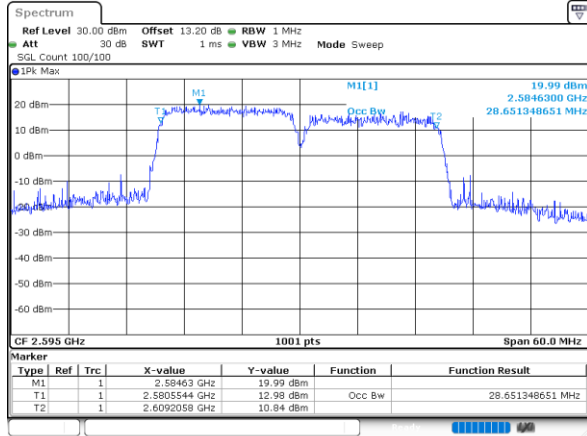
Mode	LTE Band 38C : 99%OBW(MHz)			
	QPSK	16QAM	64QAM	256QAM
BW	15MHz+15MHz	15MHz+15MHz	15MHz+15MHz	15MHz+15MHz
Middle CH	28.65	28.53	28.65	28.65
BW	20MHz+20MHz	20MHz+20MHz	20MHz+20MHz	20MHz+20MHz
Middle CH	37.80	37.80	37.72	37.72



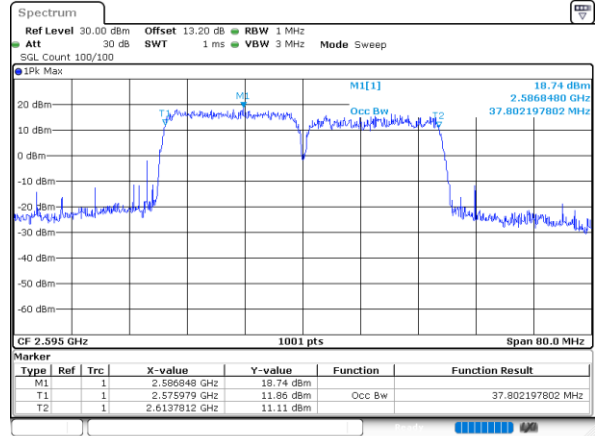
LTE Band 38C

QPSK

Middle Channel / 15MHz+15MHz

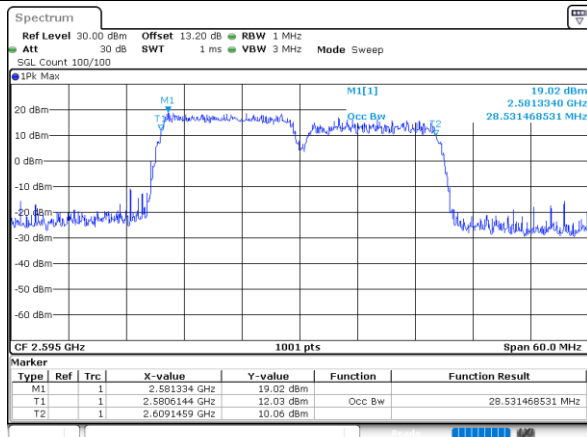


Middle Channel / 20MHz+20MHz

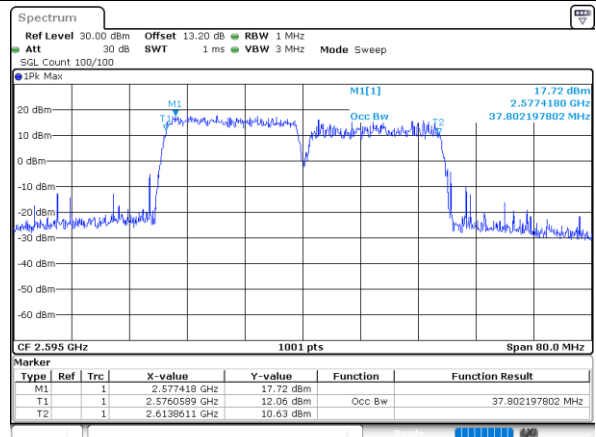


16QAM

Middle Channel / 15MHz+15MHz



Middle Channel / 20MHz+20MHz

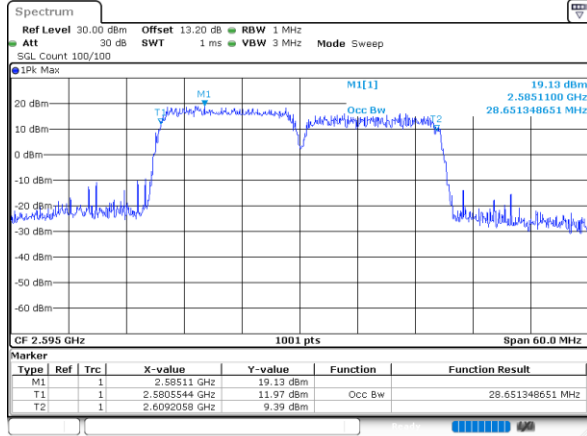




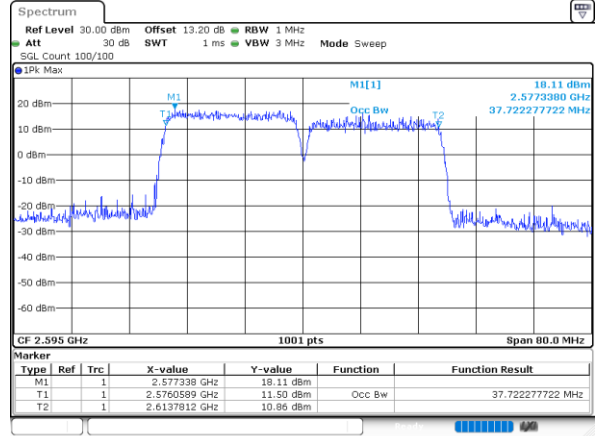
LTE Band 38C

64QAM

Middle Channel / 15MHz+15MHz

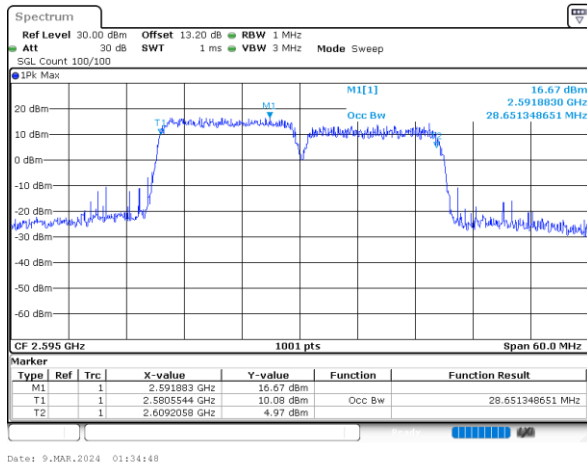


Middle Channel / 20MHz+20MHz

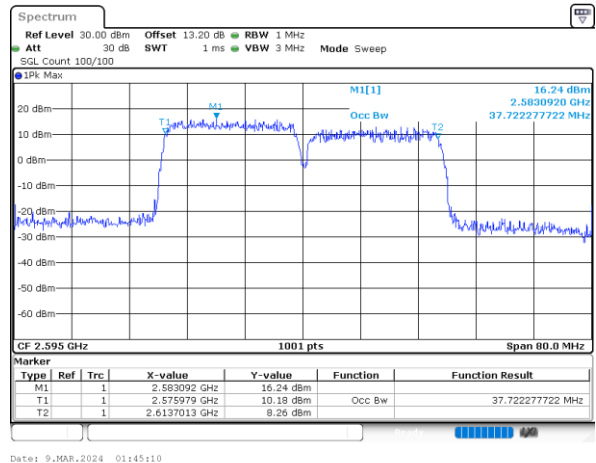


256QAM

Middle Channel / 15MHz+15MHz



Middle Channel / 20MHz+20MHz



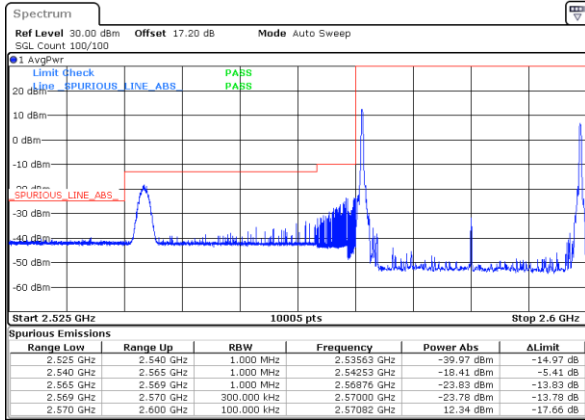


Conducted Band Edge

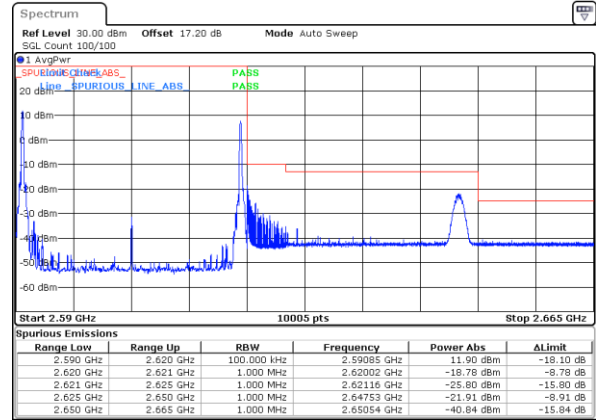
LTE Band 38C / 15MHz+15MHz

QPSK

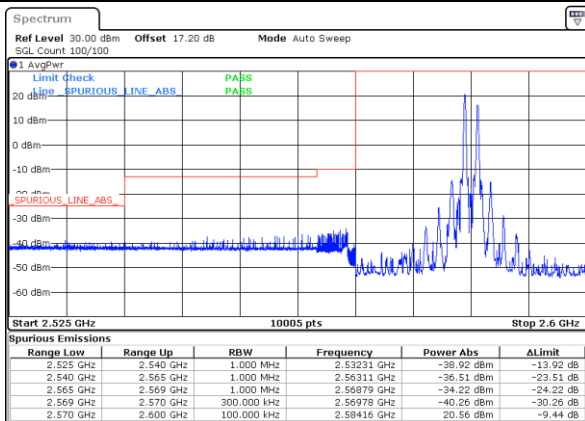
Lowest Band Edge / 1RB0 and 1RB74



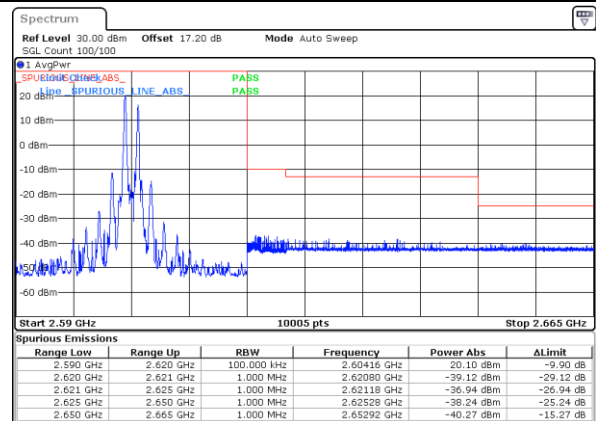
Highest Band Edge / 1RB0 and 1RB74



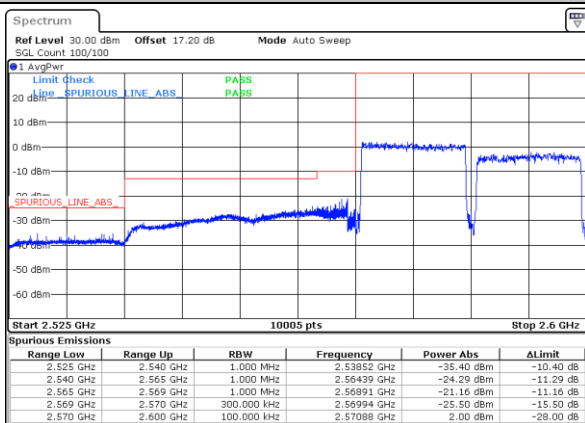
Lowest Band Edge / 1RB74 and 1RB0



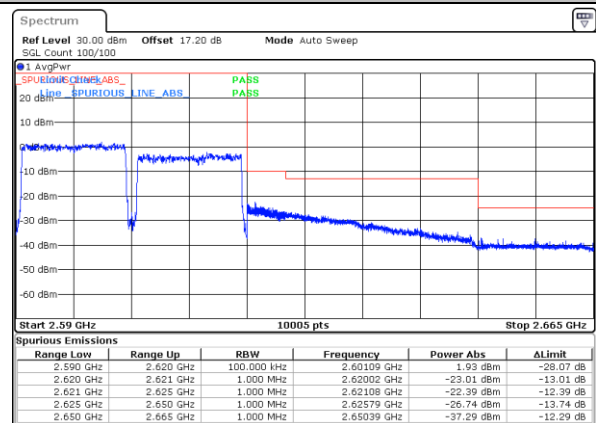
Highest Band Edge / 1RB74 and 1RB0



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

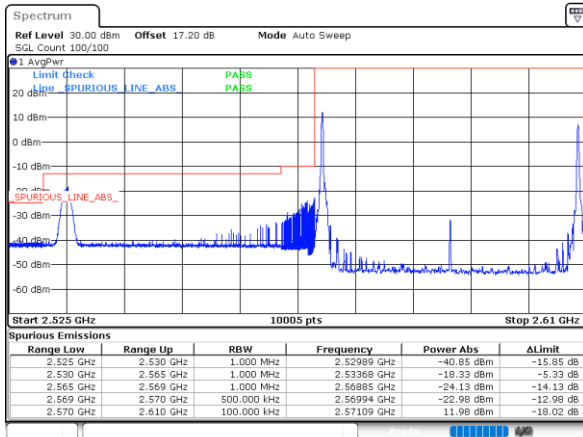




LTE Band 38C / 20MHz+20MHz

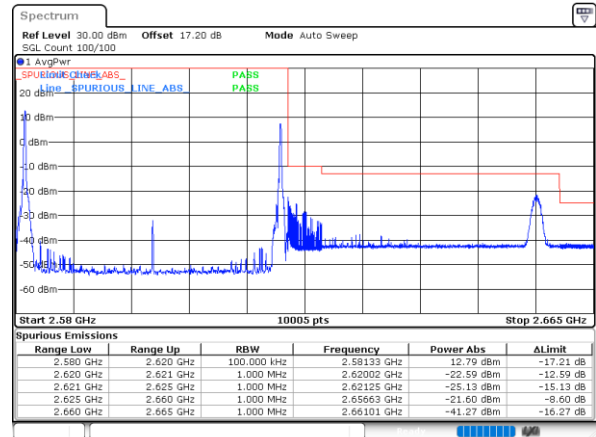
QPSK

Lowest Band Edge / 1RB0 and 1RB99



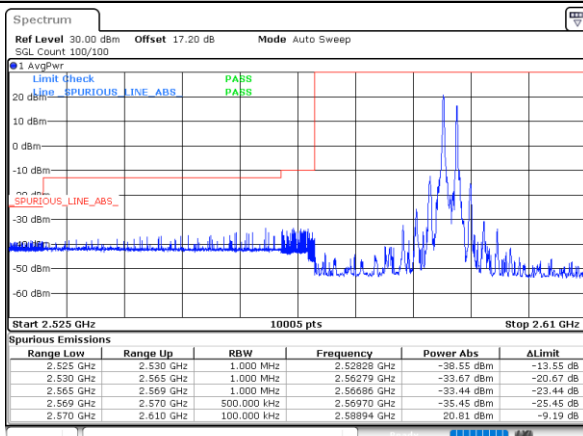
Date: 9.MAR.2024 01:20:07

Highest Band Edge / 1RB0 and 1RB99



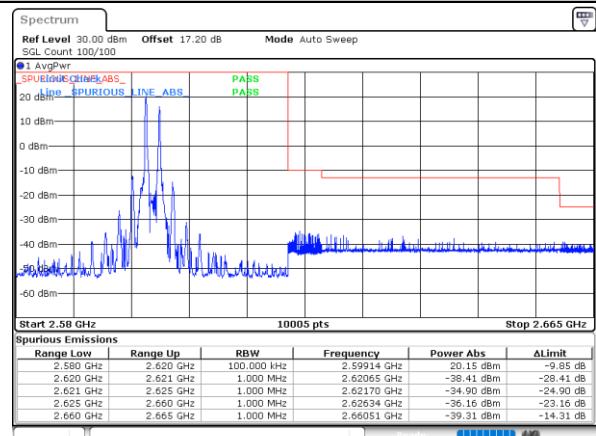
Date: 9.MAR.2024 01:03:49

Lowest Band Edge / 1RB99 and 1RB0



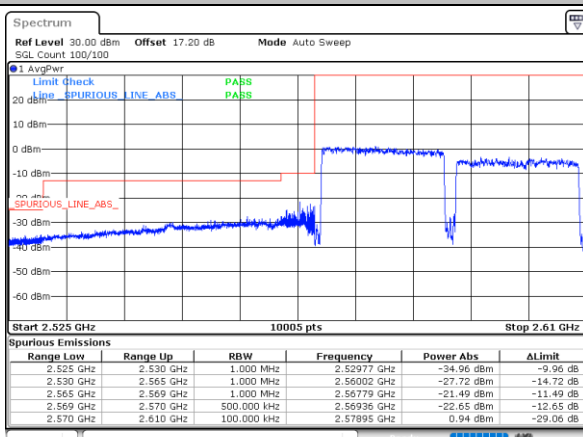
Date: 9.MAR.2024 01:23:48

Highest Band Edge / 1RB99 and 1RB0



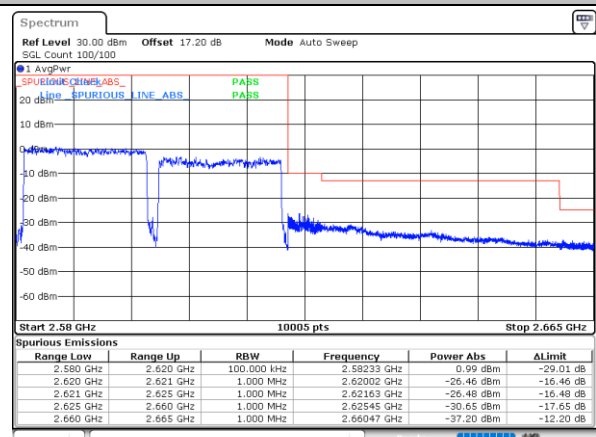
Date: 9.MAR.2024 01:07:28

Lowest Band Edge / Full RB



Date: 9.MAR.2024 01:16:25

Highest Band Edge / Full RB



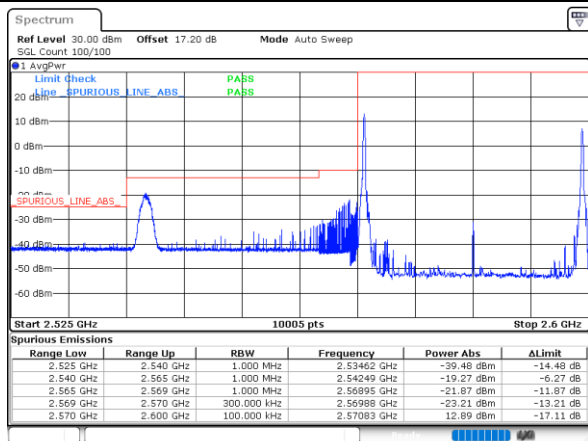
Date: 9.MAR.2024 01:00:09



LTE Band 38C / 15MHz+15MHz

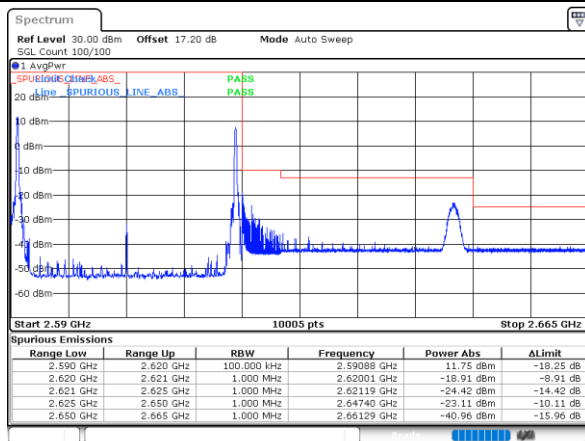
16QAM

Lowest Band Edge / 1RB0 and 1RB74



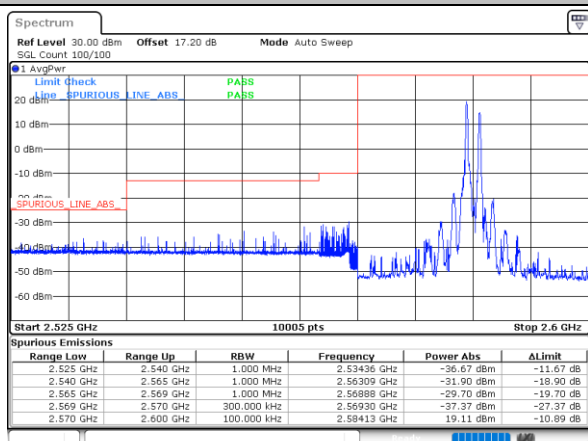
Date: 9.MAR.2024 00:51:04

Highest Band Edge / 1RB0 and 1RB74



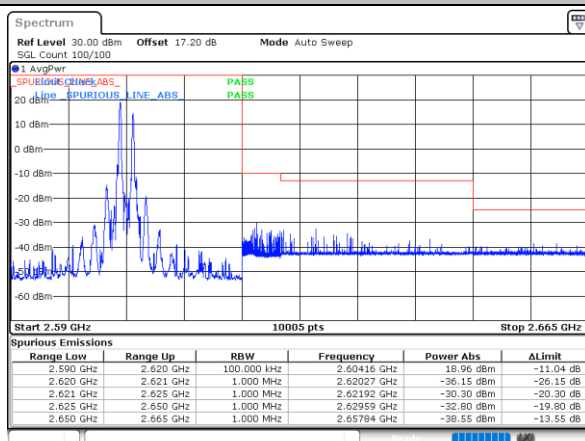
Date: 9.MAR.2024 00:34:54

Lowest Band Edge / 1RB74 and 1RB0



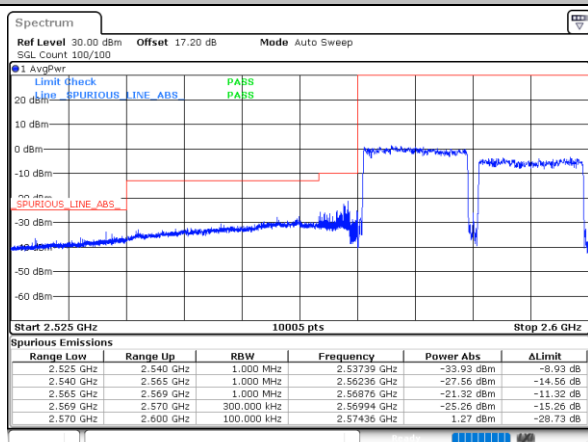
Date: 9.MAR.2024 00:54:45

Highest Band Edge / 1RB74 and 1RB0



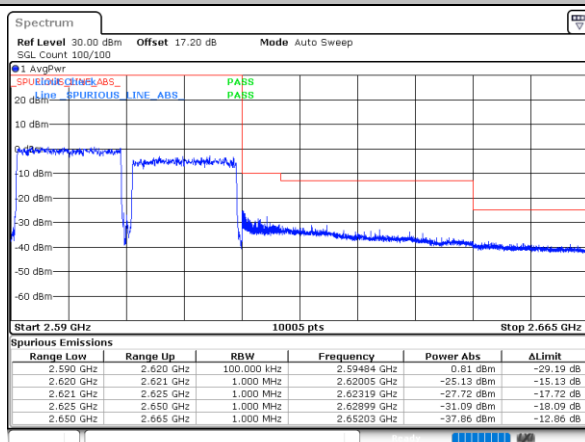
Date: 9.MAR.2024 00:38:33

Lowest Band Edge / Full RB



Date: 9.MAR.2024 00:47:22

Highest Band Edge / Full RB



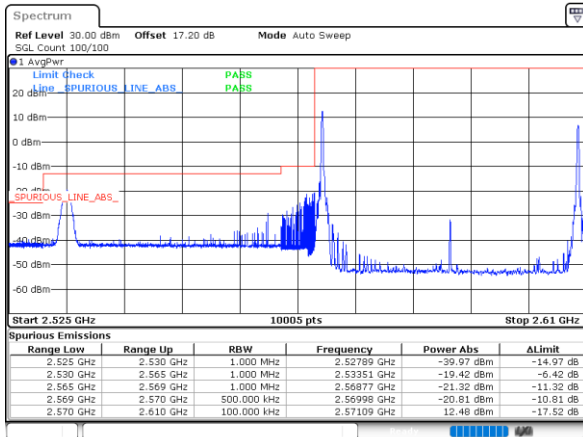
Date: 9.MAR.2024 00:31:15



LTE Band 38C / 20MHz+20MHz

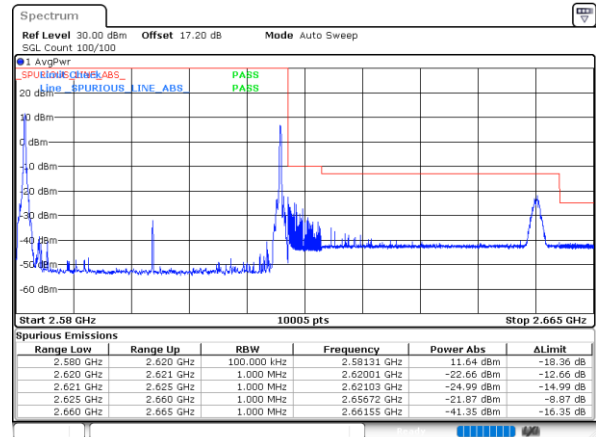
16QAM

Lowest Band Edge / 1RB0 and 1RB99



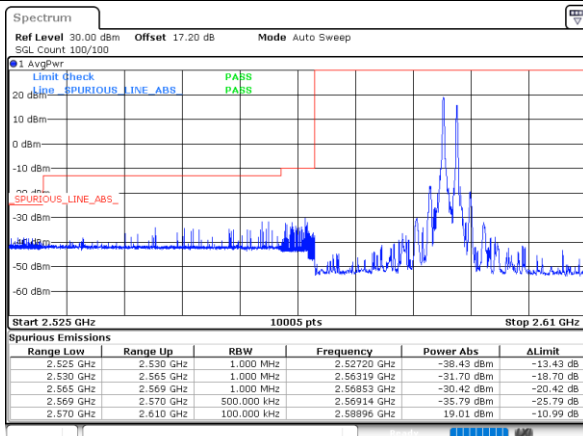
Date: 9.MAR.2024 01:21:02

Highest Band Edge / 1RB0 and 1RB99



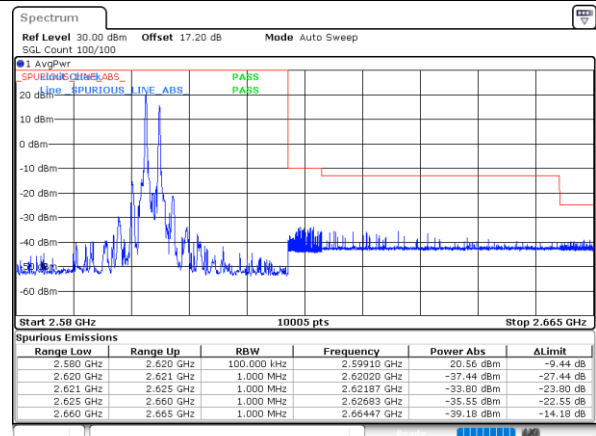
Date: 9.MAR.2024 01:04:43

Lowest Band Edge / 1RB99 and 1RB0



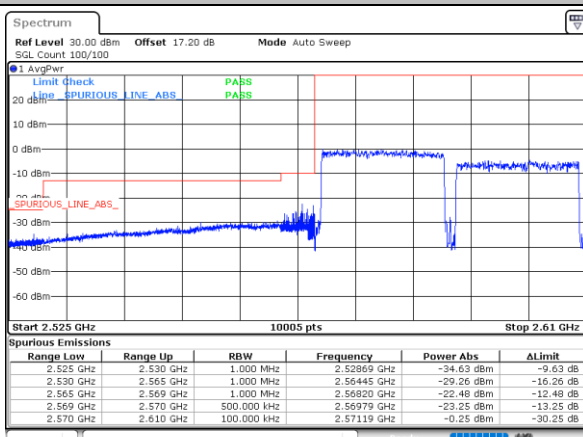
Date: 9.MAR.2024 01:24:43

Highest Band Edge / 1RB99 and 1RB0



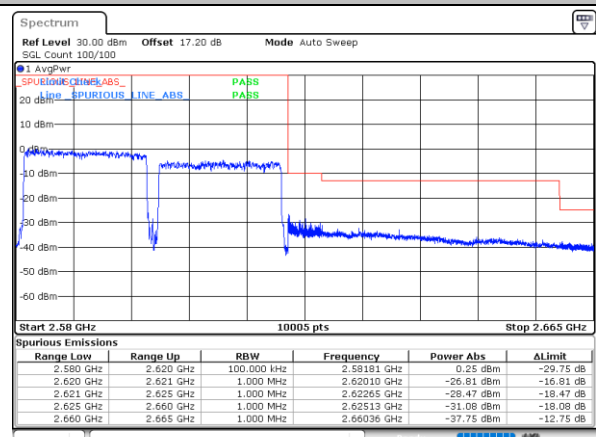
Date: 9.MAR.2024 01:08:23

Lowest Band Edge / Full RB



Date: 9.MAR.2024 01:17:20

Highest Band Edge / Full RB



Date: 9.MAR.2024 01:01:03