



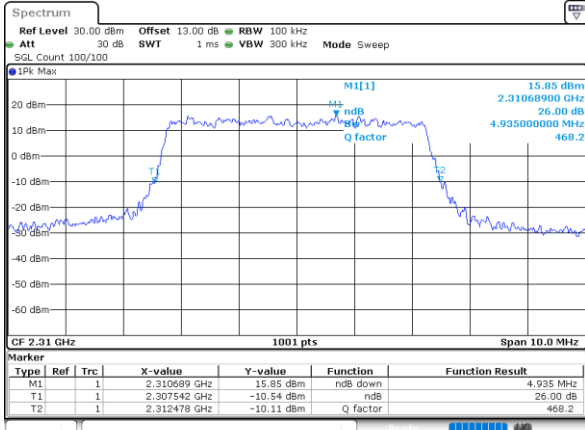
**26dB Bandwidth**

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	-	-	-	-	4.93	4.99	10.02	9.73	-	-	-	-
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	-	-	-	-	5.02	5.02	9.97	9.86	-	-	-	-



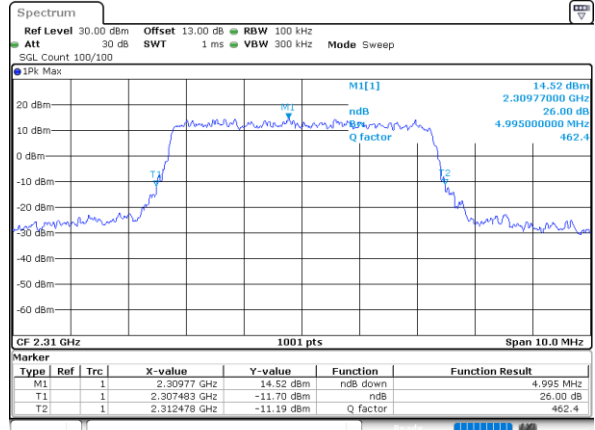
LTE Band 30

Middle Channel / 5MHz / QPSK



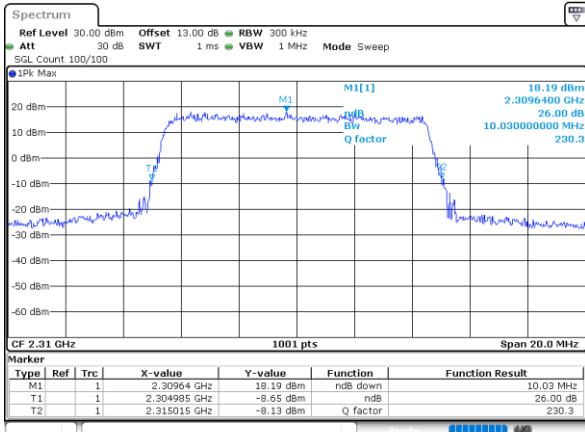
Date: 6.MAY.2024 16:41:16

Middle Channel / 5MHz / 16QAM



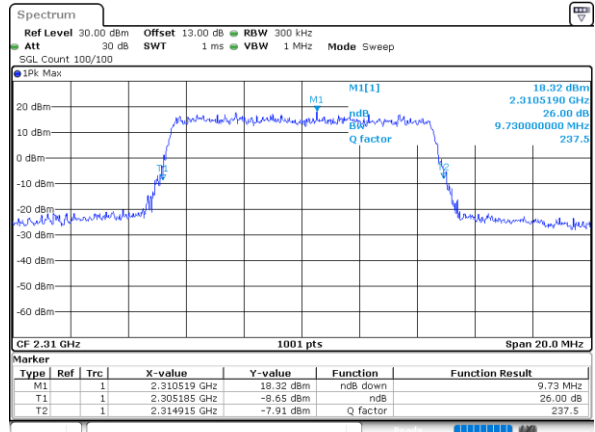
Date: 6.MAY.2024 16:41:49

Middle Channel / 10MHz / QPSK



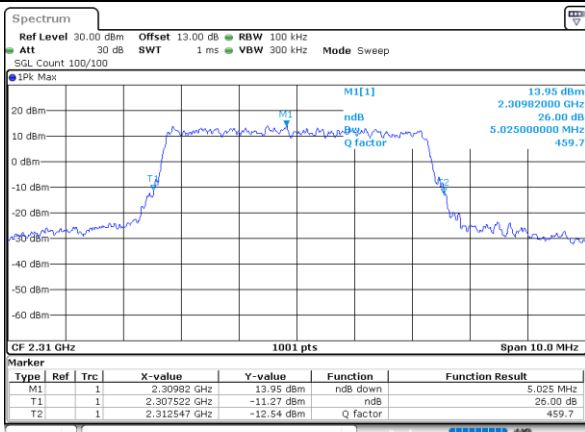
Date: 6.MAY.2024 16:45:19

Middle Channel / 10MHz / 16QAM



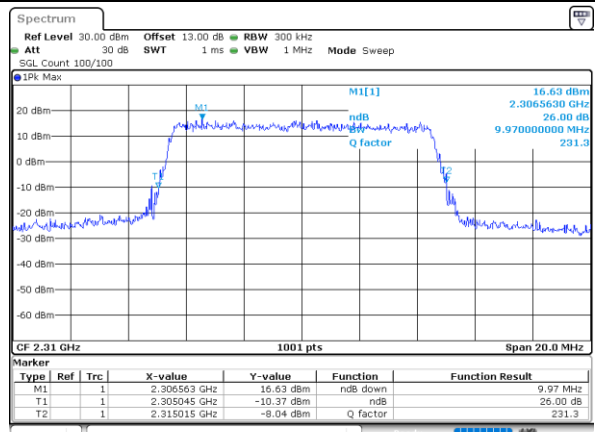
Date: 6.MAY.2024 16:46:12

Middle Channel / 5MHz / 64QAM



Date: 6.MAY.2024 16:42:22

Middle Channel / 10MHz / 64QAM



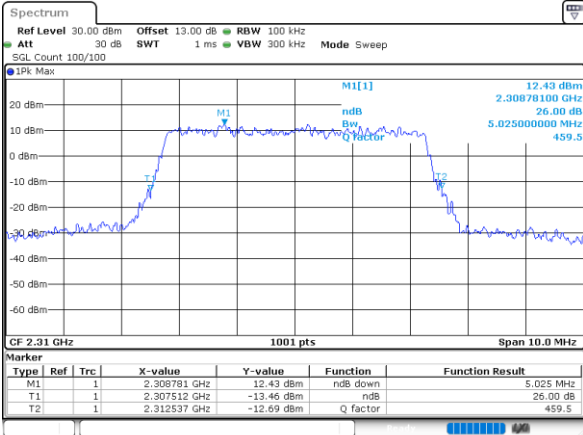
Date: 6.MAY.2024 16:46:45



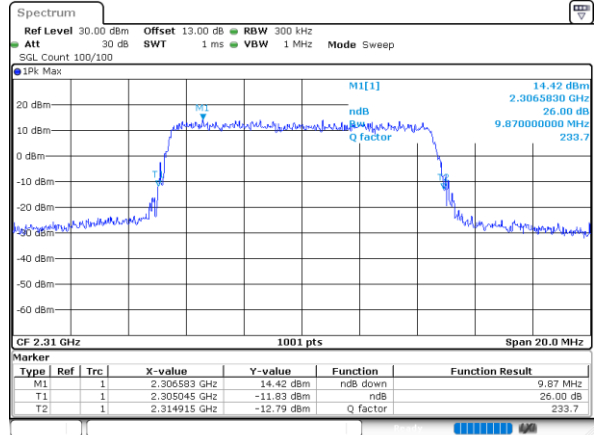
LTE Band 30

Middle Channel / 5MHz / 256QAM

Middle Channel / 10MHz / 256QAM



Date: 6.MAY.2024 16:42:54



Date: 6.MAY.2024 16:47:19



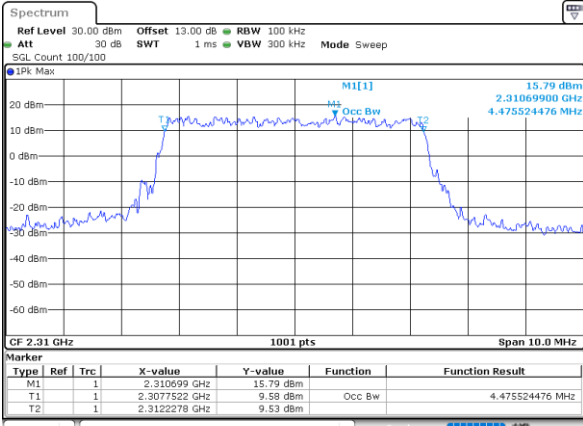
**Occupied Bandwidth**

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	-	-	-	-	4.47	4.52	9.07	9.05	-	-	-	-
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	-	-	-	-	4.48	4.50	9.03	9.07	-	-	-	-



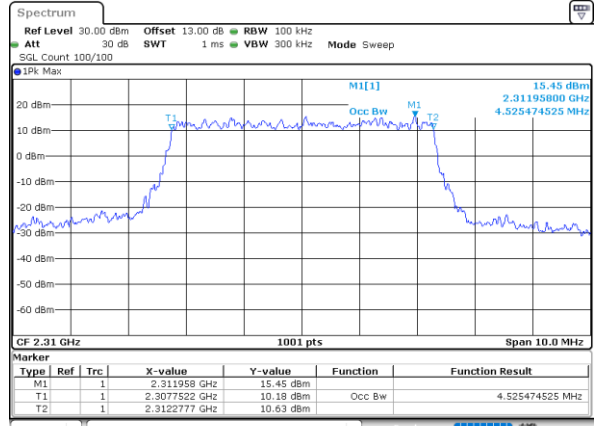
LTE Band 30

Middle Channel / 5MHz / QPSK



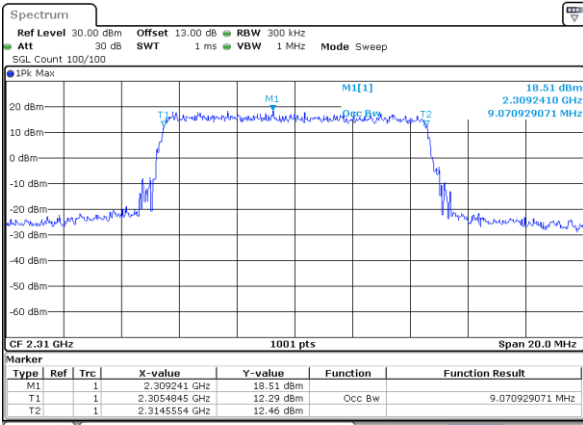
Date: 6.MAY.2024 16:13:55

Middle Channel / 5MHz / 16QAM



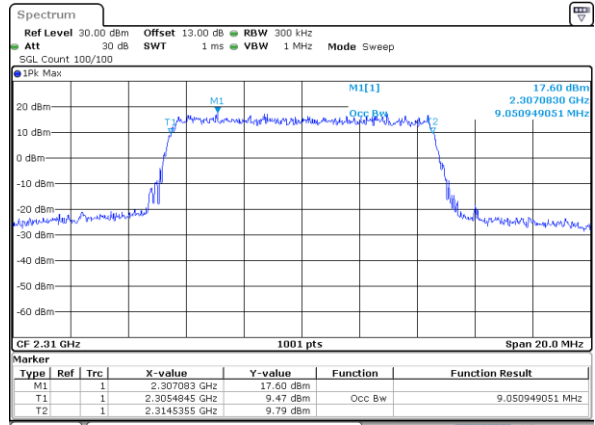
Date: 6.MAY.2024 16:13:31

Middle Channel / 10MHz / QPSK



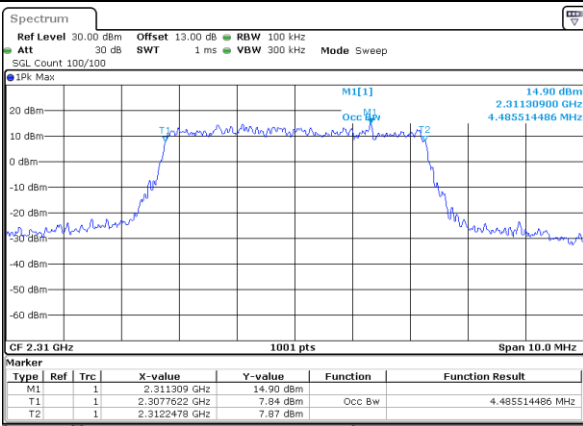
Date: 6.MAY.2024 16:14:27

Middle Channel / 10MHz / 16QAM



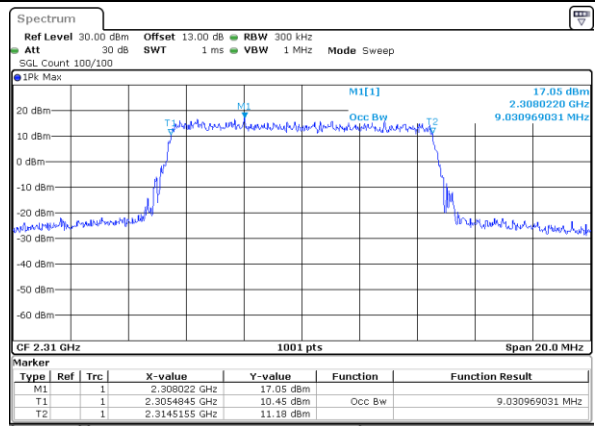
Date: 6.MAY.2024 16:14:03

Middle Channel / 5MHz / 64QAM



Date: 6.MAY.2024 16:14:04

Middle Channel / 10MHz / 64QAM

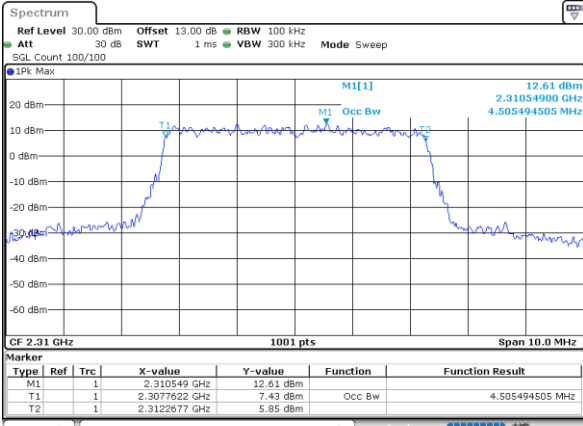


Date: 6.MAY.2024 16:14:35



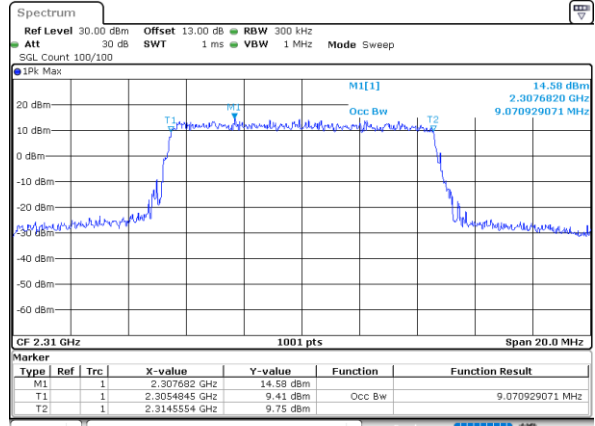
LTE Band 30

Middle Channel / 5MHz / 256QAM



Date: 6.MAY.2024 16:40:40

Middle Channel / 10MHz / 256QAM



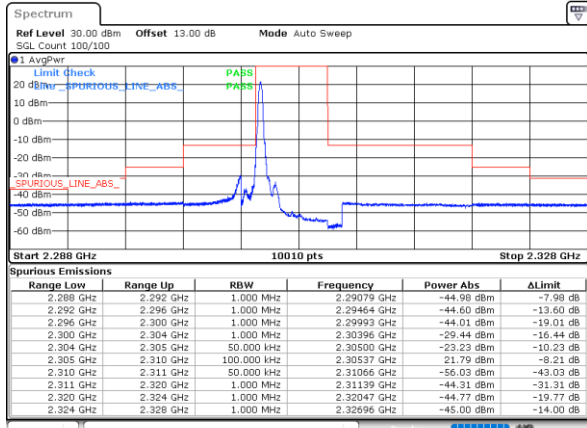
Date: 6.MAY.2024 16:45:06



# Conducted Band Edge

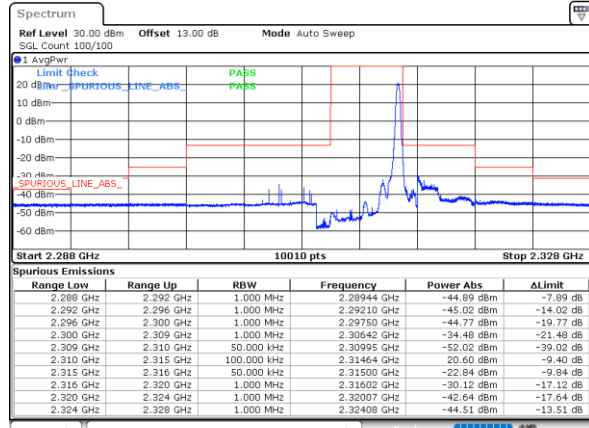
## LTE Band 30 / 5MHz / QPSK

### Lowest Band Edge / 1 RB



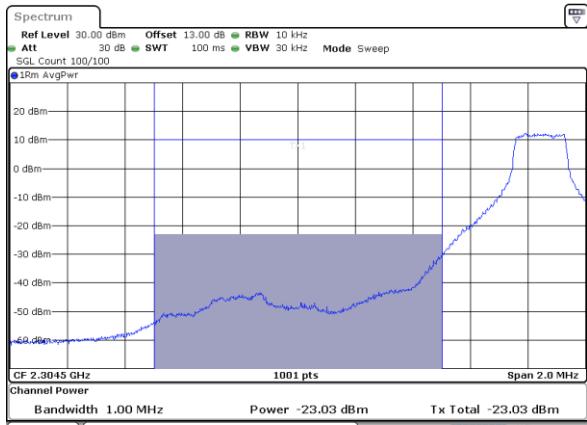
Date: 6.MAY.2024 16:02:42

### Highest Band Edge / 1 RB



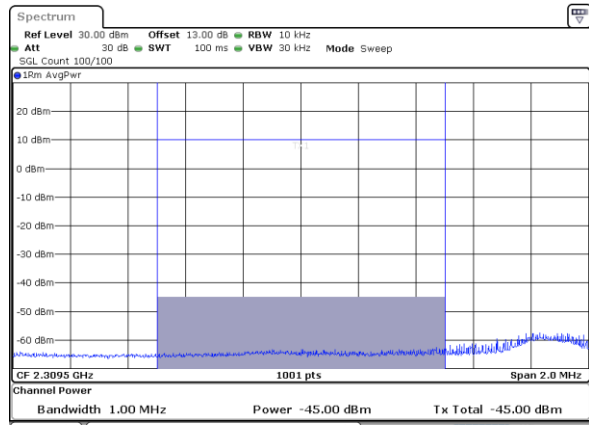
Date: 6.MAY.2024 16:15:19

### Lowest Band Edge / 1 RB / Lower zoom in



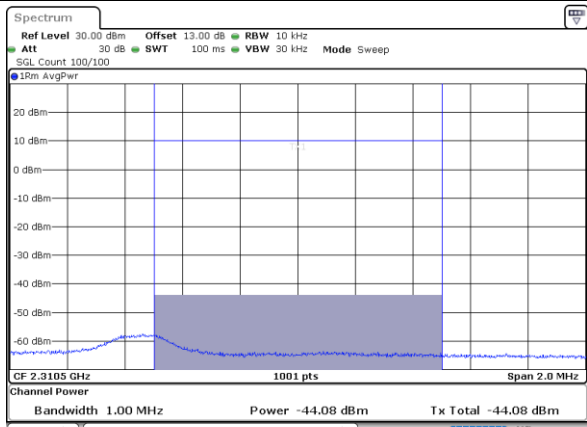
Date: 8.MAY.2024 16:09:28

### Highest Band Edge / 1 RB / Lower zoom in



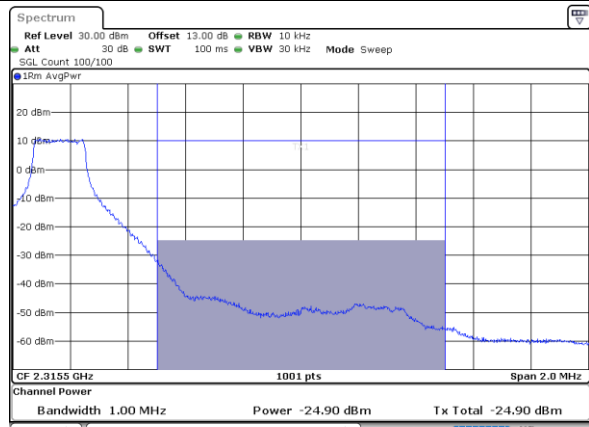
Date: 8.MAY.2024 15:44:20

### Lowest Band Edge / 1 RB / Upper zoom in



Date: 8.MAY.2024 16:10:40

### Highest Band Edge / 1 RB / Upper zoom in



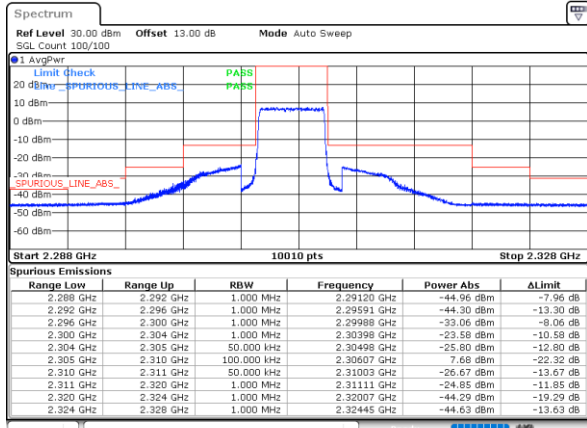
Date: 8.MAY.2024 15:45:55





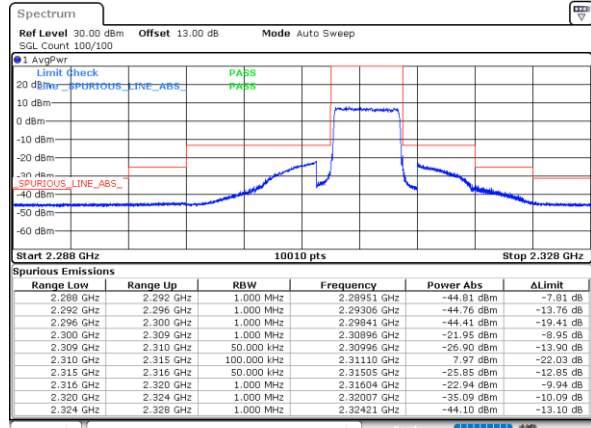
LTE Band 30 / 5MHz / QPSK

Lowest Band Edge / Full RB



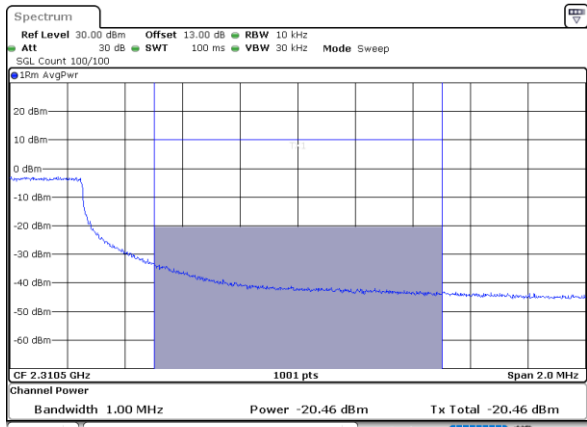
Date: 6.MAY.2024 16:10:46

Highest Band Edge / Full RB



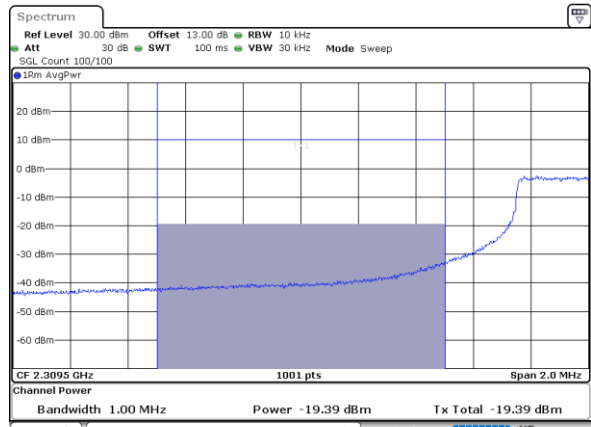
Date: 6.MAY.2024 16:19:51

Lowest Band Edge / Full RB / Lower zoom in



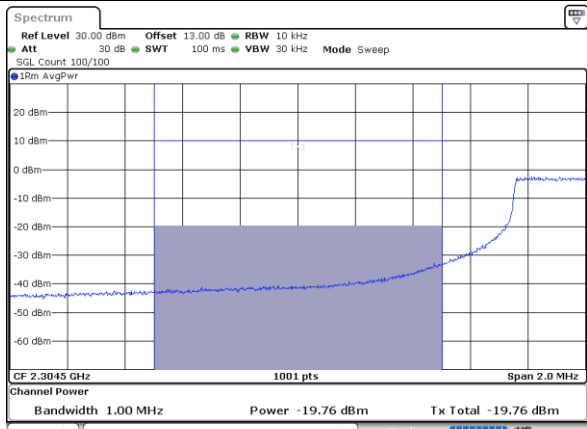
Date: 8.MAY.2024 16:30:11

Highest Band Edge / Full RB / Lower zoom in



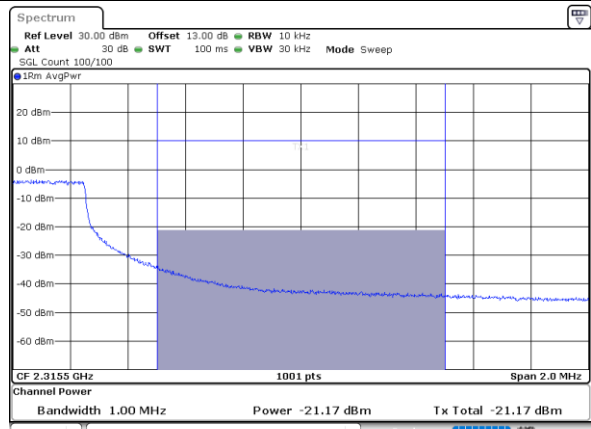
Date: 8.MAY.2024 15:56:34

Lowest Band Edge / Full RB / Upper zoom in



Date: 8.MAY.2024 16:27:19

Highest Band Edge / Full RB / Upper zoom in

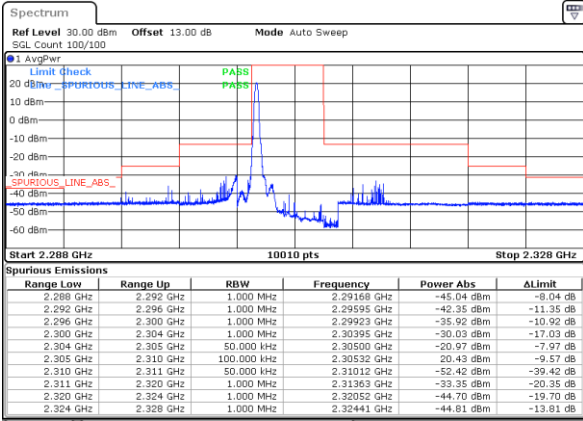


Date: 8.MAY.2024 15:57:41



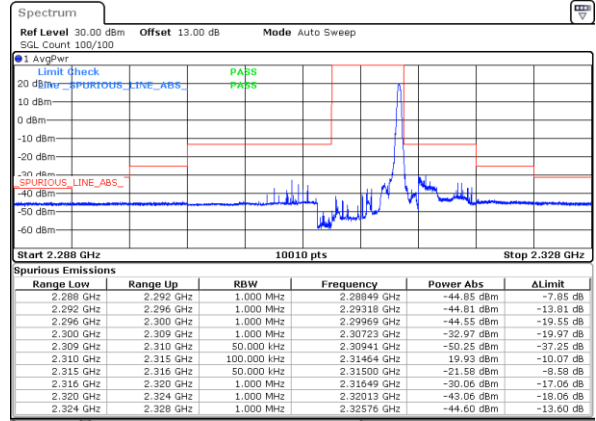
LTE Band 30 / 5MHz / 16QAM

Lowest Band Edge / 1 RB



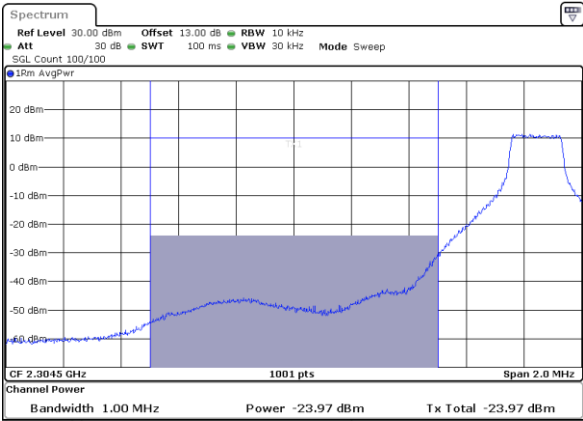
Date: 6.MAY.2024 16:03:48

Highest Band Edge / 1 RB



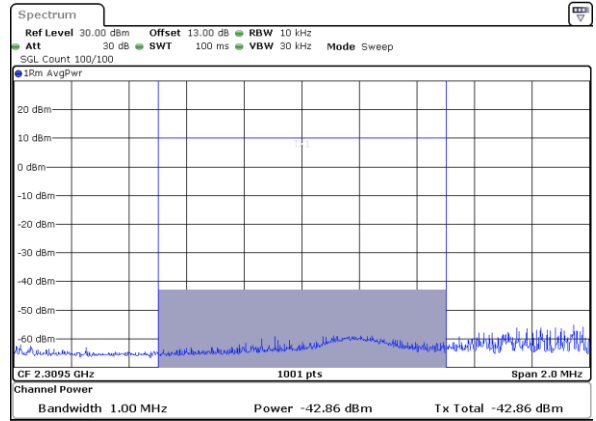
Date: 6.MAY.2024 16:16:26

Lowest Band Edge / 1 RB / Lower zoom in



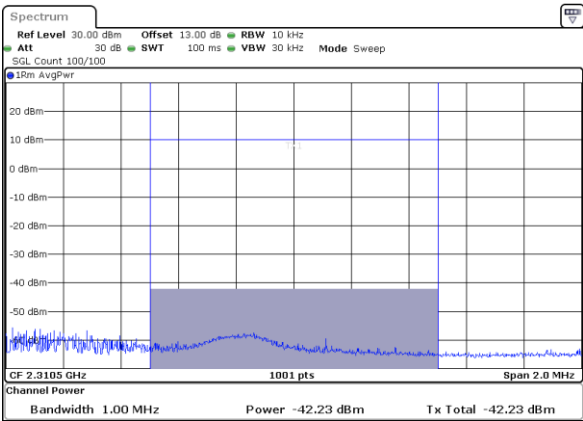
Date: 8.MAY.2024 15:59:00

Highest Band Edge / 1 RB / Lower zoom in



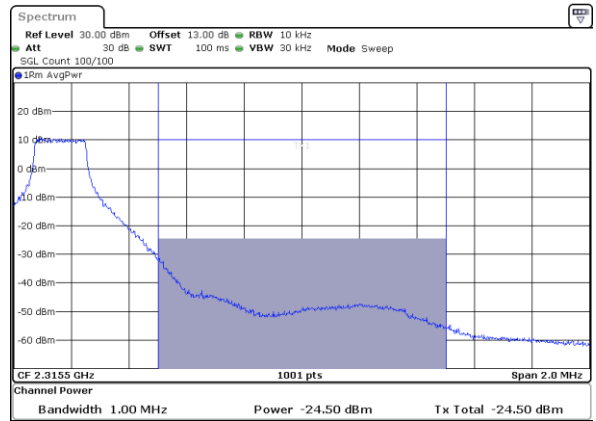
Date: 8.MAY.2024 15:32:14

Lowest Band Edge / 1 RB / Upper zoom in



Date: 8.MAY.2024 16:00:45

Highest Band Edge / 1 RB / Upper zoom in

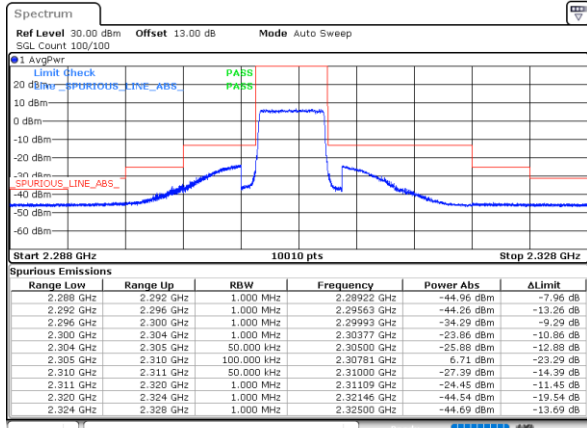


Date: 8.MAY.2024 15:33:44



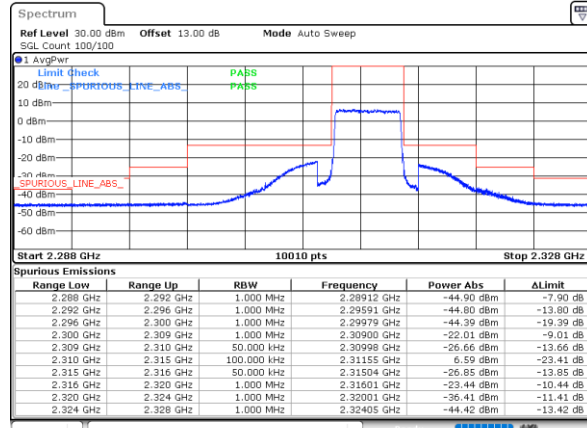
LTE Band 30 / 5MHz / 16QAM

Lowest Band Edge / Full RB



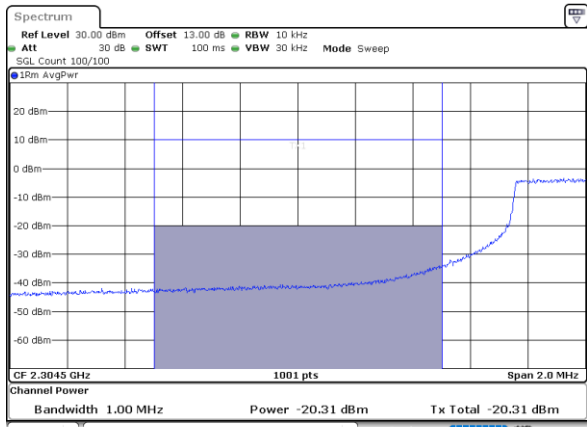
Date: 6.MAY.2024 16:11:52

Highest Band Edge / Full RB



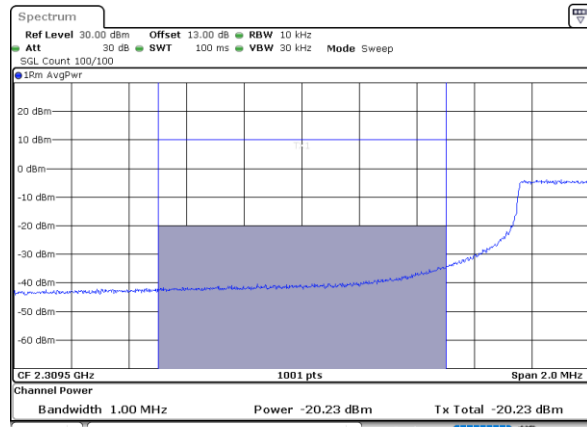
Date: 6.MAY.2024 16:20:59

Lowest Band Edge / Full RB / Lower zoom in



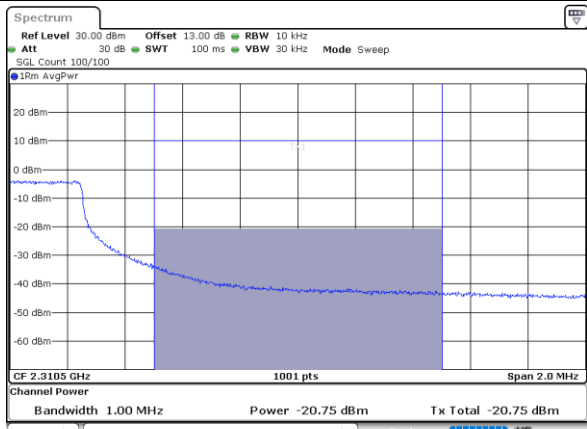
Date: 8.MAY.2024 16:12:51

Highest Band Edge / Full RB / Lower zoom in



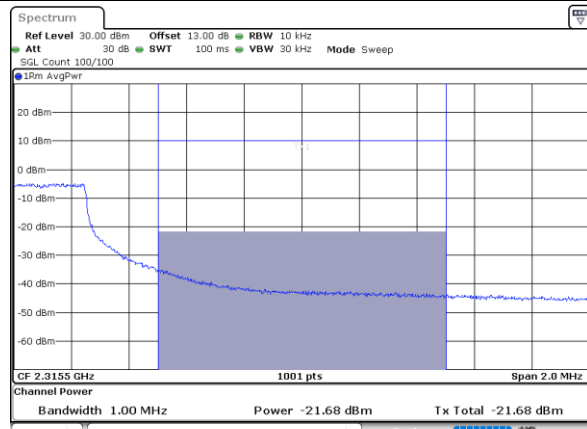
Date: 8.MAY.2024 16:47:09

Lowest Band Edge / Full RB / Upper zoom in



Date: 8.MAY.2024 16:15:01

Highest Band Edge / Full RB / Upper zoom in

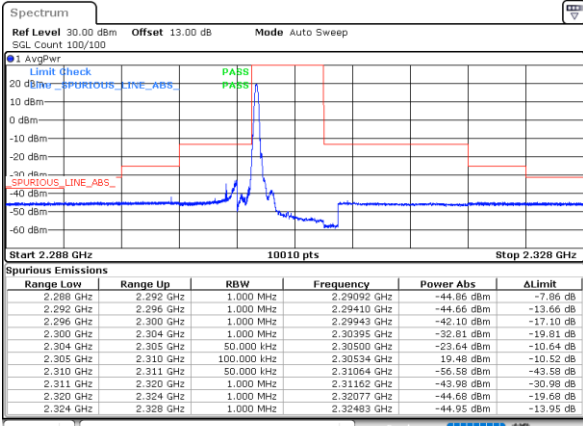


Date: 8.MAY.2024 16:47:56



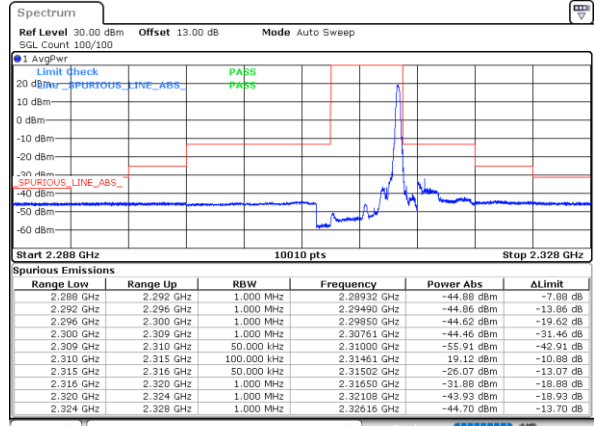
LTE Band 30 / 5MHz / 64QAM

Lowest Band Edge / 1 RB



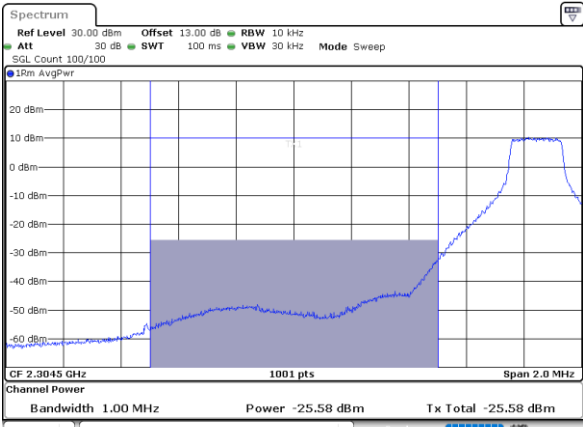
Date: 6.MAY.2024 16:04:54

Highest Band Edge / 1 RB



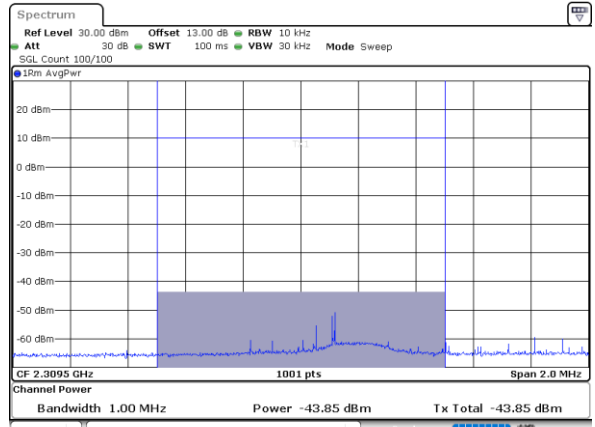
Date: 6.MAY.2024 16:17:33

Lowest Band Edge / 1 RB / Lower zoom in



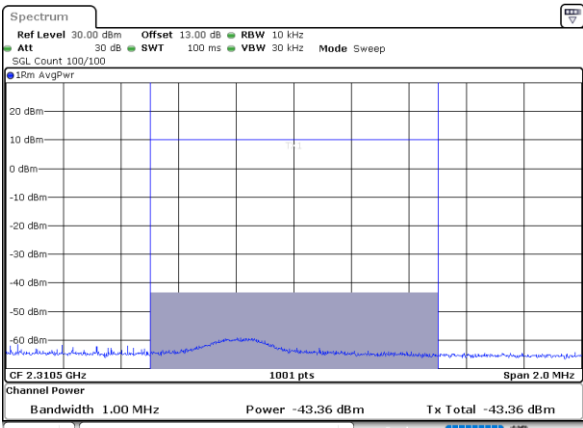
Date: 8.MAY.2024 16:01:49

Highest Band Edge / 1 RB / Lower zoom in



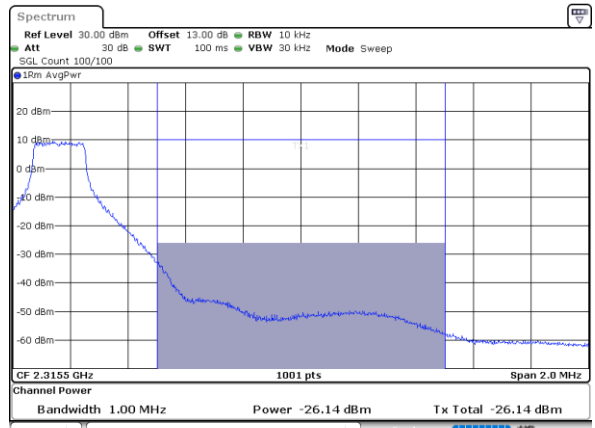
Date: 8.MAY.2024 15:36:41

Lowest Band Edge / 1 RB / Upper zoom in



Date: 8.MAY.2024 16:02:55

Highest Band Edge / 1 RB / Upper zoom in

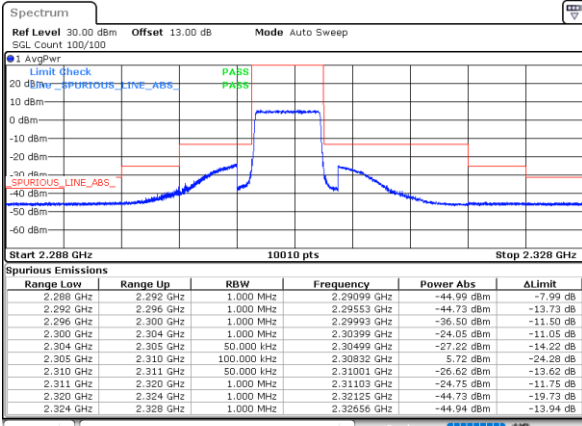


Date: 8.MAY.2024 15:38:12



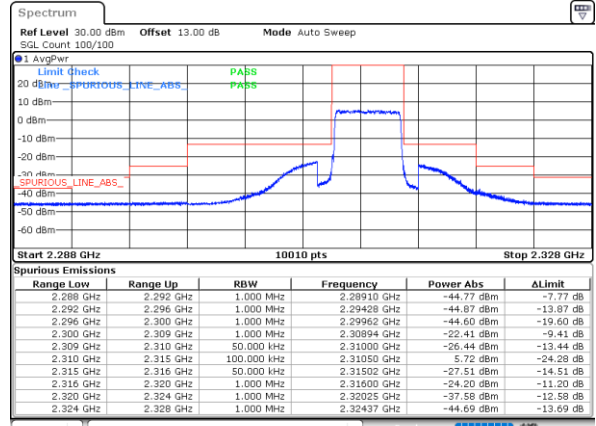
LTE Band 30 / 5MHz / 64QAM

Lowest Band Edge / Full RB



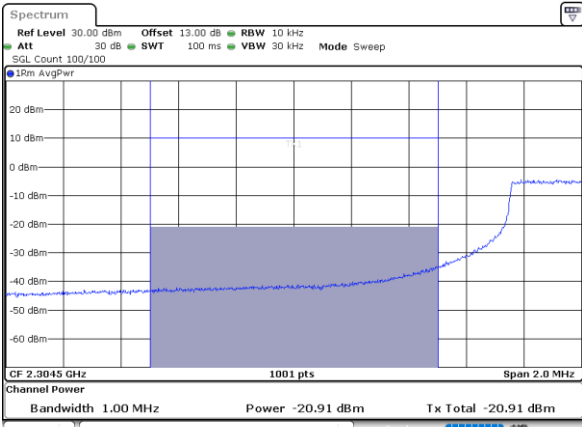
Date: 6.MAY.2024 16:13:00

Highest Band Edge / Full RB



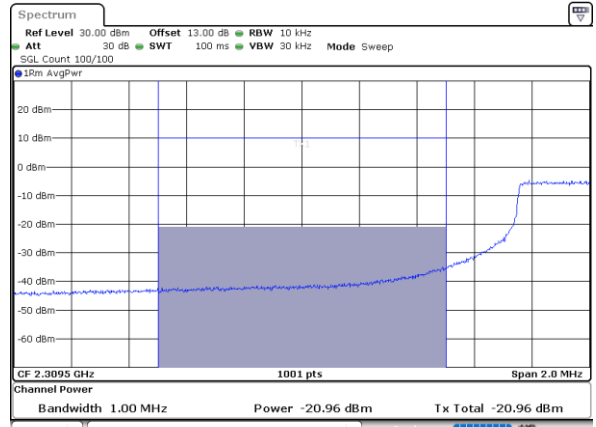
Date: 6.MAY.2024 16:22:07

Lowest Band Edge / Full RB / Lower zoom in



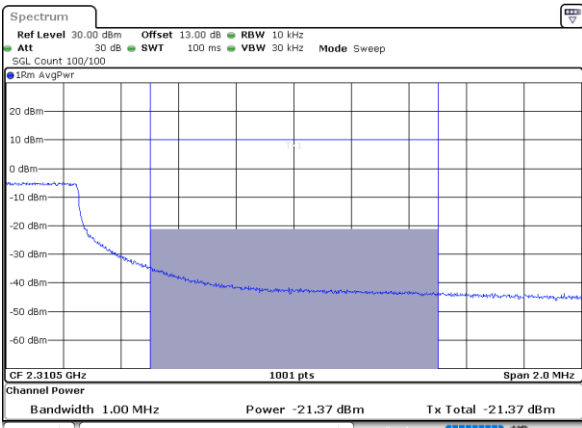
Date: 8.MAY.2024 16:16:43

Highest Band Edge / Full RB / Lower zoom in



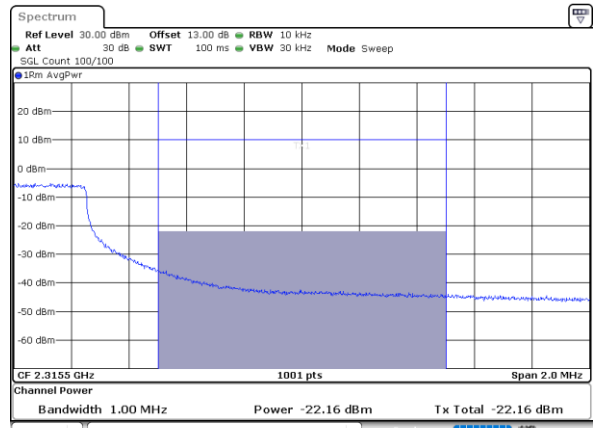
Date: 8.MAY.2024 15:49:11

Lowest Band Edge / Full RB / Upper zoom in



Date: 8.MAY.2024 16:18:44

Highest Band Edge / Full RB / Upper zoom in

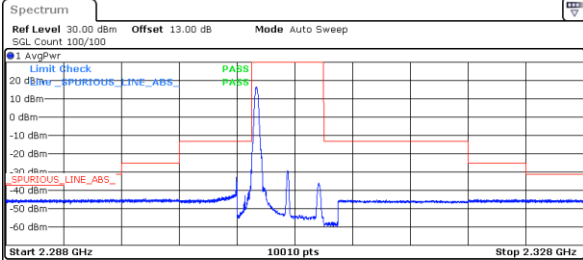


Date: 8.MAY.2024 15:50:58



LTE Band 30 / 5MHz / 256QAM

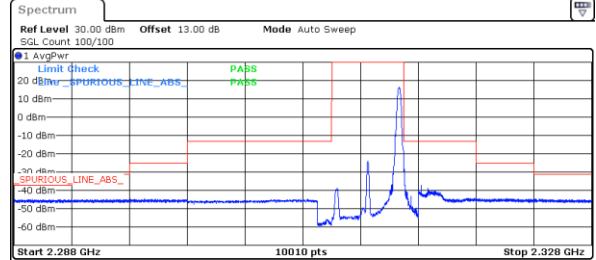
Lowest Band Edge / 1 RB



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.288 GHz	2.292 GHz	1.000 MHz	2.29042 GHz	-44.91 dBm	-7.91 dB
2.292 GHz	2.296 GHz	1.000 MHz	2.29366 GHz	-44.88 dBm	-13.88 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29768 GHz	-44.44 dBm	-19.44 dB
2.300 GHz	2.304 GHz	1.000 MHz	2.30397 GHz	-32.60 dBm	-19.60 dB
2.304 GHz	2.305 GHz	50.000 kHz	2.30498 GHz	-28.70 dBm	-15.70 dB
2.305 GHz	2.310 GHz	100.000 kHz	2.30534 GHz	16.32 dBm	-13.68 dB
2.310 GHz	2.311 GHz	50.000 kHz	2.31059 GHz	-57.07 dBm	-44.07 dB
2.311 GHz	2.320 GHz	1.000 MHz	2.31164 GHz	-45.06 dBm	-32.06 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32063 GHz	-44.98 dBm	-19.98 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32707 GHz	-44.97 dBm	-13.97 dB

Date: 6.MAY.2024 16:10:12

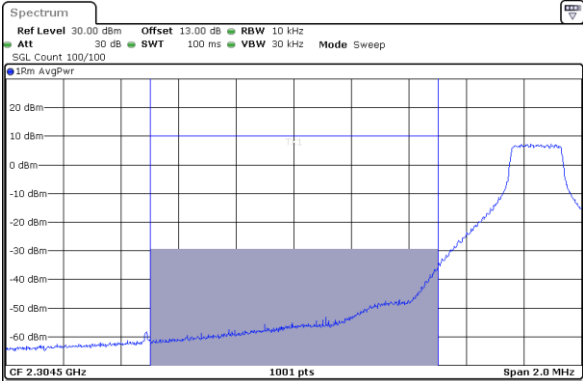
Highest Band Edge / 1 RB



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.288 GHz	2.292 GHz	1.000 MHz	2.28927 GHz	-44.75 dBm	-7.75 dB
2.292 GHz	2.296 GHz	1.000 MHz	2.29442 GHz	-45.00 dBm	-14.00 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29637 GHz	-44.82 dBm	-19.82 dB
2.300 GHz	2.305 GHz	1.000 MHz	2.30786 GHz	-44.91 dBm	-31.91 dB
2.305 GHz	2.310 GHz	50.000 kHz	2.30968 GHz	-55.93 dBm	-42.93 dB
2.310 GHz	2.315 GHz	100.000 kHz	2.31469 GHz	16.44 dBm	-13.56 dB
2.315 GHz	2.316 GHz	50.000 kHz	2.31502 GHz	-28.23 dBm	-15.23 dB
2.316 GHz	2.320 GHz	1.000 MHz	2.31622 GHz	-37.10 dBm	-24.10 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32212 GHz	-44.55 dBm	-19.55 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32441 GHz	-44.86 dBm	-13.86 dB

Date: 6.MAY.2024 16:18:42

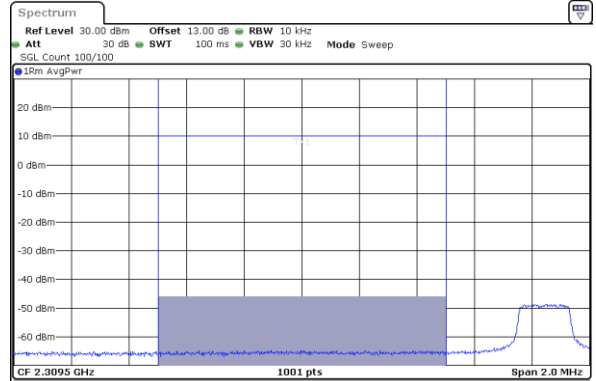
Lowest Band Edge / 1 RB / Lower zoom in



Channel Power: Bandwidth 1.00 MHz, Power -29.50 dBm, Tx Total -29.50 dBm

Date: 8.MAY.2024 16:05:13

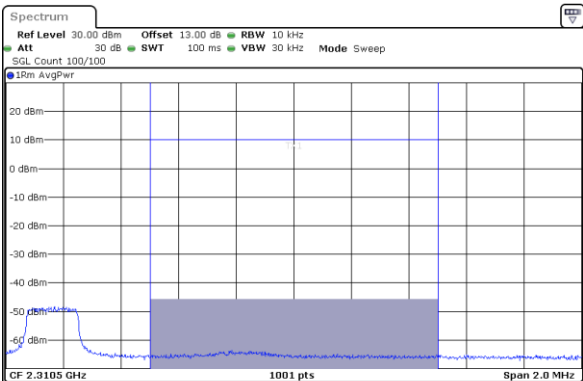
Highest Band Edge / 1 RB / Lower zoom in



Channel Power: Bandwidth 1.00 MHz, Power -45.94 dBm, Tx Total -45.94 dBm

Date: 8.MAY.2024 15:39:03

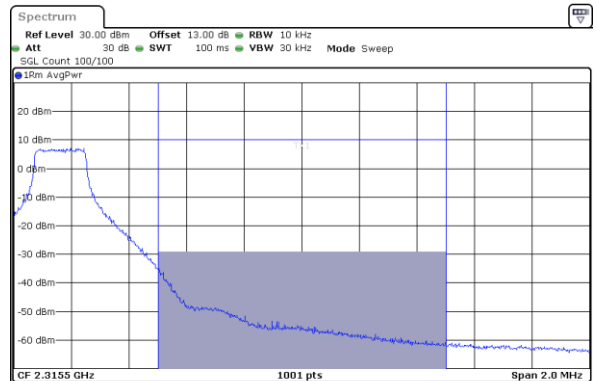
Lowest Band Edge / 1 RB / Upper zoom in



Channel Power: Bandwidth 1.00 MHz, Power -45.77 dBm, Tx Total -45.77 dBm

Date: 8.MAY.2024 16:06:50

Highest Band Edge / 1 RB / Upper zoom in



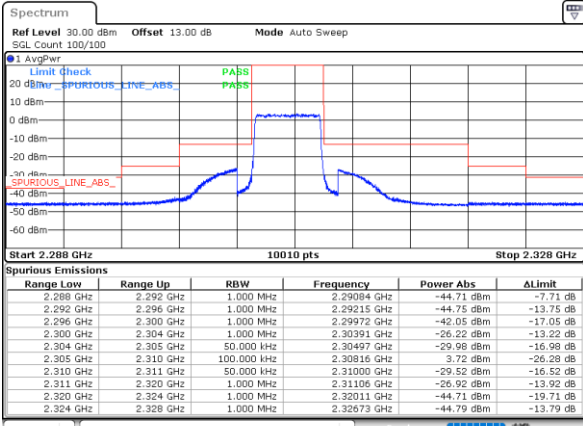
Channel Power: Bandwidth 1.00 MHz, Power -29.16 dBm, Tx Total -29.16 dBm

Date: 8.MAY.2024 15:42:38



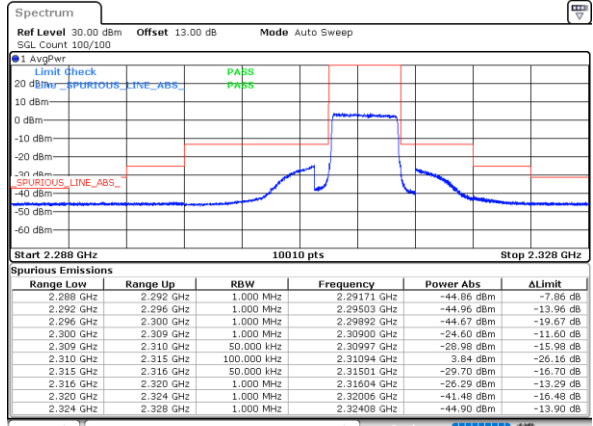
LTE Band 30 / 5MHz / 256QAM

Lowest Band Edge / Full RB



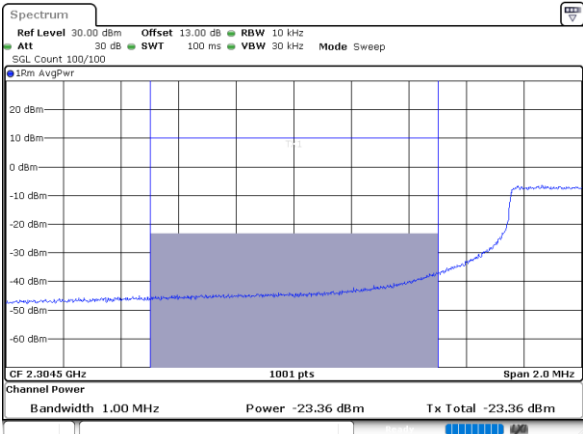
Date: 6.MAY.2024 16:14:08

Highest Band Edge / Full RB



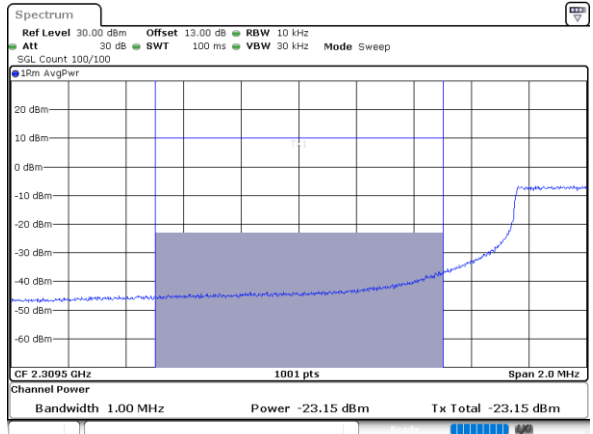
Date: 6.MAY.2024 16:23:16

Lowest Band Edge / Full RB / Lower zoom in



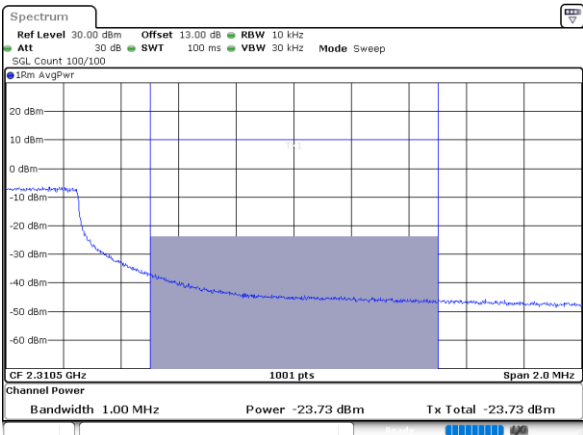
Date: 8.MAY.2024 16:20:12

Highest Band Edge / Full RB / Lower zoom in



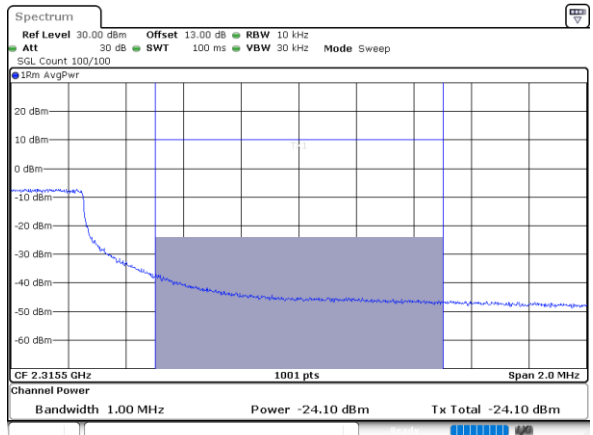
Date: 8.MAY.2024 15:53:15

Lowest Band Edge / Full RB / Upper zoom in



Date: 8.MAY.2024 16:25:37

Highest Band Edge / Full RB / Upper zoom in

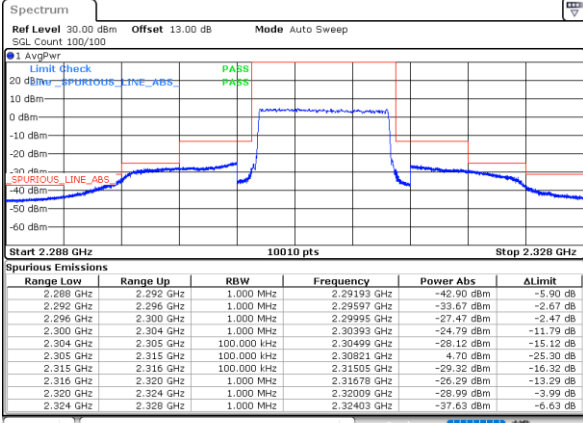


Date: 8.MAY.2024 15:55:24



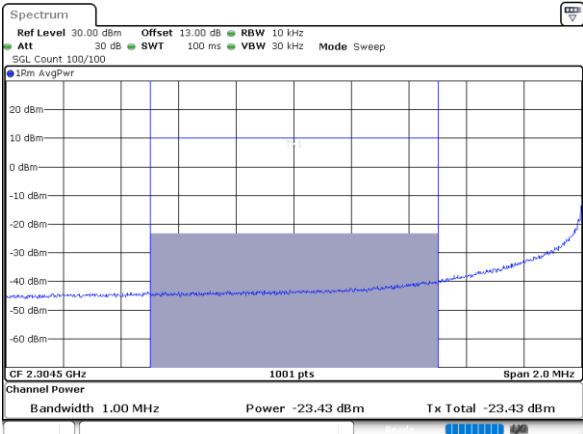
LTE Band 30 / 10MHz / QPSK

Middle Band Edge / Full RB



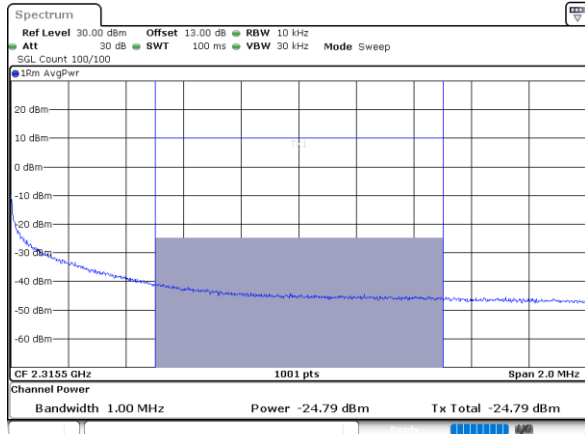
Date: 6.MAY.2024 16:13:51

Middle Band Edge / Full RB / Lower zoom in



Date: 8.MAY.2024 16:42:34

Middle Band Edge / Full RB / Upper zoom in



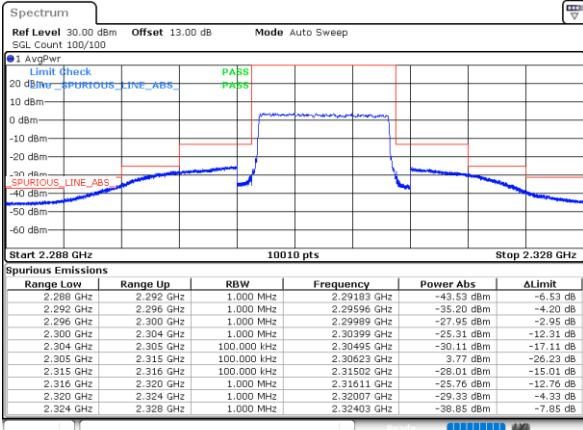
Date: 8.MAY.2024 16:44:38





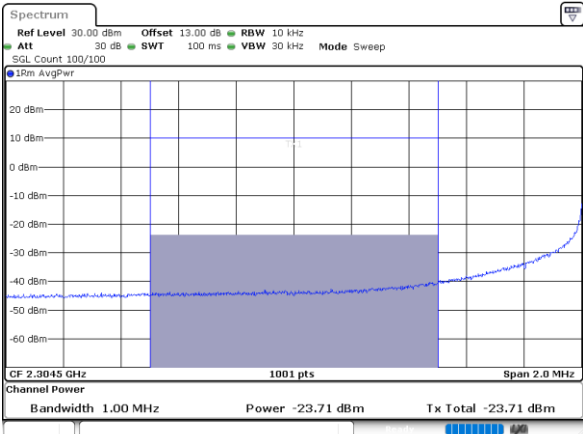
LTE Band 30 / 10MHz / 16QAM

Middle Band Edge / Full RB



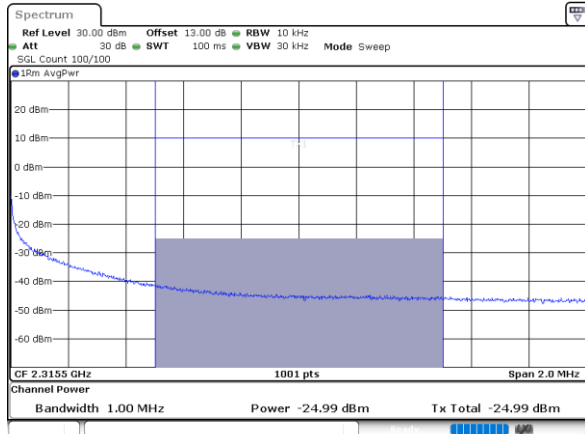
Date: 6.MAY.2024 16:31:56

Middle Band Edge / Full RB / Lower zoom in



Date: 8.MAY.2024 16:32:48

Middle Band Edge / Full RB / Upper zoom in

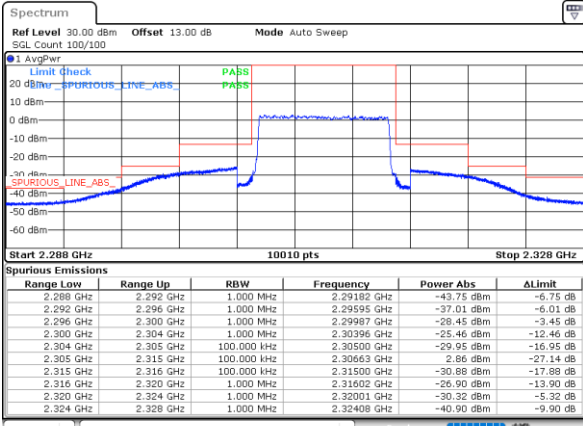


Date: 8.MAY.2024 16:34:42



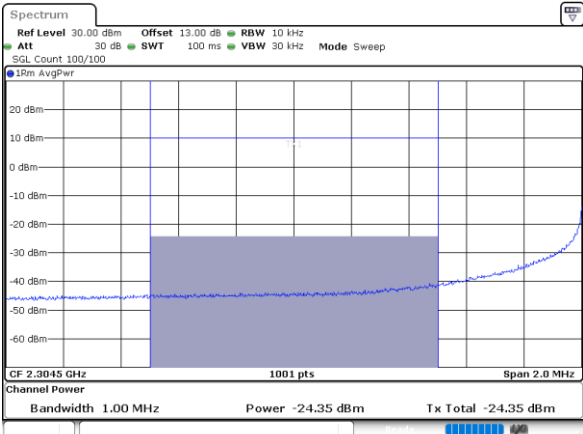
LTE Band 30 / 10MHz / 64QAM

Middle Band Edge / Full RB



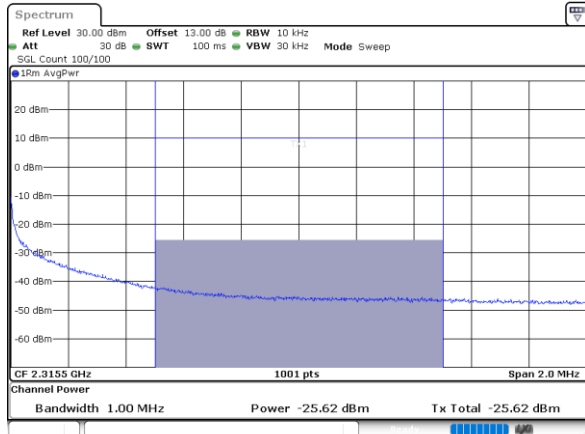
Date: 6.MAY.2024 16:13:02

Middle Band Edge / Full RB / Lower zoom in



Date: 8.MAY.2024 16:13:04

Middle Band Edge / Full RB / Upper zoom in

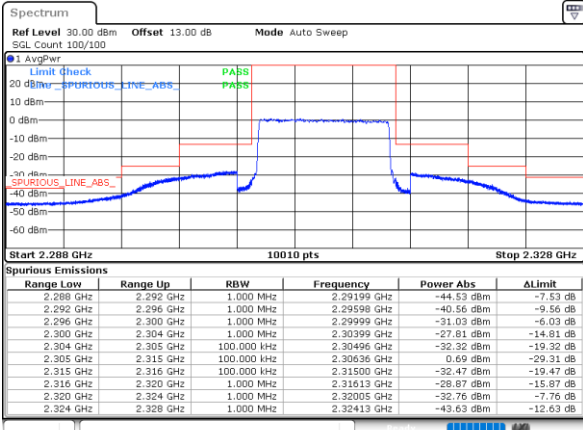


Date: 8.MAY.2024 16:39:01



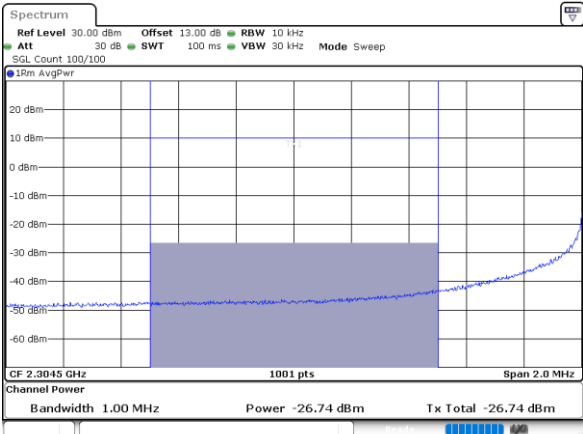
LTE Band 30 / 10MHz / 256QAM

Middle Band Edge / Full RB



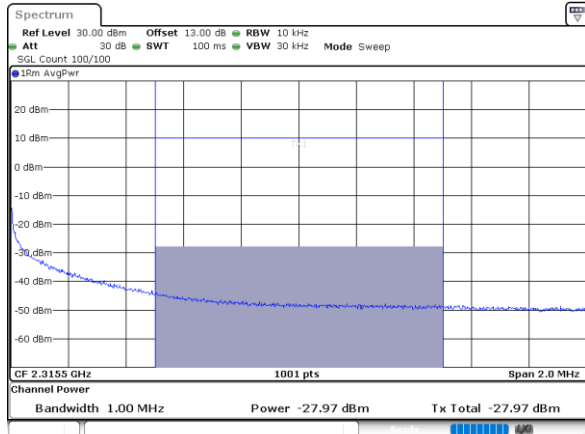
Date: 6.MAY.2024 16:13:109

Middle Band Edge / Full RB / Lower zoom in



Date: 8.MAY.2024 16:40:102

Middle Band Edge / Full RB / Upper zoom in



Date: 8.MAY.2024 16:42:58

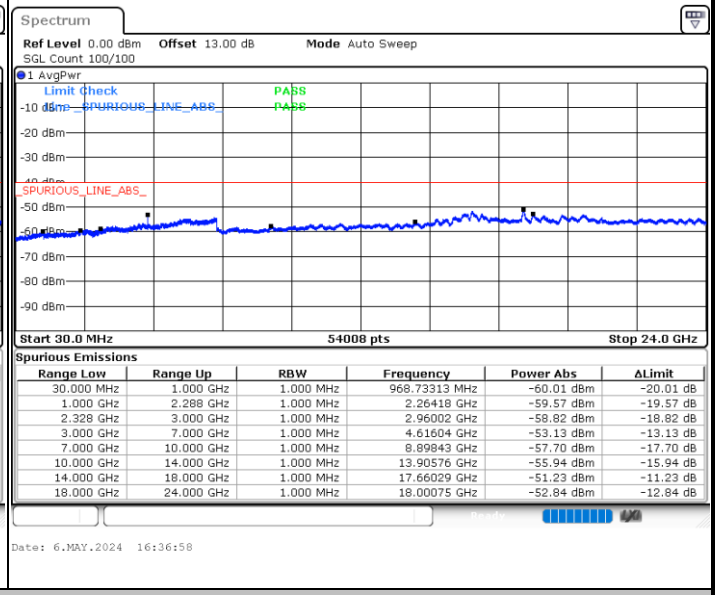
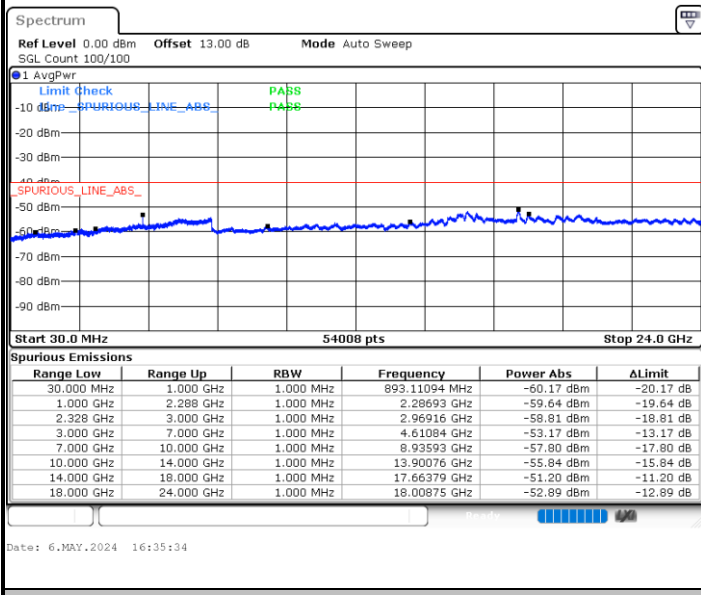


# Conducted Spurious Emission

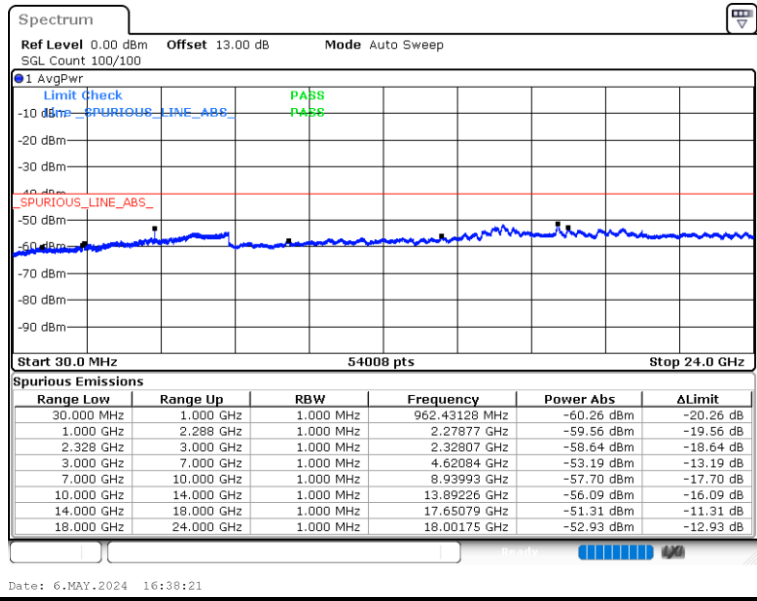
## LTE Band 30 / 5MHz

### Lowest Channel / QPSK

### Middle Channel / QPSK



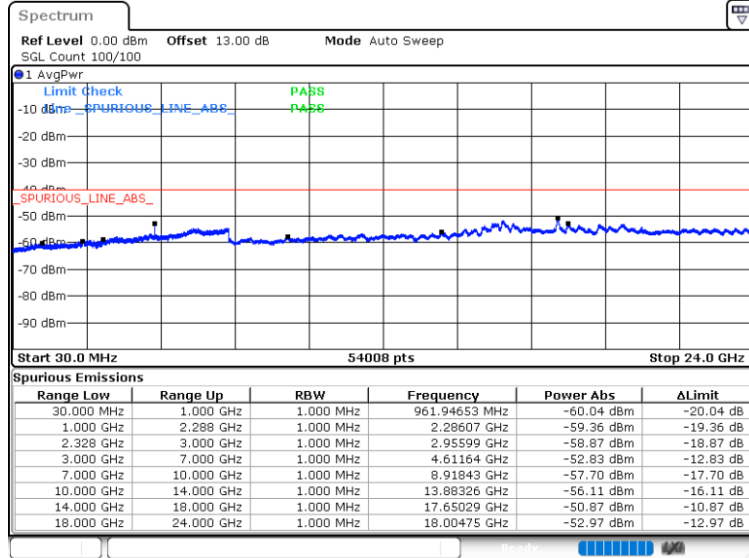
### Highest Channel / QPSK





LTE Band 30 / 10MHz

Middle Channel / QPSK



Date: 6.MAY.2024 16:51:01



### 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	0.0060	PASS
40	Normal Voltage	0.0058	
30	Normal Voltage	0.0002	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0007	
0	Normal Voltage	0.0030	
-10	Normal Voltage	0.0039	
-20	Normal Voltage	0.0009	
20	Maximum Voltage	0.0002	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0028	

**Note:**

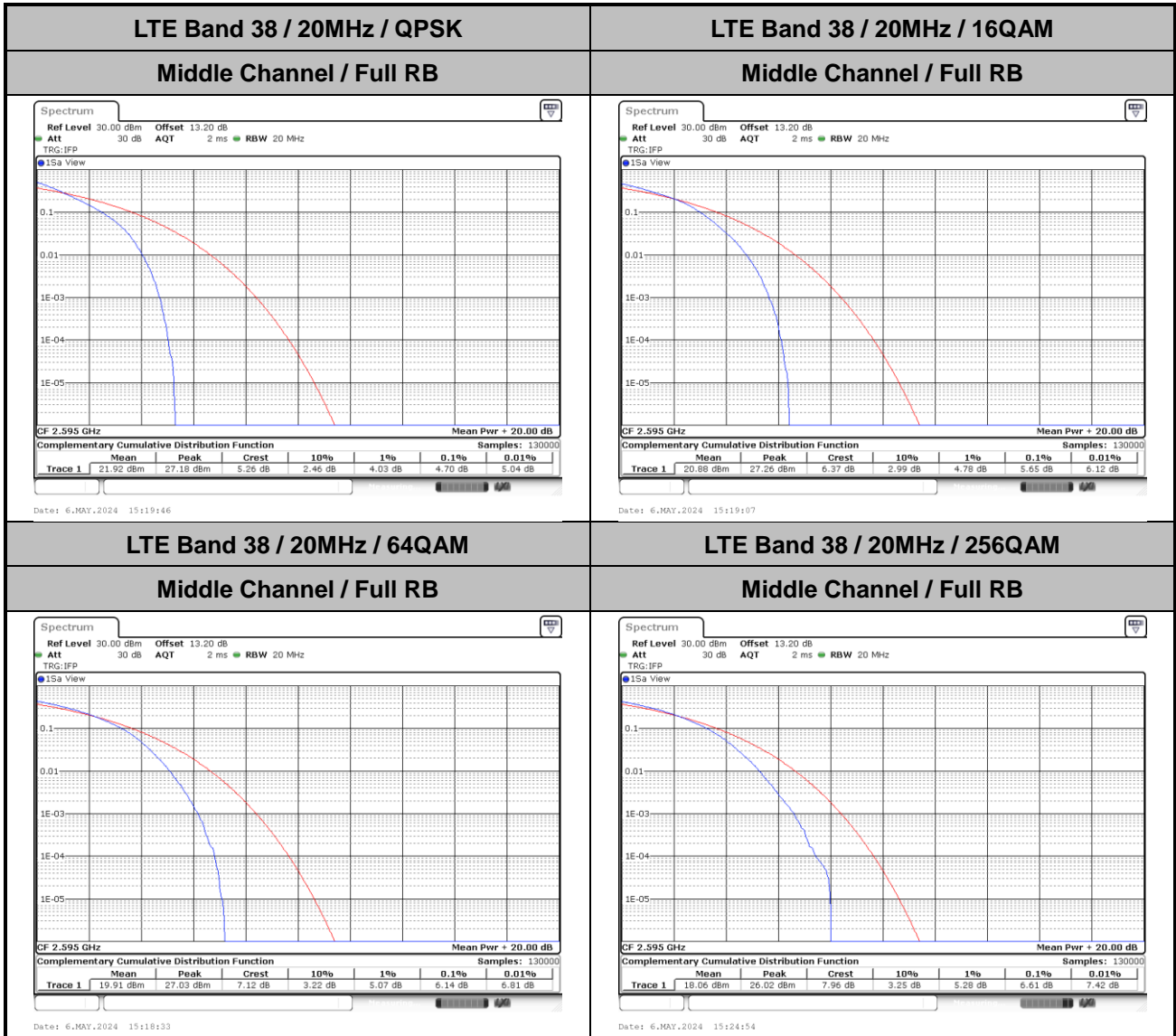
- 1. Normal Voltage = 3.86 V. ; Battery End Point (BEP) = 3.5 V. ; Maximum Voltage = 4.4 V.
- 2. The frequency fundamental emissions stay within the authorized frequency block.



## LTE Band 38

### Peak-to-Average Ratio

Mode	LTE Band 38 / 20MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.70	5.65	6.14	6.61	PASS







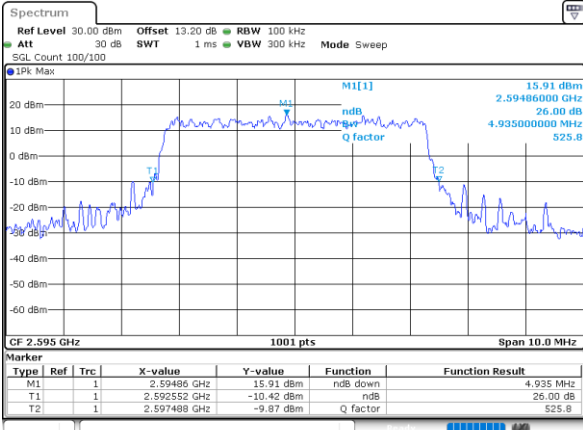
**26dB Bandwidth**

Mode	LTE Band 38 : 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	-	-	-	-	4.93	4.91	9.81	9.75	14.38	14.59	18.70	18.98
Mode	LTE Band 38 : 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	-	-	-	-	4.99	4.85	9.68	9.73	14.17	14.32	18.90	18.86



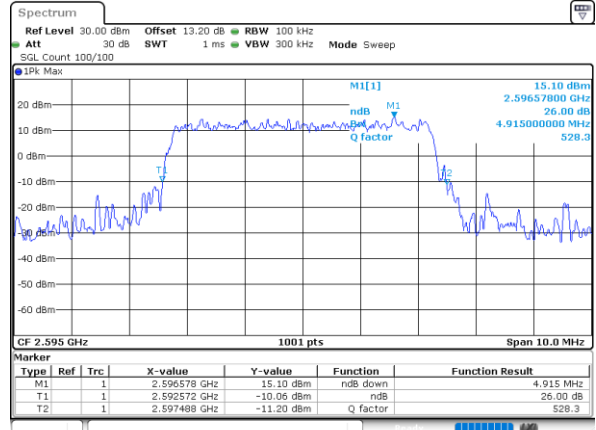
LTE Band 38

Middle Channel / 5MHz / QPSK



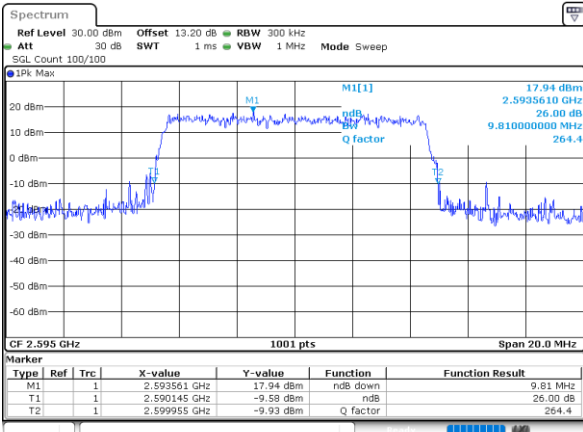
Date: 6.MAY.2024 15:06:02

Middle Channel / 5MHz / 16QAM



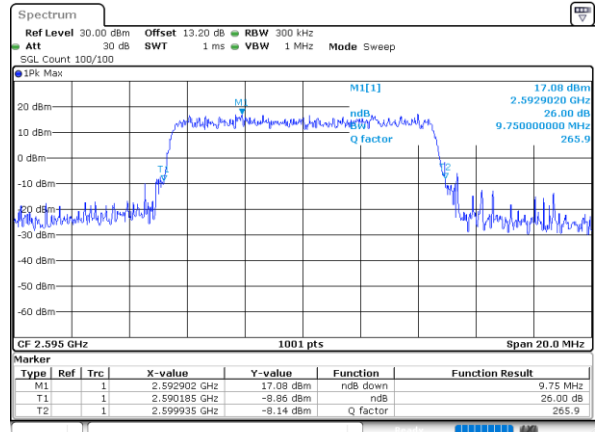
Date: 6.MAY.2024 15:06:35

Middle Channel / 10MHz / QPSK



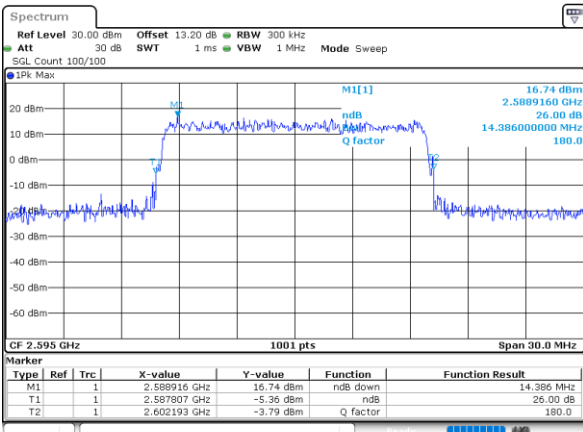
Date: 6.MAY.2024 15:08:20

Middle Channel / 10MHz / 16QAM



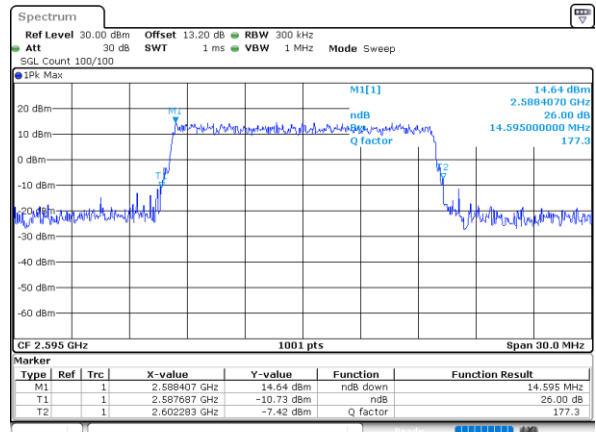
Date: 6.MAY.2024 15:08:51

Middle Channel / 15MHz / QPSK



Date: 6.MAY.2024 15:10:35

Middle Channel / 15MHz / 16QAM

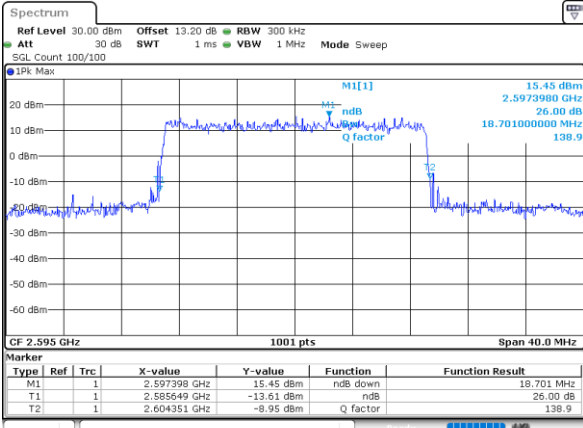


Date: 6.MAY.2024 15:11:08



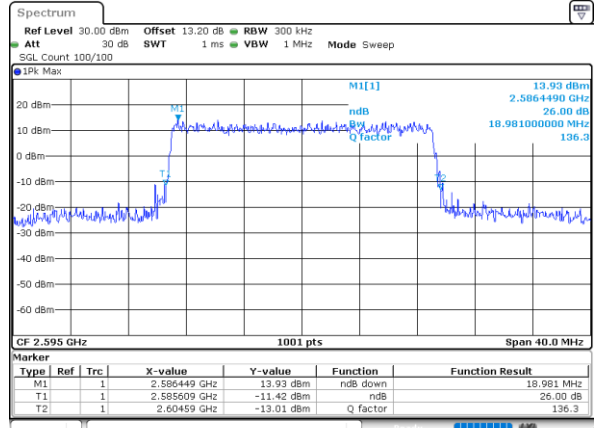
LTE Band 38

Middle Channel / 20MHz / QPSK



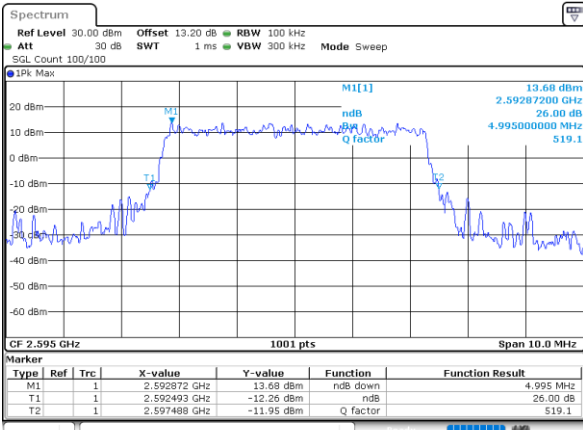
Date: 6.MAY.2024 15:12:50

Middle Channel / 20MHz / 16QAM



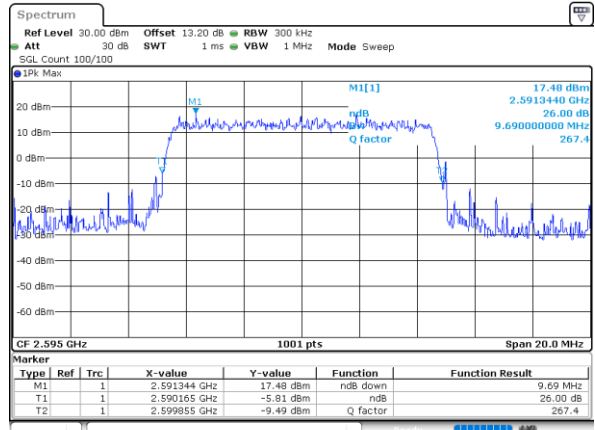
Date: 6.MAY.2024 15:13:23

Middle Channel / 5MHz / 64QAM



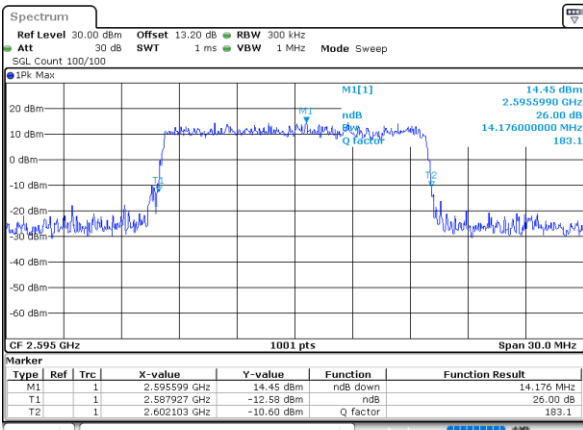
Date: 6.MAY.2024 15:14:32

Middle Channel / 10MHz / 64QAM



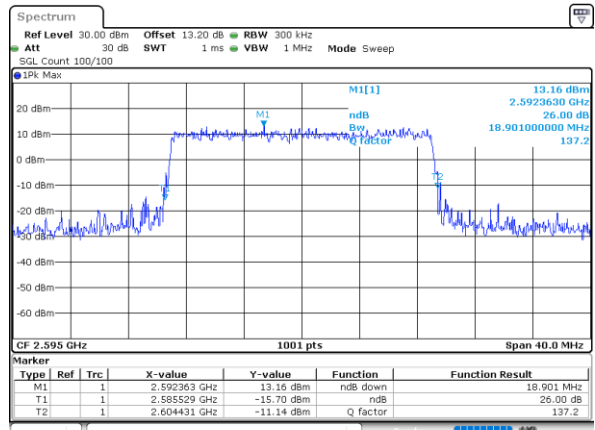
Date: 6.MAY.2024 15:15:41

Middle Channel / 15MHz / 64QAM



Date: 6.MAY.2024 15:16:50

Middle Channel / 20MHz / 64QAM

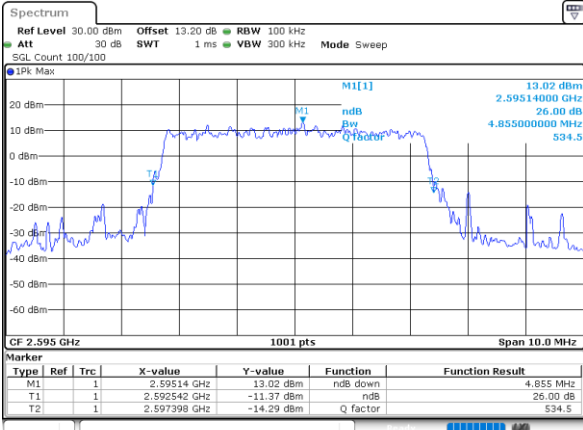


Date: 6.MAY.2024 15:18:00



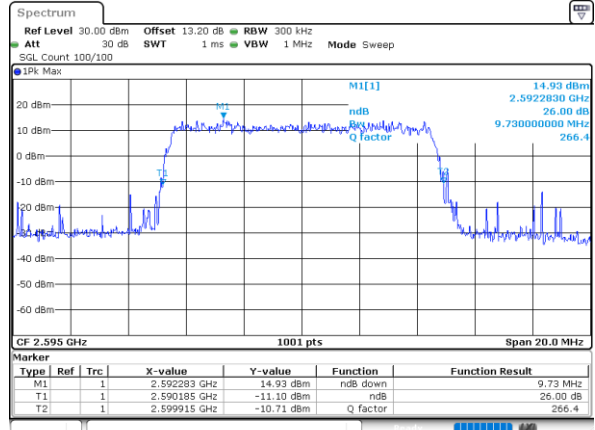
LTE Band 38

Middle Channel / 5MHz / 256QAM



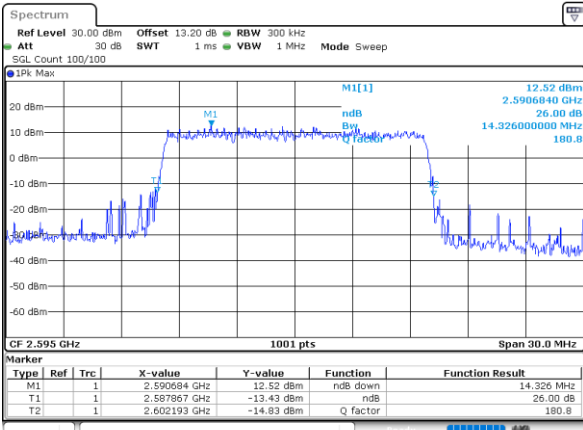
Date: 6.MAY.2024 15:20:52

Middle Channel / 10MHz / 256QAM



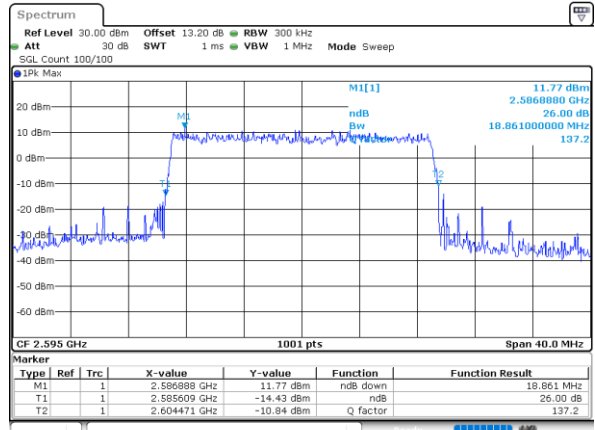
Date: 6.MAY.2024 15:21:59

Middle Channel / 15MHz / 256QAM



Date: 6.MAY.2024 15:23:09

Middle Channel / 20MHz / 256QAM



Date: 6.MAY.2024 15:24:19



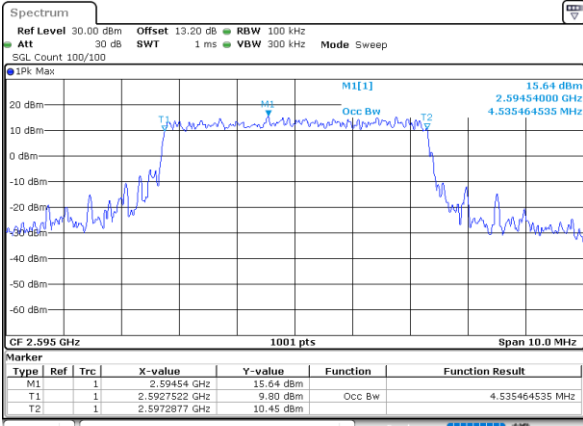
**Occupied Bandwidth**

Mode	LTE Band 38 : 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	-	-	-	-	4.53	4.49	9.05	9.05	13.48	13.48	17.90	17.90
Mode	LTE Band 38 : 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	-	-	-	-	4.50	4.49	9.05	9.07	13.48	13.51	17.90	17.98

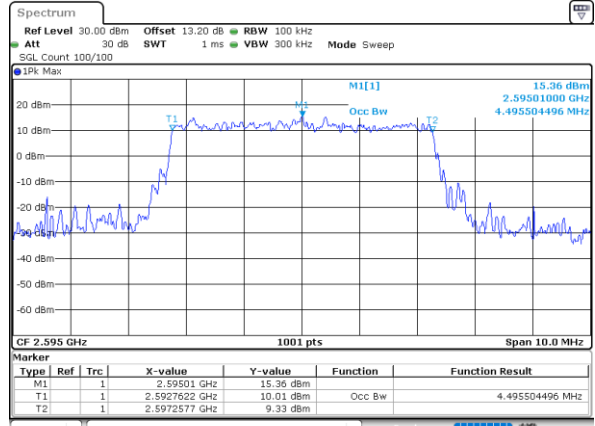


LTE Band 38

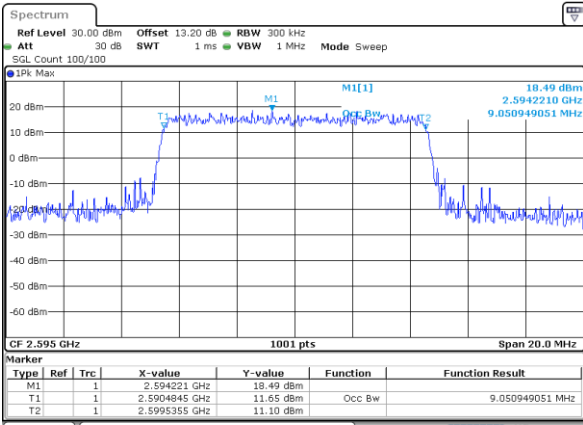
Middle Channel / 5MHz / QPSK



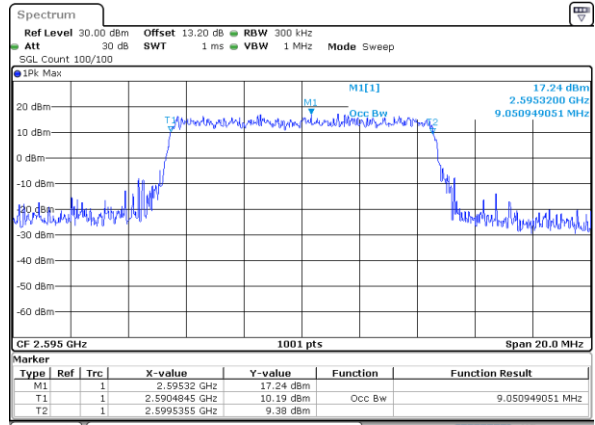
Middle Channel / 5MHz / 16QAM



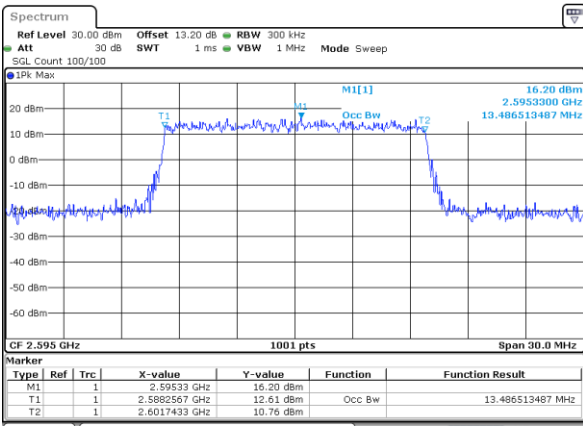
Middle Channel / 10MHz / QPSK



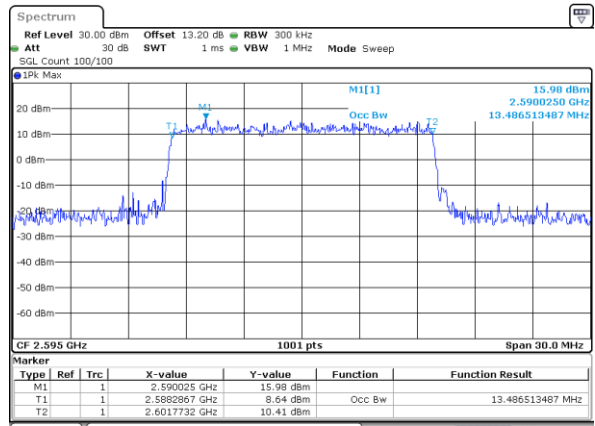
Middle Channel / 10MHz / 16QAM



Middle Channel / 15MHz / QPSK



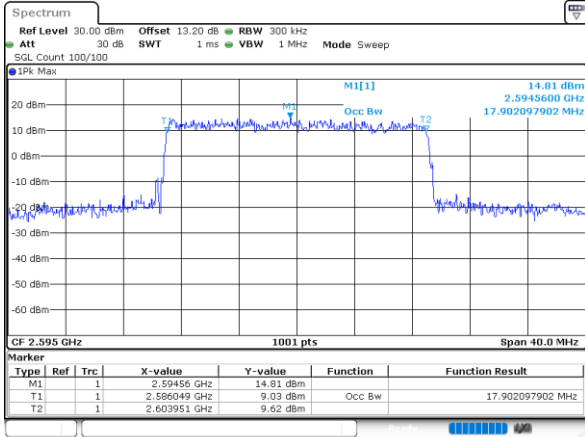
Middle Channel / 15MHz / 16QAM





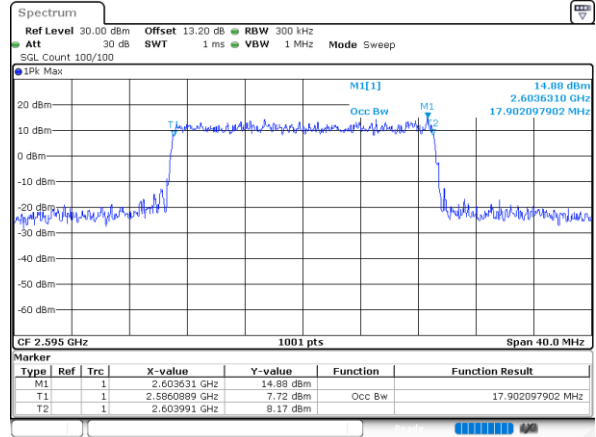
LTE Band 38

Middle Channel / 20MHz / QPSK



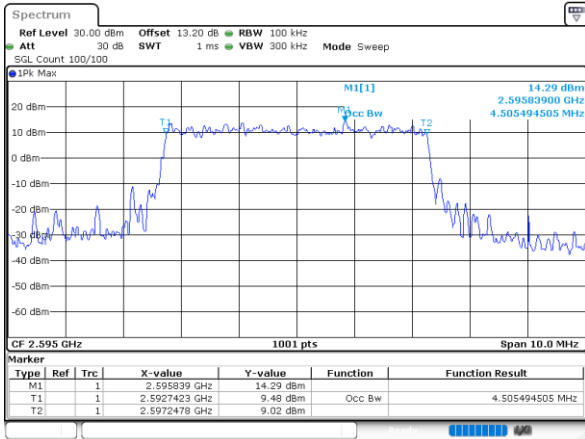
Date: 6.MAY.2024 15:11:42

Middle Channel / 20MHz / 16QAM



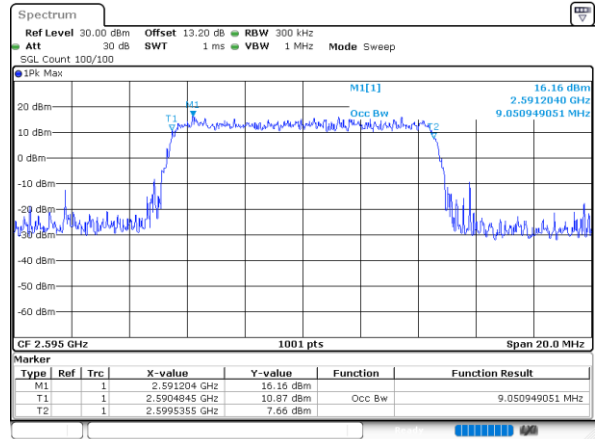
Date: 6.MAY.2024 15:12:18

Middle Channel / 5MHz / 64QAM



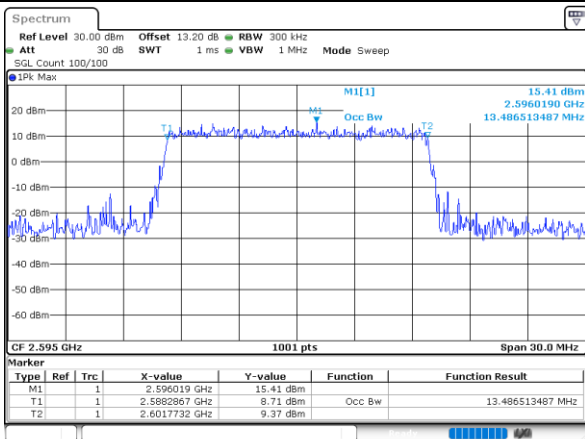
Date: 6.MAY.2024 15:13:59

Middle Channel / 10MHz / 64QAM



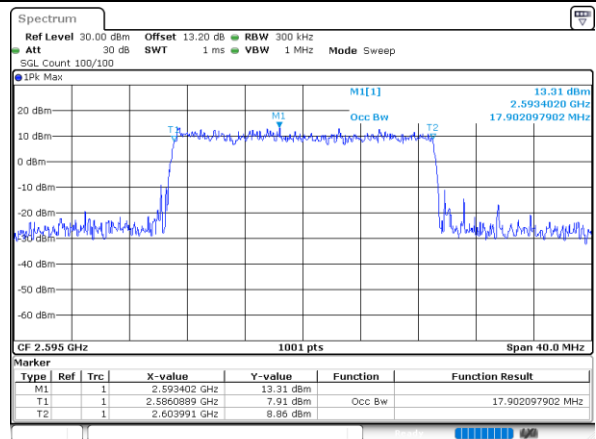
Date: 6.MAY.2024 15:15:06

Middle Channel / 15MHz / 64QAM



Date: 6.MAY.2024 15:16:18

Middle Channel / 20MHz / 64QAM

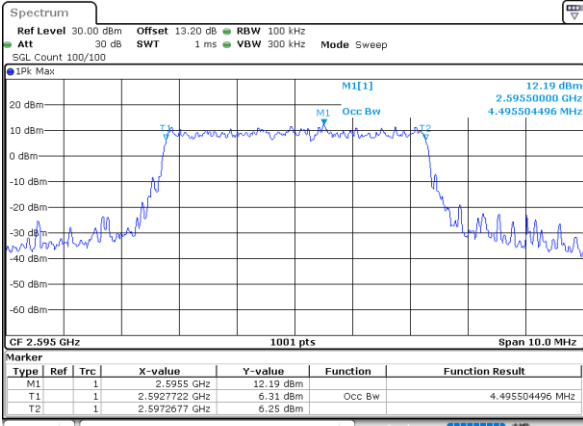


Date: 6.MAY.2024 15:17:27

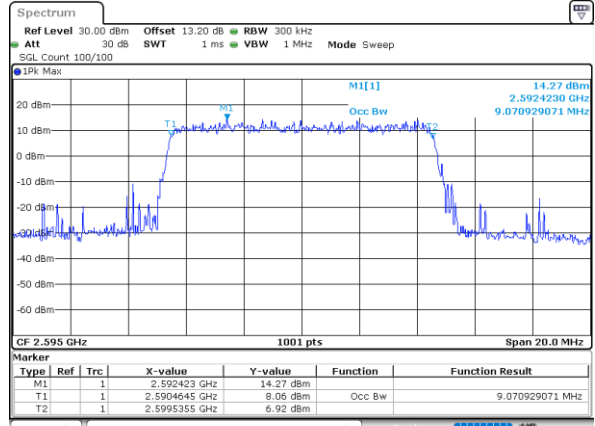


LTE Band 38

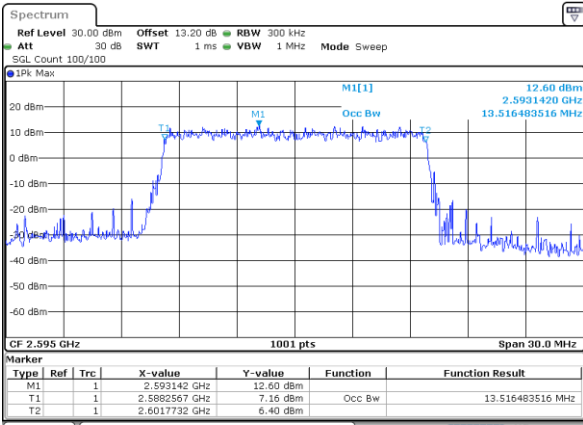
Middle Channel / 5MHz / 256QAM



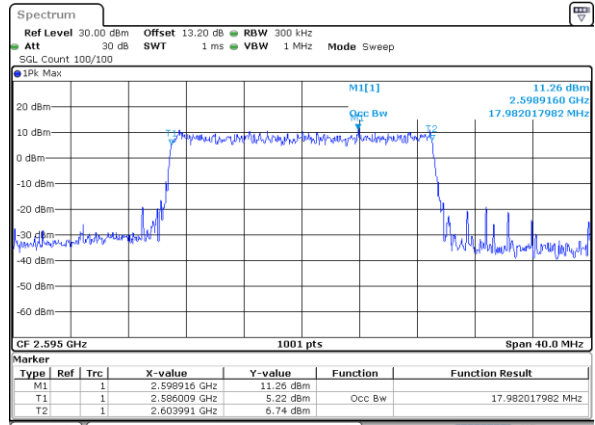
Middle Channel / 10MHz / 256QAM



Middle Channel / 15MHz / 256QAM



Middle Channel / 20MHz / 256QAM



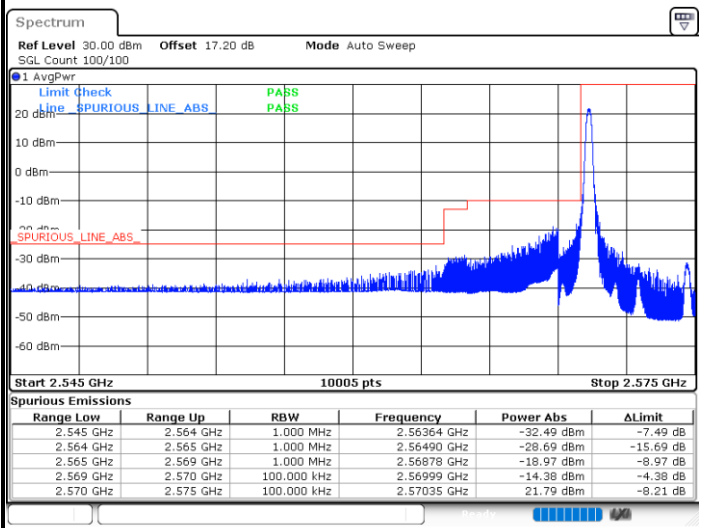




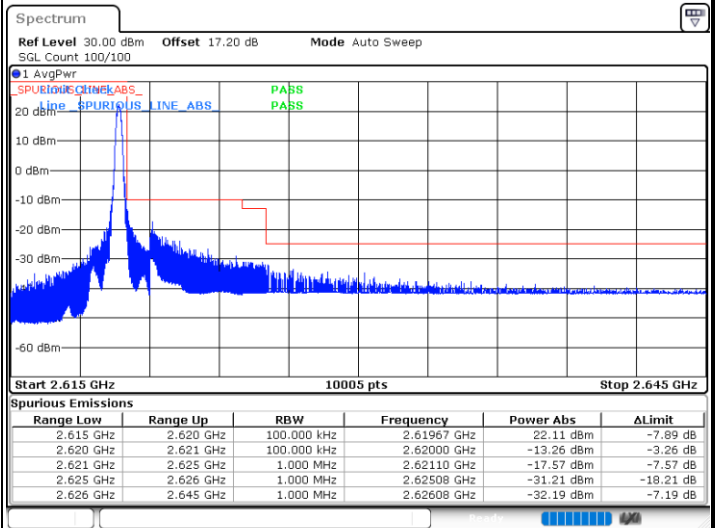
# Conducted Band Edge

## LTE Band 38 / 5MHz / QPSK

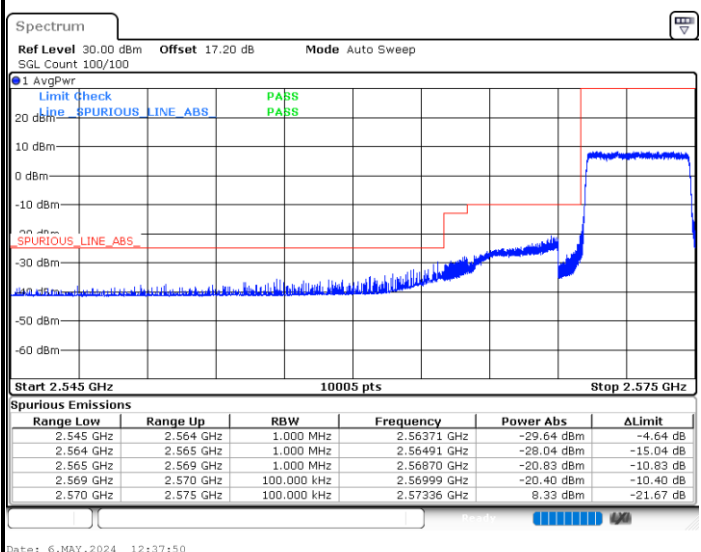
### Lowest Band Edge / 1 RB



### Highest Band Edge / 1 RB



### Lowest Band Edge / Full RB



### Highest Band Edge / Full RB

