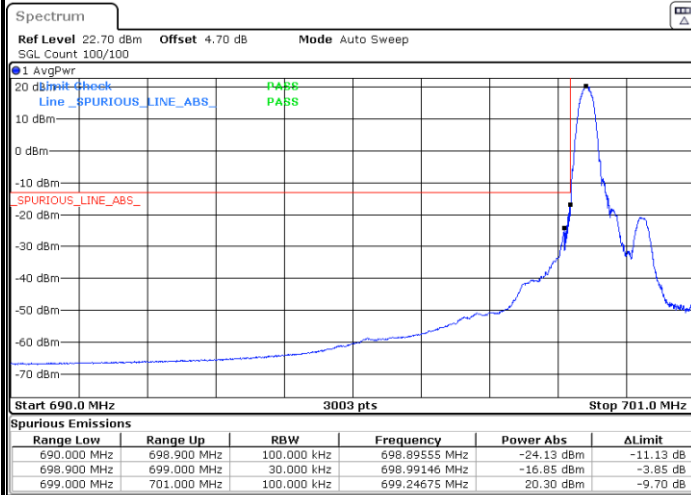




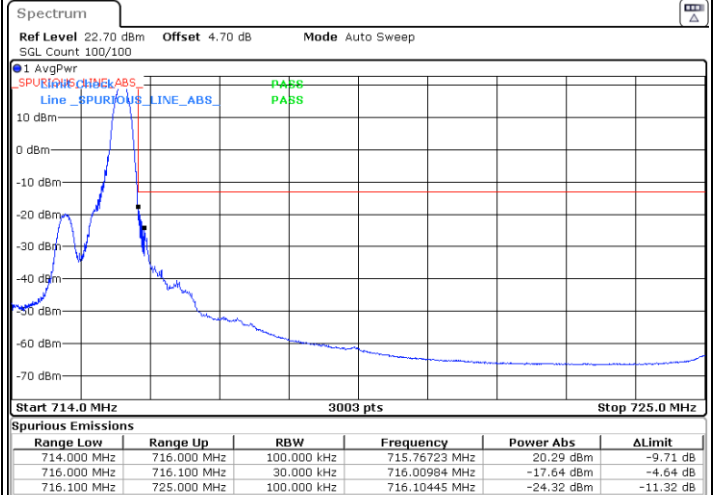
Conducted Band Edge

LTE Band 12 / 1.4MHz / QPSK

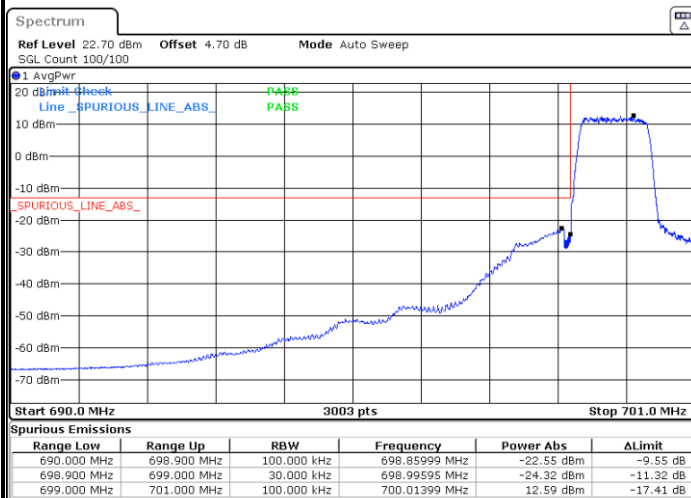
Lowest Band Edge / 1RB



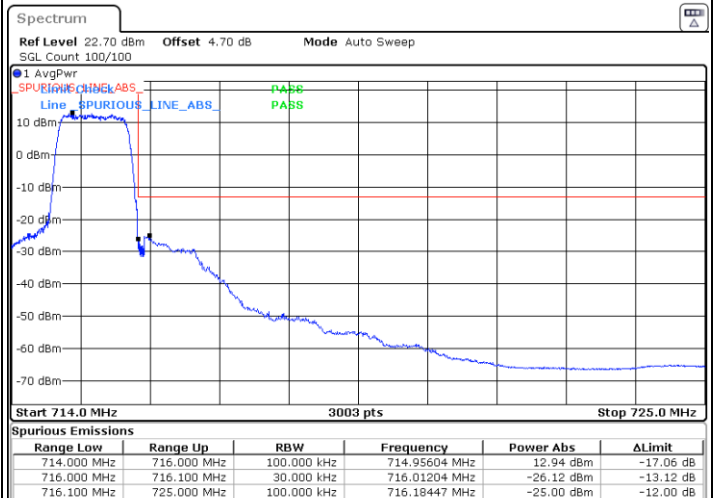
Highest Band Edge / 1RB



Lowest Band Edge / Full RB



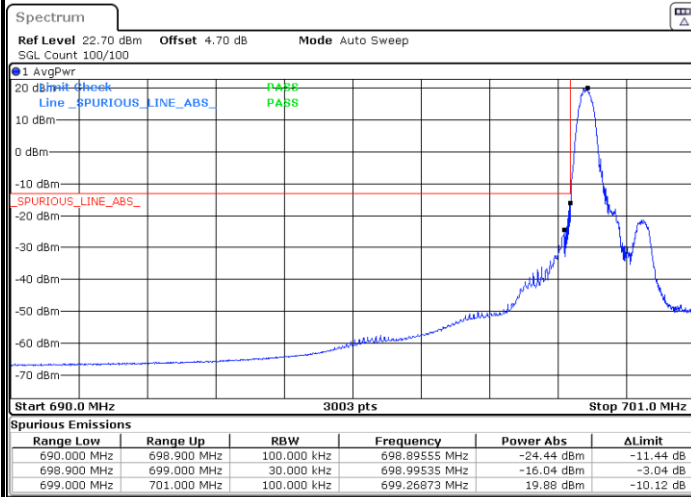
Highest Band Edge / Full RB





LTE Band 12 / 1.4MHz / 16QAM

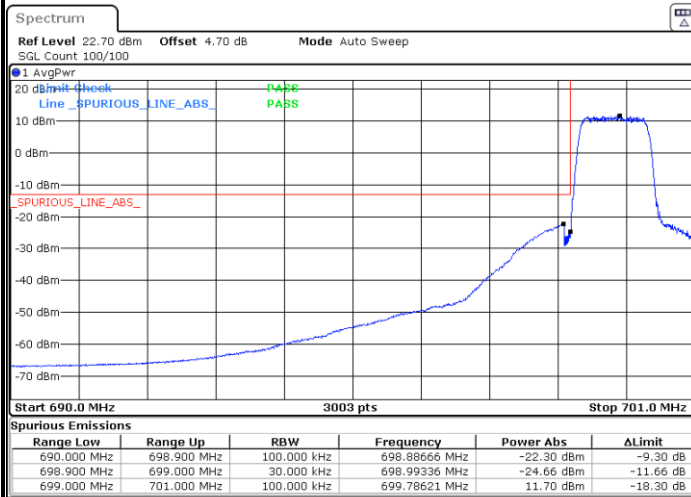
Lowest Band Edge / 1 RB



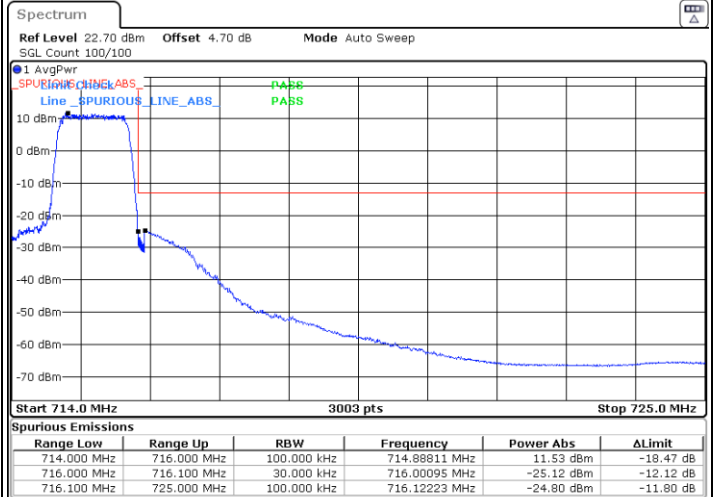
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



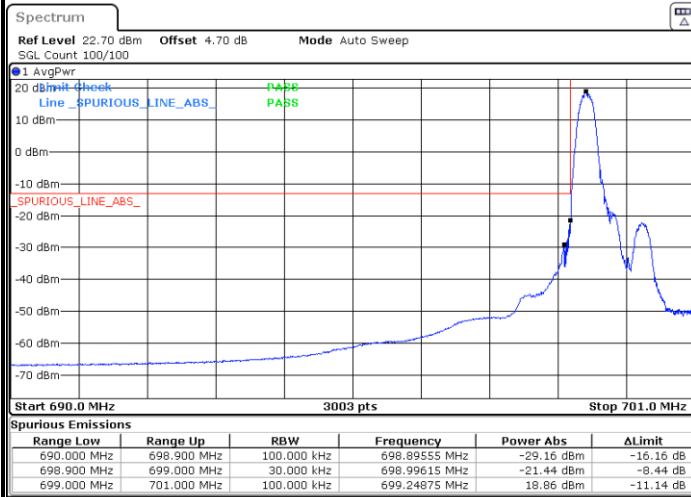
Highest Band Edge / Full RB





LTE Band 12 / 1.4MHz / 64QAM

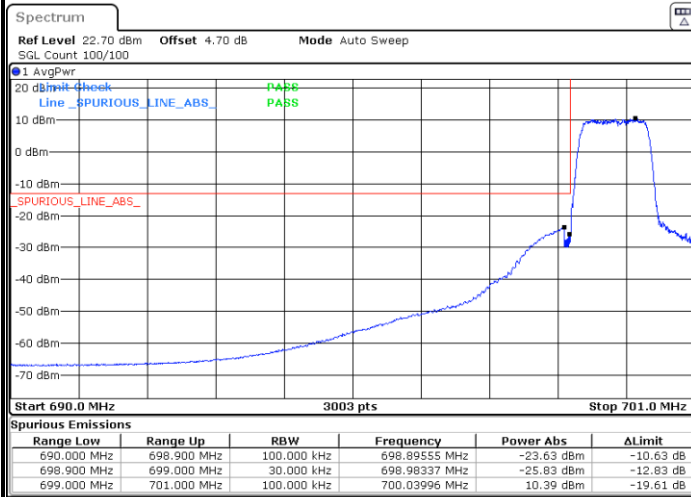
Lowest Band Edge / 1 RB



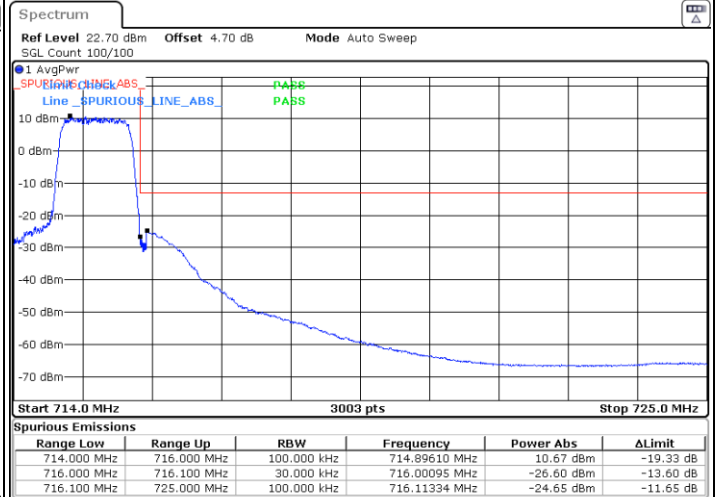
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



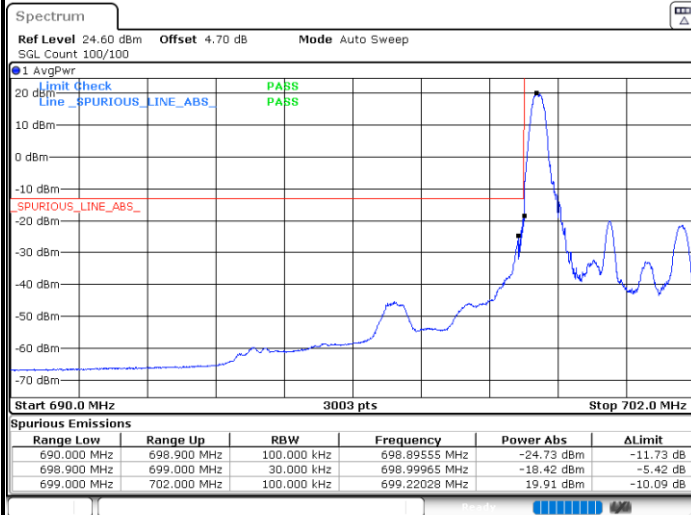
Highest Band Edge / Full RB



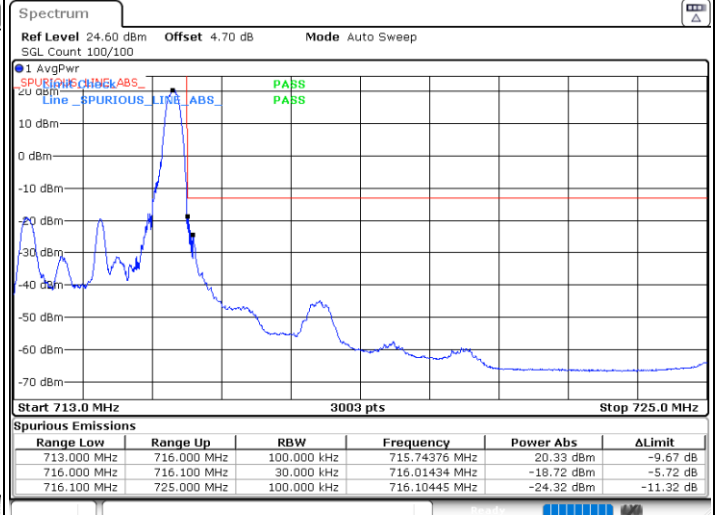


LTE Band 12 / 3MHz / QPSK

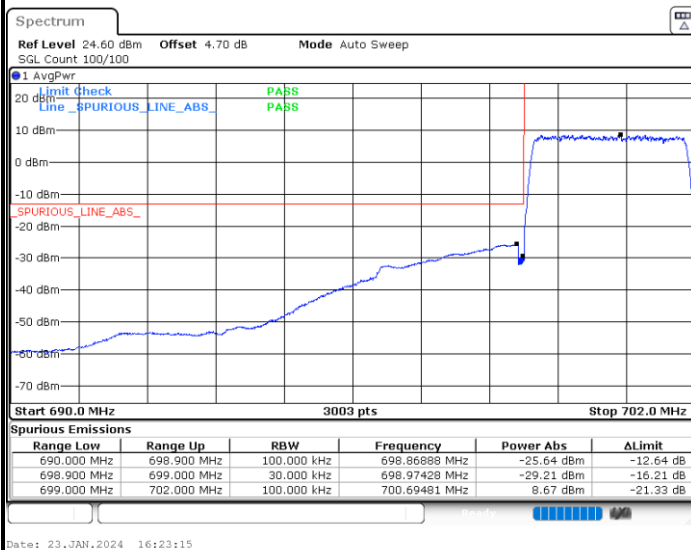
Lowest Band Edge / 1RB



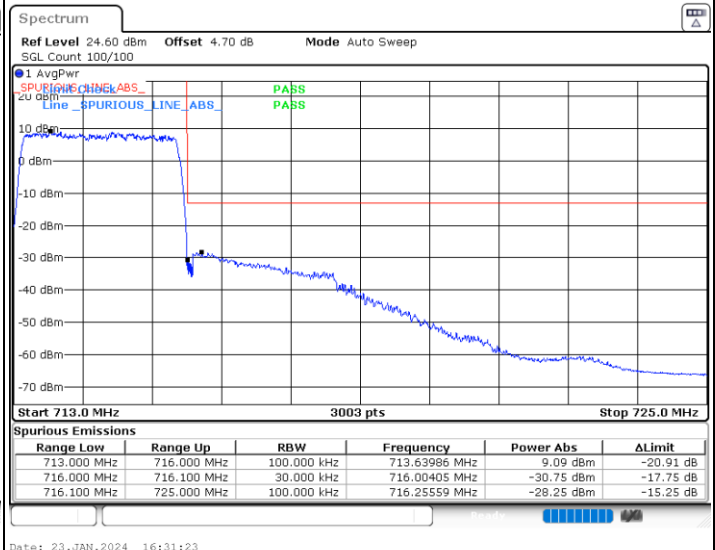
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



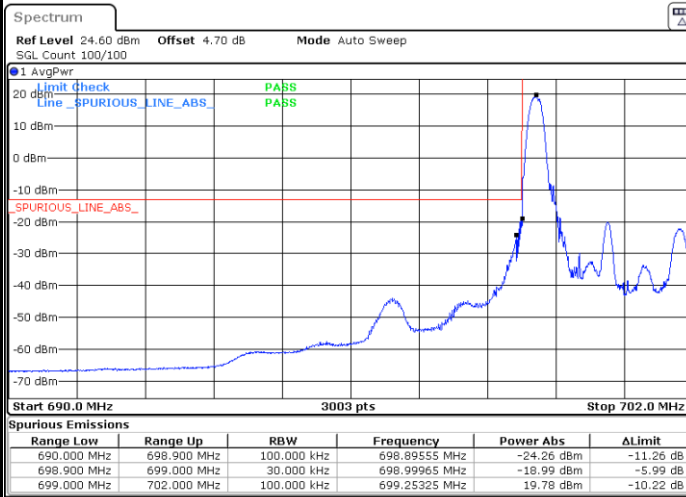
Highest Band Edge / Full RB





LTE Band 12 / 3MHz / 16QAM

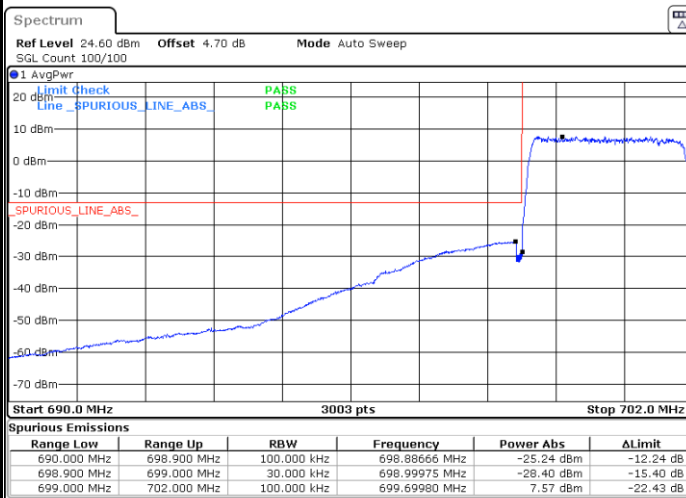
Lowest Band Edge / 1 RB



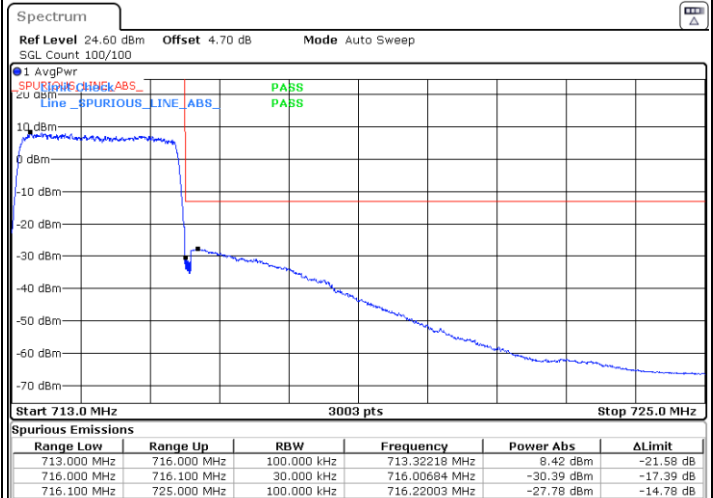
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB





LTE Band 12 / 3MHz / 64QAM

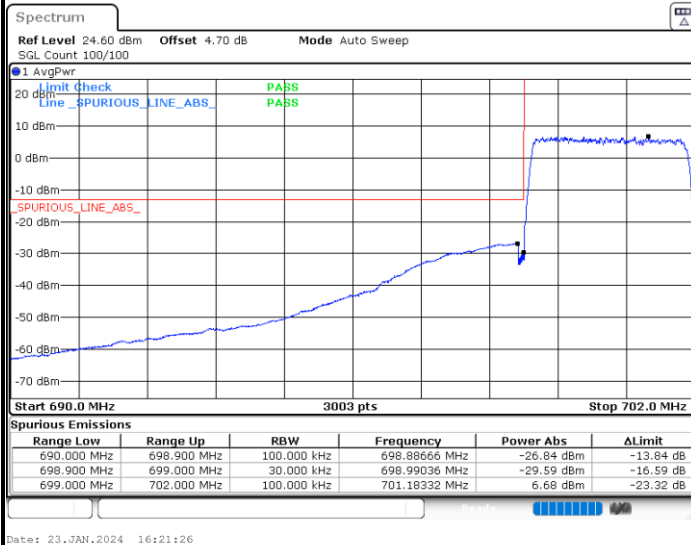
Lowest Band Edge / 1 RB



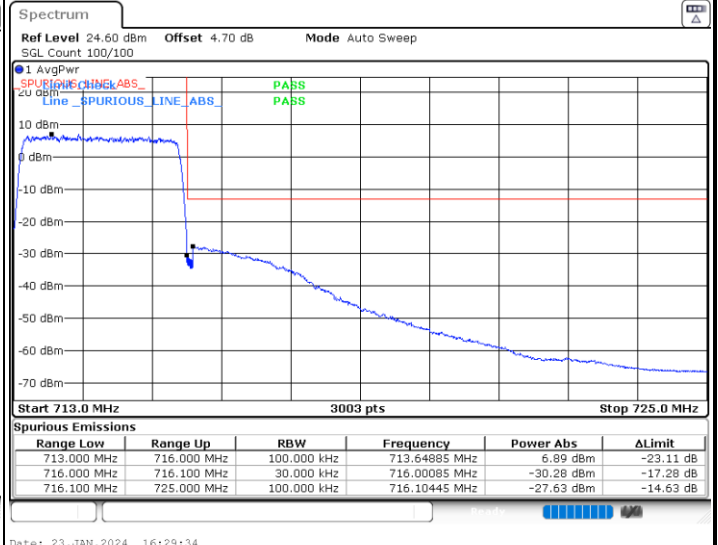
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



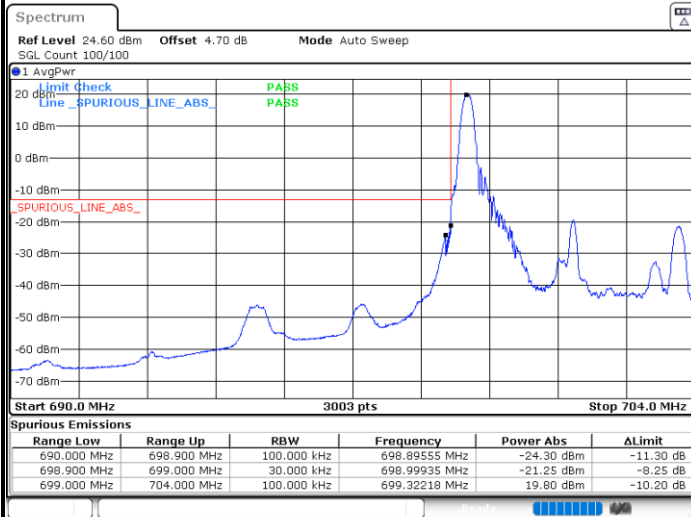
Highest Band Edge / Full RB



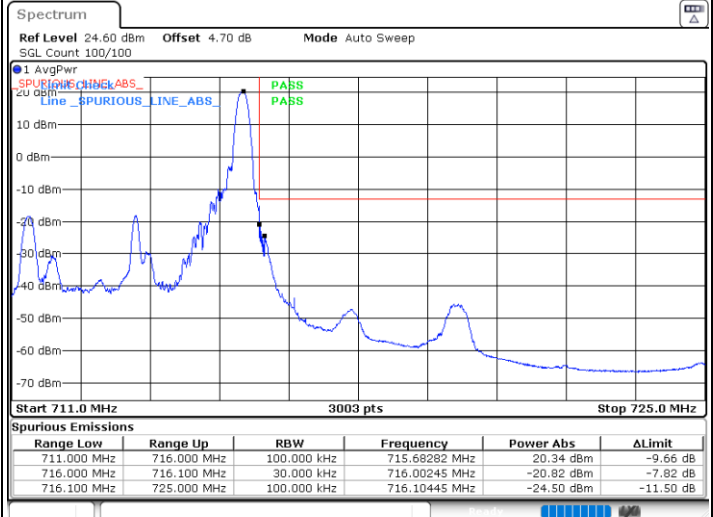


LTE Band 12 / 5MHz / QPSK

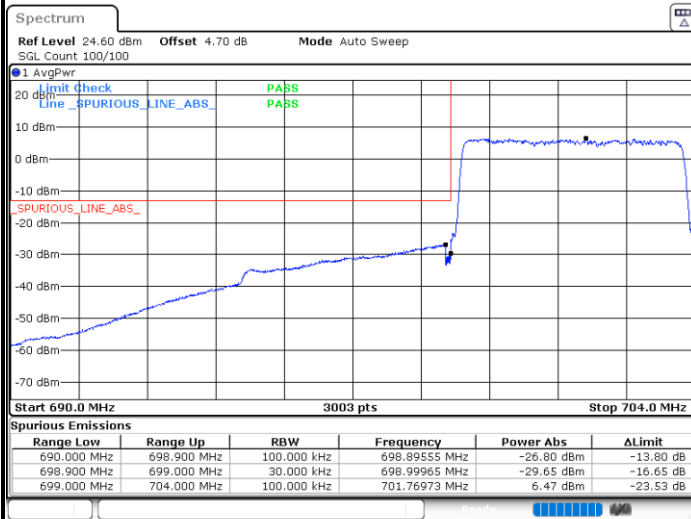
Lowest Band Edge / 1 RB



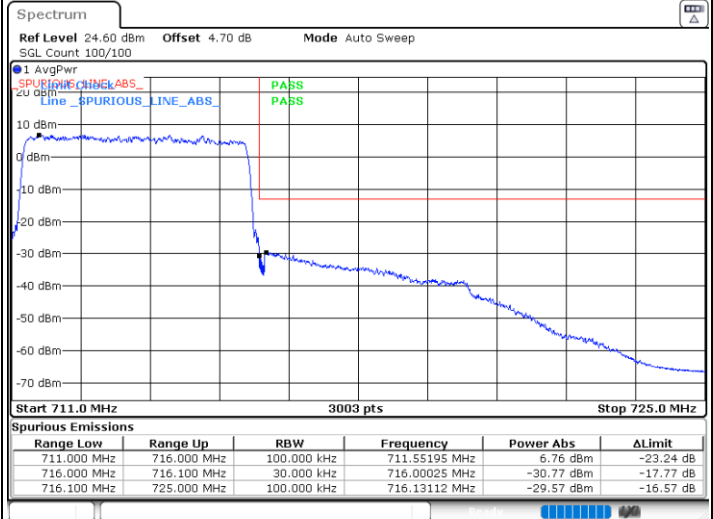
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



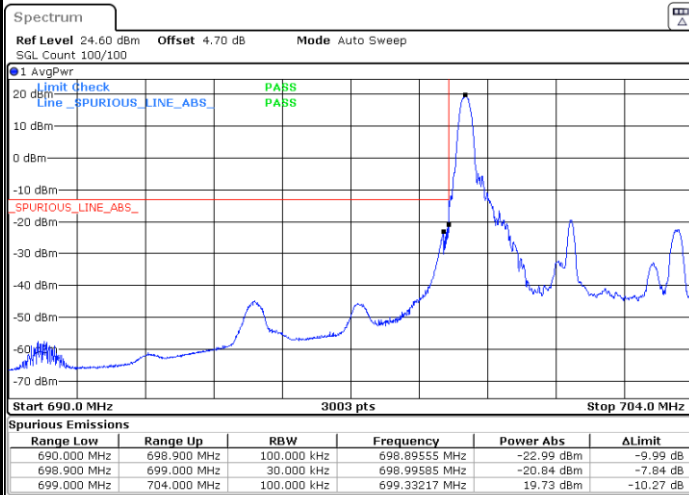
Highest Band Edge / Full RB



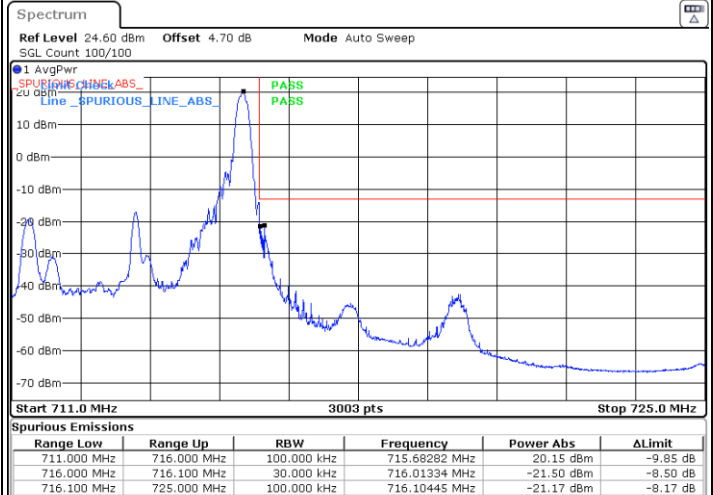


LTE Band 12 / 5MHz / 16QAM

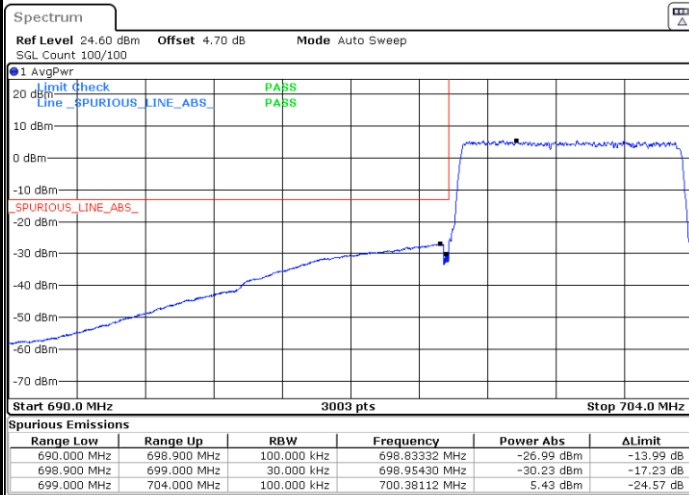
Lowest Band Edge / 1RB



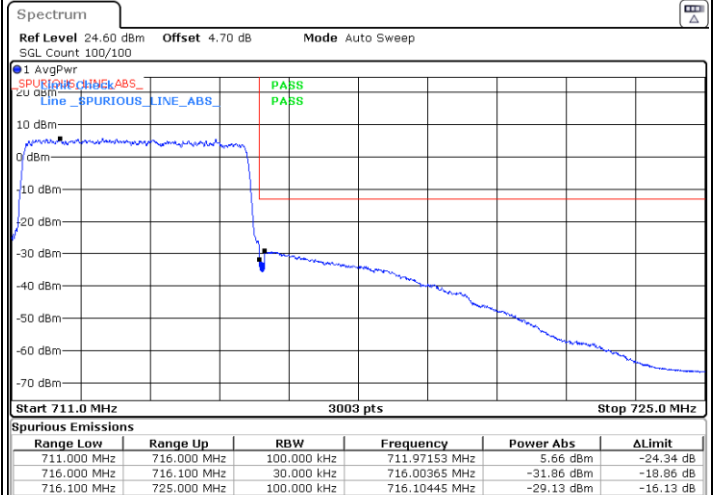
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



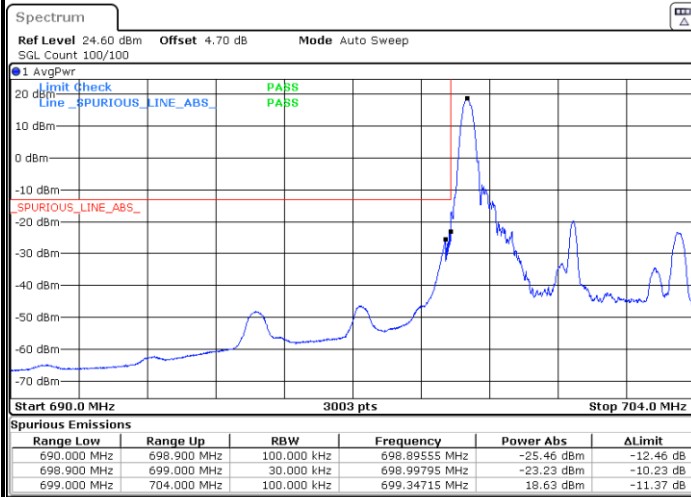
Highest Band Edge / Full RB



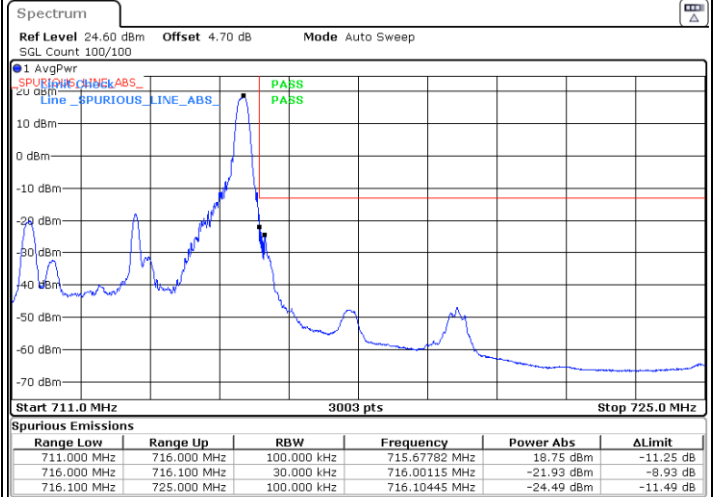


LTE Band 12 / 5MHz / 64QAM

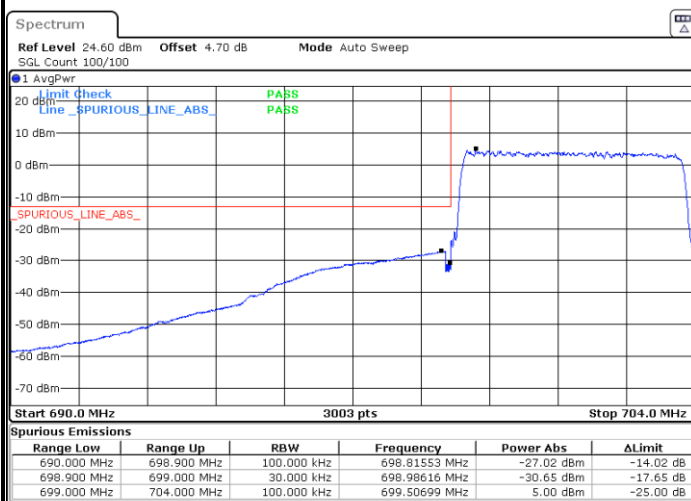
Lowest Band Edge / 1RB



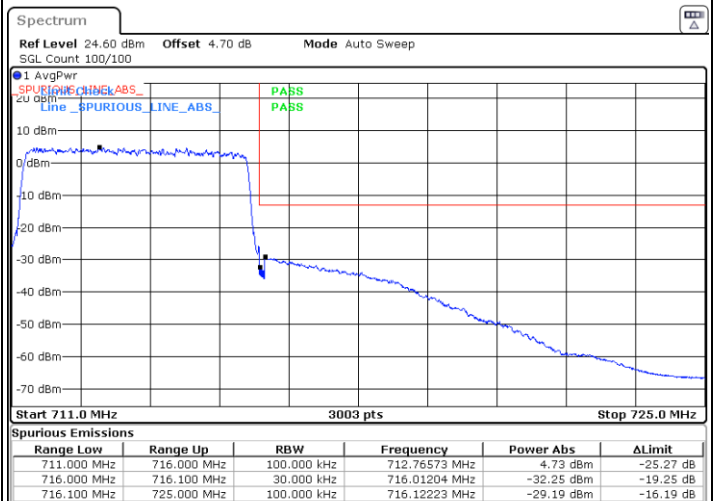
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



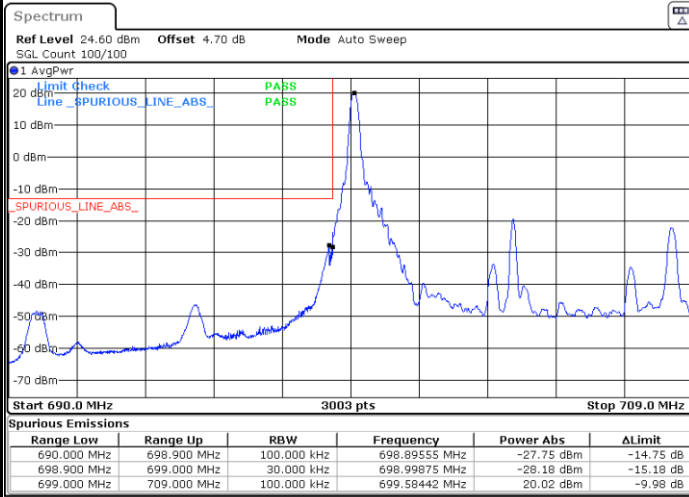
Highest Band Edge / Full RB





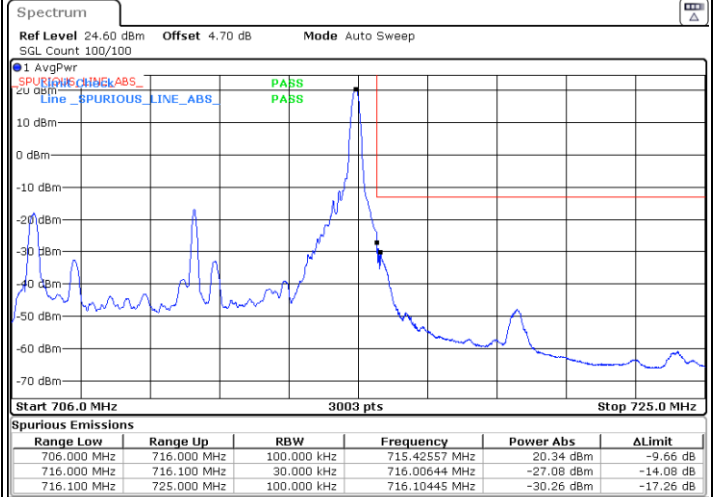
LTE Band 12 / 10MHz / QPSK

Lowest Band Edge / 1 RB



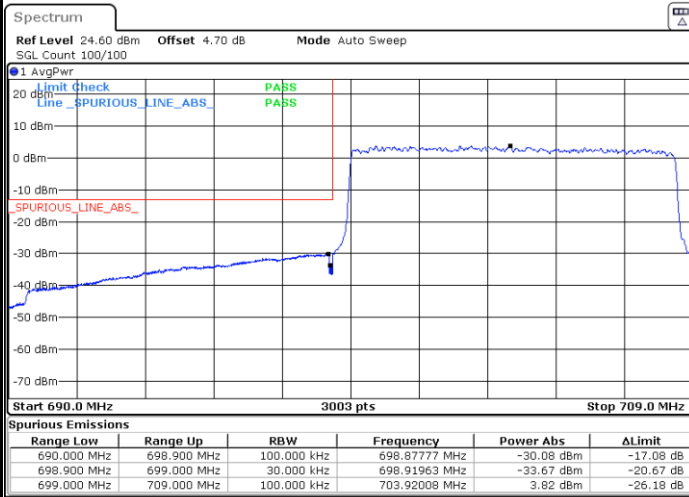
Date: 23.JAN.2024 16:48:37

Highest Band Edge / 1 RB



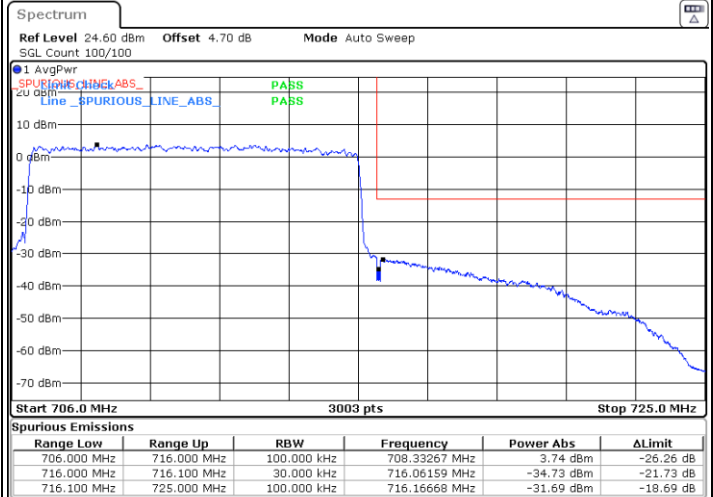
Date: 23.JAN.2024 16:56:45

Lowest Band Edge / Full RB



Date: 23.JAN.2024 16:53:11

Highest Band Edge / Full RB

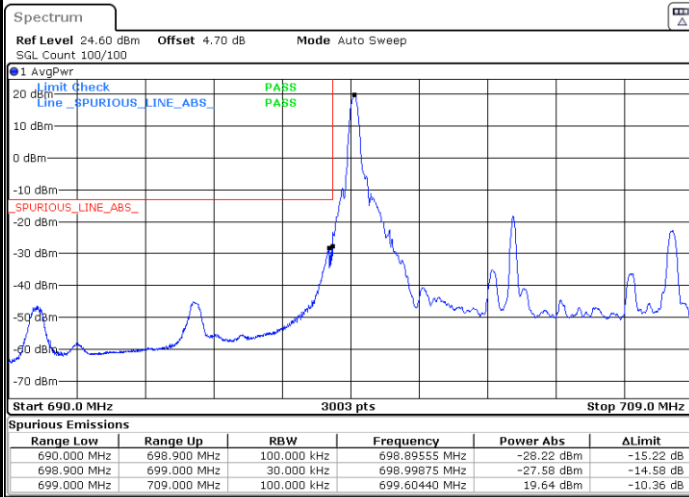


Date: 23.JAN.2024 17:01:20

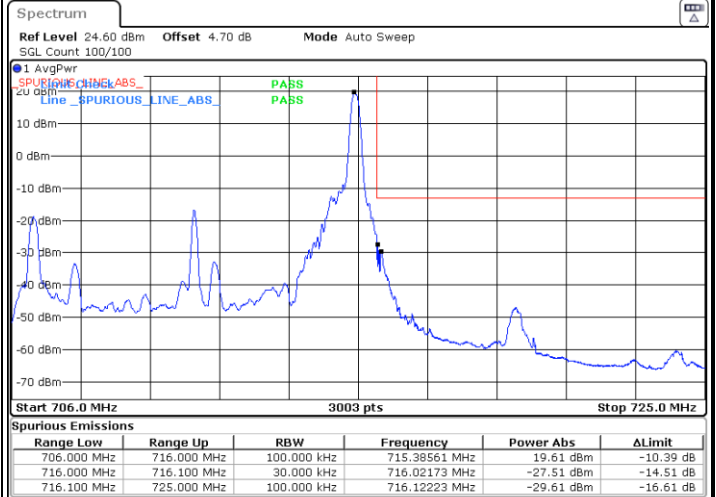


LTE Band 12 / 10MHz / 16QAM

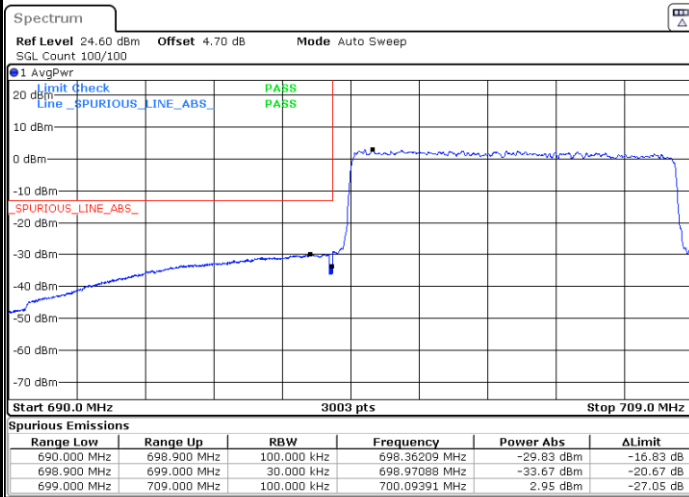
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



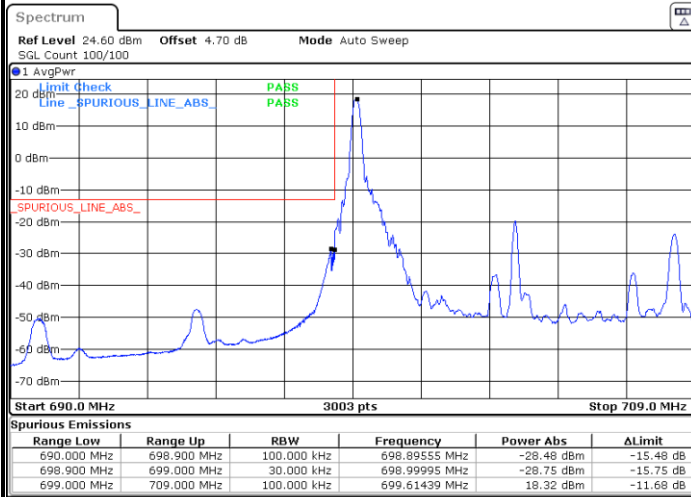
Highest Band Edge / Full RB



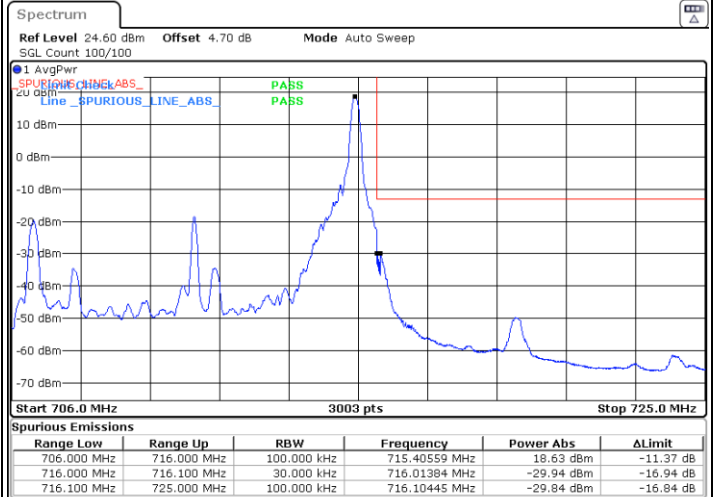


LTE Band 12 / 10MHz / 64QAM

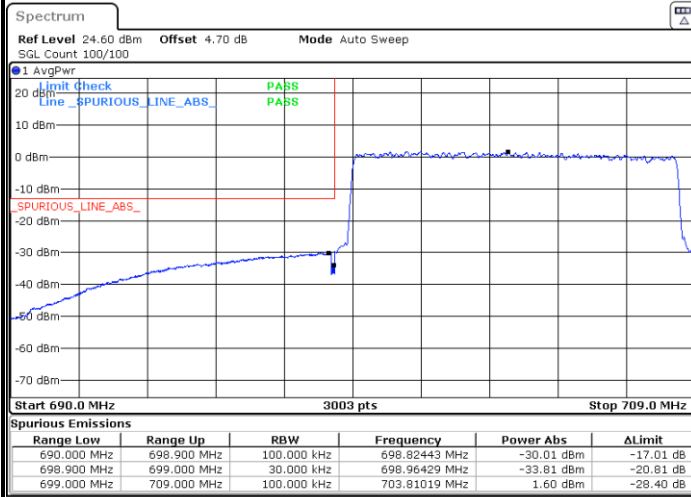
Lowest Band Edge / 1 RB



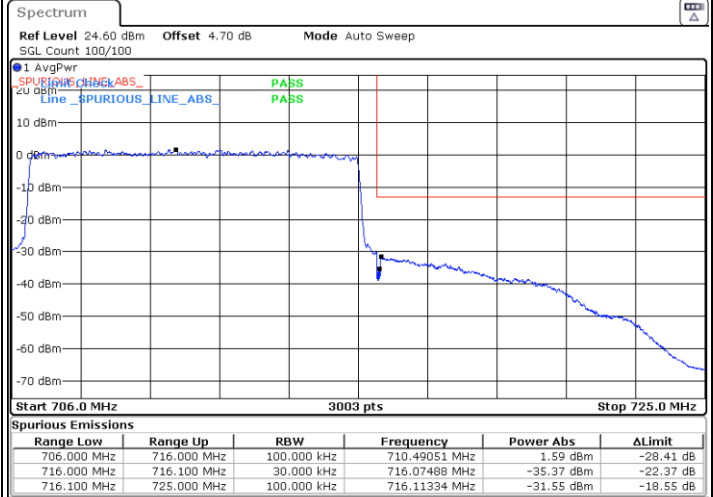
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

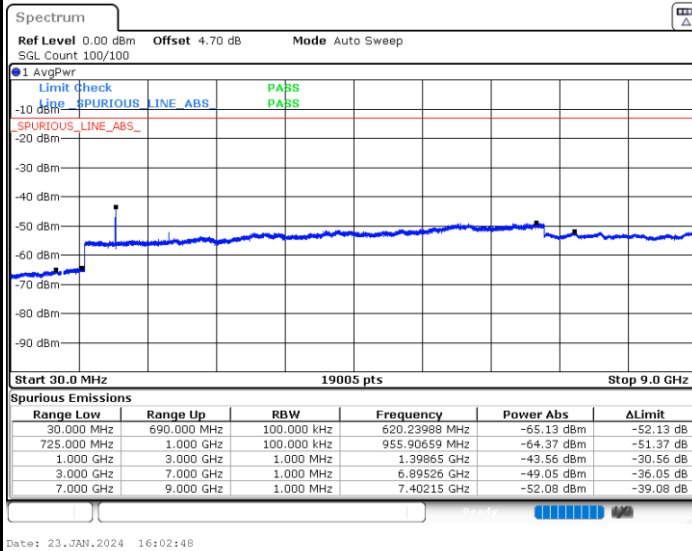




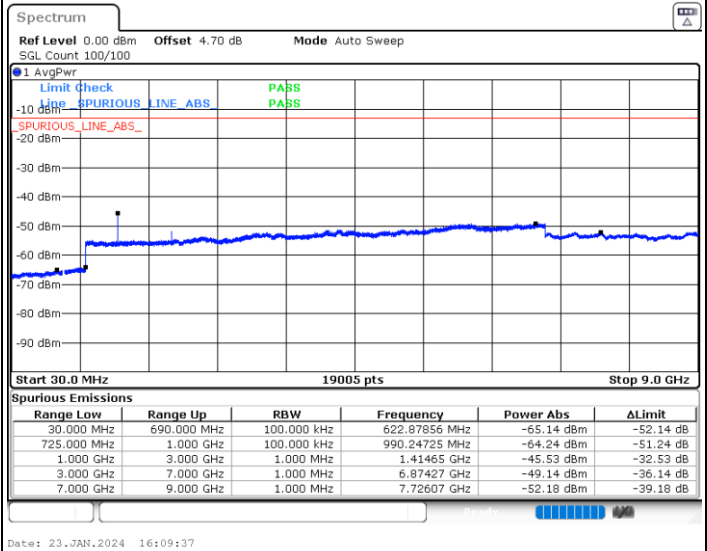
Conducted Spurious Emission

LTE Band 12 / 1.4MHz

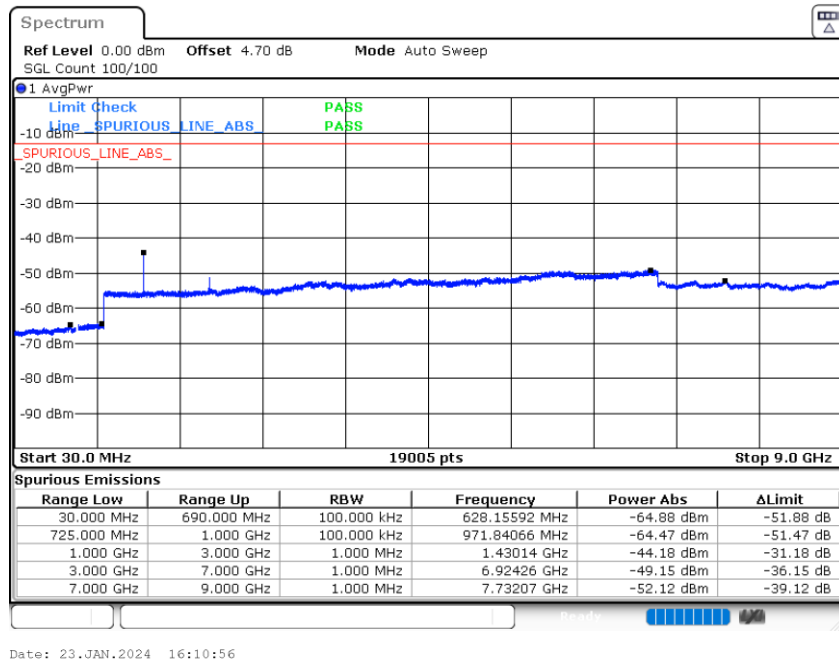
Lowest Channel / QPSK



Middle Channel / QPSK



Highest Channel / QPSK



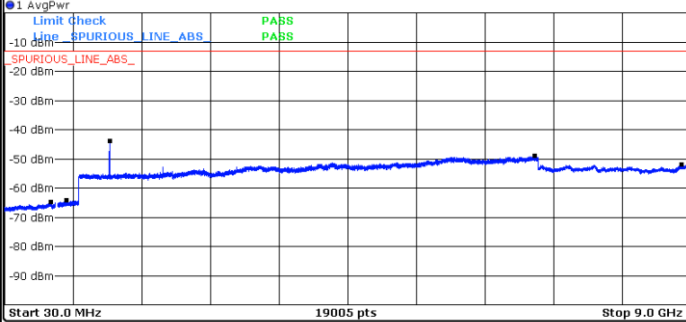


LTE Band 12 / 3MHz

Lowest Channel / QPSK

Middle Channel / QPSK

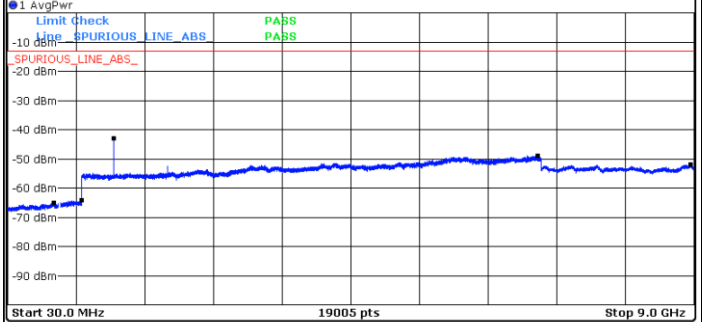
Spectrum

Ref Level 0.00 dBm Offset 4.70 dB Mode Auto Sweep
SQL Count 100/100

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	631.12444 MHz	-64.89 dBm	-51.89 dB
725.000 MHz	1.000 GHz	100.000 kHz	840.79670 MHz	-64.32 dBm	-51.32 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.39865 GHz	-44.03 dBm	-31.03 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.95826 GHz	-49.03 dBm	-36.03 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.87678 GHz	-52.07 dBm	-39.07 dB

Date: 23.JAN.2024 16:17:44

Spectrum

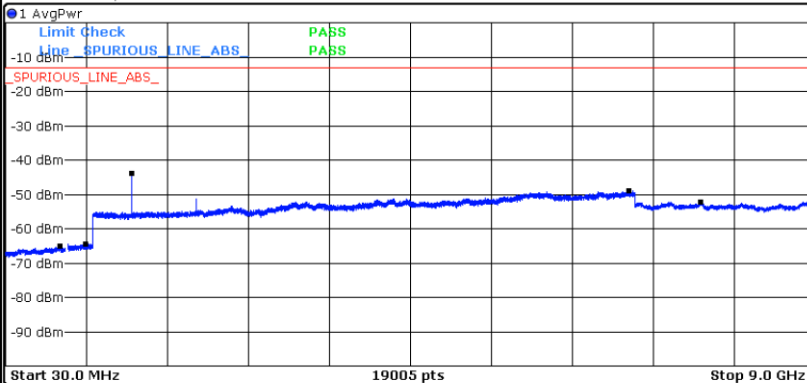
Ref Level 0.00 dBm Offset 4.70 dB Mode Auto Sweep
SQL Count 100/100

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	636.40180 MHz	-65.14 dBm	-52.14 dB
725.000 MHz	1.000 GHz	100.000 kHz	989.69780 MHz	-64.33 dBm	-51.33 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41265 GHz	-43.01 dBm	-30.01 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.95526 GHz	-48.99 dBm	-35.99 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.95126 GHz	-52.03 dBm	-39.03 dB

Date: 23.JAN.2024 16:24:35

Highest Channel / QPSK

Spectrum

Ref Level 0.00 dBm Offset 4.70 dB Mode Auto Sweep
SQL Count 100/100

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	628.48576 MHz	-65.16 dBm	-52.16 dB
725.000 MHz	1.000 GHz	100.000 kHz	912.50000 MHz	-64.37 dBm	-51.37 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.42664 GHz	-43.75 dBm	-30.75 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.93026 GHz	-49.09 dBm	-36.09 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.73007 GHz	-52.17 dBm	-39.17 dB

Date: 23.JAN.2024 16:25:54

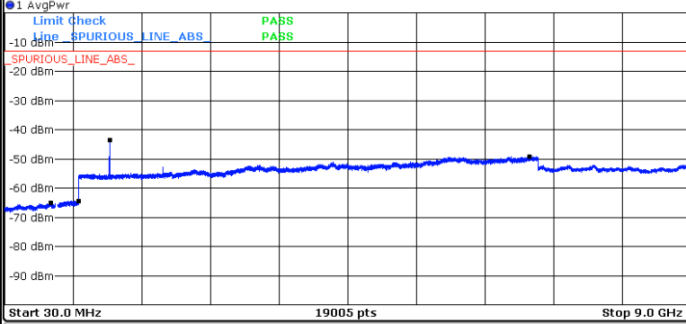


LTE Band 12 / 5MHz

Lowest Channel / QPSK

Middle Channel / QPSK

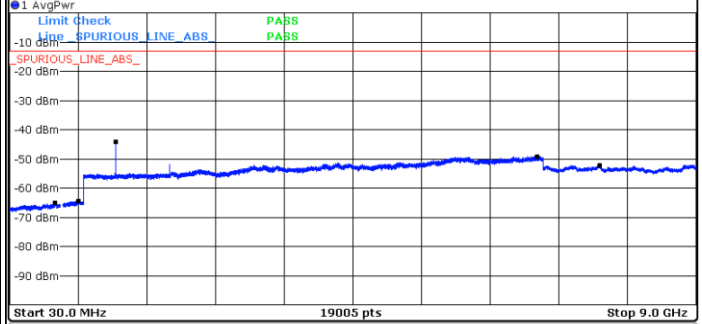
Spectrum

Ref Level 0.00 dBm Offset 4.70 dB Mode Auto Sweep
SQL Count 100/100

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	627.16642 MHz	-65.21 dBm	-52.21 dB
725.000 MHz	1.000 GHz	100.000 kHz	997.93956 MHz	-64.43 dBm	-51.43 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.39915 GHz	-43.70 dBm	-30.70 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.88276 GHz	-49.16 dBm	-36.16 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.96726 GHz	-52.03 dBm	-39.03 dB

Date: 23.JAN.2024 16:32:43

Spectrum

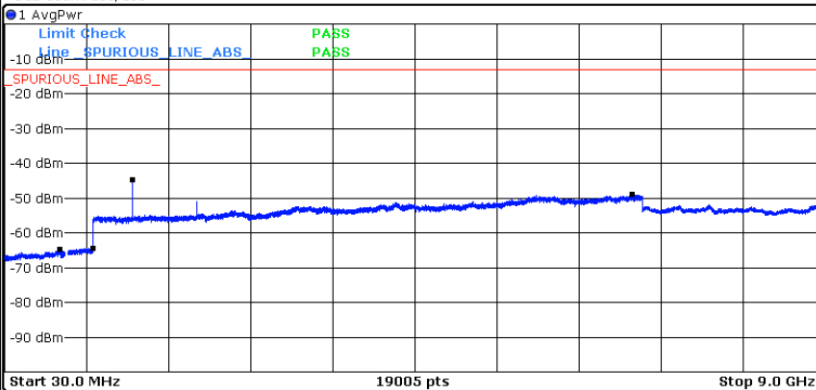
Ref Level 0.00 dBm Offset 4.70 dB Mode Auto Sweep
SQL Count 100/100

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	618.92054 MHz	-65.05 dBm	-52.05 dB
725.000 MHz	1.000 GHz	100.000 kHz	928.70879 MHz	-64.43 dBm	-51.43 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41115 GHz	-44.24 dBm	-31.24 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.92176 GHz	-49.15 dBm	-36.15 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.73657 GHz	-52.15 dBm	-39.15 dB

Date: 23.JAN.2024 16:39:32

Highest Channel / QPSK

Spectrum

Ref Level 0.00 dBm Offset 4.70 dB Mode Auto Sweep
SQL Count 100/100

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	628.48576 MHz	-64.90 dBm	-51.90 dB
725.000 MHz	1.000 GHz	100.000 kHz	995.46703 MHz	-64.39 dBm	-51.39 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.42314 GHz	-44.71 dBm	-31.71 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.88726 GHz	-49.03 dBm	-36.03 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.95576 GHz	-52.05 dBm	-39.05 dB

Date: 23.JAN.2024 16:40:51

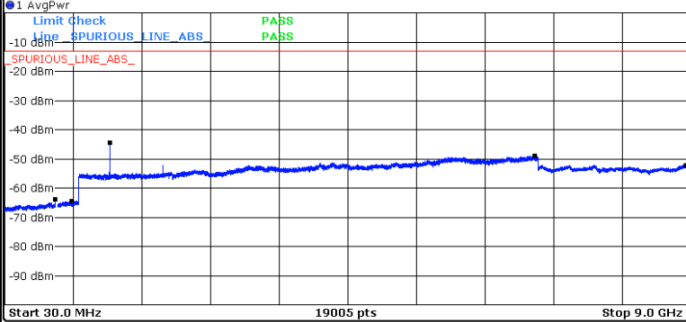


LTE Band 12 / 10MHz

Lowest Channel / QPSK

Middle Channel / QPSK

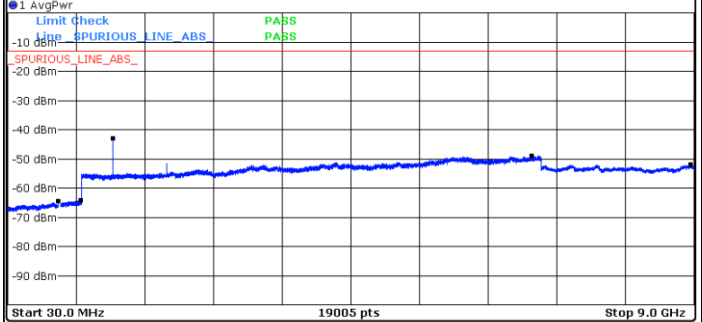
Spectrum

Ref Level 0.00 dBm Offset 4.70 dB Mode Auto Sweep
SQL Count 100/100

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	689.50525 MHz	-63.98 dBm	-50.98 dB
725.000 MHz	1.000 GHz	100.000 kHz	905.08242 MHz	-64.45 dBm	-51.45 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.39965 GHz	-44.40 dBm	-31.40 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.95226 GHz	-49.01 dBm	-36.01 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.92777 GHz	-52.16 dBm	-39.16 dB

Date: 23.JAN.2024 16:47:42

Spectrum

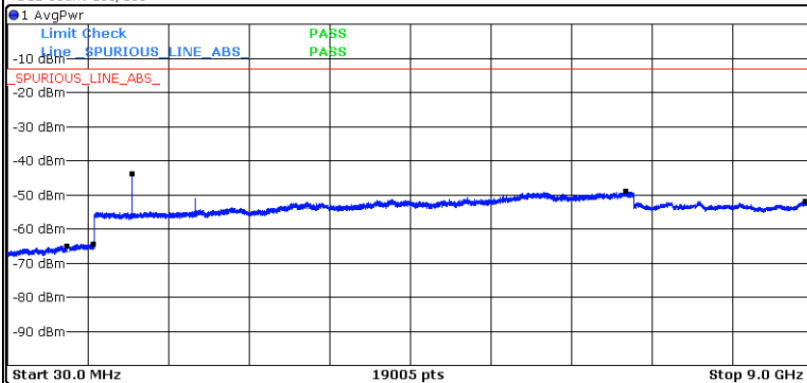
Ref Level 0.00 dBm Offset 4.70 dB Mode Auto Sweep
SQL Count 100/100

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	689.83508 MHz	-64.40 dBm	-51.40 dB
725.000 MHz	1.000 GHz	100.000 kHz	988.04945 MHz	-64.25 dBm	-51.25 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.40665 GHz	-43.11 dBm	-30.11 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.87627 GHz	-48.81 dBm	-35.81 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.95076 GHz	-52.03 dBm	-39.03 dB

Date: 23.JAN.2024 16:54:30

Highest Channel / QPSK

Spectrum

Ref Level 0.00 dBm Offset 4.70 dB Mode Auto Sweep
SQL Count 100/100

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	689.17541 MHz	-64.97 dBm	-51.97 dB
725.000 MHz	1.000 GHz	100.000 kHz	980.90659 MHz	-64.46 dBm	-51.46 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41365 GHz	-43.98 dBm	-30.98 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.91376 GHz	-49.00 dBm	-36.00 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.90427 GHz	-51.95 dBm	-38.95 dB

Date: 23.JAN.2024 16:55:50

Frequency Stability

Test Conditions		LTE Band 12 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0029	PASS
40	Normal Voltage	0.0011	
30	Normal Voltage	0.0000	
20(Ref.)	Normal Voltage	0.0012	
10	Normal Voltage	0.0004	
0	Normal Voltage	0.0046	
-10	Normal Voltage	0.0033	
-20	Normal Voltage	0.0024	
-30	Normal Voltage	0.0026	
20	Maximum Voltage	0.0008	
20	Normal Voltage	0.0007	
20	Battery End Point	0.0013	

Note:

1. Normal Voltage =3.91 V. ; Battery End Point (BEP) =3.40 V. ; Maximum Voltage =4.48 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



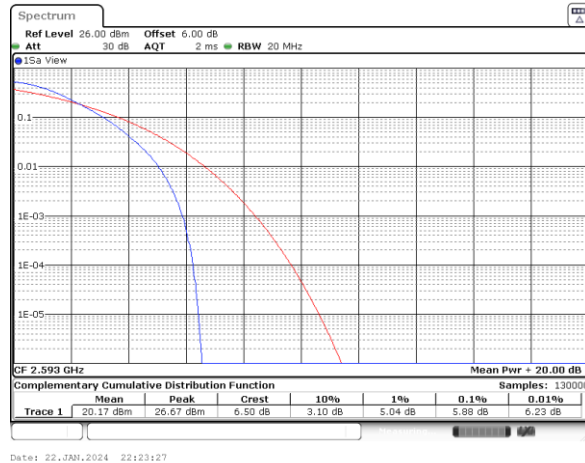
LTE Band 41

Peak-to-Average Ratio

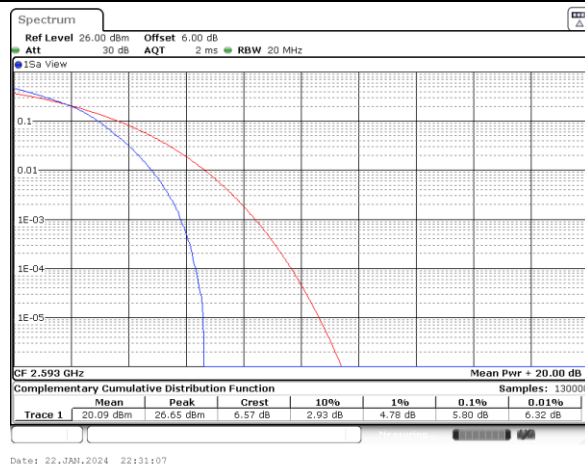
Mode	LTE Band 41 / 20MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	5.88	5.80	6.23	PASS

LTE Band 41 / 20MHz

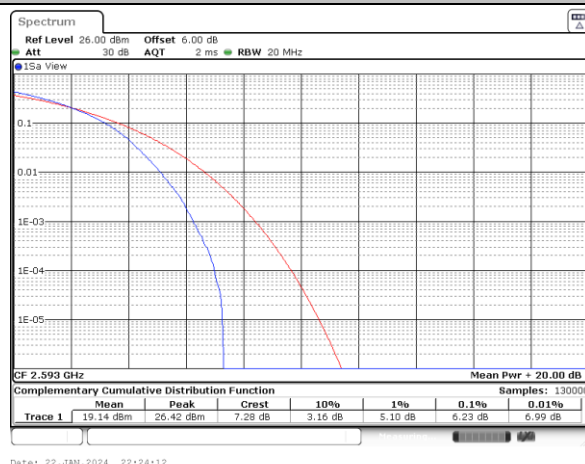
Middle Channel / Full RB / QPSK



Middle Channel / Full RB / 16QAM

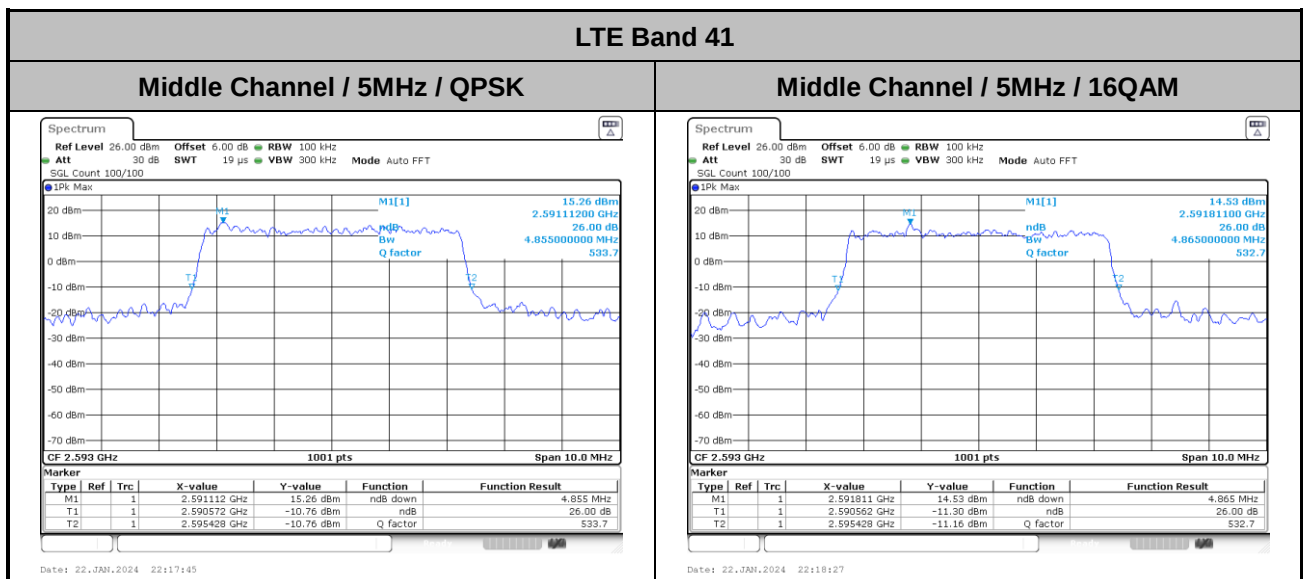


Middle Channel / Full RB / 64QAM



**26dB Bandwidth**

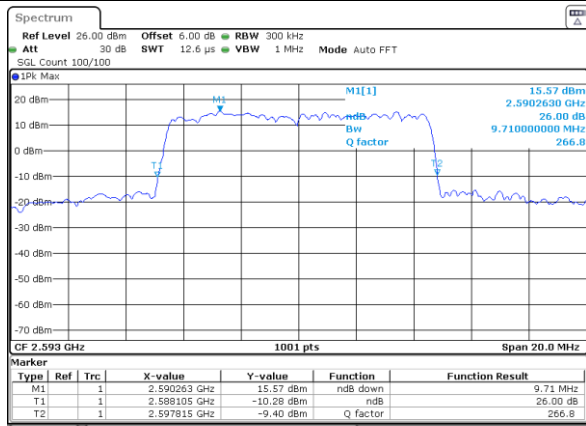
Mode	LTE Band 41 : 26dB BW(MHz)	
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	4.86	4.87
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.71	9.71
BW	15MHz	
Mod.	QPSK	16QAM
Middle CH	14.36	14.39
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	19.06	18.78





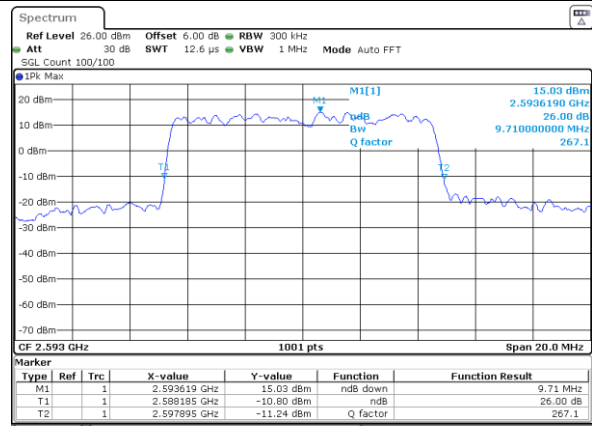
LTE Band 41

Middle Channel / 10MHz / QPSK



Date: 22.JAN.2024 22:19:31

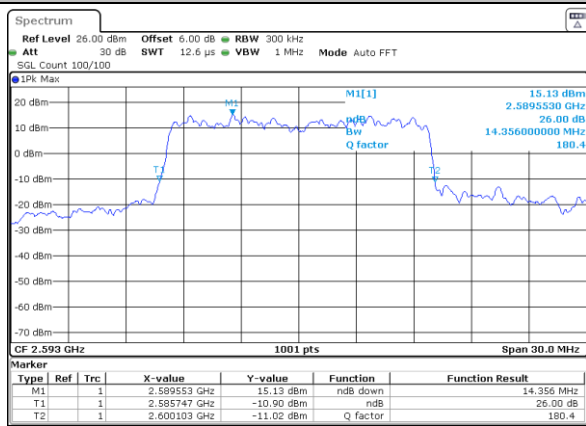
Middle Channel / 10MHz / 16QAM



Date: 22.JAN.2024 22:19:53

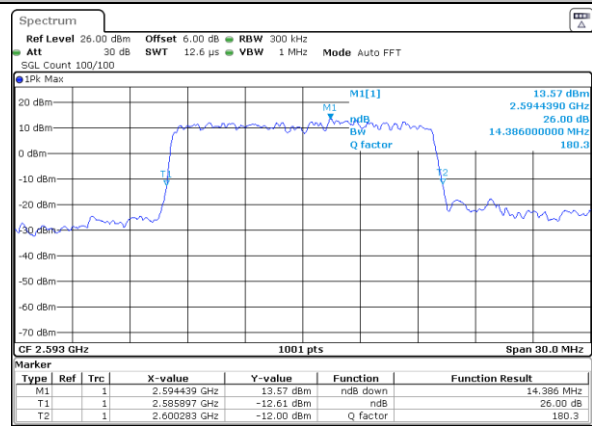
LTE Band 41

Middle Channel / 15MHz / QPSK



Date: 22.JAN.2024 22:20:57

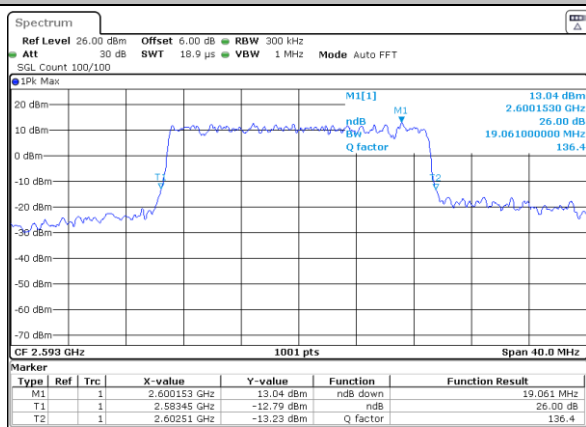
Middle Channel / 15MHz / 16QAM



Date: 22.JAN.2024 22:21:18

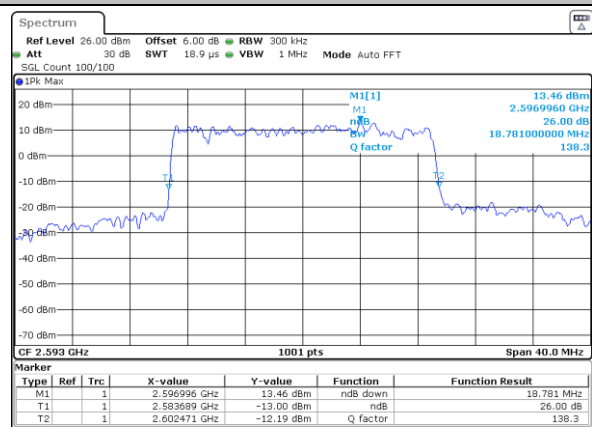
LTE Band 41

Middle Channel / 20MHz / QPSK



Date: 22.JAN.2024 22:22:22

Middle Channel / 20MHz / 16QAM

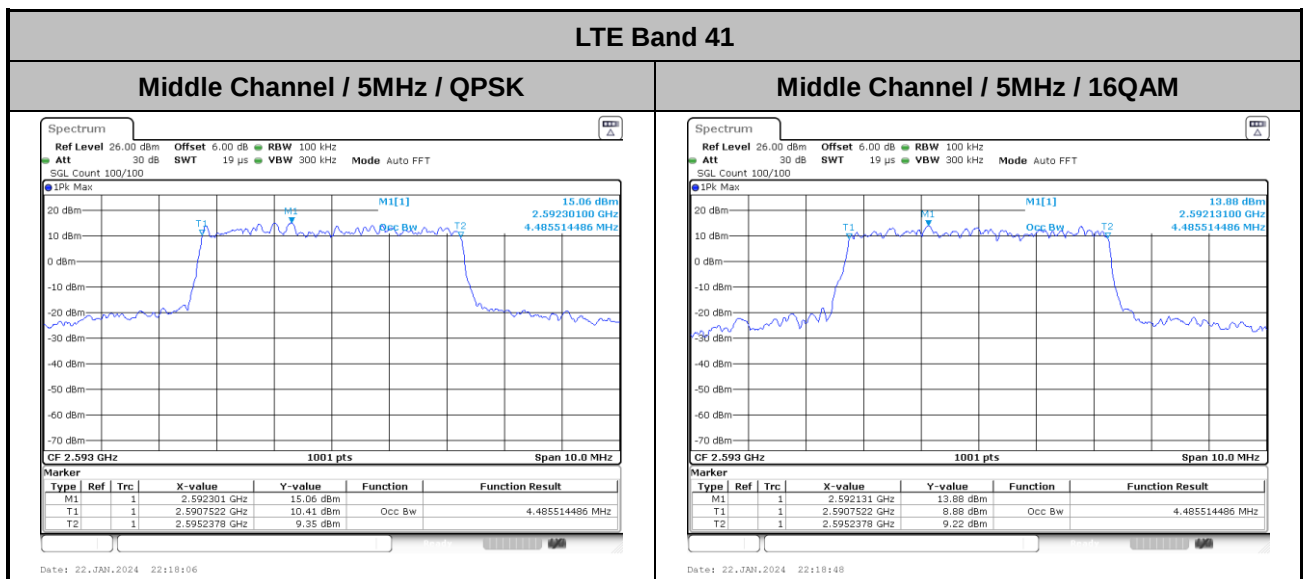


Date: 22.JAN.2024 22:22:43



Occupied Bandwidth

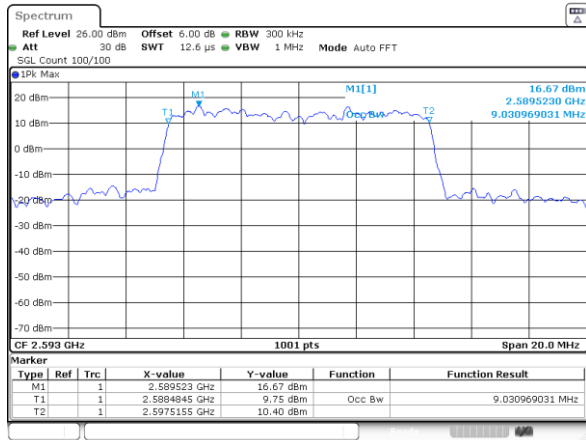
Mode	LTE Band 41 : 99%OBW(MHz)	
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	4.49	4.49
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.03	9.05
BW	15MHz	
Mod.	QPSK	16QAM
Middle CH	13.49	13.40
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	17.90	17.78





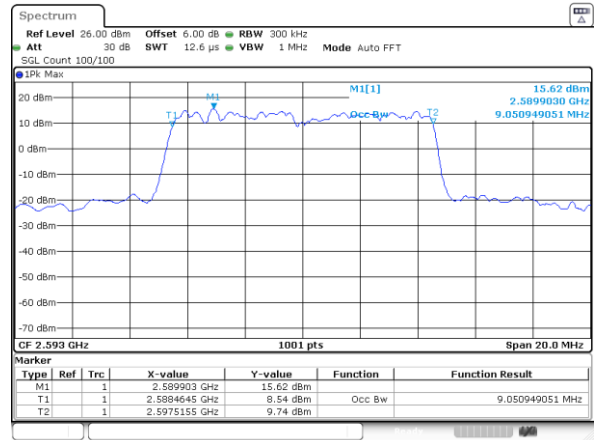
LTE Band 41

Middle Channel / 10MHz / QPSK



Date: 22.JAN.2024 22:19:10

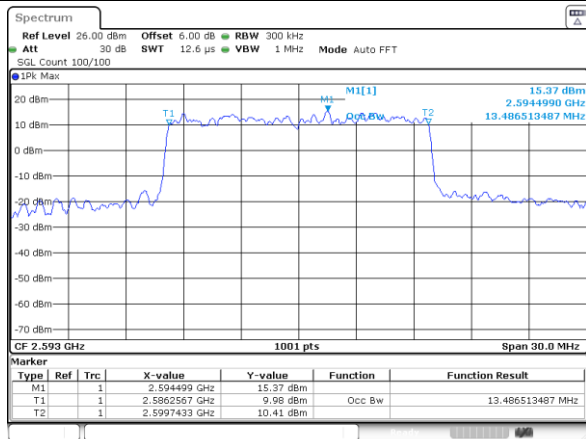
Middle Channel / 10MHz / 16QAM



Date: 22.JAN.2024 22:20:14

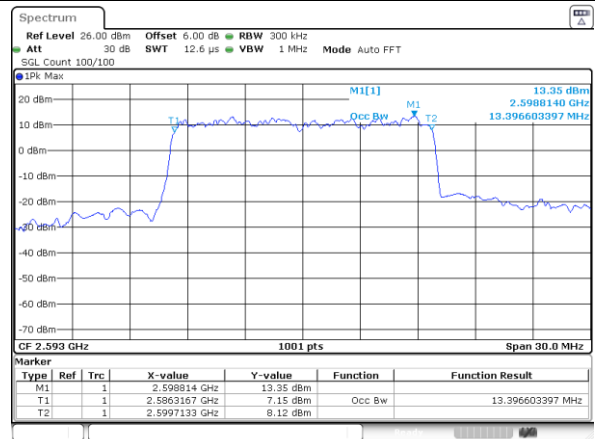
LTE Band 41

Middle Channel / 15MHz / QPSK



Date: 22.JAN.2024 22:20:36

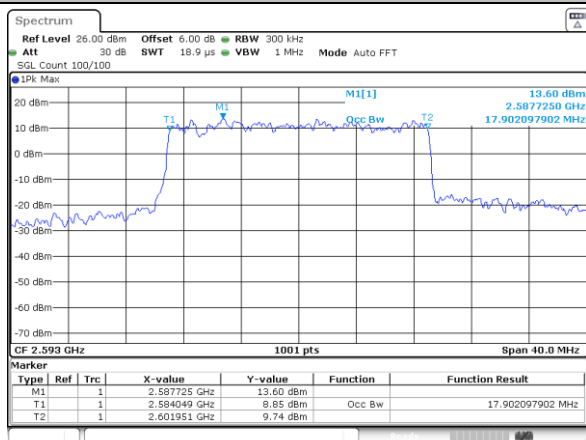
Middle Channel / 15MHz / 16QAM



Date: 22.JAN.2024 22:21:39

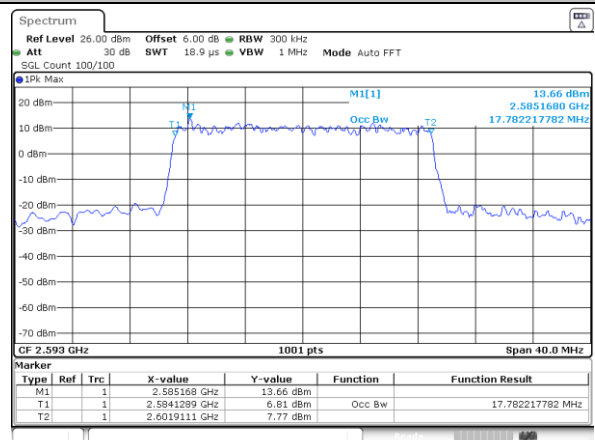
LTE Band 41

Middle Channel / 20MHz / QPSK



Date: 22.JAN.2024 22:22:01

Middle Channel / 20MHz / 16QAM



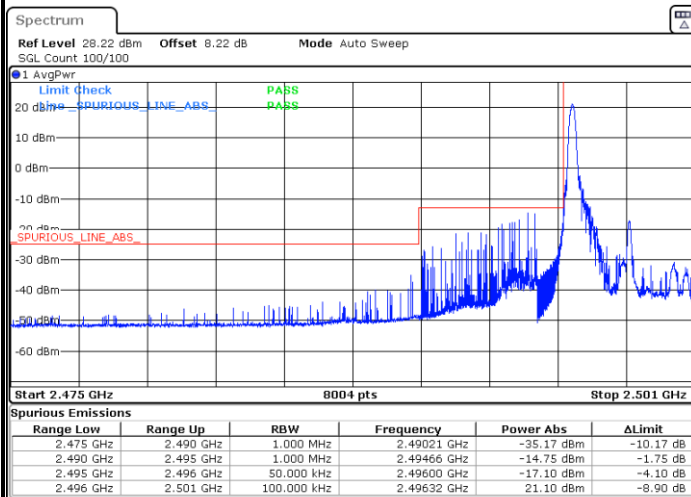
Date: 22.JAN.2024 22:23:05



Conducted Band Edge

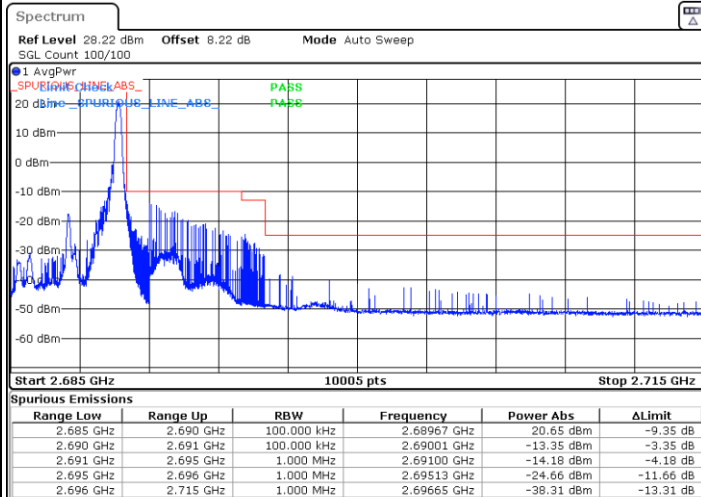
LTE Band 41 / 5MHz / QPSK

Lowest Band Edge / 1 RB



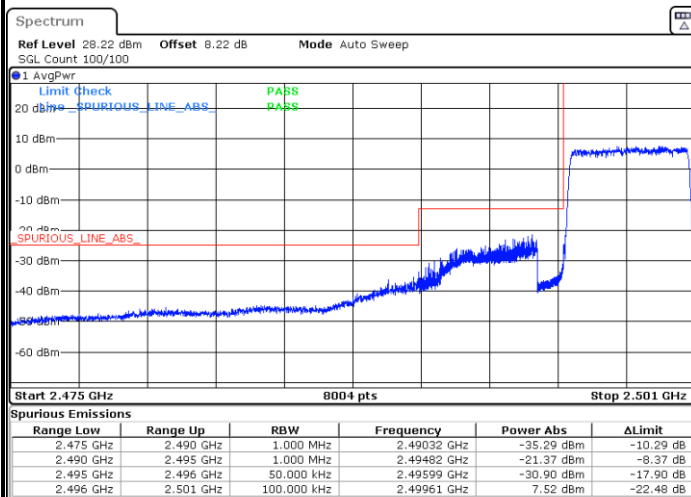
Date: 22.JAN.2024 21:10:29

Highest Band Edge / 1 RB



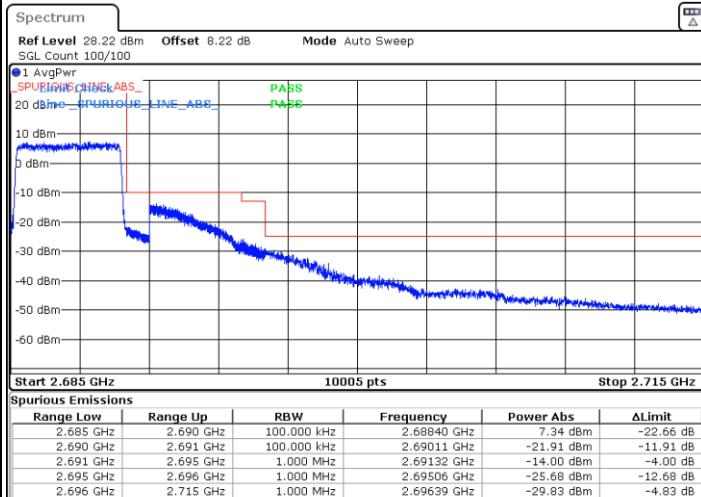
Date: 22.JAN.2024 21:15:14

Lowest Band Edge / Full RB



Date: 22.JAN.2024 21:14:28

Highest Band Edge / Full RB

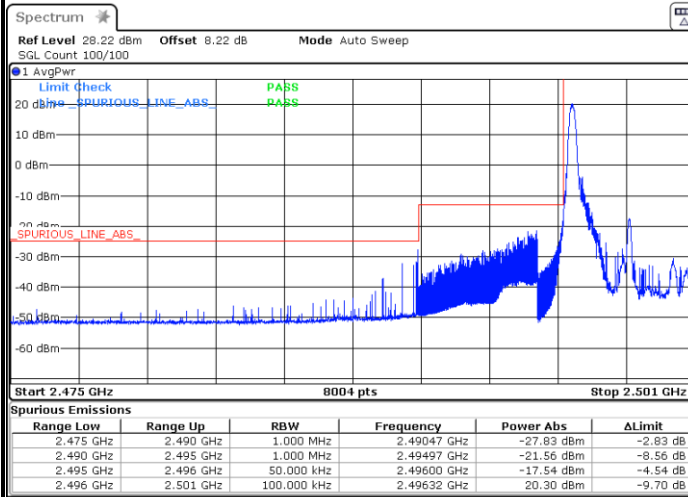


Date: 22.JAN.2024 21:19:05

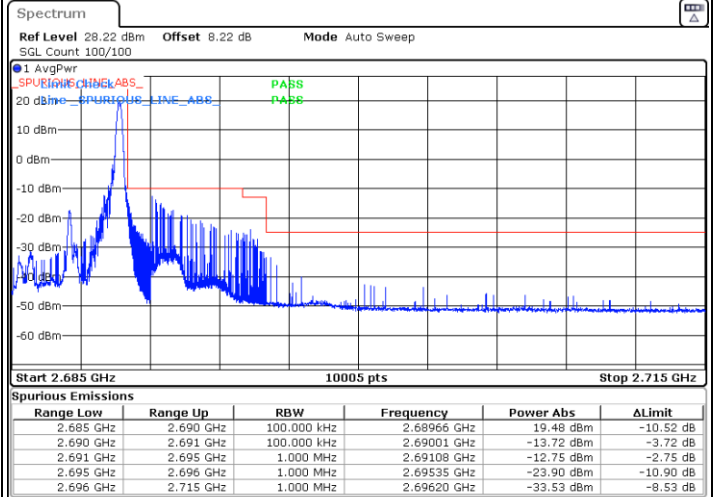


LTE Band 41 / 5MHz / 16QAM

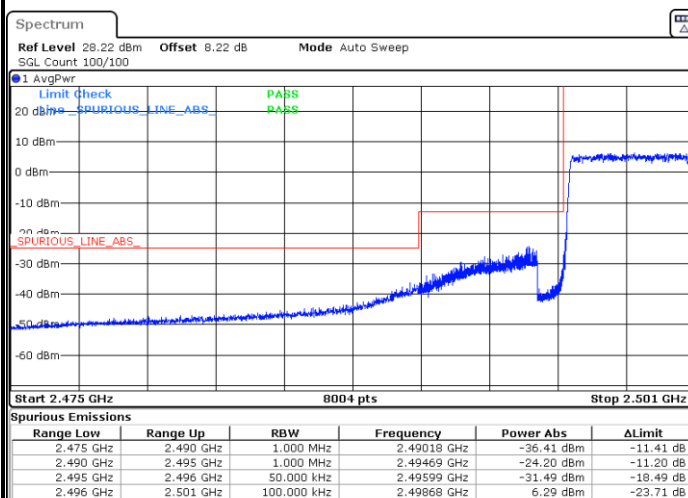
Lowest Band Edge / 1RB



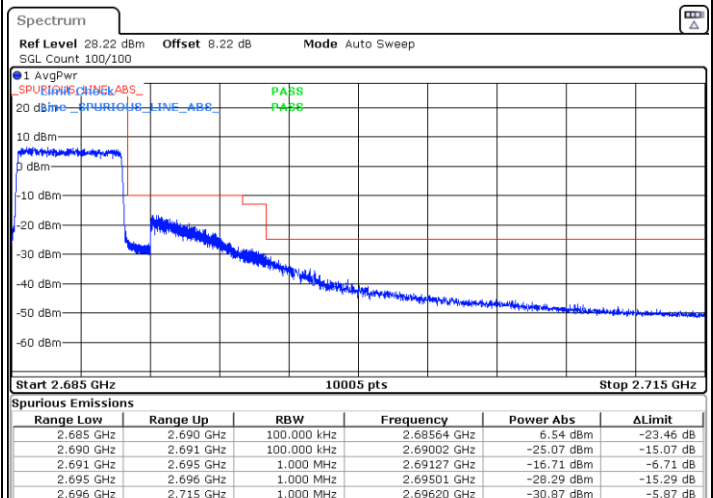
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



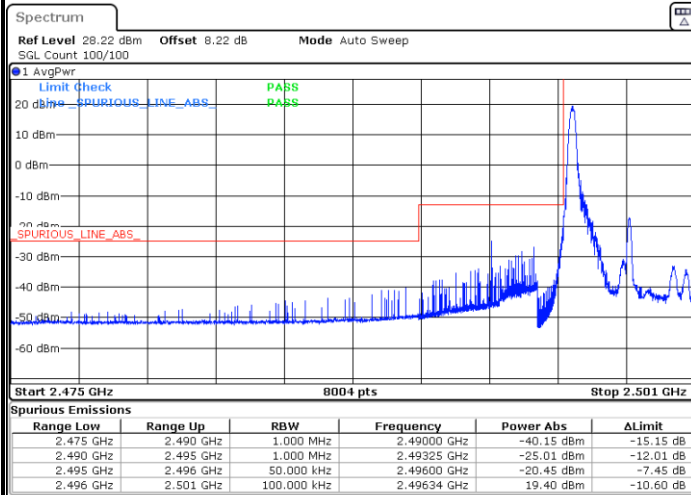
Highest Band Edge / Full RB





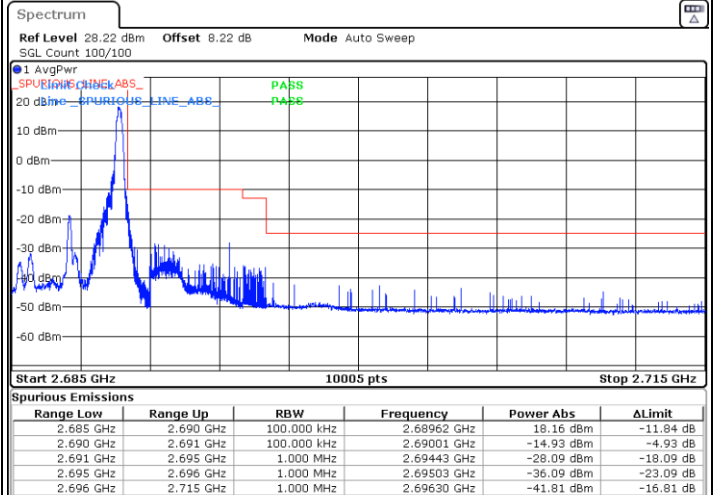
LTE Band 41 / 5MHz / 64QAM

Lowest Band Edge / 1RB



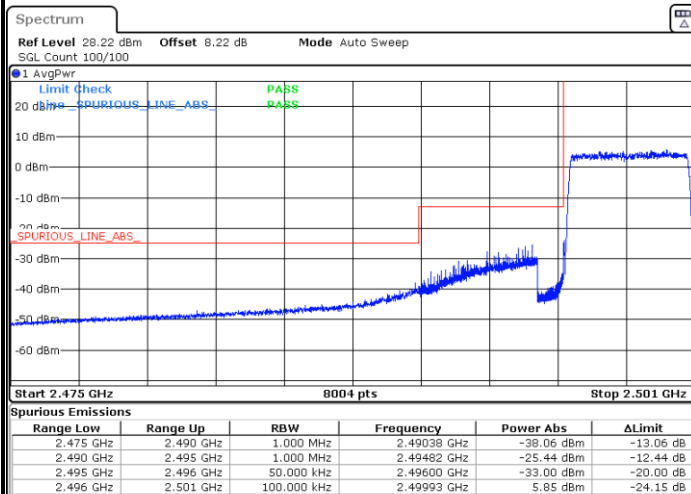
Date: 22.JAN.2024 21:12:05

Highest Band Edge / 1 RB



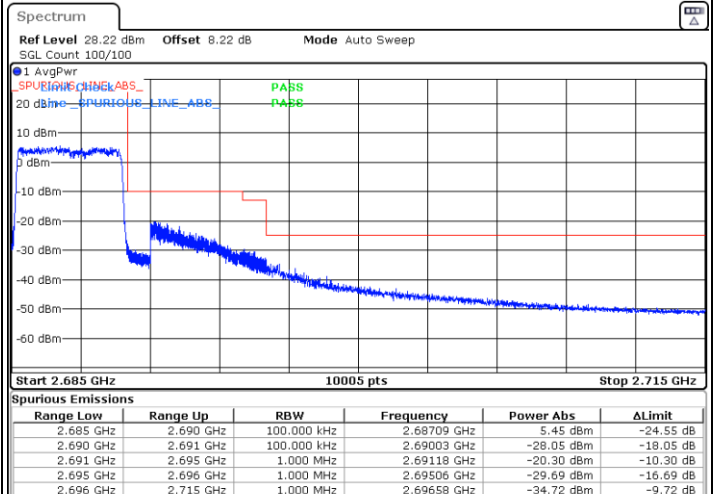
Date: 22.JAN.2024 21:16:46

Lowest Band Edge / Full RB



Date: 22.JAN.2024 21:12:53

Highest Band Edge / Full RB

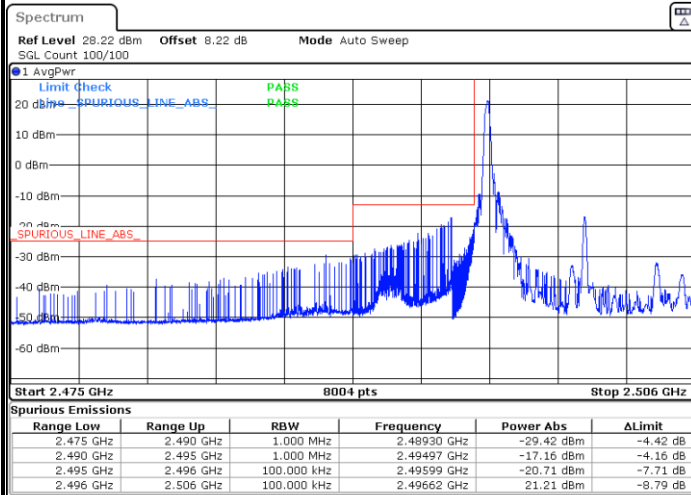


Date: 22.JAN.2024 21:17:33



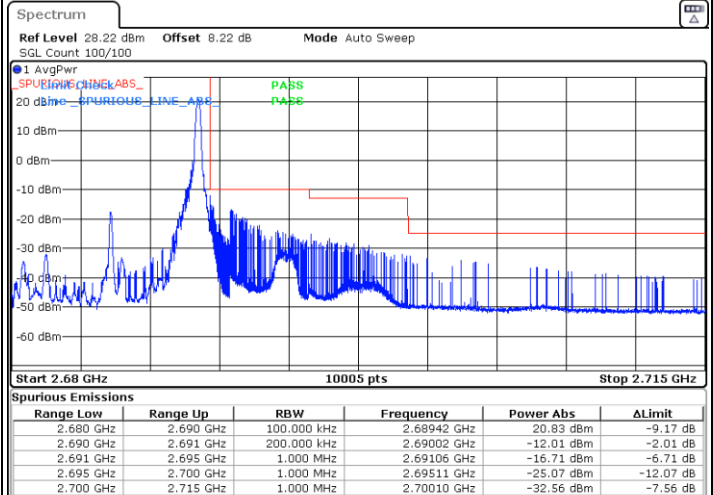
LTE Band 41 / 10MHz / QPSK

Lowest Band Edge / 1 RB



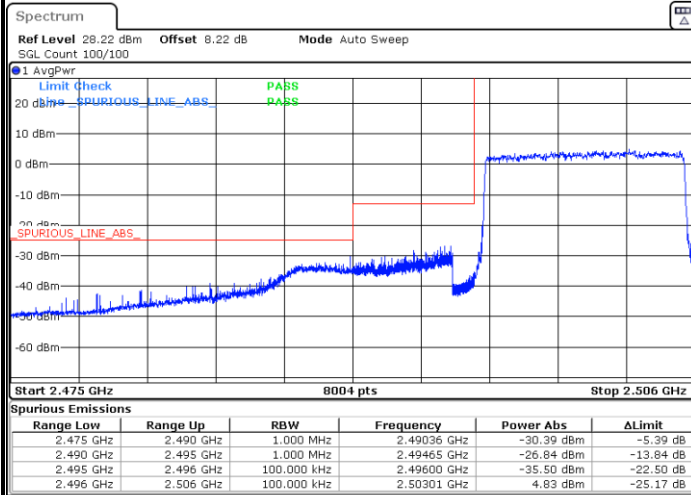
Date: 22.JAN.2024 21:19:54

Highest Band Edge / 1 RB



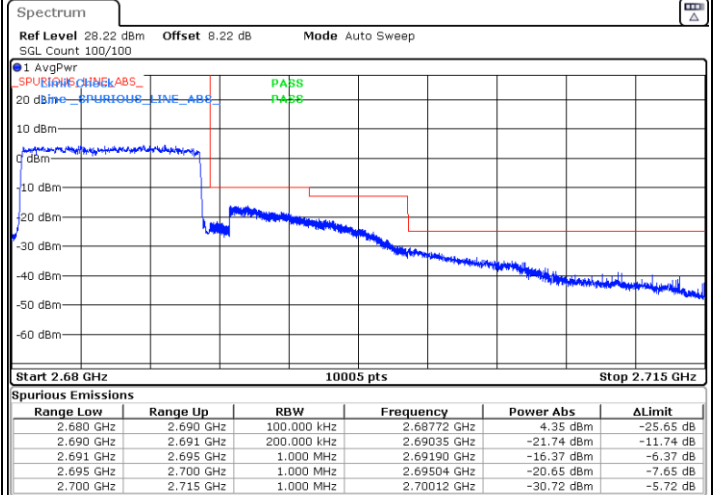
Date: 22.JAN.2024 21:24:39

Lowest Band Edge / Full RB



Date: 22.JAN.2024 21:22:17

Highest Band Edge / Full RB

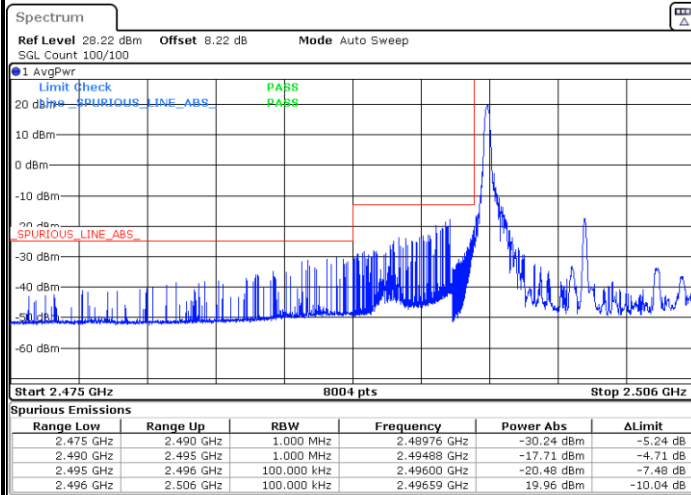


Date: 22.JAN.2024 21:26:56



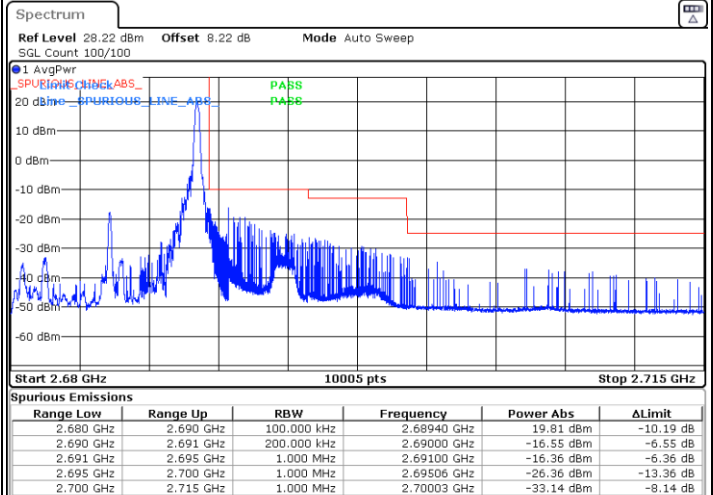
LTE Band 41 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



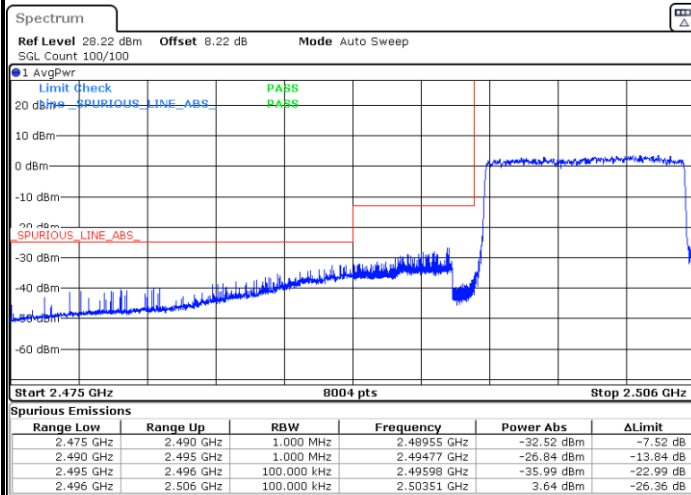
Date: 22.JAN.2024 21:20:41

Highest Band Edge / 1 RB



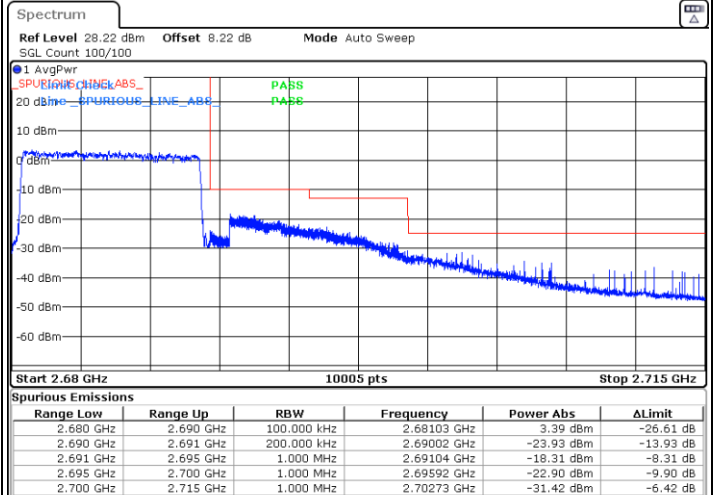
Date: 22.JAN.2024 21:25:25

Lowest Band Edge / Full RB



Date: 22.JAN.2024 21:23:05

Highest Band Edge / Full RB

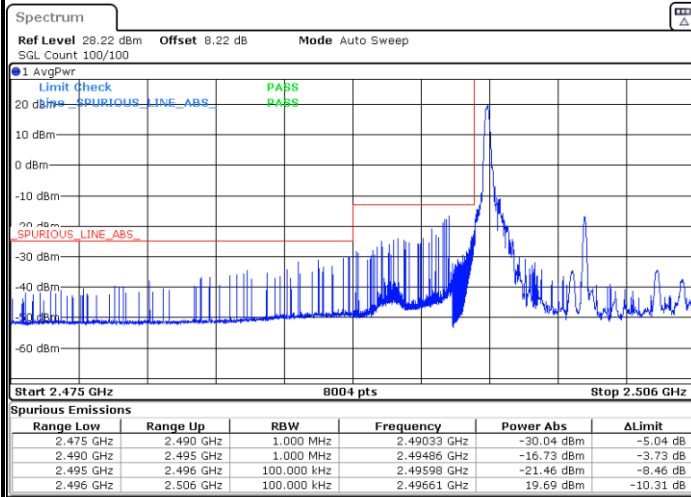


Date: 22.JAN.2024 21:27:42



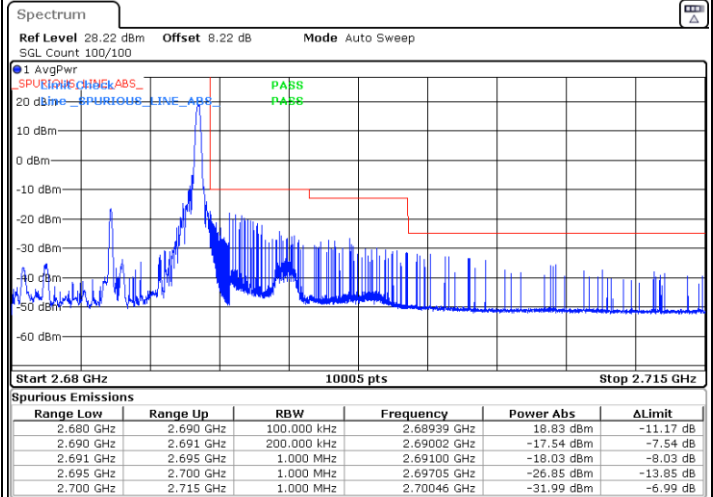
LTE Band 41 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



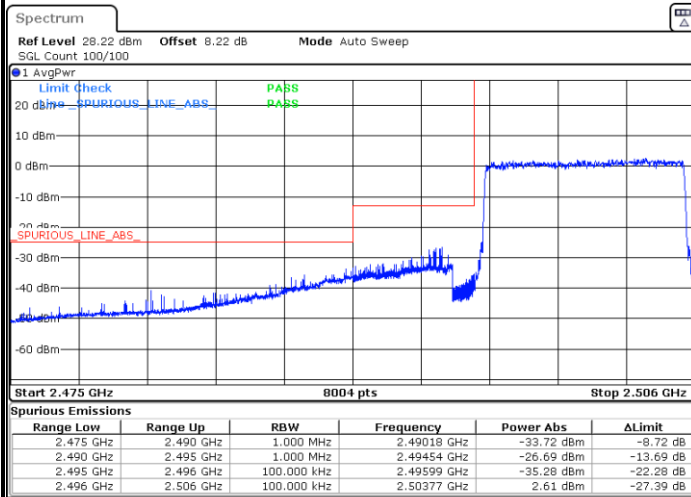
Date: 22.JAN.2024 21:21:29

Highest Band Edge / 1 RB



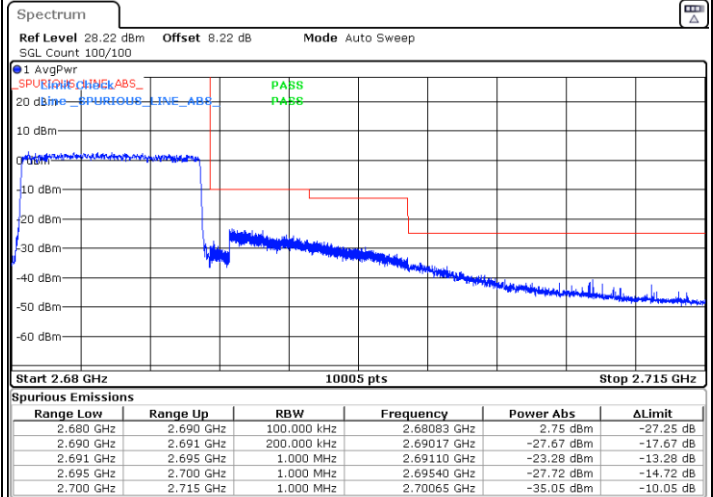
Date: 22.JAN.2024 21:26:10

Lowest Band Edge / Full RB



Date: 22.JAN.2024 21:23:53

Highest Band Edge / Full RB

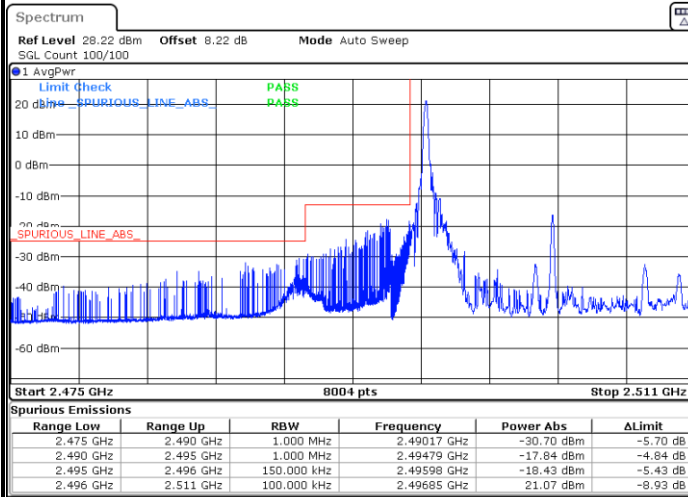


Date: 22.JAN.2024 21:28:28



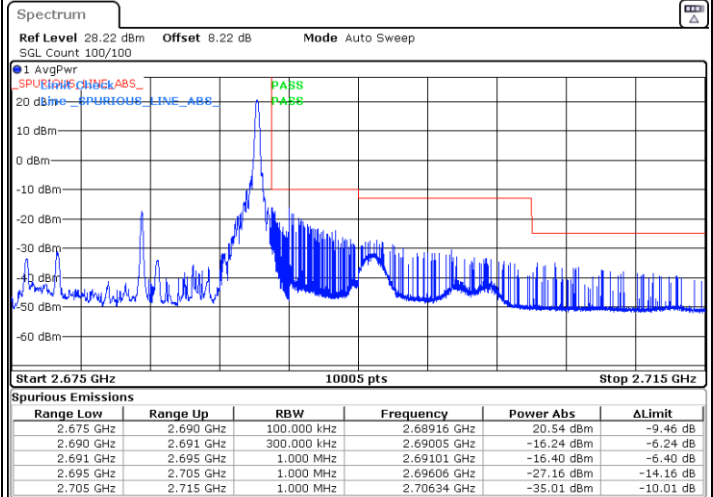
LTE Band 41 / 15MHz / QPSK

Lowest Band Edge / 1 RB



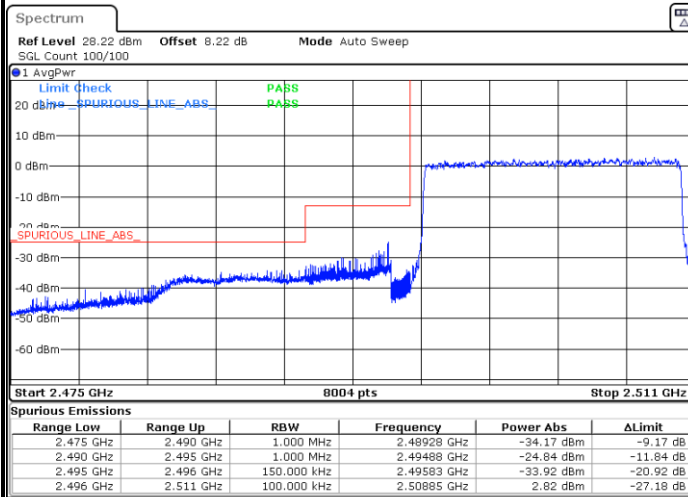
Date: 22.JAN.2024 21:29:21

Highest Band Edge / 1 RB



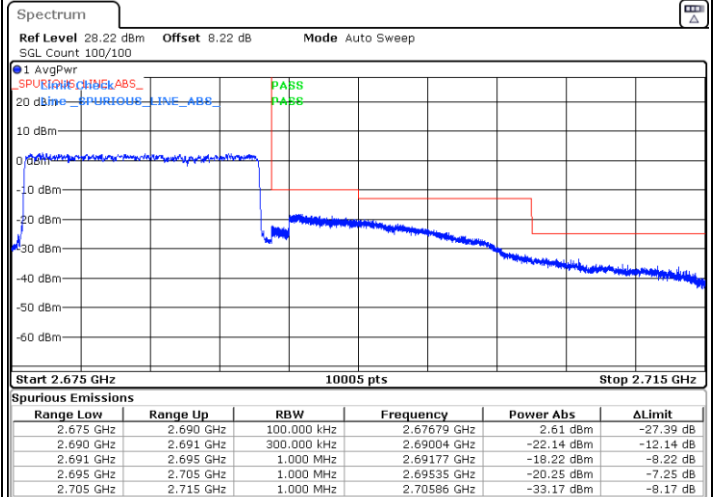
Date: 22.JAN.2024 21:34:06

Lowest Band Edge / Full RB



Date: 22.JAN.2024 21:31:45

Highest Band Edge / Full RB



Date: 22.JAN.2024 21:36:22