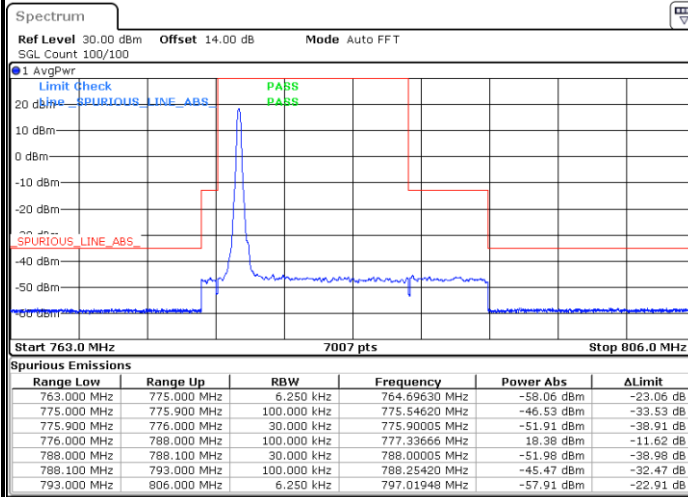




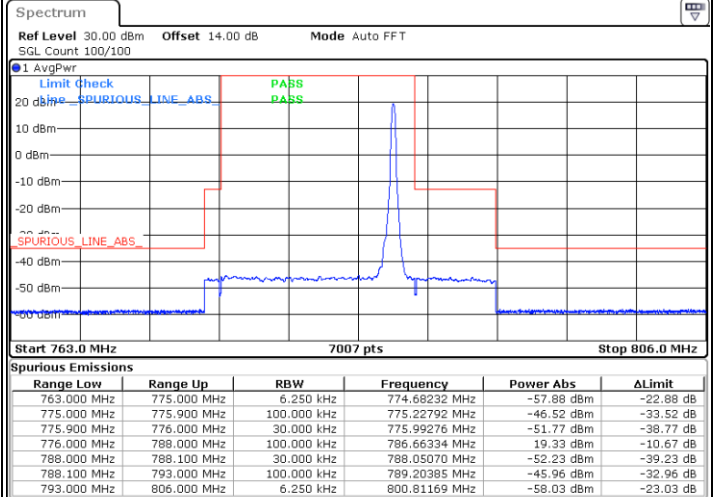
LTE Band 13 / 5MHz / 64QAM

Lowest Band Edge / 1 RB



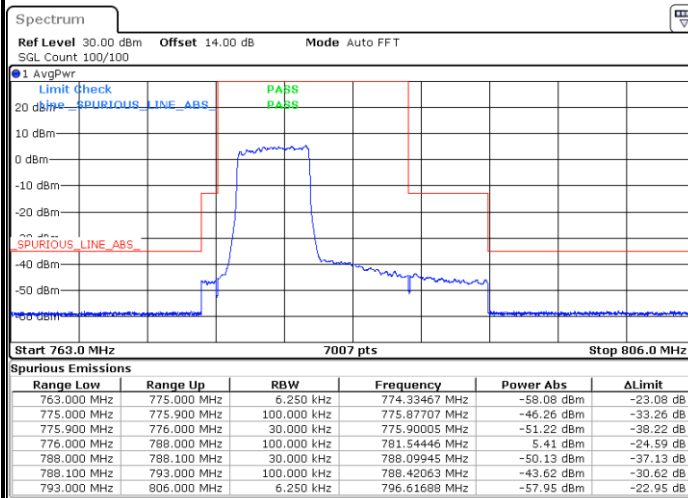
Date: 7.MAR.2024 05:21:39

Highest Band Edge / 1 RB



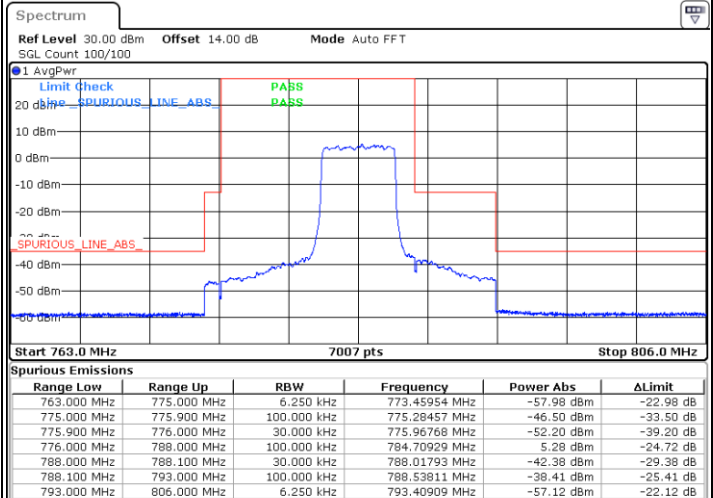
Date: 7.MAR.2024 05:30:36

Lowest Band Edge / Full RB



Date: 7.MAR.2024 05:24:08

Highest Band Edge / Full RB

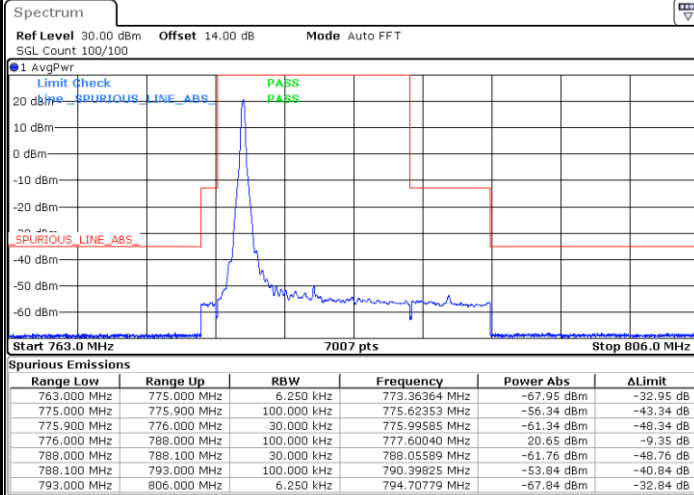


Date: 7.MAR.2024 05:33:03



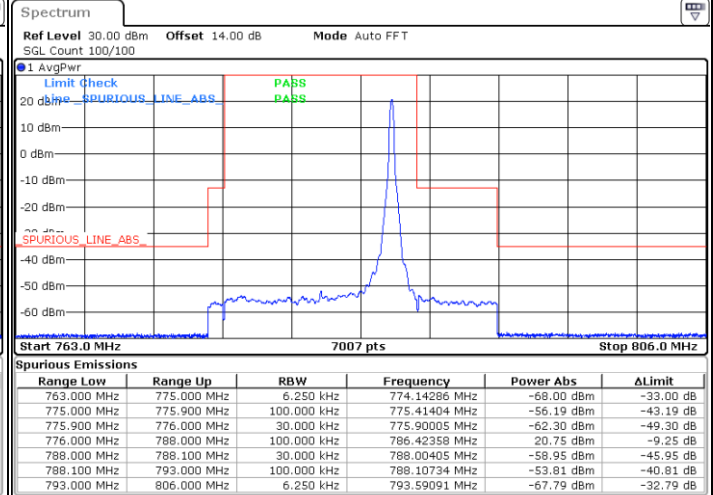
LTE Band 13 / 10MHz / QPSK

Band Edge / 1 RB



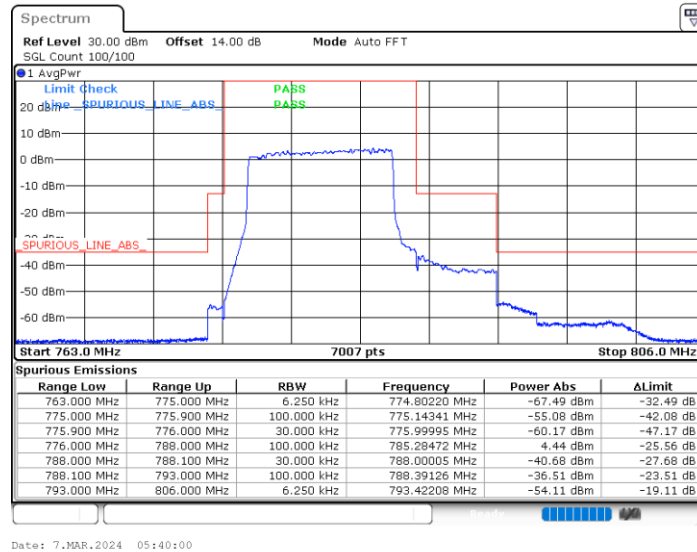
LTE Band 13 / 10MHz / QPSK

Band Edge / 1 RB



LTE Band 13 / 10MHz / QPSK

Band Edge / Full RB

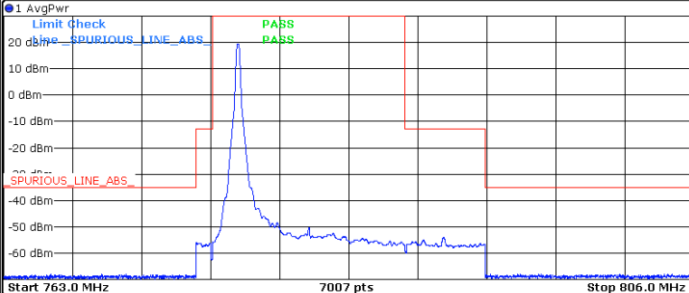




LTE Band 13 / 10MHz / 16QAM

Band Edge / 1 RB

Spectrum

Ref Level 30.00 dBm Offset 14.00 dB Mode Auto FFT
SGL Count 100/100

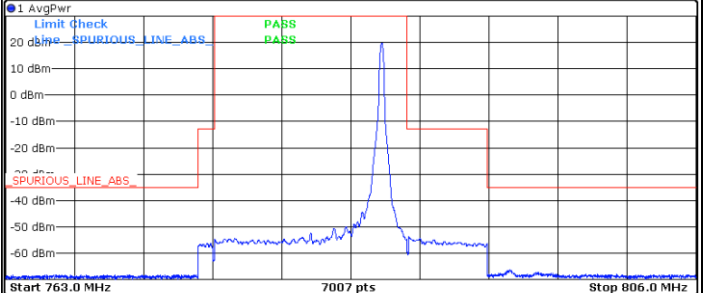
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	769.07193 MHz	-67.95 dBm	-32.95 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.00045 MHz	-56.02 dBm	-43.02 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.99995 MHz	-62.16 dBm	-49.16 dB
776.000 MHz	788.000 MHz	100.000 kHz	777.58841 MHz	19.41 dBm	-10.59 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.00674 MHz	-59.44 dBm	-46.44 dB
788.100 MHz	793.000 MHz	100.000 kHz	790.39336 MHz	-54.03 dBm	-41.03 dB
793.000 MHz	806.000 MHz	6.250 kHz	804.61688 MHz	-67.89 dBm	-32.89 dB

Date: 7.MAR.2024 05:35:58

LTE Band 13 / 10MHz / 16QAM

Band Edge / 1 RB

Spectrum

Ref Level 30.00 dBm Offset 14.00 dB Mode Auto FFT
SGL Count 100/100

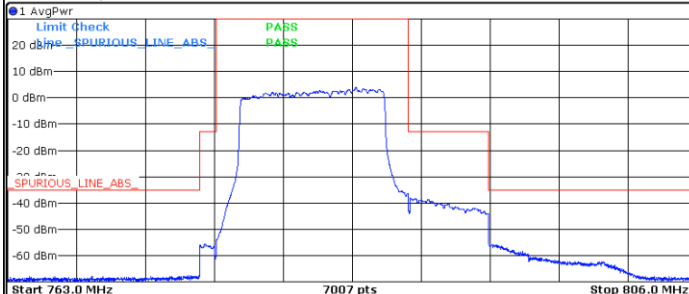
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	773.62737 MHz	-68.24 dBm	-33.24 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.54530 MHz	-56.44 dBm	-43.44 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.99995 MHz	-62.36 dBm	-49.36 dB
776.000 MHz	788.000 MHz	100.000 kHz	786.42358 MHz	19.63 dBm	-10.37 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.00055 MHz	-59.58 dBm	-46.58 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.10245 MHz	-53.78 dBm	-40.78 dB
793.000 MHz	806.000 MHz	6.250 kHz	794.42208 MHz	-66.35 dBm	-31.35 dB

Date: 7.MAR.2024 05:38:24

LTE Band 13 / 10MHz / 16QAM

Band Edge / Full RB

Spectrum

Ref Level 30.00 dBm Offset 14.00 dB Mode Auto FFT
SGL Count 100/100

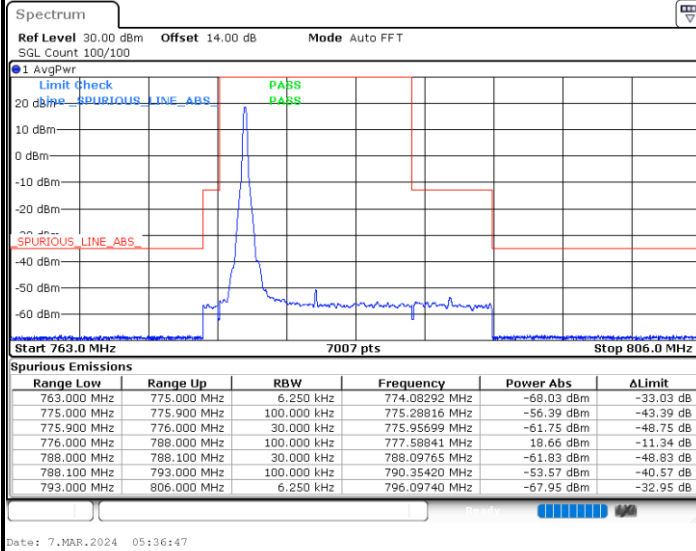
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	774.93407 MHz	-67.52 dBm	-32.52 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.30075 MHz	-55.67 dBm	-42.67 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.99575 MHz	-60.18 dBm	-47.18 dB
776.000 MHz	788.000 MHz	100.000 kHz	784.70929 MHz	3.92 dBm	-26.08 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.00175 MHz	-42.88 dBm	-29.88 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.10245 MHz	-38.17 dBm	-25.17 dB
793.000 MHz	806.000 MHz	6.250 kHz	793.12338 MHz	-55.52 dBm	-20.52 dB

Date: 7.MAR.2024 05:40:52



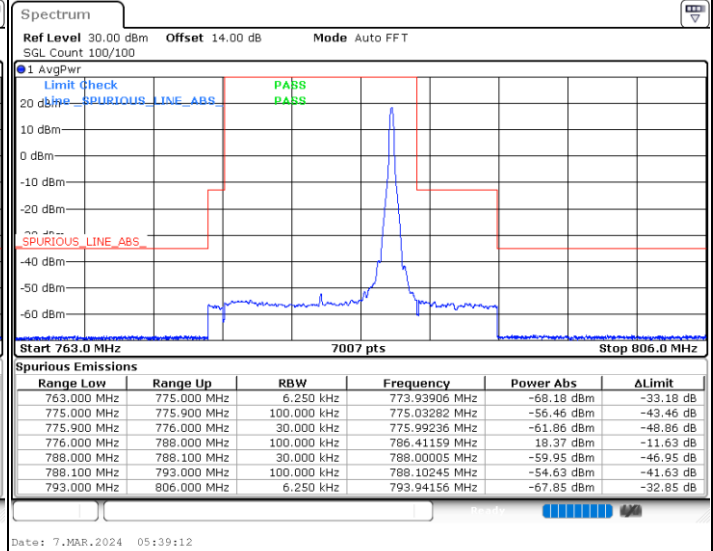
LTE Band 13 / 10MHz / 64QAM

Band Edge / 1 RB



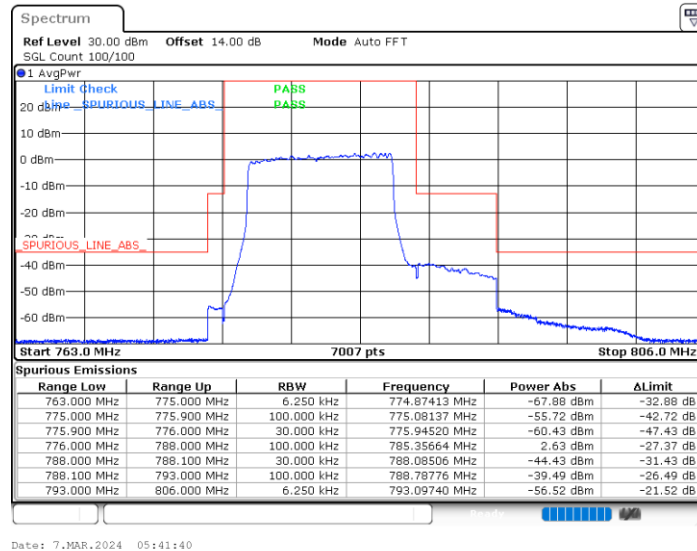
LTE Band 13 / 10MHz / 64QAM

Band Edge / 1 RB



LTE Band 13 / 10MHz / 64QAM

Band Edge / Full RB

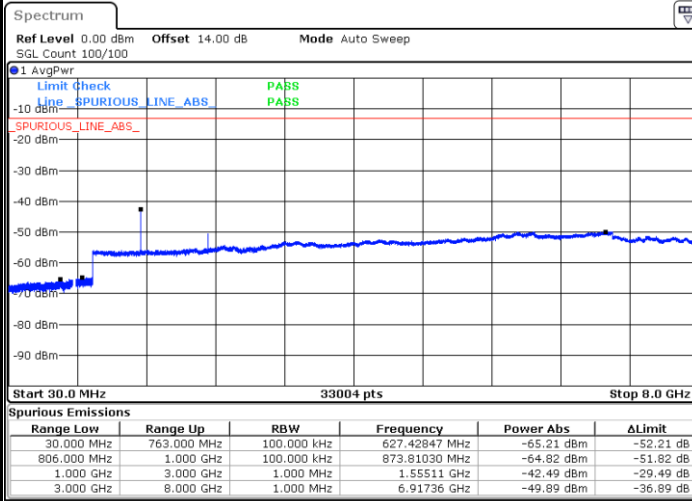




Conducted Spurious Emission

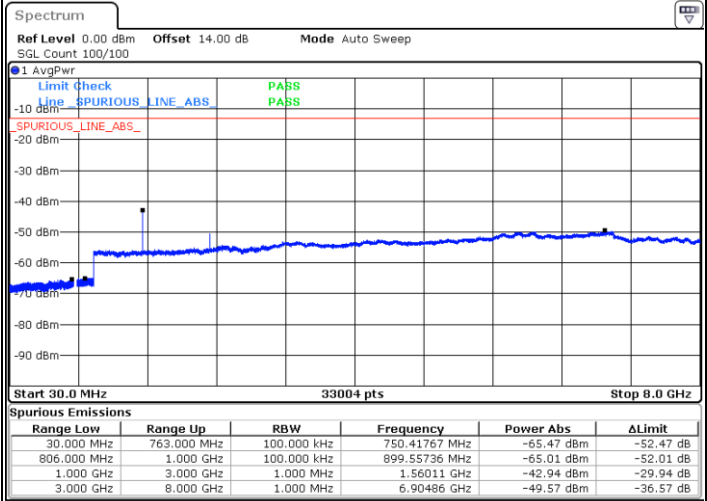
LTE Band 13 / 5MHz

Lowest Channel / QPSK



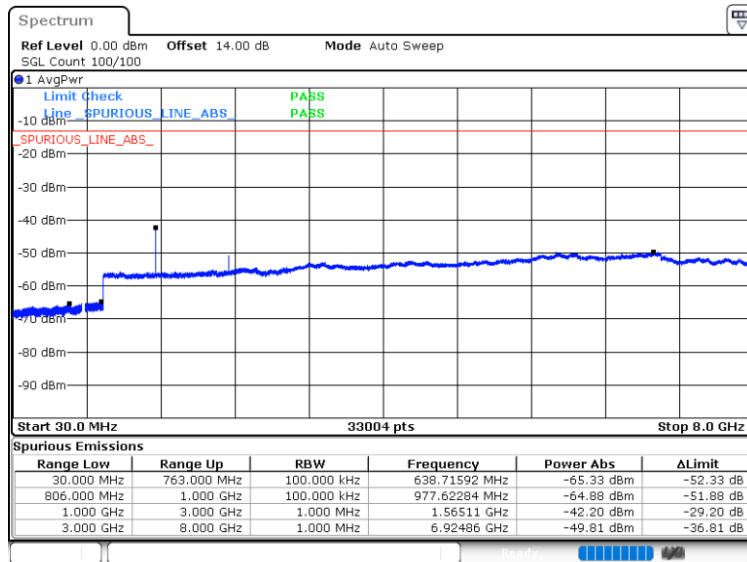
Date: 7.MAR.2024 05:25:21

Middle Channel / QPSK



Date: 7.MAR.2024 05:26:34

Highest Channel / QPSK

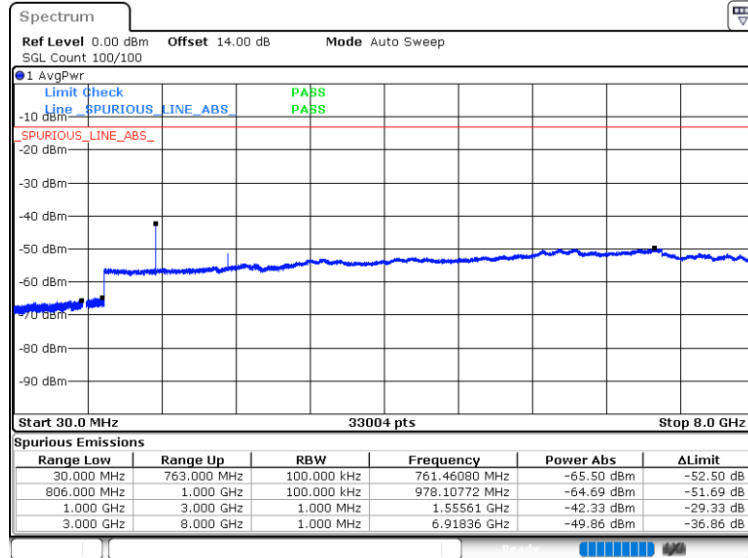


Date: 7.MAR.2024 05:34:16



LTE Band 13 / 10MHz

Middle Channel / QPSK



Date: 7.MAR.2024 05:42:56

Frequency Stability

Test Conditions		LTE Band 13 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0012	PASS
40	Normal Voltage	0.0023	
30	Normal Voltage	0.0015	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0005	
0	Normal Voltage	0.0004	
-10	Normal Voltage	0.0002	
-20	Normal Voltage	0.0004	
-30	Normal Voltage	0.0013	
20	Maximum Voltage	0.0001	
20	Normal Voltage	0.0000	
20	Minimum Voltage	0.0002	

Note:

1. Normal Voltage =4.0 V. ; Minimum Voltage =3.4 V. ; Maximum Voltage =4.2 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 71

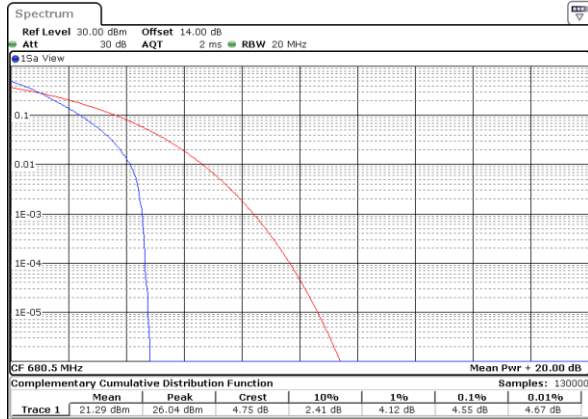
Peak-to-Average Ratio

Mode	LTE Band 71 / 20MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	4.55	5.74	6.38	PASS



LTE Band 71 / 20MHz / QPSK

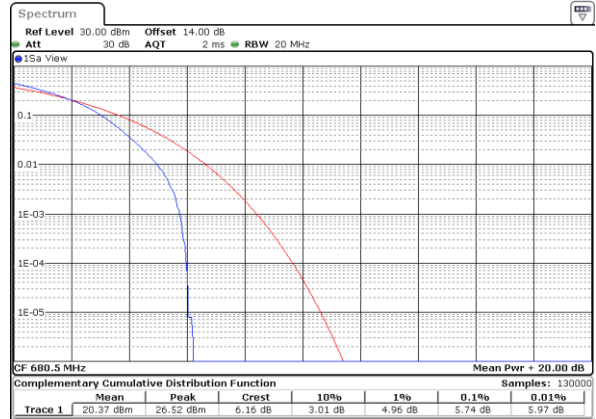
Middle Channel / Full RB



Date: 7.MAR.2024 08:21:23

LTE Band 71 / 20MHz / 16QAM

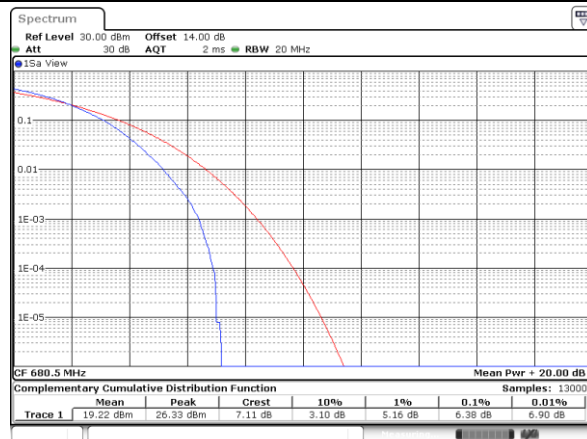
Middle Channel / Full RB



Date: 7.MAR.2024 08:21:53

LTE Band 71 / 20MHz / 64QAM

Middle Channel / Full RB



Date: 7.MAR.2024 08:22:23



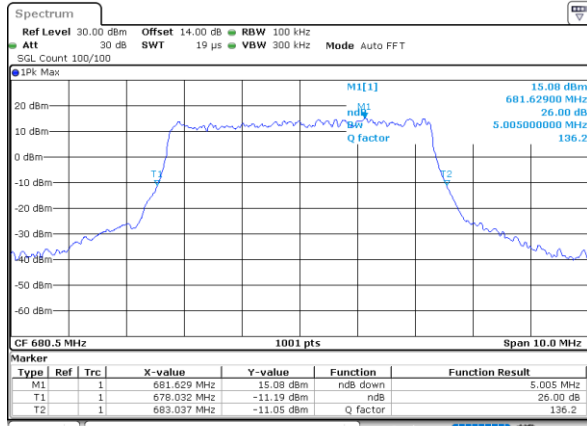
26dB Bandwidth

Mode	LTE Band 71 : 26dB BW(MHz)							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	5.01	5.10	9.97	9.89	14.57	14.45	18.78	18.74



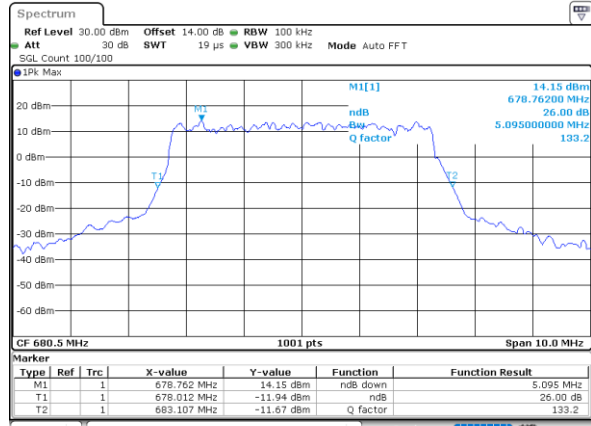
LTE Band 71

Middle Channel / 5MHz / QPSK



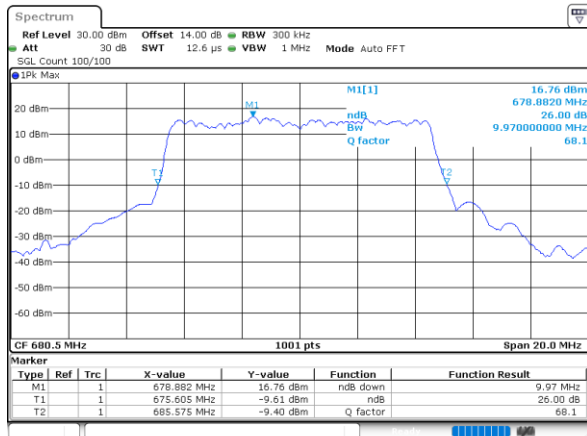
Date: 7,MAR,2024 07:26:17

Middle Channel / 5MHz / 16QAM



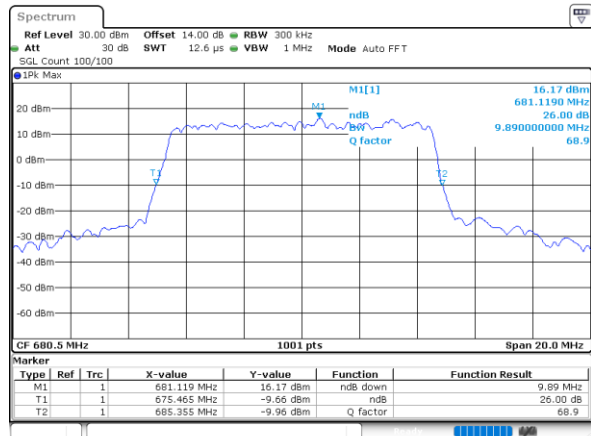
Date: 7,MAR,2024 07:27:03

Middle Channel / 10MHz / QPSK



Date: 7,MAR,2024 07:44:17

Middle Channel / 10MHz / 16QAM

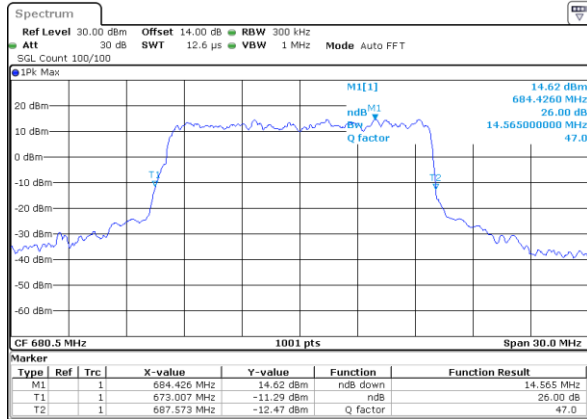


Date: 7,MAR,2024 07:45:00

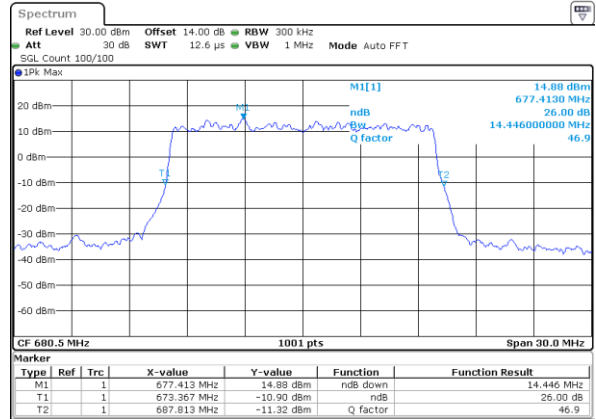


LTE Band 71

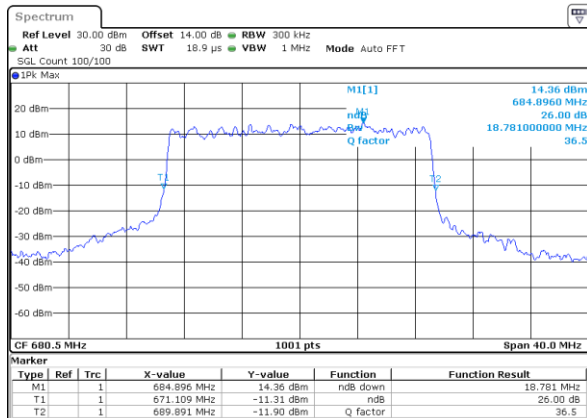
Middle Channel / 15MHz / QPSK



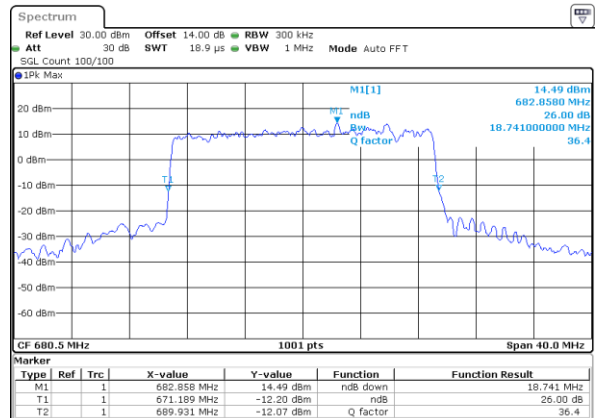
Middle Channel / 15MHz / 16QAM



Middle Channel / 20MHz / QPSK



Middle Channel / 20MHz / 16QAM





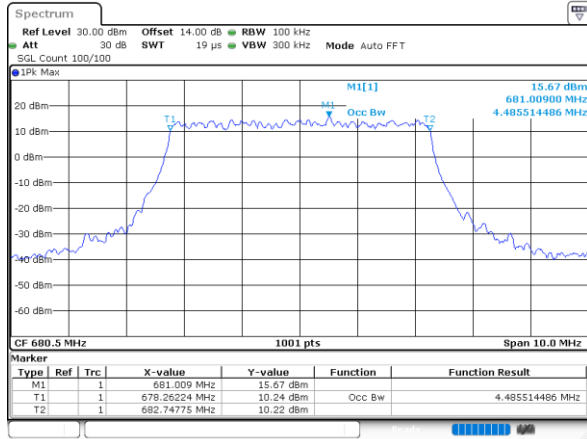
Occupied Bandwidth

Mode	LTE Band 71 : 99%OBW(MHz)							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	4.49	4.49	9.01	8.95	13.40	13.40	17.86	17.86

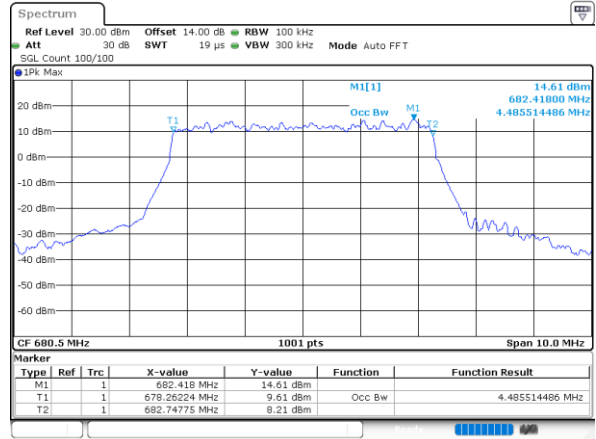


LTE Band 71

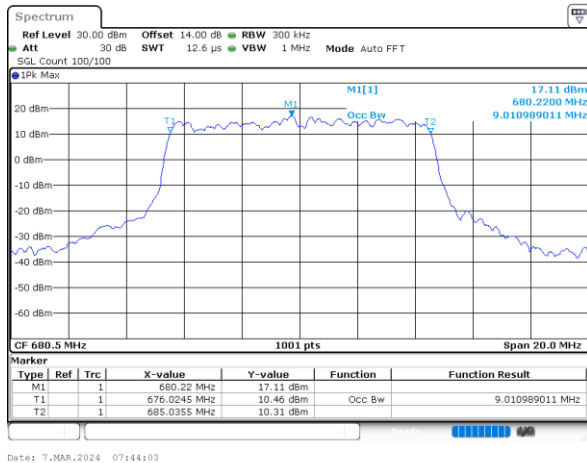
Middle Channel / 5MHz / QPSK



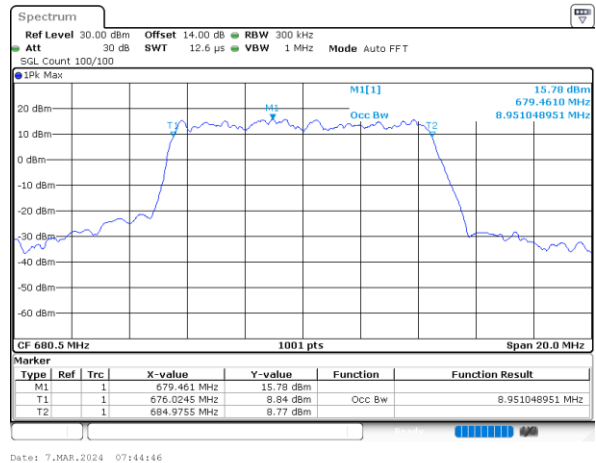
Middle Channel / 5MHz / 16QAM



Middle Channel / 10MHz / QPSK



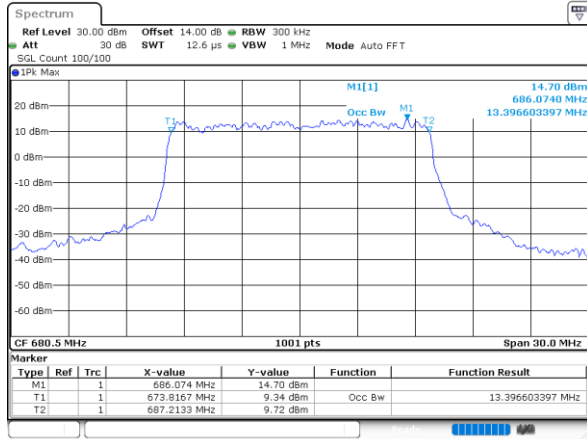
Middle Channel / 10MHz / 16QAM



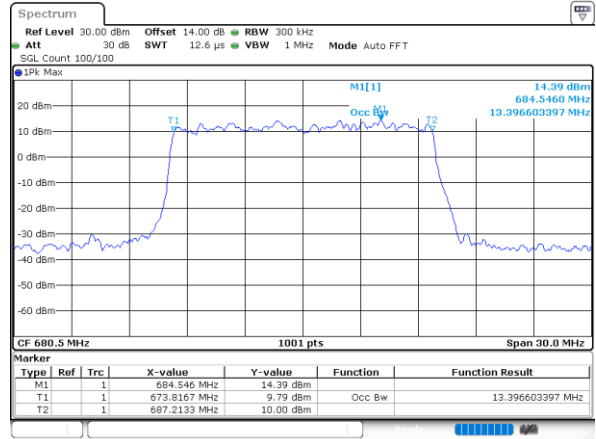


LTE Band 71

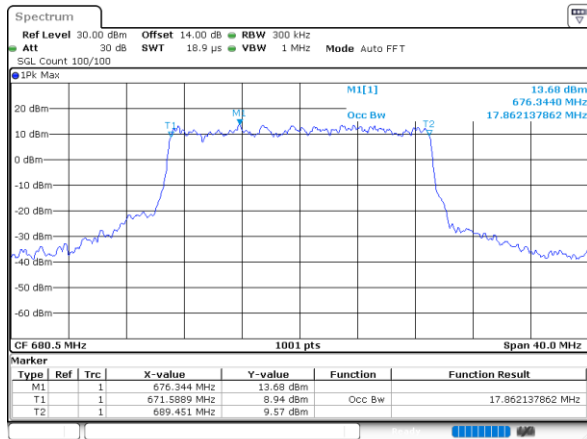
Middle Channel / 15MHz / QPSK



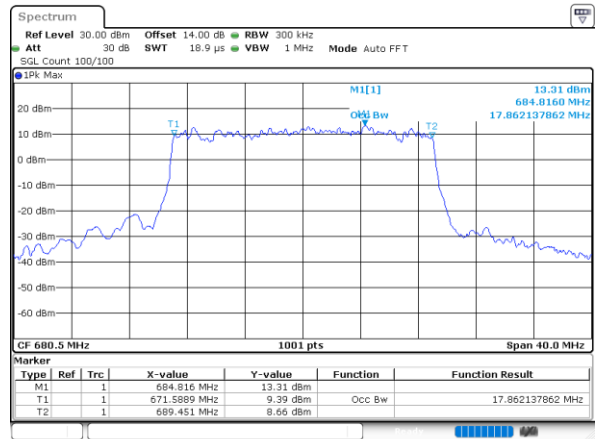
Middle Channel / 15MHz / 16QAM



Middle Channel / 20MHz / QPSK



Middle Channel / 20MHz / 16QAM

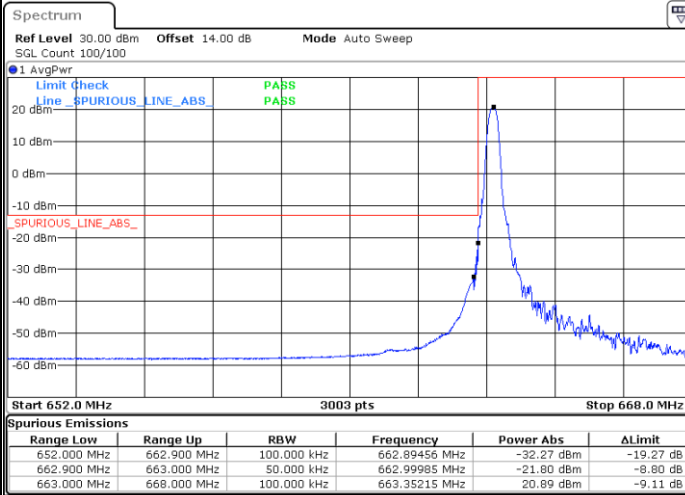




Conducted Band Edge

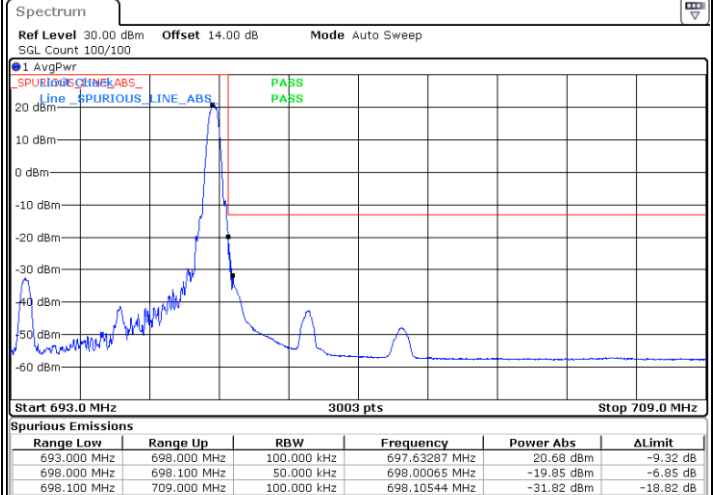
LTE Band 71 / 5MHz / QPSK

Lowest Band Edge / 1 RB



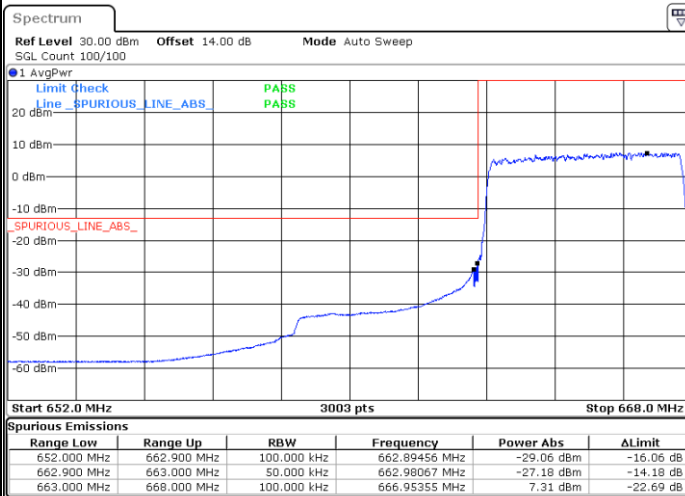
Date: 7.MAR.2024 07:17:39

Highest Band Edge / 1 RB



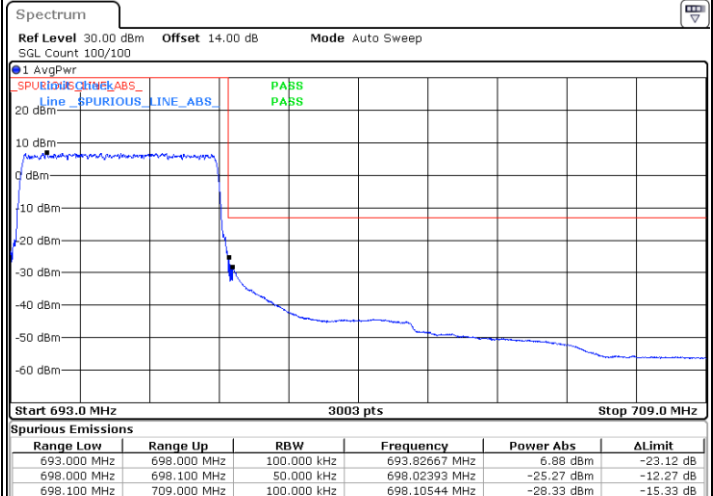
Date: 7.MAR.2024 07:28:06

Lowest Band Edge / Full RB



Date: 7.MAR.2024 07:21:00

Highest Band Edge / Full RB

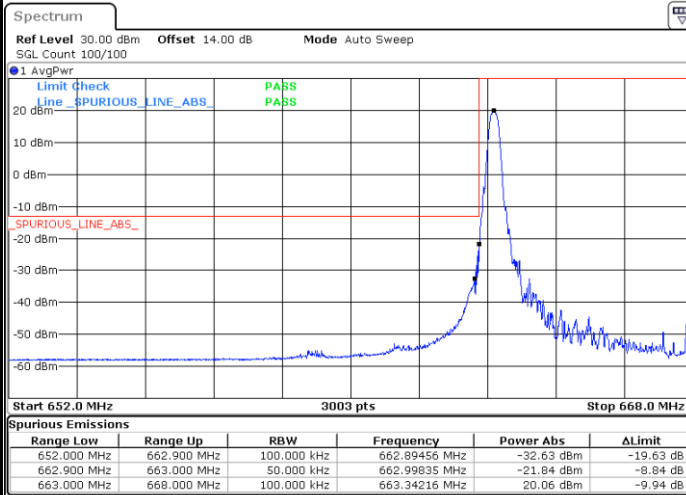


Date: 7.MAR.2024 07:31:17

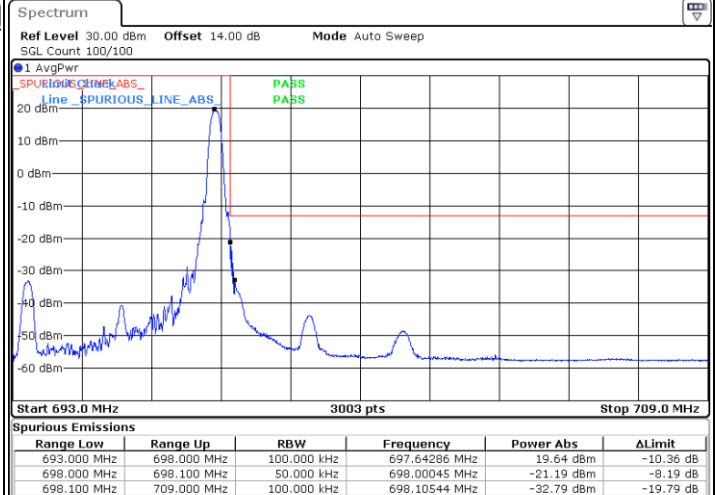


LTE Band 71 / 5MHz / 16QAM

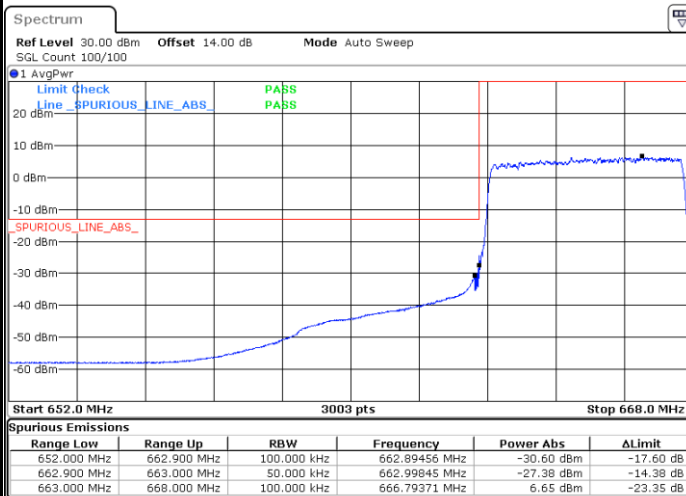
Lowest Band Edge / 1RB



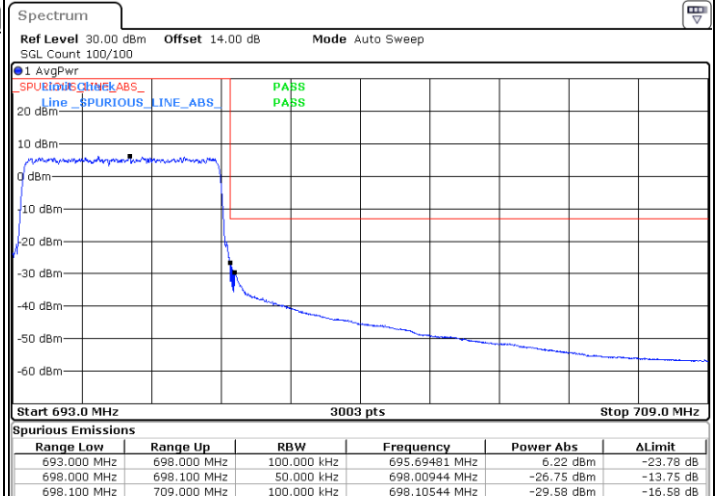
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



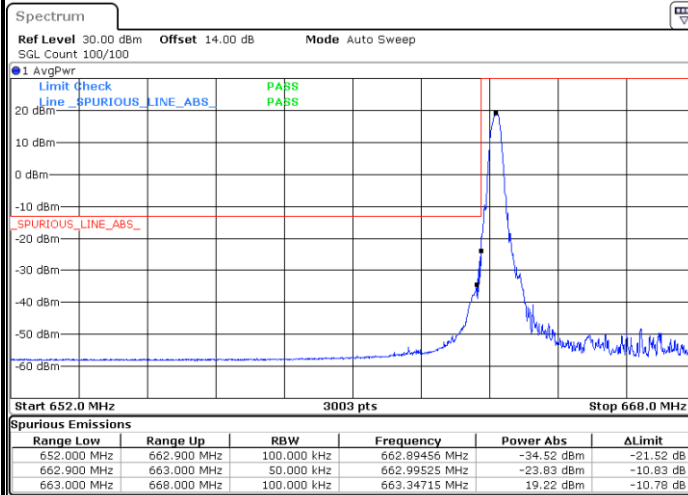
Highest Band Edge / Full RB



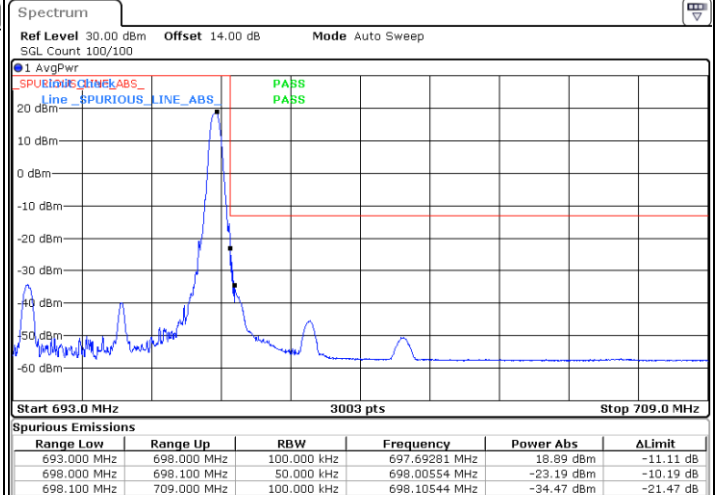


LTE Band 71 / 5MHz / 64QAM

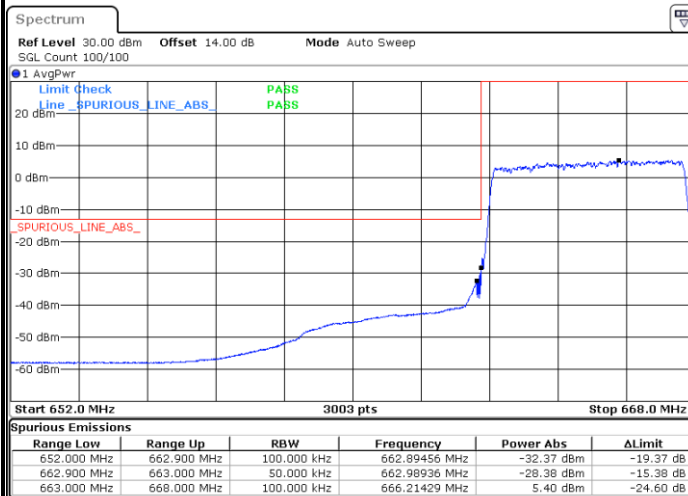
Lowest Band Edge / 1RB



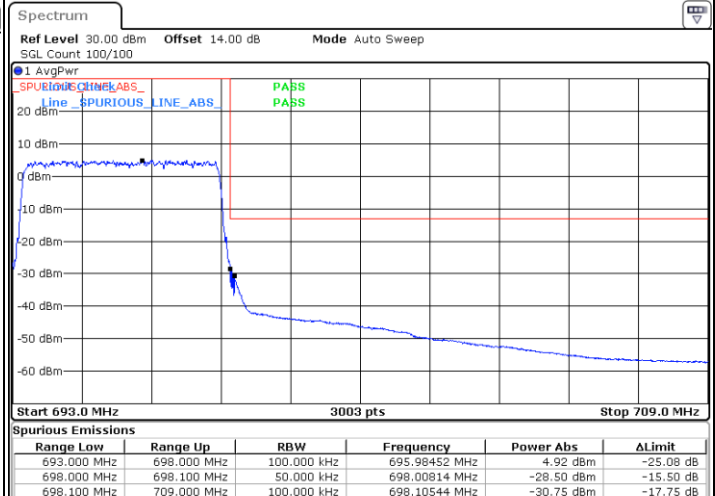
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



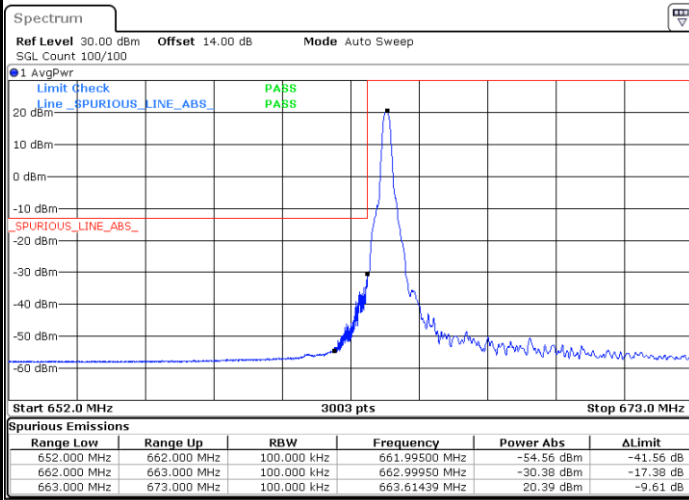
Highest Band Edge / Full RB



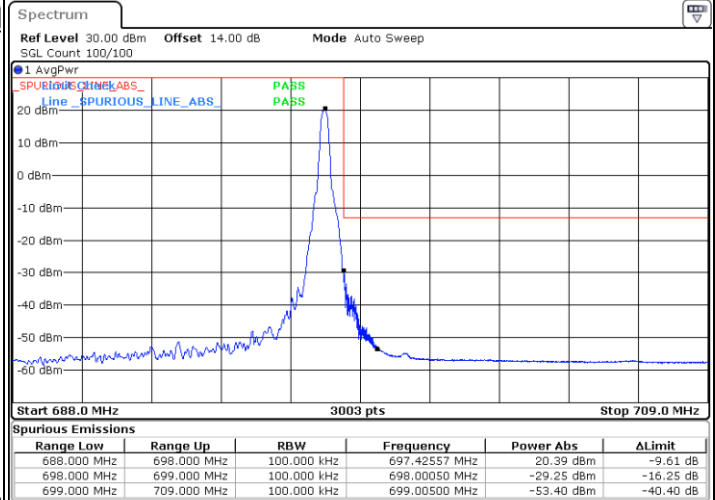


LTE Band 71 / 10MHz / QPSK

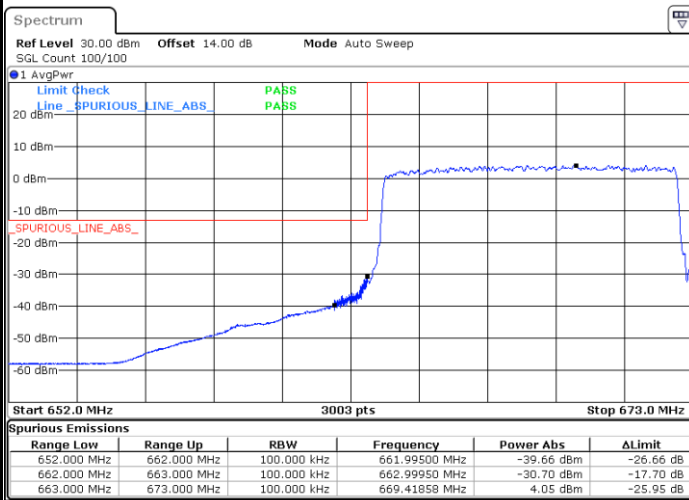
Lowest Band Edge / 1 RB



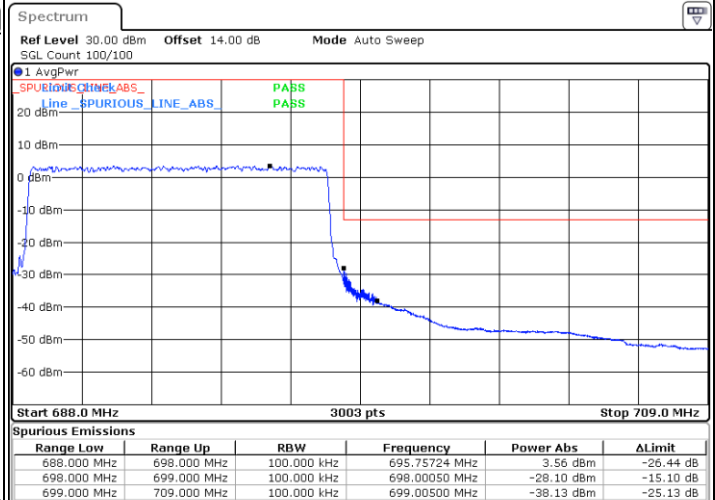
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



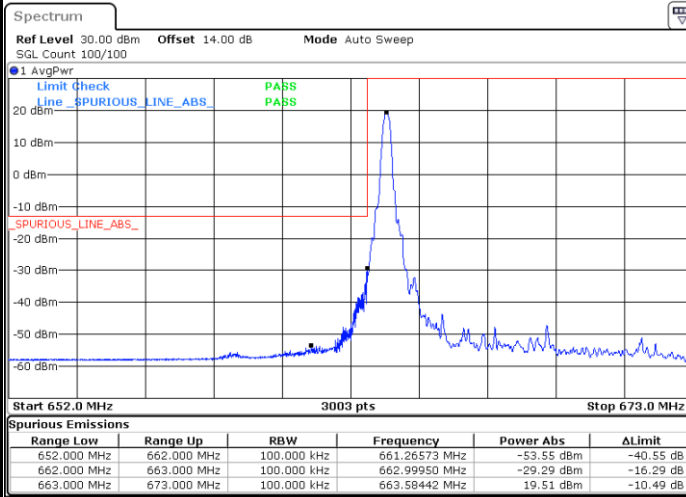
Highest Band Edge / Full RB



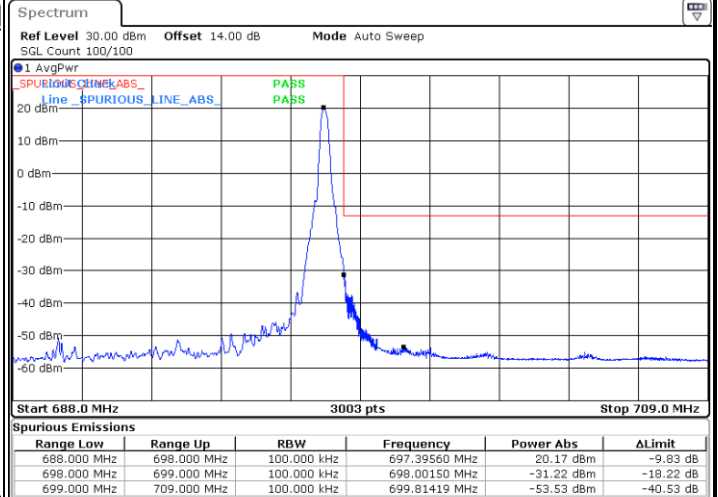


LTE Band 71 / 10MHz / 16QAM

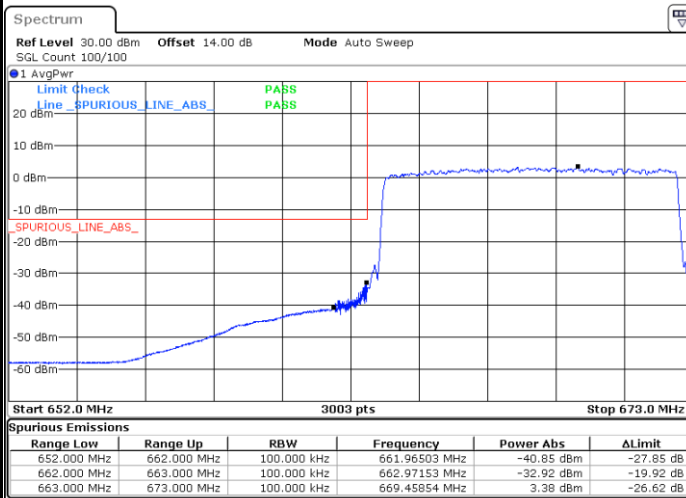
Lowest Band Edge / 1RB



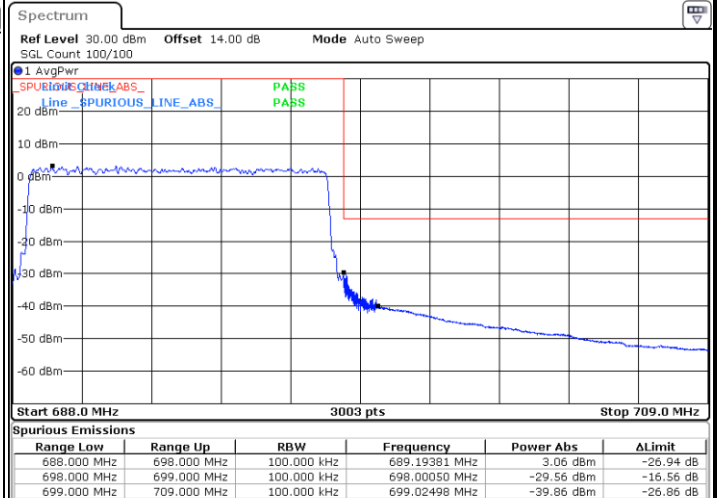
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



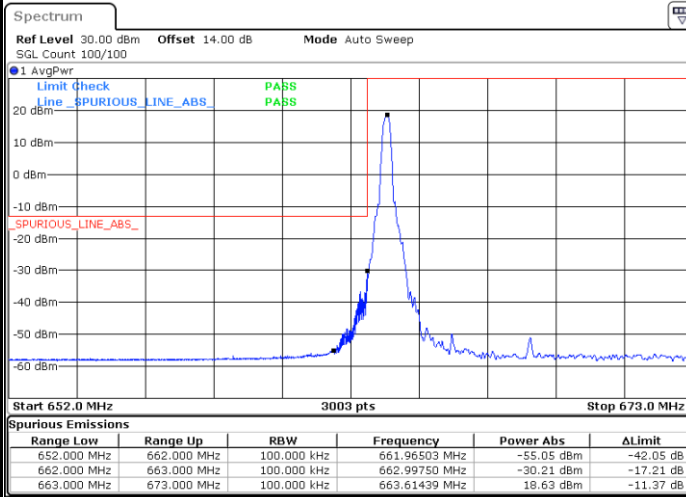
Highest Band Edge / Full RB



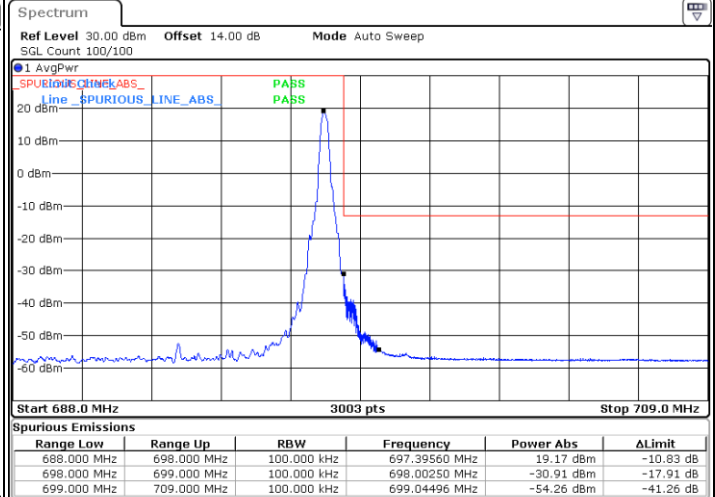


LTE Band 71 / 10MHz / 64QAM

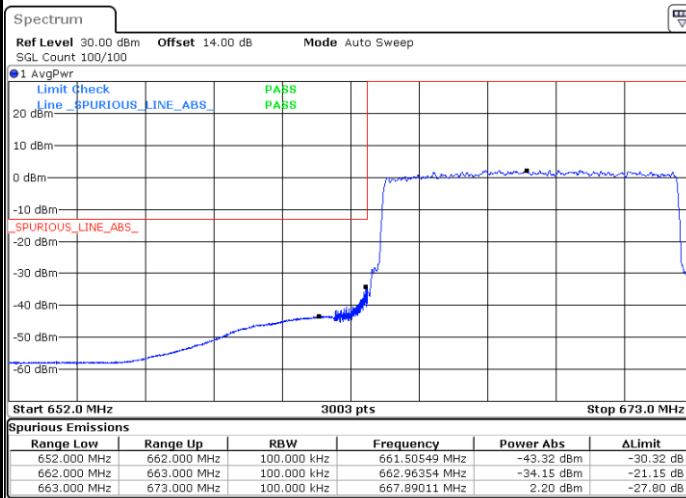
Lowest Band Edge / 1RB



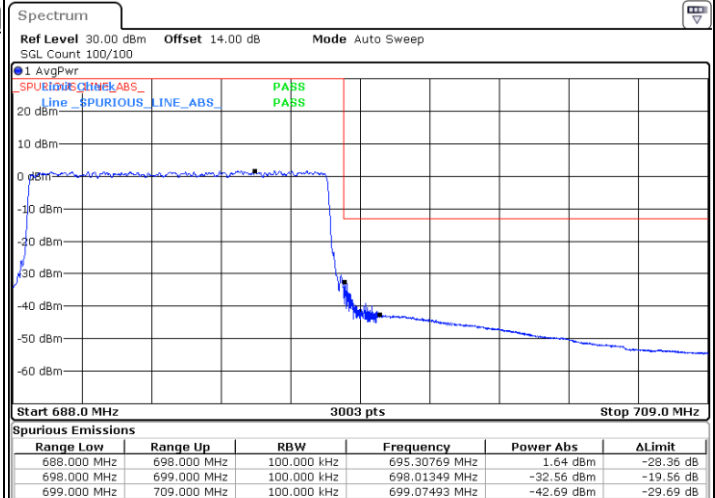
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



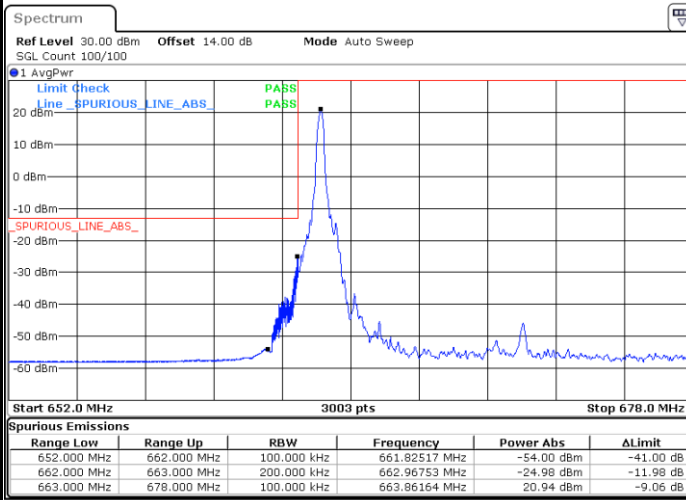
Highest Band Edge / Full RB





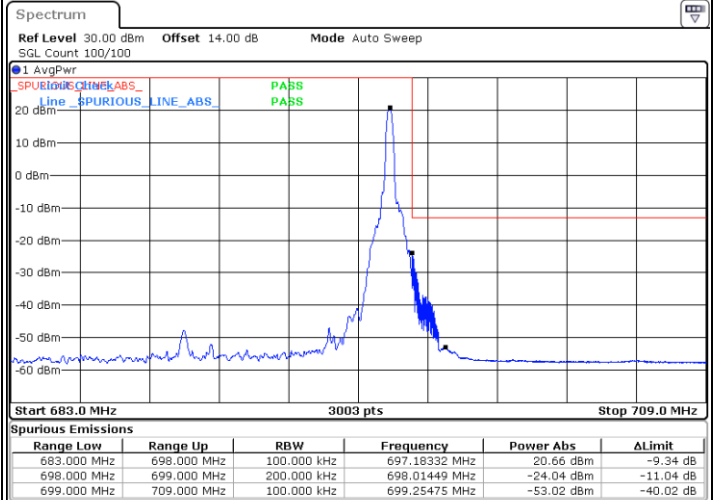
LTE Band 71 / 15MHz / QPSK

Lowest Band Edge / 1 RB



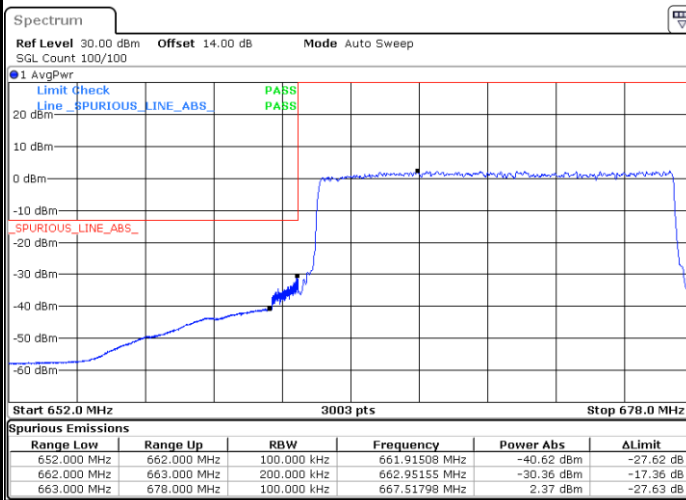
Date: 7.MAR.2024 07:53:43

Highest Band Edge / 1 RB



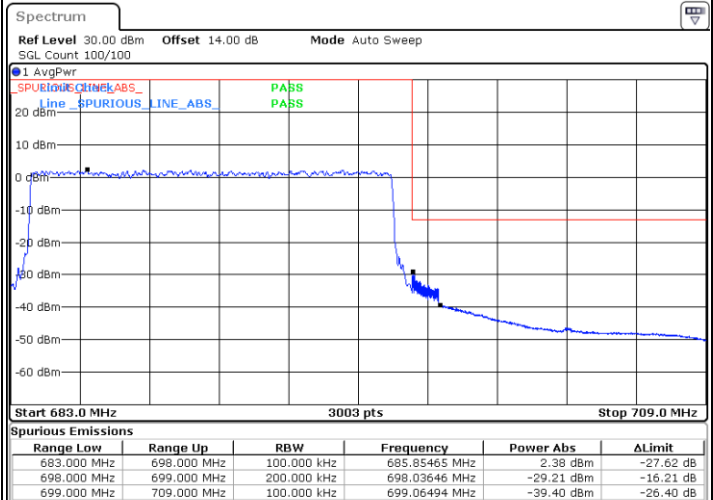
Date: 7.MAR.2024 08:03:56

Lowest Band Edge / Full RB



Date: 7.MAR.2024 07:56:54

Highest Band Edge / Full RB

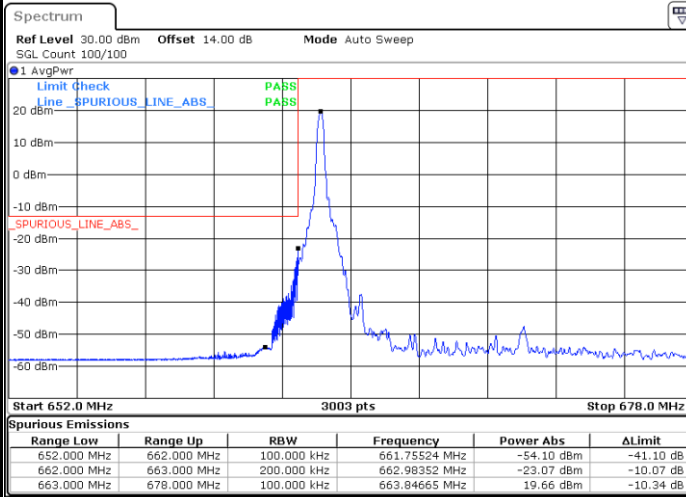


Date: 7.MAR.2024 08:07:08



LTE Band 71 / 15MHz / 16QAM

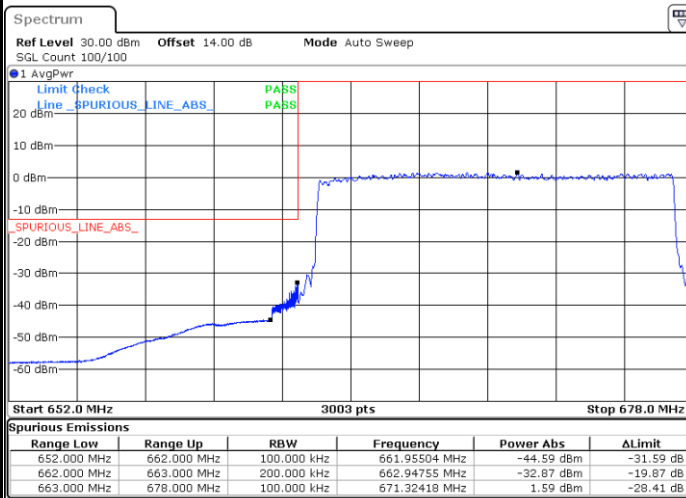
Lowest Band Edge / 1RB



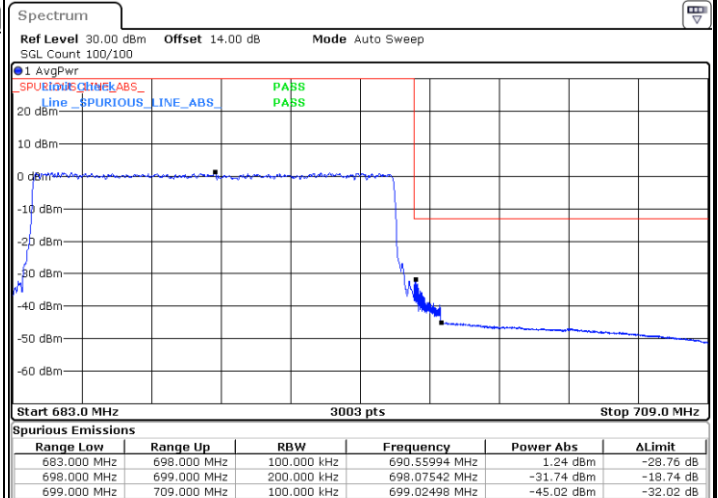
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



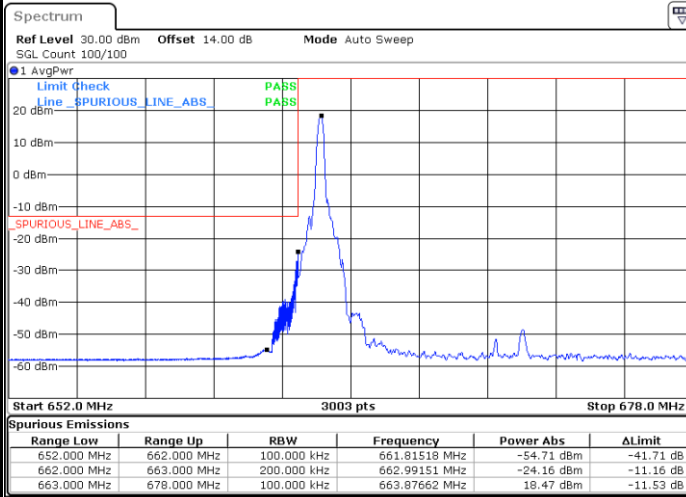
Highest Band Edge / Full RB



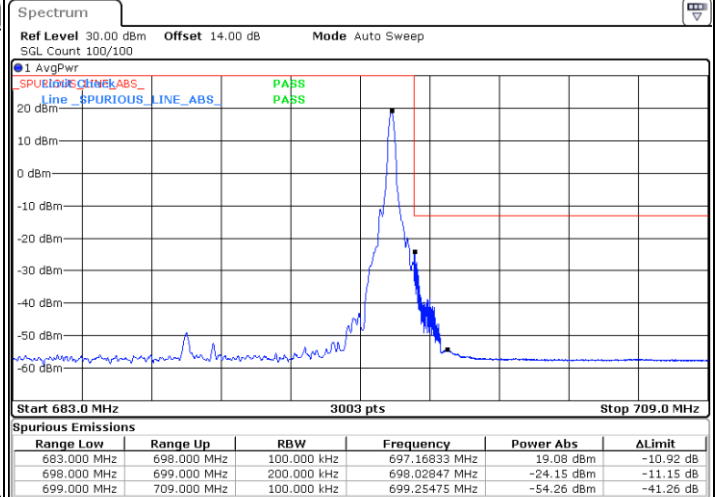


LTE Band 71 / 15MHz / 64QAM

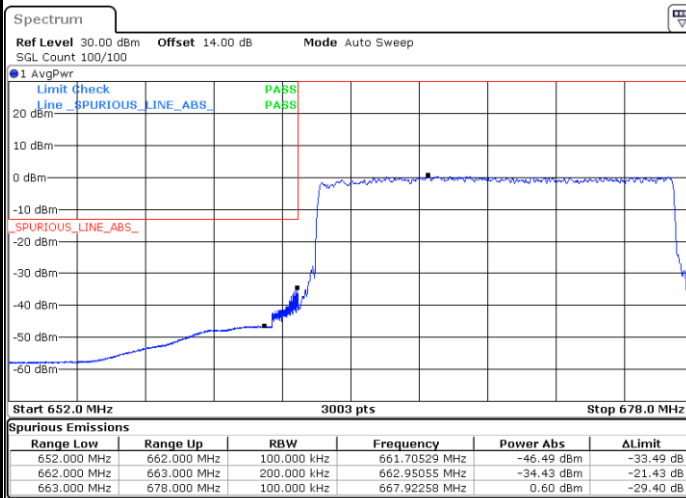
Lowest Band Edge / 1RB



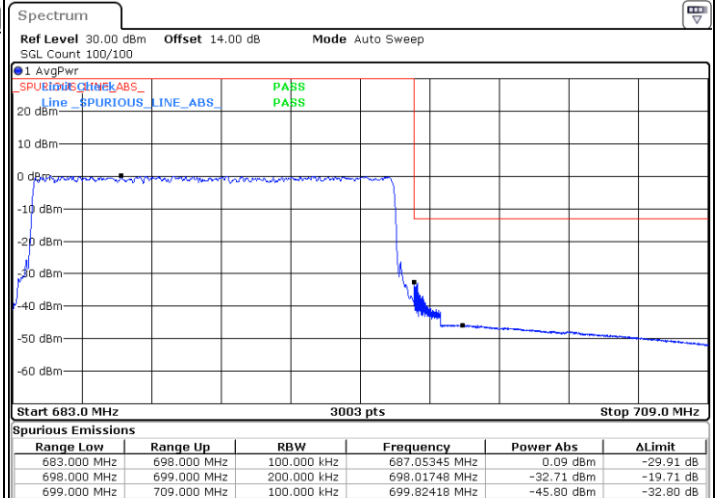
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



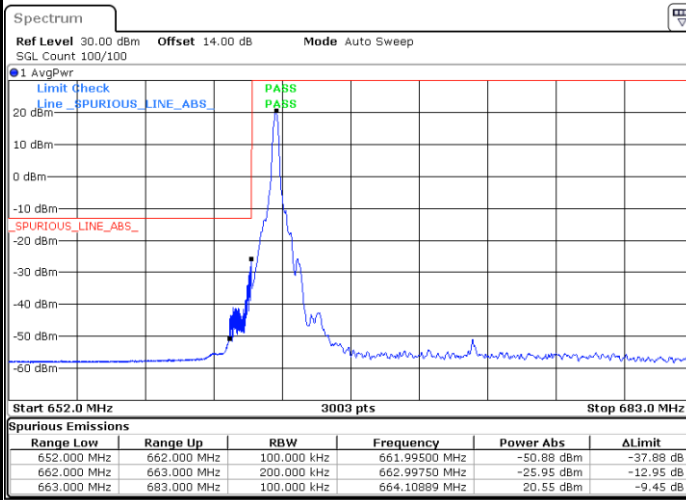
Highest Band Edge / Full RB



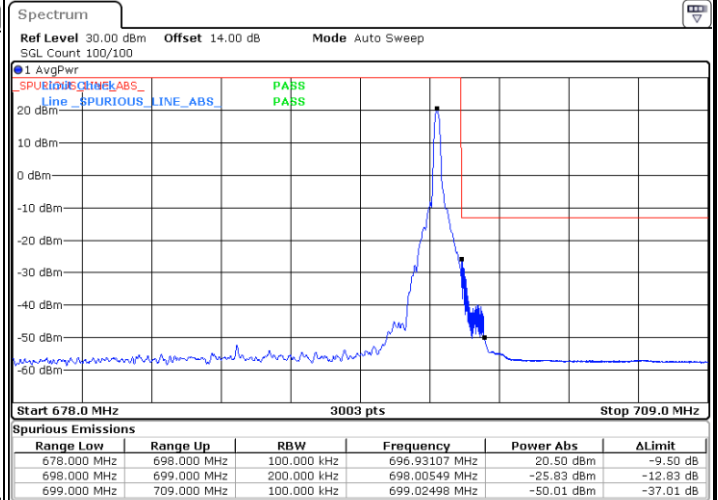


LTE Band 71 / 20MHz / QPSK

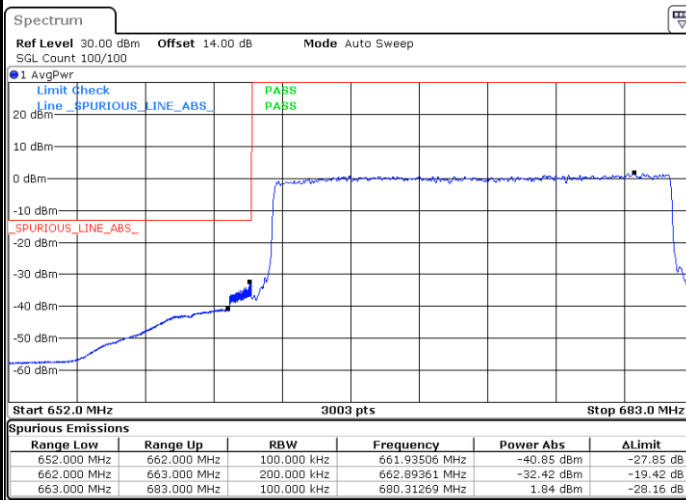
Lowest Band Edge / 1 RB



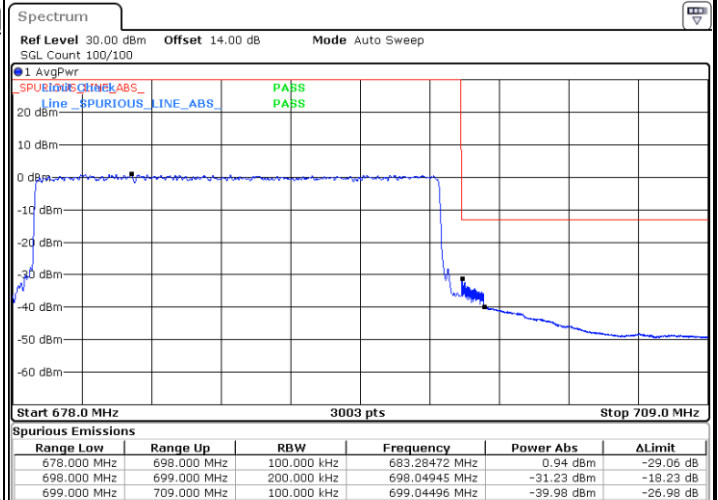
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



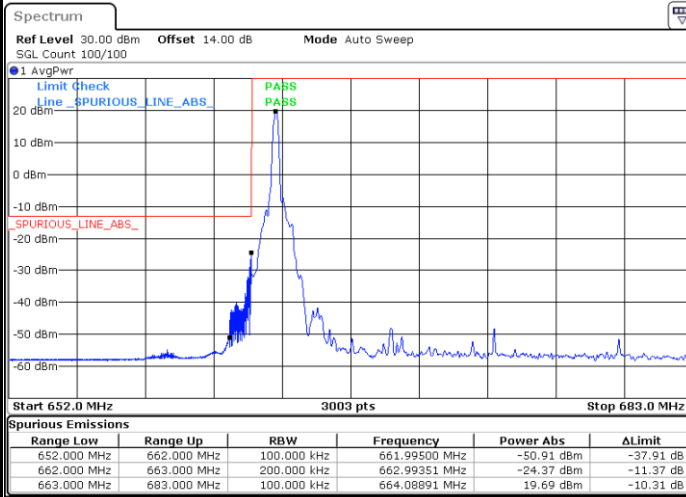
Highest Band Edge / Full RB





LTE Band 71 / 20MHz / 16QAM

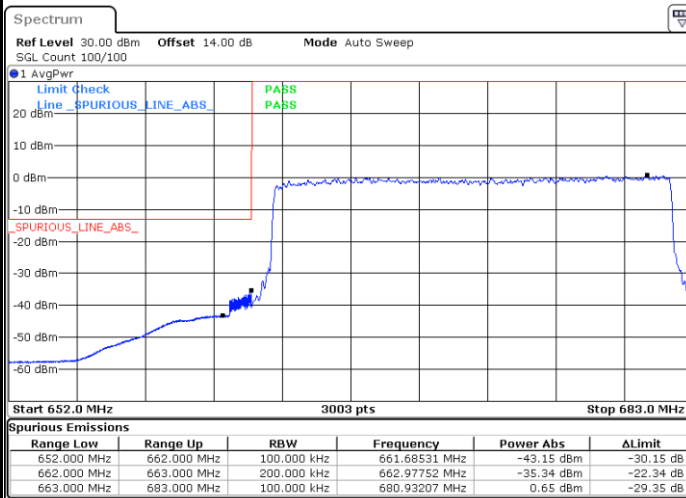
Lowest Band Edge / 1RB



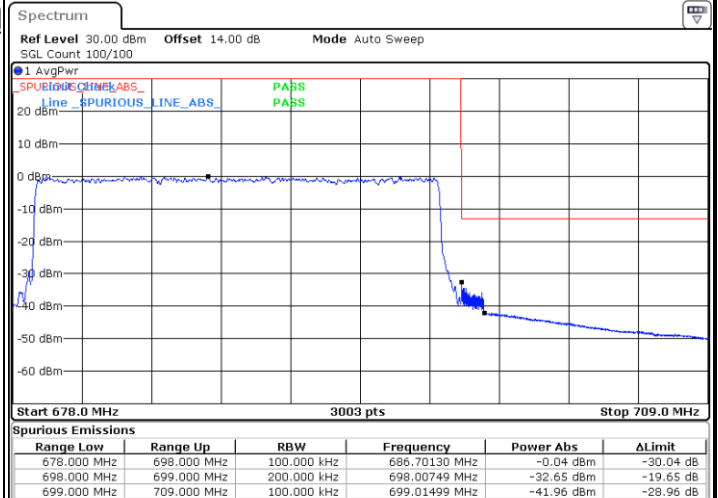
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



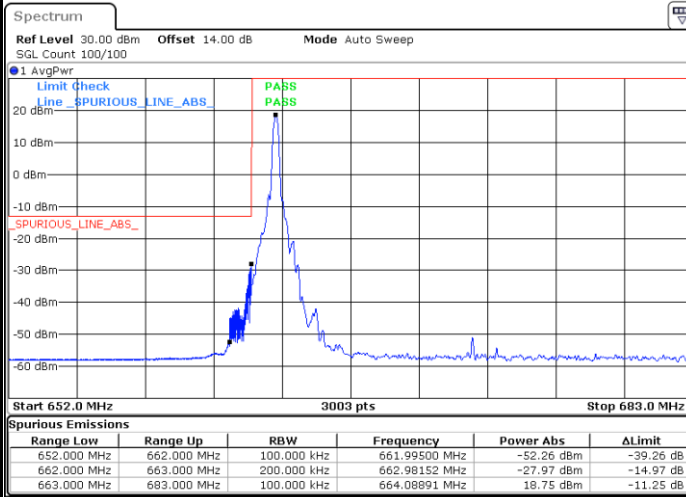
Highest Band Edge / Full RB



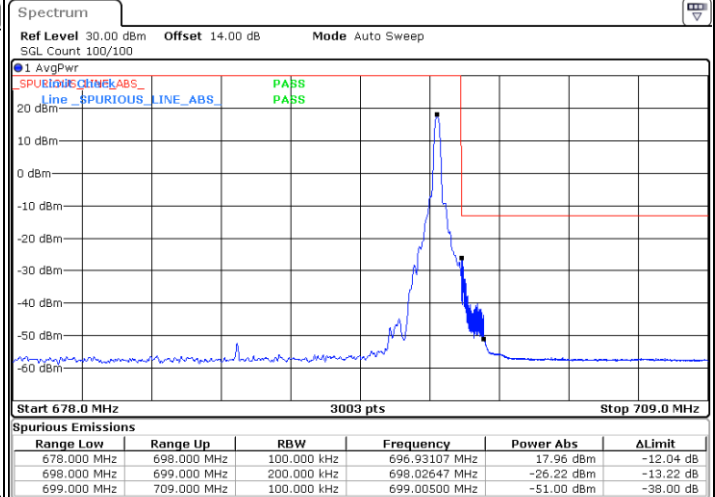


LTE Band 71 / 20MHz / 64QAM

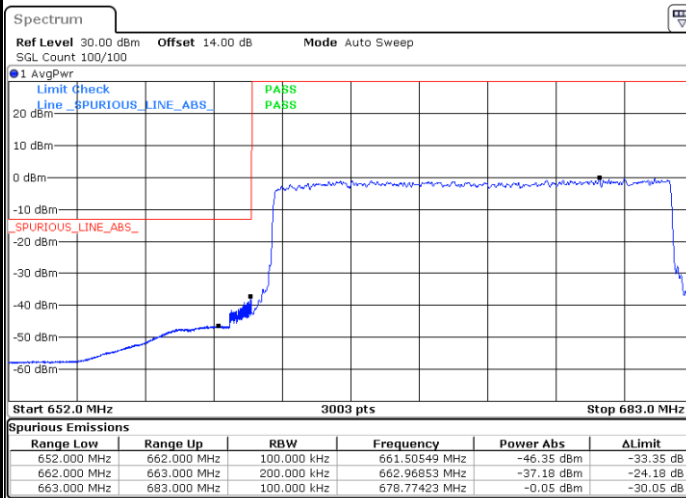
Lowest Band Edge / 1RB



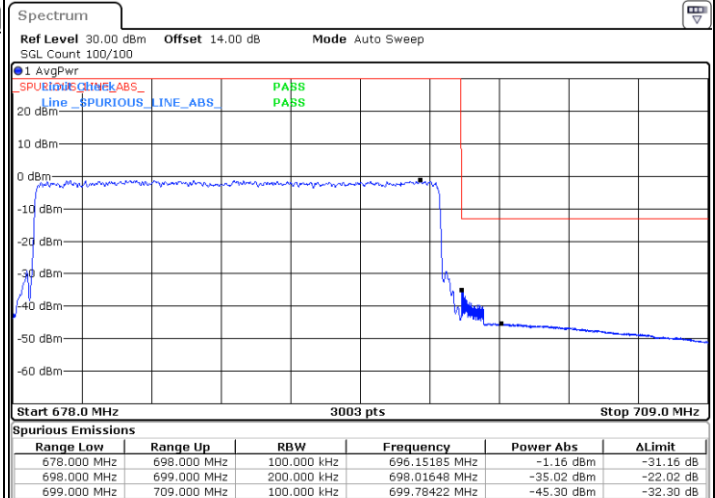
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

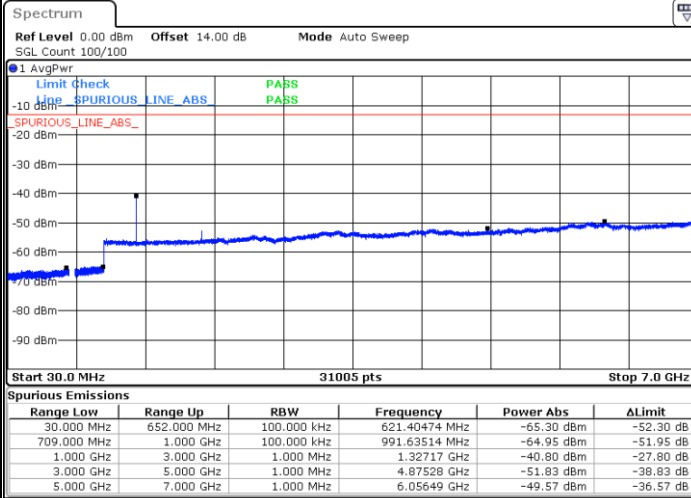




Conducted Spurious Emission

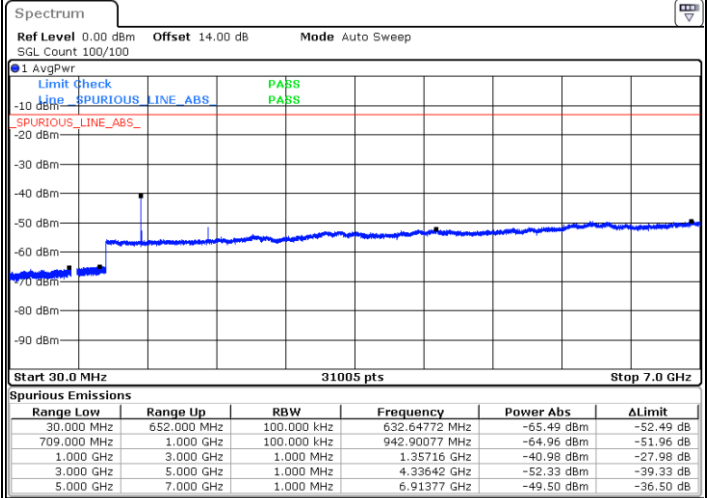
LTE Band 71 / 5MHz

Lowest Channel / QPSK



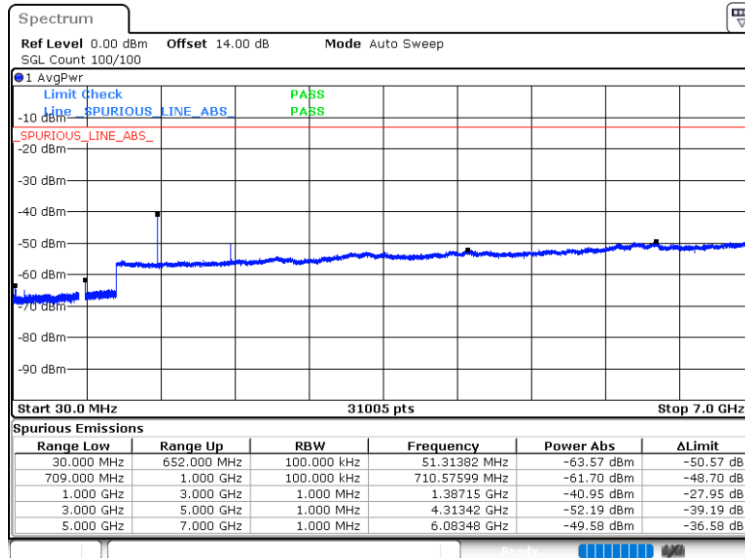
Date: 7.MAR.2024 07:24:21

Middle Channel / QPSK



Date: 7.MAR.2024 07:25:34

Highest Channel / QPSK

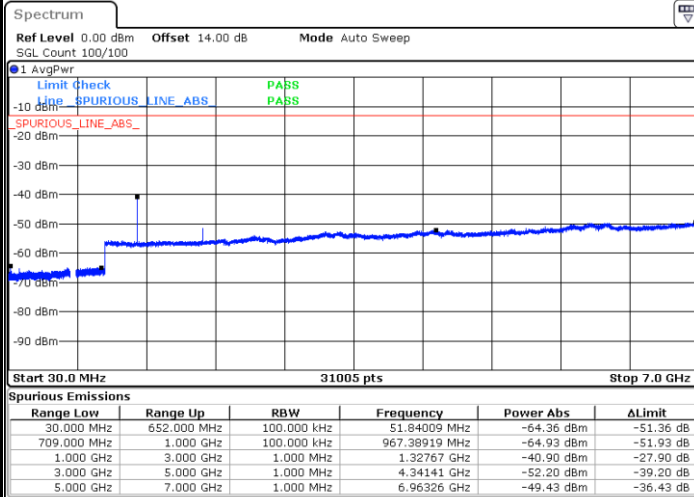


Date: 7.MAR.2024 07:34:38



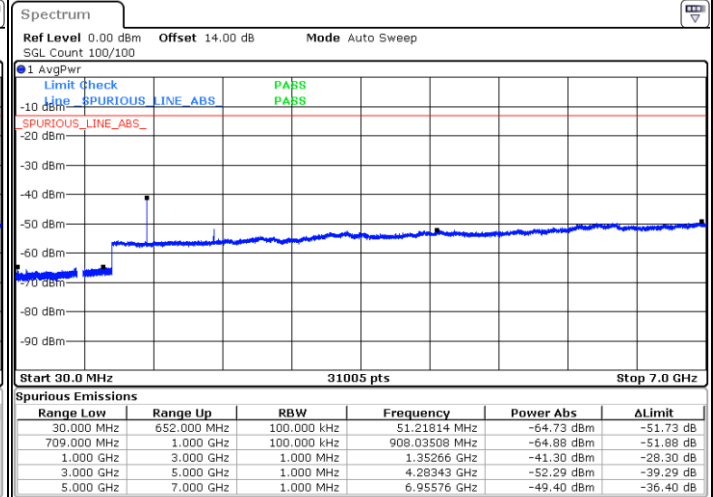
LTE Band 71 / 10MHz

Lowest Channel / QPSK



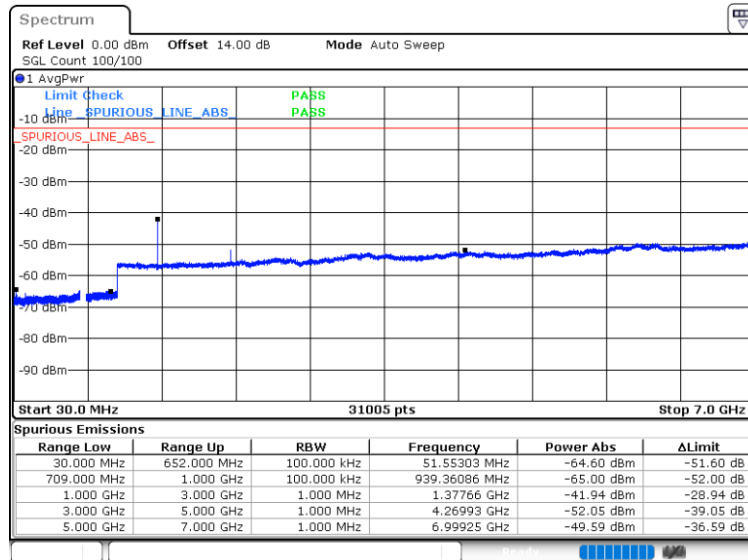
Date: 7.MAR.2024 07:42:21

Middle Channel / QPSK



Date: 7.MAR.2024 07:43:34

Highest Channel / QPSK

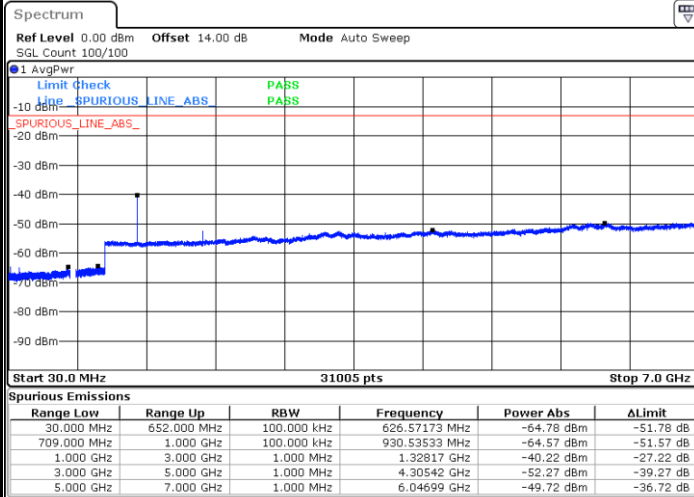


Date: 7.MAR.2024 07:52:34



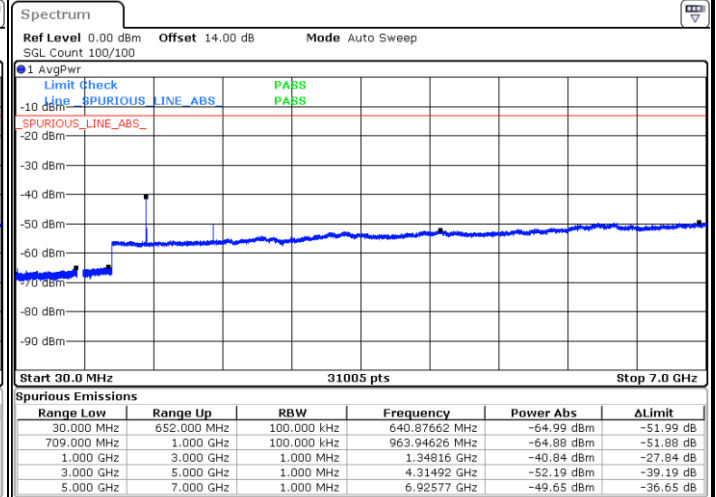
LTE Band 71 / 15MHz

Lowest Channel / QPSK



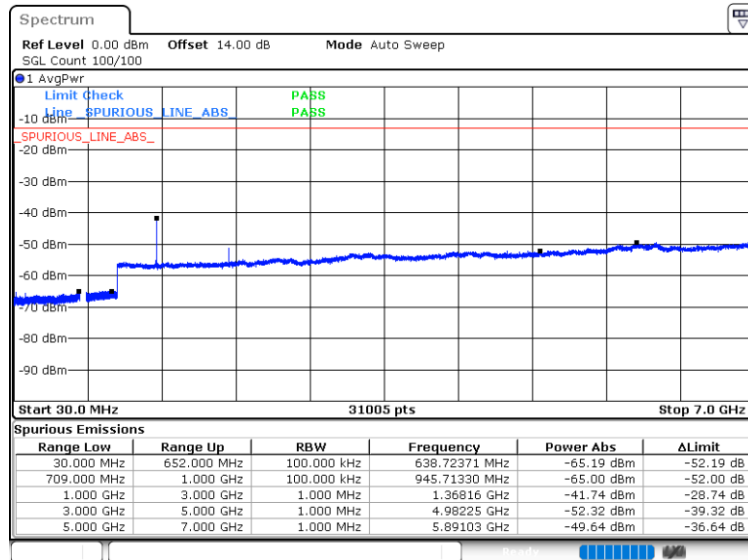
Date: 7.MAR.2024 08:00:15

Middle Channel / QPSK



Date: 7.MAR.2024 08:01:27

Highest Channel / QPSK

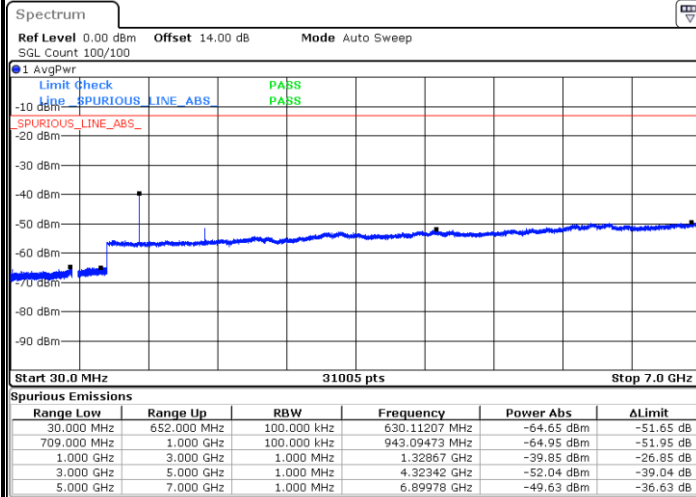


Date: 7.MAR.2024 08:10:28



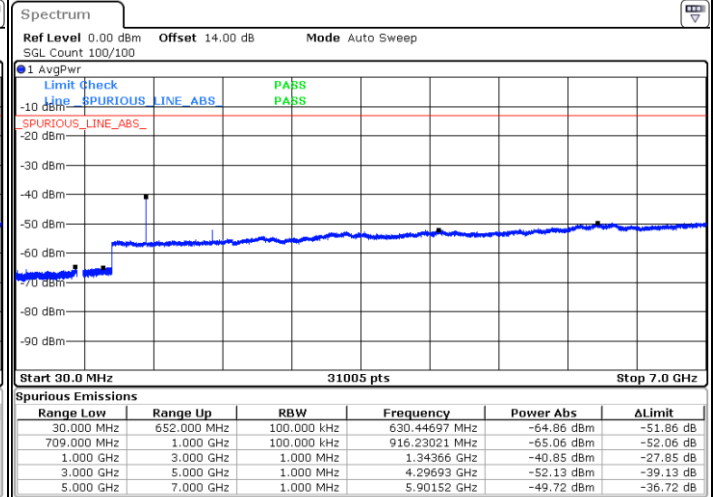
LTE Band 71 / 20MHz

Lowest Channel / QPSK



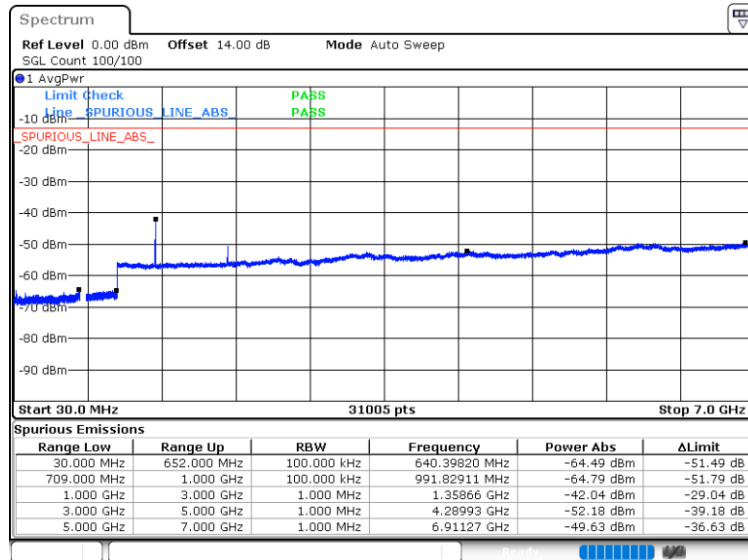
Date: 7.MAR.2024 08:18:15

Middle Channel / QPSK



Date: 7.MAR.2024 08:19:27

Highest Channel / QPSK



Date: 7.MAR.2024 08:30:02

Frequency Stability

Test Conditions		LTE Band 71 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0002	PASS
40	Normal Voltage	0.0001	
30	Normal Voltage	0.0001	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0004	
0	Normal Voltage	0.0004	
-10	Normal Voltage	0.0007	
-20	Normal Voltage	0.0009	
-30	Normal Voltage	0.0007	
20	Maximum Voltage	0.0004	
20	Normal Voltage	0.0000	
20	Minimum Voltage	0.0005	

Note:

1. Normal Voltage = 4.0 V. ; Minimum Voltage = 3.4 V. ; Maximum Voltage = 4.2 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 41

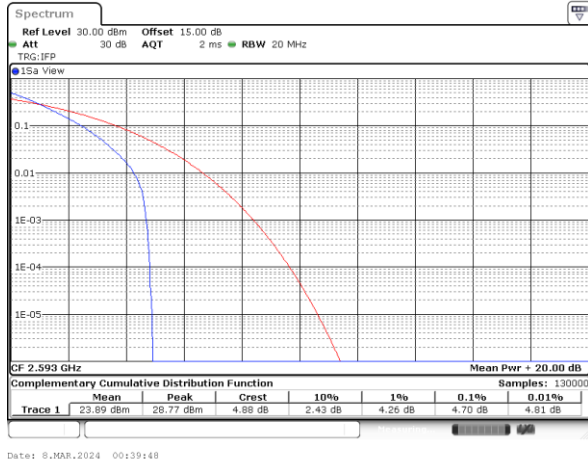
Peak-to-Average Ratio

Mode	LTE Band 41 / 20MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	4.70	5.91	6.58	PASS



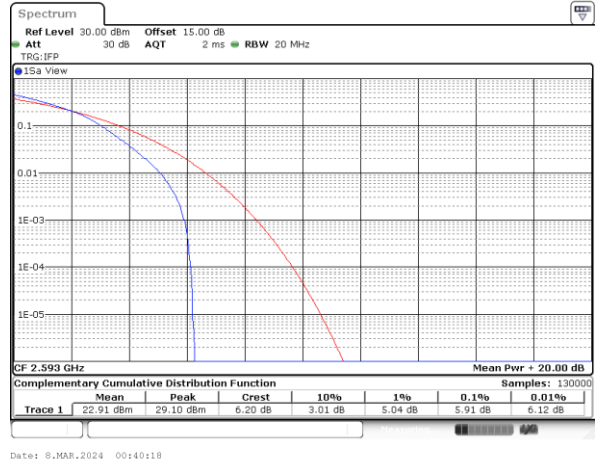
LTE Band 41 / 20MHz / QPSK

Middle Channel / Full RB



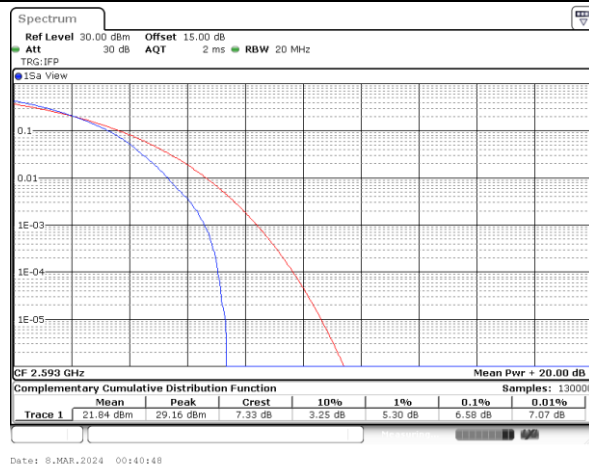
LTE Band 41 / 20MHz / 16QAM

Middle Channel / Full RB



LTE Band 41 / 20MHz / 64QAM

Middle Channel / Full RB





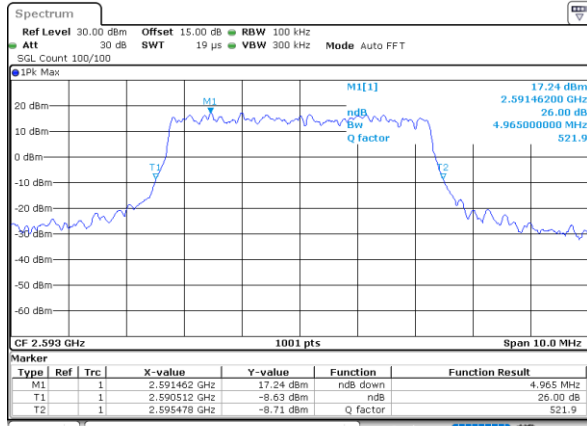
26dB Bandwidth

Mode	LTE Band 41 : 26dB BW(MHz)							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	4.97	4.85	9.81	9.59	14.12	15.02	19.42	18.90



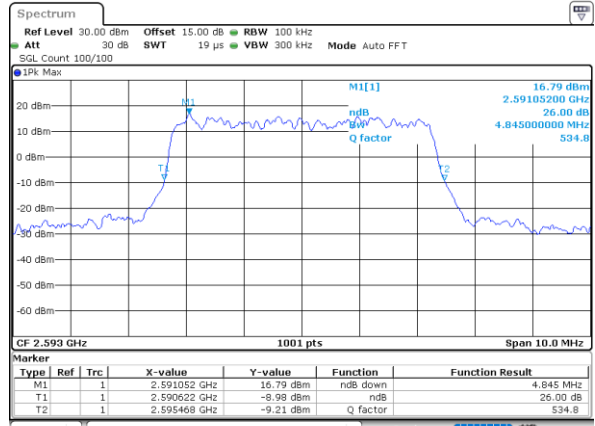
LTE Band 41

Middle Channel / 5MHz / QPSK



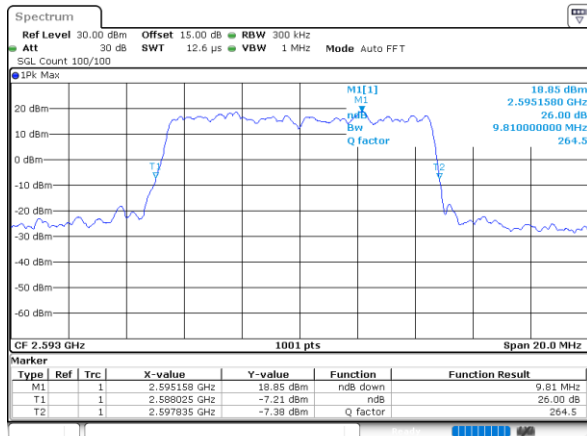
Date: 7,MAR,2024 23:43:56

Middle Channel / 5MHz / 16QAM



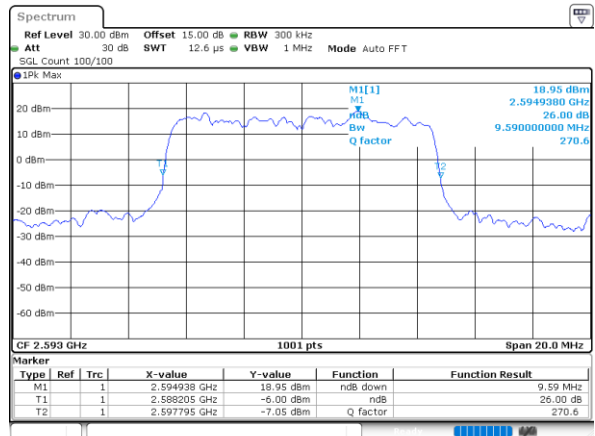
Date: 7,MAR,2024 23:44:42

Middle Channel / 10MHz / QPSK



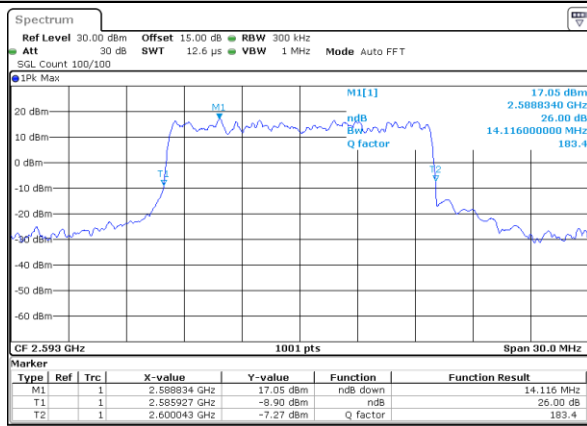
Date: 8,MAR,2024 00:02:21

Middle Channel / 10MHz / 16QAM



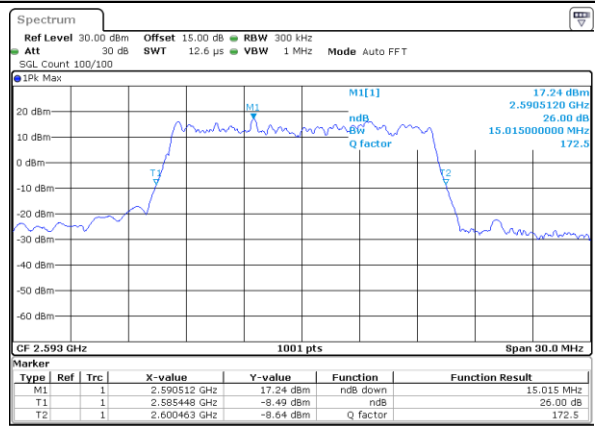
Date: 8,MAR,2024 00:03:04

Middle Channel / 15MHz / QPSK



Date: 8,MAR,2024 00:02:23

Middle Channel / 15MHz / 16QAM

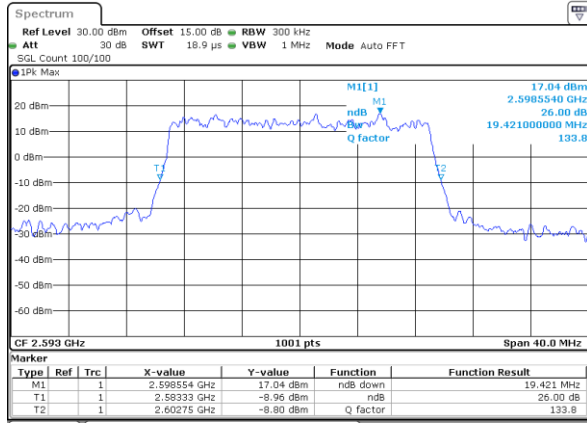


Date: 8,MAR,2024 00:21:06



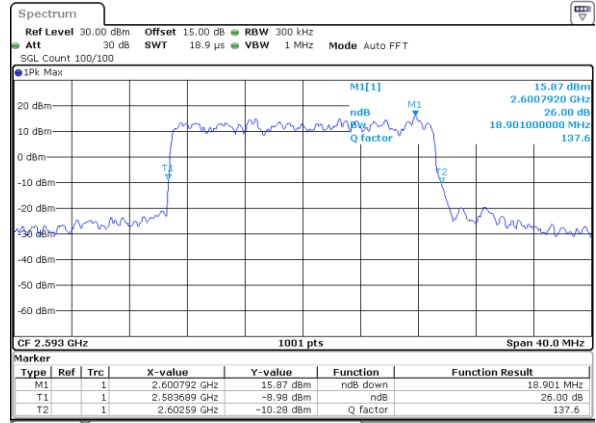
LTE Band 41

Middle Channel / 20MHz / QPSK



Date: 8.MAR.2024 00:13:15

Middle Channel / 20MHz / 16QAM



Date: 8.MAR.2024 00:13:18



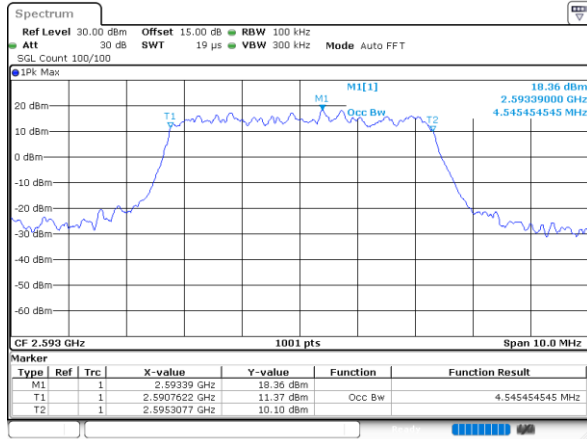
Occupied Bandwidth

Mode	LTE Band 41 : 99%OBW(MHz)							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	4.55	4.49	9.01	9.13	13.49	13.40	17.90	17.86

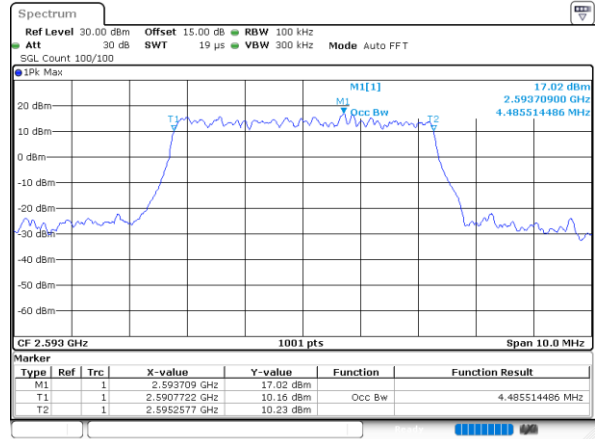


LTE Band 41

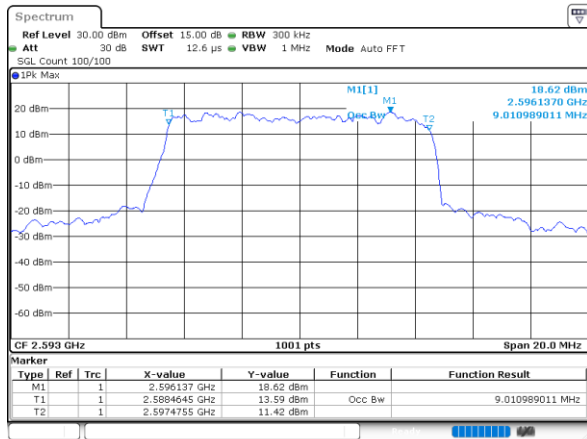
Middle Channel / 5MHz / QPSK



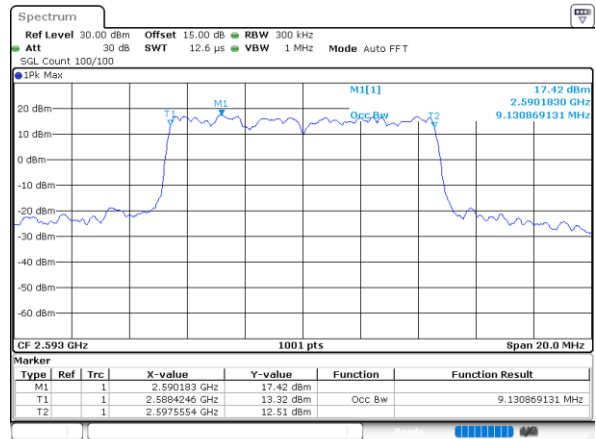
Middle Channel / 5MHz / 16QAM



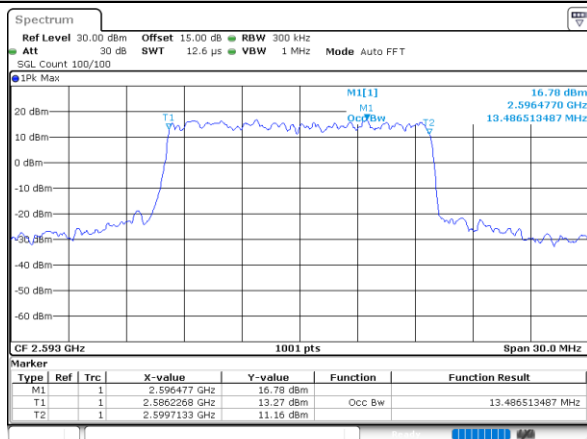
Middle Channel / 10MHz / QPSK



Middle Channel / 10MHz / 16QAM



Middle Channel / 15MHz / QPSK



Middle Channel / 15MHz / 16QAM

