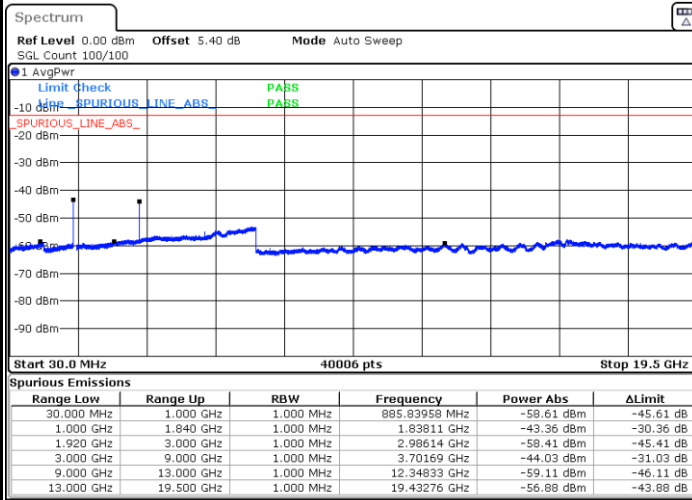




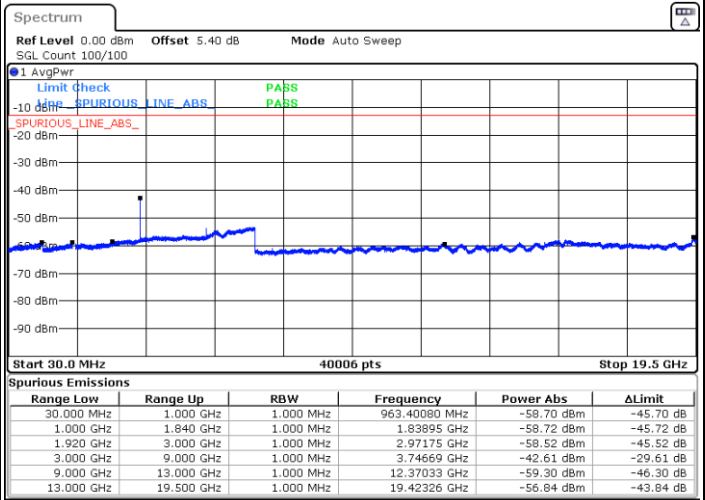
LTE Band 2 / 15MHz

Lowest Channel / QPSK



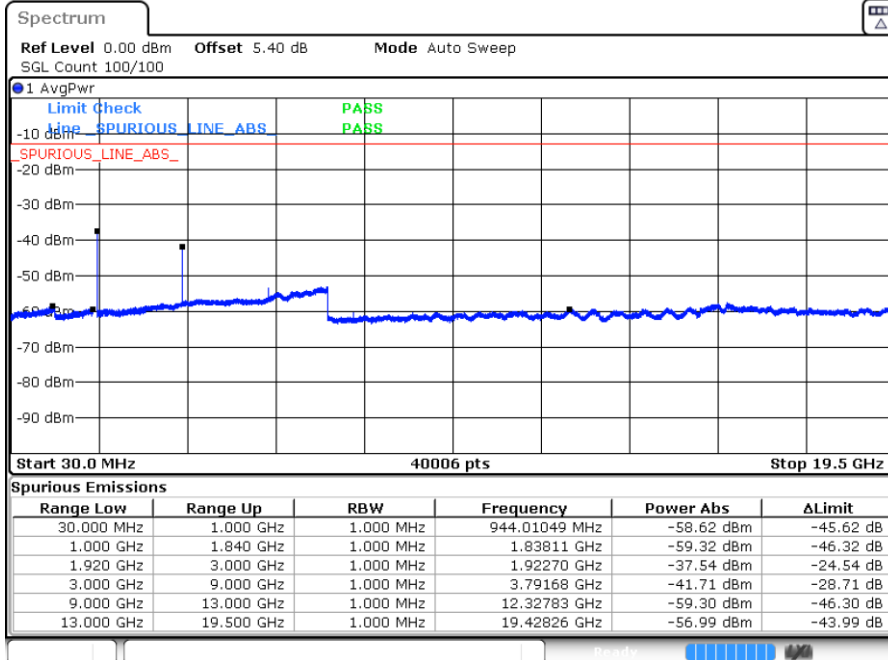
Date: 15 FEB 2023 21:41:09

Middle Channel / QPSK



Date: 15 FEB 2023 21:48:39

Highest Channel / QPSK

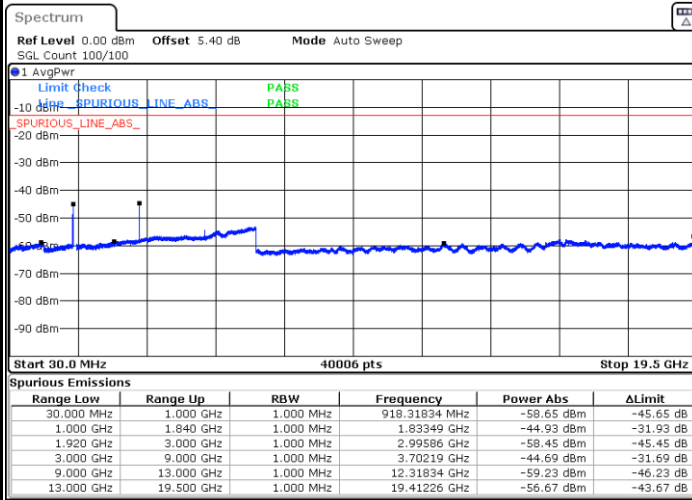


Date: 15.FEB.2023 21:49:58



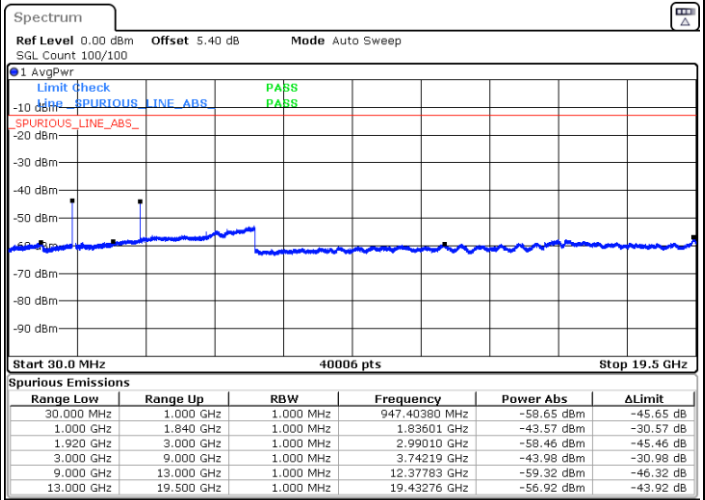
LTE Band 2 / 20MHz

Lowest Channel / QPSK



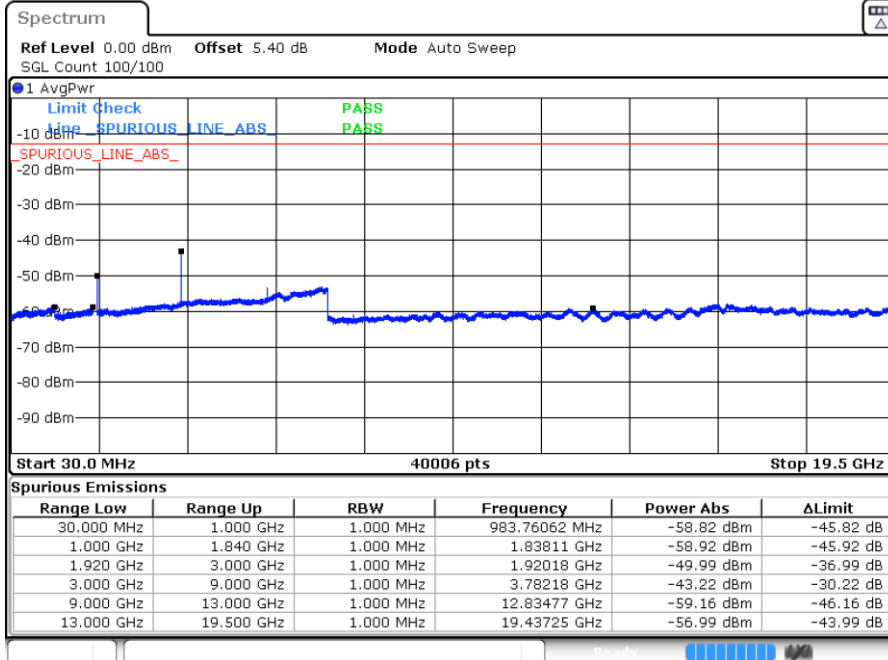
Date: 15 FEB 2023 21:56:47

Middle Channel / QPSK



Date: 15 FEB 2023 22:04:18

Highest Channel / QPSK



Date: 15.FEB.2023 22:05:37

Frequency Stability

Test Conditions		LTE Band 2 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0025	PASS
40	Normal Voltage	0.0042	
30	Normal Voltage	0.0031	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0006	
0	Normal Voltage	0.0046	
-10	Normal Voltage	0.0004	
-20	Normal Voltage	0.0007	
-30	Normal Voltage	0.0012	
20	Maximum Voltage	0.0017	
20	Normal Voltage	0.0024	
20	End Point	0.0008	

Note:

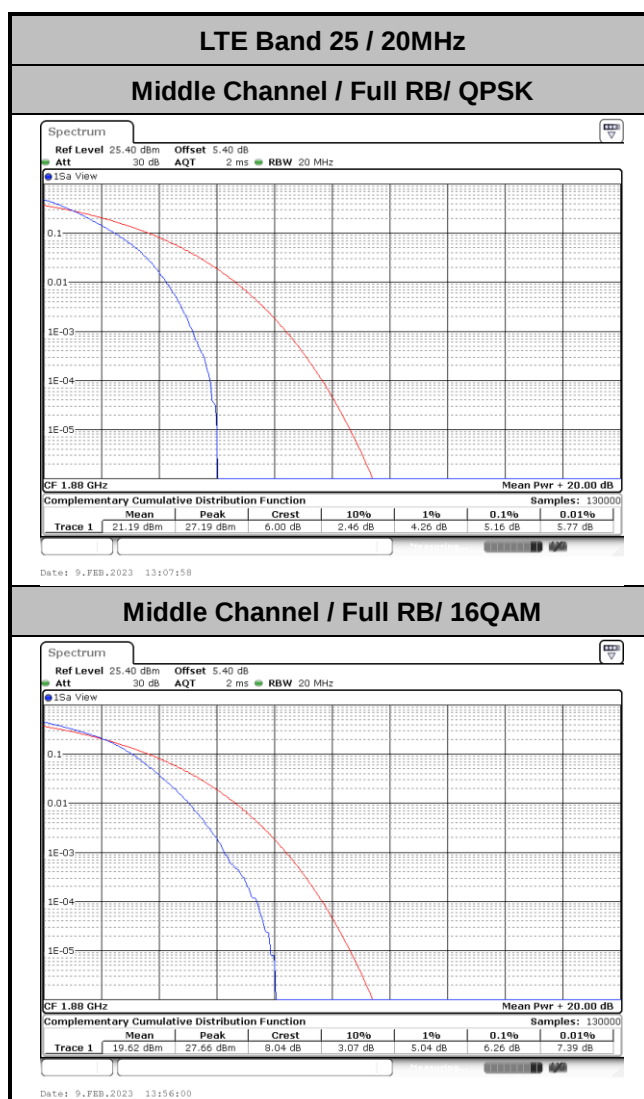
1. Normal Voltage = 3.8 V. ; End Point (BEP) =3.3 V. ; Maximum Voltage = 4.3 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 25

Peak-to-Average Ratio

Mode	LTE Band 25 / 20MHz		
Mod.	QPSK	16QAM	Limit: 13dB
RB Size	Full RB	Full RB	Result
Middle CH	5.16	6.26	PASS



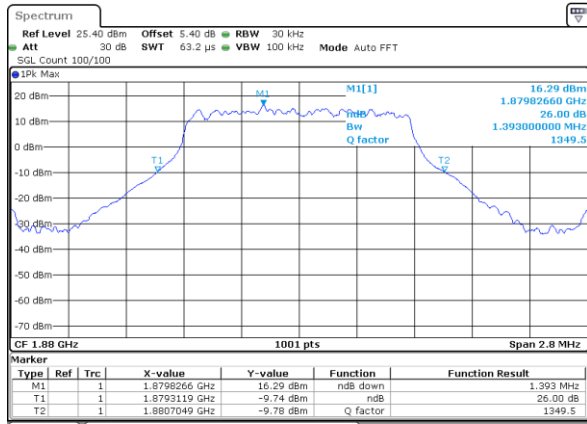
**26dB Bandwidth**

Mode	LTE Band 25 : 26dB BW(MHz)	
BW	1.4MHz	
Mod.	QPSK	16QAM
Middle CH	1.39	1.42
BW	3MHz	
Mod.	QPSK	16QAM
Middle CH	3.03	2.97
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	4.85	5.05
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.65	6.11
BW	15MHz	
Mod.	QPSK	16QAM
Middle CH	15.64	7.40
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	19.58	7.23



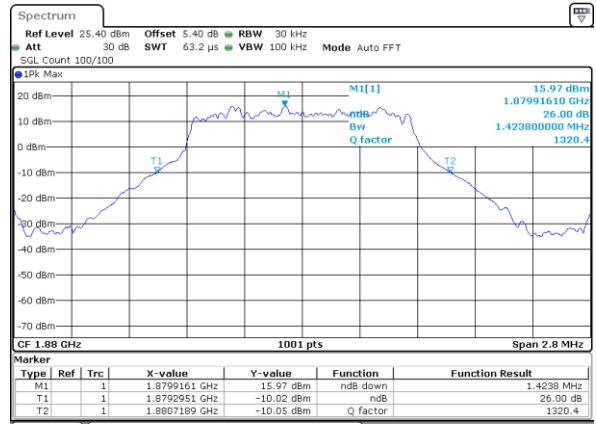
LTE Band 25

Middle Channel / 1.4MHz / QPSK



Date: 9.FEB.2023 10:10:08

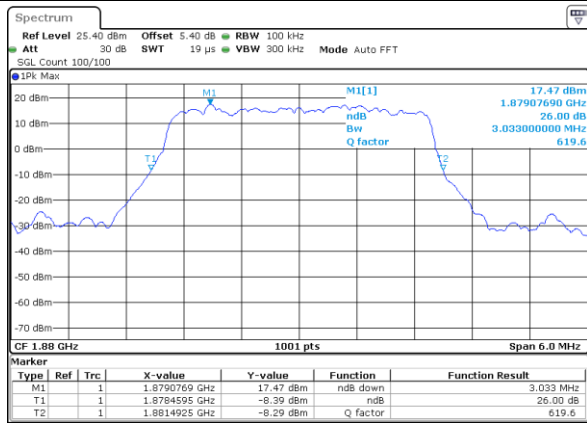
Middle Channel / 1.4MHz / 16QAM



Date: 9.FEB.2023 10:10:29

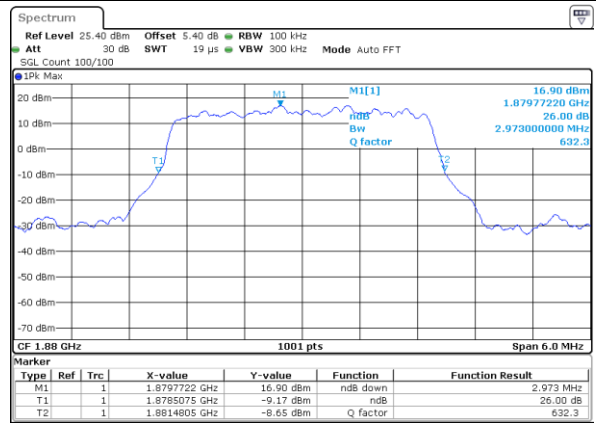
LTE Band 25

Middle Channel / 3MHz / QPSK



Date: 9.FEB.2023 10:29:07

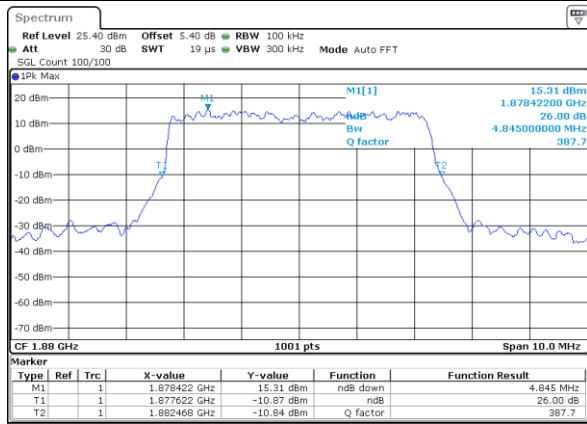
Middle Channel / 3MHz / 16QAM



Date: 9.FEB.2023 10:29:50

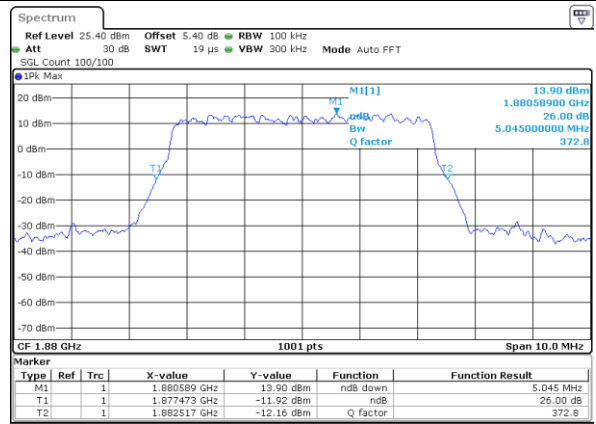
LTE Band 25

Middle Channel / 5MHz / QPSK



Date: 9.FEB.2023 10:49:27

Middle Channel / 5MHz / 16QAM

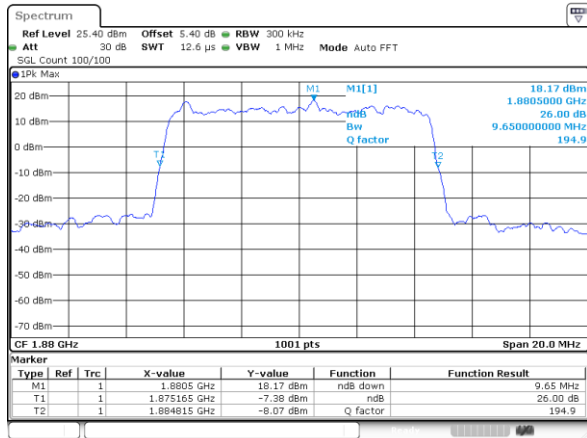


Date: 9.FEB.2023 10:49:49



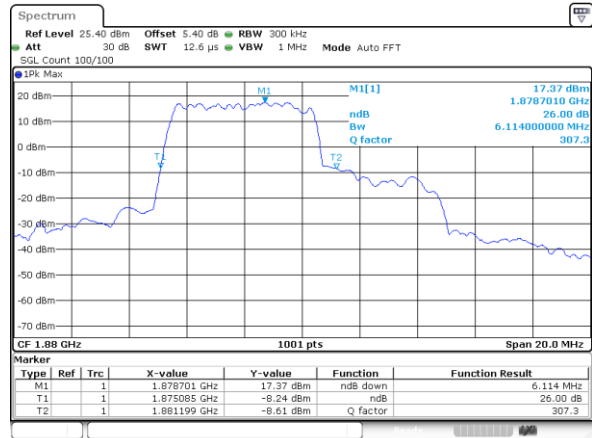
LTE Band 25

Middle Channel / 10MHz / QPSK



Date: 9.FEB.2023 11:08:25

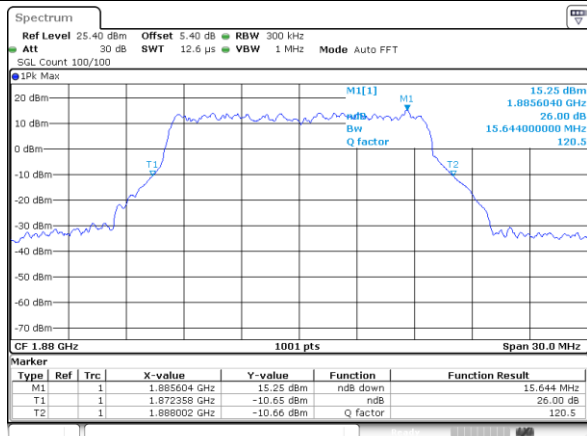
Middle Channel / 10MHz / 16QAM



Date: 9.FEB.2023 13:45:18

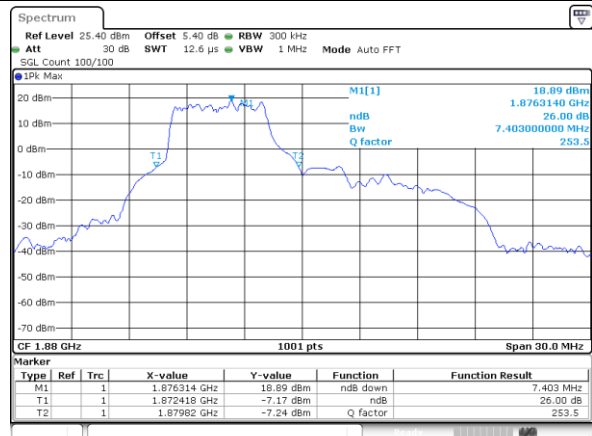
LTE Band 25

Middle Channel / 15MHz / QPSK



Date: 9.FEB.2023 12:51:21

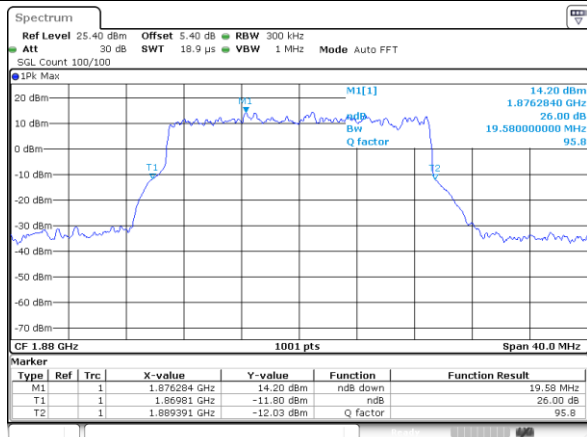
Middle Channel / 15MHz / 16QAM



Date: 9.FEB.2023 13:51:13

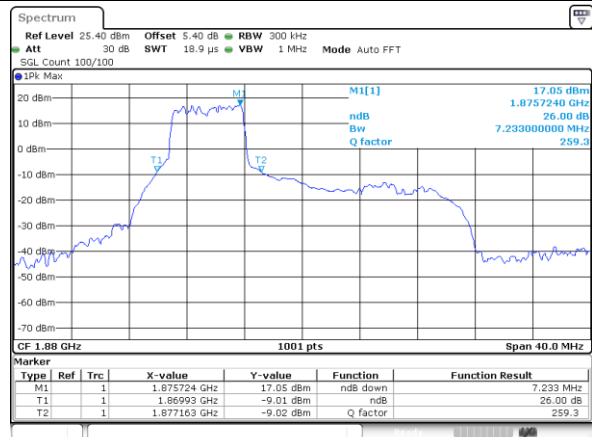
LTE Band 25

Middle Channel / 20MHz / QPSK



Date: 9.FEB.2023 13:02:52

Middle Channel / 20MHz / 16QAM



Date: 9.FEB.2023 13:54:54

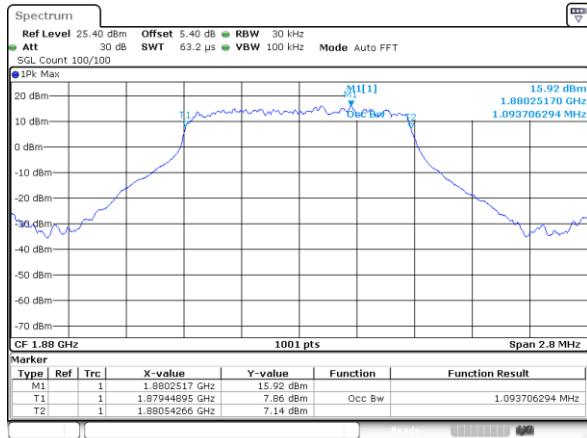
**Occupied Bandwidth**

Mode	LTE Band 25 : 99%OBW(MHz)	
BW	1.4MHz	
Mod.	QPSK	16QAM
Middle CH	1.09	1.10
BW	3MHz	
Mod.	QPSK	16QAM
Middle CH	2.74	2.69
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	4.47	4.48
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	8.97	5.11
BW	15MHz	
Mod.	QPSK	16QAM
Middle CH	13.49	5.60
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	17.78	5.19

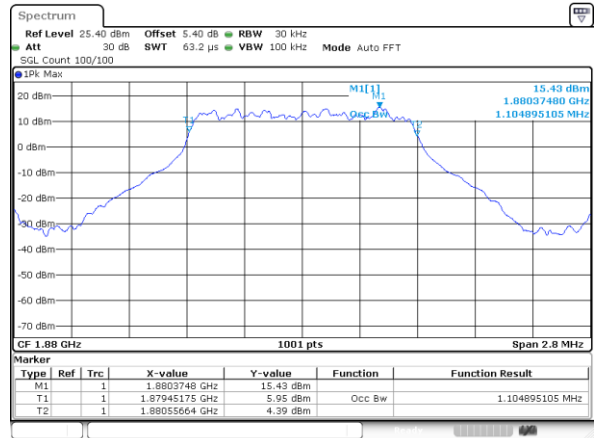


LTE Band 25

Middle Channel / 1.4MHz / QPSK

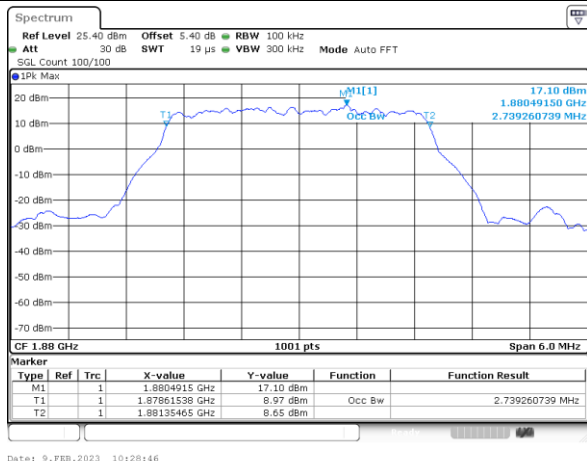


Middle Channel / 1.4MHz / 16QAM

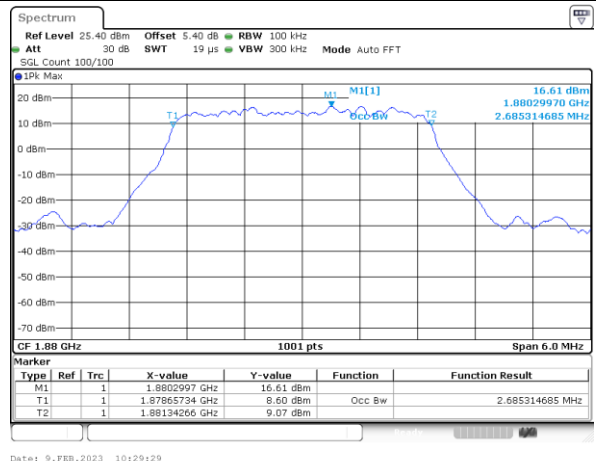


LTE Band 25

Middle Channel / 3MHz / QPSK

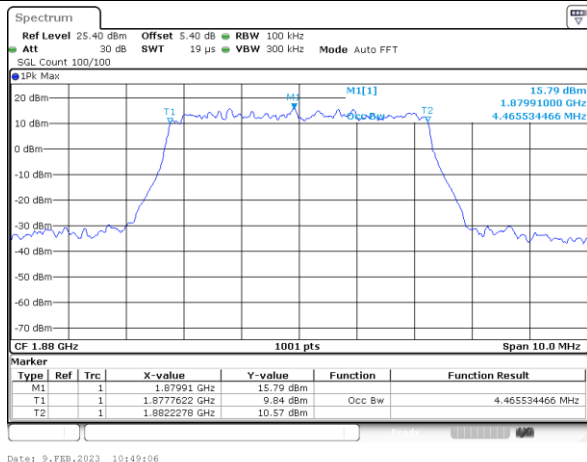


Middle Channel / 3MHz / 16QAM

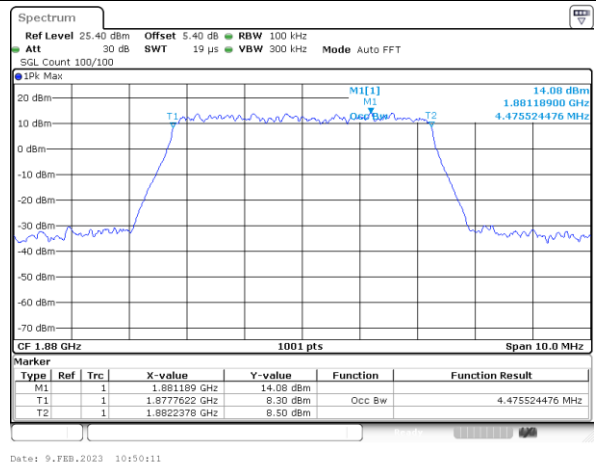


LTE Band 25

Middle Channel / 5MHz / QPSK



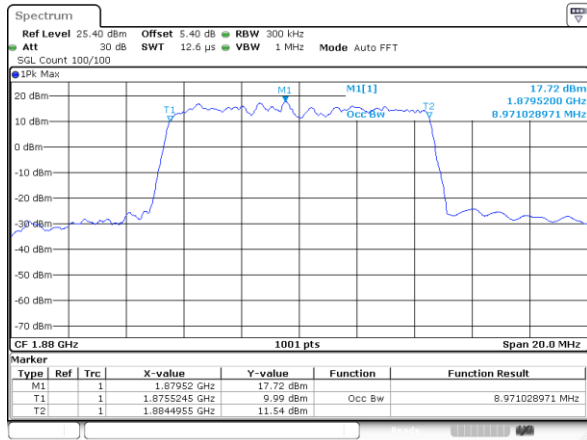
Middle Channel / 5MHz / 16QAM





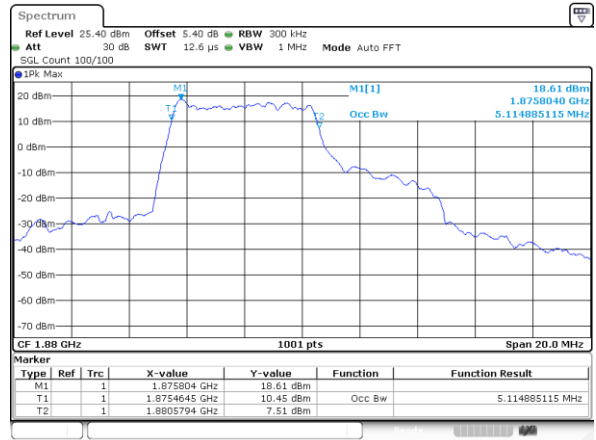
LTE Band 25

Middle Channel / 10MHz / QPSK



Date: 9.FEB.2023 11:08:04

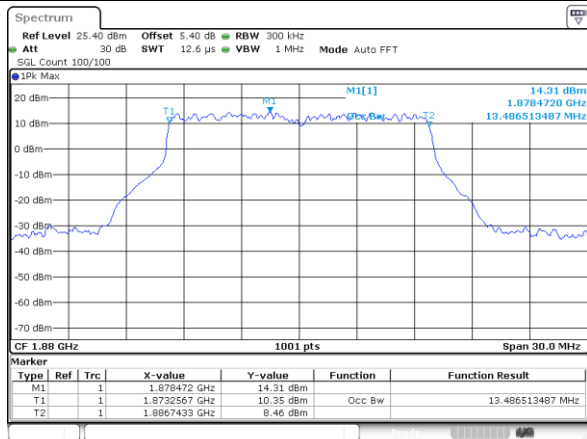
Middle Channel / 10MHz / 16QAM



Date: 9.FEB.2023 13:44:44

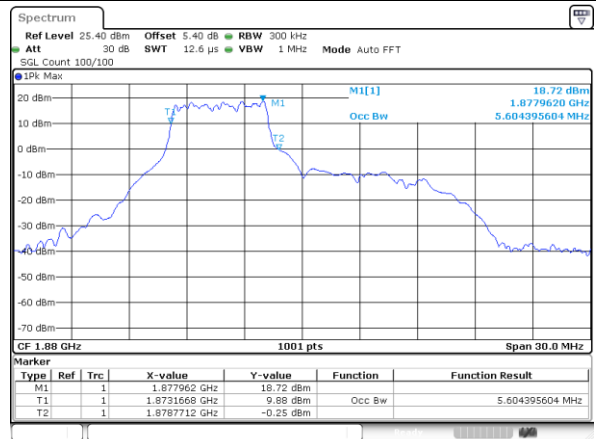
LTE Band 25

Middle Channel / 15MHz / QPSK



Date: 9.FEB.2023 12:51:00

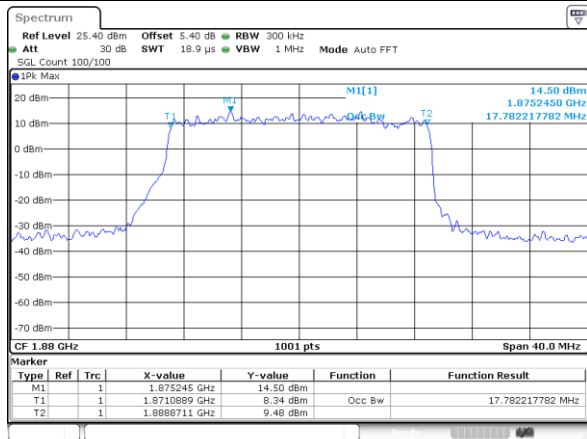
Middle Channel / 15MHz / 16QAM



Date: 9.FEB.2023 13:50:59

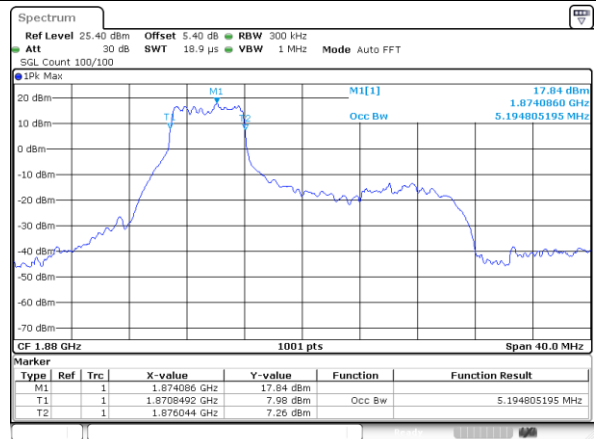
LTE Band 25

Middle Channel / 20MHz / QPSK



Date: 9.FEB.2023 13:02:30

Middle Channel / 20MHz / 16QAM



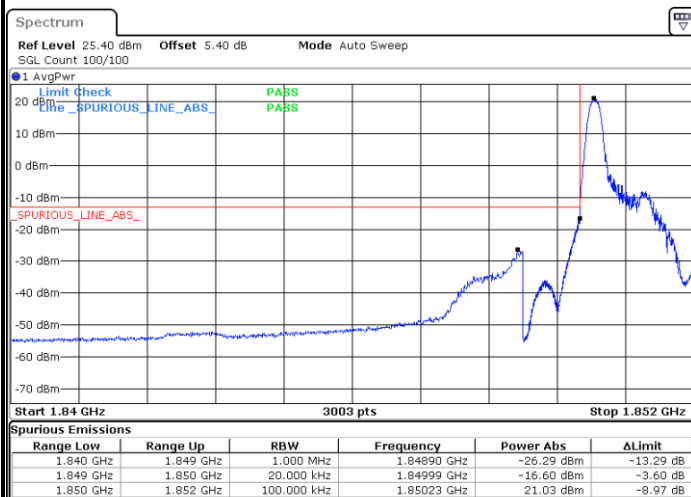
Date: 9.FEB.2023 13:54:43



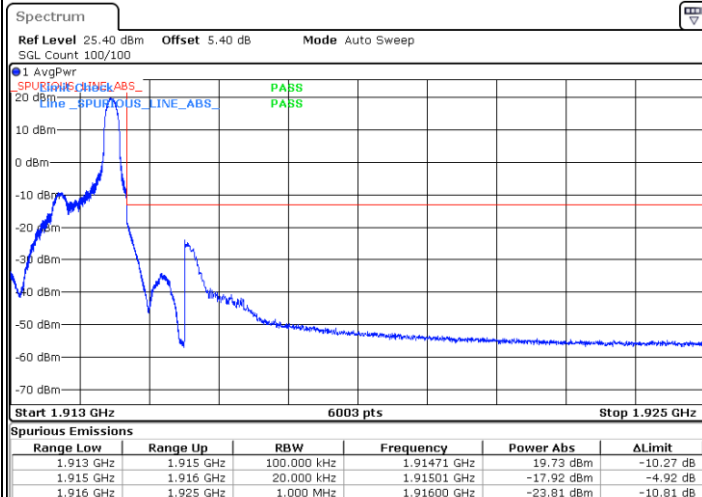
Conducted Band Edge

LTE Band 25 / 1.4MHz / QPSK

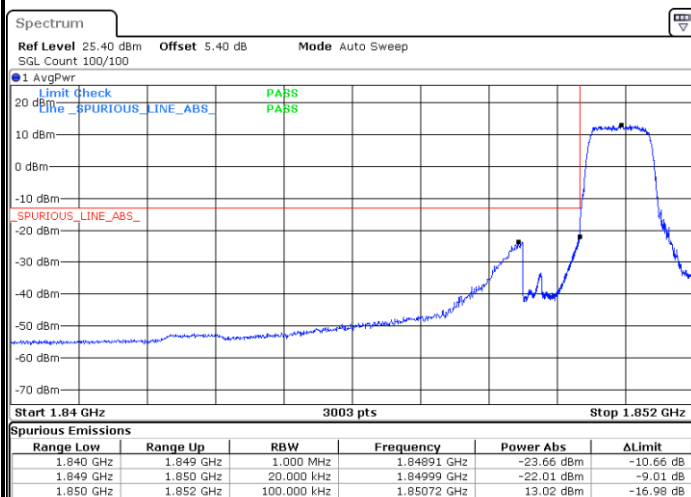
Lowest Band Edge / 1RB



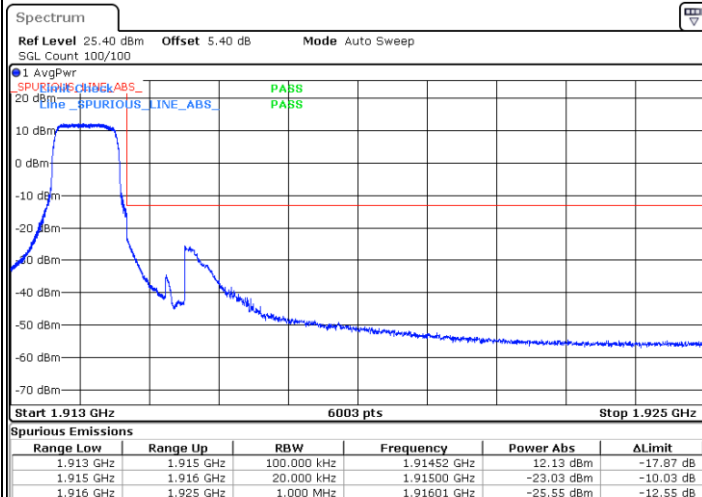
Highest Band Edge / 1RB



Lowest Band Edge / Full RB



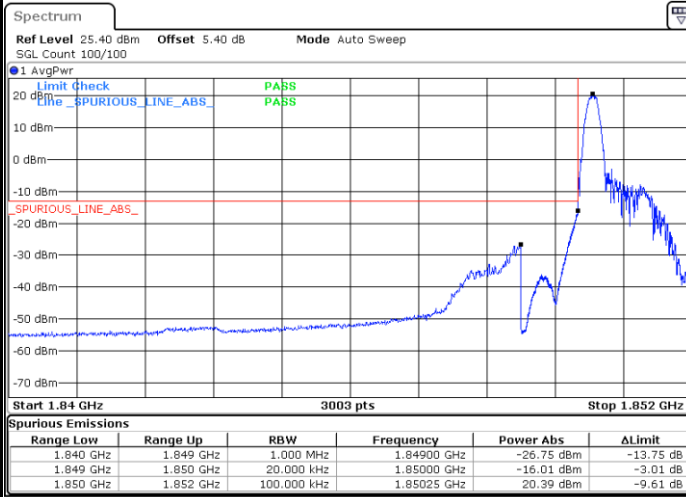
Highest Band Edge / Full RB



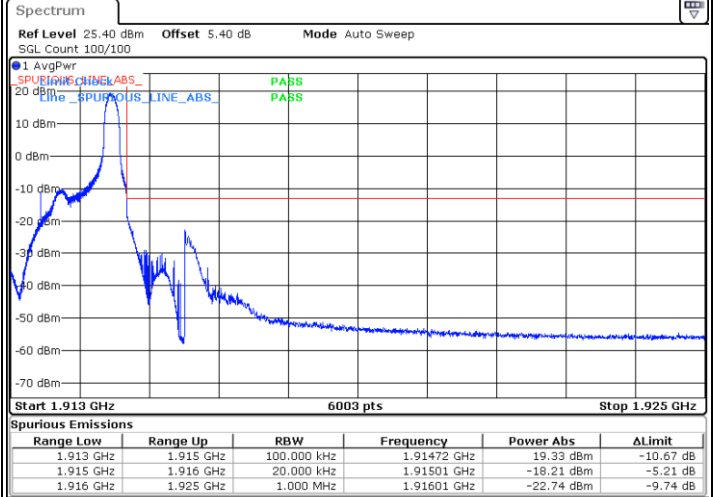


LTE Band 25 / 1.4MHz / 16QAM

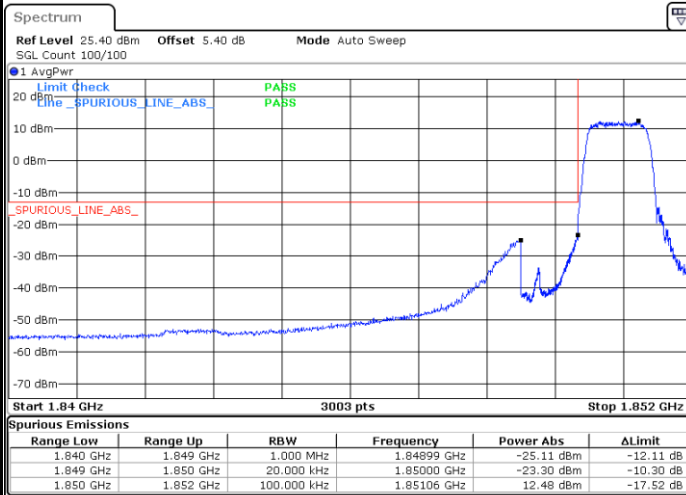
Lowest Band Edge / 1 RB



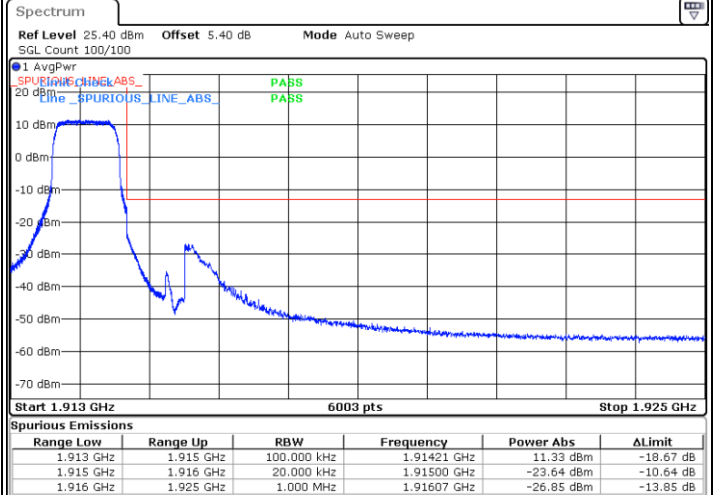
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



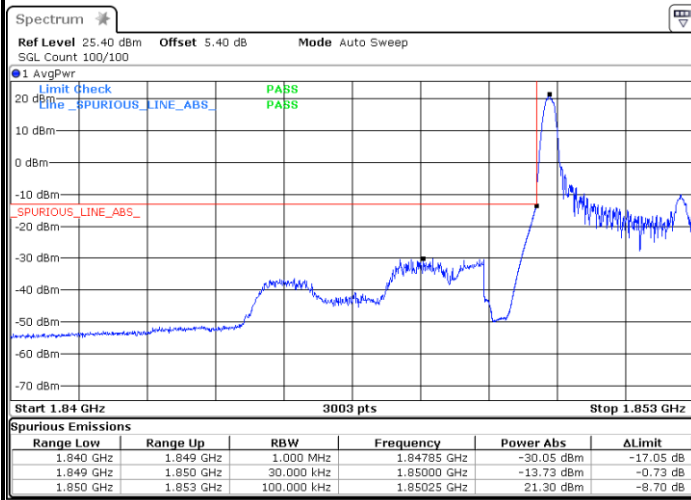
Highest Band Edge / Full RB



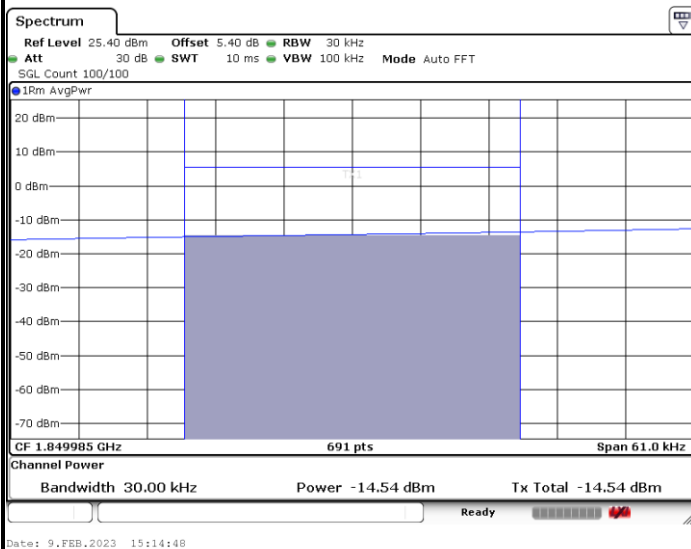
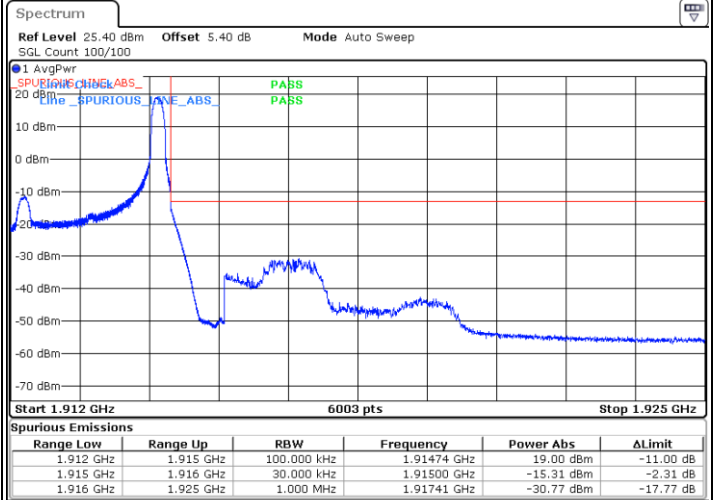


LTE Band 25 / 3MHz / QPSK

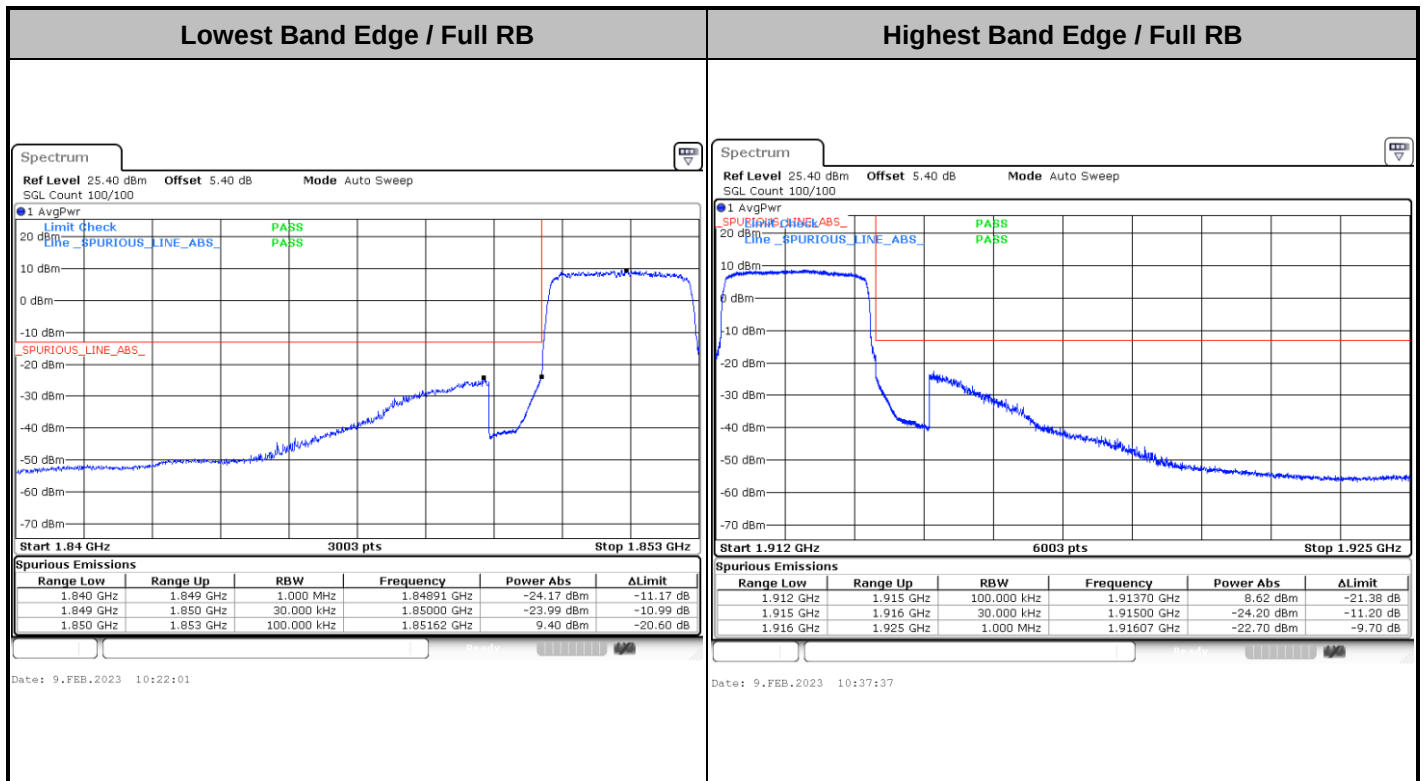
Lowest Band Edge / 1RB



Highest Band Edge / 1 RB



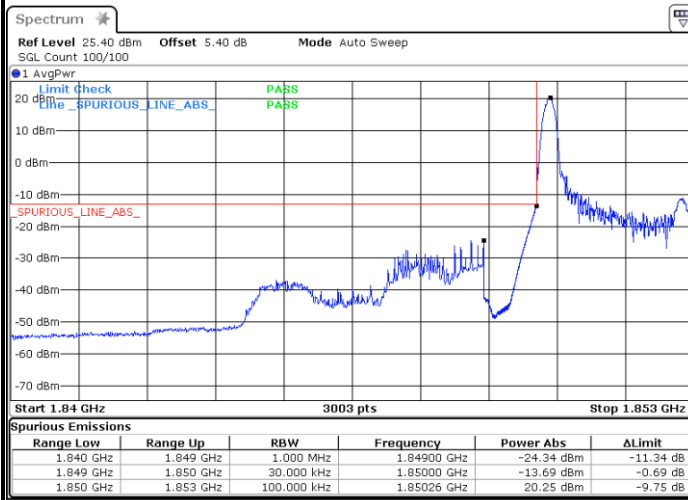
N/A



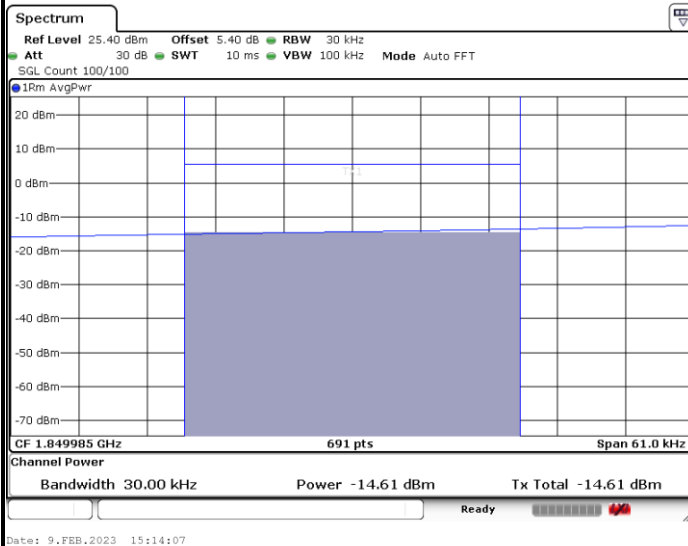
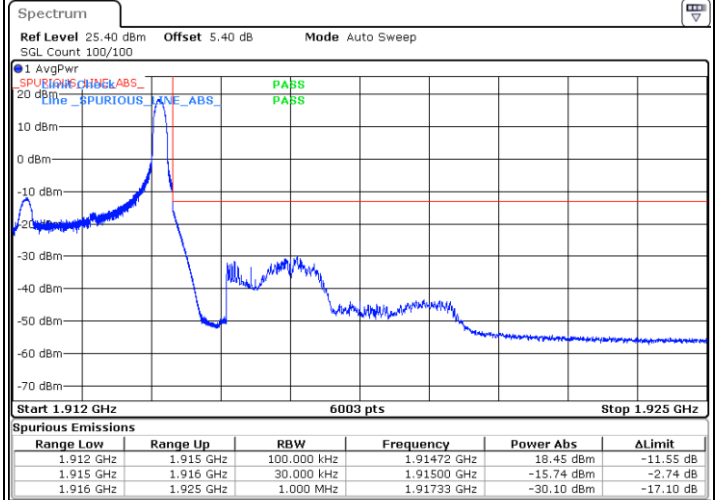


LTE Band 25 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB

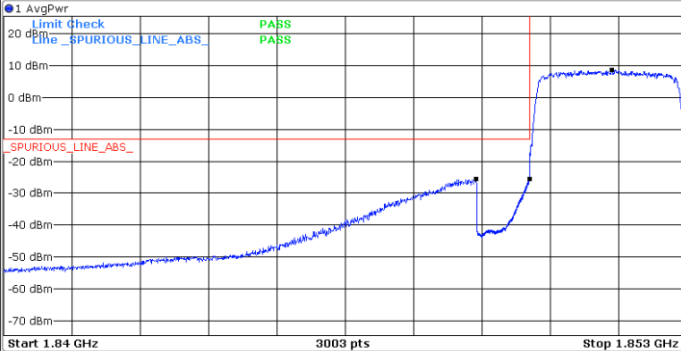


N/A



Lowest Band Edge / Full RB

Spectrum

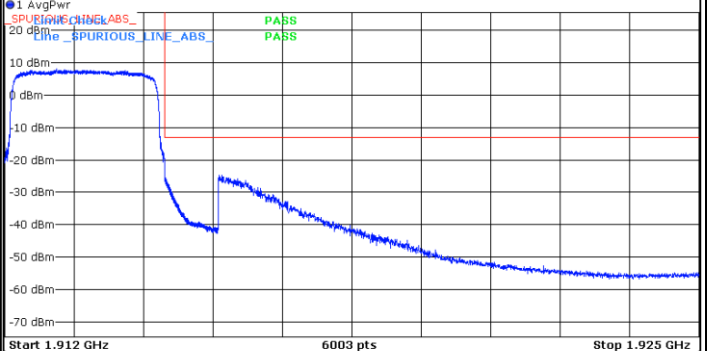
Ref Level 25.40 dBm Offset 5.40 dB Mode Auto Sweep
SGL Count 100/100

Start 1.84 GHz		3003 pts		Stop 1.853 GHz	
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84898 GHz	-25.51 dBm	-12.51 dB
1.849 GHz	1.850 GHz	30.000 kHz	1.85000 GHz	-25.42 dBm	-12.42 dB
1.850 GHz	1.853 GHz	100.000 kHz	1.85157 GHz	8.61 dBm	-21.39 dB

Date: 9.FEB.2023 10:23:41

Highest Band Edge / Full RB

Spectrum

Ref Level 25.40 dBm Offset 5.40 dB Mode Auto Sweep
SGL Count 100/100

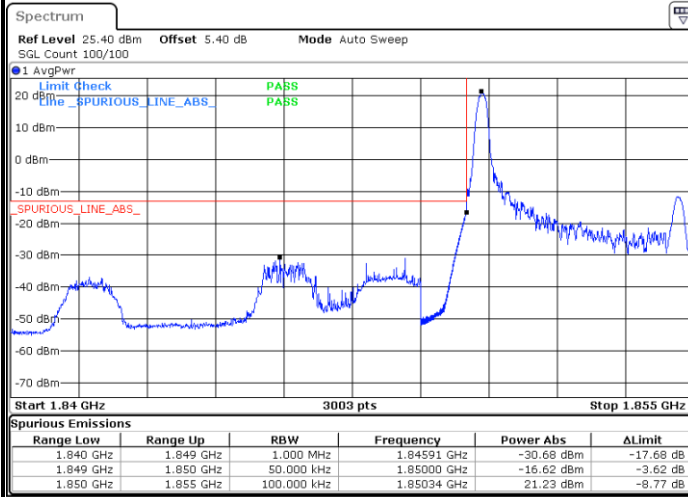
Start 1.912 GHz		6003 pts		Stop 1.925 GHz	
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.912 GHz	1.915 GHz	100.000 kHz	1.91297 GHz	7.97 dBm	-22.03 dB
1.915 GHz	1.916 GHz	30.000 kHz	1.91500 GHz	-25.48 dBm	-12.48 dB
1.916 GHz	1.925 GHz	1.000 MHz	1.91601 GHz	-24.71 dBm	-11.71 dB

Date: 9.FEB.2023 10:39:18

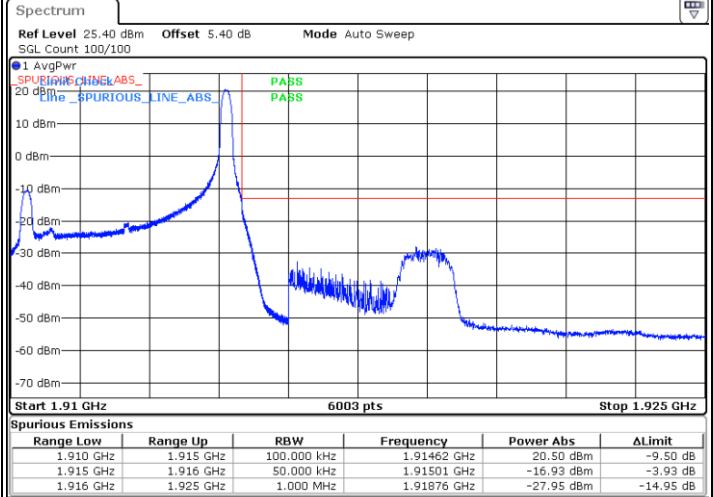


LTE Band 25 / 5MHz / QPSK

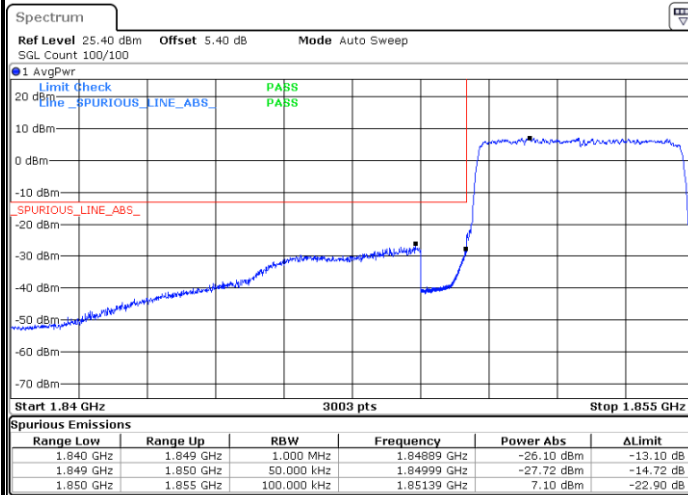
Lowest Band Edge / 1 RB



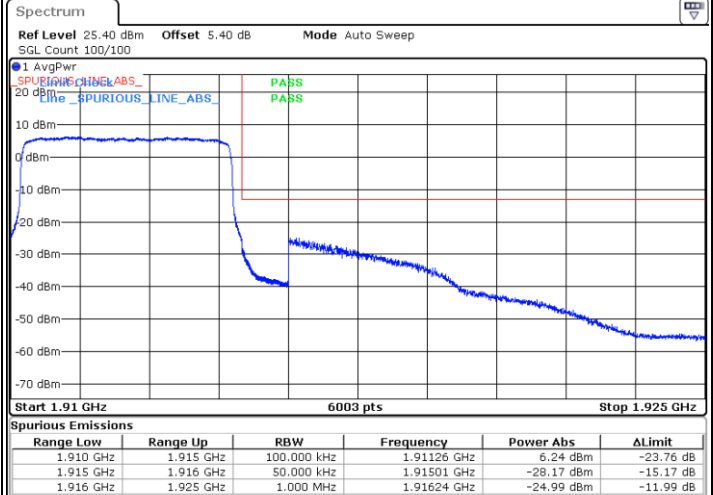
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



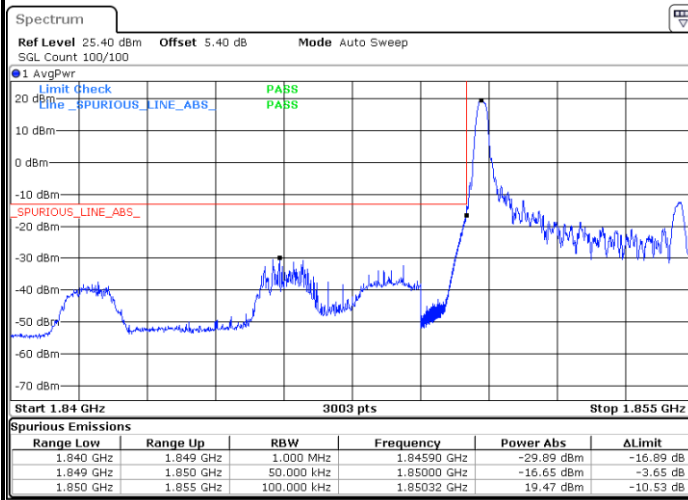
Highest Band Edge / Full RB



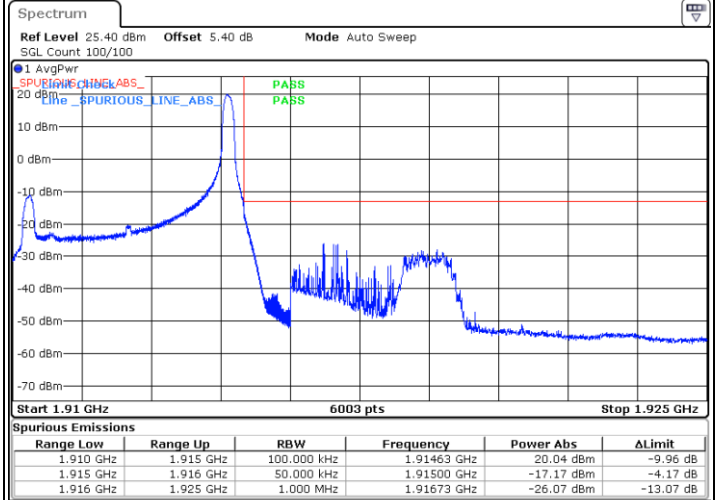


LTE Band 25 / 5MHz / 16QAM

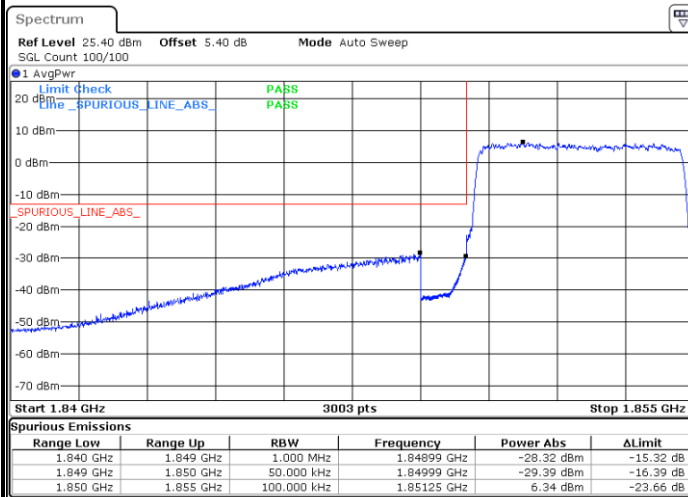
Lowest Band Edge / 1RB



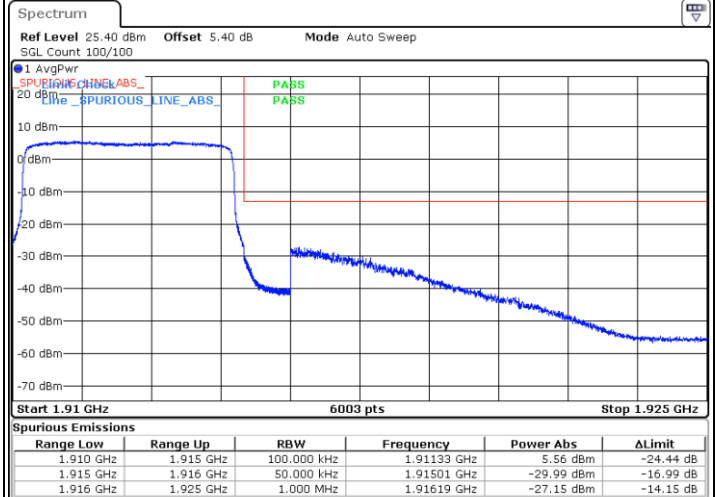
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



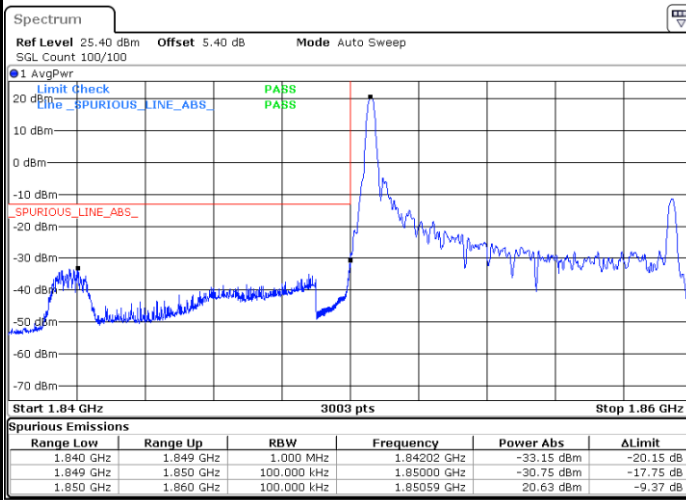
Highest Band Edge / Full RB



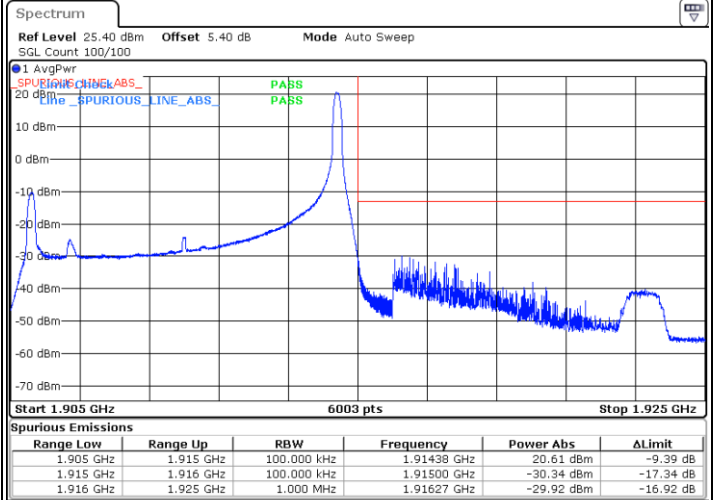


LTE Band 25 / 10MHz / QPSK

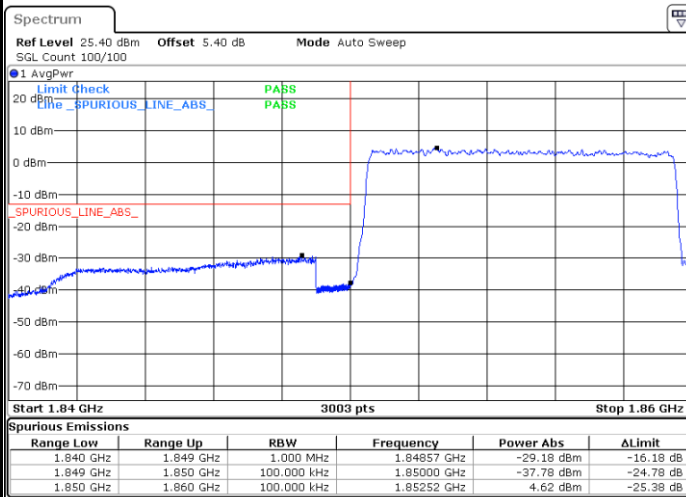
Lowest Band Edge / 1 RB



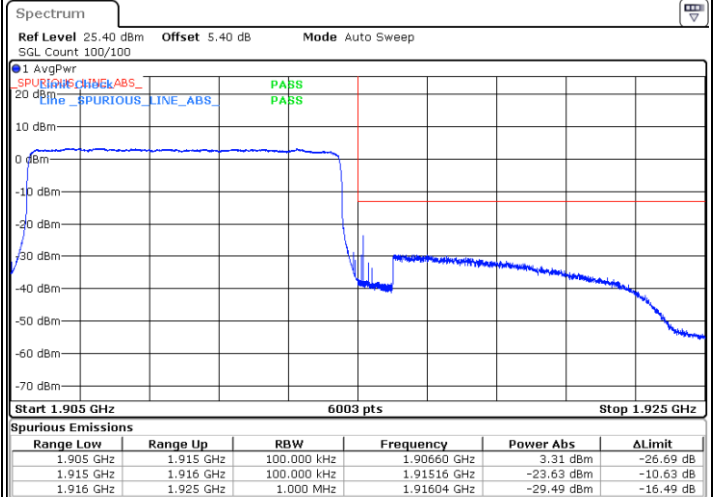
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



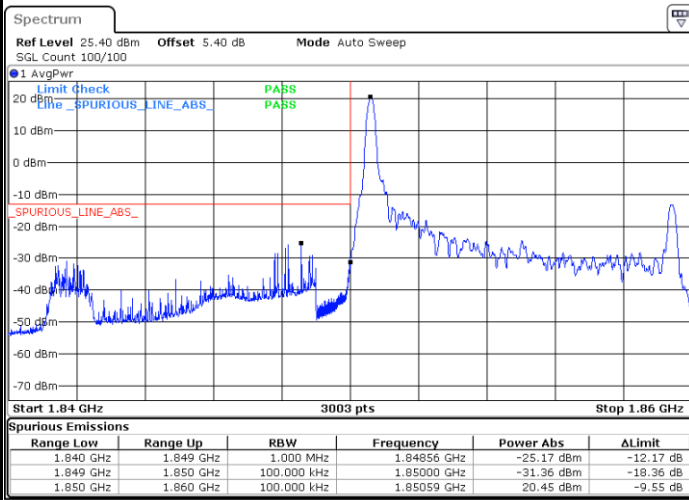
Highest Band Edge / Full RB



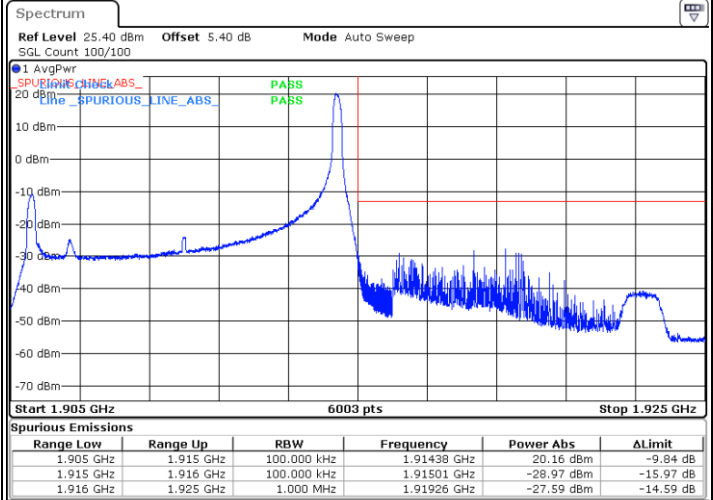


LTE Band 25 / 10MHz / 16QAM

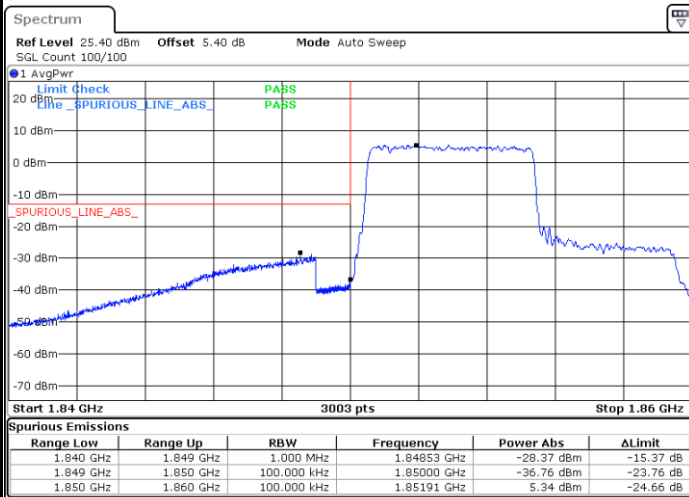
Lowest Band Edge / 1 RB



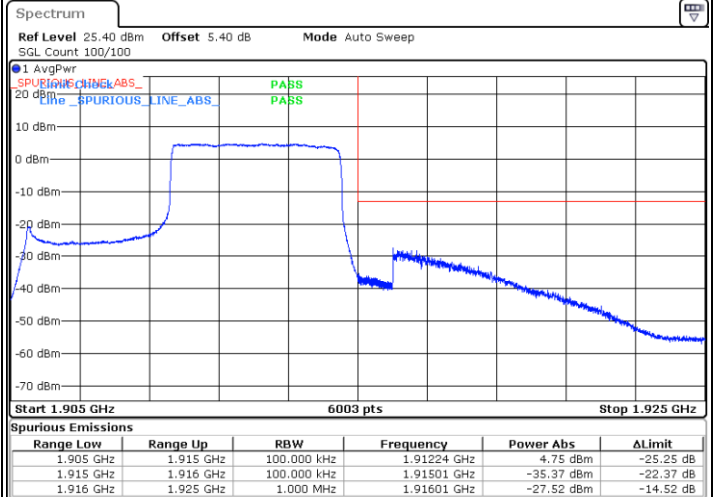
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



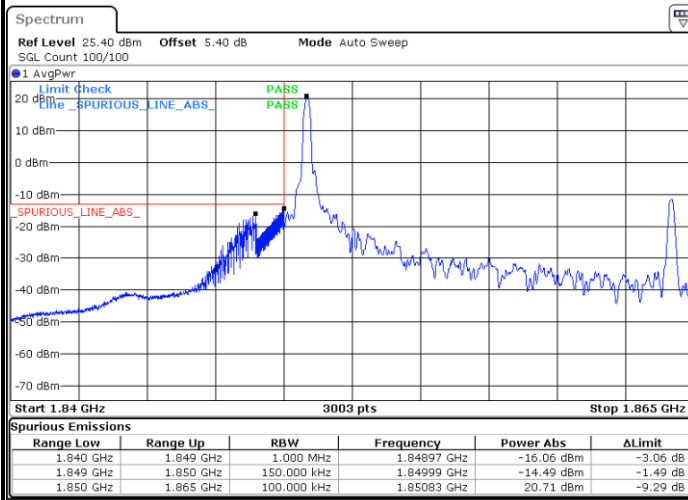
Highest Band Edge / Full RB



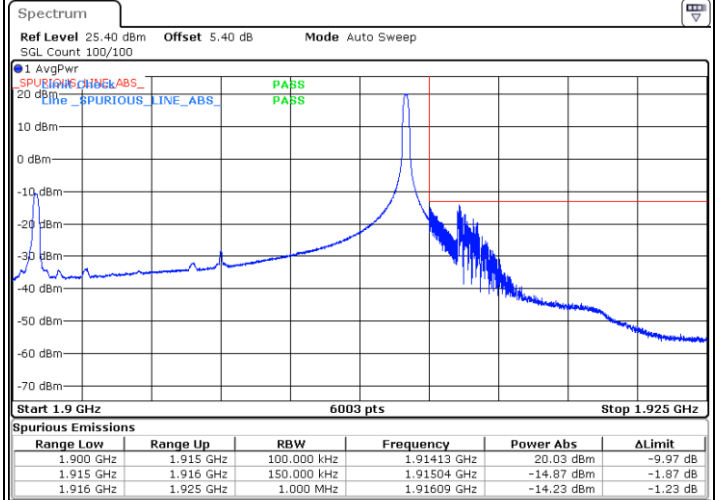


LTE Band 25 / 15MHz / QPSK

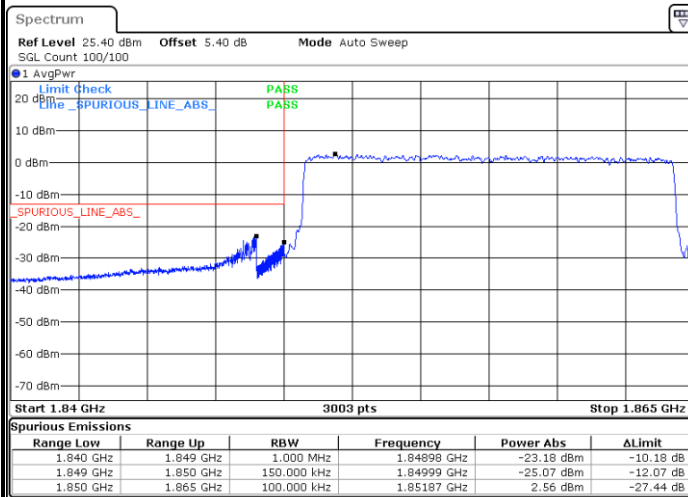
Lowest Band Edge / 1 RB



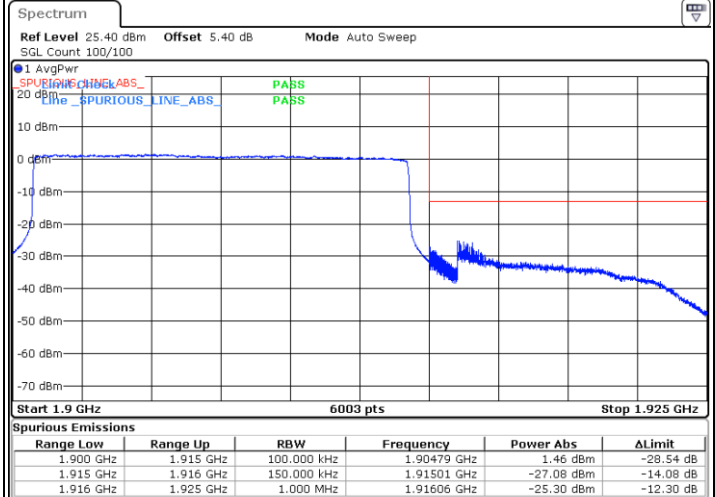
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



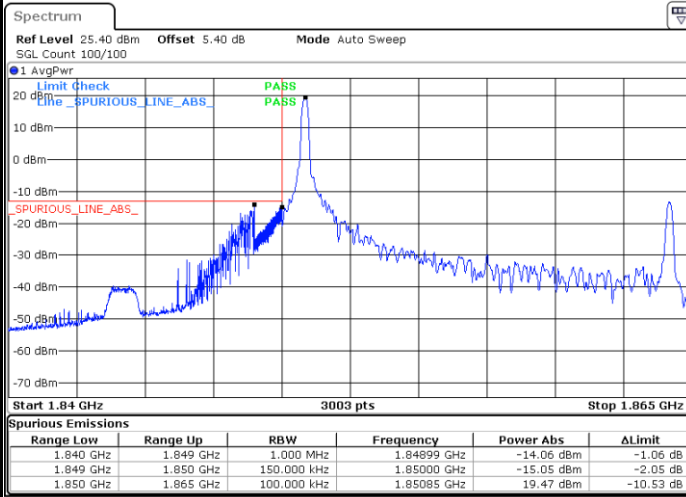
Highest Band Edge / Full RB



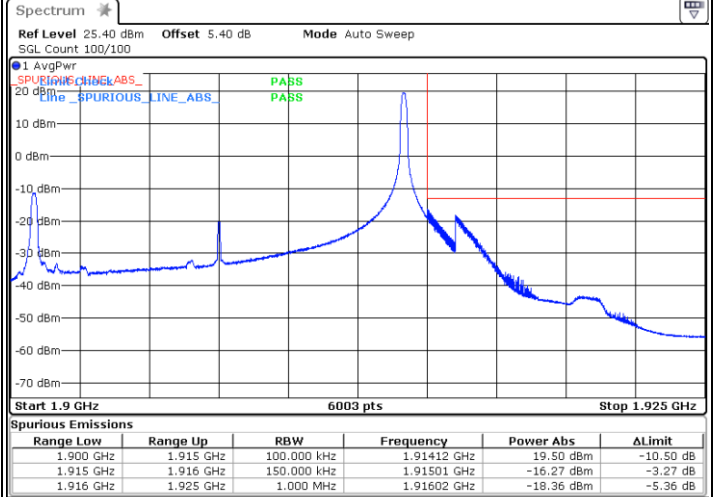


LTE Band 25 / 15MHz / 16QAM

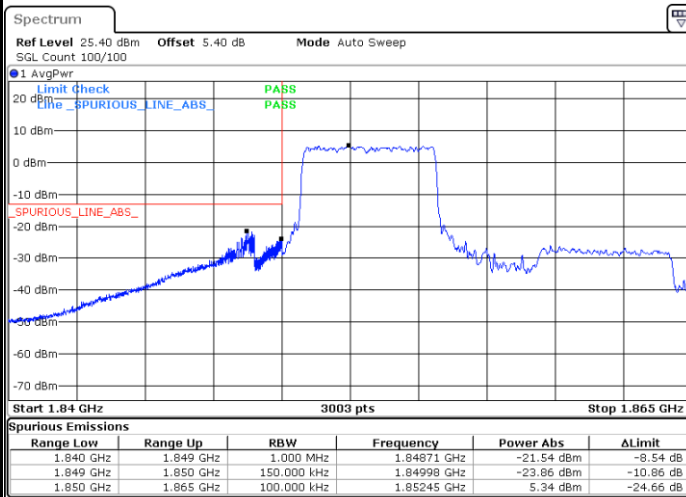
Lowest Band Edge / 1 RB



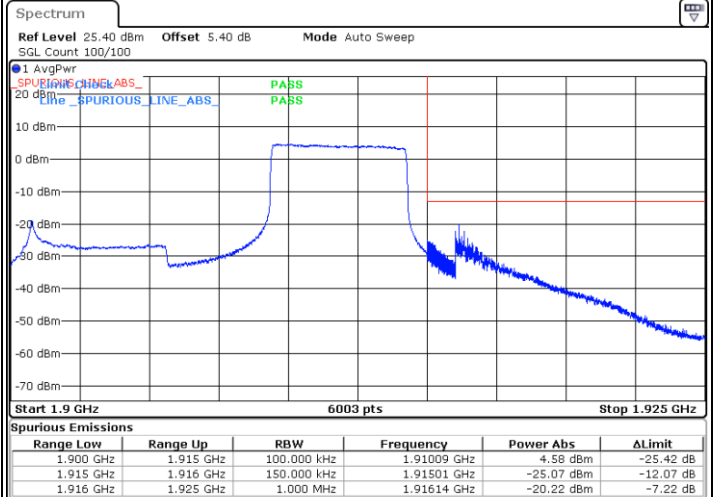
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



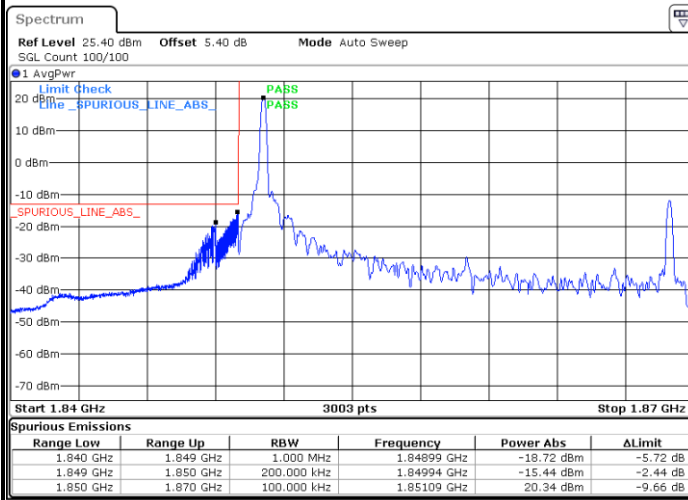
Highest Band Edge / Full RB



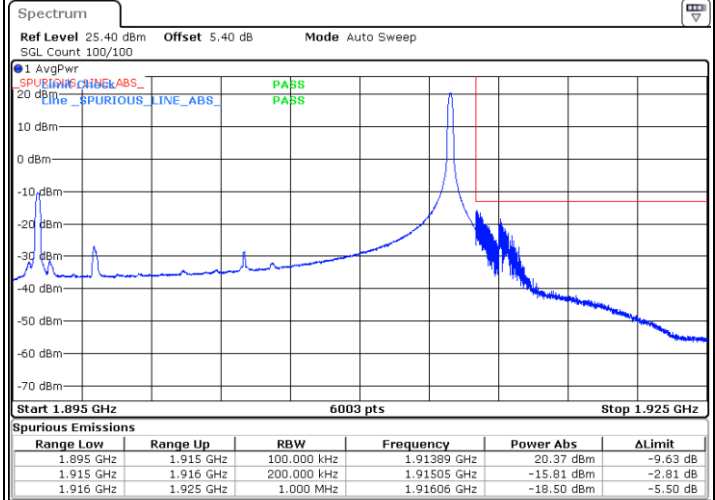


LTE Band 25 / 20MHz / QPSK

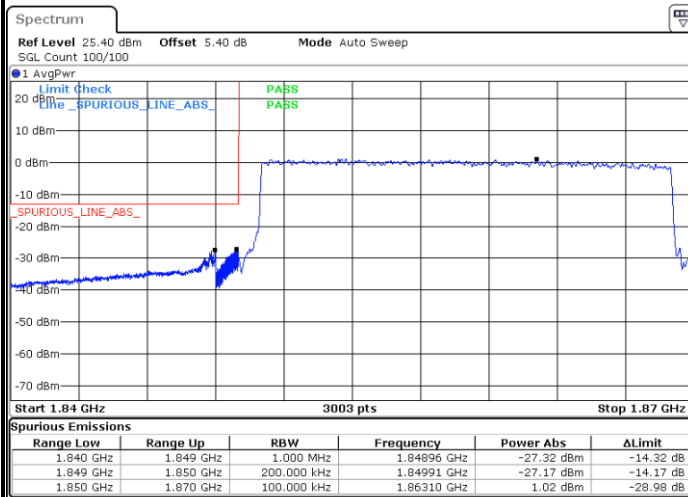
Lowest Band Edge / 1 RB



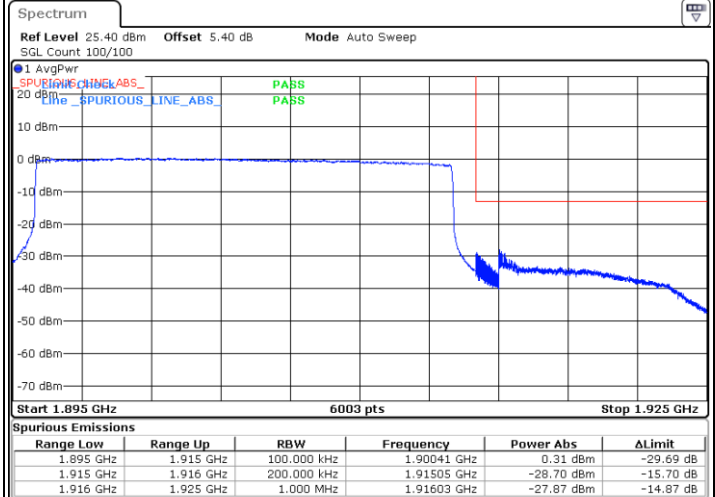
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



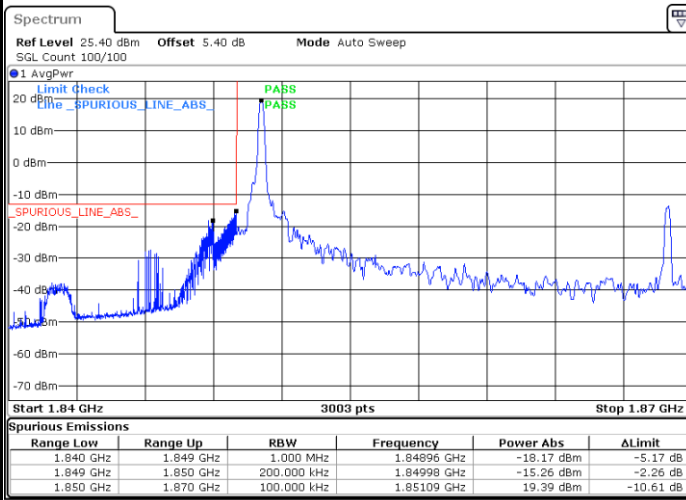
Highest Band Edge / Full RB



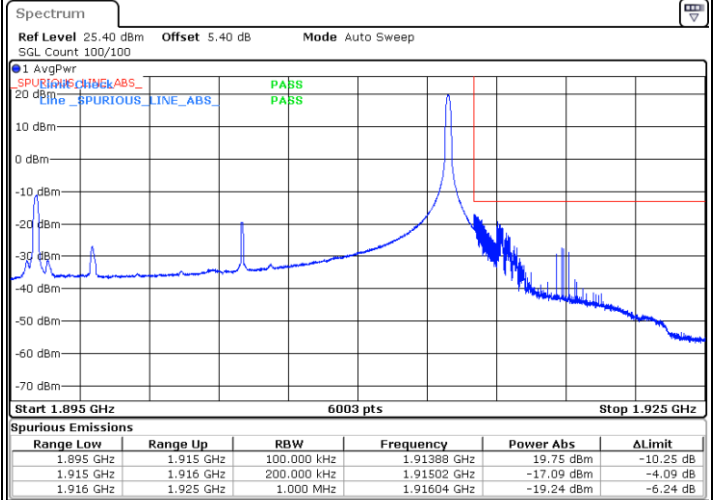


LTE Band 25 / 20MHz / 16QAM

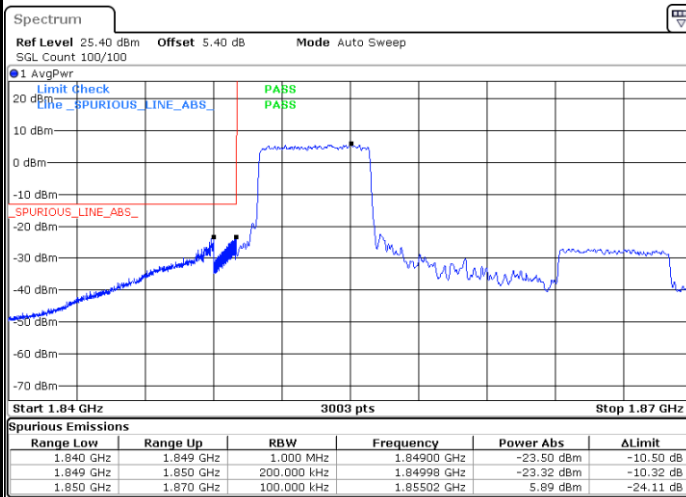
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

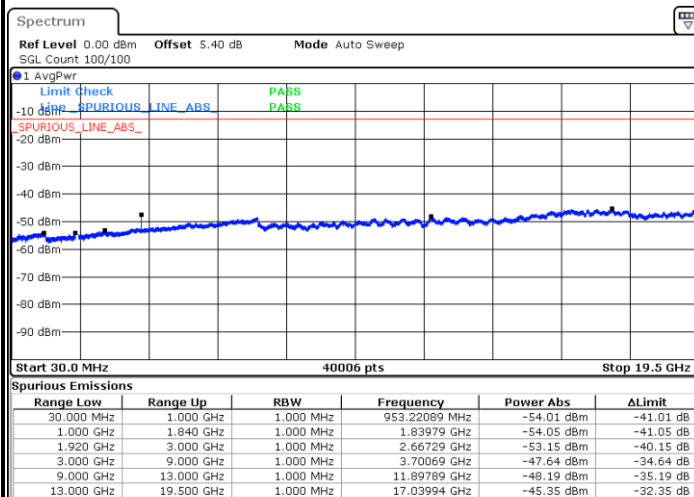




Conducted Spurious Emission

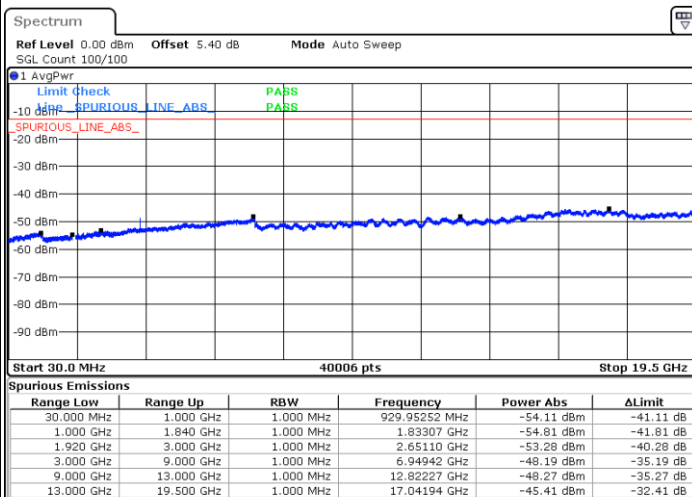
LTE Band 25 / 1.4MHz

Lowest Channel / QPSK



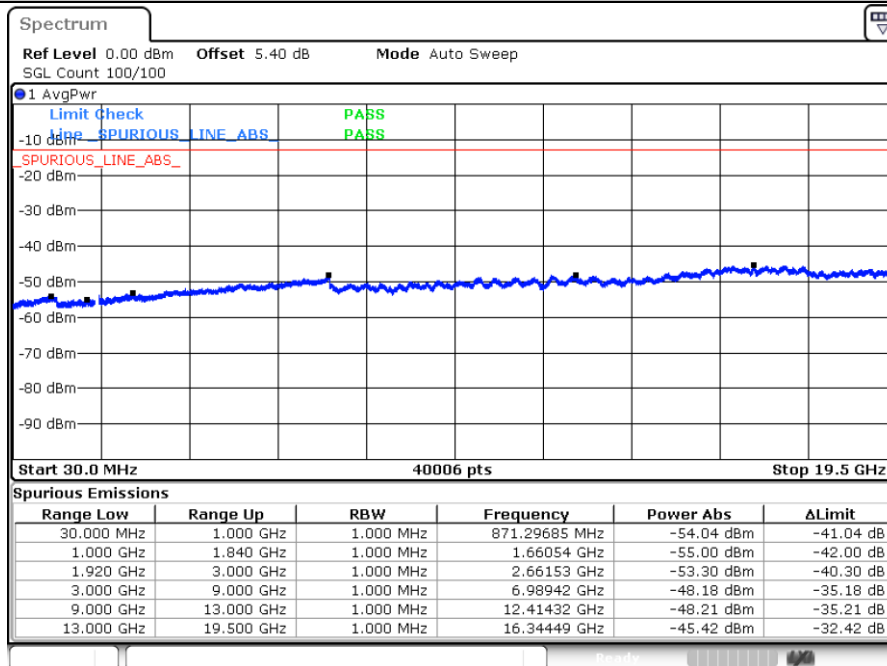
Date: 9.FEB.2023 10:02:40

Middle Channel / QPSK



Date: 9.FEB.2023 10:12:13

Highest Channel / QPSK

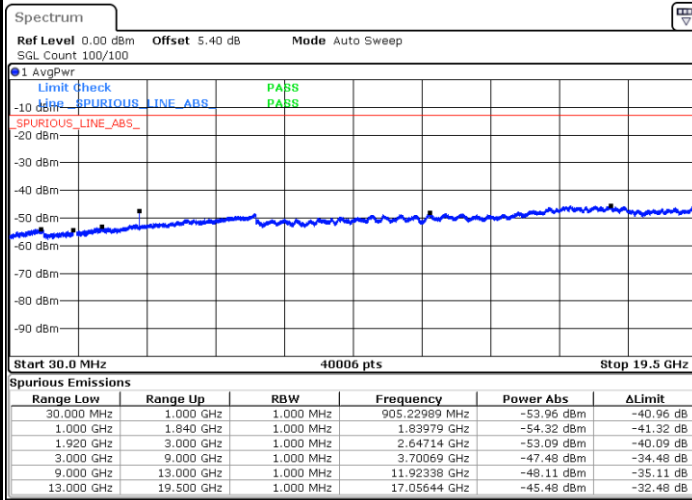


Date: 9.FEB.2023 10:13:34



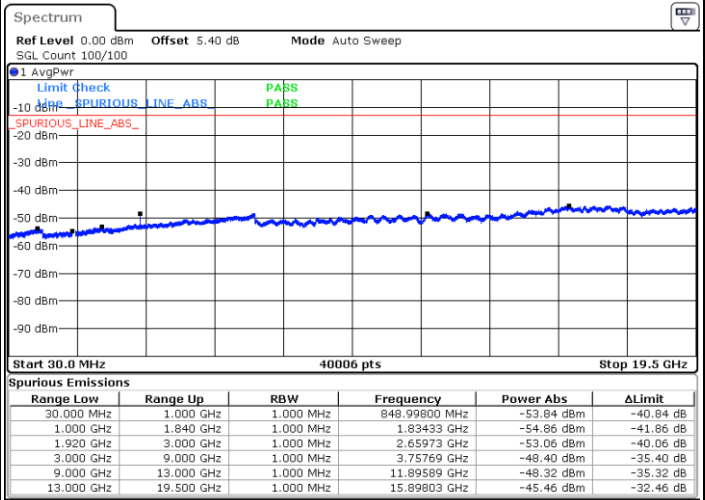
LTE Band 25 / 3MHz

Lowest Channel / QPSK



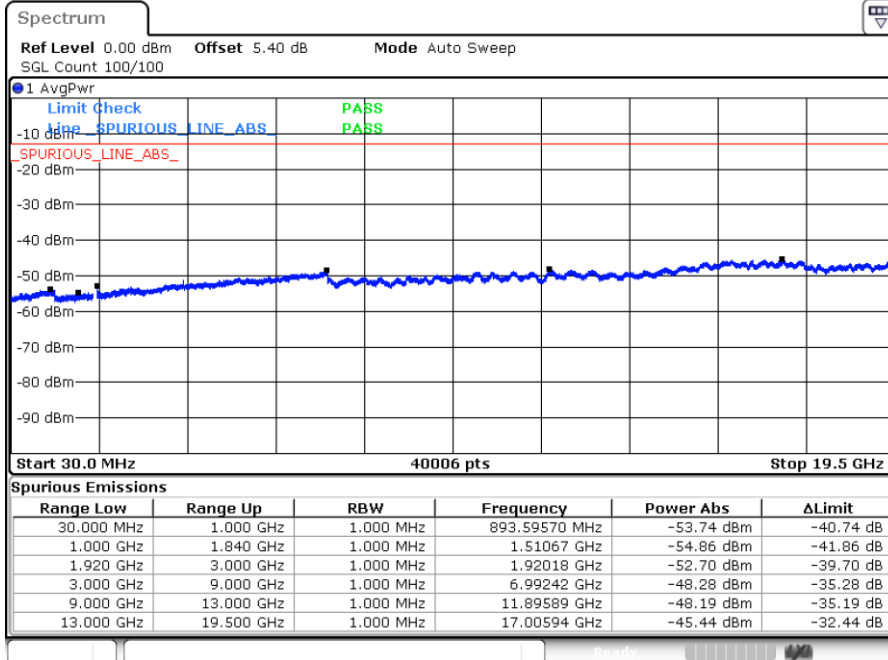
Date: 9.FEB.2023 10:25:03

Middle Channel / QPSK



Date: 9.FEB.2023 10:31:12

Highest Channel / QPSK

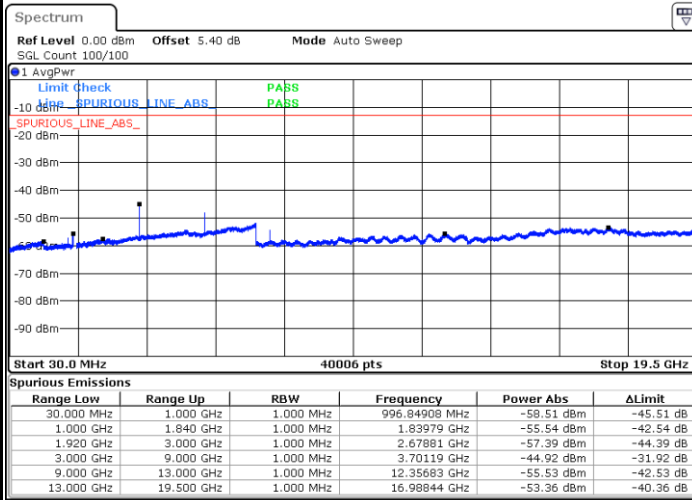


Date: 9.FEB.2023 10:32:34



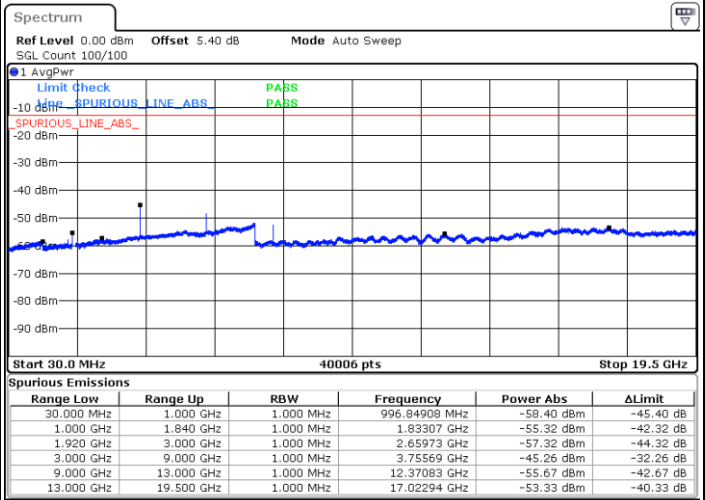
LTE Band 25 / 5MHz

Lowest Channel / QPSK



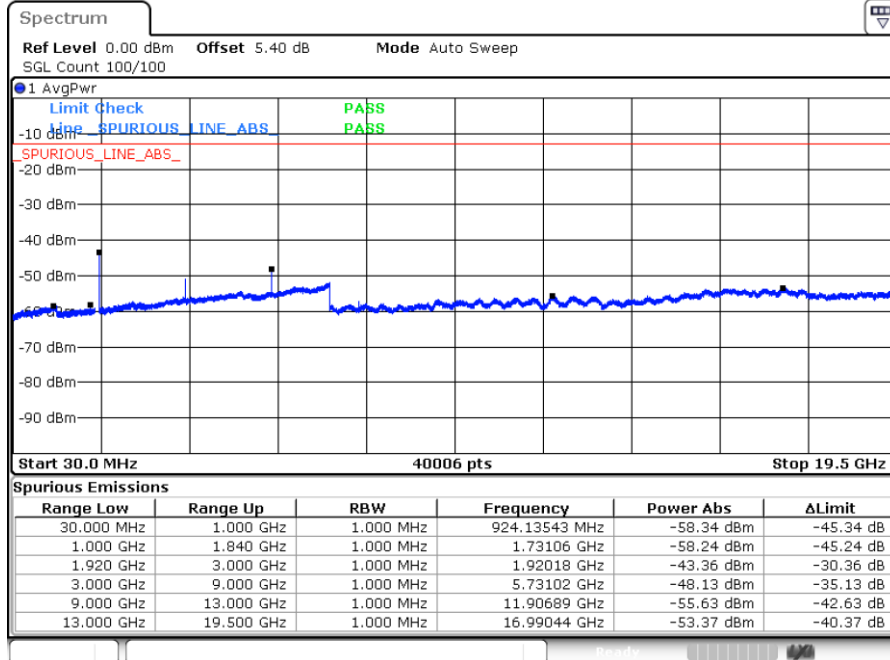
Date: 9.FEB.2023 10:44:01

Middle Channel / QPSK



Date: 9.FEB.2023 10:48:43

Highest Channel / QPSK

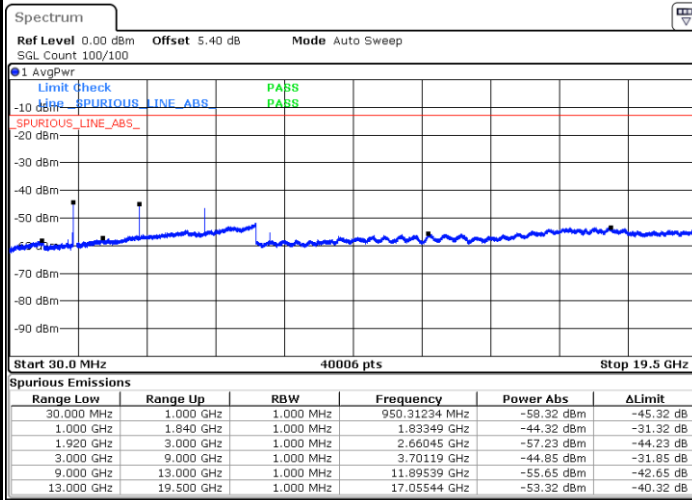


Date: 9.FEB.2023 10:51:33



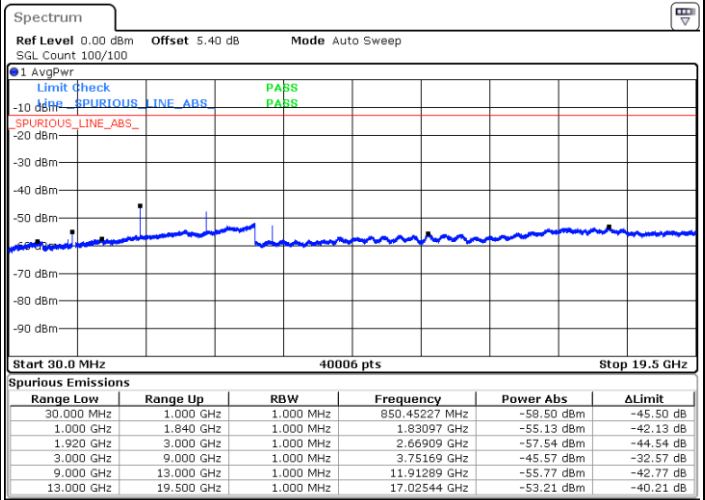
LTE Band 25 / 10MHz

Lowest Channel / QPSK



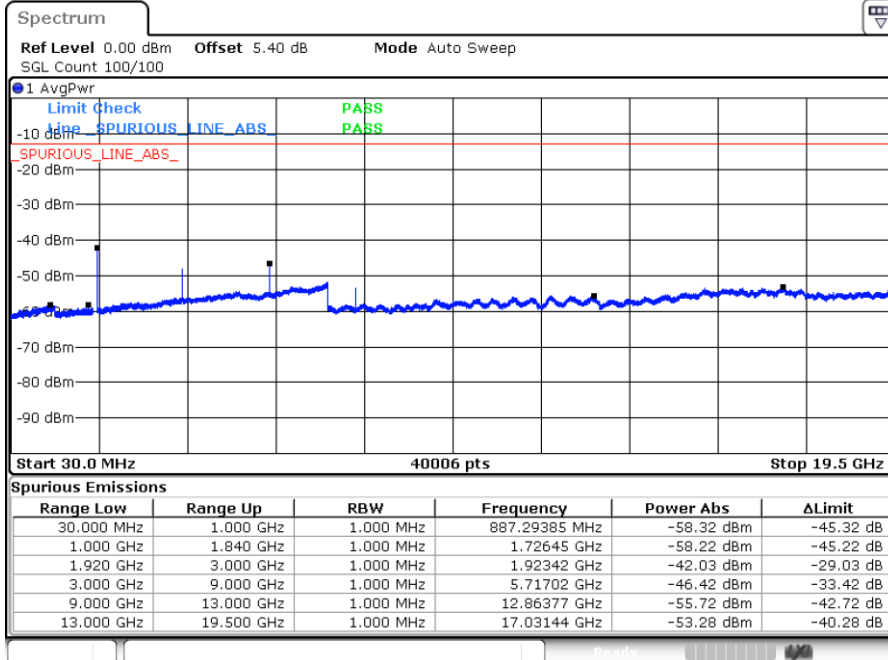
Date: 9.FEB.2023 11:04:40

Middle Channel / QPSK



Date: 9.FEB.2023 11:07:41

Highest Channel / QPSK

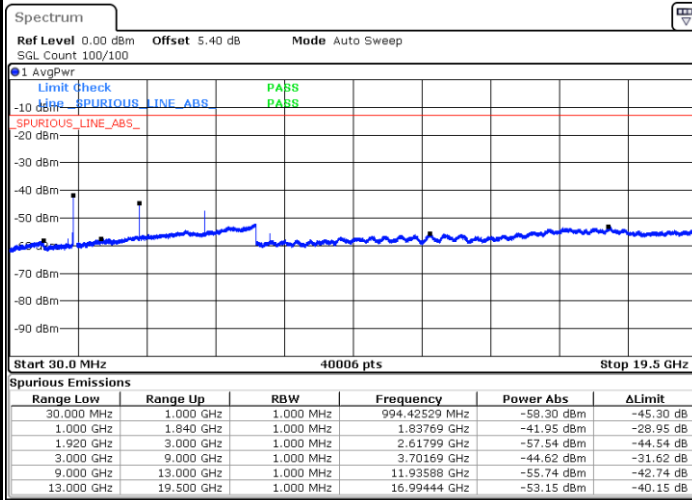


Date: 9.FEB.2023 11:10:31



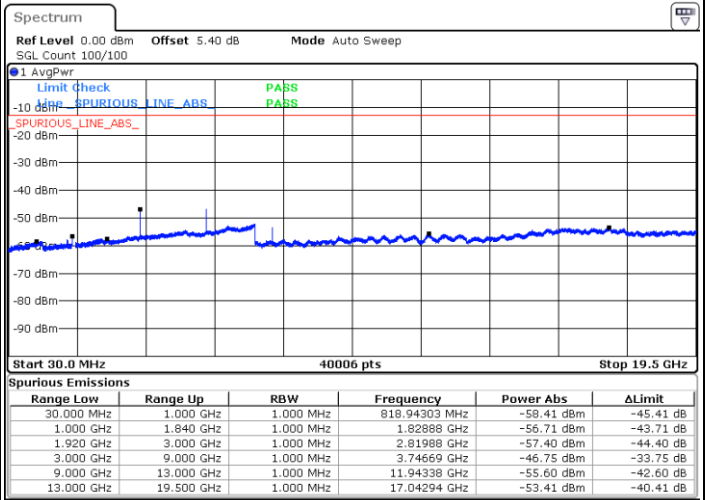
LTE Band 25 / 15MHz

Lowest Channel / QPSK



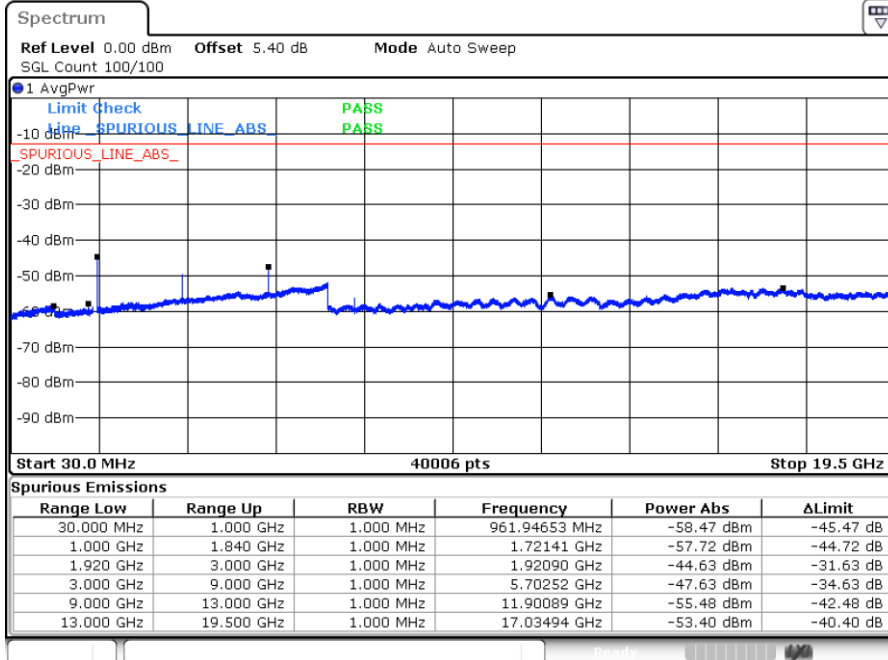
Date: 9.FEB.2023 12:47:36

Middle Channel / QPSK



Date: 9.FEB.2023 12:50:37

Highest Channel / QPSK

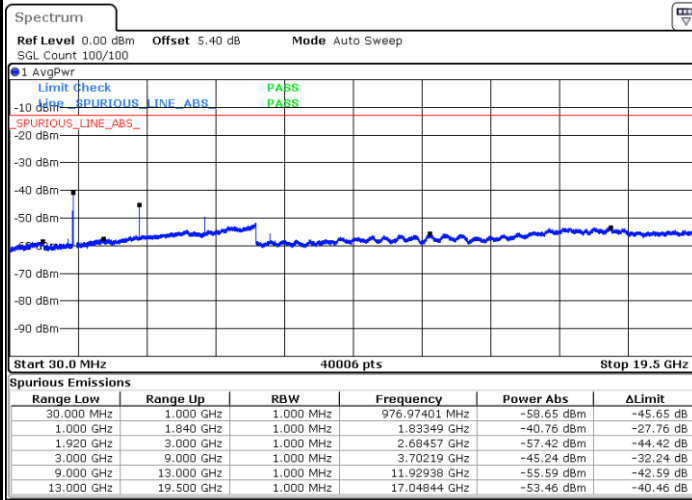


Date: 9.FEB.2023 12:52:43



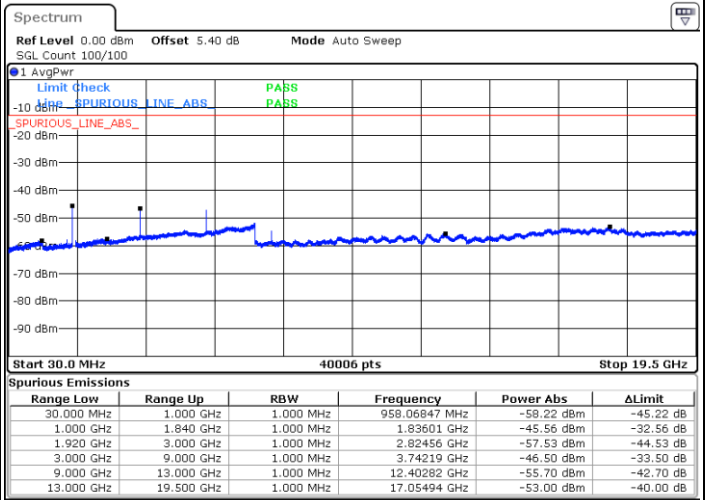
LTE Band 25 / 20MHz

Lowest Channel / QPSK



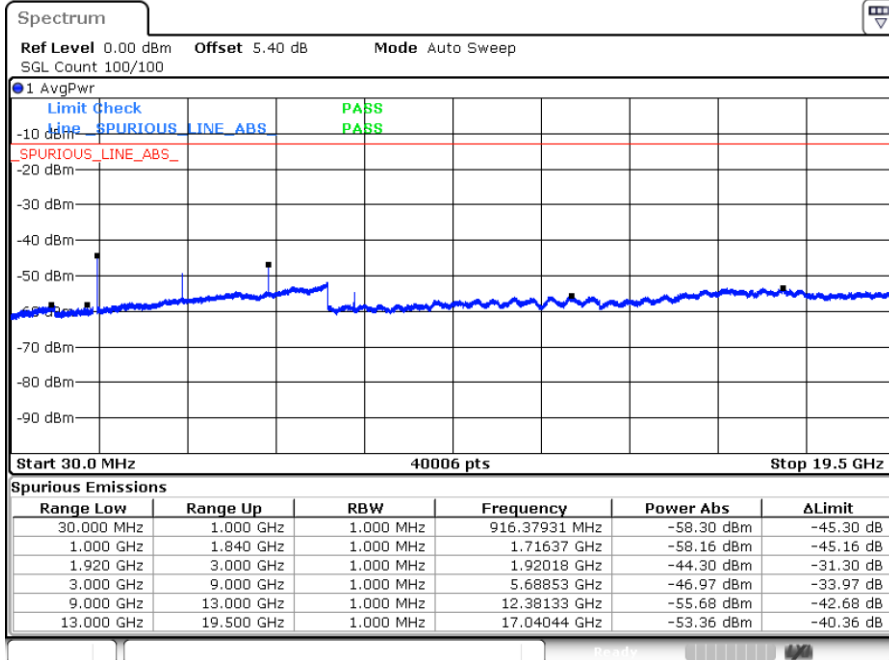
Date: 9.FEB.2023 12:59:06

Middle Channel / QPSK



Date: 9.FEB.2023 13:02:08

Highest Channel / QPSK



Date: 9.FEB.2023 13:04:13

Frequency Stability

Test Conditions		LTE Band 25 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0025	PASS
40	Normal Voltage	0.0023	
30	Normal Voltage	0.0042	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0037	
0	Normal Voltage	0.0004	
-10	Normal Voltage	0.0023	
-20	Normal Voltage	0.0022	
-30	Normal Voltage	0.0014	
20	Maximum Voltage	0.0026	
20	Normal Voltage	0.0016	
20	End Point	0.0018	

Note:

1. Normal Voltage =3.8 V. ; End Point (BEP) =3.3 V. ; Maximum Voltage =4.3 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.