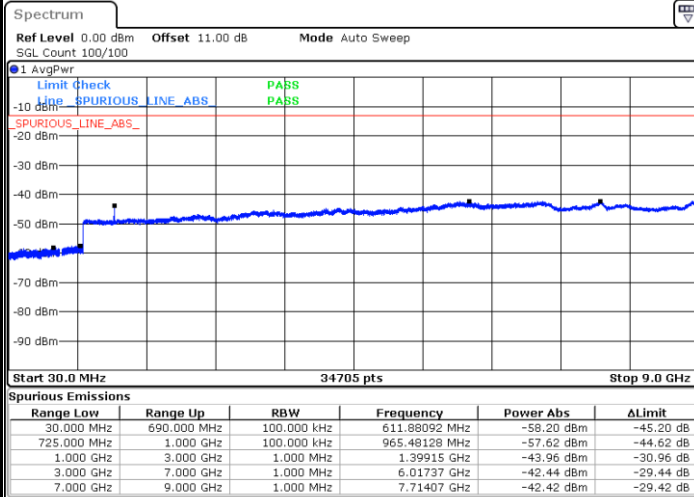




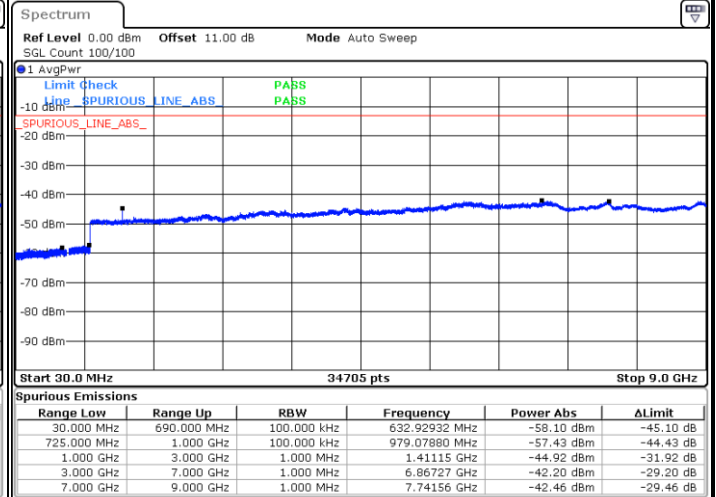
LTE Band 12 / 5MHz

Lowest Channel / QPSK



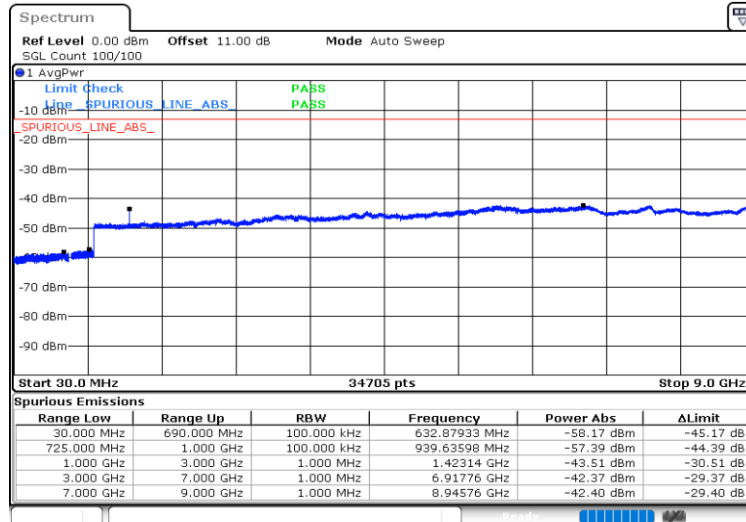
Date: 15.DEC.2022 10:09:56

Middle Channel / QPSK



Date: 15.DEC.2022 10:11:14

Highest Channel / QPSK

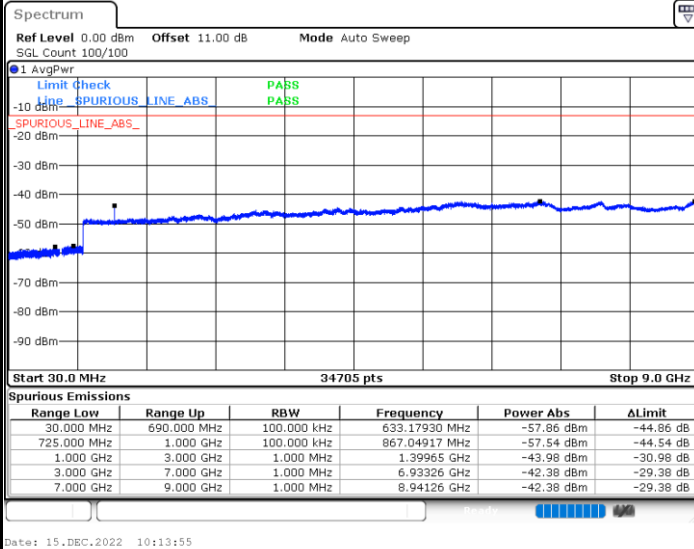


Date: 15.DEC.2022 10:12:32

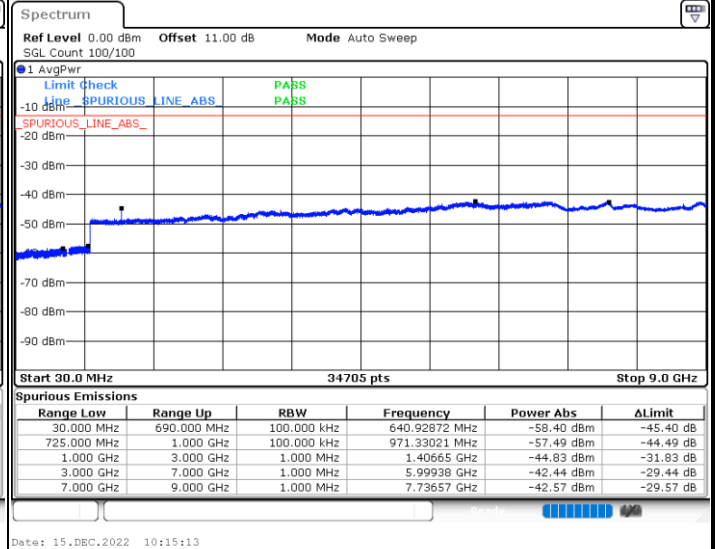


LTE Band 12 / 10MHz

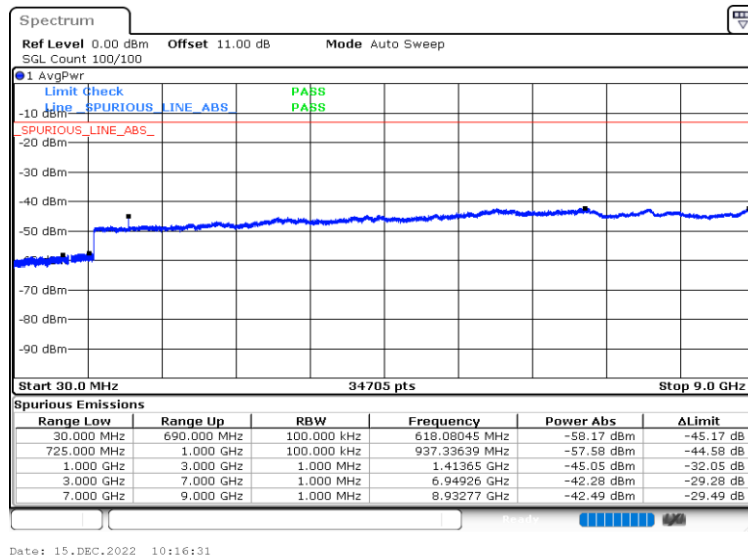
Lowest Channel / QPSK



Middle Channel / QPSK



Highest Channel / QPSK



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	0.0013	PASS
40	Normal Voltage	0.0045	
30	Normal Voltage	0.0014	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0033	
0	Normal Voltage	0.0068	
-10	Normal Voltage	0.0034	
-20	Normal Voltage	0.0017	
-30	Normal Voltage	0.0041	
20	Maximum Voltage	0.0037	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0103	

Note:

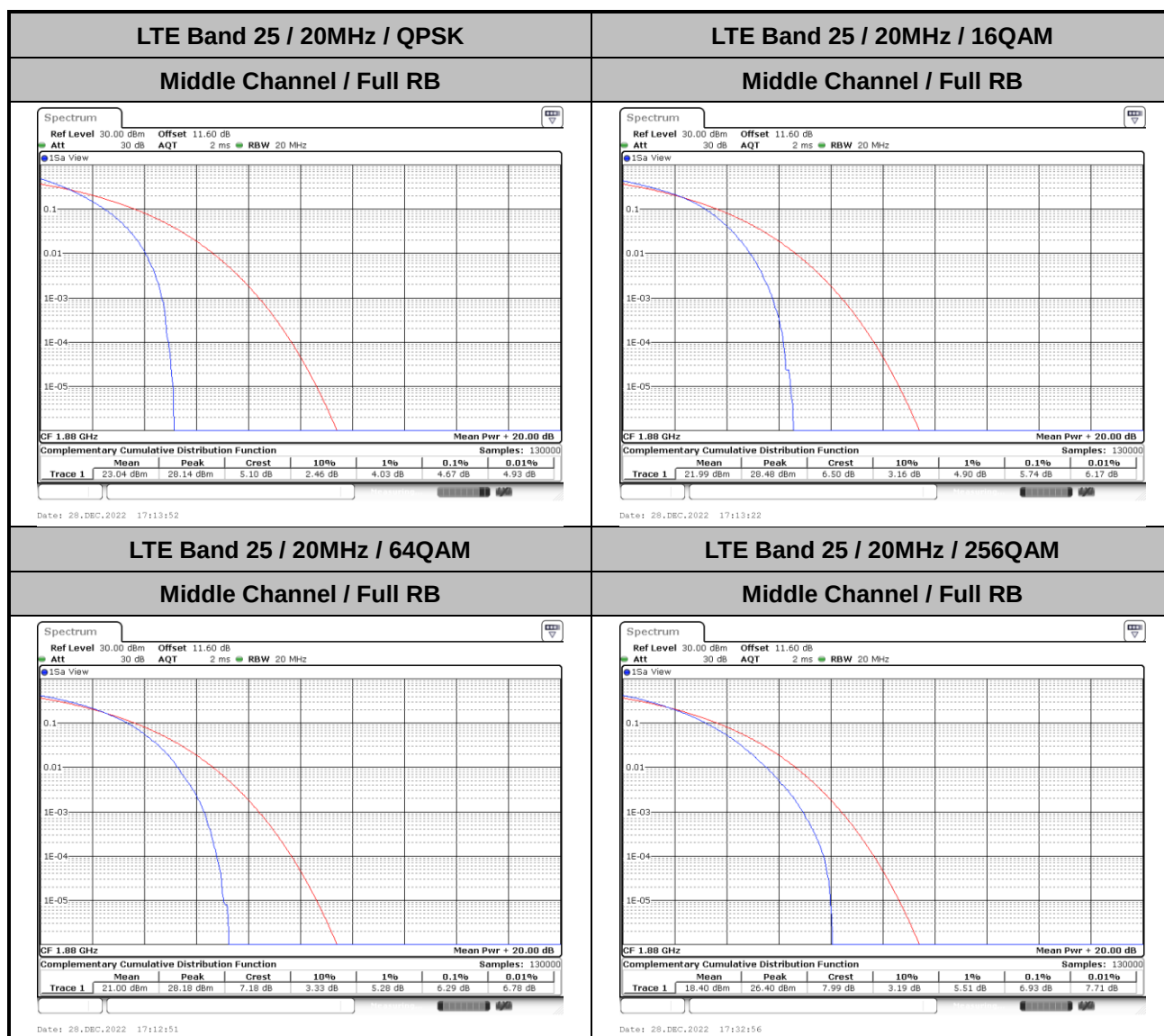
1. Normal Voltage = 4.2 V. ; Battery End Point (BEP) = 3.4 V. ; Maximum Voltage = 4.3 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 25

Peak-to-Average Ratio

Mode	LTE Band 25 / 20MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.67	5.74	6.29	6.93	PASS



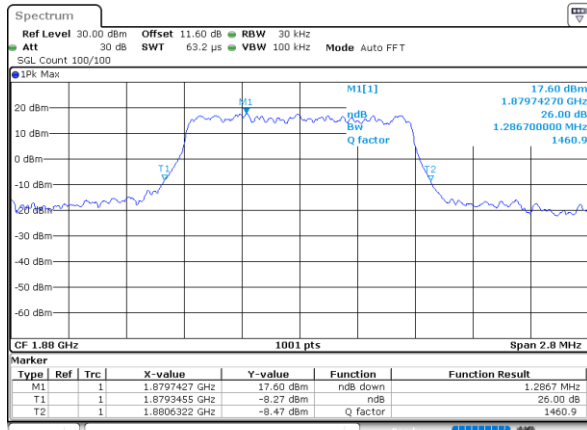
**26dB Bandwidth**

Mode	LTE Band 25 : 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	1.29	1.25	2.99	2.94	4.93	4.78	9.69	9.81	14.39	14.33	18.78	18.86
Mode	LTE Band 25 : 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	1.29	1.23	3.01	3.02	4.96	4.84	9.87	9.79	14.57	14.66	18.66	18.74



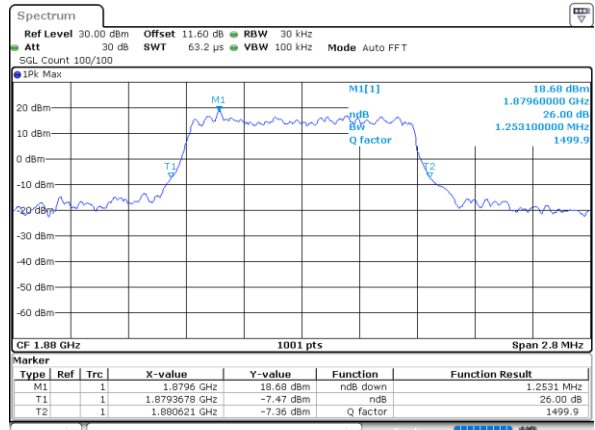
LTE Band 25

Middle Channel / 1.4MHz / QPSK



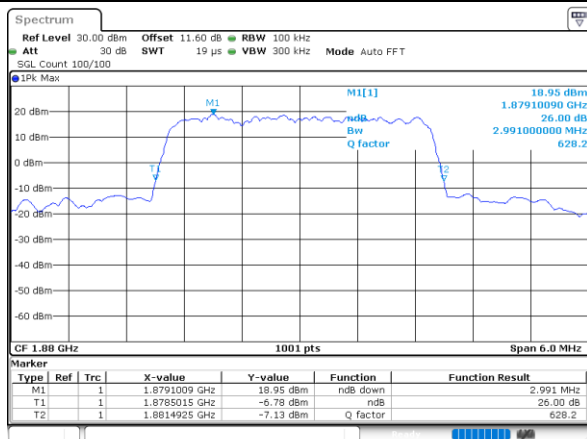
Date: 28.DEC.2022 16:09:51

Middle Channel / 1.4MHz / 16QAM



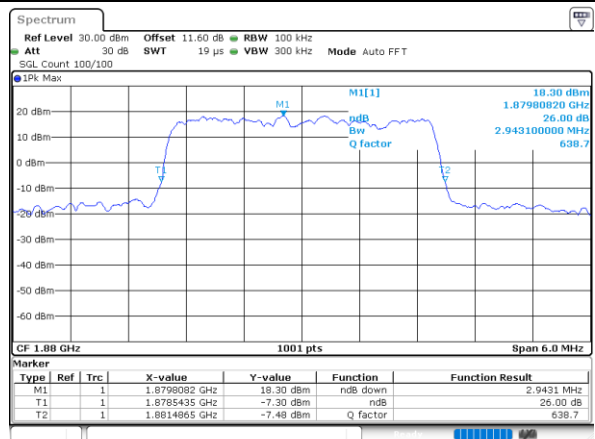
Date: 28.DEC.2022 16:10:20

Middle Channel / 3MHz / QPSK



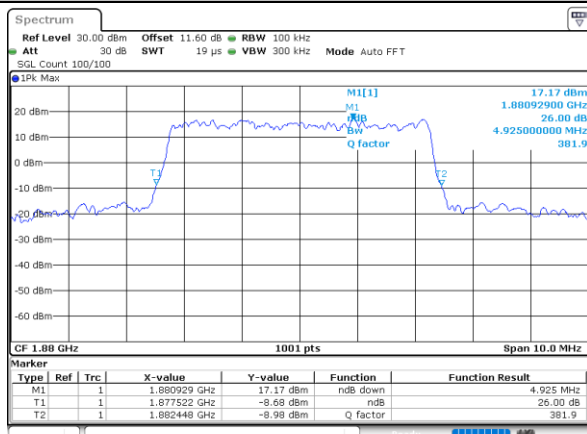
Date: 28.DEC.2022 16:29:38

Middle Channel / 3MHz / 16QAM



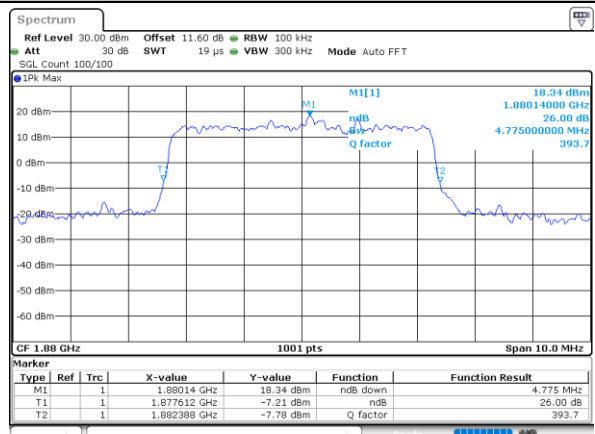
Date: 28.DEC.2022 16:30:07

Middle Channel / 5MHz / QPSK



Date: 28.DEC.2022 16:37:29

Middle Channel / 5MHz / 16QAM

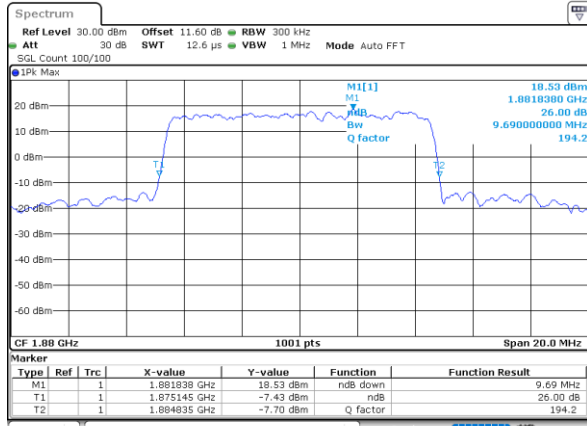


Date: 28.DEC.2022 16:37:59



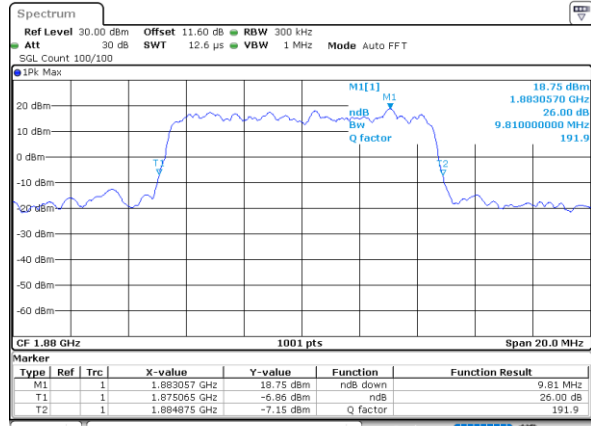
LTE Band 25

Middle Channel / 10MHz / QPSK



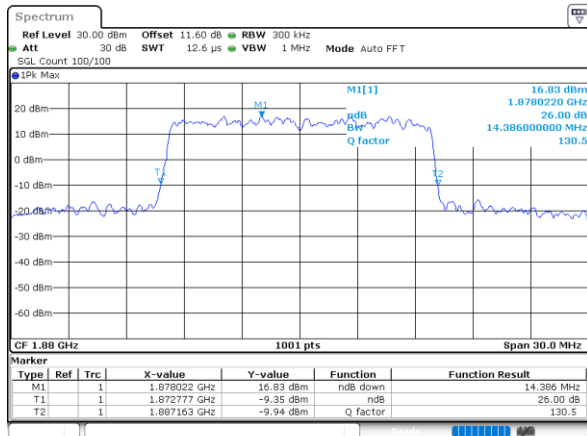
Date: 28.DEC.2022 16:48:02

Middle Channel / 10MHz / 16QAM



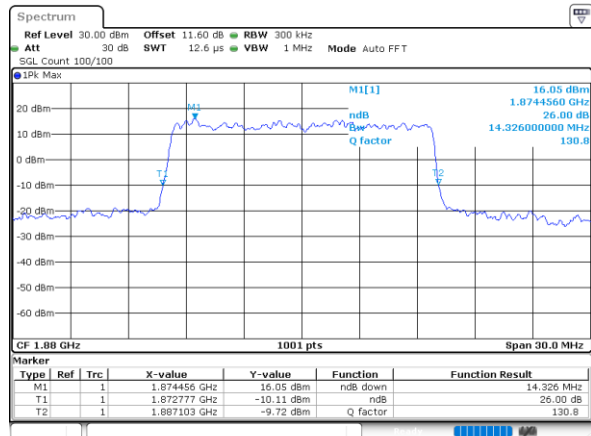
Date: 28.DEC.2022 16:48:132

Middle Channel / 15MHz / QPSK



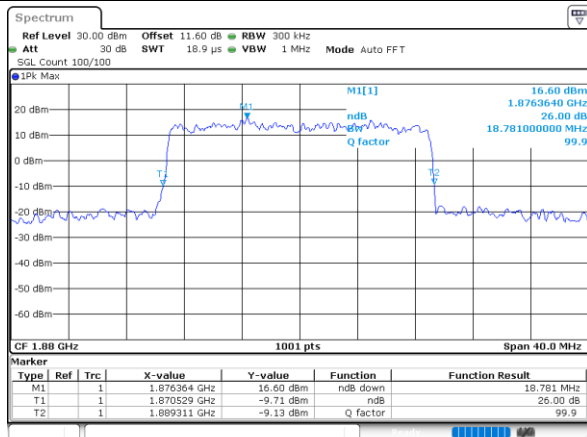
Date: 28.DEC.2022 17:01:16

Middle Channel / 15MHz / 16QAM



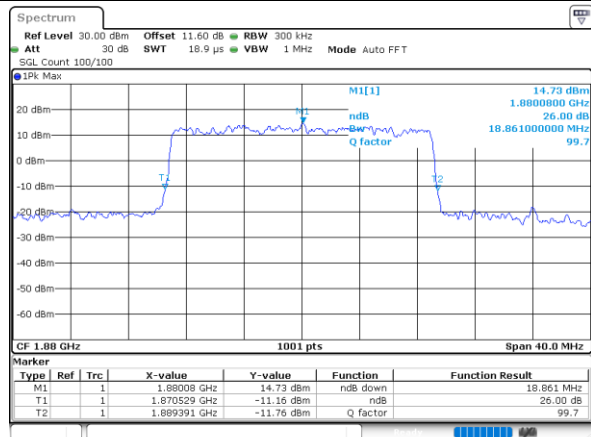
Date: 28.DEC.2022 17:01:145

Middle Channel / 20MHz / QPSK



Date: 28.DEC.2022 17:07:13

Middle Channel / 20MHz / 16QAM

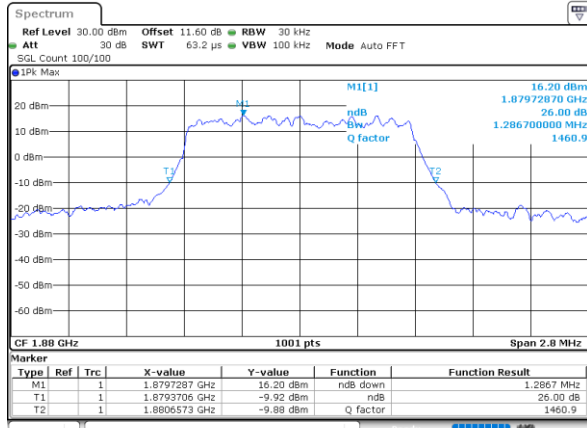


Date: 28.DEC.2022 17:07:142

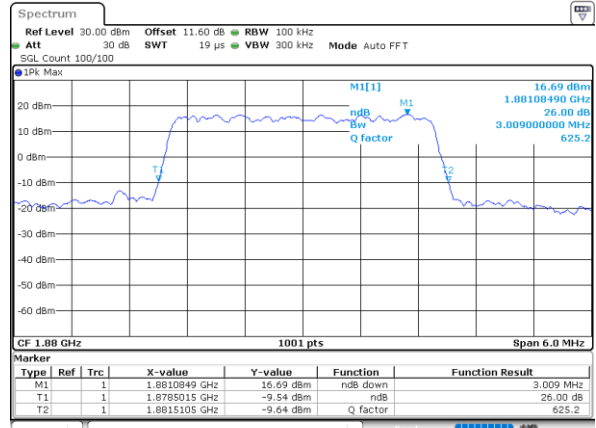


LTE Band 25

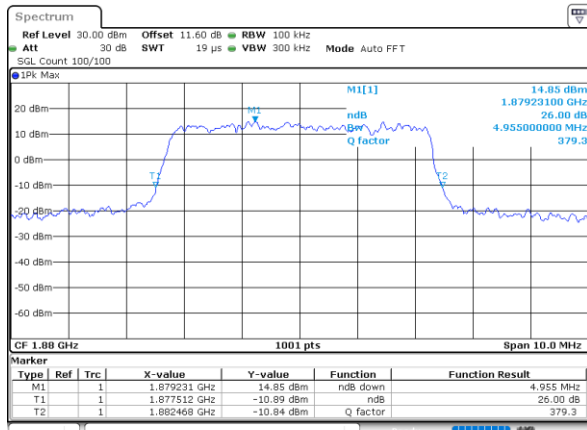
Middle Channel / 1.4MHz / 64QAM



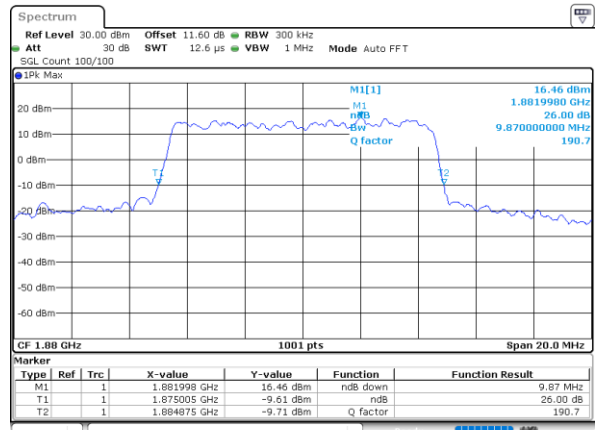
Middle Channel / 3MHz / 64QAM



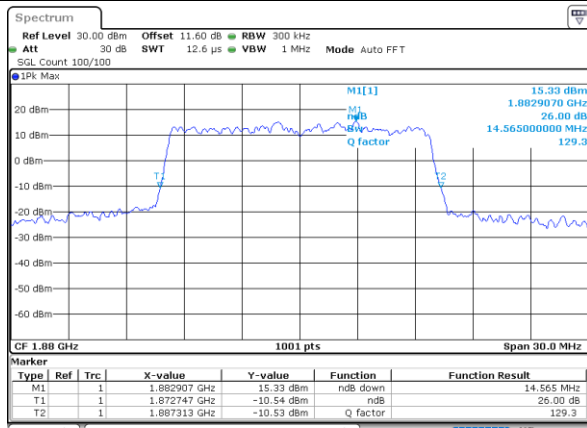
Middle Channel / 5MHz / 64QAM



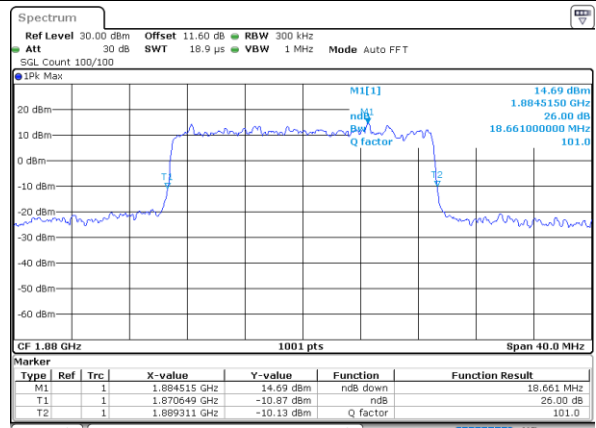
Middle Channel / 10MHz / 64QAM



Middle Channel / 15MHz / 64QAM



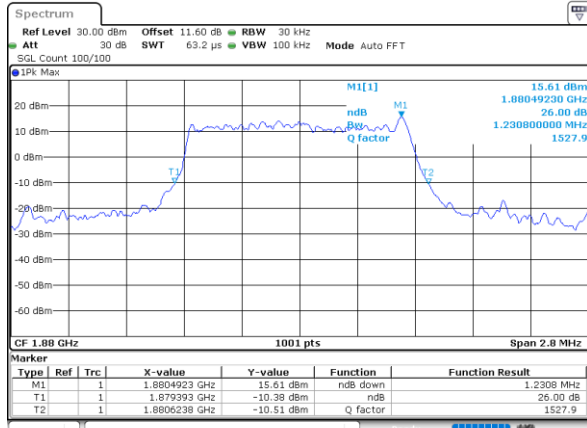
Middle Channel / 20MHz / 64QAM



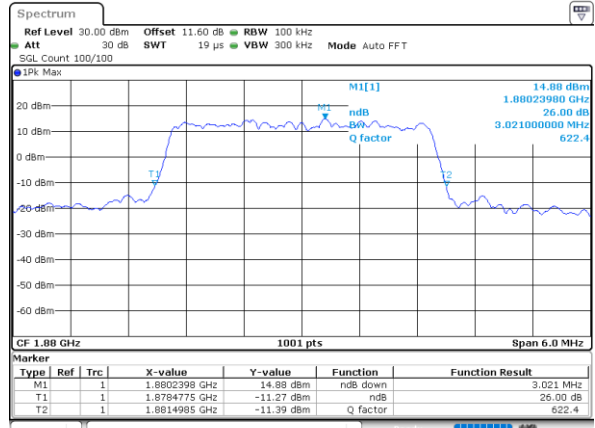


LTE Band 25

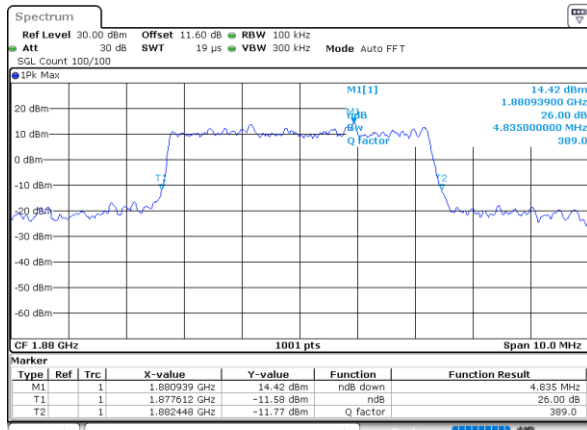
Middle Channel / 1.4MHz / 256QAM



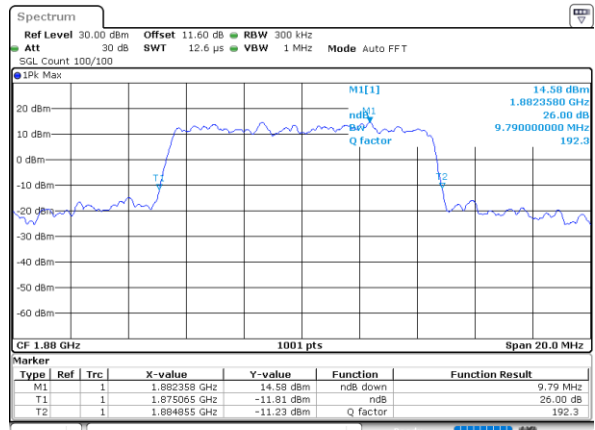
Middle Channel / 3MHz / 256QAM



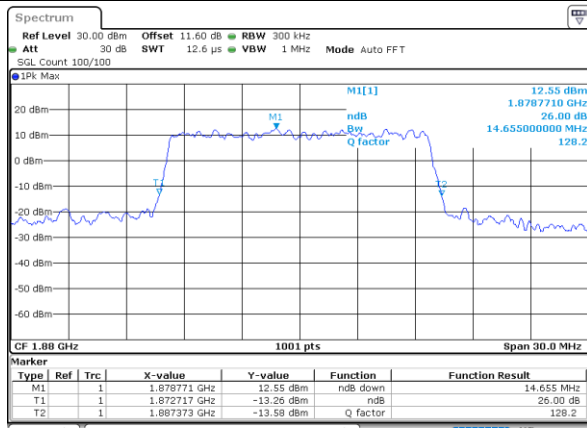
Middle Channel / 5MHz / 256QAM



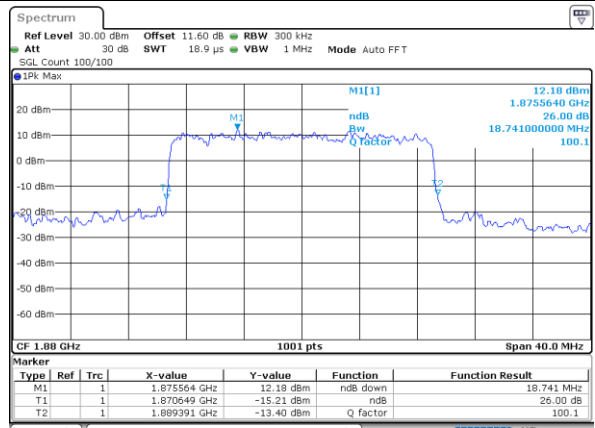
Middle Channel / 10MHz / 256QAM



Middle Channel / 15MHz / 256QAM



Middle Channel / 20MHz / 256QAM



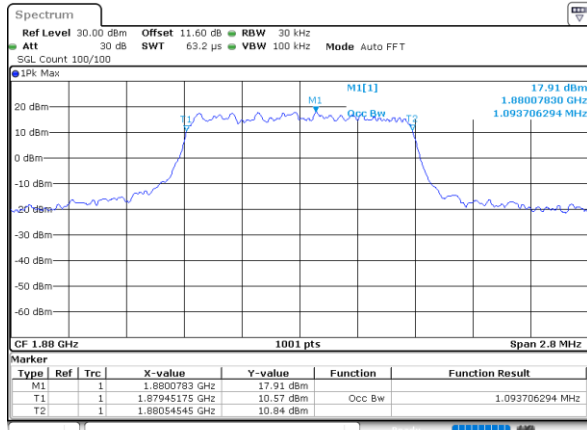
**Occupied Bandwidth**

Mode	LTE Band 25 : 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	1.09	1.10	2.72	2.72	4.49	4.49	9.07	9.07	13.43	13.40	17.82	17.86
Mode	LTE Band 25 : 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	1.11	1.09	2.73	2.72	4.50	4.49	9.11	9.07	13.49	13.37	17.86	17.90

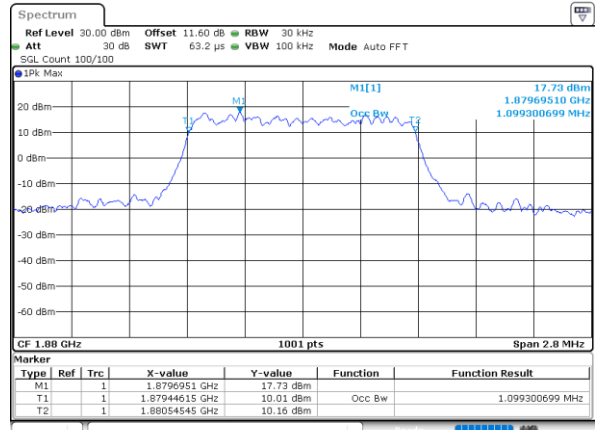


LTE Band 25

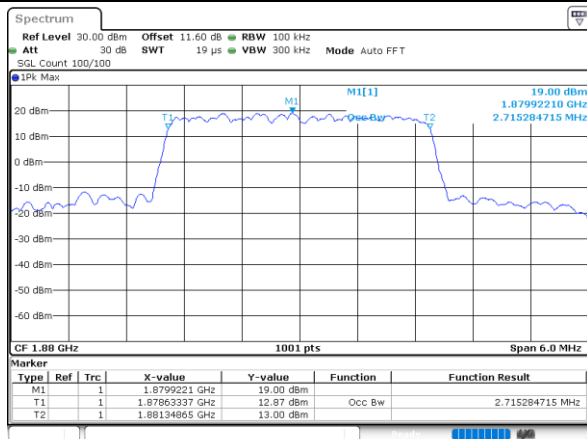
Middle Channel / 1.4MHz / QPSK



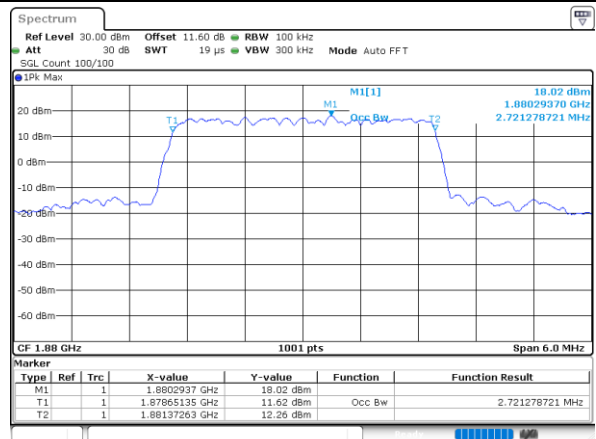
Middle Channel / 1.4MHz / 16QAM



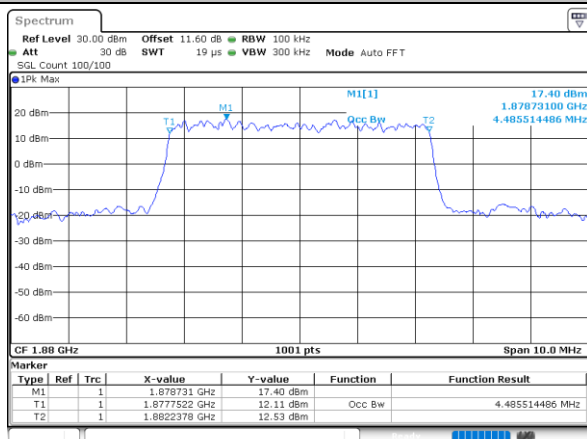
Middle Channel / 3MHz / QPSK



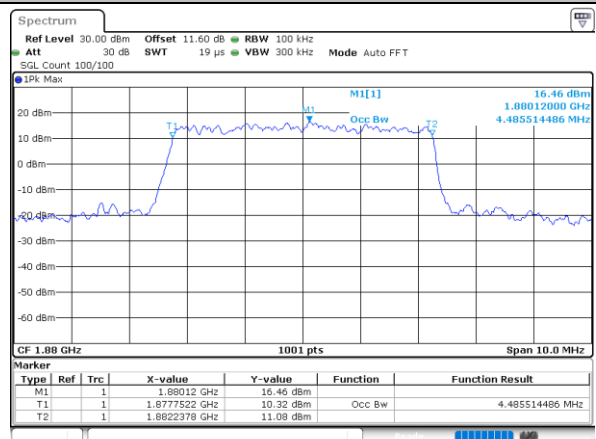
Middle Channel / 3MHz / 16QAM



Middle Channel / 5MHz / QPSK



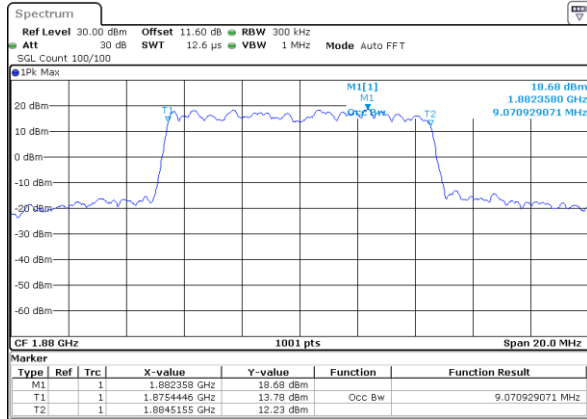
Middle Channel / 5MHz / 16QAM





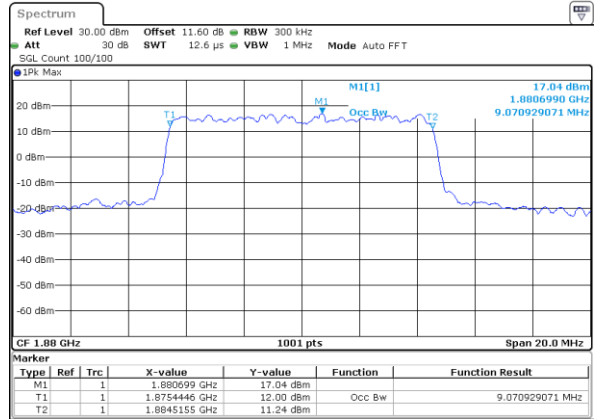
LTE Band 25

Middle Channel / 10MHz / QPSK



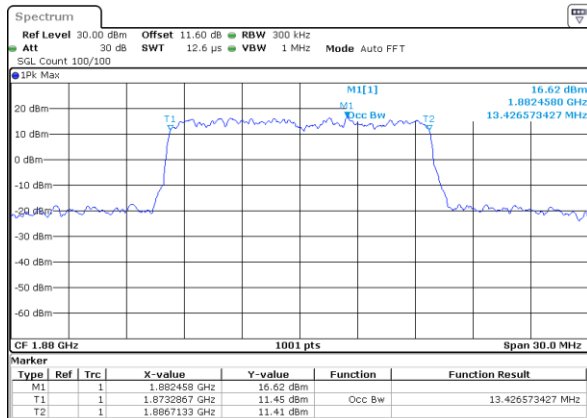
Date: 28.DEC.2022 16:47:04

Middle Channel / 10MHz / 16QAM



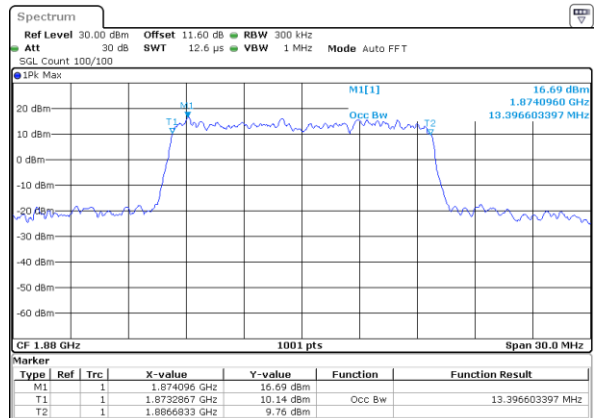
Date: 28.DEC.2022 16:47:133

Middle Channel / 15MHz / QPSK



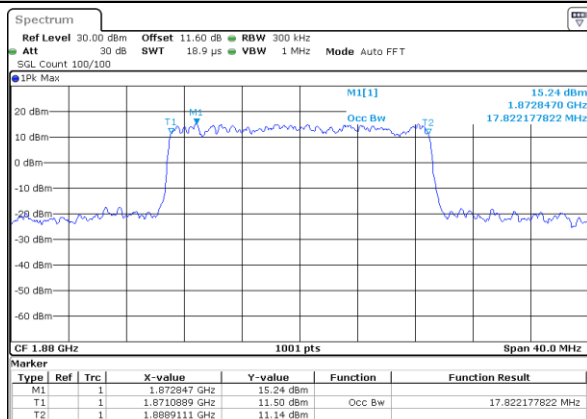
Date: 28.DEC.2022 17:00:17

Middle Channel / 15MHz / 16QAM



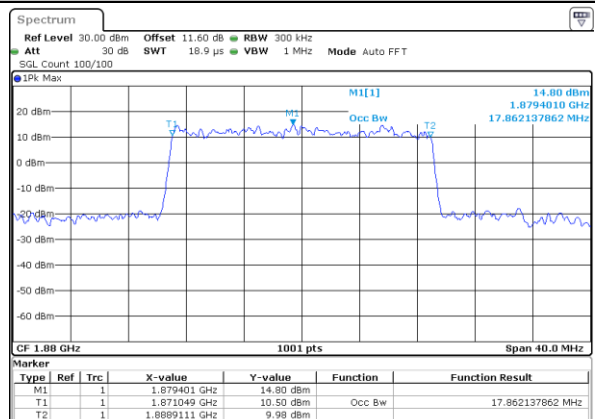
Date: 28.DEC.2022 17:00:146

Middle Channel / 20MHz / QPSK



Date: 28.DEC.2022 17:06:14

Middle Channel / 20MHz / 16QAM

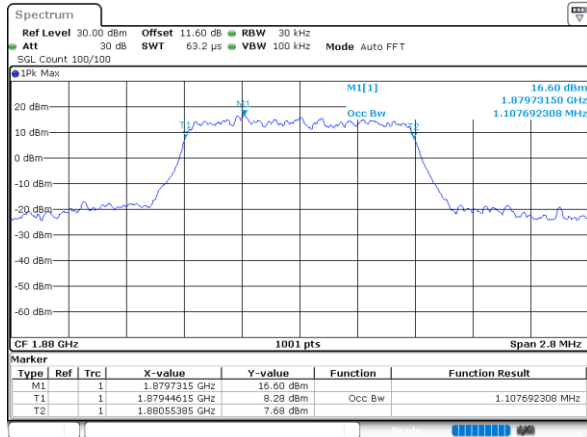


Date: 28.DEC.2022 17:06:144

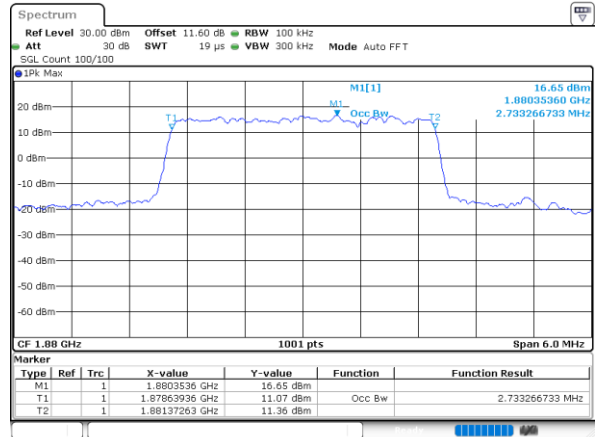


LTE Band 25

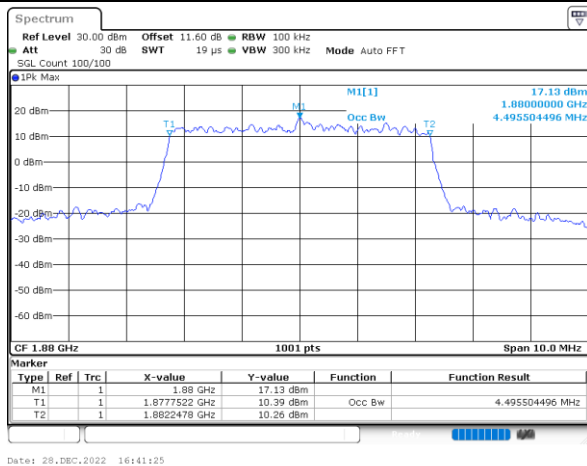
Middle Channel / 1.4MHz / 64QAM



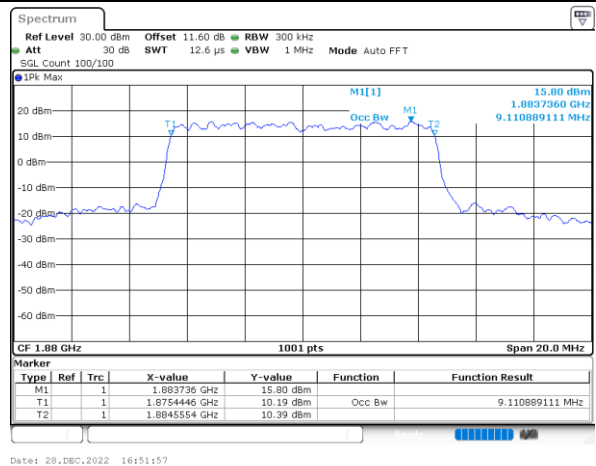
Middle Channel / 3MHz / 64QAM



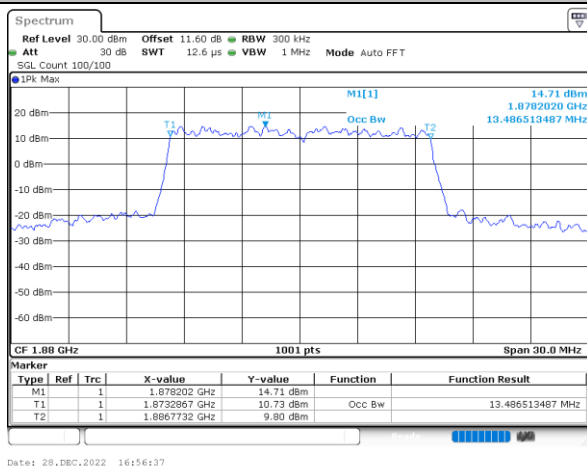
Middle Channel / 5MHz / 64QAM



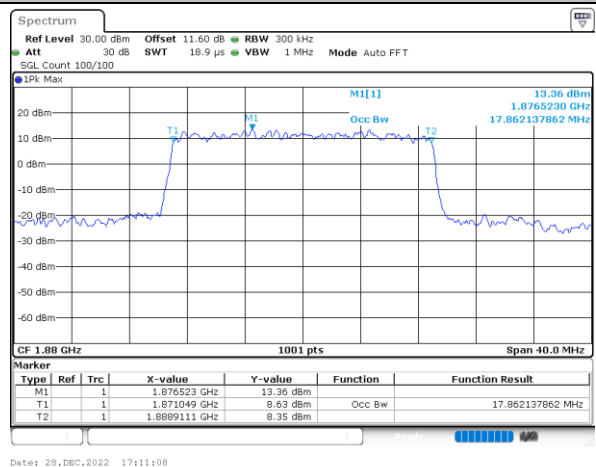
Middle Channel / 10MHz / 64QAM



Middle Channel / 15MHz / 64QAM



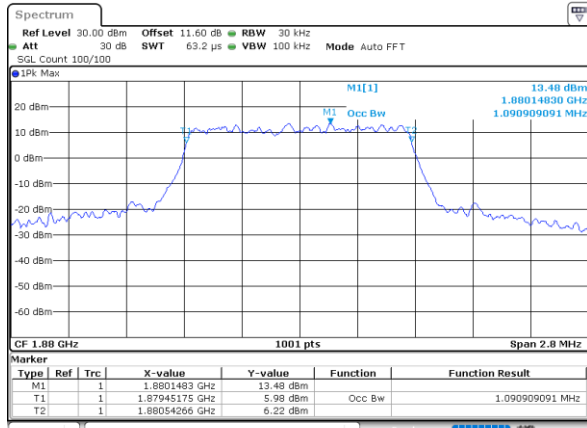
Middle Channel / 20MHz / 64QAM





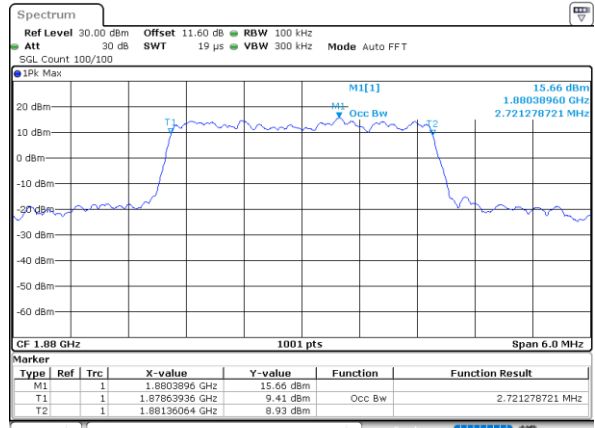
LTE Band 25

Middle Channel / 1.4MHz / 256QAM



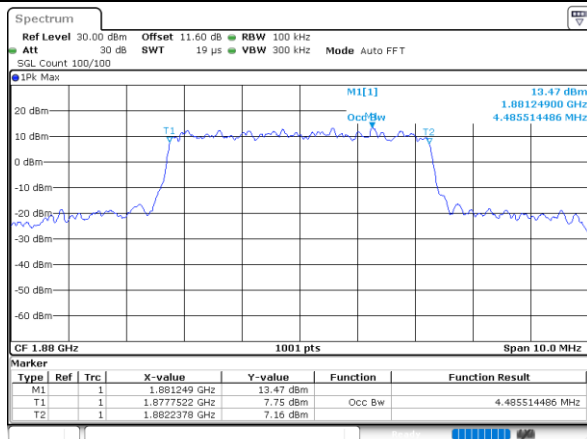
Date: 28.DEC.2022 17:16:25

Middle Channel / 3MHz / 256QAM



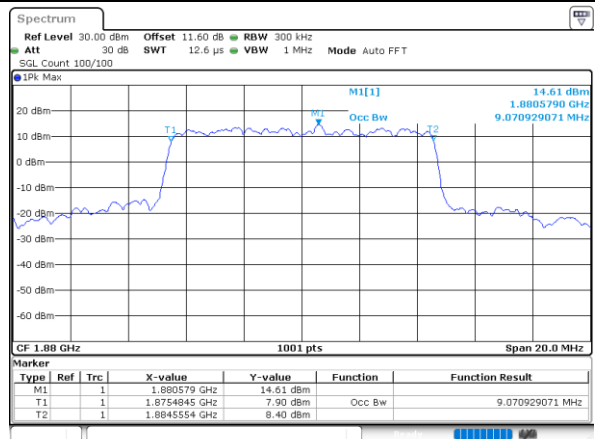
Date: 28.DEC.2022 17:20:09

Middle Channel / 5MHz / 256QAM



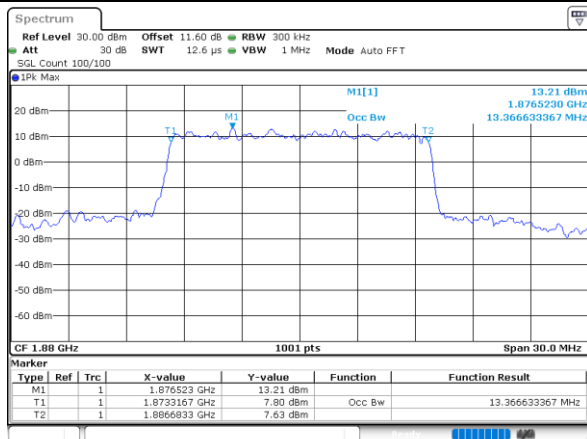
Date: 28.DEC.2022 17:22:55

Middle Channel / 10MHz / 256QAM



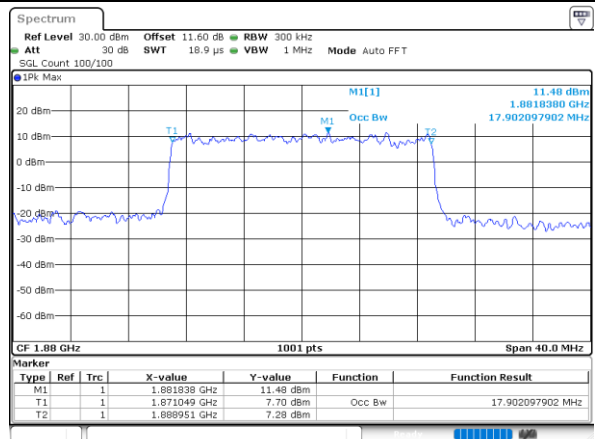
Date: 28.DEC.2022 17:25:41

Middle Channel / 15MHz / 256QAM



Date: 28.DEC.2022 17:28:27

Middle Channel / 20MHz / 256QAM



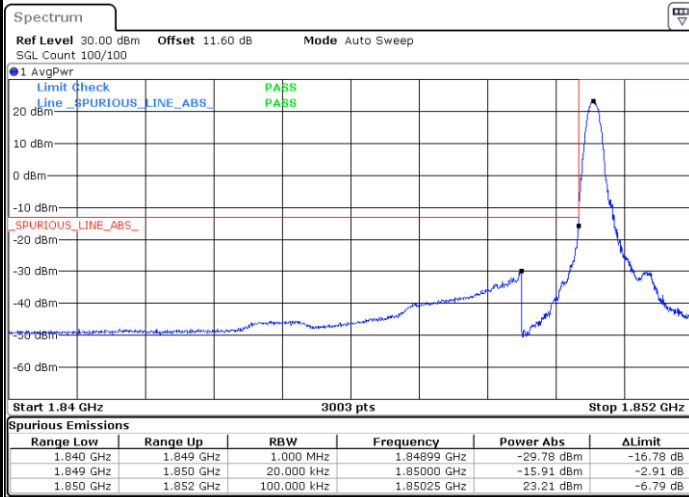
Date: 28.DEC.2022 17:31:13



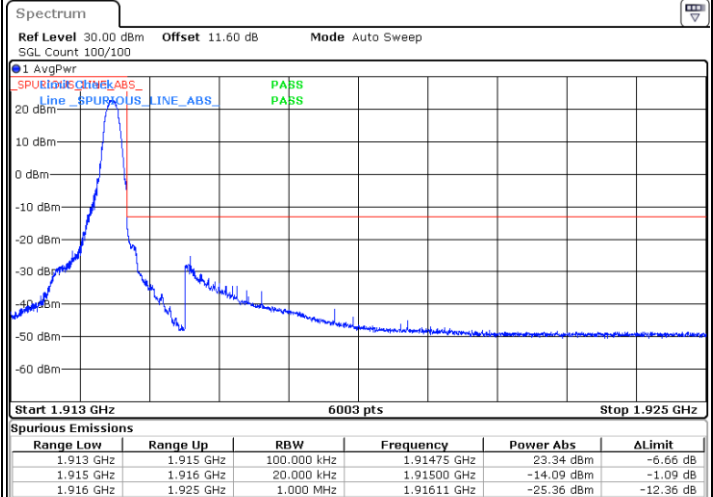
Conducted Band Edge

LTE Band 25 / 1.4MHz / QPSK

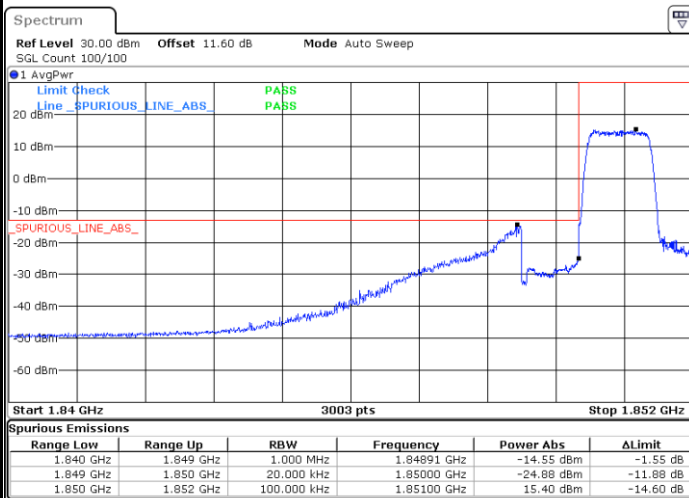
Lowest Band Edge / 1RB



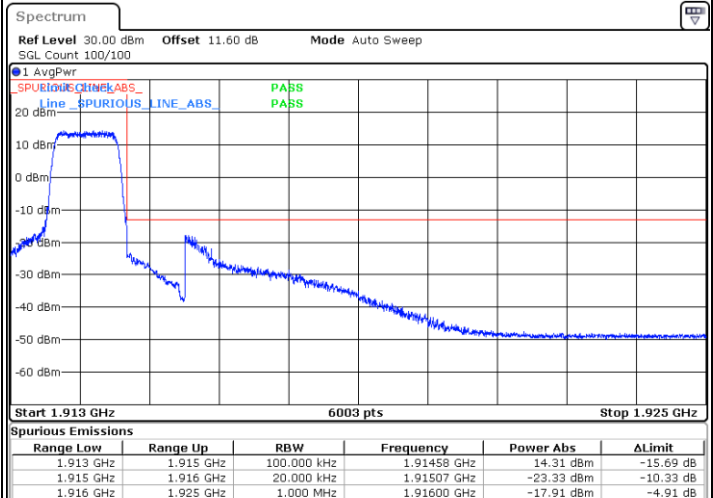
Highest Band Edge / 1RB



Lowest Band Edge / Full RB



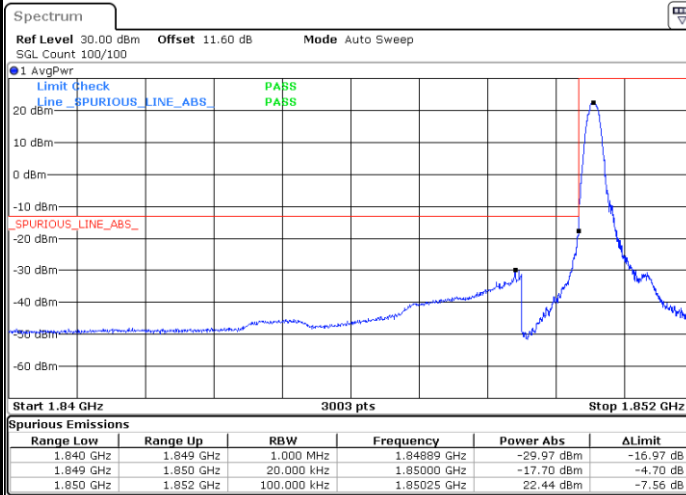
Highest Band Edge / Full RB



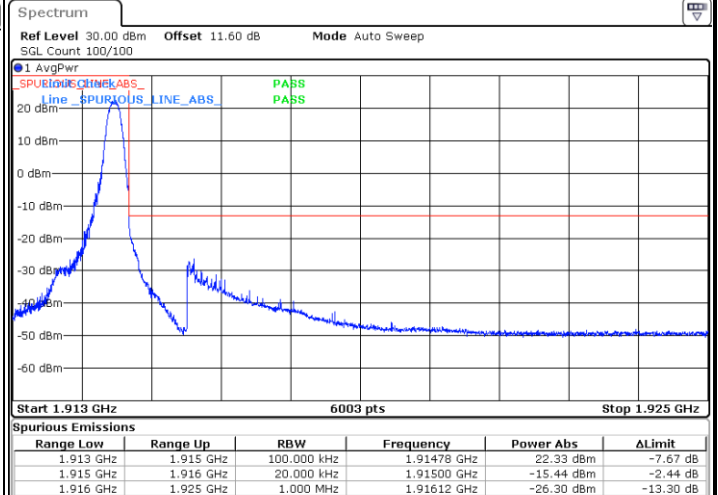


LTE Band 25 / 1.4MHz / 16QAM

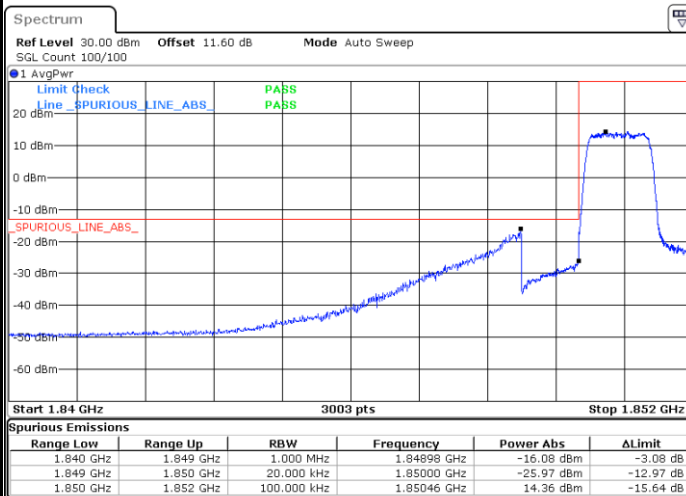
Lowest Band Edge / 1 RB



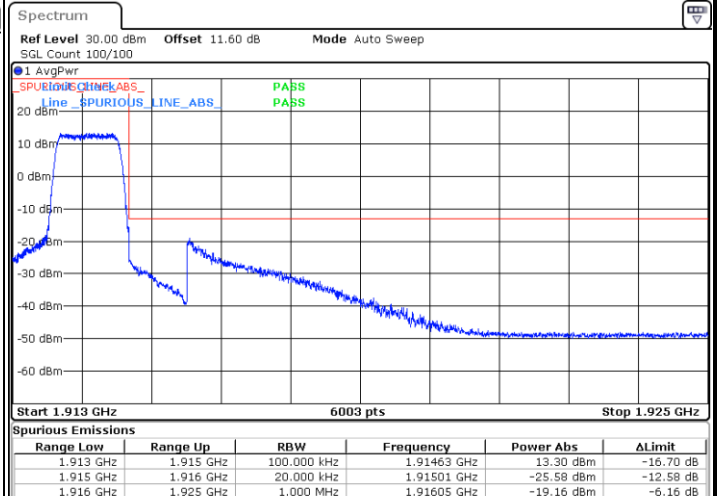
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



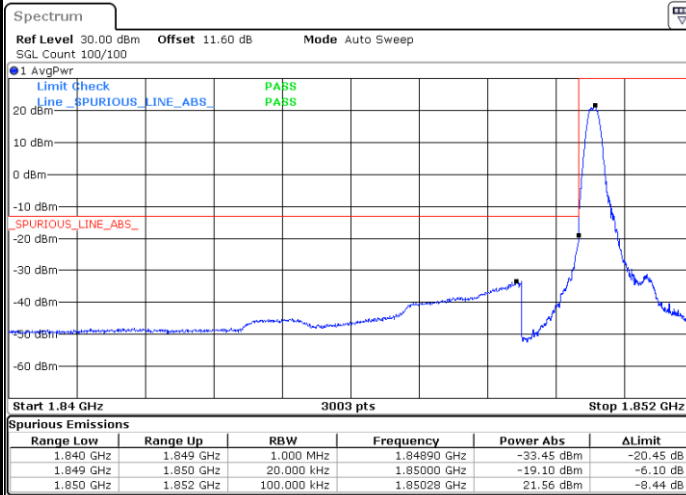
Highest Band Edge / Full RB



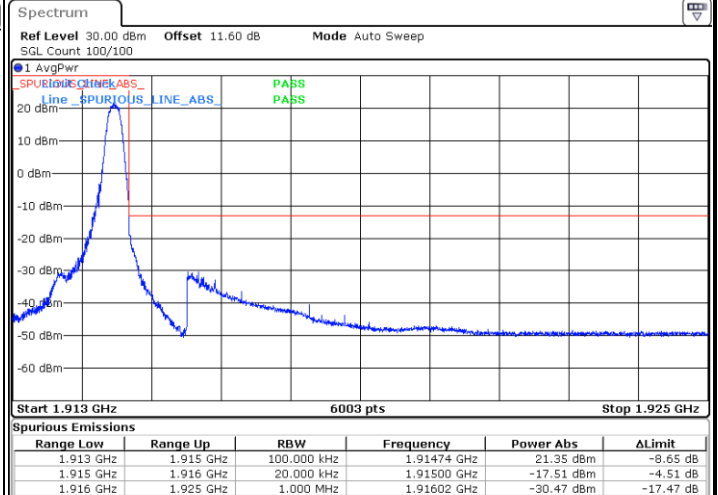


LTE Band 25 / 1.4MHz / 64QAM

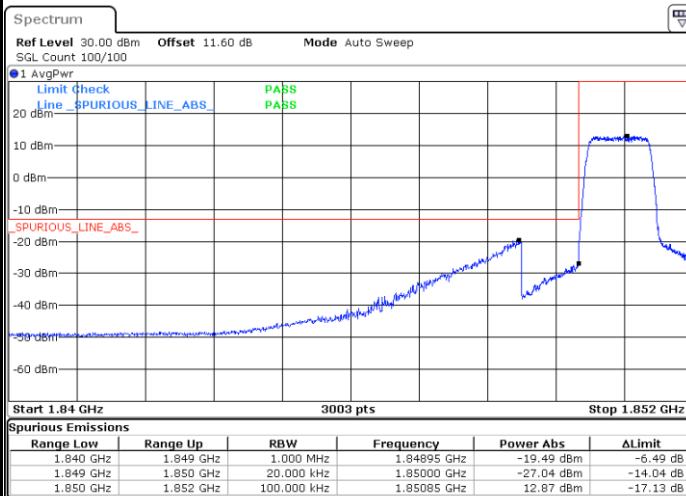
Lowest Band Edge / 1 RB



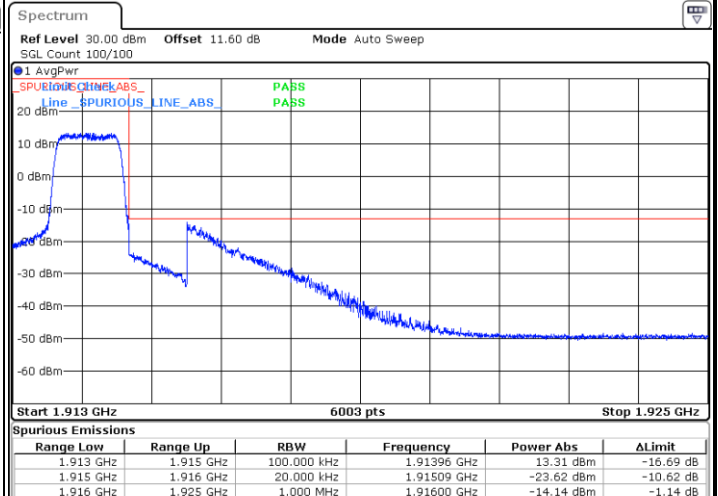
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



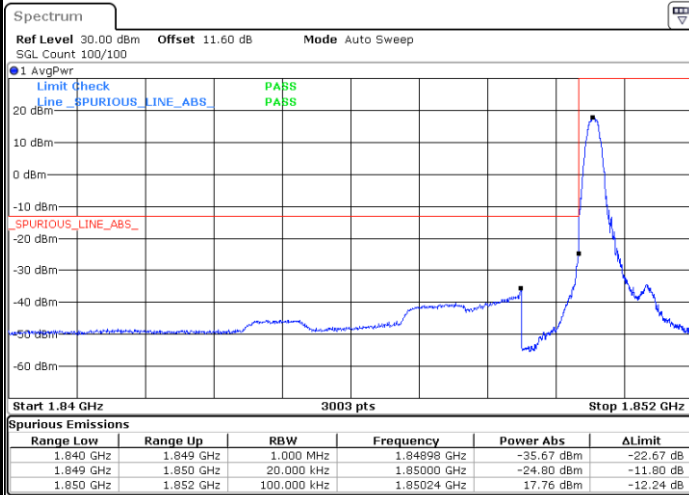
Highest Band Edge / Full RB



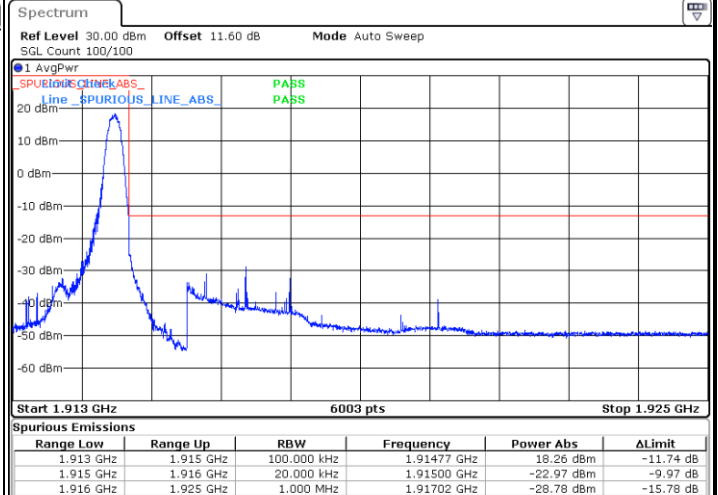


LTE Band 25 / 1.4MHz / 256QAM

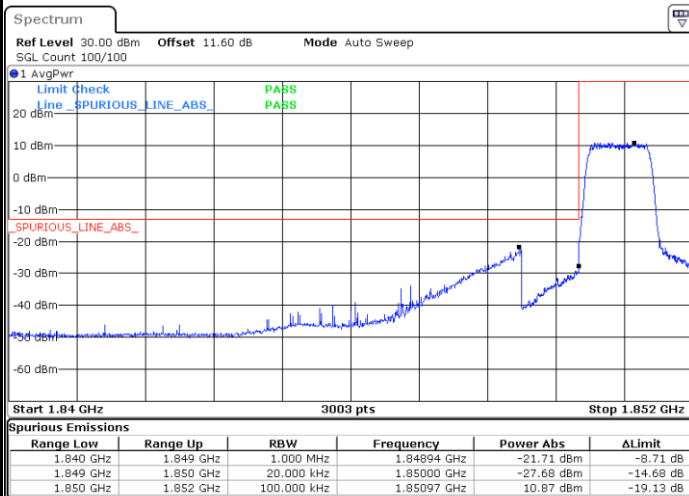
Lowest Band Edge / 1 RB



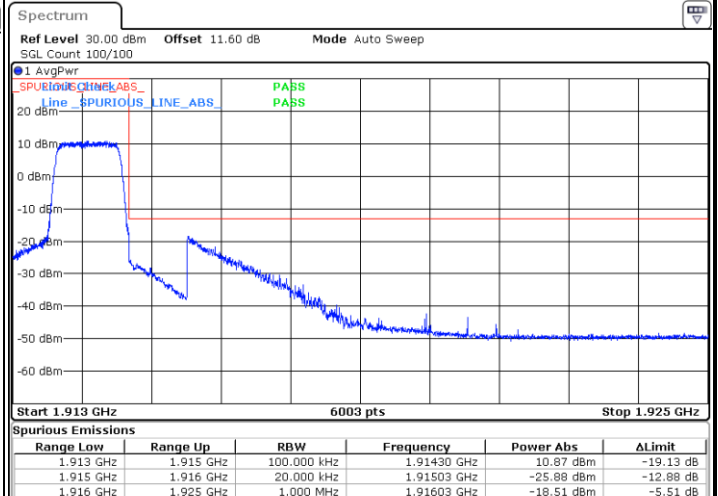
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



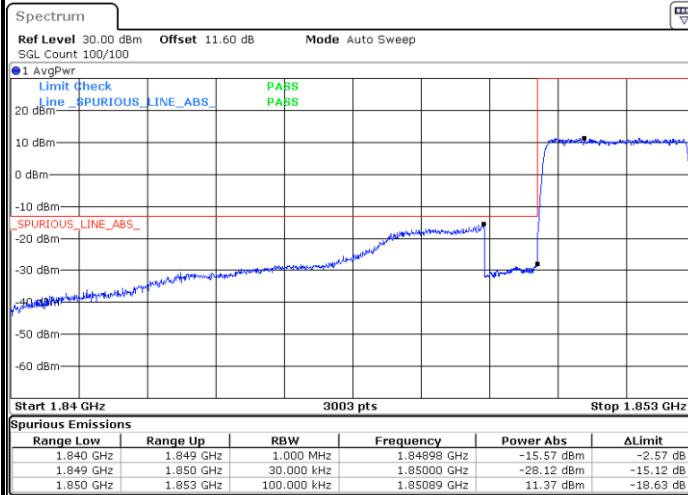
Highest Band Edge / Full RB



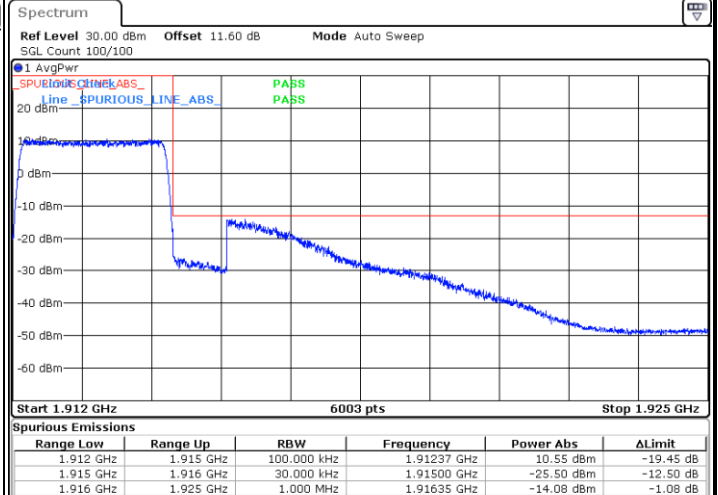


LTE Band 25 / 3MHz / QPSK

Lowest Band Edge / Full RB

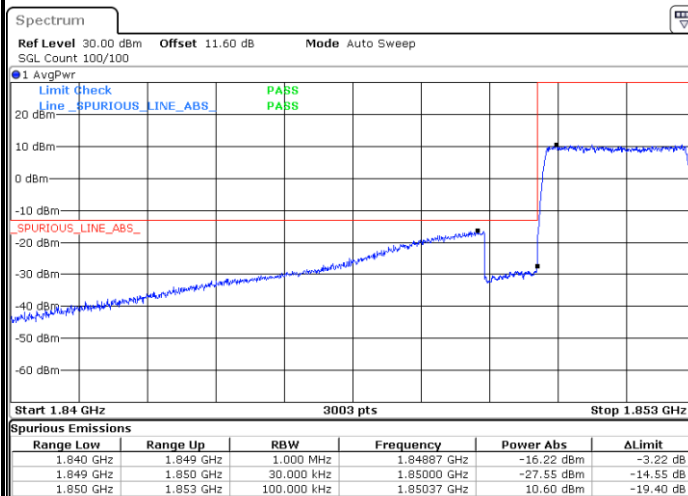


Highest Band Edge / Full RB

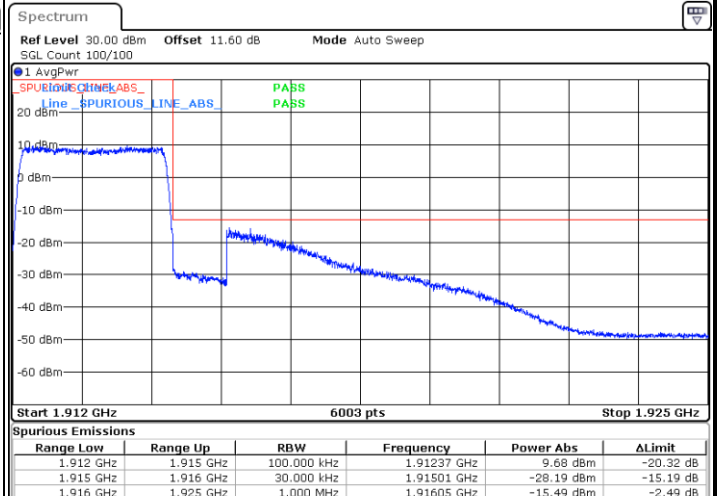


LTE Band 25 / 3MHz / 16QAM

Lowest Band Edge / Full RB



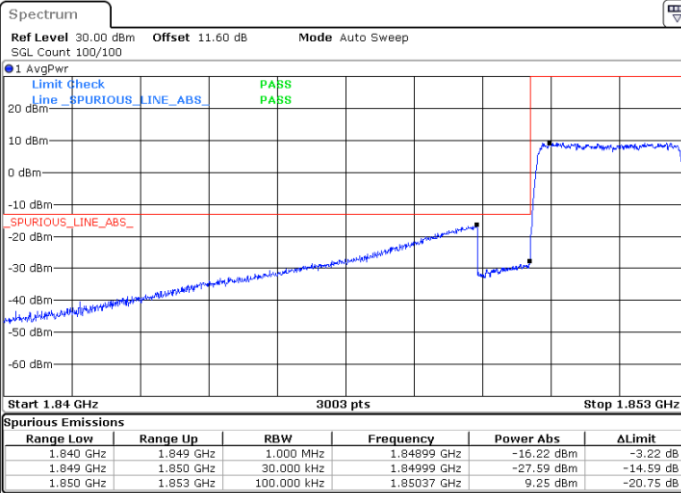
Highest Band Edge / Full RB



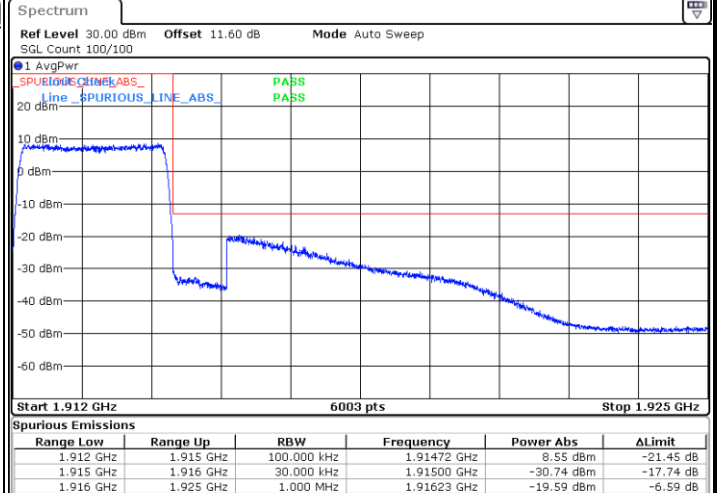


LTE Band 25 / 3MHz / 64QAM

Lowest Band Edge / Full RB

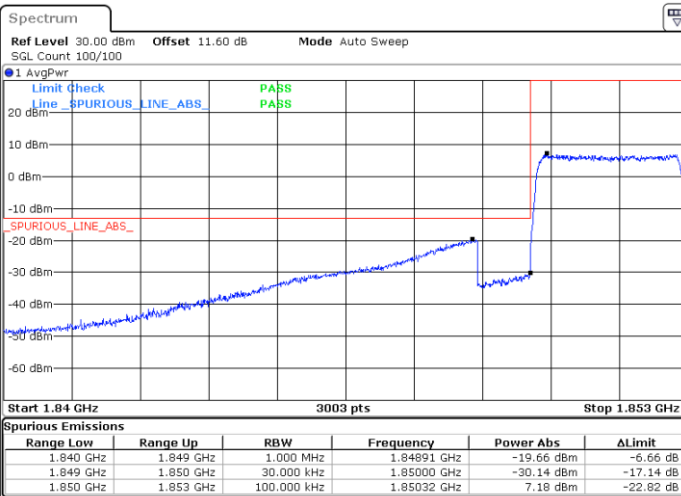


Highest Band Edge / Full RB

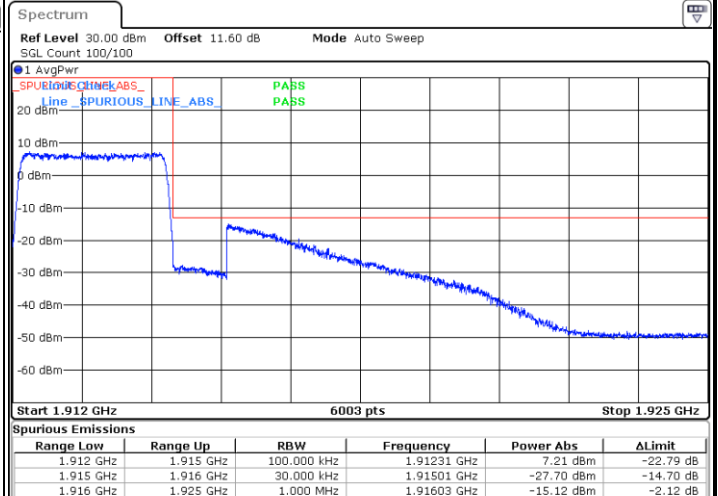


LTE Band 25 / 3MHz / 256QAM

Lowest Band Edge / Full RB



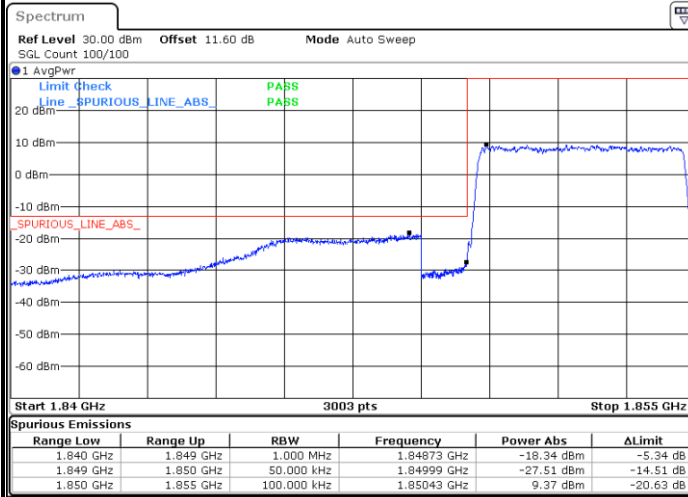
Highest Band Edge / Full RB



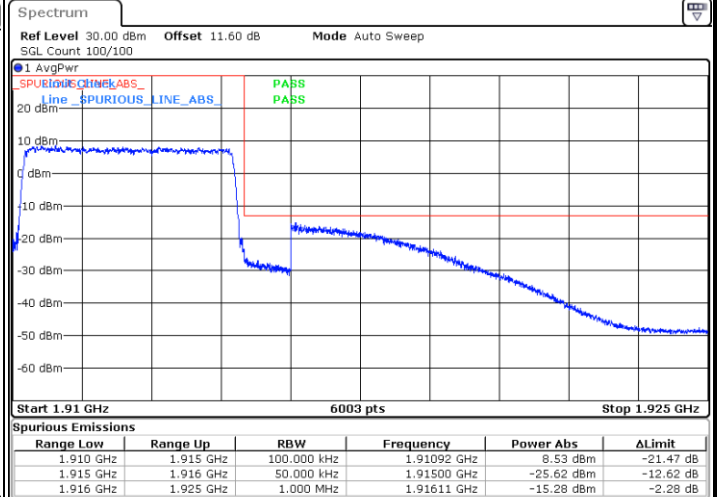


LTE Band 25 / 5MHz / QPSK

Lowest Band Edge / Full RB

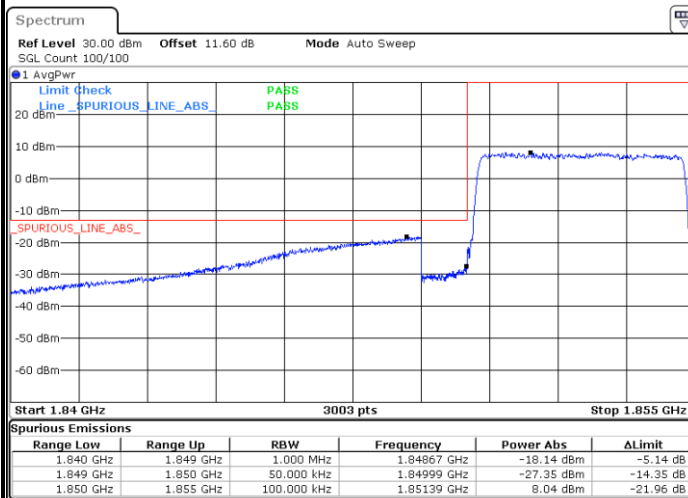


Highest Band Edge / Full RB

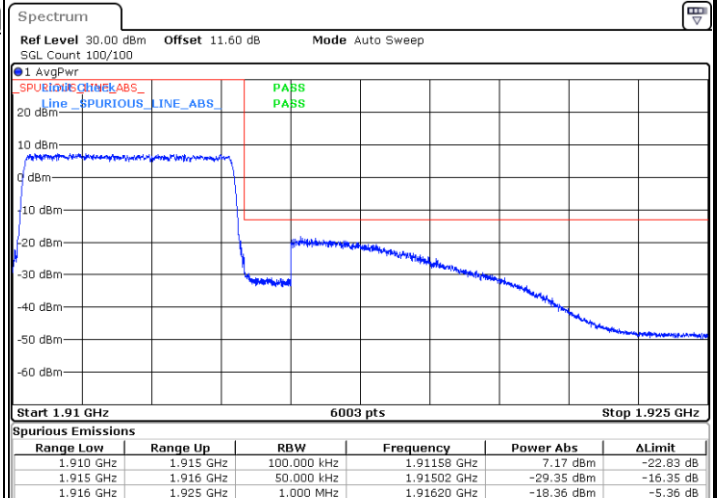


LTE Band 25 / 5MHz / 16QAM

Lowest Band Edge / Full RB



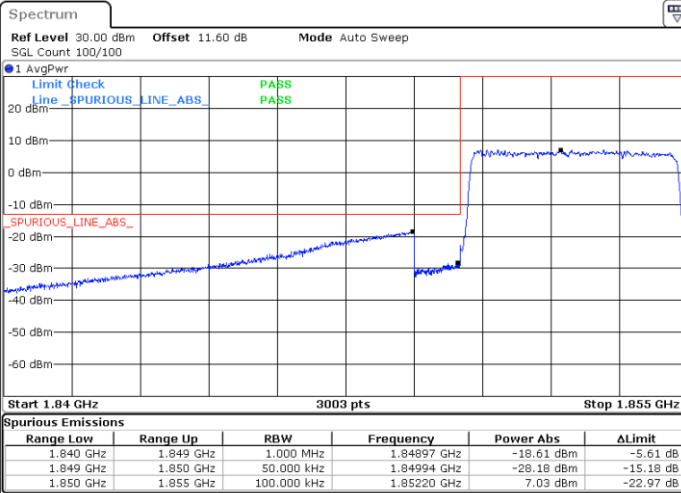
Highest Band Edge / Full RB



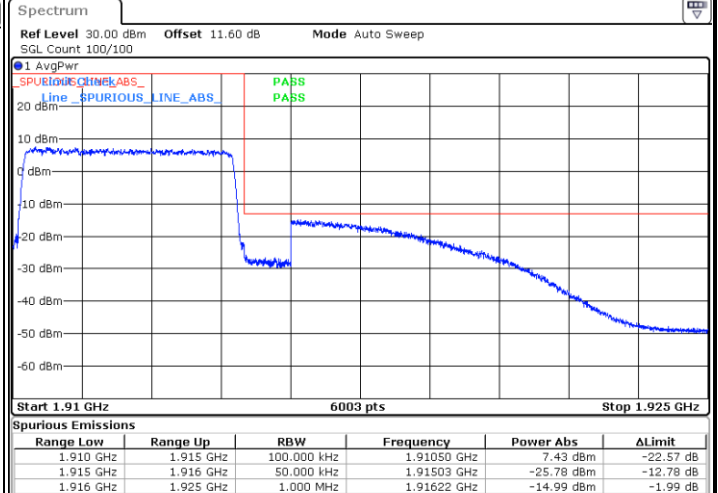


LTE Band 25 / 5MHz / 64QAM

Lowest Band Edge / Full RB

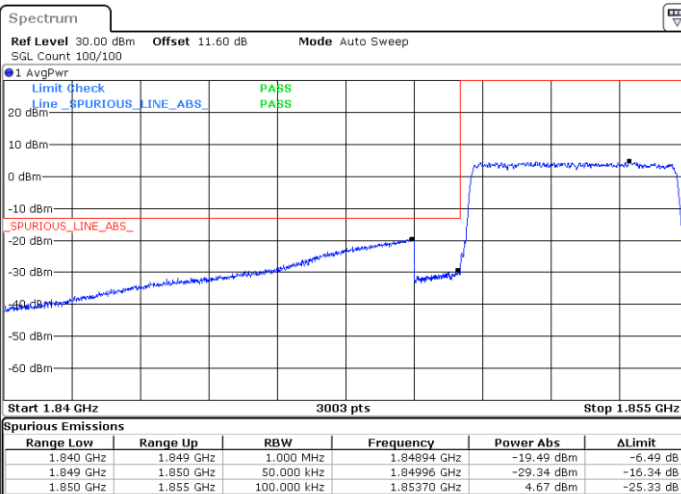


Highest Band Edge / Full RB

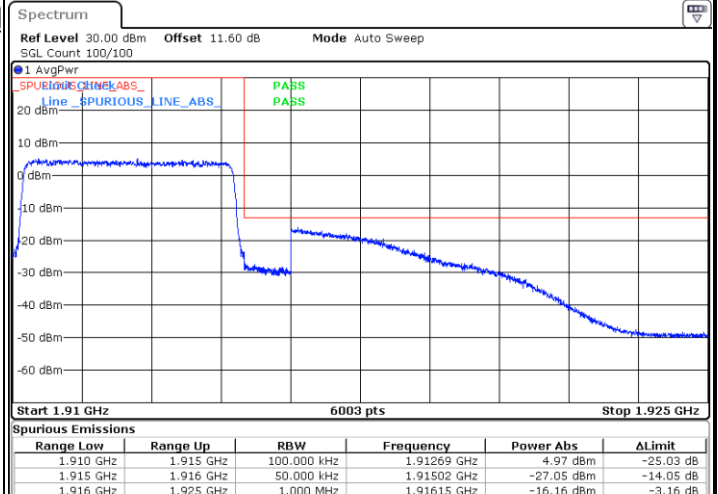


LTE Band 25 / 5MHz / 256QAM

Lowest Band Edge / Full RB



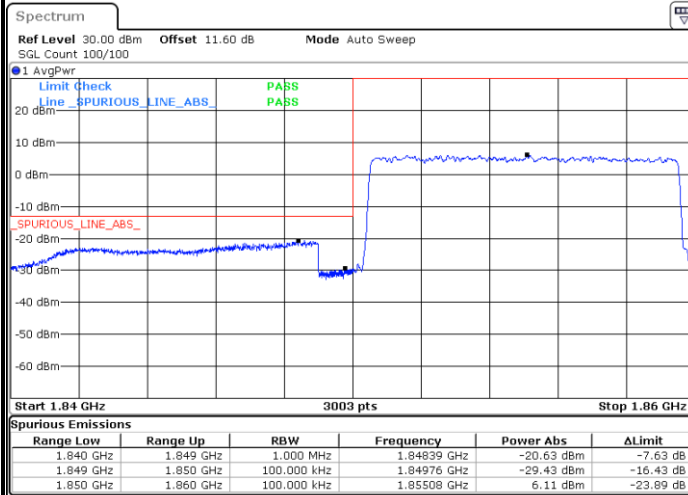
Highest Band Edge / Full RB



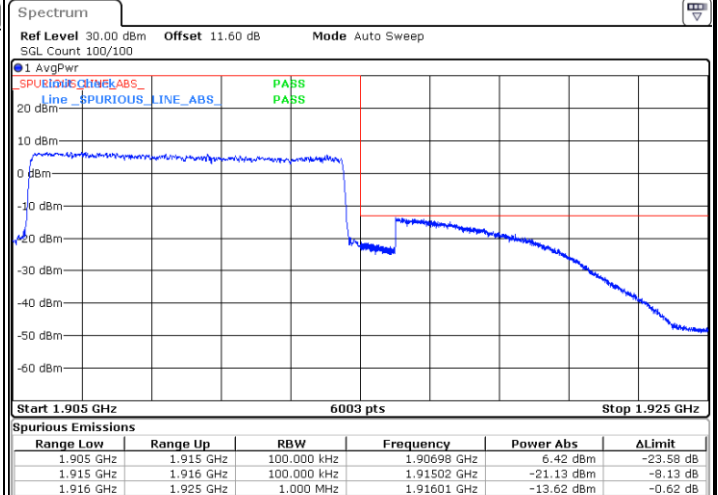


LTE Band 25 / 10MHz / QPSK

Lowest Band Edge / Full RB

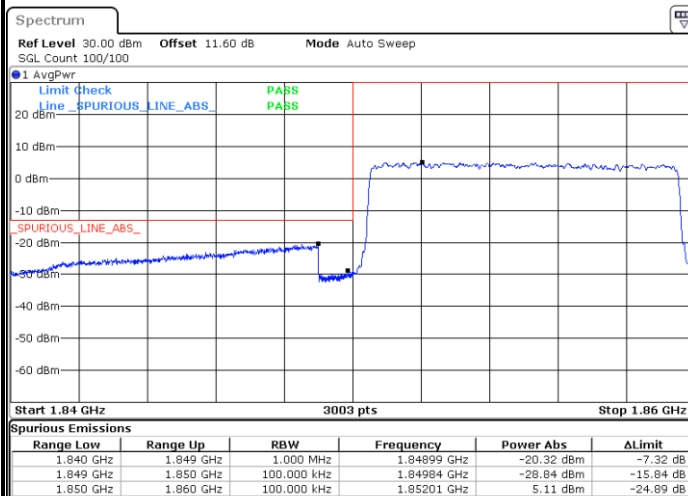


Highest Band Edge / Full RB

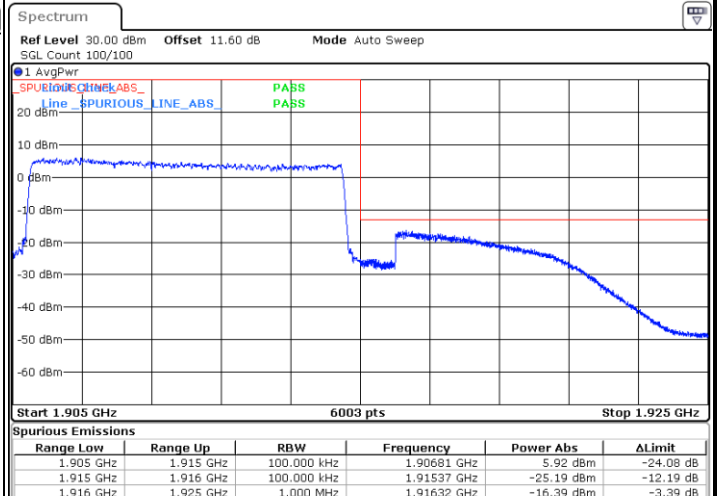


LTE Band 25 / 10MHz / 16QAM

Lowest Band Edge / Full RB



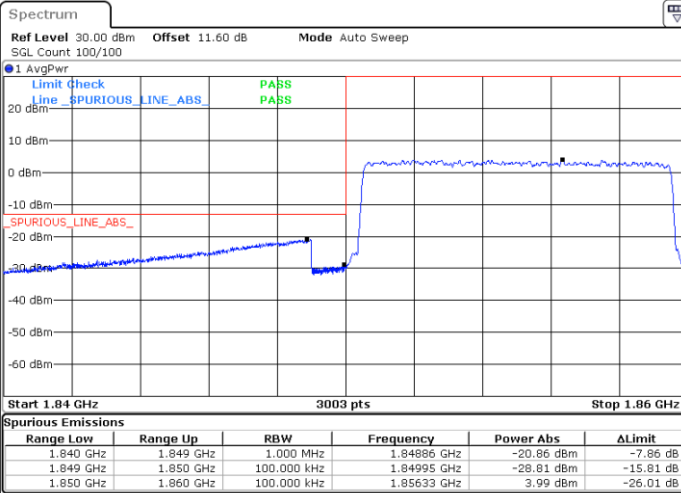
Highest Band Edge / Full RB



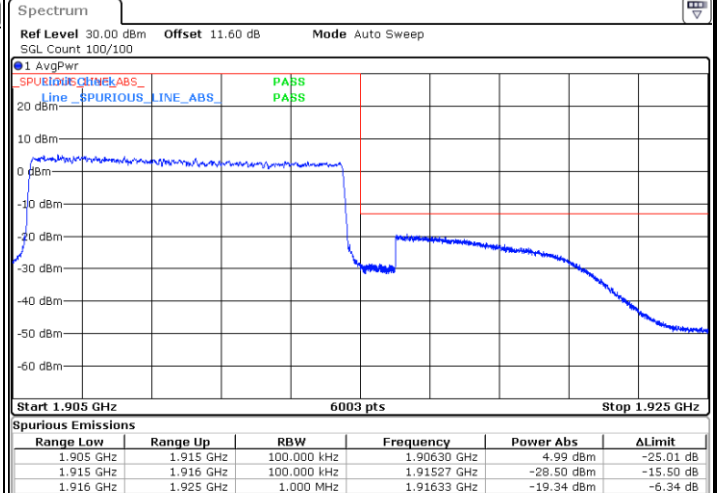


LTE Band 25 / 10MHz / 64QAM

Lowest Band Edge / Full RB

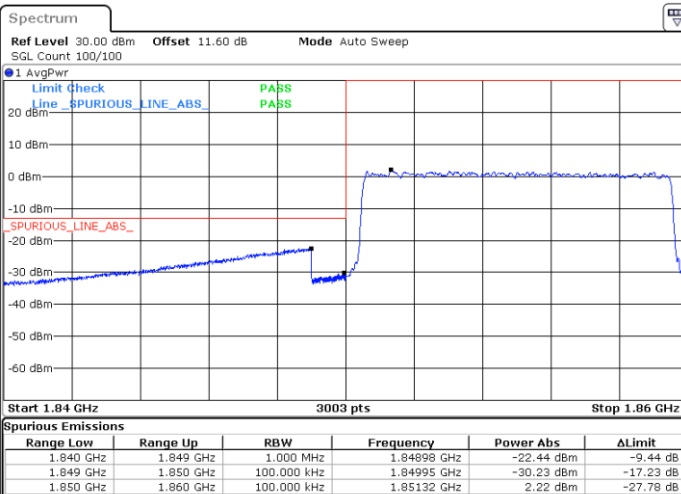


Highest Band Edge / Full RB

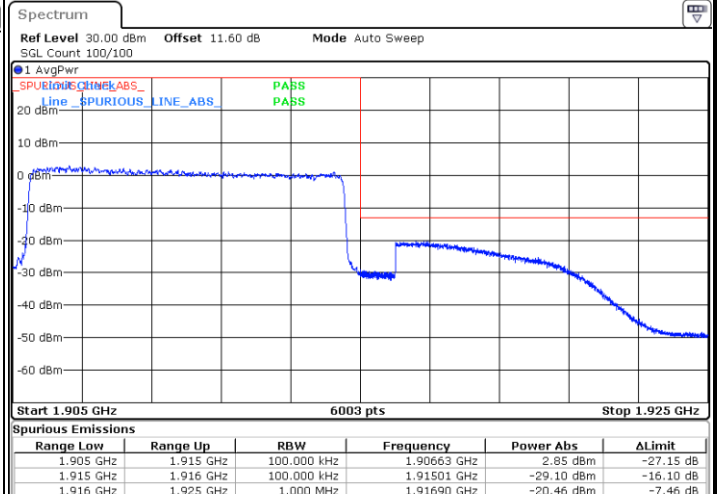


LTE Band 25 / 10MHz / 256QAM

Lowest Band Edge / Full RB



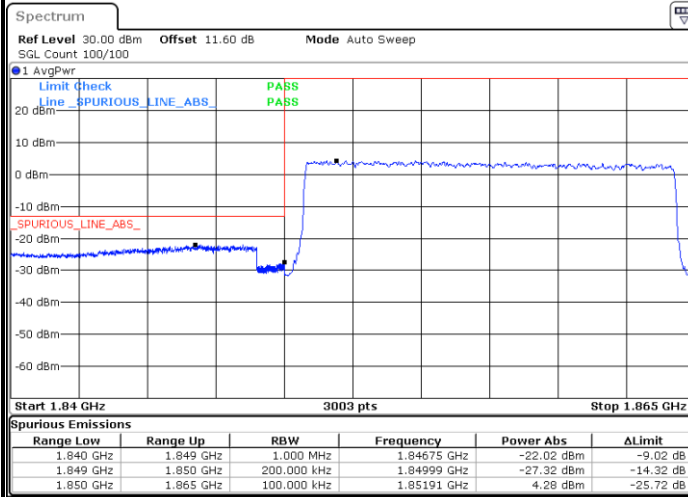
Highest Band Edge / Full RB



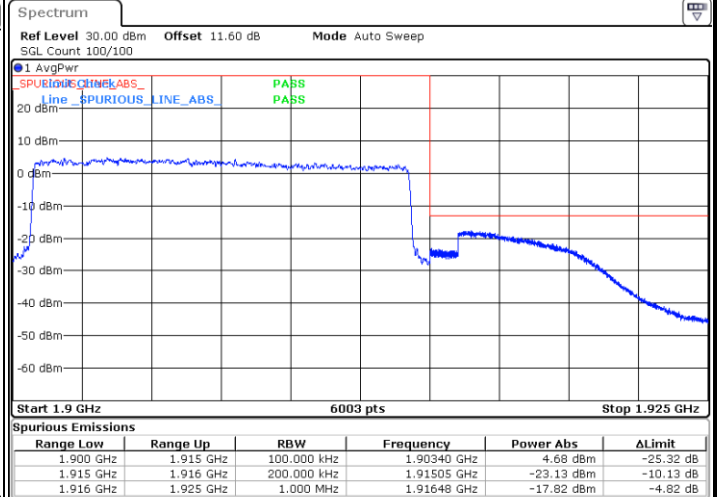


LTE Band 25 / 15MHz / QPSK

Lowest Band Edge / Full RB

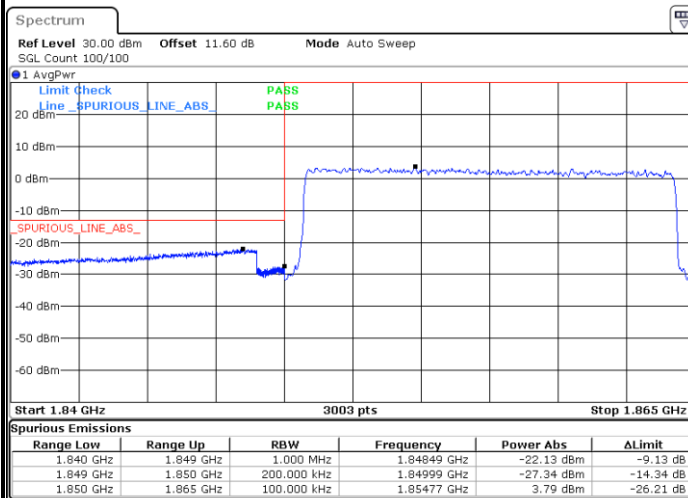


Highest Band Edge / Full RB

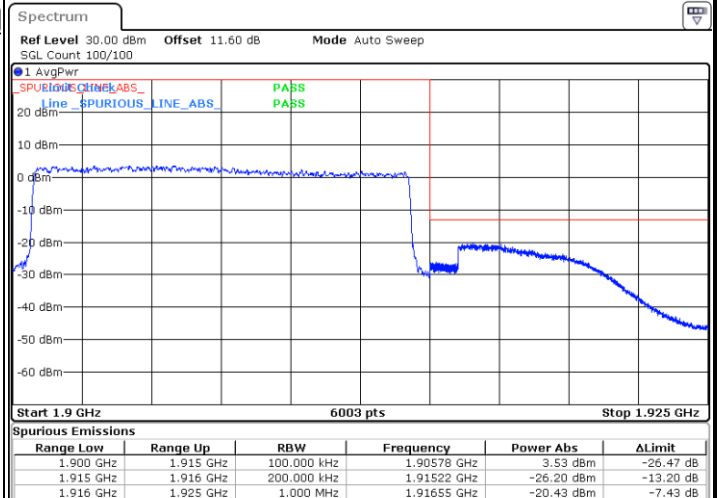


LTE Band 25 / 15MHz / 16QAM

Lowest Band Edge / Full RB



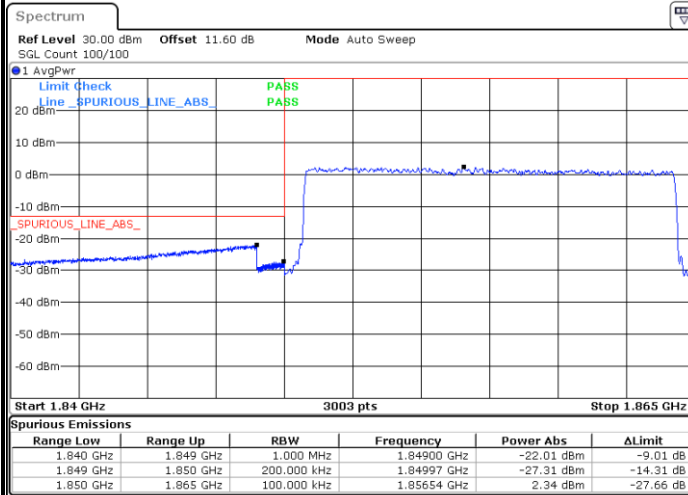
Highest Band Edge / Full RB



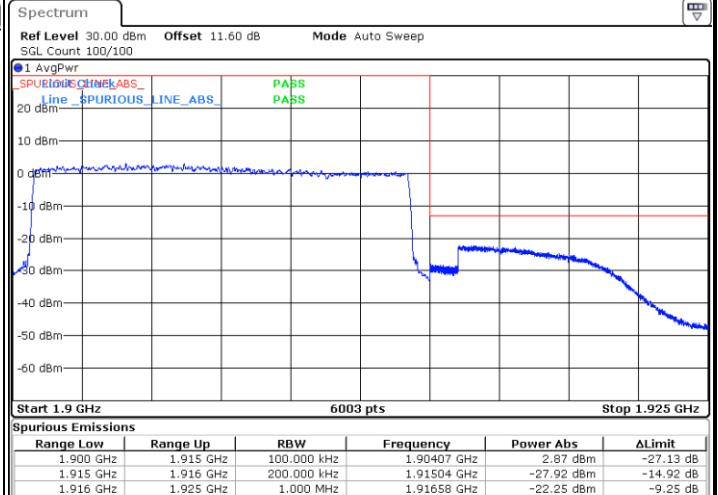


LTE Band 25 / 15MHz / 64QAM

Lowest Band Edge / Full RB

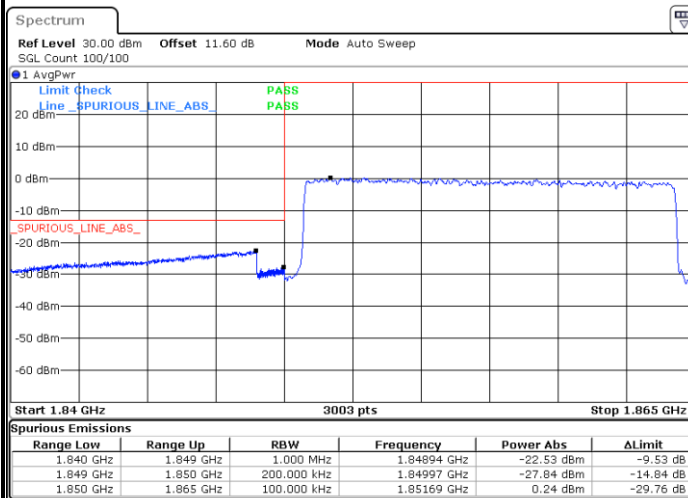


Highest Band Edge / Full RB

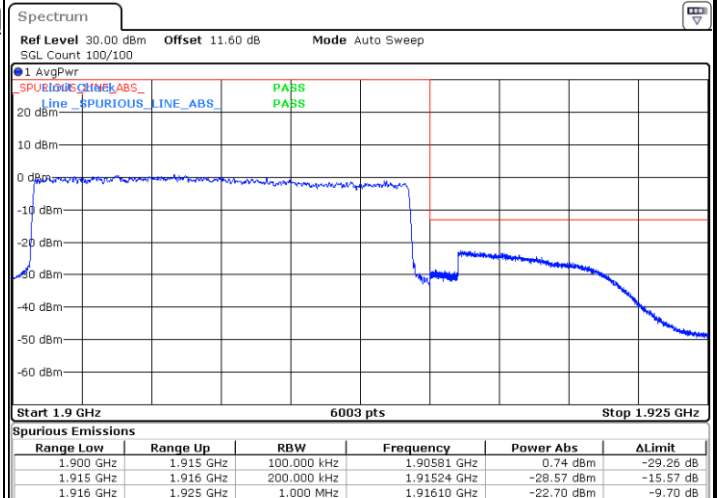


LTE Band 25 / 15MHz / 256QAM

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

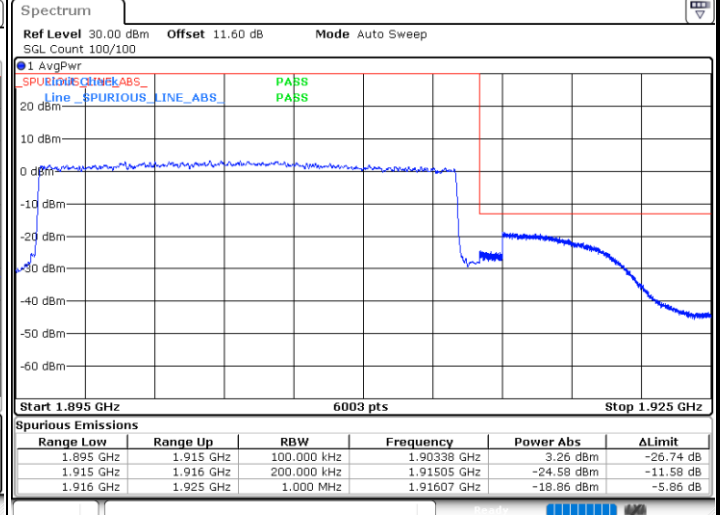
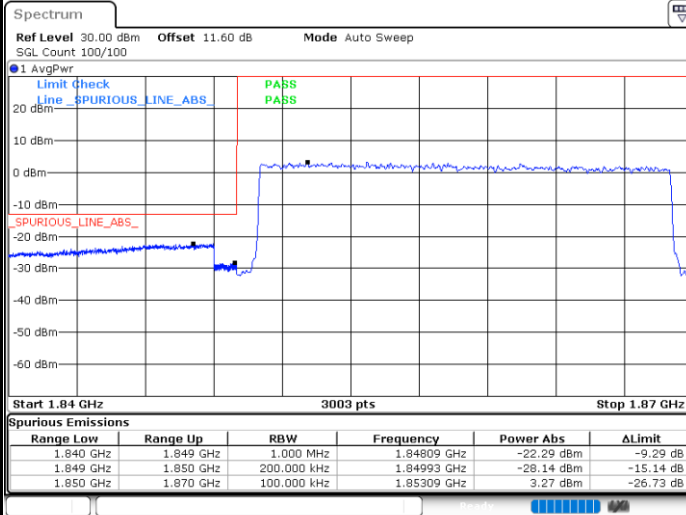




LTE Band 25 / 20MHz / QPSK

Lowest Band Edge / Full RB

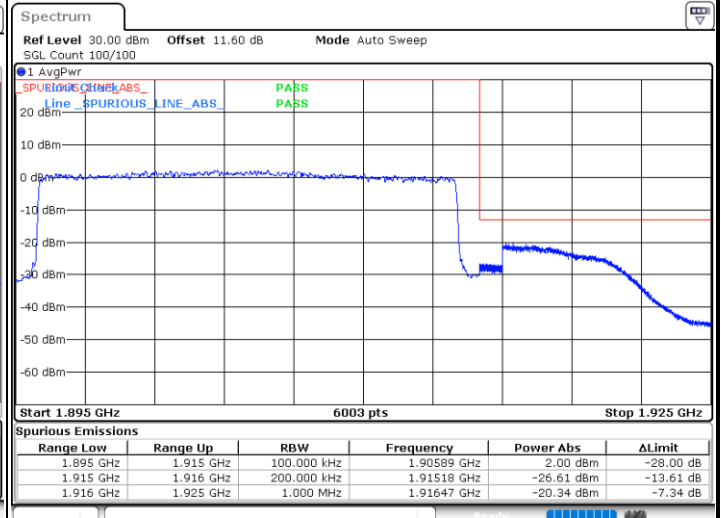
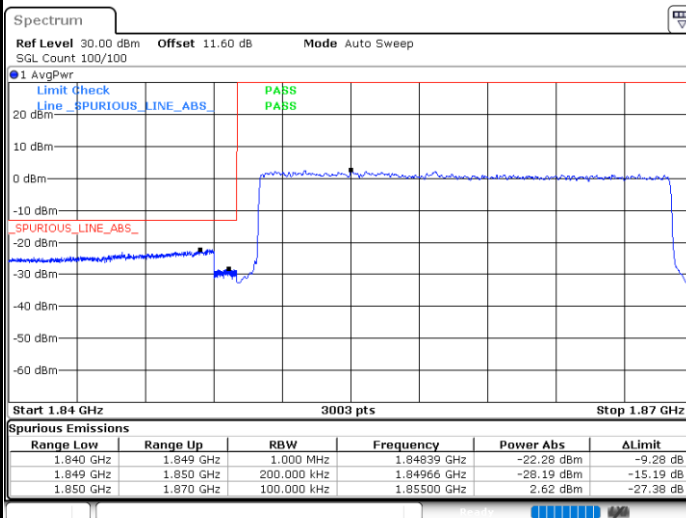
Highest Band Edge / Full RB



LTE Band 25 / 20MHz / 16QAM

Lowest Band Edge / Full RB

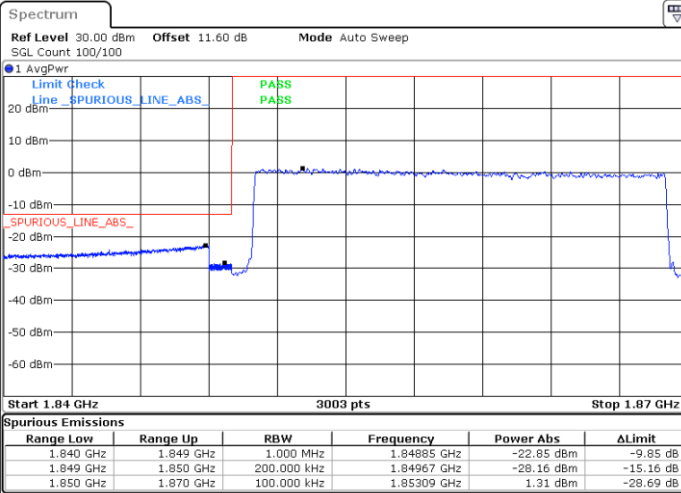
Highest Band Edge / Full RB



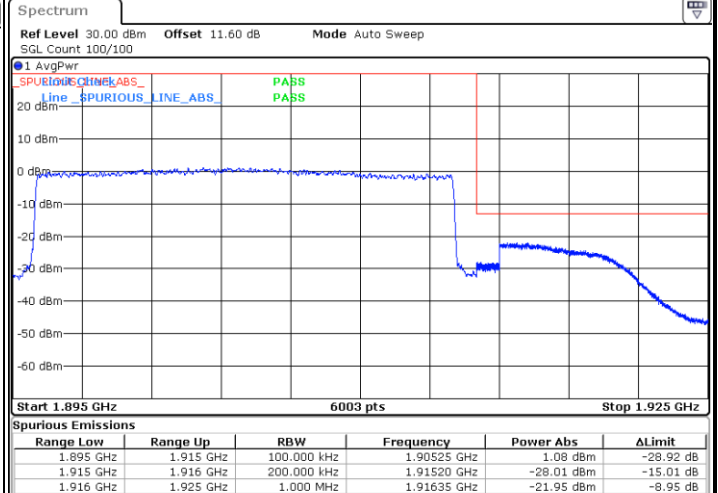


LTE Band 25 / 20MHz / 64QAM

Lowest Band Edge / Full RB

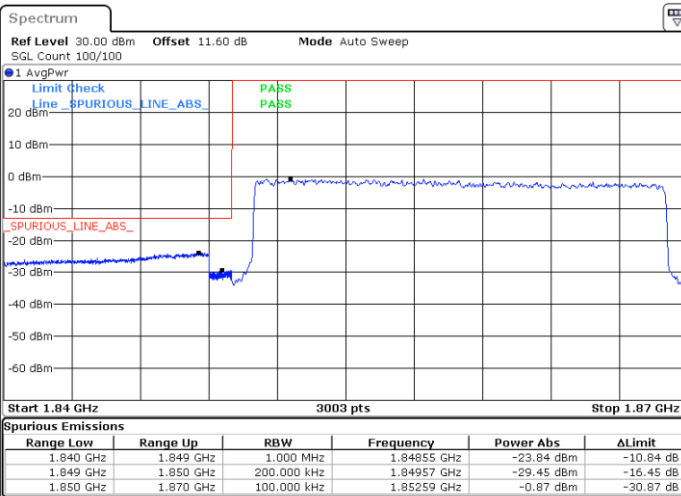


Highest Band Edge / Full RB



LTE Band 25 / 20MHz / 256QAM

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

