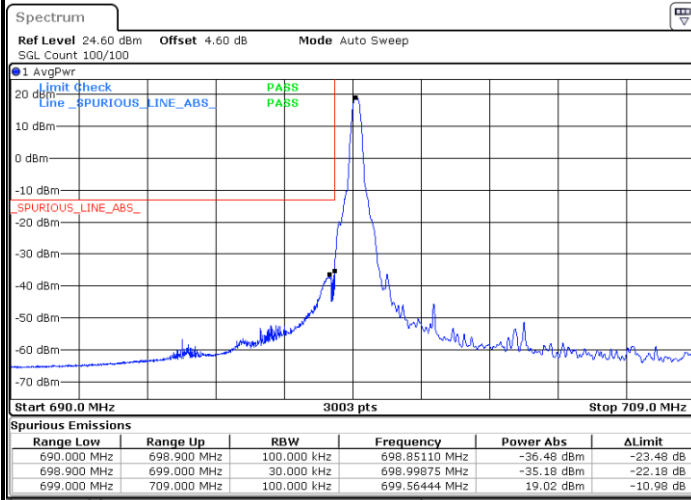


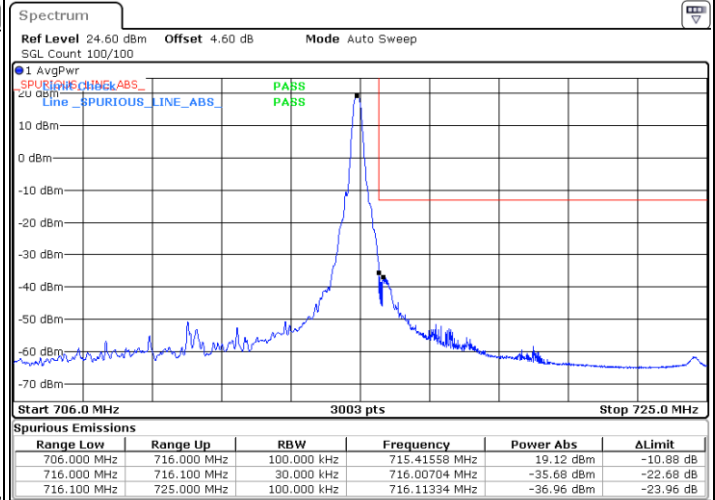


LTE Band 12 / 10MHz / 16QAM

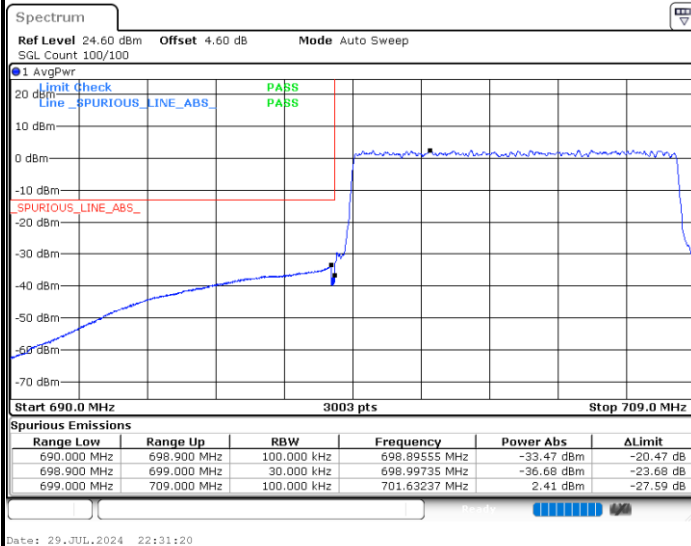
Lowest Band Edge / 1 RB



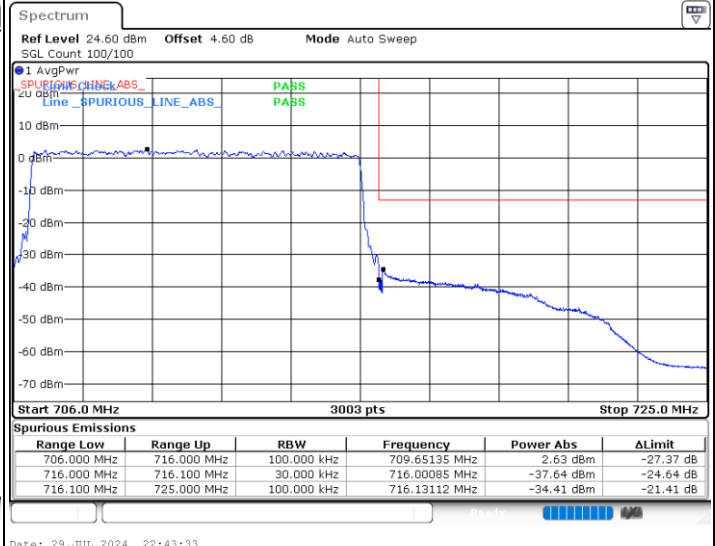
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



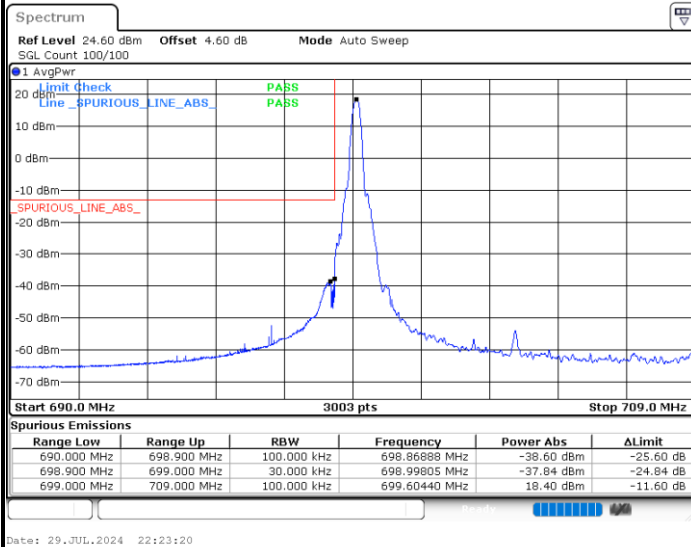
Highest Band Edge / Full RB



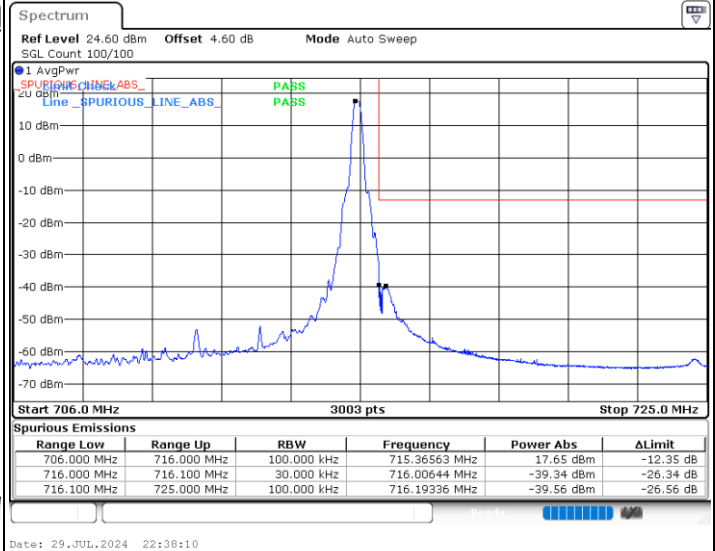


LTE Band 12 / 10MHz / 64QAM

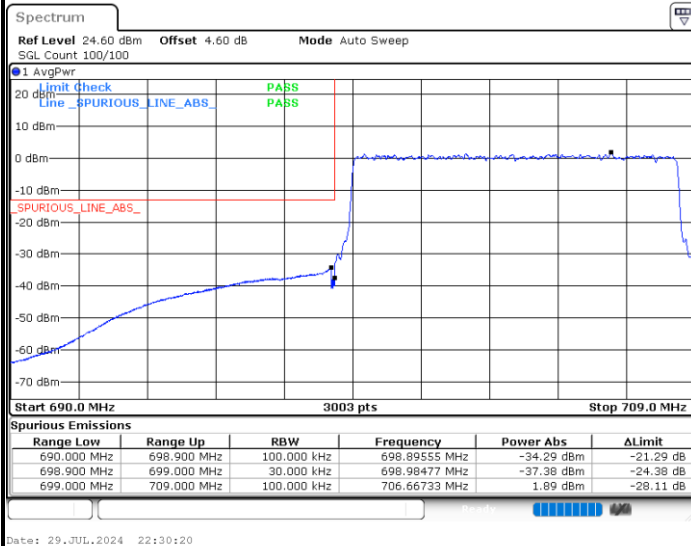
Lowest Band Edge / 1 RB



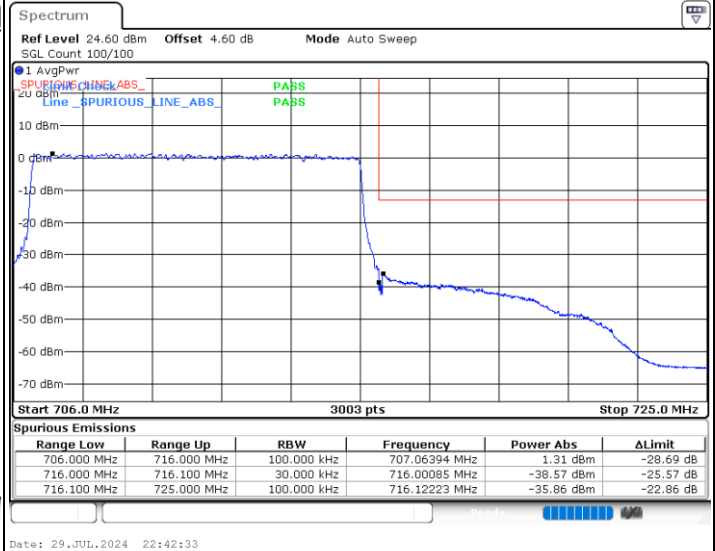
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



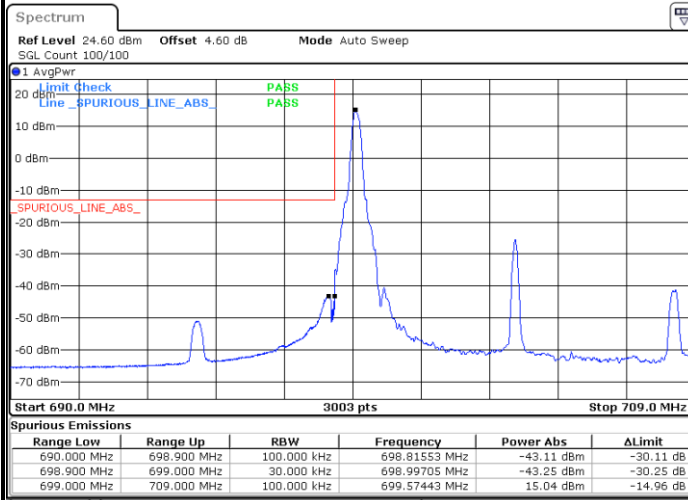
Highest Band Edge / Full RB



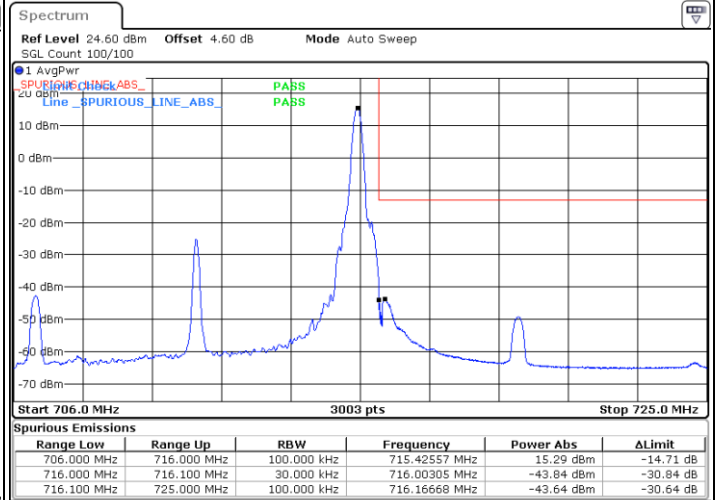


LTE Band 12 / 10MHz / 256QAM

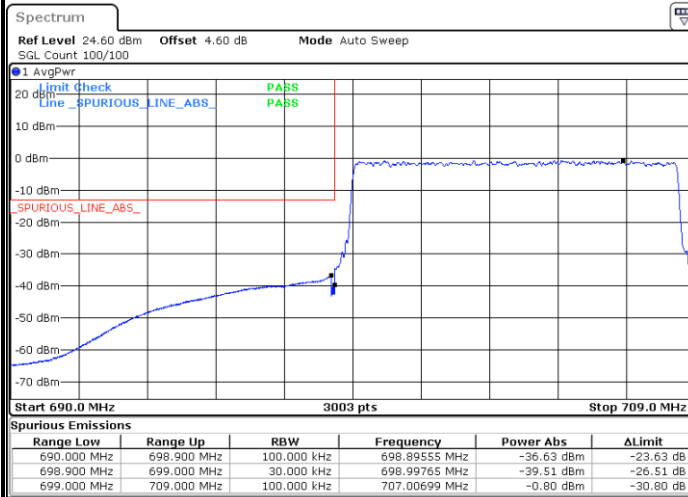
Lowest Band Edge / 1 RB



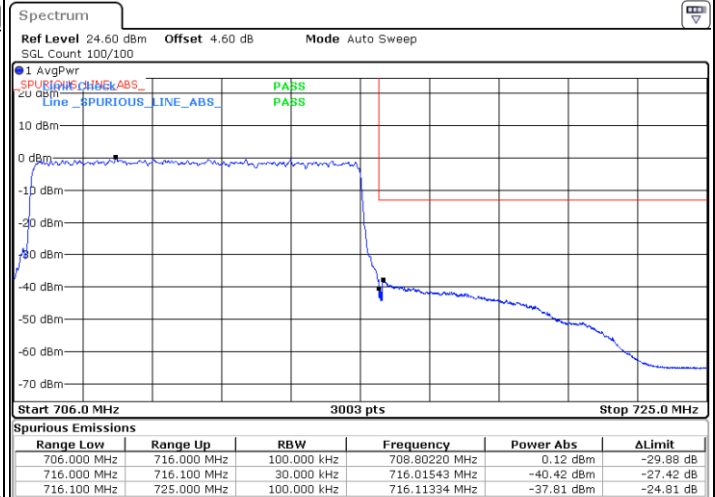
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

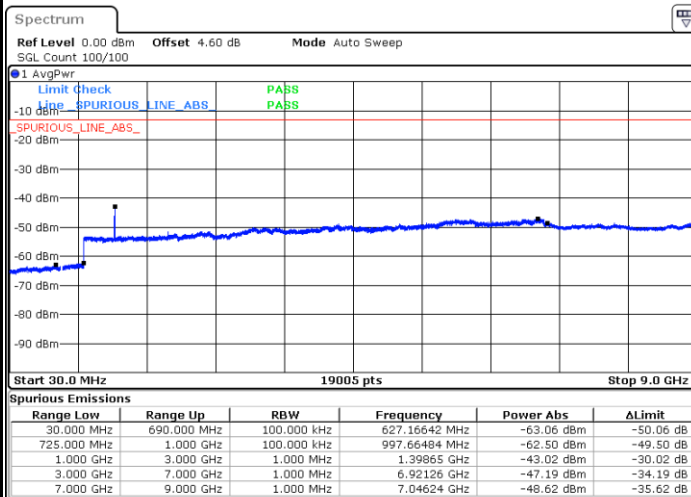




Conducted Spurious Emission

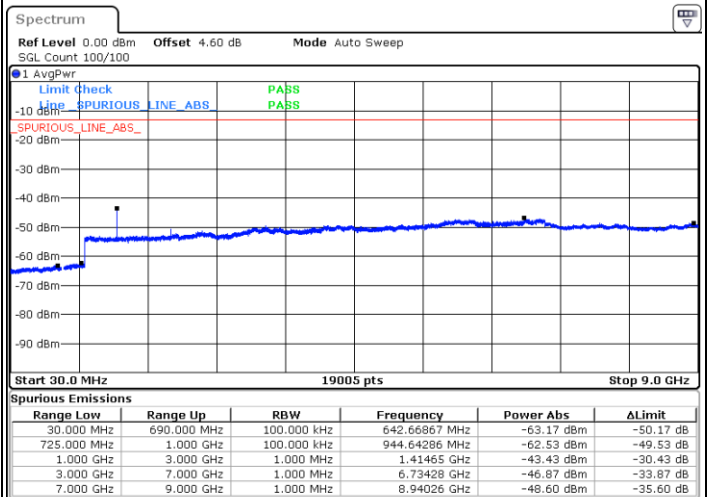
LTE Band 12 / 1.4MHz

Lowest Channel / QPSK



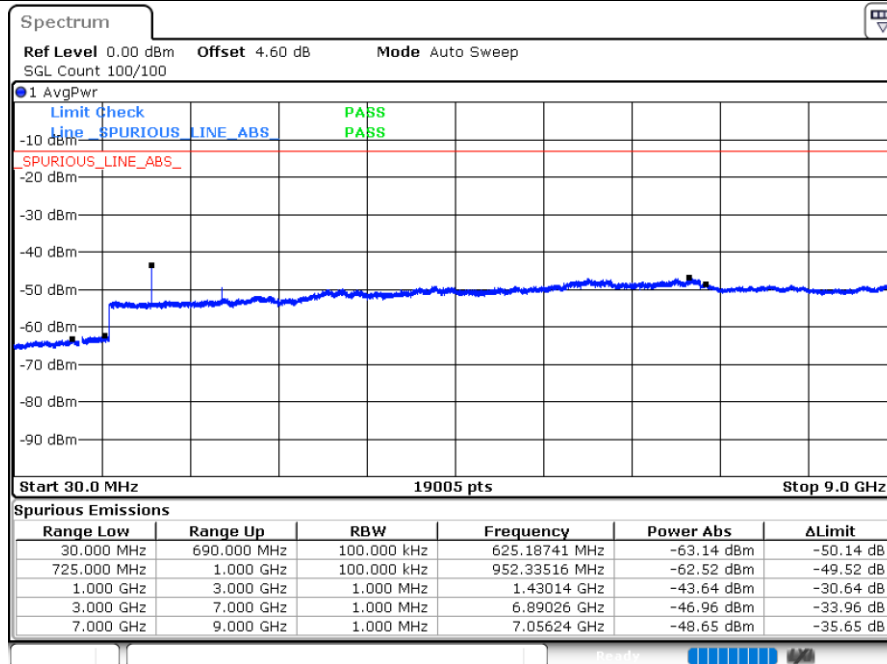
Date: 29.JUL.2024 21:01:14

Middle Channel / QPSK



Date: 29.JUL.2024 21:13:22

Highest Channel / QPSK

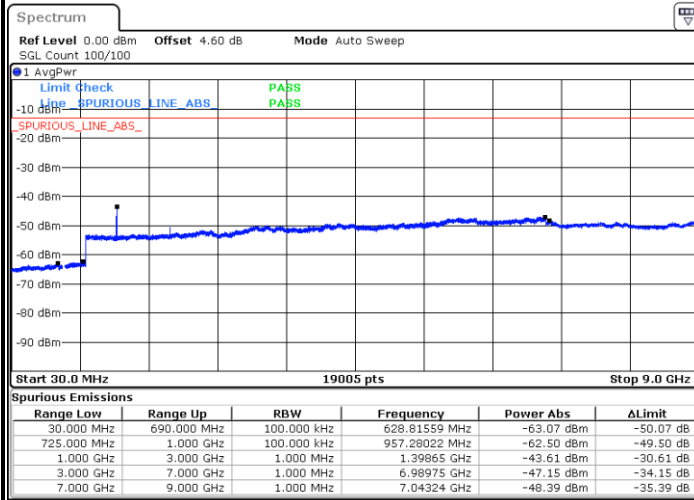


Date: 29.JUL.2024 21:14:47



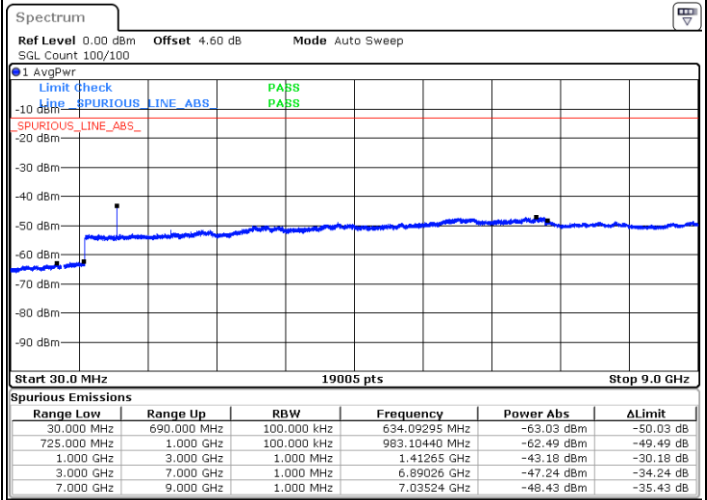
LTE Band 12 / 3MHz

Lowest Channel / QPSK



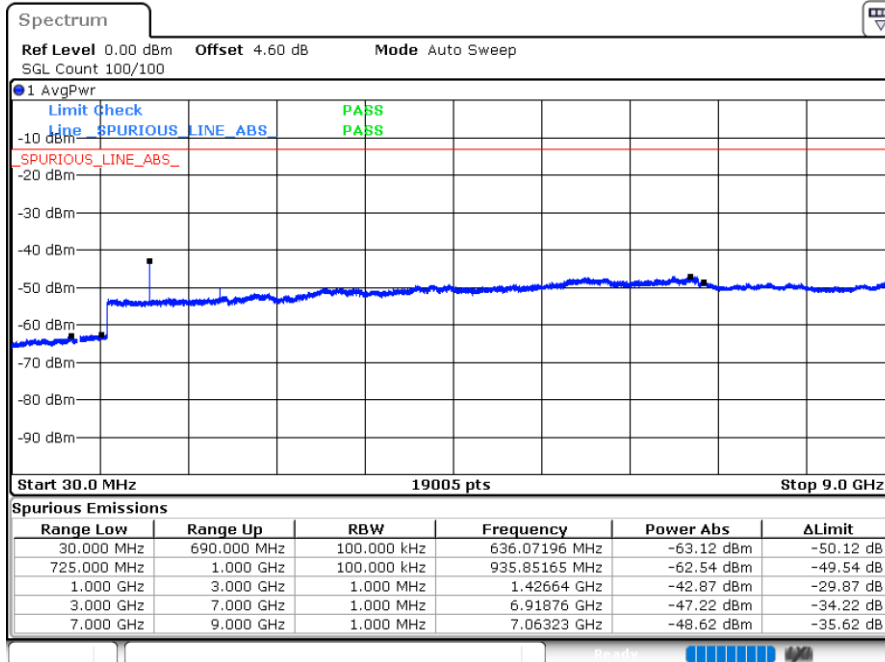
Date: 29.JUL.2024 21:26:56

Middle Channel / QPSK



Date: 29.JUL.2024 21:39:40

Highest Channel / QPSK

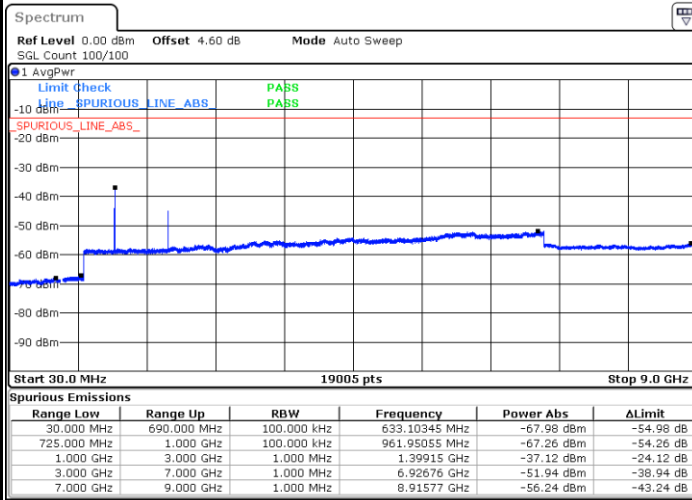


Date: 29.JUL.2024 21:41:05



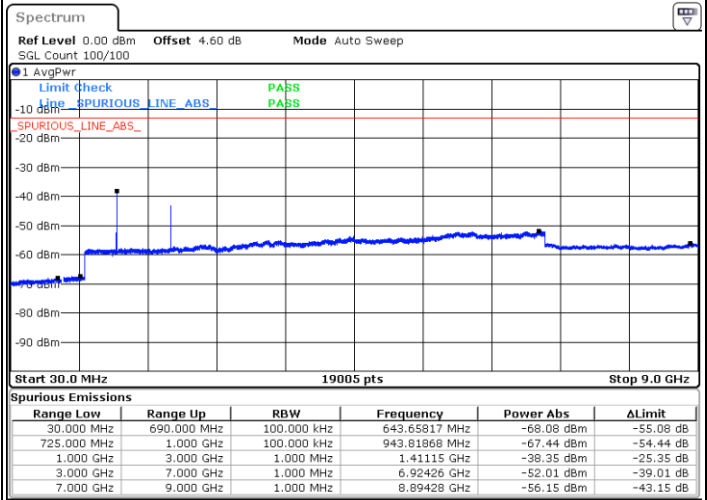
LTE Band 12 / 5MHz

Lowest Channel / QPSK



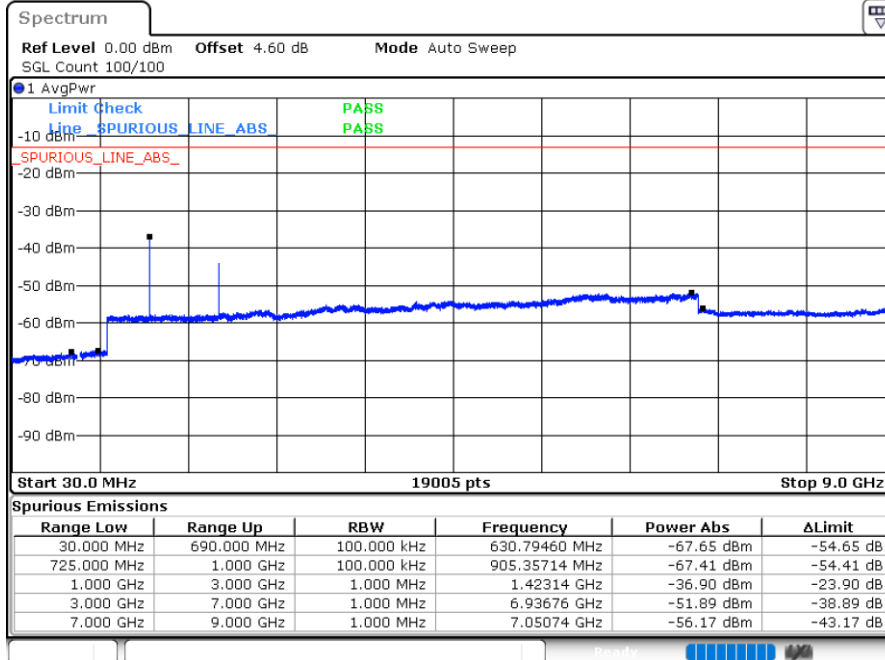
Date: 29.JUL.2024 21:54:29

Middle Channel / QPSK



Date: 29.JUL.2024 22:05:55

Highest Channel / QPSK

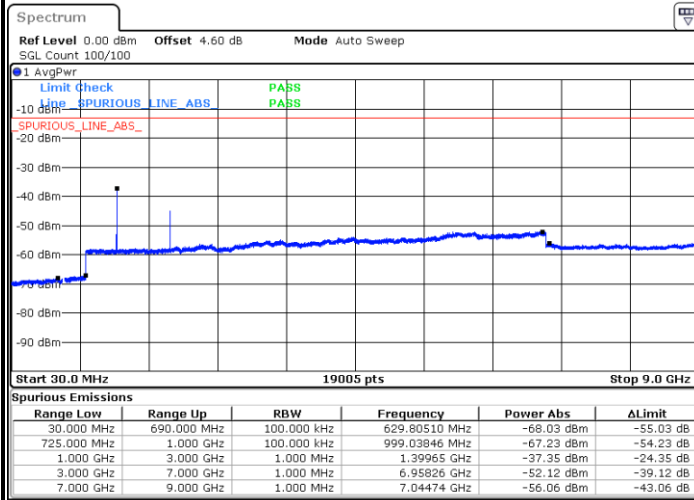


Date: 29.JUL.2024 22:07:20



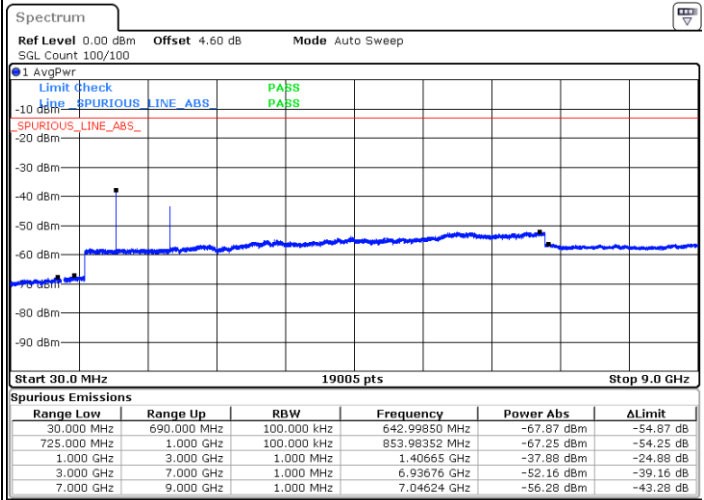
LTE Band 12 / 10MHz

Lowest Channel / QPSK



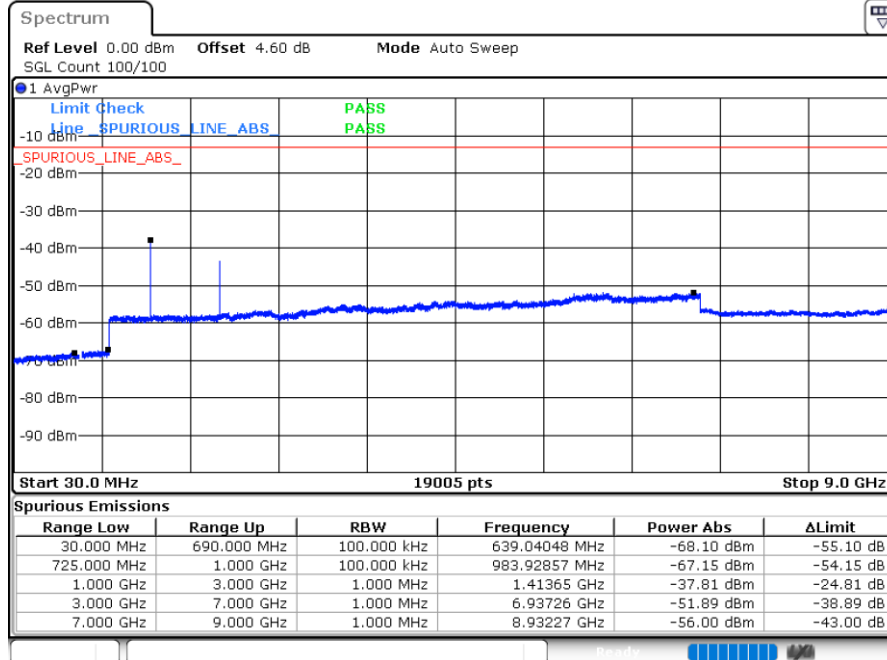
Date: 29.JUL.2024 22:19:50

Middle Channel / QPSK



Date: 29.JUL.2024 22:33:45

Highest Channel / QPSK



Date: 29.JUL.2024 22:35:10

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	0.0048	PASS
40	Normal Voltage	0.0024	
30	Normal Voltage	0.0017	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0004	
0	Normal Voltage	0.0018	
-10	Normal Voltage	0.0012	
-20	Normal Voltage	0.0057	
-30	Normal Voltage	0.0036	
20	Maximum Voltage	0.0069	
20	Normal Voltage	0.0015	
20	Battery End Point	0.0042	

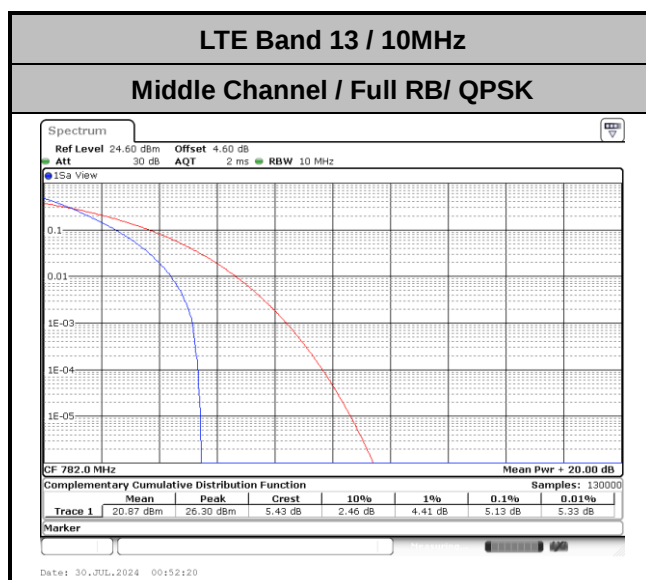
Note:

1. Normal Voltage =3.91 V. ; Minimum Voltage =3.4 V. ; Maximum Voltage =4.5V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

LTE Band 13

Peak-to-Average Ratio

Mode	LTE Band 13 / 10MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	5.13	6.09	6.49	6.72	PASS

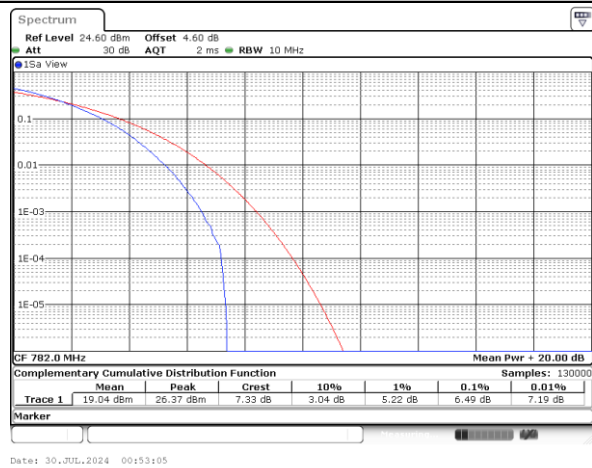




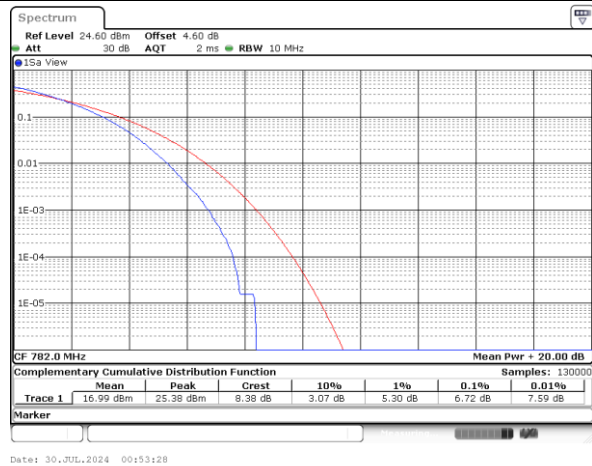
Middle Channel / Full RB/ 16QAM



Middle Channel / Full RB/ 64QAM

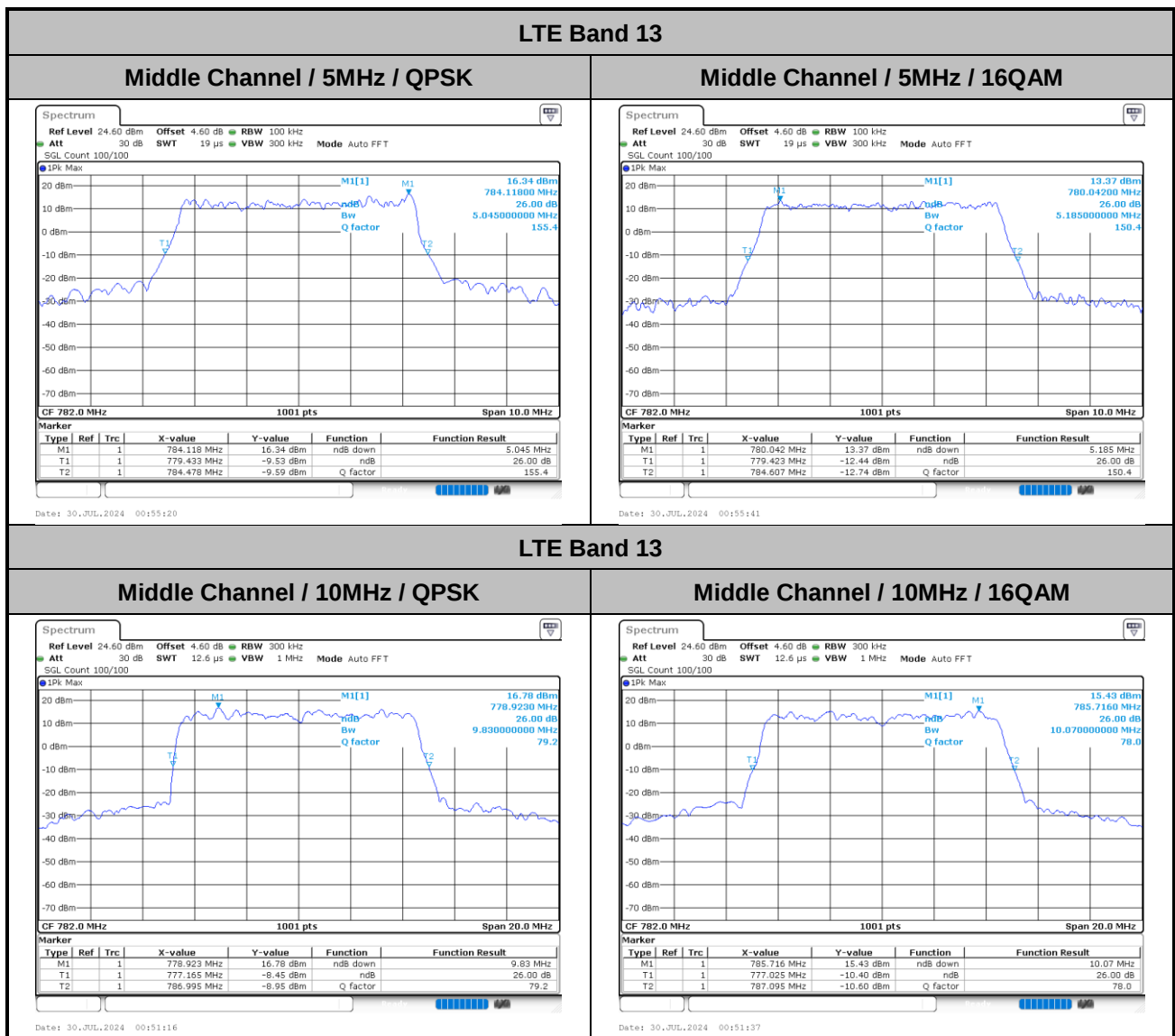


Middle Channel / Full RB/ 256QAM



**26dB Bandwidth**

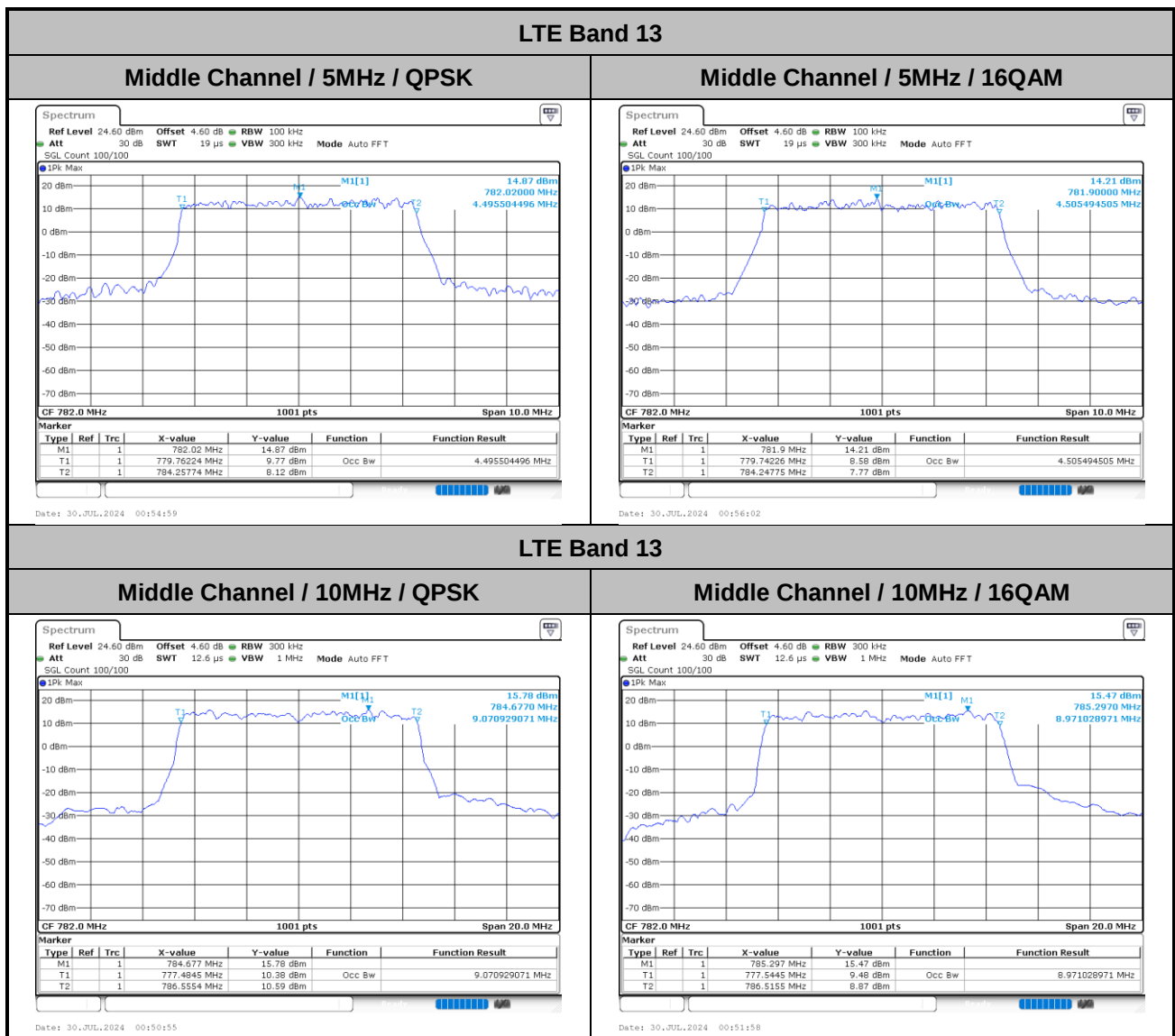
Mode	LTE Band 13 : 26dB BW(MHz)	
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	5.05	5.19
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.83	10.07





Occupied Bandwidth

Mode	LTE Band 13 : 99%OBW(MHz)	
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	4.50	4.51
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.07	8.97

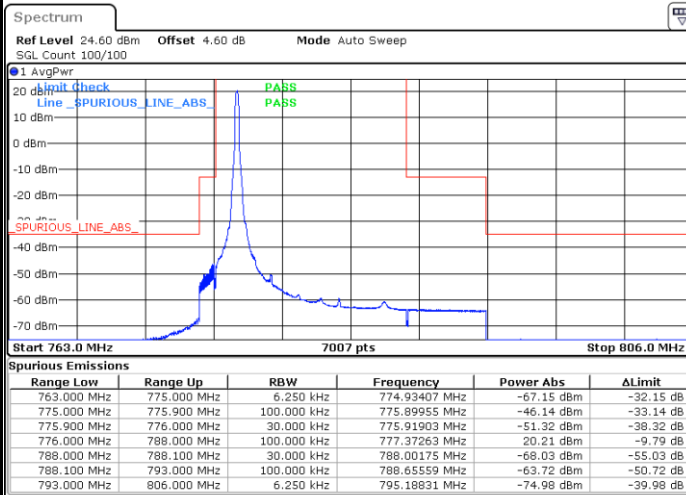




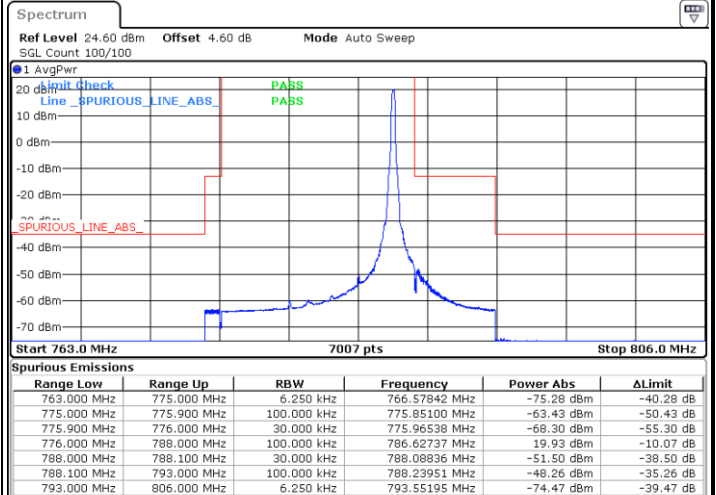
Conducted Band Edge

LTE Band 13 / 5MHz / QPSK

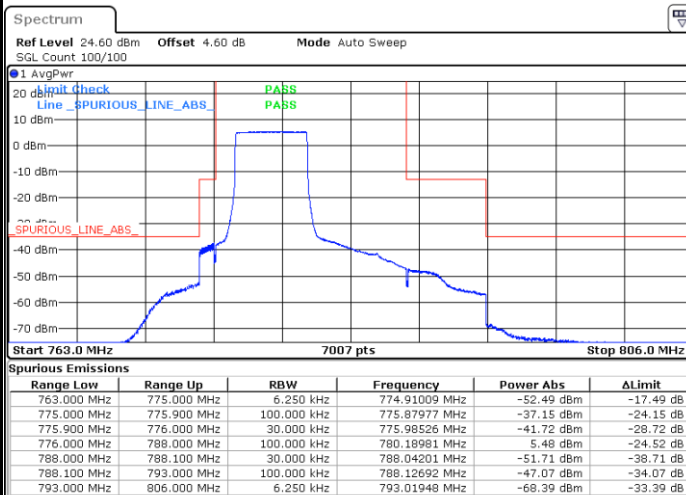
Lowest Band Edge / 1 RB



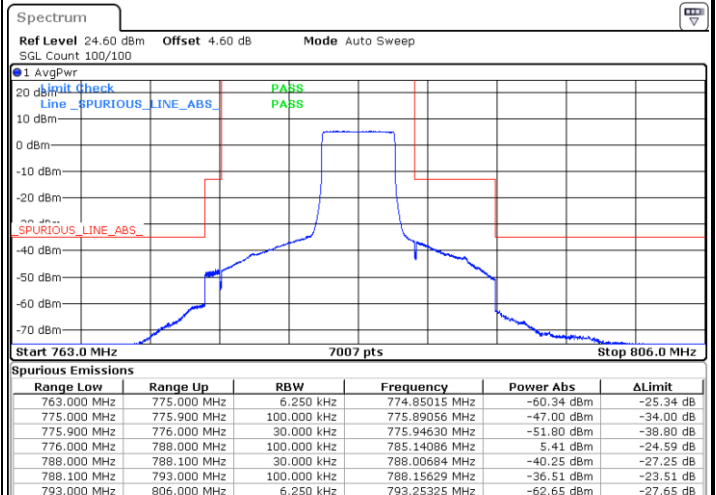
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



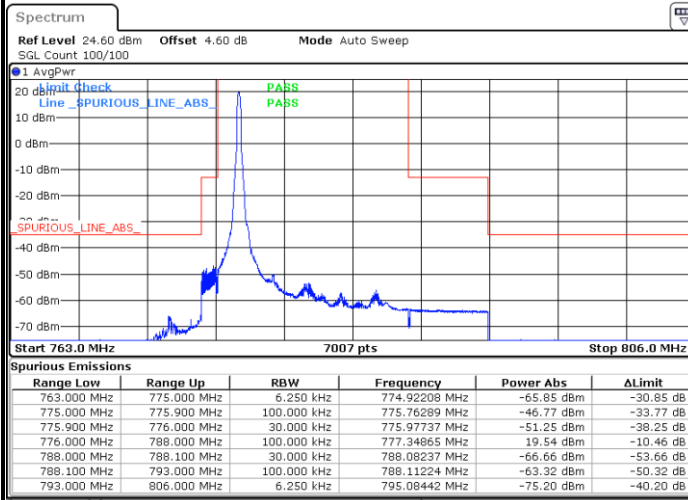
Highest Band Edge / Full RB



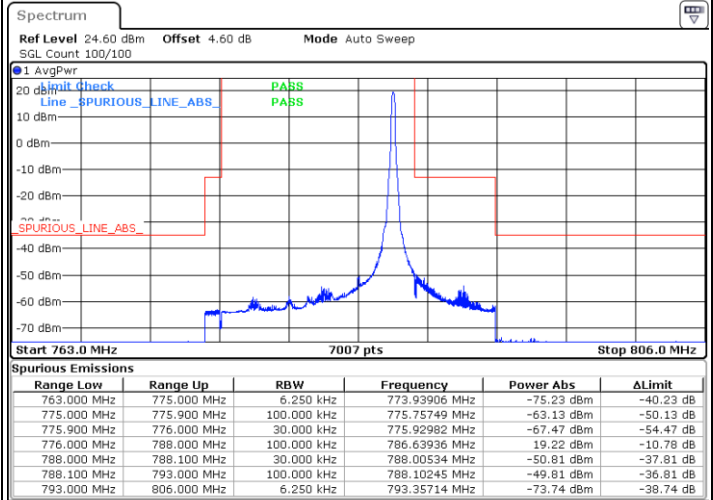


LTE Band 13 / 5MHz / 16QAM

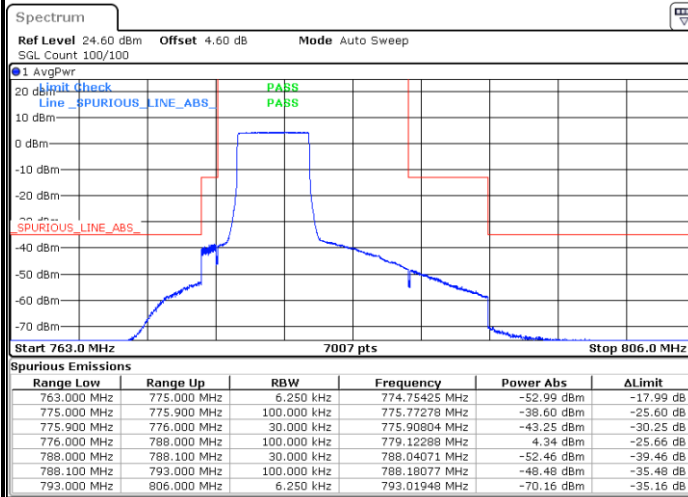
Lowest Band Edge / 1RB



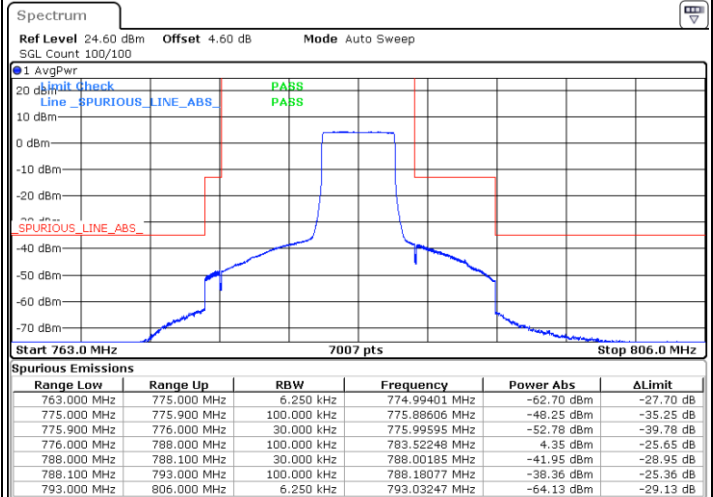
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



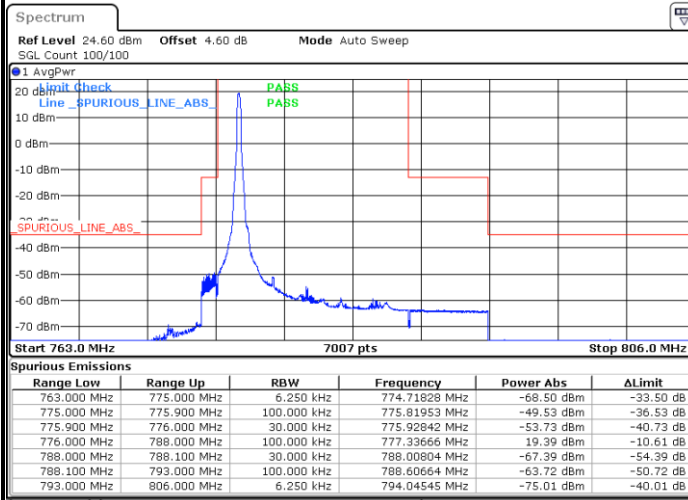
Highest Band Edge / Full RB



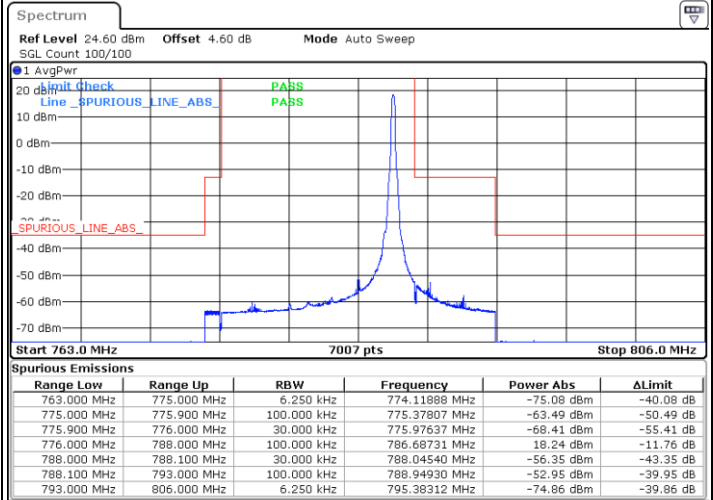


LTE Band 13 / 5MHz / 64QAM

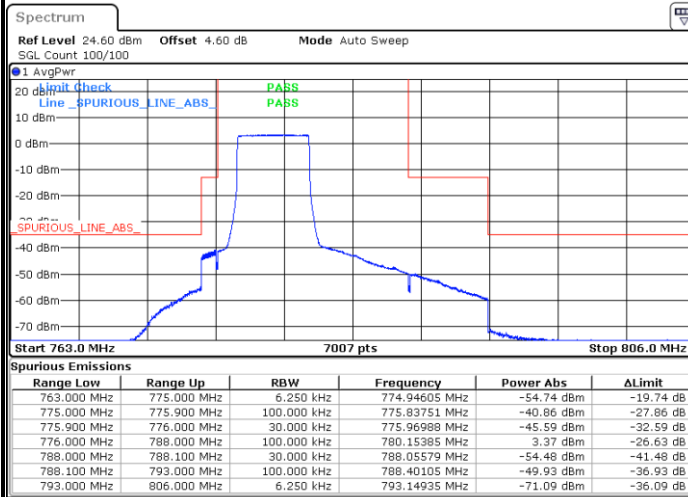
Lowest Band Edge / 1RB



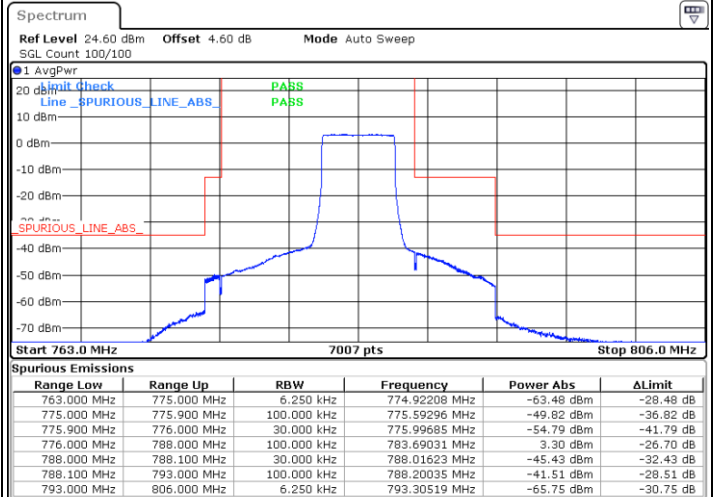
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



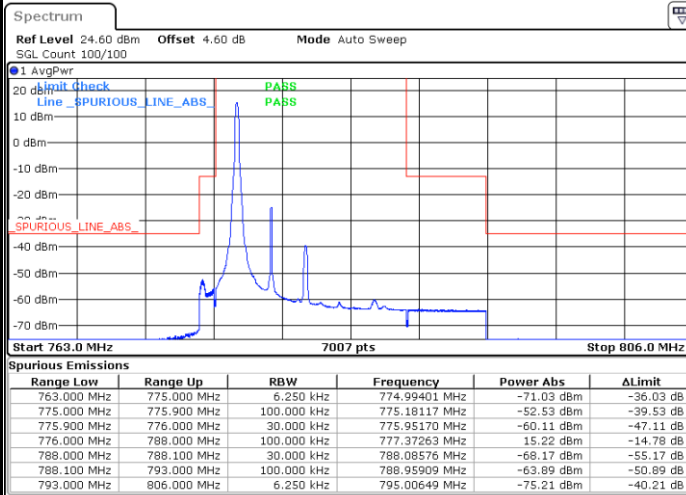
Highest Band Edge / Full RB



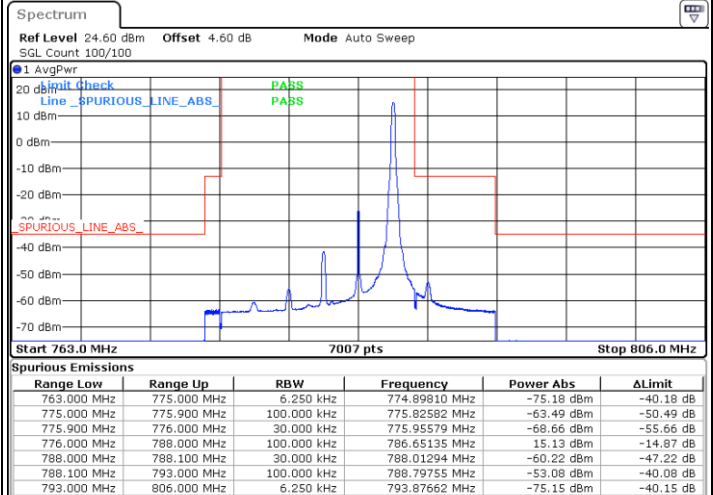


LTE Band 13 / 5MHz / 256QAM

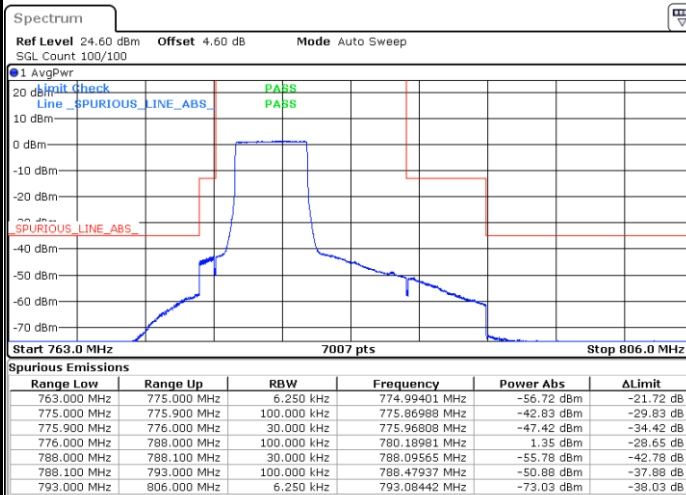
Lowest Band Edge / 1RB



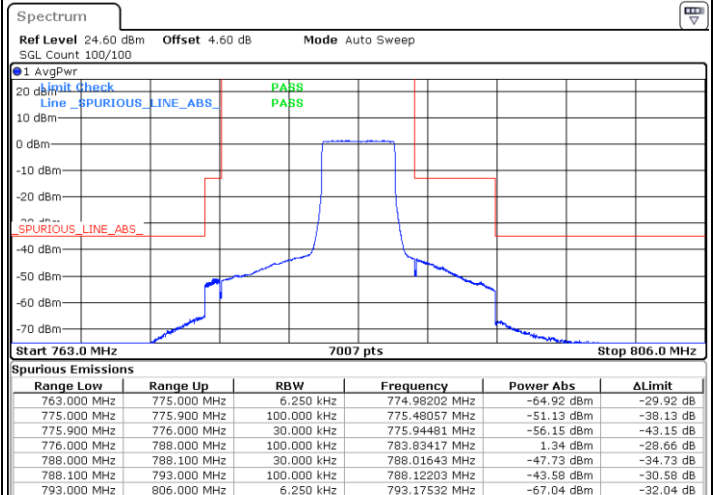
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



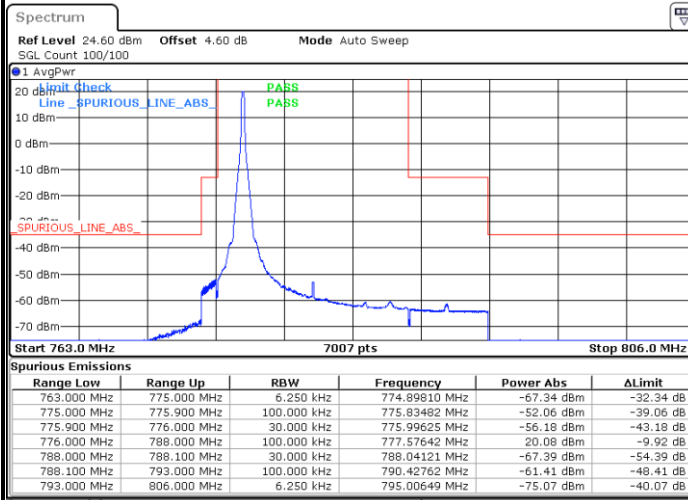
Highest Band Edge / Full RB





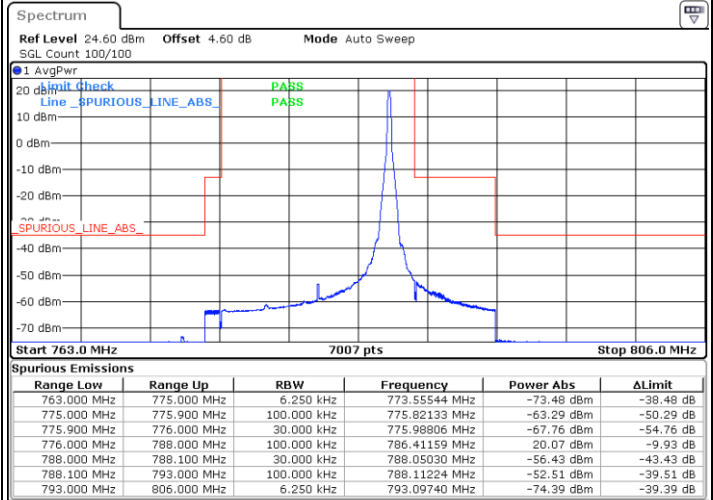
LTE Band 13 / 10MHz / QPSK

middle Band Edge / 1 RB



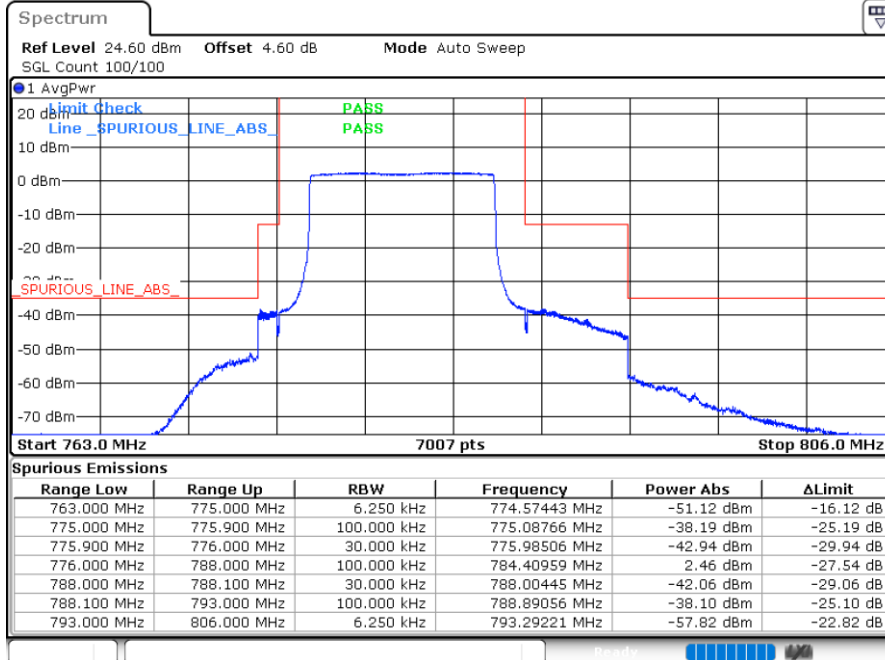
Date: 30.JUL.2024 00:30:27

middle Band Edge / 1 RB



Date: 30.JUL.2024 00:45:04

Middle Band Edge / Full RB

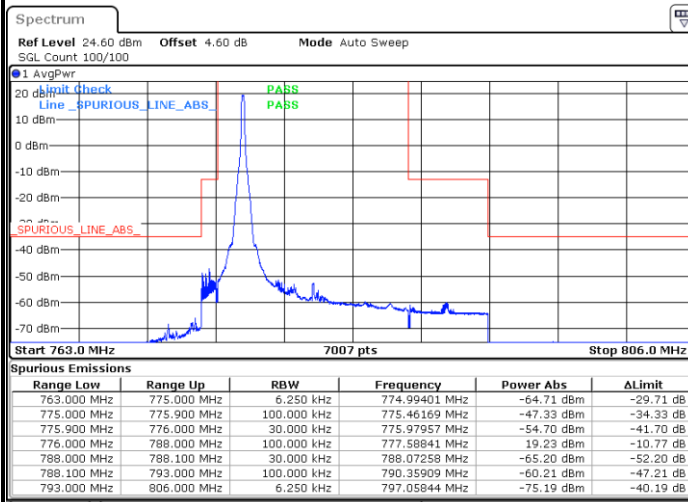


Date: 30.JUL.2024 00:37:46

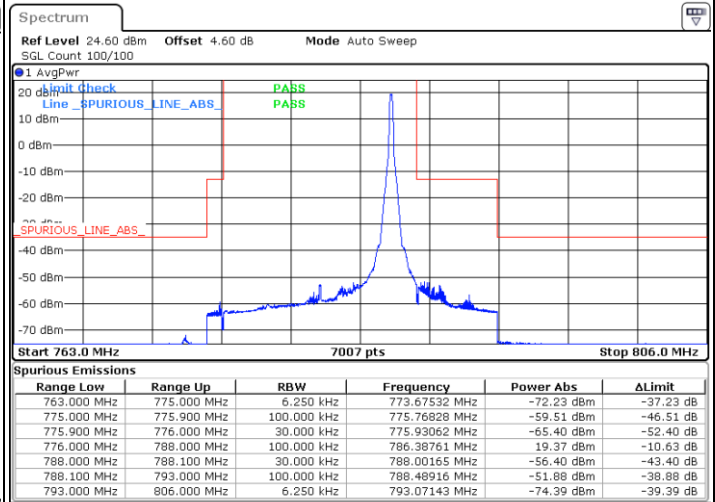


LTE Band 13 / 10MHz / 16QAM

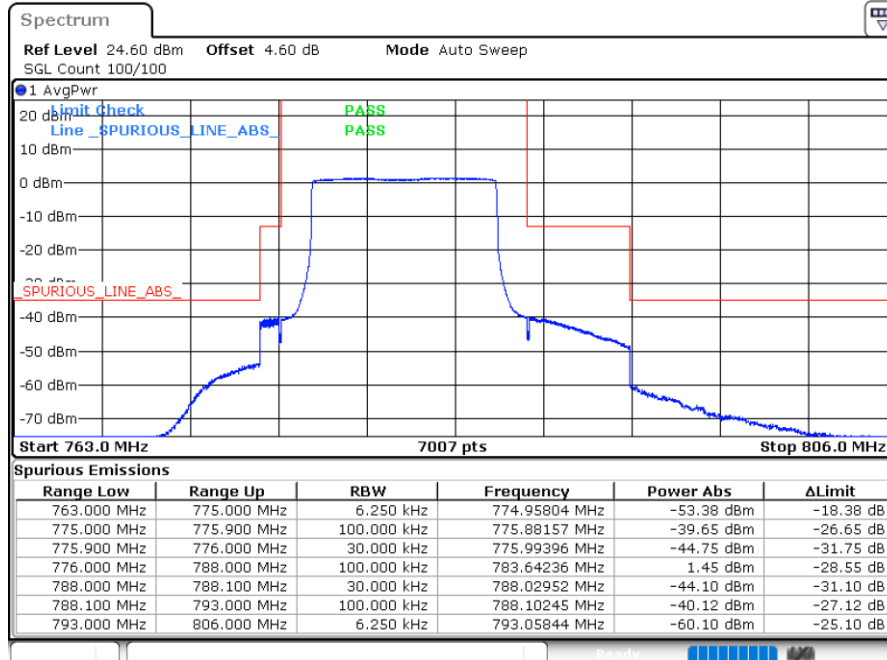
middle Band Edge / 1 RB



middle Band Edge / 1 RB



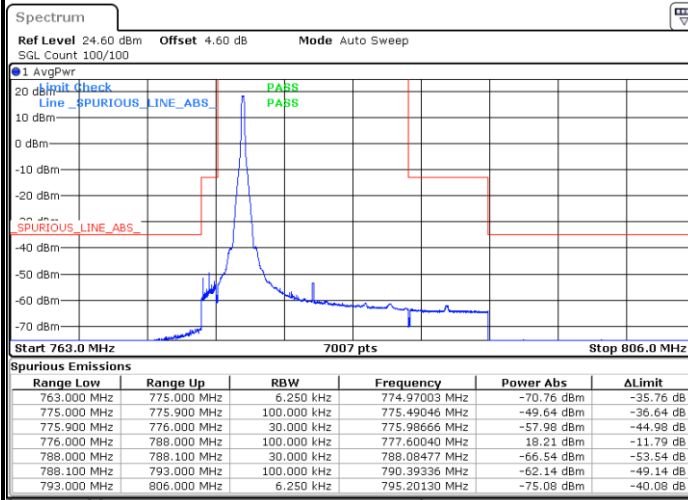
middle Band Edge / Full RB





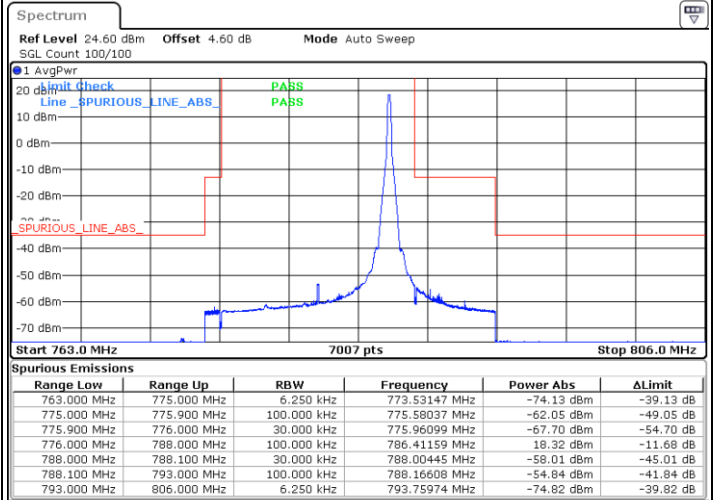
LTE Band 13 / 10MHz / 64QAM

middle Band Edge / 1 RB



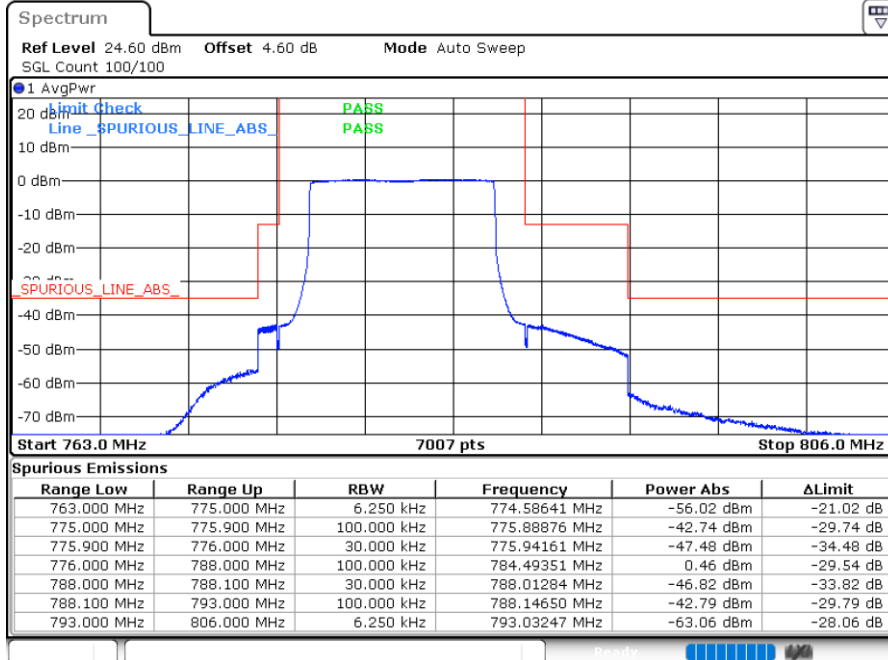
Date: 30.JUL.2024 00:34:06

middle Band Edge / 1 RB



Date: 30.JUL.2024 00:48:44

middle Band Edge / Full RB

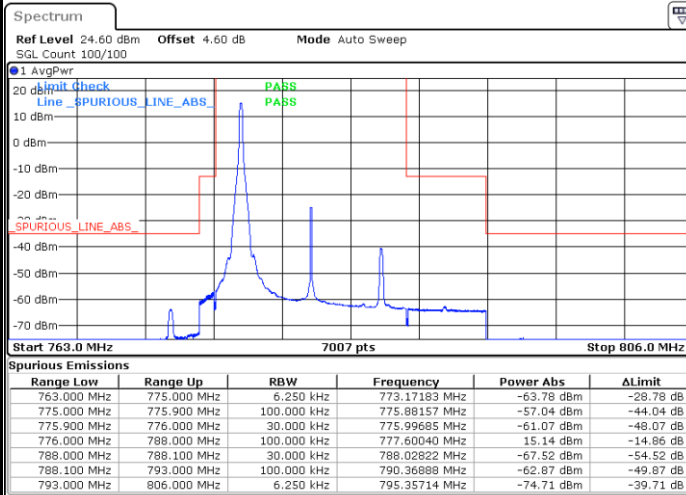


Date: 30.JUL.2024 00:41:25



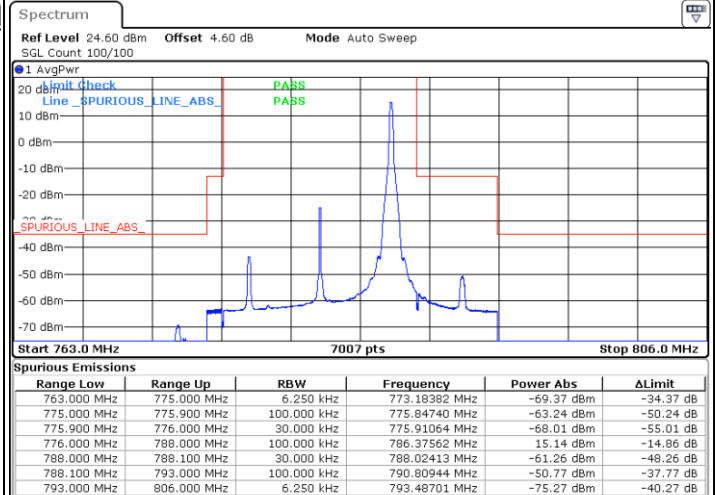
LTE Band 13 / 10MHz / 256QAM

middle Band Edge / 1 RB



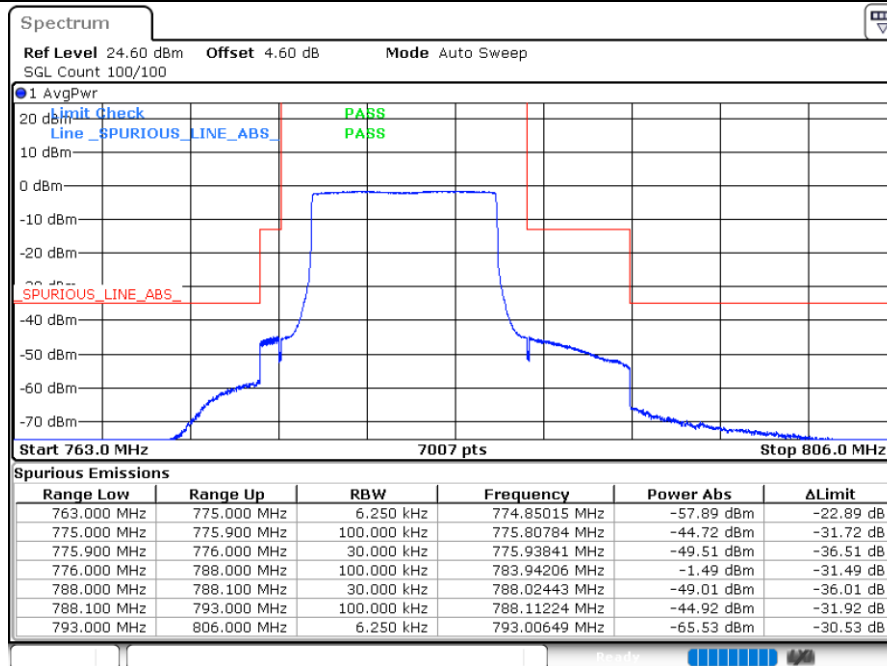
Date: 30.JUL.2024 00:35:56

middle Band Edge / 1 RB



Date: 30.JUL.2024 00:50:33

middle Band Edge / Full RB



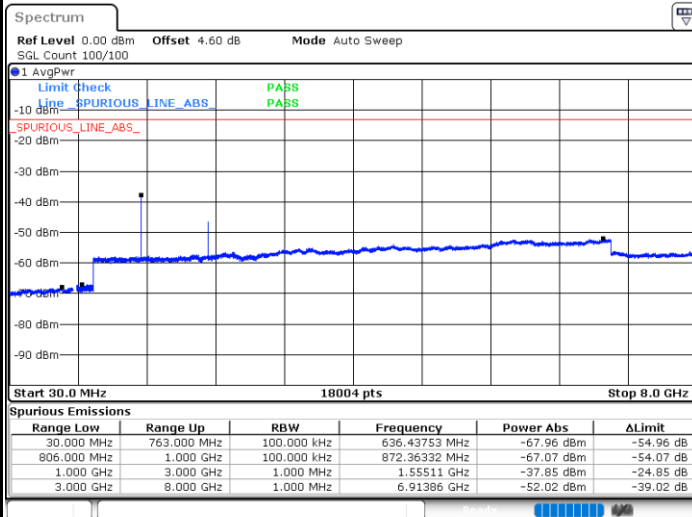
Date: 30.JUL.2024 00:43:15



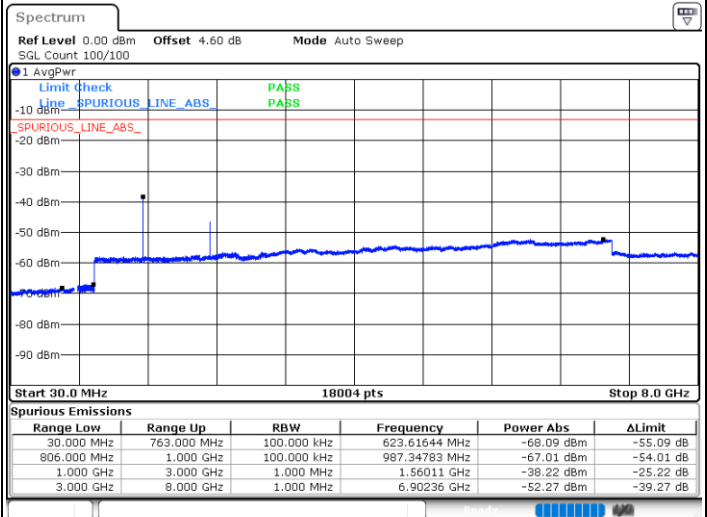
Conducted Spurious Emission

LTE Band 13 / 5MHz

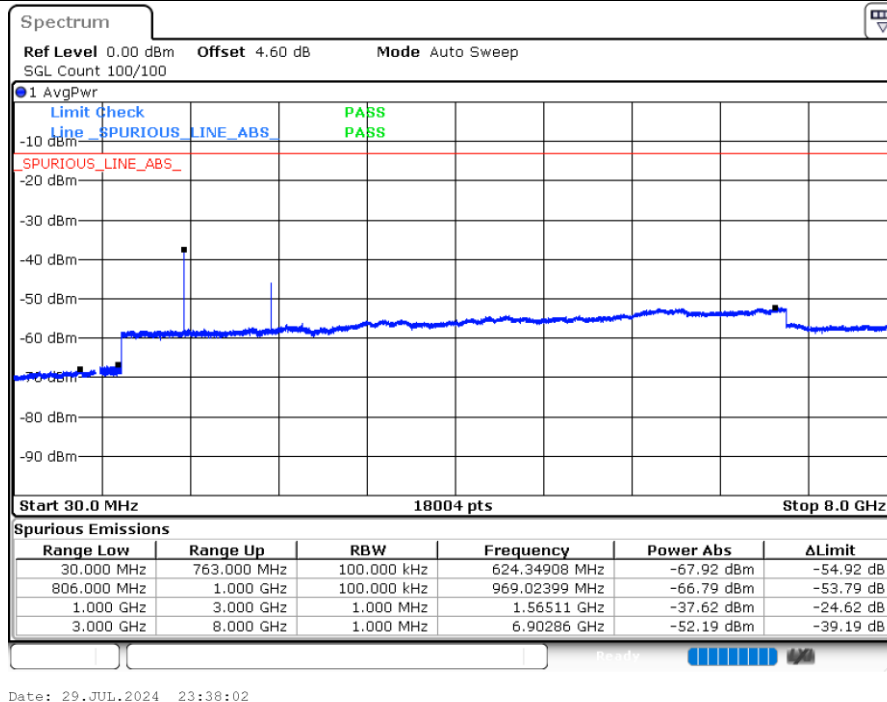
Lowest Channel / QPSK



Middle Channel / QPSK



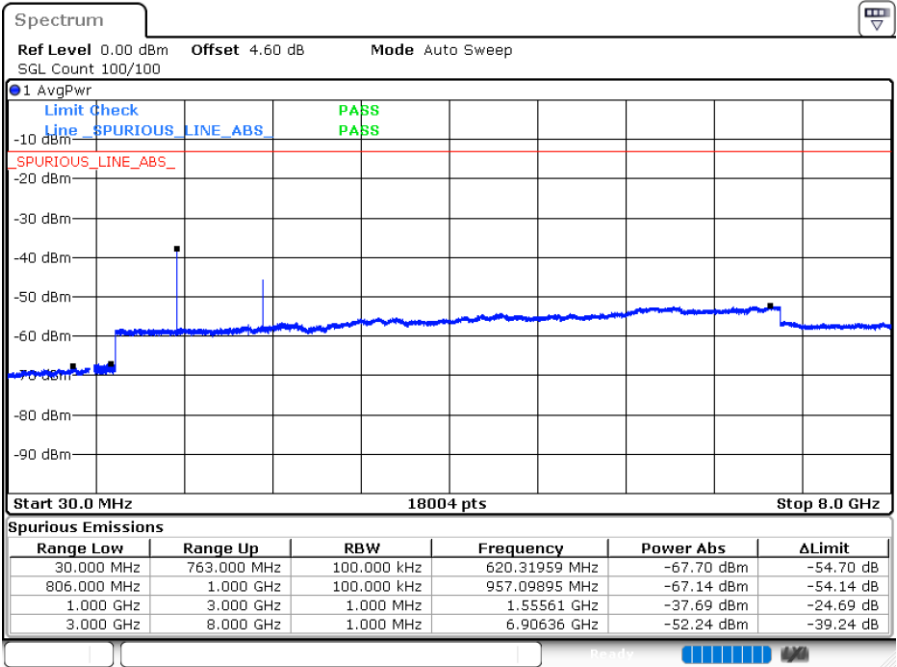
Highest Channel / QPSK





LTE Band 13 / 10MHz

Middle Channel / QPSK



Date: 30.JUL.2024 00:28:38

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	0.0021	PASS
40	Normal Voltage	0.0043	
30	Normal Voltage	0.0052	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0066	
0	Normal Voltage	0.0022	
-10	Normal Voltage	0.0036	
-20	Normal Voltage	0.0014	
-30	Normal Voltage	0.0024	
20	Maximum Voltage	0.0007	
20	Normal Voltage	0.0061	
20	Battery End Point	0.0031	

Note:

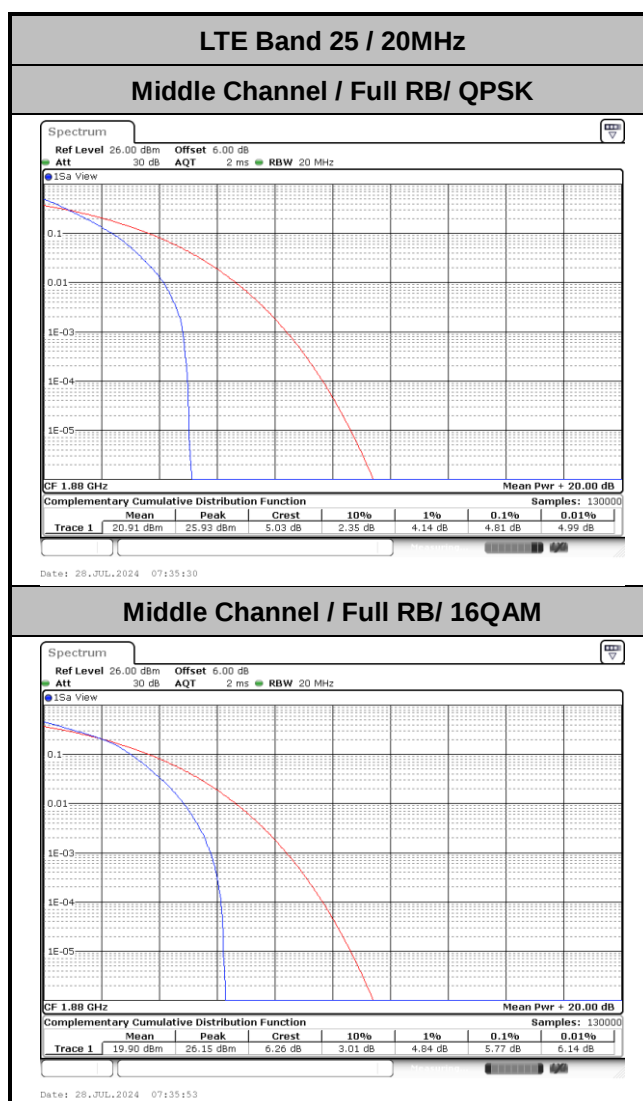
1. Normal Voltage =3.91 V. ; Minimum Voltage =3.4 V. ; Maximum Voltage =4.5V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

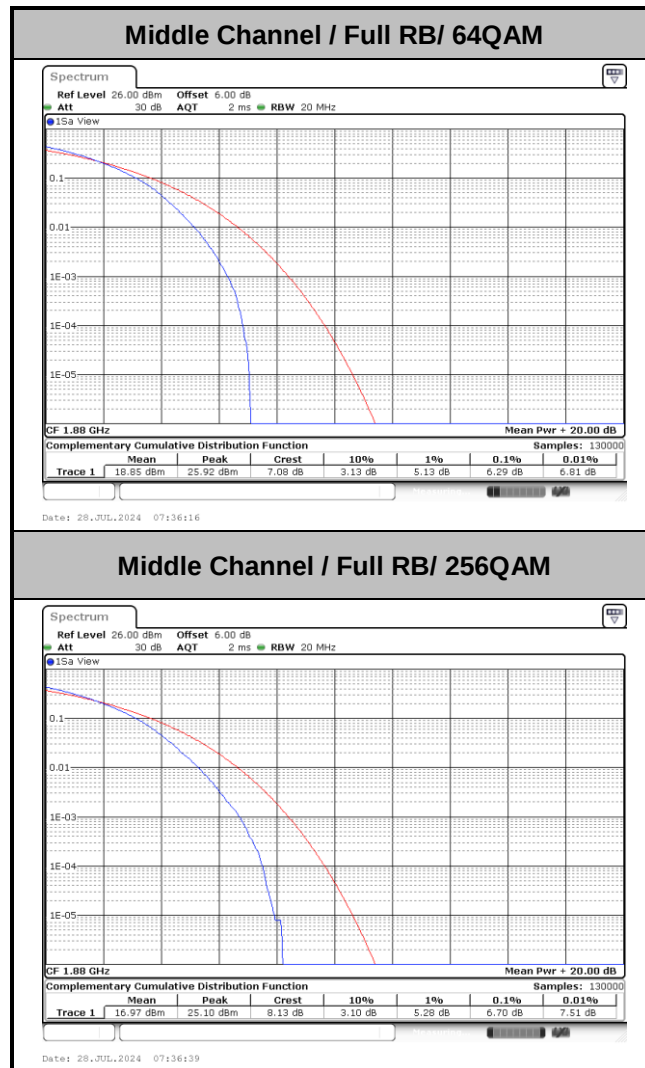


LTE Band 25

Peak-to-Average Ratio

Mode	LTE Band 25 / 20MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.81	5.77	6.29	6.70	PASS





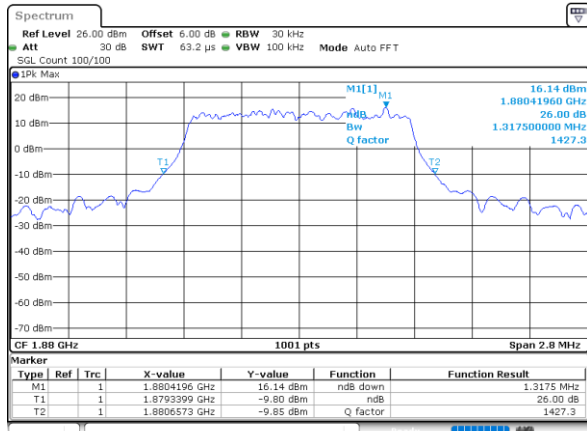
26dB Bandwidth

Mode	LTE Band 25 : 26dB BW(MHz)	
BW	1.4MHz	
Mod.	QPSK	16QAM
Middle CH	1.32	1.34
BW	3MHz	
Mod.	QPSK	16QAM
Middle CH	3.13	3.12
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	5.11	5.16
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.89	9.99
BW	15MHz	
Mod.	QPSK	16QAM
Middle CH	14.21	14.75
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	19.22	19.34



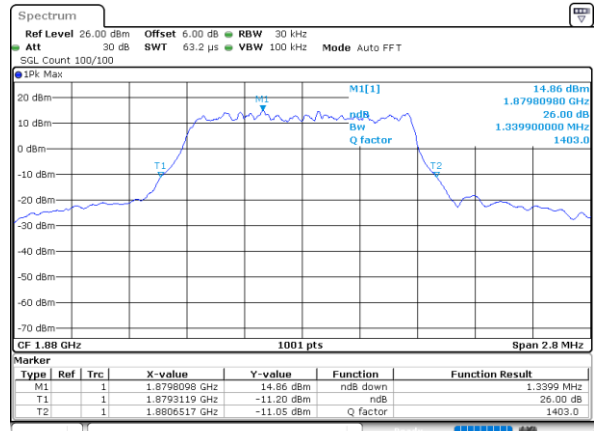
LTE Band 25

Middle Channel / 1.4MHz / QPSK



Date: 28_JUL_2024 08:26:48

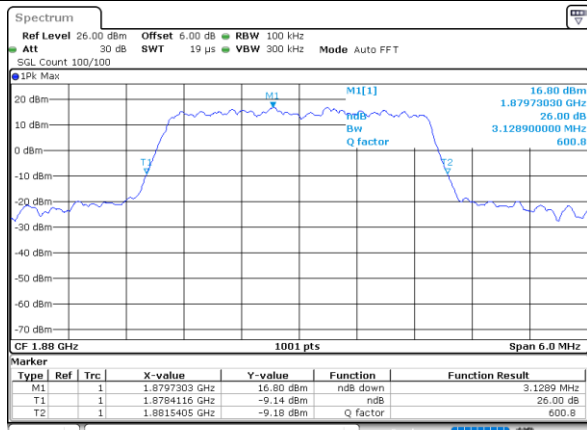
Middle Channel / 1.4MHz / 16QAM



Date: 28_JUL_2024 08:27:10

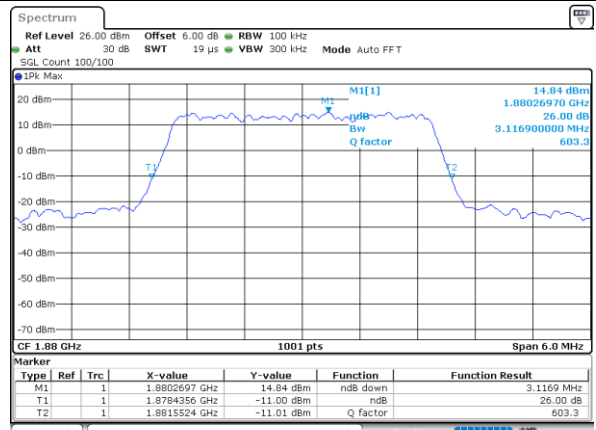
LTE Band 25

Middle Channel / 3MHz / QPSK



Date: 28_JUL_2024 08:11:56

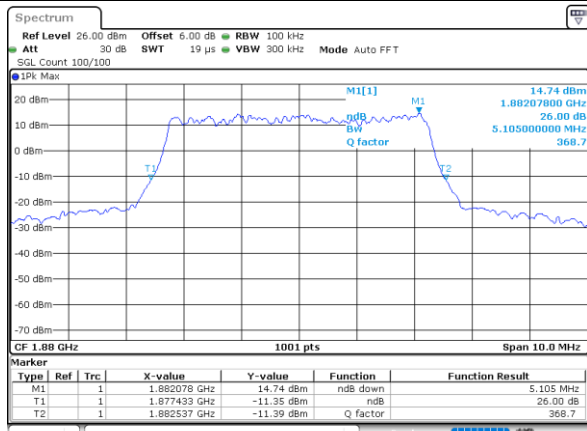
Middle Channel / 3MHz / 16QAM



Date: 28_JUL_2024 08:12:17

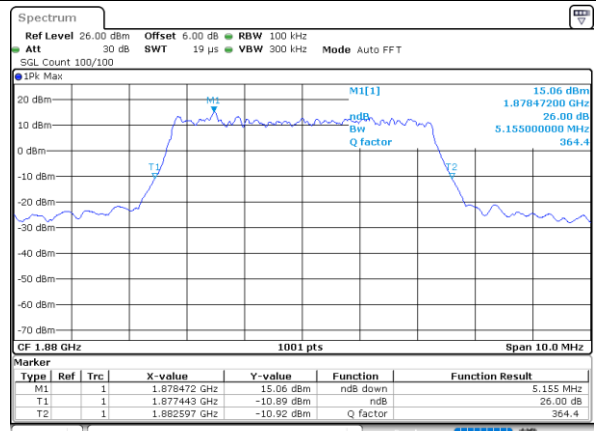
LTE Band 25

Middle Channel / 5MHz / QPSK



Date: 28_JUL_2024 08:10:29

Middle Channel / 5MHz / 16QAM

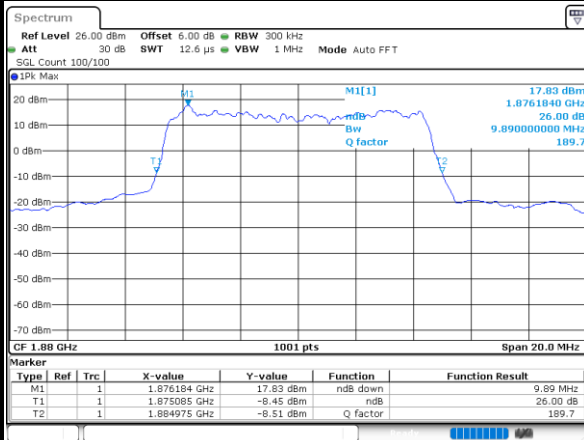


Date: 28_JUL_2024 08:10:50

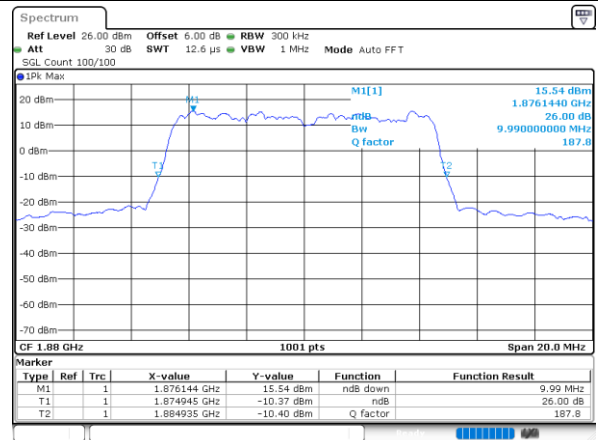


LTE Band 25

Middle Channel / 10MHz / QPSK

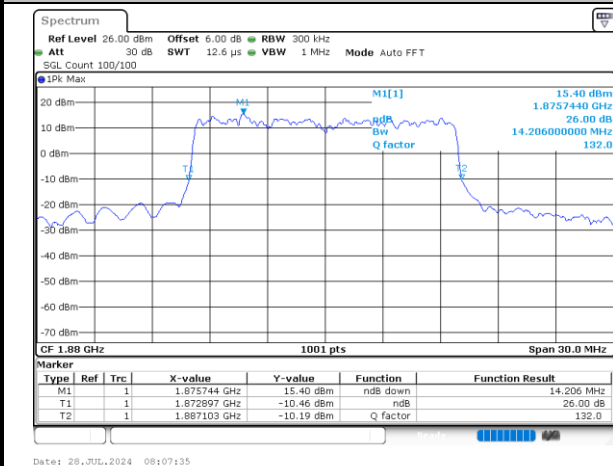


Middle Channel / 10MHz / 16QAM

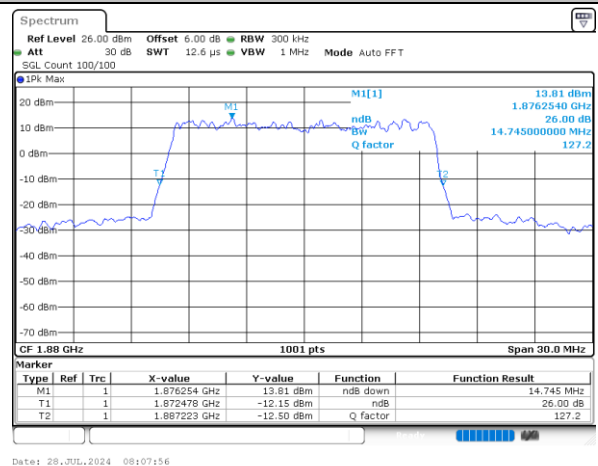


LTE Band 25

Middle Channel / 15MHz / QPSK

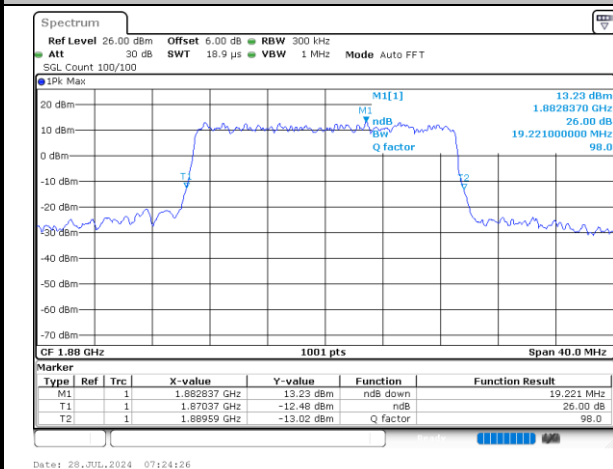


Middle Channel / 15MHz / 16QAM

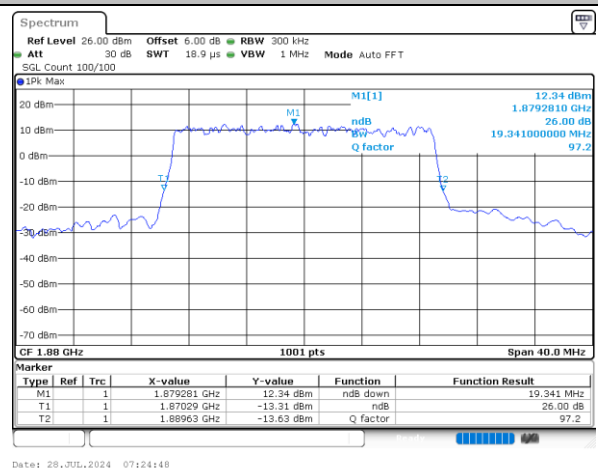


LTE Band 25

Middle Channel / 20MHz / QPSK



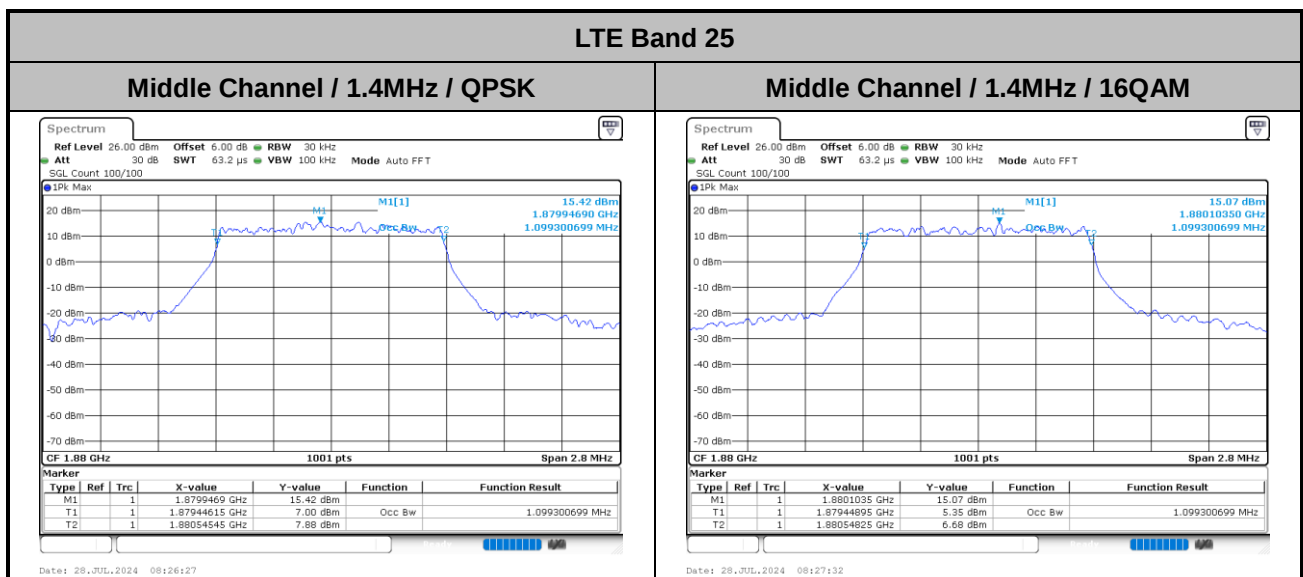
Middle Channel / 20MHz / 16QAM





Occupied Bandwidth

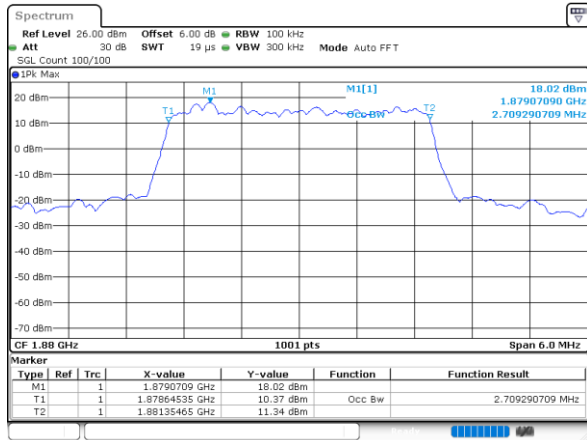
Mode	LTE Band 25 : 99%OBW(MHz)	
BW	1.4MHz	
Mod.	QPSK	16QAM
Middle CH	1.10	1.10
BW	3MHz	
Mod.	QPSK	16QAM
Middle CH	2.71	2.72
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	4.50	4.51
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.03	9.09
BW	15MHz	
Mod.	QPSK	16QAM
Middle CH	13.49	13.46
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	17.90	17.90



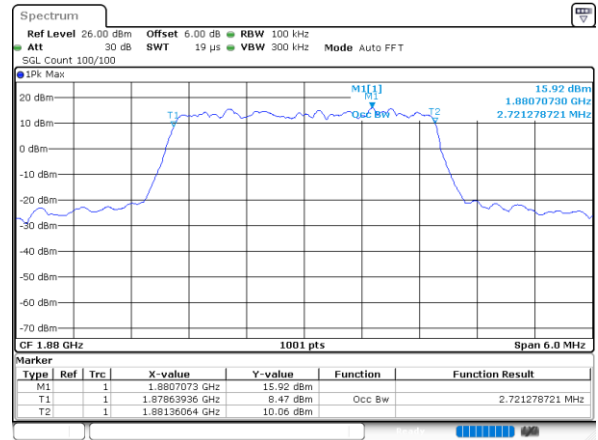


LTE Band 25

Middle Channel / 3MHz / QPSK

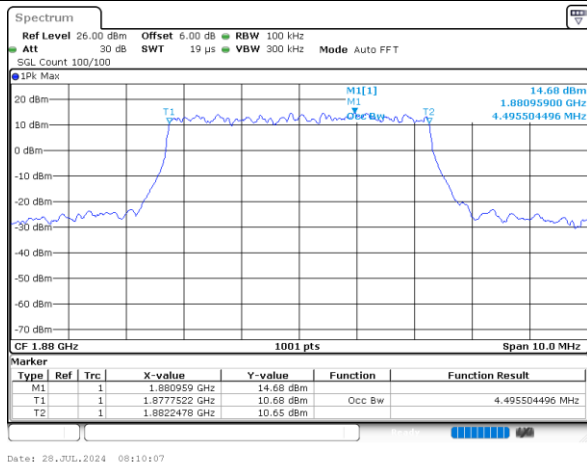


Middle Channel / 3MHz / 16QAM

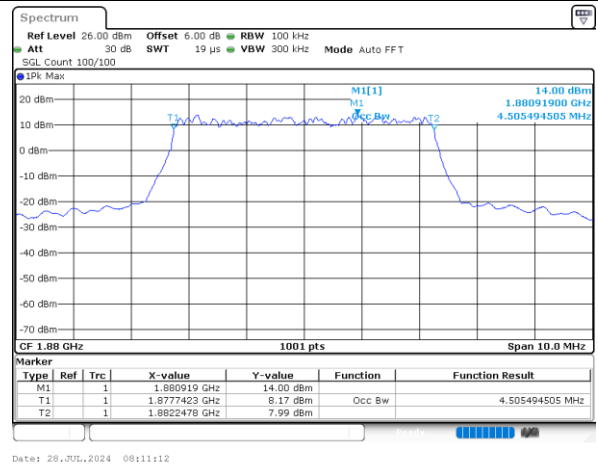


LTE Band 25

Middle Channel / 5MHz / QPSK

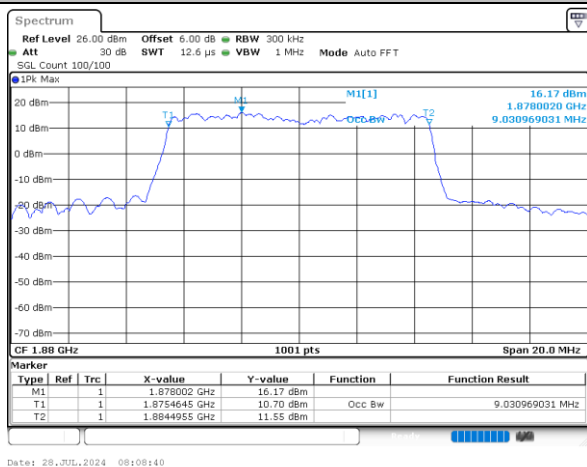


Middle Channel / 5MHz / 16QAM

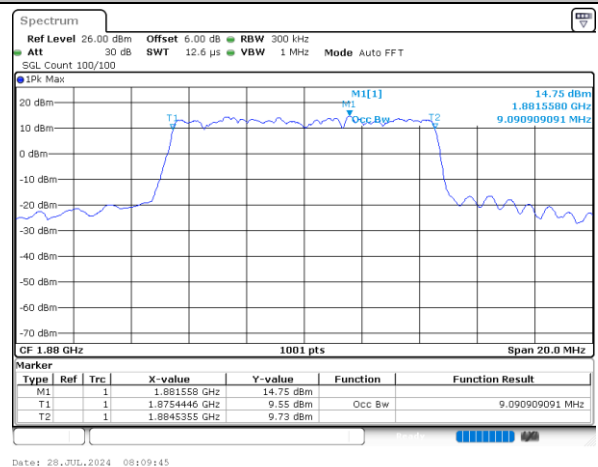


LTE Band 25

Middle Channel / 10MHz / QPSK



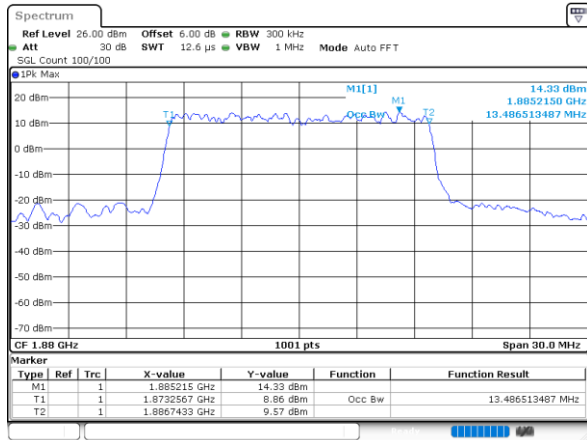
Middle Channel / 10MHz / 16QAM



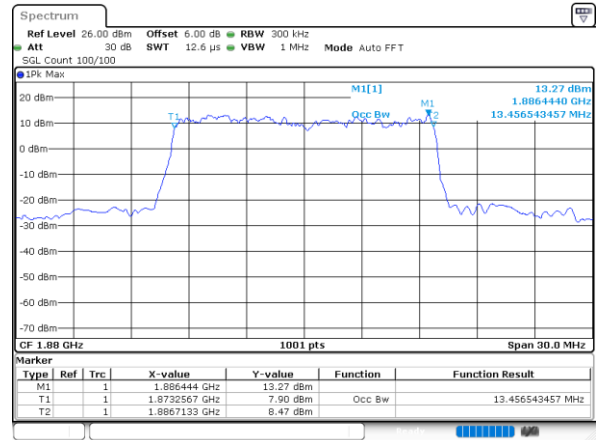


LTE Band 25

Middle Channel / 15MHz / QPSK

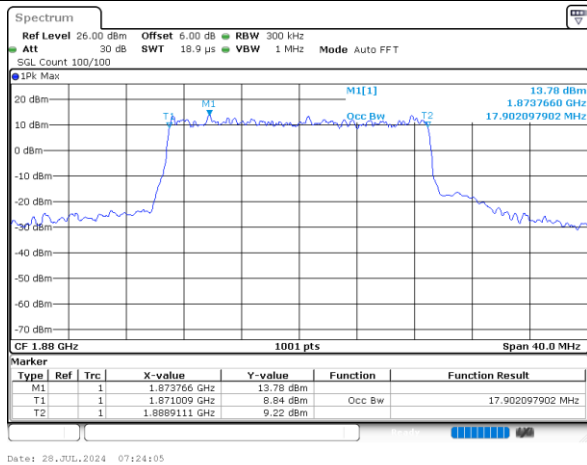


Middle Channel / 15MHz / 16QAM

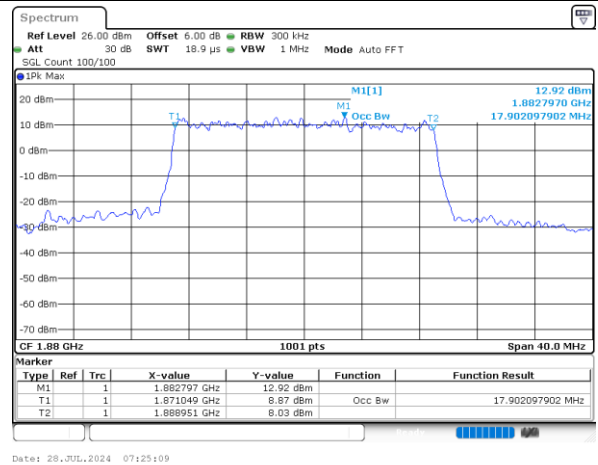


LTE Band 25

Middle Channel / 20MHz / QPSK



Middle Channel / 20MHz / 16QAM

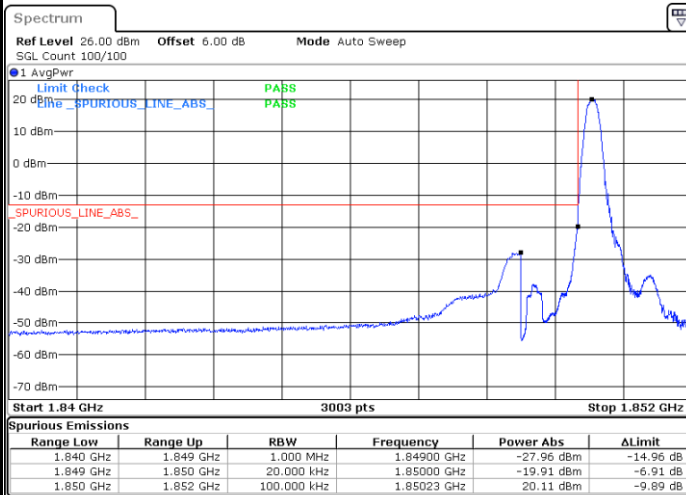




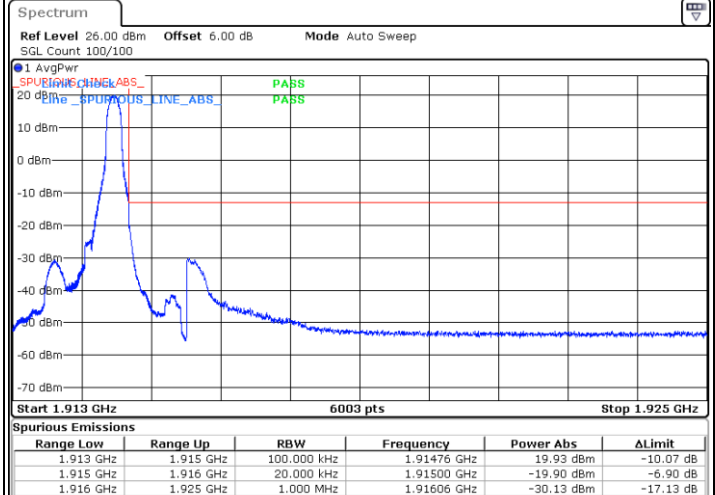
Conducted Band Edge

LTE Band 25 / 1.4MHz / QPSK

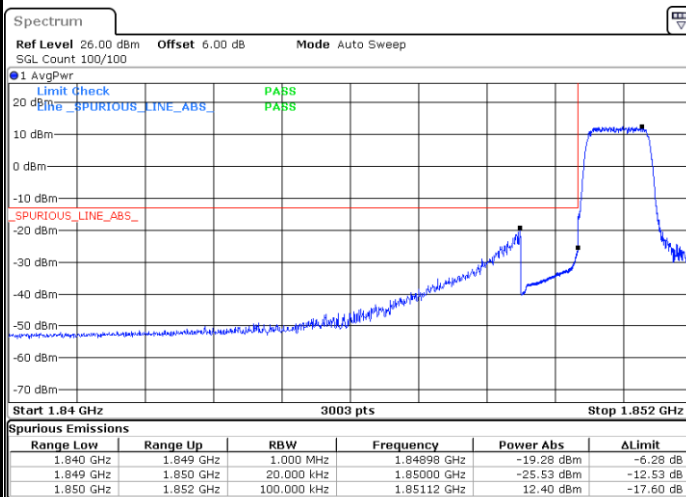
Lowest Band Edge / 1RB



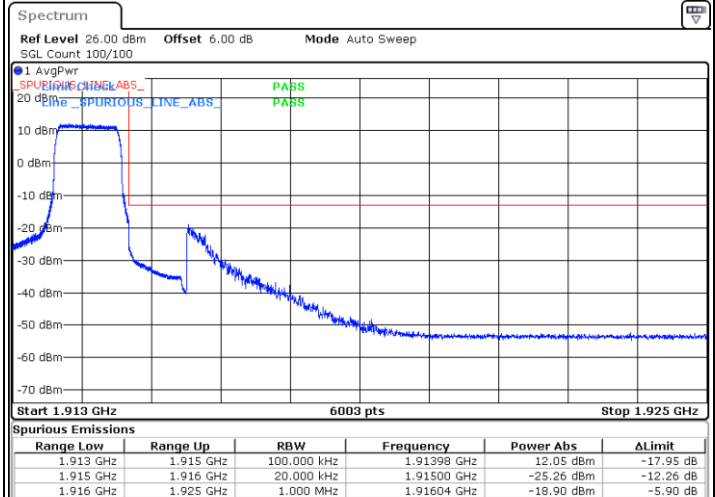
Highest Band Edge / 1RB



Lowest Band Edge / Full RB



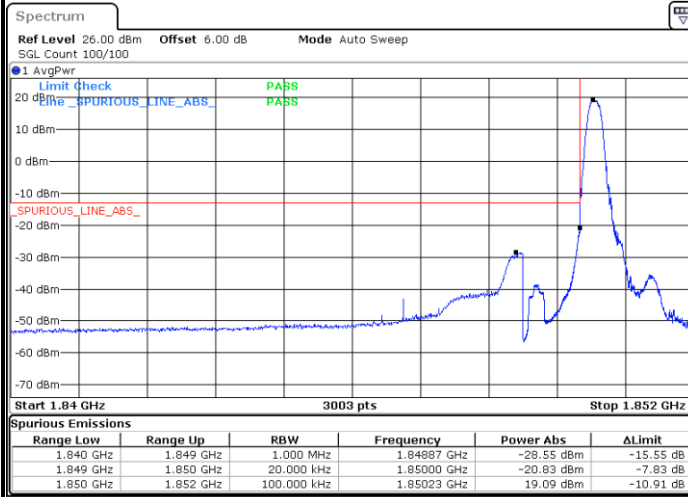
Highest Band Edge / Full RB



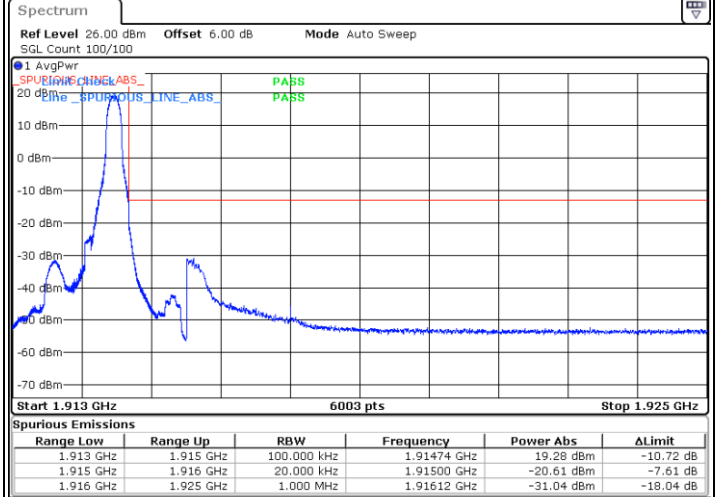


LTE Band 25 / 1.4MHz / 16QAM

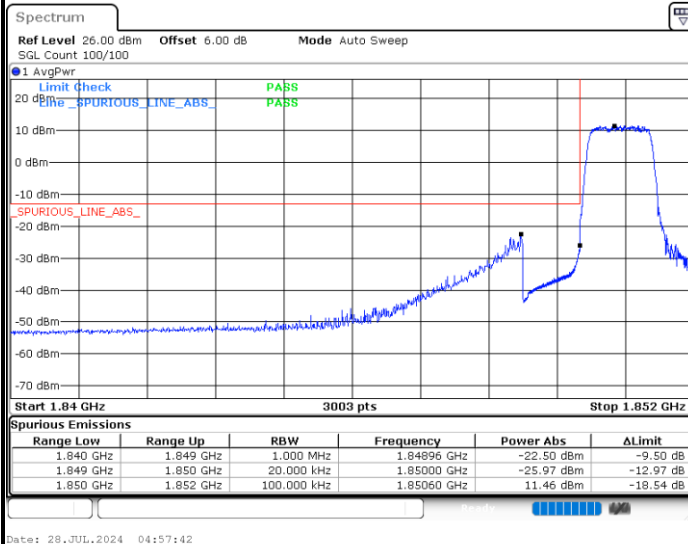
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

