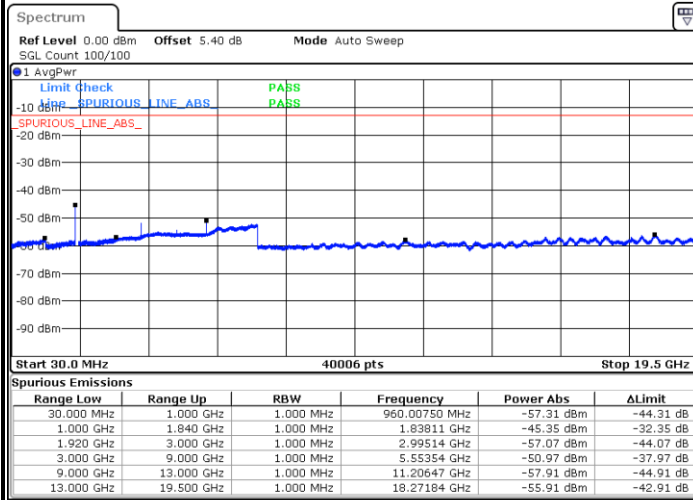




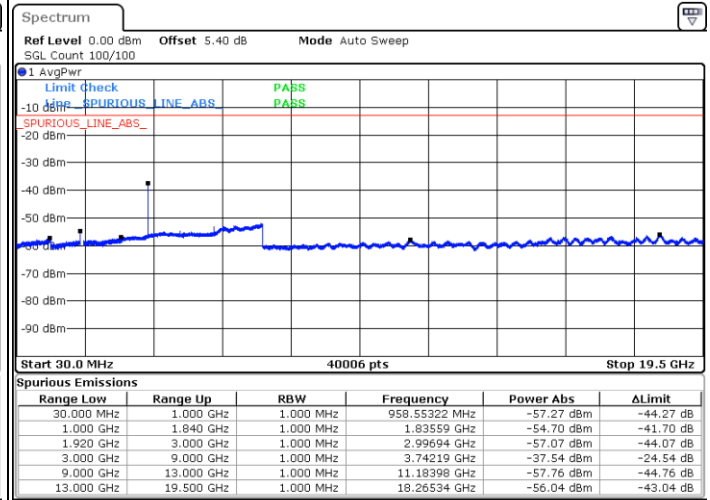
LTE Band 2 / 20MHz

Lowest Channel / QPSK



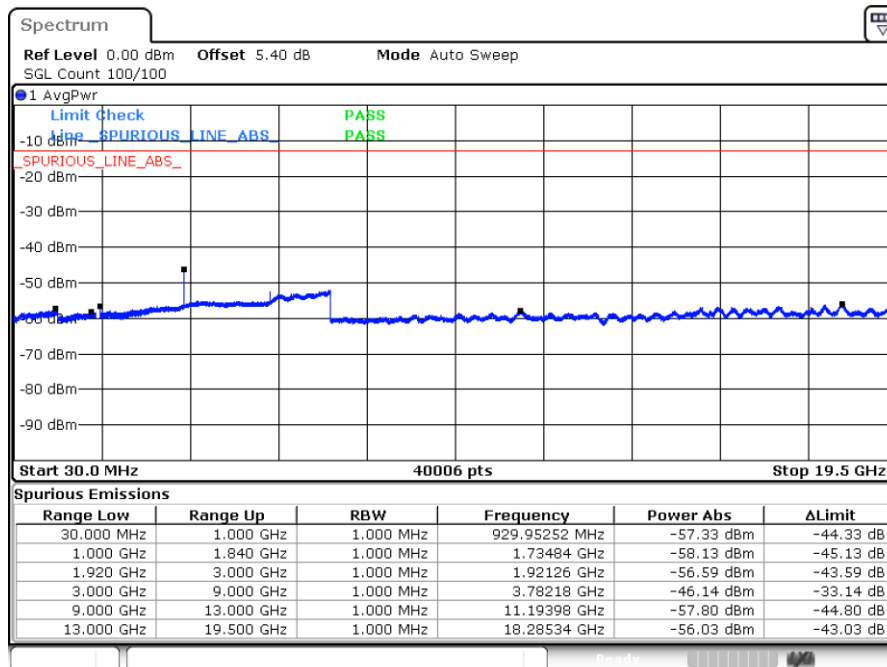
Date: 4.APR.2023 12:12:36

Middle Channel / QPSK



Date: 4.APR.2023 12:14:39

Highest Channel / QPSK



Date: 4.APR.2023 12:16:42

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	0.0036	
30	Normal Voltage	0.0008	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0024	
0	Normal Voltage	0.0031	
-10	Normal Voltage	0.0019	
-20	Normal Voltage	0.0027	
-30	Normal Voltage	0.0006	
20	Maximum Voltage	0.0017	
20	Normal Voltage	0.0039	
20	Battery End Point	0.0014	

Note:

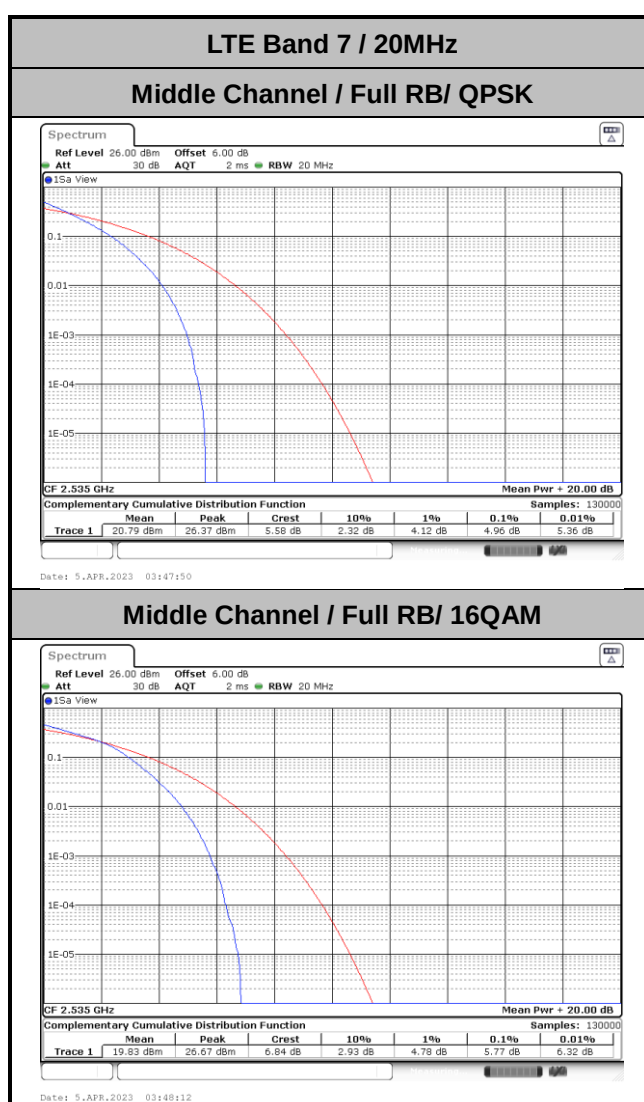
1. Normal Voltage = 3.91 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage = 4.5 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 7

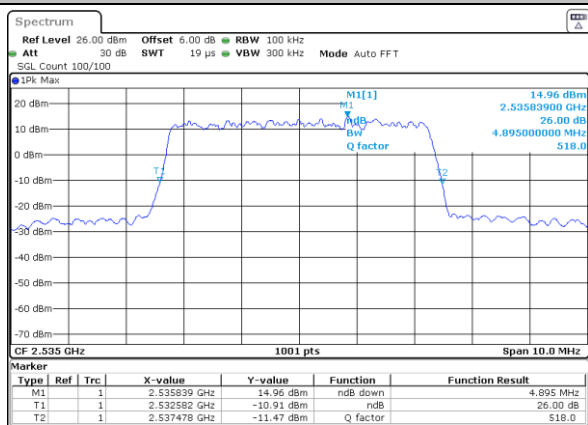
Peak-to-Average Ratio

Mode	LTE Band 7 / 20MHz			
Mod.	QPSK	16QAM	-	Limit: 13dB
RB Size	Full RB	Full RB	-	Result
Middle CH	4.96	5.77	-	PASS

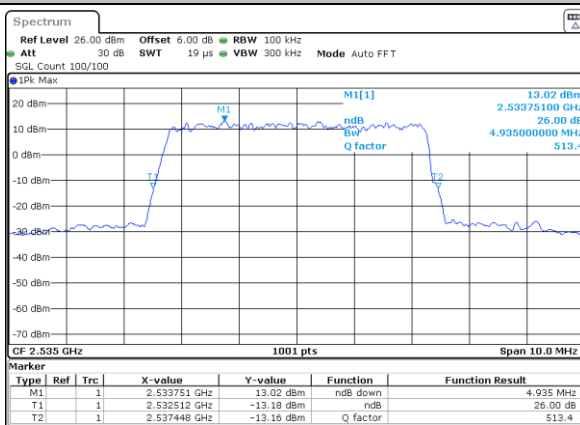


**26dB Bandwidth**

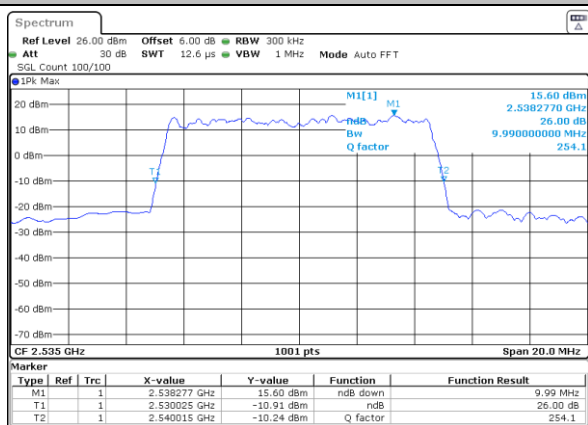
Mode	LTE Band 7 : 26dB BW(MHz)							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	4.90	4.94	9.99	9.95	14.24	14.66	18.86	19.06

LTE Band 7**Middle Channel / 5MHz / QPSK**

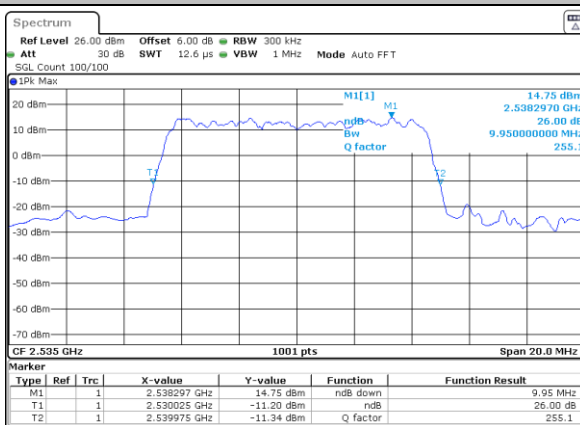
Date: 5.APR.2023 03:49:18

Middle Channel / 5MHz / 16QAM

Date: 5.APR.2023 03:49:39

LTE Band 7**Middle Channel / 10MHz / QPSK**

Date: 5.APR.2023 03:50:42

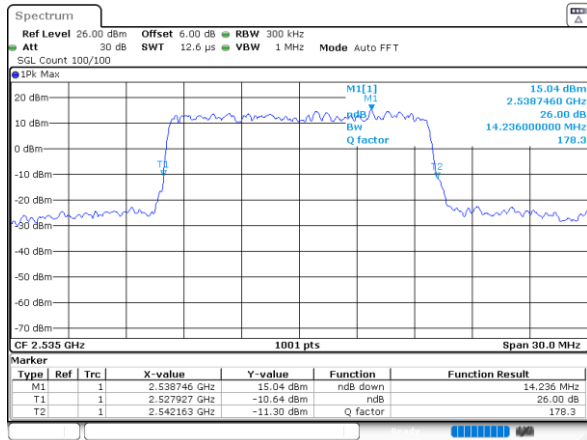
Middle Channel / 10MHz / 16QAM

Date: 5.APR.2023 03:51:03

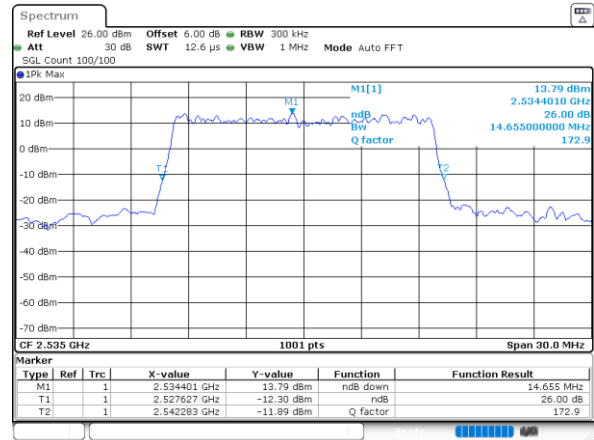


LTE Band 7

Middle Channel / 15MHz / QPSK

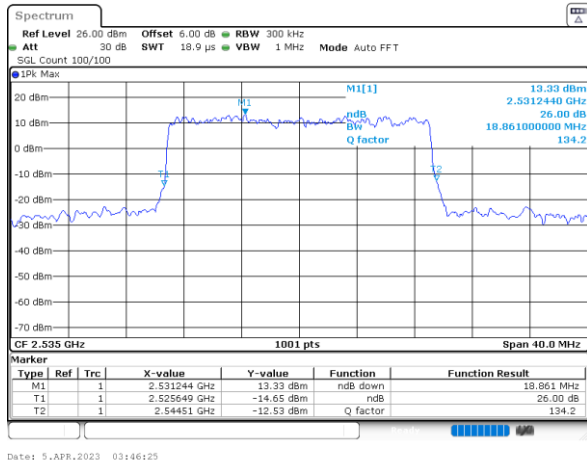


Middle Channel / 15MHz / 16QAM

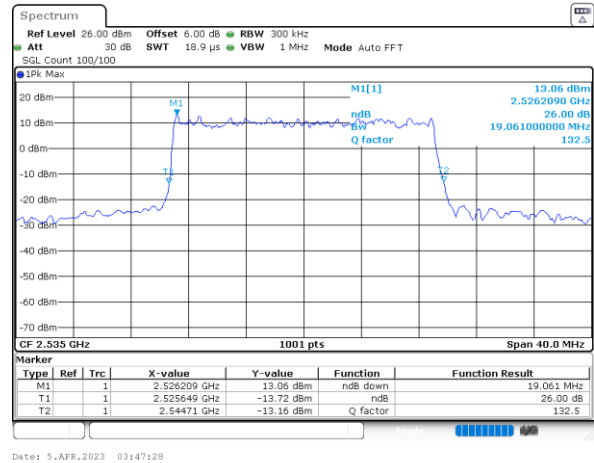


LTE Band 7

Middle Channel / 20MHz / QPSK



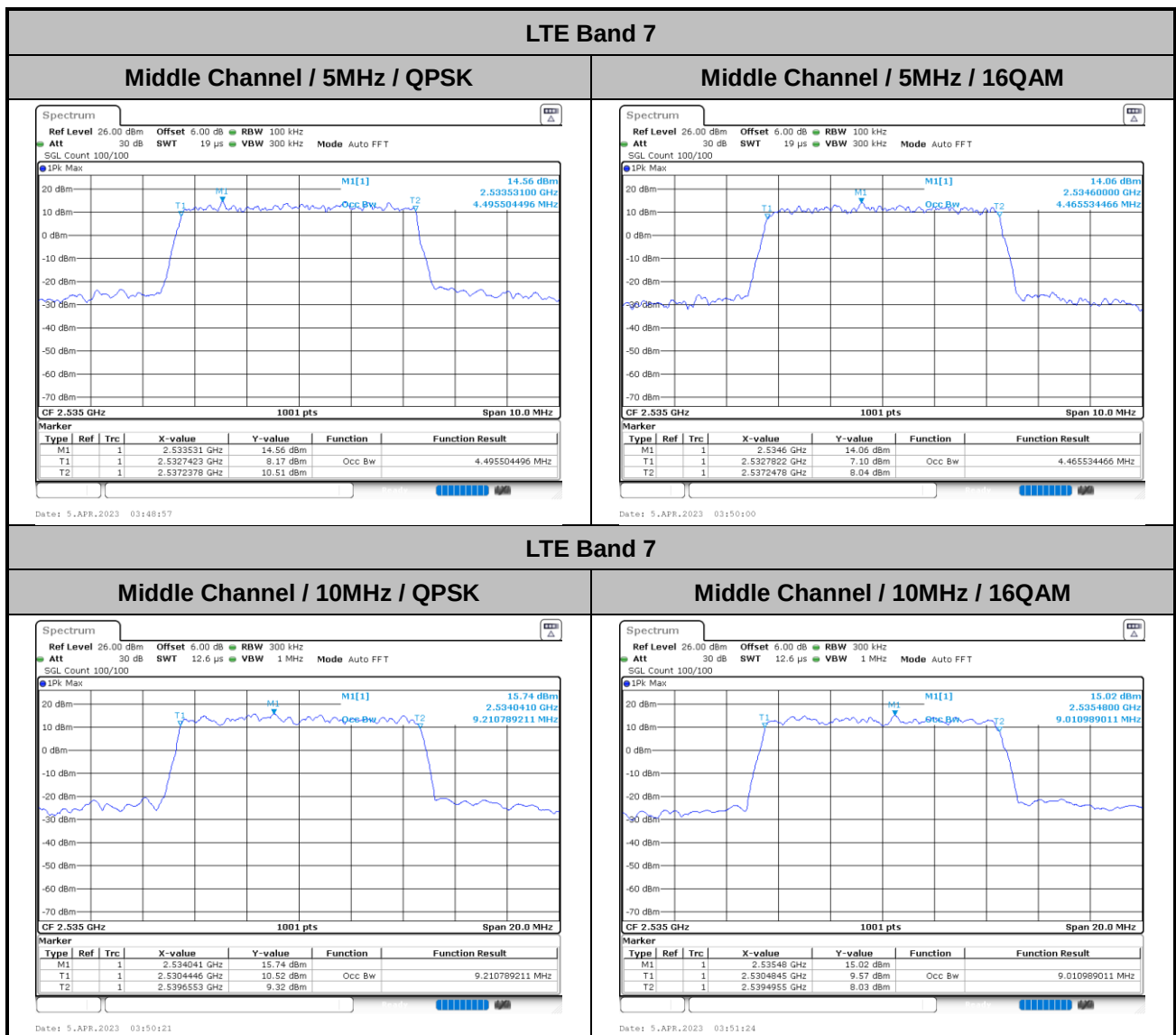
Middle Channel / 20MHz / 16QAM





Occupied Bandwidth

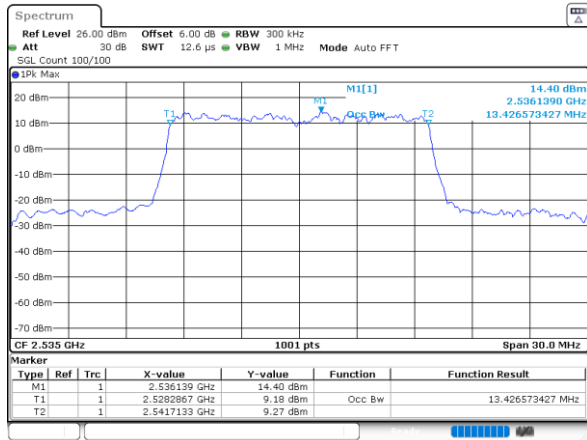
Mode	LTE Band 7 : 99%OBW(MHz)							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	4.50	4.47	9.21	9.01	13.43	13.49	17.86	17.94



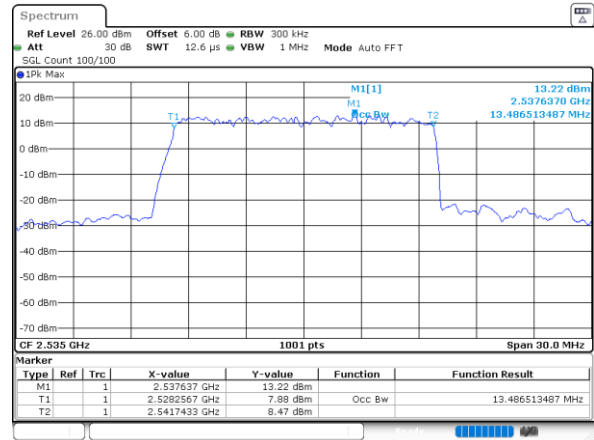


LTE Band 7

Middle Channel / 15MHz / QPSK

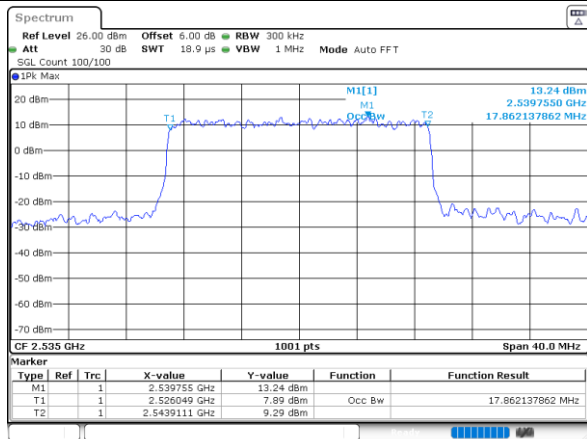


Middle Channel / 15MHz / 16QAM

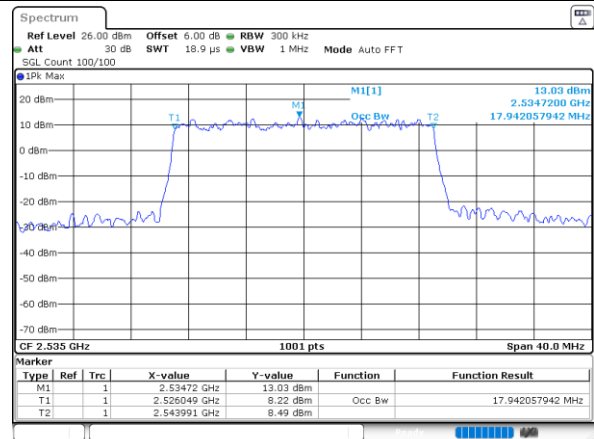


LTE Band 7

Middle Channel / 20MHz / QPSK



Middle Channel / 20MHz / 16QAM

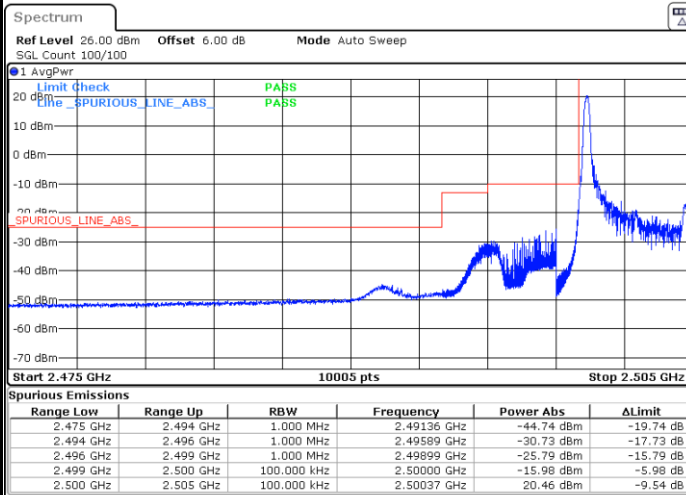




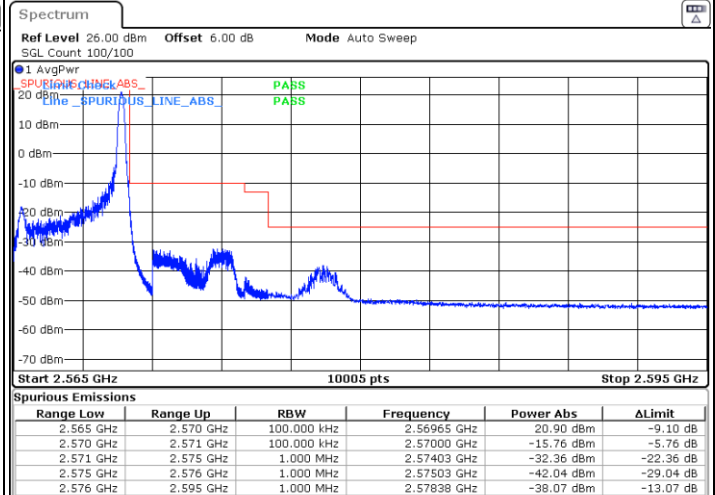
Conducted Band Edge

LTE Band 7 / 5MHz / QPSK

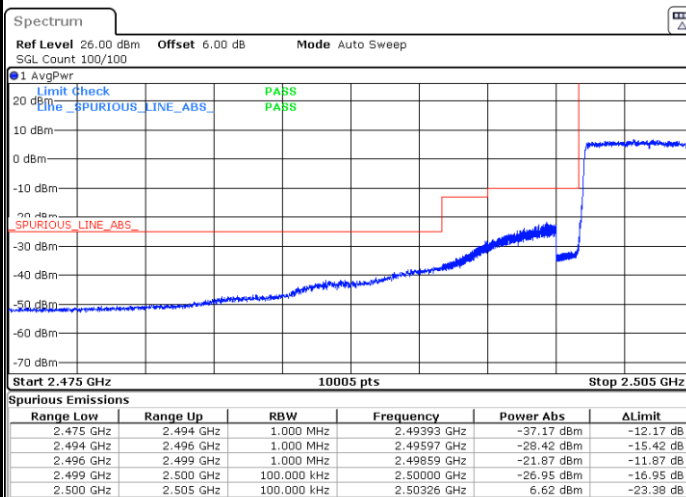
Lowest Band Edge / 1 RB



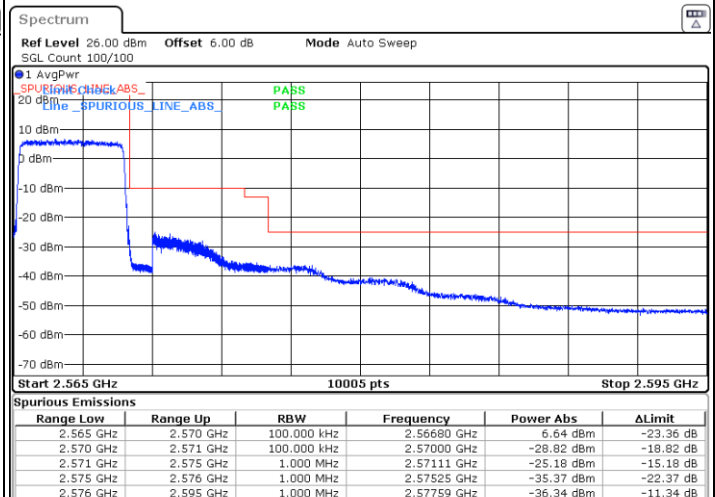
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



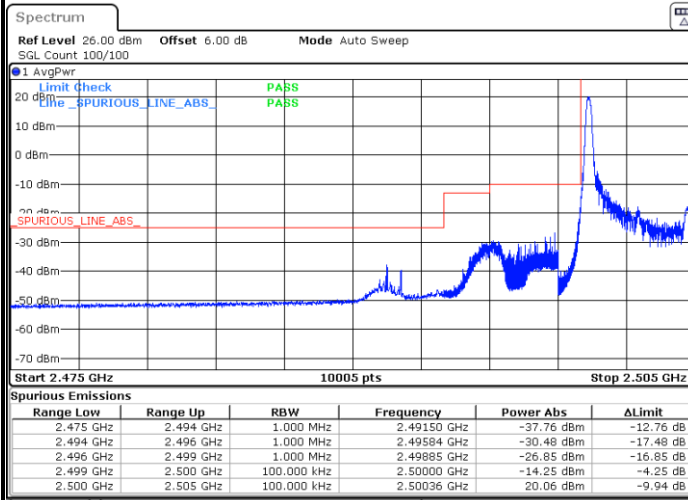
Highest Band Edge / Full RB



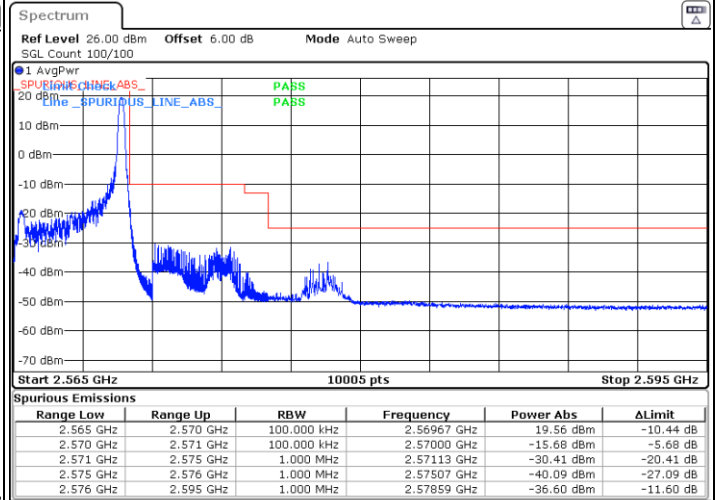


LTE Band 7 / 5MHz / 16QAM

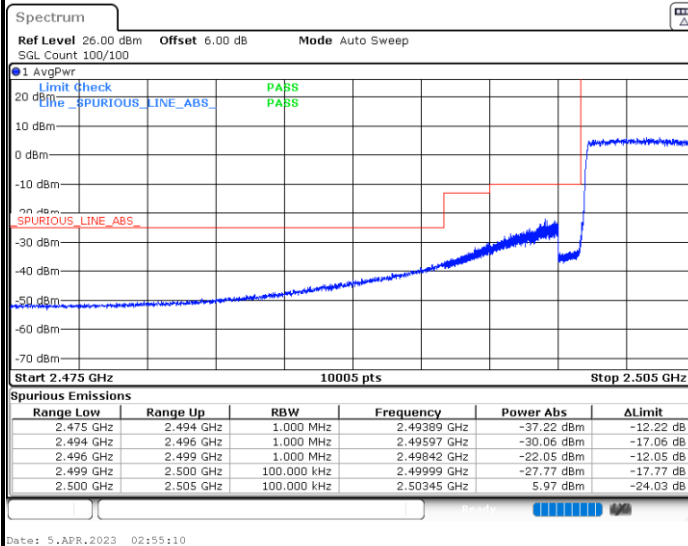
Lowest Band Edge / 1RB



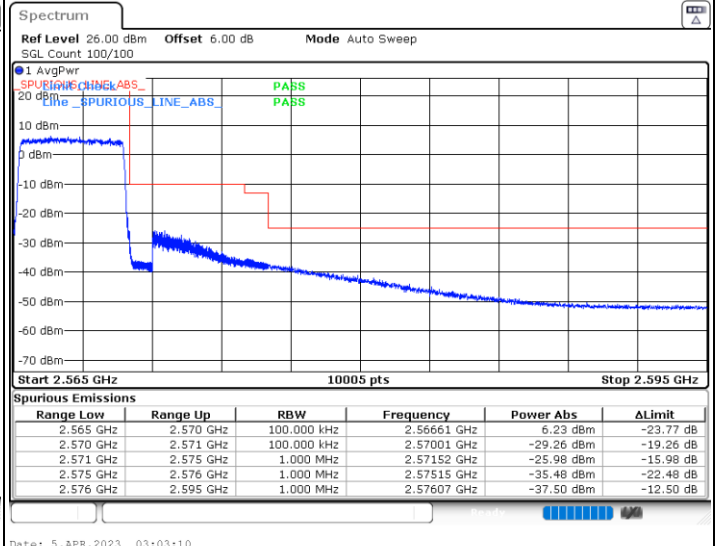
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



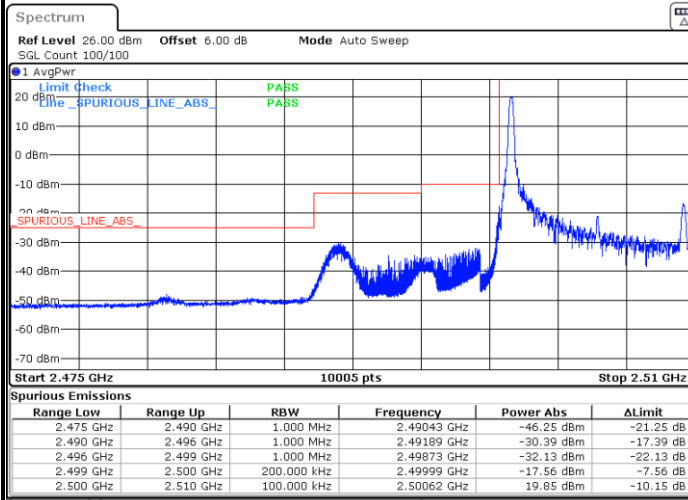
Highest Band Edge / Full RB



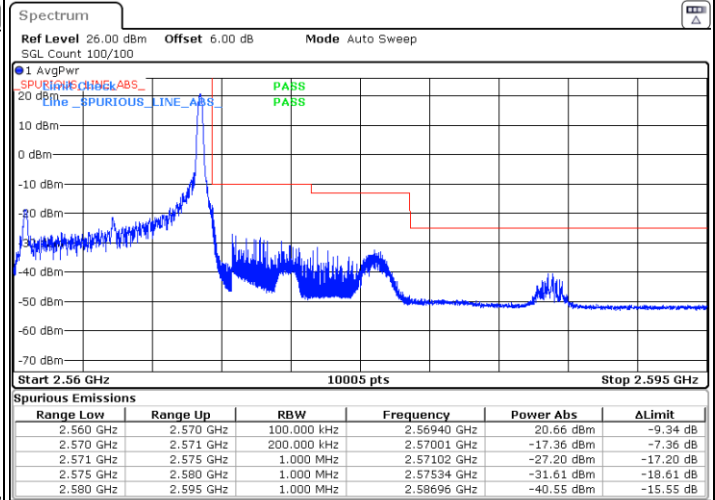


LTE Band 7 / 10MHz / QPSK

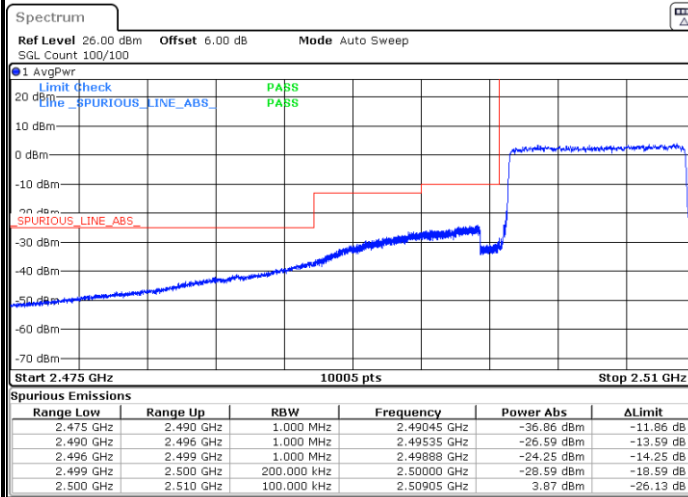
Lowest Band Edge / 1 RB



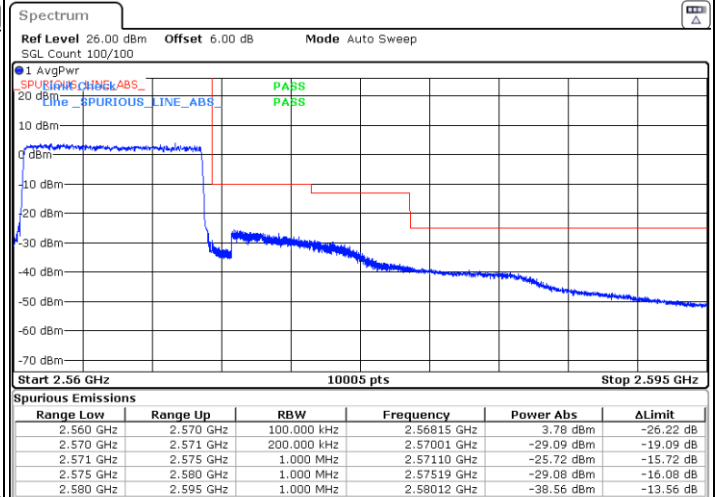
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



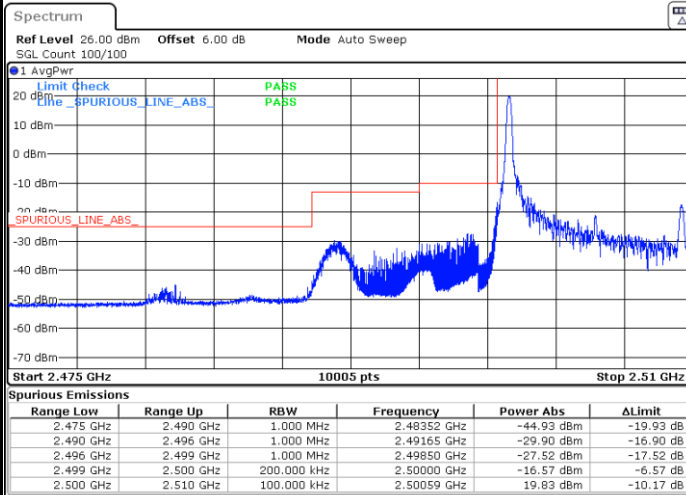
Highest Band Edge / Full RB



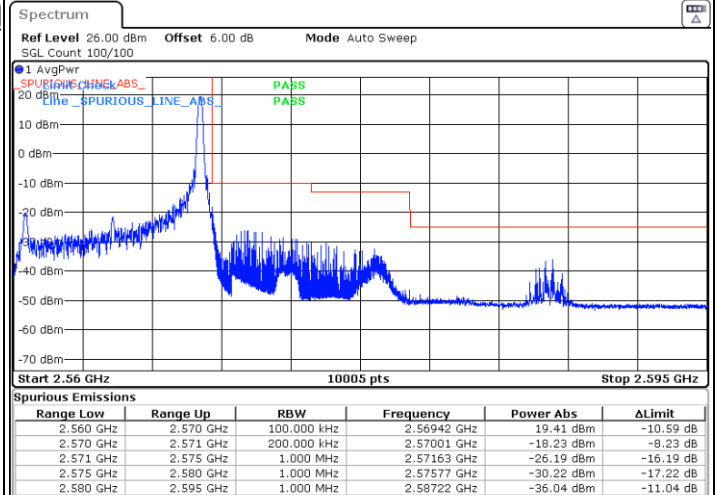


LTE Band 7 / 10MHz / 16QAM

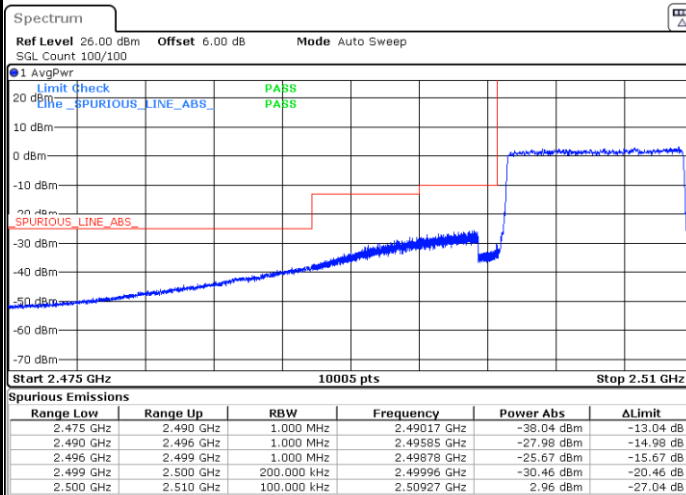
Lowest Band Edge / 1 RB



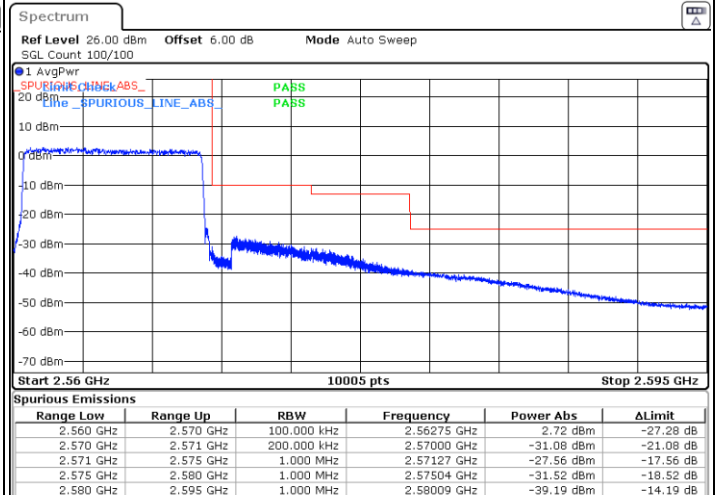
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



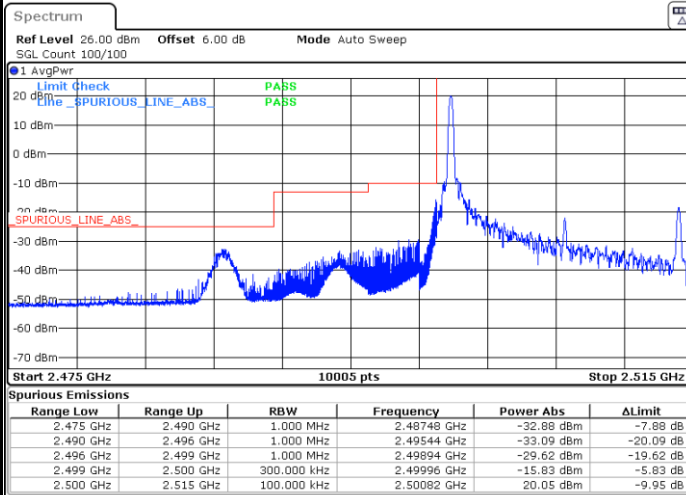
Highest Band Edge / Full RB



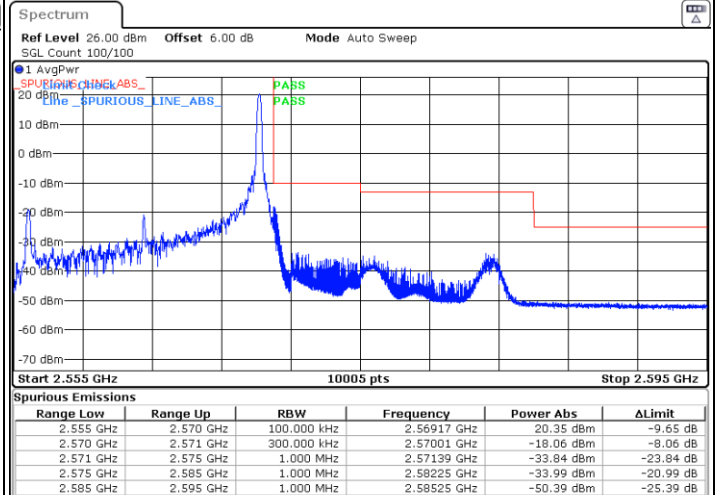


LTE Band 7 / 15MHz / QPSK

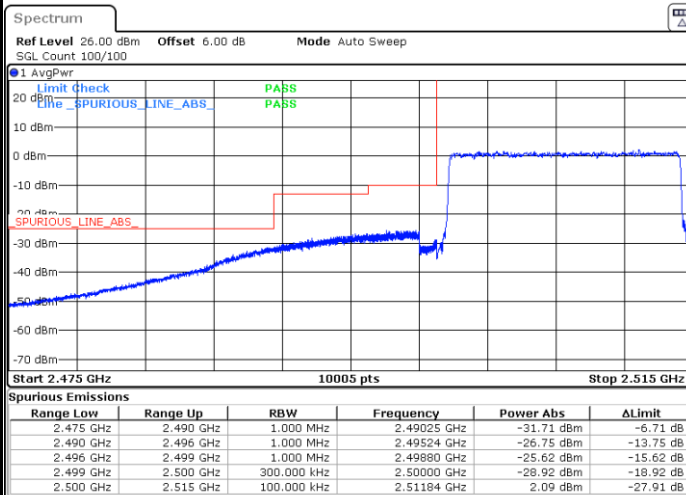
Lowest Band Edge / 1 RB



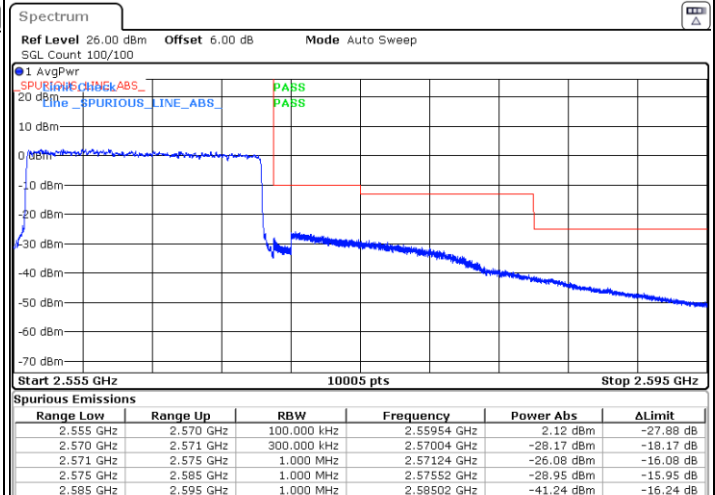
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



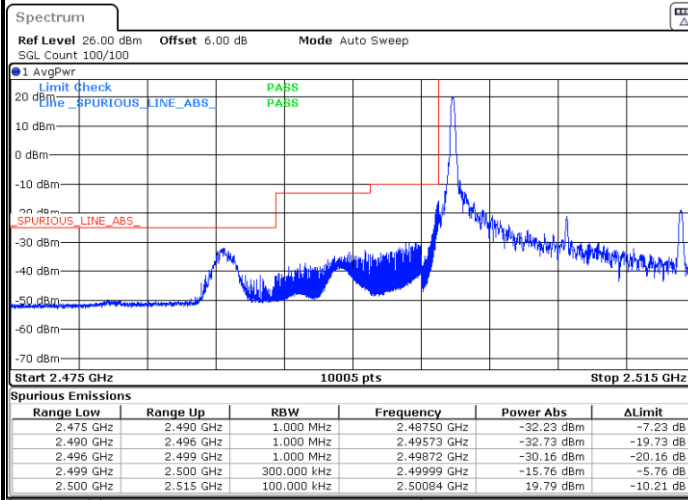
Highest Band Edge / Full RB



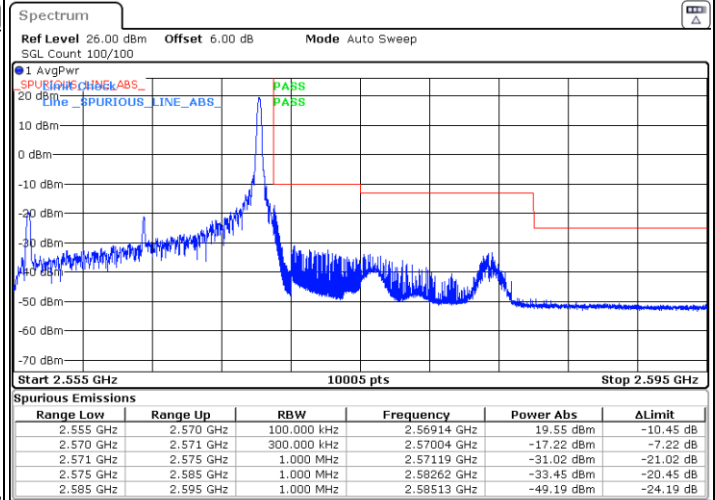


LTE Band 7 / 15MHz / 16QAM

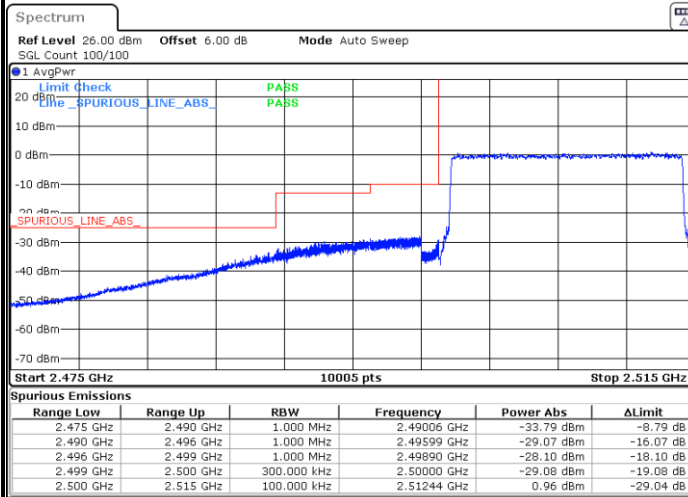
Lowest Band Edge / 1 RB



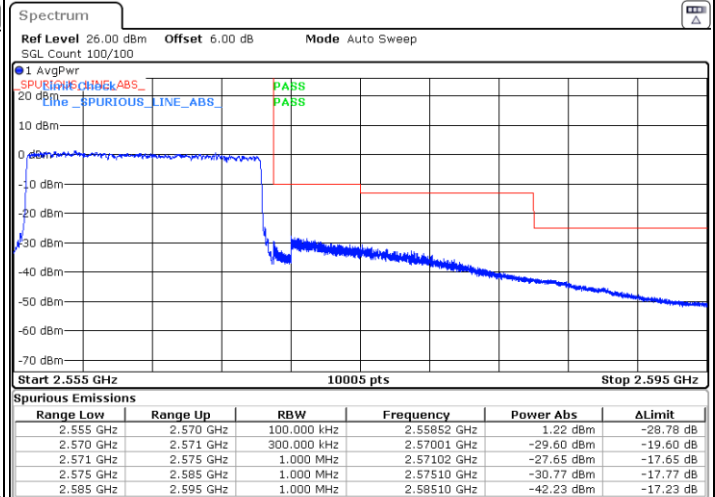
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



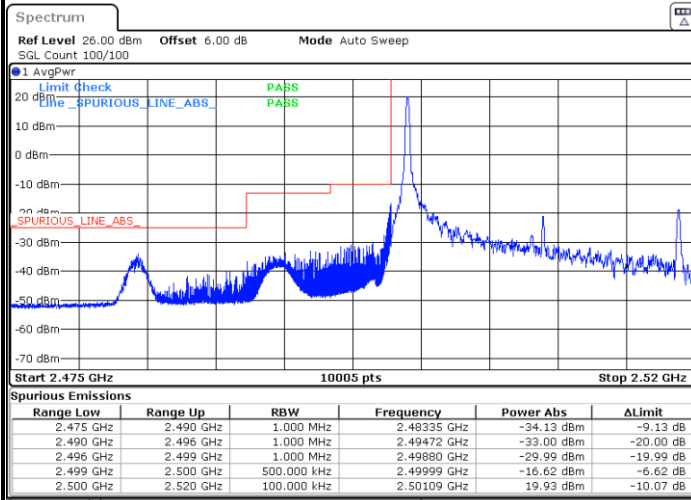
Highest Band Edge / Full RB



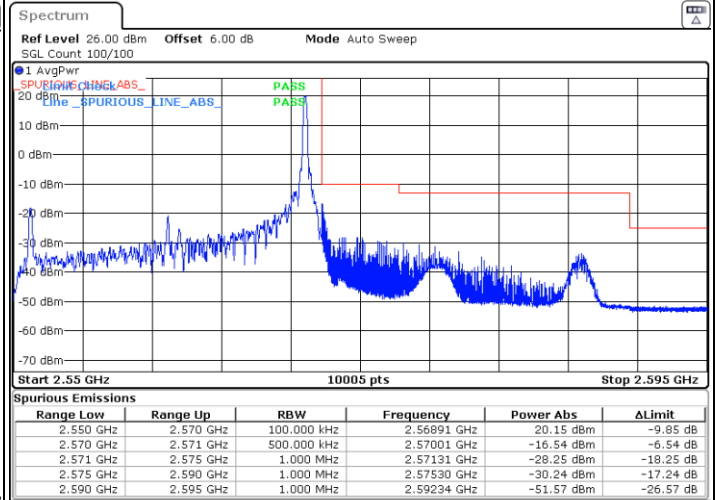


LTE Band 7 / 20MHz / QPSK

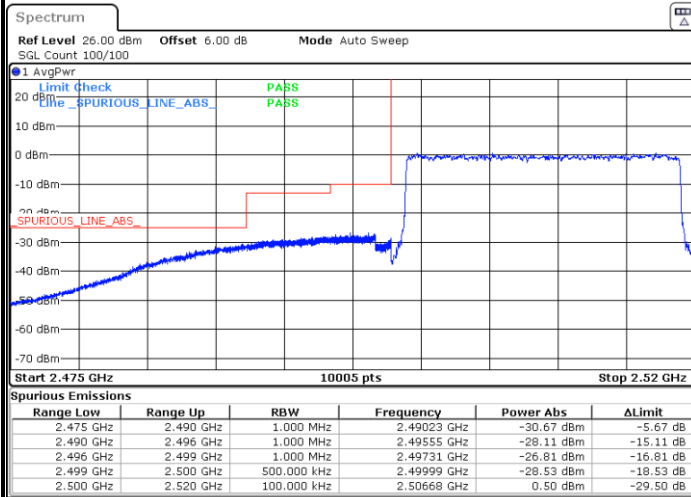
Lowest Band Edge / 1 RB



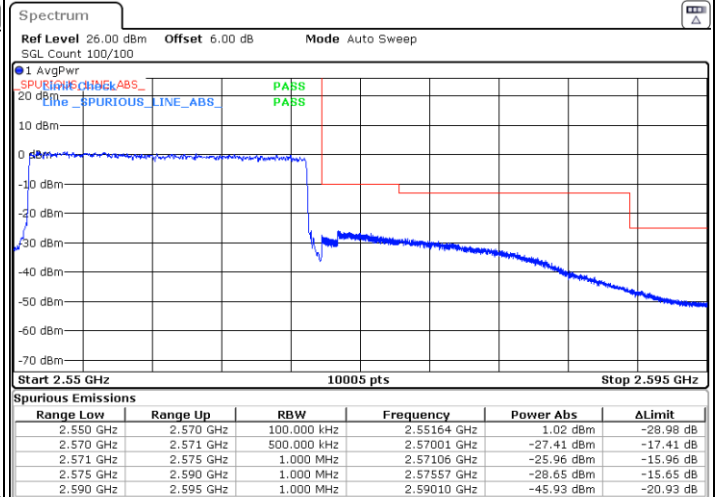
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



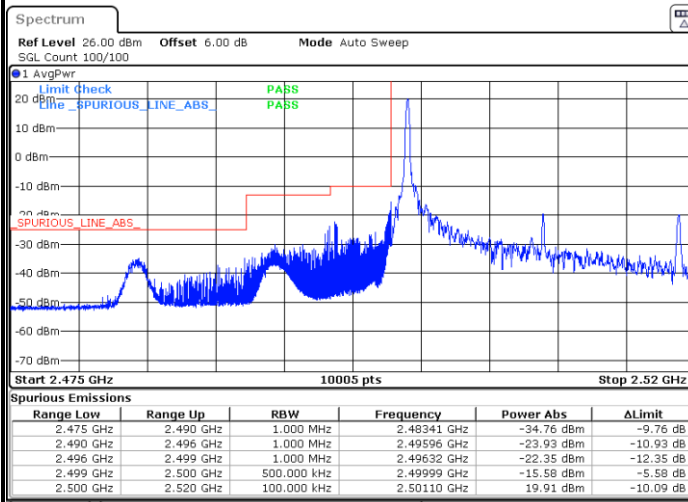
Highest Band Edge / Full RB



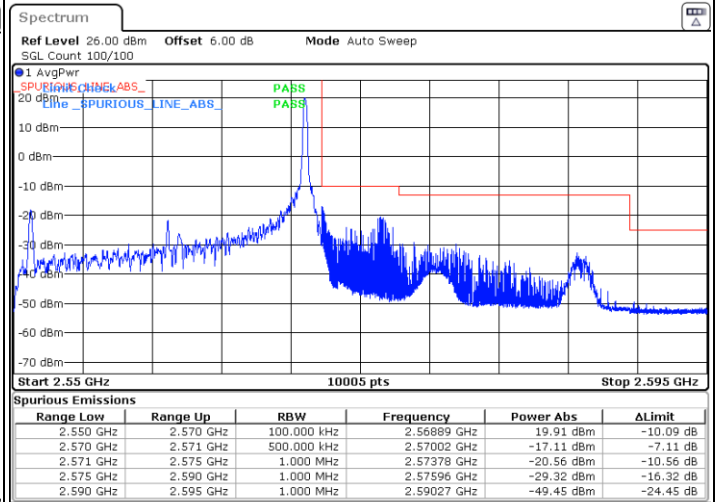


LTE Band 7 / 20MHz / 16QAM

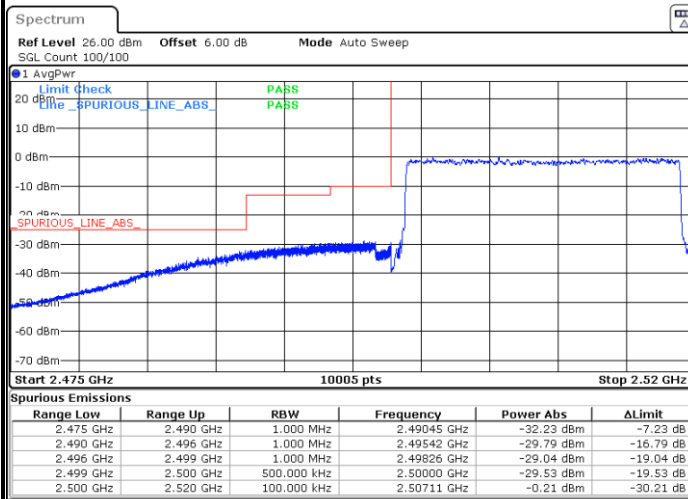
Lowest Band Edge / 1 RB



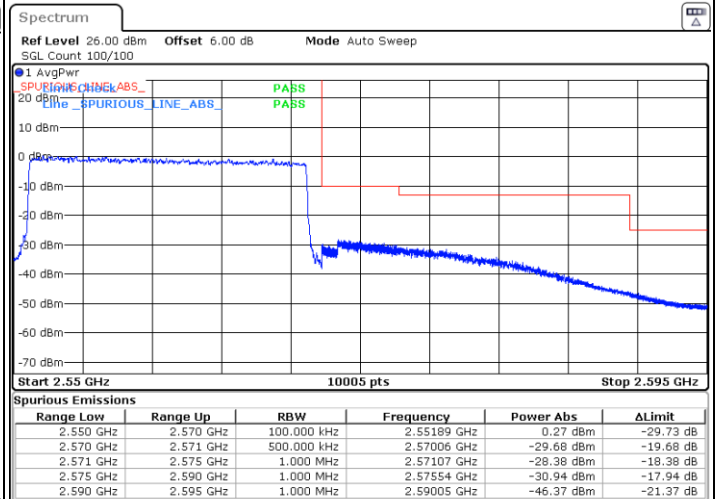
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

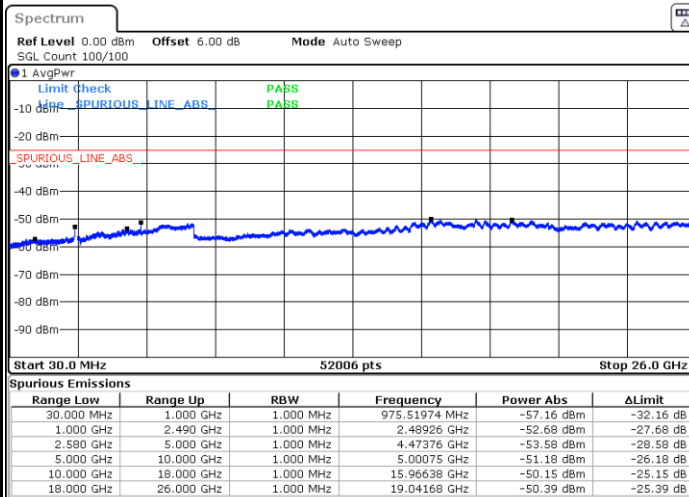




Conducted Spurious Emission

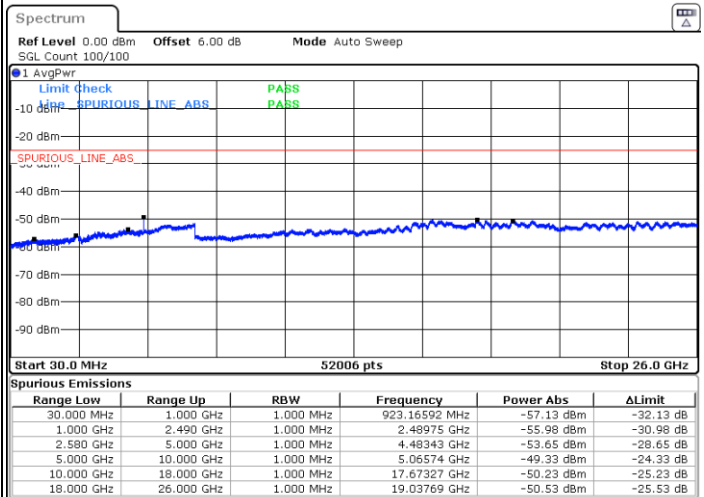
LTE Band 7 / 5MHz

Lowest Channel / QPSK



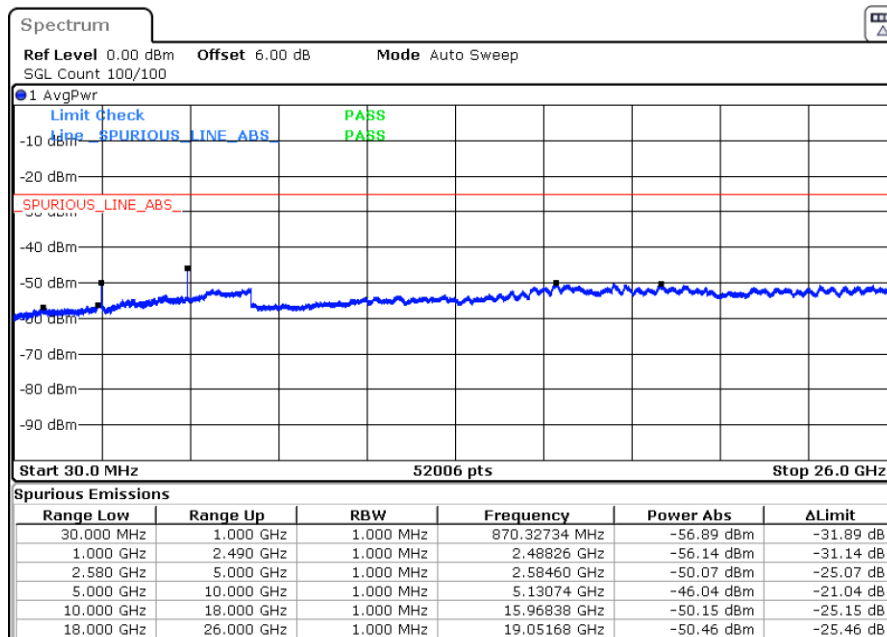
Date: 5.APR.2023 02:51:46

Middle Channel / QPSK



Date: 5.APR.2023 02:57:49

Highest Channel / QPSK

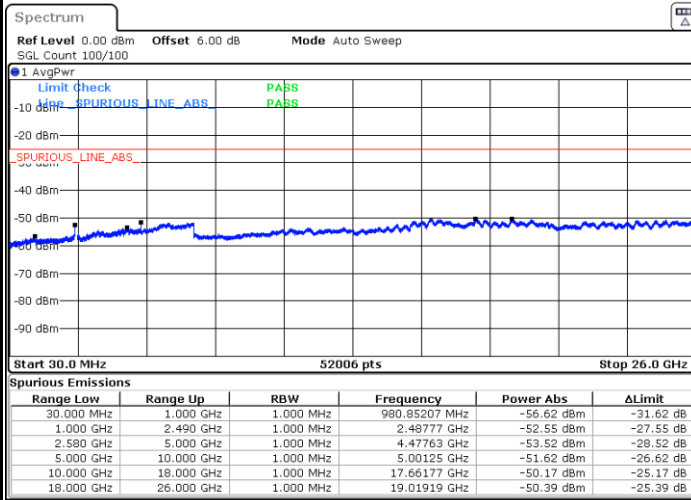


Date: 5.APR.2023 02:59:48



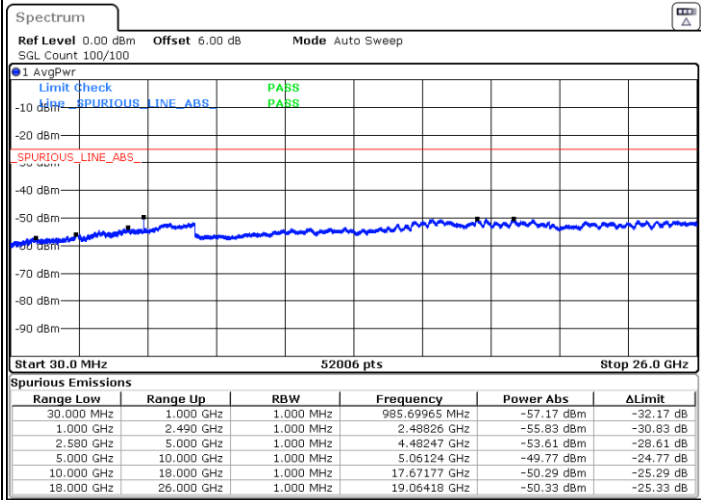
LTE Band 7 / 10MHz

Lowest Channel / QPSK



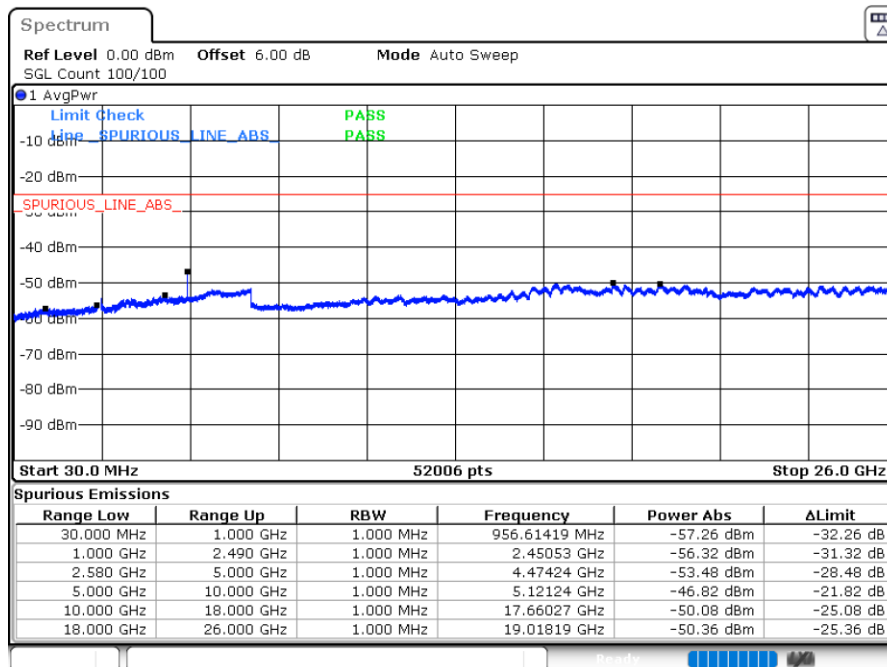
Date: 5.APR.2023 03:05:50

Middle Channel / QPSK



Date: 5.APR.2023 03:11:52

Highest Channel / QPSK

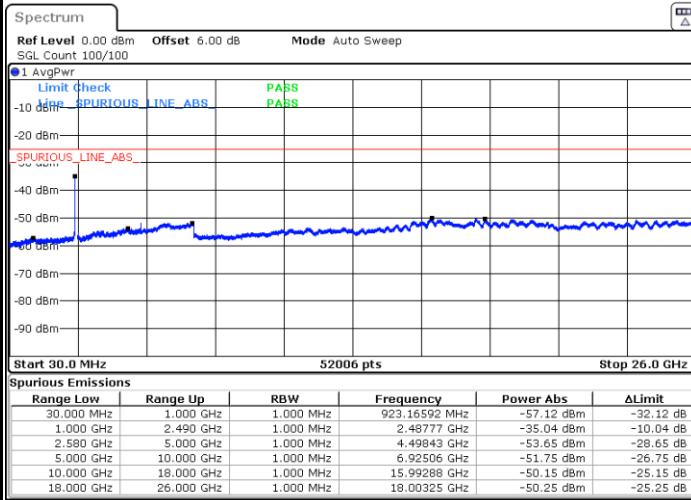


Date: 5.APR.2023 03:13:53



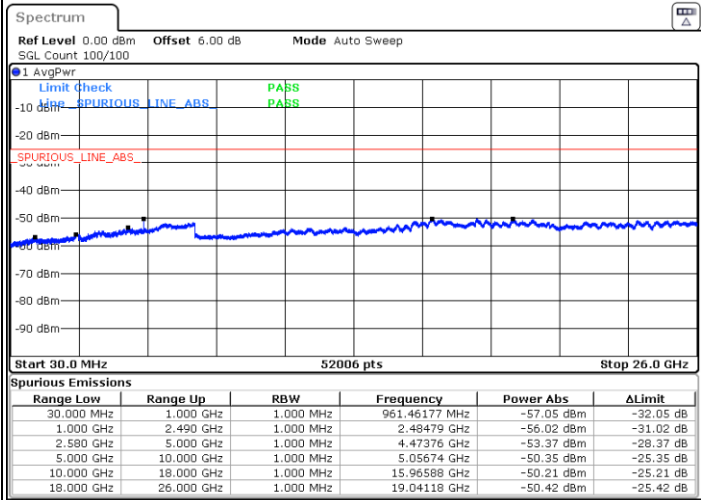
LTE Band 7 / 15MHz

Lowest Channel / QPSK



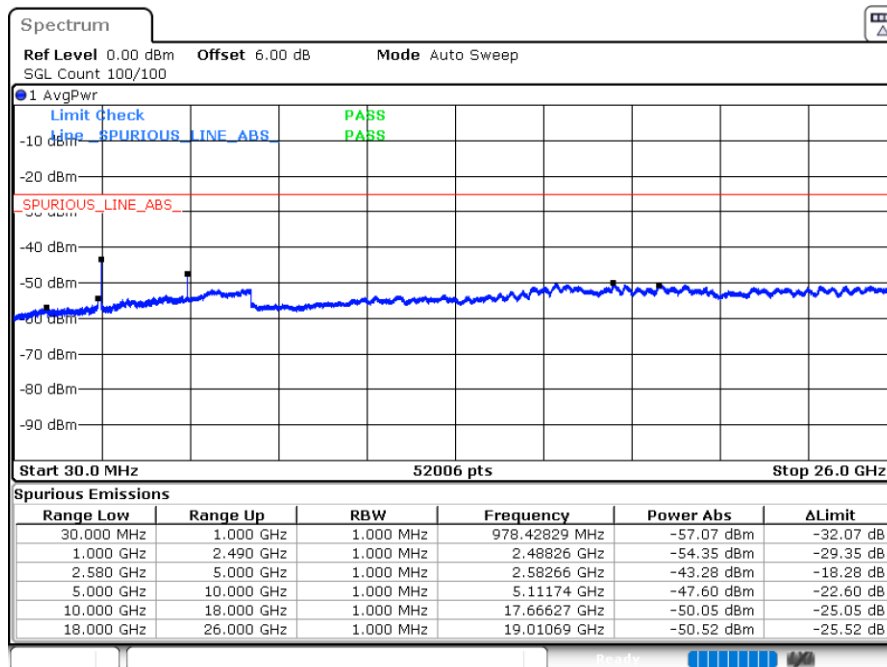
Date: 5.APR.2023 03:19:56

Middle Channel / QPSK



Date: 5.APR.2023 03:25:59

Highest Channel / QPSK

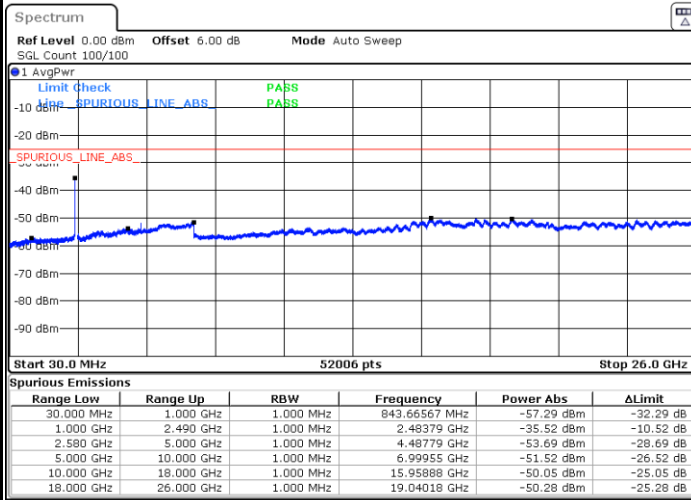


Date: 5.APR.2023 03:27:58



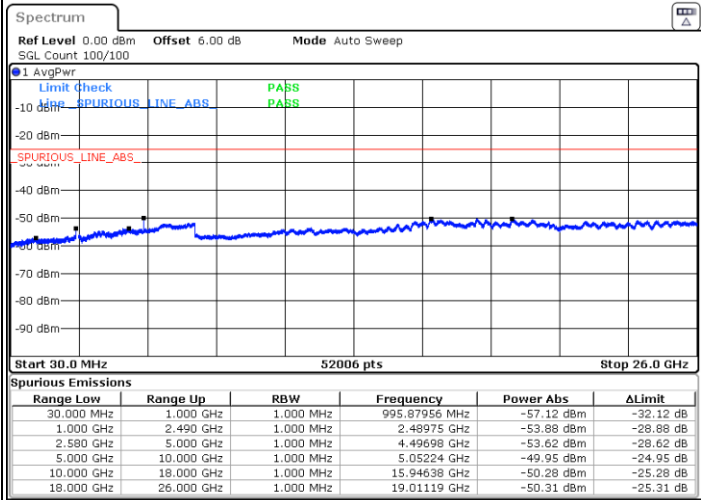
LTE Band 7 / 20MHz

Lowest Channel / QPSK



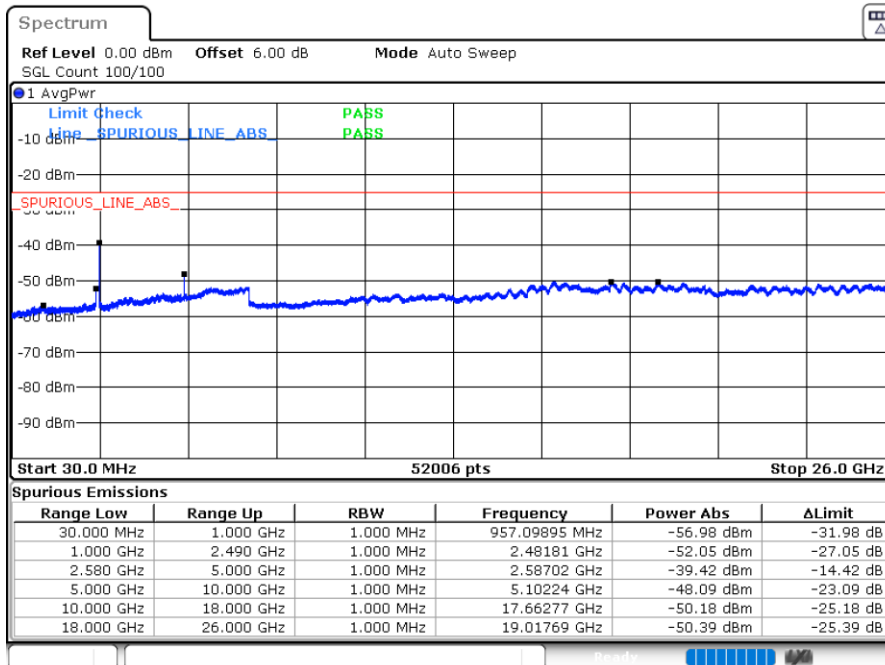
Date: 5.APR.2023 03:34:00

Middle Channel / QPSK



Date: 5.APR.2023 03:40:03

Highest Channel / QPSK



Date: 5.APR.2023 03:42:02

Frequency Stability

Test Conditions		LTE Band 7 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0025	PASS
40	Normal Voltage	0.0036	
30	Normal Voltage	0.0021	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0034	
0	Normal Voltage	0.0037	
-10	Normal Voltage	0.0016	
-20	Normal Voltage	0.0042	
-30	Normal Voltage	0.0011	
20	Maximum Voltage	0.0009	
20	Normal Voltage	0.0027	
20	Battery End Point	0.0013	

Note:

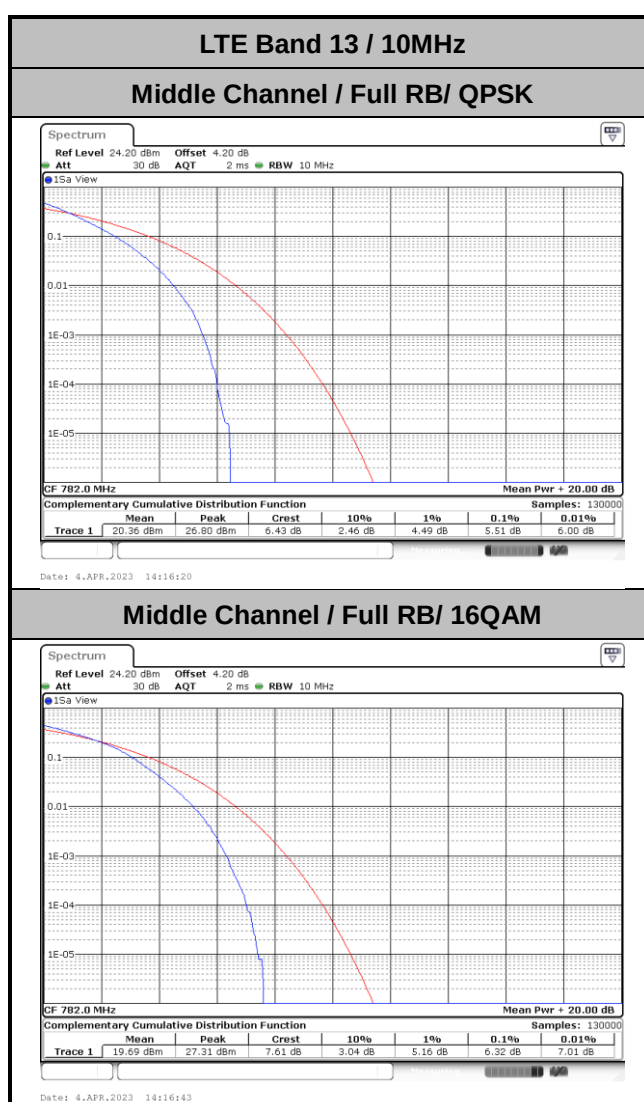
1. Normal Voltage =3.91 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.5 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 13

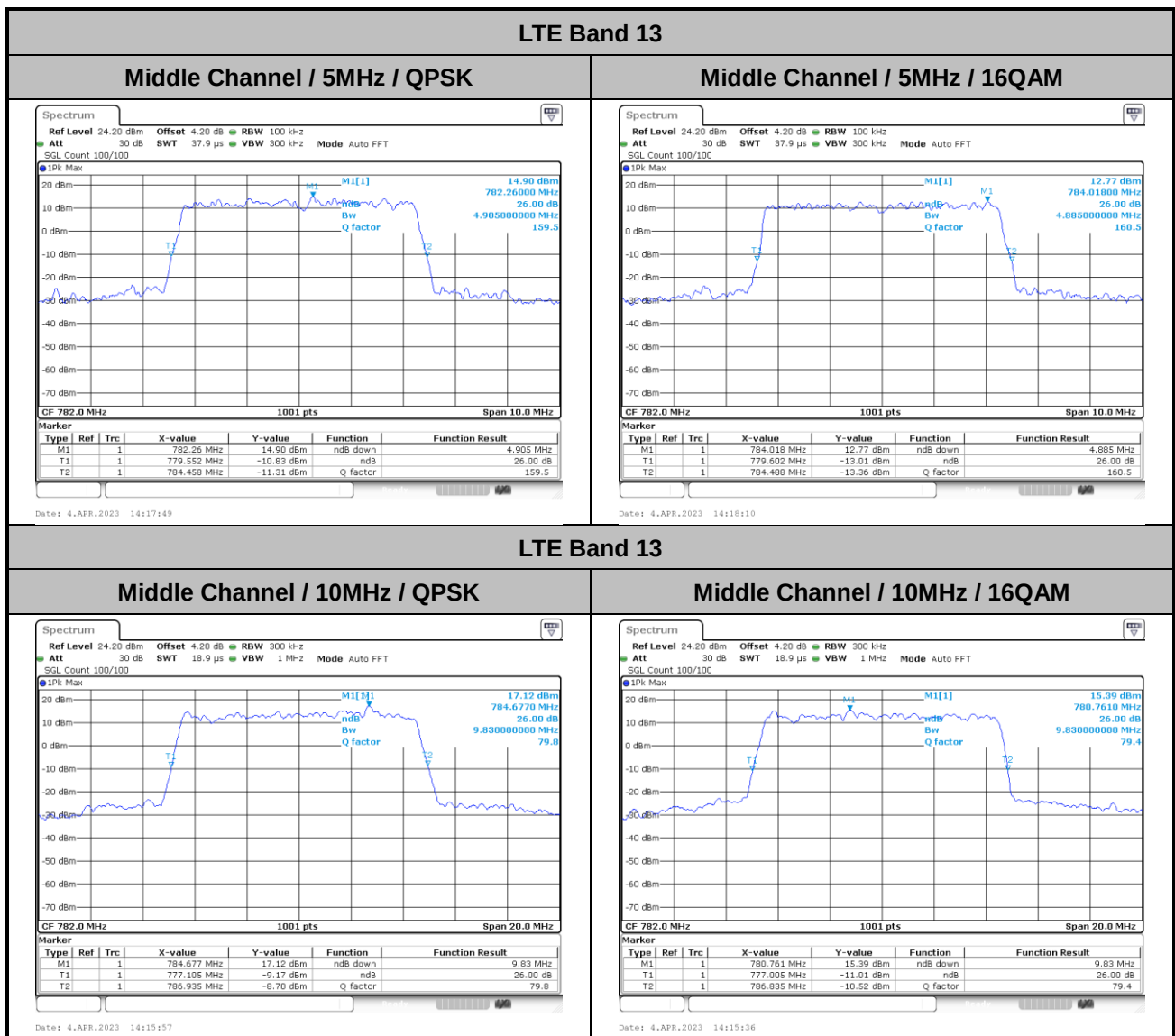
Peak-to-Average Ratio

Mode	LTE Band 13 / 10MHz			
Mod.	QPSK	16QAM	-	Limit: 13dB
RB Size	Full RB	Full RB	-	Result
Middle CH	5.51	6.32	-	PASS



**26dB Bandwidth**

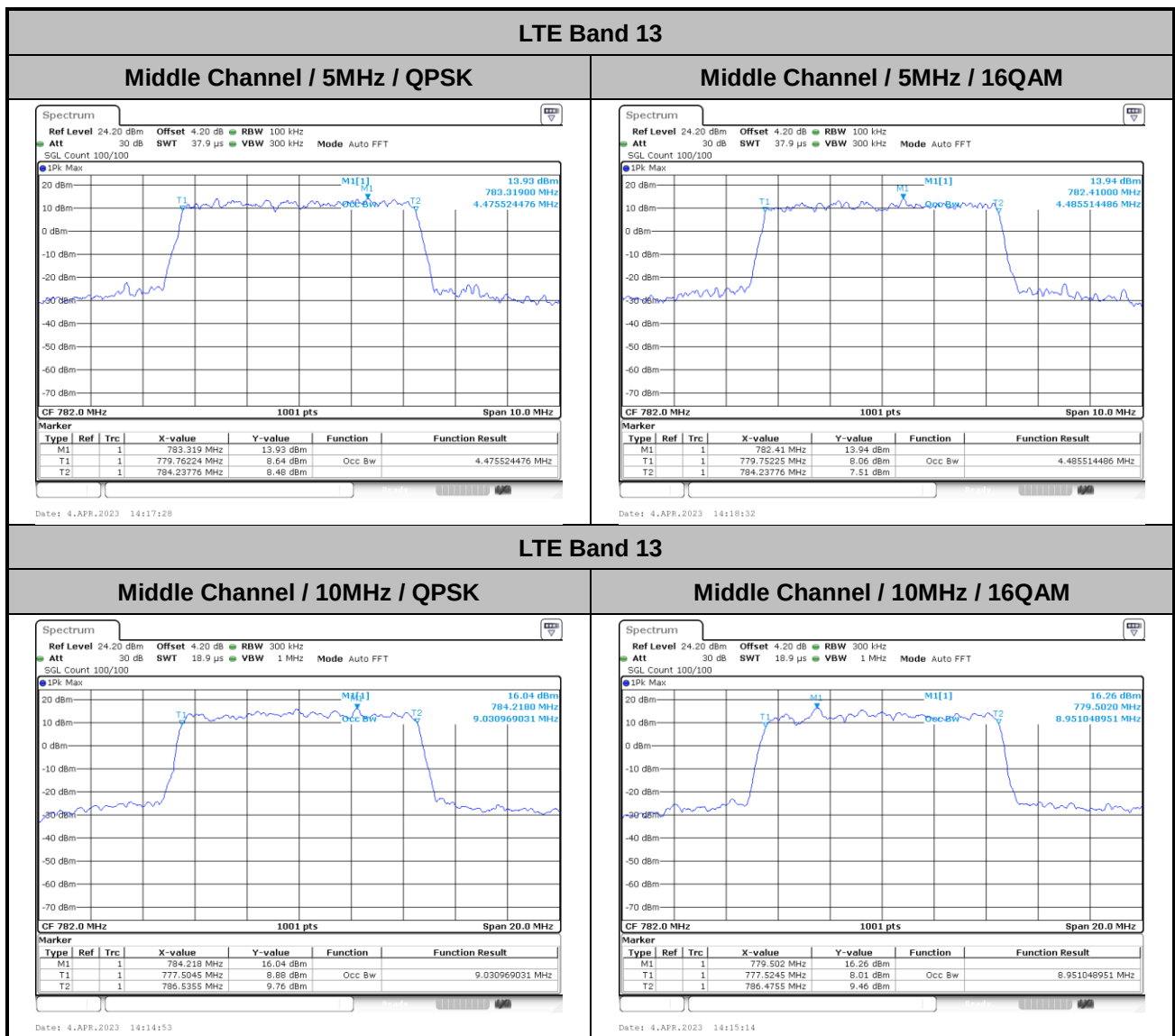
Mode	LTE Band 13 : 26dB BW(MHz)	
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	4.91	4.89
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.83	9.83





Occupied Bandwidth

Mode	LTE Band 13 : 99%OBW(MHz)	
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	4.48	4.49
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.03	8.95

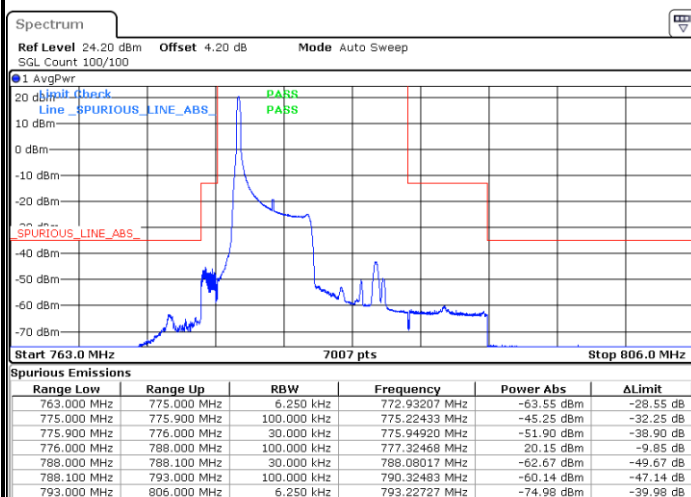




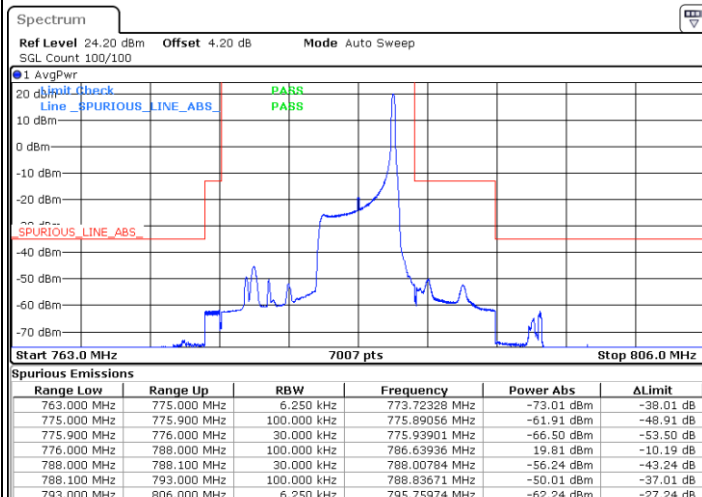
Conducted Band Edge

LTE Band 13 / 5MHz / QPSK

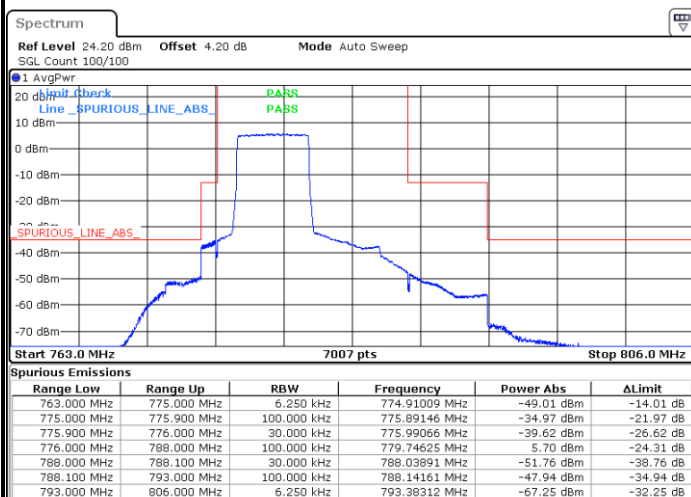
Lowest Band Edge / 1 RB



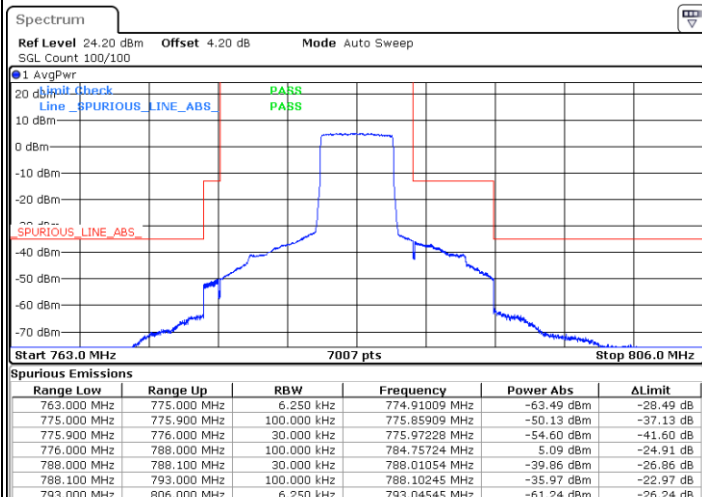
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



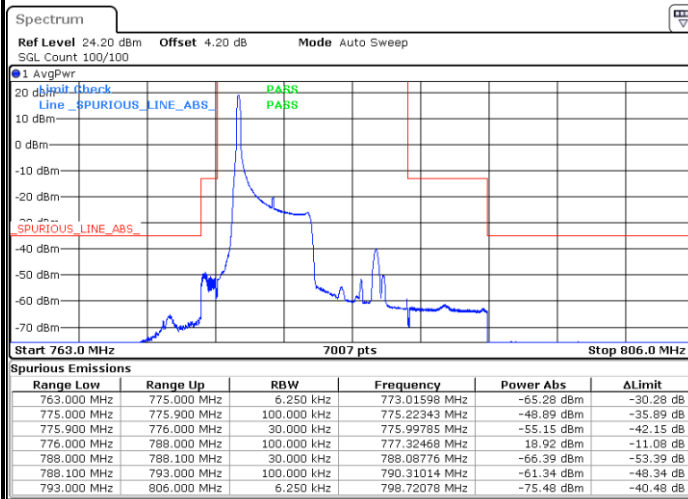
Highest Band Edge / Full RB



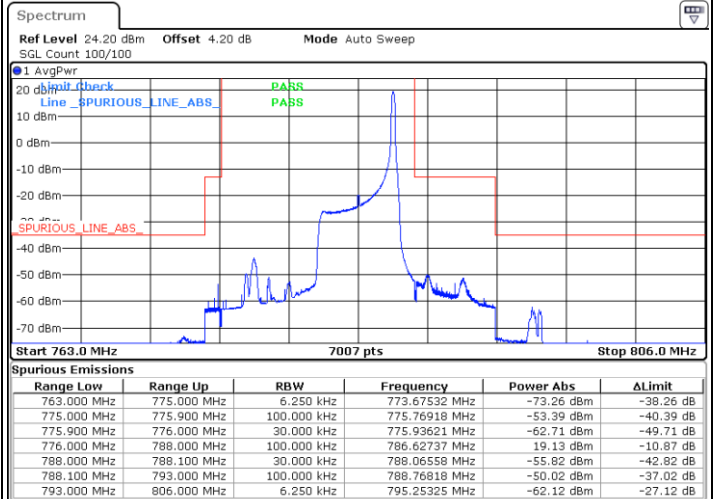


LTE Band 13 / 5MHz / 16QAM

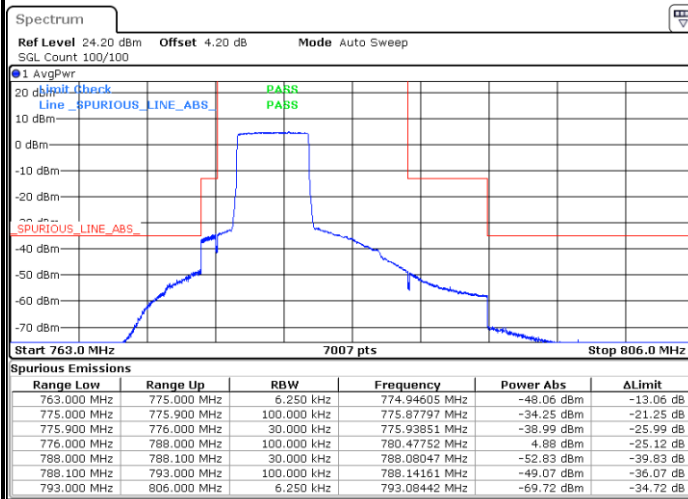
Lowest Band Edge / 1RB



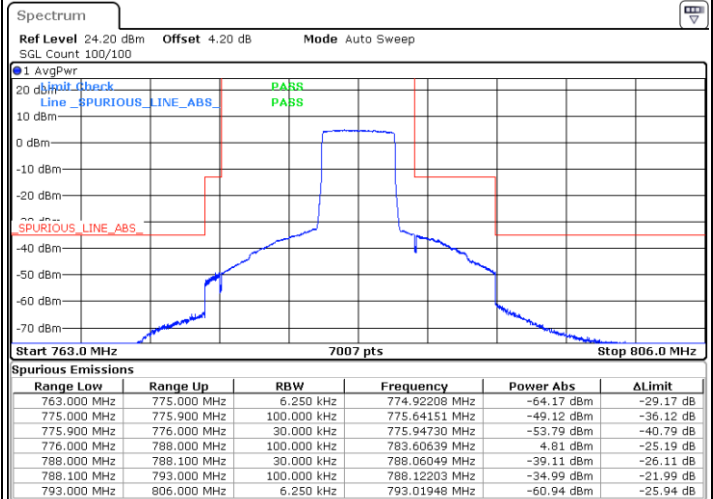
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB

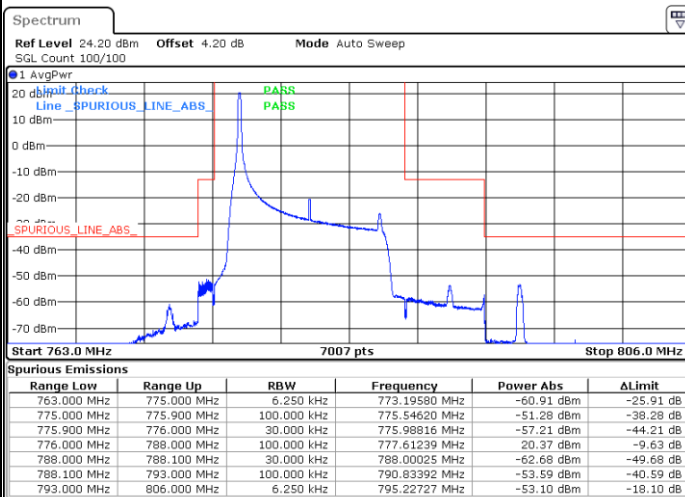


Highest Band Edge / Full RB



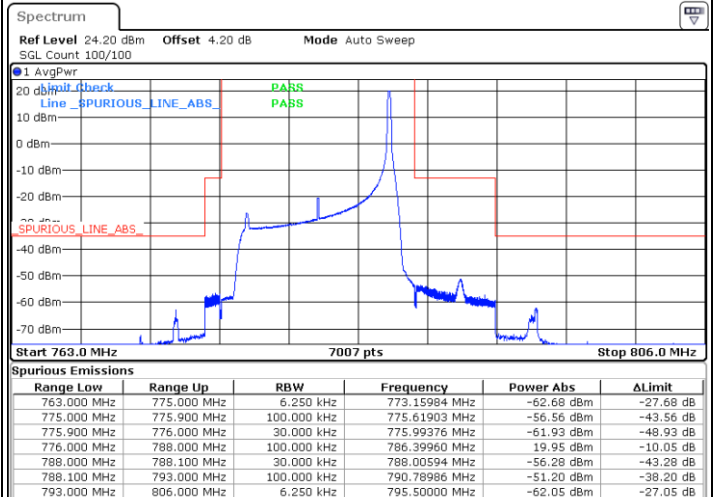
LTE Band 13 / 10MHz / QPSK

middle Band Edge / 1 RB



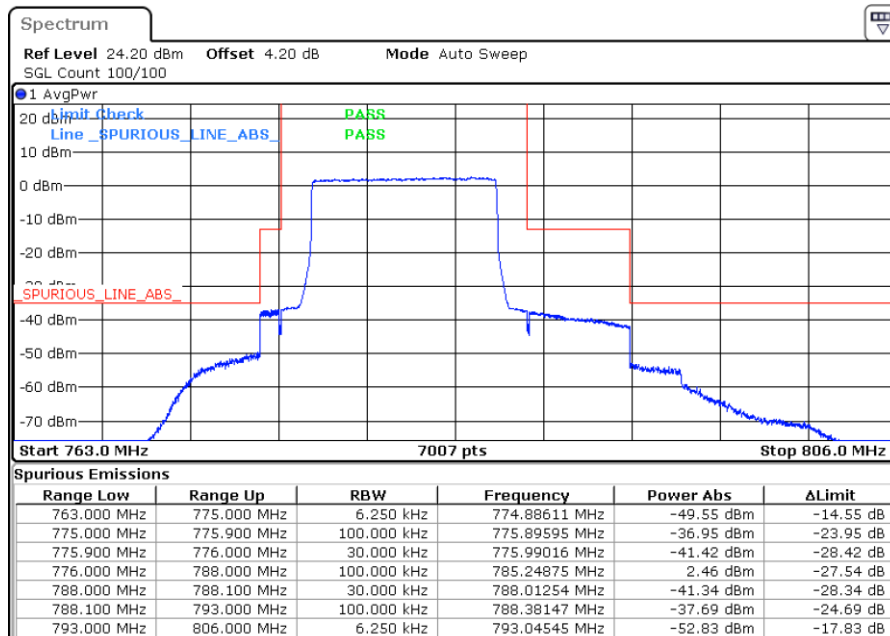
Date: 4.APR.2023 13:59:50

middle Band Edge / 1 RB



Date: 4.APR.2023 14:09:01

Middle Band Edge / Full RB

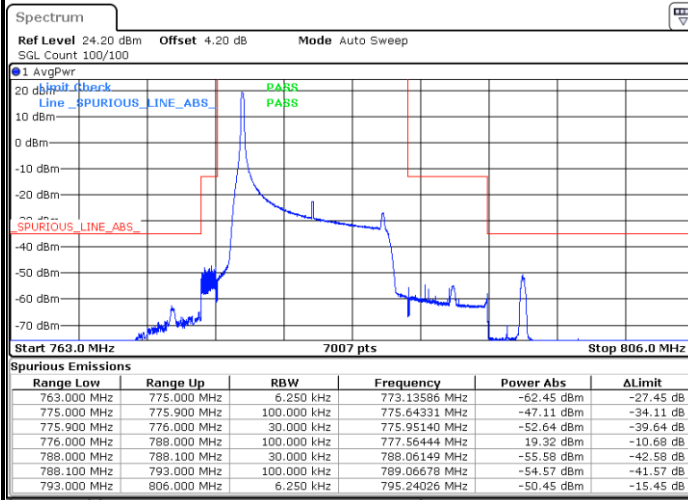


Date: 4.APR.2023 14:10:52

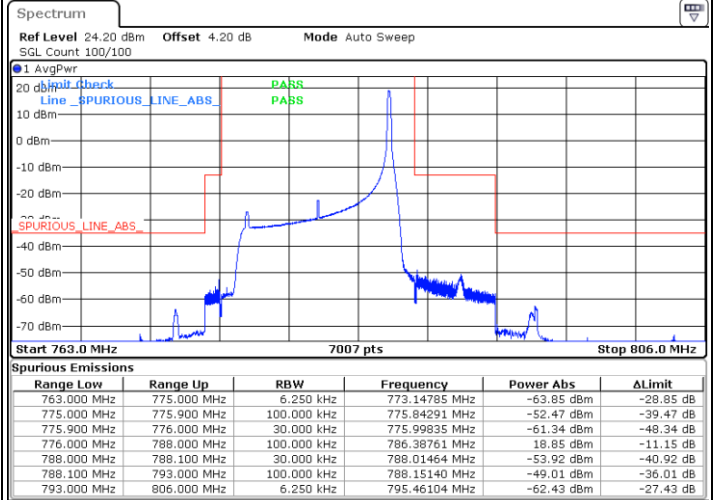


LTE Band 13 / 10MHz / 16QAM

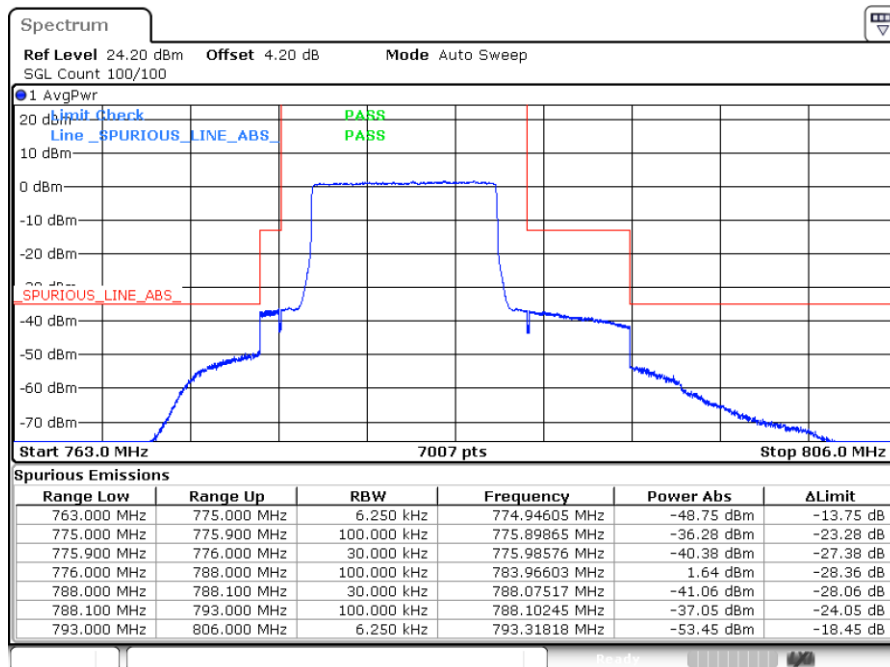
middle Band Edge / 1 RB



middle Band Edge / 1 RB



middle Band Edge / Full RB

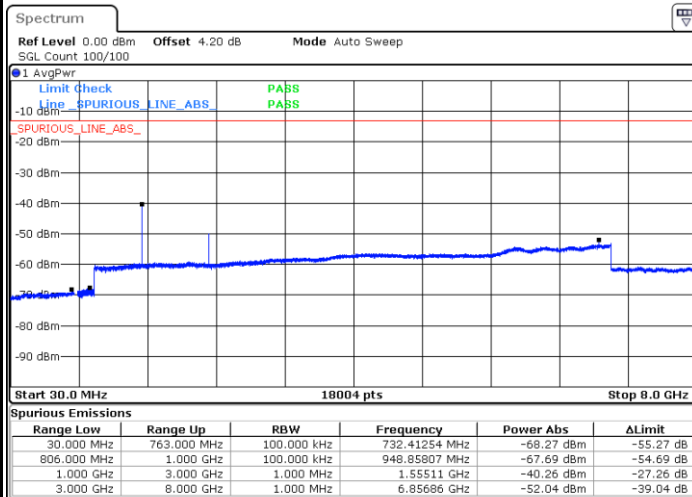




Conducted Spurious Emission

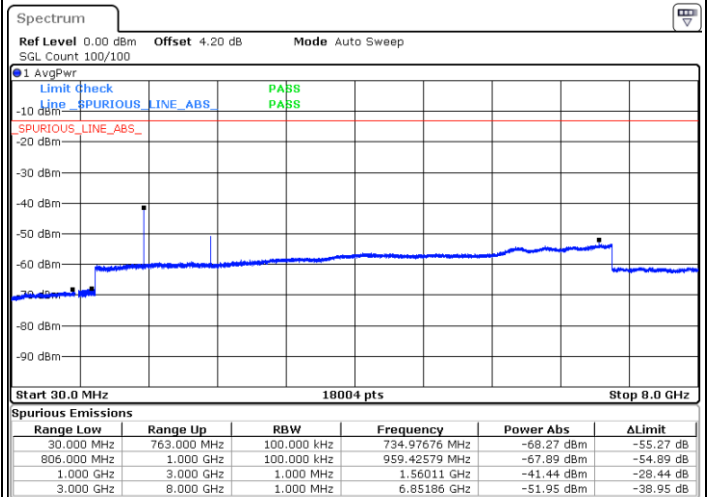
LTE Band 13 / 5MHz

Lowest Channel / QPSK



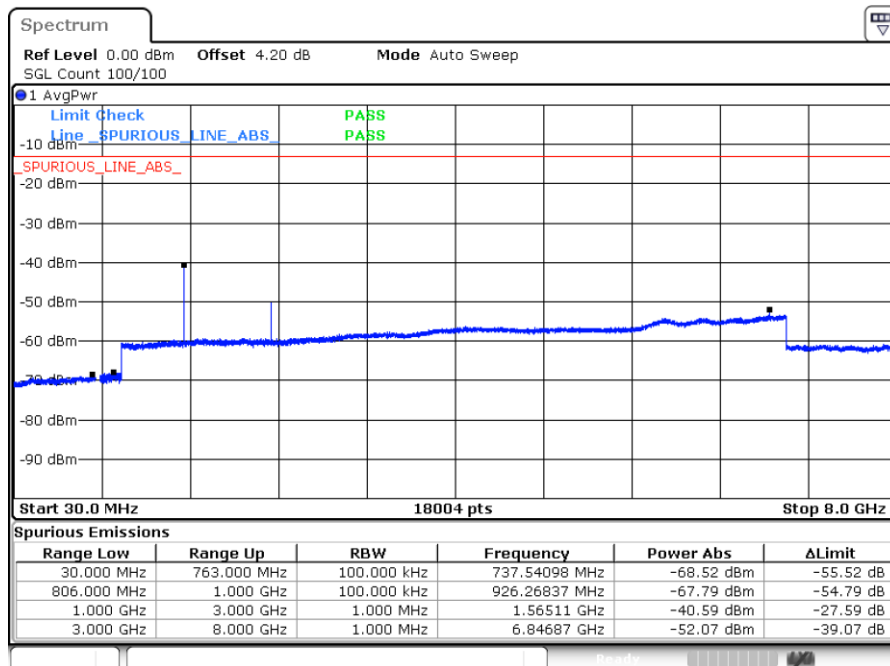
Date: 4.APR.2023 13:29:36

Middle Channel / QPSK



Date: 4.APR.2023 13:42:48

Highest Channel / QPSK

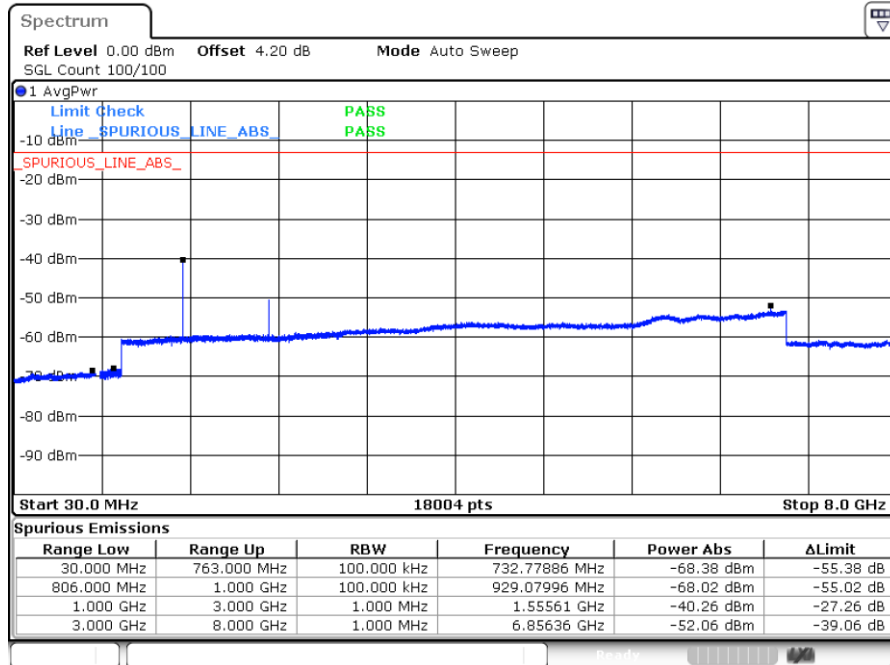


Date: 4.APR.2023 13:44:50



LTE Band 13 / 10MHz

Middle Channel / QPSK



Date: 4.APR.2023 13:58:00

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	0.0025	PASS
40	Normal Voltage	0.0029	
30	Normal Voltage	0.0014	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0016	
0	Normal Voltage	0.0008	
-10	Normal Voltage	0.0036	
-20	Normal Voltage	0.0032	
-30	Normal Voltage	0.0051	
20	Maximum Voltage	0.0044	
20	Normal Voltage	0.0039	
20	Battery End Point	0.0026	

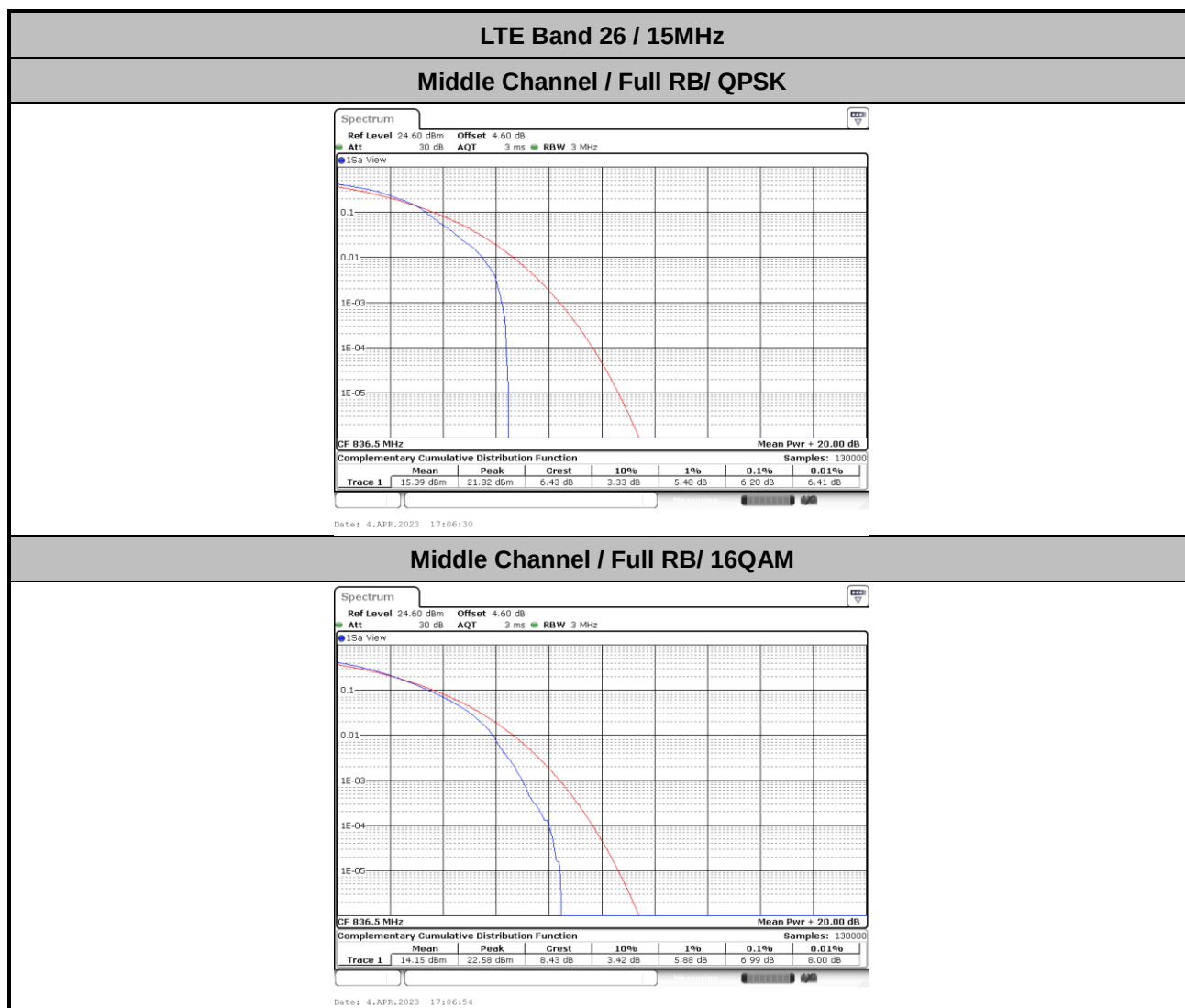
Note:

1. Normal Voltage =3.91 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.5 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

LTE Band 26

Peak-to-Average Ratio

Mode	LTE Band 26 / 15MHz			
Mod.	QPSK	16QAM	-	Limit: 13dB
RB Size	Full RB	Full RB	-	Result
Middle CH	6.20	6.99	-	PASS



**26dB Bandwidth**

Mode	LTE Band 26 : 26dB BW(MHz)	
BW	15MHz	
Mod.	QPSK	16QAM
Middle CH	14.75	14.36
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.85	9.87
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	4.89	4.91
BW	3MHz	
Mod.	QPSK	16QAM
Middle CH	3.07	3.07
BW	1.4MHz	
Mod.	QPSK	16QAM
Middle CH	1.24	1.24