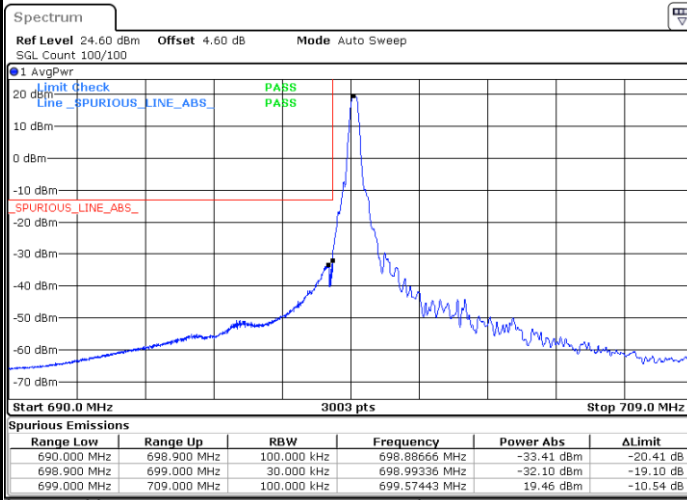




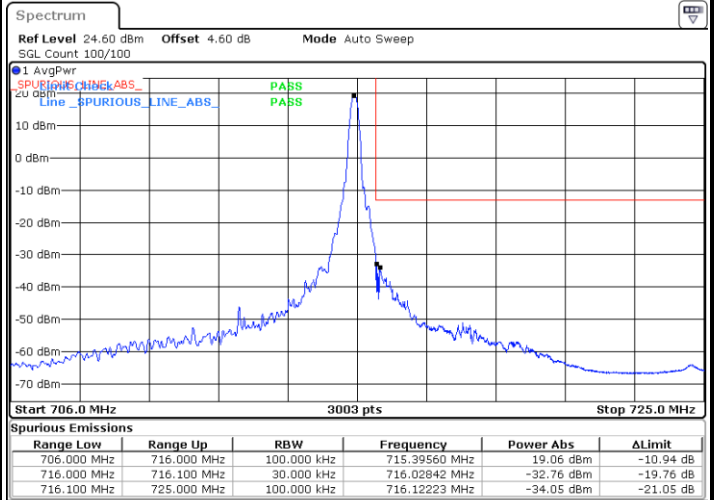
LTE Band 12 / 10MHz / QPSK

Lowest Band Edge / 1 RB



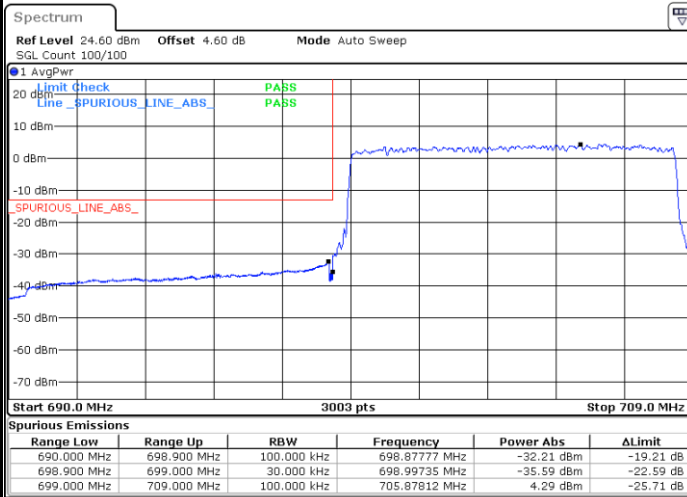
Date: 2.JAN.2023 01:11:03

Highest Band Edge / 1 RB



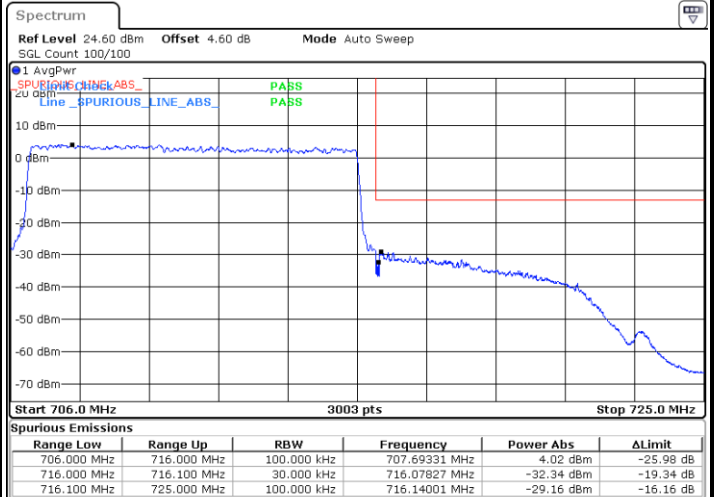
Date: 2.JAN.2023 01:26:36

Lowest Band Edge / Full RB



Date: 2.JAN.2023 01:22:26

Highest Band Edge / Full RB

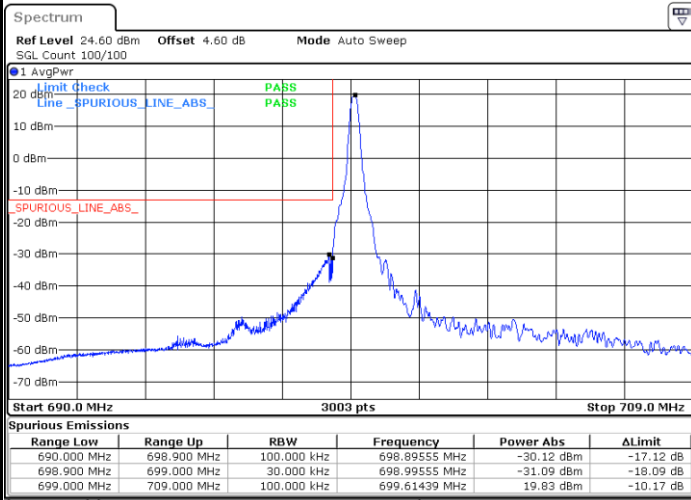


Date: 2.JAN.2023 01:37:13



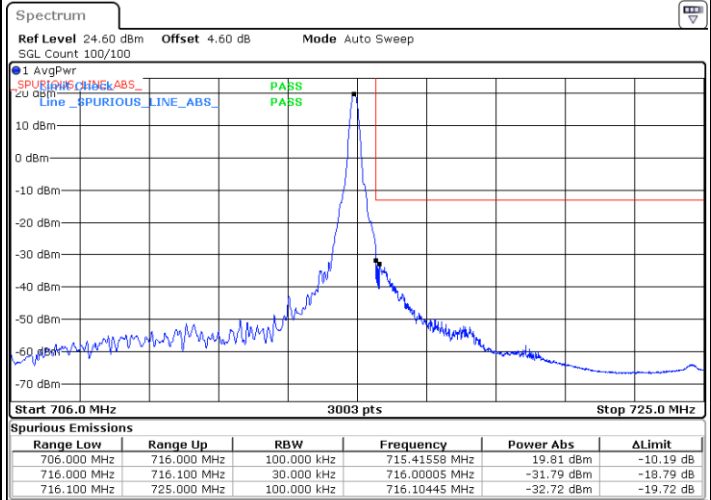
LTE Band 12 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



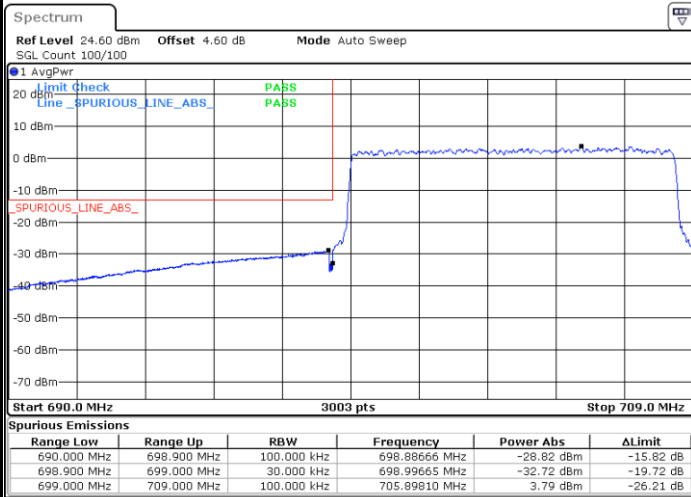
Date: 2.JAN.2023 01:12:33

Highest Band Edge / 1 RB



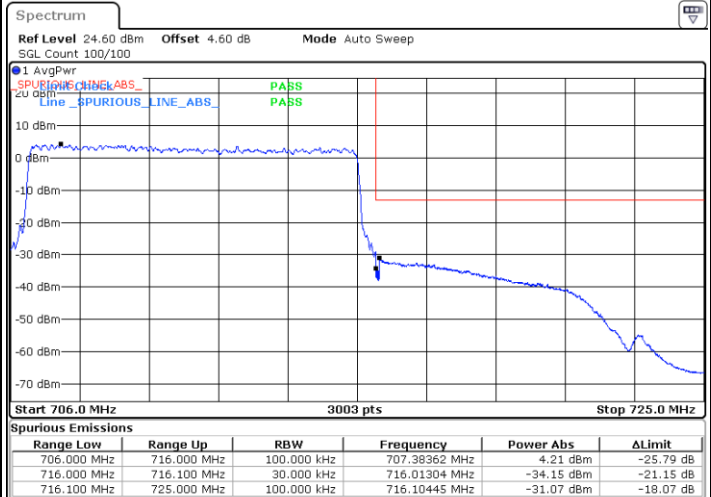
Date: 2.JAN.2023 01:28:06

Lowest Band Edge / Full RB



Date: 2.JAN.2023 01:20:56

Highest Band Edge / Full RB

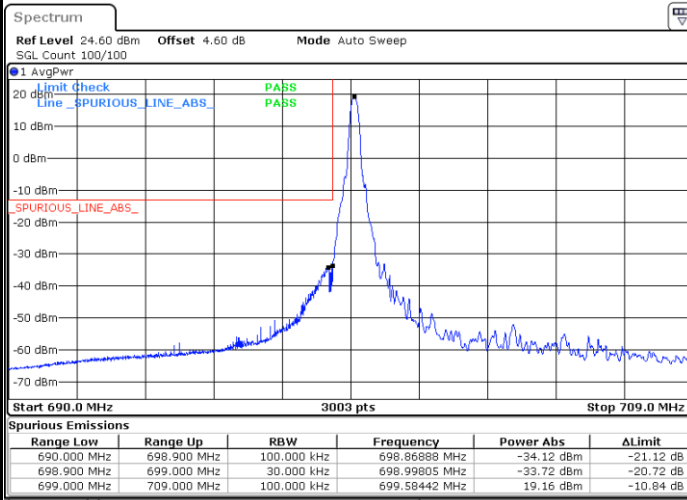


Date: 2.JAN.2023 01:35:43



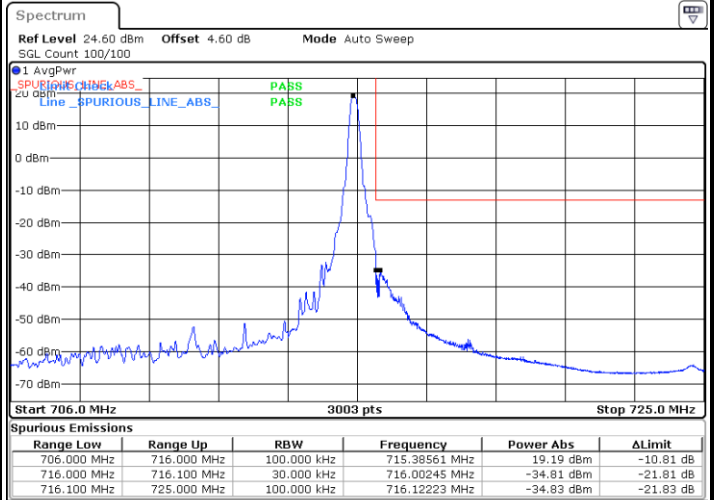
LTE Band 12 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



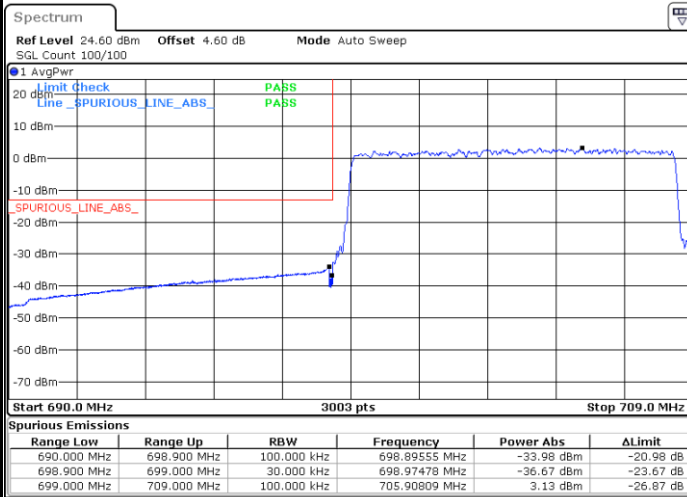
Date: 2.JAN.2023 01:14:03

Highest Band Edge / 1 RB



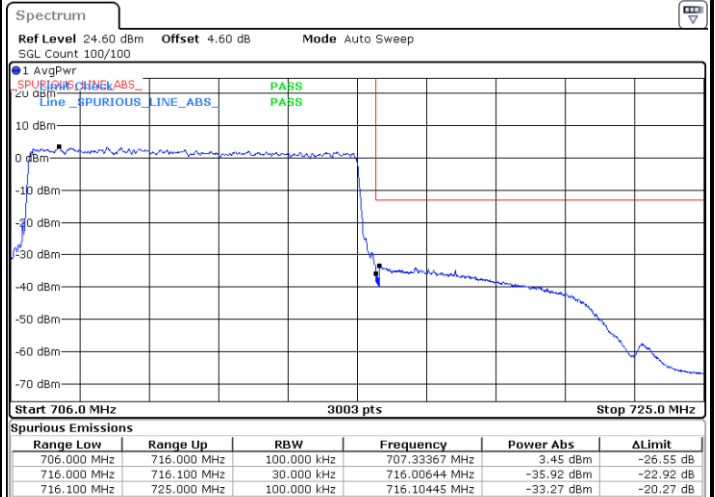
Date: 2.JAN.2023 01:29:37

Lowest Band Edge / Full RB



Date: 2.JAN.2023 01:19:26

Highest Band Edge / Full RB

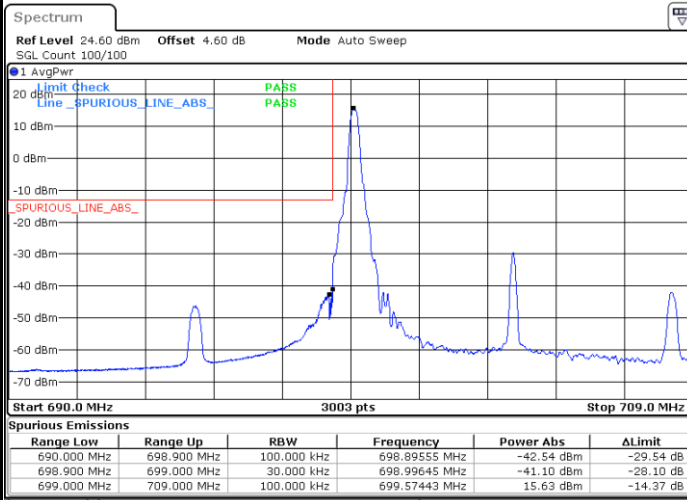


Date: 2.JAN.2023 01:34:13



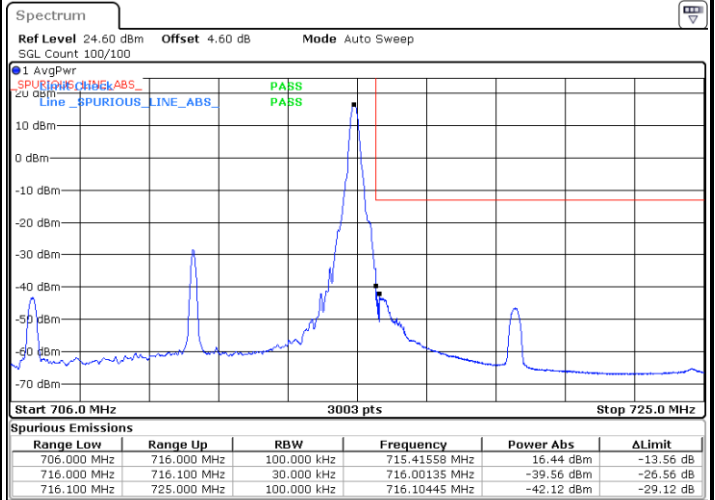
LTE Band 12 / 10MHz / 256QAM

Lowest Band Edge / 1 RB



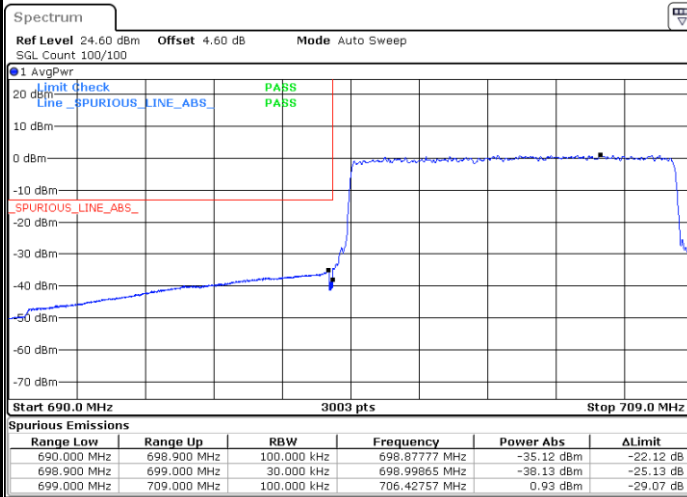
Date: 2.JAN.2023 01:15:33

Highest Band Edge / 1 RB



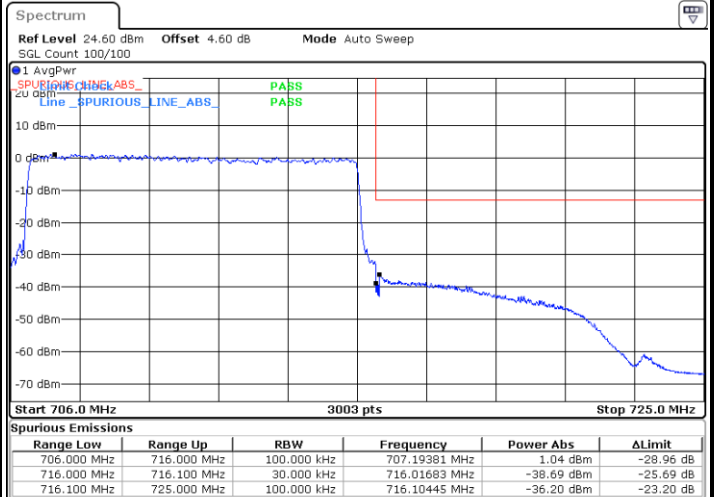
Date: 2.JAN.2023 01:31:07

Lowest Band Edge / Full RB



Date: 2.JAN.2023 01:17:53

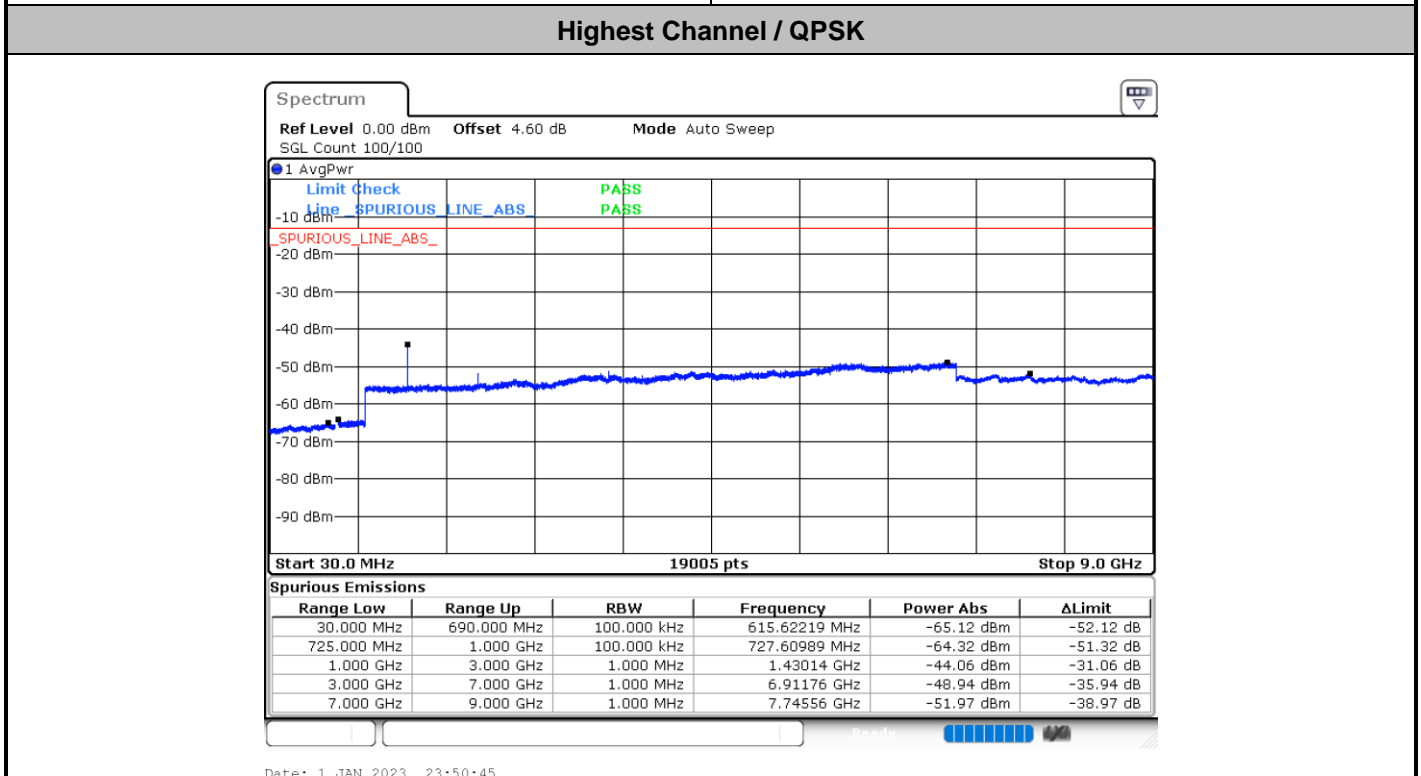
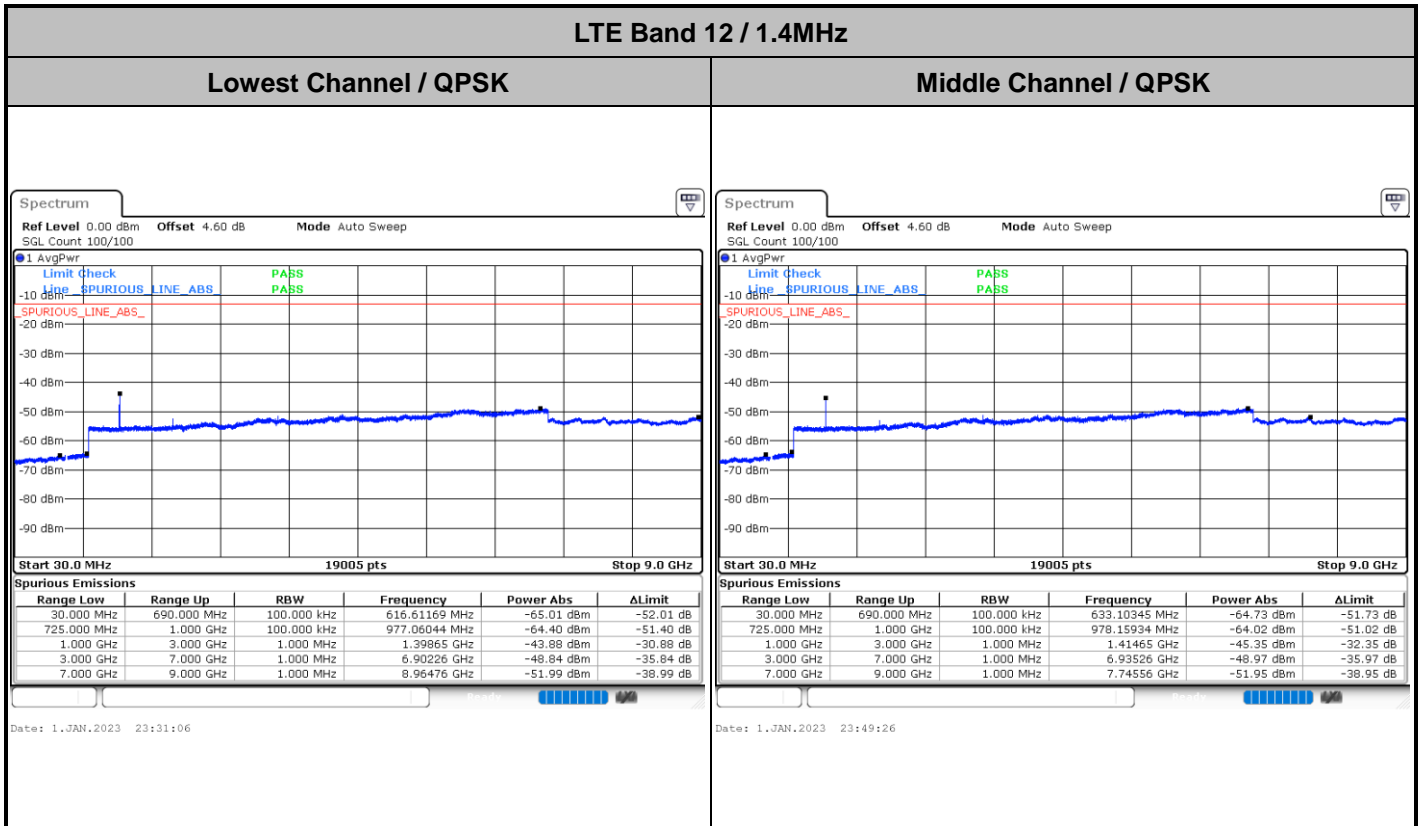
Highest Band Edge / Full RB



Date: 2.JAN.2023 01:32:40



Conducted Spurious Emission

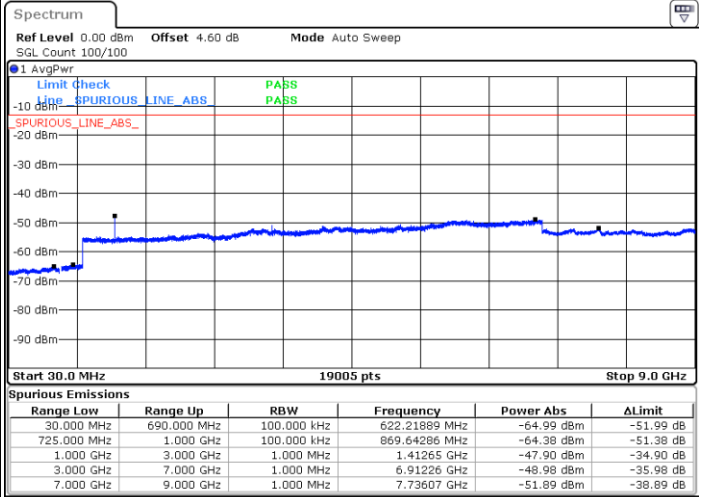
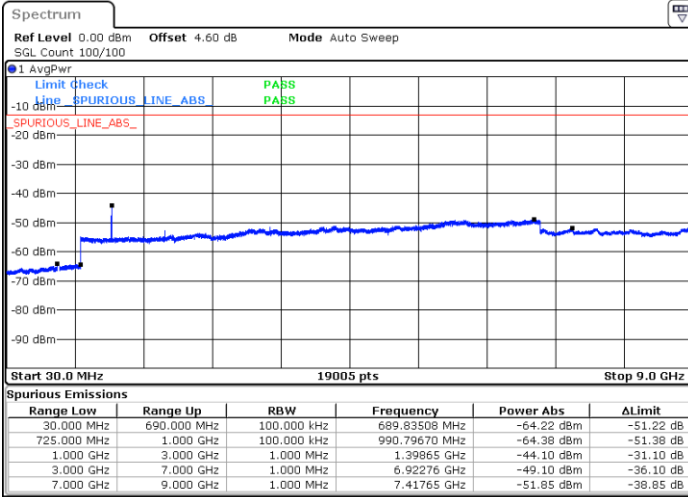




LTE Band 12 / 3MHz

Lowest Channel / QPSK

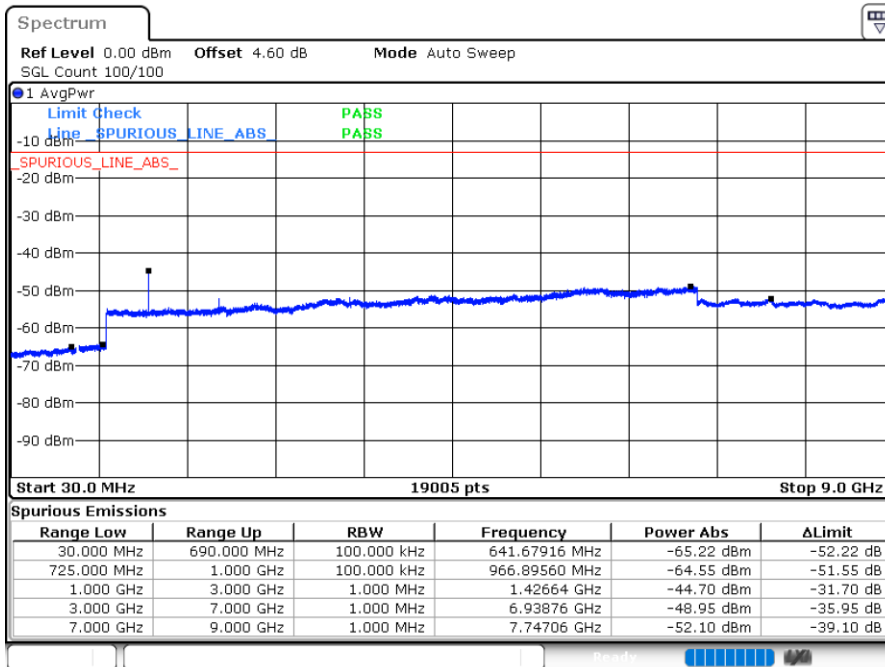
Middle Channel / QPSK



Date: 2. JAN. 2023 00:04:11

Date: 2. JAN. 2023 00:24:07

Highest Channel / QPSK



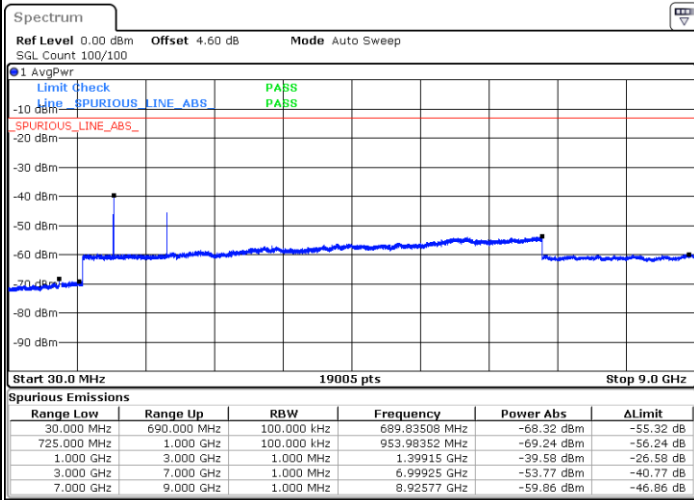
Date: 2. JAN. 2023 00:25:27



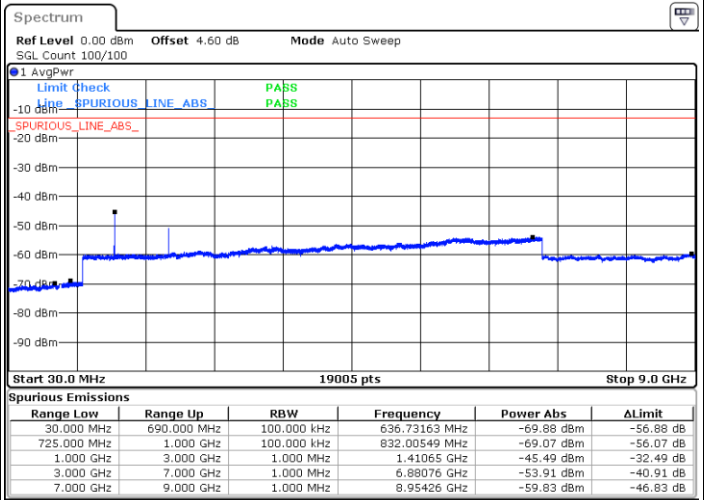
LTE Band 12 / 5MHz

Lowest Channel / QPSK

Middle Channel / QPSK

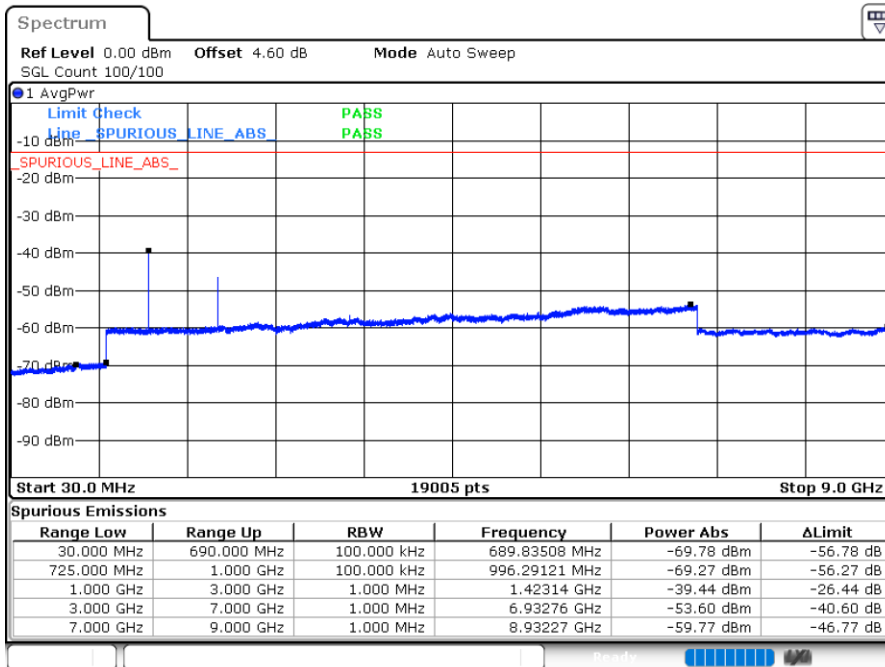


Date: 2. JAN. 2023 00:38:53



Date: 2. JAN. 2023 00:54:46

Highest Channel / QPSK



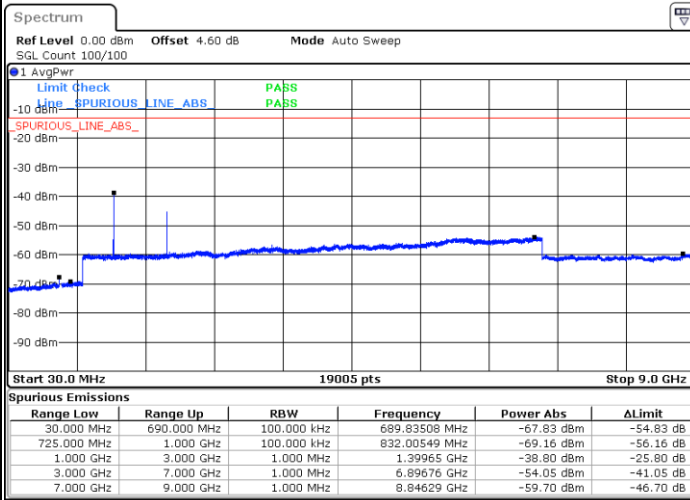
Date: 2. JAN. 2023 00:56:06



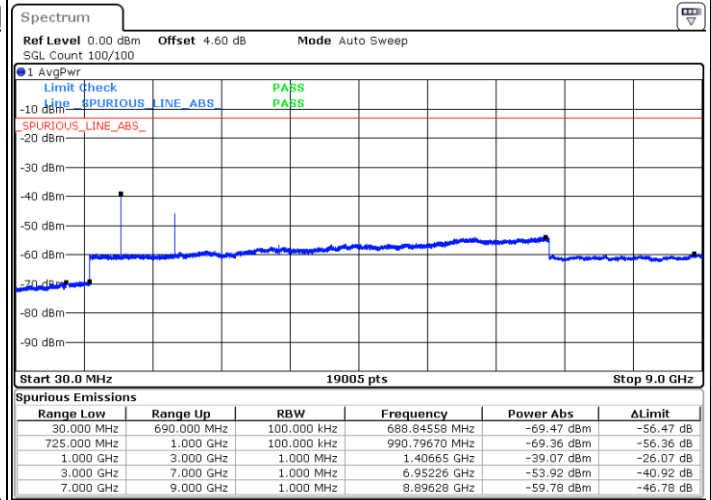
LTE Band 12 / 10MHz

Lowest Channel / QPSK

Middle Channel / QPSK

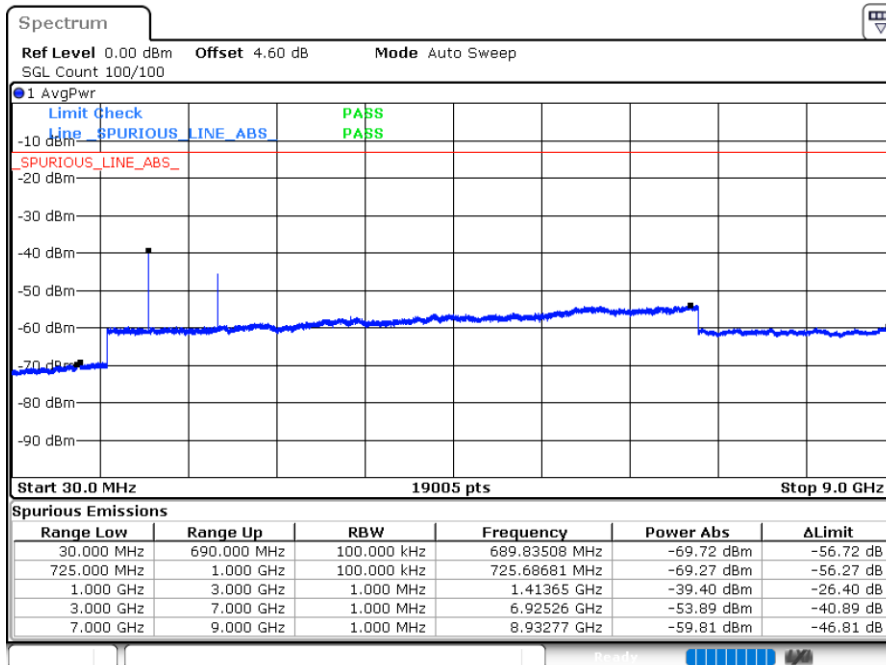


Date: 2. JAN. 2023 01:09:33



Date: 2. JAN. 2023 01:23:46

Highest Channel / QPSK



Date: 2. JAN. 2023 01:25:06



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	0.0027	PASS
40	Normal Voltage	0.0019	
30	Normal Voltage	0.0013	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0009	
0	Normal Voltage	0.0015	
-10	Normal Voltage	0.0023	
-20	Normal Voltage	0.0024	
-30	Normal Voltage	0.0028	
20	Maximum Voltage	0.0016	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0017	

Note:

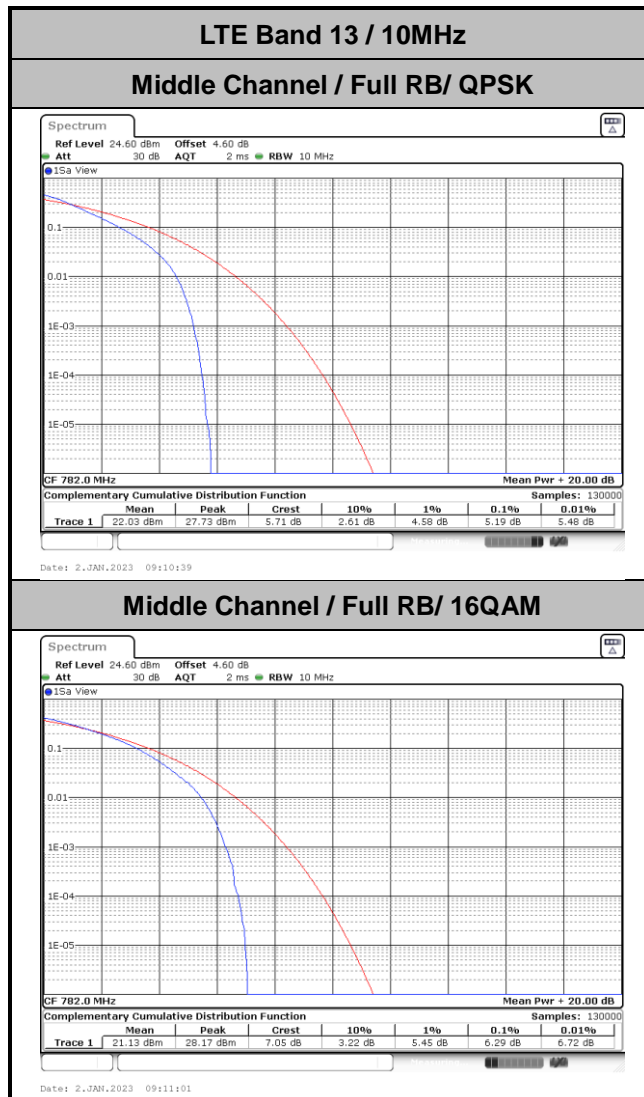
1. Normal Voltage =3.91 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.5 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

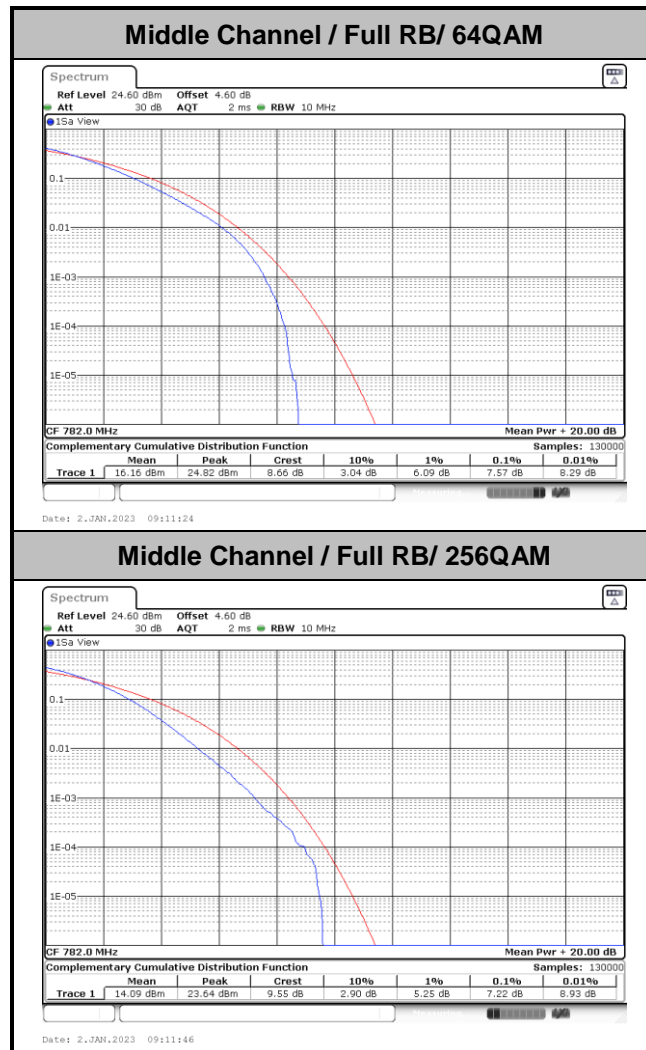


LTE Band 13

Peak-to-Average Ratio

Mode	LTE Band 13 / 10MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB				Result
Middle CH	5.19	6.29	7.57	7.22	PASS

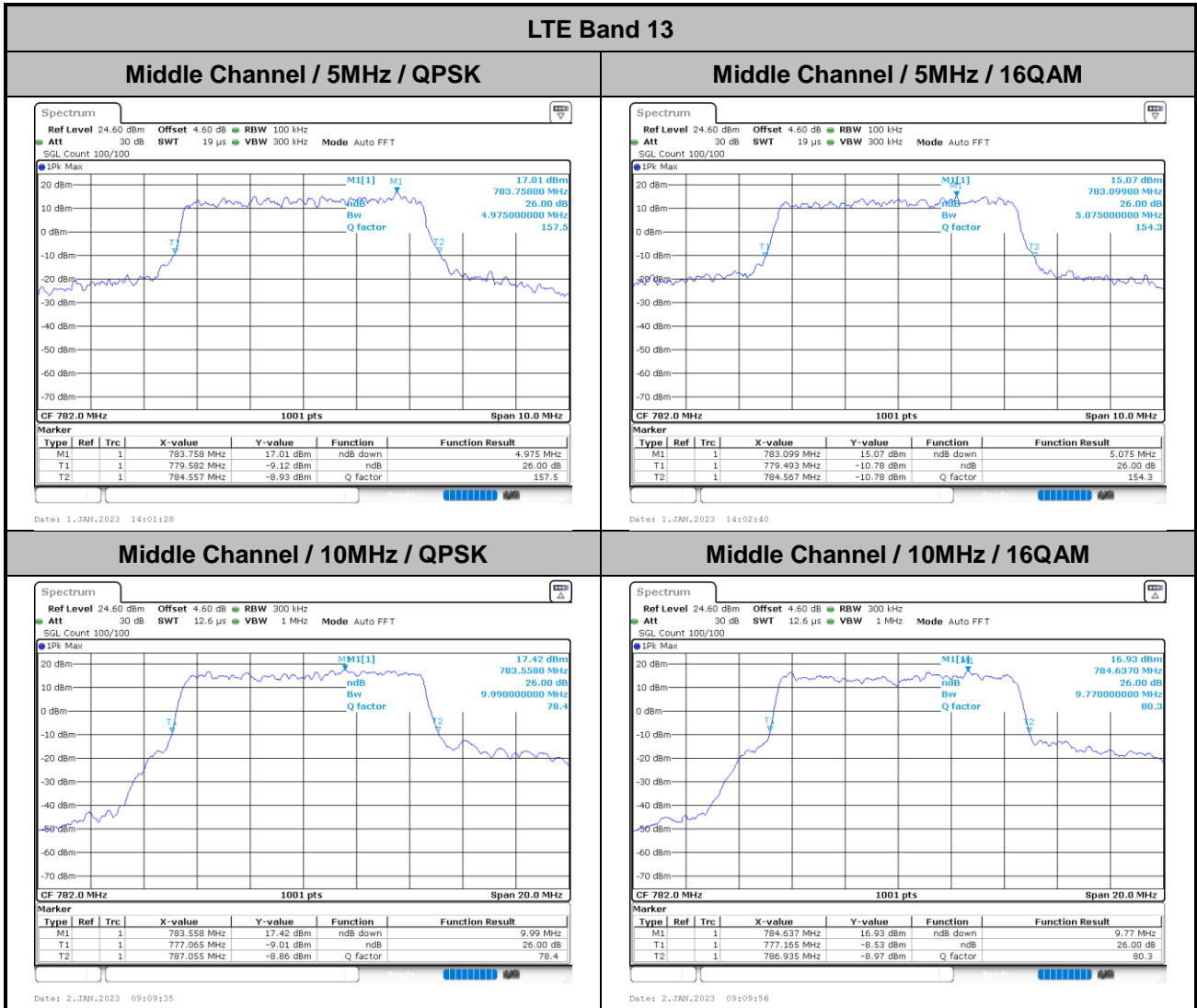






26dB Bandwidth

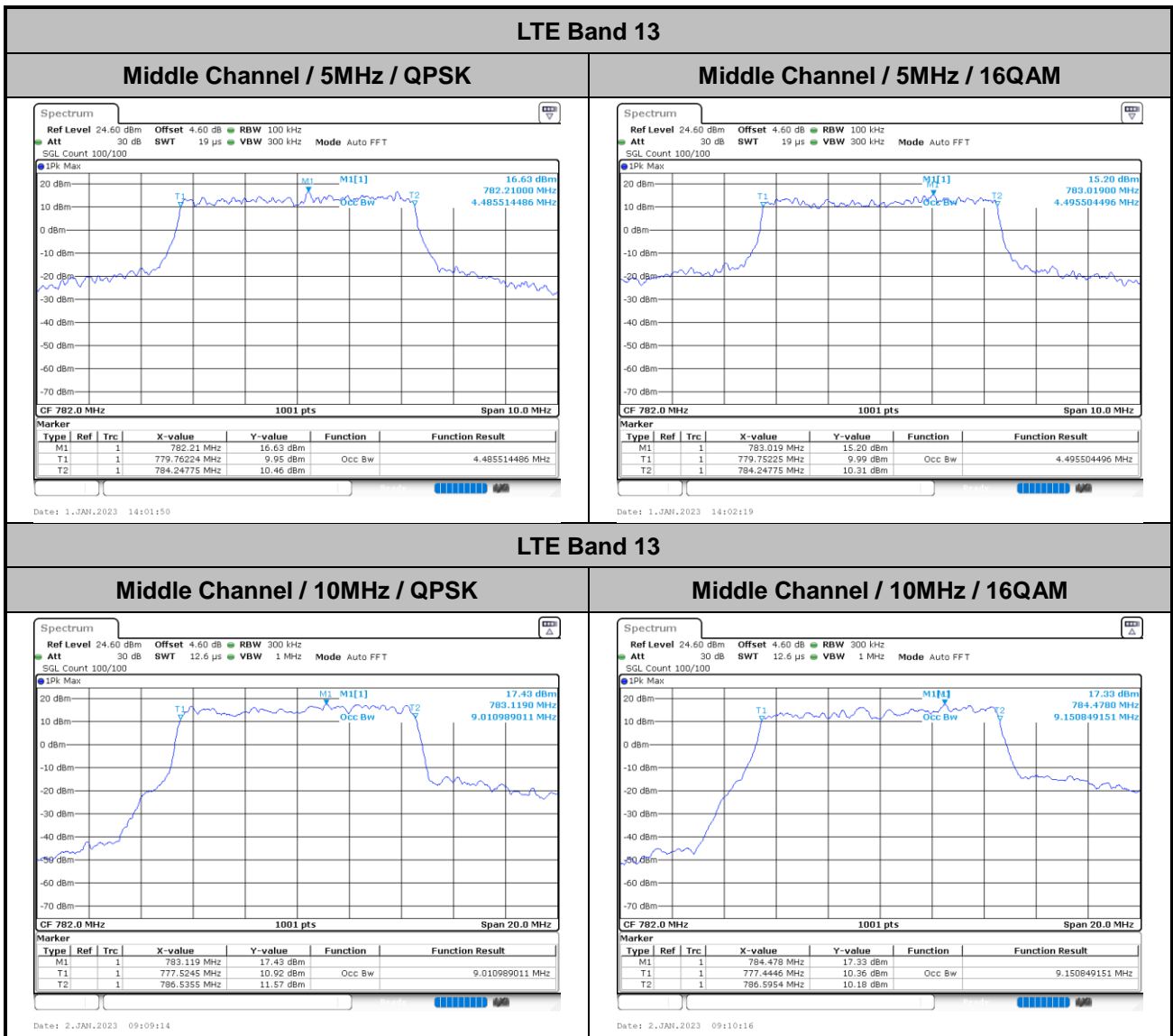
Mode		LTE Band 13 : 26dB BW(MHz)	
BW		5MHz	
Mod.	QPSK		16QAM
Middle CH	4.98		5.08
BW		10MHz	
Mod.	QPSK		16QAM
Middle CH	9.99		9.77





Occupied Bandwidth

Mode	LTE Band 13 : 99%OBW(MHz)	
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	4.49	4.50
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.01	9.15



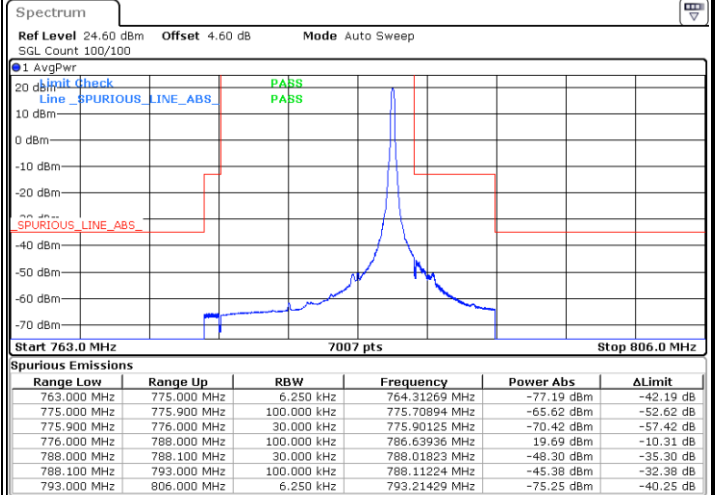
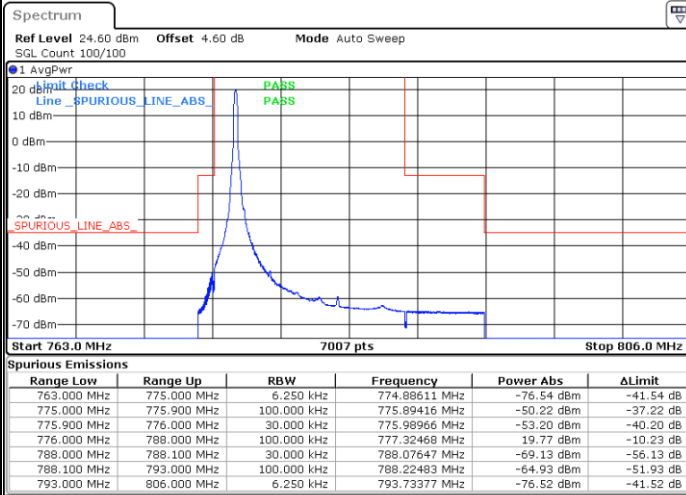


Conducted Band Edge

LTE Band 13 / 5MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

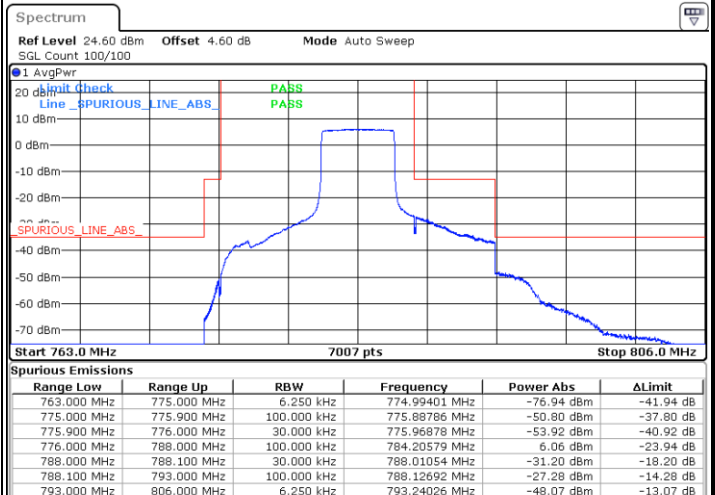
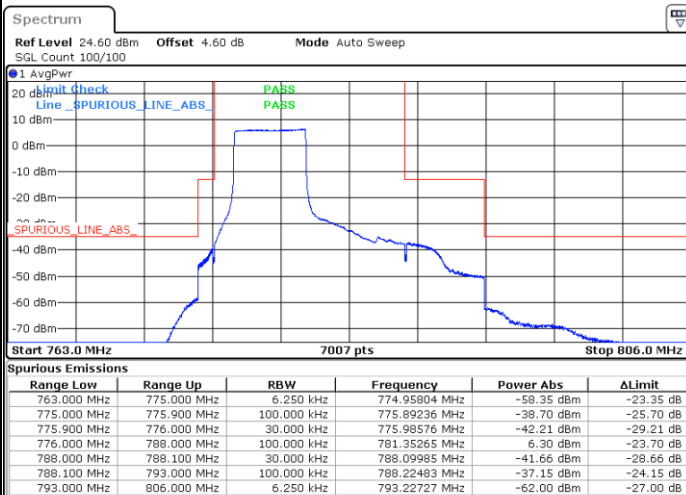


Date: 1.JAN.2023 13:26:57

Date: 1.JAN.2023 13:44:04

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



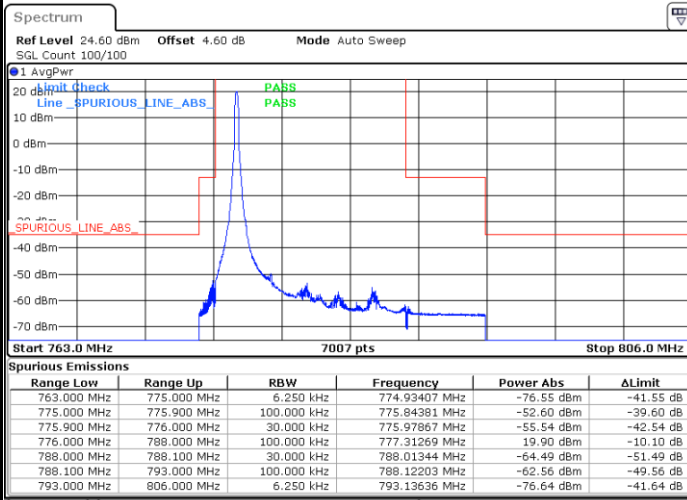
Date: 1.JAN.2023 13:34:22

Date: 1.JAN.2023 13:51:26



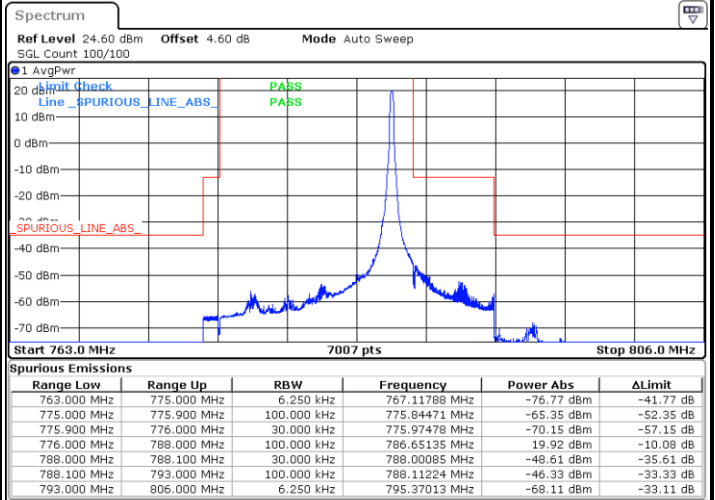
LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1RB



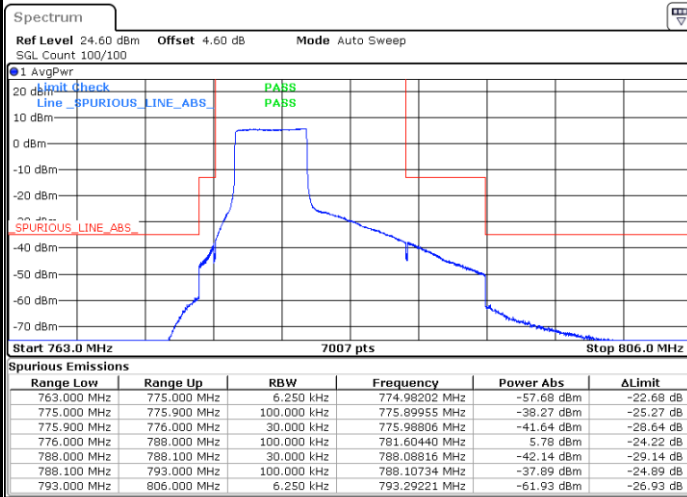
Date: 1.JAN.2023 13:28:50

Highest Band Edge / 1 RB



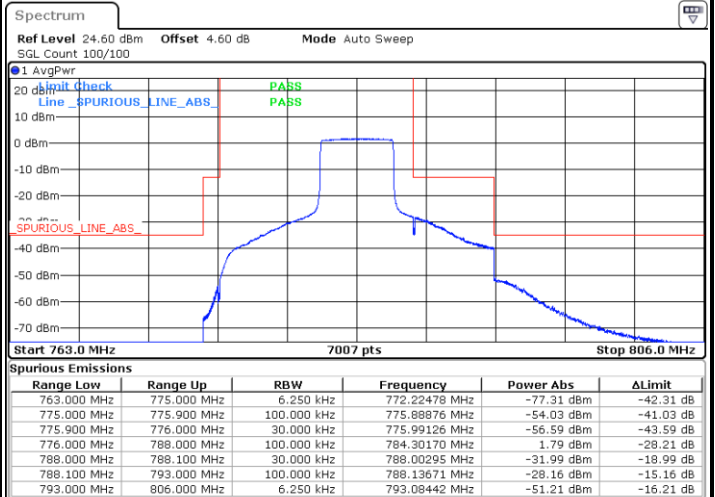
Date: 1.JAN.2023 13:45:54

Lowest Band Edge / Full RB



Date: 1.JAN.2023 13:36:12

Highest Band Edge / Full RB



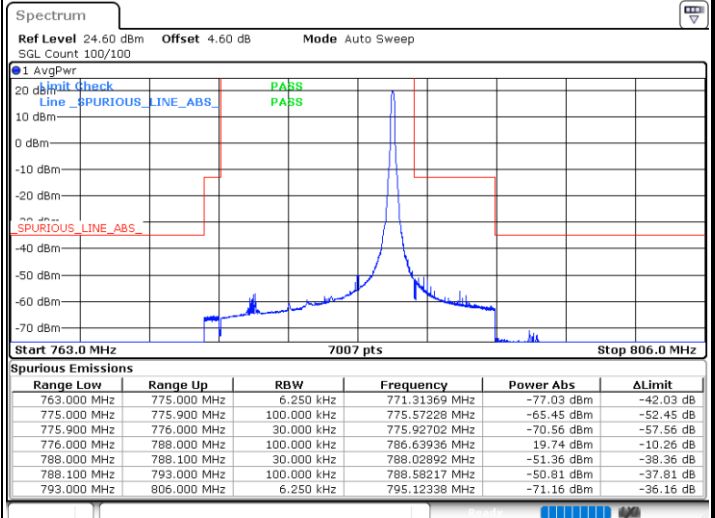
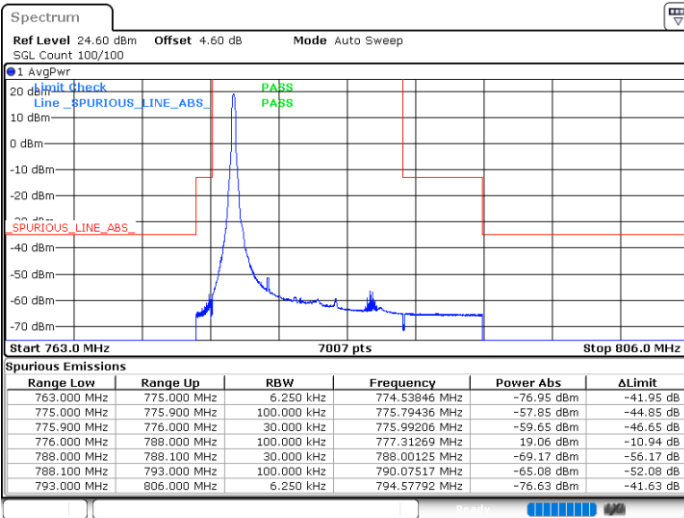
Date: 1.JAN.2023 13:53:17



LTE Band 13 / 5MHz / 64QAM

Lowest Band Edge / 1RB

Highest Band Edge / 1 RB

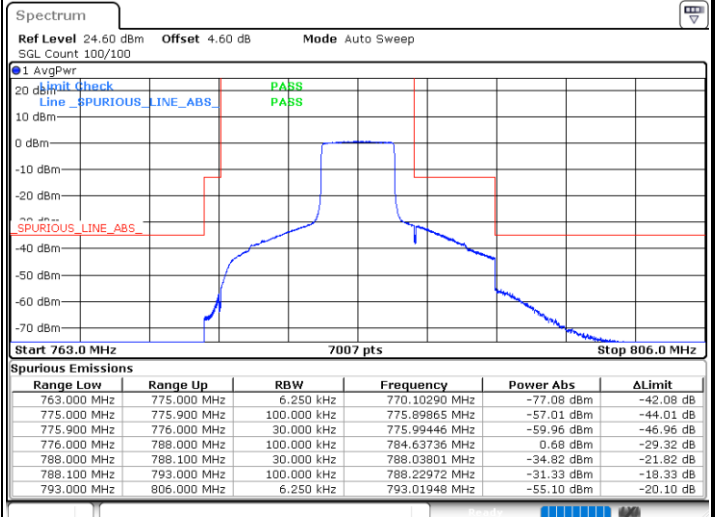
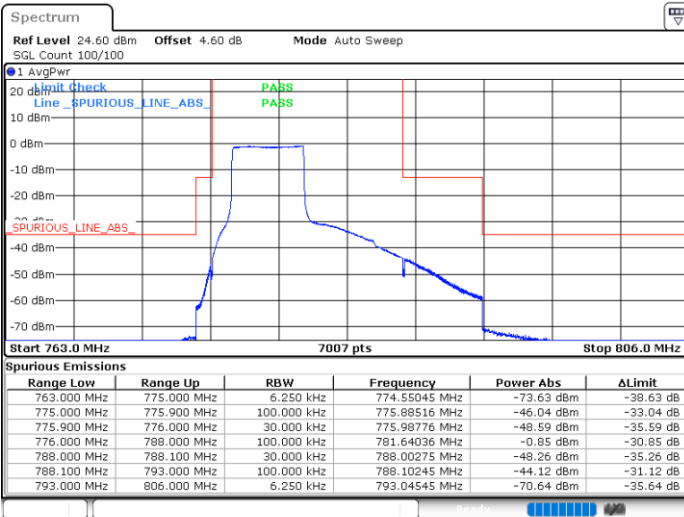


Date: 1.JAN.2023 13:30:40

Date: 1.JAN.2023 13:47:43

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



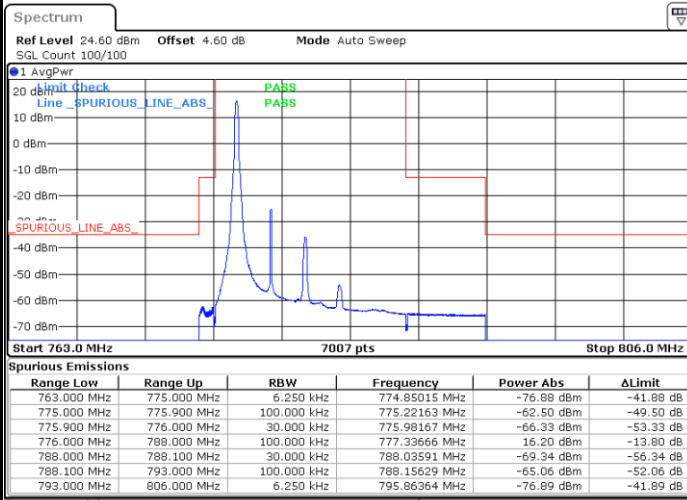
Date: 1.JAN.2023 13:38:02

Date: 1.JAN.2023 13:55:07



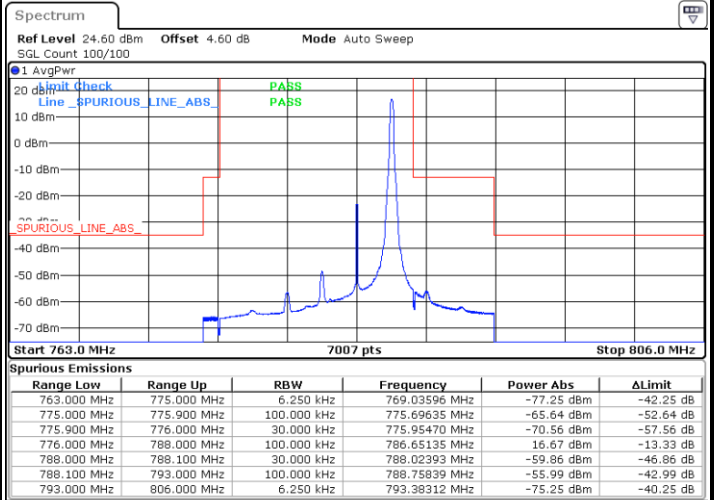
LTE Band 13 / 5MHz / 256QAM

Lowest Band Edge / 1RB



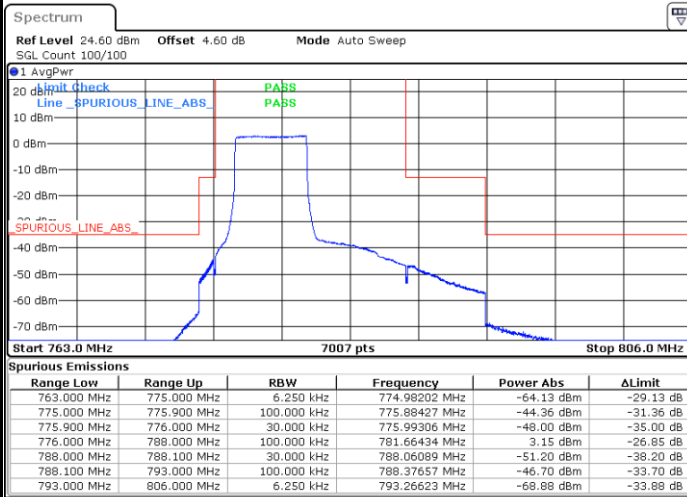
Date: 1.JAN.2023 13:32:29

Highest Band Edge / 1 RB



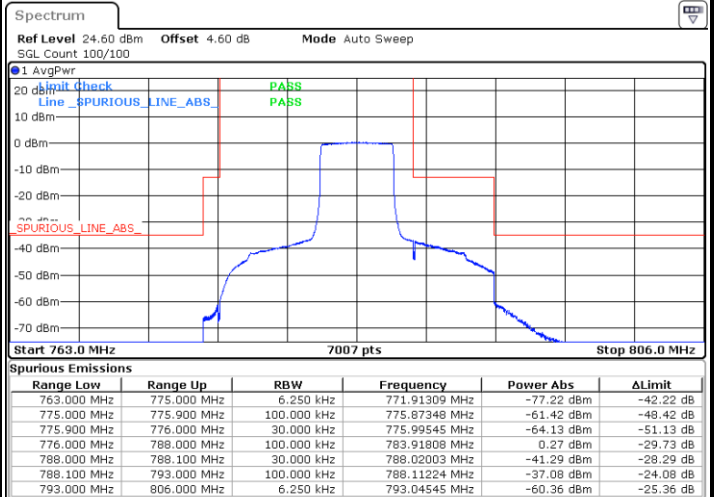
Date: 1.JAN.2023 13:49:33

Lowest Band Edge / Full RB



Date: 1.JAN.2023 13:39:51

Highest Band Edge / Full RB

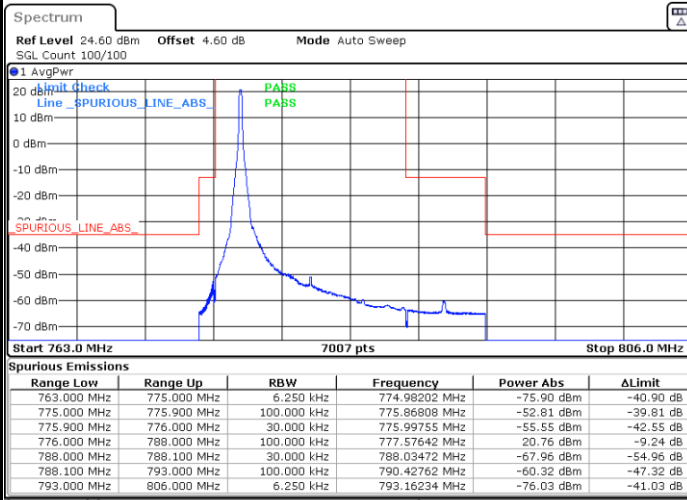


Date: 1.JAN.2023 14:00:07



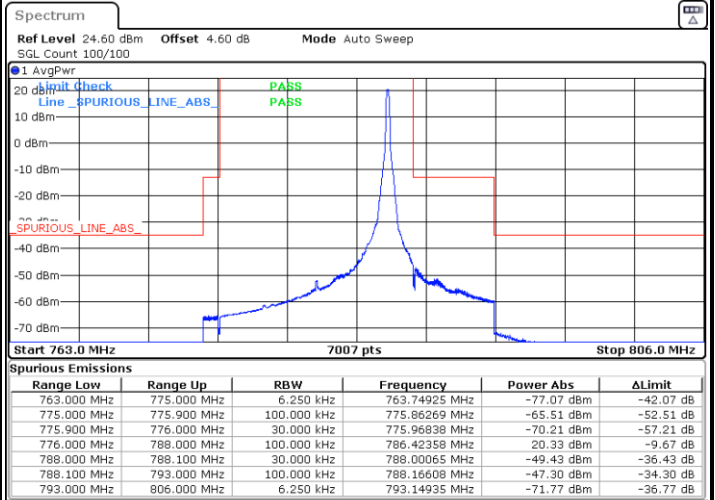
LTE Band 13 / 10MHz / QPSK

middle Band Edge / 1 RB



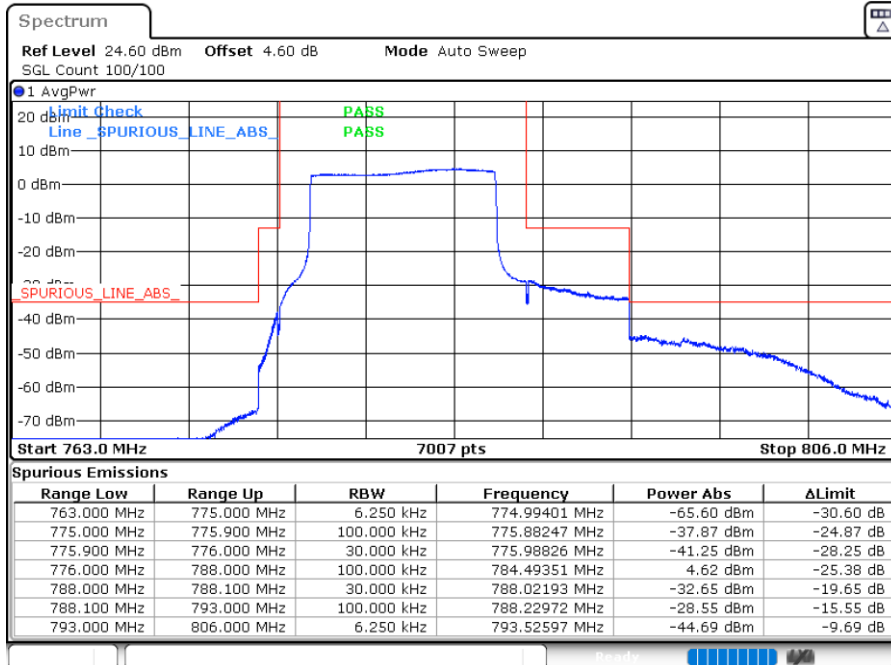
Date: 2, JAN, 2023 08:44:07

middle Band Edge / 1 RB



Date: 2, JAN, 2023 09:03:24

Middle Band Edge / Full RB

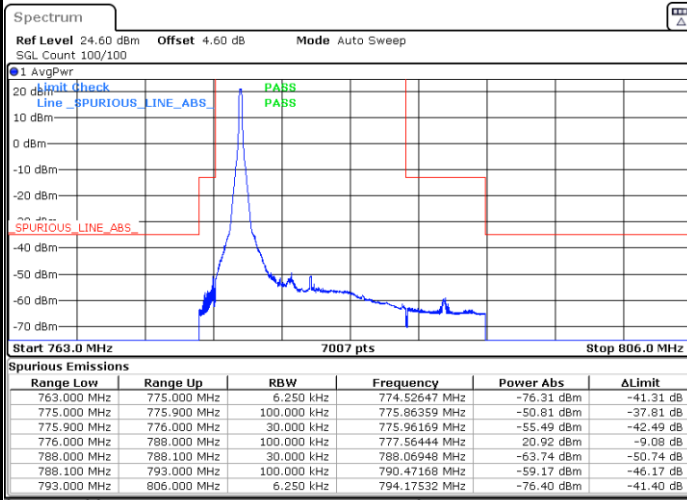


Date: 2, JAN, 2023 08:51:24



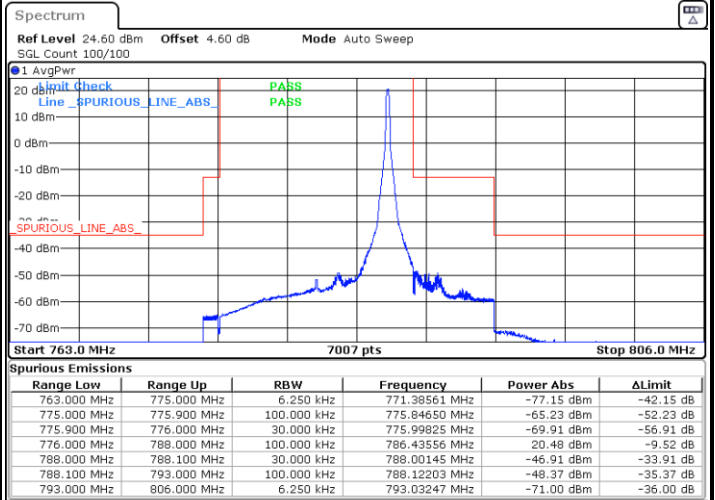
LTE Band 13 / 10MHz / 16QAM

middle Band Edge / 1 RB



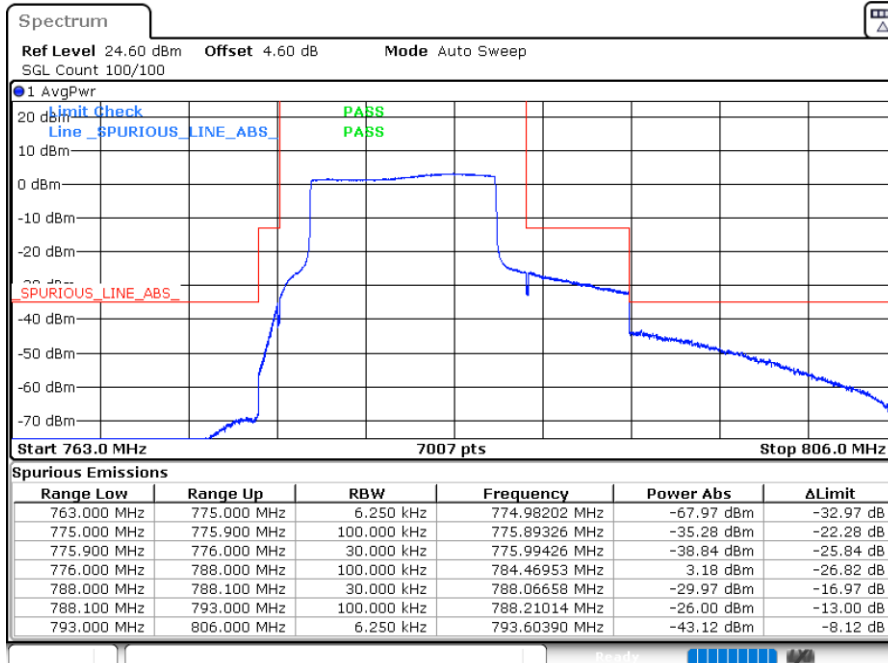
Date: 2, JAN, 2023 08:45:56

middle Band Edge / 1 RB



Date: 2, JAN, 2023 09:05:14

middle Band Edge / Full RB

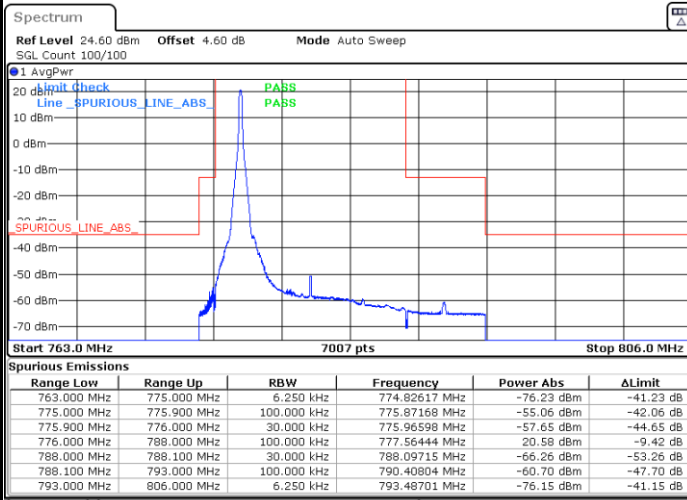


Date: 2, JAN, 2023 08:53:14



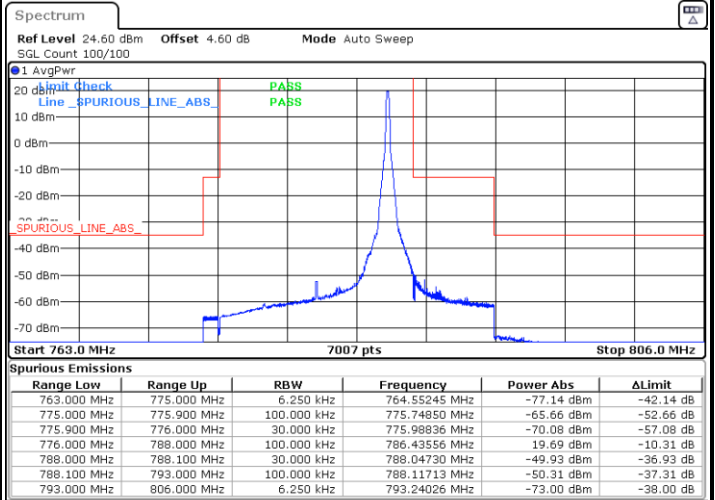
LTE Band 13 / 10MHz / 64QAM

middle Band Edge / 1 RB



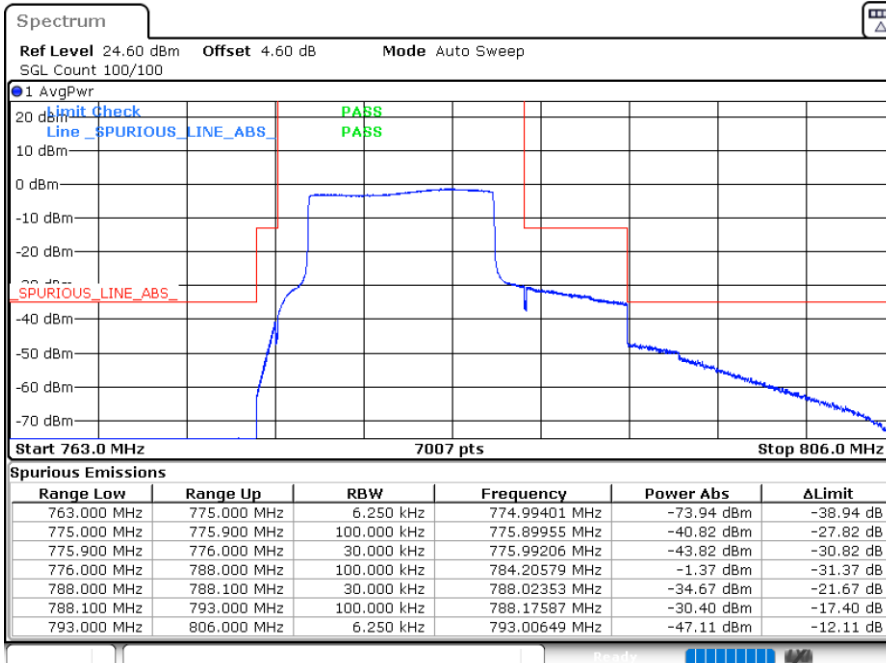
Date: 2, JAN, 2023 08:47:45

middle Band Edge / 1 RB



Date: 2, JAN, 2023 09:07:03

middle Band Edge / Full RB



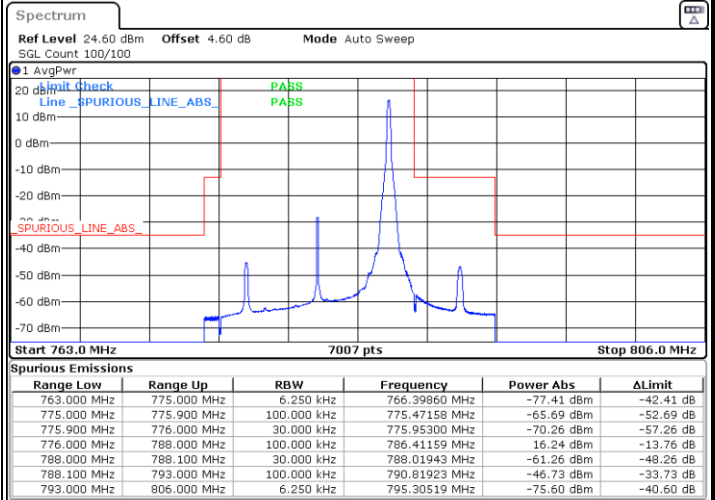
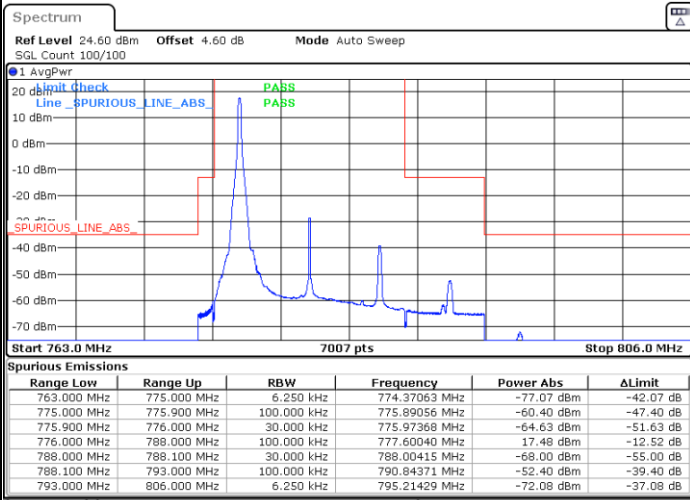
Date: 2, JAN, 2023 08:55:03



LTE Band 13 / 10MHz / 256QAM

middle Band Edge / 1 RB

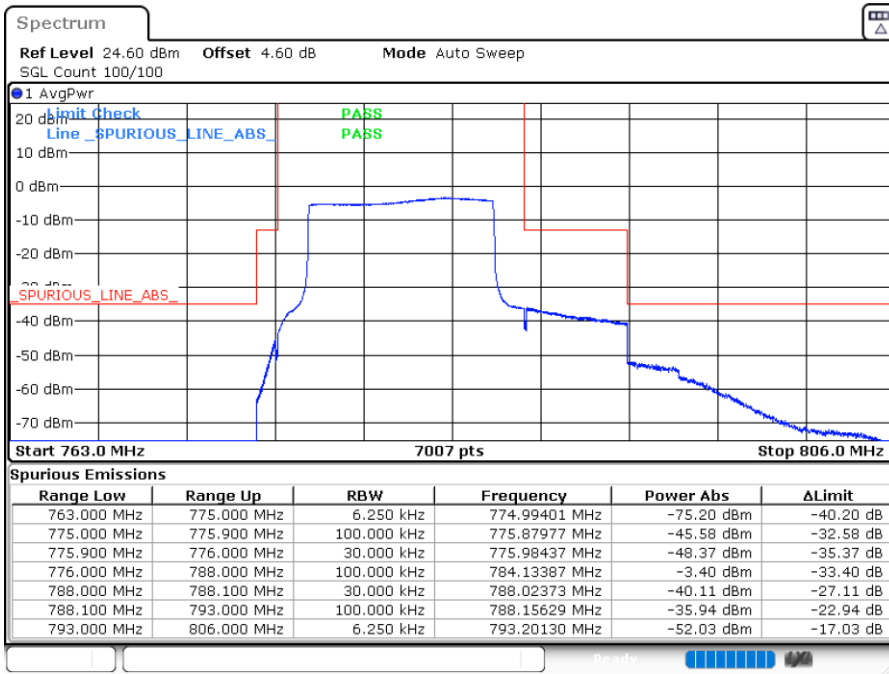
middle Band Edge / 1 RB



Date: 2, JAN, 2023 08:49:35

Date: 2, JAN, 2023 09:08:52

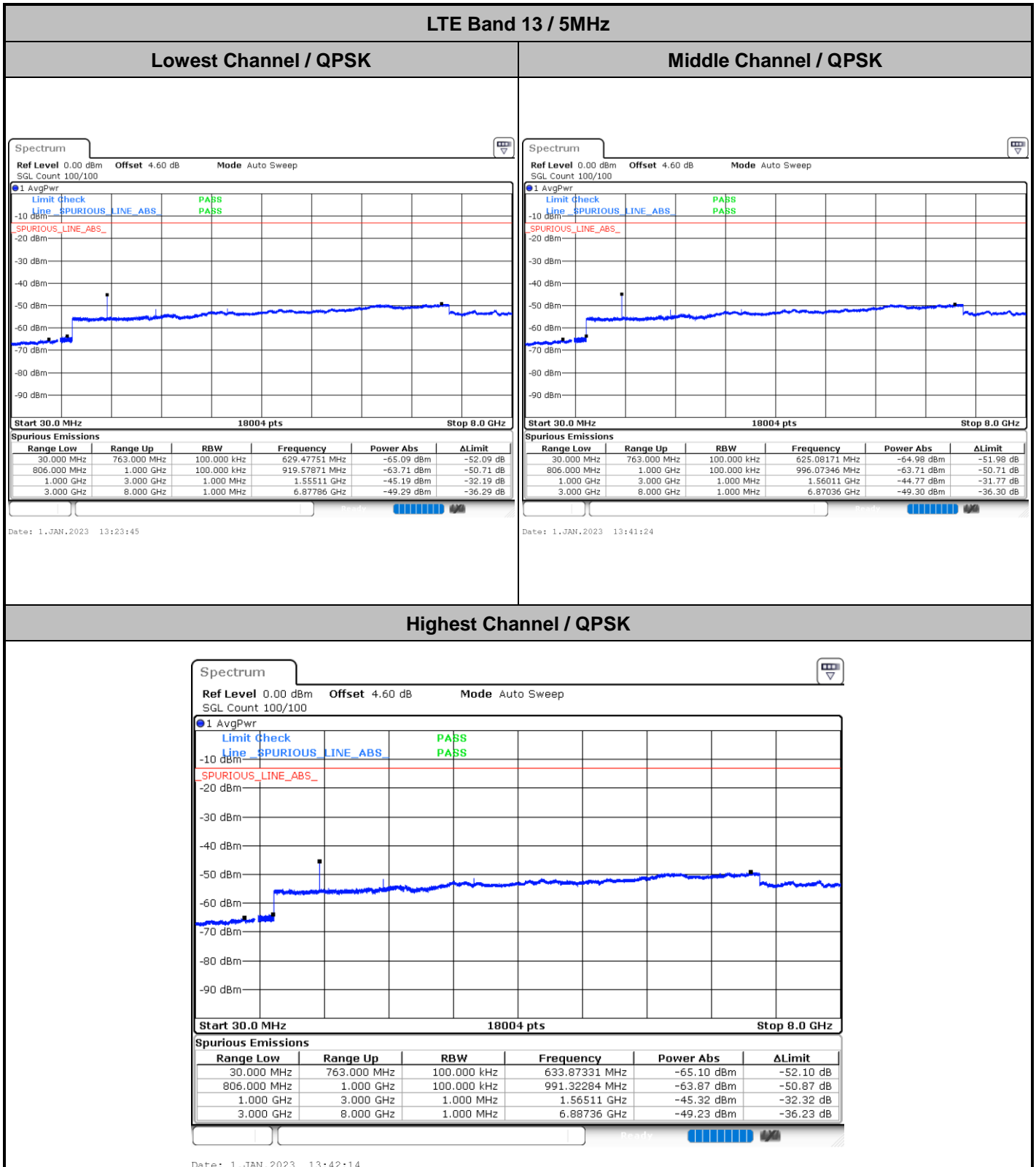
middle Band Edge / Full RB



Date: 2, JAN, 2023 08:56:53



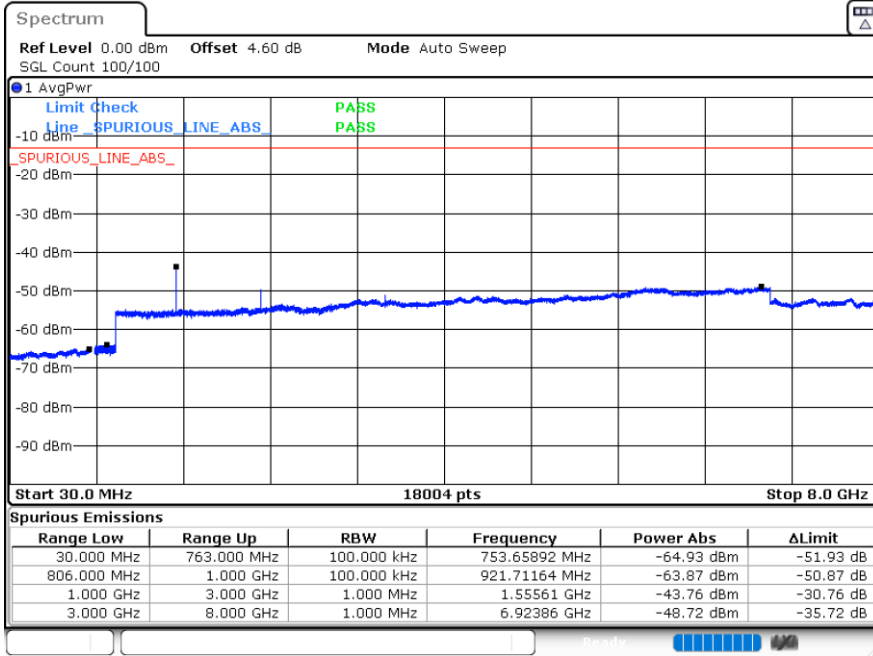
Conducted Spurious Emission





LTE Band 13 / 10MHz

Middle Channel / QPSK



Date: 2.JAN.2023 08:42:17



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	0.0013	PASS
40	Normal Voltage	0.0017	
30	Normal Voltage	0.0025	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0016	
0	Normal Voltage	0.0011	
-10	Normal Voltage	0.0027	
-20	Normal Voltage	0.0009	
-30	Normal Voltage	0.0012	
20	Maximum Voltage	0.0022	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0024	

Note:

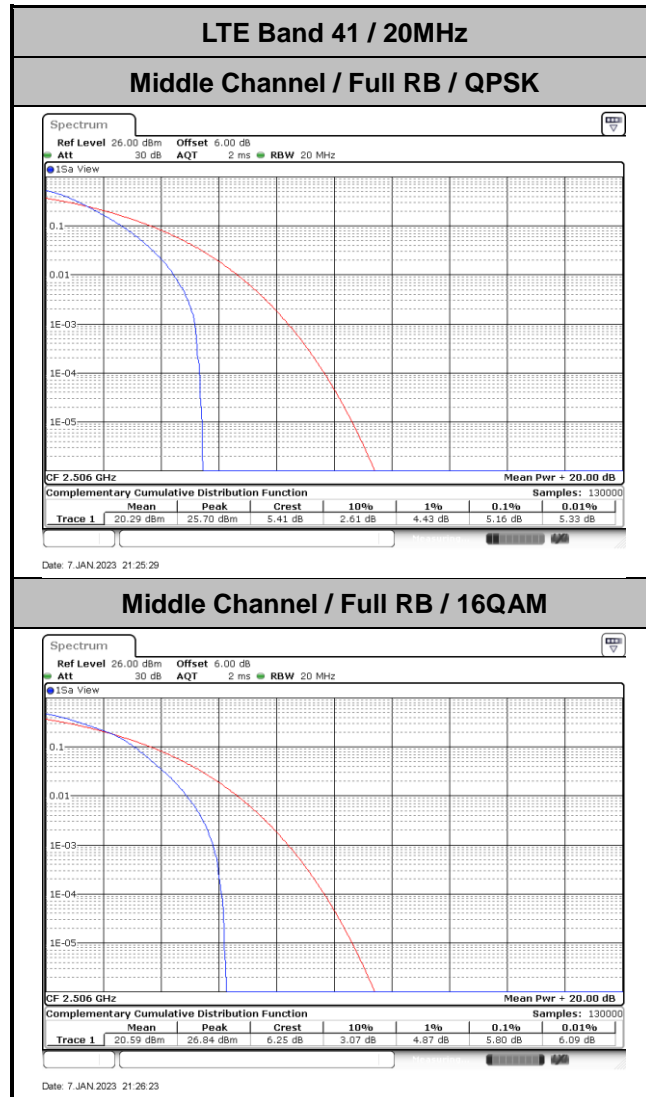
1. Normal Voltage =3.91 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.5 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

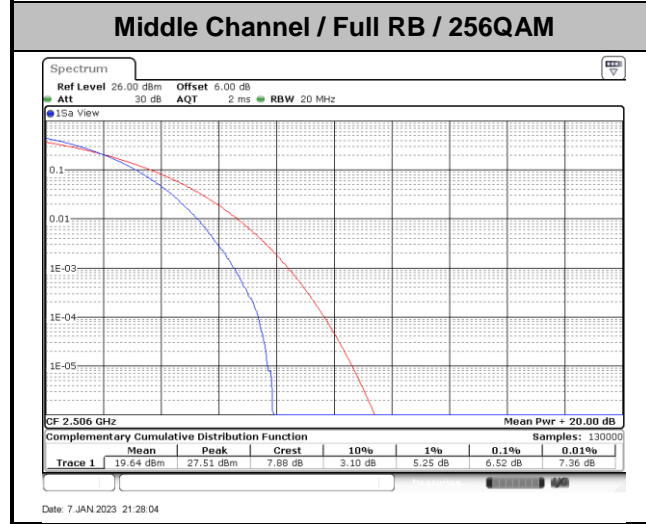
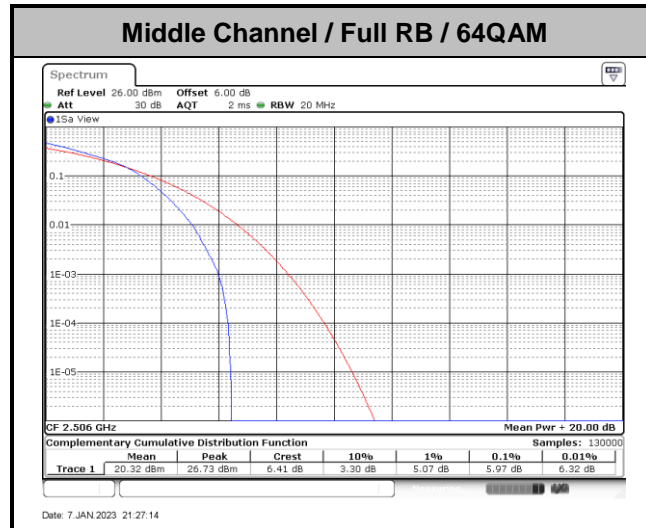


LTE Band 41

Peak-to-Average Ratio

Mode	LTE Band 41 / 20MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	5.16	5.80	5.97	6.52	PASS

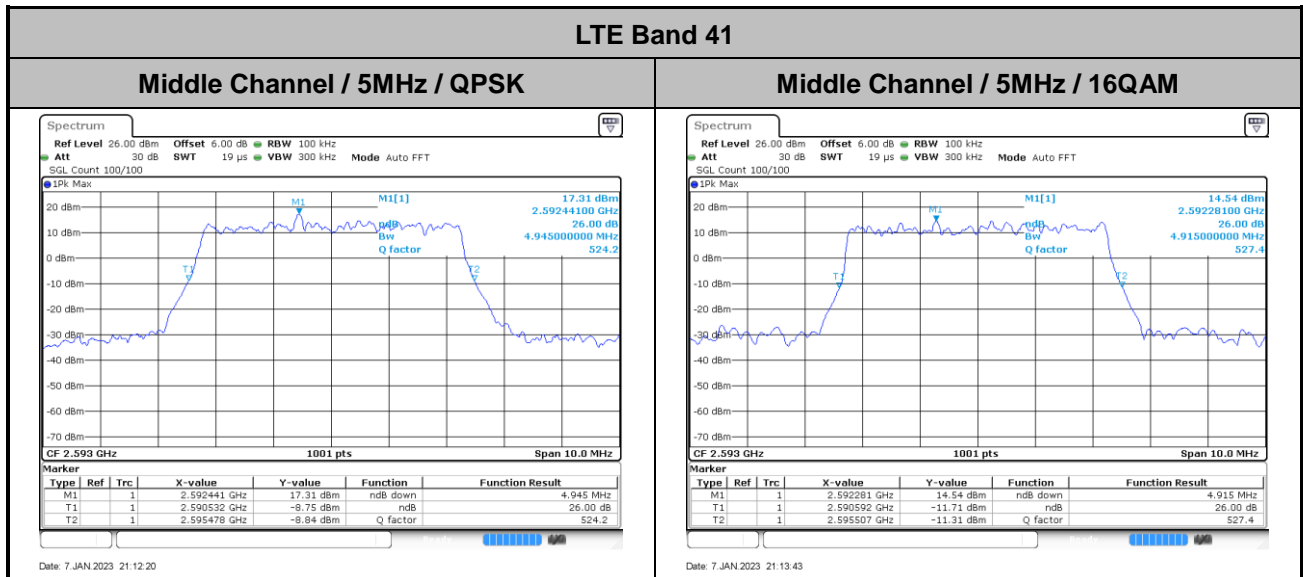






26dB Bandwidth

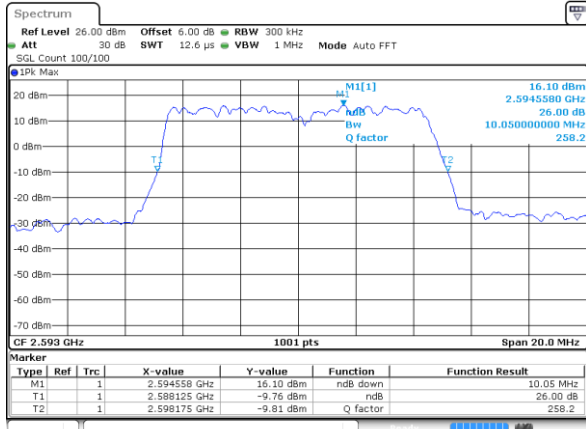
Mode	LTE Band 41 : 26dB BW(MHz)	
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	4.95	4.92
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	10.05	9.67
BW	15MHz	
Mod.	QPSK	16QAM
Middle CH	14.24	14.18
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	19.22	18.86





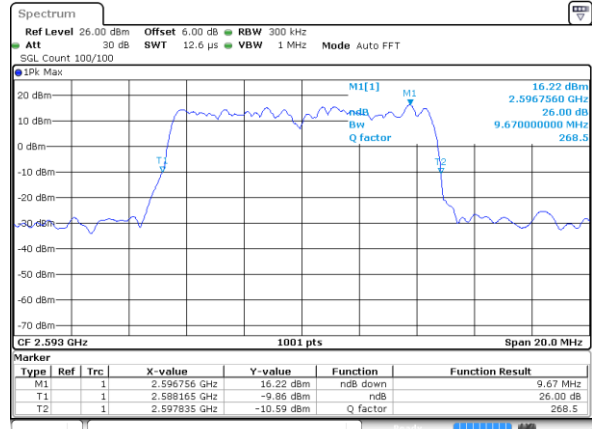
LTE Band 41

Middle Channel / 10MHz / QPSK



Date: 7 JAN 2023 21:17:43

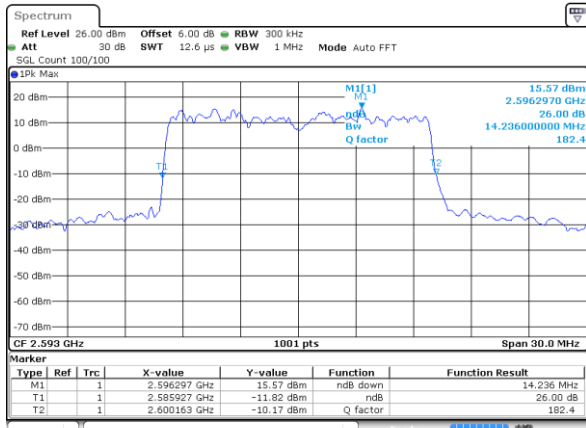
Middle Channel / 10MHz / 16QAM



Date: 7 JAN 2023 21:19:50

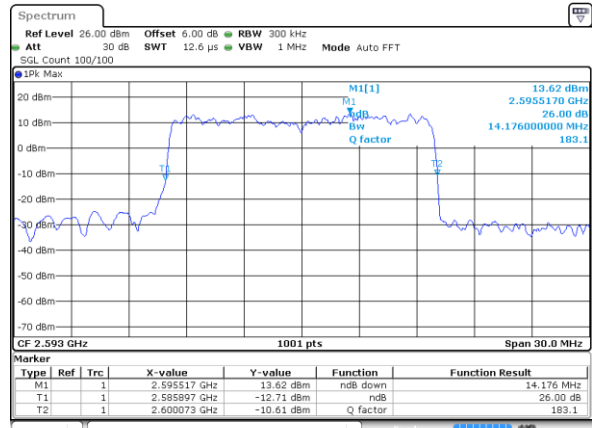
LTE Band 41

Middle Channel / 15MHz / QPSK



Date: 7 JAN 2023 21:21:29

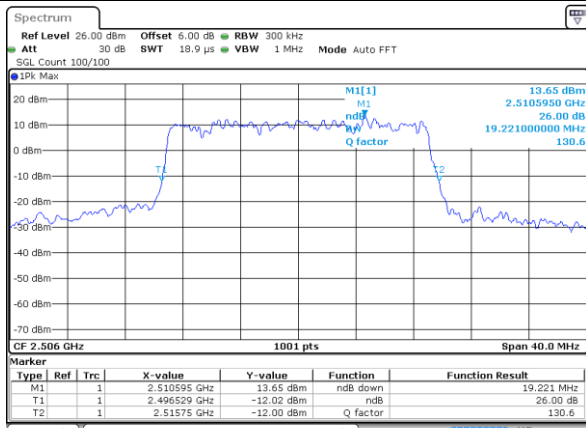
Middle Channel / 15MHz / 16QAM



Date: 7 JAN 2023 21:22:19

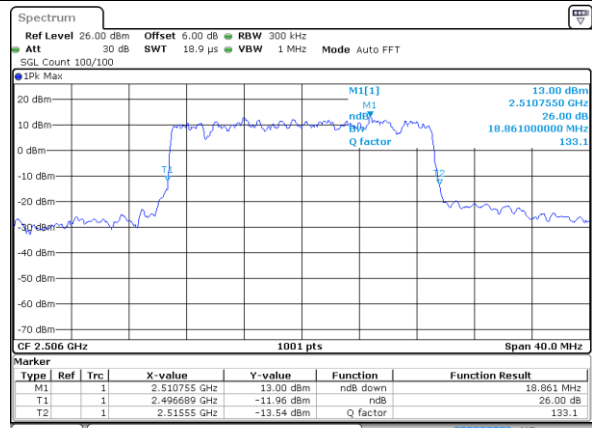
LTE Band 41

Middle Channel / 20MHz / QPSK



Date: 7 JAN 2023 21:23:54

Middle Channel / 20MHz / 16QAM

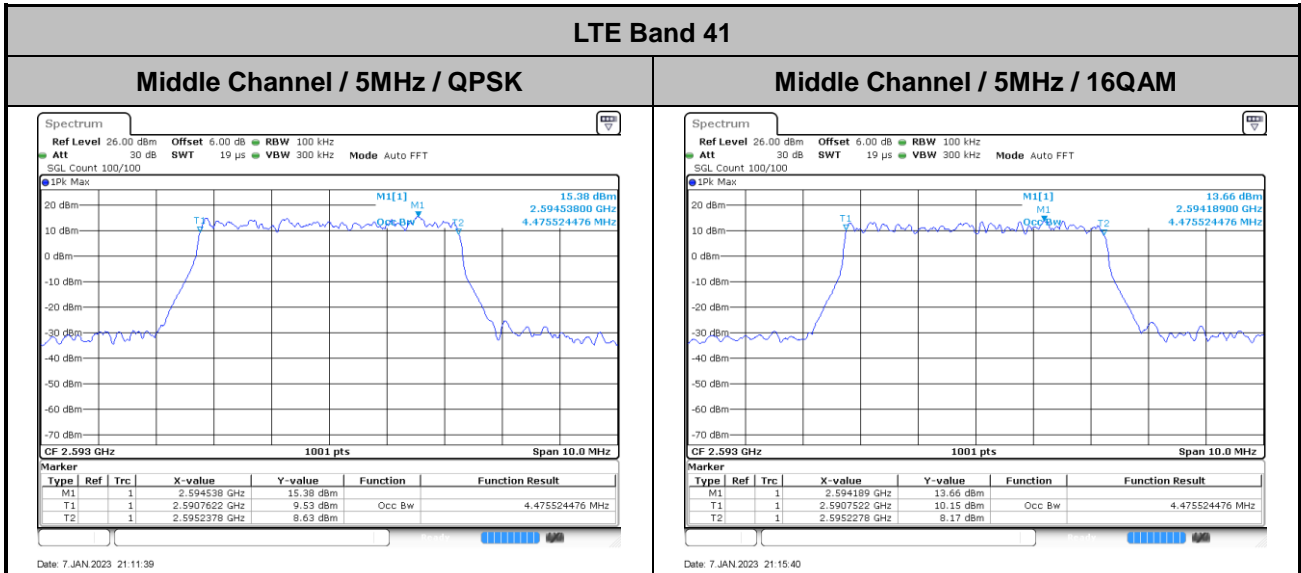


Date: 7 JAN 2023 21:24:55



Occupied Bandwidth

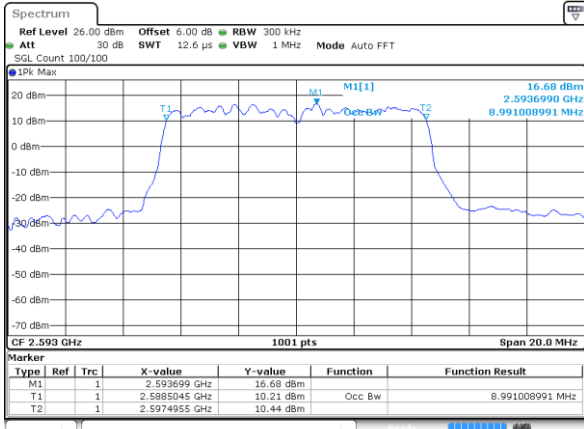
Mode	LTE Band 41 : 99%OBW(MHz)	
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	4.48	4.48
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	8.99	9.05
BW	15MHz	
Mod.	QPSK	16QAM
Middle CH	13.43	13.46
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	17.90	17.94





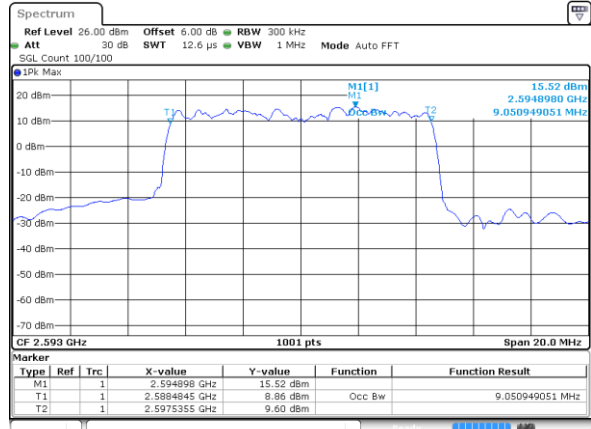
LTE Band 41

Middle Channel / 10MHz / QPSK



Date: 7 JAN 2023 21:17:13

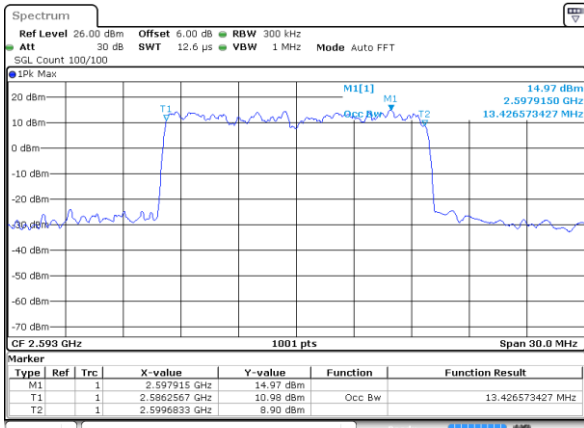
Middle Channel / 10MHz / 16QAM



Date: 7 JAN 2023 21:18:43

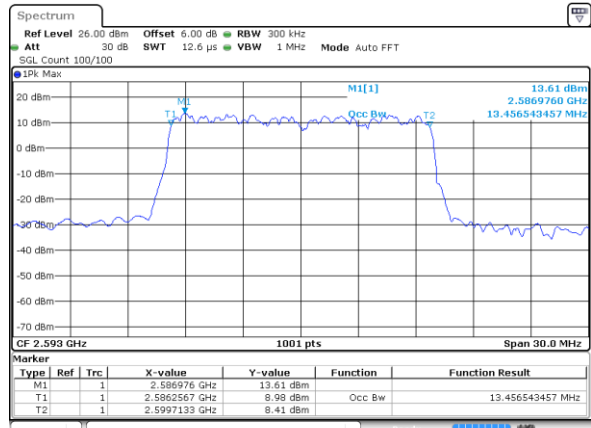
LTE Band 41

Middle Channel / 15MHz / QPSK



Date: 7 JAN 2023 21:20:52

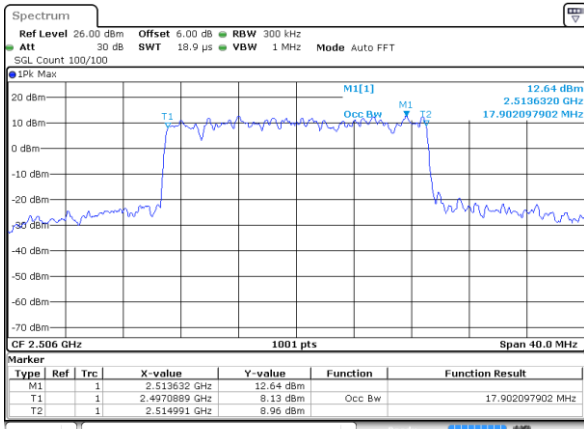
Middle Channel / 15MHz / 16QAM



Date: 7 JAN 2023 21:21:54

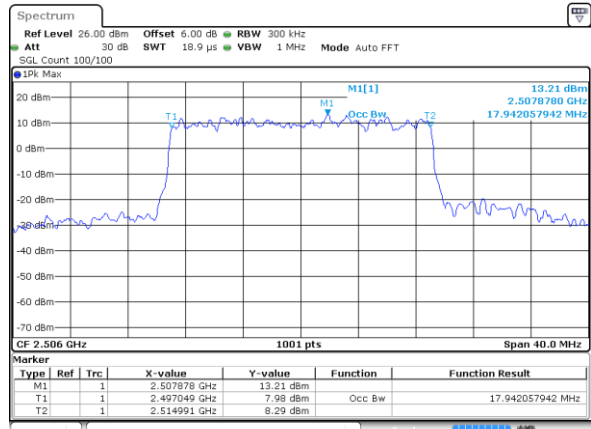
LTE Band 41

Middle Channel / 20MHz / QPSK



Date: 7 JAN 2023 21:23:25

Middle Channel / 20MHz / 16QAM



Date: 7 JAN 2023 21:24:26