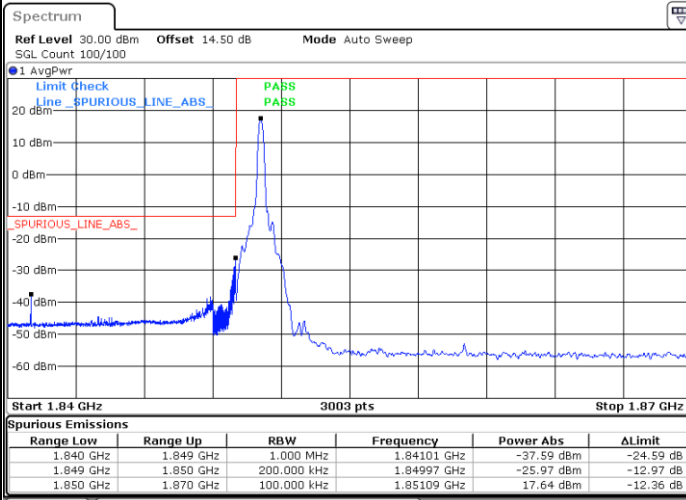




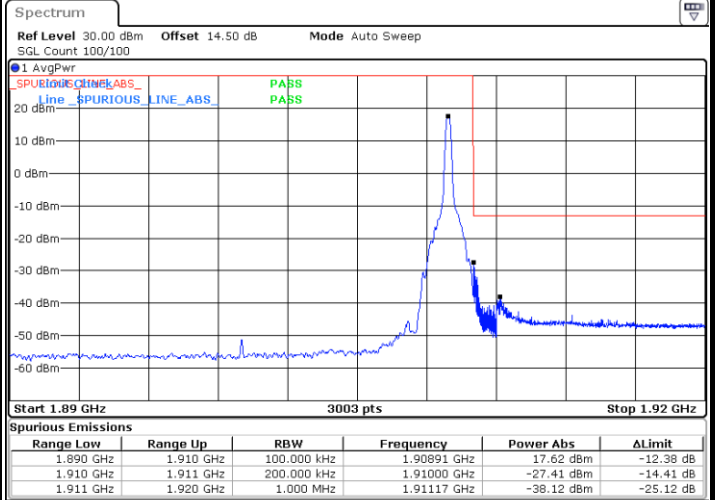
LTE Band 2 / 20MHz / 64QAM

Lowest Band Edge / 1 RB



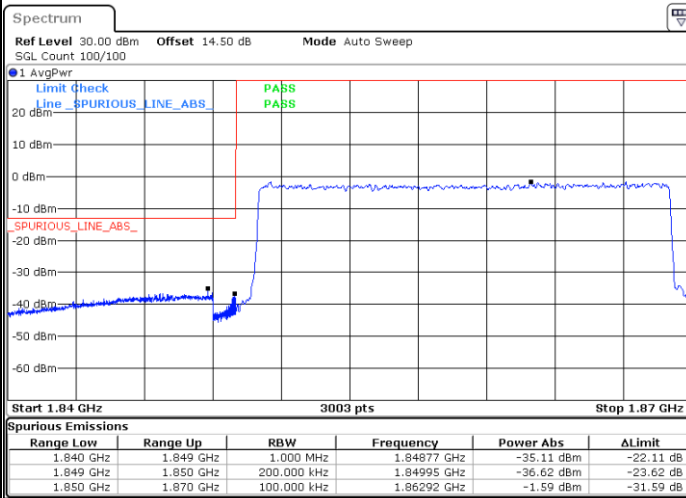
Date: 29.DEC.2023 20:12:37

Highest Band Edge / 1 RB



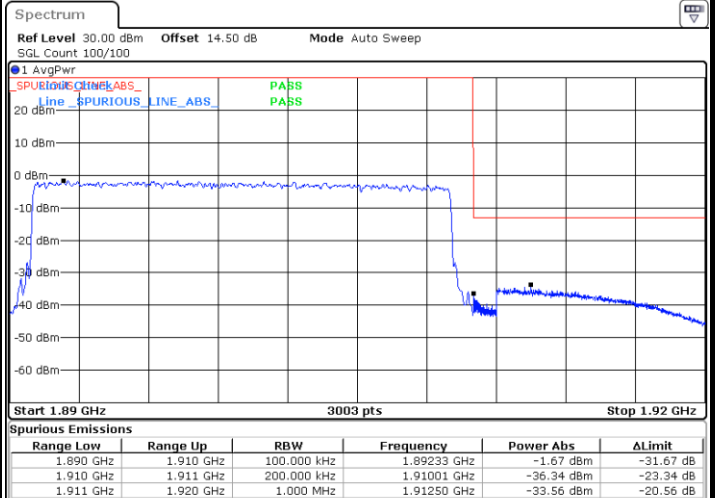
Date: 29.DEC.2023 20:23:52

Lowest Band Edge / Full RB



Date: 29.DEC.2023 20:15:41

Highest Band Edge / Full RB



Date: 29.DEC.2023 20:26:57

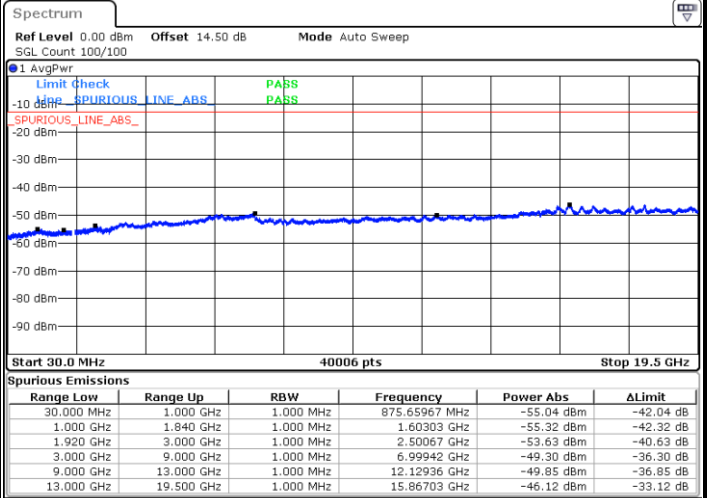
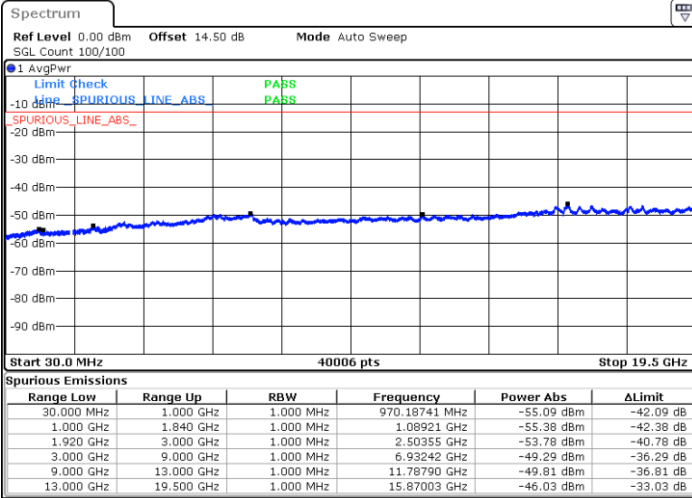


Conducted Spurious Emission

LTE Band 2 / 1.4MHz

Lowest Channel / QPSK

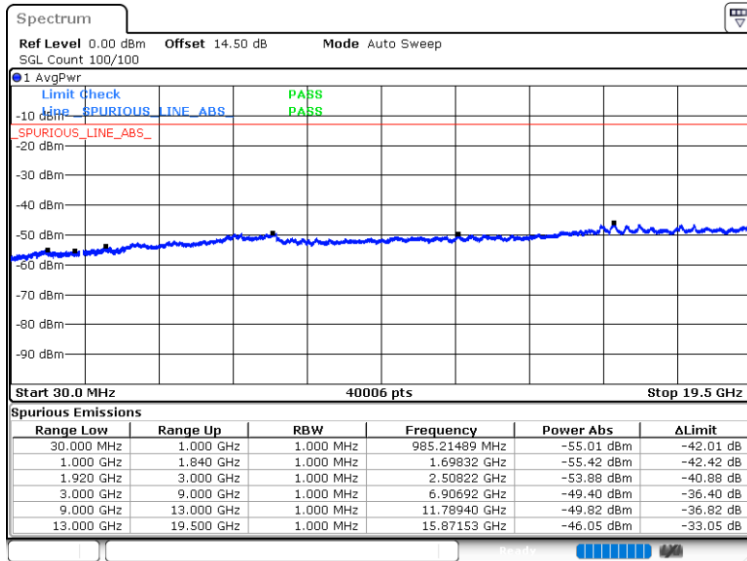
Middle Channel / QPSK



Date: 29.DEC.2023 18:04:54

Date: 29.DEC.2023 18:09:09

Highest Channel / QPSK



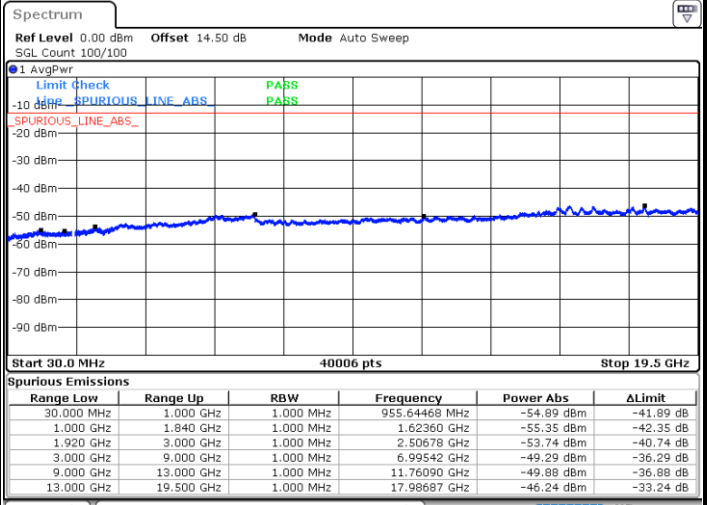
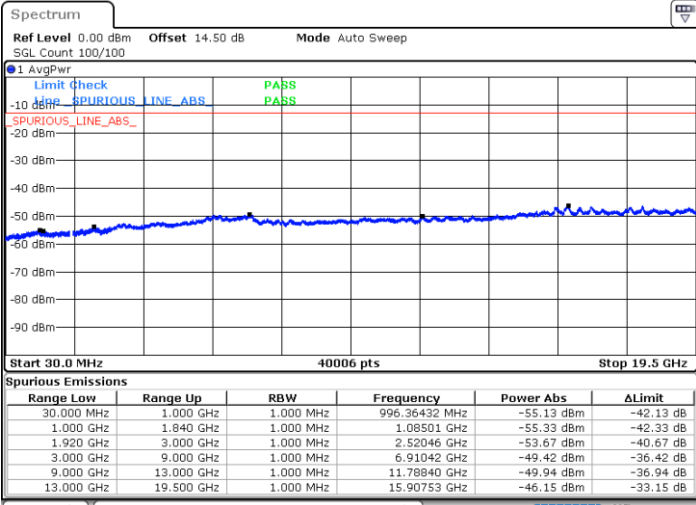
Date: 29.DEC.2023 18:14:46



LTE Band 2 / 3MHz

Lowest Channel / QPSK

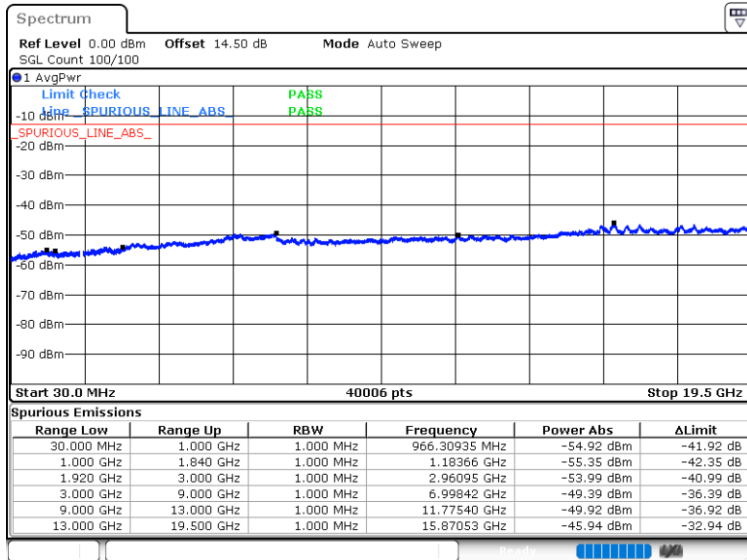
Middle Channel / QPSK



Date: 29.DEC.2023 18:34:27

Date: 29.DEC.2023 18:38:41

Highest Channel / QPSK



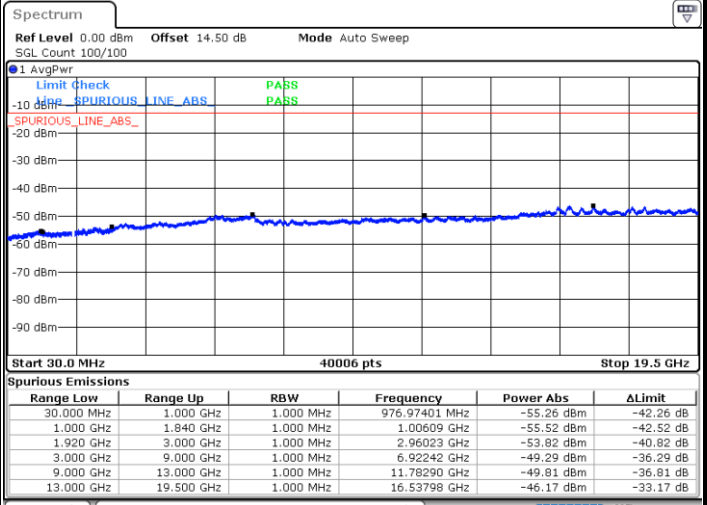
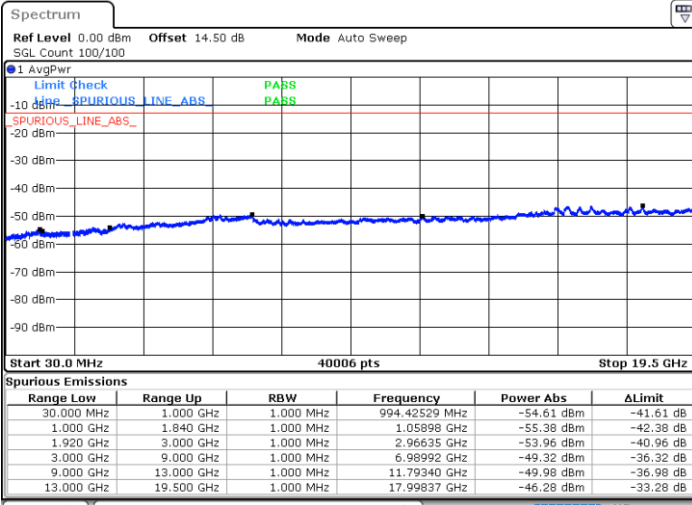
Date: 29.DEC.2023 18:47:23



LTE Band 2 / 5MHz

Lowest Channel / QPSK

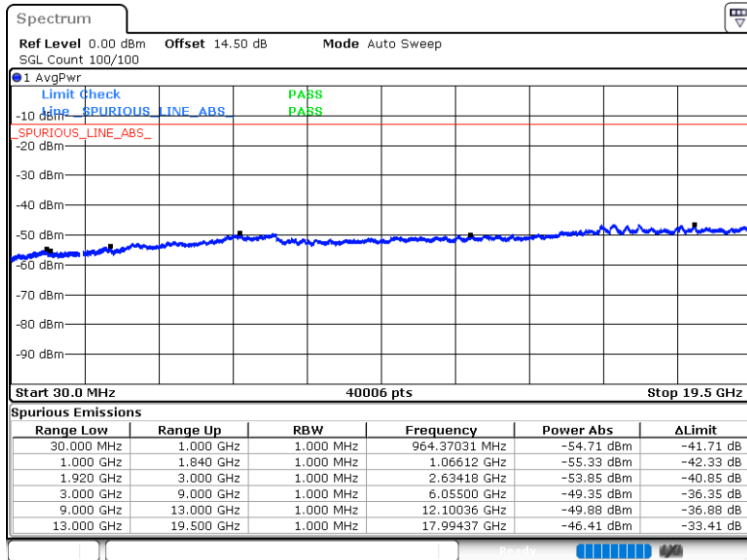
Middle Channel / QPSK



Date: 29.DEC.2023 19:03:34

Date: 29.DEC.2023 19:07:49

Highest Channel / QPSK



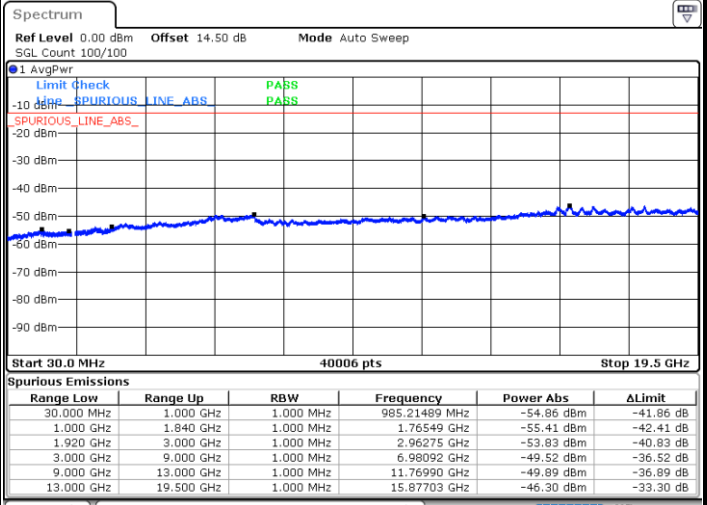
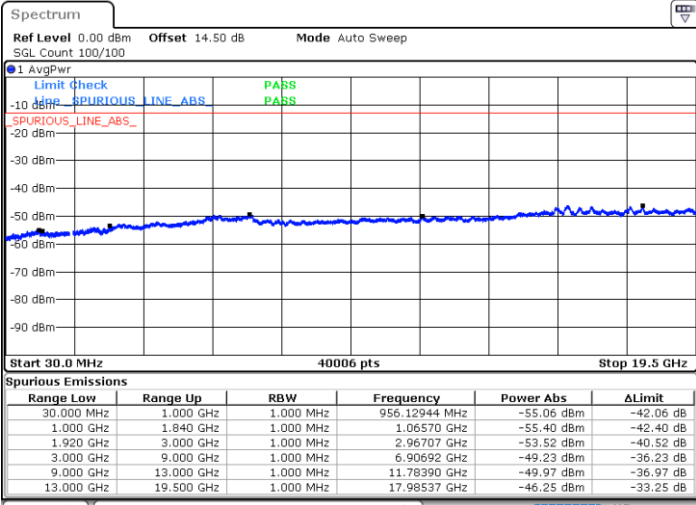
Date: 29.DEC.2023 19:16:31



LTE Band 2 / 10MHz

Lowest Channel / QPSK

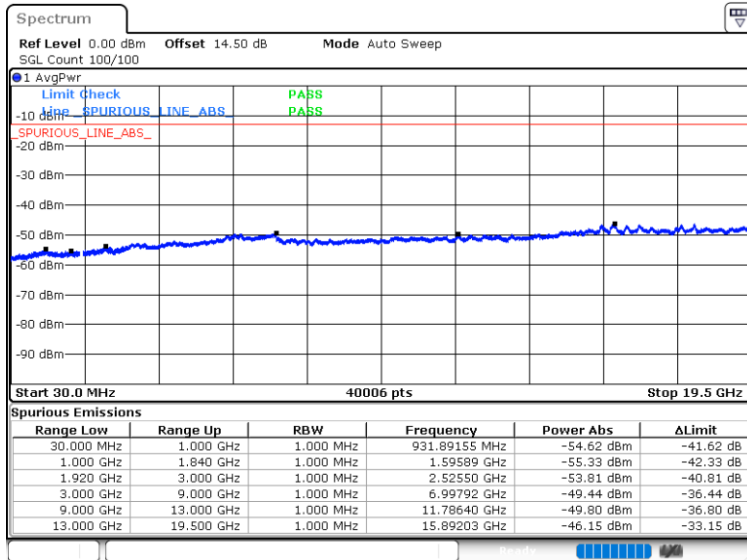
Middle Channel / QPSK



Date: 29.DEC.2023 19:32:11

Date: 29.DEC.2023 19:33:22

Highest Channel / QPSK



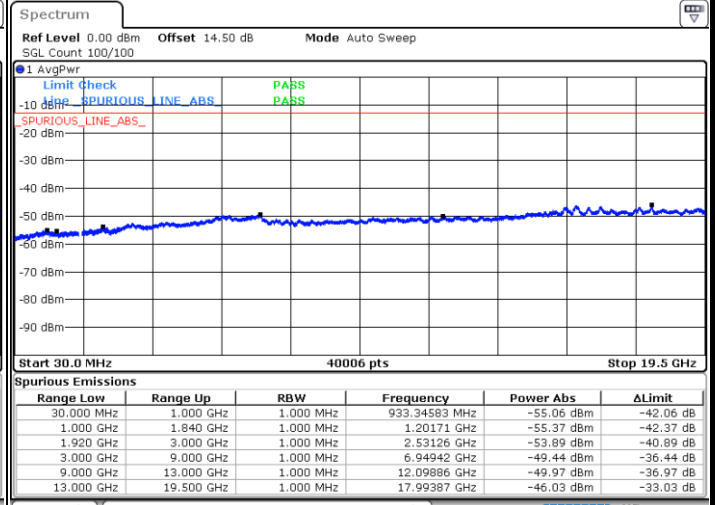
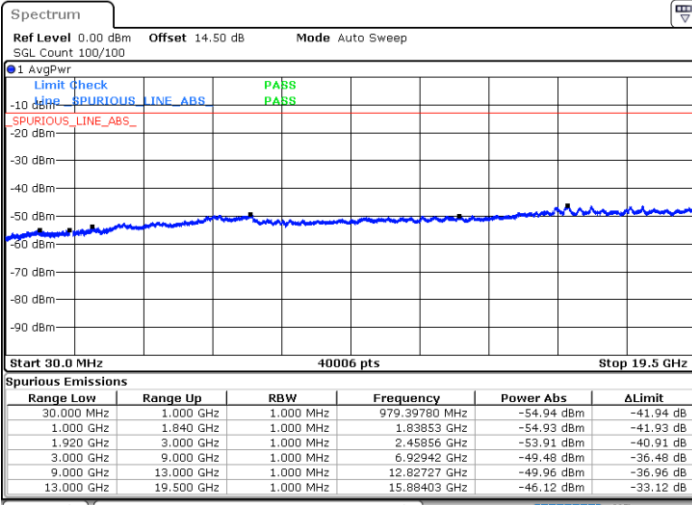
Date: 29.DEC.2023 19:42:04



LTE Band 2 / 15MHz

Lowest Channel / QPSK

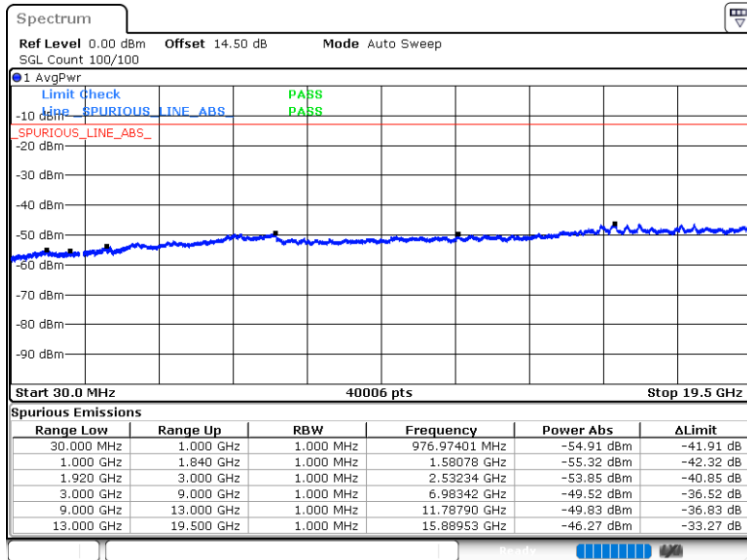
Middle Channel / QPSK



Date: 29.DEC.2023 19:53:40

Date: 29.DEC.2023 19:54:51

Highest Channel / QPSK



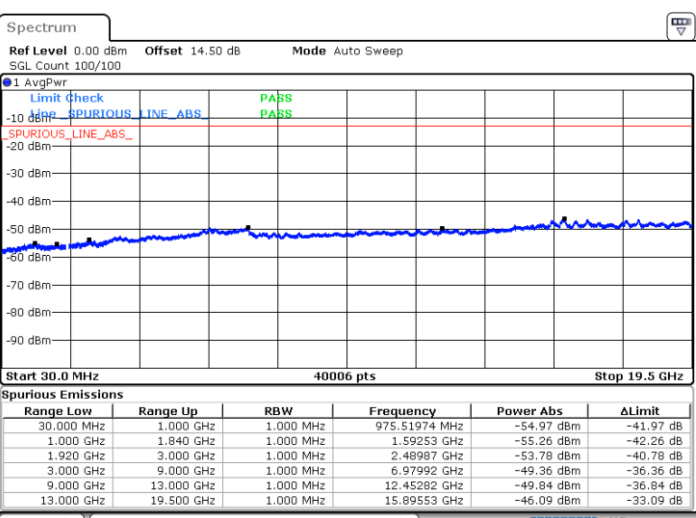
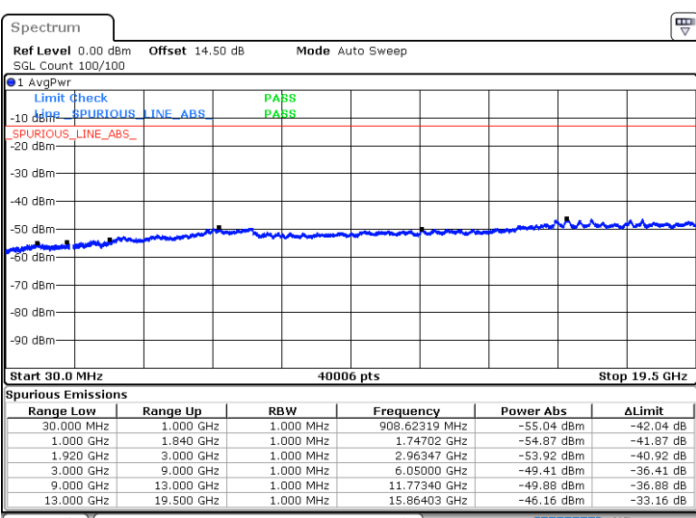
Date: 29.DEC.2023 20:03:33



LTE Band 2 / 20MHz

Lowest Channel / QPSK

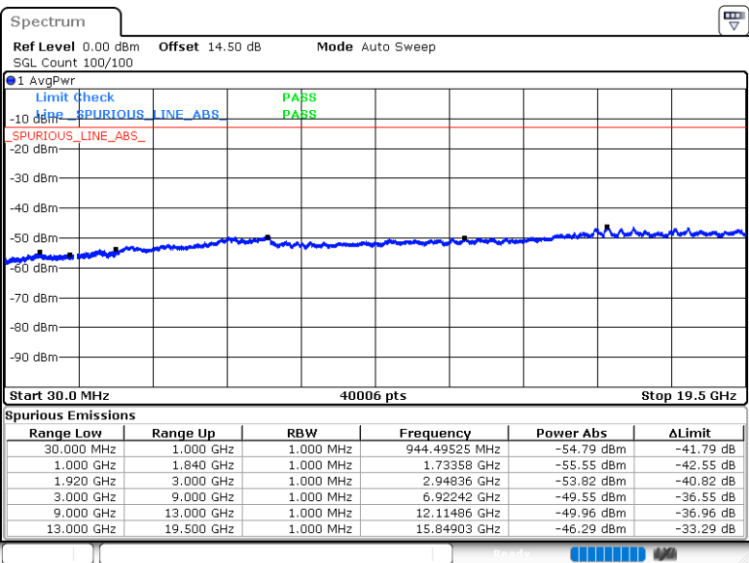
Middle Channel / QPSK



Date: 29.DEC.2023 20:16:53

Date: 29.DEC.2023 20:18:03

Highest Channel / QPSK



Date: 29.DEC.2023 20:28:09



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	0.0002	PASS
40	Normal Voltage	0.0004	
30	Normal Voltage	0.0002	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0005	
0	Normal Voltage	0.0003	
-10	Normal Voltage	0.0001	
-20	Normal Voltage	0.0004	
-30	Normal Voltage	0.0000	
20	Maximum Voltage	0.0005	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0003	

Note:

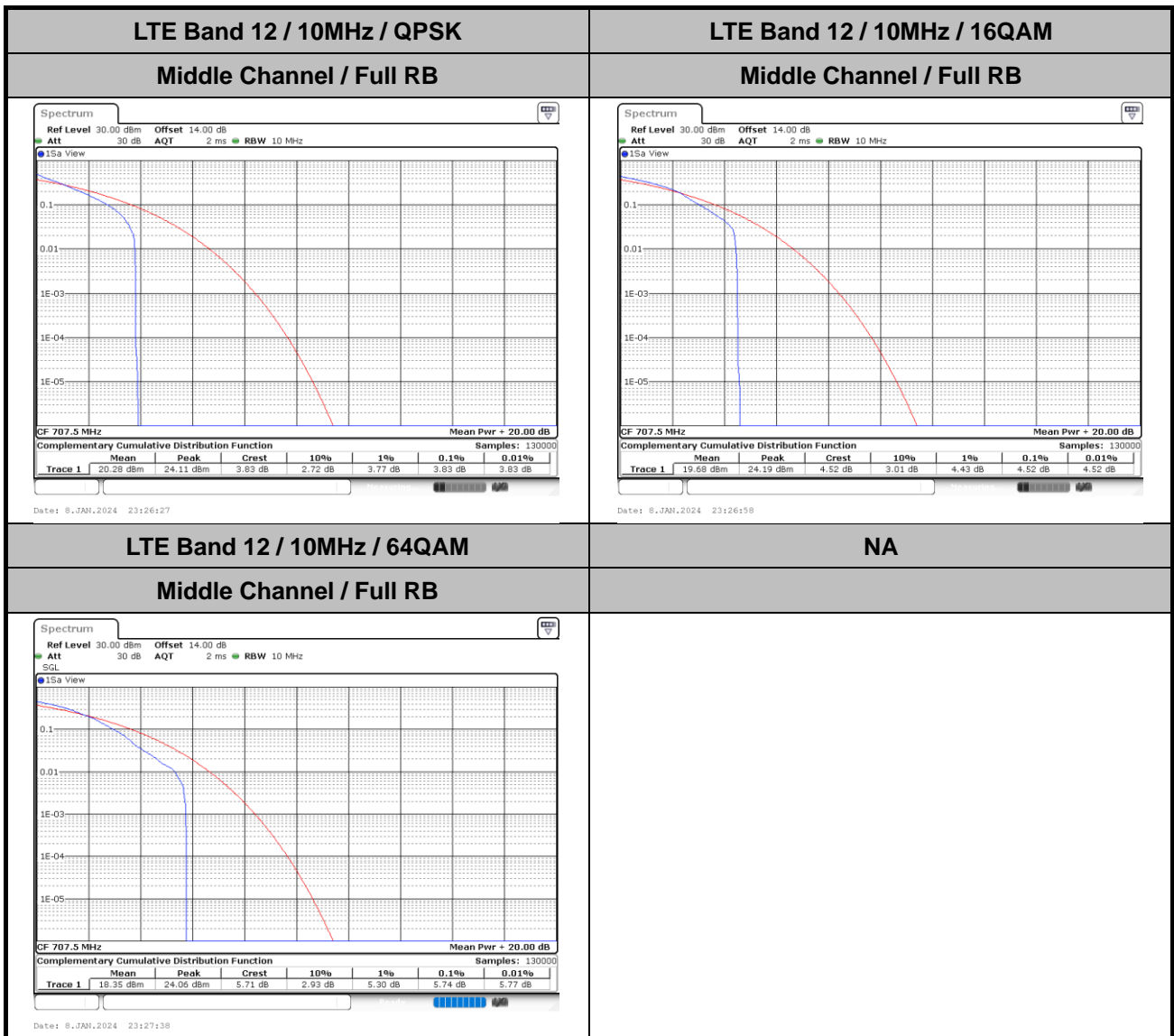
1. Normal Voltage = 3.89 V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage = 4.48 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 12

Peak-to-Average Ratio

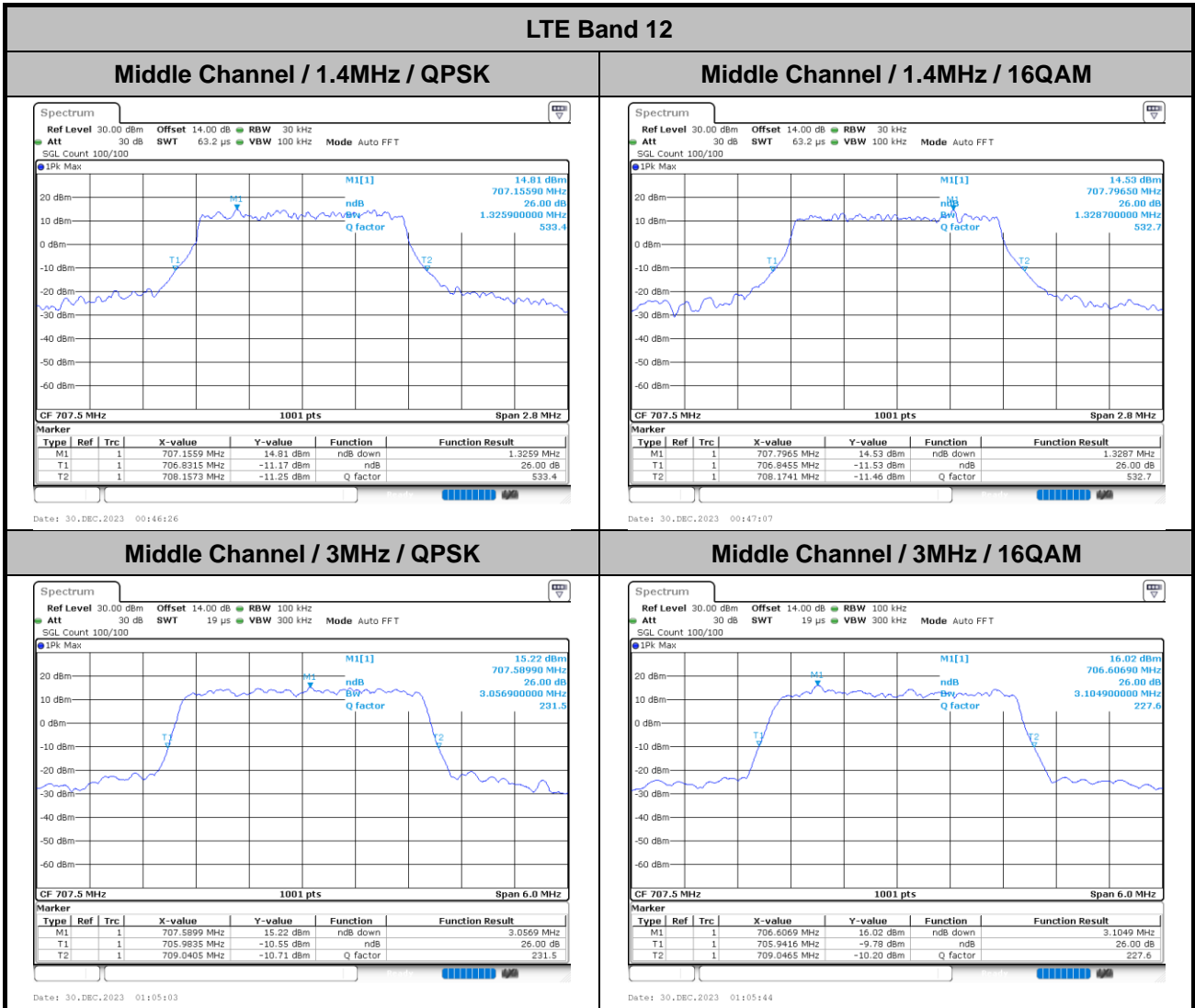
Mode	LTE Band 12 / 10MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	3.83	4.52	5.74	PASS





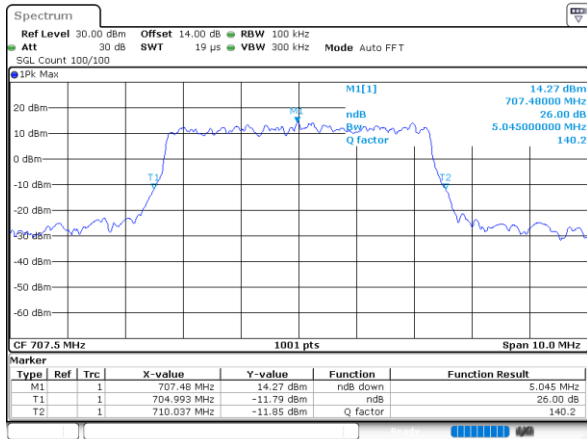
26dB Bandwidth

Mode	LTE Band 12 : 26dB BW(MHz)							
BW	1.4MHz		3MHz		5MHz		10MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	1.33	1.33	3.06	3.10	5.05	5.12	9.67	9.97



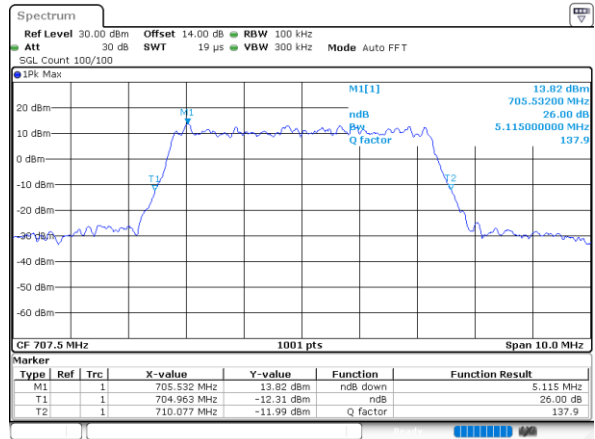


Middle Channel / 5MHz / QPSK



Date: 30, DEC, 2023 01:34:27

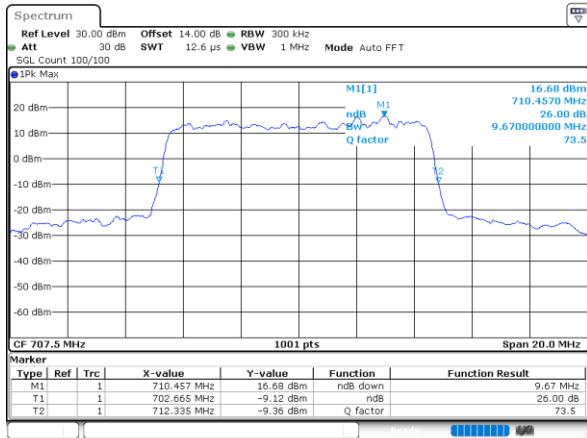
Middle Channel / 5MHz / 16QAM



Date: 30, DEC, 2023 01:35:08

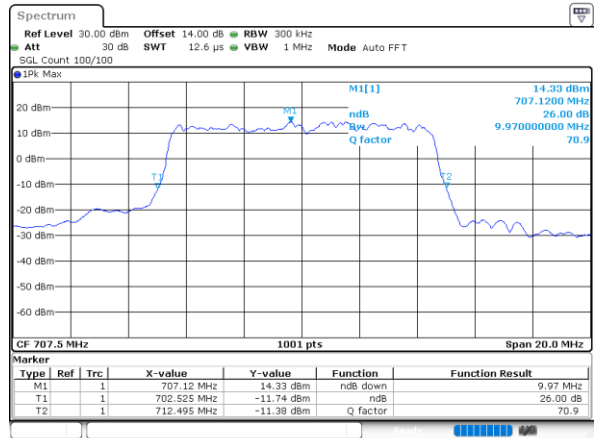
LTE Band 12

Middle Channel / 10MHz / QPSK



Date: 30, DEC, 2023 03:24:04

Middle Channel / 10MHz / 16QAM

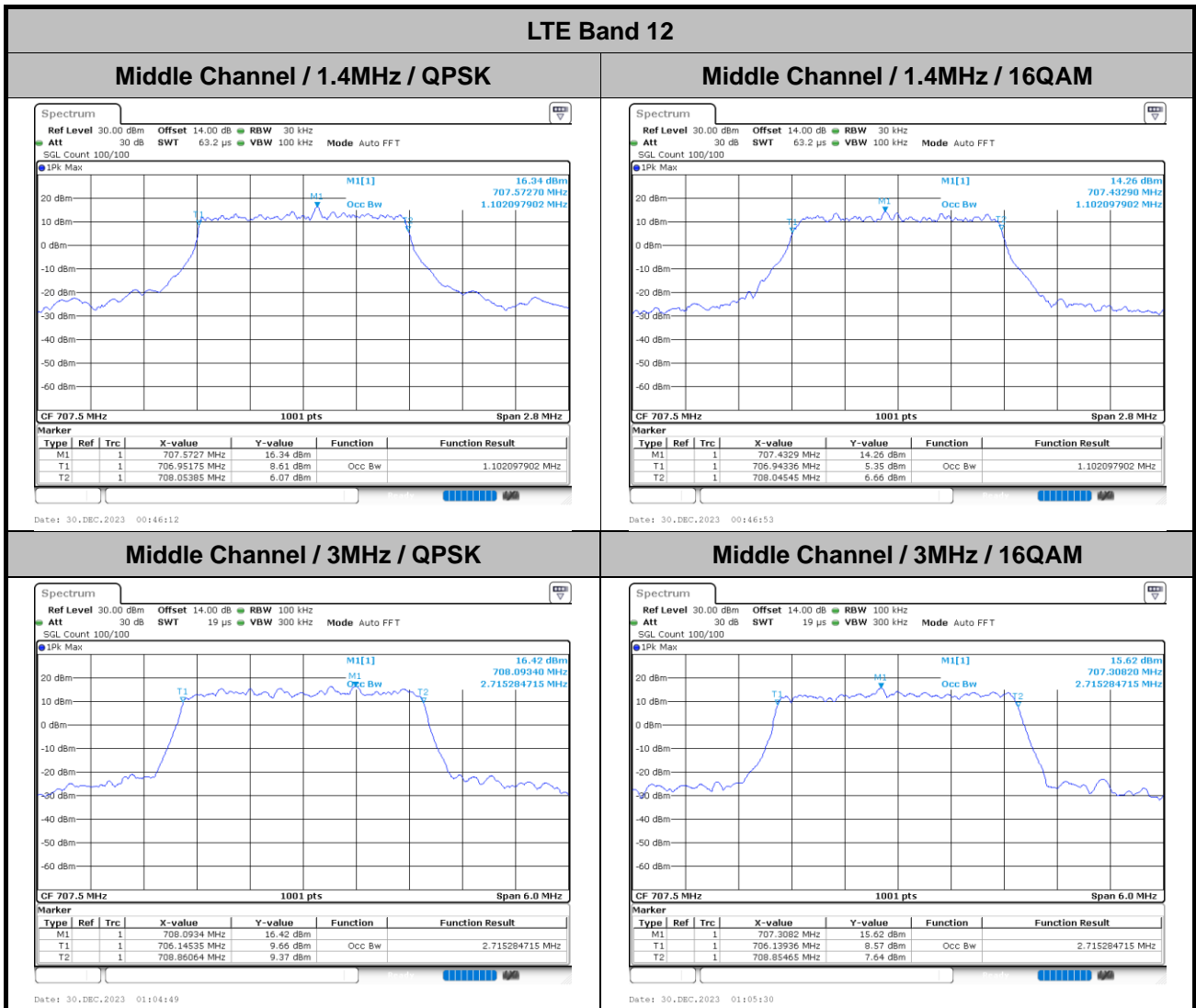


Date: 30, DEC, 2023 03:24:44



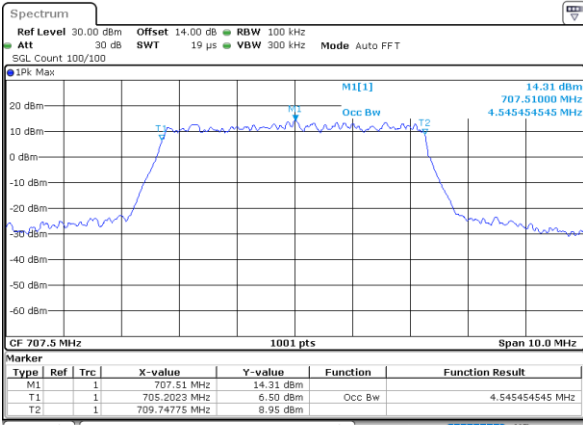
Occupied Bandwidth

Mode	LTE Band 12 : 99%OBW(MHz)							
BW	1.4MHz		3MHz		5MHz		10MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	1.10	1.10	2.72	2.72	4.55	4.51	9.09	9.05



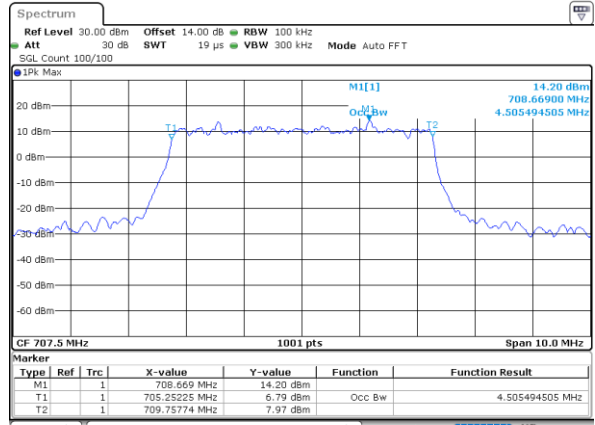


Middle Channel / 5MHz / QPSK



Date: 30, DEC, 2023 01:34:14

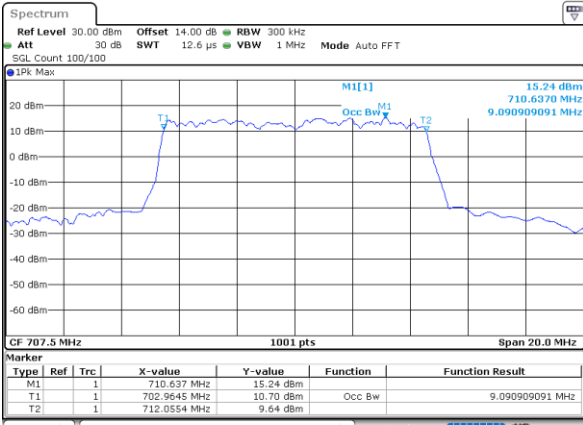
Middle Channel / 5MHz / 16QAM



Date: 30, DEC, 2023 01:34:54

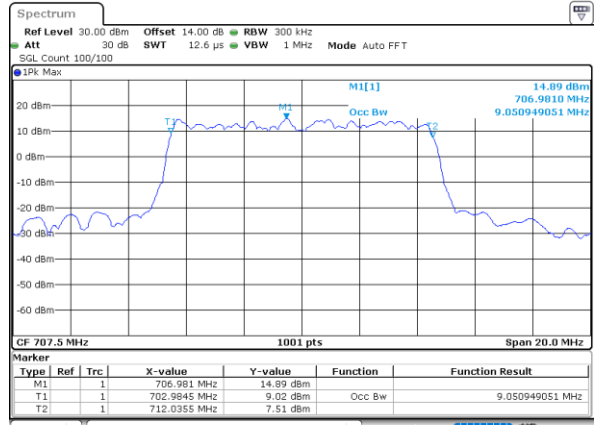
LTE Band 12

Middle Channel / 10MHz / QPSK



Date: 30, DEC, 2023 03:23:50

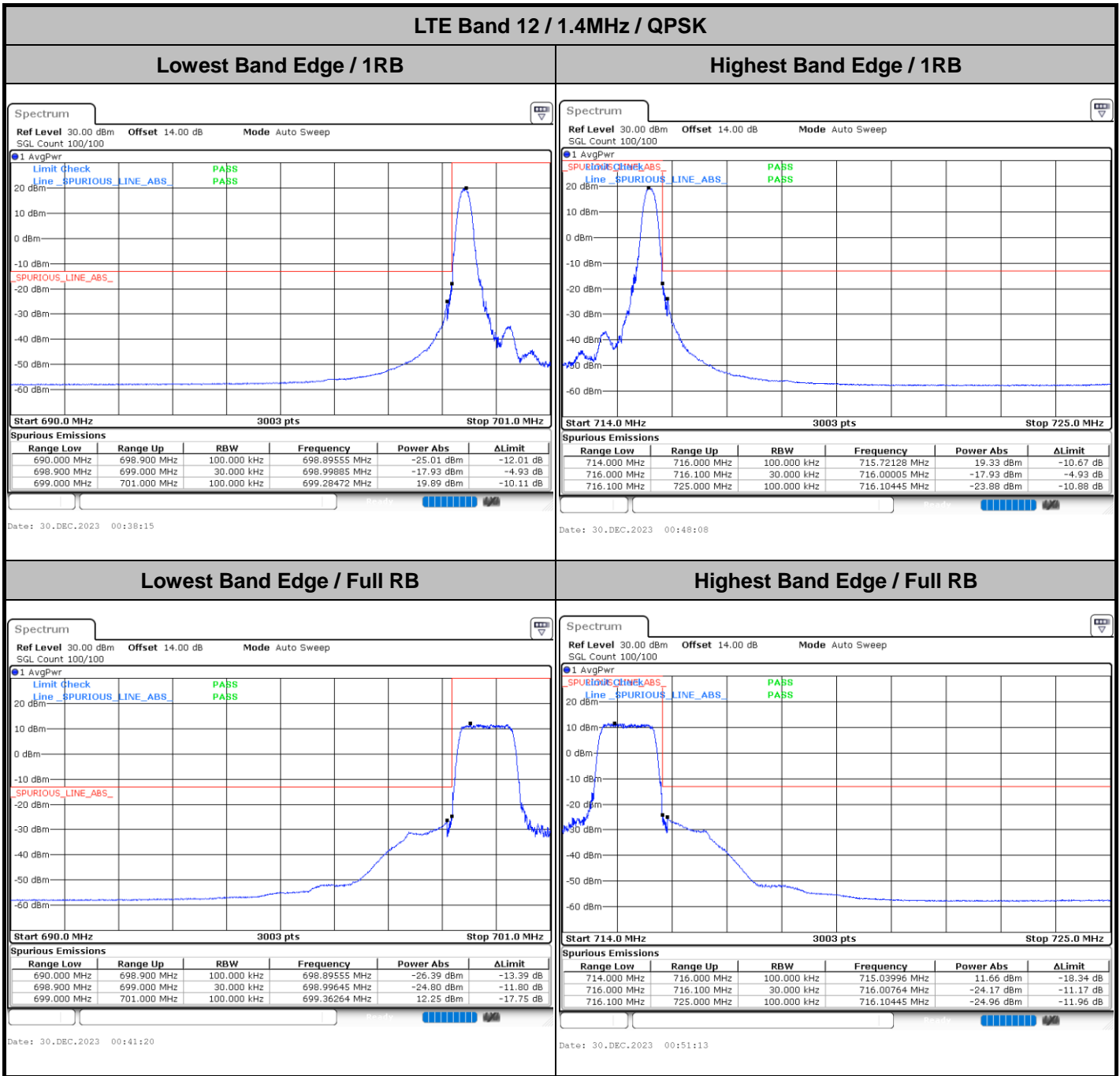
Middle Channel / 10MHz / 16QAM



Date: 30, DEC, 2023 03:24:30



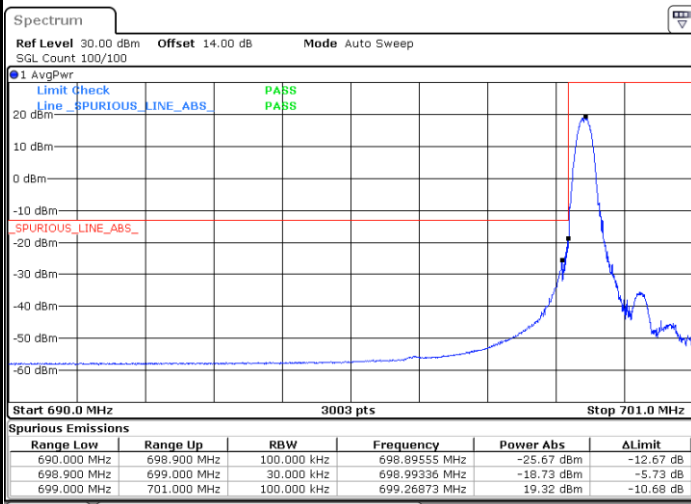
Conducted Band Edge





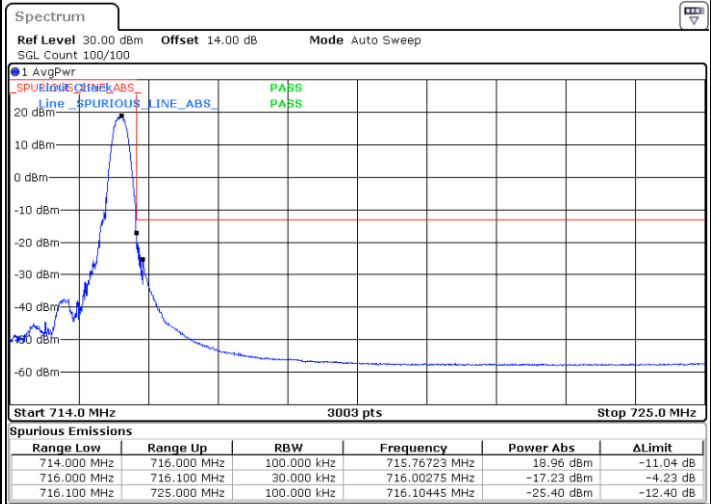
LTE Band 12 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



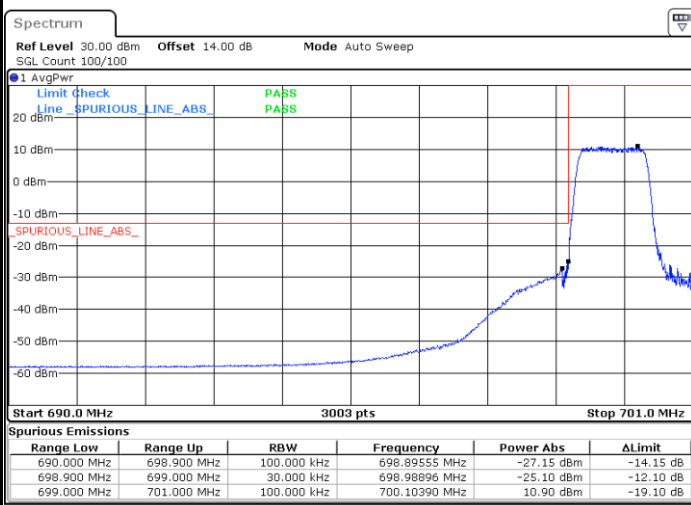
Date: 30.DEC.2023 00:39:17

Highest Band Edge / 1 RB



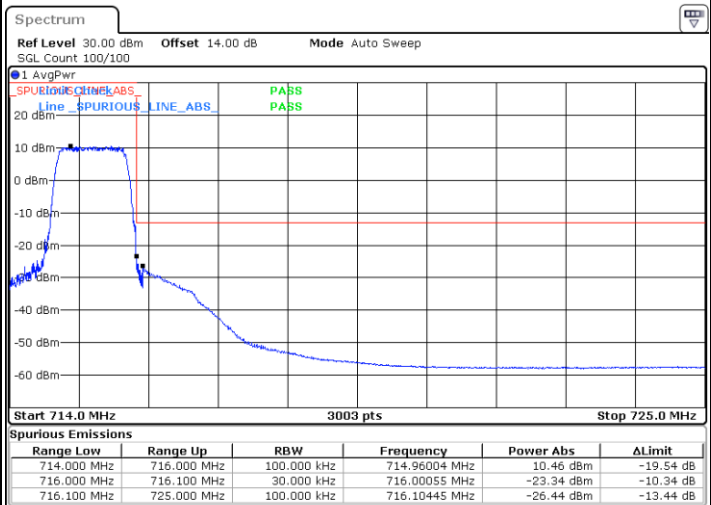
Date: 30.DEC.2023 00:49:09

Lowest Band Edge / Full RB



Date: 30.DEC.2023 00:42:22

Highest Band Edge / Full RB

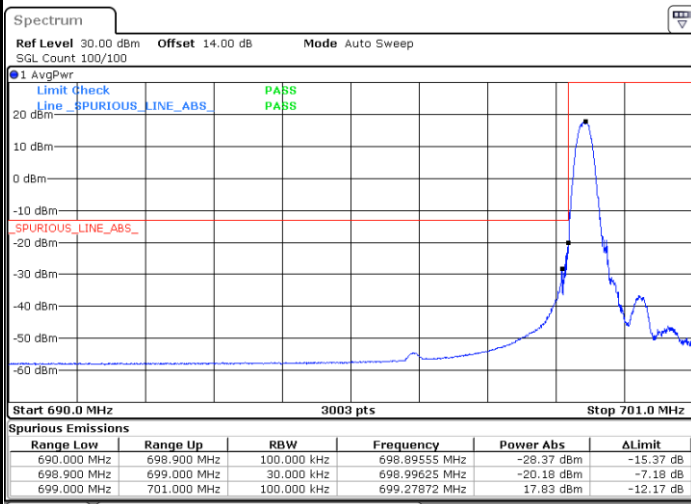


Date: 30.DEC.2023 00:52:14



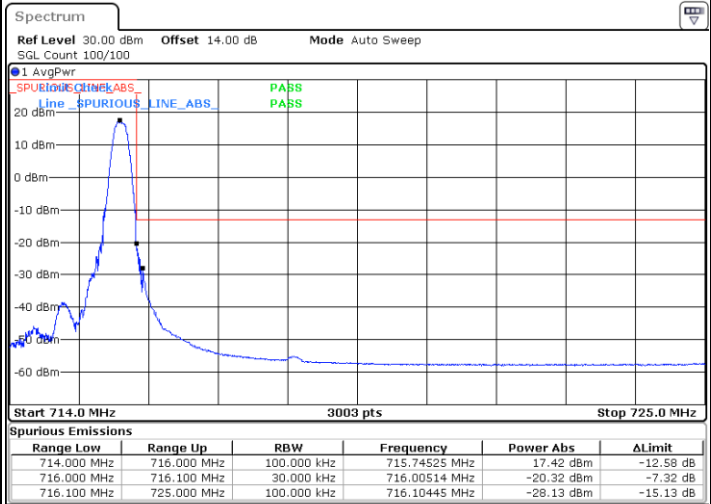
LTE Band 12 / 1.4MHz / 64QAM

Lowest Band Edge / 1 RB



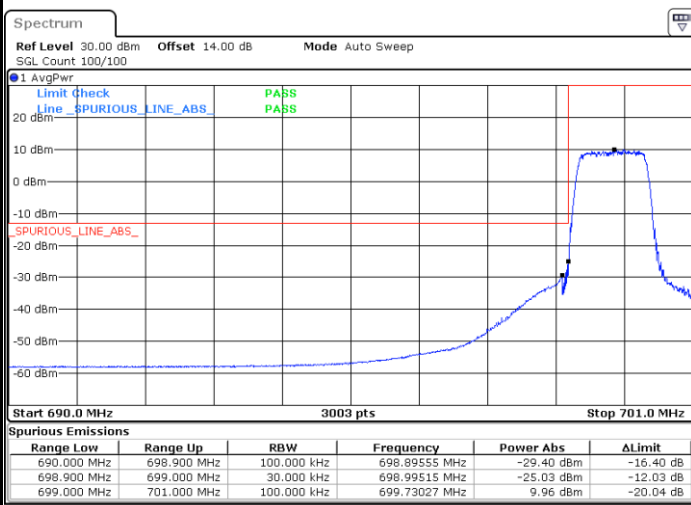
Date: 30.DEC.2023 00:40:19

Highest Band Edge / 1 RB



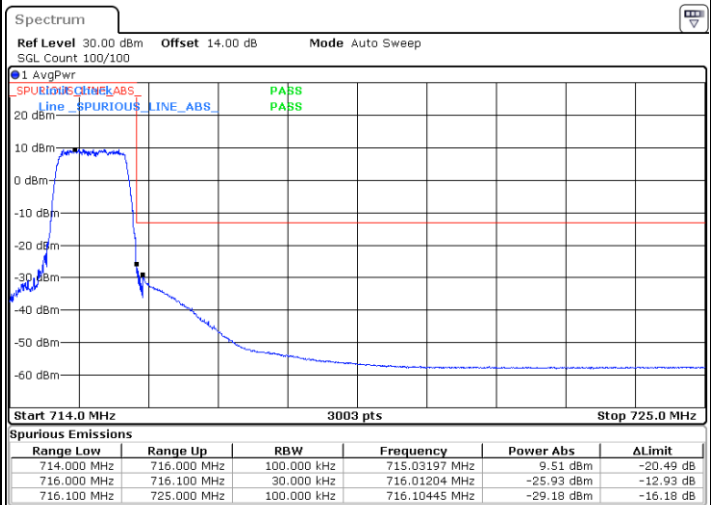
Date: 30.DEC.2023 00:50:11

Lowest Band Edge / Full RB



Date: 30.DEC.2023 00:43:24

Highest Band Edge / Full RB

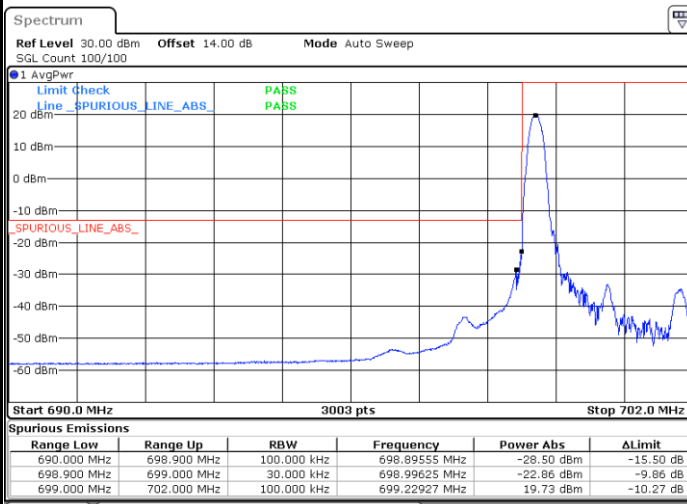


Date: 30.DEC.2023 00:53:16



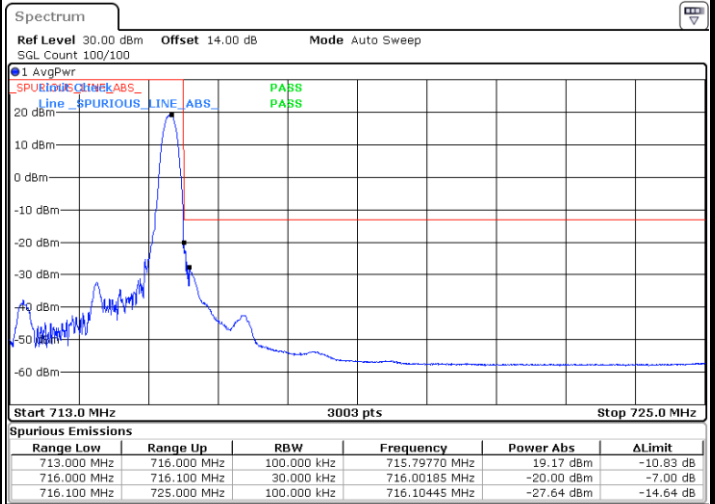
LTE Band 12 / 3MHz / QPSK

Lowest Band Edge / 1RB



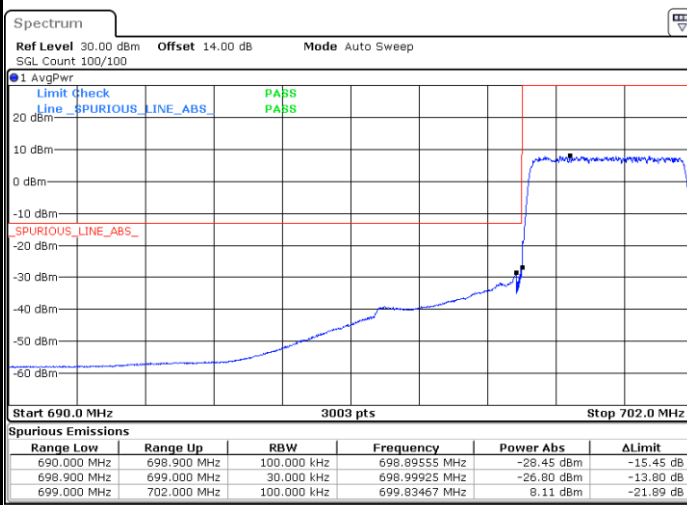
Date: 30.DEC.2023 00:56:52

Highest Band Edge / 1RB



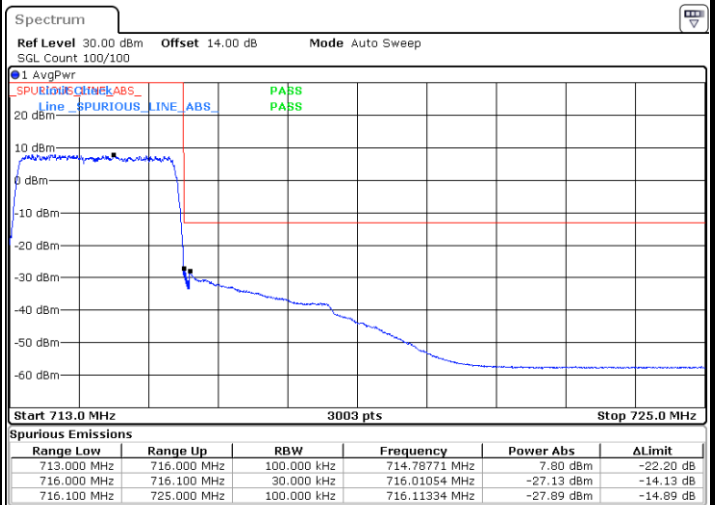
Date: 30.DEC.2023 01:06:44

Lowest Band Edge / Full RB



Date: 30.DEC.2023 00:59:57

Highest Band Edge / Full RB

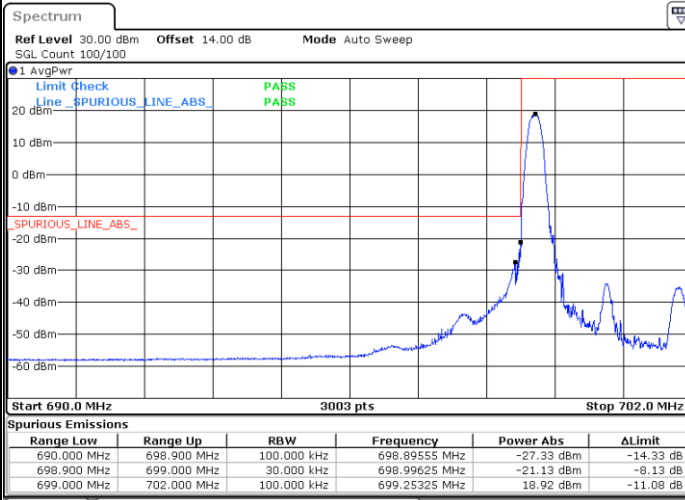


Date: 30.DEC.2023 01:09:49



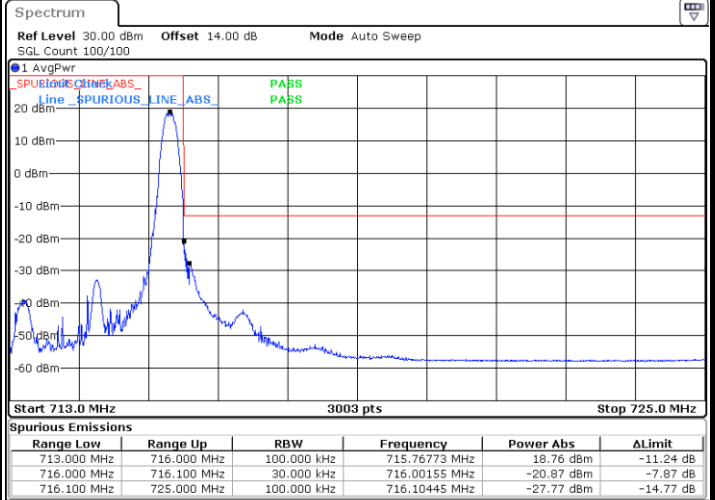
LTE Band 12 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



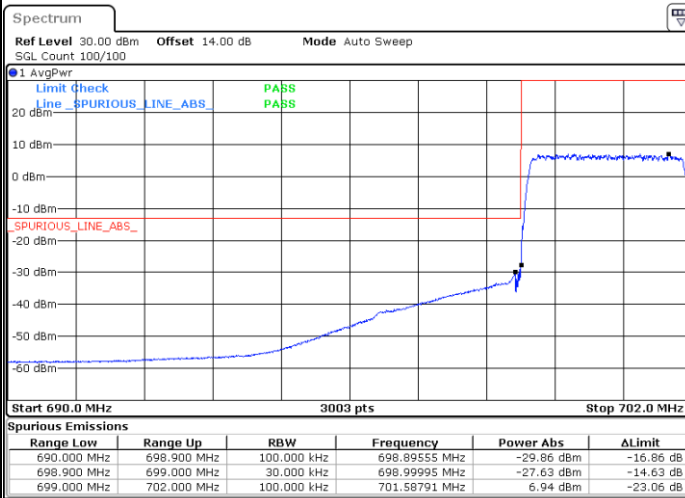
Date: 30.DEC.2023 00:57:54

Highest Band Edge / 1 RB



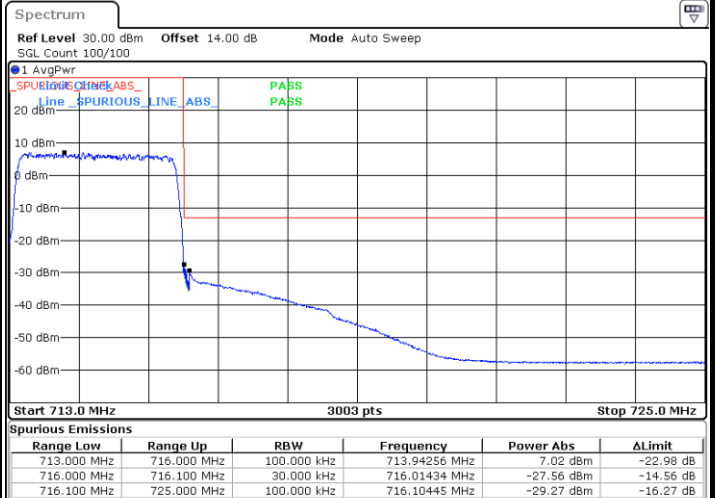
Date: 30.DEC.2023 01:07:46

Lowest Band Edge / Full RB



Date: 30.DEC.2023 01:00:59

Highest Band Edge / Full RB

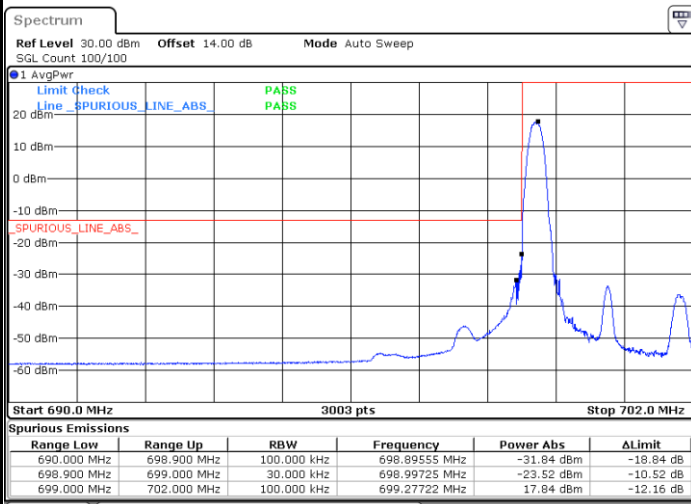


Date: 30.DEC.2023 01:10:51



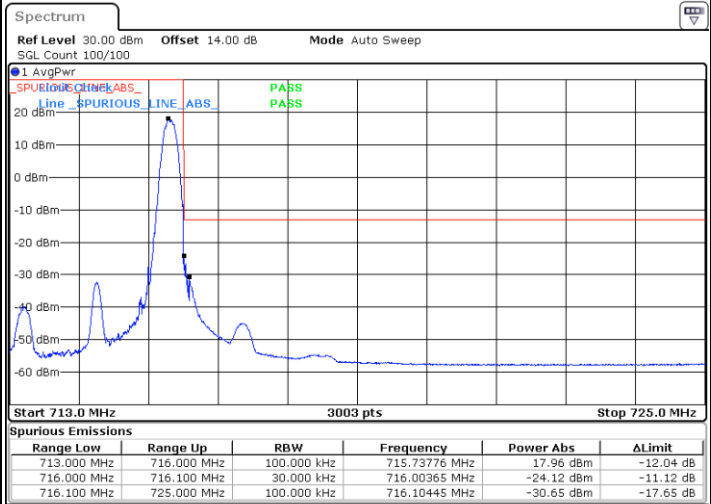
LTE Band 12 / 3MHz / 64QAM

Lowest Band Edge / 1 RB



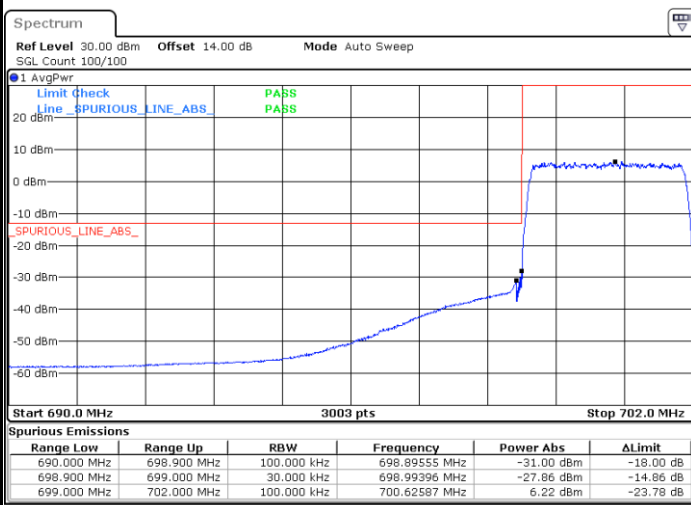
Date: 30.DEC.2023 00:58:56

Highest Band Edge / 1 RB



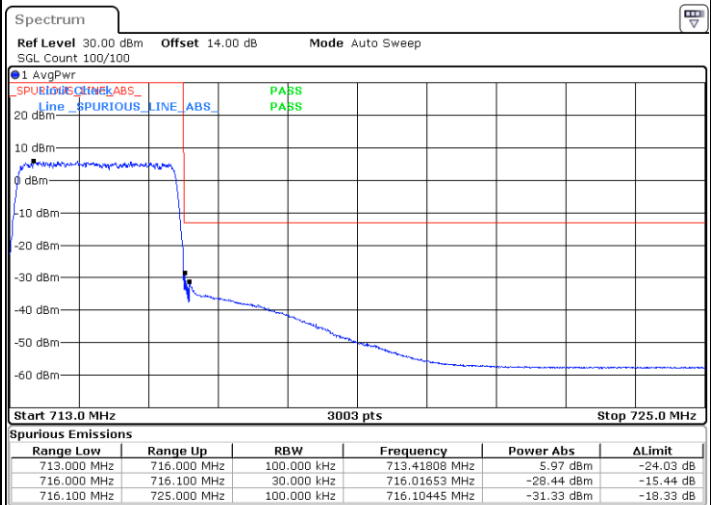
Date: 30.DEC.2023 01:08:48

Lowest Band Edge / Full RB



Date: 30.DEC.2023 01:02:01

Highest Band Edge / Full RB

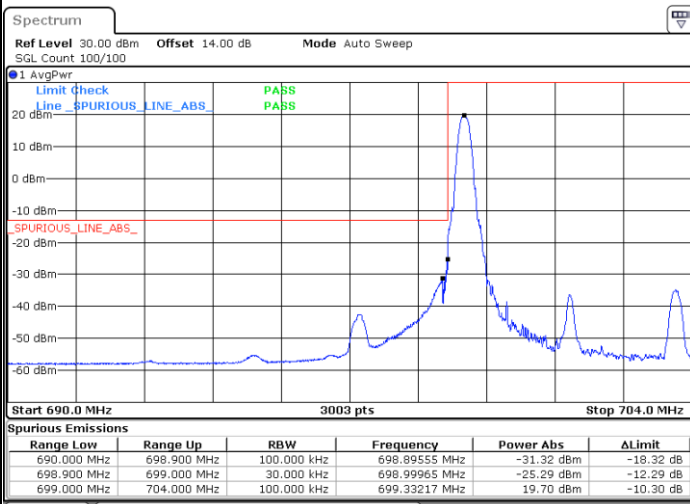


Date: 30.DEC.2023 01:11:53



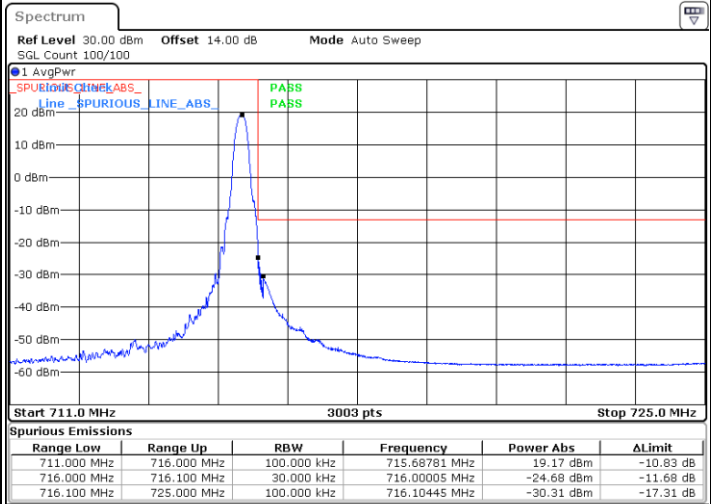
LTE Band 12 / 5MHz / QPSK

Lowest Band Edge / 1RB



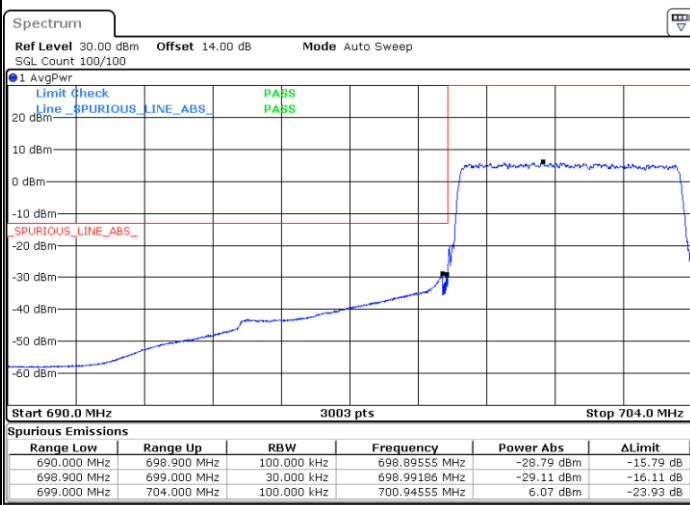
Date: 30.DEC.2023 01:26:17

Highest Band Edge / 1RB



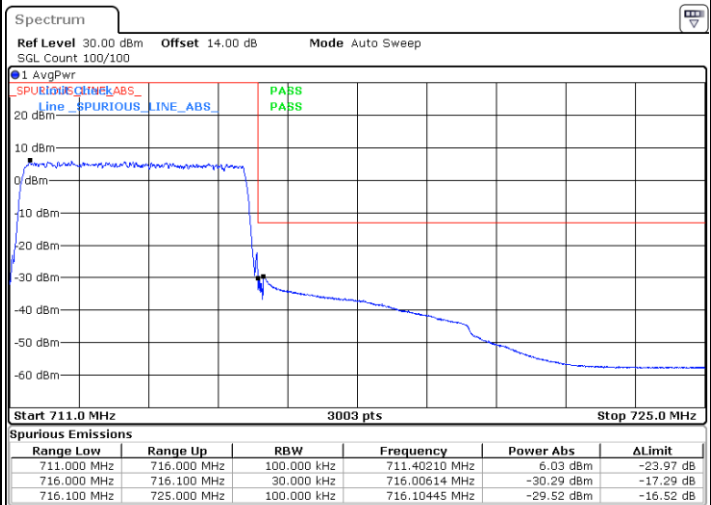
Date: 30.DEC.2023 01:36:09

Lowest Band Edge / Full RB



Date: 30.DEC.2023 01:29:22

Highest Band Edge / Full RB

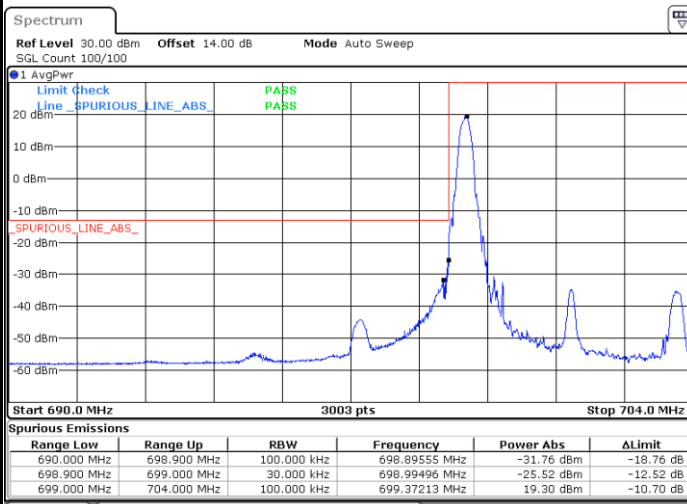


Date: 30.DEC.2023 01:39:14



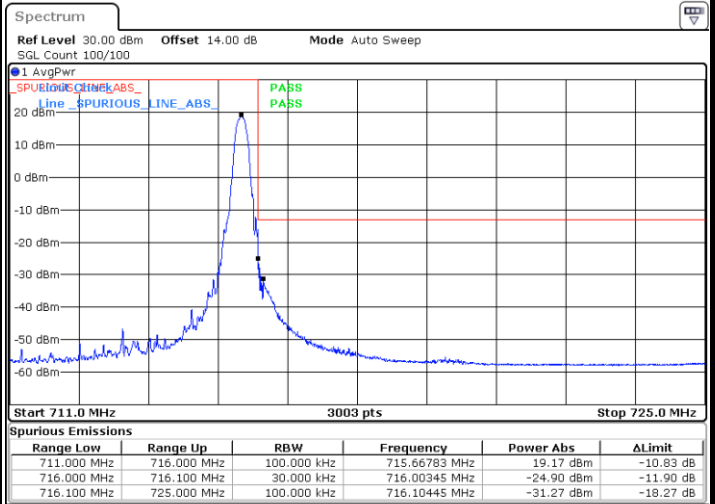
LTE Band 12 / 5MHz / 16QAM

Lowest Band Edge / 1 RB



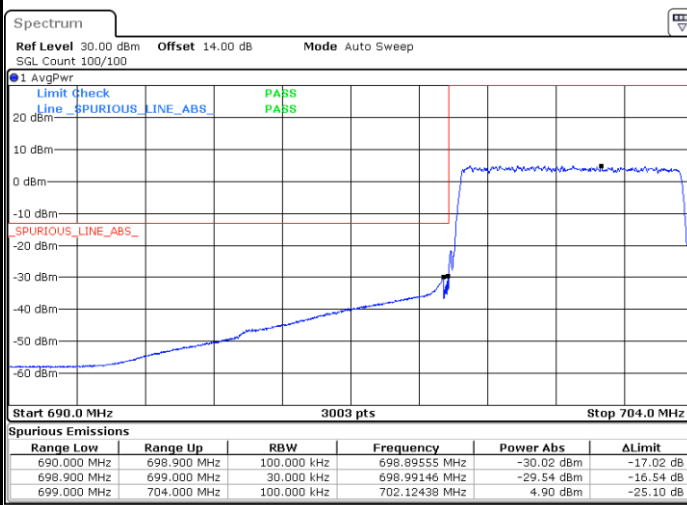
Date: 30.DEC.2023 01:27:19

Highest Band Edge / 1 RB



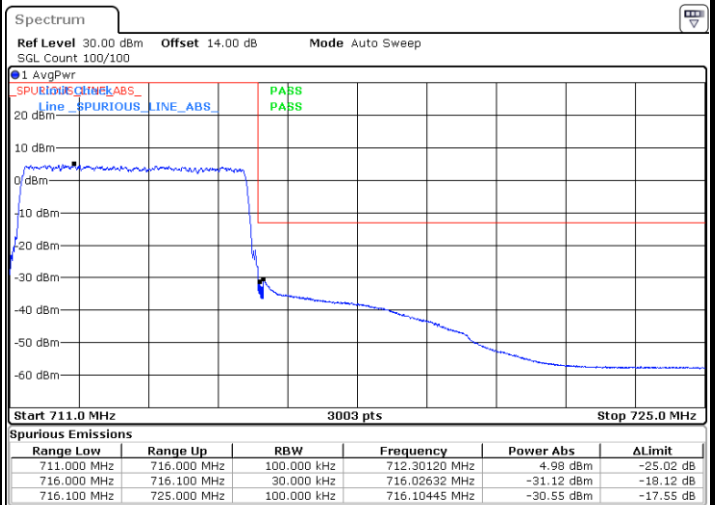
Date: 30.DEC.2023 01:37:10

Lowest Band Edge / Full RB



Date: 30.DEC.2023 01:30:23

Highest Band Edge / Full RB

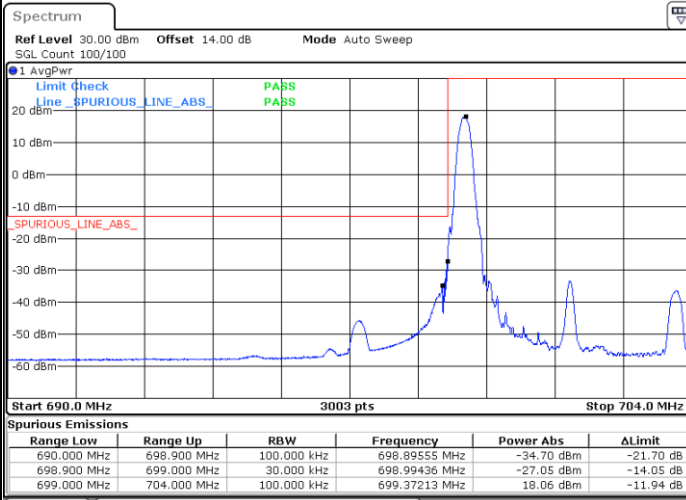


Date: 30.DEC.2023 01:40:16



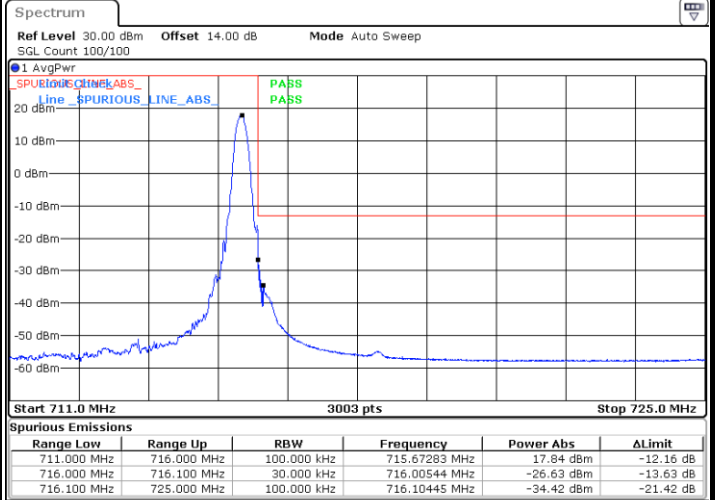
LTE Band 12 / 5MHz / 64QAM

Lowest Band Edge / 1 RB



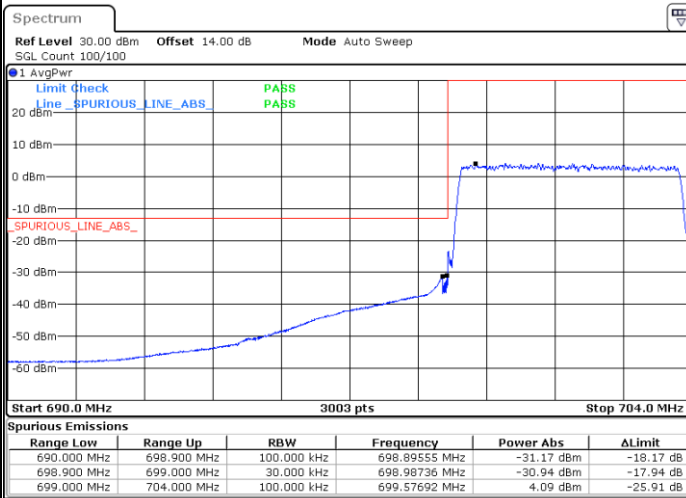
Date: 30.DEC.2023 01:28:20

Highest Band Edge / 1 RB



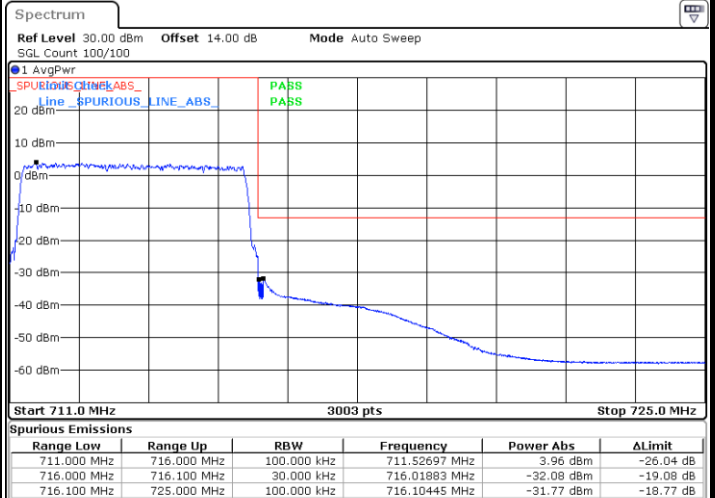
Date: 30.DEC.2023 01:38:12

Lowest Band Edge / Full RB



Date: 30.DEC.2023 01:31:25

Highest Band Edge / Full RB

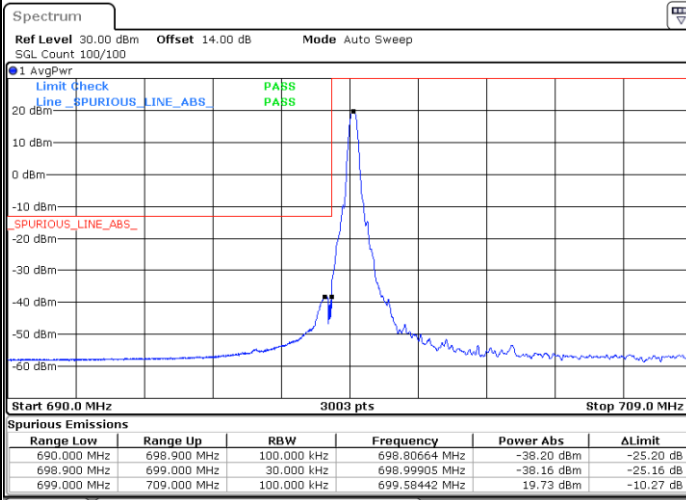


Date: 30.DEC.2023 01:41:17



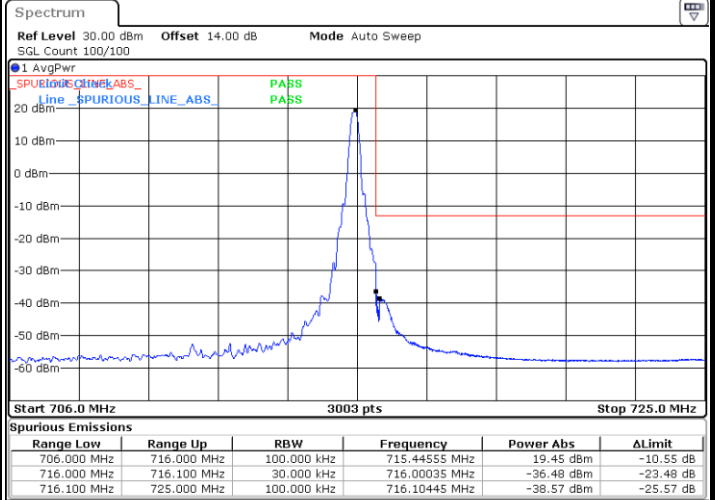
LTE Band 12 / 10MHz / QPSK

Lowest Band Edge / 1RB



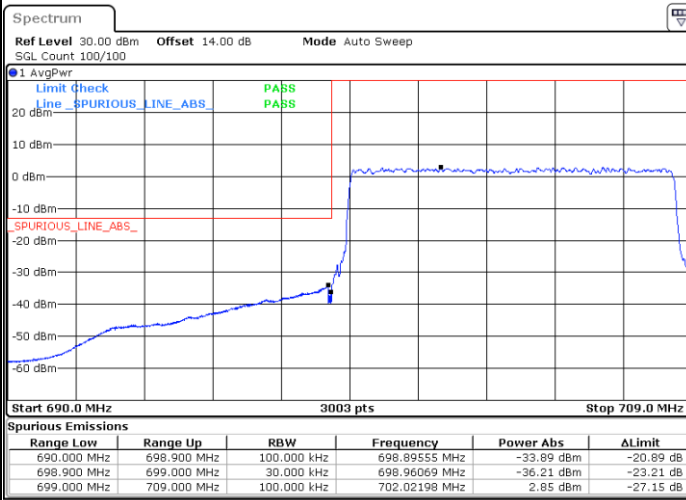
Date: 30.DEC.2023 03:15:52

Highest Band Edge / 1RB



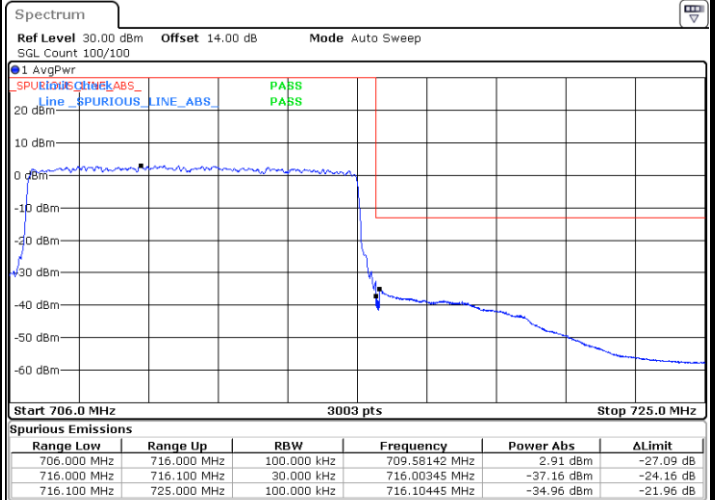
Date: 30.DEC.2023 03:25:45

Lowest Band Edge / Full RB



Date: 30.DEC.2023 03:18:57

Highest Band Edge / Full RB

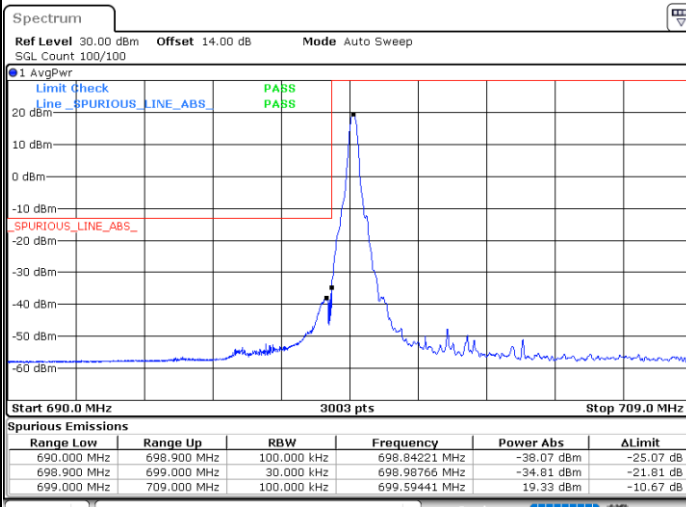


Date: 30.DEC.2023 03:28:50



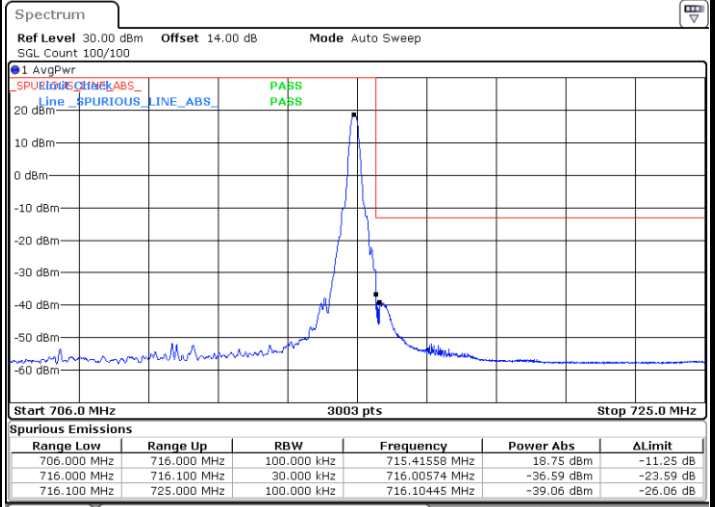
LTE Band 12 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



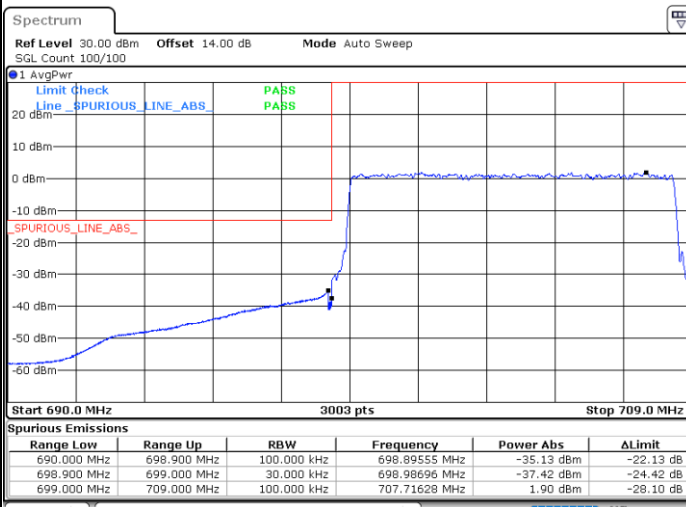
Date: 30.DEC.2023 03:16:54

Highest Band Edge / 1 RB



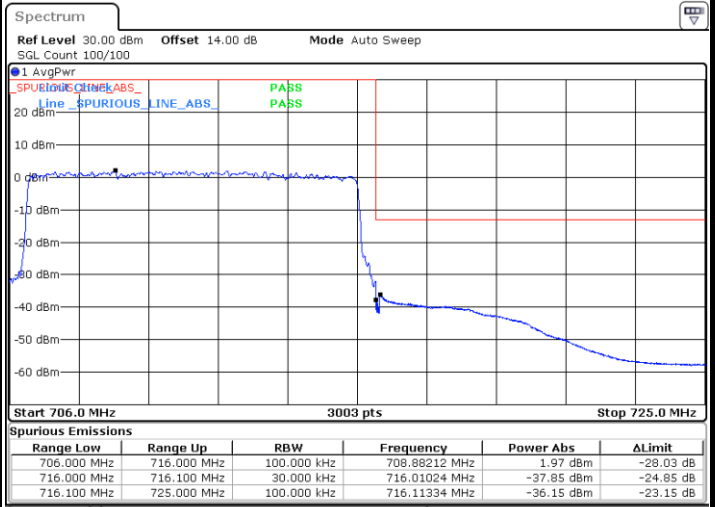
Date: 30.DEC.2023 03:26:47

Lowest Band Edge / Full RB



Date: 30.DEC.2023 03:19:59

Highest Band Edge / Full RB

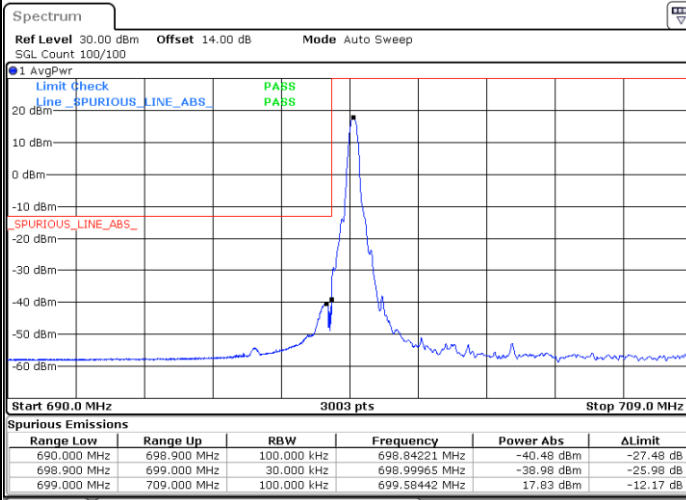


Date: 30.DEC.2023 03:29:52



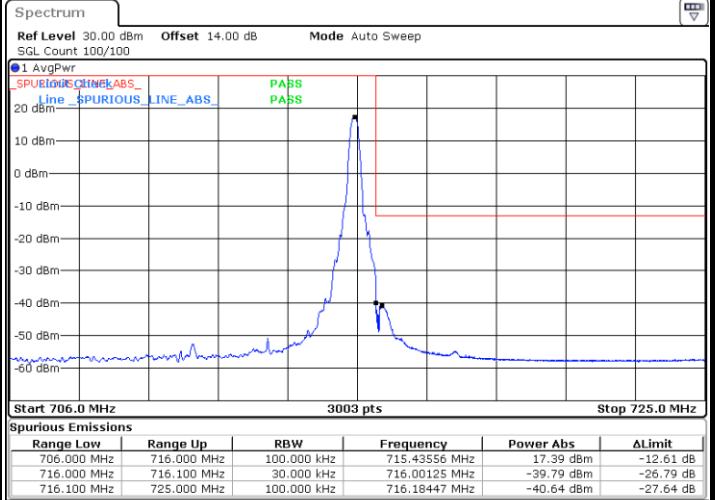
LTE Band 12 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



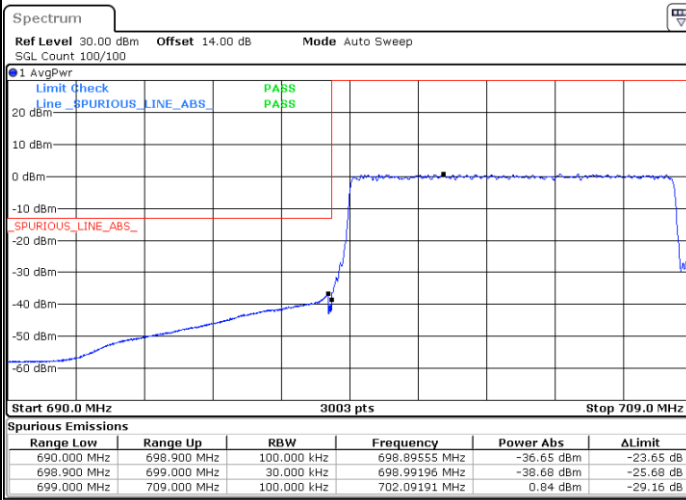
Date: 30.DEC.2023 03:17:55

Highest Band Edge / 1 RB



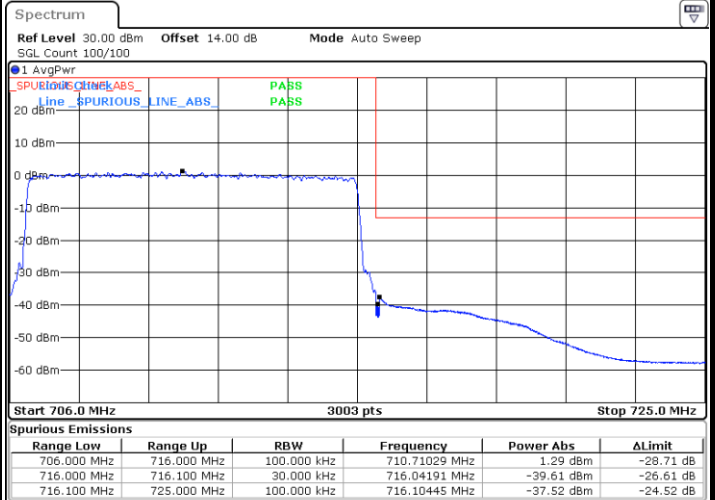
Date: 30.DEC.2023 03:27:49

Lowest Band Edge / Full RB



Date: 30.DEC.2023 03:21:01

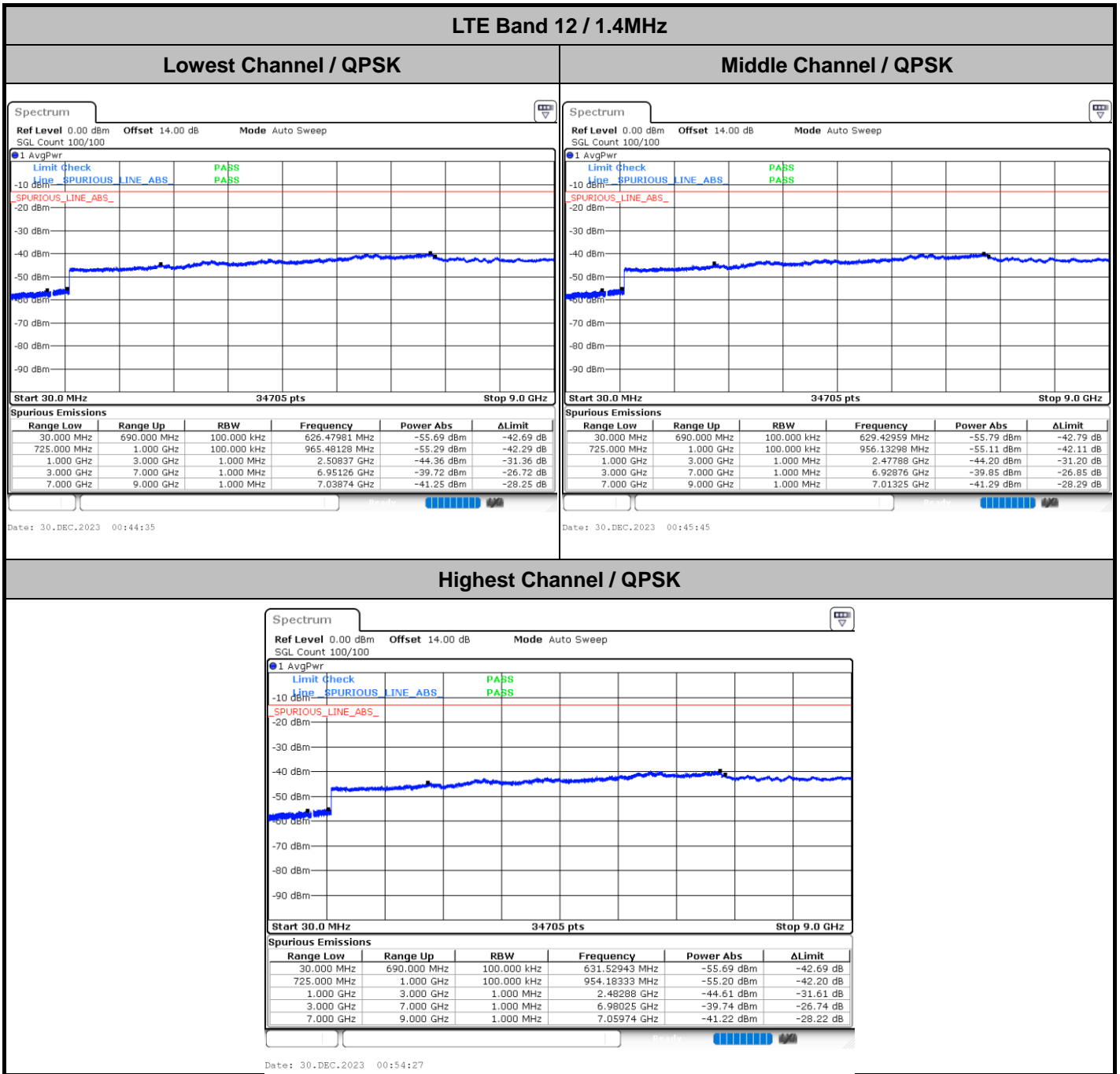
Highest Band Edge / Full RB



Date: 30.DEC.2023 03:30:54



Conducted Spurious Emission

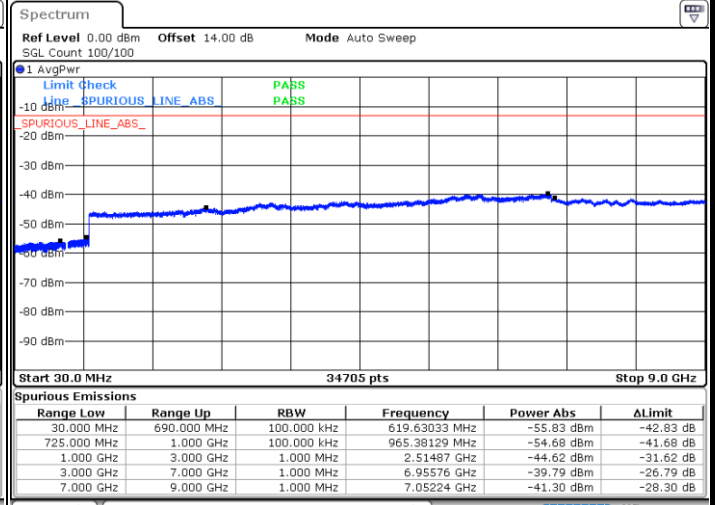
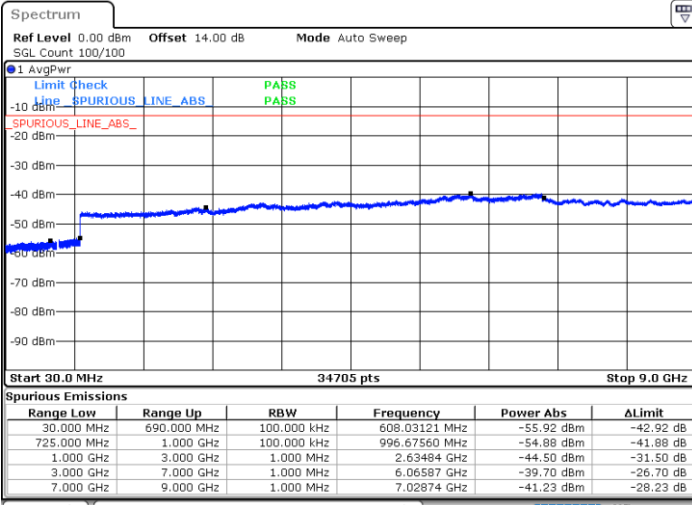




LTE Band 12 / 3MHz

Lowest Channel / QPSK

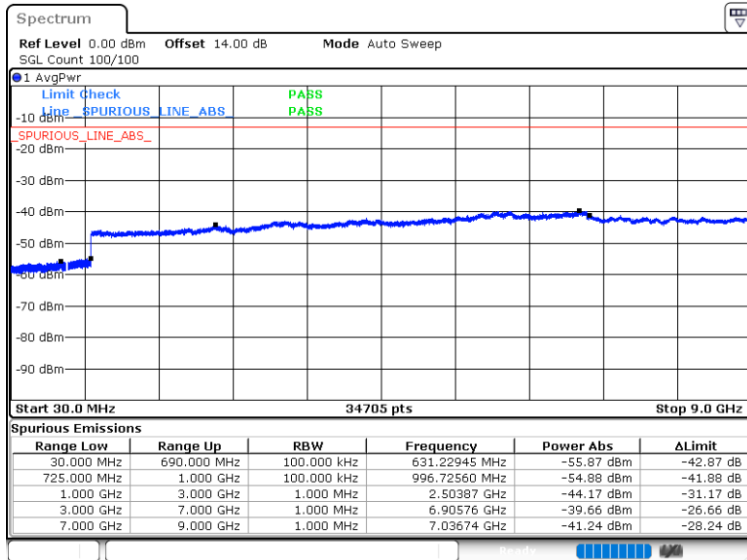
Middle Channel / QPSK



Date: 30.DEC.2023 01:03:12

Date: 30.DEC.2023 01:04:22

Highest Channel / QPSK



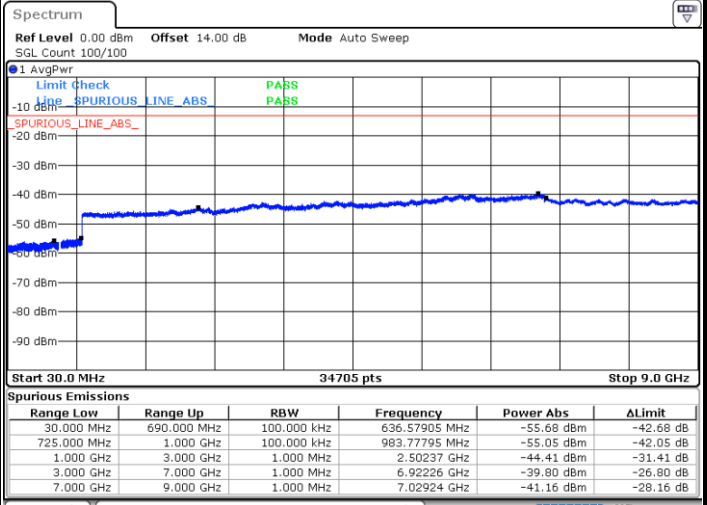
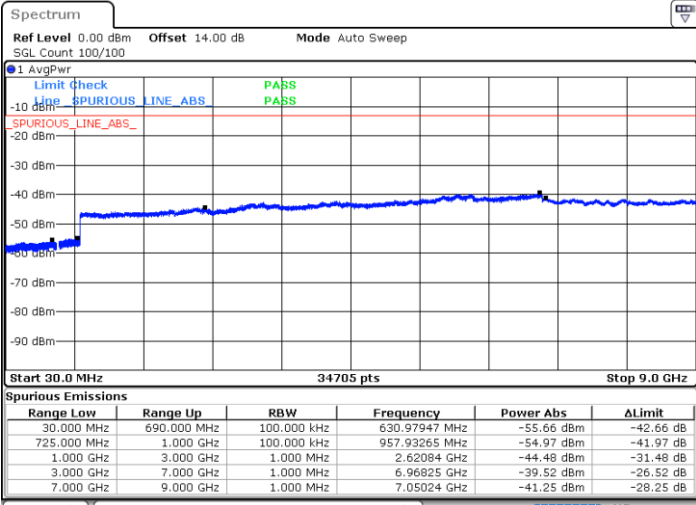
Date: 30.DEC.2023 01:13:04



LTE Band 12 / 5MHz

Lowest Channel / QPSK

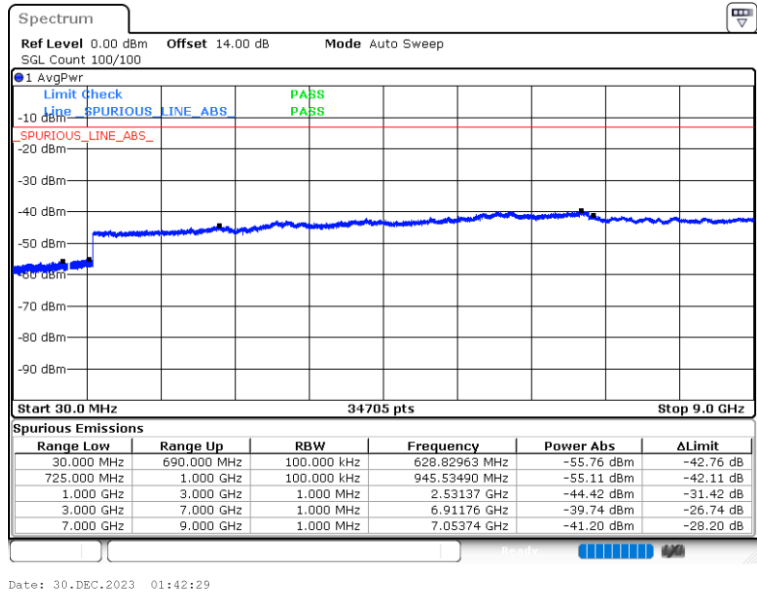
Middle Channel / QPSK



Date: 30.DEC.2023 01:32:36

Date: 30.DEC.2023 01:33:46

Highest Channel / QPSK



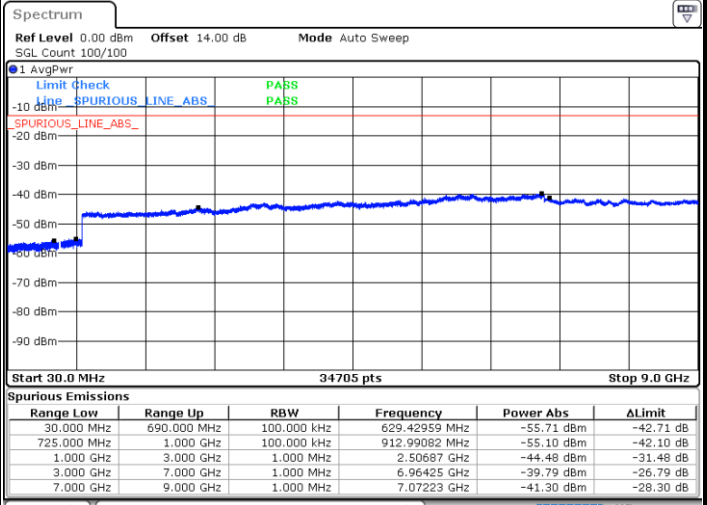
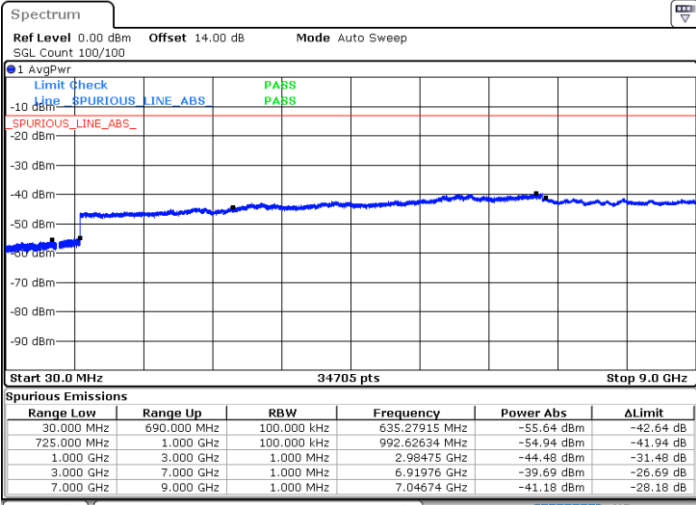
Date: 30.DEC.2023 01:42:29



LTE Band 12 / 10MHz

Lowest Channel / QPSK

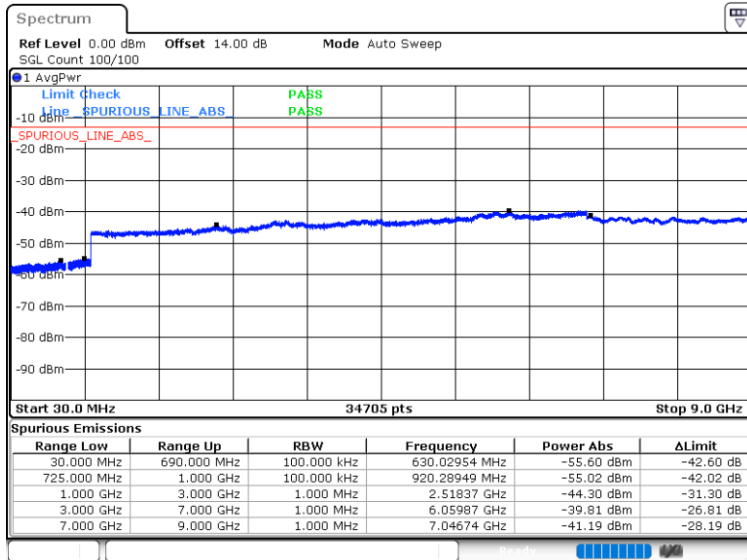
Middle Channel / QPSK



Date: 30.DEC.2023 03:22:12

Date: 30.DEC.2023 03:23:23

Highest Channel / QPSK



Date: 30.DEC.2023 03:32:05



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	0.0004	PASS
40	Normal Voltage	0.0007	
30	Normal Voltage	0.0005	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0017	
0	Normal Voltage	0.0009	
-10	Normal Voltage	0.0010	
-20	Normal Voltage	0.0016	
-30	Normal Voltage	0.0002	
20	Maximum Voltage	0.0001	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0004	

Note:

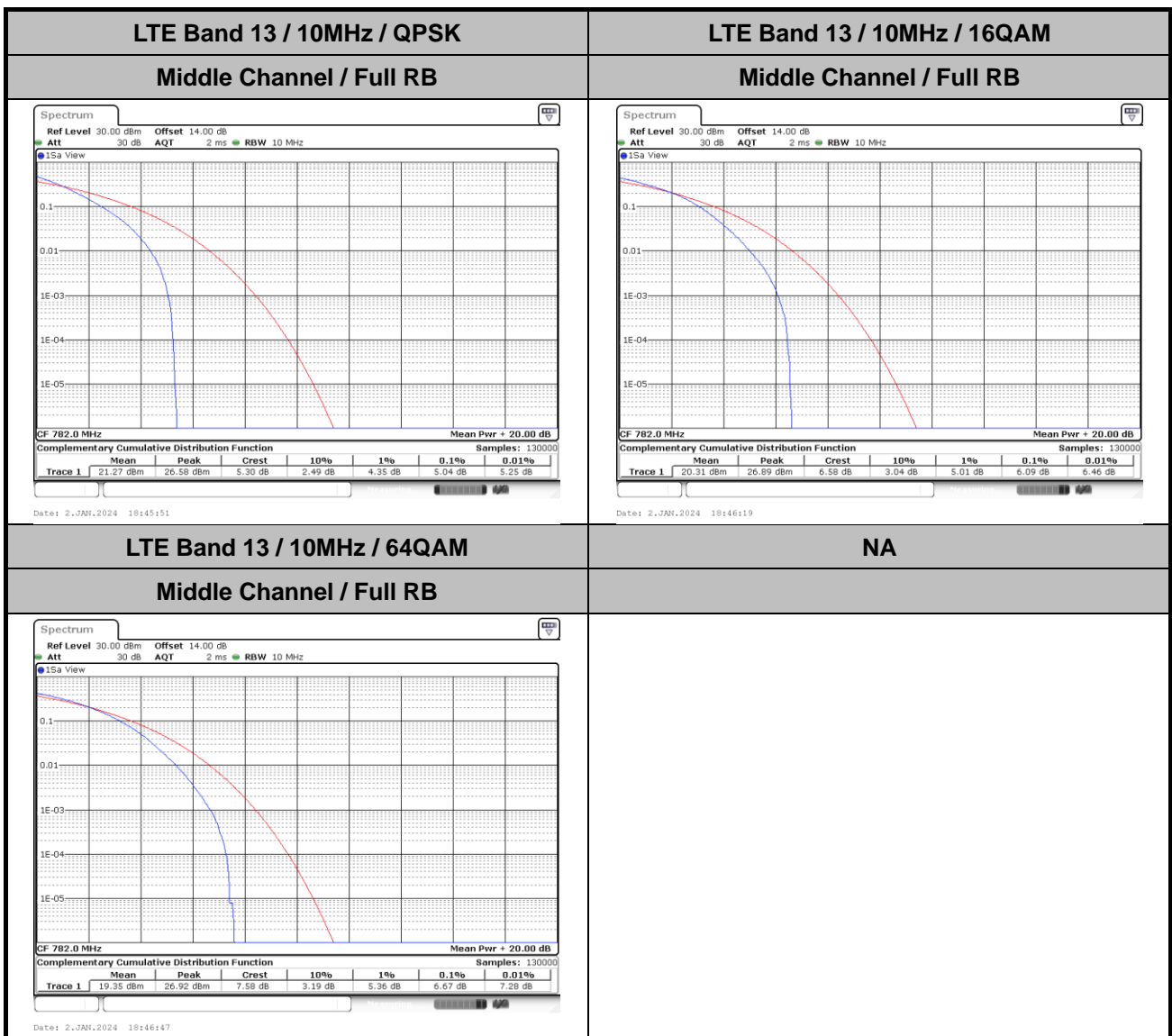
1. Normal Voltage = 3.89 V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage = 4.48 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 13

Peak-to-Average Ratio

Mode	LTE Band 13 / 10MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	5.04	6.09	6.67	PASS





26dB Bandwidth

Mode		LTE Band 13 : 26dB BW(MHz)										
BW	-	-	-	-	5MHz		10MHz		-	-	-	-
Mod.	-	-	-	-	QPSK	16QAM	QPSK	16QAM	-	-	-	-
Middle CH	-	-	-	-	4.90	4.99	9.85	9.87	-	-	-	-

