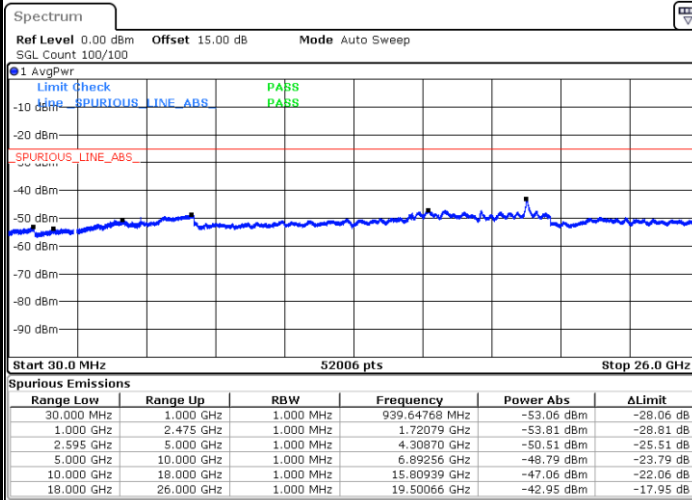




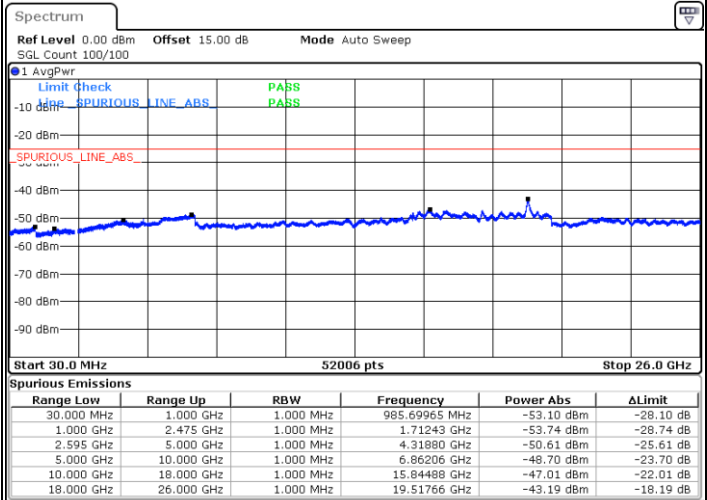
LTE Band 7 / 15MHz

Lowest Channel / QPSK



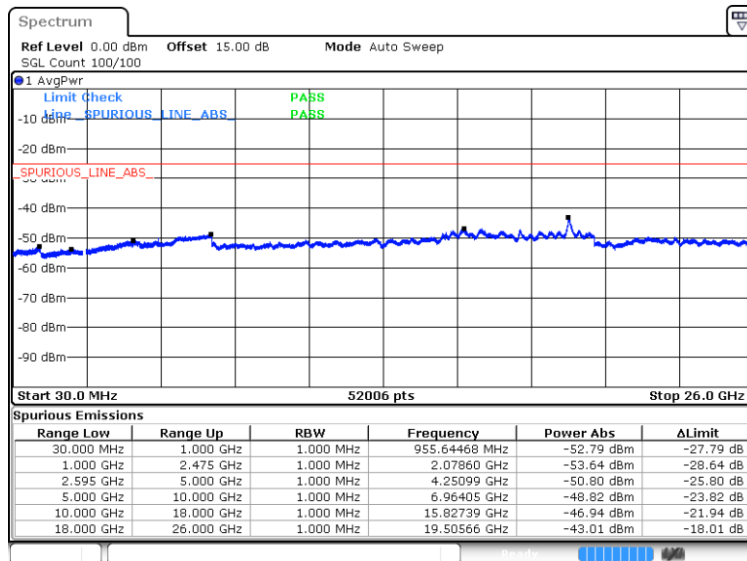
Date: 28 MAR 2024 09:26:47

Middle Channel / QPSK



Date: 28 MAR 2024 09:27:57

Highest Channel / QPSK

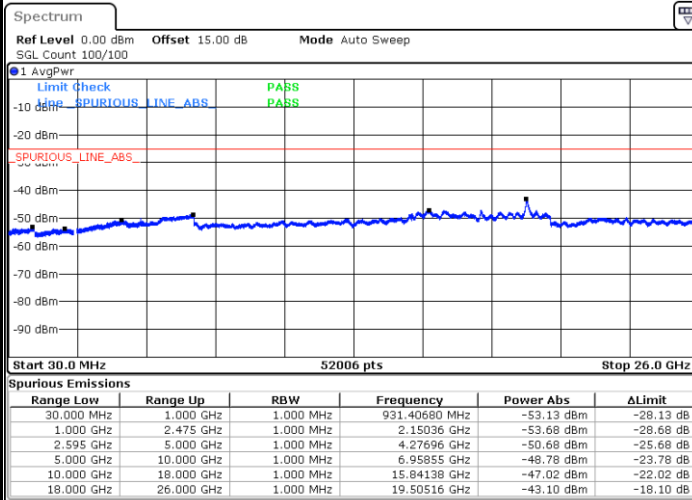


Date: 28 MAR 2024 09:33:50



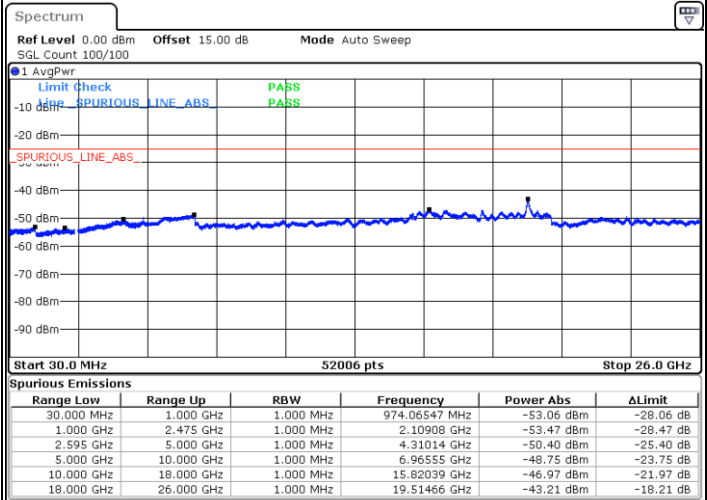
LTE Band 7 / 20MHz

Lowest Channel / QPSK



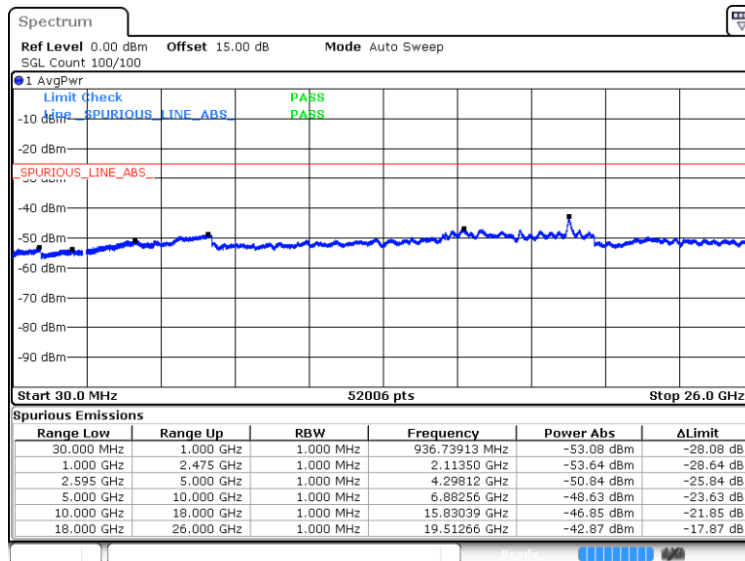
Date: 28 MAR 2024 09:39:09

Middle Channel / QPSK



Date: 28 MAR 2024 09:40:19

Highest Channel / QPSK



Date: 28 MAR 2024 09:46:13

**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	0.0006	PASS
40	Normal Voltage	0.0002	
30	Normal Voltage	0.0001	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0004	
0	Normal Voltage	0.0007	
-10	Normal Voltage	0.0001	
-20	Normal Voltage	0.0005	
-30	Normal Voltage	0.0002	
20	Maximum Voltage	0.0002	
20	Normal Voltage	0.0000	
20	Minimum Voltage	0.0009	

Note:

1. Normal Voltage = 3.3 V. ; Minimum Voltage = 3.14 V. ; Maximum Voltage = 4.4 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 12

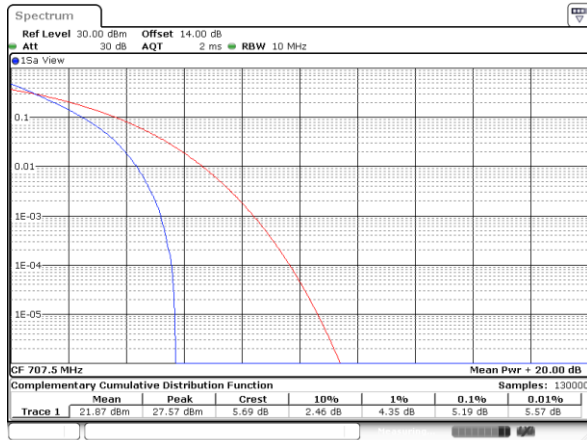
Peak-to-Average Ratio

Mode	LTE Band 12 / 10MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	5.19	6.00	6.43	PASS



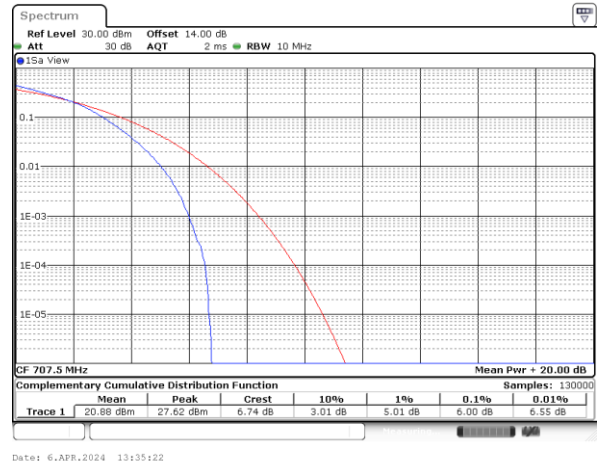
LTE Band 12 / 10MHz / QPSK

Middle Channel / Full RB



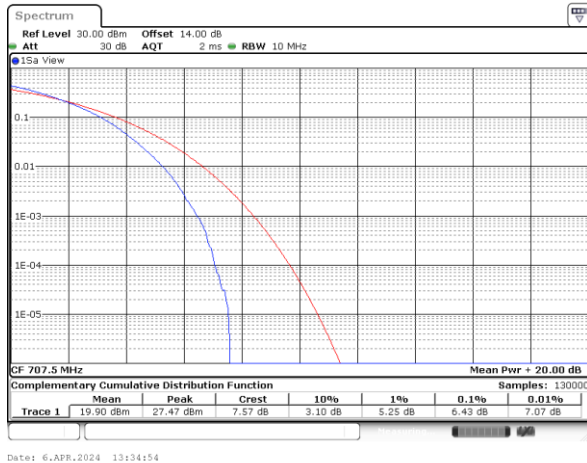
LTE Band 12 / 10MHz / 16QAM

Middle Channel / Full RB



LTE Band 12 / 10MHz / 64QAM

Middle Channel / Full RB





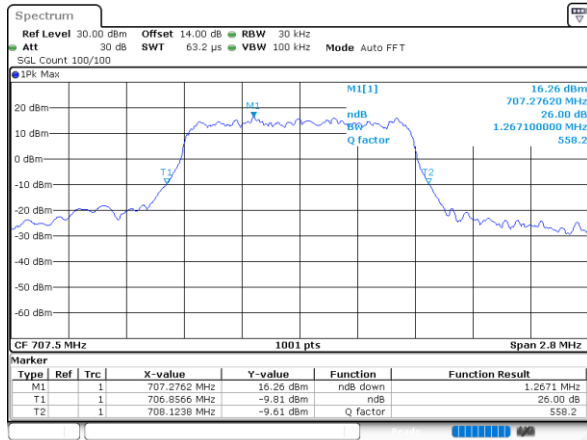
26dB Bandwidth

Mode	LTE Band 12 : 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	1.27	1.28	2.96	3.00	4.90	4.86	9.79	9.73	-	-	-	-

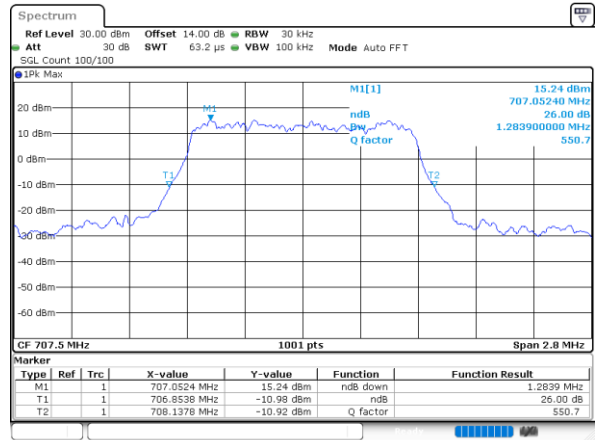


LTE Band 12

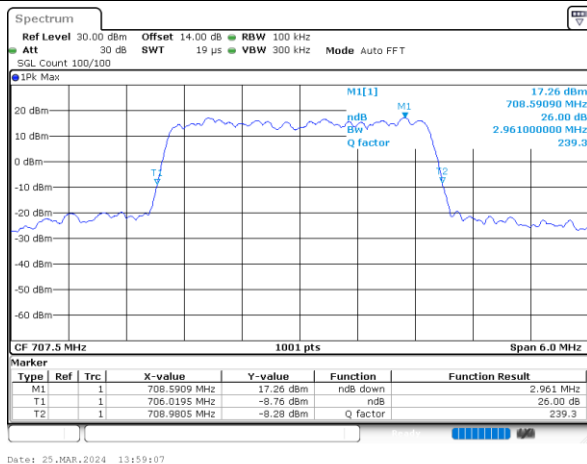
Middle Channel / 1.4MHz / QPSK



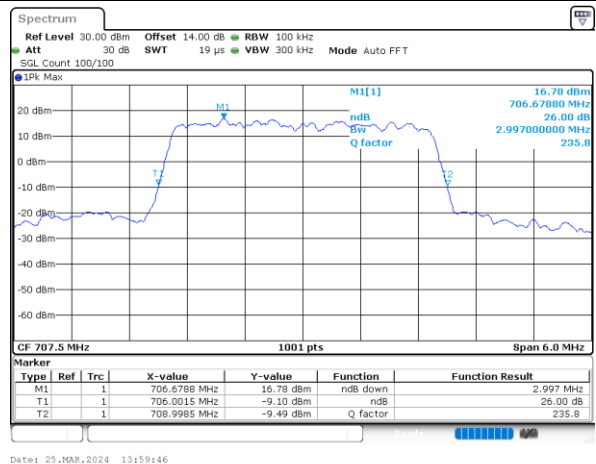
Middle Channel / 1.4MHz / 16QAM



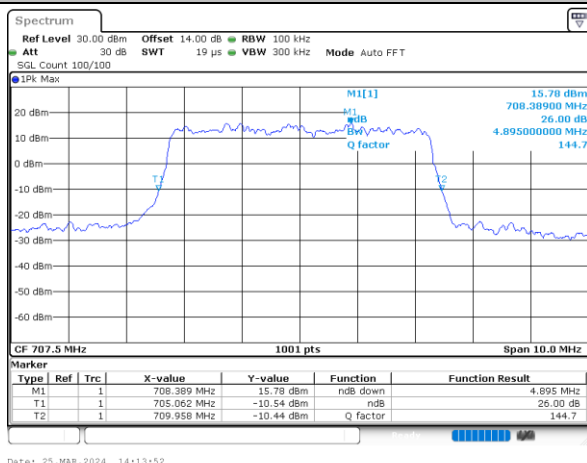
Middle Channel / 3MHz / QPSK



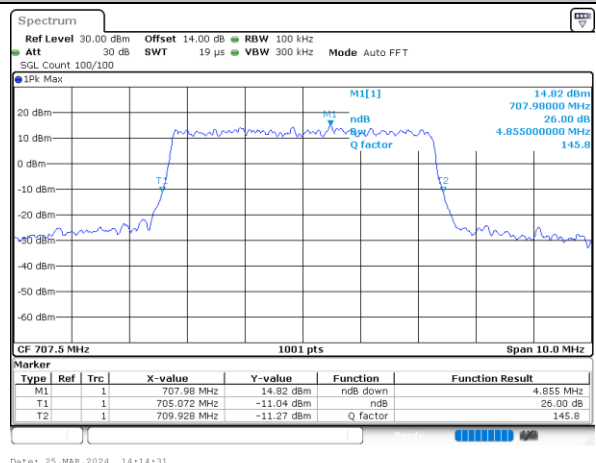
Middle Channel / 3MHz / 16QAM



Middle Channel / 5MHz / QPSK



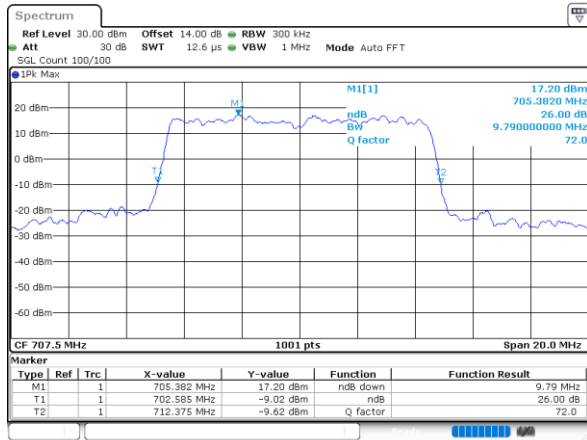
Middle Channel / 5MHz / 16QAM





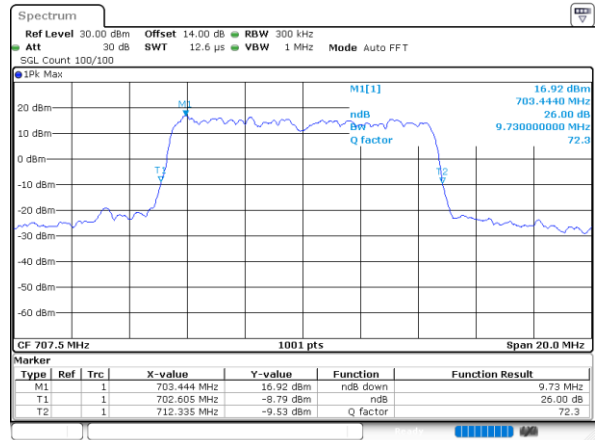
LTE Band 12

Middle Channel / 10MHz / QPSK



Date: 6.APR.2024 13:27:24

Middle Channel / 10MHz / 16QAM



Date: 6.APR.2024 13:28:04



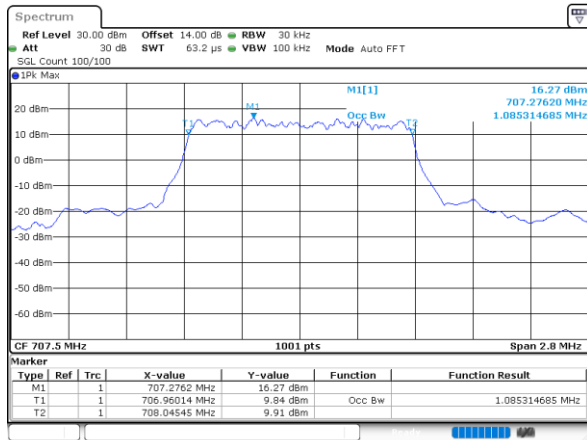
Occupied Bandwidth

Mode	LTE Band 12 : 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	1.09	2.72	2.72	4.48	4.48	9.01	9.01	-	-	-	-

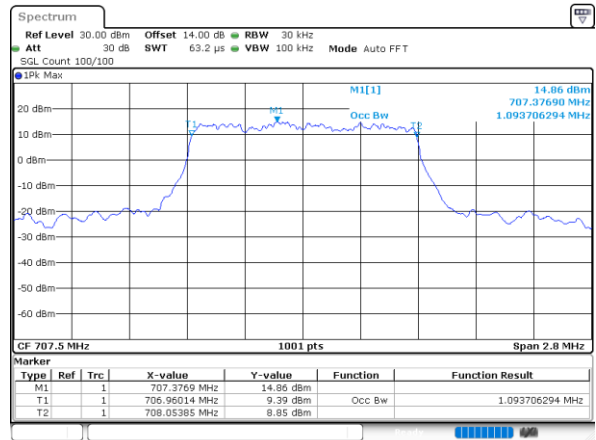


LTE Band 12

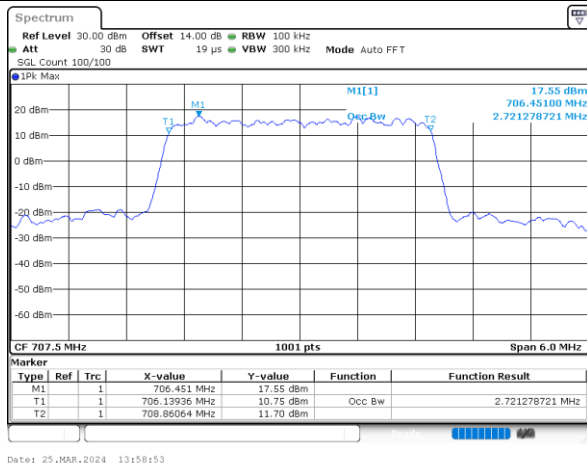
Middle Channel / 1.4MHz / QPSK



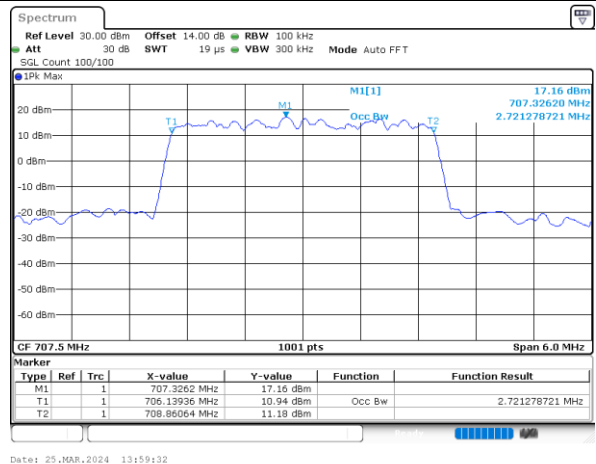
Middle Channel / 1.4MHz / 16QAM



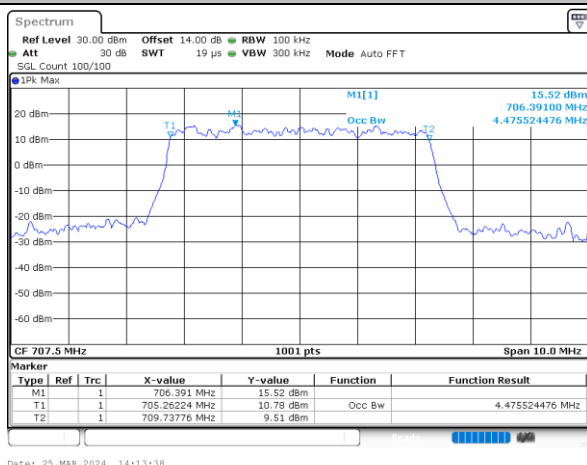
Middle Channel / 3MHz / QPSK



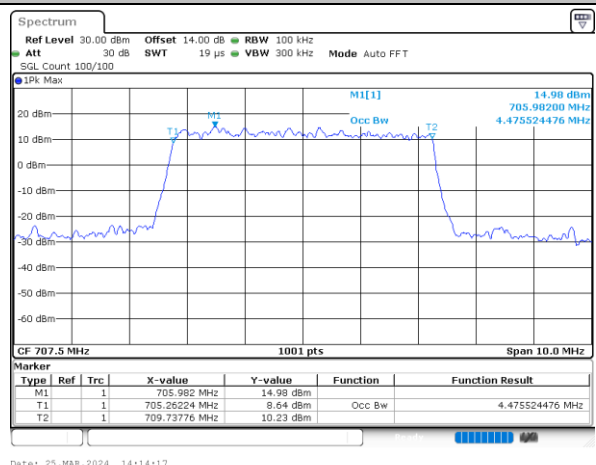
Middle Channel / 3MHz / 16QAM



Middle Channel / 5MHz / QPSK



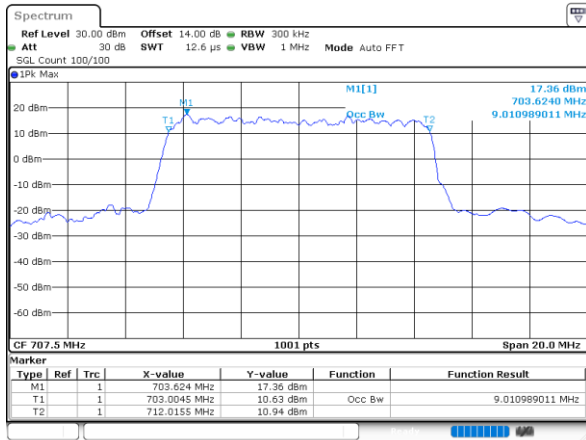
Middle Channel / 5MHz / 16QAM



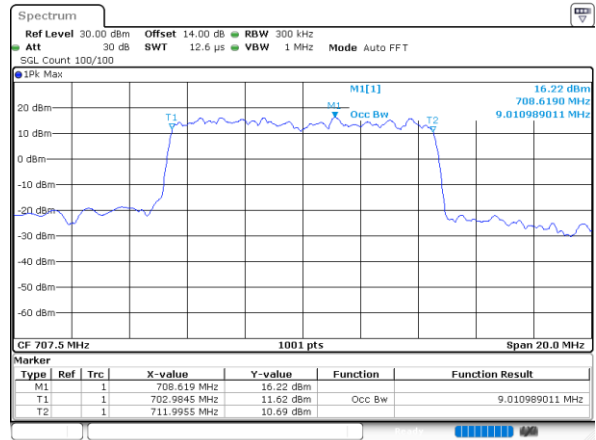


LTE Band 12

Middle Channel / 10MHz / QPSK



Middle Channel / 10MHz / 16QAM

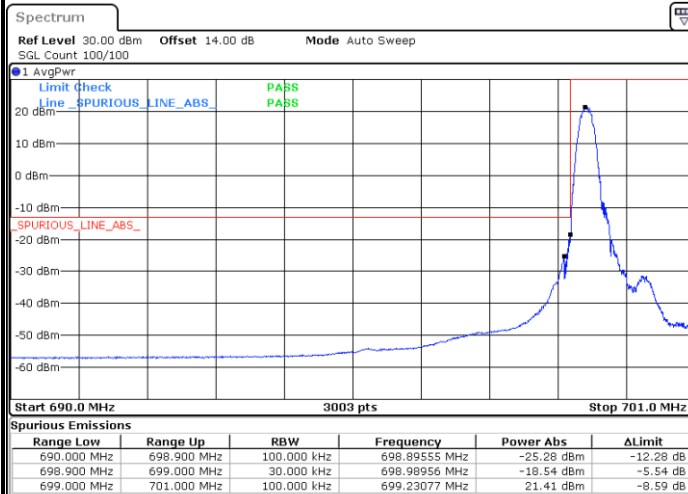




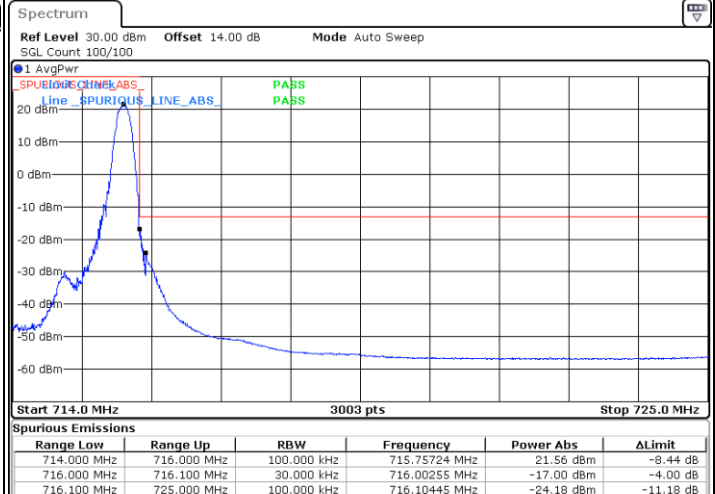
Conducted Band Edge

LTE Band 12 / 1.4MHz / QPSK

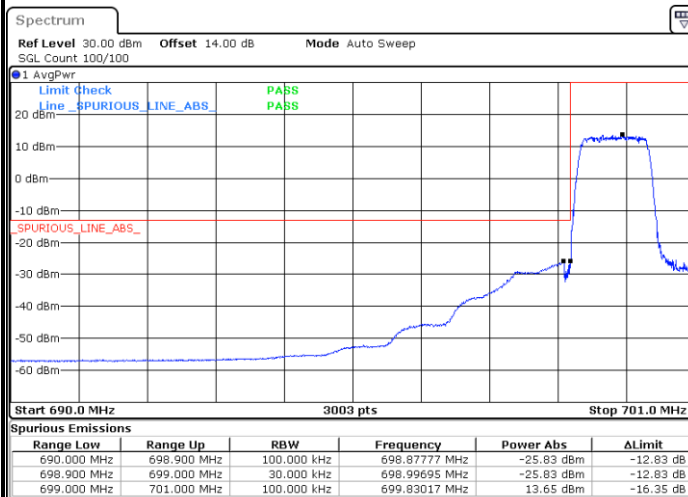
Lowest Band Edge / 1RB



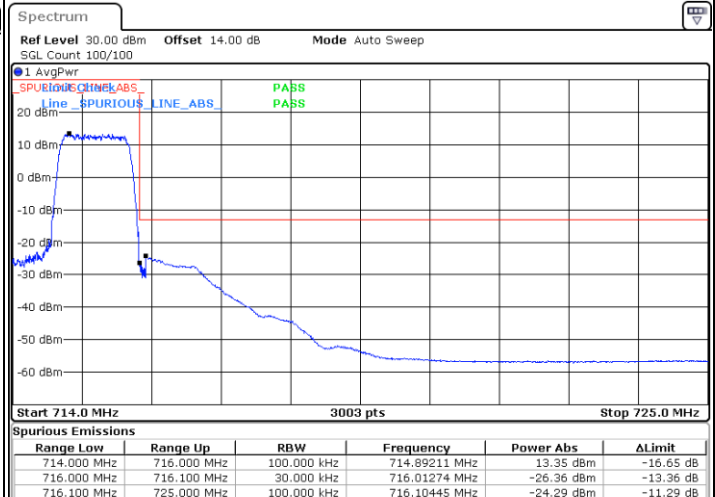
Highest Band Edge / 1RB



Lowest Band Edge / Full RB



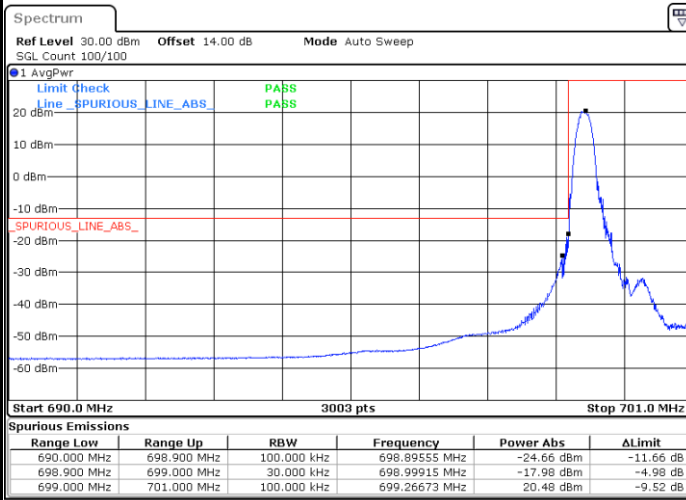
Highest Band Edge / Full RB



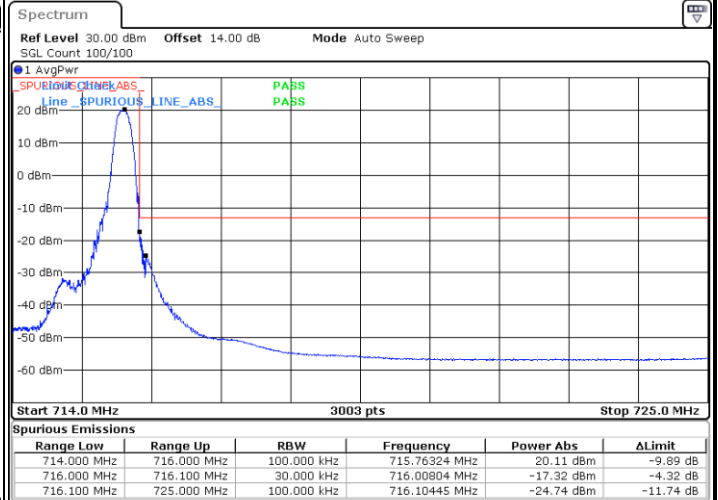


LTE Band 12 / 1.4MHz / 16QAM

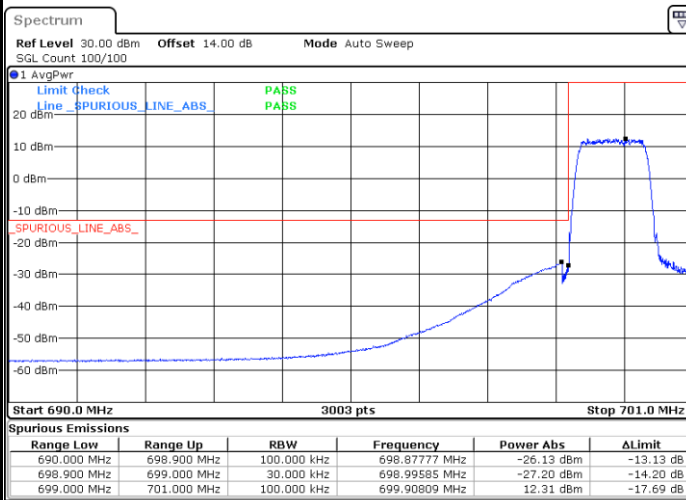
Lowest Band Edge / 1 RB



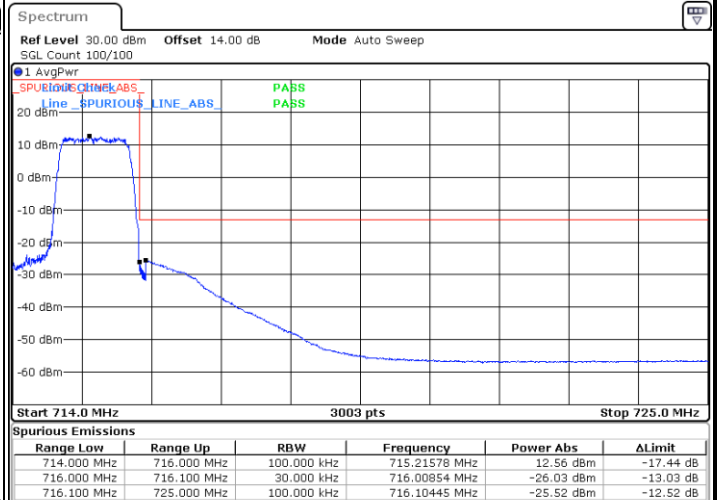
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



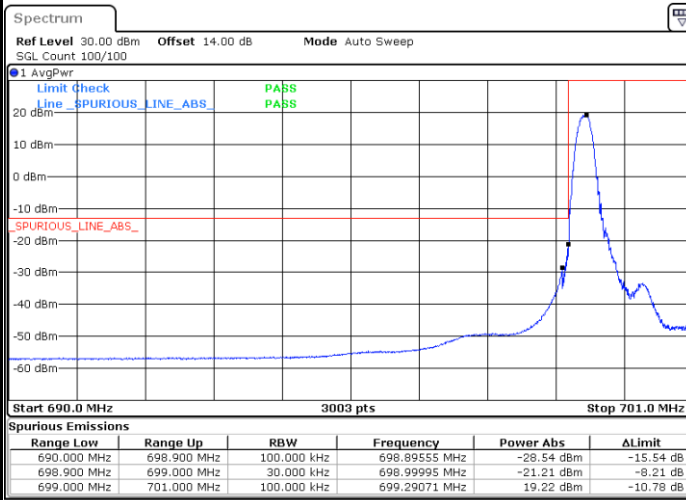
Highest Band Edge / Full RB





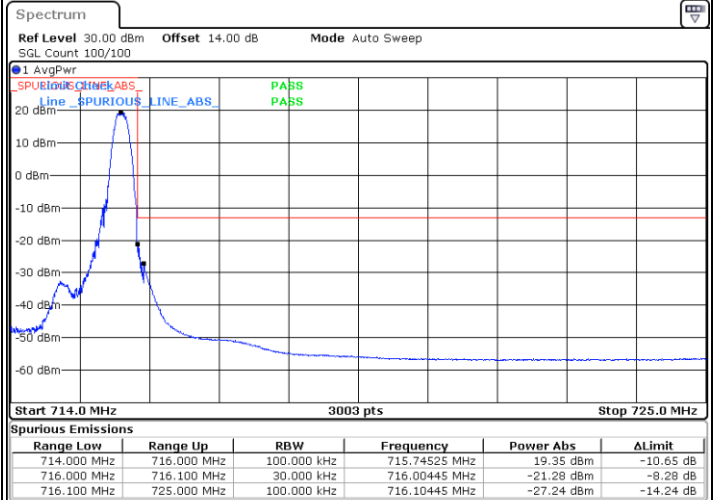
LTE Band 12 / 1.4MHz / 64QAM

Lowest Band Edge / 1 RB



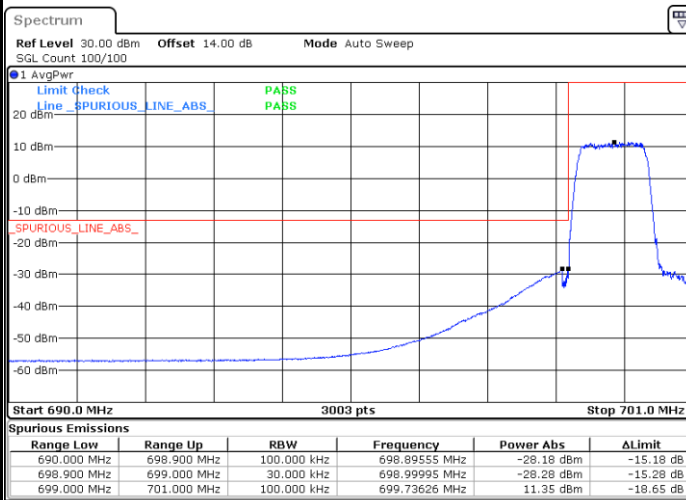
Date: 25.MAR.2024 13:39:28

Highest Band Edge / 1 RB



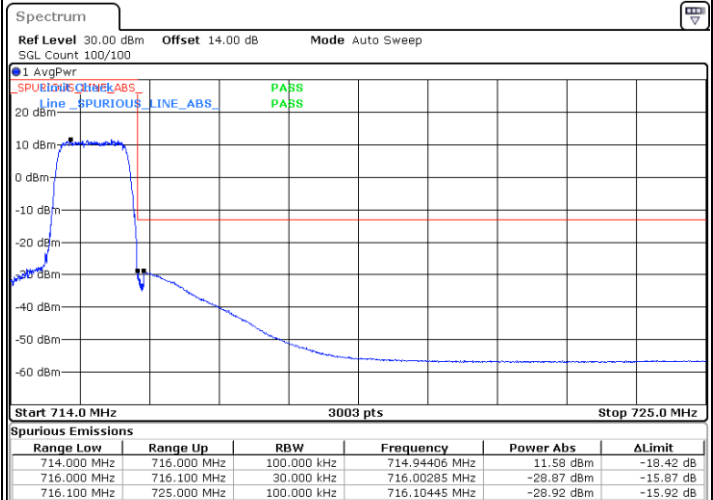
Date: 25.MAR.2024 13:47:19

Lowest Band Edge / Full RB



Date: 25.MAR.2024 13:41:45

Highest Band Edge / Full RB

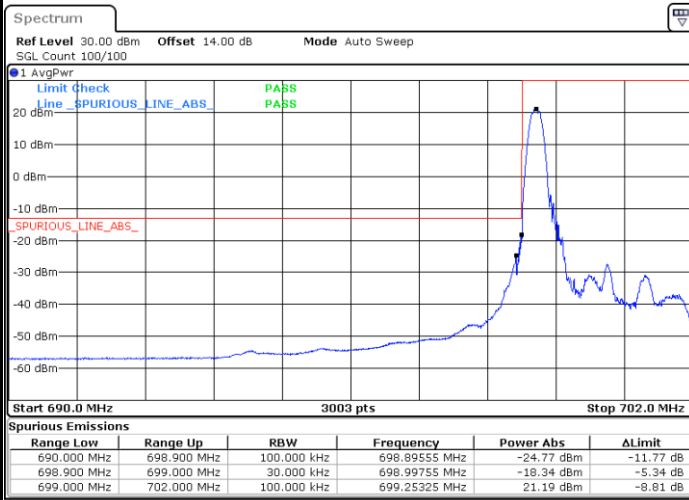


Date: 25.MAR.2024 13:49:36

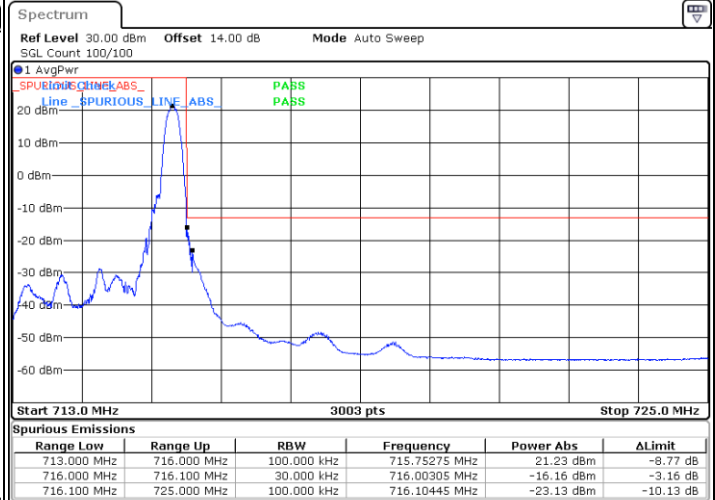


LTE Band 12 / 3MHz / QPSK

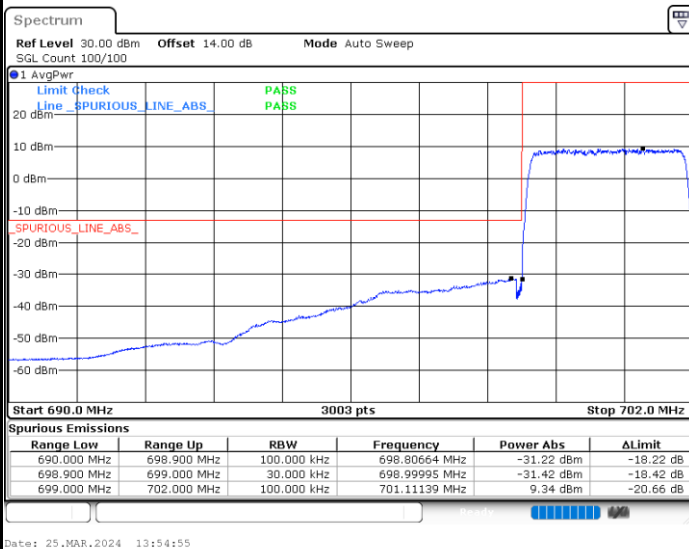
Lowest Band Edge / 1RB



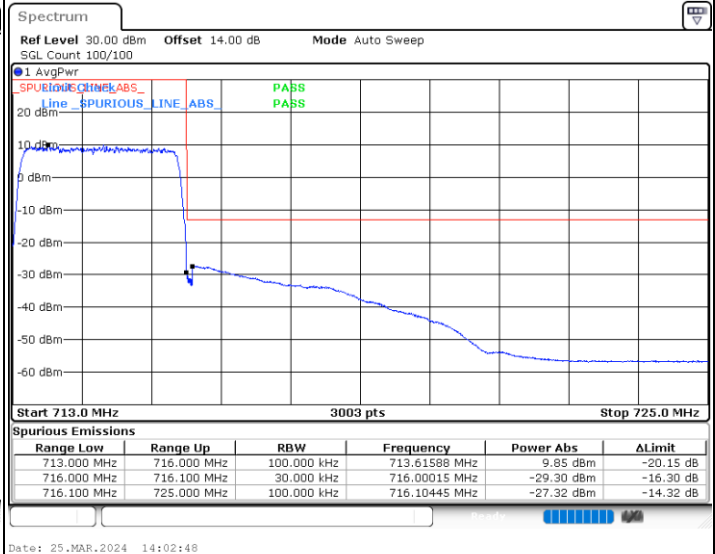
Highest Band Edge / 1RB



Lowest Band Edge / Full RB



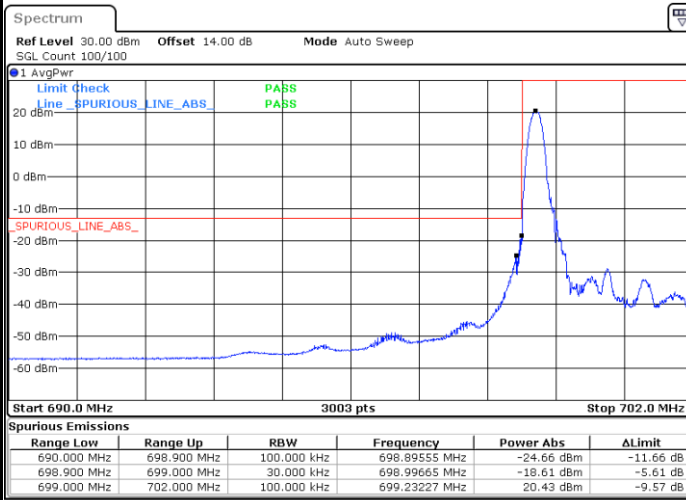
Highest Band Edge / Full RB





LTE Band 12 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



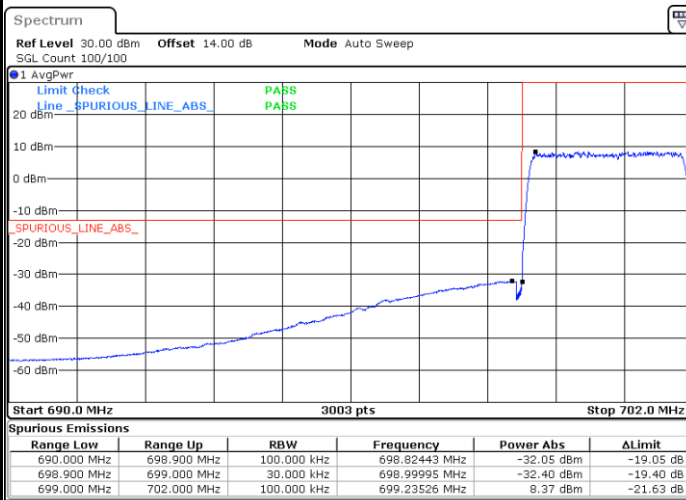
Date: 25.MAR.2024 13:53:23

Highest Band Edge / 1 RB



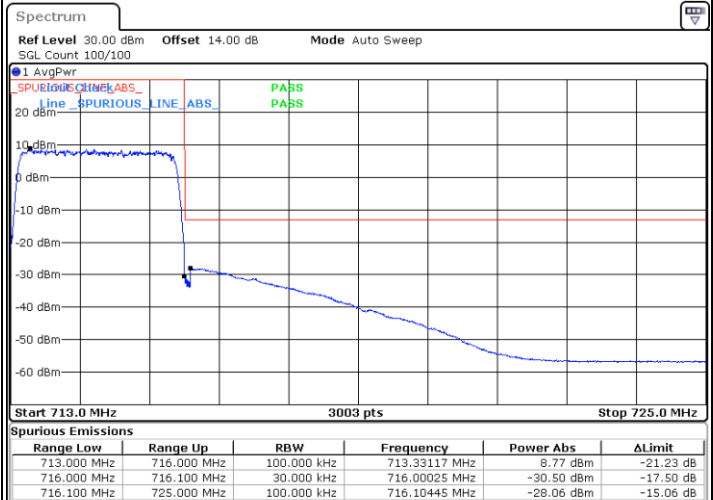
Date: 25.MAR.2024 14:01:16

Lowest Band Edge / Full RB



Date: 25.MAR.2024 13:55:41

Highest Band Edge / Full RB

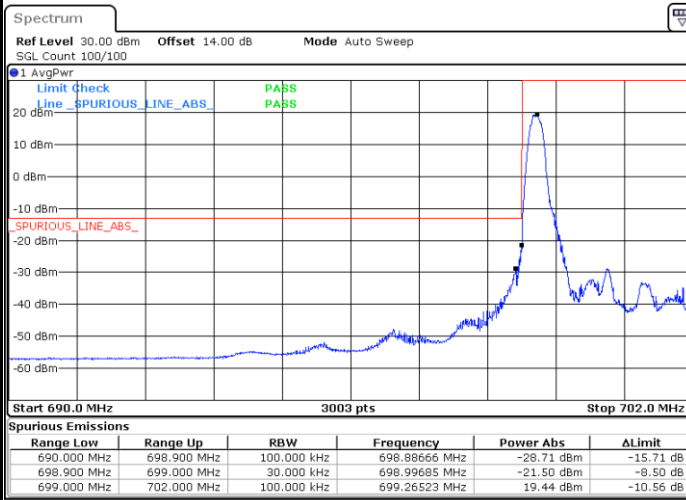


Date: 25.MAR.2024 14:03:34

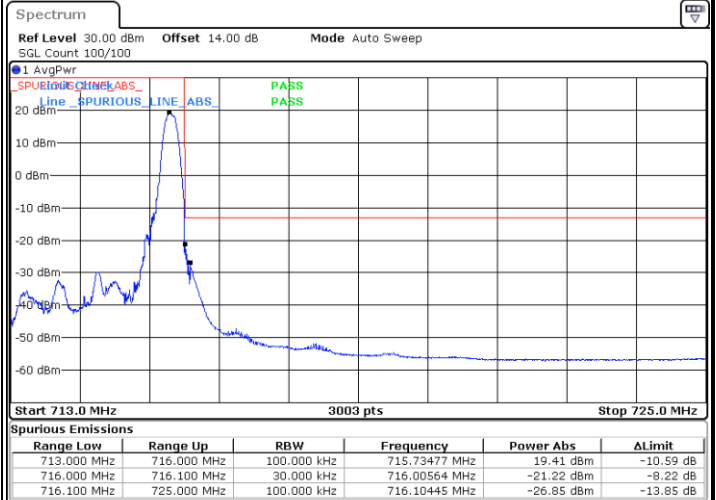


LTE Band 12 / 3MHz / 64QAM

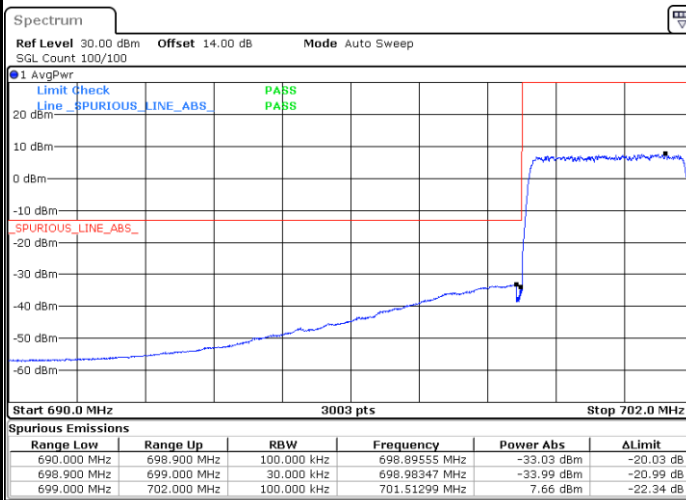
Lowest Band Edge / 1 RB



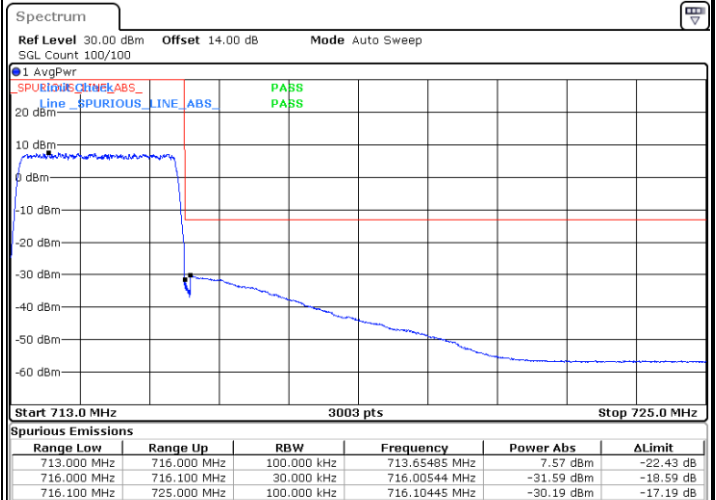
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



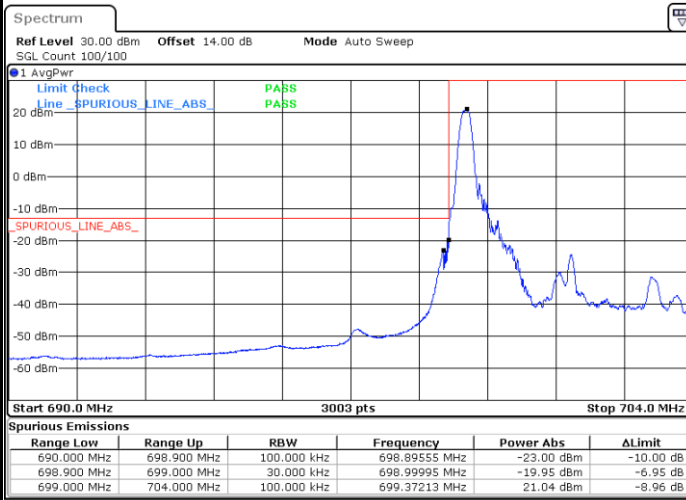
Highest Band Edge / Full RB





LTE Band 12 / 5MHz / QPSK

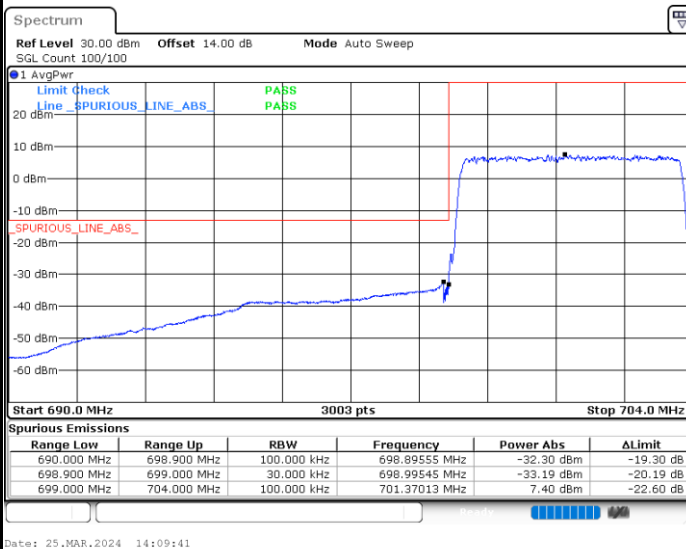
Lowest Band Edge / 1RB



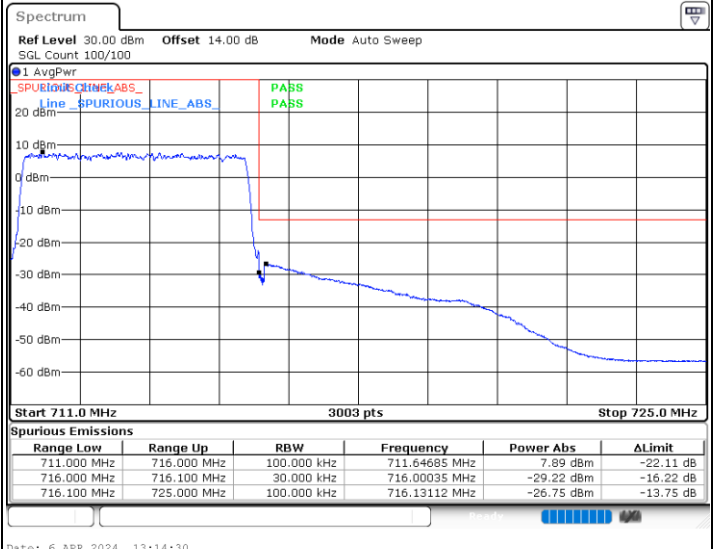
Highest Band Edge / 1RB



Lowest Band Edge / Full RB



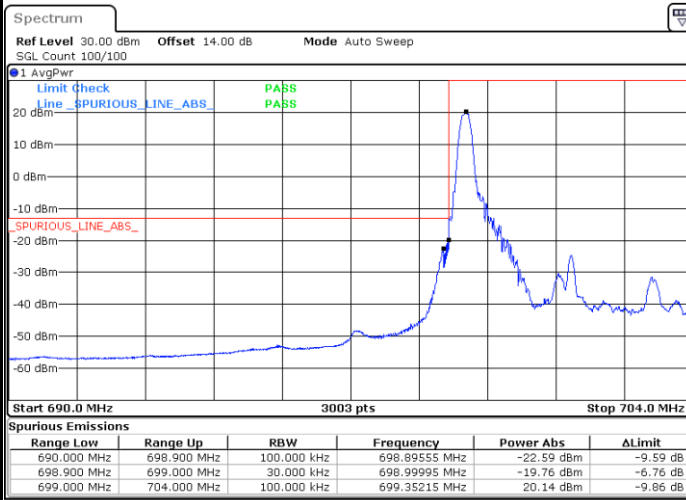
Highest Band Edge / Full RB





LTE Band 12 / 5MHz / 16QAM

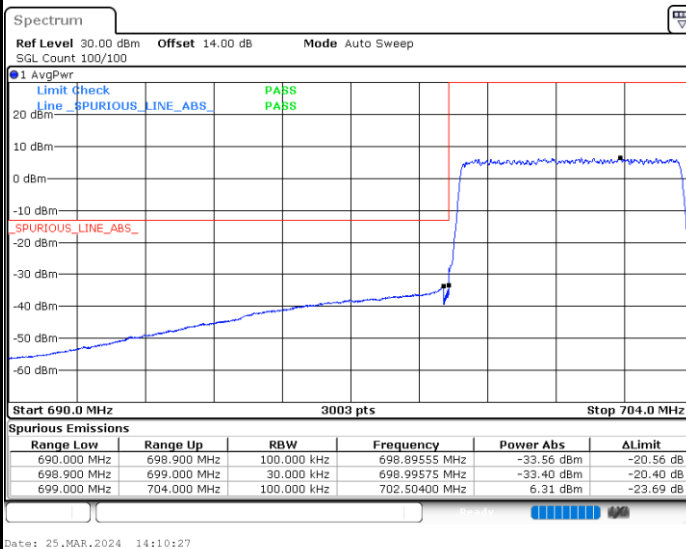
Lowest Band Edge / 1 RB



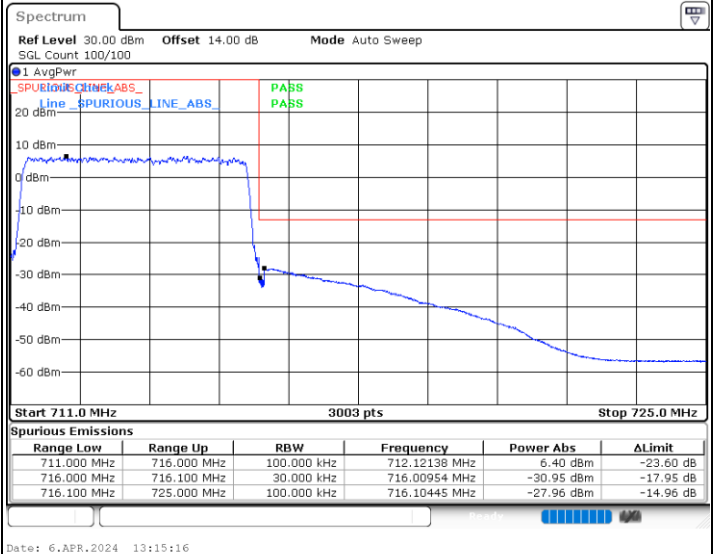
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



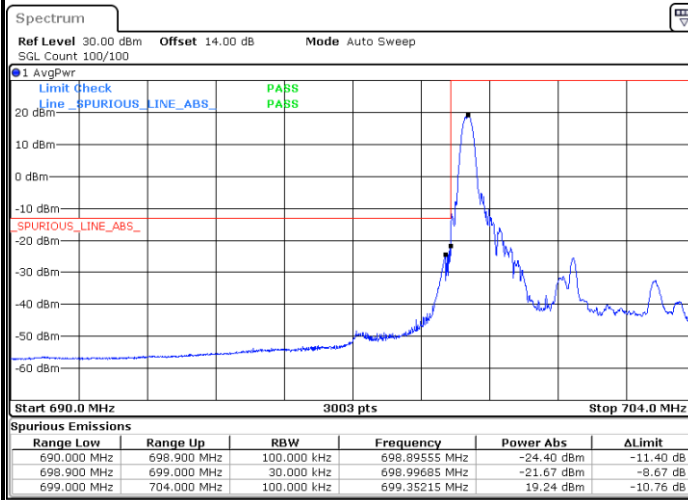
Highest Band Edge / Full RB





LTE Band 12 / 5MHz / 64QAM

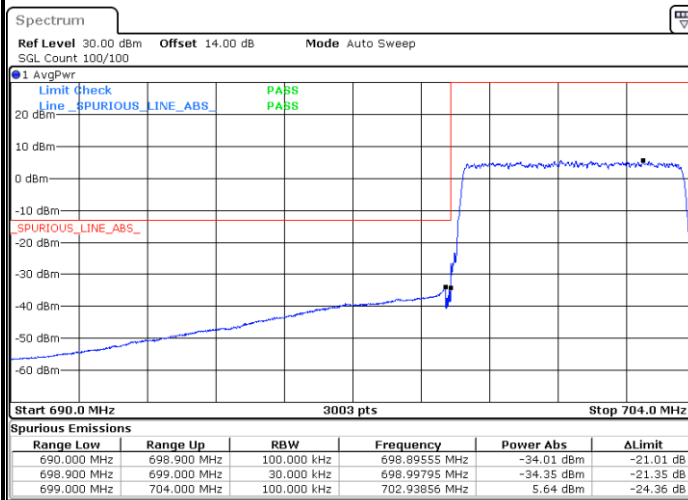
Lowest Band Edge / 1 RB



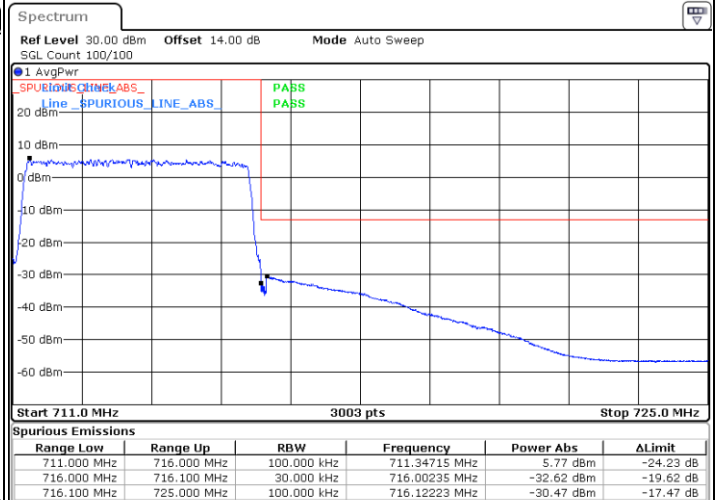
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



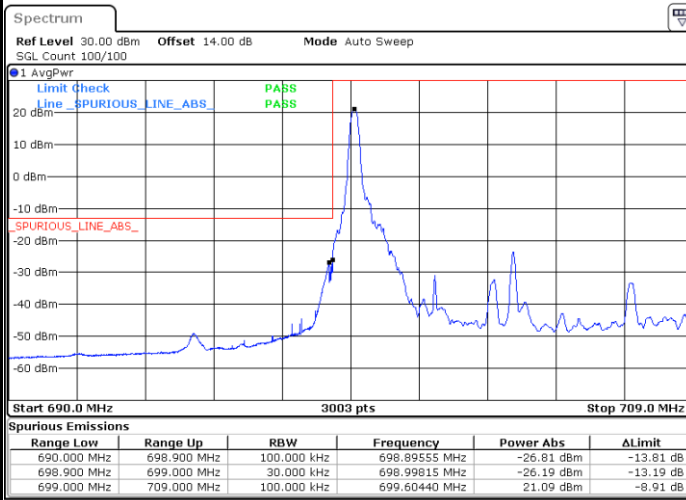
Highest Band Edge / Full RB





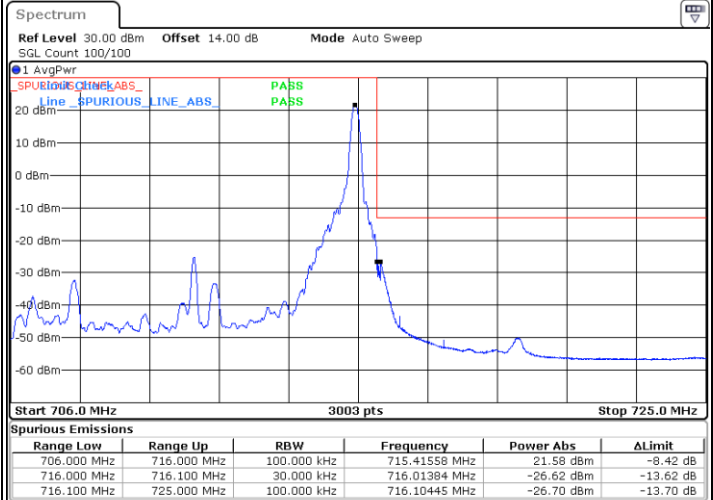
LTE Band 12 / 10MHz / QPSK

Lowest Band Edge / 1RB



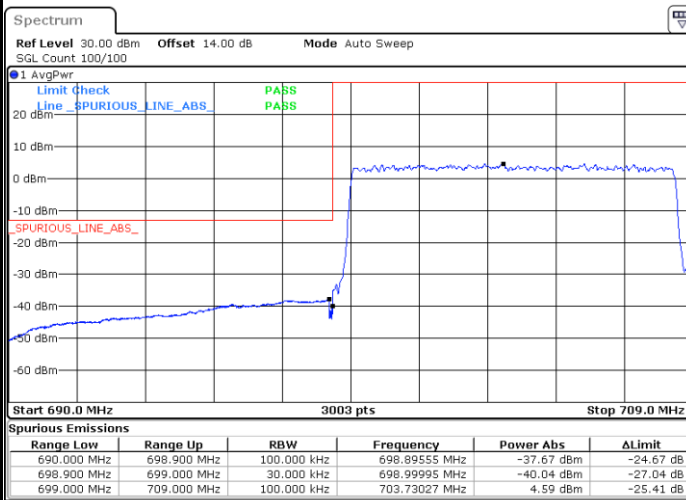
Date: 6.APR.2024 13:20:33

Highest Band Edge / 1RB



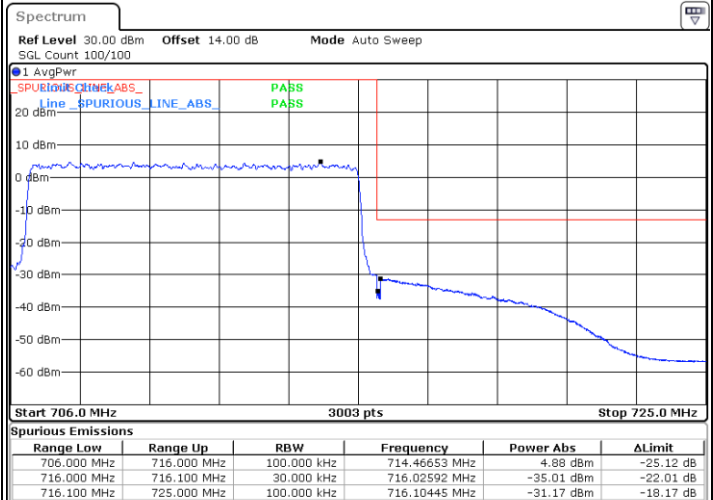
Date: 6.APR.2024 13:28:50

Lowest Band Edge / Full RB



Date: 6.APR.2024 13:22:54

Highest Band Edge / Full RB

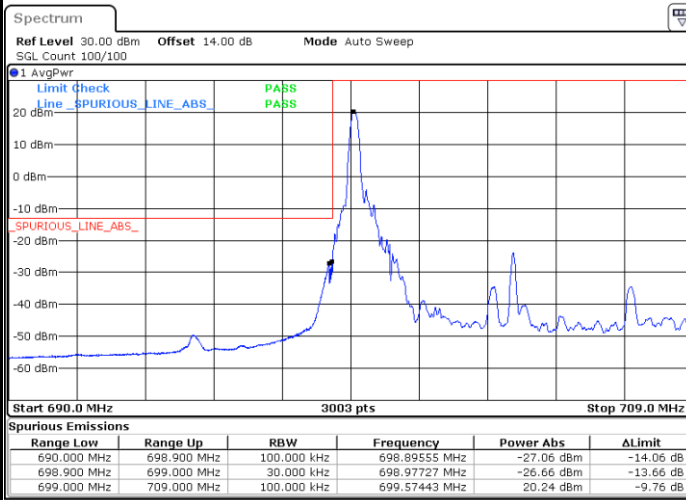


Date: 6.APR.2024 13:31:09

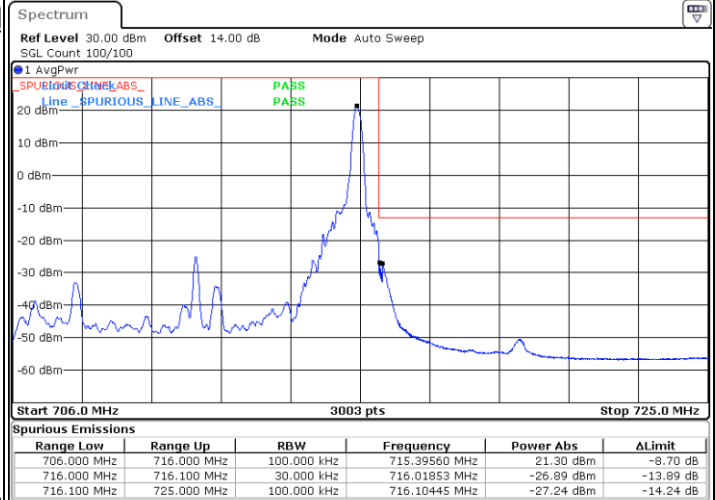


LTE Band 12 / 10MHz / 16QAM

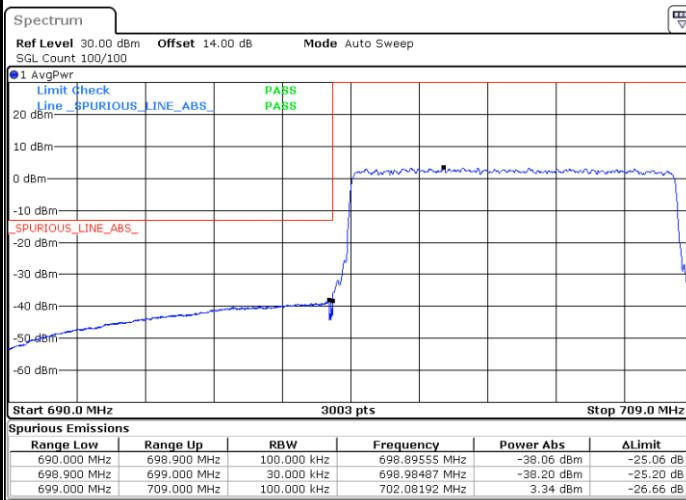
Lowest Band Edge / 1 RB



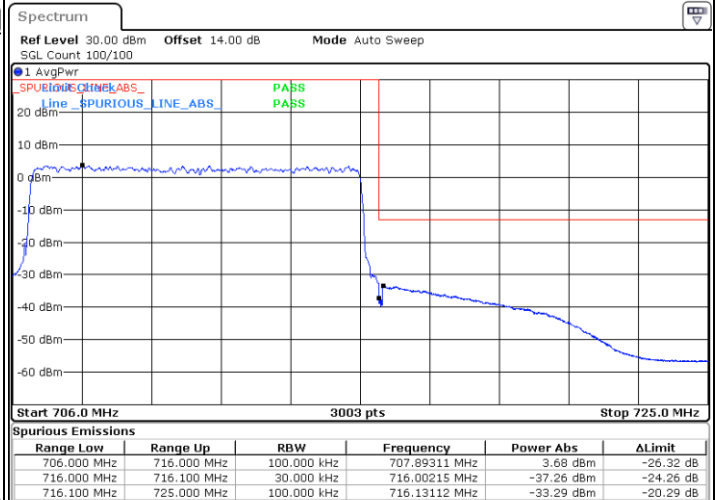
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



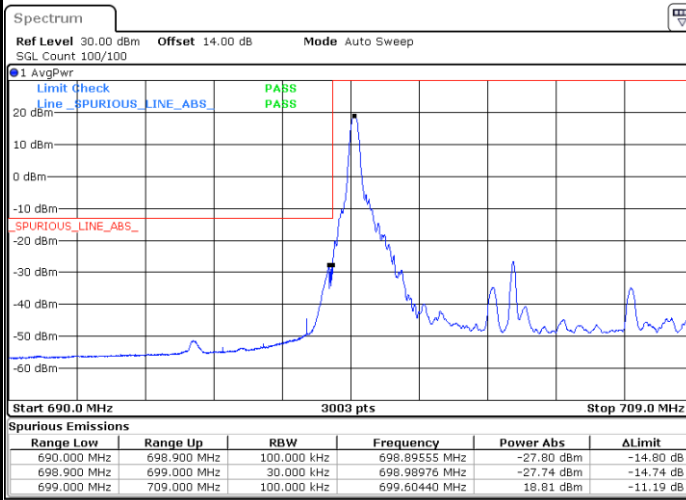
Highest Band Edge / Full RB



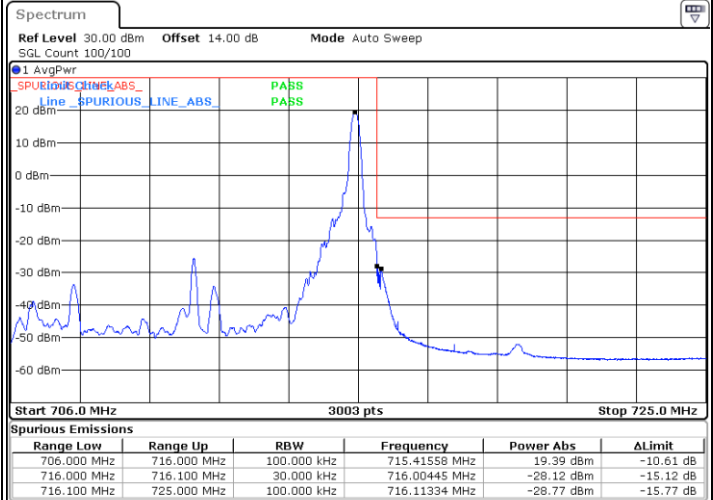


LTE Band 12 / 10MHz / 64QAM

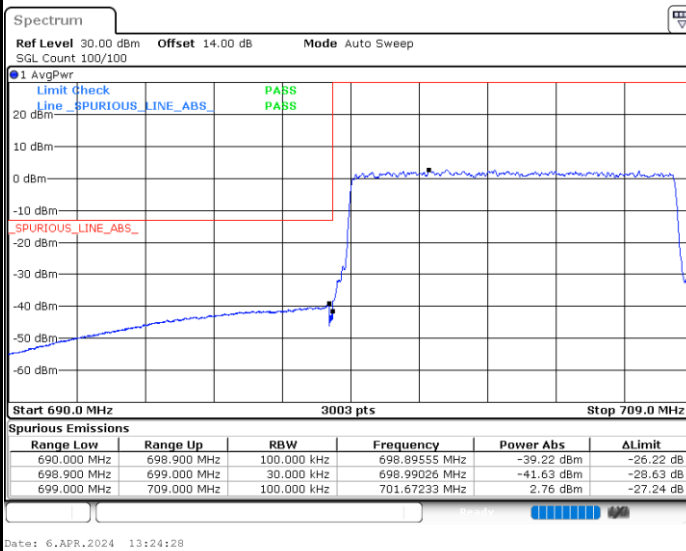
Lowest Band Edge / 1 RB



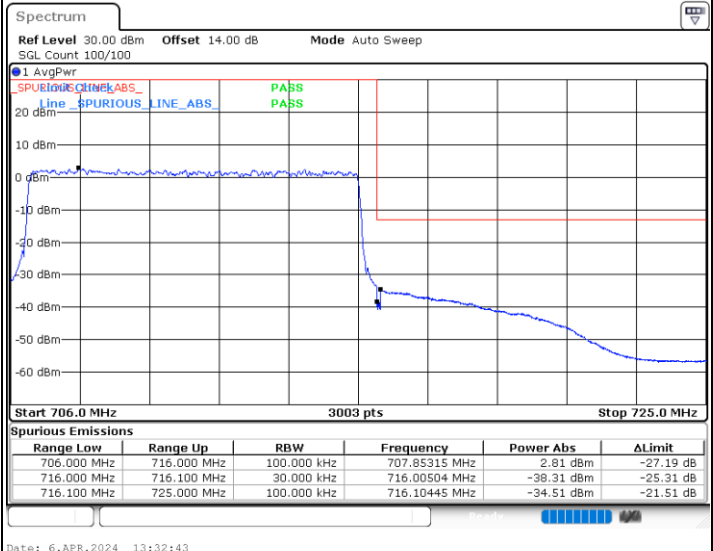
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

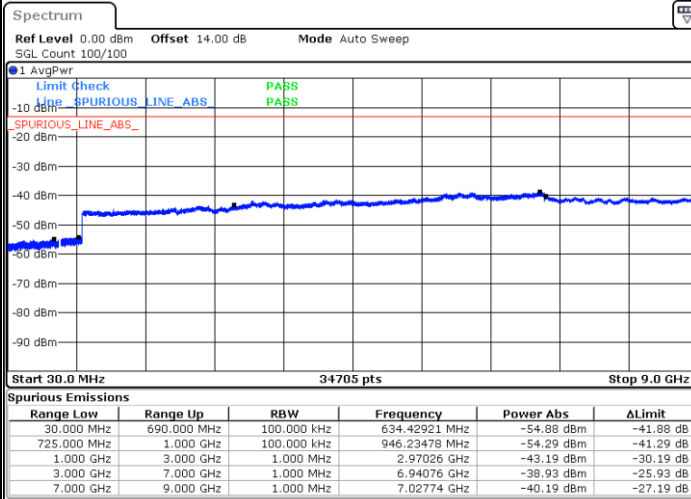




Conducted Spurious Emission

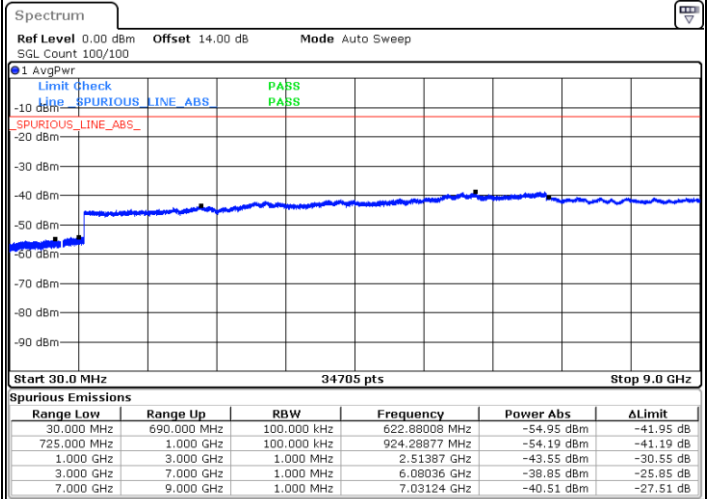
LTE Band 12 / 1.4MHz

Lowest Channel / QPSK



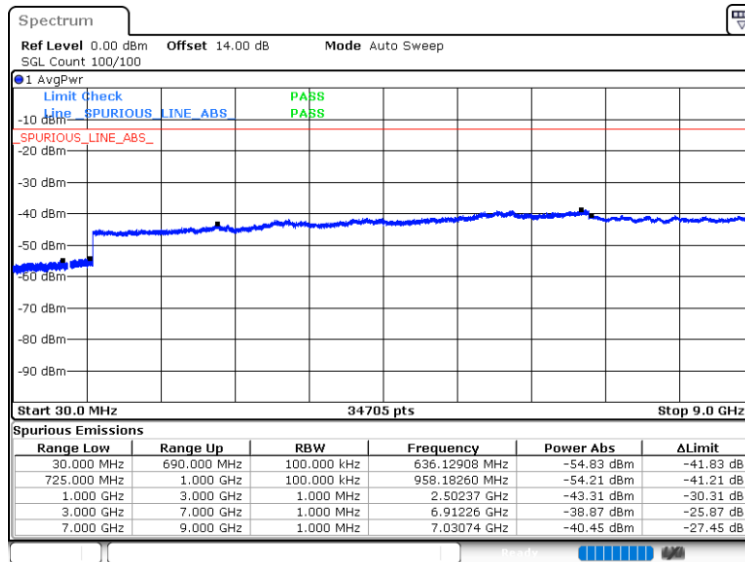
Date: 25.MAR.2024 13:42:45

Middle Channel / QPSK



Date: 25.MAR.2024 13:43:44

Highest Channel / QPSK

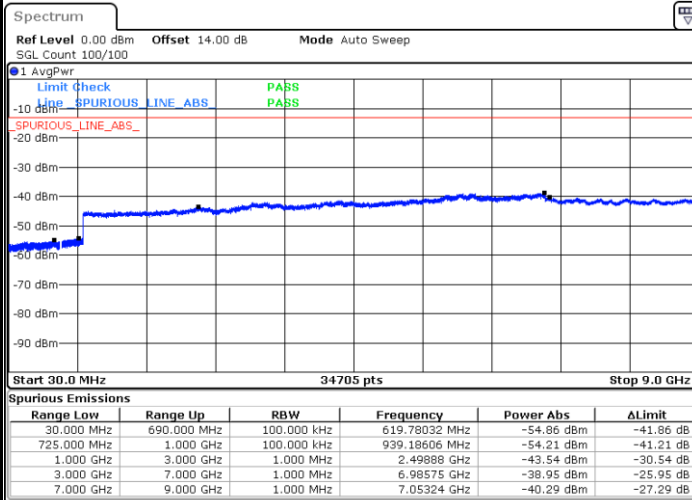


Date: 25.MAR.2024 13:50:36



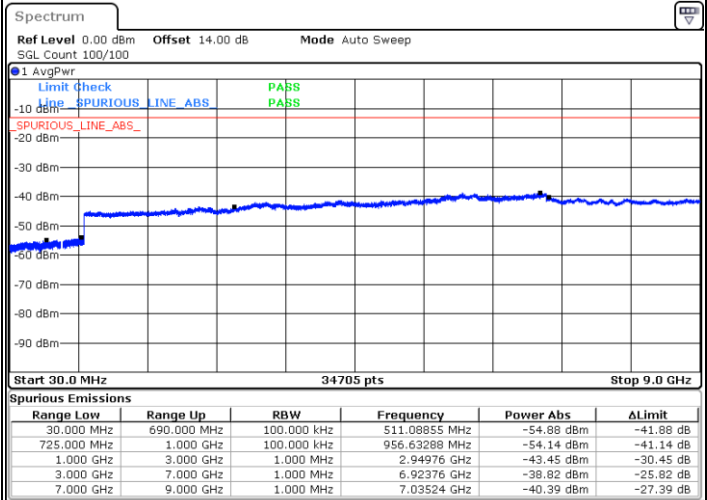
LTE Band 12 / 3MHz

Lowest Channel / QPSK



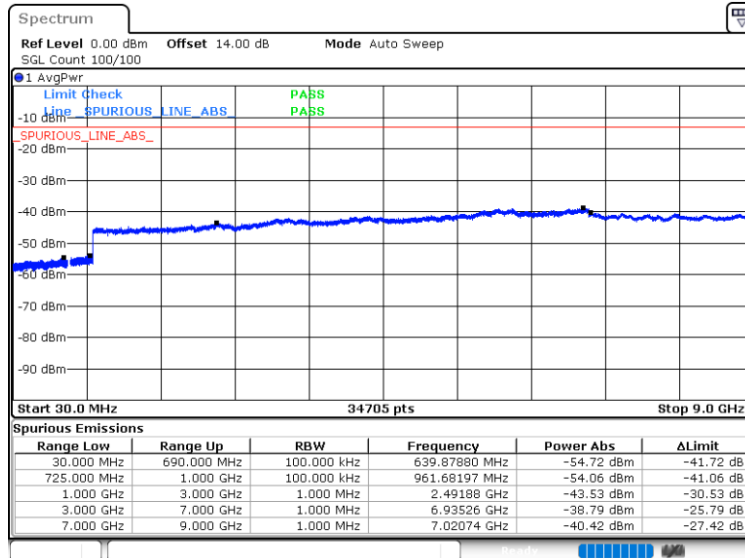
Date: 25.MAR.2024 13:57:27

Middle Channel / QPSK



Date: 25.MAR.2024 13:58:27

Highest Channel / QPSK

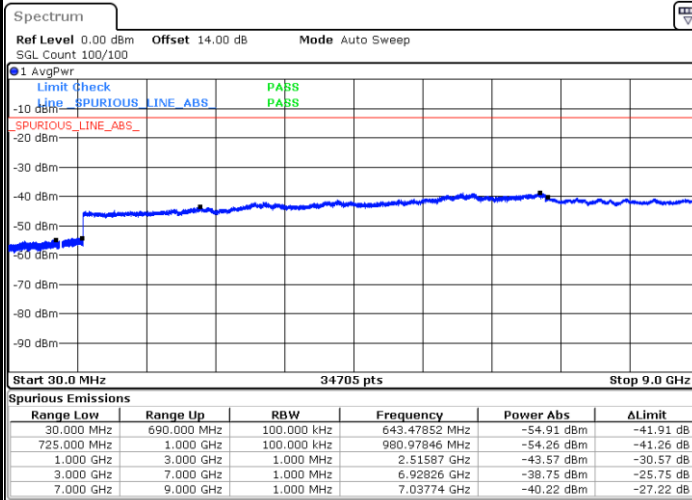


Date: 25.MAR.2024 14:05:20



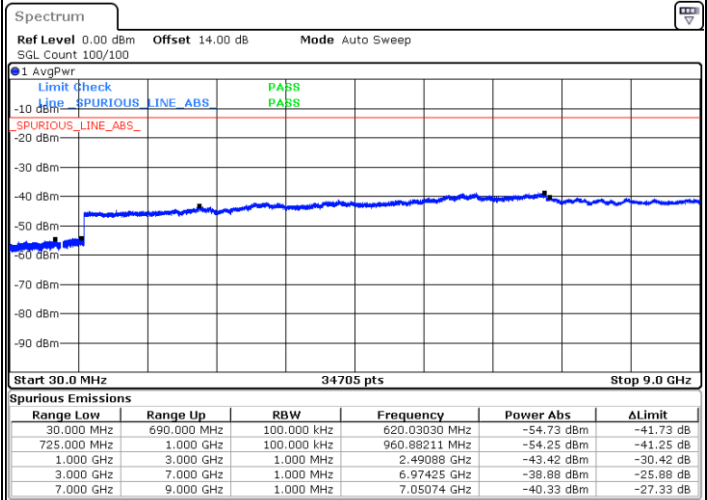
LTE Band 12 / 5MHz

Lowest Channel / QPSK



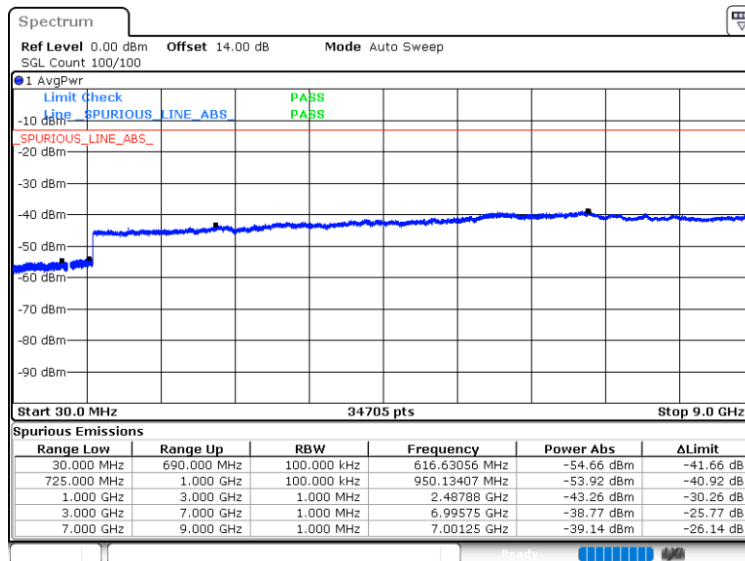
Date: 25.MAR.2024 14:12:13

Middle Channel / QPSK



Date: 25.MAR.2024 14:13:12

Highest Channel / QPSK

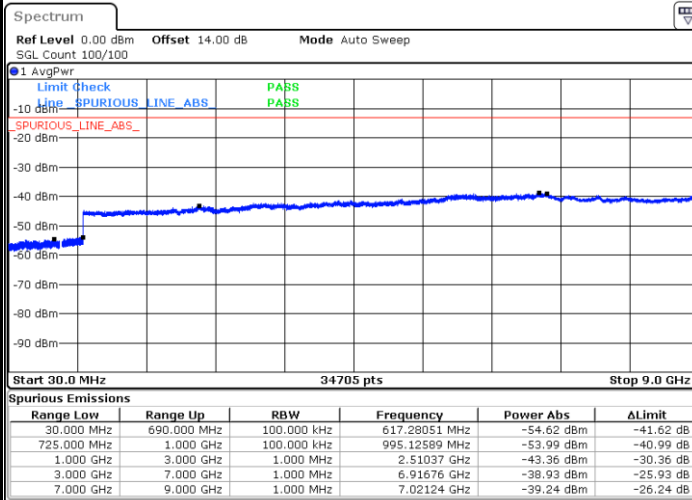


Date: 6.APR.2024 13:17:23



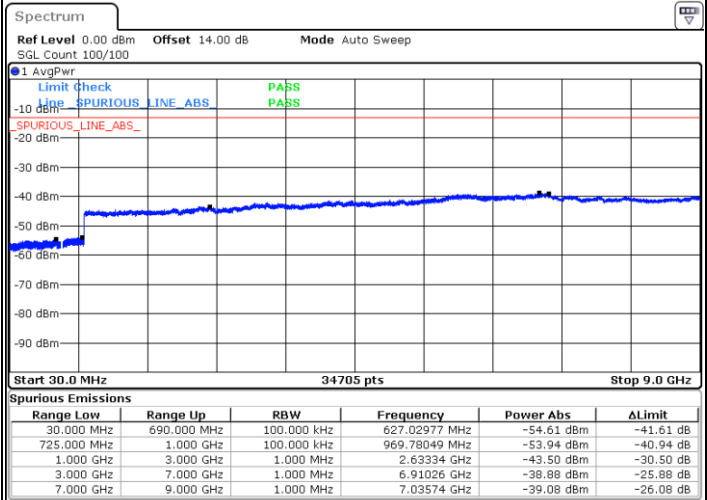
LTE Band 12 / 10MHz

Lowest Channel / QPSK



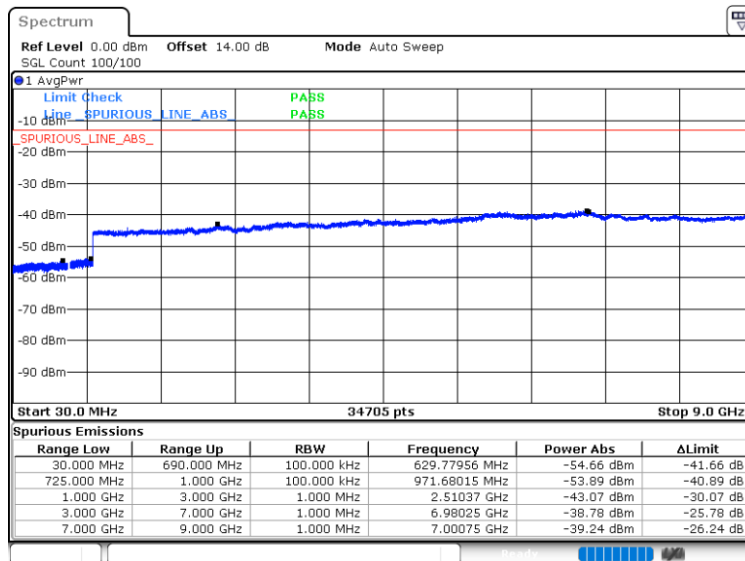
Date: 6.APR.2024 13:25:49

Middle Channel / QPSK



Date: 6.APR.2024 13:26:44

Highest Channel / QPSK



Date: 6.APR.2024 13:33:38

**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	0.0017	PASS
40	Normal Voltage	0.0011	
30	Normal Voltage	0.0023	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0021	
0	Normal Voltage	0.0010	
-10	Normal Voltage	0.0001	
-20	Normal Voltage	0.0003	
-30	Normal Voltage	0.0023	
20	Maximum Voltage	0.0016	
20	Normal Voltage	0.0000	
20	Minimum Voltage	0.0003	

Note:

1. Normal Voltage = 3.3 V. ; Minimum Voltage = 3.14 V. ; Maximum Voltage = 4.4 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 13

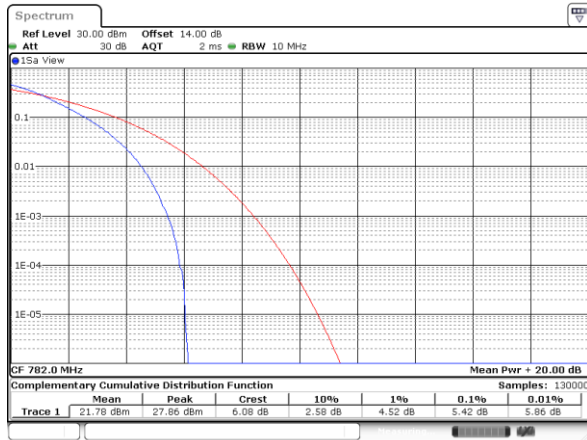
Peak-to-Average Ratio

Mode	LTE Band 13 / 10MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	5.42	6.43	6.72	PASS



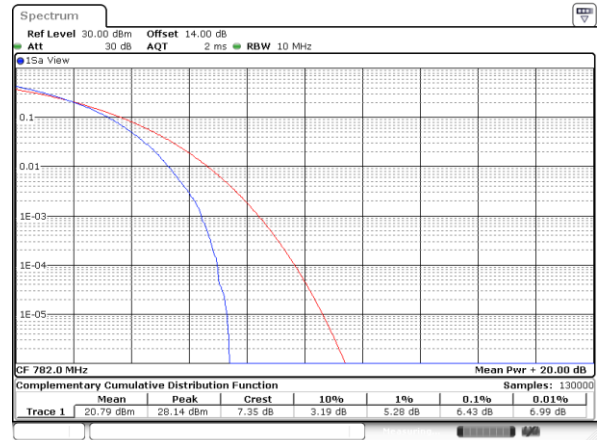
LTE Band 13 / 10MHz / QPSK

Middle Channel / Full RB



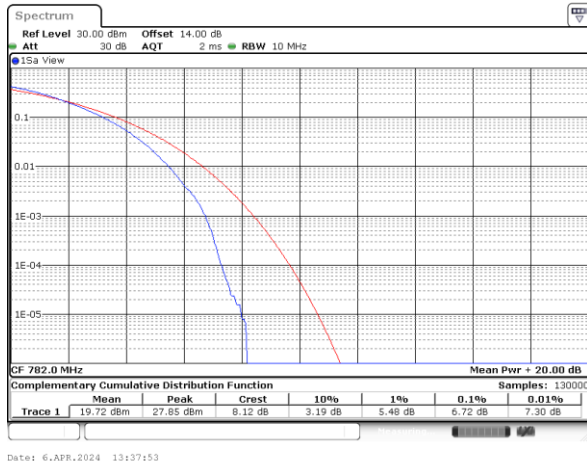
LTE Band 13 / 10MHz / 16QAM

Middle Channel / Full RB



LTE Band 13 / 10MHz / 64QAM

Middle Channel / Full RB





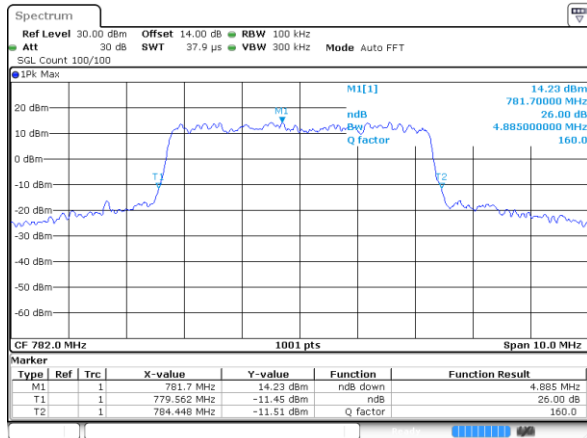
26dB Bandwidth

Mode	LTE Band 13 : 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	-	-	-	-	4.89	4.95	9.67	9.67	-	-	-	-



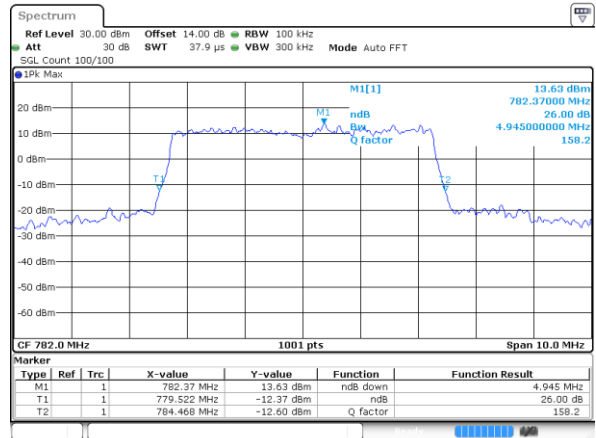
LTE Band 13

Middle Channel / 5MHz / QPSK



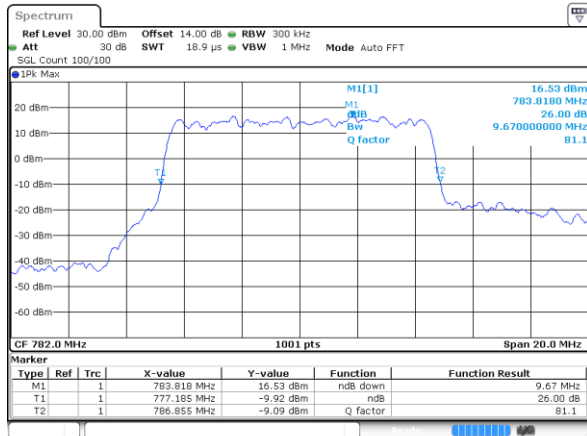
Date: 1 APR 2024 17:53:04

Middle Channel / 5MHz / 16QAM



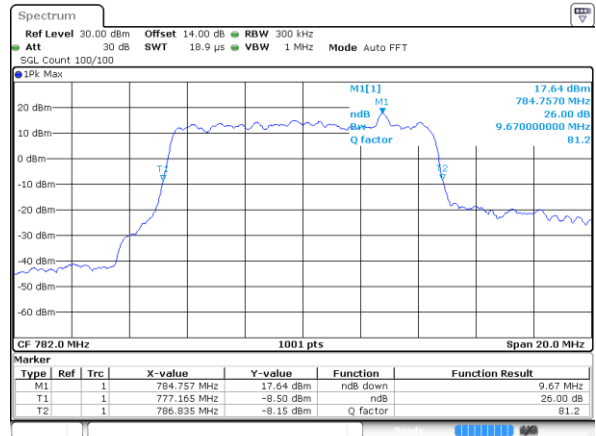
Date: 1 APR 2024 17:53:43

Middle Channel / 10MHz / QPSK



Date: 1 APR 2024 18:12:48

Middle Channel / 10MHz / 16QAM



Date: 1 APR 2024 18:13:27



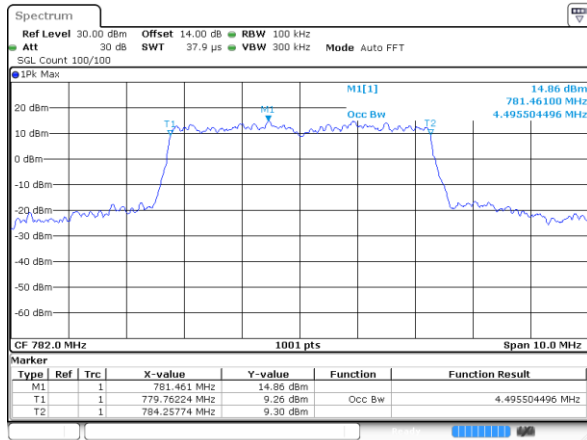
Occupied Bandwidth

Mode	LTE Band 13 : 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	-	-	-	-	4.50	4.49	9.07	8.99	-	-	-	-



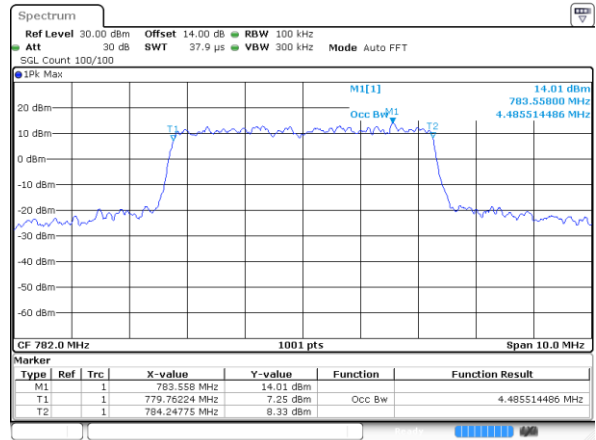
LTE Band 13

Middle Channel / 5MHz / QPSK



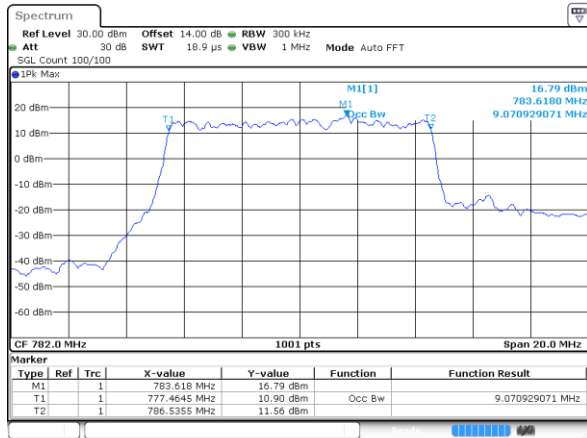
Date: 1 APR 2024 17:52:50

Middle Channel / 5MHz / 16QAM



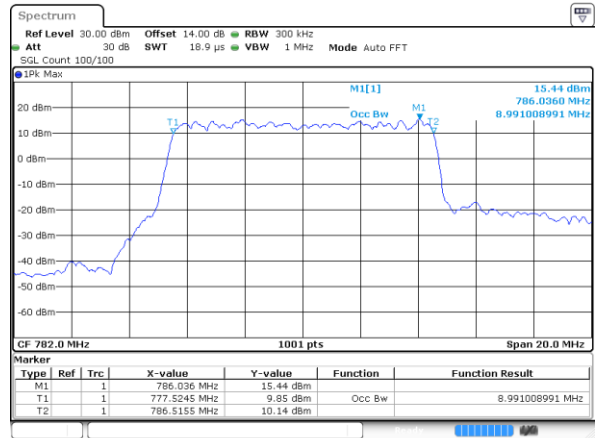
Date: 1 APR 2024 17:53:29

Middle Channel / 10MHz / QPSK



Date: 1 APR 2024 18:12:34

Middle Channel / 10MHz / 16QAM



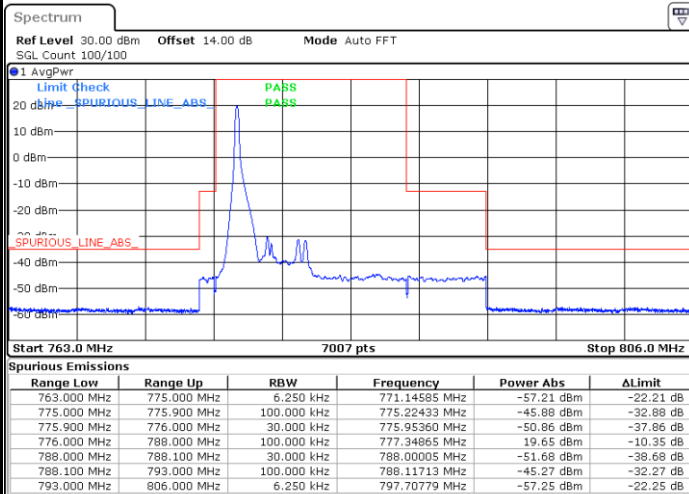
Date: 1 APR 2024 18:13:13



Conducted Band Edge

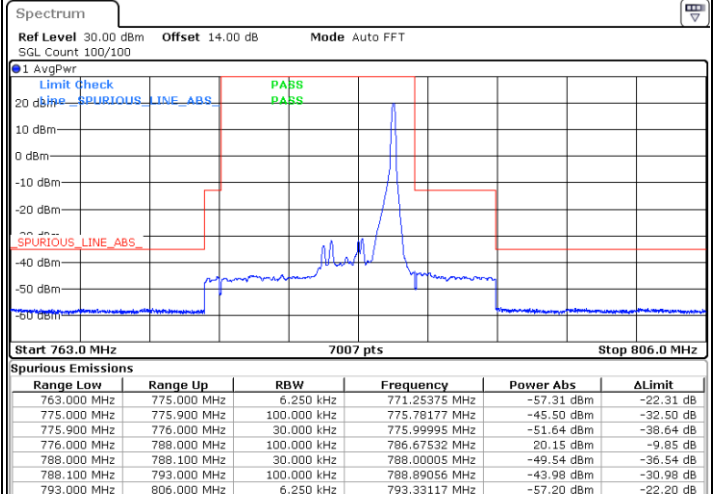
LTE Band 13 / 5MHz / QPSK

Lowest Band Edge / 1 RB



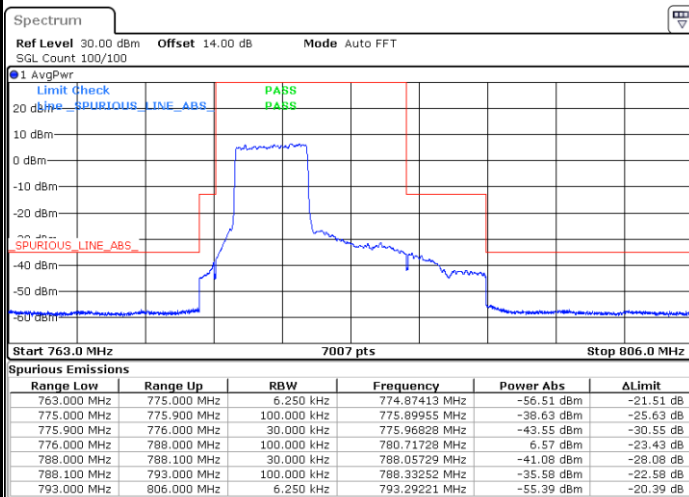
Date: 1 APR 2024 17:44:49

Highest Band Edge / 1 RB



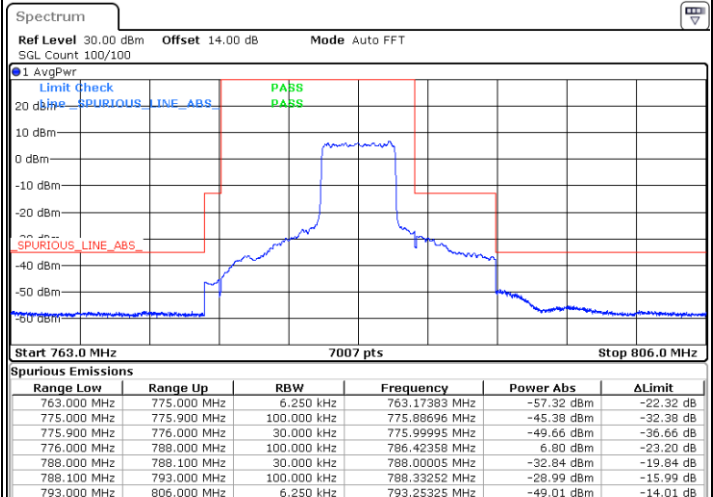
Date: 1 APR 2024 17:54:43

Lowest Band Edge / Full RB



Date: 1 APR 2024 17:47:52

Highest Band Edge / Full RB

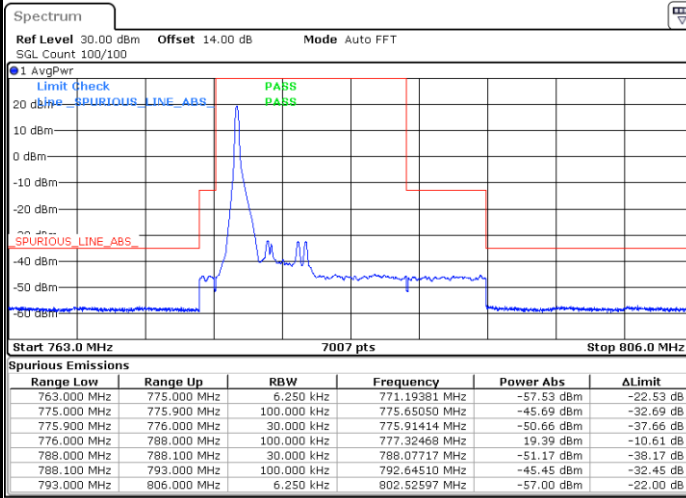


Date: 1 APR 2024 17:57:47



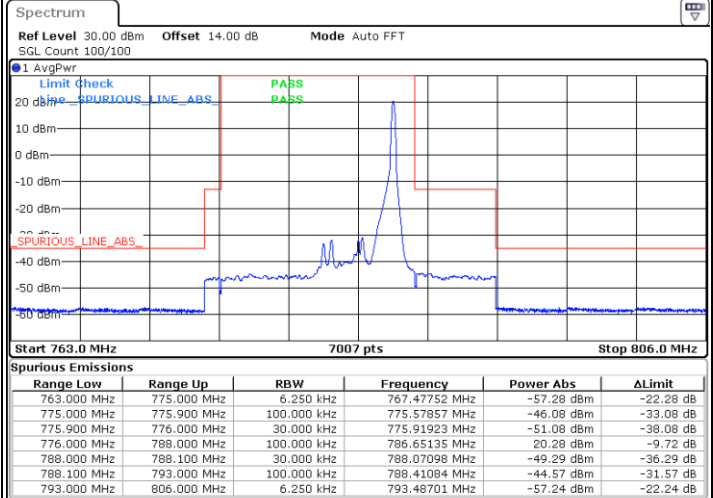
LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1 RB



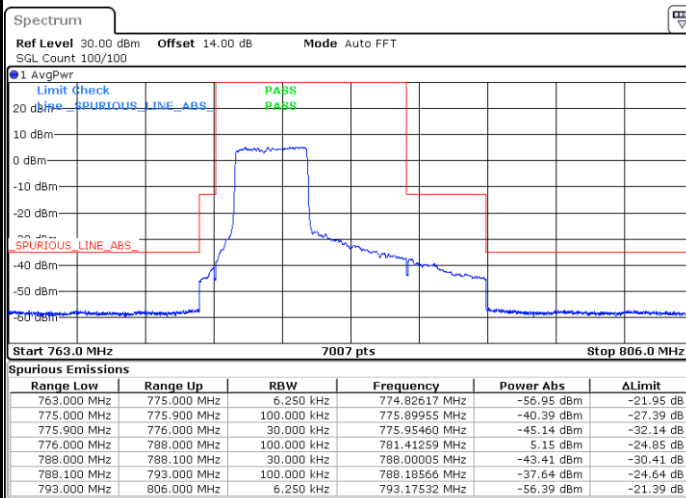
Date: 1 APR 2024 17:45:50

Highest Band Edge / 1 RB



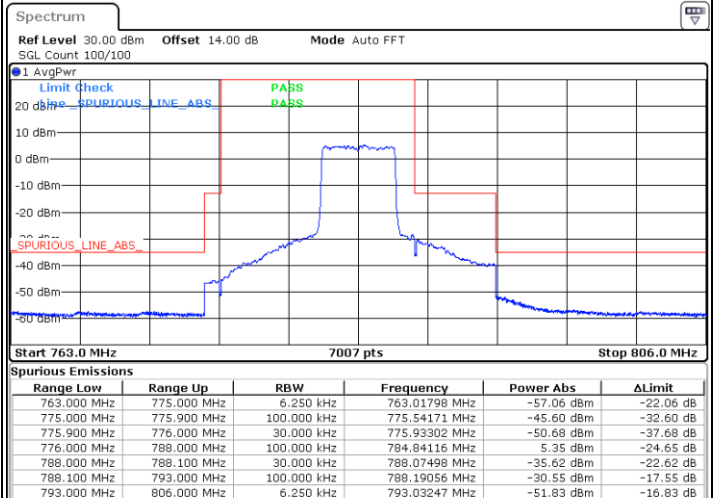
Date: 1 APR 2024 17:55:45

Lowest Band Edge / Full RB



Date: 1 APR 2024 17:48:53

Highest Band Edge / Full RB



Date: 1 APR 2024 17:58:48