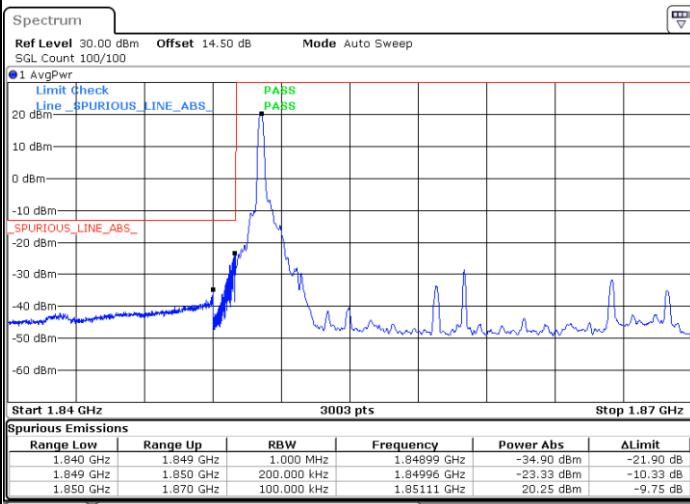




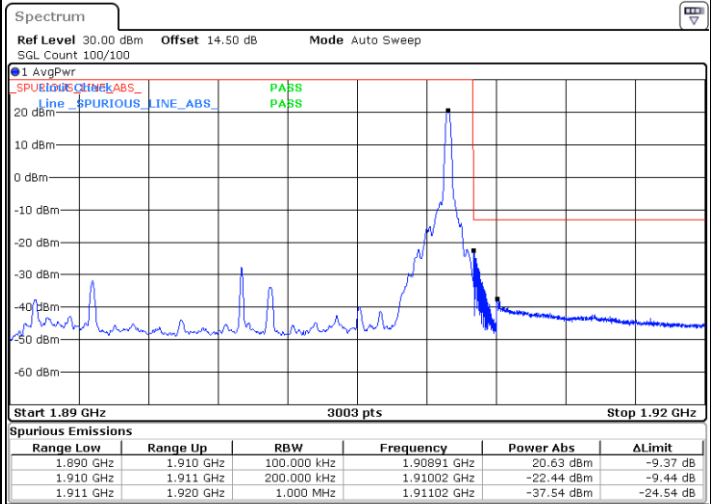
LTE Band 2 / 20MHz / QPSK

Lowest Band Edge / 1RB



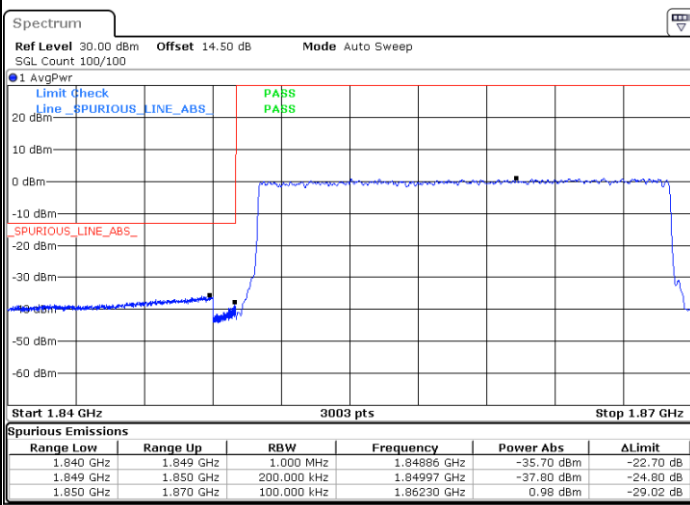
Date: 7.JAN.2025 00:09:51

Highest Band Edge / 1RB



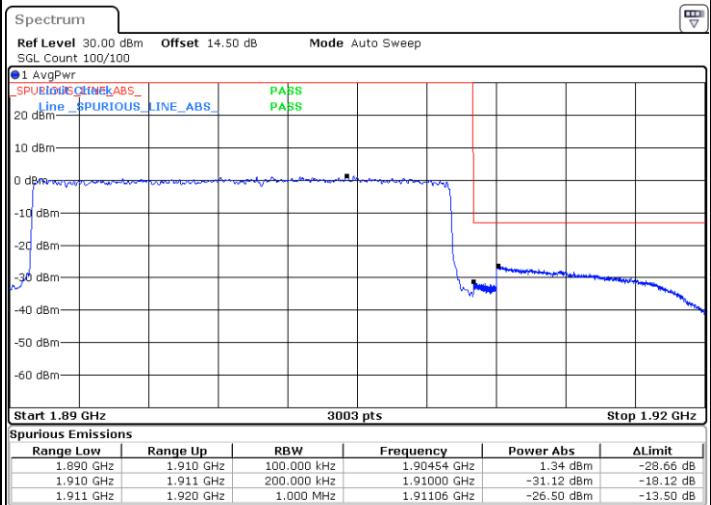
Date: 7.JAN.2025 00:18:47

Lowest Band Edge / Full RB



Date: 7.JAN.2025 00:12:03

Highest Band Edge / Full RB

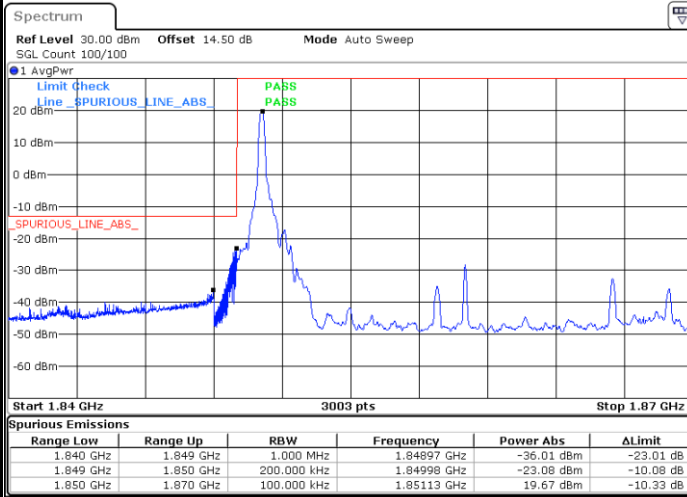


Date: 7.JAN.2025 00:21:00



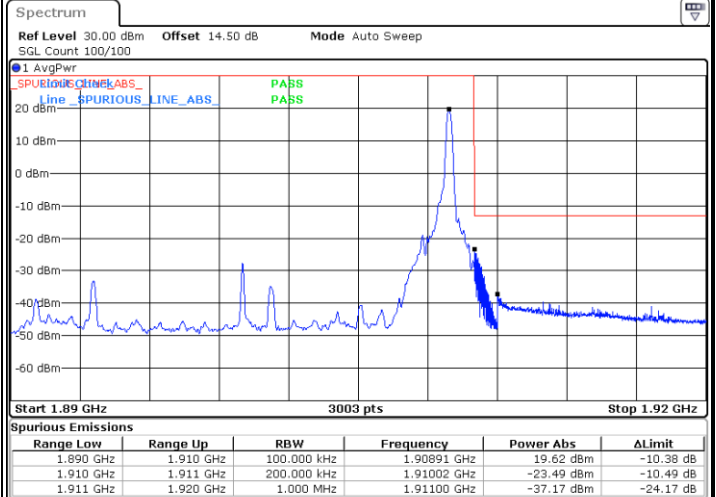
LTE Band 2 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



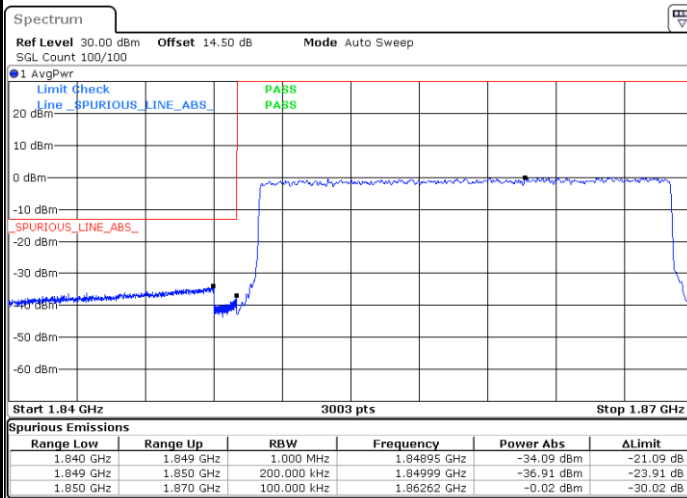
Date: 7. JAN. 2025 00:10:35

Highest Band Edge / 1 RB



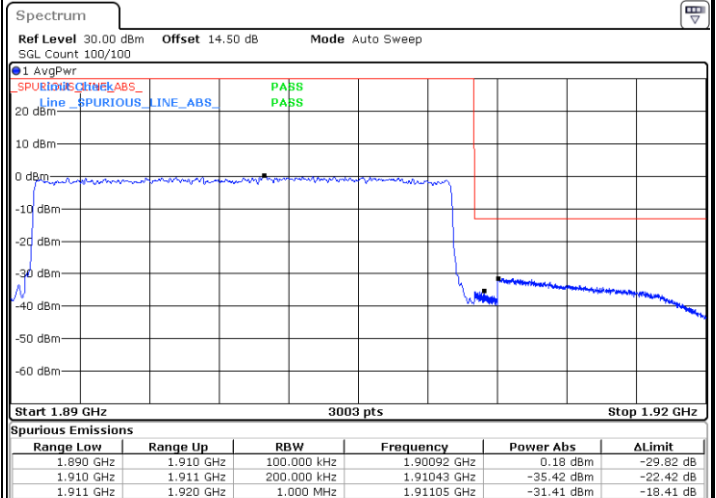
Date: 7. JAN. 2025 00:19:31

Lowest Band Edge / Full RB



Date: 7. JAN. 2025 00:12:47

Highest Band Edge / Full RB

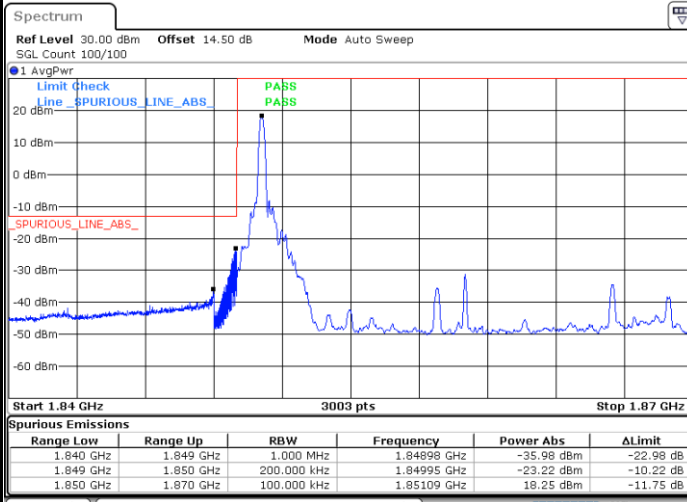


Date: 7. JAN. 2025 00:21:43



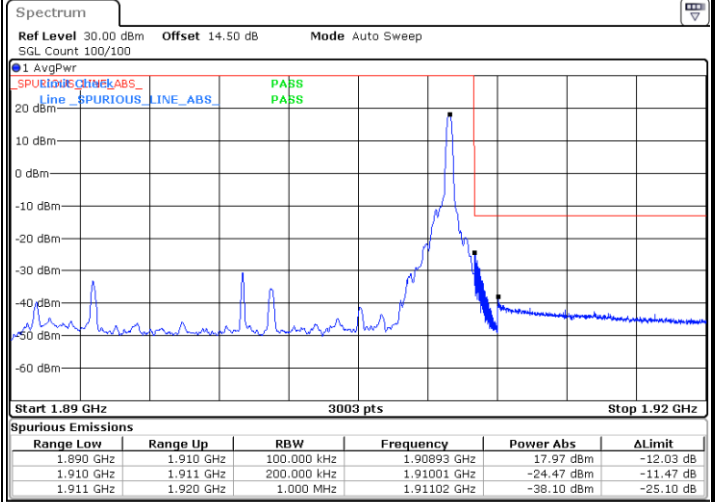
LTE Band 2 / 20MHz / 64QAM

Lowest Band Edge / 1 RB



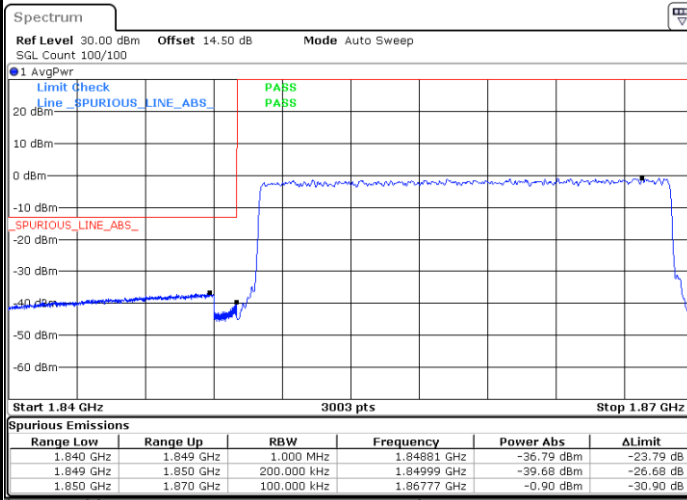
Date: 7.JAN.2025 00:11:19

Highest Band Edge / 1 RB



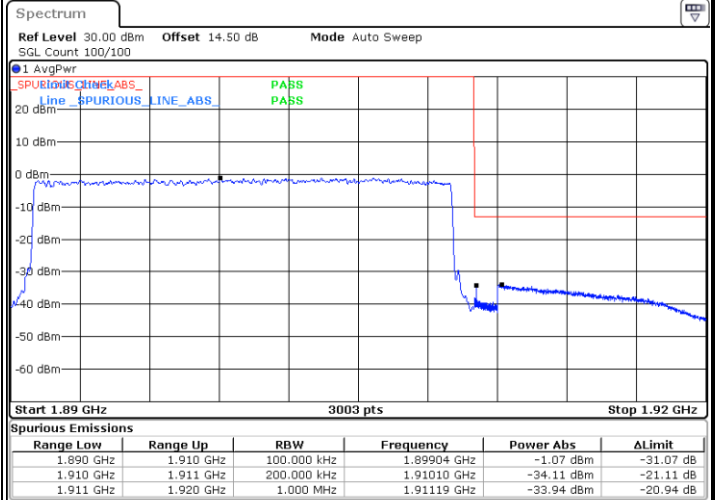
Date: 7.JAN.2025 00:20:15

Lowest Band Edge / Full RB



Date: 7.JAN.2025 00:13:32

Highest Band Edge / Full RB



Date: 7.JAN.2025 00:22:27

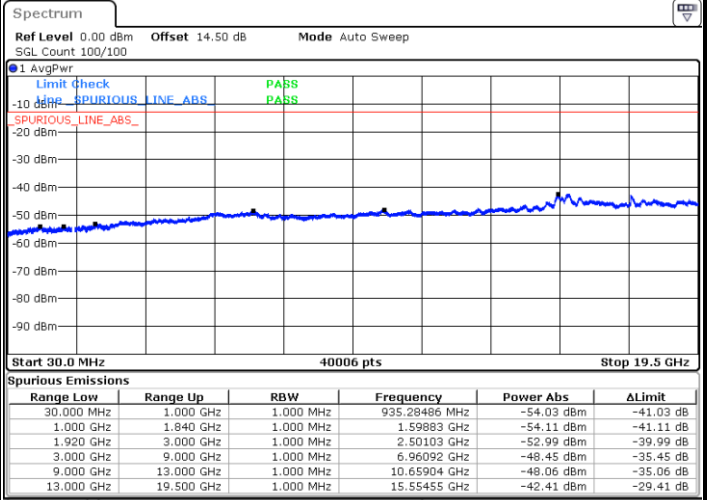
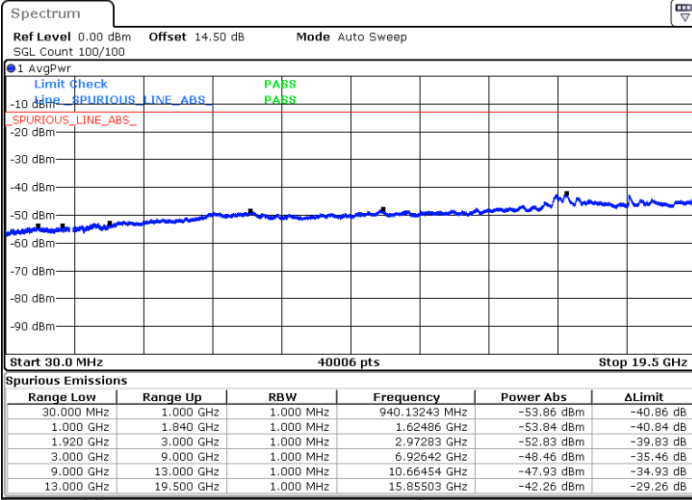


Conducted Spurious Emission

LTE Band 2 / 1.4MHz

Lowest Channel / QPSK

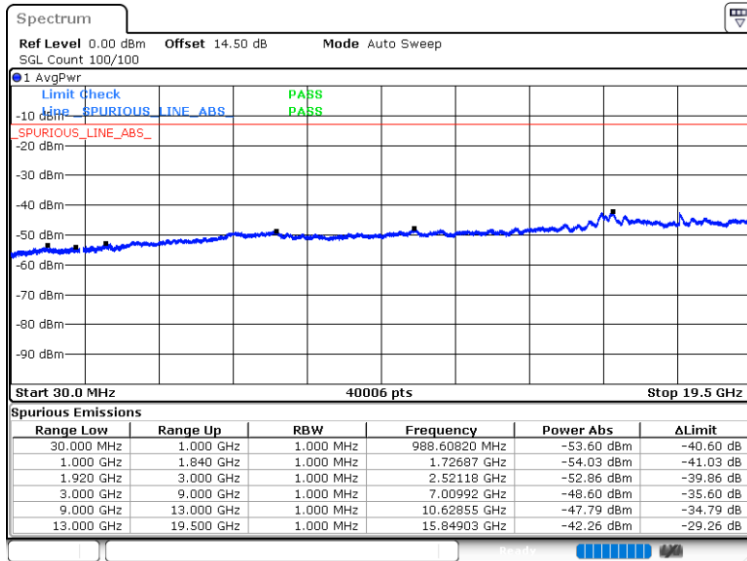
Middle Channel / QPSK



Date: 6.JAN.2025 22:55:19

Date: 6.JAN.2025 22:58:57

Highest Channel / QPSK



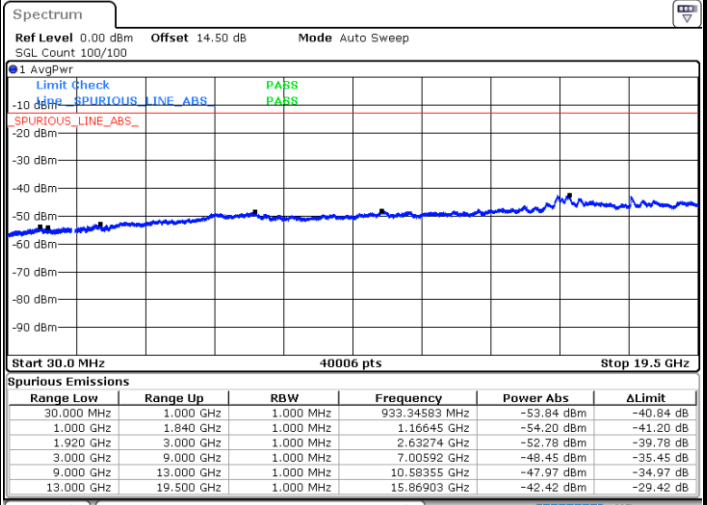
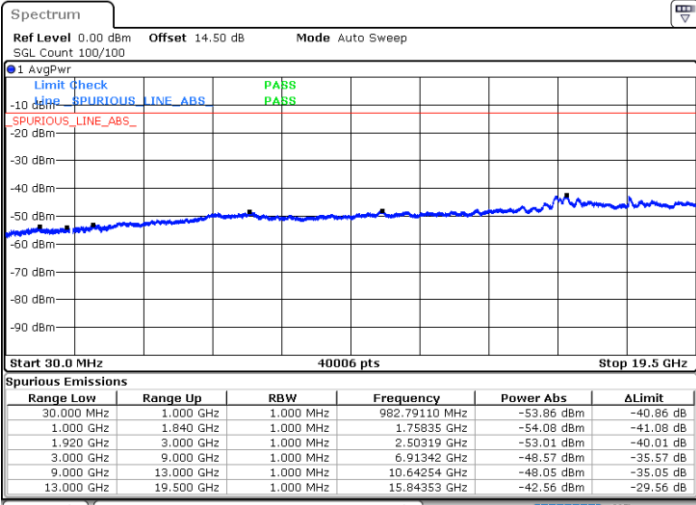
Date: 6.JAN.2025 23:03:54



LTE Band 2 / 3MHz

Lowest Channel / QPSK

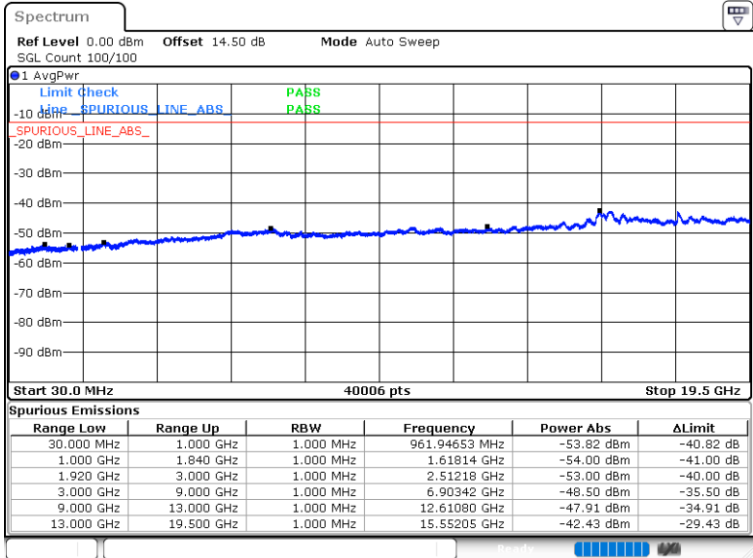
Middle Channel / QPSK



Date: 6.JAN.2025 23:10:47

Date: 6.JAN.2025 23:14:25

Highest Channel / QPSK

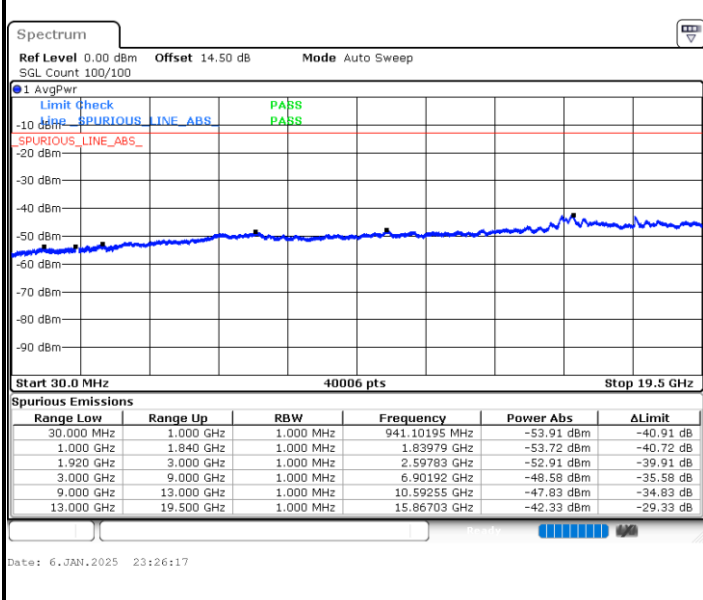


Date: 6.JAN.2025 23:21:55

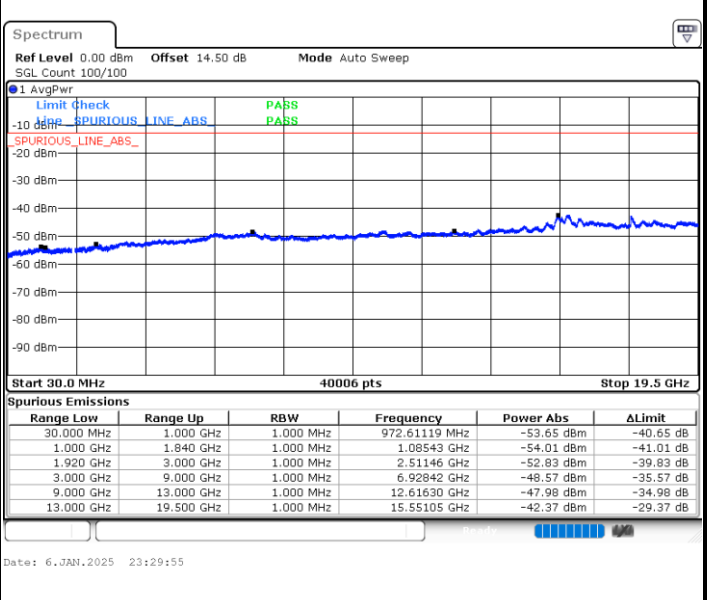


LTE Band 2 / 5MHz

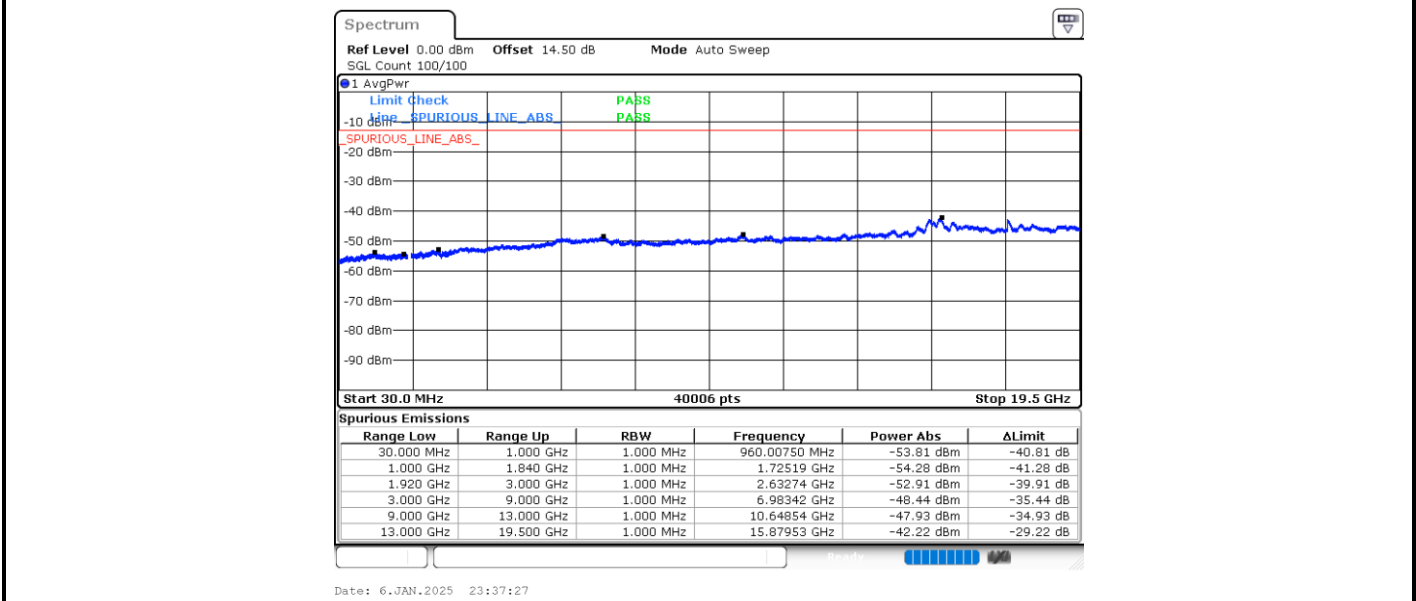
Lowest Channel / QPSK



Middle Channel / QPSK



Highest Channel / QPSK

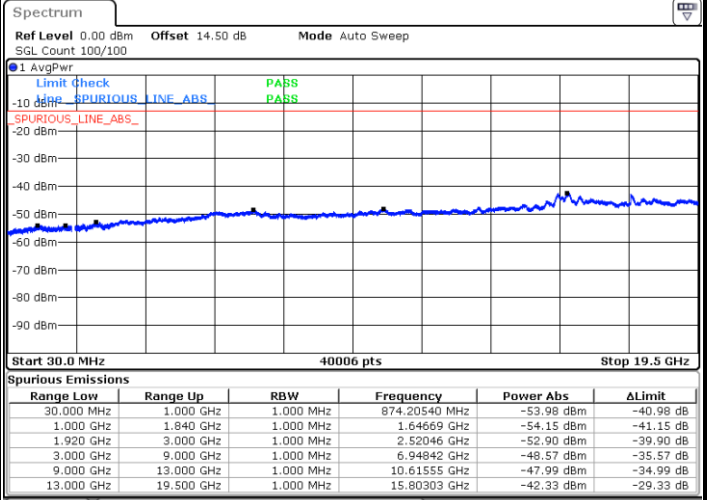
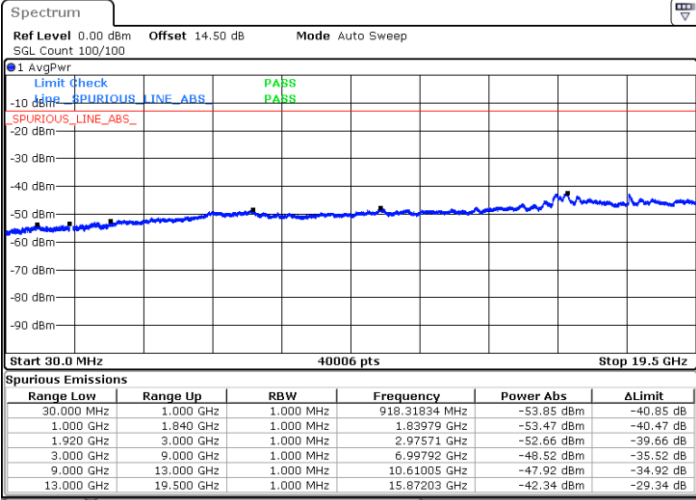




LTE Band 2 / 10MHz

Lowest Channel / QPSK

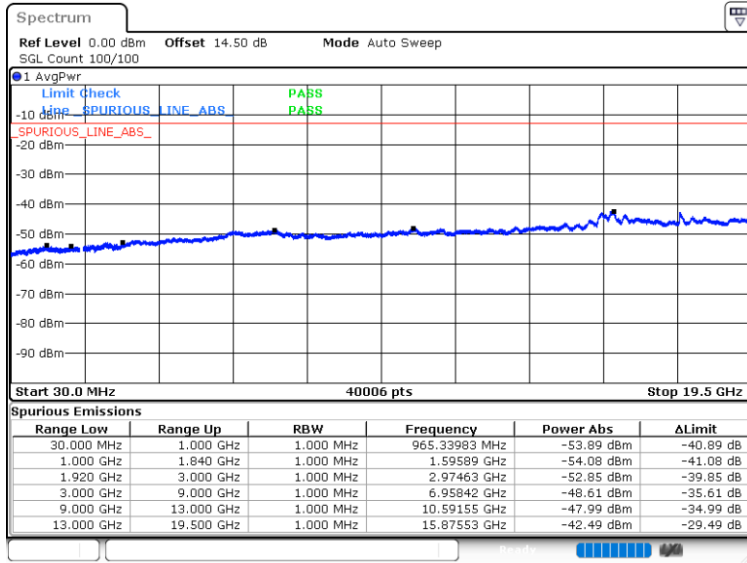
Middle Channel / QPSK



Date: 6.JAN.2025 23:44:21

Date: 6.JAN.2025 23:45:26

Highest Channel / QPSK

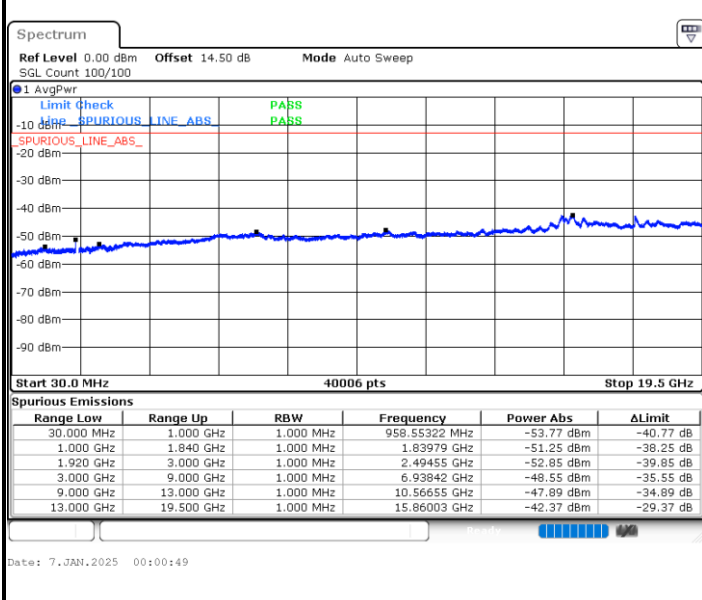


Date: 6.JAN.2025 23:52:56

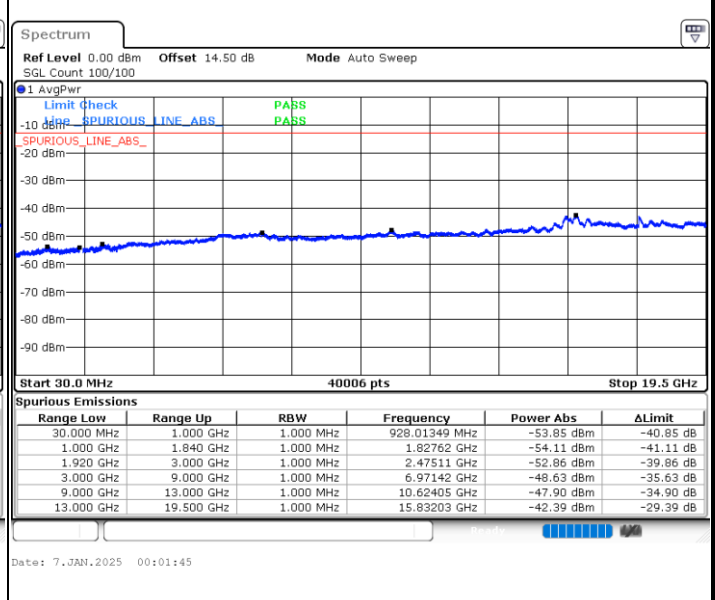


LTE Band 2 / 15MHz

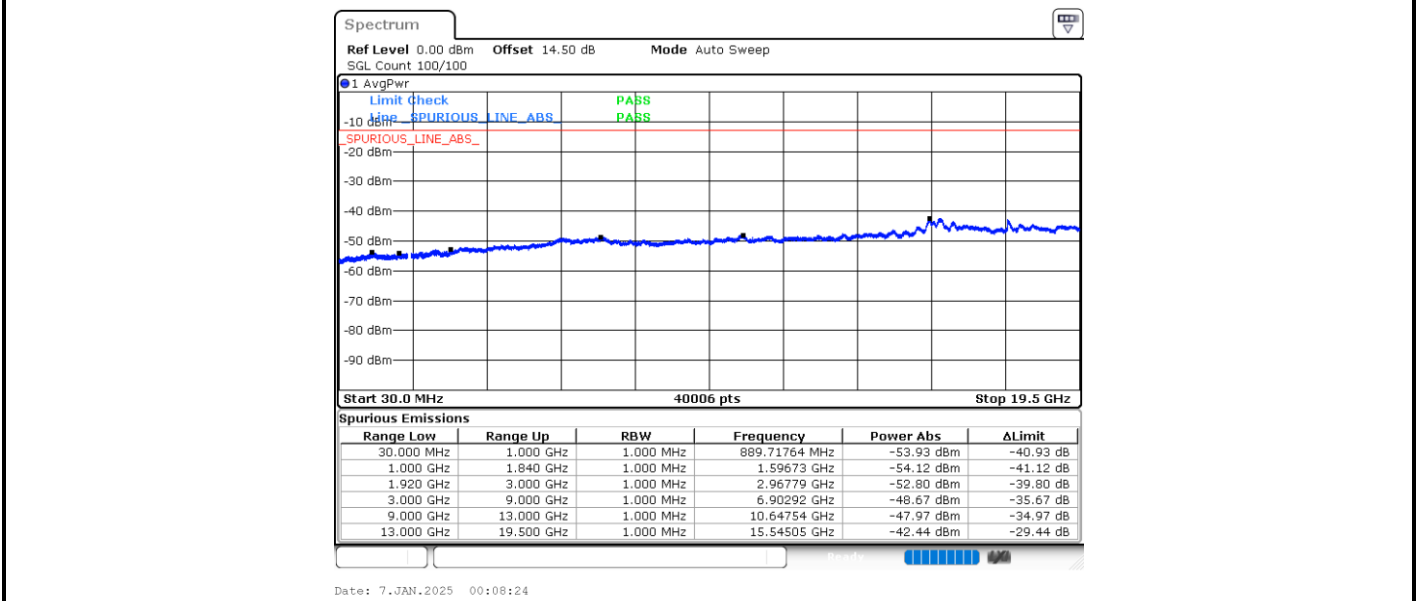
Lowest Channel / QPSK



Middle Channel / QPSK



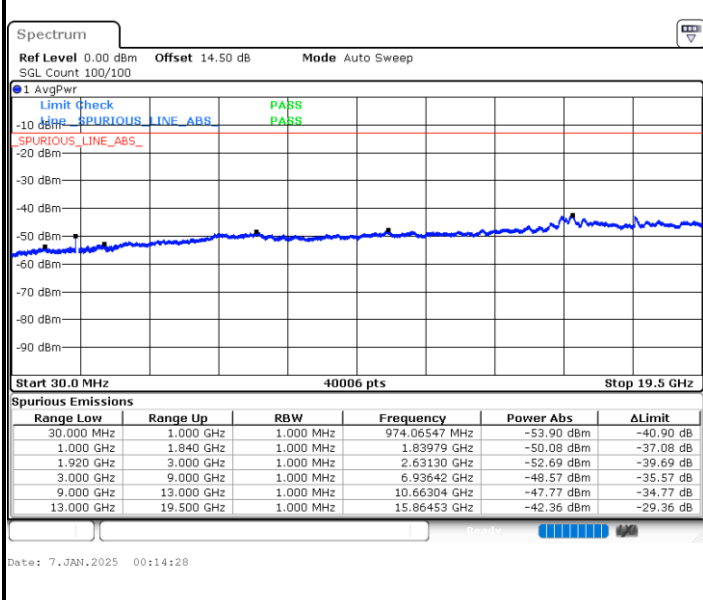
Highest Channel / QPSK



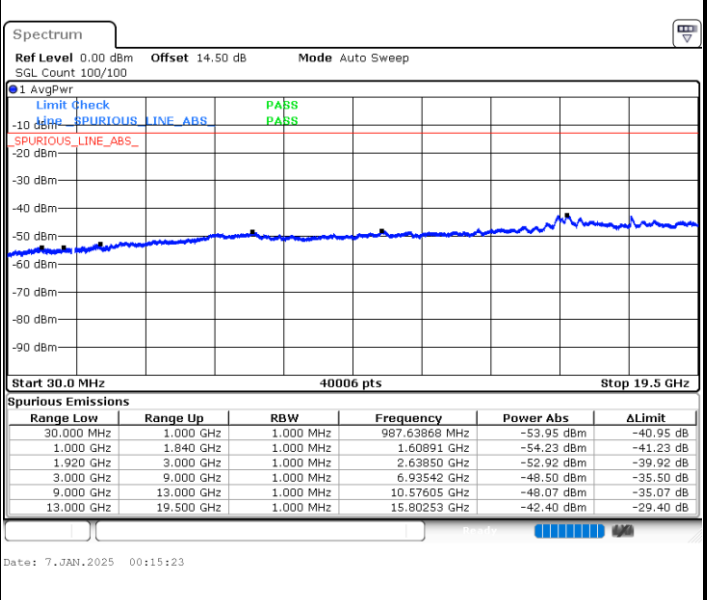


LTE Band 2 / 20MHz

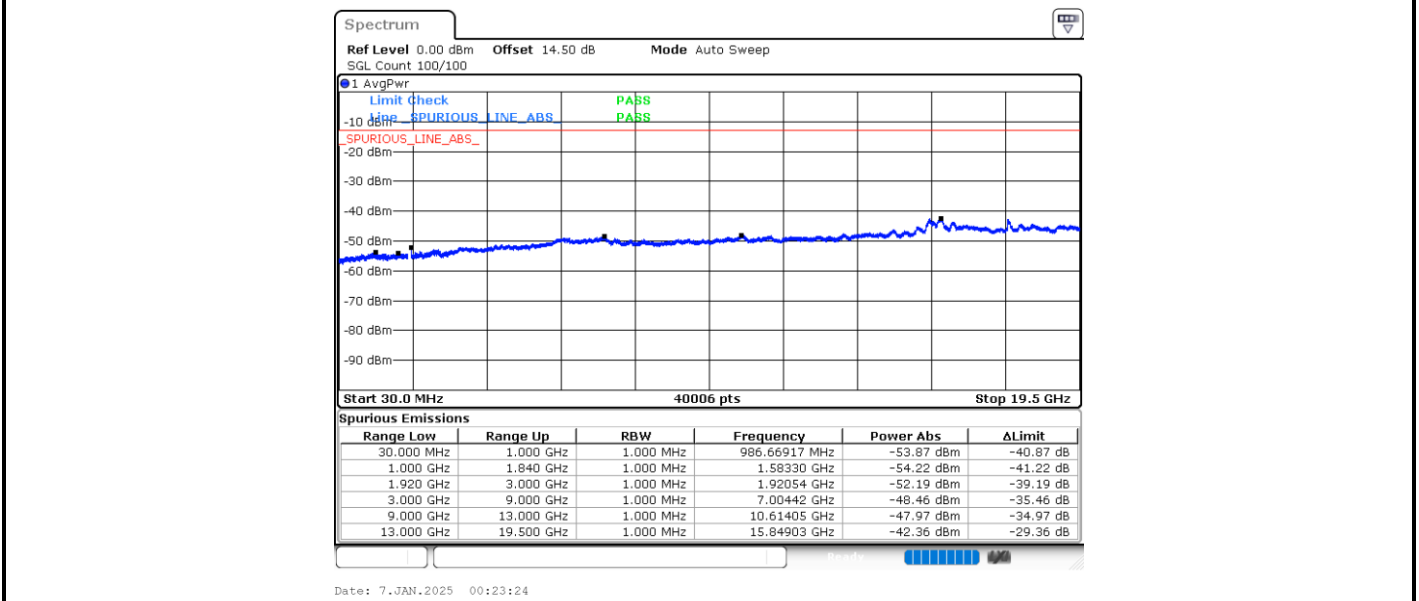
Lowest Channel / QPSK



Middle Channel / QPSK



Highest Channel / QPSK





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	0.0004	PASS
40	Normal Voltage	0.0002	
30	Normal Voltage	0.0003	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0017	
0	Normal Voltage	0.0018	
-10	Normal Voltage	0.0007	
-20	Normal Voltage	0.0010	
-30	Normal Voltage	0.0008	
20	Maximum Voltage	0.0016	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0001	

Note:

1. Normal Voltage = 3.91V ; Minimum Voltage = 3.6 V ; Maximum Voltage =4.5 V
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 12

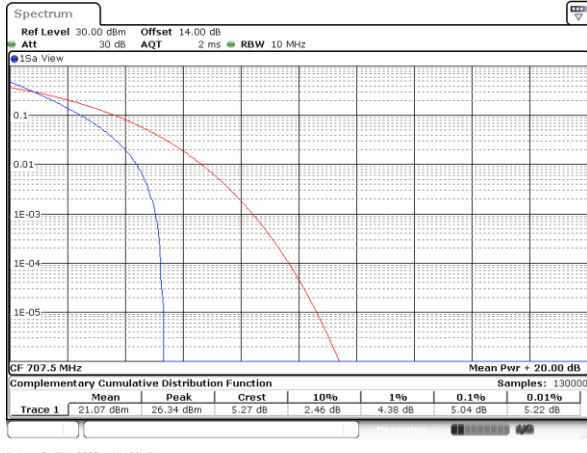
Peak-to-Average Ratio

Mode	LTE Band 12 / 10MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	5.04	5.77	6.14	PASS



LTE Band 12 / 10MHz / QPSK

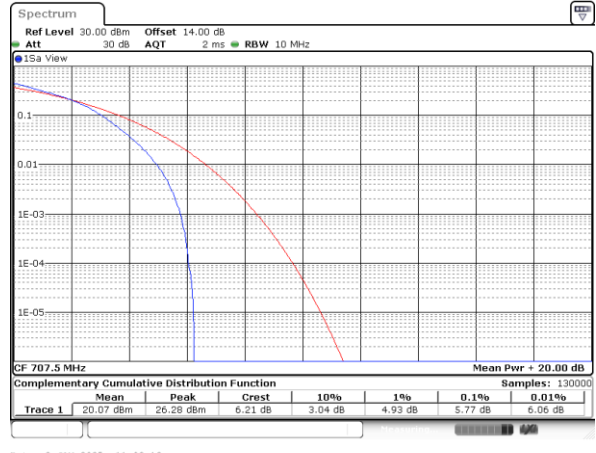
Middle Channel / Full RB



Date: 2, JAN, 2025 11:10:41

LTE Band 12 / 10MHz / 16QAM

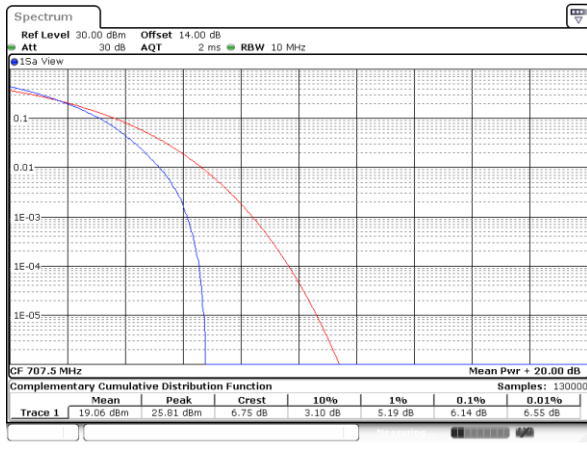
Middle Channel / Full RB



Date: 2, JAN, 2025 11:02:12

LTE Band 12 / 10MHz / 64QAM

Middle Channel / Full RB



Date: 2, JAN, 2025 11:03:20



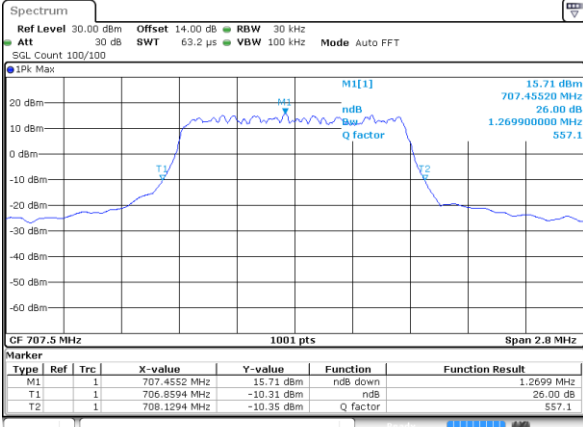
26dB Bandwidth

Mode	LTE Band 12 : 26dB BW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW												
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	1.27	1.26	2.98	2.99	4.82	4.86	9.79	9.77	-	-	-	-



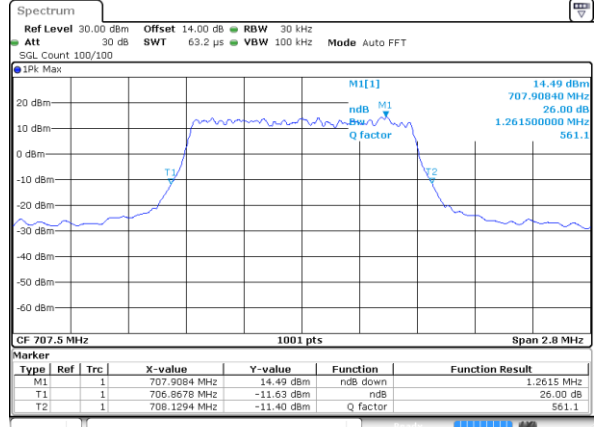
LTE Band 12

Middle Channel / 1.4MHz / QPSK



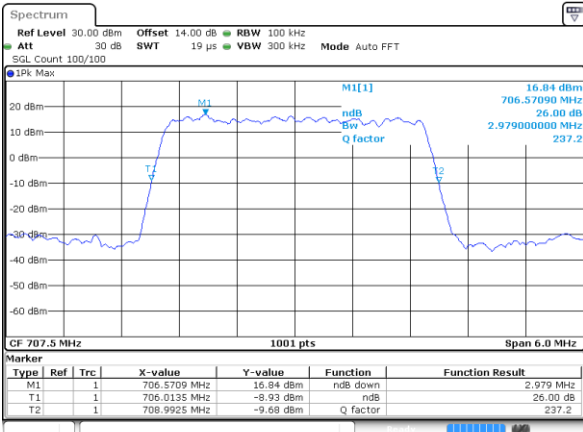
Date: 28 DEC 2024 01:32:34

Middle Channel / 1.4MHz / 16QAM



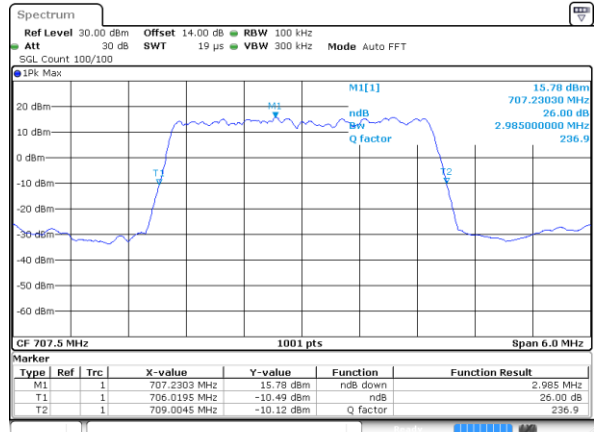
Date: 28 DEC 2024 01:33:17

Middle Channel / 3MHz / QPSK



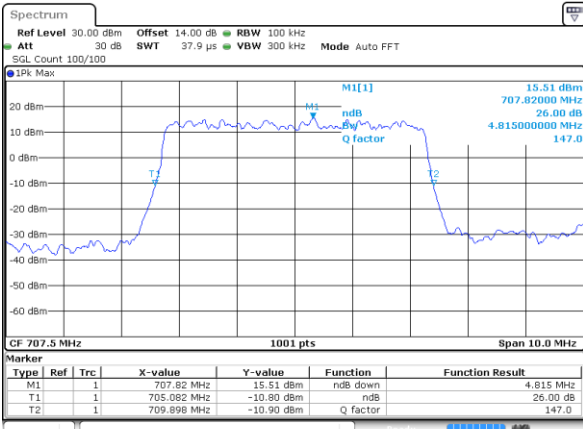
Date: 28 DEC 2024 01:50:54

Middle Channel / 3MHz / 16QAM



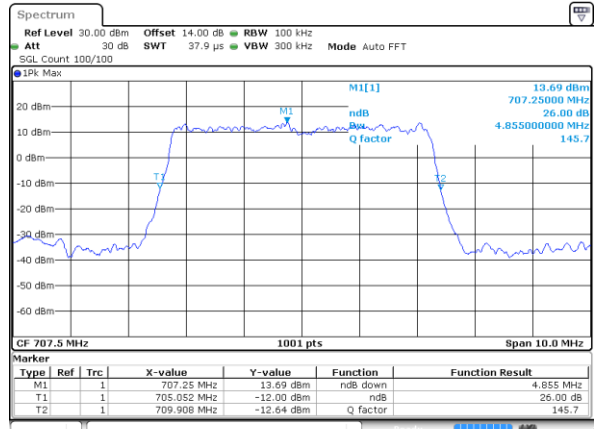
Date: 28 DEC 2024 01:51:34

Middle Channel / 5MHz / QPSK



Date: 28 DEC 2024 02:08:06

Middle Channel / 5MHz / 16QAM

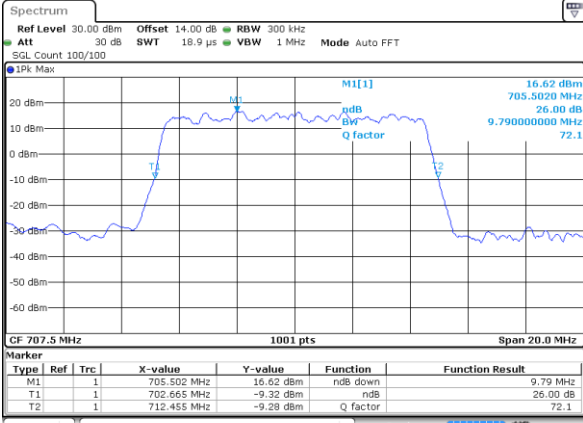


Date: 28 DEC 2024 02:08:45



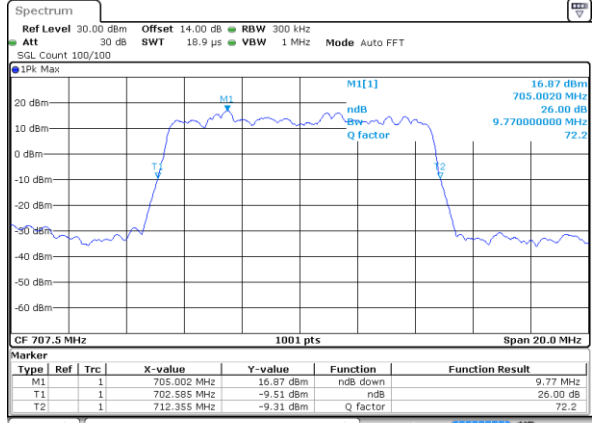
LTE Band 12

Middle Channel / 10MHz / QPSK



Date: 28 DEC 2024 02:25:16

Middle Channel / 10MHz / 16QAM



Date: 28 DEC 2024 02:25:56



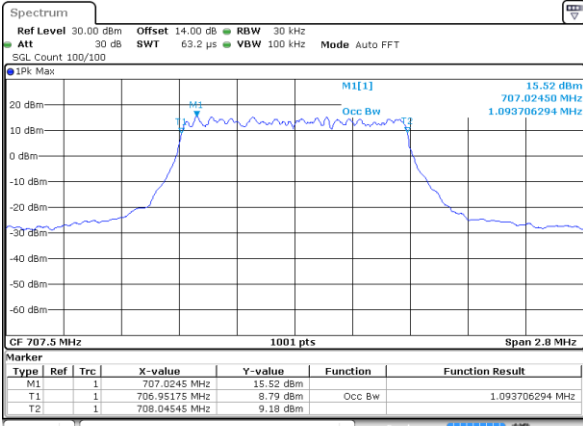
Occupied Bandwidth

Mode	LTE Band 12 : 99%OBW(MHz)											
	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	4.50	4.50	9.03	9.05	-	-	-	-



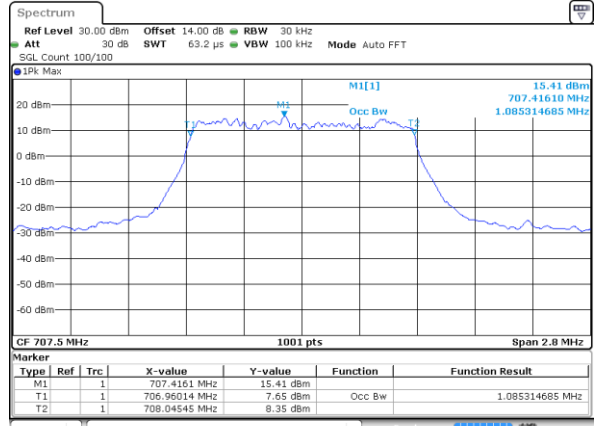
LTE Band 12

Middle Channel / 1.4MHz / QPSK



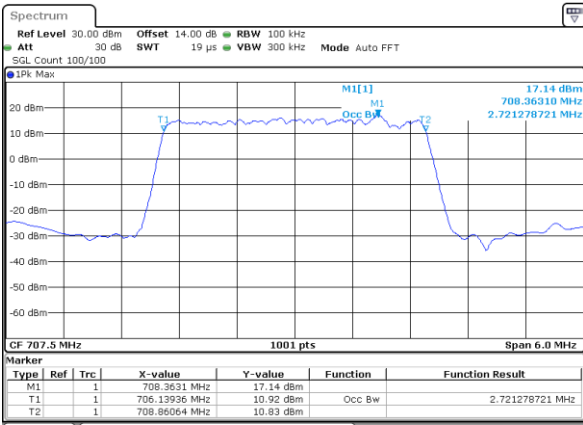
Date: 28 DEC 2024 01:32:17

Middle Channel / 1.4MHz / 16QAM



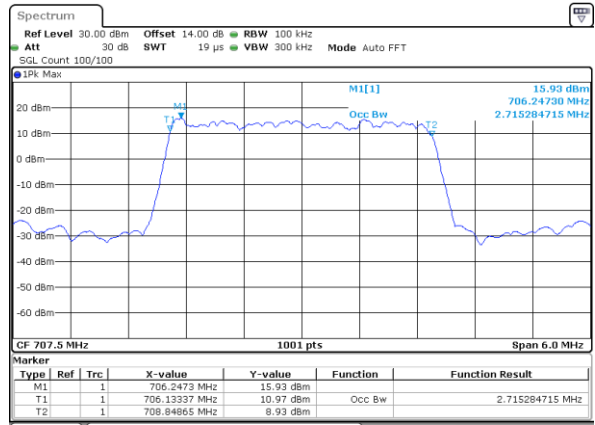
Date: 28 DEC 2024 01:33:03

Middle Channel / 3MHz / QPSK



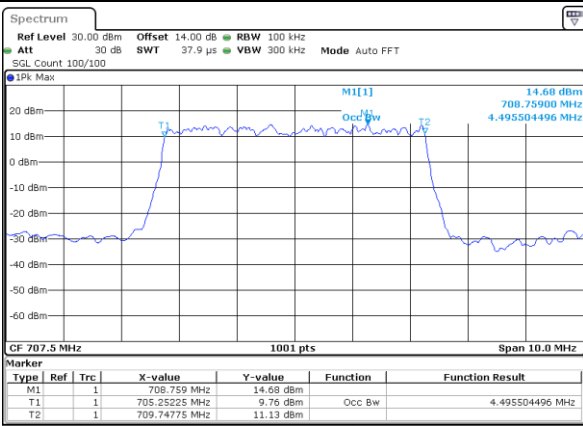
Date: 28 DEC 2024 01:50:40

Middle Channel / 3MHz / 16QAM



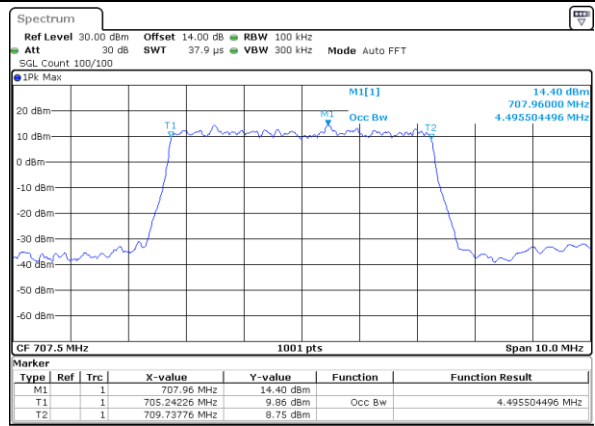
Date: 28 DEC 2024 01:51:20

Middle Channel / 5MHz / QPSK



Date: 28 DEC 2024 02:07:52

Middle Channel / 5MHz / 16QAM

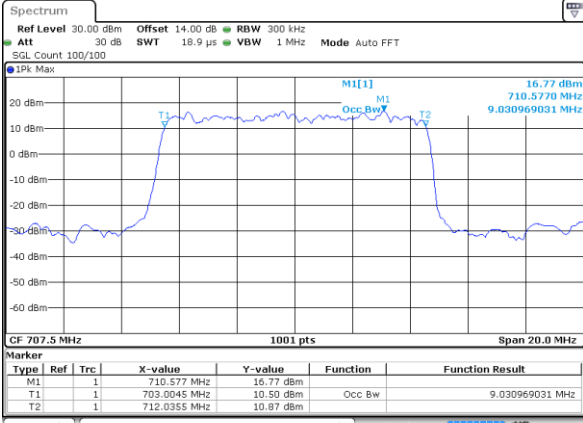


Date: 28 DEC 2024 02:08:32



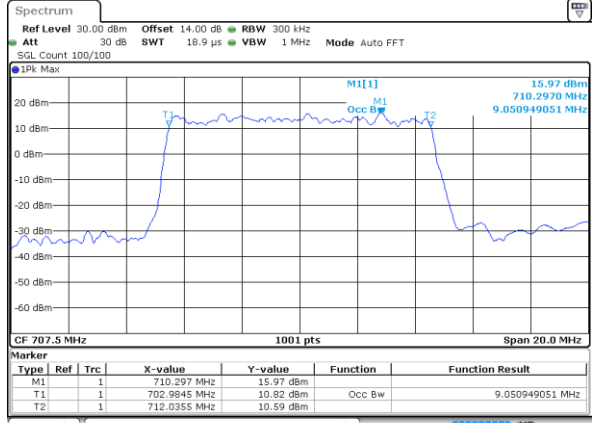
LTE Band 12

Middle Channel / 10MHz / QPSK



Date: 28 DEC 2024 02:25:02

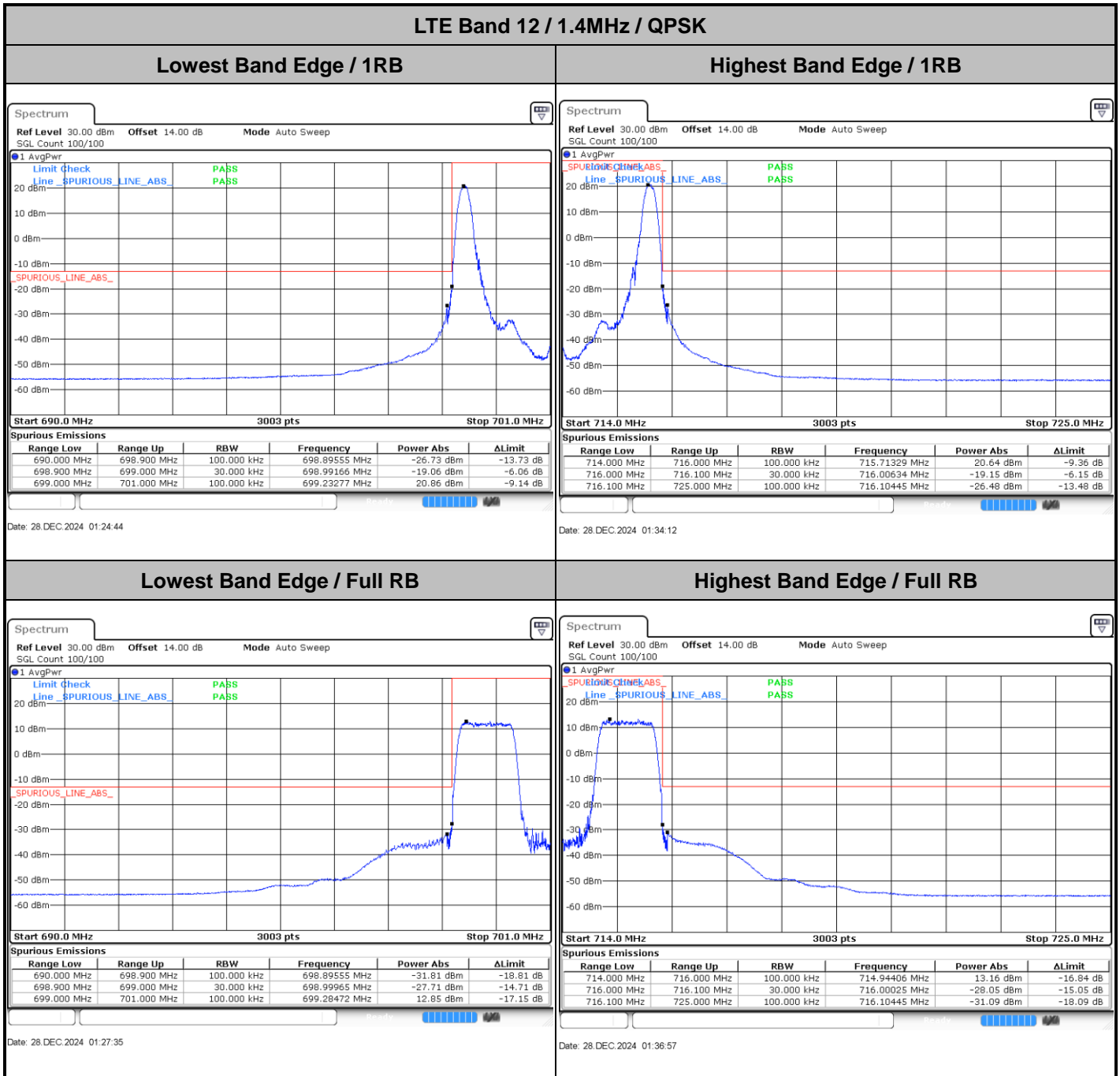
Middle Channel / 10MHz / 16QAM



Date: 28 DEC 2024 02:25:42



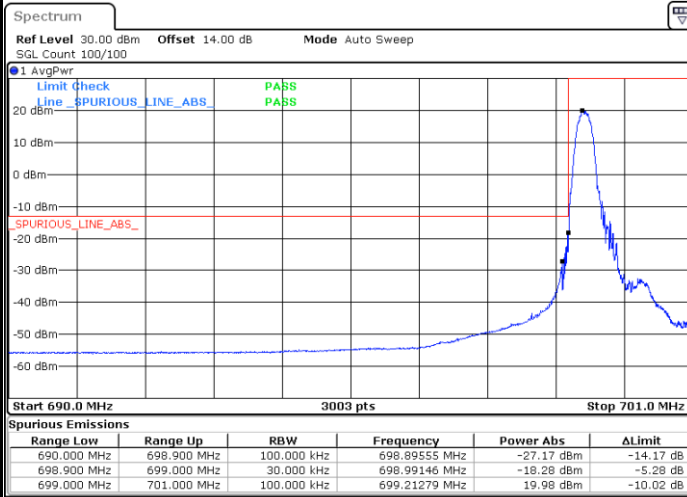
Conducted Band Edge





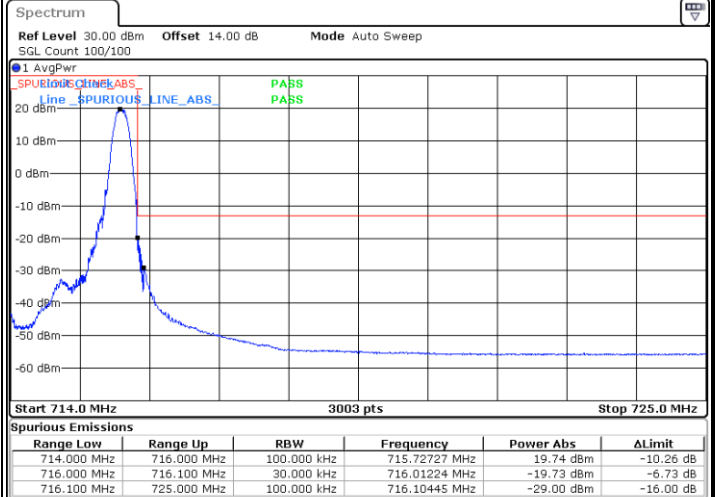
LTE Band 12 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



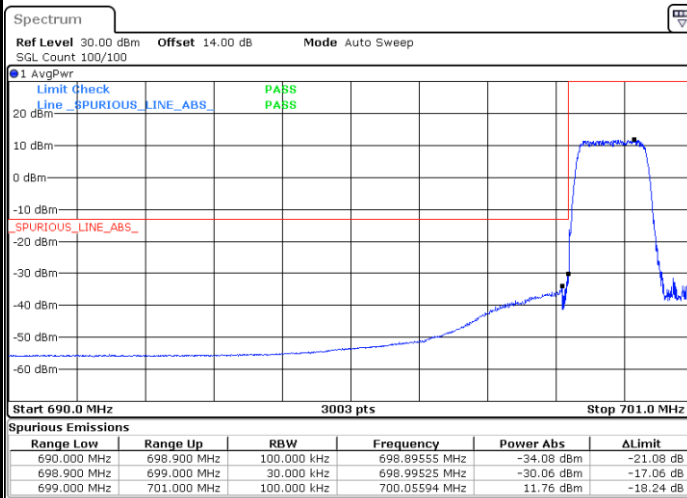
Date: 28 DEC 2024 01:25:41

Highest Band Edge / 1 RB



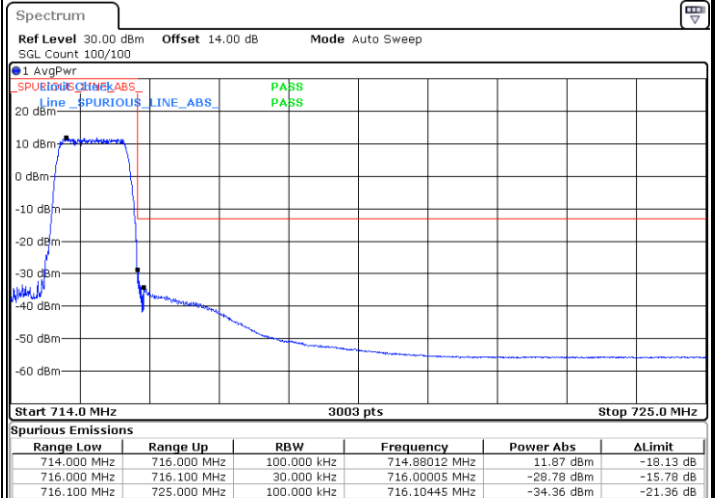
Date: 28 DEC 2024 01:35:07

Lowest Band Edge / Full RB



Date: 28 DEC 2024 01:28:32

Highest Band Edge / Full RB

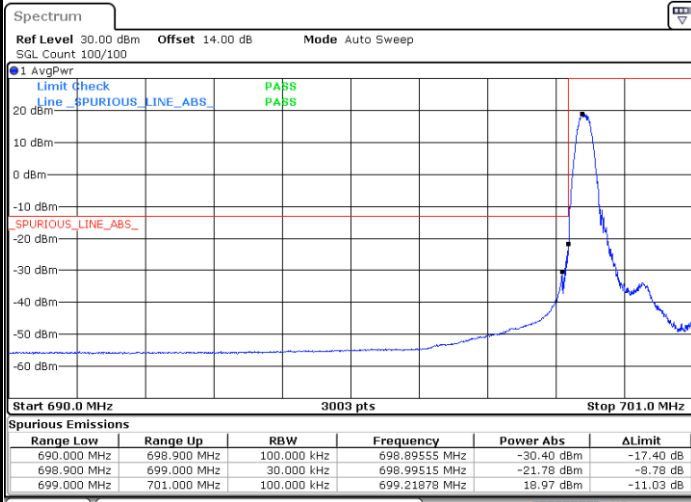


Date: 28 DEC 2024 01:37:53



LTE Band 12 / 1.4MHz / 64QAM

Lowest Band Edge / 1 RB



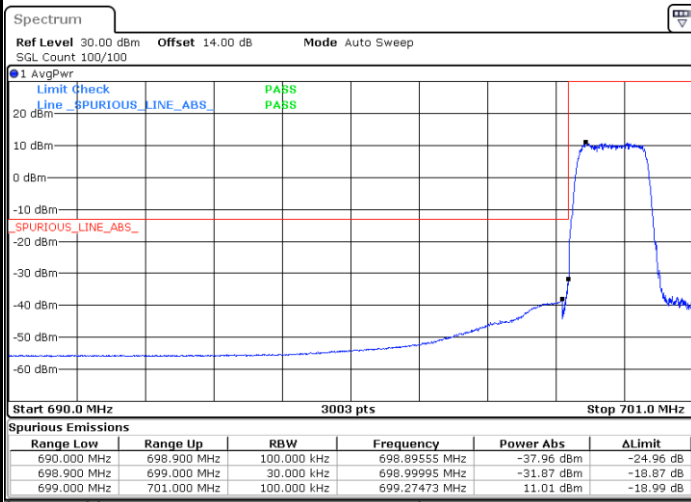
Date: 28 DEC 2024 01:26:39

Highest Band Edge / 1 RB



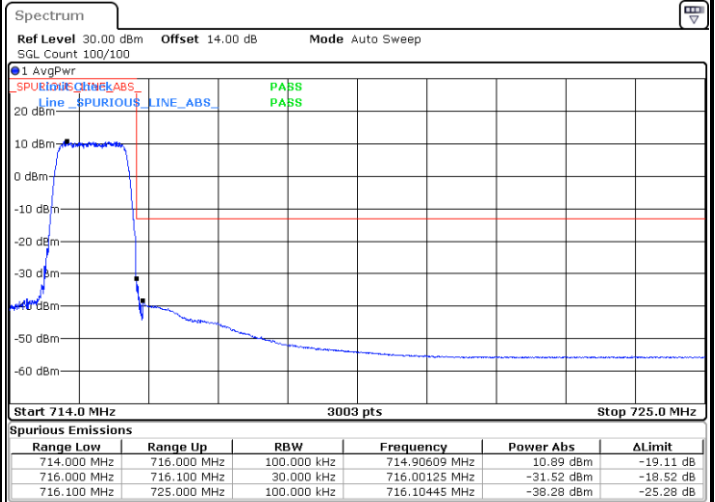
Date: 28 DEC 2024 01:36:02

Lowest Band Edge / Full RB



Date: 28 DEC 2024 01:29:30

Highest Band Edge / Full RB

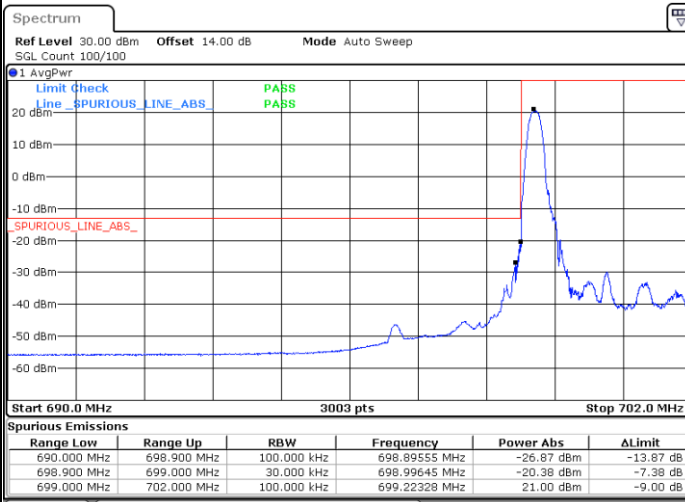


Date: 28 DEC 2024 01:38:48



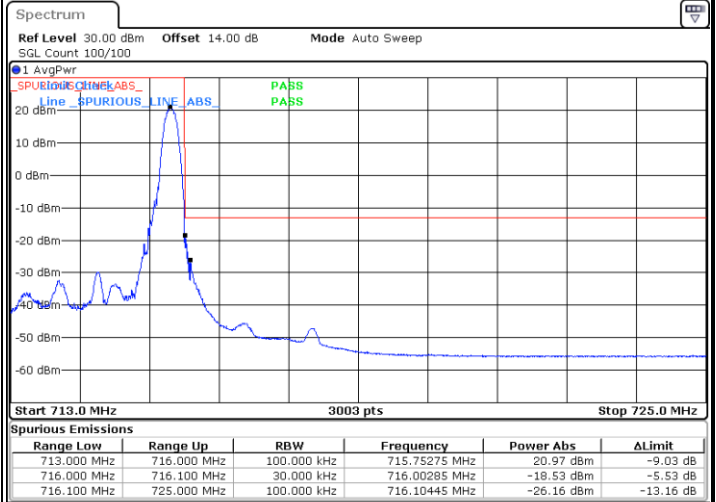
LTE Band 12 / 3MHz / QPSK

Lowest Band Edge / 1RB



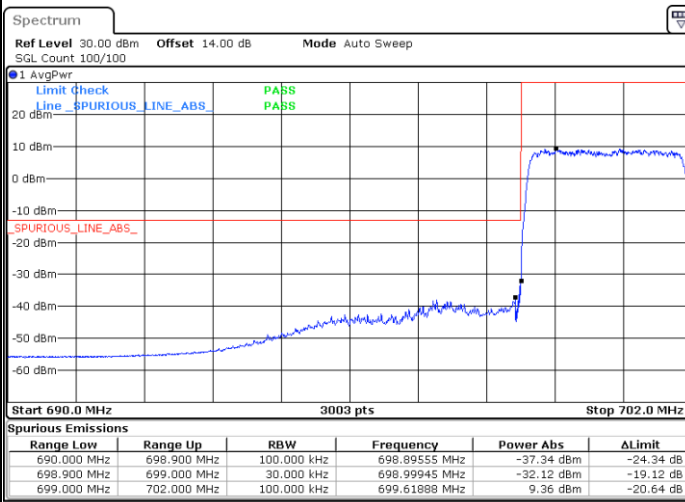
Date: 28 DEC 2024 01:43:26

Highest Band Edge / 1RB



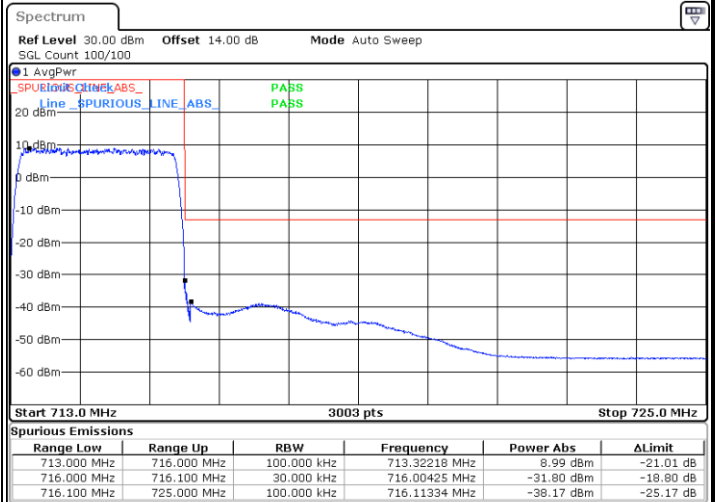
Date: 28 DEC 2024 01:52:29

Lowest Band Edge / Full RB



Date: 28 DEC 2024 01:46:13

Highest Band Edge / Full RB

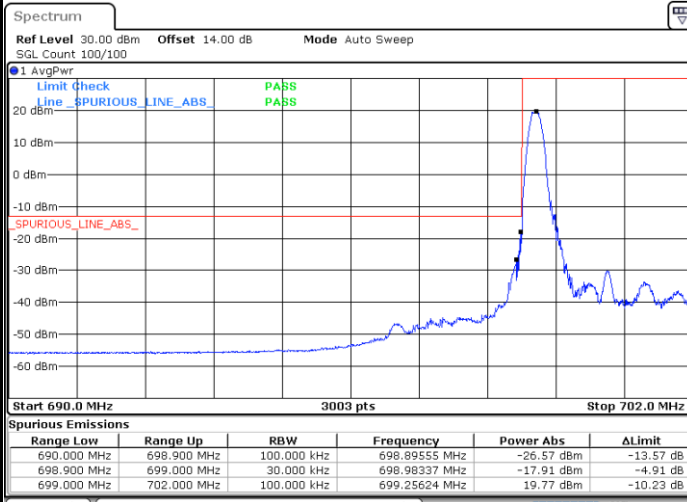


Date: 28 DEC 2024 01:55:16



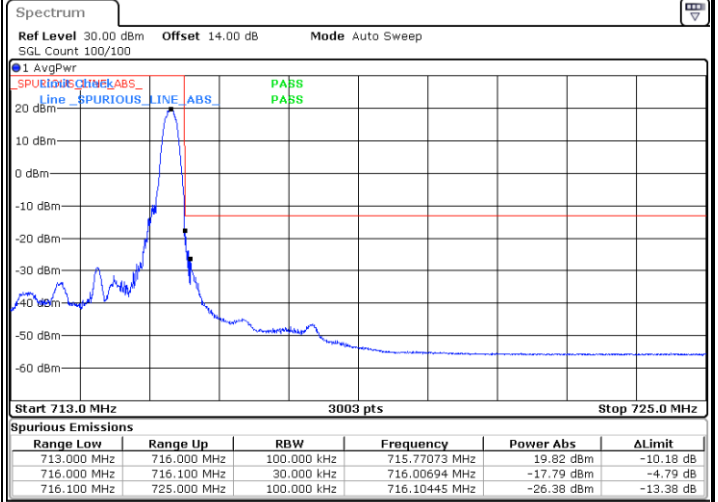
LTE Band 12 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



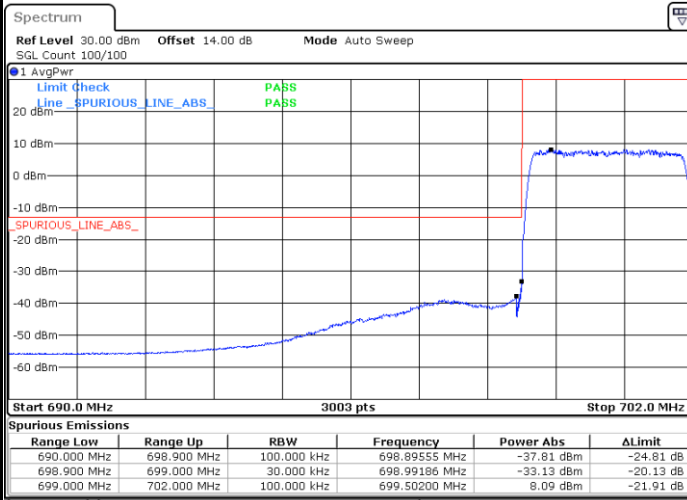
Date: 28 DEC 2024 01:44:21

Highest Band Edge / 1 RB



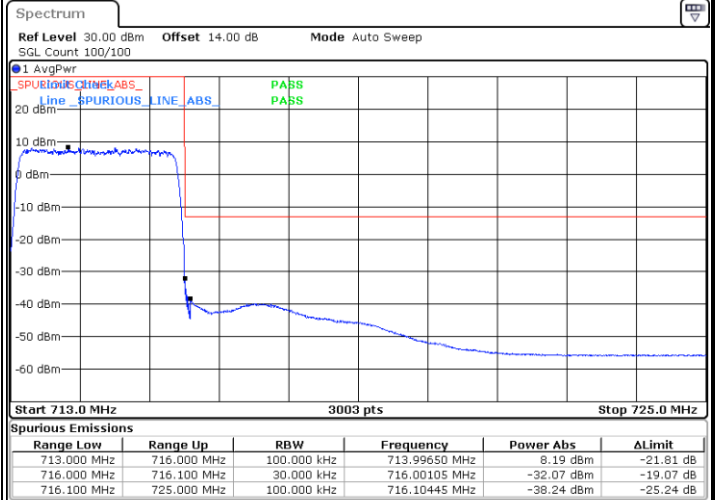
Date: 28 DEC 2024 01:53:25

Lowest Band Edge / Full RB



Date: 28 DEC 2024 01:47:09

Highest Band Edge / Full RB

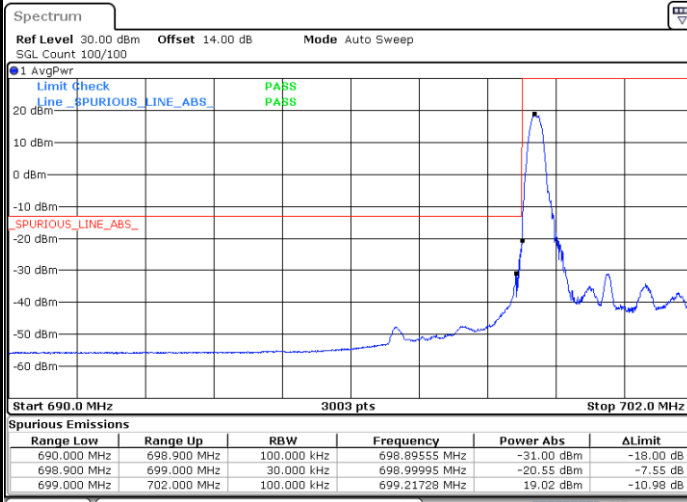


Date: 28 DEC 2024 01:56:12



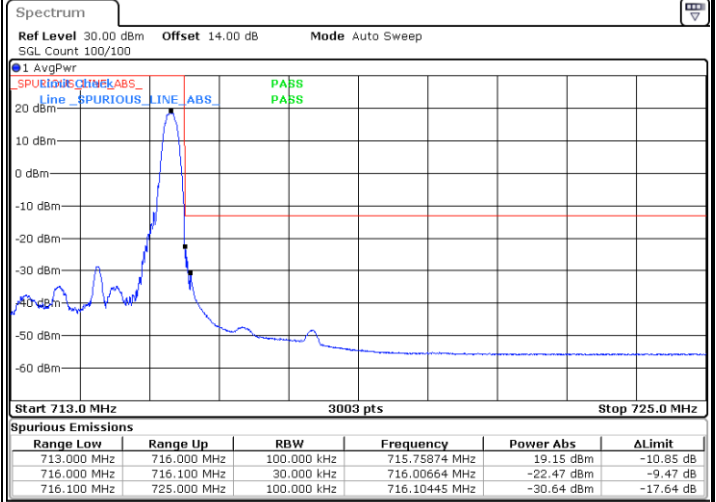
LTE Band 12 / 3MHz / 64QAM

Lowest Band Edge / 1 RB



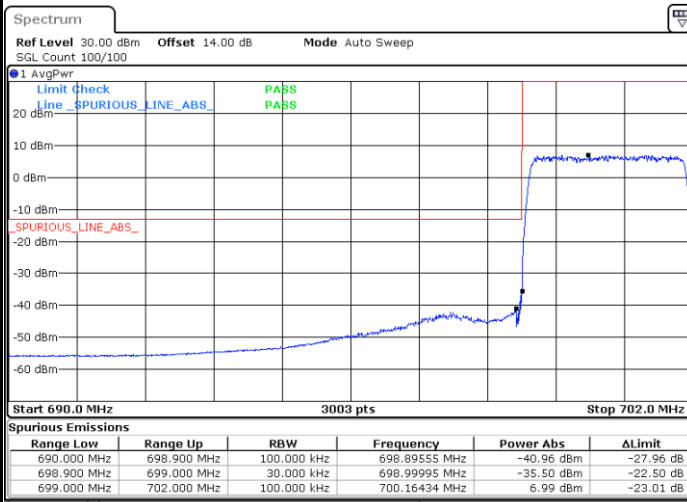
Date: 28 DEC 2024 01:45:17

Highest Band Edge / 1 RB



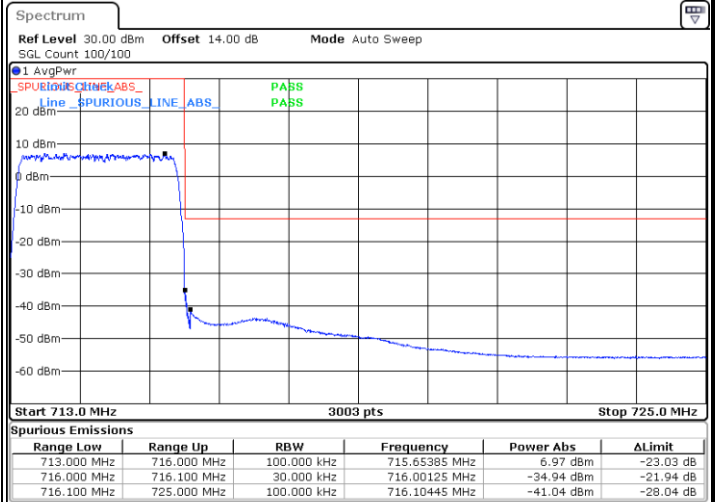
Date: 28 DEC 2024 01:54:21

Lowest Band Edge / Full RB



Date: 28 DEC 2024 01:48:04

Highest Band Edge / Full RB

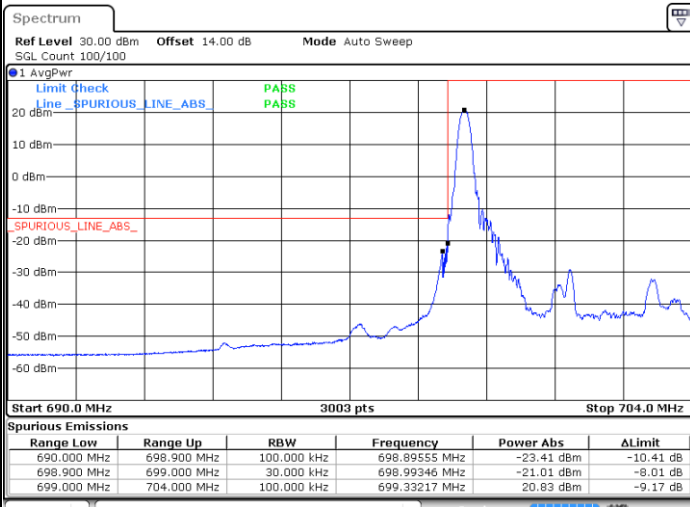


Date: 28 DEC 2024 01:57:08



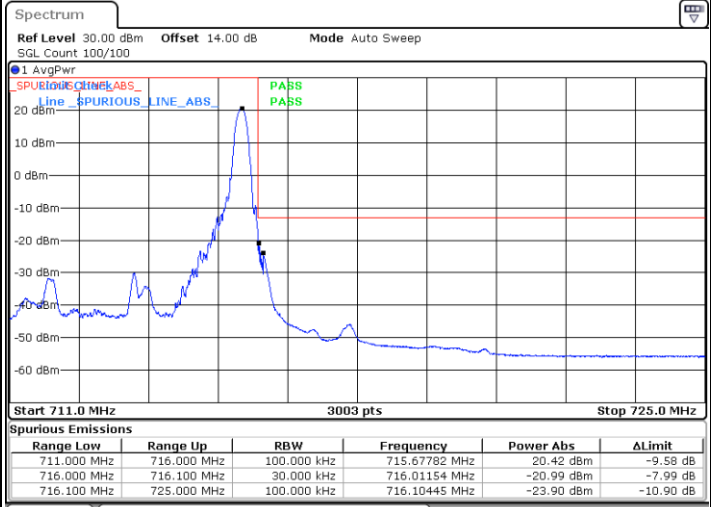
LTE Band 12 / 5MHz / QPSK

Lowest Band Edge / 1RB



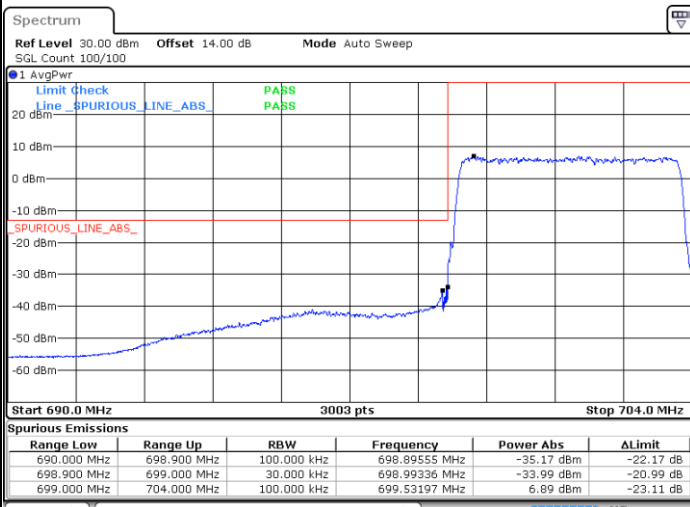
Date: 28 DEC.2024 02:00:37

Highest Band Edge / 1RB



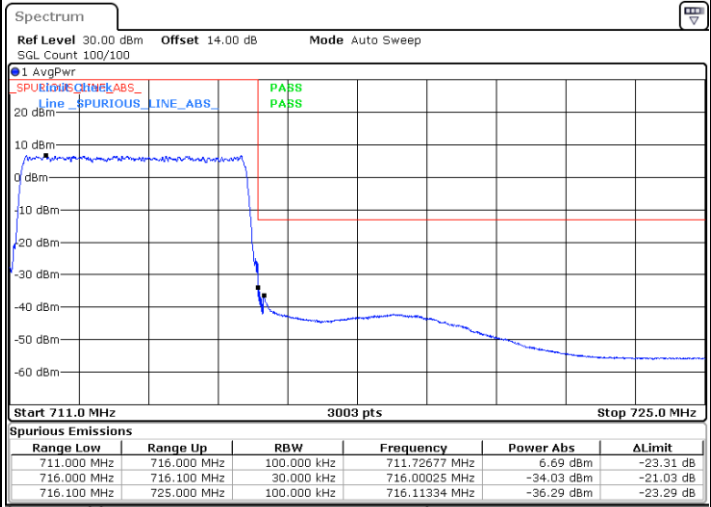
Date: 28 DEC.2024 02:09:40

Lowest Band Edge / Full RB



Date: 28 DEC.2024 02:03:24

Highest Band Edge / Full RB

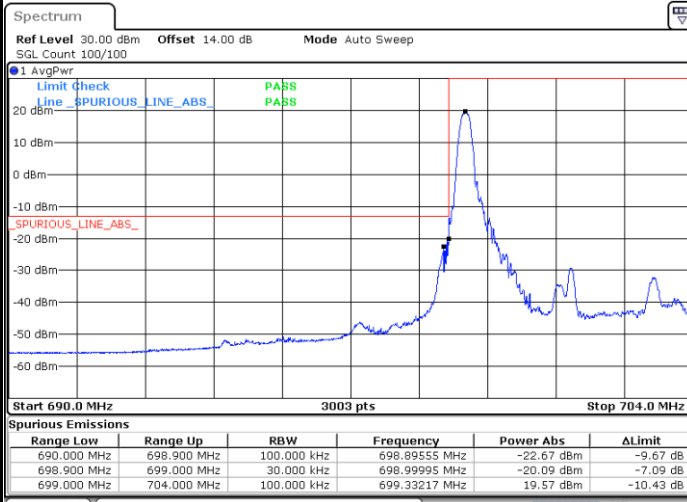


Date: 28 DEC.2024 02:12:28



LTE Band 12 / 5MHz / 16QAM

Lowest Band Edge / 1 RB



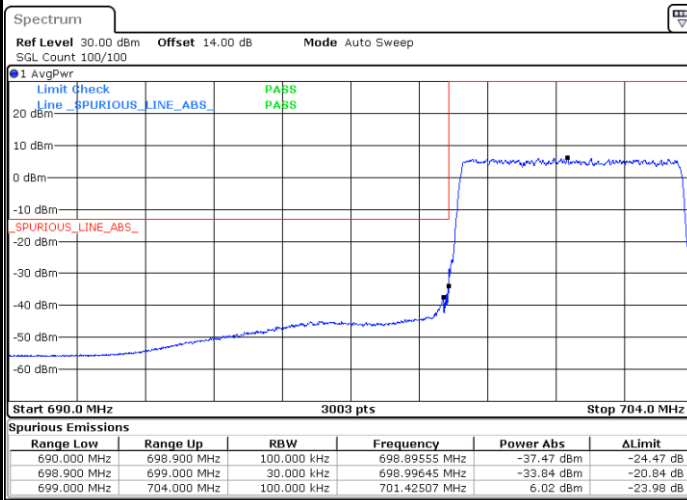
Date: 28 DEC 2024 02:01:33

Highest Band Edge / 1 RB



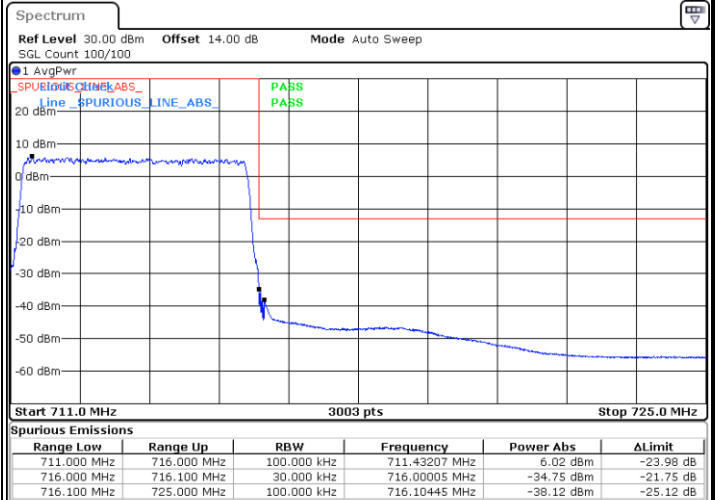
Date: 28 DEC 2024 02:10:36

Lowest Band Edge / Full RB



Date: 28 DEC 2024 02:04:20

Highest Band Edge / Full RB

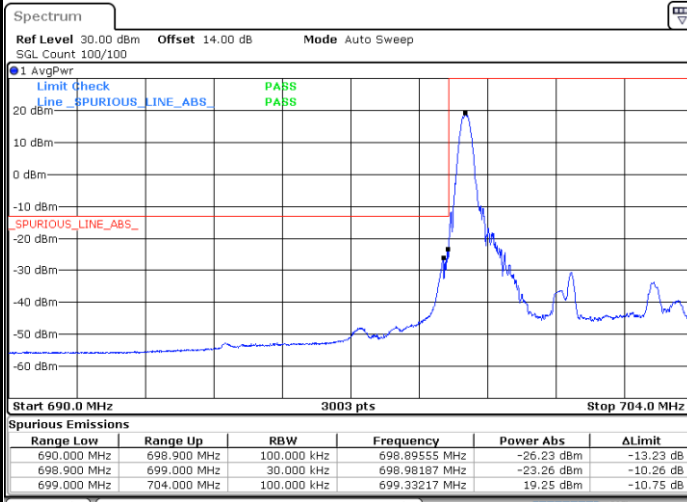


Date: 28 DEC 2024 02:13:24



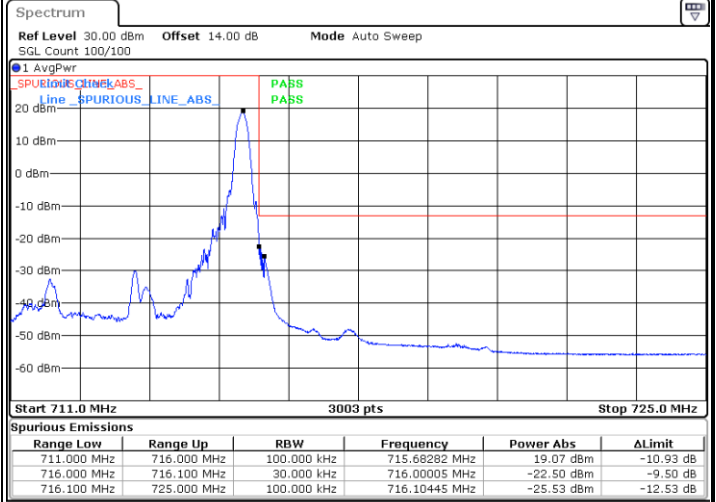
LTE Band 12 / 5MHz / 64QAM

Lowest Band Edge / 1 RB



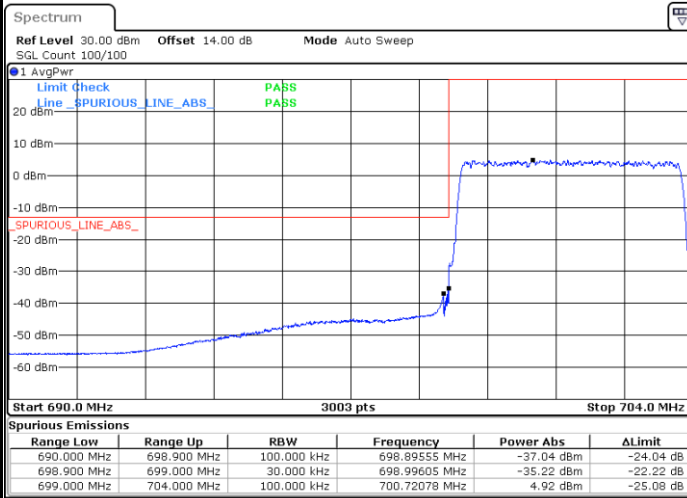
Date: 28 DEC 2024 02:02:28

Highest Band Edge / 1 RB



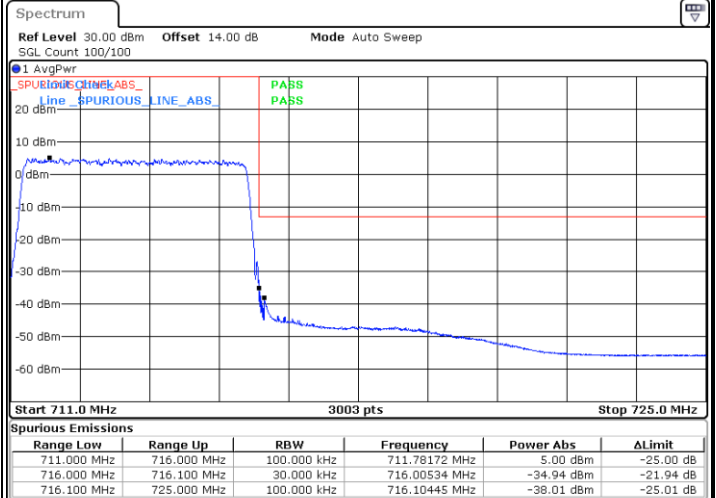
Date: 28 DEC 2024 02:11:32

Lowest Band Edge / Full RB



Date: 28 DEC 2024 02:05:15

Highest Band Edge / Full RB

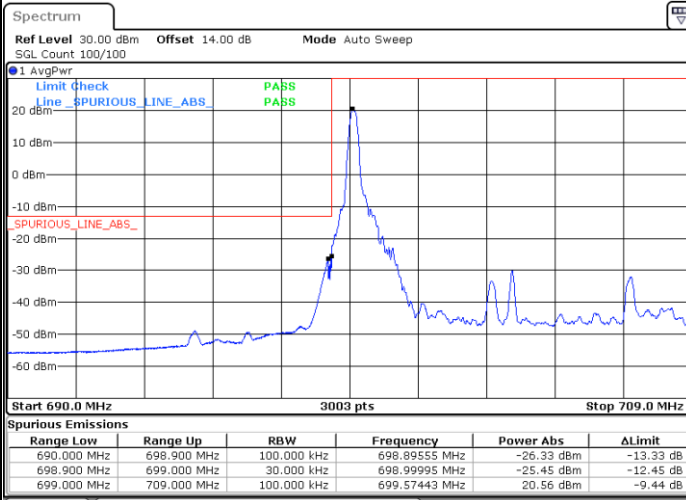


Date: 28 DEC 2024 02:14:19



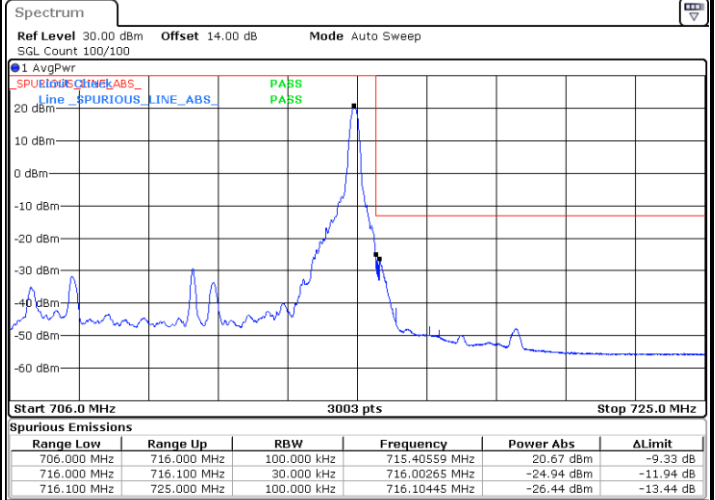
LTE Band 12 / 10MHz / QPSK

Lowest Band Edge / 1RB



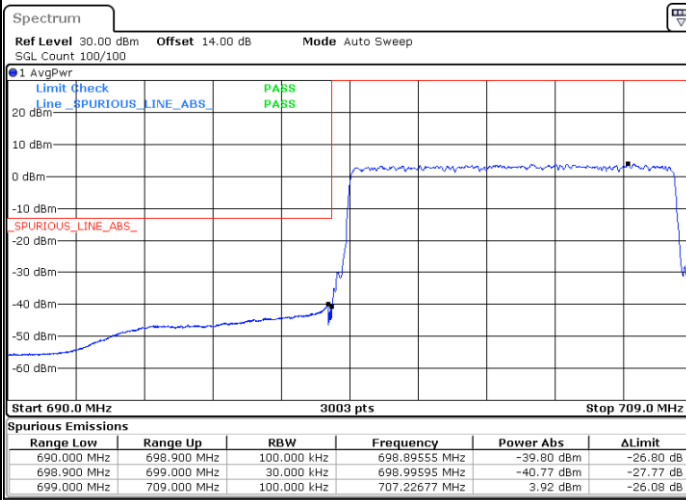
Date: 28 DEC. 2024 02:17:48

Highest Band Edge / 1RB



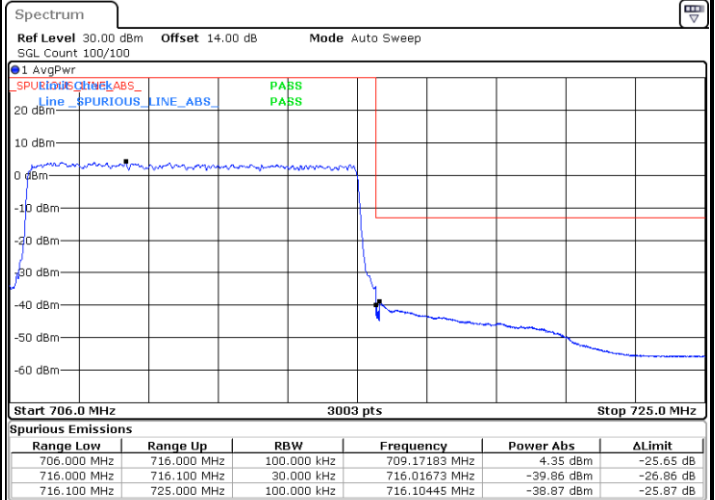
Date: 28 DEC. 2024 02:26:51

Lowest Band Edge / Full RB



Date: 28 DEC. 2024 02:20:35

Highest Band Edge / Full RB

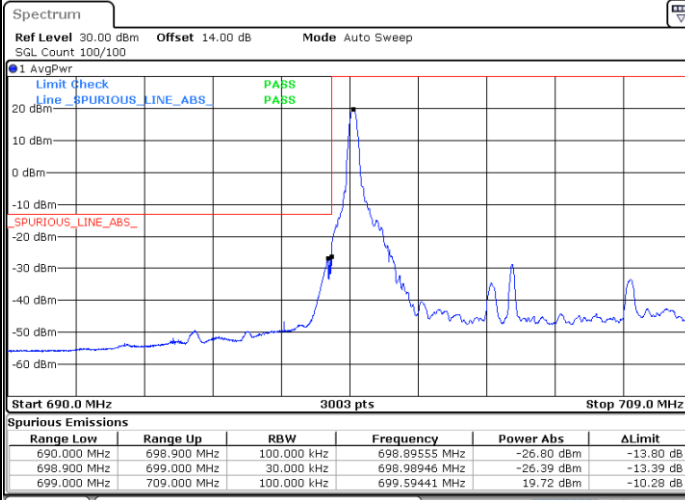


Date: 28 DEC. 2024 02:29:39



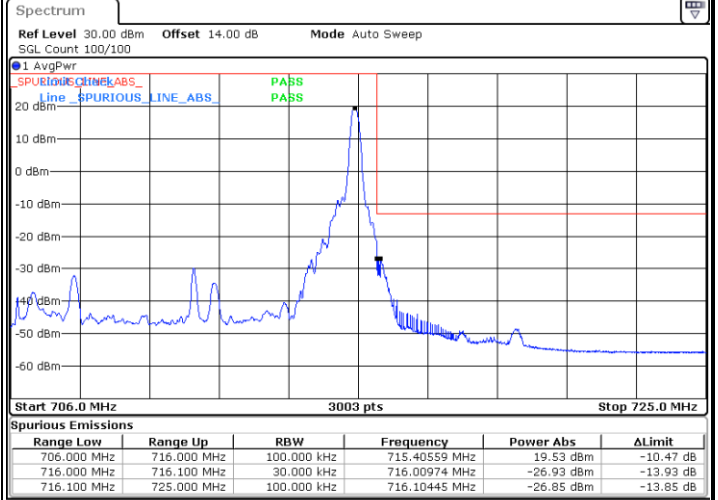
LTE Band 12 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



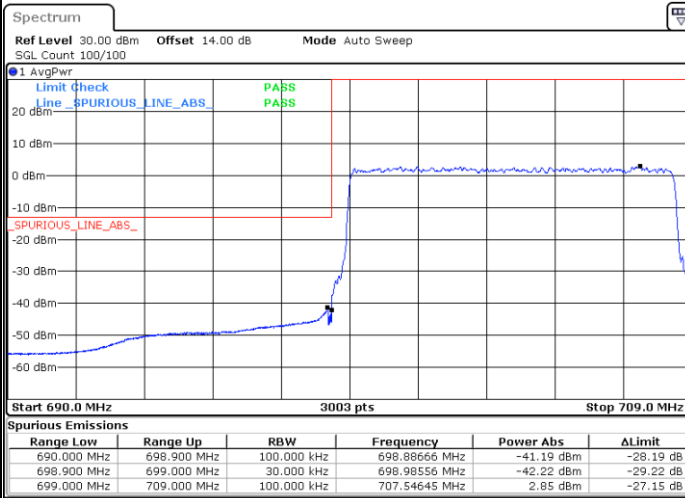
Date: 28 DEC 2024 02:18:43

Highest Band Edge / 1 RB



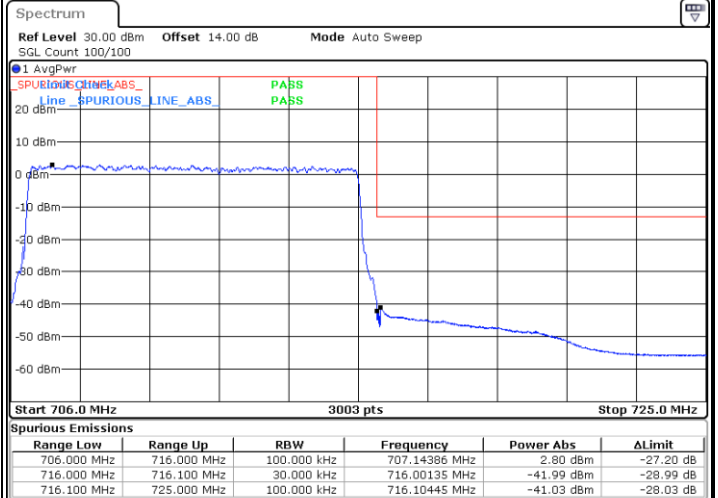
Date: 28 DEC 2024 02:27:47

Lowest Band Edge / Full RB



Date: 28 DEC 2024 02:21:31

Highest Band Edge / Full RB

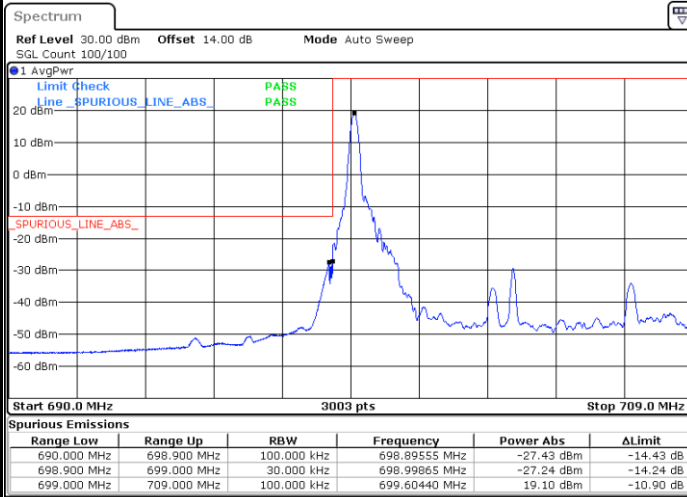


Date: 28 DEC 2024 02:30:34



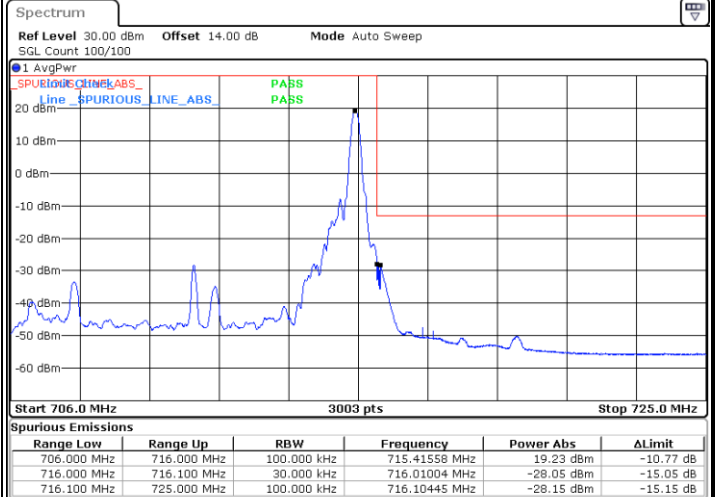
LTE Band 12 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



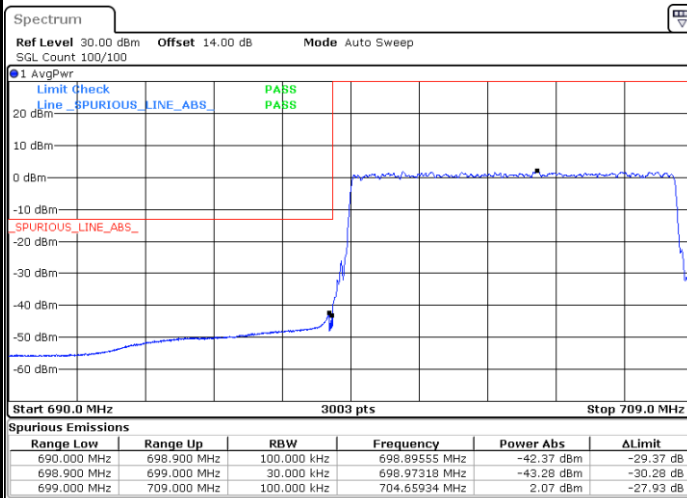
Date: 28 DEC 2024 02:19:39

Highest Band Edge / 1 RB



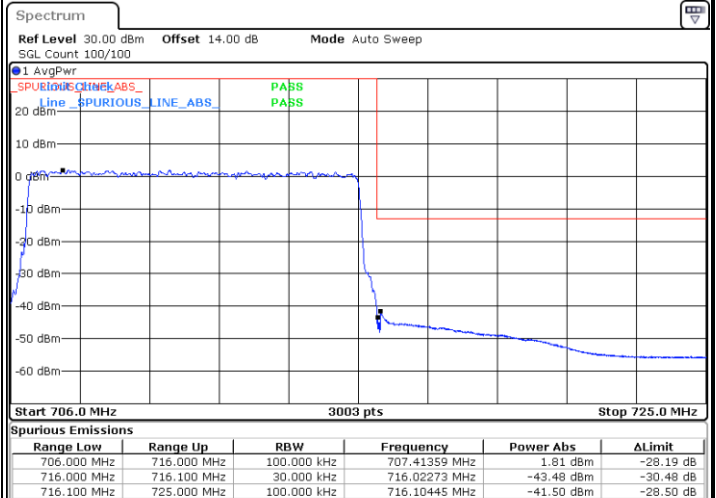
Date: 28 DEC 2024 02:28:43

Lowest Band Edge / Full RB



Date: 28 DEC 2024 02:22:27

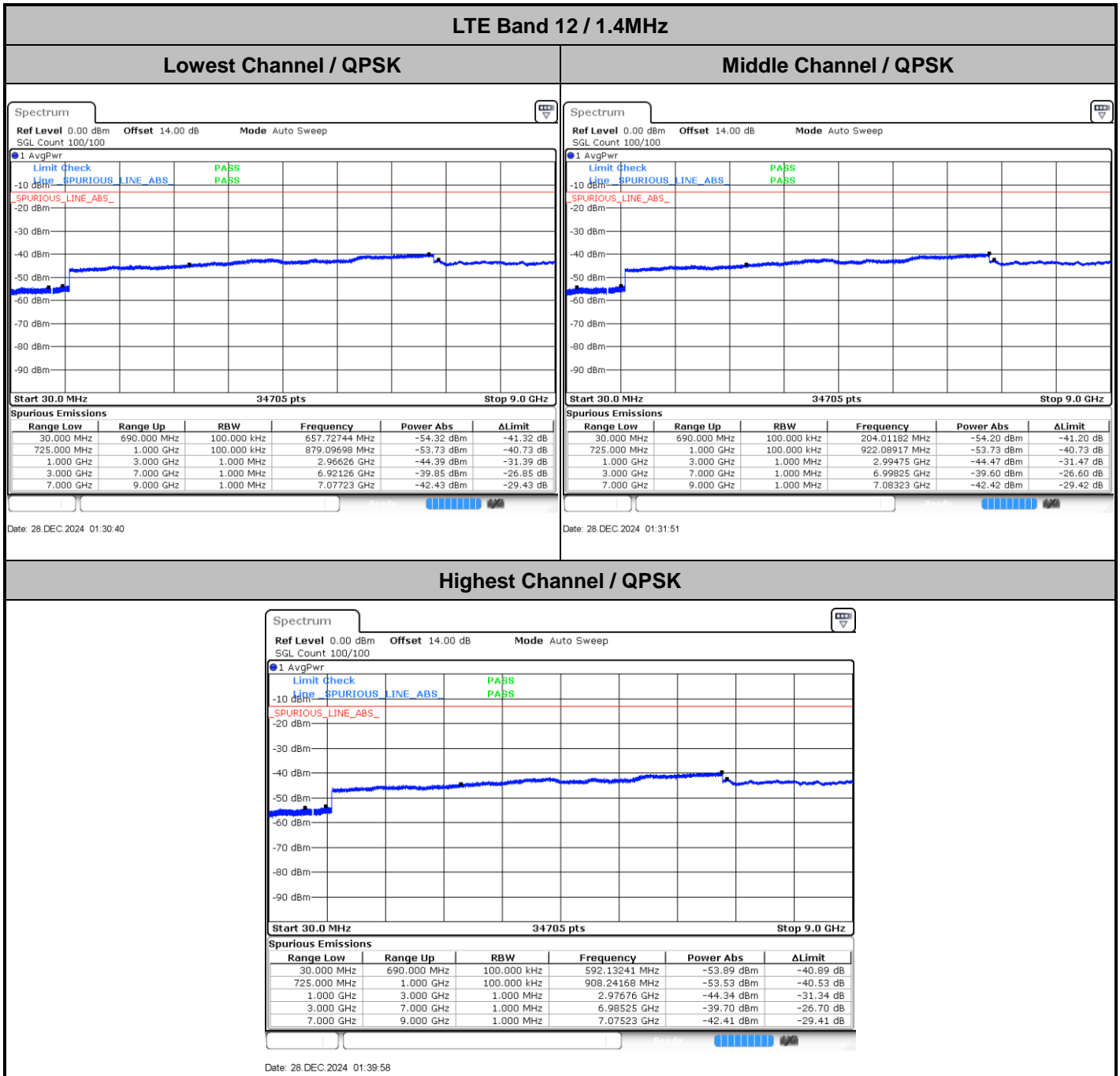
Highest Band Edge / Full RB



Date: 28 DEC 2024 02:31:30



Conducted Spurious Emission

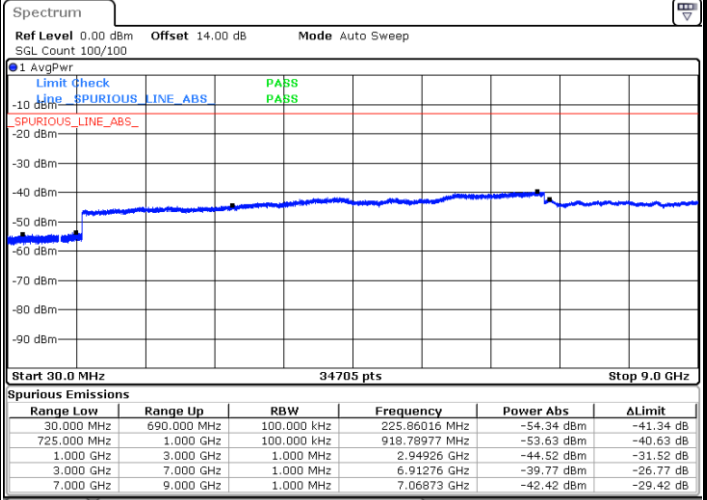
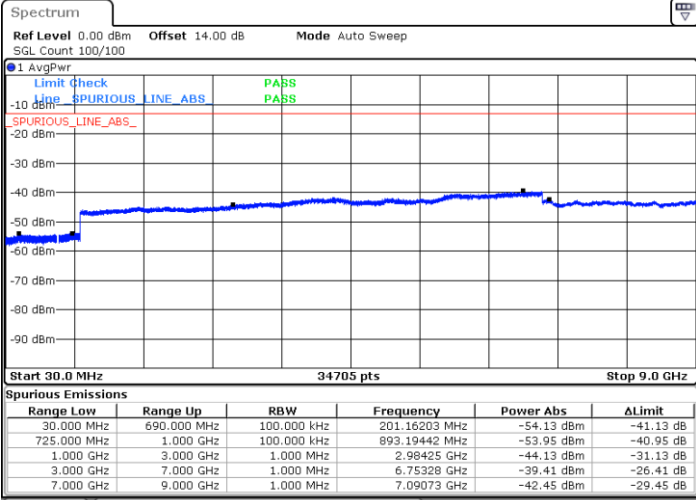




LTE Band 12 / 3MHz

Lowest Channel / QPSK

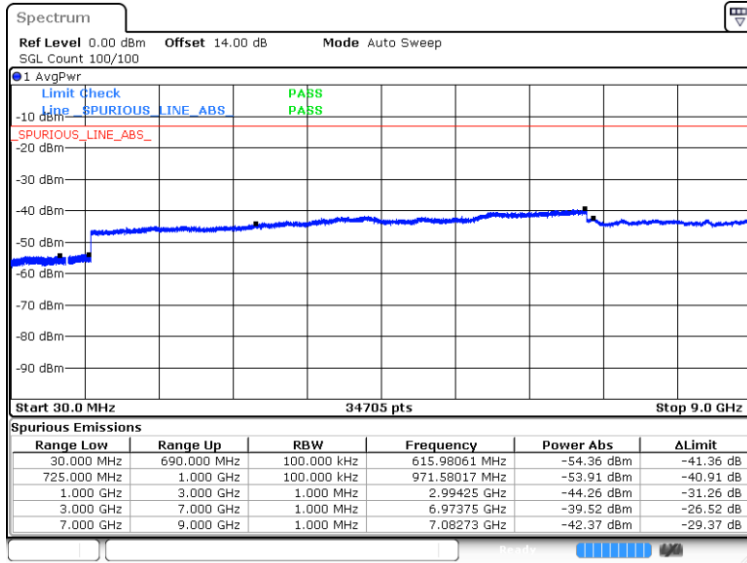
Middle Channel / QPSK



Date: 28.DEC.2024 01:49:10

Date: 28.DEC.2024 01:50:14

Highest Channel / QPSK

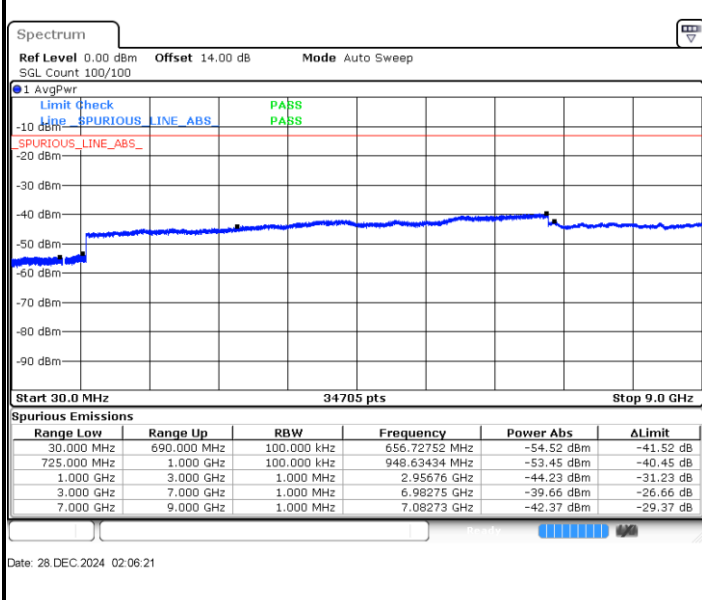


Date: 28.DEC.2024 01:58:13

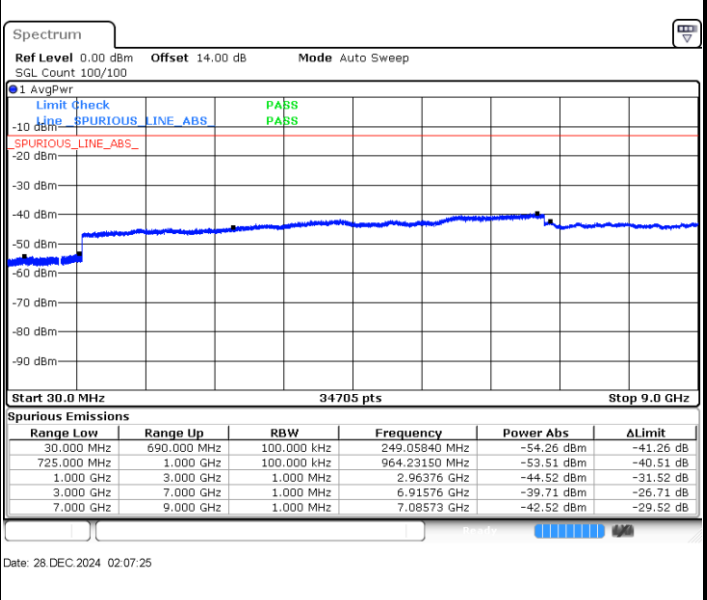


LTE Band 12 / 5MHz

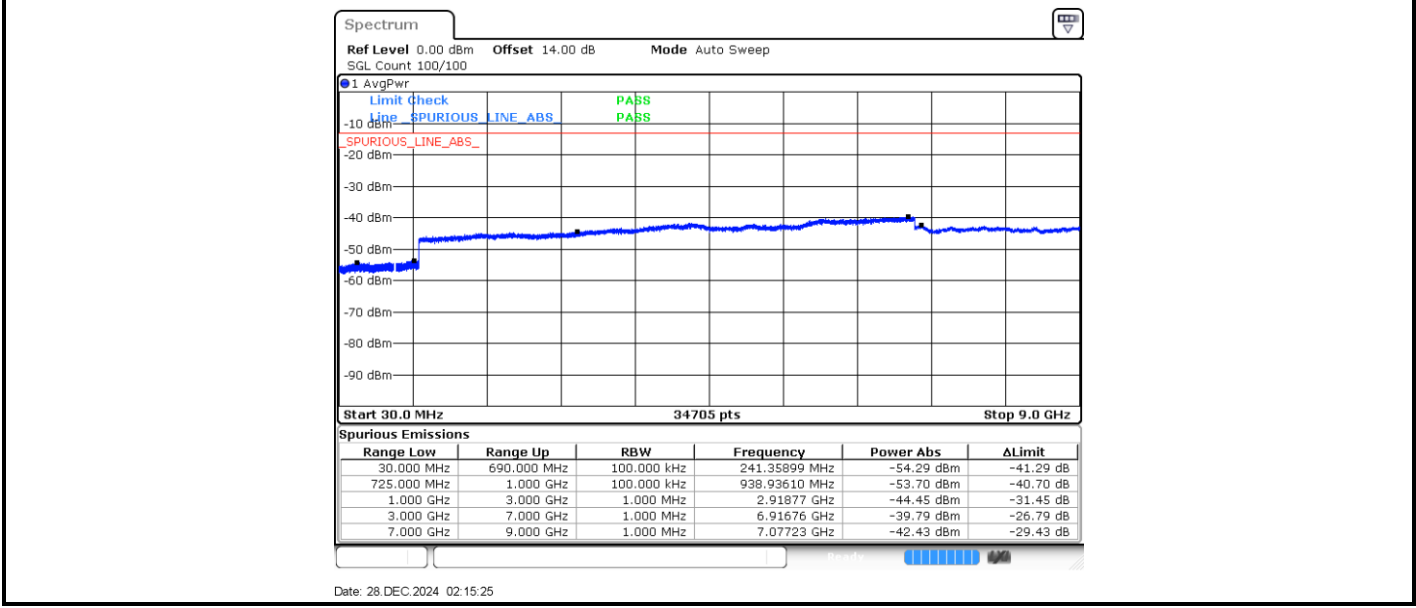
Lowest Channel / QPSK



Middle Channel / QPSK



Highest Channel / QPSK

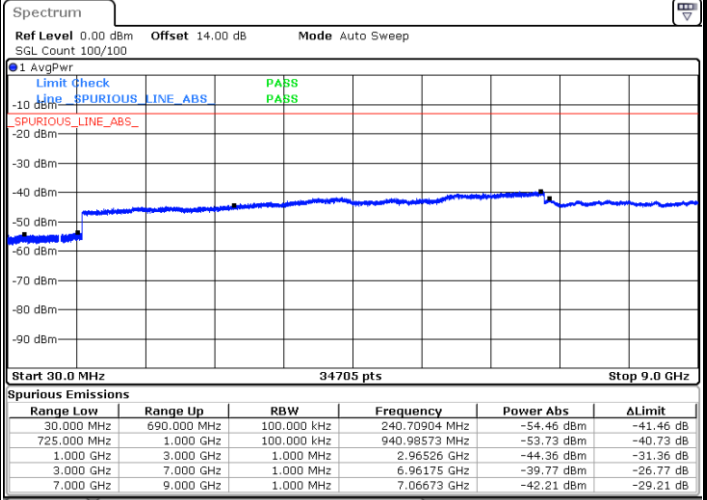
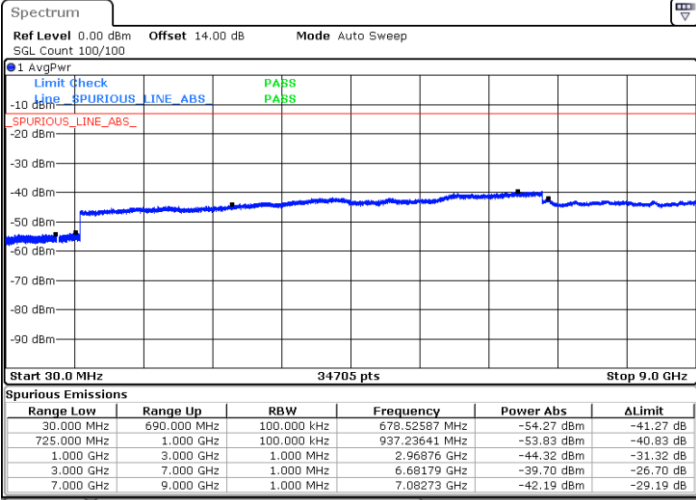




LTE Band 12 / 10MHz

Lowest Channel / QPSK

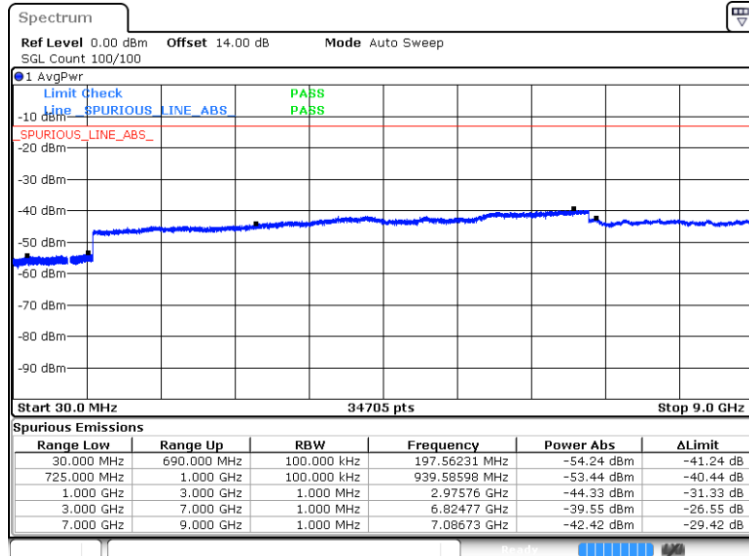
Middle Channel / QPSK



Date: 28 DEC 2024 02:23:32

Date: 28 DEC 2024 02:24:36

Highest Channel / QPSK



Date: 28 DEC 2024 02:32:36



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	0.0044	PASS
40	Normal Voltage	0.0047	
30	Normal Voltage	0.0008	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0073	
0	Normal Voltage	0.0007	
-10	Normal Voltage	0.0033	
-20	Normal Voltage	0.0004	
-30	Normal Voltage	0.0160	
20	Maximum Voltage	0.0180	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0016	

Note:

1. Normal Voltage = 3.91V ; Minimum Voltage = 3.6 V ; Maximum Voltage =4.5 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	5.77	6.23	PASS