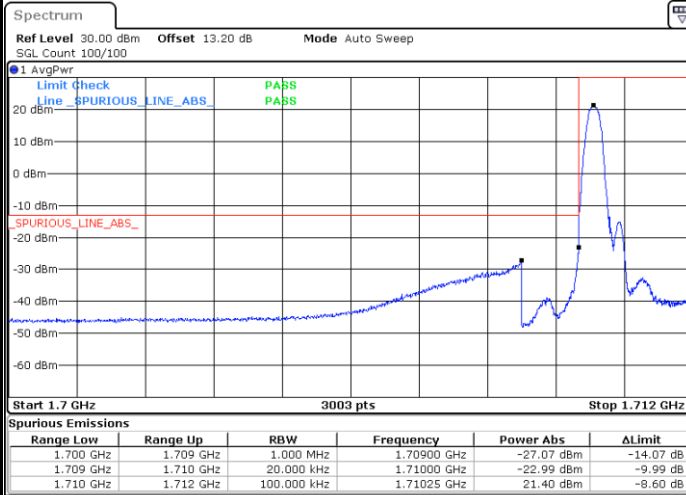




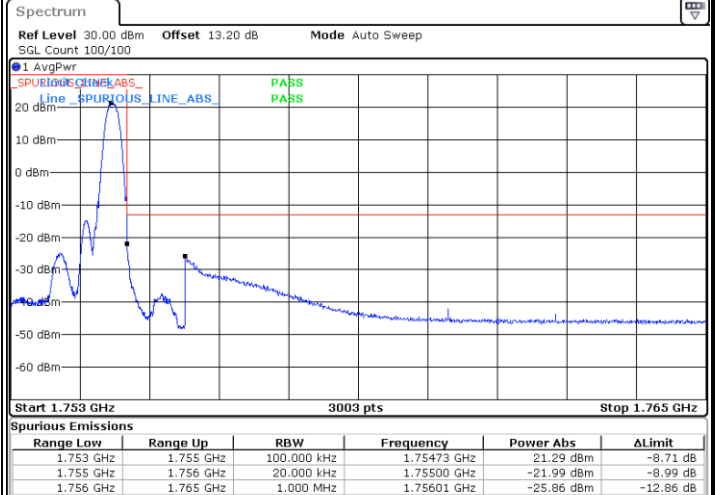
Conducted Band Edge

LTE Band 4 / 1.4MHz / QPSK

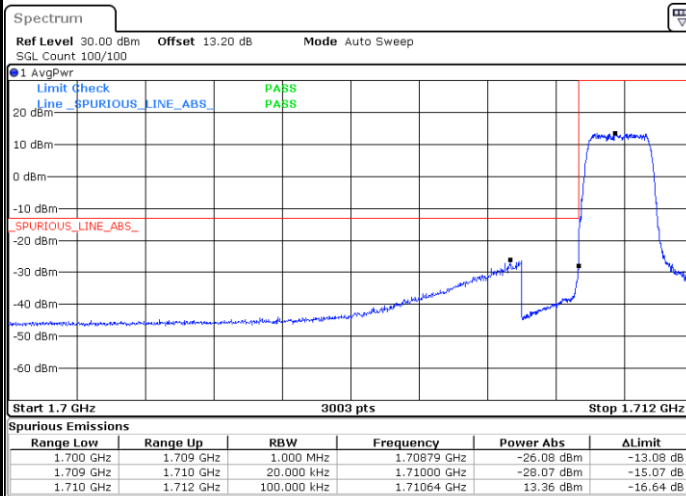
Lowest Band Edge / 1RB



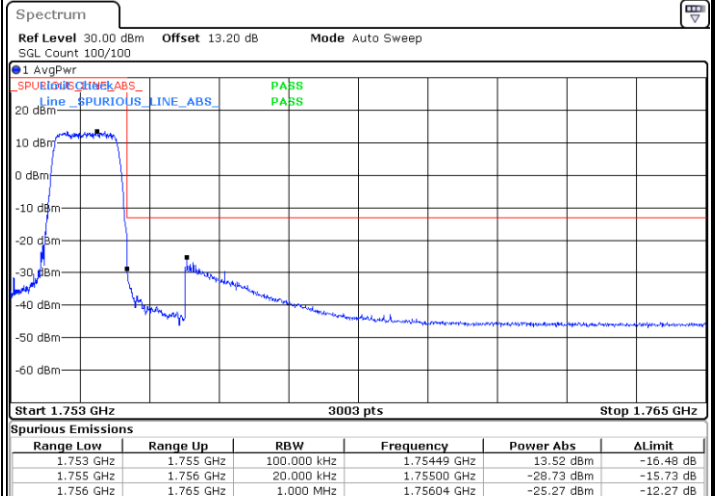
Highest Band Edge / 1RB



Lowest Band Edge / Full RB



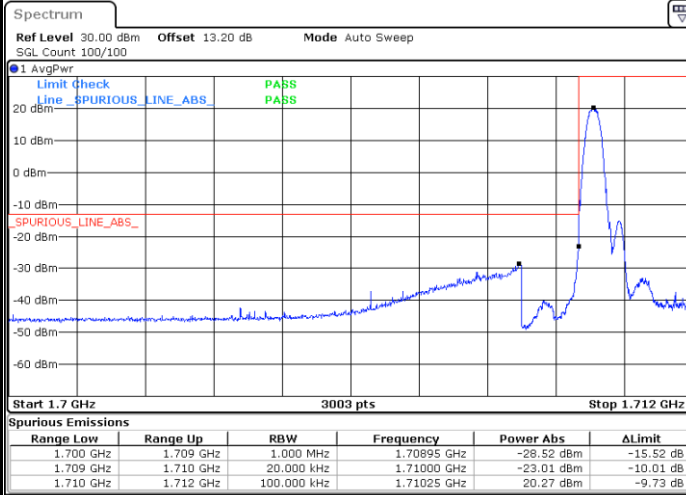
Highest Band Edge / Full RB



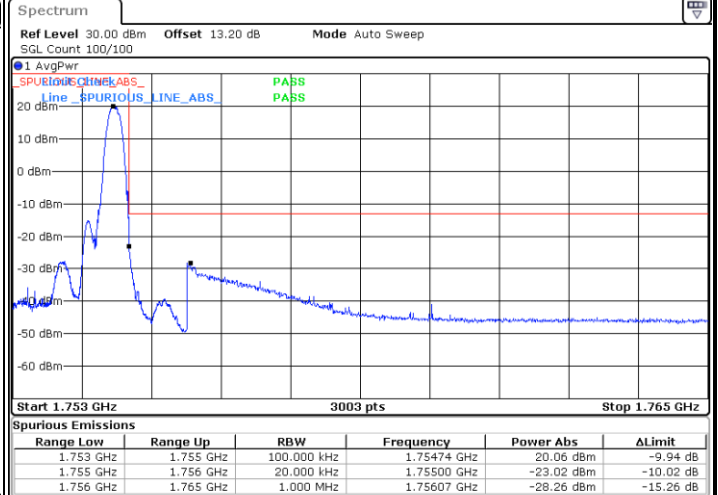


LTE Band 4 / 1.4MHz / 16QAM

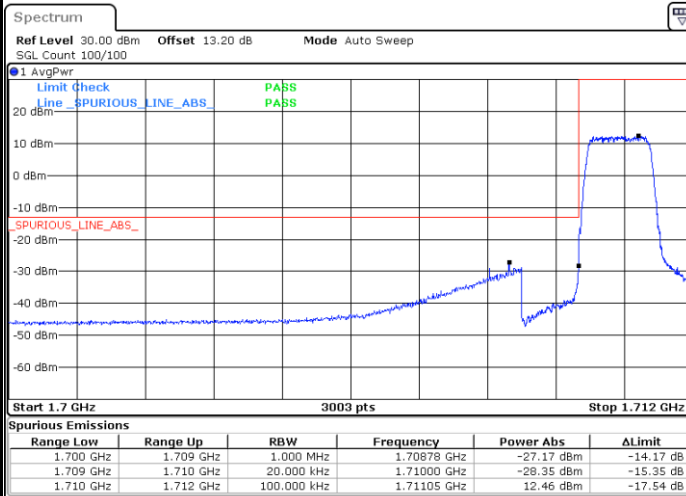
Lowest Band Edge / 1 RB



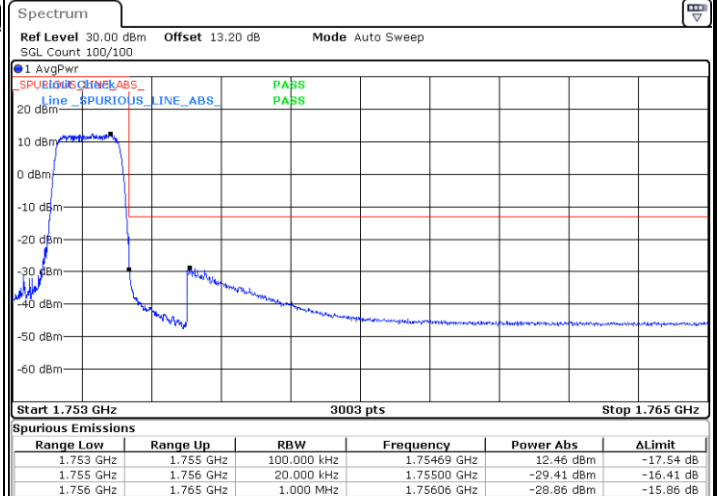
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



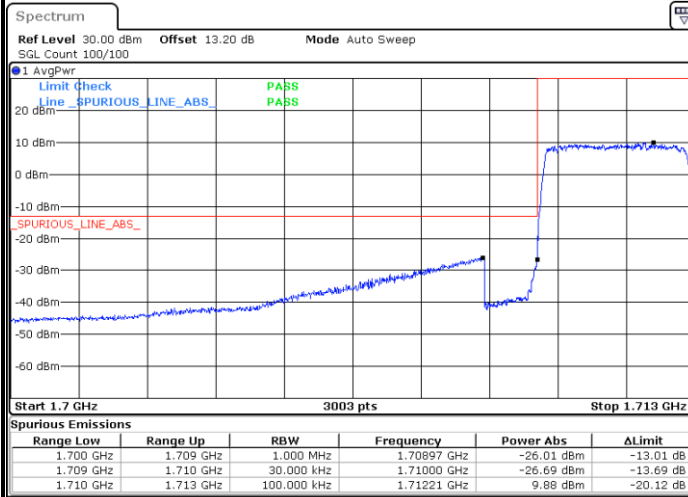
Highest Band Edge / Full RB



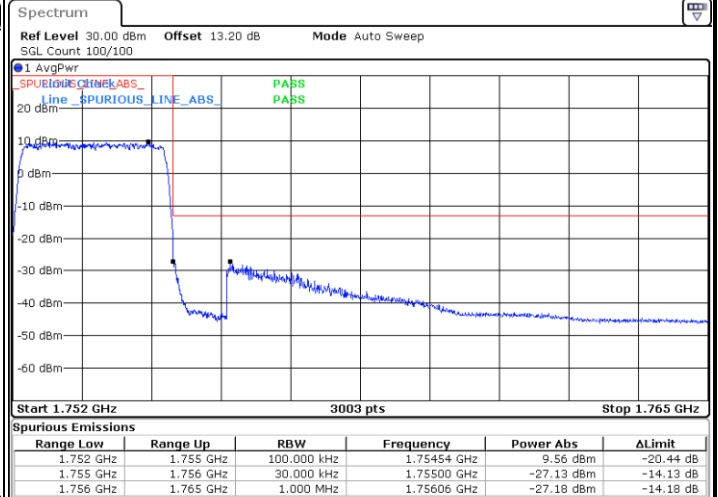


LTE Band 4 / 3MHz / QPSK

Lowest Band Edge / Full RB

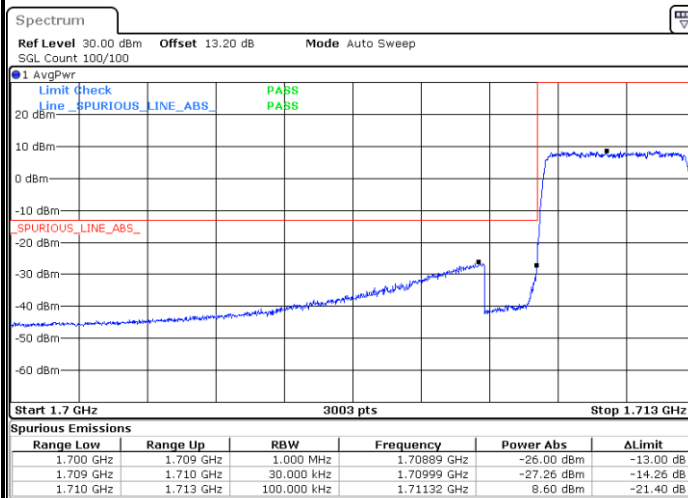


Highest Band Edge / Full RB

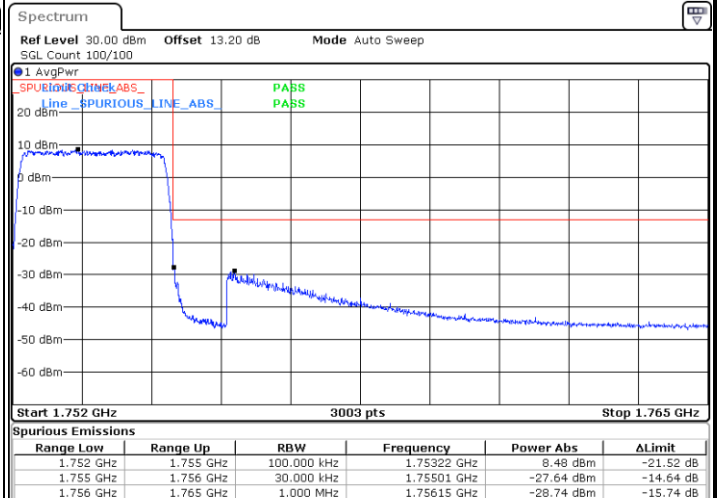


LTE Band 4 / 3MHz / 16QAM

Lowest Band Edge / Full RB



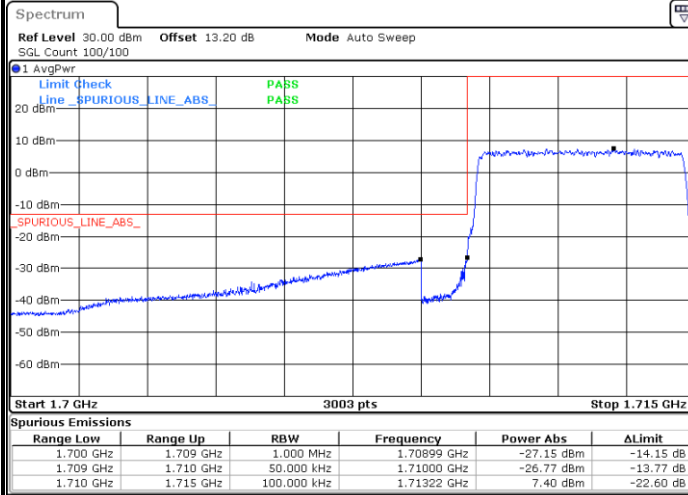
Highest Band Edge / Full RB



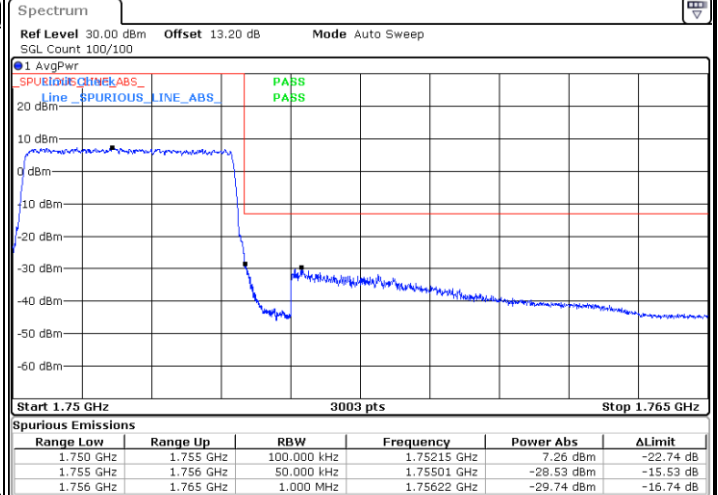


LTE Band 4 / 5MHz / QPSK

Lowest Band Edge / Full RB

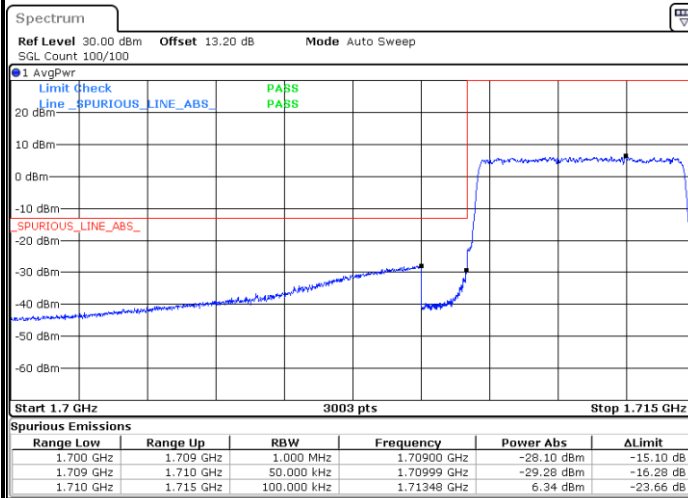


Highest Band Edge / Full RB

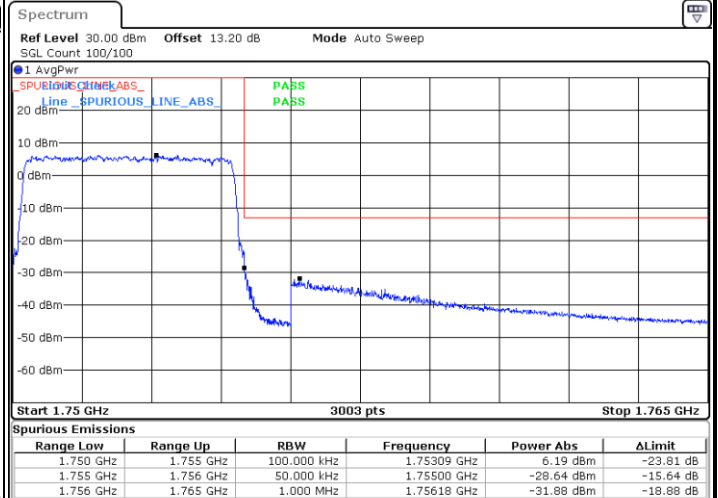


LTE Band 4 / 5MHz / 16QAM

Lowest Band Edge / Full RB



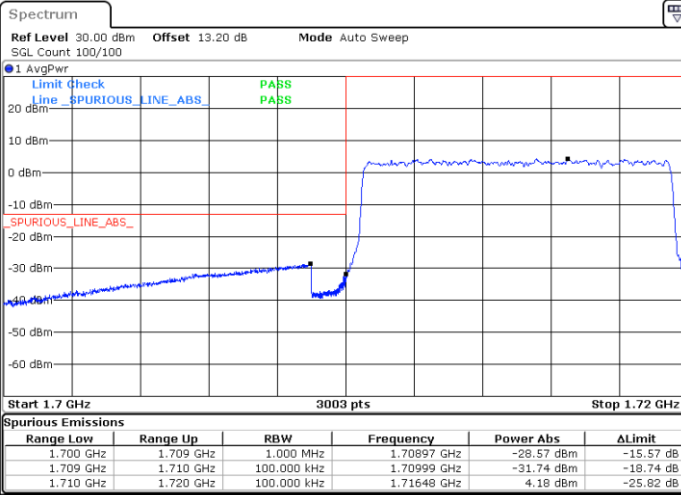
Highest Band Edge / Full RB



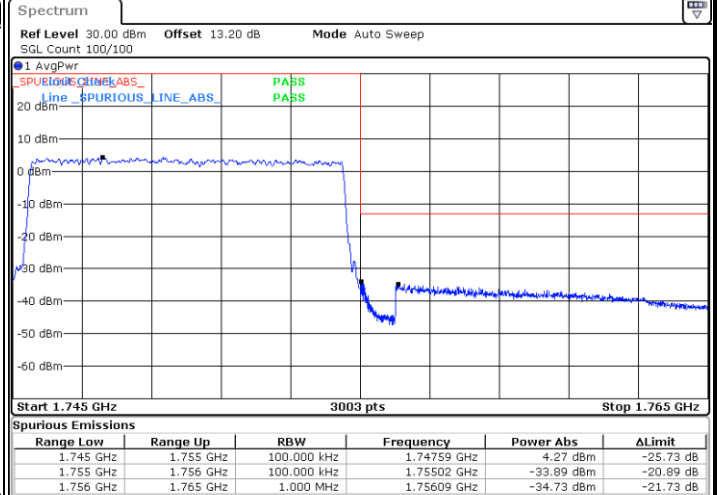


LTE Band 4 / 10MHz / QPSK

Lowest Band Edge / Full RB

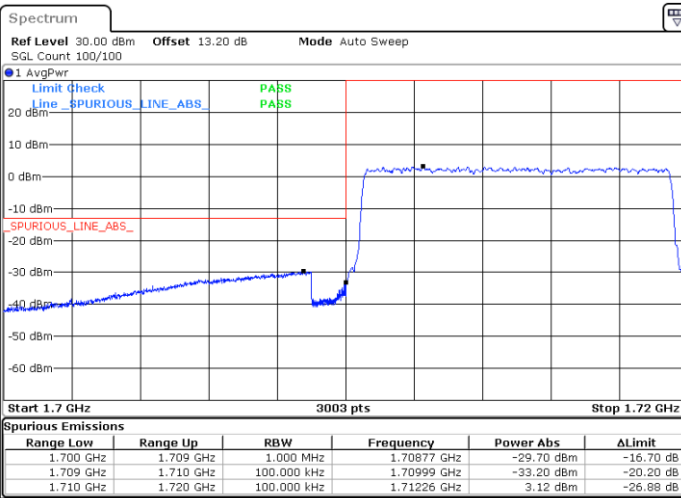


Highest Band Edge / Full RB

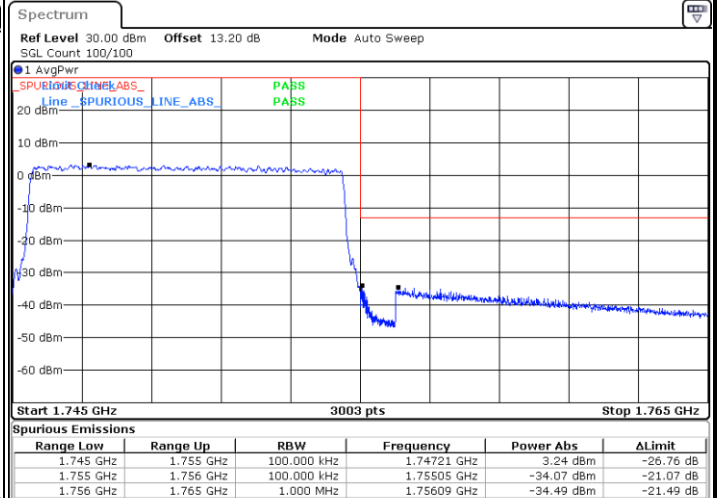


LTE Band 4 / 10MHz / 16QAM

Lowest Band Edge / Full RB



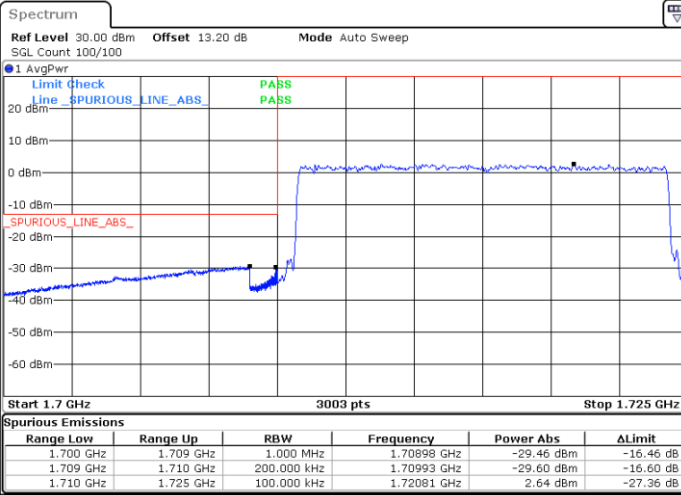
Highest Band Edge / Full RB



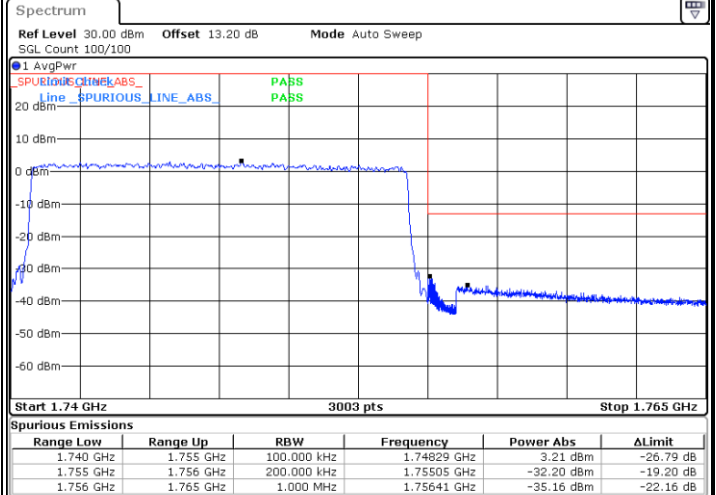


LTE Band 4 / 15MHz / QPSK

Lowest Band Edge / Full RB

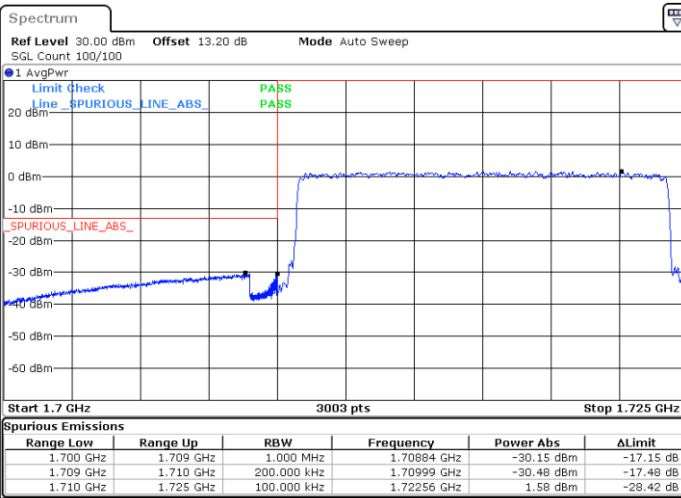


Highest Band Edge / Full RB

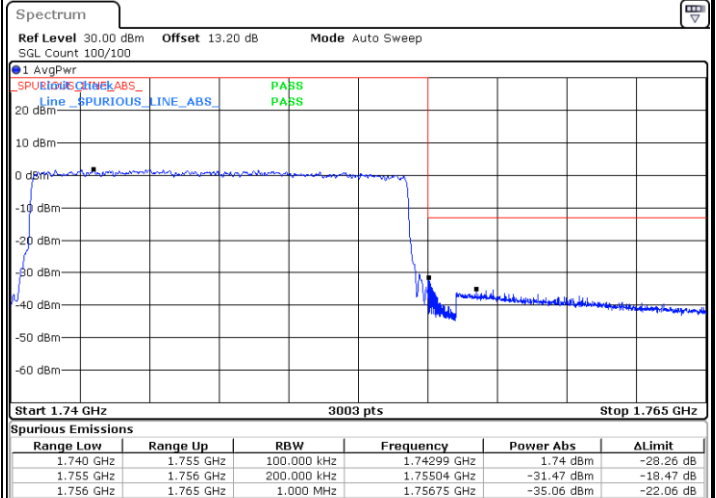


LTE Band 4 / 15MHz / 16QAM

Lowest Band Edge / Full RB



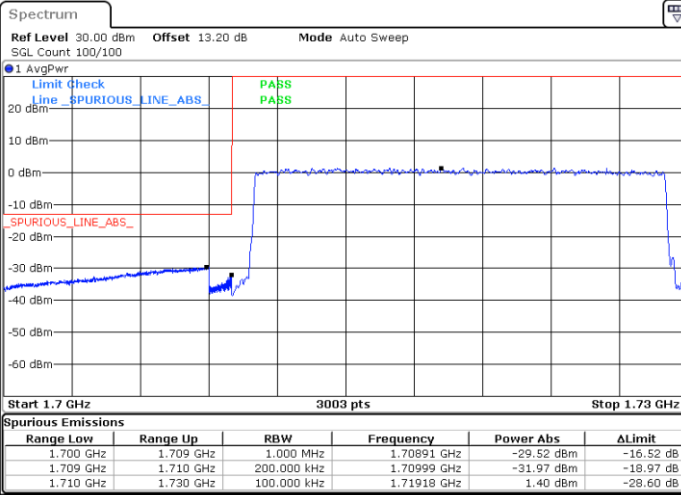
Highest Band Edge / Full RB



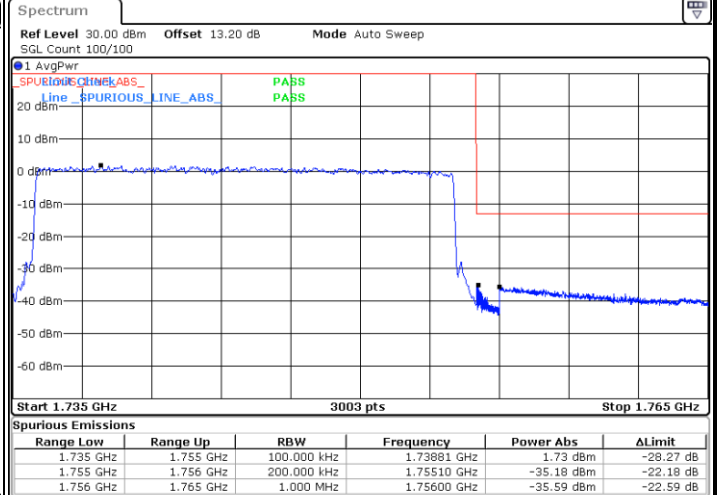


LTE Band 4 / 20MHz / QPSK

Lowest Band Edge / Full RB

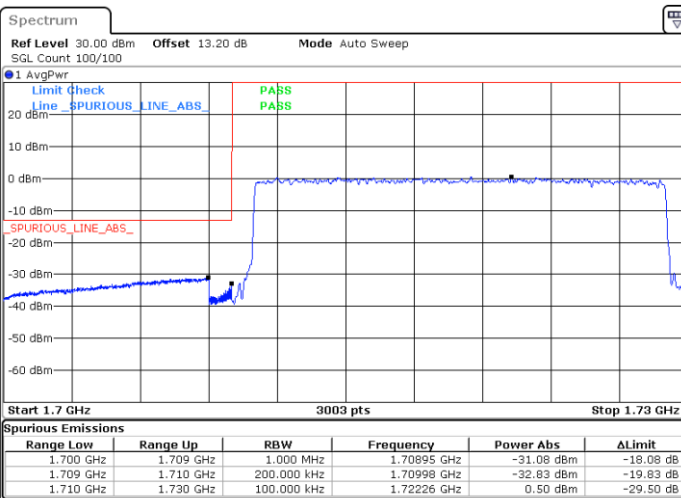


Highest Band Edge / Full RB

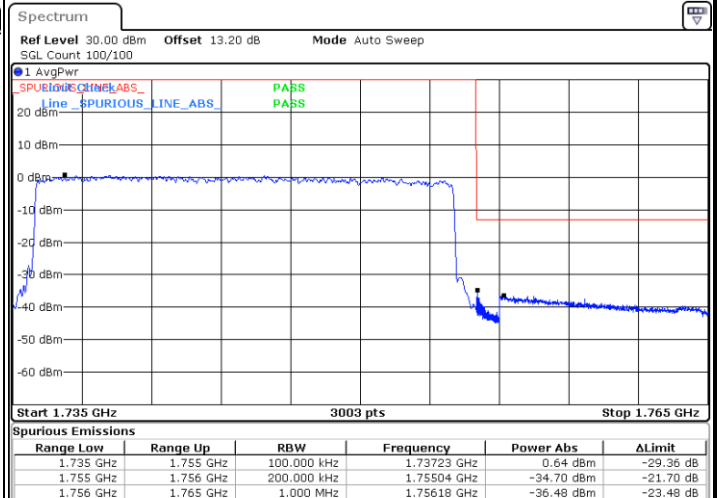


LTE Band 4 / 20MHz / 16QAM

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

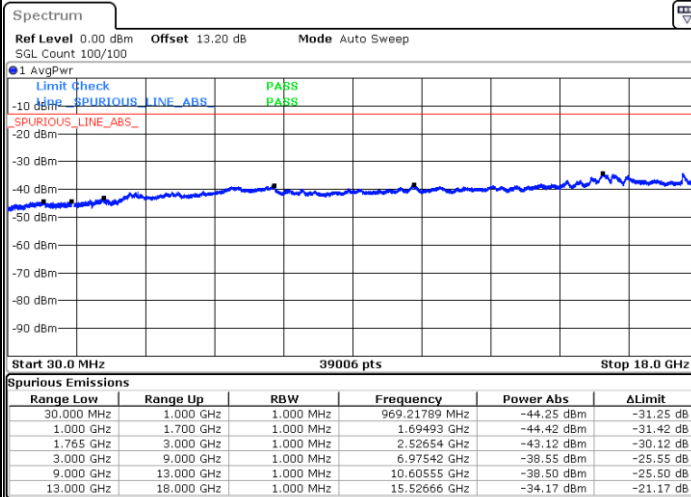




Conducted Spurious Emission

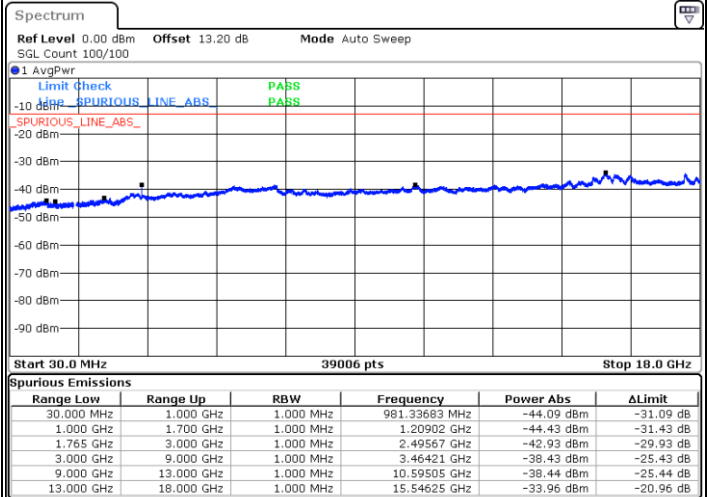
LTE Band 4 / 1.4MHz

Lowest Channel / QPSK



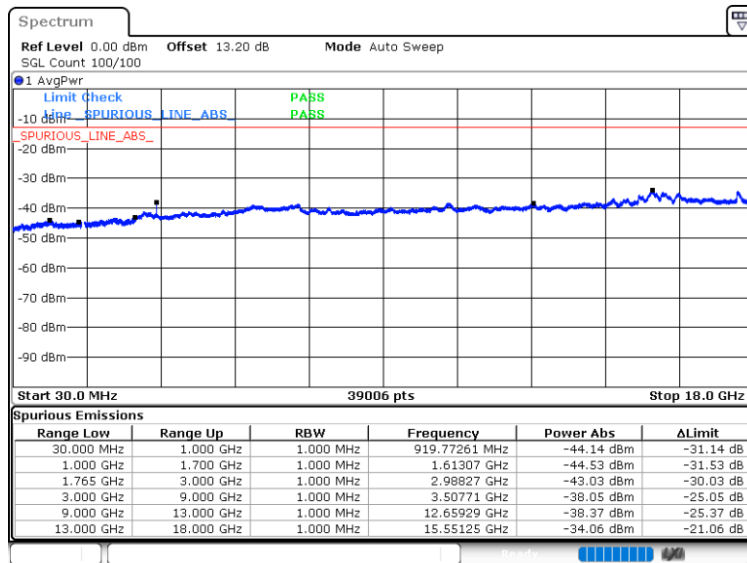
Date: 25.SEP.2024 13:37:37

Middle Channel / QPSK



Date: 25.SEP.2024 13:41:16

Highest Channel / QPSK

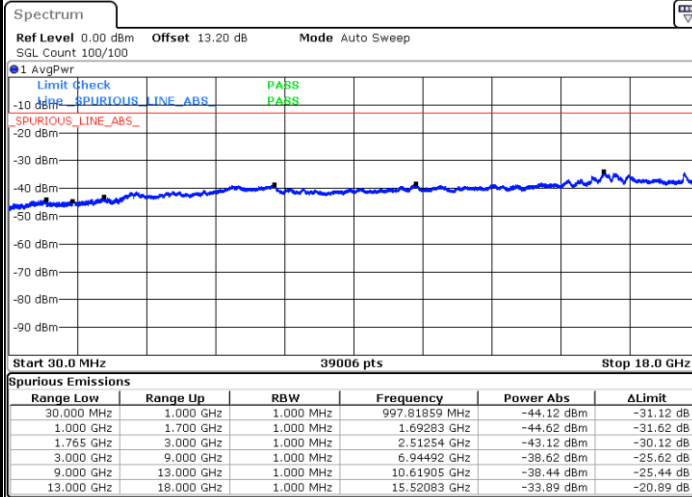


Date: 25.SEP.2024 13:46:50



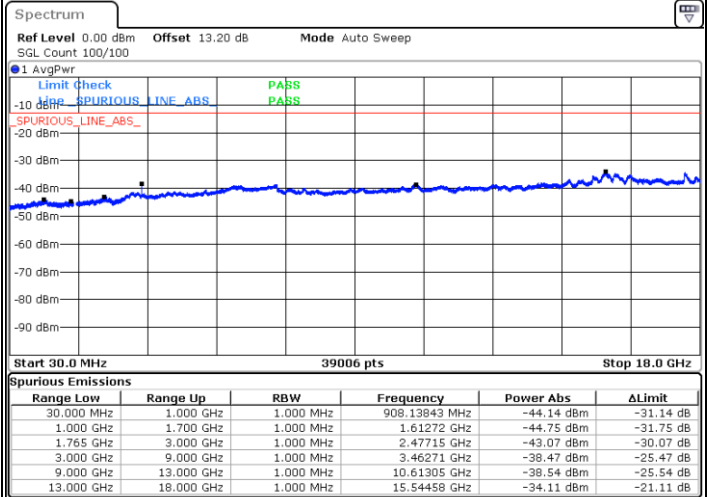
LTE Band 4 / 3MHz

Lowest Channel / QPSK



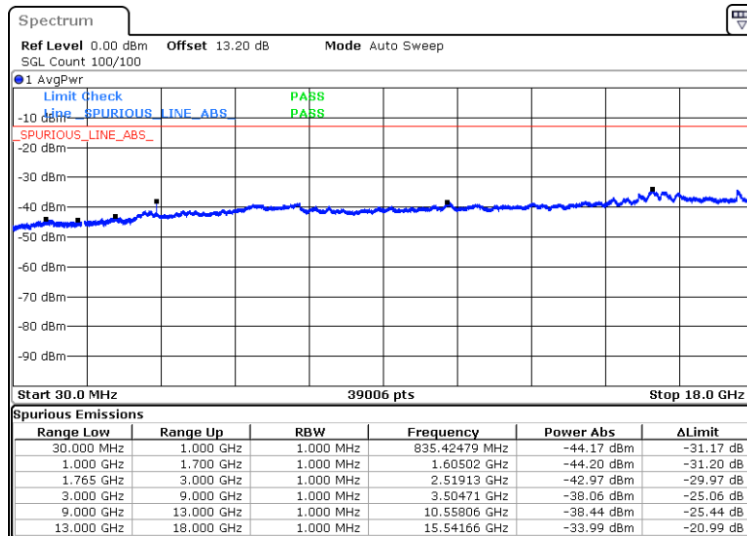
Date: 25.SEP.2024 13:51:26

Middle Channel / QPSK



Date: 25.SEP.2024 13:52:51

Highest Channel / QPSK

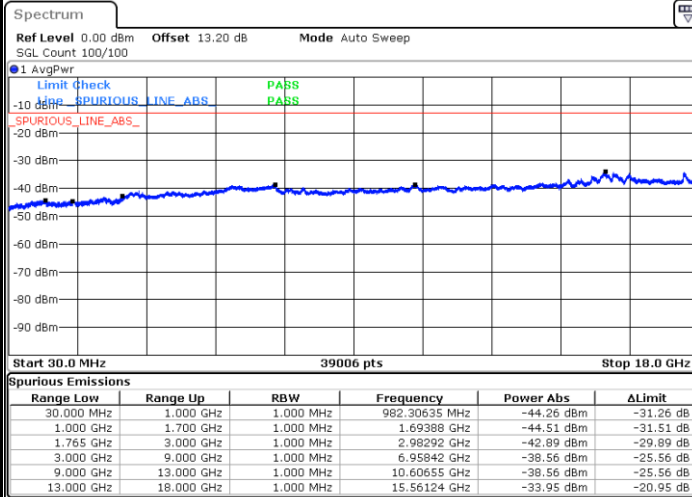


Date: 25.SEP.2024 13:54:15



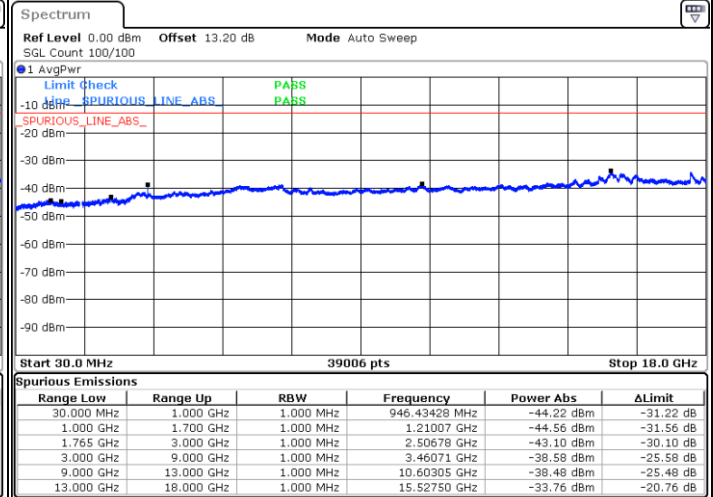
LTE Band 4 / 5MHz

Lowest Channel / QPSK



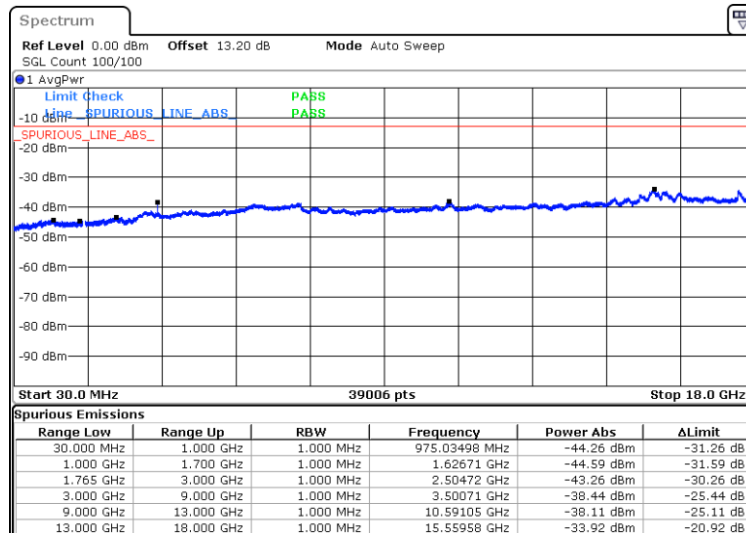
Date: 25.SEP.2024 13:58:52

Middle Channel / QPSK



Date: 25.SEP.2024 14:00:20

Highest Channel / QPSK

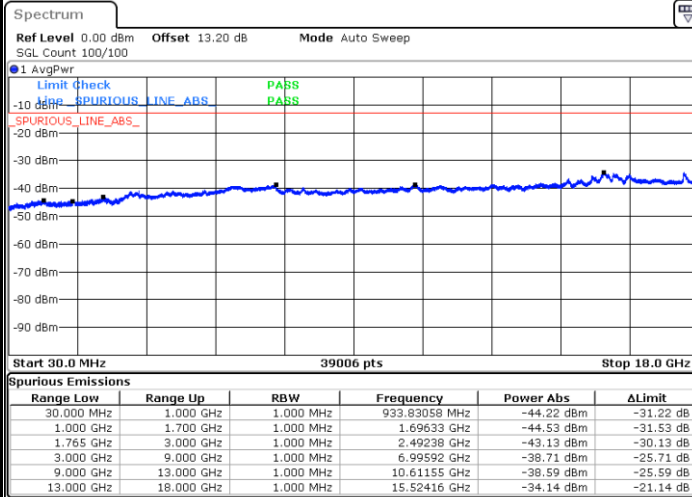


Date: 25.SEP.2024 14:01:47



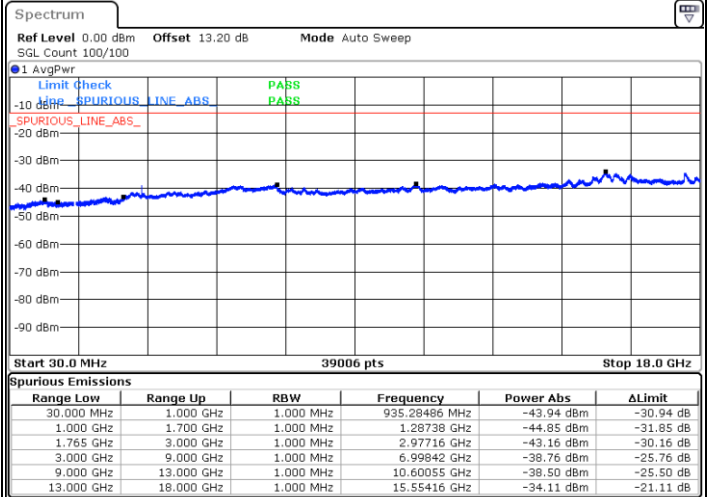
LTE Band 4 / 10MHz

Lowest Channel / QPSK



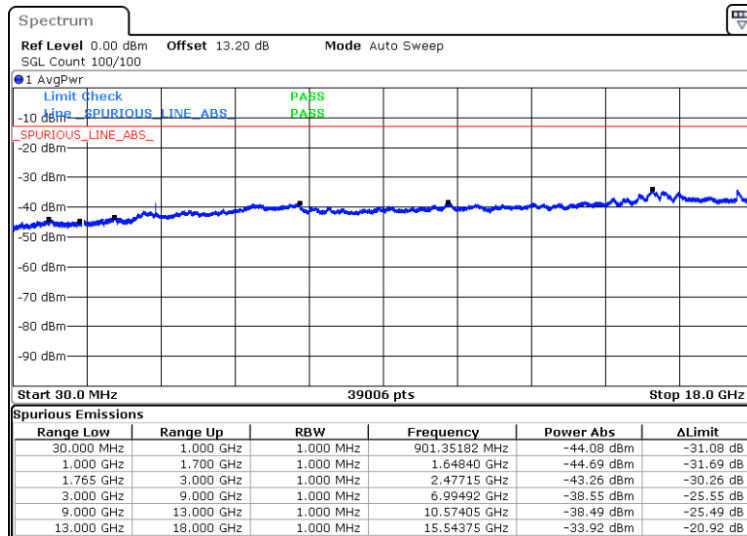
Date: 25.SEP.2024 14:15:51

Middle Channel / QPSK



Date: 25.SEP.2024 14:17:18

Highest Channel / QPSK

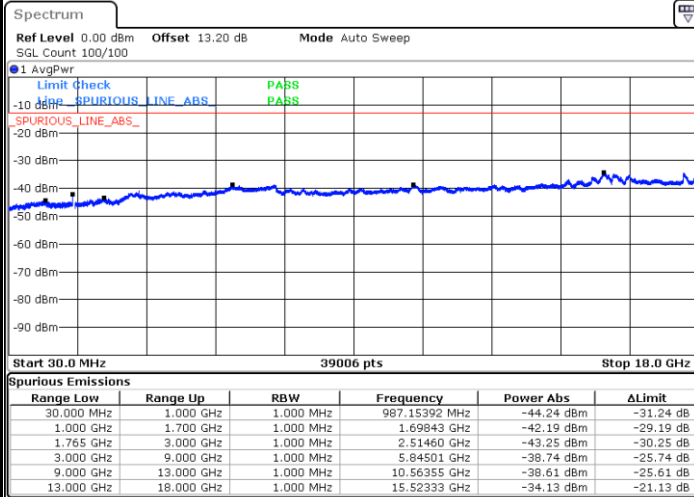


Date: 25.SEP.2024 14:18:44



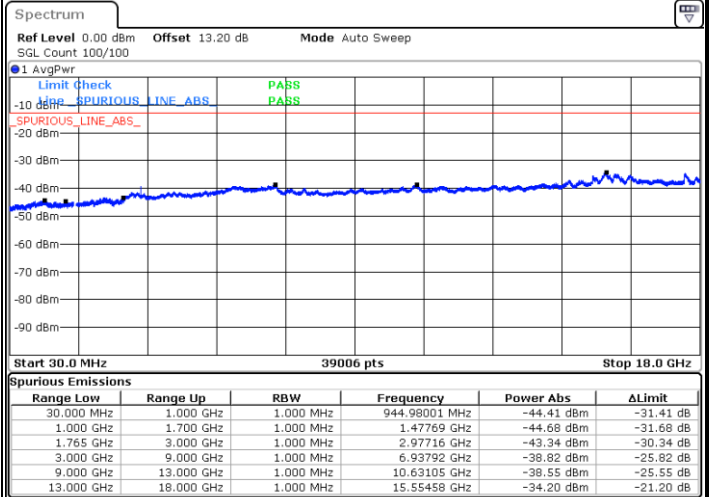
LTE Band 4 / 15MHz

Lowest Channel / QPSK



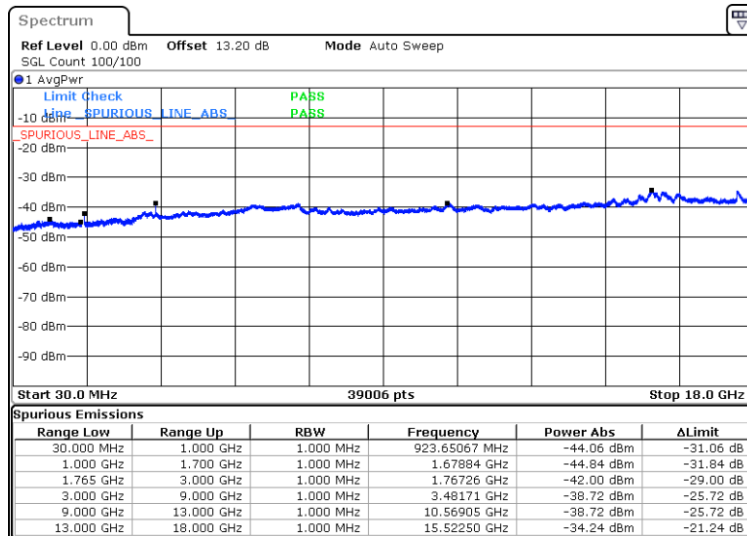
Date: 10.DEC.2024 10:02:20

Middle Channel / QPSK



Date: 10.DEC.2024 10:03:50

Highest Channel / QPSK

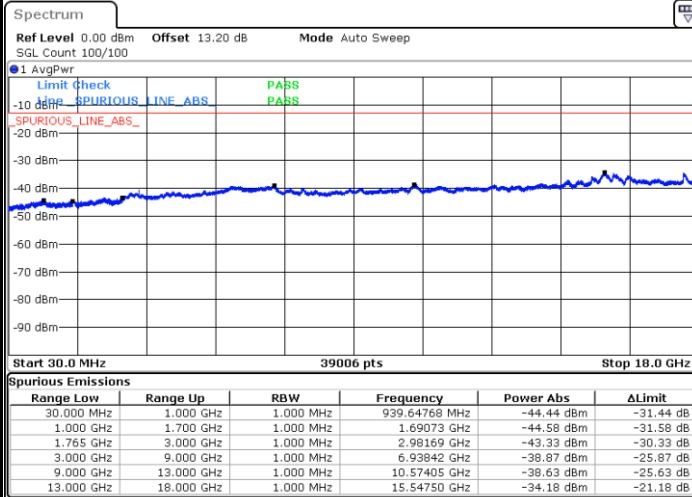


Date: 10.DEC.2024 10:05:25



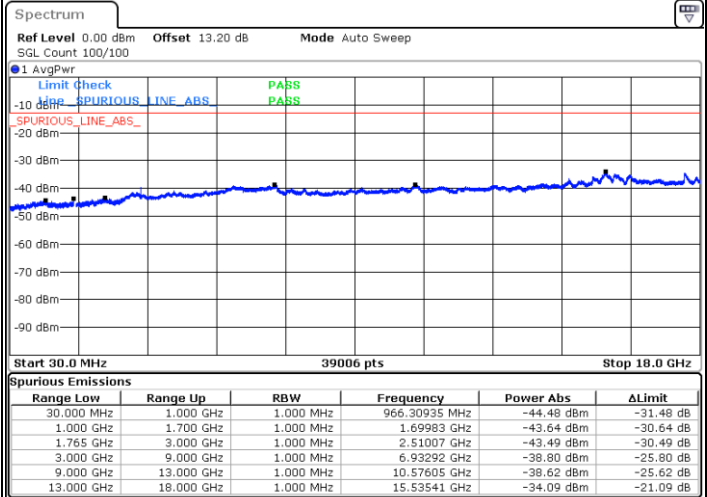
LTE Band 4 / 20MHz

Lowest Channel / QPSK



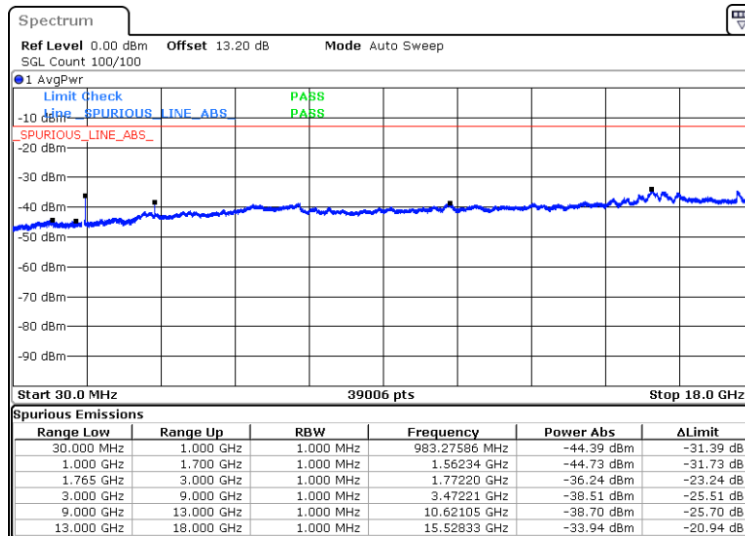
Date: 10.DEC.2024 10:06:58

Middle Channel / QPSK



Date: 10.DEC.2024 10:08:27

Highest Channel / QPSK



Date: 10.DEC.2024 10:09:59

Frequency Stability

Test Conditions		LTE Band 4 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0021	PASS
40	Normal Voltage	0.0047	
30	Normal Voltage	0.0023	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0021	
0	Normal Voltage	0.0077	
-10	Normal Voltage	0.0012	
-20	Normal Voltage	0.0026	
-30	Normal Voltage	0.0050	
20	Maximum Voltage	0.0063	
20	Normal Voltage	0.0000	
20	Minimum Voltage	0.0014	

Note:

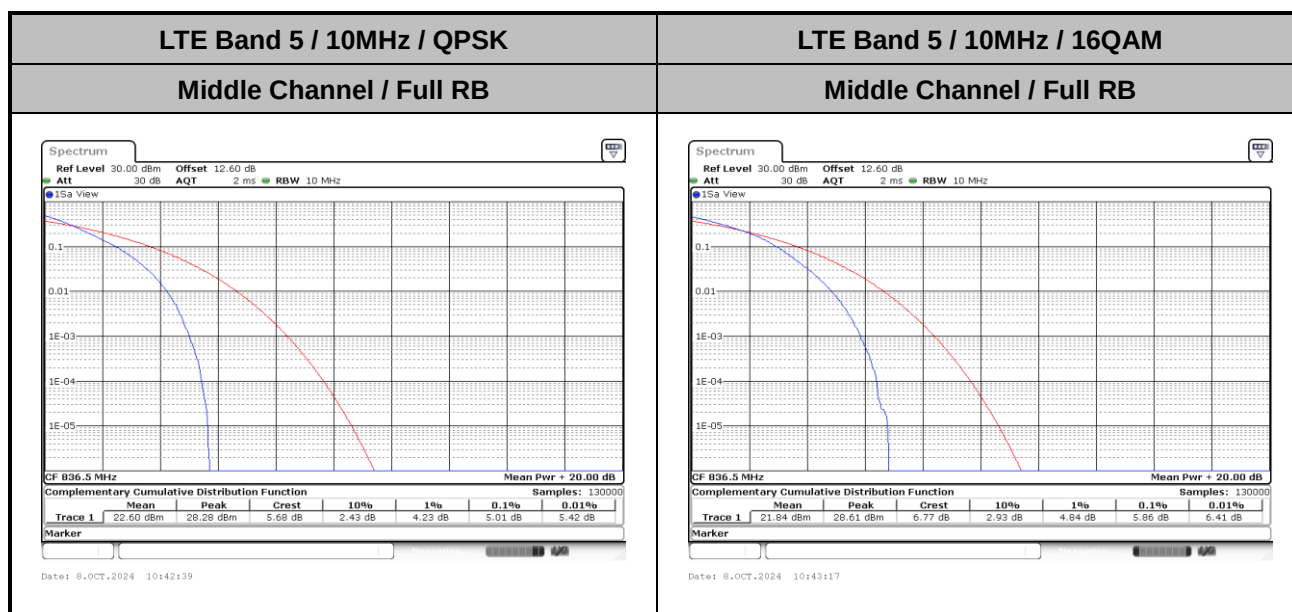
1. Normal Voltage = 12 V. ; Minimum Voltage = 10.2 V. ; Maximum Voltage = 13.8 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 5

Peak-to-Average Ratio

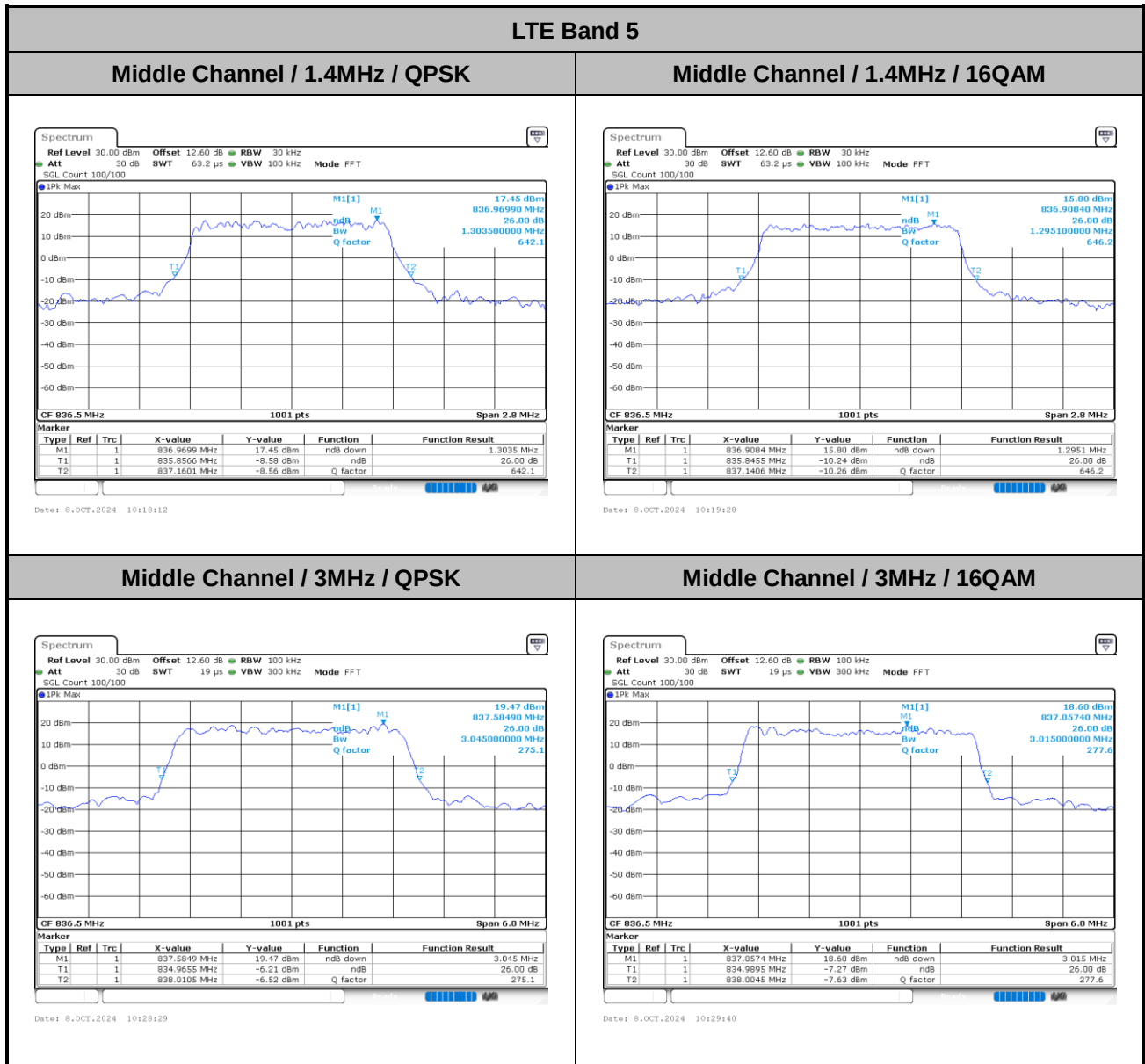
Mode	LTE Band 5 / 10MHz		
Mod.	QPSK	16QAM	Limit: 13dB
RB Size	Full RB	Full RB	Result
Middle CH	5.01	5.86	PASS





26dB Bandwidth

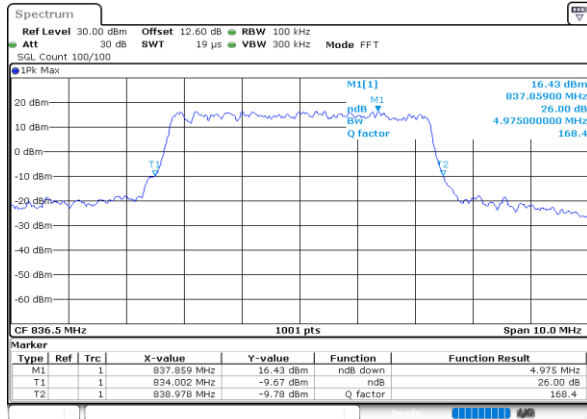
Mode	LTE Band 5 : 26dB BW(MHz)							
BW	1.4MHz		3MHz		5MHz		10MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	1.30	1.29	3.04	3.01	4.97	5.08	9.86	9.86



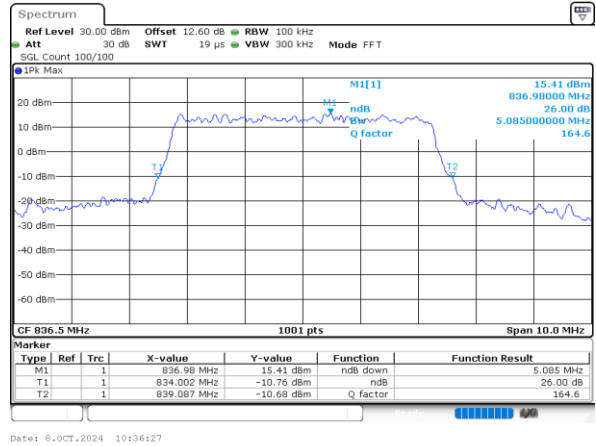


LTE Band 5

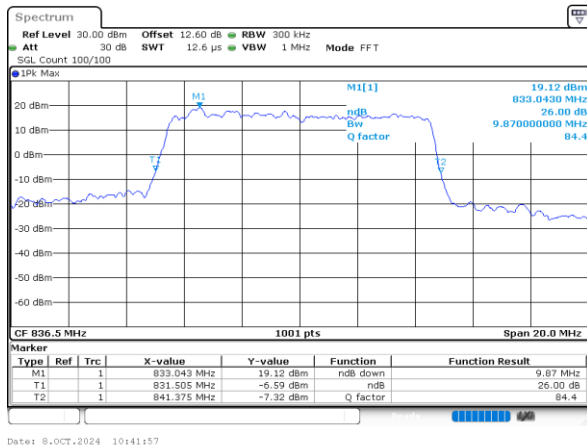
Middle Channel / 5MHz / QPSK



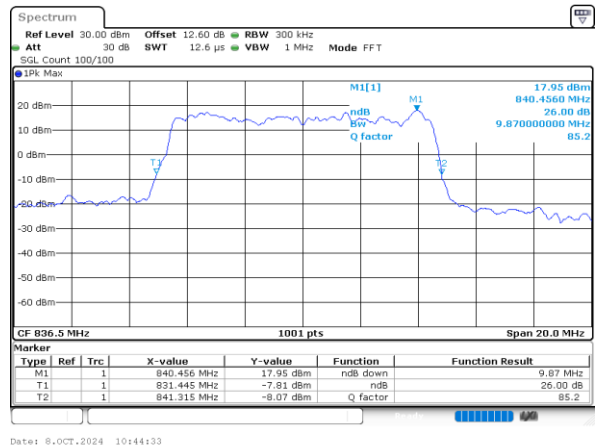
Middle Channel / 5MHz / 16QAM



Middle Channel / 10MHz / QPSK



Middle Channel / 10MHz / 16QAM



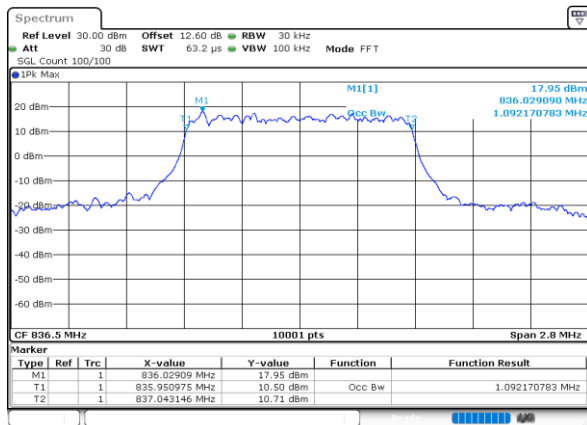


Occupied Bandwidth

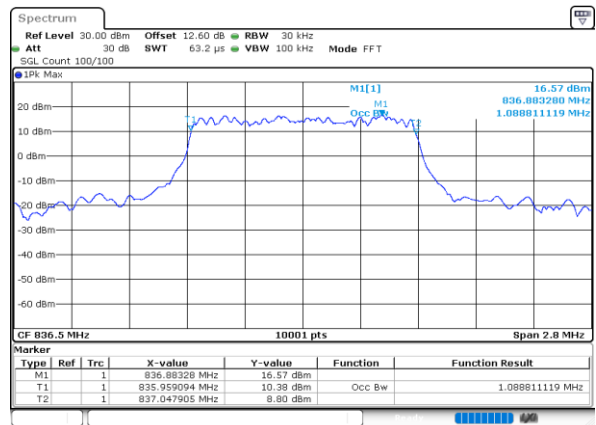
Mode	LTE Band 5 : 99%OBW(MHz)							
BW	1.4MHz		3MHz		5MHz		10MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	1.09	1.08	2.71	2.72	4.49	4.50	9.10	9.00

LTE Band 5

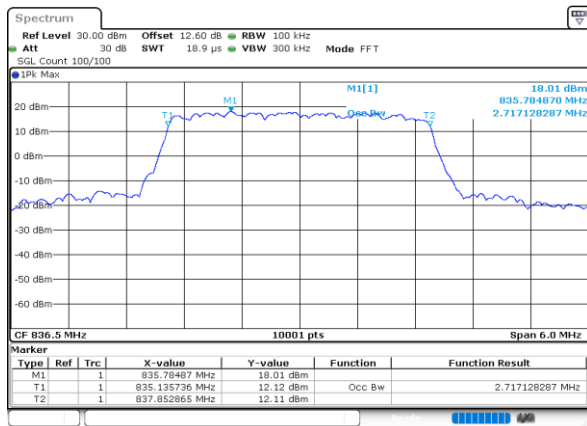
Middle Channel / 1.4MHz / QPSK



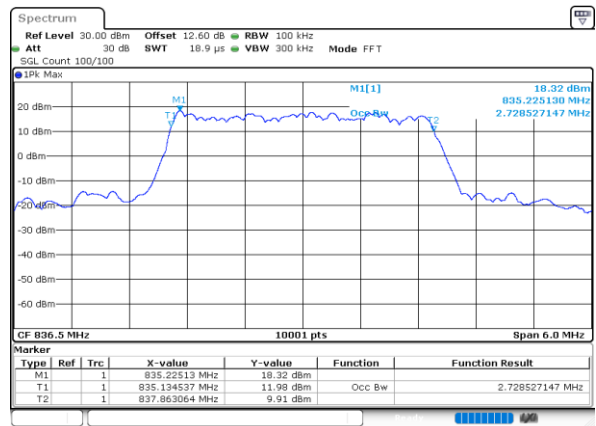
Middle Channel / 1.4MHz / 16QAM



Middle Channel / 3MHz / QPSK



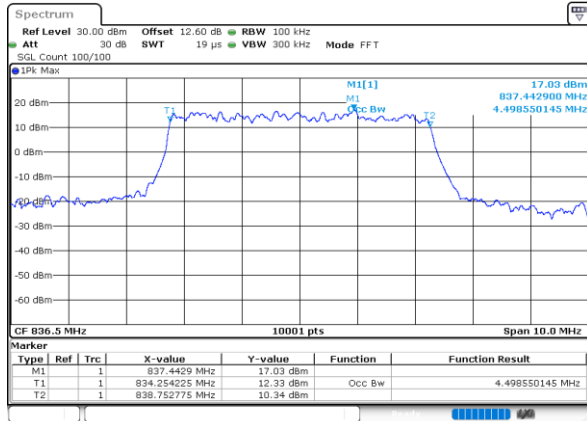
Middle Channel / 3MHz / 16QAM



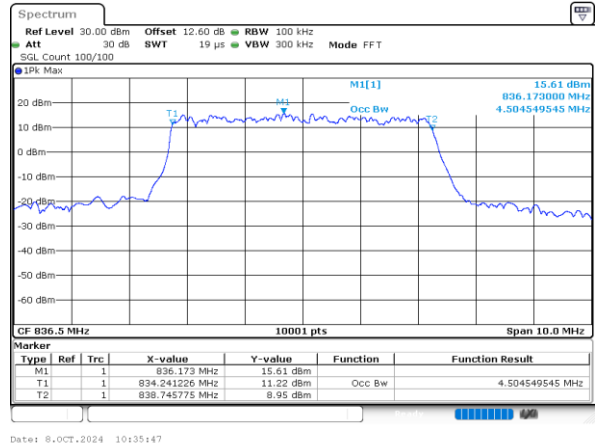


LTE Band 5

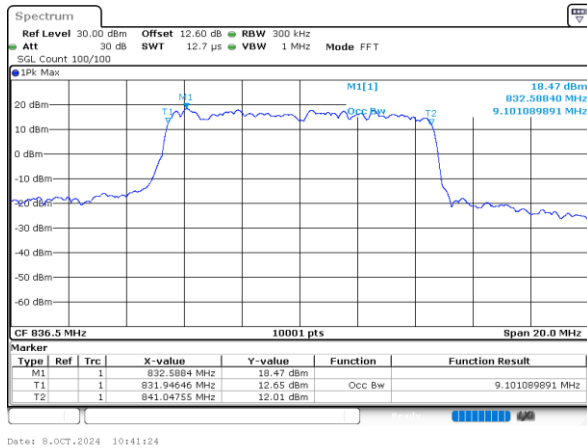
Middle Channel / 5MHz / QPSK



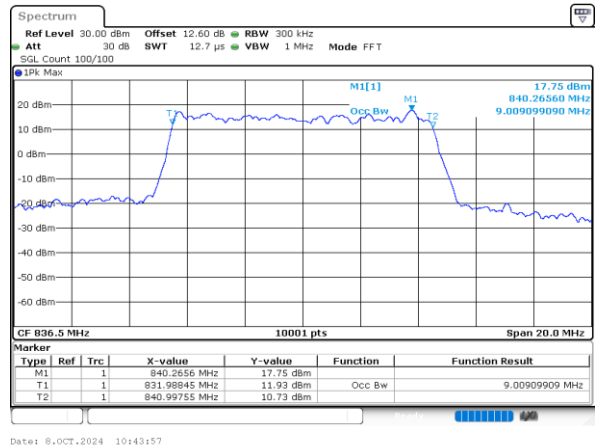
Middle Channel / 5MHz / 16QAM



Middle Channel / 10MHz / QPSK



Middle Channel / 10MHz / 16QAM

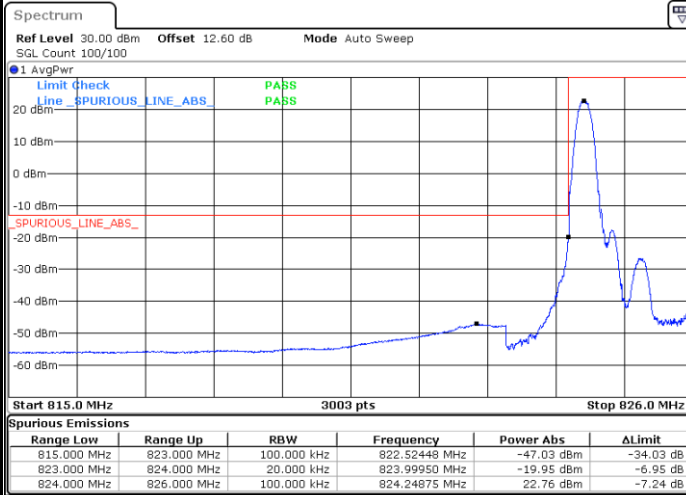




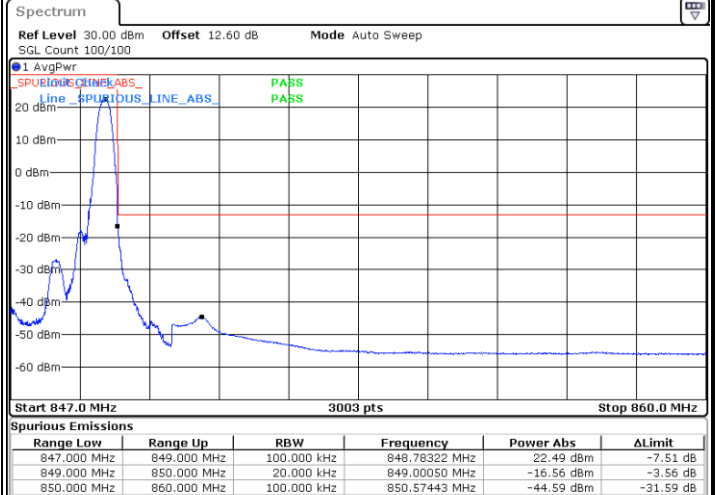
Conducted Band Edge

LTE Band 5 / 1.4MHz / QPSK

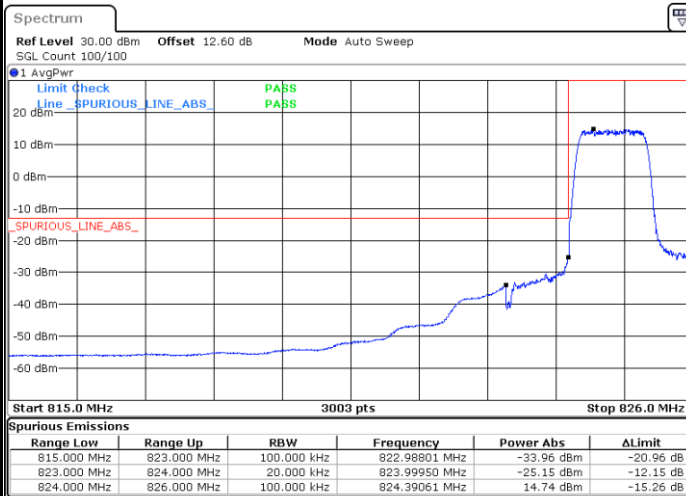
Lowest Band Edge / 1RB



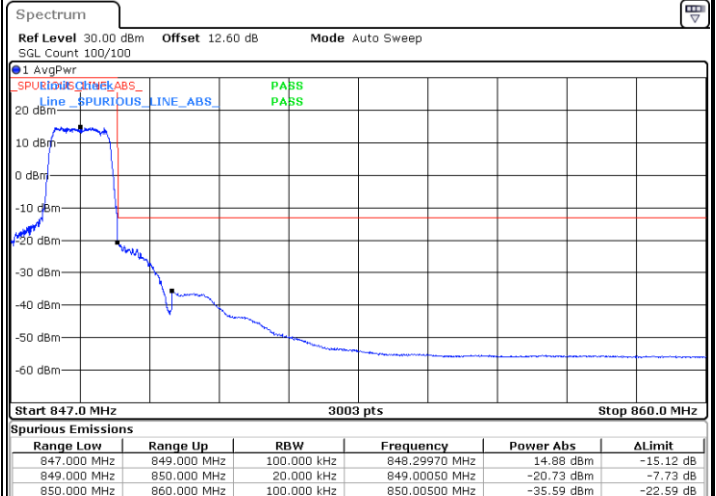
Highest Band Edge / 1RB



Lowest Band Edge / Full RB



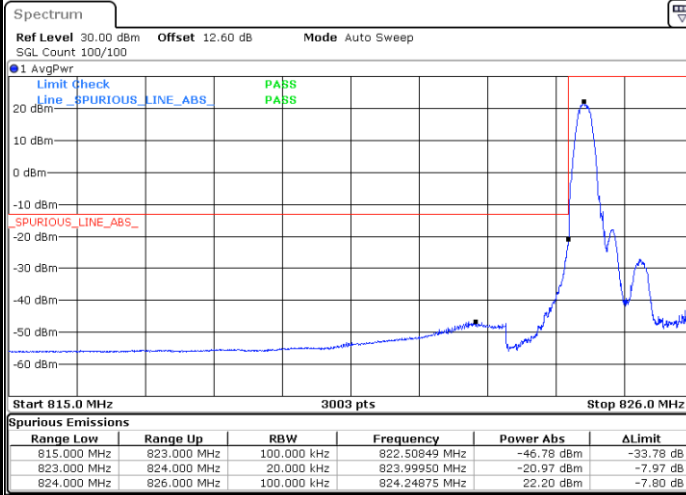
Highest Band Edge / Full RB



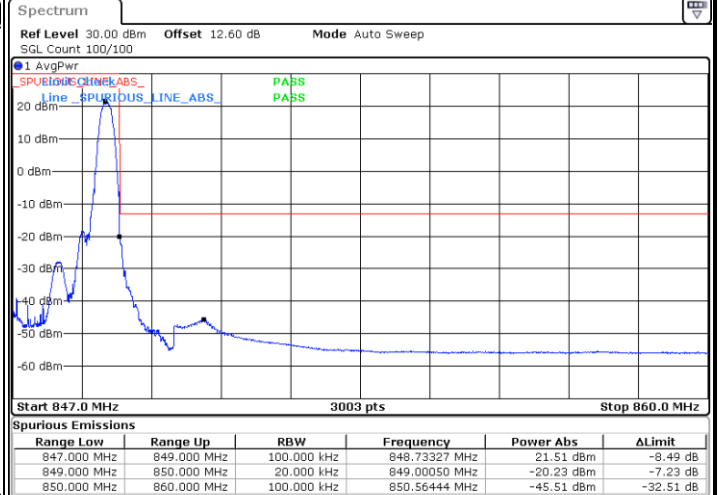


LTE Band 5 / 1.4MHz / 16QAM

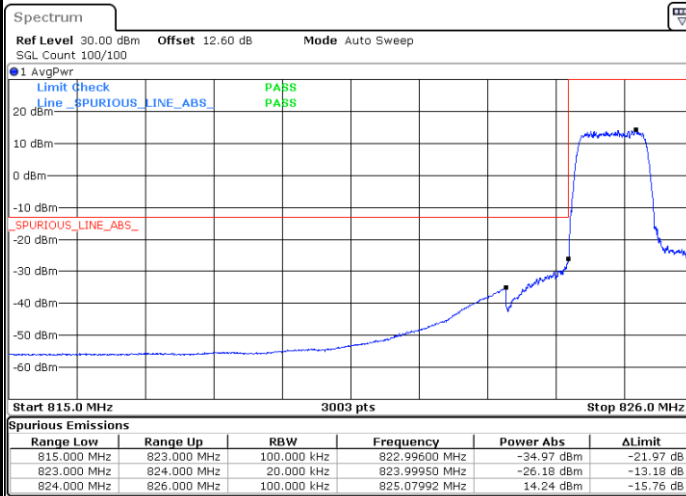
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

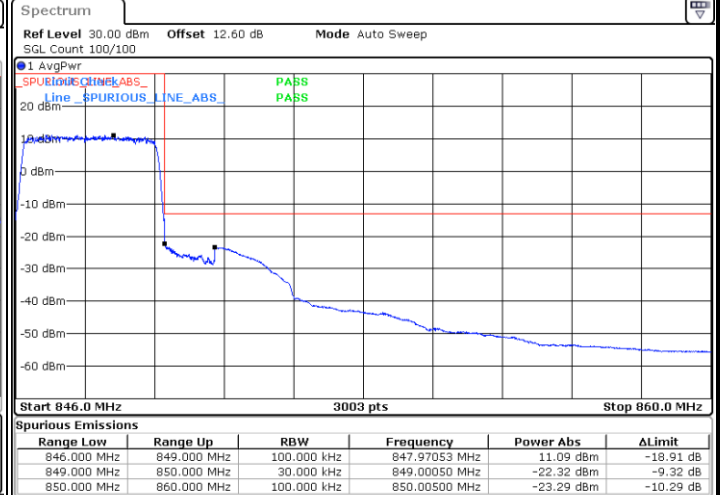
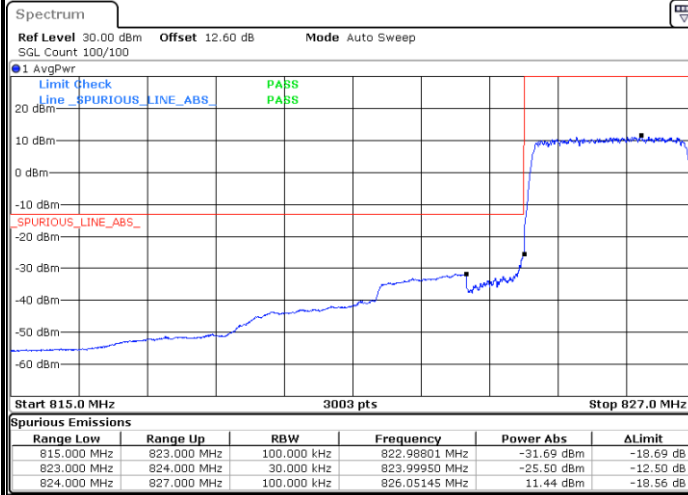




LTE Band 5 / 3MHz / QPSK

Lowest Band Edge / Full RB

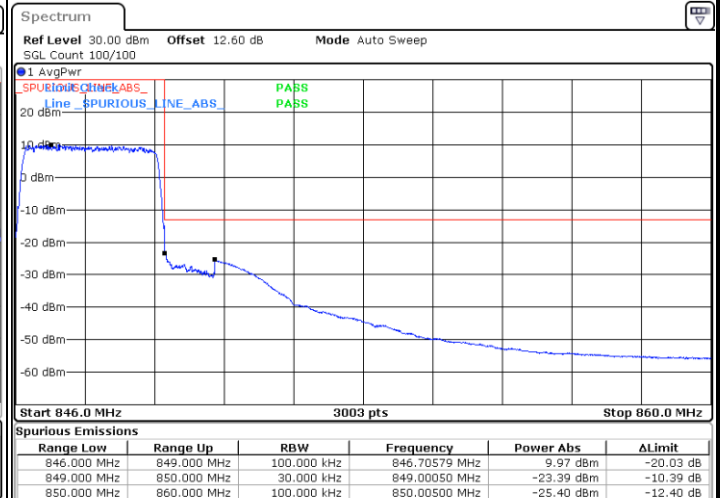
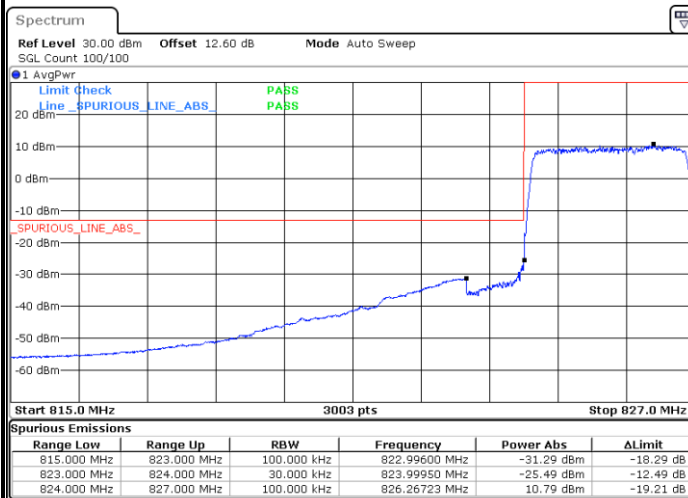
Highest Band Edge / Full RB



LTE Band 5 / 3MHz / 16QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

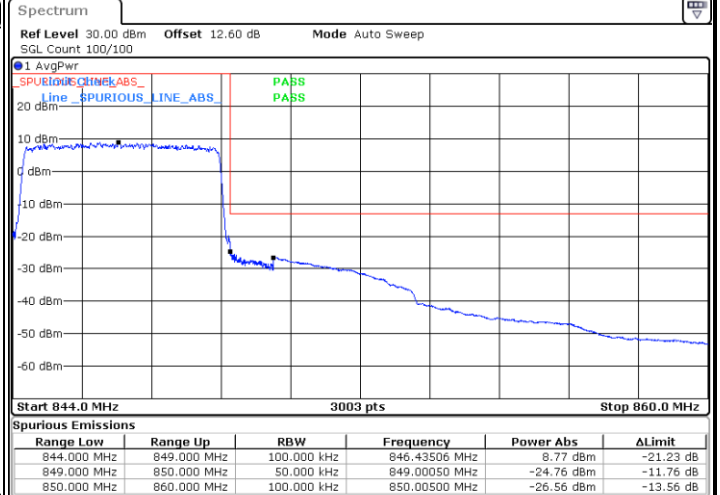
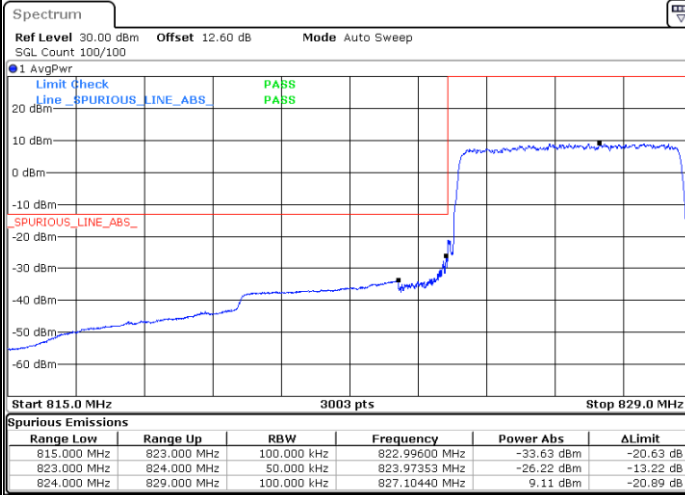




LTE Band 5 / 5MHz / QPSK

Lowest Band Edge / Full RB

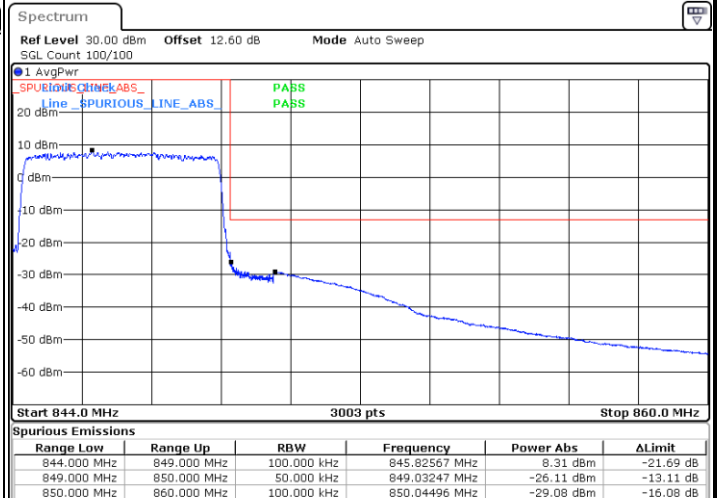
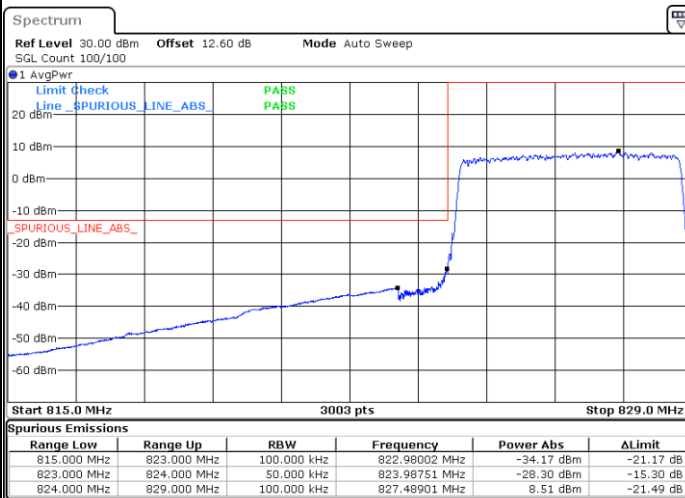
Highest Band Edge / Full RB



LTE Band 5 / 5MHz / 16QAM

Lowest Band Edge / Full RB

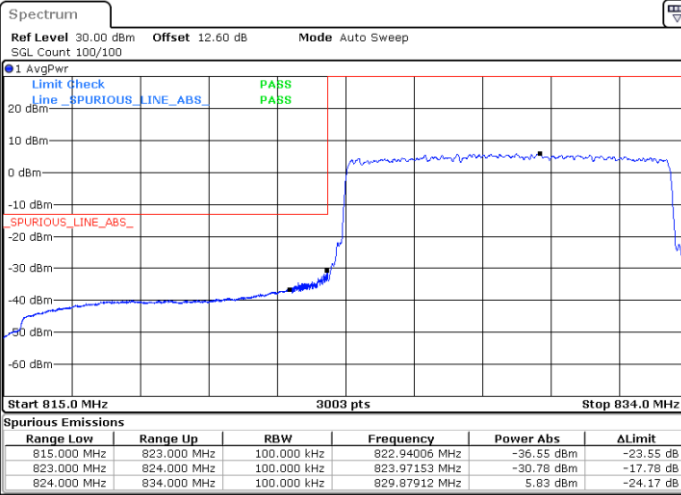
Highest Band Edge / Full RB



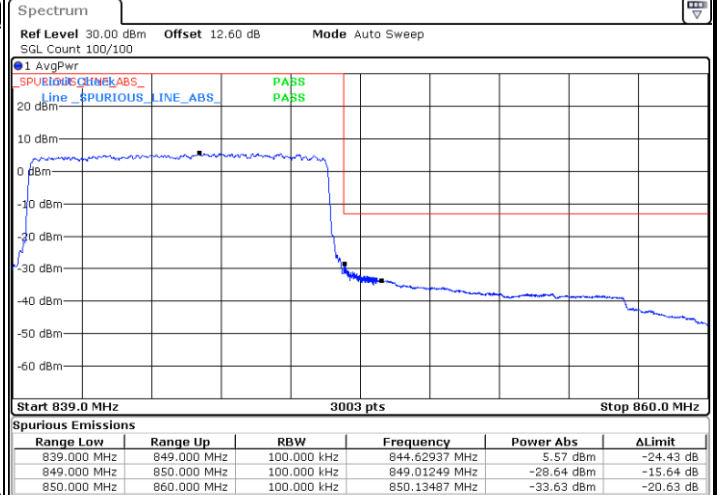


LTE Band 5 / 10MHz / QPSK

Lowest Band Edge / Full RB

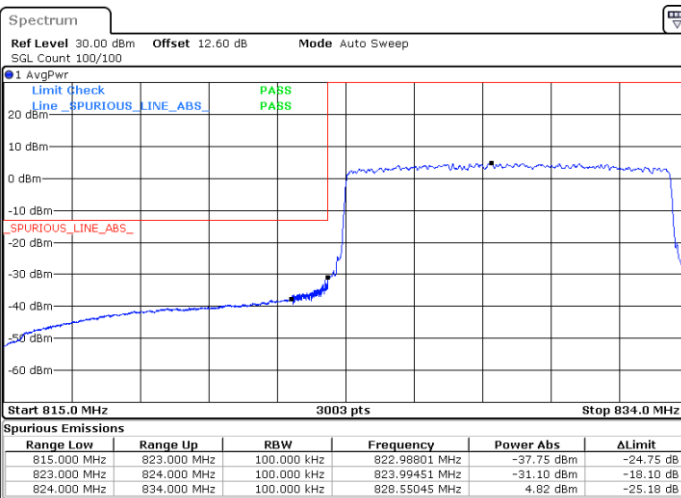


Highest Band Edge / Full RB

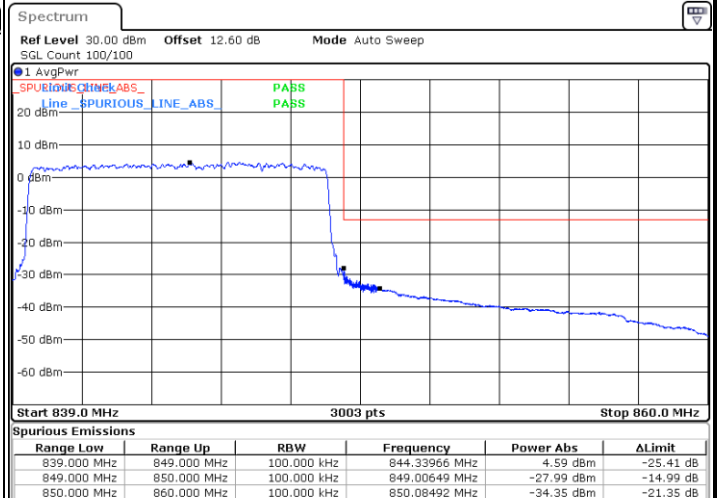


LTE Band 5 / 10MHz / 16QAM

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

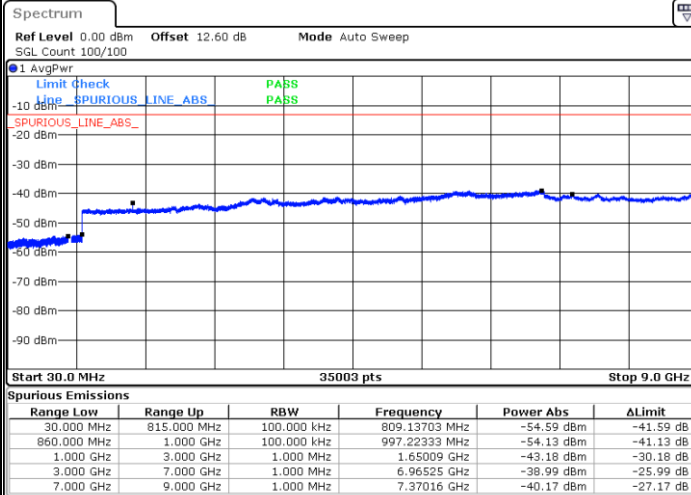




Conducted Spurious Emission

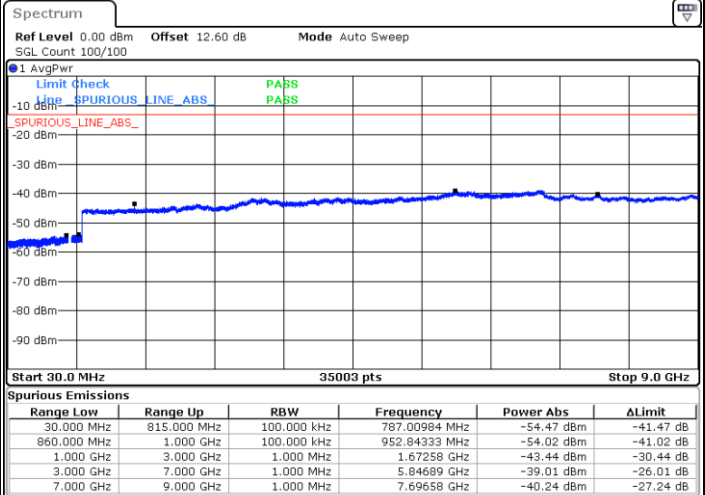
LTE Band 5 / 1.4MHz

Lowest Channel / QPSK



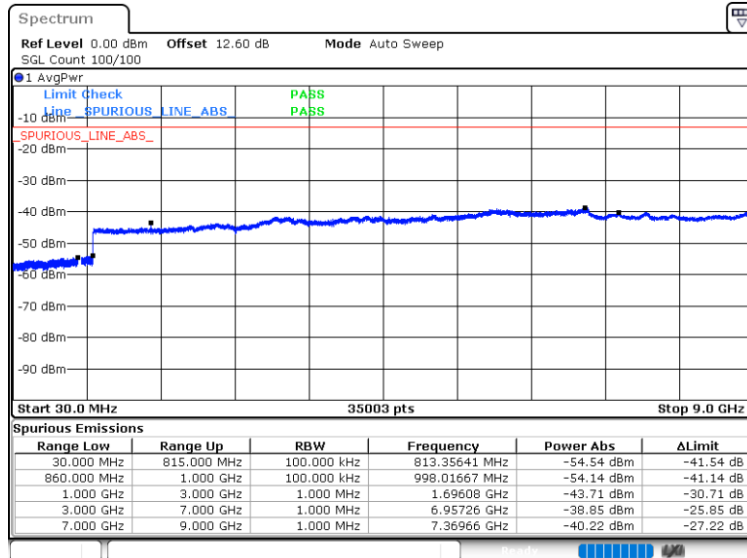
Date: 8.OCT.2024 10:13:15

Middle Channel / QPSK



Date: 8.OCT.2024 10:16:56

Highest Channel / QPSK

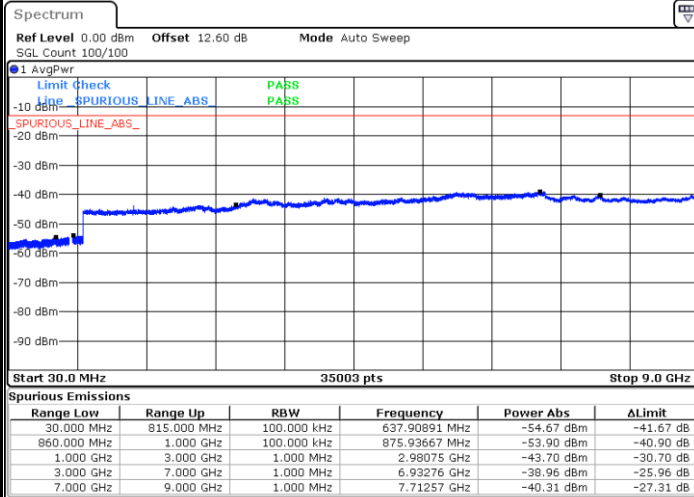


Date: 8.OCT.2024 10:25:05



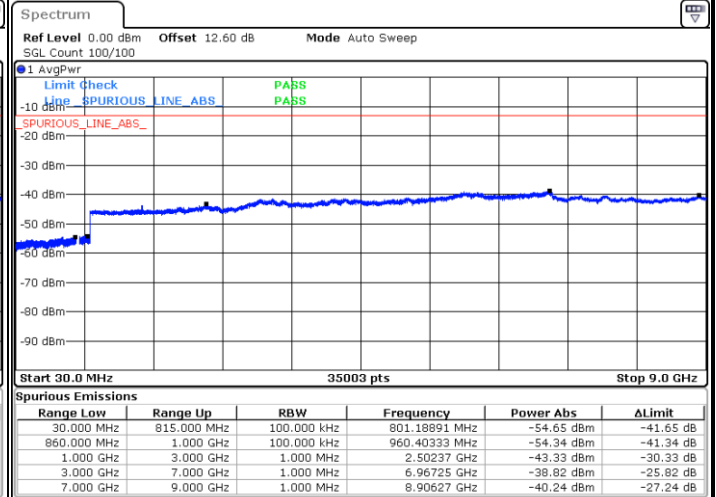
LTE Band 5 / 3MHz

Lowest Channel / QPSK



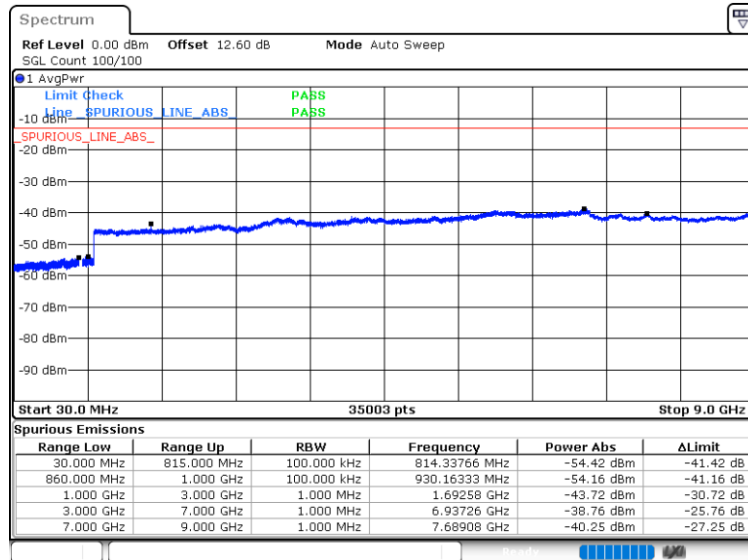
Date: 8.OCT.2024 10:48:02

Middle Channel / QPSK



Date: 8.OCT.2024 10:49:29

Highest Channel / QPSK

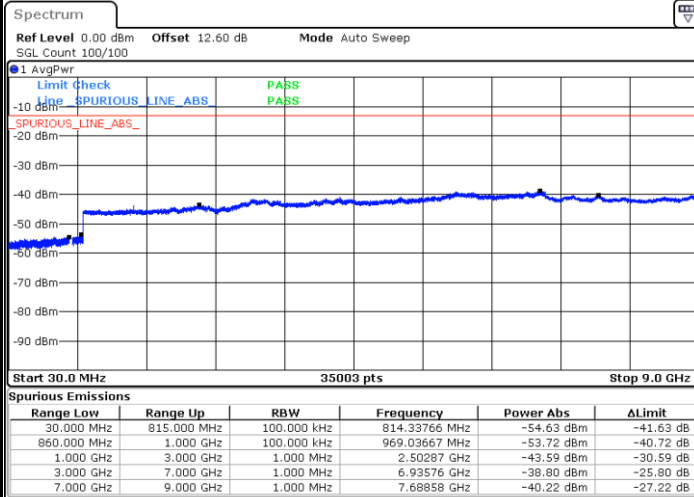


Date: 8.OCT.2024 10:50:57



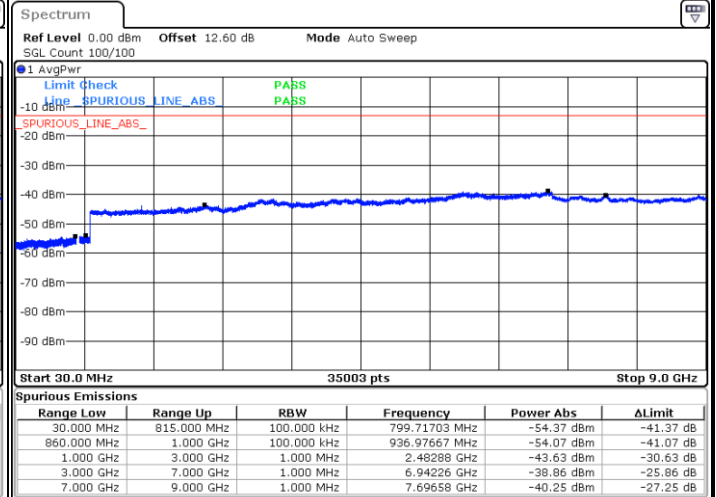
LTE Band 5 / 5MHz

Lowest Channel / QPSK



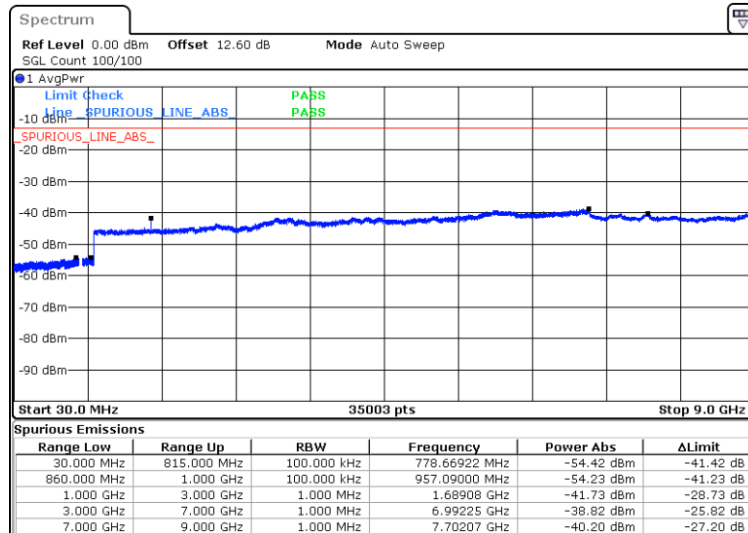
Date: 8.OCT.2024 10:52:23

Middle Channel / QPSK



Date: 8.OCT.2024 10:53:49

Highest Channel / QPSK

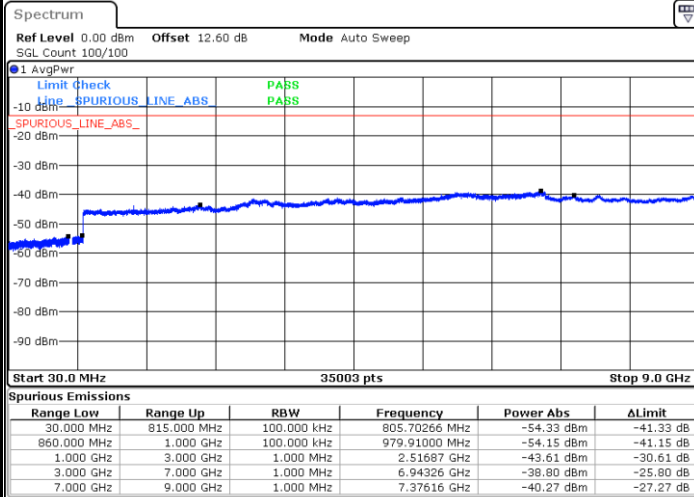


Date: 8.OCT.2024 10:55:17



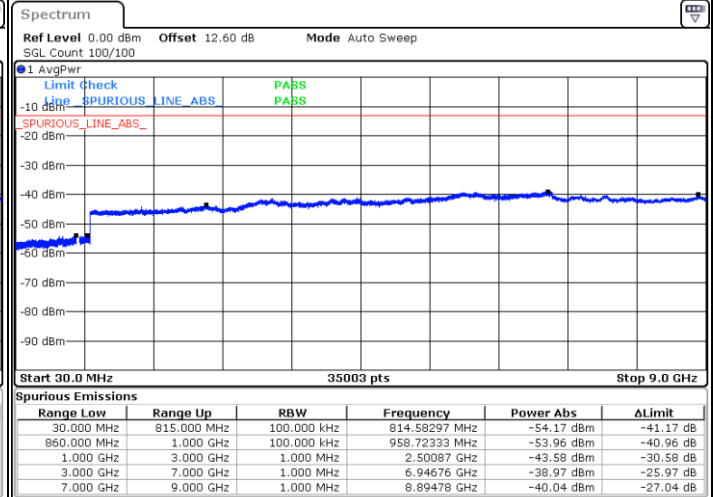
LTE Band 5 / 10MHz

Lowest Channel / QPSK



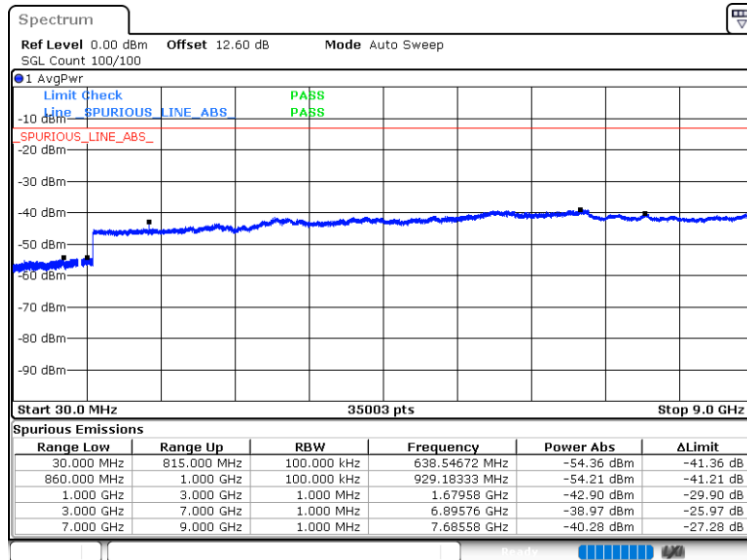
Date: 8.OCT.2024 10:56:46

Middle Channel / QPSK



Date: 8.OCT.2024 10:58:11

Highest Channel / QPSK



Date: 8.OCT.2024 10:59:36

Frequency Stability

Test Conditions		LTE Band 5 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	2.5ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0097	PASS
40	Normal Voltage	0.0043	
30	Normal Voltage	0.0149	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0097	
0	Normal Voltage	0.0079	
-10	Normal Voltage	0.0029	
-20	Normal Voltage	0.0071	
-30	Normal Voltage	0.0057	
20	Maximum Voltage	0.0026	
20	Normal Voltage	0.0000	
20	Minimum Voltage	0.0122	

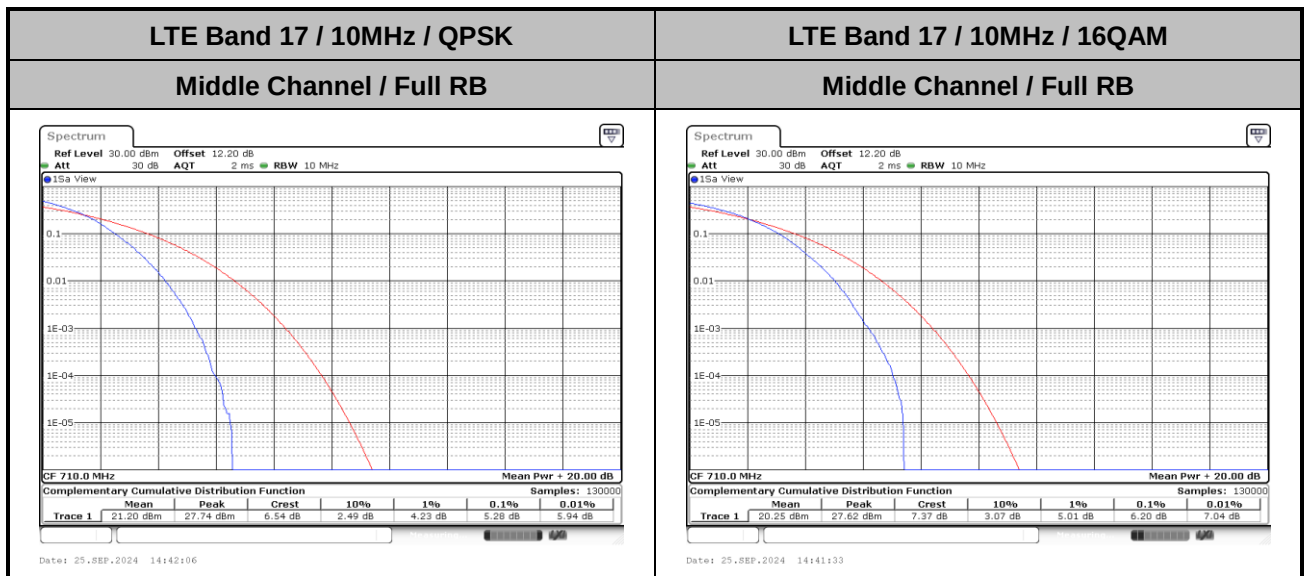
Note: Normal Voltage = 12 V. ; Minimum Voltage = 10.2 V. ; Maximum Voltage = 13.8 V.



LTE Band 17

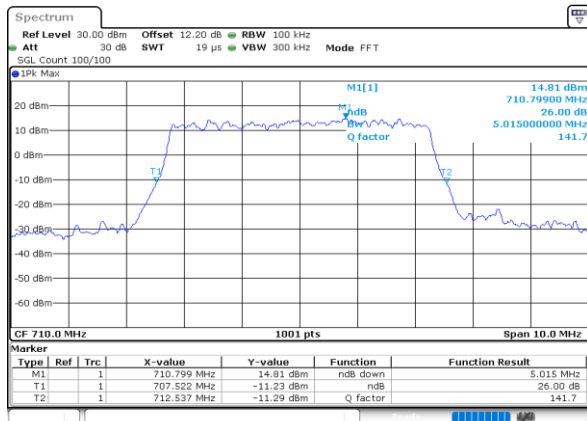
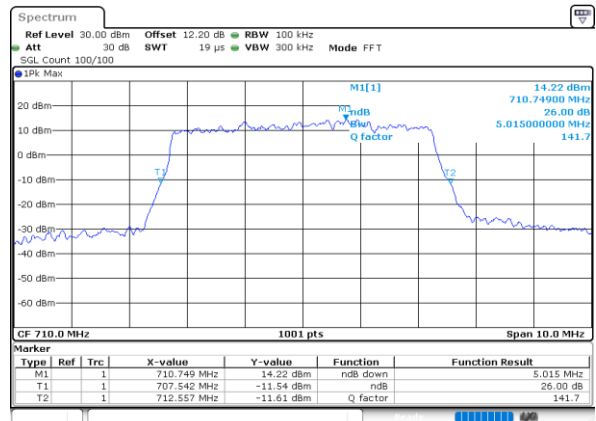
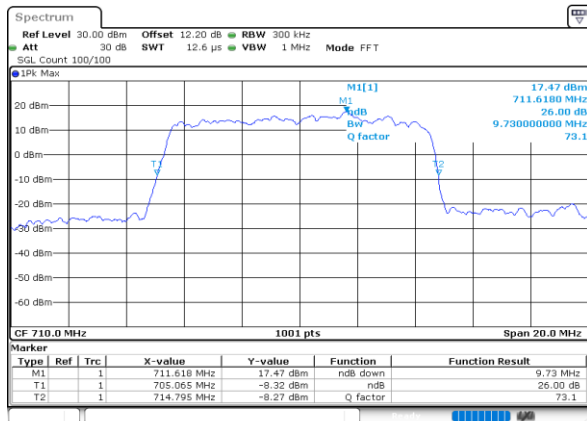
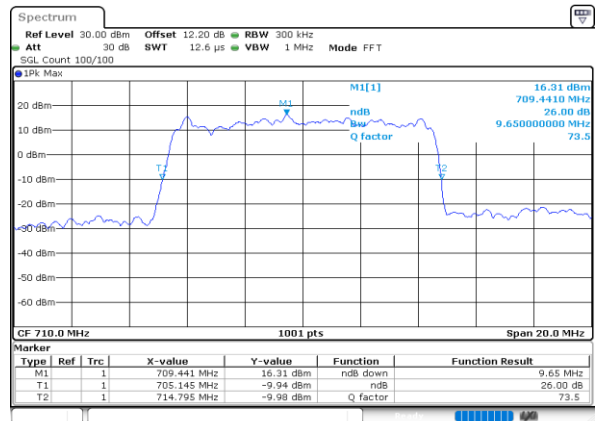
Peak-to-Average Ratio

Mode	LTE Band 17 / 10MHz		
Mod.	QPSK	16QAM	Limit: 13dB
RB Size	Full RB	Full RB	Result
Middle CH	5.28	6.20	PASS



**26dB Bandwidth**

Mode	LTE Band 17 : 26dB BW(MHz)			
BW	5MHz		10MHz	
Mod.	QPSK	16QAM	QPSK	16QAM
Middle CH	5.01	5.01	9.73	9.65

LTE Band 17**Middle Channel / 5MHz / QPSK****Middle Channel / 5MHz / 16QAM****Middle Channel / 10MHz / QPSK****Middle Channel / 10MHz / 16QAM**



Occupied Bandwidth

Mode	LTE Band 17 : 99%OBW(MHz)			
BW	5MHz		10MHz	
Mod.	QPSK	16QAM	QPSK	16QAM
Middle CH	4.48	4.46	9.07	8.89

