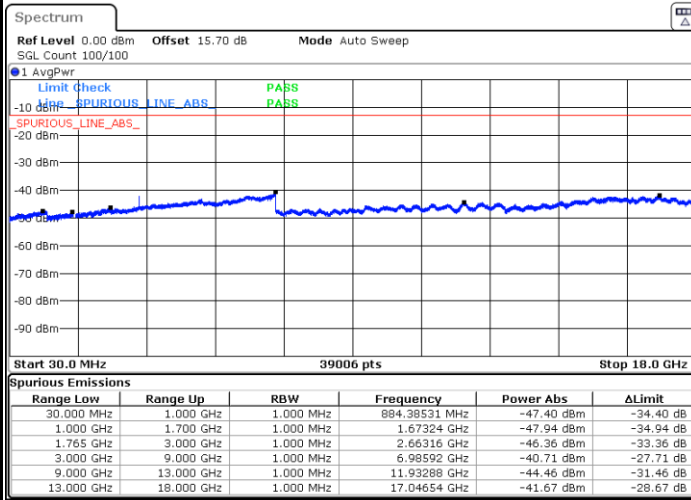




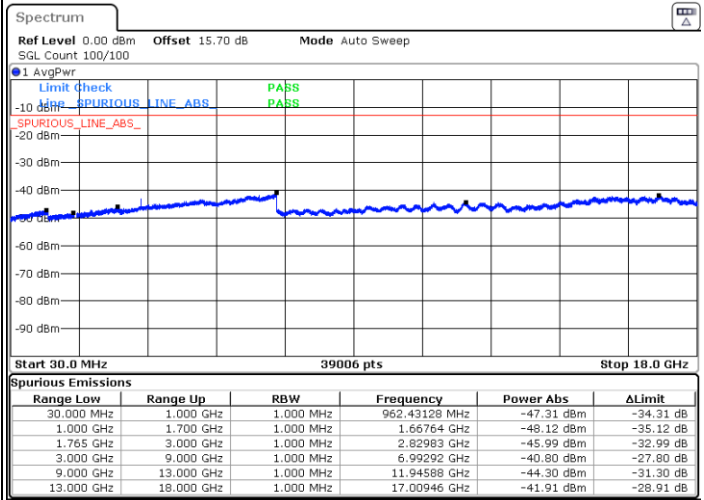
LTE Band 4 / 20MHz

Lowest Channel / QPSK



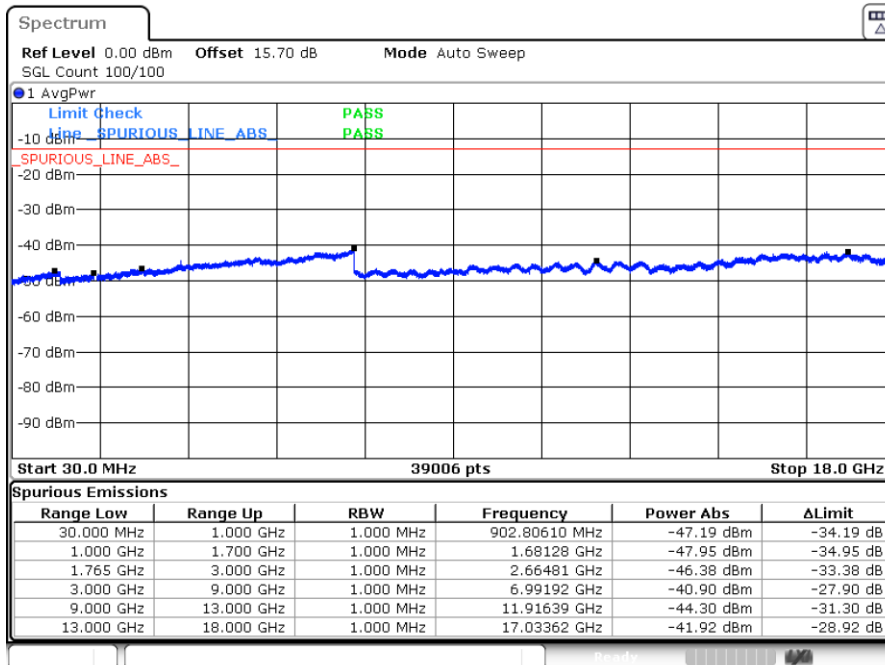
Date: 1.AUG.2025 11:39:18

Middle Channel / QPSK



Date: 1.AUG.2025 11:38:17

Highest Channel / QPSK



Date: 1.AUG.2025 11:40:28

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	0.0019	PASS
40	Normal Voltage	0.0007	
30	Normal Voltage	0.0058	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0006	
0	Normal Voltage	0.0001	
-10	Normal Voltage	0.0002	
-20	Normal Voltage	0.0063	
-30	Normal Voltage	0.0007	
20	Maximum Voltage	0.0009	
20	Normal Voltage	0.0007	
20	Battery End Point	0.0001	

Note:

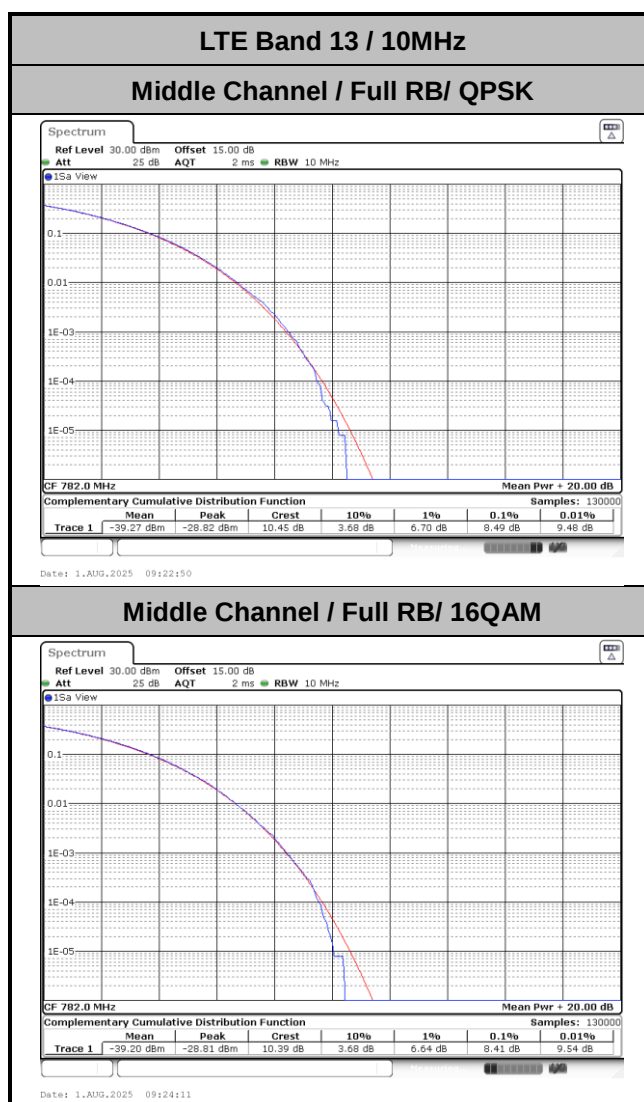
1. Normal Voltage = 3.89V. ; Battery End Point (BEP) =3.1 V. ; Maximum Voltage =4.48 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 13

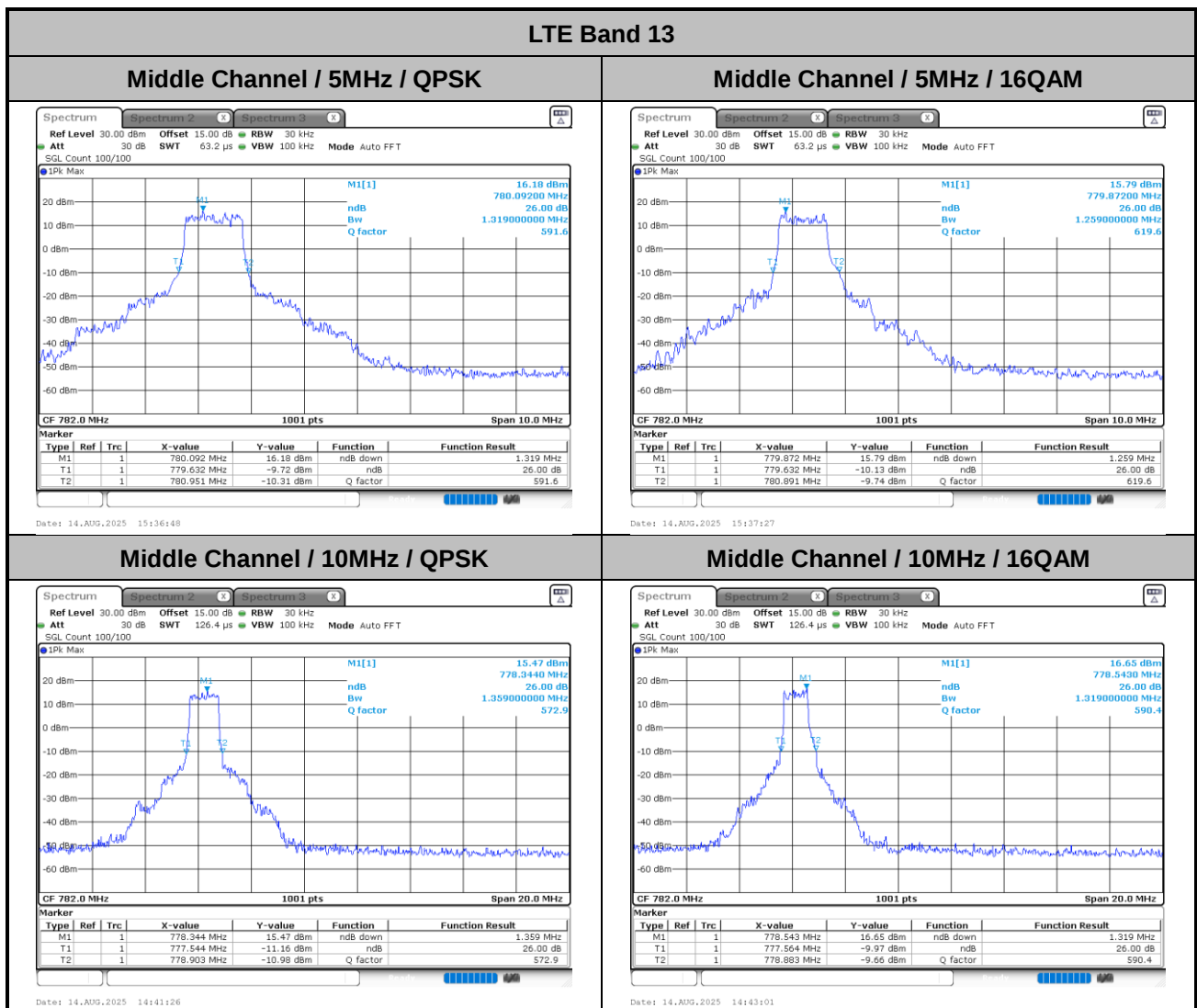
Peak-to-Average Ratio

Mode	LTE Band 13 / 10MHz		
Mod.	QPSK	16QAM	Limit: 13dB
RB Size	Full RB	Full RB	Result
Middle CH	8.49	8.41	PASS



**26dB Bandwidth**

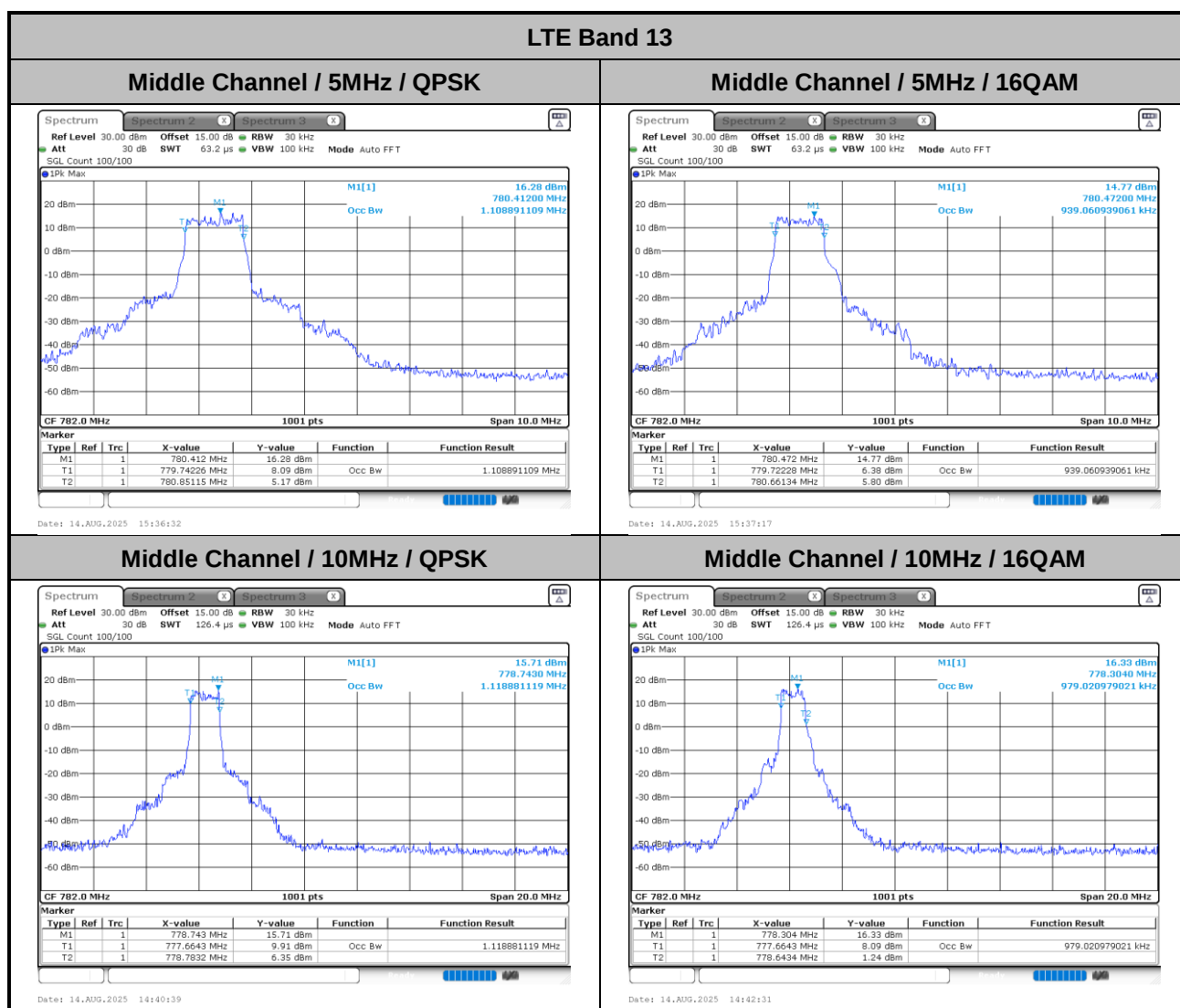
Mode	LTE Band 13 : 26dB BW(MHz)	
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	1.32	1.26
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	1.36	1.32





Occupied Bandwidth

Mode	LTE Band 13 : 99%OBW(MHz)	
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	1.109	0.939
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	1.119	0.979

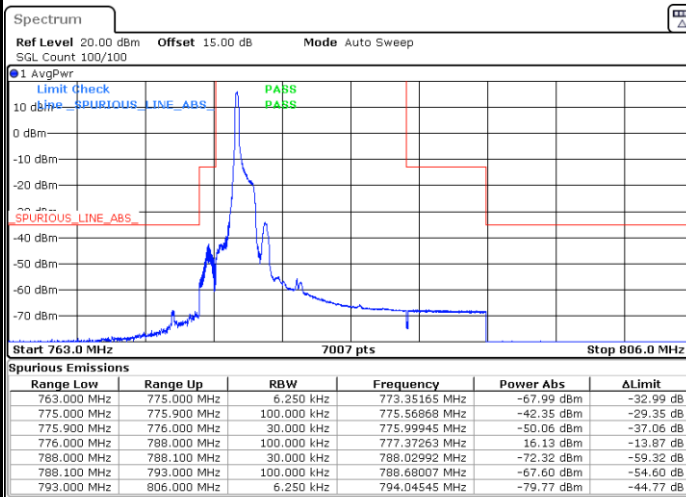




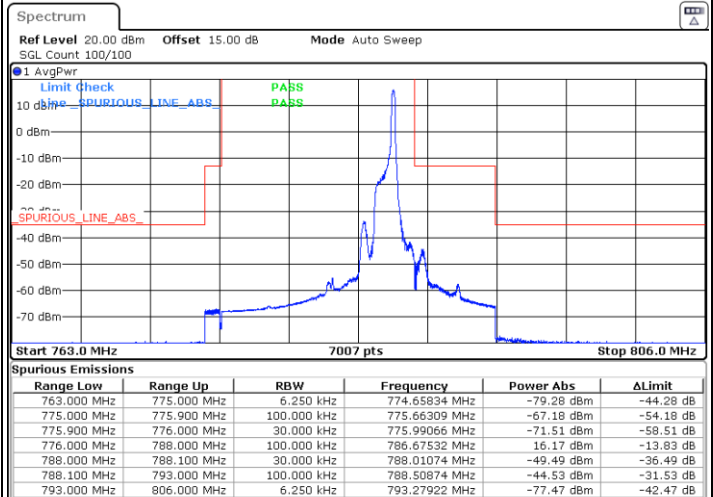
Conducted Band Edge

LTE Band 13 / 5MHz / QPSK

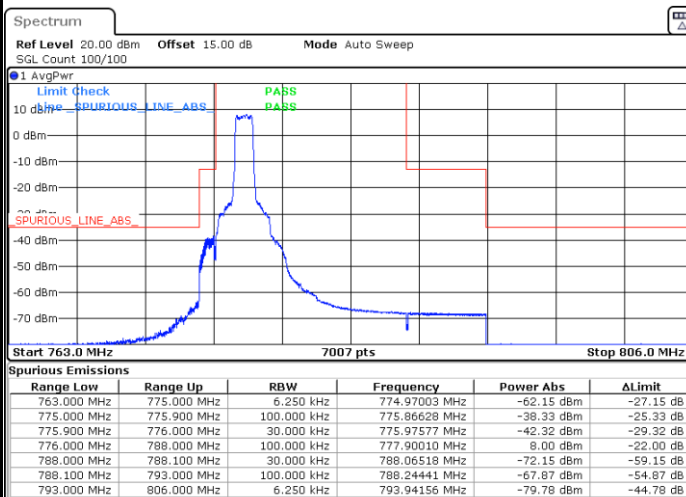
Lowest Band Edge / 1 RB



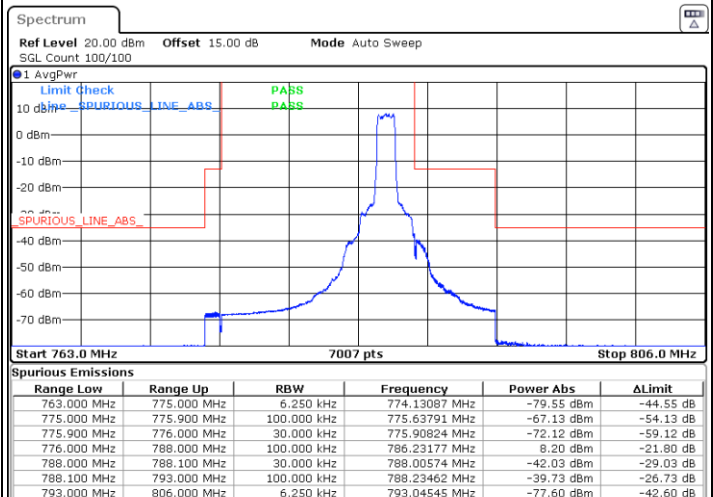
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



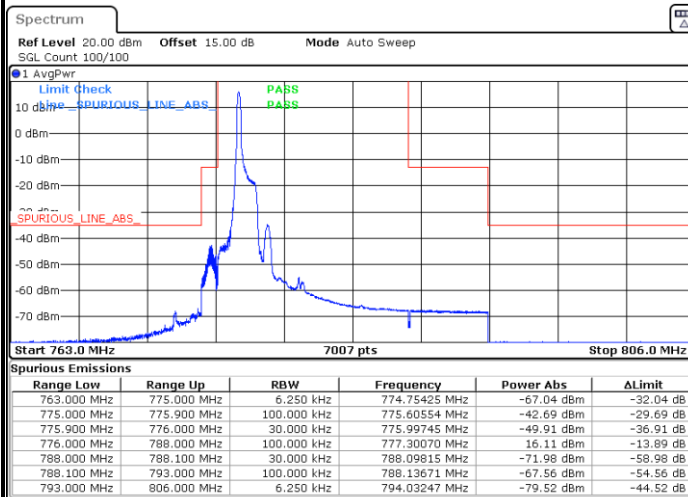
Highest Band Edge / Full RB



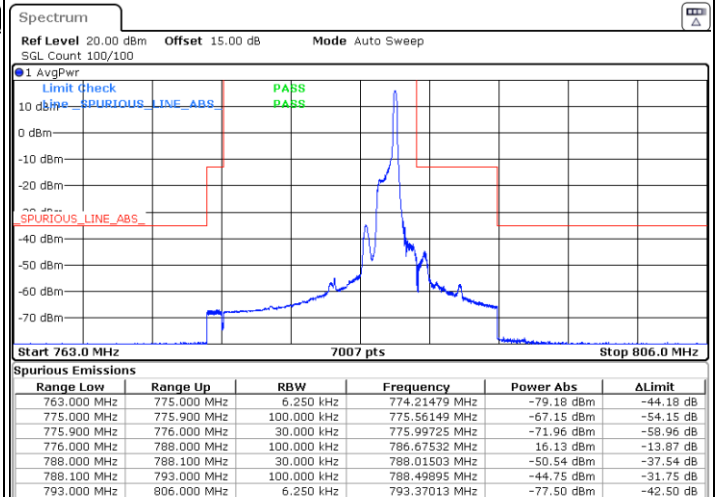


LTE Band 13 / 5MHz / 16QAM

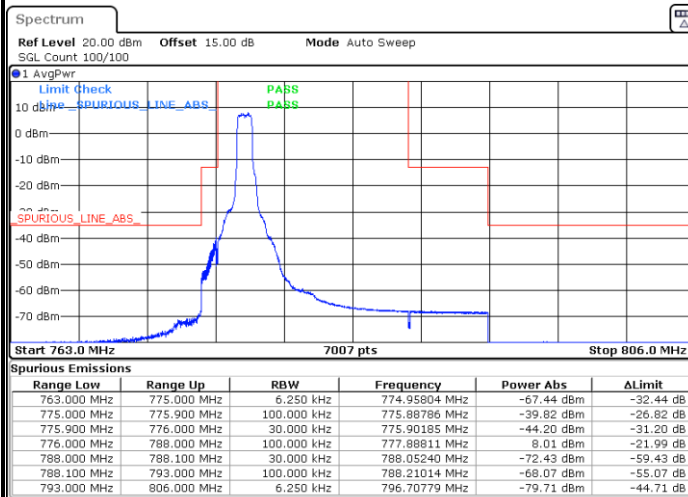
Lowest Band Edge / 1RB



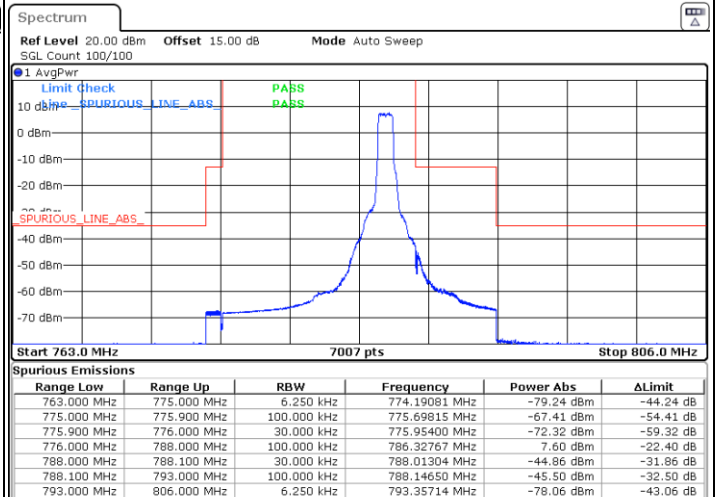
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



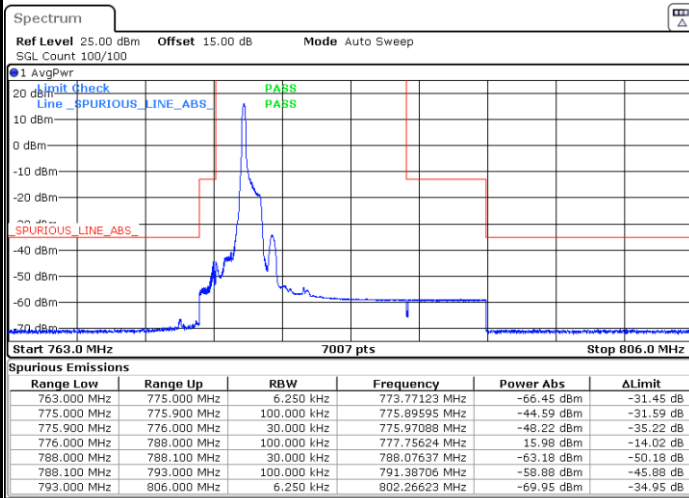
Highest Band Edge / Full RB



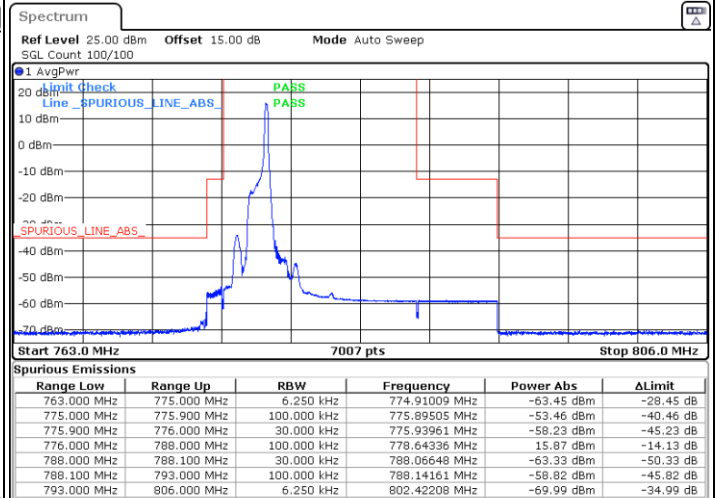


LTE Band 13 / 10MHz / QPSK

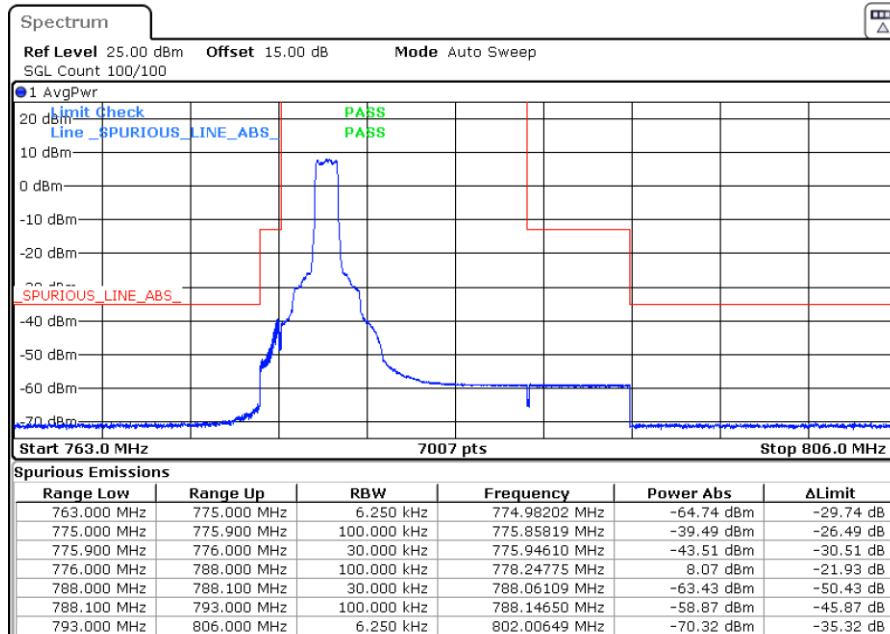
middle Band Edge / 1 RB



middle Band Edge / 1 RB



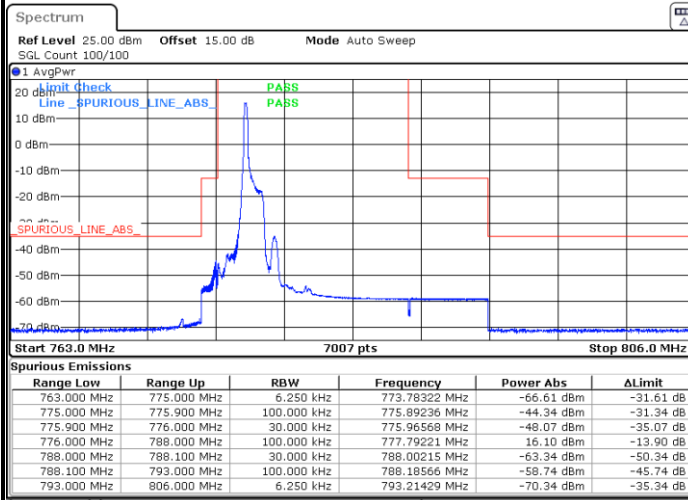
Middle Band Edge / Full RB



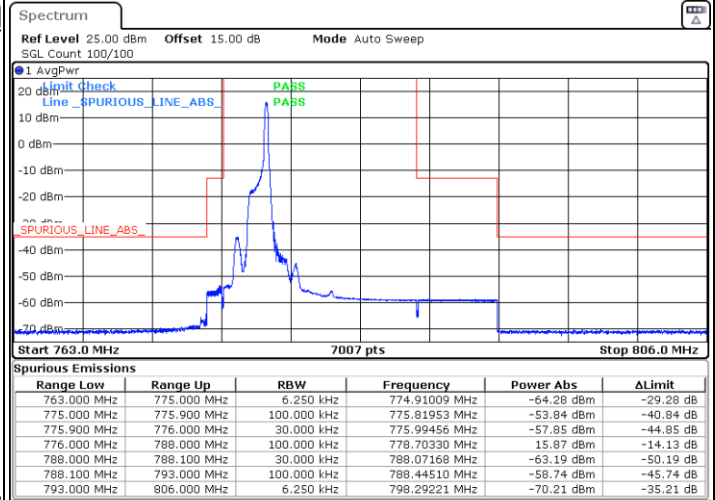


LTE Band 13 / 10MHz / 16QAM

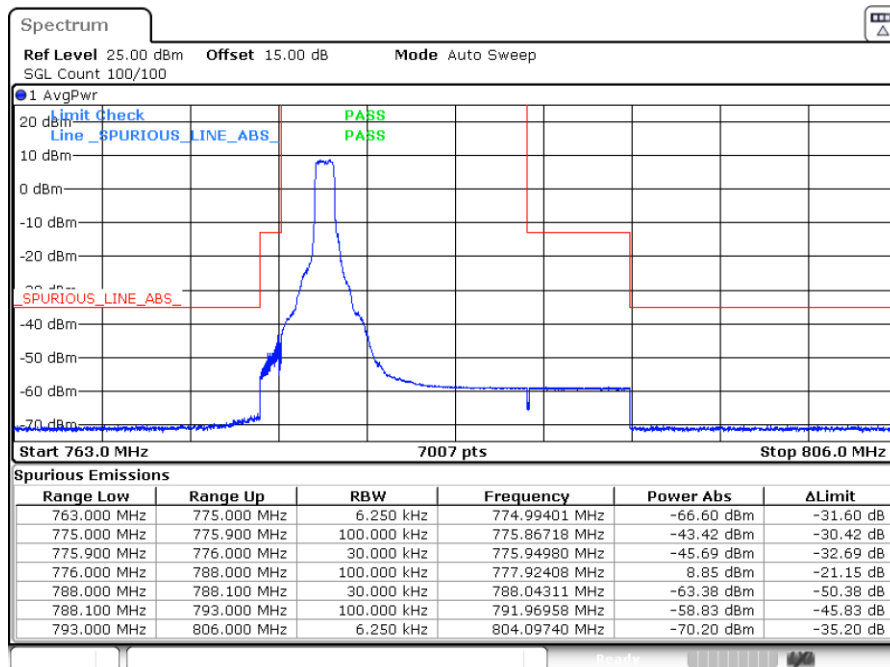
middle Band Edge / 1 RB



middle Band Edge / 1 RB



middle Band Edge / Full RB

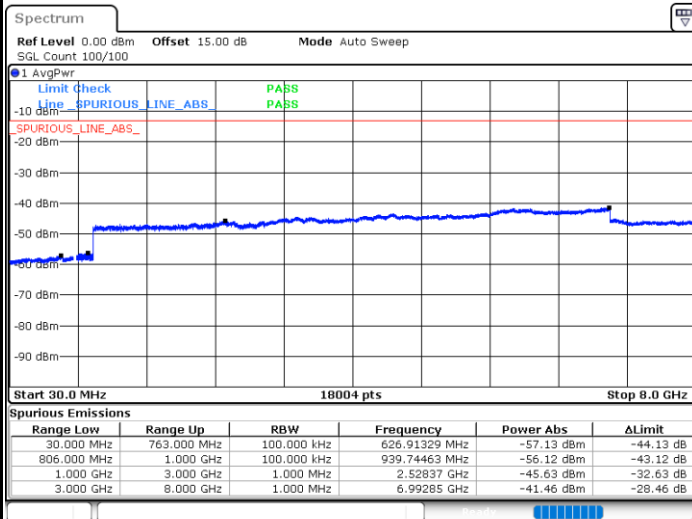




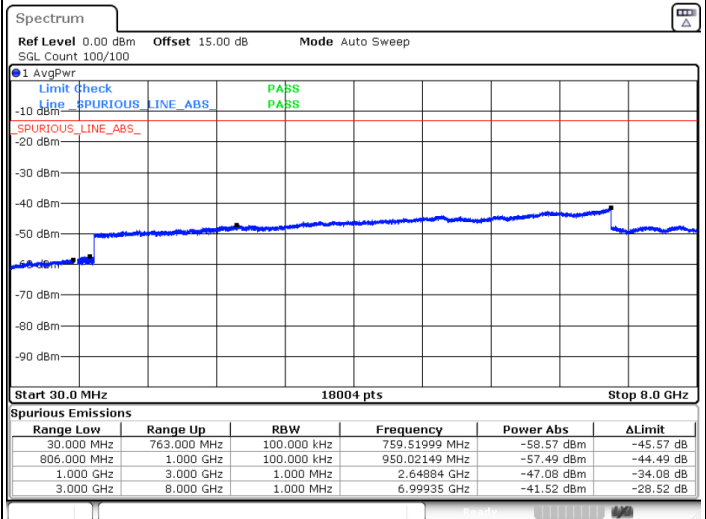
Conducted Spurious Emission

LTE Band 13 / 5MHz

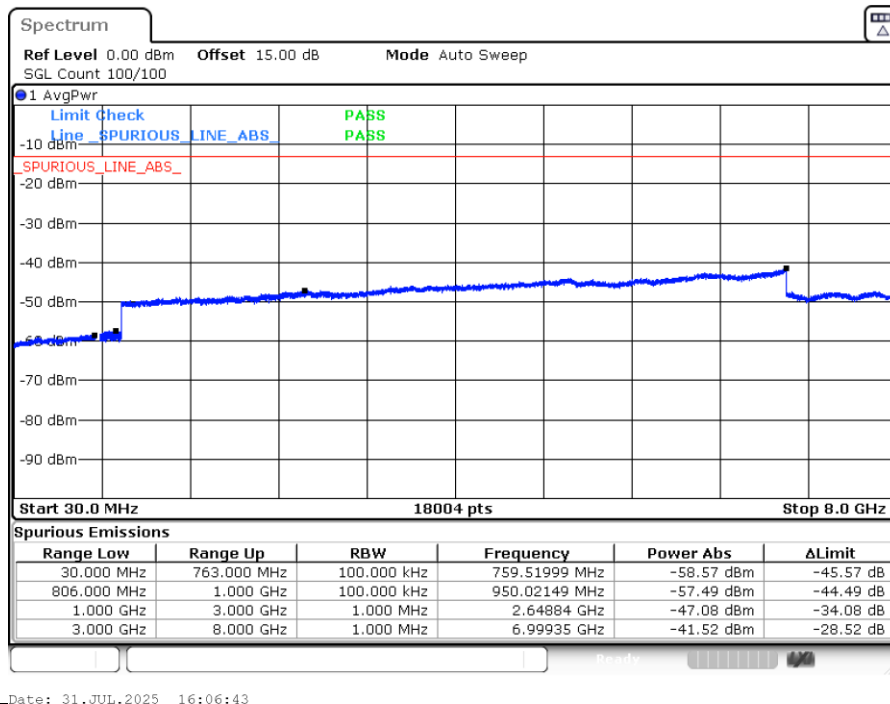
Lowest Channel / QPSK



Middle Channel / QPSK



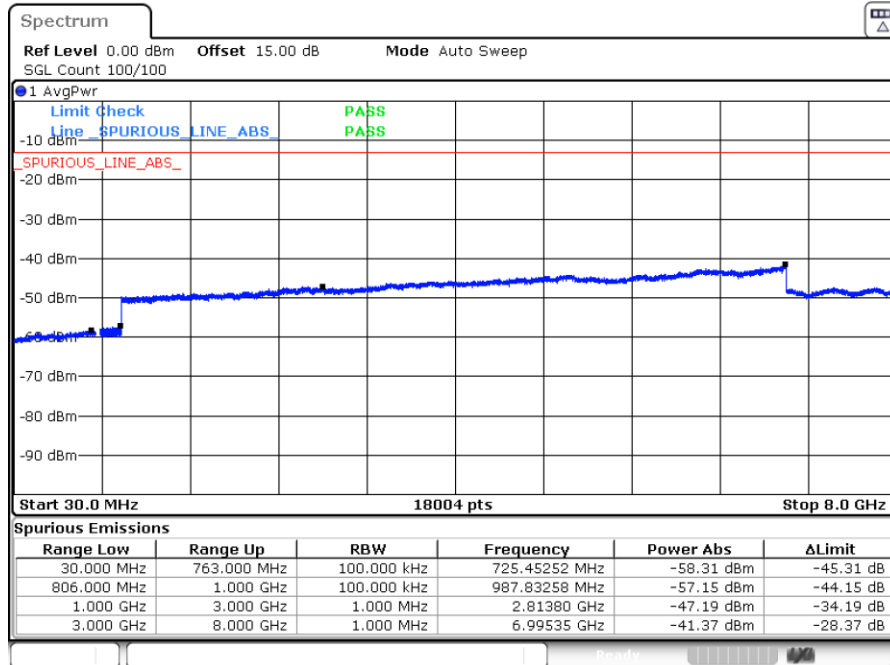
Highest Channel / QPSK





LTE Band 13 / 10MHz

Middle Channel / QPSK



Date: 1.AUG.2025 09:07:10

Frequency Stability

Test Conditions		LTE Band 13 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0021	PASS
40	Normal Voltage	0.0010	
30	Normal Voltage	0.0004	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0007	
0	Normal Voltage	0.0003	
-10	Normal Voltage	0.0005	
-20	Normal Voltage	0.0016	
-30	Normal Voltage	0.0003	
20	Maximum Voltage	0.0010	
20	Normal Voltage	0.0013	
20	Battery End Point	0.0023	

Note:

1. Normal Voltage =3.89 V. ; Battery End Point (BEP) =3.1V. ; Maximum Voltage =4.48 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

Test Engineer :	Chris	Temperature :	21~25℃
		Relative Humidity :	51~53%

LTE Band 4 / 20MHz / QPSK								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3450	-48.03	-13	-35.03	-58.77	2.604	13.34	H
	5175	-54.82	-13	-41.82	-65.33	3.011	13.52	H
	6900	-54.54	-13	-41.54	-64.74	3.271	13.47	H
	3450	-51.92	-13	-38.92	-62.66	2.604	13.34	V
	5175	-54.75	-13	-41.75	-65.26	3.011	13.52	V
	6900	-53.93	-13	-40.93	-64.13	3.271	13.47	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

LTE Band 13 / 10MHz / QPSK								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1552	-60.49	-13	-47.49	-63.12	1.09	5.87	H
	2336	-59.45	-13	-46.45	-61.85	1.37	5.92	H
	3112	-60.48	-13	-47.48	-64.37	1.64	7.68	H
	1552	-64.01	-13	-51.01	-66.64	1.09	5.87	V
	2336	-53.30	-13	-40.30	-55.70	1.37	5.92	V
	3112	-59.41	-13	-46.41	-63.30	1.64	7.68	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.