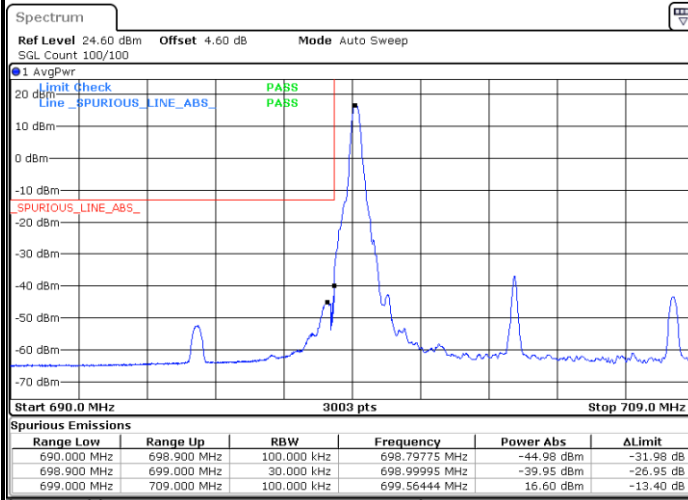


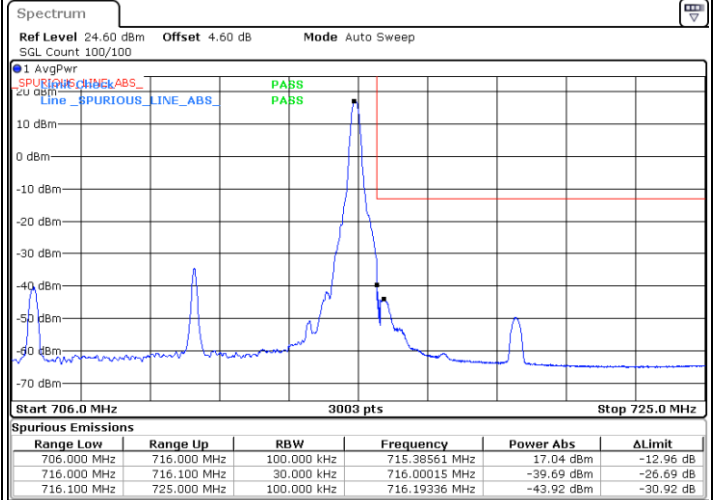


LTE Band 12 / 10MHz / 256QAM

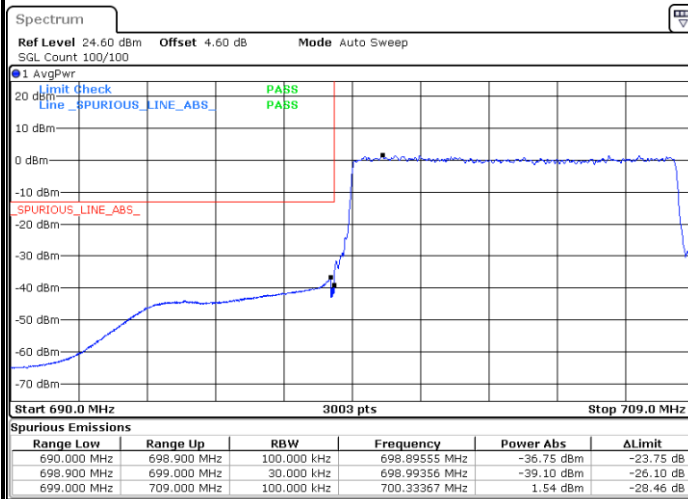
Lowest Band Edge / 1 RB



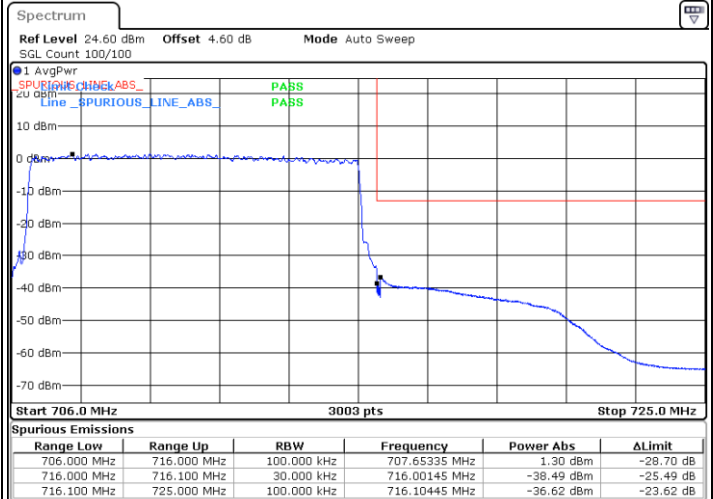
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

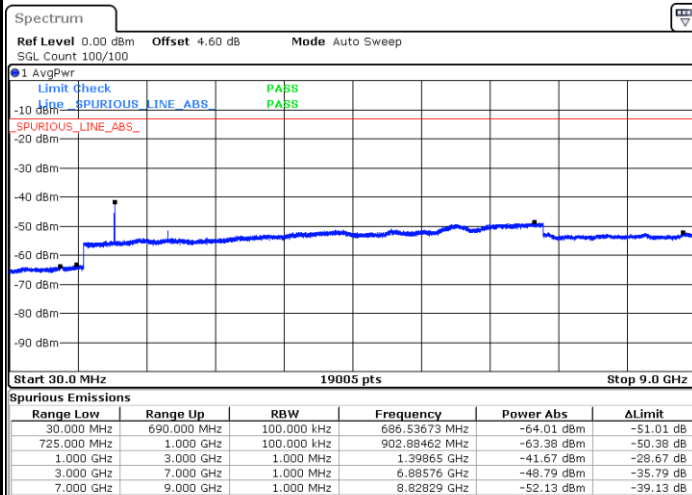




Conducted Spurious Emission

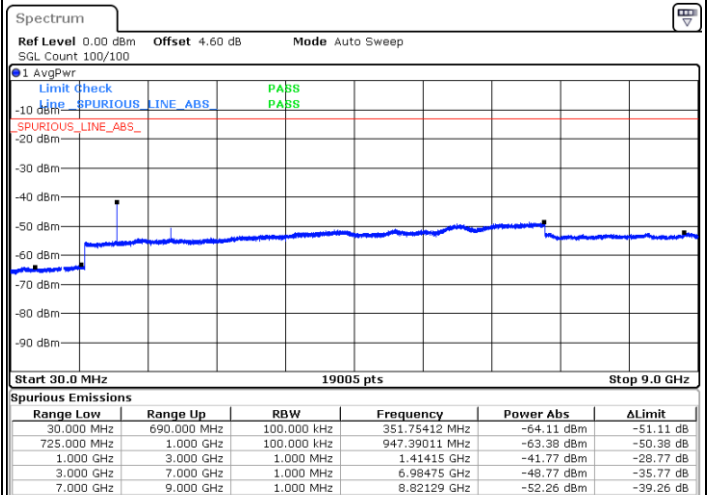
LTE Band 12 / 1.4MHz

Lowest Channel / QPSK



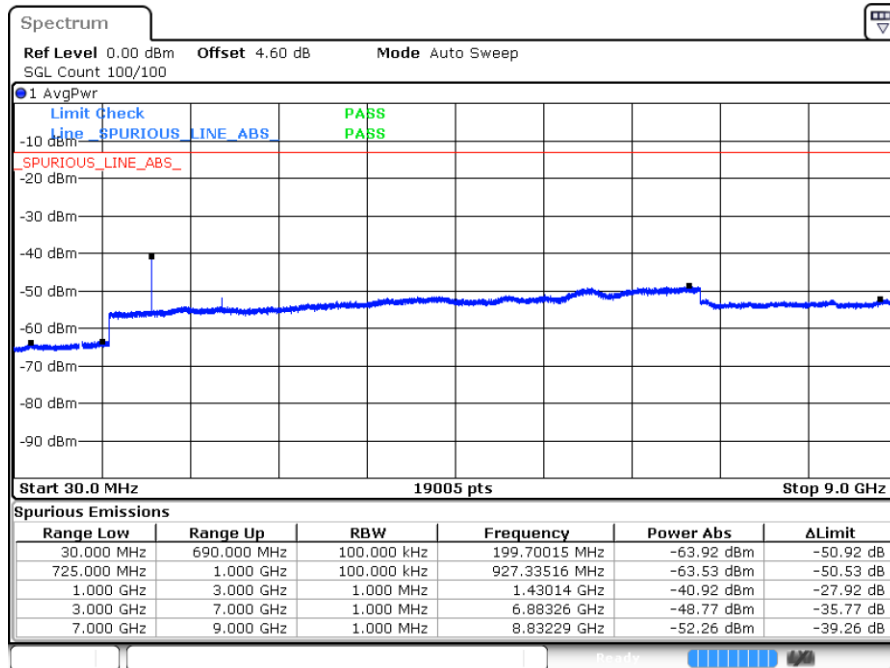
Date: 15.OCT.2024 01:41:11

Middle Channel / QPSK



Date: 15.OCT.2024 02:00:40

Highest Channel / QPSK

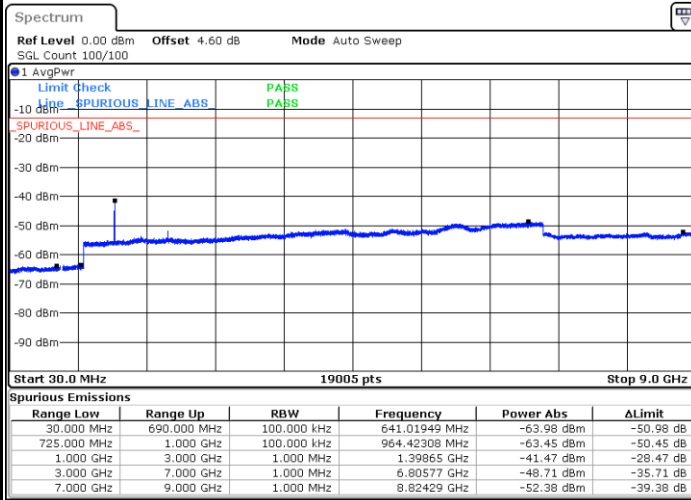


Date: 15.OCT.2024 02:01:56



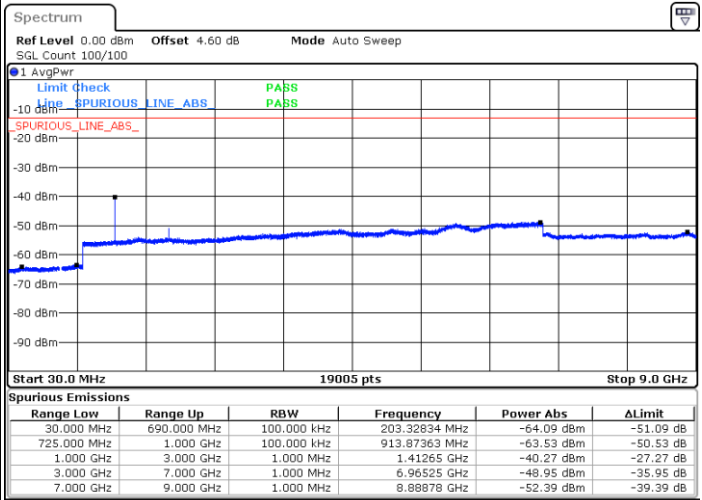
LTE Band 12 / 3MHz

Lowest Channel / QPSK



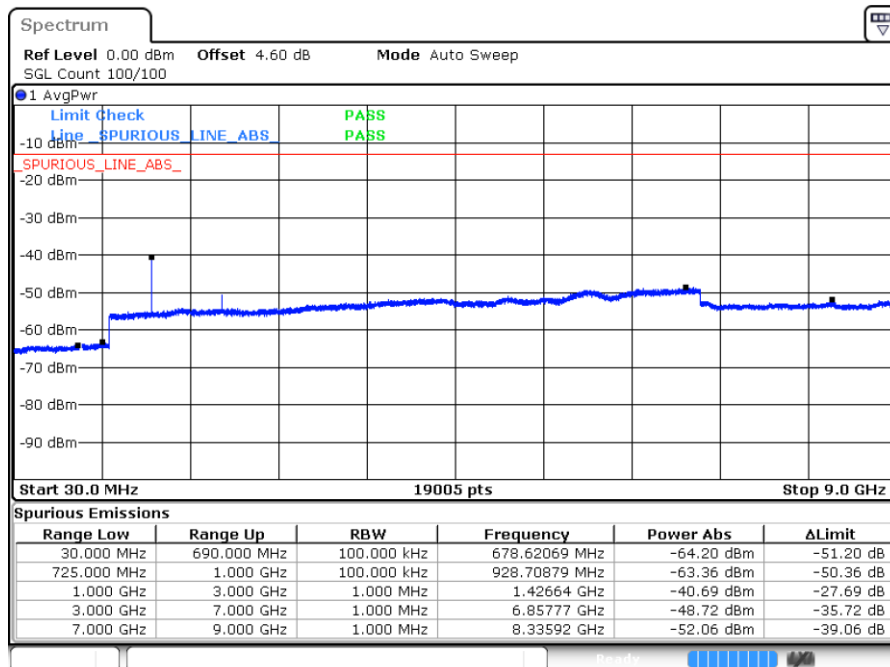
Date: 15.OCT.2024 02:11:09

Middle Channel / QPSK



Date: 15.OCT.2024 02:23:35

Highest Channel / QPSK

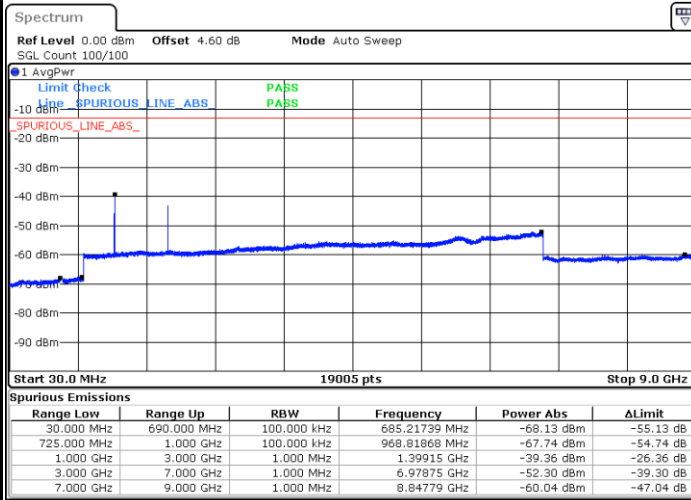


Date: 15.OCT.2024 02:24:57



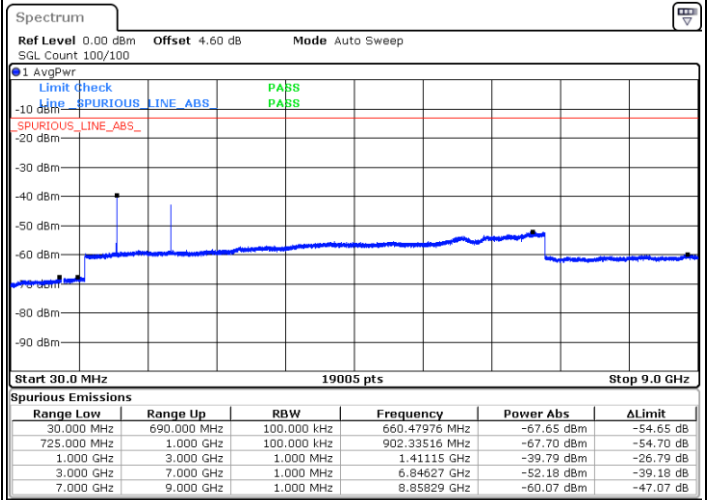
LTE Band 12 / 5MHz

Lowest Channel / QPSK



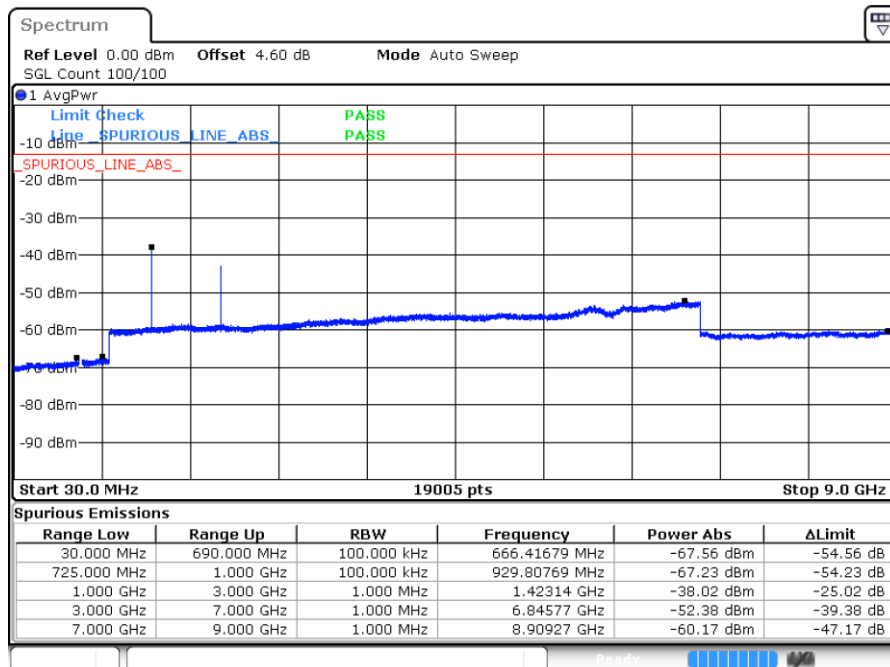
Date: 15.OCT.2024 02:33:15

Middle Channel / QPSK



Date: 15.OCT.2024 02:43:50

Highest Channel / QPSK

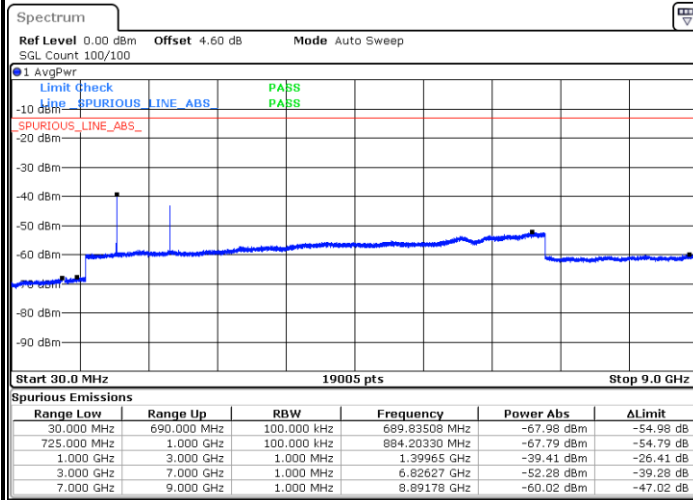


Date: 15.OCT.2024 02:45:10



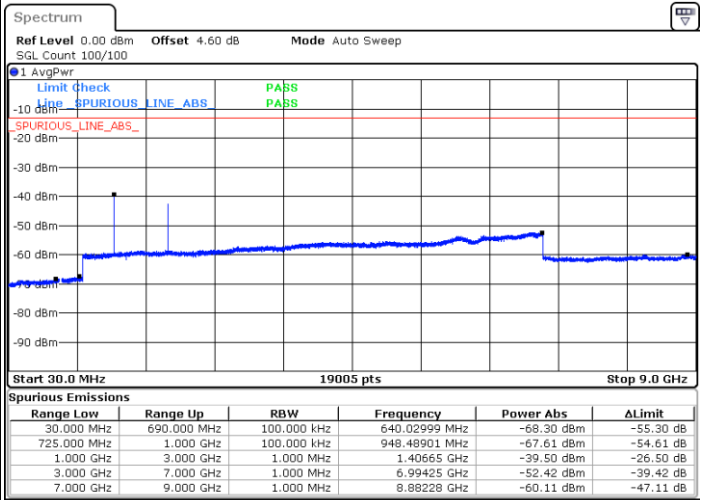
LTE Band 12 / 10MHz

Lowest Channel / QPSK



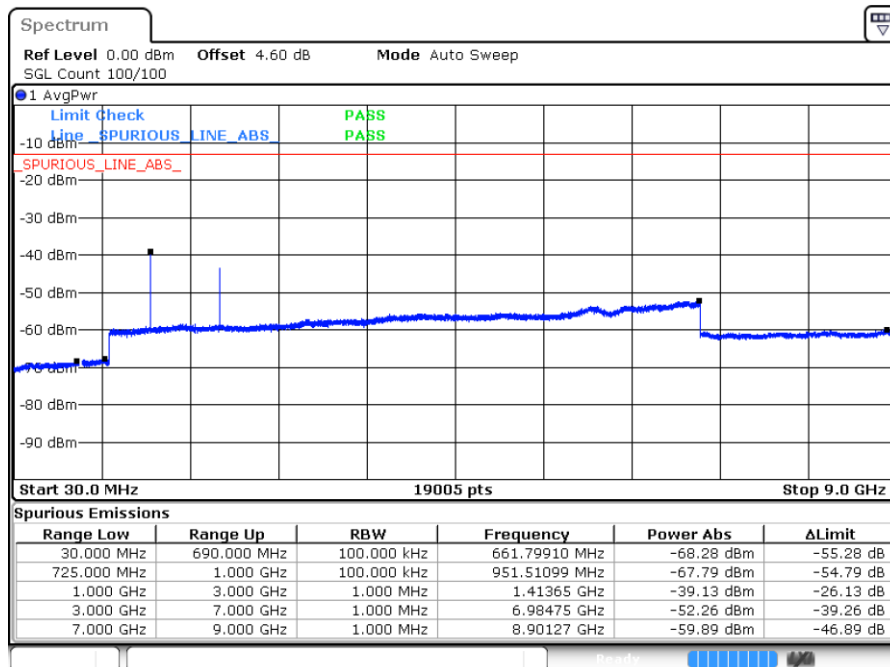
Date: 15.OCT.2024 02:55:47

Middle Channel / QPSK



Date: 15.OCT.2024 03:06:22

Highest Channel / QPSK



Date: 15.OCT.2024 03:07:41

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	0.0032	PASS
40	Normal Voltage	0.0015	
30	Normal Voltage	0.0013	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0002	
0	Normal Voltage	0.0048	
-10	Normal Voltage	0.0026	
-20	Normal Voltage	0.0029	
-30	Normal Voltage	0.0053	
20	Maximum Voltage	0.0011	
20	Normal Voltage	0.0005	
20	Battery End Point	0.0017	

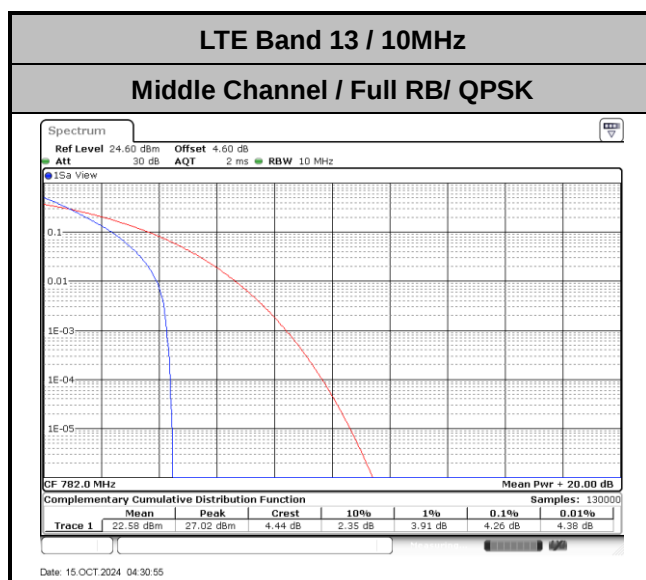
Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.3 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

LTE Band 13

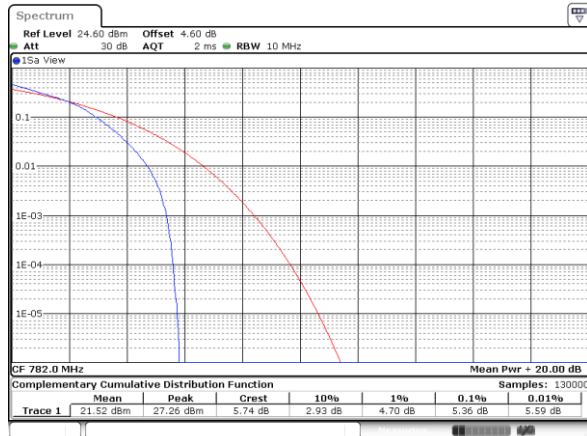
Peak-to-Average Ratio

Mode	LTE Band 13 / 10MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.26	5.36	6.06	6.38	PASS



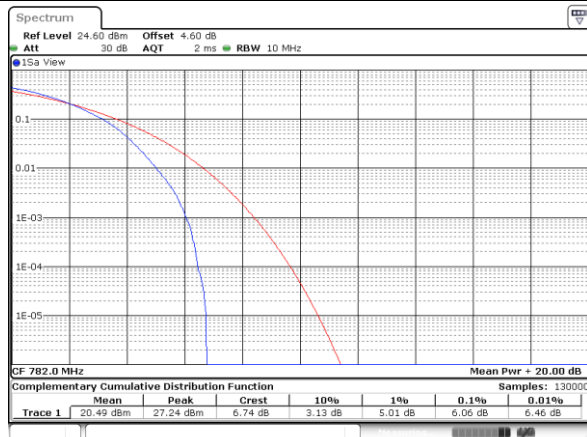


Middle Channel / Full RB/ 16QAM



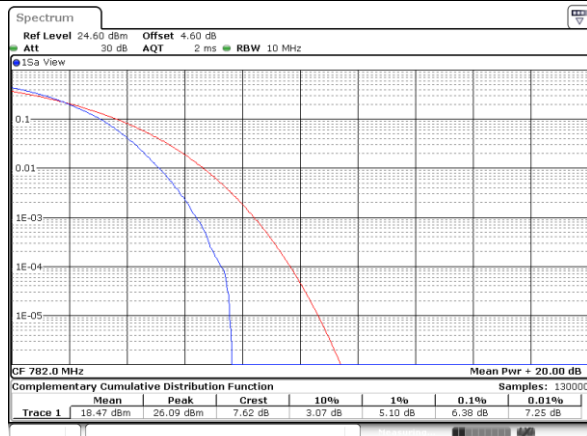
Date: 15.OCT.2024 04:31:18

Middle Channel / Full RB/ 64QAM



Date: 15.OCT.2024 04:31:40

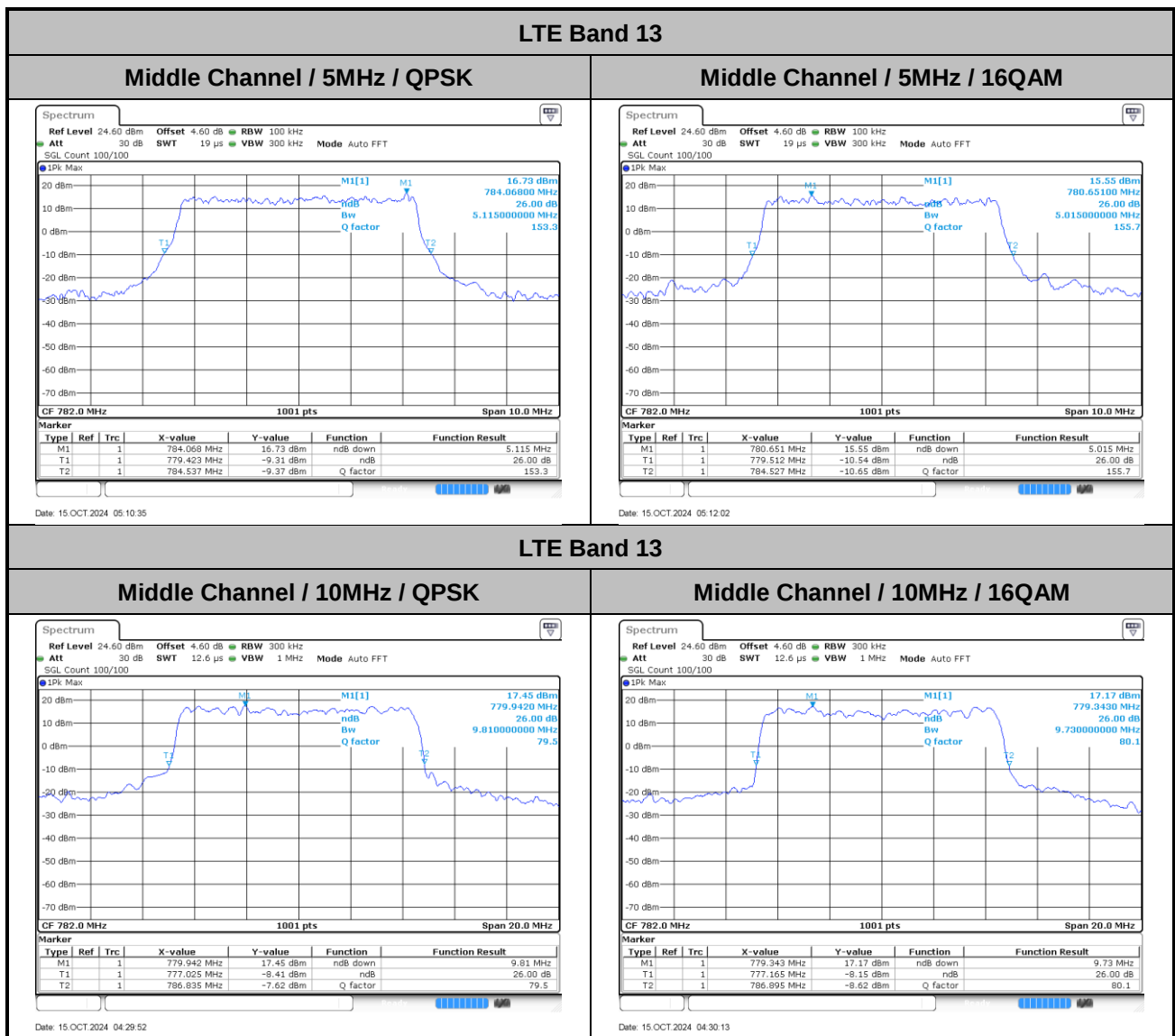
Middle Channel / Full RB/ 256QAM



Date: 15.OCT.2024 04:32:02

**26dB Bandwidth**

Mode	LTE Band 13 : 26dB BW(MHz)	
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	5.115	5.015
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.81	9.73



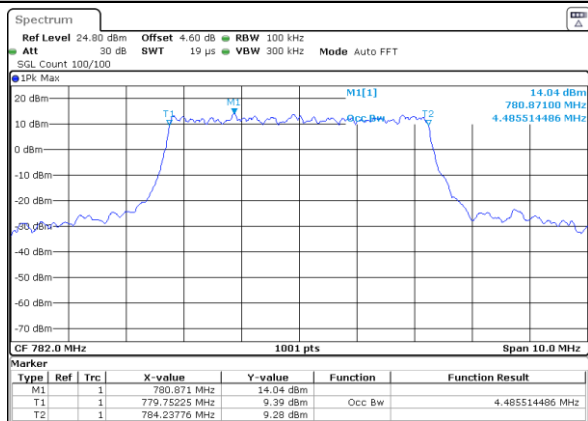


Occupied Bandwidth

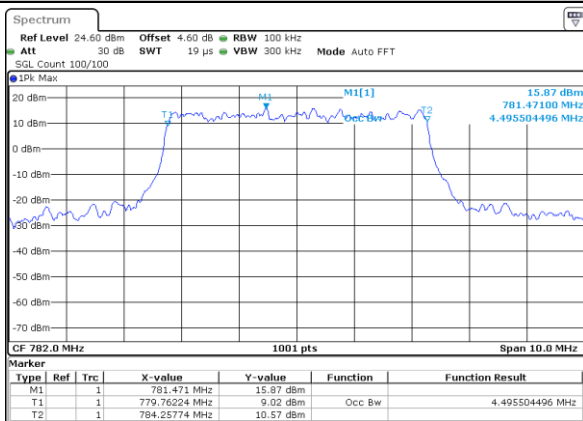
Mode	LTE Band 13 : 99%OBW(MHz)	
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	4.486	4.496
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.031	9.051

LTE Band 13

Middle Channel / 5MHz / QPSK



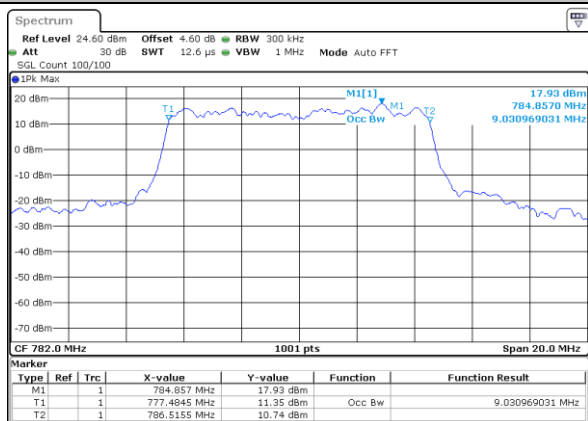
Middle Channel / 5MHz / 16QAM



Date: 15.OCT.2024 05:11:23

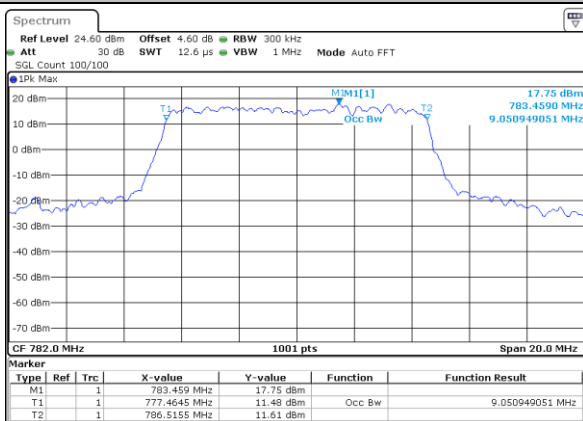
LTE Band 13

Middle Channel / 10MHz / QPSK



Date: 15.OCT.2024 04:30:33

Middle Channel / 10MHz / 16QAM



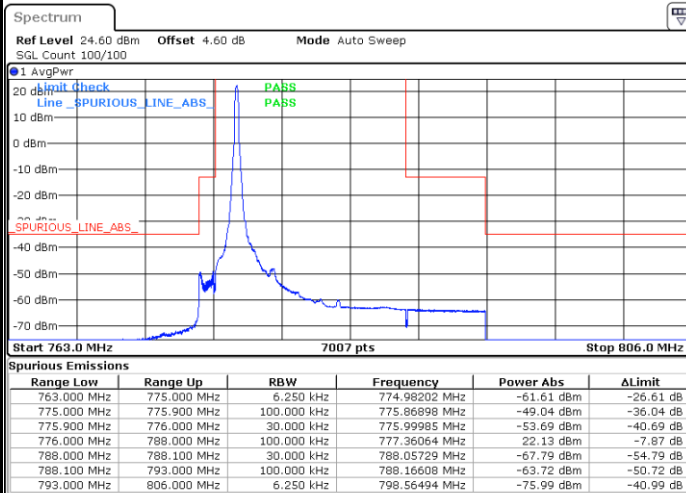
Date: 15.OCT.2024 04:29:31



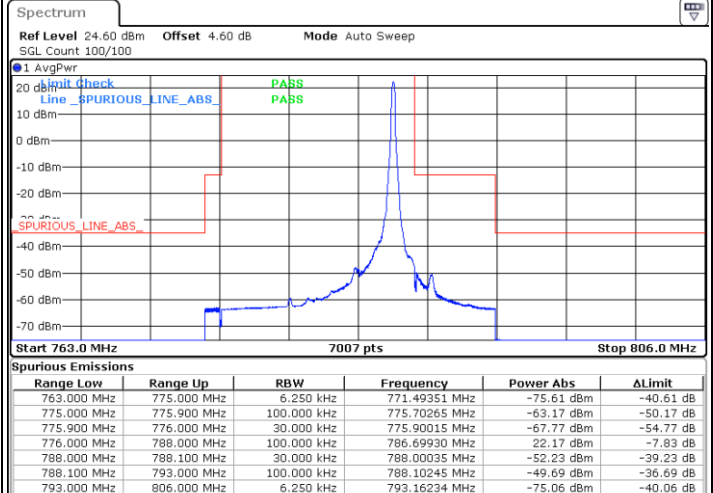
Conducted Band Edge

LTE Band 13 / 5MHz / QPSK

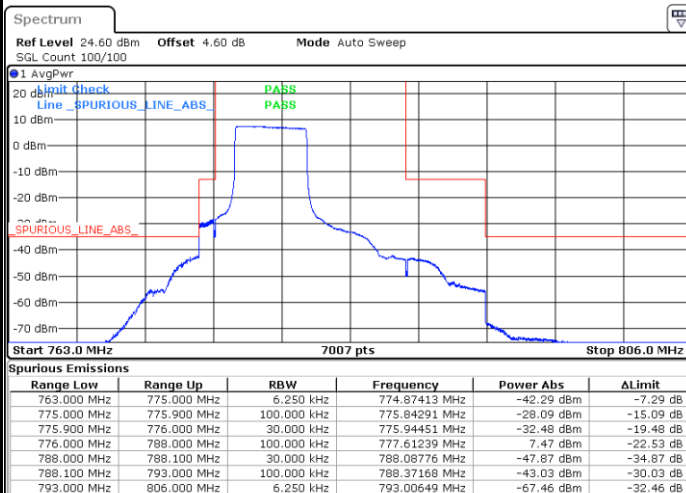
Lowest Band Edge / 1 RB



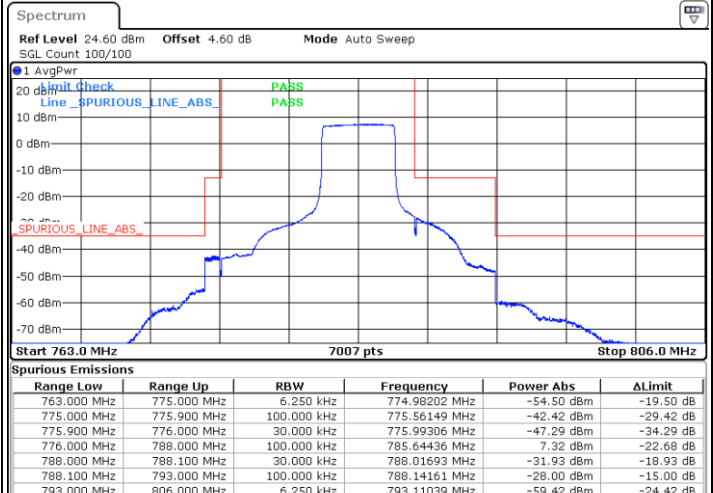
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



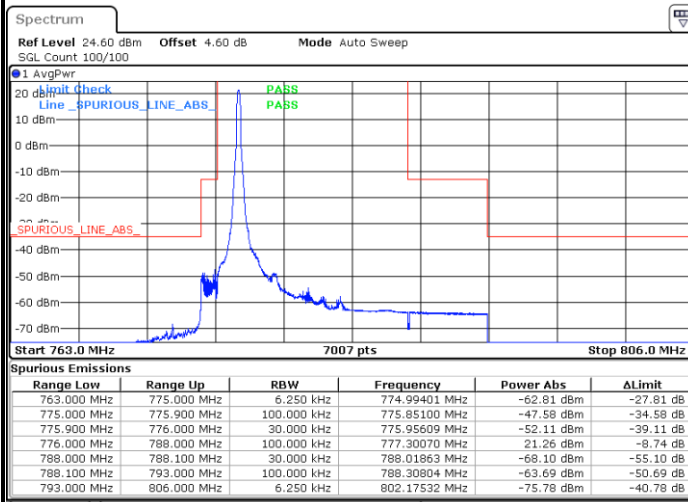
Highest Band Edge / Full RB





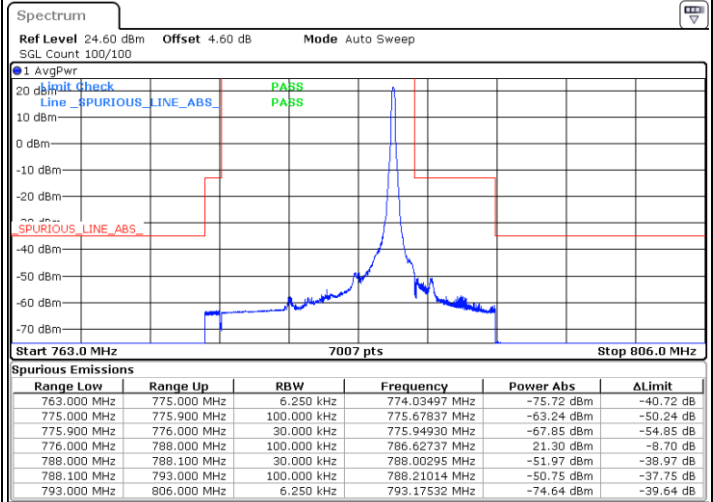
LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1RB



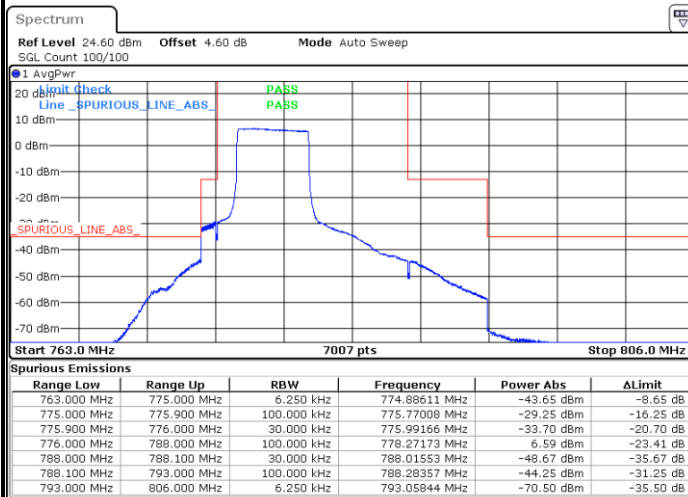
Date: 15.OCT.2024 03:34:14

Highest Band Edge / 1 RB



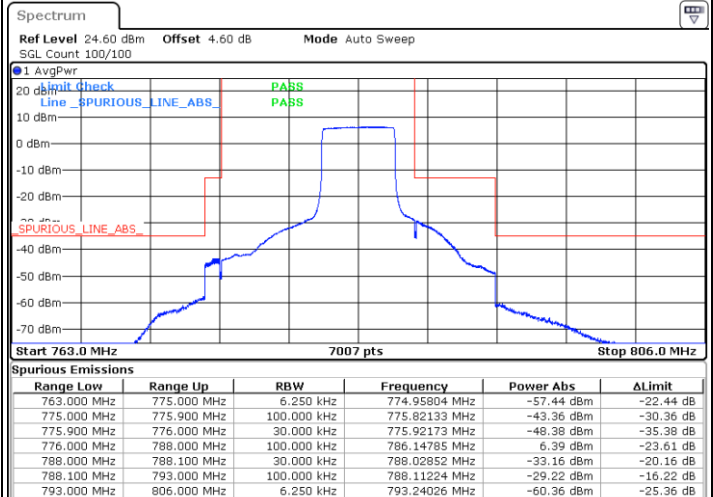
Date: 15.OCT.2024 03:51:29

Lowest Band Edge / Full RB



Date: 15.OCT.2024 03:41:33

Highest Band Edge / Full RB

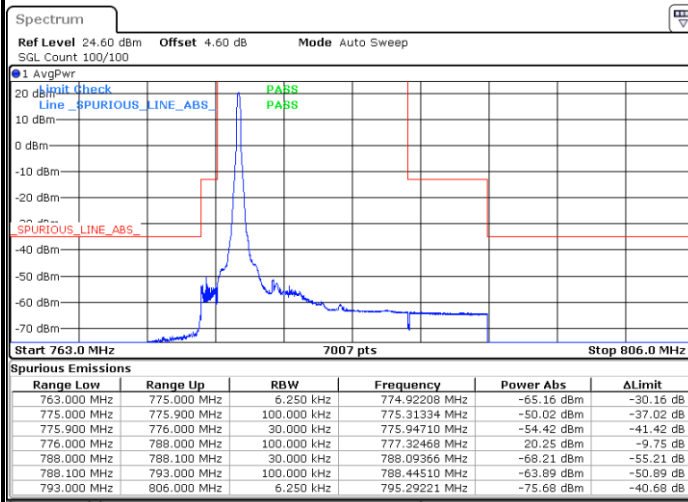


Date: 15.OCT.2024 03:58:48



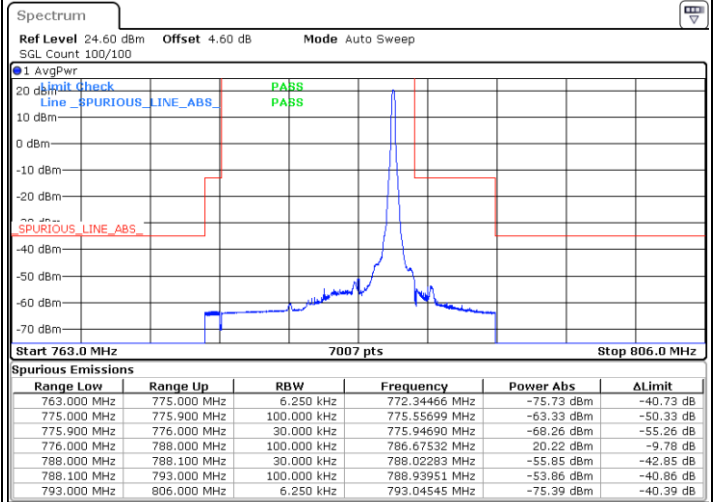
LTE Band 13 / 5MHz / 64QAM

Lowest Band Edge / 1RB



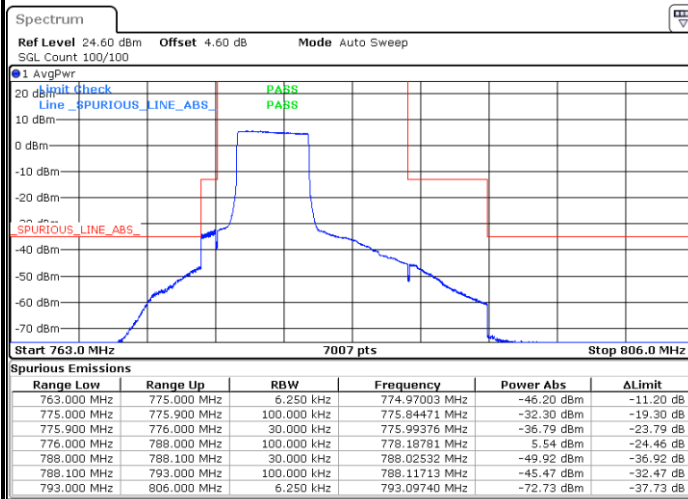
Date: 15.OCT.2024 03:36:04

Highest Band Edge / 1 RB



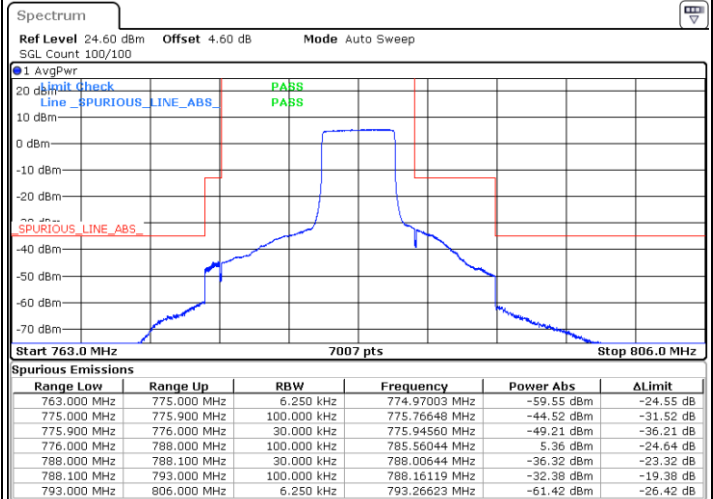
Date: 15.OCT.2024 03:53:19

Lowest Band Edge / Full RB



Date: 15.OCT.2024 03:43:22

Highest Band Edge / Full RB

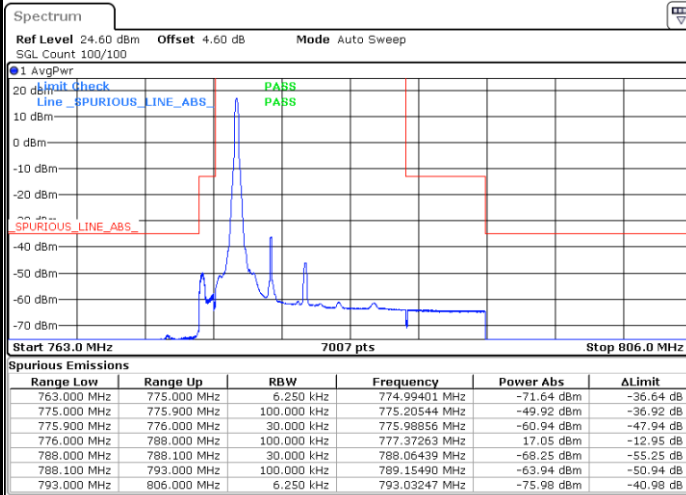


Date: 15.OCT.2024 04:00:37

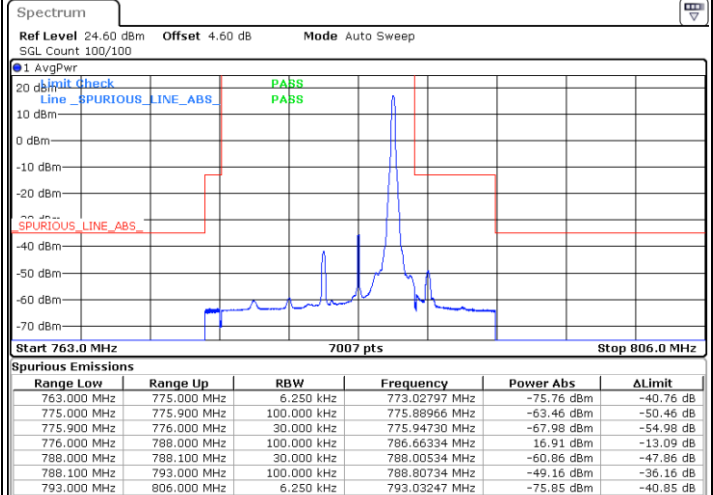


LTE Band 13 / 5MHz / 256QAM

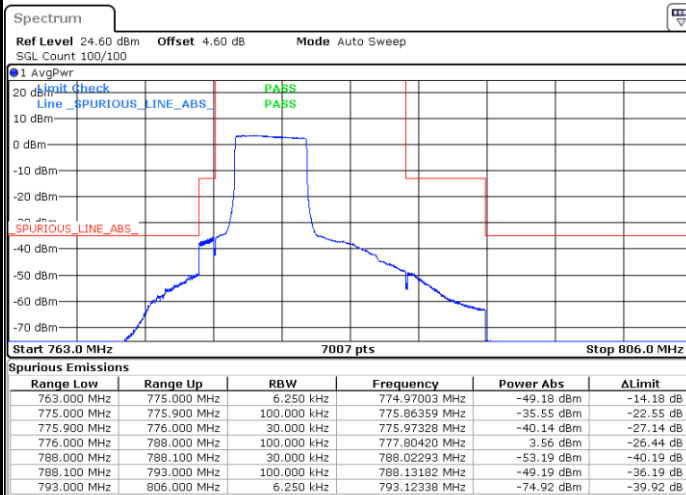
Lowest Band Edge / 1RB



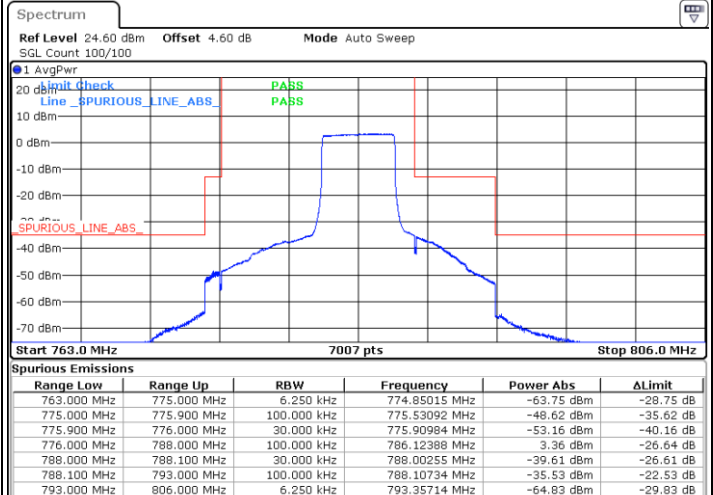
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



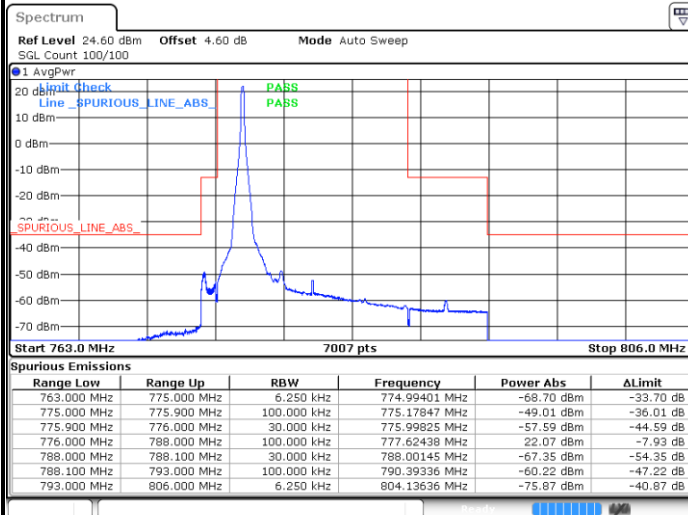
Highest Band Edge / Full RB



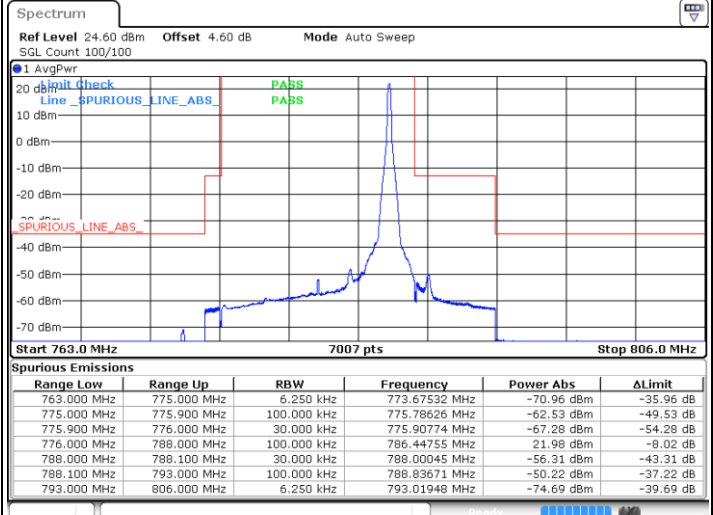


LTE Band 13 / 10MHz / QPSK

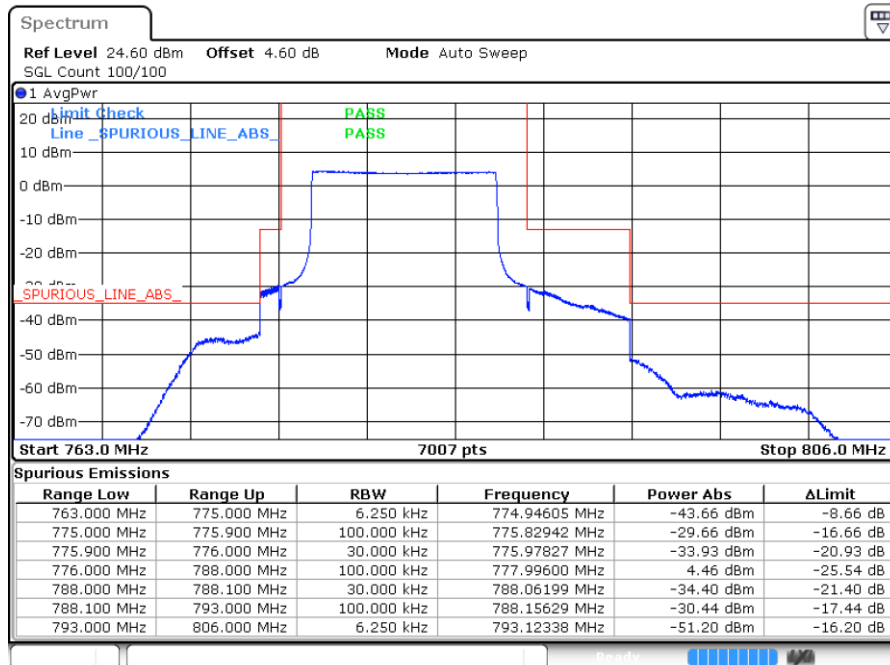
middle Band Edge / 1 RB



middle Band Edge / 1 RB



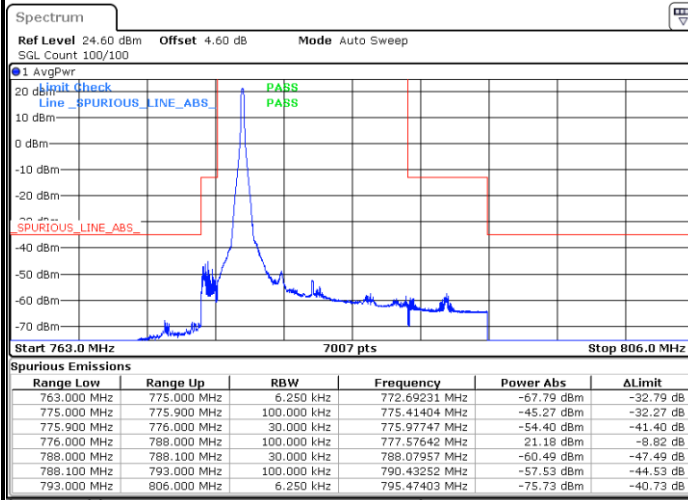
Middle Band Edge / Full RB





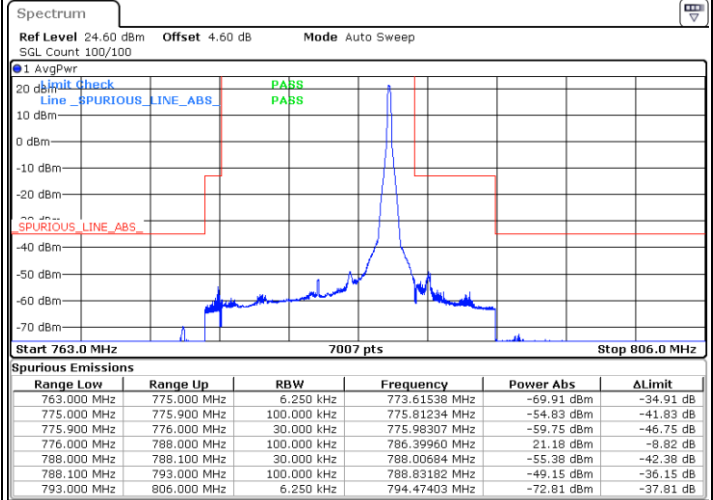
LTE Band 13 / 10MHz / 16QAM

middle Band Edge / 1 RB



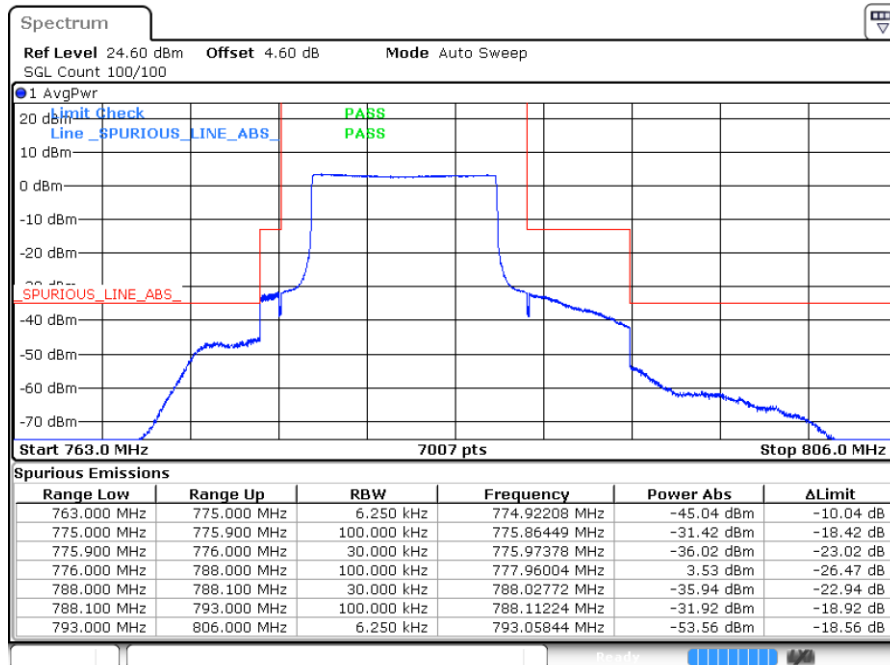
Date: 15.OCT.2024 04:11:02

middle Band Edge / 1 RB



Date: 15.OCT.2024 04:25:33

middle Band Edge / Full RB

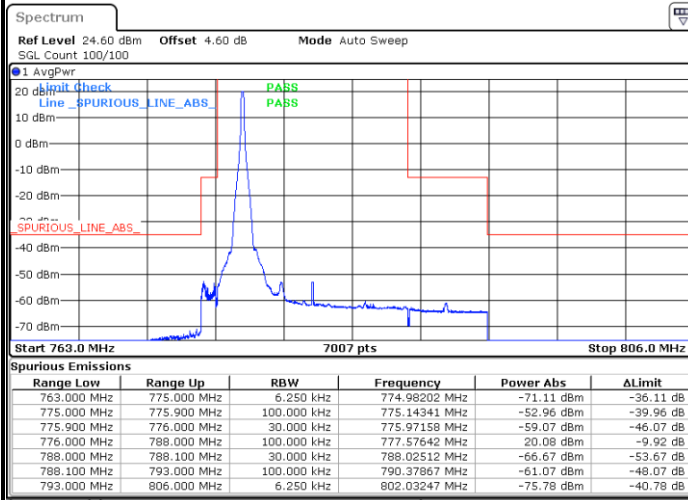


Date: 15.OCT.2024 04:18:17



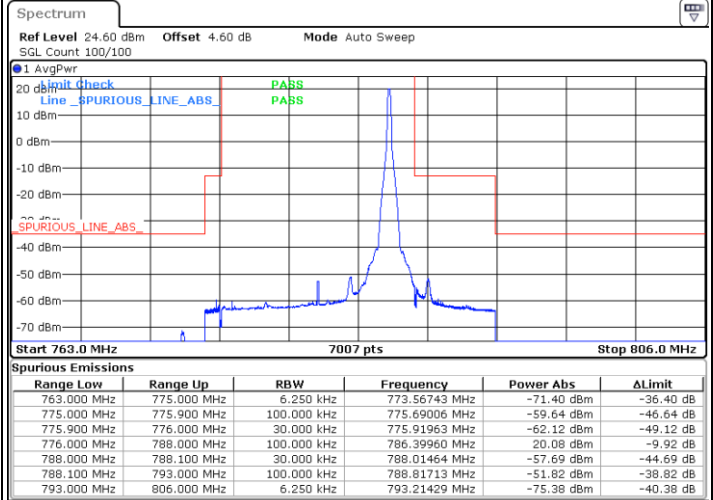
LTE Band 13 / 10MHz / 64QAM

middle Band Edge / 1 RB



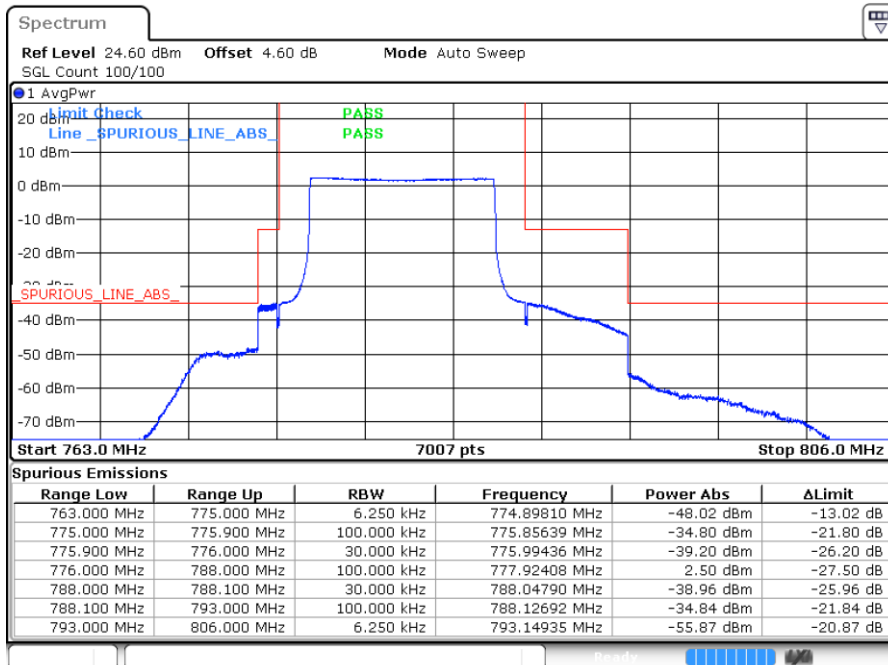
Date: 15.OCT.2024 04:12:51

middle Band Edge / 1 RB



Date: 15.OCT.2024 04:27:22

middle Band Edge / Full RB

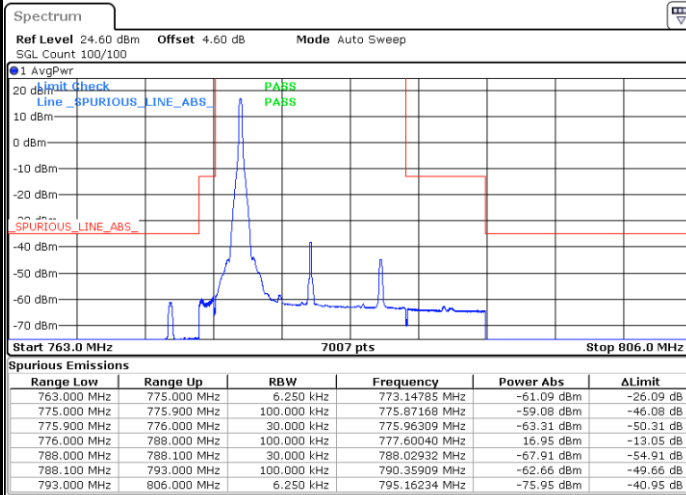


Date: 15.OCT.2024 04:20:06



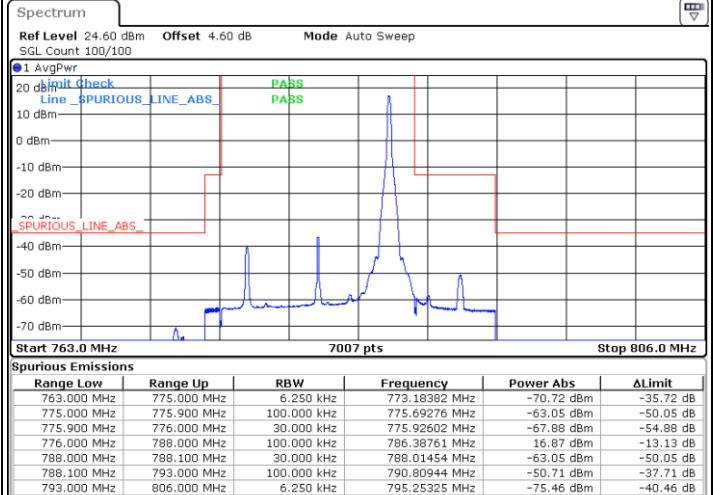
LTE Band 13 / 10MHz / 256QAM

middle Band Edge / 1 RB



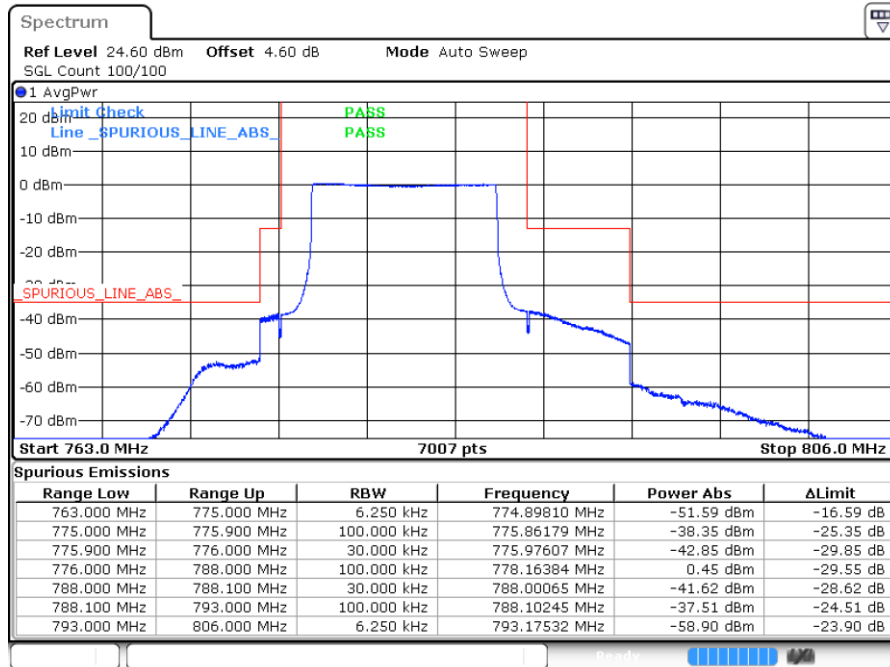
Date: 15.OCT.2024 04:14:40

middle Band Edge / 1 RB



Date: 15.OCT.2024 04:29:10

middle Band Edge / Full RB



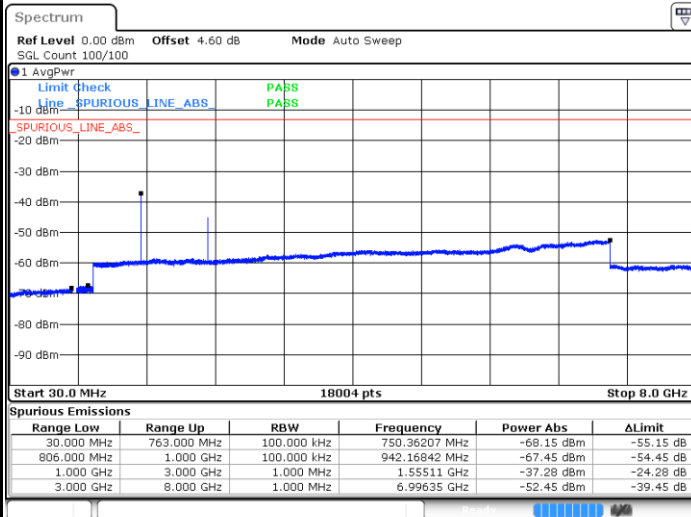
Date: 15.OCT.2024 04:21:55



Conducted Spurious Emission

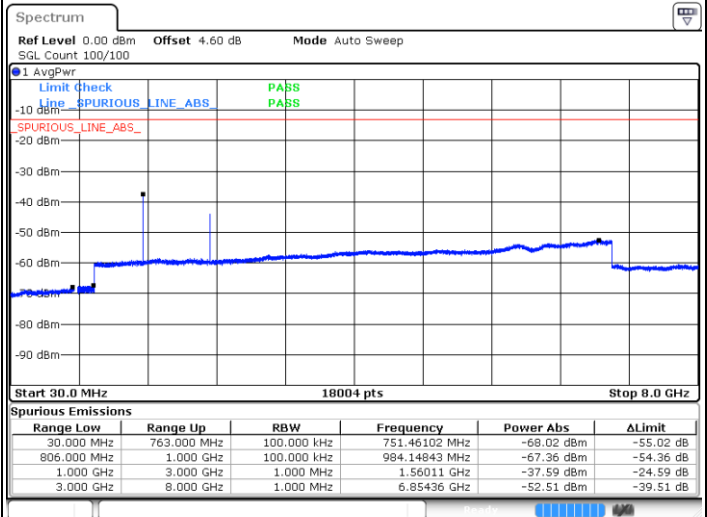
LTE Band 13 / 5MHz

Lowest Channel / QPSK



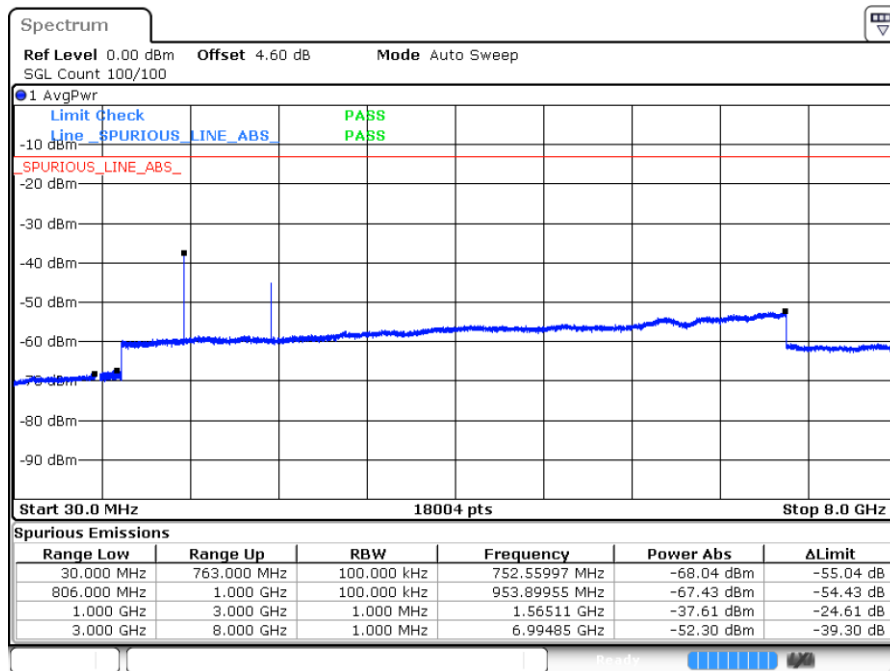
Date: 15.OCT.2024 03:30:35

Middle Channel / QPSK



Date: 15.OCT.2024 03:46:31

Highest Channel / QPSK

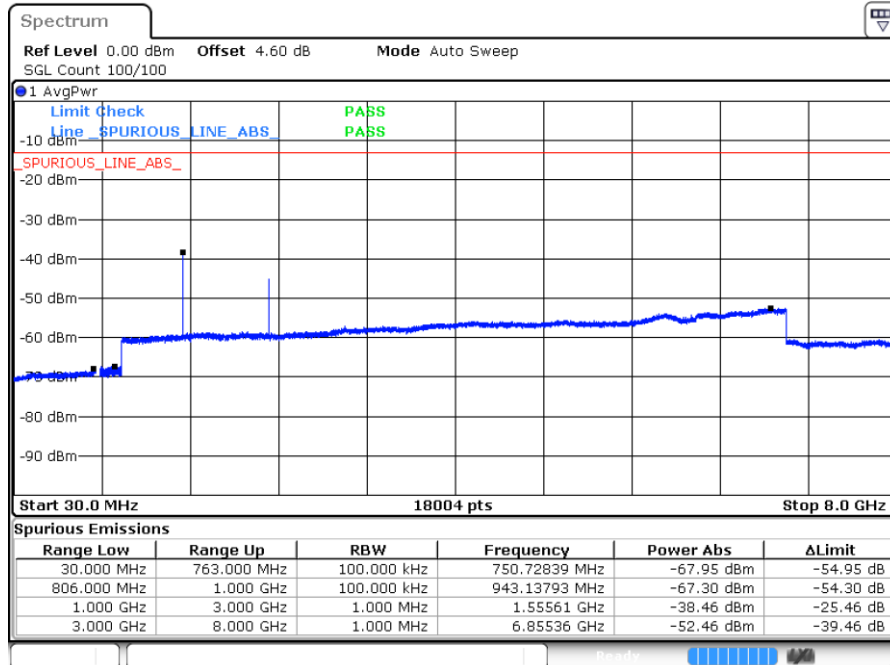


Date: 15.OCT.2024 03:47:50



LTE Band 13 / 10MHz

Middle Channel / QPSK



Date: 15 OCT 2024 04:07:25

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	0.0025	PASS
40	Normal Voltage	0.0046	
30	Normal Voltage	0.0053	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0016	
0	Normal Voltage	0.0029	
-10	Normal Voltage	0.0034	
-20	Normal Voltage	0.0012	
-30	Normal Voltage	0.0053	
20	Maximum Voltage	0.0014	
20	Normal Voltage	0.0009	
20	Battery End Point	0.0027	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.3 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 :	Levi Zhao	Temperature :	22~25°C
		Relative Humidity :	48~52%

RSE pretest all the supported Antennas, only the worst results are shown in the report.

LTE Band 12 / 10MHz / QPSK / ANT 0								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1408	-65.41	-13	-52.41	-72.38	1.58	10.70	H
	2112	-61.47	-13	-48.47	-69.72	2.102	12.50	H
	2808	-58.89	-13	-45.89	-67.78	2.856	13.90	H
	1408	-63.51	-13	-50.51	-70.48	1.58	10.70	V
	2112	-59.41	-13	-46.41	-67.66	2.10	12.50	V
	2808	-58.59	-13	-45.59	-67.48	2.86	13.90	V

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

LTE Band 13 / 5MHz / QPSK / ANT 0								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1560	-66.78	-13	-53.78	-69.41	1.09	5.87	H
	2336	-48.54	-13	-35.54	-50.94	1.37	5.92	H
	3120	-59.45	-13	-46.45	-63.34	1.64	7.68	H
	1560	-66.31	-13	-53.31	-68.94	1.09	5.87	V
	2336	-46.31	-13	-33.31	-48.71	1.37	5.92	V
	3120	-59.64	-13	-46.64	-63.53	1.64	7.68	V

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

LTE Band 13 / 10MHz / QPSK / ANT 0								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1552	-64.72	-13	-51.72	-67.35	1.09	5.87	H
	2328	-61.45	-13	-48.45	-63.85	1.37	5.92	H
	3112	-60.05	-13	-47.05	-63.94	1.64	7.68	H
	1552	-65.33	-13	-52.33	-67.96	1.09	5.87	V
	2328	-59.52	-13	-46.52	-61.92	1.37	5.92	V
	3112	-60.01	-13	-47.01	-63.90	1.64	7.68	V

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