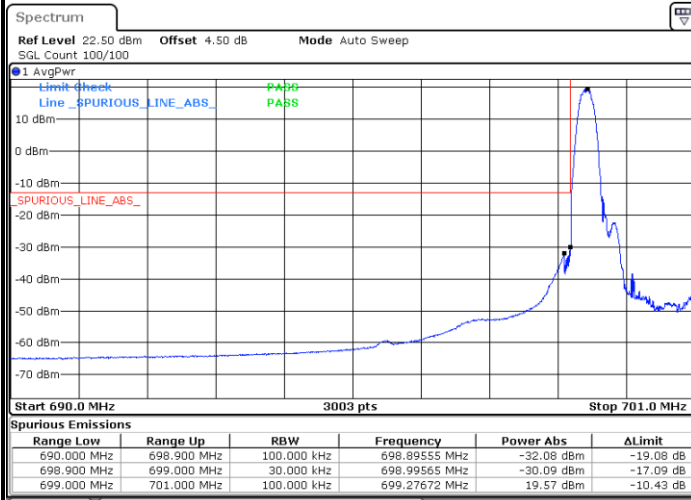


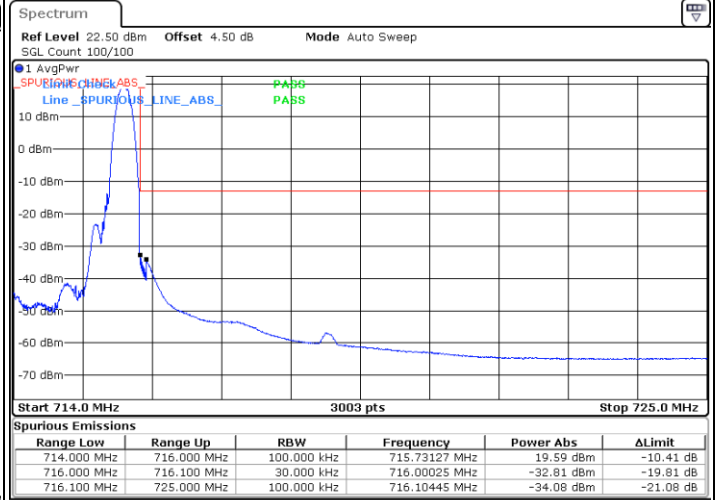


LTE Band 12 / 1.4MHz / 64QAM

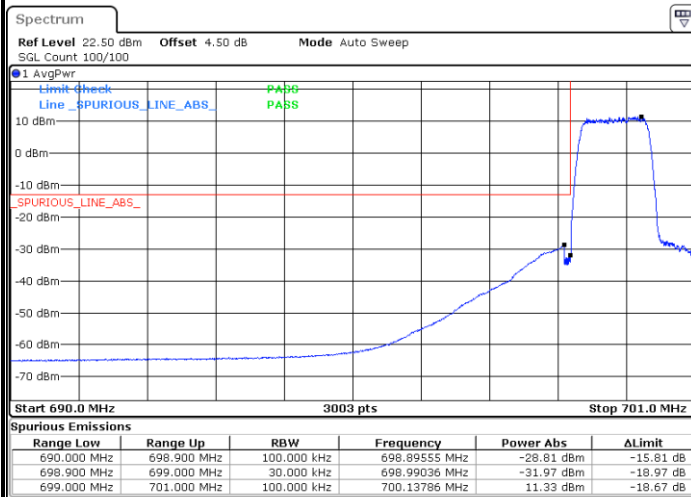
Lowest Band Edge / 1 RB



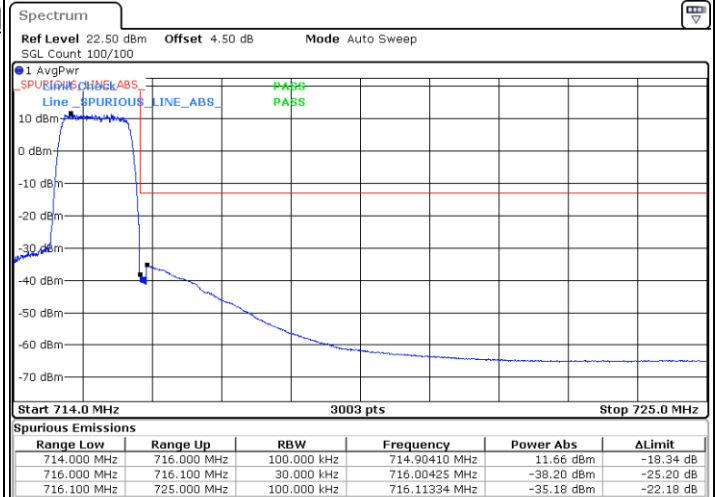
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB



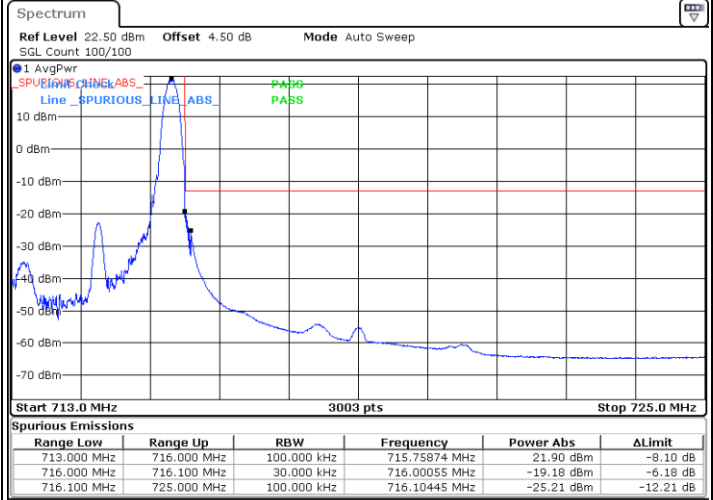


LTE Band 12 / 3MHz / QPSK

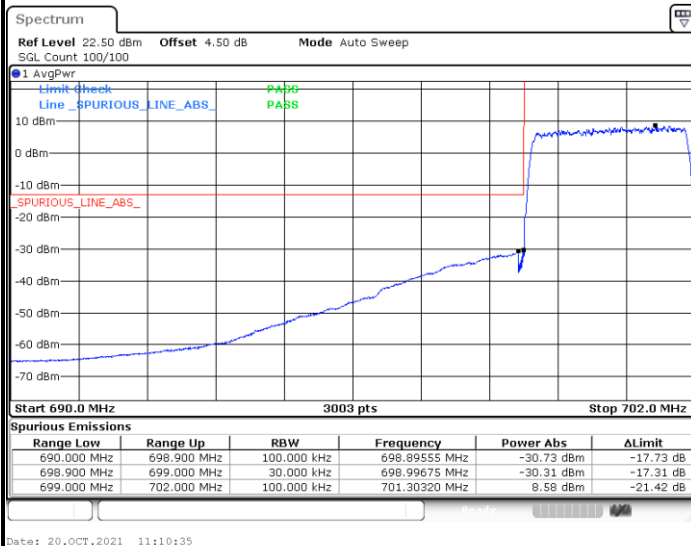
Lowest Band Edge / 1RB



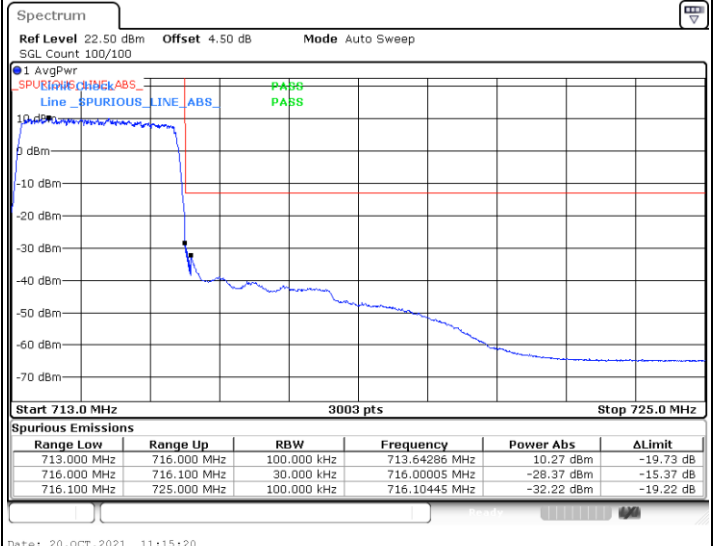
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB



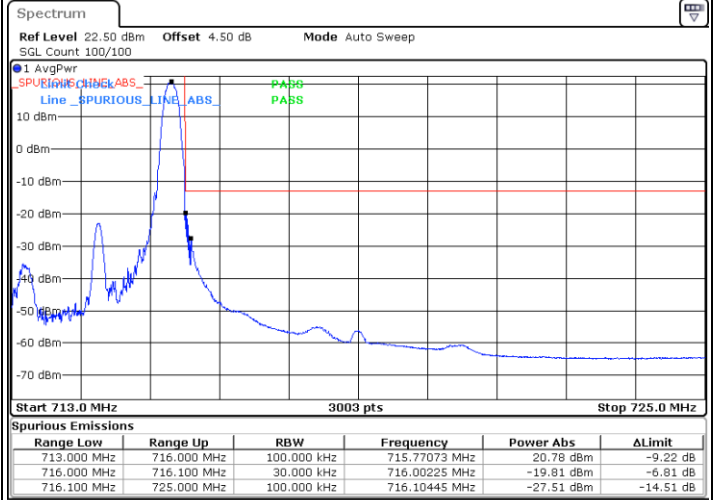


LTE Band 12 / 3MHz / 16QAM

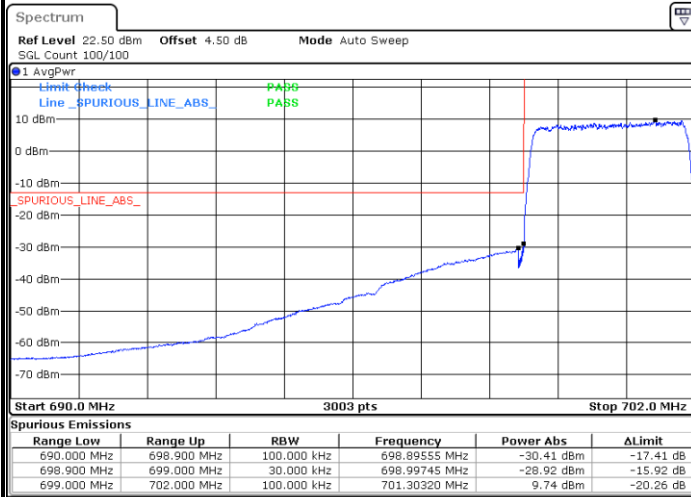
Lowest Band Edge / 1 RB



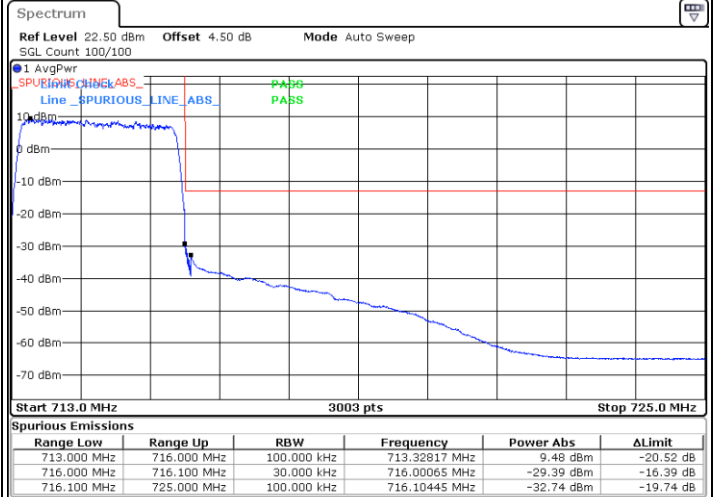
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



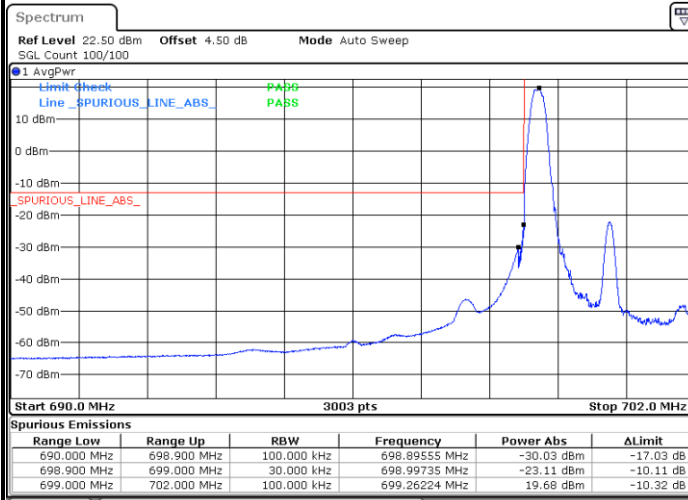
Highest Band Edge / Full RB



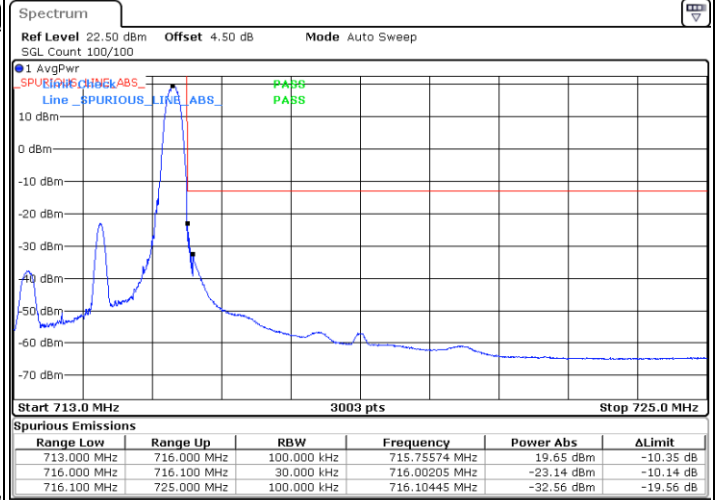


LTE Band 12 / 3MHz / 64QAM

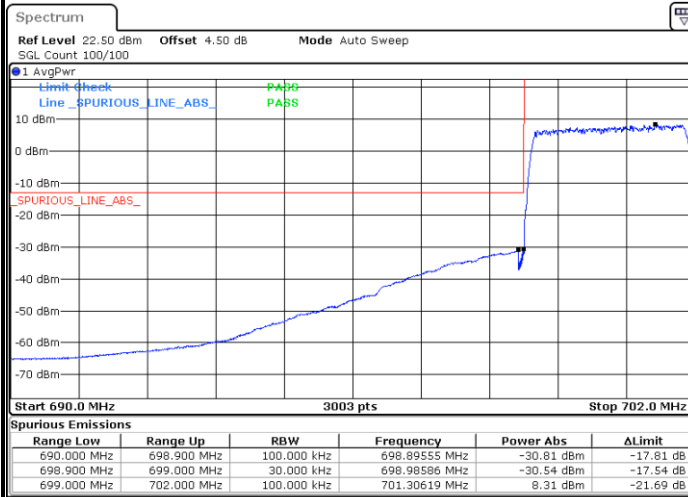
Lowest Band Edge / 1 RB



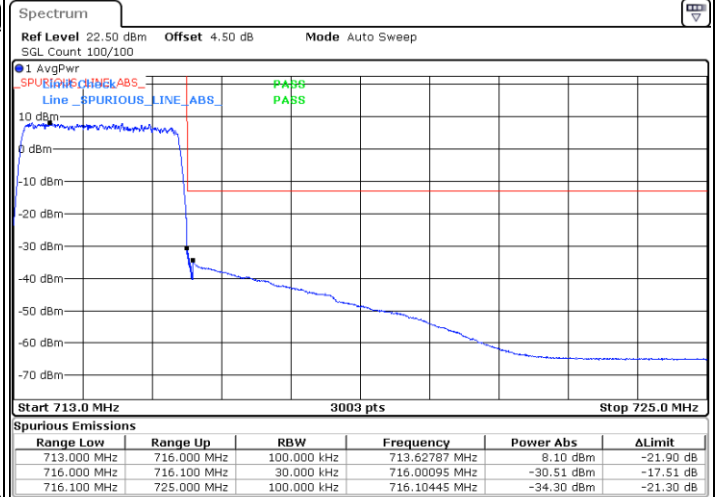
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



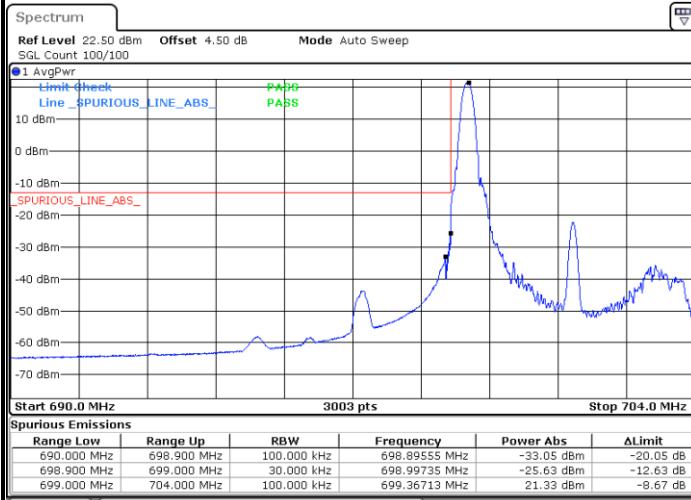
Highest Band Edge / Full RB



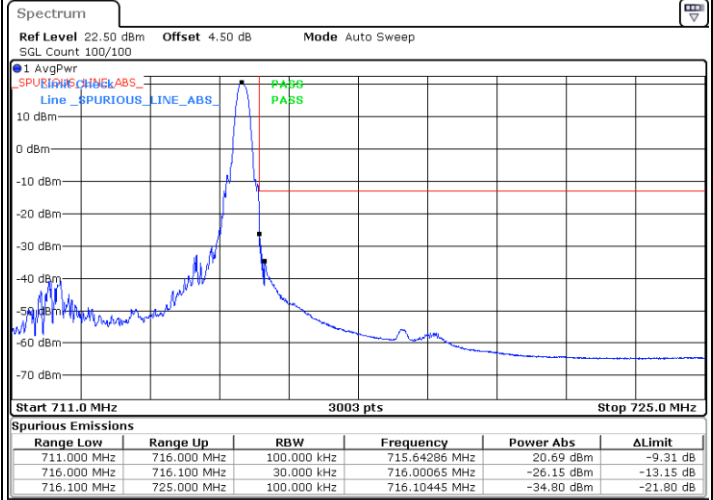


LTE Band 12 / 5MHz / QPSK

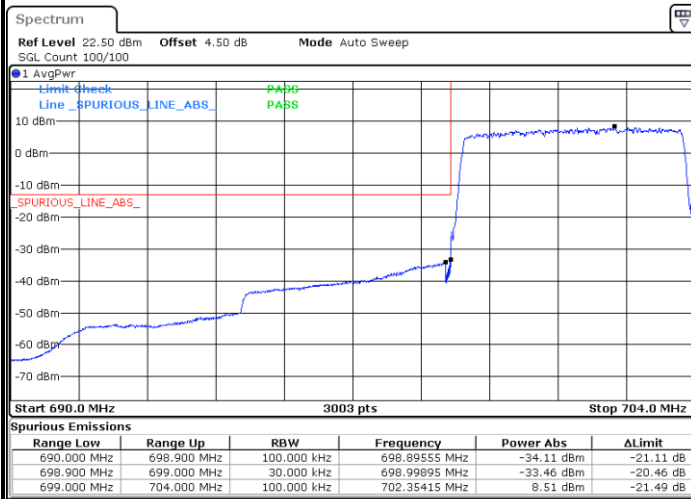
Lowest Band Edge / 1 RB



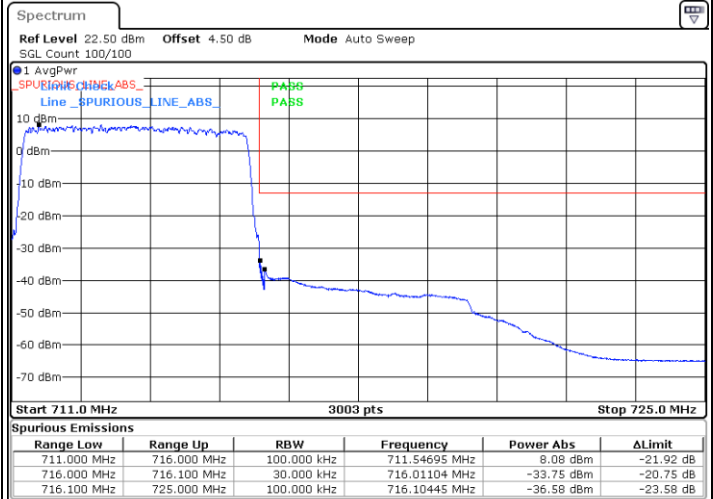
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



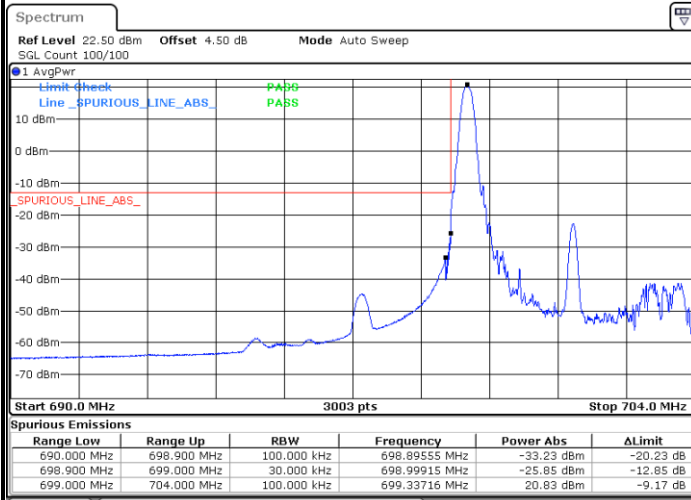
Highest Band Edge / Full RB



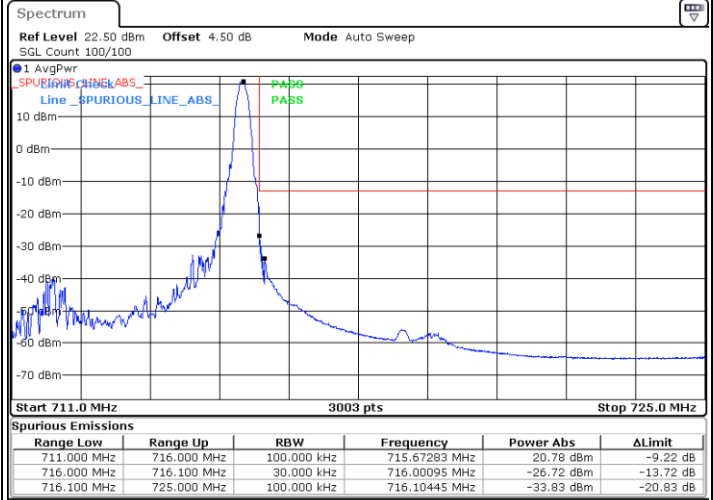


LTE Band 12 / 5MHz / 16QAM

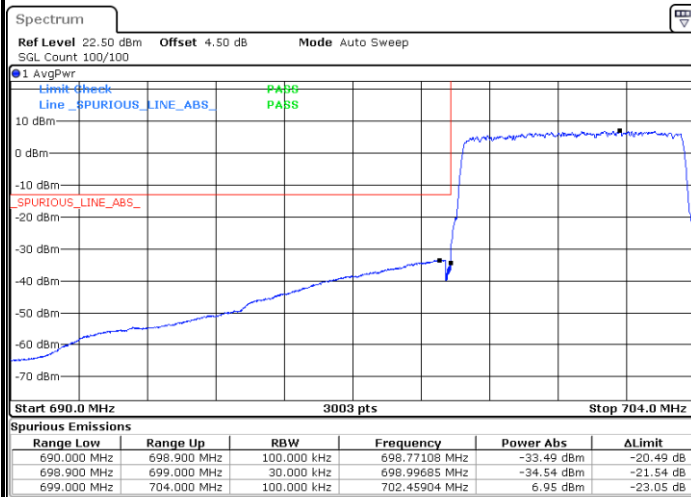
Lowest Band Edge / 1RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



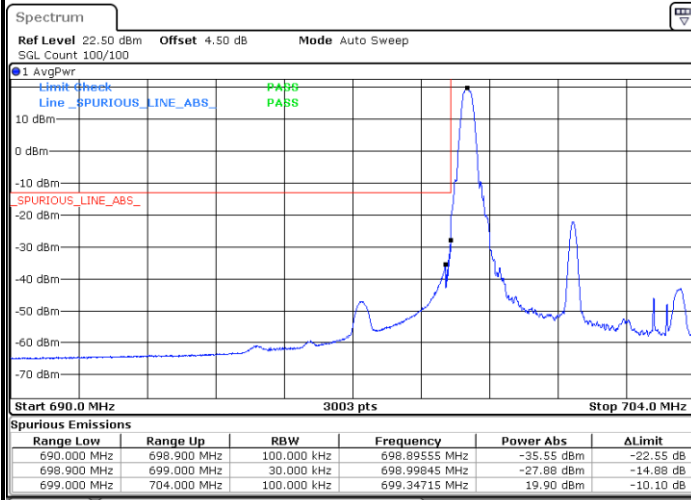
Highest Band Edge / Full RB



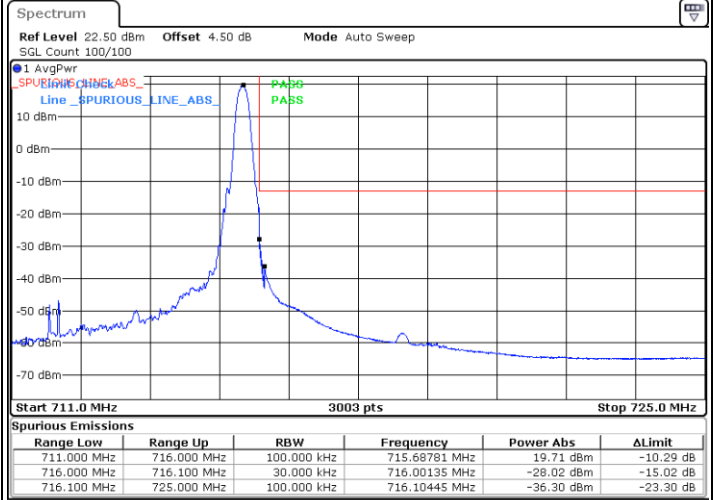


LTE Band 12 / 5MHz / 64QAM

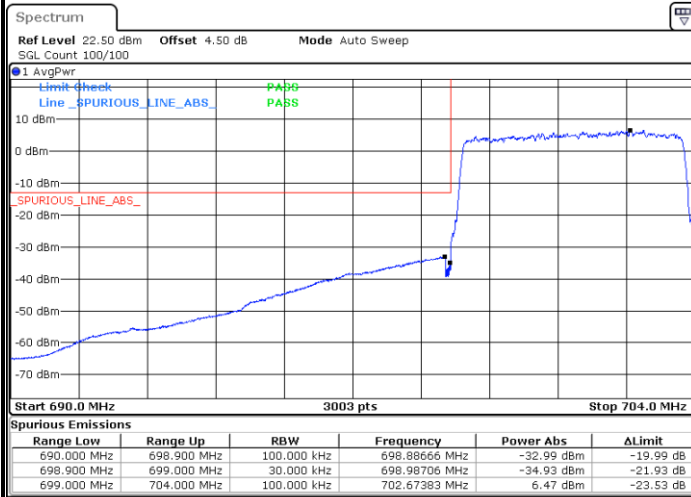
Lowest Band Edge / 1RB



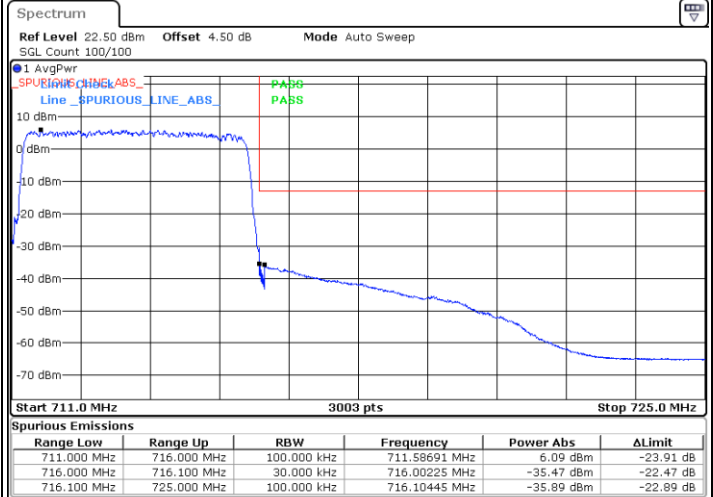
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



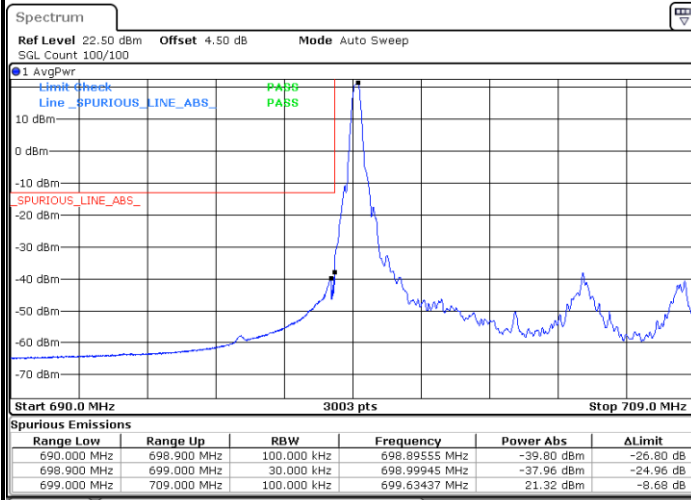
Highest Band Edge / Full RB



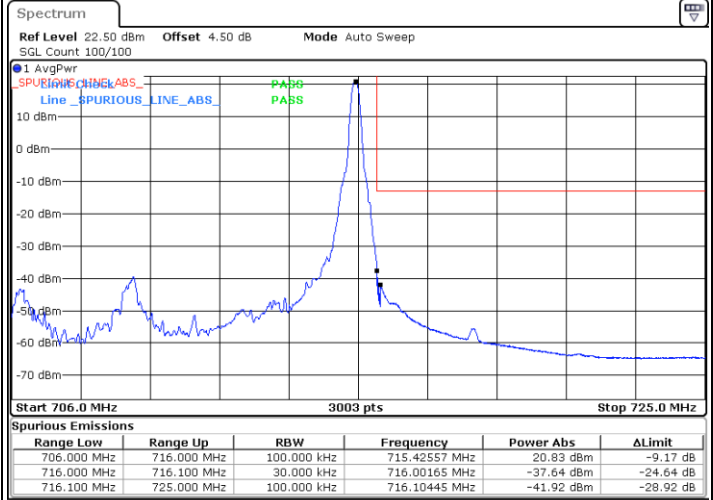


LTE Band 12 / 10MHz / QPSK

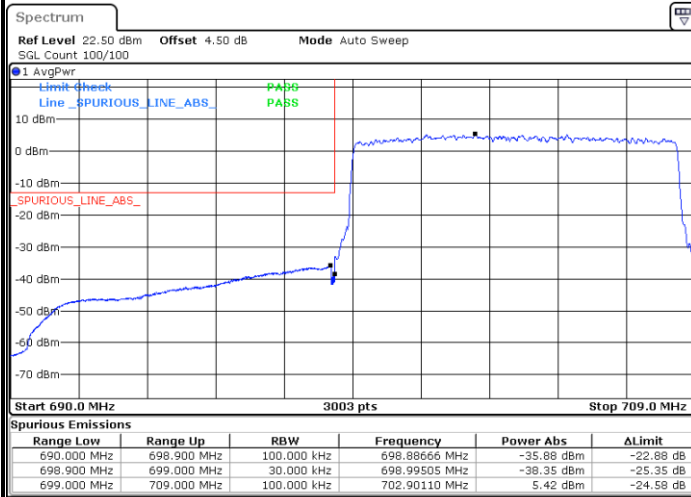
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



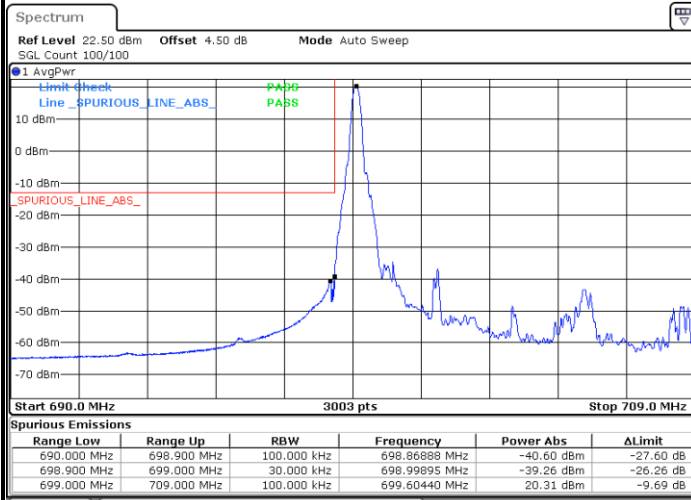
Highest Band Edge / Full RB



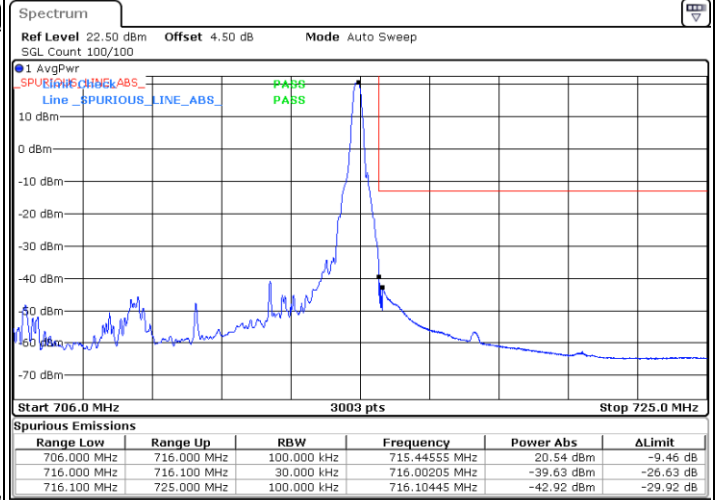


LTE Band 12 / 10MHz / 16QAM

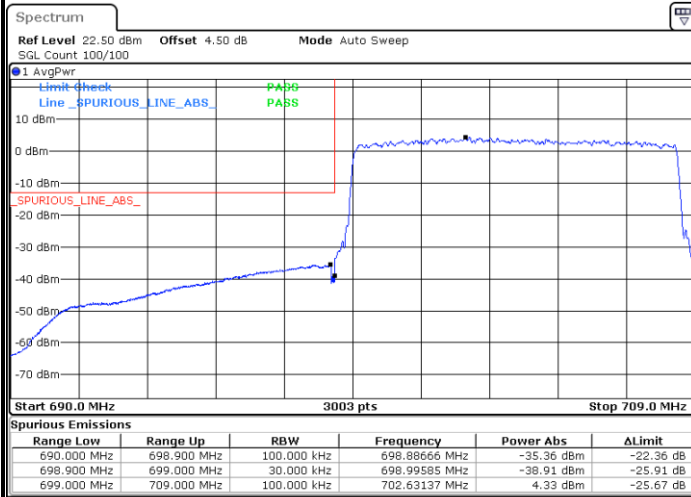
Lowest Band Edge / 1 RB



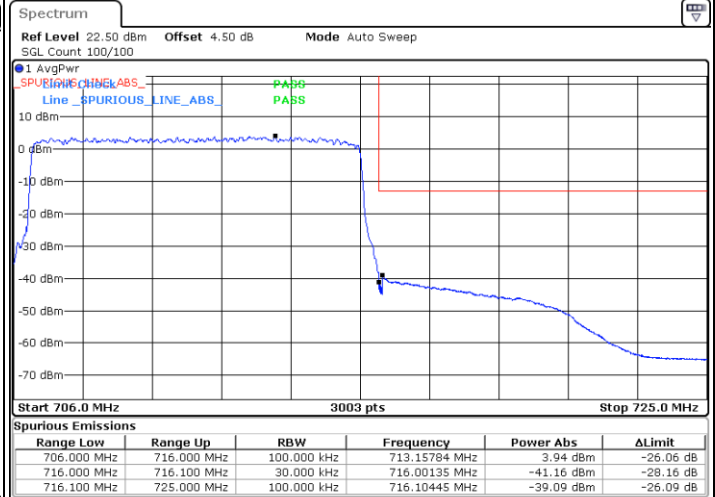
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



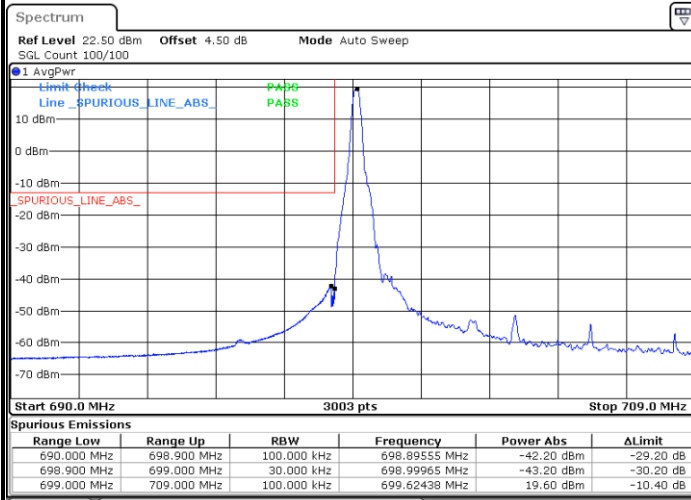
Highest Band Edge / Full RB



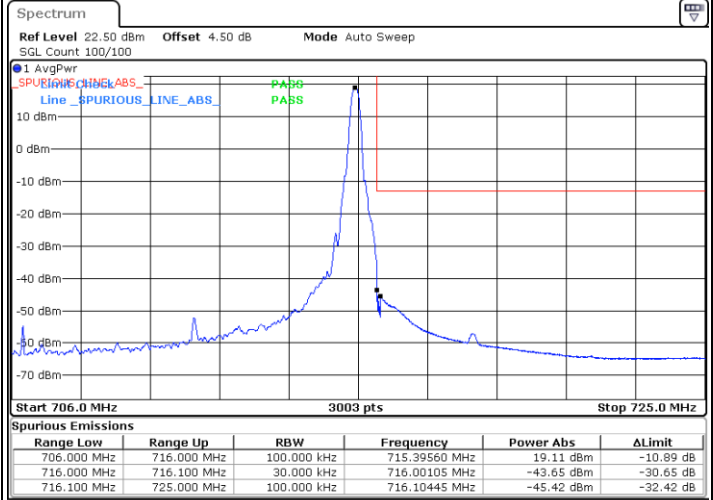


LTE Band 12 / 10MHz / 64QAM

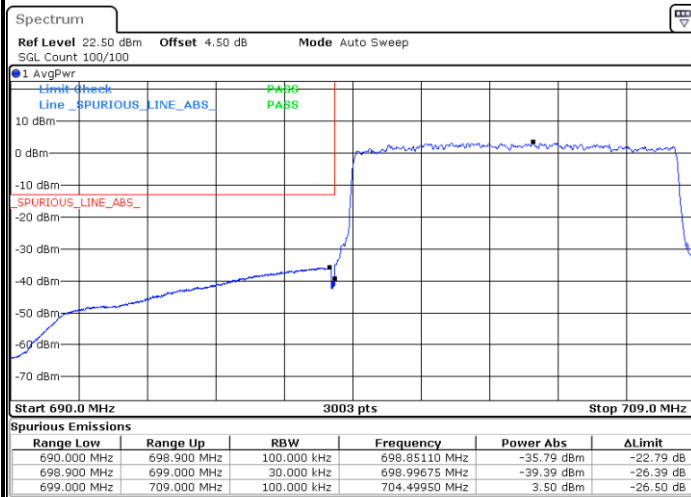
Lowest Band Edge / 1 RB



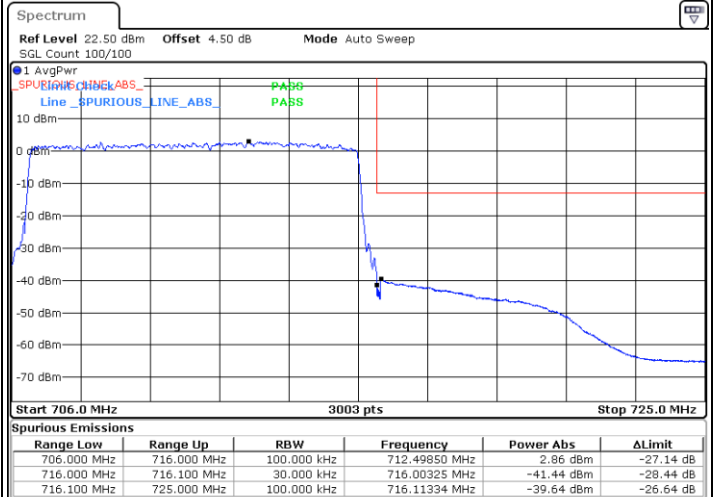
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

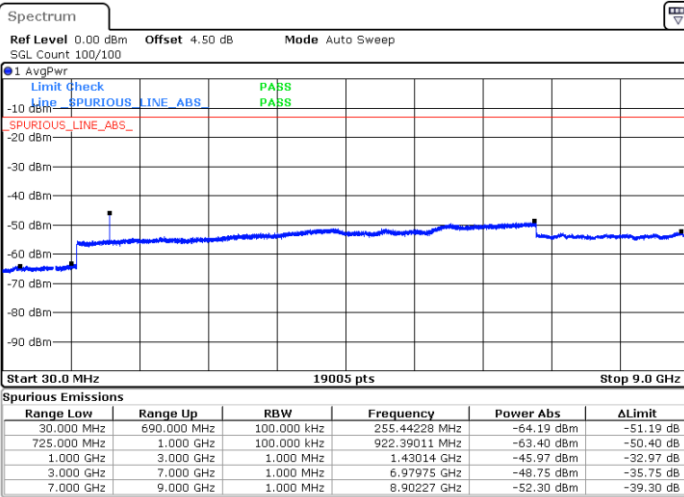




Conducted Spurious Emission

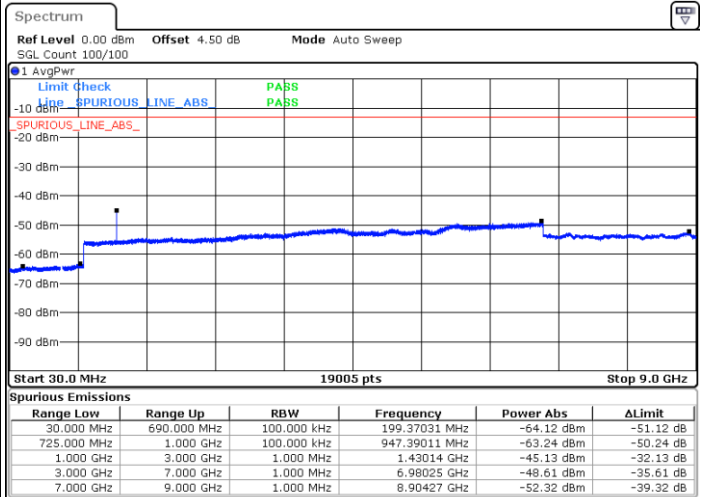
LTE Band 12 / 1.4MHz

Lowest Channel / QPSK



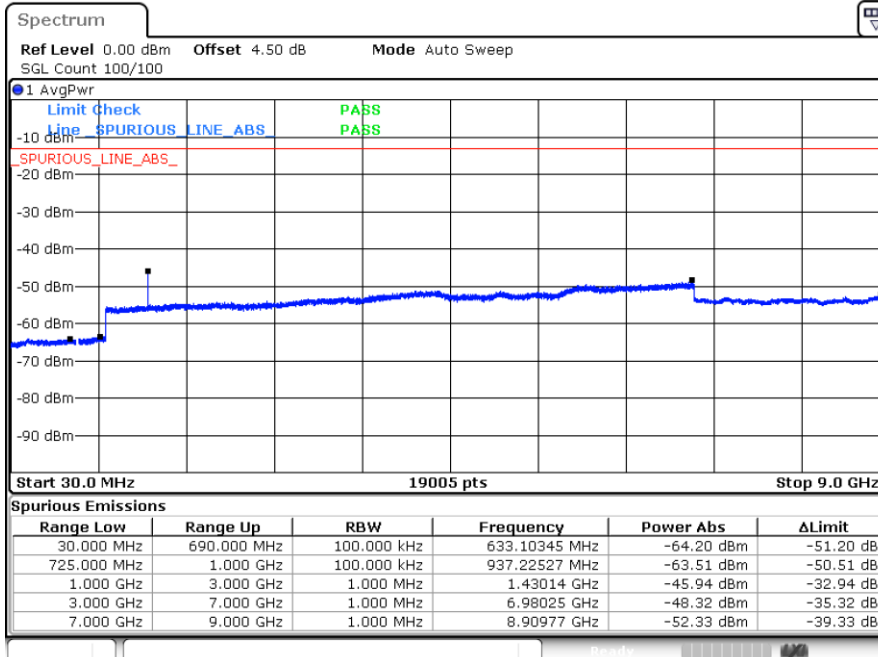
Date: 20.OCT.2021 10:37:53

Middle Channel / QPSK



Date: 20.OCT.2021 10:31:50

Highest Channel / QPSK

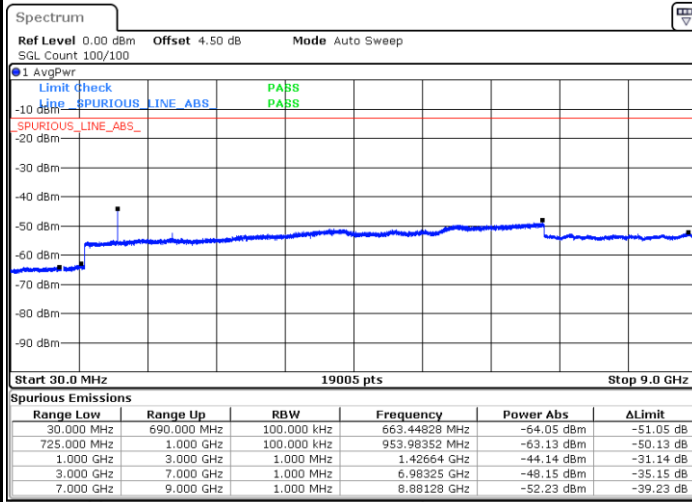


Date: 20.OCT.2021 10:29:18



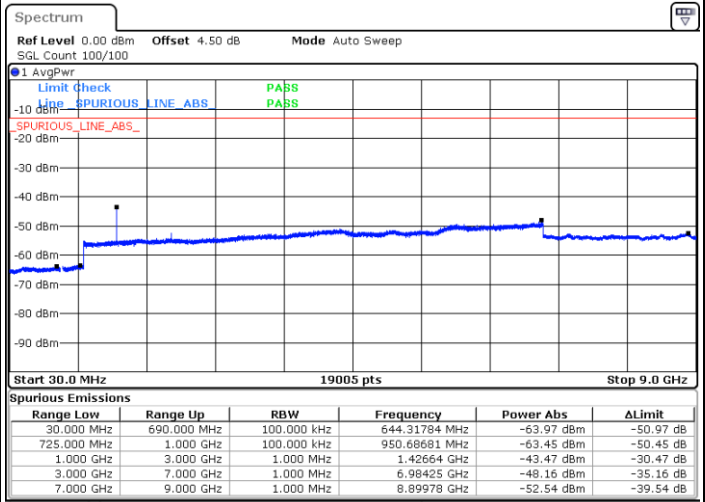
LTE Band 12 / 3MHz

Lowest Channel / QPSK



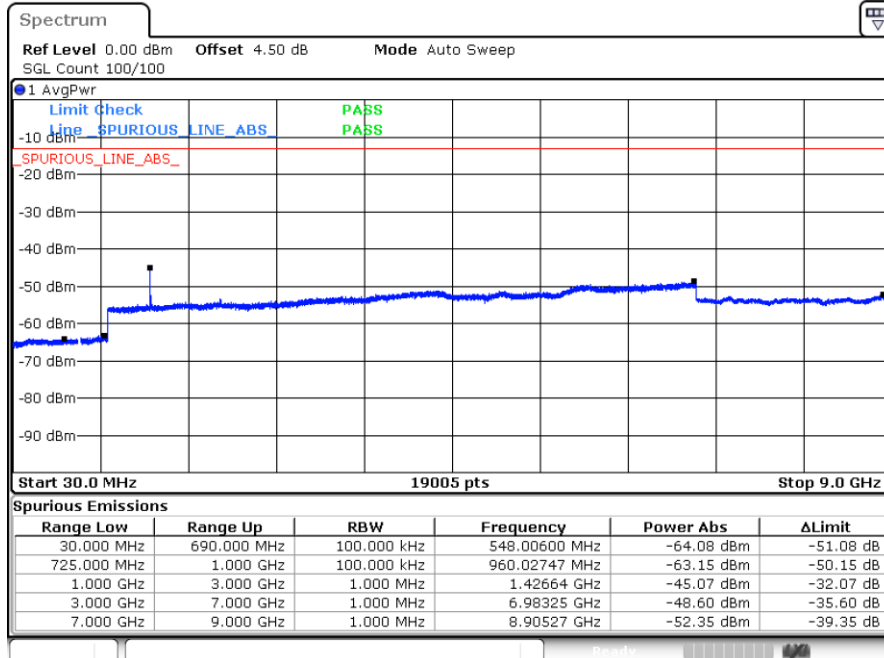
Date: 20.OCT.2021 11:21:07

Middle Channel / QPSK



Date: 20.OCT.2021 11:20:34

Highest Channel / QPSK

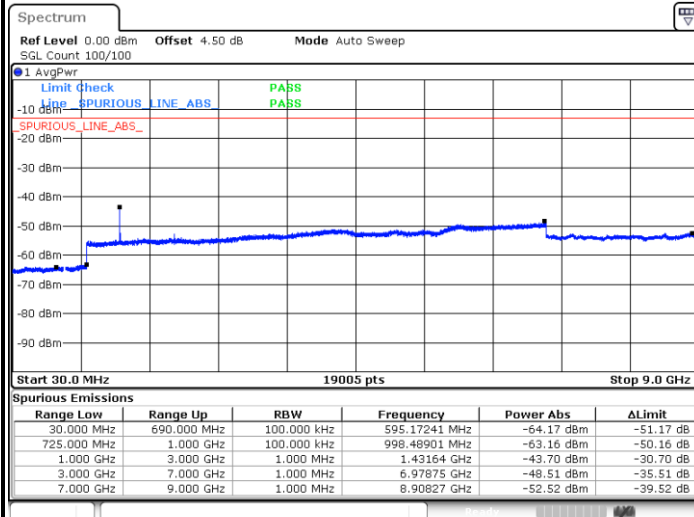


Date: 20.OCT.2021 11:20:00



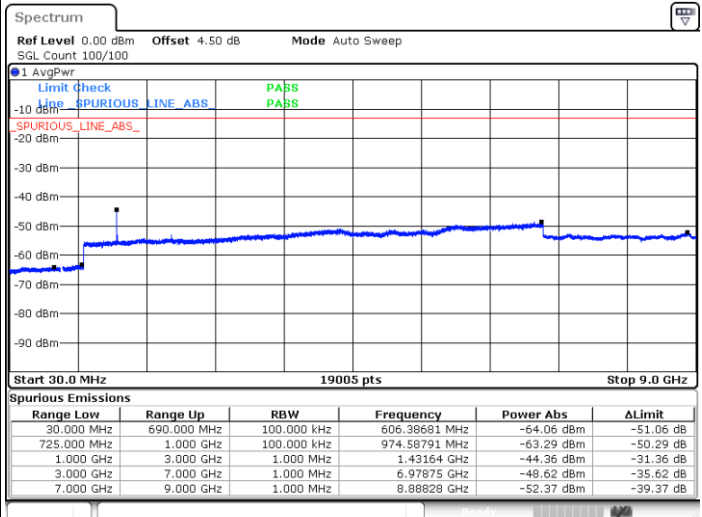
LTE Band 12 / 5MHz

Lowest Channel / QPSK



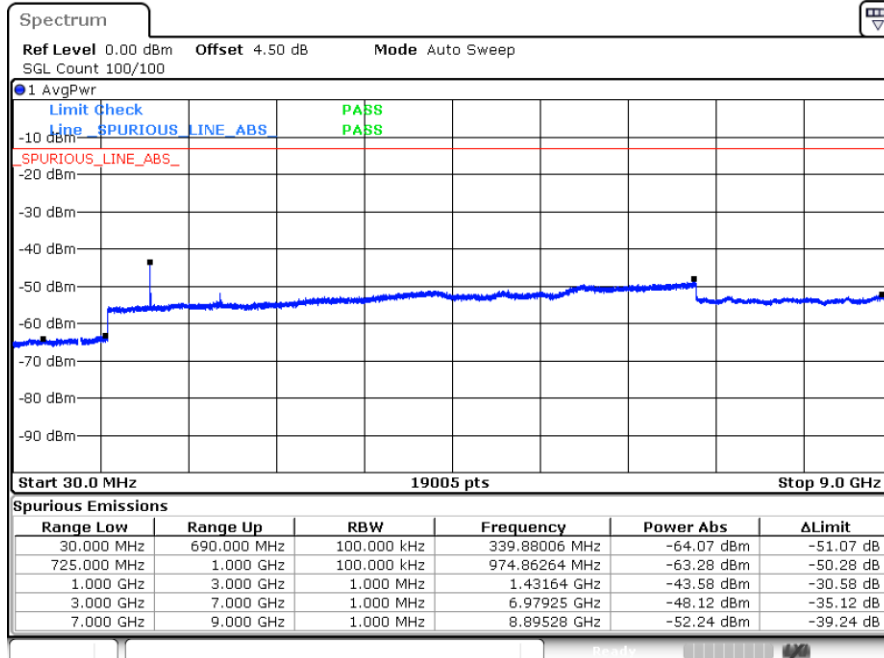
Date: 20.OCT.2021 11:32:50

Middle Channel / QPSK



Date: 20.OCT.2021 11:32:07

Highest Channel / QPSK



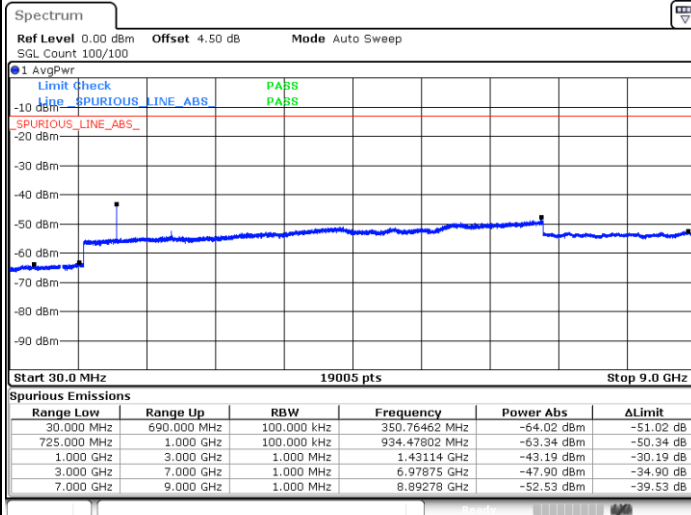
Date: 20.OCT.2021 11:31:35



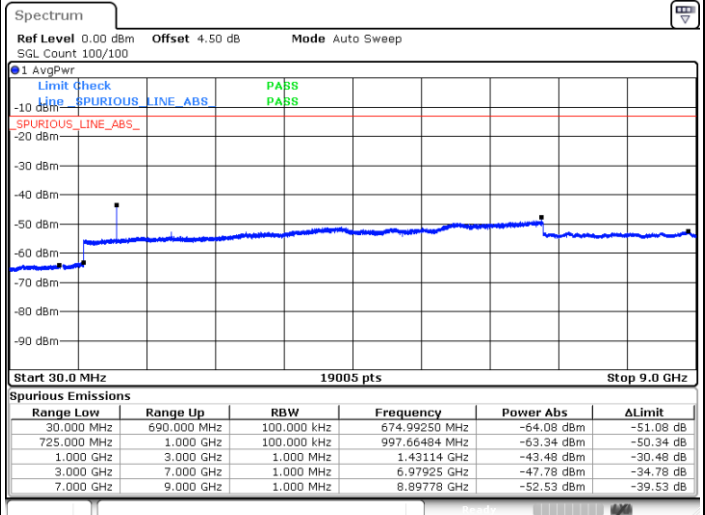
LTE Band 12 / 10MHz

Lowest Channel / QPSK

Middle Channel / QPSK

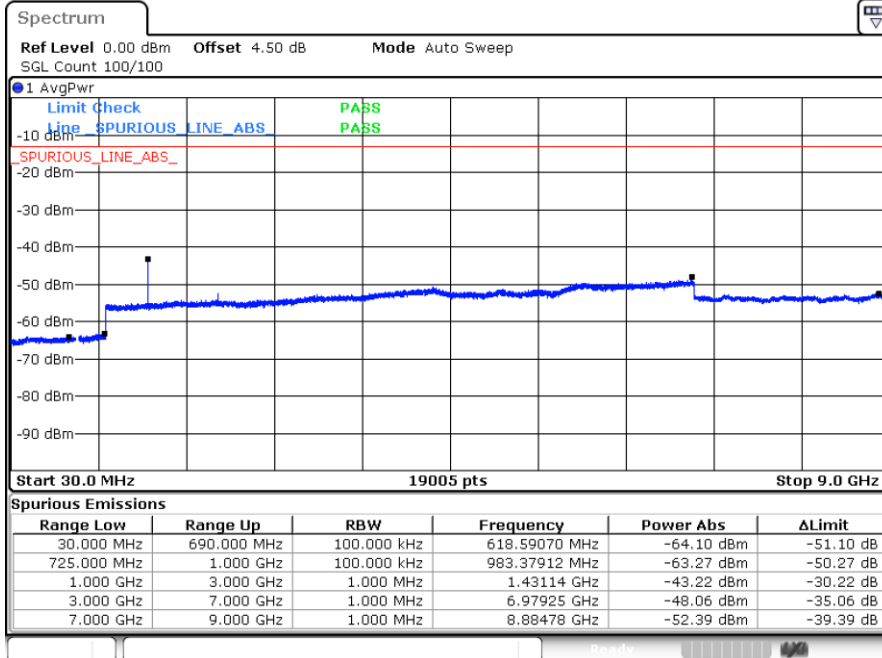


Date: 20.OCT.2021 11:44:11



Date: 20.OCT.2021 11:43:37

Highest Channel / QPSK



Date: 20.OCT.2021 11:43:03

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	0.0009	PASS
40	Normal Voltage	0.0018	
30	Normal Voltage	0.0085	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0099	
0	Normal Voltage	0.0000	
-10	Normal Voltage	0.0018	
-20	Normal Voltage	0.0071	
-30	Normal Voltage	0.0061	
20	Maximum Voltage	0.0017	
20	Normal Voltage	0.0013	
20	Battery End Point	0.0102	

Note:

1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.45 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

LTE Band 5

LTE Band 5 / 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)
Lowest	1648	-66.92	-13	-53.92	-73.89	1.58	10.70	H
	2473	-62.58	-13	-49.58	-70.83	2.102	12.50	H
	3300	-58.24	-13	-45.24	-67.13	2.856	13.90	H
	1649	-65.94	-13	-52.94	-72.91	1.58	10.70	V
	2472	-60.78	-13	-47.78	-69.03	2.10	12.50	V
	3300	-58.49	-13	-45.49	-67.38	2.86	13.90	V
Middle	1664	-66.02	-13	-53.02	-72.99	1.58	10.70	H
	2496	-57.80	-13	-44.80	-66.05	2.102	12.50	H
	3330	-62.47	-13	-49.47	-71.36	2.856	13.90	H
	1664	-65.49	-13	-52.49	-72.46	1.58	10.70	V
	2496	-60.45	-13	-47.45	-68.70	2.10	12.50	V
	3330	-61.90	-13	-48.90	-70.79	2.86	13.90	V
Highest	1680	-67.21	-13	-54.21	-74.18	1.58	10.70	H
	2518	-61.66	-13	-48.66	-69.91	2.102	12.50	H
	3360	-59.01	-13	-46.01	-67.90	2.856	13.90	H
	1679	-66.17	-13	-53.17	-73.14	1.58	10.70	V
	2518	-60.91	-13	-47.91	-69.16	2.10	12.50	V
	3360	-58.83	-13	-45.83	-67.72	2.86	13.90	V

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

**LTE Band 12**

LTE Band 12 / 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)
Lowest	1399	-69.68	-13	-56.68	-76.65	1.58	10.70	H
	2098	-63.61	-13	-50.61	-71.86	2.102	12.50	H
	2798	-61.11	-13	-48.11	-70.00	2.856	13.90	H
	1400	-69.07	-13	-56.07	-76.04	1.58	10.70	V
	2098	-62.78	-13	-49.78	-71.03	2.10	12.50	V
	2798	-60.84	-13	-47.84	-69.73	2.86	13.90	V
Middle	1406	-68.86	-13	-55.86	-75.83	1.58	10.70	H
	2110	-62.94	-13	-49.94	-71.19	2.102	12.50	H
	2812	-61.30	-13	-48.30	-70.19	2.856	13.90	H
	1406	-68.46	-13	-55.46	-75.43	1.58	10.70	V
	2110	-61.97	-13	-48.97	-70.22	2.10	12.50	V
	2812	-60.94	-13	-47.94	-69.83	2.86	13.90	V
Highest	1412	-69.61	-13	-56.61	-76.58	1.58	10.70	H
	2119	-63.92	-13	-50.92	-72.17	2.102	12.50	H
	2826	-61.63	-13	-48.63	-70.52	2.856	13.90	H
	1413	-69.14	-13	-56.14	-76.11	1.58	10.70	V
	2119	-62.81	-13	-49.81	-71.06	2.10	12.50	V
	2826	-61.19	-13	-48.19	-70.08	2.86	13.90	V

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

————THE END————