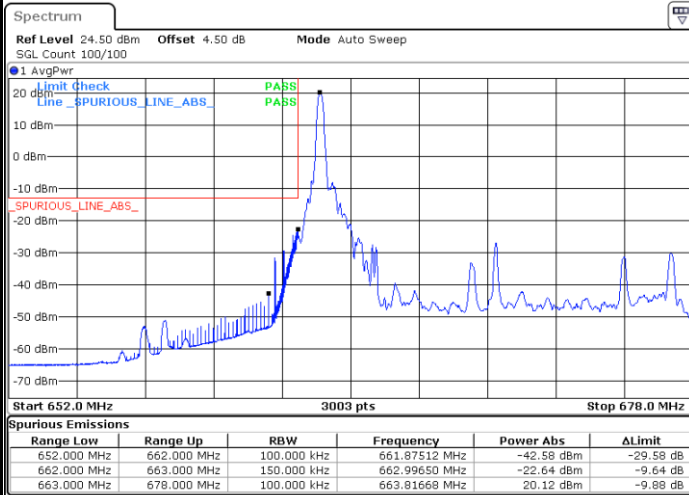




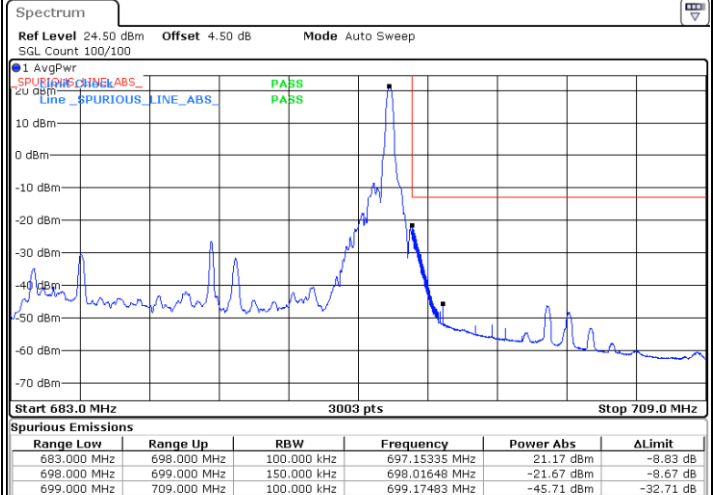
LTE Band 71 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



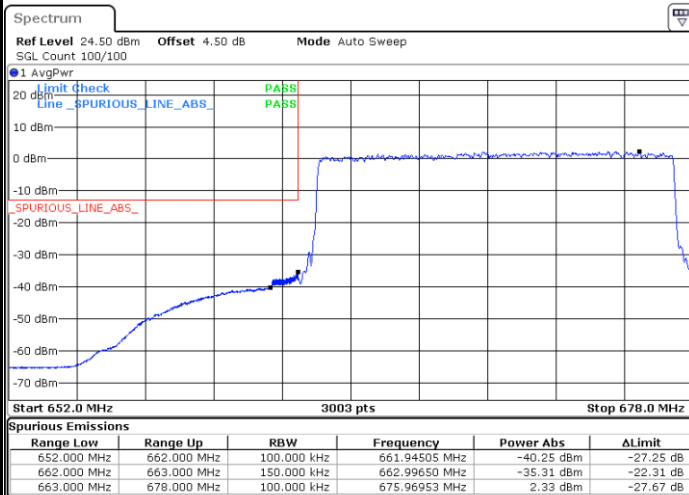
Date: 13.NOV.2021 17:16:50

Highest Band Edge / 1 RB



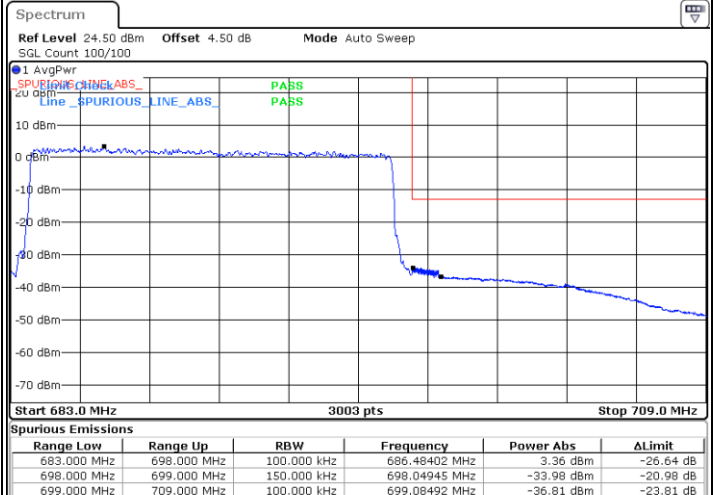
Date: 13.NOV.2021 17:26:18

Lowest Band Edge / Full RB



Date: 13.NOV.2021 17:21:42

Highest Band Edge / Full RB

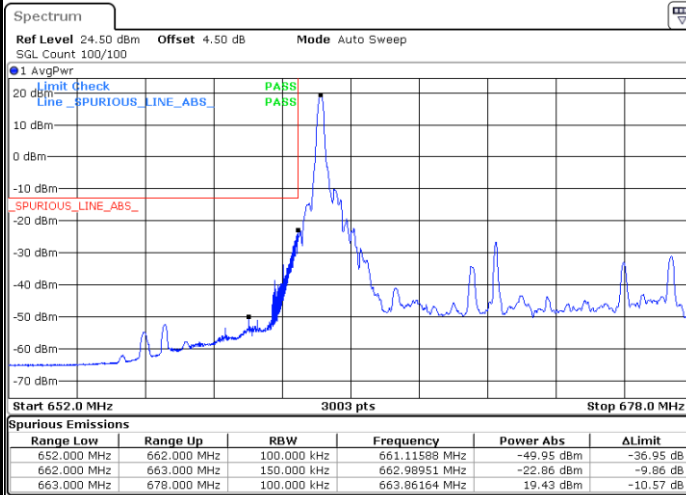


Date: 13.NOV.2021 17:30:09

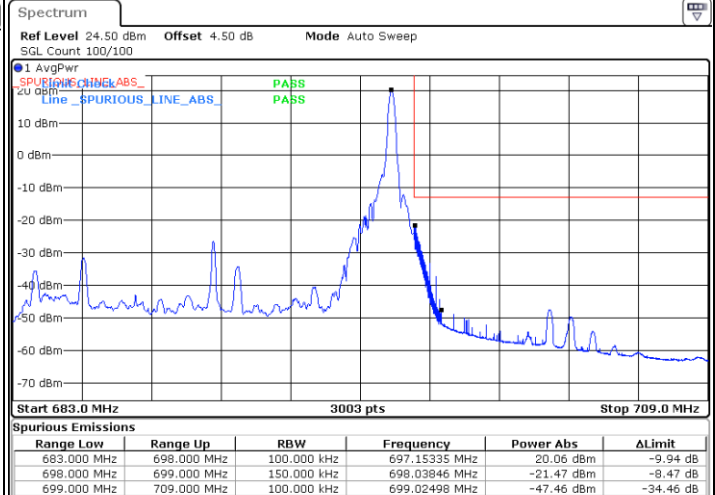


LTE Band 71 / 15MHz / 64QAM

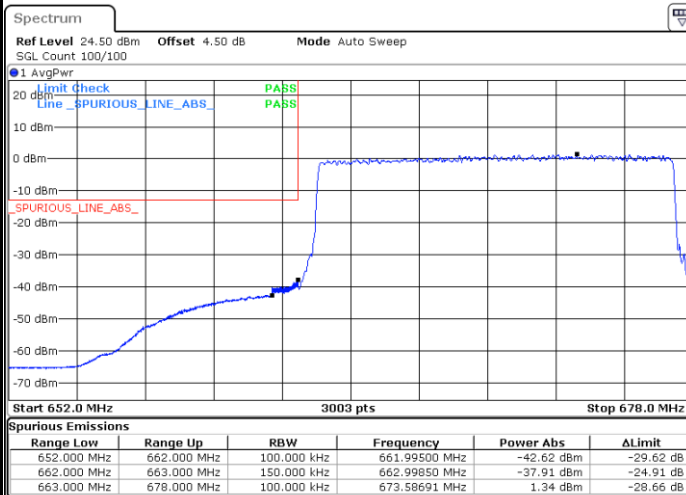
Lowest Band Edge / 1 RB



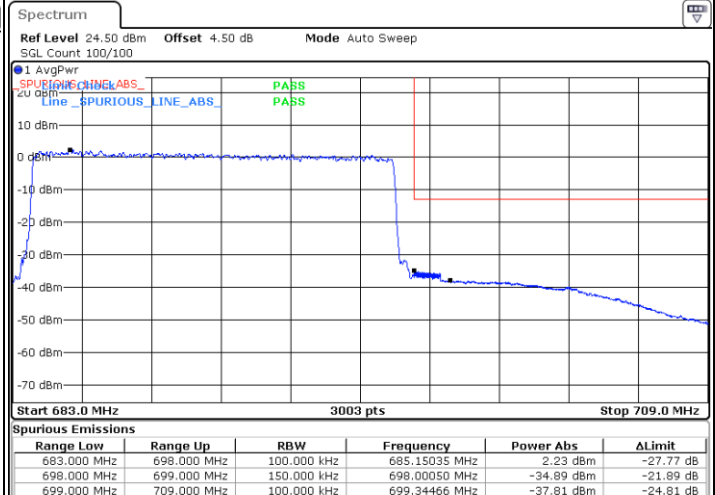
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



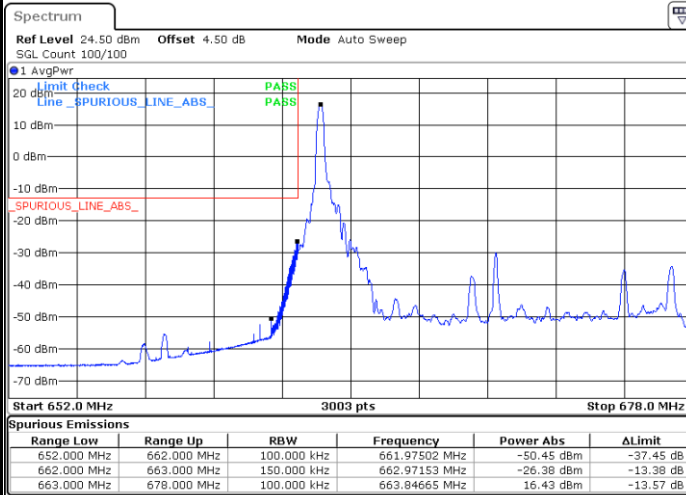
Highest Band Edge / Full RB



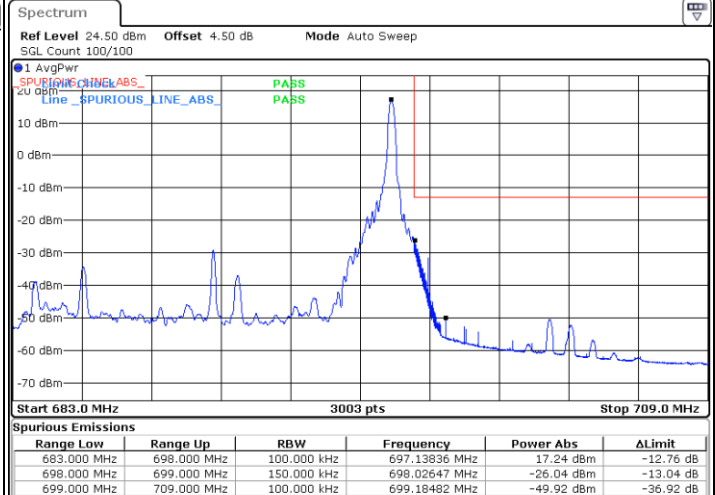


LTE Band 71 / 15MHz / 256QAM

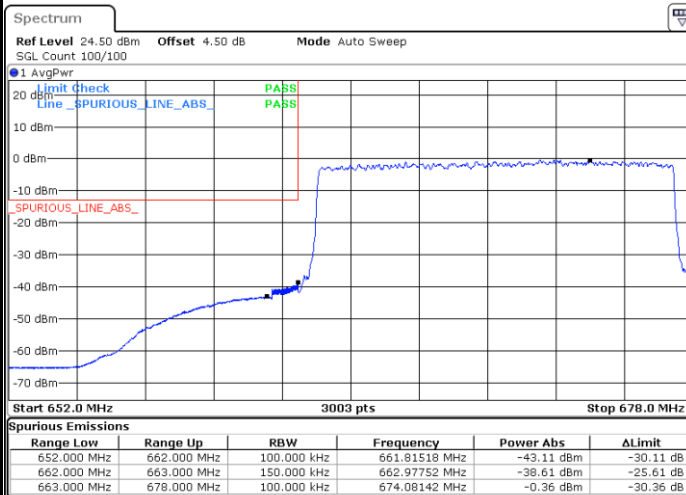
Lowest Band Edge / 1 RB



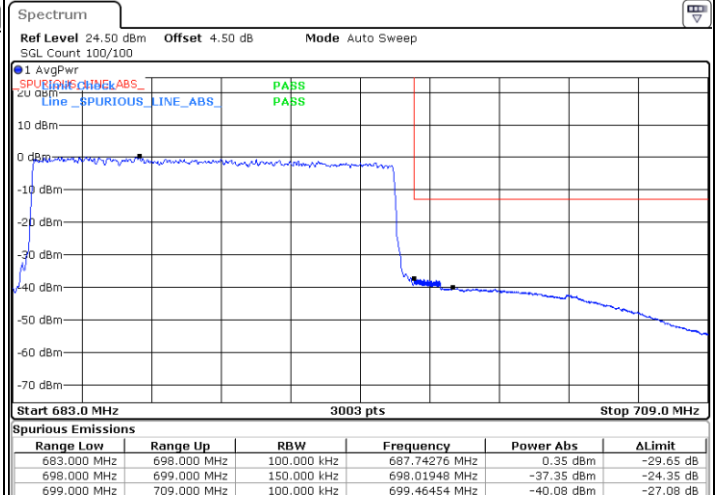
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



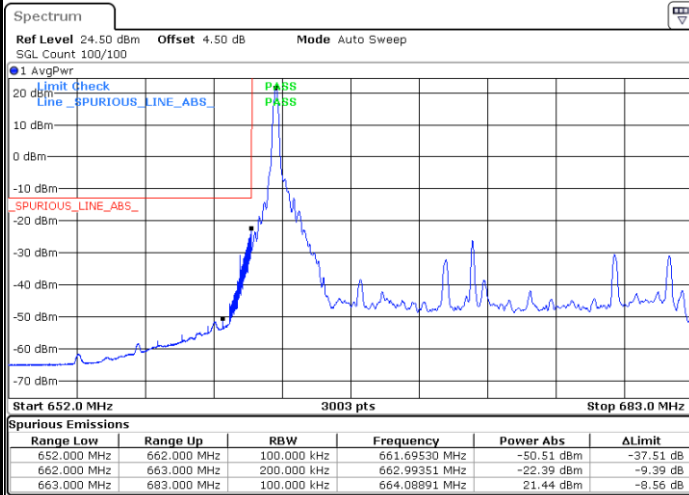
Highest Band Edge / Full RB



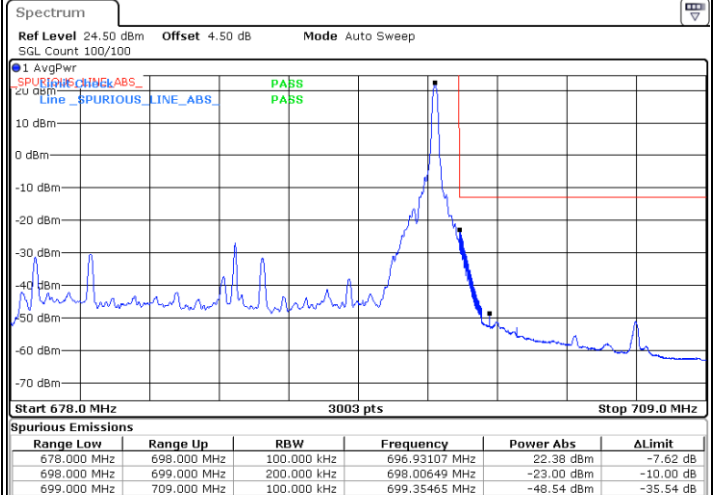


LTE Band 71 / 20MHz / QPSK

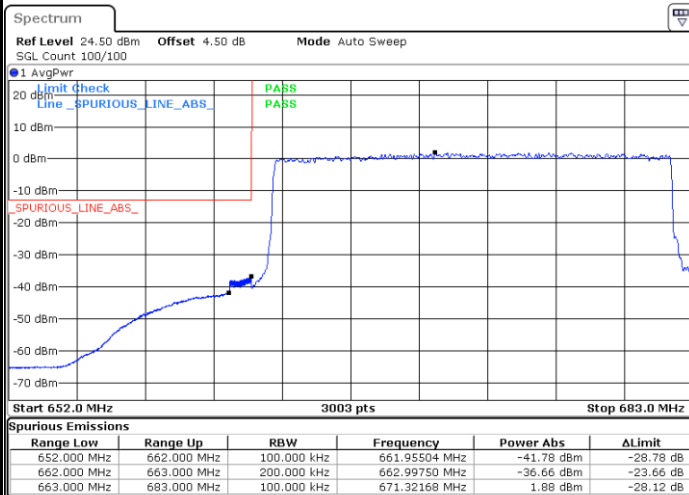
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



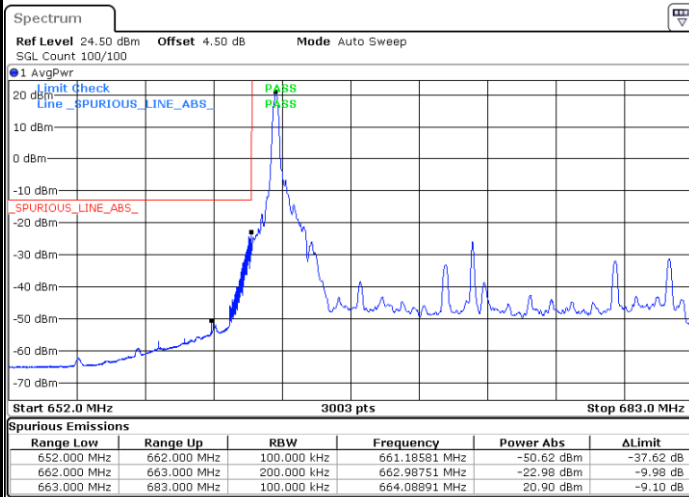
Highest Band Edge / Full RB



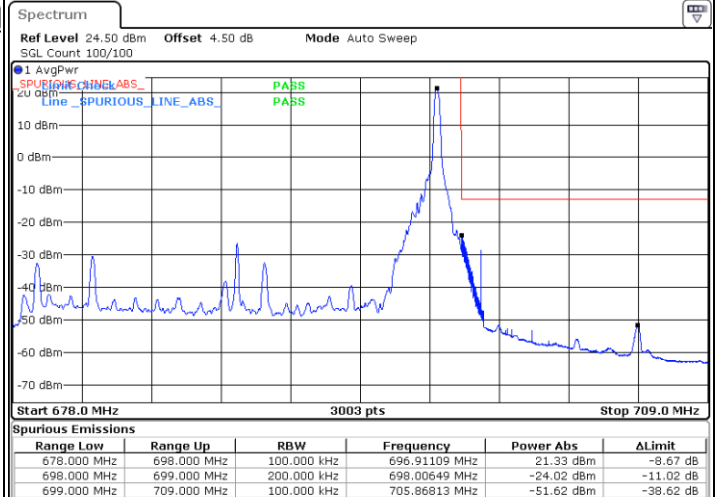


LTE Band 71 / 20MHz / 16QAM

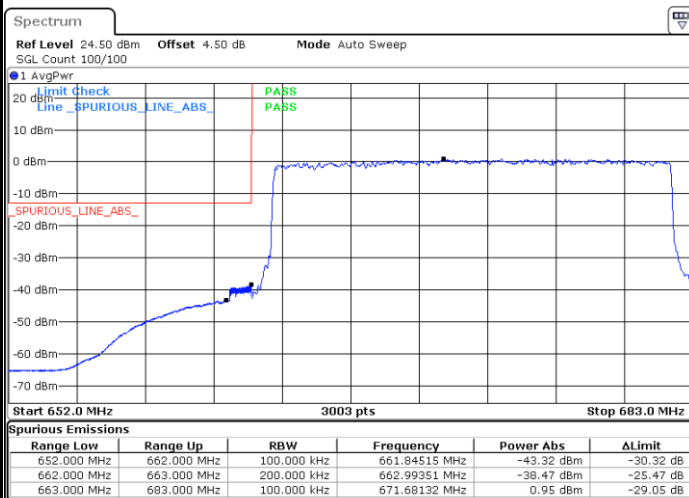
Lowest Band Edge / 1 RB



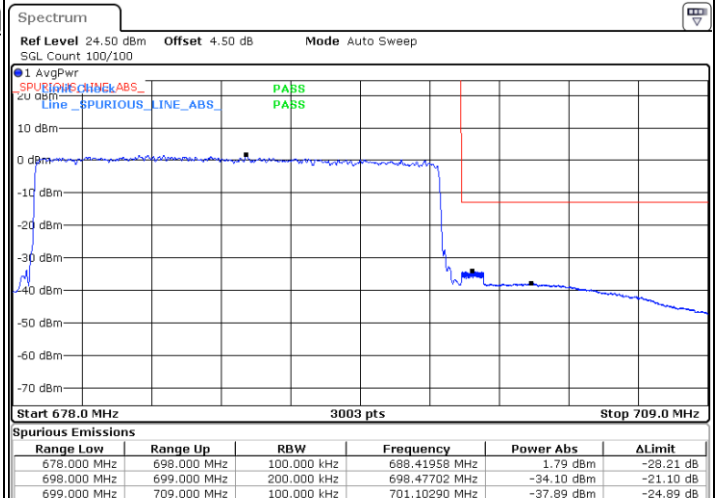
Highest Band Edge / 1RB



Lowest Band Edge / Full RB



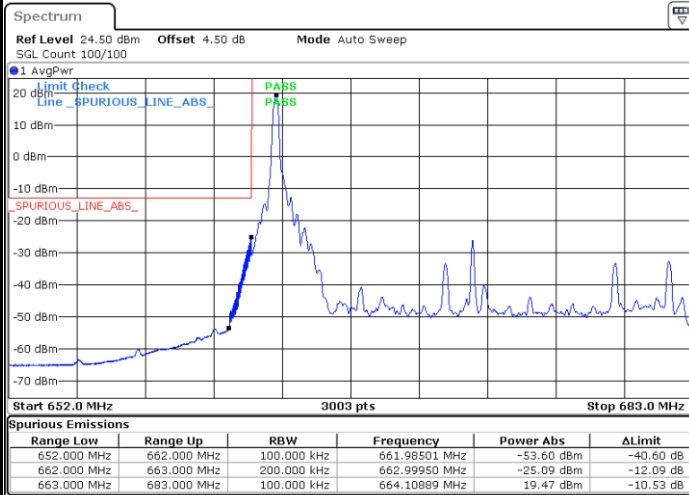
Highest Band Edge / Full RB



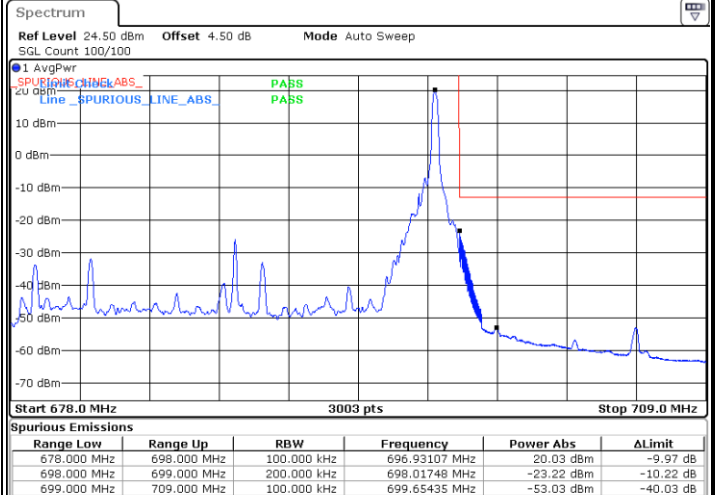


LTE Band 71 / 20MHz / 64QAM

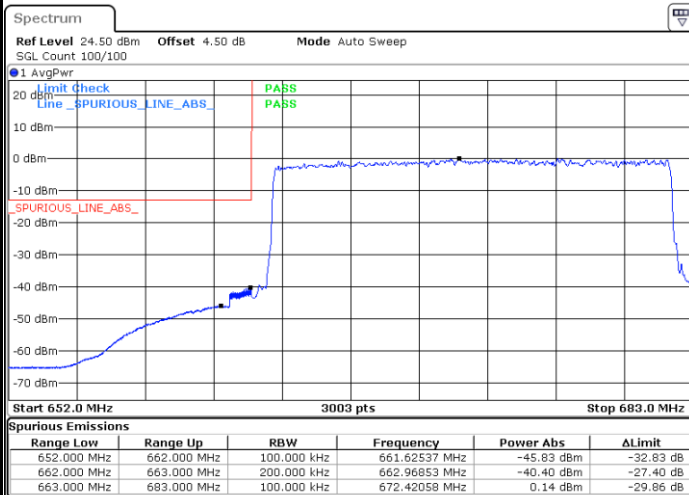
Lowest Band Edge / 1 RB



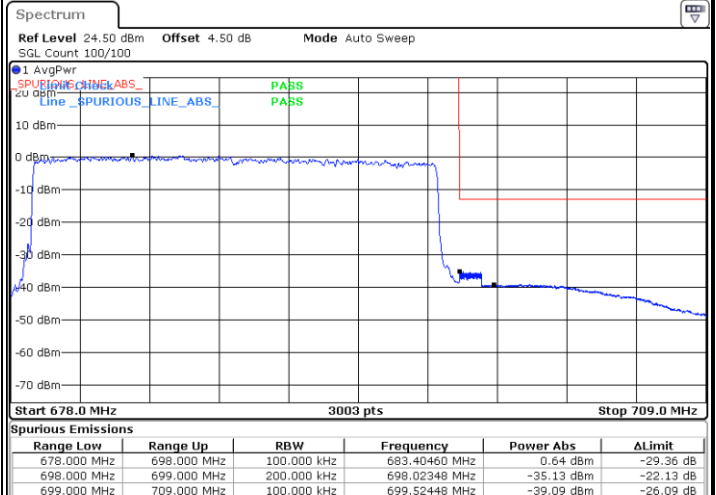
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



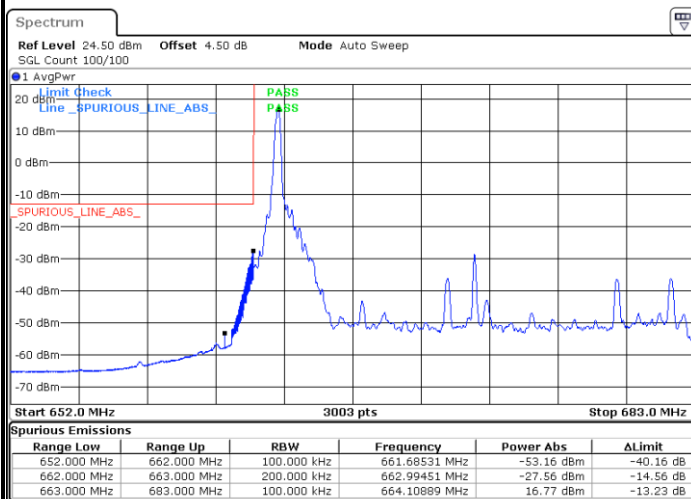
Highest Band Edge / Full RB



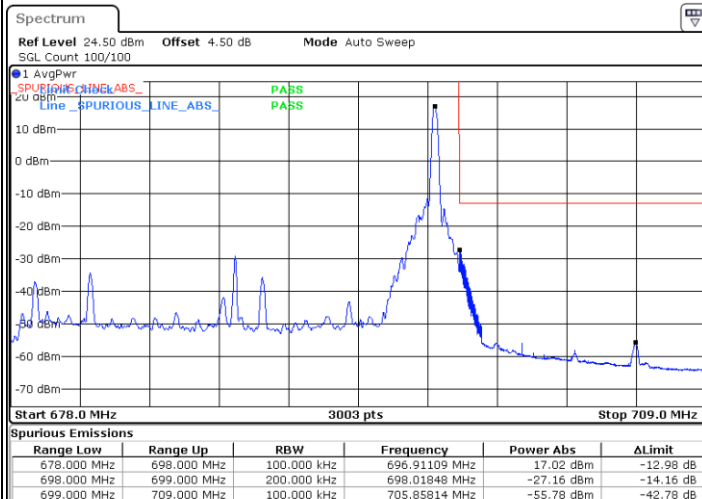


LTE Band 71 / 20MHz / 256QAM

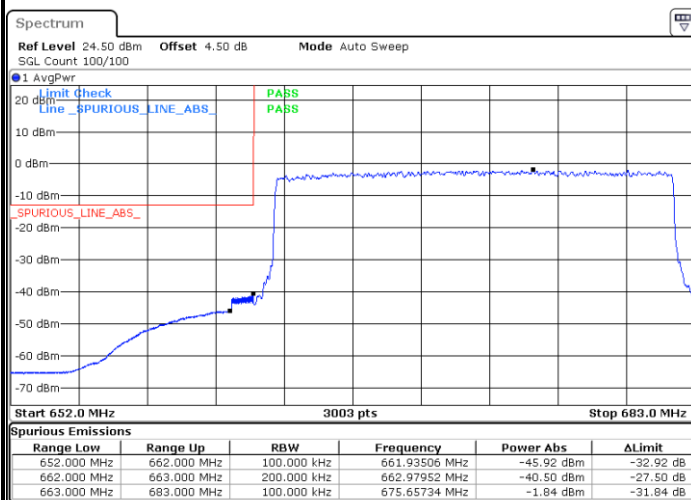
Lowest Band Edge / 1 RB



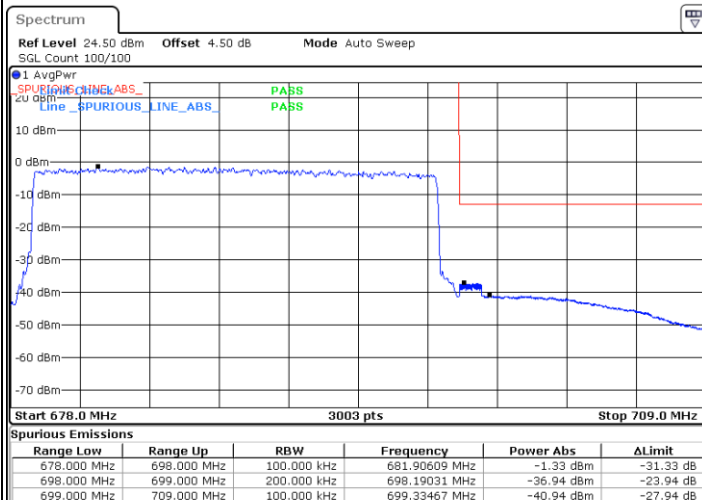
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

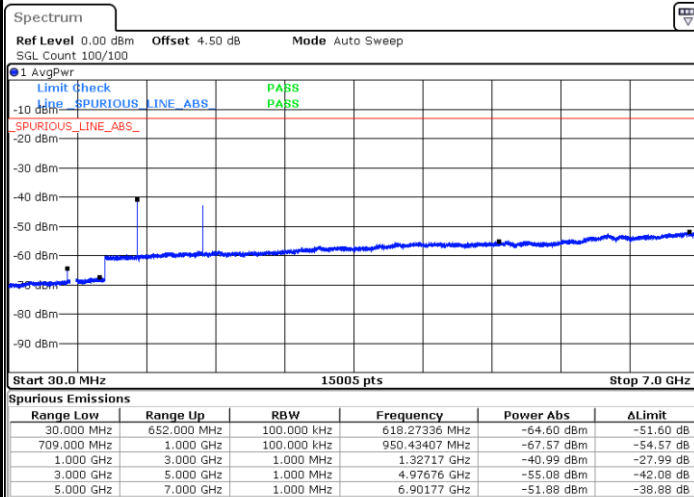




Conducted Spurious Emission

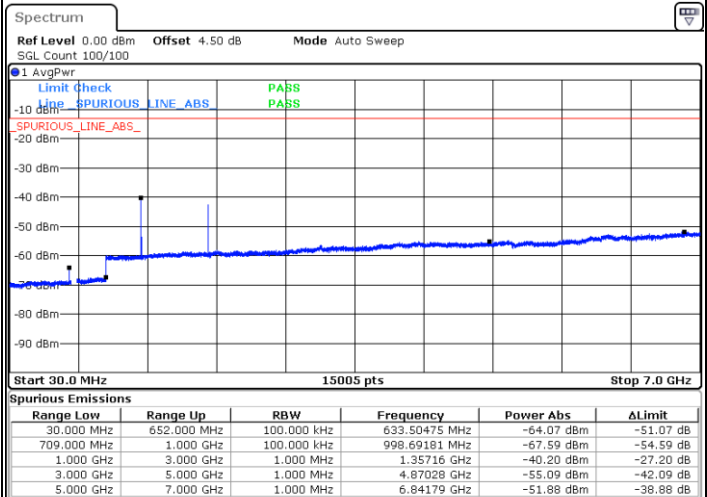
LTE Band 71 / 5MHz

Lowest Channel / QPSK



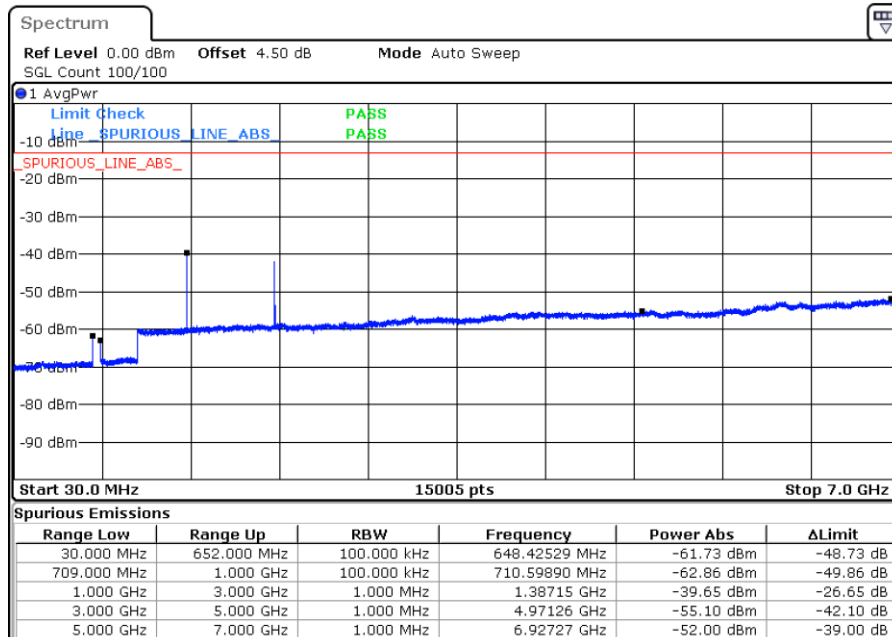
Date: 13.NOV.2021 17:55:09

Middle Channel / QPSK



Date: 13.NOV.2021 17:54:34

Highest Channel / QPSK

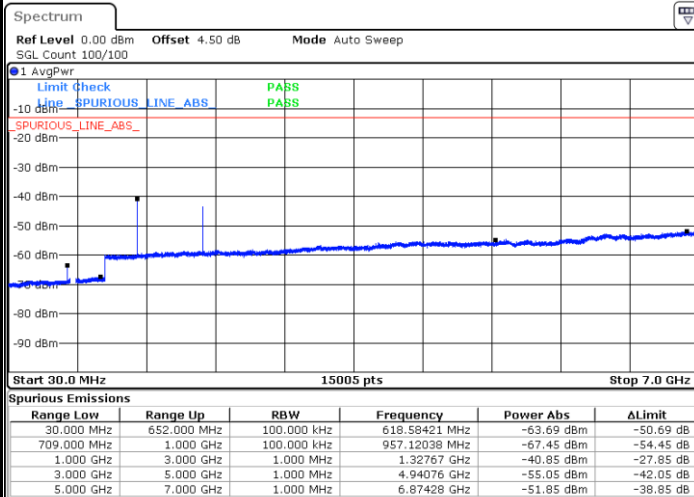


Date: 13.NOV.2021 18:05:19



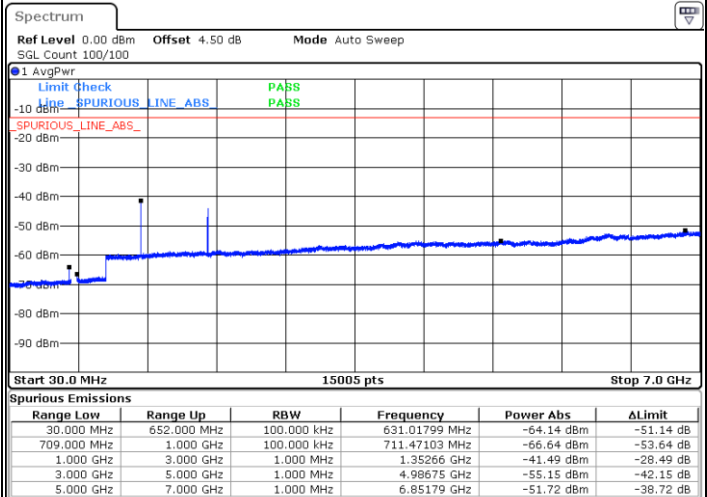
LTE Band 71 / 10MHz

Lowest Channel / QPSK



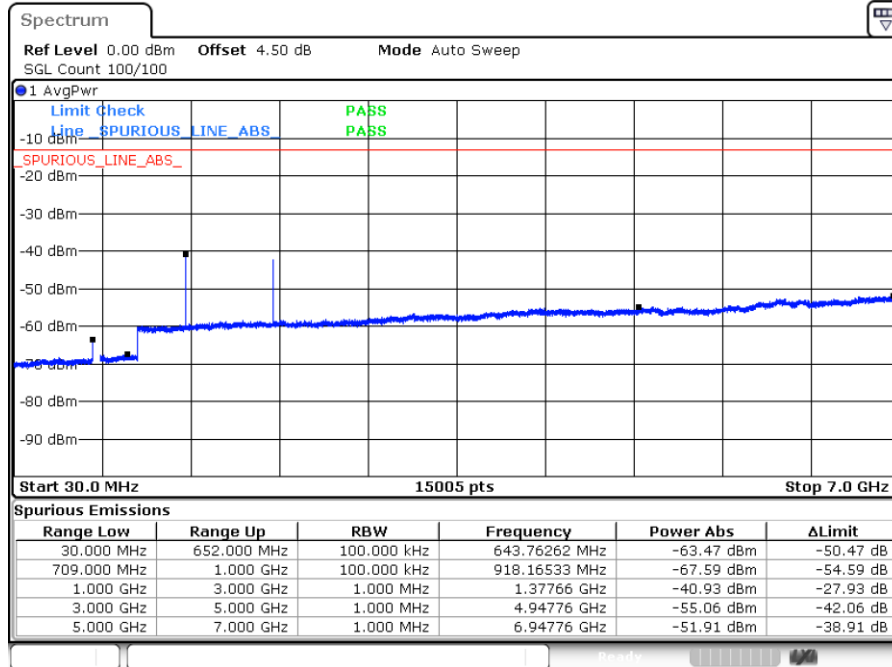
Date: 13.NOV.2021 17:34:35

Middle Channel / QPSK



Date: 13.NOV.2021 17:34:01

Highest Channel / QPSK

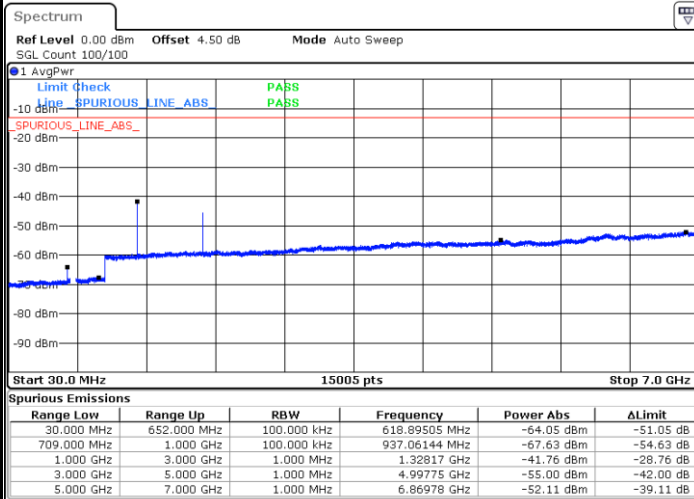


Date: 13.NOV.2021 17:43:26



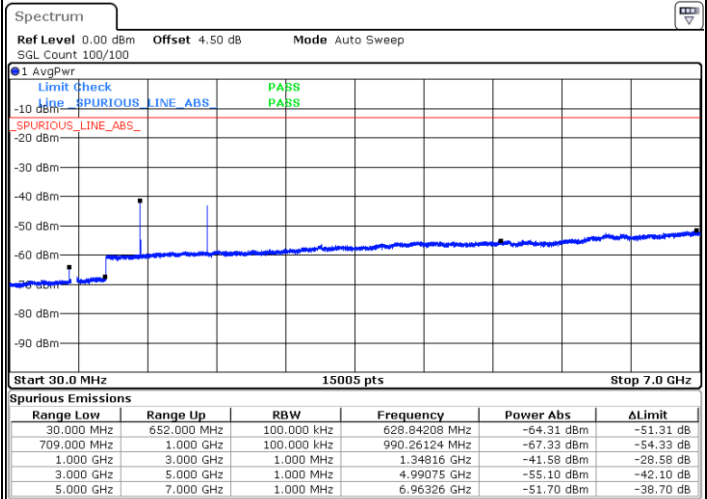
LTE Band 71 / 15MHz

Lowest Channel / QPSK



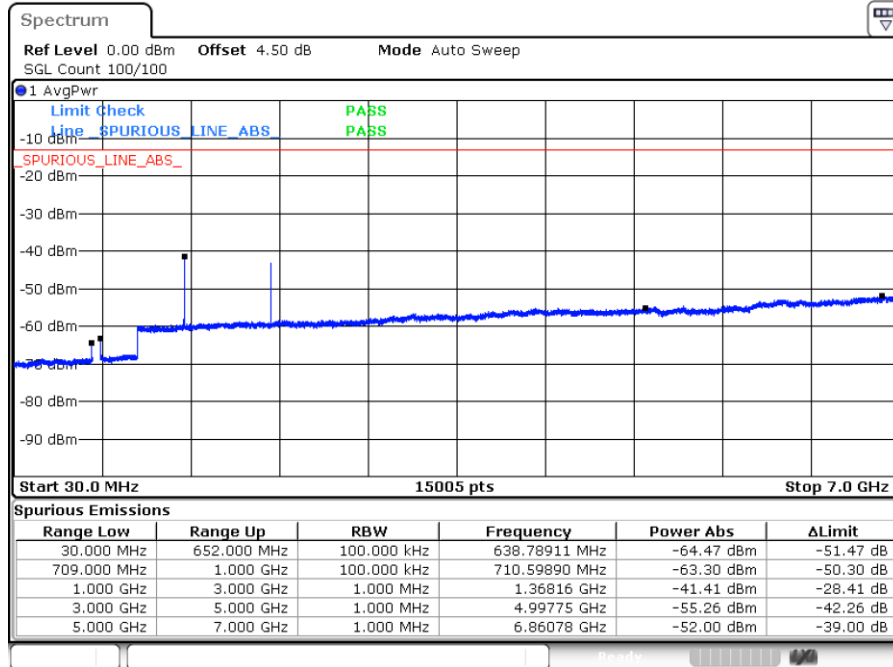
Date: 13.NOV.2021 17:14:02

Middle Channel / QPSK



Date: 13.NOV.2021 17:13:29

Highest Channel / QPSK

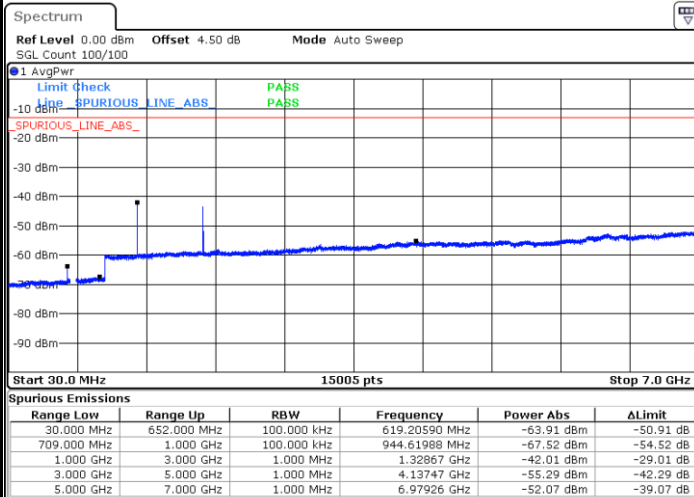


Date: 13.NOV.2021 17:24:27



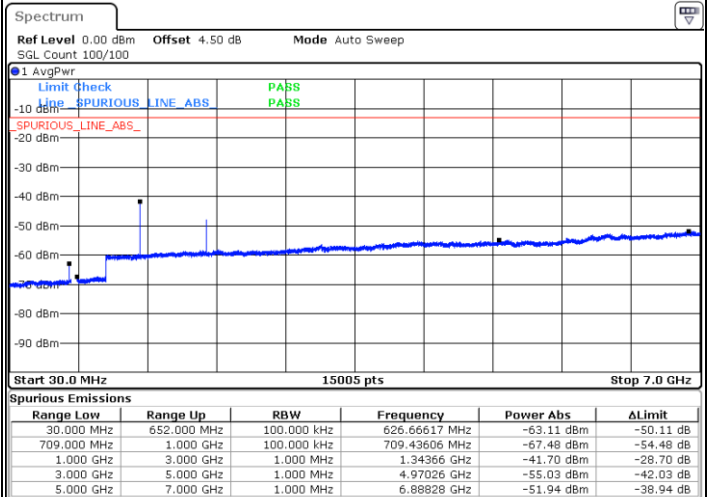
LTE Band 71 / 20MHz

Lowest Channel / QPSK



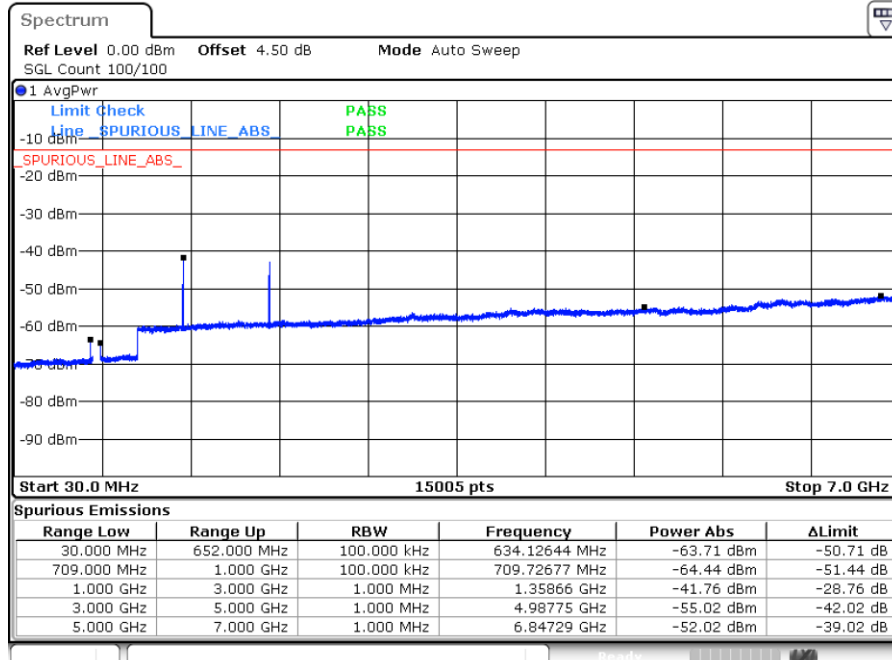
Date: 13.NOV.2021 16:56:15

Middle Channel / QPSK



Date: 13.NOV.2021 16:51:09

Highest Channel / QPSK



Date: 13.NOV.2021 17:04:04

**Frequency Stability**

Test Conditions		LTE Band 71 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0015	PASS
40	Normal Voltage	0.0022	
30	Normal Voltage	0.0018	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0033	
0	Normal Voltage	0.0024	
-10	Normal Voltage	0.0014	
-20	Normal Voltage	0.0028	
-30	Normal Voltage	0.0045	
20	Maximum Voltage	0.0031	
20	Normal Voltage	0.0028	
20	Battery End Point	0.0015	

Note:

1. Normal Voltage =12 V. ; Battery End Point (BEP) =10.8 V. ; Maximum Voltage =13.2 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 Chen	Temperature :	22~23℃
		Relative Humidity :	41~42%

Note:

1. LTE Band 66 overlaps the entire frequency range of LTE Band 4. Therefore, the test results provided in this report covers Band 66 as well as Band 4.
2. LTE Band 25 overlaps the entire frequency range of LTE Band 2. Therefore, the test results provided in this report covers Band 25 as well as Band 2.

For Sample1:

LTE Band 12 / 10MHz / 64QAM								
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	1406	-67.19	-13	-54.19	-74.16	1.58	10.70	H
	2110	-61.44	-13	-48.44	-69.69	2.102	12.50	H
	2812	-59.22	-13	-46.22	-68.11	2.856	13.90	H
	1406	-65.11	-13	-52.11	-72.08	1.58	10.70	V
	2110	-60.52	-13	-47.52	-68.77	2.10	12.50	V
	2812	-58.85	-13	-45.85	-67.74	2.86	13.90	V

LTE Band 13 / 5MHz / 64QAM								
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	-64.00	-40	-24.00	-68.78	1.09	5.87	H
	2340	-60.73	-13	-47.73	-63.13	1.37	5.92	H
	3120	-60.15	-13	-47.15	-64.04	1.64	7.68	H
	1560	-63.03	-40	-23.03	-67.81	1.09	5.87	V
	2340	-59.17	-13	-46.17	-61.57	1.37	5.92	V
	3120	-59.49	-13	-46.49	-63.38	1.64	7.68	V



LTE Band 13 / 10MHz / 64QAM								
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	1556	-65.22	-13	-52.22	-67.85	1.09	5.87	H
	2332	-61.18	-13	-48.18	-63.58	1.37	5.92	H
	3108	-59.30	-13	-46.30	-63.19	1.64	7.68	H
	1556	-65.00	-13	-52.00	-67.63	1.09	5.87	V
	2332	-59.69	-13	-46.69	-62.09	1.37	5.92	V
	3108	-59.37	-13	-46.37	-63.26	1.64	7.68	V

LTE Band 25 / 20MHz / QPSK								
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	3747	-58.18	-13	-45.18	-70.44	2.64	14.90	H
	5622	-57.52	-13	-44.52	-69.38	2.94	14.80	H
	7500	-55.18	-13	-42.18	-64.95	3.39	13.16	H
	3747	-58.45	-13	-45.45	-70.71	2.64	14.90	V
	5622	-58.25	-13	-45.25	-70.11	2.94	14.80	V
	7500	-55.30	-13	-42.30	-65.07	3.39	13.16	V

LTE Band 26 / 15MHz / 256QAM								
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	1660	-63.51	-13	-50.51	-70.48	1.58	10.70	H
	2490	-58.38	-13	-45.38	-66.63	2.102	12.50	H
	3318	-59.45	-13	-46.45	-68.34	2.856	13.90	H
	1660	-63.14	-13	-50.14	-70.11	1.58	10.70	V
	2490	-58.47	-13	-45.47	-66.72	2.10	12.50	V
	3318	-59.59	-13	-46.59	-68.48	2.86	13.90	V

LTE Band 66 / 20MHz / QPSK								
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	3471	-59.61	-13	-46.61	-70.35	2.604	13.34	H
	5208	-57.83	-13	-44.83	-68.34	3.011	13.52	H
	6948	-56.33	-13	-43.33	-66.53	3.271	13.47	H
	3471	-60.20	-13	-47.20	-70.94	2.604	13.34	V
	5208	-57.90	-13	-44.90	-68.41	3.011	13.52	V
	6948	-56.43	-13	-43.43	-66.63	3.271	13.47	V



LTE Band 71 / 20MHz / 64QAM								
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	1348	-67.81	-13	-54.81	-69.56	1.02	4.92	H
	2022	-62.96	-13	-49.96	-64.93	1.27	5.39	H
	2696	-60.15	-13	-47.15	-63.08	1.49	6.57	H
	1348	-67.04	-13	-54.04	-68.79	1.02	4.92	V
	2022	-62.17	-13	-49.17	-64.14	1.27	5.39	V
	2696	-59.77	-13	-46.77	-62.70	1.49	6.57	V

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



For Sample2:

LTE Band 12 / 10MHz / 16QAM								
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	1406	-66.21	-13	-53.21	-73.18	1.58	10.70	H
	2110	-63.80	-13	-50.80	-72.05	2.102	12.50	H
	2812	-61.32	-13	-48.32	-70.21	2.856	13.90	H
	1406	-68.34	-13	-55.34	-75.31	1.58	10.70	V
	2110	-63.85	-13	-50.85	-72.10	2.10	12.50	V
	2812	-61.40	-13	-48.40	-70.29	2.86	13.90	V

LTE Band 13 / 5MHz / 16QAM								
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	-63.88	-40	-23.88	-68.66	1.09	5.87	H
	2340	-60.93	-13	-47.93	-63.33	1.37	5.92	H
	3120	-59.91	-13	-46.91	-63.80	1.64	7.68	H
	1560	-63.05	-40	-23.05	-67.83	1.09	5.87	V
	2340	-59.39	-13	-46.39	-61.79	1.37	5.92	V
	3120	-59.55	-13	-46.55	-63.44	1.64	7.68	V

LTE Band 13 / 10MHz / 16QAM								
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	1556	-65.70	-13	-52.70	-68.33	1.09	5.87	H
	2332	-61.13	-13	-48.13	-63.53	1.37	5.92	H
	3108	-59.44	-13	-46.44	-63.33	1.64	7.68	H
	1556	-64.57	-13	-51.57	-67.20	1.09	5.87	V
	2332	-59.76	-13	-46.76	-62.16	1.37	5.92	V
	3108	-59.15	-13	-46.15	-63.04	1.64	7.68	V

LTE Band 25 / 20MHz / 64QAM								
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	3747	-58.52	-13	-45.52	-70.78	2.64	14.90	H
	5622	-57.41	-13	-44.41	-69.27	2.94	14.80	H
	7500	-55.27	-13	-42.27	-65.04	3.39	13.16	H
	3747	-58.31	-13	-45.31	-70.57	2.64	14.90	V
	5622	-58.35	-13	-45.35	-70.21	2.94	14.80	V
	7500	-55.08	-13	-42.08	-64.85	3.39	13.16	V

LTE Band 26 / 15MHz / 16QAM								
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	1656	-65.71	-13	-52.71	-72.68	1.58	10.70	H
	2482	-60.97	-13	-47.97	-69.22	2.102	12.50	H
	3312	-62.22	-13	-49.22	-71.11	2.856	13.90	H
	1656	-65.41	-13	-52.41	-72.38	1.58	10.70	V
	2482	-61.05	-13	-48.05	-69.30	2.10	12.50	V
	3312	-62.04	-13	-49.04	-70.93	2.86	13.90	V

LTE Band 66 / 20MHz / 64QAM								
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	3492	-59.43	-13	-46.43	-70.17	2.604	13.34	H
	5238	-57.81	-13	-44.81	-68.32	3.011	13.52	H
	6984	-55.72	-13	-42.72	-65.92	3.271	13.47	H
	3492	-59.93	-13	-46.93	-70.67	2.604	13.34	V
	5238	-57.73	-13	-44.73	-68.24	3.011	13.52	V
	6984	-55.79	-13	-42.79	-65.99	3.271	13.47	V

LTE Band 71 / 20MHz / 16QAM								
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	1348	-67.81	-13	-54.81	-69.56	1.02	4.92	H
	2022	-62.96	-13	-49.96	-64.93	1.27	5.39	H
	2696	-60.18	-13	-47.18	-63.11	1.49	6.57	H
	1348	-66.66	-13	-53.66	-68.41	1.02	4.92	V
	2022	-61.82	-13	-48.82	-63.79	1.27	5.39	V
	2696	-59.48	-13	-46.48	-62.41	1.49	6.57	V

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