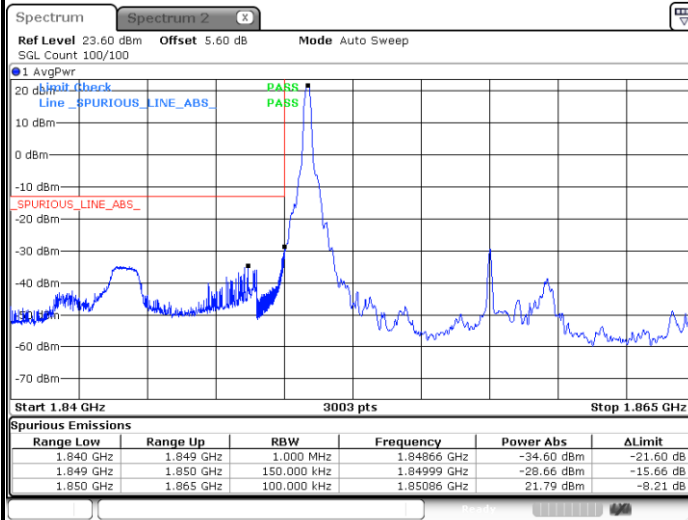


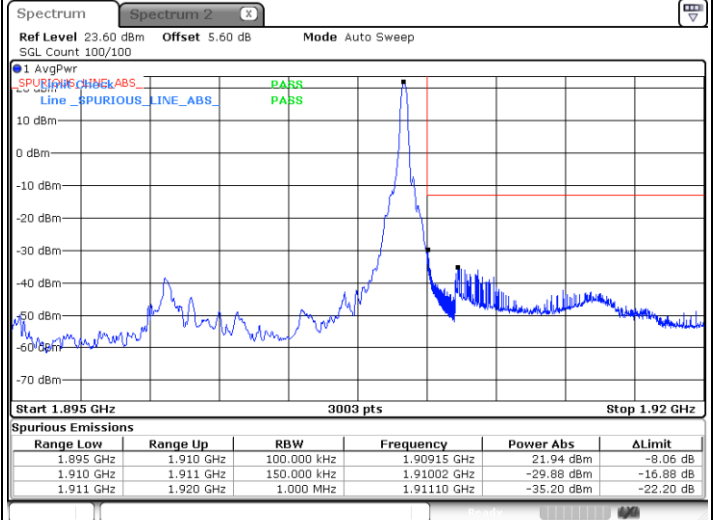


LTE Band 2 / 15MHz / QPSK

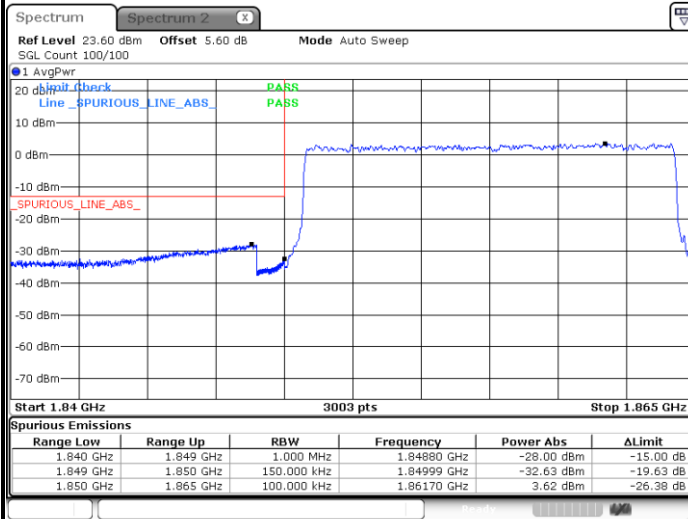
Lowest Band Edge / 1 RB



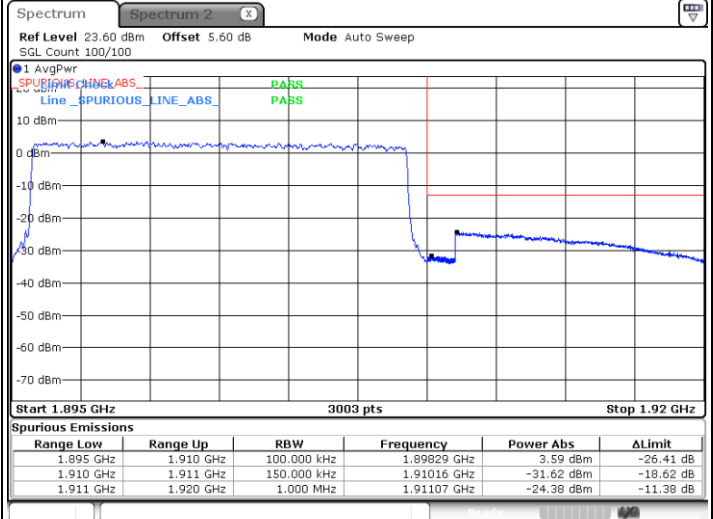
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



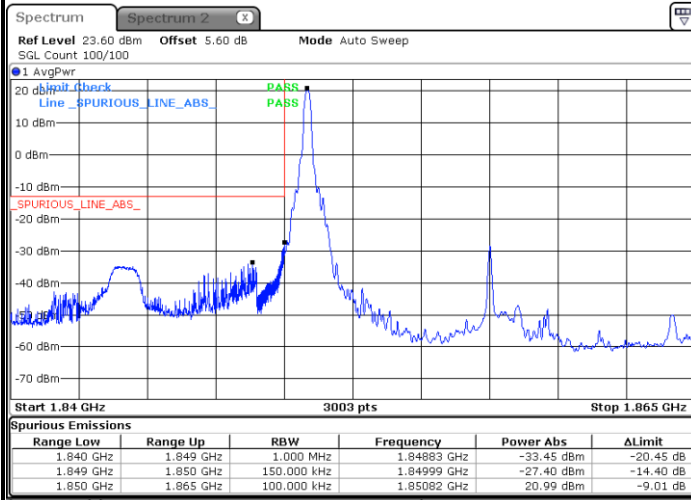
Highest Band Edge / Full RB



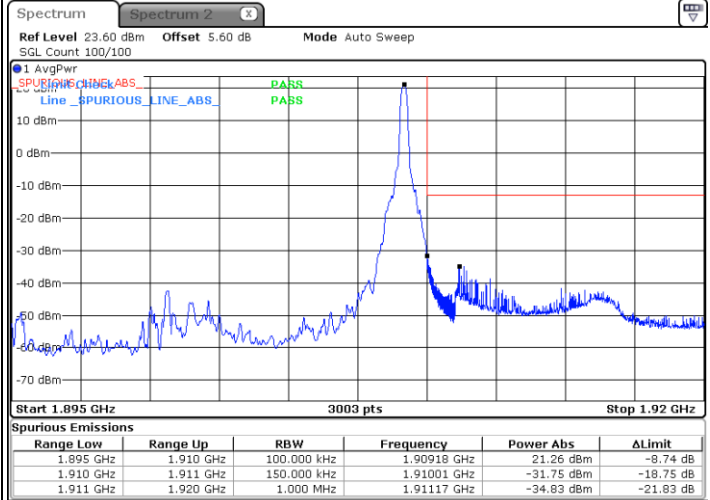


LTE Band 2 / 15MHz / 16QAM

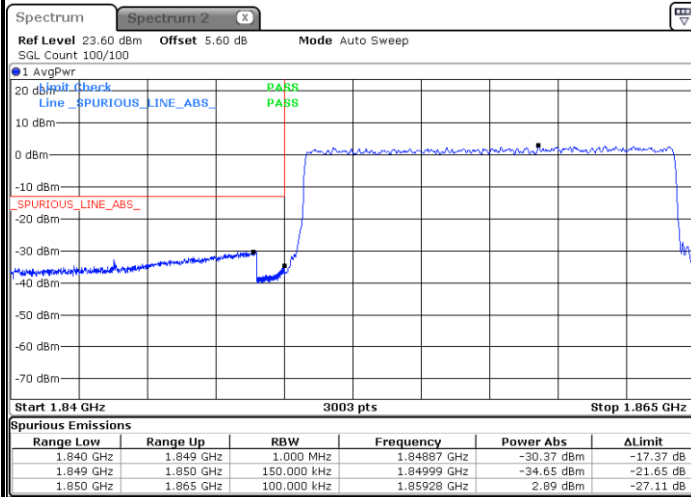
Lowest Band Edge / 1 RB



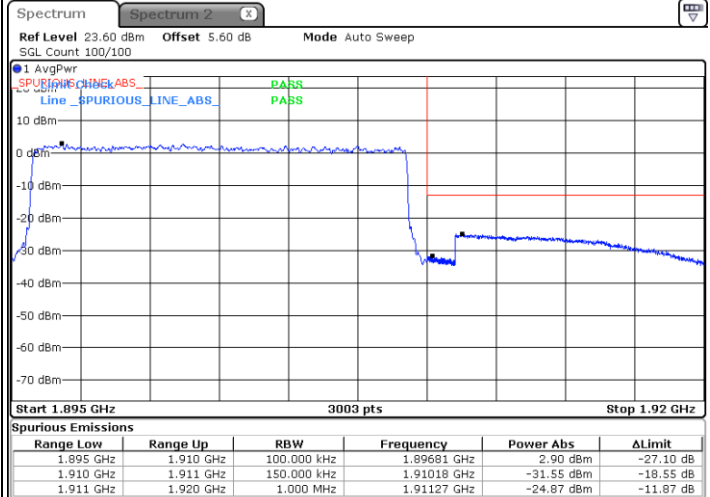
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



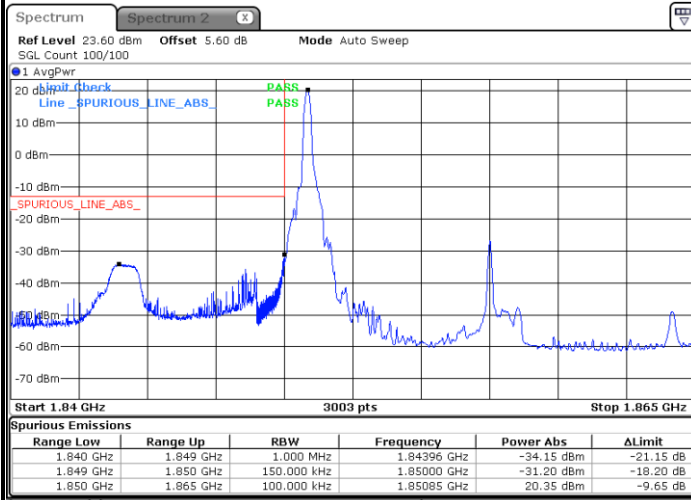
Highest Band Edge / Full RB



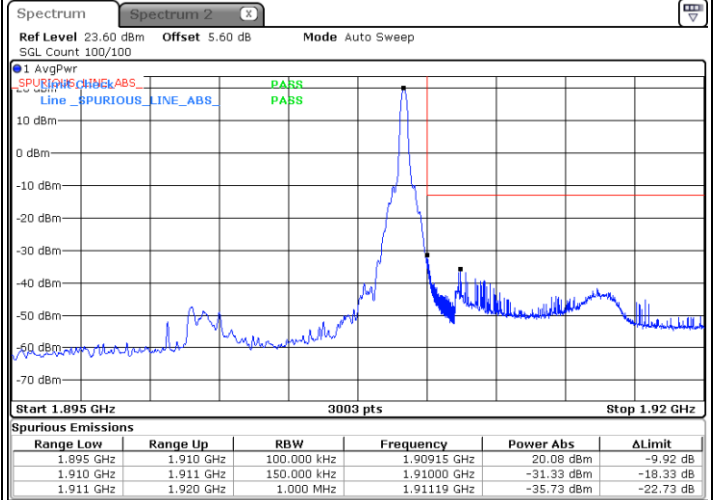


LTE Band 2 / 15MHz / 64QAM

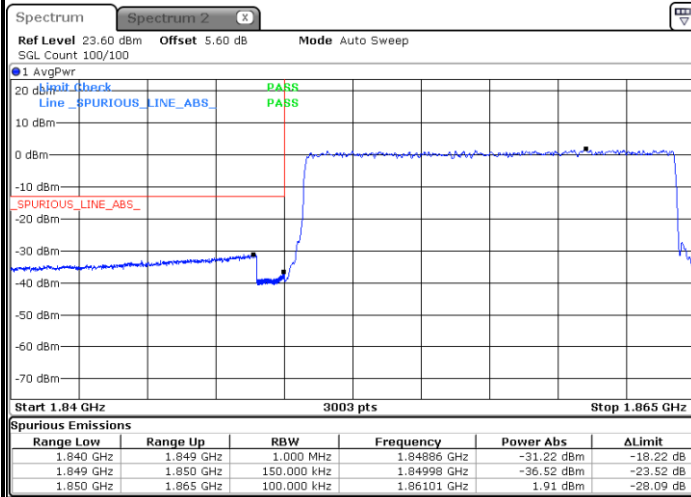
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



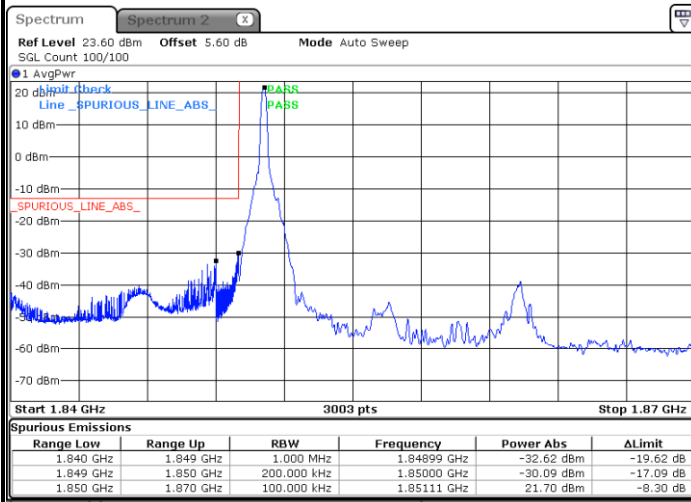
Highest Band Edge / Full RB



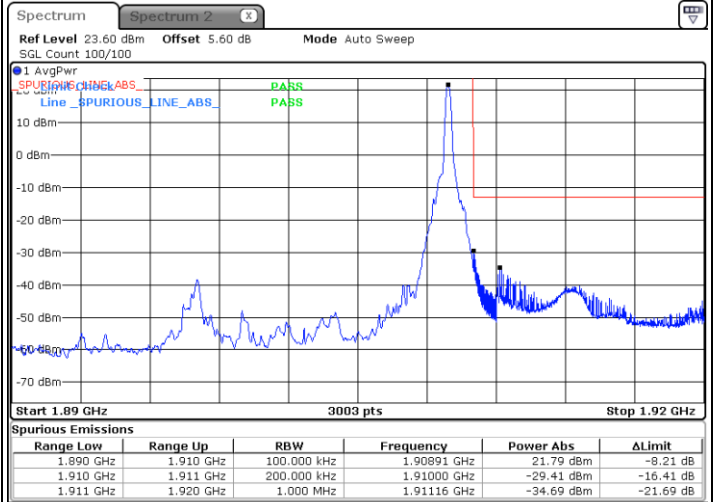


LTE Band 2 / 20MHz / QPSK

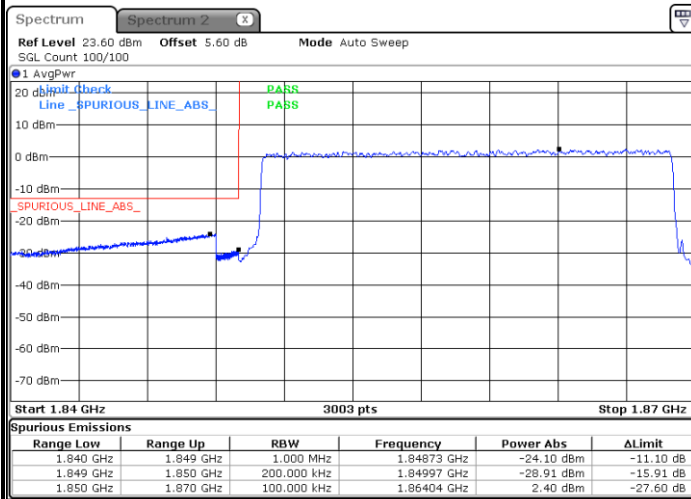
Lowest Band Edge / 1 RB



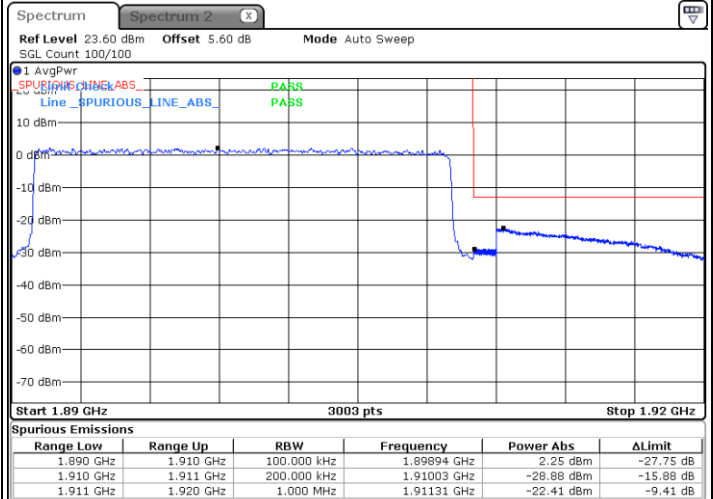
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



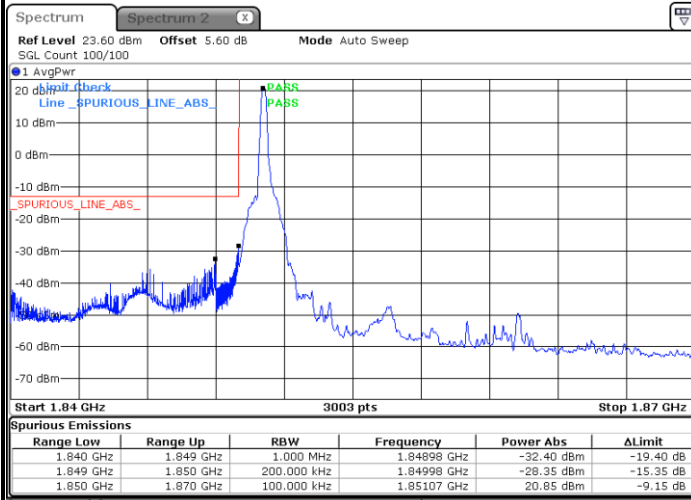
Highest Band Edge / Full RB





LTE Band 2 / 20MHz / 16QAM

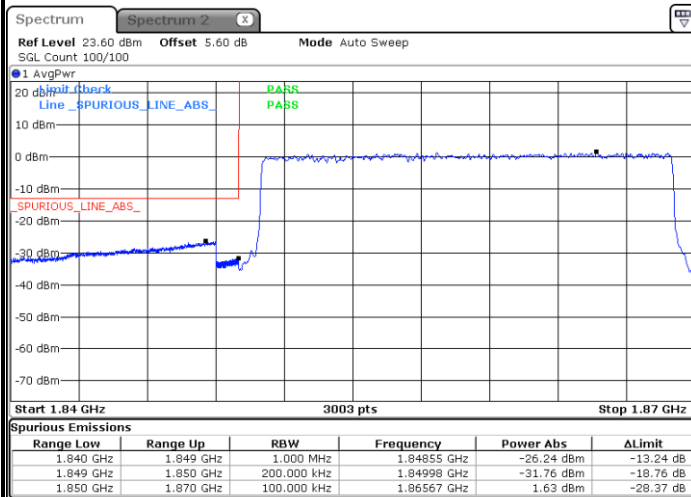
Lowest Band Edge / 1 RB



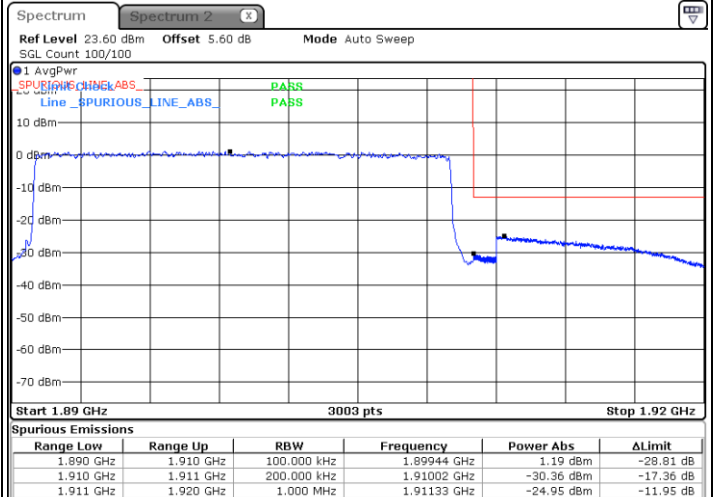
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



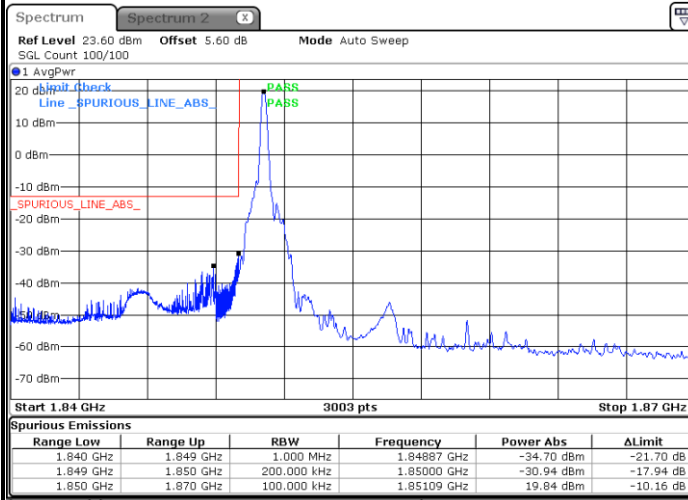
Highest Band Edge / Full RB





LTE Band 2 / 20MHz / 64QAM

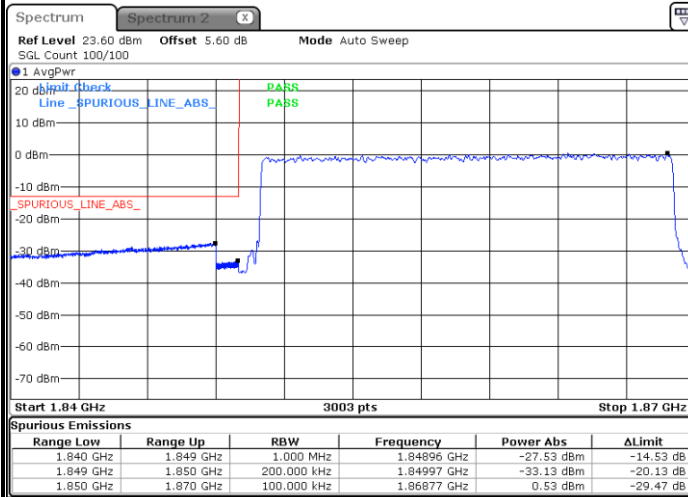
Lowest Band Edge / 1 RB



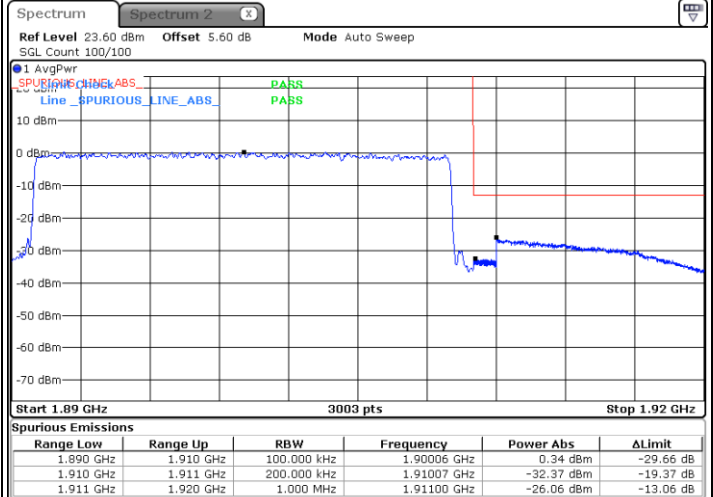
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

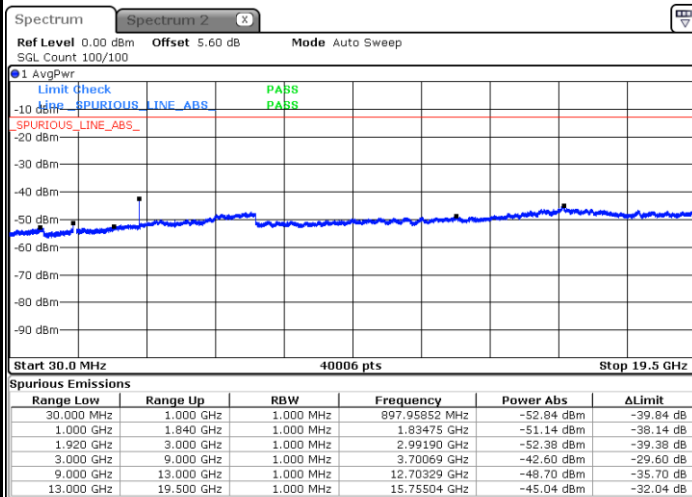




Conducted Spurious Emission

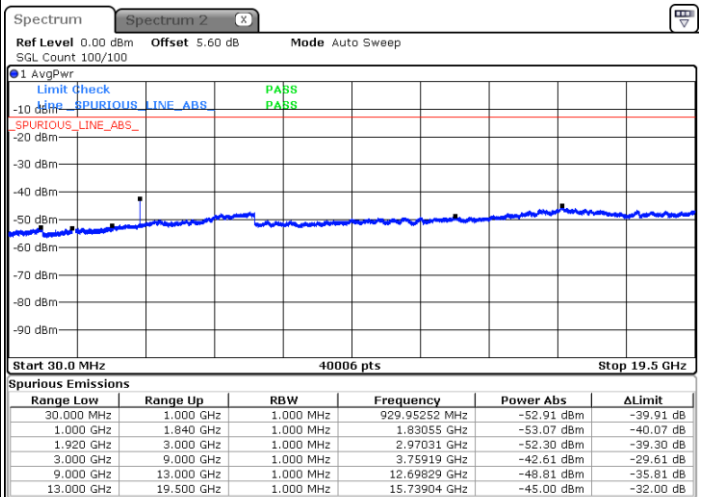
LTE Band 2 / 1.4MHz

Lowest Channel / QPSK



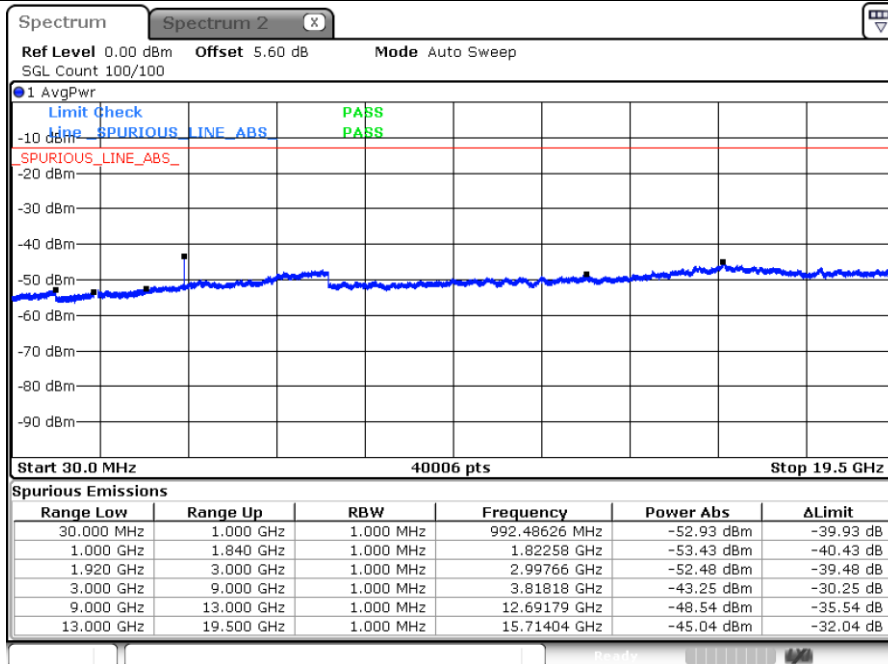
Date: 16.AUG.2021 15:37:28

Middle Channel / QPSK



Date: 16.AUG.2021 15:36:42

Highest Channel / QPSK

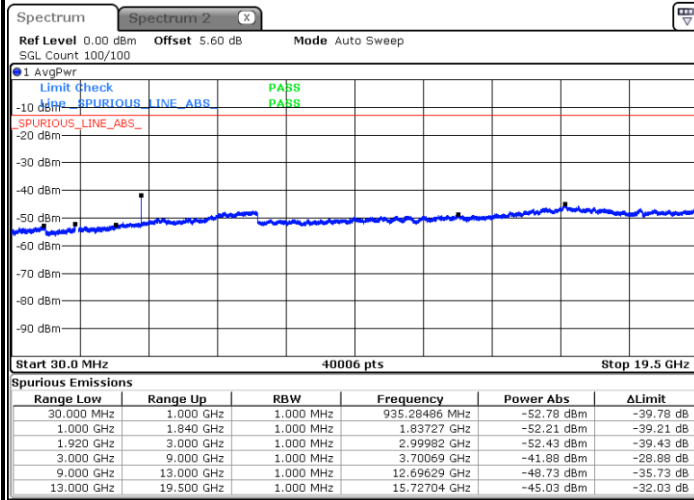


Date: 16.AUG.2021 15:35:55



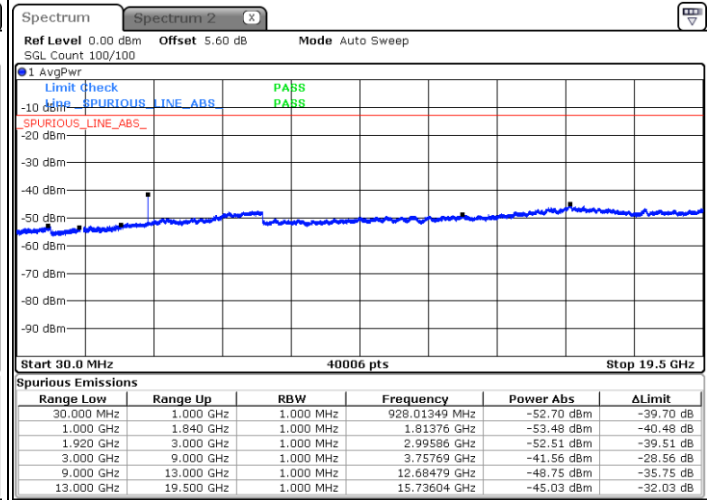
LTE Band 2 / 3MHz

Lowest Channel / QPSK



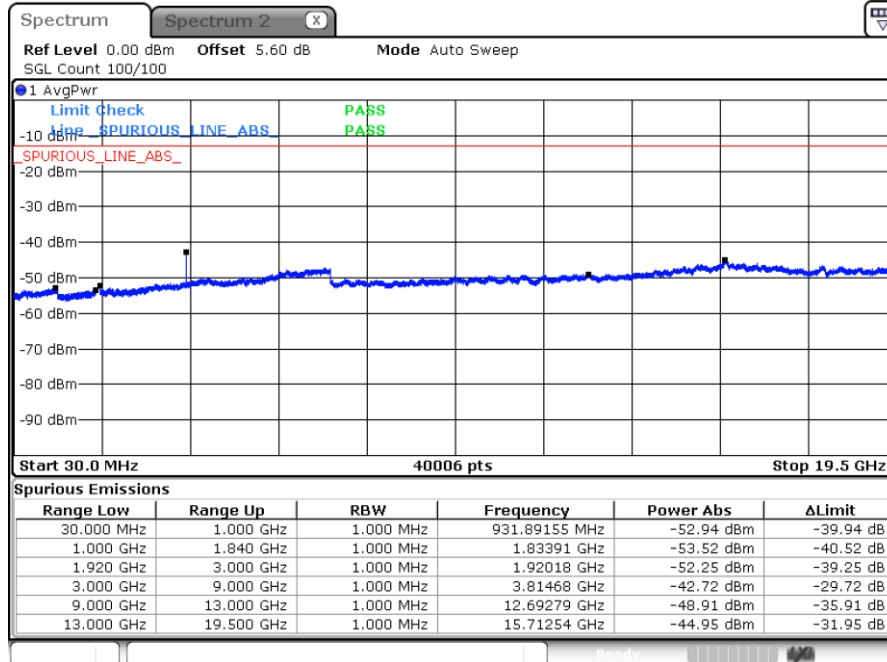
Date: 16.AUG.2021 15:52:25

Middle Channel / QPSK



Date: 16.AUG.2021 15:51:39

Highest Channel / QPSK

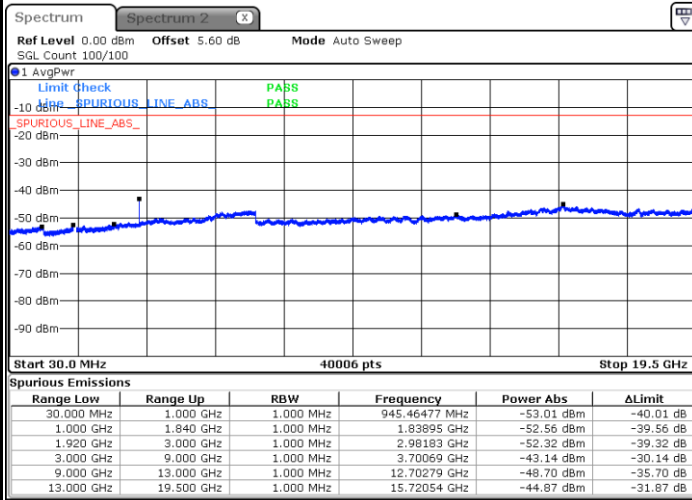


Date: 16.AUG.2021 15:50:53



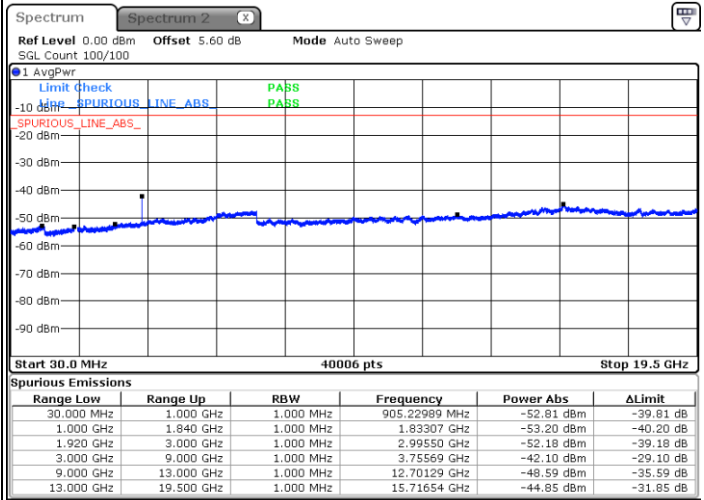
LTE Band 2 / 5MHz

Lowest Channel / QPSK



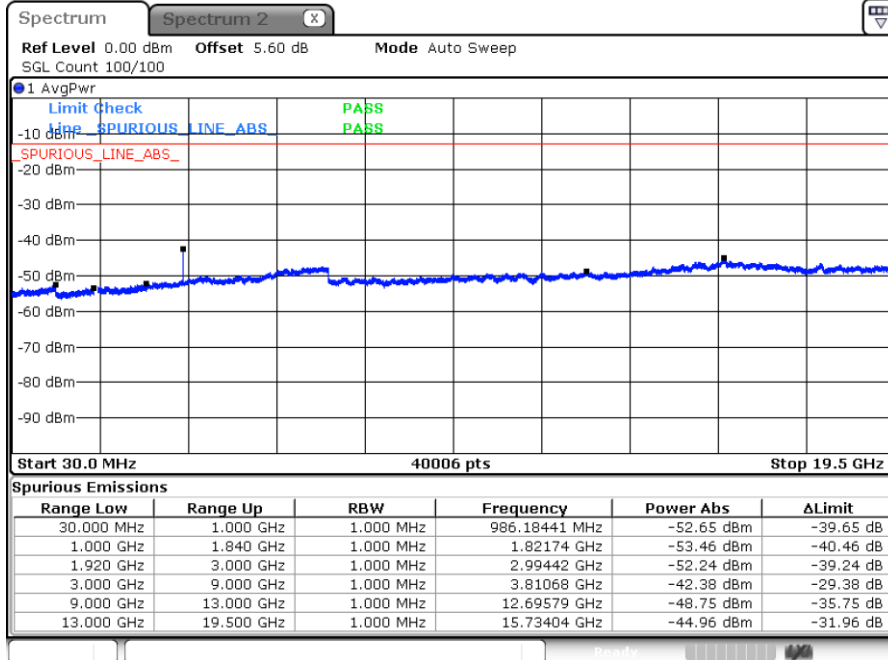
Date: 16.AUG.2021 16:04:49

Middle Channel / QPSK



Date: 16.AUG.2021 16:03:58

Highest Channel / QPSK

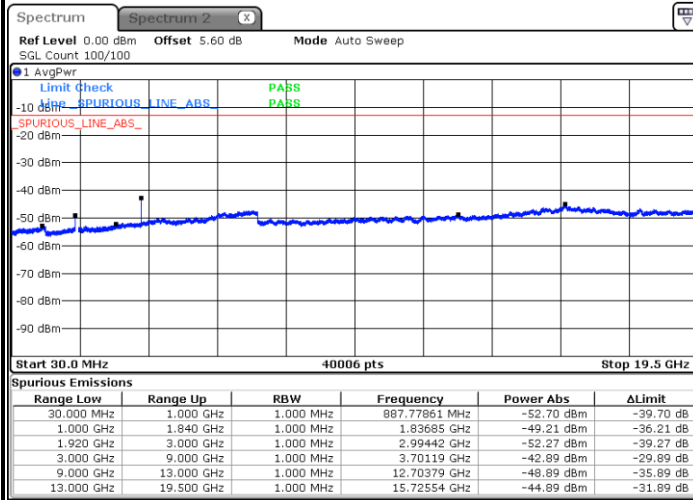


Date: 16.AUG.2021 16:03:08



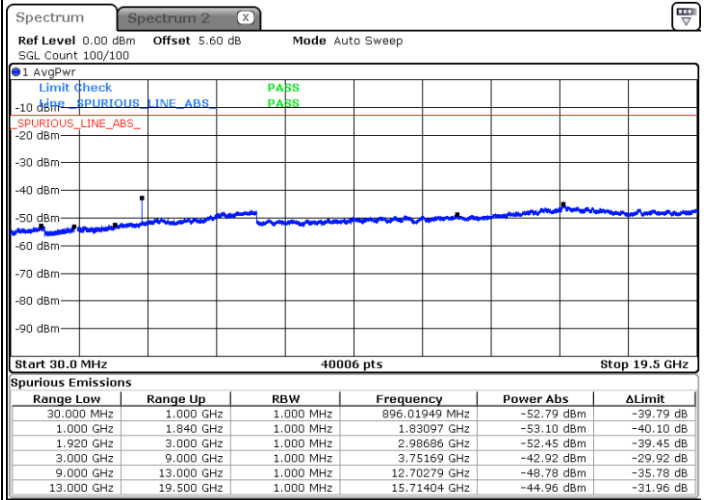
LTE Band 2 / 10MHz

Lowest Channel / QPSK



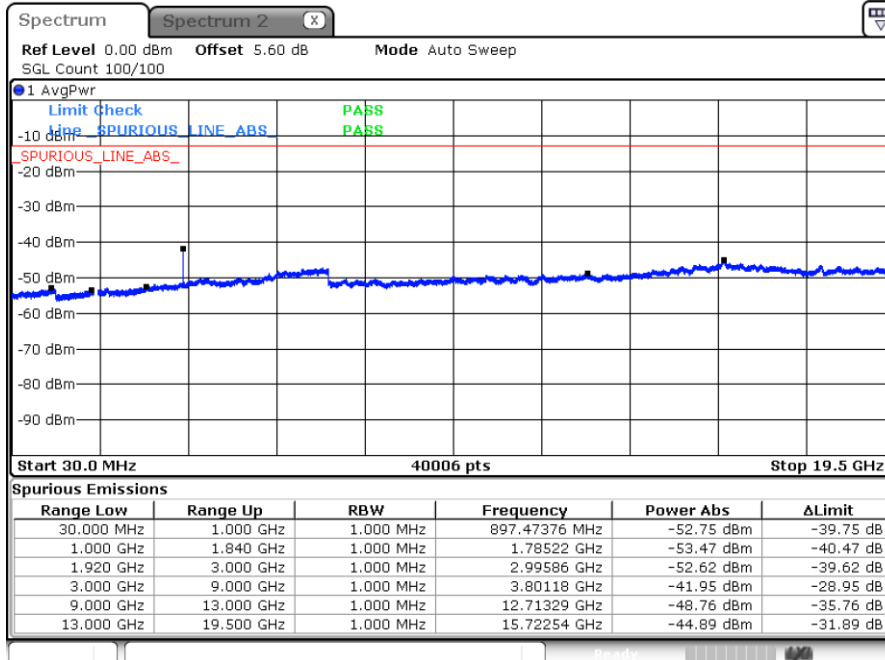
Date: 16.AUG.2021 16:14:31

Middle Channel / QPSK



Date: 16.AUG.2021 16:13:39

Highest Channel / QPSK

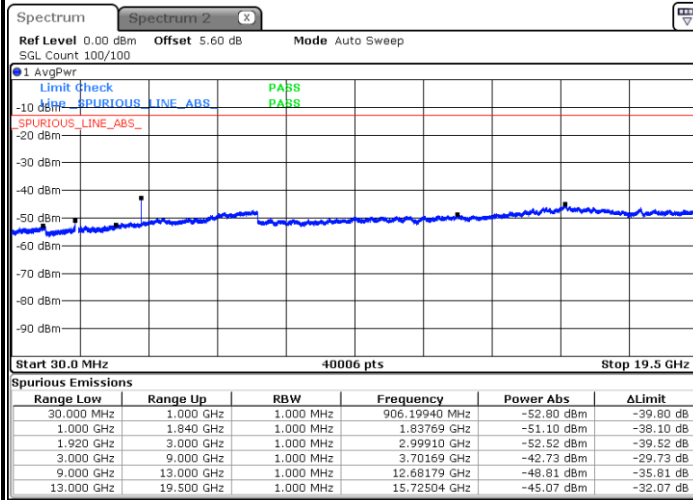


Date: 16.AUG.2021 16:12:47



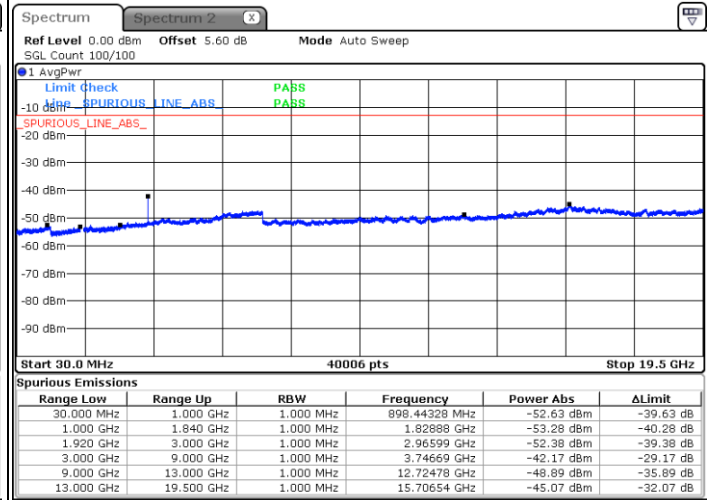
LTE Band 2 / 15MHz

Lowest Channel / QPSK



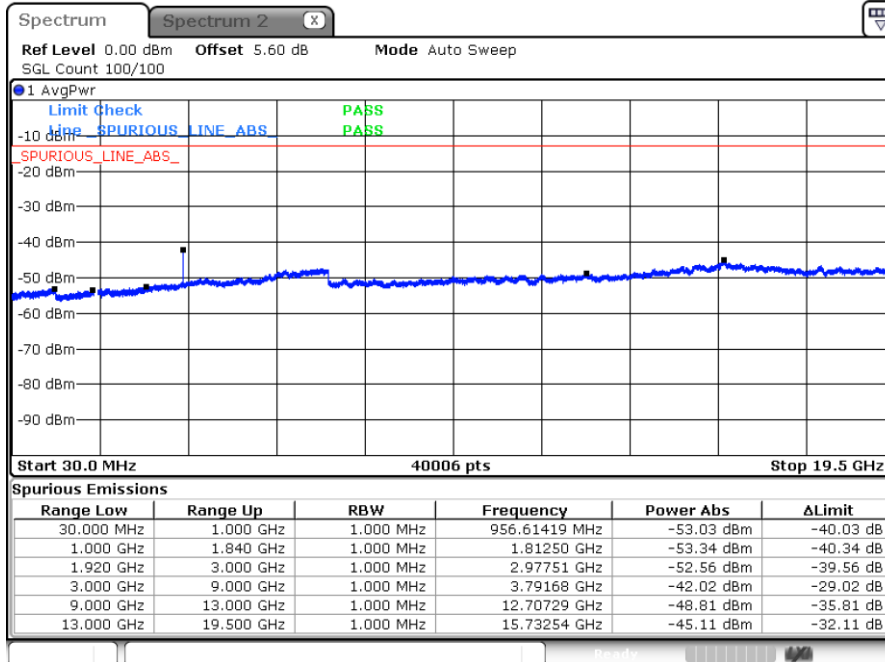
Date: 16.AUG.2021 16:25:16

Middle Channel / QPSK



Date: 16.AUG.2021 16:24:27

Highest Channel / QPSK

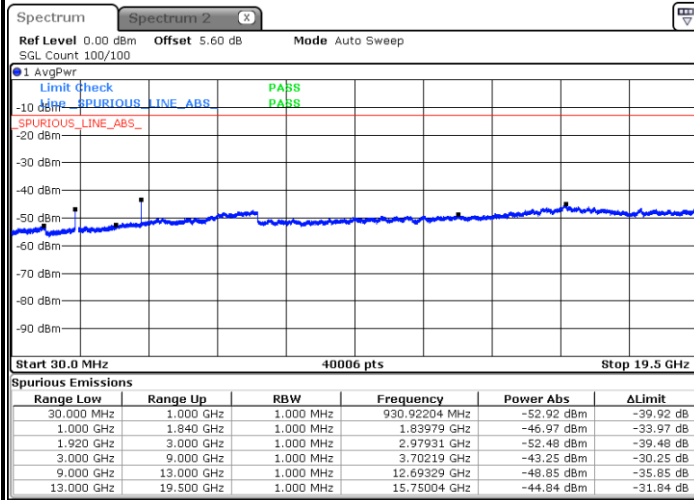


Date: 16.AUG.2021 16:23:42



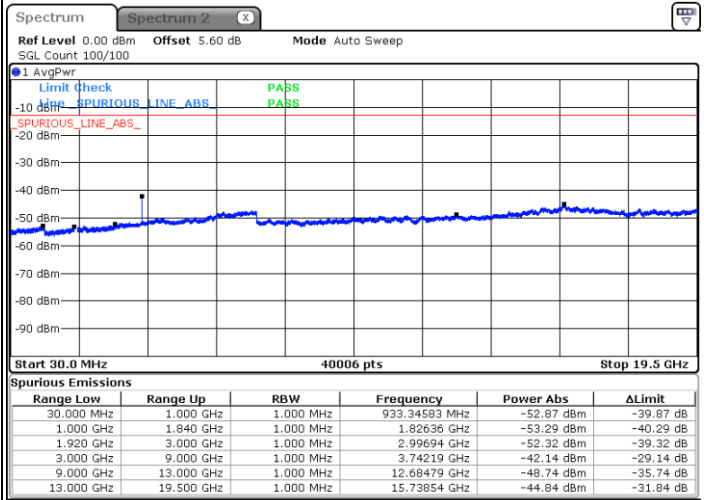
LTE Band 2 / 20MHz

Lowest Channel / QPSK



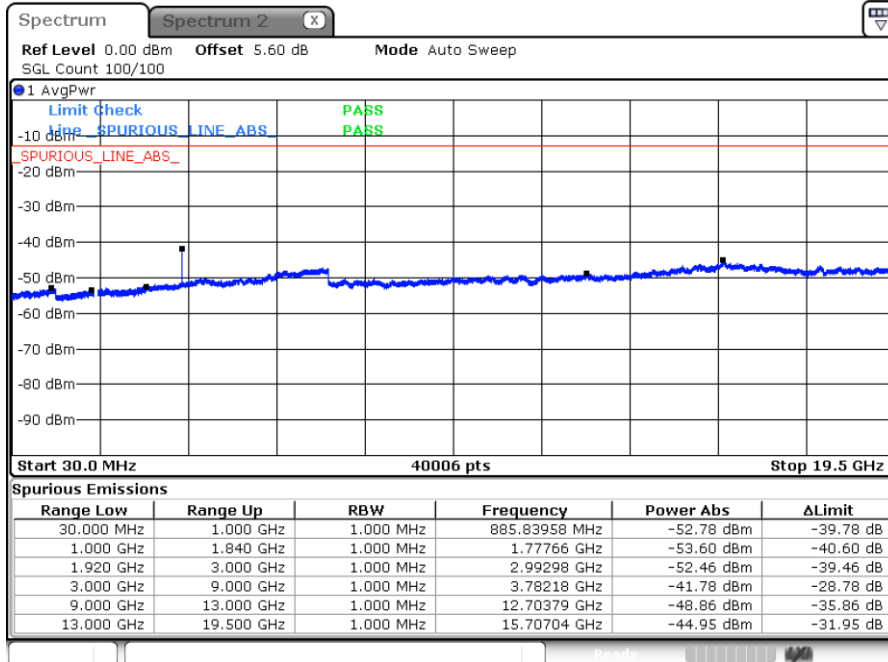
Date: 16.AUG.2021 16:36:55

Middle Channel / QPSK



Date: 16.AUG.2021 16:37:43

Highest Channel / QPSK



Date: 16.AUG.2021 16:38:31

Frequency Stability

Test Conditions		LTE Band 2 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0007	PASS
40	Normal Voltage	0.0014	
30	Normal Voltage	0.0005	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0025	
0	Normal Voltage	0.0000	
-10	Normal Voltage	0.0001	
-20	Normal Voltage	0.0011	
-30	Normal Voltage	0.0012	
20	Maximum Voltage	0.0023	
20	Normal Voltage	0.0002	
20	Battery End Point	0.0016	

Note:

1. Normal Voltage =3.87V. ; Battery End Point (BEP) =3.65V. ; Maximum Voltage = 4.45V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

LTE Band 2 / 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	3741	-53.07	-13	-40.07	-65.33	2.64	14.90	H
	5613	-52.84	-13	-39.84	-64.70	2.94	14.80	H
	7488	-51.32	-13	-38.32	-61.09	3.39	13.16	H
	3741	-54.59	-13	-41.59	-66.85	2.64	14.90	V
	5613	-51.22	-13	-38.22	-63.08	2.94	14.80	V
	7488	-53.40	-13	-40.40	-63.17	3.39	13.16	V

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

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	3447	-54.91	-13	-41.91	-65.65	2.604	13.34	H
	5172	-54.48	-13	-41.48	-64.99	3.011	13.52	H
	6900	-54.83	-13	-41.83	-65.03	3.271	13.47	H
	3447	-56.53	-13	-43.53	-67.27	2.604	13.34	V
	5172	-54.77	-13	-41.77	-65.28	3.011	13.52	V
	6900	-54.96	-13	-41.96	-65.16	3.271	13.47	V

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

LTE Band 12 / 10MHz / 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	1406	-61.08	-13	-48.08	-68.05	1.58	10.70	H
	2110	-61.14	-13	-48.14	-69.77	1.72	12.50	H
	2812	-58.84	-13	-45.84	-68.63	1.96	13.90	H
	3516	-59.44	-13	-46.44	-68.14	2.45	13.30	H
	1406	-61.90	-13	-48.90	-68.87	1.58	10.70	V
	2110	-59.66	-13	-46.66	-68.29	1.72	12.50	V
	2812	-58.73	-13	-45.73	-68.52	1.96	13.90	V
	3516	-59.46	-13	-46.46	-68.16	2.45	13.30	V

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



LTE Band 26 / 15MHz / 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	1660	-63.70	-13	-50.70	-70.67	1.58	10.70	H
	2490	-57.36	-13	-44.36	-65.85	1.86	12.50	H
	3318	-60.19	-13	-47.19	-69.73	2.21	13.90	H
	4152	-60.88	-13	-47.88	-69.34	2.69	13.30	H
	4980	-56.56	-13	-43.56	-64.32	3.09	13.00	H
	5808	-57.14	-13	-44.14	-65.91	3.18	14.10	H
	6636	-55.39	-13	-42.39	-62.63	3.31	12.70	H
	1660	-63.93	-13	-50.93	-70.90	1.58	10.70	V
	2490	-57.41	-13	-44.41	-65.90	1.86	12.50	V
	3318	-58.07	-13	-45.07	-67.61	2.21	13.90	V
	4152	-60.87	-13	-47.87	-69.33	2.69	13.30	V
	4980	-56.57	-13	-43.57	-64.33	3.09	13.00	V
	5808	-57.00	-13	-44.00	-65.77	3.18	14.10	V
	6636	-56.58	-13	-43.58	-63.82	3.31	12.70	V

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

LTE Band 38 / 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	5172	-59.67	-25	-34.67	-69.88	3.03	13.24	H
	7760	-39.01	-25	-14.01	-48.46	3.56	13.01	H
	10340	-48.89	-25	-23.89	-58.41	3.92	13.44	H
	12930	-51.28	-25	-26.28	-60.32	4.39	13.43	H
	5172	-59.54	-25	-34.54	-69.75	3.03	13.24	V
	7760	-47.34	-25	-22.34	-56.79	3.56	13.01	V
	10340	-50.96	-25	-25.96	-60.48	3.92	13.44	V
	12930	-56.01	-25	-31.01	-65.05	4.39	13.43	V

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



Appendix D. Reference Report

Please refer to Sporton report number FG122708B which is issued separately.