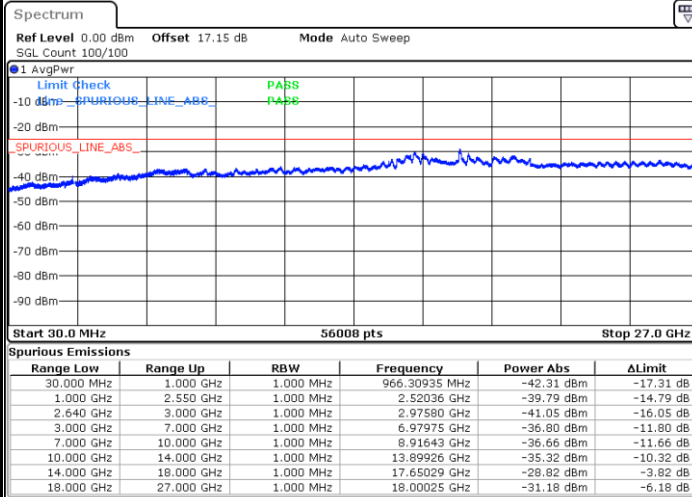




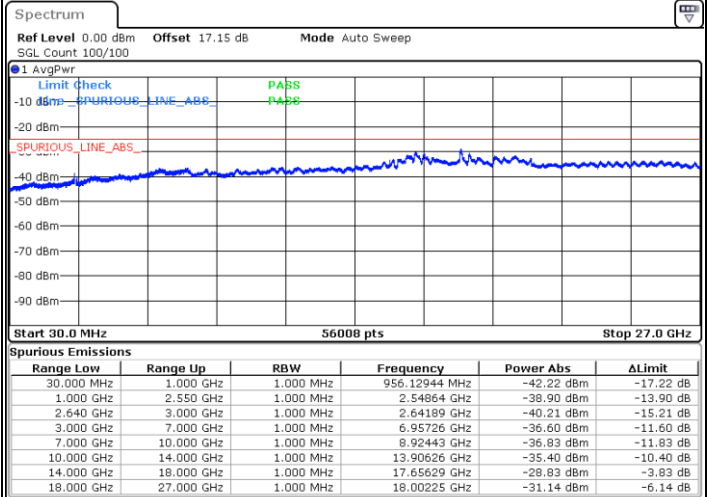
LTE Band 38 / 10MHz

Lowest Channel / QPSK



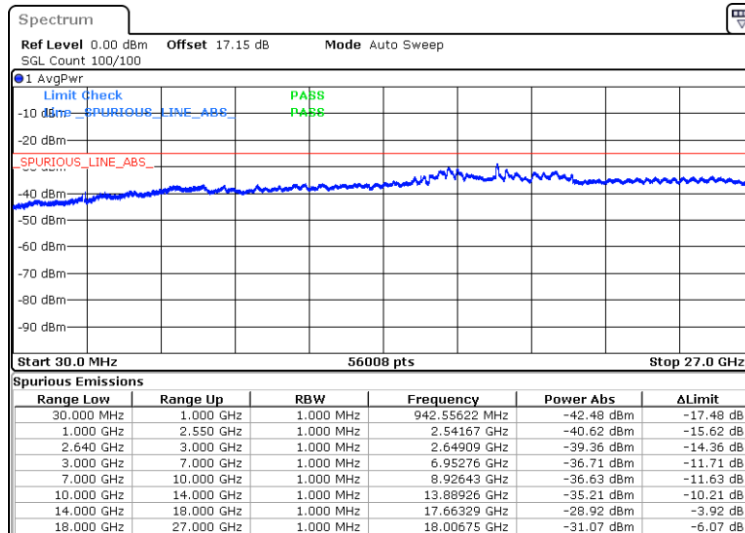
Date: 15.APR.2023 17:08:53

Middle Channel / QPSK



Date: 15.APR.2023 17:10:26

Highest Channel / QPSK

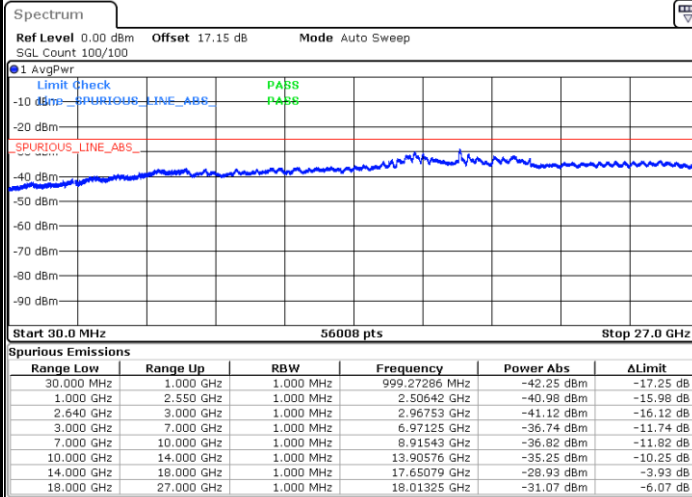


Date: 15.APR.2023 17:11:59



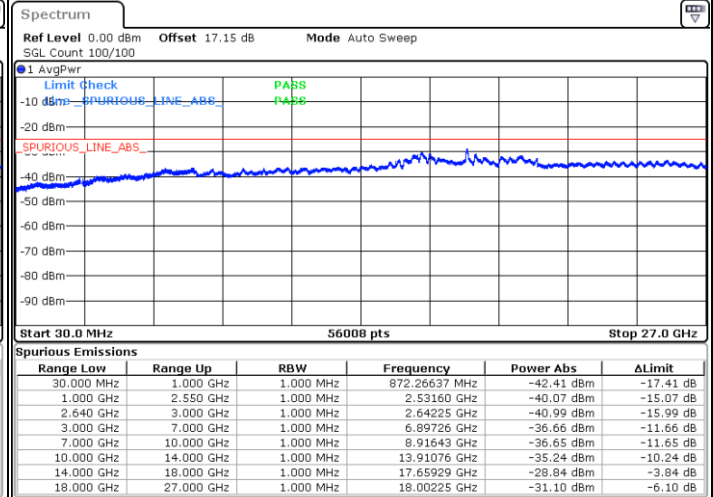
LTE Band 38 / 15MHz

Lowest Channel / QPSK



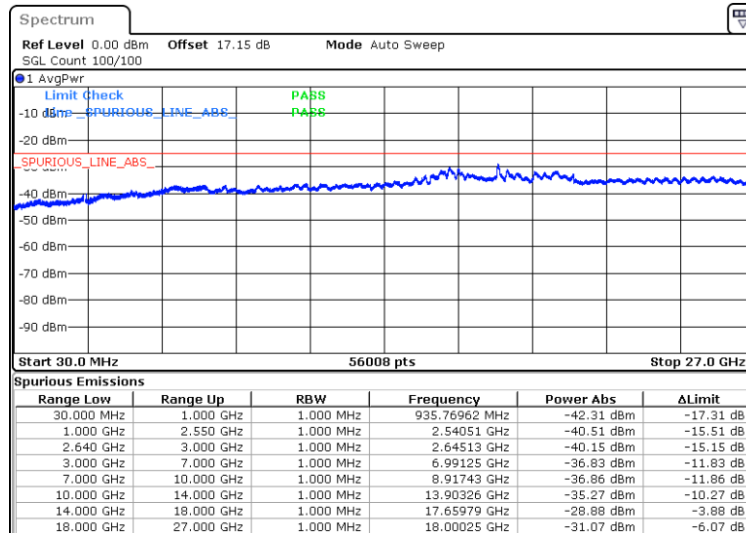
Date: 15.APR.2023 17:13:33

Middle Channel / QPSK



Date: 15.APR.2023 17:15:07

Highest Channel / QPSK

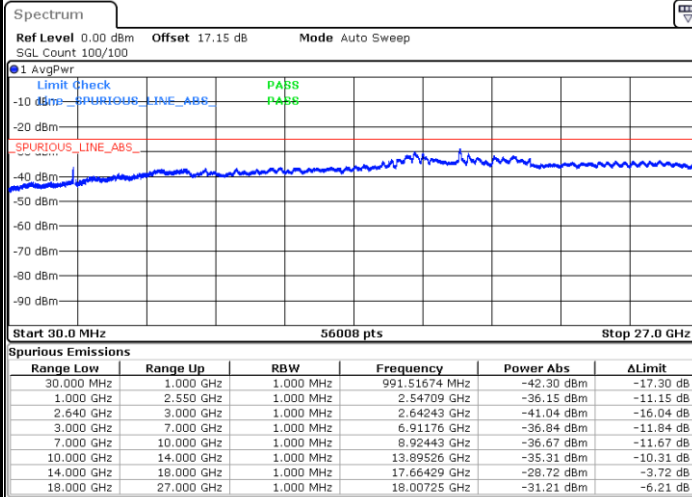


Date: 15.APR.2023 17:16:40



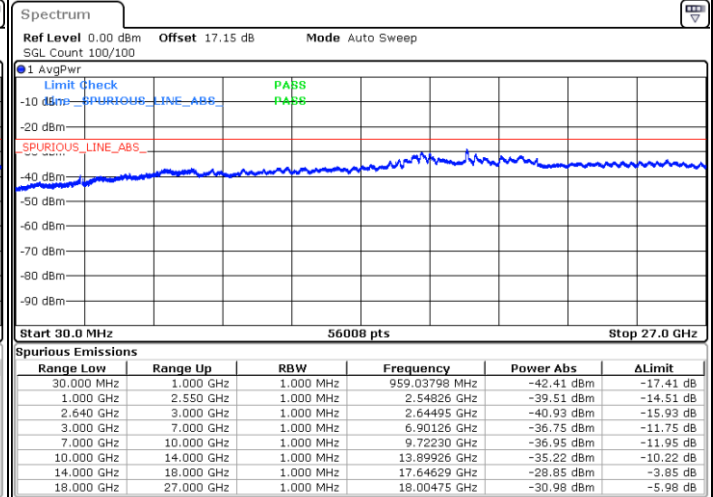
LTE Band 38 / 20MHz

Lowest Channel / QPSK



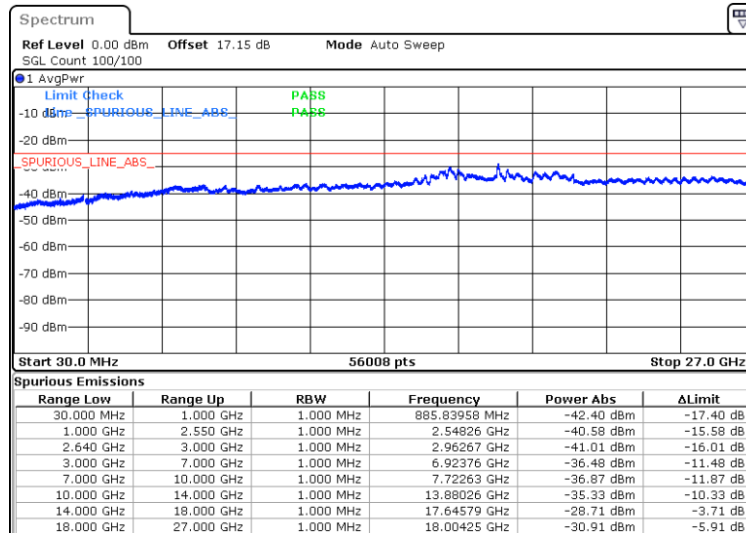
Date: 15.APR.2023 17:18:14

Middle Channel / QPSK



Date: 15.APR.2023 17:19:46

Highest Channel / QPSK



Date: 15.APR.2023 17:21:20

Frequency Stability

Test Conditions		LTE Band 38 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0035	PASS
40	Normal Voltage	0.0041	
30	Normal Voltage	0.0006	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0035	
0	Normal Voltage	0.0033	
-10	Normal Voltage	0.0005	
-20	Normal Voltage	0.0034	
-30	Normal Voltage	0.0020	
20	Maximum Voltage	0.0018	
20	Normal Voltage	0.0035	
20	Battery End Point	0.0020	

Note:

1. Normal Voltage = 3.87 V. ; Battery End Point (BEP) = 3.60 V. ; Maximum Voltage = 4.2 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



Appendix B. Test Results of Radiated Test

<Ant. 0>

LTE Band 5

LTE Band 5 / 10MHz / QPSK									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1649	-40.57	-13	-27.57	-56.73	-46.95	0.71	9.24	H
	2474	-60.59	-13	-47.59	-80.65	-67.74	0.95	10.25	H
	3298	-58.32	-13	-45.32	-81.89	-65.86	1.10	10.79	H
									H
									H
									H
									H
	1649	-36.87	-13	-23.87	-52.89	-43.25	0.71	9.24	V
	2474	-61.29	-13	-48.29	-81.38	-68.44	0.95	10.25	V
	3298	-58.74	-13	-45.74	-82.12	-66.28	1.10	10.79	V
									V
									V
									V
									V
Middle	1664	-39.34	-13	-26.34	-55.51	-45.82	0.72	9.35	H
	2496	-57.17	-13	-44.17	-77.4	-64.28	0.95	10.21	H
	3328	-58.56	-13	-45.56	-82.13	-66.22	1.11	10.91	H
									H
									H
									H
									H
	1664	-36.79	-13	-23.79	-52.83	-43.27	0.72	9.35	V
	2496	-46.83	-13	-33.83	-67.05	-53.94	0.95	10.21	V
	3328	-58.93	-13	-45.93	-82.36	-66.59	1.11	10.91	V
									V
									V
									V
									V



Highest	1679	-39.52	-13	-26.52	-55.7	-46.11	0.72	9.45	H
	2519	-60.94	-13	-47.94	-81.35	-68.06	0.95	10.22	H
	3358	-58.89	-13	-45.89	-82.46	-66.66	1.11	11.03	H
									H
									H
									H
									H
	1679	-37.50	-13	-24.50	-53.55	-44.09	0.72	9.45	V
	2519	-61.18	-13	-48.18	-81.55	-68.30	0.95	10.22	V
	3358	-59.20	-13	-46.20	-82.68	-66.97	1.11	11.03	V
									V
									V
									V
									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)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1399	-38.66	-13.00	-25.66	-54.70	-43.43	0.77	7.69	H
	2099	-48.71	-13.00	-35.71	-67.08	-55.49	0.87	9.80	H
	2798	-60.35	-13.00	-47.35	-81.37	-67.79	1.01	10.60	H
									H
									H
									H
									H
	1399	-40.37	-13.00	-27.37	-56.11	-45.14	0.77	7.69	V
	2099	-40.20	-13.00	-27.20	-58.63	-46.98	0.87	9.80	V
	2798	-60.87	-13.00	-47.87	-81.90	-68.31	1.01	10.60	V
									V
									V
									V
									V
Middle	1406	-36.28	-13.00	-23.28	-52.31	-41.11	0.77	7.75	H
	2109	-60.31	-13.00	-47.31	-78.77	-67.09	0.87	9.80	H
	2812	-60.41	-13.00	-47.41	-81.55	-67.81	1.01	10.56	H
									H
									H
									H
									H
	1406	-39.10	-13.00	-26.10	-54.85	-43.93	0.77	7.75	V
	2109	-38.10	-13.00	-25.10	-56.61	-44.88	0.87	9.80	V
	2812	-60.67	-13.00	-47.67	-81.80	-68.07	1.01	10.56	V
									V
									V
									V
									V



Highest	1413	-37.57	-13.00	-24.57	-53.61	-42.46	0.76	7.80	H
	2120	-55.44	-13.00	-42.44	-73.99	-62.22	0.87	9.80	H
	2826	-60.79	-13.00	-47.79	-82.07	-68.15	1.02	10.52	H
									H
									H
									H
									H
	1413	-39.35	-13.00	-26.35	-55.12	-44.24	0.76	7.80	V
	2120	-58.49	-13.00	-45.49	-77.09	-65.27	0.87	9.80	V
	2826	-60.98	-13.00	-47.98	-82.23	-68.34	1.02	10.52	V
									V
									V
									V
									V

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



<Ant. 1>

LTE Band 2

LTE Band 2 / 20MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3702	-47.94	-13	-34.94	-72.87	-58.22	1.17	11.45	H
	5553	-42.46	-13	-29.46	-72.53	-52.97	1.49	12.01	H
	7404	-51.31	-13	-38.31	-84.77	-60.62	1.71	11.02	H
									H
									H
									H
									H
	3702	-49.21	-13	-36.21	-73.98	-59.49	1.17	11.45	V
	5553	-37.45	-13	-24.45	-67.19	-47.96	1.49	12.01	V
	7404	-51.33	-13	-38.33	-84.74	-60.64	1.71	11.02	V
									V
									V
									V
									V
Middle	3742	-53.95	-13	-40.95	-79.07	-64.16	1.18	11.39	H
	5613	-47.29	-13	-34.29	-77.58	-57.87	1.46	12.05	H
	7484	-50.92	-13	-37.92	-84.41	-60.57	1.68	11.34	H
									H
									H
									H
									H
	3742	-51.29	-13	-38.29	-76.24	-61.50	1.18	11.39	V
	5613	-37.94	-13	-24.94	-67.87	-48.52	1.46	12.05	V
	7484	-51.44	-13	-38.44	-84.83	-61.09	1.68	11.34	V
									V
									V
									V
									V



Highest	3782	-48.17	-13	-35.17	-73.47	-58.31	1.19	11.33	H
	5673	-41.39	-13	-28.39	-71.92	-51.72	1.48	11.81	H
	7564	-50.99	-13	-37.99	-84.48	-60.76	1.69	11.46	H
									H
									H
									H
									H
	3782	-49.67	-13	-36.67	-74.78	-59.81	1.19	11.33	V
	5673	-36.74	-13	-23.74	-67.13	-47.07	1.48	11.81	V
	7564	-51.19	-13	-38.19	-84.62	-60.96	1.69	11.46	V
									V
									V
									V
									V

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

**LTE Band 38**

LTE Band 38 / 20MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	5142	-53.78	-25	-28.78	-83.77	-63.56	1.40	11.18	H
	7713	-50.63	-25	-25.63	-84.28	-60.24	1.72	11.33	H
	10284	-46.97	-25	-21.97	-84.56	-56.46	2.01	11.50	H
									H
									H
									H
									H
	5142	-53.79	-25	-28.79	-83.84	-63.57	1.40	11.18	V
	7713	-50.41	-25	-25.41	-84.2	-60.02	1.72	11.33	V
	10284	-47.53	-25	-22.53	-84.53	-57.02	2.01	11.50	V
									V
									V
									V
									V
Middle	5172	-54.01	-25	-29.01	-84.03	-63.84	1.41	11.24	H
	7758	-50.64	-25	-25.64	-84.35	-60.18	1.72	11.26	H
	10344	-47.28	-25	-22.28	-84.94	-56.77	2.01	11.50	H
									H
									H
									H
									H
	5172	-54.08	-25	-29.08	-84.18	-63.91	1.41	11.24	V
	7758	-50.57	-25	-25.57	-84.49	-60.11	1.72	11.26	V
	10344	-47.86	-25	-22.86	-84.94	-57.35	2.01	11.50	V
									V
									V
									V
									V



Highest	5202	-54.27	-25	-29.27	-84.32	-64.15	1.42	11.30	H
	7803	-50.49	-25	-25.49	-84.26	-59.96	1.73	11.20	H
	10404	-47.13	-25	-22.13	-84.85	-56.61	2.02	11.50	H
									H
									H
									H
									H
	5202	-53.72	-25	-28.72	-83.86	-63.60	1.42	11.30	V
	7803	-50.00	-25	-25.00	-84.04	-59.47	1.73	11.20	V
	10404	-47.78	-25	-22.78	-84.92	-57.26	2.02	11.50	V
									V
									V
									V
									V

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