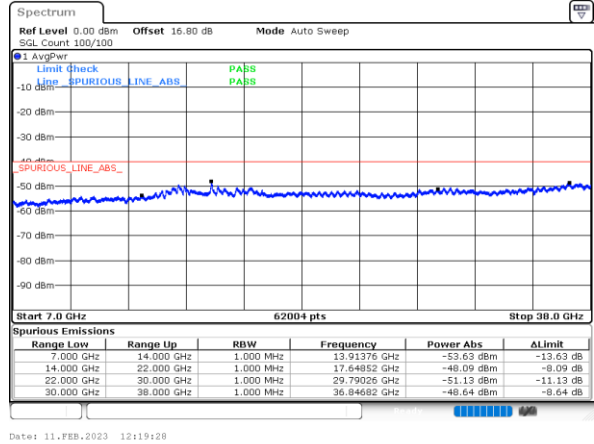
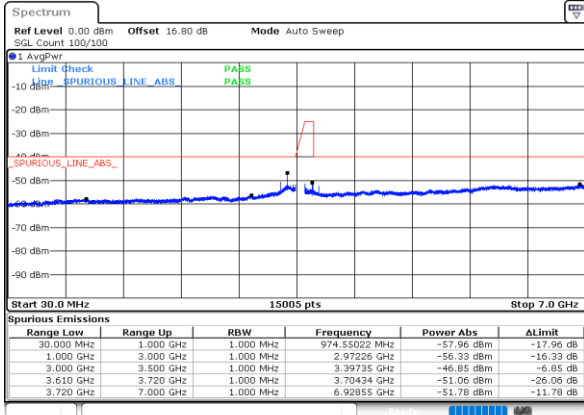


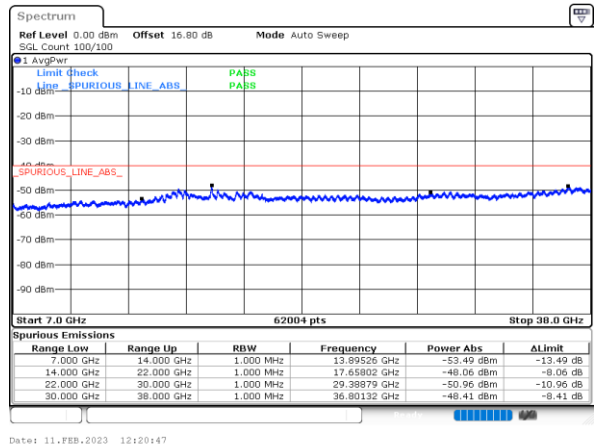
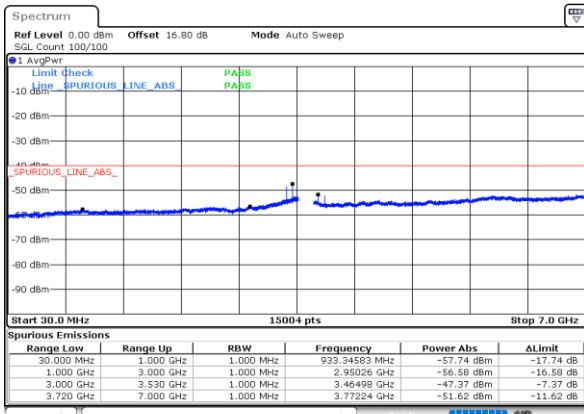


LTE Band 48 / 15MHz

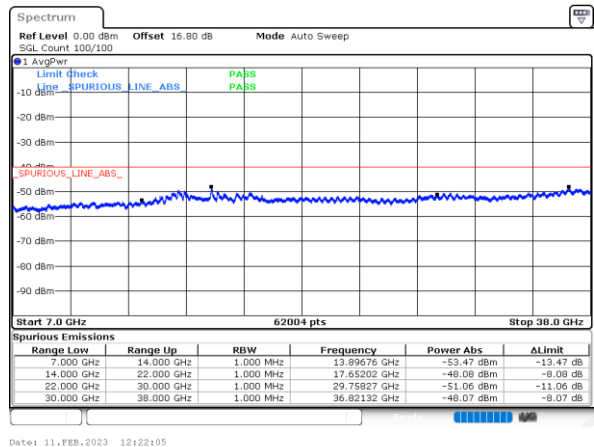
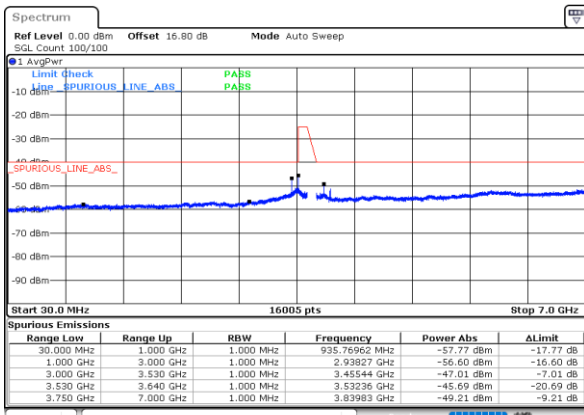
Lowest Channel / QPSK



Middle Channel / QPSK



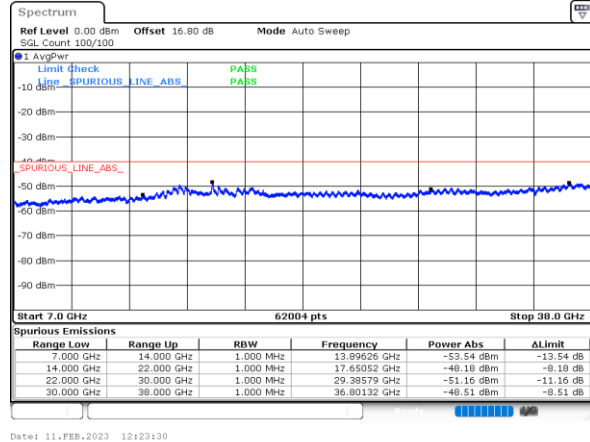
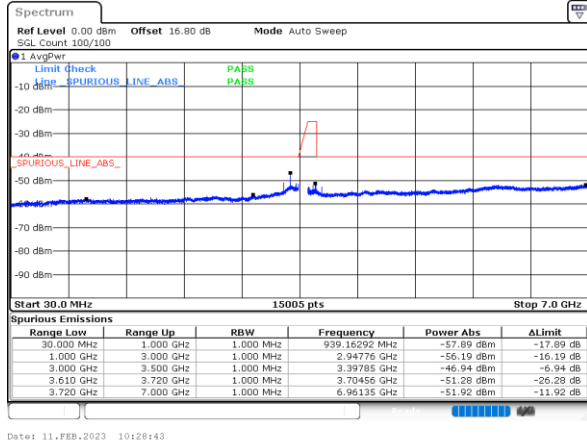
Highest Channel / QPSK



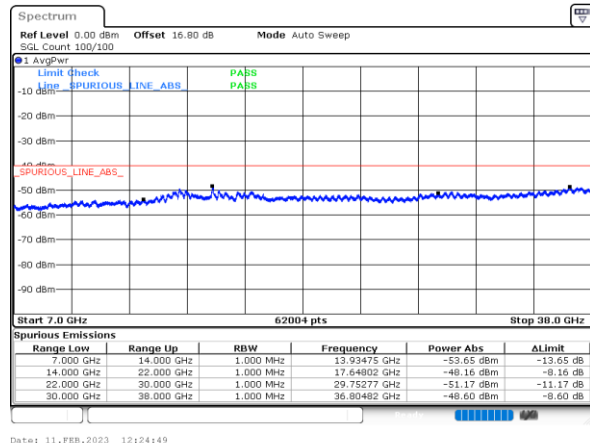
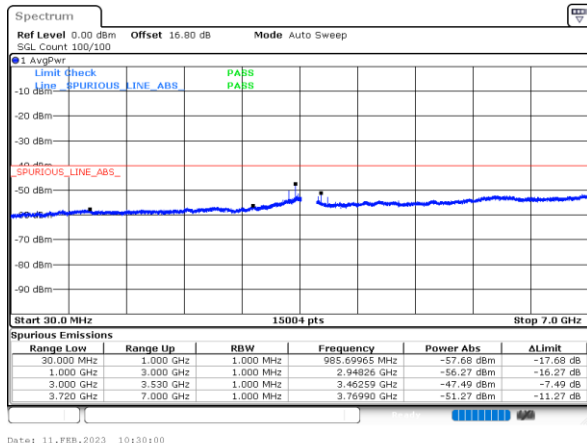


LTE Band 48 / 20MHz

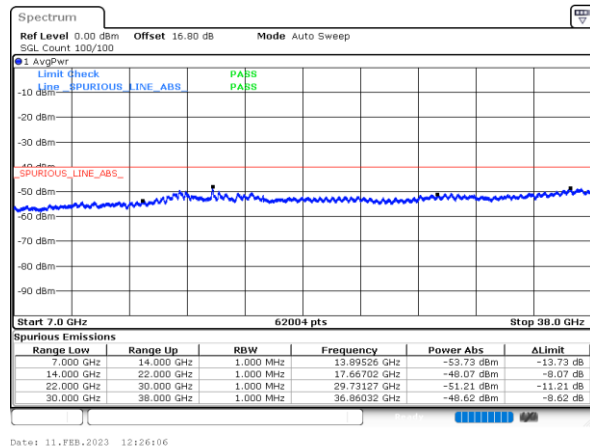
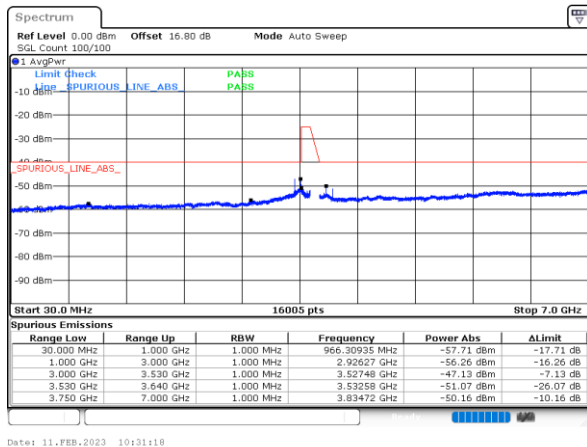
Lowest Channel / QPSK



Middle Channel / QPSK



Highest Channel / QPSK



Frequency Stability

Test Conditions		LTE Band 48 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0009	PASS
40	Normal Voltage	0.0002	
30	Normal Voltage	0.0032	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0001	
0	Normal Voltage	0.0035	
-10	Normal Voltage	0.0020	
-20	Normal Voltage	0.0006	
-30	Normal Voltage	0.0010	
20	Maximum Voltage	0.0009	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0035	

Note:

1. Normal Voltage = 3.89 V. ; Battery End Point (ACLRP) = 3.6 V. ; Maximum Voltage = 4.4 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



Appendix B. Test Results of Radiated Test

<Primary Antenna>

<Ant. 6>

LTE Band 48

LTE Band 48 / 20MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	7102	-56.21	-40	-16.21	-81.43	-65.11	1.88	10.79	H
	10653	-53.15	-40	-13.15	-80.91	-62.37	2.38	11.60	H
	14204	-51.90	-40	-11.90	-80.57	-60.83	3.08	12.01	H
	21300	-65.50	-40	-25.50	-78.52	-80.62	3.62	18.74	H
	24864	-61.92	-40	-21.92	-79.56	-77.04	3.89	19.01	H
	28406	-61.55	-40	-21.55	-80.5	-76.44	4.17	19.06	H
	7102	-55.95	-40	-15.95	-81.79	-64.85	1.88	10.79	V
	10653	-53.57	-40	-13.57	-80.65	-62.79	2.38	11.60	V
	14204	-52.63	-40	-12.63	-81.02	-61.56	3.08	12.01	V
	21300	-66.25	-40	-26.25	-78.94	-81.37	3.62	18.74	V
	24864	-62.30	-40	-22.30	-79.3	-77.42	3.89	19.01	V
	28406	-61.43	-40	-21.43	-80.4	-76.32	4.17	19.06	V
Middle	7232	-56.23	-40	-16.23	-81.77	-64.69	1.90	10.36	H
	10848	-53.32	-40	-13.32	-81.51	-62.67	2.39	11.74	H
	14464	-52.17	-40	-12.17	-80.55	-61.37	3.16	12.36	H
	28088	-67.42	-40	-27.42	-75.67	-82.33	4.28	19.19	H
	21696	-65.54	-40	-25.54	-78.39	-80.38	3.67	18.51	H
	25304	-61.92	-40	-21.92	-79.17	-76.96	3.95	18.99	H
	7232	-55.70	-40	-15.70	-81.81	-64.16	1.90	10.36	V
	10848	-53.78	-40	-13.78	-81.35	-63.13	2.39	11.74	V
	14464	-52.49	-40	-12.49	-80.93	-61.69	3.16	12.36	V
	28088	-67.21	-40	-27.21	-75.84	-82.12	4.28	19.19	V
	21696	-64.72	-40	-24.72	-78.06	-79.56	3.67	18.51	V
	25304	-61.83	-40	-21.83	-79.73	-76.87	3.95	18.99	V



Highest	7360	-56.09	-40	-16.09	-81.74	-64.83	1.92	10.66	H
	11044	-52.55	-40	-12.55	-81.06	-62.33	2.42	12.20	H
	14724	-52.13	-40	-12.13	-80.76	-61.67	3.21	12.75	H
	18396	-66.17	-40	-26.17	-75.58	-80.78	3.43	18.03	H
	22092	-65.59	-40	-25.59	-78.72	-80.70	3.72	18.84	H
	25766	-61.49	-40	-21.49	-79.41	-76.48	4.04	19.03	H
									H
	7360	-55.86	-40	-15.86	-81.95	-64.60	1.92	10.66	V
	11044	-53.42	-40	-13.42	-81.35	-63.20	2.42	12.20	V
	14724	-52.04	-40	-12.04	-80.85	-61.58	3.21	12.75	V
	18396	-66.94	-40	-26.94	-76.05	-81.55	3.43	18.03	V
	22092	-65.88	-40	-25.88	-78.74	-80.99	3.72	18.84	V
	25766	-62.42	-40	-22.42	-79.58	-77.41	4.04	19.03	V
									V

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



<ASDIV Antenna>

<Ant. 7>

LTE Band 48

LTE Band 48 / 20MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	7102	-56.67	-40	-16.67	-81.89	-65.57	1.88	10.79	H
	10653	-52.82	-40	-12.82	-80.58	-62.04	2.38	11.60	H
	14204	-52.20	-40	-12.20	-80.87	-61.13	3.08	12.01	H
	21300	-65.32	-40	-25.32	-78.54	-80.44	3.62	18.74	H
	24864	-62.21	-40	-22.21	-79.85	-77.33	3.89	19.01	H
	28406	-60.68	-40	-20.68	-80.63	-75.57	4.17	19.06	H
	7102	-55.94	-40	-15.94	-81.78	-64.84	1.88	10.79	V
	10653	-53.87	-40	-13.87	-80.95	-63.09	2.38	11.60	V
	14204	-52.32	-40	-12.32	-80.71	-61.25	3.08	12.01	V
	21300	-65.94	-40	-25.94	-78.63	-81.06	3.62	18.74	V
	24864	-62.63	-40	-22.63	-79.63	-77.75	3.89	19.01	V
	28406	-61.64	-40	-21.64	-80.61	-76.53	4.17	19.06	V
									V
Middle	7232	-56.01	-40	-16.01	-81.55	-64.47	1.90	10.36	H
	10848	-53.24	-40	-13.24	-81.43	-62.59	2.39	11.74	H
	14464	-51.94	-40	-11.94	-80.32	-61.14	3.16	12.36	H
	18088	-67.20	-40	-27.20	-75.83	-81.84	3.42	18.06	H
	21696	-65.23	-40	-25.23	-78.57	-80.07	3.67	18.51	H
	25304	-61.74	-40	-21.74	-79.64	-76.78	3.95	18.99	H
	7232	-55.57	-40	-15.57	-81.68	-64.03	1.90	10.36	V
	10848	-53.52	-40	-13.52	-81.09	-62.87	2.39	11.74	V
	14464	-52.13	-40	-12.13	-80.57	-61.33	3.16	12.36	V
	18088	-67.44	-40	-27.44	-75.69	-82.08	3.42	18.06	V
	21696	-65.33	-40	-25.33	-78.18	-80.17	3.67	18.51	V
	25304	-62.30	-40	-22.30	-79.55	-77.34	3.95	18.99	V
									V



Highest	7362	-56.08	-40	-16.08	-81.73	-64.83	1.92	10.67	H
	11044	-52.70	-40	-12.70	-81.21	-62.48	2.42	12.20	H
	14724	-52.59	-40	-12.59	-81.22	-62.13	3.21	12.75	H
	18396	-66.55	-40	-26.55	-75.96	-81.16	3.43	18.03	H
	22092	-65.18	-40	-25.18	-78.45	-80.29	3.72	18.84	H
	25766	-61.55	-40	-21.55	-79.47	-76.54	4.04	19.03	H
									H
	7362	-55.77	-40	-15.77	-81.86	-64.52	1.92	10.67	V
	11044	-53.23	-40	-13.23	-81.16	-63.01	2.42	12.20	V
	14724	-52.48	-40	-12.48	-81.29	-62.02	3.21	12.75	V
	18396	-67.07	-40	-27.07	-76.18	-81.68	3.43	18.03	V
	22092	-65.62	-40	-25.62	-78.48	-80.73	3.72	18.84	V
	25766	-62.05	-40	-22.05	-79.21	-77.04	4.04	19.03	V
									V

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

————THE END————