



Frequency Stability

Test Conditions		LTE Band 26 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	2.5ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0145	PASS
40	Normal Voltage	0.0021	
30	Normal Voltage	0.0142	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0125	
0	Normal Voltage	0.0027	
-10	Normal Voltage	0.0028	
-20	Normal Voltage	0.0147	
-30	Normal Voltage	0.0136	
20	Maximum Voltage	0.0005	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0031	

Note:

1. Normal Voltage = 3.95V ; Battery End Point (BEP) = 3.55 V. ; Maximum Voltage =4.35 V
2. Note: The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



Appendix B. Test Results of Radiated Test

LTE Band 26 / 1.4MHz / QPSK / RB Size 1 Offset 0									
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	1632	-59.22	-13	-46.22	-68.98	-61.03	0.97	4.93	H
	2440	-57.01	-13	-44.01	-70.05	-58.81	1.27	5.22	H
	3256	-57.77	-13	-44.77	-74.53	-61.02	1.53	6.93	H
	1632	-64.97	-13	-51.97	-72.85	-66.78	0.97	4.93	V
	2440	-58.35	-13	-45.35	-73.38	-60.15	1.27	5.22	V
	3256	-60.05	-13	-47.05	-75.66	-63.3	1.53	6.93	V
Middle	1640	-53.86	-13	-40.86	-63.53	-55.64	0.97	4.91	H
	2456	-61.73	-13	-48.73	-74.83	-63.57	1.28	5.27	H
	3280	-58.96	-13	-45.96	-75.5	-62.31	1.54	7.03	H
	1640	-61.03	-13	-48.03	-68.66	-62.81	0.97	4.91	V
	2456	-59.75	-13	-46.75	-74.79	-61.59	1.28	5.27	V
	3280	-60.30	-13	-47.30	-75.84	-63.65	1.54	7.03	V
Highest	1648	-52.36	-13	-39.36	-61.97	-54.12	0.98	4.89	H
	2472	-58.73	-13	-45.73	-71.81	-60.61	1.28	5.32	H
	3288	-56.82	-13	-43.82	-73.35	-60.2	1.54	7.07	H
	1648	-59.48	-13	-46.48	-67.16	-61.24	0.98	4.89	V
	2472	-59.24	-13	-46.24	-74.49	-61.12	1.28	5.32	V
	3296	-60.18	-13	-47.18	-75.65	-63.59	1.54	7.10	V

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



LTE Band 26 / 3MHz / QPSK / RB Size 1 Offset 0									
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	1632	-58.79	-13	-45.79	-68.53	-60.6	0.97	4.93	H
	2440	-57.33	-13	-44.33	-70.35	-59.13	1.27	5.22	H
	3256	-58.03	-13	-45.03	-74.76	-61.28	1.53	6.93	H
	1632	-64.33	-13	-51.33	-72.1	-66.14	0.97	4.93	V
	2440	-57.61	-13	-44.61	-72.6	-59.41	1.27	5.22	V
	3256	-60.01	-13	-47.01	-75.62	-63.26	1.53	6.93	V
Middle	1632	-55.06	-13	-42.06	-64.8	-56.87	0.97	4.93	H
	2456	-59.49	-13	-46.49	-72.51	-61.33	1.28	5.27	H
	3264	-58.93	-13	-45.93	-75.69	-62.21	1.53	6.96	H
	1632	-62.11	-13	-49.11	-69.87	-63.92	0.97	4.93	V
	2456	-59.71	-13	-46.71	-74.74	-61.55	1.28	5.27	V
	3264	-60.19	-13	-47.19	-75.8	-63.47	1.53	6.96	V
Highest	1640	-53.65	-13	-40.65	-63.25	-55.43	0.97	4.91	H
	2464	-57.78	-13	-44.78	-71.02	-59.64	1.28	5.29	H
	3288	-56.11	-13	-43.11	-72.61	-59.49	1.54	7.07	H
	1640	-60.50	-13	-47.50	-68.21	-62.28	0.97	4.91	V
	2464	-59.03	-13	-46.03	-74.14	-60.89	1.28	5.29	V
	3288	-58.93	-13	-45.93	-74.39	-62.31	1.54	7.07	V

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



LTE Band 26 / 5MHz / QPSK / RB Size 1 Offset 0									
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	1632	-58.57	-13	-45.57	-68.45	-60.38	0.97	4.93	H
	2440	-56.48	-13	-43.48	-69.56	-58.28	1.27	5.22	H
	3256	-58.50	-13	-45.50	-75.26	-61.75	1.53	6.93	H
	1632	-64.70	-13	-51.70	-72.53	-66.51	0.97	4.93	V
	2440	-57.91	-13	-44.91	-72.91	-59.71	1.27	5.22	V
	3256	-60.14	-13	-47.14	-75.72	-63.39	1.53	6.93	V
Middle	1632	-57.86	-13	-44.86	-67.72	-59.67	0.97	4.93	H
	2448	-55.07	-13	-42.07	-68.06	-56.89	1.27	5.24	H
	3264	-58.38	-13	-45.38	-75.12	-61.66	1.53	6.96	H
	1632	-63.18	-13	-50.18	-70.88	-64.99	0.97	4.93	V
	2448	-56.23	-13	-43.23	-71.22	-58.05	1.27	5.24	V
	3264	-60.46	-13	-47.46	-75.98	-63.74	1.53	6.96	V
Highest	1640	-53.44	-13	-40.44	-63.13	-55.22	0.97	4.91	H
	2456	-58.65	-13	-45.65	-71.73	-60.49	1.28	5.27	H
	3280	-57.85	-13	-44.85	-74.49	-61.2	1.54	7.03	H
	1640	-60.82	-13	-47.82	-68.52	-62.6	0.97	4.91	V
	2456	-59.45	-13	-46.45	-74.71	-61.29	1.28	5.27	V
	3280	-59.99	-13	-46.99	-75.42	-63.34	1.54	7.03	V

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

LTE Band 26 / 10MHz / QPSK / RB Size 1 Offset 0									
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)
Middle	1632	-58.14	-13	-45.14	-67.84	-59.95	0.97	4.93	H
	2448	-57.80	-13	-44.80	-70.72	-59.62	1.27	5.24	H
	3264	-59.44	-13	-46.44	-76.01	-62.72	1.53	6.96	H
	1632	-63.77	-13	-50.77	-71.58	-65.58	0.97	4.93	V
	2448	-59.50	-13	-46.50	-74.4	-61.32	1.27	5.24	V
	3264	-60.11	-13	-47.11	-75.72	-63.39	1.53	6.96	V

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