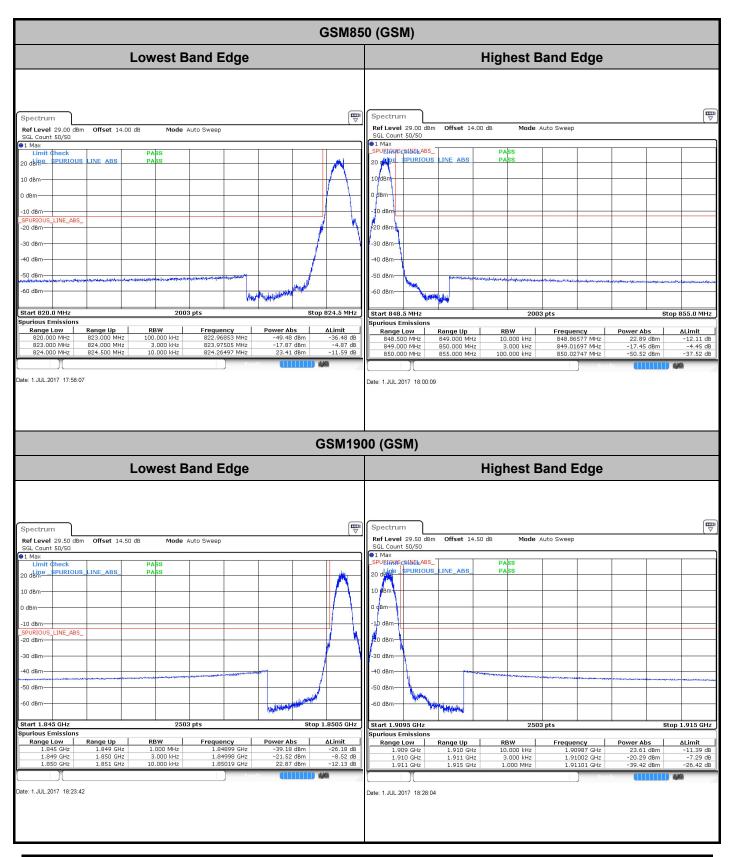


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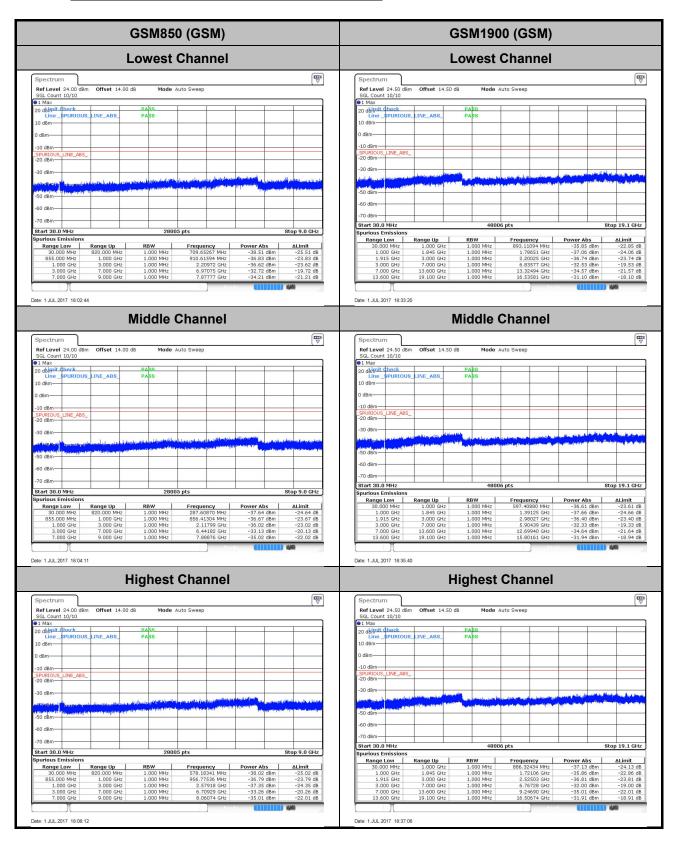
# **Conducted Band Edge**



SPORTON International (ShenZhen) INC.

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## **Conducted Spurious Emission**



SPORTON International (ShenZhen) INC.

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## Frequency Stability

Test Conditions	Middle Channel	GSM850 (GSM)		
Temperature (°C)	Voltage (Volt)	Deviation	on (ppm)	Result
50	Normal Voltage	0.0150	-	
40	Normal Voltage	0.0042	-	
30	Normal Voltage	0.0096	-	
20(Ref.)	Normal Voltage	0.0000	-	
10	Normal Voltage	0.0008	-	
0	Normal Voltage	0.0005	-	
-10	Normal Voltage	0.0113	-	PASS
-20	Normal Voltage	0.0076	-	
-30	Normal Voltage	0.0033	-	
20	Maximum Voltage	0.0004	-	
20	Normal Voltage	0.0000	-	
20	Battery End Point	0.0069	-	

Note: Normal Voltage = 3.7V. ; Battery End Point (BEP) = 3.4 V. ; Maximum Voltage =4.2 V

Test Conditions	Middle Channel		1900 SM)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation	on (ppm)	Result
50	Normal Voltage	0.0003	-	
40	Normal Voltage	0.0033	-	
30	Normal Voltage	0.0018	-	
20(Ref.)	Normal Voltage	0.0000	-	
10	Normal Voltage	0.0048	-	
0	Normal Voltage	0.0036	-	
-10	Normal Voltage	0.0020	-	PASS
-20	Normal Voltage	0.0063	-	
-30	Normal Voltage	0.0053	-	
20	Maximum Voltage	0.0057	-	
20	Normal Voltage	0.0000	-	
20	Battery End Point	0.0034	-	

#### Note:

- 1. Normal Voltage = 3.7V. ; Battery End Point (BEP) = 3.4 V. ; Maximum Voltage =4.2 V
- **2.** The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

SPORTON International (ShenZhen) INC.

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### **Appendix B. Test Results of Radiated Test**

### **Radiated Spurious Emission**

GSM850 (GSM)									
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	1672.8	-49.02	-13	-36.02	-56.80	-53.43	2.84	9.40	Н
	2509.2	-56.44	-13	-43.44	-66.86	-61.19	3.7	10.60	Н
	3345.6	-64.90	-13	-51.90	-79.66	-70.98	4.37	12.60	Н
	4182	-61.09	-13	-48.09	-78.66	-66.69	4.85	12.60	Н
	1672.8	-55.91	-13	-42.91	-60.62	-60.32	2.84	9.40	V
	2509.2	-62.64	-13	-49.64	-72.47	-67.39	3.70	10.60	V
	3345.6	-67.50	-13	-54.50	-81.07	-73.58	4.37	12.60	V
	4182	-63.89	-13	-50.89	-81.60	-69.49	4.85	12.60	V

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

GSM1900 (GSM)									
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)
Middle	3760	-39.06	-13	-26.06	-59.86	-46.81	4.85	12.60	Н
	5640	-45.80	-13	-32.80	-69.25	-53.32	5.58	13.10	Н
	7520	-52.93	-13	-39.93	-76.45	-57.67	6.56	11.30	Н
	9400	-52.17	-13	-39.17	-80.21	-56.60	7.47	11.90	Н
	11280	-41.12	-13	-28.12	-70.37	-45.55	7.47	11.90	Н
	3760	-38.75	-13	-25.75	-60.08	-46.50	4.85	12.6	V
	5640	-46.43	-13	-33.43	-70.48	-53.95	5.58	13.1	V
	7520	-51.91	-13	-38.91	-75.45	-56.65	6.56	11.3	V
	9400	-45.97	-13	-32.97	-73.72	-50.40	7.47	11.9	V
	11280	-27.47	-13	-14.47	-59.63	-32.37	8.3	13.2	V

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

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