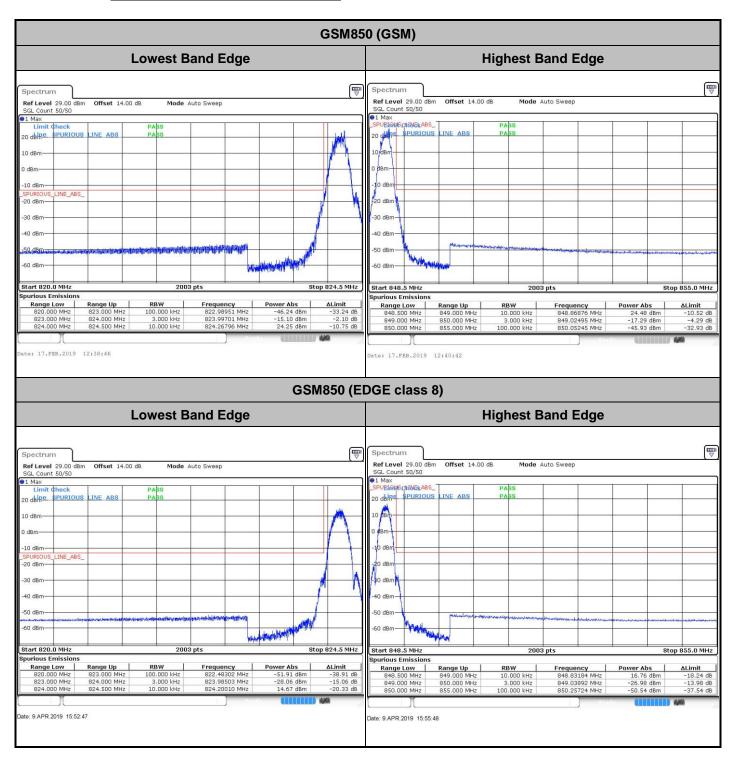
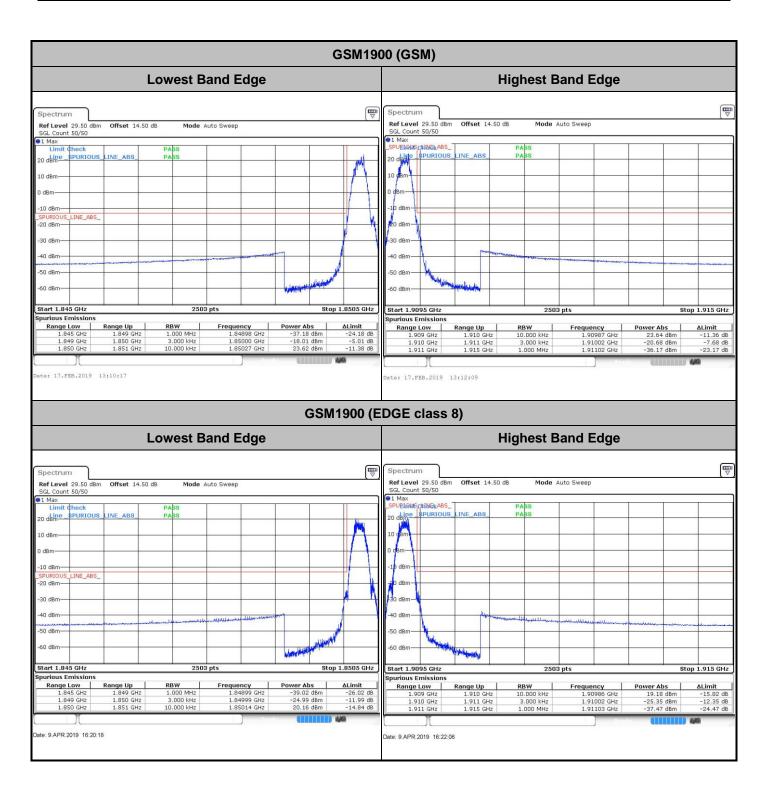
Conducted Band Edge



Sporton International (Shenzhen) Inc.

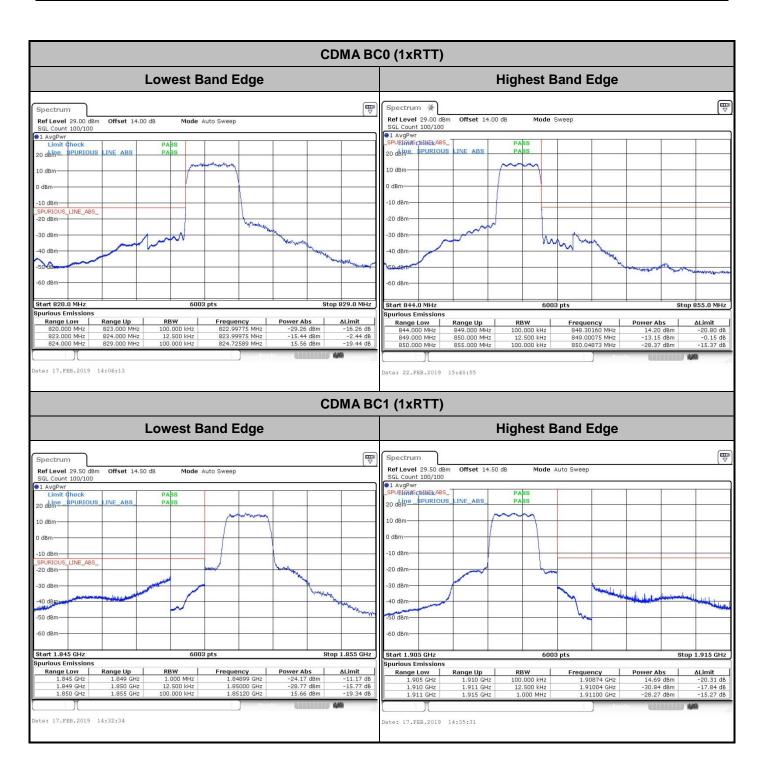
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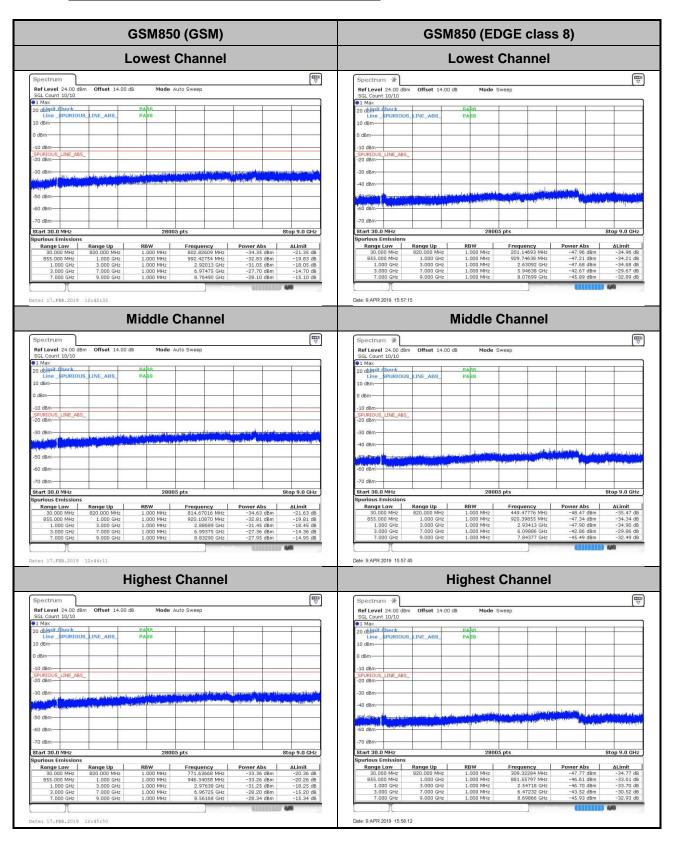
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Conducted Spurious Emission



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GSM1900 (GSM) GSM1900 (EDGE class 8) **Lowest Channel Lowest Channel** Mode Auto Sweep Ref Level 24.50 dBm Offset 14.50 dB Ref Level 24.50 SGL Count 10/10 dBm Offset 14.50 dB SGL Counce

1 Max
20 de mit Check
Line SPURIO _LINE_ABS_ -30 dBm Start 30.0 MHz Stop 19.1 GHz Stop 19.1 GHz Date: 17.FEB.2019 13:18:56 Date: 9.APR 2019 16:22:42 **Middle Channel Middle Channel** Spectrum *
Ref Level 24.50 dBm
SGL Count 10/10
1 Max LINE_ABS_ -30 dBm -40 dBm-Start 30.0 MH Stop 19.1 GHz Start 30.0 MHz 1.68939 GHz 2.54117 GHz 6.82727 GHz 12.19878 GHz 16.50870 GHz Date: 9.APR.2019 16:23:16 Date: 17.FEB.2019 13:20:44 **Highest Channel Highest Channel** SGL Count 10/10 91 Max IRIOUS LINE ABS 0 dBm-LINE_ABS_

Sporton International (Shenzhen) Inc.

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CDMA BC0 (1xRTT) CDMA BC1 (1xRTT) **Lowest Channel Lowest Channel** Ref Level 24.00 dBm Offset 14.00 dB SGL Count 10/10 Mode Auto Sweep Ref Level 24.50 SGL Count 10/10 dBm Offset 14.50 dB SGL Court

1 Max
20 description
20 d Start 30.0 MHz 48006 pts Stop 19.1 GHz Start 30.0 MHz Spurious Emissions Stop 9.0 GHz Date: 17.FEB.2019 14:11:18 Date: 17.FEB.2019 14:46:57 **Middle Channel Middle Channel** Ref Level 24.50 dBm SGL Count 10/10 50 dBm-60 dBm-Start 30.0 MHz Stop 19.1 GHz 1.73668 GHz 2.95722 GHz 6.98925 GHz 12.54101 GHz 17.02252 GHz Date: 17.FEB.2019 14:13:46 **Highest Channel Highest Channel** 0 dBm-_LINE_ABS_ Start 30.0 MHz

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Frequency Stability

Test Conditions	Middle Channel	GSM850 (GSM)	GSM850 (EDGE class 8)	Limit 2.5ppm
Temperature (°C)	Voltage (Volt)	Deviation	on (ppm)	Result
50	Normal Voltage	0.0012	0.0032	
40	Normal Voltage	0.0033	0.0045	
30	Normal Voltage	0.0005	0.0043	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0019	0.0037	
0	Normal Voltage	0.0008	0.0056	
-10	Normal Voltage	0.0026	0.0025	PASS
-20	Normal Voltage	0.0016	0.0038	
-30	Normal Voltage	0.0005	0.0034	
20	Maximum Voltage	0.0024	0.0028	
20	Normal Voltage	0.0000	0.0000	
20	Battery End Point	0.0030	0.0045	

Note: Normal Voltage = 3.85V. ; Battery End Point (BEP) = 3.5 V.; Maximum Voltage =4.4 V

Test Conditions	Middle Channel	GSM1900 (GSM)	GSM1900 (EDGE class 8)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviatio	on (ppm)	Result
50	Normal Voltage	0.0002	0.0012	
40	Normal Voltage	0.0017	0.0015	
30	Normal Voltage	0.0006	0.0022	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0013	0.0025	
0	Normal Voltage	0.0016	0.0013	
-10	Normal Voltage	0.0027	0.0031	PASS
-20	Normal Voltage	0.0034	0.0011	
-30	Normal Voltage	0.0019	0.0012	
20	Maximum Voltage	0.0028	0.0015	
20	Normal Voltage	0.0000	0.0000	
20	Battery End Point	0.0041	0.0008	

Note:

- 1. Normal Voltage = 3.85V. ; Battery End Point (BEP) = 3.5 V. ; Maximum Voltage =4.4 V
- **2.** The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

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Test Conditions	Middle Channel	CDMA BC0 (1xRTT)	Limit 2.5ppm
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0039	
40	Normal Voltage	0.0014	
30	Normal Voltage	0.0078	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0014	
0	Normal Voltage	0.0011	
-10	Normal Voltage	0.0021	PASS
-20	Normal Voltage	0.0074	
-30	Normal Voltage	0.0011	
20	Maximum Voltage	0.0113	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0007	

Note: Normal Voltage = 3.85V. ; Battery End Point (BEP) = 3.5 V.; Maximum Voltage =4.4 V

Test Conditions	Middle Channel	CDMA BC1 (1xRTT)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0030	
40	Normal Voltage	0.0098	
30	Normal Voltage	0.0023	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0055	
0	Normal Voltage	0.0113	
-10	Normal Voltage	0.0083	PASS
-20	Normal Voltage	0.0065	
-30	Normal Voltage	0.0002	
20	Maximum Voltage	0.0042	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0008	

Note:

- 1. Normal Voltage = 3.85V. ; Battery End Point (BEP) = 3.5 V. ; Maximum Voltage =4.4 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)	
	1672.8	-42.23	-13	-29.23	-52.20	-45.48	4.00	9.40	Н	
	2509.2	-45.50	-13	-32.50	-59.00	-49.07	4.88	10.60	Н	
Middle	3345.6	-58.64	-13	-45.64	-74.25	-63.57	5.52	12.60	Н	
Middle	1672.8	-42.46	-13	-29.46	-51.92	-45.71	4.00	9.40	V	
	2509.2	-46.74	-13	-33.74	-60.07	-50.31	4.88	10.60	V	
	3345.6	-59.72	-13	-46.72	-74.89	-64.65	5.52	12.60	V	

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

				GSM850 (E	DGE class 8	5)			
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)
	1672.8	-45.78	-13	-32.78	-55.75	-49.03	4.00	9.40	Н
	2512	-43.03	-13	-30.03	-56.53	-46.60	4.88	10.60	Н
	3345.6	-53.03	-13	-40.03	-68.64	-57.96	5.52	12.60	Н
Middle	4182	-54.65	-13	-41.65	-73.51	-59.12	6.00	12.62	Н
Middle	1672.8	-50.80	-13	-37.80	-60.26	-54.05	4.00	9.40	V
	2509.2	-45.43	-13	-32.43	-58.76	-49.00	4.88	10.60	V
	3345.6	-57.71	-13	-44.71	-72.88	-62.64	5.52	12.60	V
	4182	-58.10	-13	-45.10	-75.96	-62.57	6.00	12.62	V

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

Sporton International (Shenzhen) Inc.

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	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)	
	3760	-52.51	-13	-39.51	-70.46	-59.26	5.85	12.60	Н	
	5640	-58.31	-13	-45.31	-79.50	-64.11	7.30	13.10	Н	
Middle	7520	-54.29	-13	-41.29	-79.48	-57.44	8.35	11.50	Н	
Middle	3760	-46.15	-13	-33.15	-63.33	-52.90	5.85	12.60	V	
	5640	-58.65	-13	-45.65	-78.78	-64.45	7.30	13.10	V	
	7520	-55.07	-13	-42.07	-79.68	-58.22	8.35	11.50	V	

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

	GSM1900 (EDGE class 8)									
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)	
	3760	-50.50	-13	-37.50	-68.45	-57.25	5.85	12.60	Н	
	5640	-57.48	-13	-44.48	-78.67	-63.28	7.30	13.10	Н	
Middle	7520	-53.24	-13	-40.24	-78.43	-56.39	8.35	11.50	Н	
Middle	3760	-52.08	-13	-39.08	-69.26	-58.83	5.85	12.60	V	
	5640	-58.49	-13	-45.49	-78.62	-64.29	7.30	13.10	V	
	7520	-54.06	-13	-41.06	-78.67	-57.21	8.35	11.50	V	

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

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	CDMA BC0(1xRTT)									
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)	
	1673.04	-51.04	-13	-38.04	-61.01	-54.29	4.00	9.40	Н	
	2509.56	-62.30	-13	-49.30	-75.80	-65.87	4.88	10.60	Н	
Middle	3346.08	-62.28	-13	-49.28	-77.89	-67.21	5.52	12.60	Н	
Middle	1673.04	-59.08	-13	-46.08	-68.54	-62.33	4.00	9.40	V	
	2509.56	-62.42	-13	-49.42	-75.75	-65.99	4.88	10.60	V	
	3346.08	-62.44	-13	-49.44	-77.61	-67.37	5.52	12.60	V	

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

	CDMA BC1(1xRTT)									
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)	
	3760	-53.96	-13	-40.96	-71.91	-60.71	5.85	12.60	Н	
	5640	-55.03	-13	-42.03	-76.22	-60.83	7.30	13.10	Н	
Middle	7520	-54.23	-13	-41.23	-79.42	-57.38	8.35	11.50	Н	
Middle	3760	-55.06	-13	-42.06	-72.24	-61.81	5.85	12.60	V	
	5640	-55.15	-13	-42.15	-75.28	-60.95	7.30	13.10	V	
	7520	-54.76	-13	-41.76	-79.37	-57.91	8.35	11.50	V	

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

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