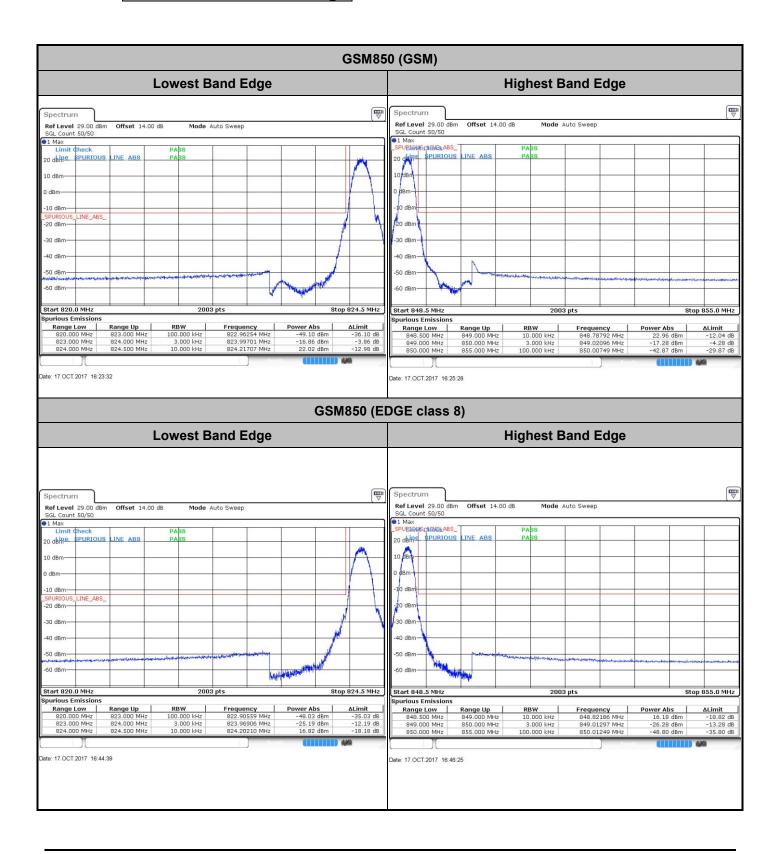
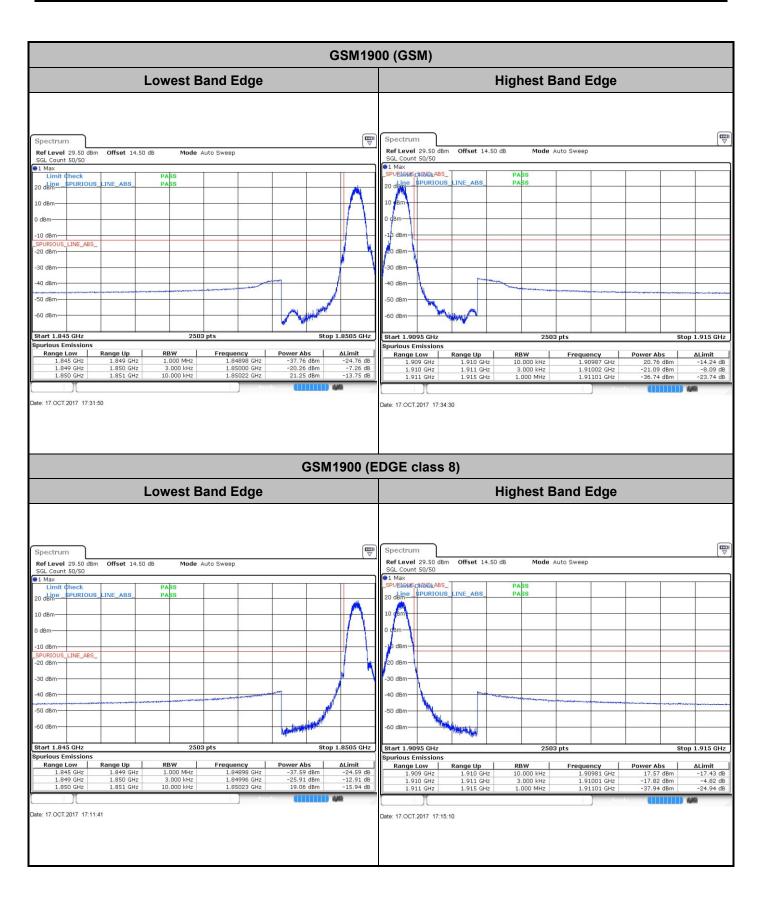
Conducted Band Edge



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Report Issued Date : Dec. 04, 2017
Report Version : Rev. 01

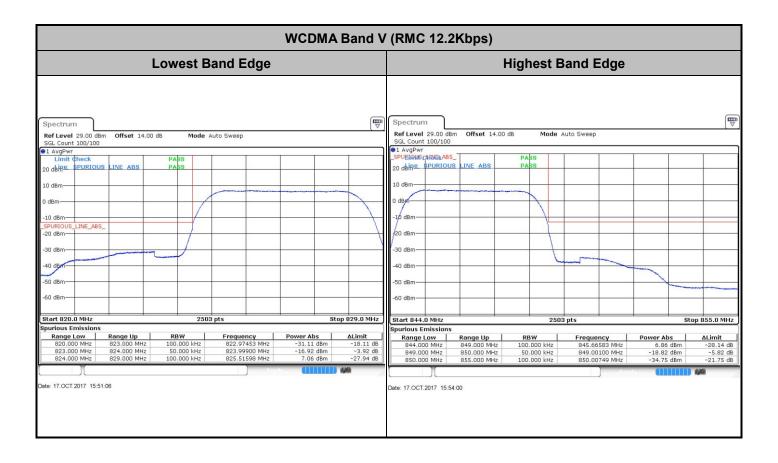
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TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: 2AFRUHY1-1713 Page Number : A18 of A27
Report Issued Date : Dec. 04, 2017
Report Version : Rev. 01

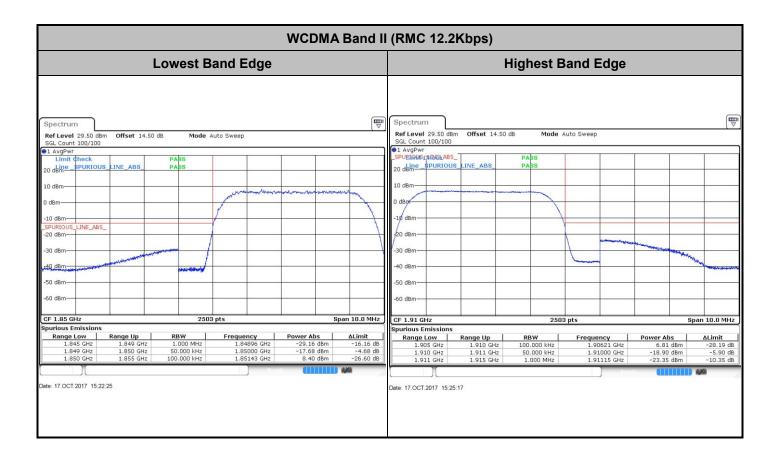
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Report Issued Date : Dec. 04, 2017
Report Version : Rev. 01

Report Template No.: BU5-FG22/24 Version 1.2

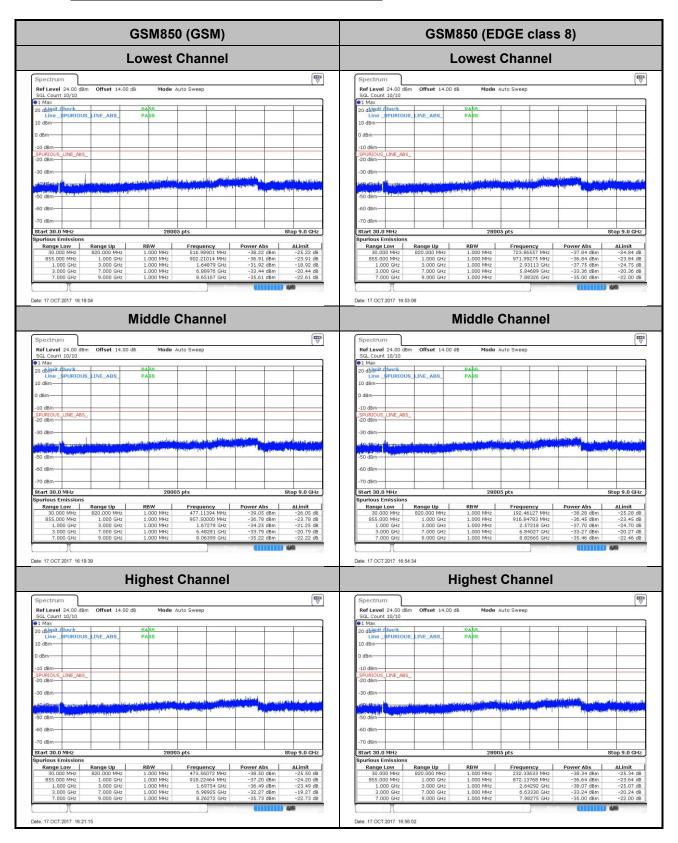


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Report Issued Date : Dec. 04, 2017
Report Version : Rev. 01

Report Template No.: BU5-FG22/24 Version 1.2

Conducted Spurious Emission



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Report Issued Date : Dec. 04, 2017
Report Version : Rev. 01

Report Template No.: BU5-FG22/24 Version 1.2

GSM1900 (GSM) GSM1900 (EDGE class 8) **Lowest Channel Lowest Channel □**□□ Mode Auto Sweep Ref Level 24.50 dBm SGL Count 10/10 Ref Level 24.50 dBm Offset 14.50 dB Offset 14.50 dB it check Start 30.0 MHz Stop 19.1 GHz Start 30.0 MHz Spurious Emiss 48006 pts Stop 19.1 GHz Date: 17.OCT.2017 17:24:10 Date: 17.OCT.2017 17:17:13 **Middle Channel Middle Channel** Start 30.0 MH Stop 19.1 GHz Start 30.0 MHz Stop 19.1 GHz 1.000 GHz 1.845 GHz 3.000 GHz 7.000 GHz 13.600 GHz 19.100 GHz Date: 17.OCT.2017 17:25:35 Date: 17.OCT.2017 17:19:21 **Highest Channel Highest Channel** SGL Count 10/10 nit dheck IRIOUS LINE ABS _LINE_ABS LINE_ABS Frequency 322.55122 MHz

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Report Issued Date : Dec. 04, 2017
Report Version : Rev. 01

Report Template No.: BU5-FG22/24 Version 1.2

WCDMA Band V (RMC 12.2Kbps) WCDMA Band II (RMC 12.2Kbps) **Lowest Channel Lowest Channel** Ref Level 24.50 dBm Offset 14.50 dB SGL Count 10/10 Ref Level 24.00 dBm Offset 14.00 dB it check Start 30.0 MHz 48006 pts Stop 19.1 GHz Start 30.0 MHz Spurious Emissions Range Low 30,000 MHz Range Up 820,000 MH; Date: 17.OCT.2017 16:03:52 Date: 17.OCT.2017 15:38:46 **Middle Channel Middle Channel** LINE_ABS Start 30.0 MHz Date: 17.OCT.2017 16:06:08 Date: 17.OCT.2017 15:40:09 **Highest Channel Highest Channel** SGL Count 10/10 nit dheck dBm-LINE_ABS Start 30.0 MH Stop 9.0 GHz

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Report Issued Date : Dec. 04, 2017
Report Version : Rev. 01

Report No.: FG7O1303A

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	0.0036	0.0263	
40	Normal Voltage	0.0012	0.0239	
30	Normal Voltage	0.0036	0.0215	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0203	0.0012	
0	Normal Voltage	0.0036	0.0227	
-10	Normal Voltage	0.0048	0.0048	PASS
-20	Normal Voltage	0.0203	0.0263	
-30	Normal Voltage	0.0215	0.0036	
20	Maximum Voltage	0.0024	0.0227	
20	Normal Voltage	0.0000	0.0000	
20	Battery End Point	0.0036	0.0203	

Note:

- 1. Normal Voltage = 3.85V. ; Battery End Point (BEP) = 3.5 V.; Maximum Voltage =4.35 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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Report Issued Date : Dec. 04, 2017
Report Version : Rev. 01

Report No.: FG7O1303A

Test Conditions	Middle Channel	GSM1900 (GSM)	GSM1900 (EDGE class 8)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation	on (ppm)	Result
50	Normal Voltage	0.0027	0.0011	
40	Normal Voltage	0.0176	0.0117	
30	Normal Voltage	0.0021	0.0011	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0032	0.0021	
0	Normal Voltage	0.0048	0.0016	
-10	Normal Voltage	0.0037	0.0037	PASS
-20	Normal Voltage	0.0149	0.0122	
-30	Normal Voltage	0.0048	0.0032	
20	Maximum Voltage	0.0032	0.0011	
20	Normal Voltage	0.0000	0.0000	
20	Battery End Point	0.0176	0.0133	

Note:

- 1. Normal Voltage = 3.85V. ; Battery End Point (BEP) = 3.5 V. ; Maximum Voltage =4.35 V
- **2.** The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

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TEL: +86-755-8637-9589

Page Number : A25 of A27
Report Issued Date : Dec. 04, 2017
Report Version : Rev. 01

Report No.: FG7O1303A

Test Conditions	Middle Channel	WCDMA Band V (RMC 12.2Kbps)	Limit 2.5ppm
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0096	
40	Normal Voltage	0.0120	
30	Normal Voltage	0.0143	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0000	
0	Normal Voltage	0.0072	
-10	Normal Voltage	0.0132	PASS
-20	Normal Voltage	0.0000	
-30	Normal Voltage	0.0084	
20	Maximum Voltage	0.0072	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0108	

Note:

- 1. Normal Voltage = 3.85V. ; Battery End Point (BEP) = 3.5 V.; Maximum Voltage =4.35 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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TEL: +86-755-8637-9589

Page Number : A26 of A27
Report Issued Date : Dec. 04, 2017
Report Version : Rev. 01

Report No.: FG7O1303A

Test Conditions	Middle Channel	WCDMA Band II (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0005	
40	Normal Voltage	0.0069	
30	Normal Voltage	0.0011	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0016	
0	Normal Voltage	0.0021	
-10	Normal Voltage	0.0069	PASS
-20	Normal Voltage	0.0011	
-30	Normal Voltage	0.0011	
20	Maximum Voltage	0.0021	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0064	

Note:

- 1. Normal Voltage = 3.85V. ; Battery End Point (BEP) = 3.5 V. ; Maximum Voltage =4.35 V
- **2.** The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

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TEL: +86-755-8637-9589

Page Number : A27 of A27
Report Issued Date : Dec. 04, 2017
Report Version : Rev. 01

Report No.: FG7O1303A

Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

Test Result for SIM1 with Sample 1

	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	-54.55	-13	-41.55	-60.11	-58.96	2.84	9.40	Н			
	2509.2	-51.71	-13	-38.71	-62.19	-56.46	3.7	10.60	Н			
N 40: -1 -11 -	3345.6	-56.62	-13	-43.62	-71.38	-62.70	4.37	12.60	Н			
Middle	1672.8	-68.84	-13	-55.84	-73.55	-73.25	2.84	9.40	V			
	2509.2	-64.43	-13	-51.43	-74.26	-69.18	3.70	10.60	V			
	3345.6	-64.43	-13	-51.43	-76.87	-70.51	4.37	12.60	V			

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

	EDGE 850 (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	-53.48	-13	-40.48	-59.25	-57.89	2.84	9.40	Н			
	2509.2	-54.31	-13	-41.31	-64.73	-59.06	3.7	10.60	Н			
Middle	3345.6	-56.66	-13	-43.66	-71.42	-62.74	4.37	12.60	Н			
Middle	1672.8	-67.29	-13	-54.29	-72.00	-71.70	2.84	9.40	V			
	2509.2	-63.13	-13	-50.13	-72.96	-67.88	3.70	10.60	V			
	3345.6	-62.80	-13	-49.80	-76.37	-68.88	4.37	12.60	V			

Sporton International (Shenzhen) Inc.

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Report No.: FG7O1303A

	WCDMA Band V (RMC 12.2Kbps)											
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	-70.29	-13	-57.29	-75.85	-74.70	2.84	9.40	Н			
	2509.2	-62.56	-13	-49.56	-72.98	-67.31	3.7	10.60	Н			
Middle	3345.6	-65.30	-13	-52.30	-80.06	-71.38	4.37	12.60	Н			
Middle	1672.8	-71.63	-13	-58.63	-76.34	-76.04	2.84	9.40	V			
	2509.2	-68.35	-13	-55.35	-78.18	-73.10	3.70	10.60	V			
	3345.6	-66.88	-13	-53.88	-80.45	-72.96	4.37	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)			
	3760	-58.76	-13	-45.76	-78.37	-66.51	4.85	12.60	Н			
	5640	-57.62	-13	-44.62	-81.07	-65.14	5.58	13.10	Н			
Middle	7520	-59.72	-13	-46.72	-83.24	-64.46	6.56	11.30	Н			
Middle	3760	-61.05	-13	-48.05	-81.44	-68.80	4.85	12.6	V			
	5640	-59.59	-13	-46.59	-83.64	-67.11	5.58	13.1	V			
	7520	-60.00	-13	-47.00	-83.54	-64.74	6.56	11.3	V			

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

	EDGE1900 (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	-61.76	-13	-48.76	-81.37	-69.51	4.85	12.60	Н		
	5640	-59.76	-13	-46.76	-83.21	-67.28	5.58	13.10	Н		
Middle	7520	-59.87	-13	-46.87	-83.39	-64.61	6.56	11.30	Н		
Middle	3760	-60.72	-13	-47.72	-81.11	-68.47	4.85	12.6	V		
	5640	-59.45	-13	-46.45	-83.5	-66.97	5.58	13.1	V		
	7520	-59.91	-13	-46.91	-83.45	-64.65	6.56	11.3	V		

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Report Issued Date : Dec. 04, 2017
Report Version : Rev. 01
Report Template No.: BU5-FG22/24 Version 1.2

	WCDMA Band II (RMC 12.2Kbps)											
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	-61.79	-13	-48.79	-81.40	-69.54	4.85	12.60	Н			
	5640	-60.12	-13	-47.12	-83.57	-67.64	5.58	13.10	Н			
Middle	7520	-59.92	-13	-46.92	-83.44	-64.66	6.56	11.30	Н			
ivildale	3760	-61.01	-13	-48.01	-81.4	-68.76	4.85	12.6	V			
	5640	-59.51	-13	-46.51	-83.56	-67.03	5.58	13.1	V			
	7520	-59.92	-13	-46.92	-83.46	-64.66	6.56	11.3	V			

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

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Report Issued Date : Dec. 04, 2017
Report Version : Rev. 01

Report No.: FG7O1303A

Test Result for SIM2 with Sample 1

	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	-53.91	-13	-40.91	-59.51	-58.32	2.84	9.40	Н			
	2509.2	-47.10	-13	-34.10	-59.79	-51.85	3.7	10.60	Н			
Middle	3345.6	-56.57	-13	-43.57	-71.33	-62.65	4.37	12.60	Н			
Middle	1672.8	-67.25	-13	-54.25	-71.96	-71.66	2.84	9.40	V			
	2509.2	-68.49	-13	-55.49	-78.32	-73.24	3.70	10.60	V			
	3345.6	-65.52	-13	-52.52	-79.09	-71.60	4.37	12.60	V			

	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	-61.48	-13	-48.48	-81.09	-69.23	4.85	12.60	Н			
	5640	-59.70	-13	-46.70	-83.15	-67.22	5.58	13.10	Н			
Middle	7520	-59.85	-13	-46.85	-83.37	-64.59	6.56	11.30	Н			
Middle	3760	-60.92	-13	-47.92	-81.31	-68.67	4.85	12.6	V			
	5640	-59.54	-13	-46.54	-83.59	-67.06	5.58	13.1	V			
	7520	-59.95	-13	-46.95	-83.49	-64.69	6.56	11.3	V			

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

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TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: 2AFRUHY1-1713 Page Number : B4 of B5
Report Issued Date : Dec. 04, 2017
Report Version : Rev. 01

Report No.: FG7O1303A

Test Result for SIM2 with Sample 2

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	-68.62	-13	-55.62	-74.18	-73.03	2.84	9.40	Н		
	2509.2	-58.61	-13	-45.61	-69.03	-63.36	3.7	10.60	Н		
	3345.6	-62.88	-13	-49.88	-77.64	-68.96	4.37	12.60	Н		
	1672.8	-69.74	-13	-56.74	-74.45	-74.15	2.84	9.40	V		
	2509.2	-64.96	-13	-51.96	-74.79	-69.71	3.70	10.60	V		
	3345.6	-64.14	-13	-51.14	-77.71	-70.22	4.37	12.60	V		

Test Result for SIM1 with Sample 2

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	-61.92	-13	-48.92	-81.53	-69.67	4.85	12.60	Н		
	5640	-59.33	-13	-46.33	-82.78	-66.85	5.58	13.10	Н		
	7520	-60.39	-13	-47.39	-83.91	-65.13	6.56	11.30	Н		
	3760	-61.27	-13	-48.27	-81.66	-69.02	4.85	12.6	V		
	5640	-58.77	-13	-45.77	-82.82	-66.29	5.58	13.1	V		
	7520	-60.52	-13	-47.52	-84.06	-65.26	6.56	11.3	V		

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

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Report Issued Date : Dec. 04, 2017
Report Version : Rev. 01

Report Template No.: BU5-FG22/24 Version 1.2

Appendix D. Product Equality Declaration

Sporton International (Shenzhen) Inc.

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: 2AFRUHY1-1713 Page Number : D1 of D1
Report Issued Date : Dec. 04, 2017
Report Version : Rev. 01

Report Template No.: BU5-FG22/24 Version 1.2

ShenZhen Chenyee Technology Co., Ltd.

32F, Tower A, East Pacific International Center, No.7888, Shennan Avenue, Futian District, Shenzhen-518040, China

Tel: 86-0755-23949253 ; Fax: +86-0755-82792995

Date: December 1, 2017

Product Equality Declaration

We, ShenZhen Chenyee Technology Co., Ltd., declare on our sole responsibility for the product change of Model Name: HY1-1713 as below:

- 1. HW version changed from Founder to Red board.
 - Changed description:
- ◆ Changed some components for WCDMA B2, such as capacitance, resistance, but do not affect the RF characteristics.
- ◆ Antenna (Changed matching for WCDMA B2.)
- **2.** Additional supplier for PCB Board. Except for the above of changed and no modification is performed.

All of these changes listed above have been applied to the samples used for lab tests.

Sincerely yours,

Signature

Sophia on behalf of

ShenZhen Chenyee Technology Co., Ltd.