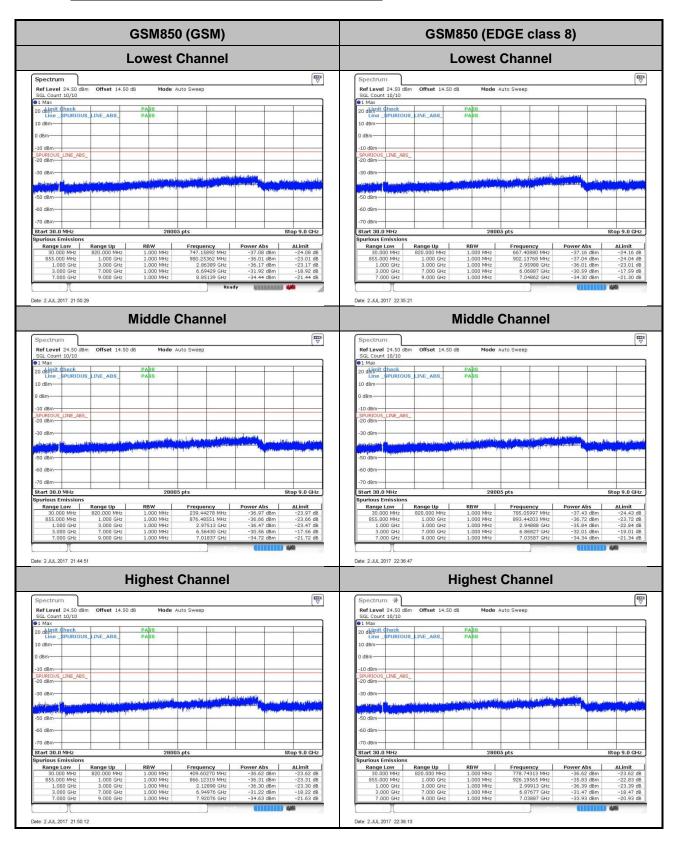


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Conducted Spurious Emission



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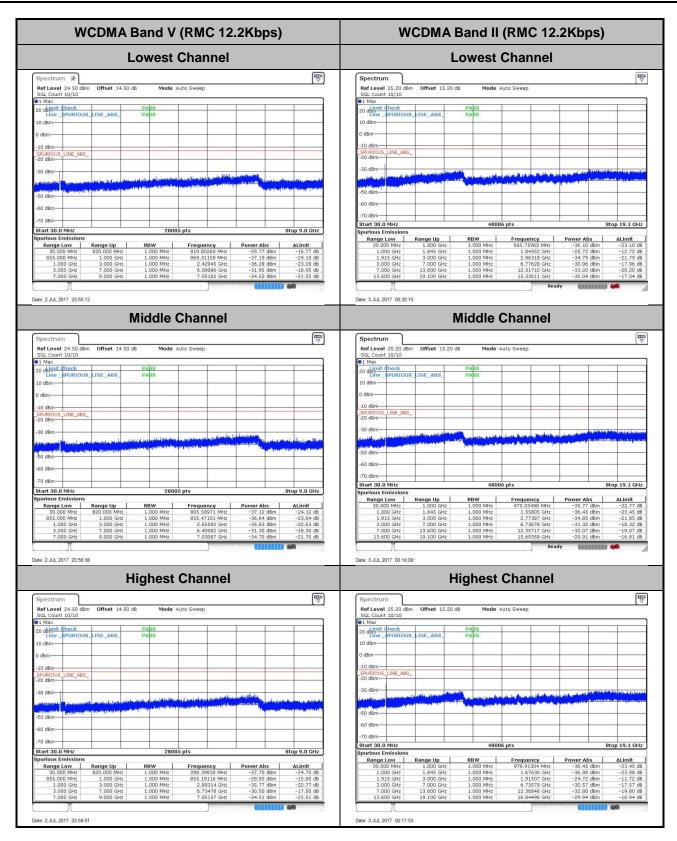
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GSM1900 (GSM) GSM1900 (EDGE class 8) **Lowest Channel Lowest Channel ₩ _** Ref Level 25.20 dBm Offset 15.20 dB SGL Count 10/10 1 Max Ref Level 25.20 dBm Offset 15.20 dB 20 demit Check 20 dem check Line_spurious_LINE_ABS 48006 pts Start 30.0 MHz 48006 pts Stop 19.1 GHz Start 30.0 MHz Stop 19.1 GHz Range Low Frequency 620.19240 MHz Range Low 30,000 MHz Date: 2.JUL.2017 23:02:27 Date: 2.JUL.2017 23:28:24 **Middle Channel Middle Channel** 20 demit Check Line SPURIOUS_LINE_ABS Start 30.0 MH Stop 19.1 GHz Start 30.0 MHz Date: 2.JUL.2017 23:03:51 Date: 2.JUL.2017 23:29:40 **Highest Channel Highest Channel** Ref Level 25.20 SGL Count 10/10 20 dem spurious_LINE_ABS 20 dsm _spurious_Line_abs Range Low ΔLimit -99.89 dB Range Low 30.000 MHz
 Frequency
 Power Abs

 987.63868 MHz
 -36.35 dBn

 Frequency
 Power Abs

 734.59520 MHz
 -35.89 dBm



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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	0.0048	0.0263	
40	Normal Voltage	0.0132	0.0048	
30	Normal Voltage	0.0036	0.0048	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0096	0.0024	
0	Normal Voltage	0.0024	0.0084	
-10	Normal Voltage	0.0084	0.0215	PASS
-20	Normal Voltage	0.0120	0.0060	
-30	Normal Voltage	0.0024	0.0143	
20	Maximum Voltage	0.0143	0.0012	
20	Normal Voltage	0.0084	0.0167	
20	Battery End Point	0.0179	0.0155	

Note: Normal Voltage = 3.82V. ; Battery End Point (BEP) = 3.65V. ; Maximum Voltage = 4.4 V

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Test Conditions	Middle Channel	GSM1900 (GSM)	GSM1900 (EDGE class 8)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation	on (ppm)	Result
50	Normal Voltage	0.0106	0.0037	
40	Normal Voltage	0.0117	0.0048	
30	Normal Voltage	0.0128	0.0011	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0096	0.0122	
0	Normal Voltage	0.0037	0.0005	
-10	Normal Voltage	0.0021	0.0011	PASS
-20	Normal Voltage	0.0032	0.0027	
-30	Normal Voltage	0.0085	0.0096	
20	Maximum Voltage	0.0011	0.0021	
20	Normal Voltage	0.0133	0.0090	
20	Battery End Point	0.0080	0.0170	

Note:

- 1. Normal Voltage = 3.82V. ; Battery End Point (BEP) = 3.65V. ; Maximum Voltage = 4.4 V
- **2.** The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

Test Conditions	Middle Channel	WCDMA Band V (RMC 12.2KbpsRMC 12.2Kbps)	Limit 2.5ppm
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0024	
40	Normal Voltage	0.0167	
30	Normal Voltage	0.0072	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0012	
0	Normal Voltage	0.0048	
-10	Normal Voltage	0.0227	PASS
-20	Normal Voltage	0.0275	
-30	Normal Voltage	0.0072	
20	Maximum Voltage	0.0251	
20	Normal Voltage	0.0048	
20	Battery End Point	0.0215	

Note: Normal Voltage = 3.82V. ; Battery End Point (BEP) = 3.65V. ; Maximum Voltage = 4.4 V

Sporton International (KunShan) INC.

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Test Conditions	Middle Channel	WCDMA Band II (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0048	
40	Normal Voltage	0.0101	
30	Normal Voltage	0.0112	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0170	
0	Normal Voltage	0.0138	
-10	Normal Voltage	0.0021	PASS
-20	Normal Voltage	0.0005	
-30	Normal Voltage	0.0133	
20	Maximum Voltage	0.0011	
20	Normal Voltage	0.0005	
20	Battery End Point	0.0032	

Note:

- 1. Normal Voltage = 3.82V. ; Battery End Point (BEP) = 3.65V. ; Maximum Voltage =4.4V
- **2.** The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

Sporton International (KunShan) INC.

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Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

				GSM85	60 (GSM)				
Channel	Frequenc y (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarizatio n (H/V)
	1672	-21.08	-13	-8.08	-26.45	-25.45	2.88	9.40	Н
	2510	-26.83	-13	-13.83	-38.00	-32.78	2.5	10.60	Н
	3345.6	-41.09	-13	-28.09	-50.48	-46.91	4.63	12.60	Н
	4182	-48.90	-13	-35.90	-60.98	-54.33	5.02	12.60	Н
Middle	5018	-53.28	-13	-40.28	-67.96	-57.58	6.25	12.70	Н
Middle	1672	-18.67	-13	-5.67	-23.76	-23.04	2.88	9.40	V
	2510	-26.66	-13	-13.66	-37.51	-32.61	2.50	10.60	V
	3345.6	-45.56	-13	-32.56	-54.82	-51.38	4.63	12.60	V
	4182	-51.76	-13	-38.76	-63.72	-57.19	5.02	12.60	V
	5018	-55.45	-13	-42.45	-69.27	-59.75	6.25	12.70	V

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

				GSM850 (E	DGE class	8)			
Channel	Frequenc y (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarizatio n (H/V)
	1672	-36.10	-13	-23.10	-41.50	-40.47	2.88	9.40	Н
	2510	-43.82	-13	-30.82	-53.16	-49.77	2.5	10.60	Н
	3346	-53.42	-13	-40.42	-61.42	-59.24	4.63	12.60	Н
	4182	-52.89	-13	-39.89	-64.97	-58.32	5.02	12.60	Н
Middle	5018	-62.83	-13	-49.83	-77.51	-67.13	6.25	12.70	Н
Middle	1672	-33.39	-13	-20.39	-38.76	-37.76	2.88	9.40	V
	2510	-40.15	-13	-27.15	-50.18	-46.10	2.50	10.60	V
	3346	-56.13	-13	-43.13	-64.16	-61.95	4.63	12.60	V
	4182	-55.39	-13	-42.39	-67.35	-60.82	5.02	12.60	V
	5018	-60.70	-13	-47.70	-74.52	-65.00	6.25	12.70	V

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

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	GSM1900 (GSM)										
Channel	Frequenc y (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarizatio n (H/V)		
	3760	-60.55	-13	-47.55	-74.17	-68.13	5.02	12.60	Н		
	5640	-60.10	-13	-47.10	-76.70	-65.90	7.3	13.10	Н		
Middle	7520	-58.84	-13	-45.84	-78.82	-62.41	7.73	11.30	Н		
Middle	3760	-61.36	-13	-48.36	-75.69	-68.94	5.02	12.60	V		
	5640	-57.58	-13	-44.58	-74.11	-63.38	7.3	13.10	V		
	7520	-59.46	-13	-46.46	-79.1	-63.03	7.73	11.30	V		

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

	GSM1900 (EDGE class 8)										
Channel	Frequenc y (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarizatio n (H/V)		
	3760	-60.15	-13	-47.15	-73.77	-67.73	5.02	12.60	Н		
	5640	-60.53	-13	-47.53	-77.13	-66.33	7.3	13.10	Н		
Middle	7520	-59.01	-13	-46.01	-78.99	-62.58	7.73	11.30	Н		
Middle	3760	-62.08	-13	-49.08	-76.41	-69.66	5.02	12.60	V		
	5640	-58.38	-13	-45.38	-74.91	-64.18	7.3	13.10	V		
	7520	-59.49	-13	-46.49	-79.13	-63.06	7.73	11.30	V		

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

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	WCDMA Band V(RMC 12.2Kbps)										
Channel	Frequenc y (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarizatio n (H/V)		
	1672	-41.54	-13	-28.54	-46.55	-45.91	2.88	9.40	Н		
	2510	-59.34	-13	-46.34	-65.40	-65.29	2.5	10.60	Н		
	3346	-61.34	-13	-48.34	-69.34	-67.16	4.63	12.60	Н		
N 41 -1 -11 -	4182	-61.41	-13	-48.41	-73.49	-66.84	5.02	12.60	Н		
Middle	1672	-37.29	-13	-24.29	-42.43	-41.66	2.88	9.40	V		
	2510	-58.87	-13	-45.87	-64.82	-64.82	2.50	10.60	V		
	3346	-62.58	-13	-49.58	-70.61	-68.40	4.63	12.60	V		
	4182	-64.15	-13	-51.15	-76.11	-69.58	5.02	12.60	V		

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

	WCDMA Band II(RMC 12.2Kbps)										
Channel	Frequenc y (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarizatio n (H/V)		
	3760	-53.21	-13	-40.21	-66.83	-60.79	5.02	12.60	Н		
	5640	-62.24	-13	-49.24	-78.84	-68.04	7.3	13.10	Н		
Middle	7520	-59.05	-13	-46.05	-79.03	-62.62	7.73	11.30	Н		
ivildale	3760	-54.21	-13	-41.21	-68.54	-61.79	5.02	12.60	V		
	5640	-61.96	-13	-48.96	-78.49	-67.76	7.3	13.10	V		
	7520	-59.16	-13	-46.16	-78.8	-62.73	7.73	11.30	V		

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

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Appendix C. Test Setup Photographs

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