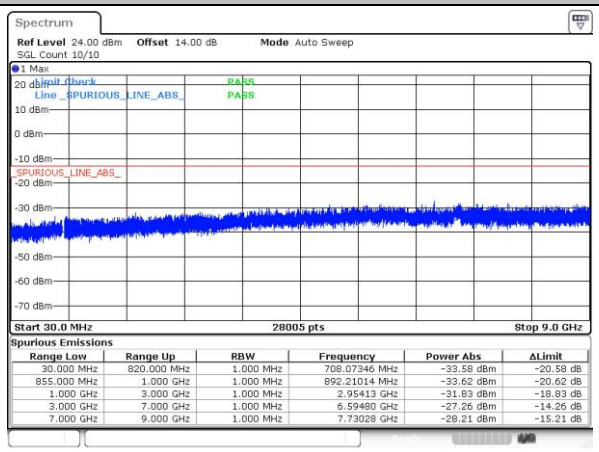
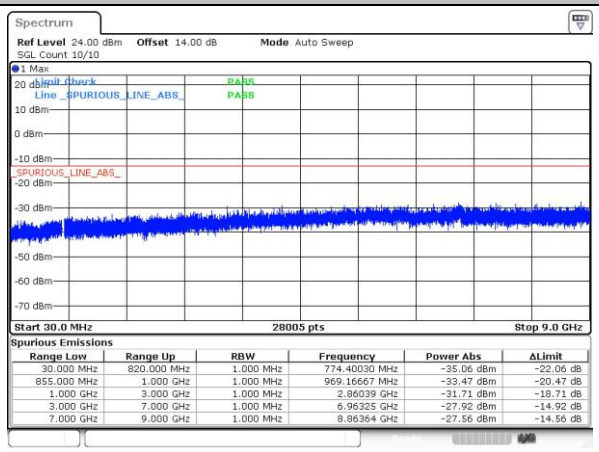
Conducted Spurious Emission

GSM850 (GSM)

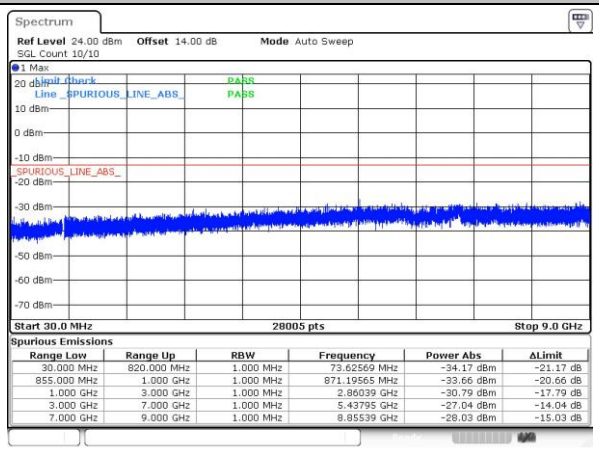
Lowest Channel



Middle Channel

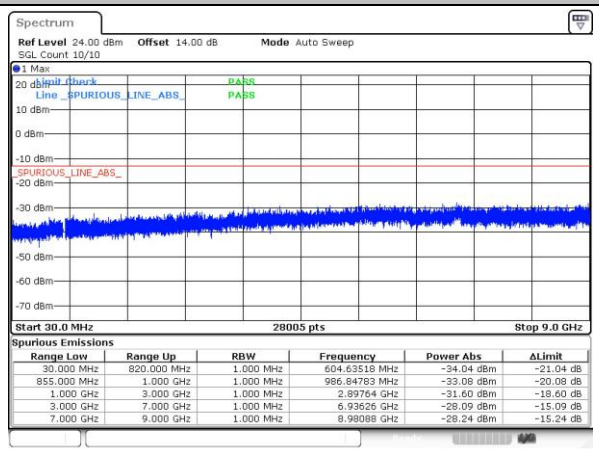


Highest Channel

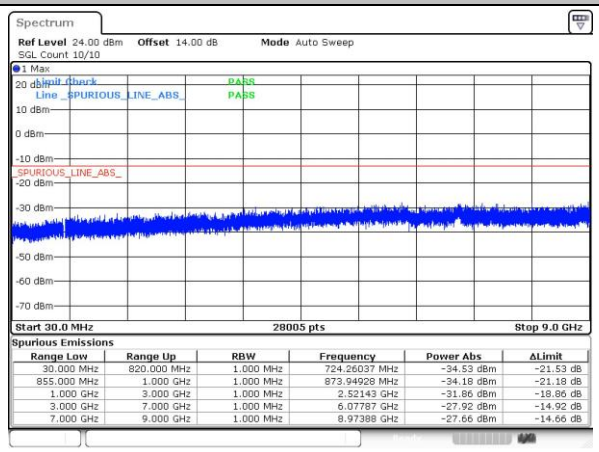


GSM850 (EDGE class 8)

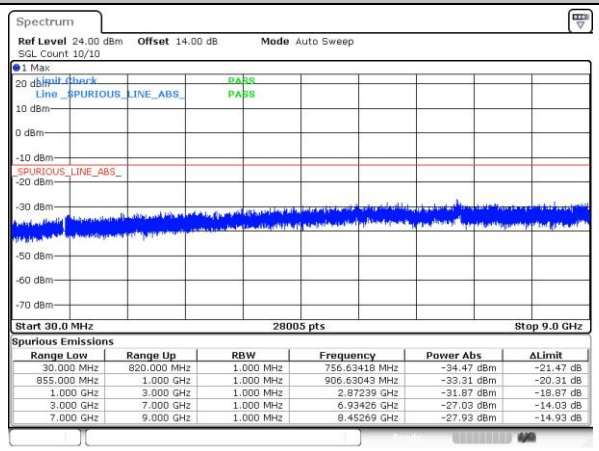
Lowest Channel

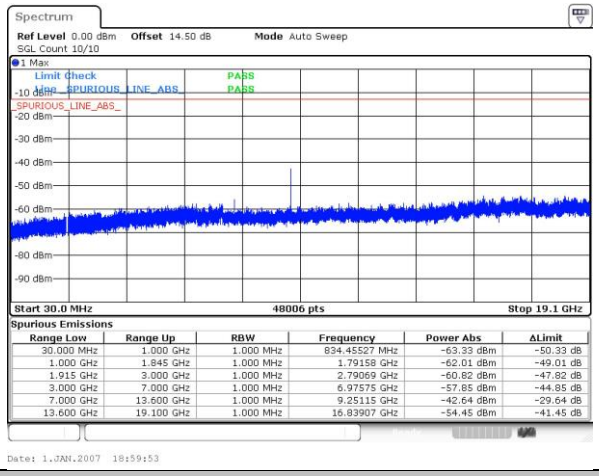
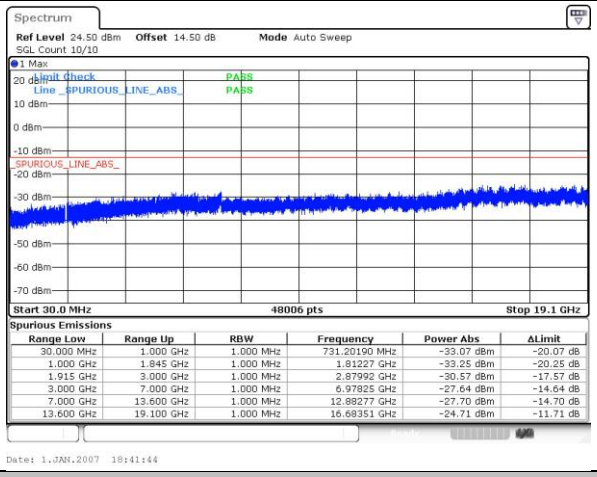
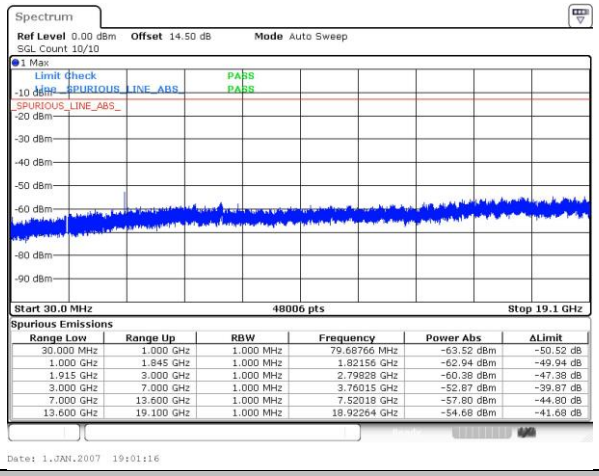
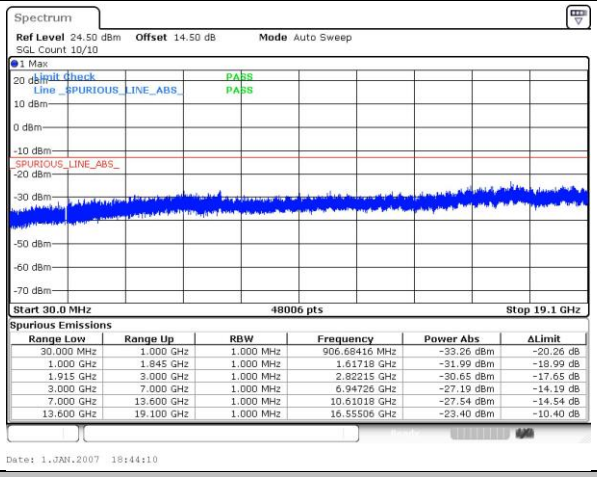
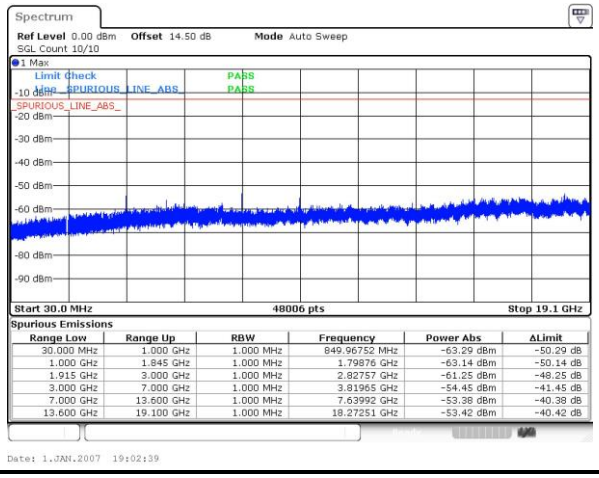
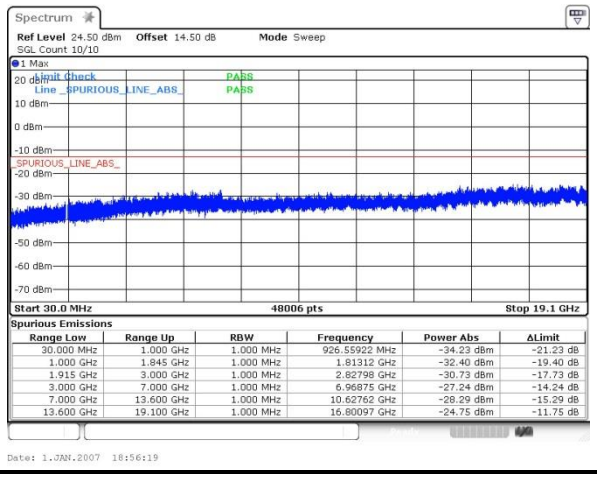


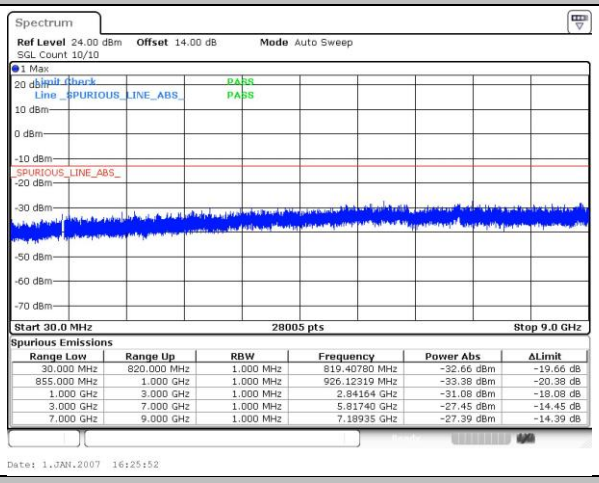
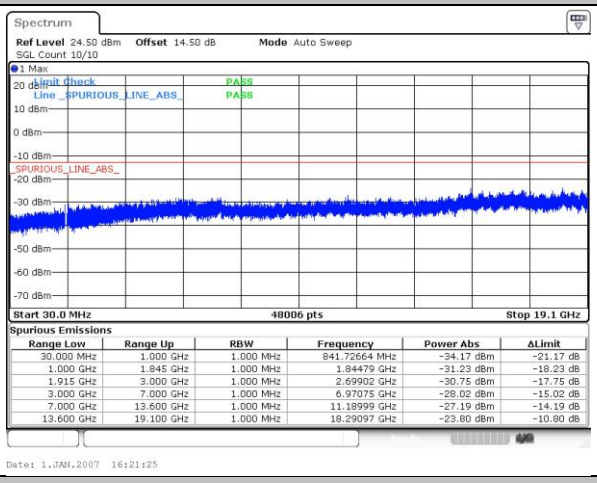
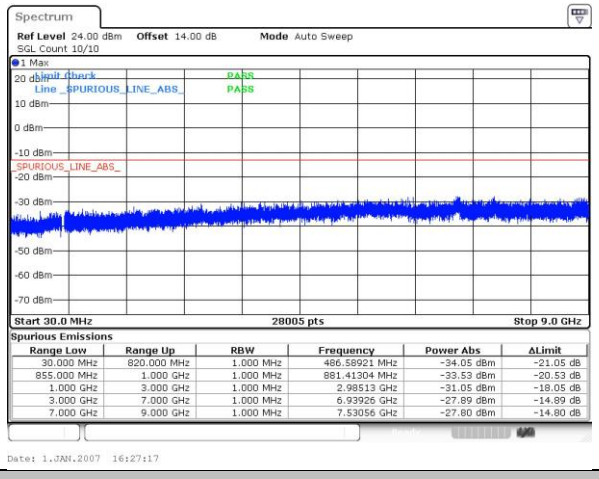
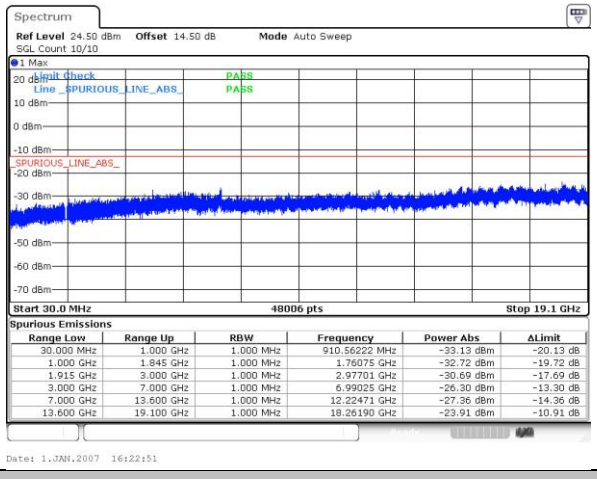
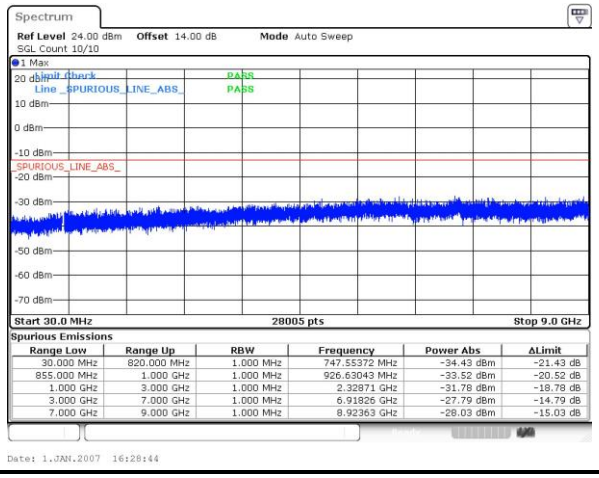
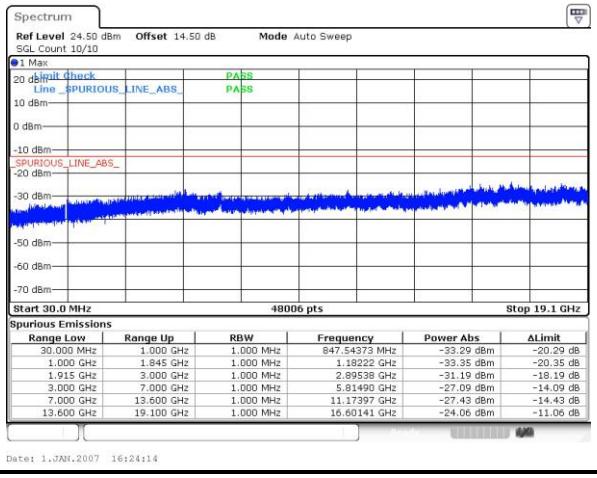
Middle Channel

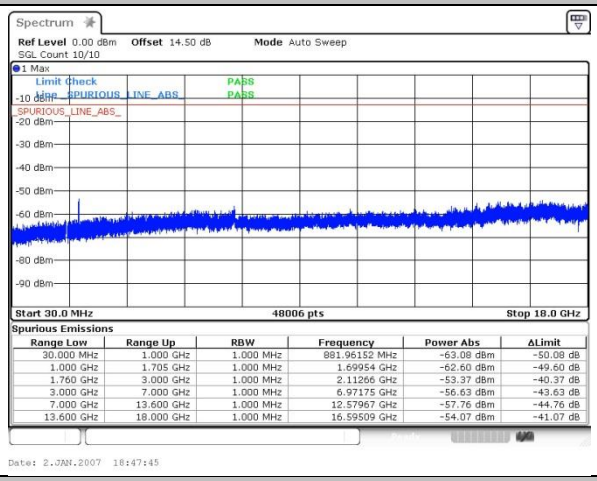
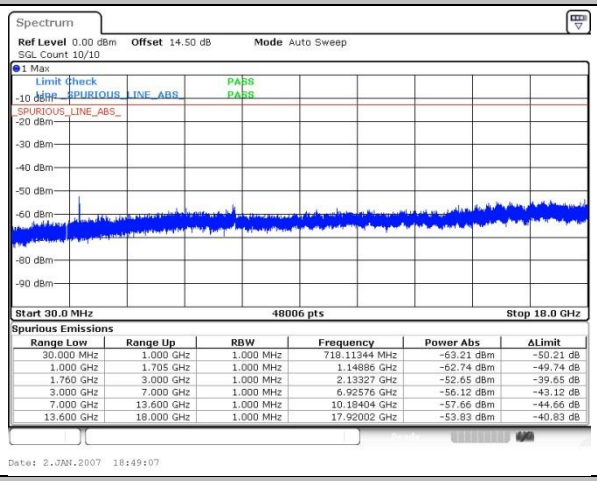
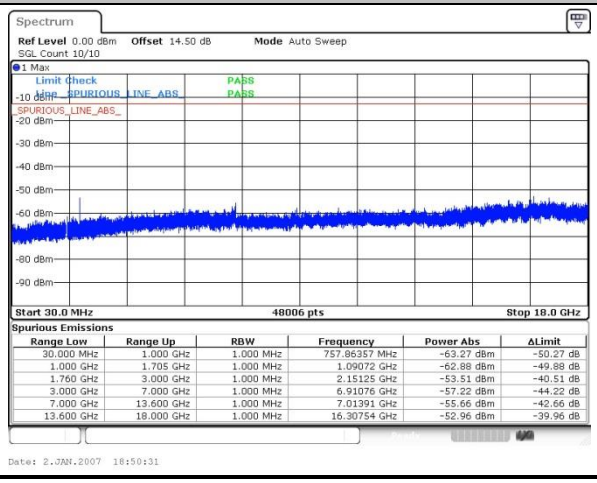


Highest Channel



GSM1900 (GSM)	GSM1900 (EDGE class 8)
Lowest Channel	**Lowest Channel**
	
Middle Channel	**Middle Channel**
	
Highest Channel	**Highest Channel**
	

WCDMA Band V (RMC 12.2Kbps)	WCDMA Band II (RMC 12.2Kbps)
Lowest Channel	**Lowest Channel**
	
Middle Channel	**Middle Channel**
	
Highest Channel	**Highest Channel**
	

WCDMA Band IV (RMC 12.2Kbps)	
Lowest Channel	
	
Middle Channel	
	
Highest Channel	
	

Frequency Stability

Test Conditions	Middle Channel	GSM850 (GSM)	GSM850 (EDGE class 8)	Limit 2.5ppm
Temperature (°C)	Voltage (Volt)	Deviation (ppm)		Result
50	Normal Voltage	0.0060	0.0132	PASS
40	Normal Voltage	0.0072	0.0024	
30	Normal Voltage	0.0012	0.0108	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0036	0.0012	
0	Normal Voltage	0.0036	0.0120	
-10	Normal Voltage	0.0120	0.0108	
-20	Normal Voltage	0.0060	0.0143	
-30	Normal Voltage	0.0012	0.0084	
20	Maximum Voltage	0.0227	0.0072	
20	Normal Voltage	0.0000	0.0000	
20	Battery End Point	0.0036	0.0048	

Note: Normal Voltage = 3.85V. ；Battery End Point (BEP) = 3.6 V.；Maximum Voltage =4.4 V

Test Conditions	Middle Channel	GSM1900 (GSM)	GSM1900 (EDGE class 8)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)		Result
50	Normal Voltage	0.0037	0.0037	PASS
40	Normal Voltage	0.0053	0.0064	
30	Normal Voltage	0.0069	0.0037	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0016	0.0053	
0	Normal Voltage	0.0064	0.0032	
-10	Normal Voltage	0.0069	0.0016	
-20	Normal Voltage	0.0048	0.0048	
-30	Normal Voltage	0.0037	0.0021	
20	Maximum Voltage	0.0005	0.0043	
20	Normal Voltage	0.0000	0.0000	
20	Battery End Point	0.0059	0.0011	

Note:

1. Normal Voltage = 3.85V. ；Battery End Point (BEP) = 3.6 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.

Test Conditions	Middle Channel	WCDMA Band V (RMC 12.2Kbps)	Limit 2.5ppm
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0024	PASS
40	Normal Voltage	0.0036	
30	Normal Voltage	0.0012	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0012	
0	Normal Voltage	0.0108	
-10	Normal Voltage	0.0120	
-20	Normal Voltage	0.0072	
-30	Normal Voltage	0.0000	
20	Maximum Voltage	0.0132	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0108	

Note: Normal Voltage = 3.85V. ；Battery End Point (BEP) = 3.6 V.；Maximum Voltage =4.4 V

Test Conditions	Middle Channel	WCDMA Band II (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0021	PASS
40	Normal Voltage	0.0016	
30	Normal Voltage	0.0032	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0005	
0	Normal Voltage	0.0048	
-10	Normal Voltage	0.0027	
-20	Normal Voltage	0.0053	
-30	Normal Voltage	0.0005	
20	Maximum Voltage	0.0037	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0027	

Note: Normal Voltage = 3.85V. ；Battery End Point (BEP) = 3.6 V.；Maximum Voltage =4.4 V

Test Conditions	Middle Channel	WCDMA Band IV (RMC 12.2Kbps)	Limit 2.5ppm
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0032	PASS
40	Normal Voltage	0.0017	
30	Normal Voltage	0.0025	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0010	
0	Normal Voltage	0.0038	
-10	Normal Voltage	0.0031	
-20	Normal Voltage	0.0051	
-30	Normal Voltage	0.0003	
20	Maximum Voltage	0.0022	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0015	

Note:

1. Normal Voltage = 3.85V. ；Battery End Point (BEP) = 3.6 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.

Appendix B. Test Results of Conducted 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	-71.81	-13	-58.81	-77.37	-76.20	2.86	9.40	H
	2509.2	-61.28	-13	-48.28	-71.70	-65.99	3.74	10.60	H
	3345.6	-66.24	-13	-53.24	-81.00	-72.24	4.45	12.60	H
	1672.8	-72.89	-13	-59.89	-77.60	-77.28	2.86	9.40	V
	2509.2	-60.06	-13	-47.06	-69.89	-64.77	3.74	10.60	V
	3345.6	-67.37	-13	-54.37	-80.94	-73.37	4.45	12.60	V

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

GSM850 (EDGE class 8)									
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	-72.17	-13	-59.17	-77.73	-76.56	2.86	9.40	H
	2509.2	-64.41	-13	-51.41	-74.83	-69.12	3.74	10.60	H
	3345.6	-66.38	-13	-53.38	-81.14	-72.38	4.45	12.60	H
	1672.8	-73.17	-13	-60.17	-77.88	-77.56	2.86	9.40	V
	2509.2	-63.94	-13	-50.94	-73.77	-68.65	3.74	10.60	V
	3345.6	-67.49	-13	-54.49	-81.06	-73.49	4.45	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	-64.93	-13	-51.93	-78.55	-72.51	5.02	12.60	H
	5640	-62.33	-13	-49.33	-78.93	-68.13	7.30	13.10	H
	7520	-62.37	-13	-49.37	-82.35	-65.94	7.73	11.30	H
	3760	-64.96	-13	-51.96	-79.29	-72.54	5.02	12.60	V
	5640	-63.75	-13	-50.75	-80.28	-69.55	7.30	13.10	V
	7520	-62.73	-13	-49.73	-82.37	-66.30	7.73	11.30	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)
Middle	3760	-66.60	-13	-53.60	-80.22	-74.18	5.02	12.60	H
	5640	-63.81	-13	-50.81	-80.41	-69.61	7.30	13.10	H
	7520	-62.45	-13	-49.45	-82.43	-66.02	7.73	11.30	H
	3760	-66.23	-13	-53.23	-80.56	-73.81	5.02	12.60	V
	5640	-65.56	-13	-52.56	-82.09	-71.36	7.30	13.10	V
	7520	-63.00	-13	-50.00	-82.64	-66.57	7.73	11.30	V

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

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)
Middle	1672.8	-72.08	-13	-59.08	-77.64	-76.47	2.86	9.40	H
	2509.2	-68.85	-13	-55.85	-79.27	-73.56	3.74	10.60	H
	3345.6	-66.24	-13	-53.24	-81.00	-72.24	4.45	12.60	H
	1672.8	-73.03	-13	-60.03	-77.74	-77.42	2.86	9.40	V
	2509.2	-69.53	-13	-56.53	-79.36	-74.24	3.74	10.60	V
	3345.6	-67.61	-13	-54.61	-81.18	-73.61	4.45	12.60	V

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

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)
Middle	-80.65	-67.03	-13	-54.03	-80.65	-74.61	5.02	12.60	H
	-81.83	-65.23	-13	-52.23	-81.83	-71.03	7.30	13.10	H
	-82.68	-62.70	-13	-49.70	-82.68	-66.27	7.73	11.30	H
	-80.65	-66.44	-13	-53.44	-80.77	-74.02	5.02	12.60	V
	-81.83	-65.27	-13	-52.27	-81.8	-71.07	7.30	13.10	V
	-82.68	-62.98	-13	-49.98	-82.62	-66.55	7.73	11.30	V

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

WCDMA Band IV(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)
Middle	3465.2	-58.54	-13	-45.54	-77.87	-66.77	4.37	12.60	H
	5197.8	-57.70	-13	-44.70	-81.86	-65.46	4.94	12.70	H
	6930.4	-56.38	-13	-43.38	-80.29	-61.76	6.32	11.70	H
	3465.2	-63.10	-13	-50.10	-79.18	-71.33	4.37	12.60	V
	5197.8	-62.31	-13	-49.31	-81.82	-70.07	4.94	12.70	V
	6930.4	-55.43	-13	-42.43	-79.34	-60.81	6.32	11.70	V

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