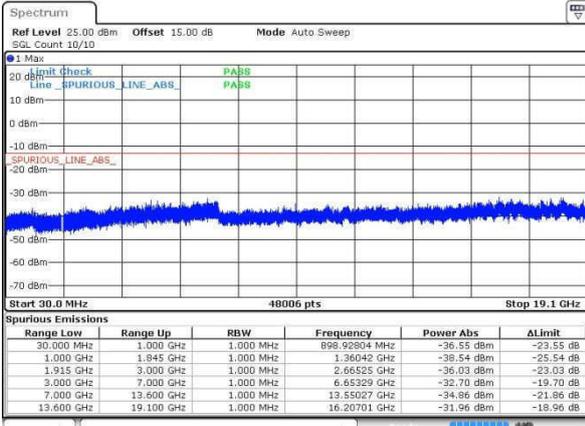




GSM1900 (GSM)

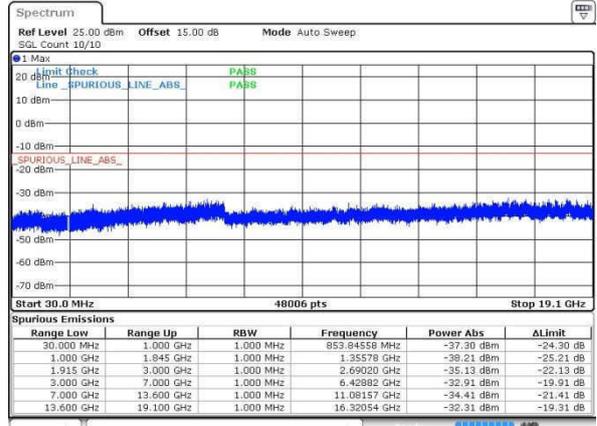
Lowest Channel



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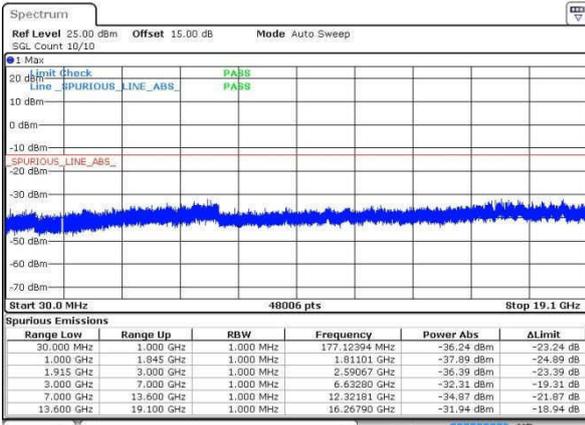
GSM1900 (EDGE class 8)

Lowest Channel



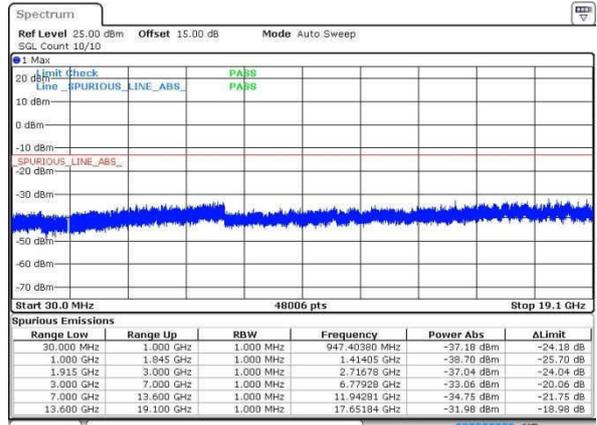
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Middle Channel



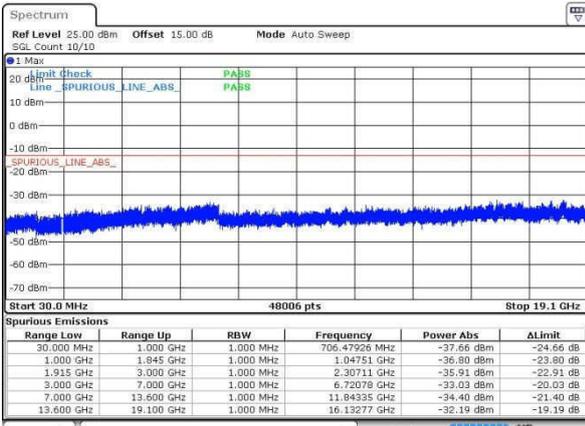
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Middle Channel



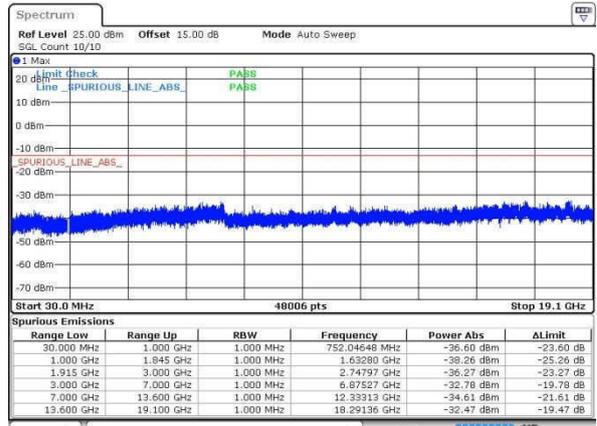
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Highest Channel



Date: 24 APR 2016 01:34:17

Highest Channel

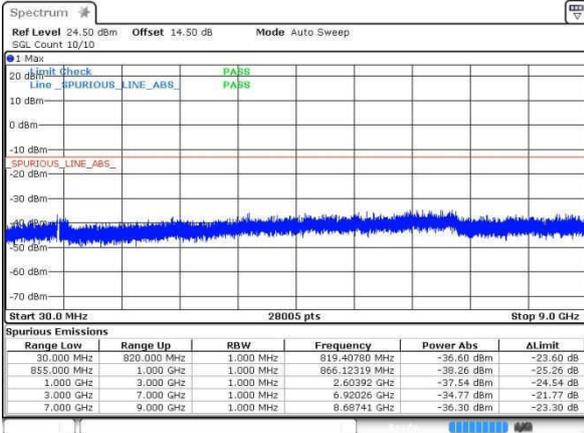


Date: 24 APR 2016 02:27:32



WCDMA Band V (RMC 12.2Kbps)

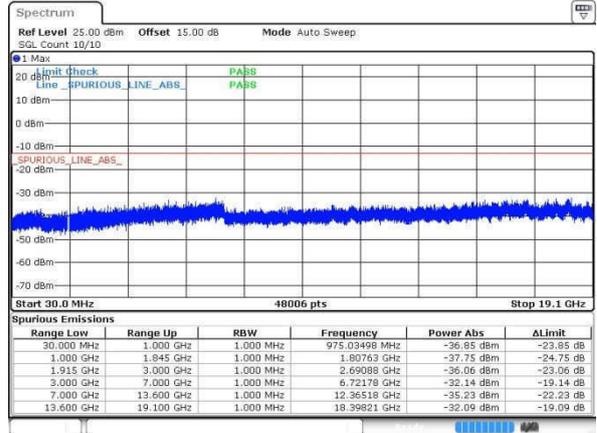
Lowest Channel



Date: 22 APR 2016 18:41:54

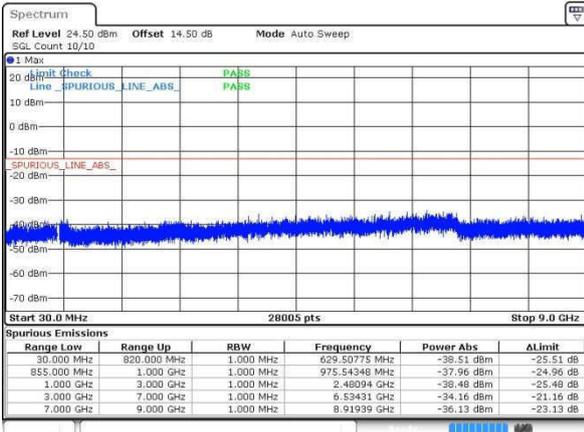
WCDMA Band II (RMC 12.2Kbps)

Lowest Channel



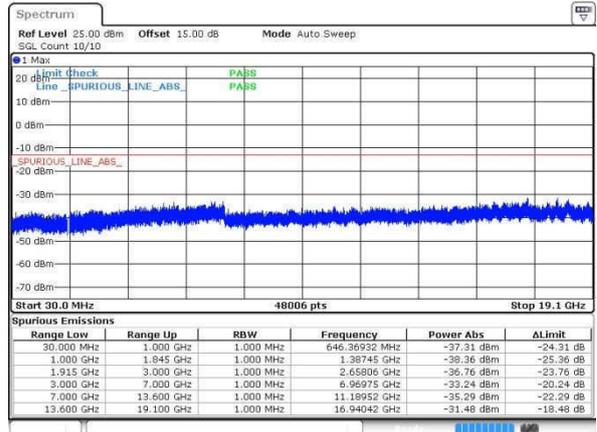
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Middle Channel



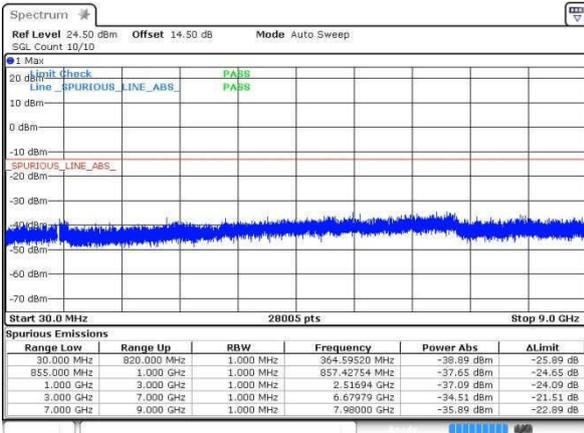
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Middle Channel



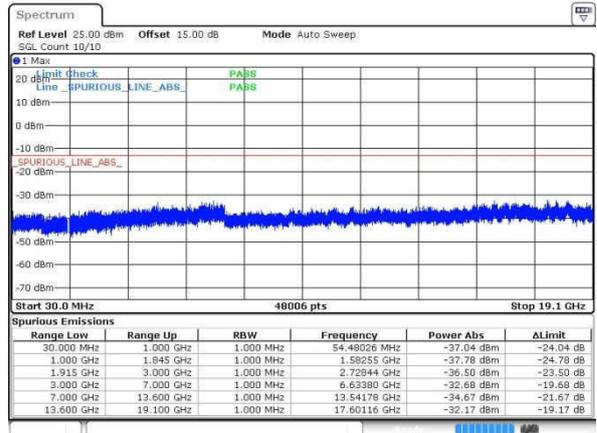
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Highest Channel



Date: 22 APR 2016 18:44:25

Highest Channel

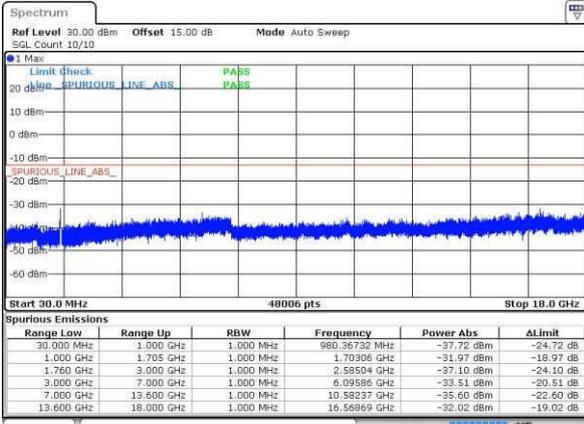


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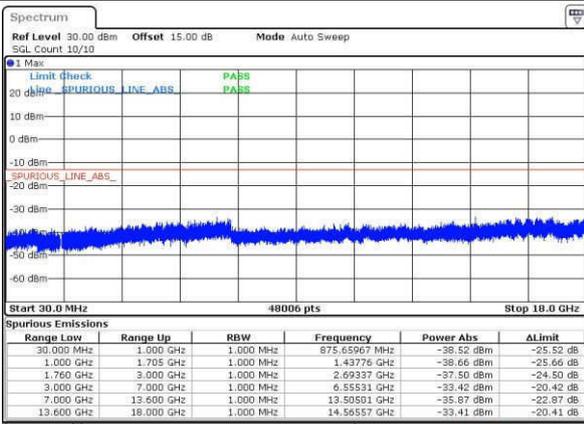
WCDMA Band IV (RMC 12.2Kbps)

Lowest Channel



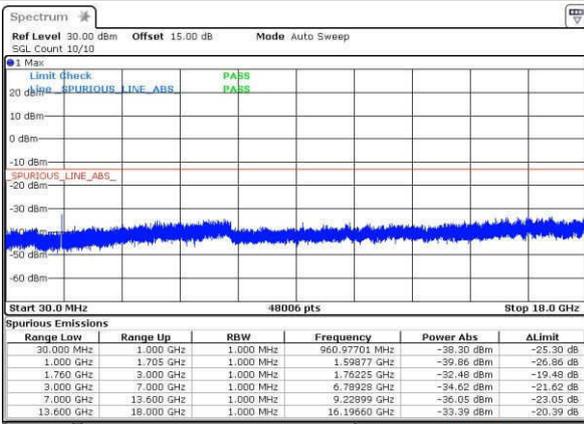
Date: 16.APR.2016 18.00.14

Middle Channel



Date: 16.APR.2016 18.01.41

Highest Channel



Date: 16.APR.2016 18.03.06



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	0.0012	0.0024	PASS
40	Normal Voltage	0.0048	0.0048	
30	Normal Voltage	0.0060	0.0012	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0024	0.0012	
0	Normal Voltage	0.0108	0.0012	
-10	Normal Voltage	0.0036	0.0060	
-20	Normal Voltage	0.0024	0.0012	
-30	Normal Voltage	0.0060	0.0024	
20	Maximum Voltage	0.0120	0.0072	
20	Normal Voltage	0.0000	0.0048	
20	Battery End Point	0.0024	0.0036	

Note: Normal Voltage = 3.9 V. ; Battery End Point (BEP) = 3.55 V. ; Maximum Voltage =4.35 V



Test Conditions	Middle Channel	GSM1900 (GSM)	GSM1900 (EDGE class 8)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)		Result
50	Normal Voltage	0.0005	0.0005	PASS
40	Normal Voltage	0.0016	0.0011	
30	Normal Voltage	0.0005	0.0032	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0016	0.0016	
0	Normal Voltage	0.0011	0.0011	
-10	Normal Voltage	0.0027	0.0191	
-20	Normal Voltage	0.0011	0.0186	
-30	Normal Voltage	0.0021	0.0165	
20	Maximum Voltage	0.0016	0.0005	
20	Normal Voltage	0.0000	0.0000	
20	Battery End Point	0.0021	0.0011	

Note:

1. Normal Voltage = 3.9 V. ; Battery End Point (BEP) = 3.55 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.



Test Conditions	Middle Channel	WCDMA Band V (RMC 12.2Kbps)	Limit 2.5ppm
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0012	PASS
40	Normal Voltage	0.0024	
30	Normal Voltage	0.0036	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0048	
0	Normal Voltage	0.0060	
-10	Normal Voltage	0.0012	
-20	Normal Voltage	0.0072	
-30	Normal Voltage	0.0108	
20	Maximum Voltage	0.0048	
20	Normal Voltage	0.0060	
20	Battery End Point	0.0024	

Note: Normal Voltage = 3.9 V. ; Battery End Point (BEP) = 3.55 V. ; Maximum Voltage =4.35 V



Test Conditions	Middle Channel	WCDMA Band II (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0011	PASS
40	Normal Voltage	0.0016	
30	Normal Voltage	0.0053	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0016	
0	Normal Voltage	0.0005	
-10	Normal Voltage	0.0027	
-20	Normal Voltage	0.0016	
-30	Normal Voltage	0.0011	
20	Maximum Voltage	0.0011	
20	Normal Voltage	0.0016	
20	Battery End Point	0.0005	

Note:

1. Normal Voltage = 3.9V. ; Battery End Point (BEP) = 3.55 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.



Test Conditions	Middle Channel	WCDMA Band IV (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0058	PASS
40	Normal Voltage	0.0029	
30	Normal Voltage	0.0012	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0046	
0	Normal Voltage	0.0035	
-10	Normal Voltage	0.0017	
-20	Normal Voltage	0.0006	
-30	Normal Voltage	0.0023	
20	Maximum Voltage	0.0040	
20	Normal Voltage	0.0012	
20	Battery End Point	0.0006	

Note:

1. Normal Voltage = 3.9V. ; Battery End Point (BEP) = 3.55 V. ; Maximum Voltage =4.35V
2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



Appendix B. Test Results of Radiated Test

ERP/EIRP

Channel	Mode	Horizontal		Vertical	
		ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)
Lowest	GSM850 GSM	28.75	0.7499	20.91	0.1233
Middle		28.21	0.6622	20.71	0.1178
Highest		27.69	0.5875	21.13	0.1297
Lowest	GSM850 EDGE class 8	22.81	0.1910	14.98	0.0315
Middle		22.70	0.1862	14.27	0.0267
Highest		21.51	0.1416	15.16	0.0328
Lowest	WCDMA Band V RMC 12.2Kbps	19.47	0.0885	11.70	0.0148
Middle		18.84	0.0766	11.39	0.0138
Highest		18.50	0.0708	11.77	0.0150
Limit	ERP < 7W	Result		PASS	



Channel	Mode	Horizontal		Vertical	
		EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	GSM1900 GSM	31.17	1.3092	31.34	1.3614
Middle		31.68	1.4723	32.09	1.6181
Highest		31.41	1.3836	31.62	1.4521
Lowest	GSM1900 EDGE class 8	27.19	0.5236	27.41	0.5508
Middle		28.07	0.6412	28.17	0.6561
Highest		28.26	0.6699	28.17	0.6561
Lowest	WCDMA Band II RMC 12.2Kbps	24.35	0.2723	24.48	0.2805
Middle		24.78	0.3006	24.96	0.3133
Highest		24.89	0.3083	25.40	0.3467
Limit	EIRP < 2W	Result		PASS	

Channel	Mode	Horizontal		Vertical	
		EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	WCDMA Band IV RMC 12.2Kbps	25.58	0.3614	24.97	0.3141
Middle		25.31	0.3396	25.02	0.3177
Highest		24.62	0.2897	24.64	0.2911
Limit	EIRP < 1W	Result		PASS	



Radiated Spurious Emission

<For Battery 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)
Middle	1672	-56.71	-13	-43.71	-58.89	-58.60	1.86	5.90	H
	2510	-45.06	-13	-32.06	-56.75	-47.40	2.31	6.80	H
	3345	-54.57	-13	-41.57	-67.20	-56.97	2.85	7.40	H
	1672	-59.62	-13	-46.62	-58.48	-61.51	1.86	5.90	V
	2510	-37.41	-13	-24.41	-52.97	-39.75	2.31	6.80	V
	3345	-53.24	-13	-40.24	-67.22	-55.64	2.85	7.40	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	1674	-56.33	-13	-43.33	-58.51	-58.22	1.86	5.90	H
	2509	-53.85	-13	-40.85	-62.88	-56.19	2.31	6.80	H
	3345	-54.60	-13	-41.60	-67.23	-57.00	2.85	7.40	H
	1672	-59.96	-13	-46.96	-58.82	-61.85	1.86	5.90	V
	2510	-49.57	-13	-36.57	-60.54	-51.91	2.31	6.80	V
	3345	-52.94	-13	-39.94	-66.92	-55.34	2.85	7.40	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	3759	-52.89	-13	-39.89	-67.09	-57.49	3	7.60	H
	5640	-47.85	-13	-34.85	-61.64	-54.11	3.84	10.10	H
	7521	-44.36	-13	-31.36	-64.14	-51.86	4.43	11.93	H
	3760	-53.99	-13	-40.99	-66.48	-58.59	3	7.60	V
	5640	-50.95	-13	-37.95	-63.36	-57.21	3.84	10.10	V
	7521	-46.63	-13	-33.63	-64.42	-54.13	4.43	11.93	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	3759	-52.79	-13	-39.79	-66.99	-57.39	3	7.60	H
	5640	-49.36	-13	-36.36	-63.15	-55.62	3.84	10.10	H
	7521	-44.30	-13	-31.30	-64.08	-51.80	4.43	11.93	H
	3760	-54.09	-13	-41.09	-66.58	-58.69	3	7.60	V
	5640	-50.02	-13	-37.02	-62.43	-56.28	3.84	10.10	V
	7521	-47.34	-13	-34.34	-65.13	-54.84	4.43	11.93	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	-56.37	-13	-43.37	-58.55	-58.26	1.86	5.90	H
	2509	-54.40	-13	-41.40	-63.43	-56.74	2.31	6.80	H
	3345	-53.87	-13	-40.87	-66.50	-56.27	2.85	7.40	H
	1672	-59.78	-13	-46.78	-58.64	-61.67	1.86	5.90	V
	2509	-51.44	-13	-38.44	-62.41	-53.78	2.31	6.80	V
	3345	-53.87	-13	-40.87	-67.85	-56.27	2.85	7.40	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	3759	-52.93	-13	-39.93	-67.13	-57.53	3	7.60	H
	5640	-49.94	-13	-36.94	-63.73	-56.20	3.84	10.10	H
	7521	-43.84	-13	-30.84	-63.62	-51.34	4.43	11.93	H
	3760	-53.87	-13	-40.87	-66.36	-58.47	3	7.60	V
	5640	-50.89	-13	-37.89	-63.3	-57.15	3.84	10.10	V
	7521	-47.07	-13	-34.07	-64.86	-54.57	4.43	11.93	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	-53.71	-13	-40.71	-67.84	-58.08	3.12	7.49	H
	5197	-51.05	-13	-38.05	-64.20	-56.85	3.65	9.45	H
	6930	-46.53	-13	-33.53	-63.39	-53.73	4.15	11.35	H
	3465	-54.69	-13	-41.69	-67.51	-59.06	3.12	7.49	V
	5197	-49.25	-13	-36.25	-63.26	-55.05	3.65	9.45	V
	6930	-48.52	-13	-35.52	-63.77	-55.72	4.15	11.35	V

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



<For Battery 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	-54.96	-13	-41.96	-57.14	-56.85	1.86	5.90	H
	2509	-53.45	-13	-40.45	-62.48	-55.79	2.31	6.80	H
	3345	-53.06	-13	-40.06	-65.69	-55.46	2.85	7.40	H
	1672	-58.20	-13	-45.20	-57.06	-60.09	1.86	5.90	V
	2510	-42.64	-13	-29.64	-56.48	-44.98	2.31	6.80	V
	3345	-53.08	-13	-40.08	-67.06	-55.48	2.85	7.40	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	3759	-51.47	-13	-38.47	-65.67	-56.07	3	7.60	H
	5640	-48.40	-13	-35.40	-62.19	-54.66	3.84	10.10	H
	7521	-45.05	-13	-32.05	-64.83	-52.55	4.43	11.93	H
	3759	-53.59	-13	-40.59	-66.08	-58.19	3	7.60	V
	5640	-49.66	-13	-36.66	-62.07	-55.92	3.84	10.10	V
	7521	-45.88	-13	-32.88	-63.67	-53.38	4.43	11.93	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	-53.10	-13	-40.10	-67.23	-57.47	3.12	7.49	H
	5197	-50.25	-13	-37.25	-63.40	-56.05	3.65	9.45	H
	6930	-45.41	-13	-32.41	-62.27	-52.61	4.15	11.35	H
	3465	-55.20	-13	-42.20	-68.02	-59.57	3.12	7.49	V
	5197	-49.41	-13	-36.41	-63.42	-55.21	3.65	9.45	V
	6930	-48.35	-13	-35.35	-63.6	-55.55	4.15	11.35	V

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