



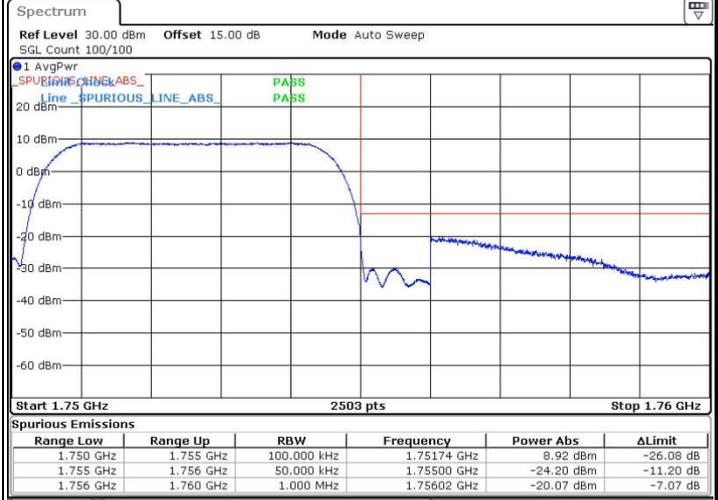
WCDMA Band IV (RMC 12.2Kbps)

Lowest Band Edge

Highest Band Edge



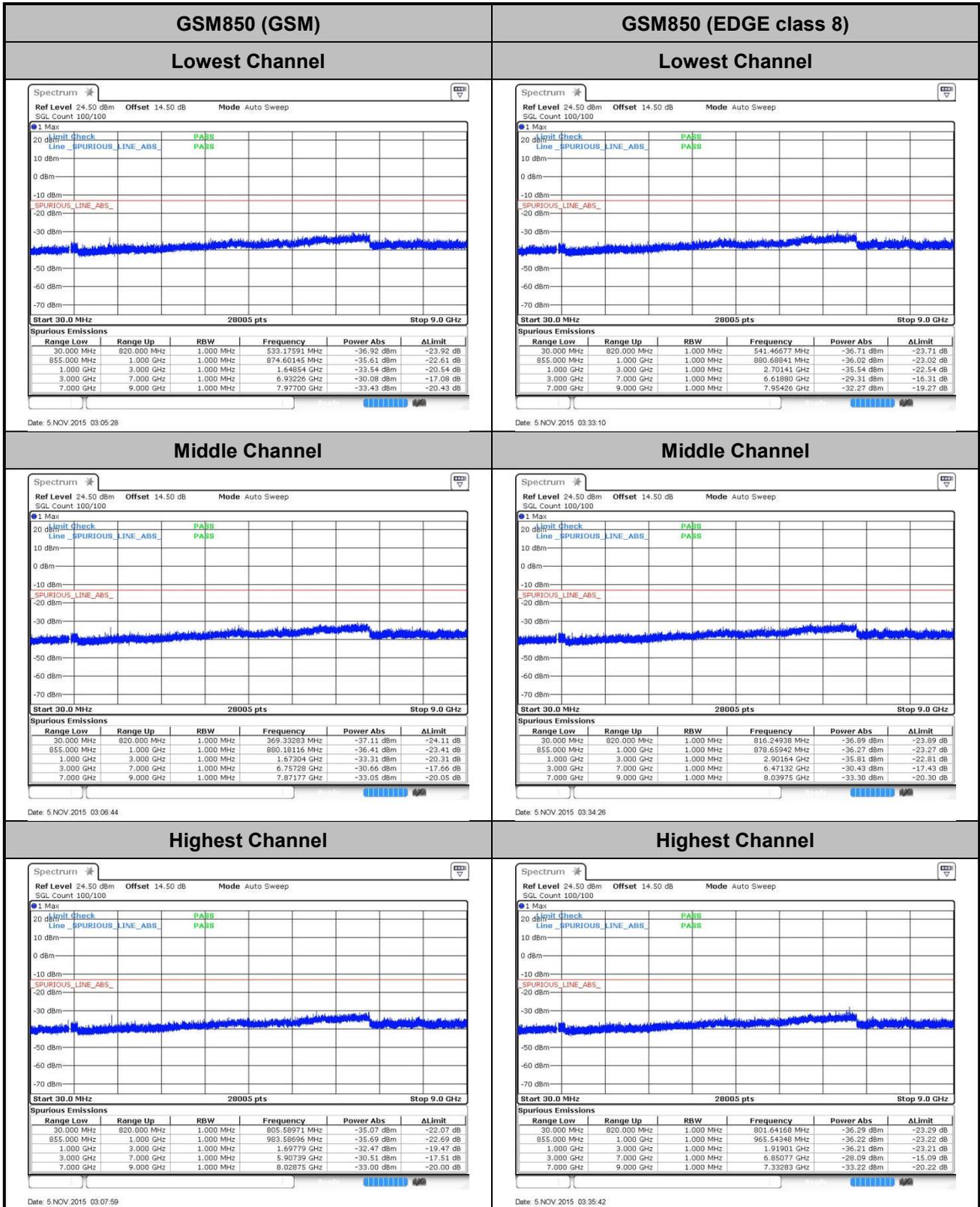
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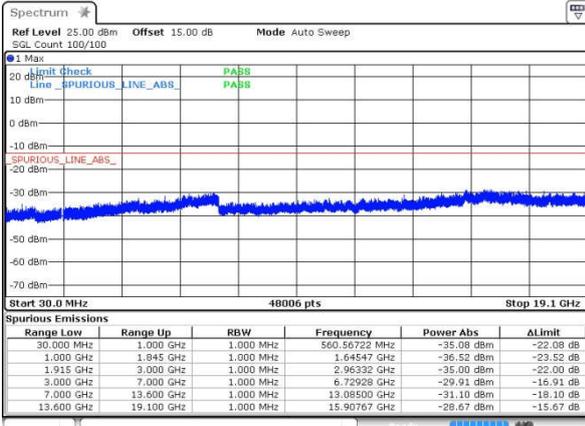
Conducted Spurious Emission





GSM1900 (GSM)

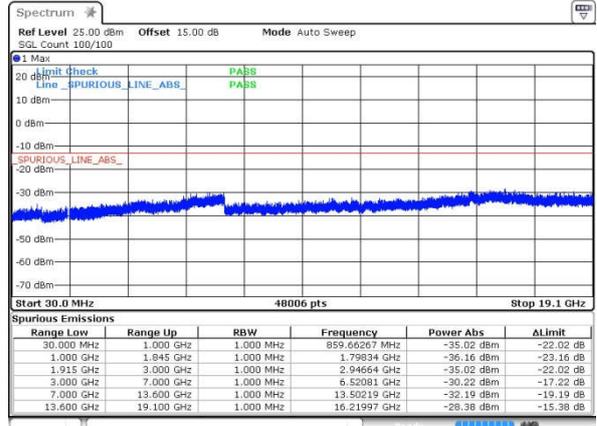
Lowest Channel



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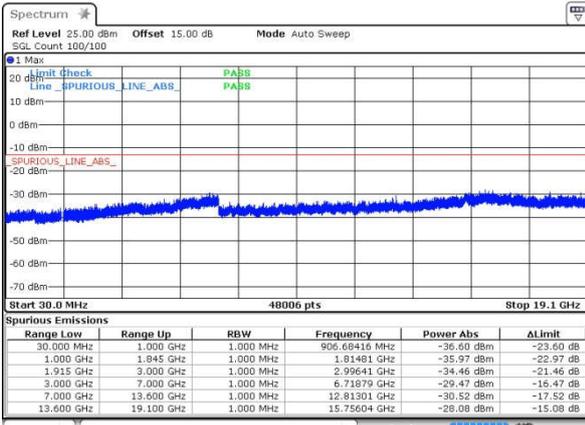
GSM1900 (EDGE class 8)

Lowest Channel



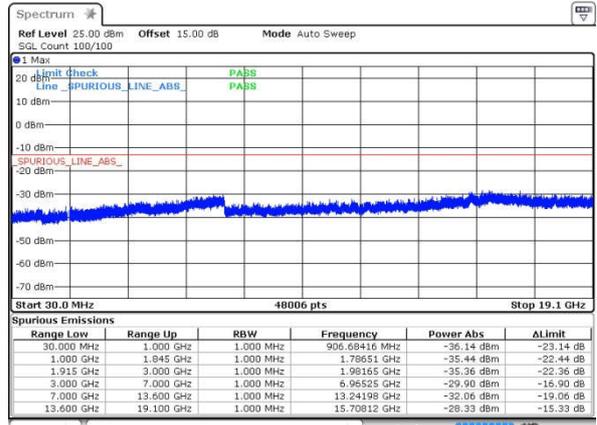
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Middle Channel



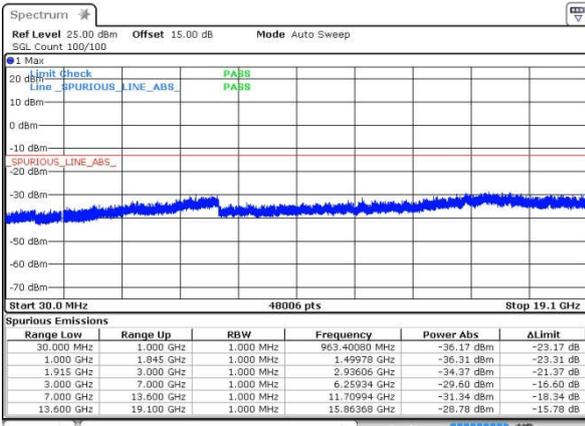
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Middle Channel



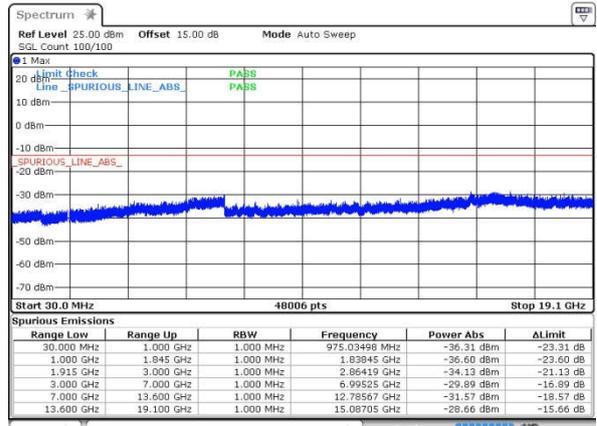
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Highest Channel



Date: 5 NOV 2015 03:59:55

Highest Channel

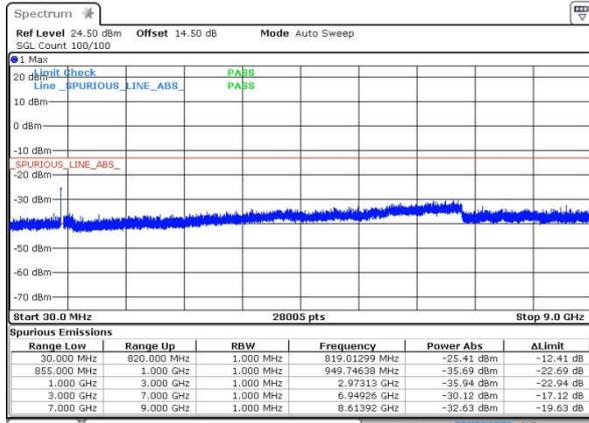


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WCDMA Band V (RMC 12.2Kbps)

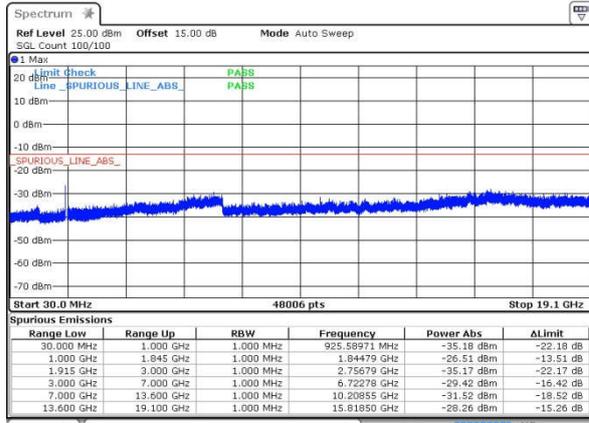
Lowest Channel



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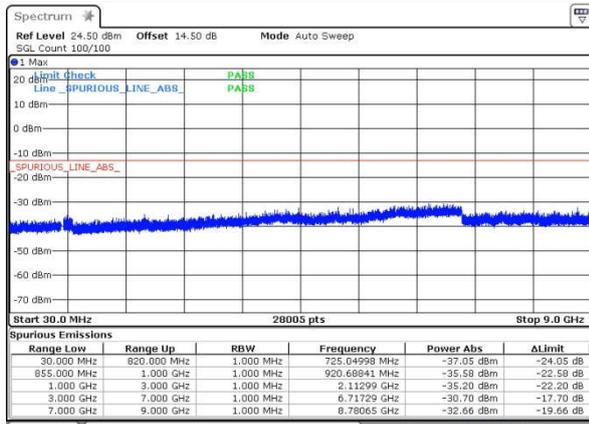
WCDMA Band II (RMC 12.2Kbps)

Lowest Channel



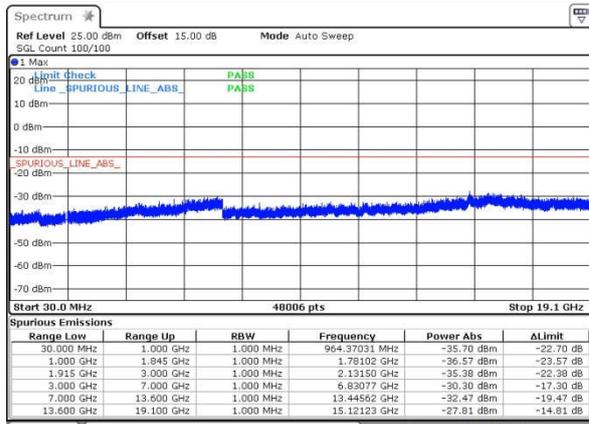
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Middle Channel



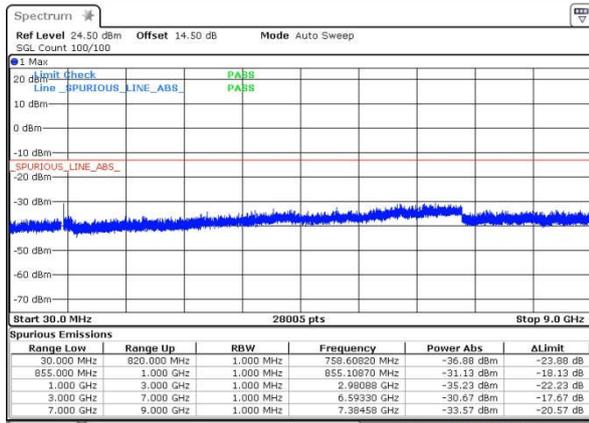
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Middle Channel



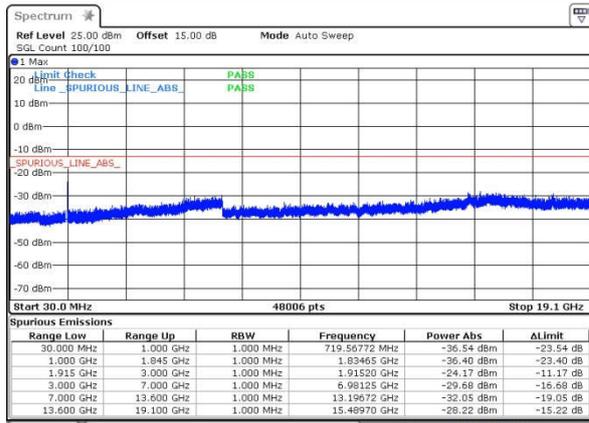
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Highest Channel



Date: 5 NOV 2015 04:46:48

Highest Channel

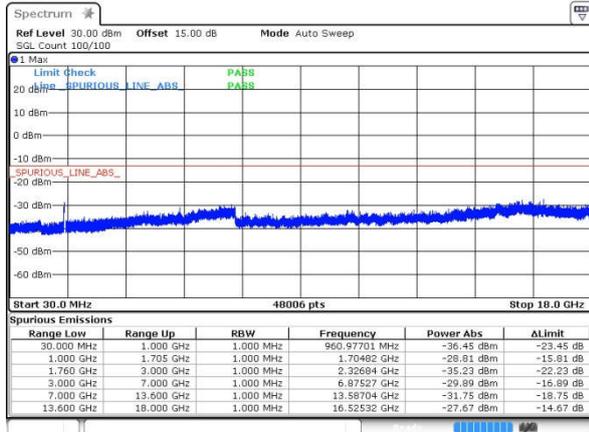


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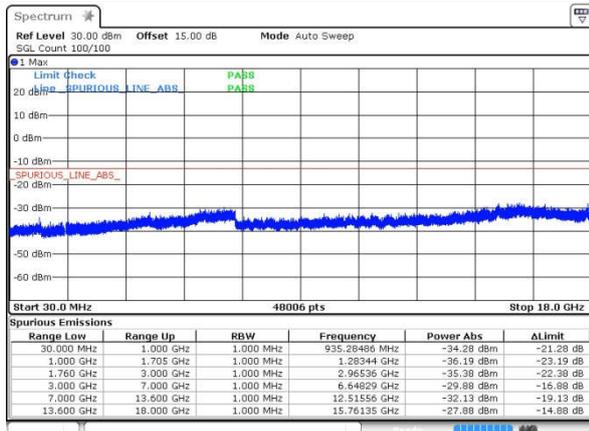
WCDMA Band IV (RMC 12.2Kbps)

Lowest Channel



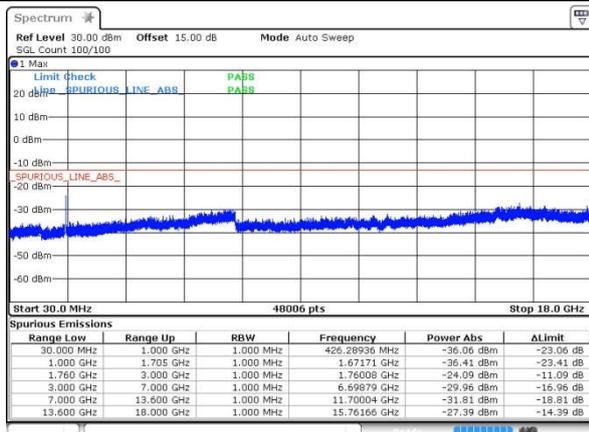
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Middle Channel



Date: 5 NOV 2015 05:33:18

Highest Channel



Date: 5 NOV 2015 05:34:34



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	0.0120	0.0024	PASS
40	Normal Voltage	0.0048	0.0418	
30	Normal Voltage	0.0466	0.0347	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0347	0.0430	
0	Normal Voltage	0.0036	0.0012	
-10	Normal Voltage	0.0287	0.0466	
-20	Normal Voltage	0.0024	0.0048	
-30	Normal Voltage	0.0371	0.0395	
20	Maximum Voltage	0.0012	0.0024	
20	Normal Voltage	0.0335	0.0084	
20	Battery End Point	0.0060	0.0335	

Note: Normal Voltage = 3.7V. : Battery End Point (BEP) = 3.5 V. : Maximum Voltage =4.2 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	0.0069	PASS
40	Normal Voltage	0.0197	0.0048	
30	Normal Voltage	0.0011	0.0165	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0176	0.0149	
0	Normal Voltage	0.0032	0.0048	
-10	Normal Voltage	0.0186	0.0160	
-20	Normal Voltage	0.0048	0.0032	
-30	Normal Voltage	0.0160	0.0138	
20	Maximum Voltage	0.0027	0.0016	
20	Normal Voltage	0.0144	0.0000	
20	Battery End Point	0.0037	0.0096	

Note:

1. Normal Voltage = 3.7V. ; Battery End Point (BEP) = 3.5 V. ; Maximum Voltage =4.2 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	0.0179	PASS
40	Normal Voltage	0.0108	
30	Normal Voltage	0.0347	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0323	
0	Normal Voltage	0.0251	
-10	Normal Voltage	0.0048	
-20	Normal Voltage	0.0251	
-30	Normal Voltage	0.0012	
20	Maximum Voltage	0.0096	
20	Normal Voltage	0.0311	
20	Battery End Point	0.0251	

Note: Normal Voltage = 3.7V. : Battery End Point (BEP) = 3.5 V. : Maximum Voltage =4.2 V



Test Conditions	Middle Channel	WCDMA Band II (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0096	PASS
40	Normal Voltage	0.0053	
30	Normal Voltage	0.0165	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0144	
0	Normal Voltage	0.0005	
-10	Normal Voltage	0.0170	
-20	Normal Voltage	0.0048	
-30	Normal Voltage	0.0037	
20	Maximum Voltage	0.0011	
20	Normal Voltage	0.0005	
20	Battery End Point	0.0122	

Note:

1. Normal Voltage = 3.7V. ; Battery End Point (BEP) = 3.5 V. ; Maximum Voltage =4.2 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	0.0063	PASS
40	Normal Voltage	0.0139	
30	Normal Voltage	0.0035	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0179	
0	Normal Voltage	0.0023	
-10	Normal Voltage	0.0133	
-20	Normal Voltage	0.0012	
-30	Normal Voltage	0.0167	
20	Maximum Voltage	0.0029	
20	Normal Voltage	0.0144	
20	Battery End Point	0.0023	

Note:

1. Normal Voltage = 3.7V. ; Battery End Point (BEP) = 3.5 V. ; Maximum Voltage =4.2 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 Radiated Test

ERP/EIRP

Channel	Mode	Horizontal		Vertical	
		ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)
Lowest	GSM850 GSM	28.85	0.7674	13.98	0.0250
Middle		28.88	0.7727	12.97	0.0198
Highest		28.82	0.7621	13.10	0.0204
Lowest	GSM850 EDGE class 8	22.06	0.1607	7.19	0.0052
Middle		21.86	0.1535	5.94	0.0039
Highest		21.86	0.1535	6.17	0.0041
Lowest	WCDMA Band V RMC 12.2Kbps	20.84	0.1213	5.76	0.0038
Middle		20.25	0.1059	4.36	0.0027
Highest		20.06	0.1014	4.26	0.0027
Limit	ERP < 7W	Result		PASS	

Channel	Mode	Horizontal		Vertical	
		EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	GSM1900 GSM	32.60	1.8197	32.45	1.7579
Middle		31.93	1.5596	32.33	1.7100
Highest		31.70	1.4791	32.35	1.7179
Lowest	GSM1900 EDGE class 8	27.73	0.5929	27.55	0.5689
Middle		27.60	0.5754	28.11	0.6471
Highest		27.70	0.5888	28.48	0.7047
Lowest	WCDMA Band II RMC 12.2Kbps	25.55	0.3589	25.35	0.3428
Middle		25.57	0.3606	25.88	0.3873
Highest		25.69	0.3707	26.34	0.4305
Limit	EIRP < 2W	Result		PASS	



Channel	Mode	Horizontal		Vertical	
		EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	WCDMA Band IV RMC 12.2Kbps	23.47	0.2223	23.62	0.2301
Middle		24.47	0.2799	24.36	0.2729
Highest		25.06	0.3206	24.96	0.3133
Limit	EIRP < 1W	Result		PASS	



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	-53.04	-13	-40.04	-55.22	-54.93	1.86	5.90	H
	2510	-52.25	-13	-39.25	-61.28	-54.59	2.31	6.80	H
	3345	-51.73	-13	-38.73	-64.36	-54.13	2.85	7.40	H
	1672	-58.71	-13	-45.71	-57.57	-60.60	1.86	5.90	V
	2510	-52.79	-13	-39.79	-63.76	-55.13	2.31	6.80	V
	3345	-50.93	-13	-37.93	-64.91	-53.33	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	1672	-56.59	-13	-43.59	-58.77	-58.48	1.86	5.90	H
	2509	-54.73	-13	-41.73	-63.76	-57.07	2.31	6.80	H
	3345	-52.61	-13	-39.61	-65.24	-55.01	2.85	7.40	H
	1672	-60.41	-13	-47.41	-59.27	-62.30	1.86	5.90	V
	2509	-53.22	-13	-40.22	-64.19	-55.56	2.31	6.80	V
	3345	-50.11	-13	-37.11	-64.09	-52.51	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	-51.63	-13	-38.63	-65.83	-56.23	3	7.60	H
	5640	-47.39	-13	-34.39	-61.18	-53.65	3.84	10.10	H
	7521	-43.40	-13	-30.40	-63.18	-50.90	4.43	11.93	H
	3759	-52.78	-13	-39.78	-65.27	-57.38	3	7.60	V
	5640	-48.29	-13	-35.29	-60.7	-54.55	3.84	10.10	V
	7521	-45.24	-13	-32.24	-63.03	-52.74	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	-51.13	-13	-38.13	-65.33	-55.73	3	7.60	H
	5640	-47.34	-13	-34.34	-61.13	-53.60	3.84	10.10	H
	7521	-42.74	-13	-29.74	-62.52	-50.24	4.43	11.93	H
	3759	-52.69	-13	-39.69	-65.18	-57.29	3	7.60	V
	5640	-49.59	-13	-36.59	-62	-55.85	3.84	10.10	V
	7521	-44.43	-13	-31.43	-62.22	-51.93	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	-55.78	-13	-42.78	-57.96	-57.67	1.86	5.90	H
	2509	-54.36	-13	-41.36	-63.39	-56.70	2.31	6.80	H
	3345	-52.95	-13	-39.95	-65.58	-55.35	2.85	7.40	H
	1672	-60.53	-13	-47.53	-59.39	-62.42	1.86	5.90	V
	2509	-52.60	-13	-39.60	-63.57	-54.94	2.31	6.80	V
	3345	-51.12	-13	-38.12	-65.10	-53.52	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	-52.34	-13	-39.34	-66.54	-56.94	3	7.60	H
	5640	-47.82	-13	-34.82	-61.61	-54.08	3.84	10.10	H
	7521	-42.32	-13	-29.32	-62.10	-49.82	4.43	11.93	H
	3759	-53.86	-13	-40.86	-66.35	-61.20	5.99	13.33	V
	5640	-49.12	-13	-36.12	-61.53	-56.17	6.17	13.22	V
	7521	-43.81	-13	-30.81	-61.6	-51.08	6.25	13.52	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	-50.02	-13	-37.02	-64.15	-54.39	3.12	7.49	H
	5198	-47.69	-13	-34.69	-60.84	-53.49	3.65	9.45	H
	6930	-43.44	-13	-30.44	-60.30	-50.64	4.15	11.35	H
	3465	-52.38	-13	-39.38	-65.2	-56.75	3.12	7.49	V
	5199	-46.93	-13	-33.93	-60.94	-52.73	3.65	9.45	V
	6930	-45.19	-13	-32.19	-60.44	-52.39	4.15	11.35	V

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