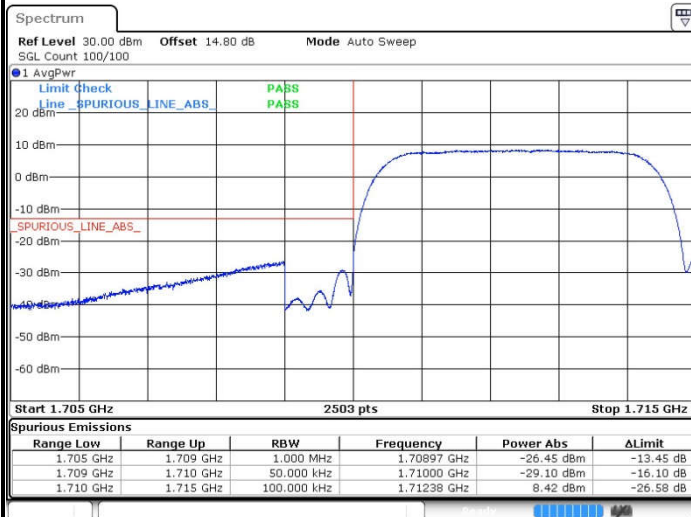




WCDMA Band IV (RMC 12.2Kbps)

Lowest Band Edge



Highest Band Edge

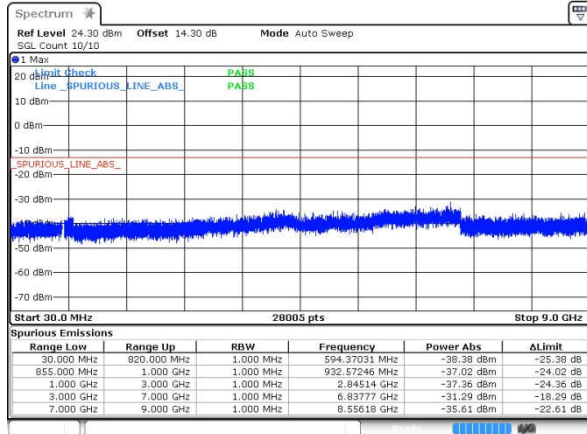




Conducted Spurious Emission

GSM850 (GSM)

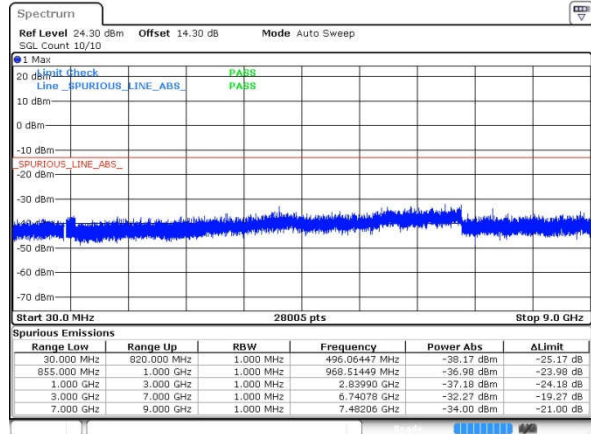
Lowest Channel



Date: 27 APR 2018 14:20:21

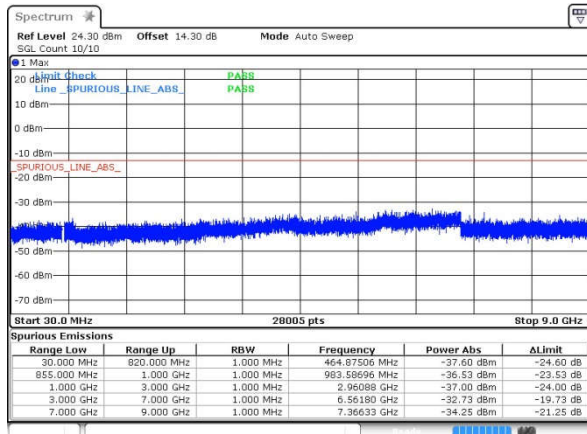
GSM850 (EDGE class 8)

Lowest Channel



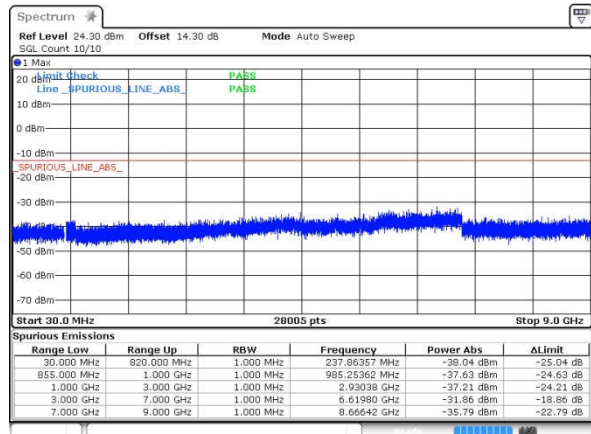
Date: 27 APR 2018 14:40:40

Middle Channel



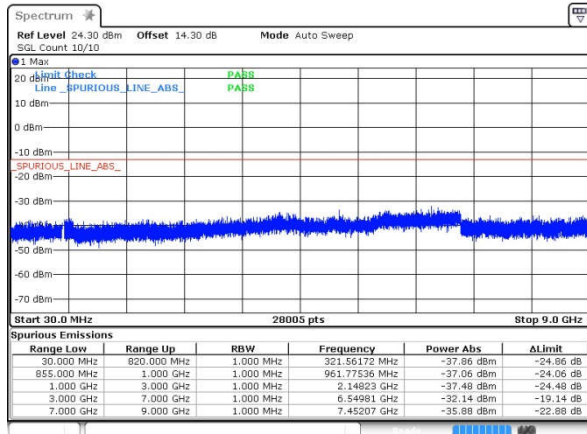
Date: 27 APR 2018 14:21:43

Middle Channel



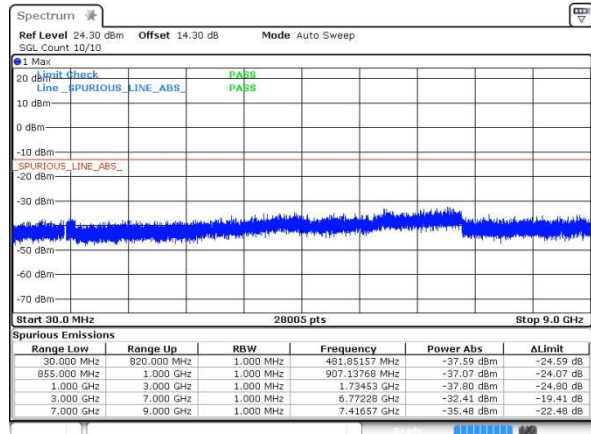
Date: 27 APR 2018 14:42:00

Highest Channel



Date: 27 APR 2018 14:23:03

Highest Channel

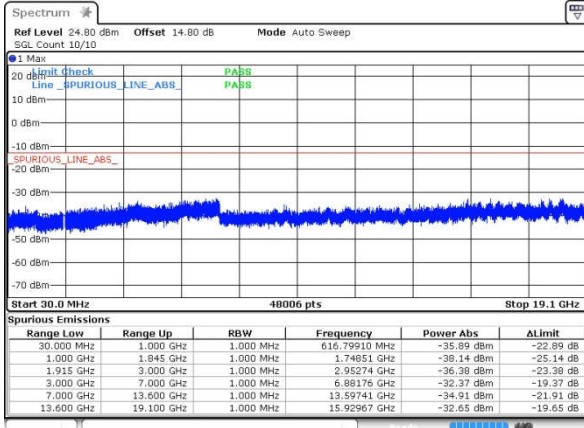


Date: 27 APR 2018 14:43:18



GSM1900 (GSM)

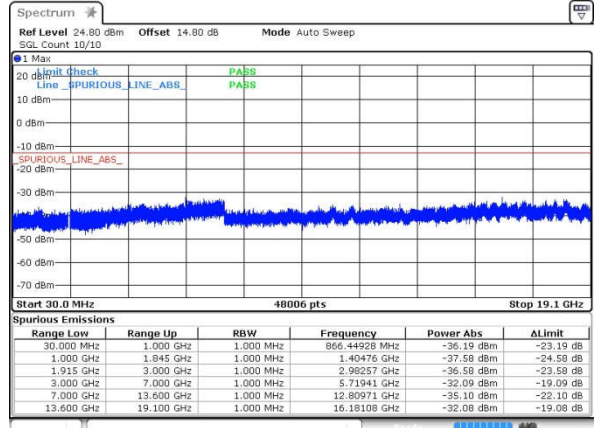
Lowest Channel



Date: 27 APR 2018 15:26:49

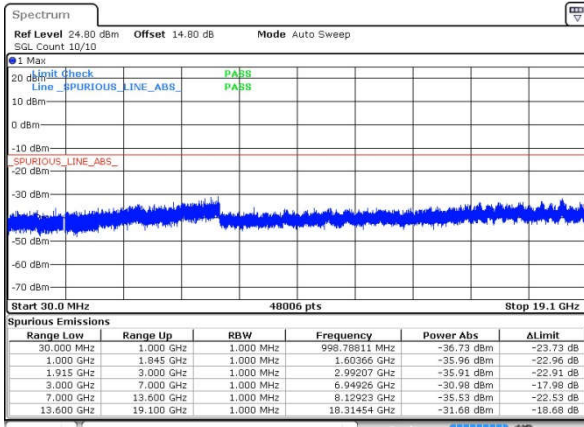
GSM1900 (EDGE class 8)

Lowest Channel

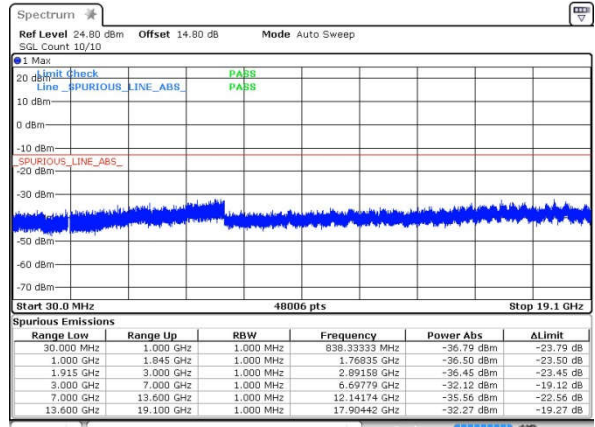


Date: 27 APR 2018 15:04:09

Middle Channel

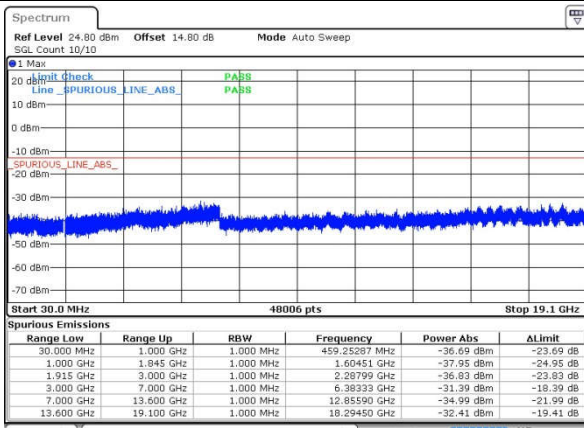


Date: 27 APR 2018 15:28:11

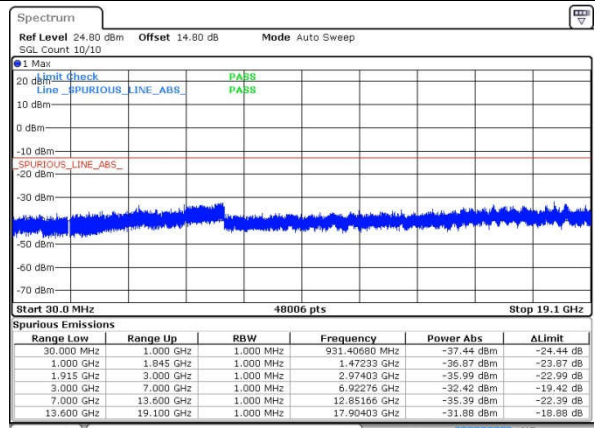


Date: 27 APR 2018 15:05:30

Highest Channel



Date: 27 APR 2018 15:30:04

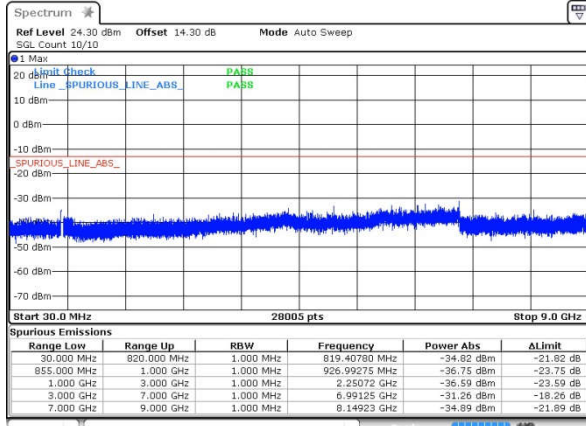


Date: 27 APR 2018 15:06:51



WCDMA Band V (RMC 12.2Kbps)

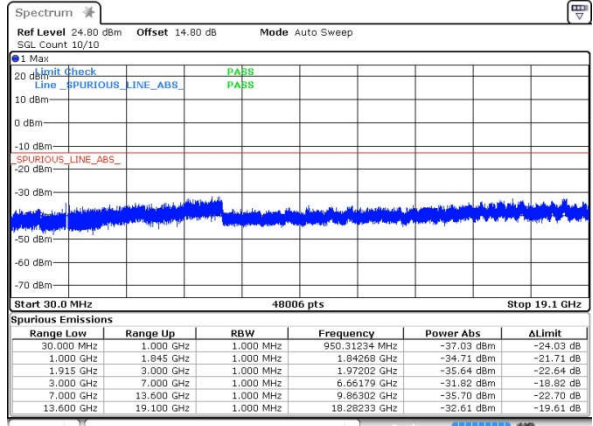
Lowest Channel



Date: 27 APR 2018 15:48:20

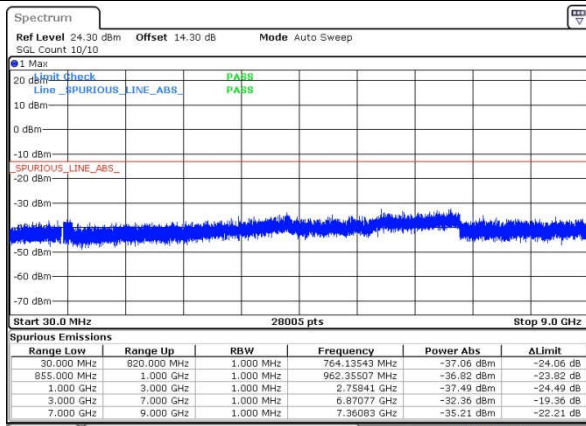
WCDMA Band II (RMC 12.2Kbps)

Lowest Channel



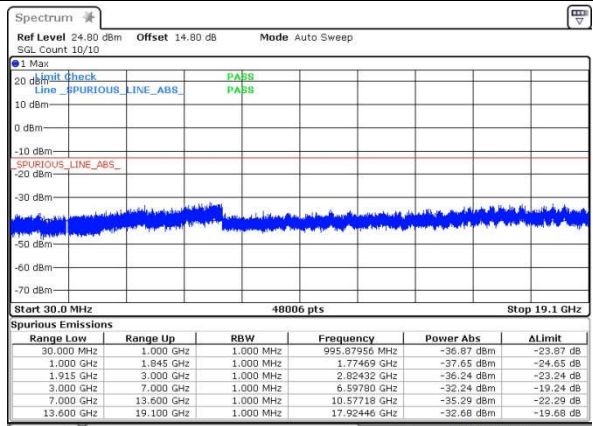
Date: 27 APR 2018 16:08:15

Middle Channel



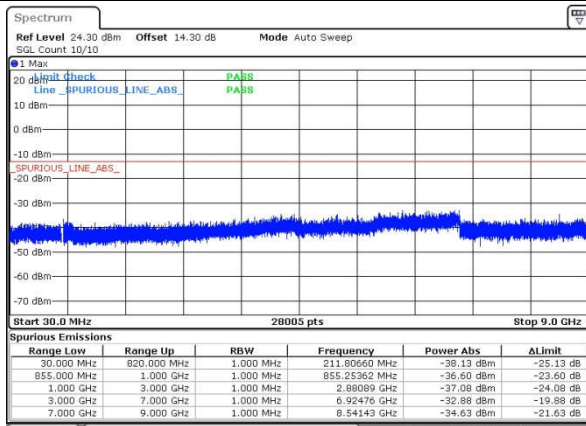
Date: 27 APR 2018 15:49:42

Middle Channel



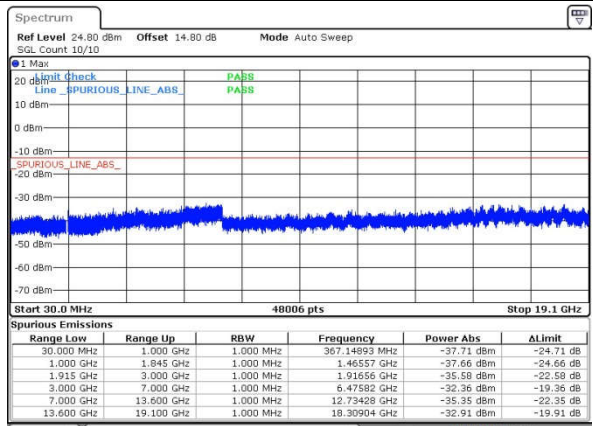
Date: 27 APR 2018 16:09:42

Highest Channel



Date: 27 APR 2018 15:51:04

Highest Channel

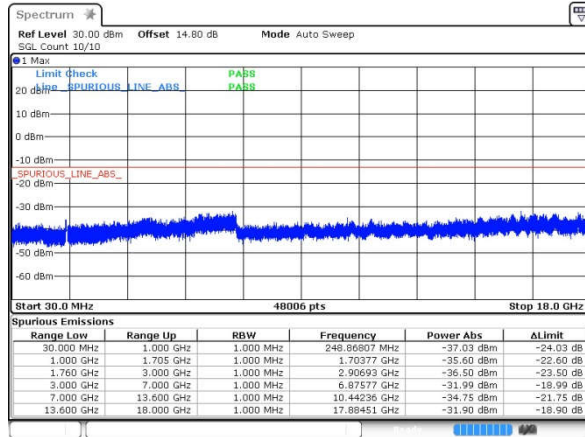


Date: 27 APR 2018 16:11:02

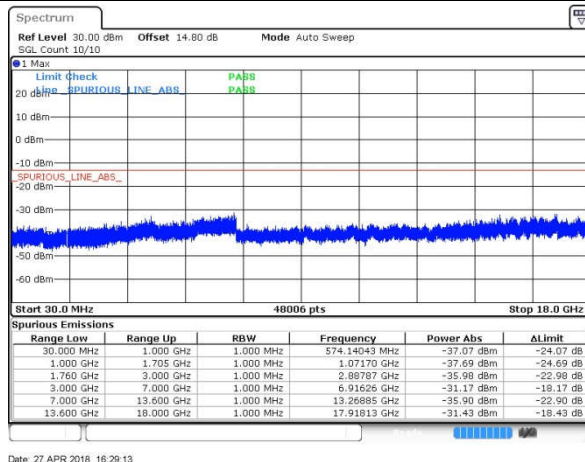


WCDMA Band IV (RMC 12.2Kbps)

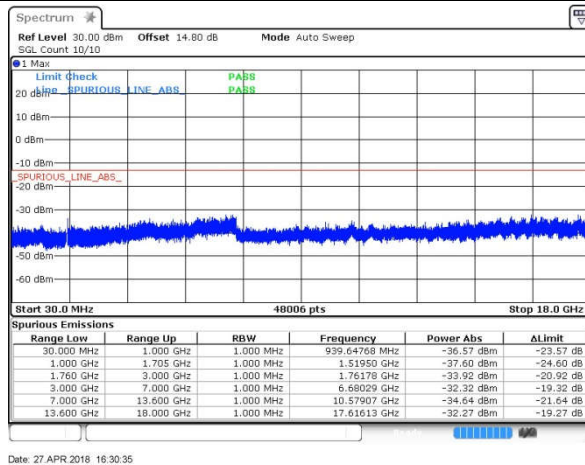
Lowest Channel



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	0.0167	0.0012	PASS
40	Normal Voltage	0.0096	0.0060	
30	Normal Voltage	0.0179	0.0036	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0598	0.0072	
0	Normal Voltage	0.0108	0.0598	
-10	Normal Voltage	0.0526	0.0658	
-20	Normal Voltage	0.0263	0.0072	
-30	Normal Voltage	0.0191	0.0048	
20	Maximum Voltage	0.0550	0.0681	
20	Normal Voltage	0.0634	0.0012	
20	Battery End Point	0.0024	0.0060	

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	0.0622	PASS
40	Normal Voltage	0.0011	0.0670	
30	Normal Voltage	0.0043	0.0644	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0064	0.0628	
0	Normal Voltage	0.0005	0.0638	
-10	Normal Voltage	0.0096	0.0590	
-20	Normal Voltage	0.0122	0.0676	
-30	Normal Voltage	0.0739	0.0005	
20	Maximum Voltage	0.0702	0.0580	
20	Normal Voltage	0.0101	0.0564	
20	Battery End Point	0.0112	0.0005	

Note:

1. Normal Voltage = 3.85 V. ; 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.



Test Conditions	Middle Channel	WCDMA Band V (RMC 12.2Kbps)	Limit 2.5ppm
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0072	PASS
40	Normal Voltage	0.0024	
30	Normal Voltage	0.0084	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0108	
0	Normal Voltage	0.0215	
-10	Normal Voltage	0.0239	
-20	Normal Voltage	0.0036	
-30	Normal Voltage	0.0048	
20	Maximum Voltage	0.0072	
20	Normal Voltage	0.0203	
20	Battery End Point	0.0096	

Test Conditions	Middle Channel	WCDMA Band II (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0016	PASS
40	Normal Voltage	0.0027	
30	Normal Voltage	0.0032	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0037	
0	Normal Voltage	0.0037	
-10	Normal Voltage	0.0069	
-20	Normal Voltage	0.0101	
-30	Normal Voltage	0.0133	
20	Maximum Voltage	0.0032	
20	Normal Voltage	0.0117	
20	Battery End Point	0.0043	

Note:

1. Normal Voltage = 3.85 V. ; Battery End Point (BEP) = 3.5V. ; Maximum Voltage = 4.35V
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	0.0017	PASS
40	Normal Voltage	0.0006	
30	Normal Voltage	0.0029	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0110	
0	Normal Voltage	0.0012	
-10	Normal Voltage	0.0075	
-20	Normal Voltage	0.0167	
-30	Normal Voltage	0.0040	
20	Maximum Voltage	0.0058	
20	Normal Voltage	0.0139	
20	Battery End Point	0.0127	

Note:

1. Normal Voltage = 3.85 V. ; Battery End Point (BEP) =3.5 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 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	-63.55	-13	-50.55	-65.26	-67.92	2.88	9.40	H
	2509.2	-55.69	-13	-42.69	-61.75	-61.64	2.5	10.60	H
	3345.6	-69.36	-13	-56.36	-77.36	-75.18	4.63	12.60	H
	1672.8	-61.56	-13	-48.56	-63.40	-65.93	2.88	9.40	V
	2509.2	-57.21	-13	-44.21	-63.16	-63.16	2.50	10.60	V
	3345.6	-69.31	-13	-56.31	-77.34	-75.13	4.63	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	-63.63	-13	-50.63	-65.34	-68.00	2.88	9.40	H
	2509.2	-45.24	-13	-32.24	-54.07	-51.19	2.5	10.60	H
	3345.6	-69.32	-13	-56.32	-77.32	-75.14	4.63	12.60	H
	1672.8	-63.88	-13	-50.88	-65.72	-68.25	2.88	9.40	V
	2509.2	-56.67	-13	-43.67	-62.62	-62.62	2.50	10.60	V
	3345.6	-69.34	-13	-56.34	-77.37	-75.16	4.63	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	-52.53	-13	-39.53	-63.78	-59.77	5.36	12.60	H
	5640	-45.97	-13	-32.97	-61.85	-51.55	7.52	13.10	H
	7520	-60.09	-13	-47.09	-78.41	-63.58	7.85	11.34	H
	3760	-51.21	-13	-38.21	-63.68	-58.45	5.36	12.60	V
	5640	-49.40	-13	-36.40	-65.72	-54.98	7.52	13.10	V
	7520	-58.36	-13	-45.36	-76.58	-61.85	7.85	11.34	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	-53.99	-13	-40.99	-65.24	-61.23	5.36	12.60	H
	5640	-46.37	-13	-33.37	-62.25	-51.95	7.52	13.10	H
	7520	-60.76	-13	-47.76	-79.08	-64.25	7.85	11.34	H
	3760	-54.72	-13	-41.72	-67.19	-61.96	5.36	12.60	V
	5640	-48.91	-13	-35.91	-65.23	-54.49	7.52	13.10	V
	7520	-58.90	-13	-45.90	-77.12	-62.39	7.85	11.34	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	-73.34	-13	-60.34	-75.05	-77.71	2.88	9.40	H
	2509.2	-65.73	-13	-52.73	-71.79	-71.68	2.5	10.60	H
	3345.6	-69.41	-13	-56.41	-77.41	-75.23	4.63	12.60	H
	1672.8	-73.22	-13	-60.22	-75.06	-77.59	2.88	9.40	V
	2509.2	-69.94	-13	-56.94	-75.89	-75.89	2.50	10.60	V
	3345.6	-69.34	-13	-56.34	-77.37	-75.16	4.63	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	3760	-64.59	-13	-51.59	-75.84	-71.83	5.36	12.60	H
	5640	-61.81	-13	-48.81	-77.69	-67.39	7.52	13.10	H
	7520	-59.99	-13	-46.99	-78.31	-63.48	7.85	11.34	H
	3760	-63.78	-13	-50.78	-76.25	-71.02	5.36	12.60	V
	5640	-61.81	-13	-48.81	-78.13	-67.39	7.52	13.10	V
	7520	-60.11	-13	-47.11	-78.33	-63.60	7.85	11.34	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	-63.05	-13	-50.05	-76.75	-70.99	4.66	12.60	H
	5197.8	-60.35	-13	-47.35	-78.28	-66.74	6.31	12.70	H
	6930.4	-59.41	-13	-46.41	-79.03	-64.06	8.35	13.00	H
	3465.2	-65.28	-13	-52.28	-76.69	-73.22	4.66	12.60	V
	5197.8	-63.92	-13	-50.92	-77.53	-70.31	6.31	12.70	V
	6930.4	-60.24	-13	-47.24	-79.36	-64.89	8.35	13.00	V

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