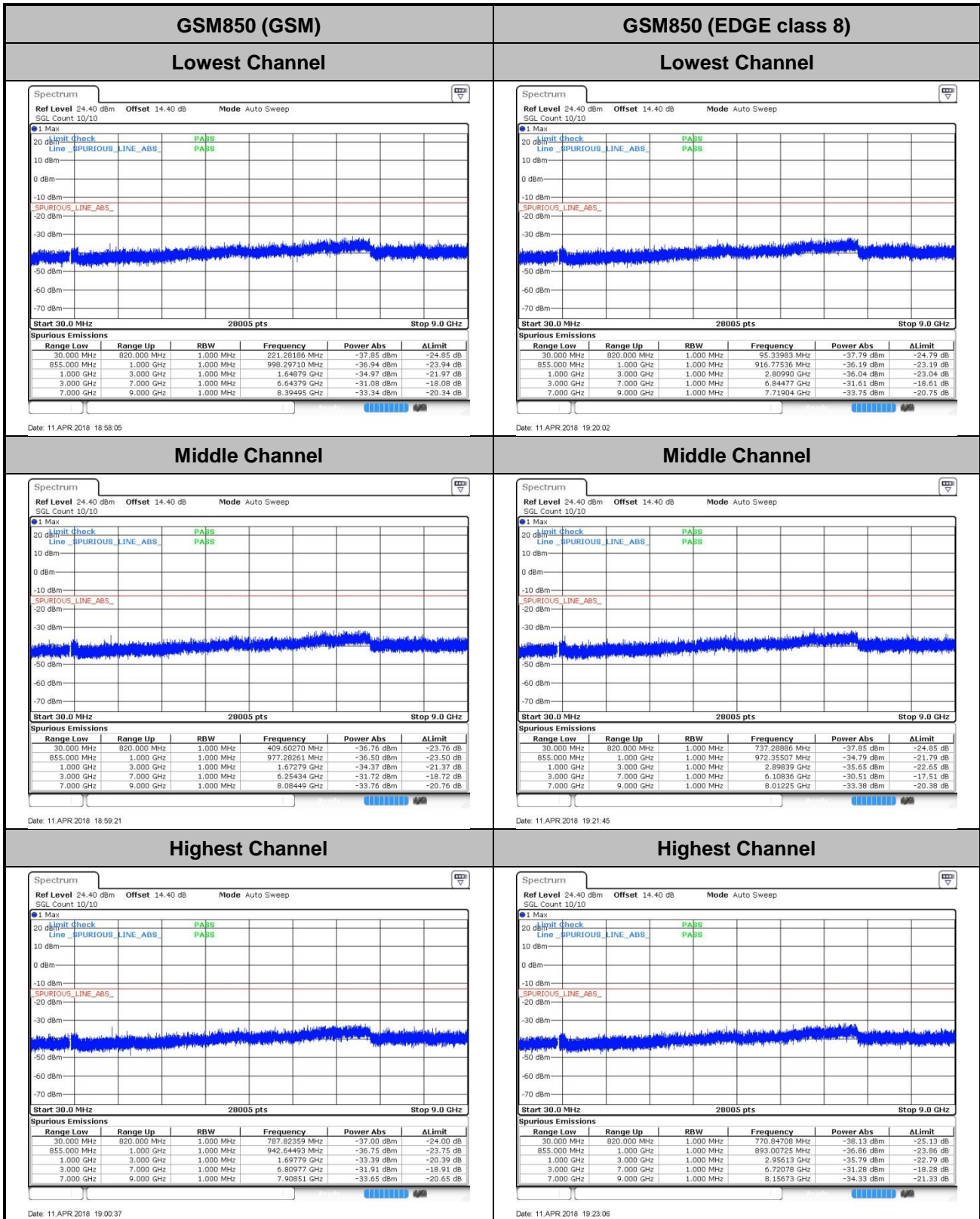
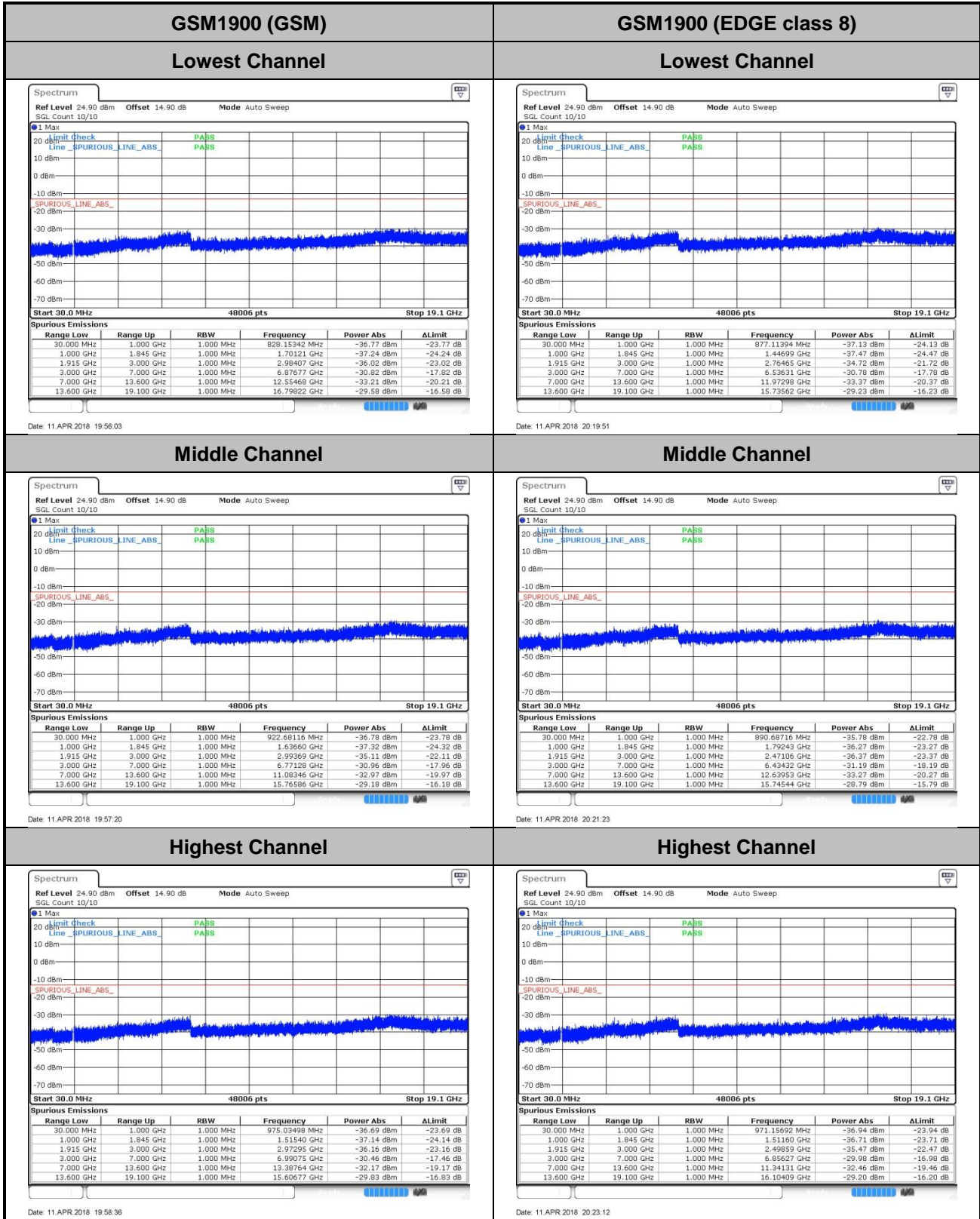




# Conducted Spurious Emission

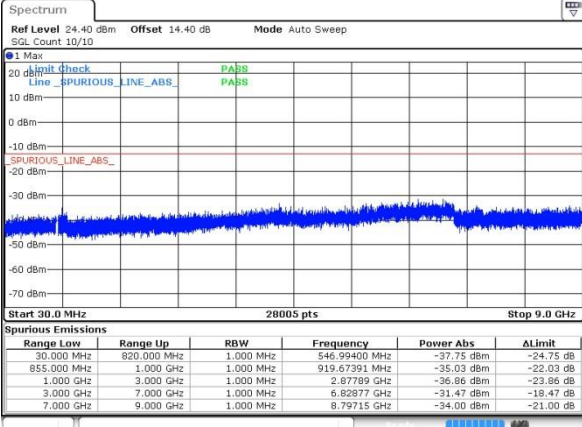






WCDMA Band V (RMC 12.2Kbps)

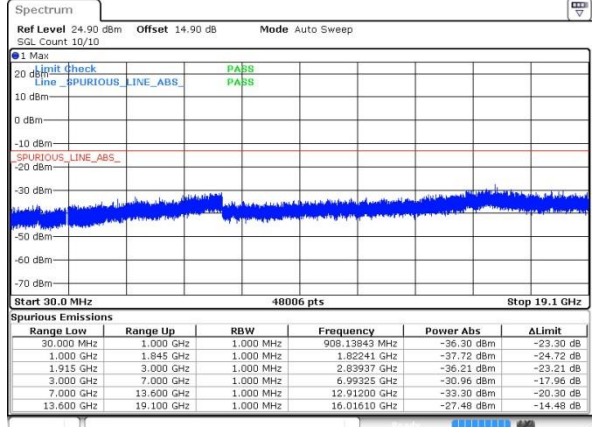
Lowest Channel



Date: 11 APR 2018 20:44:15

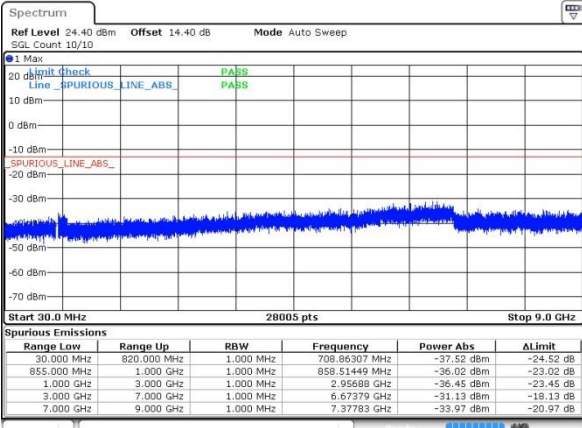
WCDMA Band II (RMC 12.2Kbps)

Lowest Channel



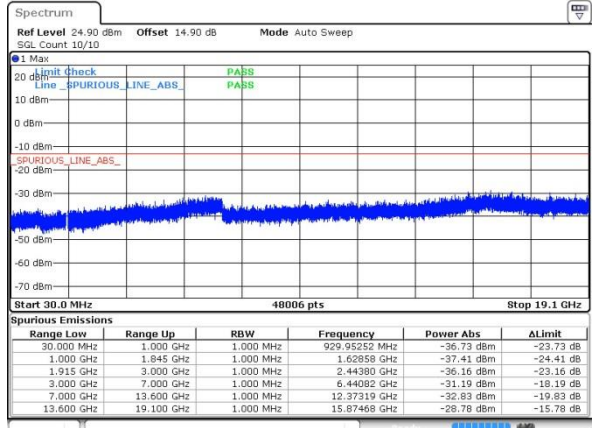
Date: 11 APR 2018 20:55:56

Middle Channel



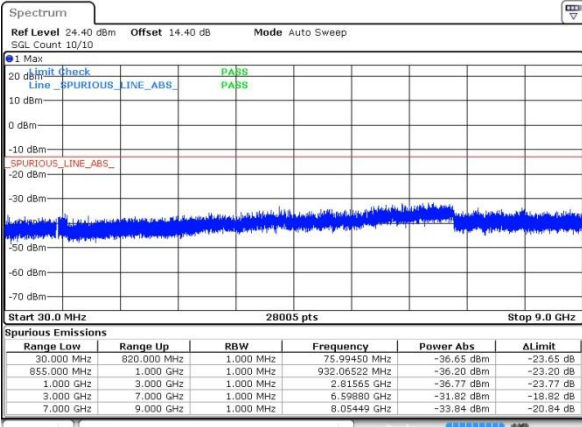
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Middle Channel



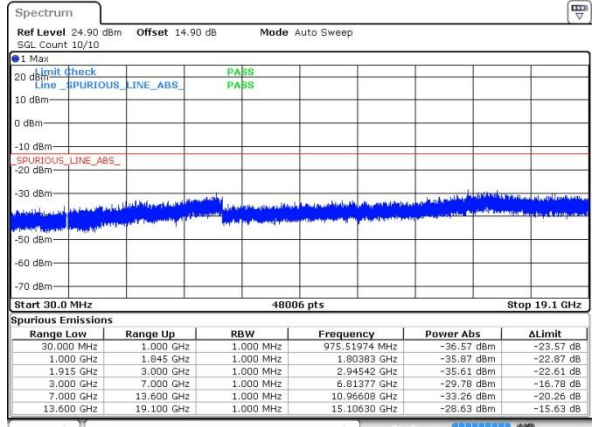
Date: 11 APR 2018 20:57:12

Highest Channel



Date: 11 APR 2018 20:46:48

Highest Channel



Date: 11 APR 2018 20:58:29



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	0.0155	0.0155	PASS
40	Normal Voltage	0.0407	0.0072	
30	Normal Voltage	0.0072	0.0299	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0371	0.0132	
0	Normal Voltage	0.0251	0.0335	
-10	Normal Voltage	0.0335	0.0275	
-20	Normal Voltage	0.0012	0.0072	
-30	Normal Voltage	0.0024	0.0239	
20	Maximum Voltage	0.0036	0.0143	
20	Normal Voltage	0.0024	0.0120	
20	Battery End Point	0.0191	0.0120	

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



Test Conditions	Middle Channel	GSM1900 (GSM)	GSM1900 (EDGE class 8)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)		Result
50	Normal Voltage	0.0032	0.0005	PASS
40	Normal Voltage	0.0043	0.0011	
30	Normal Voltage	0.0053	0.0027	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0011	0.0016	
0	Normal Voltage	0.0074	0.0191	
-10	Normal Voltage	0.0154	0.0005	
-20	Normal Voltage	0.0202	0.0032	
-30	Normal Voltage	0.0016	0.0011	
20	Maximum Voltage	0.0053	0.0165	
20	Normal Voltage	0.0021	0.0037	
20	Battery End Point	0.0128	0.0016	

Note:

1. Normal Voltage =3.85V. ; Battery End Point (BEP) =3.6V. ; Maximum Voltage =4.4V
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	0.0155	PASS
40	Normal Voltage	0.0418	
30	Normal Voltage	0.0395	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0179	
0	Normal Voltage	0.0359	
-10	Normal Voltage	0.0012	
-20	Normal Voltage	0.0203	
-30	Normal Voltage	0.0311	
20	Maximum Voltage	0.0514	
20	Normal Voltage	0.0191	
20	Battery End Point	0.0048	

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



Test Conditions	Middle Channel	WCDMA Band II (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0032	PASS
40	Normal Voltage	0.0027	
30	Normal Voltage	0.0101	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0021	
0	Normal Voltage	0.0011	
-10	Normal Voltage	0.0138	
-20	Normal Voltage	0.0133	
-30	Normal Voltage	0.0021	
20	Maximum Voltage	0.0027	
20	Normal Voltage	0.0144	
20	Battery End Point	0.0106	

**Note:**

1. Normal Voltage = 3.85V. ; Battery End Point (BEP) =3.6V. ; Maximum Voltage =4.4V
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	-54.72	-13	-41.72	-68.33	-57.97	4.00	9.40	H
	2509.2	-44.24	-13	-31.24	-63.04	-47.81	4.88	10.60	H
	3345.6	-55.89	-13	-42.89	-76.88	-60.82	5.52	12.60	H
	1672.8	-54.41	-13	-41.41	-67.51	-57.66	4.00	9.40	V
	2509.2	-44.57	-13	-31.57	-63.20	-48.14	4.88	10.60	V
	3345.6	-56.46	-13	-43.46	-77.01	-61.39	5.52	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	-57.52	-13	-44.52	-71.13	-60.77	4.00	9.40	H
	2509.2	-52.18	-13	-39.18	-70.98	-55.75	4.88	10.60	H
	3345.6	-56.53	-13	-43.53	-77.52	-61.46	5.52	12.60	H
	1672.8	-54.78	-13	-41.78	-67.88	-58.03	4.00	9.40	V
	2509.2	-46.89	-13	-33.89	-65.52	-50.46	4.88	10.60	V
	3345.6	-56.51	-13	-43.51	-77.06	-61.44	5.52	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	-43.22	-13	-30.22	-66.72	-49.97	5.85	12.60	H
	5640	-51.96	-13	-38.96	-79.23	-57.76	7.30	13.10	H
	7520	-48.07	-13	-35.07	-79.16	-51.22	8.35	11.50	H
	3760	-45.49	-13	-32.49	-68.22	-52.24	5.85	12.60	V
	5640	-52.91	-13	-39.91	-79.12	-58.71	7.30	13.10	V
	7520	-48.43	-13	-35.43	-78.94	-51.58	8.35	11.50	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	-41.56	-13	-28.56	-65.06	-48.31	5.85	12.60	H
	5640	-52.19	-13	-39.19	-79.46	-57.99	7.30	13.10	H
	7520	-48.12	-13	-35.12	-79.21	-51.27	8.35	11.50	H
	3760	-48.41	-13	-35.41	-71.14	-55.16	5.85	12.60	V
	5640	-52.92	-13	-39.92	-79.13	-58.72	7.30	13.10	V
	7520	-48.47	-13	-35.47	-78.98	-51.62	8.35	11.50	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	-61.75	-13	-48.75	-75.36	-65.00	4.00	9.40	H
	2509.2	-54.76	-13	-41.76	-73.56	-58.33	4.88	10.60	H
	3345.6	-56.41	-13	-43.41	-77.40	-61.34	5.52	12.60	H
	1672.8	-61.30	-13	-48.30	-74.40	-64.55	4.00	9.40	V
	2509.2	-54.80	-13	-41.80	-73.43	-58.37	4.88	10.60	V
	3345.6	-56.59	-13	-43.59	-77.14	-61.52	5.52	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	-53.79	-13	-40.79	-77.29	-60.54	5.85	12.60	H
	5640	-48.06	-13	-35.06	-75.33	-53.86	7.30	13.10	H
	7520	-47.77	-13	-34.77	-78.86	-50.92	8.35	11.50	H
	3760	-54.43	-13	-41.43	-77.16	-61.18	5.85	12.60	V
	5640	-50.59	-13	-37.59	-76.8	-56.39	7.30	13.10	V
	7520	-48.05	-13	-35.05	-78.56	-51.20	8.35	11.50	V

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