

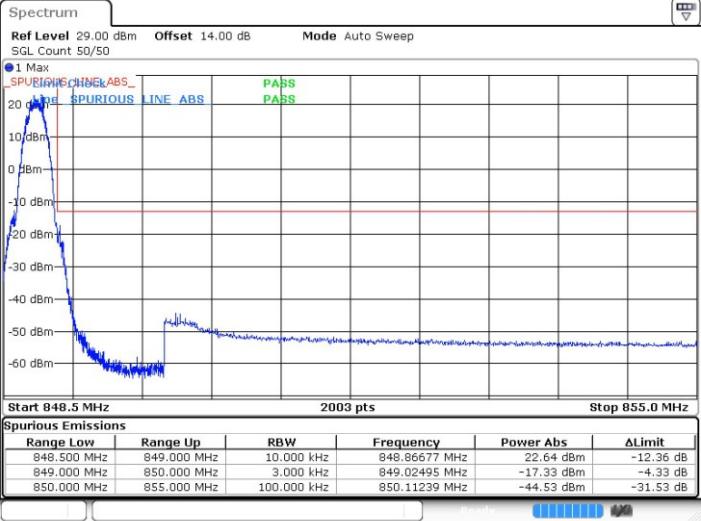
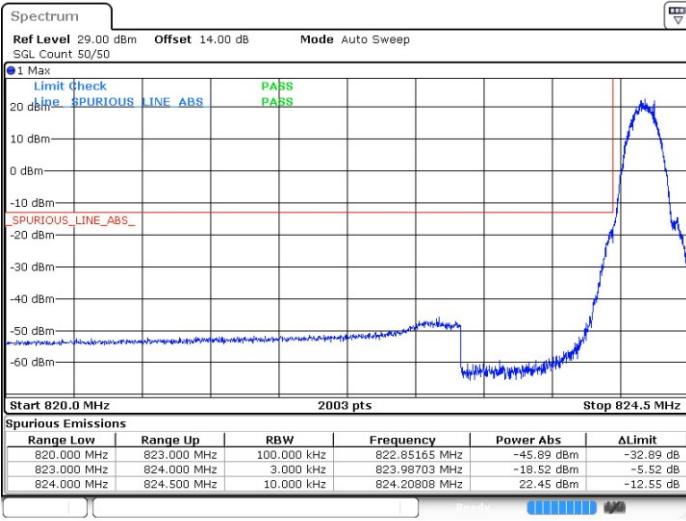


Conducted Band Edge

GSM850 (GSM)

Lowest Band Edge

Highest Band Edge



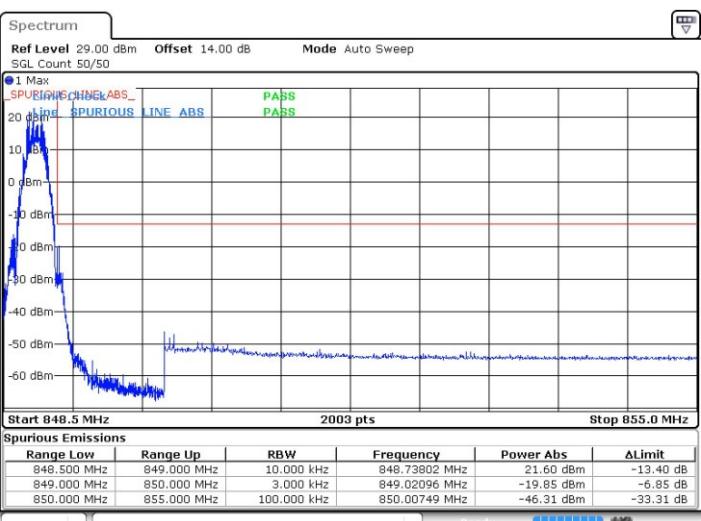
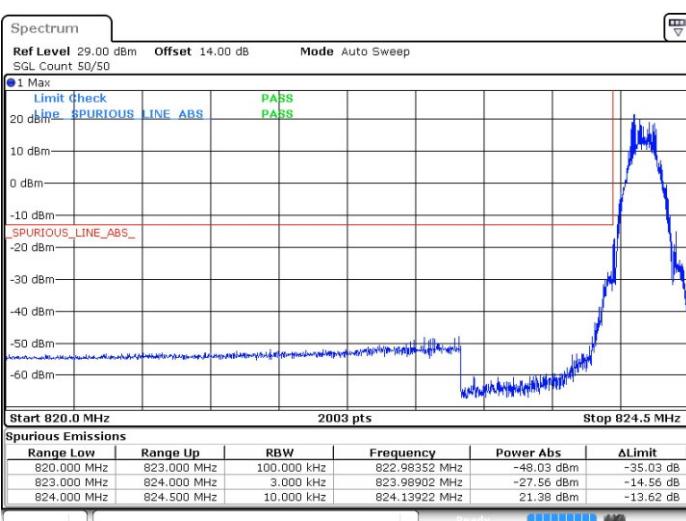
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Date: 7.NOV.2017 20:20:09

GSM850 (EDGE class 8)

Lowest Band Edge

Highest Band Edge



Date: 7.NOV.2017 21:15:35

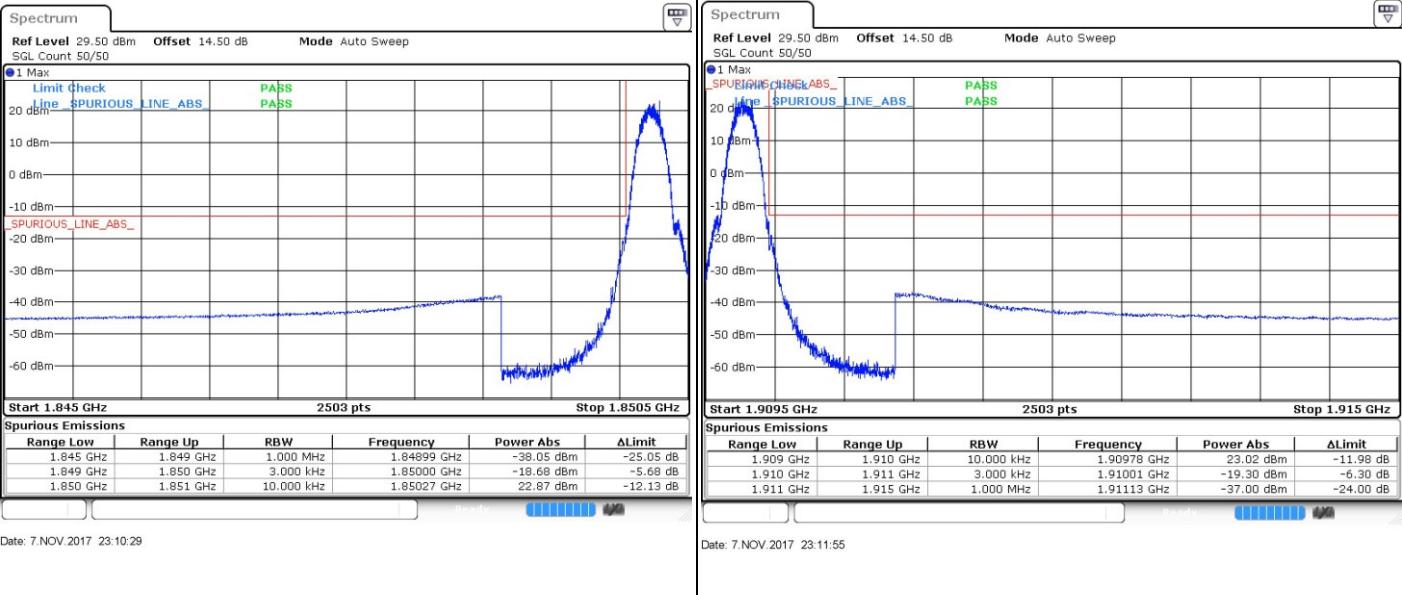
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GSM1900 (GSM)

Lowest Band Edge

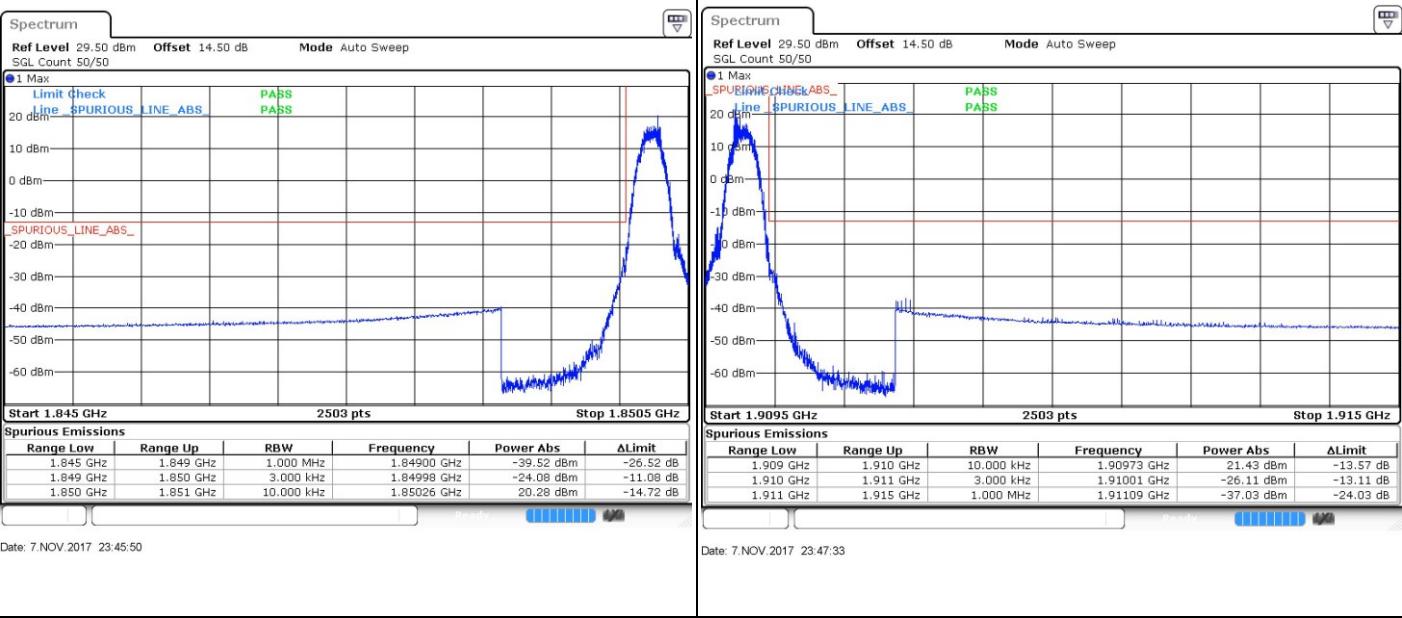
Highest Band Edge

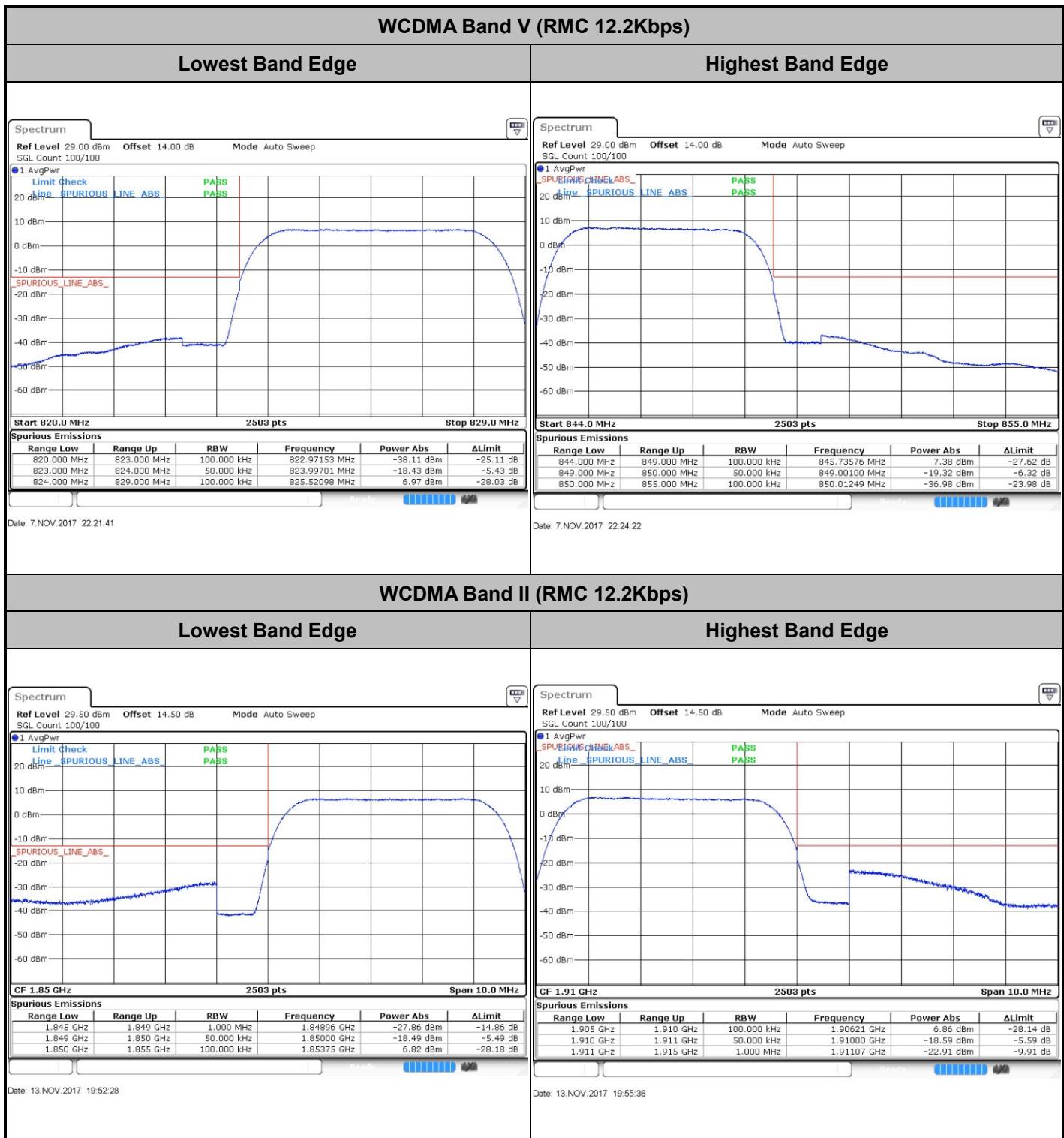


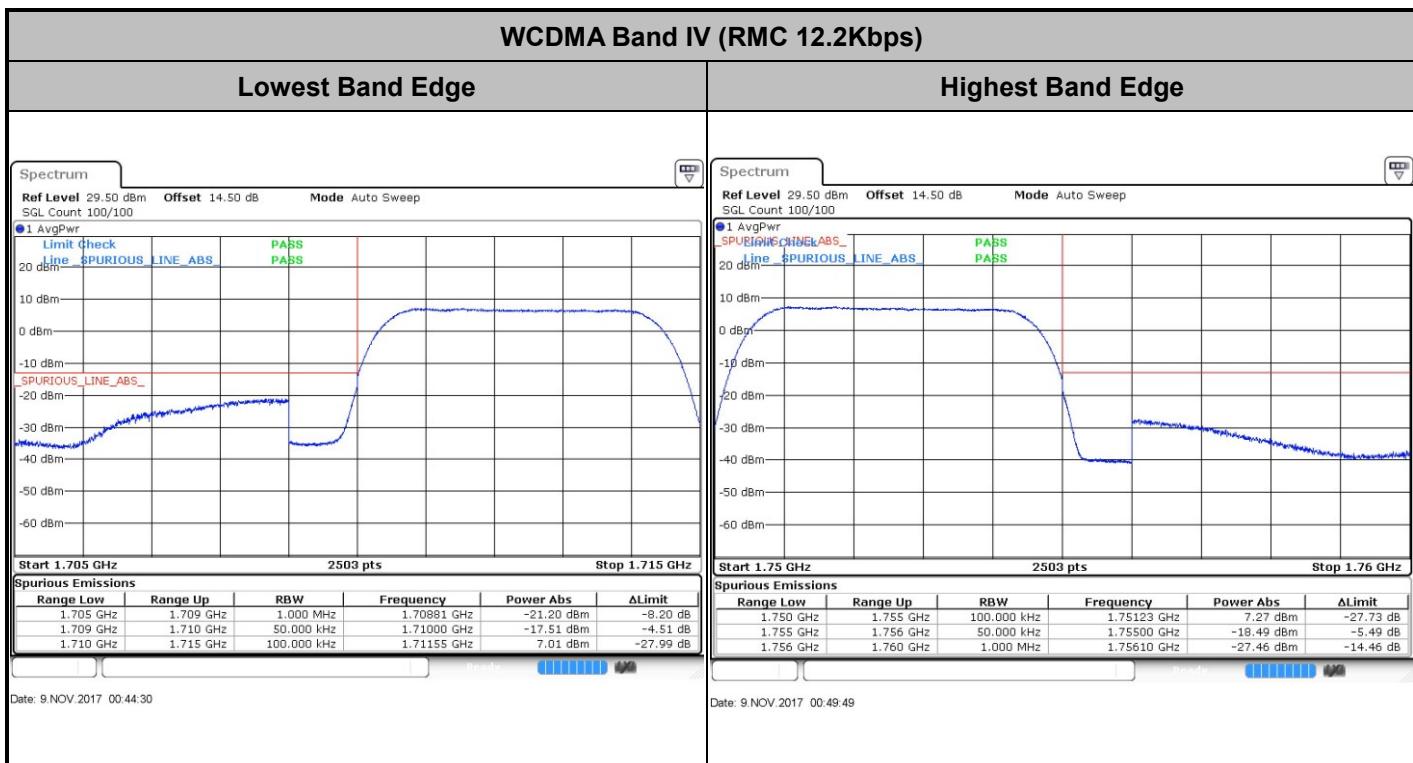
GSM1900 (EDGE class 8)

Lowest Band Edge

Highest Band Edge

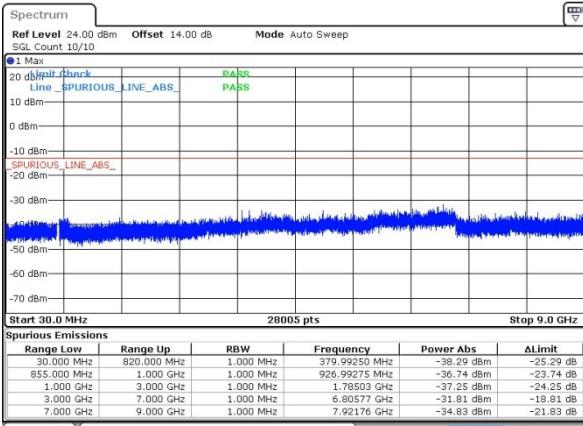
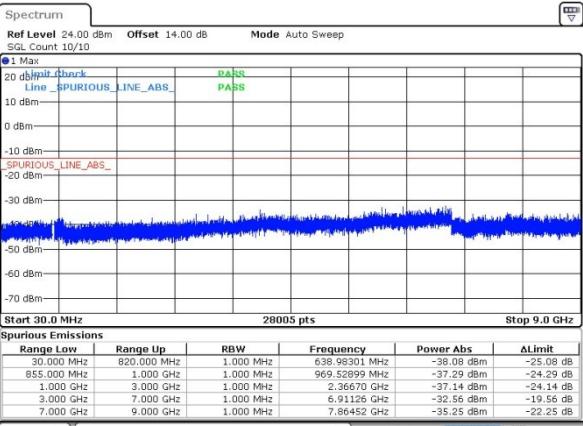
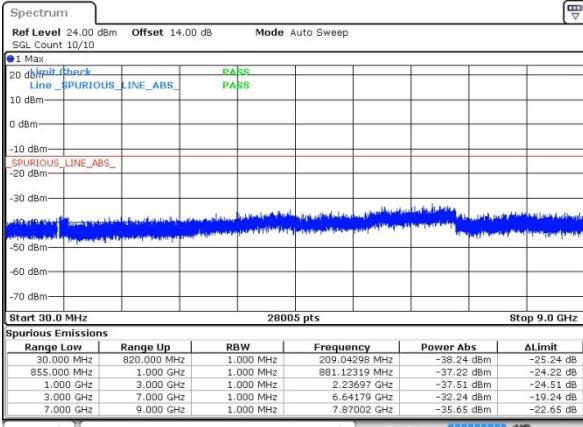
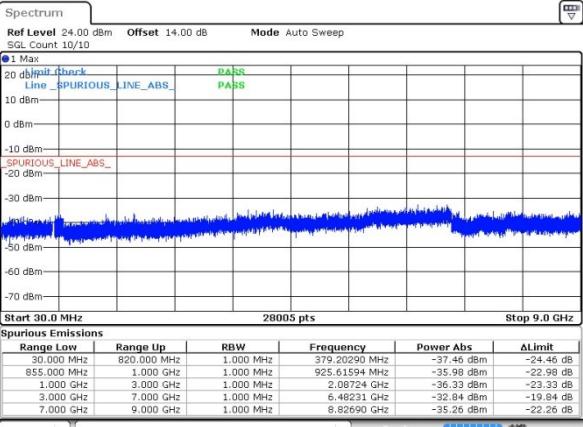
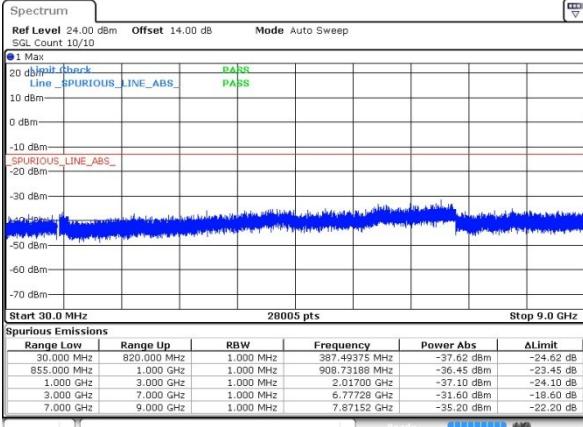
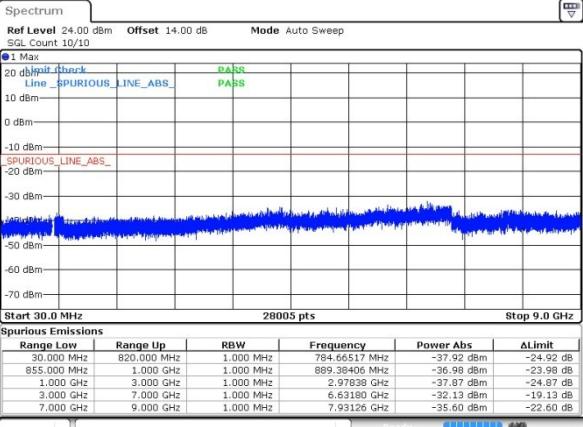


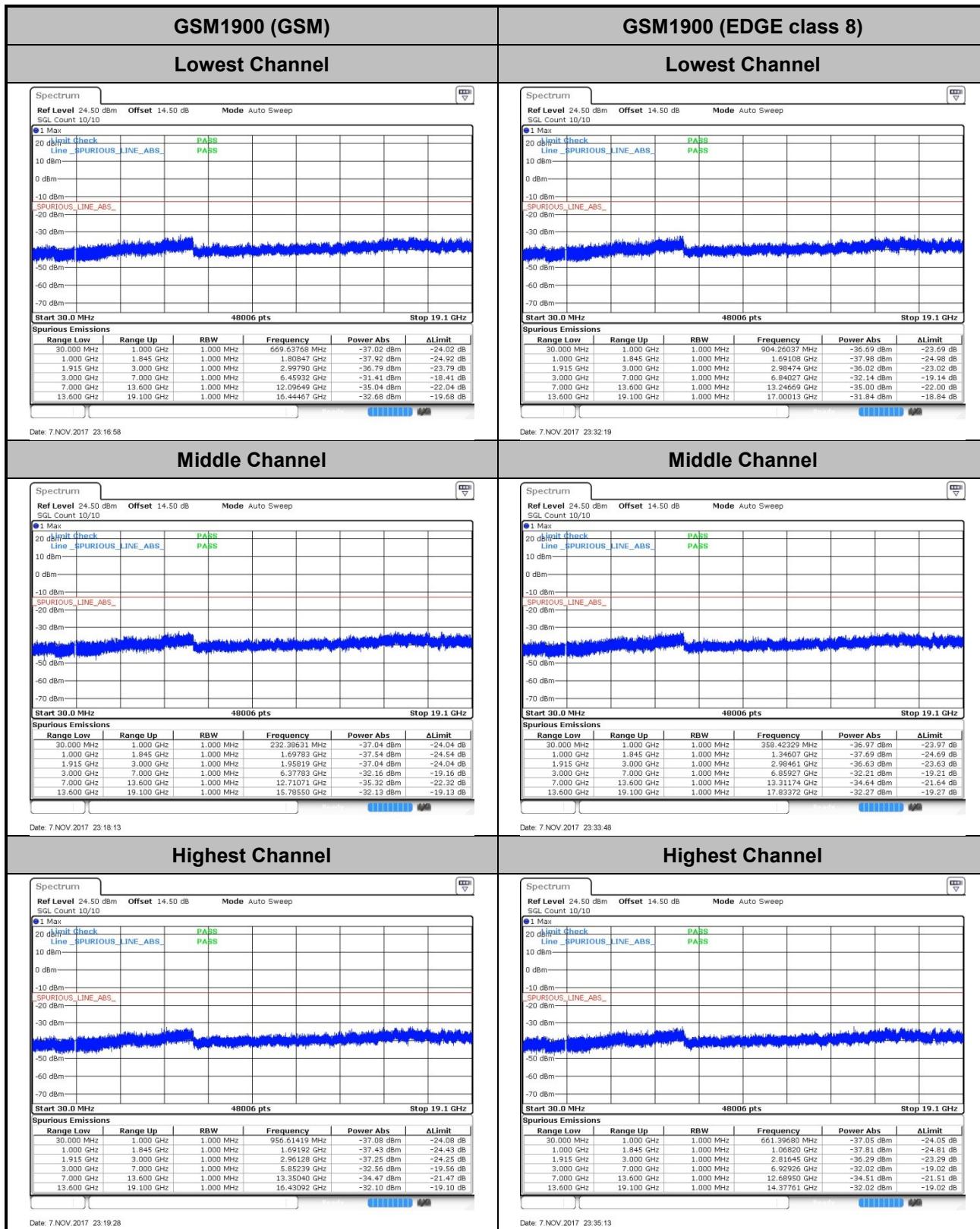


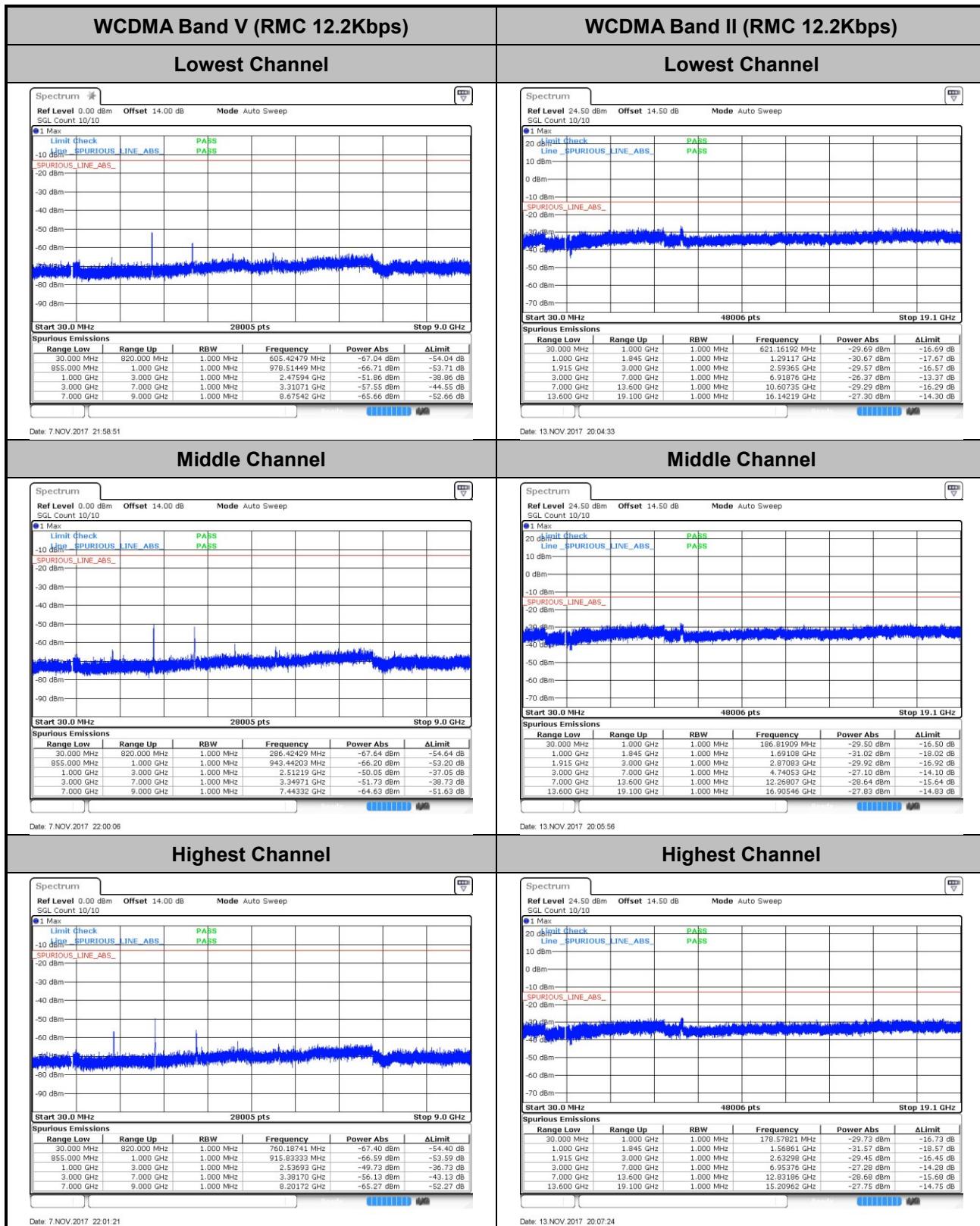




Conducted Spurious Emission

GSM850 (GSM)	GSM850 (EDGE class 8)																																																																								
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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	0.0035	0.0036	PASS
40	Normal Voltage	0.0014	0.0005	
30	Normal Voltage	0.0006	0.0006	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0047	0.0010	
0	Normal Voltage	0.0071	0.0060	
-10	Normal Voltage	0.0090	0.0061	
-20	Normal Voltage	0.0097	0.0132	
-30	Normal Voltage	0.0097	0.0132	
20	Maximum Voltage	0.0010	0.0071	
20	Normal Voltage	0.0067	0.0002	
20	Battery End Point	0.0039	0.0041	

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	0.0031	PASS
40	Normal Voltage	0.0003	0.0018	
30	Normal Voltage	0.0002	0.0002	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0011	0.0007	
0	Normal Voltage	0.0038	0.0045	
-10	Normal Voltage	0.0027	0.0040	
-20	Normal Voltage	0.0067	0.0115	
-30	Normal Voltage	0.0067	0.0115	
20	Maximum Voltage	0.0019	0.0032	
20	Normal Voltage	0.0011	0.0006	
20	Battery End Point	0.0055	0.0060	

Note:

1. Normal Voltage = 3.85 V. ; Battery End Point (BEP) = 3.4 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	0.0016	PASS
40	Normal Voltage	0.0020	
30	Normal Voltage	0.0001	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0024	
0	Normal Voltage	0.0014	
-10	Normal Voltage	0.0022	
-20	Normal Voltage	0.0054	
-30	Normal Voltage	0.0054	
20	Maximum Voltage	0.0022	
20	Normal Voltage	0.0024	
20	Battery End Point	0.0022	

Test Conditions	Middle Channel	WCDMA Band II (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0053	PASS
40	Normal Voltage	0.0035	
30	Normal Voltage	0.0016	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0031	
0	Normal Voltage	0.0035	
-10	Normal Voltage	0.0053	
-20	Normal Voltage	0.0069	
-30	Normal Voltage	0.0069	
20	Maximum Voltage	0.0043	
20	Normal Voltage	0.0028	
20	Battery End Point	0.0025	

Note:

1. Normal Voltage = 3.85V. ; Battery End Point (BEP) =3.4V. ; 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 IV (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0016	PASS
40	Normal Voltage	0.0021	
30	Normal Voltage	0.0002	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0002	
0	Normal Voltage	0.0008	
-10	Normal Voltage	0.0028	
-20	Normal Voltage	0.0036	
-30	Normal Voltage	0.0036	
20	Maximum Voltage	0.0006	
20	Normal Voltage	0.0020	
20	Battery End Point	0.0011	

Note:

1. Normal Voltage = 3.85V. ; Battery End Point (BEP) =3.4V. ; 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 Radiated 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	-48.71	-13	-35.71	-52.57	-53.08	2.88	9.40	H
	2509.2	-60.46	-13	-47.46	-66.52	-66.41	2.5	10.60	H
	3345.6	-67.58	-13	-54.58	-75.58	-73.40	4.63	12.60	H
	4182	-63.06	-13	-50.06	-75.14	-68.49	5.02	12.60	H
	1672.8	-51.47	-13	-38.47	-54.34	-55.84	2.88	9.40	V
	2509.2	-58.67	-13	-45.67	-64.62	-64.62	2.50	10.60	V
	3345.6	-65.44	-13	-52.44	-73.47	-71.26	4.63	12.60	V
	4182	-61.91	-13	-48.91	-73.87	-67.34	5.02	12.60	V

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

EDGE 850 (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	-50.56	-13	-37.56	-53.74	-54.93	2.88	9.40	H
	2509.2	-59.27	-13	-46.27	-65.33	-65.22	2.5	10.60	H
	3345.6	-68.59	-13	-55.59	-76.59	-74.41	4.63	12.60	H
	4182	-64.99	-13	-51.99	-77.07	-70.42	5.02	12.60	H
	1672.8	-53.09	-13	-40.09	-55.58	-57.46	2.88	9.40	V
	2509.2	-58.57	-13	-45.57	-64.52	-64.52	2.50	10.60	V
	3345.6	-65.91	-13	-52.91	-73.94	-71.73	4.63	12.60	V
	4182	-62.97	-13	-49.97	-74.93	-68.42	5.02	12.62	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	-59.82	-13	-46.82	-73.44	-67.42	5	12.60	H
	5640	-40.30	-13	-27.30	-56.90	-46.10	7.3	13.10	H
	7520	-58.53	-13	-45.53	-78.51	-62.10	7.73	11.30	H
	9400	-51.99	-13	-38.99	-76.71	-55.77	8.12	11.90	H
	3760	-53.59	-13	-40.59	-67.92	-61.17	5.02	12.6	V
	5640	-38.22	-13	-25.22	-51.61	-44.02	7.3	13.1	V
	7520	-56.43	-13	-43.43	-76.07	-60.00	7.73	11.3	V
	9400	-52.65	-13	-39.65	-76.63	-56.43	8.12	11.9	V

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

EDGE1900 (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	-59.45	-13	-46.45	-73.07	-67.03	5.02	12.60	H
	5640	-34.75	-13	-21.75	-53.35	-40.55	7.3	13.10	H
	7520	-58.48	-13	-45.48	-78.46	-62.05	7.73	11.30	H
	9400	-52.49	-13	-39.49	-77.21	-56.27	8.12	11.90	H
	3760	-50.92	-13	-37.92	-65.25	-58.50	5.02	12.6	V
	5640	-44.22	-13	-31.22	-60.75	-50.02	7.3	13.1	V
	7520	-58.58	-13	-45.58	-78.22	-62.15	7.73	11.3	V
	9400	-52.13	-13	-39.13	-76.11	-55.91	8.12	11.9	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	-68.86	-13	-55.86	-70.57	-73.23	2.88	9.40	H
	2509.2	-68.50	-13	-55.50	-74.56	-74.45	2.5	10.60	H
	3345.6	-67.91	-13	-54.91	-75.91	-73.73	4.63	12.60	H
	1672.8	-67.82	-13	-54.82	-69.66	-72.19	2.88	9.40	V
	2509.2	-66.30	-13	-53.30	-72.25	-72.25	2.50	10.60	V
	3345.6	-68.27	-13	-55.27	-76.30	-74.09	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	-61.97	-13	-48.97	-75.59	-69.55	5.02	12.60	H
	5640	-47.82	-13	-34.82	-64.42	-53.62	7.3	13.10	H
	7520	-57.26	-13	-44.26	-77.24	-60.83	7.73	11.30	H
	3760	-61.92	-13	-48.92	-76.25	-69.50	5.02	12.6	V
	5640	-47.01	-13	-34.01	-63.54	-52.81	7.3	13.1	V
	7520	-58.69	-13	-45.69	-78.33	-62.26	7.73	11.3	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	-56.60	-13	-43.60	-70.30	-64.57	4.63	12.60	H
	5197.8	-46.74	-13	-33.74	-64.67	-53.19	6.25	12.70	H
	6930.4	-58.09	-13	-45.09	-77.71	-62.86	8.23	13.00	H
	3465.2	-58.33	-13	-45.33	-69.74	-66.30	4.63	12.6	V
	5197.8	-55.12	-13	-42.12	-68.73	-61.57	6.25	12.7	V
	6930.4	-53.84	-13	-40.84	-72.96	-58.61	8.23	13	V

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