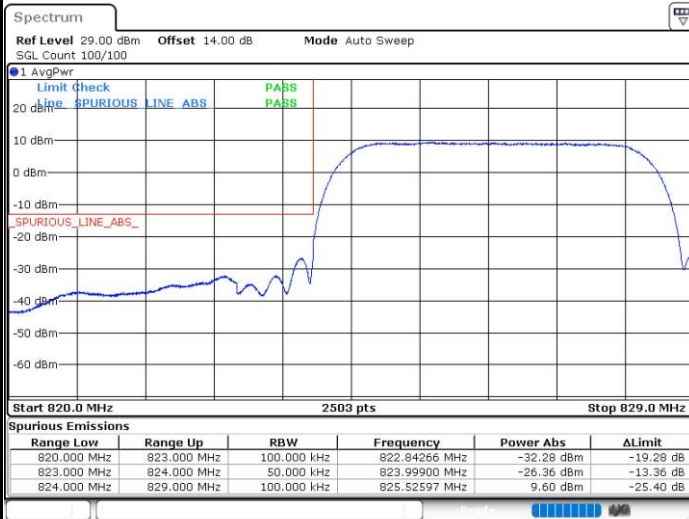




Conducted Band Edge

WCDMA Band V (RMC 12.2Kbps)

Lowest Band Edge

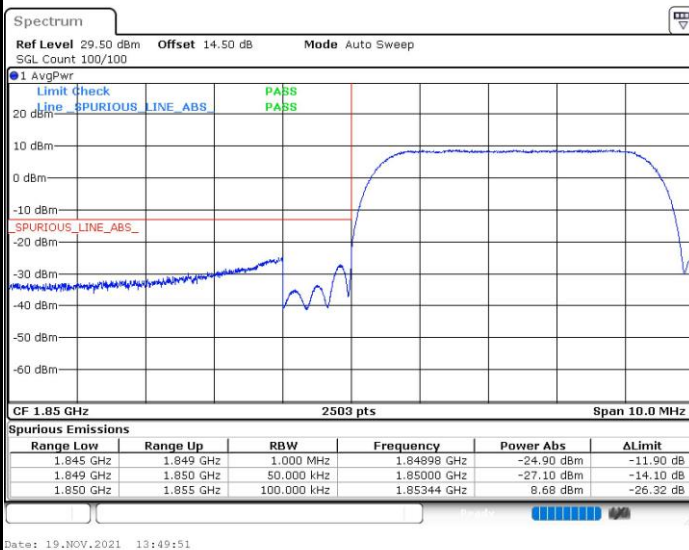


Highest Band Edge

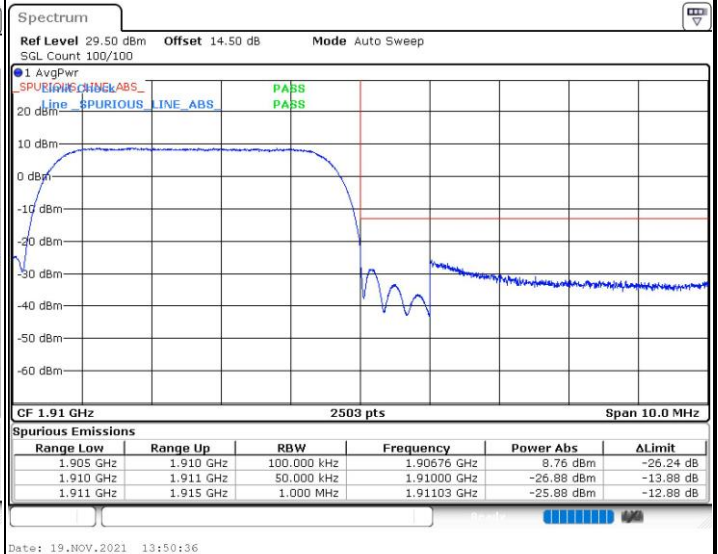


WCDMA Band II (RMC 12.2Kbps)

Lowest Band Edge



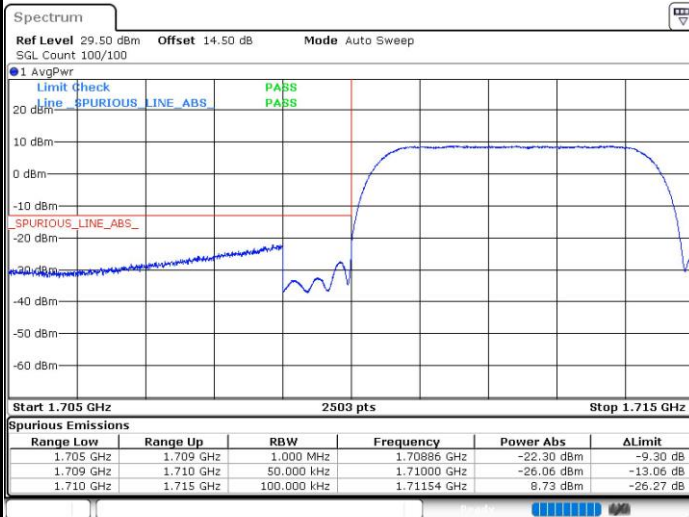
Highest Band Edge





WCDMA Band IV (RMC 12.2Kbps)

Lowest Band Edge



Highest Band Edge

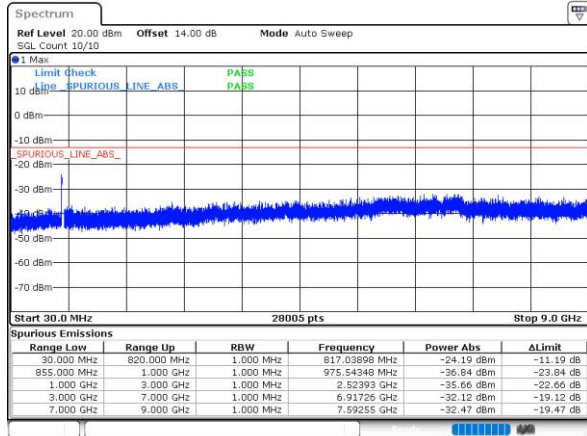




Conducted Spurious Emission

WCDMA Band V (RMC 12.2Kbps)

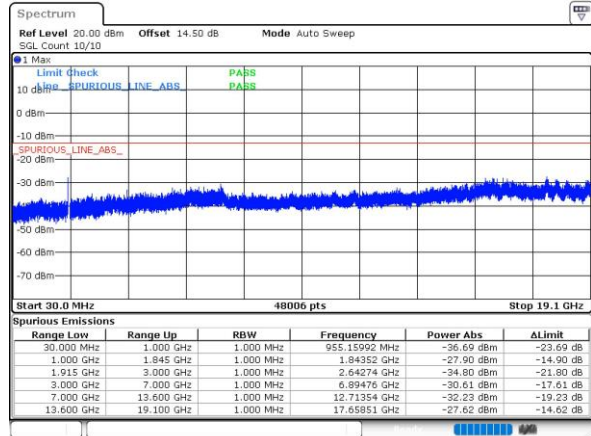
Lowest Channel



Date: 19.NOV.2021 14:00:34

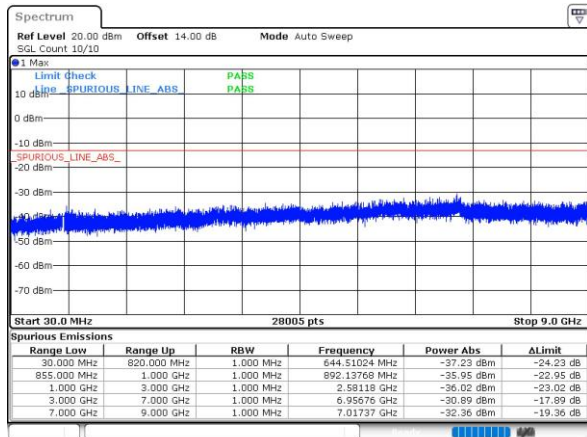
WCDMA Band II (RMC 12.2Kbps)

Lowest Channel



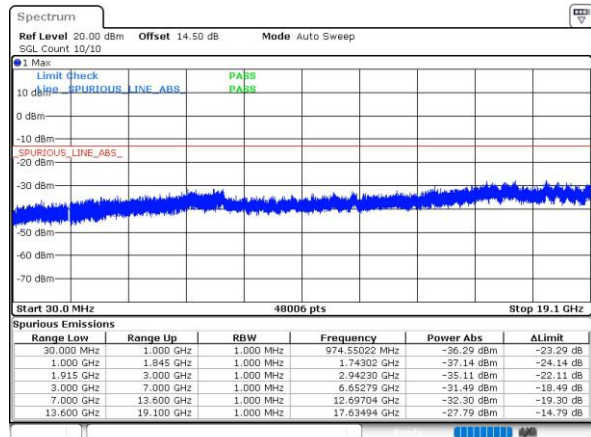
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Middle Channel



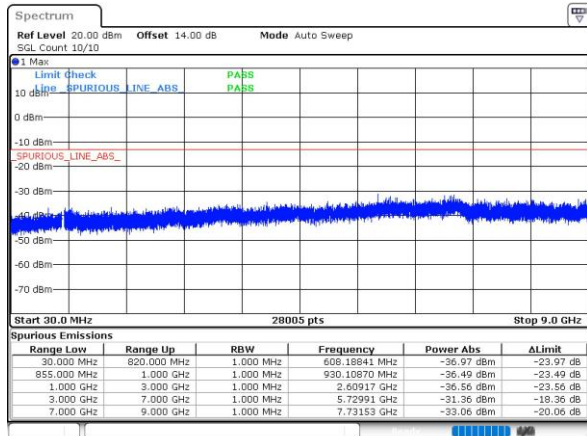
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Middle Channel



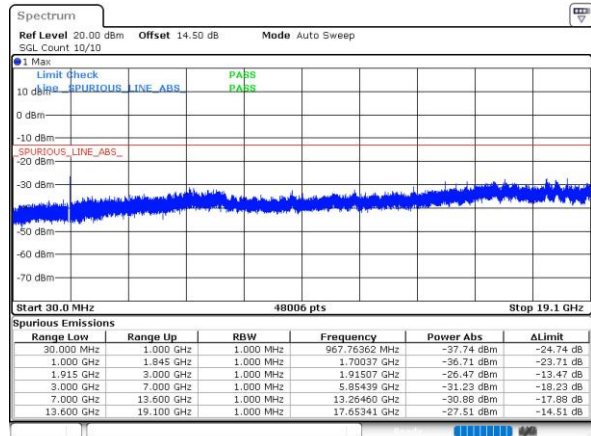
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Highest Channel

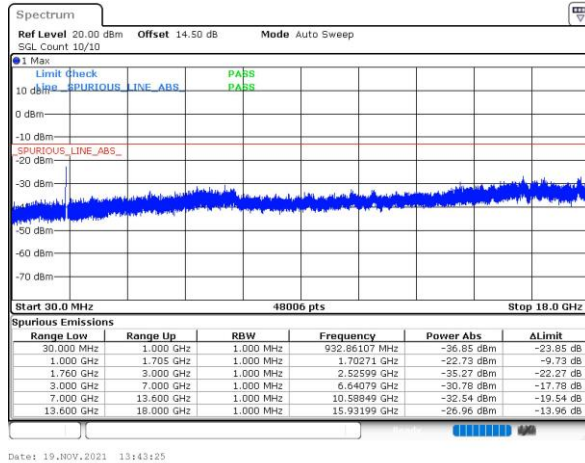
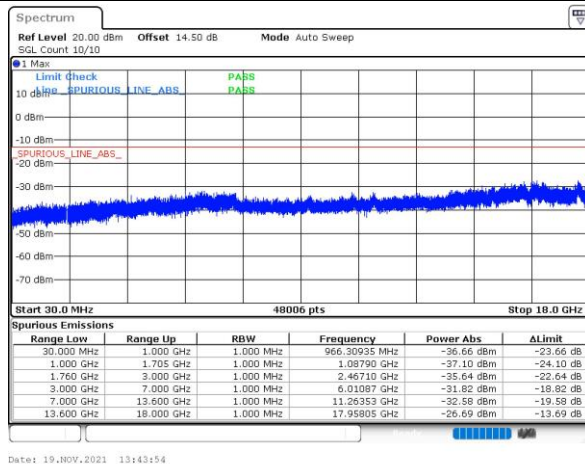
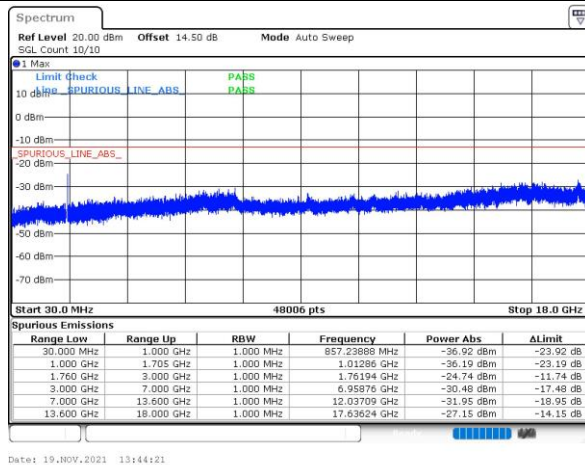


Date: 19.NOV.2021 14:01:14

Highest Channel



Date: 19.NOV.2021 13:51:49

WCDMA Band IV (RMC 12.2Kbps)
Lowest Channel

Middle Channel

Highest Channel


**Frequency Stability**

Test Conditions	Middle Channel	WCDMA Band V (RMC 12.2Kbps)	Limit 2.5ppm
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0053	PASS
40	Normal Voltage	0.0016	
30	Normal Voltage	0.0050	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0030	
0	Normal Voltage	0.0012	
-10	Normal Voltage	0.0010	
-20	Normal Voltage	0.0029	
-30	Normal Voltage	0.0064	
20	Maximum Voltage	0.0051	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0005	

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	0.0017	
30	Normal Voltage	0.0047	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0024	
0	Normal Voltage	0.0005	
-10	Normal Voltage	0.0002	
-20	Normal Voltage	0.0016	
-30	Normal Voltage	0.0057	
20	Maximum Voltage	0.0022	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0036	



Test Conditions	Middle Channel	WCDMA Band IV (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0042	PASS
40	Normal Voltage	0.0020	
30	Normal Voltage	0.0017	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0022	
0	Normal Voltage	0.0007	
-10	Normal Voltage	0.0005	
-20	Normal Voltage	0.0042	
-30	Normal Voltage	0.0023	
20	Maximum Voltage	0.0007	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0103	

Note:

1. Normal Voltage = 7.74V. ; Battery End Point (BEP) = 6.6 V. ; Maximum Voltage =8.9 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

Radiated Spurious Emission

Test Engineer :	Eason	Temperature :	22~25°C
		Relative Humidity :	48~52%

GSM850 (GSM)-Ant.0

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	-61.50	-13	-48.50	-71.69	-64.75	4.00	9.40	H
	2509.2	-50.16	-13	-37.16	-65.27	-53.73	4.88	10.60	H
	3345.6	-61.87	-13	-48.87	-79.12	-66.80	5.52	12.60	H
	4182	-57.02	-13	-44.02	-79.21	-61.95	5.52	12.60	H
	1672.8	-54.64	-13	-41.64	-64.28	-57.89	4.00	9.40	V
	2509.2	-52.37	-13	-39.37	-67.44	-55.94	4.88	10.60	V
	3345.6	-62.40	-13	-49.40	-79.38	-67.33	5.52	12.60	V

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

GSM850 (GSM) -Ant.1

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	-64.21	-13	-51.21	-74.40	-67.46	4.00	9.40	H
	2509.2	-54.25	-13	-41.25	-69.36	-57.82	4.88	10.60	H
	3345.6	-61.87	-13	-48.87	-79.12	-66.80	5.52	12.60	H
	1672.8	-64.24	-13	-51.24	-73.88	-67.49	4.00	9.40	V
	2509.2	-53.77	-13	-40.77	-68.84	-57.34	4.88	10.60	V
	3345.6	-62.19	-13	-49.19	-79.17	-67.12	5.52	12.60	V

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

GSM850 (EDGE 1 Tx slots) -Ant.0

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	-53.83	-13	-40.83	-64.02	-57.08	4.00	9.40	H
	2509.2	-37.58	-13	-24.58	-52.69	-41.15	4.88	10.60	H
	3345.6	-61.88	-13	-48.88	-79.13	-66.81	5.52	12.60	H
	4182	-47.79	-13	-34.79	-69.98	-52.72	5.52	12.60	H
	1672.8	-65.57	-13	-52.57	-75.21	-68.82	4.00	9.40	V
	2509.2	-42.53	-13	-29.53	-57.60	-46.10	4.88	10.60	V
	3345.6	-62.30	-13	-49.30	-79.28	-67.23	5.52	12.60	V
	4182	-52.41	-13	-39.41	-74.61	-57.34	5.52	12.60	V

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



GSM850 (EDGE 1 Tx slots) -Ant.1

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	-60.59	-13	-47.59	-70.78	-63.84	4.00	9.40	H
	2509.2	-48.80	-13	-35.80	-63.91	-52.37	4.88	10.60	H
	3345.6	-61.83	-13	-48.83	-79.08	-66.76	5.52	12.60	H
	1672.8	-61.55	-13	-48.55	-71.19	-64.80	4.00	9.40	V
	2509.2	-48.62	-13	-35.62	-63.69	-52.19	4.88	10.60	V
	3345.6	-62.04	-13	-49.04	-79.02	-66.97	5.52	12.60	V

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

GSM1900 (GPRS 1 Tx slots) -Ant.0

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	-58.79	-13	-45.79	-79.35	-65.54	5.85	12.60	H
	5640	-56.10	-13	-43.10	-81.45	-61.90	7.30	13.10	H
	7520	-51.87	-13	-38.87	-80.43	-55.02	8.35	11.50	H
	3760	-59.02	-13	-46.02	-79.51	-65.77	5.85	12.60	V
	5640	-56.65	-13	-43.65	-81.25	-62.45	7.30	13.10	V
	7520	-51.74	-13	-38.74	-80.28	-54.89	8.35	11.50	V

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

GSM1900 (GPRS 1 Tx slots) -Ant.1

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	-58.14	-13	-45.14	-78.70	-64.89	5.85	12.60	H
	5640	-55.95	-13	-42.95	-81.30	-61.75	7.30	13.10	H
	7520	-51.87	-13	-38.87	-80.43	-55.02	8.35	11.50	H
	3760	-59.00	-13	-46.00	-79.49	-65.75	5.85	12.60	V
	5640	-56.47	-13	-43.47	-81.07	-62.27	7.30	13.10	V
	7520	-52.10	-13	-39.10	-80.64	-55.25	8.35	11.50	V

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

GSM1900 (EDGE 1 Tx slots) -Ant.0

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	-58.70	-13	-45.70	-79.26	-65.45	5.85	12.60	H
	5640	-55.84	-13	-42.84	-81.19	-61.64	7.30	13.10	H
	7520	-51.82	-13	-38.82	-80.38	-54.97	8.35	11.50	H
	3760	-59.05	-13	-46.05	-79.54	-65.80	5.85	12.60	V
	5640	-56.38	-13	-43.38	-80.98	-62.18	7.30	13.10	V
	7520	-52.04	-13	-39.04	-80.58	-55.19	8.35	11.50	V

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



GSM1900 (EDGE 1 Tx slots) -Ant.1									
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	-58.50	-13	-45.50	-79.06	-65.25	5.85	12.60	H
	5640	-55.88	-13	-42.88	-81.23	-61.68	7.30	13.10	H
	7520	-51.78	-13	-38.78	-80.34	-54.93	8.35	11.50	H
	3760	-58.82	-13	-45.82	-79.31	-65.57	5.85	12.60	V
	5640	-56.71	-13	-43.71	-81.31	-62.51	7.30	13.10	V
	7520	-51.83	-13	-38.83	-80.37	-54.98	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) -Ant.0									
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	-66.03	-13	-53.03	-76.22	-69.28	4.00	9.40	H
	2509.2	-62.42	-13	-49.42	-77.53	-65.99	4.88	10.60	H
	3345.6	-61.76	-13	-48.76	-79.01	-66.69	5.52	12.60	H
	1672.8	-66.28	-13	-53.28	-75.92	-69.53	4.00	9.40	V
	2509.2	-62.93	-13	-49.93	-78.00	-66.50	4.88	10.60	V
	3345.6	-62.14	-13	-49.14	-79.12	-67.07	5.52	12.60	V

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

WCDMA Band V(RMC 12.2Kbps) -Ant.1									
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	-65.34	-13	-52.34	-75.53	-68.59	4.00	9.40	H
	2509.2	-58.32	-13	-45.32	-73.43	-61.89	4.88	10.60	H
	3345.6	-61.94	-13	-48.94	-79.19	-66.87	5.52	12.60	H
	1672.8	-59.10	-13	-46.10	-68.74	-62.35	4.00	9.40	V
	2509.2	-49.75	-13	-36.75	-64.82	-53.32	4.88	10.60	V
	3345.6	-62.36	-13	-49.36	-79.34	-67.29	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) -Ant.0									
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	-58.91	-13	-45.91	-79.47	-65.66	5.85	12.60	H
	5640	-56.20	-13	-43.20	-81.55	-62.00	7.30	13.10	H
	7520	-52.10	-13	-39.10	-80.66	-55.25	8.35	11.50	H
	3760	-58.74	-13	-45.74	-79.23	-65.49	5.85	12.60	V
	5640	-56.88	-13	-43.88	-81.48	-62.68	7.30	13.10	V
	7520	-51.76	-13	-38.76	-80.3	-54.91	8.35	11.50	V

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



WCDMA Band II(RMC 12.2Kbps) -Ant.1									
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	-58.91	-13	-45.91	-79.47	-65.66	5.85	12.60	H
	5640	-55.92	-13	-42.92	-81.27	-61.72	7.30	13.10	H
	7520	-51.83	-13	-38.83	-80.39	-54.98	8.35	11.50	H
	3760	-58.95	-13	-45.95	-79.44	-65.70	5.85	12.60	V
	5640	-56.78	-13	-43.78	-81.38	-62.58	7.30	13.10	V
	7520	-52.23	-13	-39.23	-80.77	-55.38	8.35	11.50	V

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

WCDMA Band IV(RMC 12.2Kbps) -Ant.0									
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	-61.17	-13	-48.17	-79.28	-68.02	5.65	12.50	H
	5197.8	-56.58	-13	-43.58	-81.14	-62.25	7.13	12.80	H
	6930.4	-52.56	-13	-39.56	-81.16	-55.96	8.40	11.80	H
	3465.2	-61.12	-13	-48.12	-79.25	-67.97	5.65	12.50	V
	5197.8	-56.08	-13	-43.08	-80.95	-61.75	7.13	12.80	V
	6930.4	-52.23	-13	-39.23	-81.3	-55.63	8.40	11.80	V

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

WCDMA Band IV(RMC 12.2Kbps) -Ant.1									
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	-61.23	-13	-48.23	-79.34	-68.08	5.65	12.50	H
	5197.8	-56.51	-13	-43.51	-81.07	-62.18	7.13	12.80	H
	6930.4	-52.42	-13	-39.42	-81.02	-55.82	8.40	11.80	H
	3465.2	-61.12	-13	-48.12	-79.25	-67.97	5.65	12.50	V
	5197.8	-55.52	-13	-42.52	-80.39	-61.19	7.13	12.80	V
	6930.4	-52.32	-13	-39.32	-81.39	-55.72	8.40	11.80	V

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