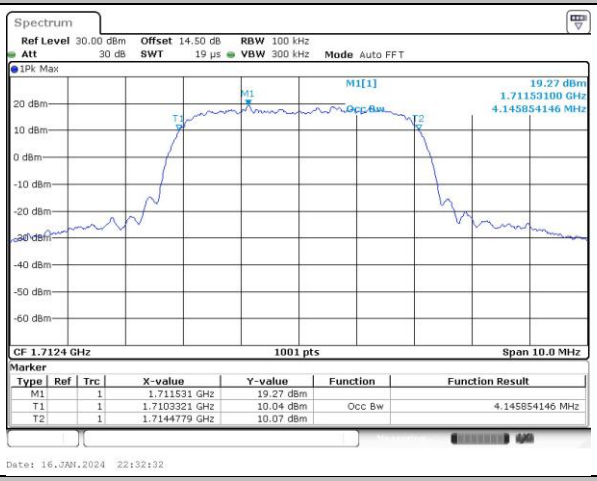
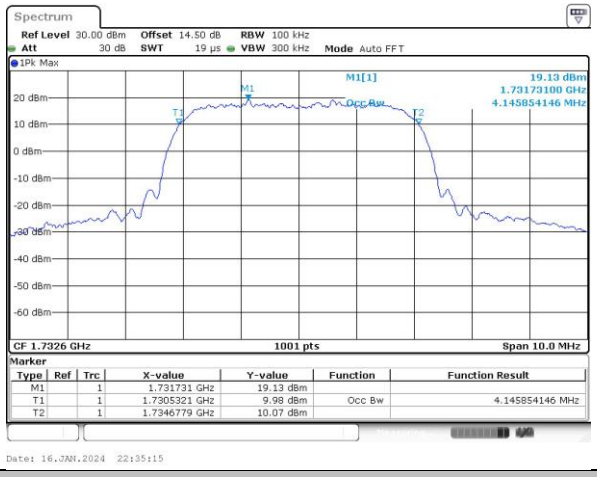
WCDMA Band IV (RMC 12.2Kbps)

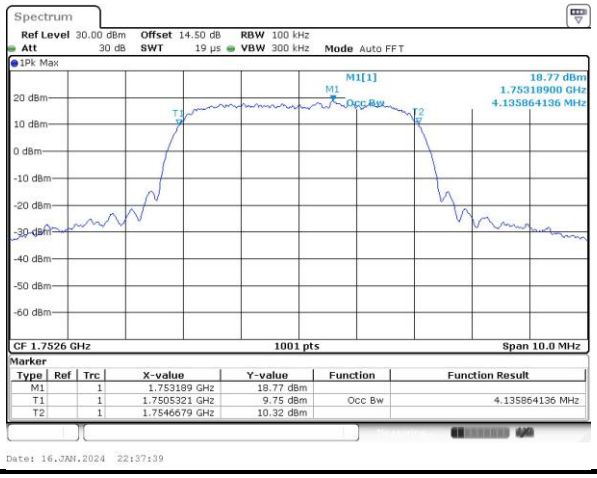
Lowest Channel



Middle Channel



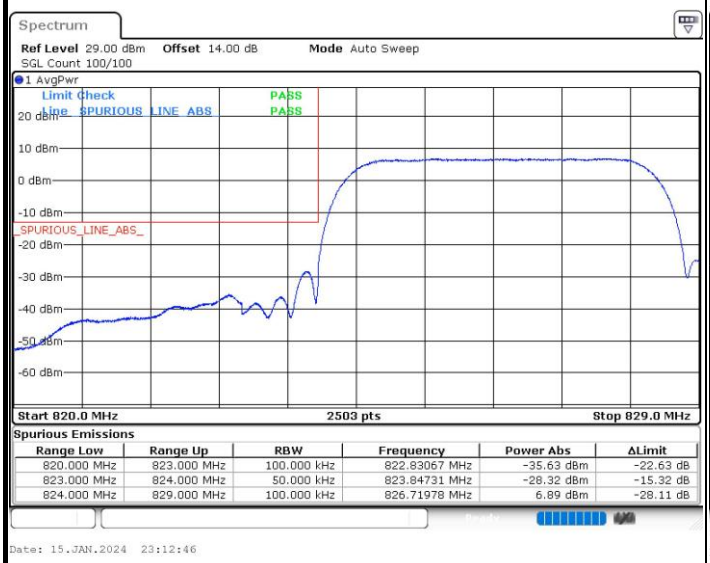
Highest Channel



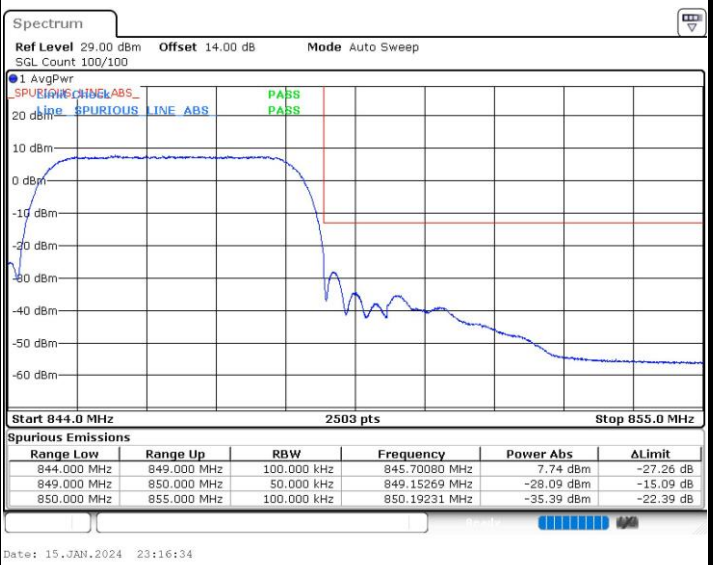
Conducted Band Edge

WCDMA Band V (RMC 12.2Kbps)

Lowest Band Edge

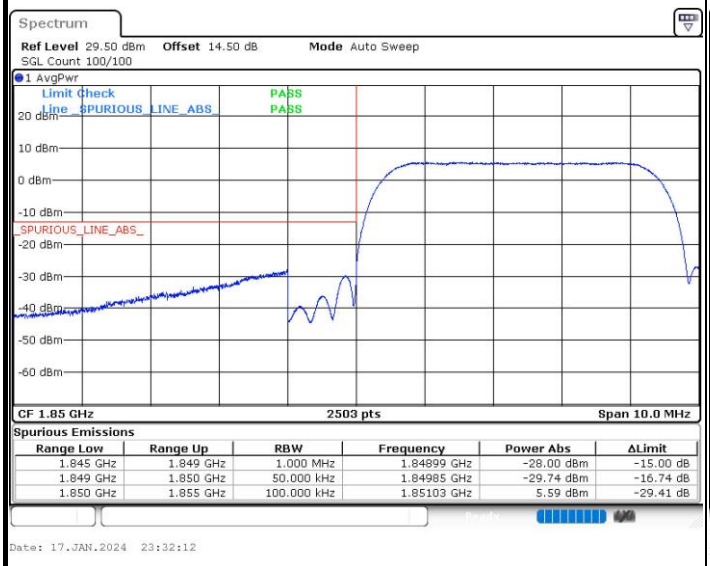


Highest Band Edge

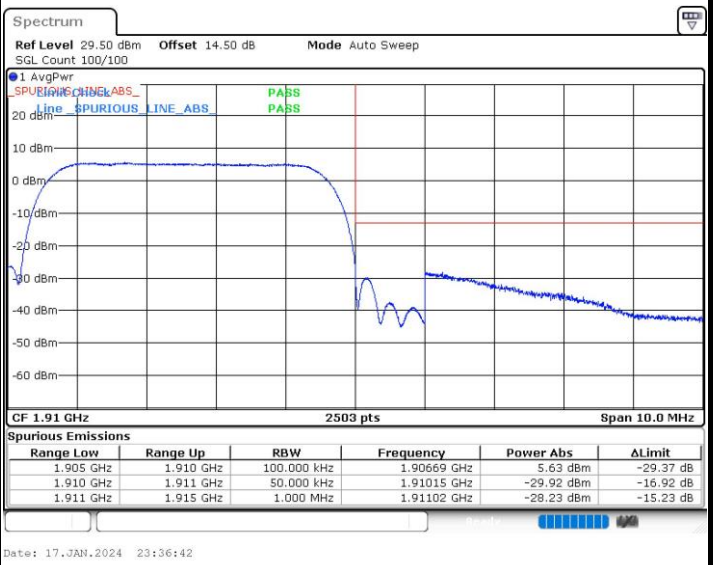


WCDMA Band II (RMC 12.2Kbps)

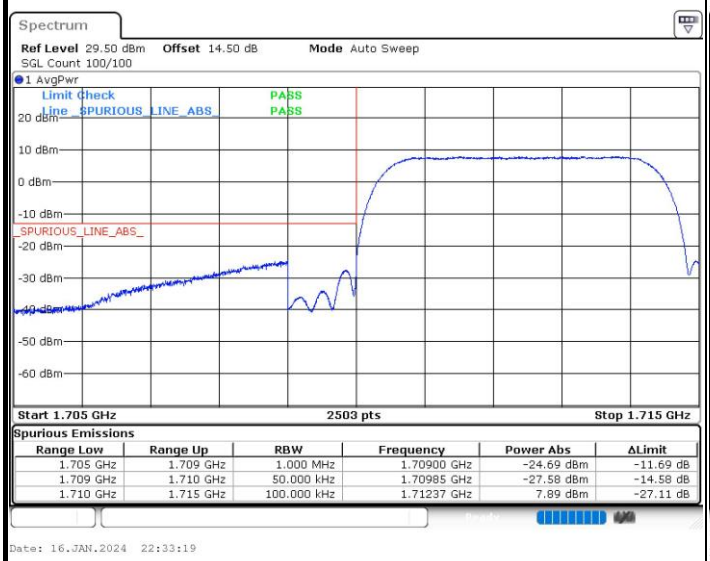
Lowest Band Edge



Highest Band Edge



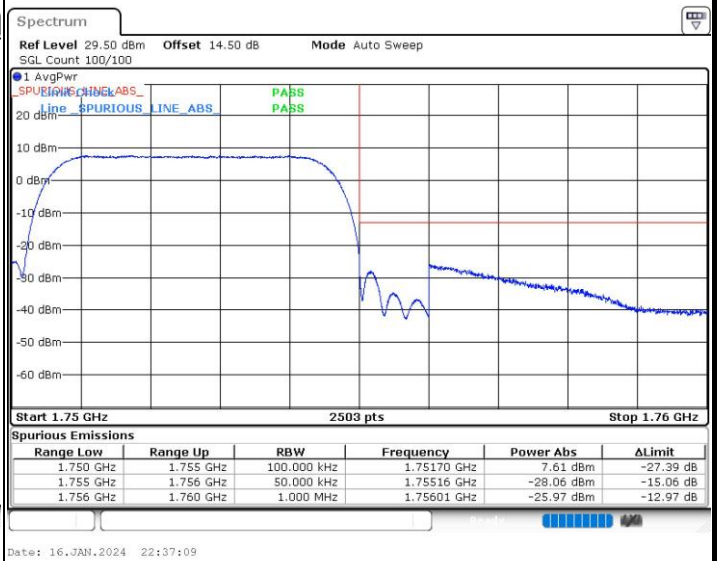
WCDMA Band IV (RMC 12.2Kbps)	
Lowest Band Edge	**Highest Band Edge**



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.705 GHz	1.709 GHz	1.000 MHz	1.70900 GHz	-24.69 dBm	-11.69 dB
1.709 GHz	1.710 GHz	50.000 kHz	1.70985 GHz	-27.58 dBm	-14.58 dB
1.710 GHz	1.715 GHz	100.000 kHz	1.71237 GHz	7.89 dBm	-27.11 dB

Date: 16.JAN.2024 22:33:19



Spurious Emissions

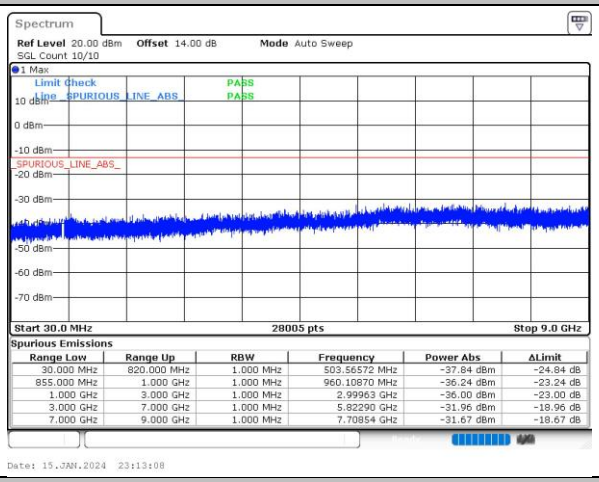
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.750 GHz	1.755 GHz	100.000 kHz	1.75170 GHz	7.61 dBm	-27.39 dB
1.755 GHz	1.756 GHz	50.000 kHz	1.75516 GHz	-28.06 dBm	-15.06 dB
1.756 GHz	1.760 GHz	1.000 MHz	1.75601 GHz	-25.97 dBm	-12.97 dB

Date: 16.JAN.2024 22:37:09

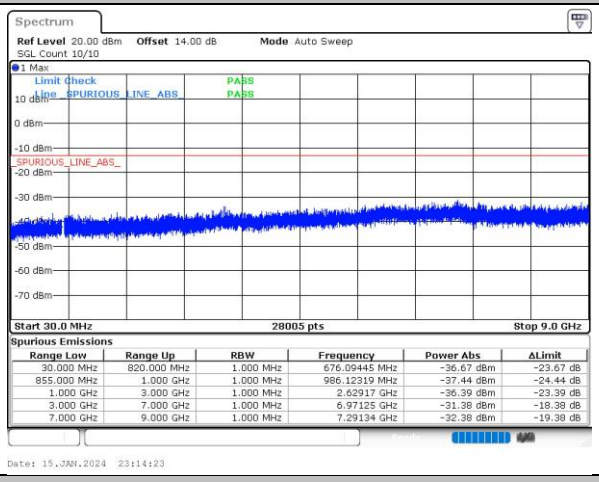
Conducted Spurious Emission

WCDMA Band V (RMC 12.2Kbps)

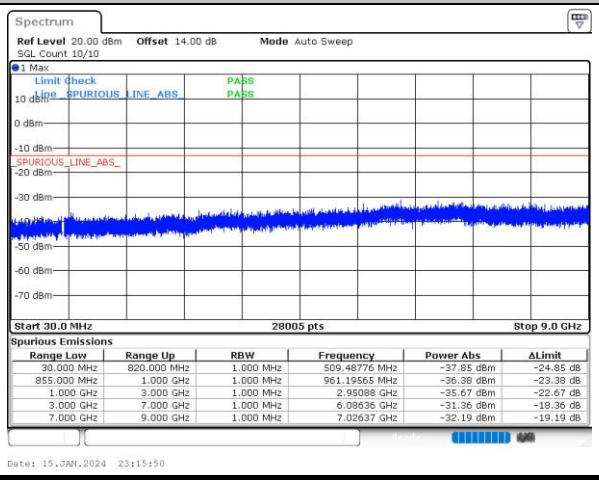
Lowest Channel



Middle Channel

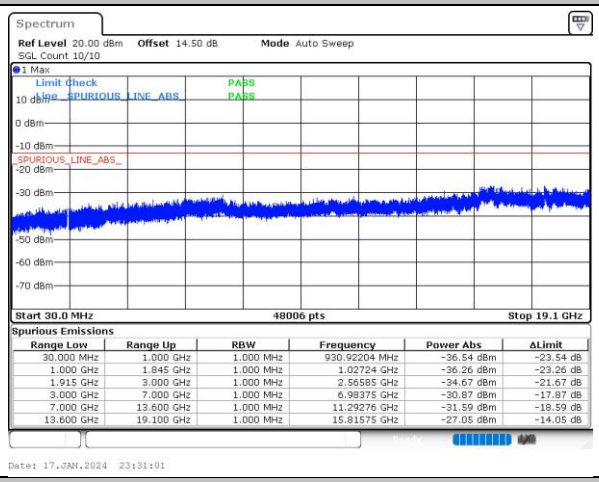


Highest Channel

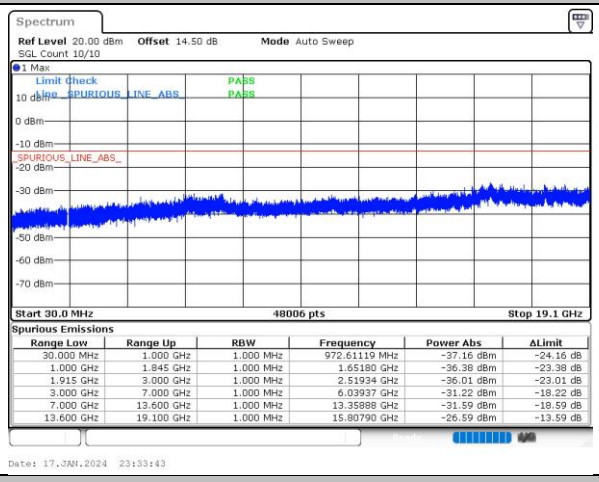


WCDMA Band II (RMC 12.2Kbps)

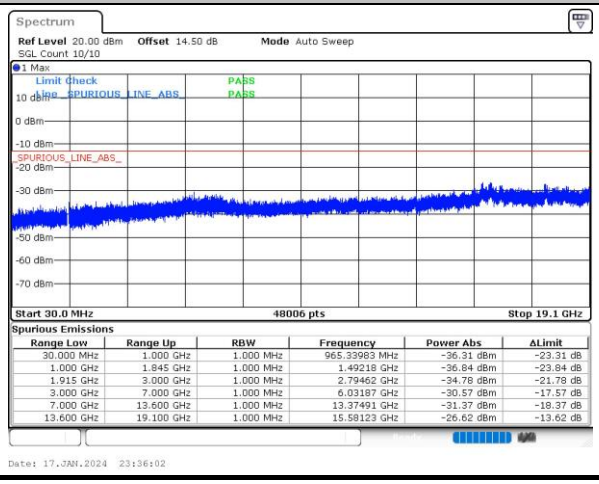
Lowest Channel



Middle Channel

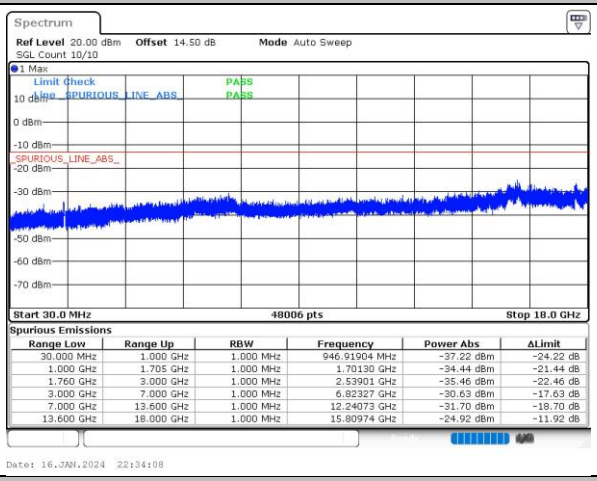


Highest Channel

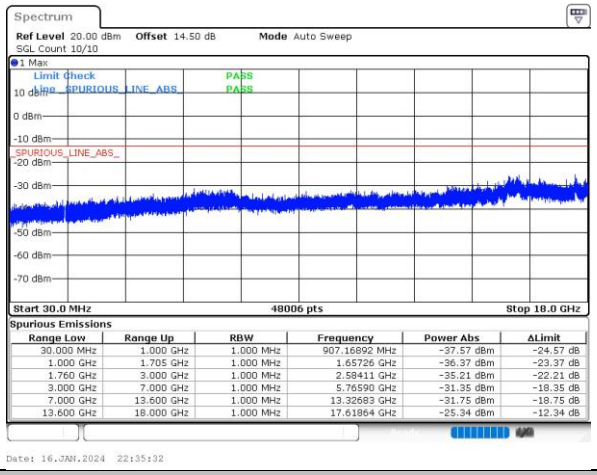


WCDMA Band IV (RMC 12.2Kbps)

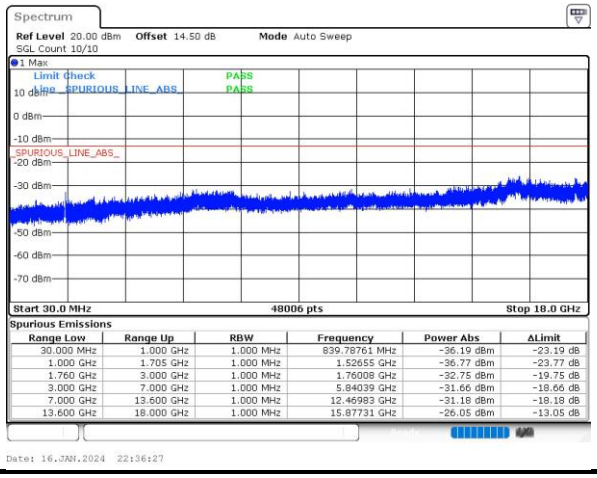
Lowest Channel



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	0.0012	PASS
40	Normal Voltage	0.0017	
30	Normal Voltage	0.0006	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0018	
0	Normal Voltage	0.0029	
-10	Normal Voltage	0.0030	
-20	Normal Voltage	0.0032	
-30	Normal Voltage	0.0039	
20	Maximum Voltage	0.0044	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0045	

Test Conditions	Middle Channel	WCDMA Band II (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0005	PASS
40	Normal Voltage	0.0004	
30	Normal Voltage	0.0002	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0023	
0	Normal Voltage	0.0025	
-10	Normal Voltage	0.0018	
-20	Normal Voltage	0.0008	
-30	Normal Voltage	0.0017	
20	Maximum Voltage	0.0006	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0002	

Note:

1. Normal Voltage = 3.89 V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage = 4.48 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	0.0040	PASS
40	Normal Voltage	0.0042	
30	Normal Voltage	0.0044	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0001	
0	Normal Voltage	0.0008	
-10	Normal Voltage	0.0043	
-20	Normal Voltage	0.0046	
-30	Normal Voltage	0.0007	
20	Maximum Voltage	0.0009	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0011	

Note:

1. Normal Voltage = 3.89 V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage = 4.48 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 :	Carry Xu	Temperature :	23~25℃
		Relative Humidity :	41~42%

RSE pretest all the support antennas, only the worst results are shown in the report.

GSM850 (GSM) / ANT0								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1672	-46.96	-13	-33.96	-53.93	1.58	10.70	H
	2512	-42.47	-13	-29.47	-50.72	2.102	12.50	H
	3344	-60.64	-13	-47.64	-69.53	2.856	13.90	H
	4184	-59.97	-13	-46.97	-68.43	2.689	13.30	H
	1672	-44.81	-13	-31.81	-51.78	1.58	10.70	V
	2512	-45.28	-13	-32.28	-53.53	2.10	12.50	V
	3344	-61.04	-13	-48.04	-69.93	2.86	13.90	V
	4184	-62.52	-13	-49.52	-70.98	2.69	13.30	V

GSM850 (EDGE 1 Tx slots) /ANT 0								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1672	-41.03	-13	-28.03	-48.00	1.58	10.70	H
	2512	-42.23	-13	-29.23	-50.48	2.102	12.50	H
	3344	-61.06	-13	-48.06	-69.95	2.856	13.90	H
	1672	-39.83	-13	-26.83	-46.80	1.58	10.70	V
	2512	-45.75	-13	-32.75	-54.00	2.10	12.50	V
	3344	-60.74	-13	-47.74	-69.63	2.86	13.90	V

WCDMA Band V(RMC 12.2Kbps) / ANT 0								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1672	-64.84	-13	-51.84	-71.81	1.58	10.70	H
	2512	-60.21	-13	-47.21	-68.46	2.102	12.50	H
	3344	-59.70	-13	-46.70	-68.59	2.856	13.90	H
	1672	-63.52	-13	-50.52	-70.49	1.58	10.70	V
	2512	-59.33	-13	-46.33	-67.58	2.10	12.50	V
	3344	-60.42	-13	-47.42	-69.31	2.86	13.90	V

GSM1900 (GSM) / ANT2								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3765	-58.06	-13	-45.06	-70.32	2.641	14.90	H
	5640	-48.71	-13	-35.71	-60.57	2.94	14.80	H
	7515	-53.61	-13	-40.61	-63.38	3.39	13.16	H
	3765	-58.26	-13	-45.26	-70.52	2.64	14.90	V
	5640	-52.84	-13	-39.84	-64.70	2.94	14.80	V
	7515	-53.54	-13	-40.54	-63.31	3.39	13.16	V

GSM1900 (EDGE 1 Tx slots) /ANT 2								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3765	-58.09	-13	-45.09	-70.35	2.641	14.90	H
	5640	-50.42	-13	-37.42	-62.28	2.94	14.80	H
	7515	-53.60	-13	-40.60	-63.37	3.39	13.16	H
	3765	-58.04	-13	-45.04	-70.30	2.64	14.90	V
	5640	-56.61	-13	-43.61	-68.47	2.94	14.80	V
	7515	-53.84	-13	-40.84	-63.61	3.39	13.16	V

WCDMA Band II(RMC 12.2Kbps) / ANT 2								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3765	-58.17	-13	-45.17	-70.43	2.641	14.90	H
	5640	-56.26	-13	-43.26	-68.12	2.94	14.80	H
	7515	-54.02	-13	-41.02	-63.79	3.39	13.16	H
	3765	-58.23	-13	-45.23	-70.49	2.64	14.90	V
	5640	-57.07	-13	-44.07	-68.93	2.94	14.80	V
	7515	-53.58	-13	-40.58	-63.35	3.39	13.16	V

WCDMA Band IV(RMC 12.2Kbps) / ANT 2								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3465	-58.09	-13	-45.09	-68.83	2.604	13.34	H
	5205	-56.44	-13	-43.44	-66.95	3.011	13.52	H
	6930	-55.72	-13	-42.72	-65.92	3.271	13.47	H
	3465	-58.71	-13	-45.71	-69.45	2.604	13.34	V
	5205	-56.28	-13	-43.28	-66.79	3.011	13.52	V
	6930	-55.54	-13	-42.54	-65.74	3.271	13.47	V

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