

FCC Part 22H & 24E Measurement and Test Report

For

Worldwide telecom limited

2F Block C; Shenfang Building, Zhen Hualu, Futian, Shenzhen.

FCC ID: 2AR03-WS055

FCC Rules: FCC Part 22H, FCC Part 24E

Product Description: Smart phone

Tested Model: WS50

Report No.: WTX19X08059759W-1

Sample Receipt Date: 2019-08-27

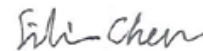
Tested Date: 2019-08-27 to 2019-09-20

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Tested By: Jason Su / Engineer



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Note: This test report is limited to the above client company and the product model only. It may not be duplicated without prior permitted by Shenzhen SEM Test Technology Co., Ltd.

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Report version

Version No.	Date of issue	Description
Rev.00	2019-09-20	Original
/	/	/

1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

Client Information

Applicant: Worldwide telecom limited
Address of applicant: 2F Block C; Shengfang Building, Zhen Hualu, Futian, Shenzhen.

Manufacturer: Worldwide telecom limited
Address of manufacturer: 2F Block C; Shengfang Building, Zhen Hualu, Futian, Shenzhen.

General Description of EUT:	
Product Name:	Smart phone
Brand Name:	WOLKI
Model No.:	WS50
Adding Model(s):	/
Rated Voltage:	DC3.8V
Battery:	/
Adapter Model:	Model: WCH05 Input: AC100-240V, 50/60Hz, 0.15A; Output: DC5V, 1000mA
Software Version:	/
Hardware Version:	/
<i>Note: The test data is gathered from a production sample provided by the manufacturer.</i>	

Technical Characteristics of EUT:	
2G	
Support Networks:	GSM, GPRS
Support Band:	GSM850/PCS1900
Uplink Frequency:	GSM/GPRS 850: 824~849MHz GSM/GPRS 1900: 1850~1910MHz
Downlink Frequency:	GSM/GPRS 850: 869~894MHz GSM/GPRS 1900: 1930~1990MHz
Max RF Output Power:	GSM850: 34.09dBm, GSM1900: 31.20dBm
Type of Emission:	GSM850: 249KGXW, GSM1900: 253KGXW
Type of Modulation:	GMSK, 8PSK
Type of Antenna:	Integral Antenna
Antenna Gain:	GSM850: -0.5dBi; GSM1900: 05dBi
GPRS Class:	Class 12
3G	
Support Networks:	WCDMA, HSDPA, HSUPA
Support Band:	WCDMA Band 2, WCDMA Band 5
Uplink Frequency:	WCDMA Band 2: 1850~1910MHz WCDMA Band 5: 824~849MHz
Downlink Frequency:	WCDMA Band 2: 1930~1990MHz WCDMA Band 5: 869~894MHz
RF Output Power:	WCDMA Band 2: 24.05dBm, WCDMA Band 5: 23.58dBm
Type of Emission:	WCDMA Band 2: 4M18F9W WCDMA Band 5: 4M17F9W
Type of Modulation:	BPSK, QPSK
Antenna Type:	Integral Antenna
Antenna Gain:	WCDMA Band 2: 0.5dBi, WCDMA Band 5: -0.5dBi

1.2 Test Standards

The tests were performed according to following standards:

FCC Rules Part 2: FREQUENCY ALLOCATIONS AND RADIO TREATY MATTERS; GENERAL RULES AND REGULATIONS

FCC Rules Part 22: PRIVATE LAND MOBILE RADIO SERVICES.

FCC Rules Part 24: PUBLIC MOBILE SERVICES

TIA/EIA 603 E March 2016: Land Mobile FM or PM Communications Equipment Measurement and Performance Standards.

ANSI C63.26-2015: American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services

KDB 971168 D01 Power Meas License Digital Systems v03r01: MEASUREMENT GUIDANCE FOR CERTIFICATION OF LICENSED DIGITAL TRANSMITTERS

Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product, which result in lowering the emission, should be checked to ensure compliance has been maintained.

1.3 Test Methodology

All measurements contained in this report were conducted with TIA/EIA 603 E/ KDB 971168/ ANSI C63.26

The equipment under test (EUT) was configured to measure its highest possible emission level. The test modes were adapted accordingly in reference to the Operating Instructions.

1.4 Test Facility

FCC – Registration No.: 125990

Shenzhen SEM Test Technology Co., Ltd. Laboratory has been recognized to perform compliance testing on equipment subject to the Commissions Declaration Of Conformity (DOC). The Designation Number is CN5010, and Test Firm Registration Number is 125990.

Industry Canada (IC) Registration No.: 11464A

The 3m Semi-anechoic chamber of Shenzhen SEM Test Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 11464A.

1.5 EUT Setup and Test Mode

The EUT was operated in the engineering mode to fix the Tx frequency that was for the purpose of the measurements. All testing shall be performed under maximum output power condition, and to measure its highest possible emissions level, more detailed description as follows:

Test Mode List		
Test Mode	Description	Remark
TM1	GSM 850	Low, Middle, High Channels
TM2	GPRS 850	Low, Middle, High Channels
TM3	GSM 1900	Low, Middle, High Channels
TM4	GPRS 1900	Low, Middle, High Channels
TM5	WCDMA Band 5	Low, Middle, High Channels
TM6	HSDPA Band 5	Low, Middle, High Channels
TM7	HSUPA Band 5	Low, Middle, High Channels
TM8	WCDMA Band 2	Low, Middle, High Channels
TM9	HSDPA Band 2	Low, Middle, High Channels
TM10	HSUPA Band 2	Low, Middle, High Channels

Testing Configure			
Support Band	Support Standard	Channel Frequency(MHz)	Channel Number
GSM 850	GSM/GPRS	824.2	128
		836.6	190
		848.8	251
PCS 1900	GSM/GPRS	1850.2	512
		1880.0	661
		1909.8	810
WCDMA Band 5	WCDMA/HSDPA/HSUPA	826.4	4132
		836.6	4183
		846.6	4233
WCDMA Band 2	WCDMA/HSDPA/HSUPA	1852.4	9262
		1880.0	9400
		1907.6	9538

Note: the transmitter has been tested on the communications mode of GSM, GPRS, EDGE, WCDMA, HSDPA, HSUPA compliance test and record the worst case.

Test Conditions	
Temperature:	22~25 °C
Relative Humidity:	50~55 %.
ATM Pressure:	1019 mbar

EUT Cable List and Details			
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
USB Cable	0.98	Unshielded	Without Ferrite
Earphone Cable	0.7	Unshielded	Without Ferrite

Special Cable List and Details			
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
/	/	/	/

Auxiliary Equipment List and Details			
Description	Manufacturer	Model	Serial Number
/	/	/	/

1.6 Measurement Uncertainty

Measurement uncertainty		
Parameter	Conditions	Uncertainty
RF Output Power	Conducted	$\pm 0.42\text{dB}$
Occupied Bandwidth	Conducted	$\pm 1.5\%$
Frequency Stability	Conducted	2.3%
Transmitter Spurious Emissions	Conducted	$\pm 0.42\text{dB}$
Transmitter Spurious Emissions	Radiated	30-200MHz $\pm 4.52\text{dB}$
		0.2-1GHz $\pm 5.56\text{dB}$
		1-6GHz $\pm 3.84\text{dB}$
		6-18GHz $\pm 3.92\text{dB}$

1.7 Test Equipment List and Details

No.	Description	Manufacturer	Model	Serial No.	Cal Date	Due. Date
SEMT-1075	Communication Tester	Rohde & Schwarz	CMW500	148650	2019-04-30	2020-04-29
SEMT-1063	GSM Tester	Rohde & Schwarz	CMU200	114403	2019-04-30	2020-04-29
SEMT-1072	Spectrum Analyzer	Agilent	E4407B	MY41440400	2019-04-30	2020-04-29
SEMT-1079	Spectrum Analyzer	Agilent	N9020A	US47140102	2019-04-30	2020-04-29
SEMT-1080	Signal Generator	Agilent	83752A	3610A01453	2019-04-30	2020-04-29
SEMT-1081	Vector Signal Generator	Agilent	N5182A	MY47070202	2019-04-30	2020-04-29
SEMT-1028	Power Divider	Weinschel	1506A	PM204	2019-04-30	2020-04-29
SEMT-1082	Power Divider	RF-Lambda	RFLT4W5M18G	14110400027	2019-04-30	2020-04-29
SEMT-1031	Spectrum Analyzer	Rohde & Schwarz	FSP30	836079/035	2019-04-30	2020-04-29
SEMT-1007	EMI Test Receiver	Rohde & Schwarz	ESVB	825471/005	2019-04-30	2020-04-29
SEMT-1008	Amplifier	Agilent	8447F	3113A06717	2019-04-30	2020-04-29
SEMT-1043	Amplifier	C&D	PAP-1G18	2002	2019-04-30	2020-04-29
SEMT-1069	Loop Antenna	Schwarz beck	FMZB 1516	9773	2019-05-05	2021-05-04
SEMT-1068	Broadband Antenna	Schwarz beck	VULB9163	9163-333	2019-05-05	2021-05-04
SEMT-1042	Horn Antenna	ETS	3117	00086197	2019-05-05	2021-05-04
SEMT-1121	Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170582	2019-05-05	2021-05-04
SEMT-1168	Pre-amplifier	Direction Systems Inc.	PAP-0126	14141-12838	2019-04-30	2020-04-29
SEMT-1169	Pre-amplifier	Direction Systems Inc.	PAP-2640	14145-14153	2019-04-30	2020-04-29
SEMT-1163	Spectrum Analyzer	Rohde & Schwarz	FSP40	100612	2019-04-30	2020-04-29
SEMT-1170	DRG Horn Antenna	A.H. SYSTEMS	SAS-574	571	2019-05-05	2021-05-04
SEMT-1166	Power Limiter	Agilent	N9356B	MY45450376	2019-04-30	2020-04-29
SEMT-1055	RF Limiter	ATTEN	AT-BSF-0820~0920	/	2019-04-30	2020-04-29
SEMT-1056	RF Limiter	ATTEN	AT-BSF-1710~1910	/	2019-04-30	2020-04-29
SEMT-1076	RF Switcher	Top Precision	RCS03-A2	/	2019-04-30	2020-04-29
SEMT-C001	Cable	Zheng DI	LL142-07-07-10M(A)	/	2019-03-18	2020-03-17
SEMT-C002	Cable	Zheng DI	ZT40-2.92J-2.92J-6M	/	2019-03-18	2020-03-17
SEMT-C003	Cable	Zheng DI	ZT40-2.92J-2.92J-2.5M	/	2019-03-18	2020-03-17

SEMT-C004	Cable	Zheng DI	2M0RFC	/	2019-03-18	2020-03-17
SEMT-C005	Cable	Zheng DI	1M0RFC	/	2019-03-18	2020-03-17
SEMT-C006	Cable	Zheng DI	1M0RFC	/	2019-03-18	2020-03-17

Software List			
Description	Manufacturer	Model	Version
EMI Test Software (Radiated Emission)*	Farad	EZ-EMC	RA-03A1
EMI Test Software (Conducted Emission)*	Farad	EZ-EMC	RA-03A1

*Remark: indicates software version used in the compliance certification testing

2. SUMMARY OF TEST RESULTS

FCC Rules	Description of Test Item	Result
§1.1307, §2.1093	RF Exposure	Compliant
§22.913(a), §24.232(c)	RF Output Power	Compliant
§24.51	Peak-to-average Ratio (PAR) of Transmitter	N/A
§22.917(b), §24.238(b)	Emission Bandwidth	N/A
§22.917(a), §24.238(a)	Spurious Emissions at Antenna Terminal	N/A
§22.917(a), §24.238(a)	Spurious Radiation Emissions	Compliant
§22.917(a), §24.238(a)	Out of Band Emissions	N/A
§22.355, §24.235	Frequency Stability	N/A

N/A: not applicable

Note: Report is for C2PC only. The test data includes RF Exposure, RF Output Power, Spurious Radiation Emissions. Those not tested mark with N/A (not effected by the C2PC).

3. RF Exposure

3.1 Standard Applicable

According to §1.1307 and §2.1093, the portable transmitter must comply the RF exposure requirements.

3.2 Test Result

This product complied with the requirement of the RF exposure, please see the SAR report.

4. RF Output Power

4.1 Standard Applicable

According to §22.913(a)(2), The ERP of mobile and portable stations transmitters and auxiliary test transmitters must not exceed 7 Watts.

According to §24.232 (c), Mobile and portable stations are limited to 2 watts EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications.

4.2 Test Procedure

➤ Radiated power test method:

1. The setup of EUT is according with per ANSI/TIA Standard 603E and ANSI C63.26 measurement procedure.
2. The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis.
3. The frequency range up to tenth harmonic of the fundamental frequency was investigated.
4. Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the spurious emissions were measured by the substitution.

4.3 Summary of Test Results/Plots

➤ Max. Radiated Power

Mode	Channel	Antenna Polar	ERP (dBm)	Limit (dBm)	Result
GSM850	128	V	31.05	<38.45	Pass
		H	23.52		
	190	V	30.45		
		H	24.51		
	251	V	30.91		
		H	22.78		
GPRS850	128	V	30.65	<38.45	Pass
		H	23.17		
	190	V	30.94		
		H	24.36		
	251	V	30.64		
		H	23.52		

Mode	Channel	Antenna Polar	EIRP (dBm)	Limit (dBm)	Result
PCS1900	512	V	28.34	<33.00	Pass
		H	24.04		
	661	V	27.94		
		H	23.69		
	810	V	28.36		
		H	24.64		
GPRS1900	512	V	28.38	<33.00	Pass
		H	23.28		
	661	V	28.41		
		H	23.13		
	810	V	28.51		
		H	23.51		

Mode	Channel	Antenna Polar	ERP	Limit (dBm)	Result
WCDMA Band V	4132	V	20.7	<38.45	Pass
		H	17.31		
	4183	V	21.17		
		H	15.24		
	4233	V	20.6		
		H	15.71		

Mode	Channel	Antenna Polar	EIRP	Limit (dBm)	Result
WCDMA Band II	9262	V	21.86	<33.00	Pass
		H	17.23		
	9400	V	21.27		
		H	16.2		
	9538	V	21.79		
		H	16.59		

Note: Pre-scan mode WCDMA/HSDPA/HSUPA find the worst case at WCDMA mode and recorded in the test report.

5. Spurious Radiated Emissions

5.1 Standard Applicable

According to §22.917(a), the power of any emissions outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

According to §24.238(a), the power of any emissions outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

5.2 Test Procedure

1. The setup of EUT is according with per ANSI/TIA Standard 603E and ANSI C63.26 measurement procedure.
2. The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis.
3. The frequency range up to tenth harmonic of the fundamental frequency was investigated.
4. Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the spurious emissions were measured by the substitution.

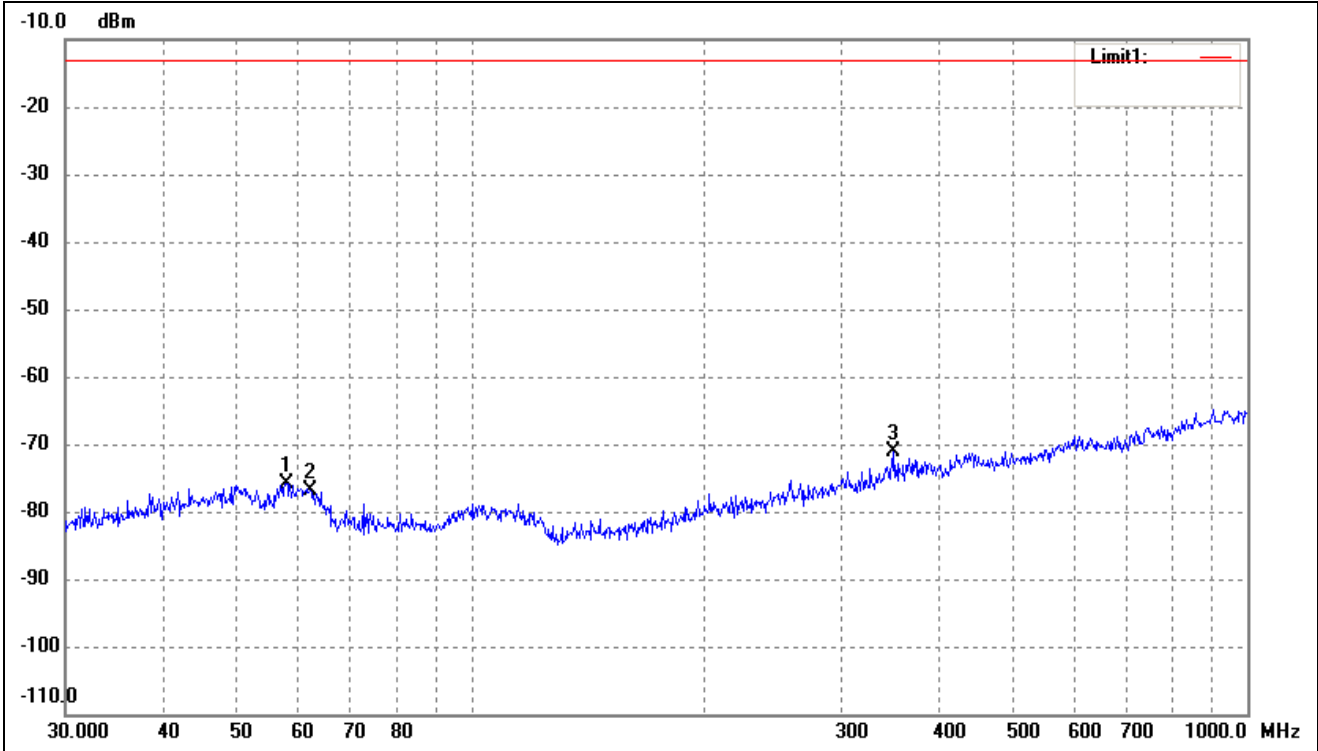
Spurious attenuation limit in dB = $43 + 10 \log_{10}(\text{power out in Watts})$

5.3 Summary of Test Results/Plots

Note: this EUT was tested in 3 orthogonal positions and the worst case position data was reported.

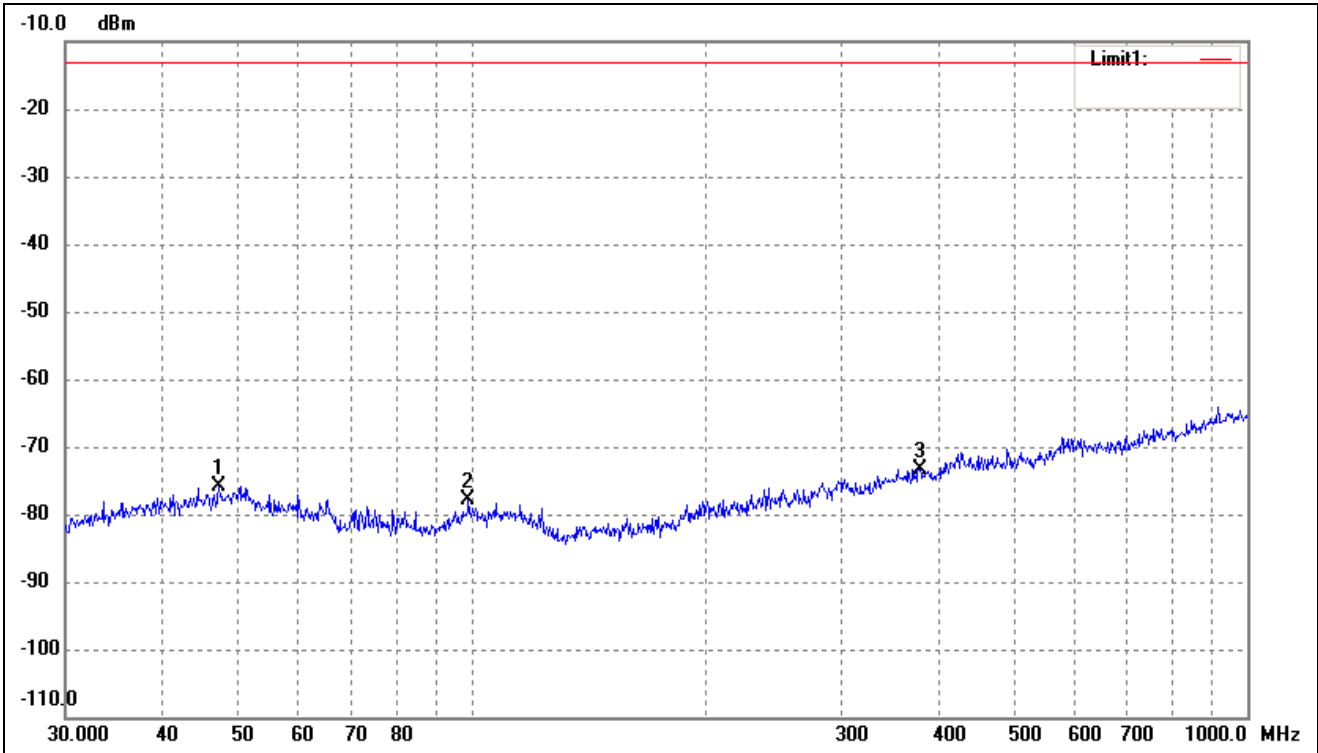
➤ Spurious Emissions Below 1GHz

For Cellular Band			
Test Channel	GSM850	Polarity:	Horizontal



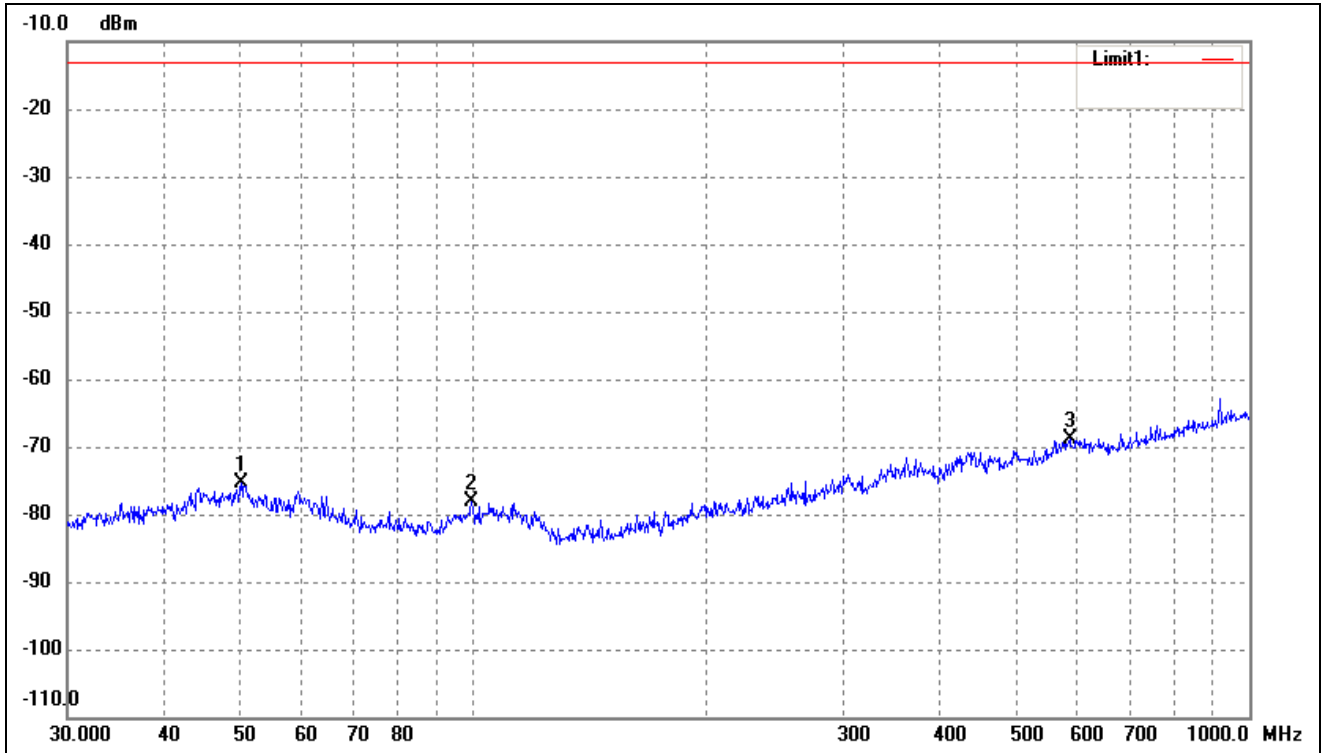
No.	Frequency (MHz)	Reading (dBm)	Correct (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Degree ()	Height (cm)	Remark
1	57.7962	-74.77	-1.02	-75.79	-13.00	-62.79	270	100	peak
2	61.9951	-75.11	-1.83	-76.94	-13.00	-63.94	91	100	peak
3	350.4768	-74.98	3.75	-71.23	-13.00	-58.23	146	100	peak

For Cellular Band			
Test Channel	GSM850	Polarity:	Vertical



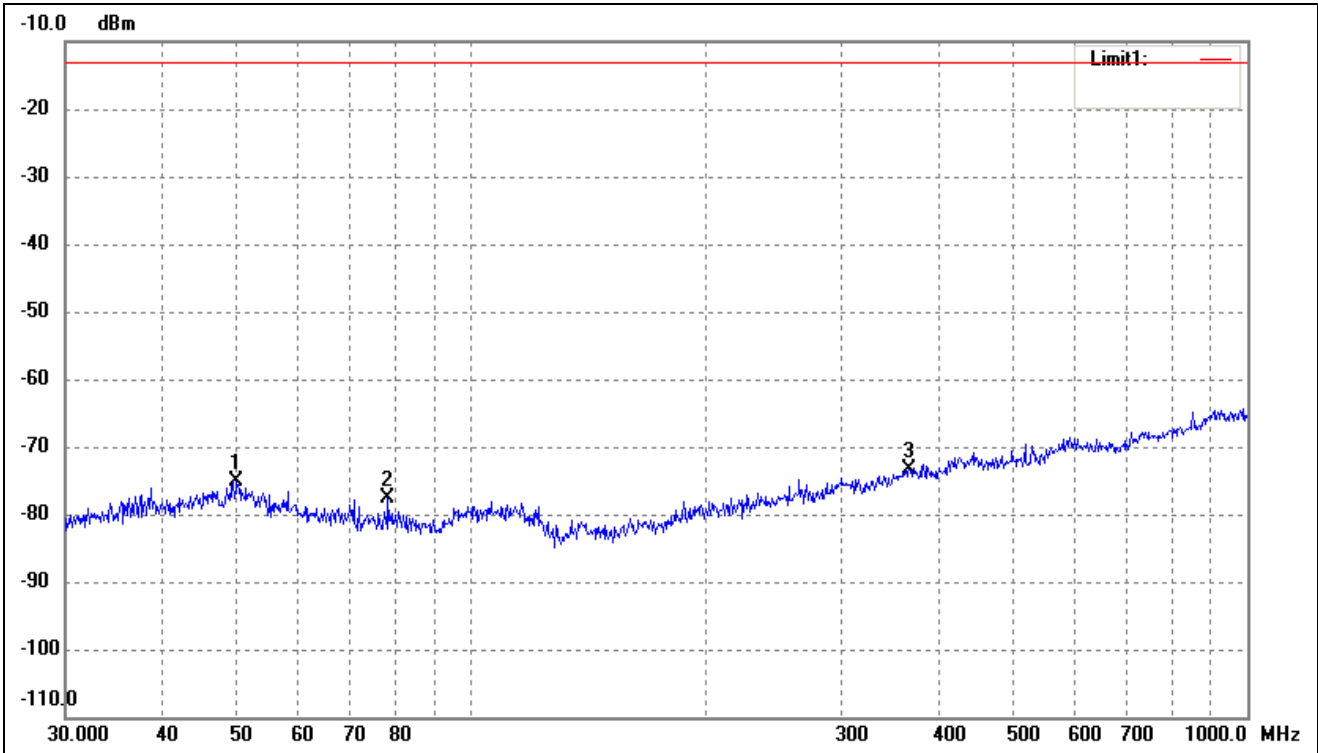
No.	Frequency (MHz)	Reading (dBm)	Correct (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Degree ()	Height (cm)	Remark
1	47.3255	-76.52	0.62	-75.90	-13.00	-62.90	172	100	peak
2	99.1797	-76.30	-1.56	-77.86	-13.00	-64.86	316	100	peak
3	378.5843	-77.61	4.24	-73.37	-13.00	-60.37	53	100	peak

For Cellular Band			
Test Channel	GSM1900	Polarity:	Horizontal



No.	Frequency (MHz)	Reading (dBm)	Correct (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Degree ()	Height (cm)	Remark
1	50.2325	-76.06	0.76	-75.30	-13.00	-62.30	236	100	peak
2	99.5281	-76.71	-1.49	-78.20	-13.00	-65.20	186	100	peak
3	586.8437	-76.53	7.65	-68.88	-13.00	-55.88	94	100	peak

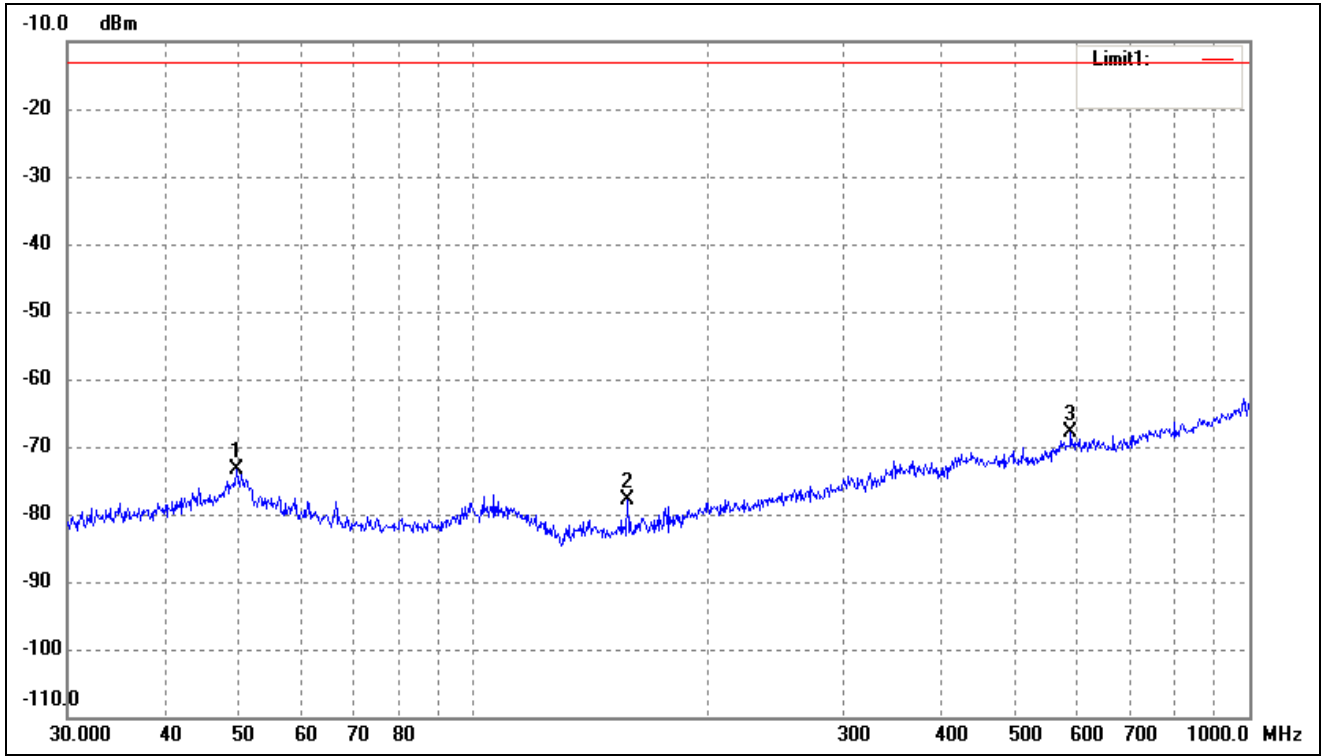
For Cellular Band			
Test Channel	GSM1900	Polarity:	Vertical



No.	Frequency (MHz)	Reading (dBm)	Correct (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Degree ()	Height (cm)	Remark
1	49.8814	-75.90	0.80	-75.10	-13.00	-62.10	210	100	peak
2	78.1389	-73.98	-3.54	-77.52	-13.00	-64.52	96	100	peak
3	366.8231	-77.47	4.06	-73.41	-13.00	-60.41	145	100	peak

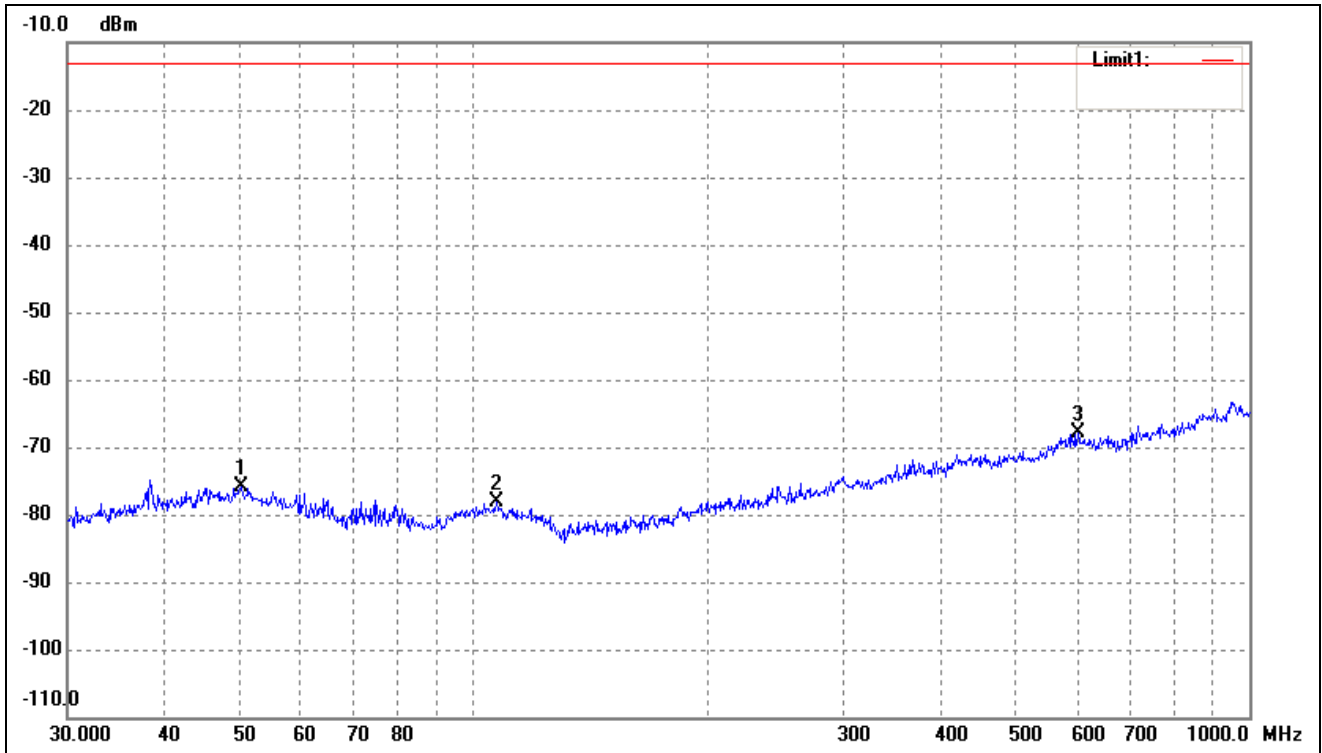
Note: Margin= (Reading+ Correct)- Limit

Test Channel	band 5	Polarity:	Horizontal
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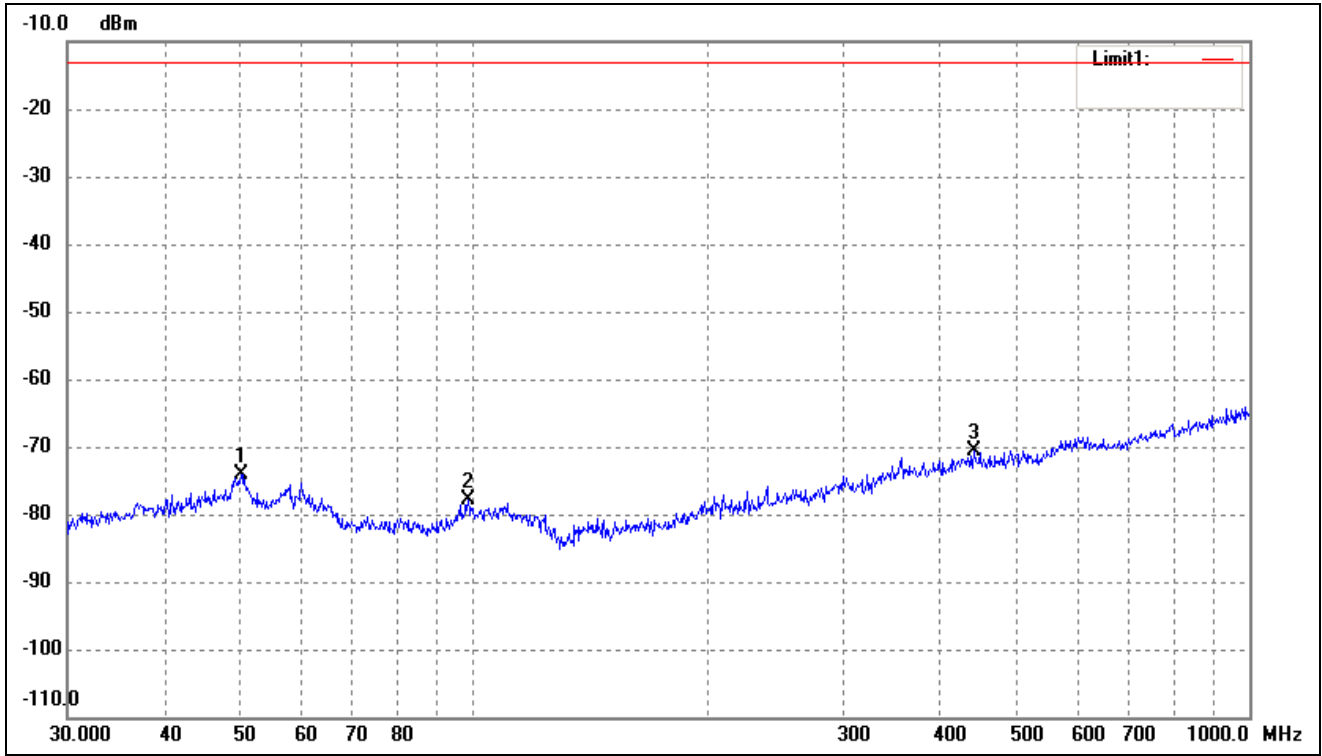
No.	Frequency (MHz)	Reading (dBm)	Correct (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Degree ()	Height (cm)	Remark
1	49.5328	-74.15	0.78	-73.37	-13.00	-60.37	229	100	peak
2	158.1123	-74.06	-3.77	-77.83	-13.00	-64.83	176	100	peak
3	588.9051	-75.53	7.67	-67.86	-13.00	-54.86	98	100	peak

Test Channel	band 5	Polarity:	Vertical
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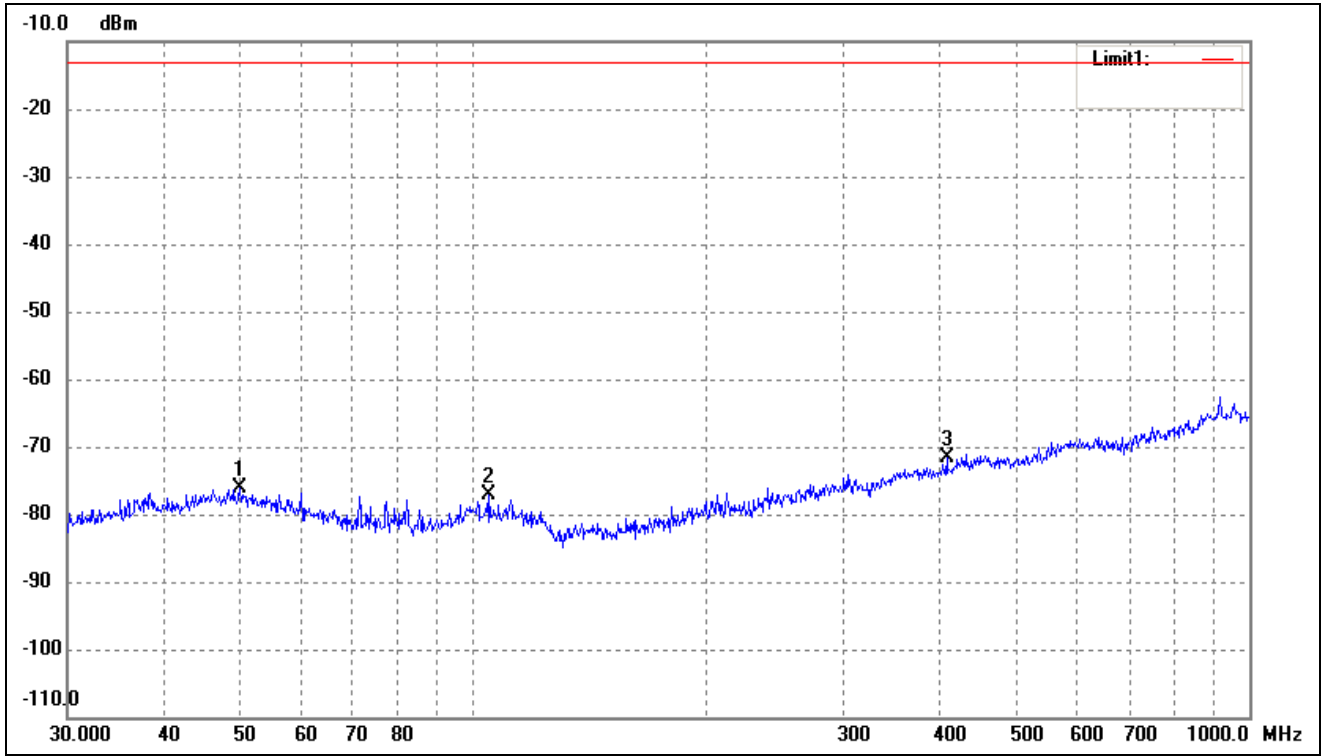
No.	Frequency (MHz)	Reading (dBm)	Correct (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Degree ()	Height (cm)	Remark
1	50.2325	-76.71	0.76	-75.95	-13.00	-62.95	57	100	peak
2	107.1337	-76.85	-1.27	-78.12	-13.00	-65.12	130	100	peak
3	601.4265	-75.62	7.78	-67.84	-13.00	-54.84	70	100	peak

Test Channel	band 2	Polarity:	Horizontal
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No.	Frequency (MHz)	Reading (dBm)	Correct (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Degree ()	Height (cm)	Remark
1	50.2325	-74.87	0.76	-74.11	-13.00	-61.11	339	100	peak
2	98.4866	-76.13	-1.73	-77.86	-13.00	-64.86	155	100	peak
3	441.7426	-76.10	5.57	-70.53	-13.00	-57.53	83	100	peak

Test Channel	band 2	Polarity:	Vertical
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No.	Frequency (MHz)	Reading (dBm)	Correct (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Degree ()	Height (cm)	Remark
1	50.0566	-76.87	0.80	-76.07	-13.00	-63.07	359	100	peak
2	104.9033	-75.74	-1.30	-77.04	-13.00	-64.04	137	100	peak
3	407.5145	-76.21	4.60	-71.61	-13.00	-58.61	58	100	peak

Note: Margin= (Reading+ Correct)- Limit

- Spurious Emissions Above 1GHz
- For Cellular Band_GSM850 Mode

Frequency	Reading	Correct	Result	Limit	Margin	Polar
(MHz)	(dBm)	dB	(dBm)	(dBm)	(dB)	H/V
Low Channel (824.2MHz)						
1648.4	-35.01	4.94	-30.07	-13	-17.07	H
2472.6	-43.97	8.46	-35.51	-13	-22.51	H
1648.4	-34.93	4.94	-29.99	-13	-16.99	V
2472.6	-44.24	8.46	-35.78	-13	-22.78	V
Middle Channel (836.6MHz)						
1673.2	-37.37	5.11	-32.26	-13	-19.26	H
2509.8	-41.1	8.54	-32.56	-13	-19.56	H
1673.2	-35.75	5.11	-30.64	-13	-17.64	V
2509.8	-43.22	8.54	-34.68	-13	-21.68	V
High Channel (848.8MHz)						
1697.6	-36.04	5.25	-30.79	-13	-17.79	H
2546.4	-42.56	8.57	-33.99	-13	-20.99	H
1697.6	-34	5.25	-28.75	-13	-15.75	V
2546.4	-44.19	8.57	-35.62	-13	-22.62	V

- For PCS Band_GSM1900 Mode

Frequency	Reading	Correct	Result	Limit	Margin	Polar
(MHz)	(dBm)	dB	(dBm)	(dBm)	(dB)	H/V
Low Channel (1850.2MHz)						
3700.4	-39.47	10.54	-28.93	-13	-15.93	H
5550.6	-48.29	13.37	-34.92	-13	-21.92	H
3700.4	-40.42	10.54	-29.88	-13	-16.88	V
5550.6	-48.55	13.37	-35.18	-13	-22.18	V
Middle Channel (1880MHz)						
3760.0	-39.76	10.64	-29.12	-13	-16.12	H
5640.0	-46.57	13.54	-33.03	-13	-20.03	H
3760.0	-40.5	10.64	-29.86	-13	-16.86	V
5640.0	-48.7	13.54	-35.16	-13	-22.16	V
High Channel (1909.8MHz)						
3819.6	-42.53	10.74	-31.79	-13	-18.79	H
5729.4	-46.27	13.71	-32.56	-13	-19.56	H
3819.6	-39.82	10.74	-29.08	-13	-16.08	V
5729.4	-49.25	13.71	-35.54	-13	-22.54	V

➤ For WCDMA Band V Mode

Frequency (MHz)	Reading (dBm)	Correct dB	Result (dBm)	Limit (dBm)	Margin (dB)	Polar H/V
Low Channel (826.4MHz)						
1652.8	-35.92	4.94	-30.98	-13	-17.98	H
2479.2	-41.13	8.46	-32.67	-13	-19.67	H
1652.8	-37.16	4.94	-32.22	-13	-19.22	V
2479.2	-44.84	8.46	-36.38	-13	-23.38	V
Middle Channel (836.6MHz)						
1672.8	-34.35	5.11	-29.24	-13	-16.24	H
2509.2	-41.02	8.54	-32.48	-13	-19.48	H
1672.8	-37.43	5.11	-32.32	-13	-19.32	V
2509.2	-43.7	8.54	-35.16	-13	-22.16	V
High Channel (846.6MHz)						
1693.2	-36.2	5.25	-30.95	-13	-17.95	H
2539.8	-42.74	8.57	-34.17	-13	-21.17	H
1693.2	-37.61	5.25	-32.36	-13	-19.36	V
2539.8	-42.45	8.57	-33.88	-13	-20.88	V

➤ For WCDMA Band II Mode

Frequency (MHz)	Reading (dBm)	Correct dB	Result (dBm)	Limit (dBm)	Margin (dB)	Polar H/V
Low Channel (1852.4MHz)						
3704.8	-39.29	10.54	-28.75	-13	-15.75	H
5557.2	-46.03	13.37	-32.66	-13	-19.66	H
3704.8	-39.10	10.54	-28.56	-13	-15.56	V
5557.2	-49.20	13.37	-35.83	-13	-22.83	V
Middle Channel (1880MHz)						
3760.8	-39.28	10.64	-28.64	-13	-15.64	H
5640.0	-46.29	13.54	-32.75	-13	-19.75	H
3760.8	-39.05	10.64	-28.41	-13	-15.41	V
5640.0	-46.04	13.54	-32.50	-13	-19.50	V
High Channel (1907.6MHz)						
3815.2	-40.17	10.74	-29.43	-13	-16.43	H
5722.8	-46.63	13.71	-32.92	-13	-19.92	H
3815.2	-39.58	10.74	-28.84	-13	-15.84	V
5722.8	-47.56	13.71	-33.85	-13	-20.85	H

Note: Result=Reading+ Correct, Margin= Result- Limit

Note: Testing is carried out with frequency rang 9kHz to the tenth harmonics, other than listed in the table above are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

***** END OF REPORT *****