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FCC Test Report

Report No.: AGC01270131205FE08

FCC ID : YSEGO950

APPLICATION PURPOSE : Original Equipment

PRODUCT DESIGNATION: Mobile Phone

BRAND NAME : GOMOBILE, MOVISTAR

MODEL NAME : GO950

CLIENT : Nexus Telecom Inc.

DATE OF ISSUE : Jan. 22, 2014

STANDARD(S) : FCC Part 15 Rules

REPORT VERSION: V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd

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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Jan. 22, 2014	Valid	Original Report

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1. VERIFICATION OF COMPLIANCE

Applicant	Nexus Telecom Inc.
Address	PO Box 873, Venterpool Plaza 873 Road Town, Tortola Virgin Islands (British)
Manufacturer Shenzhen Fortuneship Technology CO., LTD.	
Address Room401, Block B, TCL Building, No.33 Nanhai Road, Nanshan Distriction Shenzhen	
Product Designation	Mobile Phone
Brand Name	GOMOBILE, MOVISTAR
Test Model	GO950
Difference description	All the same except for brand name; The test model has two types of prototype, one is SINGLE SIM, one is DOUBLE SIM; The test data recorded in the report was about the DOUBLE SIM.
Date of test	Jan.15, 2014 to Jan.18, 2014
Deviation	None
Condition of Test Sample	Normal
Report Template	AGCRT-US-BLE/RF (2013-03-01)

WE HEREBY CERTIFY THAT:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4 (2003) and the energy emitted by the sample EUT tested as described in this report is in compliance with requirement of FCC Part 15 Rules requirement.

Prepared By

Wall Huang Jan. 22, 2014

Checked By

Kidd Yang Jan. 22, 2014

Authorized By

Solger Zhang Jan. 22, 2014

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2.GENERAL INFORMATION 2.1PRODUCT DESCRIPTION

The EUT is designed as a "**Mobile Phone**". It is designed by way of utilizing the FHSS technology to achieve the system operation.

A major technical description of EUT is described as following

Operation Frequency	2.402 GHz to 2.480GHz
Bluetooth Version	V4.0
Modulation	GFSK
Number of channels	40 Channel(37 Hopping Channel,3 advertising Channel)
Antenna Designation	Integrated Antenna
Antenna Gain	1.2dBi
Hardware Version	A500-MB-V0.3A
Software Version	A500_03S_GO950_B916D_V07_20140108
Power Supply	DC3.7V by Built-in Li-ion Battery

2.2 RELATED SUBMITTAL(S)/GRANT(S)

This submittal(s) (test report) is intended for **FCC ID: FFDD** filing to comply with Section 15.247of the FCC Part 15, Subpart C Rules.

2.3TEST METHODOLOGY

All measurements contained in this report were conducted with ANSI C63.4-2003, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

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. The EUT was tested in all three orthogonal planes and the worse case was showed.

2.4 TEST FACILITY

All measurement facilities used to collect the measurement data are located at Attestation of Global Compliance (Shenzhen) Co, Ltd

2/F., Building 2, No.1-No.4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Bao'an District, Shenzhen, Guangdong, China.

FCC register No.: 259865

2.5 SPECIAL ACCESSORIES

Refer to section 2.2.

2.6 EQUIPMENT MODIFICATIONS

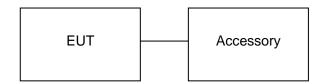
Not available for this EUT intended for grant.

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3. SYSTEM TEST CONFIGURATION

3.1 CONFIGURATION OF TESTED SYSTEM

Configuration



3.2 EQUIPMENT USED IN TESTED SYSTEM

Item	Equipment	Model No.	ID or Specification	Note
1	Mobile Phone	GO950	FCC ID: YSEGO950	EUT
2	Adapter	GO950	DC5.0V /700mA	Accessory
3	Battery	GO950	DC3.7V/ 1400 mAh	Accessory
4	Earphone	GO950	N/A	Accessory
5	USB Cable	GO950	N/A	Accessory

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4. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§ 15.203	Antenna Requirement	Compliant
§15.209 §15.247(d)	Radiated Emission	Compliant
§15.247(d)	Band Edges	Compliant
§15.247	6 dB Bandwidth	Compliant
§15.247(b)	Conducted Power	Compliant
§15.247(e)	Maximum Conducted Output Power SPECTRAL Density	Compliant
§15.207	Line Conduction Emission	Compliant

5. DESCRIPTION OF TEST MODES

The EUT has been operated in three modulations: GFSK independently.

NO.	TEST MODE DESCRIPTION
1	Low channel TX
2	Middle channel TX
3	High channel TX
4	Normal Operating (BT)

Note:

^{1.} All the test modes can be supply by Built-in Li-ion battery, only the result of the worst case was recorded in the report if no any records.

^{2.} For Radiated Emission, 3axis were chosen for testing for each applicable mode.

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6. ANTENNA REQUIREMENT

6.1. STANDARD APPLICABLE

According to FCC 15.203, An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of Sections 15.211, 15.213, 15.217, 15.219, or 15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with Section 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this Part are not exceeded.

6.2. TEST RESULT

This product has a permanent antenna, fulfill the requirement of this section.

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7. RADIATED EMISSION

7.1 MEASUREMENT PROCEDURE

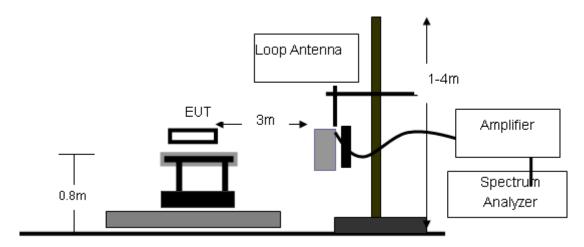
 Configure the EUT according to ANSI C63.4. The EUT was placed on the top of the turntable 0.8 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.

- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- 4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
- 5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- For emissions above 1GHz, use 1MHz VBW and RBW for peak reading. Then 1MHz RBW and 10Hz VBW for average reading in spectrum analyzer.
- 7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
- 8.If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
- 9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- 10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High Low scan is not required in this case.

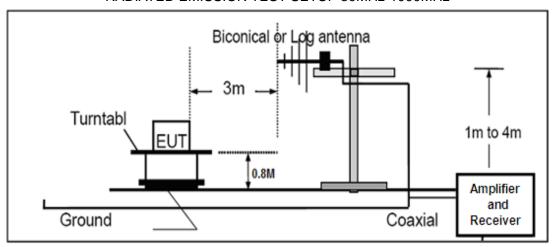
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7.2 TEST SETUP

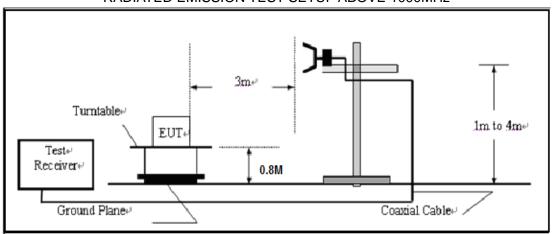
RADIATED EMISSION TEST SETUP BELOW 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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7.3 LIMITS AND MEASUREMENT RESULT

15.209 Limit in the below table has to be followed

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

Note: All modes were tested For restricted band radiated emission,

the test records reported below are the worst result compared to other modes.

7.4 TEST RESULT

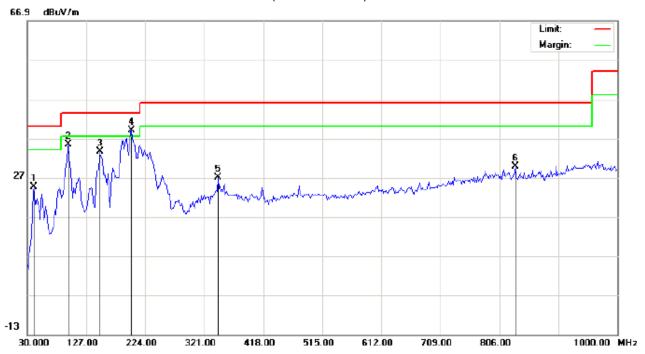
RADIATED EMISSION BELOW 30MHZ

No emission found between lowest internal used/generated frequencies to 30MHz.

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RADIATED EMISSION BELOW 1GHZ

RADIATED EMISSION TEST- (30MHZ-1GHZ)-LOW CHANNEL-HORIZONTAL



Site: site #1

Limit: FCC Class B 3M Radiation

EUT: Mobile Phone

M/N: GO950

Mode: Low Channel TX

Note:

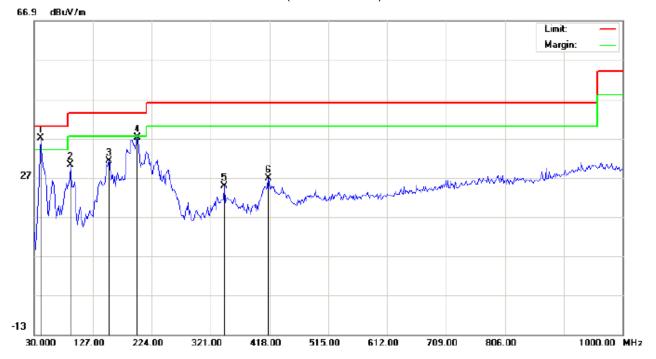
Polarization:	Horizontal	Temperature: 2	26
Power:		Humidity: 60 %	6

Distance:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		41.3166	12.74	11.81	24.55	40.00	-15.45	peak			
2		97.9000	25.18	10.25	35.43	43.50	-8.07	peak			
3		149.6331	18.37	15.26	33.63	43.50	-9.87	peak			
4	*	201.3667	26.93	12.05	38.98	43.50	-4.52	peak			
5		343.6333	8.68	18.32	27.00	46.00	-19.00	peak			
6		831.8667	2.45	27.31	29.76	46.00	-16.24	peak			

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RADIATED EMISSION TEST- (30MHZ-1GHZ)-LOW CHANNEL -VERTICAL



Site: site #1

Limit: FCC Class B 3M Radiation

EUT: Mobile Phone

M/N: GO950

Mode: Low Channel TX

Note:

Polarization:	Vertical	Temperature: 26
Power:		Humidity: 60 %

Distance:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1	*	41.3166	28.25	8.81	37.06	40.00	-2.94	peak			
2		89.8165	24.92	5.31	30.23	43.50	-13.27	peak			
3		152.8667	15.96	15.28	31.24	43.50	-12.26	peak			
4		199.7500	28.19	9.06	37.25	43.50	-6.25	peak			
5		343.6333	6.46	18.32	24.78	46.00	-21.22	peak			
6		416.3833	7.17	19.57	26.74	46.00	-19.26	peak			

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RADIATED EMISSION TEST- (30MHZ-1GHZ)-MIDDLE CHANNEL-HORIZONTAL



Site: site #1

Limit: FCC Class B 3M Radiation

EUT: Mobile Phone

M/N: GO950

Mode: Middle Channel TX

Note:

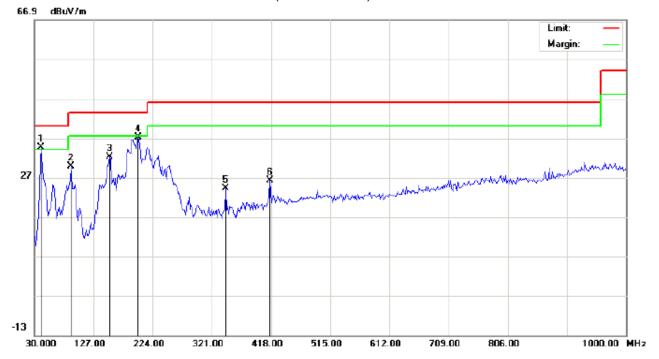
Polarization: Horizontal Temperature: 26
Power: Humidity: 60 %

Distance:

Table Antenna Factor Measurement Limit Over Freq. Reading Mk Height Degree No. Detector Comment MHz dBu∀ dB/m dBuV/m dBu∀/m dΒ degree cm 97.9000 10.25 34.43 1 24.18 43.50 -9.07 peak 2 149.6331 18.37 15.26 33.63 43.50 -9.87 peak peak 3 201.3667 26.93 12.05 38.98 43.50 -4.524 343.6333 9.68 18.32 28.00 46.00 -18.00 peak 5 675.0499 2.64 24.52 27.16 46.00 -18.84 peak 6 812.4666 2.28 27.32 29.60 46.00 -16.40 peak

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RADIATED EMISSION TEST- (30MHZ-1GHZ)- MIDDLE CHANNEL -VERTICAL



Site: site #1 Limit: FCC Class B 3M Radiation

EUT: Mobile Phone

M/N: GO950

Mode: Middle Channel TX

Note:

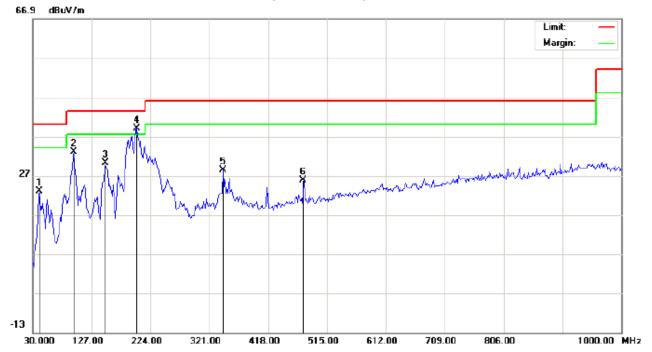
Polarization:	Vertical	Temperature: 26	5
Power:		Humidity: 60 %	

Distance:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1	*	41.3166	25.75	8.81	34.56	40.00	-5.44	peak			
2		89.8165	24.42	5.31	29.73	43.50	-13.77	peak			
3		152.8667	16.96	15.28	32.24	43.50	-11.26	peak			
4		199.7500	28.19	9.06	37.25	43.50	-6.25	peak			
5		343.6333	5.96	18.32	24.28	46.00	-21.72	peak			
6		416.3833	6.67	19.57	26.24	46.00	-19.76	peak			

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RADIATED EMISSION TEST- (30MHZ-1GHZ)-HIGH CHANNEL-HORIZONTAL



Site: site #1 Limit: FCC Class B 3M Radiation

EUT: Mobile Phone

M/N: GO950

Mode: High Channel TX

Note:

Polarization:	Horizontal	Temperature: 26
Power:		Humidity: 60 %

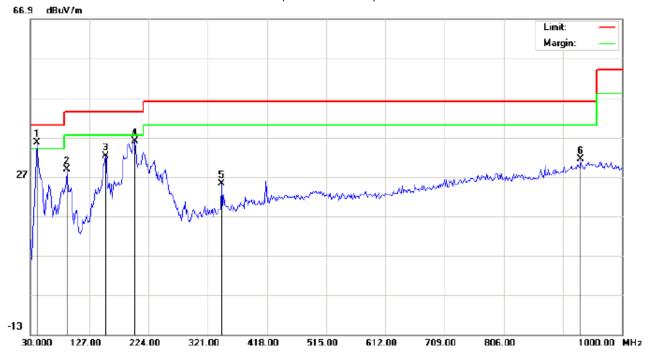
Distance:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		41.3166	11.24	11.81	23.05	40.00	-16.95	peak			
2		97.9000	22.68	10.25	32.93	43.50	-10.57	peak			
3		149.6331	14.87	15.26	30.13	43.50	-13.37	peak			
4	*	201.3667	26.93	12.05	38.98	43.50	-4.52	peak			
5		343.6333	10.18	18.32	28.50	46.00	-17.50	peak			
6		476.1999	4.85	20.87	25.72	46.00	-20.28	peak			

Temperature: 26 Humidity: 60 %

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RADIATED EMISSION TEST- (30MHZ-1GHZ)-HIGH CHANNEL -VERTICAL



Polarization: Vertical

Site: site #1 Limit: FCC Class B 3M Radiation

EUT: Mobile Phone

M/N: GO950

Mode: High Channel TX

932.1000

1.85

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1	*	41.3166	26.75	8.81	35.56	40.00	-4.44	peak			
2		89.8165	23.42	5.31	28.73	43.50	-14.77	peak			
3		152.8667	16.96	15.28	32.24	43.50	-11.26	peak			
4		201.3667	26.94	9.13	36.07	43.50	-7.43	peak			
5		343.6333	6.96	18.32	25.28	46.00	-20.72	peak			

46.00 -14.65

peak

Power:

Distance:

RESULT: PASS

6

Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

29.50

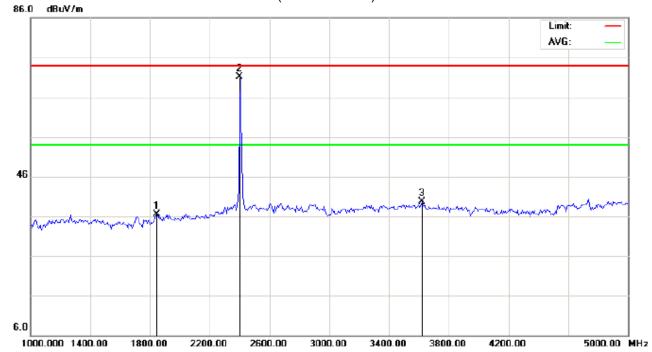
2. The "Factor" value can be calculated automatically by software of measurement system.

31.35

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RADIATED EMISSION ABOVE 1GHZ

RADIATED EMISSION TEST- (ABOVE 1GHZ)-LOW CHANNEL-HORIZONTAL



Site: site #1 Polarization: Horizontal Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: Humidity: 60 %

EUT:Mobile Phone Distance:

M/N:GO950

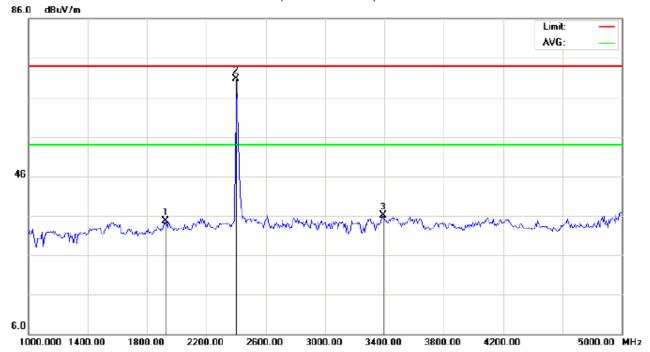
Mode: low channel

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu\//m	dBu∀/m	dB		cm	degree	
1		1846.667	48.27	-11.73	36.54	74.00	-37.46	peak			
2	*	2402.000	80.82	-9.68	71.14	74.00	-2.86	peak			
3		3620.000	46.76	-7.15	39.61	74.00	-34.39	peak			

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RADIATED EMISSION TEST-(ABOVE 1GHZ)-LOW CHANNEL-VERTICAL



Site: site #1 Polarization: Vertical Temperature: 26

Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: Humidity: 60 %

EUT:Mobile Phone Distance:

M/N:GO950

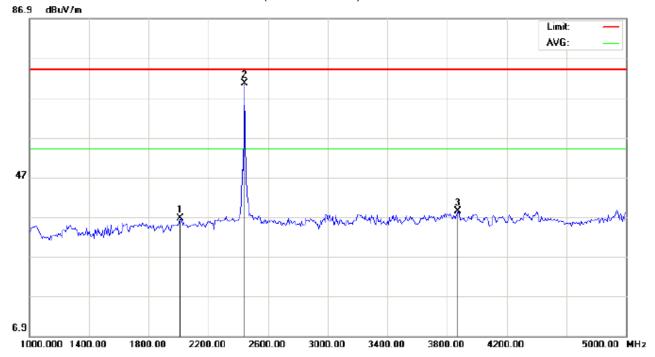
Mode: low channel

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu\//m	dBu∀/m	dB		cm	degree	
1		1926.667	45.60	-10.89	34.71	74.00	-39.29	peak			
2	*	2402.000	80.32	-9.68	70.64	74.00	-3.36	peak			
3		3393.333	44.18	-7.99	36.19	74.00	-37.81	peak			

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RADIATED EMISSION TEST-(ABOVE 1GHZ)-MIDDLE CHANNEL-HORIZONTAL



Site: site #1 Polarization: Horizontal Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: Humidity: 60 %

EUT:Mobile Phone Distance:

M/N:GO950

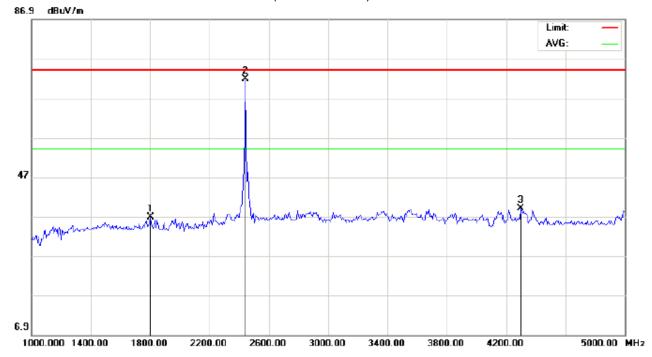
Mode: middle channel

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu\//m	dBu∀/m	dB		cm	degree	
1		2013.333	46.68	-10.10	36.58	74.00	-37.42	peak			
2	*	2440.000	80.20	-9.64	70.56	74.00	-3.44	peak			
3		3873.333	44.06	-5.59	38.47	74.00	-35.53	peak			

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RADIATED EMISSION TEST-(ABOVE 1GHZ)-MIDDLE CHANNEL-VERTICAL



Site: site #1 Polarization: Vertical Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: Humidity: 60 %

EUT:Mobile Phone Distance:

M/N:GO950

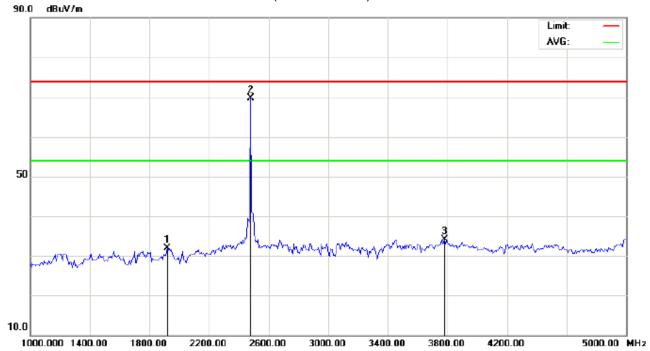
Mode: middle channel

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
	-	MHz	dBu∀	dB/m	dBuV/m	dBu∀/m	dB		cm	degree	
1		1800.000	49.00	-12.22	36.78	74.00	-37.22	peak			
2	*	2440.000	81.39	-9.64	71.75	74.00	-2.25	peak			
3		4300.000	42.87	-3.79	39.08	74.00	-34.92	peak			

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RADIATED EMISSION TEST-(ABOVE 1GHZ)-HIGH CHANNEL-HORIZONTAL



Site: site #1 Polarization: Horizontal Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: Humidity: 60 %

EUT:Mobile Phone Distance:

M/N:GO950

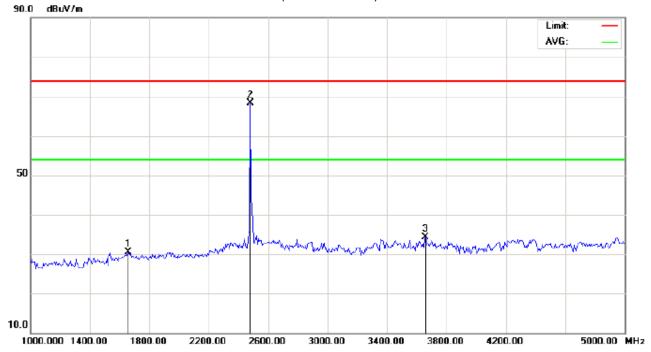
Mode: high channel

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		1920.000	42.82	-10.96	31.86	74.00	-42.14	peak			
2	*	2480.000	79.35	-9.59	69.76	74.00	-4.24	peak			
3		3780.000	40.30	-6.17	34.13	74.00	-39.87	peak			

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RADIATED EMISSION TEST-(ABOVE 1GHZ)-HIGH CHANNEL-VERTICAL



Site: site #1 Polarization: Vertical Temperature: 26

Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: Humidity: 60 %

EUT:Mobile Phone Distance:

M/N:GO950

Mode: high channel

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu\//m	dBu∀/m	dB		cm	degree	
1		1660.000	44.13	-13.70	30.43	74.00	-43.57	peak			
2	*	2480.000	77.94	-9.59	68.35	74.00	-5.65	peak			
3		3660.000	41.21	-6.90	34.31	74.00	-39.69	peak			

RESULT: PASS

Note: 5~25GHz at least have 20dB margin. No recording in the test report.

Factor=Antenna Factor+ Cable loss-Amplifier gain,

Margin=Measurement-Limit.

The "Factor" value can be calculated automatically by software of measurement system.

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8. BAND EDGE EMISSION

8.1. MEASUREMENT PROCEDURE

- 1. Set the EUT Work on the top, the bottom operation frequency individually.
- 2. Set SPA Start or Stop Frequency = Operation Frequency, RBW>=1%span, VBW>=RBW
- 3. The band edges was measured and recorded.

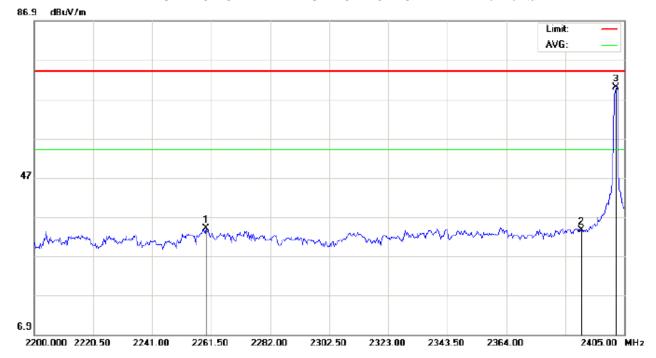
8.2. TEST SET-UP

Radiated same as 6.2

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8.3. TEST RESULT

TEST PLOT OF BAND EDGE FOR LOW CHANNEL -Horizontal



Site: site #1 Polarization: Horizontal Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: Humidity: 60 %

EUT:Mobile Phone Distance:

M/N:GO950

Mode: Low Channel TX

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2259.792	43.76	-9.83	33.93	74.00	-40.07	peak			
2		2390.000	43.21	-9.69	33.52	74.00	-40.48	peak			
3	*	2402.000	79.74	-9.68	70.06	74.00	-3.94	peak			

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TEST PLOT OF BAND EDGE FOR LOW CHANNEL - Vertical



Site: site #1 Polarization: Vertical Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: Humidity: 60 %

EUT:Mobile Phone Distance:

M/N:GO950

Mode: Low Channel TX

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu\//m	dBu∀/m	dB		cm	degree	
1		2329.492	42.12	-9.76	32.36	74.00	-41.64	peak			
2		2390.000	40.84	-9.69	31.15	74.00	-42.85	peak			
3	*	2402.000	79.99	-9.68	70.31	74.00	-3.69	peak			

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TEST PLOT OF BAND EDGE FOR HIGH CHANNEL -Horizontal



Site: site #1 Polarization: Horizontal Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: Humidity: 60 %

EUT:Mobile Phone Distance:

M/N:GO950

Mode: High Channel TX

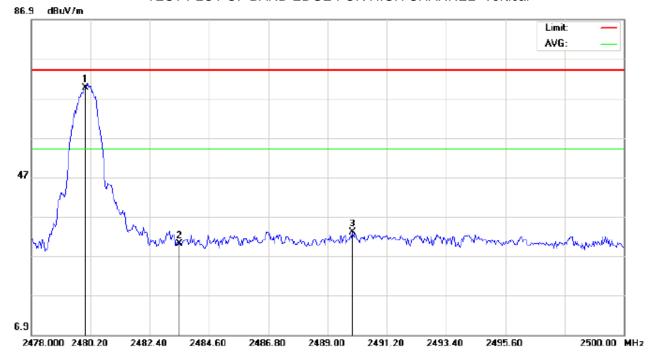
Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1	*	2480.000	78.96	-9.59	69.37	74.00	-4.63	peak			
2		2483.500	39.56	-9.59	29.97	74.00	-44.03	peak			
3		2492.300	41.17	-9.58	31.59	74.00	-42.41	peak			

Humidity: 60 %

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TEST PLOT OF BAND EDGE FOR HIGH CHANNEL -Vertical



Site: site #1 Polarization: Vertical Temperature: 26 Limit: FCC Class B 3M Radiation above 1GHZ(PK)

Power:

EUT:Mobile Phone Distance:

M/N:GO950

Mode: High Channel TX

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1	*	2480.000	79.26	-9.59	69.67	74.00	-4.33	peak			
2		2483.500	39.63	-9.59	30.04	74.00	-43.96	peak			
3		2489.917	42.63	-9.58	33.05	74.00	-40.95	peak			

RESULT: PASS

Note: The other modes radiation emission have enough 20dB margin.

Factor=Antenna Factor + Cable loss - Amplifier gain, Over=Measure-Limit.

The "Factor" value can be calculated automatically by software of measurement system.

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9. 6DB BANDWIDTH

9.1. TEST EQUIPMENT LIST AND DETAILS

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
PSA SERIES SPECTRUM ANALYZER	AGILENT	E4440A	US41421290	07/17/2013	07/16/2014
RECEIVER ANTENNA	ETS	2175	57337	07/17/2013	07/16/2014

9.2. TEST PROCEDURE

- 1. The EUT was placed on a table which is 0.8m above ground plane.
- 2. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 3. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 3. Set SPA Centre Frequency = Operation Frequency, RBW= 100 KHz, VBW≥RBW.
- 4. Set SPA Trace 1 Max hold, then View.

9.3. SUMMARY OF TEST RESULTS/PLOTS

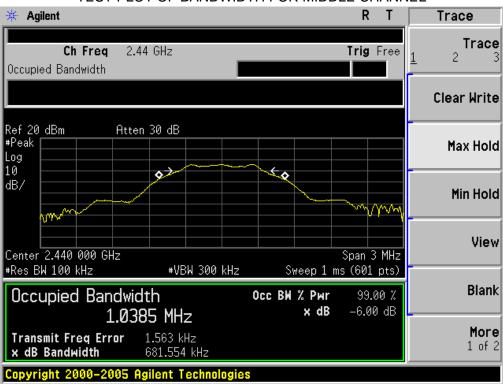
Channel	6dB Bandwidth (KHz)	Minimum Limit (KHz)	Pass/Fail
Low	676.914		Pass
Middle	681.554	500KHz	Pass
High	700.451		Pass

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TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

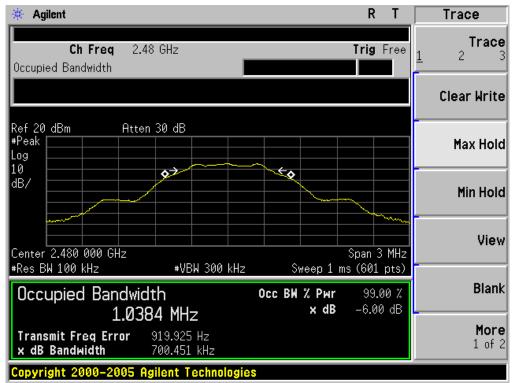


TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



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TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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10. CONDUCTED OUTPUT POWER

10.1. MEASUREMENT PROCEDURE

- 1. The EUT was placed on a turn table which is 0.8m above ground plane.
- 2. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 3. Set the EUT Work on the top, middle and the bottom operation frequency individually.
- 4. Use the following spectrum analyzer settings:

Set the RBW = 1 MHz

Set the VBW ≥ 3 RBW

Set the span \geq 1.5 x DTS bandwidth

Detector = peak

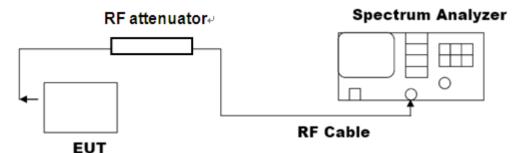
Sweep time = auto couple

Trace mode = max hold

- 5. Allow the trace to stabilize. Use the instrument's band/channel power measurement function with the band limits set equal to the DTS bandwidth edges.
- 6. Record the result form the Spectrum Analyzer.

Note: The EUT was tested according to KDB 558074 for compliance to FCC 47CFR 15.247 requirements.

10.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

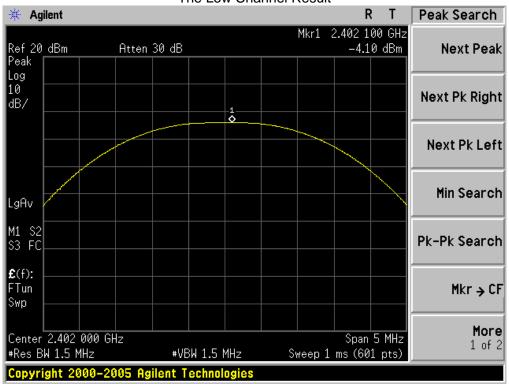


10.3. LIMITS AND MEASUREMENT RESULT

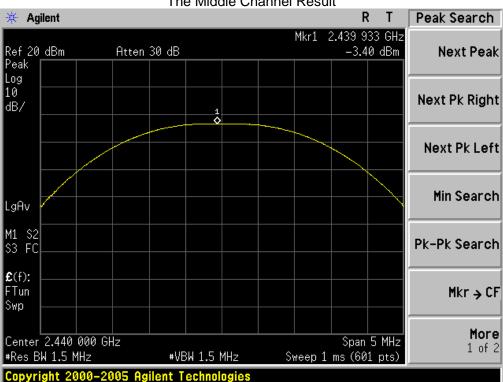
Channel	Peak Power (dBm)	Applicable Limits (dBm)	Pass/Fail
Low Channel	-4.10	20	Pass
Middle Channel	-3.40	20	Pass
High Channel	-4.29	20	Pass

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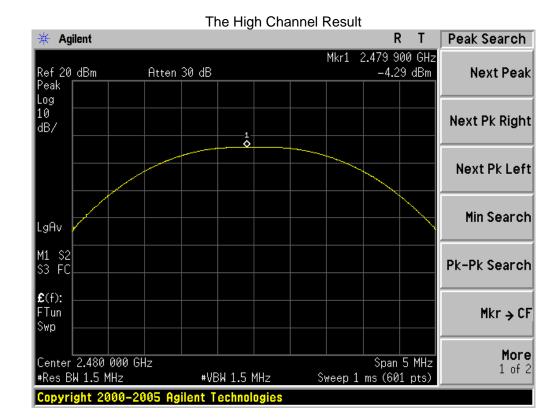
The Low Channel Result



The Middle Channel Result



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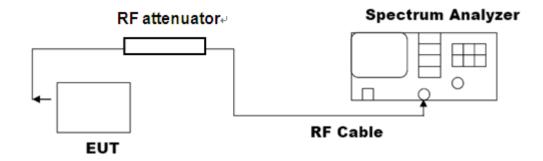
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11. MAXIMUM CONDUCTED OUTPUT POWER SPECTRAL DENSITY 11.1 MEASUREMENT PROCEDURE

- (1). The EUT was placed on a turn table which is 0.8m above ground plane.
- (2). Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- (3). Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- (4). Set SPA Trace 1 Max hold, then View.

Note: The EUT was tested according to KDB 558074 for compliance to FCC 47CFR 15.247 requirements.

11.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)



11.3 MEASUREMENT EQUIPMENT USED

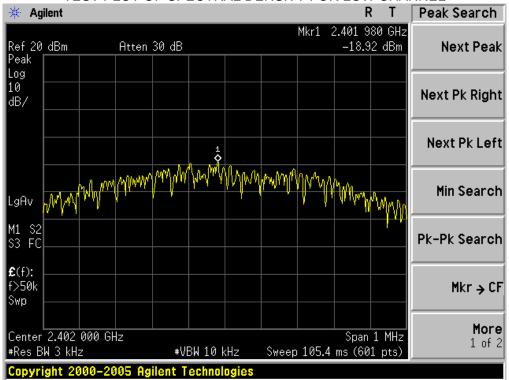
Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
PSA SERIES SPECTRUM ANALYZER	AGILENT	E4440A	US41421290	07/17/2013	07/16/2014
RECEIVER ANTENNA	ETS	2175	57337	07/17/2013	07/16/2014

11.4 LIMITS AND MEASUREMENT RESULT

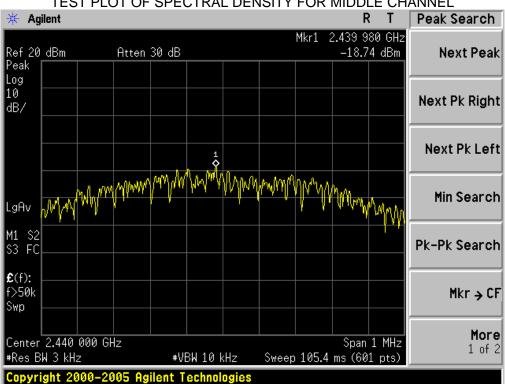
Channel No.	PSD (dBm)	Limit (dBm)	Result
Low Channel	-18.92	8	Pass
Middle Channel	-18.74	8	Pass
High Channel	-19.69	8	Pass

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TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL

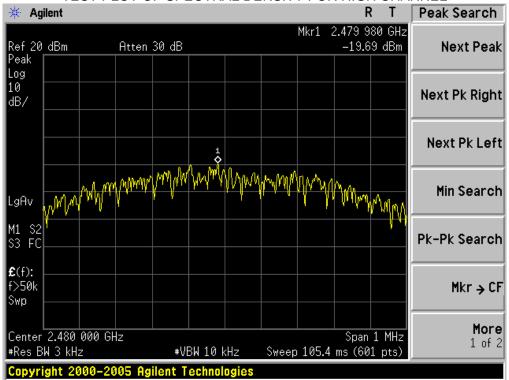


TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL



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TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL



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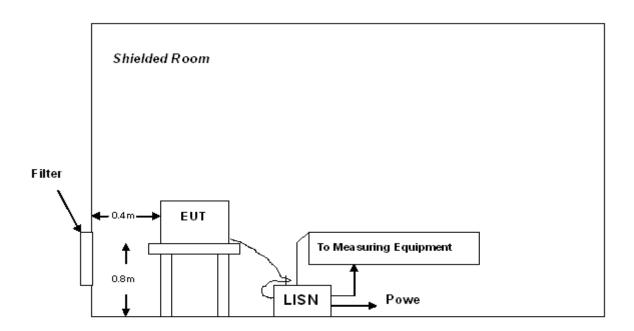
12. FCC LINE CONDUCTED EMISSION TEST

12.1 LIMITS

Fraguency	Maximum RF Line Voltage							
Frequency	Q.P.(dBuV)	Average(dBuV)						
150kHz~500kHz	66-56	56-46						
500kHz~5MHz	56	46						
5MHz~30MHz	60	50						

^{**}Note: 1. The lower limit shall apply at the transition frequency.

12.2 TEST SETUP



A: Powered through filter

^{2.} The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz

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12.3 PRELIMINARY PROCEDURE

- The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.4 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- 2) Support equipment, if needed, was placed as per ANSI C63.4.
- 3) All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.
- 4) All support equipments received AC120V/60Hz power from a LISN, if any.
- 5) The EUT received power by adapter which received power by a LISN.
- 6) The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7) Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
- 8) During the above scans, the emissions were maximized by cable manipulation.
- 9) The following test mode(s) were scanned during the preliminary test. Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

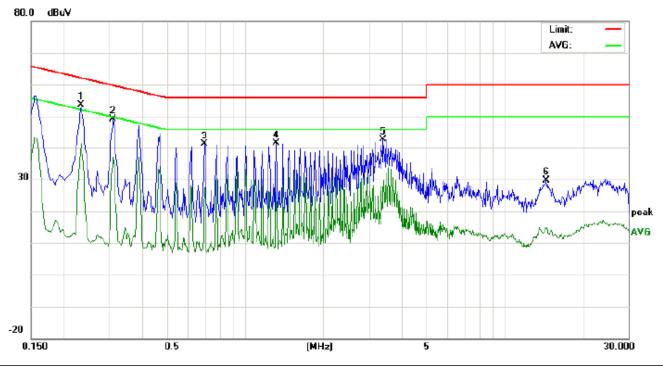
12.4 FINAL TEST PROCEDURE

- 10) EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
- 11) 2) A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less –2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
- 12) 3) The test data of the worst case condition(s) was reported on the Summary Data page.

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12.5 TEST RESULT OF POWER LINE

Line Conducted Emission Test Line 1-L



Site: Conduction Phase: L1 Temperature: 26
Limit: FCC Class B Conduction(QP) Power: Humidity: 60 %

EUT: Mobile Phone M/N: GO950

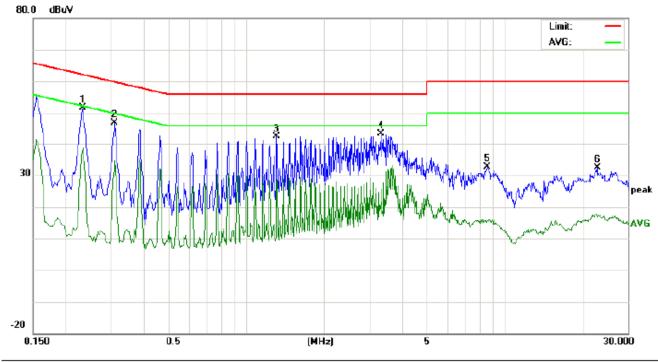
Mode: Normal Operating(BT)

Note:

	Freq.	Reading_Level (dBuV)			Correct Factor	Measurement (dBuV)			Limit (dBuV)		Margin (dB)		P/F	Comment
	(MHz)	Peak	QP	AVG	dB	Peak	QP	AVG	QP	AVG	QP	AVG		
1	0.2340	43.35		31.03	10.25	53.60		41.28	62.30	52.30	-8.70	-11.02	Р	
2	0.3099	38.90		26.54	10.29	49.19		36.83	59.97	49.97	-10.78	-13.14	Р	
3	0.6976	30.73		16.86	10.35	41.08		27.21	56.00	46.00	-14.92	-18.79	Р	
4	1.3220	30.95		15.39	10.38	41.33		25.77	56.00	46.00	-14.67	-20.23	Р	
5	3.4140	32.13		15.12	10.52	42.65		25.64	56.00	46.00	-13.35	-20.36	Р	
6	14.4579	19.44		4.50	10.12	29.56		14.62	60.00	50.00	-30.44	-35.38	Р	

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Line Conducted Emission Test Line 1-N



Site: Conduction Phase: N Temperature: 26
Limit: FCC Class B Conduction(QP) Power: Humidity: 60 %

EUT: Mobile Phone M/N: GO950

Mode: Normal Operating(BT)

Note:

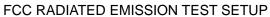
No. Freq. (MHz)		Reading_Level (dBuV)			Correct Factor	asurement (dBuV)		Limit (dBuV)		Margin (dB)		P/F	Comment	
	(MHz)	Peak	QP	AVG	dB	Peak	QP	AVG	QP	AVG	QP	AVG		
1	0.2340	41.36		28.27	10.25	51.61		38.52	62.30	52.30	-10.69	-13.78	Р	
2	0.3099	36.53		24.34	10.29	46.82		34.63	59.97	49.97	-13.15	-15.34	Р	
3	1.3140	31.90		17.41	10.38	42.28		27.79	56.00	46.00	-13.72	-18.21	Р	
4	3.3260	32.86		11.05	10.52	43.38		21.57	56.00	46.00	-12.62	-24.43	Р	
5	8.5899	22.38		5.20	10.32	32.70		15.52	60.00	50.00	-27.30	-34.48	Р	
6	22.7898	22.22		7.05	10.11	32.33		17.16	60.00	50.00	-27.67	-32.84	Р	

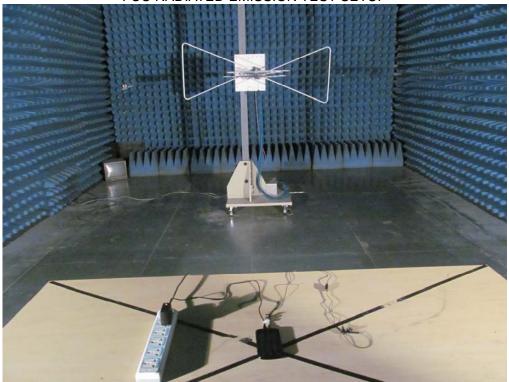
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APPENDIX A: PHOTOGRAPHS OF TEST SETUP

FCC LINE CONDUCTED EMISSION TEST SETUP







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APPENDIX B: PHOTOGRAPHS OF EUT

TOTAL VIEW OF EUT





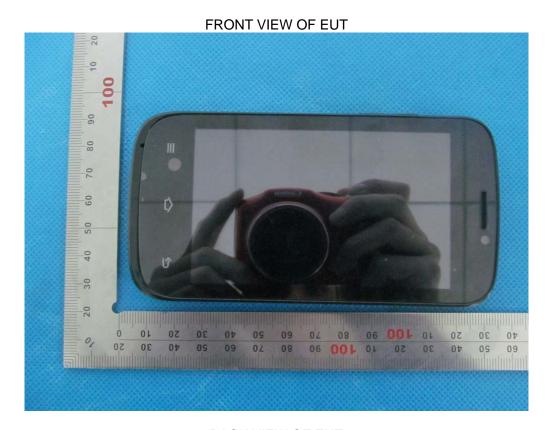
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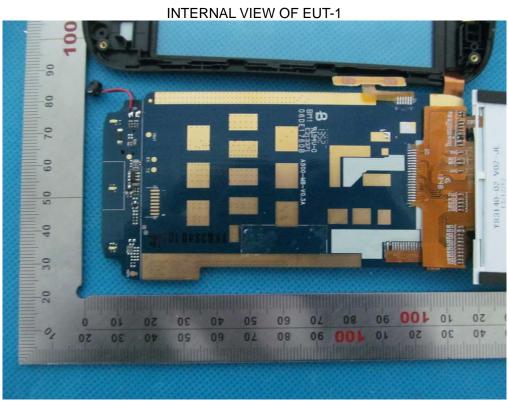
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(BRAND NAME_MOVISTAR) FRONT VIEW OF EUT





----END OF REPORT----