FCC/IC - TEST REPORT

Report Number	:	**68.760.14.192.01**	Date of Issue:	August 4, 2014

Model	:	i47
Product Type	:	Mobile Phone
Applicant	:	PERI INTERNATIONAL LIMITED
Address	:	RM 1605C HO KING COMM CTR 2-16 FA YUEN ST MONGKOK KLN HONG KONG
Production Facility	:	PERI INTERNATIONAL LIMITED
Address	:	RM 1605C HO KING COMM CTR 2-16 FA YUEN ST MONGKOK KLN HONG KONG

Test Result	:	■ **Positive** ☐ **Negative**
Total pages including Appendices	:	17

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1 Table of Contents

1 Table of Contents 2
2 Details about the Test Laboratory 3
3 Description of the Equipment Under Test 4
4 Summary of Test Standards 5
5 Summary of Test Results 6
6 General Remarks 7
7 Systems test configuration 8
8 Technical Requirement 9
8.1 Conducted Emission Test 9
8.2 Radiated Emission Test 30MHz – 1000MHz 13

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2 Details about the Test Laboratory

Details about the Test Laboratory

Company name:	TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch Building 12&13, Zhiheng Wisdomland Business Park, Nantou Checkpoint Road 2, Nanshan District, Shenzhen City, 518052, P. R. China
Telephone:	86 755 8828 6998
Fax:	86 755 8828 5299

Test Site 1

Company name:	Attestation of Global Compliance(Shenzhen) Co., Ltd. 2 F, Building 2, No.1-No.4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang Street, Bao'an District, Shenzhen, China
FCC – Registration No.	259865
Telephone:	86 755 2978 4239
Fax:	86 755 2600 8484

3 Description of the Equipment Under Test

Product:	2.4inch 3G Feature Phone
Model no.:	i47
FCC ID:	2ACRY-3GI47
IC ID:	NIL
Brand Name:	SEA LION
Options and accessories:	NIL
Rating:	AC100-240V 50/60 Hz 0.15A
Description of the EUT:	Class B Equipment

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4 Summary of Test Standards

Test Standards	
FCC Part 15 Subpart B 10-1-13 Edition	Unintentional Radiators
ICES-003 Issue 5 August 2012	Information Technology Equipment (ITE) – Limits and methods of measurement

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5 Summary of Test Results

Emission Tests				
FCC Part 15 Subpart B 10-1-13 Edition/ICES-003 Issue 5				
Test Condition	Pages	Test Result		
		Pass	Fail	N/A
Conducted Emission on AC 150kHz to 30MHz	8	☒	☐	☐
Radiated Emission 30MHz to 1000MHz	12	☒	☐	☐

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6 General Remarks

Remarks

Nil.

SUMMARY:

All tests according to the regulations cited on page 5 were

■ - Performed

☐ - **Not** Performed

The Equipment under Test

■ - **Fulfills** the general approval requirements.

☐ - **Does not** fulfill the general approval requirements.

Sample Received Date: July 10, 2014

Testing Start Date: July 11, 2014

Testing End Date: August 4, 2014

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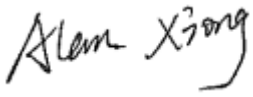
Reviewed by:

John Zhi
EMC Project Manager

Prepared by:



Alan Xiong
EMC Project Engineer

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7 Systems test configuration

The equipment under test (EUT) was configured to measure its highest possible emission level. The test modes were adapted according to the operation manual for use, more detailed description as follows:

Test Configuration List:

TEST MODE	DESCRIPTION	REMARK
TC1	Playing &Charging	1KHz Color Bar
TC2	Downloading	Connect to Notebook

Auxiliary Equipment Used during Test:

DESCRIPTION	MANUFACTURER	MODEL NO.(SHIELD)	S/N(LENGTH)
NoteBook	Lenovo	X220	---

EUT Cable List and Details:

CABLE DESCRIPTION	LENGTH (M)	SHIELDED/ UNSHIELDED	WITH CORE/ WITHOUT CORE
USB Cable	0.8	Shielded	Without Core
Earphone Cable	1.2	Unshielded	Without Core

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8 Technical Requirement

8.1 Conducted Emission Test

Test Method

1. The EUT was placed on a table, which is 0.8m above ground plane
2. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.).
3. Maximum procedure was performed to ensure EUT compliance
4. A EMI test receiver is used to test the emissions from both sides of AC line

Limit

According to §15.107, conducted emissions limit as below:

Frequency MHz	QP Limit dBµV	AV Limit dBµV
0.150-0.500	66-56*	56-46*
0.500-5	56	46
5-30	60	50

Decreasing linearly with logarithm of the frequency

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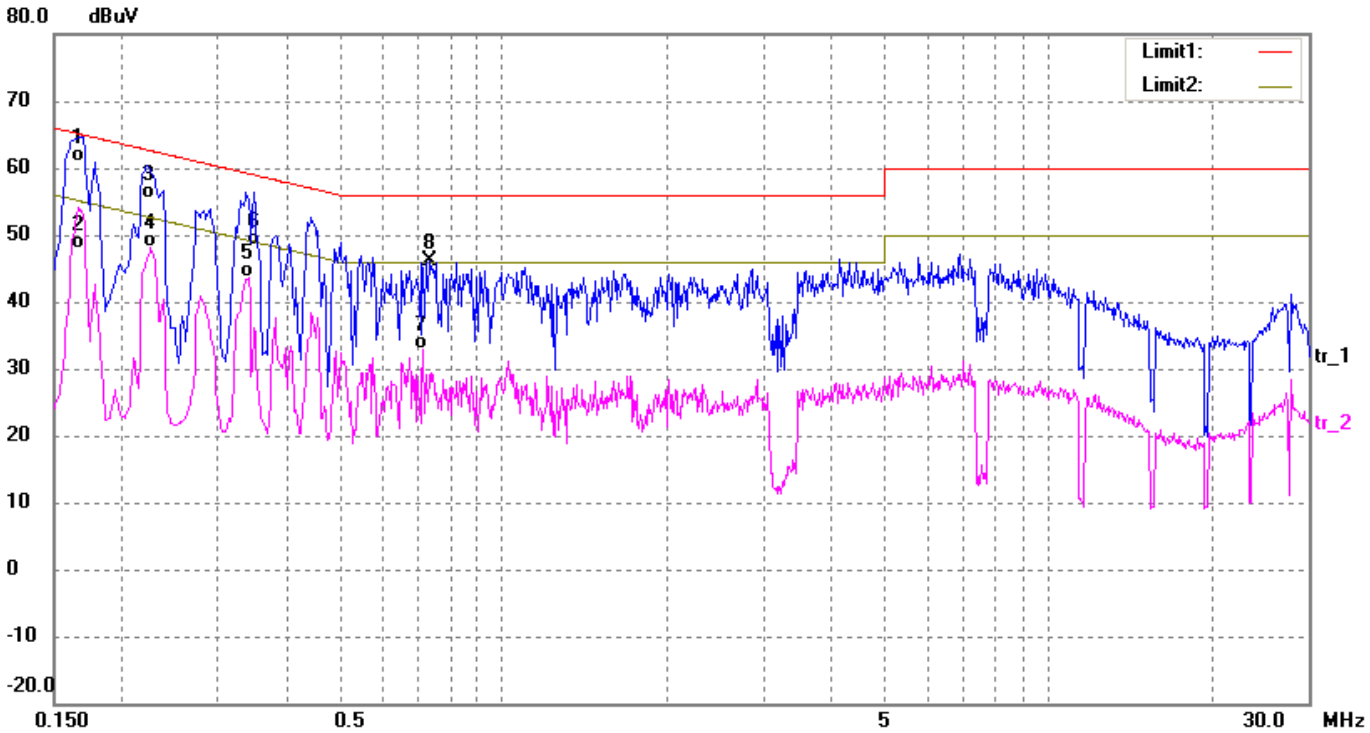
Conducted Emission

Product Type	:	2.4inch 3G Feature Phone
M/N	:	i47
Operating Condition	:	Playing &Charging
Test Specification	:	Line
Comment	:	AC 120V/60Hz



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1660	51.31	9.50	60.81	65.16	-4.35	QP
2	0.1660	38.50	9.50	48.00	55.16	-7.16	AVG
3	0.2220	45.79	9.50	55.29	62.74	-7.45	QP
4	0.2260	38.63	9.50	48.13	52.60	-4.47	AVG
5	0.3420	34.22	9.50	43.72	49.15	-5.43	AVG
6	0.3500	38.83	9.50	48.33	58.96	-10.63	QP
7	0.7140	23.19	9.71	32.90	46.00	-13.10	AVG
8	0.7340	36.30	9.73	46.03	56.00	-9.97	QP

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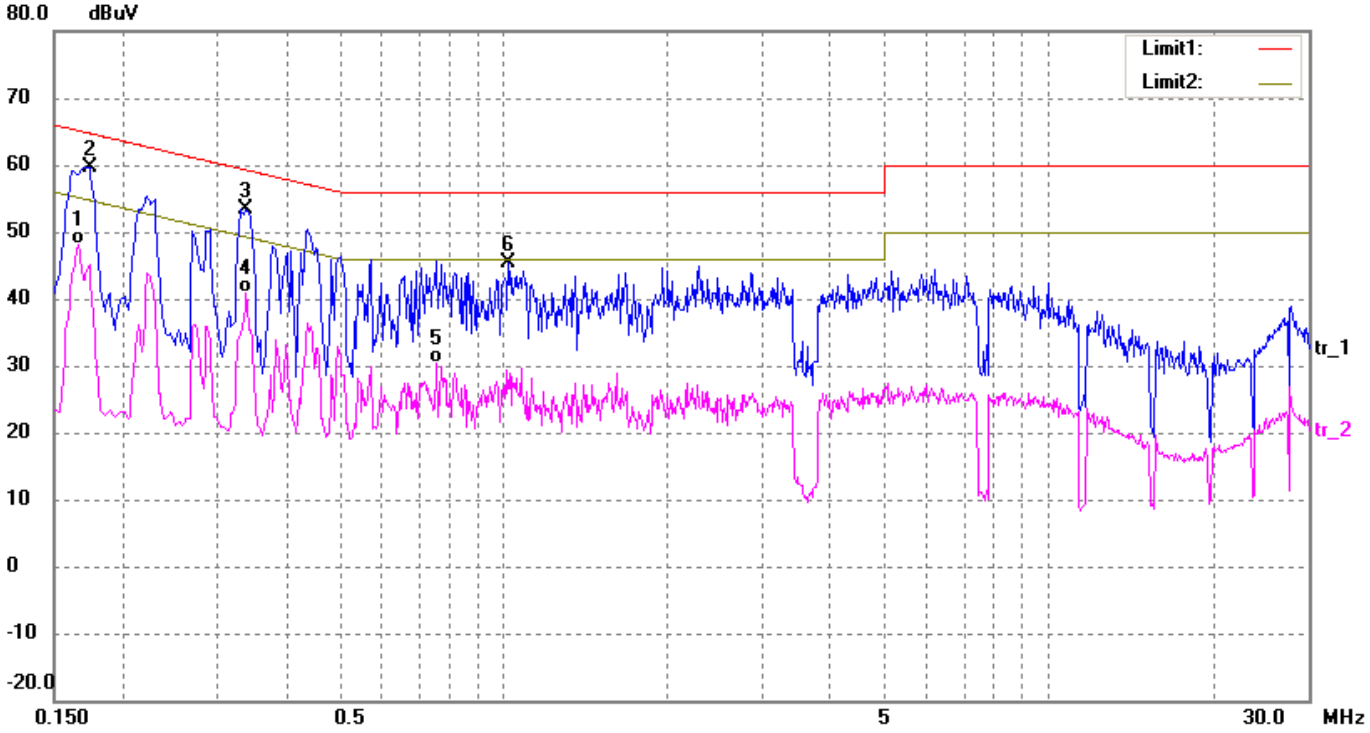
Conducted Emission

Product Type	:	2.4inch 3G Feature Phone
M/N	:	i47
Operating Condition	:	Playing &Charging
Test Specification	:	Neutral
Comment	:	AC 120V/60Hz



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1660	38.65	9.50	48.15	55.16	-7.01	AVG
2	0.1740	50.19	9.50	59.69	64.77	-5.08	QP
3	0.3380	43.92	9.50	53.42	59.25	-5.83	QP
4	0.3380	31.38	9.50	40.88	49.25	-8.37	AVG
5	0.7580	20.58	9.76	30.34	46.00	-15.66	AVG
6	1.0220	35.33	10.00	45.33	56.00	-10.67	QP

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Test Equipment List

Conducted emission test

Equipment	Manufacturer	Model No.	Serial No.	Cal. due. date
EMI Test Receiver	Rohde & Schwarz	ESPI	101611	2015-05-06
L.I.S.N	Schwarz beck	NSLK8126	8126-224	2015-05-06
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100911	2015-05-06

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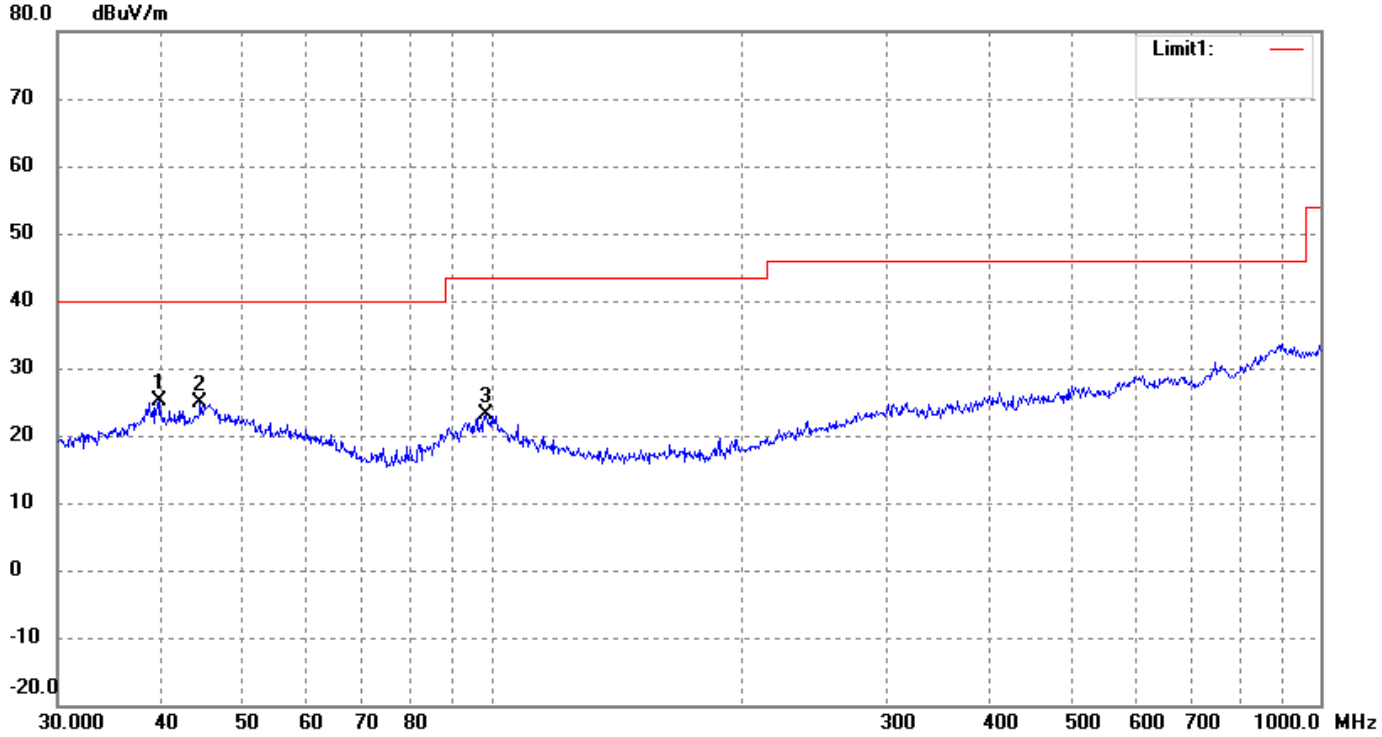
8.2 Radiated Emission Test 30MHz – 1000MHz

Product Type : 2.4inch 3G Feature Phone
M/N : i47
Operating Condition : Playing &Charging
Ant. Polarity Horizontal
Comment : 30-1000MHz



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Detector
1	39.7147	17.90	7.17	25.07	40.00	-14.93	359	200	QP
2	44.5868	18.02	6.80	24.82	40.00	-15.18	359	200	QP
3	98.4866	17.43	5.75	23.18	43.50	-20.32	359	200	QP

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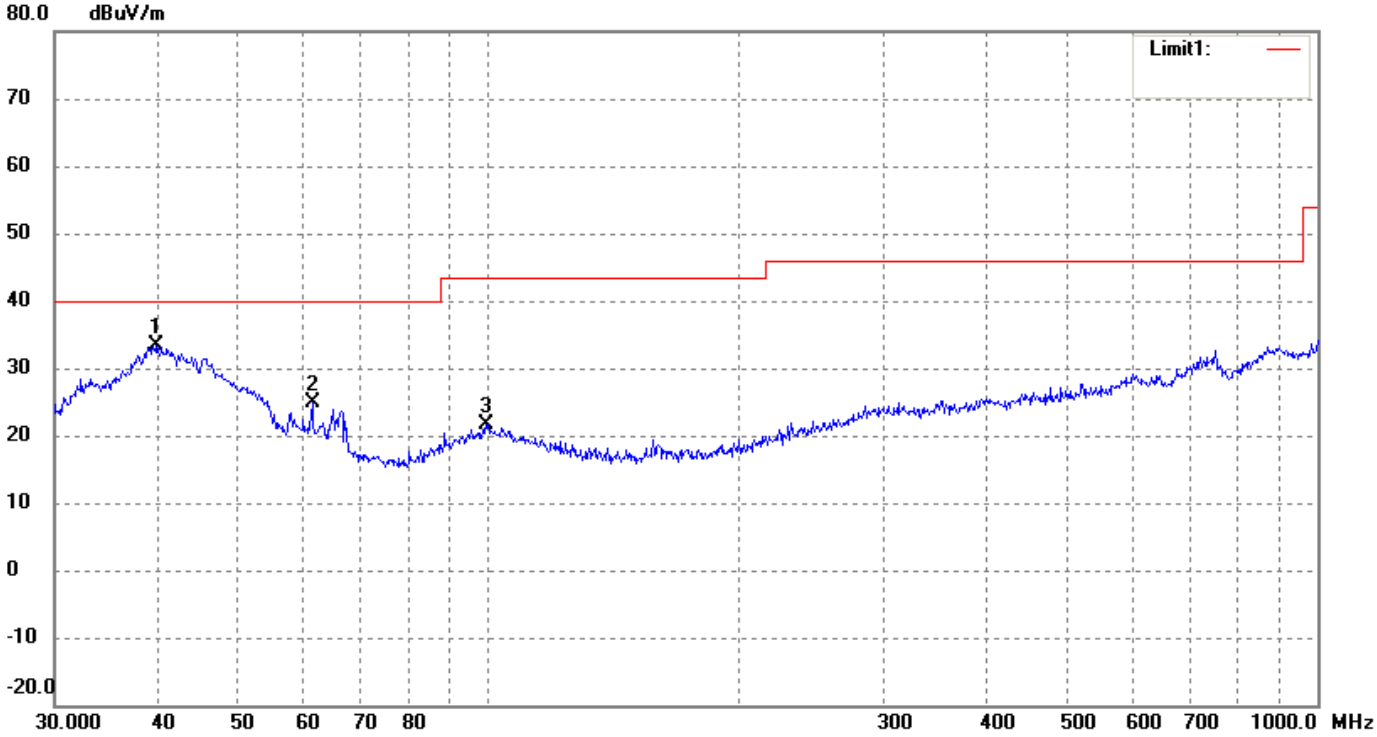
Radiated Emission Test 30MHz – 1000MHz

Product Type : 2.4inch 3G Feature Phone
M/N : i47
Operating Condition : Playing &Charging
Ant. Polarity Vertical
Comment : 30-1000MHz



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Detector
1	39.8542	24.12	9.23	33.35	40.00	-6.65	359	100	QP
2	61.3463	19.95	4.95	24.90	40.00	-15.10	359	100	QP
3	99.5281	15.62	6.01	21.63	43.50	-21.87	359	100	QP

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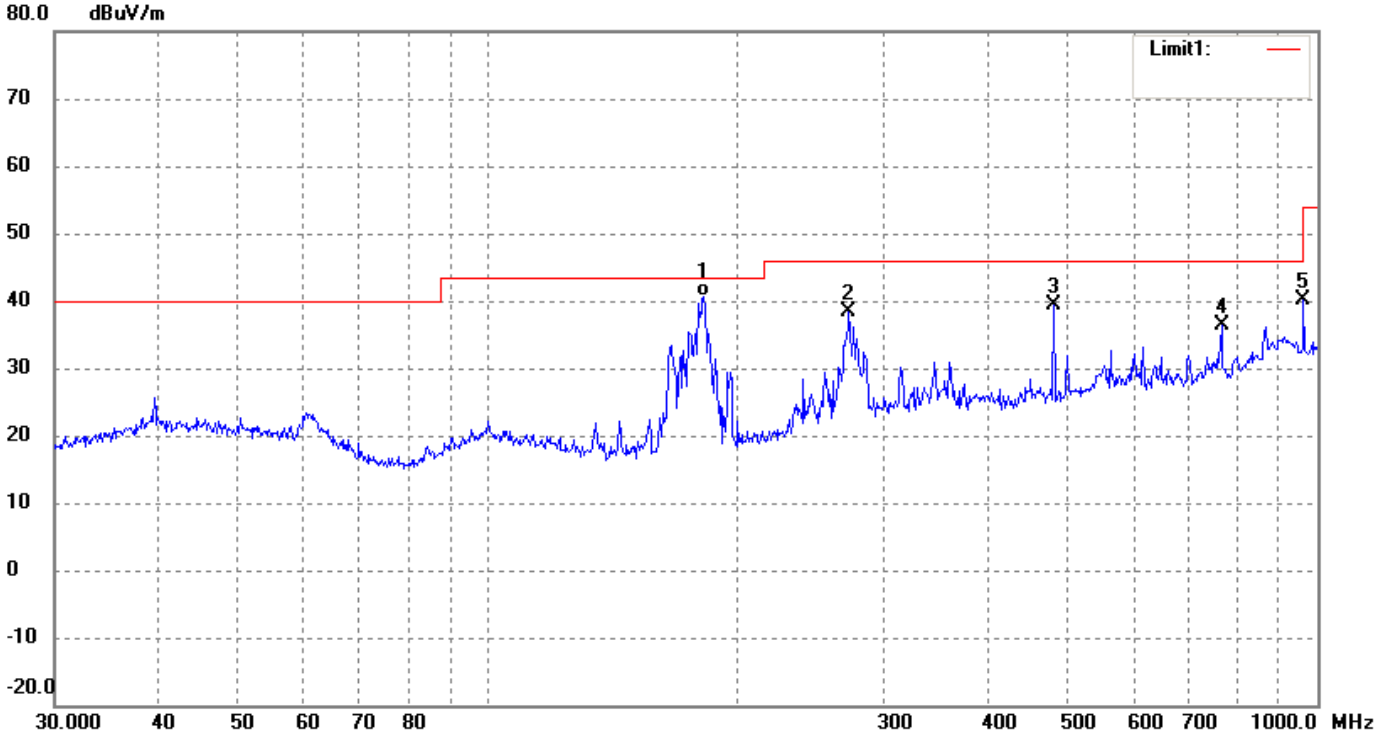
Radiated Emission Test 30MHz – 1000MHz

Product Type : 2.4inch 3G Feature Phone
M/N : I47
Operating Condition : Downloading
Ant. Polarity Horizontal
Comment : 30-1000MHz



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Detector
1	181.9202	37.86	2.84	40.70	43.50	-2.80	359	200	QP
2	272.2776	30.53	7.87	38.40	46.00	-7.60	359	200	QP
3	480.5276	29.34	10.12	39.46	46.00	-6.54	359	200	QP
4	766.0571	22.18	14.30	36.48	46.00	-9.52	359	200	QP
5	962.1622	23.78	16.38	40.16	54.00	-13.84	359	200	QP

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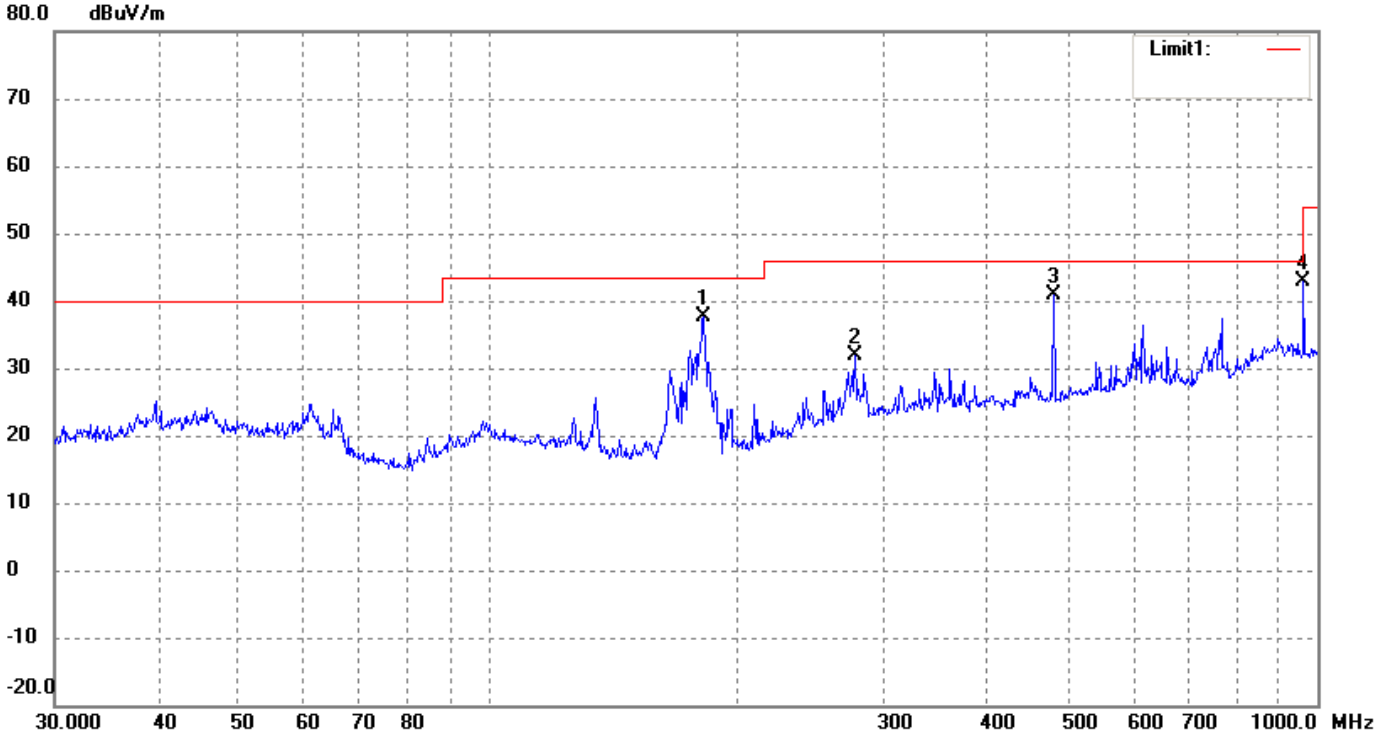
Radiated Emission Test 30MHz – 1000MHz

Product Type : 2.4inch 3G Feature Phone
M/N : I47
Operating Condition : Downloading
Ant. Polarity Vertical
Comment : 30-1000MHz



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Detector
1	181.9202	34.87	2.84	37.71	43.50	-5.79	359	100	QP
2	277.0935	23.75	8.20	31.95	46.00	-14.05	359	100	QP
3	480.5276	30.80	10.12	40.92	46.00	-5.08	359	100	QP
4	962.1623	26.49	16.38	42.87	54.00	-11.13	359	100	QP

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Test Equipment List

Radiated Emission Test

DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	CAL. DUE DATE
Spectrum Analyzer	R&S	FSP	836079/035	2015-05-06
EMI Test Receiver	R&S	ESVB	825471/005	2015-05-06
Pre-amplifier	Agilent	8447F	3113A06717	2015-05-06
Trilog Broadband Antenna	SCHWARZBECK	VULB9163	9163-333	2015-04-19
Loop Antenna	SCHWARZECK	HFRA 5165	9365	2015-04-19

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