



# **FCC Test Report**

## **FCC ID: 2ACDFW800**

**Product :** Mobile phone

**Trade Name :** Superinworld

**Model Number :** W800

**Serial Model :** W900

**Report No. :** NTEK-2015NT08132468F1

**Prepared for**

SUPERDIGITAL TECHNOLOGY CO., LIMITED  
F19,Block B,Nanxian Building,Longhua New District,Shenzhen  
518000,China

**Prepared by**

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## TEST RESULT CERTIFICATION

**Applicant's name** ..... : SUPERDIGITAL TECHNOLOGY CO., LIMITED  
**Address** ..... : F19,Block B,Nanxian Building,Longhua New District,Shenzhen  
 518000,China  
**Manufacturer's Name** ..... : SUPERDIGITAL TECHNOLOGY CO., LIMITED  
**Address** ..... : F19,Block B,Nanxian Building,Longhua New District,Shenzhen  
 518000,China

### Product description

**Product name** ..... : Mobile phone  
**Model and/or type reference** : W800  
 FCC Part15B:01 Oct.2014

**Standards** ..... : ANSI C63.4:2014

This device described above has been tested by NTEK, and the test results show that the equipment under test (EUT) is in compliance with Part 15 of FCC Rules. And it is applicable only to the tested sample identified in the report.

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**Date of Test** .....

**Date (s) of performance of tests** ..... : 13 Aug. 2015 ~06 Sep. 2015

**Date of Issue**..... : 06 Sep. 2015

**Test Result**..... : **Pass**

**Testing Engineer** : Eileen Liu.  
 (Eileen Liu)

**Technical Manager** : Brown Lu  
 (Brown Lu)

**Authorized Signatory** : Sam. Chen  
 (Sam Chen)

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## 1. TEST SUMMARY

Test procedures according to the technical standards:

EMC Emission				
Standard	Test Item	Limit	Judgment	Remark
FCC Part15B:2014 ANSI C63.4: 2014	Conducted Emission	Class B	PASS	
	Radiated Emission	Class B	PASS	

### NOTE:

- (1) 'N/A' denotes test is not applicable in this Test Report
- (2) For client's request and manual description, the test will not be executed.

## 1.1 TEST FACILITY

NTEK Testing Technology Co., Ltd

Add. : 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen P.R. China.

FCC Registration Number:238937; IC Registration Number:9270A-1

CNAS Registration Number:L5516

## 1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement  $y \pm U$ , where expended uncertainty  $U$  is based on a standard uncertainty multiplied by a coverage factor of  $k=2$ , providing a level of confidence of approximately **95** %.

### A. Conducted Measurement :

Test Site	Method	Measurement Frequency Range	U , (dB)	NOTE
NTEKC01	ANSI	150 KHz ~ 30MHz	3.2	

### B. Radiated Measurement :

Test Site	Method	Measurement Frequency Range	U , (dB)	NOTE
NTEKA01	ANSI	30MHz ~ 1000MHz	4.7	
		1GHz ~12.4GHz	5.0	

## 2. GENERAL INFORMATION

### 2.1 GENERAL DESCRIPTION OF EUT

Equipment	Mobile phone	
Trade Name	Superinworld	
Model Name	W800	
Serial Model	W900	
Model Difference	All the model are the same circuit and RF module, except the model name and colour.	
Product Description	The EUT is a Mobile phone.	
	Connecting I/O port:	USB, DC in
	Operation Frequency:	BT:2402~2480 MHz GSM: 824.2-848.8MHz/1850.2-1909.8MHz
	Modulation Type:	BT(1Mbps): GFSK BT EDR(2Mbps): $\pi/4$ -DQPSK BT EDR(3Mbps): 8-DPSK GSM / DCS: GMSK
Power Source	DC Voltage	
Adapter	Input: 100-240V~, 50/60Hz, 0.5A Output: 5.0V ---, 1000mA	
Battery	DC 3.7V,1800mAh	

## 2.1.1 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	Downloading Mode
Mode 2	GSM850/PCS1900 Mode
Mode 3	TF Card Playing Mode+Charging
Mode 4	BT Mode

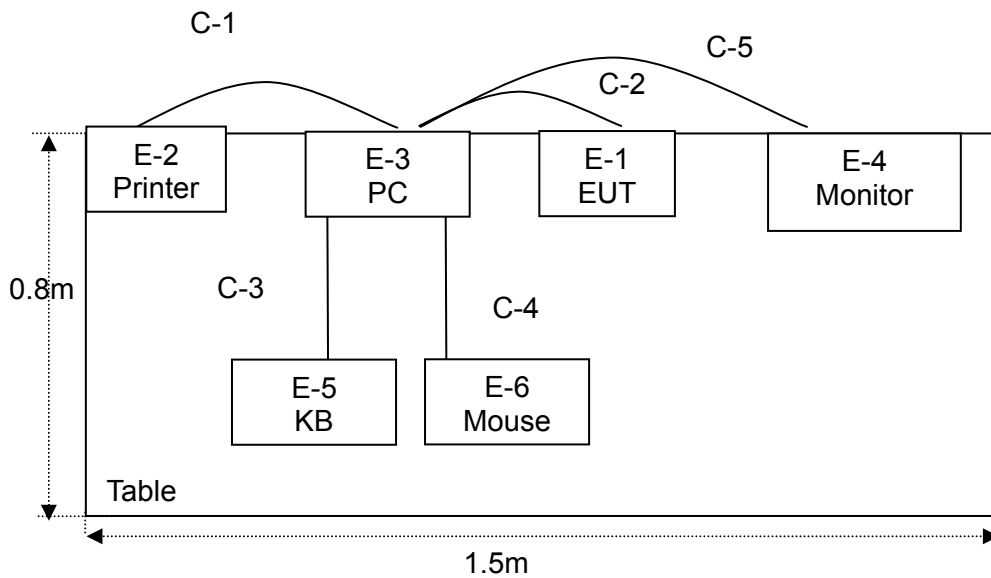
For Conducted Test	
Final Test Mode	Description
Mode 1	Downloading Mode

For Radiated Test	
Final Test Mode	Description
Mode 1	Downloading Mode

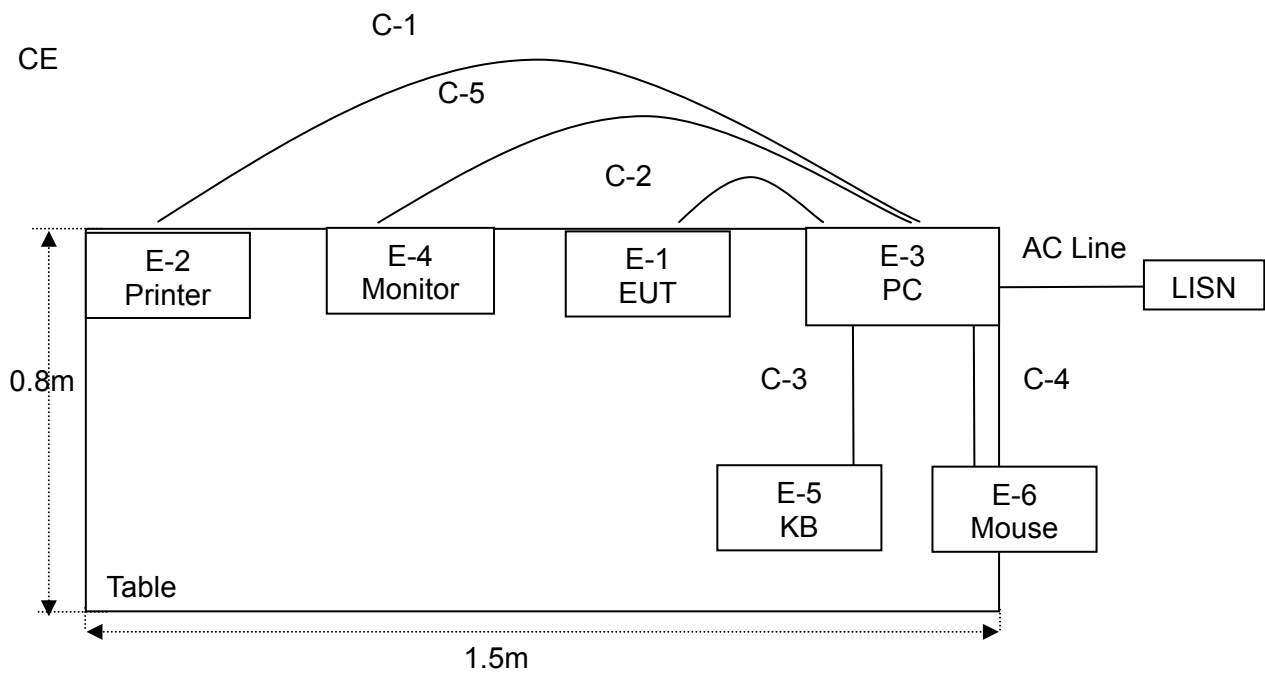
Note: Final Test Mode: Through Pre-scan, find the mode 1 is the worse case.  
Only the worst case mode is recorded in the report.

## 2.2 DESCRIPTION OF TEST SETUP

RE



CE





### 2.3 DESCRIPTION TEST PERIPHERAL AND EUT PERIPHERAL

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Brand	Model/Type No.	Series No.	Note
E-1	Mobile phone	Superinworld	W800	N/A	EUT
E-2	Printer	Canon	L11121E	LBP2900	
E-3	Personal computer	DELL	FT4Y23X	34413561645	
E-4	Monitor	DELL	IN2020MB	cn-0y6mhx-74261-11f-67es	
E-5	Keyboard	DELL	SK-8185	OY526KUS	
E-6	Mouse	DELL	MS111-P	cn-011d3v-71581-11e-1th7	

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	1.2m	
C-2	NO	NO	1.0m	
C-3	NO	NO	1.0m	
C-4	NO	NO	1.0m	
C-5	NO	NO	1.0m	

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.
- (3) “YES” means “shielded” “with core”; “NO” means “unshielded” “without core”.

## 2.4 MEASUREMENT INSTRUMENTS LIST

### Radiation Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Spectrum Analyzer	Agilent	E4407B	MY45108040	2015.07.06	2016.07.05	1 year
2	Test Receiver	R&S	ESPI	101318	2015.06.07	2016.06.06	1 year
3	Bilog Antenna	TESEQ	CBL6111D	31216	2015.07.06	2016.07.05	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	6200264416	2015.06.07	2016.06.06	1 year
5	Spectrum Analyzer	ADVANTEST	R3132	150900201	2015.06.07	2016.06.06	1 year
6	Horn Antenna	EM	EM-AH-10180	2011071402	2015.07.06	2016.07.05	1 year
7	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2015.07.06	2016.07.05	1 year
8	Amplifier	EM	EM-30180	060538	2014.12.22	2015.12.21	1 year
9	Loop Antenna	ARA	PLA-1030/B	1029	2015.06.08	2016.06.07	1 year
10	Power Meter	R&S	NRVS	100696	2015.07.06	2016.07.05	1 year
11	Power Sensor	R&S	URV5-Z4	0395.1619.05	2015.07.06	2016.07.05	1 year
12	Test Cable	N/A	R-01	N/A	2015.07.06	2016.07.05	1 year
13	Test Cable	N/A	R-02	N/A	2015.07.06	2016.07.05	1 year

### Conduction Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Test Receiver	R&S	ESCI	101160	2015.06.06	2016.06.05	1 year
2	LISN	R&S	ENV216	101313	2015.08.24	2016.08.23	1 year
3	LISN	EMCO	3816/2	00042990	2015.08.24	2016.08.23	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	6200264417	2015.06.07	2016.06.06	1 year
5	Passive Voltage Probe	R&S	ESH2-Z3	100196	2015.06.07	2016.06.06	1 year
6	Absorbing clamp	R&S	MOS-21	100423	2015.06.08	2016.06.07	1 year
7	Test Cable	N/A	C01	N/A	2015.06.08	2016.06.07	1 year
8	Test Cable	N/A	C02	N/A	2015.06.08	2016.06.07	1 year
9	Test Cable	N/A	C03	N/A	2015.06.08	2016.06.07	1 year
2	LISN	R&S	ENV216	101313	2014.08.24	2015.08.23	1 year
3	LISN	EMCO	3816/2	00042990	2014.08.24	2015.08.23	1 year

### 3. EMC EMISSION TEST

#### 3.1 CONDUCTED EMISSION MEASUREMENT

##### 3.1.1 POWER LINE CONDUCTED EMISSION (Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *
0.50 -5.0	73.00	60.00	56.00	46.00
5.0 -30.0	73.00	60.00	60.00	50.00

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " \* " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

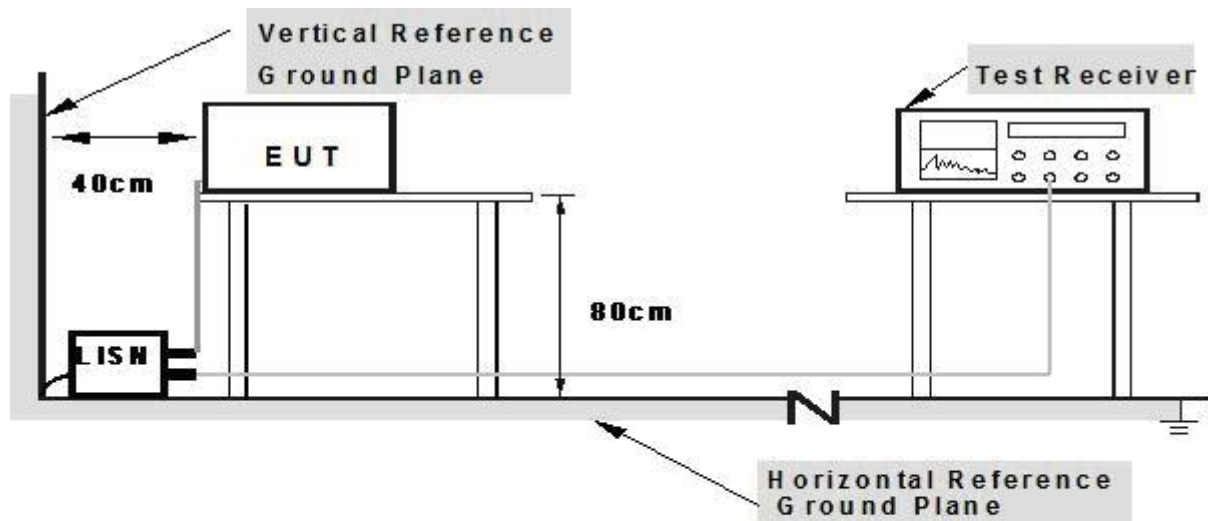
The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

### 3.1.2 TEST PROCEDURE

- The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- LISN at least 80 cm from nearest part of EUT chassis.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

### 3.1.3 TEST SETUP



**Note: 1. Support units were connected to second LISN.**

**2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes**

### 3.1.4 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

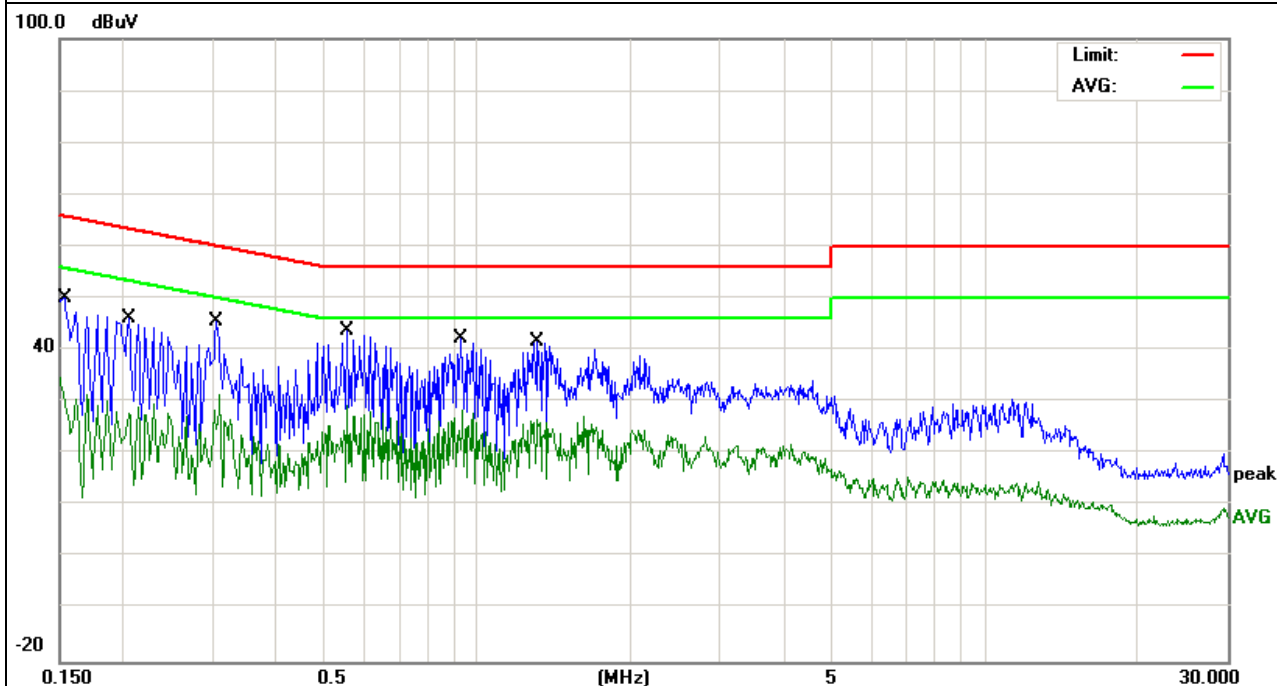
### 3.1.5 TEST RESULTS

EUT :	Mobile phone	Model Name. :	W800
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Test Date :	2015-08-26
Test Mode :	Mode 1	Phase :	L
Test Voltage :	DC 5V From PC AC 120V/60Hz		

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.1539	40.60	9.49	50.09	65.78	-15.69	QP
0.1539	25.24	9.49	34.73	55.78	-21.05	AVG
0.2059	36.76	9.46	46.22	63.37	-17.15	QP
0.2059	19.57	9.46	29.03	53.37	-24.34	AVG
0.3060	36.11	9.54	45.65	60.08	-14.43	QP
0.3060	21.89	9.54	31.43	50.08	-18.65	AVG
0.5540	34.11	9.56	43.67	56.00	-12.33	QP
0.5540	19.89	9.56	29.45	46.00	-16.55	AVG
0.9260	32.69	9.56	42.25	56.00	-13.75	QP
0.9260	19.03	9.56	28.59	46.00	-17.41	AVG
1.3140	32.03	9.57	41.60	56.00	-14.40	QP
1.3140	16.94	9.57	26.51	46.00	-19.49	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

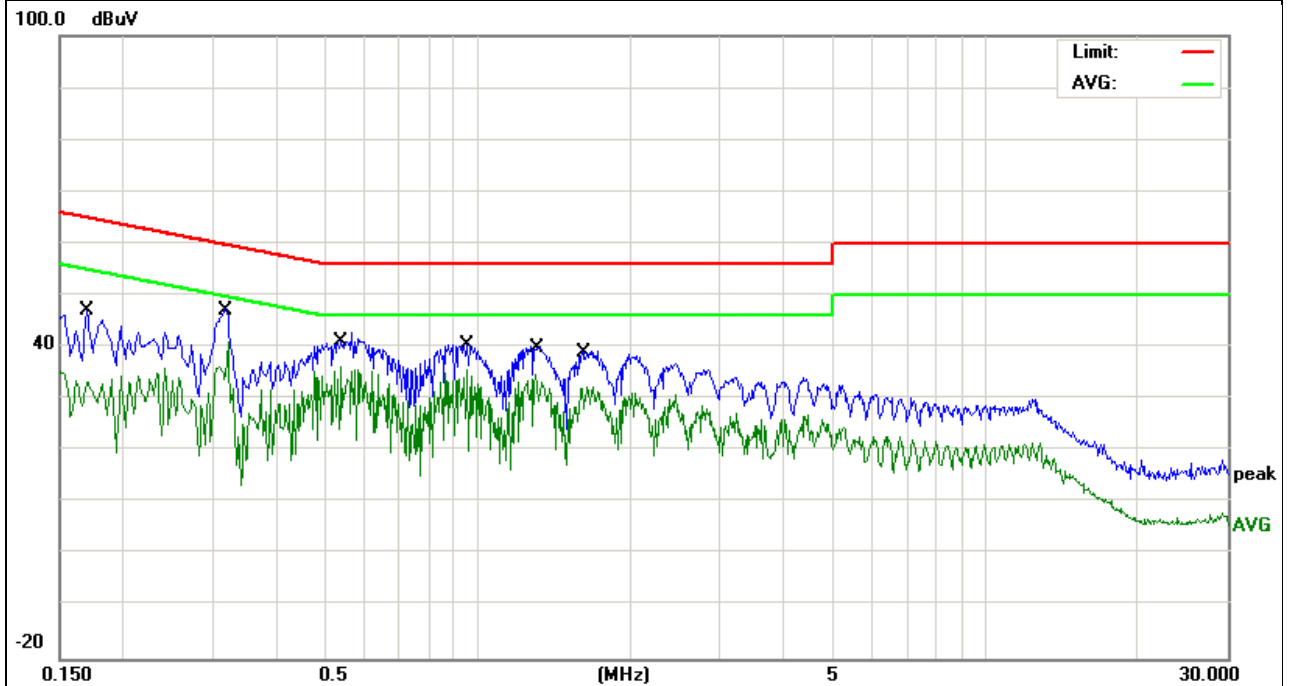


EUT :	Mobile phone	Model Name. :	W800
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Test Date :	2015-08-26
Test Mode :	Mode 1	Phase :	N
Test Voltage :	DC 5V From PC AC 120V/60Hz		

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.1700	37.68	9.47	47.15	64.96	-17.81	QP
0.1700	25.50	9.47	34.97	54.96	-19.99	AVG
0.3220	38.03	9.48	47.51	59.65	-12.14	QP
0.3220	31.51	9.48	40.99	49.65	-8.66	AVG
0.5380	33.43	9.55	42.98	56.00	-13.02	QP
0.5380	26.65	9.55	36.20	46.00	-9.80	AVG
0.9580	30.92	9.56	40.48	56.00	-15.52	QP
0.9580	25.95	9.56	35.51	46.00	-10.49	AVG
1.2980	30.68	9.57	40.25	56.00	-15.75	QP
1.2980	25.05	9.57	34.62	46.00	-11.38	AVG
1.6380	29.71	9.56	39.27	56.00	-16.73	QP
1.6380	22.89	9.56	32.45	46.00	-13.55	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

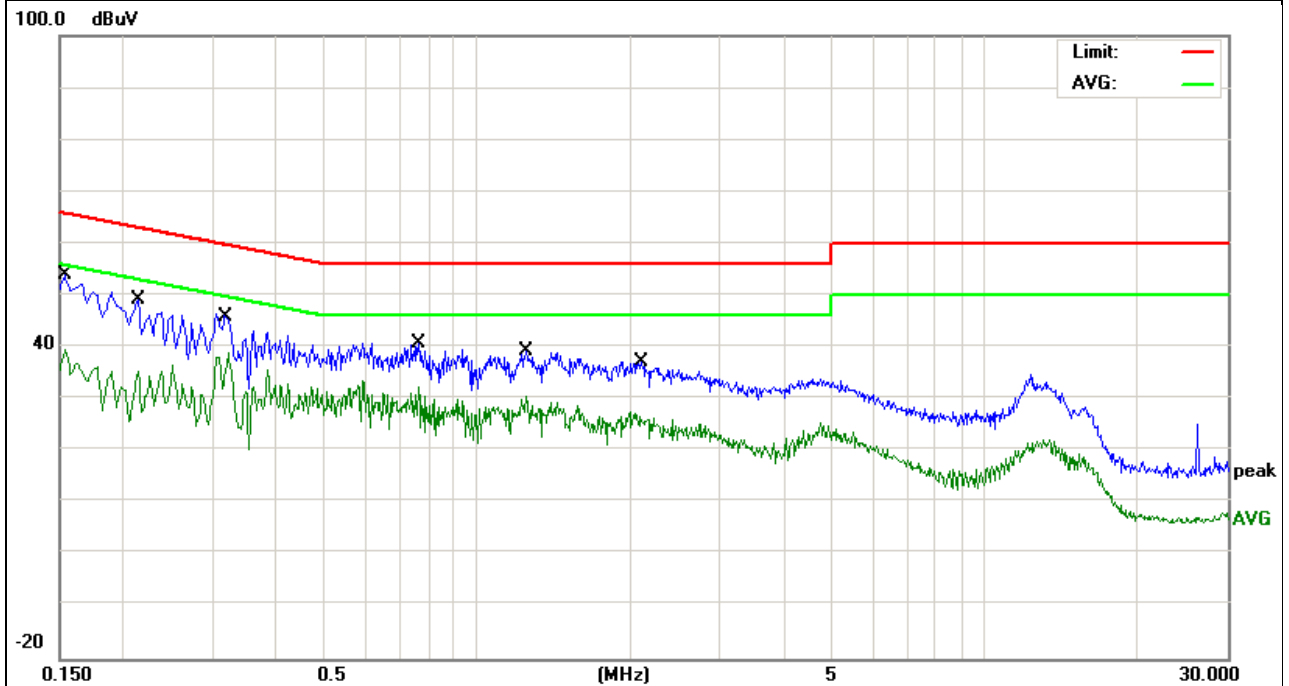


EUT :	Mobile phone	Model Name. :	W800
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Test Date :	2015-08-26
Test Mode :	Mode 1	Phase :	L
Test Voltage :	DC 5V From PC AC 240V/60Hz		

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.1539	44.42	9.49	53.91	65.78	-11.87	QP
0.1539	30.21	9.49	39.70	55.78	-16.08	AVG
0.2140	39.58	9.47	49.05	63.04	-13.99	QP
0.2140	26.02	9.47	35.49	53.04	-17.55	AVG
0.3220	36.85	9.48	46.33	59.65	-13.32	QP
0.3220	29.56	9.48	39.04	49.65	-10.61	AVG
0.7660	31.18	9.57	40.75	56.00	-15.25	QP
0.7660	22.88	9.57	32.45	46.00	-13.55	AVG
1.2459	29.55	9.56	39.11	56.00	-16.89	QP
1.2459	21.10	9.56	30.66	46.00	-15.34	AVG
2.1018	27.46	9.57	37.03	56.00	-18.97	QP
2.1018	18.04	9.57	27.61	46.00	-18.39	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

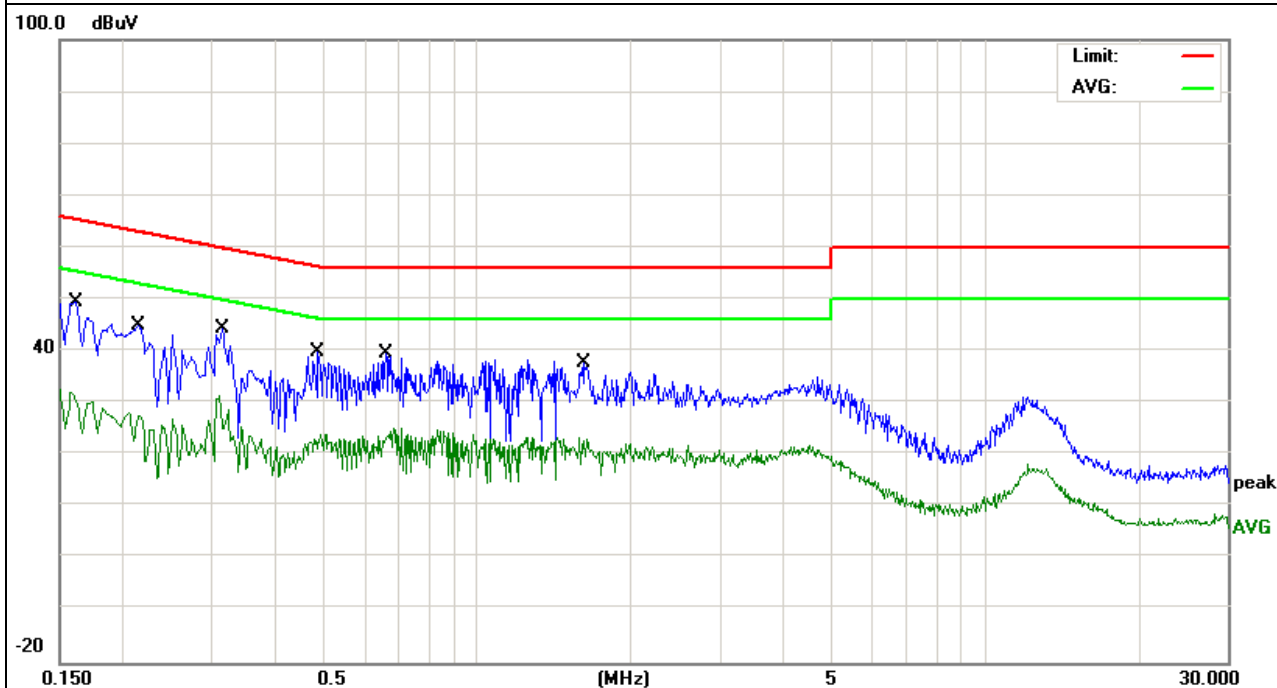


EUT :	Mobile phone	Model Name. :	W800
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Test Date :	2015-08-26
Test Mode :	Mode 1	Phase :	N
Test Voltage :	DC 5V From PC AC 240V/60Hz		

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.1620	40.02	9.48	49.50	65.36	-15.86	QP
0.1620	23.18	9.48	32.66	55.36	-22.70	AVG
0.2140	35.40	9.47	44.87	63.04	-18.17	QP
0.2140	18.54	9.47	28.01	53.04	-25.03	AVG
0.3140	34.94	9.51	44.45	59.86	-15.41	QP
0.3140	22.08	9.51	31.59	49.86	-18.27	AVG
0.4860	30.21	9.50	39.71	56.24	-16.53	QP
0.4860	14.42	9.50	23.92	46.24	-22.32	AVG
0.6580	30.05	9.57	39.62	56.00	-16.38	QP
0.6580	15.55	9.57	25.12	46.00	-20.88	AVG
1.6260	28.07	9.56	37.63	56.00	-18.37	QP
1.6260	13.90	9.56	23.46	46.00	-22.54	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.



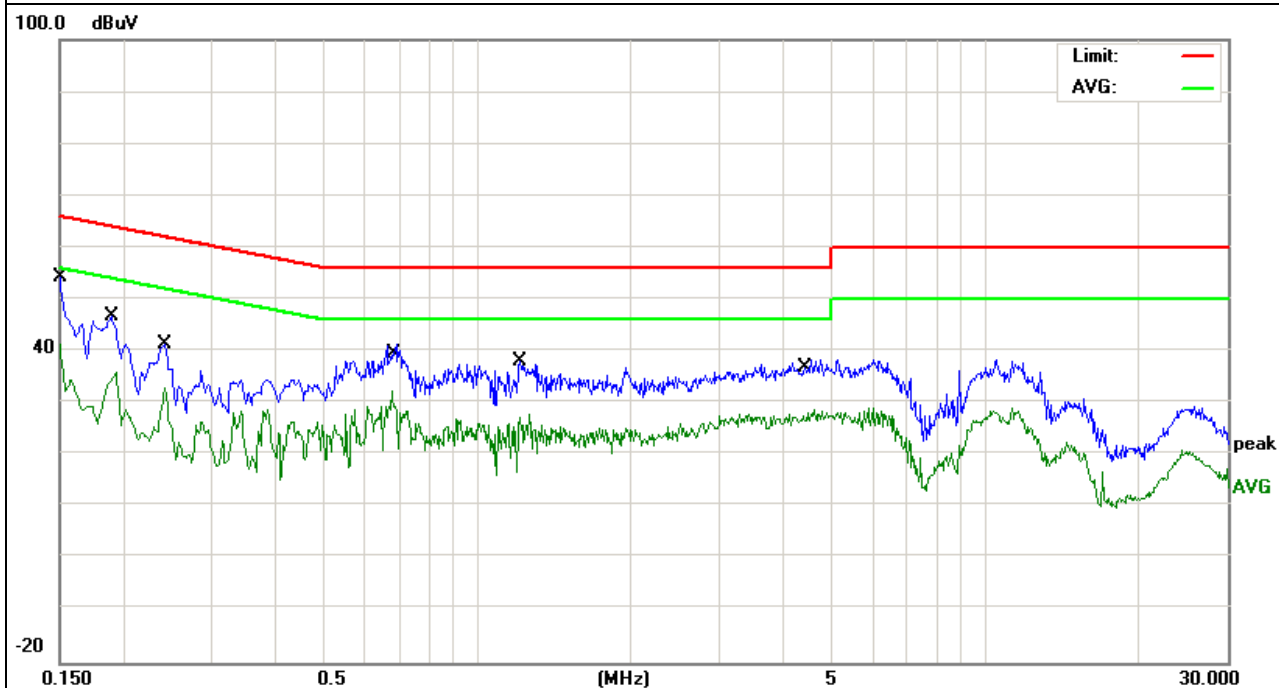


EUT :	Mobile phone	Model Name. :	W800
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Test Date :	2015-08-26
Test Mode :	Mode 1	Phase :	L
Test Voltage :	DC 5V From Adapter AC 120V/60Hz		

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.1500	44.64	9.49	54.13	65.99	-11.86	QP
0.1500	31.90	9.49	41.39	55.99	-14.60	AVG
0.1900	37.33	9.46	46.79	64.03	-17.24	QP
0.1900	26.62	9.46	36.08	54.03	-17.95	AVG
0.2419	31.85	9.50	41.35	62.03	-20.68	QP
0.2419	23.36	9.50	32.86	52.03	-19.17	AVG
0.6780	31.71	9.57	41.28	56.00	-14.72	QP
0.6780	22.73	9.57	32.30	46.00	-13.70	AVG
1.2139	28.58	9.56	38.14	56.00	-17.86	QP
1.2139	18.21	9.56	27.77	46.00	-18.23	AVG
4.4698	28.10	9.67	37.77	56.00	-18.23	QP
4.4698	18.42	9.67	28.09	46.00	-17.91	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

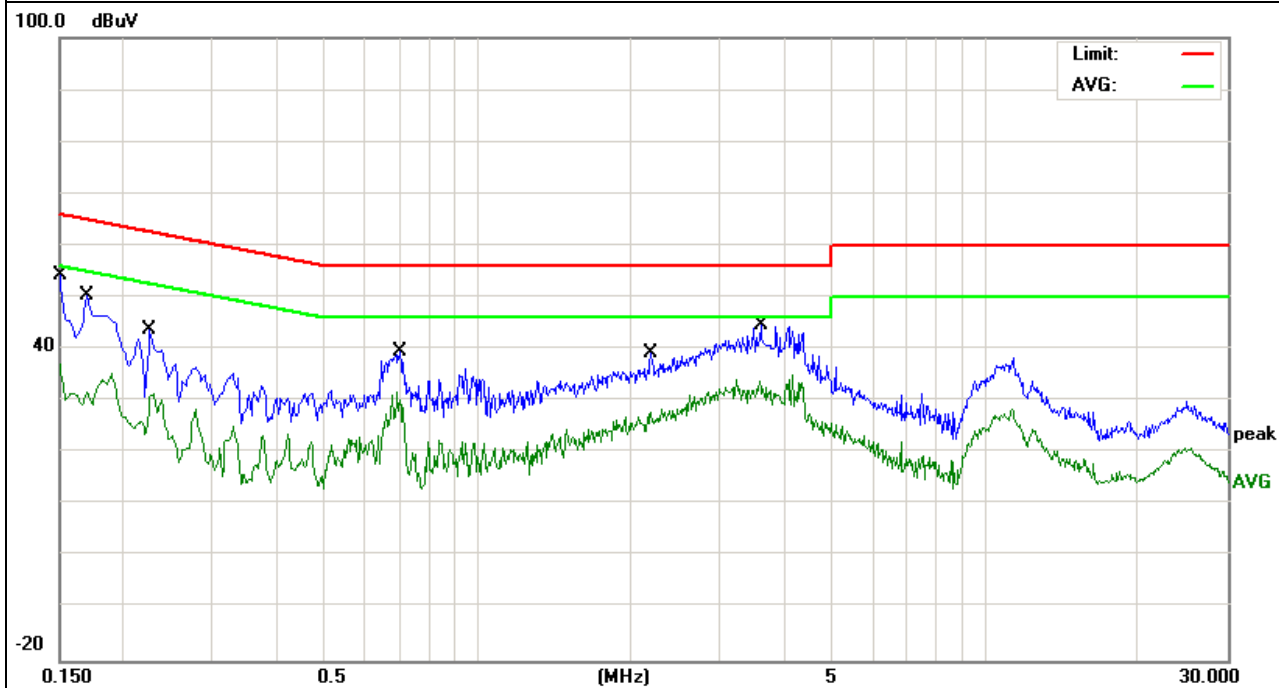


EUT :	Mobile phone	Model Name. :	W800
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Test Date :	2015-08-26
Test Mode :	Mode 1	Phase :	N
Test Voltage :	DC 5V From Adapter AC 120V/60Hz		

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.1500	44.82	9.49	54.31	65.99	-11.68	QP
0.1500	27.55	9.49	37.04	55.99	-18.95	AVG
0.1700	40.85	9.47	50.32	64.96	-14.64	QP
0.1700	25.75	9.47	35.22	54.96	-19.74	AVG
0.2260	34.15	9.48	43.63	62.59	-18.96	QP
0.2260	21.90	9.48	31.38	52.59	-21.21	AVG
0.7019	30.08	9.57	39.65	56.00	-16.35	QP
0.7019	22.23	9.57	31.80	46.00	-14.20	AVG
2.1899	29.55	9.58	39.13	56.00	-16.87	QP
2.1899	18.92	9.58	28.50	46.00	-17.50	AVG
3.6059	35.13	9.64	44.77	56.00	-11.23	QP
3.6059	24.08	9.64	33.72	46.00	-12.28	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

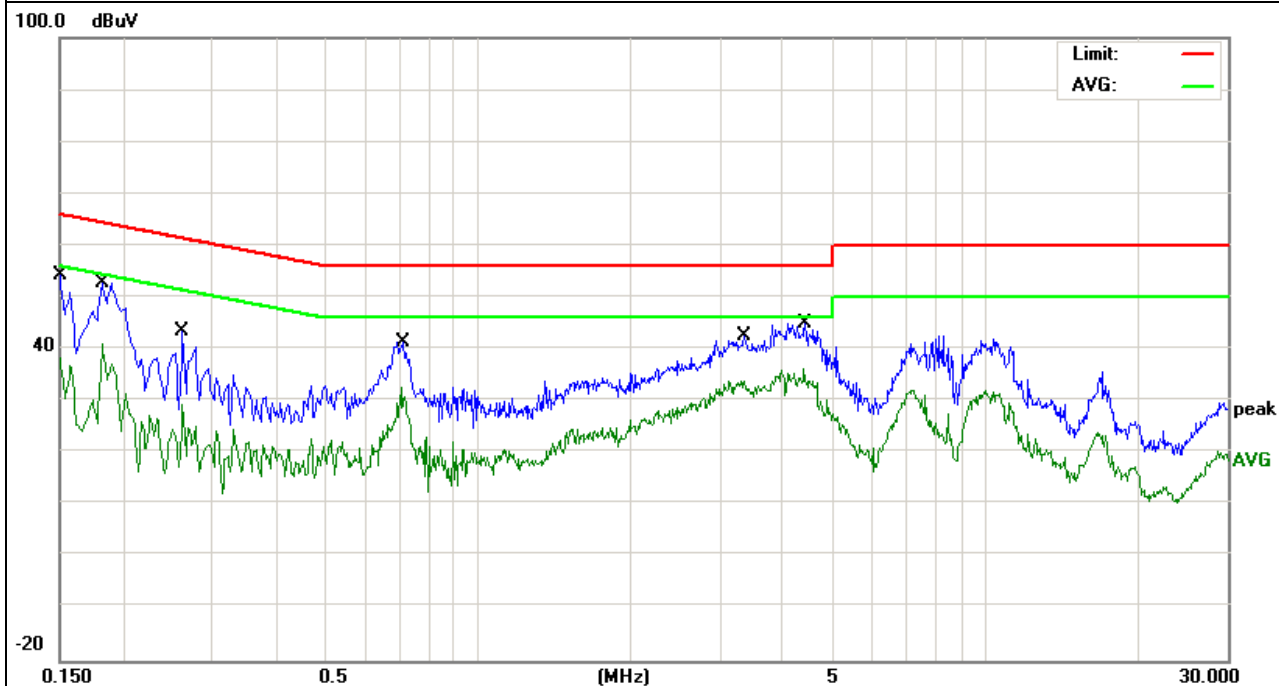


EUT :	Mobile phone	Model Name. :	W800
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Test Date :	2015-08-26
Test Mode :	Mode 1	Phase :	L
Test Voltage :	DC 5V From Adapter AC 240V /60Hz		

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.1500	44.91	9.49	54.40	65.99	-11.59	QP
0.1500	28.93	9.49	38.42	55.99	-17.57	AVG
0.1819	43.37	9.46	52.83	64.39	-11.56	QP
0.1819	31.50	9.46	40.96	54.39	-13.43	AVG
0.2620	33.81	9.52	43.33	61.36	-18.03	QP
0.2620	19.97	9.52	29.49	51.36	-21.87	AVG
0.7100	31.82	9.57	41.39	56.00	-14.61	QP
0.7100	23.02	9.57	32.59	46.00	-13.41	AVG
3.3500	32.79	9.64	42.43	56.00	-13.57	QP
3.3500	24.29	9.64	33.93	46.00	-12.07	AVG
4.4058	35.42	9.67	45.09	56.00	-10.91	QP
4.4058	26.60	9.67	36.27	46.00	-9.73	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

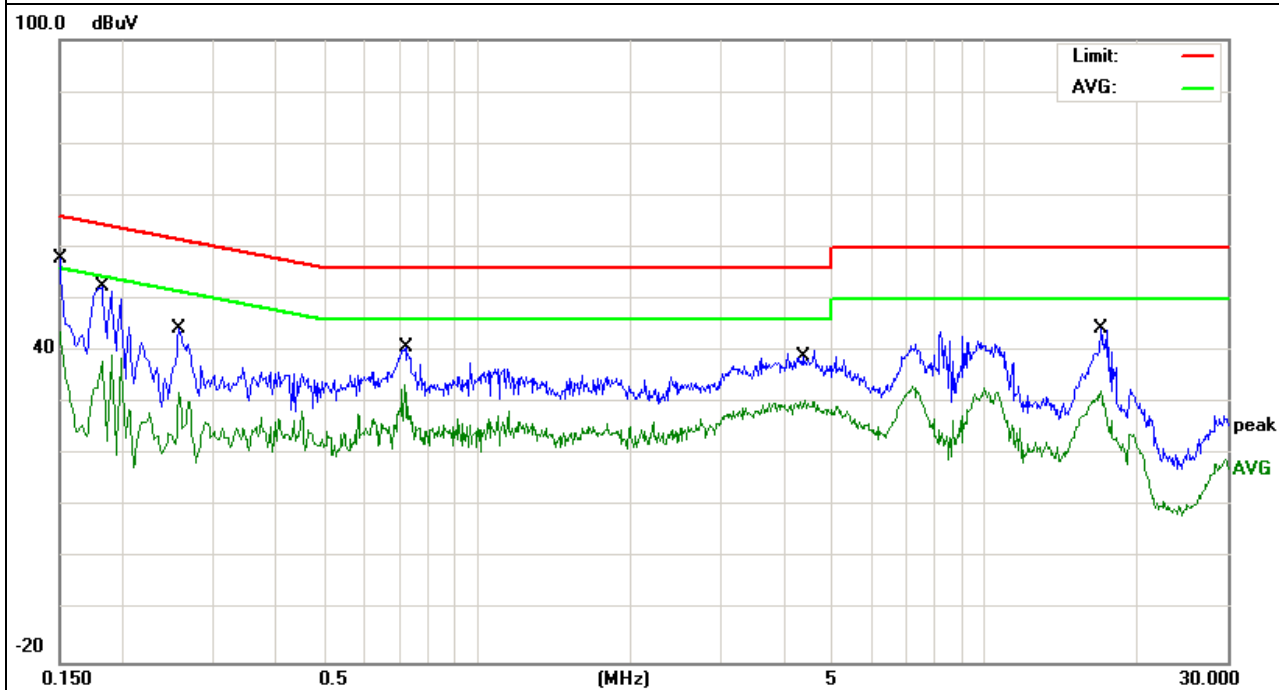


EUT :	Mobile phone	Model Name. :	W800
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Test Date :	2015-08-26
Test Mode :	Mode 1	Phase :	N
Test Voltage :	DC 5V From Adapter AC 240V/60Hz		

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.1500	48.27	9.46	57.73	65.99	-8.26	QP
0.1500	34.18	9.46	43.64	55.99	-12.35	AVG
0.1819	42.95	9.46	52.41	64.39	-11.98	QP
0.1819	29.70	9.46	39.16	54.39	-15.23	AVG
0.2580	34.82	9.45	44.27	61.49	-17.22	QP
0.2580	22.72	9.45	32.17	51.49	-19.32	AVG
0.7179	31.34	9.43	40.77	56.00	-15.23	QP
0.7179	24.19	9.43	33.62	46.00	-12.38	AVG
4.4218	30.57	9.48	40.05	56.00	-15.95	QP
4.4218	21.16	9.48	30.64	46.00	-15.36	AVG
16.9219	34.46	9.81	44.27	60.00	-15.73	QP
16.9219	22.60	9.81	32.41	50.00	-17.59	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.



## 3.2 RADIATED EMISSION MEASUREMENT

### 3.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

FREQUENCY (MHz)	Class A (at 10m)	Class B (at 3m)
	dBuV/m	dBuV/m
30 ~ 88	39.0	40.0
88 ~ 216	43.5	43.5
216 ~ 960	46.5	46.0
Above 960	49.5	54.0

Notes:

- (1) The limit for radiated test was performed according to as following:  
FCC PART 15B /ICES-003.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

### 3.2.2 TEST PROCEDURE

#### Test Arrangement for Radiated Emissions up to 1 GHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at an accredited test facility. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

Note: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for quasi-peak detection (QP) at frequency below 1GHz.

#### Test Arrangement for Radiated Emissions above 1 GHz.

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at an accredited chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna can be varied from one meter to four meters, the height of adjustment depends on the EUT height and the antenna 3dB beamwidth both, to detect the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

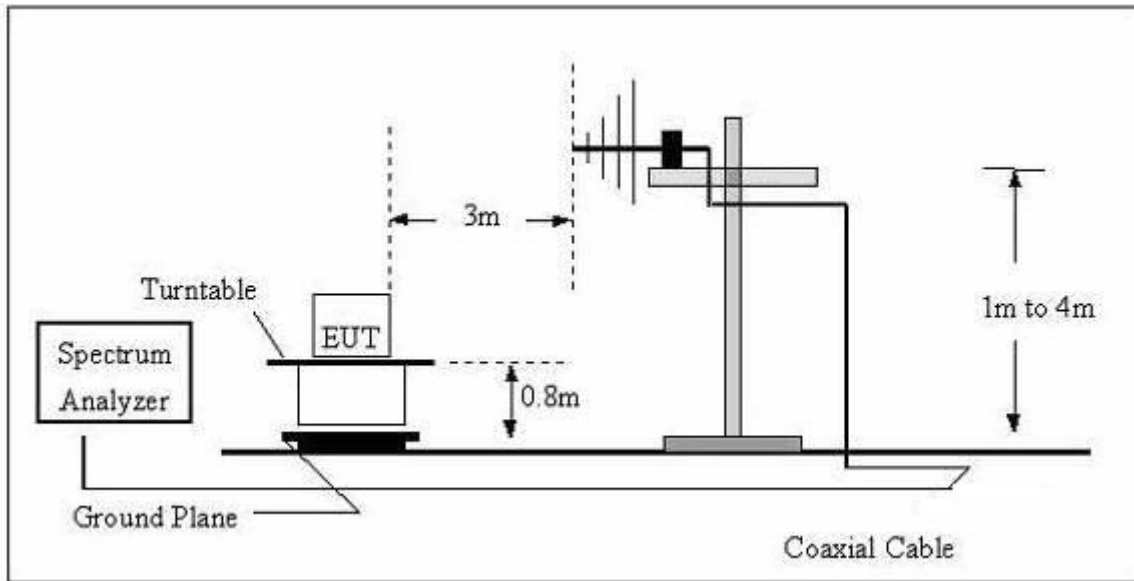
Note: For the hand-held device, the EUT should be measured for all 3 axes and only the worst case is recorded in the report

During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

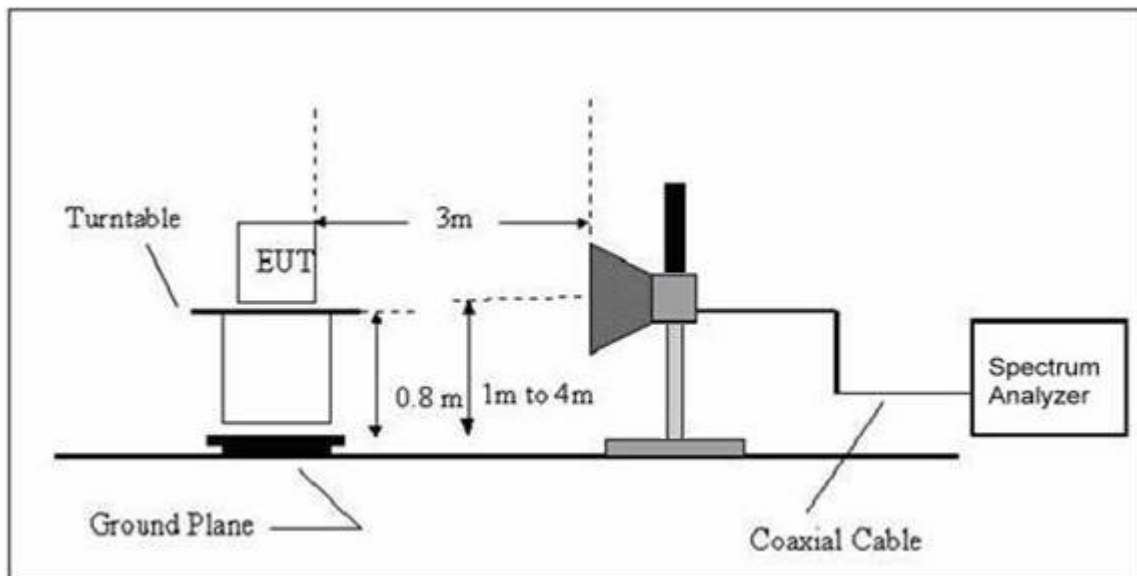
Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	QP	120 kHz	300 kHz
Above 1000	Peak	1 MHz	1 MHz
	Peak	1 MHz	10 Hz

### 3.2.3 TEST SETUP

For Radiated Emission 30~1000MHz



(B) Radiated Emission Test Set-Up Frequency Above 1GHz



### 3.2.4 TEST RESULTS

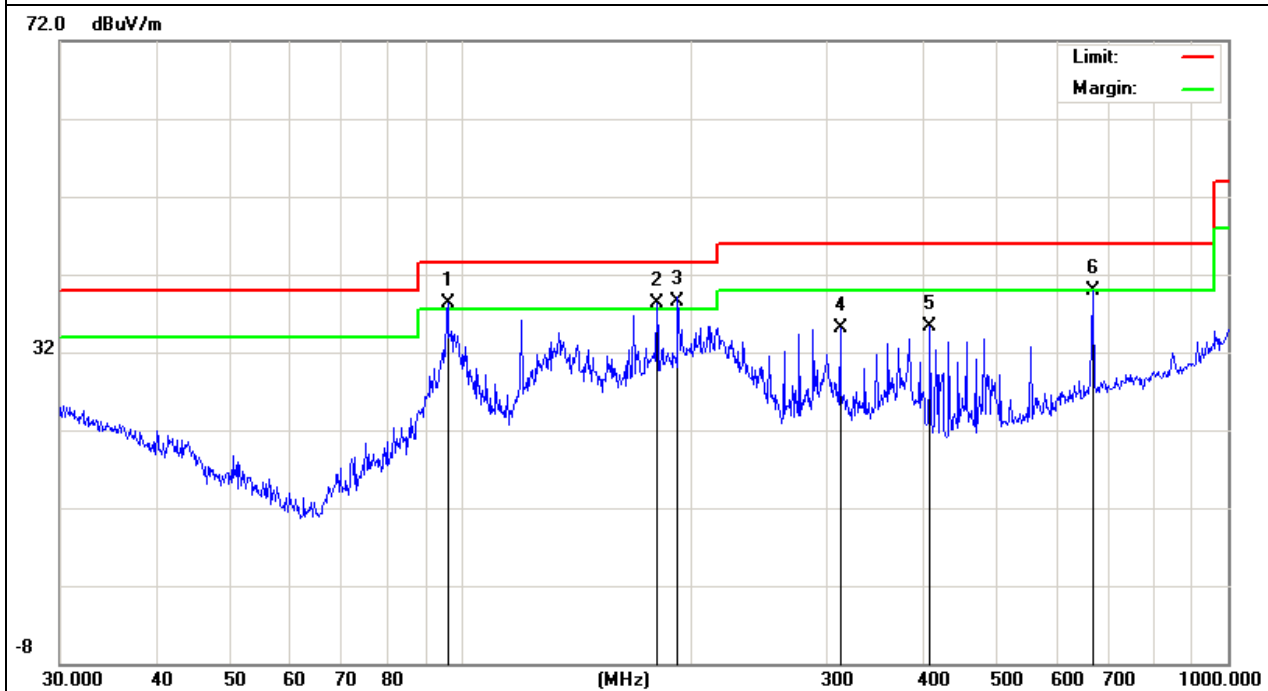
#### TEST RESULTS (30~1000 MHz)

EUT :	Mobile phone	Model Name :	W800
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2015-08-26
Test Mode :	Mode 1	Polarization :	Horizontal
Test Power :	DC 5V From PC AC 120V/60Hz		

Freq. (MHz)	Reading (dBuV)	Factor (dBuV)	Measurement (dBuV)	Limit (dBuV)	Over (dB)	Remark
96.0986	28.24	10.16	38.40	43.50	-5.10	QP
180.0165	26.34	11.91	38.25	43.50	-5.25	QP
191.745	27.16	11.34	38.50	43.50	-5.00	QP
312.1792	21.96	13.05	35.01	46.00	-10.99	QP
408.946	20.61	14.72	35.33	46.00	-10.67	QP
665.8034	19.07	20.77	39.84	46.00	-6.16	QP

Remark:

Factor = Antenna Factor + Cable Loss - Amplifier.

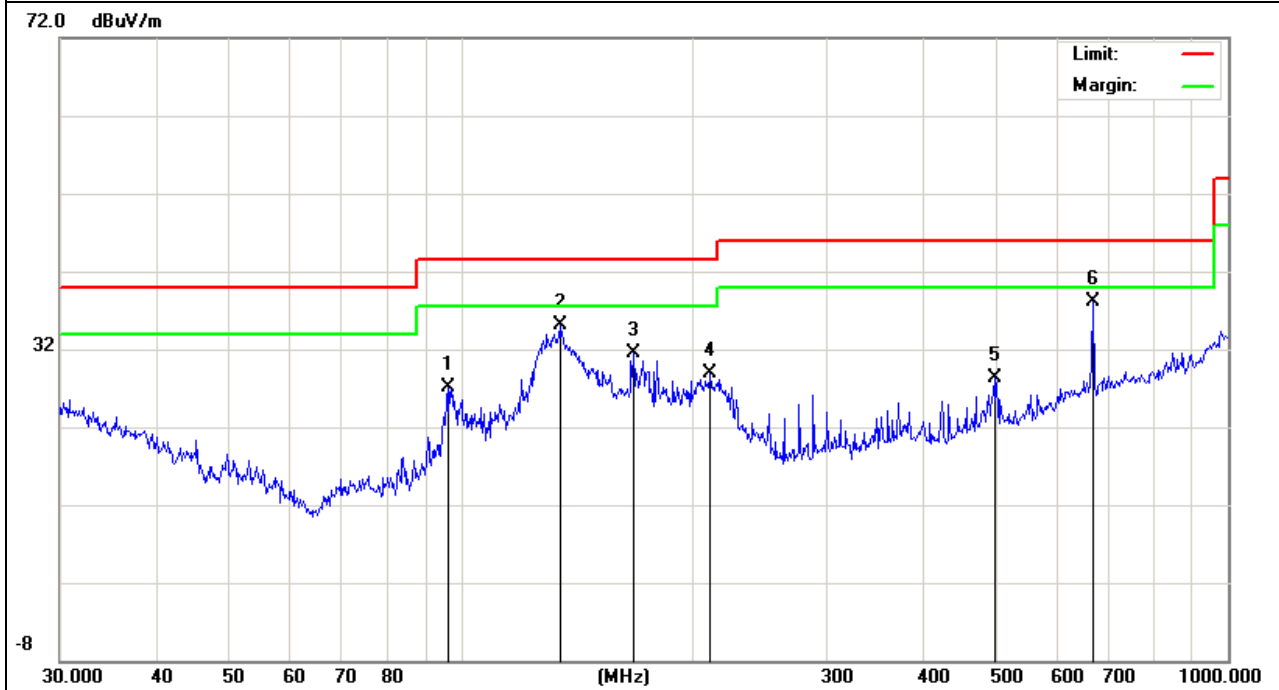


EUT :	Mobile phone	Model Name :	W800
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2015-08-26
Test Mode :	Mode 1	Polarization :	Vertical
Test Power :	DC 5V From PC AC 120V/60Hz		

Freq. (MHz)	Reading (dBuV)	Factor (dBuV)	Measurement (dBuV)	Limit (dBuV)	Over (dB)	Remark
96.0986	16.95	10.16	27.11	43.50	-16.39	QP
134.5592	24.06	10.97	35.03	43.50	-8.47	QP
167.8243	19.21	12.20	31.41	43.50	-12.09	QP
211.5263	17.81	11.03	28.84	43.50	-14.66	QP
495.9343	10.85	17.36	28.21	46.00	-17.79	QP
665.8035	17.29	20.77	38.06	46.00	-7.94	QP

Remark:

Factor = Antenna Factor + Cable Loss - Amplifier.





### 3.2.5 TEST RESULTS(1000~12400MHz)

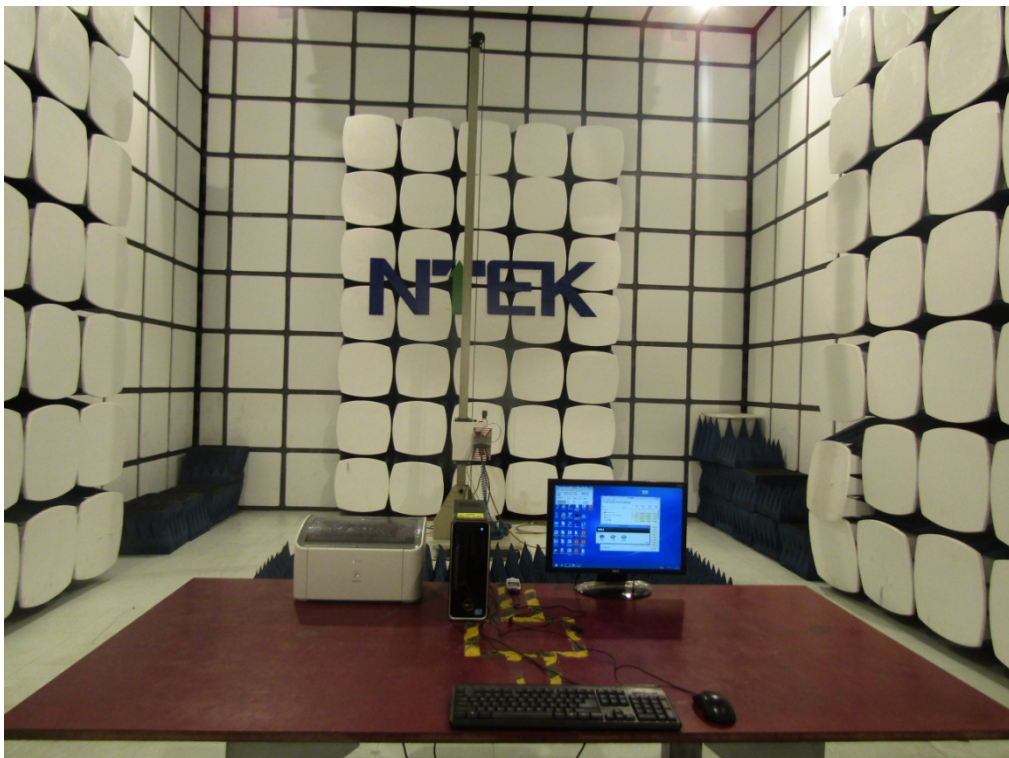
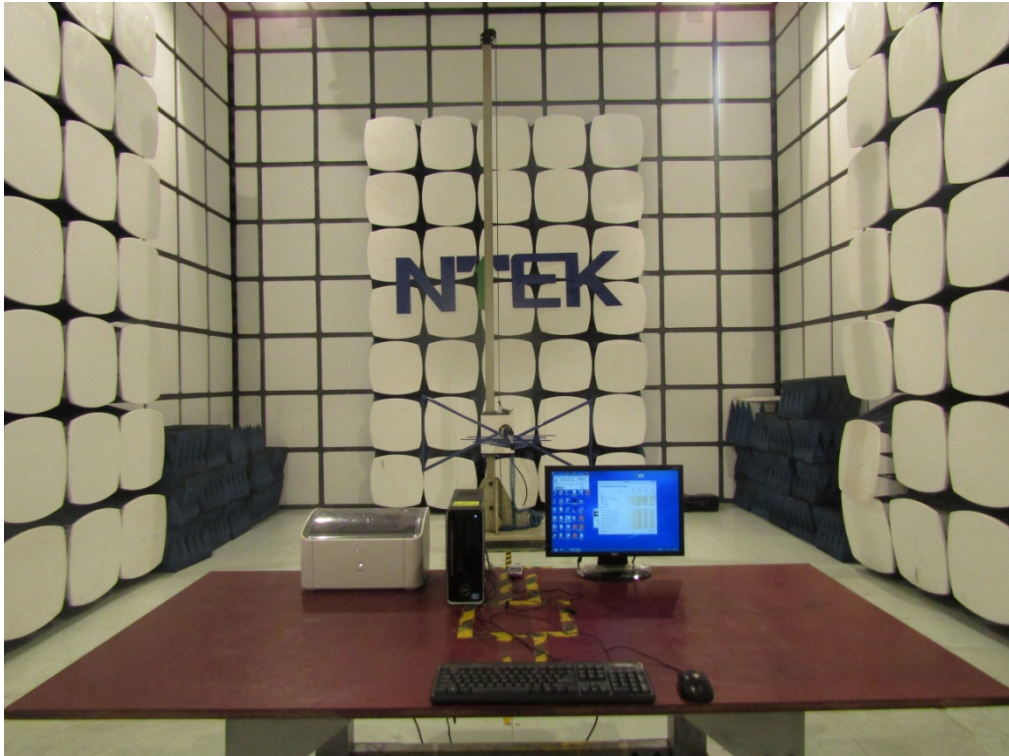
Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
V	1231.021	58.92	-10.97	47.95	74.00	-26.05	peak
V	1684.388	56.77	-10.32	46.45	74.00	-27.55	peak
V	2018.530	54.23	-8.11	46.12	74.00	-27.88	peak
V	2664.702	53.64	-6.71	46.93	74.00	-27.07	peak
V	2806.824	57.49	-6.26	51.23	74.00	-22.77	peak
V	4804.636	46.13	1.78	47.91	74.00	-26.09	peak
H	1403.042	55.04	-10.76	44.28	74.00	-29.72	peak
H	1748.973	55.37	-10.04	45.33	74.00	-28.67	peak
H	1996.946	56.30	-8.53	47.77	74.00	-26.23	peak
H	2203.762	53.87	-7.53	46.34	74.00	-27.66	peak
H	3009.976	53.43	-6.17	47.26	74.00	-26.74	peak
H	3966.416	49.39	-1.51	47.88	74.00	-26.12	peak

**Remark:**

Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit

#### 4. EUT TEST PHOTO

**Radiated Measurement Photos**



### Conducted Measurement Photos

