FCC Part 15B TEST REPORT

Report No: STS1704167E01

Issued for

DaFaith Trading, LLC

12934 Hideaway Lane, San Diego, CA 92131, USA

Product Name:	mobile phone
Brand Name:	NEOIX
Model Name:	V7
Series Model:	F241BL,F241RD,F241BK,F241WT, 8S247
FCC ID:	2ALWUV7
Test Standard:	FCC Part 15B

TEST RESULT CERTIFICATION

Applicant's name:	DaFaith Trading, LLC		
Address:	12934 Hideaway Lane, San Diego, CA 92131, USA		
Manufacture's Name:	Shenzhen Hexiang Enterprises Limited		
Address:	Room:3-006AB, 3F., Tianxia IC Industrial Park, No. 133, Yiyuan Road, Nanshan District, Shenzhen, 518052 China		
Product description			
Product name:	mobile phone		
Brand name:	NEOIX		
Model and/or type reference:	V7		
Standards:	FCC Part 15B		
Test procedure	. ANSI C63.4-2014		
under test (EUT) is in complian sample identified in the report. This report shall not be reprodu	as been tested by BZT and the test results show that the equipment ce with the FCC requirements. And it is applicable only to the tested ced except in full, without the written approval of BZT, this document T, personal only, and shall be noted in the revision of the document.		
Date of Test			
Date of performance of tests	. 19 Apr. 2017 ~15 May. 2017		
Date of Issue	. 16 May 2017		
Test Result	. Pass		
Testing Engi	neer: Back Li		
	(Back Li)		
Technical Ma	anager:		
	(Chopin Xiao)		
Authorized S	Signatory:		

(Vita Li)

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Revision History

Rev.	Issue Date	Report NO.	Effect Page	Contents
00	16 May. 2017	STS1704167E01	ALL	Initial Issue

1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

EMISSION			
Standard	Item	Result	Remarks
FCC 47 CFR Part 15 Subpart B	Conducted Emission	PASS	Meet Class B limit
(10-1-05 Edition)	Radiated Emission	PASS	Meet Class B limit

NOTE:

(1) " N/A" denotes test is not applicable in this Test Report

1.1 TEST FACTORY

BZT 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 No.: 701733

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 % ,

No.	Item	Uncertainty
1	Conducted Emission (9KHz-150KHz)	±2.88dB
2	Conducted Emission (150KHz-30MHz)	±2.67dB
3	RF power,conducted	±0.70dB
4	Spurious emissions,conducted	±1.19dB
5	All emissions,radiated(<30M) (9KHz-30MHz)	±2.45dB
6	All emissions,radiated(<1G) 30MHz-200MHz	±2.83dB
7	All emissions,radiated(<1G) 200MHz-1000MHz	±2.94dB
8	All emissions,radiated(>1G)	±3.03dB
9	Temperature	±0.5°C
10	Humidity	±2%

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	mobile phone	
Trade Name	NEOIX	
Model Name	V7	
Series Model	F241BL,F241RD,F241BK,F241WT, 8S247	
Model Difference	Only different in model name	
MCU Operating frequency	2480MHz	
Adapter	Input: AC 100-240V, 0.15A, 50/60Hz Output: DC 5.0V, 1000mA	
Battery	Rated Voltage: 3.7V Capacity:600mAh Charge Limit: 4.2V	
Hardware version number	L03-MB-V01	
Software version number	LT03_PRX_V7_NEOIX_V1.0_GSM_FM_20170414.pac	
Connecting I/O Port(s)	Please refer to the User's Manual	

Note: For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

2.2 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	USB port communication with PC	

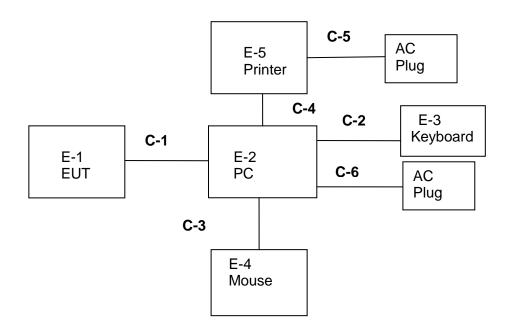
For Conducted Test			
Final Test Mode Description			
Mode 1	USB port communication with PC		

For Radiated Test			
Final Test Mode Description			
Mode 1 USB port communication with PC			

NOTE:

- 1. Due to the different configuration and test, in this list only some worse mode. The worst test data of the worse modeis reported by this report.
- 2. We have be tested for all avaiable U.S. voltage and frequencies(For 120V, 50/60Hz and 240V, 50/60Hz) for which the device is capable of operation.

2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



2.4 DESCRIPTION OF SUPPORT UNITS

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	Mfr/Brand	Model/Type No.	Note
E-1	mobile phone	NEOIX	V7	EUT
E-2	PC	4CV428DQXR	500-320cx	N/A
E-3	Keyboard	HP	PR1101U	N/A
E-4	Mouse	MOTOSPEED	F66	N/A
E-5	Printer	HP	HP1020	N/A
C-6	AC (PC Adapter)	LITEON	PA-1650-86	N/A

Item	Shielded Type	Ferrite Core	Length	Note
C-1	USB Cable (FTP)	NO	90cm	N/A
C-2	USB Cable (FTP)	NO	100cm	N/A
C-3	USB Cable (FTP)	NO	100cm	N/A
C-4	USB Cable (FTP)	NO	110cm	N/A
C-5	AC (Printer Cable) (FTP)	NO	100cm	N/A
C-6	AC (PC Cable) (FTP)	NO	120cm	N/A

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 <code>"Length_"</code> column.
- (3) "YES" is means "shielded" "with core"; "NO" is means "unshielded" "without core".
- (4) PC is the FCC DOC is approved.

2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

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.

Radiation Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until	
EMI Test Receiver	R&S	ESCI	101427	2016.10.23	2017.10.22	
Loop Antenna	EMCO	6502	9003-2485	2016.03.06	2019.03.03	
Bilog Antenna	TESEQ	CBL6111D	34678	2014.11.24	2017.11.23	
Horn Antenna	Schwarzbeck	BBHA 9120D(1201)	9120D-1343	2015.03.05	2018.03.04	
Horn Antenna	Schwarzbeck	BBHA 9170	9170-0741	2016.03.06	2019.03.05	
PreAmplifier	Agilent	8449B	60538	2016.10.23	2017.10.22	
Temperature & Humitidy	Mieo	HH660	N/A	2016.10.23	2017.10.22	
Unversal radio communication tester	R&S	CMU200	111764	2016.10.23	2017.10.22	
Spectrum Analyzer	Agilent	E4407B	MY50140340	2016.10.23	2017.10.22	
Low frequency cable	EM	R01	N/A	NCR	NCR	
High frequency cable	SCHWARZBE CK	AK9515H	SN-96286/9628 7	NCR	NCR	
Semi-anechoic chamber	Changling	966	N/A	2016.10.23	2017.10.22	

Conduction Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
EMI Test Receiver	R&S	ESPI	102086	2016.10.23	2017.10.22
LISN	R&S	ENV216	101242	2016.10.23	2017.10.22
LISN	EMCO	3810/2NM	000-23625	2016.10.23	2017.10.22
Conduction Cable	EM	C01	N/A	NCR	NCR
Shielding Room	Changling	854	N/A	2016.10.23	2017.10.22

3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION Limits

	Conducted Emission Limits (dBuV)					
FREQUENCY (MHz)	Clas	ss A	Class B			
	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

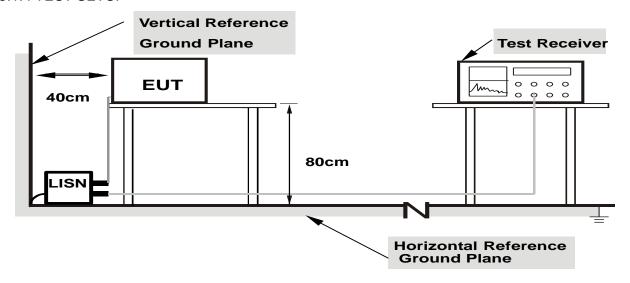
The EUT was 0.8 meters from the horizontal ground plane and 0.4 meters from the vertical ground plane with EUT being connected to the power mains through a line impedance

- a. 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.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.

3.1.3 DEVIATION FROM TEST STANDARD

No deviation

3.1.4 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 from other units and other metal planes

3.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

3.1.6 TEST RESULTS

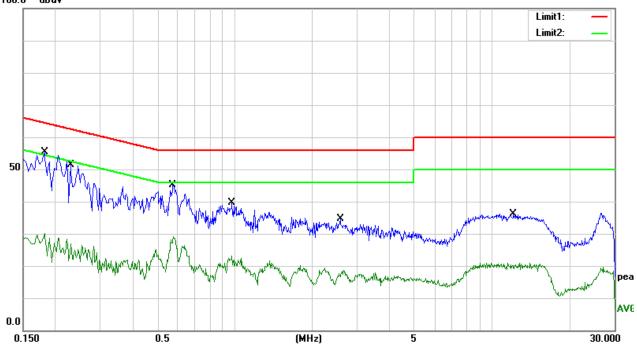
Temperature:	26 ℃	Relative Humidity:	60%
Pressure:	1010hPa	Phase:	L1
Test Voltage:	AC 120V/60Hz	Test Mode:	Mode 1

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No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1820	46.04	9.23	55.27	64.39	-9.12	QP
2	0.1820	19.94	9.23	29.17	54.39	-25.22	AVG
3	0.2300	42.12	9.20	51.32	62.45	-11.13	QP
4	0.2300	17.28	9.20	26.48	52.45	-25.97	AVG
5	0.5740	35.88	9.18	45.06	56.00	-10.94	QP
6	0.5740	18.51	9.18	27.69	46.00	-18.31	AVG
7	0.9780	30.39	9.16	39.55	56.00	-16.45	QP
8	0.9780	13.90	9.16	23.06	46.00	-22.94	AVG
9	2.5700	25.27	9.26	34.53	56.00	-21.47	QP
10	2.5700	8.15	9.26	17.41	46.00	-28.59	AVG
11	12.1620	26.64	9.48	36.12	60.00	-23.88	QP
12	12.1620	10.10	9.48	19.58	50.00	-30.42	AVG

Remark:

- 1. All readings are Quasi-Peak and Average values.
 2. Margin = Result (Result = Reading + Factor)—Limit 100.0 dBuV



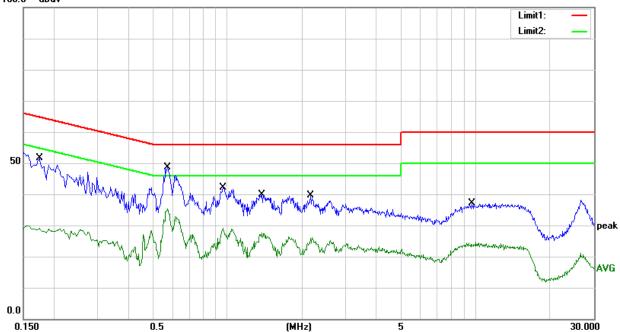
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Temperature:	26 ℃	Relative Humidity:	60%
Pressure:	1010hPa	Phase:	N
Test Voltage:	AC 120V/60Hz	Test Mode:	Mode 1

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1740	42.39	9.23	51.62	64.77	-13.15	QP
2	0.1740	19.61	9.23	28.84	54.77	-25.93	AVG
3	0.5740	39.54	9.18	48.72	56.00	-7.28	QP
4	0.5740	26.22	9.18	35.40	46.00	-10.60	AVG
5	0.9620	33.03	9.16	42.19	56.00	-13.81	QP
6	0.9620	19.98	9.16	29.14	46.00	-16.86	AVG
7	1.3740	30.75	9.19	39.94	56.00	-16.06	QP
8	1.3740	18.52	9.19	27.71	46.00	-18.29	AVG
9	2.1660	30.25	9.26	39.51	56.00	-16.49	QP
10	2.1660	16.73	9.26	25.99	46.00	-20.01	AVG
11	9.6900	27.68	9.48	37.16	60.00	-22.84	QP
12	9.6900	14.30	9.48	23.78	50.00	-26.22	AVG

Remark:

- 1. All readings are Quasi-Peak and Average values.
 2. Margin = Result (Result =Reading + Factor)–Limit 100.0 dBuV



3.2 RADIATED EMISSION MEASUREMENT

3.2.1 Radiated Emission Limits

In case the emission fall within the restricted band specified on 15.105(a)&109(a) limit in the table below has to be followed.

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT

FREQUENCY (MHz)	Class A (d	BuV/m) (at 3M)	Class B (dBuV/m) (at 3M)	
FREQUENCT (IVII12)	PEAK		PEAK	AVERAGE
Above 1000	80	60	74	54

Note:

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

FREQUENCY RANGE OF RADIATED MEASUREMENT (For unintentional radiators)

Highest frequency generated or Upper	
frequency of measurement used in the device	Range (MHz)
or on which the device operates or tunes	Kange (MHZ)
(MHz)	
Below 1.705	30
1.705 – 108	1000
108 – 500	2000
500 – 1000	5000
Above 1000	5th harmonic of the highest frequency or 40 GHz,
7,5570 1000	whichever is lower

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Spectrum Parameter	Setting		
Attenuation	Auto		
Detector	Peak		
Start Frequency	1000 MHz(Peak/AV)		
Stop Frequency	5th harmonic (Peak/AV)		
DD ///D /ii itri-td hd/	30MHz to 1000MHz: 100 KHz / 300 KHz		
RB / VB (emission in restricted band)	Above 1000MHz: 1 MHz / 3 MHz		

Receiver Parameter	Setting		
Attenuation	Auto		
Start ~ Stop Frequency	30MHz to 1000MHz: 100 KHz / 300 KHz		
	Above 1000MHz: 1 MHz / 3 MHz		

3.2.2 TEST PROCEDURE

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz and above 1GHz.
- The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter b. anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- the height of the antenna shall vary between 1m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- The initial step in collecting conducted emission data is a spectrum analyzer peak detector d. mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the e. EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

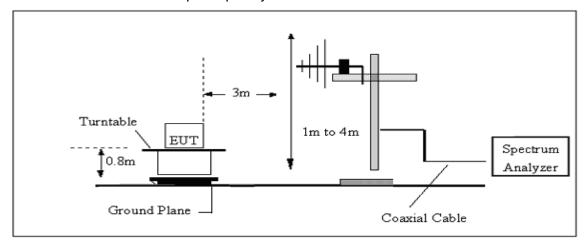
Note: Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

3.2.3 DEVIATION FROM TEST STANDARD

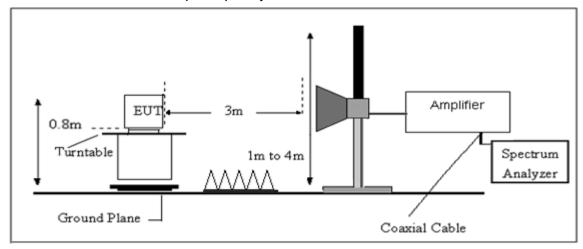
No deviation

3.2.4 TEST SETUP

(A) Radiated Emission Test-Up Frequency 30MHz~1GHz



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



3.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

3.2.6 TEST RESULTS

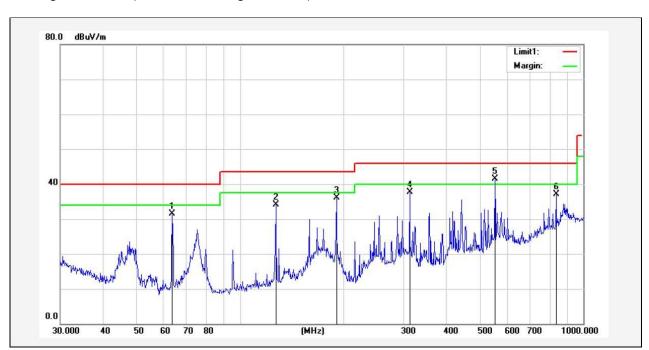
30MHz -1000MHz

Temperature:	26℃	Relative Humidity:	60%
Pressure:	1010hPa	Phase:	Horizontal
Test Voltage:	AC 120V/60Hz	Test Mode:	Mode 1

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	63.5356	55.76	-24.26	31.50	40.00	-8.50	QP
2	127.2176	51.70	-17.59	34.11	43.50	-9.39	QP
3	191.0738	56.37	-20.24	36.13	43.50	-7.37	QP
4	312.1794	52.09	-14.42	37.67	46.00	-8.33	QP
5	552.8832	48.23	-6.71	41.52	46.00	-4.48	QP
6	833.3171	40.20	-3.01	37.19	46.00	-8.81	QP

Remark:

1. Margin = Result (Result = Reading + Factor)—Limit

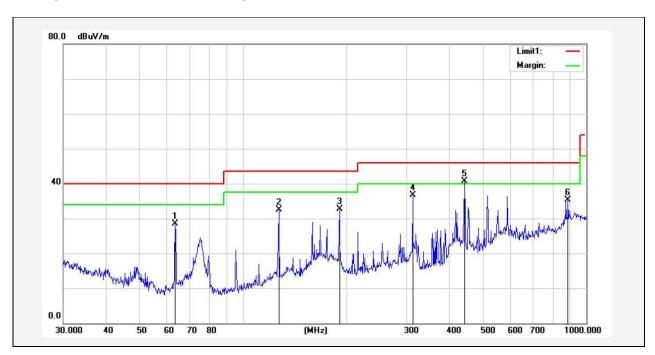


Temperature:	26℃	Relative Humidity:	60%
Pressure:	1010hPa	Phase:	Vertical
Test Voltage:	AC 120V/60Hz	Test Mode:	Mode 1

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	63.5356	52.85	-24.26	28.59	40.00	-11.41	QP
2	127.2176	50.08	-17.59	32.49	43.50	-11.01	QP
3	191.0738	53.03	-20.24	32.79	43.50	-10.71	QP
4	312.1794	51.19	-14.42	36.77	46.00	-9.23	QP
5	441.7426	51.61	-10.82	40.79	46.00	-5.21	QP
6	884.5030	37.77	-2.46	35.31	46.00	-10.69	QP

Remark:

1. Margin = Result (Result = Reading + Factor)-Limit



(1 GHz to 25GHz.)

Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase:	Vertical/Horizontal
Test Voltage:	AC 120V/60Hz	Test Mode:	Mode 1

PΚ

Freq.	Ant.	Peak	Amplifier	Loss	Antenna	Orrected	Actual Fs	Peak	Peak
1164.	Pol	Feak	Amplinei	L055	Factor	Factor	Actual 1 5	1 Cak	1 Gan
(NALI=)	ШΛ/	H/V Reading (dB) (dB) (dB/m) (dB)	(4D)	Peak Limit	Limit	margin			
(MHz)	H/V	(dBuV)	(dB)	(dB)	(UD/III)	(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)
1401.51	Н	67.81	45.1	4.0	25.1	-16.0	51.81	74.00	-22.19
3001.22	Н	56.74	44.7	6.7	28.2	-9.8	46.94	74.00	-27.06
4002.87	Н	62.42	44.2	7.9	29.7	-6.6	55.82	74.00	-18.18
5507.12	Н	52.16	44.2	9.7	32.0	-2.5	49.66	74.00	-24.34
1401.51	V	53.94	45.1	4.0	25.1	-16.0	37.94	74.00	-36.06
3001.22	V	54.15	44.7	6.7	28.2	-9.8	44.35	74.00	-29.65
4002.87	V	63.68	44.2	7.9	29.7	-6.6	57.08	74.00	-16.92
5507.12	V	57.57	44.2	9.7	32.0	-2.5	55.07	74.00	-18.93

AV

Freq.	Ant.	AV	Amplifier	Loss	Antenna	Orrected		AV	AV
1104.	Pol	7.0	7 timpililoi	2000	Factor	Factor		711	, . · ·
(NALI=)	ЦΛ/	Reading	(dD)	(dD)	(dD/m)	(dD)	AV	Limit	margin
(IVITZ)	(MHz) H/V	(dBuV)	(dB)	(dB)	(dB/m)	(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)
1401.51	Н	49.62	45.1	4.0	25.1	-16.0	33.62	54.00	-20.38
3001.22	Ι	46.19	44.7	6.7	28.2	-9.8	36.39	54.00	-17.61
4002.87	Ι	52.09	44.2	7.9	29.7	-6.6	45.49	54.00	-8.51
5507.12	Ι	50.11	44.2	9.7	32.0	-2.5	47.61	54.00	-6.39
1401.51	V	37.69	45.1	4.0	25.1	-16.0	21.69	54.00	-32.31
3001.22	V	41.53	44.7	6.7	28.2	-9.8	31.73	54.00	-22.27
4002.87	V	33.57	44.2	7.9	29.7	-6.6	26.97	54.00	-27.03
5507.12	V	30.23	44.2	9.7	32.0	-2.5	27.73	54.00	-26.27

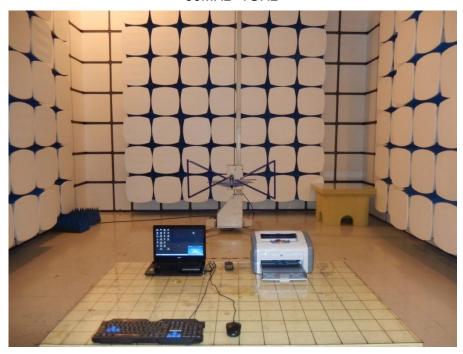
Notes:

- 1. Measuring frequencies from 1 GHz to 25GHz.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode of the emission shown in Actual FS column.
- 3. The frequency that above 5.5GHz is mainly from the environment noise.

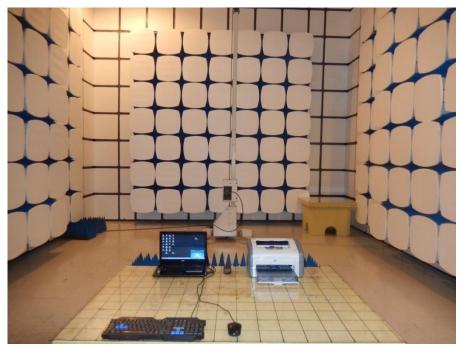
4. PHOTOS OF TEST SETUP

Radiated Measurement Photos

30MHz-1GHz

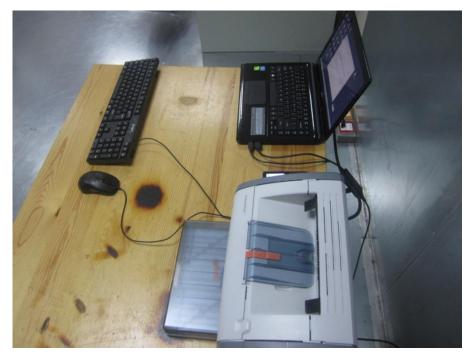


Above 1GHz



Conducted Measurement Photos





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