



FCC Part 15B TEST REPORT

Report No: STS1608148E01

Issued for

AMS Communications Inc

11029 Harry Hines Blvd, Suite B 118, Dallas Tx 75229, USA

L A B

Product Name:	3G Smart phone	
Brand Name:	Ojji	
Model Name:	OJJI lite	
Series Model:	N/A	
FCC ID:	2AE2XOJJILITE	
Test Standard:	FCC Part 15B	

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Report No.: STS1608148E01



TEST RESULT CERTIFICATION Applicant's name AMS Communications Inc Address 11029 Harry Hines Blvd, Suite B 118, Dallas Tx 75229, USA Manufacture's Name Candy High-Tech (H.K.) Limited Room 4007, 4 Floor, East block 3, Laobing building, 3012 Xingye Address: Road, Xixiang, Baoan district, Shenzhen, China **Product description** Product name 3G Smart phone Brand name Ojji Model and/or type reference...: OJJI lite Standards FCC Part 15B Test procedure...... ANSI C63.4-2014 This device described above has been tested by STS, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report. This report shall not be reproduced except in full, without the written approval of STS, this document may be altered or revised by STS, personal only, and shall be noted in the revision of the document. Date of Test Date of performance of tests 18 Aug. 2016~23 Aug. 2016 Date of Issue 24 Aug. 2016 Test Result......Pass **Testing Engineer** Technical Manager (Vita Li)

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Revision History

Rev.	Issue Date Report NO.		Effect Page	Contents
00	00 24 Aug. 2016 STS1608148E01		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

Shenzhen STS Test Services Co., Ltd.

Add.: 1/F., Building B, Zhuoke Science Park, No.190, Chongqing Road,

Fuyong Street, Bao'an District, Shenzhen, Guangdong, China

CNAS Registration No.: L7649;

FCC Registration No.: 842334; IC Registration No.: 12108A-1

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	3G Smart phone
Trade Name	Ojji
Model Name	OJJI lite
Series Model	N/A
Model Difference	N/A
MCU Operating frequency	1.2GHz
Adapter	Input: AC100-240V, 150mA, 50/60 Hz Output: DC 5V, 600mA
Battery	Rated Voltage: 3.7V Capacity :1000mAh
Hardware version number	V2.0
Software version number	s3017_72_nand_bp202_htc_42_2016_05_03_21_42
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

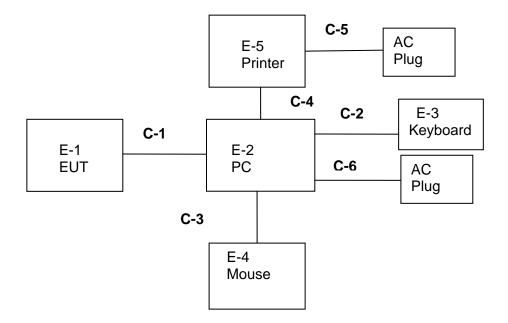
For Conducted Test				
Final Test Mode	Description			
Mode 1	USB port communication with PC			

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.	Serial No.	Note
E-1	3G Smart phone	Ojji	OJJI lite	N/A	EUT
E-2	PC	4CV428DQXR	500-320cx	4CV428DQYN	N/A
E-3	Keyboard	HP	PR1101U	DKUSB1B06Q42209FBK800	N/A
E-4	Mouse	MOTOSPEED	F66	697738-001	N/A
E-5	Printer	HP	HP1020	CNBB102765	N/A
C-6	AC (PC Adapter)	LITEON	PA-1650-86	3X06399004	N/A

Item	Shielded Type	ed 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>FLength_</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	2015.10.25	2016.10.24
Loop Antenna	Daze	ZN30900N	SEL0097	2015.10.27	2016.10.26
Bilog Antenna	TESEQ	CBL6111D	34678	2015.11.25	2016.11.24
Horn Antenna	Schwarzbeck	BBHA 9120D(1201)	9120D-1343	2016.03.06	2017.03.05
PreAmplifier	Agilent	8449B	60538	2015.10.25	2016.10.24
Temperature & Humitidy	Mieo	HH660	N/A	2015.10.28	2016.10.27
Unversal radio communication tester	R&S	CMU200	111764	2015.10.25	2016.10.24
Spectrum Analyzer	Agilent	E4407B	MY50140340	2015.10.25	2016.10.24
Low frequency cable	EM	R01	N/A	N/A	N/A
High frequency cable	SCHWARZBE CK	AK9515H	SN-96286/9628 7	N/A	N/A

Conduction Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
EMI Test Receiver	R&S	ESPI	102086	2015.11.20	2016.11.19
LISN	R&S	ENV216	101242	2015.10.25	2016.10.24
LISN	EMCO	3810/2NM	000-23625	2015.10.25	2016.10.24
Conduction Cable	EM	C01	N/A	N/A	N/A



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

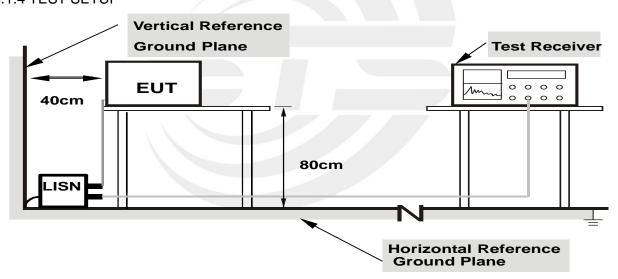
The EUT was placed 0.4 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support

- a. 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.



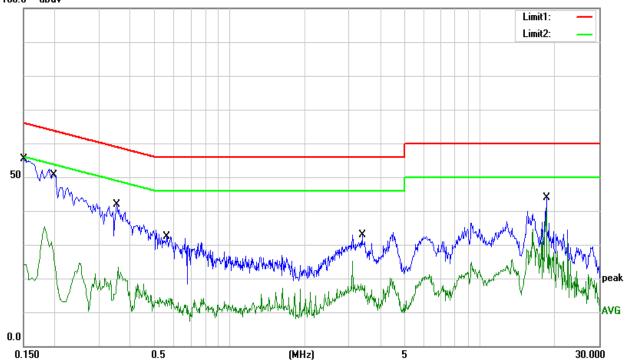
3.1.6 TEST RESULTS

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

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1500	46.09	9.23	55.32	66.00	-10.68	QP
2	0.1500	14.82	9.23	24.05	56.00	-31.95	AVG
3	0.1980	41.41	9.23	50.64	63.69	-13.05	QP
4	0.1980	13.95	9.23	23.18	53.69	-30.51	AVG
5	0.3540	32.59	9.18	41.77	58.87	-17.10	QP
6	0.3540	12.74	9.18	21.92	48.87	-26.95	AVG
7	0.5620	23.30	9.17	32.47	56.00	-23.53	QP
8	0.5620	2.81	9.17	11.98	46.00	-34.02	AVG
9	3.3980	23.61	9.26	32.87	56.00	-23.13	QP
10	3.3980	7.15	9.26	16.41	46.00	-29.59	AVG
11	18.4340	34.24	9.67	43.91	60.00	-16.09	QP
12	18.4340	31.31	9.67	40.98	50.00	-9.02	AVG

Remark:

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





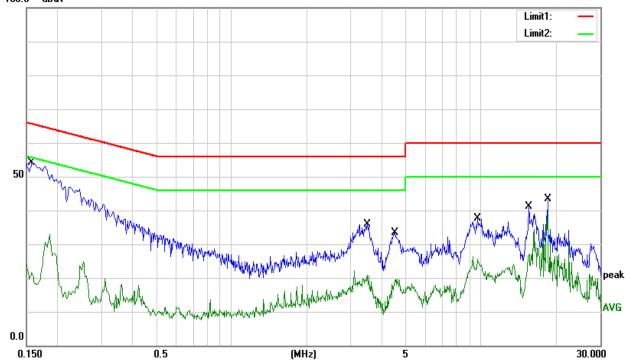
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Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase:	Ν
Test Voltage:	AC 120V/60Hz	Test Mode:	Mode 1

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1580	44.82	9.23	54.05	65.57	-11.52	QP
2	0.1580	11.54	9.23	20.77	55.57	-34.80	AVG
3	3.5020	26.58	9.26	35.84	56.00	-20.16	QP
4	3.5020	10.26	9.26	19.52	46.00	-26.48	AVG
5	4.5180	24.19	9.27	33.46	56.00	-22.54	QP
6	4.5180	10.04	9.27	19.31	46.00	-26.69	AVG
7	9.6740	28.18	9.39	37.57	60.00	-22.43	QP
8	9.6740	14.74	9.39	24.13	50.00	-25.87	AVG
9	15.4740	31.75	9.47	41.22	60.00	-18.78	QP
10	15.4740	16.64	9.47	26.11	50.00	-23.89	AVG
11	18.4300	33.61	9.67	43.28	60.00	-16.72	QP
12	18.4300	30.18	9.67	39.85	50.00	-10.15	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)		
FREQUENCY (IVID2)	PEAK	AVERAGE	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)

Range (MHz)
Kange (Minz)
30
1000
2000
5000
5th harmonic of the highest frequency or 40 GHz, 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 (aminaina in mantriate d la and)	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 Stan Fraguency	30MHz to 1000MHz: 100 KHz / 300 KHz	
Start ~ Stop Frequency	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

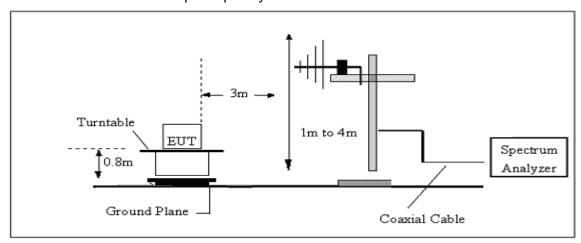
3.2.3 DEVIATION FROM TEST STANDARD

No deviation

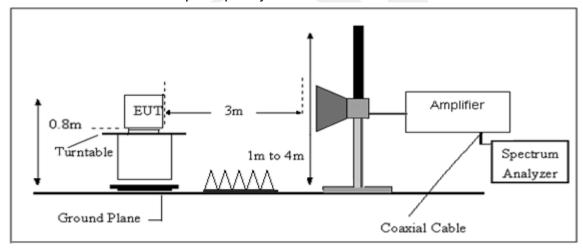


3.2.4 TEST SETUP

(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

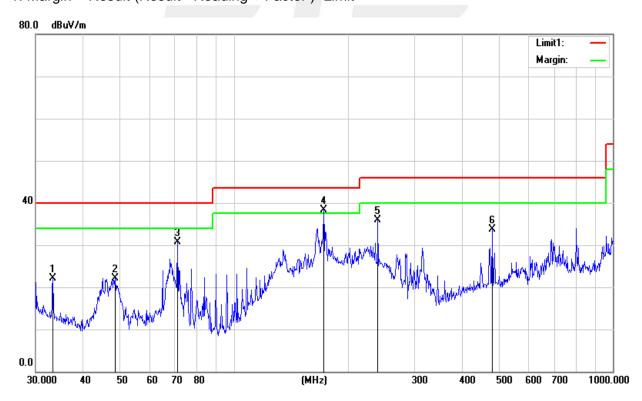
30MHz -1000MHz

Temperature:	26 ℃	Relative Humidity:	54%
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	33.3280	35.10	-12.90	22.20	40.00	-17.80	QP
2	48.6720	42.85	-20.80	22.05	40.00	-17.95	QP
3	71.0803	54.69	-23.94	30.75	40.00	-9.25	QP
4	172.5988	57.73	-19.36	38.37	43.50	-5.13	QP
5	239.9873	53.57	-17.76	35.81	46.00	-10.19	QP
6	480.5276	43.03	-9.38	33.65	46.00	-12.35	QP

Remark:

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





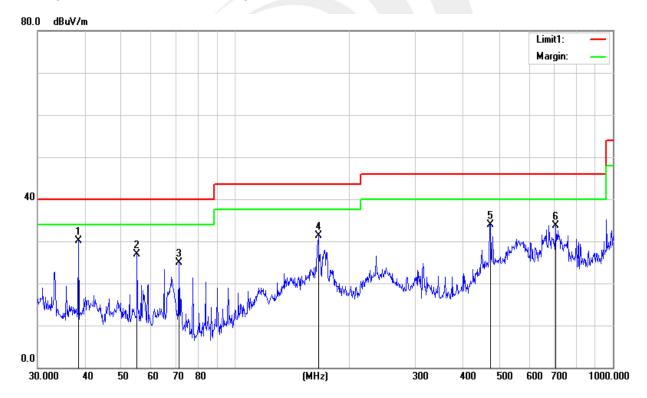
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Temperature:	26 ℃	Relative Humidity:	54%	
Pressure:	1010hPa	Phase:	Vertical	
Test Voltage:	AC 120V/60Hz	Test Mode:	Mode 1	

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	38.4810	45.73	-15.54	30.19	40.00	-9.81	QP
2	55.0274	49.74	-22.92	26.82	40.00	-13.18	QP
3	71.0803	48.78	-23.94	24.84	40.00	-15.16	QP
4	166.0680	50.24	-19.00	31.24	43.50	-12.26	QP
5	473.8347	43.45	-9.62	33.83	46.00	-12.17	QP
6	706.7000	38.82	-5.12	33.70	46.00	-12.30	QP

Remark:

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



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(1 GHz to 13GHz.)

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

PΚ

Freq.	Ant. Pol	Peak	Amplifier	Loss	Antenna	Orrected	Actual Fs	Peak	Peak
Ant. 1 of	reak	Ampilliei	L055	Factor	Factor	Actual 13	1 can	1 Call	
(NALI-7)	(MHz) H/V	Reading	(dB)	(dB)	(dB/m)	(dB)	Peak	Limit	margin
(IVITIZ)		(dBuV)				(UB)	(dBuV/m)	(dBuV/m)	(dBuV/m)
3500	Н	57.21	44.40	7.10	28.50	-8.80	48.41	74.00	-25.59
4800	Н	52.23	44.20	9.00	31.60	-3.60	48.63	74.00	-25.37
N/A									
3500	V	52.21	44.40	7.10	28.50	-8.80	43.41	74.00	-30.59
4800	V	49.43	44.20	9.00	31.60	-3.60	45.83	74.00	-28.17
N/A									

AV

Freq.	Ant. Pol	AV	Amplifier	Loss	Antenna	Orrected		AV	AV
					Factor	Factor			
(MHz)	H/V	Reading	(dB)	(dB)	(dB/m)	(dB)	AV	Limit	margin
(1411.12)	, .	(dBuV)		(GD)	(GD/III)	(UD)	(dBuV/m)	(dBuV/m)	(dBuV/m)
3500	Н	41.21	44.40	7.10	28.50	-8.80	32.41	54.00	-21.59
4800	Н	38.21	44.20	9.00	31.60	-3.60	34.61	54.00	-19.39
N/A									
3500	V	37.32	44.40	7.10	28.50	-8.80	28.52	54.00	-25.48
4800	V	32.32	44.20	9.00	31.60	-3.60	28.72	54.00	-25.28
N/A							·		

Note: Above 5GHz amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has.



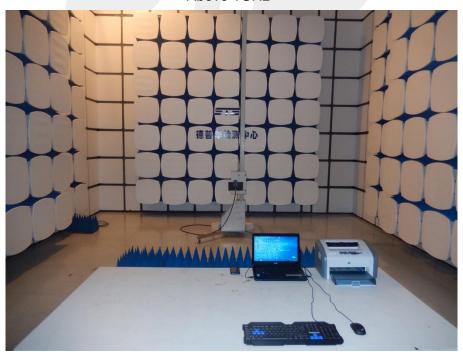
4. PHOTOS OF TEST SETUP

Radiated Measurement Photos

30MHz-1GHz



Above 1GHz





Conducted Measurement Photos



****END OF THE REPORT***