



FCC Part 15B TEST REPORT

Report No: STS1506072E01

Issued for

Sky Phone LLC

1348 Washington Av. #350 Miami Beach FL., USA

Product Name: Smart Phone

Brand Name: Sky Devices

Model No.: Sky 5.0L

Series Model: N/A

FCC ID: 2ABOSSKY50L

Test Standard: FCC Part 15B

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TEST RESULT CERTIFICATION

Applicant's name	Sky Phone LLC
Address	1348 Washington Av. #350 Miami Beach FL., USA
Manufacture's Name	Shenzhen Konka Telecommunications Technology Co., Ltd.
Address	No.9008 Shennan Road, Overseas Chinese Town, Shen Zhen, Guangdong, China
Product description	
Product name	Smart Phone
Brand name	Sky Devices
Model and/or type reference	Sky 5.0L
Standards	FCC Part 15B
Test procedure	ANSI C63.4-2014
under test (EUT) is in compliar sample identified in the report. This report shall not be rep document may be altered or re document.	roduced except in full, without the written approval of STS, this exised by STS, personal only, and shall be noted in the revision of the
Date of Test	
Date of performance of tests	
Date of Issue	
Test Result	Pass
Testing Engi	Hakim Hou)
Technical Ma	(Vita Li) APPROVAL &
Authorized S	signatory: Thomas Yorks

(Bovey Yang)







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Revision History

Rev.	Issue Date Report NO.		Effect Page	Contents
00	17 July. 2015	STS1506072E01	ALL	Initial Issue





1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

EMISSION					
Standard	Item Resul		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 FACILITY

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(<1G) 30MHz-200MHz	±2.83dB
6	All emissions,radiated(<1G) 200MHz-1000MHz	±2.94dB
7	All emissions,radiated(>1G)	±3.03dB
8	Temperature	±0.5°C
9	Humidity	±2%

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Smart Phone
Trade Name	Sky Devices
Model Name	Sky 5.0L
Serial Model	N/A
Model Difference	N/A
Channel List	Please refer to the Note 2.
Power Rating	Adapter: Input:AC 100-240V,50/60Hz,200mA Output:DC 5V,1000mA Battery: Rated Voltage:3.8V capacity: 2000mA
Hardware version number	V1.1
Software versioning number	ALPS.L1.MP3.V1_KONKA6735M.35U.L
Connecting I/O Port(s)	N/A

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 do data communication with PC

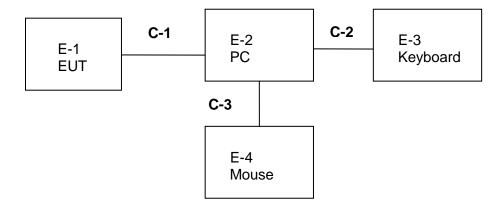
For Conducted Test				
Final Test Mode	Description			
Mode 1	USB port do data communication with PC			

For Radiated Test				
Final Test Mode Description				
Mode 1	USB port do data 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.	Series No.	Note
E-1	Smart Phone	Sky Devices	Sky 5.0L	N/A	EUT
E-2	PC	HP	500-320cx	4CV428DQYN	N/A
E-3	Earphone	Sky Devices	SX-3511	N/A	EUT

Item	Shielded Type	Ferrite Core	Length	Note
C-1	unshielded	NO	72.5cm	N/A
C-2	unshielded	NO	138.5cm	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	2014.10.25	2015.10.24
Loop Antenna	Daze	ZN30900N	SEL0097	2014.10.27	2015.10.26
Bilog Antenna	TESEQ	CBL6111D	34678	2014.11.25	2015.11.24
Horn Antenna	Schwarzbeck	BBHA 9120D(1201)	9120D-1343	2015.03.06	2016.03.05
PreAmplifier	Agilent	8449B	60538	2014.10.25	2015.10.24
Temperature & Humitidy	Mieo	HH660	N/A	2014.10.28	2015.10.27
Unversal radio communication tester	R&S	CMU200	111764	2014.10.25	2015.10.24
Spectrum Analyzer	Agilent	E4407B	MY50140340	2014.10.25	2015.10.24

Conduction Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
EMI Test Receiver	R&S	ESPI	102086	2014.11.20	2015.11.19
LISN	R&S	ENV216	101242	2014.10.25	2015.10.24
Absorbing clamp	R&S	MDS-21	100668	2014.10.27	2015.10.26



3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION Limits

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

0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	73.00	60.00	56.00	46.00	FCC
5.0 -30.0	73.00	60.00	60.00	50.00	FCC

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

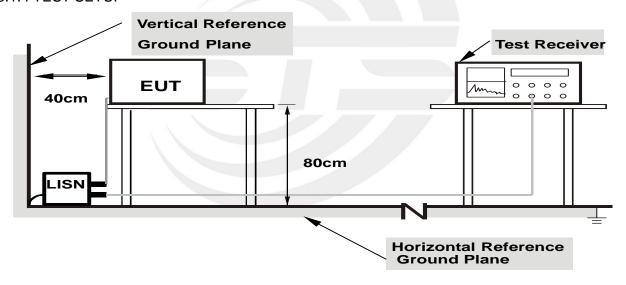
The EUT was placed 0.4 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support

- 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.



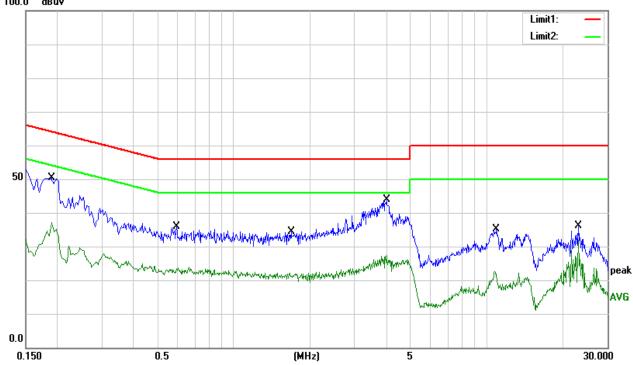
3.1.6 TEST RESULTS

EUT:	Smart Phone	Model Name.:	Sky 5.0L
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase:	L
Test Voltage:	DC 5V	Test Mode:	Mode 1

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV/m)	Margin (dB)	Detector
1	0.1900	40.28	10.00	50.28	64.04	-13.76	QP
2	0.1900	27.23	10.00	37.23	54.04	-16.81	AVG
3	0.5940	25.88	9.95	35.83	56.00	-20.17	QP
4	0.5940	13.40	9.95	23.35	46.00	-22.65	AVG
5	1.6820	24.29	9.97	34.26	56.00	-21.74	QP
6	1.6920	11.06	9.97	21.03	46.00	-24.97	AVG
7	4.0220	33.68	10.19	43.87	56.00	-12.13	QP
8	4.0420	16.52	10.19	26.71	46.00	-19.29	AVG
9	10.9340	24.66	10.37	35.03	60.00	-24.97	QP
10	10.9340	11.39	10.37	21.76	50.00	-28.24	AVG
11	23.1300	25.57	10.61	36.18	60.00	-23.82	QP
12	23.1300	21.25	10.61	31.86	50.00	-18.14	AVG

Remark:

1. Factor = Antenna Factor + Cable Loss - Pre-amplifier.





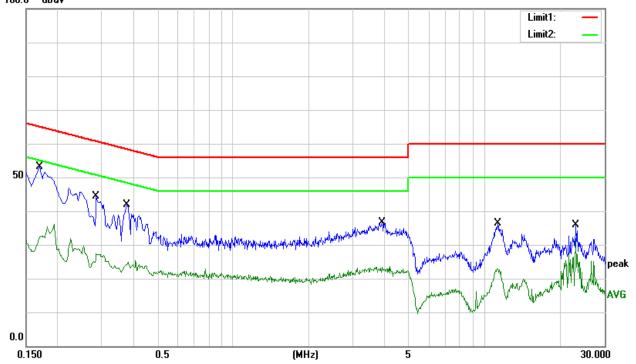
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EUT:	Smart Phone	Model Name.:	Sky 5.0L
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase:	N
Test Voltage:	DC 5V	Test Mode:	Mode 1

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV/m)	Margin (dB)	Detector
1	0.1700	43.21	10.00	53.21	64.96	-11.75	QP
2	0.1700	22.43	10.00	32.43	54.96	-22.53	AVG
3	0.2860	34.42	9.91	44.33	60.64	-16.31	QP
4	0.2860	17.34	9.91	27.25	50.64	-23.39	AVG
5	0.3780	31.95	9.98	41.93	58.32	-16.39	QP
6	0.3780	14.11	9.98	24.09	48.32	-24.23	AVG
7	3.9220	26.40	10.19	36.59	56.00	-19.41	QP
8	3.9220	13.29	10.19	23.48	46.00	-22.52	AVG
9	11.2660	25.99	10.30	36.29	60.00	-23.71	QP
10	11.2660	12.69	10.30	22.99	50.00	-27.01	AVG
11	23.1300	25.11	10.66	35.77	60.00	-24.23	QP
12	23.1300	21.18	10.66	31.84	50.00	-18.16	AVG

Remark:

1. Factor = Antenna Factor + Cable Loss - Pre-amplifier. 100.0 dBuV





3.2 RADIATED EMISSION MEASUREMENT

3.2.1 Radiated Emission Limits

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below 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

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

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

Note:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (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 or on which the device operates or tunes (MHz)	Range (MHz)
Below 1.705	30
1.705 – 108	1000
108 – 500	2000
500 – 1000	5000
Above 1000	5 th 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	10th carrier harmonic(Peak/AV)
RB / VB (emission in restricted band)	1 MHz / 1 MHz, AV=1 MHz / 10Hz

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz/RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz/RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz/RB 120kHz for QP

3.2.2 TEST PROCEDURE

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter b. open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. 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

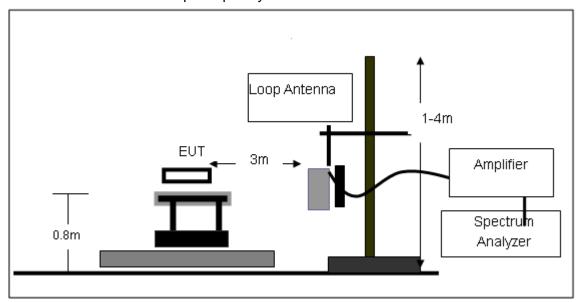
3.2.3 DEVIATION FROM TEST STANDARD

No deviation

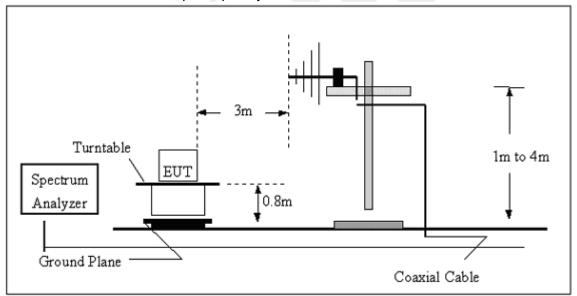


3.2.4 TEST SETUP

(A) Radiated Emission Test-Up Frequency Below 30MHz

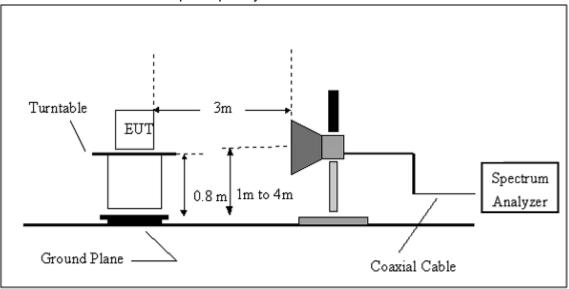


(B) Radiated Emission Test-Up Frequency 30MHz~1GHz





(C) 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

Below 30MHz

EUT:	Smart Phone	Model Name.:	Sky 5.0L
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase:	N/A
Test Voltage:	DC 5V	Test Mode:	N/A

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict

NOTE:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor =40 log (specific distance/test distance)(dB);

Limit line = specific limits(dBuv) + distance extrapolation factor.





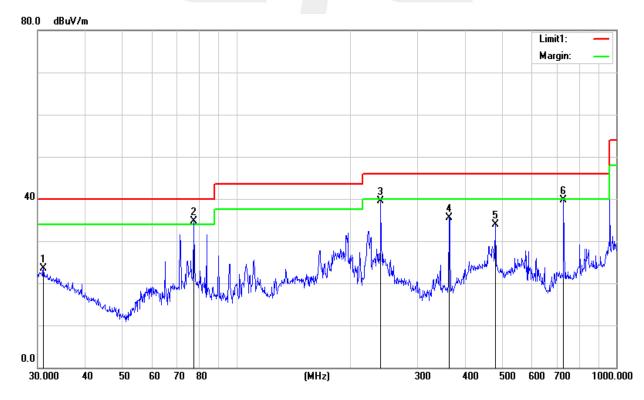
Between 30-1000MHz

EUT:	Smart Phone	Model Name.:	Sky 5.0L
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase:	Horizontal
Test Voltage:	DC 5V	Test Mode:	Mode 1

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	31.0704	5.27	18.15	23.42	40.00	-16.58	QP
2	77.3212	27.20	7.56	34.76	40.00	-5.24	QP
3	239.9873	27.71	11.81	39.52	46.00	-6.48	QP
4	362.9844	18.96	16.52	35.48	46.00	-10.52	QP
5	480.5276	13.95	19.95	33.90	46.00	-12.10	QP
6	726.8052	14.95	24.82	39.77	46.00	-6.23	QP

Remark:

- 1. All readings are Quasi-Peak and Average values.
- 2. Factor = Antenna Factor + Cable Loss.
- 3. N/A means All Data have pass Limit





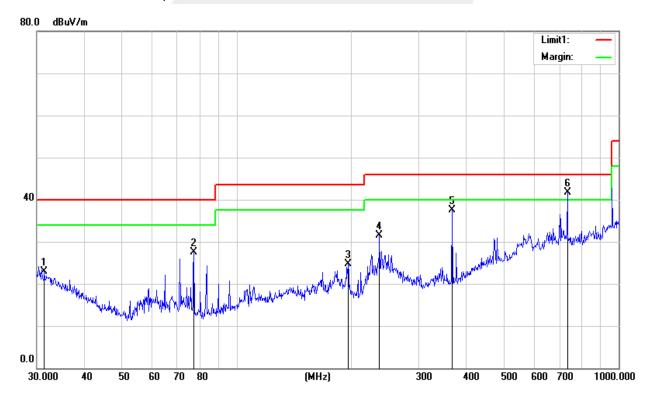
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EUT:	Smart Phone	Model Name.:	Sky 5.0L
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase:	Vertical
Test Voltage:	DC 5V	Test Mode:	Mode 1

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	31.3992	4.99	17.97	22.96	40.00	-17.04	QP
2	77.3212	19.98	7.56	27.54	40.00	-12.46	QP
3	195.8220	15.71	9.09	24.80	43.50	-18.70	QP
4	236.6447	20.19	11.41	31.60	46.00	-14.40	QP
5	366.8231	20.92	16.63	37.55	46.00	-8.45	QP
6	734.4913	16.52	25.20	41.72	46.00	-4.28	QP

Remark:

- 1. All readings are Quasi-Peak and Average values.
- 2. Factor = Antenna Factor + Cable Loss.
- 3. N/A means All Data have pass Limit





Above 1GHz

The worst test data above 1 GHz was showed as thefollow:

EUT:	Smart Phone	Model Name.:	Sky 5.0L
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Test Mode:	Mode 1

Freq.	Ant. Pol	Peak	AV	Ant./CL	Λotu	al Ec	Peak	AV	Peak	AV
(MHz)	H/V	Reading	Reading	CF	Actu	Actual Fs		Limit	margin	margin
		(dBuV)	(dBuV)	(dB)	Peak	Peak AV		(dBuV/m	(dBuV/m	(dBuV/
					(dBuV/m	(dBuV/m				
1097.51	Н	57.75	41.28	5.15	62.90	46.43	74.00	54.00	-11.10	-7.57
2866.88	Н	52.97	38.29	9.45	62.42	47.74	74.00	54.00	-11.58	-6.26
N/A										
1069.87	٧	52.80	37.55	5.15	57.95	42.70	74.00	54.00	-16.05	-11.30
2896.09	٧	49.59	32.14	9.45	59.04	41.59	74.00	54.00	-14.96	-12.41
N/A										

Notes:

- 1. Measuring frequencies from 1 GHz to 6GHz.
- 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 3GHz is mainly from the environment noise.



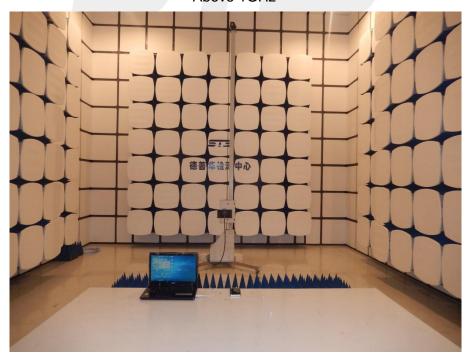
4. PHOTOS OF TEST SETUP

Radiated Measurement Photos

30MHz-1GHz



Above 1GHz





Conducted Measurement Photos



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