





FCC TEST REPORT

Report No:STS1806194W02

Issued for

Shenzhen DOKE Electronic Co., Ltd

13th Floor, Weidonglong commercial building B, Meilong avenue, Longhua New District, Shenzhen, China.

Product Name:	Wireless charge	
Brand Name:	Blackview	
Model Name:	W1	
Series Model:	N/A	
FCC ID:	2APMJW1	
Test Standard:	FCC Part 15 Subpart C	

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APPROVAL

Shenzhen STS Test Services Co., Ltd.

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TEST RESULT CERTIFICATION

13th Floor, Weidonglong commercial building B, Meilong avenue,

Longhua New District, Shenzhen, China.

Manufacture's Name Shenzhen DOKE Electronic Co., Ltd

Longhua New District, Shenzhen, China.

Product description

Product Name Wireless charge

Brand Name Blackview

Model Name: W1

Series Model: N/A

Test Standards..... FCC Part 15 Subpart C

Test Procedure: ANSI C63.10-2013

This device described above has been tested by STS, 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.

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Date of performance of tests: 22 June 2018 ~ 06 July 2018

Date of Issue: 06 July 2018

Test Result : Pass

Testing Engineer :

(Chris chen)

Technical Manager :

Authorized Signatory:

(Sean she)

(Vita Li)





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Revision History

Rev.	Issue Date	Report NO.	Effect Page	Contents
00	06 July 2018	STS1806194W02	ALL	Initial Issue





1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 , Subpart C				
Standard Section	Test Item	Judgment	Remark	
15.207	Conducted Emission	PASS		
15.209 (a)	Radiated emission, Spurious Emission	PASS		
2.1049	20 dB Bandwidth	PASS		

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.: 625569 IC Registration No.: 12108A; A2LA Certificate No.: 4338.01;

1.2 MEASUREMENT UNCERTAINTY

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

No.	Item	Uncertainty
1	Conducted Emission (9KHz-150KHz)	±2.88dB
2	Conducted Emission (150KHz-30MHz)	±2.67 dB
3	All emissions,radiated(<1G) 30MHz-200MHz	±2.83dB
4	All emissions,radiated(<1G) 200MHz-1000MHz	±2.94dB
5	Temperature	±0.5°C
6	Humidity	±2%



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Product Name	Wireless charge
Trade Name	Blackview
Model Name	W1
Series Model	N/A
Model Difference	N/A
Channel List	Please refer to the Note 2.
Equipemnt Category	Non-ISM frequency
Operating frequency	110.30-160. 2 KHz
Modulation Type	ASK
Power Rating	Input: DC 5V, 2A/ DC 9V,1.67A Output: DC 9V, 1.1A
Hardware version number	N/A
Software version number	N/A
Connecting I/O Port(s)	Please refer to the User's Manual

Note:

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

2

Channel List					
I Channel I ' ' I Channel I ' ' I Channel I '					Frequency (KHz)
01	110.3	02	135.1	03	160.2

3. Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	NOTE
1	Blackview	W1	Coil	NA	Antenna



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	Charging+TX Mode

For Conducted Emission		
Final Test Mode	Description	
Mode 1	Charging+TX Mode	

For Radiated Emission			
Final Test Mode Description			
Mode 1	Charging+TX Mode		

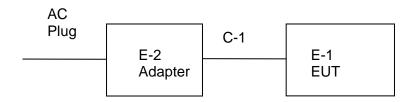
Note:5VDC/2A input mode and 9VDC/1.67A input mode all have been tested , only worse case 5VDC /2A mode is worse case and only worse case is reported.



2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters

Conducted Emission Test



Radiated EmissionTest





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-2	Adapter	LITEON	PA-1650-86	N/A	N/A

Item	Shielded Type	Ferrite Core	Length	Note
C-1	USB Cable	NO	50cm	N/A

Note:

- (1) FCC SDOC approved.
- (2) FTP is Foiled Twisted Pair.



2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Test Receiver	R&S	ESCI	101427	2017.10.15	2018.10.14
Bilog Antenna	TESEQ	CBL6111D	34678	2017.11.02	2018.11.01
50Ω Coaxial Switch	Anritsu	MP59B	6200264416	2017.10.15	2018.10.14
PreAmplifier	Agilent	8449B	60538	2017.10.15	2018.10.14
Loop Antenna	EMCO	6502	9003-2485	2017.10.15	2018.10.14
USB RF power sensor	DARE	RPR3006W	15I00041SNO03	2017.10.15	2018.10.14

Conduction Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Test Receiver	R&S	ESCI	101427	2017.10.15	2018.10.14
LISN	R&S	ENV216	101242	2017.10.15	2018.10.14
LISN	EMCO	3810/2NM	000-23625	2017.10.15	2018.10.14



3.CONDUCTED EMISSION TEST RESULT(SECTION 15.207)

3.1 POWER LINE CONDUCTED EMISSION LIMITS

Operating frequency band. In case the emission fall within the restricted band specified on Part 15.207 limit in the table below has to be followed.

EDEOLIENCY (MH-)	Class B	(dBuV)
FREQUENCY (MHz)	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	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

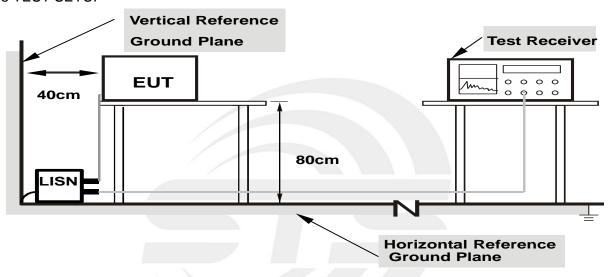
Receiver Parameters	Setting		
Attenuation	10 dB		
Start Frequency	0.15 MHz		
Stop Frequency	30 MHz		
IF Bandwidth	9 kHz		



3.2 TEST PROCEDURE

- a. 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.
- b. 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.
- c. 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.

3.3 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 from other units and other metal planes

3.4 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.



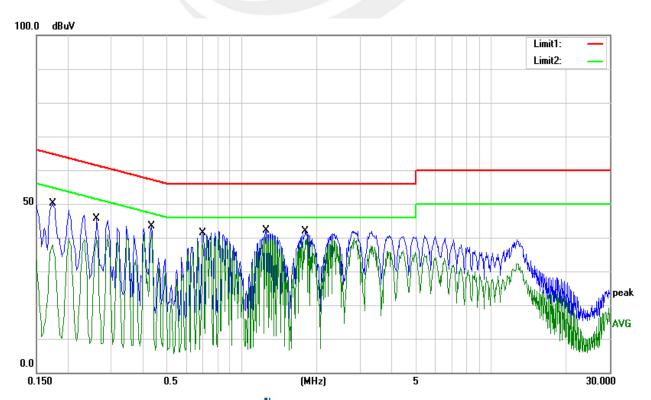
3.5TEST RESULTS

Temperature:	173 ()	Relative Humidity:	61%
Test Voltage:	AC 120V60Hz	Phase:	L
Test Mode:	Mode 1		

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV/m)	Margin (dB)	Detector
1	0.1740	40.29	9.79	50.08	64.77	-14.69	QP
2	0.1740	27.97	9.79	37.76	54.77	-17.01	AVG
3	0.2620	35.47	10.06	45.53	61.37	-15.84	QP
4	0.2620	30.13	10.06	40.19	51.37	-11.18	AVG
5	0.4340	33.45	10.03	43.48	57.18	-13.70	QP
6	0.4340	31.70	10.03	41.73	47.18	-5.45	AVG
7	0.6980	31.62	9.84	41.46	56.00	-14.54	QP
8	0.6980	28.03	9.84	37.87	46.00	-8.13	AVG
9	1.2500	32.35	9.80	42.15	56.00	-13.85	QP
10	1.2500	22.33	9.80	32.13	46.00	-13.87	AVG
11	1.8060	32.00	9.78	41.78	56.00	-14.22	QP
12	1.8060	26.83	9.78	36.61	46.00	-9.39	AVG

Remark:

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



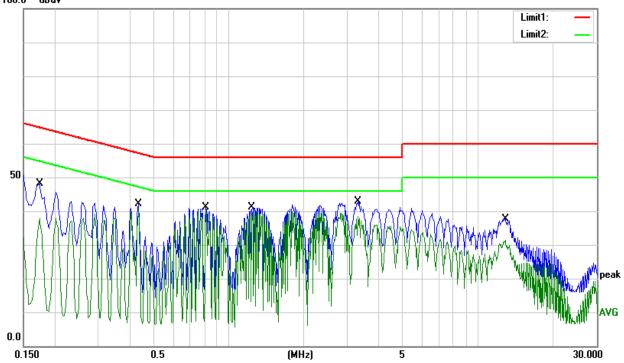


Temperature:	1/3 (Relative Humidity:	61%
Test Voltage:	AC 120V60Hz	Phase:	N
Test Mode:	Mode 1		

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV/m)	Margin (dB)	Detector
1	0.1740	38.30	9.79	48.09	64.77	-16.68	QP
2	0.1740	27.96	9.79	37.75	54.77	-17.02	AVG
3	0.4340	32.22	10.03	42.25	57.18	-14.93	QP
4	0.4340	30.60	10.03	40.63	47.18	-6.55	AVG
5	0.8100	31.41	9.83	41.24	56.00	-14.76	QP
6	0.8100	30.51	9.83	40.34	46.00	-5.66	AVG
7	1.2460	31.42	9.80	41.22	56.00	-14.78	QP
8	1.2460	30.07	9.80	39.87	46.00	-6.13	AVG
9	3.2980	33.16	9.82	42.98	56.00	-13.02	QP
10	3.2980	28.54	9.82	38.36	46.00	-7.64	AVG
11	12.8980	27.47	10.22	37.69	60.00	-22.31	QP
12	12.8980	21.14	10.22	31.36	50.00	-18.64	AVG

Remark:

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





4. RADIATED& FIELD EMISSION TEST RESULT(SECTIOU 15.209)

4.1 Limit

Frequency [MHz]	Field Strength [uV/m]	Measurement Distance [Meters]
0.009 ~ 0.490	2400/F (kHz)	300
0.490 ~ 1.705	24000/F (kHz)	30
1.705 ~ 30	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

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).

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

^{§ 15.209(}d)The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

4.2 TEST PROCEDURE

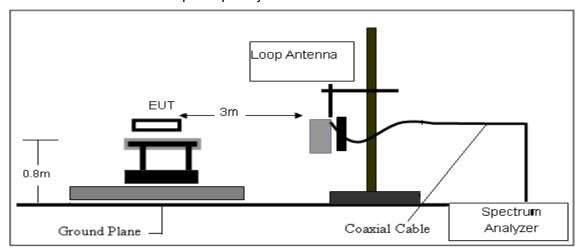
- a. The measuring distance of at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz.
- b. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- d. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- e. 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.

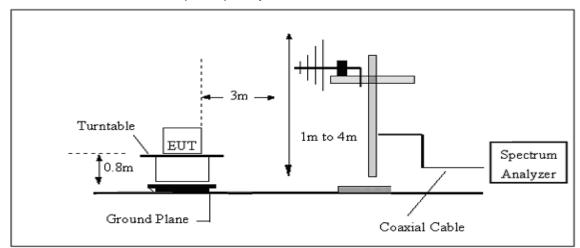


4.3 TEST SETUP

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



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



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4.4 TEST RESULTS

Temperature:	25 ℃	Relative Humidity:	50%
Test Voltage :	DC 5V	Test Mode :	TX Mode

4.4.1 Spurious Radiated Emission Below 30 MHz

Frequency	Reading	Detector	Ant. Factor	Cable	Emission	Limits	Margin
(KHz)	(dBµV)	(PK/QP/AV)	(dB/m)	Loss	Level (dBµV/m)	(dBµV/m)	(dB)
15	76.28	PK	26.27	0.1	102.65	144.08	-41.43
15	60.17	AV	26.27	0.1	86.54	124.08	-37.54
36	69.81	PK	22.03	0.1	91.94	136.48	-44.54
36	57.67	AV	22.03	0.1	79.80	116.48	-36.68
110	76.25	PK	10.04	0.1	86.39	126.78	-40.39
110	61.89	AV	10.04	0.1	72.03	106.78	-34.75
135.1	98.46	PK	9.43	0.1	107.99	124.99	-17.00
135.1	81.52	AV	9.43	0.1	91.05	104.99	-13.94
583	61.27	QP	1.13	0.1	62.50	72.29	-9.79
25431	58.39	QP	-18.05	0.9	41.24	69.54	-28.30

- 1. "*" Means Fundamental frequency
- 2. Emission Level [dB μ V/m] = Reading [dB μ V] + Ant. Factor [dB/m] + Cable Loss [dB]
- 3.Margin [dB] = Emission Level [dB μ V/m] Limit [dB μ V/m]
- 4.Limit calculation: Limit at specified distance + 40log (300/3) = Limit + 80 dB for up to 0.49 MHz Limit at specified distance + 40log (30/3) = Limit + 40 dB for above 0.49 MHz, Below 30 MHz



4.4.2 Spurious Radiated Emission below 1 GHz

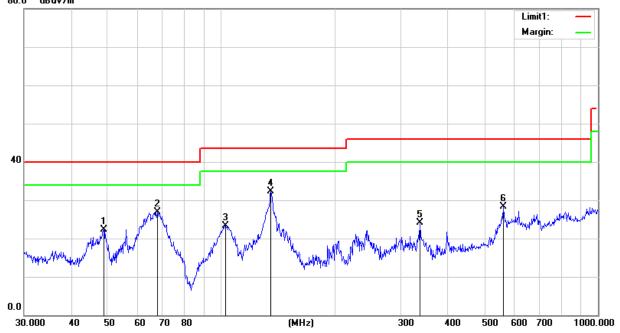
Temperature:	25.5 ℃	Relative Humidity:	62%
Test Voltage :	DC 5V	Test Mode :	Mode 1

The following table shows the highest levels of radiated emissions on polarizations of vertical

Frequency	Reading	Correct	Result	Limit	Margin	Remark
(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
48.8430	43.20	-20.89	22.31	40.00	-17.69	QP
67.9130	51.13	-24.15	26.98	40.00	-13.02	QP
102.7192	42.21	-18.96	23.25	43.50	-20.25	QP
135.5062	49.85	-17.52	32.33	43.50	-11.17	QP
337.2155	38.10	-14.04	24.06	46.00	-21.94	QP
560.6928	34.96	-6.57	28.39	46.00	-17.61	QP

Remark:

1. Margin = Result (Result = Reading + Factor)–Limit $80.0 \, dBuV/m$





Temperature:	25.5 ℃	Relative Humidity:	62%
Test Voltage :	DC 5V	Test Mode :	Mode 1

The following table shows the highest levels of radiated emissions on polarizations of horizontal

Frequency	Reading	Correct	Result	Limit	Margin	Remark
(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
38.2120	44.20	-15.40	28.80	40.00	-11.20	QP
62.6507	51.40	-24.28	27.12	40.00	-12.88	QP
135.5062	51.38	-17.52	33.86	43.50	-9.64	QP
227.6906	43.66	-18.63	25.03	46.00	-20.97	QP
550.9480	31.09	-6.76	24.33	46.00	-21.67	QP
986.0717	28.15	-0.12	28.03	54.00	-25.97	QP

Remark:

1. Margin = Result (Result = Reading + Factor)—Limit 80.0 dBuV/m





5. 20 DB BANDWIDTH TEST

5.1 Limit

FCC Part 2.1049, Only applicable to report.

5.2 TEST SETUP

Spectrum Parameter	Setting
Span Frequency	approximately 2 to 3 times the 20 dB bandwidth
RB	greater than 1 % of the 20 dB bandwidth,
VB	equal to the RBW
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

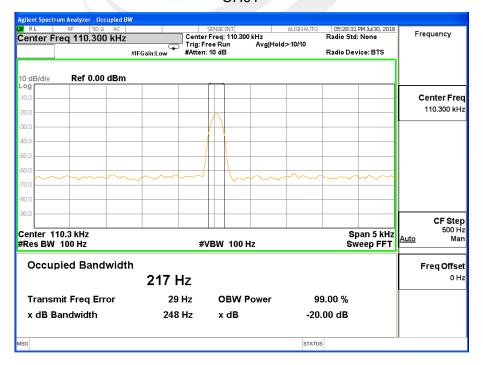
The test program and configuration, Refer to 4.2 and 4.3

5.3 TEST RESULTS

Mode 4

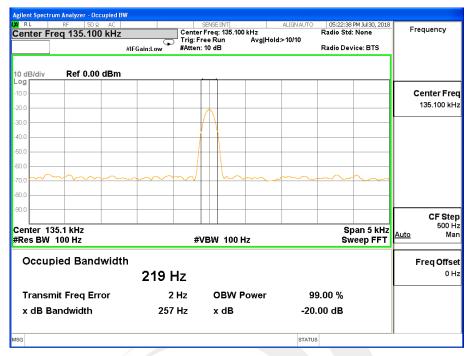
OperatingFrequency (kHz)	20 dB Bandwhidth(Hz)		
110.3	248		
135.1	257		
160.2	253		

CH01

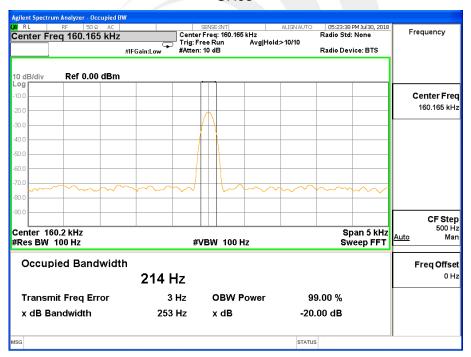




CH02



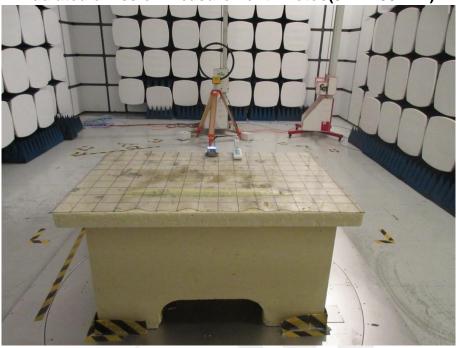
CH03





APPENDIX-PHOTOS OF TEST SETUP



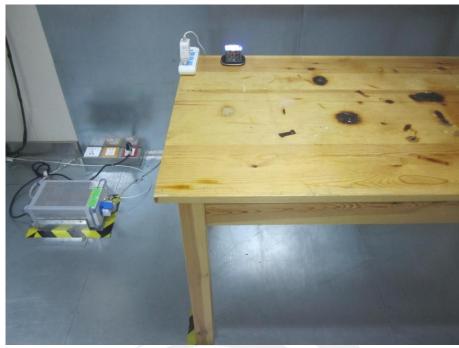


Radiated emission Measurement Photos(30MHz-1000MHz)





ConductionMeasurement Photos



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