





## **TEST REPORT**

Applicant	Flashbay Electronics
Address	Blgd b & C Xi Feng Cheng IND Zone, No.2 FuYuan Road He Ping, Village, FuYong Town ,ShenZhen

Manufacturer or Supplier	Flashbay Electronics	
Address	Blgd b & C Xi Feng Cheng IND Zone, No.2 FuYuan Road He Ping, Village, FuYong Town, ShenZhen	
Product	Power Bank	
Brand Name	N/A	
Model	Encore (EC)	
Additional Model & Model Difference	Journey(JY); See items 2.1	
Date of tests	Apr. 05, 2017 ~ Apr. 28, 2017	



The submitted sample of the above equipment has been tested for according to the requirements of the following standards:

#### 

#### CONCLUSION: The submitted sample was found to **COMPLY** with the test requirement

Tested by Ryan Lu Project Engineer / EMC Department	Approved by Chris Chen Manager / EMC Department
Ryan	Morris
	Date: May 16, 2017

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## **RELEASE CONTROL RECORD**

Issue No.	Description	Date Issued
CT170405N009	Original release	May 16, 2017

No. 34, Chenwulu Section, Guantai Rd., Houjie Town, Dongguan City, Guangdong 523942, China

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#### 1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

Emission			
Standard Test Item Result Remarks			
AS/NZS CISPR 32:	Conducted test	PASS	Meets limits minimum passing margin is -6.41 at 1.24214MHz
2015	Radiated emission 30-1000 MHz	PASS	Meets limits minimum passing margin is -4.74dB at 201.214MHz

#### 1.1 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

The listed uncertainties are the worst case uncertainty for the entire range of measurement. Please note that the uncertainty values are provided for informational purposes only and are not used in determining the PASS/FAIL results.

MEASUREMENT	FREQUENCY	UNCERTAINTY
Mains Terminal Disturbance Voltage Test	0.15MHz ~ 30MHz	+ /-2.70 dB
Radiated Disturbance Test	30MHz ~ 1000MHz	+ /-4.06 dB

#### 1.2 MODIFICATION RECORD

There were no modifications required for compliance.

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#### 2 GENERAL INFORMATION

#### 2.1 GENERAL DESCRIPTION OF EUT

PRODUCT	Power Bank	
TEST MODEL	Encore (EC)	
ADDITIONAL MODEL	Journey(JY)	
POWER SUPPLY	DC 5V from USB or DC 3.7V from Li-ion Battery	
DATA CABLE SUPPLIED	USB Cable: Unshielded, detachable, 1.2m, with one	
DATA CABLE SUPPLIED	core.	
HIGHEST OPERATION	Below 108MHz	
FREQUENCY	DEIUW TUOIVITIZ	

#### NOTE:

- 1. For the test results, the EUT had been tested with all conditions. But only the worst case was showed in test report.
- 2. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
- 3. Please refer to the EUT photo document (Reference No.: 170405N009) for detailed product photo.
- 4. Additional model Journey(JY) is identical with the test model Encore (EC) except the model name for trading purpose

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## 2.2 DESCRIPTION OF TEST MODES

The EUT was tested under the following modes' the final worst mode were marked in boldface and recorded in this report.

#### FOR CONDUCTED EMISSION TEST

Description of Test Mode	Test Voltage
Charging	DC 5V from USB

## FOR RADIATED EMISSIONS TEST (BELOW 1GHz)

Description of Test Mode	Test Voltage
Charging	DC 5V from USB
discharging	DC 3.7V from battery
Charging L discharging	DC 5V from USB & DC 3.7V from
Charging + discharging	battery

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#### 2.3 TEST PROGRAM USED AND OPERATION DESCRIPTIONS

- a. Turned on the power of all equipment.
- b. EUT was operated according to the type description in manufacturer's specifications or the User's Manual.

## 2.4 GENERAL DESCRIPTION OF APPLIED STANDARDS

According to the specifications of the manufacturers, the EUT must comply with the requirements of the following standards:

#### **AS/NZS CISPR 32:2015**

All applicable tests have been performed and recorded as per the above standards.

#### 2.5 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an dependent 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.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	Notebook	Lenovo	E430	MP-0DN27	N/A
2	Adapter	APPLE	A1457	N/A	N/A

NO.	DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	AC Line: Unshielded, Detachable 1.5m; DC Line: Unshielded, Detachable 1.5m
2	N/A

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#### CONDUCTED EMISSION FROM THE AC MAINS POWER PORT

#### 3.1 LIMITS

Frequency (MHz)	Class A	(dBuV)	Class B (dBuV)		
	Quasi-peak	Average	Quasi-peak	Average	
0.15 - 0.5	79	66	66 - 56	56 - 46	
0.50 - 5.0	73	60	56	46	
5.0 - 30.0	73	60	60	50	

Notes: 1. The lower limit shall apply at the transition frequencies.

#### 3.2 TEST INSTRUMENT

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESR7	101494	Apr. 05,17	Apr. 04,18
Artificial Mains Network	Rohde&Schwarz	ENV216	101173	Mar. 06,17	Mar. 05,18
Artificial Mains Network	Rohde&Schwarz	ESH3-Z5	100317	Apr. 05,17	Apr. 04,18
Voltage probe	SCHWARZBECK	TK 9421	TK 9421-176	Jan. 04,17	Jan. 03,18
Test software	ADT	ADT_Cond _V7.3.7	N/A	N/A	N/A

NOTE: 1. The calibration interval of the above test instruments is 12 months. And the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.

2. The test was performed at Shielded Room 553.

#### 3.3 TEST ARRANGEMENT

- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The test results of conducted emissions at mains ports are recorded of six worst margins for quasi-peak (mandatory) [and average (if necessary)] values against the limits at frequencies of interest unless the margin is 20 dB or greater.

Note: The resolution bandwidth and video bandwidth of test receiver is 9kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15MHz-30MHz.

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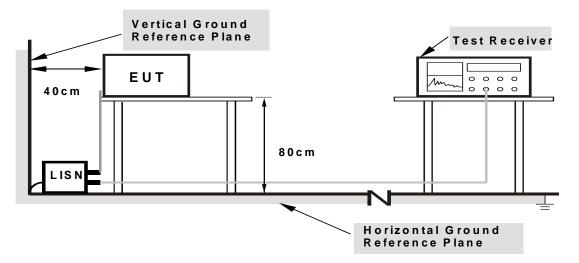
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<sup>2.</sup> The limit decreases linearly with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.



## 3.4 TEST SETUP



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

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

#### 3.5 SUPPLEMENTARY INFORMATION

N/A

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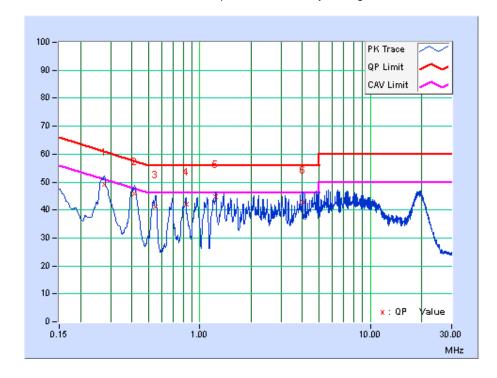


#### 3.6 TEST RESULTS

TEST MODE	Charging	6DB BANDWIDTH	9 kHz
TEST VOLTAGE	DC 5V from USB	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	25deg.C, 43% RH	TESTED BY	Yang

No.	Freq. [MHz]	Corr. Factor (dB)		teading Value   Emission Level   [dB (uV)]				Margin (dB)		
Cab	(ub)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	
1	0.27578	10.22	38.98	30.60	49.20	40.82	60.94	50.94	-11.74	-10.12
2	0.41414	10.22	35.51	30.78	45.73	41.00	57.56	47.56	-11.83	-6.56
3	0.54934	10.22	30.71	27.38	40.93	37.60	56.00	46.00	-15.07	-8.40
4	0.82933	10.23	31.71	26.35	41.94	36.58	56.00	46.00	-14.06	-9.42
5	1.24214	10.22	34.53	29.37	44.75	39.59	56.00	46.00	-11.25	-6.41
6	4.00425	10.22	32.40	25.35	42.62	35.57	56.00	46.00	-13.38	-10.43

**REMARKS:** The emission levels of other frequencies were very low against the limit.



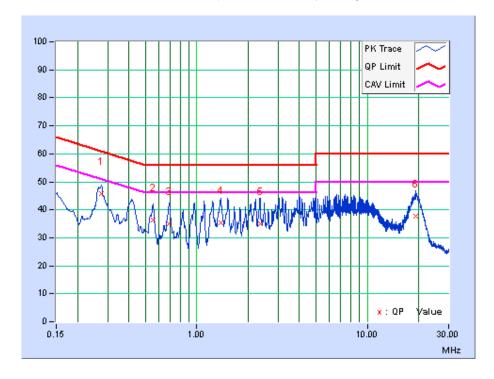
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TEST MODE	Charging	6DB BANDWIDTH	9 kHz
TEST VOLTAGE	DC 5V from USB	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	25deg.C, 43% RH	TESTED BY	Yang

No.	IMHZI		Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	
1	0.27578	10.01	35.62	20.86	45.63	30.87	60.94	50.94	-15.31	-20.07
2	0.55275	10.02	26.51	16.76	36.53	26.78	56.00	46.00	-19.47	-19.22
3	0.68938	10.02	25.01	14.24	35.03	24.26	56.00	46.00	-20.97	-21.74
4	1.38050	10.01	25.50	14.61	35.51	24.62	56.00	46.00	-20.49	-21.38
5	2.35324	10.02	24.98	14.65	35.00	24.67	56.00	46.00	-21.00	-21.33
6	19.19400	10.14	27.65	17.82	37.79	27.96	60.00	50.00	-22.21	-22.04

**REMARKS:** The emission levels of other frequencies were very low against the limit.



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## 4 RADIATED EMISSION MEASUREMENT

#### 4.1 LIMITS

## **4.2 OF RADIATED EMISSION MEASUREMENT**

## FOR FREQUENCY BELOW 1000 MHz

FREQUENCY	Class A (at 10m)	Class B (at 10m)		
(MHz)	Quasi-Peak dBuV/m	Quasi-Peak dBuV/m		
30 – 230	40	30		
230 – 1000	47	37		

FREQUENCY	Class A (at 3m)	Class B (at 3m)		
(MHz)	Quasi-Peak dBuV/m	Quasi-Peak dBuV/m		
30 – 230	50	40		
230 – 1000	57	47		

## For FM receivers

Distance (m)	Source	Frequency Range	Limits dB (uV/m)		
(111)		(MHz)	Quasi-pe	ak	
	Local oscillator	≤1000	Fundamental	50	
		30 to 300	Harmonics	42	
10		300 to 1000	Harmonics	46	
	Other	30 to 230		30	
		230 to 1000		37	
	Local oscillator	≤1000	Fundamental	60	
		30 to 300	Harmonics	52	
3		300 to 1000	Harmonics	56	
	Other	30 to 230		40	
		230 to 1000		47	

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Bureau Veritas Shenzhen Co., Ltd.



# 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 108	1000
108 – 500	2000
500 – 1000	5000
	Up to 5 times of the highest
Above 1000	frequency or 6 GHz, whichever is
	less

## FOR FREQUENCY ABOVE 1000 MHz

EDECLIENCY (CU-)	Class A (dBu	ıV/m) (at 3m)	Class B (dBuV/m) (at 3m)		
FREQUENCY (GHz)	PEAK	AVERAGE	PEAK	AVERAGE	
1 to 3	76	56	70	50	
3 to 6	80	60	74	54	

**NOTE:** 1. The lower limit shall apply at the transition frequencies.

- 2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
- 3. All emanation from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

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## 4.3 TEST INSTRUMENTS

#### FREQUENCY RANGE BELOW 1GHz

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESR7	101564	Feb. 27,17	Feb. 26,18
EMI Test Receiver	Rohde&Schwarz	ESCI	101418	Feb. 27,17	Feb. 26,18
Trilog-Broadband Antenna	SCHWARZBECK	VULB 9168	9168-555	Nov. 13, 16	Nov. 12, 17
Trilog-Broadband Antenna	SCHWARZBECK	VULB 9168	9168-554	Dec. 17, 16	Dec. 16, 17
Signal Amplifier	Agilent	8447D	2944A10488	Jun. 25,16	Jun. 24,17
Signal Amplifier	Agilent	8447D	2944A11174	Jun. 25,16	Jun. 24,17
10m Semi-anechoic Chamber	CHANGLING	21.4m*12.1m* 8.8m		Mar. 06,17	Mar. 05,18
Test Software	ADT	ADT_Radiated _V8.7.07	N/A	N/A	N/A

NOTES: 1. The test was performed in 10m Chamber.

2. The calibration interval of the above test instruments is 12 and 24 months. And the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.

#### FREQUENCY RANGE ABOVE 1GHz

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Horn Antenna	ETS-Lindgren	3117	00085519	Dec. 30, 15	Dec. 29, 17
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170242	Mar. 15,17	Mar. 14,18
Signal and Spectrum Analyzer	Rohde&Schwarz FSV40 1010		101003	Apr. 05,17	Apr. 04,18
Broadband Preamplifier	SCHWARZBECK	BBV9718	266	Mar. 21,17	Mar. 20,18
Pre-Amplifier (100MHz-26.5GHz)	EMCI	EMC 012645	980077	May 04,16	May 03,17
Pre-Amplifier (18GHz-40GHz)	EMCI	EMC 184045	980102	Nov. 04,16	Nov. 03,17
Test Software	ADT	ADT_Radiated _V8.7.07	N/A	N/A	N/A

NOTES: 1. The test was performed in 10m Chamber.

2. The calibration interval of the above test instruments is 12 months. And the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.

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#### **4.4 TEST PROCEDURE**

## <Frequency Range below 1GHz>

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 10 meter semi-anechoic chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from 1 meter to 4 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.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1GHz.

#### NOTE:

- 1. The resolution bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
- 2. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
- 3. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) (if the raw value not contains the amplifier);
- 4. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) Amplifier Gain(dB) (if the raw value contains the amplifier).
- 5. Margin value = Emission level Limit value.

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## <Frequency Range above 1GHz>

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 10 meter 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.
- The test receiver/spectrum was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz.

#### NOTE:

- 1. The resolution bandwidth is 1MHz and video bandwidth of test receiver/spectrum analyzer is 3MHz for Peak detection at frequency above 1GHz. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz for Average detection (AV) at frequency above 1GHz.
- 2. For measurement of frequency above 1000 MHz, the EUT was set 3 meters away from the receiver antenna.
- 3. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
- 4. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) (if the raw value not contains the amplifier);
- 5. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) Amplifier Gain(dB) (if the raw value contains the amplifier).
- 6. Margin value = Emission level Limit value.

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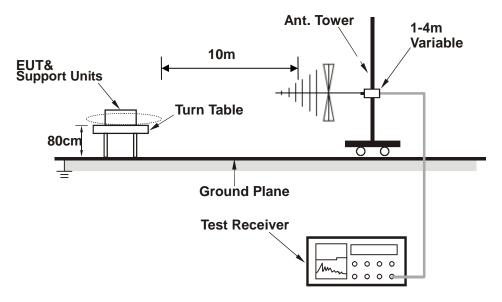
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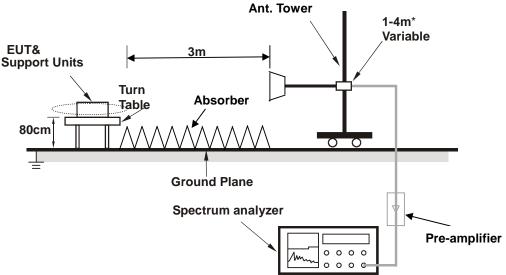


#### 4.5 TEST SETUP

## <Frequency Range below 1GHz>



## <Frequency Range above 1GHz>



\*: depends on the EUT height and the antenna 3dB beamwidth both, refer to section 7.3 of **CISPR 16-2-3** 

## 4.6 SUPPLEMENTARY INFORMATION

The more stringent measurement method of paragraph 8.3.2.2 in ANSI C63.4:2014 was applied for the test.

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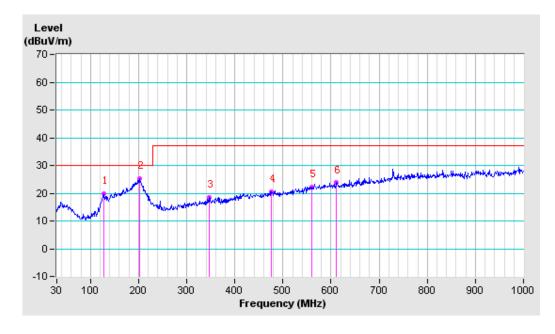
## 4.7 TEST RESULTS (BELOW 1G)

TEST MODE	Discharging				
FREQUENCY RANGE	30-1000MHz	DETECTOR FUNCTION & BANDWIDTH	Quasi-Peak, 120kHz		
ENVIRONMENTAL CONDITIONS	21deg. C, 54% RH	TESTED BY: Wang			

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 10 M								
Ero	Freq.	Correction	Raw	Emission	Limit	Margin	Antenna	Table
No.	No. (MHz)	Factor	Value	Level	(dBuV/m)	(dB)	Height	Angle
	(1011 12)	(dB/m)	(dBuV)	(dBuV/m)		(db) (d	(cm)	(Degree)
1	127.587	-11.23	31.10	19.87	30.00	-10.13	400	120
2	201.214	-11.56	36.82	25.26	30.00	-4.74	400	302
3	345.848	-6.77	25.23	18.46	37.00	-18.54	200	34
4	475.737	-4.46	24.97	20.51	37.00	-16.49	200	52
5	559.113	-2.58	24.93	22.35	37.00	-14.65	200	344
6	610.089	-1.21	24.96	23.75	37.00	-13.25	200	343

REMARKS: 1. Peak detector quick scan is showed on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.

- 2. Negative sign (-) in the margin column signify levels below the limit.
- 3. Frequency range scanned: 30MHz to 1000MHz.
- 4. Only emissions significantly above equipment noise floor are reported.



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5

6

-7.93

-6.69

-7.59

-5.67

TES	ST MODE		Discharging						
FREQUENCY RANGE			30-1000MHz		DETECTOR FUNCTION & BANDWIDTH		Quasi-Peak, 120kHz		
ENVIRONMENTAL CONDITIONS			21deg. C, 54	4% RH	TESTED BY: Wang				
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 10 M									
No.	Freq. (MHz)	Correction Factor (dB/m)	Value	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	
1	50.370	-7.72	26.31	18.59	30.00	-11.41	100	257	
2	130.880	-12.11	29.31	17.20	30.00	-12.80	300	274	

**REMARKS:** 1. Peak detector quick scan is showed on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.

30.00

37.00

37.00

37.00

-11.57

-19.00

-20.10

-17.23

100

100

300

300

136

357

319

43

2. Negative sign (-) in the margin column signify levels below the limit.

18.43

18.00

16.90

19.77

3. Frequency range scanned: 30MHz to 1000MHz.

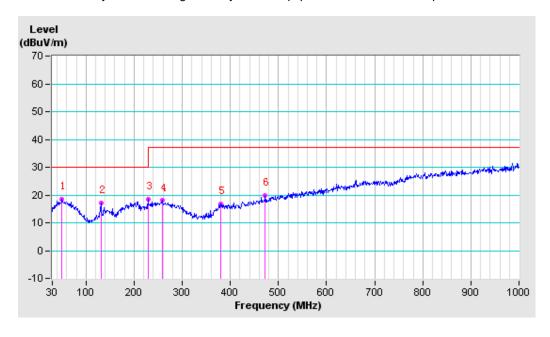
26.36

24.69

24.49

25.44

4. Only emissions significantly above equipment noise floor are reported.



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## 5 PHOTOGRAPHS OF THE TEST CONFIGURATION







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## 6 APPENDIX A – MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications were made to the EUT by the lab during the test.

**END** 

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