

FCC Test Report FCC ID: 2AR89-QP-8361B

Product: Qi Travel Power Bank

Trade Name: Gigastone

Model Number: QP-8361B

Serial Model: N/A

Report No.: \$18112700101E

Prepared for

Gigastone Corporation

12F, No. 480, Rueiguang Road NeihuDistrict, Taipei 114, Taiwan, R.O.C

Prepared by

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TEST RESULT CERTIFICATION

Applicant's name:	Gigastone	Corporation
Address:	12F, No. 4	80, Rueiguang Road NeihuDistrict,Taipei 114,Taiwan, R.O.C
Manufacturer's Name:	Gigastone	Corporation
Address:	12F, No. 4	80, Rueiguang Road NeihuDistrict, Taipei 114, Taiwan, R.O.C
Factory 's Name:	SHENZHE	EN HUANI ELECTRONIC CO.LTD
Address:	Area A, 4th Road, Lon	h Floor, Building 4, Longfu Industrial Zone, 397 Huarong nghua District, Shenzhen, China
Product description		
Product name:	Qi Travel F	Power Bank
Model and/or type reference :	QP-8361B	3
results show that the equipment un applicable only to the tested sample. This report shall not be reproduced Technology Co., Ltd., this documen Ltd., personnel only, and shall be not	KDB 6801 een tested I der test (El e identified except in f t may be al oted in the only to the	.10:2013 06 D01 RF Exposure Wireless Charging App v03 by Shenzhen NTEK Testing Technology Co., Ltd., and the test UT) is in compliance with the FCC requirements. And it is in the report. full, without the written approval of Shenzhen NTEK Testing ltered or revised by Shenzhen NTEK Testing Technology Co.,
Testing Engine	er :	Eileen Wu. (Eileen Liu)
Technical Man	ager :	Jason chen
		(Jason Chen)
Authorized Sig	natory:	San . Chen
		(Sam Chen)

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1. TEST SUMMARY

Test procedures according to the technical standards:

EMC Emission								
Standard Test Item FCC Rules Limit Judgment Rema								
	Conducted Emission	§15.207	Class B	PASS				
FCC part 15C:2018 ANSI C63.10:2013	Radiated Emission	§15.209	Class B	PASS				
	ANTENNA APPLICATION	§15.203	/	PASS				

NOTE:

- (1) 'N/A' denotes test is not applicable in this Test Report
- (2) For client's request and manual description, the test will not be executed.

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1.1 FACILITIES AND ACCREDITATIONS

All measurement facilities used to collect the measurement data are located at

1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen 518126 P.R. China.

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.10 and CISPR Publication 22.

1.2 LABORATORY ACCREDITATIONS AND LISTINGS

Site Description

CNAS-Lab. : The Laboratory has been assessed and proved to be in compliance with

CNAS-CL01:2006 (identical to ISO/IEC 17025:2005)

The Certificate Registration Number is L5516.

IC-Registration : The Certificate Registration Number is 9270A-1.

FCC- Accredited : Test Firm Registration Number: 463705.

Designation Number: CN1184

A2LA-Lab. : The Certificate Registration Number is 4298.01

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 General requirements for

the competence of testing and calibration laboratories.

This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009).

Name of Firm : Shenzhen NTEK Testing Technology Co., Ltd.

Site Location : 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang

Street, Bao'an District, Shenzhen 518126 P.R. China.

1.3 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%.

A. Conducted Measurement:

Test Site	Method	Measurement Frequency Range	U, (dB)	NOTE
NTEKC01	ANSI	150 KHz ~ 30MHz	3.2	

B. Radiated Measurement:

Test Site	Method	Measurement Frequency Range	U, (dB)	NOTE
NTEKA01	ANSI	30MHz ~ 1000MHz	4.7	
		1GHz ~12.4GHz	5.0	

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Revision History

Report No.	Version	Description	Issued Date
S18112700101E	Rev.01	Initial issue of report	27 Dec. 2018
		·	

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2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

	Product Feature and Specification				
Equipment	Qi Travel Power Bank				
Trade Name	Gigastone				
FCC ID	2AR89-QP-8361B				
Model No.	QP-8361B				
Serial Model	N/A				
Model Difference	N/A				
Operating Frequency	110.5kHz~150kHz				
Modulation Technique	Induction				
Antenna Type	Induction coil				
Power supply	Input 1: AC 100~240V, 50/60Hz, 0.5A; Input 2: Type-C PD3.0, 5V ===3A, 9V ===2A; Output 1: Type-C PD3.0, 5V ===3A, 9V ===2A, 12V ===1.5A; Output 2: USB-A QC3.0, 5V ===2.4A, 9V ===2A, 12V ===1.5A;				
Wireless Output	Battery: DC 3.7V, 8000mAh 10W				
HW Version	V1.0				
SW Version	V1.0				

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2.1.1 DESCRIPTION OF TEST MODES

EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

EUT Exercise

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

The following summary table is showing all test modes to demonstrate in compliance with the standard.

Test Cases					
Test Item Data Rate/ Modulation					
AC Conducted Emission	Mode 1: Max load*				
Radiated Test Cases	Mode 1: Max load				

(*)EUT can only access the specified load, can not adjust the size of the load

Carrier Frequency and Channel list:

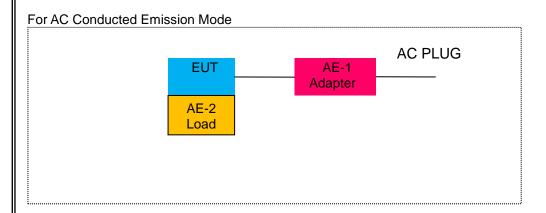
Channel	Frequency(MHz)
1	0.1105
2	0.127
3	0.150

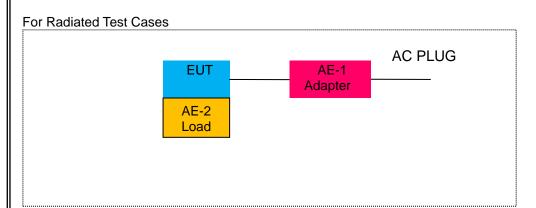
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2.2 DESCRIPTION OF TEST SETUP





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2.3 DESCRIPTION TEST PERIPHERAL AND EUT PERIPHERAL

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	Brand	Model/Type No.	Series No.	Note
AE-1	Adapter	HUAWEI	HW-059200CHQ	N/A	Peripherals
AE-2	Load	N/A	N/A	N/A	Peripherals

Item	Cable Type	Shielded Type	Ferrite Core	Length	Note

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" means "shielded" "with core"; "NO" means "unshielded" "without core".

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2.4 MEASUREMENT INSTRUMENTS LIST

Radiation Test equipment

	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibrati on period
1	Spectrum Analyzer	Aglient	E4407B	MY45108040	2018.05.19	2019.05.18	1 year
2	Spectrum Analyzer	Agilent	N9020A	MY49100060	2018.10.08	2019.10.07	1 year
4	Test Receiver	R&S	ESPI	101318	2018.05.19	2019.05.18	1 year
5	Bilog Antenna	TESEQ	CBL6111D	31216	2018.04.08	2019.04.07	1 year
6	50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2018.05.19	2019.05.18	1 year
7	Amplifier	EMC	EMC051835 SE	980246	2018.12.06	2019.12.05	1 year
8	Amplifier	MITEQ	TTA1840-35- HG	177156	2018.08.05	2019.08.04	1 year
9	Loop Antenna	ARA	PLA-1030/B	1029	2018.05.19	2019.05.18	1 year
10	Test Cable (9KHz-30MHz)	N/A	R-01	N/A	2017.04.21	2020.04.20	3 year
11	Test Cable (30MHz-1GHz)	N/A	R-02	N/A	2017.04.21	2020.04.20	3 year

Conduction Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Test Receiver	R&S	ESCI	101160	2018.05.19	2019.05.18	1 year
2	LISN	R&S	ENV216	101313	2018.04.18	2019.04.17	1 year
3	LISN	SCHWARZBE CK	NNLK 8129	8129245	2018.05.19	2019.05.18	1 year
4	50Ω Coaxial Switch	ANRITSU CORP	MP59B	6200983704	2018.05.19	2019.05.18	1 year
5	Test Cable (9KHz-30MH z)	N/A	C01	N/A	2017.04.21	2020.04.20	3 year
6	Test Cable (9KHz-30MH z)	N/A	C02	N/A	2017.04.21	2020.04.20	3 year
7	Test Cable (9KHz-30MH z)	N/A	C03	N/A	2017.04.21	2020.04.20	3 year

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3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION (Frequency Range 150KHz-30MHz)

	li	mit
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	

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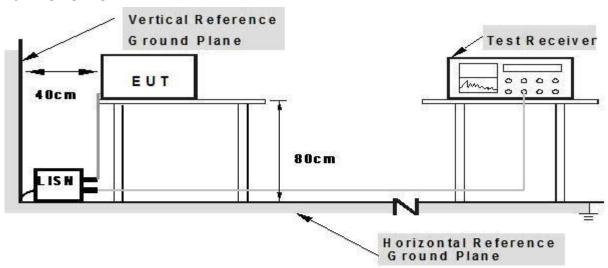




3.1.2 TEST PROCEDURE

- 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.

3.1.3 TEST SETUP



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

2.Both of LISMs (AMM) are 80 cm from EUT and at least 80 from other units and other metal planes

3.1.4 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of **2.3** Unless otherwise a special operating condition is specified in the follows during the testing.

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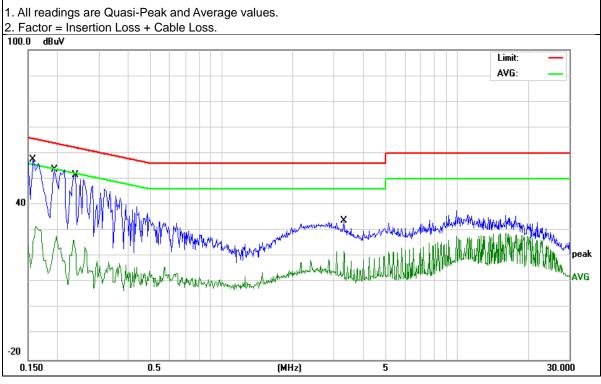


3.1.5 TEST RESULTS

EUT:	Qi Travel Power Bank	Model Name. :	QP-8361B	
Temperature:	26 ℃	Relative Humidity:	54%	
Pressure:	1010hPa	Test Date:	2018-12-10	
Test Mode:	Mode 1 Phase : N			
Test Voltage:	DC 5-9V from adapter AC 120V/60Hz			

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1580	47.82	9.74	57.56	65.56	-8.00	QP
0.1580	22.01	9.74	31.75	55.56	-23.81	AVG
0.1940	44.06	9.73	53.79	63.86	-10.07	QP
0.1940	18.07	9.73	27.80	53.86	-26.06	AVG
0.2379	41.72	9.74	51.46	62.17	-10.71	QP
0.2379	16.69	9.74	26.43	52.17	-25.74	AVG
3.3060	23.89	9.89	33.78	56.00	-22.22	QP
3.3060	12.12	9.89	22.01	46.00	-23.99	AVG

Remark:



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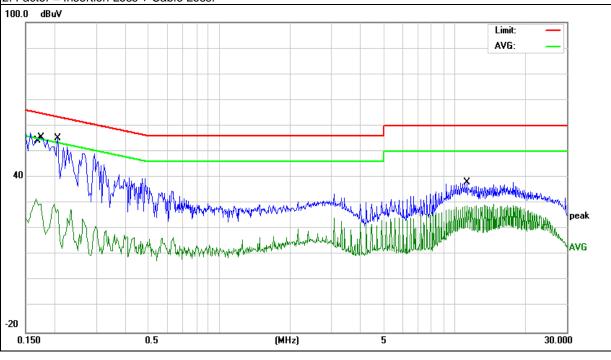


EUT:	Qi Travel Power Bank	Model Name. :	QP-8361B		
Temperature:	26 ℃	Relative Humidity:	54%		
Pressure:	1010hPa	Test Date:	2018-12-10		
Test Mode:	Mode 1 Phase : L				
Test Voltage:	DC 5-9V from adapter AC 120V/60Hz				

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1660	21.85	9.76	31.61	65.15	-33.54	QP
0.1660	21.85	9.76	31.61	55.15	-23.54	AVG
0.1739	45.73	9.76	55.49	64.77	-9.28	QP
0.1739	19.97	9.76	29.73	54.77	-25.04	AVG
0.2059	45.26	9.76	55.02	63.37	-8.35	QP
0.2059	42.08	9.76	51.84	53.37	-1.53	AVG
11.2898	27.91	10.04	37.95	60.00	-22.05	QP
11.2898	18.94	10.04	28.98	50.00	-21.02	AVG

Remark

- 1. All readings are Quasi-Peak and Average values.
- 2. Factor = Insertion Loss + Cable Loss.



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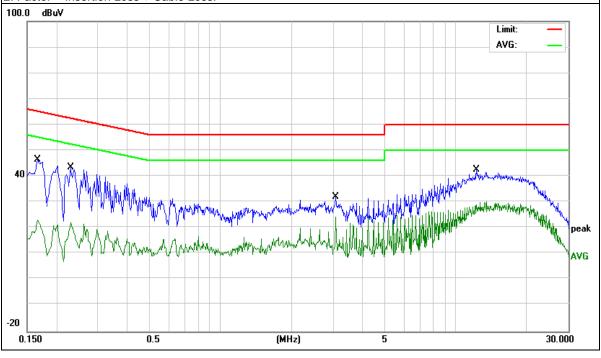


EUT:	Qi Travel Power Bank	Model Name. :	QP-8361B		
Temperature:	26 ℃	Relative Humidity:	54%		
Pressure:	1010hPa	Test Date:	2018-12-10		
Test Mode:	Mode 1 Phase : L				
Test Voltage:	DC 5-9V from adapter AC 240V/60Hz				

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1660	36.62	9.76	46.38	65.15	-18.77	QP
0.1660	13.43	9.76	23.19	55.15	-31.96	AVG
0.2300	33.72	9.76	43.48	62.45	-18.97	QP
0.2300	12.51	9.76	22.27	52.45	-30.18	AVG
3.0899	22.33	9.83	32.16	56.00	-23.84	QP
3.0899	14.39	9.83	24.22	46.00	-21.78	AVG
12.2339	32.49	10.05	42.54	60.00	-17.46	QP
12.2339	20.05	10.05	30.10	50.00	-19.90	AVG

Remark:

- 1. All readings are Quasi-Peak and Average values.
- 2. Factor = Insertion Loss + Cable Loss.



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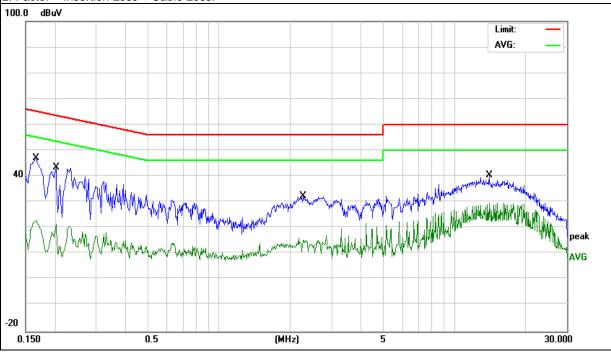


EUT:	Qi Travel Power Bank	Model Name. :	QP-8361B		
Temperature:	26 ℃	Relative Humidity:	54%		
Pressure:	1010hPa	Test Date:	2018-12-10		
Test Mode:	Mode 1(Normal link) Phase : N				
Test Voltage:	ge: DC 5-9V from adapter AC 240V/60Hz				

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1660	37.43	9.73	47.16	65.15	-17.99	QP
0.1660	13.22	9.73	22.95	55.15	-32.20	AVG
0.2020	33.70	9.73	43.43	63.52	-20.09	QP
0.2020	11.90	9.73	21.63	53.52	-31.89	AVG
2.2780	22.48	9.81	32.29	56.00	-23.71	QP
2.2780	6.22	9.81	16.03	46.00	-29.97	AVG
14.0178	30.27	10.09	40.36	60.00	-19.64	QP
14.0178	19.69	10.09	29.78	50.00	-20.22	AVG

Remark

- 1. All readings are Quasi-Peak and Average values.
- 2. Factor = Insertion Loss + Cable Loss.



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3.2 RADIATED EMISSION MEASUREMENT

3.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

The emissions from an intentional radiator shall not exceed the field strength levels specified in the following table 15.209(a):

Frequency (MHz)	Field strength (microvolts/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

15.205 Restricted bands of operation

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(²)
13.36-13.41			

Notes:

- (1) Measurement was performed at an antenna to the closed point of EUT distance of meters.
- (2) Emission level (dBuV/m)=20log Emission level (uV/m).
- (3) Only spurious frequency is permitted to locate within the Restricted Bands specified in provision of 15.205, and the emissions located in restricted bands also comply with 15.209 limit.
- (4) 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

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3.2.2 TEST PROCEDURE

Test Arrangement for Radiated Emissions up to 1 GHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at an accredited test facility. 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 antenna is a broadband antenna (Blow 30M, use loop antenna), and its height is varied from one meter to four 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.

Note: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for quasi-peak detection (QP) at frequency below 1GHz.

Test Arrangement for Radiated Emissions above 1 GHz.

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at an accredited 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.

During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

Use the following receiver/spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured

RBW=200Hz for 9KHz to 150KHz,

RBW=9kHz for 150KHz to 30MHz,

RBW=120KHz for 30MHz to 1GHz

VBW ≥ 3*RBW

Sweep = auto

Detector function = QP

Trace = max hold

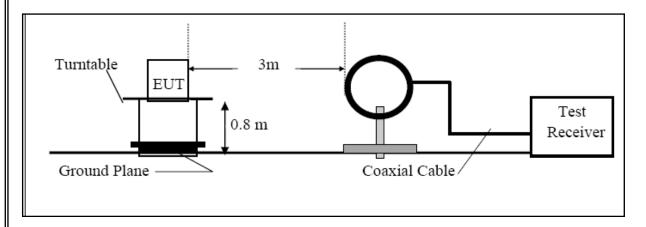
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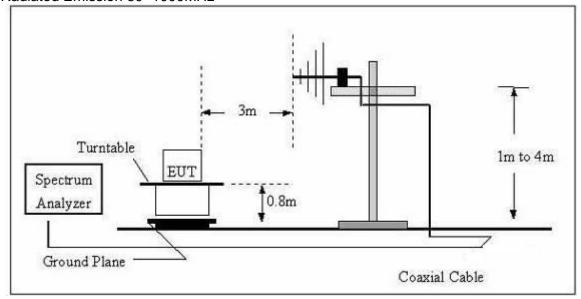


3.2.3 TEST SETUP

For Radiated Emission Test Set-Up, Frequency Below 30MHz



For Radiated Emission 30~1000MHz



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3.2.4 TEST RESULTS

TEST RESULTS (9KHz~30MHz)

EUT:	Qi Travel Power Bank	Model Name.:	QP-8361B
Temperature:	24 ℃	Relative Humidity:	54%
Pressure:	1010 hPa	Test Date :	2018-12-10
Test Mode :	Low frequency/Max Load	Polarization:	X
Test Power:	DC 3.7V		

Frequency	Ant.Pol.	Emissio	Limits	Margin	Remark
		n Level			
(MHz)		(dBuV/m)	(dBuV/m)	(dB)	
0.074	Χ	45.18	110.220	-65.04	Avg
0.110	Χ	43.92	106.776	-62.86	Avg
0.1105	Х	73.64	106.737	-33.10	Avg(fundamenta
0.1105	^	73.04	100.737	-33.10	I frequency)
0.925	Χ	41.15	68.281	-27.13	QP
2.521	Χ	43.82	69.542	-25.72	QP
11.369	Χ	39.67	69.542	-29.87	QP

Note:

Below 30MHz, Pre-test the X, Y, Z axis to find X axis is worst case, so only record X axis test data.

- X: Field strength which this device generates since the position of the charging coil and loop antenna differ by 0 degrees.
- Y: Field strength which this device generates since the position of the charging coil and loop antenna differ by 90 degrees.
- Z: Field strength which this device generates since the position of the charging coil and loop antenna differ by 180 degrees.

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EUT:	Qi Travel Power Bank	Model Name.:	QP-8361B
Temperature:	24 °C	Relative Humidity:	54%
Pressure:	1010 hPa	Test Date :	2018-12-10
Test Mode:	Mid frequency/Max Load	Polarization:	X
Test Power:	DC 3.7V	·	

Frequency	Ant.Pol.	Emission Level	Limits	Margin	Remark
(MHz)		(dBuV/m)	(dBuV/m)	(dB)	
0.127	Х	71.97	105.528	-33.56	Avg(fundamental frequency)
0.842	Χ	40.56	69.098	-28.54	QP
4.621	Χ	39.98	69.542	-29.56	QP
8.221	Χ	41.78	69.542	-27.76	QP
16.674	Χ	42.03	69.542	-27.51	QP

Note:

Below 30MHz, Pre-test the X, Y, Z axis to find X axis is worst case, so only record X axis test data.

- X: Field strength which this device generates since the position of the charging coil and loop antenna differ by 0 degrees.
- Y: Field strength which this device generates since the position of the charging coil and loop antenna differ by 90 degrees.
- Z: Field strength which this device generates since the position of the charging coil and loop antenna differ by 180 degrees.

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1010 hPa

Qi Travel Power Bank Model Name.: QP-8361B Relative Humidity: 24 ℃ Temperature: 54%

Test Date:

Report No.: S18112700101E

2018-12-10

Test Mode: High frequency/Max Load Polarization:

Test Power: DC 3.7V

Frequency	Ant.Pol.	Emission Level	Limits	Margin	Remark
(MHz)		(dBuV/m)	(dBuV/m)	(dB)	
0.091	Х	45.09	108.423	-63.33	Avg
0.150	Х	70.67	104.082	-33.41	Avg(fundamental frequency)
0.495	Х	41.61	73.712	-32.10	QP
5.623	Х	38.65	69.542	-30.89	QP
21.927	Х	35.56	69.542	-33.98	QP

Note:

EUT:

Pressure:

Below 30MHz, Pre-test the X, Y, Z axis to find X axis is worst case, so only record X axis test data.

- X: Field strength which this device generates since the position of the charging coil and loop antenna differ by 0 degrees.
- Y: Field strength which this device generates since the position of the charging coil and loop antenna differ by 90 degrees.
- Z: Field strength which this device generates since the position of the charging coil and loop antenna differ by 180 degrees.

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TEST RESULTS (30MHz ~1000MHz)

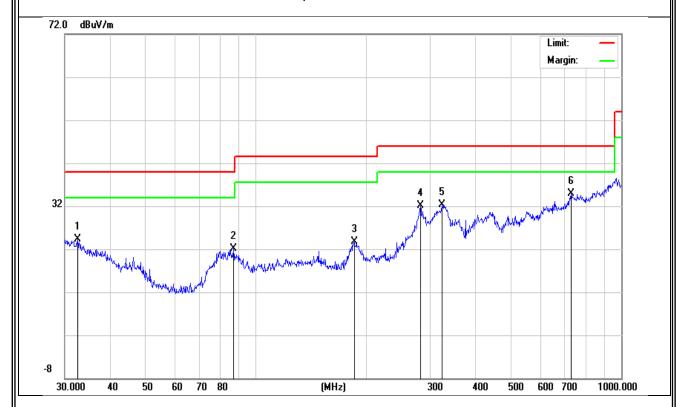
Note: The High/ Middle/ Low frequency mode has been tested. But the Low frequency mode is the worst mode, just reported the worst data.

EUT:	Qi Travel Power Bank	Model Name.:	QP-8361B		
Temperature:	24 °C	Relative Humidity:	54%		
Pressure:	1010 hPa	Test Date :	2018-12-10		
Test Mode:	Low frequency/Max Load Polarization : Horizontal				
Test Power:	DC 5-9V from adapter AC 120V/60Hz				

Polar (H/V) H H H H	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	remark
Н	32.5197	6.31	17.91	24.22	40.00	-15.78	QP
Н	86.8067	12.10	10.00	22.10	40.00	-17.90	QP
Н	185.7880	12.96	10.68	23.64	43.50	-19.86	QP
Н	281.9945	15.49	16.63	32.12	46.00	-13.88	QP
Н	323.3204	15.65	16.60	32.25	46.00	-13.75	QP
Н	729.3582	7.61	27.23	34.84	46.00	-11.16	QP

Remark:

Factor = Antenna Factor + Cable Loss - Amplifier.



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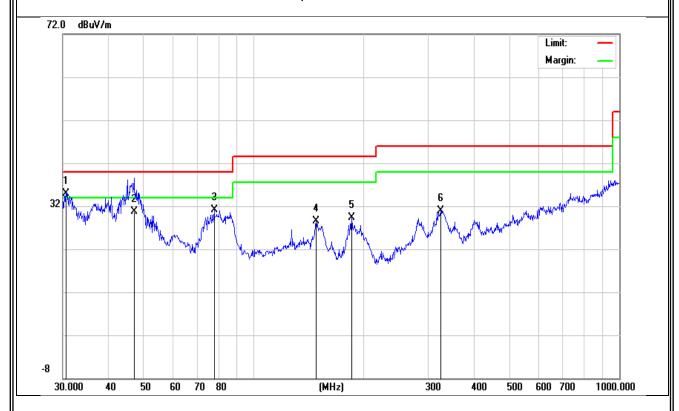


EUT:	Qi Travel Power Bank	Model Name. :	QP-8361B	
Temperature:	24 ℃	Relative Humidity:	54%	
Pressure:	1010 hPa	Test Date :	2018-12-10	
Test Mode :	Low frequency/Max Load Polarization : Vertical			
Test Power:	DC 5-9V from adapter AC 120V/60Hz			

Polar (H/V) V V V V V V	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	remark
V	30.6377	16.31	18.67	34.98	40.00	-5.02	QP
V	46.9948	19.42	11.28	30.70	40.00	-9.30	QP
V	77.8654	22.81	8.26	31.07	40.00	-8.93	QP
V	147.9214	15.66	12.93	28.59	43.50	-14.91	QP
V	185.1379	18.47	10.75	29.22	43.50	-14.28	QP
V	324.4561	14.26	16.63	30.89	46.00	-15.11	QP

Remark:

Factor = Antenna Factor + Cable Loss - Amplifier.



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4. BANDWIDTH TEST

4.1 TEST PROCEDURE

- 1). The transmitter output (antenna port) was connected to the spectrum analyzer in peak mode.
- 2). 20dB Bandwidth the resolution bandwidth of 1 kHz and the video bandwidth of 1 kHz were used.
- 3). Measured the spectrum width with power higher than 20dB below carrier.

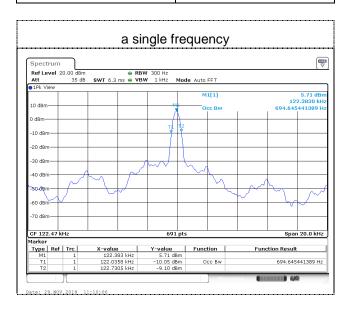
4.2 TEST SETUP



4.3 TEST RESULT

EUT:	Qi Travel Power Bank	Model Name. :	QP-8361B	
Temperature:	24 ℃	Relative Humidity:	54%	
Pressure:	1010 hPa Test Mode : Operating maxload			
Test Power:	est Power: DC 5-9V from adapter AC 120V/60Hz			

Center Frequency (kHz)	99% Bandwidth- a single frequency (Hz)
122.383	694.645



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5. ANTENNA APPLICATION

5.1 Antenna Requirement

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible partyshall be used with the device.

5.2 Result

Tha		Cantanna ia nai	rmanent attache	dontonno	It comply with	the etenderd	roquiromont
HIE	EUI	antenna is bei	maneni aliache	u antenna.	IL COMBIN WILL	the Standard	reduirement.

END REPORT

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