

FCC Test Report

Report No.: RF170614C22C

FCC ID: K7SF8M747V2

Test Model: F8M741

Series Model: F8M747V2

Received Date: Mar. 21, 2018

Test Date: Mar. 27 ~ Apr. 23, 2018

Issued Date: Apr. 23, 2018

Applicant: Belkin International., Inc

Address: 12045 East Waterfront Drive, Playa Vista, CA 90094

Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch

Lab Address: No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan,

R.O.C.

FCC Registration /

Designation Number: 198487 / TW2021





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Release Control Record

Issue No.	Description	Date Issued
RF170614C22C	Original release	Apr. 23, 2018

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1 Certificate of Conformity

Product: Wireless Charging Pad

Brand: belkin

Model No.: F8M741

Series Model: F8M747V2

Sample Status: Engineering sample

Applicant: Belkin International., Inc

Test Date: Mar. 27 ~ Apr. 23, 2018

Standards: 47 CFR FCC Part 15, Subpart C (Section 15.209)

ANSI C63.10: 2013

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

Prepared by : ________, Date: ________, Date: _________, Apr. 23, 2018

Annie Chang / Senior Specialist

Rex Lai / Associate Technical Manager



2 Summary of Test Results

47 CFR FCC Part 15, Subpart C (Section 15.209)				
FCC Clause	Test Item	Test Item Result Ren		
15.207	AC Power Conducted Emission	Pass	Meet the requirement of limit. Minimum passing margin is -5.94dB at 0.15781MHz.	
15.209	Radiated Emission Test	Pass	Meet the requirement of limit. Minimum passing margin is -7.81dB at 49.30MHz	

2.1 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:

Measurement	Frequency	Expanded Uncertainty (k=2) (±)
Conducted Emissions at mains ports	150kHz ~ 30MHz	2.77 dB
Radiated Emissions up to 1 GHz	9kHz ~ 30MHz	2.38 dB
Radiated Ethissions up to 1 GHz	30MHz ~ 1000MHz	5.54 dB
Radiated Emissions above 1 GHz	Above 1GHz	5.48 dB

2.2 Modification Record

There were no modifications required for compliance.



3 General Information

3.1 General Description of EUT

Product	Wireless Charging Pad	
Brand	belkin	
Test Model	F8M741	
Series Model	F8M747V2	
Model Difference	Refer to note as below	
Sample Status	Engineering sample	
Power Supply Rating	5Vdc (adapter / host)	
Modulation Type	FSK	
Operating Frequency	115-148kHz	
Antenna Type	Coil antenna	
Field Strength	97.01dBuV/m	
Dimensions	15.205cm ² (diameter = 44.0mm)	
Accessory Device	Wall charger	
Data Cable Supplied	2m shielded USB cable without core	
Maximum Power Output from the Charging Coil	Max Power Should be 5W	

Note:

1. The EUT is a wireless inductive charging coil for charging Phone.

2. All models are listed as below. The model: F8M741 was selected as a representative one and therefore only its test data was recorded in this report.

Brand	Model	Difference
belkin	F8M741	Wireless Charging Pad + Wall Charger + USB cable
belkin	F8M747V2	Wireless Charging Pad + USB cable

3. Model: F8M741 includes following device.

Item	Brand	Model	Specification
Wall charger	Ten Pao International Inc.	IS012CDU0500200	Input: 100-240Vac, 0.4A, 50/60Hz
			Output: 5Vdc, 2000mA

- 4. The EUT was pre-tested with the following modes:
- Charging Mode (Powered from Adapter)
- Charging Mode (Powered from Notebook)
- The worst emission level was found when the EUT tested under **Charging Mode (Powered from Adapter)**, therefore, only its test data was recorded in this report.



3.2 Description of Test Modes

The following frequency ranges are provided to this EUT:

Operating Frequency (kHz)	'	Mode
115-148	115	Charging Mode with Load
115-148	124	Charging Mode with iPhone
115-148	144	Standby Mode



3.2.1 Test Mode Applicability and Tested Channel Detail

Eut Configure	Applica	able To	Description	
Mode	RE<1G	PLC	Description	
Α	A 1 1 1		Charging Mode With Load (Powered from Adapter)	
В		\checkmark	Charging Mode With Load (Powered from Notebook)	
С	√ √		Charging Mode with iPhone (Powered from Adapter)	
D	D √ (Charging Mode with iPhone (Powered from Notebook)	
Е	E √ √ 5		Standby Mode (Powered from Adapter)	

Where RE<1G: Radiated Emission below 1GHz PLC: Power Line Conducted Emission

Radiated Emission Test (Below 1GHz):

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Operating Frequency (kHz)	Tested Frequency (kHz)
А	115-148	115
С	115-148	124
E	115-148	144

Power Line Conducted Emission Test:

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Operating Frequency (kHz)	Tested Frequency (kHz)
A, B	115-148	115
C, D	115-148	124
E	115-148	144

Test Condition:

Applicable To	EUT Configure Mode	Environmental Conditions	Input Power	Tested by
DE 40	А	21 deg. C, 81% RH	120Vac, 60Hz (Adapter)	James Wei
RE<1G	C, E	21 deg. C, 72% RH	120Vac, 60Hz (Adapter)	James Wei
DI C	A, C, E	25 deg. C, 75% RH	120Vac, 60Hz (Adapter)	lan Chang
PLC	B, D	25 deg. C, 75% RH	120Vac, 60Hz (System)	lan Chang

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3.3 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.

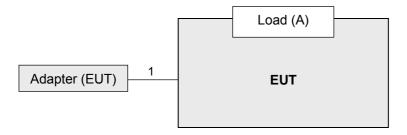
ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A.	Load	NA	NA	NA	NA	Provided by manufacturer
B.	iPhone X	Apple	A1901	NA	BCG-E3175A	Provided by manufacturer
C.	Notebook	Lenovo	80WG	YD01YRC9	FCC DoC Approved	Provided by Lab

ID	Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	USB cable	1	2	Y	0	Supplied by client

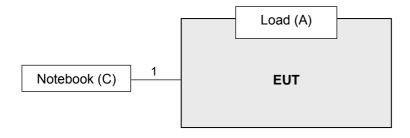
Note: The core(s) is(are) originally attached to the cable(s)

3.3.1 Configuration of System under Test

Test Mode A:



Test Mode B:

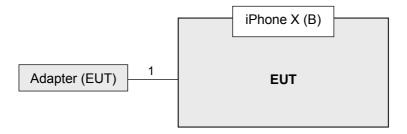


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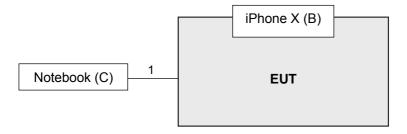
Reference No.: 180321C10



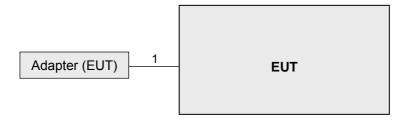
Test Mode C:



Test Mode D:



Test Mode E:





3.4 **General Description of Applied Standards** The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards: FCC Part 15, Subpart C (15.209) ANSI C63.10-2013 All test items have been performed and recorded as per the above standards.

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4 Test Types and Results

4.1 Radiated Emission and Bandedge Measurement

4.1.1 Limits of Radiated Emission and Bandedge Measurement

For Frequency Below 30MHz

Frequency (MHz)	Field Streng	yth (dBuV/m)	Measurement Distance
	uV/m	dBuV/m	(meters)
0.009 - 0.490	2400 / F (kHz)	48.52-13.80	300
0.490 – 1.705	24000 / F (kHz)	33.80-22.97	30
1.705 – 30.0	30	29.54	30

For Frequency Between 30-1000MHz

Frequency	Class A	(at 10m)	Class B (at 3m)		
(MHz)	uV/m	dBuV/m	uV/m	dBuV/m	
30-88	90	39.1	100	40.0	
88-216	150	43.5	150	43.5	
216-960	210	46.4	200	46.0	
Above 960	300	49.5	500	54.0	

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4.1.2 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due	
HP Preamplifier	8447D	2432A03504	Feb. 21, 2018	Feb. 20, 2019	
HP Preamplifier	8449B	3008A01201	Feb. 22, 2018	Feb. 21, 2019	
MITEQ Preamplifier	AMF-6F-260400-33-8P	892164	Feb. 21, 2018	Feb. 20, 2019	
Agilent TEST RECEIVER	N9038A	MY51210129	Feb. 6, 2018	Feb. 5, 2019	
Schwarzbeck Antenna	VULB 9168	139	Nov. 29, 2017	Nov. 28, 2018	
Schwarzbeck Antenna	VHBA 9123	480	May 19, 2017	May 18, 2019	
Schwarzbeck Horn Antenna	BBHA-9170	212	Dec. 1, 2017	Nov. 30, 2018	
Schwarzbeck Horn Antenna	BBHA 9120-D1	D130	Dec. 1, 2017	Nov. 30, 2018	
ADT. Turn Table	TT100	0306	NA	NA	
ADT. Tower	AT100	0306	NA	NA	
Software	Radiated_V7.6.15.9.5	NA	NA	NA	
SUHNER RF cable	SF104	CABLE-CH6	Aug. 14, 2017	Aug. 13, 2018	
With 4dB PAD	SF 104	CABLE-CHO	Aug. 14, 2017	Aug. 13, 2016	
SUHNER RF cable	SF102	Cable-CH8-3.6m	Aug. 14, 2017	Aug. 13, 2018	
With 3dB PAD	OI 102	Cable-Ci 10-3.0III	Aug. 14, 2017	Aug. 13, 2016	
KEYSIGHT MIMO	U2021XA	U2021XA-001	May 31,2017	May 30,2018	
Powermeasurement Test set	02021701	02021701001	Way 51,2017	Way 50,2010	
KEYSIGHT	N9030A	MY54490260	Jul. 26, 2017	Jul. 25, 2018	
Spectrum Analyzer	11000071				
Loop Antenna EMCI	LPA600	270	Aug. 11, 2017	Aug. 10, 2019	
EMCO Horn Antenna	3115	00028257	Nov. 30, 2017	Nov. 29, 2018	
Highpass filter	WHK 3.1/18G-10SS	SN 8	NA	NA	
Wainwright Instruments	VVI IIC 3. 1/ 100-1000	514.0	INA	INA	
ROHDE & SCHWARZ	FSV40	101042	Sep. 29, 2017	Sep. 28, 2018	
Spectrum Analyzer	1 3 4 4 0	101042	Gep. 29, 2017	Зер. 20, 2010	
Anritsu Power Sensor	MA2411B	0738404	Apr. 24, 2017	Apr. 23, 2018	
Anritsu Power Meter	ML2495A	0842014	Apr. 24, 2017	Apr. 23, 2018	

NOTE: 1. The calibration interval of the above test instruments is 12/24 months. And the calibrations are traceable to NML/ROC and NIST/USA.

- 2. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
- 3. The test was performed in Chamber No. 6.
- 4. The Industry Canada Reference No. IC 7450E-6.



4.1.3 Test Procedures

For Radiated emission below 30MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 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.
- Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case 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.

Note:

 The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9kHz at frequency below 30MHz.

For Radiated emission above 30MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters (for below 1GHz) / 1.5 meters (for above 1GHz) above the ground at 3 meter chamber room for test. 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 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.
- 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 1 GHz.
- f. The test-receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Note:

- The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
- 2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is ≥ 1/T (Duty cycle < 98%) or 10Hz (Duty cycle ≥ 98%) for Average detection (AV) at frequency above 1GHz.
- 4. All modes of operation were investigated and the worst-case emissions are reported.

4.1.4 Deviation from Test Standard

No deviation.

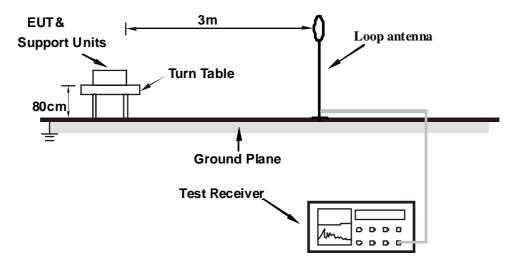
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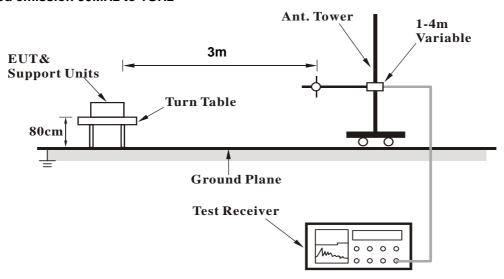


4.1.5 Test Set Up

For Radiated emission below 30MHz



For Radiated emission 30MHz to 1GHz



For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.1.6 EUT Operating Conditions

Test Mode A:

- a. The EUT powered by adapter.
- b. Put the Load on the EUT (wireless charging) during the test.

Test Mode C:

- c. The EUT powered by adapter.
- d. Put the iPhone X on the EUT (wireless charging) during the test.

Test Mode E:

a. The EUT powered by adapter.



4.1.7 Test Results

Below 30MHz Data:

Charging Mode

Test Frequency	115kHz	Detector Function	Ougoi Dook	
Frequency Range	9 kHz ~ 30 MHz	Detector Function	Quasi-Peak	
Test Mode	A			

	Antenna Polarity & Test Distance: Loop Antenna Open At 3m							
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*0.115	97.01 QP	106.39	-9.38	1.00 H	281	76.23	20.78
2	0.230	61.28 QP	100.37	-39.09	1.00 H	16	46.39	14.89
3	0.345	68.82 QP	96.85	-28.03	1.00 H	271	57.10	11.72
4	0.460	65.44 QP	94.35	-28.91	1.00 H	119	55.63	9.81
5	2.552	37.81 QP	69.54	-31.73	1.00 H	102	35.44	2.37
6	20.163	31.27 QP	69.54	-38.27	1.00 H	175	31.28	-0.01
		Antenn	a Polarity &	Test Distance	: Loop Anten	na Close At 3	Bm	
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*0.115	88.77 QP	106.39	-17.62	1.00 V	125	67.99	20.78
2	0.230	54.75 QP	100.37	-45.62	1.00 V	247	39.86	14.89
3	0.345	60.37 QP	96.85	-36.48	1.00 V	350	48.65	11.72
4	0.460	53.09 QP	94.35	-41.26	1.00 V	151	43.28	9.81
5	2.138	33.64 QP	69.54	-35.90	1.00 V	225	30.90	2.74
6	10.566	33.04 QP	69.54	-36.50	1.00 V	102	31.91	1.13
		Antenna Po	larity & Test I	Distance: Loc	p Antenna G	round-paralle	l At 3m	
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*0.115	90.45 QP	106.39	-15.94	1.00 H	227	69.67	20.78
2	0.230	56.23 QP	100.37	-44.14	1.00 H	143	41.34	14.89
3	0.345	61.64 QP	96.85	-35.21	1.00 H	64	49.92	11.72
4	0.450	55.03 QP	94.54	-39.51	1.00 H	164	45.10	9.93
5	2.408	33.93 QP	69.54	-35.61	1.00 H	112	31.43	2.50
6	8.376	31.67 QP	69.54	-37.87	1.00 H	63	30.34	1.33

Remarks:

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) Pre-Amplifier Factor(dB)
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission Level Limit value
- 5. " * ": Fundamental frequency.
- 6. Loop antenna was used for all radiated emission below 30MHz.
- 7. Limit @3m=Limit@300m+40log(300 / 3)=Limit@300m+80
- 8. Limit @3m=Limit@30m+40log(30 / 3)=Limit@30m+40

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Charging Mode

Test Frequency	124kHz	Datastas Eurotian	Ougoi Dogle	
Frequency Range	9 kHz ~ 30 MHz	Detector Function	Quasi-Peak	
Test Mode	С			

	Antenna Polarity & Test Distance: Loop Antenna Open At 3m							
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*0.124	85.93 QP	105.74	-19.81	1.00	238	70.73	15.20
2	0.248	51.46 QP	100.76	-49.30	1.00	301	41.29	10.17
3	0.372	57.16 QP	96.19	-39.03	1.00	360	51.03	6.13
4	0.496	39.72 QP	73.69	-33.97	1.00	260	35.41	4.31
5	8.257	27.93 QP	69.54	-41.61	1.00	102	31.58	-3.65
6	20.403	25.78 QP	69.54	-43.76	1.00	188	30.83	-5.05
,		Antenn	a Polarity &	Test Distance	: Loop Anten	na Close At 3	Bm	
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*0.124	77.60 QP	105.74	-28.14	1.00	320	62.40	15.20
2	0.248	51.43 QP	100.07	-48.64	1.00	293	41.84	9.59
3	0.373	53.89 QP	96.17	-42.28	1.00	232	47.79	6.10
4	0.476	42.21 QP	94.05	-51.84	1.00	142	37.65	4.56
5	2.978	26.84 QP	69.54	-42.70	1.00	285	29.87	-3.03
6	13.985	29.39 QP	69.54	-40.15	1.00	232	33.15	-3.76
		Antenna Po	larity & Test I	Distance: Loc	p Antenna G	round-paralle	l At 3m	
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*0.124	81.53 QP	105.74	-24.21	1.00	259	66.33	15.20
2	0.248	51.62 QP	100.76	-49.14	1.00	115	41.45	10.17
3	0.372	57.08 QP	96.19	-39.11	1.00	155	50.95	6.13
4	0.496	39.66 QP	73.69	-34.03	1.00	271	35.35	4.31
5	9.257	28.93 QP	69.54	-40.61	1.00	122	32.77	-3.84
6	18.203	27.78 QP	69.54	-41.76	1.00	235	32.70	-4.92

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) Pre-Amplifier Factor(dB)
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission Level Limit value
- 5. " * ": Fundamental frequency.
- 6. Loop antenna was used for all radiated emission below 30MHz.
- 7. Limit @3m=Limit@300m+40log(300 / 3)=Limit@300m+80
- 8. Limit @3m=Limit@30m+40log(30 / 3)=Limit@30m+40



Standby Mode

Test Frequency	144kHz	Data stan Evration	Ougoi Dogle	
Frequency Range	9 kHz ~ 30 MHz	Detector Function	Quasi-Peak	
Test Mode	Е			

	Antenna Polarity & Test Distance: Loop Antenna Open At 3m								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)	
1	*0.144	75.83 QP	104.44	-28.61	1.00	335	61.79	14.04	
2	0.288	48.83 QP	98.42	-49.59	1.00	174	40.82	8.01	
3	0.432	47.06 QP	94.89	-47.83	1.00	0	41.94	5.12	
4	0.562	36.85 QP	72.61	-35.76	1.00	47	33.34	3.51	
5	2.168	27.87 QP	69.54	-41.67	1.00	103	30.18	-2.31	
6	9.696	26.94 QP	69.54	-42.60	1.00	246	30.78	-3.84	
		Antenn	a Polarity & 7	Γest Distance	: Loop Anten	na Close At 3	3m		
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)	
1	*0.144	66.36 QP	104.44	-38.08	1.00	117	52.32	14.04	
2	0.288	47.82 QP	98.42	-50.60	1.00	53	39.81	8.01	
3	0.432	45.27 QP	94.89	-49.62	1.00	2	40.15	5.12	
4	0.576	39.81 QP	72.40	-32.59	1.00	200	36.47	3.34	
5	2.528	28.33 QP	69.54	-41.21	1.00	118	30.95	-2.62	
6	8.886	27.07 QP	69.54	-42.47	1.00	275	30.87	-3.80	
		Antenna Po	larity & Test I	Distance: Loc	p Antenna G	round-paralle	l At 3m		
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)	
1	*0.144	74.69 QP	104.44	-29.75	1.00	311	60.65	14.04	
2	0.288	48.82 QP	98.42	-49.60	1.00	284	40.81	8.01	
3	0.432	47.12 QP	94.89	-47.77	1.00	105	42.00	5.12	
4	0.562	36.58 QP	72.61	-36.03	1.00	66	33.07	3.51	
5	3.368	26.99 QP	69.54	-42.55	1.00	109	30.15	-3.16	
6	19.888	27.69 QP	69.54	-41.85	1.00	277	32.74	-5.05	

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) Pre-Amplifier Factor(dB)
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission Level Limit value
- 5. " * ": Fundamental frequency.
- 6. Loop antenna was used for all radiated emission below 30MHz.
- 7. Limit @3m=Limit@300m+40log(300 / 3)=Limit@300m+80
- 8. Limit @3m=Limit@30m+40log(30 / 3)=Limit@30m+40



Below 1GHz Data:

Charging Mode

Test Frequency	115kHz	Data stan Evration	Ougoi Dogle	
Frequency Range	30 MHz ~ 1GHz	Detector Function	Quasi-Peak	
Test Mode	A			

	Antenna Polarity & Test Distance: Horizontal At 3m									
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)		
1	84.03	28.38 QP	40.00	-11.62	1.52 H	288	40.68	-12.30		
2	177.97	32.96 QP	43.50	-10.54	1.19 H	114	40.82	-7.86		
3	528.56	29.43 QP	46.00	-16.57	1.15 H	272	29.88	-0.45		
4	716.55	33.22 QP	46.00	-12.78	2.02 H	44	30.15	3.07		
5	855.63	35.22 QP	46.00	-10.78	1.11 H	312	29.72	5.50		
6	912.52	36.87 QP	46.00	-9.13	1.02 H	275	30.29	6.58		
		,	Antenna Pola	rity & Test Di	stance: Verti	cal At 3m				
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)		
1	49.30	32.19 QP	40.00	-7.81	1.22 V	258	39.27	-7.08		
2	112.77	23.61 QP	43.50	-19.89	1.15 V	275	33.78	-10.17		
3	539.49	30.25 QP	46.00	-15.75	2.55 V	181	30.62	-0.37		
4	644.25	33.59 QP	46.00	-12.41	1.16 V	288	31.55	2.04		
5	855.27	34.07 QP	46.00	-11.93	2.01 V	244	28.56	5.51		
6	993.25	36.12 QP	54.00	-17.88	1.02 V	227	28.56	7.56		

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission Level Limit value



Test Frequency	124kHz	Detector Function	Ougai Dogle	
Frequency Range	30 MHz ~ 1GHz	Detector Function	Quasi-Peak	
Test Mode	С			

	Antenna Polarity & Test Distance: Horizontal At 3m									
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)		
1	84.03	27.25 QP	40.00	-12.75	2.34 H	275	39.55	-12.30		
2	179.77	31.58 QP	43.50	-11.92	2.01 H	114	39.63	-8.05		
3	539.40	29.26 QP	46.00	-16.74	2.74 H	121	29.63	-0.37		
4	718.60	32.31 QP	46.00	-13.69	2.31 H	242	29.25	3.06		
5	844.56	32.85 QP	46.00	-13.15	1.25 H	340	27.72	5.13		
6	902.27	34.15 QP	46.00	-11.85	2.76 H	220	27.92	6.23		
		1	Antenna Pola	rity & Test Di	stance: Vertical At 3m					
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)		
1	49.30	31.82 QP	40.00	-8.18	1.01 V	66	38.90	-7.08		
2	179.77	24.69 QP	43.50	-18.81	2.22 V	58	32.74	-8.05		
3	539.49	31.47 QP	46.00	-14.53	2.71 V	351	31.84	-0.37		
4	715.84	33.30 QP	46.00	-12.70	2.10 V	73	30.24	3.06		
5	865.22	33.25 QP	46.00	-12.75	2.04 V	144	27.80	5.45		
6	990.25	35.45 QP	54.00	-18.55	1.43 V	103	27.81	7.64		

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission Level Limit value



Standby Mode

Test Frequency	144kHz	Detector Function	Ougoi Dook	
Frequency Range	30 MHz ~ 1GHz	Detector Function	Quasi-Peak	
Test Mode	Е			

		Aı	ntenna Polari	ty & Test Dis	tance: Horizo	ntal At 3m			
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)	
1	68.75	21.24 QP	40.00	-18.76	2.27 H	301	29.74	-8.50	
2	179.72	31.48 QP	43.50	-12.02	2.64 H	133	39.52	-8.04	
3	539.20	33.11 QP	46.00	-12.89	2.85 H	324	33.48	-0.37	
4	742.27	34.75 QP	46.00	-11.25	1.06 H	224	31.06	3.69	
5	851.69	34.34 QP	46.00	-11.66	2.95 H	103	28.95	5.39	
6	930.06	34.51 QP	46.00	-11.49	2.23 H	269	27.81	6.70	
		,	Antenna Pola	rity & Test Di	stance: Vertic	cal At 3m			
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)	
1	49.64	30.83 QP	40.00	-9.17	1.22 V	352	37.88	-7.05	
2	110.80	25.36 QP	43.50	-18.14	1.45 V	29	35.71	-10.35	
3	419.31	28.50 QP	46.00	-17.50	1.75 V	313	31.36	-2.86	
4	539.10	29.26 QP	46.00	-16.74	1.03 V	76	29.63	-0.37	
5	729.08	34.52 QP	46.00	-11.48	2.42 V	355	30.94	3.58	
6	850.91	33.00 QP	46.00	-13.00	1.98 V	38	27.63	5.37	

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission Level Limit value



4.2 Conducted Emission Measurement

4.2.1 Limits of Conducted Emission Measurement

Eroguepov (MHz)	Conducted Limit (dBuV)				
Frequency (MHz)	Quasi-peak	Average			
0.15 - 0.5	66 - 56	56 - 46			
0.50 - 5.0	56	46			
5.0 - 30.0	60	50			

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

2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

4.2.2 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
ROHDE & SCHWARZ TEST RECEIVER	ESCS 30	100292	Dec. 8, 2017	Dec. 7, 2018
ROHDE & SCHWARZ Artificial Mains Network (For EUT)	ENV216	101195	May 2, 2017	May 1, 2018
LISN With Adapter (for EUT)	AD10	C03Ada-002	May 2, 2017	May 1, 2018
EMCO L.I.S.N. (For peripherals)	3825/2	9504-2359	Jul. 25, 2017	Jul. 24, 2018
SCHWARZBECK Artificial Mains Network (For EUT)	NNLK8129	8129229	May 9, 2017	May 8, 2018
Software	Cond_V7.3.7.4	NA	NA	NA
RF cable (JYEBAO) With10dB PAD	5D-FB	Cable-C03.01	Sep. 19, 2017	Sep. 18, 2018
LYNICS Terminator (For EMCO LISN)	0900510	E1-01-300	Jan. 19, 2018	Jan. 18, 2019
LYNICS Terminator (For EMCO LISN)	0900510	E1-01-301	Jan. 19, 2018	Jan. 18, 2019
ROHDE & SCHWARZ Artificial Mains Network (For TV EUT)	ESH3-Z5	100220	Nov. 14, 2017	Nov. 13, 2018
LISN With Adapter (for TV EUT)	100220	N/A	Nov. 14, 2017	Nov. 13, 2018

Notes: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

2. The test was performed in Shielded Room No. 3.

4.2.3 Test Procedures

- 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 frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit 20dB) were not recorded.

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.

4.2.4 Deviation from Test Standard

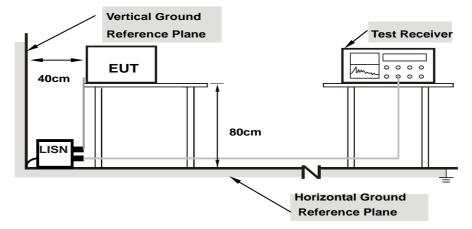
No deviation.

Report No.: RF170614C22C Page No. 22 / 35 Report Format Version: 6.1.1

Reference No.: 180321C10



4.2.5 Test Setup



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

For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.2.6 EUT Operating Conditions

Test Mode A:

- a. The EUT powered by adapter.
- b. Put the Load on the EUT (wireless charging) during the test.

Test Mode B:

- c. The EUT powered by Notebook.
- d. Put the Load on the EUT (wireless charging) during the test.

Test Mode C:

- e. The EUT powered by adapter.
- f. Put the iPhone X on the EUT (wireless charging) during the test.

Test Mode D:

- a. The EUT powered by Notebook.
- b. Put the iPhone X on the EUT (wireless charging) during the test.

Test Mode E:

a. The EUT powered by adapter.



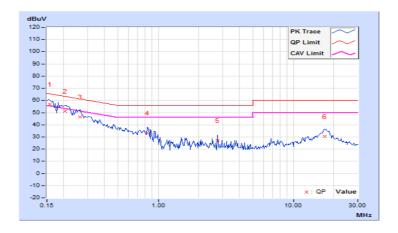
4.2.7 Test Results

Charging Mode

Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	A		

	Corr.		Reading Value		Emission Level		Limit		Margin	
No	Freq.	Factor	[dB ((uV)]	[dB ((uV)]	[dB ((uV)]	(d	B)
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15781	9.60	47.20	33.61	56.80	43.21	65.58	55.58	-8.78	-12.37
2	0.20469	9.62	41.64	27.71	51.26	37.33	63.42	53.42	-12.16	-16.09
3	0.26328	9.63	36.92	23.06	46.55	32.69	61.33	51.33	-14.78	-18.64
4	0.83359	9.71	23.62	12.10	33.33	21.81	56.00	46.00	-22.67	-24.19
5	2.75000	9.84	17.24	11.96	27.08	21.80	56.00	46.00	-28.92	-24.20
6	17.09766	10.17	20.42	13.78	30.59	23.95	60.00	50.00	-29.41	-26.05

- 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2. The emission levels of other frequencies were very low against the limit.
- 3. Margin value = Emission level Limit value
- 4. Correction factor = Insertion loss + Cable loss
- 5. Emission Level = Correction Factor + Reading Value.

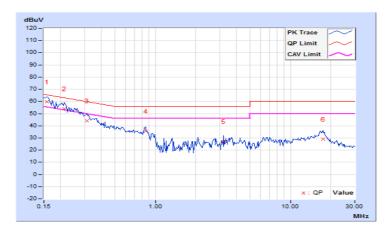




Phase	Neutral (N)	I DETECTOR FUNCTION	Quasi-Peak (QP) / Average (AV)
Test Mode	A		

	Corr.		Reading Value		Emissic	Emission Level		Limit		Margin	
No	Freq.	Factor	[dB	(uV)]	[dB ((uV)]	[dB ((uV)]	(d	B)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	
1	0.15781	9.76	49.88	35.73	59.64	45.49	65.58	55.58	-5.94	-10.09	
2	0.21250	9.78	44.09	29.49	53.87	39.27	63.11	53.11	-9.24	-13.84	
3	0.31406	9.79	34.44	20.44	44.23	30.23	59.86	49.86	-15.63	-19.63	
4	0.84922	9.86	25.86	14.25	35.72	24.11	56.00	46.00	-20.28	-21.89	
5	3.21094	10.01	17.15	11.83	27.16	21.84	56.00	46.00	-28.84	-24.16	
6	17.39063	10.36	18.82	7.09	29.18	17.45	60.00	50.00	-30.82	-32.55	

- 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2. The emission levels of other frequencies were very low against the limit.
- 3. Margin value = Emission level Limit value
- 4. Correction factor = Insertion loss + Cable loss
- 5. Emission Level = Correction Factor + Reading Value.

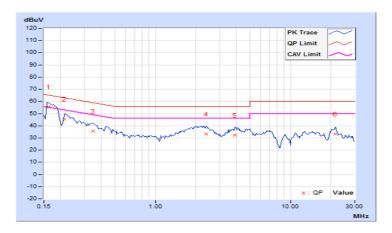




Phase	Line (L)	LI Jefector Flinction	Quasi-Peak (QP) / Average (AV)
Test Mode	В		

	Erog Corr.		Reading Value		Emissio	Emission Level		Limit		rgin
No	Freq.	Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16172	9.60	45.76	29.69	55.36	39.29	65.38	55.38	-10.02	-16.09
2	0.21250	9.62	35.83	17.42	45.45	27.04	63.11	53.11	-17.66	-26.07
3	0.34531	9.65	25.75	8.70	35.40	18.35	59.07	49.07	-23.67	-30.72
4	2.37500	9.83	23.52	17.46	33.35	27.29	56.00	46.00	-22.65	-18.71
5	3.90234	9.90	22.48	16.78	32.38	26.68	56.00	46.00	-23.62	-19.32
6	21.48828	10.21	23.03	18.17	33.24	28.38	60.00	50.00	-26.76	-21.62

- 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2. The emission levels of other frequencies were very low against the limit.
- 3. Margin value = Emission level Limit value
- 4. Correction factor = Insertion loss + Cable loss
- 5. Emission Level = Correction Factor + Reading Value.





Phase	Neutral (N)	LI DETECTOR FUNCTION	Quasi-Peak (QP) / Average (AV)
Test Mode	В		

	Erog Corr.		Reading Value		Emissio	Emission Level		Limit		Margin	
No	Freq.	Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)		
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	
1	0.15781	9.76	45.00	27.45	54.76	37.21	65.58	55.58	-10.82	-18.37	
2	0.20469	9.78	33.45	12.74	43.23	22.52	63.42	53.42	-20.19	-30.90	
3	0.36484	9.80	24.64	10.19	34.44	19.99	58.62	48.62	-24.18	-28.63	
4	2.14844	9.97	22.45	16.63	32.42	26.60	56.00	46.00	-23.58	-19.40	
5	4.44141	10.05	21.63	16.39	31.68	26.44	56.00	46.00	-24.32	-19.56	
6	6.85156	10.12	23.96	18.58	34.08	28.70	60.00	50.00	-25.92	-21.30	

- 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2. The emission levels of other frequencies were very low against the limit.
- 3. Margin value = Emission level Limit value
- 4. Correction factor = Insertion loss + Cable loss
- 5. Emission Level = Correction Factor + Reading Value.

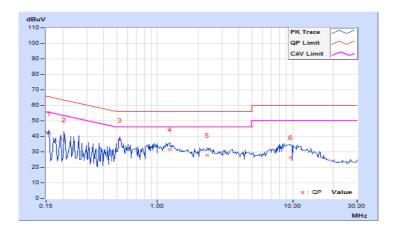




Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	С		

	Corr.		Reading Value		Emissio	Emission Level		Limit		Margin	
No	Freq.	Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)		
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	
1	0.15781	9.60	32.30	16.43	41.90	26.03	65.58	55.58	-23.68	-29.55	
2	0.20469	9.62	27.99	14.00	37.61	23.62	63.42	53.42	-25.81	-29.80	
3	0.52500	9.67	27.90	19.48	37.57	29.15	56.00	46.00	-18.43	-16.85	
4	1.23047	9.75	21.55	12.84	31.30	22.59	56.00	46.00	-24.70	-23.41	
5	2.34766	9.83	17.87	11.01	27.70	20.84	56.00	46.00	-28.30	-25.16	
6	9.69922	10.07	16.10	6.04	26.17	16.11	60.00	50.00	-33.83	-33.89	

- 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2. The emission levels of other frequencies were very low against the limit.
- 3. Margin value = Emission level Limit value
- 4. Correction factor = Insertion loss + Cable loss
- 5. Emission Level = Correction Factor + Reading Value.





Phase	Neutral (N)	LI Jefector Flinction	Quasi-Peak (QP) / Average (AV)
Test Mode	С		

	F		Reading Value		Emissio	Emission Level		Limit		Margin	
No	Freq.	Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)		
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	
1	0.16562	9.77	28.47	11.55	38.24	21.32	65.18	55.18	-26.94	-33.86	
2	0.29063	9.79	24.71	11.01	34.50	20.80	60.51	50.51	-26.01	-29.71	
3	0.51328	9.82	26.40	17.69	36.22	27.51	56.00	46.00	-19.78	-18.49	
4	1.24219	9.90	23.32	13.12	33.22	23.02	56.00	46.00	-22.78	-22.98	
5	3.47656	10.02	22.09	12.76	32.11	22.78	56.00	46.00	-23.89	-23.22	
6	8.18750	10.15	22.65	13.26	32.80	23.41	60.00	50.00	-27.20	-26.59	

- 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2. The emission levels of other frequencies were very low against the limit.
- 3. Margin value = Emission level Limit value
- 4. Correction factor = Insertion loss + Cable loss
- 5. Emission Level = Correction Factor + Reading Value.

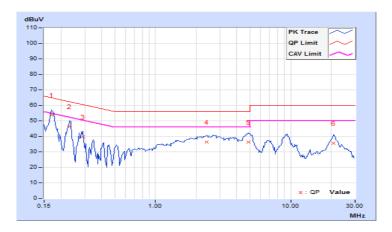




Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	D		

	Erog Corr.		Reading Value		Emissic	Emission Level		Limit		Margin	
No	Freq.	Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)		
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	
1	0.16953	9.61	44.02	27.84	53.63	37.45	64.98	54.98	-11.35	-17.53	
2	0.23203	9.63	36.76	24.03	46.39	33.66	62.38	52.38	-15.99	-18.72	
3	0.29063	9.64	30.16	20.29	39.80	29.93	60.51	50.51	-20.71	-20.58	
4	2.37891	9.83	26.47	19.59	36.30	29.42	56.00	46.00	-19.70	-16.58	
5	4.84766	9.93	26.42	20.25	36.35	30.18	56.00	46.00	-19.65	-15.82	
6	20.77344	10.21	25.48	20.75	35.69	30.96	60.00	50.00	-24.31	-19.04	

- 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2. The emission levels of other frequencies were very low against the limit.
- 3. Margin value = Emission level Limit value
- 4. Correction factor = Insertion loss + Cable loss
- 5. Emission Level = Correction Factor + Reading Value.





Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	D		

	Erog Corr.		Reading Value		Emissio	n Level	Limit		Mai	rgin
No	Freq.	Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16562	9.77	42.73	24.86	52.50	34.63	65.18	55.18	-12.68	-20.55
2	0.22031	9.78	33.68	14.72	43.46	24.50	62.81	52.81	-19.35	-28.31
3	0.40391	9.80	25.01	15.72	34.81	25.52	57.77	47.77	-22.96	-22.25
4	2.39844	9.98	27.36	20.88	37.34	30.86	56.00	46.00	-18.66	-15.14
5	3.90625	10.04	24.50	18.25	34.54	28.29	56.00	46.00	-21.46	-17.71
6	20.49219	10.43	32.08	27.40	42.51	37.83	60.00	50.00	-17.49	-12.17

- 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2. The emission levels of other frequencies were very low against the limit.
- 3. Margin value = Emission level Limit value
- 4. Correction factor = Insertion loss + Cable loss
- 5. Emission Level = Correction Factor + Reading Value.





Standby Mode

Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	E		

	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
No			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16172	9.60	15.87	0.40	25.47	10.00	65.38	55.38	-39.91	-45.38
2	0.34531	9.65	12.93	4.88	22.58	14.53	59.07	49.07	-36.49	-34.54
3	0.54063	9.68	21.33	14.73	31.01	24.41	56.00	46.00	-24.99	-21.59
4	1.51563	9.77	11.40	2.93	21.17	12.70	56.00	46.00	-34.83	-33.30
5	3.71484	9.89	5.54	1.72	15.43	11.61	56.00	46.00	-40.57	-34.39
6	26.21094	10.24	6.86	2.33	17.10	12.57	60.00	50.00	-42.90	-37.43

- 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2. The emission levels of other frequencies were very low against the limit.
- 3. Margin value = Emission level Limit value
- 4. Correction factor = Insertion loss + Cable loss
- 5. Emission Level = Correction Factor + Reading Value.





Phase	Neutral (N)	I DETECTOR FUNCTION	Quasi-Peak (QP) / Average (AV)
Test Mode	Е		

No	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.18125	9.77	14.83	0.83	24.60	10.60	64.43	54.43	-39.83	-43.83
2	0.53672	9.82	22.11	10.95	31.93	20.77	56.00	46.00	-24.07	-25.23
3	1.15625	9.89	16.95	6.01	26.84	15.90	56.00	46.00	-29.16	-30.10
4	2.01953	9.96	16.24	4.53	26.20	14.49	56.00	46.00	-29.80	-31.51
5	4.90625	10.06	13.10	1.98	23.16	12.04	56.00	46.00	-32.84	-33.96
6	8.71484	10.17	9.42	3.16	19.59	13.33	60.00	50.00	-40.41	-36.67

- 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2. The emission levels of other frequencies were very low against the limit.
- 3. Margin value = Emission level Limit value
- 4. Correction factor = Insertion loss + Cable loss
- 5. Emission Level = Correction Factor + Reading Value.





5 Pictures of Test Arrangements							
Please refer to the attached file (Test Setup Photo).							

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Appendix – Information on the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

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The address and road map of all our labs can be found in our web site also.

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