

FCC Test Report

Report No.: RF151027D11

FCC ID: UMB-5CT11A0

Test Model: 5CT11A0-000-0A

Received Date: Oct. 27, 2015

Test Date: Oct. 28 ~ Nov. 6, 2015

Issued Date: Nov. 11, 2015

Applicant: Foxconn Technology Co., Ltd.

Address: No.2, Ziyou St., Tucheng Dist., New Taipei City 236, Taiwan

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

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(R.O.C.)





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Release Control Record

Issue No.	Description	Date Issued
RF151027D11	Original release.	Nov. 11, 2015



1 Certificate of Conformity

Product: Wireless Charge

Test Model: 5CT11A0-000-0A

Sample Status: Engineering sample

Applicant: Foxconn Technology Co., Ltd.

Test Date: Oct. 28 ~ Nov. 6, 2015

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 EMC characteristics under the conditions specified in this report.

	- 1		1 16 000		
Prenared by ·	()	011.10	Charg	Date:	Nov 11 2015

Jessica Chang / Senior Specialist

Approved by: , **Date:** Nov. 11, 2015

Rex Lai / Assistant Manager



2 Summary of Test Results

	47 CFR FCC Part 15, Subpart C (SECTION 15.209)						
FCC Clause	Test Item	Result	Remarks				
15.207	AC Power Conducted Emission	PASS	Meet the requirement of limit. Minimum passing margin is -15.60 dB at 0.19034 MHz				
15.209	Radiated Emission Test	PASS	Meet the requirement of limit. Minimum passing margin is -8.90 dB at 191.65 MHz.				
	26dB bandwidth	PASS	Meet the requirement of limit.				

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	Expended Uncertainty (k=2) (±)
Conducted Emissions at mains ports	150kHz ~ 30MHz	2.78 dB
Radiated Emissions up to 30 MHz	9kHz ~ 30MHz	4.00 dB
Radiated Emissions up to 1 GHz	30MHz ~ 1000MHz	4.00 dB

2.2 Modification Record

There were no modifications required for compliance.



3 General Information

3.1 General Description of EUT

Product	Wireless Charge
Test Model	5CT11A0-000-0A
Status of EUT	Engineering sample
Power Supply Rating	5Vdc
Modulation Type	Load Modulation
Operating Frequency	110-250kHz
Tested Frequency	146kHz
Tested Channel	1
Antenna Type	Loop antenna
Antenna Connector	N/A
Accessory Device	N/A
Data Cable Supplied	Shielded USB cable (1.0m) with one core

Note:

1. The EUT has WPC (Wireless Power Consortium) technology.

2. The EUT uses following adapter

Brand	MASS POWER
Model	NBS12E050200VU
Input Power	100-240V, 0.3A, 50/60Hz (AC -2Pin)
Output Power	5V, 2A

3. The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.



3.2 Description of Test Modes

1 channel is provided to this EUT of tested:

Channel	Frequency (kHz)	
1	146	



3.2.1 Test Mode Applicability and Tested Channel Detail

EUT CONFIGURE		APPLICABLE TO		DESCRIPTION
MODE	RE<1G	PLC	ВМ	
Α	√ √		\checkmark	EUT charge to cell phone (EUT + Adapter)
В	-	- √		EUT charge to cell phone (EUT + Notebook)

Where

RE<1G: Radiated Emission below 1GHz

PLC: Power Line Conducted Emission

BM: 26dB Bandwidth Measurement

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	AVAILABLE CHANNEL	TESTED FREQUENCY	TESTED CHANNEL
А	110-250kHz	146kHz	1

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	CONFIGURE MODE AVAILABLE CHANNEL		TESTED CHANNEL
А	110-250kHz	146kHz	1
В	110-250kHz	146kHz	1

26dB Bandwidth Measurement:

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	AVAILABLE CHANNEL	TESTED FREQUENCY	TESTED CHANNEL
А	110-250kHz	146kHz	1

Test Condition:

APPLICABLE TO	EUT CONFIGURE MODE	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
DI O	А	27deg. C, 81% RH	120Vac, 60Hz	Ian Chang
PLC	В	26deg. C, 82% RH	120Vac, 60Hz	Kobe Lu
RE<1G	А	24deg. C, 70% RH	120Vac, 60Hz	Aaron You
ВМ	А	24deg. C, 70% RH	120Vac, 60Hz	Aaron You



3.3 Description of Support Units

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
Α.	Cell phone	Samsung	GALAXY S2	N/A	N/A	Provided by Lab
В.	PERSONAL COMPUTER	DELL	VOSTRO 470	JWHKYBX	FCC DoC Approved	Provided by Lab
C.	USB Keyboard	BTC	5200U	G09302046360	E5XKB5122U	Provided by Lab
D.	USB Mouse	Microsoft	1113	9170514914095	FCC DoC Approved	Provided by Lab
E.	PRINTER	LEXMARK	Z33	03331652570	FCC DoC Approved	Provided by Lab
F.	USB 2.0 Hard Disk	BUFFALO	HD-LBU2	55519210502452	FCC DoC Approved	Provided by Lab
G.	24" LCD MONITOR	DELL	U2410	CN082WXD72872 0CC0UHL	FCC DoC Approved	Provided by Lab
Н.	Wireless Charger Receiver Module	N/A	5CR11A0-000-0A	N/A	N/A	Supplied by client

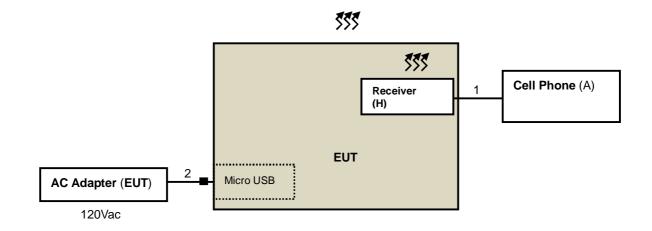
Note: All power cords of the above support units are non-shielded (1.8m).

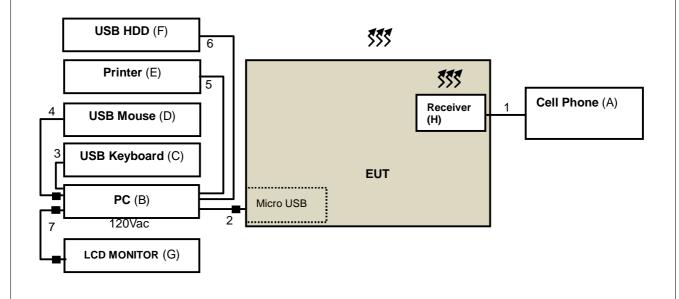
ID	Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	Micro USB cable	1	0.05	Υ	0	Supplied by client
2.	USB cable	1	1.0	Υ	1	Supplied by client
3.	USB cable	1	1.5	Y	0	Provided by Lab
4.	USB cable	1	1.8	Υ	1	Provided by Lab
5.	USB cable	1	1.8	Y	0	Provided by Lab
6.	USB cable	1	0.5	Y	0	Provided by Lab
7.	D-SUB cable	1	1.8	N	2	Provided by Lab

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



3.3.1 Configuration of System under Test







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.

NOTE: The EUT has been verified to comply with the requirements of FCC Part 15, Subpart B, Class B (DoC). The test report has been issued separately.



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	FIELD STREN	GTH (dBuV/m)	MEASUREMENT DISTANCE
(MHz)	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	



4.1.2 Test Instruments

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
HP Preamplifier	8447D	2432A03504	Feb. 26, 2015	Feb. 25, 2016
HP Preamplifier	8449B	3008A01201	Feb. 26, 2015	Feb. 25, 2016
MITEQ Preamplifier	AMF-6F-260400-3 3-8P	892164	Mar. 01, 2015	Feb. 28, 2016
Agilent Spectrum	E4446A	MY51100009	May 30, 2015	May 29, 2016
Agilent TEST RECEIVER	N9038A	MY51210129	Jan. 20, 2015	Jan. 19, 2016
Schwarzbeck Antenna	VULB 9168	139	Feb. 04, 2015	Feb. 03, 2016
Schwarzbeck Antenna	VHBA 9123	480	May 29, 2015	May 28, 2017
Schwarzbeck Horn Antenna	BBHA-9170	212	Feb. 09, 2015	Feb. 08, 2016
Schwarzbeck Horn Antenna	BBHA 9120-D1	D130	Feb. 10, 2015	Feb. 09, 2016
ADT. Turn Table	TT100	0306	NA	NA
ADT. Tower	AT100	0306	NA	NA
Software	Radiated_V7.6.15. 9.4	NA	NA	NA
SUHNER RF cable With 4dB PAD	SF104	CABLE-CH6	Aug. 15, 2015	Aug. 14, 2016
SUHNER RF cable With 3dB PAD	SF102	Cable-CH8-3.6m	Aug. 15, 2015	Aug. 14, 2016
Loop Antenna R & S	HFH2-Z2	100070	Mar. 06, 2014	Mar. 05, 2016

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.
- 5. The FCC Site Registration No. is 447212.



4.1.3 Test Procedures

- 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:

- 1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
- 2. All modes of operation were investigated and the worst-case emissions are reported.

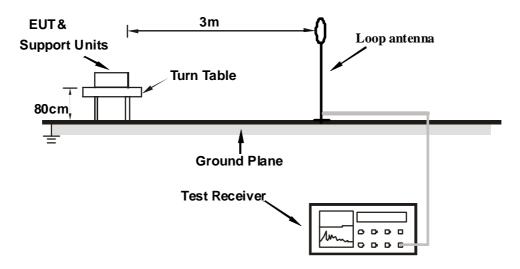
4 4 4	D	C	01
414	Deviation	from lest	Standard

No deviation.

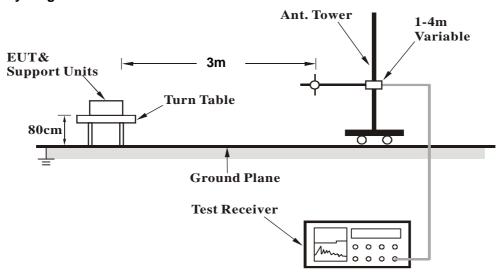


4.1.5 Test Set Up

For Frequency range 9kHz~30MHz



For Frequency range 30 ~ 1000MHz



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

4.1.6 EUT Operating Conditions

- a. Wireless Charge (EUT) is connected to the adapter.
- b. The Receiver is connected to the cell phone.
- c. The Receiver is placed on top of the Wireless Charge (EUT) and can start charging to cell phone.



4.1.7 Test Results

Below 30MHz Data:

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9 kHz ~ 30 MHz	TEST MODE	А

	TEST DISTANCE: AT 3 M (Open)							
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	*0.146	81.65 QP	104.32	-22.67	1.00	184	56.23	25.42
2	0.292	64.07 QP	98.30	-34.23	1.00	223	44.93	19.14
3	0.438	59.26 QP	94.77	-35.51	1.00	189	43.10	16.16
4	0.584	45.56 QP	72.28	-26.72	1.00	153	31.27	14.29
5	0.730	45.91 QP	70.34	-24.43	1.00	191	33.05	12.86
6	0.876	51.37 QP	68.75	-17.38	1.00	234	39.44	11.93

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.



CHANNEL	ITX Channel 1	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9 kHz ~ 30 MHz	TEST MODE	A

	TEST DISTANCE: AT 3 M (Close)							
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	*0.146	74.66 QP	104.32	-29.66	1.00	197	49.24	25.42
2	0.292	55.15 QP	98.30	-43.15	1.00	315	36.01	19.14
3	0.438	51.23 QP	94.77	-43.54	1.00	111	35.07	16.16
4	0.584	36.39 QP	72.28	-35.89	1.00	203	22.10	14.29
5	0.730	40.13 QP	70.34	-30.21	1.00	208	27.27	12.86
6	0.876	44.26 QP	68.75	-24.49	1.00	63	32.33	11.93

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.



Below 1GHz Data:

CHANNEL	ITX Channel 1	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz	TEST MODE	А

		ANTENNA	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							
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	59.00	24.33 QP	40.00	-15.67	4.00 H	72	33.32	-8.99		
2	145.96	28.94 QP	43.50	-14.56	4.00 H	236	37.64	-8.70		
3	191.65	34.60 QP	43.50	-8.90	3.55 H	266	45.53	-10.93		
4	257.03	27.57 QP	46.00	-18.43	2.84 H	216	36.03	-8.46		
5	333.08	29.71 QP	46.00	-16.29	2.27 H	192	35.84	-6.13		
6	820.94	32.78 QP	46.00	-13.22	1.00 H	238	29.79	2.99		
		ANTENNA	A POLARITY	/ & TEST DI	STANCE: V	ERTICAL A	T 3 M			
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	33.59	30.62 QP	40.00	-9.38	1.27 V	356	41.05	-10.43		
2	33.59 59.44	30.62 QP 30.46 QP	40.00 40.00	-9.38 -9.54	1.27 V 1.03 V	356 18	41.05 39.45	-10.43 -8.99		
\vdash										
2	59.44	30.46 QP	40.00	-9.54	1.03 V	18	39.45	-8.99		
2	59.44 114.34	30.46 QP 28.60 QP	40.00 43.50	-9.54 -14.90	1.03 V 1.00 V	18 118	39.45 40.38	-8.99 -11.78		

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



4.2 Conducted Emission Measurement

4.2.1 Limits of Conducted Emission Measurement

	Frequency (MHz)	Conducted Limit (dBuV)					
	Frequency (MHz)	Quasi-peak	Average				
	0.15 - 0.5	66 - 56	56 - 46				
	0.50 - 5.0	56	46				
Ī	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	100276	Apr. 01, 2015	Mar. 31, 2016
ROHDE & SCHWARZ				
Artificial Mains Network	ENV216	101197	Apr. 27, 2015	Apr. 26, 2016
(for EUT)				
LISN With Adapter	AD10	C10Ada-002	Apr 27 2015	Apr 26 2016
(for EUT)	ADTO	CTUAGA-002	Apr. 27, 2015	Apr. 26, 2016
ROHDE & SCHWARZ				
Artificial Mains Network	ESH3-Z5	100218	Nov. 25, 2014	Nov. 24, 2015
(for peripherals)				
SCHWARZBECK				
Artificial Mains Network (For	NNLK8129	8129229	May 06, 2015	May 05, 2016
EUT)				
Software	Cond_V7.3.7	NA	NA	NA
RF cable (JYEBAO) With 10dB PAD	5D-FB	Cable-C10.01	Feb. 17, 2015	Feb. 16, 2016
SUHNER Terminator				
(For ROHDE & SCHWARZ	65BNC-5001	E1-011484	May 19, 2015	May 18, 2016
LISN)				
ROHDE & SCHWARZ				
Artificial Mains Network (For	ESH3-Z5	100220	Nov. 20, 2014	Nov. 19, 2015
TV EUT)				
LISN With Adapter	100220	N/A	Nov. 20, 2014	Nov. 10, 2015
(for TV EUT)	100220		Nov. 20, 2014	Nov. 19, 2015

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. 10.
- 3. The VCCI Site Registration No. C-1852.



4.2.3 Test Procedures

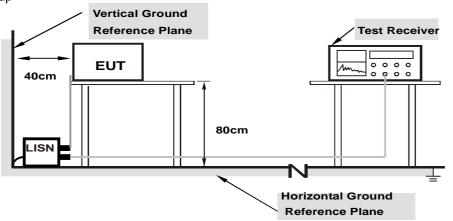
- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling 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) was 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.

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

Mode A

- d. Wireless Charge (EUT) is connected to the adapter.
- e. The Receiver is connected to the cell phone.
- f. The Receiver is placed on top of the Wireless Charge (EUT) and can start charging to cell phone.

Mode B

- a. Wireless Charge (EUT) is connected to the PC
- b. The Receiver is connected to the cell phone.
- c. The Receiver is placed on top of the Wireless Charge (EUT) and can start charging to cell phone.

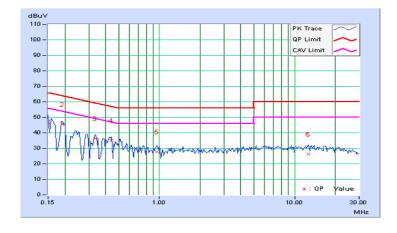


4.2.7 Test Results

Phase	Line 1	6dB Bandwidth	9kHz
Channel	1	Test Mode	Α

No	Frequency	Correction Factor		g Value suV)		on Level uV)	Lir (dB	nit uV)	Maı (d	gin B)
	(MHz)	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	9.67	37.31	25.48	46.98	35.15	66.00	56.00	-19.02	-20.85
2	0.19034	9.68	35.84	27.26	45.52	36.94	64.02	54.02	-18.50	-17.08
3	0.33359	9.69	26.45	18.44	36.14	28.13	59.36	49.36	-23.22	-21.23
4	0.43906	9.70	25.59	15.12	35.29	24.82	57.08	47.08	-21.79	-22.26
5	0.95859	9.76	18.02	10.61	27.78	20.37	56.00	46.00	-28.22	-25.63
6	12.68984	10.10	16.38	10.81	26.48	20.91	60.00	50.00	-33.52	-29.09

- 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

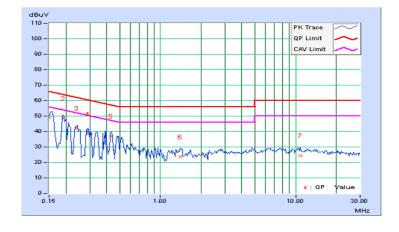




Phase	Line 2	6dB Bandwidth	9kHz
Channel	1	Test Mode	A

No	Frequency	Correction Factor		g Value suV)			Margin (dB)			
	(MHz)	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	9.72	39.25	24.84	48.97	34.56	66.00	56.00	-17.03	-21.44
2	0.19034	9.73	38.69	27.96	48.42	37.69	64.02	54.02	-15.60	-16.33
3	0.23993	9.73	32.34	22.39	42.07	32.12	62.10	52.10	-20.03	-19.98
4	0.29063	9.73	28.93	19.62	38.66	29.35	60.51	50.51	-21.84	-21.15
5	0.43125	9.74	27.42	20.77	37.16	30.51	57.23	47.23	-20.07	-16.72
6	1.41016	9.82	14.04	3.06	23.86	12.88	56.00	46.00	-32.14	-33.12
7	10.90078	10.13	14.33	9.05	24.46	19.18	60.00	50.00	-35.54	-30.82

- 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

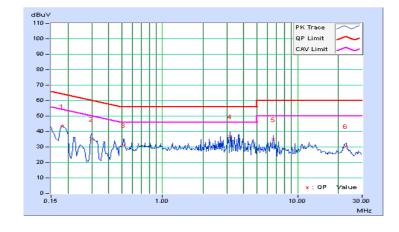




Phase	Line 1	6dB Bandwidth	9kHz
Channel	1	Test Mode	В

	Phase Of Power : Line (L)									
No	Frequency Correction Factor			g Value suV)		on Level uV)		nit uV)	Margin (dB)	
	(MHz)	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.18125	9.67	33.75	24.64	43.42	34.31	64.43	54.43	-21.01	-20.12
2	0.29844	9.67	25.45	18.09	35.12	27.76	60.29	50.29	-25.17	-22.53
3	0.51719	9.68	21.50	14.38	31.18	24.06	56.00	46.00	-24.82	-21.94
4	3.18359	9.75	26.87	13.57	36.62	23.32	56.00	46.00	-19.38	-22.68
5	6.58984	9.81	24.83	14.49	34.64	24.30	60.00	50.00	-25.36	-25.70
6	22.82404	9.94	20.30	18.08	30.24	28.02	60.00	50.00	-29.76	-21.98

- 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

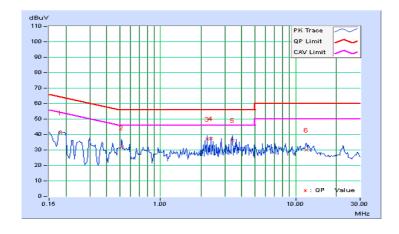




Phase	Line 2	6dB Bandwidth	9kHz
Channel	1	Test Mode	В

	Phase Of Power : Neutral (N)									
No	Frequency Correction Factor			g Value suV)		on Level uV)		mit uV)	Margin (dB)	
	(MHz)	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.18125	9.71	31.53	20.88	41.24	30.59	64.43	54.43	-23.19	-23.84
2	0.51719	9.71	21.88	14.65	31.59	24.36	56.00	46.00	-24.41	-21.64
3	2.22266	9.76	27.35	18.04	37.11	27.80	56.00	46.00	-18.89	-18.20
4	2.36974	9.76	27.68	18.96	37.44	28.72	56.00	46.00	-18.56	-17.28
5	3.40625	9.79	26.48	13.23	36.27	23.02	56.00	46.00	-19.73	-22.98
6	12.07031	9.93	19.92	14.36	29.85	24.29	60.00	50.00	-30.15	-25.71

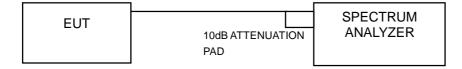
- 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2. The emission levels of other frequencies were very low against the limit.
- 3. Margin value = Emission level Limit value
- 4. Correction factor = Insertion loss + Cable loss
- 5. Emission Level = Correction Factor + Reading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





4.3 26dB Bandwidth Measurement

4.3.1 Test Setup



4.3.2 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.3.3 Test Procedure

- 1) Set RBW = 1kHz
- 2) Set the VBW > RBW.
- 3) Detector = Peak.
- 4) Trace mode = max hold.
- 5) Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer.

4.3.4 Deviation from Test Standard

No deviation.

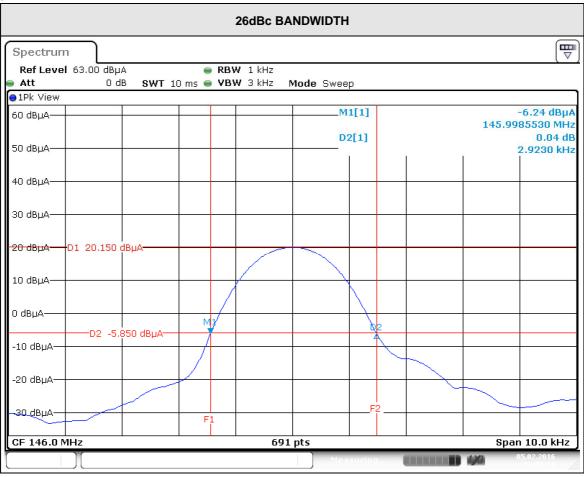
4.3.5 EUT Operating Condition

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.



4.3.6 Test Result

Mode A





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



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 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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