

FCC Test Report

Report No.: RF130511C01F

FCC ID: 188EMG2926Q10A

Test Model: EMG2926-Q10A

Series Model: NBG6716

Received Date: Oct. 30, 2015

Test Date: Nov. 10 ~ Nov. 17, 2015

Issued Date: Dec. 29, 2015

Applicant: ZyXEL Communications Corporation

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R.O.C.

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33383, TAIWAN (R.O.C.)





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Release Control Record

Issue No.	Description	Date Issued
RF130511C01F	Original release.	Dec. 29, 2015

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1 Certificate of Conformity

Product: Dual-Band Wireless AC/N Gigabit Ethernet Gateway

Brand: ZyXEL

Test Model: EMG2926-Q10A

Series Model: NBG6716

Sample Status: Engineering sample

Applicant: ZyXEL Communications Corporation

Test Date: Nov. 10 ~ Nov. 17, 2015

Standards: 47 CFR FCC Part 15, Subpart C (Section 15.247)

ANSI C63.10:2013

This report is issued as a supplementary report of RF130511C01B. This report shall be used combined together with its original report.

Prepared by: Dec. 29, 2019

lyy Lin / Specialist

Approved by: Dec. 29, 2015

Ken Liu / Senior Manager

Note: Radiated emission below 1GHz and conducted emission items are performed for the addendum. Refer to original report for the other test data.

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2 Summary of Test Results

47 CFR FCC Part 15, Subpart C (Section 15.247)					
FCC Clause	l lest item		Remarks		
15.207 AC Power Conducted Emission 15.205 / 15.209 / 15.247(d) Radiated Emissions and Band Edge Measurement		Pass	Meet the requirement of limit. Minimum passing margin is -19.86dB at 0.15000MHz		
		Pass	Meet the requirement of limit. Minimum passing margin is -5.7dB at 900.94MHz		
15.247(d)	7(d) Antenna Port Emission		Refer to Note		
15.247(a)(2)	15.247(a)(2) 6dB bandwidth		Refer to Note		
15.247(b) Conducted power		N/A	Refer to Note		
15.247(e)	15.247(e) Power Spectral Density		Refer to Note		
15.203	Antenna Requirement	Pass	Antenna connector is I-PEX not a standard connector.		

Note: Radiated emission below 1GHz and conducted emission items are performed for the addendum. Refer to original report for the other test data.

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	2.44 dB
Dadiated Emissions up to 1 CHz	30MHz ~ 200MHz	3.86 dB
Radiated Emissions up to 1 GHz	200MHz ~1000MHz	3.87 dB

2.2 Modification Record

There were no modifications required for compliance.



3 **General Information**

General Description of EUT

Product	Dual-Band Wireless AC/N Gigabit Ethernet Gateway
Brand	ZyXEL
Test Model	EMG2926-Q10A
Series Model	NBG6716
Model Difference	Refer to Note
Sample Status	Engineering sample
Power Supply Rating	12Vdc from adapter
Madulation Tuna	CCK, DQPSK, DBPSK for DSSS
Modulation Type	64QAM, 16QAM, QPSK, BPSK for OFDM
Modulation Technology	DSSS, OFDM
	802.11b:11.0/ 5.5/ 2.0/ 1.0Mbps
Transfer Rate	802.11g: 54.0/ 48.0/ 36.0/ 24.0/ 18.0/ 12.0/ 9.0/ 6.0Mbps
	802.11n: up to 450Mbps
Operating Frequency	2412 ~ 2462MHz
Number of Channel	11 for 802.11b, 802.11g, 802.11n (HT20)
Number of Channel	7 for 802.11n (HT40)
Output Power	830.032mW
Antenna Type	PCB antenna with 2dBi gain
Antenna Connector	I-PEX
Accessory Device	Adapter
Data Cable Supplied	N/A

Note:

- 1. This report is prepared for FCC class II permissive change.
- 2. This report is issued as a supplementary report of BVADT report no.: RF130511C01B. This report shall be combined together with its original report.
- 3. The device hardware and digital circuitry are identical with original certified. Difference compared with the original report are adding one adapter and adding one model name. Therefore, we re-tested radiated emission below 1GHz and conducted emission tests and presented in the test report.
- 4. All models are listed as below. Model EMG2926-Q10A is the representative for final test. (New model is marked in boldface and gray)

Brand	Model	Difference
7VCI	EMG2926-Q10A	All models are electrically identical, different models are for
ZyXEL	NBG6716	marketing purpose.

5. The EUT incorporates a MIMO function. Physically, the EUT provides 3 completed transmitters and 3 receivers.

Modulation Mode	TX Function
802.11b	3TX
802.11g	3TX
802.11n (HT20)	3TX
802.11n (HT40)	3TX

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6. The EUT consumes power from the following adapter.

Brand	DVE
Model	DSA-24PFM-12 FUS 120200
Input Power	100-240Vac, 50/60Hz, 0.8A
Output Power	+12Vdc/ 2A
Power Line	DC 1.45m power cable w/o core attached on adapter

7. The following antenna was provided to the EUT.

Туре	Brand	Model	Gain(dBi)	Connector
PCB	LYNwave	ALC120-051022-080750	2	I-PEX



3.2 Description of Test Modes

11 channels are provided for 802.11b, 802.11g and 802.11n (HT20):

Channel	Frequency	Channel	Frequency
1	2412MHz	7	2442MHz
2	2417MHz	8	2447MHz
3	2422MHz	9	2452MHz
4	2427MHz	10	2457MHz
5	2432MHz	11	2462MHz
6	2437MHz		

7 channels are provided for 802.11n (HT40):

Channel	Frequency	Channel	Frequency
3	3 2422MHz		2442MHz
4	2427MHz	8	2447MHz
5 2432MHz		9	2452MHz
6	2437MHz		



Test Mode Applicability and Tested Channel Detail 3.2.1

EUT CONFIGURE	APPLICA	ABLE TO	DESCRIPTION
MODE	RE<1G	PLC	DESCRIPTION
-	√	\checkmark	Adapter: DSA-24PFM-12 FUS 120200

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	MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
-	802.11g	1 to 11	11	OFDM	BPSK	6.0

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	MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
-	802.11g	1 to 11	11	OFDM	BPSK	6.0

Test Condition:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY	
RE<1G	18deg. C, 70%RH	120Vac, 60Hz	Jones Chang	
PLC	25deg. C, 70%RH	120Vac, 60Hz	Jones 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.

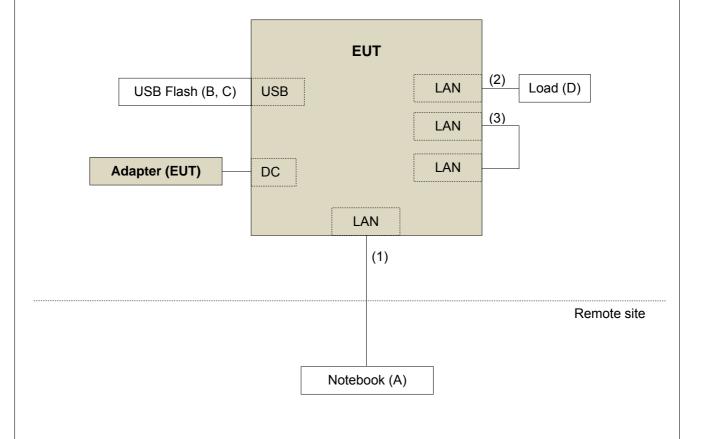
ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A.	Notebook	DELL	E5410	1HC2XM1	FCC DoC Approved	-
B.	USB FLASH	HP	v250W	01	FCC DoC Approved	-
C.	USB FLASH	HP	v250W	01	FCC DoC Approved	-
D.	Load	N/A	N/A	N/A	N/A	-

Note:

- 1. All power cords of the above support units are non-shielded (1.8m).
- 2. Items A acted as a communication partner to transfer data.

ID	Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	LAN cable	1	5	N	0	-
2.	LAN cable	2	1	N	0	-
3.	LAN cable	1	0.5	N	0	-

3.3.1 Configuration of System under Test



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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 (15.247) 558074 D01 DTS Meas Guidance v03r03 662911 D01 Multiple Transmitter Output v02r01 ANSI C63.10-2013

All test items have been performed and recorded as per the above standards.

Note: The EUT is also considered as a kind of computer peripheral, because the connection to computer is necessary for typical use. It has been verified to comply with the requirements of FCC Part 15, Subpart B, Class B (DoC). The test report has been issued separately.

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Test Types and Results

4.1 **Radiated Emission and Bandedge Measurement**

Limits of Radiated Emission and Bandedge Measurement 4.1.1

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table. Other emissions shall be at least 20dB below the highest level of the desired power:

Frequencies (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

Note:

- 1. The lower limit shall apply at the transition frequencies.
- 2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
- 3. For frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 30dB under any condition of modulation.

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4.1.2 Test Instruments

Test Date: Nov. 10, 2015

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Test Receiver ROHDE & SCHWARZ	ESIB7	100187	Apr. 10, 2015	Apr. 09, 2016
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100041	Sep. 02, 2015	Sep. 01, 2016
BILOG Antenna SCHWARZBECK	VULB9168	9168-160	Feb. 05, 2015	Feb. 04, 2016
HORN Antenna SCHWARZBECK	9120D	209	Feb. 09, 2015	Feb. 08, 2016
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170241	Feb. 09, 2015	Feb. 08, 2016
Preamplifier Agilent	8447D	2944A10738	Oct.18, 2015	Oct. 17, 2016
Preamplifier Agilent	8449B	3008A01964	Aug. 22, 2015	Aug. 21, 2016
RF signal cable HUBER+SUHNER	SUCOFLEX 104	Cable-CH3-03 (214378)	Aug. 22, 2015	Aug. 21, 2016
RF signal cable HUBER+SUHNER	SUCOFLEX 106	Cable-CH3-03 (309224+12738)	Aug. 22, 2015	Aug. 21, 2016
Software BV ADT	ADT_Radiated_ V7.6.15.9.4	NA	NA	NA
Antenna Tower inn-co GmbH	MA 4000	013303	NA	NA
Antenna Tower Controller BV ADT	AT100	AT93021702	NA	NA
Turn Table BV ADT	TT100	TT93021702	NA	NA
Turn Table Controller BV ADT	SC100	SC93021702	NA	NA
High Speed Peak Power Meter	ML2495A	0824011	Jul. 09, 2015	Jul. 08, 2016
Power Sensor	MA2411B	0738171	Jul. 09, 2015	Jul. 08, 2016

Note: 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 HwaYa Chamber 3.
- 3. The horn antenna and preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
- 4. The FCC Site Registration No. is 988962.
- 5. The IC Site Registration No. is IC 7450F-3.



4.1.3 Test Procedures

- a. The EUT was placed on the top of a rotating table 0.8 meters 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.

4.1.4 Deviation from Test Standard

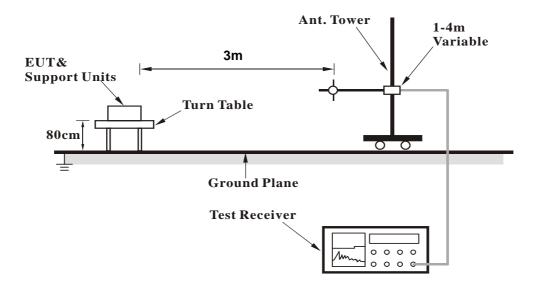
No	de	via	tio	n.

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4.1.5 Test Set Up



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

4.1.6 EUT Operating Conditions

- a. Placed the EUT on the testing table.
- b. Prepared notebook to act as communication partner and placed it outside of testing area.
- c. The communication partner connected with EUT via a RJ45 cable and ran a test program (provided by manufacturer) to enable EUT under transmission condition continuously at specific channel frequency.
- d. The necessary accessories enable the system in full functions.



4.1.7 Test Results

BELOW 1GHz WORST-CASE DATA

802.11g

CHANNEL	TX Channel 11	DETECTOR	Ougoi Book (OB)
FREQUENCY RANGE	30MHz ~ 1GHz	FUNCTION	Quasi-Peak (QP)

	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	57.12	31.0 QP	40.0	-9.0	1.99 H	266	45.80	-14.80
2	154.33	27.1 QP	43.5	-16.4	1.50 H	270	40.90	-13.80
3	241.83	29.3 QP	46.0	-16.7	1.00 H	114	44.00	-14.70
4	374.04	33.5 QP	46.0	-12.5	1.00 H	238	44.60	-11.10
5	624.85	34.1 QP	46.0	-11.9	1.50 H	317	39.60	-5.50
6	900.94	40.1 QP	46.0	-5.9	1.50 H	135	40.70	-0.60
		ANTENN	A POLARITY	/ & TEST DI	STANCE: V	ERTICAL AT	Г 3 М	
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	35.73	33.8 QP	40.0	-6.2	1.00 V	217	49.50	-15.70
2	374.04	34.6 QP	46.0	-11.4	1.50 V	82	45.70	-11.10
3	500.42	33.0 QP	46.0	-13.0	1.00 V	177	41.40	-8.40
4	624.85	35.9 QP	46.0	-10.1	1.50 V	165	41.40	-5.50
5	753.18	31.8 QP	46.0	-14.2	1.50 V	6	34.90	-3.10
6	900.94	40.3 QP	46.0	-5.7	1.00 V	16	40.90	-0.60

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)
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission Level Limit value

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4.2 Conducted Emission Measurement

4.2.1 Limits of Conducted Emission Measurement

Frequency (MHz)	Conducted Limit (dBuV)				
	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

Test Date: Nov. 17, 2015

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Test Receiver ROHDE & SCHWARZ	ESCI	100613	Nov. 16, 2015	Nov. 15, 2016
RF signal cable (with 10dB PAD) Woken	5D-FB	Cable-cond1-01	Dec. 26, 2014	Dec. 25, 2015
LISN ROHDE & SCHWARZ (EUT)	ESH3-Z5	835239/001	Feb. 26, 2015	Feb. 25, 2016
LISN ROHDE & SCHWARZ (Peripheral)	ESH3-Z5	100311	Jul. 24, 2015	Jul. 23, 2016
Software ADT	BV ADT_Cond_ V7.3.7.3	NA	NA	NA

Note: 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 HwaYa Shielded Room 1.
- 3. The VCCI Site Registration No. is C-2040.



4.2.3 Test Procedures

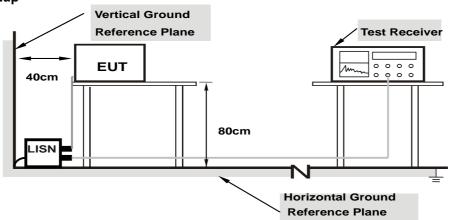
- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling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

Same as 4.1.6.

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4.2.7 Test Results

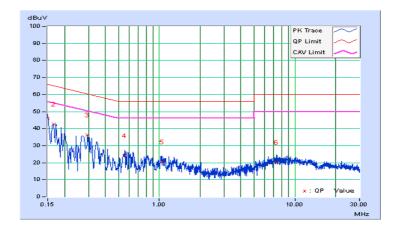
Worst-case data: 802.11g

Phase	Line (L)	LI JETECTOR FUNCTION	Quasi-Peak (QP) / Average (AV)
			/ Wordgo (/ W /

	Erog Corr.		Reading Value		Emission Level		Limit		Margin	
No	Freq.	Factor [dB (uV)] [dB (uV)]		[dB (uV)]		(uV)]	[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	9.84	36.20	22.50	46.04	32.34	66.00	56.00	-19.96	-23.66
2	0.16564	9.87	33.04	18.94	42.91	28.81	65.18	55.18	-22.27	-26.37
3	0.29506	9.92	26.59	20.06	36.51	29.98	60.38	50.38	-23.88	-20.41
4	0.55679	9.93	14.26	7.45	24.19	17.38	56.00	46.00	-31.81	-28.62
5	1.04148	10.03	10.41	4.51	20.44	14.54	56.00	46.00	-35.56	-31.46
6	7.33658	10.38	9.74	3.19	20.12	13.57	60.00	50.00	-39.88	-36.43

Remarks:

- 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.



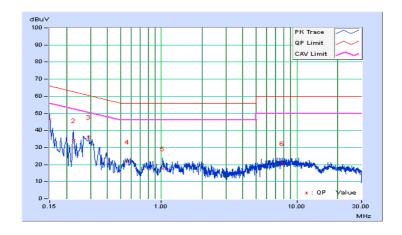


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
-------	-------------	-------------------	-----------------------------------

	Erog	Corr.	Reading Value		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	0.15000	9.89	36.25	22.53	46.14	32.42	66.00	56.00	-19.86	-23.58
2	0.22429	10.03	23.86	12.99	33.89	23.02	62.66	52.66	-28.77	-29.64
3	0.29076	10.01	25.98	19.27	35.99	29.28	60.50	50.50	-24.51	-21.22
4	0.56055	10.00	11.51	4.53	21.51	14.53	56.00	46.00	-34.49	-31.47
5	1.02607	10.03	7.44	2.19	17.47	12.22	56.00	46.00	-38.53	-33.78
6	7.81751	10.50	10.01	4.41	20.51	14.91	60.00	50.00	-39.49	-35.09

Remarks:

- 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.



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5 Pictures of Test Arrangements	
Please 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:

Linko EMC/RF Lab

Hsin Chu EMC/RF/Telecom Lab

Tel: 886-2-26052180 Fax: 886-2-26051924

Tel: 886-3-6668565 Fax: 886-3-6668323

Hwa Ya EMC/RF/Safety Lab

Tel: 886-3-3183232 Fax: 886-3-3270892

Email: service.adt@tw.bureauveritas.com Web Site: www.bureauveritas-adt.com

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

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