

FCC TEST REPORT

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MODEL NO.: M-R0051

FCC ID: JNZMR0051

RECEIVED: May 08, 2014

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ISSUED: May 19, 2014

APPLICANT: LOGITECH FAR EAST LTD.

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Taiwan, R.O.C.

ISSUED BY: Bureau Veritas Consumer Products Services (H.K.) Ltd.,

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF140508E10	Original release	May 19, 2014

Report No.: RF140508E10 3 of 22 Report Format Version 5.0.1



1 CERTIFICATION

PRODUCT: 2.4GHz Cordless Mouse

BRAND NAME: Logitech

MODEL NO.: M-R0051

TEST SAMPLE: ENGINEERING SAMPLE

APPLICANT: LOGITECH FAR EAST LTD.

TESTED: May 12 to 14, 2014

STANDARDS: FCC Part 15, Subpart C (Section 15.249)

ANSI C63.10-2009

The above equipment (Model: M-R0051) 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.

PREPARED BY : , DATE: May 19, 2014

(Lori Chung, Specialist)

(May Chen, Manager)



2 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

AF	APPLIED STANDARD: FCC Part 15, Subpart C (Section 15.249)				
STANDARD PARAGRAPH	TEST TYPE	RESULT	REMARK		
15.207	Conducted Emission Test	NA	Power from battery.		
15.209 15.249 15.249 (d)	Radiated Emission Test Band Edge Measurement Limit: 50dB less than the peak value of fundamental frequency or meet radiated emission limit in section 15.209	PASS	Meet the requirement of limit. Minimum passing margin is -2.8dB at 2400.00MHz		

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:

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Measurement	Value
Radiated emissions (30MHz-1GHz)	5.43 dB
Radiated emissions (1GHz -6GHz)	3.72 dB
Radiated emissions (6GHz -18GHz)	4.00 dB
Radiated emissions (18GHz -40GHz)	4.11 dB



3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

PRODUCT	2.4GHz Cordless Mouse
MODEL NO.	M-R0051
POWER SUPPLY	DC 1.5V from battery
MODULATION TYPE	GFSK
CARRIER FREQUENCY OF EACH CHANNEL	2405MHz ~ 2474MHz
NUMBER OF CHANNEL	12
ANTENNA TYPE	PCB printed antenna with -1.13dBi antenna gain
DATA CABLE	NA
I/O PORTS	Refer to user's manual
ASSOCIATED DEVICES	NA

NOTE:

- 1. The EUT operates in the 2.4GHz frequency spectrum and complies with GFSK techniques.
- 2. The above EUT information was declared by the manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.



3.2 DESCRIPTION OF TEST MODES

Twelve channels are provided in this EUT.

Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)
1	2405	4	2417	7	2441	10	2465
2	2408	5	2432	8	2444	11	2471
3	2414	6	2435	9	2462	12	2474

3.3 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

EUT CONFIGURE	Δ	APPLICABLE TO	0	DESCRIPTION
MODE	RE ³ 1G	RE<1G	PLC	
-	\checkmark	\checkmark	-	-

Where

RE<1G: Radiated Emission below 1GHz

RE31G: Radiated Emission above 1GHz

PLC: Power Line Conducted Emission

NOTE: No need to concern of Conducted Emission due to the EUT is powered by battery

RADIATED EMISSION TEST (BELOW 1 GHz):

- 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.

AVAILABLE	TESTED	MODULATION
CHANNEL	CHANNEL	TYPE
1 to 12	1	GFSK

RADIATED EMISSION TEST (ABOVE 1 GHz):

- 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.

AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TYPE
CHANNEL	CHANNEL	ITPE
1 to 12	1, 8, 12	GFSK

TEST CONDITION:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
RE ³ 1G	25deg. C, 65%RH	DC 1.5V	Nelson Teng
RE<1G	25deg. C, 65%RH	DC 1.5V	Nelson Teng



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 (Section 15.249)

ANSI C63.10-2009

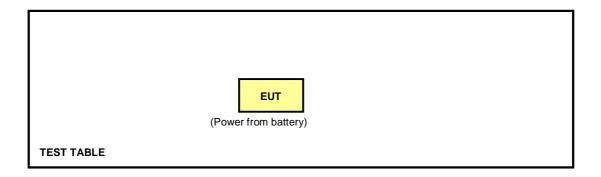
All tests have been performed and recorded as per the above standards.



3.5 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit.

3.6 CONFIGURATION OF SYSTEM UNDER TEST





4 TEST PROCEDURES AND RESULTS

4.1 RADIATED EMISSION AND BAND EDGE MEASUREMENT

4.1.1 LIMITS OF RADIATED EMISSION AND BAND EDGE MEASUREMENT

The field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following

Fundamental Frequency	Field Strength of Fundamental (millivolts/meter)	Field Strength of Harmonics (microvolts/meter)
902 ~ 928 MHz	50	500
2400 ~ 2483.5 MHz	50	500
5725 ~ 5875 MHz	50	500

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits as below table, whichever is the lesser attenuation

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 20dB under any condition of modulation.



4.1.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
MXE EMI Receiver Agilent	N9038A	MY50010156	Jan. 15, 2014	Jan. 14, 2015
Pre-Amplifier Mini-Circuits	ZFL-1000VH2 B	AMP-ZFL-04	Nov. 13, 2013	Nov. 12, 2014
Trilog Broadband Antenna SCHWARZBECK	VULB 9168	9168-361	Feb. 27, 2014	Feb. 26, 2015
RF Cable	NA	CHHCAB_001	Oct. 06, 2013	Oct. 05, 2014
Spectrum Analyzer R&S	FSV40	100964	July 15, 2013	July 14, 2014
Horn_Antenna AISI	AIH.8018	0000220091110	Dec. 06, 2013	Dec. 05, 2014
Pre-Amplifier Agilent	8449B	3008A01923	Oct. 29, 2013	Oct. 28, 2014
RF Cable	NA	RF104-205 RF104-207 RF104-202	Dec. 12, 2013	Dec. 11, 2014
Spectrum Analyzer Agilent	E4446A	MY48250253	Aug. 28, 2013	Aug. 27, 2014
Pre-Amplifier SPACEK LABS	SLKKa-48-6	9K16	Nov. 13, 2013	Nov. 12, 2014
Horn_Antenna SCHWARZBECK	BBHA 9170	9170-424	Oct. 08, 2013	Oct. 07, 2014
Software	ADT_Radiated _V8.7.07	NA	NA	NA
Antenna Tower & Turn Table CT	NA	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 horn antenna, preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
- 3 The test was performed in 966 Chamber No. H.
- 4. The FCC Site Registration No. is 797305.
- 5 The CANADA Site Registration No. is IC 7450H-3.
- 6 Tested Date: May 12 to 14, 2014



4.1.3 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meters 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 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 detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz.

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. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
- 3. All modes of operation were investigated and the worst-case emissions are reported.

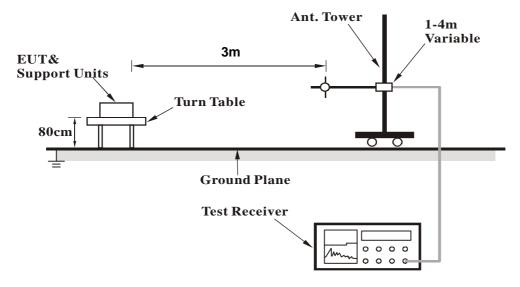
4.1.4 DEVIATION FROM TEST STANDARD

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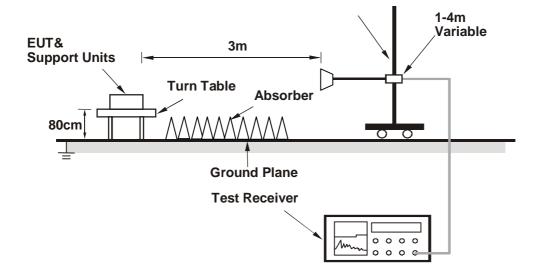


4.1.5 TEST SETUP

<Frequency Range below 1GHz>



<Frequency Range above 1GHz>



For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.



4.1.6 EUT OPERATING CONDITIONS	
Set the EUT under transmission / receiver condition continuously at specific channel frequency.	



4.1.7 TEST RESULTS

BELOW 1GHz WORST-CASE DATA

CHANNEL	TX Channel 1	DETECTOR	Overi Park (OP)
FREQUENCY RANGE	Below 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	68.17	20.7 QP	40.0	-19.3	2.00 H	160	35.55	-14.87	
2	76.32	19.9 QP	40.0	-20.1	1.00 H	103	36.44	-16.53	
3	149.41	16.9 QP	43.5	-26.7	1.50 H	8	29.34	-12.49	
4	257.71	16.9 QP	46.0	-29.2	2.00 H	235	30.26	-13.41	
5	314.99	18.4 QP	46.0	-27.6	1.50 H	276	29.46	-11.05	
6	486.77	21.2 QP	46.0	-24.8	1.00 H	360	28.44	-7.24	
		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	88.88	21.6 QP	43.5	-22.0	2.00 V	299	40.02	-18.47	
2	162.84	28.1 QP	43.5	-15.4	1.50 V	360	40.85	-12.74	
3	220.46	20.3 QP	46.0	-25.7	1.00 V	9	36.04	-15.72	
4	313.92	21.0 QP	46.0	-25.0	2.00 V	0	32.09	-11.09	
5	376.24	19.5 QP	46.0	-26.6	1.00 V	219	29.34	-9.89	
Ü			.0.0	20.0		-:0	=0.0.	0.00	

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



ABOVE 1GHz DATA

CHANNEL	TX Channel 1	DETECTOR	Dook (DK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	Peak (PK)

	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	2400.00	71.2 PK	74.0	-2.8	1.32 H	57	37.64	33.56	
2	2400.00	28.7 AV	54.0	-25.3	1.32 H	57	-4.86	33.56	
3	*2405.00	100.7 PK	114.0	-13.3	1.32 H	57	67.13	33.57	
4	*2405.00	58.2 AV	94.0	-35.8	1.32 H	57	24.63	33.57	
5	4810.00	47.9 PK	74.0	-26.1	1.60 H	152	4.74	43.16	
6	4810.00	5.4 AV	54.0	-48.6	1.60 H	152	-37.76	43.16	
7	7215.00	51.8 PK	74.0	-22.2	1.56 H	247	4.08	47.72	
8	7215.00	9.3 AV	54.0	-44.7	1.56 H	247	-38.42	47.72	
		ANTENNA	A POLARITY	/ & TEST DI	STANCE: V	ERTICAL A	T 3 M		
NO.	FREQ.	EMISSION	LIMIT	MARGIN	ANTENNA	TABLE	RAW	CORRECTION	
	(MHz)	LEVEL (dBuV/m)	(dBuV/m)	(dB)	HEIGHT (m)	ANGLE (Degree)	VALUE (dBuV)	FACTOR (dB/m)	
1	(MHz) 2400.00		(dBuV/m) 74.0	(dB) -9.3					
1 2	, ,	(dBuV/m)	,	, ,	(m)	(Degree)	(dBuV)	(dB/m)	
<u> </u>	2400.00	(dBuV/m) 64.7 PK	74.0	-9.3	(m) 1.16 V	(Degree)	(dBuV) 31.14	(dB/m) 33.56	
2	2400.00 2400.00	(dBuV/m) 64.7 PK 22.2 AV	74.0 54.0	-9.3 -31.8	(m) 1.16 V 1.16 V	(Degree) 95 95	(dBuV) 31.14 -11.36	(dB/m) 33.56 33.56	
3	2400.00 2400.00 *2405.00	(dBuV/m) 64.7 PK 22.2 AV 93.9 PK	74.0 54.0 114.0	-9.3 -31.8 -20.1	(m) 1.16 V 1.16 V 1.16 V	95 95 95	(dBuV) 31.14 -11.36 60.33	(dB/m) 33.56 33.56 33.57	
3	2400.00 2400.00 *2405.00 *2405.00	(dBuV/m) 64.7 PK 22.2 AV 93.9 PK 51.4 AV	74.0 54.0 114.0 94.0	-9.3 -31.8 -20.1 -42.6	(m) 1.16 V 1.16 V 1.16 V	95 95 95 95 95	(dBuV) 31.14 -11.36 60.33 17.83	(dB/m) 33.56 33.56 33.57 33.57	
2 3 4 5	2400.00 2400.00 *2405.00 *2405.00 4810.00	(dBuV/m) 64.7 PK 22.2 AV 93.9 PK 51.4 AV 48.4 PK	74.0 54.0 114.0 94.0 74.0	-9.3 -31.8 -20.1 -42.6 -25.6	(m) 1.16 V 1.16 V 1.16 V 1.16 V 1.63 V	95 95 95 95 95 262	(dBuV) 31.14 -11.36 60.33 17.83 5.24	(dB/m) 33.56 33.56 33.57 33.57 43.16	

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. The average value of fundamental frequency is: Average = Peak value + 20 log(Duty cycle) Where the duty factor is calculated from following formula:
 20 log (Duty cycle) = 20 log (0.0875 ms / 11.675 ms) = -42.5 dB
 Please see page 19 for plotted duty.



CHANNEL	TX Channel 8	DETECTOR	Dook (DK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	Peak (PK)

	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	*2444.00	99.5 PK	114.0	-14.5	1.37 H	73	65.81	33.69	
2	*2444.00	57.0 AV	94.0	-37.0	1.37 H	73	23.31	33.69	
3	4888.00	47.7 PK	74.0	-26.3	1.61 H	139	4.45	43.25	
4	4888.00	5.2 AV	54.0	-48.8	1.61 H	139	-38.05	43.25	
5	7332.00	51.5 PK	74.0	-22.5	1.60 H	234	3.33	48.17	
6	7332.00	9.0 AV	54.0	-45.0	1.60 H	234	-39.17	48.17	
		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	*2444.00	93.5 PK	114.0	-20.5	1.13 V	140	59.81	33.69	
2	*2444.00	51.0 AV	94.0	-43.0	1.13 V	140	17.31	33.69	
3	4888.00	48.6 PK	74.0	-25.4	1.66 V	276	5.35	43.25	
4	4888.00	6.1 AV	54.0	-47.9	1.66 V	276	-37.15	43.25	
5	7332.00	51.0 PK	74.0	-23.0	1.42 V	115	2.83	48.17	

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. The average value of fundamental frequency is: Average = Peak value + 20 log(Duty cycle) Where the duty factor is calculated from following formula: 20 log (Duty cycle) = 20 log (0.0875 ms / 11.675 ms) = -42.5 dB

Please see page 19 for plotted duty.

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CHANNEL	TX Channel 12	DETECTOR	Dook (DK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	Peak (PK)

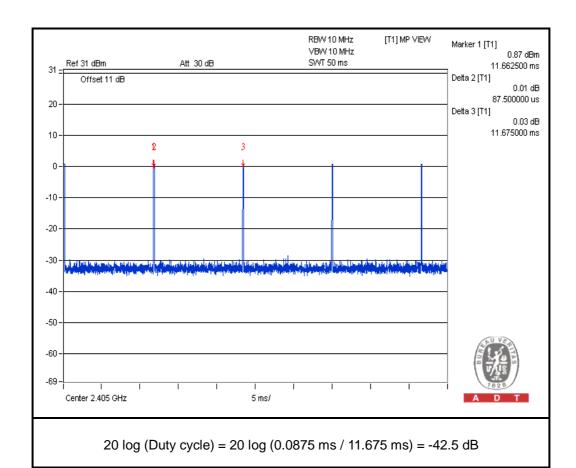
	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2474.00	99.3 PK	114.0	-14.7	1.31 H	63	65.52	33.78
2	*2474.00	56.8 AV	94.0	-37.2	1.31 H	63	23.02	33.78
3	2483.50	64.6 PK	74.0	-9.4	1.31 H	63	30.79	33.81
4	2483.50	22.1 AV	54.0	-31.9	1.31 H	63	-11.71	33.81
5	4948.00	47.9 PK	74.0	-26.1	1.58 H	151	4.63	43.27
6	4948.00	5.4 AV	54.0	-48.6	1.58 H	151	-37.87	43.27
7	7422.00	51.1 PK	74.0	-22.9	1.53 H	246	2.62	48.48
8	7422.00	8.6 AV	54.0	-45.4	1.53 H	246	-39.88	48.48
		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	*2474.00	93.6 PK	114.0	-20.4	1.18 V	142	59.82	33.78
2	*2474.00	51.1 AV	94.0	-42.9	1.18 V	142	17.32	33.78
3	2483.50	59.7 PK	74.0	-14.3	1.18 V	142	25.89	33.81
4	2483.50	17.2 AV	54.0	-36.8	1.18 V	142	-16.61	33.81
5	4948.00	48.6 PK	74.0	-25.4	1.63 V	275	5.33	43.27
6	4948.00	6.1 AV	54.0	-47.9	1.63 V	275	-37.17	43.27
7	7422.00	51.4 PK	74.0	-22.6	1.45 V	145	2.92	48.48
8	7422.00	8.9 AV	54.0	-45.1	1.45 V	145	-39.58	48.48

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. The average value of fundamental frequency is: Average = Peak value + 20 log(Duty cycle) Where the duty factor is calculated from following formula:

20 log (Duty cycle) = 20 log (0.0875 ms / 11.675 ms) = -42.5 dB Please see page 19 for plotted duty.







-	1828 A D T
5 PHOTOGRAPHS OF THE TEST CONFIGURATION	
Please refer to the attached file (Test Setup Photo).	
riease refer to the attached life (rest Setup Frioto).	

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6 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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7 APPENDIX A - MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

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