

FCC TEST REPORT

REPORT NO.: RF991014C19

MODEL NO.: MWP190_P6M

FCC ID: NIYMWP190P6M

RECEIVED: Oct. 14, 2010

TESTED: Oct. 25 ~ Oct. 26, 2010

ISSUED: Oct. 29, 2010

APPLICANT: DEXIN Corporation

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ISSUED BY: Bureau Veritas Consumer Products Services

(H.K.) Ltd., Taoyuan Branch

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Shan Hsiang, Taoyuan Hsien 333, Taiwan, R.O.C.

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1. CERTIFICATION

Responsible for RF

PRODUCT: 2.4GHz Touch Mouse

MODEL NO.: MWP190_P6M

BRAND: Dexin

APPLICANT: DEXIN Corporation

TESTED: Oct. 25 ~ Oct. 26, 2010

TEST SAMPLE: ENGINEERING SAMPLE

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

ANSI C63.4-2003

The above equipment (model: MWP190_P6M) have 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.

lvy lo / Specialist , DATE: Oct. 29, 2010

TECHNICAL ACCEPTANCE

APPROVED BY



2. SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part 15, Subpart C (Section 15.249)						
STANDARD PARAGRAPH TEST TYPE RESULT REMARK						
15.207	Conducted Emission Test	NA	Power supply is 3Vdc from batteries.			
15.209 15.249	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		Meet the requirement of limit. Minimum passing margin is -11.9dB at 173.78MHz.			

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	UNCERTAINTY
	30MHz ~ 200MHz	2.93 dB
Radiated emissions	200MHz ~1000MHz	2.95 dB
Radiated emissions	1GHz ~ 18GHz	2.26 dB
	18GHz ~ 40GHz	1.94 dB

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



3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

EUT	2.4GHz Touch Mouse
MODEL NO.	MWP190_P6M
FCC ID	NIYMWP190P6M
POWER SUPPLY	3Vdc (1.5Vdc battery * 2)
MODULATION TYPE	FSK
DATA RATE	375Kbps
OPERATING FREQUENCY	2408 ~ 2474MHz
NUMBER OF CHANNEL	58
ANTENNA TYPE	Copper trace antenna with -8.10dBi gain
DATA CABLE	NA
I/O PORT	NA
ACCESSORY DEVICES	NA

NOTE:

- 1. The EUT has transmitter and receiver functions.
- 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.

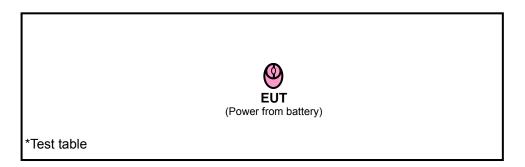


3.2 DESCRIPTION OF TEST MODES

58 channels are provided to this EUT:

CHANNEL	FREQ. (MHz)	CHANNEL	FREQ. (MHz)	CHANNEL	FREQ. (MHz)	CHANNEL	FREQ. (MHz)
1	2408	16	2425	31	2443	46	2462
2	2409	17	2426	32	2444	47	2463
3	2410	18	2427	33	2445	48	2464
4	2411	19	2428	34	2446	49	2465
5	2412	20	2431	35	2447	50	2466
6	2413	21	2432	36	2448	51	2467
7	2414	22	2433	37	2451	52	2468
8	2415	23	2434	38	2452	53	2469
9	2416	24	2435	39	2453	54	2470
10	2417	25	2436	40	2454	55	2471
11	2418	26	2437	41	2455	56	2472
12	2421	27	2438	42	2456	57	2473
13	2422	28	2440	43	2457	58	2474
14	2423	29	2441	44	2458		
15	2424	30	2442	45	2461		

3.2.1 CONFIGURATION OF SYSTEM UNDER TEST





3.2.2 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

EUT CONFIGURE		APPLICA	ABLE TO		DESCRIPTION
MODE	RE≥1G	RE<1G	PLC	ВМ	DEGGIIII IIGII
-	V	V	NOTE	V	-

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

RE≥1G: Radiated Emission above 1GHz **BM:** Bandedge Measurement

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

RADIATED EMISSION TEST (ABOVE 1 GHz):

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations 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 CHANNEL	MODULATION TYPE	
-	1 to 58	1, 28, 58	FSK	

RADIATED EMISSION TEST (BELOW 1 GHz):

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations 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 CHANNEL	MODULATION TYPE
-	1 to 58	58	FSK

BANDEDGE MEASUREMENT:

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

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

EUT CONFIGURE AVAILABLE CHANNEL		TESTED CHANNEL	MODULATION TYPE	
-	1 to 58	1, 58	FSK	

TEST CONDITION:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
RE≥1G	26deg. C, 66%RH, 1017 hPa	3Vdc	Frank Wang
RE<1G	26deg. C, 66%RH, 1007 hPa	3Vdc	Frank Wang
ВМ	26deg. C, 66%RH, 1007 hPa	3Vdc	Frank Wang

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3.3 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 C63.4-2003

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.

3.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit.



4. TEST TYPES AND RESULTS

4.1 RADIATED EMISSION MEASUREMENT

4.1.1 LIMITS OF RADIATED EMISSION MEASUREMENT

Emissions radiated outside of the specified bands, shall be according to the general radiated limits in 15.209, 15.249 as following:

15.209 Limit					
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			
15.249 Limit					
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			
24 ~ 24.25 GHz	250	2500			

NOTE:

- 1. The lower limit shall apply at the transition frequencies.
- 2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
- 3. As shown in 15.35(b), 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.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
Test Receiver ROHDE & SCHWARZ	ESIB7	100188	Dec. 21, 2009	Dec. 20, 2010
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100041	Jul. 09, 2010	Jul. 08, 2011
BILOG Antenna SCHWARZBECK	VULB9168	9168-156	Apr. 30, 2010	Apr. 29, 2011
HORN Antenna SCHWARZBECK	BBHA 9120 D	9120D-209	Aug. 02, 2010	Aug. 01, 2011
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170242	Dec. 25, 2009	Dec. 24, 2010
Preamplifier Agilent	8449B	3008A01910	Sep. 09, 2010	Sep. 08, 2011
Preamplifier Agilent	8447D	2944A10638	Dec. 21, 2009	Dec. 20, 2010
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	218190/4 231241/4	May 14, 2010	May 13, 2011
RF signal cable Worken	8D-FB	Cable-HYCH9-0 1	Aug. 20, 2010	Aug. 19, 2011
Software	ADT_Radiated_ V7.6.15.9.2	NA	NA	NA
Antenna Tower EMCO	2070/2080	512.835.4684	NA	NA
Turn Table EMCO	2087-2.03	NA	NA	NA
Antenna Tower &Turn Table Controller EMCO	2090	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 Chamber 9.
- 3. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
- 4. The FCC Site Registration No. is 460141.
- 5. The IC Site Registration No. is IC 7450F-4.



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 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

NOTE:

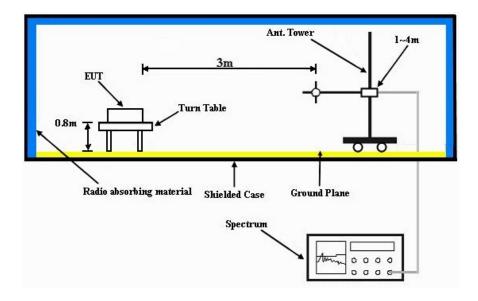
- 1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
- 2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
- 3. All modes of operation were investigated and the worst-case emissions are reported.

4.1.4 DEVIATION FROM TEST STANDARD

No deviation.



4.1.5 TEST SETUP



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. Set the EUT under transmitting condition.



4.1.7 TEST RESULTS

ABOVE 1GHz DATA

EUT TEST CONDITION		MEASUREMENT DETAIL		
CHANNEL Channel 1 F		FREQUENCY RANGE	1 ~ 25GHz	
INPUT POWER	3Vdc	DETECTOR FUNCTION	Peak (PK) Average (AV)	
	26deg. C, 66%RH 1007 hPa	TESTED BY	Frank Wang	

	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	2390.00	43.9 PK	74.0	-30.1	1.33 H	324	12.70	31.20			
2	2390.00	30.7 AV	54.0	-23.3	1.33 H	324	-0.50	31.20			
3	2397.00	45.2 PK	74.0	-28.8	1.33 H	324	14.00	31.20			
4	2397.00	33.2 AV	54.0	-20.8	1.33 H	324	2.00	31.20			
5	2400.00	37.8 PK	74.0	-36.2	1.33 H	324	6.60	31.20			
6	2400.00	25.9 AV	54.0	-28.1	1.33 H	324	-5.30	31.20			
7	*2408.00	79.9 PK	114.0	-34.1	1.33 H	324	48.70	31.20			
8	*2408.00	47.1 AV	94.0	-46.9	1.33 H	324	15.90	31.20			
9	4816.00	48.7 PK	74.0	-25.3	1.00 H	211	11.50	37.20			
10	4816.00	15.9 AV	54.0	-38.1	1.00 H	211	-21.30	37.20			

- 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.
- 5. " * ": Fundamental frequency
- 6. The average value of fundamental frequency is: Average = Peak value + 20log(Duty cycle) Where the duty factor is calculated from following formula: 20 log (Duty cycle) = 20 log (0.576 ms *4 / 100 ms) = -32.8 dB Please see page 17 for plotted duty.



EUT TEST CONDITION		MEASUREMENT DETAIL		
CHANNEL	Channel 1	FREQUENCY RANGE	1 ~ 25GHz	
INPUT POWER	3Vdc	DETECTOR FUNCTION	Peak (PK) Average (AV)	
ENVIRONMENTAL CONDITIONS	26deg. C, 66%RH 1007 hPa	TESTED BY	Frank Wang	

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL 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	2390.00	43.4 PK	74.0	-30.6	1.69 V	4	12.20	31.20			
2	2390.00	30.5 AV	54.0	-23.5	1.69 V	4	-0.70	31.20			
3	2397.00	44.1 PK	74.0	-29.9	1.69 V	4	12.90	31.20			
4	2397.00	32.6 AV	54.0	-21.4	1.69 V	4	1.40	31.20			
5	2400.00	39.2 PK	74.0	-34.8	1.69 V	4	8.00	31.20			
6	2400.00	27.3 AV	54.0	-26.7	1.69 V	4	-3.90	31.20			
7	*2408.00	78.4 PK	114.0	-35.6	1.00 V	4	47.20	31.20			
8	*2408.00	45.6 AV	94.0	-48.4	1.00 V	4	14.40	31.20			
9	4816.00	46.1 PK	74.0	-27.9	1.28 V	19	8.90	37.20			
10	4816.00	13.3 AV	54.0	-40.7	1.28 V	19	-23.90	37.20			

- 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.
- 5. " * " : Fundamental frequency
- 6. The average value of fundamental frequency is: Average = Peak value + 20log(Duty cycle) Where the duty factor is calculated from following formula: 20 log (Duty cycle) = 20 log (0.576 ms *4 / 100 ms) = -32.8 dB Please see page 17 for plotted duty.



EUT TEST CONDITION		MEASUREMENT DETAIL		
CHANNEL	Channel 28	FREQUENCY RANGE	1 ~ 25GHz	
INPUT POWER	3Vdc	DETECTOR FUNCTION	Peak (PK) Average (AV)	
ENVIRONMENTAL CONDITIONS	26deg. C, 66%RH 1007 hPa	TESTED BY	Frank Wang	

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
NO.	FREQ. (MHz)	EMISSION	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)			
1	*2440.00	80.8 PK	114.0	-33.2	2.00 H	303	49.40	31.40			
2	*2440.00	48.0 AV	94.0	-46.0	2.00 H	303	16.60	31.40			
3	4880.00	48.9 PK	74.0	-25.1	1.00 H	214	11.60	37.30			
4	4880.00	16.1 AV	54.0	-37.9	1.00 H	214	-21.20	37.30			
		ANTENNA	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	*2440.00	79.7 PK	114.0	-34.3	2.04 V	10	48.30	31.40			
2	*2440.00	46.9 AV	94.0	-47.1	2.04 V	10	15.50	31.40			
							0.00				
3	4880.00	46.3 PK	74.0	-27.7	1.25 V	20	9.00	37.30			

- 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.
- 5. " * " : Fundamental frequency
- 6. The average value of fundamental frequency is: Average = Peak value + 20log(Duty cycle) Where the duty factor is calculated from following formula: 20 log (Duty cycle) = 20 log (0.576 ms *4 / 100 ms) = -32.8 dB Please see page 17 for plotted duty.

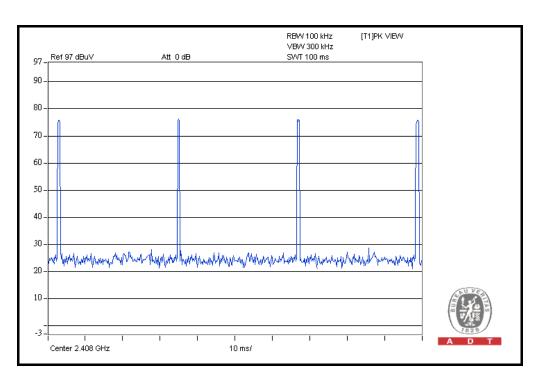


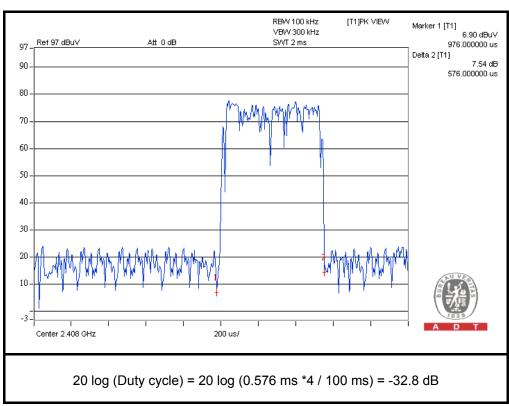
EUT TEST CONDITION		MEASUREMENT DETAIL		
CHANNEL Channel 58		FREQUENCY RANGE	1 ~ 25GHz	
INPUT POWER 3Vdc		DETECTOR FUNCTION	Peak (PK) Average (AV)	
	26deg. C, 66%RH 1007 hPa	TESTED BY	Frank Wang	

	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	82.0 PK	114.0	-32.0	1.92 H	318	50.90	31.10		
2	*2474.00	49.2 AV	94.0	-44.8	1.92 H	318	18.10	31.10		
3	2483.50	38.9 PK	74.0	-35.1	1.92 H	318	7.80	31.10		
4	2483.50	26.9 AV	54.0	-27.1	1.92 H	318	-4.20	31.10		
5	2485.50	46.4 PK	74.0	-27.6	1.92 H	318	15.30	31.10		
6	2485.50	32.0 AV	54.0	-22.0	1.92 H	318	0.90	31.10		
7	4948.00	48.6 PK	74.0	-25.4	1.02 H	214	11.60	37.00		
8	4948.00	15.8 AV	54.0	-38.2	1.02 H	214	-21.20	37.00		
		ANTENNA	A POLARIT	Y & 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	79.6 PK	114.0	-34.4	2.38 V	9	48.10	31.50		
2	*2474.00	46.8 AV	94.0	-47.2	2.38 V	9	15.30	31.50		
3	2483.50	37.6 PK	74.0	-36.4	2.38 V	9	6.10	31.50		
4	2483.50	24.8 AV	54.0	-29.2	2.38 V	9	-6.70	31.50		
5	2485.50	45.2 PK	74.0	-28.8	2.38 V	9	13.70	31.50		
6	2485.50	31.6 AV	54.0	-22.4	2.38 V	9	0.10	31.50		
7	4948.00	46.2 PK	74.0	-27.8	1.27 V	24	8.70	37.50		
8	4948.00	13.4 AV	54.0	-40.6	1.27 V	24	-24.10	37.50		

- 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.
- 5. " * ": Fundamental frequency
- The average value of fundamental frequency is: Average = Peak value + 20log(Duty cycle) Where the duty factor is calculated from following formula:
 20 log (Duty cycle) = 20 log (0.576 ms *4 / 100 ms) = -32.8 dB
 Please see page 17 for plotted duty.









BELOW 1GHz WORST-CASE DATA

EUT TEST CONDITION		MEASUREMENT DETAIL		
CHANNEL	Channel 58	FREQUENCY RANGE	Below 1000MHz	
INPUT POWER	3Vdc	DETECTOR FUNCTION	Quasi-Peak	
ENVIRONMENTAL CONDITIONS	26deg. C, 66%RH 1017 hPa	TESTED BY	Frank Wang	

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
NO.	FREQ. (MHz)	EMISSION	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)			
1	99.89	24.7 QP	43.5	-18.8	2.00 H	226	15.30	9.40			
2	173.78	25.8 QP	43.5	-17.7	2.00 H	34	13.10	12.70			
3	514.03	24.5 QP	46.0	-21.5	1.25 H	91	4.80	19.70			
4	543.19	26.3 QP	46.0	-19.7	2.00 H	130	5.70	20.60			
5	698.74	26.5 QP	46.0	-19.5	1.75 H	79	3.70	22.80			
6	895.11	25.8 QP	46.0	-20.2	2.00 H	289	-0.30	26.10			
		ANTENNA	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	30.00	18.5 QP	40.0	-21.5	1.25 V	130	6.20	12.30			
2	99.89	31.5 QP	43.5	-12.0	1.25 V	10	22.10	9.40			
3	173.78	31.6 QP	43.5	-11.9	1.00 V	253	18.90	12.70			
4	313.77	14.8 QP	46.0	-31.2	1.25 V	307	0.80	14.00			
5	698.74	30.0 QP	46.0	-16.0	1.00 V	271	7.20	22.80			

- 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 BAND EDGES MEASUREMENT

4.2.1 LIMITS OF BAND EDGES MEASUREMENT

Below –50dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).

4.2.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION	
SPECTRUM ANALYZER R&S	FSP40	100040	Jul. 17, 2010	Jul. 16, 2011	

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

4.2.3 TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer via a low lose cable. Set both RBW and VBW of spectrum analyzer to 100 kHz and 300 kHz with suitable frequency span including 100 MHz bandwidth from band edge. The band edges was measured and recorded.

The spectrum plots are attached on the following pages.

4.2.4 DEVIATION FROM TEST STANDARD

No deviation.

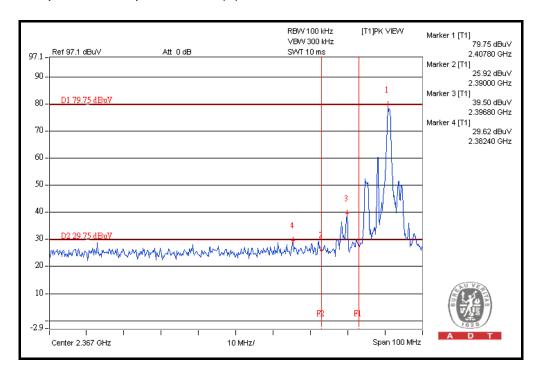
4.2.5 EUT OPERATING CONDITION

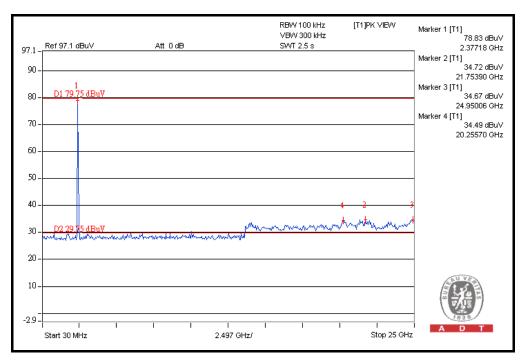
The software provided by client to enable the EUT under transmission condition continuously at lowest and highest channel frequencies individually.



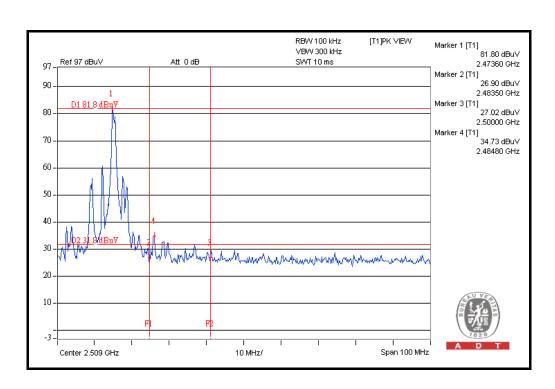
4.2.6 TEST RESULTS

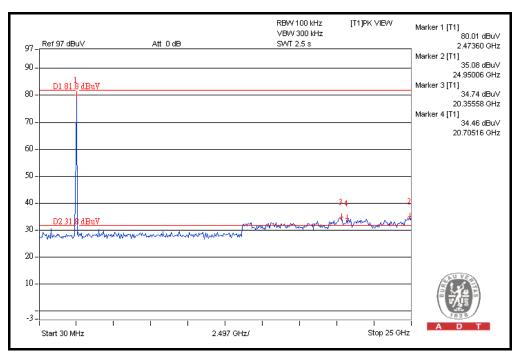
The spectrum plots are attached on the following 4 images. D1 line indicates the highest level, and D2 line indicates the 50dB offset below D1. It shows compliance with the requirement in part 15.249 (d).













5. PHOTOGRAPHS OF THE TEST CONFIGURATION Please refer to the attached file (Test Setup Photo).



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.

Copies of accreditation certificates of our laboratories obtained from approval agencies can be downloaded from our web site: www.adt.com.tw/index.5/phtml. If you have any comments, please feel free to contact us at the following:

Linko EMC/RF Lab: Hsin Chu EMC/RF Lab:

Tel: 886-2-26052180 Tel: 886-3-5935343 Fax: 886-2-26051924 Fax: 886-3-5935342

Hwa Ya EMC/RF/Safety Telecom Lab:

Tel: 886-3-3183232 Fax: 886-3-3185050

Web Site: www.adt.com.tw

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



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

No any modifications are made to the EUT by the lab during the test.
---END---