



FCC TEST REPORT

REPORT NO.: RF930518L04

MODEL NO.: WAP-G06, DWL-G820, DWL-G810,
DWL-G800AP

RECEIVED: May 18, 2004

TESTED: May 26 to Jun. 2, 2004

APPLICANT: D-LINK CORPORATION

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ISSUED BY: Advance Data Technology Corporation

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1 CERTIFICATION

PRODUCT : 802.11g/2.4GHz Wireless Gaming Adapter
BRAND NAME : D-Link
MODEL NO. : WAP-G06, DWL-G820, DWL-G810, DWL-G800AP
TESTED: May 26 to Jun. 2, 2004
APPLICANT : D-LINK CORPORATION
TEST ITEM: ENGINEERING SAMPLE
STANDARDS : 47 CFR Part 15, Subpart C (Section 15.247),
ANSI C63.4-1992

The above equipment (Model: WAP-G06) has been tested by **Advance Data Technology Corporation**, 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: Carol Liao, **DATE:** Jun. 7, 2004
(Carol Liao)

APPROVED BY: Eric Lin, **DATE:** Jun. 7, 2004
(Eric Lin, Manager)



2 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: 47 CFR Part 15, Subpart C			
Standard Section	Test Type and Limit	Result	REMARK
15.207	AC Power Conducted Emission Limit: 48dBuV	PASS	Meet the requirement of limit Minimum passing margin is -15.49 dBuV at 0.185 MHz
15.247(a)(2)	Spectrum Bandwidth of a Direct Sequence Spread Spectrum System Limit: min. 500kHz	PASS	Meet the requirement of limit
15.247(b)	Maximum Peak Output Power Limit: max. 30dBm	PASS	Meet the requirement of limit
15.247(c)	Transmitter Radiated Emissions Limit: Table 15.209	PASS	Meet the requirement of limit Minimum passing margin is -1.20 dBuV at 2483.50MHz
15.247(d)	Power Spectral Density Limit: max. 8dBm	PASS	Meet the requirement of limit
15.247(c)	Band Edge Measurement Limit: 20 dB less than the peak value of fundamental frequency	PASS	Meet the requirement of limit



3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

PRODUCT	802.11g/2.4GHz Wireless Gaming Adapter
MODEL NO.	WAP-G06, DWL-G820, DWL-G810, DWL-G800AP
POWER SUPPLY	5Vdc from Power Adapter
MODULATION TYPE	CCK, OFDM, DBPSK, DQPSK
RADIO TECHNOLOGY	DSSS, OFDM
TRANSFER RATE	1/2/5.5/6/9/11/12/18/24/36/48/54Mbps (Turbo mode at channel 6: up to 108Mbps)
FREQUENCY RANGE	2412MHz ~ 2462MHz
NUMBER OF CHANNEL	11
OUTPUT POWER	20.0dBm
ANTENNA TYPE	Dipole antenna and Printed antenna
DATA CABLE	NA
I/O PORTS	RJ45 port x 1
ASSOCIATED DEVICES	NA

NOTE:

1. The EUT operates in the 2.4GHz frequency spectrum with throughput of up to 54Mbps.
2. The EUT complies with IEEE 802.11g draft standards, and backwards compatible with IEEE 802.11b products.
3. There are two antennas provided to this EUT, please refer to the following table:

No.	Gain (dBi)	Antenna Type	Antenna Connector
1	2.0 dBi	Dipole antenna	R-SMA connector
2	0 dBi	Printed antenna	NA



4. The EUT was powered by the following adapter:

Brand:	D-Link
Model No.:	JTA0302A
Input power :	100-120V ~ 0.5A, 50-60Hz
Output power :	+5.0V===2.0A

5. The EUT has four model names which are identical to each other in all aspects except for the followings:

Brand	Model Name	description
D-Link	DWL-G820	only model name different
	DWL-G810	
	DWL-G800AP	
	WAP-G06	

From the above models, model: **WAP-G06** was selected as representative model for the test and its data was recorded in this report.

6. 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

Eleven channels are provided in this EUT.

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

NOTE:

1. Below 1 GHz, the channel 1, 6, and 11 were pre-tested in chamber. The channel 11, worst case one, was chosen for final test.
2. Above 1 GHz, the channel 1, 6, and 11 were tested individually.
3. Transfer rate, 11Mbps with CCK technique and 6Mbps with OFDM technique, the worst case, were chosen for final test.
4. "Turbo Mode" allows data rates of up to 108Mbps. At data rates higher than 12Mbps the PA gain is reduced to improve signal fidelity. The device was, therefore, tested in turbo mode at the data rate that produced the highest output power for turbo mode (12Mbps).

3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is an 802.11g/2.4GHz Wireless Gaming Adapter . According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

47 CFR Part 15, Subpart C. (15.247)
ANSI C63.4 : 1992

All tests 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 47 CFR 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 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.

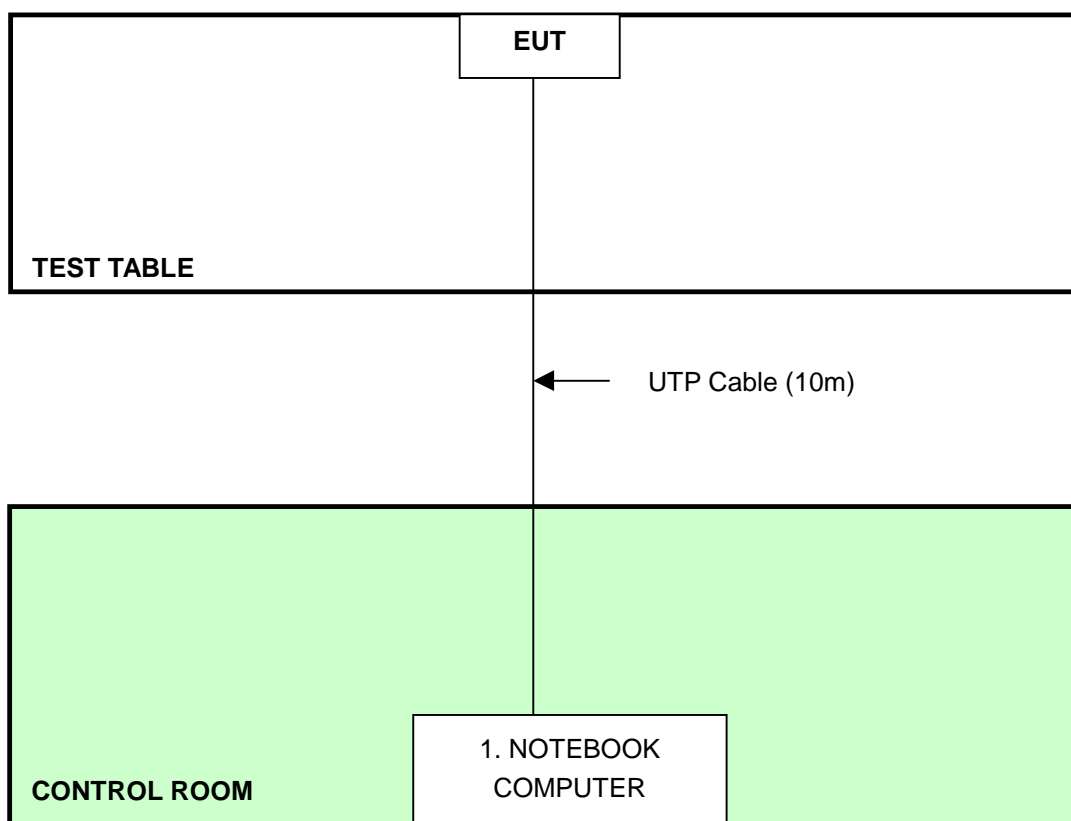
NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	Notebook Computer	DELL	C600	6DRV601	FCC DoC

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	NA

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



3.5 CONFIGURATION OF SYSTEM UNDER TEST



- NOTE:** 1. Support unit 1 was kept in the control room during the test.
2. Please refer to the photos of test configuration in Item 5 also.



4 TEST TYPES AND RESULTS

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dB μ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56	56 to 46
0.5-5	56	46
5-30	60	50

NOTE:

1. The lower limit shall apply at the transition frequencies.
2. All emanations from a class B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

4.1.2 TEST INSTRUMENTS

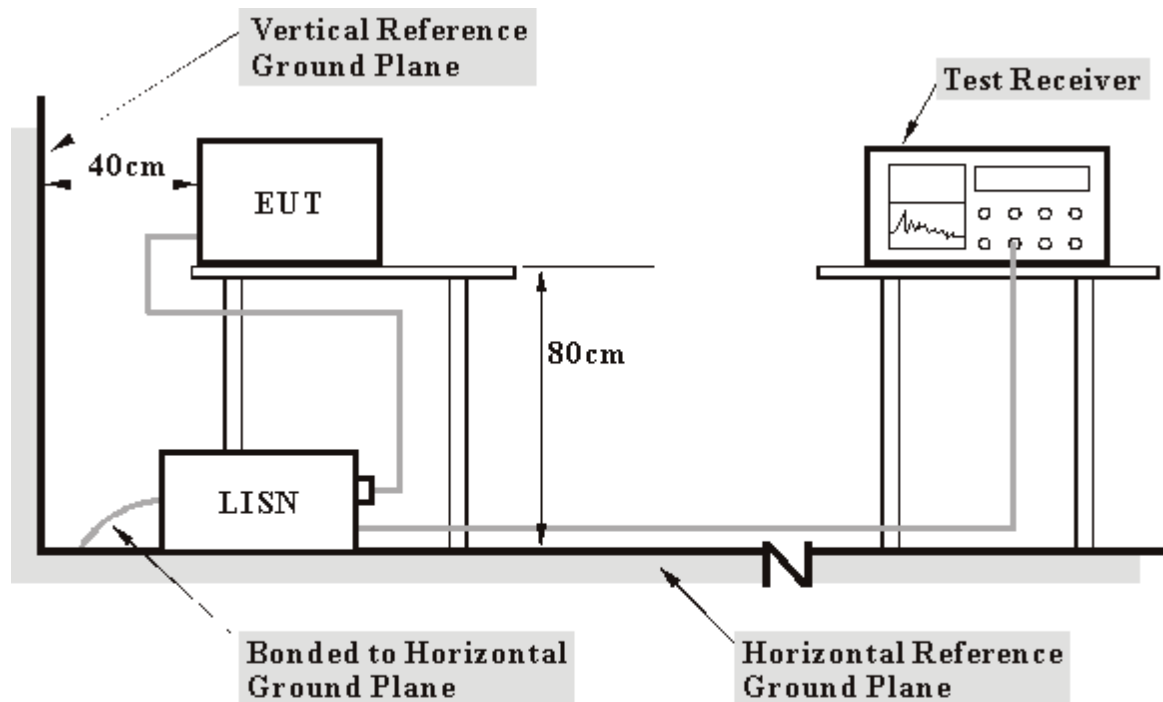
DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
ROHDE & SCHWARZ Test Receiver	ESCS 30	847124/029	Dec. 04, 2004
ROHDE & SCHWARZ LISN (for EUT)	ESHS-Z5	848773/004	Nov. 04, 2004
KYORITSU LISN (for peripheral)	KNW-407	8/1395/12	Jul. 27, 2004
RF Cable (JETBAO)	RG233/U	Cable_CA_01	Jul. 03, 2004
Terminator(for KYORITSU)	50	3	May 10, 2005
Software	Cond-V2e	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 ADT Shielded Room No. A.
 3. The VCCI Con A Registration No. is C-817.

3. TEST PROCEDURES

- a. The EUT/HOST was placed 0.4 meters from the conducting wall of the shielded room with EUT/HOST 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/HOST were checked for maximum conducted interference.
- c. The frequency range from 150 kHz to 30 MHz was searched. Emission levels over 10dB under the prescribed limits could not be reported

4.1.3 TEST SETUP



- Note:**
1. Support units were connected to second LISN.
 2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

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



4.1.4 EUT OPERATING CONDITIONS

- a. Placed the EUT on the testing table.
- b. Prepared another computer system to act as a communication partner and placed it outside of testing area.
- c. The communication partner run "Art 48b5" test program to enable EUT under transmission/receiving condition continuously at specific channel frequency via UTP cable and wireless.

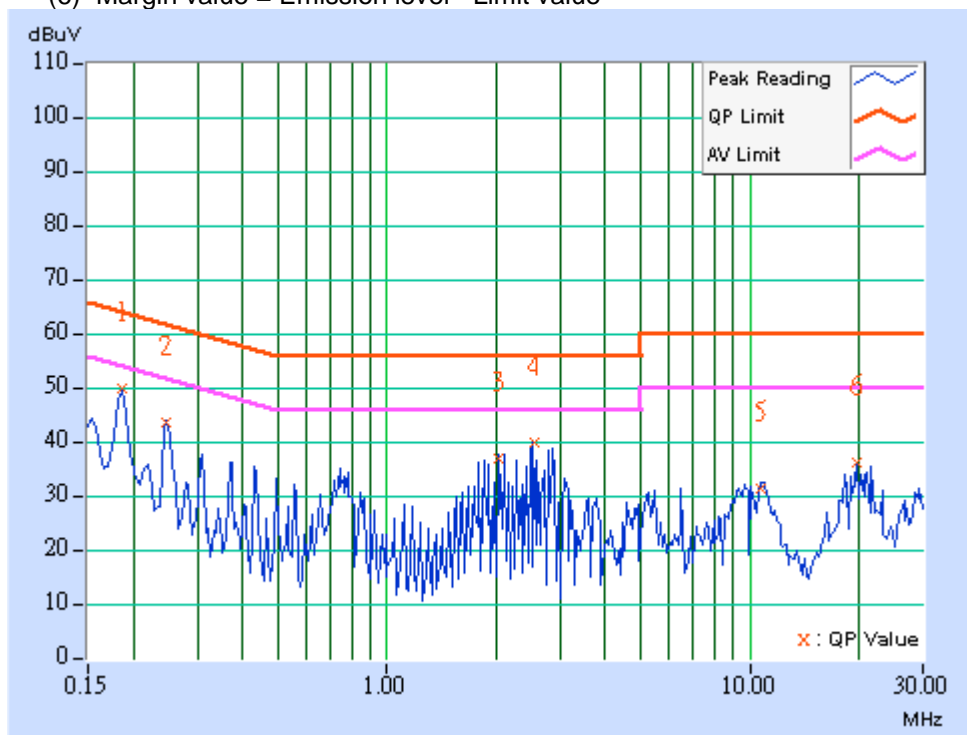


4.1.5 TEST RESULTS

EUT	802.11g/2.4GHz Wireless Gaming Adapter	MODEL	WAP-G06
MODE	Channel 11	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	26 deg. C, 58%RH, 970 hPa	TESTED BY	Rex Huang

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.185	0.27	48.49	-	48.76	-	64.25	54.25	-15.49	-
2	0.248	0.28	42.33	-	42.61	-	61.84	51.84	-19.23	-
3	2.041	0.30	35.72	-	36.02	-	56.00	46.00	-19.98	-
4	2.535	0.33	38.44	-	38.77	-	56.00	46.00	-17.23	-
5	10.697	0.86	30.25	-	31.11	-	60.00	50.00	-28.89	-
6	19.707	1.39	34.86	-	36.25	-	60.00	50.00	-23.75	-

- NOTES:** (1) "": Undetectable
 (2) Q.P. and AV. are abbreviations of quasi-peak and average.
 (3) "-": The Quasi-peak reading value also meets an average limit, thus measurement with the average detector is unnecessary.
 (4) The emission levels of other frequencies were very low against the limit.
 (5) Correction Factor = Insertion loss + Cable loss
 (6) Margin value = Emission level - Limit value

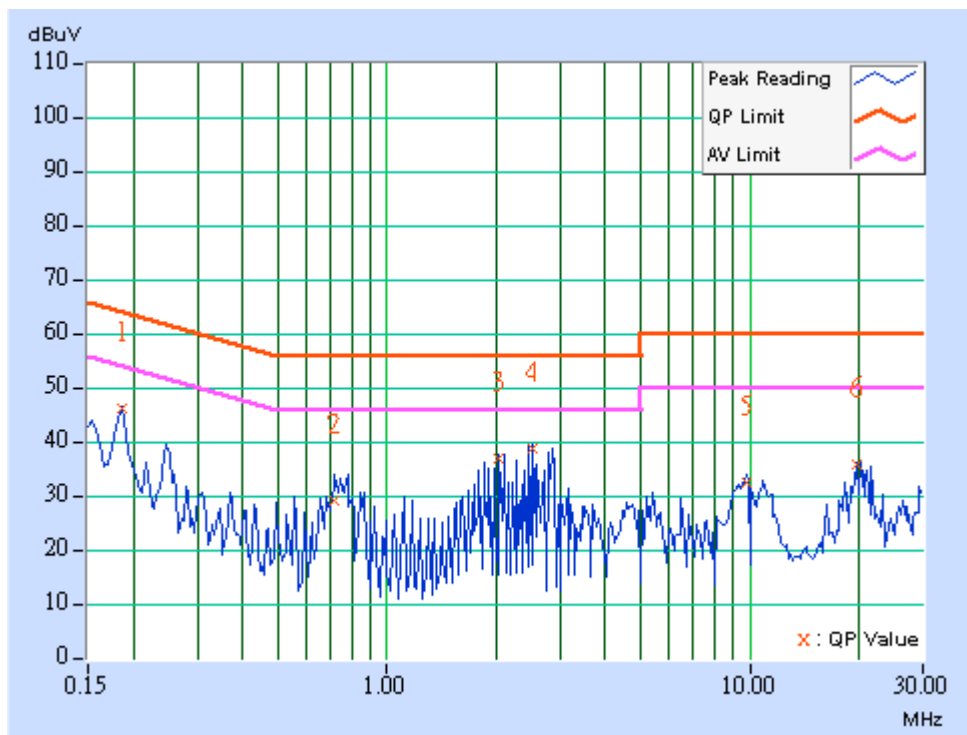




EUT	802.11g/2.4GHz Wireless Gaming Adapter	MODEL	WAP-G06
MODE	Channel 11	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	26 deg. C, 58%RH, 970 hPa	TESTED BY	Rex Huang

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
			1	0.185	0.27	45.15	-	45.42	-	64.25
2	0.720	0.25	27.92	-	28.17	-	56.00	46.00	-27.83	-
3	2.041	0.30	35.77	-	36.07	-	56.00	46.00	-19.93	-
4	2.533	0.33	37.71	-	38.04	-	56.00	46.00	-17.96	-
5	9.829	0.69	31.58	-	32.27	-	60.00	50.00	-27.73	-
6	19.707	1.19	34.82	-	36.01	-	60.00	50.00	-23.99	-

- NOTES:**
- "*": Undetectable
 - Q.P. and AV. are abbreviations of quasi-peak and average.
 - "-": The Quasi-peak reading value also meets an average limit, thus measurement with the average detector is unnecessary.
 - The emission levels of other frequencies were very low against the limit.
 - Correction Factor = Insertion loss + Cable loss
 - Margin value = Emission level - Limit value





4.2 RADIATED EMISSION MEASUREMENT

4.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

Field strength limits are at the distance of 3 meters, emissions radiated outside of the specified bands, shall be according to the general radiated limits in 15.209 as following:

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. 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.



4.2.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
HP Spectrum Analyzer	8594ER	3829U04676	Aug. 30, 2004
ADVANTEST Spectrum Analyzer	R3271A	85060311	Jun. 16, 2004
CHASE RF Pre_Amplifier	CPA9232	1057	May. 10, 2005
HP Pre_Amplifier	8449B	3008A01922	Oct. 13, 2004
ROHDE & SCHWARZ Test Receiver	ESVS 10	849231 /019	Sep. 30, 2004
CHASE Broadband Antenna	CBL6111c	2730	Jul 30, 2004
Schwarzbeck Horn_Antenna	3115	5619	Jul. 17, 2004
Schwarzbeck Horn_Antenna	BBHA 9170	BBHA9170192	Feb. 16, 2005
SCHWARZBECK Tunable Dipole Antenna	UHAP	897	Mar. 07, 2005
SCHWARZBECK Tunable Dipole Antenna	VHAP	880	Mar. 07, 2005
RF Switches (ARNITSU)	CS-201	1565157	Dec. 01, 2004
RF CABLE (Chaintek) 1GHz-20GHz	SF102	22054-2	Feb. 10. 2005
RF Cable(RICHTEC)	9913-30M	STCCAB-30M- 1GHz-021	Dec. 01, 2004
Software	AS60P8	NA	NA
CHANCE MOST Antenna Tower	AT-100	0203	NA
CHANCE MOST Turn Table	TT-100	0203	NA

Note: 1. The calibration interval of the above test instruments is 12 months (36 months for Tunable Dipole Antenna) and the calibrations are traceable to NML/ROC and NIST/USA.

2. * = These equipment are used for the final measurement.
3. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
4. The test was performed in ADT Open Site No. C.
5. The FCC Site Registration No. is 656396.
6. The VCCI Site Registration No. is R-1626.
7. The CANADA Site Registration No. is IC 4824-3.



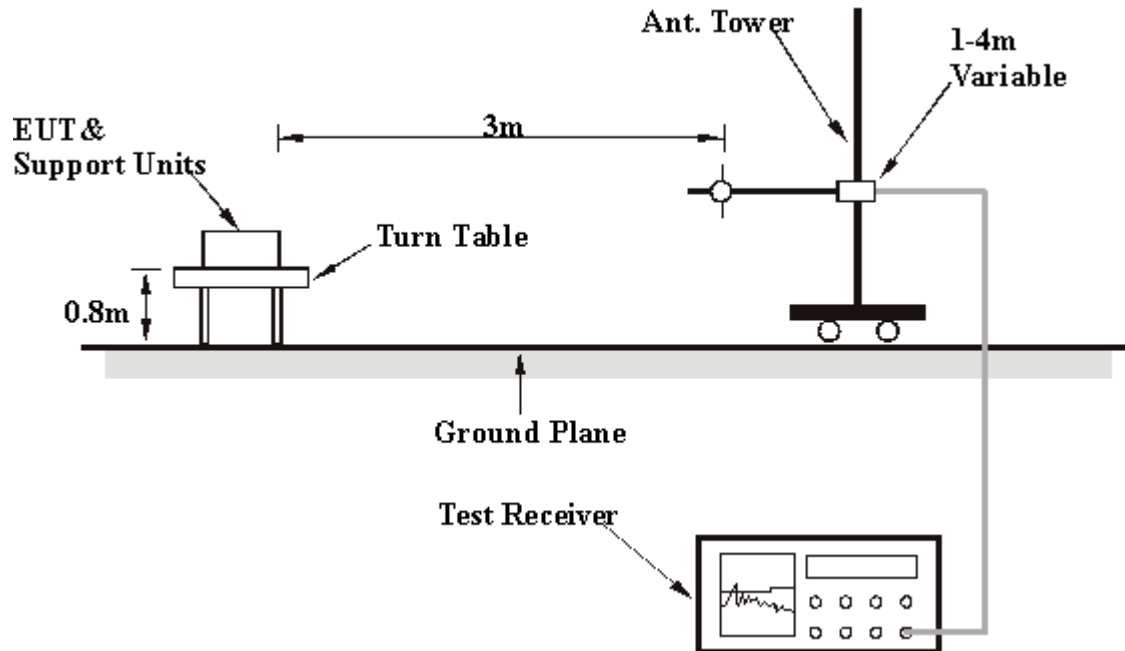
4.2.3 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 10 meter open area test site. 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 10 dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10 dB margin 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 Peak detection (PK) and Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz for Peak detection at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 300 Hz for Average detection (AV) at frequency above 1GHz.

4.2.4 TEST SETUP



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

4.2.5 EUT OPERATING CONDITIONS

Same as 4.1.5.



4.2.6 TEST RESULTS

EUT	802.11g/2.4GHz Wireless Gaming Adapter	MODEL	WAP-G06
MODE	Channel 11	FREQUENCY RANGE	30-1000 MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION & BANDWIDTH	Quasi-Peak, 120kHz
ENVIRONMENTAL CONDITIONS	28 deg. C, 55%RH, 970 hPa	TESTED BY	Wen Yu

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	125.00	27.40 QP	43.50	-16.10	2.77 H	341	14.30	13.10
2	249.99	28.40 QP	46.00	-17.60	1.50 H	259	14.00	14.40
3	270.00	30.50 QP	46.00	-15.50	1.06 H	22	15.80	14.70
4	360.00	29.30 QP	46.00	-16.70	1.00 H	43	12.00	17.30
5	540.00	34.00 QP	46.00	-12.00	1.00 H	66	11.70	22.30
6	630.01	35.30 QP	46.00	-10.70	1.82 H	262	11.40	23.80
7	720.01	41.40 QP	46.00	-4.60	1.22 H	40	15.80	25.60
8	810.01	37.60 QP	46.00	-8.40	1.00 H	5	11.40	26.20
9	900.01	43.40 QP	46.00	-2.60	1.43 H	164	15.60	27.80
10	990.01	36.60 QP	54.00	-17.40	1.56 H	58	7.60	29.00

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	50.00	26.80 QP	40.00	-13.20	1.00 V	301	17.60	9.10
2	125.00	37.50 QP	43.50	-6.00	1.08 V	22	24.50	13.10
3	175.00	24.80 QP	43.50	-18.70	1.00 V	20	14.50	10.30
4	270.00	25.60 QP	46.00	-20.40	1.00 V	116	10.90	14.70
5	375.00	29.30 QP	46.00	-16.70	1.40 V	23	11.50	17.80
6	450.00	31.40 QP	46.00	-14.60	1.26 V	15	11.30	20.10
7	540.01	37.70 QP	46.00	-8.30	1.00 V	73	15.40	22.30
8	720.00	37.40 QP	46.00	-8.60	1.00 V	23	11.80	25.60
9	810.01	35.60 QP	46.00	-10.40	1.22 V	0	9.40	26.20
10	900.01	42.20 QP	46.00	-3.80	1.00 V	184	14.40	27.80

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
 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.



4.2.7 TEST RESULTS – Antenna 1, DSSS

EUT	802.11g/2.4GHz Wireless Gaming Adapter	MODEL	WAP-G06
MODE	Channel 1	FREQUENCY RANGE	1000~25000MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION & BANDWIDTH	Peak (PK) Average (AV) 1 MHz
ENVIRONMENTAL CONDITIONS	28 deg. C, 55%RH, 970 hPa	TESTED BY	Wen Yu

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	2360.00	45.90 PK	74.00	-28.10	1.21 H	3	15.30	30.60
2	2390.00	48.80 PK	74.00	-25.20	1.48 H	219	15.00	33.80
3	*2412.00	104.80 PK			1.47 H	218	74.90	29.90
3	*2412.00	98.30 AV			1.47 H	218	68.40	29.90
4	2688.00	43.60 PK	74.00	-30.40	1.23 H	10	12.70	30.90
5	4824.00	45.70 PK	74.00	-28.30	1.48 H	301	9.50	36.20
6	7236.00	50.40 PK	74.00	-23.60	1.76 H	305	8.80	41.70
7	9648.00	50.00 PK	74.00	-24.00	1.18 H	295	5.10	44.90

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	2360.00	56.70 PK	74.00	-17.30	1.24 V	2	26.00	30.60
1	2360.00	48.10 AV	54.00	-5.90	1.24 V	2	17.50	30.60
2	2390.00	59.60 PK	74.00	-14.40	1.01 V	330	25.80	33.80
2	2390.00	51.80 AV	54.00	-2.20	1.01 V	330	18.00	33.80
3	*2412.00	114.90 PK			1.00 V	329	85.00	29.90
3	*2412.00	107.80 AV			1.00 V	329	77.90	29.90
4	2688.00	53.30 PK	74.00	-20.70	1.27 V	348	22.40	30.90
4	2688.00	50.30 AV	54.00	-3.70	1.27 V	348	19.40	30.90
5	4824.00	50.10 PK	74.00	-23.90	1.49 V	326	13.80	36.20
6	7236.00	49.50 PK	74.00	-24.50	1.17 V	318	7.80	41.70
7	9648.00	49.70 PK	74.00	-24.30	1.18 V	41	4.80	44.90

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
 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. The limit value is defined as per 15.247
 6. “ * “ : Fundamental frequency



EUT	802.11g/2.4GHz Wireless Gaming Adapter	MODEL	WAP-G06
MODE	Channel 6	FREQUENCY RANGE	1000~25000MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION & BANDWIDTH	Peak (PK) Average (AV) 1 MHz
ENVIRONMENTAL CONDITIONS	28 deg. C, 55%RH, 970 hPa	TESTED BY	Wen Yu

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	2360.00	51.30 PK	74.00	-22.70	1.76 H	116	20.70	30.60
1	2360.00	38.00 AV	54.00	-16.00	1.76 H	116	7.30	30.60
2	*2437.00	105.10 PK			1.44 H	213	75.20	30.00
2	*2437.00	98.10 AV			1.44 H	213	68.20	30.00
3	2688.00	45.70 PK	74.00	-28.30	1.42 H	251	14.80	30.90
4	4874.00	46.00 PK	74.00	-28.00	1.78 H	106	9.50	36.50
5	7311.00	49.40 PK	74.00	-24.60	1.62 H	307	7.70	41.80
6	9748.00	49.30 PK	74.00	-24.70	1.11 H	54	4.60	44.60

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	2360.00	58.80 PK	74.00	-15.20	1.28 V	3	28.10	30.60
1	2360.00	47.10 AV	54.00	-6.90	1.28 V	3	16.40	30.60
2	*2437.00	114.90 PK			1.15 V	335	84.90	30.00
2	*2437.00	107.50 AV			1.15 V	335	77.50	30.00
3	2688.00	52.90 PK	74.00	-21.10	1.27 V	349	22.10	30.90
3	2688.00	49.90 AV	54.00	-4.10	1.27 V	349	19.10	30.90
4	4874.00	51.80 PK	74.00	-22.20	1.33 V	339	15.40	36.50
4	4874.00	40.60 AV	54.00	-13.40	1.33 V	339	4.10	36.50
5	7311.00	50.60 PK	74.00	-23.40	1.71 V	17	8.80	41.80
6	9748.00	49.10 PK	74.00	-24.90	1.40 V	43	4.50	44.60

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
 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. The limit value is defined as per 15.247
 6. “ * “ : Fundamental frequency



EUT	802.11g/2.4GHz Wireless Gaming Adapter	MODEL	WAP-G06
MODE	Channel 11	FREQUENCY RANGE	1000~25000MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION & BANDWIDTH	Peak (PK) Average (AV) 1 MHz
ENVIRONMENTAL CONDITIONS	28 deg. C, 55%RH, 970 hPa	TESTED BY	Wen Yu

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	2360.00	52.30 PK	74.00	-21.70	1.47 H	134	21.70	30.60
1	2360.00	37.50 AV	54.00	-16.50	1.47 H	134	6.80	30.60
2	*2462.00	99.90 PK			1.43 H	215	69.80	30.10
2	*2462.00	93.50 AV			1.43 H	215	63.40	30.10
3	2483.50	45.40 PK	74.00	-28.60	1.44 H	216	15.30	30.10
4	2487.00	45.20 PK	74.00	-28.80	1.38 H	227	15.00	30.10
5	2688.00	44.70 PK	74.00	-29.30	1.26 H	125	13.90	30.90
6	4924.00	46.70 PK	74.00	-27.30	1.10 H	168	10.00	36.70
7	7386.00	49.90 PK	74.00	-24.10	1.53 H	320	8.10	41.80
8	9848.00	50.70 PK	74.00	-23.30	1.18 H	144	6.40	44.40

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	2360.00	61.80 PK	74.00	-12.20	1.21 V	1	31.20	30.60
1	2360.00	48.30 AV	54.00	-5.70	1.21 V	1	17.60	30.60
2	*2462.00	114.90 PK			1.18 V	1	84.80	30.10
2	*2462.00	107.20 AV			1.18 V	1	77.10	30.10
3	2483.50	60.40 PK	74.00	-13.60	1.19 V	2	30.30	30.10
3	2483.50	52.80 AV	54.00	-1.20	1.19 V	2	22.60	30.10
4	2487.00	60.20 PK	74.00	-13.80	1.03 V	35	30.00	30.10
4	2487.00	52.50 AV	54.00	-1.50	1.03 V	35	22.30	30.10
5	2688.00	50.90 PK	74.00	-23.10	1.07 V	13	20.00	30.90
6	4924.00	52.20 PK	74.00	-21.80	1.33 V	327	15.50	36.70
6	4924.00	40.50 AV	54.00	-13.50	1.33 V	327	3.80	36.70
7	7386.00	51.50 PK	74.00	-22.50	1.04 V	160	9.70	41.80
7	7386.00	41.70 AV	54.00	-12.30	1.04 V	160	-0.10	41.80
8	9848.00	51.80 PK	74.00	-22.20	1.28 V	65	7.40	44.40
8	9848.00	39.60 AV	54.00	-14.40	1.28 V	65	-4.80	44.40

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
 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. The limit value is defined as per 15.247
 6. " * " : Fundamental frequency



4.2.8 TEST RESULTS – Antenna 2, DSSS

EUT	802.11g/2.4GHz Wireless Gaming Adapter	MODEL	WAP-G06
MODE	Channel 1	FREQUENCY RANGE	1000~25000MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION & BANDWIDTH	Peak (PK) Average (AV) 1 MHz
ENVIRONMENTAL CONDITIONS	30 deg. C, 55%RH, 970 hPa	TESTED BY	Wen Yu

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	2360.00	51.10 PK	74.00	-22.90	1.00 H	351	20.50	30.60
1	2360.00	43.70 AV	54.00	-10.30	1.00 H	351	13.10	30.60
2	2390.00	53.40 PK	74.00	-20.60	1.21 H	353	19.60	33.80
2	2390.00	46.50 AV	54.00	-7.50	1.21 H	353	12.70	33.80
3	*2412.00	109.50 PK			1.20 H	352	79.60	29.90
3	*2412.00	102.60 AV			1.20 H	352	72.70	29.90
4	4824.00	46.80 PK	74.00	-27.20	1.04 H	343	10.60	36.20
5	7236.00	48.00 PK	74.00	-26.00	1.00 H	9	6.30	41.70
6	9648.00	50.60 PK	74.00	-23.40	1.28 H	12	5.60	44.90

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	2360.00	48.00 PK	74.00	-26.00	1.52 V	22	17.30	30.60
2	2390.00	45.80 PK	74.00	-28.20	1.47 V	357	12.00	33.80
3	*2412.00	101.90 PK			1.46 V	356	72.00	29.90
3	*2412.00	94.70 AV			1.46 V	356	64.80	29.90
4	4824.00	50.30 PK	74.00	-23.70	1.34 V	356	14.10	36.20
5	7236.00	50.80 PK	74.00	-23.20	1.69 V	316	9.10	41.70
6	9648.00	52.00 PK	74.00	-22.00	1.67 V	325	7.10	44.90
6	9648.00	40.90 AV	54.00	-13.10	1.67 V	325	-4.00	44.90

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
 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. The limit value is defined as per 15.247
 6. " * " : Fundamental frequency



EUT	802.11g/2.4GHz Wireless Gaming Adapter	MODEL	WAP-G06
MODE	Channel 6	FREQUENCY RANGE	1000~25000MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION & BANDWIDTH	Peak (PK) Average (AV) 1 MHz
ENVIRONMENTAL CONDITIONS	30 deg. C, 55%RH, 970 hPa	TESTED BY	Wen Yu

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	2360.00	57.00 PK	74.00	-17.00	1.00 H	331	26.40	30.60
1	2360.00	44.10 AV	54.00	-9.90	1.00 H	331	13.40	30.60
2	*2437.00	108.70 PK			1.44 H	350	78.70	30.00
2	*2437.00	101.70 AV			1.44 H	350	71.80	30.00
3	4874.00	45.90 PK	74.00	-28.10	1.41 H	343	9.40	36.50
4	7311.00	48.80 PK	74.00	-25.20	1.10 H	296	7.00	41.80
5	9748.00	50.80 PK	74.00	-23.20	1.31 H	241	6.20	44.60

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	2360.00	52.20 PK	74.00	-21.80	1.32 V	19	21.60	30.60
1	2360.00	39.20 AV	54.00	-14.80	1.32 V	19	8.60	30.60
2	*2437.00	103.60 PK			1.23 V	9	73.70	30.00
2	*2437.00	97.10 AV			1.23 V	9	67.10	30.00
3	4874.00	49.80 PK	74.00	-24.20	1.47 V	333	13.30	36.50
4	7311.00	48.90 PK	74.00	-25.10	1.00 V	306	7.10	41.80
5	9748.00	50.30 PK	74.00	-23.70	1.47 V	320	5.70	44.60

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
 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. The limit value is defined as per 15.247
 6. “ * “ : Fundamental frequency



EUT	802.11g/2.4GHz Wireless Gaming Adapter	MODEL	WAP-G06
MODE	Channel 11	FREQUENCY RANGE	1000~25000MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION & BANDWIDTH	Peak (PK) Average (AV) 1 MHz
ENVIRONMENTAL CONDITIONS	30 deg. C, 55%RH, 970 hPa	TESTED BY	Wen Yu

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	2360.00	55.80 PK	74.00	-18.20	1.00 H	347	25.20	30.60
1	2360.00	43.30 AV	54.00	-10.70	1.00 H	347	12.70	30.60
2	*2462.00	108.50 PK			1.44 H	328	78.40	30.10
2	*2462.00	101.10 AV			1.44 H	328	71.10	30.10
3	2483.50	54.10 PK	74.00	-19.90	1.43 H	329	23.90	30.10
3	2483.50	46.70 AV	54.00	-7.30	1.43 H	329	16.50	30.10
4	2487.00	53.80 PK	74.00	-20.20	1.26 H	330	23.60	30.10
4	2487.00	46.40 AV	54.00	-7.60	1.26 H	330	16.30	30.10
5	4924.00	46.80 PK	74.00	-27.20	1.23 H	345	10.10	36.70
6	7386.00	49.80 PK	74.00	-24.20	1.12 H	359	8.00	41.80
7	9848.00	51.70 PK	74.00	-22.30	1.16 H	316	7.40	44.40
7	9848.00	40.00 AV	54.00	-14.00	1.16 H	316	-4.40	44.40

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	2360.00	52.60 PK	74.00	-21.40	1.05 V	20	22.00	30.60
1	2360.00	39.10 AV	54.00	-14.90	1.05 V	20	8.50	30.60
2	*2462.00	102.20 PK			1.00 V	334	72.10	30.10
2	*2462.00	95.10 AV			1.00 V	334	65.00	30.10
3	2483.50	47.70 PK	74.00	-26.30	1.02 V	335	17.60	30.10
4	2487.00	47.40 PK	74.00	-26.60	1.15 V	318	17.30	30.10
5	4924.00	48.50 PK	74.00	-25.50	1.42 V	344	11.80	36.70
6	7386.00	48.70 PK	74.00	-25.30	1.06 V	295	6.90	41.80
7	9848.00	51.30 PK	74.00	-22.70	1.45 V	319	6.90	44.40
7	9848.00	42.30 AV	54.00	-11.70	1.45 V	319	-2.00	44.40

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
 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. The limit value is defined as per 15.247
 6. " * " : Fundamental frequency



4.2.9 TEST RESULTS - Antenna 1, OFDM

EUT	802.11g/2.4GHz Wireless Gaming Adapter	MODEL	WAP-G06
MODE	Channel 1	FREQUENCY RANGE	1000~25000MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION & BANDWIDTH	Peak (PK) Average (AV) 1 MHz
ENVIRONMENTAL CONDITIONS	28 deg. C, 55%RH, 970 hPa	TESTED BY	Wen Yu

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	2360.00	45.90 PK	74.00	-28.10	1.76 H	115	15.30	30.60
2	2390.00	47.60 PK	74.00	-26.40	1.24 H	203	13.80	33.80
3	*2412.00	96.80 PK			1.23 H	202	66.90	29.90
3	*2412.00	87.90 AV			1.23 H	202	58.00	29.90
4	2688.00	42.00 PK	74.00	-32.00	1.06 H	245	11.10	30.90
5	4824.00	43.40 PK	74.00	-30.60	1.20 H	344	7.20	36.20
6	7236.00	50.10 PK	74.00	-23.90	1.21 H	181	8.50	41.70
7	9648.00	50.00 PK	74.00	-24.00	1.12 H	49	5.10	44.90

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	2360.00	55.80 PK	74.00	-18.20	1.21 V	335	25.20	30.60
1	2360.00	47.30 AV	54.00	-6.70	1.21 V	335	16.70	30.60
2	2390.00	60.40 PK	74.00	-13.60	1.24 V	333	26.60	33.80
2	2390.00	52.30 AV	54.00	-1.70	1.24 V	333	18.50	33.80
3	*2412.00	109.60 PK			1.23 V	332	79.80	29.90
3	*2412.00	101.50 AV			1.23 V	332	71.60	29.90
4	2688.00	47.80 PK	74.00	-26.20	1.26 V	348	16.90	30.90
5	4824.00	46.30 PK	74.00	-27.70	1.00 V	136	10.10	36.20
6	7236.00	52.70 PK	74.00	-21.30	1.00 V	144	11.00	41.70
6	7236.00	38.50 AV	54.00	-15.50	1.00 V	144	-3.10	41.70
7	9648.00	49.90 PK	74.00	-24.10	1.00 V	0	5.00	44.90

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
 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. The limit value is defined as per 15.247
 6. " * " : Fundamental frequency



EUT	802.11g/2.4GHz Wireless Gaming Adapter	MODEL	WAP-G06
MODE	Channel 6	FREQUENCY RANGE	1000~25000MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION & BANDWIDTH	Peak (PK) Average (AV) 1 MHz
ENVIRONMENTAL CONDITIONS	28 deg. C, 55%RH, 970 hPa	TESTED BY	Wen Yu

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	2360.00	45.80 PK	74.00	-28.20	1.42 H	227	15.10	30.60
2	*2437.00	100.40 PK			1.43 H	216	70.40	30.00
2	*2437.00	92.10 AV			1.43 H	216	62.10	30.00
3	2688.00	42.30 PK	74.00	-31.70	1.20 H	124	11.40	30.90
4	4874.00	43.90 PK	74.00	-30.10	1.10 H	115	7.50	36.50
5	7311.00	48.20 PK	74.00	-25.80	1.18 H	33	6.40	41.80
6	9748.00	49.00 PK	74.00	-25.00	1.00 H	35	4.40	44.60

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	2360.00	55.10 PK	74.00	-18.90	1.22 V	4	24.40	30.60
1	2360.00	47.00 AV	54.00	-7.00	1.22 V	4	16.30	30.60
2	*2437.00	109.90 PK			1.51 V	154	79.90	30.00
2	*2437.00	101.60 AV			1.51 V	154	71.60	30.00
3	2688.00	47.70 PK	74.00	-26.30	1.28 V	348	16.90	30.90
4	4874.00	48.20 PK	74.00	-25.80	1.00 V	222	11.70	36.50
5	7311.00	50.40 PK	74.00	-23.60	1.47 V	148	8.60	41.80
6	9748.00	49.60 PK	74.00	-24.40	1.24 V	144	5.00	44.60

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
 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. The limit value is defined as per 15.247
 6. “ * “ : Fundamental frequency



EUT	802.11g/2.4GHz Wireless Gaming Adapter	MODEL	WAP-G06
MODE	Channel 11	FREQUENCY RANGE	1000~25000MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION & BANDWIDTH	Peak (PK) Average (AV) 1 MHz
ENVIRONMENTAL CONDITIONS	28 deg. C, 55%RH, 970 hPa	TESTED BY	Wen Yu

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	2360.00	45.60 PK	74.00	-28.40	1.22 H	2	14.90	30.60
2	*2462.00	99.80 PK			1.74 H	221	69.80	30.10
2	*2462.00	91.30 AV			1.74 H	221	61.20	30.10
3	2483.50	49.60 PK	74.00	-24.40	1.75 H	222	19.40	30.10
4	2688.00	42.30 PK	74.00	-31.70	1.33 H	124	11.40	30.90
5	4924.00	43.00 PK	74.00	-31.00	1.48 H	44	6.30	36.70
6	7386.00	49.30 PK	74.00	-24.70	1.41 H	297	7.50	41.80
7	9848.00	49.80 PK	74.00	-24.20	1.09 H	0	5.40	44.40

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	2360.00	54.70 PK	74.00	-19.30	1.47 V	0	24.10	30.60
1	2360.00	45.80 AV	54.00	-8.20	1.47 V	0	15.10	30.60
2	*2462.00	110.70 PK			1.19 V	2	80.70	30.10
2	*2462.00	102.70 AV			1.19 V	2	72.60	30.10
3	2483.50	60.50 PK	74.00	-13.50	1.20 V	3	30.30	30.10
3	2483.50	52.40 AV	54.00	-1.60	1.20 V	3	22.30	30.10
4	2688.00	47.70 PK	74.00	-26.30	1.28 V	350	16.80	30.90
5	4924.00	45.10 PK	74.00	-28.90	1.40 V	346	8.40	36.70
6	7386.00	48.60 PK	74.00	-25.40	1.69 V	143	6.70	41.80
7	9848.00	49.70 PK	74.00	-24.30	1.20 V	79	5.30	44.40

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
 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. The limit value is defined as per 15.247
 6. “ * “ : Fundamental frequency



EUT	802.11g/2.4GHz Wireless Gaming Adapter	MODEL	WAP-G06
MODE	Turbo Channel 6	FREQUENCY RANGE	1000~25000MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION & BANDWIDTH	Peak (PK) Average (AV) 1 MHz
ENVIRONMENTAL CONDITIONS	27 deg. C, 59%RH, 970 hPa	TESTED BY	Wen Yu

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	2360.00	45.90 PK	74.00	-28.10	1.47 H	125	15.30	30.60
2	*2437.00	93.60 PK			1.20 H	211	63.60	30.00
2	*2437.00	85.80 AV			1.20 H	211	55.80	30.00
3	2688.00	40.70 PK	74.00	-33.30	1.19 H	122	9.80	30.90
4	4874.00	42.60 PK	74.00	-31.40	1.34 H	54	6.20	36.50
5	7311.00	49.00 PK	74.00	-25.00	1.47 H	355	7.20	41.80
6	9748.00	50.40 PK	74.00	-23.60	1.26 H	305	5.70	44.60

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	2360.00	52.30 PK	74.00	-21.70	1.00 V	326	21.60	30.60
1	2360.00	46.10 AV	54.00	-7.90	1.00 V	326	15.40	30.60
2	*2437.00	103.20 PK			1.46 V	14	73.20	30.00
2	*2437.00	95.00 AV			1.46 V	14	65.00	30.00
3	2688.00	43.30 PK	74.00	-30.70	1.07 V	20	12.40	30.90
4	4824.00	42.60 PK	74.00	-31.40	1.00 V	335	6.30	36.20
5	7311.00	48.10 PK	74.00	-25.90	1.25 V	233	6.40	41.80
6	9748.00	49.40 PK	74.00	-24.60	1.13 V	267	4.80	44.60

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
 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. The limit value is defined as per 15.247
 6. " * " : Fundamental frequency



4.2.10 TEST RESULTS - Antenna 2, OFDM

EUT	802.11g/2.4GHz Wireless Gaming Adapter	MODEL	WAP-G06
MODE	Channel 1	FREQUENCY RANGE	1000~25000MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION & BANDWIDTH	Peak (PK) Average (AV) 1 MHz
ENVIRONMENTAL CONDITIONS	30 deg. C, 55%RH, 970 hPa	TESTED BY	Wen Yu

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	2360.00	52.40 PK	74.00	-21.60	1.00 H	333	21.80	30.60
1	2360.00	42.40 AV	54.00	-11.60	1.00 H	333	11.80	30.60
2	2390.00	55.00 PK	74.00	-19.00	1.21 H	332	21.20	33.80
2	2390.00	46.60 AV	54.00	-7.40	1.21 H	332	12.80	33.80
3	*2412.00	104.30 PK			1.20 H	331	74.40	29.90
3	*2412.00	95.80 AV			1.20 H	331	65.90	29.90
4	4824.00	42.70 PK	74.00	-31.30	1.39 H	10	6.50	36.20
5	7236.00	48.30 PK	74.00	-25.70	1.23 H	160	6.70	41.70
6	9648.00	51.00 PK	74.00	-23.00	1.11 H	228	6.10	44.90
6	9648.00	39.40 AV	54.00	-14.60	1.11 H	228	-5.50	44.90

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	2360.00	43.00 PK	74.00	-31.00	1.95 V	27	12.30	30.60
2	2390.00	50.30 PK	74.00	-23.70	1.01 V	5	16.50	33.80
3	*2412.00	99.50 PK			1.00 V	4	69.60	29.90
3	*2412.00	91.00 AV			1.00 V	4	61.10	29.90
4	4824.00	44.90 PK	74.00	-29.10	1.08 V	202	8.70	36.20
5	7236.00	49.50 PK	74.00	-24.50	1.55 V	22	7.80	41.70
6	9648.00	50.10 PK	74.00	-23.90	1.25 V	291	5.20	44.90

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
 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. The limit value is defined as per 15.247
 6. " * " : Fundamental frequency



EUT	802.11g/2.4GHz Wireless Gaming Adapter	MODEL	WAP-G06
MODE	Channel 6	FREQUENCY RANGE	1000~25000MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION & BANDWIDTH	Peak (PK) Average (AV) 1 MHz
ENVIRONMENTAL CONDITIONS	30 deg. C, 55%RH, 970 hPa	TESTED BY	Wen Yu

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	2360.00	53.00 PK	74.00	-21.00	1.00 H	336	22.40	30.60
1	2360.00	42.40 AV	54.00	-11.60	1.00 H	336	11.80	30.60
2	*2437.00	104.50 PK			1.00 H	325	74.50	30.00
2	*2437.00	95.60 AV			1.00 H	325	65.60	30.00
3	4874.00	42.60 PK	74.00	-31.40	1.29 H	39	6.10	36.50
4	7311.00	48.90 PK	74.00	-25.10	1.01 H	16	7.10	41.80
5	9748.00	50.30 PK	74.00	-23.70	1.27 H	139	5.70	44.60

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	2360.00	52.00 PK	74.00	-22.00	1.28 V	16	21.30	30.60
1	2360.00	37.70 AV	54.00	-16.30	1.28 V	16	7.10	30.60
2	*2437.00	97.10 PK			1.35 V	326	67.20	30.00
2	*2437.00	89.00 AV			1.35 V	326	59.10	30.00
3	4874.00	43.80 PK	74.00	-30.20	1.47 V	335	7.40	36.50
4	7311.00	48.30 PK	74.00	-25.70	1.07 V	285	6.60	41.80
5	9748.00	50.30 PK	74.00	-23.70	1.22 V	215	5.60	44.60

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
 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. The limit value is defined as per 15.247
 6. “ * “ : Fundamental frequency



EUT	802.11g/2.4GHz Wireless Gaming Adapter	MODEL	WAP-G06
MODE	Channel 11	FREQUENCY RANGE	1000~25000MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION & BANDWIDTH	Peak (PK) Average (AV) 1 MHz
ENVIRONMENTAL CONDITIONS	30 deg. C, 55%RH, 970 hPa	TESTED BY	Wen Yu

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	2360.00	49.90 PK	74.00	-24.10	1.00 H	336	19.30	30.60
2	*2462.00	103.10 PK			1.43 H	0	73.10	30.10
2	*2462.00	95.30 AV			1.43 H	0	65.20	30.10
3	2483.50	52.90 PK	74.00	-21.10	1.44 H	1	22.70	30.10
3	2483.50	45.00 AV	54.00	-9.00	1.44 H	1	14.90	30.10
4	4924.00	42.60 PK	74.00	-31.40	1.01 H	0	5.90	36.70
5	7386.00	48.80 PK	74.00	-25.20	1.14 H	46	7.00	41.80
6	9848.00	49.90 PK	74.00	-24.10	1.24 H	121	5.50	44.40

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	2360.00	45.50 PK	74.00	-28.50	1.28 V	13	14.90	30.60
2	*2462.00	96.70 PK			1.31 V	326	66.60	30.10
2	*2462.00	88.20 AV			1.31 V	326	58.10	30.10
3	2483.50	46.50 PK	74.00	-27.50	1.32 V	327	16.30	30.10
4	4924.00	43.50 PK	74.00	-30.50	1.00 V	336	6.80	36.70
5	7386.00	48.70 PK	74.00	-25.30	1.53 V	254	6.90	41.80
6	9848.00	50.30 PK	74.00	-23.70	1.34 V	171	5.90	44.40

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
 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. The limit value is defined as per 15.247
 6. " * " : Fundamental frequency



EUT	802.11g/2.4GHz Wireless Gaming Adapter	MODEL	WAP-G06
MODE	Turbo Channel 6	FREQUENCY RANGE	1000~25000MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION & BANDWIDTH	Peak (PK) Average (AV) 1 MHz
ENVIRONMENTAL CONDITIONS	27 deg. C, 59%RH, 970 hPa	TESTED BY	Wen Yu

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	2360.00	48.20 PK	74.00	-25.80	1.20 H	316	17.60	30.60
2	*2437.00	98.20 PK			1.26 H	147	68.20	30.00
2	*2437.00	90.00 AV			1.26 H	147	60.00	30.00
3	4824.00	41.60 PK	74.00	-32.40	1.08 H	305	5.30	36.20
4	7311.00	49.10 PK	74.00	-24.90	1.05 H	203	7.40	41.80
5	9748.00	47.90 PK	74.00	-26.10	1.23 H	67	3.30	44.60

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	2360.00	44.60 PK	74.00	-29.40	1.27 V	317	14.00	30.60
2	*2437.00	90.60 PK			1.20 V	211	60.60	30.00
2	*2437.00	82.80 AV			1.20 V	211	52.80	30.00
3	4874.00	42.40 PK	74.00	-31.60	1.57 V	287	5.90	36.50
4	7311.00	45.00 PK	74.00	-29.00	1.17 V	105	3.20	41.80
5	9748.00	48.40 PK	74.00	-25.60	1.06 V	115	3.70	44.60

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
 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. The limit value is defined as per 15.247
 6. “ * “ : Fundamental frequency



4.3 6dB BANDWIDTH MEASUREMENT

4.3.1 LIMITS OF 6dB BANDWIDTH MEASUREMENT

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

4.3.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
R&S SPECTRUM ANALYZER	FSP40	100036	Nov. 27, 2004

NOTE:

- 1.The measurement uncertainty is less than +/- 2.6dB, which is calculated as per the NAMAS document NIS81.
- 2.The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

4.3.3 TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 100 kHz RBW and 100 kHz VBW. The 6 dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6 dB.

4.3.4 TEST SETUP



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

4.3.5 EUT OPERATING CONDITIONS

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



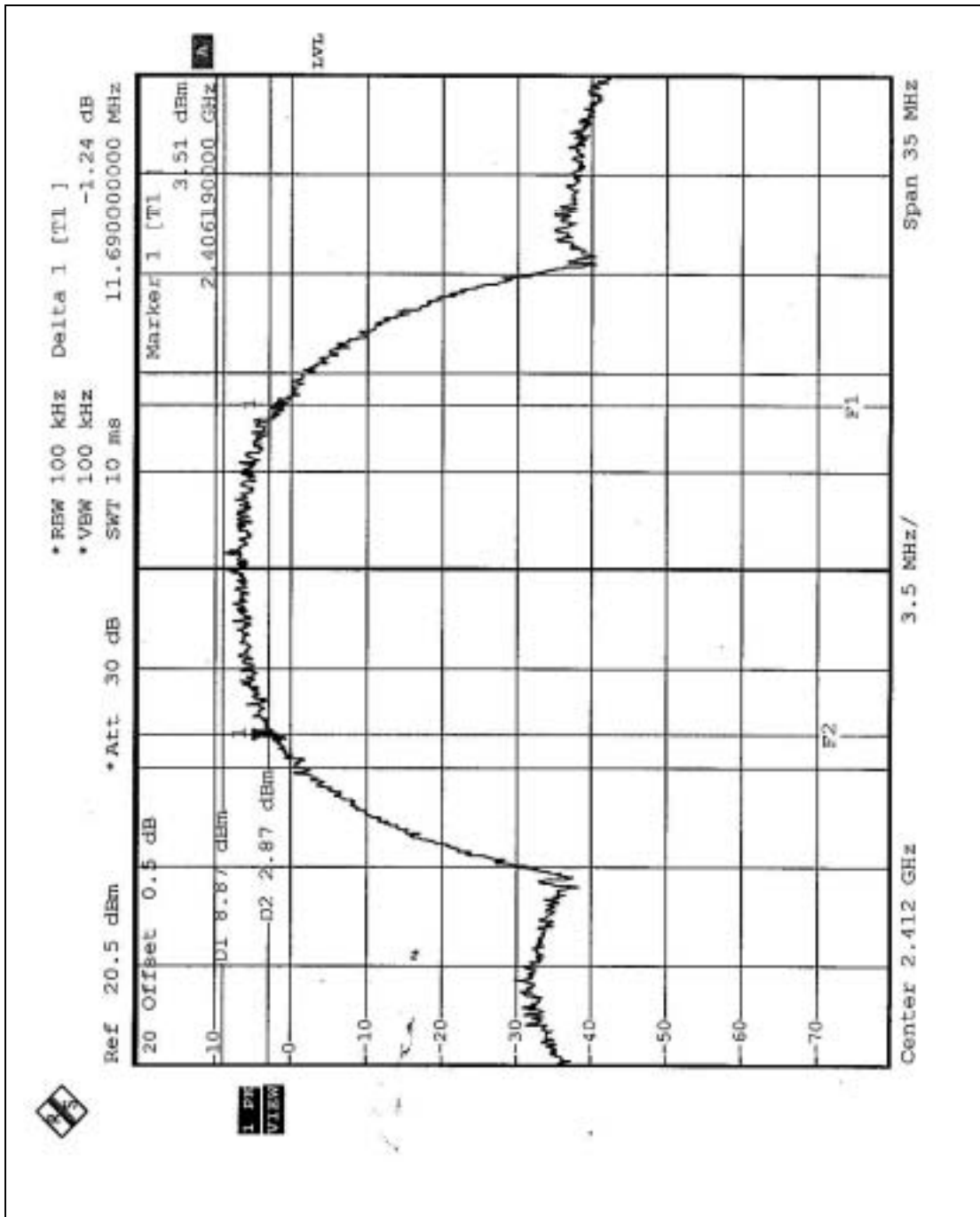
4.3.6 TEST RESULTS-DSSS

EUT	802.11g/2.4GHz Wireless Gaming Adapter		
MODEL	WAP-G06	ENVIRONMENTAL CONDITIONS	24 deg. C, 64%RH, 970 hPa
INPUT POWER (SYSTEM)	120Vac, 60 Hz	TESTED BY	Wen Yu

CHANNEL	CHANNEL FREQUENCY (MHz)	6 dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS/FAIL
1	2412	11.69	0.5	PASS
6	2437	12.39	0.5	PASS
11	2462	11.69	0.5	PASS

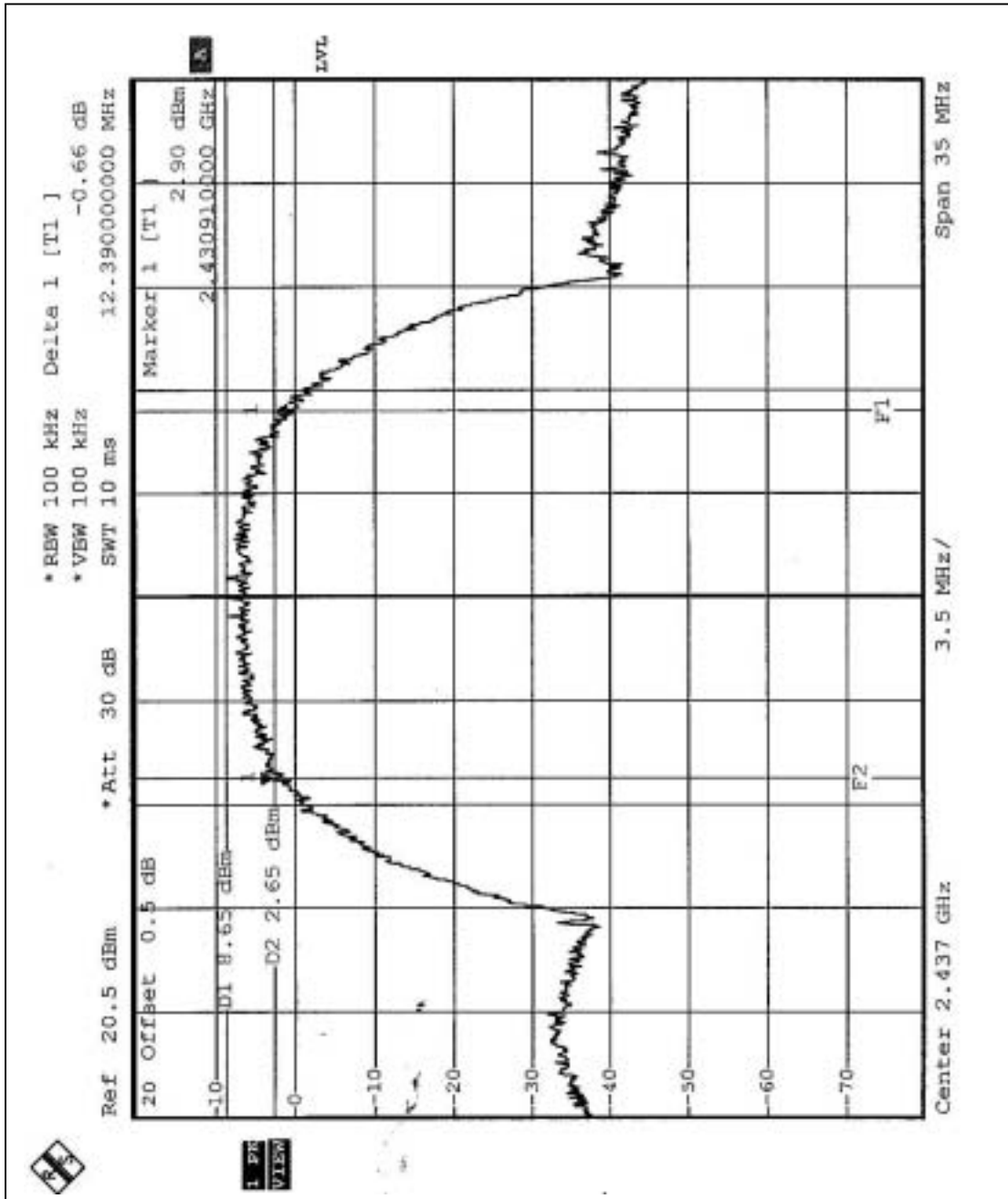


CH1



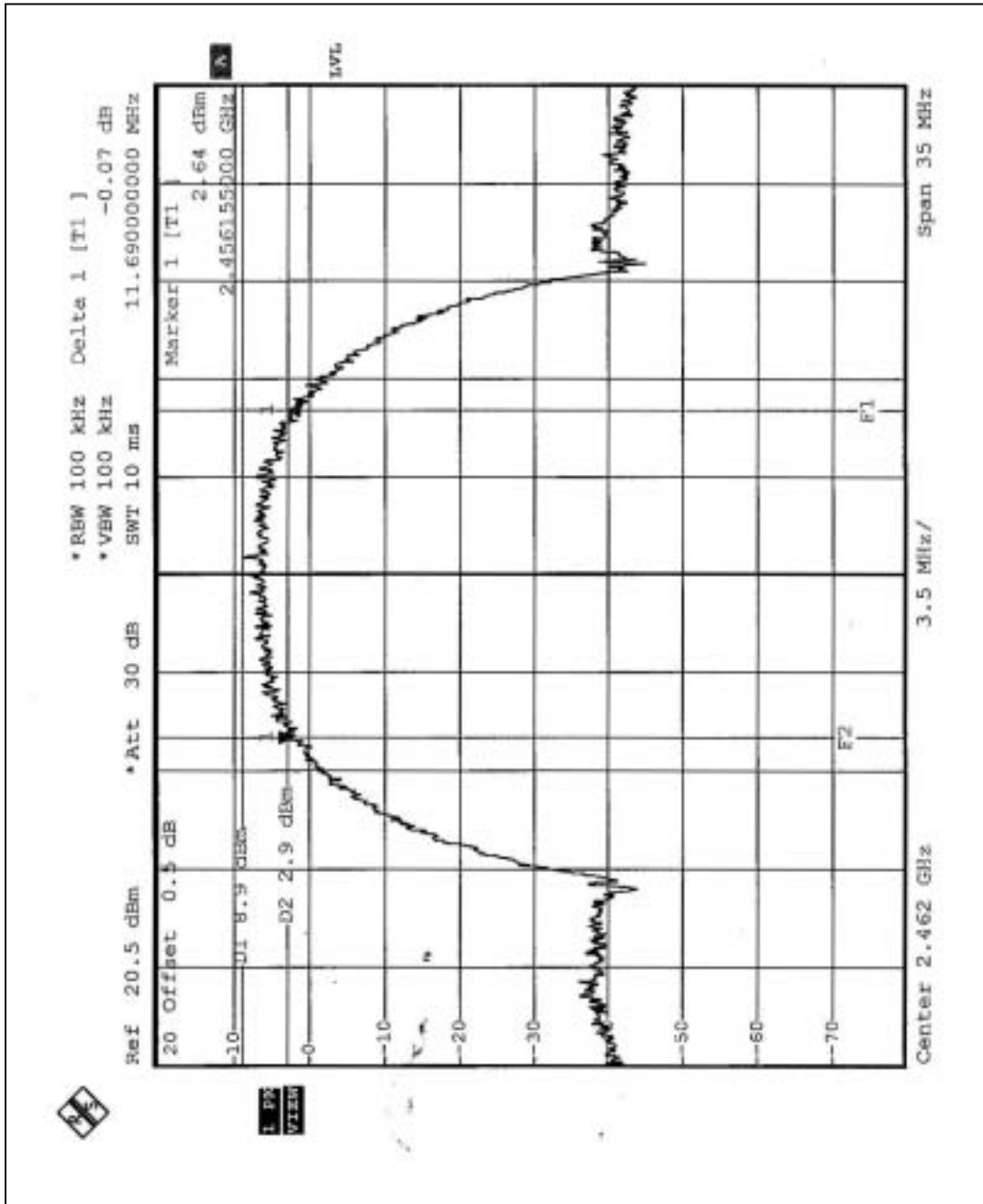


CH6





CH11





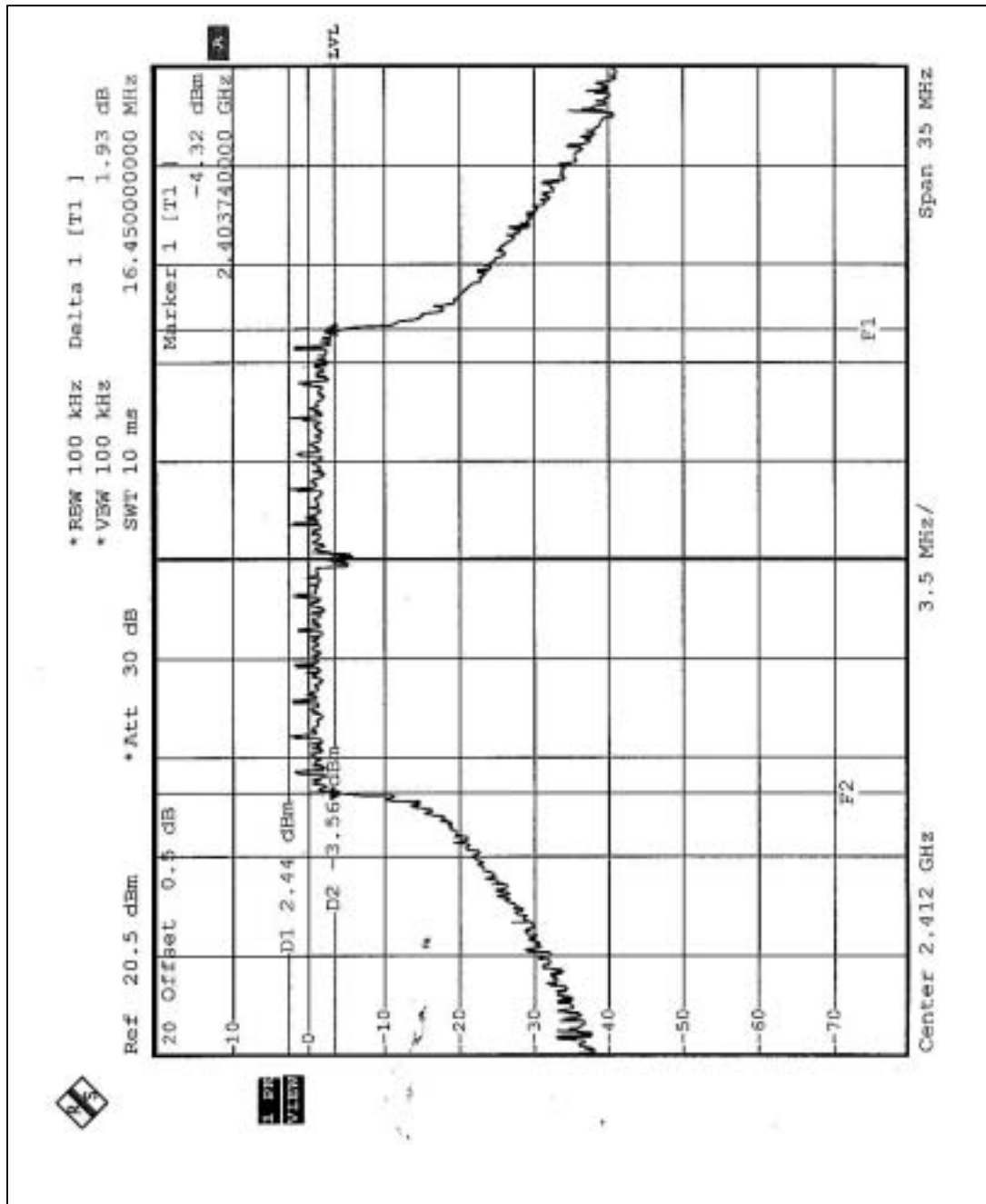
4.3.7 TEST RESULTS-OFDM

EUT	802.11g/2.4GHz Wireless Gaming Adapter		
MODEL	WAP-G06	ENVIRONMENTAL CONDITIONS	24 deg. C, 64%RH, 970 hPa
INPUT POWER (SYSTEM)	120Vac, 60 Hz	TESTED BY	Wen Yu

CHANNEL	CHANNEL FREQUENCY (MHz)	6 dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS/FAIL
1	2412	16.45	0.5	PASS
6	2437	16.45	0.5	PASS
11	2462	16.38	0.5	PASS
Turbo 6	2437	33.12	0.5	PASS

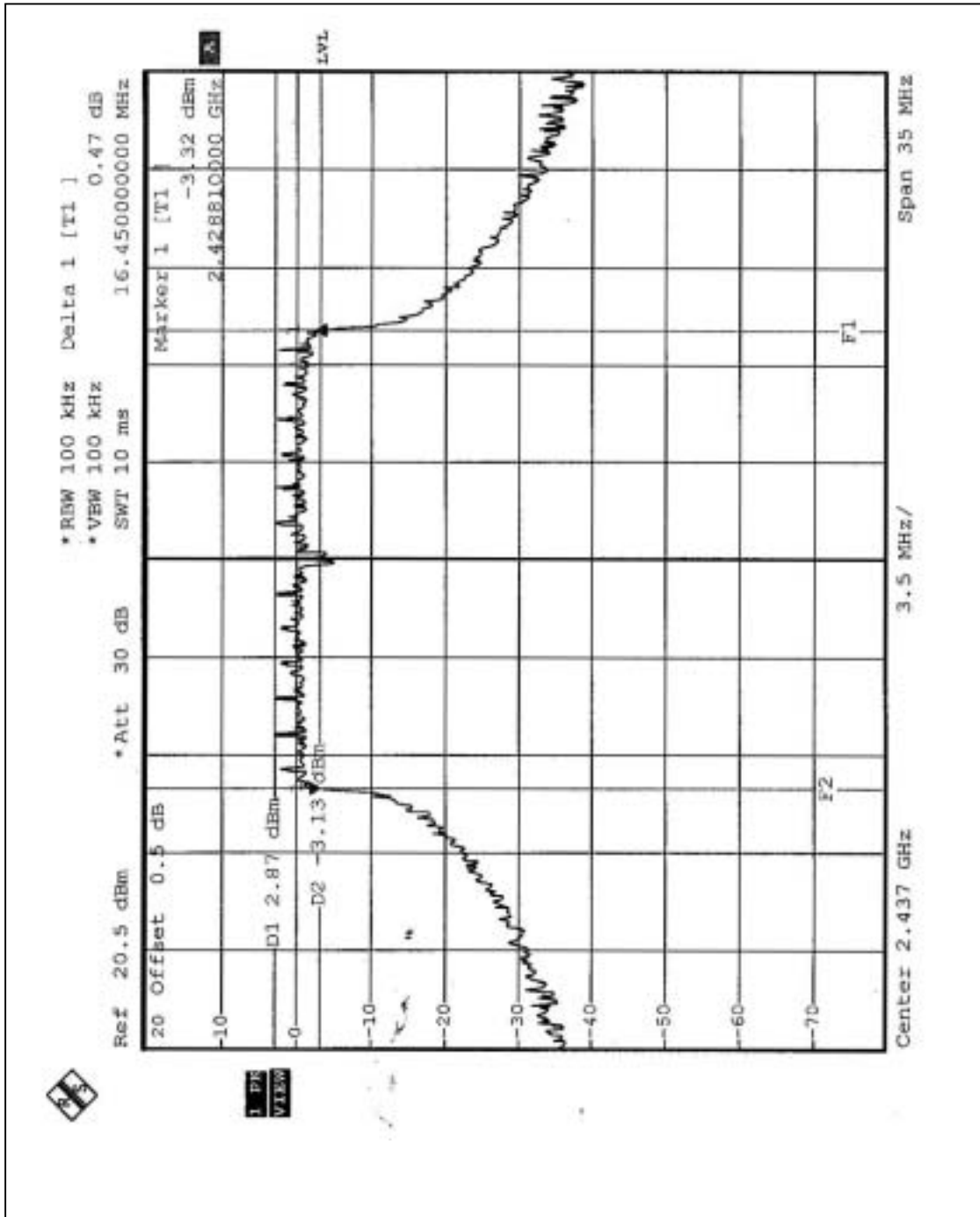


CH1



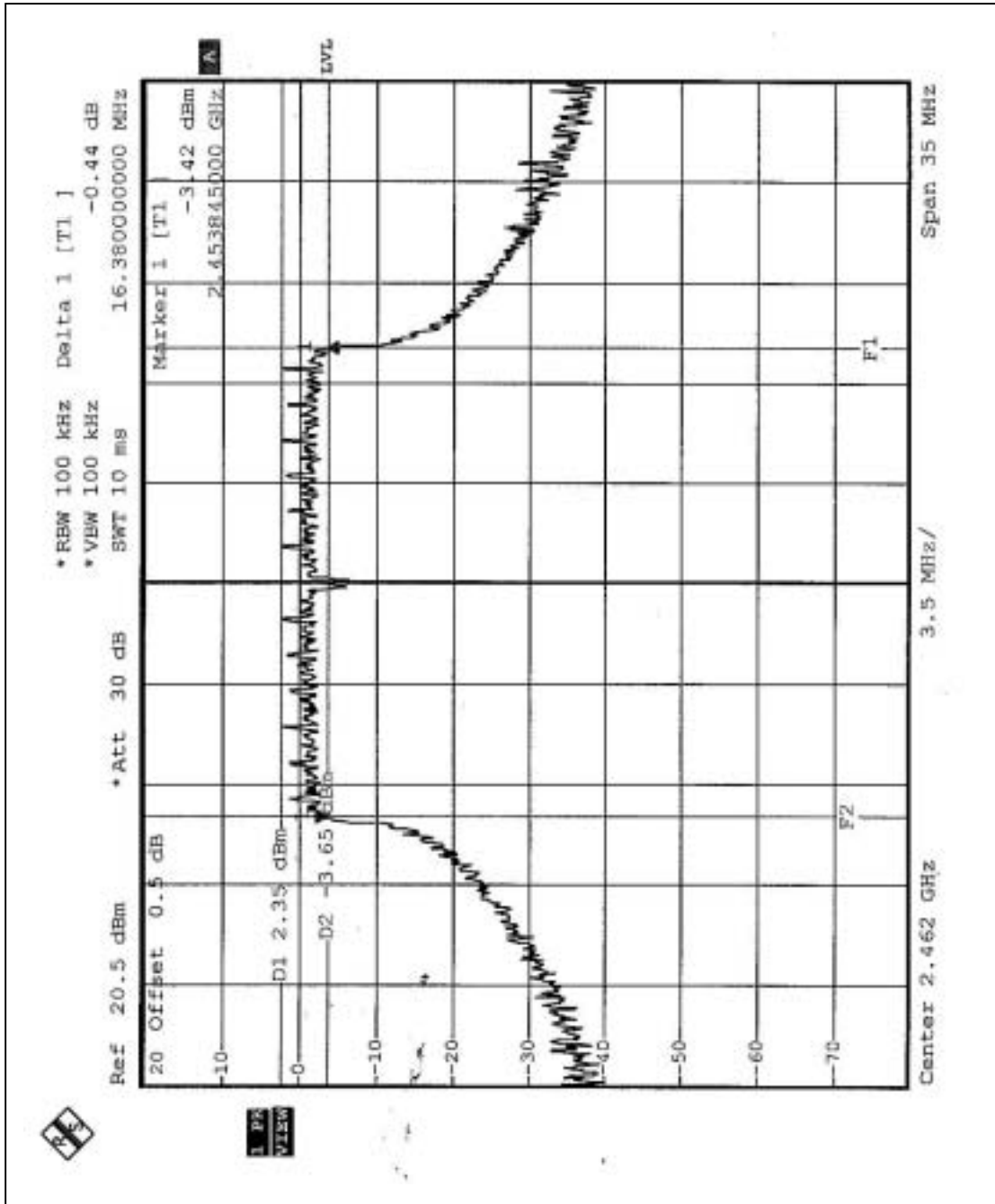


CH6



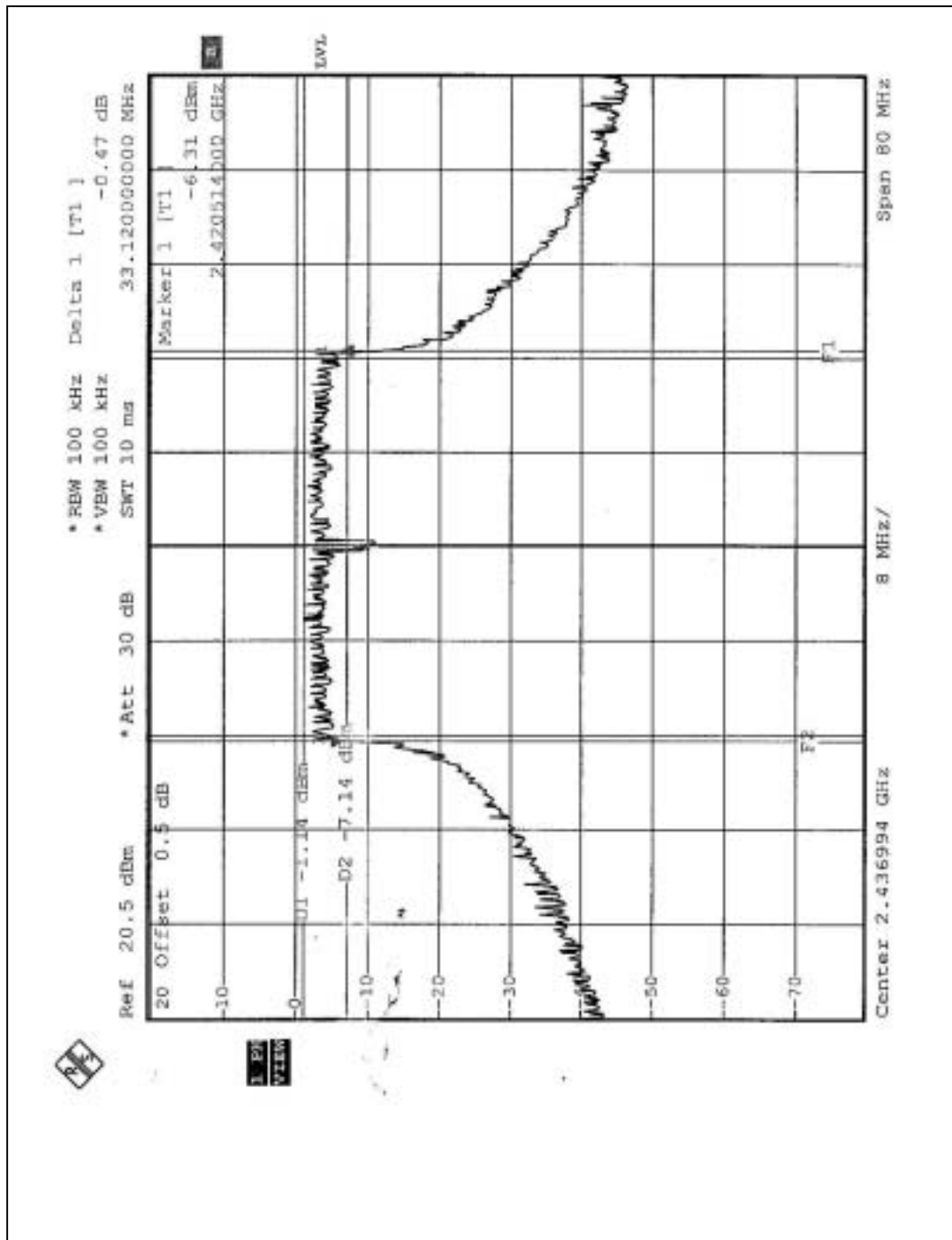


CH11





Turbo CH6





4.4 MAXIMUM PEAK OUTPUT POWER

4.4.1 LIMITS OF MAXIMUM PEAK OUTPUT POWER MEASUREMENT

The Maximum Peak Output Power Measurement is 30dBm.

4.4.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
R&S SPECTRUM ANALYZER	FSP40	100036	Nov. 27, 2004
Agilent SIGNAL GENERATOR	E8257C	MY43320668	Jan. 1, 2005
TEKTRONIX OSCILLOSCOPE	TDS 220	B027241	Jun. 30, 2005
NARDA DETECTOR	4503A	FSCM99899	NA

NOTE:

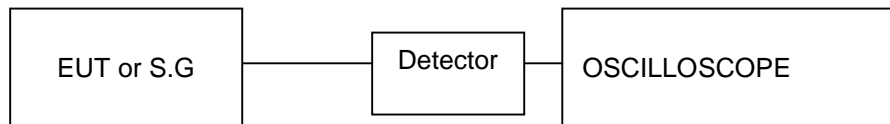
The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.



4.4.3 TEST PROCEDURES

1. A detector was used on the output port of the EUT. An oscilloscope was used to read the peak response of the detector.
2. Replaced the EUT by the signal generator. The center frequency of the S.G was adjusted to the center frequency of the measured channel.
3. Adjusted the power to have the same peak reading on oscilloscope. Record the power level.

4.4.4 TEST SETUP



4.4.5 EUT OPERATING CONDITIONS

Same as Item 4.3.5



4.4.6 TEST RESULTS- DSSS

EUT	802.11g/2.4GHz Wireless Gaming Adapter		
MODEL	WAP-G06	ENVIRONMENTAL CONDITIONS	24 deg. C, 64%RH, 970 hPa
INPUT POWER (SYSTEM)	120Vac, 60 Hz	TESTED BY	Wen Yu

Antenna 1 (Gain 2.0dBi)

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
1	2412	20	30	PASS
6	2437	20	30	PASS
11	2462	20	30	PASS

Antenna 2 (Gain 0dBi)

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
1	2412	20	30	PASS
6	2437	20	30	PASS
11	2462	20	30	PASS



4.4.7 TEST RESULTS- OFDM

EUT	802.11g/2.4GHz Wireless Gaming Adapter		
MODEL	WAP-G06	ENVIRONMENTAL CONDITIONS	24 deg. C, 64%RH, 970 hPa
INPUT POWER (SYSTEM)	120Vac, 60 Hz	TESTED BY	Wen Yu

Antenna 1 (Gain 2.0dBi)

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
1	2412	20	30	PASS
6	2437	20	30	PASS
11	2462	20	30	PASS
Turbo 6	2437	20	30	PASS

Antenna 2 (Gain 0dBi)

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
1	2412	20	30	PASS
6	2437	20	30	PASS
11	2462	20	30	PASS
Turbo 6	2437	20	30	PASS



4.5 POWER SPECTRAL DENSITY MEASUREMENT

4.5.1 LIMITS OF POWER SPECTRAL DENSITY MEASUREMENT

The Maximum of Power Spectral Density Measurement is 8dBm.

4.5.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
R&S SPECTRUM ANALYZER	FSP40	100036	Nov. 27, 2004

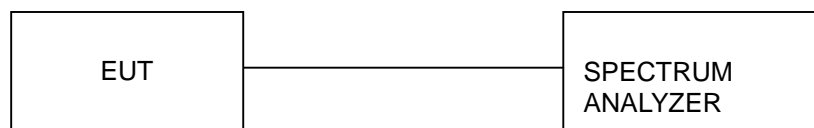
NOTE:

- 1.The measurement uncertainty is less than +/- 2.6dB, which is calculated as per the NAMAS document NIS81.
- 2.The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

4.5.3 TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer through an attenuator, the bandwidth of the fundamental frequency was measured with the spectrum analyzer using 3 kHz RBW and 30 kHz VBW, set sweep time=span/3kHz. The power spectral density was measured and recorded. The sweep time is allowed to be longer than span/3KHz for a full response of the mixer in the spectrum analyzer.

4.5.4 TEST SETUP



4.5.5 EUT OPERATING CONDITIONS

Same as 4.3.5



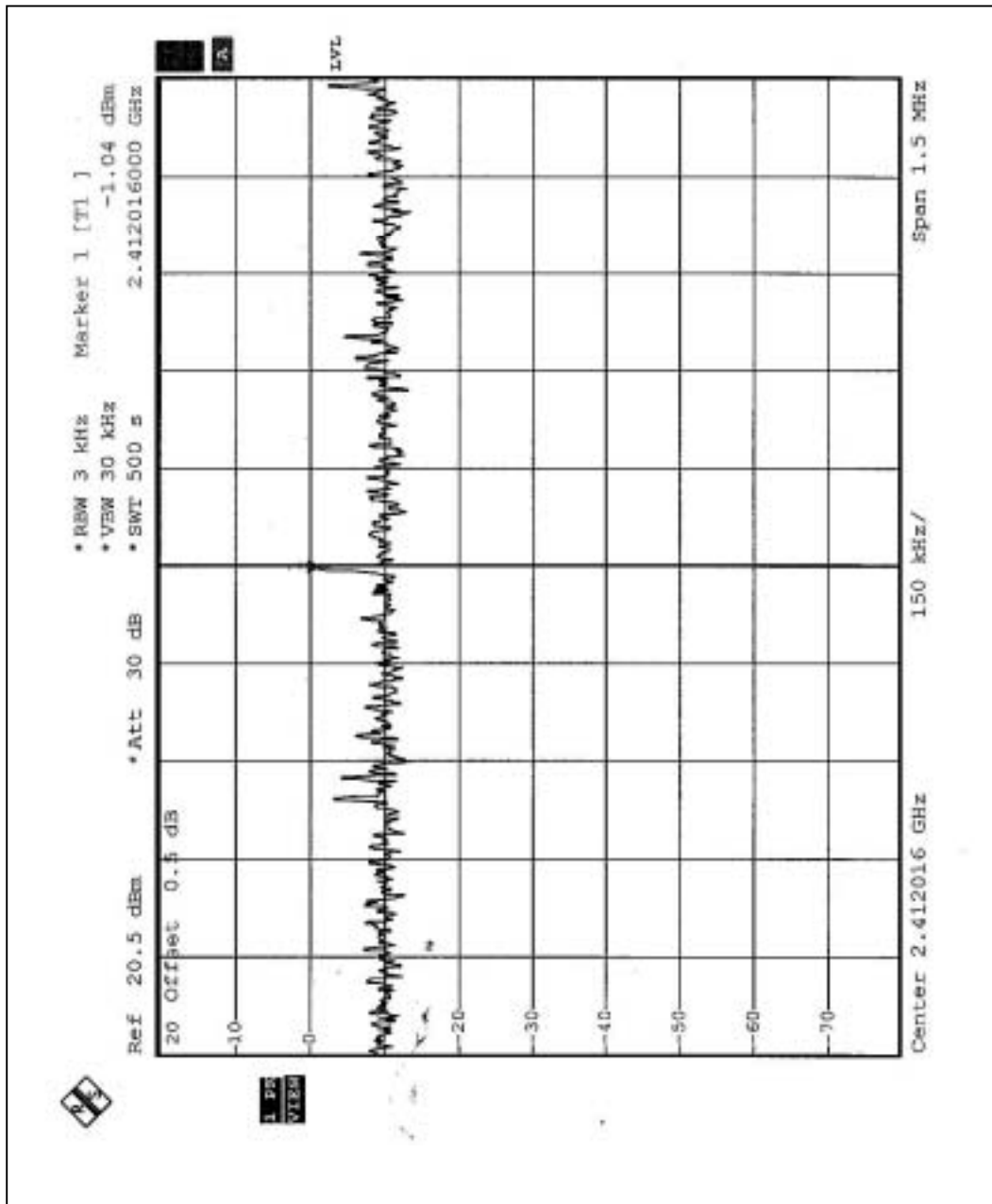
4.5.6 TEST RESULTS-DSSS

EUT	802.11g/2.4GHz Wireless Gaming Adapter		
MODEL	WAP-G06	ENVIRONMENTAL CONDITIONS	24 deg. C, 64%RH, 970 hPa
INPUT POWER (SYSTEM)	120Vac, 60 Hz	TESTED BY	Wen Yu

CHANNEL NUMBER	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3 KHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	2412	-1.04	8	PASS
6	2437	-1.22	8	PASS
11	2462	-0.62	8	PASS

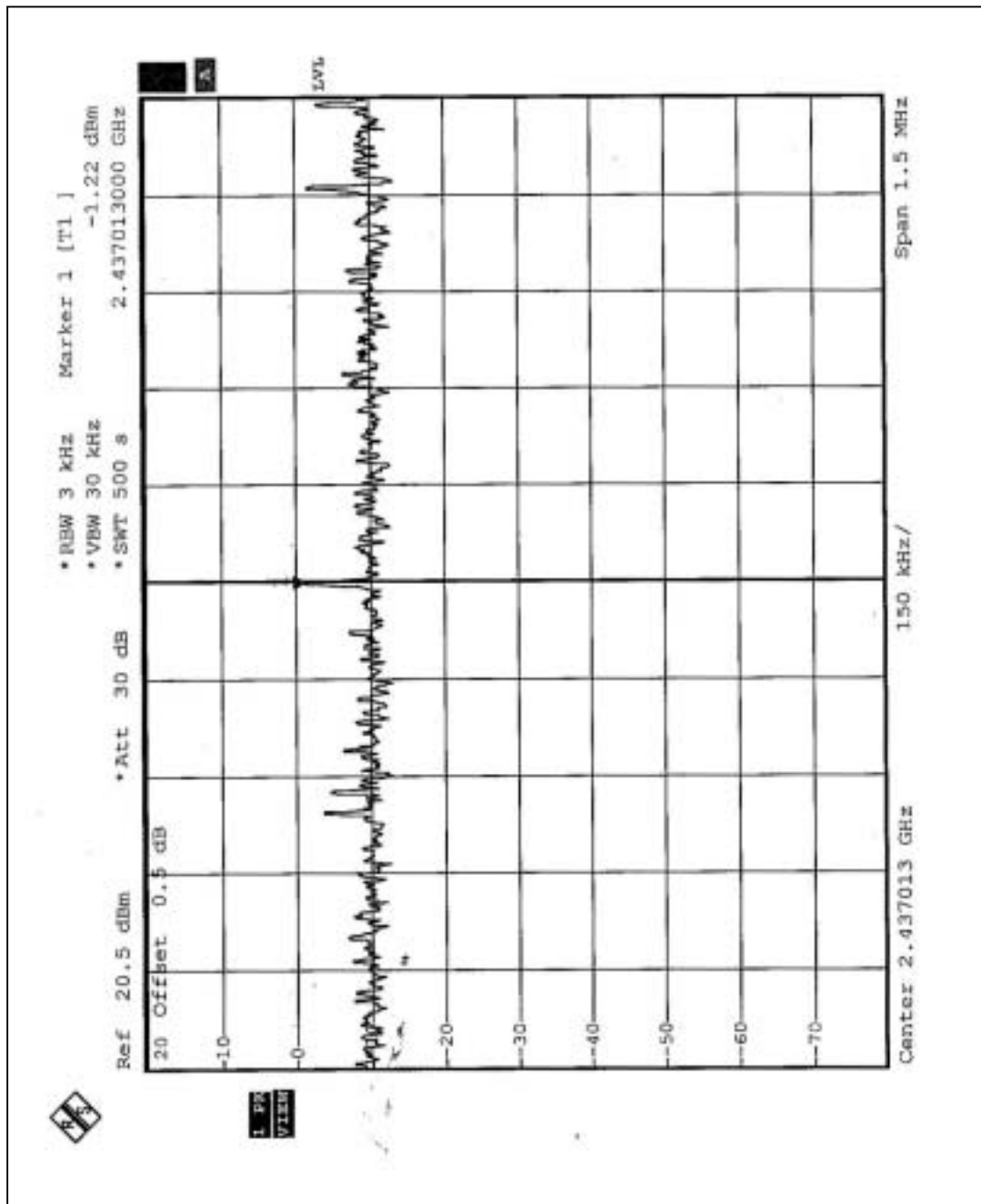


CH1



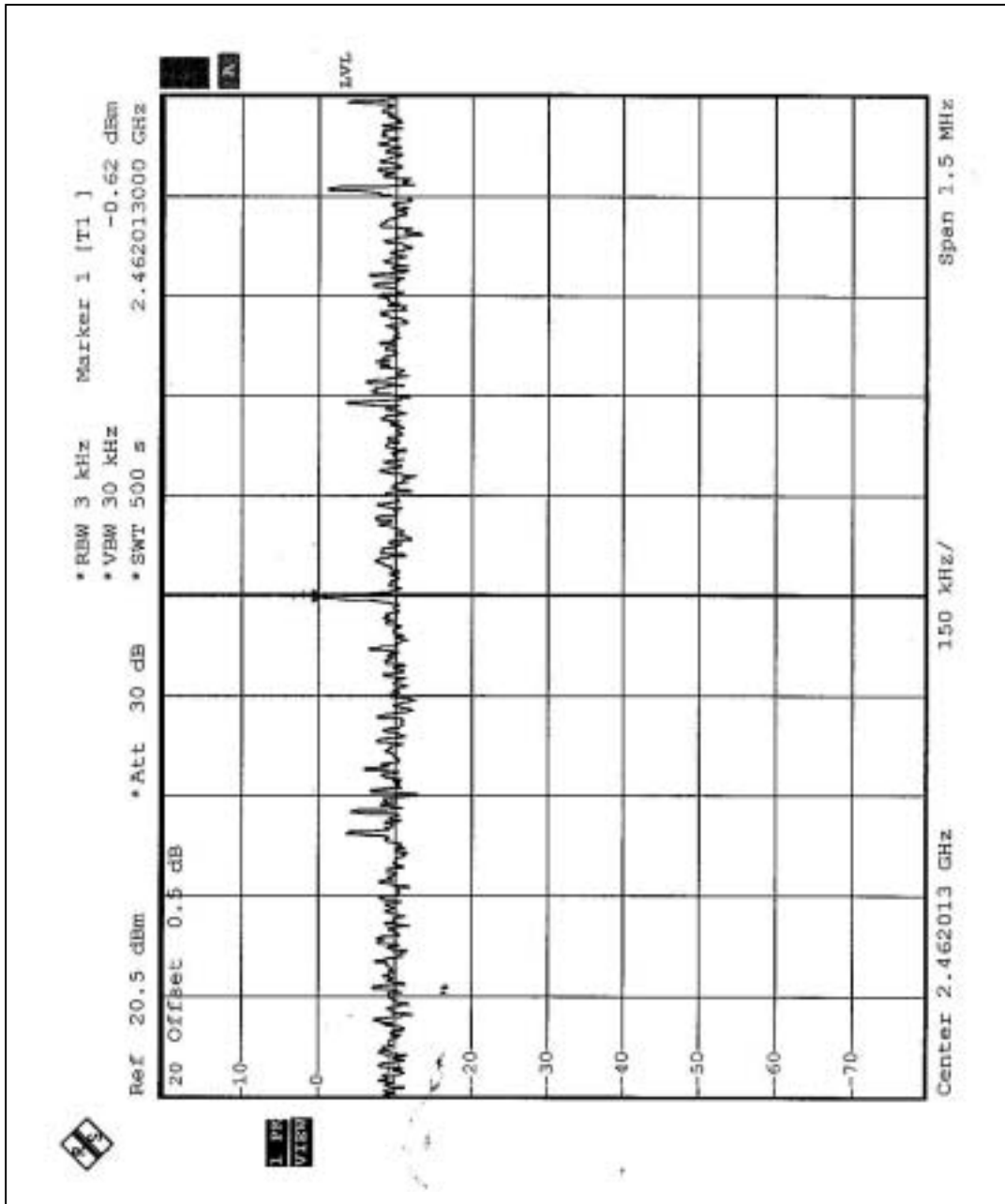


CH6





CH11





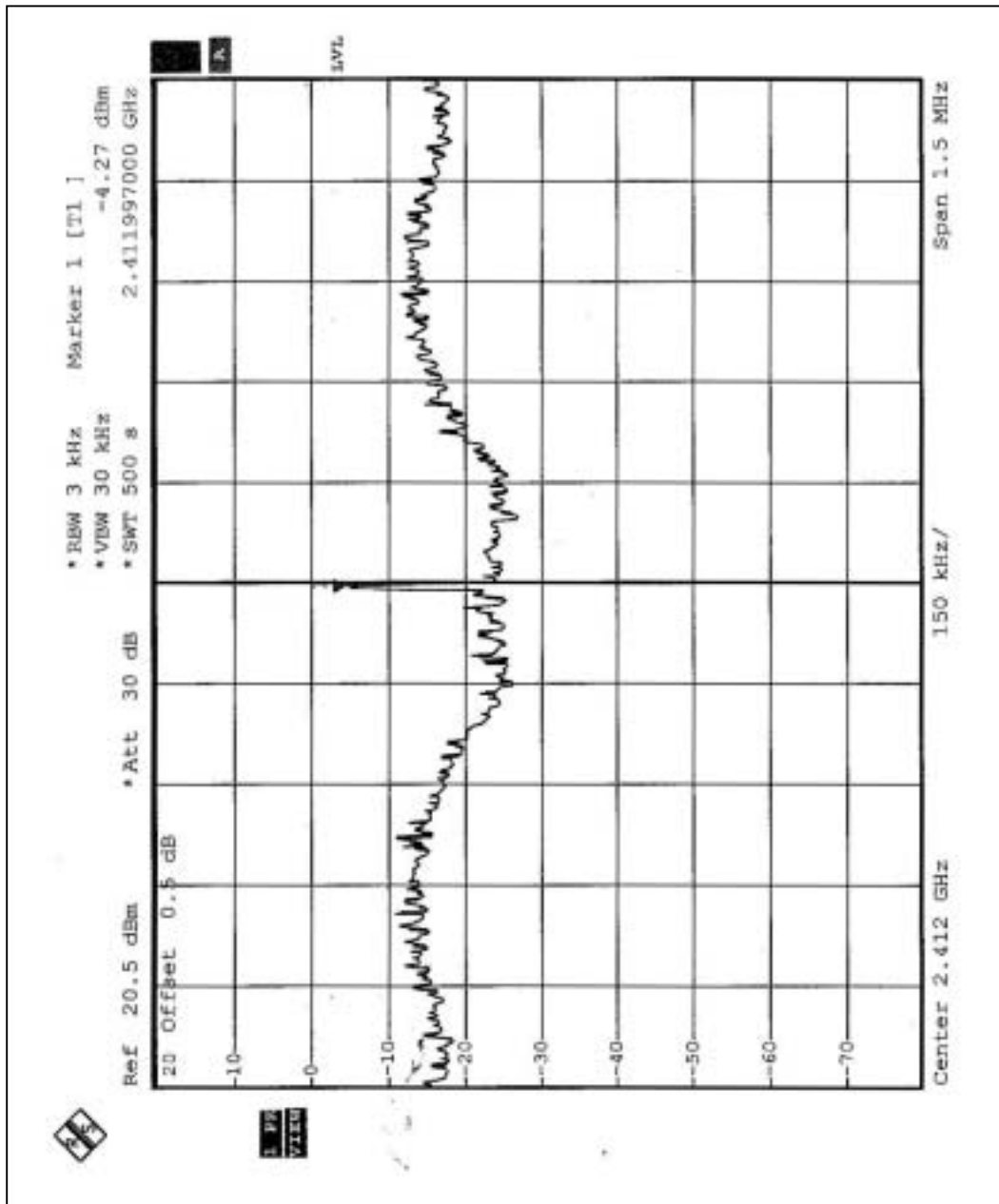
4.5.7 TEST RESULTS-OFDM

EUT	802.11g/2.4GHz Wireless Gaming Adapter		
MODEL	WAP-G06	ENVIRONMENTAL CONDITIONS	24 deg. C, 64%RH, 970 hPa
INPUT POWER (SYSTEM)	120Vac, 60 Hz	TESTED BY	Wen Yu

CHANNEL NUMBER	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3 KHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	2412	-4.27	8	PASS
6	2437	-5.51	8	PASS
11	2462	-6.20	8	PASS
Turbo 6	2437	-12.82	8	PASS

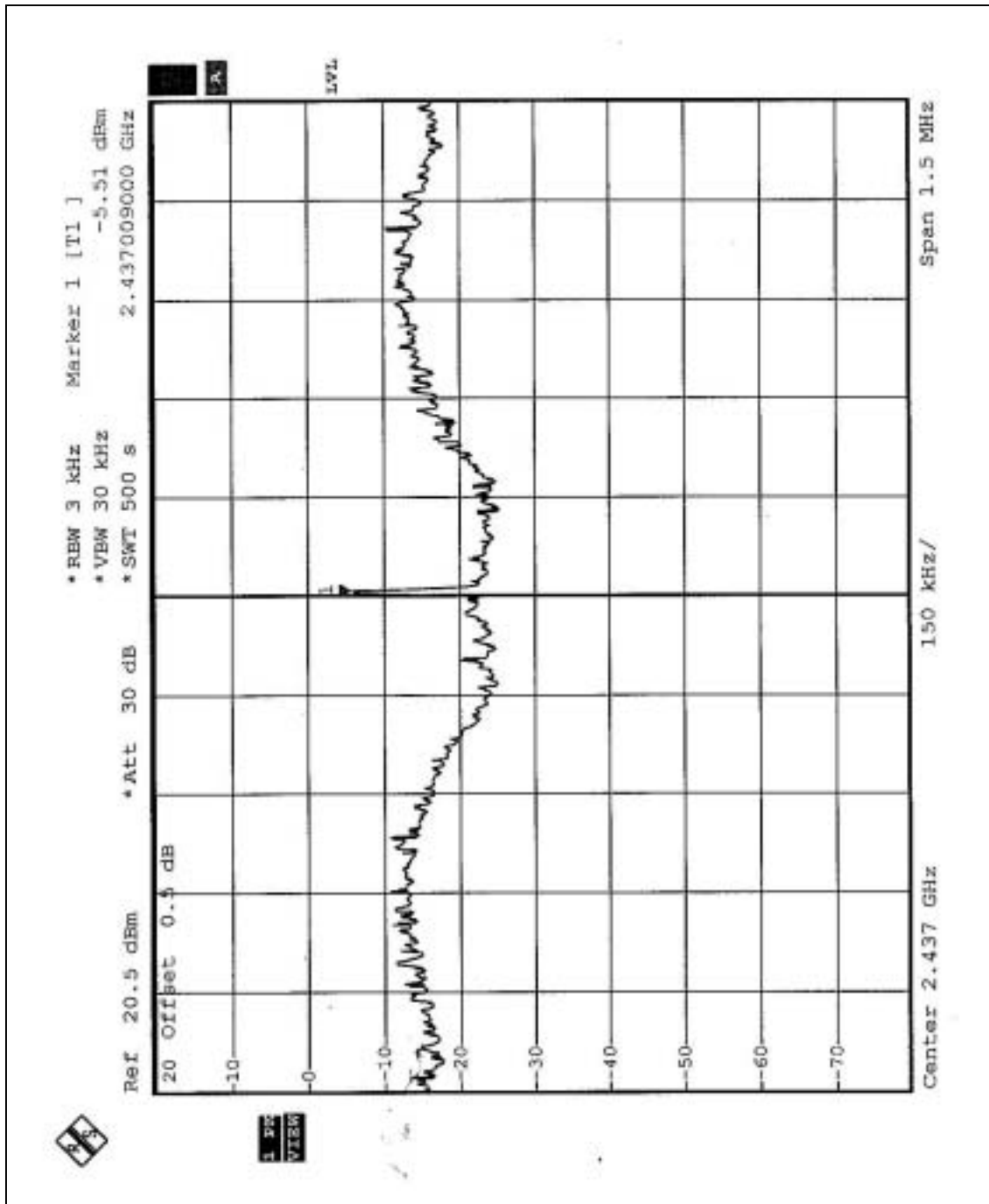


CH1



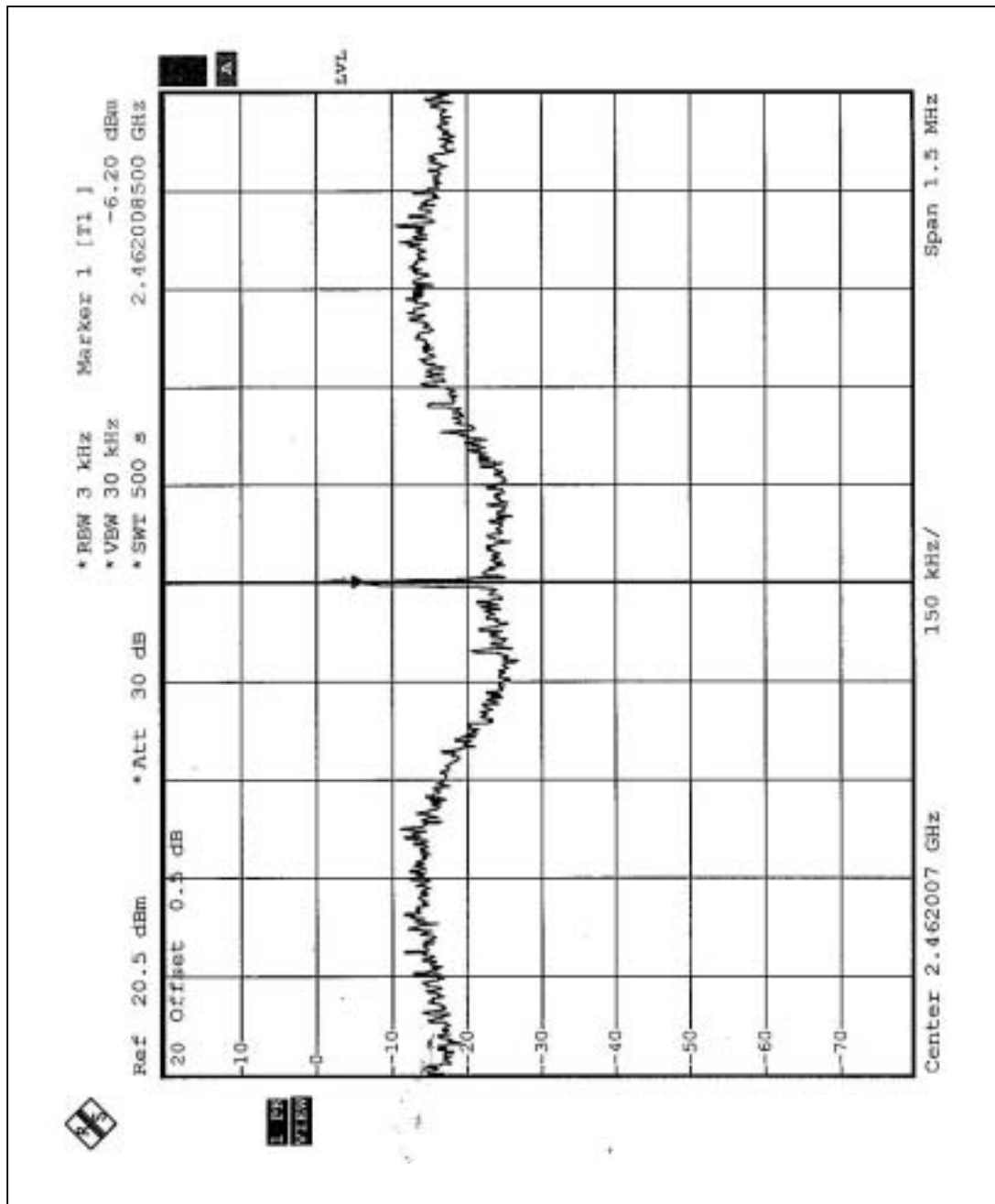


CH6



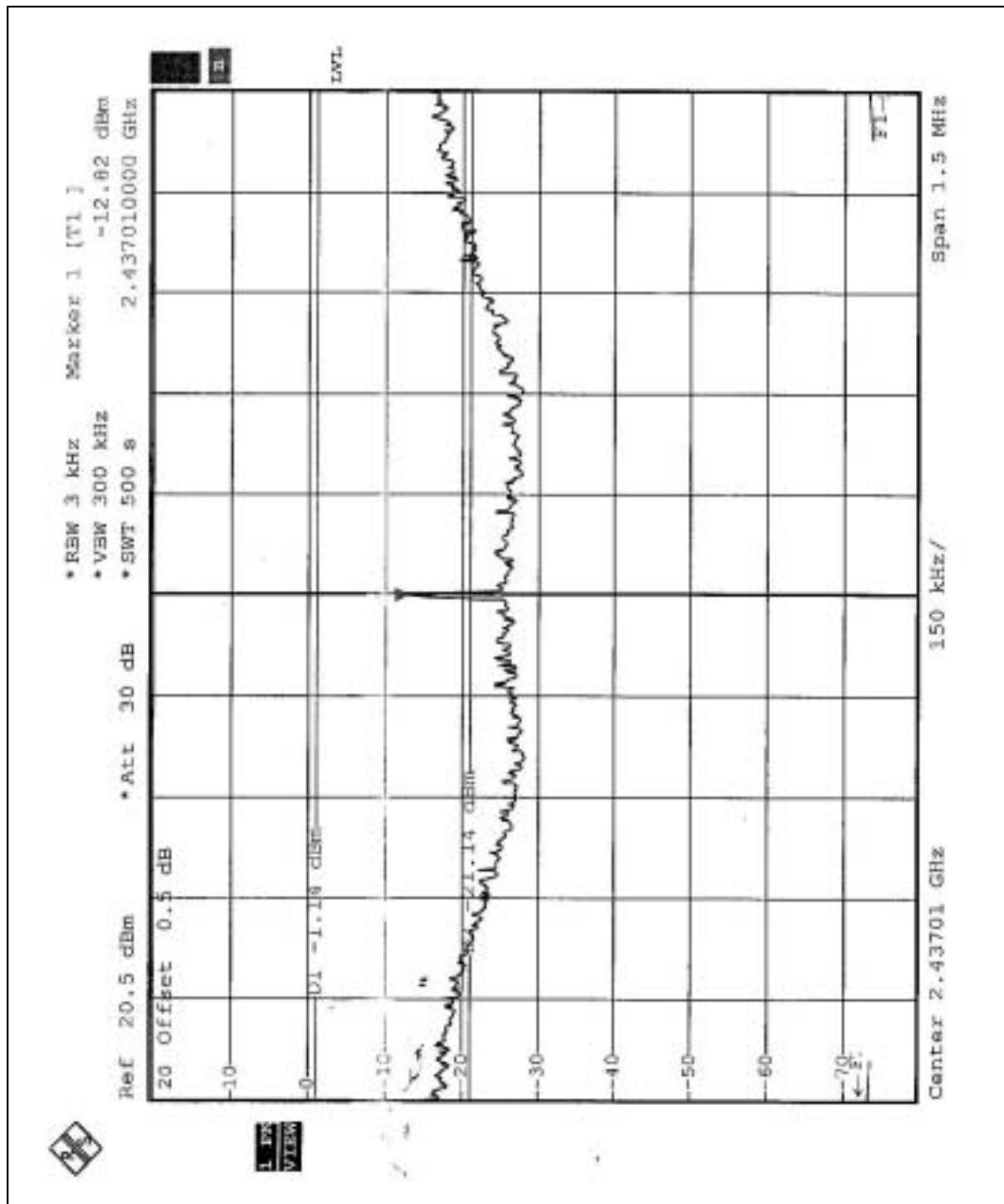


CH11





Turbo CH6





4.6 BAND EDGES MEASUREMENT

4.6.1 LIMITS OF BAND EDGES MEASUREMENT

Below -20dB of the highest emission level of operating band (in 100KHz Resolution Bandwidth).

4.6.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
R&S SPECTRUM ANALYZER	FSP40	100036	Nov. 27, 2004

NOTE:

- 1.The measurement uncertainty is less than $\pm 2.6\text{dB}$, which is calculated as per the NAMAS document NIS81.
- 2.The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

4.6.3 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 with suitable frequency span including 100 kHz bandwidth from band edge. The band edges was measured and recorded.

4.6.4 EUT OPERATING CONDITION

Same as Item 4.3.5



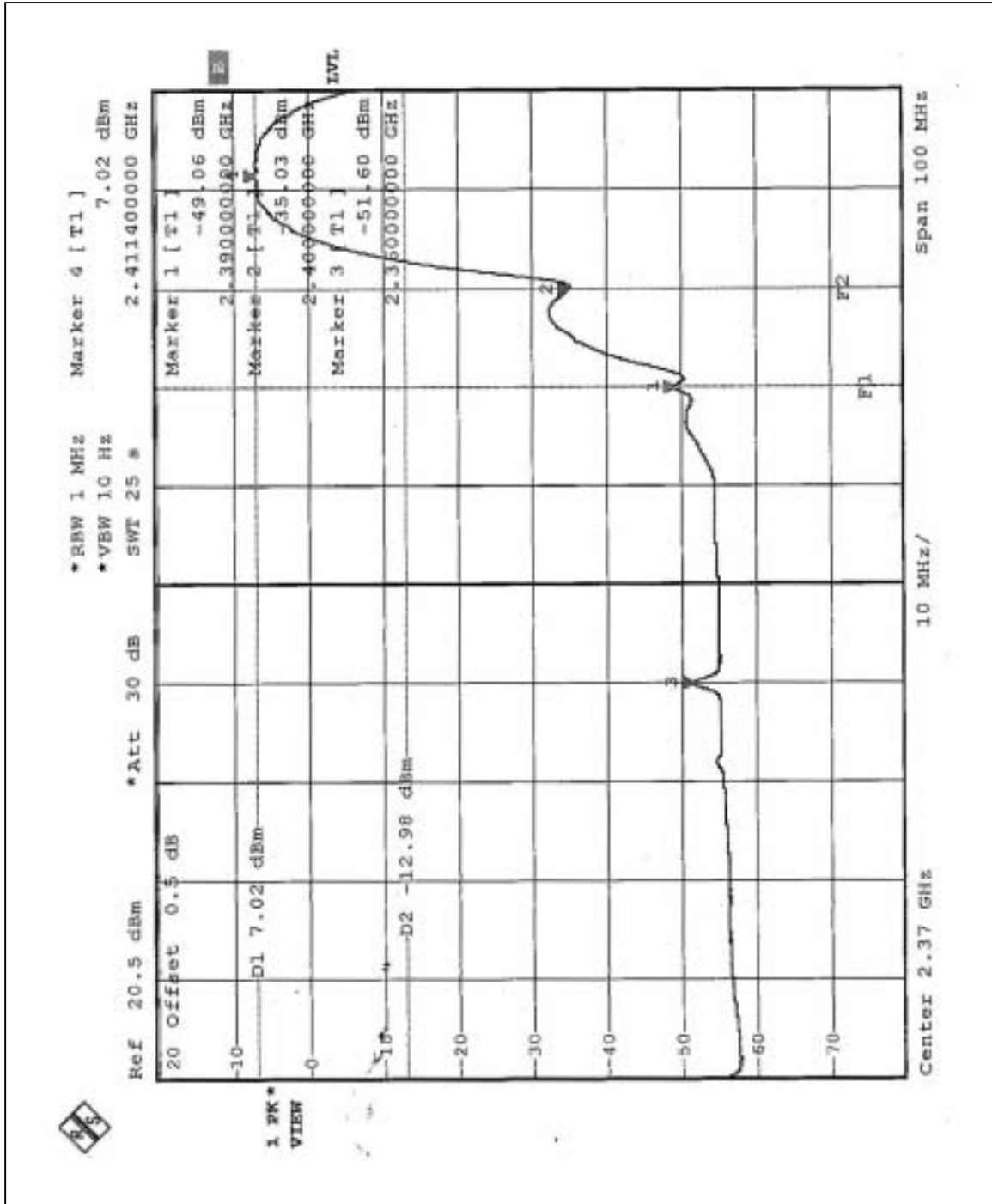
4.6.5 TEST RESULTS – Antenna 1, DSSS

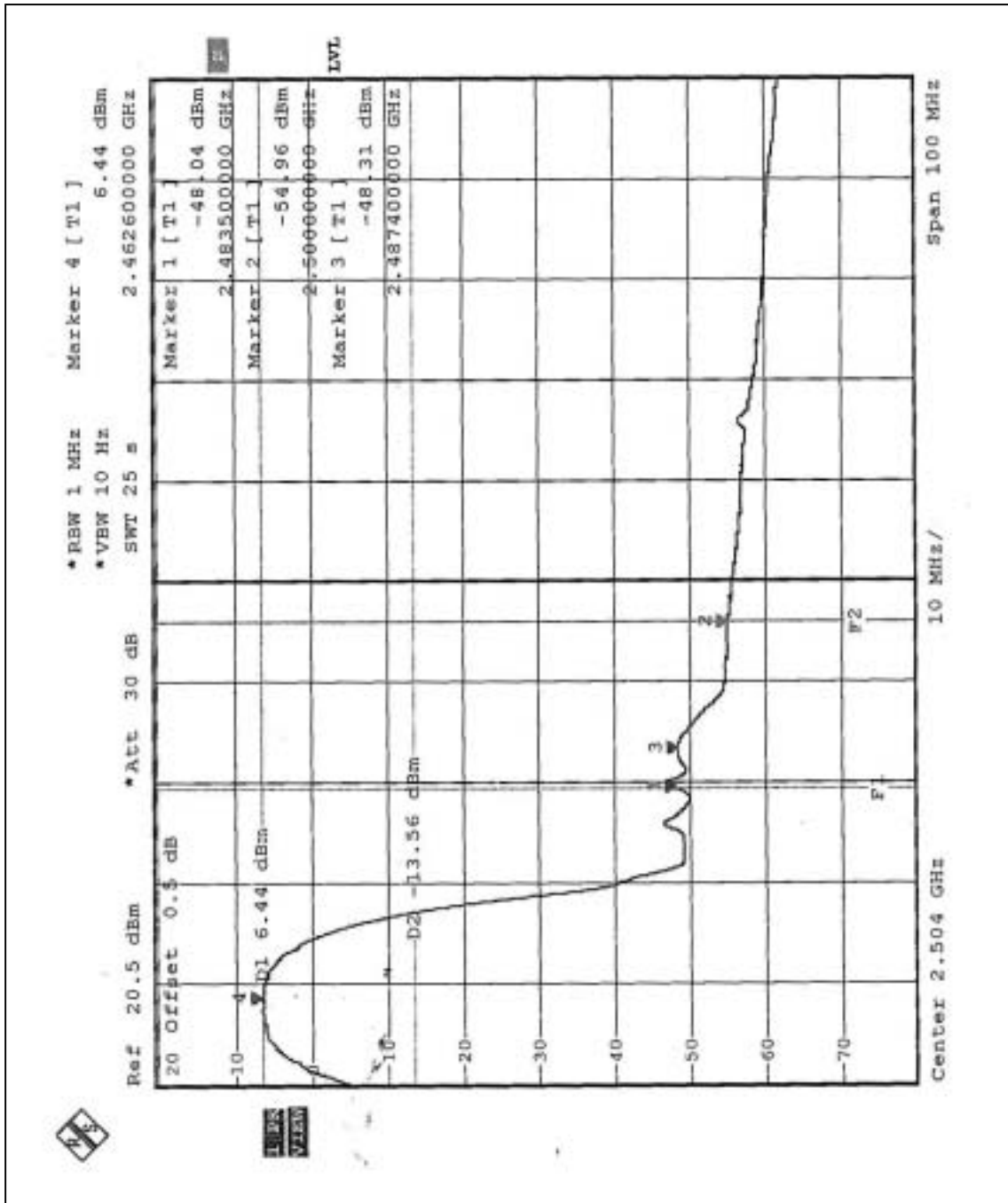
The spectrum plots are attached on the following 2 pages. D1 line indicates the highest level, D2 line indicates the 20dB offset below D1. It shows compliance with the requirement in part 15.247(C).

Note - The delta method is only used up to 2 MHz away from the restricted bandage, The radiated emissions which located in other restricted frequency band, the result, please refer to 4.2.

NOTE (1): The band edge emission plot on the following first page shows 56.08dB delta between carrier maximum power and local maximum emission in restrict band (2.3900GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2 is 107.80dBuV/m, so the maximum field strength in restrict band is $107.80-56.08=51.72$ dBuV/m which is under 54 dBuV/m limit.

NOTE (2): The band edge emission plot on the following second page shows 54.48dB delta between carrier maximum power and local maximum emission in restrict band (2.4835GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2. is 107.20dBuV/m, so the maximum field strength in restrict band is $107.20-54.48=52.72$ dBuV/m which is under 54 dBuV/m limit.







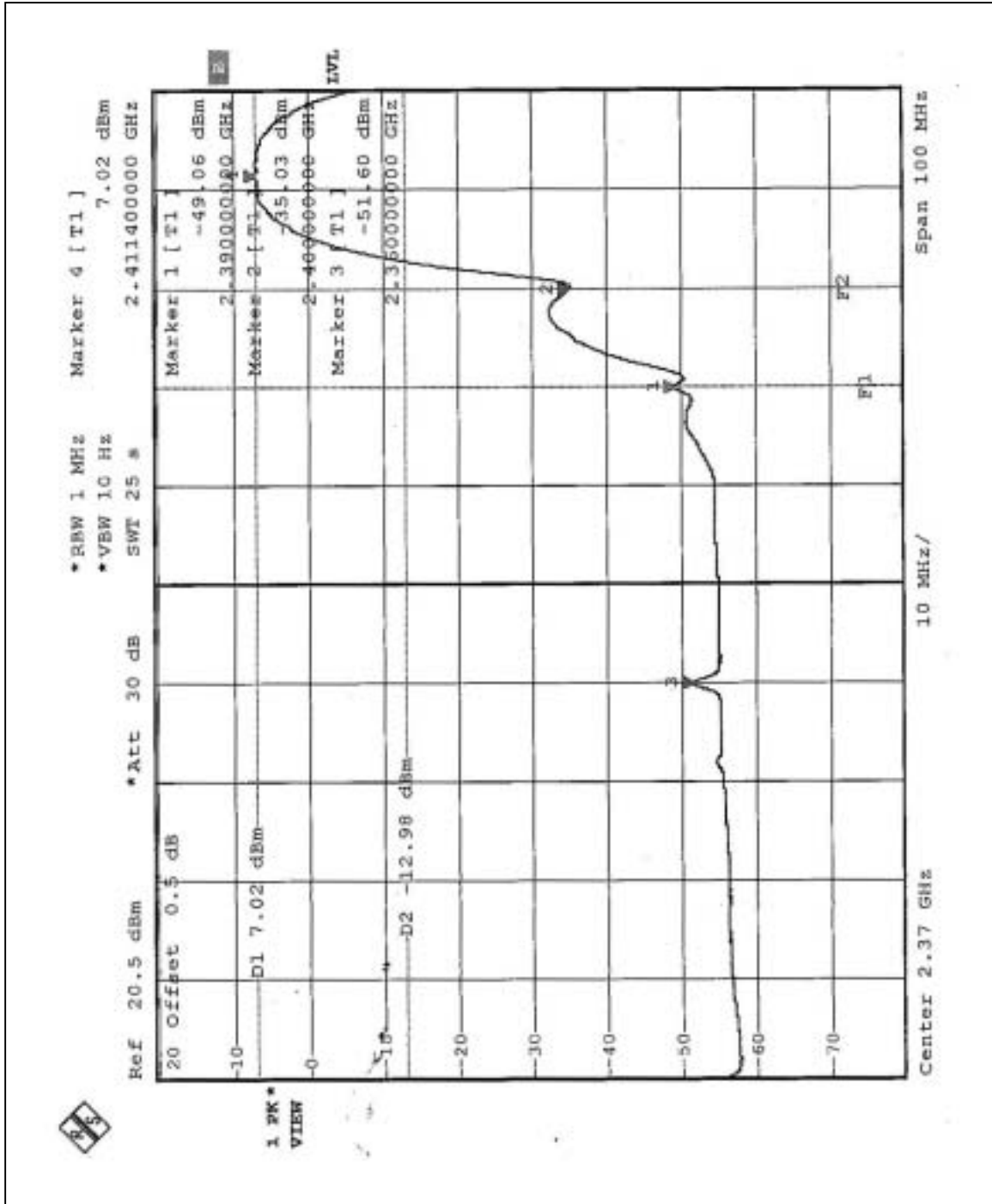
4.6.6 TEST RESULTS –Antenna 2, DSSS

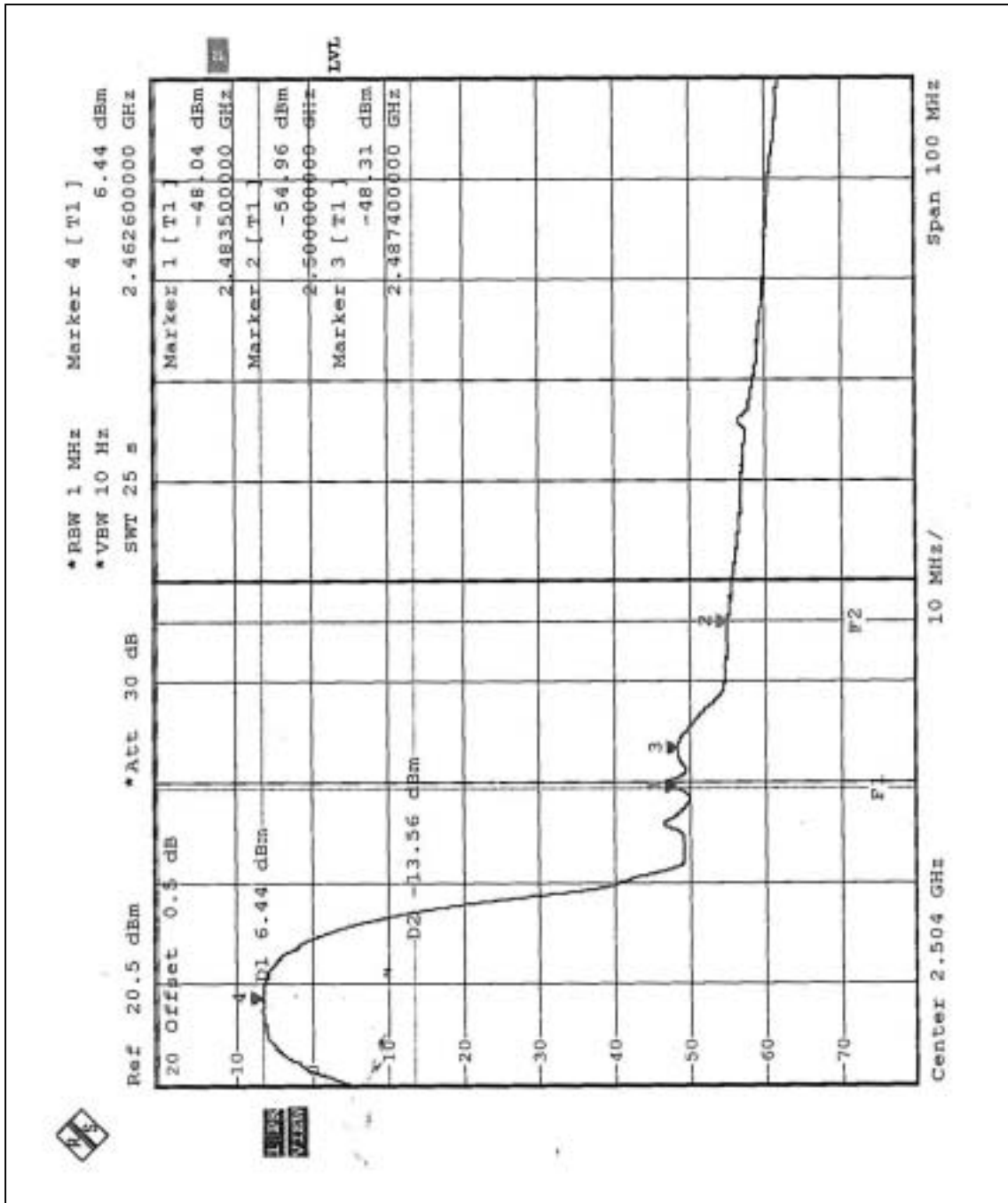
The spectrum plots are attached on the following 2 pages. D1 line indicates the highest level, D2 line indicates the 20dB offset below D1. It shows compliance with the requirement in part 15.247(C).

Note - The delta method is only used up to 2 MHz away from the restricted bandage, The radiated emissions which located in other restricted frequency band, the result, please refer to 4.2.

NOTE (1): The band edge emission plot on the following first page shows 56.08dB delta between carrier maximum power and local maximum emission in restrict band (2.3900GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2 is 102.60dBuV/m, so the maximum field strength in restrict band is $102.60-56.08=46.52$ dBuV/m which is under 54 dBuV/m limit.

NOTE (2): The band edge emission plot on the following second page shows 54.48dB delta between carrier maximum power and local maximum emission in restrict band (2.4835GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2. is 101.10dBuV/m, so the maximum field strength in restrict band is $101.10-54.48=46.62$ dBuV/m which is under 54 dBuV/m limit.







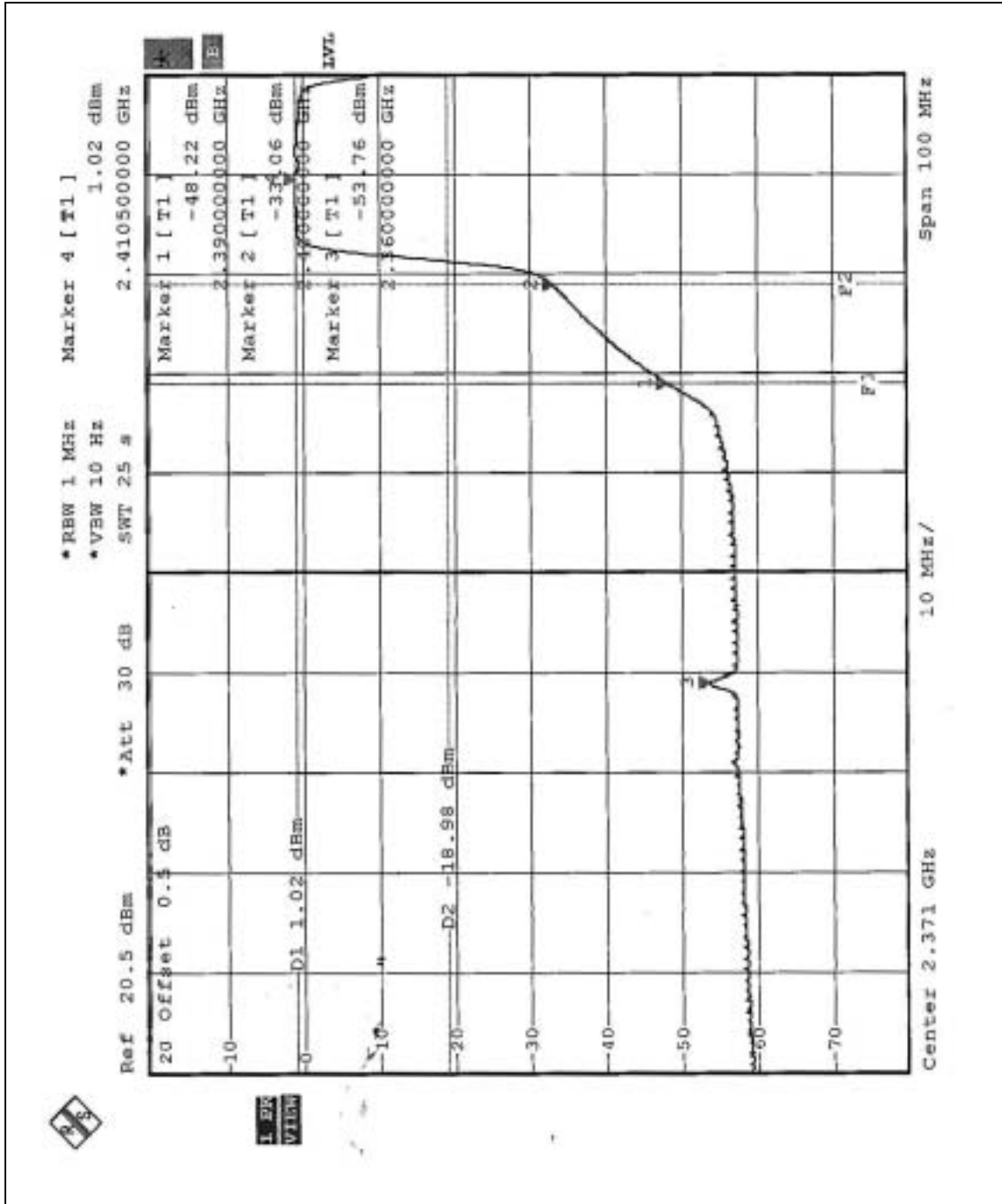
4.6.7 TEST RESULTS- Antenna 1, OFDM

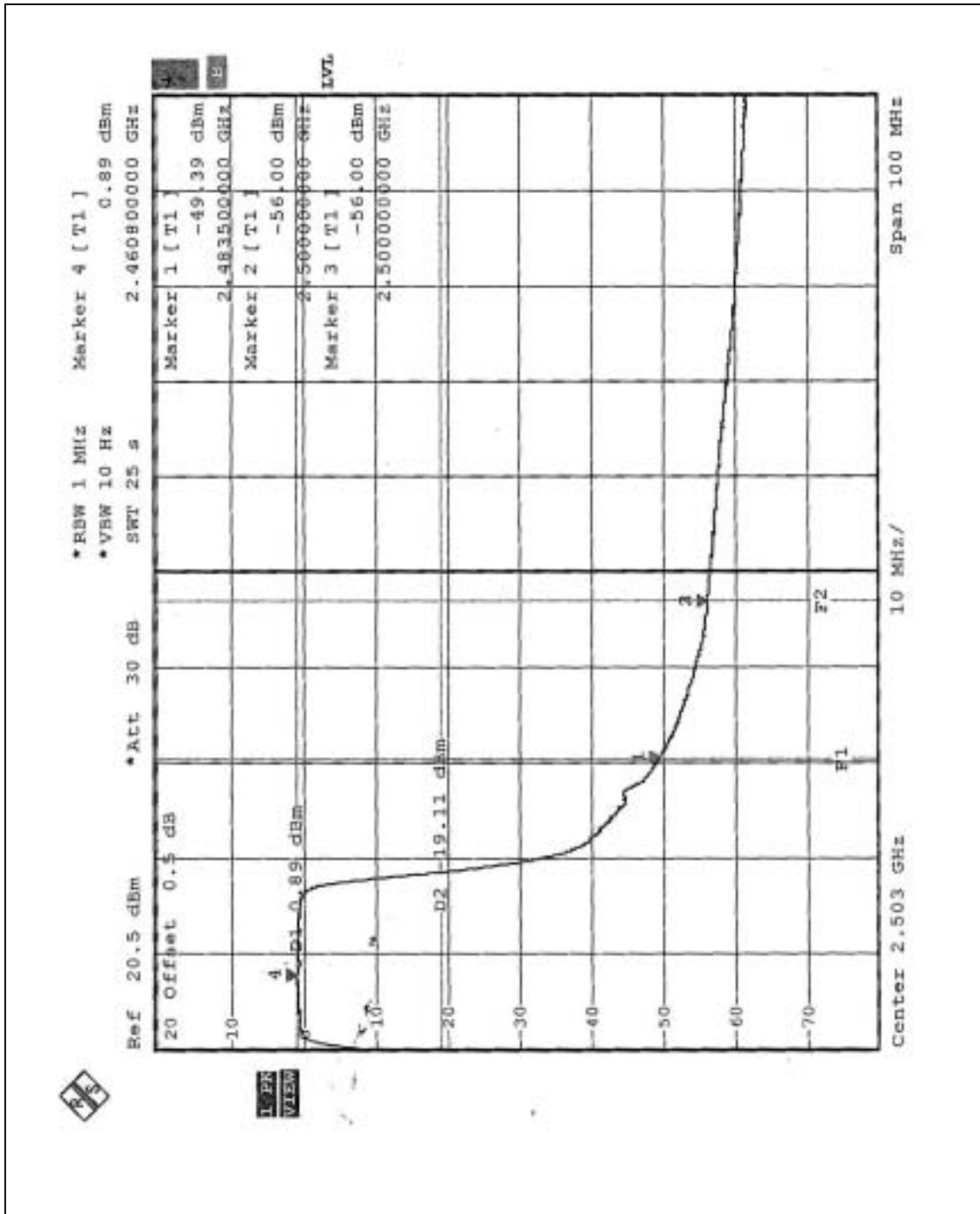
The spectrum plots are attached on the following 2 pages. D1 line indicates the highest level, D2 line indicates the 20dB offset below D1. It shows compliance with the requirement in part 15.247(C).

Note - The delta method is only used up to 2 MHz away from the restricted bandage, The radiated emissions which located in other restricted frequency band, the result, please refer to 4.2.

NOTE (1): The band edge emission plot on the following first page shows 49.24dB delta between carrier maximum power and local maximum emission in restrict band (2.3900GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2. is 101.5dBuV/m, so the maximum field strength in restrict band is $101.5-49.24=52.26$ dBuV/m which is under 54 dBuV/m limit.

NOTE (2): The band edge emission plot on the following second page shows 50.28dB delta between carrier maximum power and local maximum emission in restrict band (2.4835GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2. is 102.70dBuV/m, so the maximum field strength in restrict band is $102.70-50.28=52.42$ dBuV/m which is under 54 dBuV/m limit.







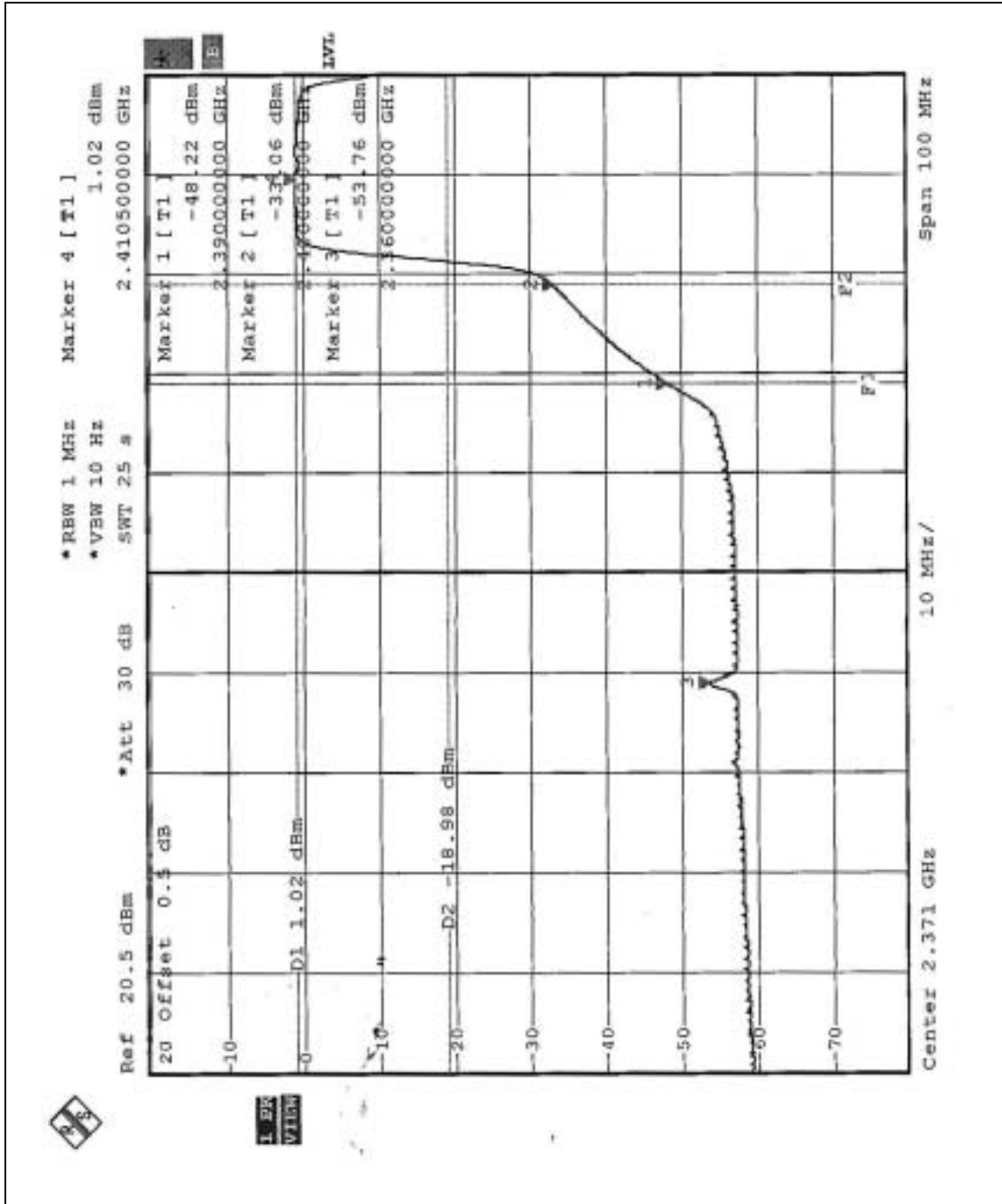
4.6.8 TEST RESULTS- Antenna 2, OFDM

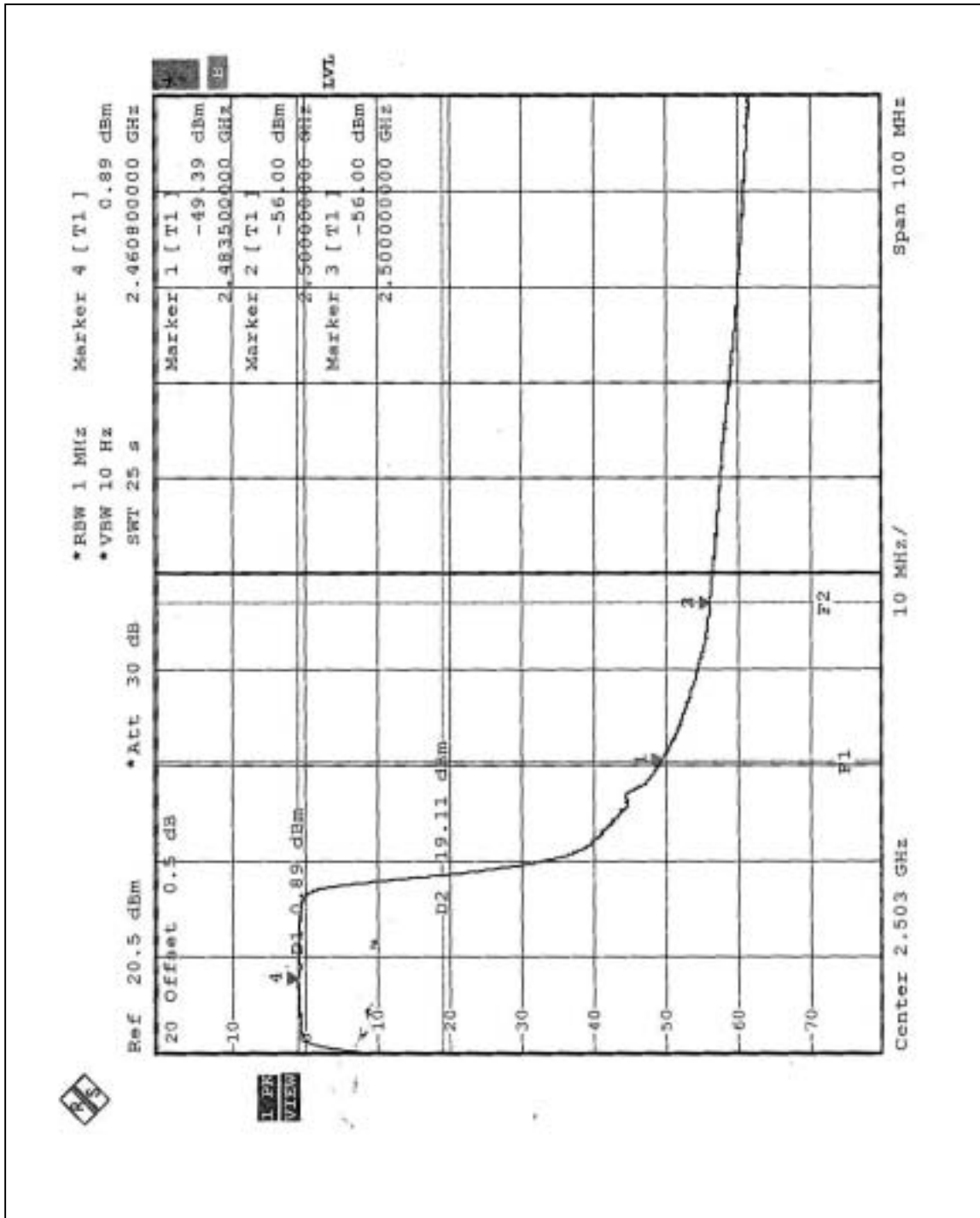
The spectrum plots are attached on the following 2 pages. D1 line indicates the highest level, D2 line indicates the 20dB offset below D1. It shows compliance with the requirement in part 15.247(C).

Note - The delta method is only used up to 2 MHz away from the restricted bandage, The radiated emissions which located in other restricted frequency band, the result, please refer to 4.2.

NOTE (1): The band edge emission plot on the following first page shows 49.24dB delta between carrier maximum power and local maximum emission in restrict band (2.3900GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2. is 95.80dBuV/m, so the maximum field strength in restrict band is $95.80 - 49.24 = 46.56$ dBuV/m which is under 54 dBuV/m limit.

NOTE (2): The band edge emission plot on the following second page shows 50.28dB delta between carrier maximum power and local maximum emission in restrict band (2.4835GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2. is 95.30dBuV/m, so the maximum field strength in restrict band is $95.30 - 50.28 = 45.02$ dBuV/m which is under 54 dBuV/m limit.







4.7 ANTENNA REQUIREMENT

4.7.1 STANDARD APPLICABLE

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

4.7.2 ANTENNA CONNECTED CONSTRUCTION

The antennas used in this product are Dipole Antenna with R-SMA connector and printed antenna without connector.

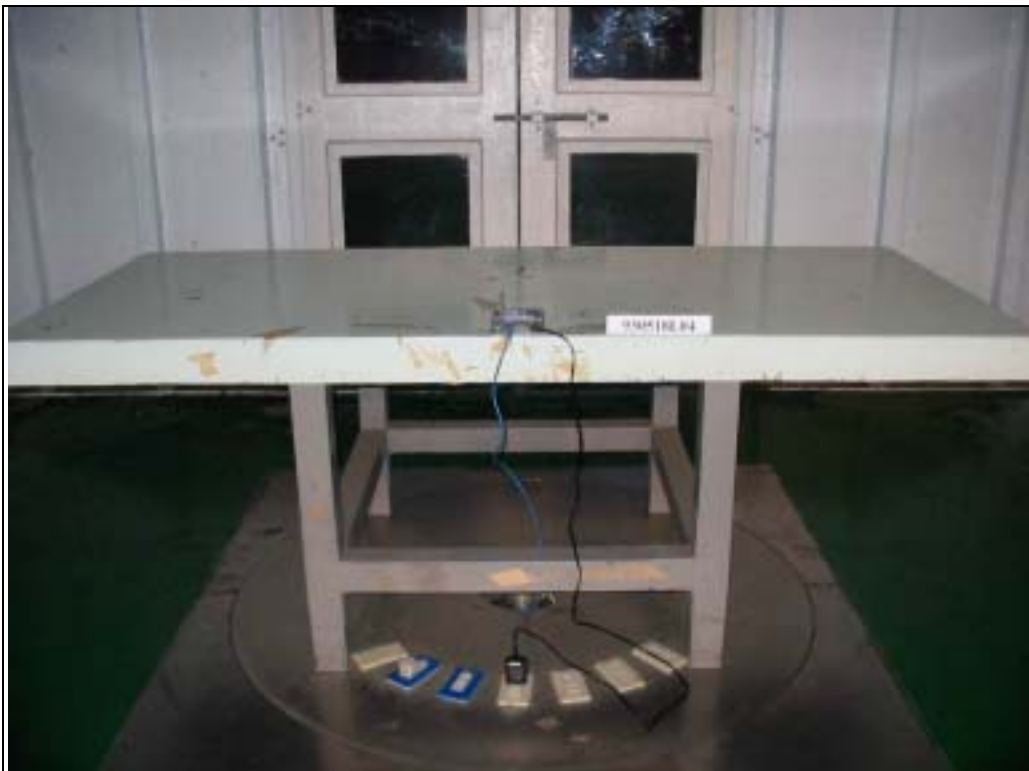
Antenna 1: The maximum Gain of the antenna is 2.0dBi.

Antenna 2: The maximum Gain of the antenna is 0dBi.

5 PHOTOGRAPHS OF THE TEST CONFIGURATION CONDUCTED EMISSION TEST



RADIATED EMISSION TEST





6 INFORMATION ON THE TESTING LABORATORIES

We, ADT Corp., were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025, Guide 25 or EN 45001:

USA	FCC, NVLAP, UL
Germany	TUV Rheinland
Japan	VCCI
Norway	NEMKO
Canada	INDUSTRY CANADA , CSA
R.O.C.	CNLA, BSMI, DGT
Netherlands	Telefication
Singapore	PSB , GOST-ASIA(MOU)
Russia	CERTIS(MOU)

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:

Tel: 886-2-26052180

Fax: 886-2-26052943

Hsin Chu EMC/RF Lab:

Tel: 886-3-5935343

Fax: 886-3-5935342

Hwa Ya EMC/RF/Safety/Telecom Lab:

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Fax: 886-3-3185050

Linko RF Lab.

Tel: 886-3-3270910

Fax: 886-3-3270892

Email: service@mail.adt.com.tw

Web Site: www.adt.com.tw

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