FCC TEST REPORT

REPORT NO.: RF921231R01
MODEL NO.: DWL-G510
RECEIVED: December 31, 2003
TESTED: January 10 ~ January 14, 2004

APPLICANT: D-Link Corporation

ADDRESS: No.8,Li-Hsin VII Road Science Based Industrial Park Hsin-Chu,Taiwan

ISSUED BY: Advance Data Technology Corporation

LAB LOCATION: 47 14th Lin, Chiapau Tsun, Linko, Taipei, Taiwan, R.O.C.

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1 CERTIFICATION

PRODUCT :	802.11g Wireless PCI Adapter
MODEL NO. :	DWL-G510
BRAND NAME :	D-Link
APPLICANT :	D-Link Corporation
TEST ITEM:	ENGINEERING SAMPLE
STANDARDS :	FCC Part 15, Subpart C (Section 15.247), ANSI C63.4:1992

We, **Advance Data Technology Corporation**, hereby certify that one sample of the designation has been tested in our facility from January 10, 2004 to January 14, 2004. The test record, data evaluation and Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions herein specified.

PREPARED BY: _____, **DATE:** January 15, 2004
Stephanie Hung

APPROVED BY: _____, **DATE:** January 15, 2004
Ellis Wu / for
Technical Manager

2 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part 15, Subpart C			
Standard Section	**Test Type and Limit**	**Result**	**REMARK**
15.207	AC Power Conducted Emission	PASS	Meet the requirement of limit Minimum passing margin is –11.38dB at 20.758MHz
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 –0.38dB at 2310.00MHz
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 Wireless PCI Adapter
MODEL NO.	DWL-G510
POWER SUPPLY	3.3Vdc from host equipment
MODULATION TYPE	DBPSK, DQPSK, CCK, 16QAM, 64QAM
MODULATION TECHNOLOGY	DSSS, OFDM
TRANSFER RATE	802.11b:1/2/5.5/11Mbps 802.11g:6/12/18/24/36/48/54Mbps
FREQUENCY RANGE	2412MHz ~ 2462MHz
CHANNEL SPACING	5MHz
NUMBER OF CHANNEL	11
OUTPUT POWER	16.00dBm
ANTENNA TYPE	Dipole antenna with 2dBi gain
TEMPERATURE RANGE	0℃ ~ 55℃
DATA CABLE	NA
I/O PORTS	NA
ASSOCIATED DEVICES	NA

NOTE:

1. Fully compatible with the 802.11g standard to provide a wireless data rate of up to 54Mbps.
2. The EUT complies with IEEE 802.11g draft standards, and backward compatible with IEEE 802.11b products.
3. For more detailed features description, please refer to the manufacturer's specifications or User's Manual.

3.2 DESCRIPTION OF TEST MODES

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		

NOTE:

1. Below 1GHz, the channel 1, 6, and 11 were pre-tested in chamber. The channel 11, the worst case, was chosen for final test.
2. Above 1GHz, the channel 1, 6, and 11 were tested individually.
3. Transfer rate, 11Mbps with CCK technique and 6Mbps with OFDM technique, the worst cases, were chosen for final test.

3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a 802.11g Wireless PCI Adapter. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

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

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

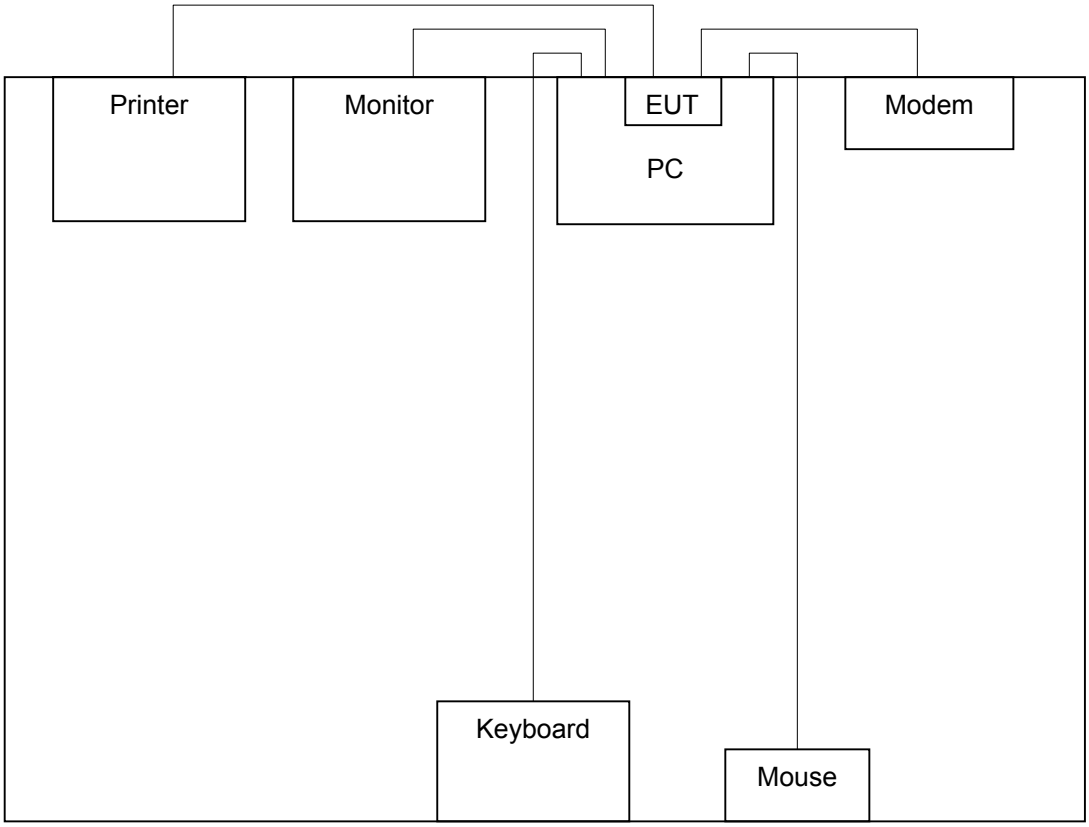
The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	PERSONAL COMPUTER	MSI	Hetis 865G Giga	1A36I98A000220	FCC DoC Approved
2	MONITOR	HP	D2842A	KR93473113	BEJCB910
3	PS/2 KEYBOARD	BTC	5200T	F24800235	E5XKB5122WTH 0110
4	PS/2 MOUSE	BTC	M851	N/A	E5XMSM860
5	PRINTER	EPSON	LQ-300+	DCGY017058	FCC DoC Approved
6	MODEM	ACEEX	1414	980020516	IFAXDM1414

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	NA
2	1.8 m braid shielded wire, terminated with VGA connector via metallic frame, w/o core.
3	1.6 m foil shielded wire, terminated with PS/2 connector via metallic frame, w/o core.
4	1.5 m Non shielded wire, terminated with PS/2 connector via drain wire, w/o core.
5	1.2m braid shielded wire, terminated with DB25 and Centronics connector via metallic frame, w/o core.
6	1.2 m braid shielded wire, terminated with DB25 and DB9 connector via metallic frame, w/o core.

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

3.5 CONFIGURATION OF SYSTEM UNDER TEST



4 TEST TYPES AND RESULTS

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dBμV)	
	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. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.
3. All emanations from a class A/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	838251/021	Jan. 04, 2005
ROHDE & SCHWARZ Artificial Mains Network (for EUT)	ESH3-Z5	100218	Dec. 09, 2004
ROHDE & SCHWARZ Artificial Mains Network (for peripherals)	ESH3-Z5	100219	Dec. 09, 2004
ROHDE & SCHWARZ Artificial Mains Network (for peripherals)	ESH3-Z5	100220	Dec. 09, 2004
*ROHDE & SCHWARZ 4-wire ISN	ENY41	837032/016	Nov. 19, 2004
*ROHDE & SCHWARZ 2-wire ISN	ENY22	837497/016	Nov. 19, 2004
Software	Cond-V2M3	NA	NA
RF cable (JYEBAO)	5D-FB	Cable-C10.01	May 01, 2004
SUHNER Terminator (For ROHDE & SCHWARZ LISN)	65BNC-5001	E1-010770	Mar. 24, 2004
SUHNER Terminator (For ROHDE & SCHWARZ LISN)	65BNC-5001	E1-010773	Apr. 06, 2004

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. "*": These equipment are used for conducted telecom port test only (if tested).
3. The test was performed in ADT Shielded Room No. 10.
4. The VCCI Site Registration No. is C-1312.

4.1.3 TEST PROCEDURES

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

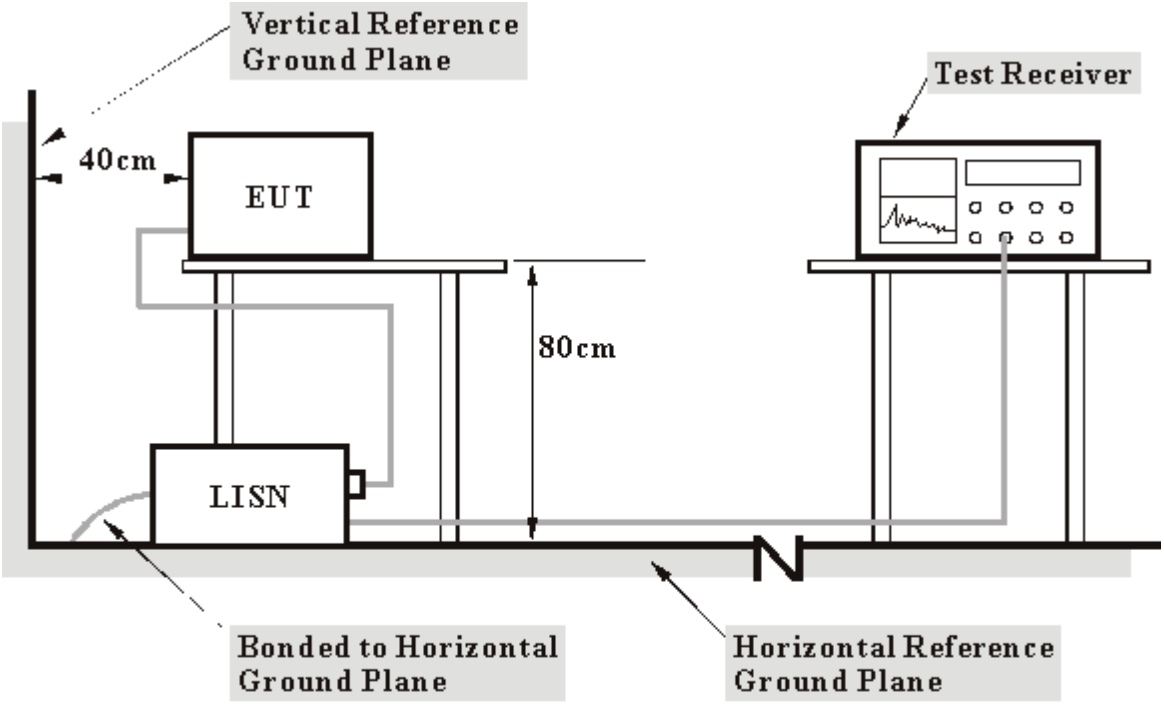
b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

c. The frequency range from 150kHz to 30MHz was searched. Emission levels under 20dB of the prescribed limits could not be reported.

4.1.4 DEVIATION FROM TEST STANDARD

No deviation

4.1.5 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.

4.1.6 EUT OPERATING CONDITIONS

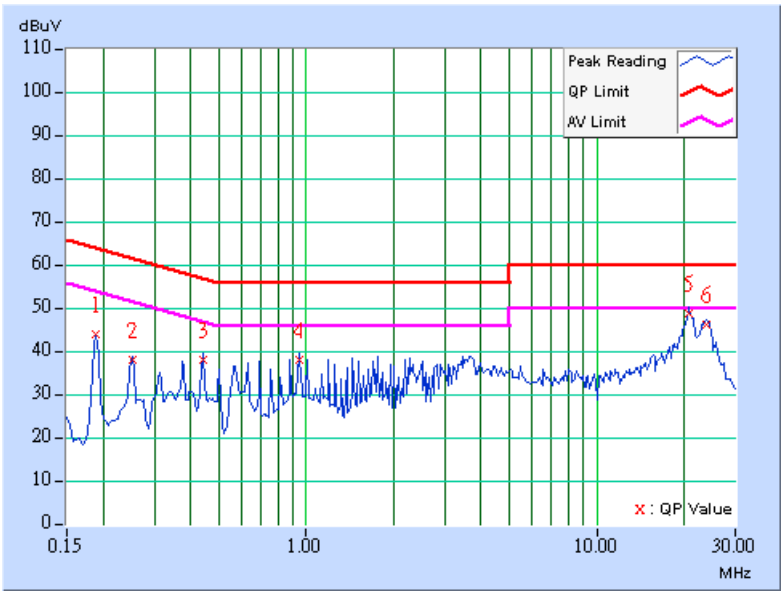
a. Connected the EUT to a computer system placed on a testing table.
b. The computer system ran a test program to enable EUT under transmission/receiving condition continuously at specific channel frequency.
c. The computer system sent "H" messages to its screen.
d. The computer system sent “H” messages to modem.
e. The computer system sent "H" messages to printer, and the printer prints them on paper.
f. Repeat steps c~e.

4.1.7 TEST RESULTS

EUT	802.11g Wireless PCI Adapter	**MODEL**	DWL-G510
MODE	Channel 1	**6dB BANDWIDTH**	9kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**PHASE**	Line (L)
ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 991hPa	**TESTED BY**: Jamison Chan	

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.189	0.10	42.92	-	43.02	-	64.08	54.08	-21.06	-
2	0.252	0.10	36.85	-	36.95	-	61.71	51.71	-24.76	-
3	0.439	0.11	36.86	-	36.97	-	57.08	47.08	-20.11	-
4	0.943	0.19	36.84	-	37.03	-	56.00	46.00	-18.97	-
5	**20.758**	**0.95**	**47.67**	**-**	**48.62**	**-**	**60.00**	**50.00**	**-11.38**	**-**
6	23.914	1.13	45.01	-	46.14	-	60.00	50.00	-13.86	-

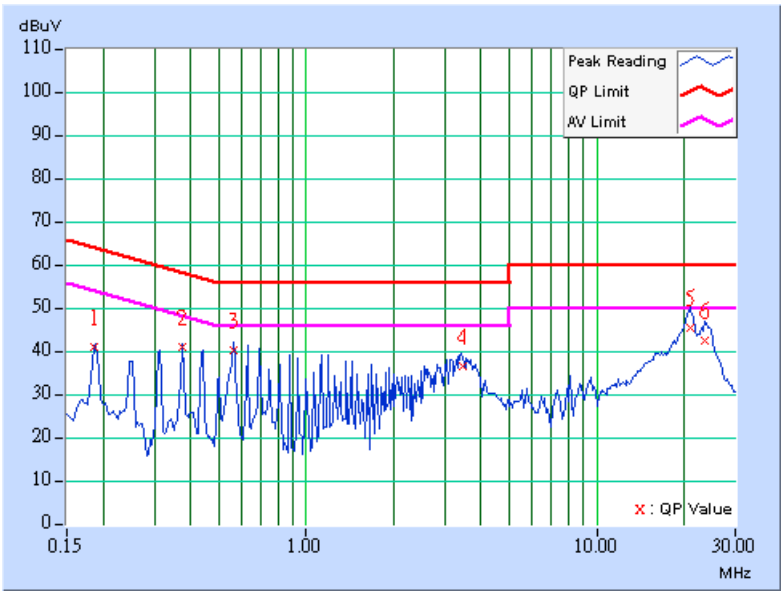
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission level - Limit value
5. Correction factor = Insertion loss + Cable loss
6. Emission Level = Correction Factor + Reading Value.



EUT	802.11g Wireless PCI Adapter	**MODEL**	DWL-G510
MODE	Channel 1	**6dB BANDWIDTH**	9kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**PHASE**	Neutral (N)
ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 991hPa	**TESTED BY**: Jamison Chan	

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.187	0.10	40.06	-	40.16	-	64.16	54.16	-24.00	-
2	0.377	0.10	40.08	-	40.18	-	58.35	48.35	-18.17	-
3	0.564	0.13	39.46	-	39.59	-	56.00	46.00	-16.41	-
4	3.456	0.27	35.77	-	36.04	-	56.00	46.00	-19.96	-
5	20.945	0.84	44.61	-	45.45	-	60.00	50.00	-14.55	-
6	23.458	0.94	41.74	-	42.68	-	60.00	50.00	-17.32	-

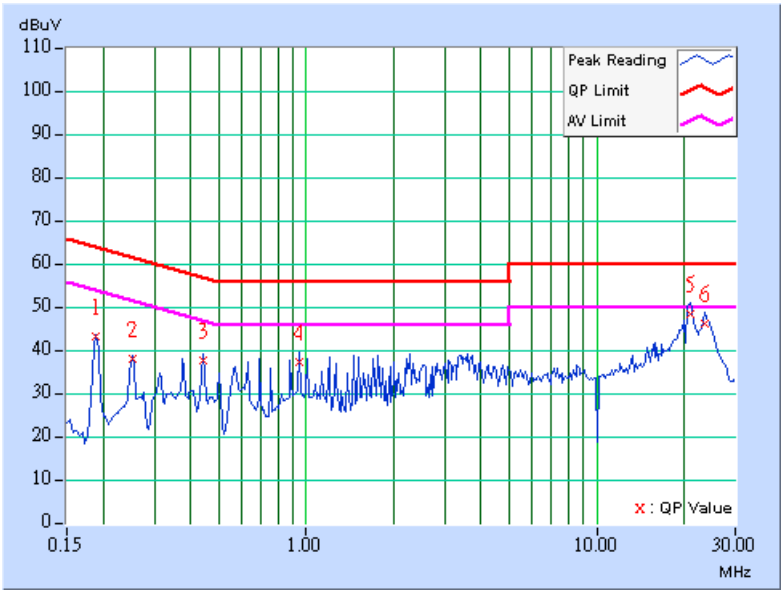
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission level - Limit value
5. Correction factor = Insertion loss + Cable loss
6. Emission Level = Correction Factor + Reading Value.



EUT	802.11g Wireless PCI Adapter	**MODEL**	DWL-G510
MODE	Channel 06	**6dB BANDWIDTH**	9kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**PHASE**	Line (L)
ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 991hPa	**TESTED BY**: Jamison Chan	

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.189	0.10	42.05	-	42.15	-	64.08	54.08	-21.93	-
2	0.252	0.10	36.91	-	37.01	-	61.71	51.71	-24.70	-
3	0.439	0.11	36.70	-	36.81	-	57.08	47.08	-20.27	-
4	0.943	0.19	36.13	-	36.32	-	56.00	46.00	-19.68	-
5	20.926	0.96	47.46	-	48.42	-	60.00	50.00	-11.58	-
6	23.500	1.11	45.34	-	46.45	-	60.00	50.00	-13.55	-

REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission level - Limit value
5. Correction factor = Insertion loss + Cable loss
6. Emission Level = Correction Factor + Reading Value.



EUT	802.11g Wireless PCI Adapter	**MODEL**	DWL-G510
MODE	Channel 06	**6dB BANDWIDTH**	9kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**PHASE**	Neutral (N)
ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 991hPa	**TESTED BY**: Jamison Chan	

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.189	0.10	41.79	-	41.89	-	64.08	54.08	-22.19	-
2	0.377	0.10	41.08	-	41.18	-	58.35	48.35	-17.17	-
3	0.568	0.13	39.32	-	39.45	-	56.00	46.00	-16.55	-
4	0.693	0.15	41.26	-	41.41	-	56.00	46.00	-14.59	-
5	20.375	0.82	47.13	-	47.95	-	60.00	50.00	-12.05	-
6	23.648	0.95	45.97	-	46.92	-	60.00	50.00	-13.08	-

REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
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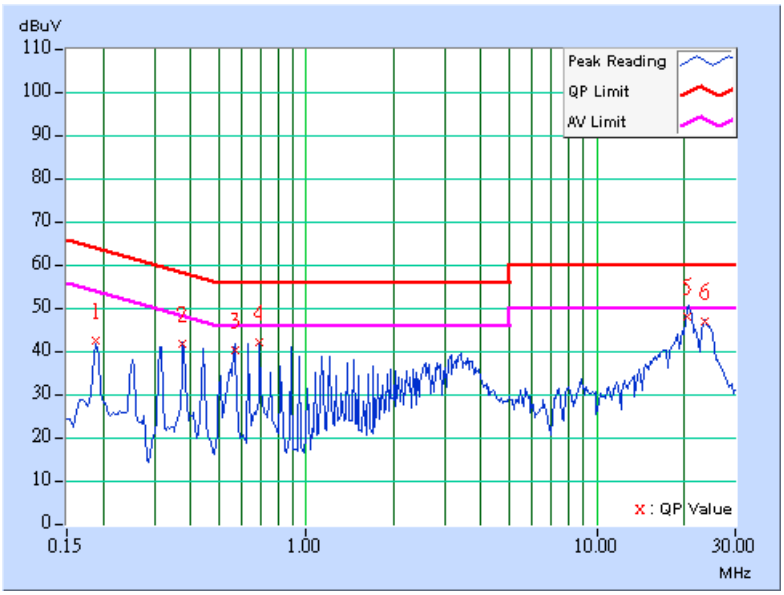

EUT	802.11g Wireless PCI Adapter	**MODEL**	DWL-G510
MODE	Channel 11	**6dB BANDWIDTH**	9kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**PHASE**	Line (L)
ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 991hPa	**TESTED BY**: Jamison Chan	

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.189	0.10	43.13	-	43.23	-	64.08	54.08	-20.85	-
2	0.252	0.10	37.65	-	37.75	-	61.71	51.71	-23.96	-
3	0.443	0.11	37.10	-	37.21	-	57.01	47.01	-19.80	-
4	0.947	0.19	37.08	-	37.27	-	56.00	46.00	-18.73	-
5	20.963	0.96	45.07	-	46.03	-	60.00	50.00	-13.97	-
6	23.738	1.12	42.60	-	43.72	-	60.00	50.00	-16.28	-

REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission level - Limit value
5. Correction factor = Insertion loss + Cable loss
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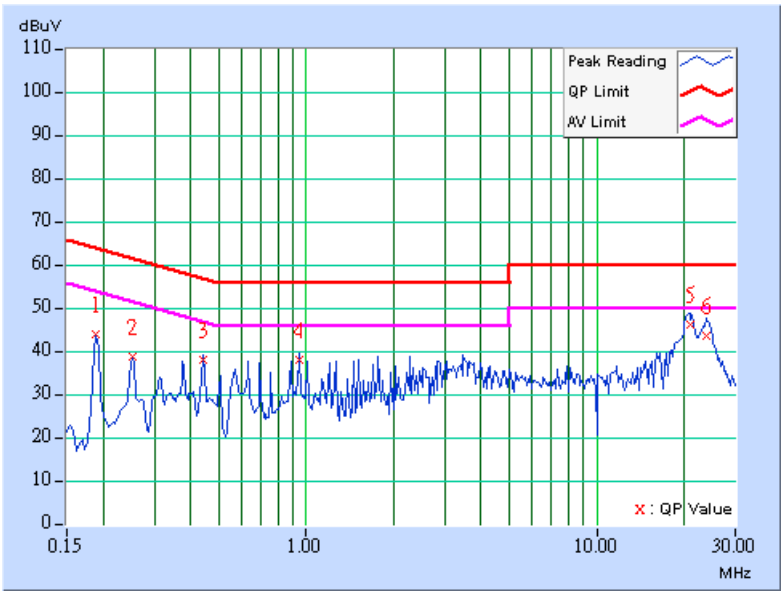

EUT	802.11g Wireless PCI Adapter	**MODEL**	DWL-G510
MODE	Channel 11	**6dB BANDWIDTH**	9kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**PHASE**	Neutral (N)
ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 991hPa	**TESTED BY**: Jamison Chan	

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.189	0.10	42.79	-	42.89	-	64.08	54.08	-21.19	-
2	0.314	0.10	42.02	-	42.12	-	59.86	49.86	-17.74	-
3	0.568	0.13	39.14	-	39.27	-	56.00	46.00	-16.73	-
4	3.340	0.27	34.00	-	34.27	-	56.00	46.00	-21.73	-
5	20.768	0.83	44.97	-	45.80	-	60.00	50.00	-14.20	-
6	23.923	0.96	42.11	-	43.07	-	60.00	50.00	-16.93	-

REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission level - Limit value
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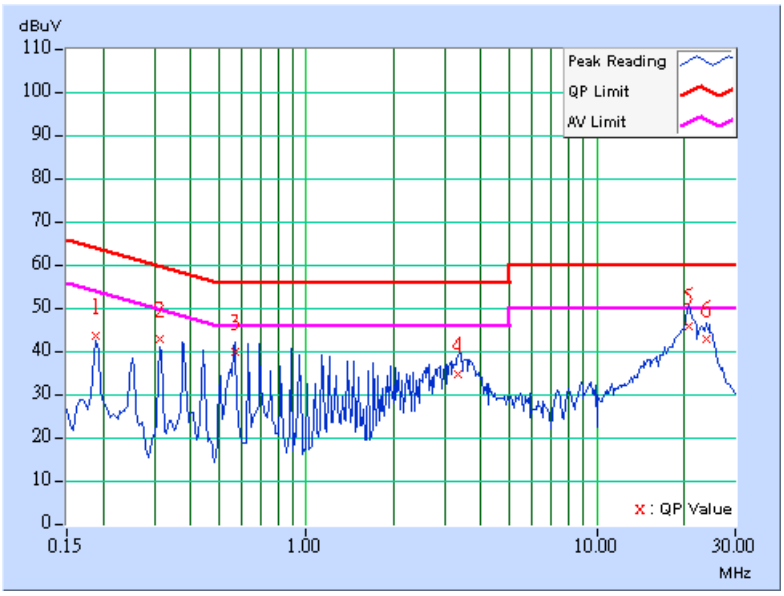


4.2 RADIATED EMISSION MEASUREMENT

4.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

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	8593E	3911A07465	July 07, 2004
* HP Preamplifier	8447D	2432A03504	June 10, 2004
* HP Preamplifier	8449B	3008A01201	Dec. 11, 2004
SCHAFFNER Tunable Dipole Antenna SCHWARZBECK Tunable Dipole Antenna	VHBA 9123 UHA 9105	459 977	Jun. 26, 2004
* ROHDE & SCHWARZ TEST RECEIVER	ESMI	839013/007 839379/002	Feb. 13, 2004
*Schwarzbeck Antenna	VULB9168	137	Apr. 03, 2004
* SCHWARZBECK Horn Antenna	BBHA9120-D1	D130	June 30, 2004
*ADT. Turn Table	TT100	0306	NA
*ADT. Tower	AT100	0306	NA
*Software	ADT_Radiated_V5.14	NA	NA
*TIMES RF cable	LL142	CABLE-CH6-01	Apr. 30, 2004

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. "*" = 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 Chamber No. 6.

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.

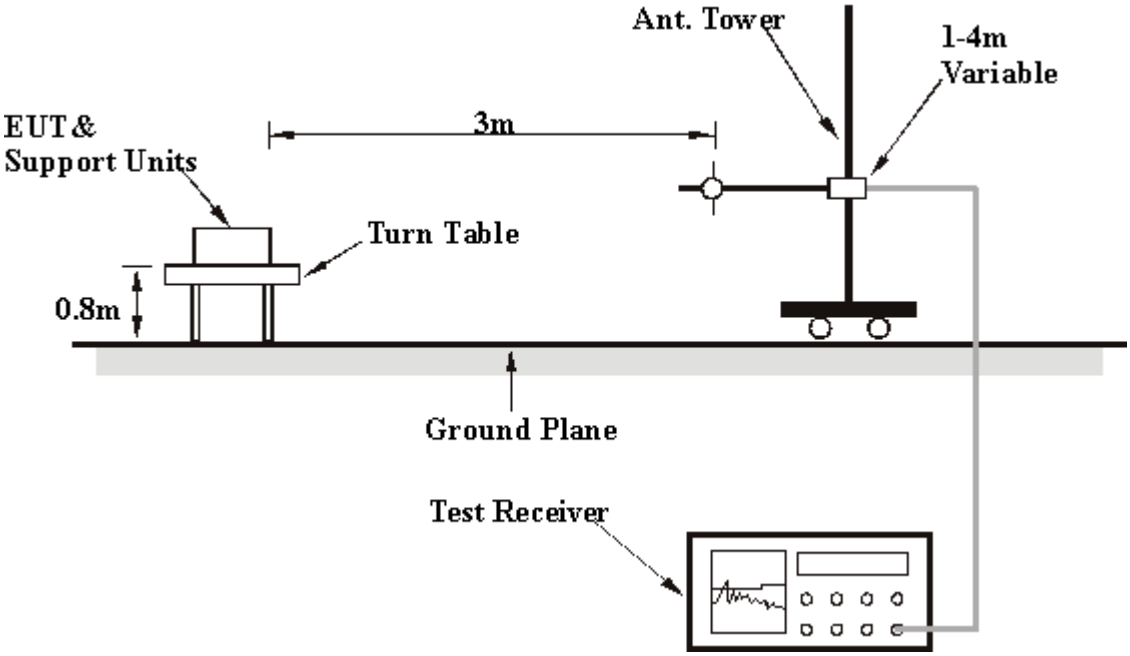
NOTE:

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 10Hz for Average detection (AV) at frequency above 1GHz.

4.2.4 DEVIATION FROM TEST STANDARD

No deviation

4.2.5 TEST SETUP



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

4.2.6 EUT OPERATING CONDITIONS

Same as 4.1.6

4.2.7 TEST RESULTS

EUT	802.11g Wireless PCI Adapter	**MODEL**	DWL-G510
MODE	Channel 11	**FREQUENCY RANGE**	Below 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**DETECTOR FUNCTION**	Quasi-Peak
ENVIRONMENTAL CONDITIONS	20deg. C, 76%RH, 991hPa	**TESTED BY**: Steven Lu	

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	168.02	37.80 QP	43.50	-5.70	1.75 H	64	24.23	13.57
2	236.05	34.05 QP	46.00	-11.95	1.25 H	355	21.07	12.98
3	302.14	30.11 QP	46.00	-15.89	1.00 H	1	14.96	15.15
4	331.30	32.07 QP	46.00	-13.93	1.00 H	340	16.14	15.92
5	368.24	31.27 QP	46.00	-14.73	1.00 H	124	14.38	16.89
6	436.27	31.65 QP	46.00	-14.35	1.75 H	10	12.78	18.86
7	473.21	35.37 QP	46.00	-10.63	1.75 H	4	15.74	19.63
8	502.36	34.28 QP	46.00	-11.72	1.50 H	4	14.22	20.06
9	539.30	38.33 QP	46.00	-7.67	1.50 H	13	17.44	20.88
10	574.29	39.56 QP	46.00	-6.44	1.25 H	1	17.72	21.84
11	603.45	37.24 QP	46.00	-8.76	1.25 H	352	14.59	22.64
12	659.82	37.54 QP	46.00	-8.46	1.00 H	346	14.15	23.39
13	675.57	41.00 QP	46.00	-5.00	1.50 H	210	17.38	23.62
14	704.53	41.83 QP	46.00	-4.17	1.00 H	343	17.72	24.10
15	720.08	41.87 QP	46.00	-4.13	1.00 H	346	17.34	24.53
16	811.44	39.43 QP	46.00	-6.57	1.00 H	298	13.69	25.74

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.

EUT	802.11g Wireless PCI Adapter	**MODEL**	DWL-G510
MODE	Channel 11	**FREQUENCY RANGE**	Below 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**DETECTOR FUNCTION**	Quasi-Peak
ENVIRONMENTAL CONDITIONS	20deg. C, 76%RH, 991hPa	**TESTED BY**: Steven Lu	

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	166.07	27.64 QP	43.50	-15.86	1.00 V	34	13.90	13.74
2	234.11	25.66 QP	46.00	-20.34	1.75 V	313	12.78	12.88
3	473.21	29.29 QP	46.00	-16.71	1.00 V	235	9.66	19.63
4	502.36	30.27 QP	46.00	-15.73	1.75 V	142	10.21	20.06
5	539.30	34.73 QP	46.00	-11.27	1.00 V	232	13.84	20.88
6	574.29	36.70 QP	46.00	-9.30	1.75 V	52	14.86	21.84
7	603.45	34.31 QP	46.00	-11.69	1.50 V	43	11.67	22.64
8	642.32	34.28 QP	46.00	-11.72	1.25 V	40	11.13	23.15
9	671.48	38.04 QP	46.00	-7.96	1.25 V	34	14.47	23.56
10	720.08	37.14 QP	46.00	-8.86	2.00 V	25	12.61	24.53
11	745.35	39.47 QP	46.00	-6.53	1.25 V	169	14.25	25.22
12	809.50	34.51 QP	46.00	-11.49	1.50 V	4	8.79	25.72
13	881.42	34.45 QP	46.00	-11.55	1.00 V	154	7.68	26.77
14	916.41	35.40 QP	46.00	-10.60	1.00 V	148	8.08	27.33

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.

EUT	802.11g Wireless PCI Adapter	**MODEL**	DWL-G510
MODE	CCK	**FREQUENCY RANGE**	Above 1000MHz
CHANNEL	Channel 1		
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	20deg. C, 76%RH, 991hPa	**TESTED BY**: Steven Lu	

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	2038.00	44.33 PK	74.00	-29.67	1.82 H	63	13.32	31.00
2	2320.00	56.29 PK	74.00	-17.71	1.80 H	63	24.90	31.39
2	2320.00	48.43 AV	54.00	-5.57	1.80 H	63	17.04	31.39
3	2376.00	56.03 PK	74.00	-17.97	1.80 H	63	24.57	31.46
3	2376.00	48.17 AV	54.00	-5.83	1.80 H	63	16.71	31.46
4	*2412.00	108.59 PK			1.80 H	63	77.08	31.51
4	*2412.00	100.73 AV			1.80 H	63	69.22	31.51
5	2580.00	56.13 PK	88.59	-32.46	1.82 H	63	24.16	31.96
5	2580.00	52.43 AV	80.73	-28.30	1.82 H	63	20.46	31.96

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. “ * “ : Fundamental frequency

EUT	802.11g Wireless PCI Adapter	**MODEL**	DWL-G510
MODE	CCK	**FREQUENCY RANGE**	Above 1000MHz
CHANNEL	Channel 1		
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	20deg. C, 76%RH, 991hPa	**TESTED BY**: Steven Lu	

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	2038.00	44.37 PK	74.00	-29.63	1.15 V	20	13.36	31.00
2	2320.00	59.73 PK	74.00	-14.27	1.48 V	65	28.34	31.39
2	2320.00	52.16 AV	54.00	-1.84	1.48 V	65	20.77	31.39
3	2376.00	59.47 PK	74.00	-14.53	1.48 V	65	28.01	31.46
3	2376.00	51.90 AV	54.00	-2.10	1.48 V	65	20.44	31.46
4	*2412.00	112.03 PK			1.48 V	65	80.52	31.51
4	*2412.00	104.46 AV			1.48 V	65	72.95	31.51
5	2580.00	59.77 PK	92.03	-32.26	1.07 V	32	27.80	31.96
5	2580.00	56.98 AV	84.46	-27.48	1.07 V	32	25.01	31.96

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. “ * “ : Fundamental frequency

EUT	802.11g Wireless PCI Adapter	**MODEL**	DWL-G510
MODE	CCK	**FREQUENCY RANGE**	Above 1000MHz
CHANNEL	Channel 06		
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	20deg. C, 76%RH, 991hPa	**TESTED BY**: Steven Lu	

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	2063.00	44.05 PK	74.00	-29.95	2.16 H	67	13.01	31.04
2	2280.00	54.34 PK	74.00	-19.66	1.47 H	54	23.01	31.33
2	2280.00	46.69 AV	54.00	-7.31	1.47 H	54	15.36	31.33
3	2310.00	56.23 PK	74.00	-17.77	1.47 H	54	24.86	31.37
3	2310.00	48.58 AV	54.00	-5.42	1.47 H	54	17.21	31.37
4	2332.00	52.13 PK	74.00	-21.87	1.47 H	54	20.73	31.40
4	2332.00	44.48 AV	54.00	-9.52	1.47 H	54	13.08	31.40
5	2354.00	54.78 PK	74.00	-19.22	1.47 H	54	23.35	31.43
5	2354.00	47.13 AV	54.00	-6.87	1.47 H	54	15.70	31.43
6	2376.00	53.27 PK	74.00	-20.73	1.47 H	54	21.81	31.46
6	2376.00	45.62 AV	54.00	-8.38	1.47 H	54	14.16	31.46
7	2400.00	60.05 PK	87.26	-27.21	1.47 H	54	28.56	31.49
7	2400.00	52.43 AV	79.61	-27.18	1.47 H	54	20.94	31.49
8	*2437.00	107.26 PK			1.47 H	54	75.72	31.54
8	*2437.00	99.61 AV			1.47 H	54	68.07	31.54
9	2560.00	52.56 PK	87.26	-34.70	1.36 H	136	20.69	31.88
9	2560.00	46.75 AV	79.61	-32.86	1.36 H	136	14.88	31.88

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. " * " : Fundamental frequency

EUT	802.11g Wireless PCI Adapter	**MODEL**	DWL-G510
MODE	CCK	**FREQUENCY RANGE**	Above 1000MHz
CHANNEL	Channel 06		
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	20deg. C, 76%RH, 991hPa	**TESTED BY**: Steven Lu	

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	2063.00	44.34 PK	74.00	-29.66	1.47 V	20	13.30	31.04
2	2280.00	58.34 PK	74.00	-15.66	1.16 V	82	27.01	31.33
2	2280.00	50.38 AV	54.00	-3.62	1.16 V	82	19.05	31.33
3	2310.00	59.96 PK	74.00	-14.04	1.16 V	82	28.59	31.37
3	2310.00	52.27 AV	54.00	-1.73	1.16 V	82	20.90	31.37
4	2320.00	58.85 PK	74.00	-15.15	1.16 V	82	27.46	31.39
4	2320.00	51.16 AV	54.00	-2.84	1.16 V	82	19.77	31.39
5	2332.00	55.86 PK	74.00	-18.14	1.16 V	82	24.46	31.40
5	2332.00	48.17 AV	54.00	-5.83	1.16 V	82	16.77	31.40
6	2354.00	58.51 PK	74.00	-15.49	1.16 V	82	27.08	31.43
6	2354.00	50.82 AV	54.00	-3.18	1.16 V	82	19.39	31.43
7	2376.00	57.00 PK	74.00	-17.00	1.16 V	82	25.54	31.46
7	2376.00	49.31 AV	54.00	-4.69	1.16 V	82	17.85	31.46
8	2400.00	63.81 PK	90.99	-27.18	1.16 V	82	32.32	31.49
8	2400.00	56.12 AV	83.30	-27.18	1.16 V	82	24.63	31.49
9	*2437.00	110.99 PK			1.16 V	82	79.45	31.54
9	*2437.00	103.30 AV			1.16 V	82	71.76	31.54
10	2560.00	58.29 PK	90.99	-32.70	1.30 V	212	26.42	31.88
10	2560.00	52.82 AV	83.30	-30.48	1.30 V	212	20.95	31.88

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. “ * “ : Fundamental frequency

EUT	802.11g Wireless PCI Adapter	**MODEL**	DWL-G510
MODE	CCK	**FREQUENCY RANGE**	Above 1000MHz
CHANNEL	Channel 11		
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	20deg. C, 76%RH, 991hPa	**TESTED BY**: Steven Lu	

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	2088.00	44.04 PK	74.00	-29.96	1.52 H	20	12.97	31.07
2	2280.00	55.49 PK	74.00	-18.51	1.42 H	52	24.16	31.33
2	2280.00	48.15 AV	54.00	-5.85	1.42 H	52	16.82	31.33
3	2310.00	56.58 PK	74.00	-17.42	1.42 H	52	25.21	31.37
3	2310.00	49.24 AV	54.00	-4.76	1.42 H	52	17.87	31.37
4	2354.00	55.50 PK	74.00	-18.50	1.42 H	52	24.07	31.43
4	2354.00	48.16 AV	54.00	-5.84	1.42 H	52	16.73	31.43
5	2376.00	54.03 PK	74.00	-19.97	1.42 H	52	22.57	31.46
5	2376.00	46.69 AV	54.00	-7.31	1.42 H	52	15.23	31.46
6	2400.00	59.46 PK	87.44	-27.98	1.42 H	52	27.97	31.49
6	2400.00	52.12 AV	80.10	-27.98	1.42 H	52	20.63	31.49
7	*2462.00	107.44 PK			1.42 H	52	75.87	31.57
7	*2462.00	100.10 AV			1.42 H	52	68.53	31.57
8	2484.00	50.81 PK	74.00	-23.19	1.42 H	52	19.21	31.60
9	2560.00	52.63 PK	87.44	-34.81	1.22 H	312	20.76	31.88
9	2560.00	46.74 AV	80.10	-33.36	1.22 H	312	14.87	31.88

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. “ * “ : Fundamental frequency

EUT	802.11g Wireless PCI Adapter	**MODEL**	DWL-G510
MODE	CCK	**FREQUENCY RANGE**	Above 1000MHz
CHANNEL	Channel 11		
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	20deg. C, 76%RH, 991hPa	**TESTED BY**: Steven Lu	

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	2088.00	44.09 PK	74.00	-29.91	1.48 V	52	13.02	31.07
2	2280.00	59.95 PK	74.00	-14.05	1.40 V	55	28.62	31.33
2	2280.00	52.20 AV	54.00	-1.80	1.40 V	55	20.87	31.33
3	2310.00	61.04 PK	74.00	-12.96	1.21 V	62	29.67	31.37
3	2310.00	53.29 AV	54.00	-0.71	1.21 V	62	21.92	31.37
4	2354.00	59.96 PK	74.00	-14.04	1.40 V	55	28.53	31.43
4	2354.00	52.10 AV	54.00	-1.90	1.40 V	55	20.67	31.43
5	2376.00	58.49 PK	74.00	-15.51	1.40 V	55	27.03	31.46
5	2376.00	50.74 AV	54.00	-3.26	1.40 V	55	19.28	31.46
6	2400.00	63.92 PK	91.90	-27.98	1.40 V	55	32.43	31.49
6	2400.00	56.17 AV	84.15	-27.98	1.40 V	55	24.68	31.49
7	*2462.00	111.90 PK			1.40 V	55	80.33	31.57
7	*2462.00	104.15 AV			1.40 V	55	72.58	31.57
8	2484.00	55.27 PK	74.00	-18.73	1.40 V	55	23.67	31.60
8	2484.00	47.52 AV	54.00	-6.48	1.40 V	55	15.92	31.60
9	2560.00	57.33 PK	91.90	-34.57	1.83 V	205	25.46	31.88
9	2560.00	52.08 AV	84.15	-32.07	1.83 V	205	20.21	31.88

EUT	802.11g Wireless PCI Adapter	**MODEL**	DWL-G510
MODE	OFDM	**FREQUENCY RANGE**	Above 1000MHz
CHANNEL	Channel 1		
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	20deg. C, 76%RH, 991hPa	**TESTED BY**: Steven Lu	

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	2038.00	44.44 PK	74.00	-29.56	1.21 H	310	13.43	31.00
2	2280.00	59.50 PK	84.25	-24.75	1.32 H	307	28.17	31.33
2	2280.00	50.38 AV	75.13	-24.75	1.32 H	307	19.05	31.33
3	2310.00	59.13 PK	74.00	-14.87	1.32 H	307	27.76	31.37
3	2310.00	50.01 AV	54.00	-3.99	1.32 H	307	18.64	31.37
4	2320.00	57.01 PK	74.00	-16.99	1.32 H	307	25.62	31.39
4	2320.00	47.89 AV	54.00	-6.11	1.32 H	307	16.50	31.39
5	2332.00	54.34 PK	74.00	-19.66	1.32 H	307	22.94	31.40
5	2332.00	45.22 AV	54.00	-8.78	1.32 H	307	13.82	31.40
6	2354.00	57.57 PK	74.00	-16.43	1.32 H	307	26.14	31.43
6	2354.00	48.45 AV	54.00	-5.55	1.32 H	307	17.02	31.43
7	2390.00	53.08 PK	74.00	-20.92	1.32 H	307	21.60	31.48
7	2390.00	43.96 AV	54.00	-10.04	1.32 H	307	12.48	31.48
8	*2412.00	104.25 PK			1.32 H	307	72.74	31.51
8	*2412.00	95.13 AV			1.32 H	307	63.62	31.51
9	2580.00	54.20 PK	84.25	-30.05	1.15 H	140	22.23	31.96
9	2580.00	50.16 AV	75.13	-24.97	1.15 H	140	18.19	31.96

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. “ * “ : Fundamental frequency

EUT	802.11g Wireless PCI Adapter	**MODEL**	DWL-G510
MODE	OFDM	**FREQUENCY RANGE**	Above 1000MHz
CHANNEL	Channel 1		
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	20deg. C, 76%RH, 991hPa	**TESTED BY**: Steven Lu	

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	2038.00	48.62 PK	74.00	-25.38	1.44 V	60	17.61	31.00
2	2280.00	57.28 PK	89.72	-32.44	1.27 V	66	25.95	31.33
2	2280.00	52.77 AV	80.41	-27.64	1.27 V	66	21.44	31.33
3	2310.00	61.60 PK	74.00	-12.40	1.68 V	40	30.23	31.37
3	2310.00	52.29 AV	54.00	-1.71	1.68 V	40	20.92	31.37
4	2320.00	59.48 PK	74.00	-14.52	1.68 V	40	28.09	31.39
4	2320.00	50.17 AV	54.00	-3.83	1.68 V	40	18.78	31.39
5	2332.00	56.81 PK	74.00	-17.19	1.68 V	40	25.41	31.40
5	2332.00	47.50 AV	54.00	-6.50	1.68 V	40	16.10	31.40
6	2354.00	60.04 PK	74.00	-13.96	1.68 V	40	28.61	31.43
6	2354.00	50.73 AV	54.00	-3.27	1.68 V	40	19.30	31.43
7	2390.00	55.55 PK	74.00	-18.45	1.68 V	40	24.07	31.48
7	2390.00	46.24 AV	54.00	-7.76	1.68 V	40	14.76	31.48
8	*2412.00	109.72 PK			1.68 V	40	73.21	31.51
8	*2412.00	100.41 AV			1.68 V	40	68.90	31.51
9	2580.00	62.01 PK	89.72	-27.71	1.40 V	100	30.04	31.96
9	2580.00	58.01 AV	80.41	-22.40	1.40 V	100	26.04	31.96

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. “ * “ : Fundamental frequency

EUT	802.11g Wireless PCI Adapter	**MODEL**	DWL-G510
MODE	OFDM	**FREQUENCY RANGE**	Above 1000MHz
CHANNEL	Channel 06		
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	20deg. C, 76%RH, 991hPa	**TESTED BY**: Steven Lu	

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	2063.00	43.92 PK	74.00	-30.08	1.47 H	54	12.88	31.04
2	2280.00	53.94 PK	86.00	-32.06	1.60 H	66	22.61	31.33
2	2280.00	47.82 AV	76.71	-28.89	1.60 H	66	16.49	31.33
3	2310.00	58.32 PK	74.00	-15.68	1.44 H	53	26.95	31.37
3	2310.00	49.03 AV	54.00	-4.97	1.44 H	53	17.66	31.37
4	2320.00	58.09 PK	74.00	-15.91	1.44 H	53	26.70	31.39
4	2320.00	48.74 AV	54.00	-5.26	1.44 H	53	17.35	31.39
5	2343.00	57.62 PK	74.00	-16.38	1.90 H	65	26.21	31.42
5	2343.00	51.53 AV	54.00	-2.47	1.90 H	65	20.12	31.42
6	2354.00	56.73 PK	74.00	-17.27	1.44 H	53	25.30	31.43
6	2354.00	47.44 AV	54.00	-6.56	1.44 H	53	16.01	31.43
7	2382.00	56.62 PK	74.00	-17.38	1.44 H	53	25.15	31.47
7	2382.00	47.33 AV	54.00	-6.67	1.44 H	53	15.86	31.47
8	2400.00	60.18 PK	74.00	-13.82	1.44 H	53	28.69	31.49
8	2400.00	50.89 AV	54.00	-3.11	1.44 H	53	19.40	31.49
9	*2437.00	106.00 PK			1.44 H	53	74.46	31.54
9	*2437.00	96.71 AV			1.44 H	53	65.17	31.54
10	2560.00	54.00 PK	86.00	-32.00	1.62 H	134	22.13	31.88
10	2560.00	47.23 AV	76.71	-29.48	1.62 H	134	15.36	31.88

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. “ * “ : Fundamental frequency

EUT	802.11g Wireless PCI Adapter	**MODEL**	DWL-G510
MODE	OFDM	**FREQUENCY RANGE**	Above 1000MHz
CHANNEL	Channel 06		
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	20deg. C, 76%RH, 991hPa	**TESTED BY**: Steven Lu	

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	2063.00	44.72 PK	74.00	-29.28	1.14 V	24	13.68	31.04
2	2280.00	63.30 PK	91.67	-28.37	1.13 V	100	31.97	31.33
2	2280.00	53.69 AV	82.06	-28.37	1.13 V	100	22.36	31.33
3	2310.00	59.80 PK	74.00	-14.20	1.26 V	64	28.42	31.37
3	**2310.00**	**53.62 AV**	**54.00**	**-0.38**	**1.26 V**	**64**	**22.24**	**31.37**
4	2320.00	58.50 PK	74.00	-15.50	1.25 V	60	27.11	31.39
4	2320.00	51.21 AV	54.00	-2.79	1.25 V	60	19.82	31.39
5	2343.00	61.86 PK	74.00	-12.14	1.13 V	100	30.44	31.42
5	2343.00	52.25 AV	54.00	-1.75	1.13 V	100	20.83	31.42
6	2354.00	62.40 PK	74.00	-11.60	1.13 V	100	30.97	31.43
6	2354.00	52.79 AV	54.00	-1.21	1.13 V	100	21.36	31.43
7	2382.00	62.29 PK	74.00	-11.71	1.13 V	100	30.82	31.47
7	2382.00	52.68 AV	54.00	-1.32	1.13 V	100	21.21	31.47
9	*2437.00	111.67 PK			1.49 V	60	80.13	31.54
9	*2437.00	102.06 AV			1.49 V	60	70.52	31.54
10	2560.00	58.91 PK	91.67	-32.76	1.13 V	100	27.04	31.88
10	2560.00	53.00 AV	82.06	-29.06	1.13 V	100	21.13	31.88

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. " * " : Fundamental frequency

EUT	802.11g Wireless PCI Adapter	**MODEL**	DWL-G510
MODE	OFDM	**FREQUENCY RANGE**	Above 1000MHz
CHANNEL	Channel 11		
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	20deg. C, 76%RH, 991hPa	**TESTED BY**: Steven Lu	

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	2088.00	43.99 PK	74.00	-30.01	1.82 H	42	12.92	31.07
2	2280.00	57.88 PK	85.14	-27.26	1.49 H	52	26.55	31.33
2	2280.00	48.47 AV	75.73	-27.26	1.49 H	52	17.14	31.33
3	2320.00	55.08 PK	74.00	-18.92	1.32 H	24	23.69	31.39
3	2320.00	48.96 AV	54.00	-5.04	1.32 H	24	17.57	31.39
5	*2462.00	105.14 PK			1.49 H	52	73.57	31.57
5	*2462.00	95.73 AV			1.49 H	52	64.16	31.57
6	2484.00	55.55 PK	74.00	-18.45	1.49 H	52	23.95	31.60
6	2484.00	46.14 AV	54.00	-7.86	1.49 H	52	14.54	31.60
7	2560.00	53.95 PK	85.14	-31.19	1.20 H	135	22.08	31.88
7	2560.00	48.02 AV	75.73	-27.71	1.20 H	135	16.15	31.88

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. “ * “ : Fundamental frequency

EUT	802.11g Wireless PCI Adapter	**MODEL**	DWL-G510
MODE	OFDM	**FREQUENCY RANGE**	Above 1000MHz
CHANNEL	Channel 11		
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	20deg. C, 76%RH, 991hPa	**TESTED BY**: Steven Lu	

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	2088.00	47.91 PK	74.00	-26.09	1.12 V	87	16.84	31.07
2	2280.00	61.88 PK	89.14	-27.26	1.15 V	83	30.55	31.33
2	2280.00	52.46 AV	79.72	-27.26	1.15 V	83	21.13	31.33
3	2320.00	58.74 PK	74.00	-15.26	1.47 V	28	27.35	31.39
3	2320.00	53.29 AV	54.00	-0.71	1.47 V	28	21.90	31.39
4	2354.00	61.45 PK	74.00	-12.55	1.15 V	83	30.02	31.43
4	2354.00	52.03 AV	54.00	-1.97	1.15 V	83	20.60	31.43
5	*2462.00	109.14 PK			1.15 V	83	77.57	31.57
5	*2462.00	99.72 AV			1.15 V	83	68.15	31.57
6	2484.00	59.55 PK	74.00	-14.45	1.15 V	83	27.95	31.60
6	2484.00	50.13 AV	54.00	-3.87	1.15 V	83	18.53	31.60
7	2560.00	60.80 PK	89.14	-28.34	1.40 V	85	28.93	31.88
7	2560.00	55.56 AV	79.72	-24.16	1.40 V	85	23.69	31.88

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. “ * “ : 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
SPECTRUM ANALYZER	FSEK30	100049	Aug. 12, 2004

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

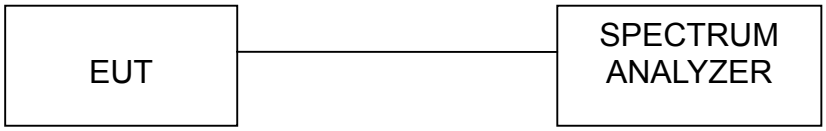
4.3.3 TEST PROCEDURE

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

4.3.4 DEVIATION FROM TEST STANDARD

No deviation

4.3.5 TEST SETUP



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

4.3.6 EUT OPERATING CONDITIONS

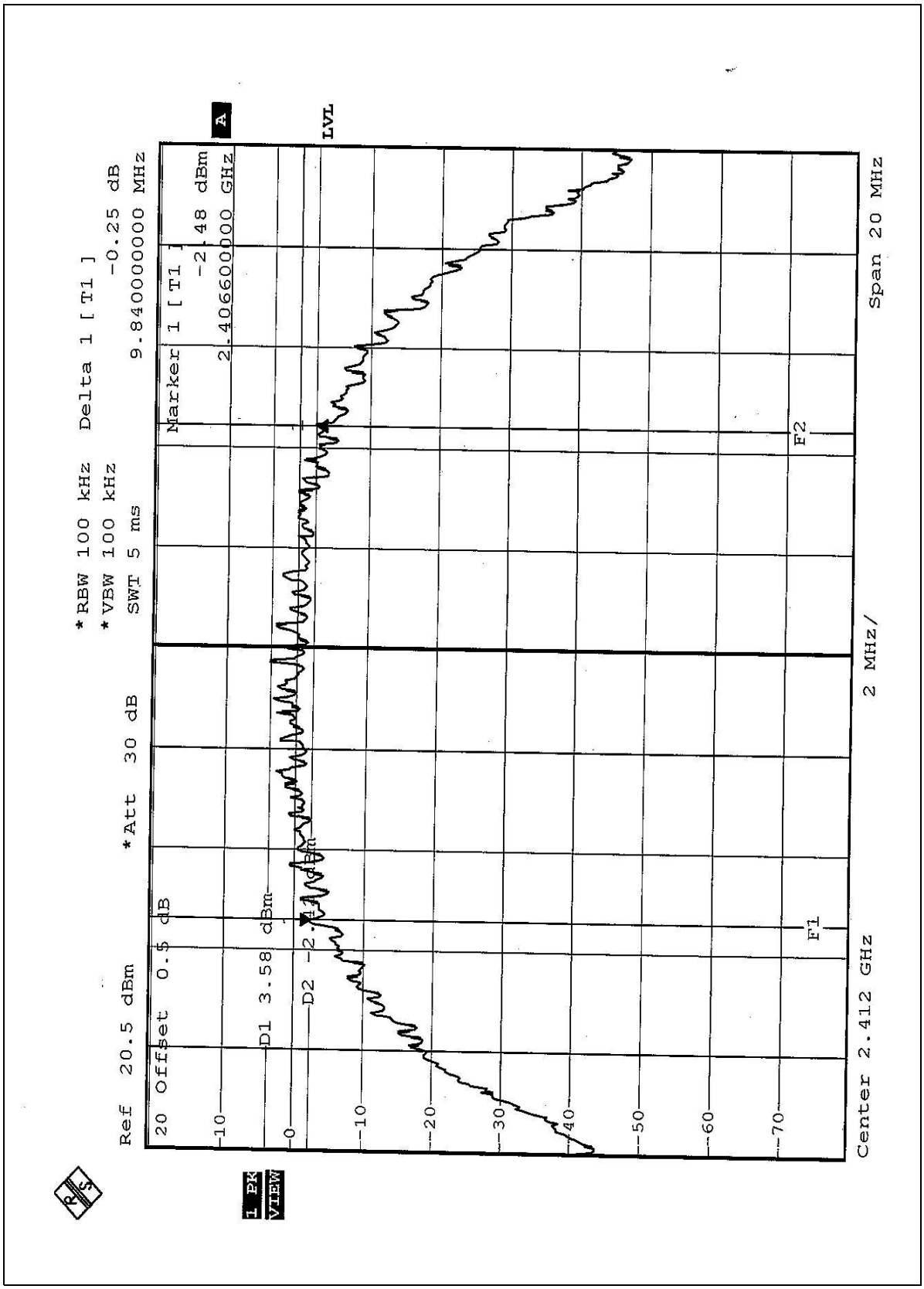
The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

4.3.7 TEST RESULTS

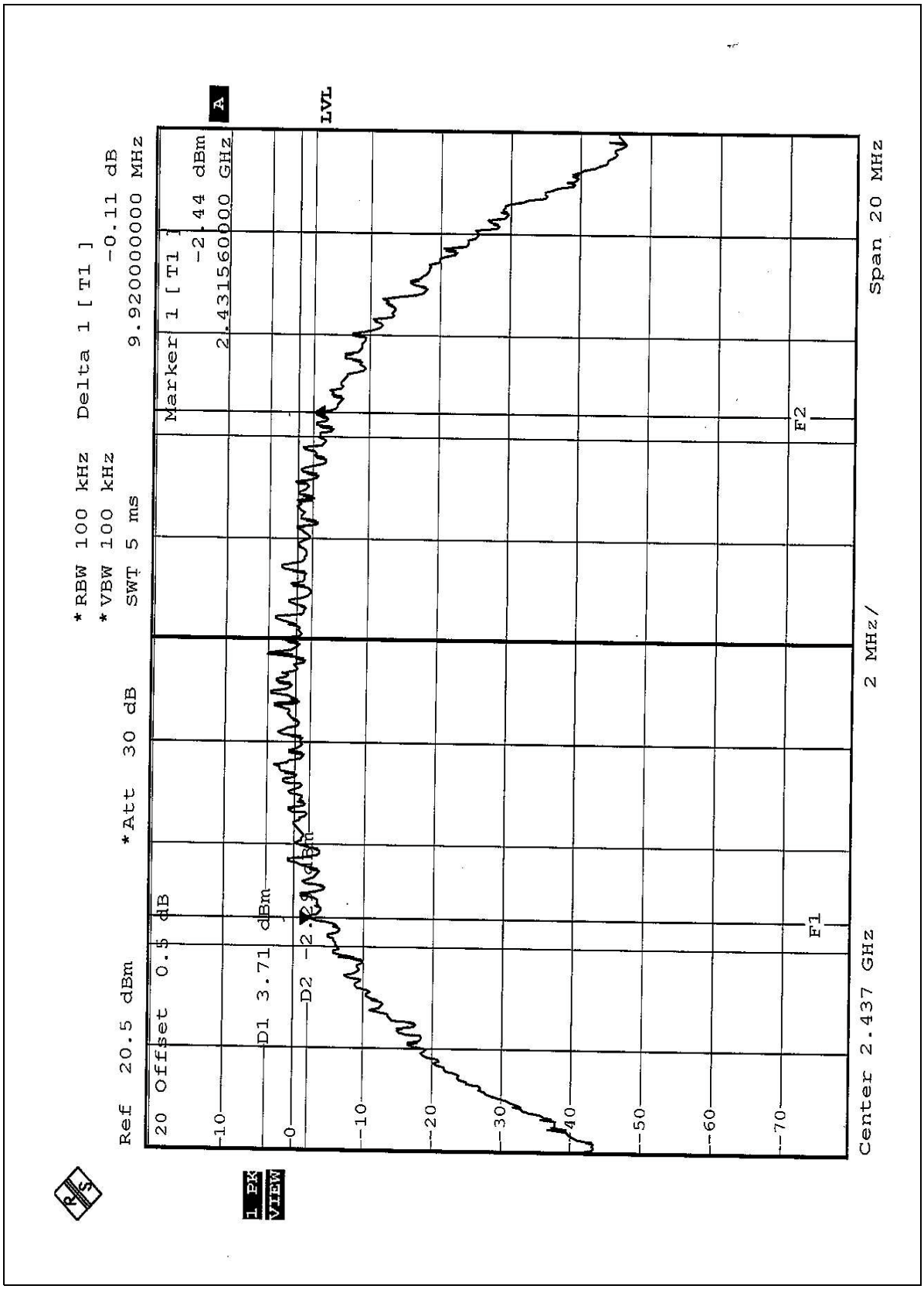
EUT	802.11g Wireless PCI Adapter	**MODEL**	DWL-G510
MODE	CCK	**ENVIRONMENTAL CONDITIONS**	20deg. C, 60%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**TESTED BY**: Jamison Chan	

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS/FAIL
1	2412	9.84	0.5	PASS
6	2437	9.92	0.5	PASS
11	2462	9.24	0.5	PASS

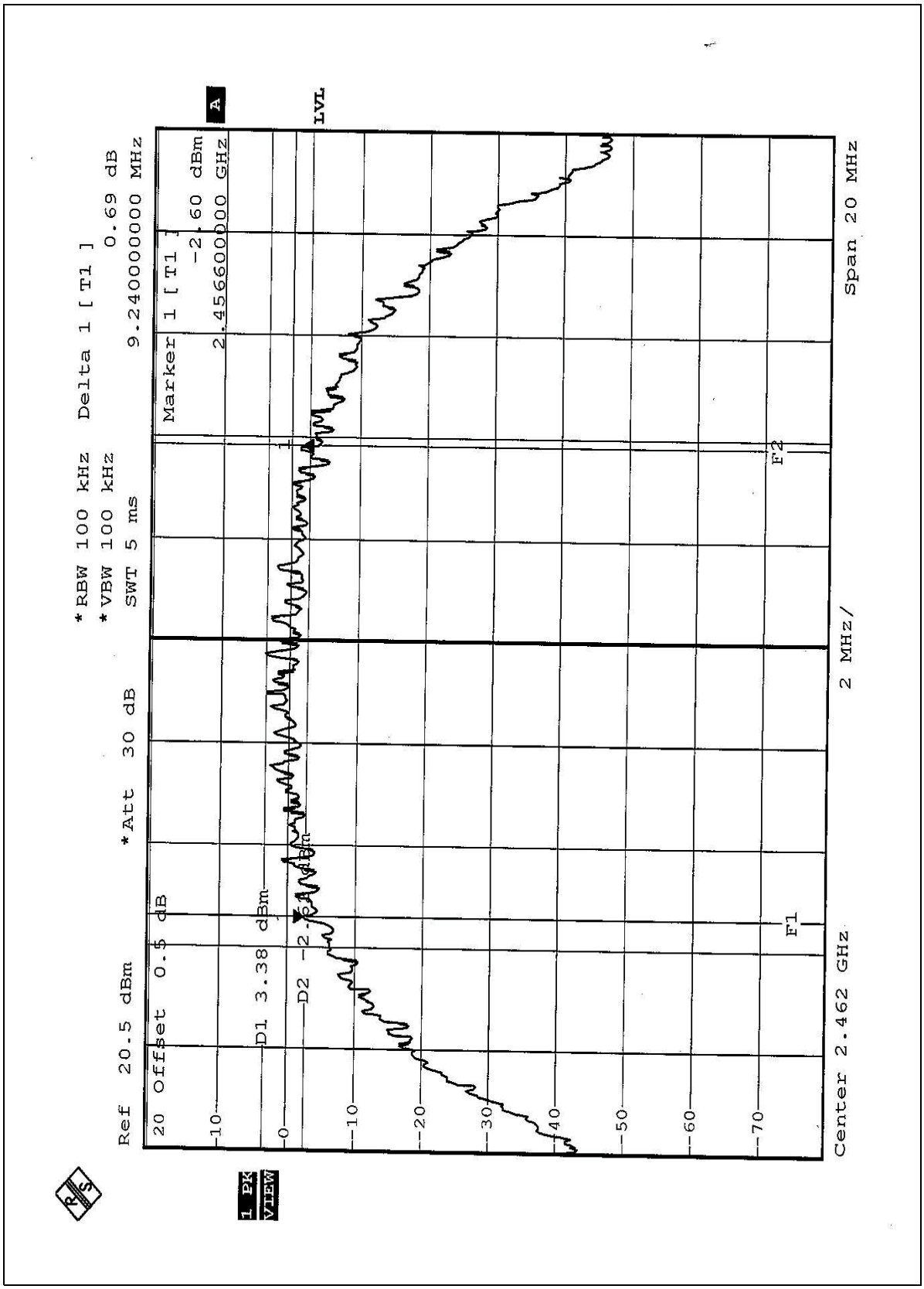
CH1


Ref 20.5 dBm
*Att 30 dB
SWT 5 ms
*RBW 100 kHz
*VBW 100 kHz
Delta 1 [T1] -0.25 dB
9.840000000 MHz
Marker 1 [T1] -2.48 dBm
2.406600000 GHz
20 Offset 0.5 dB
D1 3.58 dBm
D2 -2.14 dBm
LVL
A
1 PK VIEW
F1
F2
Center 2.412 GHz
2 MHz/
Span 20 MHz

CH6


Ref 20.5 dBm
20 Offset 0.5 dB
*Att 30 dB
*RBW 100 kHz
*VBW 100 kHz
SWT 5 ms
Delta 1 [T1]
-0.11 dB
9.920000000 MHz
Marker 1 [T1]
-2.44 dBm
2.431560000 GHz
D1 3.71 dBm
D2 -2.33 dBm
LVL
A
1 PK
VIEW
F1
F2
Center 2.437 GHz
2 MHz/
Span 20 MHz

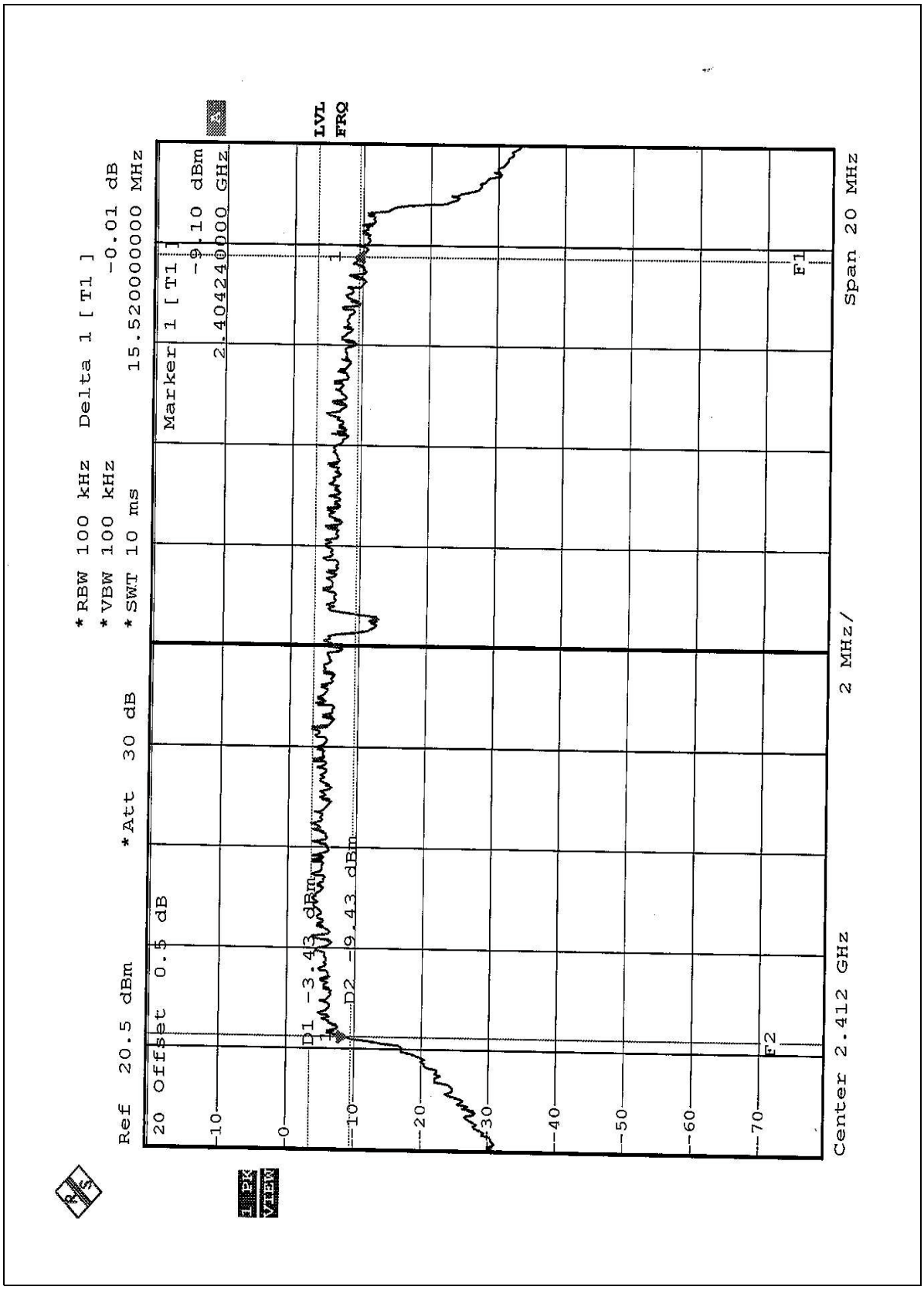
CH11


Ref 20.5 dBm
20 Offset 0.5 dB
*Att 30 dB
*RBW 100 kHz
*VBW 100 kHz
SWT 5 ms
Delta 1 [T1]
0.69 dB
9.240000000 MHz
Marker 1 [T1]
-2.60 dBm
2.456600000 GHz
D1 3.38 dBm
D2 -2.60 dBm
LVL
A
F1
F2
1 PK
VIEW
Center 2.462 GHz
2 MHz/
Span 20 MHz

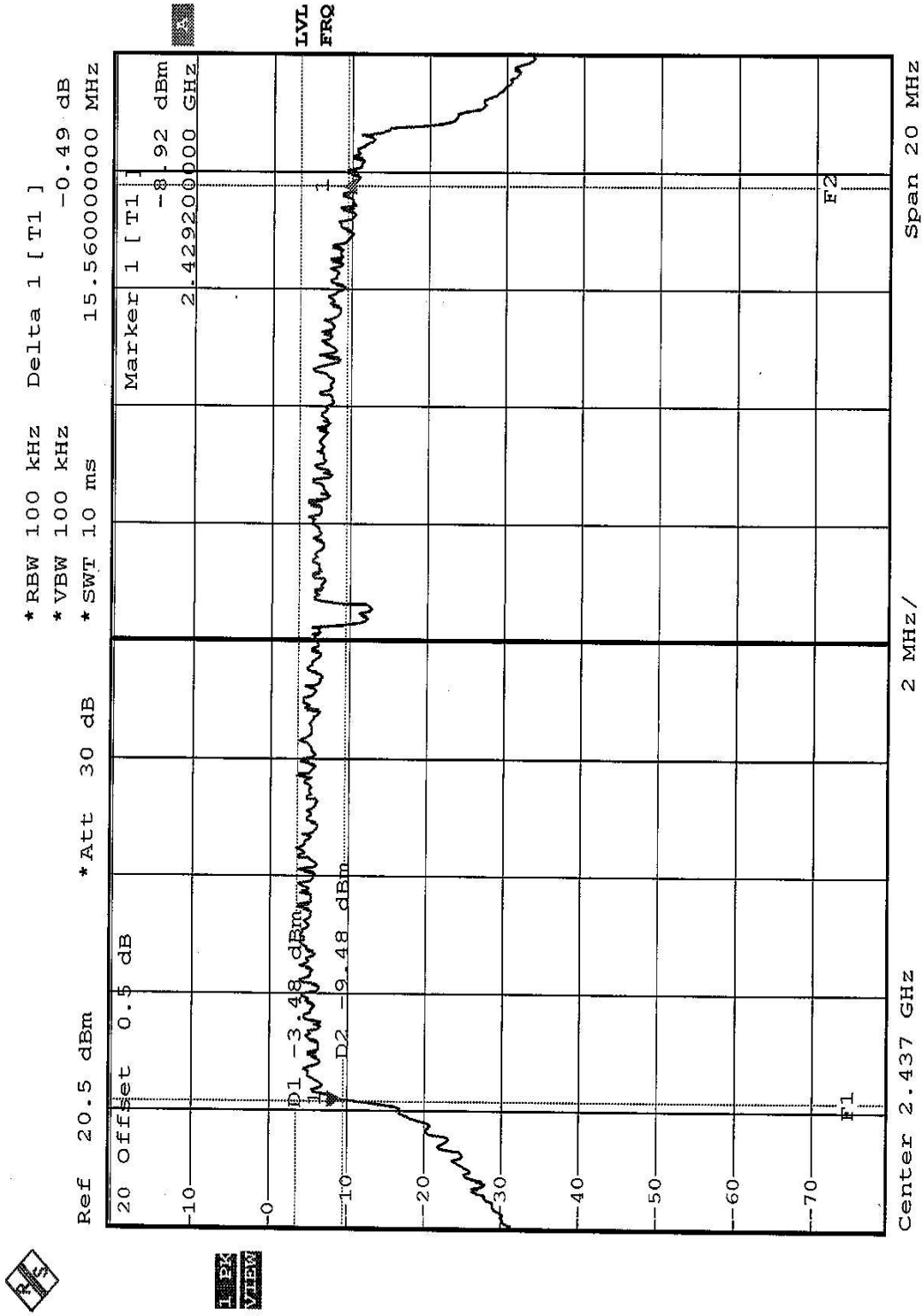
EUT	802.11g Wireless PCI Adapter	**MODEL**	DWL-G510
MODE	OFDM	**ENVIRONMENTAL CONDITIONS**	23deg. C, 64%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**TESTED BY**: Hardaway Lee	

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS/FAIL
1	2412	15.52	0.5	PASS
6	2437	15.56	0.5	PASS
11	2462	15.44	0.5	PASS

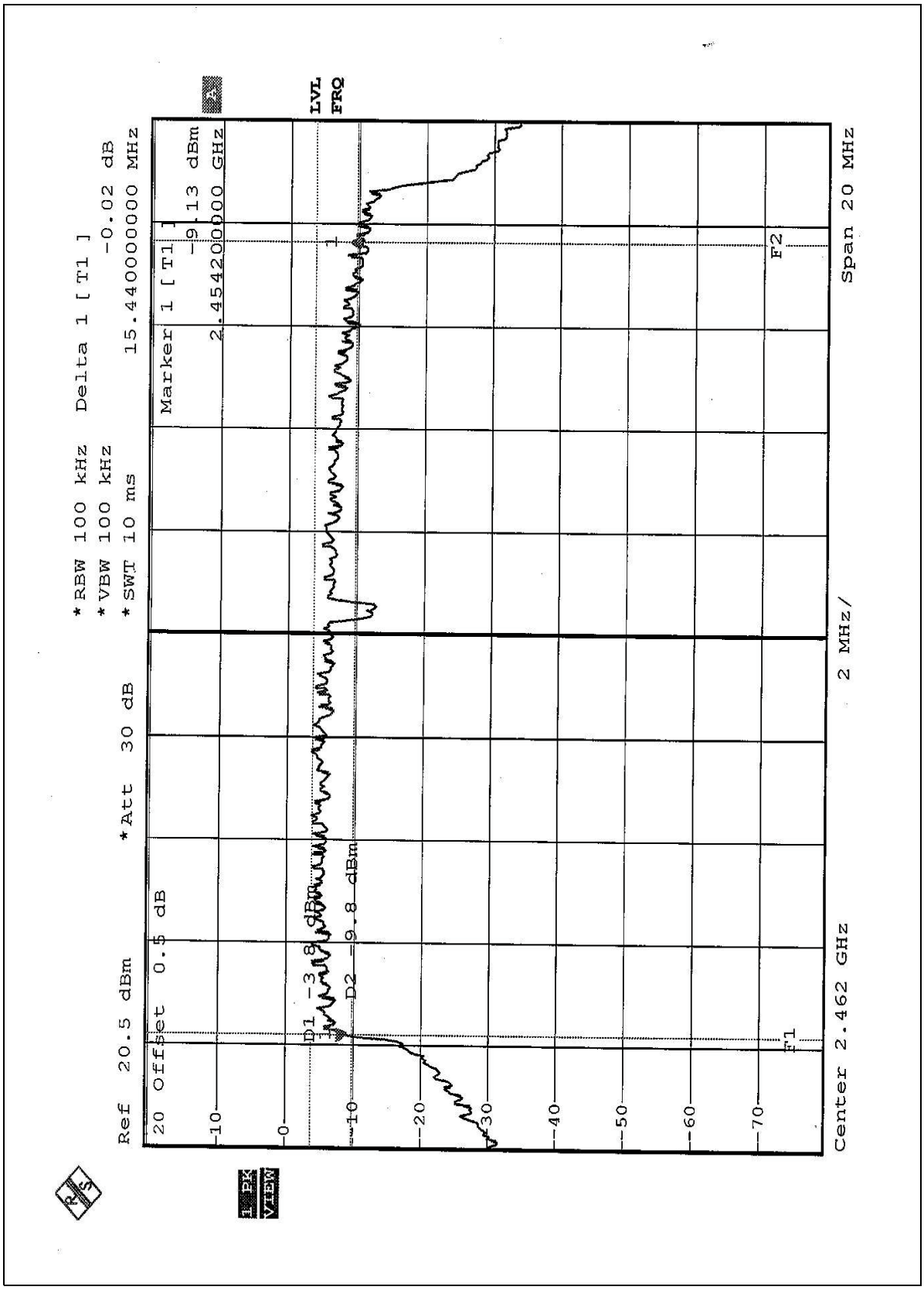
CH1


Ref 20.5 dBm
*Att 30 dB
Offset 0.5 dB
*RBW 100 kHz
*VBW 100 kHz
*SWT 10 ms
Delta 1 [T1]
-0.01 dB
15.520000000 MHz
Marker 1 [T1]
-9.10 dBm
2.404240000 GHz
D1 -3.43 dBm
D2 -9.43 dBm
LVL
FRQ
Center 2.412 GHz
2 MHz/
Span 20 MHz
F1
F2
PK
VIEW

CH6


Ref 20.5 dBm
Att 30 dB
RBW 100 kHz
VBW 100 kHz
SWT 10 ms
Delta 1 [T1]
-0.49 dB
15.56000000 MHz
Marker 1 [T1]
-8.92 dBm
2.42920000 GHz
Offset 0.5 dB
D1 -3.48 dBm
D2 -9.48 dBm
LVL
FRQ
F1
F2
Center 2.437 GHz
2 MHz/
Span 20 MHz

CH11


Ref 20.5 dBm
Offset 0.5 dB
*Att 30 dB
*RBW 100 kHz
*VBW 100 kHz
*SWT 10 ms
Delta 1 [T1] -0.02 dB
15.440000000 MHz
Marker 1 [T1]
-9.13 dBm
2.454200000 GHz
LVL
FRQ
D1 -3.8 dBm
D2 -9.8 dBm
F1
F2
Center 2.462 GHz
2 MHz/
Span 20 MHz
PK
VIEW

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	FSEK30	100049	Aug. 12, 2004
R&S SIGNAL GENERATOR	SMP04	100011	May 28, 2004
TEKTRONIX OSCILLOSCOPE	TDS 220	B048470	Mar. 05, 2004
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.

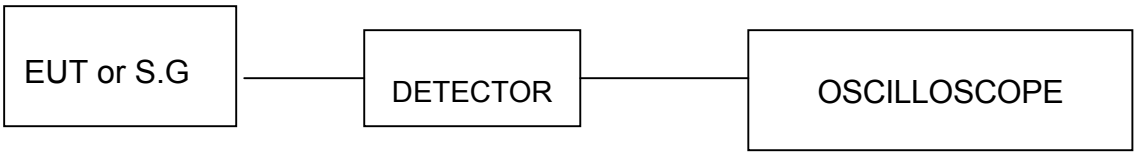
4.4.3 TEST PROCEDURES

1. A detector was used on the output port of the EUT. An oscilloscope was used to read the 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 reading on oscilloscope. Record the power level.

4.4.4 DEVIATION FROM TEST STANDARD

No deviation

4.4.5 TEST SETUP



4.4.6 EUT OPERATING CONDITIONS

Same as Item 4.3.6

4.4.7 TEST RESULTS

EUT	802.11g Wireless PCI Adapter	**MODEL**	DWL-G510
MODE	CCK	**ENVIRONMENTAL CONDITIONS**	23deg. C, 64%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**TESTED BY**: Jamison Chan	

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
1	2412	15.00	30	PASS
6	2437	15.20	30	PASS
11	2462	15.40	30	PASS

EUT	802.11g Wireless PCI Adapter	**MODEL**	DWL-G510
MODE	OFDM	**ENVIRONMENTAL CONDITIONS**	23deg. C, 64%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**TESTED BY**: Hardaway Lee	

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
1	2412	15.00	30	PASS
6	2437	16.00	30	PASS
11	2462	15.20	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
SPECTRUM ANALYZER	FSEK30	100049	Aug. 12, 2004

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

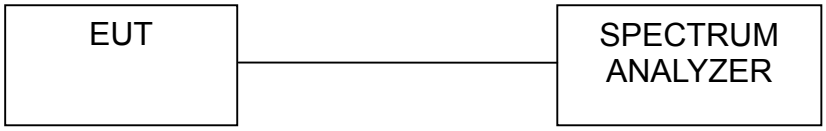
4.5.3 TEST PROCEDURE

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 3kHz RBW and 30kHz 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 DEVIATION FROM TEST STANDARD

No deviation

4.5.5 TEST SETUP



4.5.6 EUT OPERATING CONDITIONS

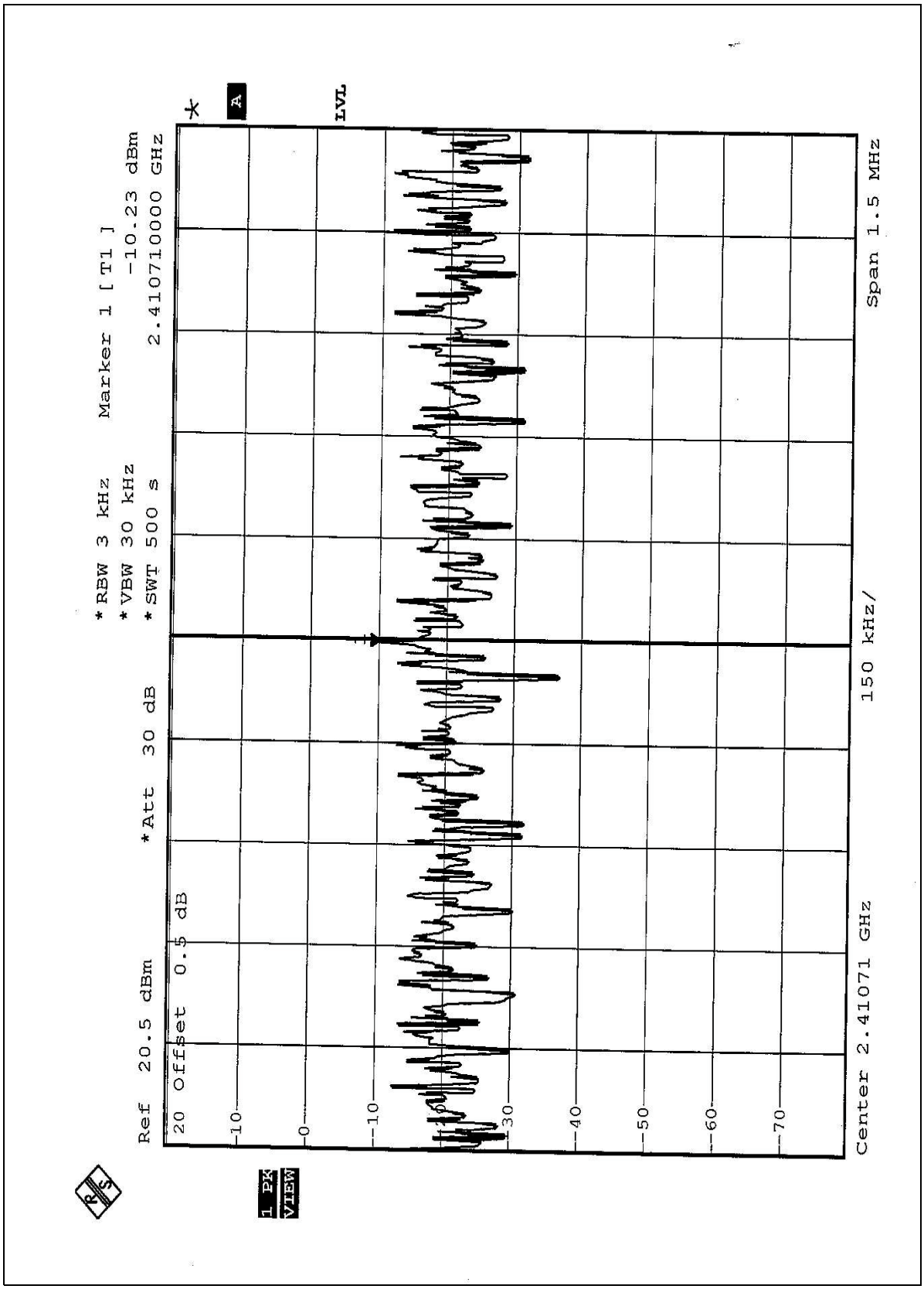
Same as 4.3.6

4.5.7 TEST RESULTS

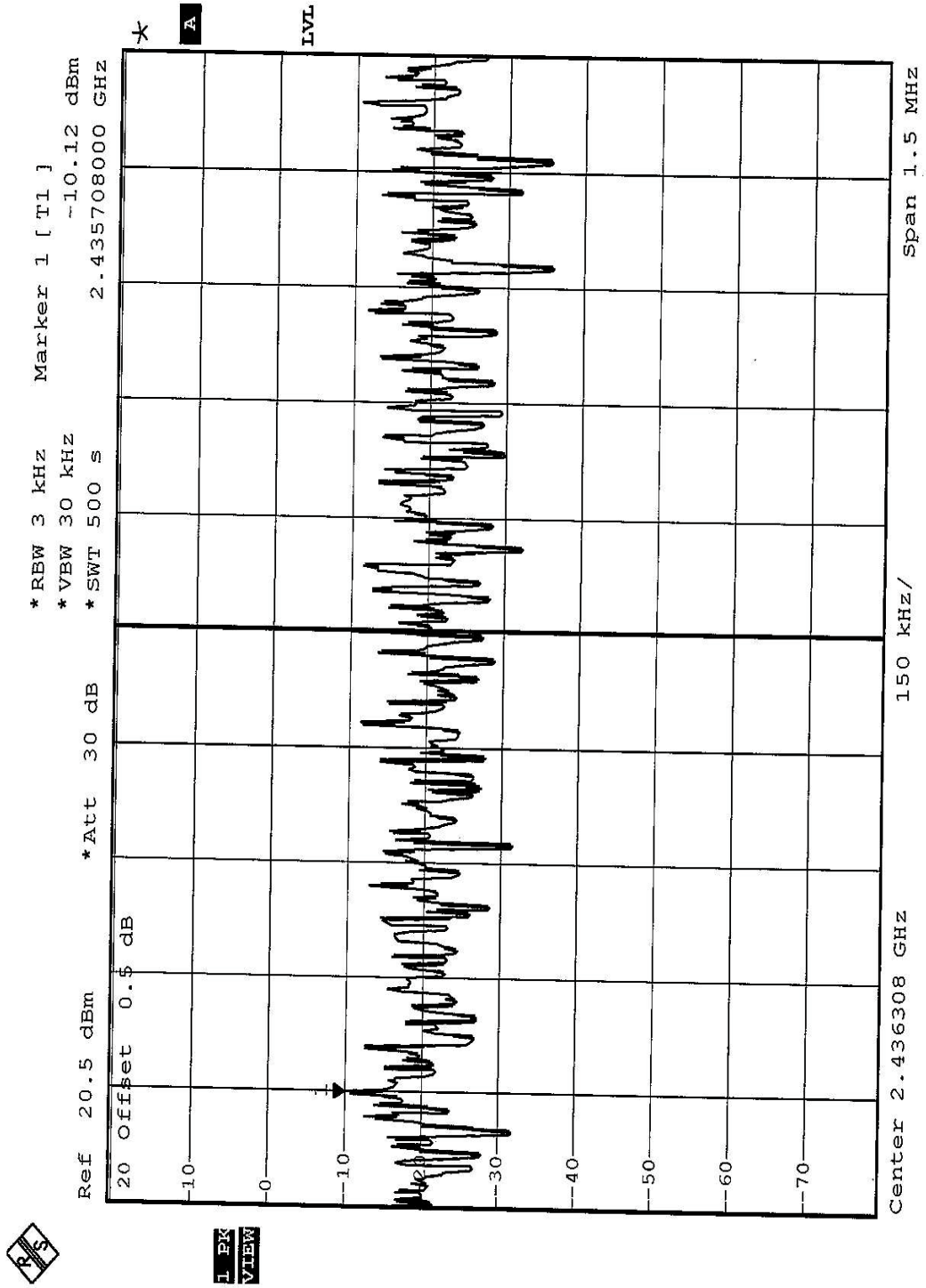
EUT	802.11g Wireless PCI Adapter	**MODEL**	DWL-G510
MODE	CCK	**ENVIRONMENTAL CONDITIONS**	20deg. C, 60%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**TESTED BY**: Jamison Chan	

CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3 kHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	2412	-10.23	8	PASS
6	2437	-10.12	8	PASS
11	2462	-10.28	8	PASS

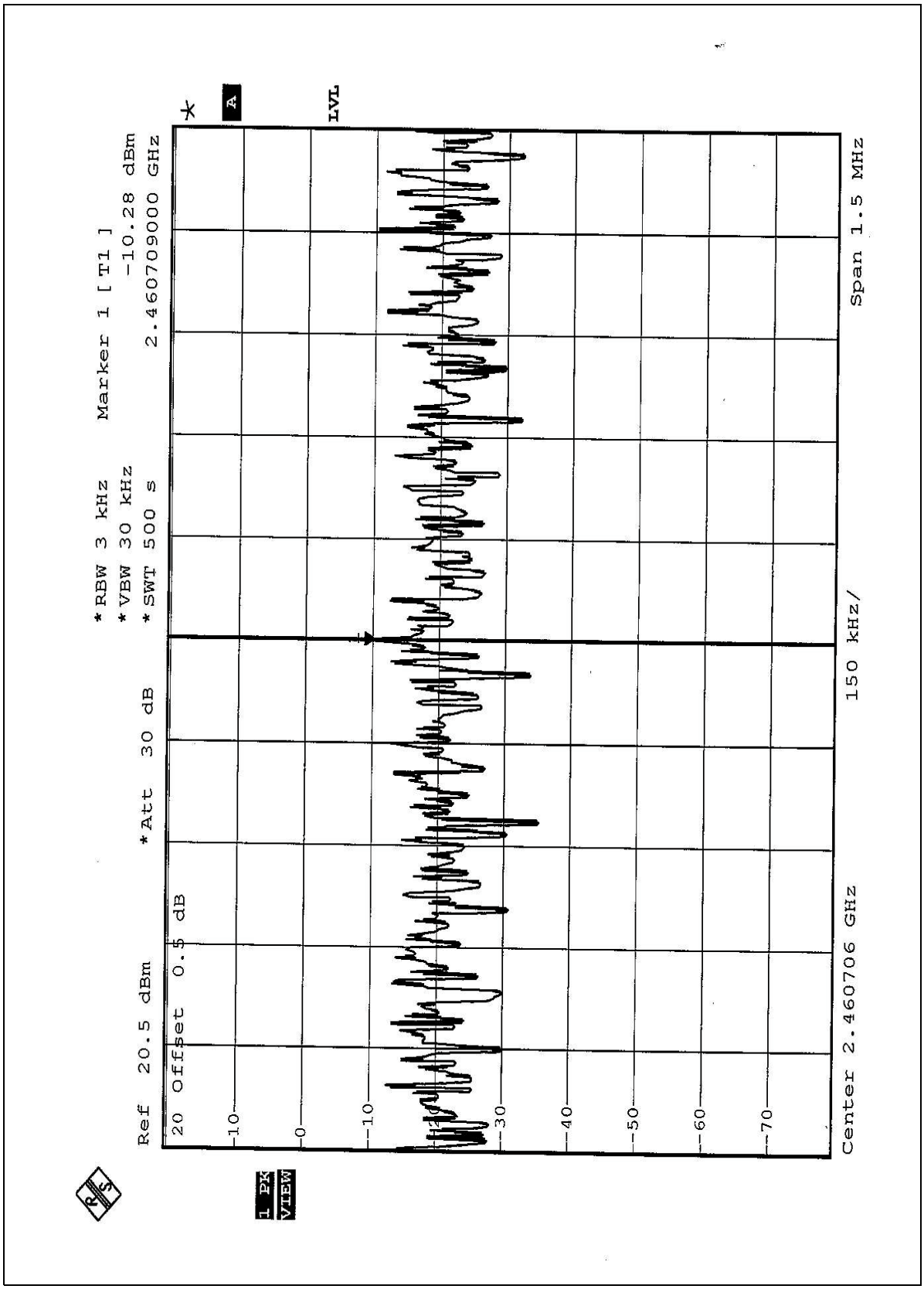
CH1


Ref 20.5 dBm
20 Offset 0.5 dB
*Att 30 dB
*RBW 3 kHz
*VBW 30 kHz
*SWT 500 s
Marker 1 [T1]
-10.23 dBm
2.410710000 GHz
1 PK
VIEW
A
LVL
Center 2.41071 GHz
150 kHz/
Span 1.5 MHz

CH6


Ref 20.5 dBm
20 Offset 0.5 dB
*Att 30 dB
*RBW 3 kHz
*VBW 30 kHz
*SWT 500 s
Marker 1 [T1]
-10.12 dBm
2.435708000 GHz
1 PK
VIEW
A
LVL
Center 2.436308 GHz
150 kHz/
Span 1.5 MHz

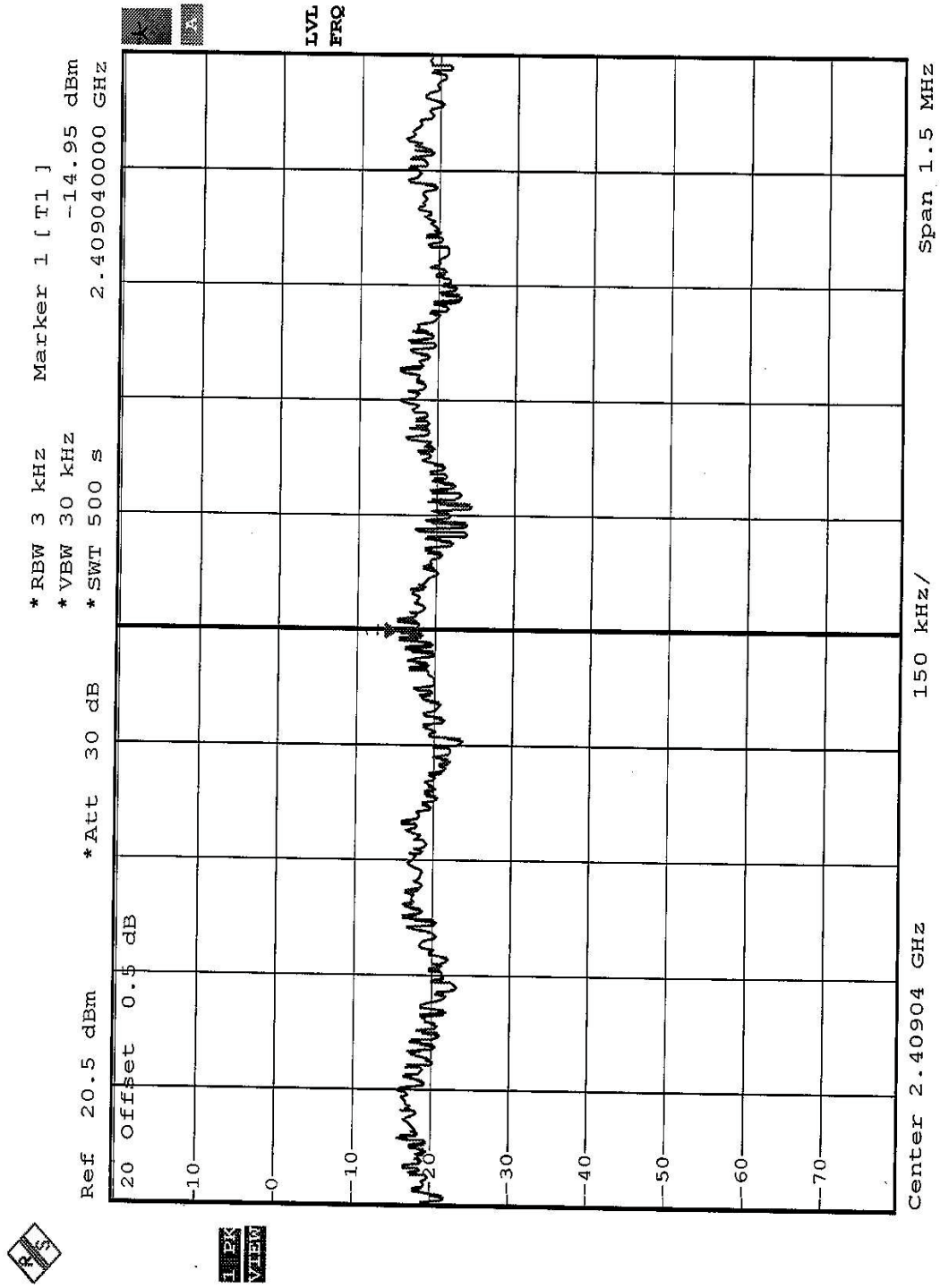
CH11


Ref 20.5 dBm
20 Offset 0.5 dB
*Att 30 dB
*RBW 3 kHz
*VBW 30 kHz
*SWT 500 s
Marker 1 [T1]
-10.28 dBm
2.460709000 GHz
A
LVL
1 PK
VIEW
Center 2.460706 GHz
150 kHz/
Span 1.5 MHz

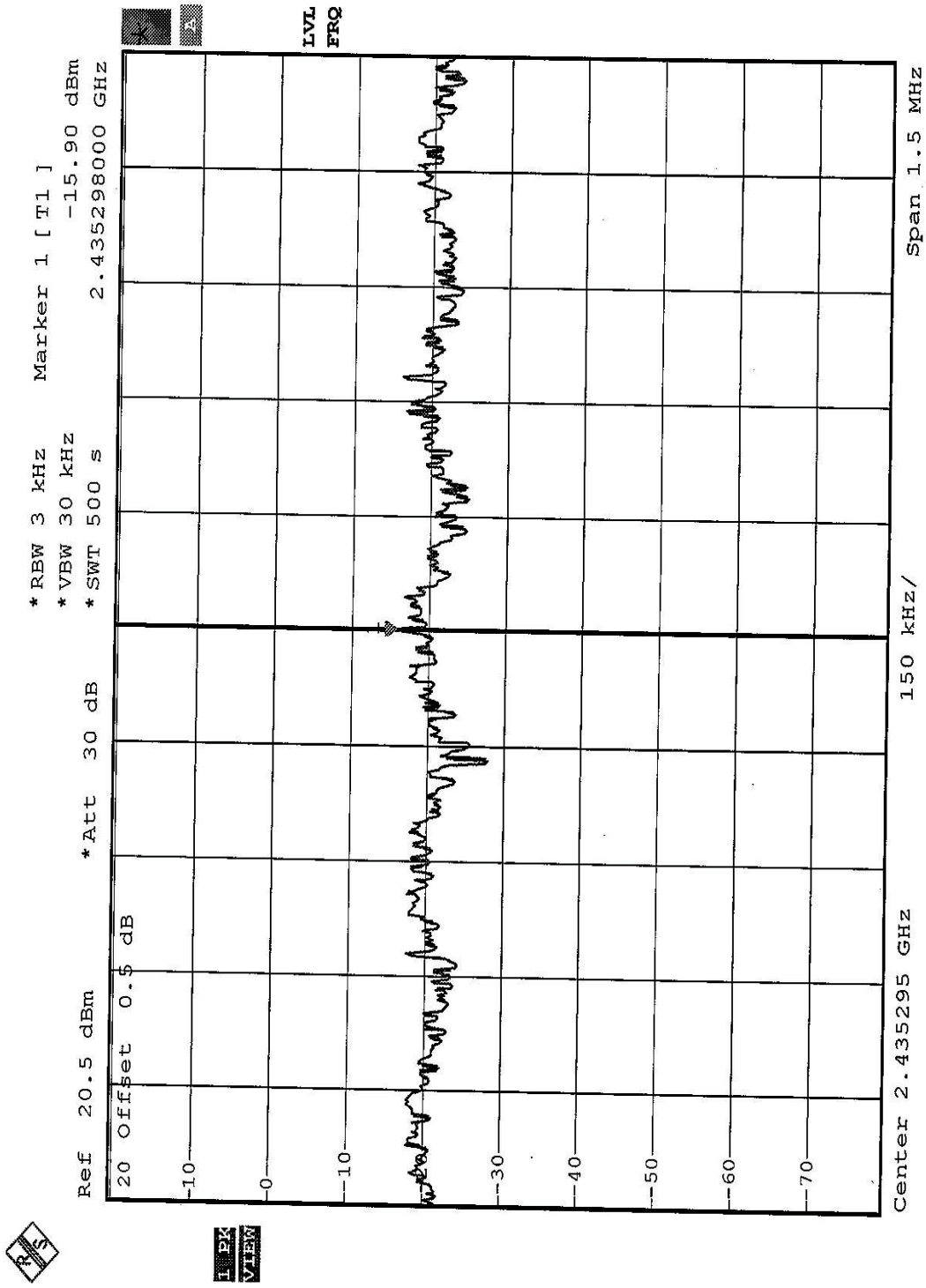
EUT	802.11g Wireless PCI Adapter	**MODEL**	DWL-G510
MODE	OFDM	**ENVIRONMENTAL CONDITIONS**	23deg. C, 64%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**TESTED BY**: Hardaway Lee	

CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3 kHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	2412	-14.95	8	PASS
6	2437	-15.90	8	PASS
11	2462	-15.89	8	PASS

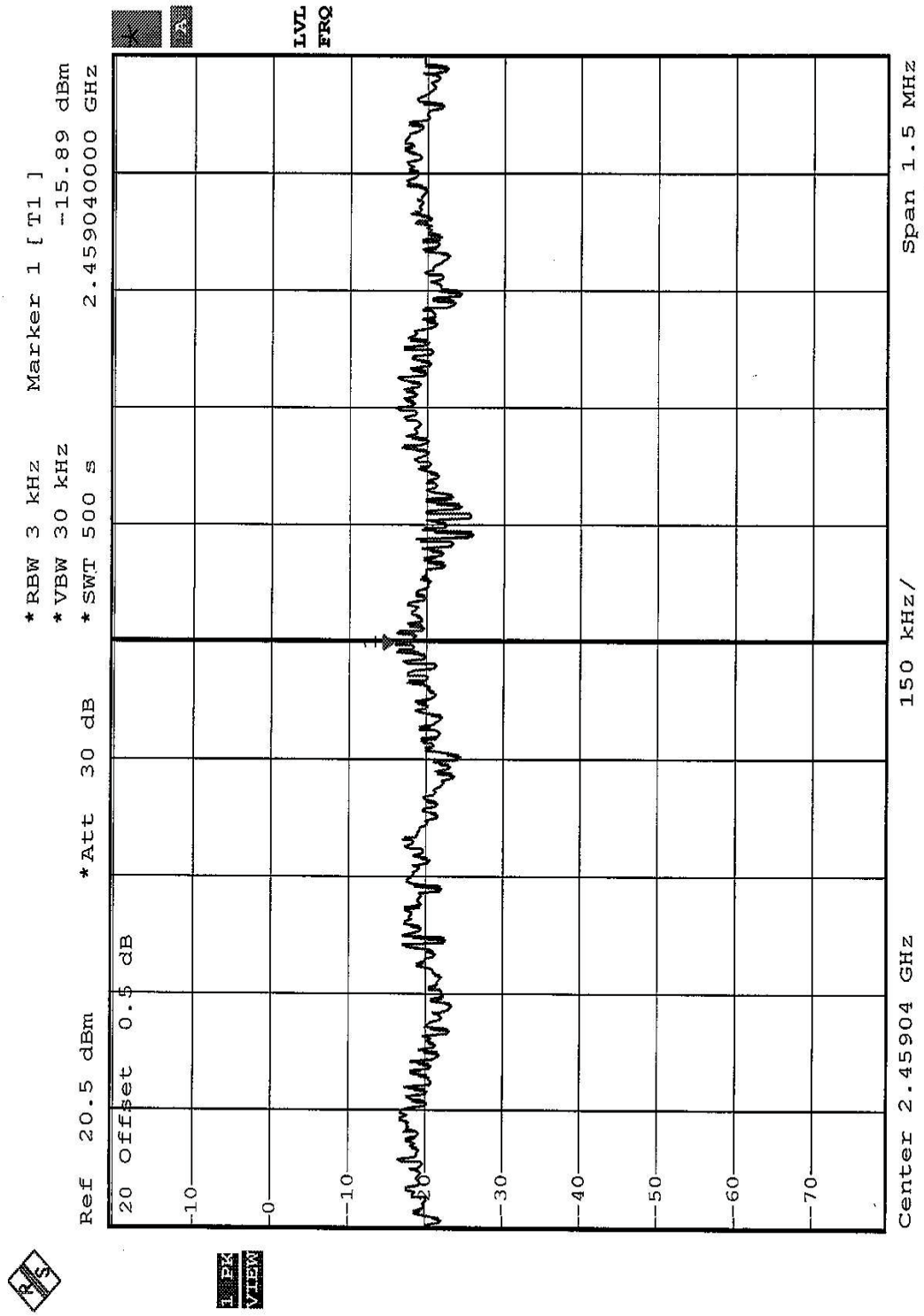
CH1


Ref 20.5 dBm
20 Offset 0.5 dB
*Att 30 dB
*RBW 3 kHz
*VBW 30 kHz
*SWT 500 s
Marker 1 [T1]
-14.95 dBm
2.409040000 GHz
LVL
FRQ
1 PK
MRTA
Center 2.40904 GHz
150 kHz/
Span 1.5 MHz

CH6


Ref 20.5 dBm
20 Offset 0.5 dB
*Att 30 dB
*RBW 3 kHz
*VBW 30 kHz
*SWT 500 s
Marker 1 [T1]
-15.90 dBm
2.435298000 GHz
LVL
FRQ
1 PK
VIEW
Center 2.435295 GHz
150 kHz/
Span 1.5 MHz

CH11


Ref 20.5 dBm
20 Offset 0.5 dB
* Att 30 dB
* RBW 3 kHz
* VBW 30 kHz
* SWT 500 s
Marker 1 [T1]
-15.89 dBm
2.459040000 GHz
1 PK
VIEW
LVL
FRQ
Center 2.45904 GHz
150 kHz/
Span 1.5 MHz

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
SPECTRUM ANALYZER	FSEK30	100049	Aug. 12, 2004

NOTE: 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 1MHz and 300Hz with suitable frequency span including 100MHz bandwidth from band edge. The band edges was measured and recorded.

4.6.4 DEVIATION FROM TEST STANDARD

No deviation

4.6.5 EUT OPERATING CONDITION

Same as Item 4.3.6

4.6.6 TEST RESULTS

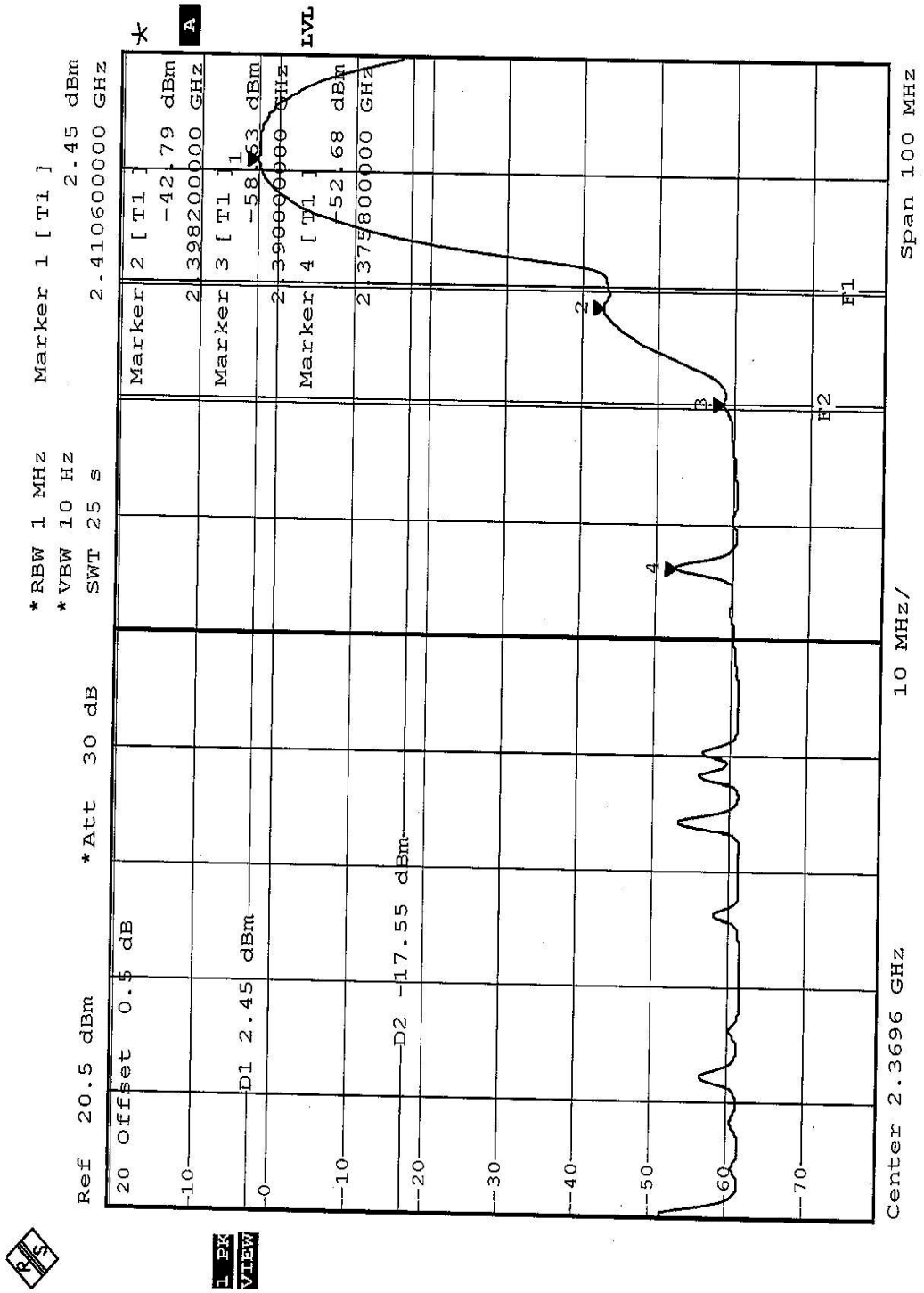
The spectrum plots are attached on the following 8 pages. D2 line indicates the highest level, D1 line indicates the 20dB offset below D2. It shows compliance with the requirement in part 15.247(C).

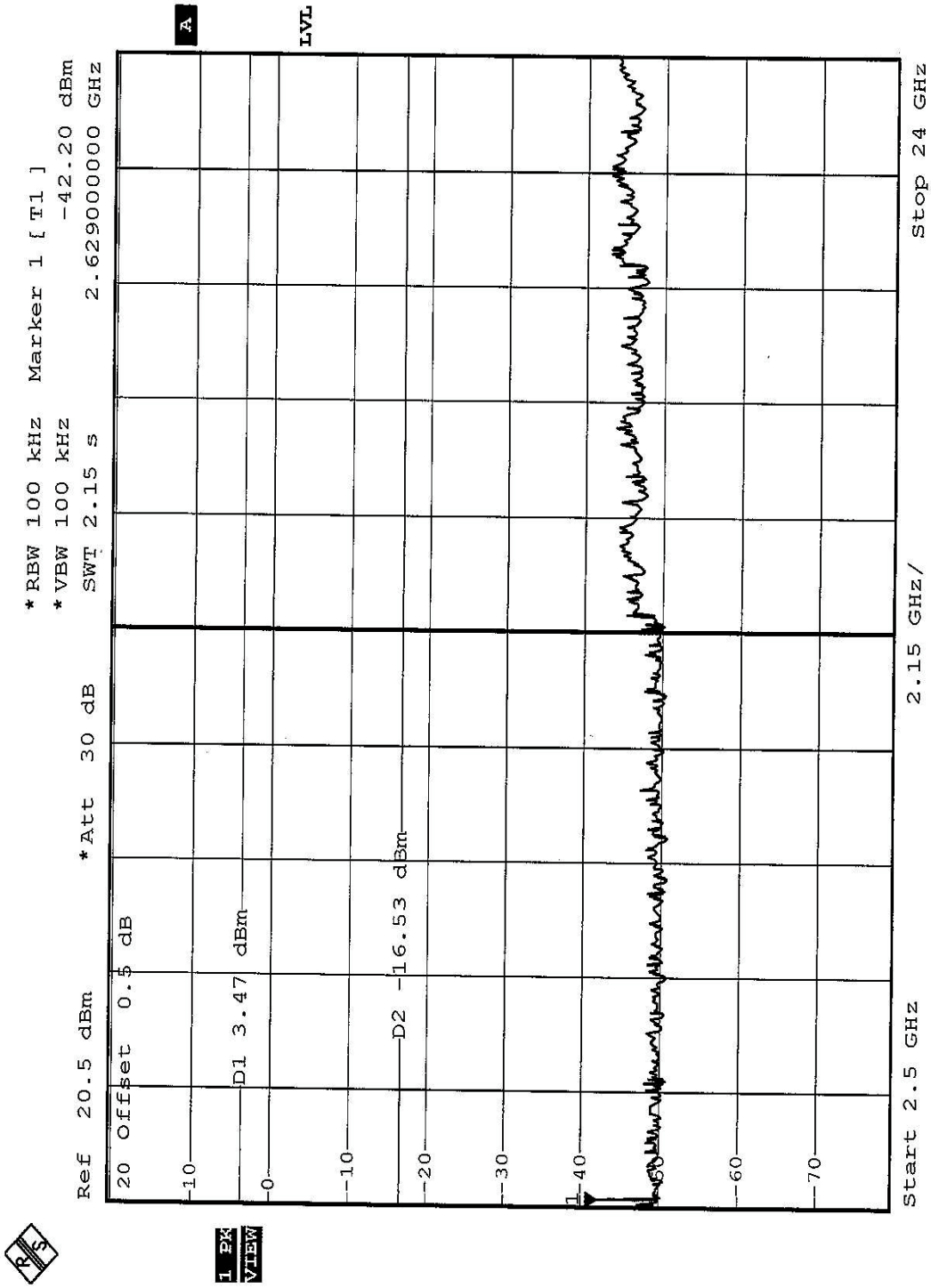
NOTE 1: The band edge emission plot of CCK technique on the following first page shows 55.13dB delta between carrier maximum power and local maximum emission in restrict band (2.3758GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 104.46dBuV/m, so the maximum field strength in restrict band is 104.46–55.13=49.33dBuV/m which is under 54dBuV/m limit.

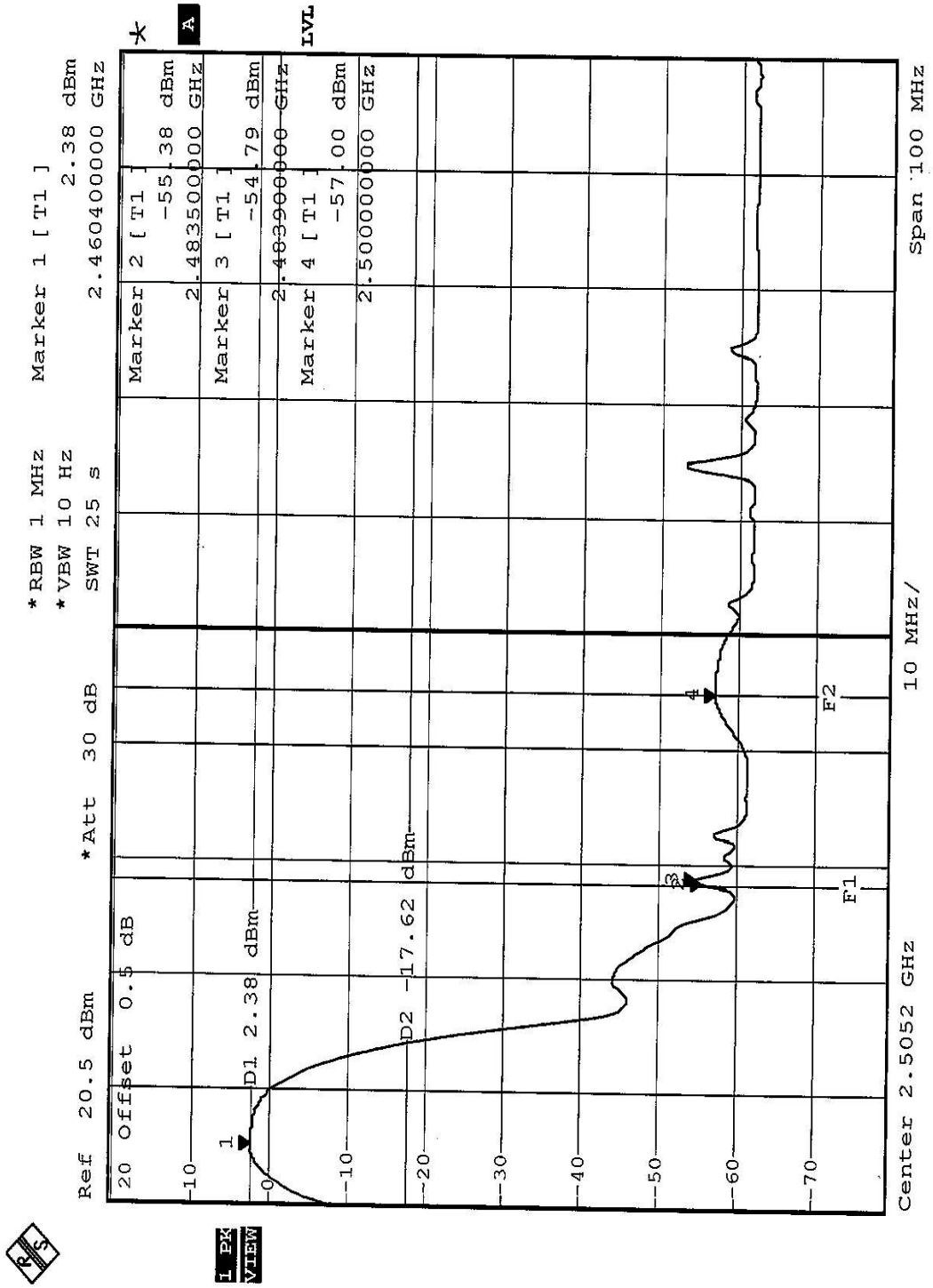
NOTE 2: The band edge emission plot of CCK technique on the following third page shows 57.17dB delta between carrier maximum power and local maximum emission in restrict band (2. 4839GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 104.15dBuV/m, so the maximum field strength in restrict band is 104.15–57.17=46.98dBuV/m which is under 54dBuV/m limit.

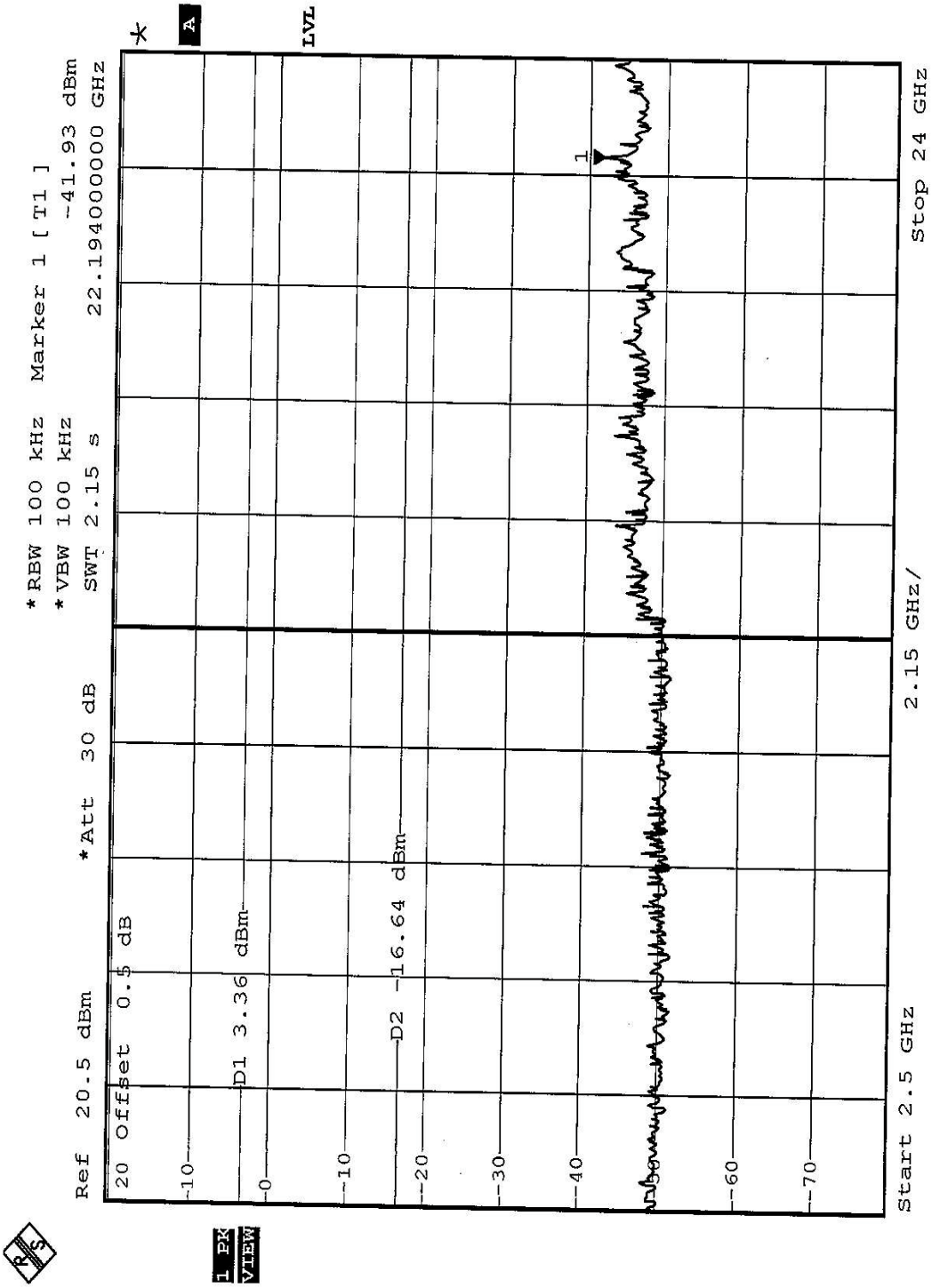
NOTE 3: The band edge emission plot of OFDM technique on the following fifth page shows 49.23dB delta between carrier maximum power and local maximum emission in restrict band (2.3898GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 100.41dBuV/m, so the maximum field strength in restrict band is 100.41–49.23=51.18dBuV/m which is under 54dBuV/m limit.

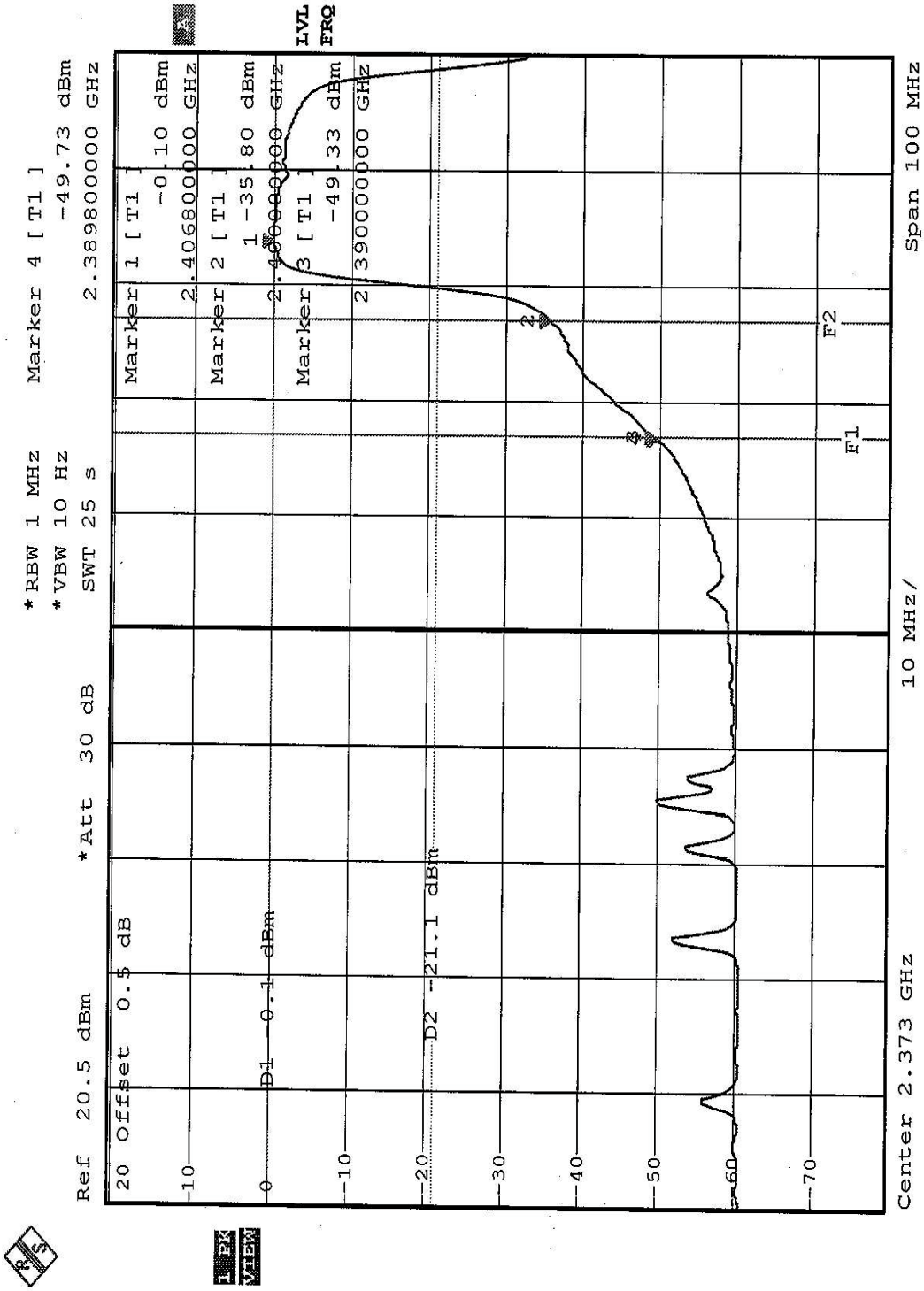
NOTE 4: The band edge emission plot of OFDM technique on the following seventh page shows 48.00dB delta between carrier maximum power and local maximum emission in restrict band (2.4836GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.9 is 99.72dBuV/m, so the maximum field strength in restrict band is 99.72-48.00=51.72dBuV/m which is under 54dBuV/m limit.

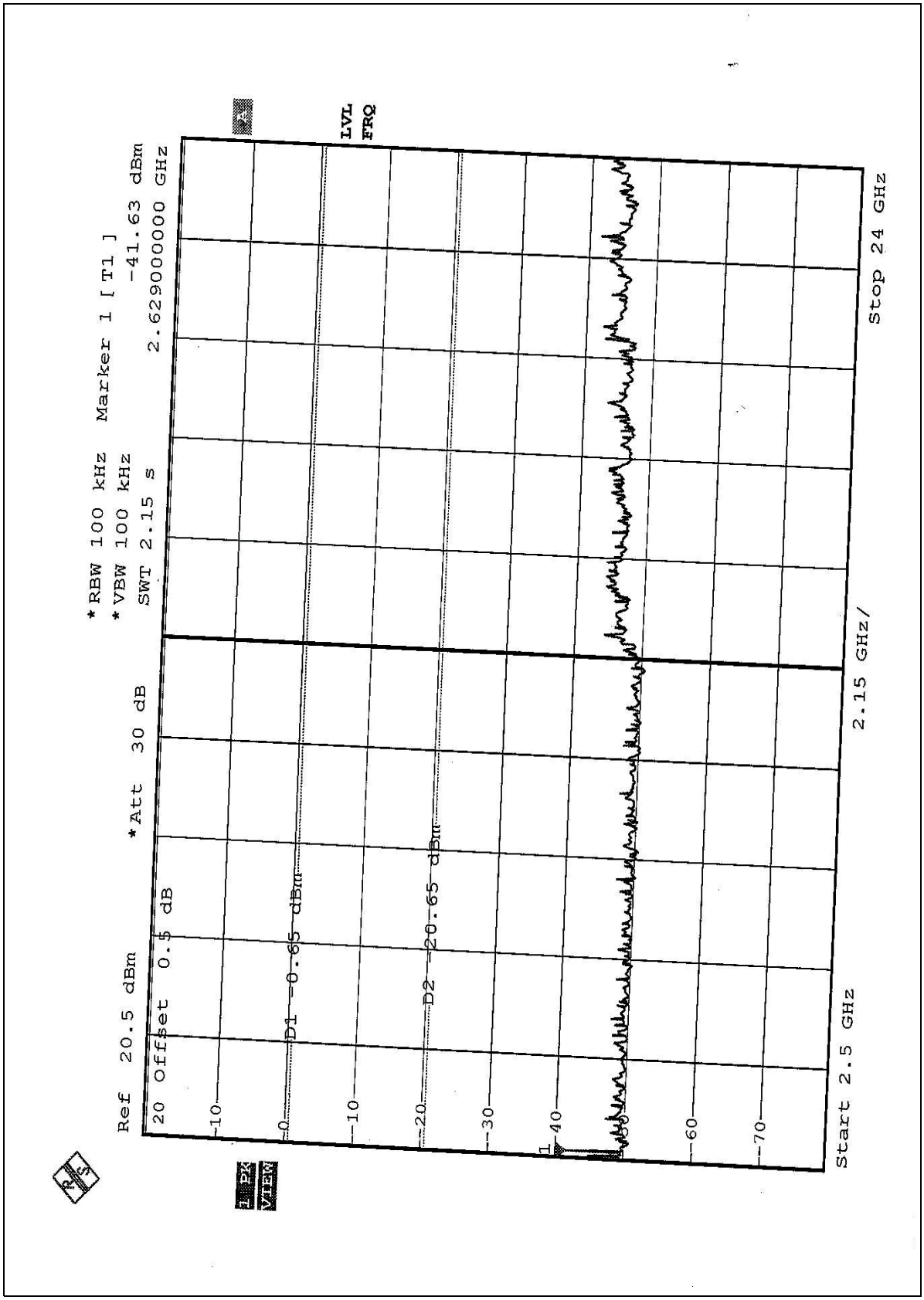

Ref 20.5 dBm
20 Offset 0.5 dB
*Att 30 dB
*RBW 1 MHz
*VBW 10 Hz
SWT 25 s
Marker 1 [T1]
2.45 dBm
2.41060000 GHz
Marker 2 [T1] -42.79 dBm 2.39820000 GHz
Marker 3 [T1] -58.23 dBm 2.39000000 GHz
Marker 4 [T1] -52.68 dBm 2.37580000 GHz
D1 2.45 dBm
D2 -17.55 dBm
LVL
A
1 PK VIEW
F1
F2
Span 100 MHz
10 MHz/
Center 2.3696 GHz

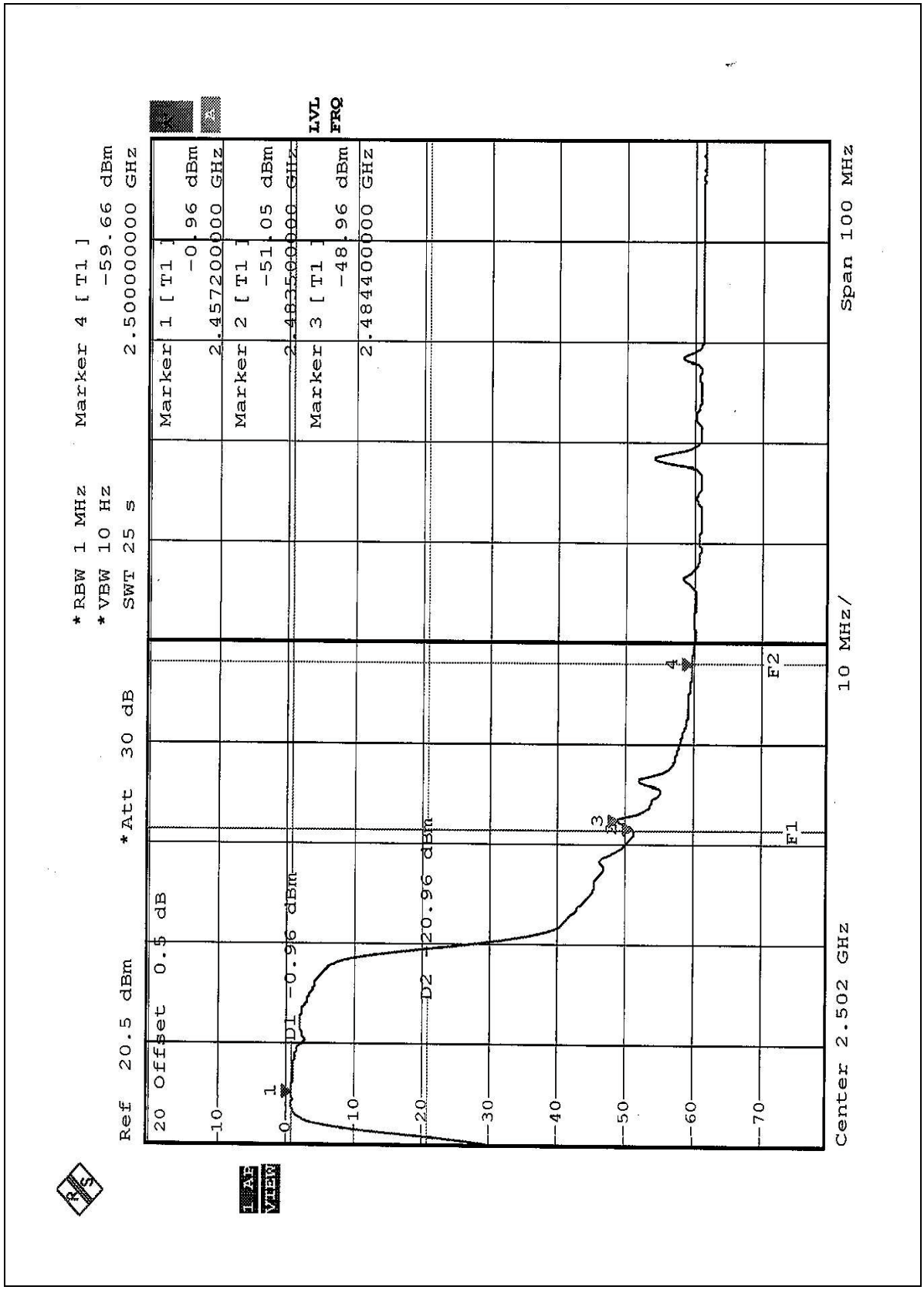

Ref 20.5 dBm
20 Offset 0.5 dB
*Att 30 dB
*RBW 100 kHz
*VBW 100 kHz
SWT 2.15 s
Marker 1 [T1]
-42.20 dBm
2.62900000 GHz
D1 3.47 dBm
D2 -16.53 dBm
LVL
A
1 PK
VBW
Start 2.5 GHz
2.15 GHz/
Stop 24 GHz

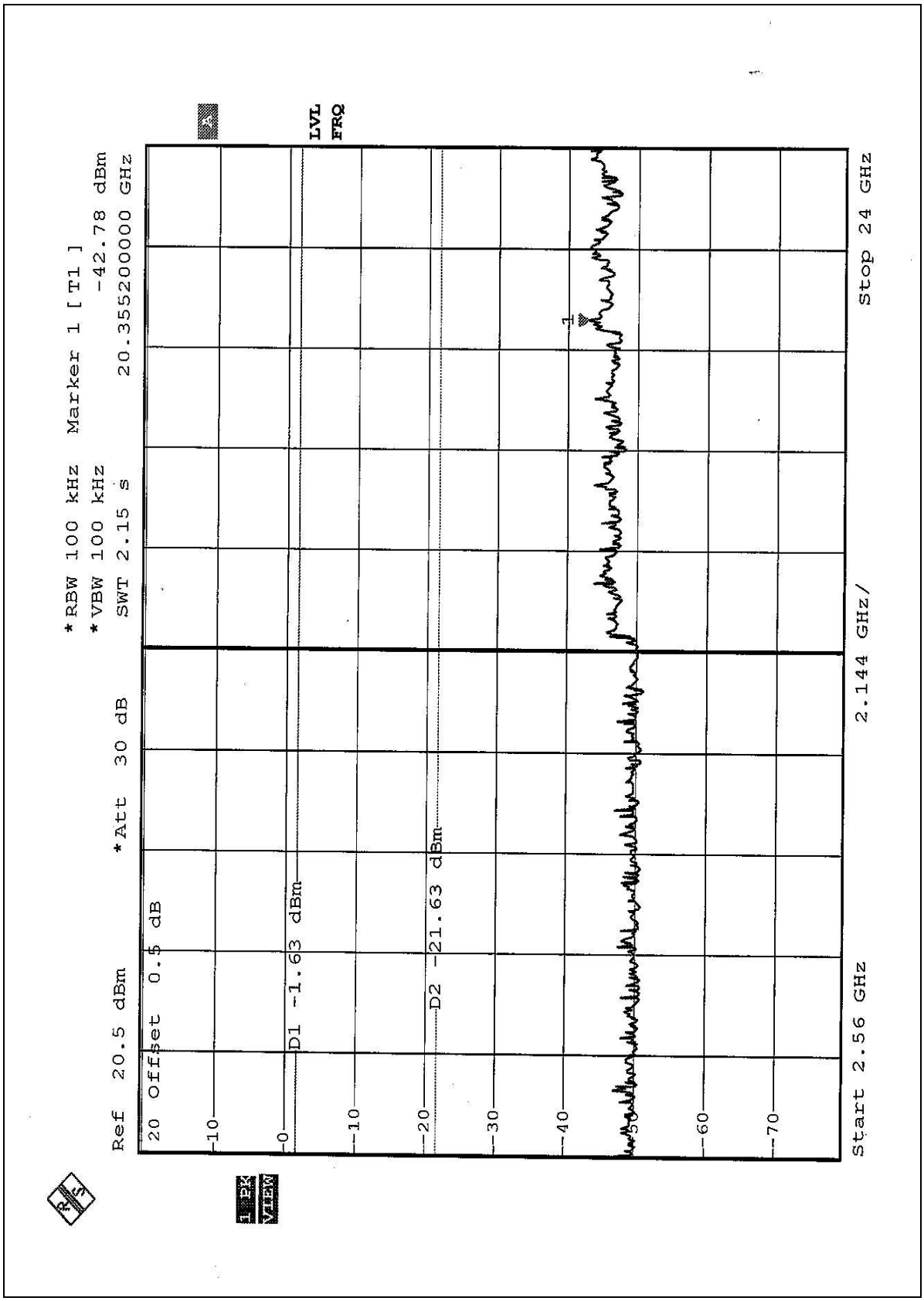

Ref 20.5 dBm
20 Offset 0.5 dB
*Att 30 dB
*RBW 1 MHz
*VBW 10 Hz
SWT 25 s
Marker 1 [T1]
2.460400000 GHz
2.38 dBm
Marker 2 [T1]
2.483500000 GHz
-55.38 dBm
Marker 3 [T1]
2.483900000 GHz
-54.79 dBm
Marker 4 [T1]
2.500000000 GHz
-57.00 dBm
D1 2.38 dBm
D2 -17.62 dBm
F1
F2
Center 2.5052 GHz
10 MHz/
Span 100 MHz
1 PK
VBW


Ref 20.5 dBm
Offset 0.5 dB
*Att 30 dB
*RBW 100 kHz
*VBW 100 kHz
SWT 2.15 s
Marker 1 [T1]
-41.93 dBm
22.19400000 GHz
D1 3.36 dBm
D2 -16.64 dBm
1 PK
VIEW
A
LVL
Start 2.5 GHz
2.15 GHz/
Stop 24 GHz


Ref 20.5 dBm
20 Offset 0.5 dB
*Att 30 dB
*RBW 1 MHz
*VBW 10 Hz
SWT 25 s
Marker 4 [T1]
-49.73 dBm
2.38980000 GHz
Marker 1 [T1]
-0.10 dBm
2.40680000 GHz
Marker 2 [T1]
-35.80 dBm
2.40000000 GHz
Marker 3 [T1]
-49.33 dBm
2.39000000 GHz
LVL
FRQ
D1 -0.1 dBm
D2 -21.1 dBm
F1
F2
Center 2.373 GHz
10 MHz/
Span 100 MHz
PK
VBW


Ref 20.5 dBm
20 Offset 0.5 dB
*Att 30 dB
* RBW 100 kHz
* VBW 100 kHz
SWT 2.15 s
Marker 1 [T1]
-41.63 dBm
2.629000000 GHz
D1 -0.65 dBm
D2 -20.65 dBm
LVL
FRQ
Start 2.5 GHz
2.15 GHz/
Stop 24 GHz


Ref 20.5 dBm
20 Offset 0.5 dB
*Att 30 dB
*RBW 1 MHz
*VBW 10 Hz
SWT 25 s
Marker 4 [T1]
-59.66 dBm
2.50000000 GHz
Marker 1 [T1]
-0.96 dBm
2.45720000 GHz
Marker 2 [T1]
-51.05 dBm
2.48350000 GHz
Marker 3 [T1]
-48.96 dBm
2.48400000 GHz
LVL
FRQ
D1 -0.96 dBm
D2 -20.96 dBm
F1
F2
Center 2.502 GHz
10 MHz/
Span 100 MHz
1 AP
VBW


Ref 20.5 dBm
20 Offset 0.5 dB
*Att 30 dB
*RBW 100 kHz
*VBW 100 kHz
SWT 2.15 s
Marker 1 [T1]
-42.78 dBm
20.355200000 GHz
D1 -1.63 dBm
D2 -21.63 dBm
LVL
FRQ
1 PK
VLBW
Start 2.56 GHz
2.144 GHz/
Stop 24 GHz

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.

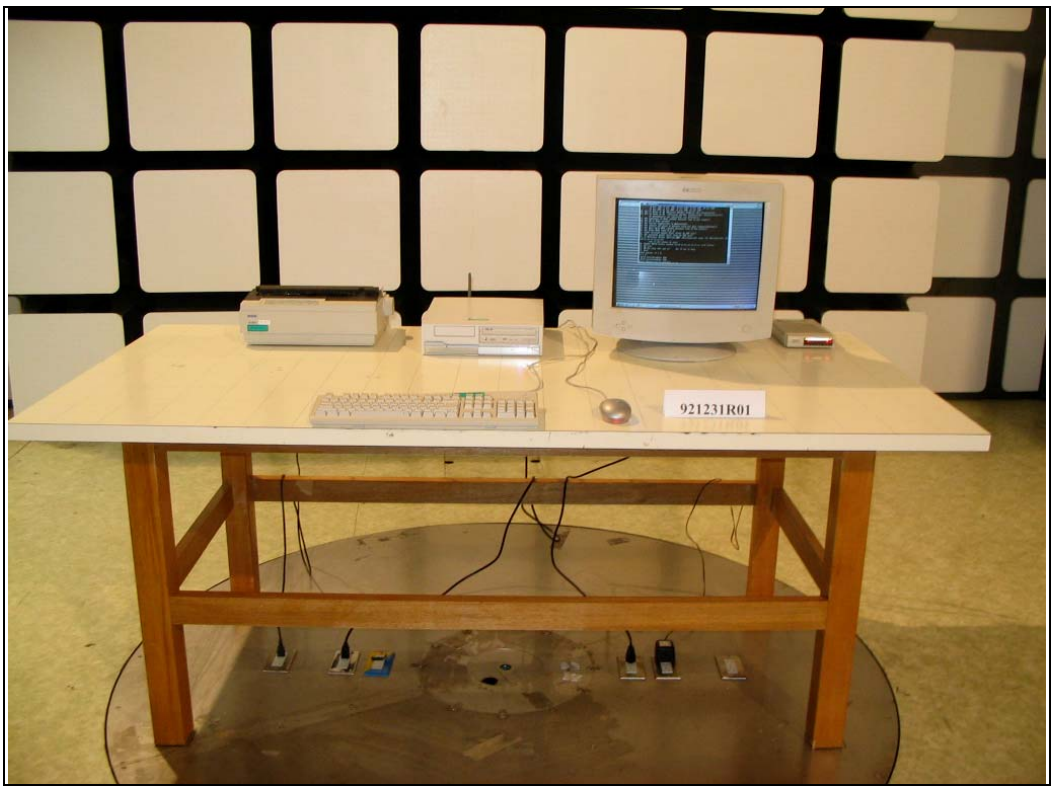
4.7.2 ANTENNA CONNECTED CONSTRUCTION

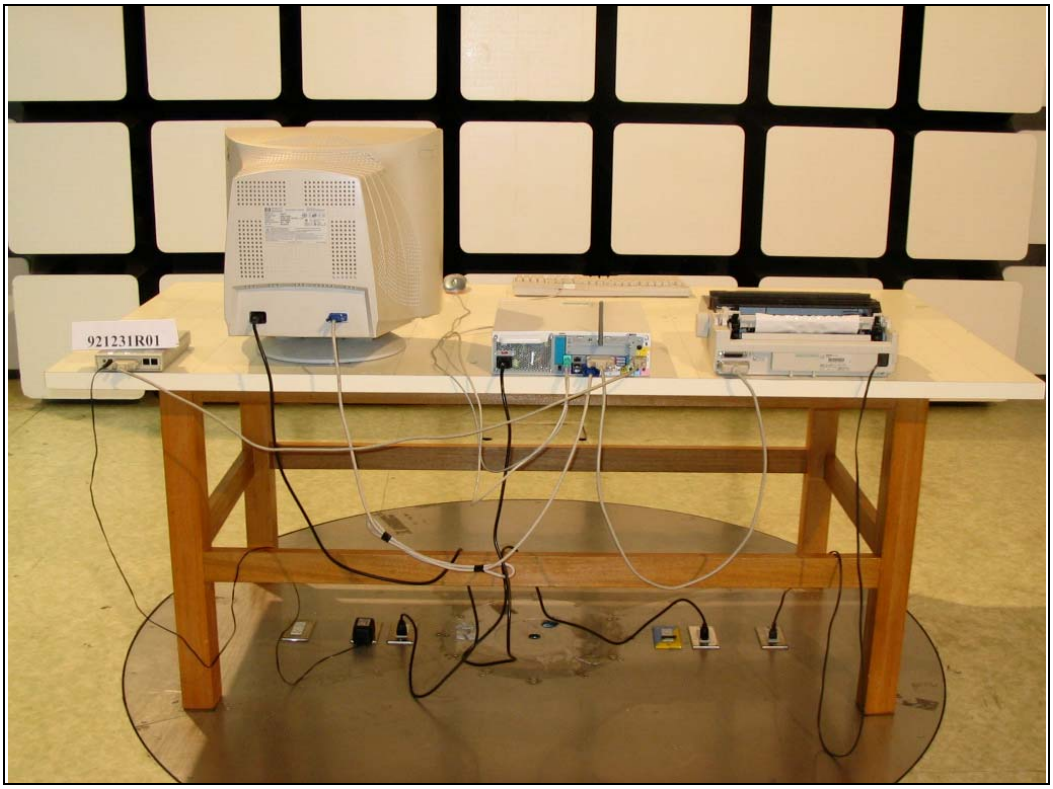
The antenna type used in this product is Dipole antenna with Reverse SMA antenna connector. The maximum Gain of this antenna is 2dBi.

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 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
Germany	TUV Rheinland
Japan	VCCI
New Zealand	MoC
Norway	NEMKO
R.O.C.	BSMI, DGT, CNLA

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:

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Fax: 886-2-26052943

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Tel: 886-35-935343
Fax: 886-35-935342

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Tel: 886-2-26093195
Fax: 886-2-26093184

Lin Kou RF&Telecom 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.