



FCC TEST REPORT

REPORT NO.: RF930904L04

MODEL NO.: F5D7001

RECEIVED: Aug. 12, 2004

TESTED: Aug. 12 ~ Sep. 25, 2004

APPLICANT: Belkin Corporation

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No. 2177-01



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ILAC MRA



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1 CERTIFICATION

PRODUCT : Wireless PCI Adapter
BRAND NAME : BELKIN
MODEL NO. : F5D7001
APPLICANT : Belkin Corporation
TESTED : Aug. 12 ~ Sep. 25, 2004
TEST SAMPLE : Engineering Sample
STANDARDS : FCC Part 15, Subpart C (Section 15.247)
ANSI C63.4-2001

The above equipment 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 : Suntee Liu , **DATE:** Sep. 30, 2004
(Suntee Liu)

TECHNICAL
ACCEPTANCE : Gary Chang , **DATE:** Sep. 30, 2004
Responsible for RF (Gary Chang)

APPROVED BY : Cody Chang , **DATE:** Sep. 30, 2004
(Cody Chang, Deputy 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 -13.97 dB at 0.638 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 -2.05 dB at 4874.00 MHz
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.

2.1 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4:

Measurement	Frequency	Uncertainty
Conducted emissions	9k~30MHz	2.44 dB
Radiated emissions	30MHz ~ 200MHz	3.63 dB
	200MHz ~ 1000MHz	3.65 dB
	1GHz ~ 18GHz	2.20 dB
	18GHz ~ 40GHz	1.88 dB



3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

PRODUCT	Wireless PCI Adapter
MODEL NO.	F5D7001
POWER SUPPLY	3.3Vdc from host equipment
MODULATION TYPE	BPSK, QPSK, CCK, 16QAM, 64QAM
RADIO TECHNOLOGY	DSSS, OFDM
TRANSFER RATE	802.11b: 11/5.5/2/1 Mbps 802.11g: 54/48/36/24/18/12/9/6 Mbps (turbo mode: up to 108 Mbps)
FREQUENCY RANGE	2412MHz ~ 2462MHz
NUMBER OF CHANNEL	11
MAXIMUM OUTPUT POWER	64.565 mW
ANTENNA TYPE	Dipole antenna with 1.8 dBi gain
DATA CABLE	NA
I/O PORTS	NA

NOTE:

1. The EUT operates in the 2.4GHz frequency spectrum with throughput of up to 54Mbps.
2. This EUT is capable of providing data rates of up to 108 Mbps in turbo mode depending upon reception quality.
3. The EUT complies with IEEE 802.11g standards and backwards compatible with IEEE 802.11b products.
4. The above EUT information was declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.



3.2 DESCRIPTION OF TEST MODES

There are 11 channels provided to 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		

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. From our experience and technical viewpoint, we have chosen data rates 11Mbps for CCK technique and 6Mbps for OFDM technique, as the worst cases for the test among other data rates.
4. There are 2 test results presented in the following sections. The test result A is for CCK technique and the test result B is for OFDM technique.
5. There are 2 pre-amplifiers provided to the EUT and presented in the report as below.

PA	Model	Brand
1	SKY65206	Skywork
2	SE2521A	Sige

3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a 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 C63.4-2001

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

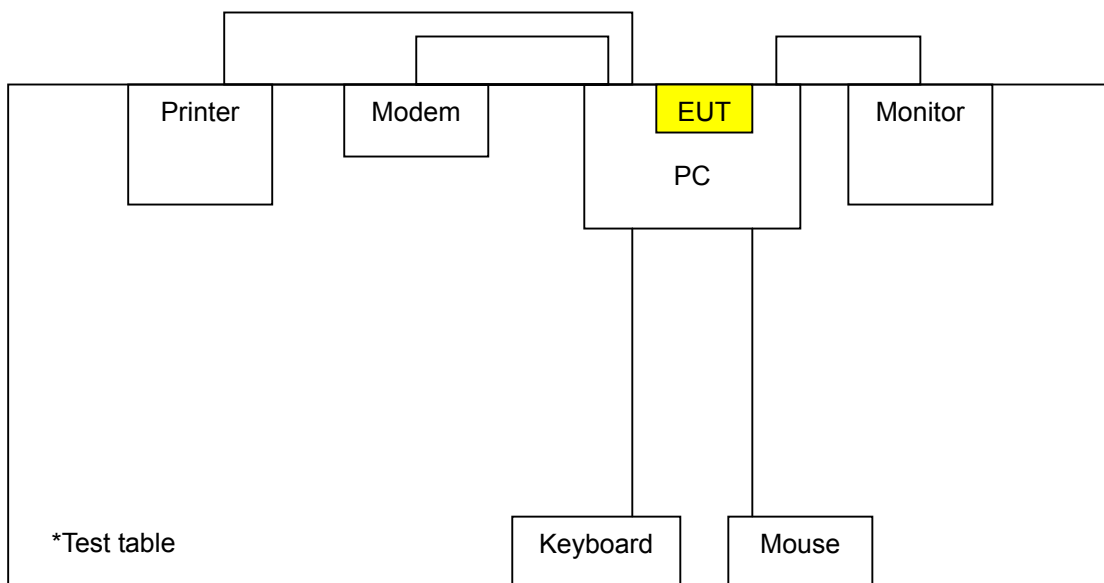
The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	PC	MSI	Hetis 865G Giga	3AS0119572	NA
2	LCD MONITOR	ACER	AL1721	ET.L0408.01040 4001F9PK00	FCC DoC Approved
3	KEYBOARD	HP	SK-1688	C0305049702	GYUR84SK
4	USB MOUSE	Microsoft	ITE78CJ	N/A	FCC DoC Approved
5	PRINTER	EPSON	LQ-300+	DCGY047265	FCC DoC Approved
6	MODEM	ACEEX	1414V/3	0401008248	IFAXDM1414

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	NA
2	1.8 m shielded cable
3	1.3 m shielded cable
4	1.8 m shielded cable
5	1.2 m shielded cable
6	1.2 m shielded cable

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 (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. 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
Test Receiver ROHDE & SCHWARZ	ESCS30	100288	Dec. 11, 2004
RF signal cable Woken	5D-FB	Cable-HyC02-01	Mar. 07, 2005
LISN ROHDE & SCHWARZ	ESH2-Z5	100100	Mar. 10, 2005
LISN ROHDE & SCHWARZ	ESH3-Z5	100311	Mar. 04, 2005
Software ADT	ADT_Cond_V3	NA	NA

- NOTE:**
1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
 2. The test was performed in HwaYa Shielded Room 2.
 3. The VCCI Site Registration No. is C-2047.



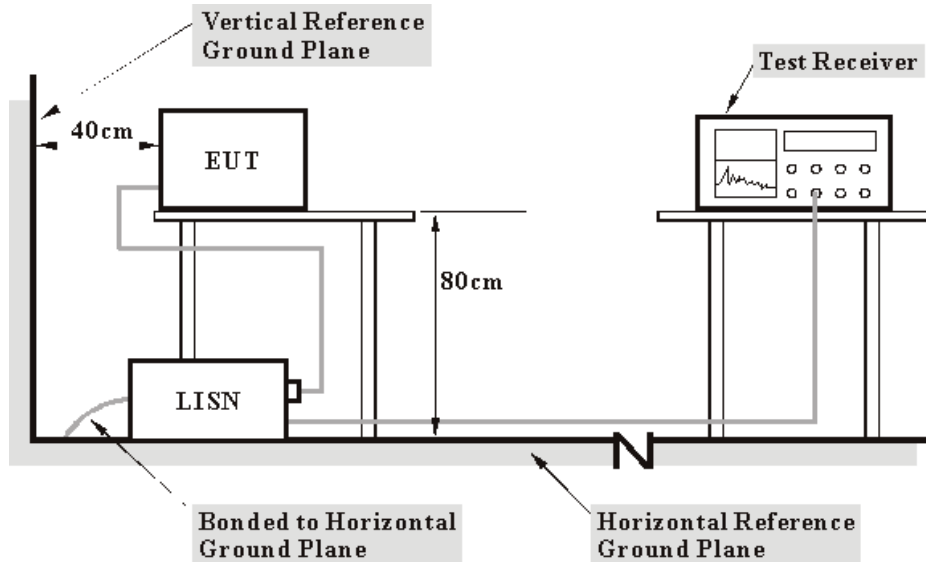
4.1.3 TEST PROCEDURES

- 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 Limit - 20dB was not recorded.

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

- Connected the EUT to the PC placed on a testing table.
- The PC ran a test program (provided by manufacturer) to enable EUT under transmission/receiving condition continuously at specific channel frequency.
- The PC sent "H" messages to the monitor.
- The PC sent "H" messages to the modem.
- The PC sent "H" messages to the printer and the printer printed them on paper.
- Steps c ~ e were repeated.

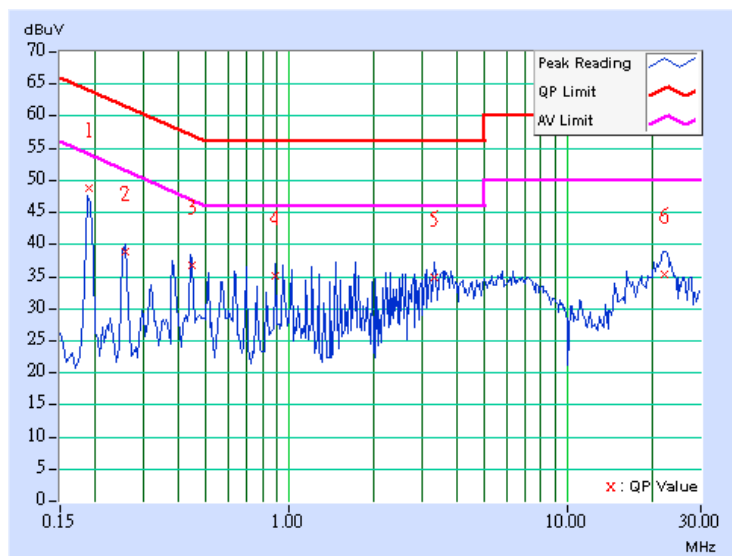


4.1.7 TEST RESULTS

EUT	Wireless PCI Adapter	MODEL	F5D7001
CHANNEL	1	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	25 deg. C, 65% RH, 991 hPa	PA	1
TESTED BY	Steven Lu		

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	0.190	0.10	47.82	-	47.92	-	64.02
2	0.256	0.10	37.85	-	37.95	-	61.57	51.57	-23.62	-
3	0.447	0.12	35.64	-	35.76	-	56.93	46.93	-21.17	-
4	0.892	0.22	34.13	-	34.35	-	56.00	46.00	-21.65	-
5	3.312	0.29	33.90	-	34.19	-	56.00	46.00	-21.81	-
6	22.166	1.02	34.34	-	35.36	-	60.00	50.00	-24.64	-

- 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.

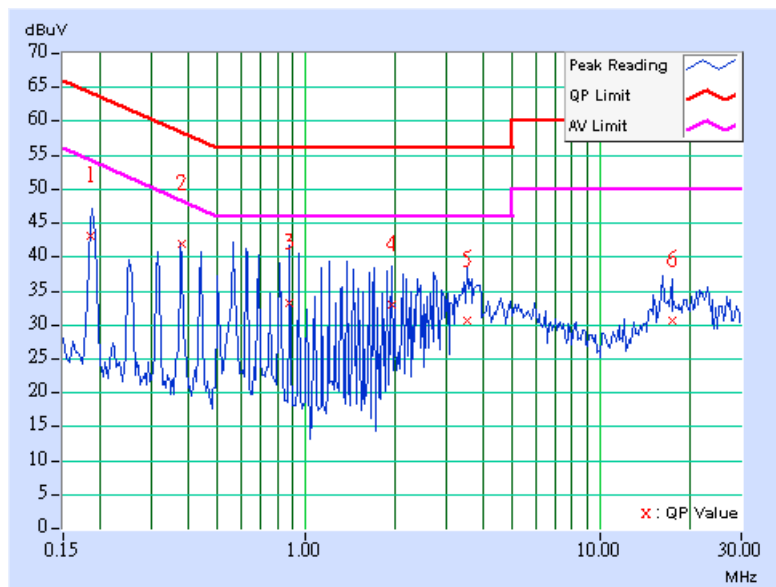




EUT	Wireless PCI Adapter	MODEL	F5D7001
CHANNEL	1	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	25 deg. C, 65% RH, 991 hPa	PA	1
TESTED BY	Steven Lu		

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	0.10	42.47	-	42.57	-	64.25
2	0.379	0.11	41.25	-	41.36	-	58.31	48.31	-16.95	-
3	0.882	0.21	32.74	-	32.95	-	56.00	46.00	-23.05	-
4	1.960	0.25	32.47	-	32.72	-	56.00	46.00	-23.28	-
5	3.527	0.29	30.12	-	30.41	-	56.00	46.00	-25.59	-
6	17.410	0.60	30.06	-	30.66	-	60.00	50.00	-29.34	-

- 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.

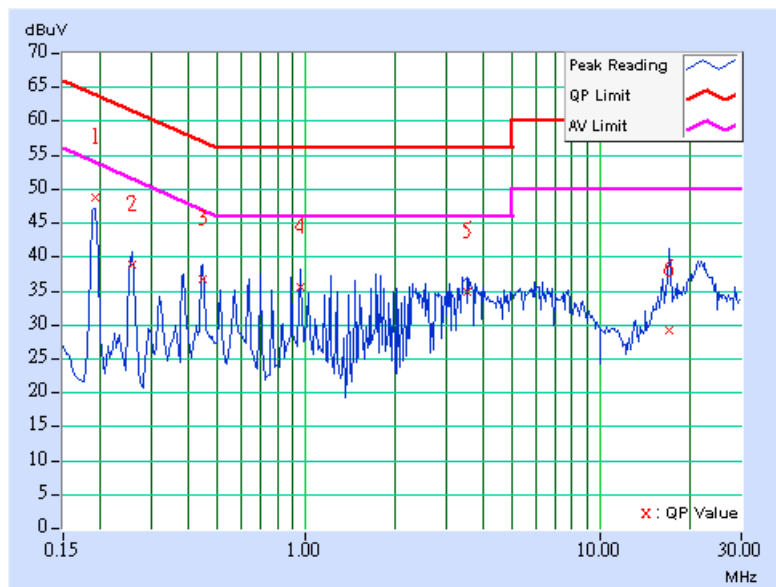




EUT	Wireless PCI Adapter	MODEL	F5D7001
CHANNEL	6	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	25 deg. C, 65% RH, 991 hPa	PA	1
TESTED BY	Steven Lu		

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	0.192	0.10	48.00	-	48.10	-	63.97
2	0.255	0.10	38.10	-	38.20	-	61.58	51.58	-23.37	-
3	0.447	0.12	35.99	-	36.11	-	56.93	46.93	-20.82	-
4	0.956	0.24	34.88	-	35.12	-	56.00	46.00	-20.88	-
5	3.510	0.30	34.01	-	34.31	-	56.00	46.00	-21.69	-
6	16.992	0.79	28.40	-	29.19	-	60.00	50.00	-30.81	-

- 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.

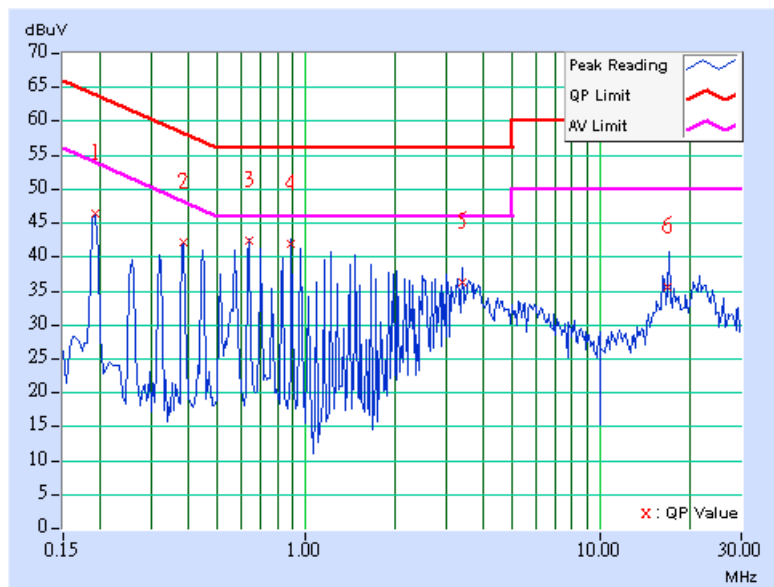




EUT	Wireless PCI Adapter	MODEL	F5D7001
CHANNEL	6	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	25 deg. C, 65% RH, 991 hPa	PA	1
TESTED BY	Steven Lu		

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	0.193	0.10	45.91	-	46.01	-	63.91
2	0.384	0.11	41.64	-	41.75	-	58.18	48.18	-16.43	-
3	0.638	0.16	41.87	-	42.03	-	56.00	46.00	-13.97	-
4	0.892	0.21	41.47	-	41.68	-	56.00	46.00	-14.32	-
5	3.383	0.29	35.62	-	35.91	-	56.00	46.00	-20.09	-
6	16.967	0.60	34.99	-	35.59	-	60.00	50.00	-24.41	-

- 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.

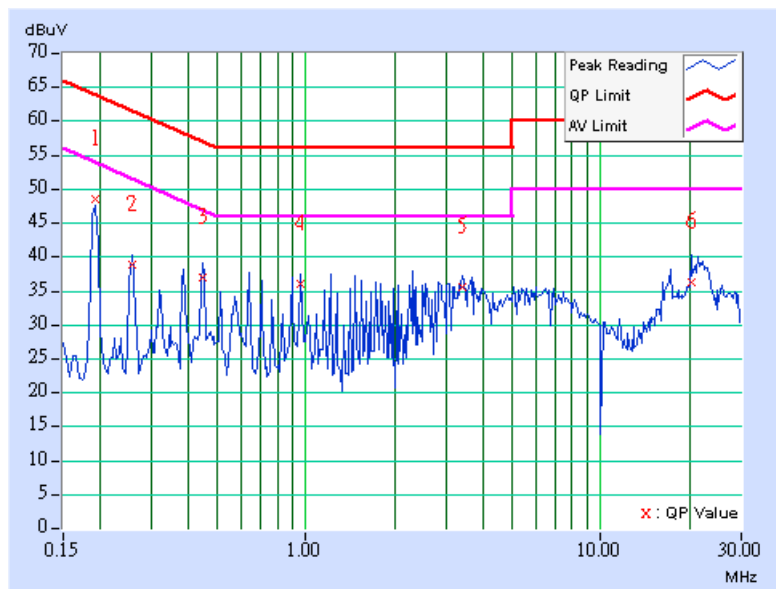




EUT	Wireless PCI Adapter	MODEL	F5D7001
CHANNEL	11	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	25 deg. C, 65% RH, 991 hPa	PA	1
TESTED BY	Steven Lu		

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	0.193	0.10	47.62	-	47.72	-	63.91
2	0.257	0.10	37.89	-	37.99	-	61.54	51.54	-23.55	-
3	0.447	0.12	36.11	-	36.23	-	56.93	46.93	-20.70	-
4	0.959	0.24	35.10	-	35.34	-	56.00	46.00	-20.66	-
5	3.388	0.30	34.58	-	34.88	-	56.00	46.00	-21.12	-
6	20.262	0.93	35.26	-	36.19	-	60.00	50.00	-23.81	-

- 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.

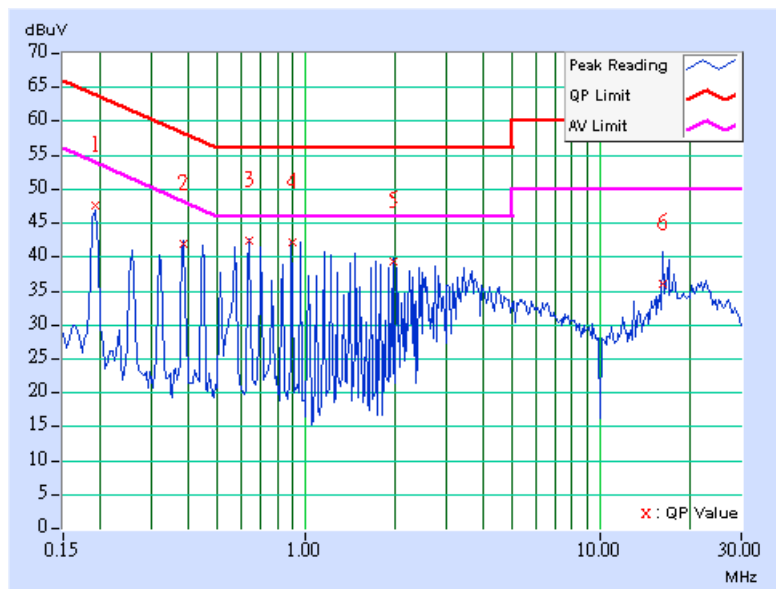




EUT	Wireless PCI Adapter	MODEL	F5D7001
CHANNEL	11	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	25 deg. C, 65% RH, 991 hPa	PA	1
TESTED BY	Steven Lu		

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	0.192	0.10	47.10	-	47.20	-	63.97
2	0.384	0.11	41.37	-	41.48	-	58.18	48.18	-16.70	-
3	0.638	0.16	41.84	-	42.00	-	56.00	46.00	-14.00	-
4	0.895	0.22	41.56	-	41.78	-	56.00	46.00	-14.22	-
5	1.980	0.25	38.78	-	39.03	-	56.00	46.00	-16.97	-
6	16.231	0.58	35.43	-	36.01	-	60.00	50.00	-23.99	-

- 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.

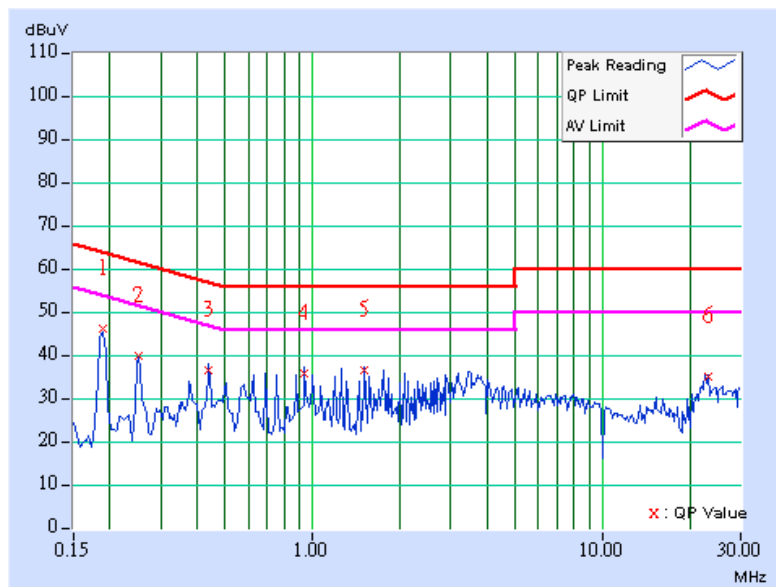




EUT	Wireless PCI Adapter	MODEL	F5D7001
CHANNEL	1	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	25 deg. C, 65% RH, 991 hPa	PA	2
TESTED BY	Steven Lu		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.189	0.10	45.31	-	45.41	-	64.08	54.08	-18.67	-
2	0.252	0.10	38.79	-	38.89	-	61.71	51.71	-22.81	-
3	0.439	0.12	35.64	-	35.76	-	57.08	47.08	-21.32	-
4	0.939	0.24	34.84	-	35.08	-	56.00	46.00	-20.92	-
5	1.504	0.26	35.66	-	35.92	-	56.00	46.00	-20.08	-
6	23.129	1.07	33.99	-	35.06	-	60.00	50.00	-24.94	-

- 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.

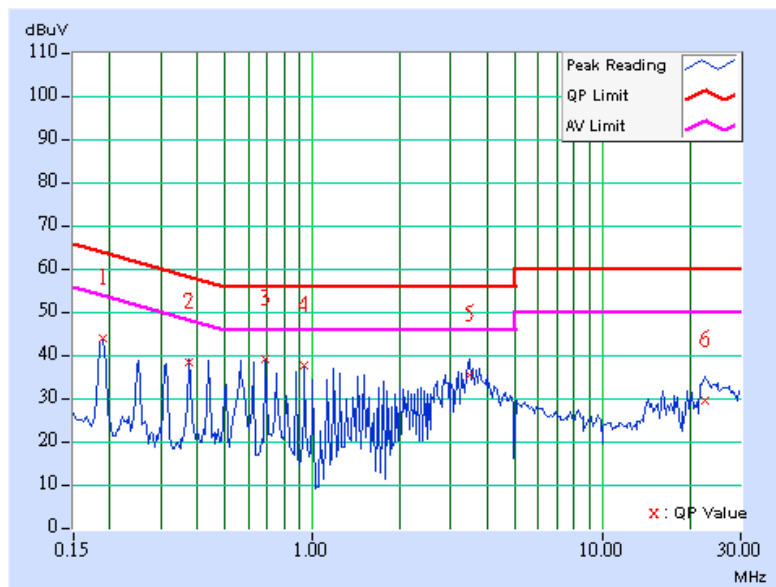




EUT	Wireless PCI Adapter	MODEL	F5D7001
CHANNEL	1	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	25 deg. C, 65% RH, 991 hPa	PA	2
TESTED BY	Steven Lu		

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	0.189	0.10	43.26	-	43.36	-	64.08
2	0.377	0.11	38.00	-	38.11	-	58.35	48.35	-20.24	-
3	0.689	0.17	38.52	-	38.69	-	56.00	46.00	-17.31	-
4	0.939	0.23	37.10	-	37.33	-	56.00	46.00	-18.67	-
5	3.504	0.29	34.73	-	35.02	-	56.00	46.00	-20.98	-
6	22.520	0.68	28.94	-	29.62	-	60.00	50.00	-30.38	-

- 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.

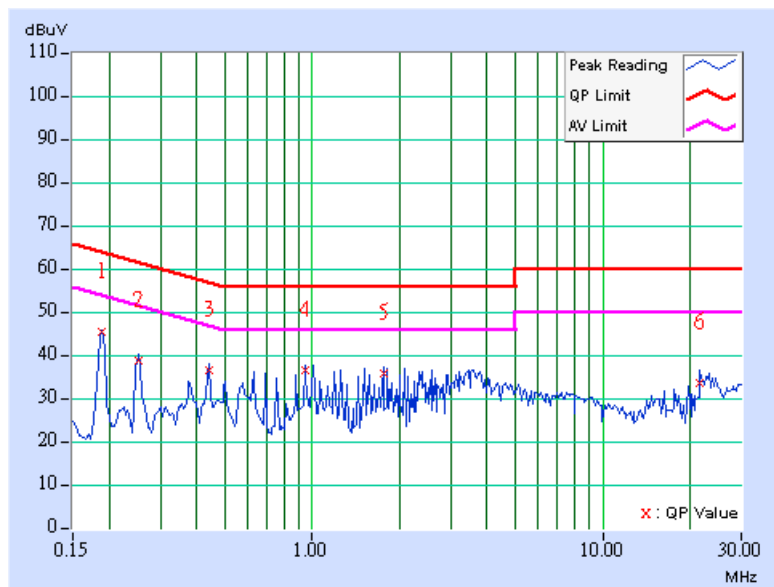




EUT	Wireless PCI Adapter	MODEL	F5D7001
CHANNEL	6	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	25 deg. C, 65% RH, 991 hPa	PA	2
TESTED BY	Steven Lu		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.189	0.10	44.63	-	44.73	-	64.08	54.08	-19.35	-
2	0.252	0.10	38.03	-	38.13	-	61.71	51.71	-23.57	-
3	0.439	0.12	35.78	-	35.90	-	57.08	47.08	-21.18	-
4	0.943	0.24	35.56	-	35.80	-	56.00	46.00	-20.20	-
5	1.760	0.26	34.86	-	35.12	-	56.00	46.00	-20.88	-
6	21.664	1.00	32.61	-	33.61	-	60.00	50.00	-26.39	-

- 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.

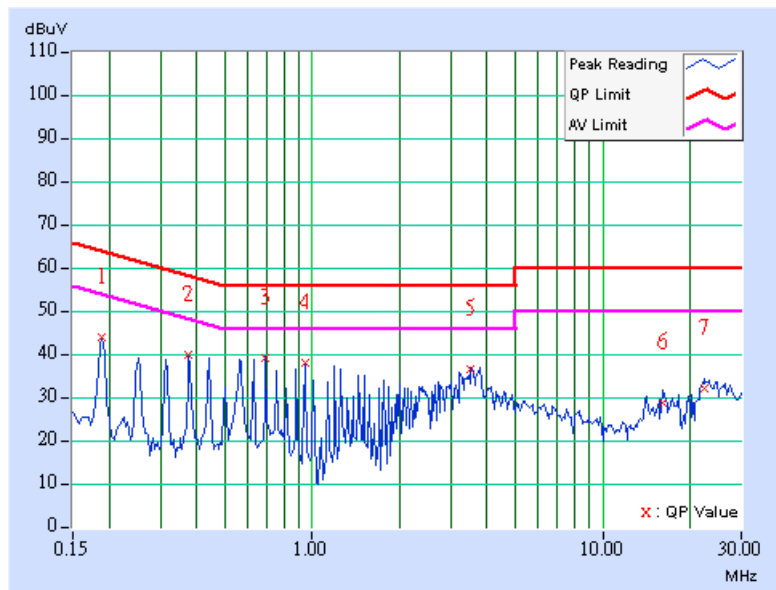




EUT	Wireless PCI Adapter	MODEL	F5D7001
CHANNEL	6	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	25 deg. C, 65% RH, 991 hPa	PA	2
TESTED BY	Steven Lu		

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	0.189	0.10	43.40	-	43.50	-	64.08
2	0.377	0.11	39.19	-	39.30	-	58.35	48.35	-19.05	-
3	0.693	0.17	38.76	-	38.93	-	56.00	46.00	-17.07	-
4	0.943	0.23	37.33	-	37.56	-	56.00	46.00	-18.44	-
5	3.523	0.29	35.82	-	36.11	-	56.00	46.00	-19.89	-
6	16.164	0.58	28.07	-	28.65	-	60.00	50.00	-31.35	-
7	22.401	0.67	31.61	-	32.28	-	60.00	50.00	-27.72	-

- 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.

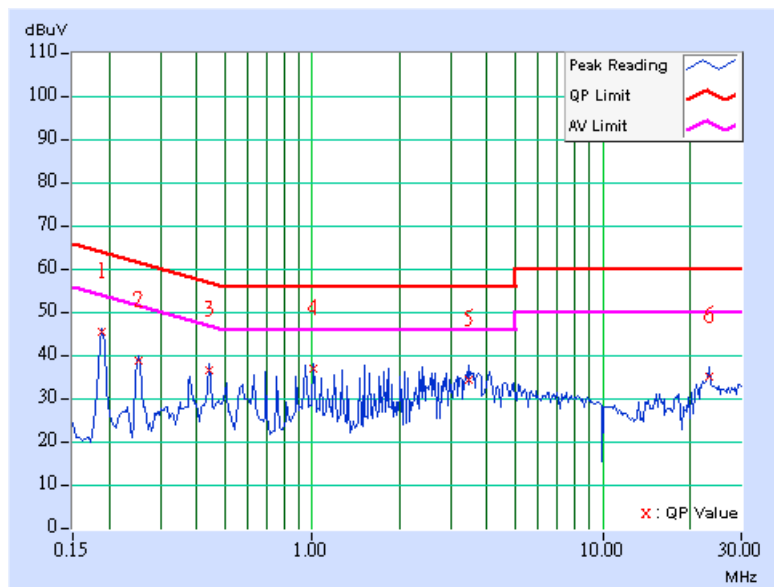




EUT	Wireless PCI Adapter	MODEL	F5D7001
CHANNEL	11	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	25 deg. C, 65% RH, 991 hPa	PA	2
TESTED BY	Steven Lu		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.189	0.10	44.65	-	44.75	-	64.08	54.08	-19.33	-
2	0.252	0.10	37.97	-	38.07	-	61.71	51.71	-23.63	-
3	0.443	0.12	35.64	-	35.76	-	57.01	47.01	-21.24	-
4	1.008	0.25	35.86	-	36.11	-	56.00	46.00	-19.89	-
5	3.465	0.30	33.48	-	33.78	-	56.00	46.00	-22.22	-
6	23.129	1.07	34.01	-	35.08	-	60.00	50.00	-24.92	-

- 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.

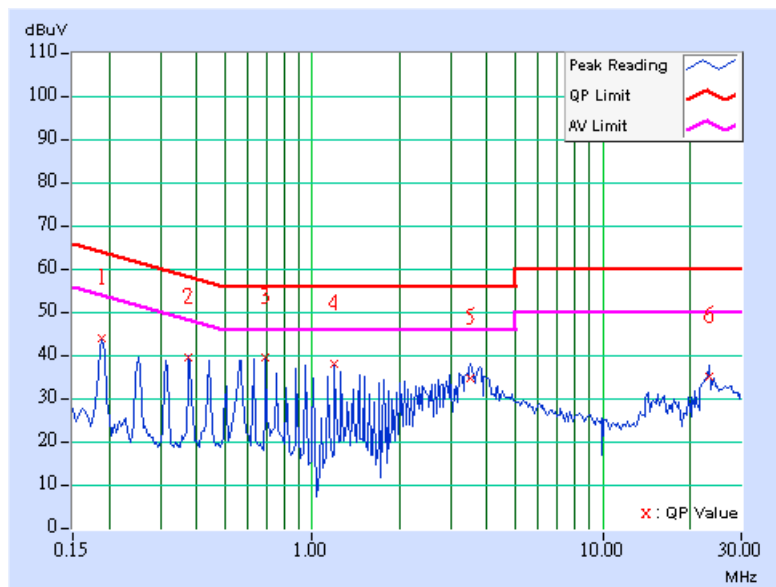




EUT	Wireless PCI Adapter	MODEL	F5D7001
CHANNEL	11	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	25 deg. C, 65% RH, 991 hPa	PA	2
TESTED BY	Steven Lu		

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	0.189	0.10	43.38	-	43.48	-	64.08
2	0.377	0.11	39.05	-	39.16	-	58.35	48.35	-19.19	-
3	0.693	0.17	39.05	-	39.22	-	56.00	46.00	-16.78	-
4	1.195	0.24	37.62	-	37.86	-	56.00	46.00	-18.14	-
5	3.523	0.29	34.26	-	34.55	-	56.00	46.00	-21.45	-
6	23.129	0.68	34.60	-	35.28	-	60.00	50.00	-24.72	-

- 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.





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
Test Receiver ROHDE & SCHWARZ	ESI7	100033	Jun, 08, 2005
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100040	Dec. 15, 2004
BILOG Antenna SCHWARZBECK	VULB9168	9168-153	Feb. 03, 2005
HORN Antenna SCHWARZBECK	9120D	9120D-408	Feb. 03, 2005
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA 9170243	Feb. 23, 2005
Preamplifier Agilent	8447D	2944A10633	Jan. 15, 2005
Preamplifier Agilent	8449B	3008A01964	Jan. 27, 2005
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	218183/4	Mar. 05, 2005
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	218195/4	Mar. 05, 2005
Software ADT.	ADT_Radiated_V5.14	NA	NA
Antenna Tower inn-co GmbH	MA 4000	013303	NA
Antenna Tower Controller inn-co GmbH	CO2000	017303	NA
Turn Table ADT.	TT100.	TT93021703	NA
Turn Table Controller ADT.	SC100.	SC93021703	NA

- NOTE:**
1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
 2. The test was performed in HwaYa Chamber 2.
 3. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
 4. The IC Site Registration No. is IC4924-3.



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

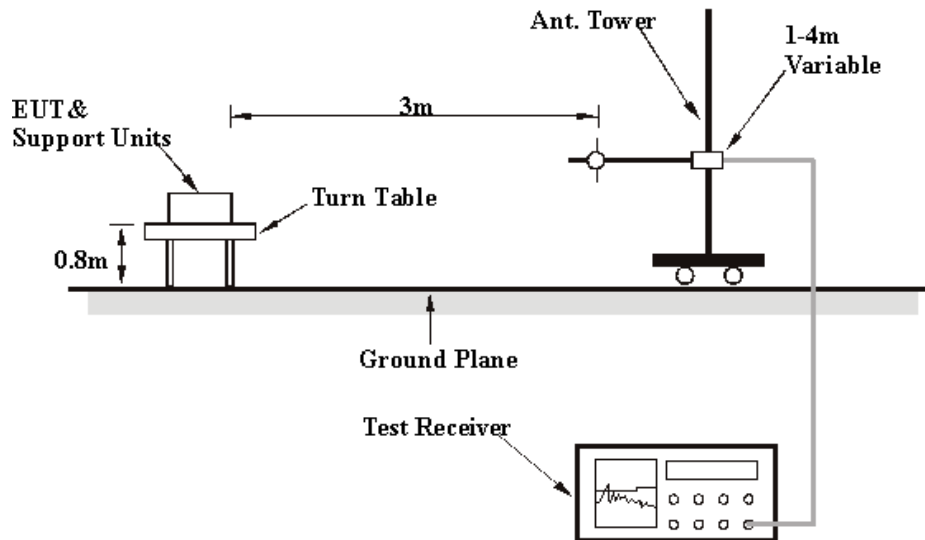
NOTE:

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 10 Hz 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	Wireless PCI Adapter	MODEL	F5D7001
CHANNEL	11	FREQUENCY RANGE	Below 1000 MHz
INPUT POWER (SYSTEM)	120 Vac, 60Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	27 deg. C, 62% RH, 991 hPa	PA	1
TESTED BY	Rush Kao		

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	142.75	37.29 QP	43.50	-6.21	1.50 H	259	22.78	14.51
2	432.38	34.51 QP	46.00	-11.49	2.00 H	262	16.95	17.55
3	488.76	39.23 QP	46.00	-6.77	1.75 H	211	20.79	18.44
4	539.30	37.30 QP	46.00	-8.70	1.25 H	46	18.03	19.27
5	566.51	31.33 QP	46.00	-14.67	1.25 H	82	11.42	19.91
6	634.55	33.85 QP	46.00	-12.15	1.25 H	202	12.57	21.27
7	667.60	36.80 QP	46.00	-9.20	1.25 H	220	15.14	21.66
8	733.69	37.66 QP	46.00	-8.34	1.75 H	307	14.82	22.84
9	799.78	35.21 QP	46.00	-10.79	1.00 H	127	11.75	23.46
10	867.82	36.87 QP	46.00	-9.13	2.00 H	295	12.64	24.23

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.



EUT	Wireless PCI Adapter	MODEL	F5D7001
CHANNEL	11	FREQUENCY RANGE	Below 1000 MHz
INPUT POWER (SYSTEM)	120 Vac, 60Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	27 deg. C, 62% RH, 991 hPa	PA	1
TESTED BY	Rush Kao		

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	76.65	32.29 QP	40.00	-7.71	1.00 V	232	21.54	10.74
2	142.75	29.60 QP	43.50	-13.90	2.00 V	223	15.09	14.51
3	218.56	33.28 QP	46.00	-12.72	1.50 V	226	21.59	11.69
4	432.38	37.16 QP	46.00	-8.84	1.25 V	319	19.61	17.55
5	488.76	40.48 QP	46.00	-5.52	1.00 V	304	22.04	18.44
6	537.35	38.45 QP	46.00	-7.55	1.00 V	157	19.21	19.23
7	599.56	37.91 QP	46.00	-8.09	1.50 V	34	17.09	20.82
8	634.55	36.72 QP	46.00	-9.28	1.00 V	172	15.45	21.27
9	667.60	37.20 QP	46.00	-8.80	1.00 V	145	15.54	21.66
10	710.36	36.65 QP	46.00	-9.35	1.50 V	109	14.39	22.26
11	867.82	40.19 QP	46.00	-5.81	1.00 V	334	15.96	24.23

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.



EUT	Wireless PCI Adapter	MODEL	F5D7001
CHANNEL	11	FREQUENCY RANGE	Below 1000 MHz
INPUT POWER (SYSTEM)	120 Vac, 60Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	28 deg. C, 62% RH, 991 hPa	PA	2
TESTED BY	Rush Kao		

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	138.86	33.41 QP	43.50	-10.09	1.25 H	268	19.06	14.35
2	399.34	34.92 QP	46.00	-11.08	1.00 H	103	18.21	16.71
3	482.93	37.57 QP	46.00	-8.43	2.00 H	193	19.20	18.38
4	496.53	35.06 QP	46.00	-10.94	1.50 H	7	16.53	18.53
5	667.60	36.03 QP	46.00	-9.97	1.00 H	325	14.37	21.66
6	733.69	41.73 QP	46.00	-4.27	1.00 H	97	18.89	22.84
7	766.73	35.70 QP	46.00	-10.30	1.00 H	103	12.39	23.31
8	799.78	36.78 QP	46.00	-9.22	1.00 H	205	13.32	23.46
9	867.82	40.95 QP	46.00	-5.05	2.00 H	298	16.72	24.23

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.



EUT	Wireless PCI Adapter	MODEL	F5D7001
CHANNEL	11	FREQUENCY RANGE	Below 1000 MHz
INPUT POWER (SYSTEM)	120 Vac, 60Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	27 deg. C, 62% RH, 991 hPa	PA	2
TESTED BY	Rush Kao		

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	74.71	32.06 QP	40.00	-7.94	1.00 V	253	20.81	11.25
2	480.98	42.41 QP	46.00	-3.59	1.00 V	52	24.06	18.35
3	488.76	40.78 QP	46.00	-5.22	1.00 V	43	22.33	18.44
4	539.30	35.90 QP	46.00	-10.10	1.00 V	343	16.63	19.27
5	690.92	36.67 QP	46.00	-9.33	1.00 V	160	14.76	21.91
6	733.69	41.58 QP	46.00	-4.42	1.00 V	331	18.75	22.84
7	766.73	36.68 QP	46.00	-9.32	1.25 V	328	13.36	23.31
8	799.78	39.00 QP	46.00	-7.00	1.00 V	325	15.54	23.46
9	821.16	39.00 QP	46.00	-7.00	1.00 V	337	15.35	23.65
10	867.82	42.77 QP	46.00	-3.23	1.00 V	10	18.54	24.23

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.



4.2.8 TEST RESULTS (A)

EUT	Wireless PCI Adapter	MODEL	F5D7001
CHANNEL	1	FREQUENCY RANGE	1 ~ 25 GHz
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	27 deg. C, 61% RH, 991 hPa	PA	1
TESTED BY	Long Chen		

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	1608.00	41.92 PK	74.00	-32.08	1.12 H	182	13.24	28.68
2	2390.00	49.52 PK	74.00	-24.48	1.37 H	196	17.99	31.53
3	*2412.00	105.93 PK			1.37 H	196	74.31	31.62
3	*2412.00	98.45 AV			1.37 H	196	66.83	31.62
4	3216.00	47.32 PK	74.00	-26.68	1.12 H	249	13.77	33.55
5	7236.00	53.41 PK	74.00	-20.59	1.00 H	41	9.63	43.78
5	7236.00	42.88 AV	54.00	-11.12	1.00 H	41	-0.90	43.78

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	1608.00	41.28 PK	74.00	-32.72	1.22 V	215	12.60	28.68
2	2390.00	57.61 PK	74.00	-16.39	1.00 V	126	26.08	31.53
2	2390.00	51.01 AV	54.00	-2.99	1.00 V	126	19.48	31.53
3	*2412.00	114.02 PK			1.00 V	126	82.40	31.62
3	*2412.00	107.42 AV			1.00 V	126	75.80	31.62
4	3216.00	47.92 PK	74.00	-26.08	1.51 V	187	14.37	33.55
5	7236.00	57.59 PK	74.00	-16.41	1.08 V	229	13.81	43.78
5	7236.00	44.95 AV	54.00	-9.05	1.08 V	229	1.17	43.78

- 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	Wireless PCI Adapter	MODEL	F5D7001
CHANNEL	6	FREQUENCY RANGE	1 ~ 25 GHz
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	27 deg. C, 61% RH, 991 hPa	PA	1
TESTED BY	Long Chen		

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	1624.00	42.28 PK	74.00	-31.72	1.05 H	118	13.59	28.69
2	*2437.00	105.70 PK			1.11 H	200	73.94	31.76
2	*2437.00	99.50 AV			1.11 H	200	67.74	31.76
3	3248.00	46.95 PK	74.00	-27.05	1.18 H	243	13.34	33.61
4	7311.00	52.98 PK	74.00	-21.02	1.00 H	46	8.99	43.99
4	7311.00	40.95 AV	54.00	-13.05	1.00 H	46	-3.04	43.99

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	1624.00	40.39 PK	74.00	-33.61	1.22 V	153	11.70	28.69
2	*2437.00	114.14 PK			1.00 V	82	82.38	31.76
2	*2437.00	106.86 AV			1.00 V	82	75.10	31.76
3	3248.00	48.95 PK	74.00	-25.05	1.53 V	189	15.34	33.61
4	7311.00	57.29 PK	74.00	-16.71	1.06 V	147	13.30	43.99
4	7311.00	45.28 AV	54.00	-8.72	1.06 V	147	1.29	43.99

- 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	Wireless PCI Adapter	MODEL	F5D7001
CHANNEL	11	FREQUENCY RANGE	1 ~ 25 GHz
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	27 deg. C, 61% RH, 991 hPa	PA	1
TESTED BY	Long Chen		

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	1641.00	41.28 PK	74.00	-32.72	1.06 H	125	12.58	28.70
2	*2462.00	106.40 PK			1.10 H	199	74.49	31.91
2	*2462.00	99.89 AV			1.10 H	199	67.98	31.91
3	2483.50	50.96 PK	74.00	-23.04	1.10 H	199	18.93	32.03
4	3282.00	47.10 PK	74.00	-26.90	1.00 H	241	13.44	33.67
5	7386.00	53.91 PK	74.00	-20.09	1.00 H	42	9.66	44.25

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	1641.00	40.81 PK	74.00	-33.19	1.28 V	128	12.11	28.70
2	*2462.00	113.64 PK			1.16 V	136	81.73	31.91
2	*2462.00	106.33 AV			1.16 V	136	74.42	31.91
3	2483.50	58.20 PK	74.00	-15.80	1.16 V	136	26.17	32.03
3	2483.50	50.89 AV	54.00	-3.11	1.16 V	136	18.86	32.03
4	3282.00	49.68 PK	74.00	-24.32	1.00 V	182	16.02	33.67
5	7386.00	56.38 PK	74.00	-17.62	1.06 V	153	12.13	44.25
5	7386.00	44.82 AV	54.00	-9.18	1.06 V	153	0.57	44.25

- 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	Wireless PCI Adapter	MODEL	F5D7001
CHANNEL	1	FREQUENCY RANGE	1 ~ 25 GHz
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25 deg. C, 65% RH, 991 hPa	PA	2
TESTED BY	Rush Kao		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	48.66 PK	74.00	-25.34	1.19 H	299	14.83	33.83
2	*2412.00	104.56 PK			1.19 H	299	70.63	33.93
2	*2412.00	97.29 AV			1.19 H	299	63.36	33.93
3	4824.00	52.77 PK	74.00	-21.23	1.13 H	287	12.11	40.66
3	4824.00	42.38 AV	54.00	-11.62	1.13 H	287	1.72	40.66

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	56.88 PK	74.00	-17.12	1.23 V	306	23.05	33.83
1	2390.00	49.62 AV	54.00	-4.38	1.23 V	306	15.79	33.83
2	*2412.00	112.78 PK			1.23 V	306	78.85	33.93
2	*2412.00	105.52 AV			1.23 V	306	71.59	33.93
3	4824.00	54.64 PK	74.00	-19.36	1.08 V	337	13.98	40.66
3	4824.00	49.00 AV	54.00	-5.00	1.08 V	337	8.34	40.66

- 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	Wireless PCI Adapter	MODEL	F5D7001
CHANNEL	6	FREQUENCY RANGE	1 ~ 25 GHz
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25 deg. C, 65% RH, 991 hPa	PA	2
TESTED BY	Rush Kao		

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	*2437.00	101.20 PK			1.25 H	109	67.15	34.05
1	*2437.00	96.12 AV			1.25 H	109	62.07	34.05
2	4874.00	50.76 PK	74.00	-23.24	1.00 H	16	10.07	40.69

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	*2437.00	110.27 PK			1.29 V	291	76.22	34.05
1	*2437.00	103.97 AV			1.29 V	291	69.92	34.05
2	4874.00	56.12 PK	74.00	-17.88	1.00 V	24	15.43	40.69
2	4874.00	48.10 AV	54.00	-5.90	1.00 V	24	7.41	40.69

- 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	Wireless PCI Adapter	MODEL	F5D7001
CHANNEL	11	FREQUENCY RANGE	1 ~ 25 GHz
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25 deg. C, 65% RH, 991 hPa	PA	2
TESTED BY	Rush Kao		

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	*2462.00	102.77 PK			1.00 H	307	68.61	34.16
1	*2462.00	96.08 AV			1.00 H	307	61.92	34.16
2	2483.50	46.87 PK	74.00	-27.13	1.00 H	307	12.61	34.26
3	4924.00	50.93 PK	74.00	-23.07	1.04 H	334	10.07	40.86

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	*2462.00	111.03 PK			1.03 V	319	76.87	34.16
1	*2462.00	104.54 AV			1.03 V	319	70.38	34.16
2	2483.50	55.13 PK	74.00	-18.87	1.03 V	319	20.87	34.26
2	2483.50	48.64 AV	54.00	-5.36	1.03 V	319	14.38	34.26
3	4824.00	51.70 PK	74.00	-22.30	1.00 V	271	11.04	40.66
3	4824.00	42.31 AV	54.00	-11.69	1.00 V	271	1.65	40.66

- 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.



4.2.9 TEST RESULTS (B)

EUT	Wireless PCI Adapter	MODEL	F5D7001
CHANNEL	1	FREQUENCY RANGE	1 ~ 25 GHz
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25 deg. C, 57% RH, 991 hPa	PA	1
TESTED BY	Leo Hung		

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	1066.00	40.69 PK	74.00	-33.31	1.16 H	310	11.94	28.75
2	1132.00	42.19 PK	74.00	-31.81	1.17 H	298	13.09	29.09
3	1266.00	41.00 PK	74.00	-33.00	1.21 H	303	11.10	29.90
4	1608.00	43.94 PK	74.00	-30.06	1.13 H	301	13.81	30.13
5	2390.00	46.73 PK	74.00	-27.27	1.30 H	293	12.90	33.83
6	*2412.00	106.41 PK			1.30 H	293	72.48	33.93
6	*2412.00	103.08 AV			1.30 H	293	69.15	33.93
7	3216.00	48.53 PK	74.00	-25.47	1.00 H	360	12.19	36.33
8	4824.00	50.74 PK	74.00	-23.26	1.24 H	127	10.08	40.66

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	1066.00	42.44 PK	74.00	-31.56	1.48 V	327	13.69	28.75
2	1132.00	43.85 PK	74.00	-30.15	1.48 V	337	14.75	29.09
3	1266.00	47.06 PK	74.00	-26.94	1.16 V	341	17.16	29.90
4	1608.00	43.39 PK	74.00	-30.61	1.64 V	331	13.26	30.13
5	2390.00	49.22 PK	74.00	-24.78	1.18 V	345	15.39	33.83
6	*2412.00	108.90 PK			1.18 V	345	74.97	33.93
6	*2412.00	105.34 AV			1.18 V	345	71.41	33.93
7	3216.00	50.39 PK	74.00	-23.61	1.06 V	360	14.05	36.33
8	4824.00	51.23 PK	74.00	-22.77	1.08 V	95	10.57	40.66
8	4824.00	40.22 AV	54.00	-13.78	1.08 V	95	-0.44	40.66

- 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	Wireless PCI Adapter	MODEL	F5D7001
CHANNEL	6	FREQUENCY RANGE	1 ~ 25 GHz
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25 deg. C, 57% RH, 991 hPa	PA	1
TESTED BY	Leo Hung		

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	1066.00	43.26 PK	74.00	-30.74	1.40 H	211	14.51	28.75
2	1132.00	40.41 PK	74.00	-33.59	1.26 H	211	11.31	29.09
3	1624.00	42.52 PK	74.00	-31.48	1.21 H	304	12.36	30.16
4	*2437.00	100.14 PK			1.12 H	318	66.09	34.05
4	*2437.00	97.43 AV			1.12 H	318	63.38	34.05
5	3248.00	48.03 PK	74.00	-25.97	1.03 H	311	11.67	36.36
6	4874.00	51.70 PK	74.00	-22.30	1.00 H	145	11.01	40.69
6	4874.00	38.48 AV	54.00	-15.52	1.00 H	145	-2.21	40.69

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	1066.00	42.24 PK	74.00	-31.76	1.52 V	329	13.49	28.75
2	1132.00	44.25 PK	74.00	-29.75	1.44 V	333	15.15	29.09
3	1624.00	42.18 PK	74.00	-31.82	1.18 V	337	12.02	30.16
4	*2437.00	109.39 PK			1.22 V	352	75.35	34.05
4	*2437.00	107.62 AV			1.22 V	352	73.57	34.05
5	3248.00	48.24 PK	74.00	-25.76	1.03 V	311	11.88	36.36
6	4874.00	51.12 PK	74.00	-22.88	1.02 V	212	10.43	40.69
6	4874.00	39.01 AV	54.00	-14.99	1.02 V	212	-1.68	40.69

- 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	Wireless PCI Adapter	MODEL	F5D7001
CHANNEL	11	FREQUENCY RANGE	1 ~ 25 GHz
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25 deg. C, 57% RH, 991 hPa	PA	1
TESTED BY	Leo Hung		

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	1066.00	41.21 PK	74.00	-32.79	1.25 H	309	12.46	28.75
2	1132.00	41.64 PK	74.00	-32.36	1.07 H	301	12.54	29.09
3	1642.00	42.76 PK	74.00	-31.24	1.23 H	303	12.57	30.18
4	*2462.00	100.11 PK			1.18 H	315	65.95	34.16
4	*2462.00	96.77 AV			1.18 H	315	62.61	34.16
5	2483.50	42.11 PK	74.00	-31.89	1.18 H	315	7.85	34.26
6	3284.00	48.34 PK	74.00	-25.66	1.00 H	279	11.94	36.40
7	4924.00	51.28 PK	74.00	-22.72	1.00 H	247	10.42	40.86
7	4924.00	38.77 AV	54.00	-15.23	1.00 H	247	-2.09	40.86

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	1066.00	42.15 PK	74.00	-31.85	1.53 V	322	13.40	28.75
2	1132.00	43.43 PK	74.00	-30.57	1.39 V	333	14.33	29.09
3	1642.00	44.10 PK	74.00	-29.90	1.21 V	328	13.91	30.18
4	*2462.00	110.44 PK			1.35 V	294	76.28	34.16
4	*2462.00	107.07 AV			1.35 V	294	72.91	34.16
5	2483.50	52.77 PK	74.00	-21.23	1.35 V	294	18.51	34.26
5	2483.50	49.40 AV	54.00	-4.60	1.35 V	294	15.14	34.26
6	3284.00	51.00 PK	74.00	-23.00	1.05 V	329	14.60	36.40
6	3284.00	42.42 AV	54.00	-11.58	1.05 V	329	6.02	36.40
7	4924.00	31.72 PK	74.00	-42.28	1.35 V	352	-9.14	40.86

- 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	Wireless PCI Adapter	MODEL	F5D7001
CHANNEL	1	FREQUENCY RANGE	1 ~ 25 GHz
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	27 deg. C, 62% RH, 991 hPa	PA	2
TESTED BY	Rush Kao		

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	1266.00	44.97 PK	74.00	-29.03	1.14 H	287	15.07	29.90
2	2390.00	42.37 PK	74.00	-31.63	1.11 H	358	8.54	33.83
3	*2412.00	97.45 PK			1.11 H	358	63.52	33.93
3	*2412.00	94.47 AV			1.11 H	358	60.54	33.93
4	4824.00	50.73 PK	74.00	-23.27	1.08 H	6	10.07	40.66

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	1266.00	48.21 PK	74.00	-25.79	1.17 V	332	18.31	29.90
2	2390.00	53.99 PK	74.00	-20.01	1.23 V	302	20.16	33.83
2	2390.00	50.58 AV	54.00	-3.42	1.23 V	302	16.75	33.83
3	*2412.00	109.07 PK			1.23 V	302	75.14	33.93
3	*2412.00	105.66 AV			1.23 V	302	71.73	33.93
4	4824.00	52.01 PK	74.00	-21.99	1.16 V	254	11.35	40.66
4	4824.00	48.32 AV	54.00	-5.68	1.16 V	254	7.66	40.66

- 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	Wireless PCI Adapter	MODEL	F5D7001
CHANNEL	6	FREQUENCY RANGE	1 ~ 25 GHz
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	27 deg. C, 62% RH, 991 hPa	PA	2
TESTED BY	Rush Kao		

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	1266.00	43.66 PK	74.00	-30.34	1.13 H	285	13.76	29.90
2	*2437.00	99.04 PK			1.00 H	271	64.99	34.05
2	*2437.00	95.50 AV			1.00 H	271	61.45	34.05
3	4824.00	51.41 PK	74.00	-22.59	1.35 H	358	10.75	40.66
3	4824.00	41.69 AV	54.00	-12.31	1.35 H	358	1.03	40.66

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	1266.00	47.90 PK	74.00	-26.10	1.16 V	356	18.00	29.90
2	*2437.00	107.48 PK			1.00 V	304	73.43	34.05
2	*2437.00	104.27 AV			1.00 V	304	70.22	34.05
3	4874.00	54.24 PK	74.00	-19.76	1.16 V	344	13.55	40.69
3	4874.00	51.95 AV	54.00	-2.05	1.16 V	344	11.26	40.69

- 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	Wireless PCI Adapter	MODEL	F5D7001
CHANNEL	11	FREQUENCY RANGE	1 ~ 25 GHz
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	27 deg. C, 62% RH, 991 hPa	PA	2
TESTED BY	Rush Kao		

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	1266.00	43.75 PK	74.00	-30.25	1.14 H	287	13.85	29.90
2	*2462.00	101.77 PK			1.14 H	295	67.61	34.16
2	*2462.00	98.79 AV			1.14 H	295	64.63	34.16
3	2483.50	45.50 PK	74.00	-28.50	1.14 H	295	11.24	34.26
4	4924.00	50.78 PK	74.00	-23.22	1.34 H	307	9.92	40.86

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	1266.00	48.88 PK	74.00	-25.12	1.15 V	329	18.98	29.90
2	*2462.00	108.31 PK			1.00 V	300	74.15	34.16
2	*2462.00	105.43 AV			1.00 V	300	71.27	34.16
3	2483.50	52.04 PK	74.00	-21.96	1.00 V	300	17.78	34.26
3	2483.50	49.16 AV	54.00	-4.84	1.00 V	300	14.90	34.26
4	4924.00	50.96 PK	74.00	-23.04	1.14 V	310	10.10	40.86

- 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	Wireless PCI Adapter	MODEL	F5D7001
CHANNEL	6 (Turbo)	FREQUENCY RANGE	1 ~ 25 GHz
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	24 deg. C, 64% RH, 991 hPa	PA	1
TESTED BY	Leo Hung		

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	1624.00	41.69 PK	74.00	-32.31	1.00 H	66	13.11	28.58
2	2390.00	42.08 PK	74.00	-31.92	1.34 H	360	10.47	31.61
3	*2437.00	98.27 PK			1.34 H	360	66.42	31.85
3	*2437.00	92.20 AV			1.34 H	360	60.35	31.85
4	2483.50	43.36 PK	74.00	-30.64	1.34 H	360	11.23	32.13
5	3248.00	46.51 PK	74.00	-27.49	1.19 H	160	12.66	33.86
6	4874.00	49.51 PK	74.00	-24.49	1.45 H	46	11.85	37.66

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	1624.00	43.10 PK	74.00	-30.90	1.00 V	328	14.52	28.58
2	2390.00	54.02 PK	74.00	-19.98	1.34 V	222	22.41	31.61
2	2390.00	45.89 AV	54.00	-8.11	1.34 V	222	14.28	31.61
3	*2437.00	110.21 PK			1.34 V	222	78.36	31.85
3	*2437.00	102.08 AV			1.34 V	222	70.23	31.85
4	2483.50	56.19 PK	74.00	-17.81	1.34 V	222	24.06	32.13
4	2483.50	47.17 AV	54.00	-6.83	1.34 V	222	15.04	32.13
5	3248.00	48.40 PK	74.00	-25.60	1.02 V	279	14.55	33.86
6	4874.00	50.59 PK	74.00	-23.41	1.20 V	47	12.93	37.66

- 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	Wireless PCI Adapter	MODEL	F5D7001
CHANNEL	6 (Turbo)	FREQUENCY RANGE	1 ~ 25 GHz
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25 deg. C, 62% RH, 991 hPa	PA	2
TESTED BY	Long Chen		

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	1624.00	45.06 PK	74.00	-28.94	1.88 H	205	16.48	28.58
2	2390.00	44.62 PK	74.00	-29.38	1.20 H	221	13.01	31.61
3	*2437.00	103.79 PK			1.20 H	221	71.94	31.85
3	*2437.00	90.17 AV			1.20 H	221	58.32	31.85
4	2483.50	44.81 PK	74.00	-29.19	1.20 H	221	12.68	32.13
5	3248.00	45.62 PK	74.00	-28.38	1.01 H	84	11.76	33.86
6	4874.00	49.24 PK	74.00	-24.76	1.00 H	345	11.58	37.66
7	7311.00	54.28 PK	74.00	-19.72	1.00 H	22	9.96	44.33
7	7311.00	42.08 AV	54.00	-11.92	1.00 H	22	-2.24	44.33
8	9748.00	58.12 PK	74.00	-15.88	1.00 H	318	9.68	48.44
8	9748.00	45.58 AV	54.00	-8.42	1.00 H	318	-2.86	48.44

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	1624.00	44.28 PK	74.00	-29.72	1.68 V	153	15.70	28.58
2	2390.00	54.03 PK	74.00	-19.97	1.00 V	192	22.42	31.61
2	2390.00	41.66 AV	54.00	-12.34	1.00 V	192	10.05	31.61
3	*2437.00	113.20 PK			1.00 V	192	81.35	31.85
3	*2437.00	100.83 AV			1.00 V	192	68.98	31.85
4	2483.50	54.22 PK	74.00	-19.78	1.00 V	192	22.09	32.13
4	2483.50	41.85 AV	54.00	-12.15	1.00 V	192	9.72	32.13
5	3248.00	48.50 PK	74.00	-25.50	1.68 V	153	14.65	33.86
6	4874.00	57.41 PK	74.00	-16.59	1.02 V	157	19.75	37.66
6	4874.00	44.77 AV	54.00	-9.23	1.02 V	157	7.11	37.66
7	7311.00	55.92 PK	74.00	-18.08	1.00 V	205	11.60	44.33
7	7311.00	46.42 AV	54.00	-7.58	1.00 V	205	2.10	44.33
8	9748.00	60.55 PK	74.00	-13.45	1.00 V	31	12.11	48.44
8	9748.00	49.46 AV	54.00	-4.54	1.00 V	31	1.02	48.44

- 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, 2005

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

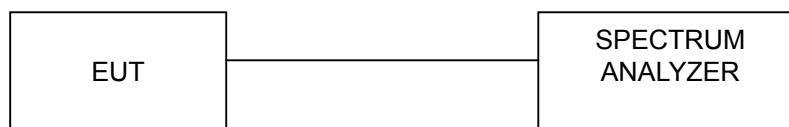
4.3.3 TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 100 kHz 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.



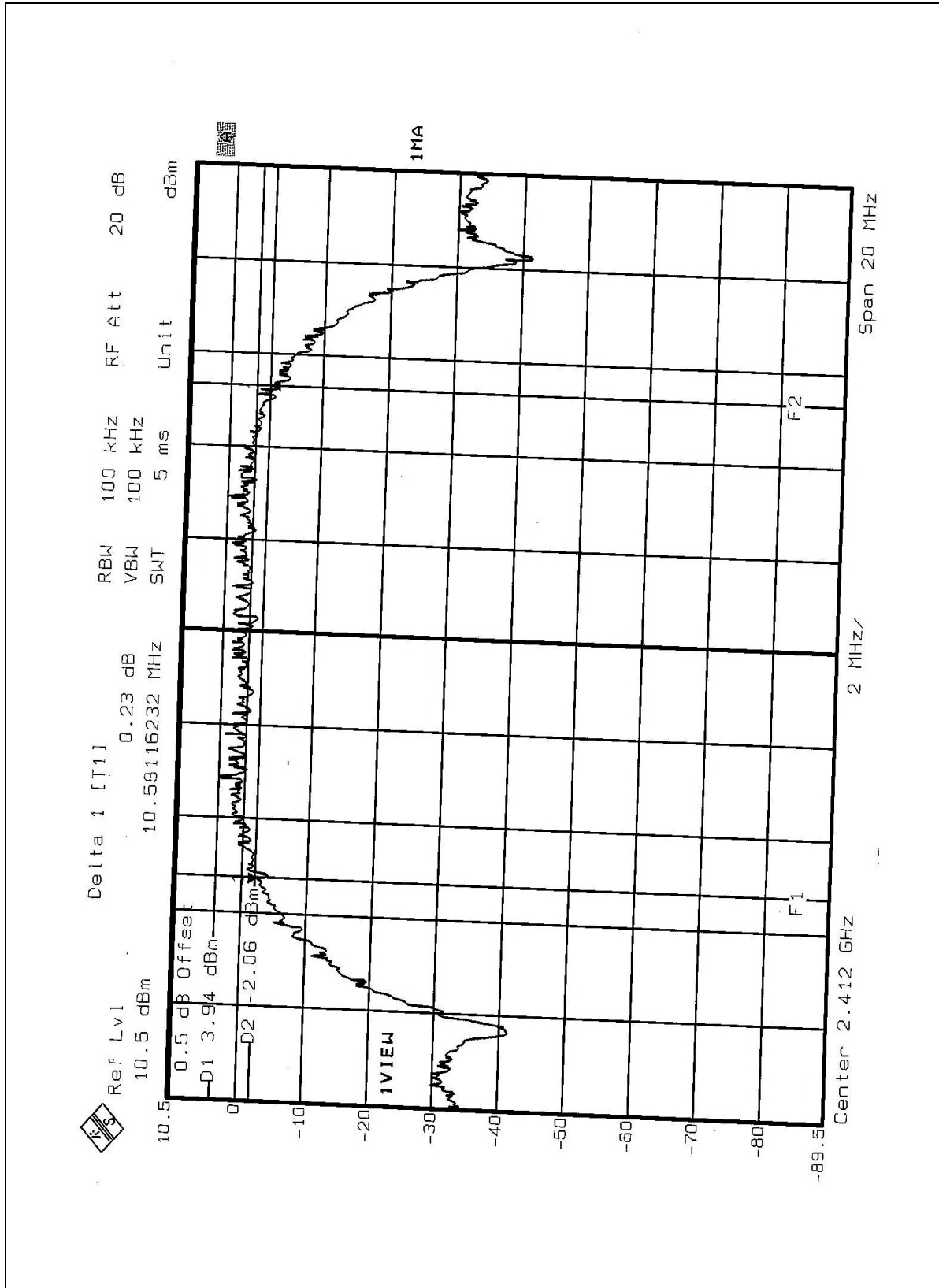
4.3.7 TEST RESULTS (A)

EUT	Wireless PCI Adapter	MODEL	F5D7001
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	26 deg. C, 67% RH, 991 hPa
PA	1	TESTED BY	Leo Hung

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS/FAIL
1	2412	10.58	0.5	PASS
6	2437	10.90	0.5	PASS
11	2462	11.18	0.5	PASS

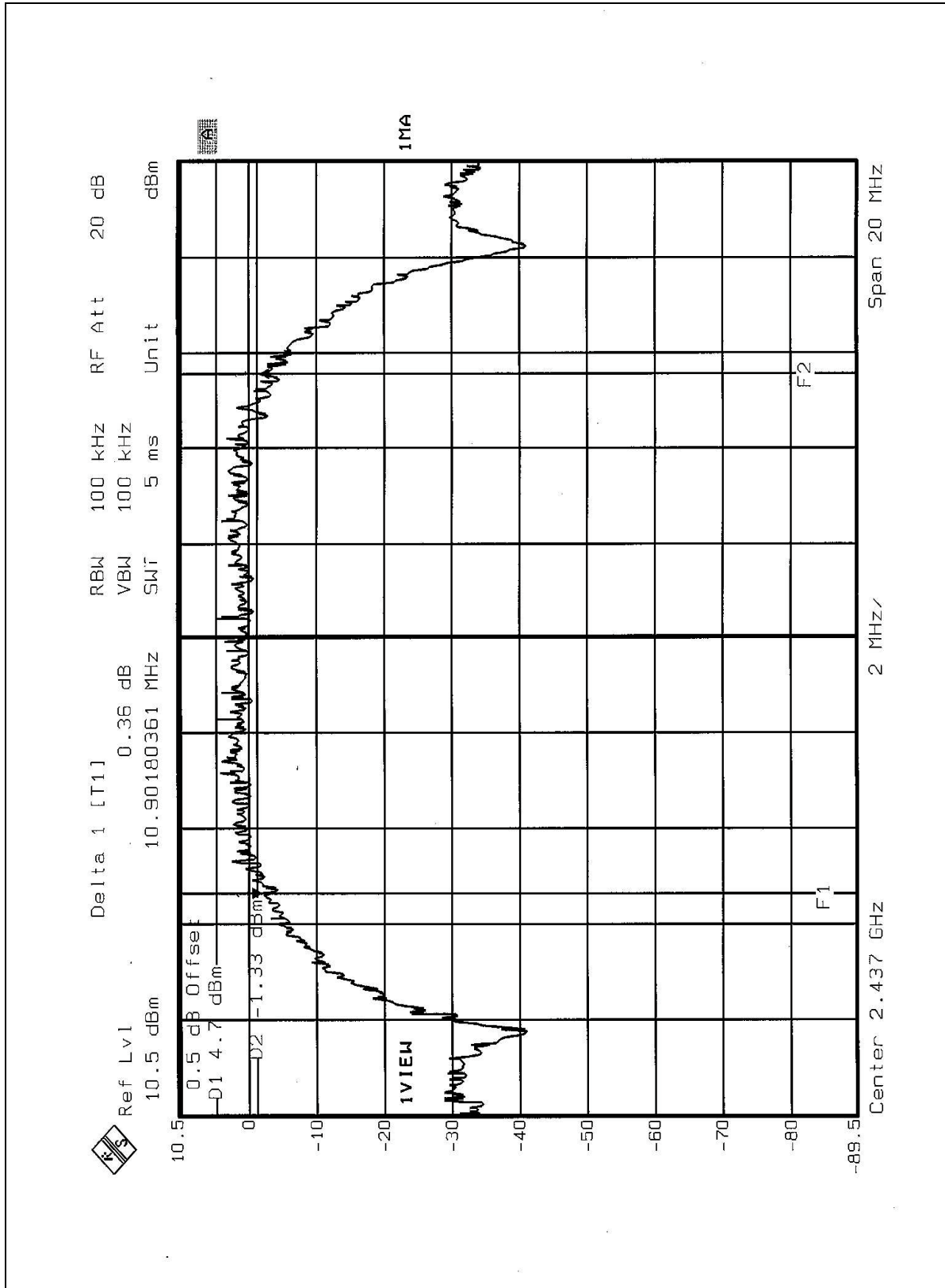


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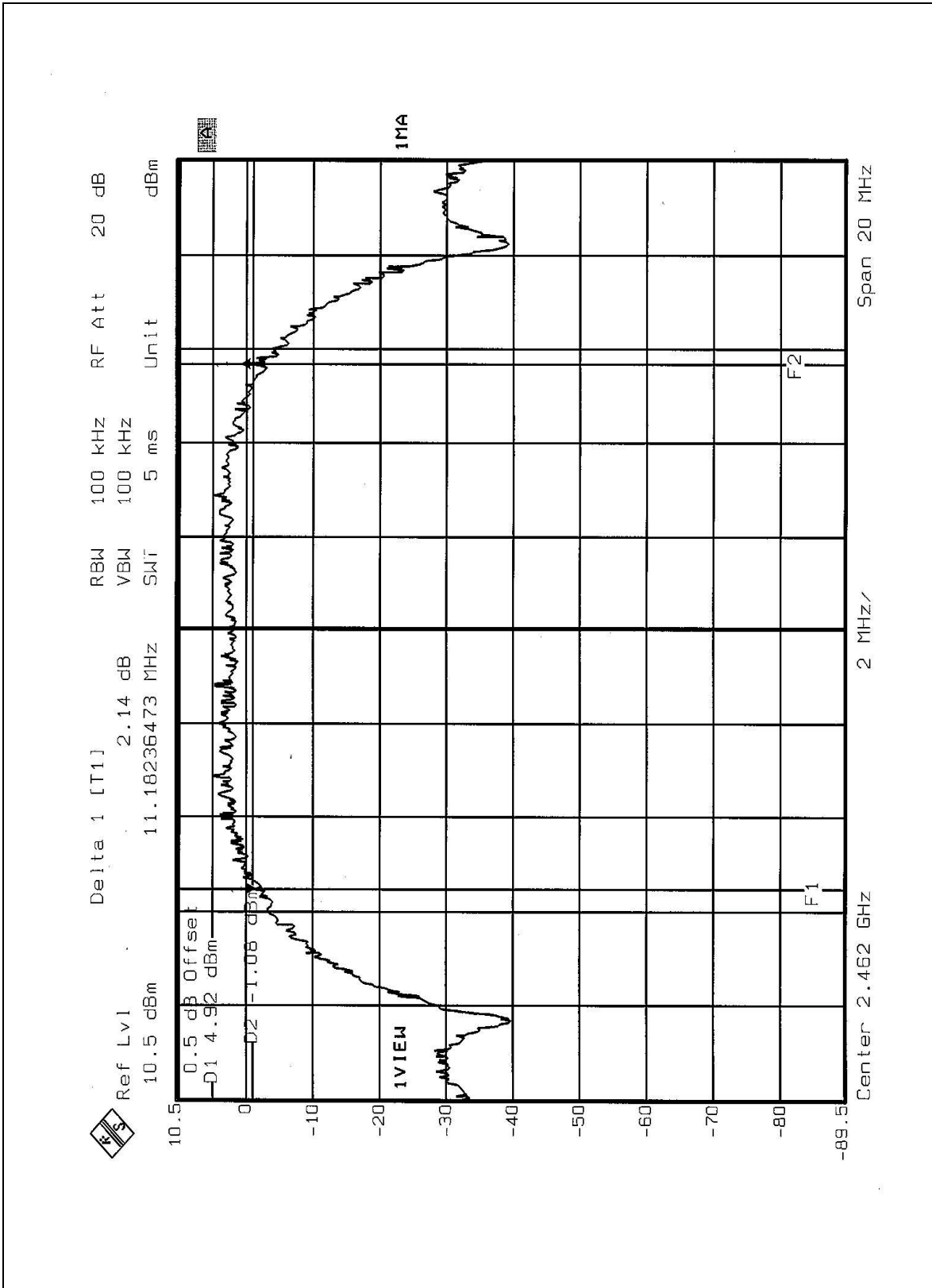


CH6





CH11



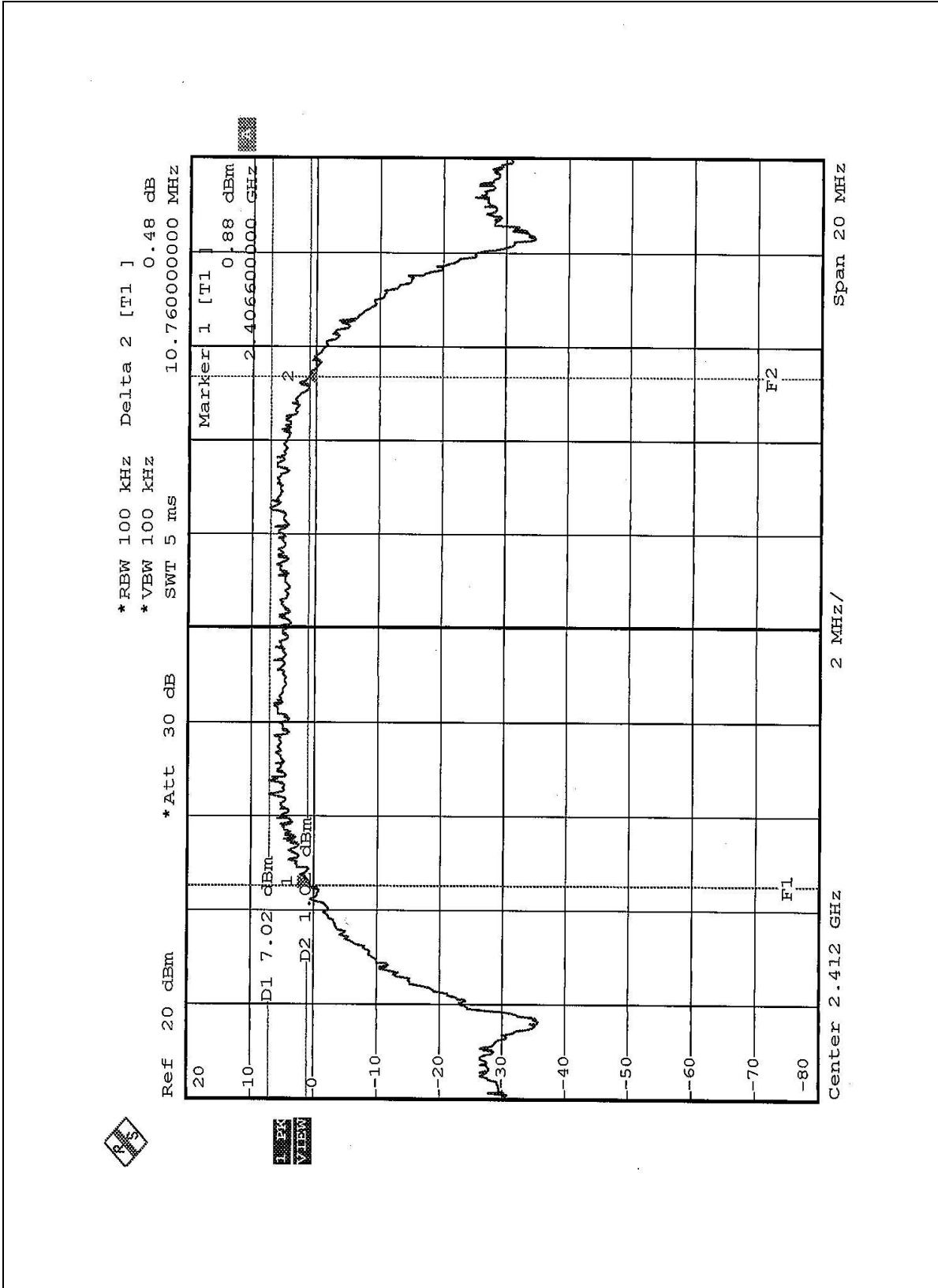


EUT	Wireless PCI Adapter	MODEL	F5D7001
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	23 deg. C, 67% RH, 991 hPa
PA	2	TESTED BY	Leo Hung

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS/FAIL
1	2412	10.76	0.5	PASS
6	2437	11.12	0.5	PASS
11	2462	11.48	0.5	PASS

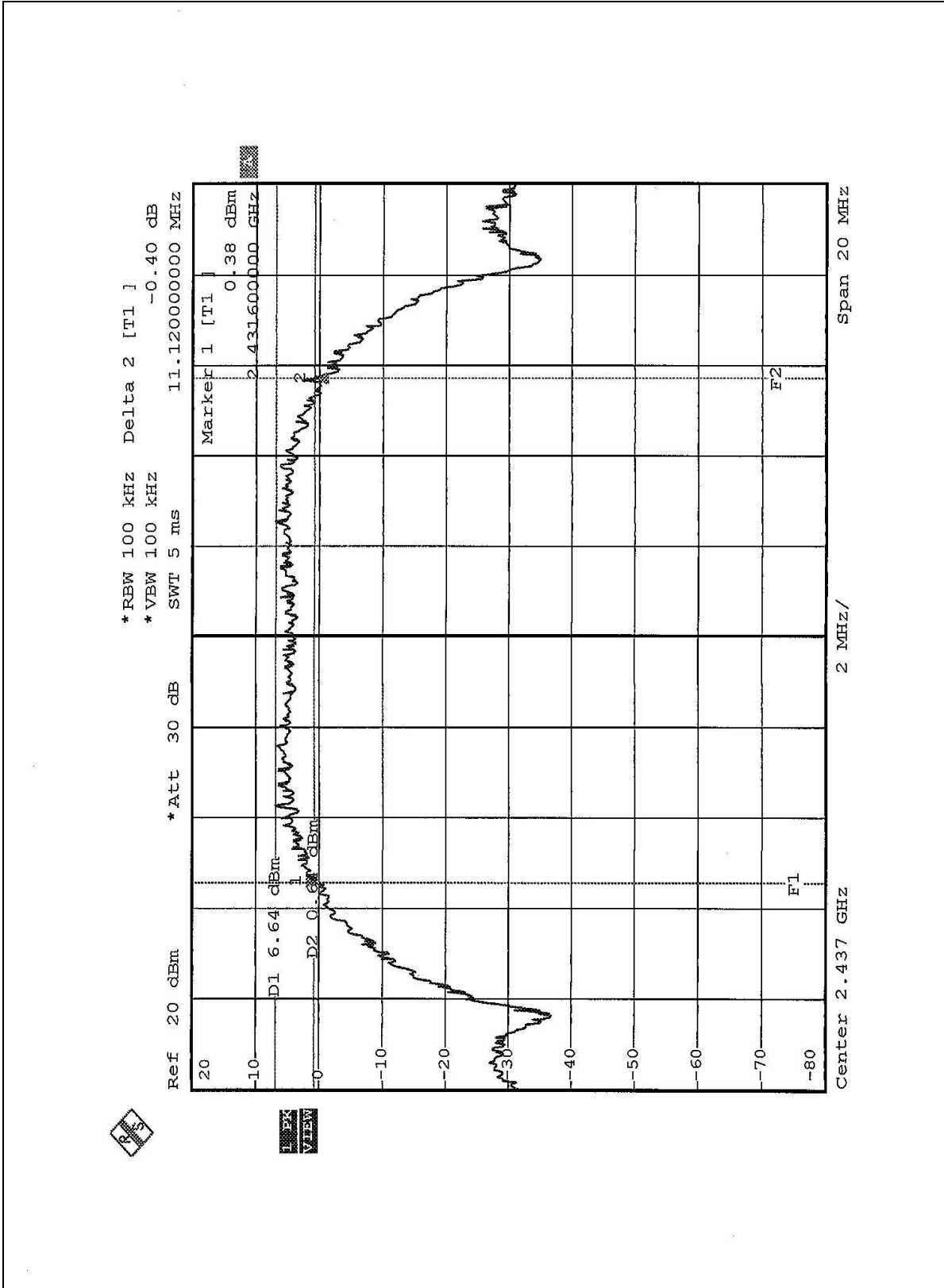


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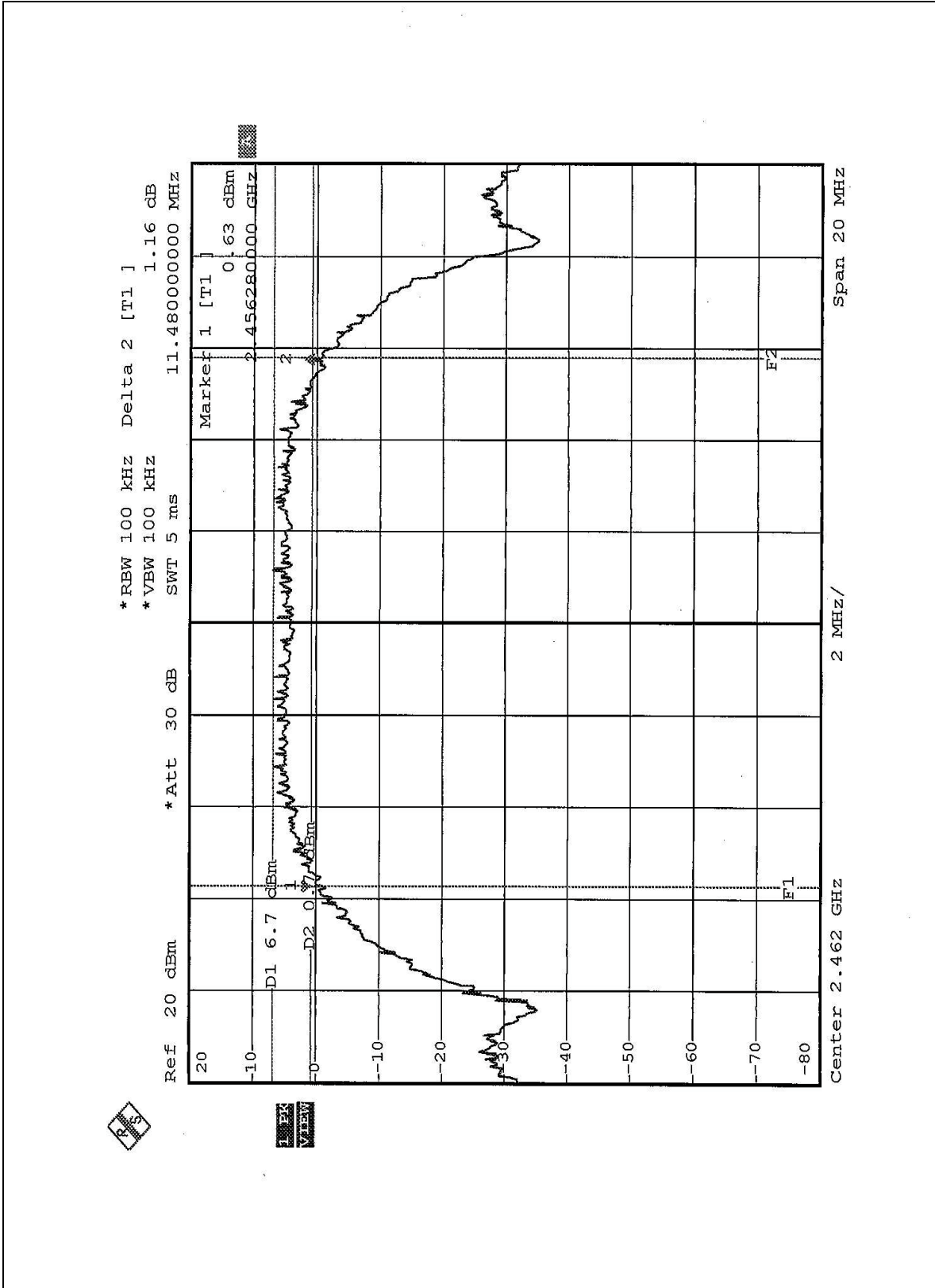


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CH11





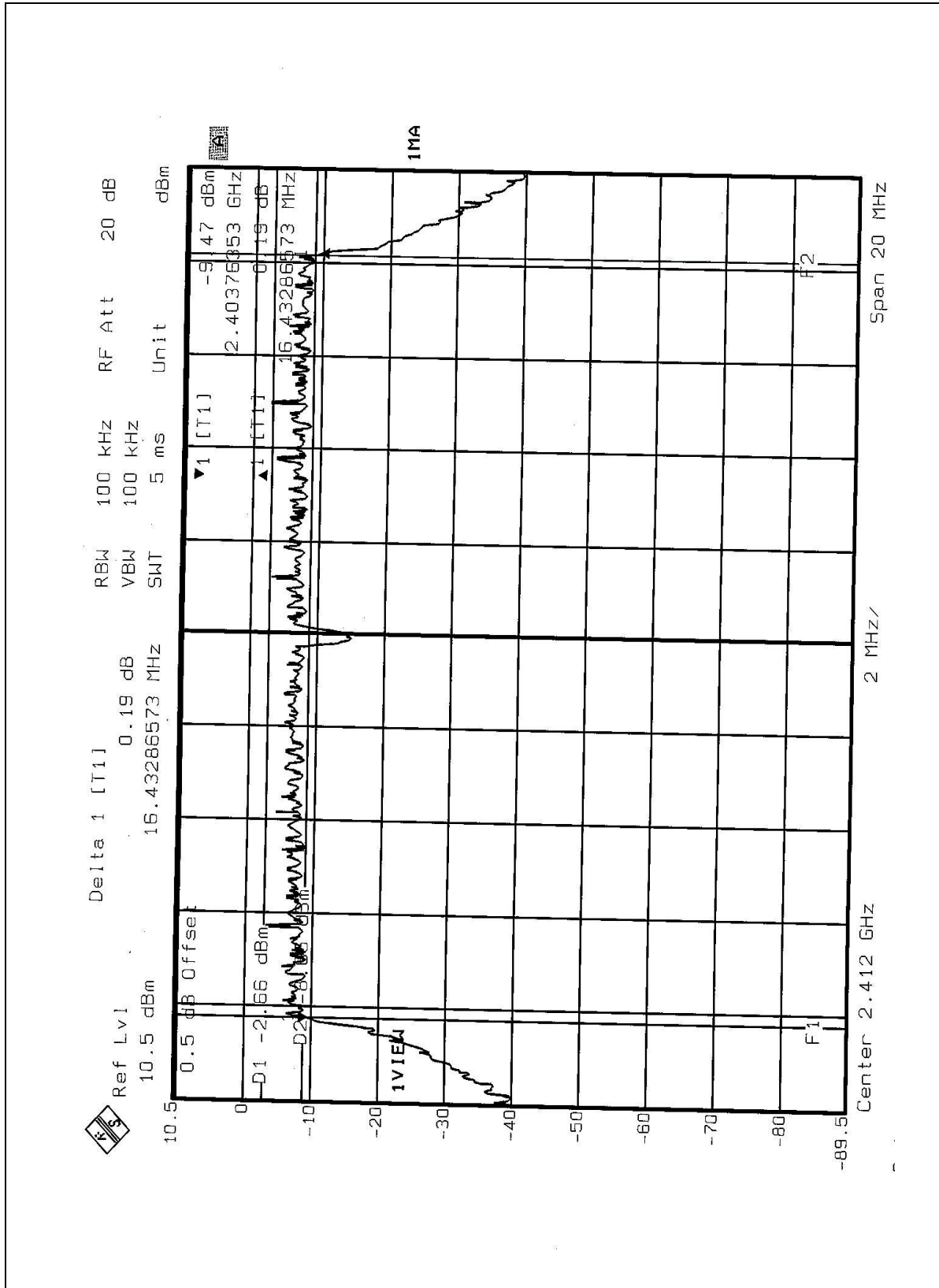
4.3.8 TEST RESULTS (B)

EUT	Wireless PCI Adapter	MODEL	F5D7001
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	26 deg. C, 67% RH, 991 hPa
PA	1	TESTED BY	Leo Hung

CHANNEL	CHANNEL FREQUENCY (MHz)	6 dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS/FAIL
1	2412	16.43	0.5	PASS
6	2437	16.59	0.5	PASS
11	2462	16.59	0.5	PASS
6 (Turbo)	2437	16.51	0.5	PASS

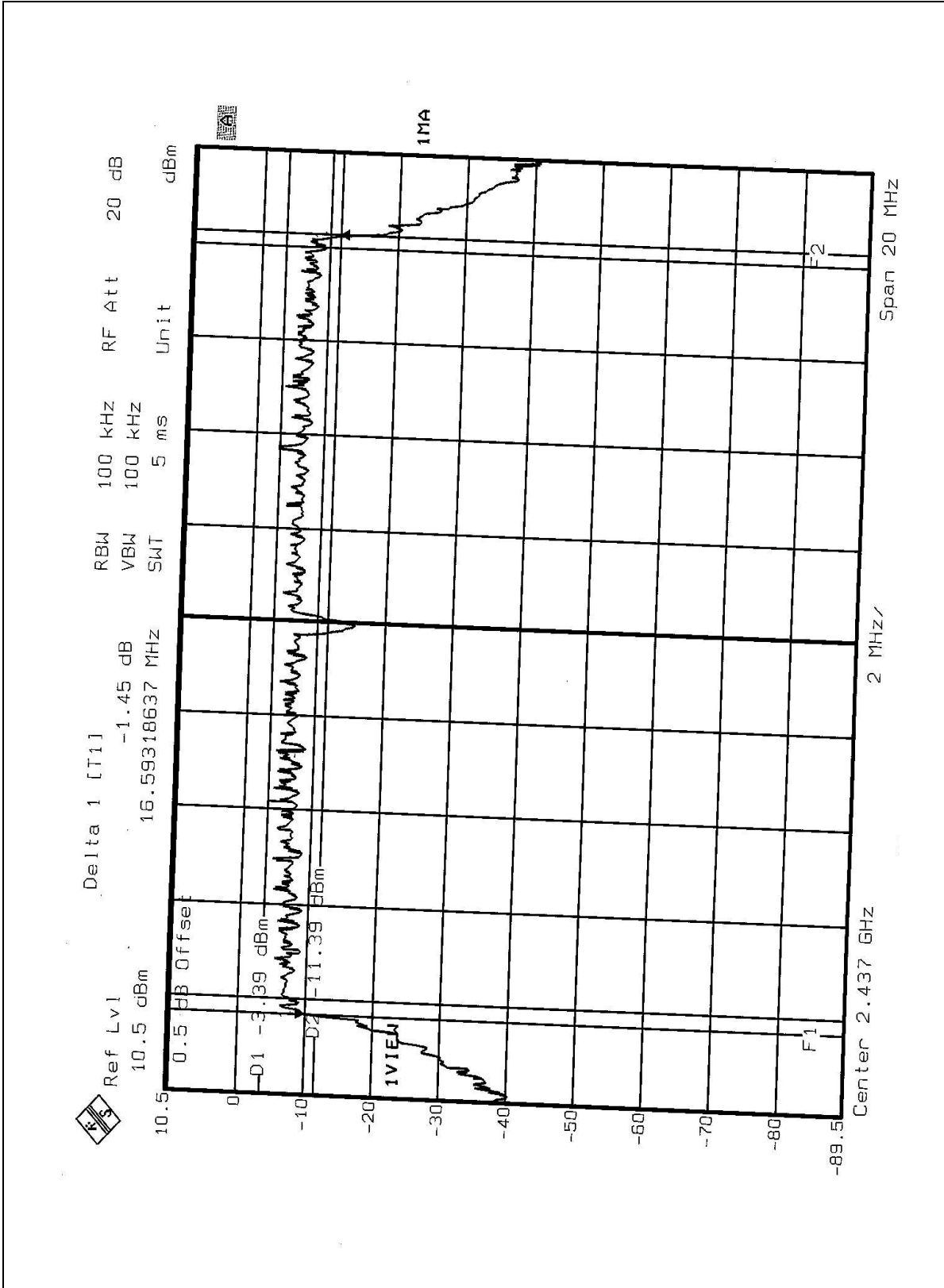


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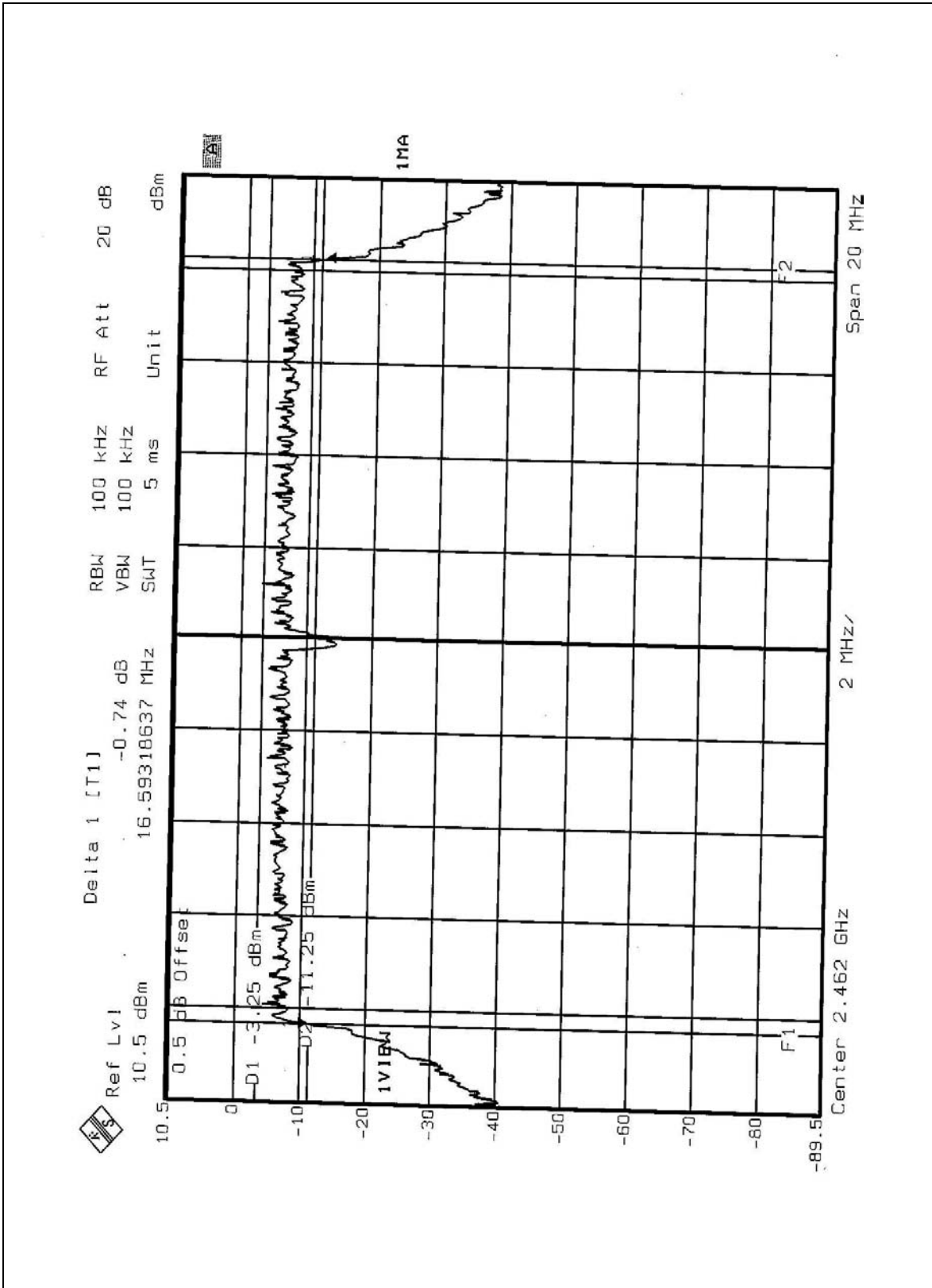


CH6



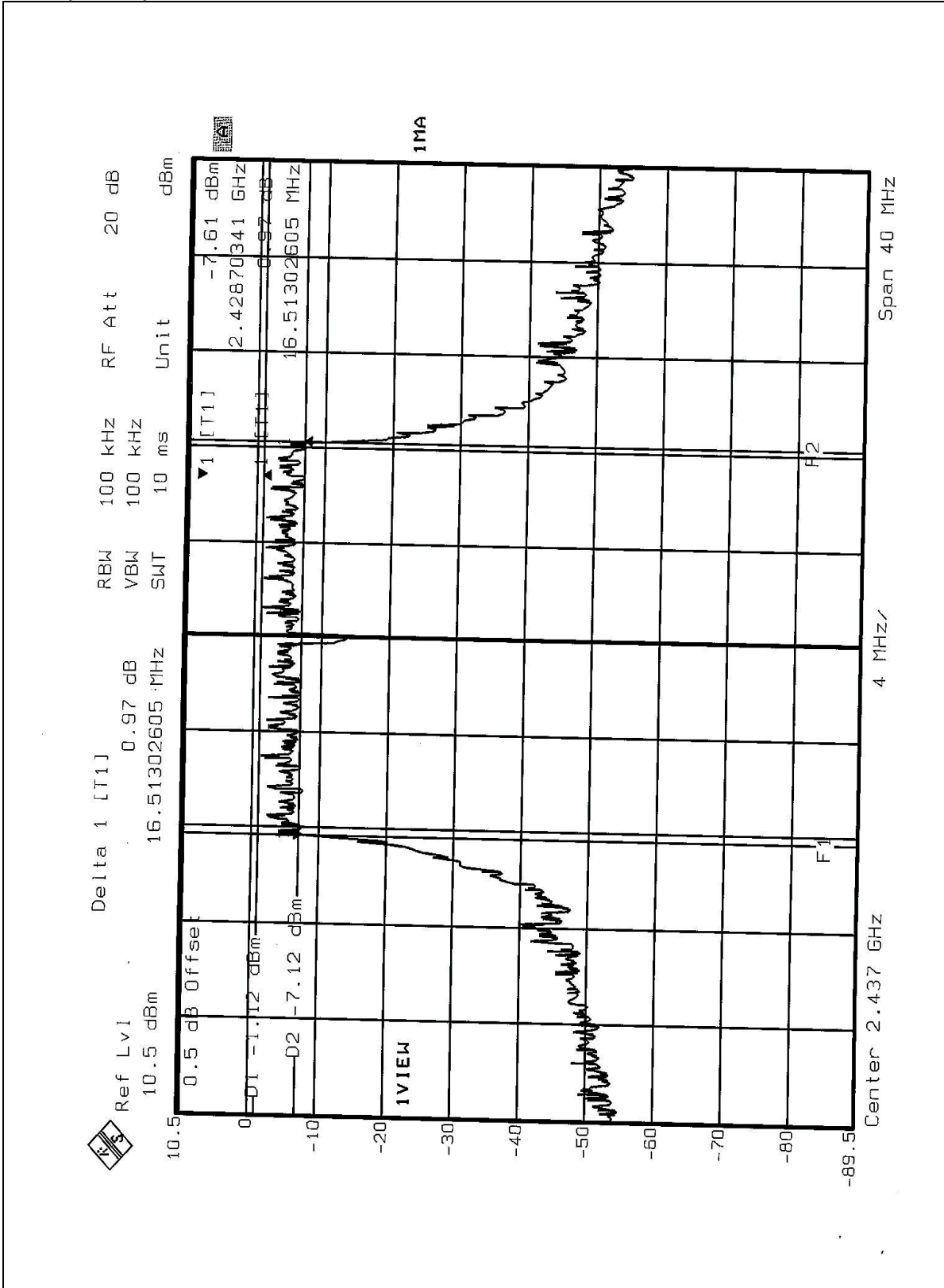


CH11





CH6 (Turbo)



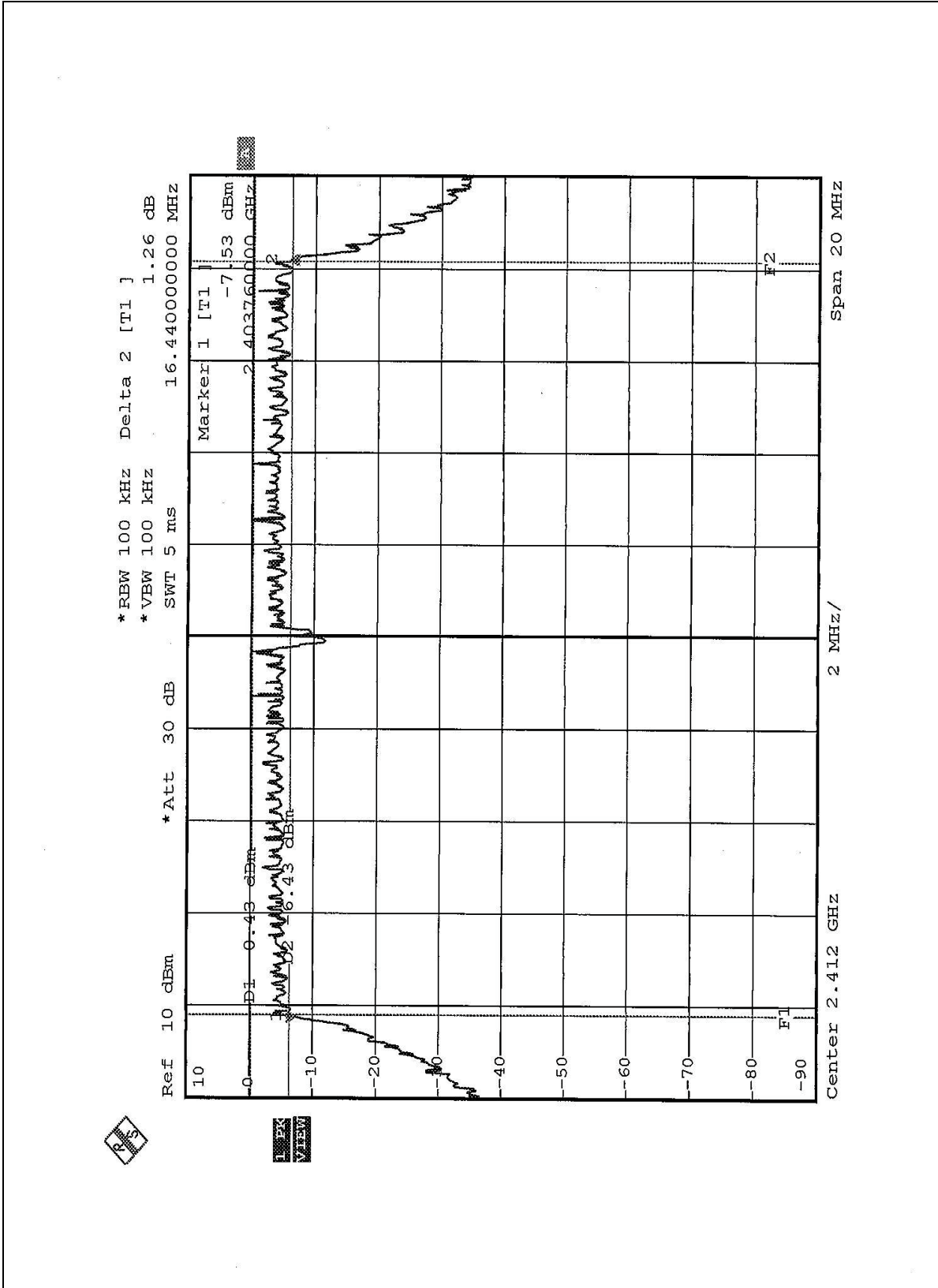


EUT	Wireless PCI Adapter	MODEL	F5D7001
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	23 deg. C, 67% RH, 991 hPa
PA	2	TESTED BY	Leo Hung

CHANNEL	CHANNEL FREQUENCY (MHz)	6 dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS/FAIL
1	2412	16.44	0.5	PASS
6	2437	16.40	0.5	PASS
11	2462	16.44	0.5	PASS
6 (Turbo)	2437	32.72	0.5	PASS

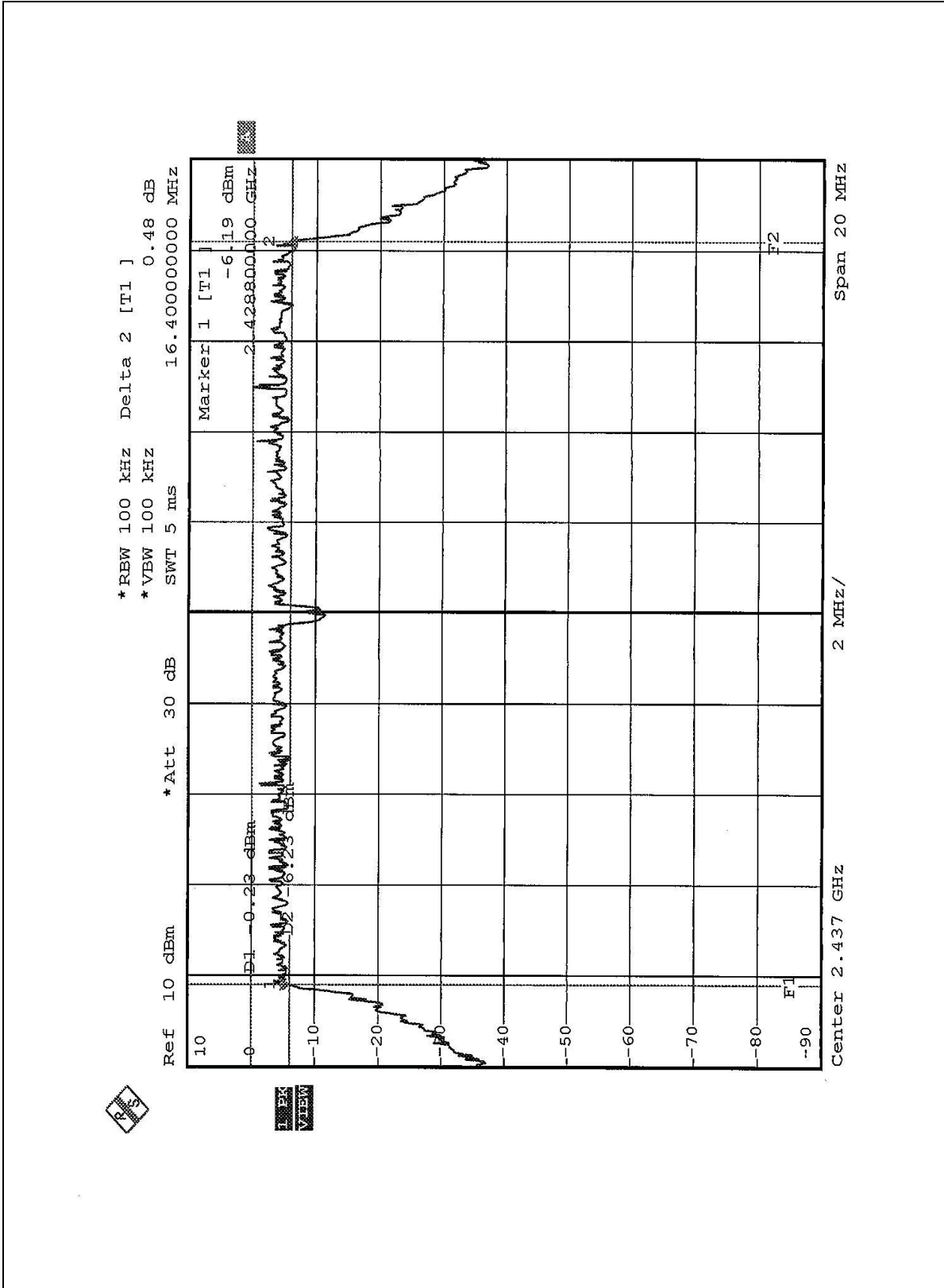


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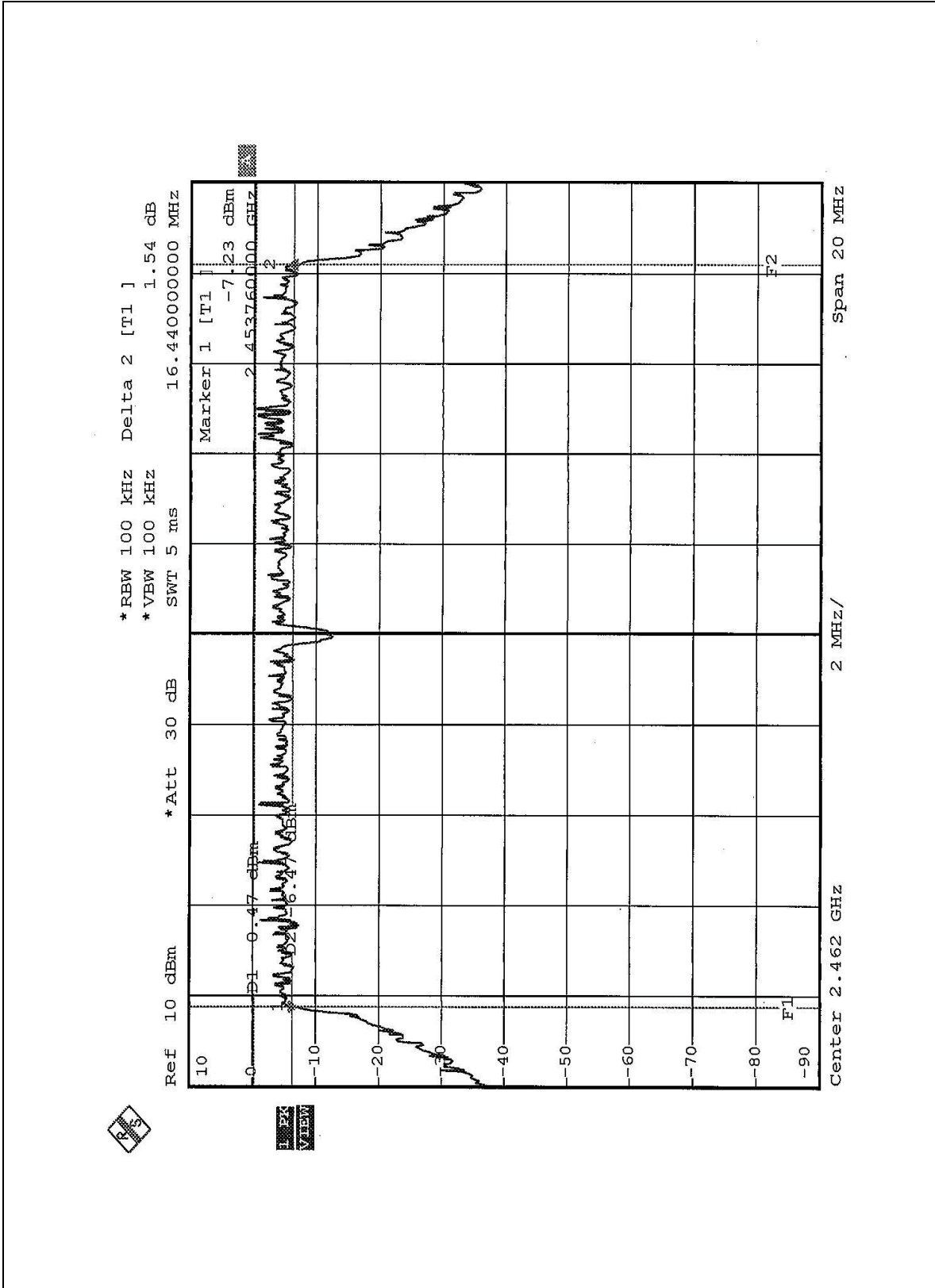


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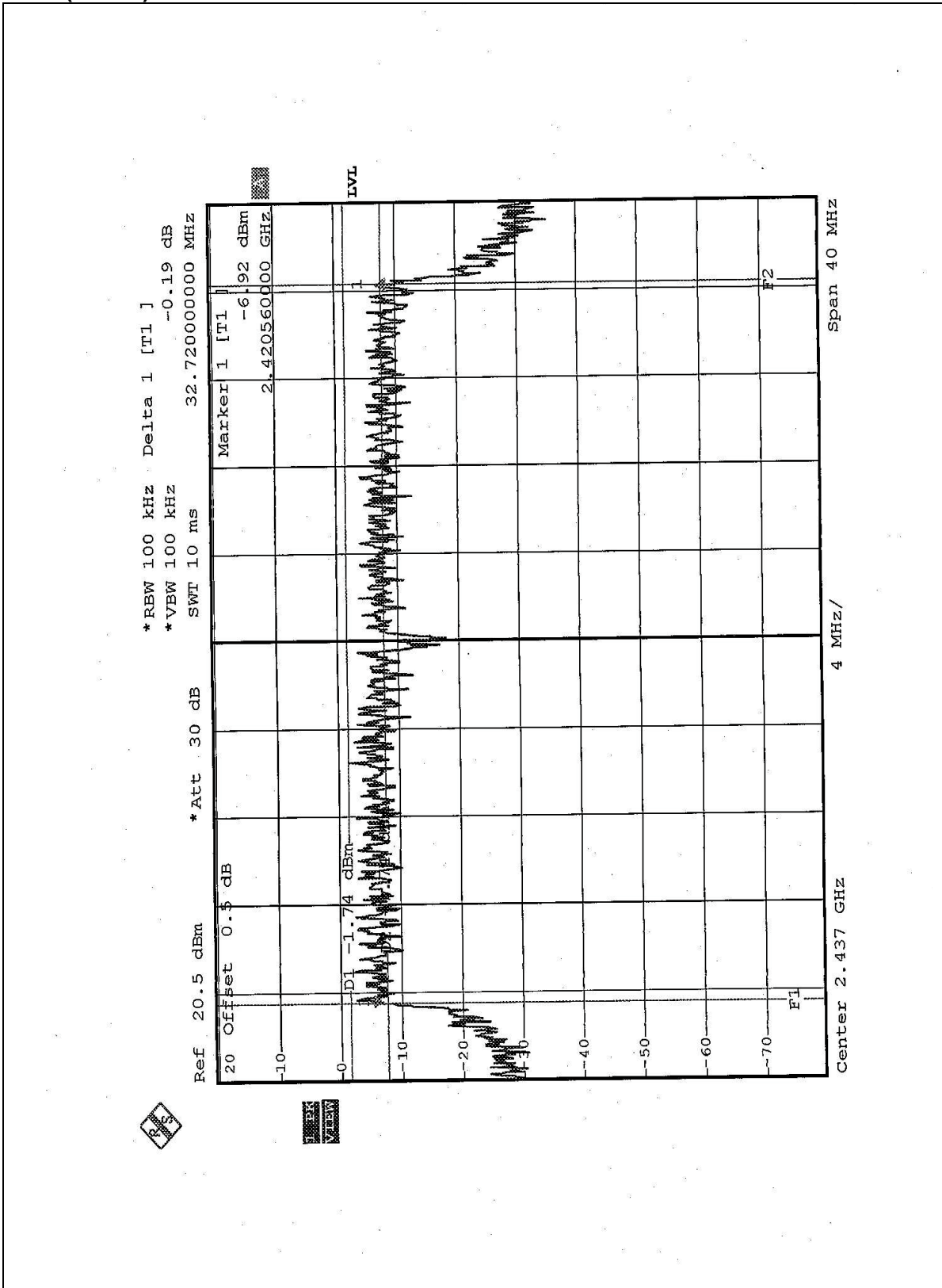


CH11





CH6 (Turbo)





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, 2005
AGILENT SIGNAL GENERATOR	E8257C	MY43320668	Dec. 31, 2004
TEKTRONIX OSCILLOSCOPE	TDS 220	C019167	Feb. 1, 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 peak 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 peak 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 (A)

EUT	Wireless PCI Adapter	MODEL	F5D7001
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	26 deg. C, 67% RH, 991 hPa
PA	1	TESTED BY	Leo Hung

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (mW)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
1	2412	51.286	17.10	30	PASS
6	2437	64.565	18.10	30	PASS
11	2462	52.481	17.20	30	PASS

EUT	Wireless PCI Adapter	MODEL	F5D7001
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	23 deg. C, 67% RH, 991 hPa
PA	2	TESTED BY	Leo Hung

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (mW)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
1	2412	51.286	17.10	30	PASS
6	2437	64.565	18.10	30	PASS
11	2462	52.481	17.20	30	PASS



4.4.8 TEST RESULTS (B)

EUT	Wireless PCI Adapter	MODEL	F5D7001
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	26 deg. C, 67% RH, 991 hPa
PA	1	TESTED BY	Leo Hung

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (mW)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
1	2412	26.303	14.20	30	PASS
6	2437	32.359	15.10	30	PASS
11	2462	25.704	14.10	30	PASS
6 (Turbo)	2437	26.915	14.30	30	PASS

EUT	Wireless PCI Adapter	MODEL	F5D7001
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	23 deg. C, 67% RH, 991 hPa
PA	2	TESTED BY	Leo Hung

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (mW)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
1	2412	26.303	14.20	30	PASS
6	2437	32.359	15.10	30	PASS
11	2462	25.704	14.10	30	PASS
6 (Turbo)	2437	26.915	14.30	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, 2005

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

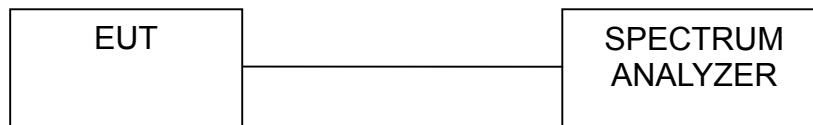
4.5.3 TEST PROCEDURE

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.



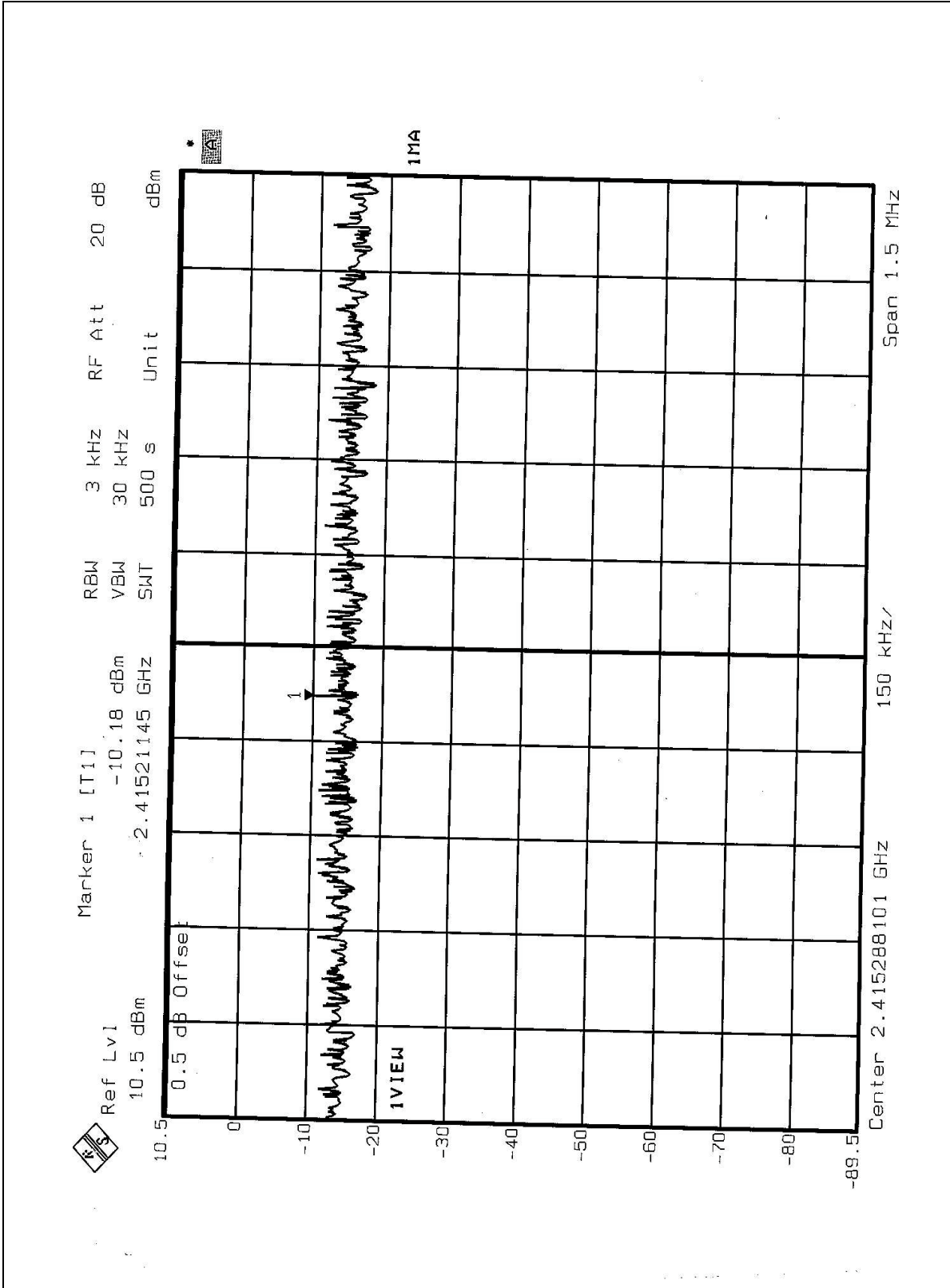
4.5.7 TEST RESULTS (A)

EUT	Wireless PCI Adapter	MODEL	F5D7001
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	26 deg. C, 67% RH, 991 hPa
PA	1	TESTED BY	Leo Hung

CHANNEL NUMBER	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3KHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	2412	-10.18	8	PASS
6	2437	-9.34	8	PASS
11	2462	-10.02	8	PASS

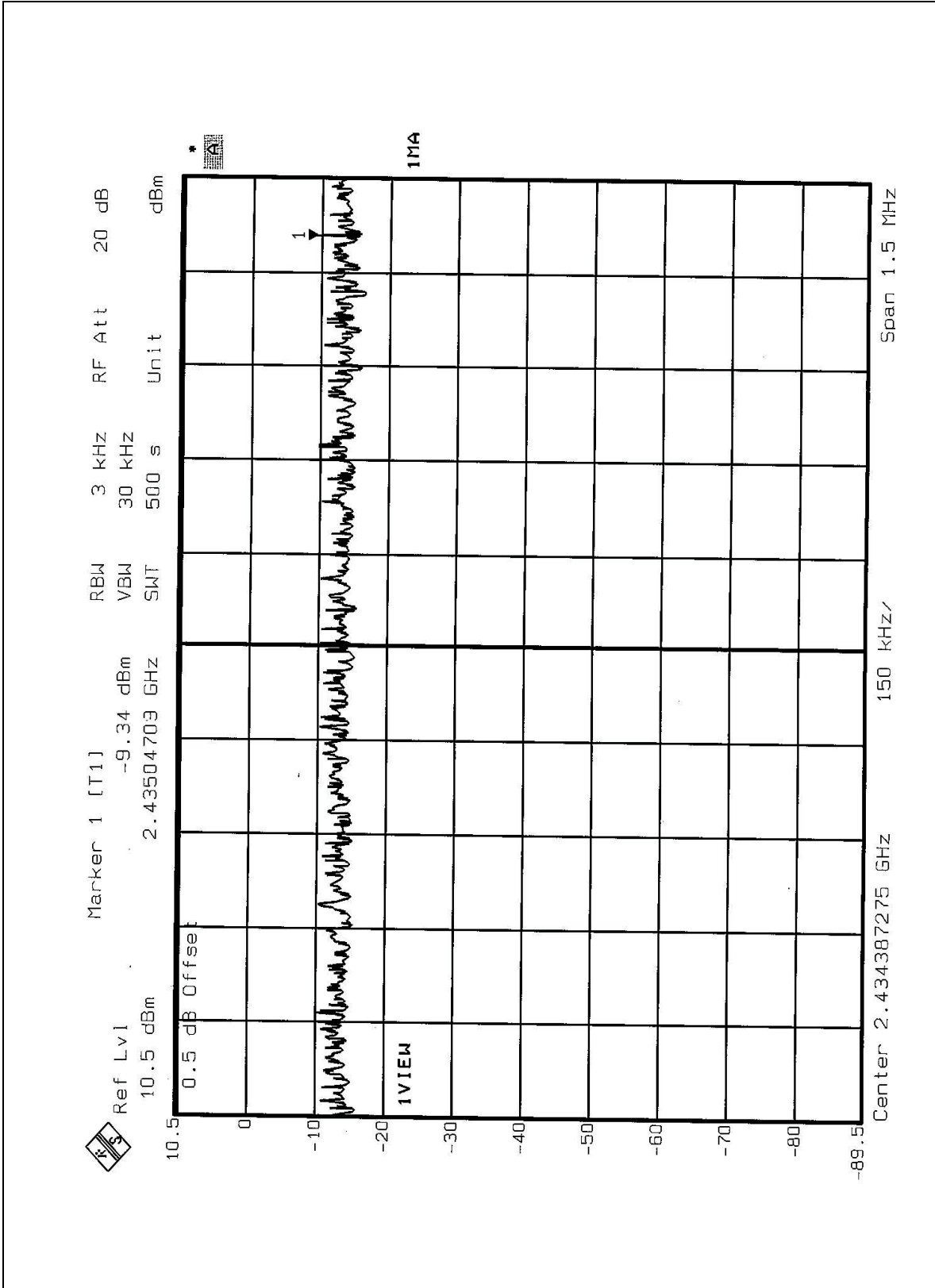


CH1



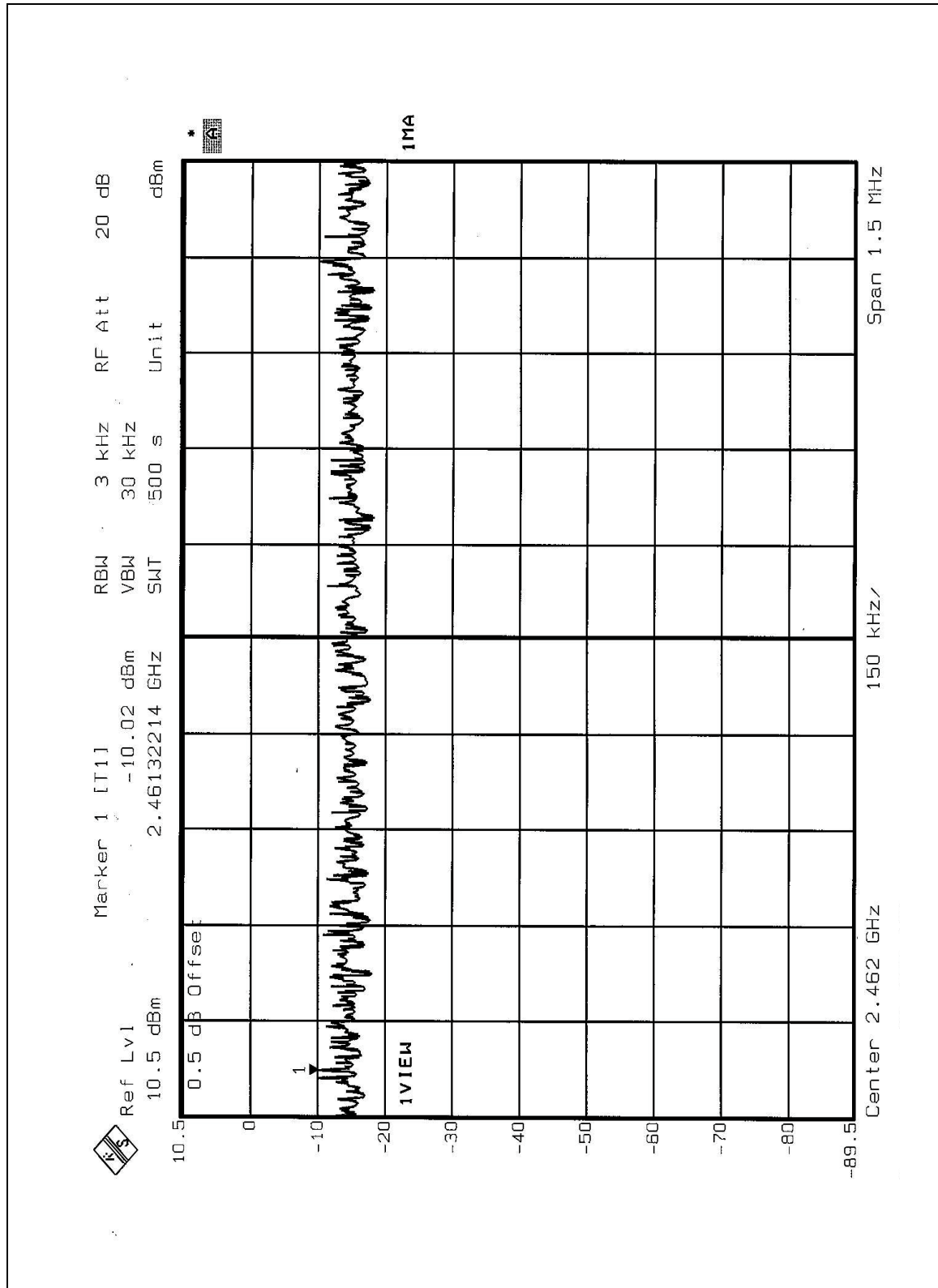


CH6





CH11



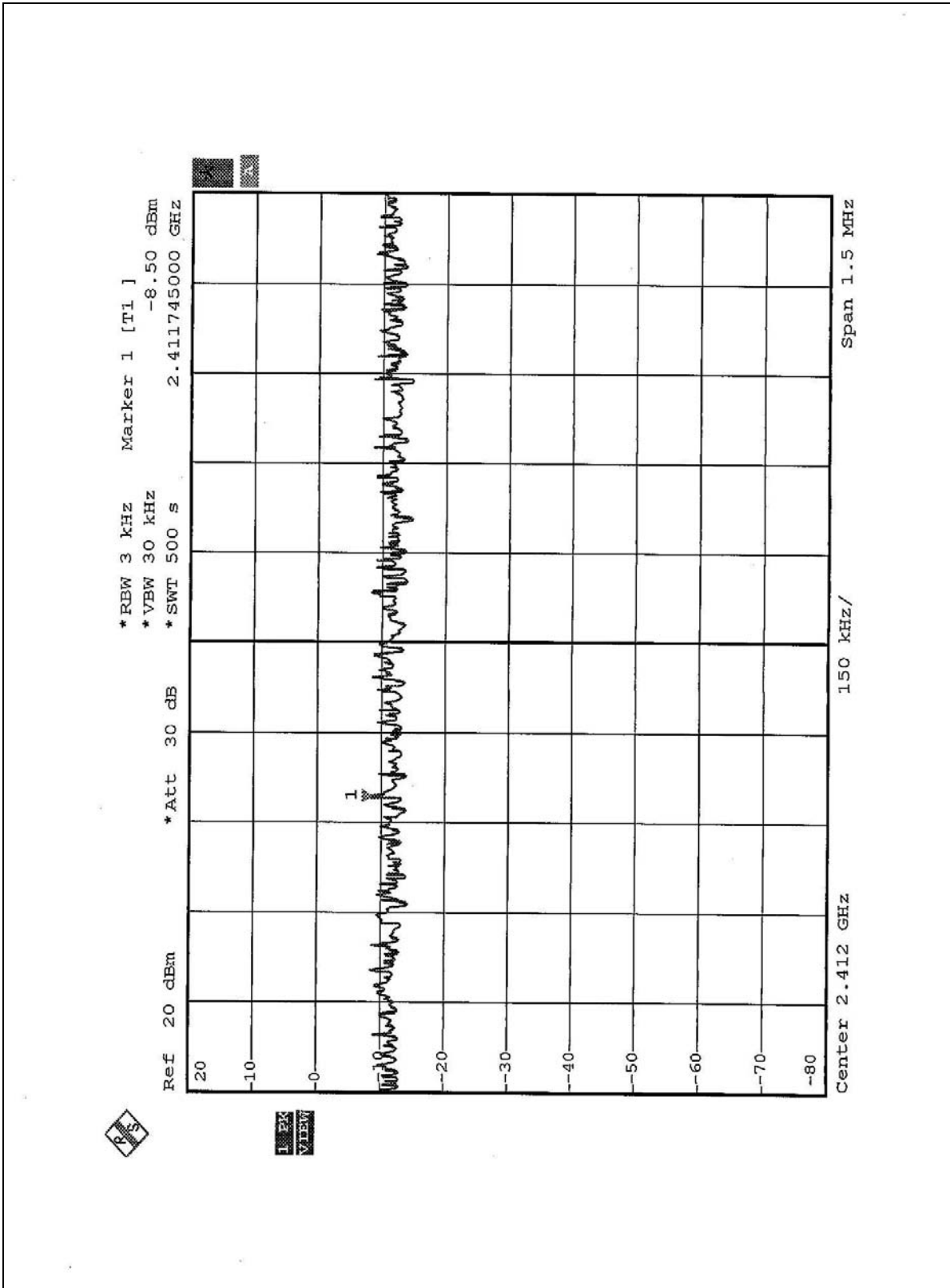


EUT	Wireless PCI Adapter	MODEL	F5D7001
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	23 deg. C, 67% RH, 991 hPa
PA	2	TESTED BY	Leo Hung

CHANNEL NUMBER	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3KHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	2412	-8.50	8	PASS
6	2437	-8.05	8	PASS
11	2462	-8.10	8	PASS

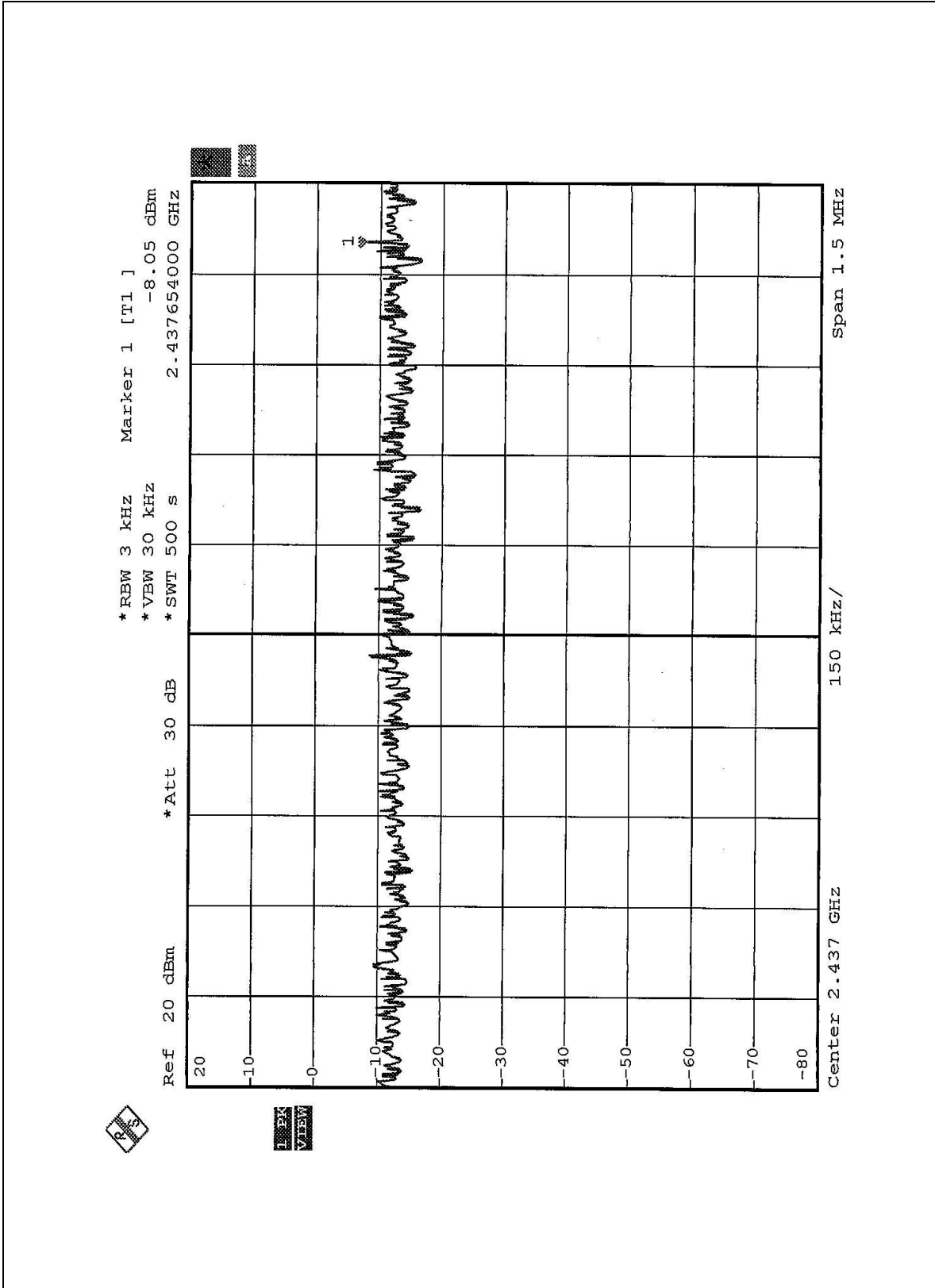


CH1



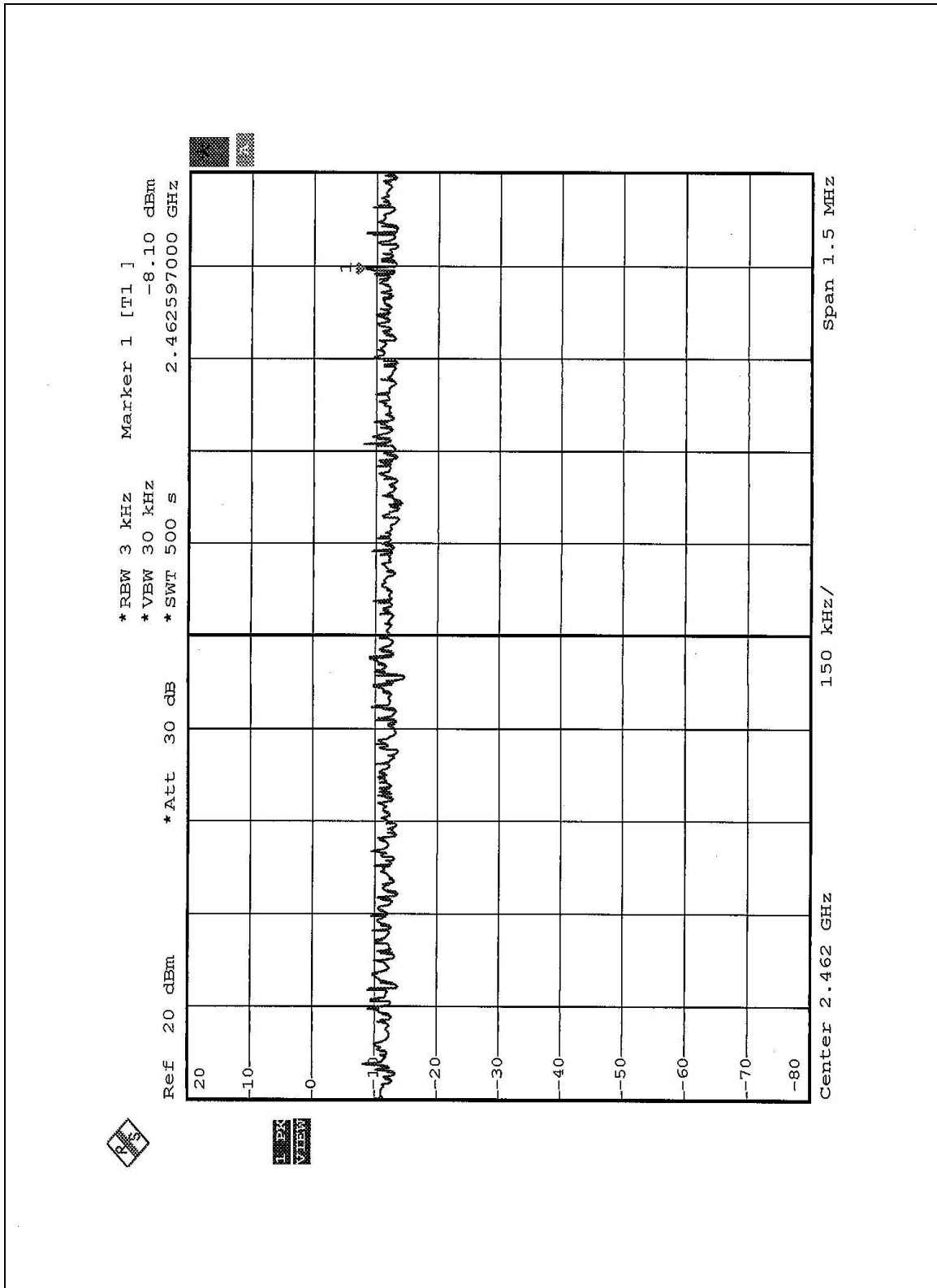


CH6





CH11





4.5.8 TEST RESULTS (B)

EUT	Wireless PCI Adapter	MODEL	F5D7001
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	26 deg. C, 67% RH, 991 hPa
PA	1	TESTED BY	Leo Hung

CHANNEL NUMBER	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3KHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	2412	-13.98	8	PASS
6	2437	-12.71	8	PASS
11	2462	-13.91	8	PASS
6 (Turbo)	2437	-14.20	8	PASS