FCC TEST REPORT

REPORT NO.: RF930727L06
MODEL NO.: WRTA-108GD
RECEIVED: Jul. 16, 2004
TESTED: Jul. 16 ~ Aug. 03, 2004

APPLICANT: Gemtek Technology Co., Ltd.

ADDRESS: No.1, Jen Ai Road, Hsinchu Industrial Park, Hukou Hsinchu, Taiwan, R.O.C. 303

ISSUED BY: Advance Data Technology Corporation

LAB LOCATION: No. 19, Hwa Ya 2nd Rd., Wen Hwa Tsuen, Kwei Shan Hsiang, Taoyuan Hsien 333, Taiwan, R.O.C.

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TABLE OF CONTENTS

1 CERTIFICATION

PRODUCT :	802.11g Wireless Broadband Router
MODEL NO.:	WRTA-108GD
BRAND:	Dell
APPLICANT :	Gemtek Technology Co., Ltd.
TESTED:	Jul. 16 ~ Aug. 03, 2004
TEST ITEM:	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 : Wendy Liao , **DATE:** Aug. 04, 2004
(Wendy Liao)

TECHNICAL ACCEPTANCE : Gary Chang , **DATE:** Aug. 04, 2004
Responsible for RF (Gary Chang)

APPROVED BY : , **DATE:** Aug. 04, 2004
(Cody Chang, Supervisor)

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 –11.83dB at 0.158MHz.
15.247(a)(2)	Spectrum Bandwidth of a Direct Sequence Spread Spectrum System Limit : min. 500kHz	PASS	Meet the requirement of limit.
15.247(b)	Maximum Peak Output Power Limit: max. 30dBm	PASS	Meet the requirement of limit.
15.247(c)	Transmitter Radiated Emissions Limit: Table 15.209	PASS	Meet the requirement of limit. Minimum passing margin is –1.00dB at 2688.00MHz.
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.

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	3.73 dB
	200MHz ~1000MHz	3.74 dB
	1GHz ~ 18GHz	2.20 dB
	18GHz ~ 40GHz	1.88 dB

3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

PRODUCT	802.11g Wireless Broadband Router
MODEL NO.	WRTA-108GD
POWER SUPPLY	5Vdc, 12Vdc from power adapter
MODULATION TYPE	BPSK, QPSK, CCK, 16QAM, 64QAM
MODULATION TECHNOLOGY	DSSS, OFDM
TRANSFER RATE	802.11b:11/5.5/2/1Mbps 802.11g: 54/48/36/24/18/12/9/6Mbps
FREQUENCY RANGE	2412MHz ~ 2462MHz
NUMBER OF CHANNEL	11
MAXIMUM OUTPUT POWER	18dBm
ANTENNA TYPE	Dipole antenna with 2.0dBi gain
DATA CABLE	NA
I/O PORTS	RJ45
ASSOCIATED DEVICES	NA

NOTE:

1. The EUT were powered by the following adapter :

BRAND:	DELTA ELECTRONICS, INC.
MODEL :	ADP-10SB REV. B
INPUT :	100-240Vac, 400mA, 50-60Hz
OUTPUT :	5.0Vdc, 2000mA

BRAND:	POTRANS ELECTRICAL CORPORATION
MODEL :	WD411200500
INPUT :	120Vac, 60Hz, 11W
OUTPUT :	12.0Vdc, 500mA

BRAND:	HON-KWANG
MODEL :	D7-10-01
INPUT :	120Vac, 60Hz, 18W
OUTPUT :	12Vdc 500mA

2. The EUT operates in the 2.4GHz frequency spectrum with throughput of up to 54Mbps.
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

Eleven channels are 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, worst case one, 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. Two test results were presented in the following sections, the test result A was for CCK technique, the test result B was for OFDM technique.
5. For Conducted emission and Rediated emission below 1GHz test, three test modes presented in following sections, the test mode 1 is for adapter model ADP-10SB REV. B, the test mode 2 is for adapter model WD411200500 and the test mode 3 is for adapter model D7-10-01.

3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a 802.11g Wireless Broadband Router. 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

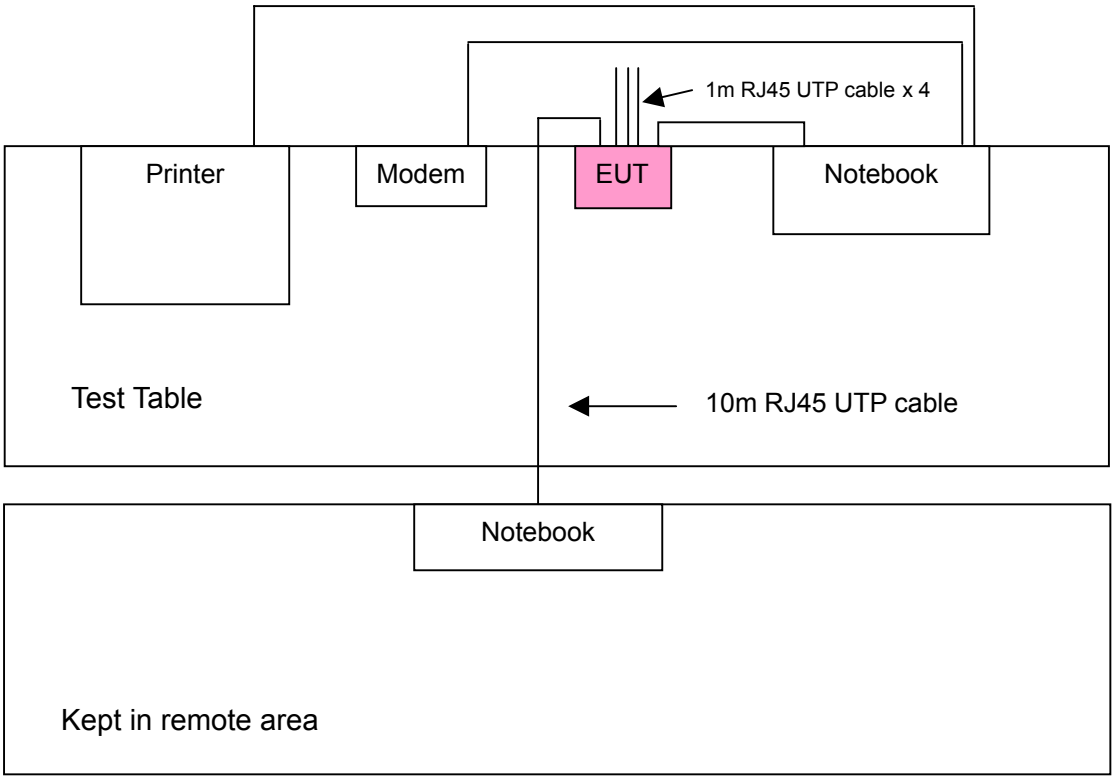
The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	NOTEBOOK COMPUTER	DELL	PP05L	20838027664	E2K24CLNS
2	NOTEBOOK COMPUTER	DELL	PP05L	16484462992	E2K24CLNS
3	MODEM	ACEEX	1414V/3	0401008269	IFAXDM1414
4	PRINTER	EPSON	LQ-300+	DCGY054147	FCC DoC Approved

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	NA
2	NA
3	1.2m braid shielded wire, terminated with DB25 and Centronics connector via metallic frame, w/o core
4	1.2 m braid shielded wire, terminated with DB25 and DB9 connector via metallic frame, w/o core.

NOTE: 1. All power cords of the above support units are non shielded (1.8m).
2. Item 2 acted as a communication partner to transfer data.

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 0.5-5 5-30	66 to 56 56 60	56 to 46 46 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	100291	Dec. 12, 2004
RF signal cable Woken	5D-FB	Cable-HYC01-01	Mar. 02, 2005
LISN ROHDE & SCHWARZ	ESH3-Z5	847265/023	Oct. 22, 2004
LISN ROHDE & SCHWARZ	ESH3-Z5	100220	Dec. 10, 2004
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 1.
3. The VCCI Site Registration No. is C-2040.Hwa Ya Global Certification Office

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.

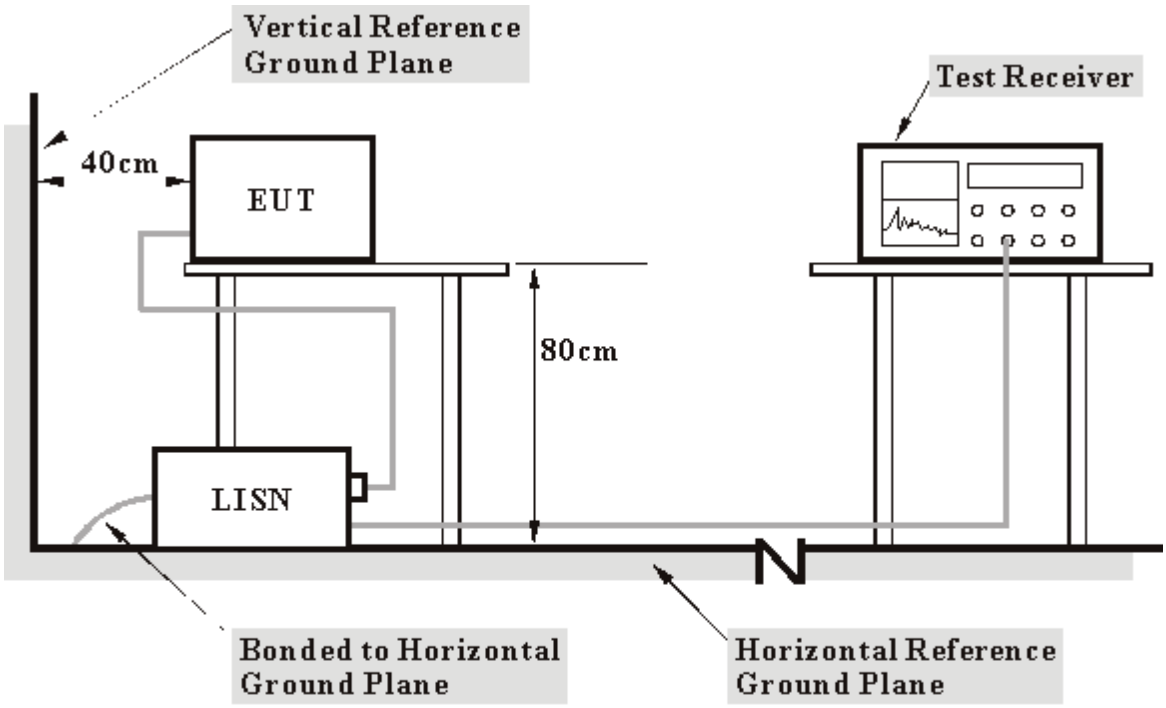
b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

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

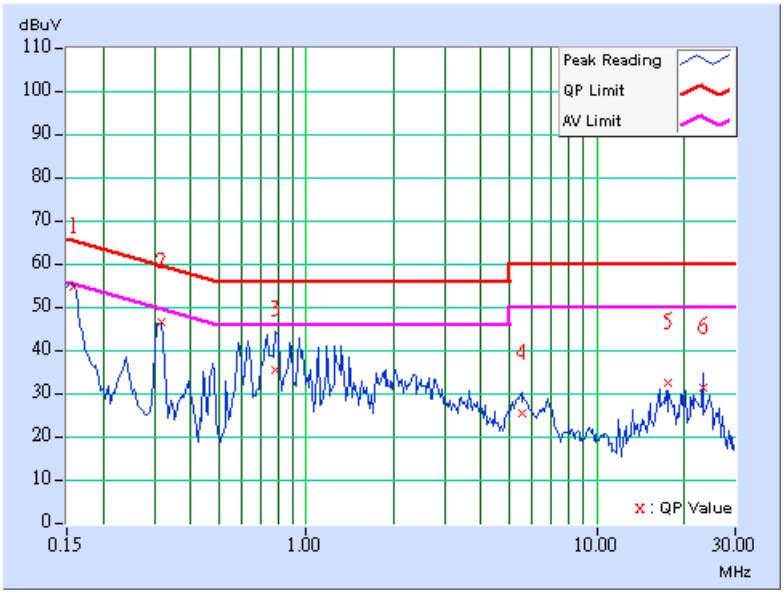
a. Connected the EUT to a Notebook system by RJ 45 cable and placed on a testing table.
b. The Notebook system ran a test program (provided by manufacturer) via a RJ 45 cable to enable EUT under transmission/receiving condition continuously at specific channel frequency.
c. The Notebook system show “H” messages on its screen.
d. The Notebook sent “H” messages to modem.
e. The Notebook sent "H" messages to printer, and the printer prints them on paper.
f. Repeated c ~e.

4.1.7 TEST RESULTS

EUT	802.11g Wireless Broadband Router	**MODEL**	WRTA-108GD
CHANNEL	CH01	**6dB BANDWIDTH**	9kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**PHASE**	Line (L)
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH, 991hPa	**TEST MODE**	Mode 1
TESTED BY	Leo Hung		

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	**0.158**	**0.10**	**53.64**	**-**	**53.74**	**-**	**65.58**	**55.58**	**-11.83**	**-**
2	0.316	0.11	45.55	-	45.66	-	59.80	49.80	-14.14	-
3	0.783	0.20	34.39	-	34.59	-	56.00	46.00	-21.41	-
4	5.504	0.38	24.32	-	24.70	-	60.00	50.00	-35.30	-
5	17.695	0.82	31.65	-	32.47	-	60.00	50.00	-27.53	-
6	23.129	1.07	30.26	-	31.33	-	60.00	50.00	-28.67	-

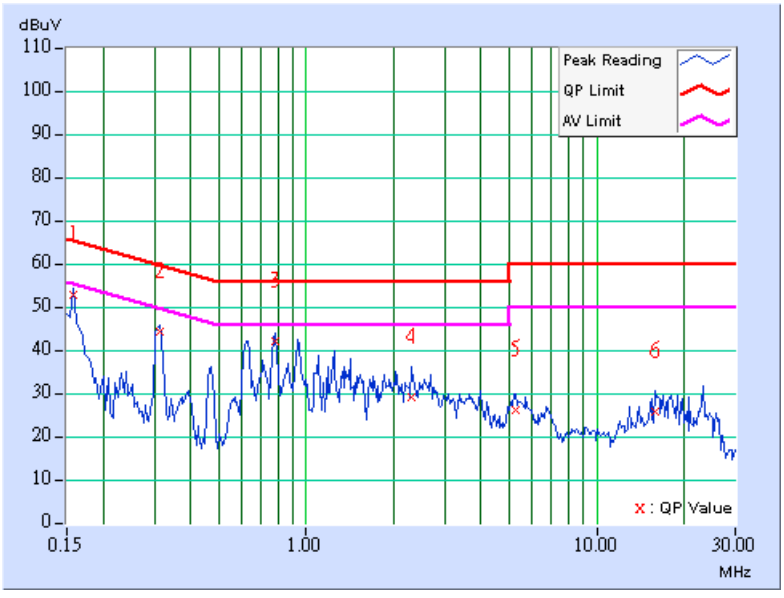
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission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



EUT	802.11g Wireless Broadband Router	**MODEL**	WRTA-108GD
CHANNEL	CH01	**6dB BANDWIDTH**	9kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**PHASE**	Neutral (N)
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH, 991hPa	**TEST MODE**	Mode 1
TESTED BY	Leo Hung		

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	0.158	0.10	52.56	-	52.66	-	65.58	55.58	-12.92	-
2	0.314	0.11	44.01	-	44.12	-	59.86	49.86	-15.74	-
3	0.783	0.19	41.81	-	42.00	-	56.00	46.00	-14.00	-
4	2.301	0.26	28.54	-	28.80	-	56.00	46.00	-27.20	-
5	5.234	0.36	25.55	-	25.91	-	60.00	50.00	-34.09	-
6	15.922	0.58	25.41	-	25.99	-	60.00	50.00	-34.01	-

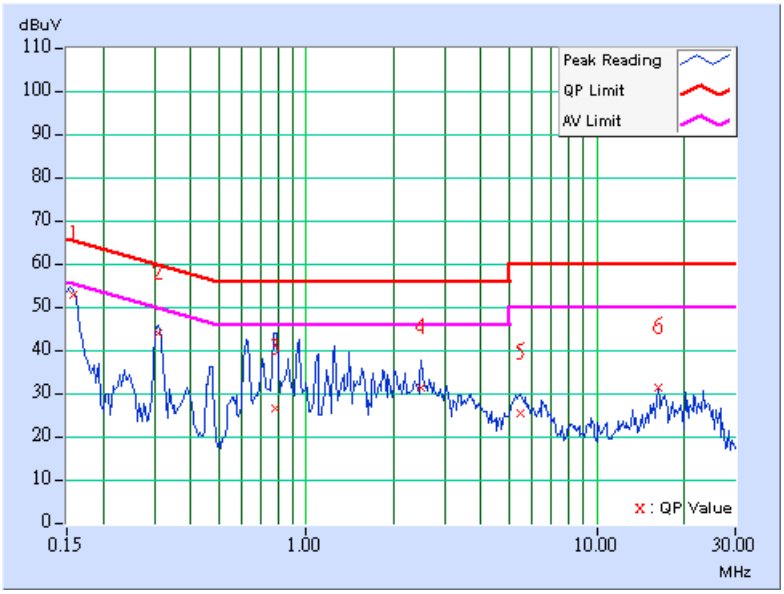
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission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



EUT	802.11g Wireless Broadband Router	**MODEL**	WRTA-108GD
CHANNEL	CH06	**6dB BANDWIDTH**	9kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**PHASE**	Line (L)
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH, 991hPa	**TEST MODE**	Mode 1
TESTED BY	Leo Hung		

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	0.158	0.10	52.30	-	52.40	-	65.58	55.58	-13.17	-
2	0.310	0.11	43.35	-	43.46	-	59.97	49.97	-16.51	-
3	0.779	0.20	25.82	-	26.02	-	56.00	46.00	-29.98	-
4	2.488	0.27	30.66	-	30.93	-	56.00	46.00	-25.07	-
5	5.480	0.38	24.92	-	25.30	-	60.00	50.00	-34.70	-
6	16.227	0.75	30.69	-	31.44	-	60.00	50.00	-28.56	-

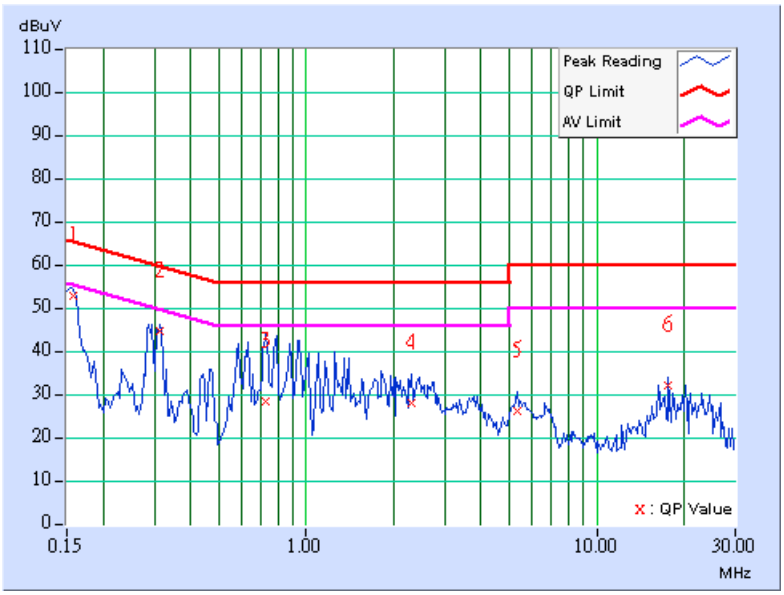
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission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



EUT	802.11g Wireless Broadband Router	**MODEL**	WRTA-108GD
CHANNEL	CH06	**6dB BANDWIDTH**	9kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**PHASE**	Neutral (N)
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH, 991hPa	**TEST MODE**	Mode 1
TESTED BY	Leo Hung		

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	0.158	0.10	52.46	-	52.56	-	65.58	55.58	-13.02	-
2	0.314	0.11	44.17	-	44.28	-	59.86	49.86	-15.58	-
3	0.728	0.18	27.90	-	28.08	-	56.00	46.00	-27.92	-
4	2.297	0.26	27.58	-	27.84	-	56.00	46.00	-28.16	-
5	5.301	0.36	25.71	-	26.07	-	60.00	50.00	-33.93	-
6	17.695	0.61	31.71	-	32.32	-	60.00	50.00	-27.68	-

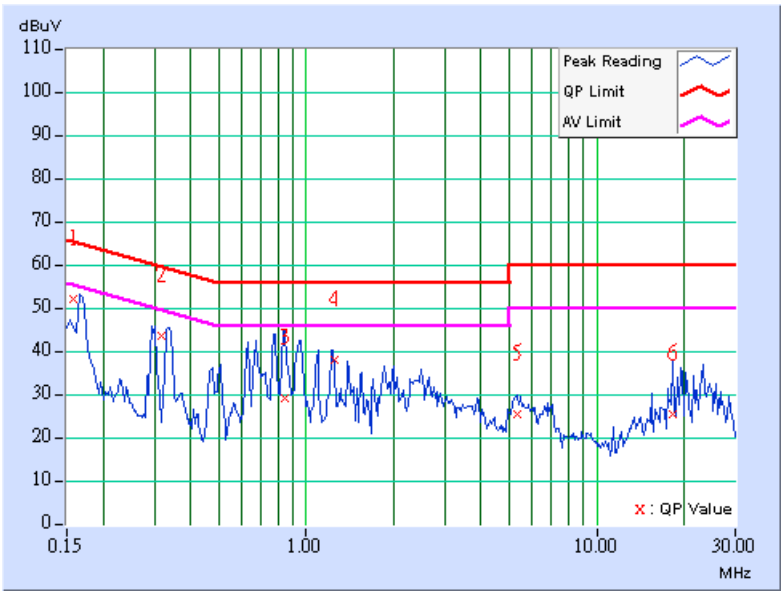
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission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



EUT	802.11g Wireless Broadband Router	**MODEL**	WRTA-108GD
CHANNEL	CH11	**6dB BANDWIDTH**	9kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**PHASE**	Line (L)
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH, 991hPa	**TEST MODE**	Mode 1
TESTED BY	Leo Hung		

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	0.159	0.10	51.75	-	51.85	-	65.53	55.53	-13.68	-
2	0.317	0.11	43.08	-	43.19	-	59.79	49.79	-16.60	-
3	0.848	0.20	28.59	-	28.79	-	56.00	46.00	-27.21	-
4	1.247	0.24	37.68	-	37.92	-	56.00	46.00	-18.08	-
5	5.355	0.36	24.86	-	25.22	-	60.00	50.00	-34.78	-
6	18.242	0.62	25.06	-	25.68	-	60.00	50.00	-34.32	-

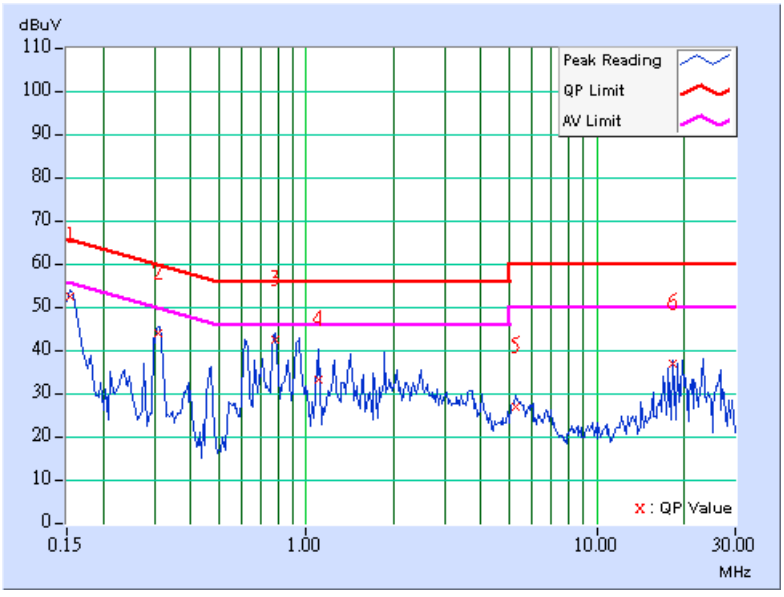
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission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



EUT	802.11g Wireless Broadband Router	**MODEL**	WRTA-108GD
CHANNEL	CH11	**6dB BANDWIDTH**	9kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**PHASE**	Neutral (N)
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH, 991hPa	**TEST MODE**	Mode 1
TESTED BY	Leo Hung		

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	0.154	0.10	51.90	-	52.00	-	65.79	55.79	-13.79	-
2	0.310	0.11	43.37	-	43.48	-	59.97	49.97	-16.49	-
3	0.779	0.19	41.91	-	42.10	-	56.00	46.00	-13.90	-
4	1.109	0.24	32.72	-	32.96	-	56.00	46.00	-23.04	-
5	5.254	0.36	26.54	-	26.90	-	60.00	50.00	-33.10	-
6	18.242	0.62	36.35	-	36.97	-	60.00	50.00	-23.03	-

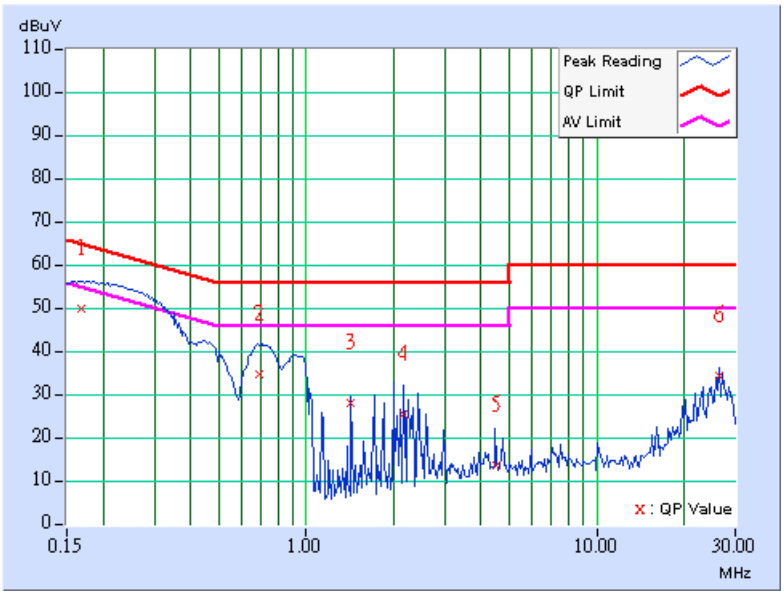
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission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



EUT	802.11g Wireless Broadband Router	**MODEL**	WRTA-108GD
CHANNEL	CH01	**6dB BANDWIDTH**	9kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**PHASE**	Line (L)
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH, 991hPa	**TEST MODE**	Mode 2
TESTED BY	Leo Hung		

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	0.169	0.10	48.89	-	48.99	-	65.02	55.02	-16.03	-
2	0.693	0.18	33.43	-	33.61	-	56.00	46.00	-22.39	-
3	1.430	0.25	26.98	-	27.23	-	56.00	46.00	-28.77	-
4	2.163	0.26	24.24	-	24.50	-	56.00	46.00	-31.50	-
5	4.492	0.33	12.35	-	12.68	-	56.00	46.00	-43.32	-
6	26.547	1.21	33.31	-	34.52	-	60.00	50.00	-25.48	-

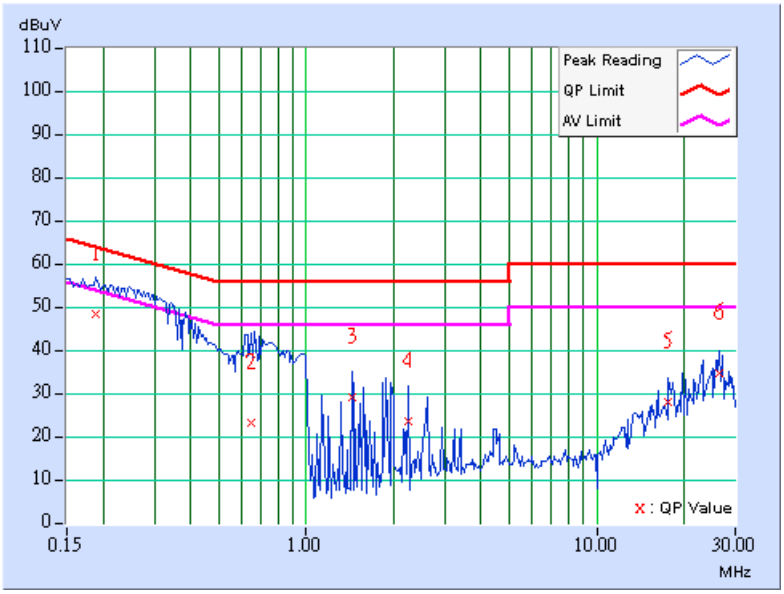
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission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



EUT	802.11g Wireless Broadband Router	**MODEL**	WRTA-108GD
CHANNEL	CH01	**6dB BANDWIDTH**	9kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**PHASE**	Neutral (N)
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH, 991hPa	**TEST MODE**	Mode 2
TESTED BY	Leo Hung		

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	48.01	-	48.11	-	64.08	54.08	-15.97	-
2	0.646	0.16	22.60	-	22.76	-	56.00	46.00	-33.24	-
3	1.434	0.24	28.55	-	28.79	-	56.00	46.00	-27.21	-
4	2.258	0.26	23.12	-	23.38	-	56.00	46.00	-32.62	-
5	17.695	0.61	27.33	-	27.94	-	60.00	50.00	-32.06	-
6	26.488	0.68	34.16	-	34.84	-	60.00	50.00	-25.16	-

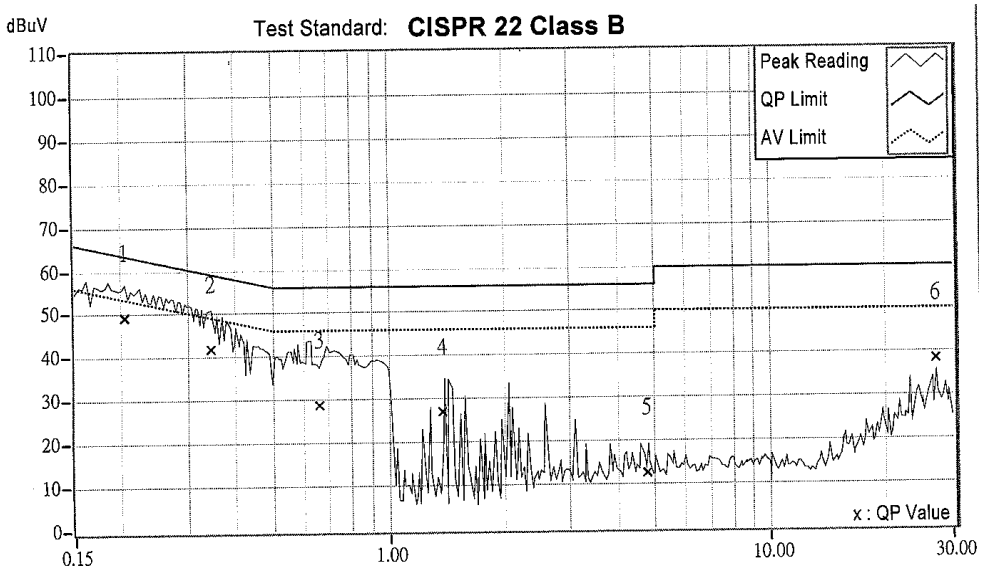
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission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



EUT	802.11g Wireless Broadband Router	**MODEL**	WRTA-108GD
CHANNEL	CH06	**6dB BANDWIDTH**	9kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**PHASE**	Line (L)
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH, 991hPa	**TEST MODE**	Mode 2
TESTED BY	Leo Hung		

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	0.205	0.10	47.93	-	48.03	-	63.42	53.42	-15.39	-
2	0.343	0.11	40.59	-	40.70	-	59.12	49.12	-18.42	-
3	0.655	0.17	27.75	-	27.92	-	56.00	46.00	-28.08	-
4	1.383	0.25	25.79	-	26.04	-	56.00	46.00	-29.96	-
5	4.782	0.35	11.48	-	11.83	-	56.00	46.00	-44.17	-
6	27.160	1.23	37.29	-	38.52	-	60.00	50.00	-21.48	-

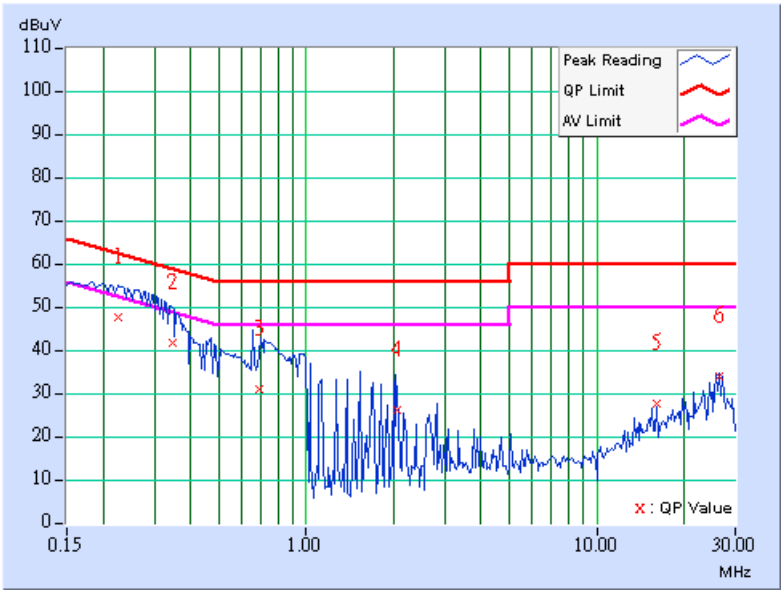
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission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



EUT	802.11g Wireless Broadband Router	**MODEL**	WRTA-108GD
CHANNEL	CH06	**6dB BANDWIDTH**	9kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**PHASE**	Neutral (N)
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH, 991hPa	**TEST MODE**	Mode 2
TESTED BY	Leo Hung		

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	0.224	0.10	46.92	-	47.02	-	62.66	52.66	-15.64	-
2	0.347	0.11	41.25	-	41.36	-	59.03	49.03	-17.67	-
3	0.692	0.17	30.35	-	30.52	-	56.00	46.00	-25.48	-
4	2.065	0.25	25.77	-	26.02	-	56.00	46.00	-29.98	-
5	16.168	0.58	27.25	-	27.83	-	60.00	50.00	-32.17	-
6	26.547	0.68	33.33	-	34.01	-	60.00	50.00	-25.99	-

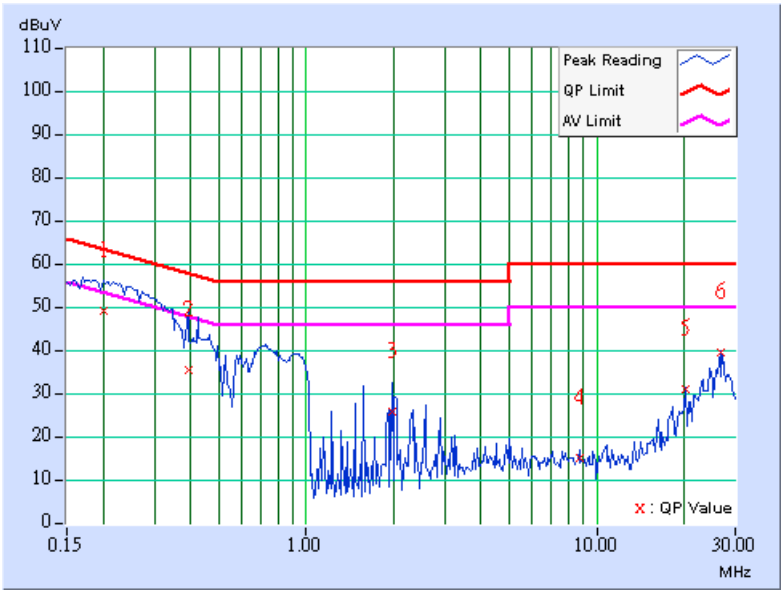
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission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



EUT	802.11g Wireless Broadband Router	**MODEL**	WRTA-108GD
CHANNEL	CH11	**6dB BANDWIDTH**	9kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**PHASE**	Line (L)
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH, 991hPa	**TEST MODE**	Mode 2
TESTED BY	Leo Hung		

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	0.201	0.10	48.15	-	48.25	-	63.58	53.58	-15.33	-
2	0.392	0.11	34.40	-	34.51	-	58.02	48.02	-23.50	-
3	1.969	0.26	24.67	-	24.93	-	56.00	46.00	-31.07	-
4	8.715	0.49	14.05	-	14.54	-	60.00	50.00	-45.46	-
5	20.258	0.93	29.77	-	30.70	-	60.00	50.00	-29.30	-
6	26.609	1.21	38.54	-	39.75	-	60.00	50.00	-20.25	-

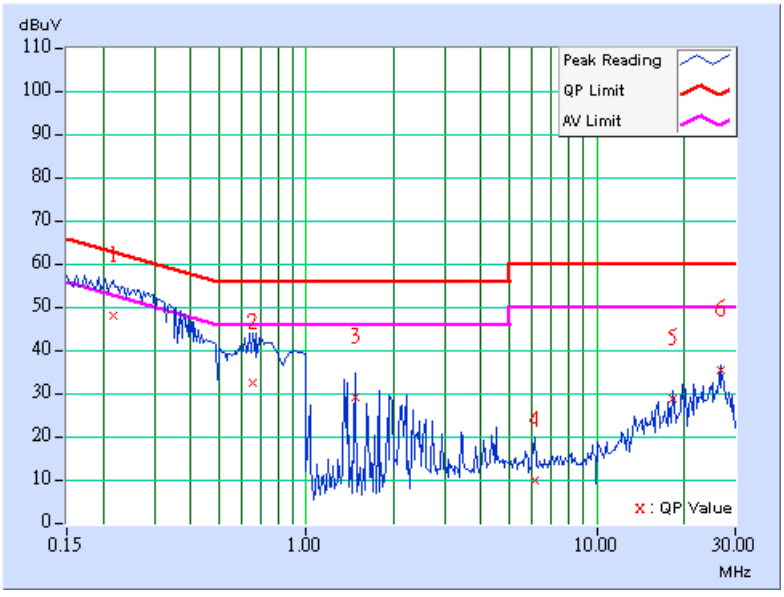
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission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



EUT	802.11g Wireless Broadband Router	**MODEL**	WRTA-108GD
CHANNEL	CH11	**6dB BANDWIDTH**	9kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**PHASE**	Neutral (N)
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH, 991hPa	**TEST MODE**	Mode 2
TESTED BY	Leo Hung		

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	0.216	0.10	47.49	-	47.59	-	62.96	52.96	-15.36	-
2	0.654	0.16	32.06	-	32.22	-	56.00	46.00	-23.78	-
3	1.473	0.24	28.54	-	28.78	-	56.00	46.00	-27.22	-
4	6.094	0.39	9.24	-	9.63	-	60.00	50.00	-50.37	-
5	18.242	0.62	28.37	-	28.99	-	60.00	50.00	-31.01	-
6	26.609	0.67	34.70	-	35.37	-	60.00	50.00	-24.63	-

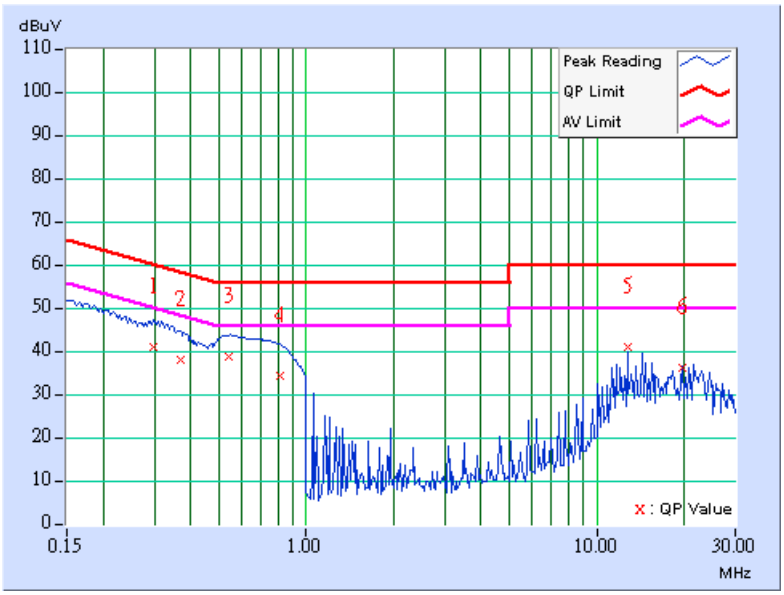
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission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



EUT	802.11g Wireless Broadband Router	**MODEL**	WRTA-108GD
CHANNEL	CH01	**6dB BANDWIDTH**	9kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**PHASE**	Line (L)
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH, 991hPa	**TEST MODE**	Mode 3
TESTED BY	Rush Kao		

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	0.298	0.11	40.34	-	40.45	-	60.29	50.29	-19.84	-
2	0.369	0.11	37.28	-	37.39	-	58.53	48.53	-21.14	-
3	0.541	0.15	38.08	-	38.23	-	56.00	46.00	-17.77	-
4	0.810	0.21	33.37	-	33.58	-	56.00	46.00	-22.42	-
5	12.809	0.63	40.03	-	40.66	-	60.00	50.00	-19.34	-
6	19.711	0.91	35.31	-	36.22	-	60.00	50.00	-23.78	-

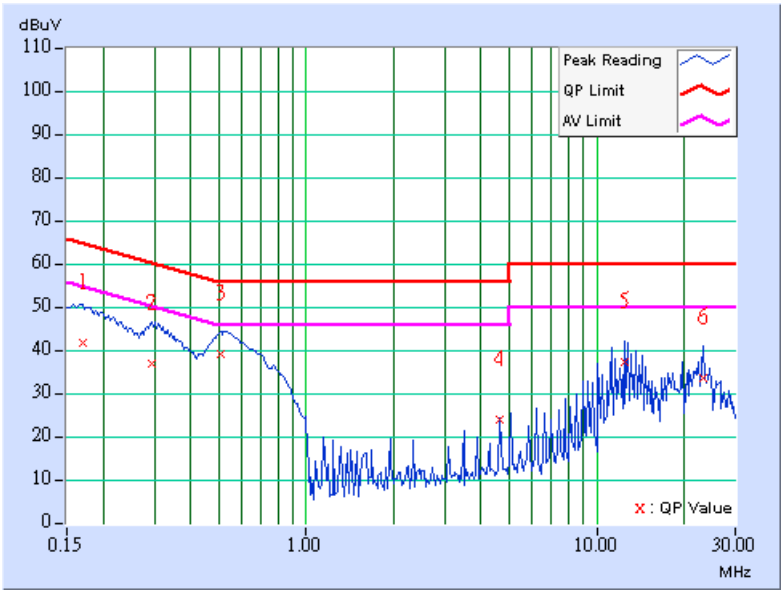
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission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



EUT	802.11g Wireless Broadband Router	**MODEL**	WRTA-108GD
CHANNEL	CH01	**6dB BANDWIDTH**	9kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**PHASE**	Neutral (N)
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH, 991hPa	**TEST MODE**	Mode 3
TESTED BY	Rush Kao		

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	0.170	0.10	41.06	-	41.16	-	64.98	54.98	-23.83	-
2	0.295	0.11	36.30	-	36.41	-	60.40	50.40	-23.99	-
3	0.509	0.14	38.40	-	38.54	-	56.00	46.00	-17.46	-
4	4.656	0.33	23.52	-	23.85	-	56.00	46.00	-32.15	-
5	12.418	0.52	36.84	-	37.36	-	60.00	50.00	-22.64	-
6	23.129	0.68	32.97	-	33.65	-	60.00	50.00	-26.35	-

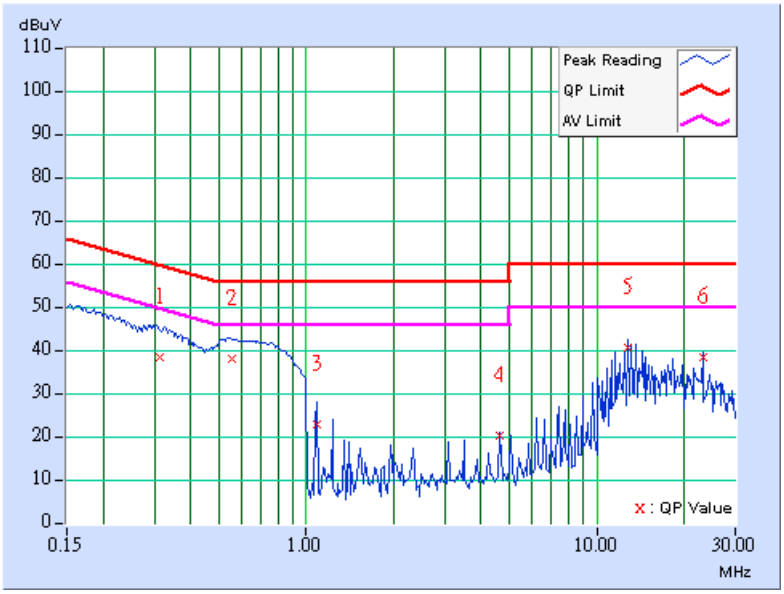
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission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



EUT	802.11g Wireless Broadband Router	**MODEL**	WRTA-108GD
CHANNEL	CH06	**6dB BANDWIDTH**	9kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**PHASE**	Line (L)
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH, 991hPa	**TEST MODE**	Mode 3
TESTED BY	Rush Kao		

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	0.315	0.11	37.55	-	37.66	-	59.83	49.83	-22.18	-
2	0.557	0.15	36.97	-	37.12	-	56.00	46.00	-18.88	-
3	1.094	0.25	21.79	-	22.04	-	56.00	46.00	-33.96	-
4	4.656	0.34	19.35	-	19.69	-	56.00	46.00	-36.31	-
5	12.801	0.63	39.63	-	40.26	-	60.00	50.00	-19.74	-
6	23.129	1.07	37.51	-	38.58	-	60.00	50.00	-21.42	-

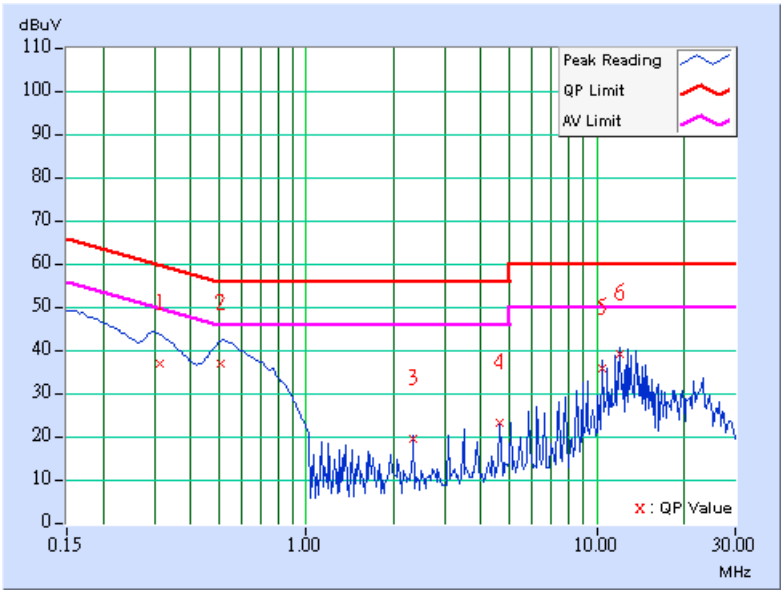
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission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



EUT	802.11g Wireless Broadband Router	**MODEL**	WRTA-108GD
CHANNEL	CH06	**6dB BANDWIDTH**	9kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**PHASE**	Neutral (N)
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH, 991hPa	**TEST MODE**	Mode 3
TESTED BY	Rush Kao		

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	0.313	0.11	36.64	-	36.75	-	59.90	49.90	-23.16	-
2	0.508	0.14	36.70	-	36.84	-	56.00	46.00	-19.16	-
3	2.328	0.26	19.16	-	19.42	-	56.00	46.00	-36.58	-
4	4.656	0.33	22.85	-	23.18	-	56.00	46.00	-32.82	-
5	10.477	0.50	35.57	-	36.07	-	60.00	50.00	-23.93	-
6	12.027	0.52	38.89	-	39.41	-	60.00	50.00	-20.59	-

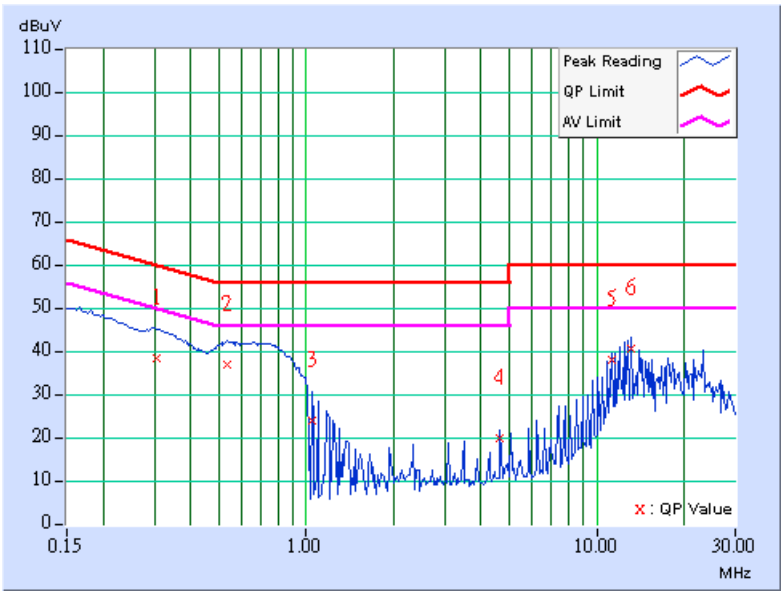
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission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



EUT	802.11g Wireless Broadband Router	**MODEL**	WRTA-108GD
CHANNEL	CH11	**6dB BANDWIDTH**	9kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**PHASE**	Line (L)
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH, 991hPa	**TEST MODE**	Mode 3
TESTED BY	Rush Kao		

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	0.306	0.11	37.87	-	37.98	-	60.07	50.07	-22.10	-
2	0.533	0.14	36.41	-	36.55	-	56.00	46.00	-19.45	-
3	1.043	0.25	23.32	-	23.57	-	56.00	46.00	-32.43	-
4	4.656	0.34	19.25	-	19.59	-	56.00	46.00	-36.41	-
5	11.250	0.57	37.34	-	37.91	-	60.00	50.00	-22.09	-
6	13.191	0.64	40.10	-	40.74	-	60.00	50.00	-19.26	-

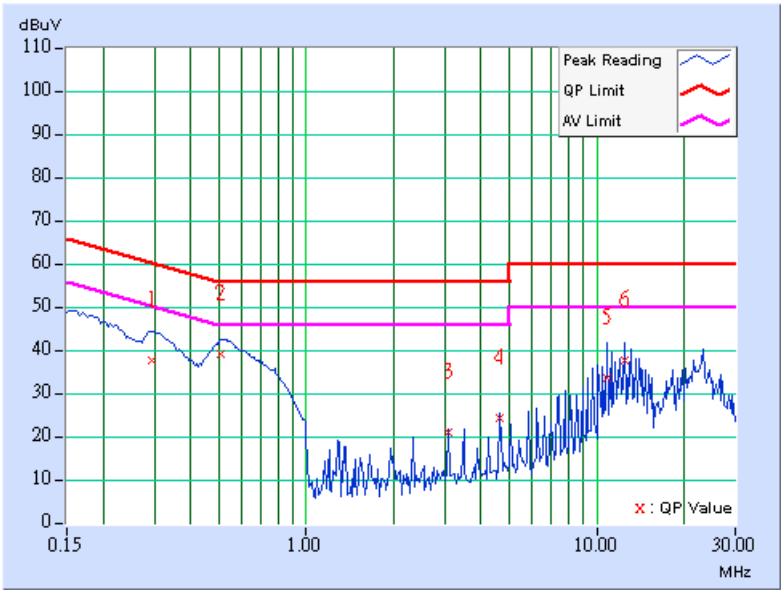
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission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



EUT	802.11g Wireless Broadband Router	**MODEL**	WRTA-108GD
CHANNEL	CH11	**6dB BANDWIDTH**	9kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**PHASE**	Neutral (N)
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH, 991hPa	**TEST MODE**	Mode 3
TESTED BY	Rush Kao		

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	0.295	0.11	37.35	-	37.46	-	60.40	50.40	-22.94	-
2	0.511	0.14	38.63	-	38.77	-	56.00	46.00	-17.23	-
3	3.102	0.28	20.63	-	20.91	-	56.00	46.00	-35.09	-
4	4.656	0.33	23.74	-	24.07	-	56.00	46.00	-31.93	-
5	10.859	0.50	33.11	-	33.61	-	60.00	50.00	-26.39	-
6	12.410	0.52	37.31	-	37.83	-	60.00	50.00	-22.17	-

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	ESIB7	100188	Jan. 13, 2005
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100039	Dec. 15, 2004
BILOG Antenna SCHWARZBECK	VULB9168	9168-157	Feb. 03, 2005
HORN Antenna SCHWARZBECK	BBHA 9120 D	9120D-407	Feb. 03, 2005
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA 9170241	Feb. 23, 2005
Preamplifier Agilent	8449B	3008A01961	Jan. 22, 2005
Preamplifier Agilent	8447D	2944A10629	Jan. 14, 2005
RF signal cable HUBER+SUHNER	SUCOFLEX 104	218182/4	Mar. 04, 2005
RF signal cable HUBER+SUHNER	SUCOFLEX 104	218194/4	Mar. 04, 2005
Software ADT.	ADT_Radiated_V5.14	NA	NA
Antenna Tower ADT.	AT100	AT93021702	NA
Turn Table ADT.	TT100.	TT93021702	NA
Controller ADT.	SC100.	SC93021702	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 1.

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 IC4924-2.

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 mater 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.

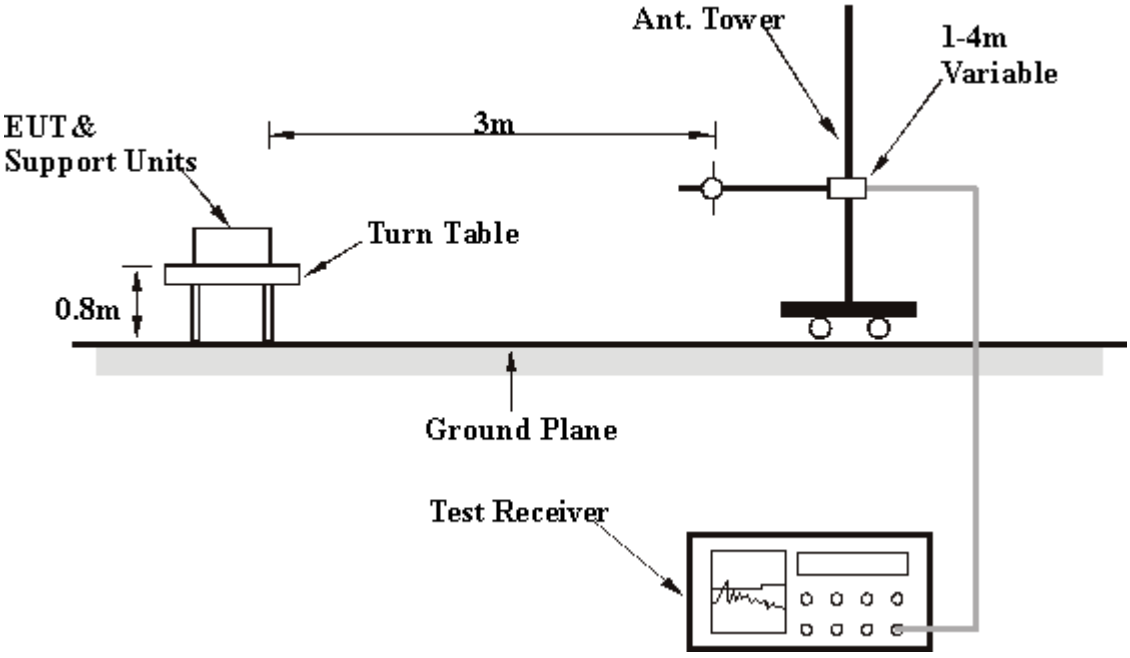
NOTE:

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	802.11g Wireless Broadband Router	**MODEL**	WRTA-108GD
MODE	Channel 11	**FREQUENCY RANGE**	Below 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**DETECTOR FUNCTION**	Quasi-Peak
ENVIRONMENTAL CONDITIONS	25 deg. C, 60 % RH, 991hPa	**TEST MODE**	Mode 1
TEST BY	Match Tsui		

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	179.68	30.01 QP	43.50	-13.49	1.50 H	262	17.02	12.99
2	212.73	28.97 QP	43.50	-14.53	1.75 H	229	17.30	11.67
3	269.10	29.49 QP	46.00	-16.51	1.50 H	283	15.76	13.73
4	325.47	28.34 QP	46.00	-17.66	1.00 H	28	13.25	15.09
5	360.46	28.67 QP	46.00	-17.33	1.00 H	262	12.79	15.88
6	374.07	29.51 QP	46.00	-16.49	1.00 H	43	13.33	16.18
7	399.34	28.70 QP	46.00	-17.30	1.75 H	301	11.97	16.74
8	449.88	33.72 QP	46.00	-12.28	1.75 H	295	15.65	18.07
9	475.15	28.64 QP	46.00	-17.36	1.75 H	16	10.24	18.40
10	539.30	36.20 QP	46.00	-9.80	1.50 H	295	16.71	19.48
11	630.66	35.40 QP	46.00	-10.60	1.25 H	298	13.98	21.42
12	720.08	43.18 QP	46.00	-2.82	1.00 H	355	20.38	22.79
13	776.45	34.22 QP	46.00	-11.78	1.75 H	268	10.54	23.68
14	811.44	39.80 QP	46.00	-6.20	1.00 H	40	15.89	23.90
15	900.86	38.12 QP	46.00	-7.88	1.75 H	142	13.00	25.12

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 Broadband Router	**MODEL**	WRTA-108GD
MODE	Channel 11	**FREQUENCY RANGE**	Below 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**DETECTOR FUNCTION**	Quasi-Peak
ENVIRONMENTAL CONDITIONS	25 deg. C, 60 % RH, 991hPa	**TEST MODE**	Mode 1
TEST BY	Match Tsui		

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	47.49	37.49 QP	40.00	-2.51	1.00 V	127	22.49	15.00
2	101.92	33.76 QP	43.50	-9.74	1.25 V	253	22.58	11.18
3	179.68	34.91 QP	43.50	-8.59	1.00 V	7	21.92	12.99
4	269.10	33.85 QP	46.00	-12.15	1.75 V	139	20.12	13.73
5	360.46	34.79 QP	46.00	-11.21	1.25 V	322	18.91	15.88
6	374.07	30.15 QP	46.00	-15.85	1.25 V	292	13.97	16.18
7	399.34	30.55 QP	46.00	-15.45	1.25 V	274	13.81	16.74
8	449.88	38.45 QP	46.00	-7.55	1.00 V	322	20.38	18.07
9	479.04	28.77 QP	46.00	-17.23	1.00 V	343	10.31	18.45
10	539.30	36.91 QP	46.00	-9.09	1.00 V	322	17.43	19.48
11	630.66	37.65 QP	46.00	-8.35	1.50 V	337	16.23	21.42
12	720.08	39.36 QP	46.00	-6.64	1.25 V	340	16.57	22.79
13	811.44	38.16 QP	46.00	-7.84	1.50 V	247	14.26	23.90
14	900.86	36.75 QP	46.00	-9.25	1.50 V	70	11.63	25.12
15	990.28	32.62 QP	54.00	-21.38	1.25 V	145	6.85	25.77

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 Broadband Router	**MODEL**	WRTA-108GD
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**FREQUENCY RANGE**	Below 1000MHz
MODE	Channel 11	**DETECTOR FUNCTION**	Quasi-Peak
ENVIRONMENTAL CONDITIONS	25 deg. C, 60 % RH, 991hPa	**TEST MODE**	Mode 2
TESTED BY	Match Tsui		

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	33.89	24.07 QP	40.00	-15.93	1.00 H	10	9.82	14.25
2	101.92	23.97 QP	43.50	-19.53	2.00 H	43	12.79	11.18
3	179.68	28.88 QP	43.50	-14.62	1.50 H	199	15.89	12.99
4	269.10	32.83 QP	46.00	-13.17	1.50 H	268	19.09	13.73
5	325.47	27.14 QP	46.00	-18.86	1.00 H	7	12.06	15.09
6	360.46	34.93 QP	46.00	-11.07	1.00 H	52	19.05	15.88
7	374.07	28.11 QP	46.00	-17.89	1.00 H	31	11.93	16.18
8	449.88	32.49 QP	46.00	-13.51	1.00 H	295	14.42	18.07
9	500.42	31.07 QP	46.00	-14.93	1.50 H	343	12.34	18.74
10	539.30	33.87 QP	46.00	-12.13	1.50 H	298	14.38	19.48
11	630.66	34.66 QP	46.00	-11.34	1.50 H	328	13.24	21.42
12	720.08	41.95 QP	46.00	-4.05	1.00 H	334	19.16	22.79
13	764.79	37.11 QP	46.00	-8.89	1.00 H	217	13.50	23.62
14	788.12	32.60 QP	46.00	-13.40	1.00 H	325	8.85	23.75
15	811.44	40.93 QP	46.00	-5.07	1.00 H	28	17.02	23.90

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

EUT	802.11g Wireless Broadband Router	**MODEL**	WRTA-108GD
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**FREQUENCY RANGE**	Below 1000MHz
MODE	Channel 11	**DETECTOR FUNCTION**	Quasi-Peak
ENVIRONMENTAL CONDITIONS	25 deg. C, 60 % RH, 991hPa	**TEST MODE**	Mode 2
TESTED BY	Match Tsui		

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	179.68	27.96 QP	43.50	-15.54	1.50 V	61	14.97	12.99
2	269.10	32.81 QP	46.00	-13.19	1.50 V	253	19.08	13.73
3	325.47	28.54 QP	46.00	-17.46	1.00 V	4	13.46	15.09
4	360.46	34.93 QP	46.00	-11.07	1.00 V	268	19.05	15.88
5	399.34	27.90 QP	46.00	-18.10	1.00 V	76	11.17	16.74
6	449.88	32.51 QP	46.00	-13.49	1.00 V	286	14.44	18.07
7	500.42	31.07 QP	46.00	-14.93	1.50 V	343	12.34	18.74
8	539.30	33.92 QP	46.00	-12.08	1.50 V	295	14.44	19.48
9	630.66	34.60 QP	46.00	-11.40	1.50 V	295	13.18	21.42
10	720.08	41.71 QP	46.00	-4.29	1.00 V	355	18.92	22.79
11	755.07	36.08 QP	46.00	-9.92	1.00 V	202	12.52	23.56
12	764.79	38.39 QP	46.00	-7.61	1.00 V	10	14.77	23.62
13	776.45	36.92 QP	46.00	-9.08	2.00 V	43	13.23	23.68
14	811.44	41.73 QP	46.00	-4.27	1.00 V	244	17.82	23.90
15	900.86	38.73 QP	46.00	-7.27	1.50 V	295	13.61	25.12

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 Broadband Router	**MODEL**	WRTA-108GD
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**FREQUENCY RANGE**	Below 1000MHz
MODE	Channel 11	**DETECTOR FUNCTION**	Quasi-Peak
ENVIRONMENTAL CONDITIONS	30 deg. C, 60 % RH, 991hPa	**TEST MODE**	Mode 3
TESTED BY	Hardaway Lee		

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	50.52	30.02 QP	40.00	-9.98	1.85 H	44	22.34	7.68
2	164.13	30.22 QP	43.50	-13.28	1.98 H	65	22.05	8.17
3	360.46	29.17 QP	46.00	-16.83	1.32 H	256	20.36	8.81
4	449.85	36.22 QP	46.00	-9.78	1.22 H	144	27.17	9.05
5	539.28	35.69 QP	46.00	-10.31	1.66 H	58	26.33	9.36
6	630.66	33.33 QP	46.00	-12.67	1.12 H	87	23.74	9.59
7	720.03	40.28 QP	46.00	-5.72	1.59 H	158	30.45	9.83
8	811.26	38.17 QP	46.00	-7.83	1.14 H	99	28.19	9.98
9	900.79	40.22 QP	46.00	-5.78	1.55 H	199	30.02	10.20
10	990.00	40.11 QP	54.00	-13.89	1.00 H	36	29.64	10.47

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	50.52	38.00 QP	40.00	-2.00	1.00 V	250	30.32	7.68
2	84.43	36.71 QP	40.00	-3.29	1.05 V	231	28.85	7.86
3	136.50	37.21 QP	43.50	-6.29	1.05 V	231	29.12	8.09
4	179.68	35.88 QP	43.50	-7.62	1.00 V	221	27.64	8.24
5	249.66	30.02 QP	46.00	-15.98	1.00 V	123	21.55	8.47
6	449.87	38.21 QP	46.00	-7.79	1.60 V	114	29.16	9.05
7	630.66	38.24 QP	46.00	-7.76	1.57 V	321	28.65	9.59
8	720.11	40.11 QP	46.00	-5.89	1.47 V	66	30.28	9.83
9	900.88	39.11 QP	46.00	-6.89	1.07 V	166	28.91	10.20
10	990.28	35.98 QP	54.00	-18.02	1.18 V	29	25.51	10.47

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

4.2.8 TEST RESULTS (A)

EUT	802.11g Wireless Broadband Router	**MODEL**	WRTA-108GD
CHANNEL	Channel 1	**FREQUENCY RANGE**	1 ~25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**DETECTOR FUNCTION**	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	24 deg. C, 64 % RH, 991hPa	**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	1440.00	51.29 PK	74.00	-22.71	1.00 H	144	21.79	29.50
1	1440.00	37.51 AV	54.00	-16.49	1.00 H	144	8.01	29.50
2	2320.00	50.92 PK	74.00	-23.08	1.11 H	360	19.48	31.44
2	2320.00	38.97 AV	54.00	-15.03	1.11 H	360	7.53	31.44
3	2390.00	43.04 PK	74.00	-30.96	1.00 H	360	11.43	31.61
3	2390.00	37.72 AV	54.00	-16.28	1.00 H	360	6.11	31.61
4	*2412.00	102.48 PK			1.00 H	360	70.78	31.70
4	*2412.00	94.16 AV			1.00 H	360	62.46	31.70
5	2688.00	45.40 PK	74.00	-28.60	1.38 H	20	12.70	32.70
5	2688.00	36.74 AV	54.00	-17.26	1.38 H	20	4.04	32.70
6	4824.00	49.38 PK	74.00	-24.62	1.12 H	238	11.80	37.58

NTENNA 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	1440.00	46.52 PK	74.00	-27.48	1.00 V	325	17.02	29.50
1	1440.00	41.40 AV	54.00	-12.60	1.00 V	325	11.90	29.50
2	2320.00	62.03 PK	74.00	-11.97	1.10 V	360	30.59	31.44
2	2320.00	51.79 AV	54.00	-2.21	1.10 V	360	20.35	31.44
3	2390.00	56.09 PK	74.00	-17.91	1.03 V	5	24.48	31.61
3	2390.00	48.09 AV	54.00	-5.91	1.03 V	5	16.48	31.61
4	*2412.00	115.53 PK			1.03 V	5	83.83	31.70
4	*2412.00	107.53 AV			1.03 V	5	75.83	31.70
5	2688.00	54.72 PK	74.00	-19.28	1.00 V	13	22.02	32.70
5	2688.00	52.65 AV	54.00	-1.35	1.00 V	13	19.95	32.70
6	4824.00	51.50 PK	74.00	-22.50	1.00 V	23	13.92	37.58
7	9648.00	57.55 PK	74.00	-16.45	1.10 V	23	9.18	48.37

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 Broadband Router	**MODEL**	WRTA-108GD
CHANNEL	Channel 6	**FREQUENCY RANGE**	1 ~25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**DETECTOR FUNCTION**	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	24 deg. C, 64 % RH, 991hPa	**TESTED BY**	Leo Hung

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3M

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	1440.00	44.10 PK	74.00	-29.90	1.11 H	75	14.60	29.50
1	1444.00	37.75 AV	54.00	-16.25	1.11 H	75	8.25	29.50
2	2320.00	53.99 PK	74.00	-20.01	1.29 H	238	22.55	31.44
2	2320.00	42.56 AV	54.00	-11.44	1.29 H	238	11.12	31.44
3	*2437.00	102.98 PK			1.16 H	61	71.13	31.85
3	*2437.00	94.39 AV			1.16 H	61	62.54	31.85
4	2688.00	46.54 PK	74.00	-27.46	1.58 H	343	13.84	32.70
4	2688.00	40.50 AV	54.00	-13.50	1.58 H	343	7.80	32.70
5	4874.00	47.84 PK	74.00	-26.16	1.00 H	115	10.18	37.66

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3M

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	1440.00	46.30 PK	74.00	-27.70	1.00 V	316	16.80	29.50
1	1440.00	41.87 AV	54.00	-12.13	1.00 V	316	12.37	29.50
2	2320.00	62.29 PK	74.00	-11.71	1.00 V	320	30.85	31.44
2	2320.00	51.70 AV	54.00	-2.30	1.00 V	320	20.26	31.44
3	*2437.00	114.93 PK			1.07 V	357	83.08	31.85
3	*2437.00	106.39 AV			1.07 V	357	74.54	31.85
4	2688.00	55.02 PK	74.00	-18.98	1.04 V	45	22.32	32.70
4	2688.00	52.98 AV	54.00	-1.02	1.04 V	45	20.28	32.70
5	4874.00	51.48 PK	74.00	-22.52	1.09 V	20	13.82	37.66
5	4874.00	37.16 AV	54.00	-16.84	1.09 V	20	-0.50	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	802.11g Wireless Broadband Router	**MODEL**	WRTA-108GD
CHANNEL	Channel 11	**FREQUENCY RANGE**	1 ~25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**DETECTOR FUNCTION**	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	24 deg. C, 64 % RH, 991hPa	**TESTED BY**	Leo Hung

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3M

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	1440.00	48.23 PK	74.00	-25.77	1.09 H	300	18.73	29.50
1	1440.00	34.87 AV	54.00	-19.13	1.09 H	300	5.37	29.50
2	2320.00	50.95 PK	74.00	-23.05	1.00 H	322	19.51	31.44
2	2320.00	40.04 AV	54.00	-13.96	1.00 H	322	8.60	31.44
3	*2462.00	101.45 PK			1.20 H	54	69.45	32.00
3	*2462.00	93.33 AV			1.20 H	54	61.33	32.00
4	2483.50	40.51 PK	74.00	-33.49	1.20 H	54	8.38	32.13
4	2483.50	32.76 AV	54.00	-21.24	1.20 H	54	0.63	32.13
5	2688.00	47.33 PK	74.00	-26.67	1.55 H	73	14.63	32.70
5	2688.00	41.19 AV	54.00	-12.81	1.55 H	73	8.49	32.70
6	4924.00	50.81 PK	74.00	-23.19	1.16 H	324	13.07	37.74
6	4924.00	40.17 AV	54.00	-13.83	1.16 H	324	2.43	37.74

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3M

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	1440.00	46.70 PK	74.00	-27.30	1.16 V	208	17.20	29.50
1	1440.00	40.14 AV	54.00	-13.86	1.16 V	208	10.64	29.50
2	2320.00	64.52 PK	74.00	-9.48	1.07 V	354	33.08	31.44
2	2320.00	52.50 AV	54.00	-1.50	1.07 V	354	21.06	31.44
3	*2462.00	114.70 PK			1.21 V	341	82.70	32.00
3	*2462.00	105.89 AV			1.21 V	341	73.89	32.00
4	2483.50	53.76 PK	74.00	-20.24	1.21 V	341	21.63	32.13
4	2483.50	44.95 AV	54.00	-9.05	1.21 V	341	12.82	32.13
5	2688.00	55.68 PK	74.00	-18.32	1.08 V	45	22.98	32.70
5	**2688.00**	**53.00 AV**	**54.00**	**-1.00**	**1.08 V**	**45**	**20.30**	**32.70**
6	4924.00	50.10 PK	74.00	-23.90	1.10 V	287	12.36	37.74

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.
5. " * " : Fundamental frequency.

4.2.9 TEST RESULTS (B)

EUT	802.11g Wireless Broadband Router	**MODEL**	WRTA-108GD
CHANNEL	Channel 1	**FREQUENCY RANGE**	1 ~25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**DETECTOR FUNCTION**	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	24 deg. C, 64 % RH, 991hPa	**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	1440.00	42.94 PK	74.00	-31.06	1.40 H	256	13.44	29.50
1	1440.00	34.90 AV	54.00	-19.10	1.40 H	256	5.40	29.50
2	2320.00	49.58 PK	74.00	-24.42	1.30 H	321	18.14	31.44
2	2320.00	38.59 AV	54.00	-15.41	1.30 H	321	7.15	31.44
3	2390.00	49.78 PK	74.00	-24.22	1.10 H	15	18.17	31.61
3	2390.00	39.35 AV	54.00	-14.65	1.10 H	15	7.74	31.61
4	*2412.00	98.65 PK			1.10 H	15	66.95	31.70
4	*2412.00	88.22 AV			1.10 H	15	56.52	31.70
5	2688.00	46.99 PK	74.00	-27.01	1.17 H	250	14.29	32.70
5	2688.00	39.10 AV	54.00	-14.90	1.17 H	250	6.40	32.70
6	4824.00	48.52 PK	74.00	-25.48	1.04 H	236	10.94	37.58

NTENNA 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	1440.00	45.70 PK	74.00	-28.30	1.05 V	308	16.20	29.50
1	1440.00	41.08 AV	54.00	-12.92	1.05 V	308	11.58	29.50
2	2320.00	60.31 PK	74.00	-13.69	1.38 V	1	28.87	31.44
2	2320.00	50.42 AV	54.00	-3.58	1.38 V	1	18.98	31.44
3	2390.00	63.70 PK	74.00	-10.30	1.00 V	352	32.09	31.61
3	2390.00	52.33 AV	54.00	-1.67	1.00 V	352	20.73	31.61
4	*2412.00	112.57 PK			1.00 V	352	80.87	31.70
4	*2412.00	101.22 AV			1.00 V	352	69.52	31.70
5	2688.00	54.59 PK	74.00	-19.41	1.15 V	351	21.89	32.70
5	2688.00	51.78 AV	54.00	-2.22	1.15 V	351	19.08	32.70
6	4824.00	50.05 PK	74.00	-23.95	1.00 V	285	12.47	37.58

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 Broadband Router	**MODEL**	WRTA-108GD
CHANNEL	Channel 6	**FREQUENCY RANGE**	1 ~25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**DETECTOR FUNCTION**	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	24 deg. C, 64 % RH, 991hPa	**TESTED BY**	Leo Hung

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3M								
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	1440.00	44.47 PK	74.00	-29.53	1.18 H	75	14.97	29.50
1	1440.00	38.47 AV	54.00	-15.53	1.18 H	75	8.97	29.50
2	2320.00	48.98 PK	74.00	-25.02	1.31 H	321	17.54	31.44
2	2320.00	38.87 AV	54.00	-15.13	1.31 H	321	7.43	31.44
3	*2437.00	97.19 PK			1.08 H	269	65.34	31.85
3	*2437.00	86.64 AV			1.08 H	269	54.79	31.85
4	2688.00	46.94 PK	74.00	-27.06	1.30 H	345	14.24	32.70
4	2688.00	39.47 AV	54.00	-14.53	1.30 H	345	6.77	32.70
5	4874.00	48.65 PK	74.00	-25.35	1.07 H	118	10.99	37.66

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3M								
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	1440.00	44.56 PK	74.00	-29.44	1.92 V	282	15.06	29.50
1	1440.00	39.28 AV	54.00	-14.72	1.92 V	282	9.78	29.50
2	2320.00	60.02 PK	74.00	-13.98	1.00 V	304	28.58	31.44
2	2320.00	50.39 AV	54.00	-3.61	1.00 V	304	18.95	31.44
3	*2437.00	110.99 PK			1.21 V	352	79.14	31.85
3	*2437.00	100.20 AV			1.21 V	352	68.35	31.85
4	2688.00	54.08 PK	74.00	-19.92	1.05 V	317	21.38	32.70
4	2688.00	51.70 AV	54.00	-2.30	1.05 V	317	19.00	32.70
5	4874.00	50.35 PK	74.00	-23.65	1.00 V	282	12.69	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	802.11g Wireless Broadband Router	**MODEL**	WRTA-108GD
CHANNEL	Channel 11	**FREQUENCY RANGE**	1 ~25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**DETECTOR FUNCTION**	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	24 deg. C, 64 % RH, 991hPa	**TESTED BY**	Leo Hung

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3M

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	1440.00	45.10 PK	74.00	-28.90	1.04 H	214	15.60	29.50
1	1440.00	39.54 AV	54.00	-14.46	1.04 H	214	10.04	29.50
2	2320.00	53.80 PK	74.00	-20.20	1.23 H	53	22.36	31.44
2	2320.00	41.87 AV	54.00	-12.13	1.23 H	53	10.43	31.44
3	*2462.00	100.40 PK			1.14 H	55	68.40	32.00
3	*2462.00	90.07 AV			1.14 H	55	58.07	32.00
4	2483.50	50.83 PK	74.00	-23.17	1.14 H	55	18.70	32.13
4	2483.50	40.52 AV	54.00	-13.48	1.14 H	55	8.39	32.13
5	2688.00	46.55 PK	74.00	-27.45	1.28 H	67	13.85	32.70
5	2688.00	38.93 AV	54.00	-15.07	1.28 H	67	6.23	32.70
6	4924.00	48.49 PK	74.00	-25.51	1.01 H	187	10.75	37.74

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3M

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	1440.00	47.16 PK	74.00	-26.84	1.54 V	318	17.66	29.50
1	1440.00	41.36 AV	54.00	-12.64	1.54 V	318	11.86	29.50
2	2320.00	59.20 PK	74.00	-14.80	1.21 V	15	27.76	31.44
2	2320.00	48.26 AV	54.00	-5.74	1.21 V	15	16.82	31.44
3	*2462.00	112.08 PK			1.06 V	360	80.08	32.00
3	*2462.00	101.07 AV			1.06 V	360	69.07	32.00
4	2483.50	62.51 PK	74.00	-11.49	1.06 V	360	30.38	32.13
4	2483.50	51.50 AV	54.00	-2.50	1.06 V	360	19.37	32.13
5	2688.00	56.83 PK	74.00	-17.17	1.05 V	44	24.13	32.70
5	2688.00	52.27 AV	54.00	-1.73	1.05 V	44	19.57	32.70
6	4924.00	48.83 PK	74.00	-25.17	1.00 V	244	11.09	37.74

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.
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.

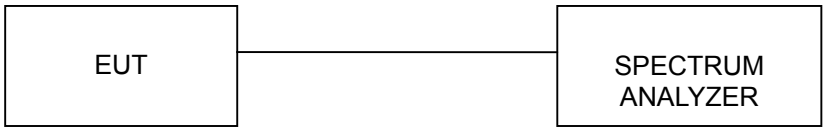
4.3.3 TEST PROCEDURE

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

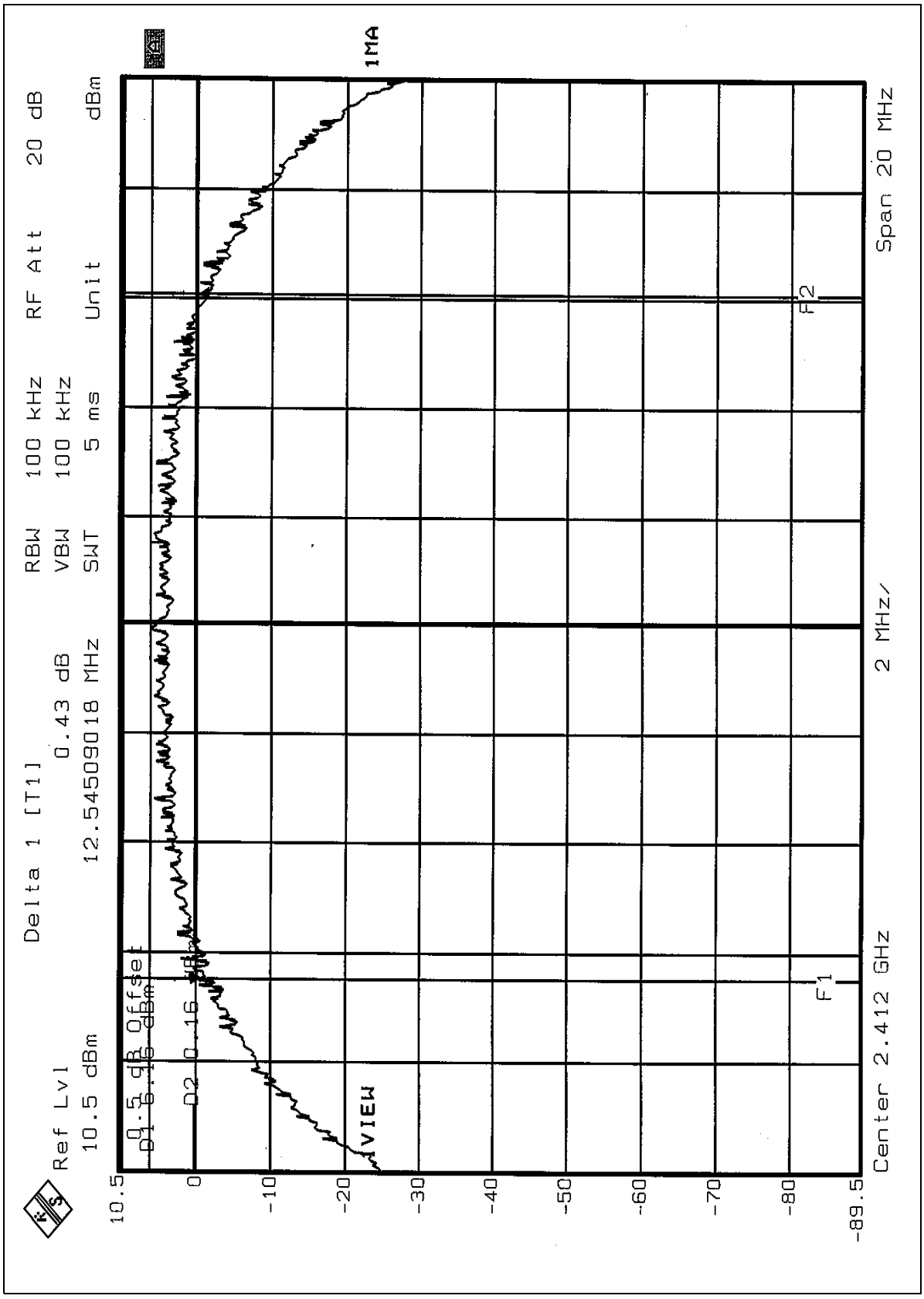
The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

4.3.7 TEST RESULTS (A)

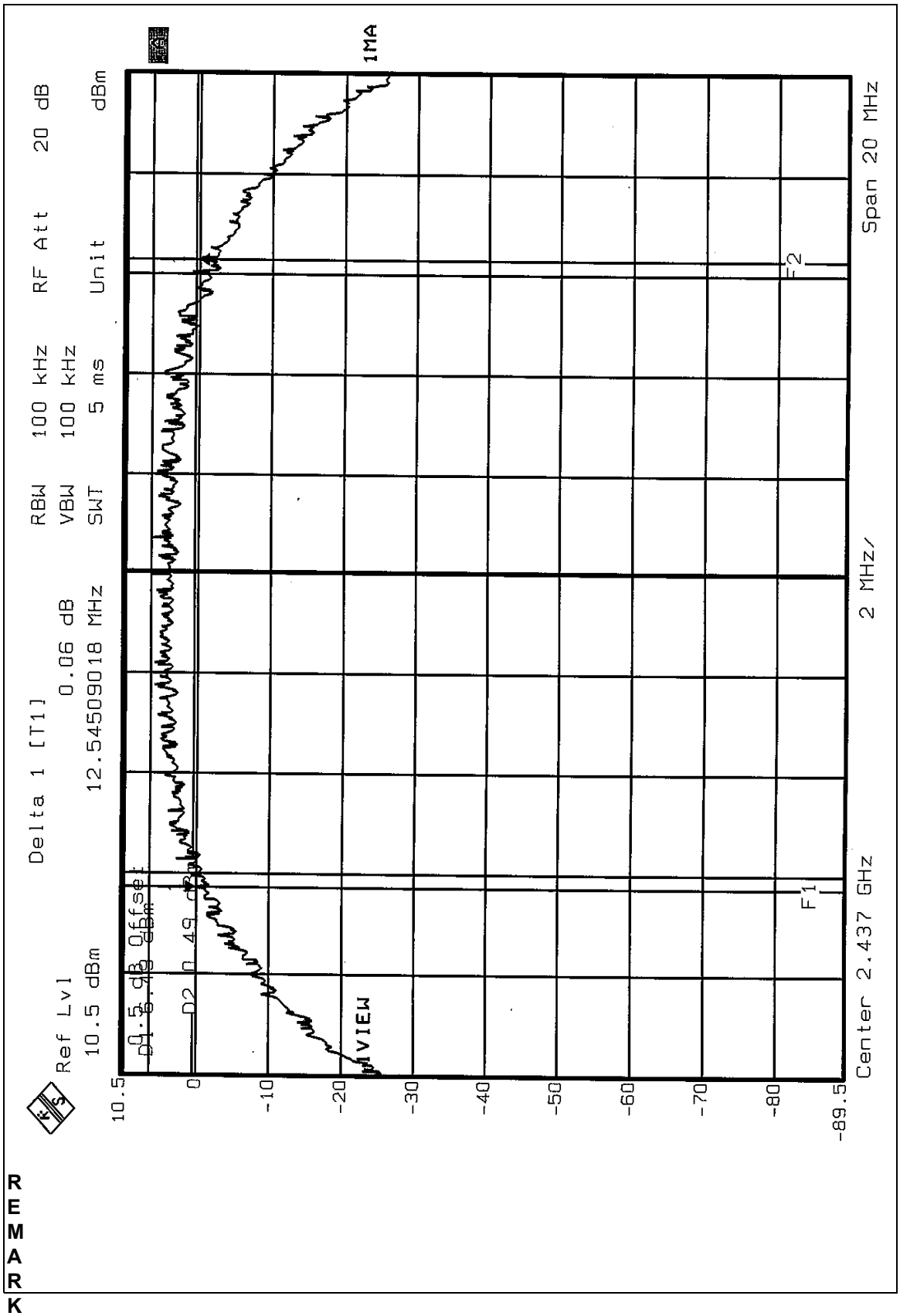
EUT	802.11g Wireless Broadband Router	**MODEL**	WRTA-108GD
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**ENVIRONMENTAL CONDITIONS**	24deg. C, 64%RH, 991hPa
TESTED BY:	Leo Hung		

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS/FAIL
1	2412	12.55	0.5	PASS
6	2437	12.55	0.5	PASS
11	2462	11.94	0.5	PASS

CH1

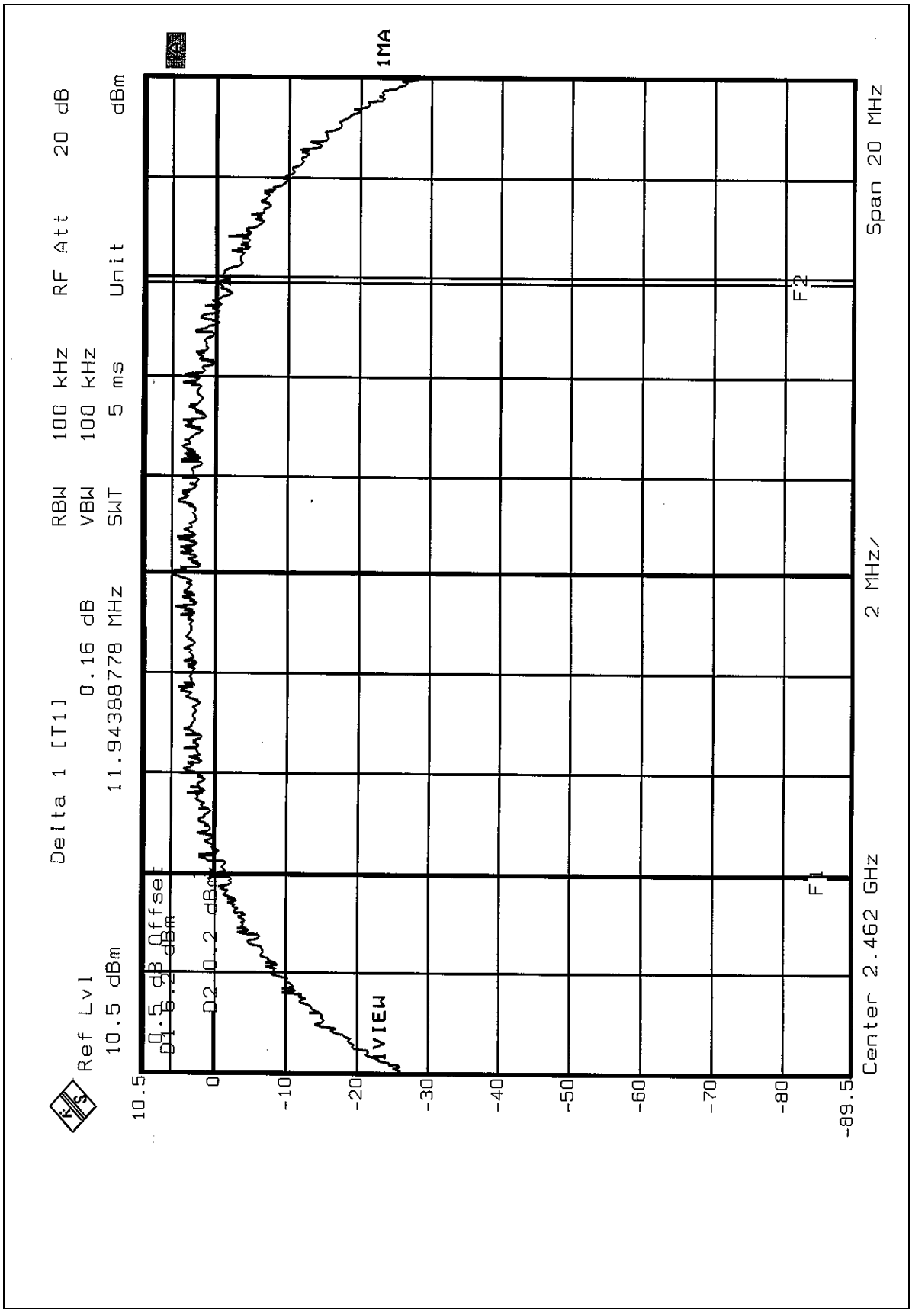

Ref Lvl
10.5 dBm
Delta 1 [T1]
0.43 dB
12.5450900 18 MHz
RBW 100 kHz
VBW 100 kHz
SWT 5 ms
RF Att 20 dB
Unit dBm
1MA
VIEW
D1 -6.16 dBm
D2 0.16 dB
0.5 dB Offset
F1
F2
Center 2.412 GHz
2 MHz/
Span 20 MHz
10.5
0
-10
-20
-30
-40
-50
-60
-70
-80
-89.5

CH6



REMARKS: Test Emission

CH11

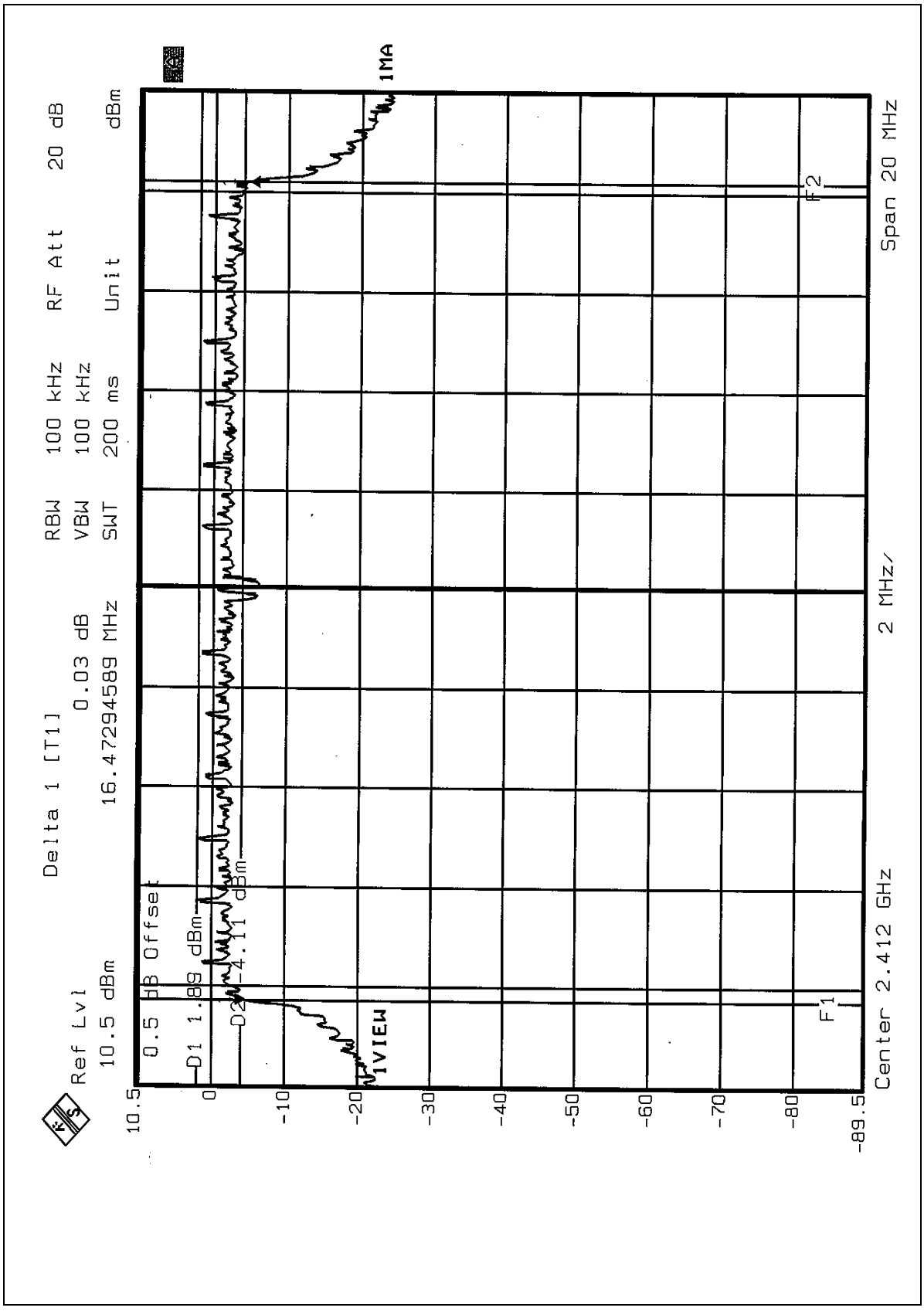

Delta 1 [T1]
0.16 dB
11.94388778 MHz
RBW 100 kHz
VBW 100 kHz
SWT 5 ms
RF Att 20 dB
Unit dBm
Ref Lvl
10.5 dBm
D1 0.5 dB Offset
D2 0.2 dBm
1MA
VIEW
F1
F2
Center 2.462 GHz
2 MHz/
Span 20 MHz
10.5
0
-10
-20
-30
-40
-50
-60
-70
-80
-89.5

4.3.8 TEST RESULTS (B)

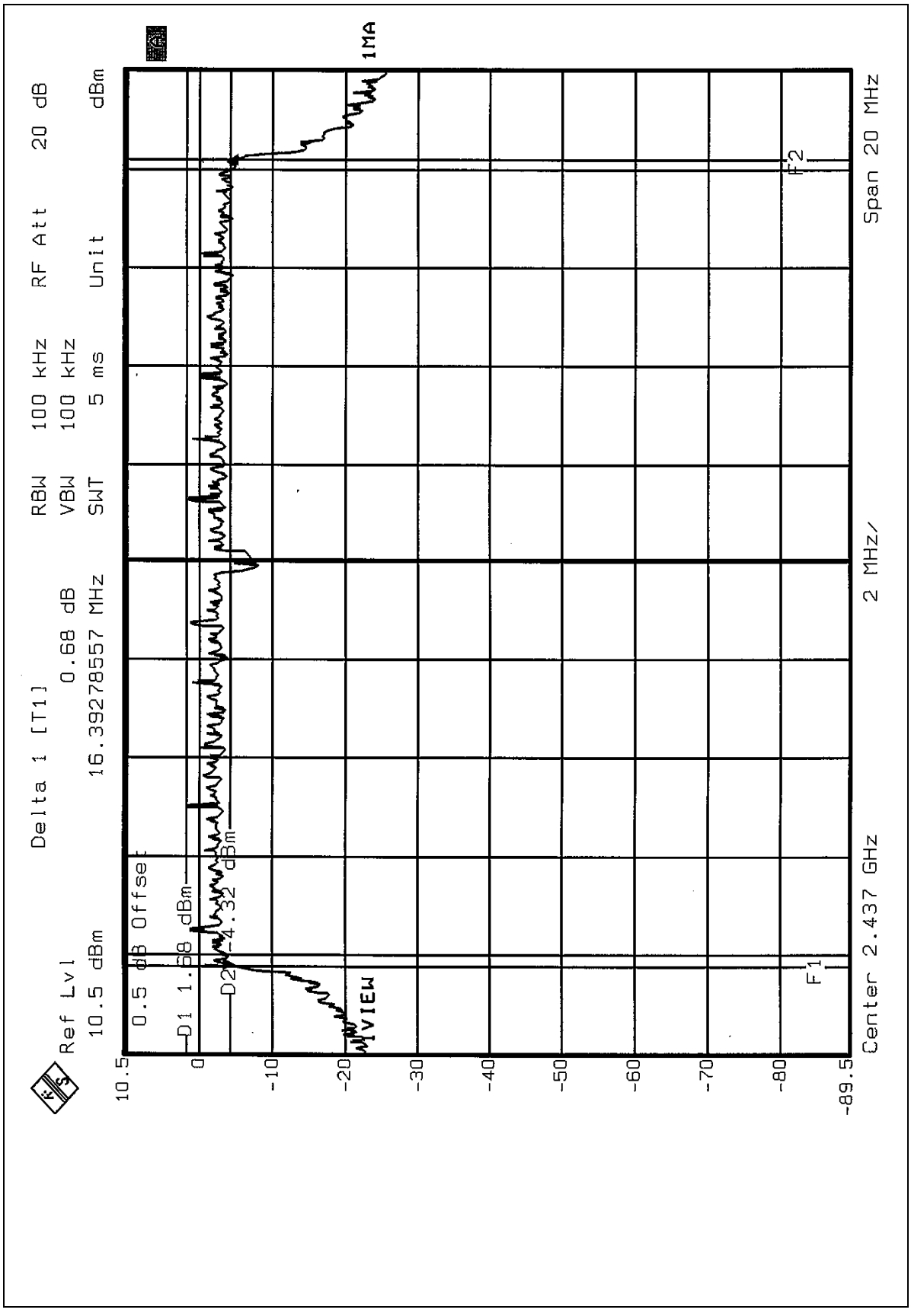
EUT	802.11g Wireless Broadband Router	**MODEL**	WRTA-108GD
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**ENVIRONMENTAL CONDITIONS**	24deg. C, 64%RH, 991hPa
TESTED BY:	Leo Hung		

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS/FAIL
1	2412	16.47	0.5	PASS
6	2437	16.39	0.5	PASS
11	2462	16.39	0.5	PASS

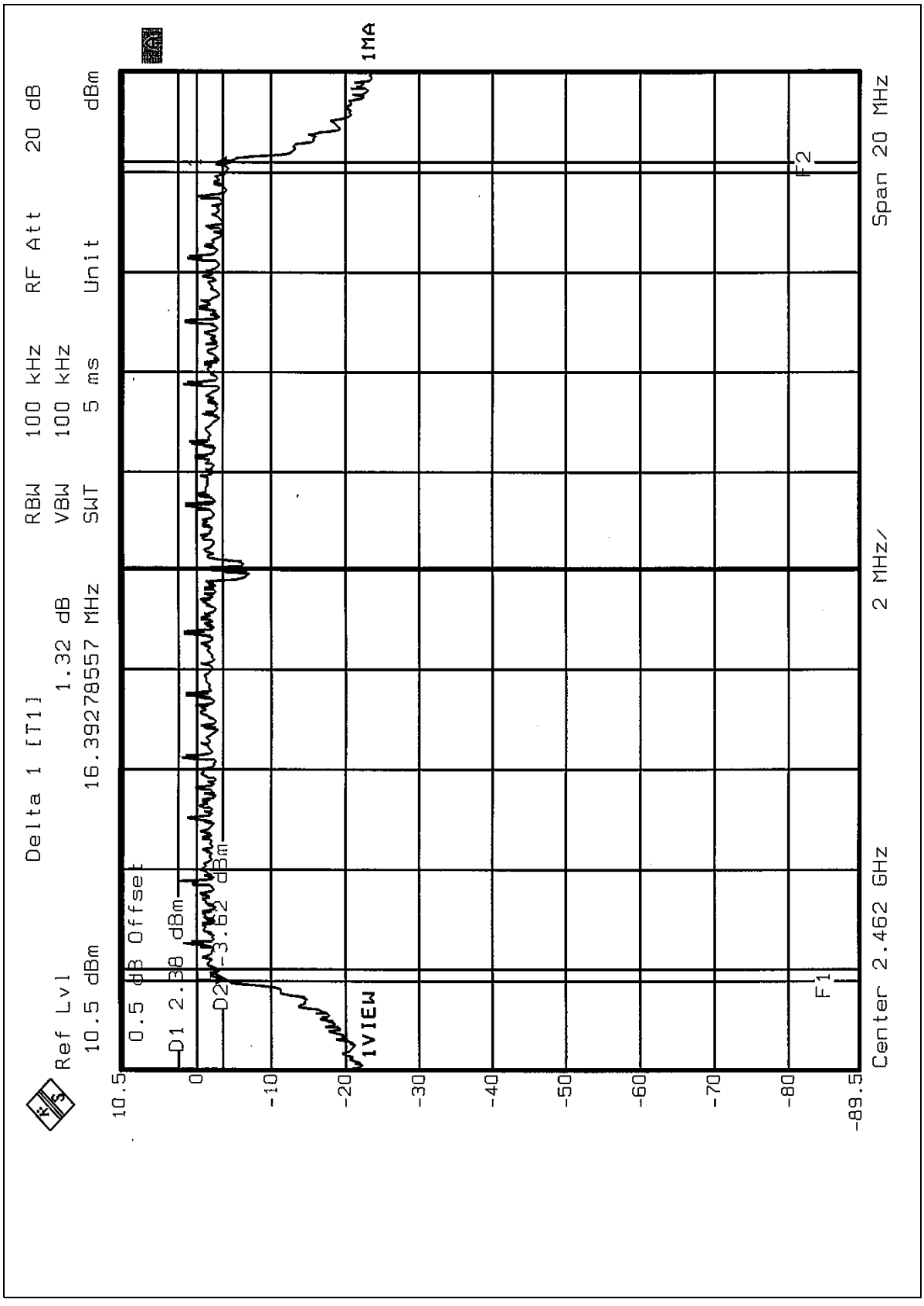
CH1


Delta 1 [T1]
0.03 dB
16.47294589 MHz
RBW 100 kHz
VBW 100 kHz
SWT 200 ms
RF Att 20 dB
Unit dBm
Ref Lvl
10.5 dBm
0.5 dB Offset
D1 1.89 dBm
D2 -4.11 dBm
1MA
1VIEW
F1
F2
Center 2.412 GHz
2 MHz/
Span 20 MHz
10.5
0
-10
-20
-30
-40
-50
-60
-70
-80
-89.5

CH6


Delta 1 [T1]
0.68 dB
16.39278557 MHz
RBW 100 kHz
VBW 100 kHz
SWT 5 ms
RF Att 20 dB
Unit dBm
Ref Lvl
10.5 dBm
0.5 dB Offset
D1 1.68 dBm
D2 -4.32 dBm
1MA
VIEW
F1
F2
Center 2.437 GHz
2 MHz/
Span 20 MHz
10.5
0
-10
-20
-30
-40
-50
-60
-70
-80
-89.5

CH11


Delta 1 [T1]
1.32 dB
16.39278557 MHz
Ref Lvl
10.5 dBm
0.5 dB Offset
D1 2.38 dBm
D2 -3.62 dBm
RBW 100 kHz
VBW 100 kHz
SWT 5 ms
RF Att 20 dB
Unit dBm
1MA
1VIEW
F1
F2
Center 2.462 GHz
2 MHz/
Span 20 MHz
10.5
0
-10
-20
-30
-40
-50
-60
-70
-80
-89.5

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	Serial No.	Calibrated Until
R&S SPECTRUM ANALYZER	FSEK30	100049	Aug. 12, 2004
AGILENT SIGNAL GENERATOR	E8257C	MY43320668	Dec. 31, 2004
TEKTRONIX OSCILLOSCOPE	TDS 220	C019167	Feb. 01, 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	802.11g Wireless Broadband Router	**MODEL**	WRTA-108GD
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**ENVIRONMENTAL CONDITIONS**	24deg. C, 64%RH, 991hPa
TESTED BY:	Leo Hung		

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
1	2412	18	29	PASS
6	2437	18	29	PASS
11	2462	18	29	PASS

4.4.8 TEST RESULTS (B)

EUT	802.11g Wireless Broadband Router	**MODEL**	WRTA-108GD
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**ENVIRONMENTAL CONDITIONS**	24deg. C, 64%RH, 991hPa
TESTED BY:	Leo Hung		

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
1	2412	18	29	PASS
6	2437	18	29	PASS
11	2462	18.	29	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

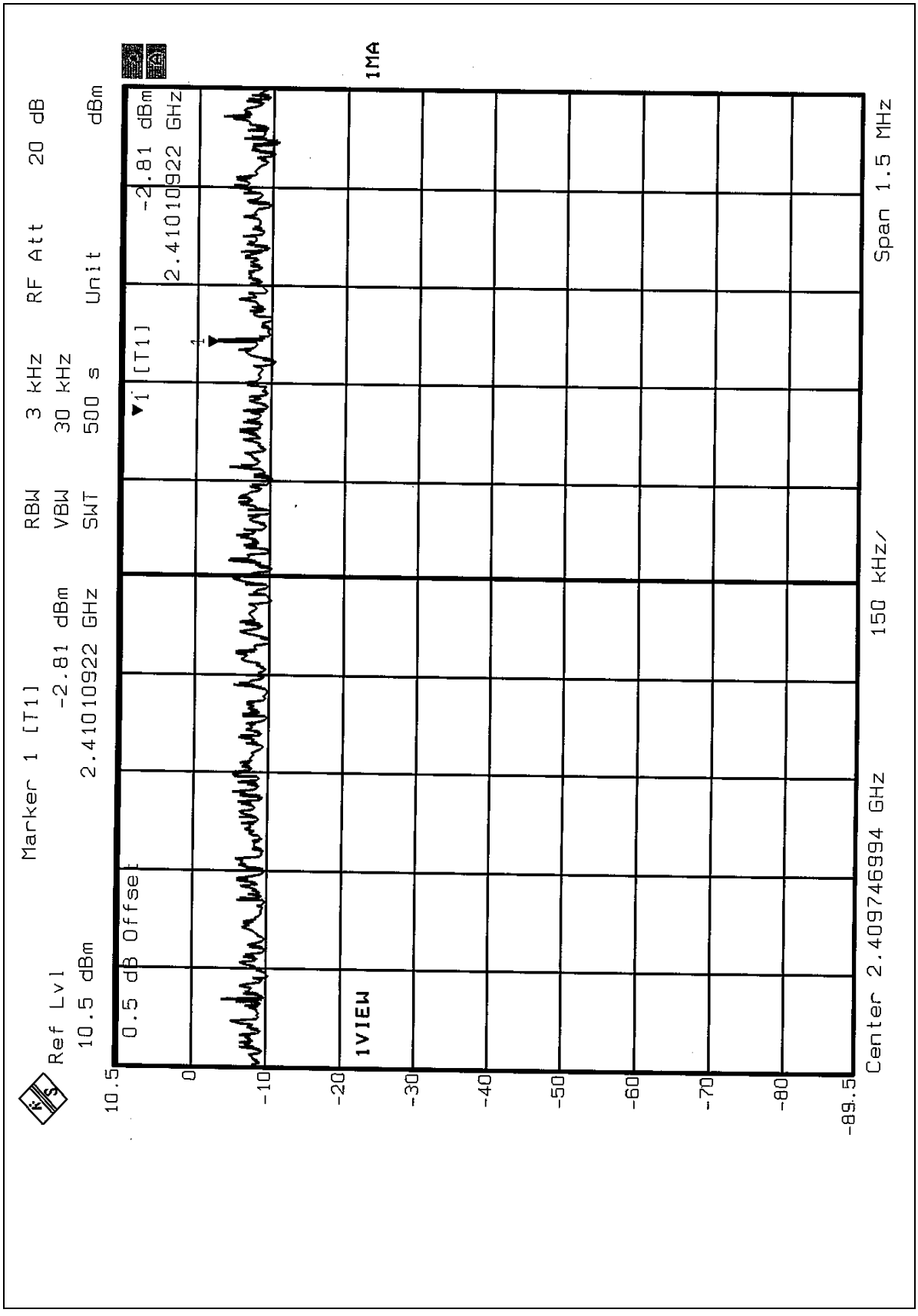
Same as 4.3.6

4.5.7 TEST RESULTS (A)

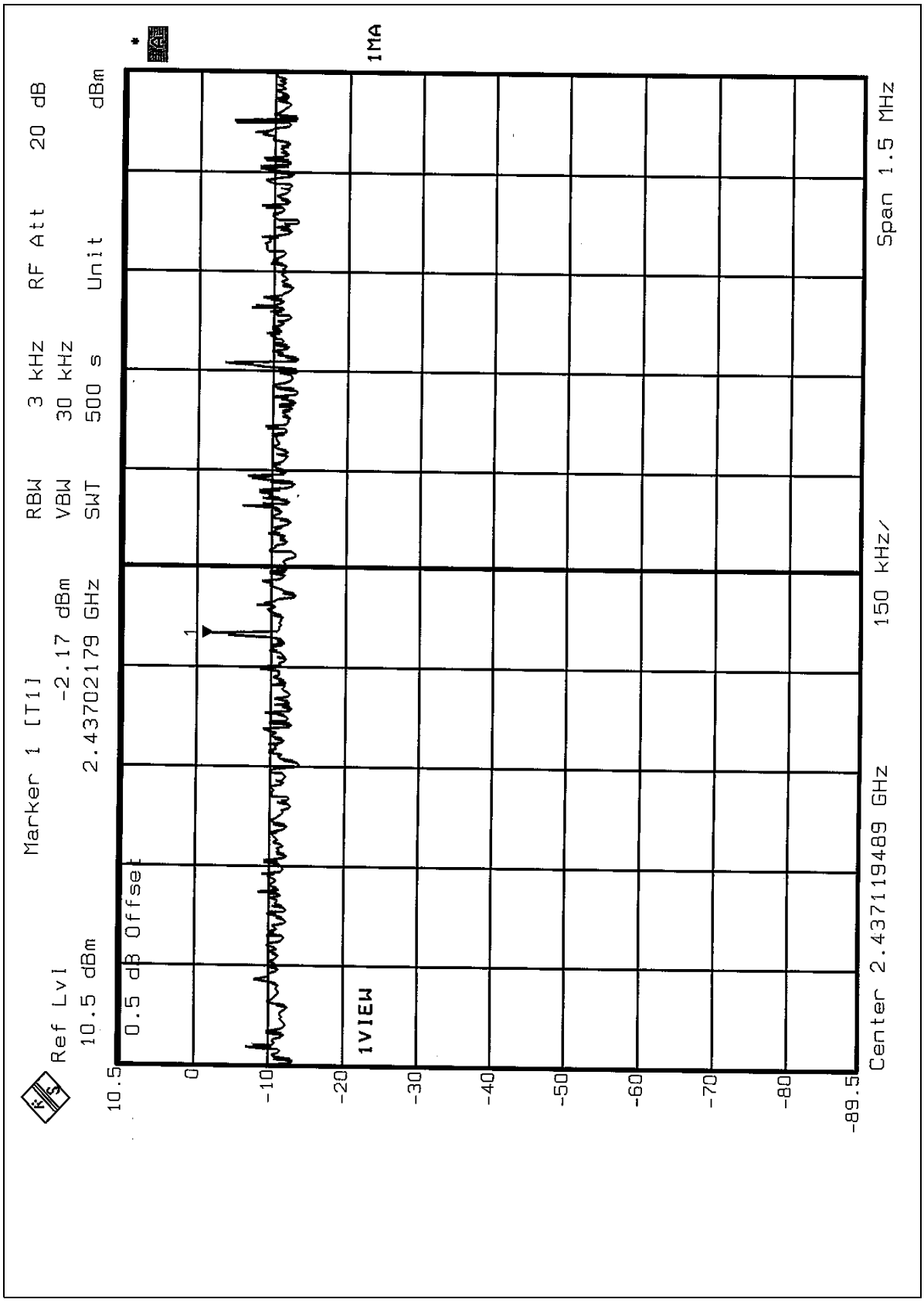
EUT	802.11g Wireless Broadband Router	**MODEL**	WRTA-108GD
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**ENVIRONMENTAL CONDITIONS**	24deg. C, 64%RH, 991hPa
TESTED BY:	Leo Hung		

CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3 kHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	2412	-2.81	8	PASS
6	2437	-2.17	8	PASS
11	2462	-2.75	8	PASS

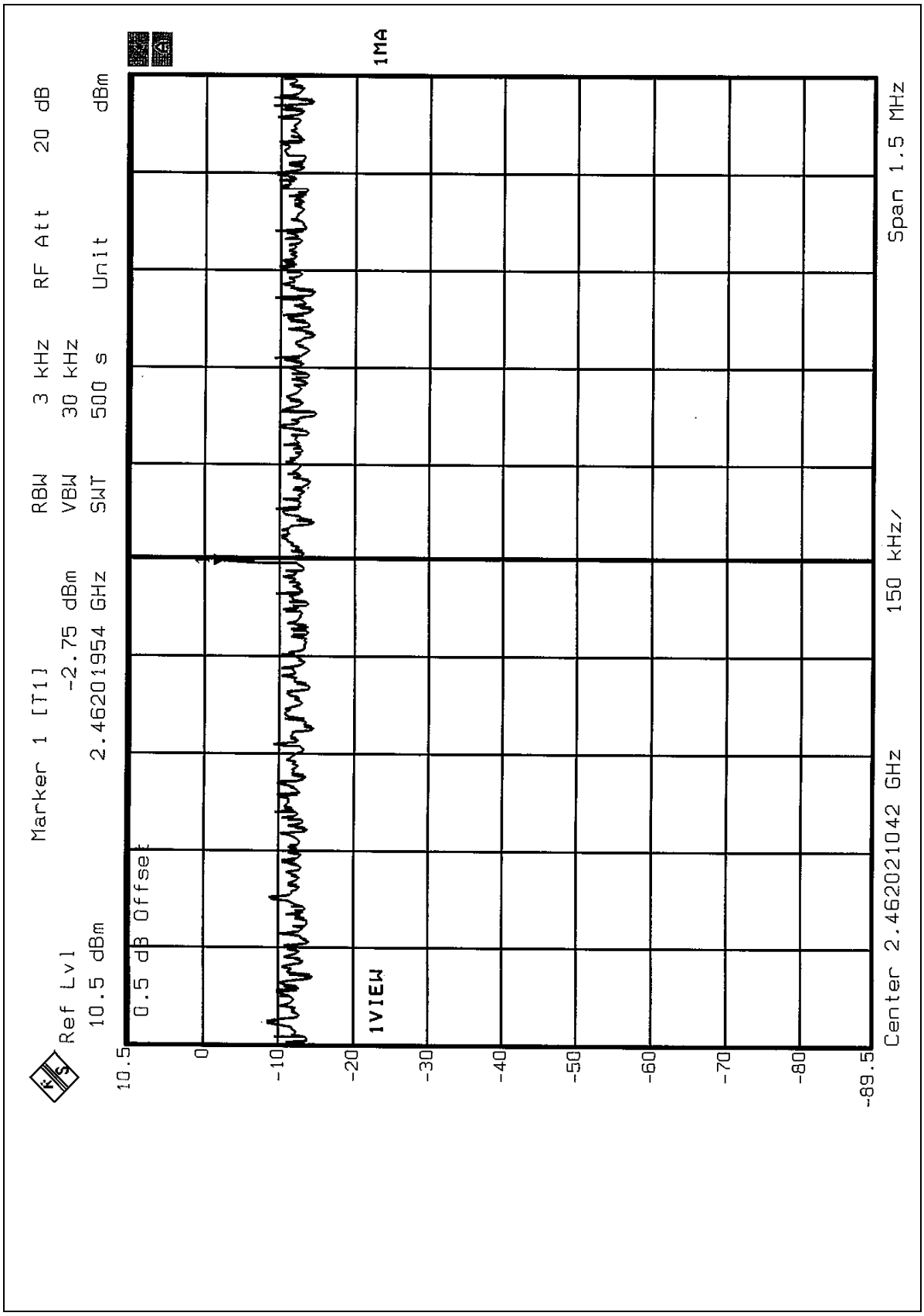
CH1


Marker 1 [T1]
-2.81 dBm
2.41010922 GHz
RBW 3 kHz
VBW 30 kHz
SWT 500 s
RF Att 20 dB
Unit dBm
Ref Lvl
10.5 dBm
0.5 dB Offset
1VIEW
1MA
Center 2.409746994 GHz
150 kHz/
Span 1.5 MHz
10.5
0
-10
-20
-30
-40
-50
-60
-70
-80
-89.5

CH6


Marker 1 [T1]
-2.17 dBm
2.43702179 GHz
RBW 3 kHz
VBW 30 kHz
SWT 500 s
RF Att 20 dB
Unit dBm
Ref Lvl
10.5 dBm
0.5 dB Offset
1VIEW
1MA
Center 2.437119489 GHz
150 kHz/
Span 1.5 MHz
10.5
0
-10
-20
-30
-40
-50
-60
-70
-80
-89.5

CH11

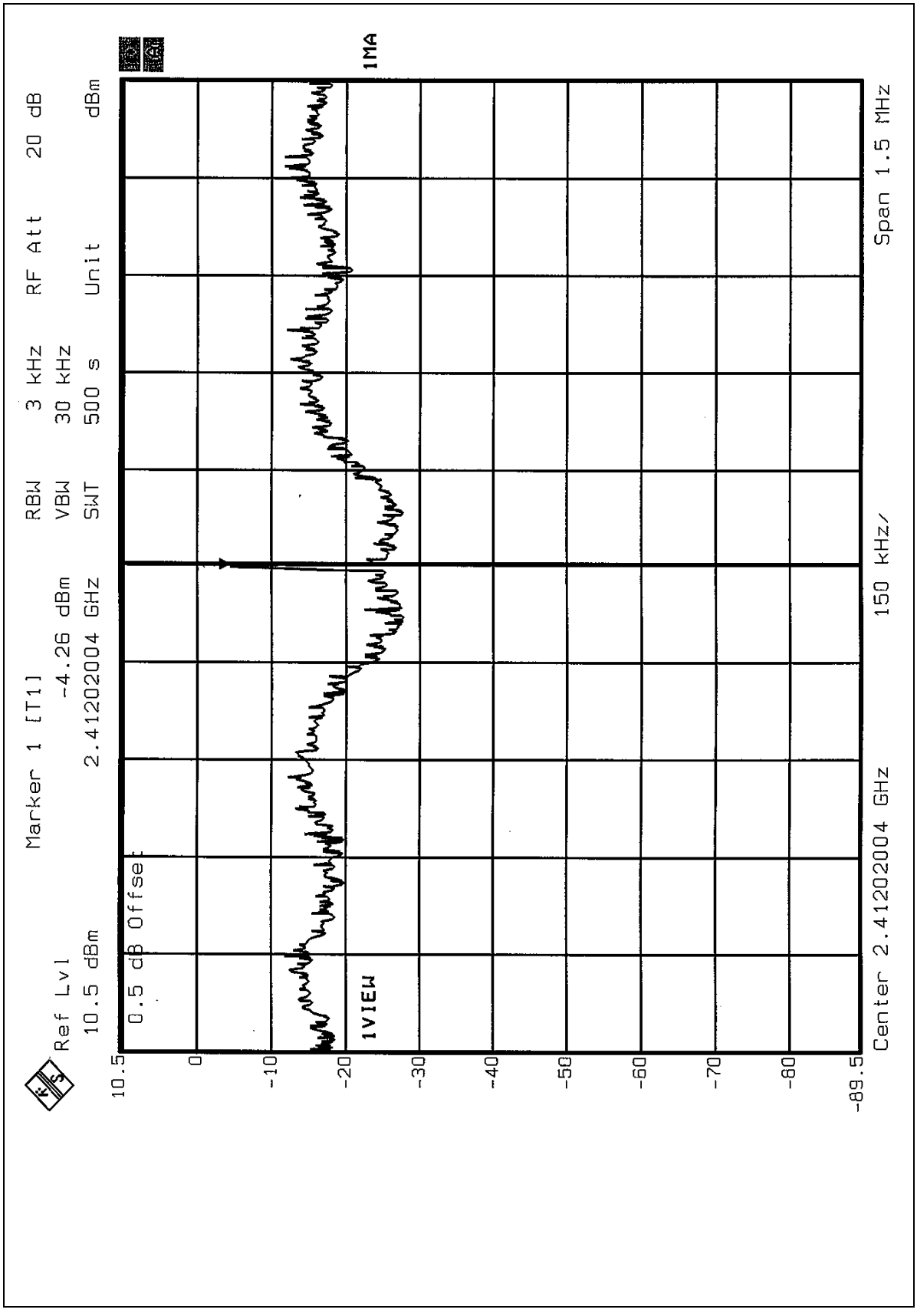

Marker 1 [T1]
-2.75 dBm
2.46201954 GHz
RBW 3 kHz
VBW 30 kHz
SWT 500 s
RF Att 20 dB
Unit dBm
Ref Lvl
10.5 dBm
0.5 dB Offset
1VIEW
1MA
Center 2.462021042 GHz
150 kHz/
Span 1.5 MHz
10.5
0
-10
-20
-30
-40
-50
-60
-70
-80
-89.5

4.5.8 TEST RESULTS (B)

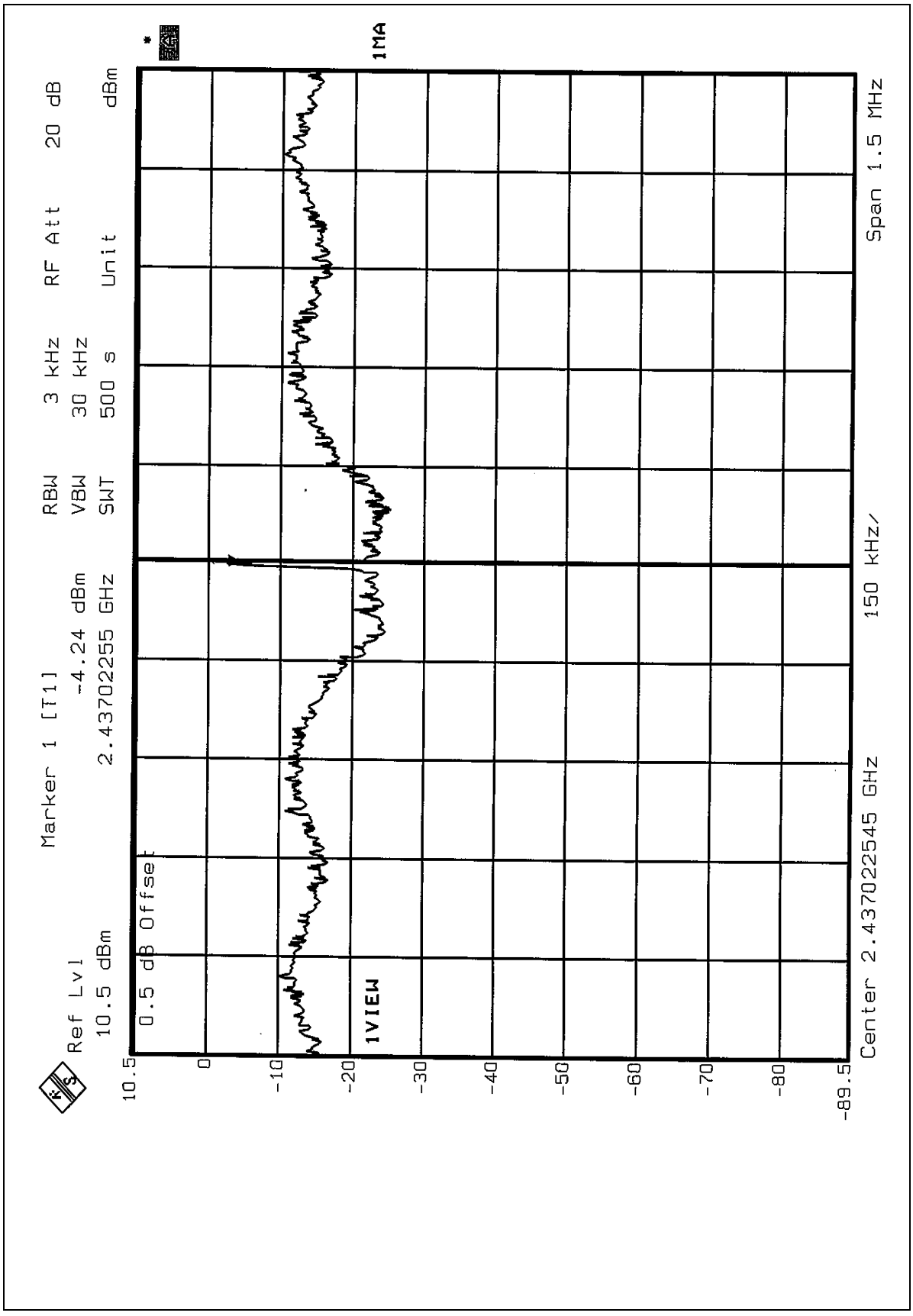
EUT	802.11g Wireless Broadband Router	**MODEL**	WRTA-108GD
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**ENVIRONMENTAL CONDITIONS**	24deg. C, 64%RH, 991hPa
TESTED BY:	Leo Hung		

CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3 kHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	2412	-4.26	8	PASS
6	2437	-4.24	8	PASS
11	2462	-4.16	8	PASS

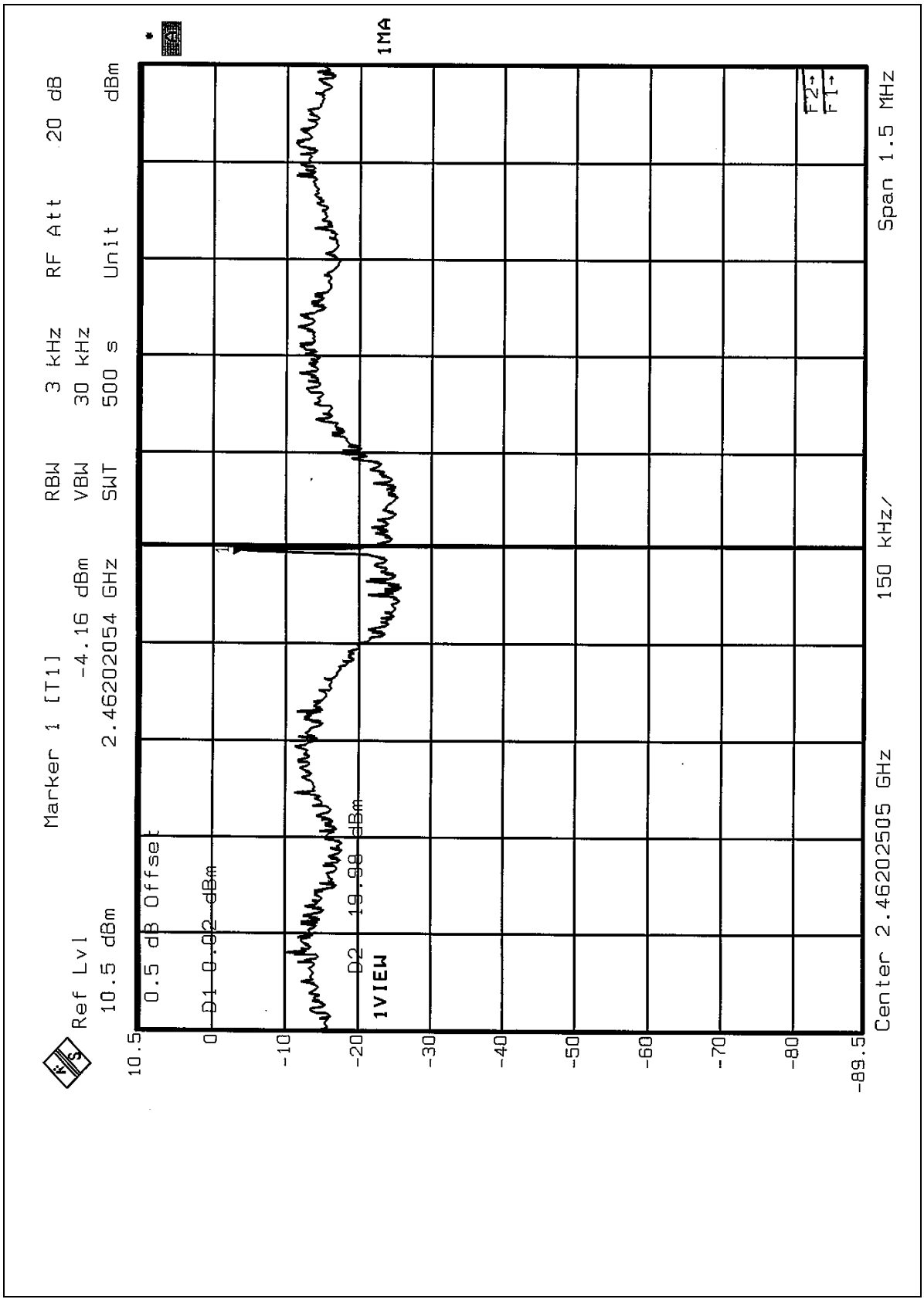
CH1


Marker 1 [T1]
-4.26 dBm
2.41202004 GHz
RBW 3 kHz
VBW 30 kHz
SWT 500 s
RF Att 20 dB
Unit dBm
Ref Lvl
10.5 dBm
0.5 dB Offset
1VIEW
1MA
Center 2.41202004 GHz
150 kHz/
Span 1.5 MHz
10.5
0
-10
-20
-30
-40
-50
-60
-70
-80
-89.5

CH6


Marker 1 [T1]
-4.24 dBm
2.43702255 GHz
RBW 3 kHz
VBW 30 kHz
SWT 500 s
RF Att 20 dB
Unit dBm
Ref Lvl
10.5 dBm
0.5 dB Offset
1VIEW
1MA
Center 2.437022545 GHz
150 kHz/
Span 1.5 MHz
10.5
0
-10
-20
-30
-40
-50
-60
-70
-80
-89.5

CH11


Marker 1 [T1]
-4.16 dBm
2.46202054 GHz
RBW 3 kHz
VBW 30 kHz
SWT 500 s
RF Att 20 dB
Unit dBm
Ref Lvl
10.5 dBm
0.5 dB Offset
D1 0.02 dBm
D2 19.98 dBm
1VIEW
1MA
Center 2.46202505 GHz
150 kHz/
Span 1.5 MHz
F2→
F1→
10.5
0
-10
-20
-30
-40
-50
-60
-70
-80
-89.5

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 10Hz 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 (A)

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).

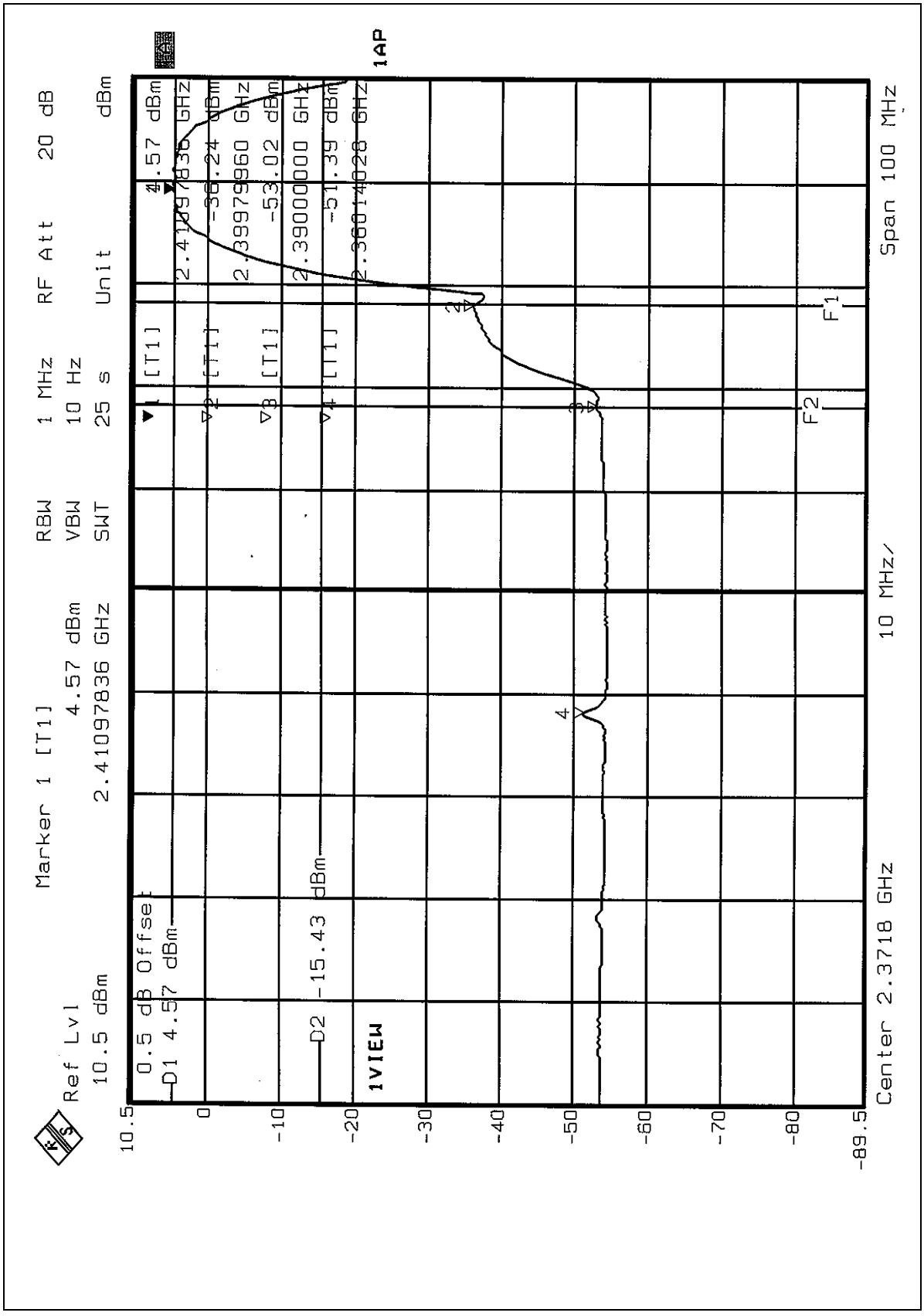
NOTE 1:
The band edge emission plot of CCK technique on the following 1-2 pages shows 55.96lta between carrier maximum power and local maximum emission in restrict band (2.3601GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.8 is 107.53dBuV/m, so the maximum field strength in restrict band is 107.53-55.96=51.57dBuV/m which is under 54dBuV/m limit.

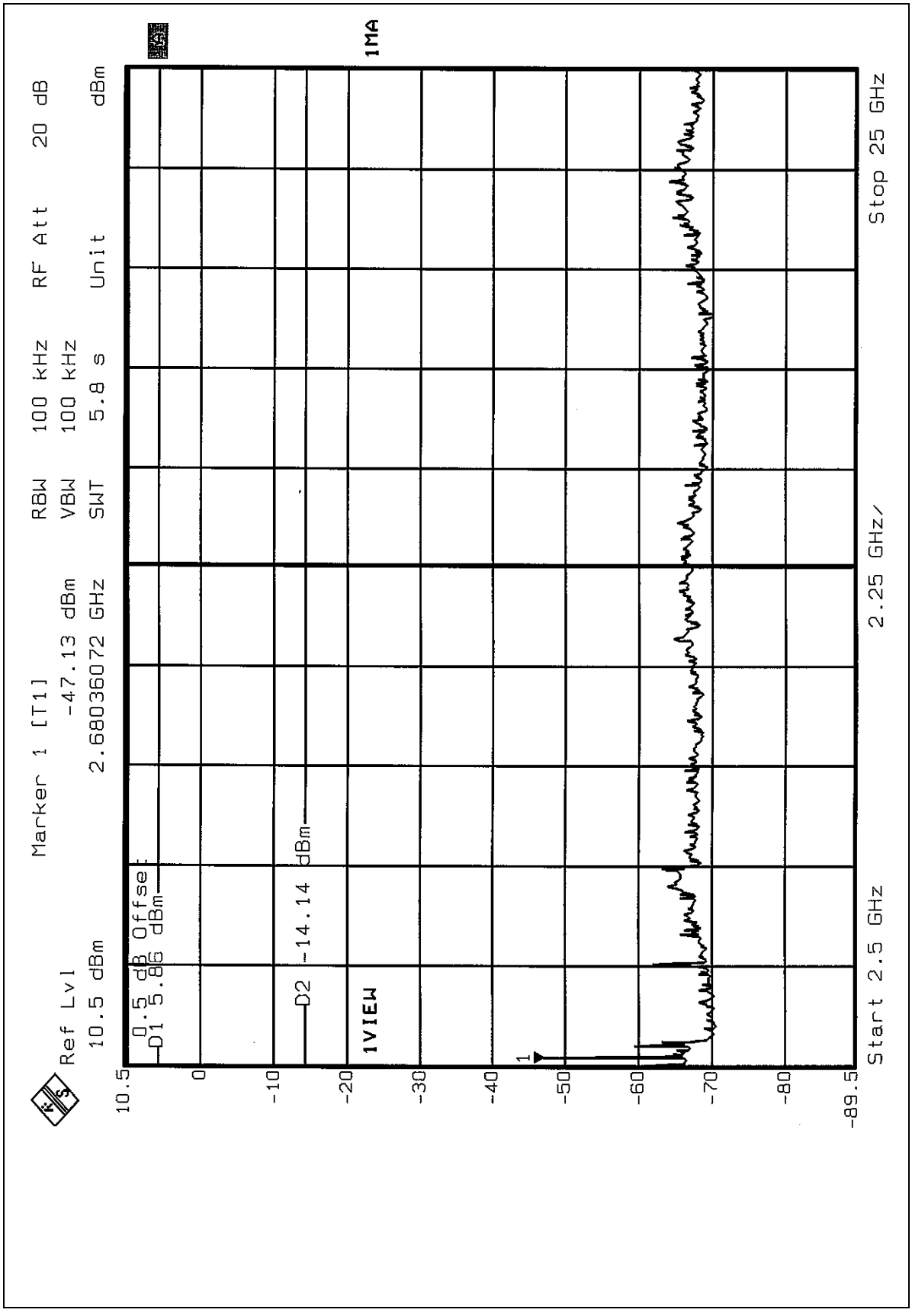
NOTE 2:
The band edge emission plot of CCK technique on the following 3-4 pages shows 59.44dB delta between carrier maximum power and local maximum emission in restrict band (2.4838GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.8 is 105.89dBuV/m, so the maximum field strength in restrict band is 105.89-59.44=46.45dBuV/m which is under 54dBuV/m limit.

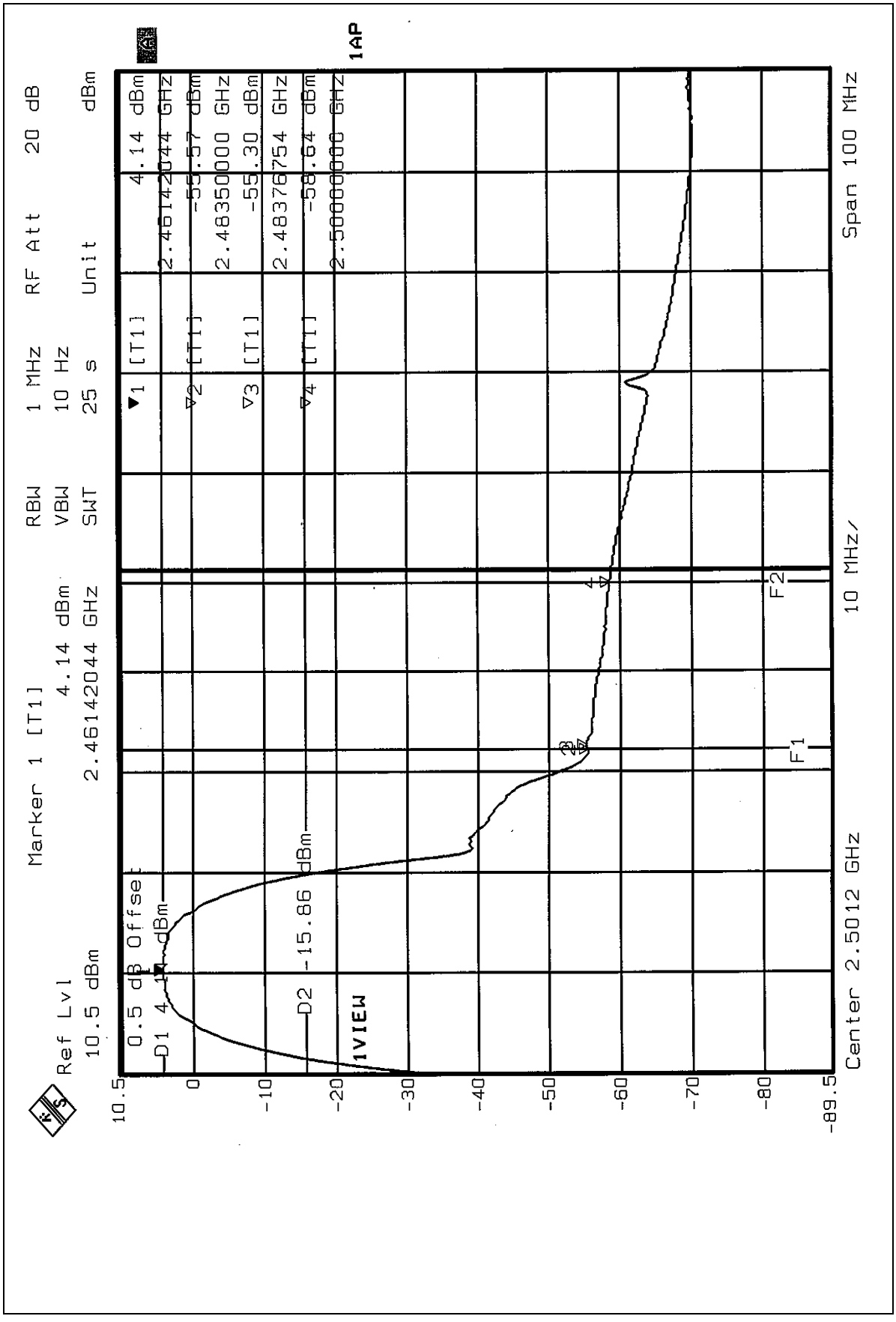
4.6.7 TEST RESULTS (B)

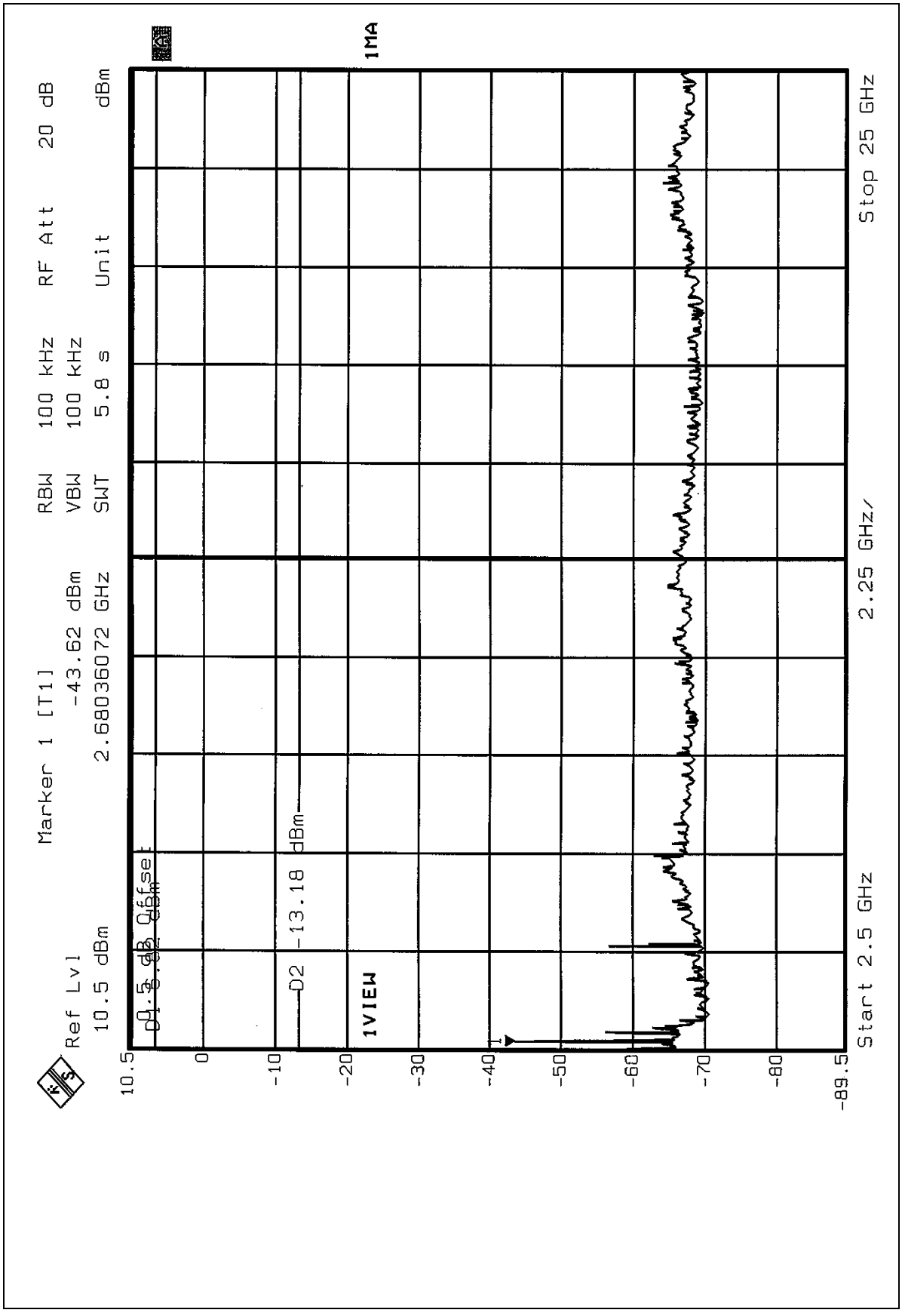
NOTE 1:
The band edge emission plot of OFDM technique on the following 5-6 pages shows 47.98lta between carrier maximum power and local maximum emission in restrict band (2.3601GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.9 is 101.22dBuV/m, so the maximum field strength in restrict band is 101.22-47.98=53.24dBuV/m which is under 54dBuV/m limit.

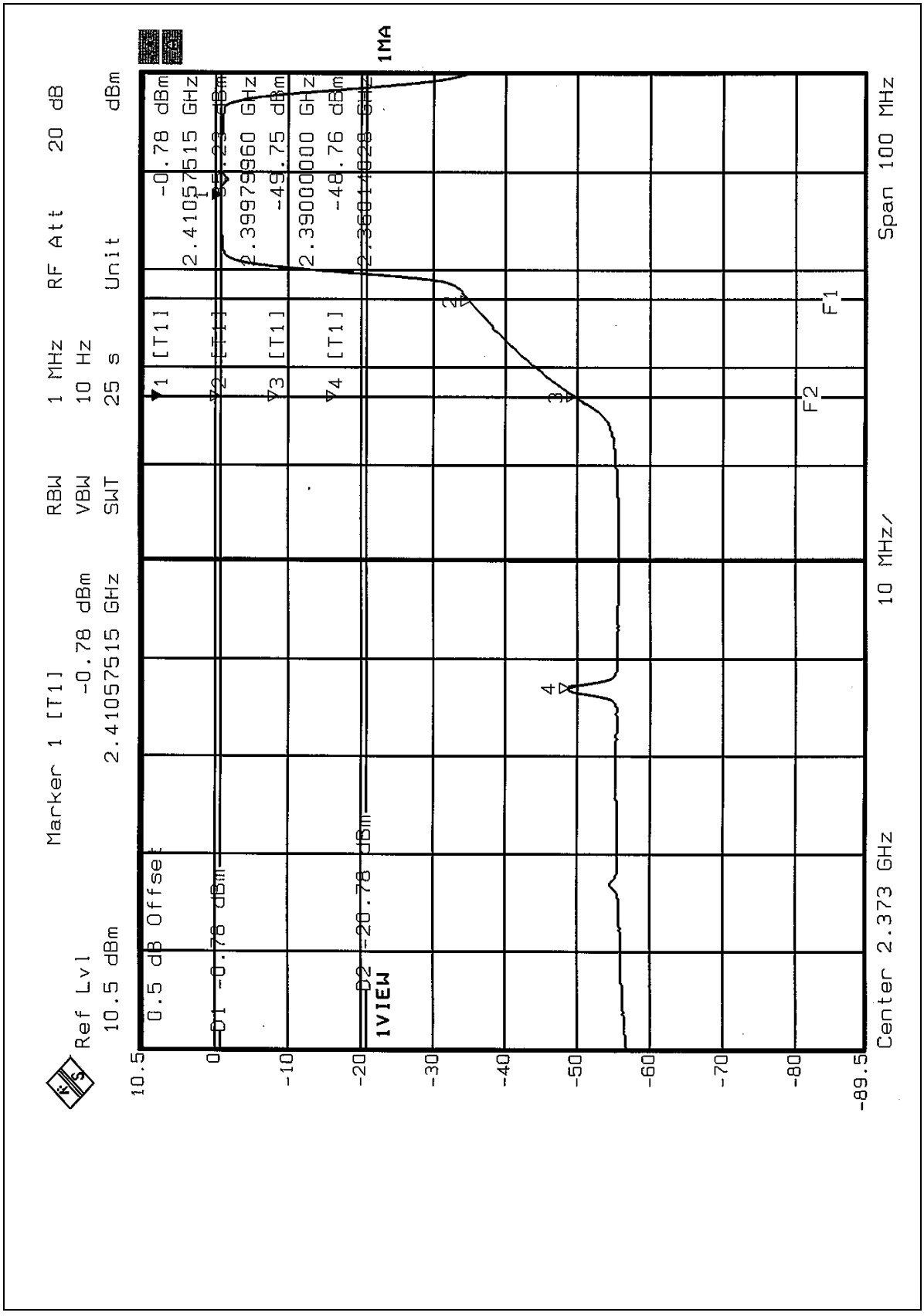
NOTE 2:
The band edge emission plot of OFDM technique on the following 7-8 pages shows 51.00dB delta between carrier maximum power and local maximum emission in restrict band (2.4558GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.9 is 101.07dBuV/m, so the maximum field strength in restrict band is 101.07-51.00=50.07dBuV/m which is under 54dBuV/m limit.

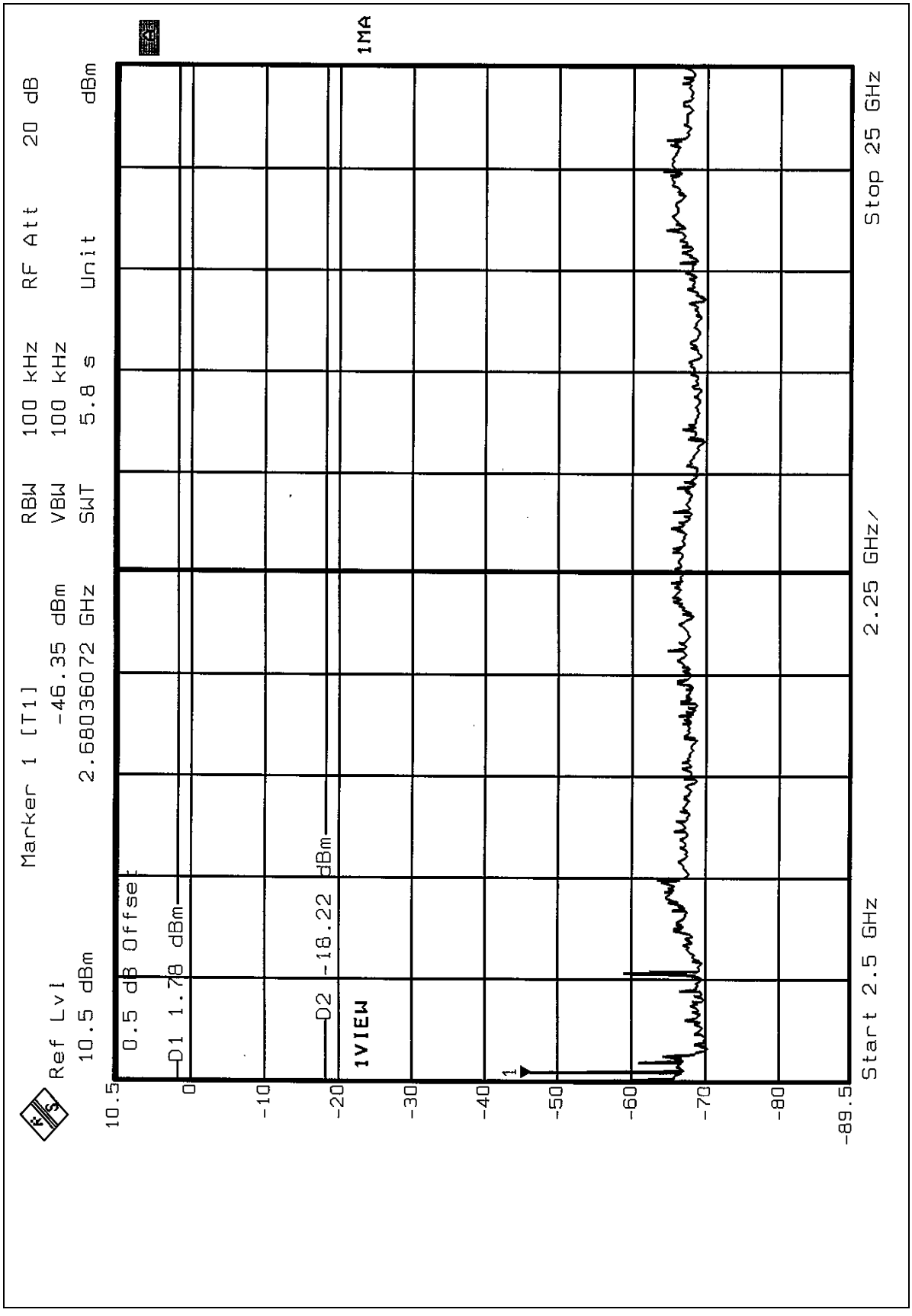

Marker 1 [T1]
4.57 dBm
2.41097836 GHz
Ref Lvl
10.5 dBm
RBW 1 MHz
VBW 10 Hz
SWT 25 s
RF Att 20 dB
Unit dBm
1AP
1VIEW
0.5 dB Offset
D1 4.57 dBm
D2 -15.43 dBm
Center 2.3718 GHz
10 MHz/
Span 100 MHz
F1
F2

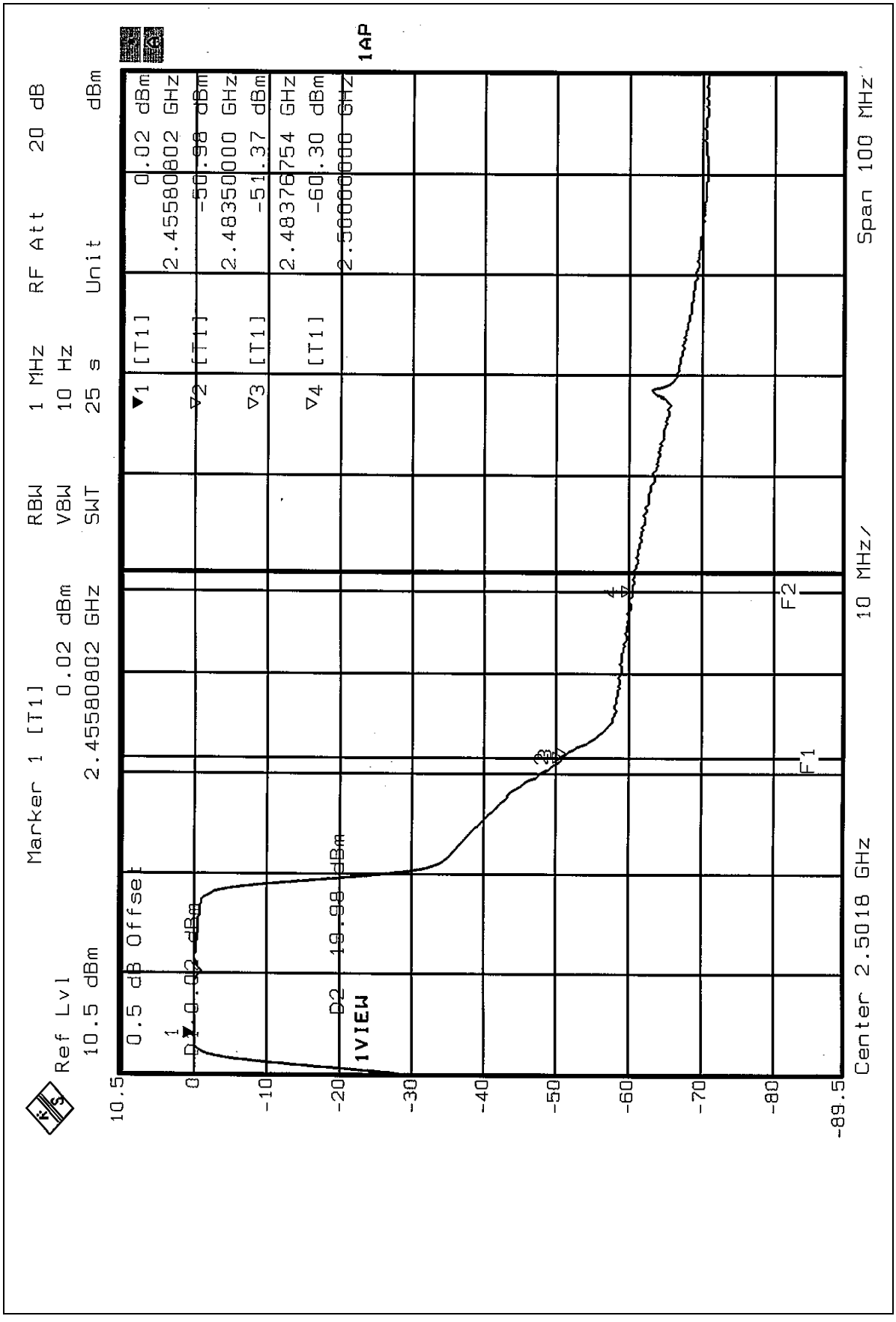

Ref Lvl
10.5 dBm
Marker 1 [T1]
-47.13 dBm
2.68036072 GHz
RBW 100 kHz
VBW 100 kHz
SWT 5.8 s
RF Att 20 dB
Unit dBm
1MA
D1 5.86 dBm
0.5 dB Offset
D2 -14.14 dBm
1VIEW
Start 2.5 GHz
2.25 GHz/
Stop 25 GHz
10.5
0
-10
-20
-30
-40
-50
-60
-70
-80
-89.5

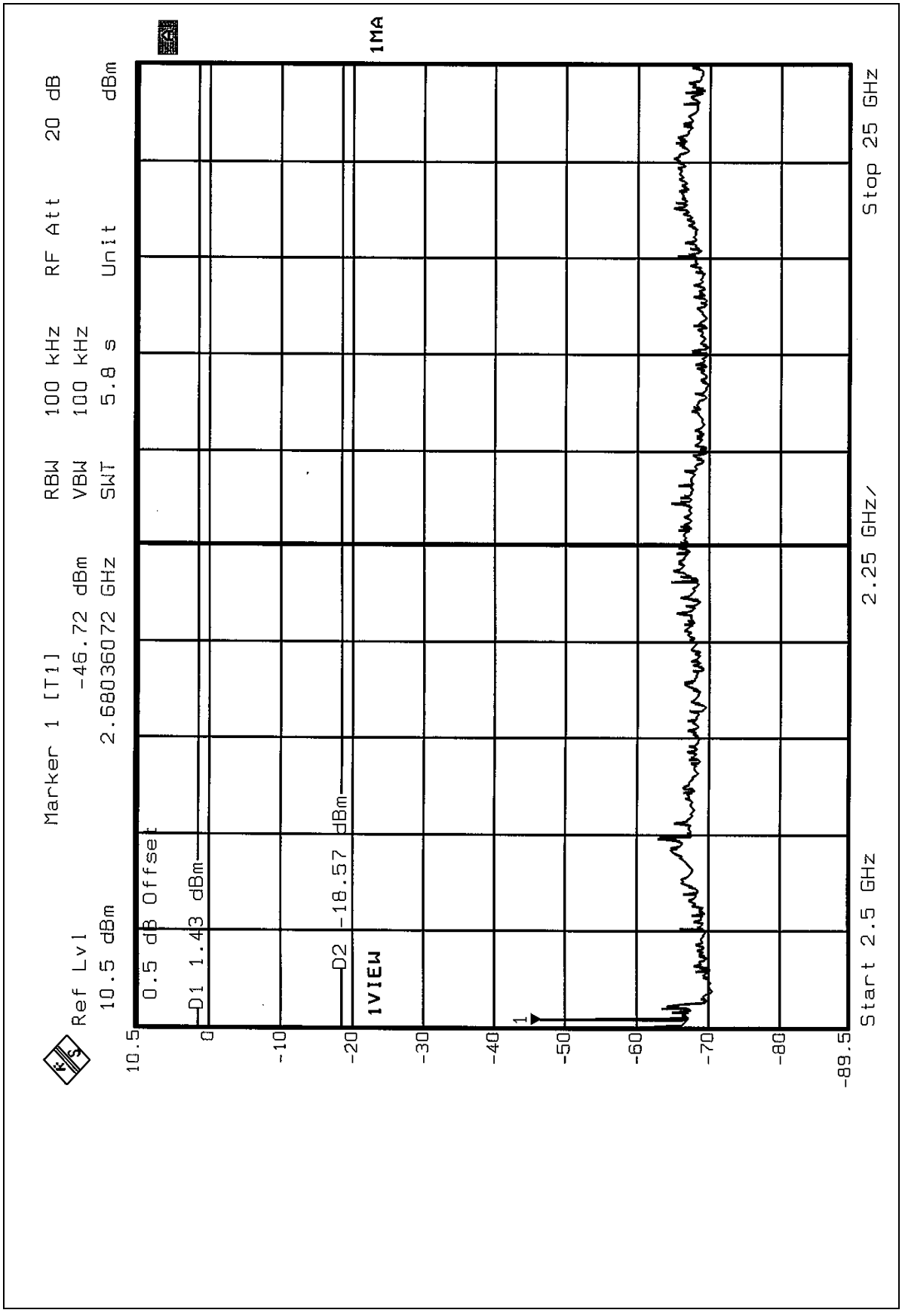

Marker 1 [T1]
4.14 dBm
2.46142044 GHz
RBW 1 MHz
VBW 10 Hz
SWT 25 s
RF Att 20 dB
Unit dBm
Ref Lvl
10.5 dBm
0.5 dB Offset
D1 4.14 dBm
D2 -15.86 dBm
1VIEW
1AP
▼1 [T1] 4.14 dBm 2.46142044 GHz
▽2 [T1] -55.57 dBm 2.48350000 GHz
▽3 [T1] -55.30 dBm 2.48376754 GHz
▽4 [T1] -58.64 dBm 2.50000000 GHz
F1
F2
Center 2.5012 GHz
10 MHz/
Span 100 MHz
10.5
0
-10
-20
-30
-40
-50
-60
-70
-80
-89.5


Marker 1 [T1]
-43.62 dBm
2.68036072 GHz
RBW 100 kHz
VBW 100 kHz
SWT 5.8 s
RF Att 20 dB
Unit dBm
Ref Lvl
10.5 dBm
Offset
0.5 dB
D2 -13.18 dBm
1VIEW
1MA
Start 2.5 GHz
2.25 GHz/
Stop 25 GHz
10.5
0
-10
-20
-30
-40
-50
-60
-70
-80
-89.5


Marker 1 [T1]
-0.78 dBm
2.41057515 GHz
RBW 1 MHz
VBW 10 Hz
SWT 25 s
RF Att 20 dB
Unit dBm
Ref Lvl
10.5 dBm
0.5 dB Offset
1VIEW
1MA
Center 2.373 GHz
10 MHz/
Span 100 MHz
F1
F2


Marker 1 [T1]
-46.35 dBm
2.68036072 GHz
RBW 100 kHz
VBW 100 kHz
SWT 5.8 s
RF Att 20 dB
Unit dBm
Ref Lvl
10.5 dBm
0.5 dB Offset
D1 1.78 dBm
D2 -18.22 dBm
1VIEW
1MA
10.5
0
-10
-20
-30
-40
-50
-60
-70
-80
-89.5
Start 2.5 GHz
2.25 GHz/
Stop 25 GHz


Marker 1 [T1]
0.02 dBm
2.45580802 GHz
RBW 1 MHz
VBW 10 Hz
SWT 25 s
RF Att 20 dB
Unit dBm
Ref Lvl
10.5 dBm
0.5 dB Offset
1VIEW
1AP
Center 2.5018 GHz
10 MHz/
Span 100 MHz
F1
F2
1 [T1] 0.02 dBm 2.45580802 GHz
2 [T1] -50.98 dBm 2.48350000 GHz
3 [T1] -51.37 dBm 2.48376754 GHz
4 [T1] -60.30 dBm 2.50000000 GHz


Marker 1 [T1]
-46.72 dBm
2.68036072 GHz
RBW 100 kHz
VBW 100 kHz
SWT 5.8 s
RF Att 20 dB
Unit dBm
Ref Lvl
10.5 dBm
0.5 dB Offset
D1 1.43 dBm
D2 -18.57 dBm
1VIEW
1MA
Start 2.5 GHz
2.25 GHz/
Stop 25 GHz
10.5
0
-10
-20
-30
-40
-50
-60
-70
-80
-89.5

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

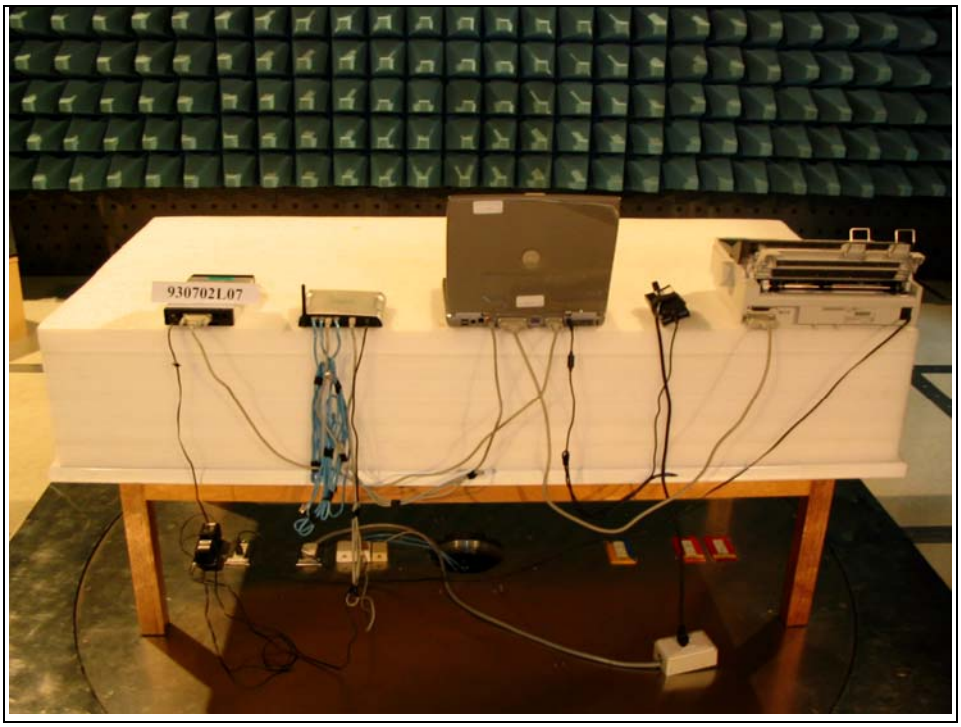
The antenna type used in this product is Dipole antenna without antenna connector.

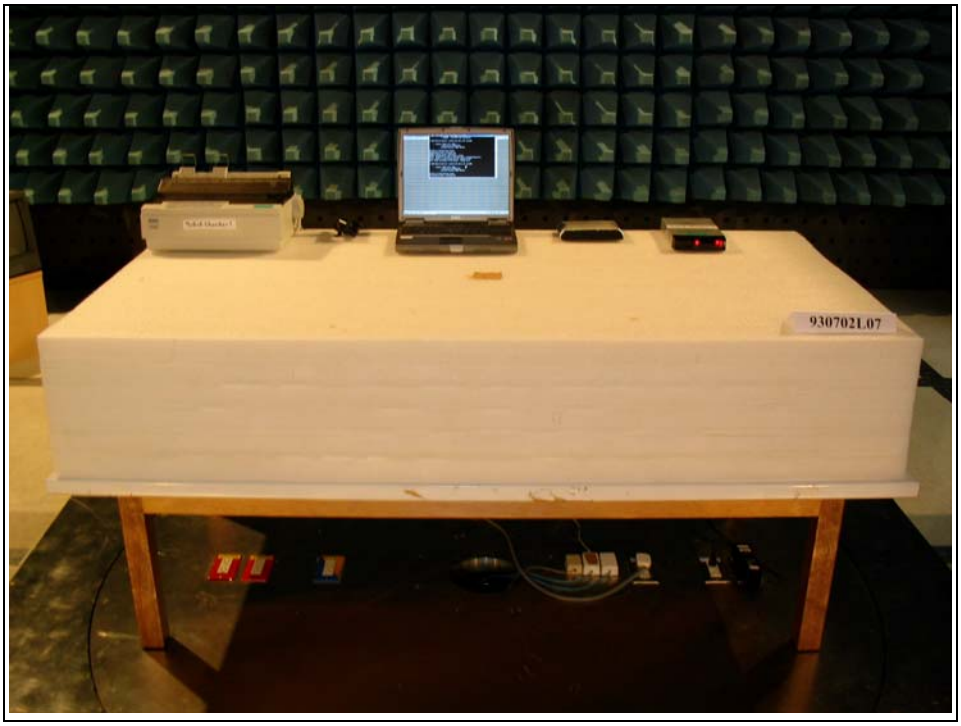
The maximum Gain of this antenna is only 2.0dBi.

5 PHOTOGRAPHS OF THE TEST CONFIGURATION

CONDUCTED EMISSION TEST

RADIATED EMISSION TEST





6 INFORMATION ON THE TESTING LABORATORIES

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

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

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Fax: 886-2-26052943

Hsin Chu EMC/RF Lab:
Tel: 886-3-5935343
Fax: 886-3-5935342

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

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Tel: 886-3-3270910
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The address and road map of all our labs can be found in our web site also.

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