FCC TEST REPORT

REPORT NO. : RF921230R05C
MODEL NO. : WR850Gv3
RECEIVED : Jul. 08, 2004
TESTED : Jul. 08 ~ Oct. 04, 2004

APPLICANT : GENERAL INSTRUMENT CORP.

ADDRESS : 101 Tournament Dr. Horsham, PA 19044 United States of America

ISSUED BY : Advance Data Technology Corporation

LAB ADDRESS : No. 47, 14th Ling, Chia Pau Tsuen, Lin Kou Hsiang 244, Taipei Hsien, Taiwan, R.O.C.

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

ACCREDITED
No. 2177-01

CNLA
0528
ILAC MRA

Table of Contents

1 CERTIFICATION

PRODUCT :	Wireless Broadband Router
MODEL NO. :	WR850Gv3
BRAND :	Motorola
APPLICANT :	GENERAL INSTRUMENT CORP.
TESTED :	Jul. 08 ~ Oct. 04, 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 : _____ , **DATE:** Oct. 06, 2004
(Suntee Liu)

TECHNICAL ACCEPTANCE : _____ , **DATE:** Oct. 06, 2004
Responsible for RF
(Gary Chang)

APPROVED BY : _____ , **DATE:** Oct. 06, 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 –18.06 dB at 0.349 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 –0.18 dB at 3284.00 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	3.73 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	Wireless Broadband Router
MODEL NO.	WR850Gv3
POWER SUPPLY	12Vdc from AC adapter
MODULATION TYPE	BPSK, QPSK, CCK, 16QAM, 64QAM
MODULATION TECHNOLOGY	DSSS, OFDM
TRANSFER RATE	802.11b: 11/5.5/2/1 Mbps 802.11g: 54/48/36/24/18/12/9/6 Mbps
FREQUENCY RANGE	2412MHz ~ 2462MHz
NUMBER OF CHANNEL	11
MAXIMUM OUTPUT POWER	31.915 mW
ANTENNA TYPE	Refer to Note 5
DATA CABLE	NA
I/O PORTS	RJ45
ASSOCIATED DEVICES	NA

NOTE:

1. This report is prepared for FCC class II permissive change. The difference by Pre-Ampilfer + Adapter+dipole antenna with 3.8dBi gain change is for WR850Gv3 for FCC Class II application.
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 EUT was tested with the following adapter.

Brand	Potrans Electrical Corporation
Model	WD411200500
Input Power	120Vac, 60Hz, 11W
Output Power	12Vdc, 500mA

5. There are 2 antennas provided to the EUT.

Antenna	Antenna Type
1	Dipole antenna with 1 dBi gain Printed antenna with –2 dBi gain
2	Dipole antenna with 3.8 dBi gain Printed antenna with –2 dBi gain

6. 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, 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 results A is for CCK technique and the test results B is for OFDM technique.

3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a 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

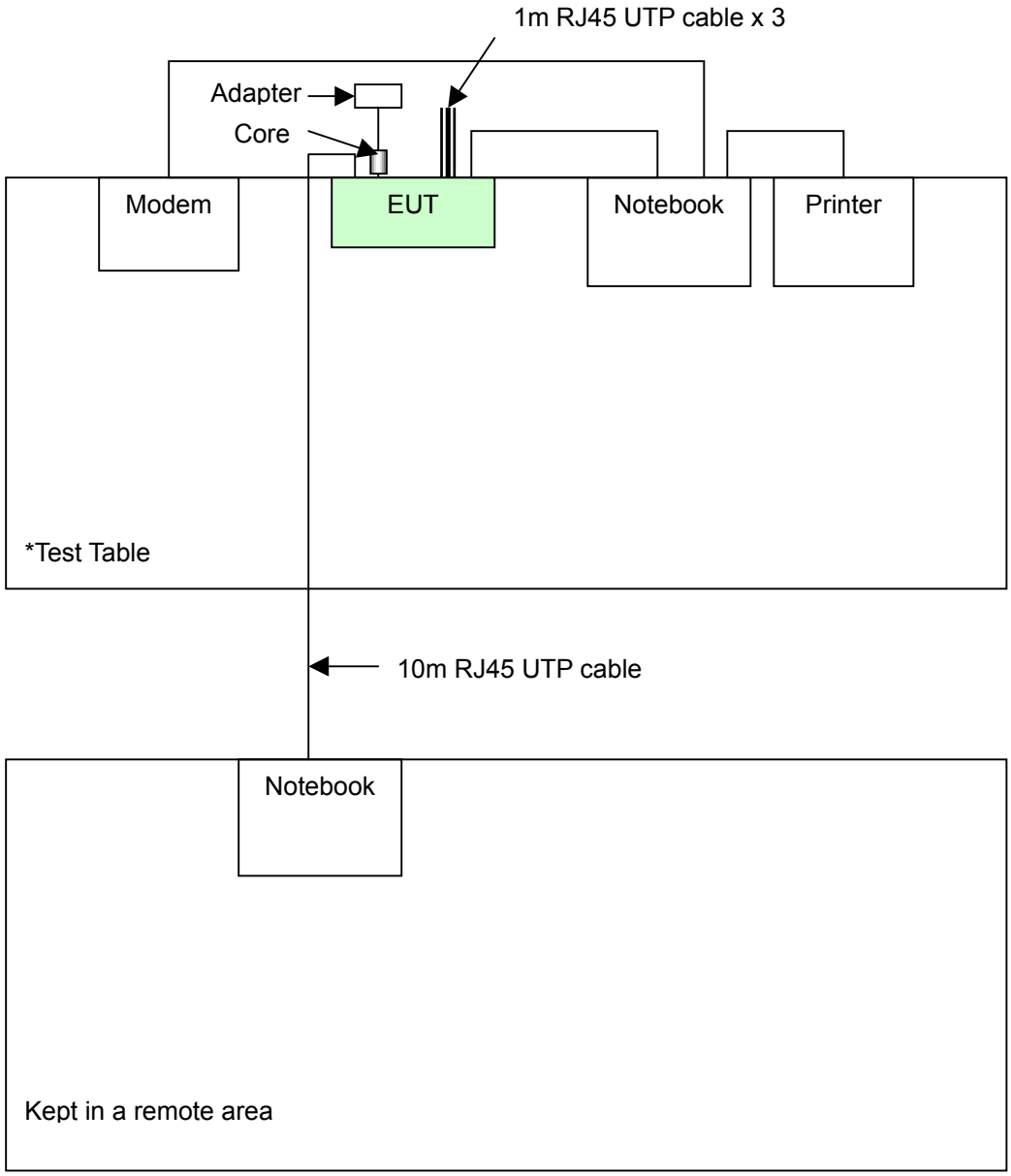
The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	NOTEBOOK	DELL	PP05L	12130898320	E2K24CLNS
2	PRINTER	EPSON	LQ-300+	DCGY054147	FCC DoC Approved
3	MODEM	ACEEX	1414V/3	0401008269	IFAXDM1414
4	NOTEBOOOK	DELL	PP05L	16484462992	E2K24CLNS

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

NOTE: 1. All power cords of the above support units are non shielded (1.8m).
2. Item 4 act 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	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.

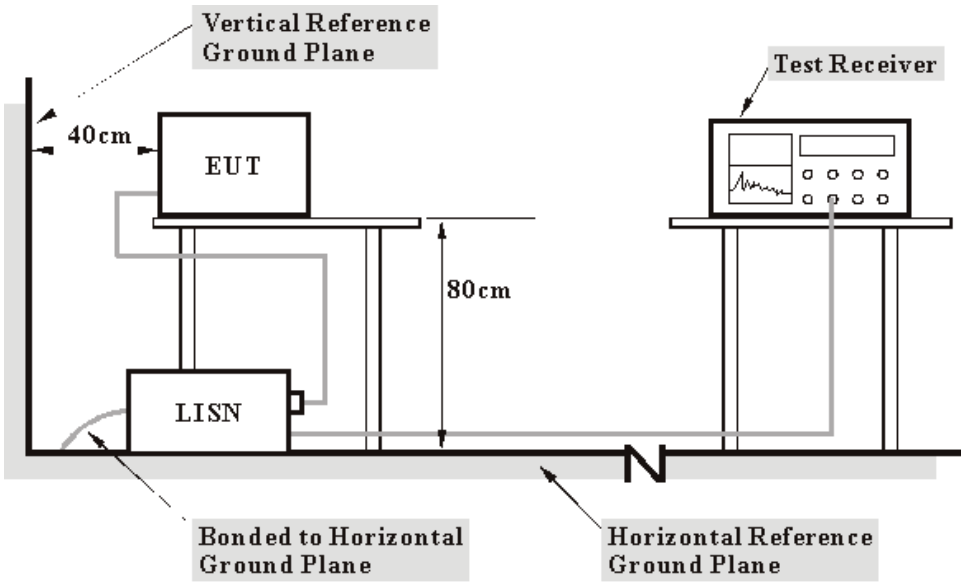
b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

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

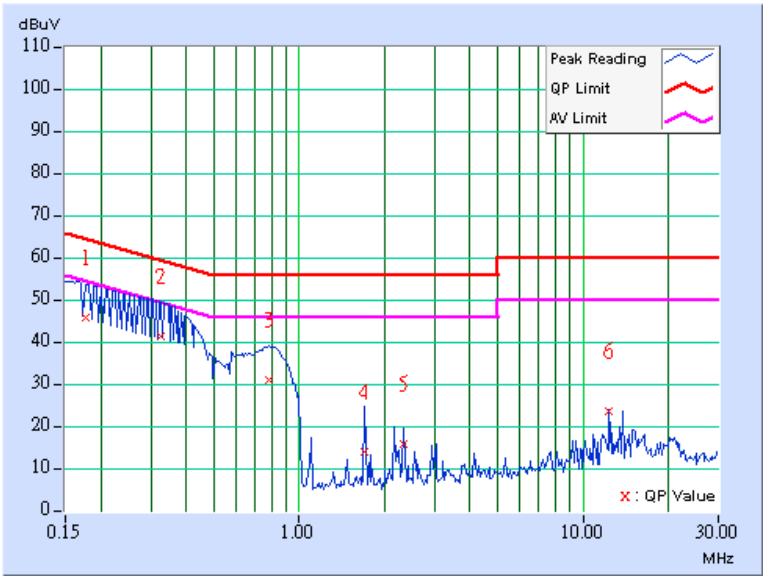
a. Placed the EUT on the testing table.
b. Prepared another notebook system to act as a communication partner and placed it outside of testing area.
c. The communication partner ran a test program (provided by manufacturer) to enable EUT under transmission/receiving condition continuously at specific channel frequency via an RJ45 cable.
d. The communication partner sent data to EUT by command "PING".
e. The notebook displayed the “H” message on its screen.
f. The notebook sent “H” message to the modem.
g. The notebook sent “H” message to the printer and the printer printed it on paper.
h. Steps e~g were repeated.

4.1.7 TEST RESULTS

EUT	Wireless Broadband Router	MODEL	WR850Gv3
CHANNEL	1	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	24 deg. C, 64% RH, 991 hPa	ANTENNA	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	0.177	0.10	45.22	-	45.32	-	64.61	54.61	-19.29	-
2	0.326	0.11	40.78	-	40.89	-	59.56	49.56	-18.67	-
3	0.779	0.20	30.43	-	30.63	-	56.00	46.00	-25.37	-
4	1.703	0.26	13.43	-	13.69	-	56.00	46.00	-42.31	-
5	2.332	0.27	15.37	-	15.64	-	56.00	46.00	-40.36	-
6	12.355	0.61	23.25	-	23.86	-	60.00	50.00	-36.14	-

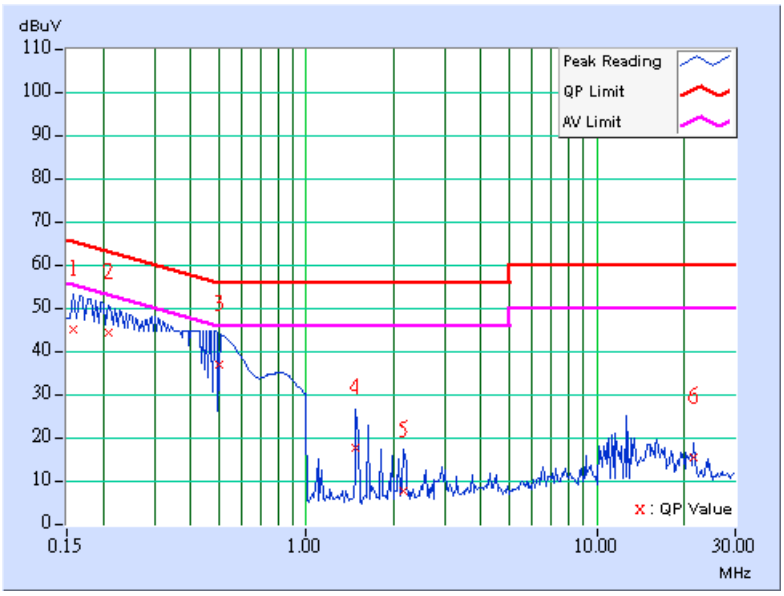
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission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



EUT	Wireless Broadband Router	**MODEL**	WR850Gv3
CHANNEL	1	**6dB BANDWIDTH**	9 kHz
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	**PHASE**	Neutral (N)
ENVIRONMENTAL CONDITIONS	24 deg. C, 64% RH, 991 hPa	**ANTENNA**	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	44.36	-	44.46	-	65.58	55.58	-21.12	-
2	0.209	0.10	43.71	-	43.81	-	63.26	53.26	-19.45	-
3	0.500	0.14	36.31	-	36.45	-	56.00	46.00	-19.55	-
4	1.484	0.24	17.12	-	17.36	-	56.00	46.00	-38.64	-
5	2.160	0.25	7.25	-	7.50	-	56.00	46.00	-48.50	-
6	21.664	0.67	14.79	-	15.46	-	60.00	50.00	-44.54	-

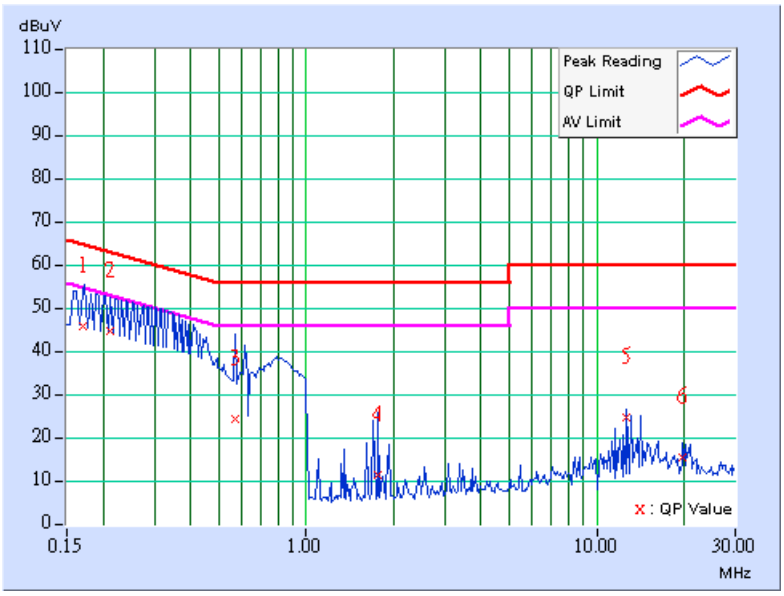
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission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



EUT	Wireless Broadband Router	MODEL	WR850Gv3
CHANNEL	6	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	24 deg. C, 64% RH, 991 hPa	ANTENNA	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	0.170	0.10	44.93	-	45.03	-	64.98	54.98	-19.95	-
2	0.213	0.10	44.04	-	44.14	-	63.11	53.11	-18.97	-
3	0.568	0.15	23.59	-	23.74	-	56.00	46.00	-32.26	-
4	1.770	0.26	10.54	-	10.80	-	56.00	46.00	-45.20	-
5	12.719	0.62	24.09	-	24.71	-	60.00	50.00	-35.29	-
6	19.711	0.91	14.65	-	15.56	-	60.00	50.00	-44.44	-

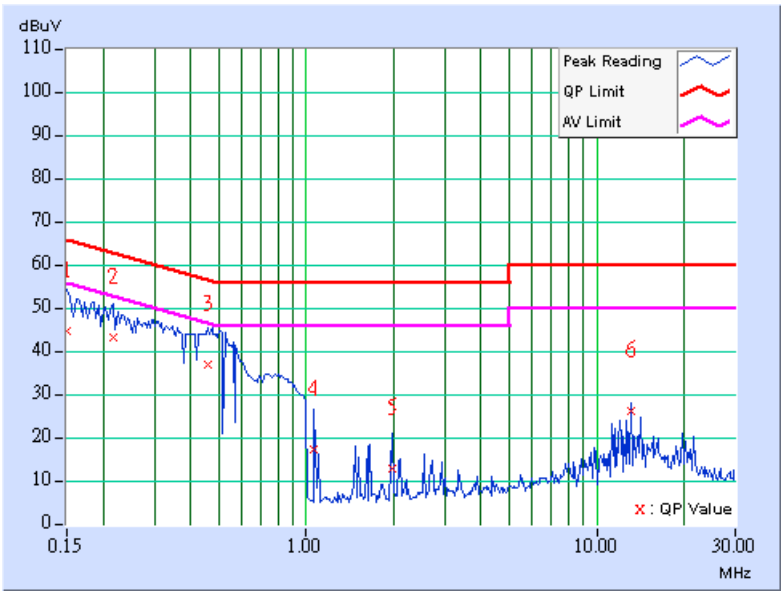
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission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



EUT	Wireless Broadband Router	**MODEL**	WR850Gv3
CHANNEL	6	**6dB BANDWIDTH**	9 kHz
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	**PHASE**	Neutral (N)
ENVIRONMENTAL CONDITIONS	24 deg. C, 64% RH, 991 hPa	**ANTENNA**	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	0.150	0.10	44.35	-	44.45	-	66.00	56.00	-21.55	-
2	0.216	0.10	42.92	-	43.02	-	62.96	52.96	-19.93	-
3	0.459	0.13	36.53	-	36.66	-	56.72	46.72	-20.06	-
4	1.066	0.24	17.01	-	17.25	-	56.00	46.00	-38.75	-
5	1.973	0.25	12.47	-	12.72	-	56.00	46.00	-43.28	-
6	13.078	0.53	25.84	-	26.37	-	60.00	50.00	-33.63	-

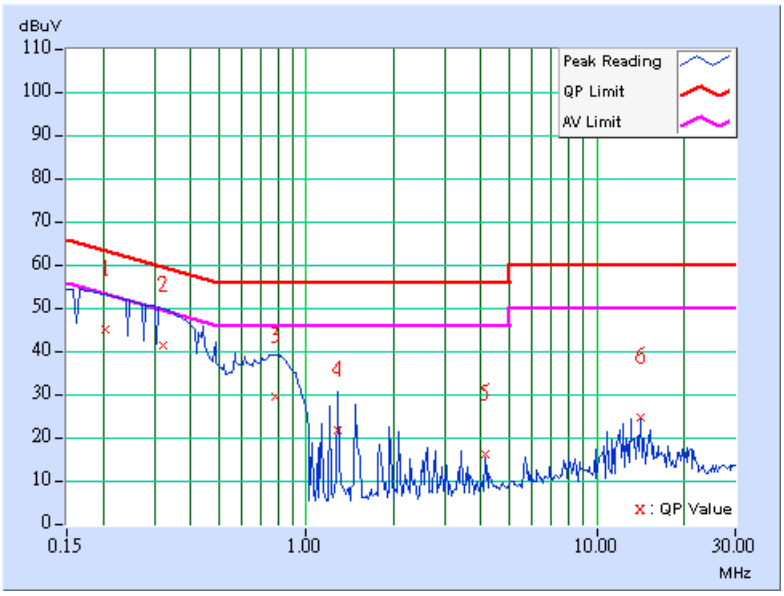
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission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



EUT	Wireless Broadband Router	MODEL	WR850Gv3
CHANNEL	11	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	24 deg. C, 64% RH, 991 hPa	ANTENNA	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	0.205	0.10	44.69	-	44.79	-	63.42	53.42	-18.63	-
2	0.322	0.11	40.86	-	40.97	-	59.66	49.66	-18.69	-
3	0.779	0.20	29.13	-	29.33	-	56.00	46.00	-26.67	-
4	1.285	0.25	21.19	-	21.44	-	56.00	46.00	-34.56	-
5	4.141	0.32	15.78	-	16.10	-	56.00	46.00	-39.90	-
6	14.172	0.67	23.98	-	24.65	-	60.00	50.00	-35.35	-

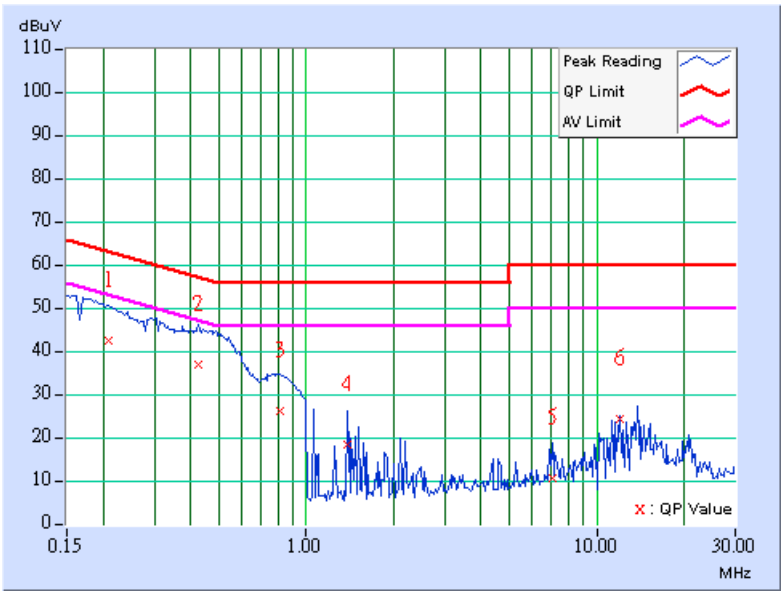
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission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



EUT	Wireless Broadband Router	**MODEL**	WR850Gv3
CHANNEL	11	**6dB BANDWIDTH**	9 kHz
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	**PHASE**	Neutral (N)
ENVIRONMENTAL CONDITIONS	24 deg. C, 64% RH, 991 hPa	**ANTENNA**	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	0.209	0.10	42.09	-	42.19	-	63.26	53.26	-21.07	-
2	0.423	0.12	36.35	-	36.47	-	57.38	47.38	-20.91	-
3	0.810	0.20	25.84	-	26.04	-	56.00	46.00	-29.96	-
4	1.395	0.24	18.06	-	18.30	-	56.00	46.00	-37.70	-
5	7.070	0.42	10.36	-	10.78	-	60.00	50.00	-49.22	-
6	11.988	0.52	24.02	-	24.54	-	60.00	50.00	-35.46	-

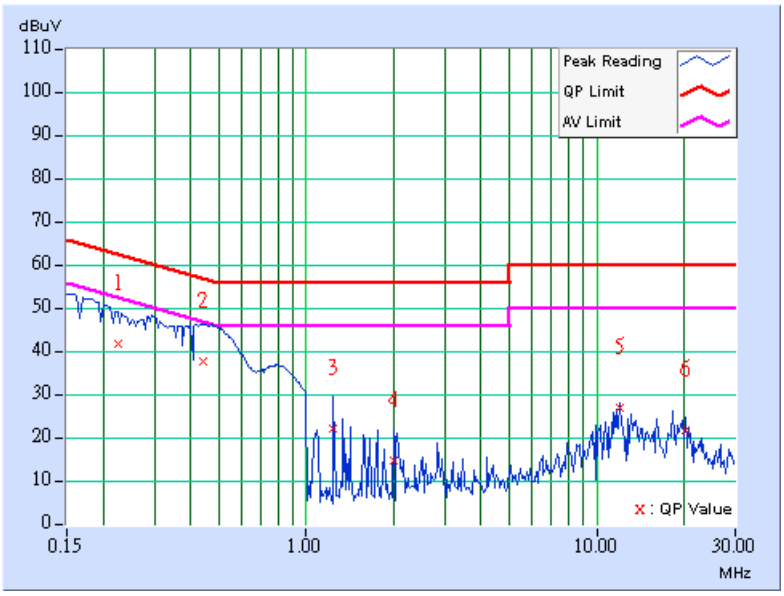
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission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



EUT	Wireless Broadband Router	**MODEL**	WR850Gv3
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	**ANTENNA**	2
TESTED BY	Match Tsui		

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	0.226	0.10	41.06	-	41.16	-	62.59	52.59	-21.43	-
2	0.443	0.12	36.88	-	37.00	-	57.01	47.01	-20.01	-
3	1.242	0.25	21.46	-	21.71	-	56.00	46.00	-34.29	-
4	2.004	0.26	14.06	-	14.32	-	56.00	46.00	-41.68	-
5	12.043	0.60	26.09	-	26.69	-	60.00	50.00	-33.31	-
6	20.199	0.93	21.01	-	21.94	-	60.00	50.00	-38.06	-

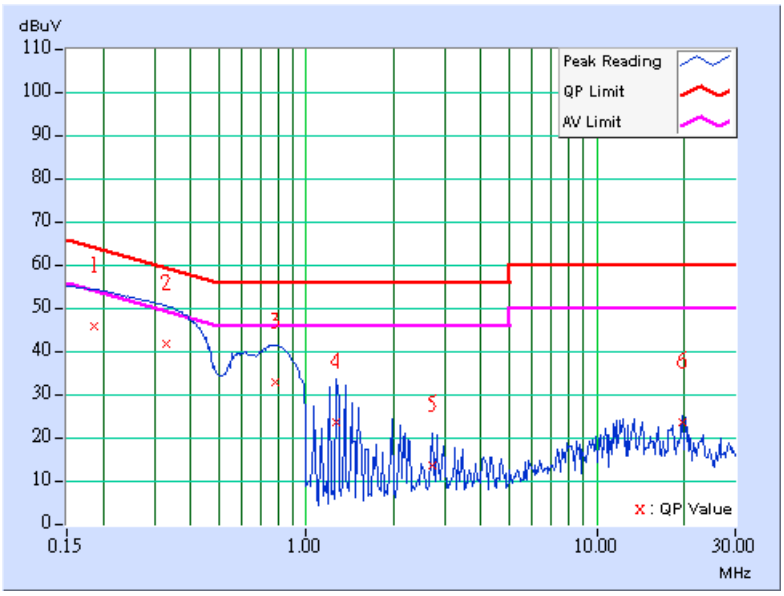
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission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



EUT	Wireless Broadband Router	**MODEL**	WR850Gv3
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	**ANTENNA**	2
TESTED BY	Match Tsui		

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	0.185	0.10	45.16	-	45.26	-	64.25	54.25	-18.99	-
2	0.330	0.11	41.19	-	41.30	-	59.46	49.46	-18.16	-
3	0.779	0.19	32.33	-	32.52	-	56.00	46.00	-23.48	-
4	1.266	0.24	23.24	-	23.48	-	56.00	46.00	-32.52	-
5	2.727	0.27	13.23	-	13.50	-	56.00	46.00	-42.50	-
6	19.707	0.64	23.16	-	23.80	-	60.00	50.00	-36.20	-

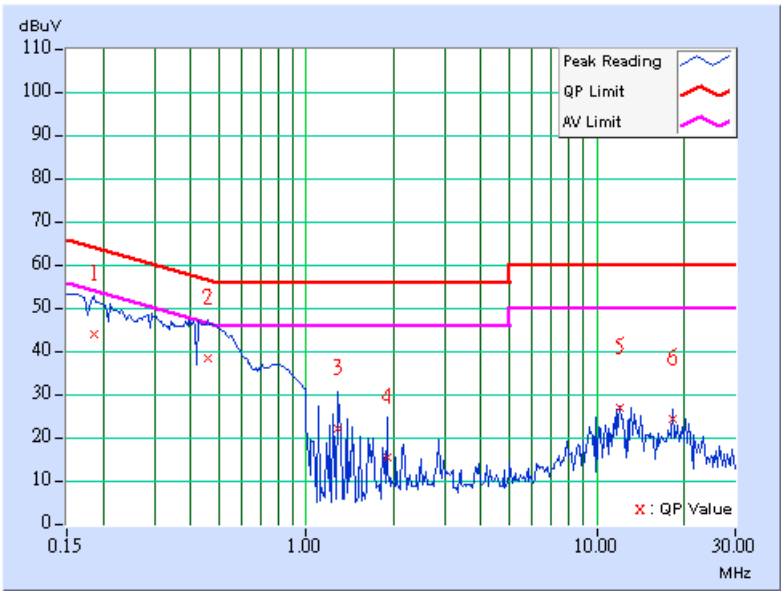
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission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



EUT	Wireless Broadband Router	**MODEL**	WR850Gv3
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	**ANTENNA**	2
TESTED BY	Match Tsui		

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	0.185	0.10	43.21	-	43.31	-	64.25	54.25	-20.94	-
2	0.459	0.13	37.75	-	37.88	-	56.72	46.72	-18.84	-
3	1.277	0.25	21.21	-	21.46	-	56.00	46.00	-34.54	-
4	1.906	0.26	14.67	-	14.93	-	56.00	46.00	-41.07	-
5	12.043	0.60	26.10	-	26.70	-	60.00	50.00	-33.30	-
6	18.246	0.84	23.70	-	24.54	-	60.00	50.00	-35.46	-

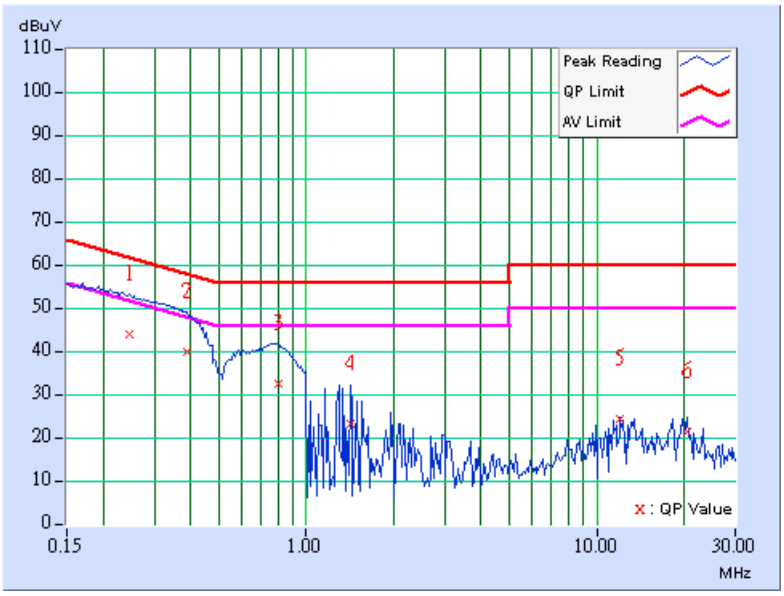
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission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



EUT	Wireless Broadband Router	**MODEL**	WR850Gv3
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	**ANTENNA**	2
TESTED BY	Match Tsui		

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	0.248	0.10	43.25	-	43.35	-	61.84	51.84	-18.48	-
2	0.388	0.11	39.50	-	39.61	-	58.10	48.10	-18.49	-
3	0.798	0.19	31.76	-	31.95	-	56.00	46.00	-24.05	-
4	1.414	0.24	22.77	-	23.01	-	56.00	46.00	-32.99	-
5	12.043	0.52	23.67	-	24.19	-	60.00	50.00	-35.81	-
6	20.379	0.65	20.81	-	21.46	-	60.00	50.00	-38.54	-

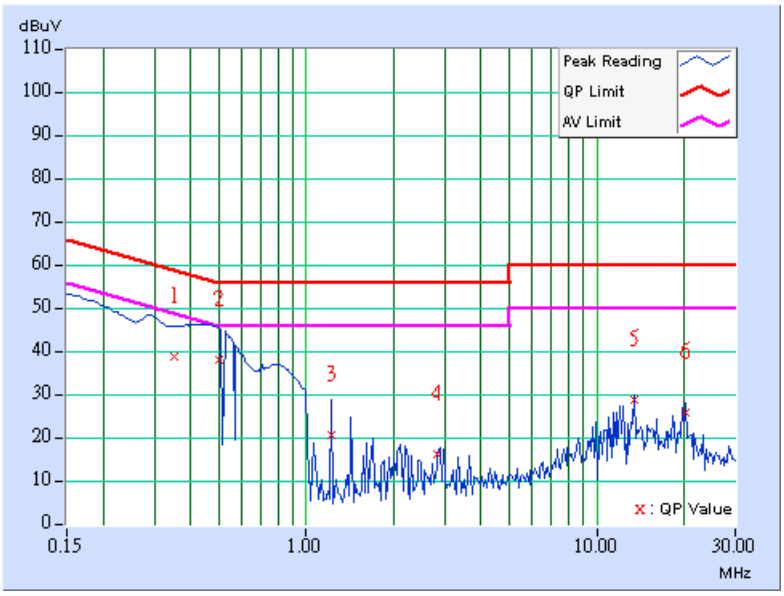
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission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



EUT	Wireless Broadband Router	**MODEL**	WR850Gv3
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	**ANTENNA**	2
TESTED BY	Match Tsui		

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	0.353	0.11	37.94	-	38.05	-	58.90	48.90	-20.85	-
2	0.500	0.14	37.25	-	37.39	-	56.00	46.00	-18.61	-
3	1.223	0.25	19.97	-	20.22	-	56.00	46.00	-35.78	-
4	2.838	0.28	15.47	-	15.75	-	56.00	46.00	-40.25	-
5	13.418	0.65	28.08	-	28.73	-	60.00	50.00	-31.27	-
6	20.258	0.93	25.03	-	25.96	-	60.00	50.00	-34.04	-

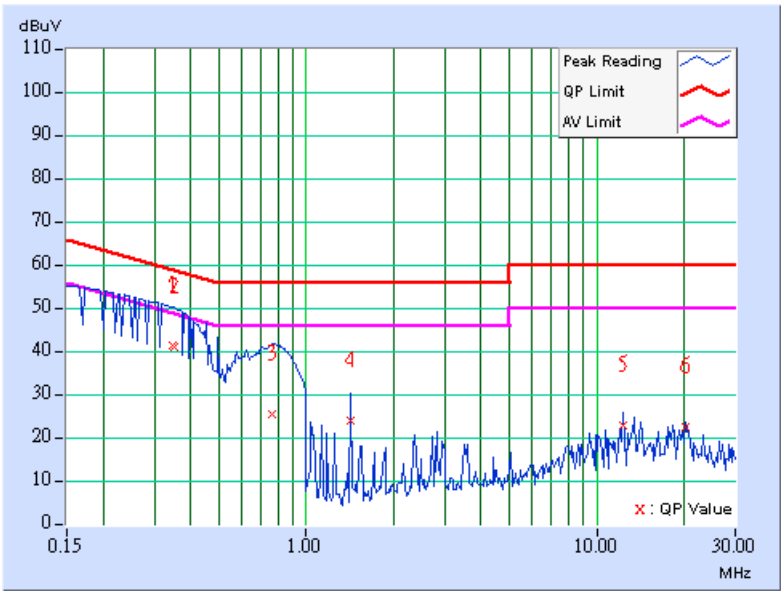
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission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



EUT	Wireless Broadband Router	**MODEL**	WR850Gv3
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	**ANTENNA**	2
TESTED BY	Match Tsui		

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	**0.349**	**0.11**	**40.85**	**-**	**40.96**	**-**	**58.98**	**48.98**	**-18.02**	**-**
2	0.351	0.11	40.30	-	40.41	-	58.94	48.94	-18.53	-
3	0.759	0.18	24.76	-	24.94	-	56.00	46.00	-31.06	-
4	1.418	0.24	23.28	-	23.52	-	56.00	46.00	-32.48	-
5	12.391	0.52	22.28	-	22.80	-	60.00	50.00	-37.20	-
6	20.262	0.65	21.84	-	22.49	-	60.00	50.00	-37.51	-

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 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.

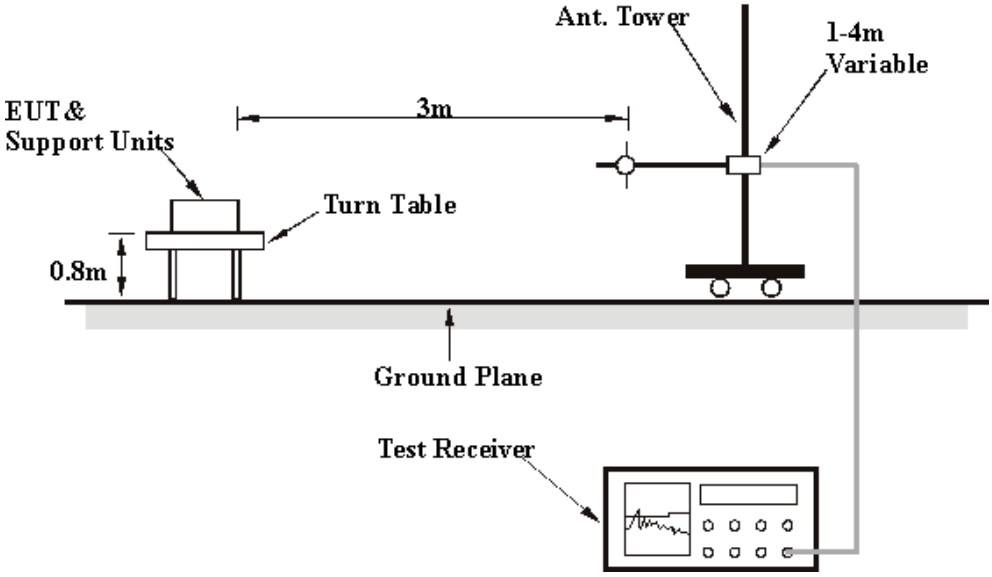
NOTE:

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 Broadband Router	**MODEL**	WR850Gv3
CHANNEL	Channel 11	**FREQUENCY RANGE**	Below 1000 MHz
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	**DETECTOR FUNCTION**	Quasi-Peak
ENVIRONMENTAL CONDITIONS	25 deg. C, 63% RH, 991 hPa	**ANTENNA**	1
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	31.94	30.86 QP	40.00	-9.14	1.00 H	358	16.93	13.93
2	70.82	37.72 QP	40.00	-2.28	1.50 H	304	25.35	12.37
3	98.04	39.31 QP	43.50	-4.19	1.00 H	220	28.48	10.83
4	160.24	34.46 QP	43.50	-9.04	1.25 H	16	19.59	14.87
5	175.79	36.24 QP	43.50	-7.26	1.00 H	214	22.88	13.37
6	201.06	38.57 QP	43.50	-4.93	1.00 H	211	27.16	11.41
7	226.33	36.68 QP	46.00	-9.32	1.00 H	124	24.45	12.23
8	249.66	42.88 QP	46.00	-3.12	1.00 H	175	29.66	13.22
9	274.93	37.16 QP	46.00	-8.84	1.00 H	163	23.19	13.98
10	300.20	39.17 QP	46.00	-6.83	1.75 H	322	24.67	14.50
11	376.01	39.98 QP	46.00	-6.02	1.25 H	340	23.76	16.22
12	500.42	44.75 QP	46.00	-1.25	1.00 H	55	26.01	18.74
13	700.64	42.06 QP	46.00	-3.94	1.25 H	304	19.74	22.32
14	900.86	44.68 QP	46.00	-1.32	1.25 H	265	19.56	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	Wireless Broadband Router	**MODEL**	WR850Gv3
CHANNEL	Channel 11	**FREQUENCY RANGE**	Below 1000 MHz
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	**DETECTOR FUNCTION**	Quasi-Peak
ENVIRONMENTAL CONDITIONS	25 deg. C, 63% RH, 991 hPa	**ANTENNA**	1
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	43.61	36.05 QP	40.00	-3.95	1.00 V	10	20.78	15.28
2	70.82	36.86 QP	40.00	-3.14	1.00 V	307	24.49	12.37
3	98.04	38.78 QP	43.50	-4.72	1.00 V	265	27.95	10.83
4	109.70	35.18 QP	43.50	-8.32	1.00 V	157	23.21	11.97
5	160.24	35.09 QP	43.50	-8.41	1.00 V	16	20.22	14.87
6	201.06	38.55 QP	43.50	-4.95	1.00 V	319	27.14	11.41
7	249.66	43.14 QP	46.00	-2.86	1.00 V	193	29.92	13.22
8	300.20	39.16 QP	46.00	-6.84	1.50 V	292	24.65	14.50
9	376.01	38.80 QP	46.00	-7.20	1.50 V	331	22.57	16.22
10	500.00	44.56 QP	46.00	-1.44	1.00 V	80	25.83	18.73
11	700.64	41.55 QP	46.00	-4.45	1.00 V	217	19.23	22.32
12	900.86	43.79 QP	46.00	-2.21	1.50 V	250	18.67	25.12

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 Broadband Router	**MODEL**	WR850Gv3
CHANNEL	Channel 11	**FREQUENCY RANGE**	Below 1000 MHz
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	**DETECTOR FUNCTION**	Quasi-Peak
ENVIRONMENTAL CONDITIONS	24 deg. C, 64% RH, 991 hPa	**ANTENNA**	2
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	99.98	37.54 QP	43.50	-5.96	2.00 H	262	26.63	10.91
2	199.12	38.28 QP	43.50	-5.22	1.25 H	232	26.93	11.34
3	250.00	44.50 QP	46.00	-1.50	1.16 H	93	31.39	13.11
4	300.20	42.43 QP	46.00	-3.57	1.00 H	220	28.02	14.41
5	375.01	44.83 QP	46.00	-1.17	1.00 H	120	28.70	16.13
6	500.42	44.39 QP	46.00	-1.61	1.50 H	199	25.81	18.58
7	700.64	41.06 QP	46.00	-4.94	1.00 H	307	19.03	22.03
8	900.86	43.94 QP	46.00	-2.06	1.50 H	67	19.12	24.82

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	Wireless Broadband Router	**MODEL**	WR850Gv3
CHANNEL	Channel 11	**FREQUENCY RANGE**	Below 1000 MHz
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	**DETECTOR FUNCTION**	Quasi-Peak
ENVIRONMENTAL CONDITIONS	24 deg. C, 64% RH, 991 hPa	**ANTENNA**	2
TESTED BY	Leo Hung		

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	43.61	38.10 QP	40.00	-1.90	1.00 V	214	22.71	15.39
2	101.92	37.16 QP	43.50	-6.34	1.00 V	10	26.06	11.10
3	199.12	29.21 QP	43.50	-14.29	1.00 V	46	17.87	11.34
4	249.66	39.68 QP	46.00	-6.32	1.50 V	142	26.58	13.11
5	300.20	40.16 QP	46.00	-5.84	1.25 V	178	25.75	14.41
6	374.07	43.47 QP	46.00	-2.53	1.25 V	208	27.37	16.10
7	399.34	34.96 QP	46.00	-11.04	1.50 V	103	18.25	16.71
8	500.42	41.13 QP	46.00	-4.87	1.00 V	127	22.55	18.58
9	599.56	33.10 QP	46.00	-12.90	1.50 V	163	12.28	20.82
10	700.64	38.38 QP	46.00	-7.62	1.00 V	22	16.36	22.03
11	807.56	30.87 QP	46.00	-15.13	1.50 V	13	7.35	23.53
12	900.86	38.99 QP	46.00	-7.01	1.25 V	166	14.17	24.82

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 Broadband Router	**MODEL**	WR850Gv3
CHANNEL	1	**FREQUENCY RANGE**	1 ~ 25 GHz
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	26 deg. C, 63% RH, 991 hPa	**ANTENNA**	1
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	1100.00	43.87 PK	74.00	-30.13	1.30 H	72	16.96	26.91
1	1100.00	38.16 AV	54.00	-15.84	1.30 H	72	11.25	26.91
2	1200.00	41.22 PK	74.00	-32.78	1.28 H	266	13.89	27.33
2	1200.00	34.16 AV	54.00	-19.84	1.28 H	266	6.83	27.33
3	1300.00	42.25 PK	74.00	-31.75	1.20 H	204	14.39	27.86
3	1300.00	36.10 AV	54.00	-17.90	1.20 H	204	8.24	27.86
4	1608.00	47.17 PK	74.00	-26.83	1.00 H	237	19.43	27.75
4	1608.00	43.41 AV	54.00	-10.59	1.00 H	237	15.67	27.75
5	2002.40	42.36 PK	74.00	-31.64	1.32 H	108	13.16	29.20
5	2002.40	31.36 AV	54.00	-22.64	1.32 H	108	2.16	29.20
6	2202.60	44.29 PK	74.00	-29.71	1.04 H	20	14.41	29.88
6	2202.60	35.71 AV	54.00	-18.29	1.04 H	20	5.83	29.88
7	2390.00	48.62 PK	74.00	-25.38	1.36 H	220	17.83	30.79
7	2390.00	41.89 AV	54.00	-12.11	1.36 H	220	11.10	30.79
8	*2412.00	107.05 PK			1.36 H	220	76.17	30.88
8	*2412.00	100.32 AV			1.36 H	220	69.44	30.88
9	3216.00	54.43 PK	74.00	-19.57	1.13 H	20	21.56	32.86
9	3216.00	50.76 AV	54.00	-3.24	1.13 H	20	17.89	32.86
10	4824.00	51.40 PK	74.00	-22.60	1.30 H	346	14.95	36.45
10	4824.00	46.17 AV	54.00	-7.83	1.30 H	346	9.72	36.45

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 Broadband Router	**MODEL**	WR850Gv3
CHANNEL	1	**FREQUENCY RANGE**	1 ~ 25 GHz
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	26 deg. C, 63% RH, 991 hPa	**ANTENNA**	1
TESTED BY	Match Tsui		

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	1100.00	55.15 PK	74.00	-18.85	1.16 V	270	28.24	26.91
1	1100.00	48.82 AV	54.00	-5.18	1.16 V	270	21.91	26.91
2	1201.56	44.79 PK	74.00	-29.21	1.00 V	323	17.45	27.34
2	1201.56	39.67 AV	54.00	-14.33	1.00 V	323	12.33	27.34
3	1300.00	45.04 PK	74.00	-28.96	1.42 V	313	17.18	27.86
3	1300.00	39.74 AV	54.00	-14.26	1.42 V	313	11.88	27.86
4	1608.00	46.96 PK	74.00	-27.04	1.00 V	68	19.22	27.75
4	1608.00	40.14 AV	54.00	-13.86	1.00 V	68	12.40	27.75
5	2002.44	43.54 PK	74.00	-30.46	1.00 V	310	14.34	29.20
5	2002.44	37.72 AV	54.00	-16.28	1.00 V	310	8.52	29.20
6	2202.00	48.86 PK	74.00	-25.14	1.00 V	0	18.98	29.88
6	2202.00	41.55 AV	54.00	-12.45	1.00 V	0	11.67	29.88
7	2390.00	52.84 PK	74.00	-21.16	1.06 V	309	22.05	30.79
7	2390.00	46.12 AV	54.00	-7.88	1.06 V	309	15.33	30.79
8	*2412.00	111.27 PK			1.06 V	309	80.39	30.88
8	*2412.00	104.55 AV			1.06 V	309	73.67	30.88
9	3216.00	62.55 PK	91.27	-28.72	1.15 V	19	29.69	32.86
9	3216.00	61.23 AV	84.55	-23.32	1.15 V	19	28.37	32.86
10	4824.00	53.60 PK	74.00	-20.40	1.00 V	294	17.15	36.45
10	4824.00	49.63 AV	54.00	-4.37	1.00 V	294	13.18	36.45

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 Broadband Router	**MODEL**	WR850Gv3
CHANNEL	6	**FREQUENCY RANGE**	1 ~ 25 GHz
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	26 deg. C, 63% RH, 991 hPa	**ANTENNA**	1
TESTED BY	Match Tsui		

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	1100.00	44.32 PK	74.00	-29.68	1.30 H	84	17.41	26.91
1	1100.00	37.32 AV	54.00	-16.68	1.30 H	84	10.41	26.91
2	1200.00	41.57 PK	74.00	-32.43	1.27 H	273	14.24	27.33
2	1200.00	34.21 AV	54.00	-19.79	1.27 H	273	6.88	27.33
3	1300.00	43.39 PK	74.00	-30.61	1.21 H	221	15.53	27.86
3	1300.00	37.25 AV	54.00	-16.75	1.21 H	221	9.39	27.86
4	1624.56	46.35 PK	74.00	-27.65	1.00 H	238	18.58	27.77
4	1624.56	42.63 AV	54.00	-11.37	1.00 H	238	14.86	27.77
5	2320.00	51.33 PK	74.00	-22.67	1.22 H	301	20.83	30.50
5	2320.00	43.38 AV	54.00	-10.62	1.22 H	301	12.88	30.50
6	*2437.00	106.35 PK			1.33 H	214	75.37	30.98
6	*2437.00	100.00 AV			1.33 H	214	69.02	30.98
7	3249.33	53.31 PK	74.00	-20.69	1.00 H	20	20.46	32.85
7	3249.33	49.78 AV	54.00	-4.22	1.00 H	20	16.93	32.85
8	4874.00	51.32 PK	74.00	-22.68	1.30 H	333	14.71	36.61
8	4874.00	46.32 AV	54.00	-7.68	1.30 H	333	9.71	36.61

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 Broadband Router	**MODEL**	WR850Gv3
CHANNEL	6	**FREQUENCY RANGE**	1 ~ 25 GHz
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	26 deg. C, 63% RH, 991 hPa	**ANTENNA**	1
TESTED BY	Match Tsui		

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	1101.25	53.97 PK	74.00	-20.03	1.05 V	292	27.05	26.91
1	1101.25	46.60 AV	54.00	-7.40	1.05 V	292	19.68	26.91
2	1201.46	47.90 PK	74.00	-26.10	1.41 V	288	20.56	27.34
2	1201.46	41.22 AV	54.00	-12.78	1.41 V	288	13.88	27.34
3	1300.00	45.86 PK	74.00	-28.14	1.41 V	312	18.00	27.86
3	1300.00	40.11 AV	54.00	-13.89	1.41 V	312	12.25	27.86
4	1624.67	47.80 PK	74.00	-26.20	1.34 V	82	20.03	27.77
4	1624.67	44.46 AV	54.00	-9.54	1.34 V	82	16.69	27.77
5	2202.60	47.86 PK	74.00	-26.14	1.02 V	352	17.98	29.88
5	2202.60	41.32 AV	54.00	-12.68	1.02 V	352	11.44	29.88
6	*2437.00	110.21 PK			1.10 V	289	79.23	30.98
6	*2437.00	103.14 AV			1.10 V	289	72.16	30.98
7	3249.32	61.06 PK	90.21	-29.15	1.02 V	283	28.21	32.85
7	3249.32	59.07 AV	83.14	-24.07	1.02 V	283	26.22	32.85
8	4874.00	53.63 PK	74.00	-20.37	1.09 V	36	17.02	36.61
8	4874.00	49.57 AV	54.00	-4.43	1.09 V	36	12.96	36.61

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 Broadband Router	**MODEL**	WR850Gv3
CHANNEL	11	**FREQUENCY RANGE**	1 ~ 25 GHz
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	26 deg. C, 63% RH, 991 hPa	**ANTENNA**	1
TESTED BY	Match Tsui		

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	1100.00	43.87 PK	74.00	-30.13	1.23 H	73	16.96	26.91
1	1100.00	36.83 AV	54.00	-17.17	1.23 H	73	9.92	26.91
2	1200.00	42.57 PK	74.00	-31.43	1.27 H	272	15.24	27.33
2	1200.00	34.16 AV	54.00	-19.84	1.27 H	272	6.83	27.33
3	1300.00	43.24 PK	74.00	-30.76	1.23 H	220	15.38	27.86
3	1300.00	36.28 AV	54.00	-17.72	1.23 H	220	8.42	27.86
4	1641.32	47.93 PK	74.00	-26.07	1.23 H	237	20.13	27.80
4	1641.32	43.34 AV	54.00	-10.66	1.23 H	237	15.54	27.80
5	2202.54	44.20 PK	74.00	-29.80	1.04 H	292	14.32	29.88
5	2202.54	35.97 AV	54.00	-18.03	1.04 H	292	6.09	29.88
6	2320.00	49.56 PK	74.00	-24.44	1.32 H	302	19.06	30.50
6	2320.00	44.70 AV	54.00	-9.30	1.32 H	302	14.20	30.50
7	*2462.00	105.21 PK			1.36 H	210	74.13	31.08
7	*2462.00	99.32 AV			1.36 H	210	68.24	31.08
8	2483.50	43.65 PK	74.00	-30.35	1.36 H	210	12.48	31.17
8	2483.50	37.76 AV	54.00	-16.24	1.36 H	210	6.59	31.17
9	3282.64	51.85 PK	74.00	-22.15	1.00 H	20	19.01	32.84
9	3282.64	47.65 AV	54.00	-6.35	1.00 H	20	14.81	32.84
10	4924.00	51.68 PK	74.00	-22.32	1.30 H	322	14.88	36.80
10	4924.00	46.00 AV	54.00	-8.00	1.30 H	322	9.20	36.80

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

EUT	Wireless Broadband Router	**MODEL**	WR850Gv3
CHANNEL	11	**FREQUENCY RANGE**	1 ~ 25 GHz
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	26 deg. C, 63% RH, 991 hPa	**ANTENNA**	1
TESTED BY	Match Tsui		

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	1100.00	54.08 PK	74.00	-19.92	1.07 V	312	27.17	26.91
1	1100.00	46.23 AV	54.00	-7.77	1.07 V	312	19.32	26.91
2	1201.00	55.32 PK	74.00	-18.68	1.13 V	268	27.98	27.34
2	1201.00	48.82 AV	54.00	-5.18	1.13 V	268	21.48	27.34
3	1300.00	47.00 PK	74.00	-27.00	1.40 V	316	19.14	27.86
3	1300.00	40.47 AV	54.00	-13.53	1.40 V	316	12.61	27.86
4	1641.32	48.83 PK	74.00	-25.17	1.31 V	170	21.03	27.80
4	1641.32	45.76 AV	54.00	-8.24	1.31 V	170	17.96	27.80
5	2202.60	48.29 PK	74.00	-25.71	1.01 V	318	18.41	29.88
5	2202.60	41.04 AV	54.00	-12.96	1.01 V	318	11.16	29.88
6	*2462.00	109.07 PK			1.10 V	271	77.99	31.08
6	*2462.00	102.60 AV			1.10 V	271	71.52	31.08
7	2483.50	54.81 PK	74.00	-19.19	1.10 V	271	23.64	31.17
7	2483.50	48.34 AV	54.00	-5.66	1.10 V	271	17.17	31.17
8	3283.00	56.43 PK	89.07	-32.64	1.14 V	293	23.59	32.84
8	3283.00	54.23 AV	82.60	-28.37	1.14 V	293	21.39	32.84
9	4924.00	53.85 PK	74.00	-20.15	1.14 V	15	17.05	36.80
9	4924.00	49.68 AV	54.00	-4.32	1.14 V	15	12.88	36.80

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

EUT	Wireless Broadband Router	**MODEL**	WR850Gv3
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, 60% RH, 991 hPa	**ANTENNA**	2
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	1100.00	50.55 PK	74.00	-23.45	1.00 H	111	23.85	26.70
2	1608.00	49.33 PK	74.00	-24.67	1.00 H	222	20.66	28.67
3	2390.00	51.02 PK	74.00	-22.98	1.11 H	144	19.22	31.80
3	2390.00	44.54 AV	54.00	-9.46	1.11 H	144	12.74	31.80
4	*2412.00	109.10 PK			1.11 H	144	77.23	31.87
4	*2412.00	102.61 AV			1.11 H	144	70.74	31.87
5	3216.00	50.11 PK	74.00	-23.89	1.00 H	123	15.13	34.98
6	4824.00	52.87 PK	74.00	-21.13	1.02 H	236	14.76	38.11
6	4824.00	49.33 AV	54.00	-4.67	1.02 H	236	11.22	38.11

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 Broadband Router	**MODEL**	WR850Gv3
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, 60% RH, 991 hPa	**ANTENNA**	2
TESTED BY	Leo Hung		

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	1100.00	53.21 PK	74.00	-20.79	1.12 V	128	26.51	26.70
1	1100.00	49.66 AV	54.00	-4.34	1.12 V	128	22.97	26.70
2	1608.00	49.65 PK	74.00	-24.35	1.15 V	285	20.98	28.67
3	2390.00	55.23 PK	74.00	-18.77	1.23 V	222	23.43	31.80
3	2390.00	48.75 AV	54.00	-5.25	1.23 V	222	16.95	31.80
4	*2412.00	113.30 PK			1.23 V	222	81.43	31.87
4	*2412.00	106.82 AV			1.23 V	222	74.95	31.87
5	3216.00	55.65 PK	74.00	-18.35	1.44 V	243	20.67	34.98
5	3216.00	51.55 AV	54.00	-2.45	1.44 V	243	16.57	34.98
6	4824.00	54.66 PK	74.00	-19.34	1.25 V	214	16.55	38.11
6	4824.00	48.66 AV	54.00	-5.34	1.25 V	214	10.55	38.11

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 Broadband Router	**MODEL**	WR850Gv3
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, 60% RH, 991 hPa	**ANTENNA**	2
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	1100.00	43.58 PK	74.00	-30.42	1.00 H	119	16.88	26.70
2	1624.00	48.66 PK	74.00	-25.34	1.00 H	328	19.90	28.76
3	*2437.00	109.83 PK			1.27 H	333	77.88	31.95
3	*2437.00	103.62 AV			1.27 H	333	71.67	31.95
4	3249.00	52.35 PK	74.00	-21.65	1.44 H	285	17.35	35.00
4	3249.00	49.99 AV	54.00	-4.01	1.44 H	285	14.99	35.00
5	4824.00	50.88 PK	74.00	-23.12	1.06 H	66	12.77	38.11

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 Broadband Router	**MODEL**	WR850Gv3
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, 60% RH, 991 hPa	**ANTENNA**	2
TESTED BY	Leo Hung		

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	1100.00	53.80 PK	74.00	-20.20	1.04 V	111	27.10	26.70
1	1100.00	45.98 AV	54.00	-8.02	1.04 V	111	19.28	26.70
2	1624.00	47.98 PK	74.00	-26.02	1.12 V	223	19.22	28.76
3	*2437.00	114.20 PK			1.00 V	242	82.25	31.95
3	*2437.00	107.20 AV			1.00 V	242	75.25	31.95
4	3249.00	58.57 PK	74.00	-15.43	1.02 V	225	23.57	35.00
4	3249.00	53.44 AV	54.00	-0.56	1.02 V	225	18.44	35.00
5	4824.00	53.66 PK	74.00	-20.34	1.12 V	321	15.55	38.11
5	4824.00	48.67 AV	54.00	-5.33	1.12 V	321	10.56	38.11

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 Broadband Router	**MODEL**	WR850Gv3
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, 60% RH, 991 hPa	**ANTENNA**	2
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	1100.00	47.20 PK	74.00	-26.80	1.11 H	258	20.50	26.70
2	1641.00	47.52 PK	74.00	-26.48	1.00 H	222	18.67	28.85
3	*2462.00	108.22 PK			1.22 H	355	76.20	32.02
3	*2462.00	102.28 AV			1.22 H	355	70.26	32.02
4	2483.50	49.16 PK	74.00	-24.84	1.22 H	355	17.07	32.09
5	3282.00	50.12 PK	74.00	-23.88	1.27 H	322	15.10	35.02
6	4924.00	50.25 PK	74.00	-23.75	1.05 H	165	11.76	38.49

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 Broadband Router	**MODEL**	WR850Gv3
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, 60% RH, 991 hPa	**ANTENNA**	2
TESTED BY	Leo Hung		

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	1100.00	48.25 PK	74.00	-25.75	1.04 V	158	21.55	26.70
2	1641.00	52.36 PK	74.00	-21.64	1.00 V	322	23.51	28.85
2	1641.00	46.98 AV	54.00	-7.02	1.00 V	322	18.13	28.85
3	*2462.00	109.05 PK			1.00 V	111	77.03	32.02
3	*2462.00	102.57 AV			1.00 V	111	70.55	32.02
4	2483.50	56.47 PK	74.00	-17.53	1.02 V	111	24.38	32.09
4	2483.50	49.99 AV	54.00	-4.01	1.02 V	111	17.90	32.09
5	3282.00	55.87 PK	74.00	-18.13	1.05 V	226	20.85	35.02
5	3282.00	53.22 AV	54.00	-0.78	1.05 V	226	18.20	35.02
6	4924.00	53.85 PK	74.00	-20.15	1.07 V	125	15.36	38.49
6	4924.00	49.22 AV	54.00	-4.78	1.07 V	125	10.73	38.49

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 Broadband Router	**MODEL**	WR850Gv3
CHANNEL	1	**FREQUENCY RANGE**	1 ~ 25GHz
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	26 deg. C, 62% RH, 991 hPa	**ANTENNA**	1
TESTED BY	Match Tsui		

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	1100.00	42.36 PK	74.00	-31.64	1.55 H	360	15.45	26.91
1	1100.00	32.34 AV	54.00	-21.66	1.55 H	360	5.43	26.91
2	1200.00	43.95 PK	74.00	-30.05	1.33 H	15	16.62	27.33
2	1200.00	36.32 AV	54.00	-17.68	1.33 H	15	8.99	27.33
3	1300.00	43.32 PK	74.00	-30.68	1.28 H	223	15.46	27.86
3	1300.00	37.32 AV	54.00	-16.68	1.28 H	223	9.46	27.86
4	1608.00	46.32 PK	74.00	-27.68	1.00 H	238	18.58	27.75
4	1608.00	42.79 AV	54.00	-11.21	1.00 H	238	15.05	27.75
5	2202.52	45.32 PK	74.00	-28.68	1.36 H	308	15.44	29.88
5	2202.52	42.68 AV	54.00	-11.32	1.36 H	308	12.80	29.88
6	2390.00	50.02 PK	74.00	-23.98	1.33 H	322	19.23	30.79
6	2390.00	43.80 AV	54.00	-10.20	1.33 H	322	13.01	30.79
7	*2412.00	106.32 PK			1.33 H	322	75.44	30.88
7	*2412.00	100.01 AV			1.33 H	322	69.13	30.88
8	3216.00	53.62 PK	74.00	-20.38	1.00 H	22	20.76	32.86
8	3216.00	50.32 AV	54.00	-3.68	1.00 H	22	17.46	32.86
9	4824.00	51.32 PK	74.00	-22.68	1.13 H	325	14.87	36.45
9	4824.00	46.25 AV	54.00	-7.75	1.13 H	325	9.80	36.45

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 Broadband Router	**MODEL**	WR850Gv3
CHANNEL	1	**FREQUENCY RANGE**	1 ~ 25GHz
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	26 deg. C, 62% RH, 991 hPa	**ANTENNA**	1
TESTED BY	Match Tsui		

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	1101.00	54.94 PK	74.00	-19.06	1.13 V	267	28.03	26.91
1	1101.00	48.88 AV	54.00	-5.12	1.13 V	267	21.97	26.91
2	1200.00	48.96 PK	74.00	-25.04	1.33 V	300	21.63	27.33
2	1200.00	42.00 AV	54.00	-12.00	1.33 V	300	14.67	27.33
3	1300.00	45.63 PK	74.00	-28.37	1.21 V	322	17.77	27.86
3	1300.00	40.36 AV	54.00	-13.64	1.21 V	322	12.50	27.86
4	1608.06	48.96 PK	74.00	-25.04	1.08 V	314	21.22	27.75
4	1608.06	43.59 AV	54.00	-10.41	1.08 V	314	15.85	27.75
5	2202.68	48.96 PK	74.00	-25.04	1.00 V	318	19.08	29.88
5	2202.68	42.00 AV	54.00	-12.00	1.00 V	318	12.12	29.88
6	2390.00	53.81 PK	74.00	-20.19	1.07 V	11	23.02	30.79
6	2390.00	46.79 AV	54.00	-7.21	1.07 V	11	16.00	30.79
7	*2412.00	110.11 PK			1.07 V	11	79.23	30.88
7	*2412.00	103.09 AV			1.07 V	11	72.21	30.88
8	3216.00	62.39 PK	90.11	-27.72	1.00 V	25	29.53	32.86
8	3216.00	61.16 AV	83.09	-21.93	1.00 V	25	28.30	32.86
9	4824.00	53.10 PK	74.00	-20.90	1.14 V	33	16.65	36.45
9	4824.00	50.11 AV	54.00	-3.89	1.14 V	33	13.66	36.45

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 Broadband Router	**MODEL**	WR850Gv3
CHANNEL	6	**FREQUENCY RANGE**	1 ~ 25GHz
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	26 deg. C, 62% RH, 991 hPa	**ANTENNA**	1
TESTED BY	Match Tsui		

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	1000.00	42.17 PK	74.00	-31.83	1.53 H	20	15.73	26.44
1	1000.00	32.32 AV	54.00	-21.68	1.53 H	20	5.88	26.44
2	1100.01	42.56 PK	74.00	-31.44	1.50 H	254	15.65	26.91
2	1100.01	35.23 AV	54.00	-18.77	1.50 H	254	8.32	26.91
3	1200.00	43.98 PK	74.00	-30.02	1.32 H	9	16.65	27.33
3	1200.00	35.77 AV	54.00	-18.32	1.32 H	9	8.44	27.33
4	1300.00	42.71 PK	74.00	-31.29	1.28 H	219	14.85	27.86
4	1300.00	36.12 AV	54.00	-17.88	1.28 H	219	8.26	27.86
5	1624.66	46.63 PK	74.00	-27.37	1.00 H	244	18.86	27.77
5	1624.66	42.21 AV	54.00	-11.79	1.00 H	244	14.44	27.77
6	2202.52	44.71 PK	74.00	-29.29	1.36 H	308	14.83	29.88
6	2202.52	36.96 AV	54.00	-17.04	1.36 H	308	7.08	29.88
7	*2437.00	106.35 PK			1.33 H	222	75.37	30.98
7	*2437.00	100.00 AV			1.33 H	222	69.02	30.98
8	3249.29	53.06 PK	74.00	-20.94	1.00 H	92	20.21	32.85
8	3249.29	50.22 AV	54.00	-3.78	1.00 H	92	17.37	32.85
9	4874.00	51.36 PK	74.00	-22.64	1.33 H	321	14.75	36.61
9	4874.00	46.32 AV	54.00	-7.68	1.33 H	321	9.71	36.61

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 Broadband Router	**MODEL**	WR850Gv3
CHANNEL	6	**FREQUENCY RANGE**	1 ~ 25GHz
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	26 deg. C, 62% RH, 991 hPa	**ANTENNA**	1
TESTED BY	Match Tsui		

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	1001.18	47.20 PK	74.00	-26.80	1.00 V	304	20.75	26.45
1	1001.18	39.46 AV	54.00	-14.54	1.00 V	304	13.01	26.45
2	1101.24	53.60 PK	74.00	-20.40	1.35 V	298	26.68	26.91
2	1101.24	45.57 AV	54.00	-8.43	1.35 V	298	18.65	26.91
3	1201.36	49.79 PK	74.00	-24.21	1.30 V	289	22.45	27.34
3	1201.36	42.23 AV	54.00	-11.77	1.30 V	289	14.86	27.34
4	1300.00	46.88 PK	74.00	-27.12	1.37 V	314	19.02	27.86
4	1300.00	40.61 AV	54.00	-13.39	1.37 V	314	12.75	27.86
5	1500.00	46.13 PK	74.00	-27.87	1.12 V	311	18.12	28.01
5	1500.00	39.74 AV	54.00	-14.26	1.12 V	311	11.73	28.01
6	1624.92	48.30 PK	74.00	-25.70	1.07 V	312	20.53	27.77
6	1624.92	43.59 AV	54.00	-10.41	1.07 V	312	15.82	27.77
7	2202.52	48.40 PK	74.00	-25.60	1.00 V	318	18.52	29.88
7	2202.52	41.40 AV	54.00	-12.60	1.00 V	318	11.52	29.88
8	*2437.00	109.68 PK			1.12 V	22	78.70	30.98
8	*2437.00	103.21 AV			1.12 V	22	72.23	30.98
9	3249.36	60.45 PK	89.68	-29.23	1.00 V	237	27.60	32.85
9	3249.36	58.41 AV	83.21	-24.80	1.00 V	237	25.56	32.85
10	4874.00	52.21 PK	74.00	-21.79	1.14 V	227	15.60	36.61
10	4874.00	49.68 AV	54.00	-4.32	1.14 V	227	13.07	36.61

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 Broadband Router	**MODEL**	WR850Gv3
CHANNEL	11	**FREQUENCY RANGE**	1 ~ 25GHz
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	26 deg. C, 62% RH, 991 hPa	**ANTENNA**	1
TESTED BY	Match Tsui		

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	1100.00	43.88 PK	74.00	-30.12	1.23 H	77	16.97	26.91
1	1100.00	36.96 AV	54.00	-17.04	1.23 H	77	10.05	26.91
2	1200.00	44.05 PK	74.00	-29.95	1.11 H	9	16.72	27.33
2	1200.00	35.92 AV	54.00	-18.08	1.11 H	9	8.59	27.33
3	1300.00	43.63 PK	74.00	-30.37	1.23 H	220	15.77	27.86
3	1300.00	38.20 AV	54.00	-15.80	1.23 H	220	10.34	27.86
4	1641.28	46.34 PK	74.00	-27.66	1.24 H	241	18.54	27.80
4	1641.28	42.12 AV	54.00	-11.88	1.24 H	241	14.32	27.80
5	2202.52	44.21 PK	74.00	-29.79	1.04 H	300	14.33	29.88
5	2202.52	35.96 AV	54.00	-18.04	1.04 H	300	6.08	29.88
6	*2462.00	105.01 PK			1.33 H	20	73.93	31.08
6	*2462.00	98.65 AV			1.33 H	20	67.57	31.08
7	2483.50	48.71 PK	74.00	-25.29	1.33 H	20	17.54	31.17
7	2483.50	42.35 AV	54.00	-11.65	1.33 H	20	11.18	31.17
8	3284.00	51.88 PK	74.00	-22.12	1.11 H	32	19.04	32.84
8	3284.00	47.62 AV	54.00	-6.38	1.11 H	32	14.78	32.84
9	4924.00	50.20 PK	74.00	-23.80	1.30 H	324	13.40	36.80
9	4924.00	45.32 AV	54.00	-8.68	1.30 H	324	8.52	36.80

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

EUT	Wireless Broadband Router	**MODEL**	WR850Gv3
CHANNEL	11	**FREQUENCY RANGE**	1 ~ 25GHz
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	26 deg. C, 62% RH, 991 hPa	**ANTENNA**	1
TESTED BY	Match Tsui		

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	1101.00	55.29 PK	74.00	-18.71	1.00 V	268	28.38	26.91
1	1101.00	48.70 AV	54.00	-5.30	1.00 V	268	21.79	26.91
2	1201.00	54.38 PK	74.00	-19.62	1.13 V	268	27.04	27.34
2	1201.00	47.86 AV	54.00	-6.14	1.13 V	268	20.52	27.34
3	1300.00	47.63 PK	74.00	-26.37	1.40 V	311	19.77	27.86
3	1300.00	40.96 AV	54.00	-13.04	1.40 V	311	13.10	27.86
4	1641.28	49.92 PK	74.00	-24.08	1.00 V	33	22.12	27.80
4	1641.28	47.50 AV	54.00	-6.50	1.00 V	33	19.70	27.80
5	2202.00	49.63 PK	74.00	-24.37	1.01 V	308	19.75	29.88
5	2202.00	42.35 AV	54.00	-11.65	1.01 V	308	12.47	29.88
6	*2462.00	109.61 PK			1.05 V	306	78.53	31.08
6	*2462.00	103.38 AV			1.05 V	306	72.30	31.08
7	2483.50	58.59 PK	74.00	-15.41	1.05 V	306	27.42	31.17
7	2483.50	52.36 AV	54.00	-1.64	1.05 V	306	21.19	31.17
8	3284.00	55.57 PK	74.00	-18.43	1.38 V	110	22.73	32.84
8	**3284.00**	**53.82 AV**	**54.00**	**-0.18**	**1.38 V**	**110**	**20.98**	**32.84**
9	4924.00	51.30 PK	74.00	-22.70	1.41 V	230	14.50	36.80
9	4924.00	47.63 AV	54.00	-6.37	1.41 V	230	10.83	36.80

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

EUT	Wireless Broadband Router	**MODEL**	WR850Gv3
CHANNEL	1	**FREQUENCY RANGE**	1 ~ 25GHz
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25 deg. C, 60% RH, 991 hPa	**ANTENNA**	2
TESTED BY	Match Tsui		

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	1100.00	49.09 PK	74.00	-24.91	1.40 H	263	22.39	26.70
2	1608.00	51.44 PK	74.00	-22.56	1.10 H	300	22.77	28.67
2	1608.00	48.90 AV	54.00	-5.10	1.10 H	300	20.23	28.67
3	2390.00	52.65 PK	74.00	-21.35	1.15 H	14	20.85	31.80
3	2390.00	46.54 AV	54.00	-7.46	1.15 H	14	14.74	31.80
4	*2412.00	108.51 PK			1.15 H	14	76.64	31.87
4	*2412.00	102.43 AV			1.15 H	14	70.56	31.87
5	3216.00	55.24 PK	74.00	-18.76	1.00 H	36	20.26	34.98
5	3216.00	52.60 AV	54.00	-1.40	1.00 H	36	17.62	34.98
6	4824.00	55.20 PK	74.00	-18.80	1.00 H	10	17.09	38.11
6	4824.00	52.86 AV	54.00	-1.14	1.00 H	10	14.75	38.11

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 Broadband Router	**MODEL**	WR850Gv3
CHANNEL	1	**FREQUENCY RANGE**	1 ~ 25GHz
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25 deg. C, 60% RH, 991 hPa	**ANTENNA**	2
TESTED BY	Match Tsui		

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	1100.00	48.70 PK	74.00	-25.30	1.20 V	147	22.00	26.70
2	1608.00	51.66 PK	74.00	-22.34	1.19 V	43	22.99	28.67
2	1608.00	49.17 AV	54.00	-4.83	1.19 V	43	20.50	28.67
3	2390.00	57.30 PK	74.00	-16.70	1.02 V	306	25.50	31.80
3	2390.00	49.40 AV	54.00	-4.60	1.02 V	306	17.60	31.80
4	*2412.00	112.50 PK			1.02 V	306	80.63	31.87
4	*2412.00	105.30 AV			1.02 V	306	73.43	31.87
5	3216.00	62.79 PK	74.00	-11.21	1.20 V	277	27.81	34.98
5	3216.00	61.49 AV	54.00	7.49	1.20 V	277	26.51	34.98
6	4824.00	56.80 PK	74.00	-17.20	1.02 V	354	18.69	38.11
6	4824.00	52.89 AV	54.00	-1.11	1.02 V	354	14.78	38.11

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 Broadband Router	**MODEL**	WR850Gv3
CHANNEL	6	**FREQUENCY RANGE**	1 ~ 25GHz
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25 deg. C, 60% RH, 991 hPa	**ANTENNA**	2
TESTED BY	Match Tsui		

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	1100.00	46.81 PK	74.00	-27.19	1.30 H	279	20.11	26.70
2	1624.00	51.20 PK	74.00	-22.80	1.30 H	280	22.44	28.76
2	1624.00	47.80 AV	54.00	-6.20	1.30 H	280	19.04	28.76
3	*2437.00	109.10 PK			1.10 H	29	77.15	31.95
3	*2437.00	103.10 AV			1.10 H	29	71.15	31.95
4	3249.00	53.03 PK	74.00	-20.97	1.16 H	19	18.03	35.00
4	3249.00	48.30 AV	54.00	-5.70	1.16 H	19	13.30	35.00
5	4874.00	53.83 PK	74.00	-20.17	1.18 H	257	15.55	38.28
5	4874.00	49.73 AV	54.00	-4.27	1.18 H	257	11.45	38.28

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 Broadband Router	**MODEL**	WR850Gv3
CHANNEL	6	**FREQUENCY RANGE**	1 ~ 25GHz
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25 deg. C, 60% RH, 991 hPa	**ANTENNA**	2
TESTED BY	Match Tsui		

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	1100.00	54.40 PK	74.00	-19.60	1.35 V	241	27.70	26.70
1	1100.00	46.52 AV	54.00	-7.48	1.35 V	241	19.82	26.70
2	1624.00	49.50 PK	74.00	-24.50	1.00 V	300	20.74	28.76
3	*2437.00	111.73 PK			1.10 V	281	79.78	31.95
3	*2437.00	104.91 AV			1.10 V	281	72.96	31.95
4	3249.00	61.28 PK	74.00	-12.72	1.00 V	150	26.28	35.00
4	3249.00	59.52 AV	54.00	5.52	1.00 V	150	24.52	35.00
5	4874.00	54.26 PK	74.00	-19.74	1.14 V	220	15.98	38.28
5	4874.00	52.11 AV	54.00	-1.89	1.14 V	220	13.83	38.28

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 Broadband Router	**MODEL**	WR850Gv3
CHANNEL	11	**FREQUENCY RANGE**	1 ~ 25GHz
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25 deg. C, 60% RH, 991 hPa	**ANTENNA**	2
TESTED BY	Match Tsui		

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	1100.00	43.22 PK	74.00	-30.78	1.03 H	118	16.52	26.70
2	1641.00	48.22 PK	74.00	-25.78	1.00 H	111	19.37	28.85
3	*2462.00	108.50 PK			1.02 H	225	76.48	32.02
3	*2462.00	101.93 AV			1.02 H	225	69.91	32.02
4	2483.50	56.70 PK	74.00	-17.30	1.02 H	225	24.61	32.09
4	2483.50	49.31 AV	54.00	-4.69	1.02 H	225	17.22	32.09
5	3282.00	50.11 PK	74.00	-23.89	1.02 H	228	15.09	35.02
6	4924.00	50.25 PK	74.00	-23.75	1.00 H	310	11.76	38.49

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 Broadband Router	**MODEL**	WR850Gv3
CHANNEL	11	**FREQUENCY RANGE**	1 ~ 25GHz
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25 deg. C, 60% RH, 991 hPa	**ANTENNA**	2
TESTED BY	Match Tsui		

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	1100.00	46.33 PK	74.00	-27.67	1.15 V	277	19.63	26.70
2	1641.00	51.88 PK	74.00	-22.12	1.05 V	252	23.03	28.85
2	1641.00	45.22 AV	54.00	-8.78	1.05 V	252	16.37	28.85
3	*2462.00	112.60 PK			1.10 V	29	80.58	32.02
3	*2462.00	105.70 AV			1.10 V	29	73.68	32.02
4	2483.50	60.20 PK	74.00	-13.80	1.10 V	29	28.11	32.09
4	2483.50	53.00 AV	54.00	-1.00	1.10 V	29	20.91	32.09
5	3282.00	53.10 PK	74.00	-20.90	1.00 V	225	18.08	35.02
5	3282.00	47.88 AV	54.00	-6.12	1.00 V	225	12.86	35.02
6	4924.00	52.87 PK	74.00	-21.13	1.10 V	42	14.38	38.49
6	4924.00	48.99 AV	54.00	-5.01	1.10 V	42	10.50	38.49

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.

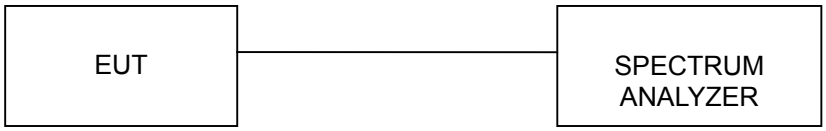
4.3.3 TEST PROCEDURE

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

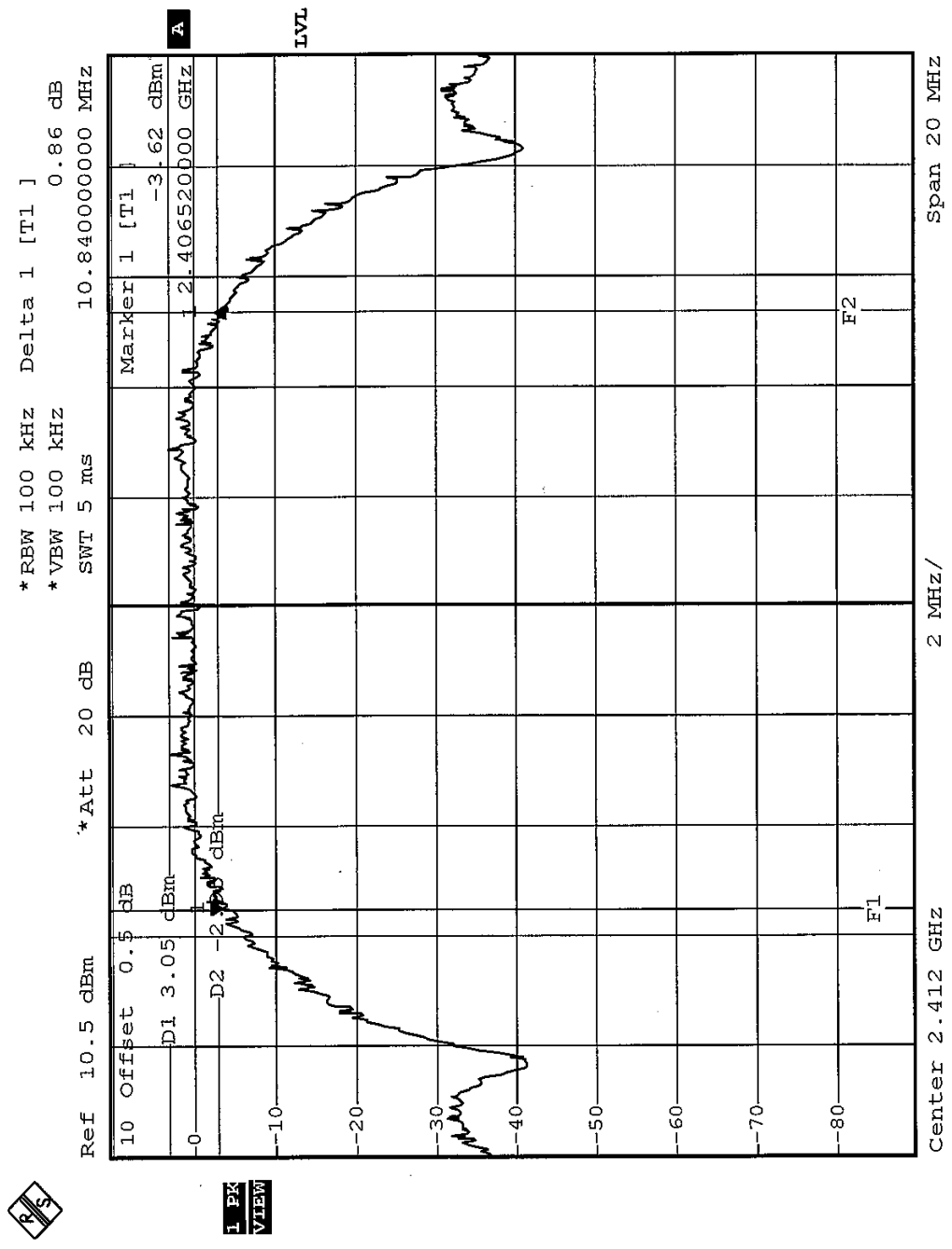
The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

4.3.7 TEST RESULTS (A)

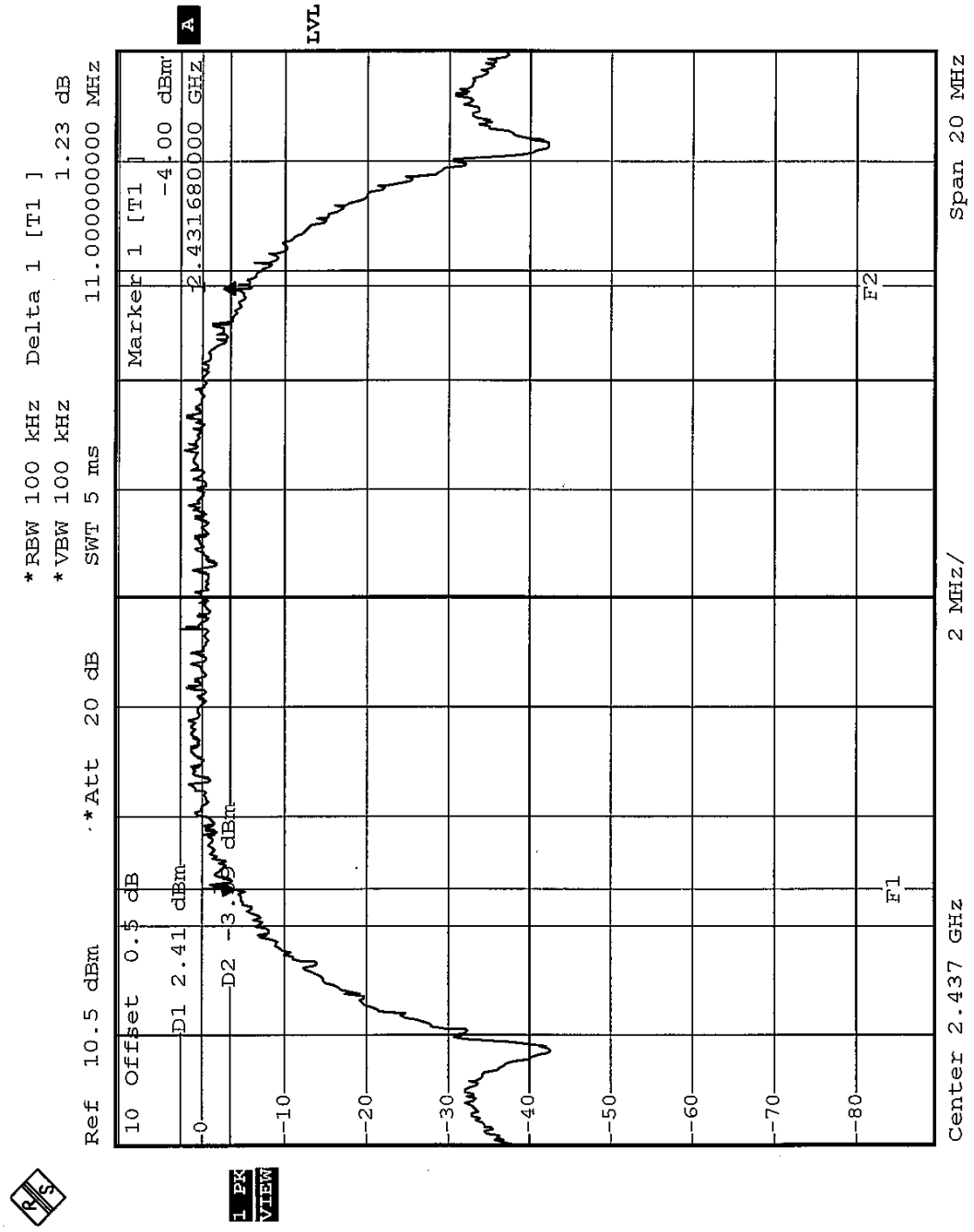
EUT	Wireless Broadband Router	MODEL	WR850Gv3
ENVIRONMENTAL CONDITIONS	24 deg. C, 64% RH, 991 hPa	INPUT POWER (SYSTEM)	120 Vac, 60 Hz
TESTED BY:	Leo Hung		

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS/FAIL
1	2412	10.84	0.5	PASS
6	2437	11.00	0.5	PASS
11	2462	11.08	0.5	PASS

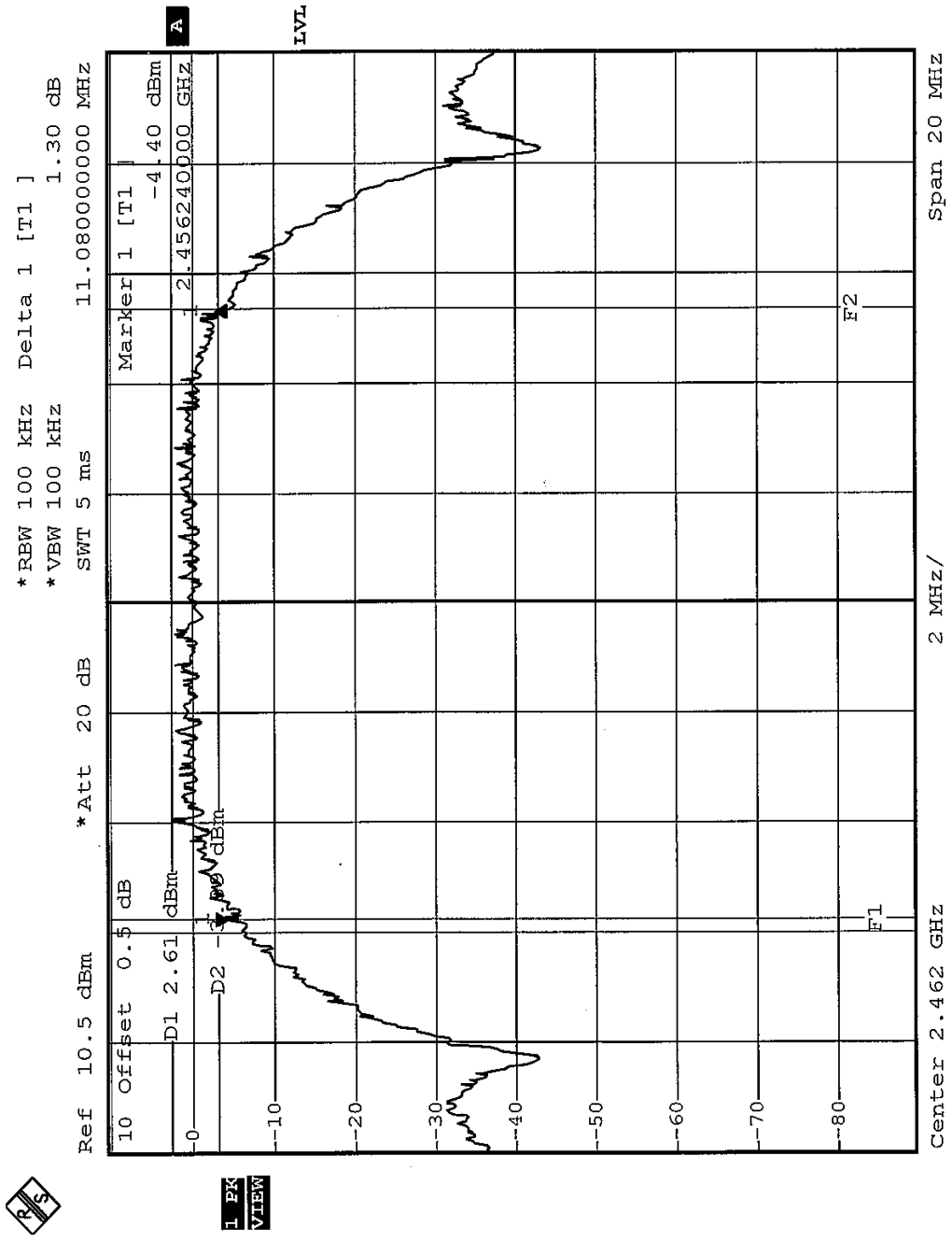
CH1


Ref 10.5 dBm
10 Offset 0.5 dB
D1 3.05 dBm
D2 -2.00 dBm
*Att 20 dB
*RBW 100 kHz
*VBW 100 kHz
SWT 5 ms
Delta 1 [T1]
0.86 dB
10.840000000 MHz
Marker 1 [T1
-3.62 dBm
2.40652000 GHz
LVL
A
F1
F2
Center 2.412 GHz
2 MHz/
Span 20 MHz
1 PK
VIEW

CH6


Ref 10.5 dBm
10 Offset 0.5 dB
D1 2.41 dBm
D2 -3.59 dBm
*Att 20 dB
*RBW 100 kHz
*VBW 100 kHz
SWT 5 ms
Delta 1 [T1]
1.23 dB
11.000000000 MHz
Marker 1 [T1]
-4.00 dBm
2.431680000 GHz
LVL
A
F1
F2
Center 2.437 GHz
2 MHz/
Span 20 MHz
1 PK
VIEW

CH11

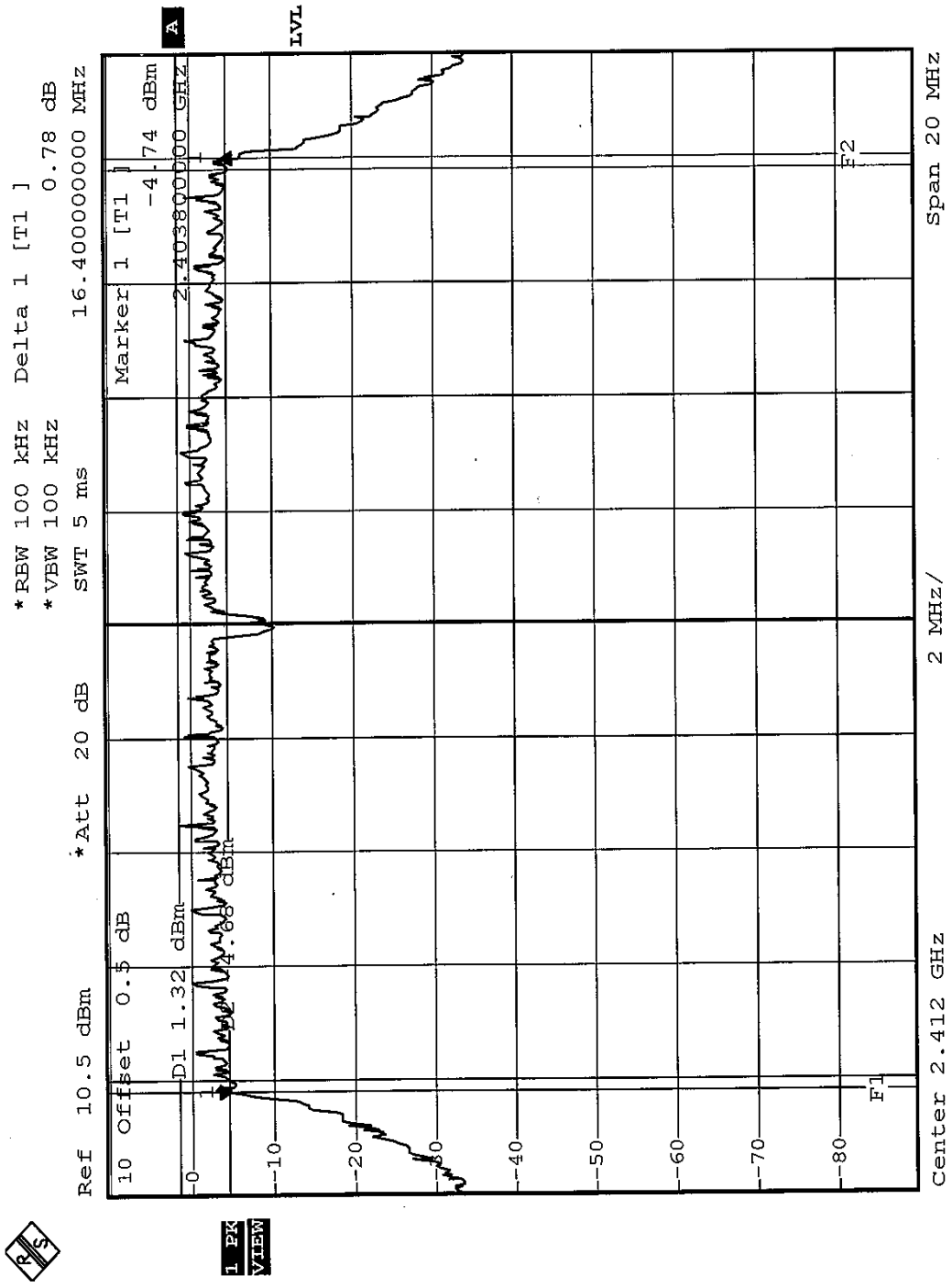

*RBW 100 kHz
*VBW 100 kHz
SWT 5 ms
Delta 1 [T1]
1.30 dB
11.080000000 MHz
*Att 20 dB
Marker 1 [T1]
-4.40 dBm
2.456240000 GHz
Ref 10.5 dBm
10 Offset 0.5 dB
D1 2.61 dBm
D2 -1.39 dBm
LVL
A
F1
F2
1 PK VIEW
Center 2.462 GHz
2 MHz/
Span 20 MHz

4.3.8 TEST RESULTS (B)

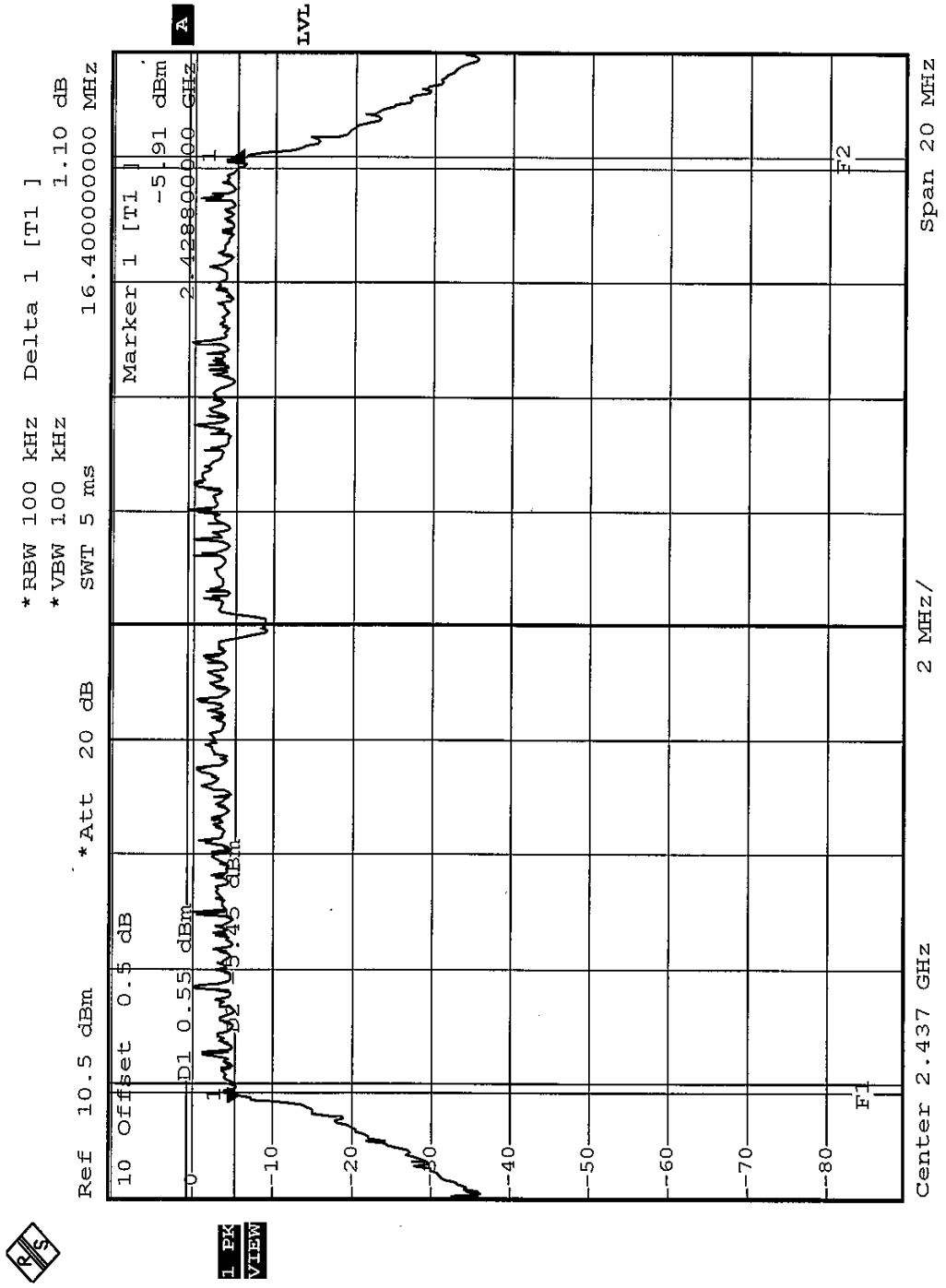
EUT	Wireless Broadband Router	**MODEL**	WR850Gv3
ENVIRONMENTAL CONDITIONS	24 deg. C, 64% RH, 991 hPa	**INPUT POWER (SYSTEM)**	120 Vac, 60 Hz
TESTED BY	Leo Hung		

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

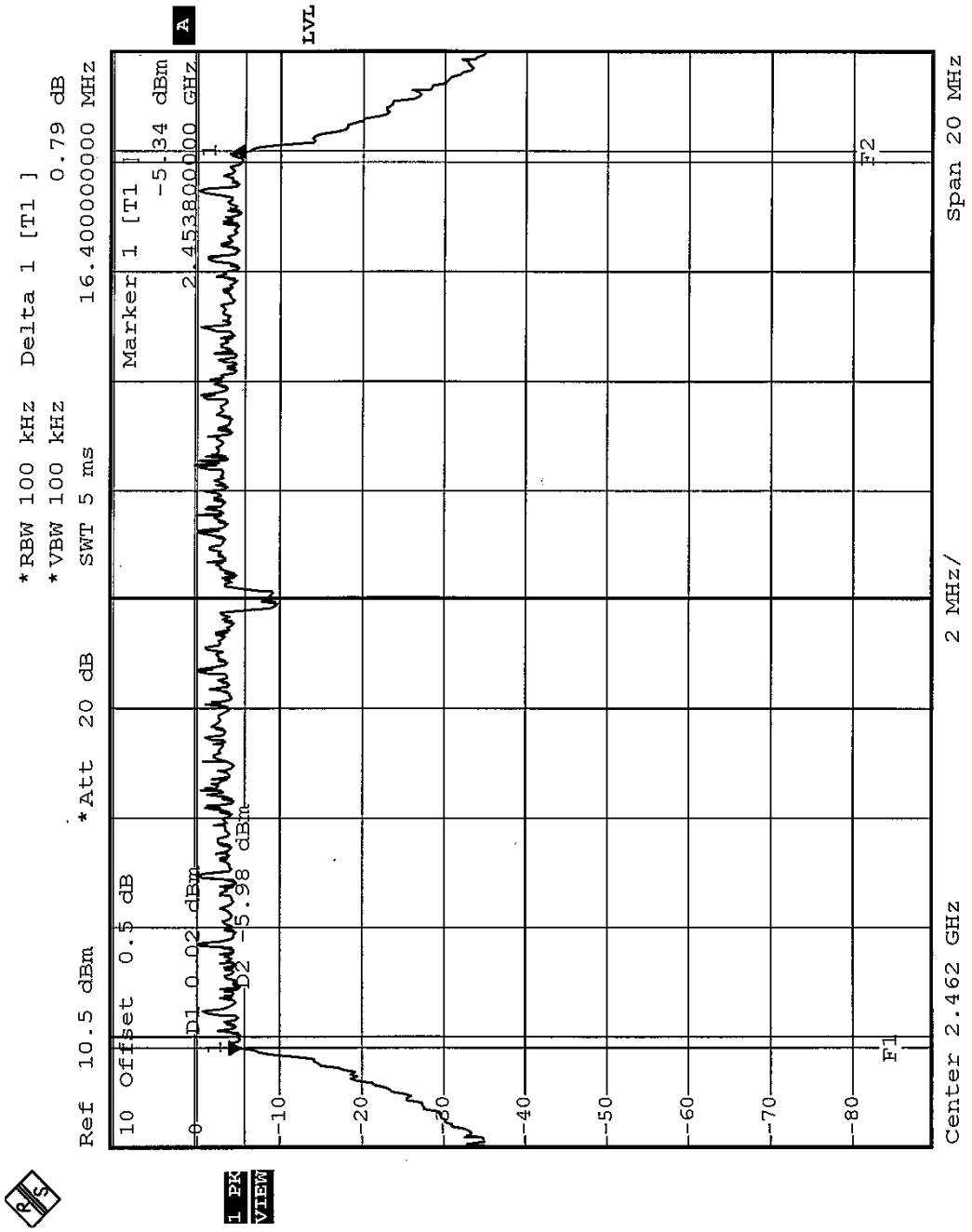
CH1


Ref 10.5 dBm
10 Offset 0.5 dB
D1 1.32 dBm
*Att 20 dB
*RBW 100 kHz
*VBW 100 kHz
SWT 5 ms
Delta 1 [T1]
0.78 dB
16.40000000 MHz
Marker 1 [T1]
-4.74 dBm
2.40380000 GHz
LVL
A
Span 20 MHz
2 MHz/
Center 2.412 GHz
F1
F2
1 PK
VIEW

CH6


RBW 100 kHz
VBW 100 kHz
SWT 5 ms
Delta 1 [T1]
1.10 dB
16.400000000 MHz
Marker 1 [T1]
-5.91 dBm
2.428800000 GHz
Ref 10.5 dBm
Offset 0.5 dB
D1 0.55 dBm
Att 20 dB
Center 2.437 GHz
2 MHz/
Span 20 MHz
1 PK
VIEW

CH11


Ref 10.5 dBm
10 Offset 0.5 dB
D1 0.02 dBm
D2 -5.98 dBm
*Att 20 dB
*RBW 100 kHz
*VBW 100 kHz
SWT 5 ms
Delta 1 [T1]
0.79 dB
16.40000000 MHz
Marker 1 [T1]
-5.34 dBm
2.45380000 GHz
LVL
A
1 PK
VIEW
Center 2.462 GHz
2 MHz/
Span 20 MHz
F1
F2

4.4 MAXIMUM PEAK OUTPUT POWER

4.4.1 LIMITS OF MAXIMUM PEAK OUTPUT POWER MEASUREMENT

The Maximum Peak Output Power Measurement is 30dBm.

4.4.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
R&S SPECTRUM ANALYZER	FSEK30	100049	Aug. 12, 2004
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 Broadband Router	MODEL	WR850Gv3
ENVIRONMENTAL CONDITIONS	24 deg. C, 64%RH, 991 hPa	INPUT POWER (SYSTEM)	120 Vac, 60 Hz
TESTED BY:	Leo Hung		

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (mW)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
1	2412	31.696	15.010	30	PASS
6	2437	31.623	15.000	30	PASS
11	2462	31.842	15.030	30	PASS

4.4.8 TEST RESULTS (B)

EUT	Wireless Broadband Router	MODEL	WR850Gv3
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH, 991hPa	INPUT POWER (SYSTEM)	120 Vac, 60 Hz
TESTED BY:	Leo Hung		

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (mW)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
1	2412	31.842	15.030	30	PASS
6	2437	31.696	15.010	30	PASS
11	2462	31.915	15.040	30	PASS

4.5 POWER SPECTRAL DENSITY MEASUREMENT

4.5.1 LIMITS OF POWER SPECTRAL DENSITY MEASUREMENT

The Maximum of Power Spectral Density Measurement is 8dBm.

4.5.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
SPECTRUM ANALYZER	FSEK30	100049	Aug. 12, 2004

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

4.5.3 TEST PROCEDURE

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

4.5.4 DEVIATION FROM TEST STANDARD

No deviation.

4.5.5 TEST SETUP

4.5.6 EUT OPERATING CONDITIONS

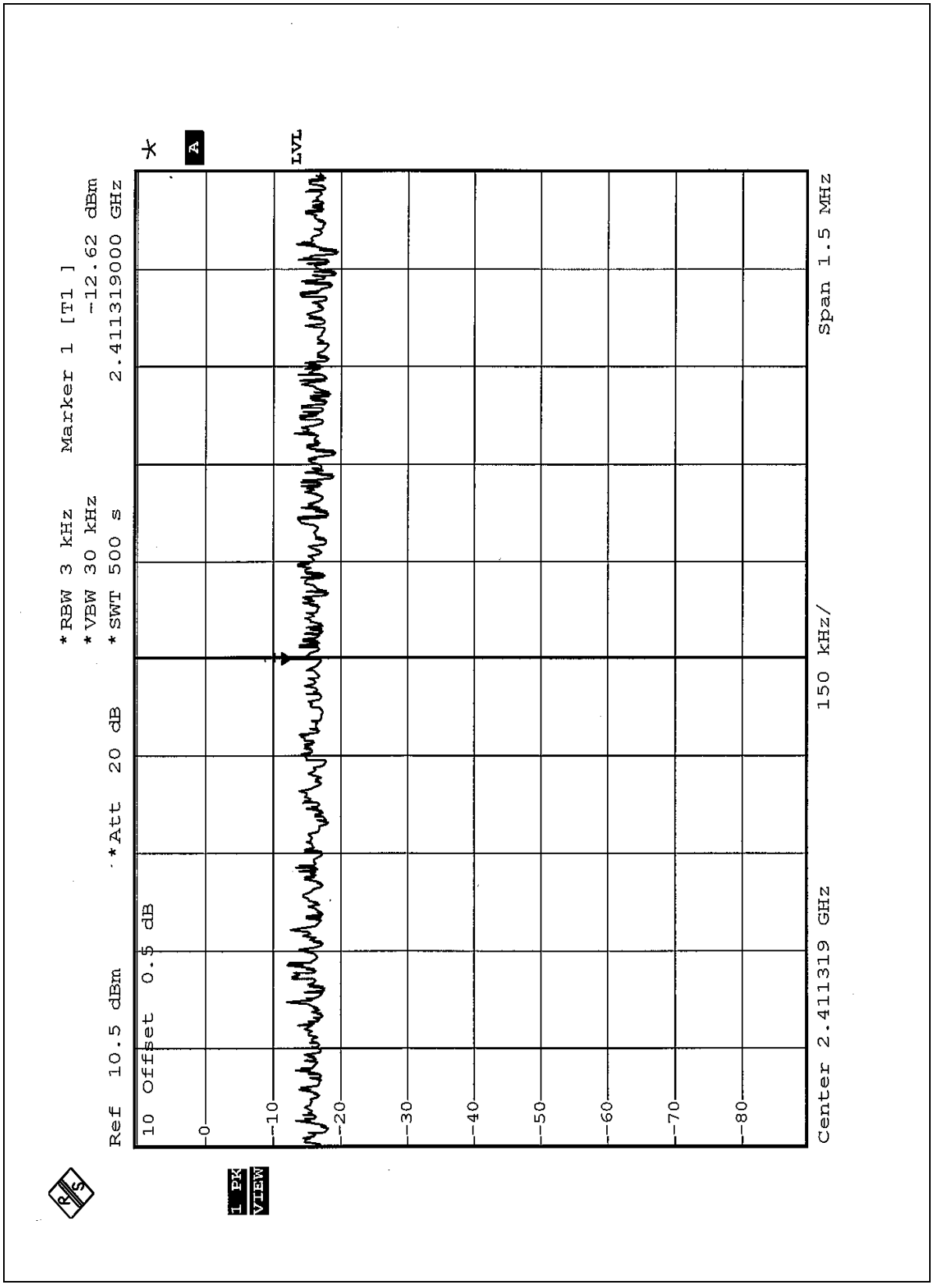
Same as 4.3.6.

4.5.7 TEST RESULTS (A)

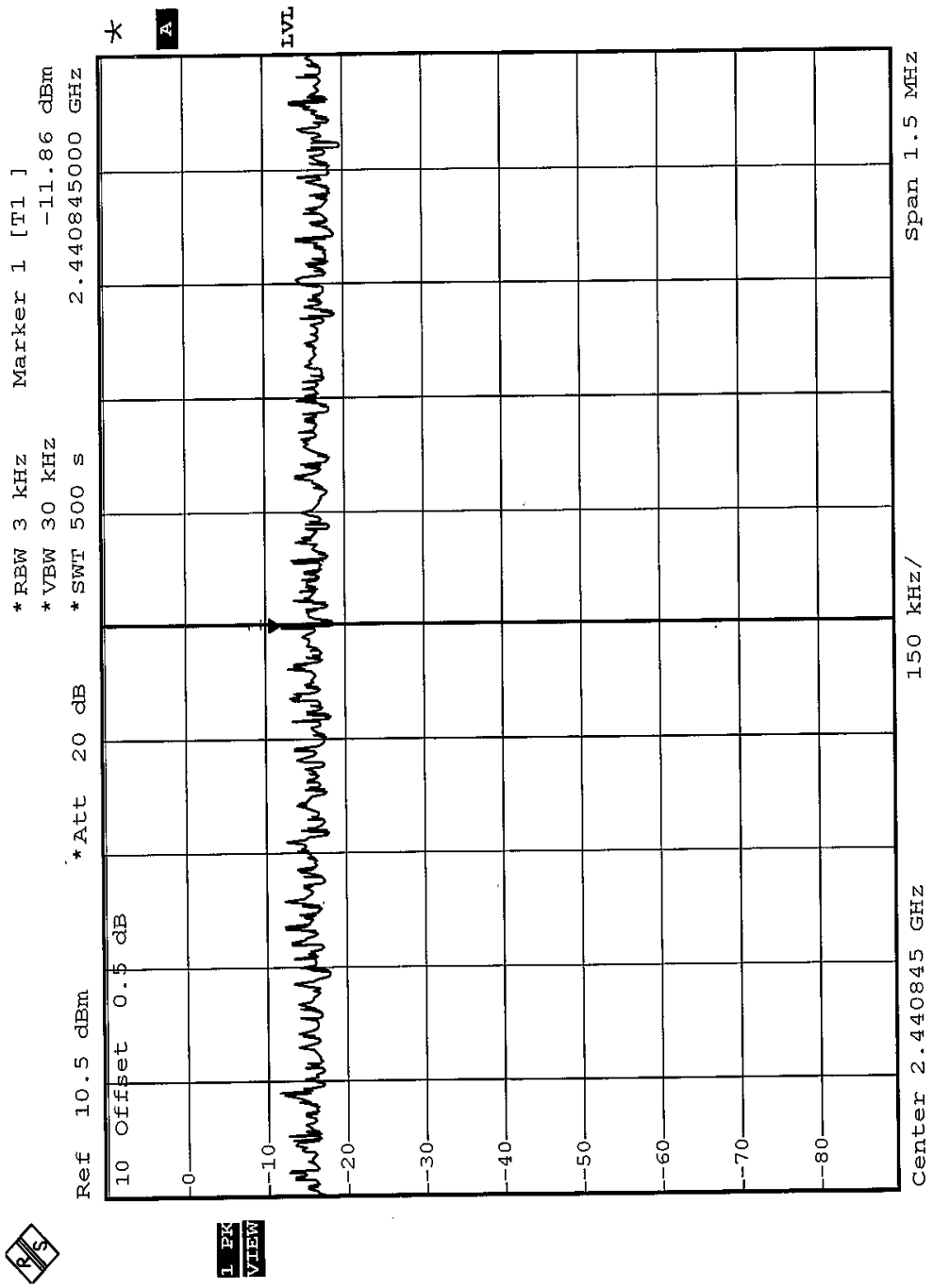
EUT	Wireless Broadband Router	**MODEL**	WR850Gv3
ENVIRONMENTAL CONDITIONS	24 deg. C, 64% RH, 991 hPa	**INPUT POWER (SYSTEM)**	120 Vac, 60 Hz
TESTED BY:	Leo Hung		

CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3 kHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	2412	-12.62	8	PASS
6	2437	-11.86	8	PASS
11	2462	-11.87	8	PASS

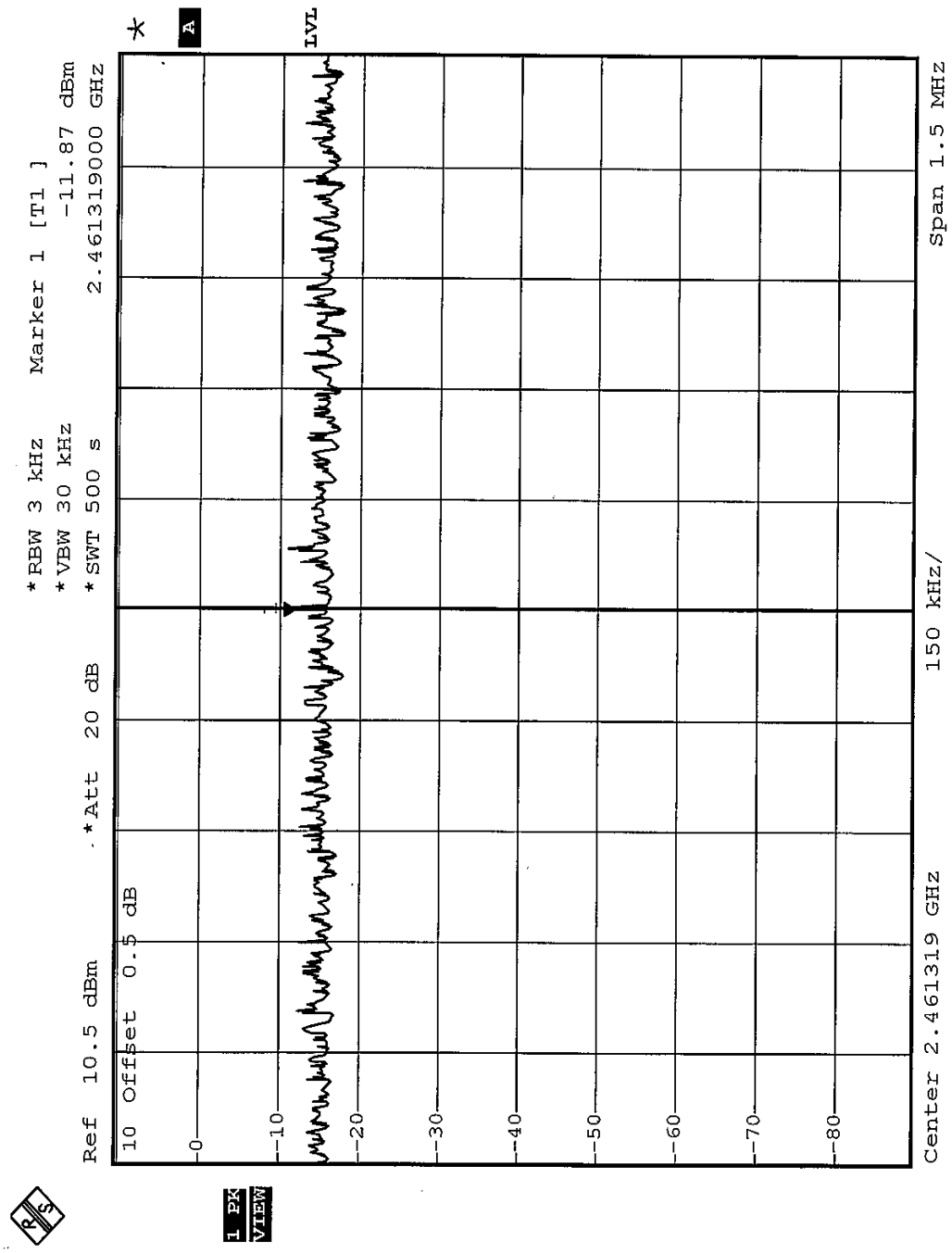
CH1


Ref 10.5 dBm
10 Offset 0.5 dB
*Att 20 dB
*RBW 3 kHz
*VBW 30 kHz
*SWT 500 s
Marker 1 [T1]
-12.62 dBm
2.411319000 GHz
Center 2.411319 GHz
150 kHz/
Span 1.5 MHz
1 PK VIEW
A
LVL
0
-10
-20
-30
-40
-50
-60
-70
-80

CH6


Ref 10.5 dBm
10 Offset 0.5 dB
*Att 20 dB
*RBW 3 kHz
*VBW 30 kHz
*SWT 500 s
Marker 1 [T1]
-11.86 dBm
2.440845000 GHz
A
LVL
1 PK
VIEW
Center 2.440845 GHz
150 kHz/
Span 1.5 MHz
0
-10
-20
-30
-40
-50
-60
-70
-80

CH11

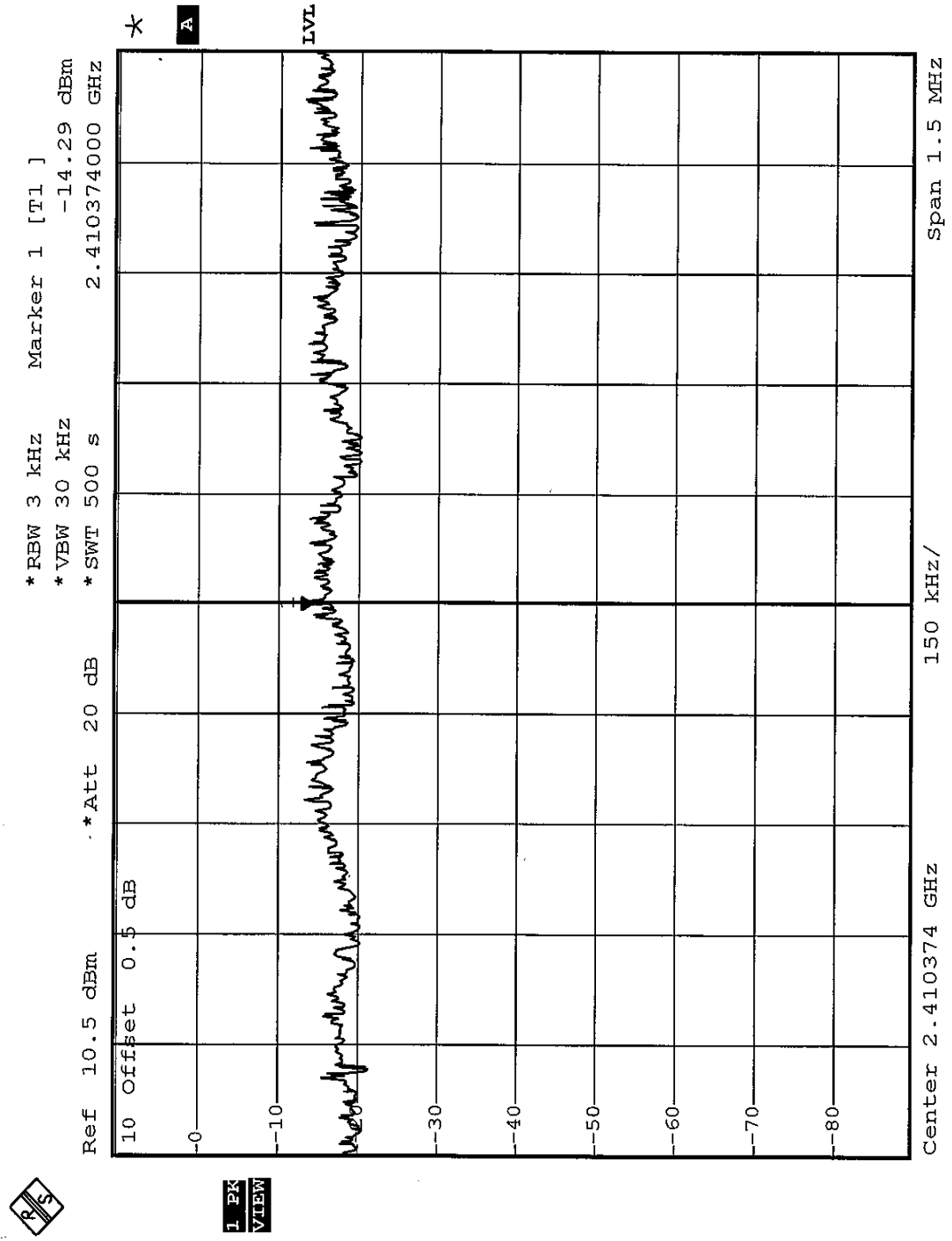

Ref 10.5 dBm
10 Offset 0.5 dB
*Att 20 dB
*RBW 3 kHz
*VBW 30 kHz
*SWT 500 s
Marker 1 [T1]
-11.87 dBm
2.461319000 GHz
Center 2.461319 GHz
150 kHz/
Span 1.5 MHz
1 PK VIEW
A
LVL

4.5.8 TEST RESULTS (B)

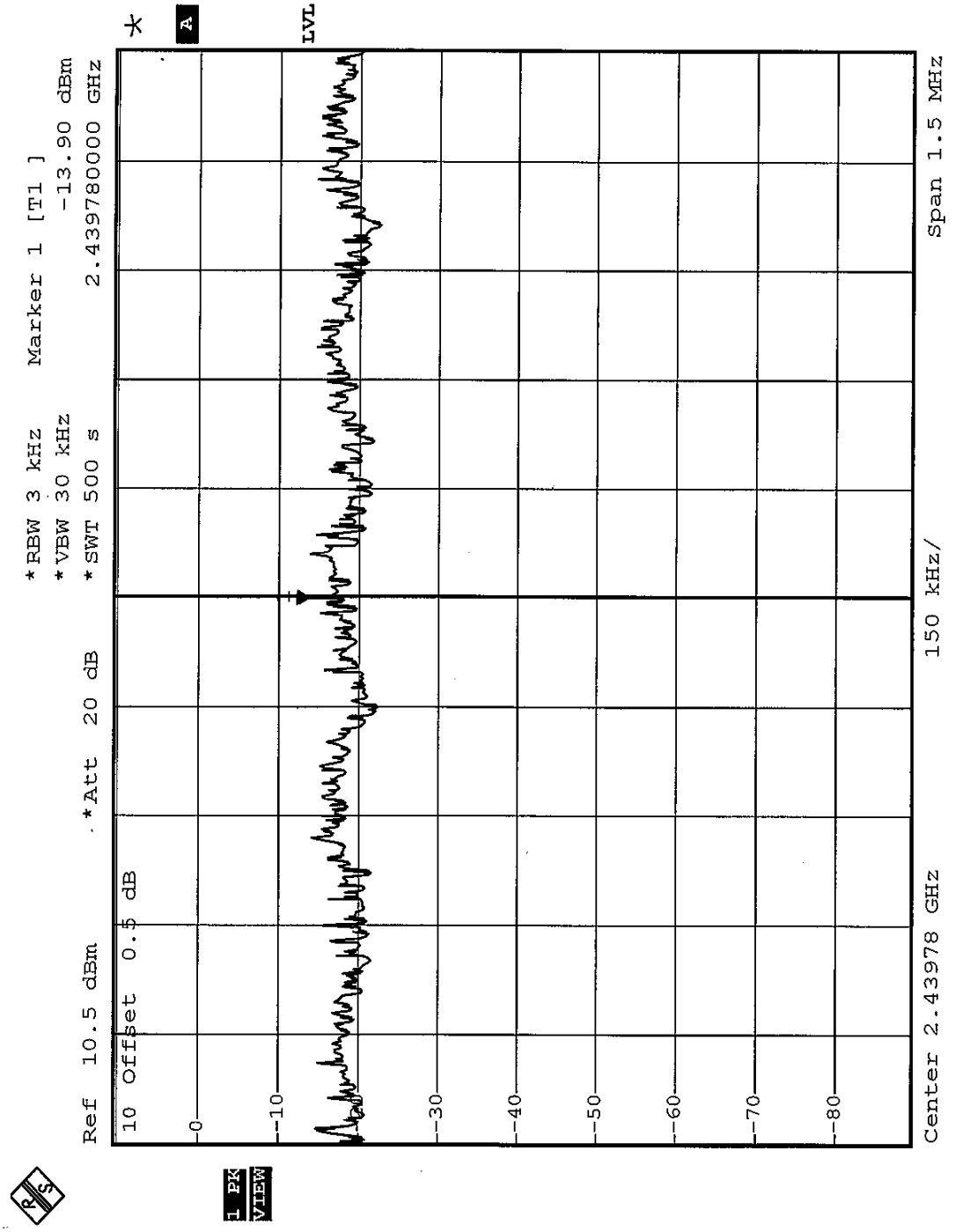
EUT	Wireless Broadband Router	**MODEL**	WR850Gv3
ENVIRONMENTAL CONDITIONS	24 deg. C, 64% RH, 991 hPa	**INPUT POWER (SYSTEM)**	120 Vac, 60 Hz
TESTED BY:	Leo Hung		

CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3 kHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	2412	-14.29	8	PASS
6	2437	-13.90	8	PASS
11	2462	-12.61	8	PASS

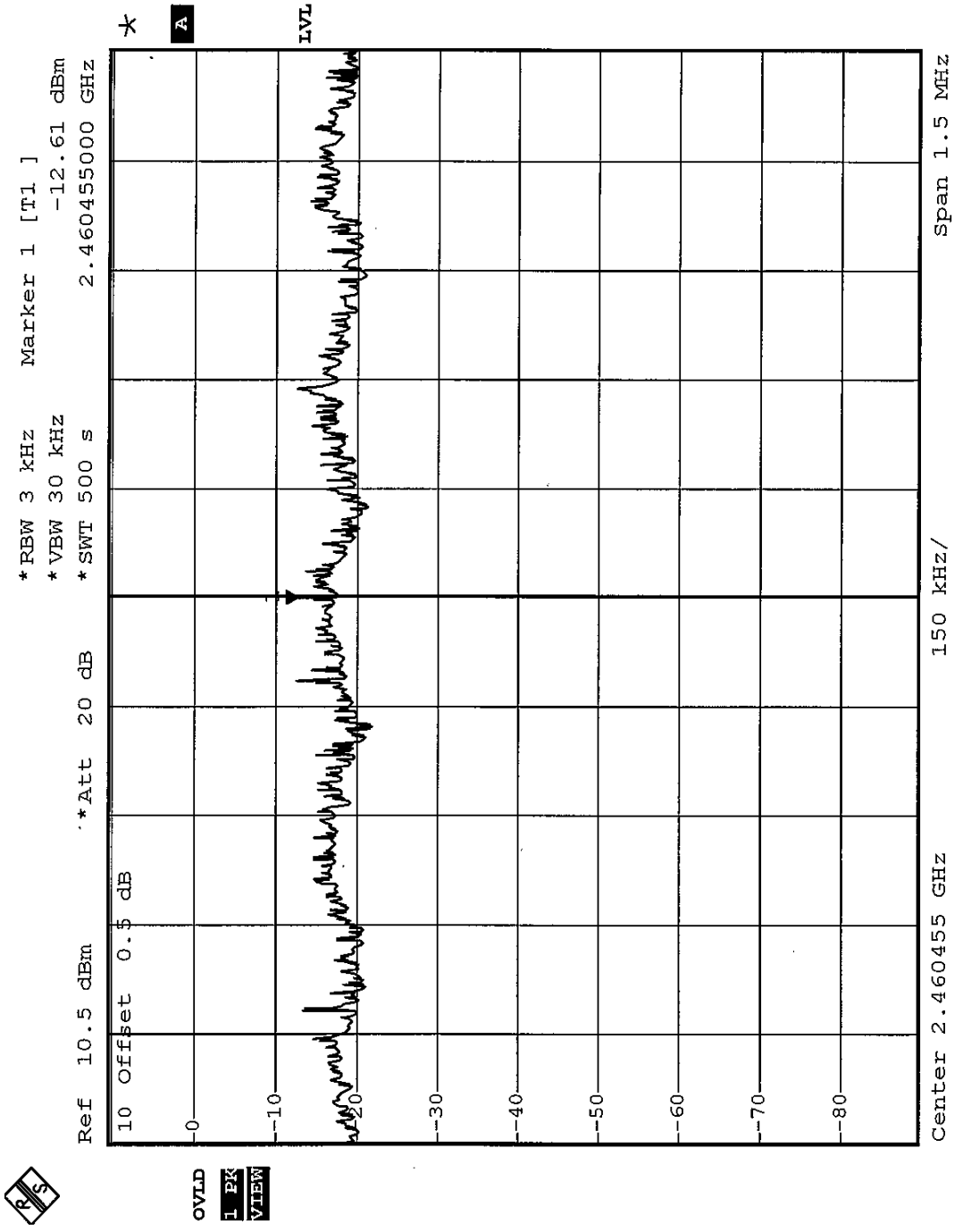
CH1


Ref 10.5 dBm
10 Offset 0.5 dB
*Att 20 dB
*RBW 3 kHz
*VBW 30 kHz
*SWT 500 s
Marker 1 [T1]
-14.29 dBm
2.410374000 GHz
Center 2.410374 GHz
150 kHz/
Span 1.5 MHz
1 PK VIEW
A
LVL
0
-10
-30
-40
-50
-60
-70
-80

CH6


Ref 10.5 dBm
10 Offset 0.5 dB
*Att 20 dB
*RBW 3 kHz
*VBW 30 kHz
*SWT 500 s
Marker 1 [T1]
-13.90 dBm
2.439780000 GHz
Center 2.43978 GHz
150 kHz/
Span 1.5 MHz
1 PK VIEW
A
LVL

CH11


RBW 3 kHz
VBW 30 kHz
SWT 500 s
Marker 1 [T1]
-12.61 dBm
2.460455000 GHz
Ref 10.5 dBm
Offset 0.5 dB
Att 20 dB
Center 2.460455 GHz
150 kHz/
Span 1.5 MHz
OVLD
1 PK VIEW

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 1kHz with suitable frequency span including 101MHz bandwidth from band edge. The band edges was measured and recorded.

4.6.4 DEVIATION FROM TEST STANDARD

No deviation.

4.6.5 EUT OPERATING CONDITION

Same as Item 4.3.6

4.6.6 TEST RESULTS

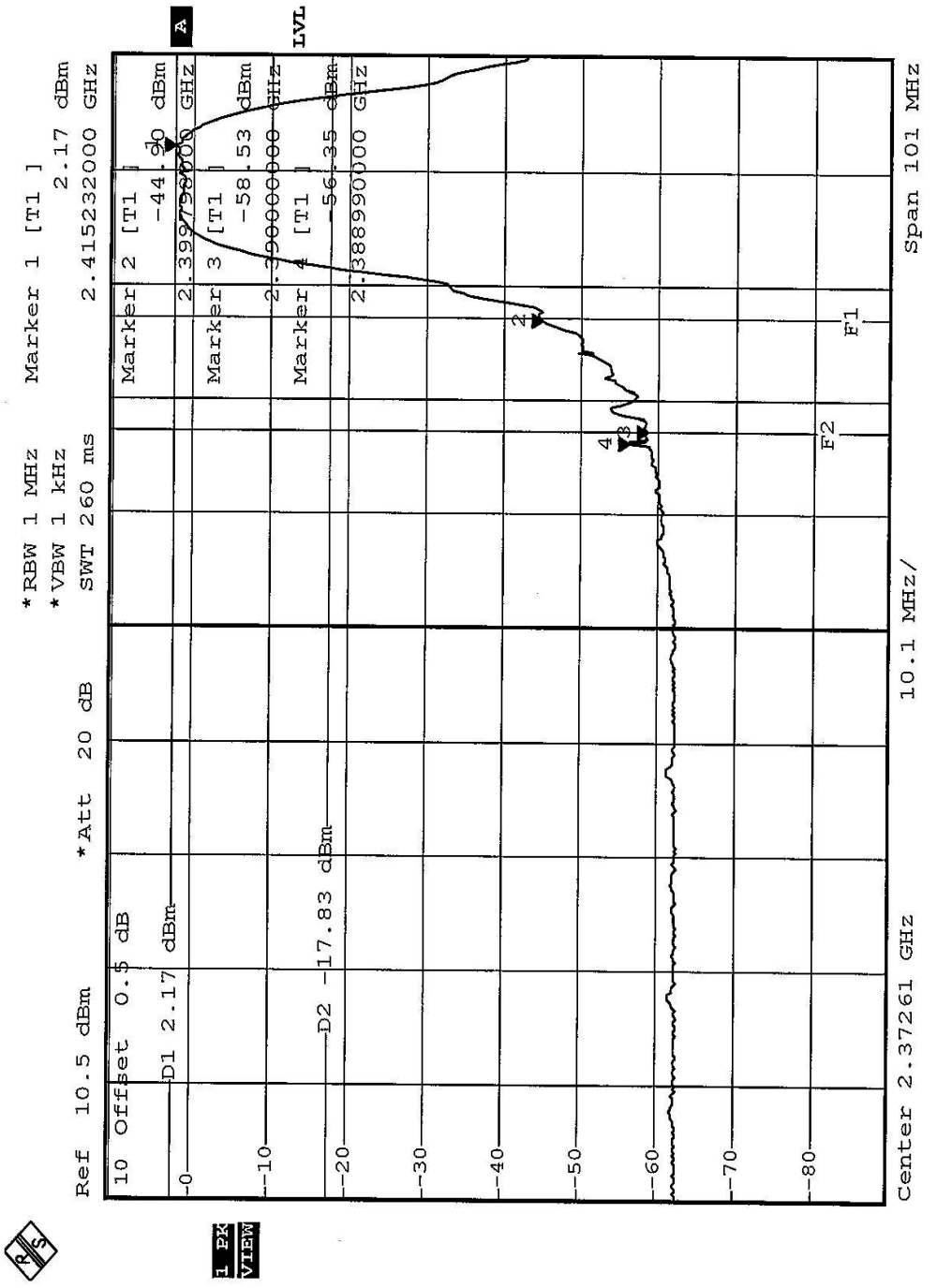
The spectrum plots are attached on the following 8 pages. D2 line indicates the highest level, D1 line indicates the 20dB offset below D2. It shows compliance with the requirement in part 15.247(C).

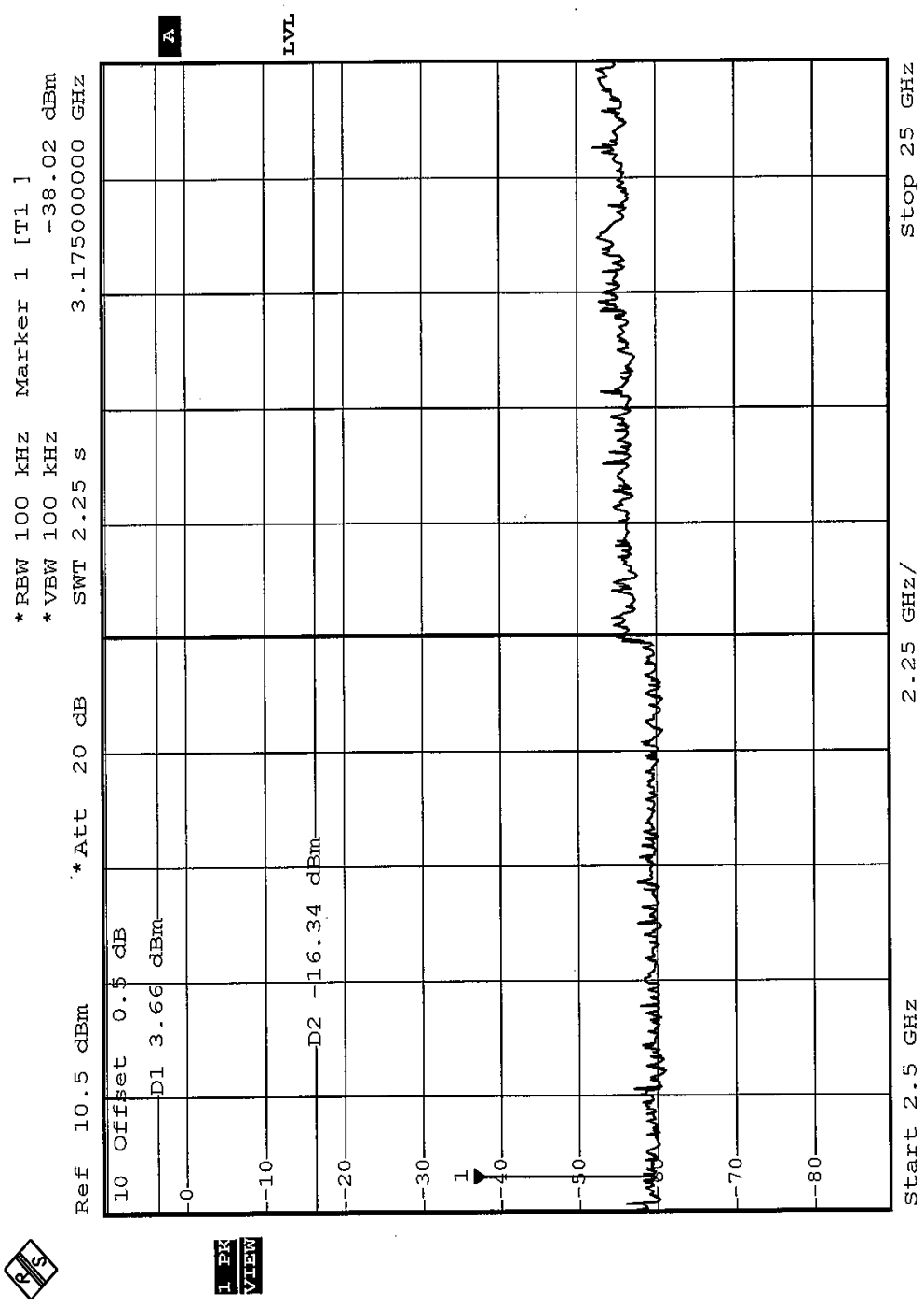
NOTE 1:
The band edge emission plot of the CCK on the following 1 ~ 2 pages show 58.52dB delta between carrier maximum power and local maximum emission in restrict band (2.3890GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.8 is 106.82dBuV/m, so the maximum field strength in restrict band is 106.82-58.52=48.30dBuV/m which is under 54dBuV/m limit.

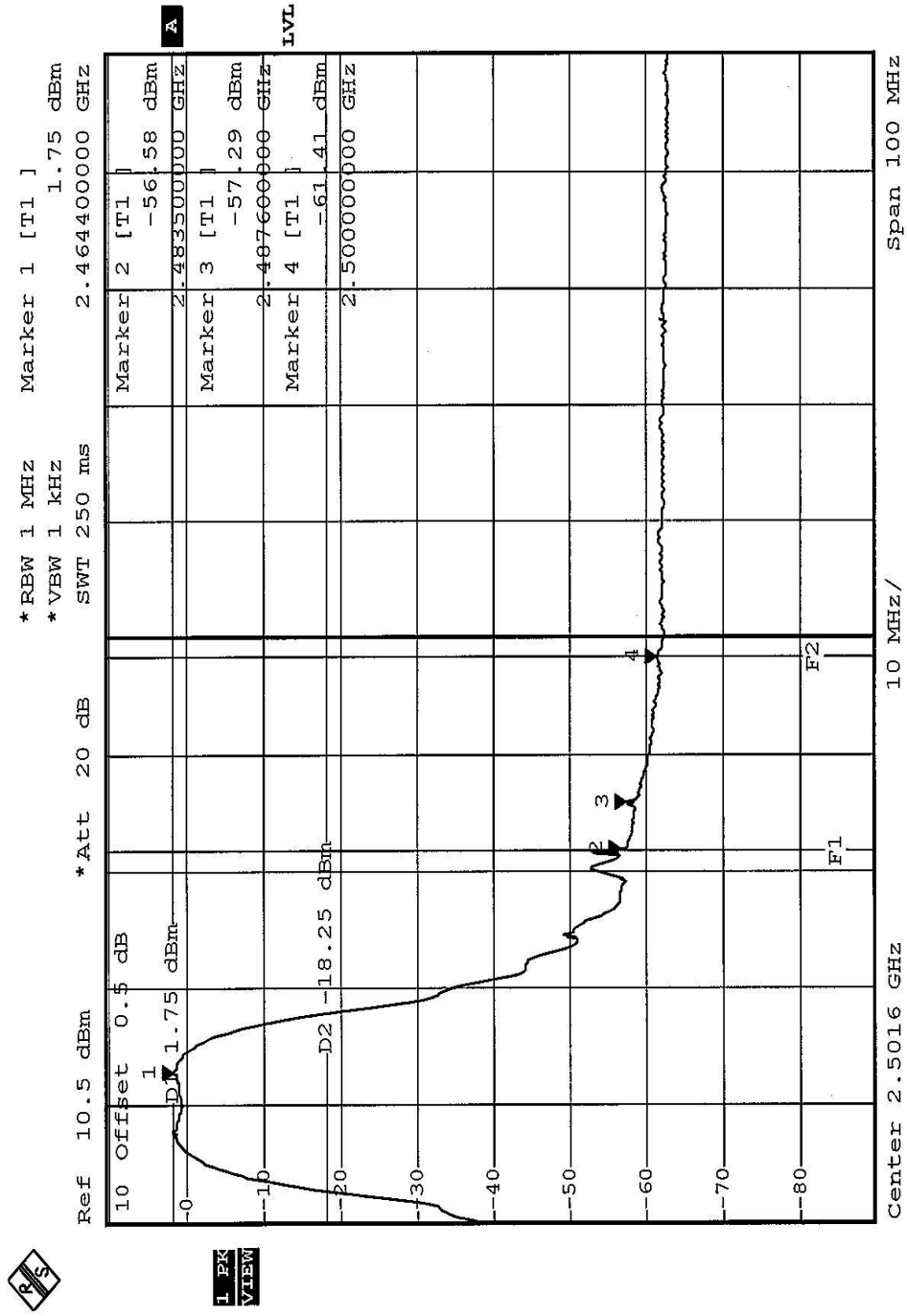
NOTE 2:
The band edge emission plot of the CCK on the following 3 ~ 4 pages show 58.33dB delta between carrier maximum power and local maximum emission in restrict band (2.4835GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.8 is 102.60dBuV/m, so the maximum field strength in restrict band is 102.60-58.33=44.27dBuV/m which is under 54 dBuV/m limit.

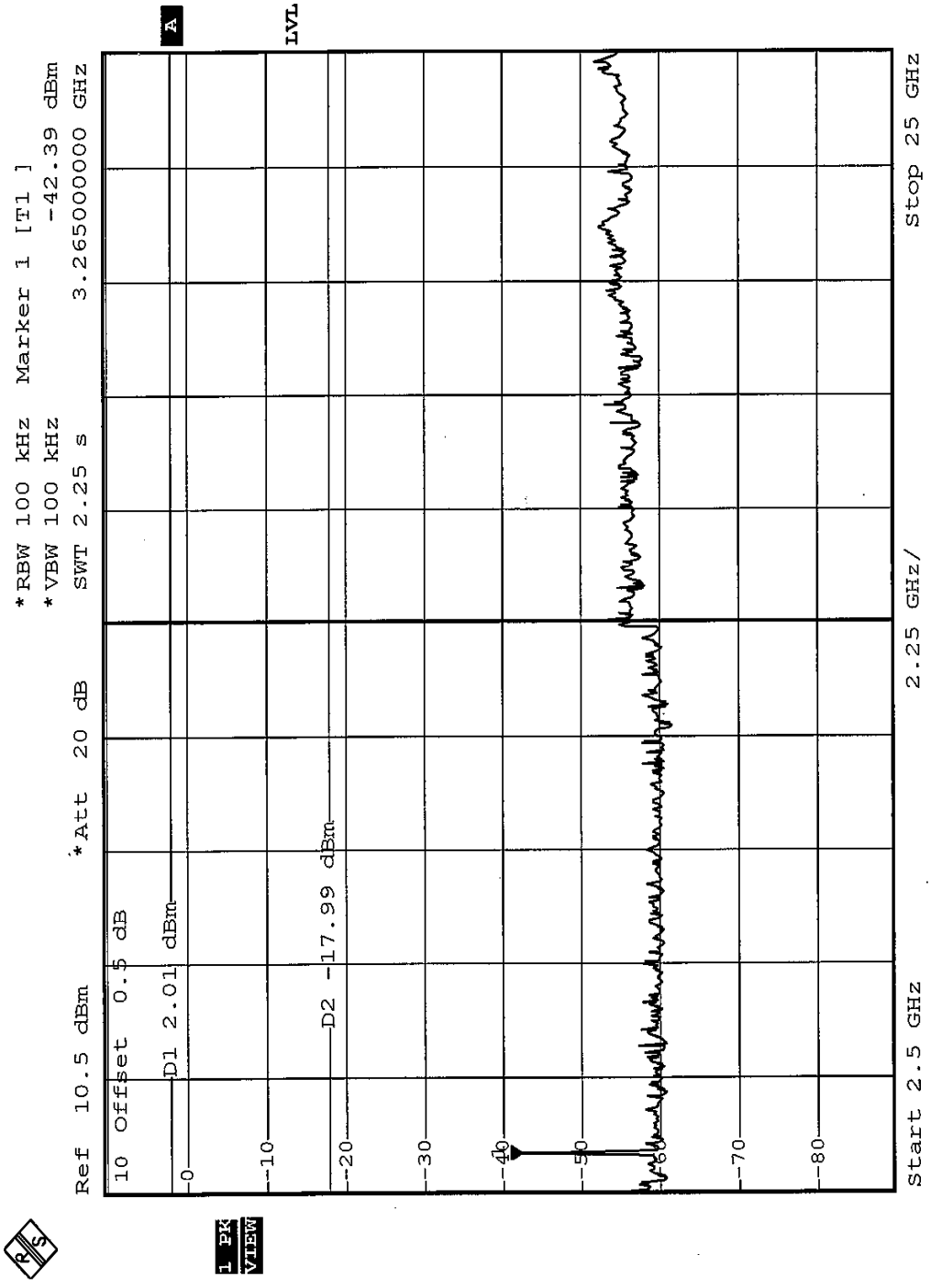
NOTE 3:
The band edge emission plot of the OFDM on the following 5 ~ 6 pages shows 56.59dB delta between carrier maximum power and local maximum emission in restrict band (2.3900GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.9 is 105.30dBuV/m, so the maximum field strength in restrict band is 105.30-56.59=48.71dBuV/m which is under 54dBuV/m limit.

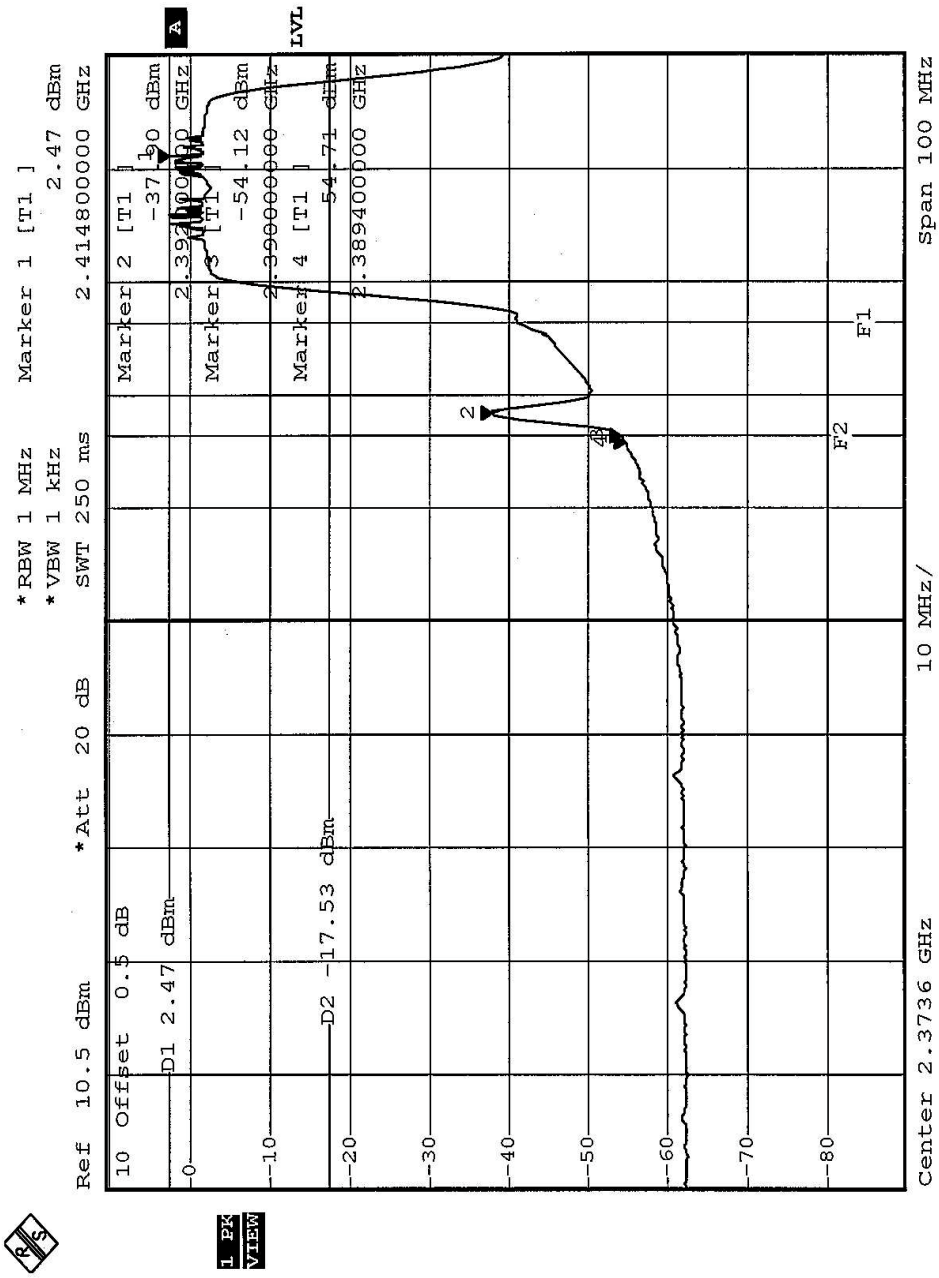
NOTE 4:
The band edge emission plot of the OFDM on the following 7 ~ 8 pages shows 52.59dB delta between carrier maximum power and local maximum emission in restrict band (2.4835GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.9 is 105.70dBuV/m, so the maximum field strength in restrict band is 105.70-52.59=53.11dBuV/m which is under 54dBuV/m limit.

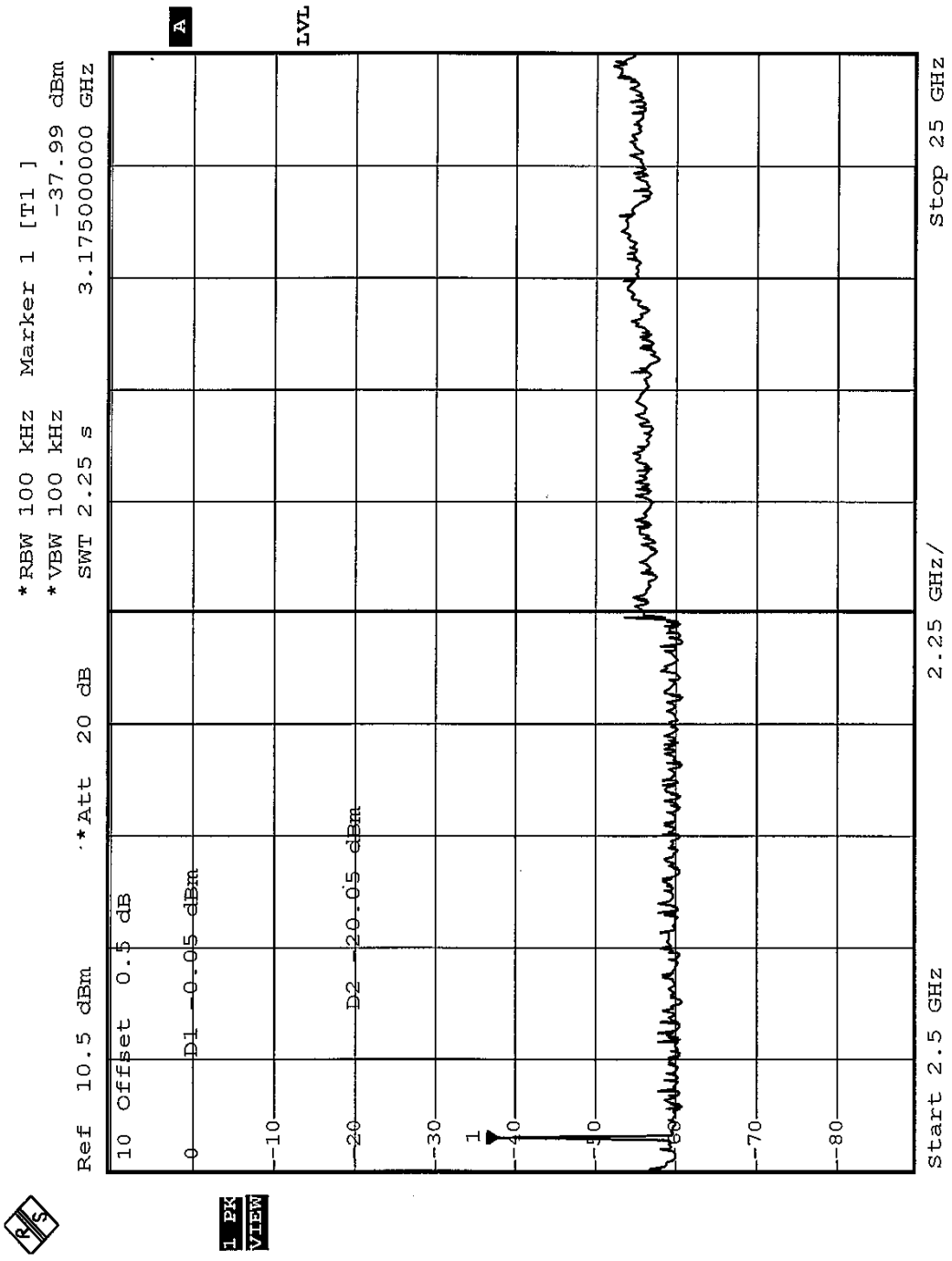

Ref 10.5 dBm
10 Offset 0.5 dB
D1 2.17 dBm
D2 -17.83 dBm
*Att 20 dB
*RBW 1 MHz
*VBW 1 kHz
SWT 260 ms
Marker 1 [T1]
2.17 dBm
2.41523200 GHz
Marker 2 [T1]
-44.90 dBm
2.39979600 GHz
Marker 3 [T1]
-58.53 dBm
2.39000000 GHz
Marker 4 [T1]
-56.35 dBm
2.38899000 GHz
A
LVL
1 PK VIEW
Center 2.37261 GHz
10.1 MHz/
Span 101 MHz
F1
F2

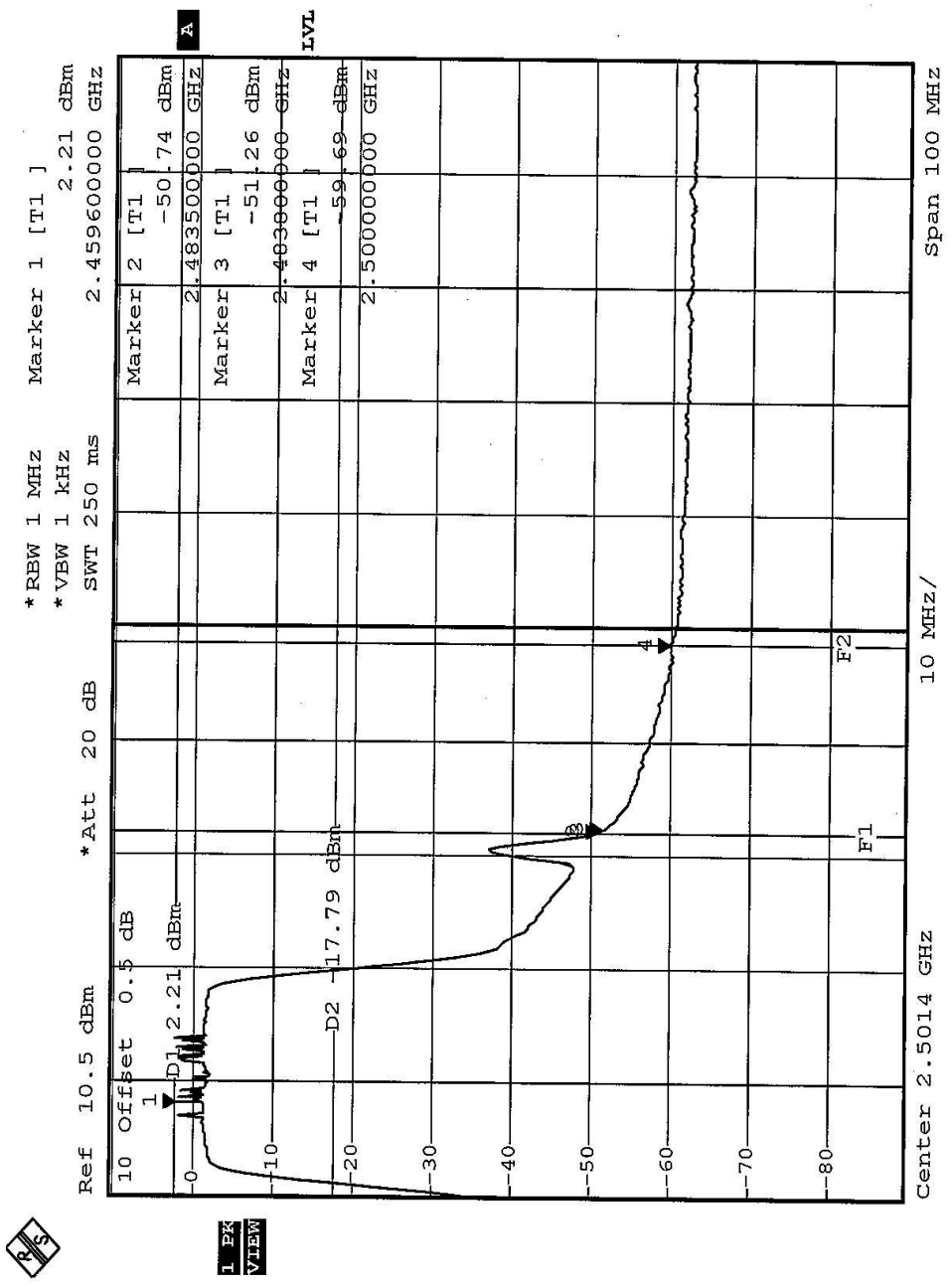

Ref 10.5 dBm
*Att 20 dB
*RBW 100 kHz
*VBW 100 kHz
SWT 2.25 s
Marker 1 [T1]
-38.02 dBm
3.17500000 GHz
10 Offset 0.5 dB
D1 3.66 dBm
D2 -16.34 dBm
LVL
A
1 PK
VIEW
Start 2.5 GHz
2.25 GHz/
Stop 25 GHz

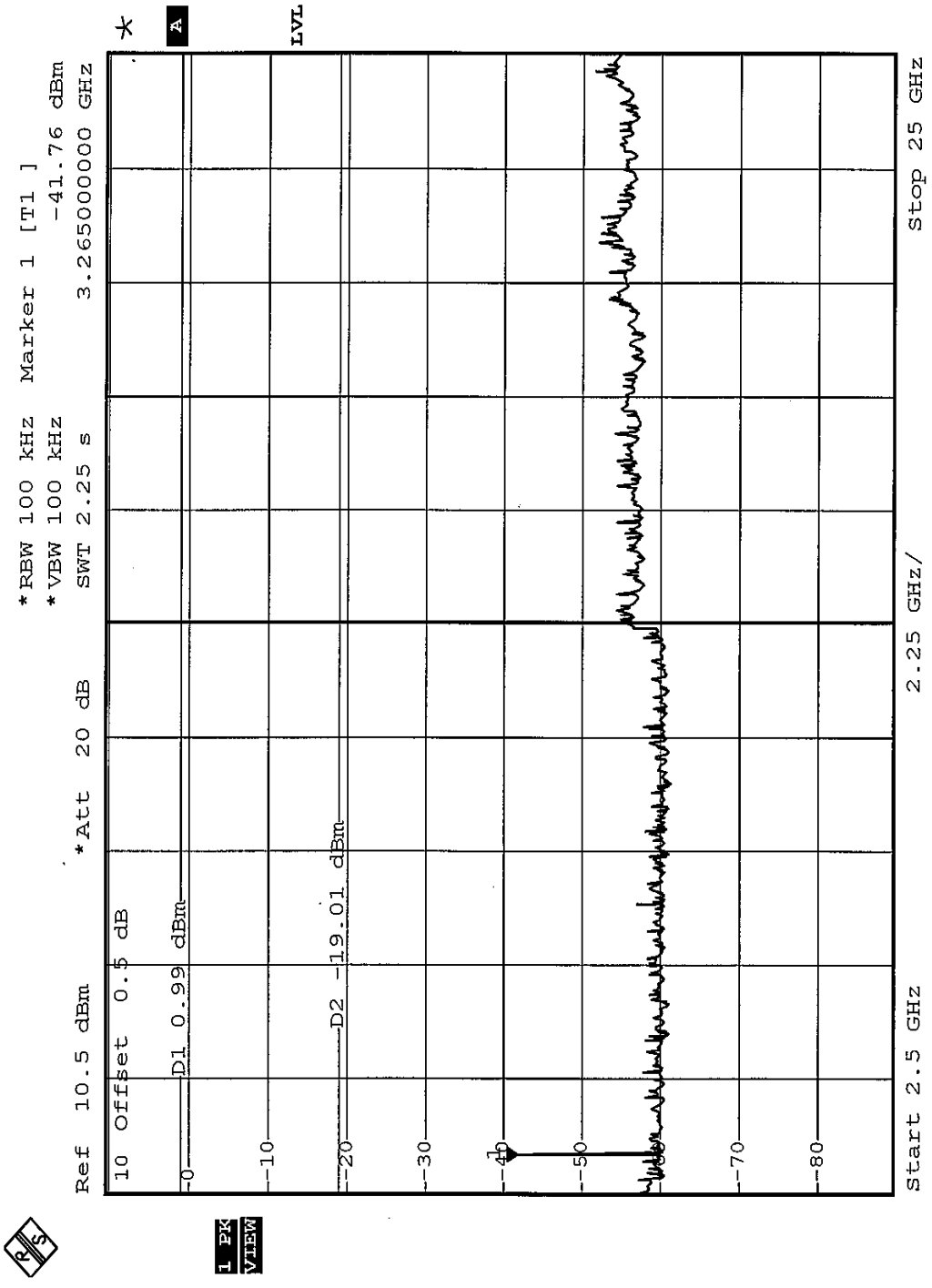

Ref 10.5 dBm
10 Offset 0.5 dB
*Att 20 dB
*RBW 1 MHz
*VBW 1 kHz
SWT 250 ms
Marker 1 [T1]
1.75 dBm
2.464400000 GHz
D1 1.75 dBm
D2 -18.25 dBm
Marker 2 [T1]
-56.58 dBm
2.483500000 GHz
Marker 3 [T1]
-57.29 dBm
2.487600000 GHz
Marker 4 [T1]
-61.41 dBm
2.500000000 GHz
LVL
A
1 PK VIEW
Center 2.5016 GHz
10 MHz/
Span 100 MHz
F1
F2


Ref 10.5 dBm
10 Offset 0.5 dB
D1 2.01 dBm
D2 -17.99 dBm
*Att 20 dB
*RBW 100 kHz
*VBW 100 kHz
SWT 2.25 s
Marker 1 [T1]
-42.39 dBm
3.26500000 GHz
A
LVL
1 PK
VIEW
Start 2.5 GHz
2.25 GHz/
Stop 25 GHz
0
-10
-20
-30
-40
-50
-60
-70
-80


Marker 1 [T1]
2.47 dBm
2.41480000 GHz
*RBW 1 MHz
*VBW 1 kHz
SWT 250 ms
*Att 20 dB
Ref 10.5 dBm
10 Offset 0.5 dB
D1 2.47 dBm
D2 -17.53 dBm
Marker 2 [T1]
-37.90 dBm
2.39200000 GHz
Marker 3 [T1]
-54.12 dBm
2.39000000 GHz
Marker 4 [T1]
-54.71 dBm
2.38940000 GHz
LVL
A
1 PK VIEW
F1
F2
Center 2.3736 GHz
10 MHz/
Span 100 MHz


Ref 10.5 dBm
10 Offset 0.5 dB
*Att 20 dB
*RBW 100 kHz
*VBW 100 kHz
SWT 2.25 s
Marker 1 [T1]
-37.99 dBm
3.17500000 GHz
D1 -0.05 dBm
D2 -20.05 dBm
LVL
A
1 PK
VIEW
Start 2.5 GHz
2.25 GHz/
Stop 25 GHz


Ref 10.5 dBm
10 Offset 0.5 dB
*Att 20 dB
*RBW 1 MHz
*VBW 1 kHz
SWT 250 ms
Marker 1 [T1]
2.21 dBm
2.45960000 GHz
Marker 2 [T1]
-50.74 dBm
2.48350000 GHz
Marker 3 [T1]
-51.26 dBm
2.40300000 GHz
Marker 4 [T1]
-59.69 dBm
2.50000000 GHz
LVL
A
D1 2.21 dBm
D2 -17.79 dBm
F1
F2
Center 2.5014 GHz
10 MHz/
Span 100 MHz
1 PK
VIEW


Ref 10.5 dBm
*Att 20 dB
*RBW 100 kHz
*VBW 100 kHz
SWT 2.25 s
Marker 1 [T1]
-41.76 dBm
3.26500000 GHz
10 Offset 0.5 dB
D1 0.99 dBm
D2 -19.01 dBm
1 PK VIEW
LVL
Start 2.5 GHz
2.25 GHz/
Stop 25 GHz

4.7 ANTENNA REQUIREMENT

4.7.1 STANDARD APPLICABLE

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

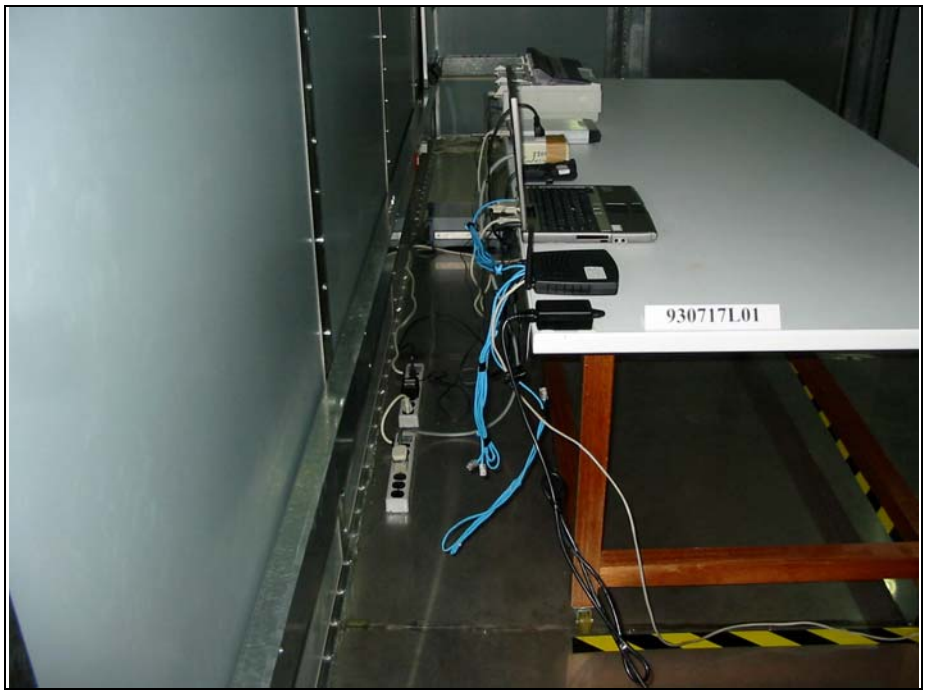
And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

4.7.2 ANTENNA CONNECTED CONSTRUCTION

The antenna type used in this product is dipole and printed antenna. And the maximum gain of this antenna is 3.8dBi There is no antenna connector.

5 PHOTOGRAPHS OF THE TEST CONFIGURATION

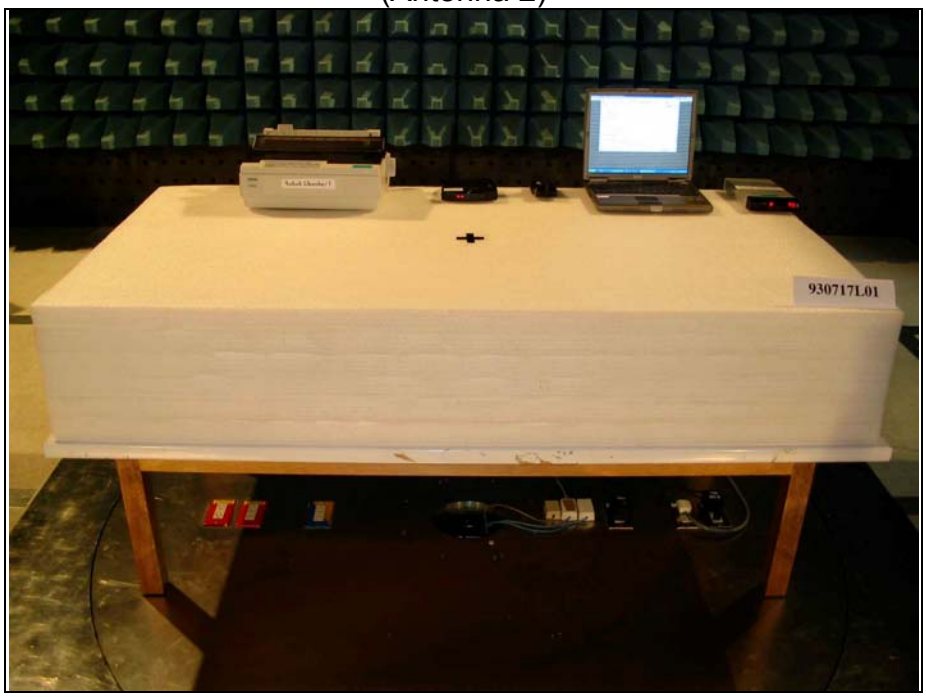
CONDUCTED EMISSION TEST
(Antenna 1)

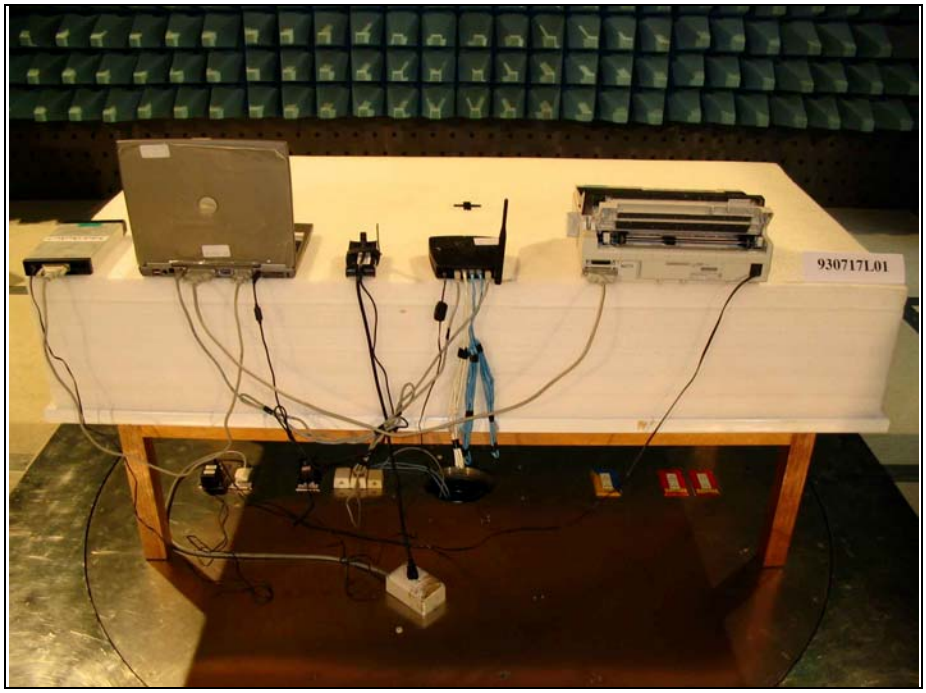


CONDUCTED EMISSION TEST
(Antenna 2)

RADIATED EMISSION TEST
(Antenna 1)

RADIATED EMISSION TEST
(Antenna 2)





6 INFORMATION ON THE TESTING LABORATORIES

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

USA	FCC, NVLAP, UL, A2LA
Germany	TUV Rheinland
Japan	VCCI
Norway	NEMKO
Canada	INDUSTRY CANADA , CSA
R.O.C.	CNLA, BSMI, DGT
Netherlands	Telefication
Singapore	PSB , GOST-ASIA(MOU)
Russia	CERTIS(MOU)

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

Linko EMC/RF Lab
Tel: 886-2-26052180
Fax: 886-2-26052943

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

Hwa Ya EMC/RF/Safety/Telecom Lab
Tel: 886-3-3183232
Fax: 886-3-3185050

Linko RF Lab
Tel: 886-3-3270910
Fax: 886-3-3270892

Email: service@mail.adt.com.tw
Web Site: www.adt.com.tw

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

Report Format Version 1.5