



FCC TEST REPORT

REPORT NO.: RF930821L04

MODEL NO.: WG602 v3

RECEIVED: Aug. 09, 2004

TESTED: Aug. 09 ~ Aug. 12, 2004

APPLICANT: NETGEAR, INC.

ADDRESS: 4500 GREAT AMERICA PARKWAY, SANTA,
CLARA, CA95054, U.S.A.

ISSUED BY: Advance Data Technology Corporation

LAB LOCATION: No. 19, Hwa Ya 2nd Rd., Kueishan, Taoyuan,
Taiwan, R.O.C.

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1 CERTIFICATION

PRODUCT : 802.11g Access Point
MODEL NO. : WG602 v3
BRAND NAME : NETGEAR
APPLICANT : NETGEAR, INC.
TESTED : Aug. 09 ~ Aug. 12, 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 : Stacy Hsueh , **DATE:** Sep. 03, 2004
(Stacy Hsueh)

TECHNICAL
ACCEPTANCE : Gary Chang , **DATE:** Sep. 03, 2004
Responsible for RF (Gary Chang)

APPROVED BY : Cody Chang , **DATE:** Sep. 03, 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 -115.37dB at 2.141MHz
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 -1.86dB at 9748.00MHz
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	3.55 dB
	200MHz ~1000MHz	3.58 dB
	1GHz ~ 18GHz	2.20 dB
	18GHz ~ 40GHz	1.88 dB

3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

PRODUCT	802.11g Access Point
MODEL NO.	WG602 v3
POWER SUPPLY	7.5Vdc from AC adapter
MODULATION TYPE	BPSK, QPSK, CCK, 16QAM, 64QAM
RADIO 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
OUTPUT POWER	17.53dBm
ANTENNA TYPE	Dipole antenna with 2.0dBi gain
DATA CABLE	NA
I/O PORTS	RJ45
ASSOCIATED DEVICES	NA

NOTE:

1. The EUT was tested with the following adapter:

BRAND:	OEM
MODEL :	AD-071AL
INPUT :	120Vac, 60Hz, 14W
OUTPUT :	7.5Vdc, 1A

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, 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. Two test results were presented in the following sections. The test result A was for CCK technique and the test result B was for OFDM technique.

3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a 802.11g Access Point. 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.

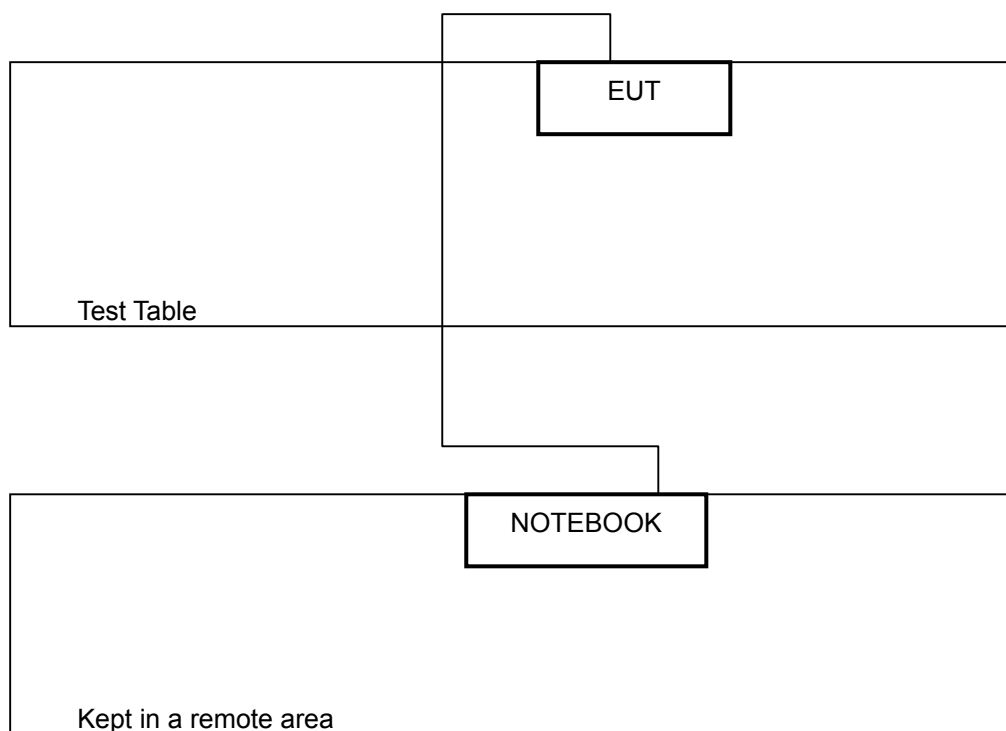
NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	NOTEBOOK COMPUTER	DELL	PP05L	16484462992	E2K24CLNS

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

NOTE:

1. All power cords of the above support units are non shielded (1.8m).
2. Item 1 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	66 to 56	56 to 46
0.5-5	56	46
5-30	60	50

- NOTE:**
1. The lower limit shall apply at the transition frequencies.
 2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.
 3. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

4.1.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
Test Receiver ROHDE & SCHWARZ	ESCS30	100291	Dec. 12, 2004
RF signal cable Woken	5D-FB	Cable-HYC01-01	Mar. 02, 2005
LISN ROHDE & SCHWARZ	ESH3-Z5	100312	Mar. 03, 2005
LISN ROHDE & SCHWARZ	ESH2-Z5	100104	Mar. 02, 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 1.
 3. The VCCI Site Registration No. is C-2040.



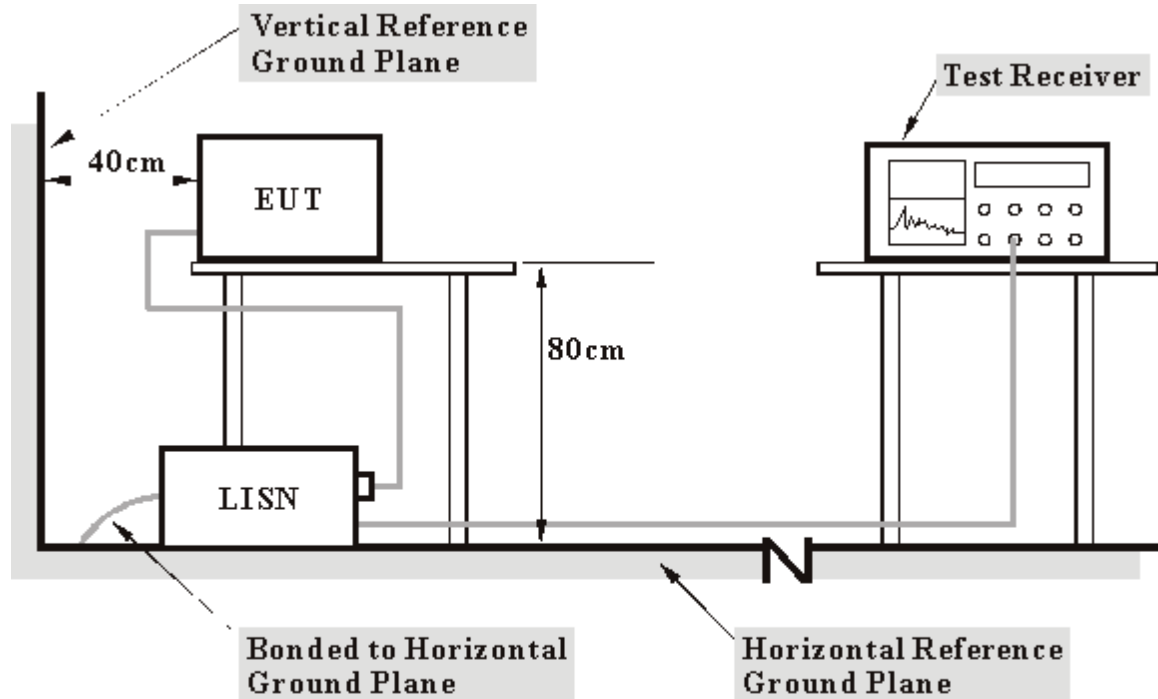
4.1.3 TEST PROCEDURES

- 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 150 kHz to 30 MHz was searched. Emission levels (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

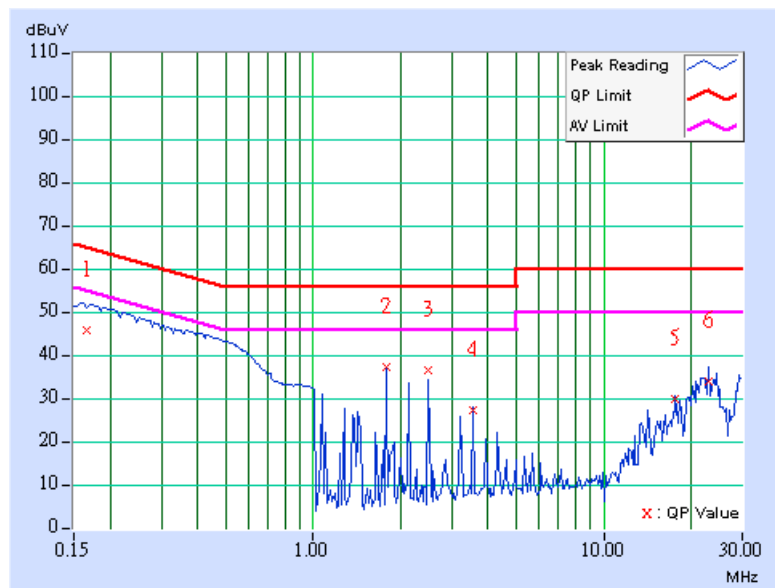
- a. Placed the EUT on the testing table.
- b. Prepared another Notebook system to act as a communication partner and placed it outside of testing area.
- c. The communication partner run a test program (provided by manufacturer) to enable EUT under transmission/receiving condition continuously at specific channel frequency via an RJ45 cable.
- d. The communication partner sent data to EUT by command "PING".

4.1.7 TEST RESULTS

EUT	802.11g Access Point	MODEL	WG602 v3
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	TESTED BY: Leo Hung	

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.166	0.11	44.73	-	44.84	-	65.18	55.18	-20.34	-
2	1.785	0.16	36.16	-	36.32	-	56.00	46.00	-19.68	-
3	2.496	0.17	35.62	-	35.79	-	56.00	46.00	-20.21	-
4	3.570	0.20	26.45	-	26.65	-	56.00	46.00	-29.35	-
5	17.695	0.91	28.83	-	29.74	-	60.00	50.00	-30.26	-
6	23.070	1.11	33.06	-	34.17	-	60.00	50.00	-25.83	-

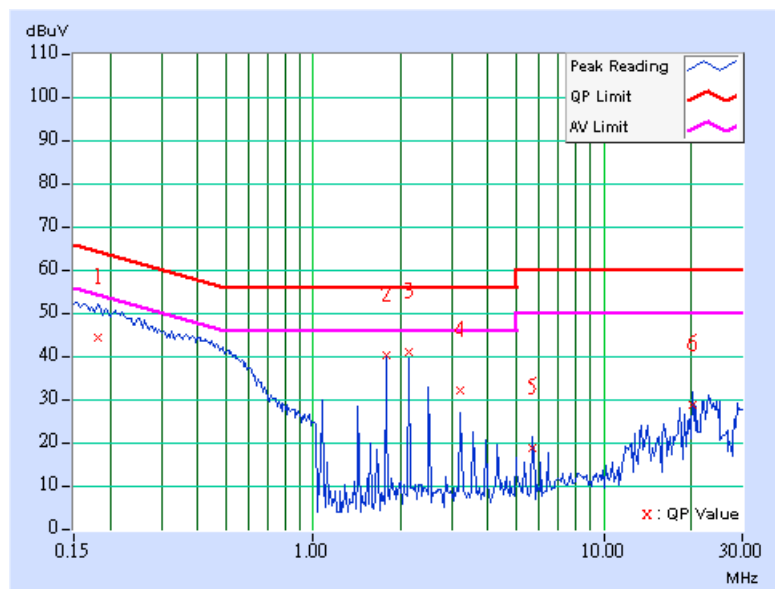
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT	802.11g Access Point	MODEL	WG602 v3
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	TESTED BY: Leo Hung	

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.181	0.11	43.69	-	43.80	-	64.43	54.43	-20.63	-
2	1.783	0.16	39.82	-	39.98	-	56.00	46.00	-16.02	-
3	2.141	0.16	40.47	-	40.63	-	56.00	46.00	-15.37	-
4	3.207	0.18	31.37	-	31.55	-	56.00	46.00	-24.45	-
5	5.707	0.24	18.22	-	18.46	-	60.00	50.00	-41.54	-
6	20.258	0.71	28.18	-	28.89	-	60.00	50.00	-31.11	-

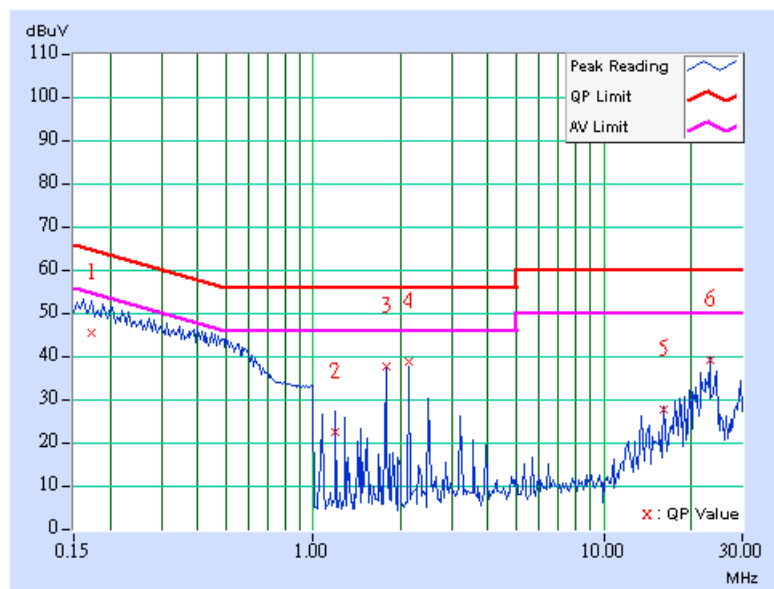
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 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = Emission level - Limit value
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



EUT	802.11g Access Point	MODEL	WG602 v3
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	TESTED BY: Leo Hung	

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.173	0.11	44.50	-	44.61	-	64.79	54.79	-20.18	-
2	1.188	0.15	21.64	-	21.79	-	56.00	46.00	-34.21	-
3	1.781	0.16	36.59	-	36.75	-	56.00	46.00	-19.25	-
4	2.141	0.16	37.79	-	37.95	-	56.00	46.00	-18.05	-
5	16.168	0.84	26.82	-	27.66	-	60.00	50.00	-32.34	-
6	23.129	1.11	38.21	-	39.32	-	60.00	50.00	-20.68	-

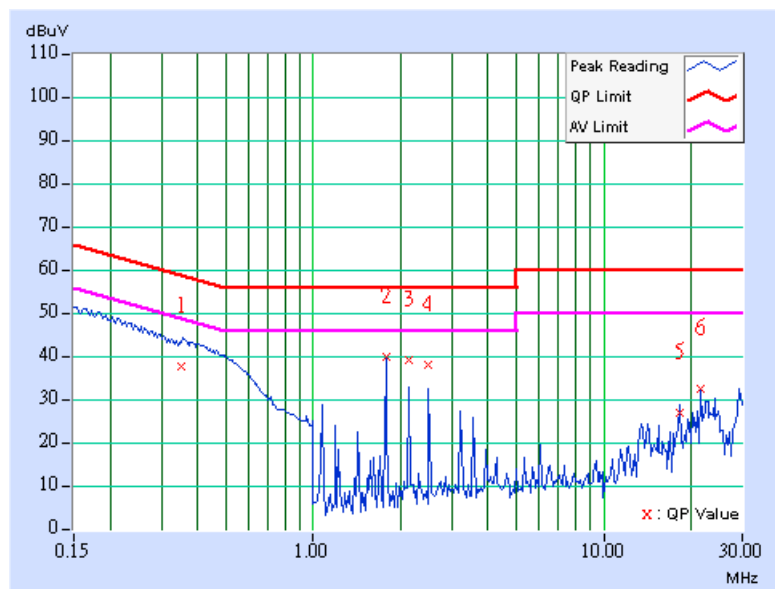
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2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission level - Limit value
5. Correction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



EUT	802.11g Access Point	MODEL	WG602 v3
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	TESTED BY: Leo Hung	

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.353	0.12	37.18	-	37.30	-	58.89	48.89	-21.59	-
2	1.781	0.16	39.45	-	39.61	-	56.00	46.00	-16.39	-
3	2.137	0.16	38.59	-	38.75	-	56.00	46.00	-17.25	-
4	2.496	0.17	37.46	-	37.63	-	56.00	46.00	-18.37	-
5	18.242	0.69	26.40	-	27.09	-	60.00	50.00	-32.91	-
6	21.664	0.70	31.75	-	32.45	-	60.00	50.00	-27.55	-

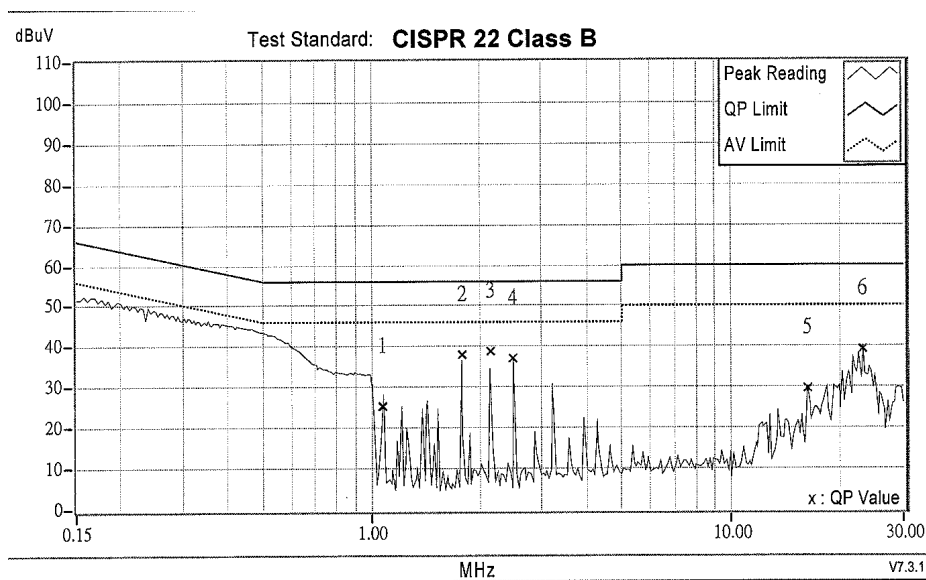
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3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission level - Limit value
5. Correction factor = Insertion loss + Cable loss
6. Emission Level = Correction Factor + Reading Value.



EUT	802.11g Access Point	MODEL	WG602 v3
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	TESTED BY: Leo Hung	

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	1.074	0.15	24.27	-	24.42	-	56.00	46.00	-31.58	-
2	1.781	0.16	36.69	-	36.85	-	56.00	46.00	-19.15	-
3	2.137	0.16	37.70	-	37.86	-	56.00	46.00	-18.14	-
4	2.496	0.17	36.14	-	36.31	-	56.00	46.00	-19.69	-
5	16.227	0.84	28.37	-	29.21	-	60.00	50.00	-30.79	-
6	23.129	1.11	38.19	-	39.30	-	60.00	50.00	-20.70	-

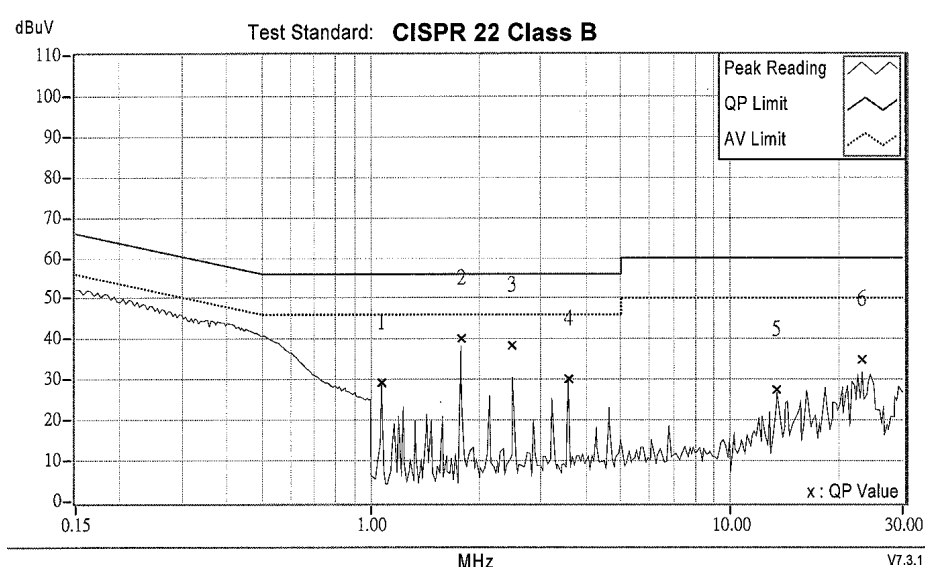
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2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission level - Limit value
5. Correction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



EUT	802.11g Access Point	MODEL	WG602 v3
CHANNEL	11	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	PHASE	Netural (N)
ENVIRONMENTAL CONDITIONS	24 deg. C, 64% RH, 991 hPa	TESTED BY: Leo Hung	

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	1.070	0.15	28.68	-	28.83	-	56.00	46.00	-27.17	-
2	1.781	0.16	39.55	-	39.71	-	56.00	46.00	-16.29	-
3	2.496	0.17	37.52	-	37.69	-	56.00	46.00	-18.31	-
4	3.566	0.19	29.27	-	29.46	-	56.00	46.00	-26.54	-
5	13.418	0.53	26.69	-	27.22	-	60.00	50.00	-32.78	-
6	23.129	0.68	34.21	-	34.89	-	60.00	50.00	-25.11	-

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



4.2 RADIATED EMISSION MEASUREMENT

4.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

Emissions radiated outside of the specified bands, shall be according to the general radiated limits in 15.209 as following:

Frequencies (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

NOTE:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

4.2.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
Test Receiver ROHDE & SCHWARZ	ESI7	100033	Jun, 08, 2005
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100040	Dec. 15, 2004
BILOG Antenna SCHWARZBECK	VULB9168	9168-153	Feb. 03, 2005
HORN Antenna SCHWARZBECK	9120D	9120D-408	Feb. 03, 2005
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA 9170243	Feb. 23, 2005
Preamplifier Agilent	8447D	2944A10633	Jan. 15, 2005
Preamplifier Agilent	8449B	3008A01964	Jan. 27, 2005
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	218183/4	Mar. 05, 2005
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	218195/4	Mar. 05, 2005
Software ADT.	ADT_Radiated_V5.14	NA	NA
Antenna Tower inn-co GmbH	MA 4000	013303	NA
Antenna Tower Controller inn-co GmbH	CO2000	017303	NA
Turn Table ADT.	TT100.	TT93021703	NA
Turn Table Controller ADT.	SC100.	SC93021703	NA

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

4.2.3 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter 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.

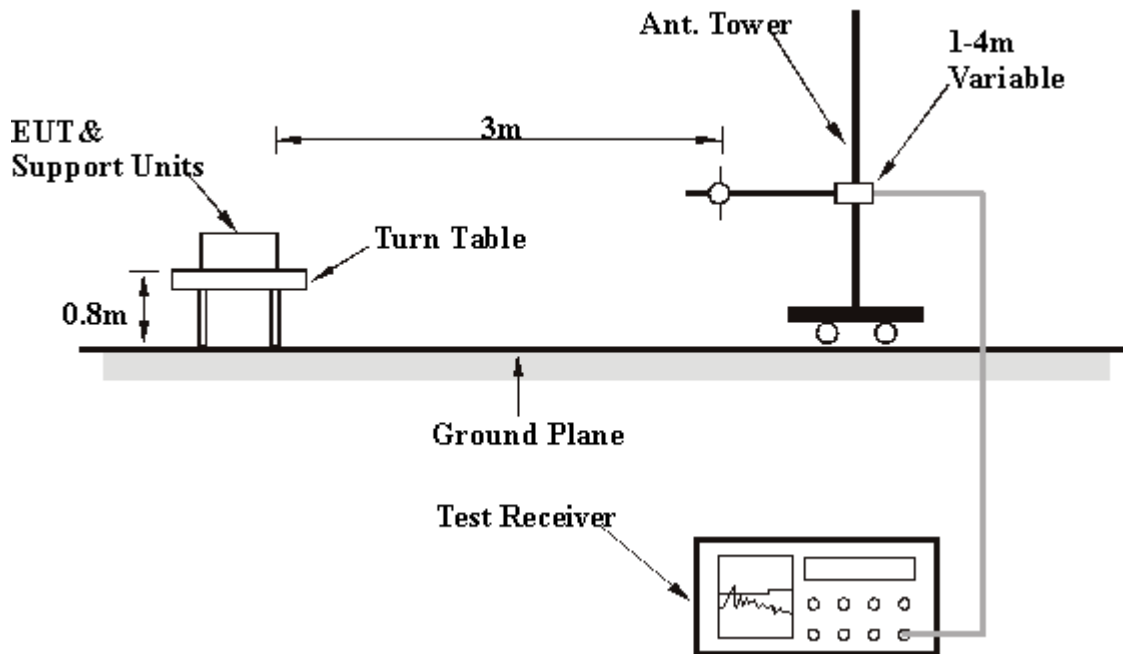
NOTE:

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 Access Point	MODEL	WG602 v3
CHANNEL	11	FREQUENCY RANGE	Below 1000 MHz
INPUT POWER (SYSTEM)	120 Vac, 60Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	27 deg. C, 61% RH, 991 hPa	TESTED BY: Long Chen	

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	399.34	34.81 QP	46.00	-11.19	1.00 H	142	17.87	16.95
2	500.42	37.80 QP	46.00	-8.20	1.00 H	196	19.08	18.72
3	599.56	35.29 QP	46.00	-10.71	1.50 H	304	14.05	21.24
4	700.64	36.82 QP	46.00	-9.18	1.00 H	148	14.30	22.53
5	799.78	33.81 QP	46.00	-12.19	1.00 H	205	10.04	23.77
6	900.86	37.01 QP	46.00	-8.99	1.50 H	247	11.76	25.25

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	60.21	36.06 QP	40.00	-3.94	2.00 V	13	22.14	13.92
2	101.92	31.26 QP	43.50	-12.24	1.00 V	70	19.96	11.30
3	300.20	32.88 QP	46.00	-13.12	1.50 V	184	18.07	14.81
4	399.34	39.49 QP	46.00	-6.51	1.00 V	133	22.54	16.95
5	500.42	37.06 QP	46.00	-8.94	1.00 V	46	18.34	18.72
6	599.56	37.31 QP	46.00	-8.69	1.00 V	187	16.07	21.24
7	751.18	36.02 QP	46.00	-9.98	1.00 V	196	12.34	23.68

- 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	802.11g Access Point	MODEL	WG602 v3
CHANNEL	1	FREQUENCY RANGE	1~25 GHz
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	27 deg. C, 61% RH, 991 hPa	TESTED BY	Long Chen

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1100.00	41.96 PK	74.00	-32.04	1.24 H	261	14.24	27.72
2	1608.00	42.66 PK	74.00	-31.34	1.00 H	43	13.99	28.68
3	2240.00	49.89 PK	74.00	-24.11	1.54 H	265	18.90	30.99
3	2240.00	38.53 AV	54.00	-15.47	1.54 H	265	7.54	30.99
4	2390.00	44.30 PK	74.00	-29.70	1.10 H	237	12.77	31.53
5	*2412.00	102.74 PK			1.10 H	237	71.12	31.62
5	*2412.00	95.24 AV			1.10 H	237	63.62	31.62
6	2590.00	58.74 PK	74.00	-15.26	1.24 H	264	26.38	32.36
6	2590.00	46.28 AV	54.00	-7.72	1.24 H	264	13.92	32.36
7	3216.00	47.11 PK	74.00	-26.89	1.07 H	183	13.56	33.55
8	4824.00	49.89 PK	74.00	-24.11	1.11 H	127	12.18	37.71
8	4824.00	41.50 AV	54.00	-12.50	1.11 H	127	3.79	37.71
9	9648.00	57.48 PK	74.00	-16.52	1.82 H	16	10.76	46.72
9	9648.00	45.13 AV	54.00	-8.87	1.82 H	16	-1.59	46.72

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 Access Point	MODEL	WG602 v3
CHANNEL	1	FREQUENCY RANGE	1~25 GHz
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	27 deg. C, 61% RH, 991 hPa	TESTED BY	Long Chen

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	1100.00	42.83 PK	74.00	-31.17	1.66 V	0	15.11	27.72
2	1200.00	44.79 PK	74.00	-29.21	1.03 V	20	16.82	27.97
3	1396.00	45.35 PK	74.00	-28.65	1.29 V	239	16.33	29.02
4	1500.00	43.46 PK	74.00	-30.54	1.44 V	356	14.54	28.92
5	1600.00	42.46 PK	74.00	-31.54	1.00 V	332	13.79	28.67
6	1608.00	45.65 PK	74.00	-28.35	1.00 V	222	16.97	28.68
7	1797.00	47.05 PK	74.00	-26.95	1.00 V	5	18.16	28.90
8	2232.00	58.73 PK	74.00	-15.27	1.43 V	144	27.78	30.95
8	2232.00	45.93 AV	54.00	-8.07	1.43 V	144	14.98	30.95
9	2390.00	54.77 PK	74.00	-19.23	1.03 V	210	23.24	31.53
9	2390.00	47.54 AV	54.00	-6.46	1.03 V	210	16.01	31.53
10	*2412.00	113.21 PK			1.03 V	210	81.59	31.62
10	*2412.00	105.98 AV			1.03 V	210	74.36	31.62
11	2586.00	67.67 PK	74.00	-6.33	1.45 V	1	35.32	32.34
12	2655.00	43.88 PK	74.00	-30.12	1.45 V	1	11.36	32.52
13	3216.00	49.91 PK	74.00	-24.09	1.30 V	206	16.36	33.55
13	3216.00	38.75 AV	54.00	-15.25	1.30 V	206	5.20	33.55
14	4824.00	55.46 PK	74.00	-18.54	1.16 V	57	17.75	37.71
14	4824.00	48.34 AV	54.00	-5.66	1.16 V	57	10.63	37.71
15	7236.00	55.59 PK	74.00	-18.41	1.00 V	230	11.81	43.78
15	7236.00	43.23 AV	54.00	-10.77	1.00 V	230	-0.55	43.78
16	9648.00	64.74 PK	74.00	-9.26	1.58 V	29	18.02	46.72

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 Access Point	MODEL	WG602 v3
CHANNEL	6	FREQUENCY RANGE	1~25 GHz
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	27 deg. C, 61% RH, 991 hPa	TESTED BY	Long Chen

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1200.00	42.69 PK	74.00	-31.31	1.00 H	182	14.72	27.97
2	1400.00	42.68 PK	74.00	-31.32	1.42 H	258	13.64	29.04
3	1624.00	46.21 PK	74.00	-27.79	1.92 H	48	17.52	28.69
4	2241.00	46.46 PK	74.00	-27.54	1.52 H	271	15.46	31.00
5	*2437.00	101.47 PK			1.49 H	164	69.71	31.76
5	*2437.00	94.62 AV			1.49 H	164	62.86	31.76
6	2600.00	46.95 PK	74.00	-27.05	1.25 H	96	14.57	32.38
7	4874.00	49.91 PK	74.00	-24.09	1.21 H	227	12.10	37.81
7	4874.00	39.41 AV	54.00	-14.59	1.21 H	227	1.60	37.81
8	9748.00	61.20 PK	74.00	-12.80	1.16 H	184	14.51	46.69
8	9748.00	52.14 AV	54.00	-1.86	1.16 H	184	5.45	46.69

REMARKS:

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

EUT	802.11g Access Point	MODEL	WG602 v3
CHANNEL	6	FREQUENCY RANGE	1~25 GHz
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	27 deg. C, 61% RH, 991 hPa	TESTED BY	Long Chen

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	1200.00	46.97 PK	74.00	-27.03	1.00 V	249	19.00	27.97
2	1400.00	45.69 PK	74.00	-28.31	1.24 V	172	16.65	29.04
3	1624.00	45.28 PK	74.00	-28.72	1.00 V	221	16.59	28.69
4	*2437.00	113.35 PK			1.31 V	221	81.59	31.76
4	*2437.00	105.88 AV			1.31 V	221	74.12	31.76
5	2441.00	51.47 PK	74.00	-22.53	1.00 V	148	19.68	31.79
5	2441.00	42.95 AV	54.00	-11.05	1.00 V	148	11.16	31.79
6	2609.00	61.09 PK	74.00	-12.91	1.20 V	212	28.69	32.40
6	2609.00	48.33 AV	54.00	-5.67	1.20 V	212	15.93	32.40
7	3249.00	47.86 PK	74.00	-26.14	1.13 V	20	14.25	33.61
8	4874.00	54.08 PK	74.00	-19.92	1.25 V	336	16.27	37.81
8	4874.00	43.41 AV	54.00	-10.59	1.25 V	336	5.60	37.81
9	9748.00	64.78 PK	74.00	-9.22	1.22 V	191	18.09	46.69

REMARKS:

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

EUT	802.11g Access Point	MODEL	WG602 v3
CHANNEL	11	FREQUENCY RANGE	1~25 GHz
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	27 deg. C, 61% RH, 991 hPa	TESTED BY	Long Chen

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1200.00	41.48 PK	74.00	-32.52	1.00 H	171	13.51	27.97
2	1400.00	42.14 PK	74.00	-31.86	1.36 H	200	13.10	29.04
3	1608.00	43.44 PK	74.00	-30.56	1.99 H	52	14.77	28.68
4	2288.00	43.84 PK	74.00	-30.16	1.05 H	142	12.58	31.26
5	*2462.00	102.77 PK			1.52 H	307	70.86	31.91
5	*2462.00	95.47 AV			1.52 H	307	63.56	31.91
6	2483.50	42.61 PK	74.00	-31.39	1.52 H	307	10.58	32.03
7	2633.00	49.69 PK	74.00	-24.31	1.35 H	303	17.23	32.46
7	2633.00	37.21 AV	54.00	-16.79	1.35 H	303	4.75	32.46
8	4924.00	50.60 PK	74.00	-23.40	1.26 H	57	12.69	37.91
8	4924.00	39.48 AV	54.00	-14.52	1.26 H	57	1.57	37.91
9	9848.00	60.53 PK	74.00	-13.47	1.27 H	194	13.72	46.81
9	9848.00	51.25 AV	54.00	-2.75	1.27 H	194	4.44	46.81

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 Access Point	MODEL	WG602 v3
CHANNEL	11	FREQUENCY RANGE	1~25 GHz
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	27 deg. C, 61% RH, 991 hPa	TESTED BY	Long Chen

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	1200.00	44.87 PK	74.00	-29.13	1.33 V	178	16.90	27.97
2	1395.00	43.89 PK	74.00	-30.11	1.41 V	240	14.87	29.01
3	1641.00	45.51 PK	74.00	-28.49	1.68 V	159	16.81	28.70
4	2290.00	53.54 PK	74.00	-20.46	1.34 V	161	22.27	31.27
4	2290.00	41.69 AV	54.00	-12.31	1.34 V	161	10.42	31.27
5	*2462.00	113.92 PK			1.00 V	148	82.01	31.91
5	*2462.00	106.43 AV			1.00 V	148	74.52	31.91
6	2483.50	53.76 PK	74.00	-20.24	1.00 V	148	21.73	32.03
6	2483.50	46.31 AV	54.00	-7.69	1.00 V	148	14.28	32.03
7	2623.00	56.95 PK	74.00	-17.05	1.23 V	119	24.51	32.44
7	2623.00	44.57 AV	54.00	-9.43	1.23 V	119	12.13	32.44
8	2655.00	48.21 PK	74.00	-25.79	1.23 V	119	15.69	32.52
8	2655.00	37.39 AV	54.00	-16.61	1.23 V	119	4.87	32.52
9	3282.00	47.55 PK	74.00	-26.45	1.07 V	192	13.89	33.67
9	3282.00	38.62 AV	54.00	-15.38	1.07 V	192	4.96	33.67
10	4924.00	53.72 PK	74.00	-20.28	1.12 V	90	15.81	37.91
10	4924.00	44.68 AV	54.00	-9.32	1.12 V	90	6.77	37.91
11	9848.00	65.61 PK	74.00	-8.39	1.10 V	228	18.80	46.81

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 Access Point	MODEL	WG602 v3
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	TESTED BY	Long Chen

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1100.00	47.98 PK	74.00	-26.02	1.18 H	242	20.26	27.72
2	1400.00	45.87 PK	74.00	-28.13	1.14 H	282	16.83	29.04
3	1608.00	46.98 PK	74.00	-27.02	1.18 H	186	18.30	28.68
4	2238.00	52.18 PK	74.00	-21.82	2.08 H	241	21.20	30.98
4	2238.00	40.17 AV	54.00	-13.83	2.08 H	241	9.19	30.98
5	2390.00	48.27 PK	74.00	-25.73	2.02 H	84	16.74	31.53
6	*2412.00	98.74 PK			2.02 H	84	67.12	31.62
6	*2412.00	89.20 AV			2.02 H	84	57.58	31.62
7	2598.00	55.89 PK	74.00	-18.11	2.05 H	217	23.51	32.37
7	2598.00	44.62 AV	54.00	-9.38	2.05 H	217	12.24	32.37
8	3216.00	50.76 PK	74.00	-23.24	1.17 H	182	17.21	33.55
8	3216.00	46.29 AV	54.00	-7.71	1.17 H	182	12.74	33.55
9	4824.00	49.95 PK	74.00	-24.05	1.46 H	225	12.24	37.71
10	9648.00	54.17 PK	74.00	-19.83	1.18 H	247	7.45	46.72
10	9648.00	41.19 AV	54.00	-12.81	1.18 H	247	-5.53	46.72

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 Access Point	MODEL	WG602 v3
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	TESTED BY	Long Chen

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	1100.00	49.68 PK	74.00	-24.32	1.42 V	160	21.96	27.72
2	1400.00	46.71 PK	74.00	-27.29	1.56 V	137	17.67	29.04
3	1608.00	44.73 PK	74.00	-29.27	1.34 V	115	16.06	28.68
4	2200.00	53.69 PK	74.00	-20.31	1.35 V	117	22.92	30.77
4	2200.00	42.78 AV	54.00	-11.22	1.35 V	117	12.01	30.77
5	2390.00	61.50 PK	74.00	-12.50	2.04 V	178	29.97	31.53
5	2390.00	51.55 AV	54.00	-2.45	2.04 V	178	20.02	31.53
6	*2412.00	110.95 PK			2.04 V	178	79.33	31.62
6	*2412.00	101.40 AV			2.04 V	178	69.78	31.62
7	2598.00	58.71 PK	74.00	-15.29	1.40 V	164	26.34	32.37
7	2598.00	47.54 AV	54.00	-6.46	1.40 V	164	15.16	32.37
8	3216.00	47.55 PK	74.00	-26.45	1.85 V	118	14.00	33.55
9	4824.00	53.21 PK	74.00	-20.79	1.00 V	152	15.50	37.71
9	4824.00	40.32 AV	54.00	-13.68	1.00 V	152	2.61	37.71
10	9648.00	58.67 PK	74.00	-15.33	1.24 V	214	11.95	46.72
10	9648.00	45.78 AV	54.00	-8.22	1.24 V	214	-0.94	46.72

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 Access Point	MODEL	WG602 v3
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	TESTED BY	Long Chen

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1100.00	47.64 PK	74.00	-26.36	1.00 H	241	19.92	27.72
2	1400.00	44.58 PK	74.00	-29.42	1.21 H	144	15.54	29.04
3	1624.00	45.48 PK	74.00	-28.52	1.10 H	210	16.79	28.69
4	2240.00	51.78 PK	74.00	-22.22	1.12 H	141	20.79	30.99
4	2240.00	41.91 AV	54.00	-12.09	1.12 H	141	10.92	30.99
5	*2437.00	102.36 PK			1.32 H	238	70.60	31.76
5	*2437.00	91.87 AV			1.32 H	238	60.11	31.76
6	2623.00	53.41 PK	74.00	-20.59	1.03 H	214	20.97	32.44
6	2623.00	43.81 AV	54.00	-10.19	1.03 H	214	11.37	32.44
7	3248.00	49.58 PK	74.00	-24.42	1.21 H	201	15.97	33.61
8	4874.00	51.60 PK	74.00	-22.40	1.45 H	221	13.79	37.81
8	4874.00	37.15 AV	54.00	-16.85	1.45 H	221	-0.66	37.81
9	9748.00	58.77 PK	74.00	-15.23	1.18 H	242	12.08	46.69
9	9748.00	45.28 AV	54.00	-8.72	1.18 H	242	-1.41	46.69

REMARKS:

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

EUT	802.11g Access Point	MODEL	WG602 v3
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	TESTED BY	Long Chen

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	1100.00	49.68 PK	74.00	-24.32	1.42 V	160	21.96	27.72
2	1400.00	46.71 PK	74.00	-27.29	1.56 V	137	17.67	29.04
3	1608.00	44.73 PK	74.00	-29.27	1.34 V	115	16.06	28.68
4	2200.00	53.69 PK	74.00	-20.31	1.35 V	117	22.92	30.77
4	2200.00	42.78 AV	54.00	-11.22	1.35 V	117	12.01	30.77
5	2390.00	61.50 PK	74.00	-12.50	2.04 V	178	29.97	31.53
5	2390.00	51.55 AV	54.00	-2.45	2.04 V	178	20.02	31.53
6	*2412.00	110.95 PK	74.00		2.04 V	178	79.33	31.62
6	*2412.00	101.40 AV	54.00		2.04 V	178	69.78	31.62
7	2598.00	58.71 PK	74.00	-15.29	1.40 V	164	26.34	32.37
7	2598.00	47.54 AV	54.00	-6.46	1.40 V	164	15.16	32.37
8	3216.00	47.55 PK	74.00	-26.45	1.85 V	118	14.00	33.55
9	4824.00	53.21 PK	74.00	-20.79	1.00 V	152	15.50	37.71
9	4824.00	40.32 AV	54.00	-13.68	1.00 V	152	2.61	37.71
10	9648.00	58.67 PK	74.00	-15.33	1.24 V	214	11.95	46.72
10	9648.00	45.78 AV	54.00	-8.22	1.24 V	214	-0.94	46.72

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 Access Point	MODEL	WG602 v3
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	TESTED BY	Long Chen

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1100.00	48.31 PK	74.00	-25.69	1.24 H	228	20.59	27.72
2	1400.00	46.28 PK	74.00	-27.72	1.19 H	281	17.24	29.04
3	1641.00	43.29 PK	74.00	-30.71	1.00 H	217	14.59	28.70
4	2287.00	53.42 PK	74.00	-20.58	1.11 H	125	22.16	31.26
4	2287.00	32.21 AV	54.00	-21.79	1.11 H	125	0.95	31.26
5	*2462.00	97.72 PK			1.95 H	85	65.81	31.91
5	*2462.00	87.35 AV			1.95 H	85	55.44	31.91
6	2483.50	49.64 PK	74.00	-24.36	1.95 H	85	17.61	32.03
7	2634.00	62.36 PK	74.00	-11.64	1.28 H	290	29.89	32.47
7	2634.00	42.29 AV	54.00	-11.71	1.28 H	290	9.82	32.47
8	3282.00	46.51 PK	74.00	-27.49	1.24 H	228	12.84	33.67
9	4924.00	47.91 PK	74.00	-26.09	1.41 H	279	10.00	37.91
10	9848.00	53.29 PK	74.00	-20.71	1.32 H	318	6.48	46.81
10	9848.00	40.71 AV	54.00	-13.29	1.32 H	318	-6.10	46.81

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 Access Point	MODEL	WG602 v3
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	TESTED BY	Long Chen

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	1100.00	47.62 PK	74.00	-26.38	1.00 V	241	19.90	27.72
2	1400.00	45.31 PK	74.00	-28.69	1.24 V	262	16.27	29.04
3	1641.00	45.08 PK	74.00	-28.92	1.24 V	170	16.38	28.70
4	2290.00	59.92 PK	74.00	-14.08	1.10 V	216	28.65	31.27
4	2290.00	39.86 AV	54.00	-14.14	1.10 V	216	8.59	31.27
5	*2462.00	109.92 PK			1.41 V	178	78.01	31.91
5	*2462.00	99.83 AV			1.41 V	178	67.92	31.91
6	2483.50	61.84 PK	74.00	-12.16	1.41 V	178	29.81	32.03
6	2483.50	51.75 AV	54.00	-2.25	1.41 V	178	19.72	32.03
7	2635.00	68.58 PK	74.00	-5.42	1.20 V	142	36.11	32.47
7	2635.00	45.90 AV	54.00	-8.10	1.20 V	142	13.43	32.47
8	3282.00	49.63 PK	74.00	-24.37	1.24 V	170	15.97	33.67
9	4924.00	52.39 PK	74.00	-21.61	1.08 V	152	14.48	37.91
9	4924.00	43.06 AV	54.00	-10.94	1.08 V	152	5.15	37.91
10	9848.00	59.42 PK	74.00	-14.58	1.15 V	195	12.61	46.81
10	9848.00	45.16 AV	54.00	-8.84	1.15 V	195	-1.65	46.81

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 0.5MHz.

4.3.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
SPECTRUM ANALYZER	FSEK30	100049	Aug. 12, 2005

NOTE:

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

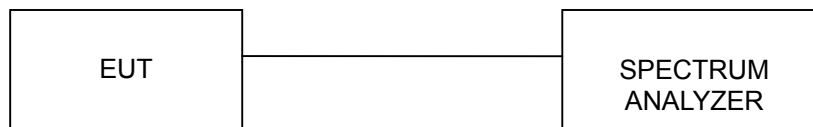
4.3.3 TEST PROCEDURE

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

4.3.4 DEVIATION FROM TEST STANDARD

No deviation

4.3.5 TEST SETUP



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

4.3.6 EUT OPERATING CONDITIONS

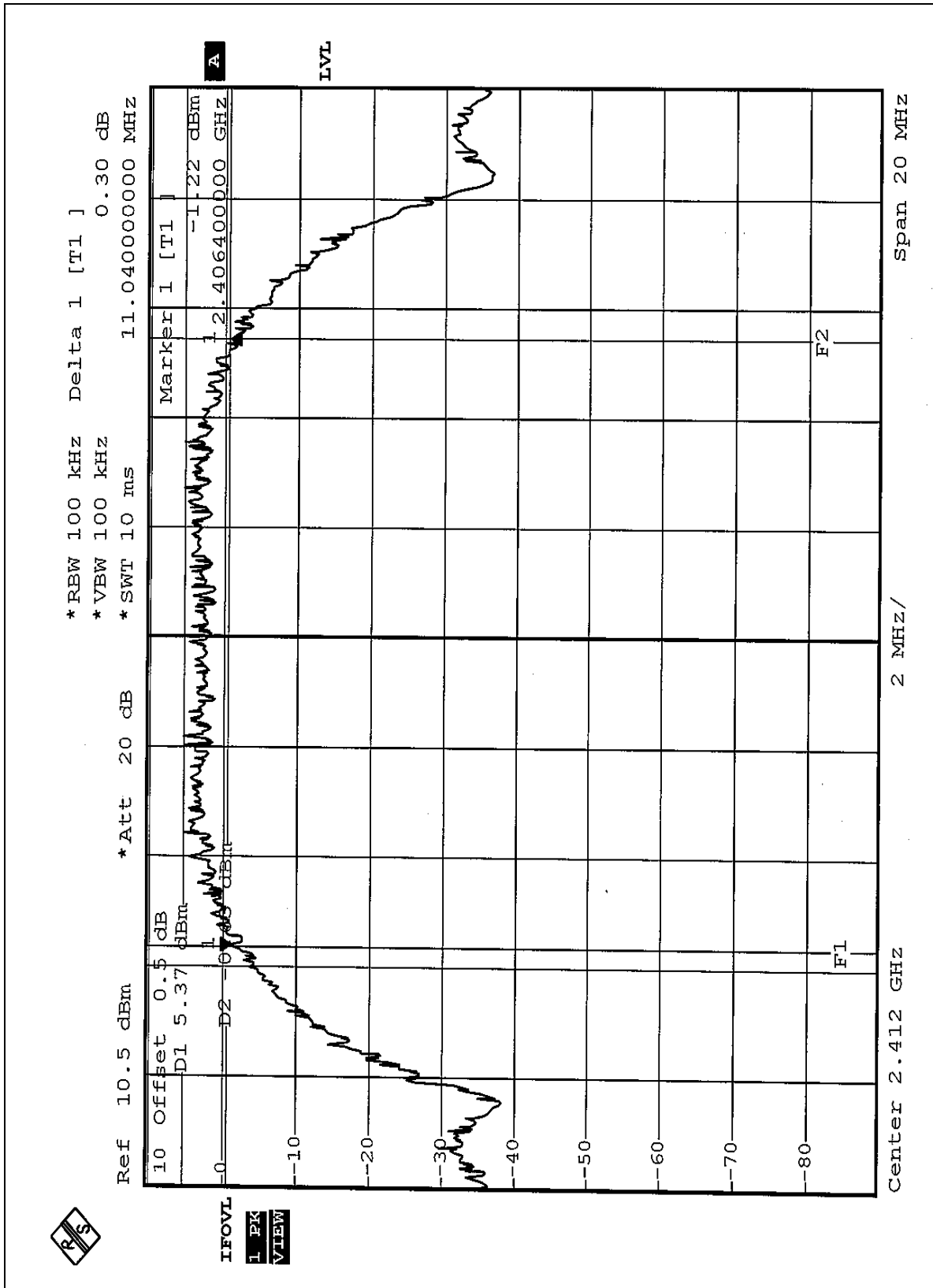
The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

4.3.7 TEST RESULTS (A)

EUT	802.11g Access Point	MODEL	WG602 v3
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	24 deg. C, 65% RH, 991 hPa
TESTED BY	Leo Hung		

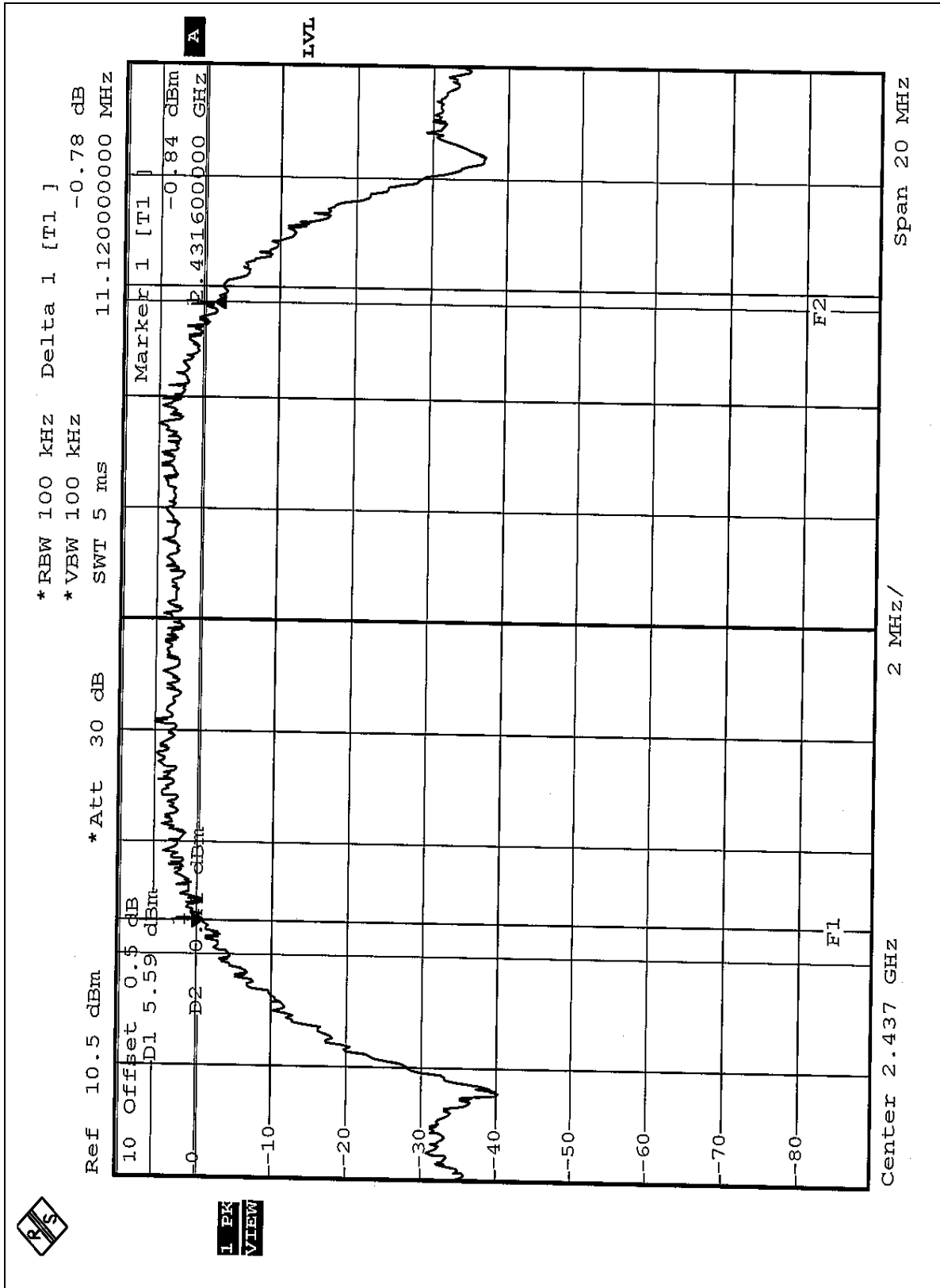
CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS/FAIL
1	2412	11.04	0.5	PASS
6	2437	11.12	0.5	PASS
11	2462	11.04	0.5	PASS

CH1

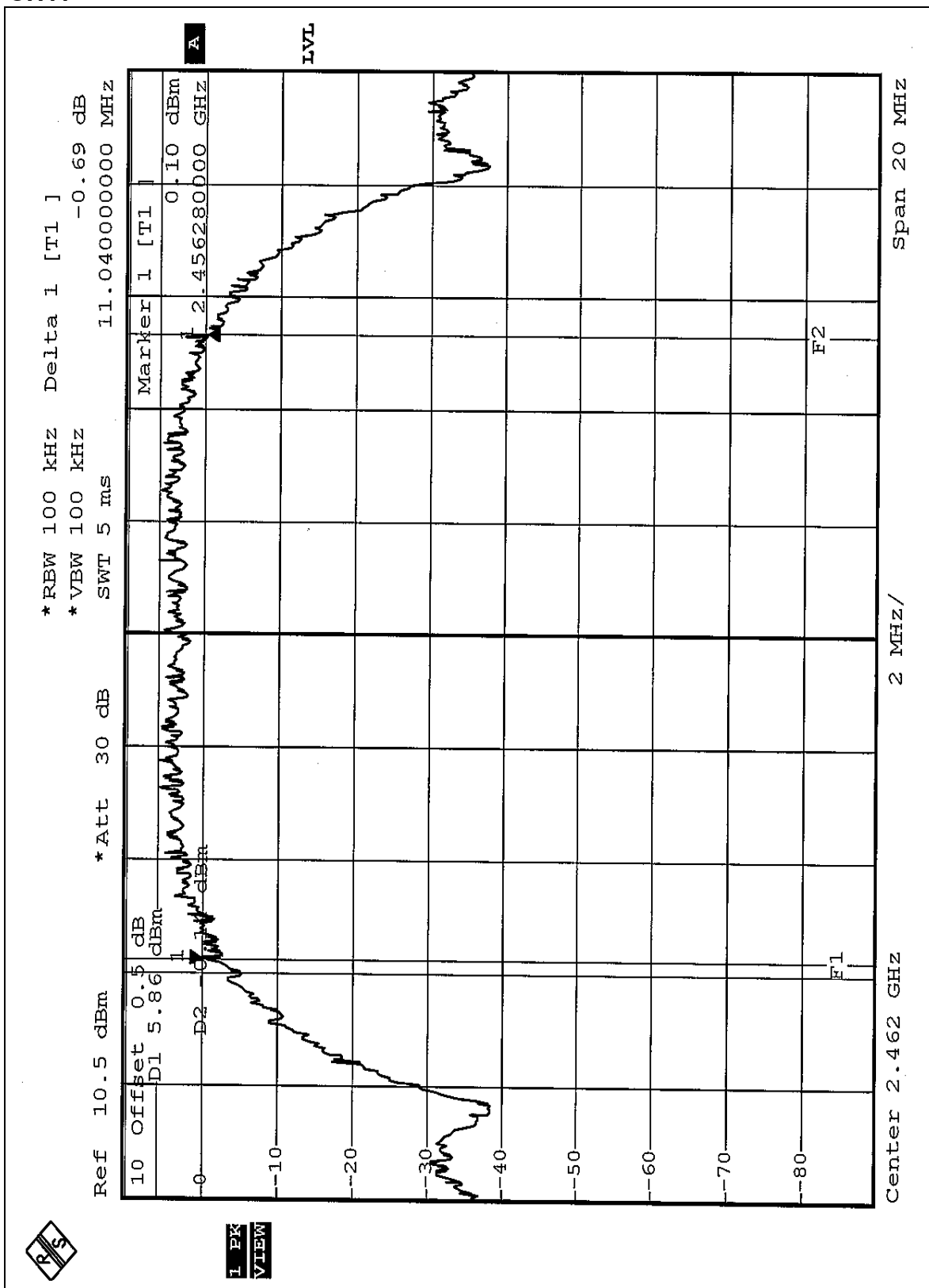




CH6



CH11

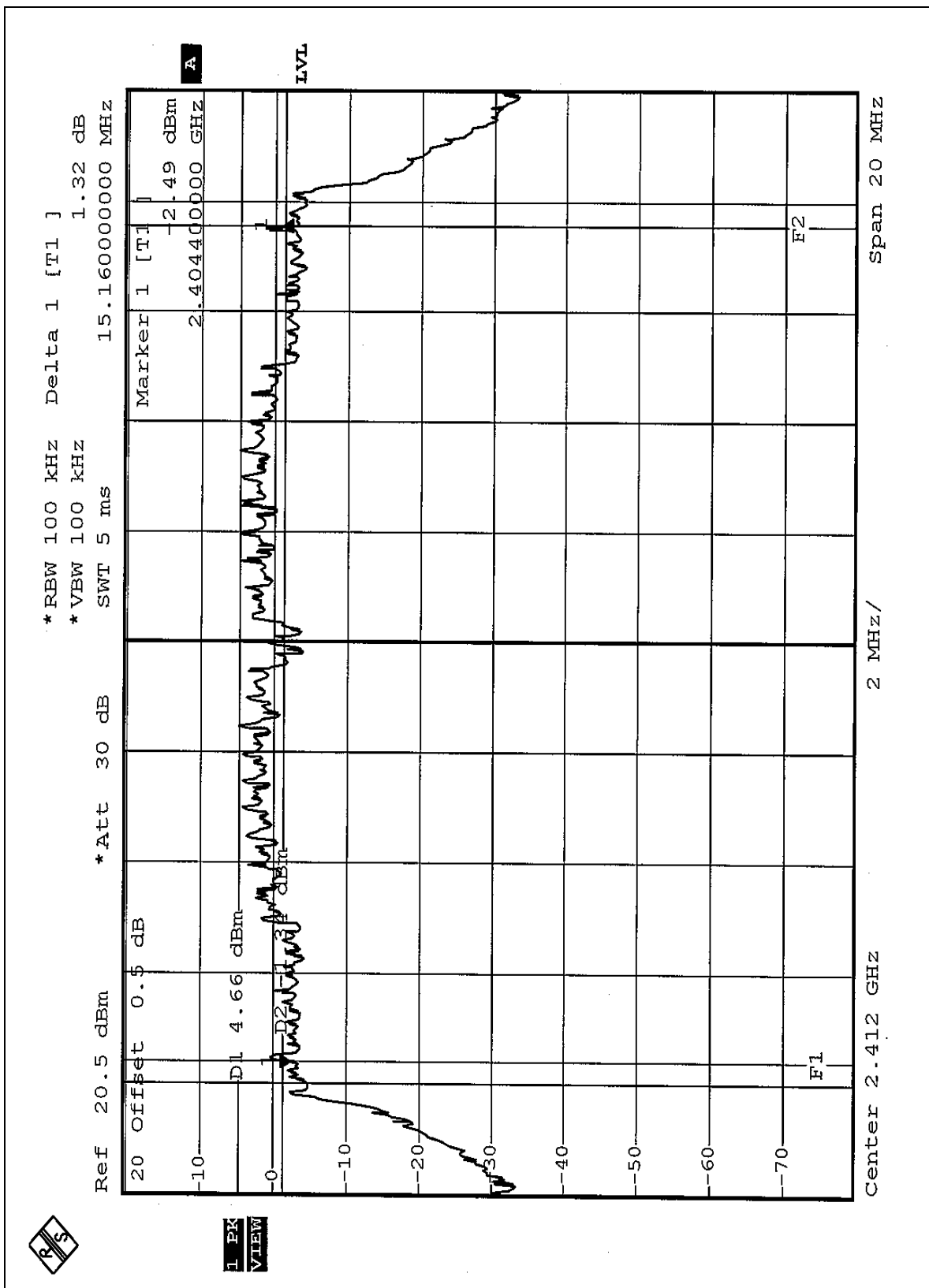


4.3.8 TEST RESULTS (B)

EUT	802.11g Access Point	MODEL	WG602 v3
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	24 deg. C, 65% RH, 991 hPa
TESTED BY	Leo Hung		

CHANNEL	CHANNEL FREQUENCY (MHz)	6 dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS/FAIL
1	2412	15.16	0.5	PASS
6	2437	16.40	0.5	PASS
11	2462	16.40	0.5	PASS

CH1



1 PK
VIEW

Ref 20.5 dBm *Att 30 dB *RBW 100 kHz Delta 1 [T1] -0.12 dB
20 Offset 0.5 dB *VBW 100 kHz SWT 5 ms 16.40000000 MHz

Marker 1 [T1] -3.81 dBm 2.42880000 GHz

D1 1.45 dBm

Center 2.437 GHz Span 20 MHz

The figure is a spectrum analyzer display. The horizontal axis represents frequency, with a center frequency of 2.462 GHz and a span of 20 MHz. The vertical axis represents power in dBm, ranging from -70 to 20. A signal trace is visible, showing a peak at the center frequency. The peak level is marked as -3.75 dBm. The plot includes a grid and various measurement parameters such as RBW (100 kHz), VBW (100 kHz), and Att (30 dB). The signal is identified as 'F1'.

Parameter	Value
Ref	20.5 dBm
Offset	0.5 dB
Att	30 dB
RBW	100 kHz
VBW	100 kHz
SWT	5 ms
Delta 1 [T1]	0.03 dB
Marker 1 [T1]	-3.75 dBm
Frequency	2.453800000 GHz

4.4 MAXIMUM PEAK OUTPUT POWER

4.4.1 LIMITS OF MAXIMUM PEAK OUTPUT POWER MEASUREMENT

The Maximum Peak Output Power Measurement is 30dBm.

4.4.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
R&S SPECTRUM ANALYZER	FSEK30	100049	Aug. 12, 2005
AGILENT SIGNAL GENERATOR	E8257C	MY43320668	Dec. 31, 2004
TEKTRONIX OSCILLOSCOPE	TDS 220	C019167	Feb. 1, 2005
NARDA DETECTOR	4503A	FSCM99899	NA

NOTE:

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

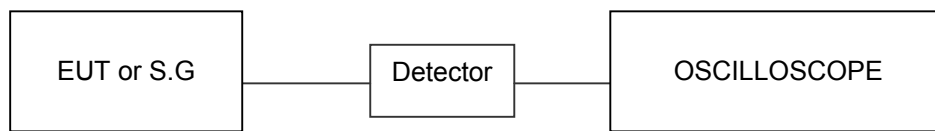
4.4.3 TEST PROCEDURES

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

4.4.4 DEVIATION FROM TEST STANDARD

No deviation

4.4.5 TEST SETUP



4.4.6 EUT OPERATING CONDITIONS

Same as Item 4.3.6

4.4.7 TEST RESULTS (A)

EUT	802.11g Access Point	MODEL	WG602 v3
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	24 deg. C, 65% RH, 991 hPa
TESTED BY	Leo Hung		

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
1	2412	17.51	30	PASS
6	2437	17.53	30	PASS
11	2462	17.52	30	PASS

4.4.8 TEST RESULTS (B)

EUT	802.11g Access Point	MODEL	WG602 v3
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	24 deg. C, 65% RH, 991 hPa
TESTED BY	Leo Hung		

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
1	2412	16.01	30	PASS
6	2437	16.02	30	PASS
11	2462	16.00	30	PASS



4.5 POWER SPECTRAL DENSITY MEASUREMENT

4.5.1 LIMITS OF POWER SPECTRAL DENSITY MEASUREMENT

The Maximum of Power Spectral Density Measurement is 8dBm.

4.5.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
SPECTRUM ANALYZER	FSEK30	100049	Aug. 12, 2005

NOTE:

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

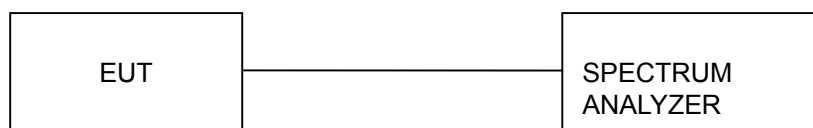
4.5.3 TEST PROCEDURE

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

4.5.4 DEVIATION FROM TEST STANDARD

No deviation

4.5.5 TEST SETUP



4.5.6 EUT OPERATING CONDITIONS

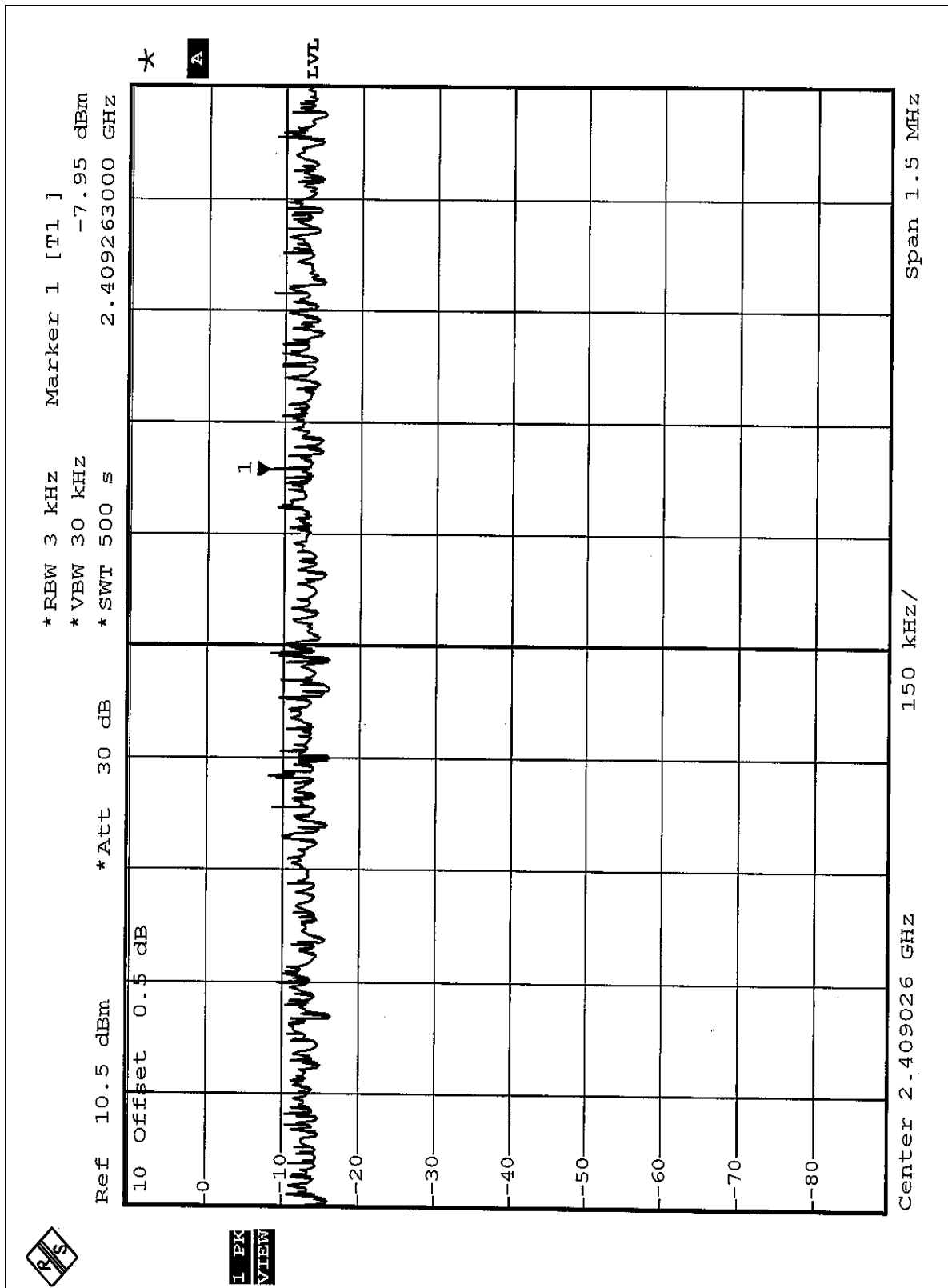
Same as 4.3.6

4.5.7 TEST RESULTS (A)

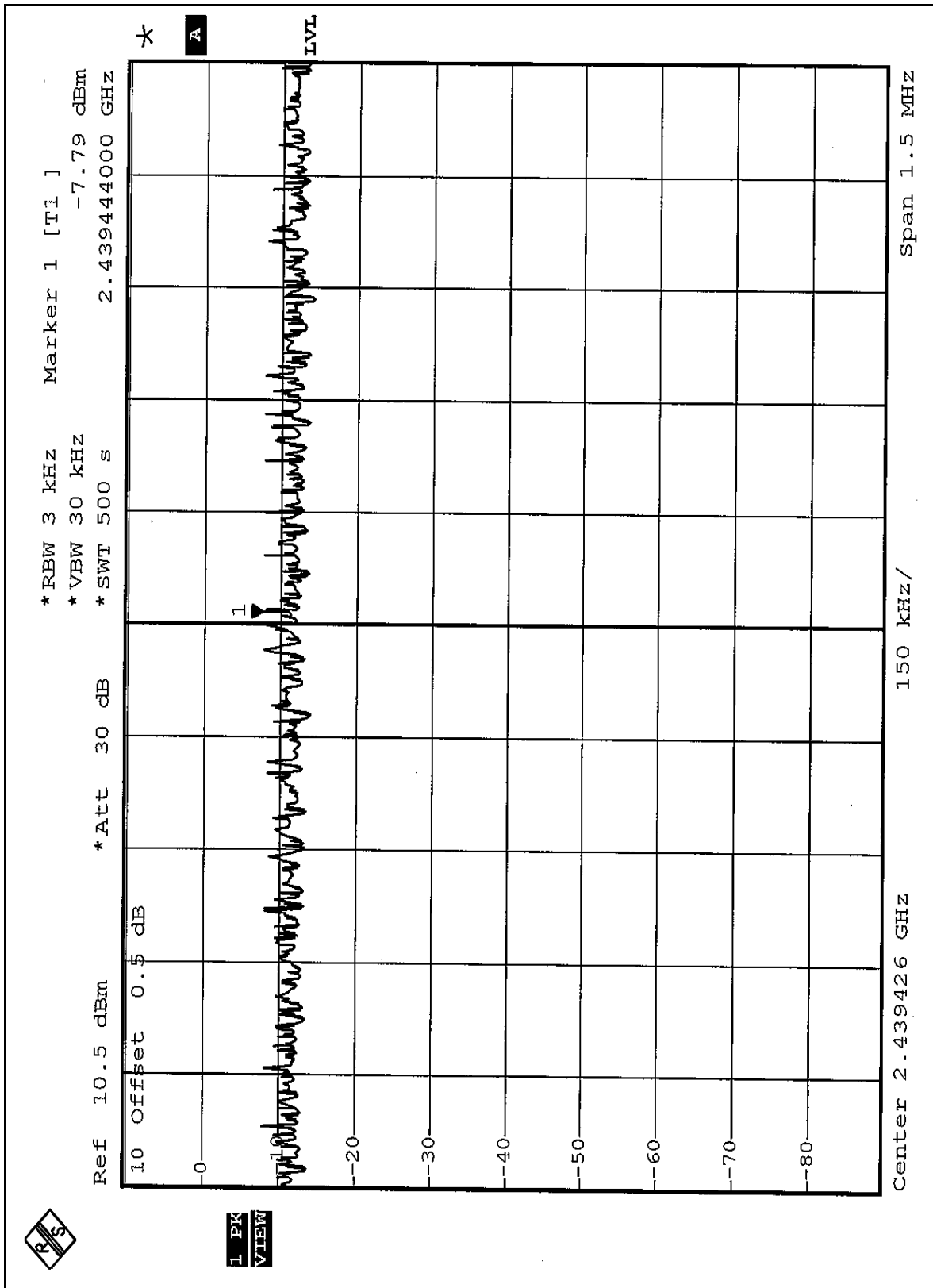
EUT	802.11g Access Point	MODEL	WG602 v3
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	24 deg. C, 65% RH, 991 hPa
TESTED BY	Leo Hung		

CHANNEL NUMBER	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3kHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	2412	-7.95	8	PASS
6	2437	-7.79	8	PASS
11	2462	-7.91	8	PASS

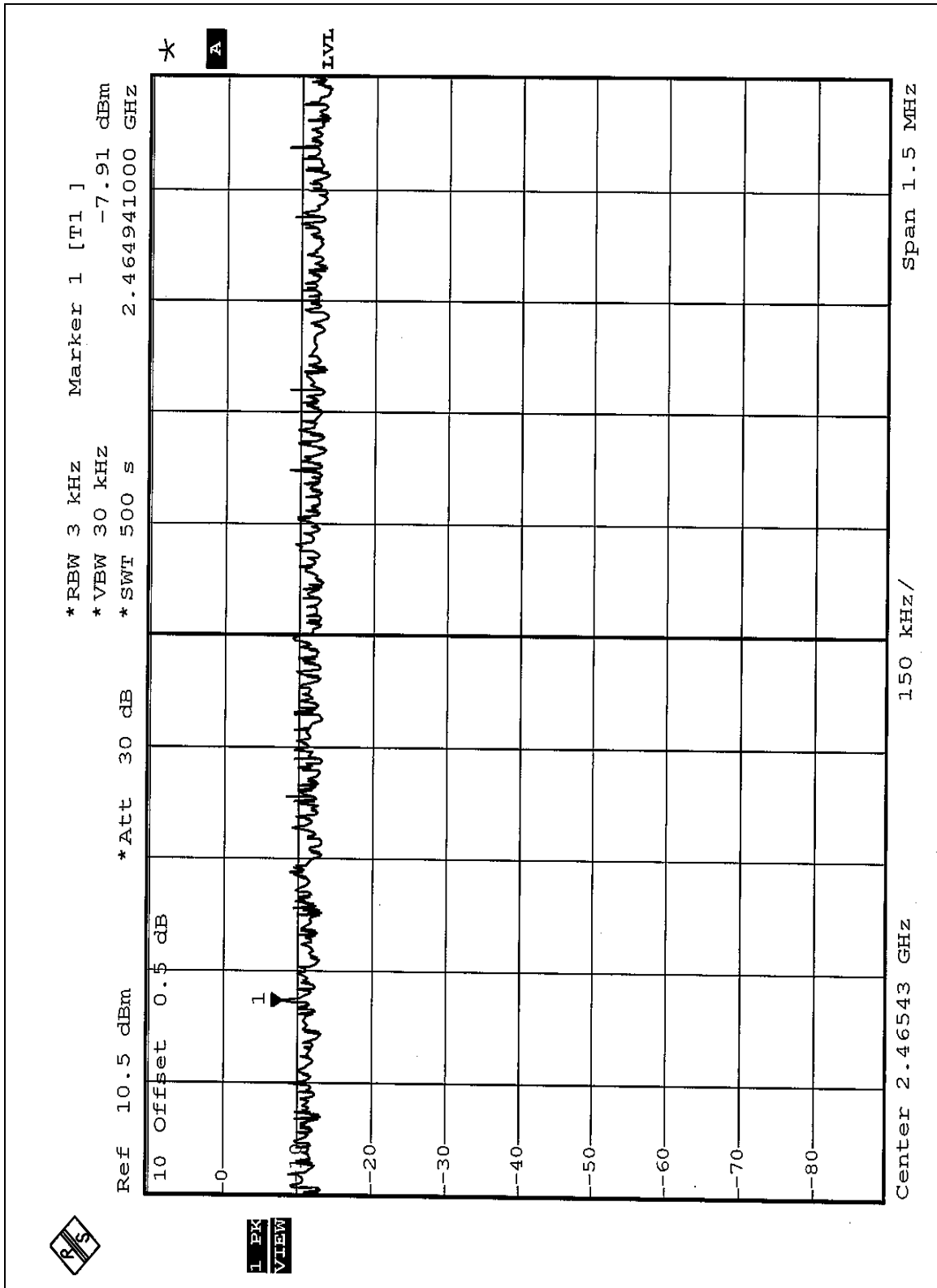
CH1



CH6



CH11



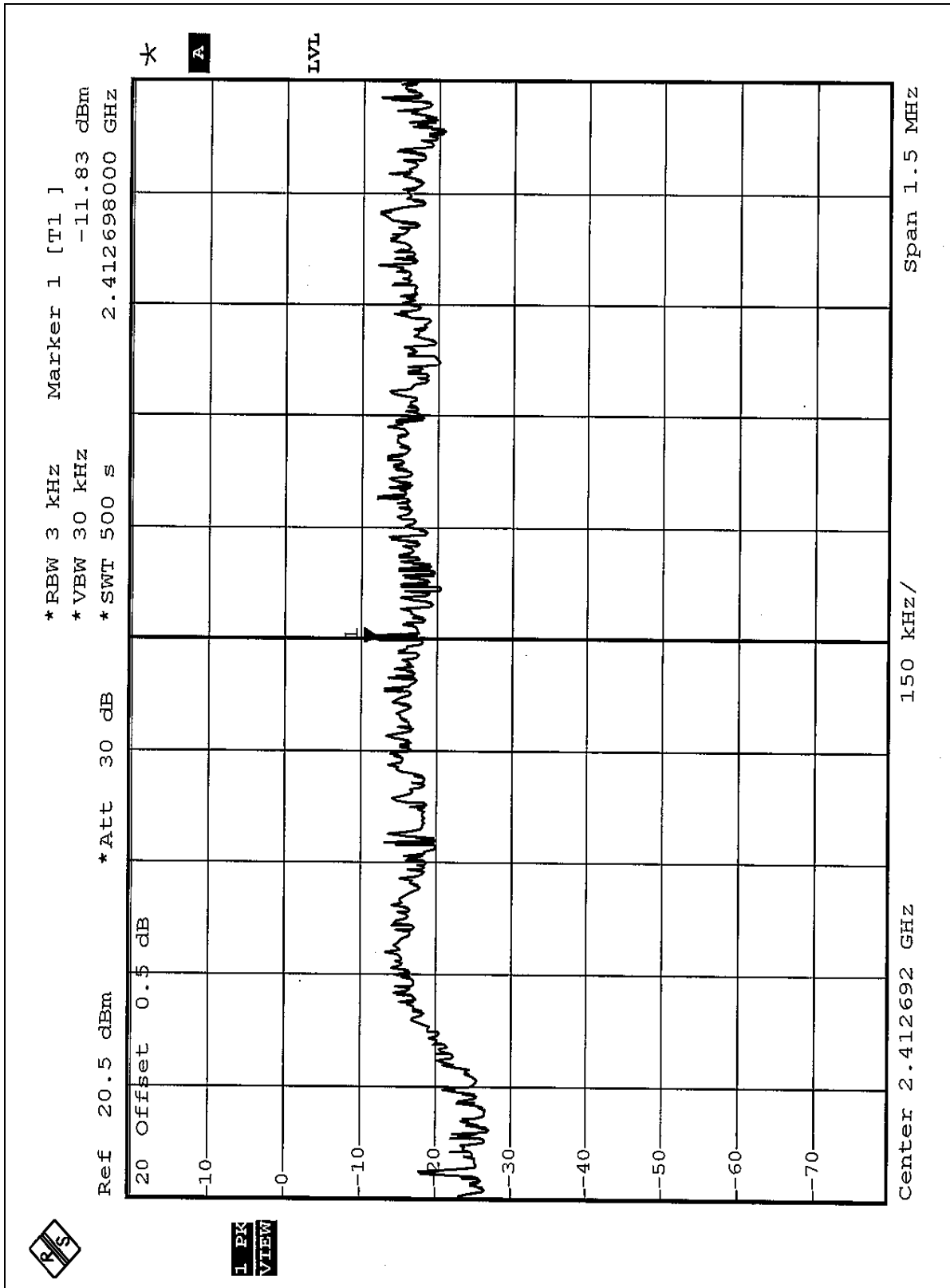
4.5.8 TEST RESULTS (B)

EUT	802.11g Access Point	MODEL	WG602 v3
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	24 deg. C, 65% RH, 991 hPa
TESTED BY	Leo Hung		

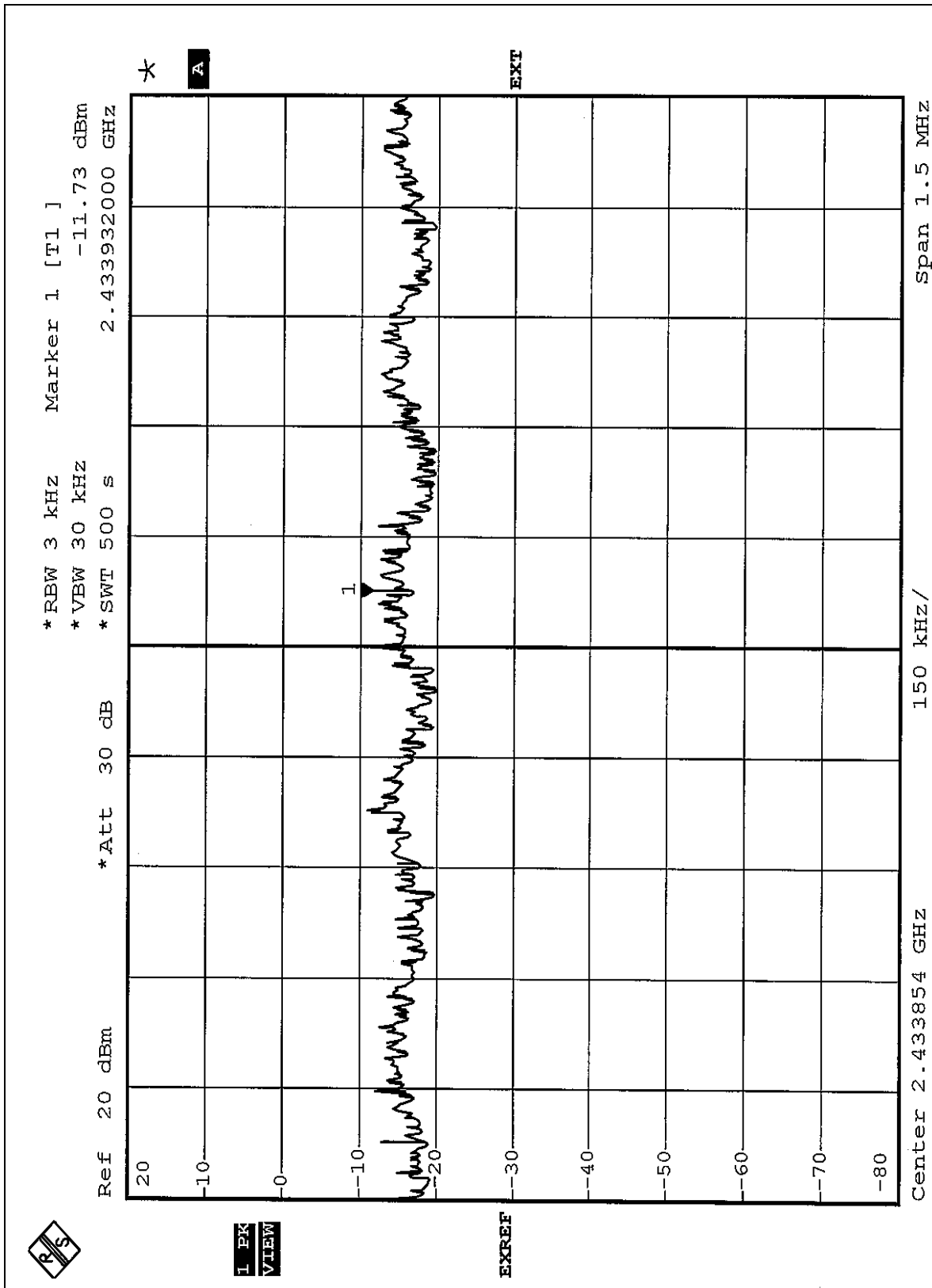
CHANNEL NUMBER	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3KHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	2412	-11.83	8	PASS
6	2437	-11.73	8	PASS
11	2462	-11.76	8	PASS



CH1



CH6



* RBW 3 kHz
 * VBW 30 kHz
 * SWT 500 s
 * Att 30 dB
 * Offset 0.5 dB
 Ref 20.5 dBm
 Marker 1 [T1]
 -11.76 dBm
 2.467001000 GHz

1 PK
 VIEW

Center 2.466332 GHz
 150 kHz/
 Span 1.5 MHz

4.6 BAND EDGES MEASUREMENT

4.6.1 LIMITS OF BAND EDGES MEASUREMENT

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

4.6.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
SPECTRUM ANALYZER	FSEK30	100049	Aug. 12, 2005

NOTE:

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

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

4.6.4 DEVIATION FROM TEST STANDARD

No deviation

4.6.5 EUT OPERATING CONDITION

Same as Item 4.3.6

4.6.6 TEST RESULTS

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

4.6.7 TEST RESULTS(A)

NOTE:

The band edge emission plot of CCK technique on the following 1~2 pages show 59.47dB delta between carrier maximum power and local maximum emission in restrict band (2.3880GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.8 is 105.98dBuV/m, so the maximum field strength in restrict band is $105.98 - 59.47 = 46.51$ dBuV/m which is under 54dBuV/m limit.

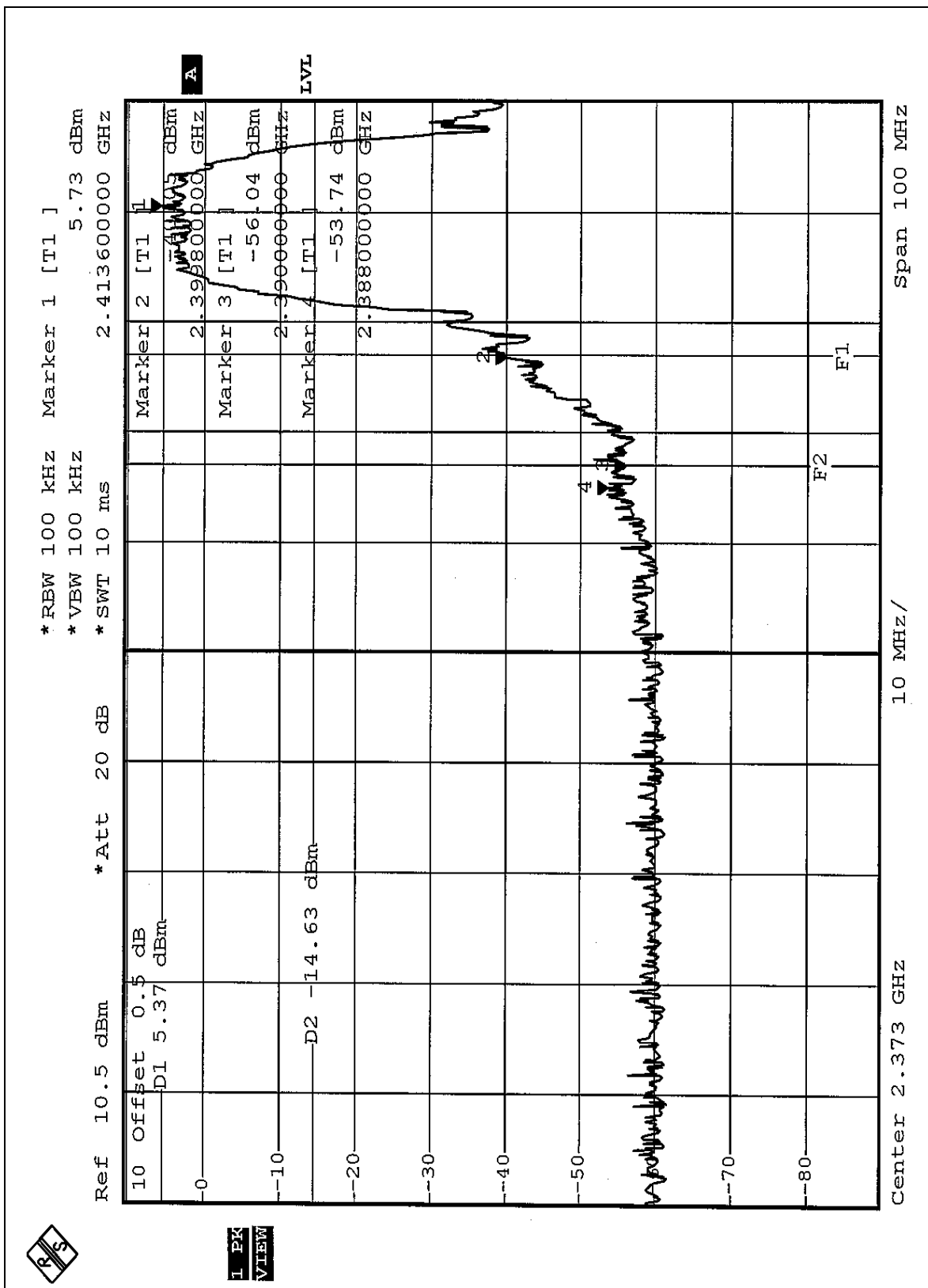
The band edge emission plot of CCK technique on the following 3~4 pages show 57.46dB delta between carrier maximum power and local maximum emission in restrict band (2.4847GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.8 is 106.43dBuV/m, so the maximum field strength in restrict band is $106.43 - 57.46 = 49.01$ dBuV/m which is under 54dBuV/m limit.

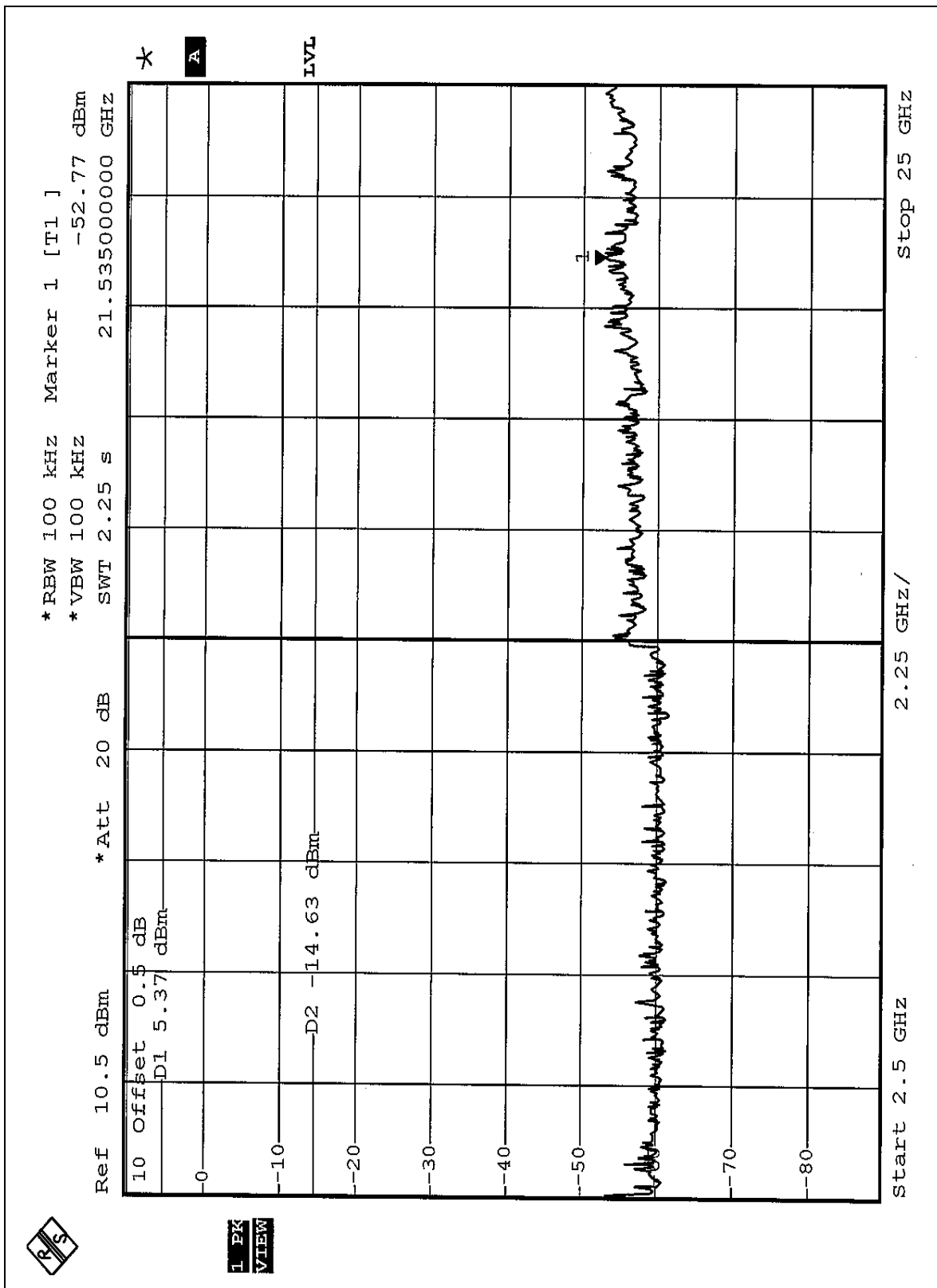
4.6.8 TEST RESULTS(B)

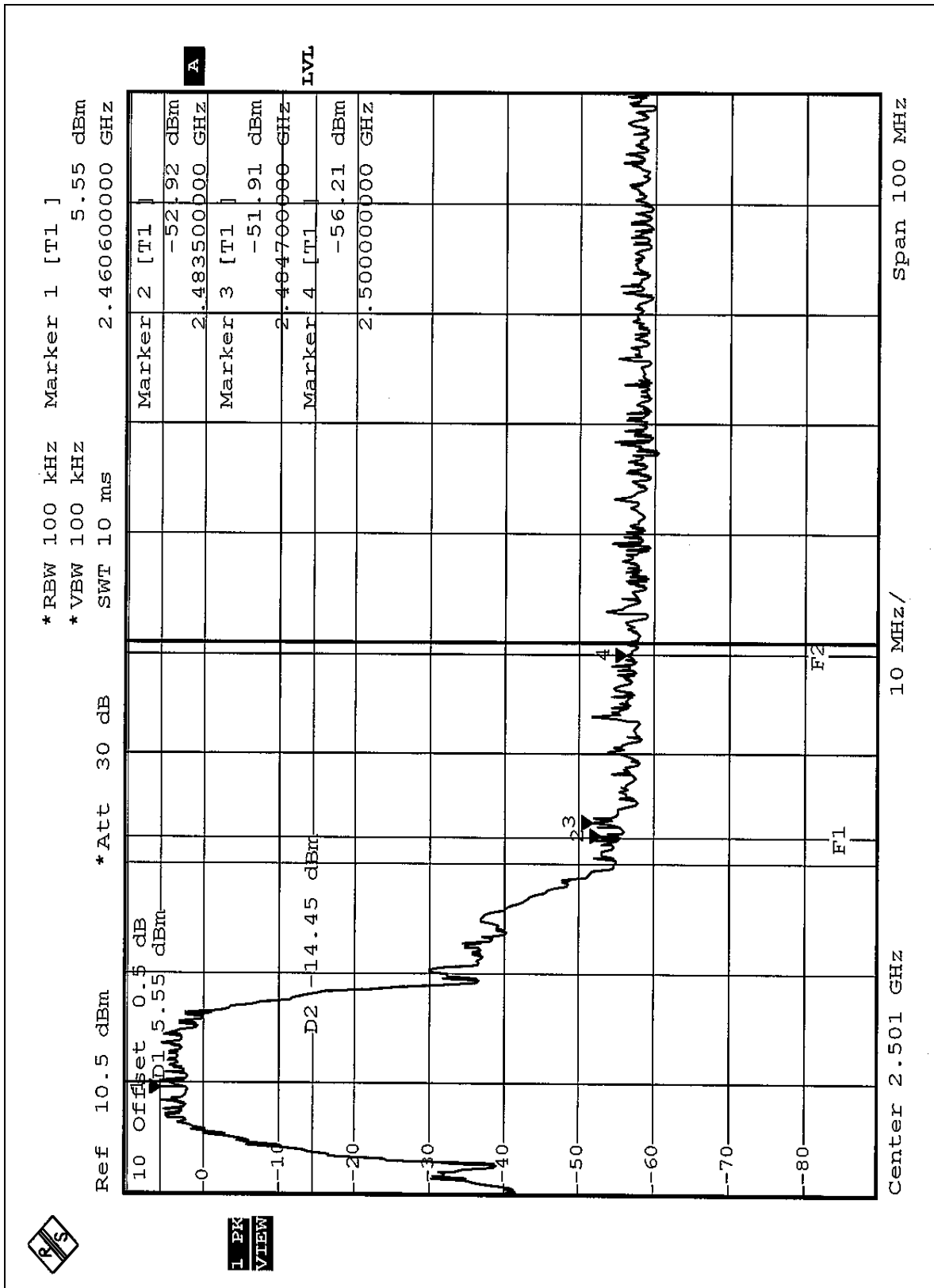
NOTE:

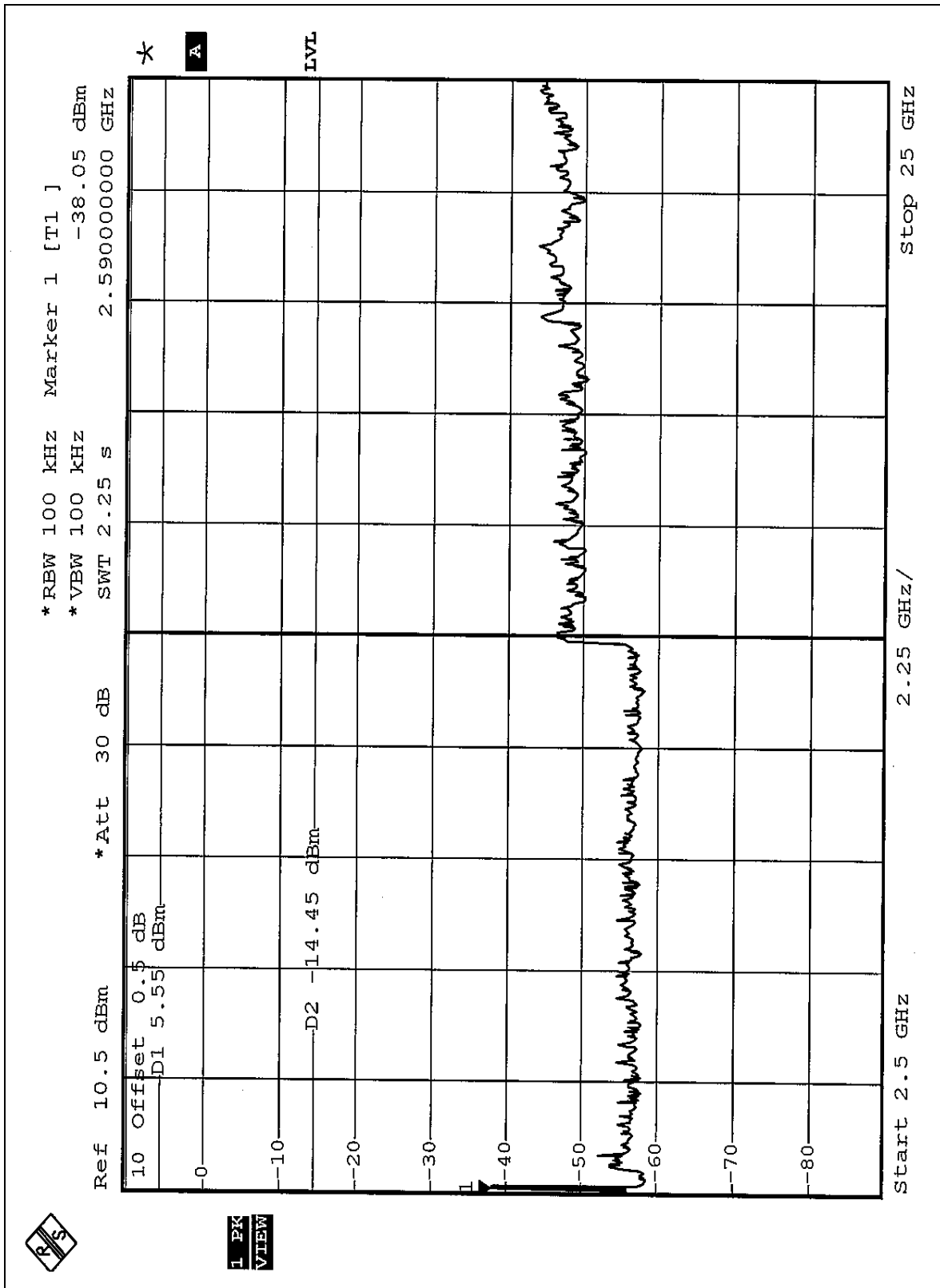
The band edge emission plot of OFDM technique on the following 5~6 pages show 50.46dB delta between carrier maximum power and local maximum emission in restrict band (2.3898GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.9 is 101.40dBuV/m, so the maximum field strength in restrict band is $101.40 - 50.46 = 50.94$ dBuV/m which is under 54dBuV/m limit.

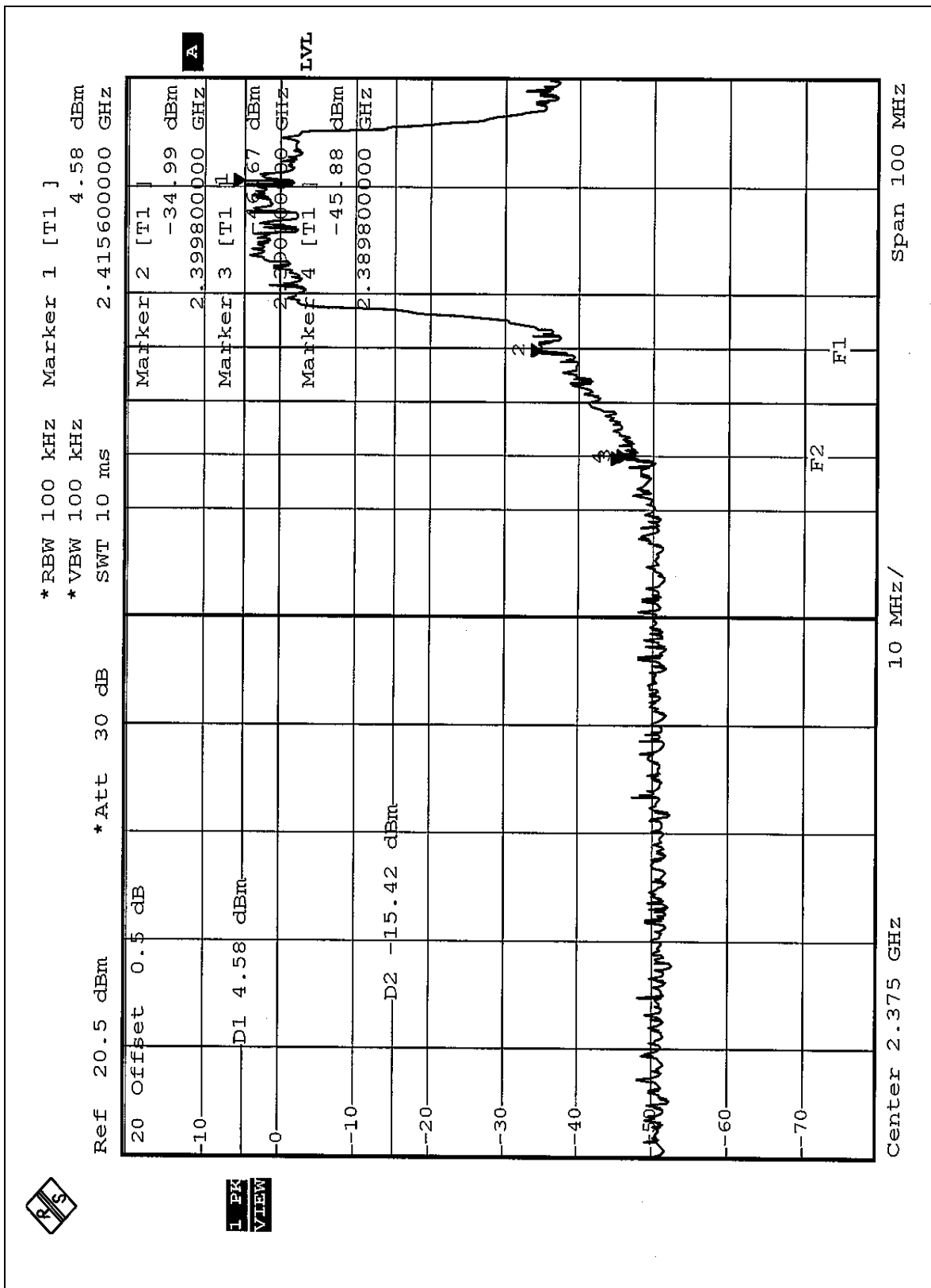
The band edge emission plot of OFDM technique on the following 7~8 pages show 46.94dB delta between carrier maximum power and local maximum emission in restrict band (2.4841GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.9 is 99.83dBuV/m, so the maximum field strength in restrict band is $99.83 - 46.94 = 52.89$ dBuV/m which is under 54dBuV/m limit.

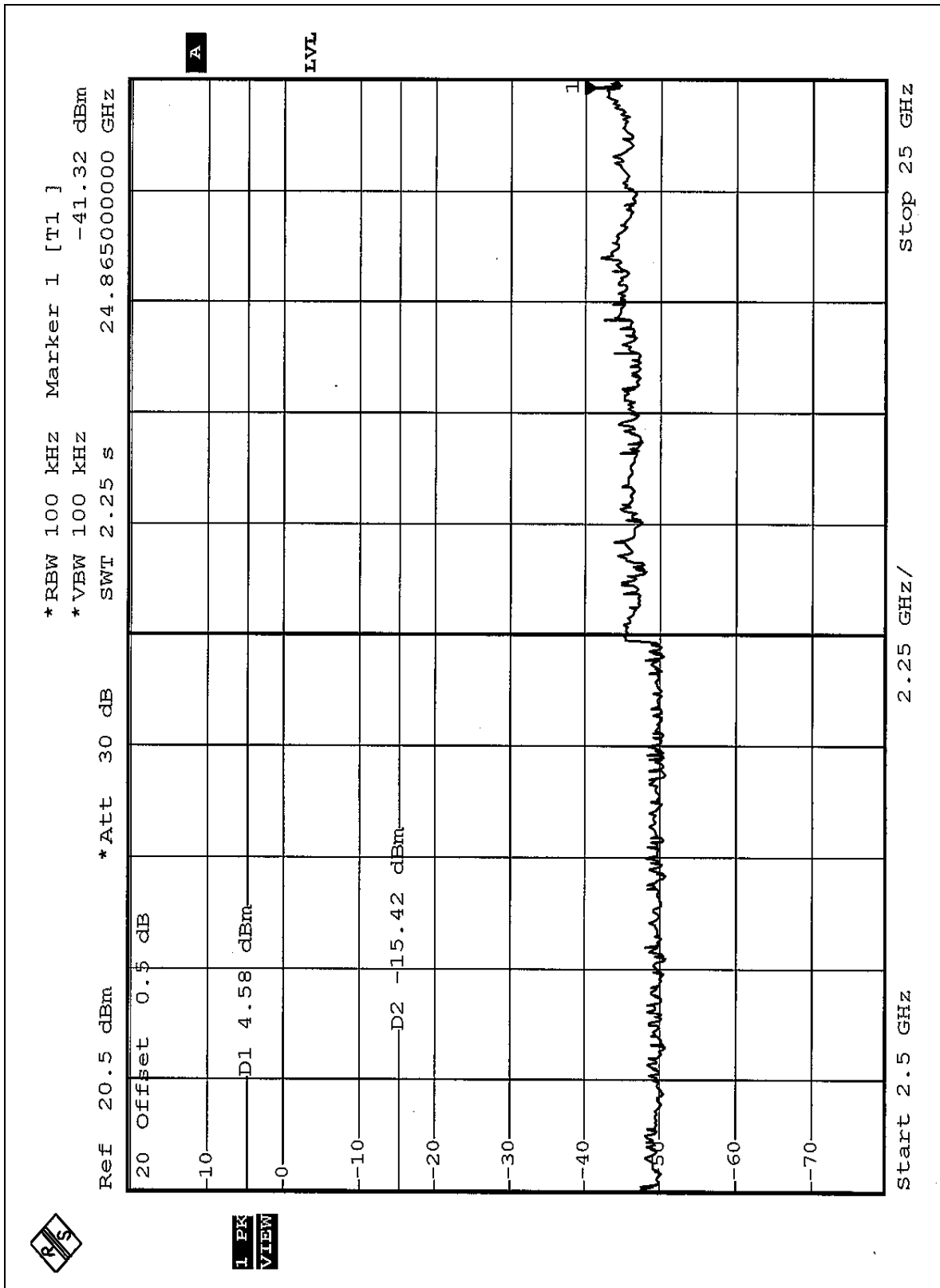




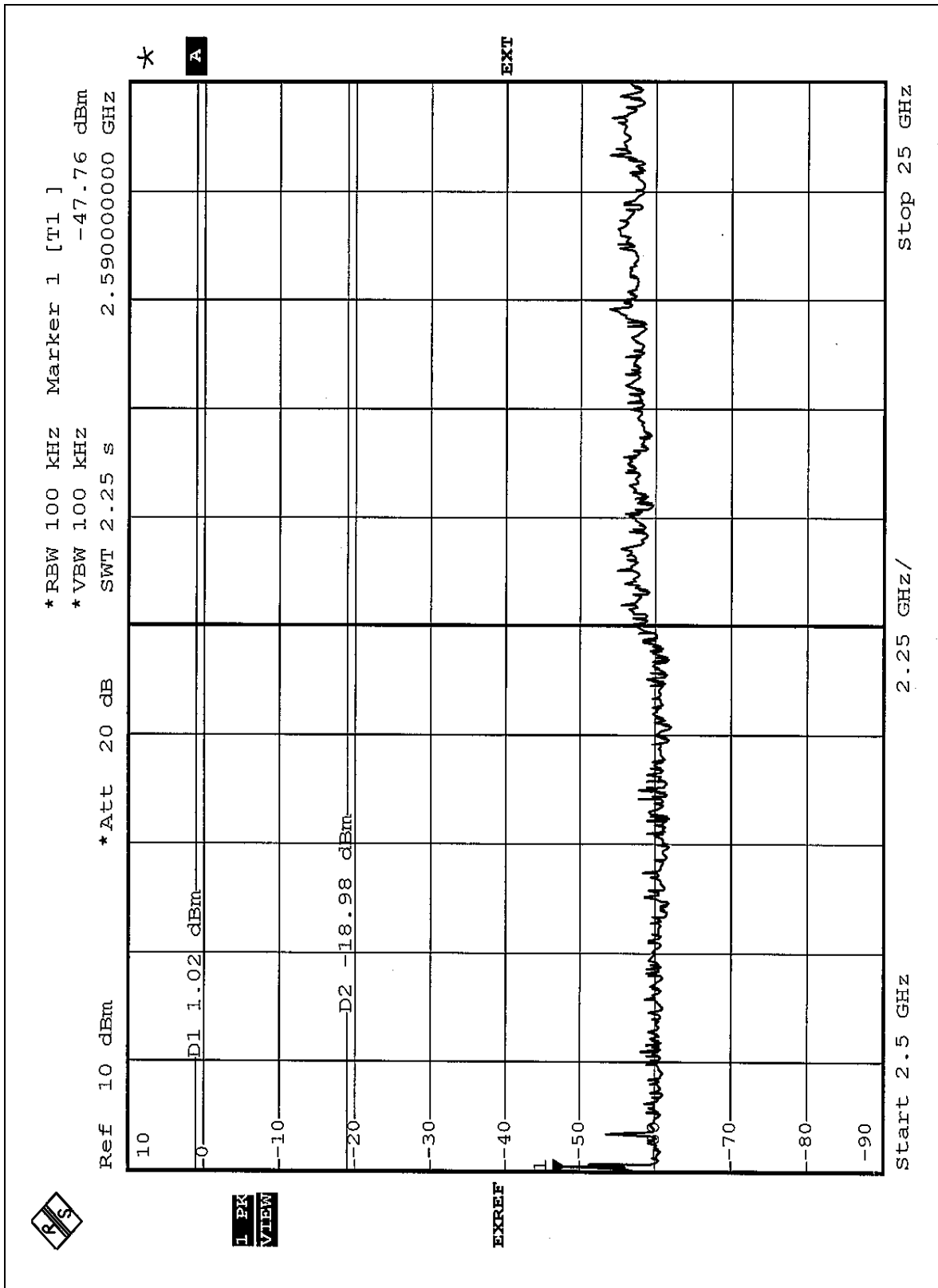














4.7 ANTENNA REQUIREMENT

4.7.1 STANDARD APPLICABLE

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

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

4.7.2 ANTENNA CONNECTED CONSTRUCTION

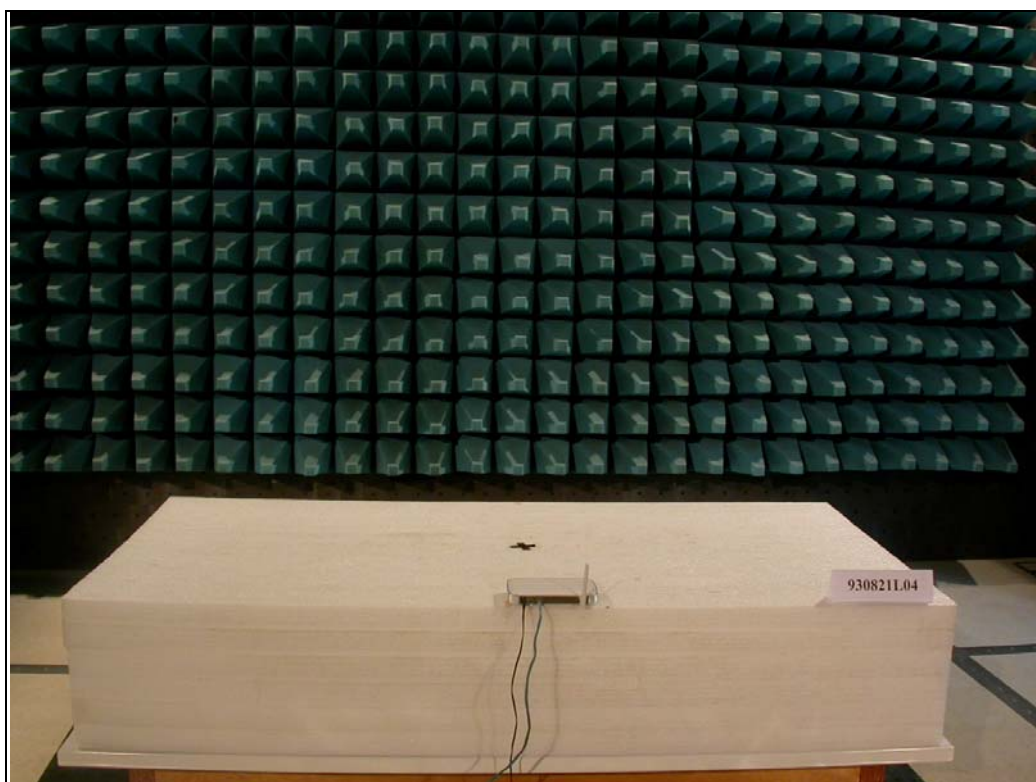
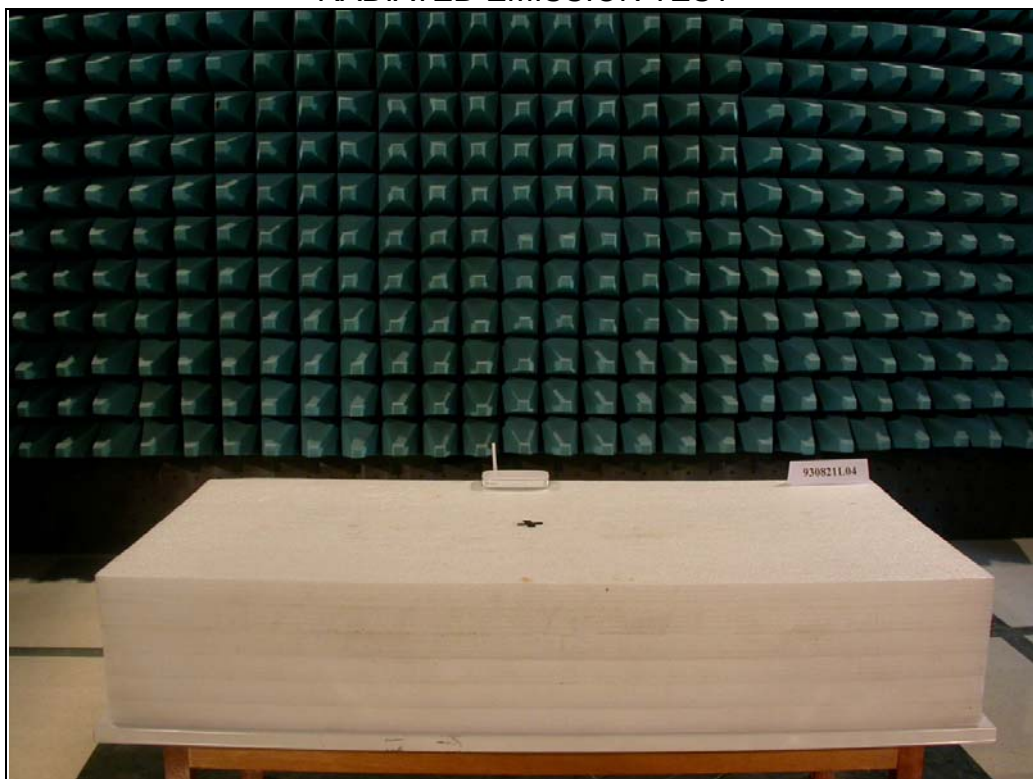
The antennas used in this product is Dipole antenna with Reverse SMA connector. And the maximum Gain of this antenna is 2.0dBi.

5 PHOTOGRAPHS OF THE TEST CONFIGURATION

CONDUCTED EMISSION TEST



RADIATED EMISSION TEST



6 INFORMATION ON THE TESTING LABORATORIES

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

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Copies of accreditation certificates of our laboratories obtained from approval agencies can be downloaded from our web site:

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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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