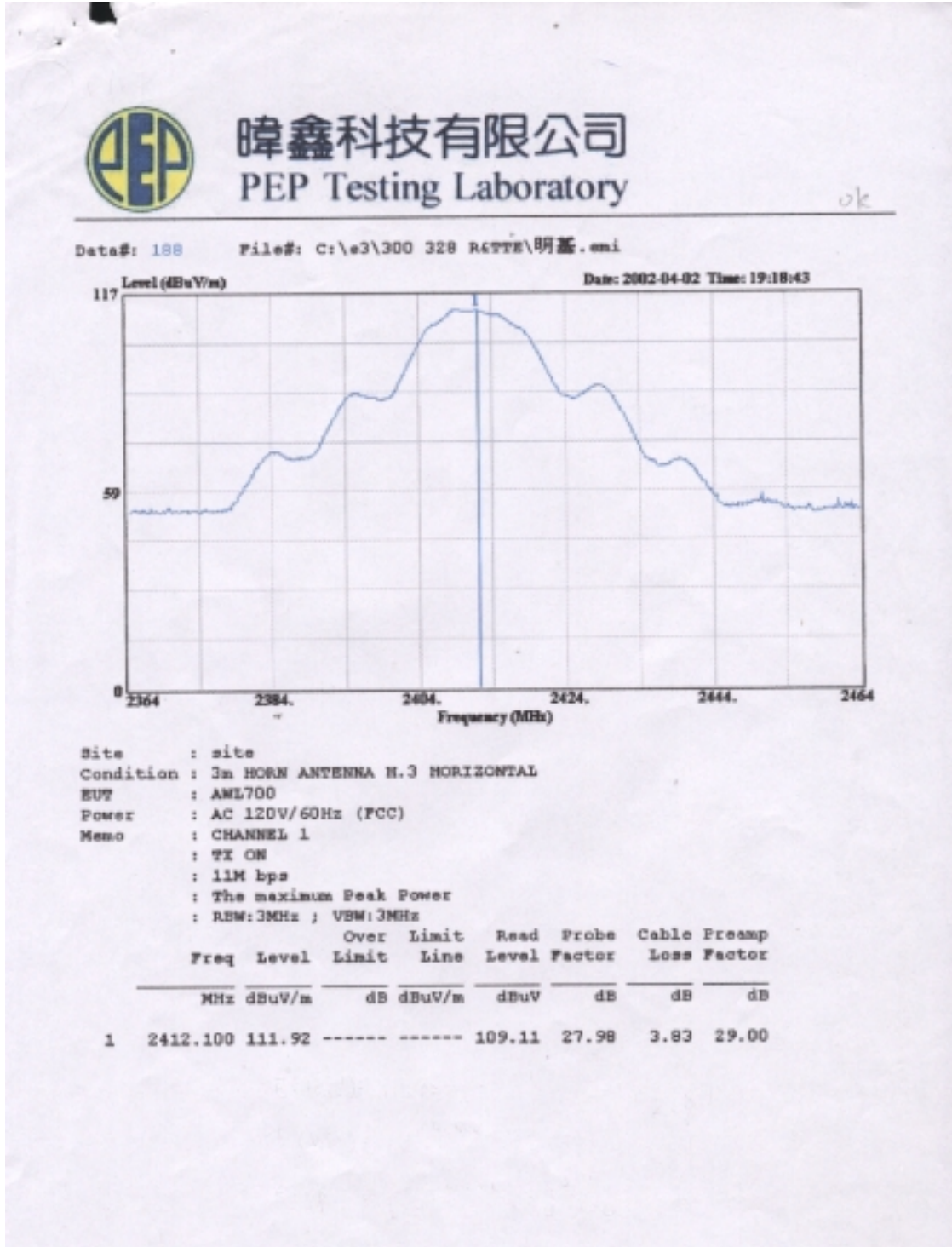


FCC ID : JVPWL700

EUT Model No. AWL700

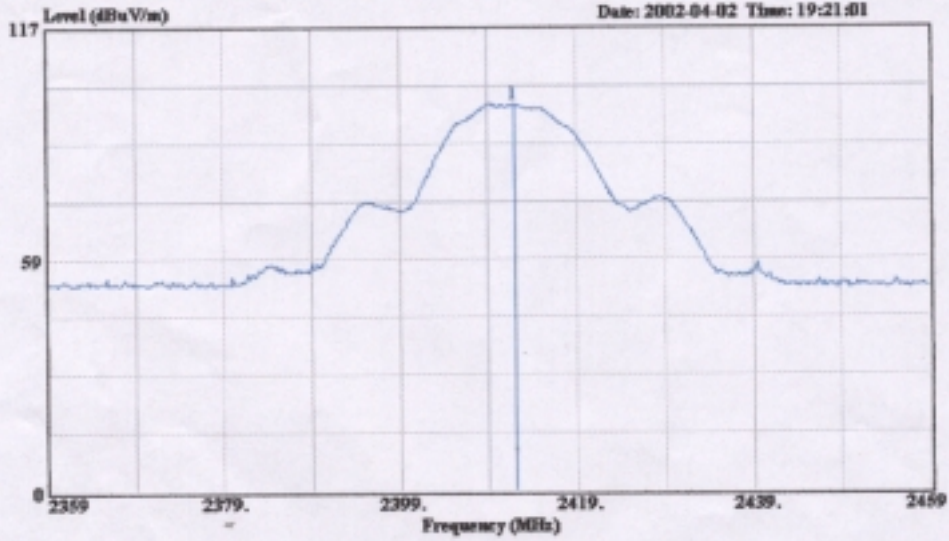




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PEP Testing Laboratory

Data#: 189 File#: C:\e3\300 328 RCTTE\明基.emi

Date: 2002-04-02 Time: 19:21:01



Site : site
 Condition : 3m HORN ANTENNA V.3 VERTICAL
 EUT : AML700
 Power : AC 120V/60Hz (PCC)
 Memo : CHANNEL 1
 : TX ON
 : 11M bps
 : The maximum Peak Power
 : RBW:3MHz ; VBW:3MHz

Freq	Level	Limit	Over Limit	Read	Probe	Cable	Preamp
MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB
1 2412.000	97.51	-----	-----	94.70	27.98	3.83	29.00

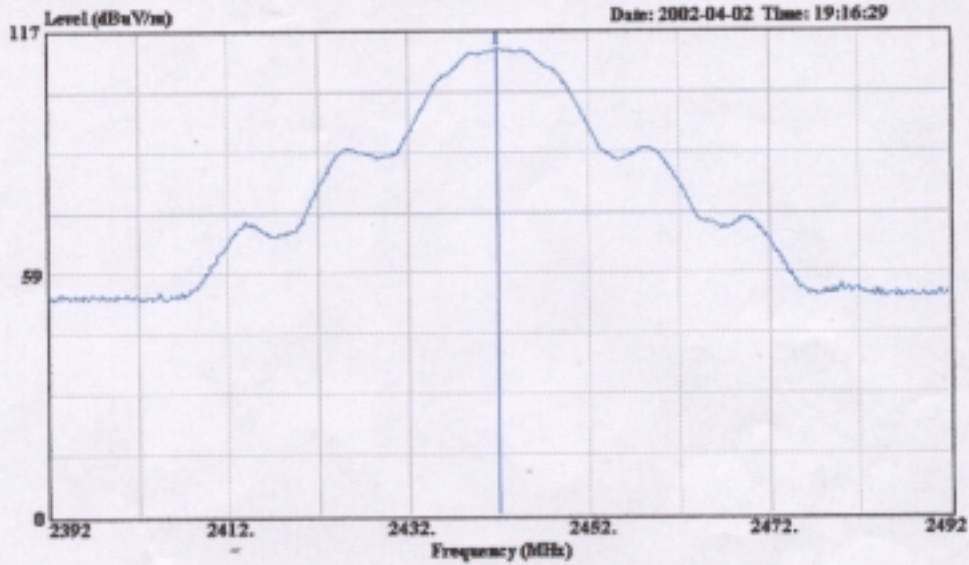


峰鑫科技有限公司
PEP Testing Laboratory

Data#: 187

File#: C:\e3\300 328 R&TTE\明基.emi

Date: 2002-04-02 Time: 19:16:29



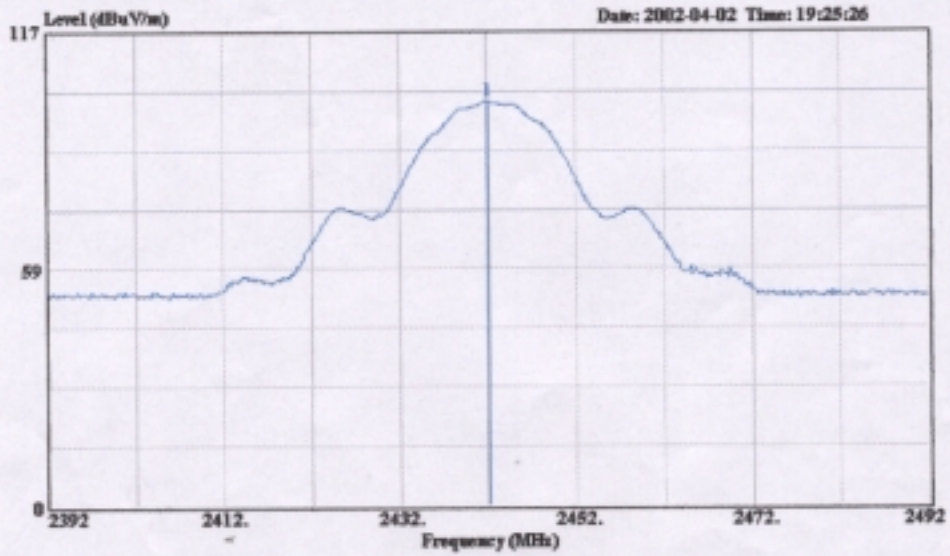
Site : site
Condition : 3m HORN ANTENNA H.3 HORIZONTAL
EUT : AWL700
Power : AC 120V/60Hz (PCC)
Memo : CHANNEL 6
: TX ON
: 11M bps
: The maximum Peak Power
: RBW:3MHz ; VBW:3MHz

1	Freq MHz	Level dBuV/m	Over Limit		Read Level dBuV	Probe Factor dB	Cable Loss dB	Preamp Factor dB
			Limit dB	Line dBuV/m				
	2438.200	112.71	-----	-----	109.90	27.95	3.86	29.00



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PEP Testing Laboratory

Data#: 190 File#: C:\e3\300 328 R4TTE\明基.emi



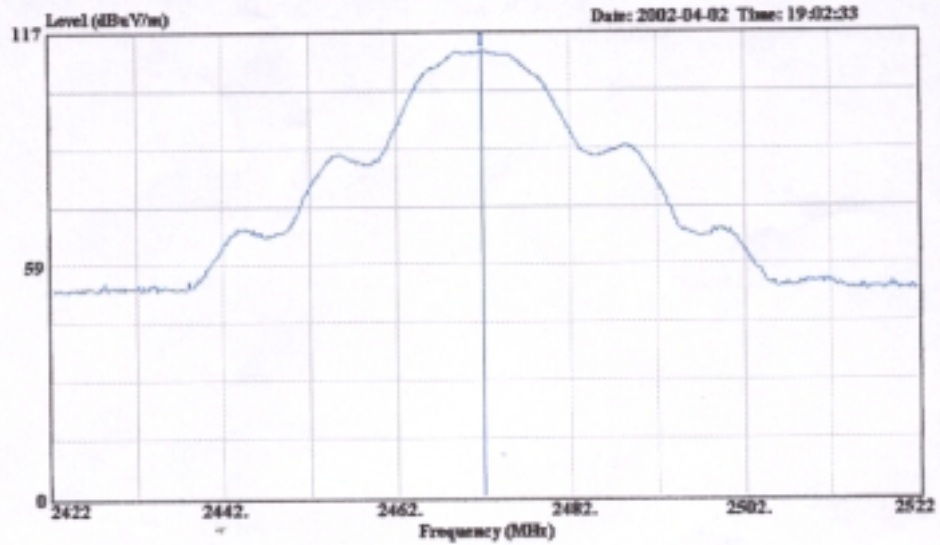
Site : site
 Condition : 3m HORN ANTENNA V.3 VERTICAL
 EUT : AML700
 Power : AC 120V/60Hz (PCC)
 Memo : CHANNEL 6
 : TX ON
 : 11M bps
 : The maximum Peak Power
 : RBW:3MHz ; VBW:3MHz

1	Freq MHz	Level dBuV/m	Over	Limit	Read	Probe	Cable	Preamp
			Limit	Line	Level	Factor	Loss	Factor
		dB	dBuV/m	dBuV	dB	dB	dB	dB
1	2438.200	99.82	-----	-----	97.01	27.95	3.86	29.00



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PEP Testing Laboratory

Data#: 186 File#: C:\e3\300 328 R&TTE\明基.emi



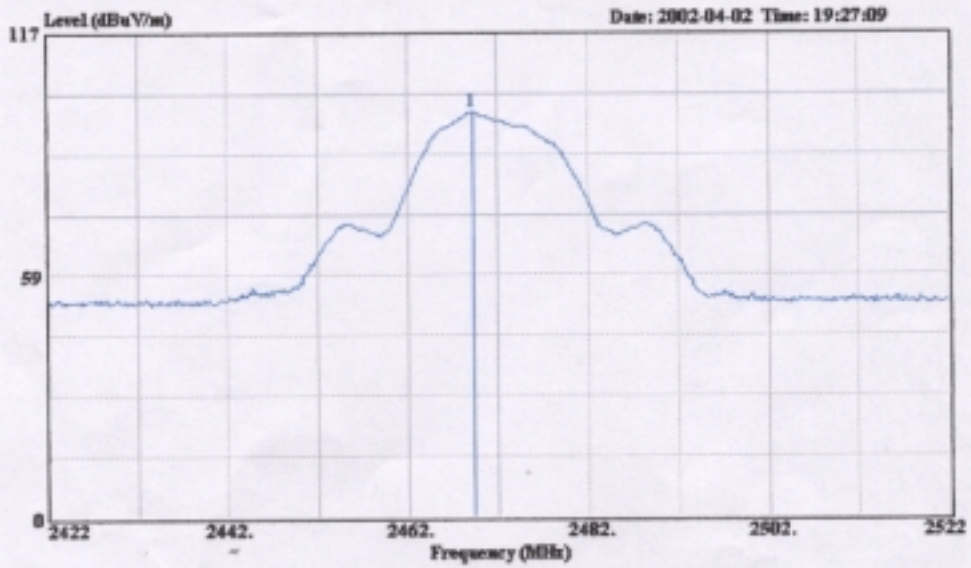
Site : site
 Condition : 3m HORN ANTENNA H.3 HORIZONTAL
 EUT : AWL700
 Power : AC 120V/60Hz (FCC)
 Memo : CHANNEL 11
 : TX ON
 : 11M bps
 : The maximum Peak Power
 : RBW:3MHz ; VBW:3MHz

Over	Limit	Read	Probe	Cable	Preamp
Limit	Line	Level	Factor	Loss	Factor
dB	dB	dBuV	dB	dB	dB
-----	-----	109.47	27.92	3.88	29.00



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PEP Testing Laboratory

Data#: 191 File#: C:\e3\300 328 R477E\明基.emi



Site : site
Condition : 3m NORM ANTENNA V.3 VERTICAL
SUT : AWL700
Power : AC 120V/60Hz (FCC)
Memo : CHANNEL 11

: TX ON
: 11M bps
: The maximum Peak Power
: RBW:3MHz ; VBW:3MHz

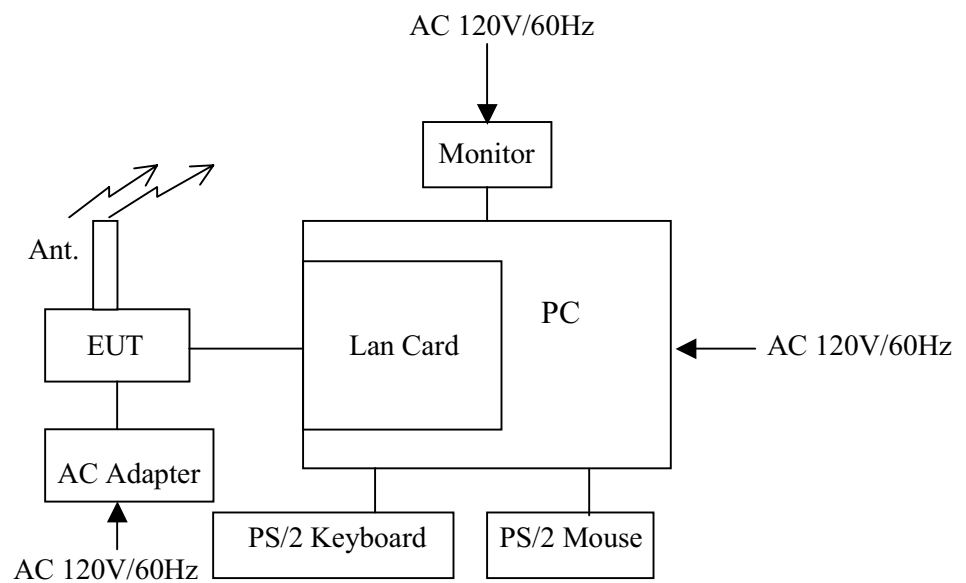
1	Freq MHz	Level dBuV/m	Over	Limit	Read	Probe	Cable	Preamp
			Limit	Line	Level	Factor	Loss	Factor
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB
1	2463.400	97.90	-----	-----	95.10	27.92	3.88	29.00

V. § 15.247(b)(4) Maximum Permissible Exposure (MPE)

5.1 MPE distance calculation

$$d = \frac{\sqrt{30G \text{ EIRP}}}{E}$$

5.2 Device operating configurations exposure conditions



5.3 Maximum Permissible Exposure (MPE)

FCC ID : JVPAWL700
EUT Model No. AWL700

channel	Frequency (MHz)	A.P.	S.P. Read	C.F.	Level	Power density at 20cm
		(H/V)	(dBuV/m)	(dB)	(dBuV/m)	(m W / cm ²)
Top	2412.1	H	109.11	2.81	111.92	0.2704
		V	94.70	2.81	97.51	0.0075
Middle	2438.2	H	109.90	2.81	112.71	0.2488
		V	97.01	2.81	99.82	0.0128
Bottom	2463.4	H	109.47	2.80	112.27	0.2248
		V	95.10	2.80	97.90	0.0082

Note :

7. "A.P." means antenna polarity .
8. "S.P." Read means amplitude read by spectrum analyzer .
9. "C.F." means corrected factor = antenna factor + cable loss
Preamplifier Gain .
10. Level means emission amplitude = S.P. + C.F. + duty cycle factor
11. Conducted output power : $P = (E d)^2 / 30G$
where E (V) = Level (V)
d (m) = distance = 20 cm
G = 1 (the gain of the transmitting antenna over isotropic
antenna)

$$P = E.I.R.P.$$

12. Example :

$$\text{If Level} = 120 \text{ dBuV/m}$$

$$10^{(120/20)} \times 10^{-6} = 1 \text{ V}$$

$$E.I.R.P. = (1 \times 3)^2 / 30 = 300 \text{ mW}$$

VI § 15.247(c) : Out side band below 1GHz

Test result of radiated emissions

FCC ID : JVPAWL700

RADIATED EMISSIONS TEST DATA

Antenna polarization : HORIZONTAL ; Test distance : 3 m ;

Freq. (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Probe Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)
125.000	31.33	-12.17	43.50	38.10	11.53	1.30	19.60
150.000	35.39	- 8.11	43.50	43.99	9.70	1.60	19.90
250.000	36.26	- 9.74	46.00	40.26	12.70	2.90	19.60
375.000	41.43	- 4.57	46.00	43.22	14.40	3.71	19.90
650.000	41.66	- 4.34	46.00	35.95	19.20	6.61	20.10
700.000	40.94	- 5.06	46.00	34.28	19.20	7.45	19.99
800.001	39.09	- 6.91	46.00	32.23	20.30	6.35	19.79

Note :

1. Level = Read Level + Probe Factor + Cable Loss – Preamp Factor
2. Over Limit = Level – Limit Line
3. All the other frequencies are under the limits more than 20dB

RADIATED EMISSIONS TEST DATA**Antenna polarization : VERTICAL ; Test distance : 3 m ;**

Freq. (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Probe Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)
71.696	36.36	- 3.64	40.00	50.22	5.44	0.83	20.13
125.000	41.83	- 1.67	43.50	48.60	11.53	1.30	19.60
150.000	30.44	-13.06	43.50	39.04	9.70	1.60	19.90
200.000	38.36	- 5.14	43.50	47.06	9.20	2.10	20.00
375.000	42.52	- 3.48	46.00	44.31	14.40	3.71	19.90
625.000	37.57	- 8.43	46.00	32.05	19.10	6.13	19.71
800.000	40.09	- 5.91	46.00	33.23	20.30	6.35	19.79
825.000	38.87	- 7.13	46.00	31.11	20.40	6.96	19.60

Note :

1. Level = Read Level + Probe Factor + Cable Loss – Preamp Factor
2. Over Limit = Level – Limit Line
3. All the other frequencies are under the limits more than 20dB

§ 15.247(c)

Channel 1 : 2412MHz

Frequency (MHz)	PEAK LEVEL in 100KHz BW (dBuV/m)	AVG LEVEL in 1MHz BW(dBuV/m)	Antenna Polarity (H/V)	15.209 (a) Limit (dBuV/m)	15.247 (c) Limit (dBuV/m)
2412.0	110.21	/	H	/	/
	99.63	/	V	/	/
2037.73	55.28	53.21	H	54	90.21
	54.16	52.15	V	54	79.63
* 4075.44	46.72	45.15	H	54	90.21
	49.31	48.14	V	54	79.63
* 4824.0	53.12	52.51	H	54	90.21
	53.78	53.25	V	54	79.63
6113.18	42.15	41.33	H	54	90.21
	39.25	37.16	V	54	79.63
7227.8	51.65	50.00	H	54	90.21
	54.33	53.80	V	54	79.63
* 8150.92	51.33	49.28	H	54	90.21
	50.14	48.56	V	54	79.63

* Use FCC Limit @ 15.209 for frequency in restricted bands.

Channel 6 : 2438.2MHz

Frequency (MHz)	PEAK LEVEL in 100KHz BW (dBuV/m)	AVG LEVEL in 1MHz BW(dBuV/m)	Antenna Polarity (H/V)	15.209 (a) Limit (dBuV/m)	15.247 (b) Limit (dBuV/m)
2438.2	110.45	/	H	/	/
	98.56	/	V	/	/
2062.72	53.25	52.78	H	54	89.87
	54.16	53.37	V	54	78.48
* 4149.46	39.88	38.90	H	54	89.87
	43.94	42.66	V	54	78.48
* 4876.4	52.14	51.70	H	54	89.87
	52.07	51.05	V	54	78.48
6188.18	38.97	35.06	H	54	89.87
	37.97	34.87	V	54	78.48
* 7314.6	50.99	49.41	H	54	89.87
	45.93	45.30	V	54	78.48
* 8250.92	46.83	46.11	H	54	89.87
	47.76	45.50	V	54	78.48

* Use FCC Limit @ 15.209 for frequency in restricted bands.

Channel 11 : 2463.4MHz

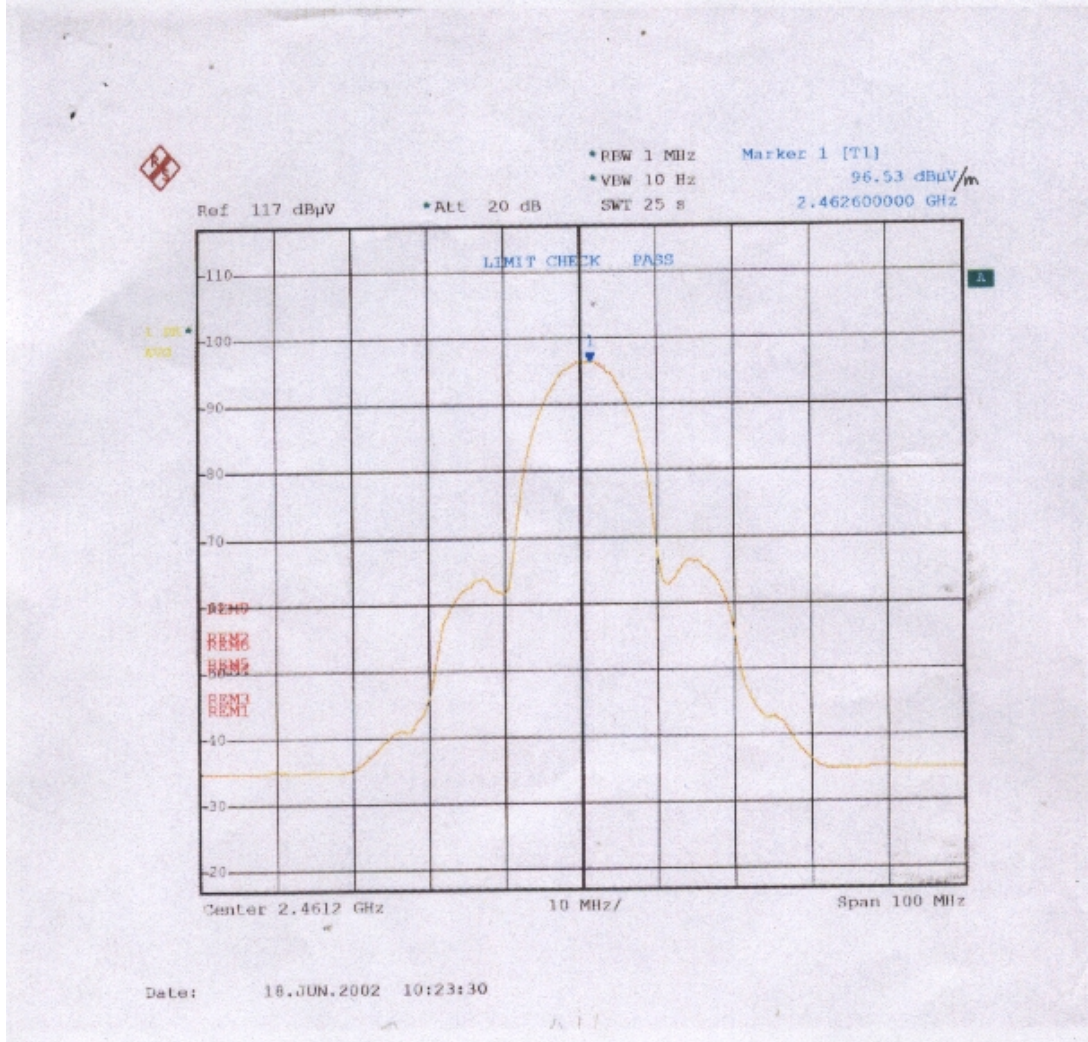
Frequency (MHz)	PEAK LEVEL in 100KHz BW (dBuV/m)	AVG LEVEL in 1MHz BW(dBuV/m)	Antenna Polarity (H/V)	15.209 (a) Limit (dBuV/m)	15.247 (b) Limit (dBuV/m)
2463.4	109.32	/	H	/	/
	98.23	/	V	/	/
2087.73	52.12	50.22	H	54	89.32
	51.32	48.64	V	54	78.23
* 4175.46	45.33	42.16	H	54	89.32
	43.12	41.58	V	54	78.23
* 4926.8	52.66	51.11	H	54	89.32
	51.74	50.75	V	54	78.23
6263.18	46.25	44.35	H	54	89.32
	45.36	42.78	V	54	78.23
* 7390.2	51.67	50.47	H	54	89.32
	46.04	45.21	V	54	78.23
* 8350.92	51.63	49.69	H	54	89.32
	49.58	48.44	V	54	78.23
9853.6	54.17	53.66	H	54	89.32
	/	/	V	54	78.23

* Use FCC Limit @ 15.209 for frequency in restricted bands.

FCC ID : JVPWL700

EUT Model No. AWL700

Band-edges Compliance / Restricted band



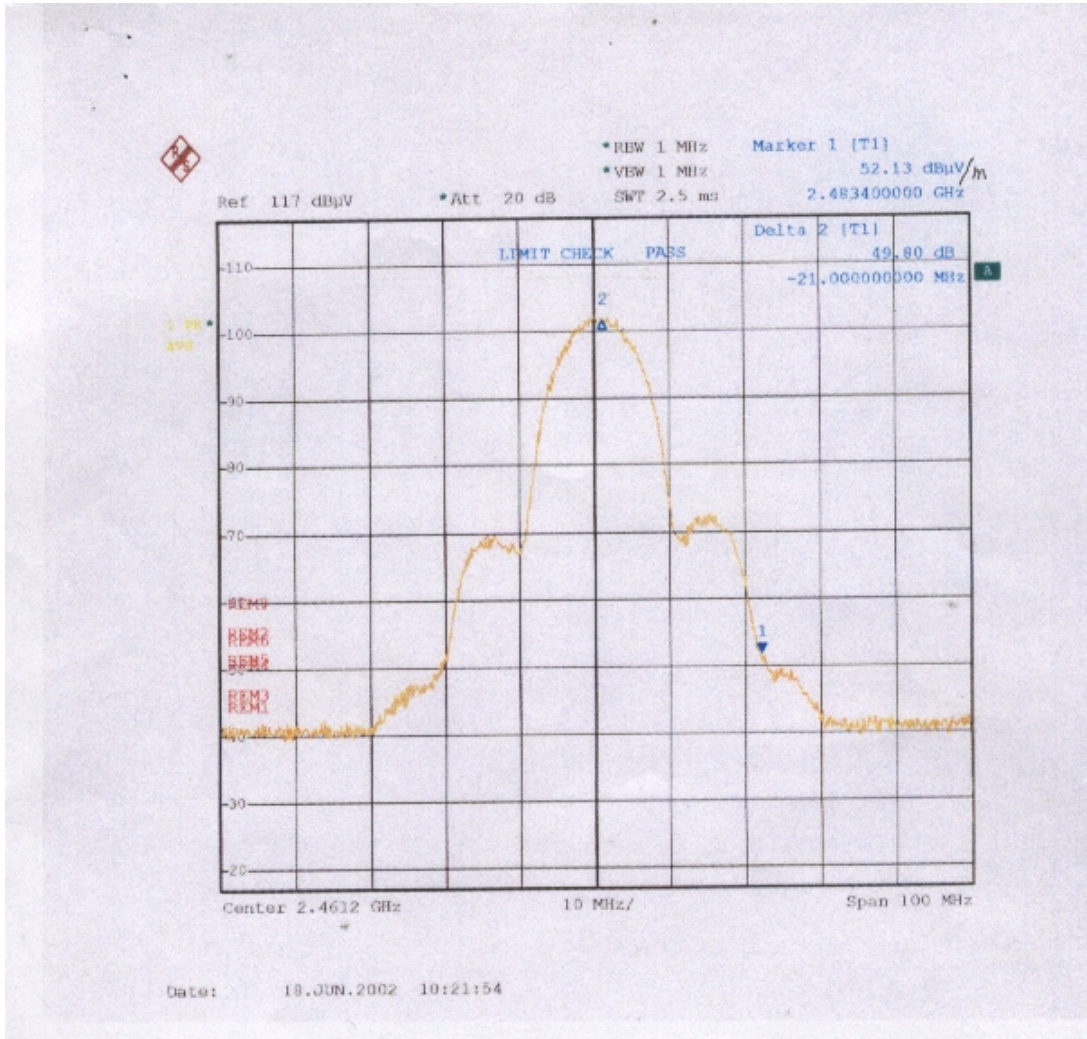
Test method : Public Notice DA 00-705

Detect : Average Value

Marker-Delta method :

$96.53\text{dBuV/m} - 49.80\text{dB} = 46.73\text{dBuV/m}$

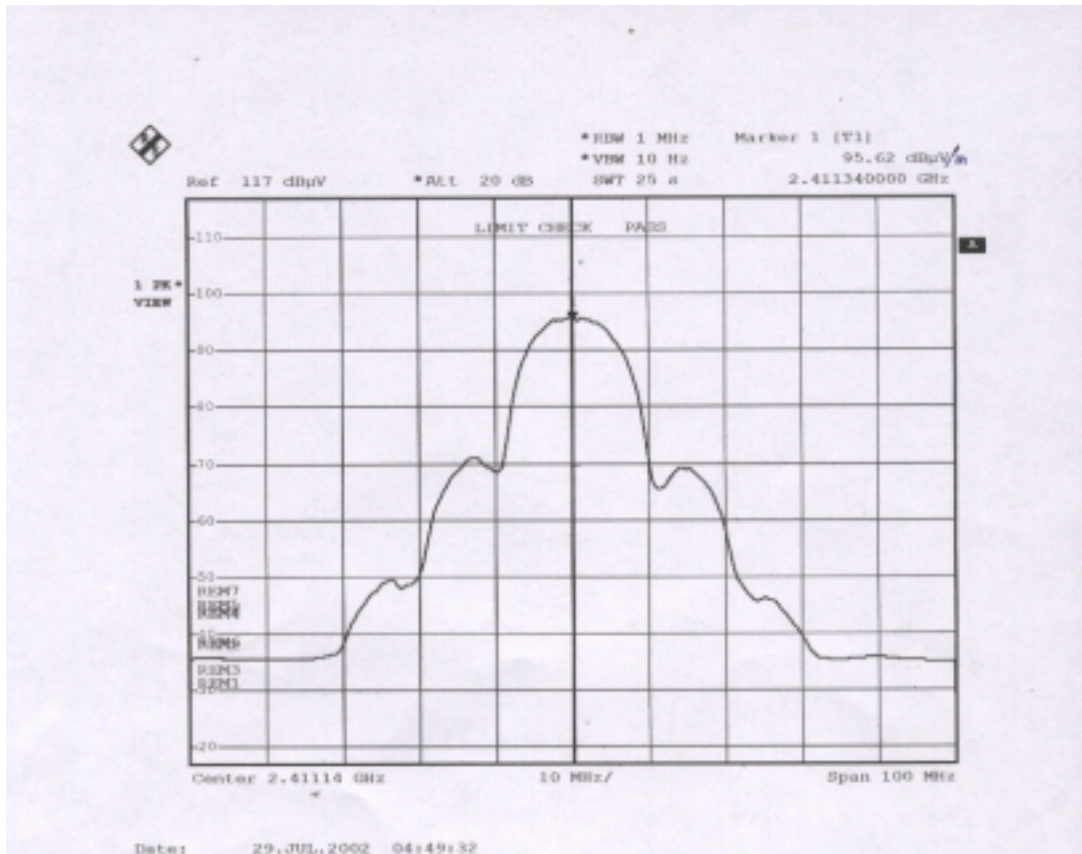
$*46.73\text{dBuV/m} < \text{Average Limit } (54\text{dBuV/m})$



Detect : Average Value

FCC ID : JVPAWL700

EUT Model No. AWL700



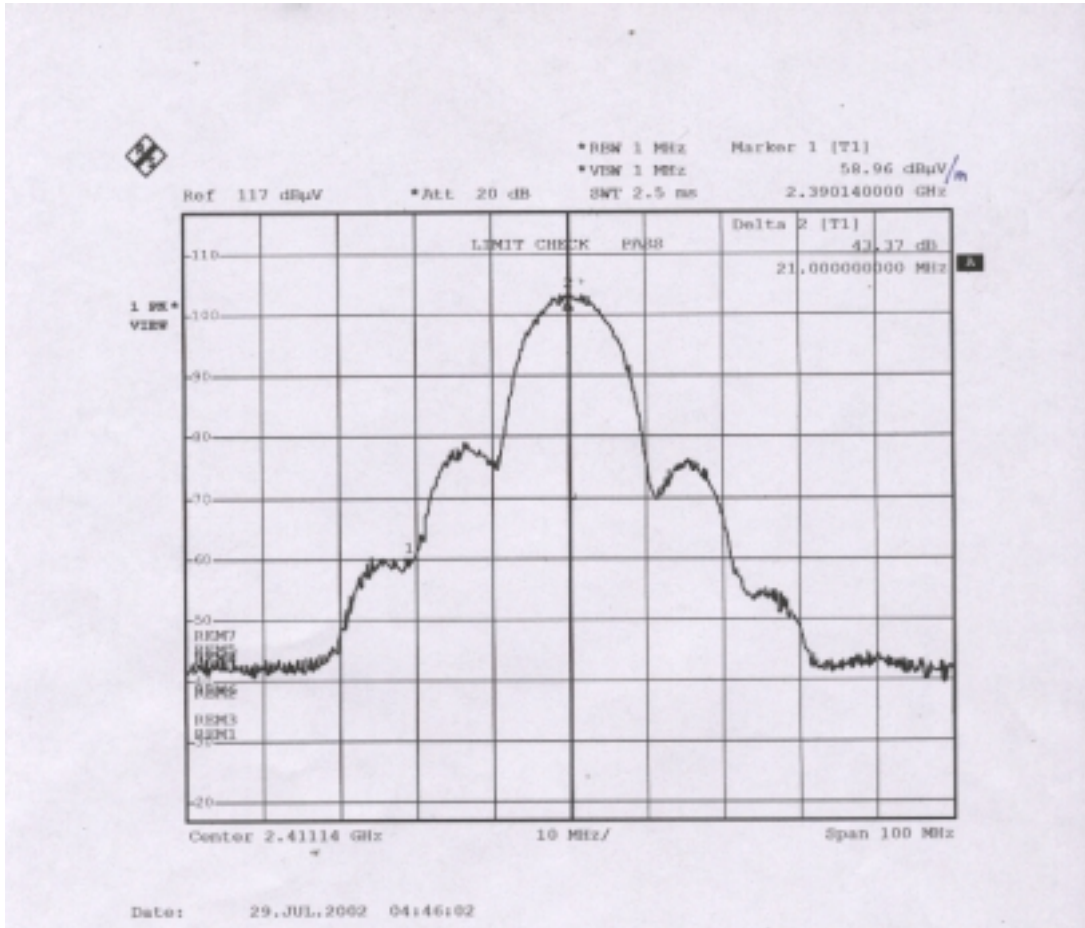
Test method : Public Notice DA 00-705

Detect : Average Value

Marker-delta method :

$95.62\text{dBuV/m} - 43.37\text{dB} = 52.25\text{dBuV/m}$

* $52.25\text{dBuV/m} < \text{Average Limit (54dBuV/m)}$



Detect Average Value