

# Certification of Compliance

## CFR 47 Part 15 Subpart C

Test Report File No. : 07-IST-0073      Date of Issue : Mar 20, 2007

Model(s) : NWTAP-100  
Kind of Product : Wireless Tap  
FCC ID : QEFNWTAP-100  
Applicant : NETWAVE CO.,LTD.  
Address : 389-2 Songnae-Dong, Sosa-Gu, Pucheon-Si, Kyunggi-Do, Korea  
  
Manufacturer : NETWAVE CO.,LTD.  
Address : 389-2 Songnae-Dong, Sosa-Gu, Pucheon-Si, Kyunggi-Do, Korea

### Test Result

☒ Positive

☐ Negative

Reviewed By

Approved By



S.J.CHO / EMC Group Manager



J.H.LEE / Chief

### Comment (s)

- Investigations requested : Measurement to the relevant clauses of FCC rules and regulations Part 15 Subpart C.
  - The test report with appendix consists of 55 pages.
  - The test result only responds to the tested sample.
  - It is not allowed to copy this report even partly without the allowance of IST EMC Laboratory.
  - This equipment as for has been shown to be capable of continued compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.4
- I assume full responsibility for accuracy and completeness of these data.



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Note:

## INFORMATIONS OF TEST LABORATORY

EMC LABORATORY of IST Co., Ltd. (*FCC Filing Lab.*)

Singal-dong, Giheung-gu, Yongin-City

Kyonggi-Do, 400-19, Korea

TEL : +82 31 326 6700

FAX : +82 31 326 6797

## ENVIRONMENTAL CONDITIONS

Temperature	22 °C	Humidity	43 %
Atmospheric pressure	1010 mbar		

## POWER SUPPLY SYSTEM USED

Power supply system      AC 60V(BNC IN PUT POWER)  
(Refer to the product information)

## PRODUCT INFORMATION

Type of EUT	Wireless Tap
Model No.	NWTAP-100
Working Frequency	2412~2162MHz
Channel Number	11
Type of Modulation(IEEE 802.11b)	DSSS
Type of Modulation(IEEE 802.11g)	OFDM
Data Speed(IEEE 802.11b)	1Mbps,2Mbps,5.5Mbps,11Mbps
Data Speed(IEEE 802.11g)	6Mbps,9Mbps,12Mbps,18Mbps, 24Mbps,36Mbps,48Mbps,54Mbps
Antenna Gain	6.0 dBi
Channel Control	Auto
Antenna Type	Omni Directional(ET-OM06-HN)
Antenna Joint Type	Reverse SMA
d)Power Supply	AC 60V

- Regards to the frequency band operation; the highest that was included the lowest, middle and highest frequency of channel were selected to perform the test, and then shown on this report.
- These tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with part 15 subpart C paragraph 15.247 for spread spectrum device.
- EMC suppression device is not used during the test.
- Please refer to user's manual.

## DESCRIPTION OF TEST

### Peak Power Output

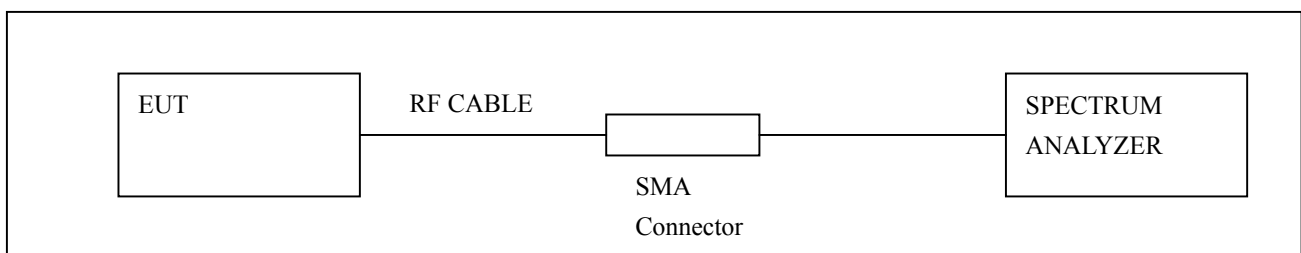
#### Test Equipment

The following test equipment are used during the test:

Item	Equipment	Manufacturer	Model no/Serial No.	Last Cal.
1	Spectrum Analyzer	Agilent	E7405A/MY42000092	2006.07.08
2	RF ROOM			

*Note : All equipment upon which need to calibrated are with calibration period of 1 year.*

#### Test Setup



#### Limits

The maximum peak power shall be less than 1 Watt.

#### Test specification

According to FCC CFR Title 47 Part 15 Subpart C Section 15.247:2005

# Test result

Product	Wireless Tap(NWTAP-100)		
Test Item	Peak Power Output		
Test Mode	Transmit		
Date of Test	Feb.05.2007	Test Site	RF Room

IEEE 802.11b				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	18.24	1Watt=30dBm	Pass
6	2437	18.24	1Watt=30dBm	Pass
11	2462	18.18	1Watt=30dBm	Pass

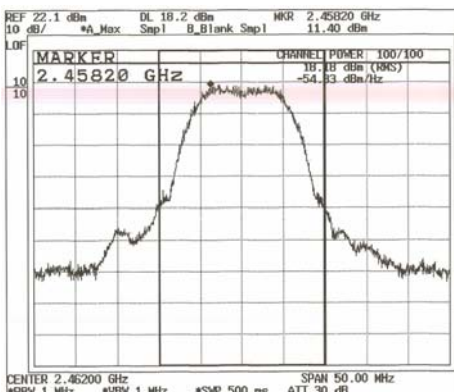
Channel 1.



channel 6.



Channel 11

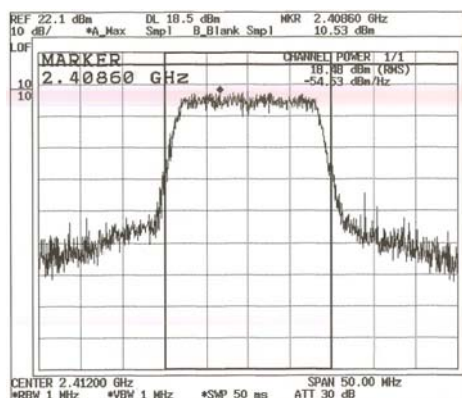


## Test result

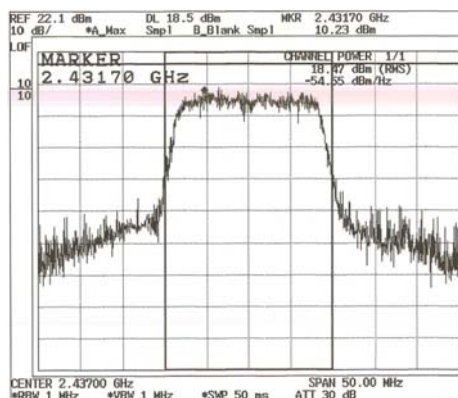
Product	Wireless Tap(NWTAP-100)		
Test Item	Peak Power Output		
Test Mode	Transmit		
Date of Test	Feb.05.2007	Test Site	RF Room

IEEE 802.11g				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	18.48	1Watt=30dBm	Pass
6	2437	18.47	1Watt=30dBm	Pass
11	2462	18.16	1Watt=30dBm	Pass

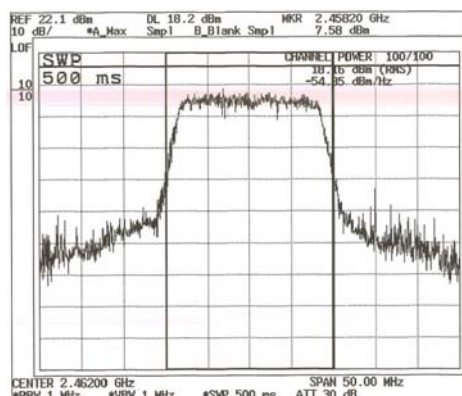
Channel 1.



channel 6.



Channel 11



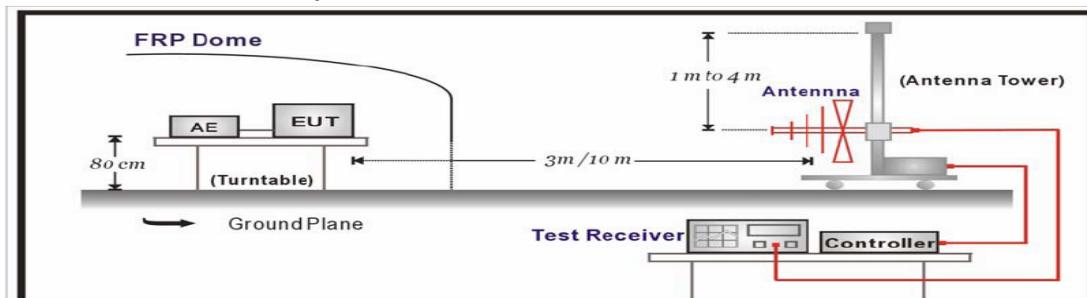
## **Radiated Emissions:**

The measurement was performed over the frequency range of 30MHz to 1GHz using antenna as the input transducer to a Spectrum analyzer or a Field Intensity Meter. The measurement was made with the detector set for "quasi-peak" within a bandwidth of 120KHz.

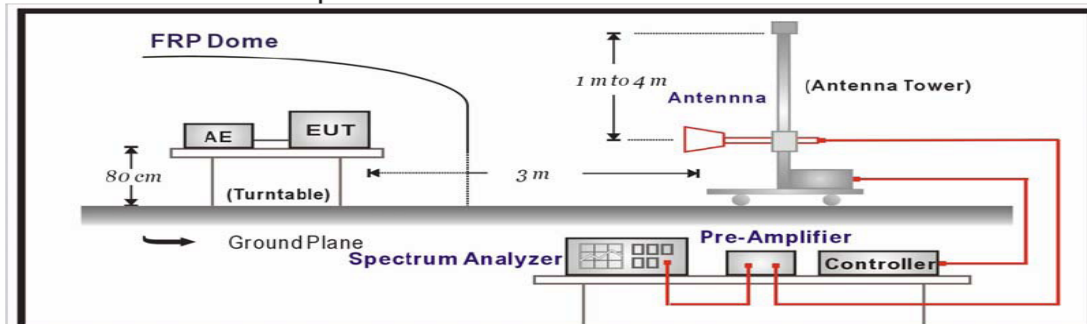
### **- Procedure of Test**

Preliminary measurements were made at 3 meter using bi-log antennas, and spectrum analyzer to determine the frequency producing the max. emission in anechoic chamber. Appropriate precaution was taken to ensure that all emission from the EUT were maximized and investigated. The system configuration, mode of operation, turn-table azimuth and height with respect to the antenna were noted for each frequency found. The spectrum was scanned from 30MHz to 1000MHz using bi-log antenna. Above 1GHz, linearly polarized double ridge horn antennas were used. Final measurements were made at open site with 3-meters test distance using bi-log antenna or horn antenna. The OATS have been verified in regular for its normalized site attenuation. The test equipment was placed on a wooden table. Sufficient time for the EUT, peripheral equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. Each frequency found during pre-scan measurements was re-examined by manual. The detector function was set to CISPR quasi-peak mode and the bandwidth of the receiver was set to 120kHz or 1MHz depending on the frequency of type of signal. The EUT, peripheral equipment and interconnecting cables were re-configured to the set-up producing the max. emission for the frequency and were placed on top of a 0.8-meter high nonmetallic 1 x 1.5 meter table. The EUT, peripheral equipment, and interconnecting cables were re-arranged and manipulated to maximize each emission. The turntable containing the system was rotated; the antenna height was varied 1 to 4 meters and stopped at the azimuth or height producing the maximum emission. Each emission was maximized by: varying the mode of operation to the EUT and/or peripheral equipment and changing the polarity of the antenna, whichever determined the worst-case emission. (The bandwidth below 1GHz setting on the field strength meter is 120KHz and above 1GHz is 1MHz.)

Under 1GHz Test Setup:



Above 1GHz Test Setup:



## limits

Emissions radiated outside of the specified frequency bands, except for harmonics, Shall be attenuated by at least 20dB below the level of the fundamental or to the General radiated emission limits in paragraph 15.209, whichever is the lesser attenuation:

FCC Part 15 Subpart C Paragraph 15.209 Limits		
Frequency (MHz)	μV/meter	dBμV/meter
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

Remarks : 1.  $RF\ Voltage(dB\mu V) = 20 \log RF\ Voltage(\mu V)$

2. In the Above Table, the tighter limit applies at the band edges.
3. Distance refers to the distance in meters between the measuring Instrument antenna and the closed point of any part of the device or System.

Test specification.

According to FCC CFR Title 47 Part 15 Subpart C Section 15.209:2005



## Measurement Uncertainty Calculations

The measurement uncertainties stated were calculated in accordance with the requirements of NIST Technical Note 1297 and NIS 81 (1994).

Contribution (Conducted Emissions)	Probability Distribution	Uncertainty (±dB)
		0.15-30MHz
Receiver Specification	Rectangular	1.5
LISN Coupling Specification	Rectangular	1.5
Cable and Input Attenuator Calibration	Normal (k=2)	0.5
Mismatch to Reciver	U-Shaped	-0.8 / +0.7
System Repeatability	Normal (k=1)	0.2
Combined Standard Uncertainty	Normal (k=2)	-1.85 / +1.71
Expanded Uncertainty U	Normal (k=2)	-3.7 / +3.42

$$U_{c,minus} = -1.85, U_{c,plus} = 1.71$$

$$U = -3.70 / +3.42 \text{ (} k=2, 95.45\% \text{ confidence level)}$$

Contribution (Radiated Emissions)	Probability Distribution	Uncertainties(±dB)
		3 m
Antenna		
Factor	Normal (k=2)	0.9968
Frequency Interpolation	Rectangular	0.1039
Height Variation	Rectangular	-2.6 / +1.5
Directivity Difference	Rectangular	-1.0 / +0
Phase Center Location	Rectangular	1.0
Cable Loss	Normal (k=2)	0.5
Receiver		
Voltage Accuracy	Normal (k=2)	2.0
Pulse Response	Rectangular	1.5
Absolute Repetition Rate	Rectangular	1.5
Mismatch to Receiver		
$\Gamma_{\text{antenna}}$   = 0.33	U-Shaped	-1.0 / +0.9
$\Gamma_{\text{receiver}}$   = 0.33		
System Repeatability	Std Deviation	0.5
Combined Standard Uncertainty	Normal	-2.6048 / 2.2775
Expanded Uncertainty U	Normal (k=2)	-5.21 / +4.55

$$U_{c,minus} = -2.6048, U_{c,plus} = 2.2775$$

$$U = -5.21 / +4.55 \text{ (} k=2, 95.45\% \text{ confidence level)}$$

## Equipment Under Test

### EUT Type :

- ☒ Table-Top.
 ☐ Floor-Standing.
   
☐ Table-Top and Floor-Standing(Combination).

### Operation – mode of the E.U.T. :

The equipment under test was operated during the measurement under following conditions :

- ☐ Standby Mode
   
☒ Operational Condition : ☒ continue Transmit

### Configuration of the equipment under test :

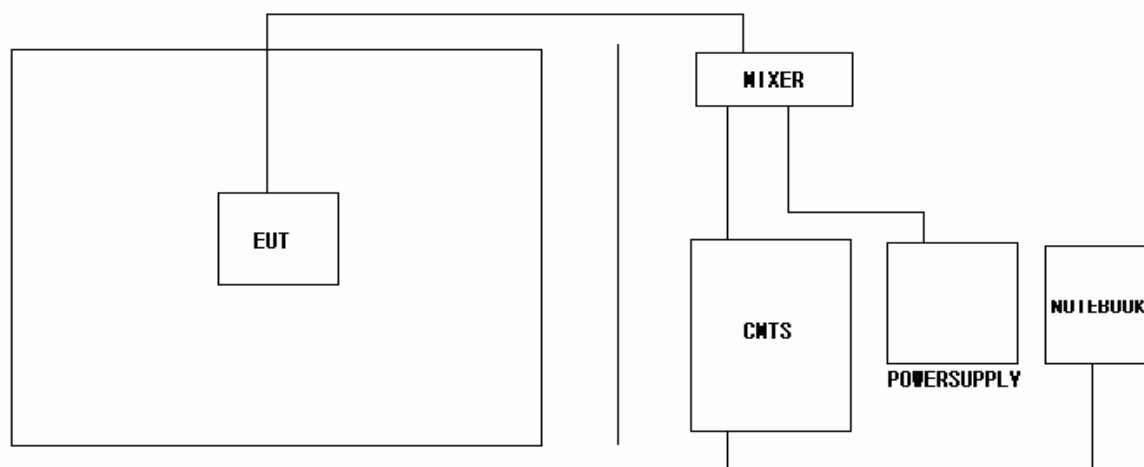
Following peripheral devices and interface cables were connected during the measurement :

Equipment	Type	Brand	Serial No.
CATV power supply	HS-530	NETWAVE CO.,LTD.	N/A
CMTS	CMTS 1000	NORTAL NETWORK.	N/A
NOTEBOOK	SENS830	SAMSUNG.	N/A

Connecting Interface Cables : BNC cable : 10m

Note :

## Test Set-Up



Radiated Emissions

## SUMMARY

### Test Descriptions

- Peak power output
  - Test result PASS
- Radiated Emission
  - Radiated Emission Result PASS
- Band edge
  - Test result PASS
- Occupied Bandwidth
  - Test Result PASS
- Power Density
  - Test Result PASS

### Test Date

Begin of Testing : Feb 05, 2007 - End of Testing : Feb 22, 2007

Note :

- ☒ means the test is applicable,
- ☐ is not applicable.

Prepared By



C.W.Kim / Project Engineer

### Radiated Emission

[Applicable]

#### ◆ Test Equipment Used

Name	Type	Manufacturer	Calibration. Date	Serial Number
ESCI	Test Receiver	Rohde & Schwarz	May. 23, 2006	100373
SPECTRUM ANALYZER	E7405A	AGILENT	Jan. 08, 2006	MY420000092
BICONILOG Antenna	VULB 9160	Schwarz beck	Aug. 14, 2006	3047
HORN-Antenna	3115	EMCO	Oct. 03, 2005	9012-3602
HORN-Antenna	SAS-571	A.H. SYSTEMS	Apr. 25, 2005	500
PRE AMPLIFIER	8449B OPT H02	Rohde & Schwarz	Oct. 17, 2006	3008A0530

*Note : 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to RRL, KRISS, KTL and HCT.*

*2. The calibration interval of horn ant. and loop ant. is 24 months*

#### Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain (if any) from the measured reading. For the limit is employed average value, therefore the peak value can be transferred to average value by subtracting the duty factor. The basic equation with a sample calculation is as follows:

$$\text{Peak} = \text{Reading} + \text{Corrected Factor}$$

Where

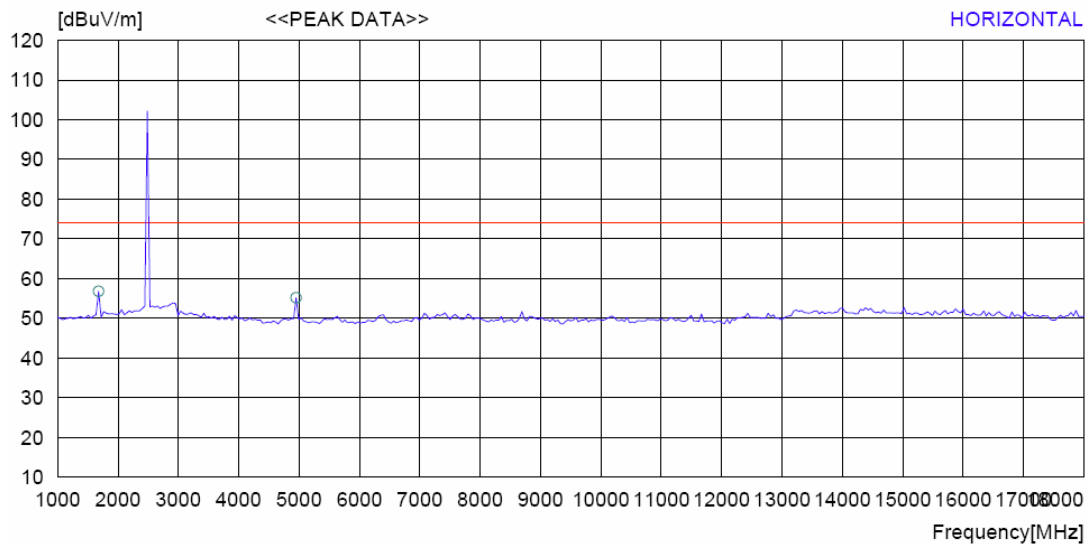
Corr. Factor = Antenna Factor + Cable Factor - Amplifier Gain (if any)

## Radiated Emissions Result

(Disturbance Radiation)

[Applicable]-Feb.10.2007~ Feb.17.2007

EUT	NWTAP-100	PROBE	RF 1GHZ~18GHz-HOR
POWER	AC 60V	NOTE	TX-B-CH1



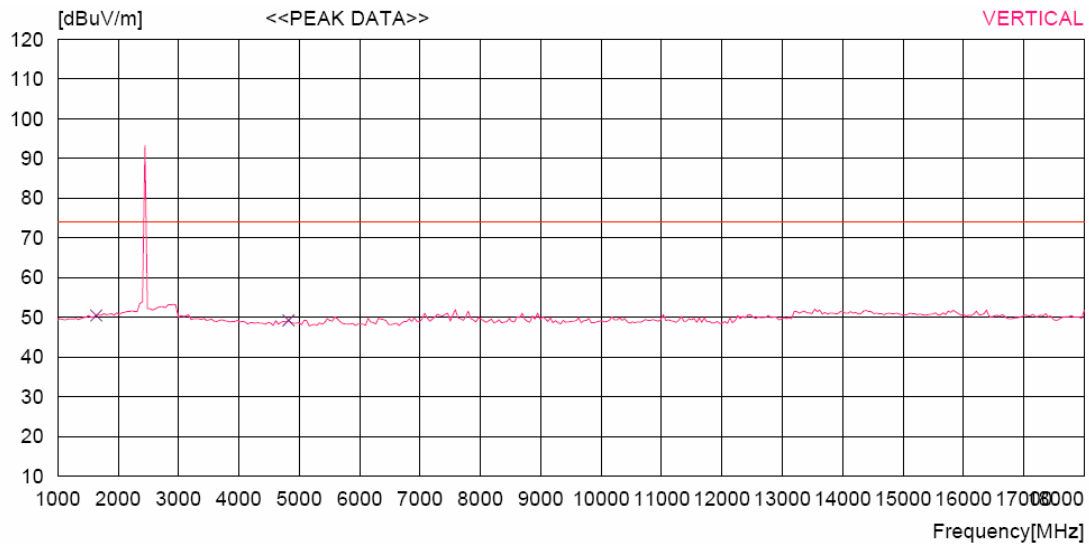
Frequency MHz	Reading dBuV	P (H, V)	Ant. Factor dB	Cable Loss dB	AMP GAIN dB	Total dBuV	Limit dBuV	Margin dB
1,637.5	53.6	H	6.1	6.0	36.5	29.2	74.0	-44.8
*4,825.0	56.3	H	9.7	20.1	35.5	50.6	74.0	-23.4

Note :

- 1.. Remark "\*" means that the data is the worst emission level.
2. All readings below 1GHz are Quasi-peak, above are performed with peak and/or average measurements as necessary.
3. Measurement level = reading level + correct factor – amp gain
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the reading given are average, peak measurement should also be supplied.

[Applicable]

EUT	NWTAP-100	PROBE	RF 1GHZ~18GHz-VER
POWER	AC 60V	NOTE	TX-B-CH1



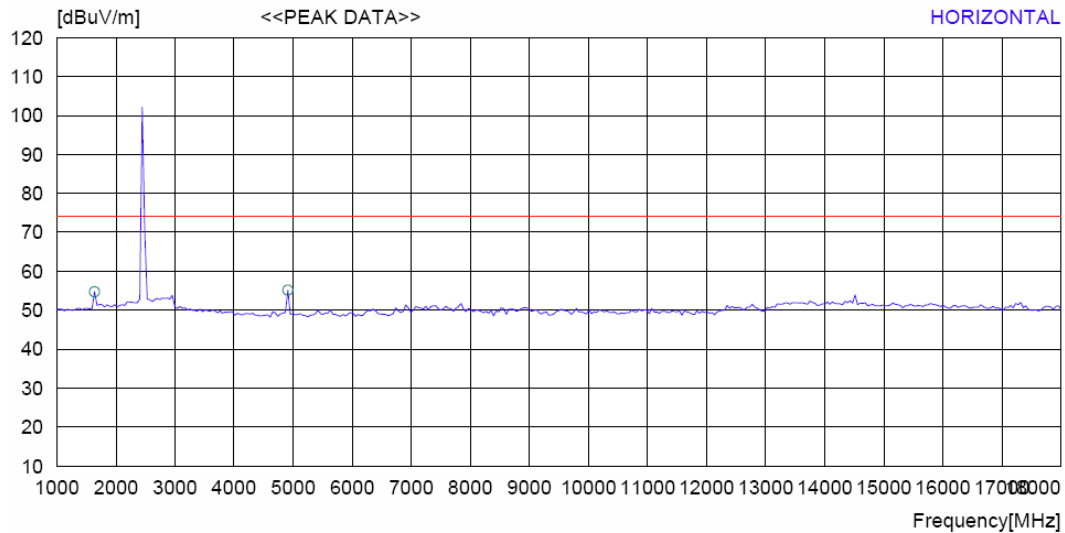
Frequency MHz	Reading dBuV	P (H, V)	Ant. Factor dB	Cable Loss dB	AMP GAIN dB	Total dBuV	Limit dBuV	Margin dB
*1,637.5	50.4	V	6.1	6.0	36.5	26.0	74.0	-48.0
4,825.0	49.2	V	9.7	20.1	35.5	43.5	74.0	-20.5

Note :

- 1.. Remark “\*” means that the data is the worst emission level.
2. All readings below 1GHz are Quasi-peak, above are performed with peak and/or average measurements as necessary.
3. Measurement level = reading level + correct factor – amp gain
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the reading given are average, peak measurement should also be supplied.

[Applicable]

EUT	NWTAP-100	PROBE	RF 1GHZ~18GHz-HOR
POWER	AC 60V	NOTE	TX-B-CH6



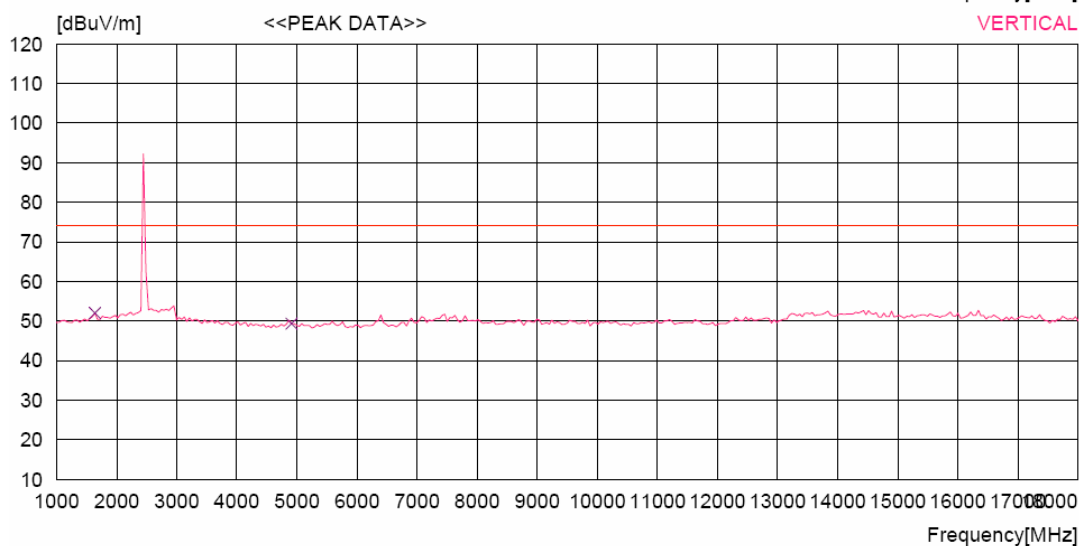
Frequency MHz	Reading dBuV	P (H, V)	Ant. Factor dB	Cable Loss dB	AMP GAIN dB	Total dBuV	Limit dBuV	Margin dB
1,637.5	54.7	H	6.1	6.0	36.5	30.3	74.0	-43.7
*4,910.0	55.1	H	9.7	20.1	35.5	49.4	74.0	-24.6

Note :

- 1.. Remark “\*” means that the data is the worst emission level.
2. All readings below 1GHz are Quasi-peak, above are performed with peak and/or average measurements as necessary.
3. Measurement level = reading level + correct factor – amp gain
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the reading given are average, peak measurement should also be supplied.

[Applicable]

EUT	NWTAP-100	PROBE	RF 1GHZ~18GHz-VER
POWER	AC 60V	NOTE	TX-B-CH6



Frequency MHz	Reading dBuV	P (H, V)	Ant. Factor dB	Cable Loss dB	AMP GAIN dB	Total dBuV	Limit dBuV	Margin dB
1,637.5	52.7	V	6.1	6.0	36.5	28.3	74.0	-45.7
*4,910.0	49.3	V	9.7	20.1	35.5	43.6	74.0	-30.4

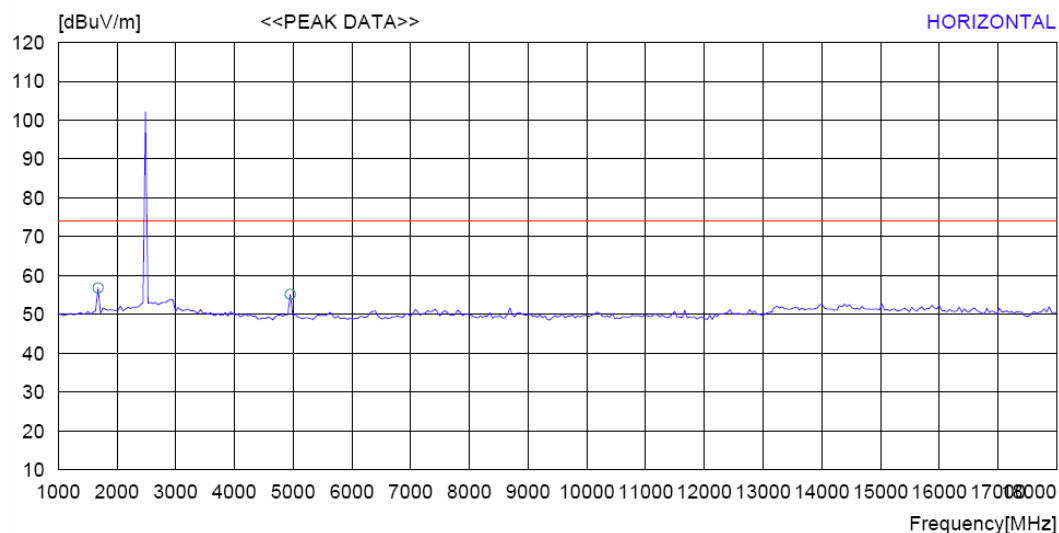
Note :

- 1.. Remark “\*” means that the data is the worst emission level.
2. All readings below 1GHz are Quasi-peak, above are performed with peak and/or average measurements as necessary.
3. Measurement level = reading level + correct factor – amp gain
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the reading given are average, peak measurement should also be supplied.



[Applicable]

EUT	NWTAP-100	PROBE	RF 1GHZ~18GHz-HOR
POWER	AC 60V	NOTE	TX-B-CH11



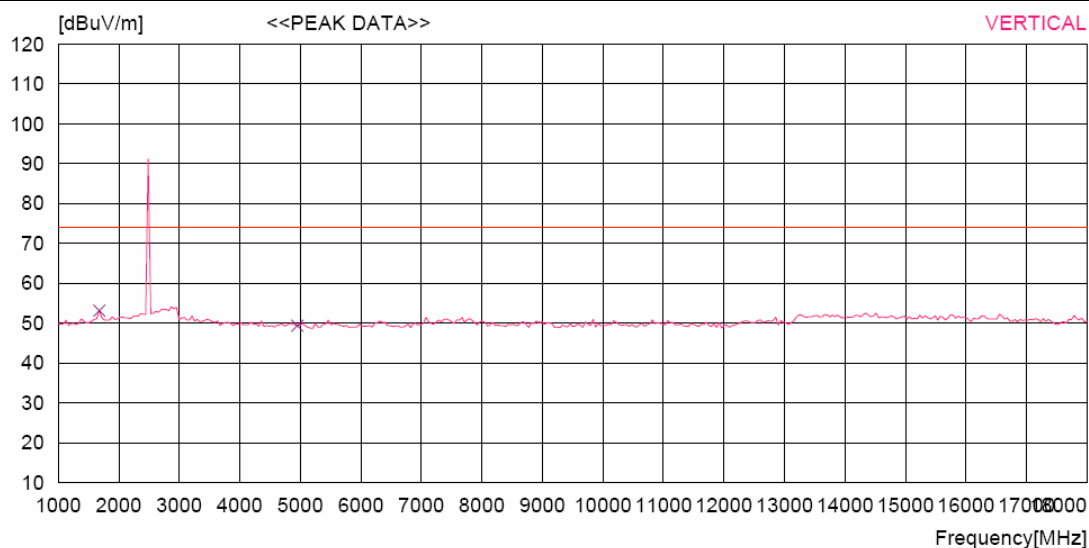
Frequency MHz	Reading dBuV	P (H, V)	Ant. Factor dB	Cable Loss dB	AMP GAIN dB	Total dBuV	Limit dBuV	Margin dB
*1,680.0	56.8	H	6.1	6.0	36.5	32.4	74.0	-41.6
4,952.5	55.2	H	9.7	20.1	35.5	49.5	74.0	-24.5

Note :

1. Remark "\*" means that the data is the worst emission level.
2. All readings below 1GHz are Quasi-peak, above are performed with peak and/or average measurements as necessary.
3. Measurement level = reading level + correct factor – amp gain
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the reading given are average, peak measurement should also be supplied.

[Applicable]

EUT	NWTAP-100	PROBE	RF 1GHZ~18GHz-VER
POWER	AC 60V	NOTE	TX-B-CH11



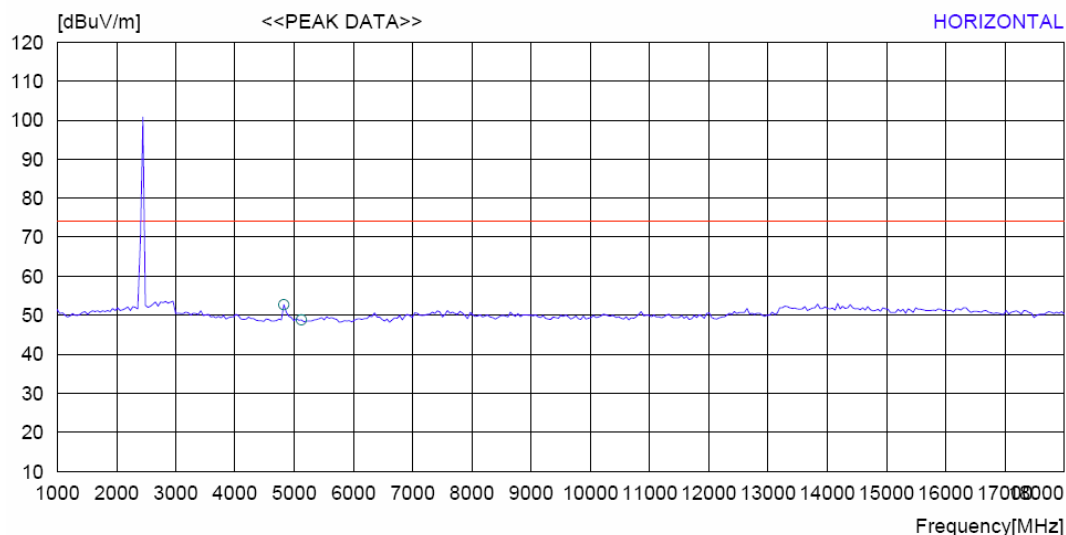
Frequency MHz	Reading dBuV	P (H, V)	Ant. Factor dB	Cable Loss dB	AMP GAIN dB	Total dBuV	Limit dBuV	Margin dB
*1,680.0	53.1	V	6.1	6.0	36.5	28.7	74.0	-45.3
4,952.5	49.3	V	9.7	20.1	35.5	43.6	74.0	-30.4

Note :

1. Remark “\*” means that the data is the worst emission level.
2. All readings below 1GHz are Quasi-peak, above are performed with peak and/or average measurements as necessary.
3. Measurement level = reading level + correct factor – amp gain
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the reading given are average, peak measurement should also be supplied.

[Applicable]

EUT	NWTAP-100	PROBE	RF 1GHZ~18GHz-HOR
POWER	AC 60V	NOTE	TX-G-CH1



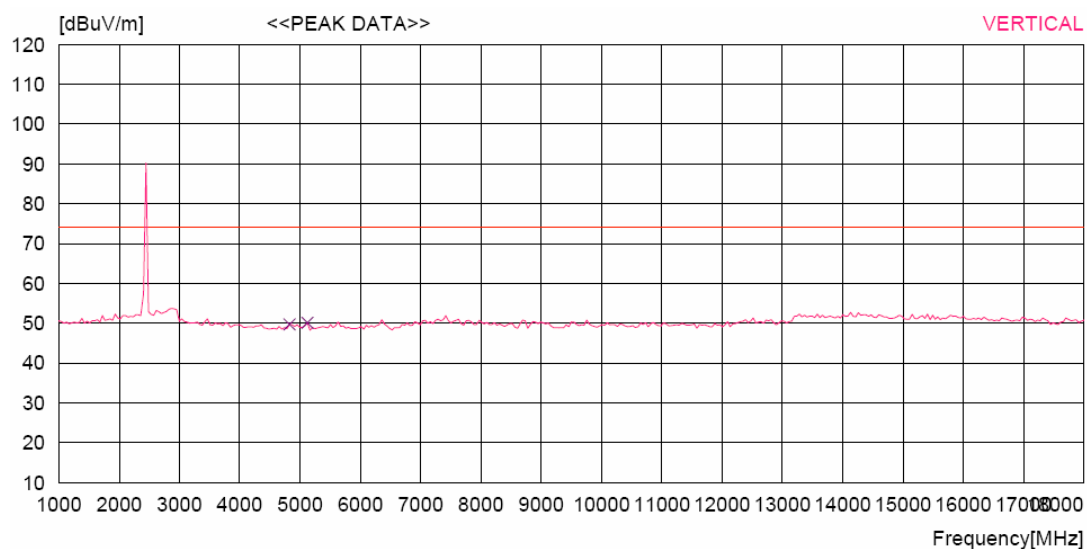
Frequency MHz	Reading dBuV	P (H, V)	Ant. Factor dB	Cable Loss dB	AMP GAIN dB	Total dBuV	Limit dBuV	Margin dB
*4,825.0	52.7	H	9.7	20.1	35.5	47.0	74.0	-27.0
5,122.5	48.8	H	11.0	23.5	34.8	48.5	74.0	-25.5

Note :

- 1.. Remark “\*” means that the data is the worst emission level.
2. All readings below 1GHz are Quasi-peak, above are performed with peak and/or average measurements as necessary.
3. Measurement level = reading level + correct factor – amp gain
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the reading given are average, peak measurement should also be supplied.

[Applicable]

EUT	NWTAP-100	PROBE	RF 1GHZ~18GHz-VER
POWER	AC 60V	NOTE	TX-G-CH1



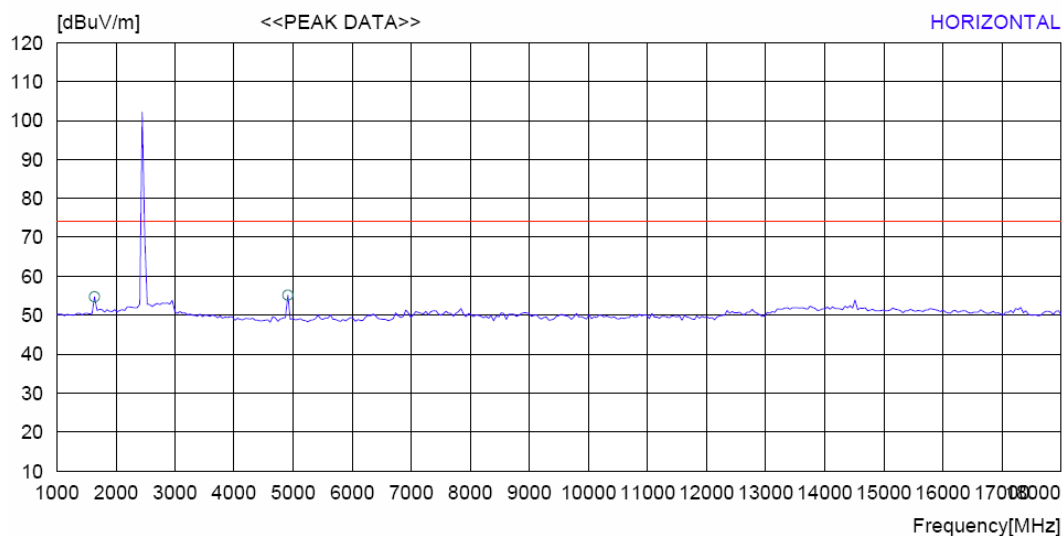
Frequency MHz	Reading dBuV	P (H, V)	Ant. Factor dB	Cable Loss dB	AMP GAIN dB	Total dBuV	Limit dBuV	Margin dB
4,825.0	49.7	V	9.7	20.1	35.5	44.0	74.0	-30.0
*5,122.5	50.1	V	11.0	23.5	34.8	49.8	74.0	-24.2

Note :

- 1.. Remark “\*” means that the data is the worst emission level.
2. All readings below 1GHz are Quasi-peak, above are performed with peak and/or average measurements as necessary.
3. Measurement level = reading level + correct factor – amp gain
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the reading given are average, peak measurement should also be supplied.

[Applicable]

EUT	NWTAP-100	PROBE	RF 1GHZ~18GHz-HOR
POWER	AC 60V	NOTE	TX-G-CH6



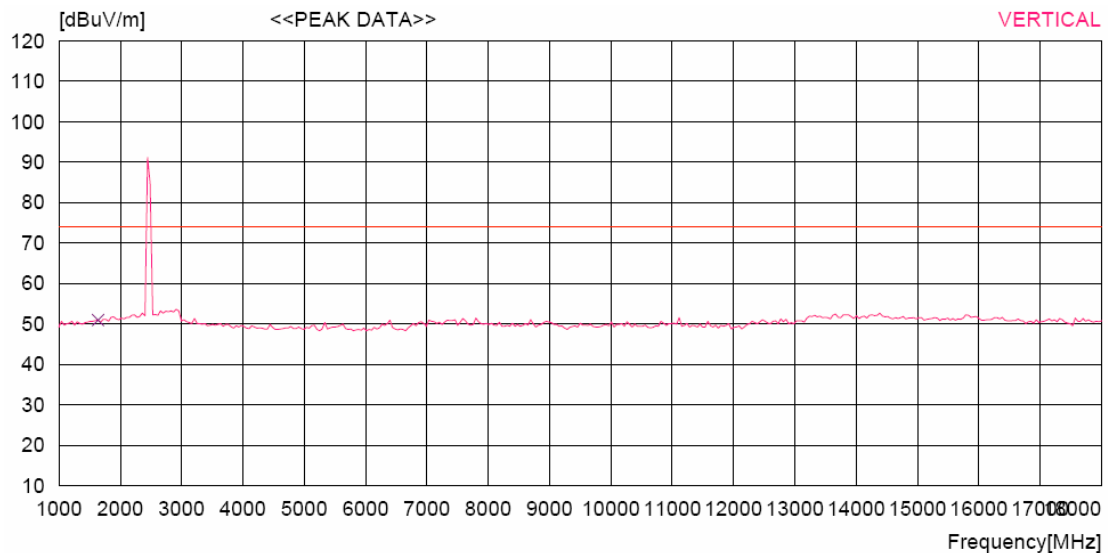
Frequency MHz	Reading dBuV	P (H, V)	Ant. Factor dB	Cable Loss dB	AMP GAIN dB	Total dBuV	Limit dBuV	Margin dB
*1,637.5	52.0	H	6.1	6.0	36.5	27.6	74.0	-46.4

Note :

- 1.. Remark "\*" means that the data is the worst emission level.
2. All readings below 1GHz are Quasi-peak, above are performed with peak and/or average measurements as necessary.
3. Measurement level = reading level + correct factor – amp gain
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the reading given are average, peak measurement should also be supplied.

[Applicable]

EUT	NWTAP-100	PROBE	RF 1GHZ~18GHz-VER
POWER	AC 60V	NOTE	TX-G-CH6



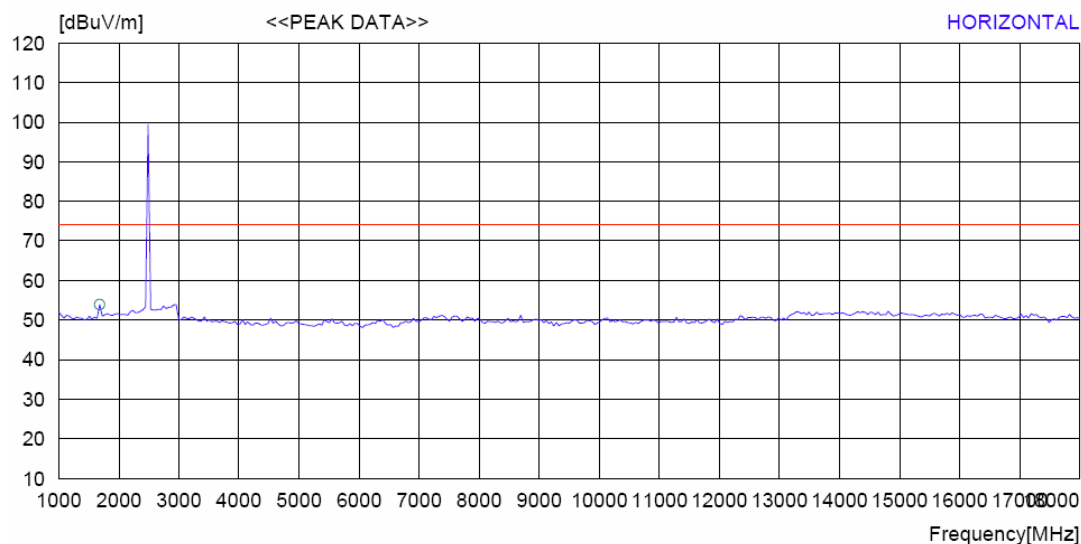
Frequency MHz	Reading dBuV	P (H, V)	Ant. Factor dB	Cable Loss dB	AMP GAIN dB	Total dBuV	Limit dBuV	Margin dB
*1,637.5	50.9	V	6.1	6.0	36.5	26.5	74.0	-47.5

Note :

- 1.. Remark "\*" means that the data is the worst emission level.
2. All readings below 1GHz are Quasi-peak, above are performed with peak and/or average measurements as necessary.
3. Measurement level = reading level + correct factor – amp gain
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the reading given are average, peak measurement should also be supplied.

[Applicable]

EUT	NWTAP-100	PROBE	RF 1GHZ~18GHz-HOR
POWER	AC 60V	NOTE	TX-G-CH11



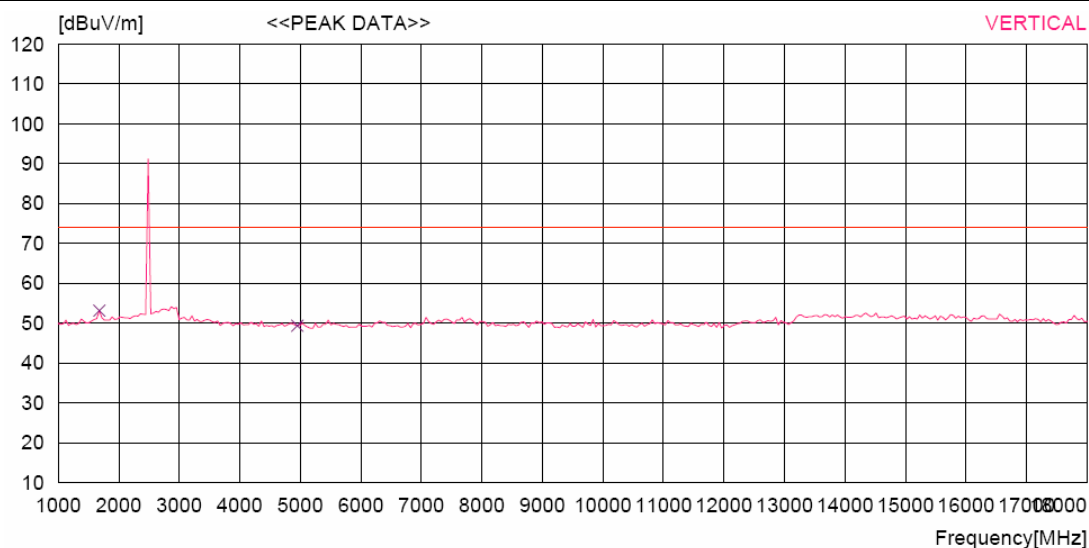
Frequency MHz	Reading dBuV	P (H, V)	Ant. Factor dB	Cable Loss dB	AMP GAIN dB	Total dBuV	Limit dBuV	Margin dB
*1,680.0	53.9	H	6.1	6.0	36.5	29.5	74.0	-44.5

Note :

1. Remark "\*" means that the data is the worst emission level.
2. All readings below 1GHz are Quasi-peak, above are performed with peak and/or average measurements as necessary.
3. Measurement level = reading level + correct factor – amp gain
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the reading given are average, peak measurement should also be supplied.

[Applicable]

EUT	NWTAP-100	PROBE	RF 1GHZ~18GHz-VER
POWER	AC 60V	NOTE	TX-G-CH11



Frequency MHz	Reading dBuV	P (H, V)	Ant. Factor dB	Cable Loss dB	AMP GAIN dB	Total dBuV	Limit dBuV	Margin dB
*1,680.0	50.6	V	6.1	6.0	36.5	26.2	74.0	-47.8

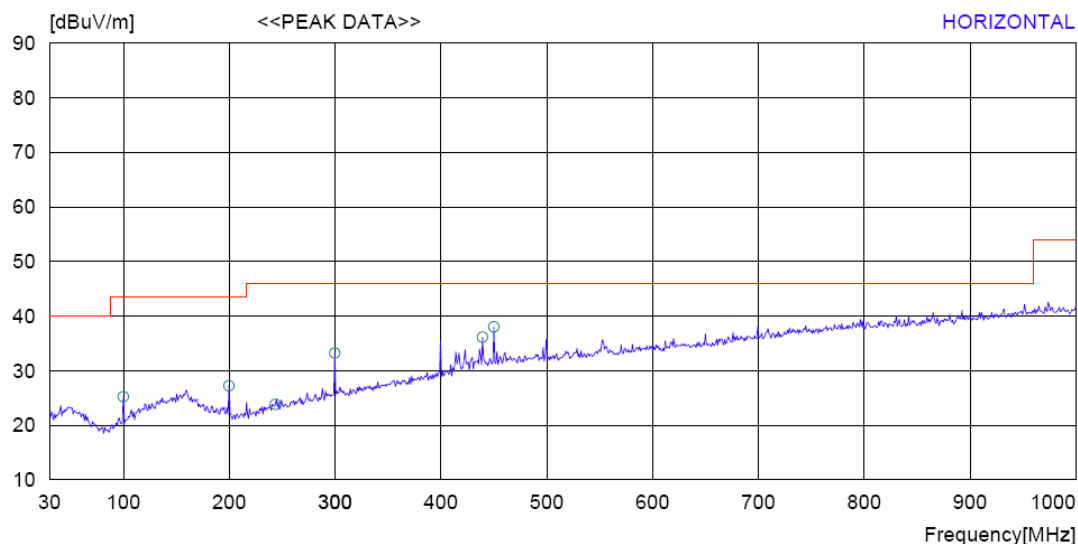
Note :

1. Remark "\*" means that the data is the worst emission level.
2. All readings below 1GHz are Quasi-peak, above are performed with peak and/or average measurements as necessary.
3. Measurement level = reading level + correct factor – amp gain
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the reading given are average, peak measurement should also be supplied.



[Applicable]

EUT	NWTAP-100	PROBE	RF 0.3GHz~1GHz-HOR
POWER	AC 60V	NOTE	TX-B-CH1



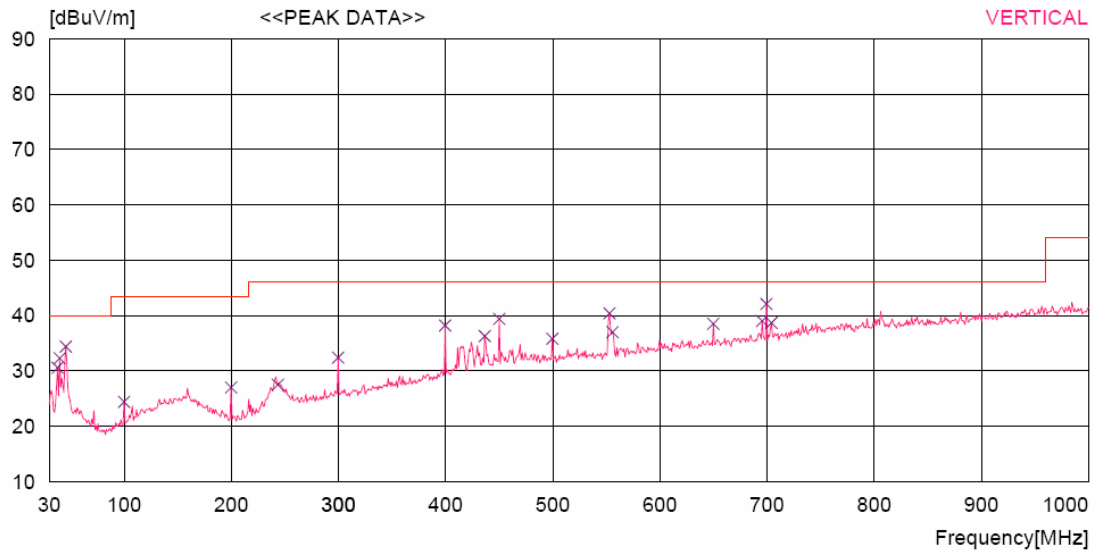
Frequency MHz	Reading dBuV	P (H, V)	Ant. Factor dB	Cable Loss dB	AMP GAIN dB	Total dBuV	Limit dBuV	Margin dB
99.8	14.5	H	8.0	1.4	0.0	23.9	43.5	-19.6
199.8	16.2	H	10.8	2.0	0.0	29.0	43.5	-14.5
243.4	10.9	H	9.1	2.2	0.0	22.2	46.0	-23.8
299.7	18.1	H	10.9	2.7	0.0	31.7	46.0	-14.3
439.3	16.6	H	14.8	3.3	0.0	34.7	46.0	-11.3
*450.1	18.0	H	16.4	3.6	0.0	38.0	46.0	-8.0

Note :

1. Remark “\*” means that the data is the worst emission level.
2. All reading levels are Quasi-peak value.
3. Measurement level = reading level + correct factor

[Applicable]

EUT	NWTAP-100	PROBE	RF 0.3GHz~1GHz-VER
POWER	AC 60V	NOTE	TX-B-CH1



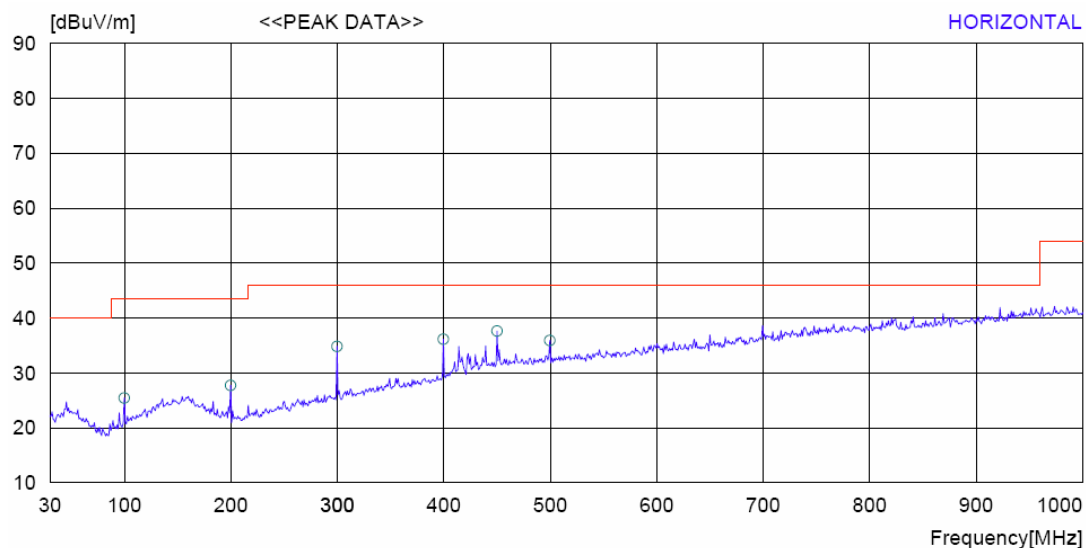
Frequency MHz	Reading dBuV	P (H, V)	Ant. Factor dB	Cable Loss dB	AMP GAIN dB	Total dBuV	Limit dBuV	Margin dB
37.6	18.4	V	11.2	1.0	0.0	30.6	40.0	-9.4
39.7	19.9	V	11.2	1.0	0.0	32.1	40.0	-7.9
45.5	21.6	V	11.8	1.0	0.0	34.4	40.0	-5.6
99.8	13.7	V	8.0	1.4	0.0	23.1	43.5	-20.4
199.8	16.0	V	10.8	2.0	0.0	28.8	43.5	-14.7
243.4	14.6	V	9.1	2.2	0.0	25.9	46.0	-20.1
299.7	17.3	V	10.9	2.7	0.0	30.9	46.0	-15.1
399.6	20.5	V	13.6	3.2	0.0	37.3	46.0	-8.7
436.4	17.0	V	14.8	3.3	0.0	35.1	46.0	-10.9
450.0	19.4	V	16.4	3.6	0.0	39.4	46.0	-6.6
499.5	15.1	V	16.4	3.6	0.0	35.1	46.0	-10.9
*552.8	18.7	V	18.2	4.0	0.0	40.9	46.0	-5.1
555.7	15.3	V	18.2	4.0	0.0	37.5	46.0	-8.5
649.8	15.0	V	18.8	4.3	0.0	38.1	46.0	-7.9
695.4	14.6	V	19.6	4.4	0.0	38.6	46.0	-7.4
699.3	17.6	V	19.6	4.4	0.0	41.6	46.0	-4.4
704.1	14.1	V	20.0	4.5	0.0	38.6	46.0	-7.4

Note :

1. Remark "\*" means that the data is the worst emission level.
2. All reading levels are Quasi-peak value.
3. Measurement level = reading level + correct factor

[Applicable]

EUT	NWTAP-100	PROBE	RF 0.3GHz~1GHz-HOR
POWER	AC 60V	NOTE	TX-B-CH6



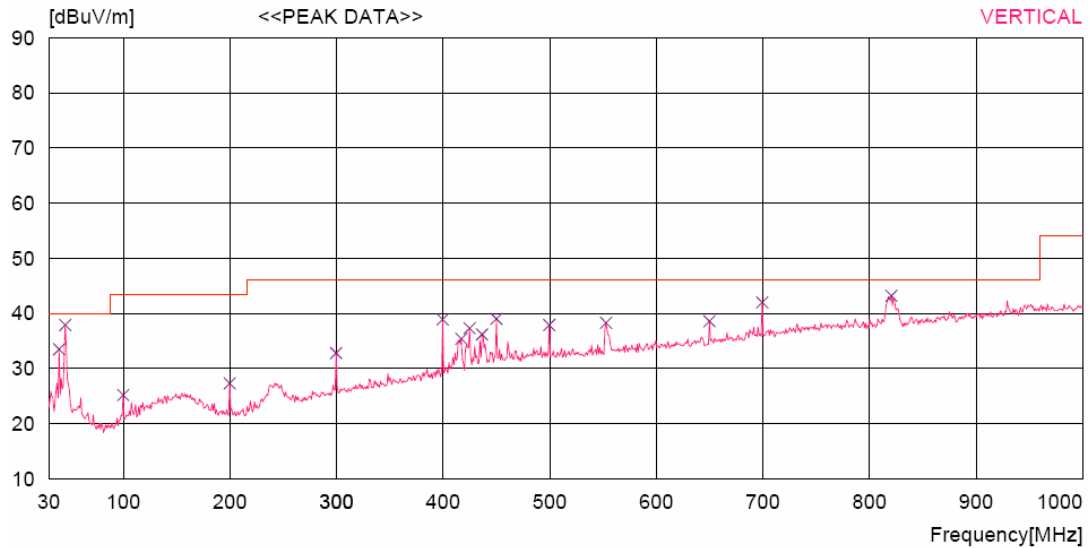
Frequency MHz	Reading dBuV	P (H, V)	Ant. Factor dB	Cable Loss dB	AMP GAIN dB	Total dBuV	Limit dBuV	Margin dB
99.8	14.7	H	8.0	1.4	0.0	24.1	43.5	-19.4
199.8	16.7	H	10.8	2.0	0.0	29.5	43.5	-14.0
299.7	19.7	H	10.9	2.7	0.0	33.3	46.0	-12.7
399.6	18.1	H	13.6	3.2	0.0	34.9	46.0	-11.1
*450.0	17.6	H	16.4	3.6	0.0	37.6	46.0	-8.4
499.5	15.2	H	16.4	3.6	0.0	35.2	46.0	-10.8

Note :

1. Remark "\*" means that the data is the worst emission level.
2. All reading levels are Quasi-peak value.
3. Measurement level = reading level + correct factor

[Applicable]

EUT	NWTAP-100	PROBE	RF 0.3GHz~1GHz-VER
POWER	AC 60V	NOTE	TX-B-CH6



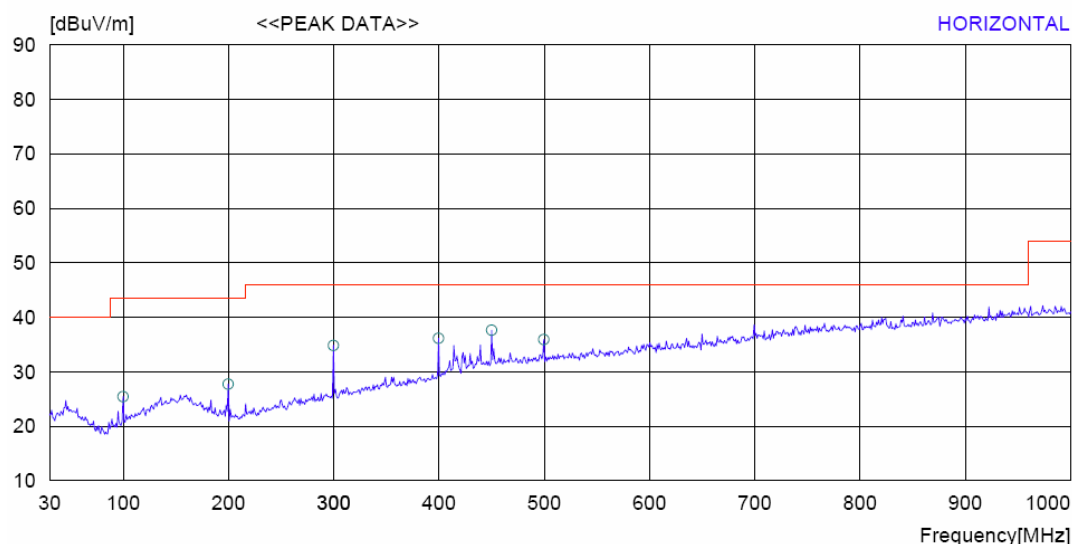
Frequency MHz	Reading dBuV	P (H, V)	Ant. Factor dB	Cable Loss dB	AMP GAIN dB	Total dBuV	Limit dBuV	Margin dB
39.7	21.1	V	11.2	1.0	0.0	33.3	40.0	-6.7
45.5	23.1	V	11.8	1.0	0.0	35.9	40.0	-4.1
99.8	14.5	V	8.0	1.4	0.0	23.9	43.5	-19.6
199.8	16.3	V	10.8	2.0	0.0	29.1	43.5	-14.4
299.7	17.7	V	10.9	2.7	0.0	31.3	46.0	-14.7
399.6	21.2	V	13.6	3.2	0.0	38.0	46.0	-8.0
417.0	16.9	V	14.8	3.3	0.0	35.0	46.0	-11.0
424.8	18.5	V	14.8	3.3	0.0	36.6	46.0	-9.4
436.4	16.9	V	14.8	3.3	0.0	35.0	46.0	-11.0
450.0	19.0	V	16.4	3.6	0.0	39.0	46.0	-7.0
499.5	17.2	V	16.4	3.6	0.0	37.2	46.0	-8.8
552.8	16.6	V	18.2	4.0	0.0	38.8	46.0	-7.2
649.8	15.1	V	18.8	4.3	0.0	38.2	46.0	-7.8
699.3	17.5	V	19.6	4.4	0.0	41.5	46.0	-4.5
*820.5	16.5	V	21.6	4.9	0.0	43.0	46.0	-3.0

Note :

1. Remark "\*" means that the data is the worst emission level.
2. All reading levels are Quasi-peak value.
3. Measurement level = reading level + correct factor

[Applicable]

EUT	NWTAP-100	PROBE	RF 0.3GHz~1GHz-HOR
POWER	AC 60V	NOTE	TX-B-CH11



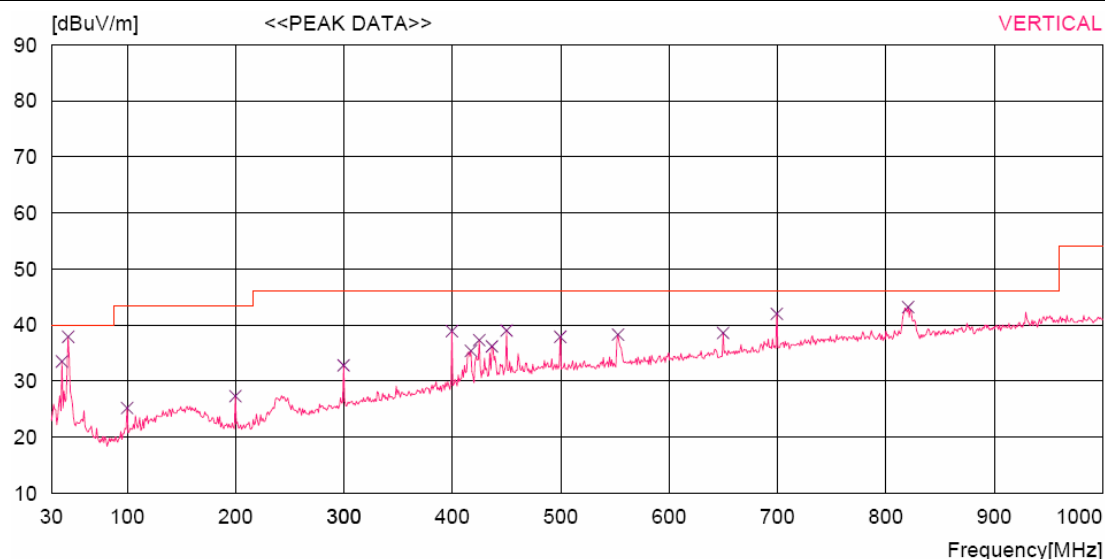
Frequency MHz	Reading dBuV	P (H, V)	Ant. Factor dB	Cable Loss dB	AMP GAIN dB	Total dBuV	Limit dBuV	Margin dB
99.8	14.7	H	8.0	1.4	0.0	24.1	43.5	-19.4
199.8	16.7	H	10.8	2.0	0.0	29.5	43.5	-14.0
299.7	19.7	H	10.9	2.7	0.0	33.3	46.0	-12.7
399.6	18.4	H	13.6	3.2	0.0	35.2	46.0	-10.8
*450.0	17.6	H	16.4	3.6	0.0	37.6	46.0	-8.4
499.5	15.2	H	16.4	3.6	0.0	35.2	46.0	-10.8

Note :

1. Remark "\*" means that the data is the worst emission level.
2. All reading levels are Quasi-peak value.
3. Measurement level = reading level + correct factor

[Applicable]

EUT	NWTAP-100	PROBE	RF 0.3GHz~1GHz-VER
POWER	AC 60V	NOTE	TX-B-CH11



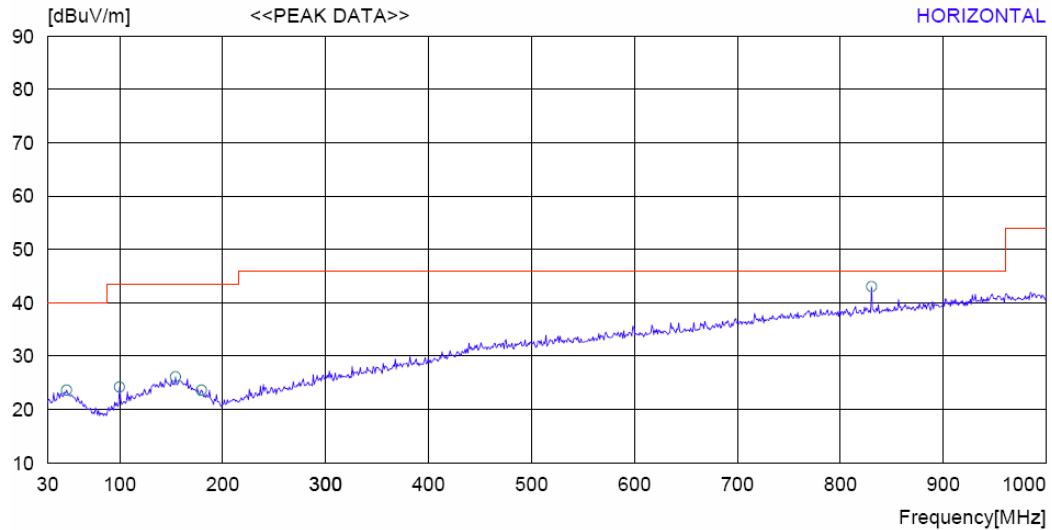
Frequency MHz	Reading dBuV	P (H, V)	Ant. Factor dB	Cable Loss dB	AMP GAIN dB	Total dBuV	Limit dBuV	Margin dB
39.7	21.1	V	11.2	1.0	0.0	33.3	40.0	-6.7
45.5	25.1	V	11.8	1.0	0.0	37.9	40.0	-2.1
99.8	14.5	V	8.0	1.4	0.0	23.9	43.5	-19.6
199.8	16.3	V	10.8	2.0	0.0	29.1	43.5	-14.4
299.7	17.7	V	10.9	2.7	0.0	31.3	46.0	-14.7
399.6	21.2	V	13.6	3.2	0.0	38.0	46.0	-8.0
417.0	16.9	V	14.8	3.3	0.0	35.0	46.0	-11.0
424.8	18.5	V	14.8	3.3	0.0	36.6	46.0	-9.4
436.4	16.9	V	14.8	3.3	0.0	35.0	46.0	-11.0
450.0	19.0	V	16.4	3.6	0.0	39.0	46.0	-7.0
499.5	17.2	V	16.4	3.6	0.0	37.2	46.0	-8.8
552.8	16.6	V	18.2	4.0	0.0	38.8	46.0	-7.2
649.8	15.1	V	18.8	4.3	0.0	38.2	46.0	-7.8
699.3	17.5	V	19.6	4.4	0.0	41.5	46.0	-4.5
*820.5	16.5	V	21.6	4.9	0.0	43.0	46.0	-3.0

Note :

1. Remark "\*" means that the data is the worst emission level.
2. All reading levels are Quasi-peak value.
3. Measurement level = reading level + correct factor

[Applicable]

EUT	NWTAP-100	PROBE	RF 0.3GHz~1GHz-HOR
POWER	AC 60V	NOTE	TX-G-CH1



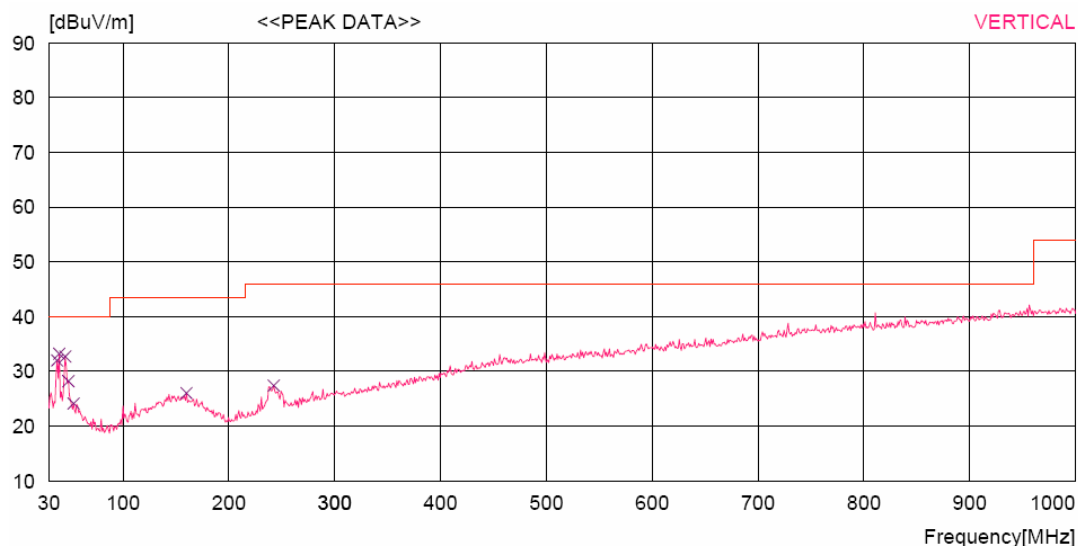
Frequency MHz	Reading dBuV	P (H, V)	Ant. Factor dB	Cable Loss dB	AMP GAIN dB	Total dBuV	Limit dBuV	Margin dB
*830.2	16.6	H	21.6	4.9	0.0	43.1	46.0	-2.9

Note :

1. Remark "\*" means that the data is the worst emission level.
2. All reading levels are Quasi-peak value.
3. Measurement level = reading level + correct factor

[Applicable]

EUT	NWTAP-100	PROBE	RF 0.3GHz~1GHz-VER
POWER	AC 60V	NOTE	TX-G-CH1



Frequency MHz	Reading dBuV	P (H, V)	Ant. Factor dB	Cable Loss dB	AMP GAIN dB	Total dBuV	Limit dBuV	Margin dB
37.8	16.7	V	11.2	1.0	0.0	28.9	40.0	-11.1
*39.7	20.8	V	11.2	1.0	0.0	33.0	40.0	-7.0
45.5	19.9	V	11.8	1.0	0.0	32.7	40.0	-7.3
48.4	15.4	V	11.8	1.0	0.0	28.2	40.0	-11.8
53.3	11.6	V	12.0	1.1	0.0	24.7	40.0	-15.3
160.0	10.7	V	12.7	0.9	0.0	24.3	43.5	-19.2
242.4	14.5	V	9.1	2.2	0.0	25.8	46.0	-20.2

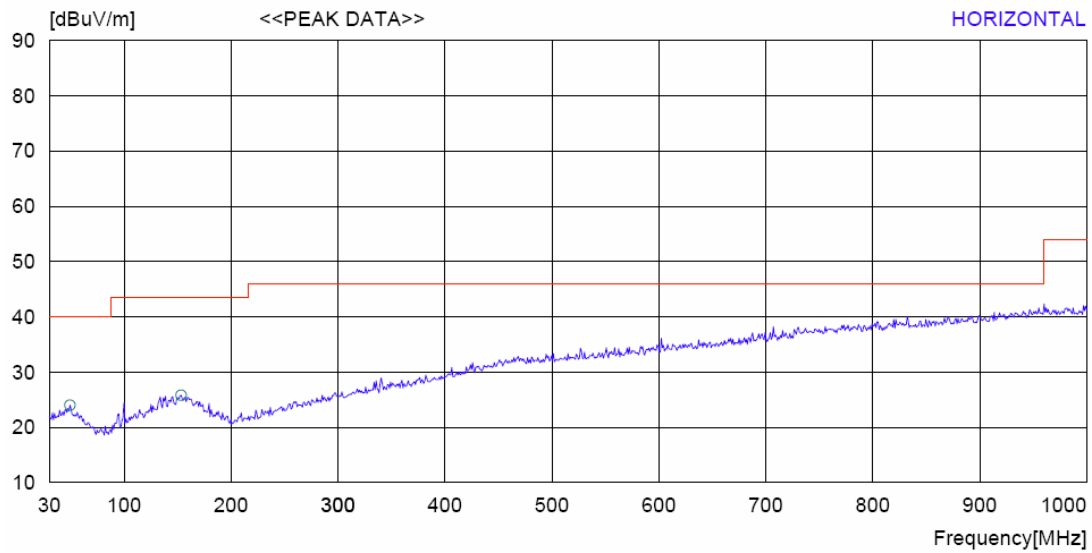
Note :

1. Remark "\*" means that the data is the worst emission level.
2. All reading levels are Quasi-peak value.
3. Measurement level = reading level + correct factor



[Applicable]

EUT	NWTAP-100	PROBE	RF 0.3GHz~1GHz-HOR
POWER	AC 60V	NOTE	TX-G-CH6



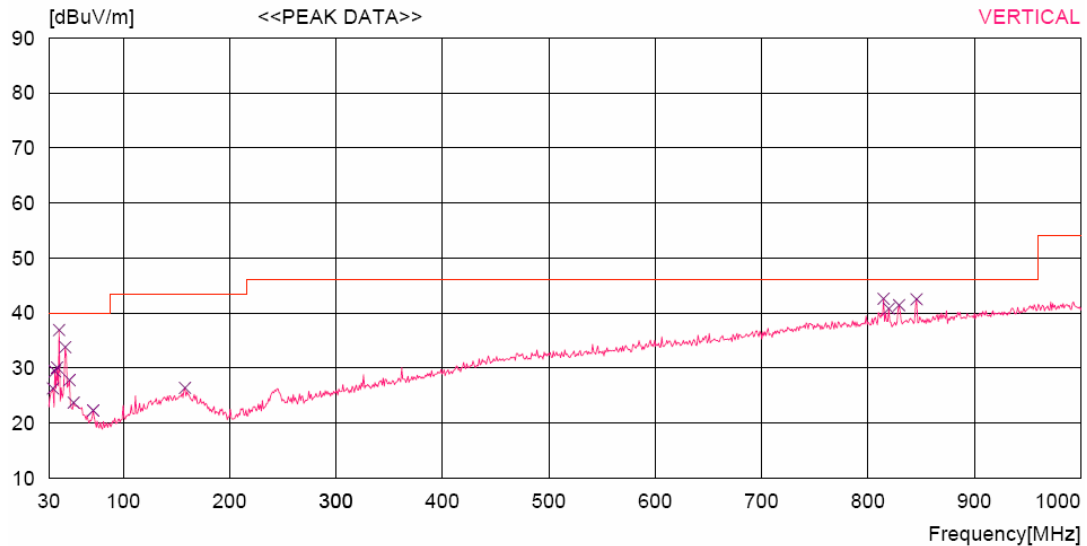
Frequency MHz	Reading dBuV	P (H, V)	Ant. Factor dB	Cable Loss dB	AMP GAIN dB	Total dBuV	Limit dBuV	Margin dB
-	-	-	-	-	-	-	-	-

Note :

1. Remark "\*" means that the data is the worst emission level.
2. All reading levels are Quasi-peak value.
3. Measurement level = reading level + correct factor

[Applicable]

EUT	NWTAP-100	PROBE	RF 0.3GHz~1GHz-VER
POWER	AC 60V	NOTE	TX-G-CH6



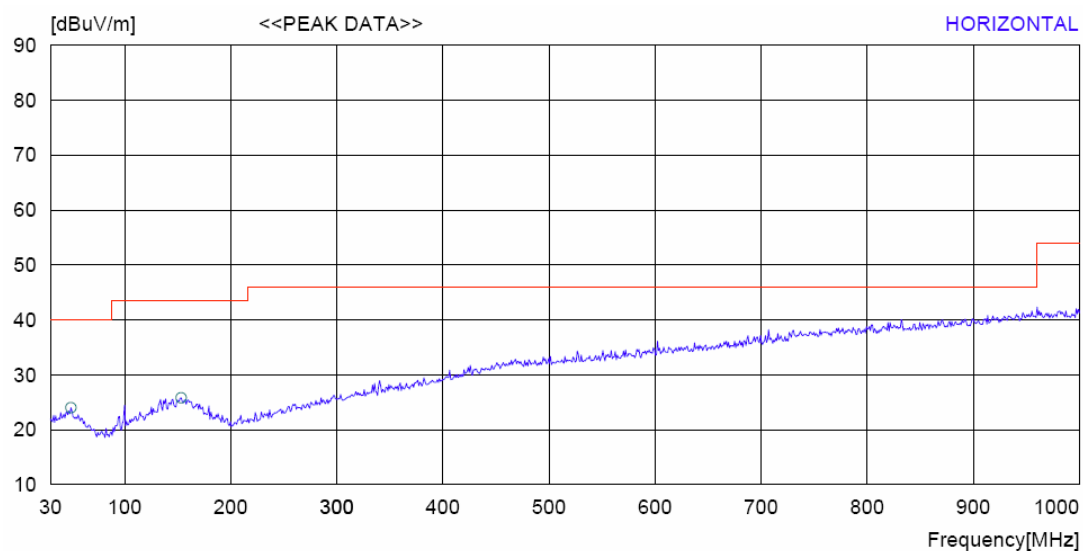
Frequency MHz	Reading dBuV	P (H, V)	Ant. Factor dB	Cable Loss dB	AMP GAIN dB	Total dBuV	Limit dBuV	Margin dB
33.9	14.6	V	11.3	0.6	0.0	26.5	40.0	-13.5
35.8	17.6	V	11.2	1.0	0.0	29.8	40.0	-10.2
37.8	17.9	V	11.2	1.0	0.0	30.1	40.0	-9.9
39.7	24.5	V	11.2	1.0	0.0	36.7	40.0	-3.3
45.5	21.0	V	11.8	1.0	0.0	33.8	40.0	-6.2
49.4	14.9	V	11.8	1.0	0.0	27.7	40.0	-12.3
53.3	11.2	V	12.0	1.1	0.0	24.3	40.0	-15.7
*814.7	16.3	V	21.6	4.9	0.0	42.8	46.0	-3.2
829.3	15.0	V	21.6	4.9	0.0	41.5	46.0	-4.5
845.8	15.9	V	21.6	4.9	0.0	42.4	46.0	-3.6

Note :

1. Remark "\*" means that the data is the worst emission level.
2. All reading levels are Quasi-peak value.
3. Measurement level = reading level + correct factor

[Applicable]

EUT	NWTAP-100	PROBE	RF 0.3GHz~1GHz-HOR
POWER	AC 60V	NOTE	TX-G-CH11



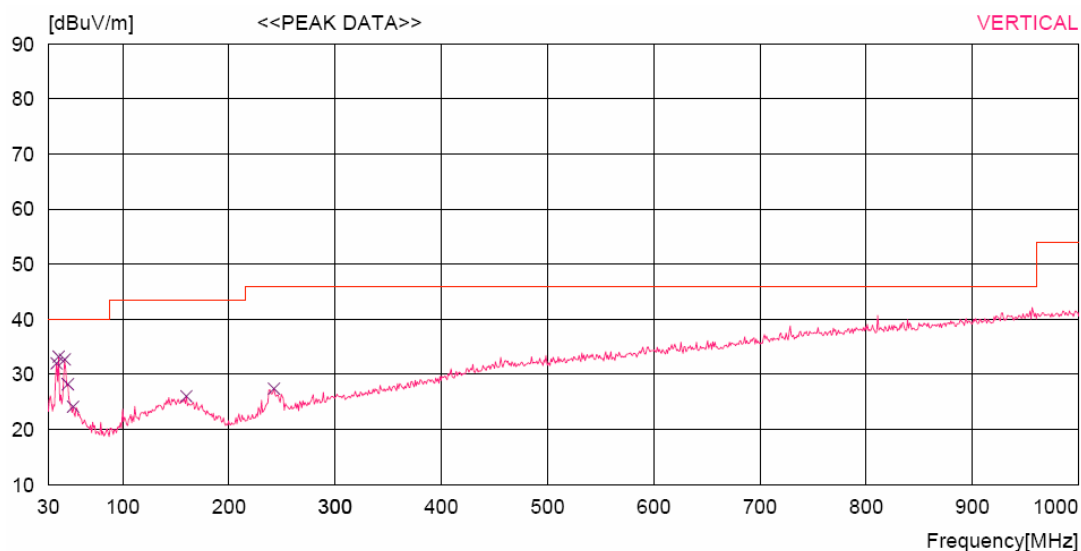
Frequency MHz	Reading dBuV	P (H, V)	Ant. Factor dB	Cable Loss dB	AMP GAIN dB	Total dBuV	Limit dBuV	Margin dB
-	-	-	-	-	-	-	-	-

Note :

1. Remark "\*" means that the data is the worst emission level.
2. All reading levels are Quasi-peak value.
3. Measurement level = reading level + correct factor

[Applicable]

EUT	NWTAP-100	PROBE	RF 0.3GHz~1GHz-VER
POWER	AC 60V	NOTE	TX-G-CH11



Frequency MHz	Reading dBuV	P (H, V)	Ant. Factor dB	Cable Loss dB	AMP GAIN dB	Total dBuV	Limit dB	Margin dB
37.8	19.8	V	11.2	1.0	0.0	32.0	40.0	-8.0
*39.7	20.8	V	11.2	1.0	0.0	33.0	40.0	-7.0
45.5	19.9	V	11.8	1.0	0.0	32.7	40.0	-7.3
48.4	15.4	V	11.8	1.0	0.0	28.2	40.0	-11.8
53.3	11.6	V	12.0	1.1	0.0	24.7	40.0	-15.3

Note :

1. Remark "\*" means that the data is the worst emission level.
2. All reading levels are Quasi-peak value.
3. Measurement level = reading level + correct factor

## BAND EDGE

### TEST Equipment

The following test equipment are used during the test:

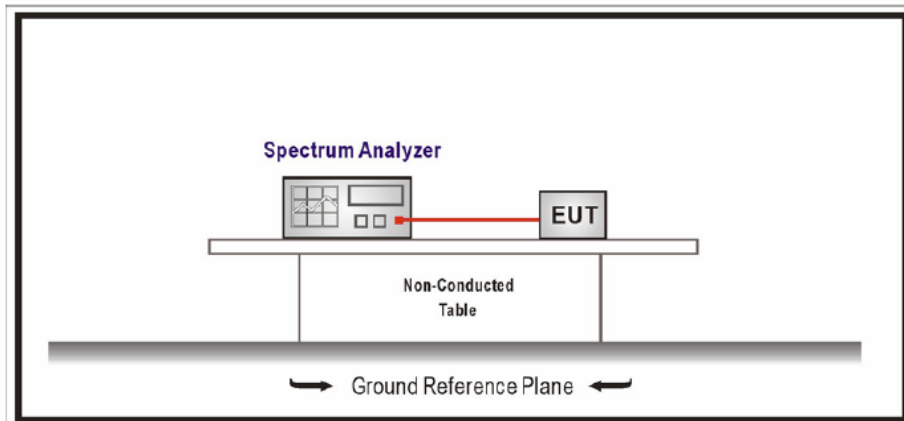
Name	Type	Manufacturer	Calibration. Date	Serial Number
ESCI	Test Receiver	Rohde & Schwarz	May. 23, 2006	100373
SPECTRUM ANALYZER	E7405A	AGILENT	Jan. 08, 2006	MY420000092
BICONILOG Antenna	VULB 9160	Schwarz beck	Aug. 14, 2006	3047
HORN-Antenna	3115	EMCO	Oct. 03, 2005	9012-3602
HORN-Antenna	SAS-571	A.H. SYSTEMS	Apr. 25, 2005	500
PRE AMPLIFIER	8449B OPT H02	Rohde & Schwarz	Oct. 17, 2006	3008A0530

*Note : 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to RRL, KRISS, KTL and HCT.*

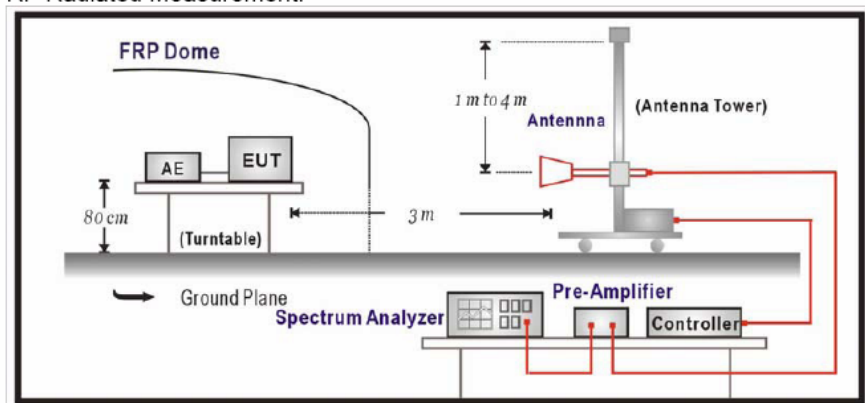
*2. The calibration interval of horn ant. and loop ant. is 24 months*

### Test setup

#### RF Conducted Measurement:



#### RF Radiated Measurement:



#### Limits

In any 100KHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 KHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

Attenuation below the general limits specified in section 15.209(a) is not required. In addition, radiated emission which fall in the restricted bands, as defined in section 15.205(a), must also comply with the radiated emission limits specified in section 15.209(a)(see Section 15.205(c)).

#### Test procedure

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters. The antenna can move up and down between 1 meter and 4 meters to fine out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.4:2003 on radiated measurement.

The bandwidth below 1 GHz setting on the field strength meter is 120 KHz, above 1GHz are 1MHz.

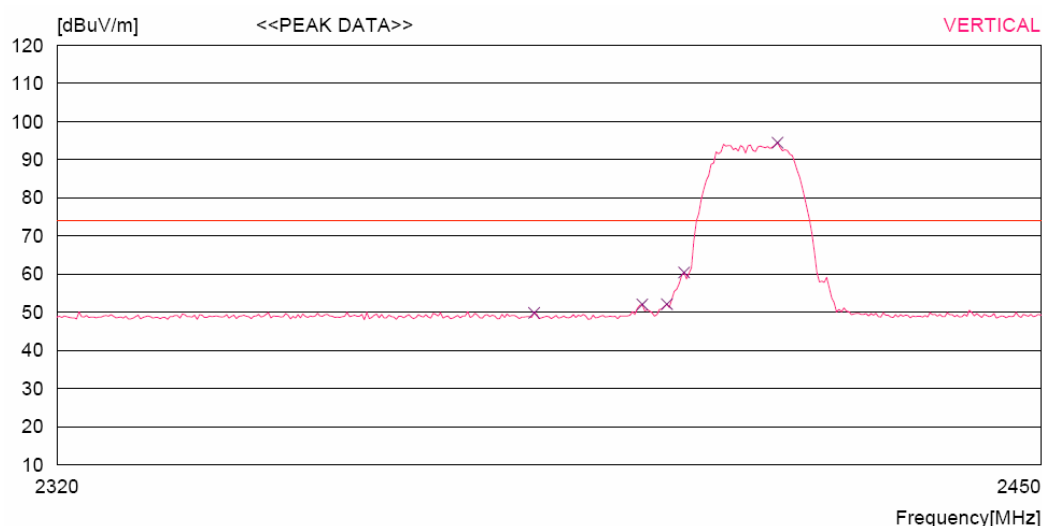
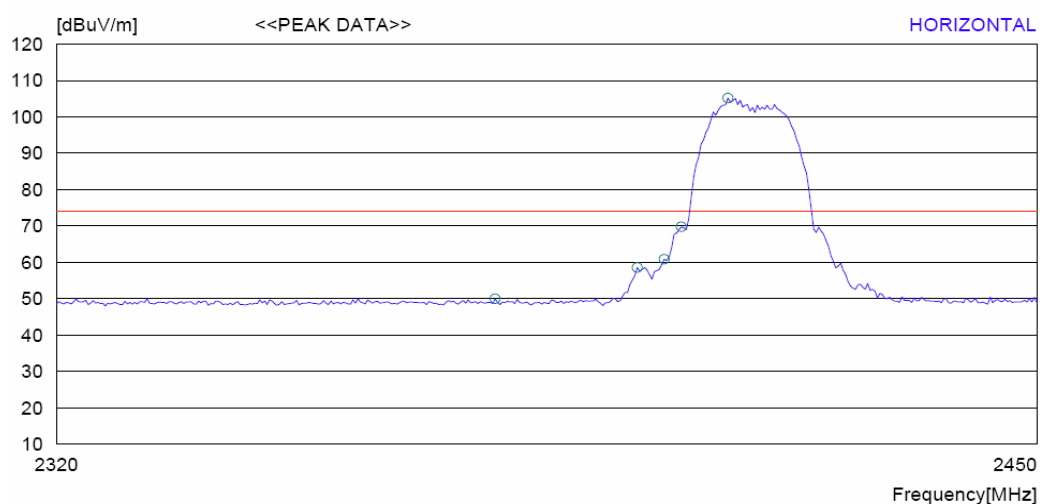
#### Test specification

According to FCC Part 15 Subpart C paragraph 15.247:2005

Test result

Product	Wireless Tap(NWTAP-100)		
Test Item	Band Edge		
Test Mode	Transmit		
Date of Test	Feb.19.2007	Test Site	RF Room

IEEE 802.11b(Peak Detector)									
Channel No.	Frequency (MHz)	Reading (dBuV)	P (H, V)	Ant. Factor dB	Cable Loss dB	AMP GAIN dB	Total dBuV/m	Limit (dBuV/m)	Result
1	2,378.1	50.0	H	8.3	13.7	36.2	35.8	74.0	Pass
	2,397.0	58.6	H	8.3	13.7	36.2	44.4	74.0	Pass
	2,383.0	49.8	V	8.3	13.7	36.2	35.6	74.0	Pass
	2,397.3	52.0	V	8.3	13.7	36.2	37.8	74.0	Pass

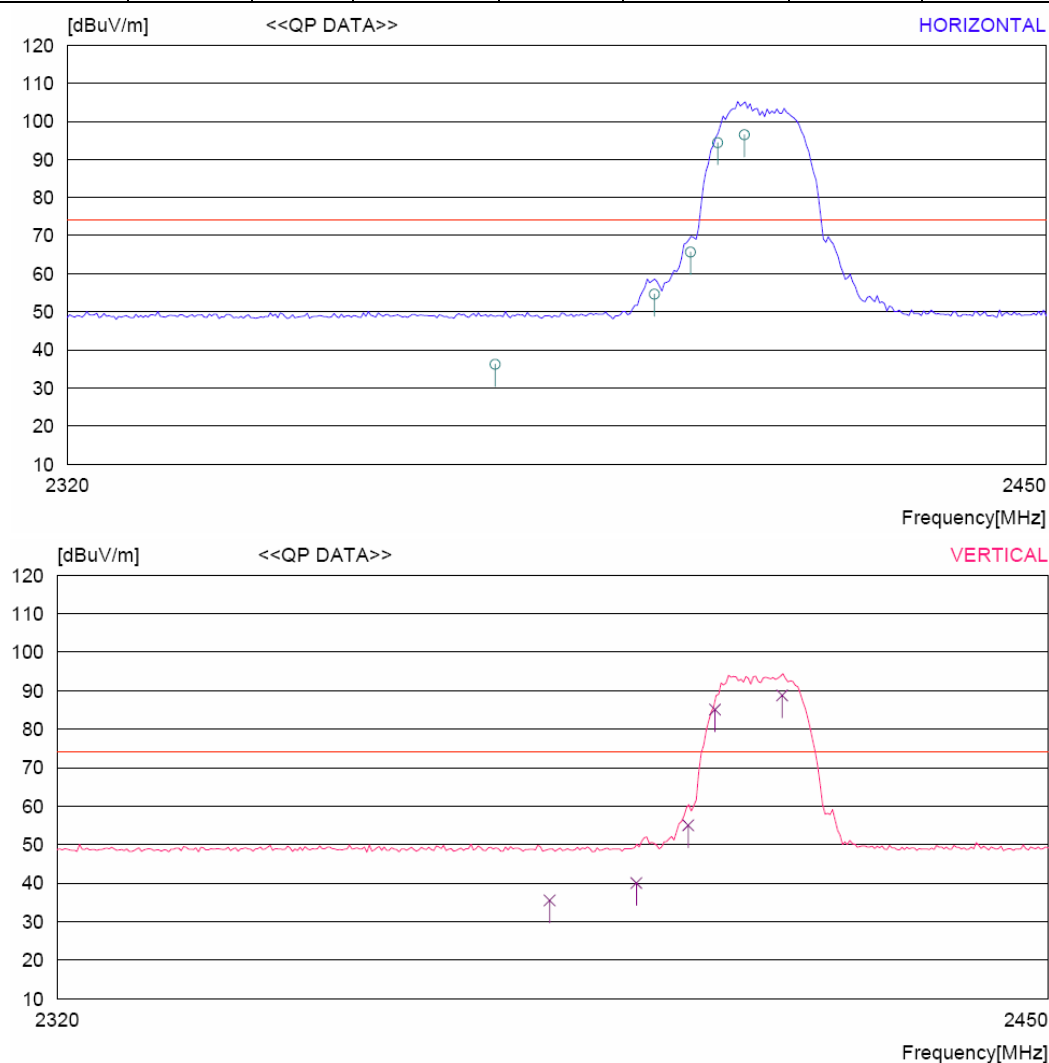


Note: The average measurement was not performed when the peak measured data under the limit of average detection.  
If the readings given are average, peak measurement should also be supplied.

Test result

Product	Wireless Tap(NWTAP-100)		
Test Item	Band Edge		
Test Mode	Transmit		
Date of Test	Feb.19.2007	Test Site	RF Room

IEEE 802.11b(Average Detector)									
Channel No.	Frequency (MHz)	Reading (dBuV)	P (H, V)	Ant. Factor dB	Cable Loss dB	AMP GAIN dB	Total dBuV/m	Limit (dBuV/m)	Result
1	2,376.8	36.2	H	8.3	13.7	36.2	22.0	54.0	Pass
	2,397.9	54.6	H	8.3	13.7	36.2	40.4	54.0	Pass
	2,384.5	35.5	V	8.3	13.7	36.2	21.3	54.0	Pass
	2,395.9	40.0	V	8.3	13.7	36.2	25.8	54.0	Pass



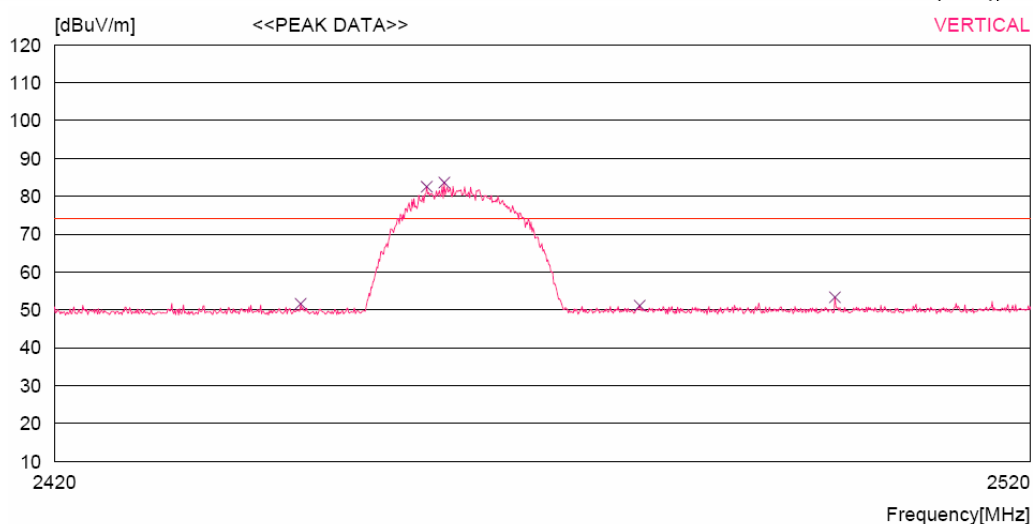
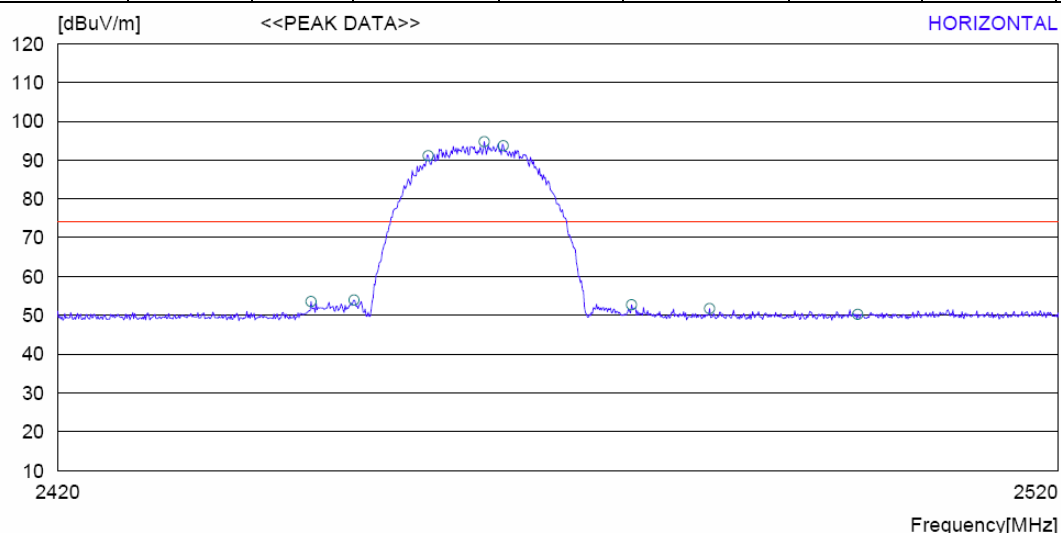
Note: The average measurement was not performed when the peak measured data under the limit of average detection.  
If the readings given are average, peak measurement should also be supplied.



Test result

Product	Wireless Tap(NWTAP-100)		
Test Item	Band Edge		
Test Mode	Transmit		
Date of Test	Feb.19.2007	Test Site	RF Room

IEEE 802.11b(Peak Detector)									
Channel No.	Frequency (MHz)	Reading (dBuV)	P (H, V)	Ant. Factor dB	Cable Loss dB	AMP GAIN dB	Total dBuV/m	Limit (dBuV/m)	Result
11	2,477.3	23.6	H	8.3	13.7	36.2	9.4	74.0	Pass
	2,485.1	22.6	H	8.3	13.7	36.2	8.4	74.0	Pass
	2,479.9	22.0	V	8.3	13.7	36.2	7.8	74.0	Pass
	2,499.9	24.2	V	8.3	13.7	36.2	10.0	74.0	Pass

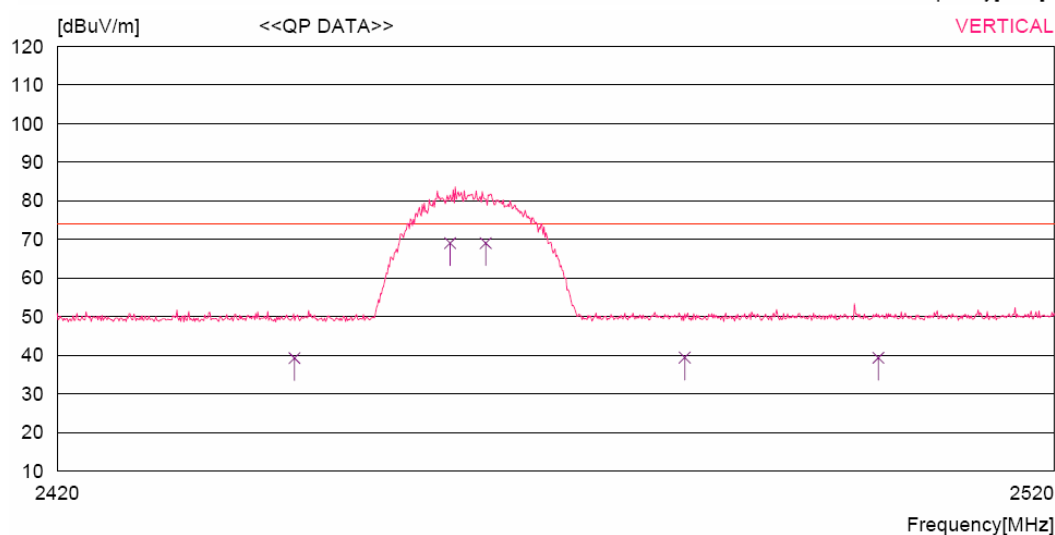
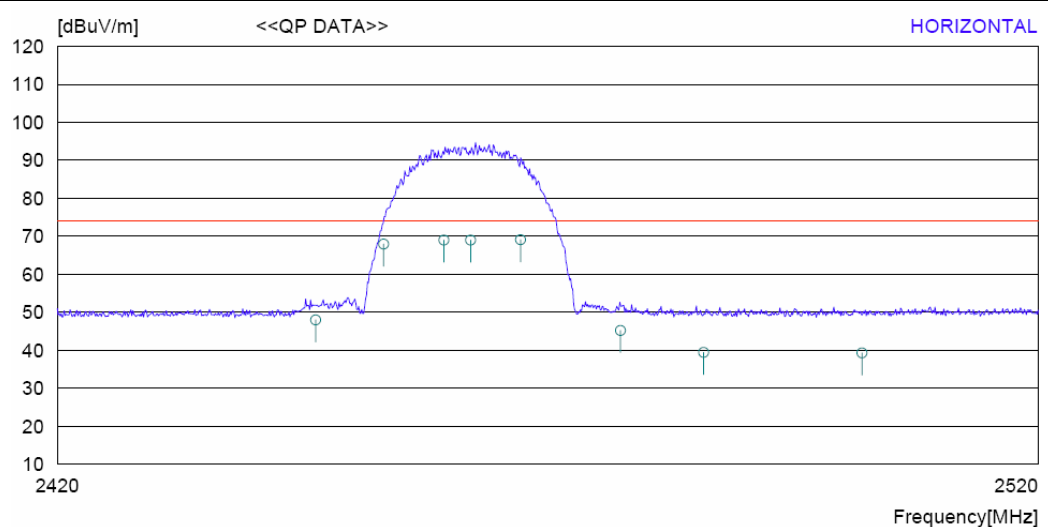


Note: The average measurement was not performed when the peak measured data under the limit of average detection.  
If the readings given are average, peak measurement should also be supplied.

Test result

Product	Wireless Tap(NWTAP-100)		
Test Item	Band Edge		
Test Mode	Transmit		
Date of Test	Feb.19.2007	Test Site	RF Room

IEEE 802.11b(Average Detector)									
Channel No.	Frequency (MHz)	Reading (dBuV)	P (H, V)	Ant. Factor dB	Cable Loss dB	AMP GAIN dB	Total dBuV/m	Limit (dBuV/m)	Result
11	2,485.9	10.3	H	8.3	13.7	36.2	-3.9	54.0	Pass
	2,502.0	10.2	H	8.3	13.7	36.2	-4.0	54.0	Pass
	2,482.9	10.3	V	8.3	13.7	36.2	-3.9	54.0	Pass
	2,502.3	10.2	V	8.3	13.7	36.2	-4.0	54.0	Pass

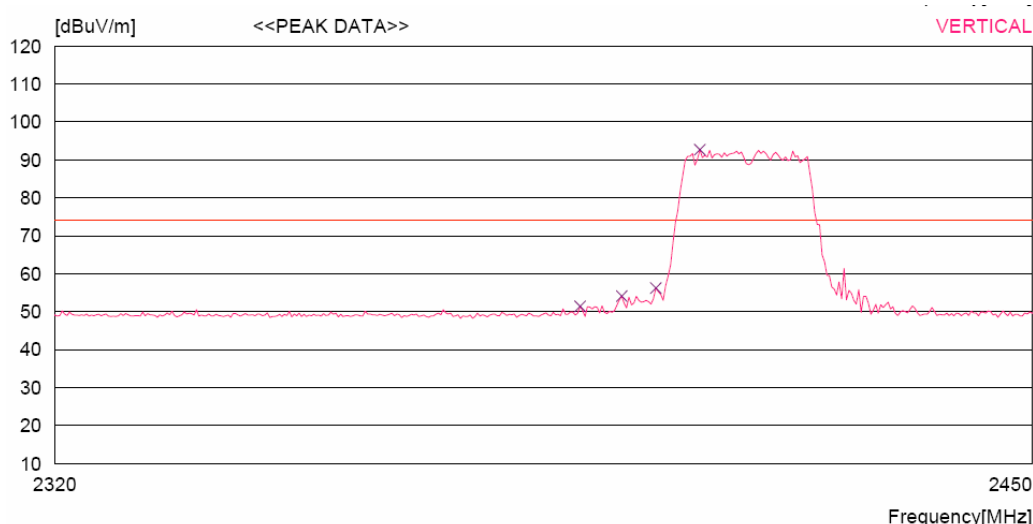
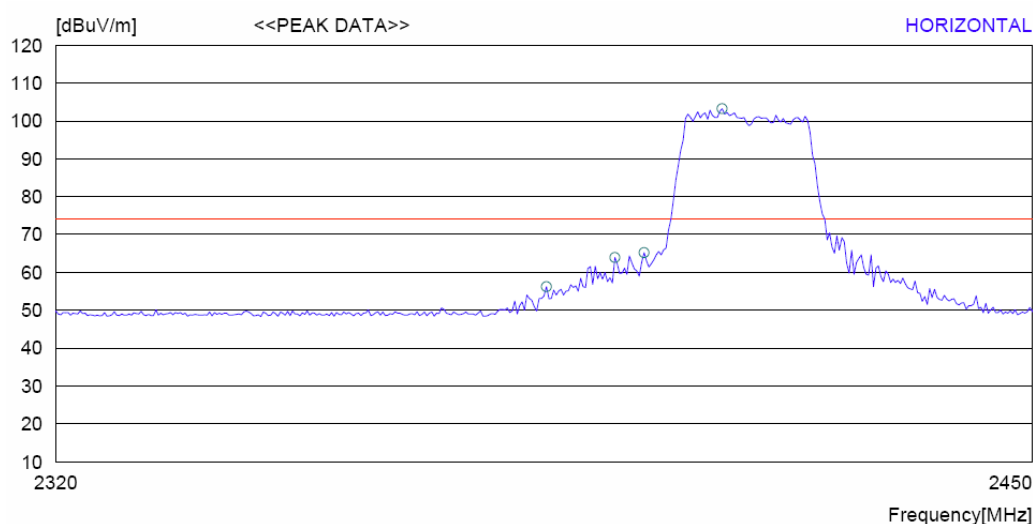


Note: The average measurement was not performed when the peak measured data under the limit of average detection.  
If the readings given are average, peak measurement should also be supplied.

Test result

Product	Wireless Tap(NWTAP-100)		
Test Item	Band Edge		
Test Mode	Transmit		
Date of Test	Feb.20.2007	Test Site	RF Room

IEEE 802.11g(Peak Detector)									
Channel No.	Frequency (MHz)	Reading (dBuV)	P (H, V)	Ant. Factor dB	Cable Loss dB	AMP GAIN dB	Total dBuV/m	Limit (dBuV/m)	Result
1	2,385.3	56.2	H	8.3	13.7	36.2	42.0	74.0	Pass
	2,394.4	63.9	H	8.3	13.7	36.2	49.7	74.0	Pass
	2,389.8	51.4	V	8.3	13.7	36.2	37.2	74.0	Pass
	2,395.3	54.1	V	8.3	13.7	36.2	39.9	74.0	Pass

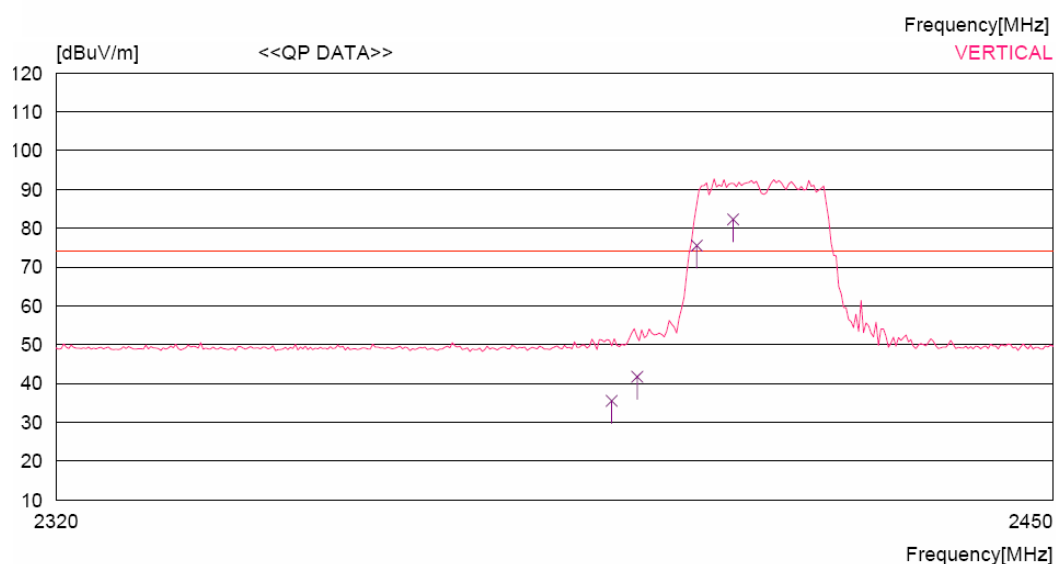
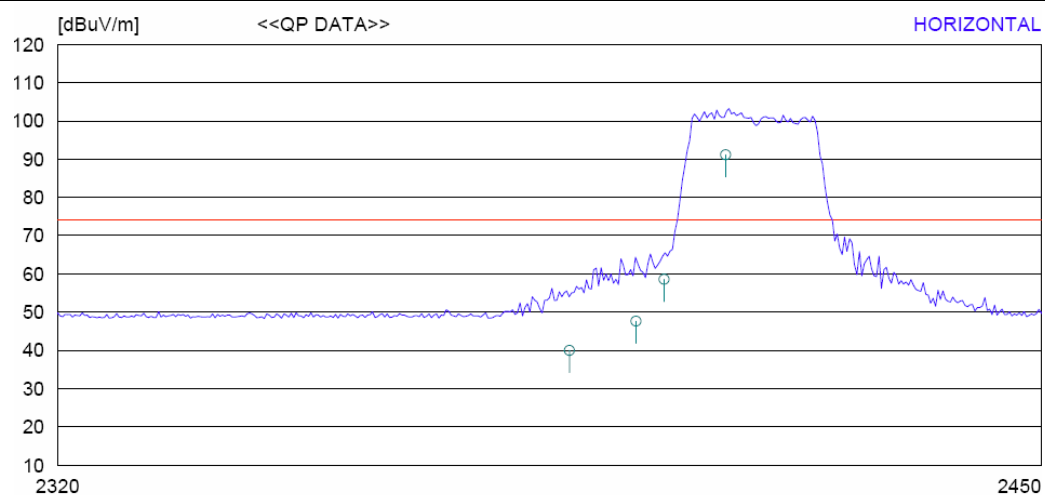


Note: The average measurement was not performed when the peak measured data under the limit of average detection.  
If the readings given are average, peak measurement should also be supplied.

Test result

Product	Wireless Tap(NWTAP-100)		
Test Item	Band Edge		
Test Mode	Transmit		
Date of Test	Feb.20.2007	Test Site	RF Room

IEEE 802.11g(Average Detector)									
Channel No.	Frequency (MHz)	Reading (dBuV)	P (H, V)	Ant. Factor dB	Cable Loss dB	AMP GAIN dB	Total dBuV/m	Limit (dBuV/m)	Result
1	2,387.6	40.0	H	8.3	13.7	36.2	25.8	54.0	Pass
	2,396.4	47.6	H	8.3	13.7	36.2	33.4	54.0	Pass
	2,392.4	35.5	V	8.3	13.7	36.2	21.3	54.0	Pass
	2,395.7	41.7	V	8.3	13.7	36.2	27.5	54.0	Pass

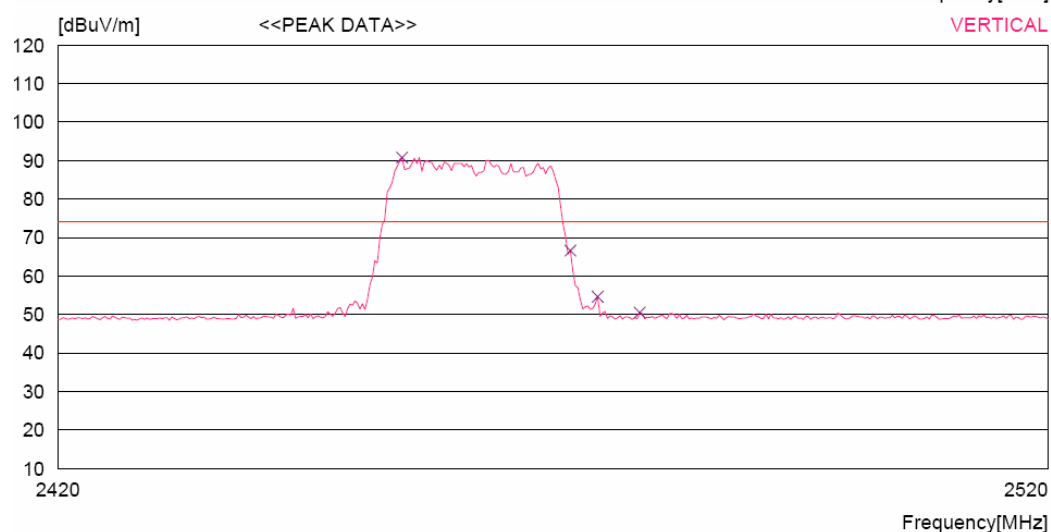
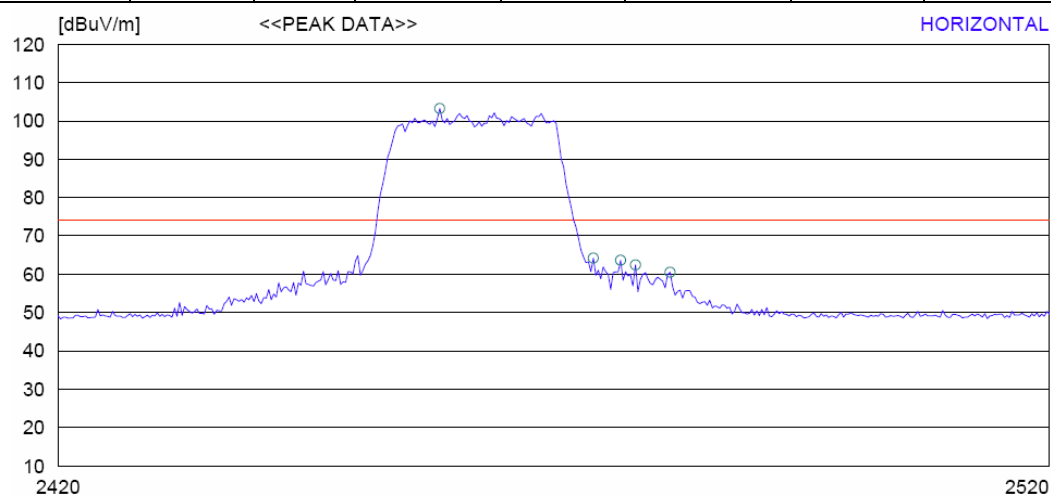


Note: The average measurement was not performed when the peak measured data under the limit of average detection.  
If the readings given are average, peak measurement should also be supplied.

Test result

Product	Wireless Tap(NWTAP-100)		
Test Item	Band Edge		
Test Mode	Transmit		
Date of Test	Feb.20.2007	Test Site	RF Room

IEEE 802.11g(Peak Detector)									
Chann el No.	Frequency (MHz)	Reading (dBuV)	P (H, V)	Ant. Factor dB	Cable Loss dB	AMP GAIN dB	Total dBuV/m	Limit (dBuV/m)	Result
11	2,478.2	62.4	H	8.3	13.7	36.2	48.2	74.0	Pass
	2,481.8	60.5	H	8.3	13.7	36.2	46.3	74.0	Pass
	2,474.5	54.6	V	8.3	13.7	36.2	40.4	74.0	Pass
	2,478.7	50.5	V	8.3	13.7	36.2	36.3	74.0	Pass

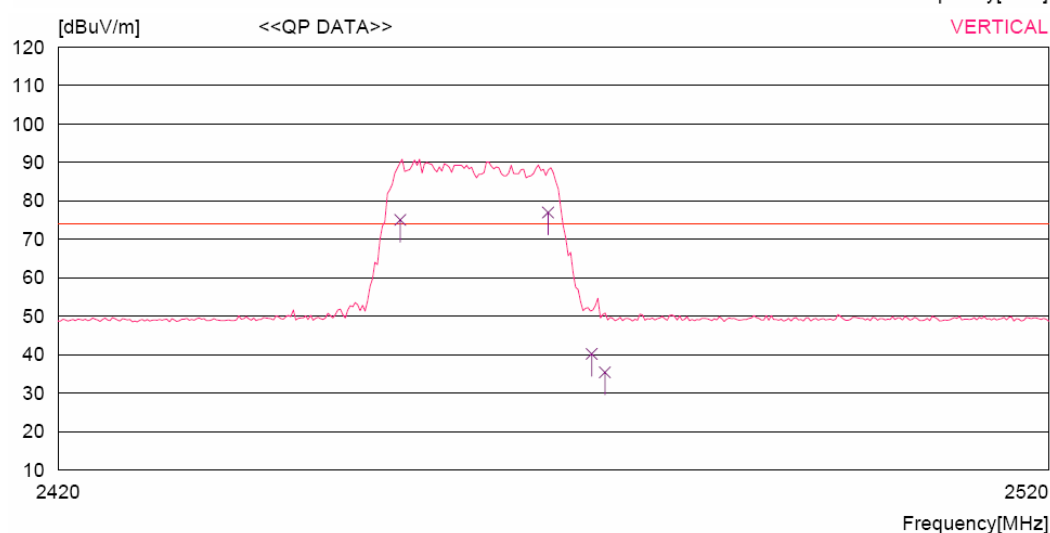
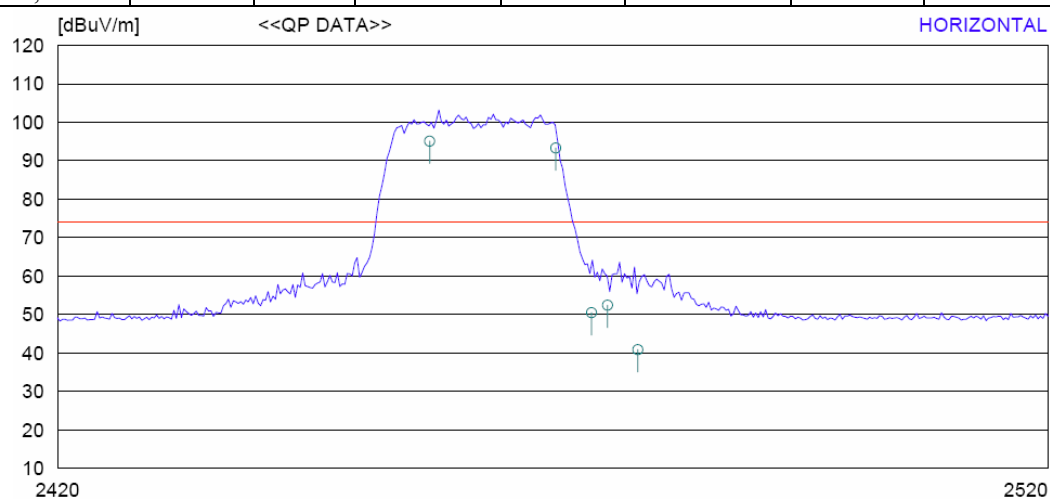


Note: The average measurement was not performed when the peak measured data under the limit of average detection.  
If the readings given are average, peak measurement should also be supplied.

Test result

Product	Wireless Tap(NWTAP-100)		
Test Item	Band Edge		
Test Mode	Transmit		
Date of Test	Feb.20.2007	Test Site	RF Room

IEEE 802.11g(Average Detector)									
Channel No.	Frequency (MHz)	Reading (dBuV)	P (H, V)	Ant. Factor dB	Cable Loss dB	AMP GAIN dB	Total dBuV/m	Limit (dBuV/m)	Result
11	2,473.9	50.5	H	8.3	13.7	36.2	36.3	54.0	Pass
	2,475.5	52.4	H	8.3	13.7	36.2	38.2	54.0	Pass
	2,473.8	40.1	V	8.3	13.7	36.2	25.9	54.0	Pass
	2,475.2	35.4	V	8.3	13.7	36.2	21.2	54.0	Pass



Note: The average measurement was not performed when the peak measured data under the limit of average detection.  
If the readings given are average, peak measurement should also be supplied.

## Occupied Bandwidth

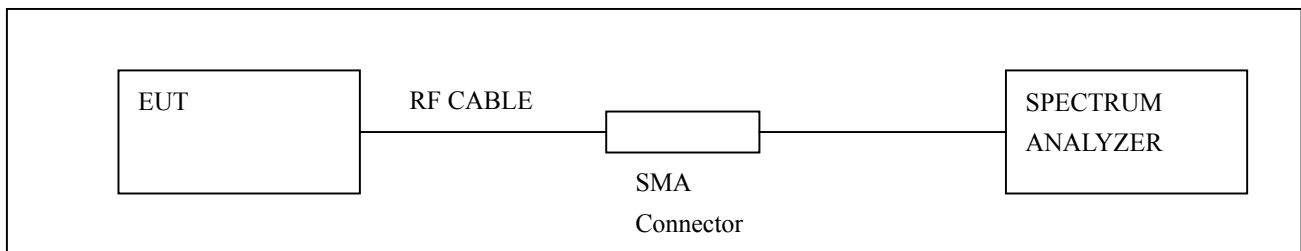
### Test Equipment

The following test equipment are used during the test:

Item	Equipment	Manufacturer	Model no/Serial No.	Last Cal.
1	Spectrum Analyzer	Agilent	E7405A/MY42000092	2006.07.08
2	RF ROOM			

*Note : All equipment upon which need to calibrated are with calibration period of 1 year.*

### Test Setup



### Limits

The minimum 6 dB bandwidth shall be at 500 KHz.

### Test specification

According to FCC CFR Title 47 Part 15 Subpart C Section 15.247:2005

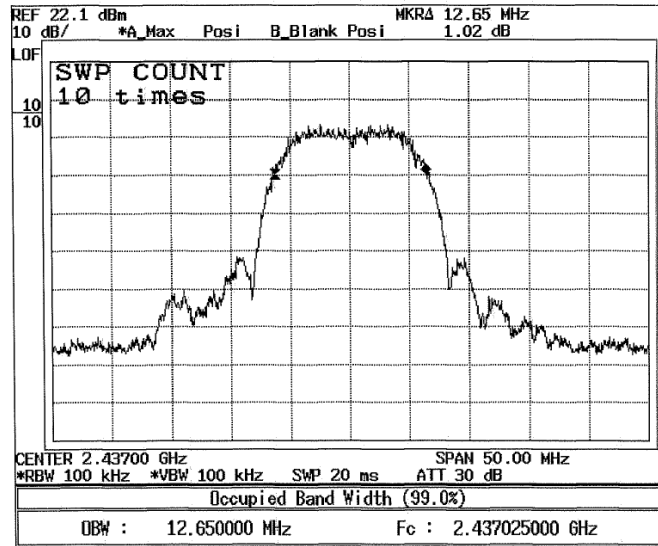
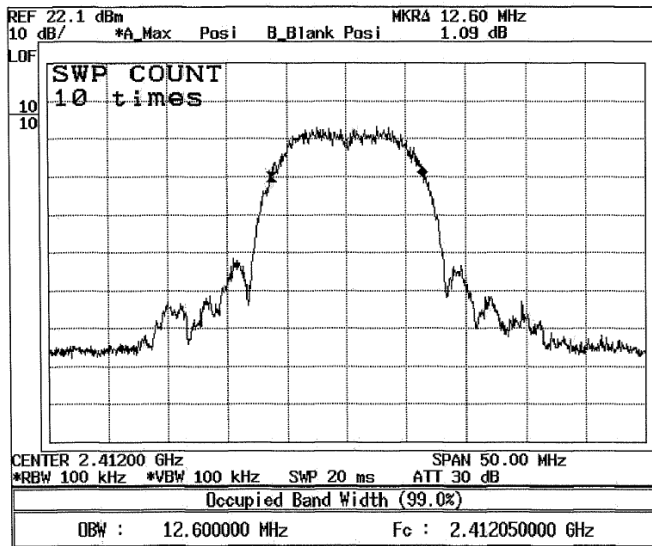
# Test result

Product	Wireless Tap(NWTAP-100)		
Test Item	Occupied Bandwidth		
Test Mode	Transmit		
Date of Test	Feb.21.2007	Test Site	RF Room

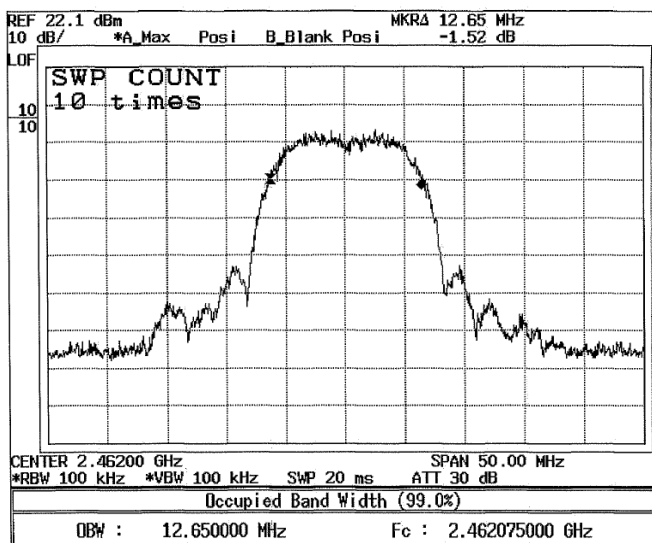
IEEE 802.11b				
Channel No.	Frequency (MHz)	Measure Level (KHz)	Limit (KHz)	Result
1	2412	12600	>500	Pass
6	2437	12650	>500	Pass
11	2462	12650	>500	Pass

Channel 1.

channel 6.



Channel 11





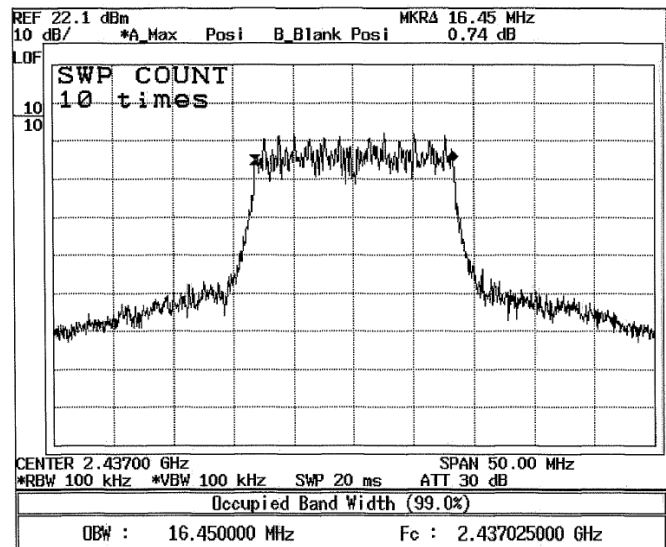
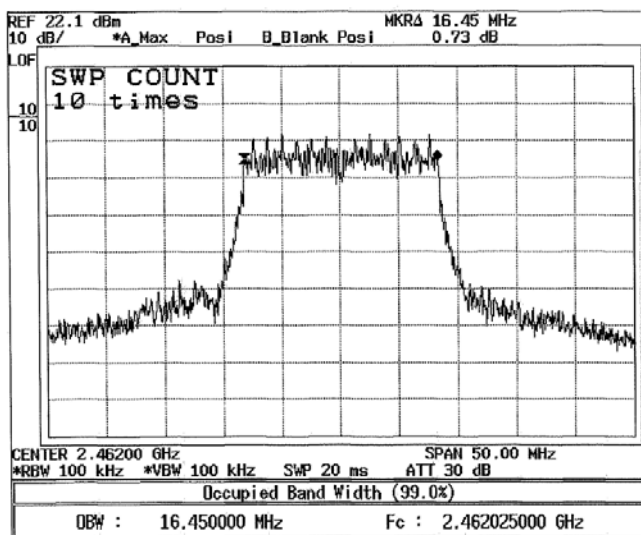
# Test result

Product	Wireless Tap(NWTAP-100)		
Test Item	Occupied Bandwidth		
Test Mode	Transmit		
Date of Test	Feb.21.2007	Test Site	RF Room

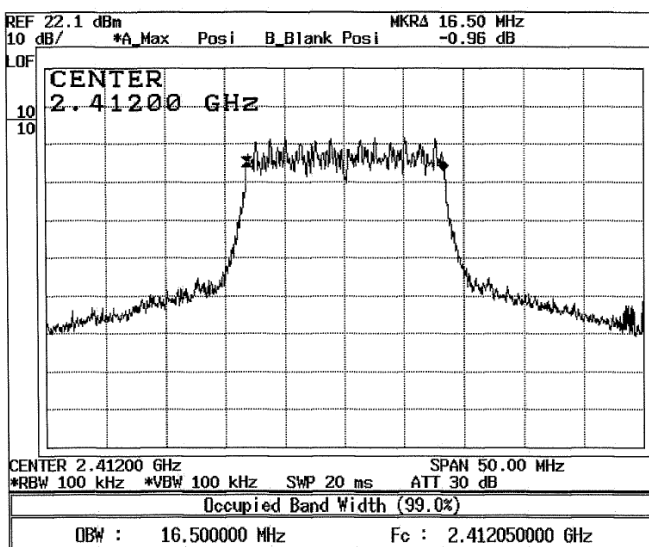
IEEE 802.11g				
Channel No.	Frequency (MHz)	Measure Level (KHz)	Limit (KHz)	Result
1	2412	16450	>500	Pass
6	2437	16450	>500	Pass
11	2462	16500	>500	Pass

Channel 1.

channel 6.



Channel 11



## Power Density

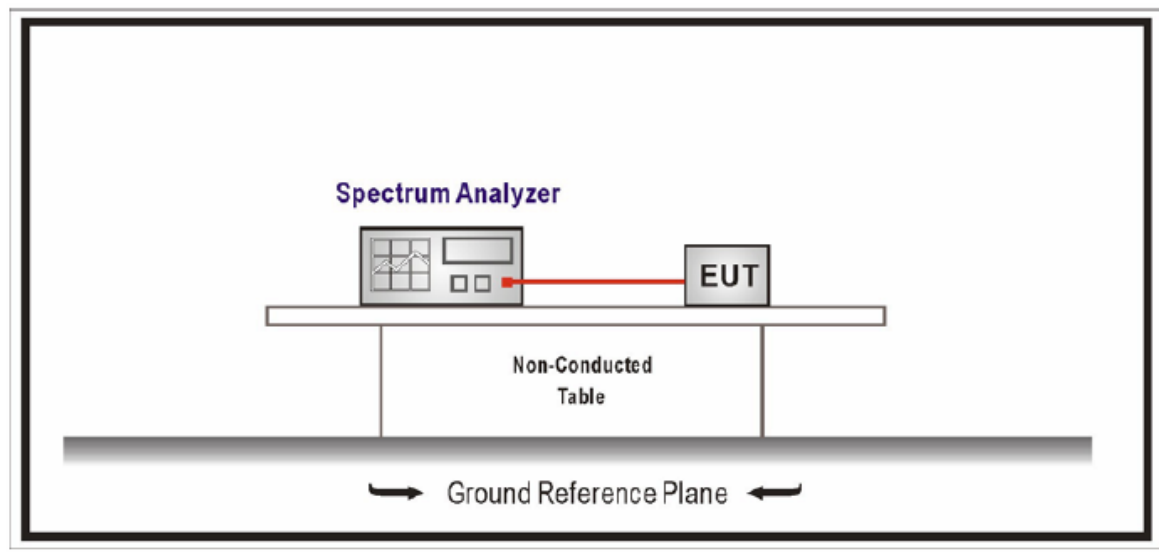
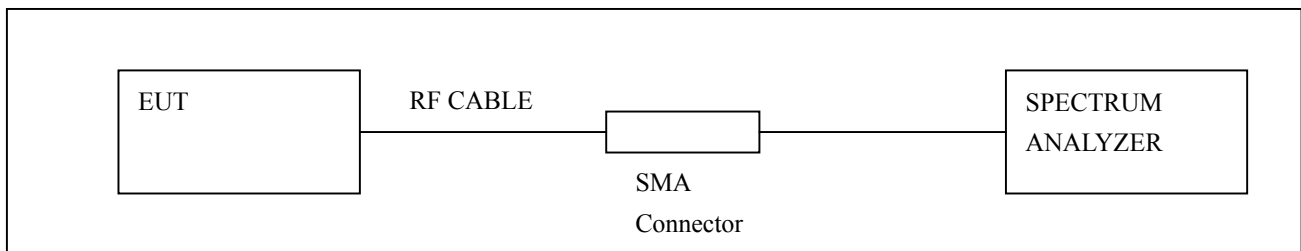
### Test Equipment

The following test equipment are used during the test:

Item	Equipment	Manufacturer	Model no/Serial No.	Last Cal.
1	Spectrum Analyzer	Agilent	E7405A/MY42000092	2006.07.08
2	RF ROOM			

*Note : All equipment upon which need to calibrated are with calibration period of 1 year.*

### Test Setup



### Limits

The peak power spectral density conducted from the intentional radiated to the antenna shall not be greater than +8dBm in any 3 KHz band during any time interval of continuous transmission.

### Test specification

According to FCC CFR Title 47 Part 15 Subpart C Section 15.247:2005

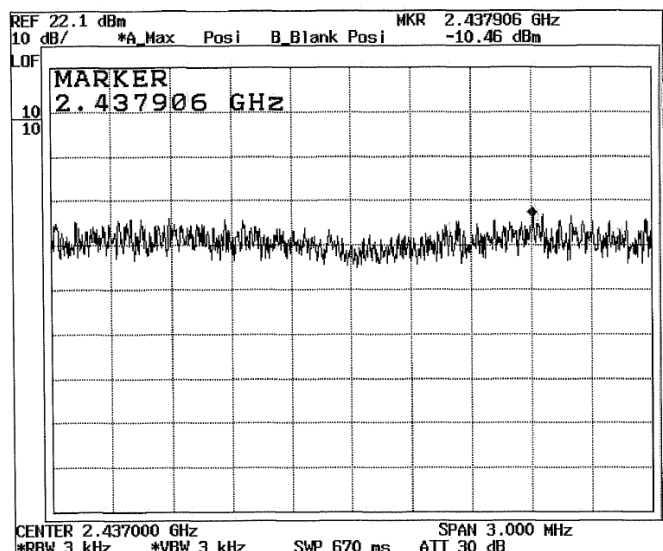
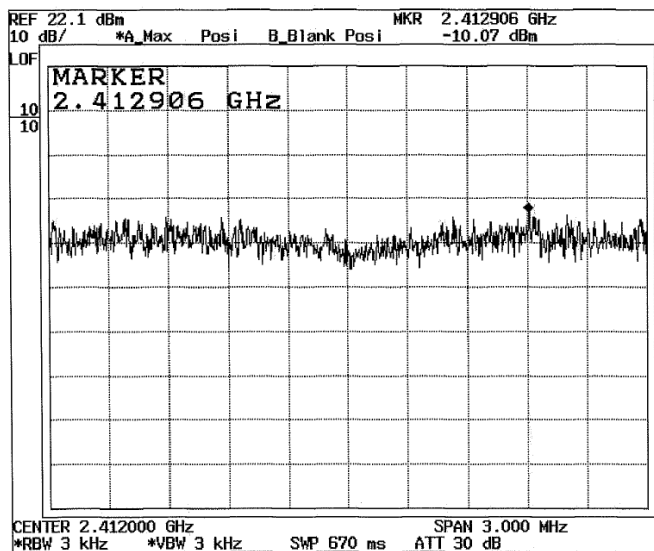
# Test result

Product	Wireless Tap(NWTAP-100)		
Test Item	Power Density		
Test Mode	Transmit		
Date of Test	Feb.22.2007	Test Site	RF Room

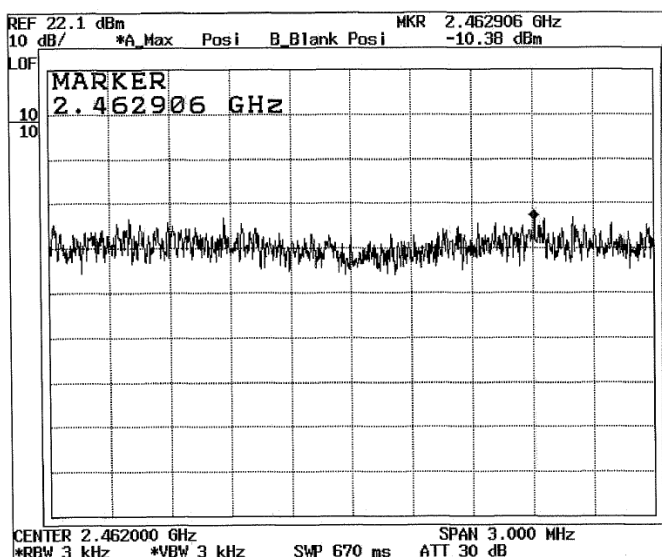
IEEE 802.11b				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	-10.07	< 8	Pass
6	2437	-10.46	< 8	Pass
11	2462	-10.38	< 8	Pass

Channel 1.

channel 6.



Channel 11



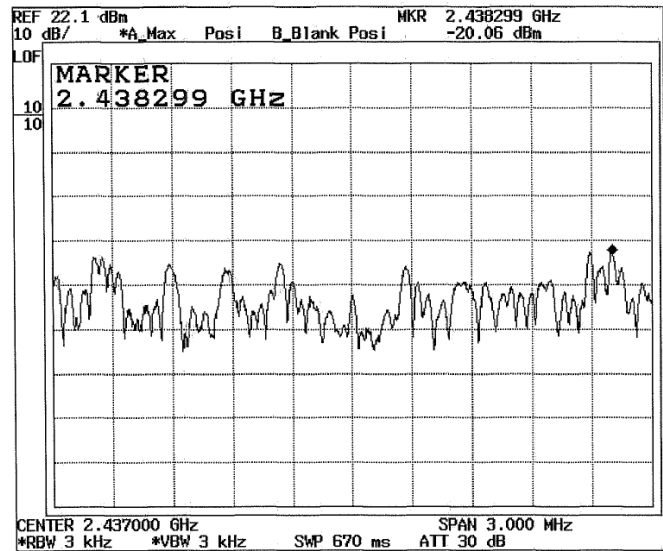
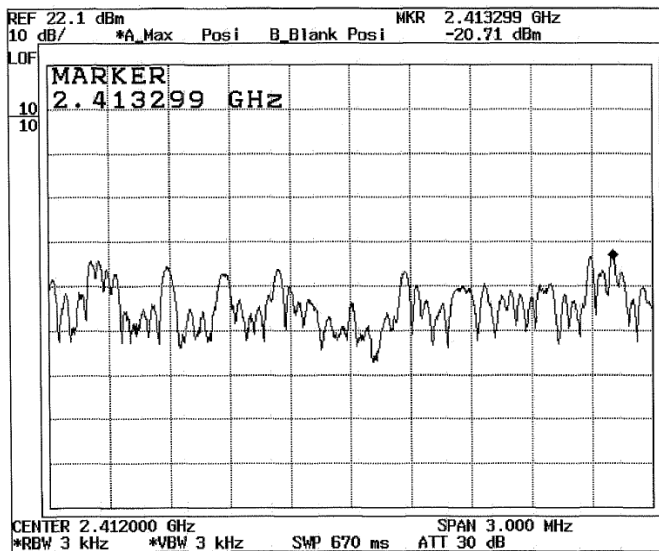
# Test result

Product	Wireless Tap(NWTAP-100)		
Test Item	Power Density		
Test Mode	Transmit		
Date of Test	Feb.22.2007	Test Site	RF Room

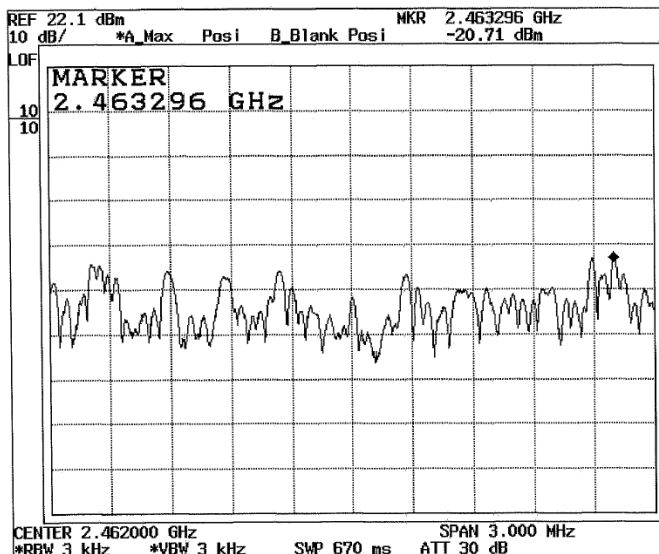
IEEE 802.11g				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	-20.71	< 8	Pass
6	2437	-20.06	< 8	Pass
11	2462	-20.71	< 8	Pass

Channel 1.

channel 6.



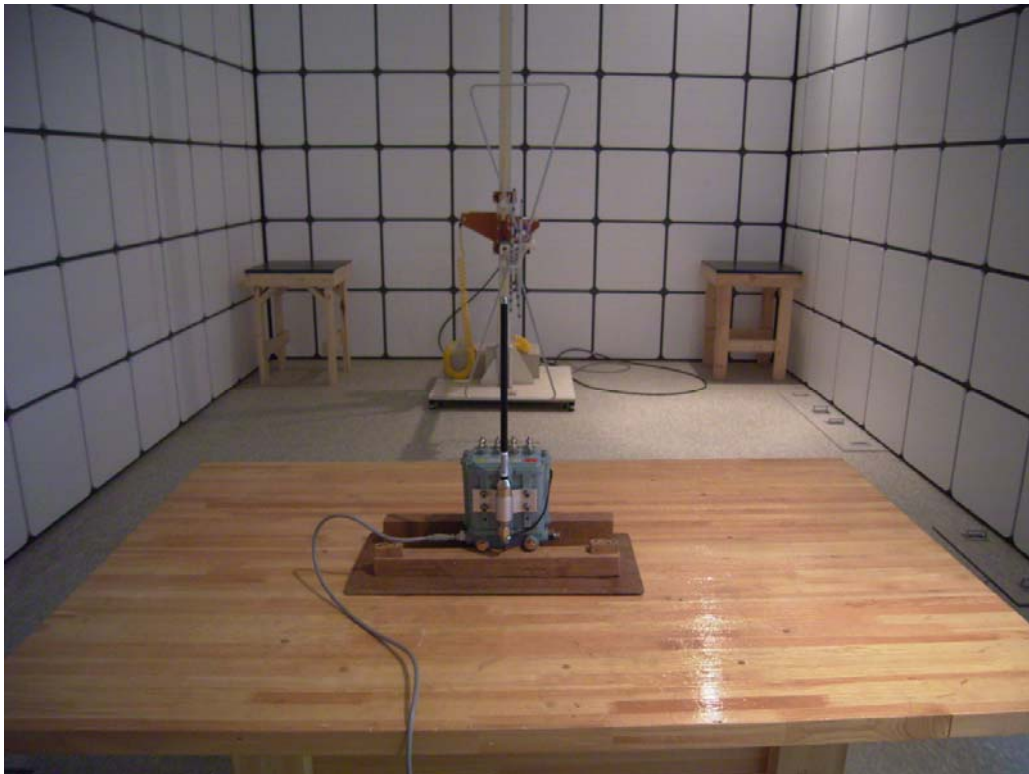
Channel 11



**Appendix A. The Photos of Test Setup**



**Radiated Emissions(30MHz~1000MHz)- Front View**



**Radiated Emissions(30MHz~1000MHz)- Rear View**



**Appendix A. The Photos of Test Setup**



**Radiated Emissions(1000MHz~18000MHz)- Front View**



**Radiated Emissions(1000MHz~18000MHz)- Rear View**

Appendix B. The Photos of Equipment Under Test

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Front View



Rear View