



# FCC TEST REPORT

According to

## FCC Rules and Regulations

### Part 15 Subpart E

Applicant	:	Netgear, Inc.
Address	:	350 East Plumeria Drive San Jose, CA 95134 USA
Equipment	:	RangeMax Dual Band Wireless-N USB Adapter
Model No.	:	WNDA3100v2
FCC ID	:	PY309200107
Trade Name	:	NETGEAR

Laboratory accreditation



- The test result refers exclusively to the test presented test model / sample.,
- The test result does not include DFS test for 5250 ~ 5350 MHz.
- Without written approval of **Cerpass Technology Corp.**, the test report shall not be reproduced except in full.
- 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.



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# CERTIFICATE OF COMPLIANCE

According to

## FCC Rules and Regulations

### Part 15 Subpart E

Applicant : Netgear, Inc.  
Address : 350 East Plumeria Drive San Jose, CA 95134 USA  
Equipment : RangeMax Dual Band Wireless-N USB Adapter  
Model No. : WNDA3100v2  
FCC ID : PY309200107

#### I HEREBY CERTIFY THAT :

The measurements shown in this test report were made in accordance with the procedures given in **ANSI C63.4** The equipment was **passed** the test performed according to **FCC Rules and Regulations Part 15 Subpart E (2003)**.

The test was carried out on Apr. 08, 2009 at Cerpass Technology Corp.

Signature

  
Anson Chou  
EMC/RF B.U. Vice General Manager



## 1. Report of Measurements and Examinations

### 1.1. List of Measurements and Examinations

For Frequency 5.15GHz ~ 5.25GHZ

Applied Standard : FCC Part 15, Subpart E (Section 15.407)		
FCC Rule	Description of Test	Result
15.407(b)(5)	. Conducted Emission	Pass
15.407(b/1/2/3)(b)(5)	. Radiated Emission	Pass
15.407(a/1/2/3)	. Peak Transmit Power	Pass
15.407(a)(6)	. Peak Power Excursion	Pass
15.407(a/1/2/3)	. Peak Power Spectral Density	Pass
15.407(g)	. Frequency Stability	Pass



## 2. Test Configuration of Equipment under Test

### 2.1. Feature of Equipment under Test

Antenna	2 integrated internal wireless antennas
Standards	802.11a, 802.11n draft 2.0, 802.11g or 802.11b
Radio Data Rate	1, 2, 5.5, 6, 9, 11, 12, 18, 24, 36, 48, 54, 08, 140, 246 and 300Mbps (Auto Rate Sensing)
Frequency	2.4GHz to 2.5GHz CCK and OFDM Modulation ; 5GHz
Power	5V Bus powered
Bus interface	USB 2.0
Provided drivers	Microsoft Vista, Windows XP
Operating Environment	Operating temperature: 0 to 40°C
Encryption	40-bit (also called 64-bit) and 128-bit WEP data encryption and WPA-PSK
Warranty	Limited 1-year warranty
Smart Wizard	Enabled
Wireless	
Wireless Communication	Enabled
Wireless Network Name (SSID)	Any (will connect to first wireless network that responds)
Security	Disabled
Network Type	Infrastructure
Transmission Speed	Auto

### 2.2. Carrier Frequency of Channels

802.11a, 802.11an HT20 (5150 ~ 5250MHz)

Channel	Frequency(MHz)	Channel	Frequency(MHz)
36	5180	48	5240
44	5220	---	---

802.11a, 802.11an HT20 (5250 ~ 5350 MHz)

Channel	Frequency(MHz)	Channel	Frequency(MHz)
56	5280	64	5320
60	5300	---	---

802.11a, 802.11an HT20 (5470 ~ 5725 MHz)

Channel	Frequency(MHz)	Channel	Frequency(MHz)
100	5500	140	5700
120	5600	---	---



802.11 an HT40 (5150 ~ 5250MHz)

Channel	Frequency(MHz)	Channel	Frequency(MHz)
38	5190	46	5230
42	5210	---	---

802.11 an HT40 (5250 ~ 5350MHz)

Channel	Frequency(MHz)	Channel	Frequency(MHz)
54	5270	62	5310
58	5290	---	---

802.11 an HT40 (5470 ~ 5725MHz)

Channel	Frequency(MHz)	Channel	Frequency(MHz)
102	5510	134	5670
118	5590	---	---



### 2.3. Test Mode and Test Software

- a. During testing, the interface cables and equipment positions were varied according to ANSI C63.4.
- b. The complete test system included remote workstation, PC, Monitor, Mouse, Keyboard, Modem, Printer and EUT for EMI test. The remote workstation included Notebook.
- c. An executive program, "Ping.exe" under WIN XP, which transmits and receives data to the remote workstation through Wireless.
- d. The following test modes were performed for test:

Test Mode 1: EUT with PC

- 802.11a/an, HT20: CH 36: 5180MHz, CH 44: 5220MHz, CH 48: 5240MHz
- 802.11a/an, HT20: CH 56: 5280MHz, CH 60: 5300MHz, CH 64: 5320MHz
- 802.11a/an, HT20: CH 100: 5500MHz, CH 120: 5600MHz, CH 140: 5700MHz
- 802.11an, HT40: CH 38: 5190MHz, CH 46: 5230MHz
- 802.11an, HT40: CH 54: 5270MHz, CH 62: 5310MHz
- 802.11an, HT40: CH 102: 5510MHz, CH 118: 5590MHz, CH 134: 5670MHz

Test Mode 2: EUT with USB cable

- 802.11a/an, HT20: CH 36: 5180MHz, CH 44: 5220MHz, CH 48: 5240MHz
- 802.11a/an, HT20: CH 56: 5280MHz, CH 60: 5300MHz, CH 64: 5320MHz
- 802.11a/an, HT20: CH 100: 5500MHz, CH 120: 5600MHz, CH 140: 5700MHz
- 802.11an, HT40: CH 38: 5190MHz, CH 46: 5230MHz
- 802.11an, HT40: CH 54: 5270MHz, CH 62: 5310MHz
- 802.11an, HT40: CH 102: 5510MHz, CH 118: 5590MHz, CH 134: 5670MHz

### 2.4. Description of Test System

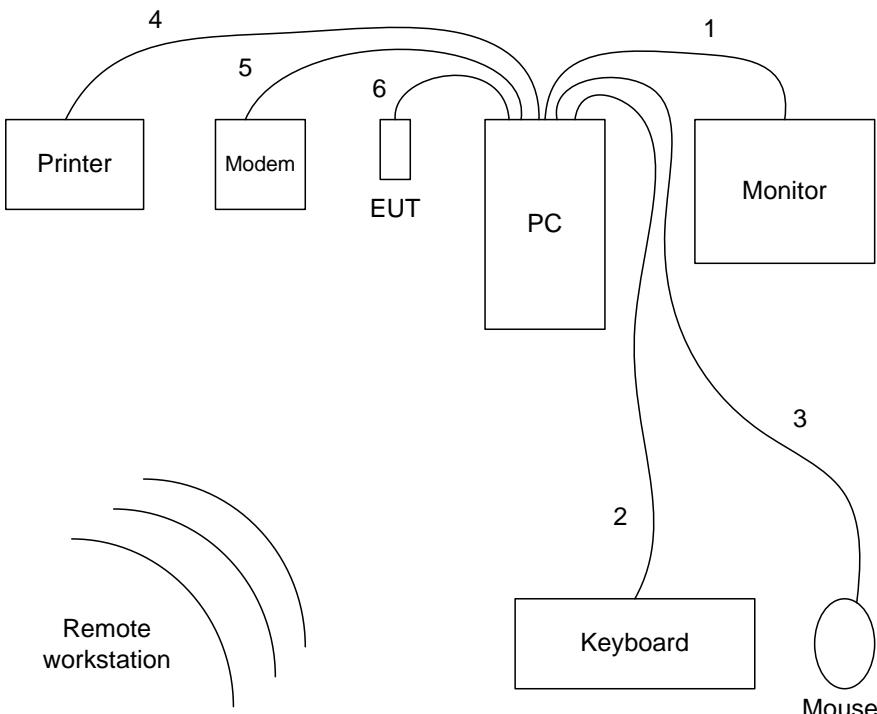
Device	Manufacturer	Model No.	Description
PC	IBM	IGV	Power Cable, Unshielding 1.8 m
Monitor	SlimAGE	510A	Data Cable, VGA Shielding 1.35 m Power Cable, Adapter Unshielding 1.8 m
Keyboard	IBM	KB-0225	Data Cable, PS2 Shielding 1.35 m
Mouse	IBM	MO28VO	Data Cable, USB Shielding 1.85 m
Modem	ACEXX	DM-1414	Data Cable, RS232 Unshielding 1.35 m Power Cable, Adapter Unshielding 1.8 m
Printer	HP	Desk Jet 400	Data Cable, PRINT Unshielding 1.6 m Power Cable, Adapter Unshielding 1.8 m
Notebook (Remote Workstation)	DELL	PP10L	Power Cable, Adapter Unshielding 1.8 m

Use Cable:

Cable	Quantity	Description
USB	1	Shielding, 1.0m



## 2.5. Connection Diagram of Test System



1. The VGA cable is connected from PC to the Monitor.
  2. The PS/2 cable is connected from PC to the Keyboard.
  3. The USB cable is connected from PC to the Mouse.
  4. The Print cable is connected from PC to the Printer.
  5. The RS232 cable is connected from PC to the Modem.
  6. The USB cable is connected from PC to the EUT.
- \* The EUT keeps to transmit and receive data via Notebook by Wireless.



## 2.6. General Information of Test

Test Site :	Cerpass Technology Corp. 2F-11, No. 3, Yuan Qu St., (Nankang Software Park), Taipei, Taiwan 115, R.O.C.
Test Site Location (OATS1-SD):	No. 7-2, Moshihkeng, Fongtian Village, Shihding Township, Taipei County, Taiwan, R.O.C.
FCC Registration Number :	TW1049, 982971
IC Registration Number :	4934C-1
VCCI Registration Number :	T-338 for Telecommunication Test C-2188 for Conducted emission test R-1902 for Radiated emission test
Test Voltage:	AC 120V/ 60Hz
Test in Compliance with:	ANSI C63.4-2003 FCC Part 15 Subpart E
Frequency Range Investigated:	AC Power Conducted Emission : from 150kHz to 30 MHz Radiated and conducted Emission: from 30 MHz to 40 GHz
Test Distance:	The test distance of radiated emission from antenna to EUT is 3 M.



## **2.7. History of this test report**

■ ORIGINAL.

Additional attachment as following record:



### 3. Antenna Requirements

#### 3.1. 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 15.407 (a), 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.

#### 3.2. Antenna Construction and Directional Gain

Antenna R: PCB Antenna, 1.9 dBi (5GHz Band)

Antenna L: PCB Antenna, 2.5 dBi (5GHz Band)

Note:

1. For the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 50 mW or  $4 \text{ dBm} + 10\log B$ , where B is the 26-dB emission bandwidth in MHz. In addition, the peak power spectral density shall not exceed 4 dBm in any 1-MHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
2. For the band 5.725-5.825 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 1 W or  $17 \text{ dBm} + 10\log B$ , where B is the 26-dB emission bandwidth in MHz. In addition, the peak power spectral density shall not exceed 17 dBm in any 1-MHz band.

If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain up to 23 dBi without any corresponding reduction in the transmitter peak output power or peak power spectral density.

For fixed, point-to-point U-NII transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in peak transmitter power and peak power spectral density for each 1 dB of antenna gain in excess of 23 dBi would be required.

Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.



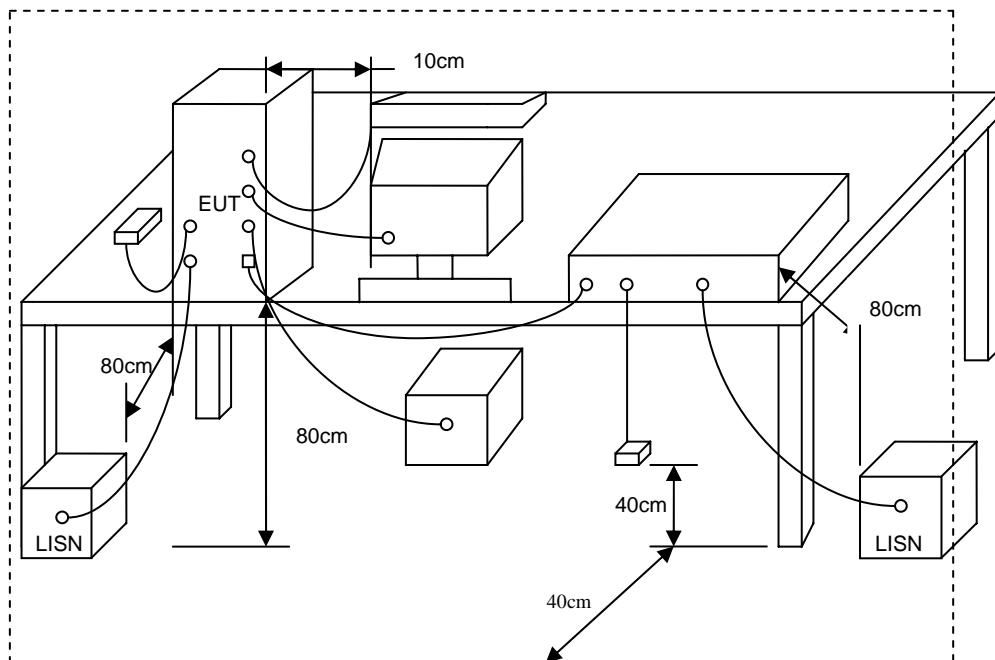
## 4. Test of Conducted Emission

Conducted Emissions were measured from 150 kHz to 30 MHz with a bandwidth of 9 KHz on the 120 VAC power and return leads of the EUT according to the methods defined in ANSI C63.4-2003 Section 3.1. The EUT was placed on a nonmetallic stand in a shielded room 0.8 meters above the ground plane as shown in section 1.3.1. The interface cables and equipment positioning were varied within limits of reasonable applications to determine the position produced maximum conducted emissions.

### 4.1. Test Procedures

- a. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- b. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- c. All the support units are connecting to the other LISN.
- d. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- e. The FCC states that a 50 ohm, 50 micro-Henry LISN should be used.
- f. Both sides of AC line were checked for maximum conducted interference.
- g. The frequency range from 150 kHz to 30 MHz was searched.
- h. Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

### 4.2. Typical Test Setup Layout of Conducted Emission





#### 4.3. Conducted Emission Requirement

Conducted Emissions were measured from 150 kHz to 30 MHz with a bandwidth of 9 KHz on the 120 VAC power and return leads of the EUT according to the methods defined in ANSI C63.4-2003 Section 3.1. The EUT was placed on a nonmetallic stand in a shielded room 0.8 meters above the ground plane as shown in section 2.2. The interface cables and equipment positioning were varied within limits of reasonable applications to determine the position produced maximum conducted emissions.

Frequency (MHz)	Quasi Peak (dB $\mu$ V)	Average (dB $\mu$ V)
0.15 – 0.5	66-56*	56-46*
0.5 – 5.0	56	46
5.0 – 30.0	60	50

\*Decreases with the logarithm of the frequency.

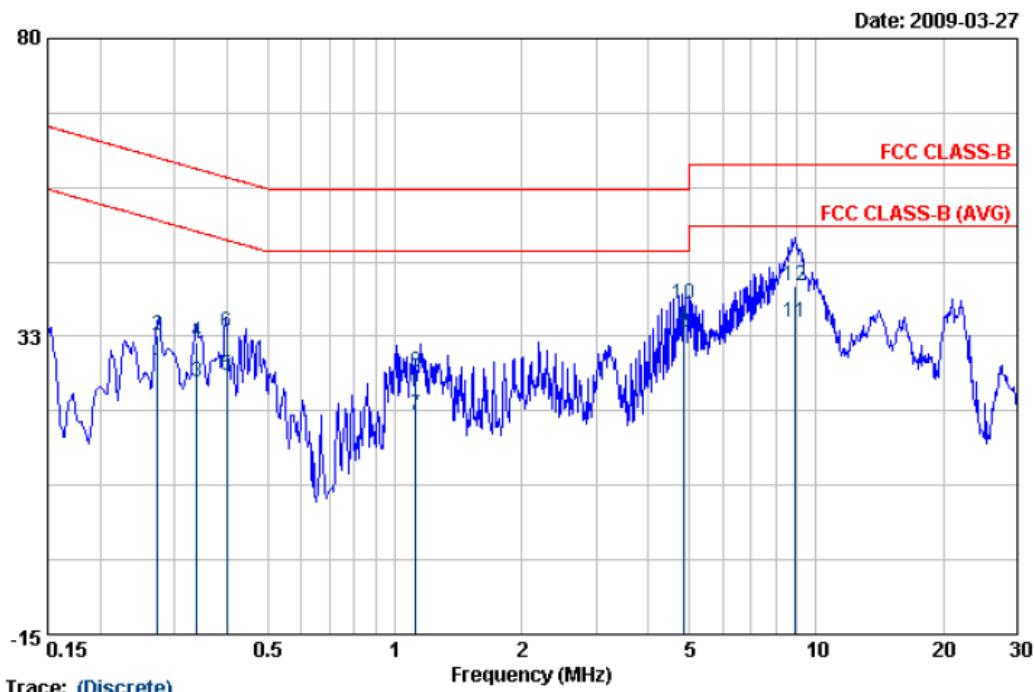
#### 4.4. Measurement Equipment

Instrument/Ancillary	Model No.	Manufacturer	Serial No.	Calibration Date	Valid Date.
EMI Receiver	R&S	ESCI	100443	2008/09/27	2009/09/26
LISN	MESS TEC	NNB-2/16Z	02/10191	2008/05/14	2009/05/13
LISN	ROLF HEINE	NNB-2/16Z	03/10058	2008/04/19	2009/04/18



#### 4.5. Test Result and Data

Power	:	AC 120V	Pol/Phase	:	LINE
Test Mode	:	802.11a, CH36	Temperature	:	23 °C
Memo	:	EUT with PC	Humidity	:	52 %

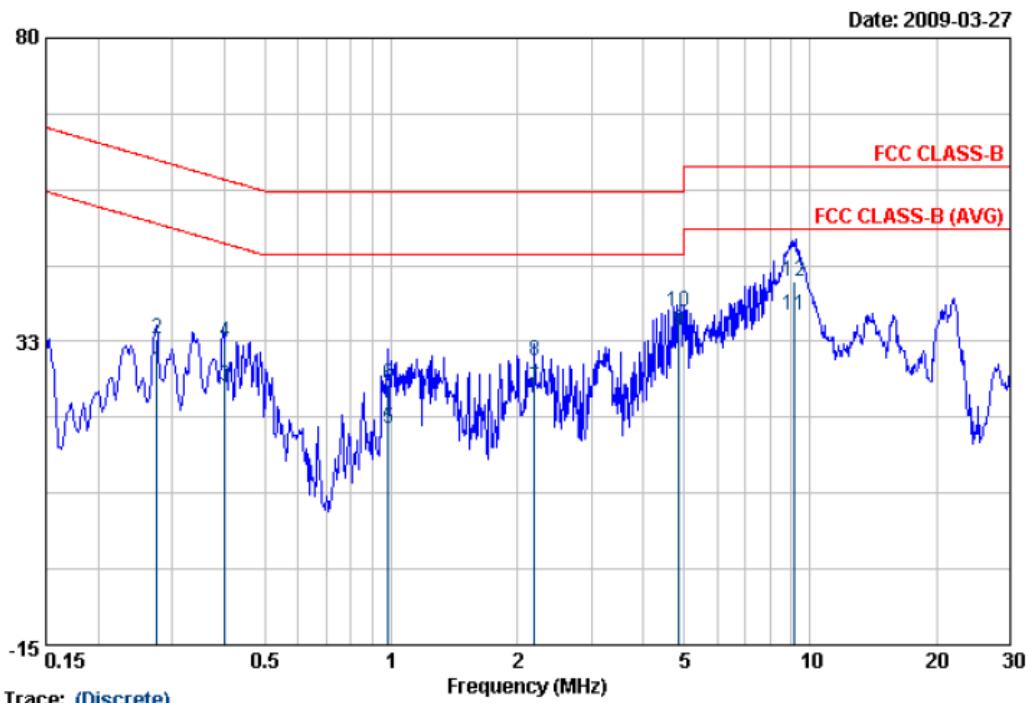


##### Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. According to technical experiences, all spurious emission of 802.11an HT20 mode at channel 149,157,165 are almost the same below 1GHz, so that the channel 149 was chosen as representative in final test.
5. The data is worse case.



Power	: AC 120V	Pol/Phase	: NEUTRAL
Test Mode	: 802.11a, CH36	Temperature	: 23 °C
Memo	: EUT with PC	Humidity	: 52 %



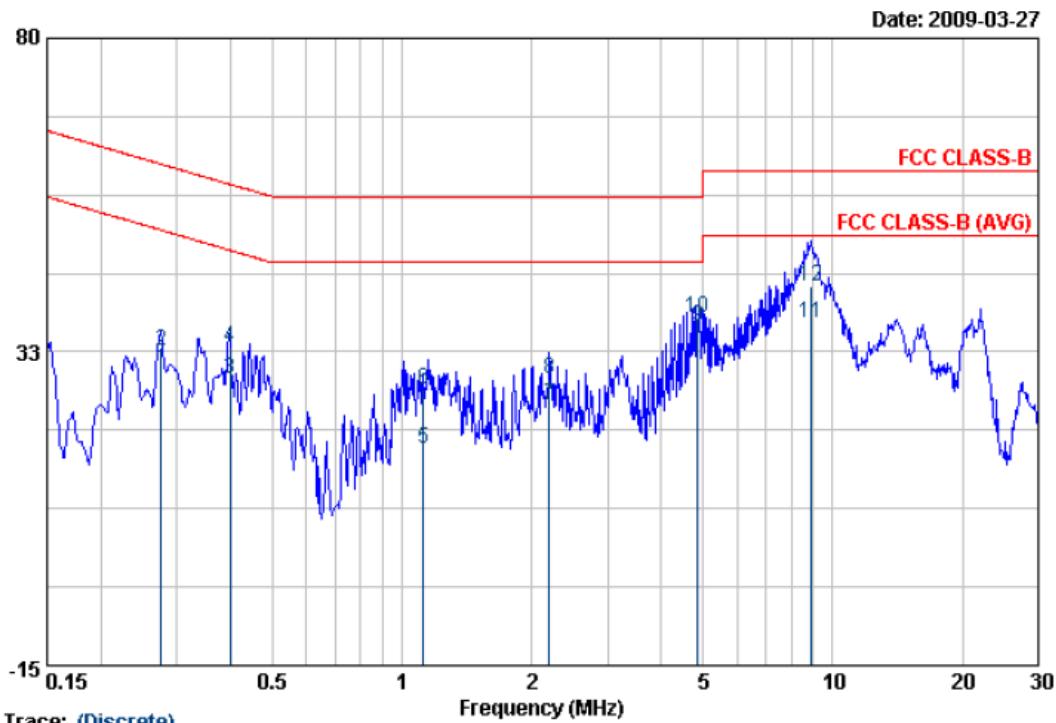
Item	Freq	Value	Factor	Read	Result	Limit	Margin	Remark
	MHz	dBuV/m		dB	dBuV/m	dBuV/m	dB	
1	0.27610	27.75	0.13	27.88	50.93	-23.05	-	AVERAGE
2	0.27610	32.72	0.13	32.85	60.93	-28.08	-	QP
3	0.40050	25.27	0.14	25.41	47.84	-22.43	-	AVERAGE
4	0.40050	32.16	0.14	32.30	57.84	-25.54	-	QP
5	0.98220	18.60	0.18	18.78	46.00	-27.22	-	AVERAGE
6	0.98220	25.55	0.18	25.73	56.00	-30.27	-	QP
7	2.195	24.89	0.24	25.13	46.00	-20.87	-	AVERAGE
8	2.195	29.35	0.24	29.59	56.00	-26.41	-	QP
9	4.869	33.91	0.33	34.24	46.00	-11.76	-	AVERAGE
10	4.869	36.89	0.33	37.22	56.00	-18.78	-	QP
11	9.186	36.32	0.41	36.73	50.00	-13.27	-	AVERAGE
12	9.186	41.55	0.41	41.96	60.00	-18.04	-	QP

## Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. According to technical experiences, all spurious emission of 802.11an HT20 mode at channel 149,157,165 are almost the same below 1GHz, so that the channel 149 was chosen as representative in final test.
5. The data is worse case.



Power	: AC 120V	Pol/Phase	: LINE
Test Mode	: 802.11an HT20, CH36	Temperature	: 23 °C
Memo	: EUT with PC	Humidity	: 52 %

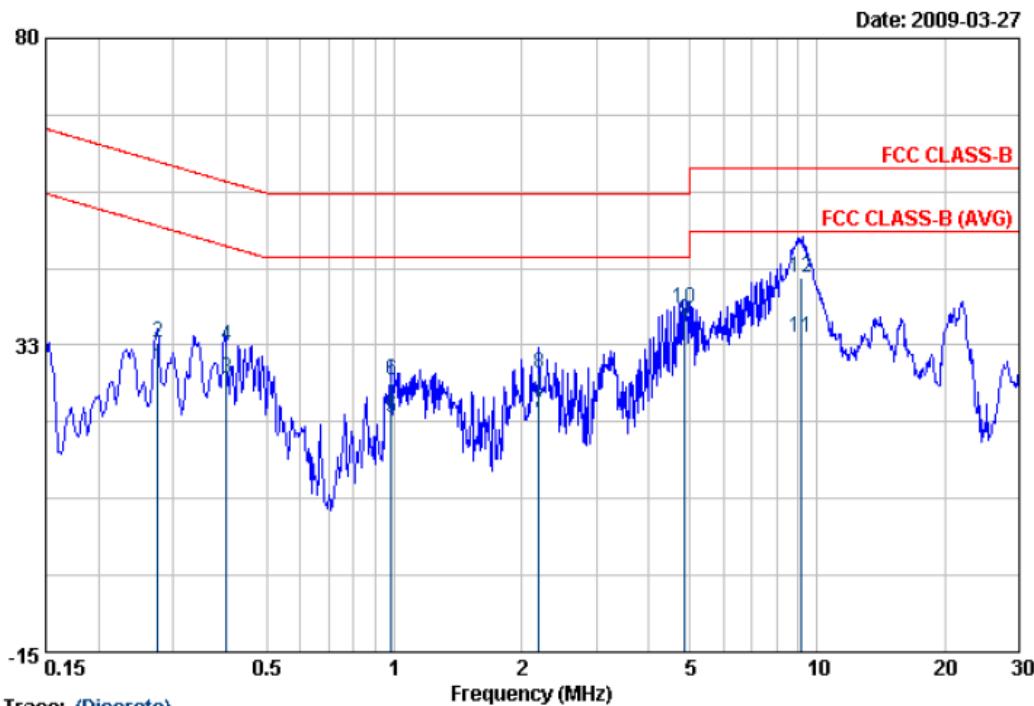


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5. The data is worse case.



Power :	AC 120V	Pol/Phase :	NEUTRAL
Test Mode :	802.11an HT20, CH36	Temperature :	23 °C
Memo :	EUT with PC	Humidity :	52 %

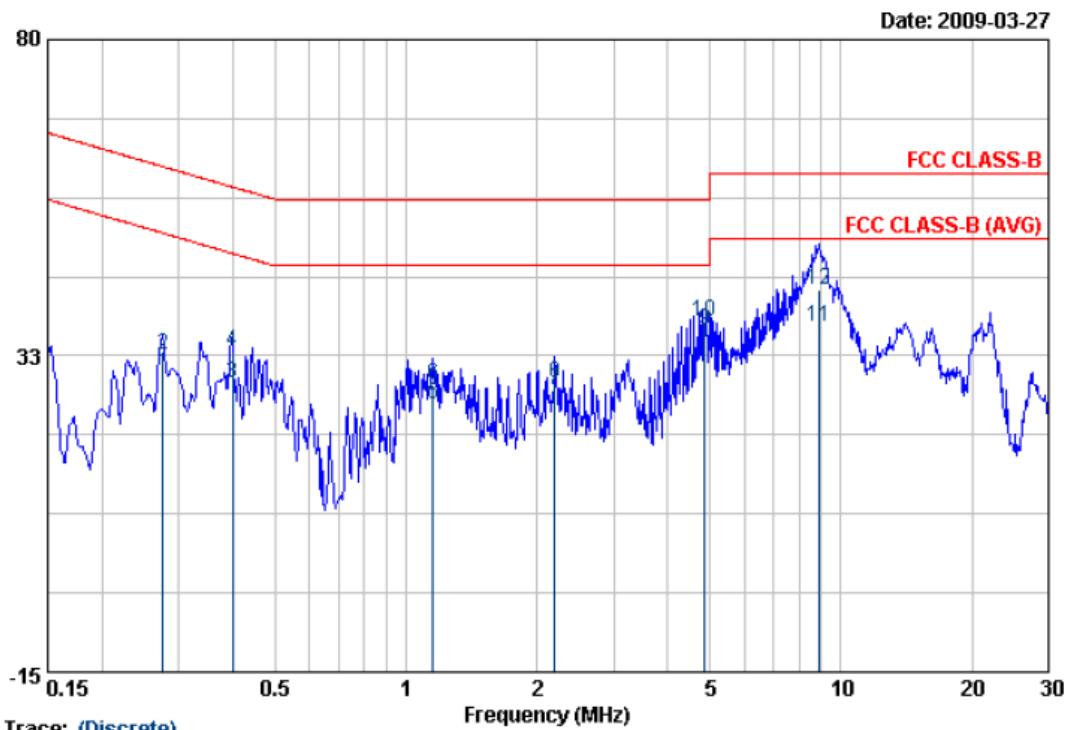


## Notes:

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3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. According to technical experiences, all spurious emission of 802.11an HT20 mode at channel 149,157,165 are almost the same below 1GHz, so that the channel 149 was chosen as representative in final test.
5. The data is worse case.



Power	: AC 120V	Pol/Phase	: LINE
Test Mode	: 802.11an HT40, CH38	Temperature	: 23 °C
Memo	: EUT with PC	Humidity	: 52 %



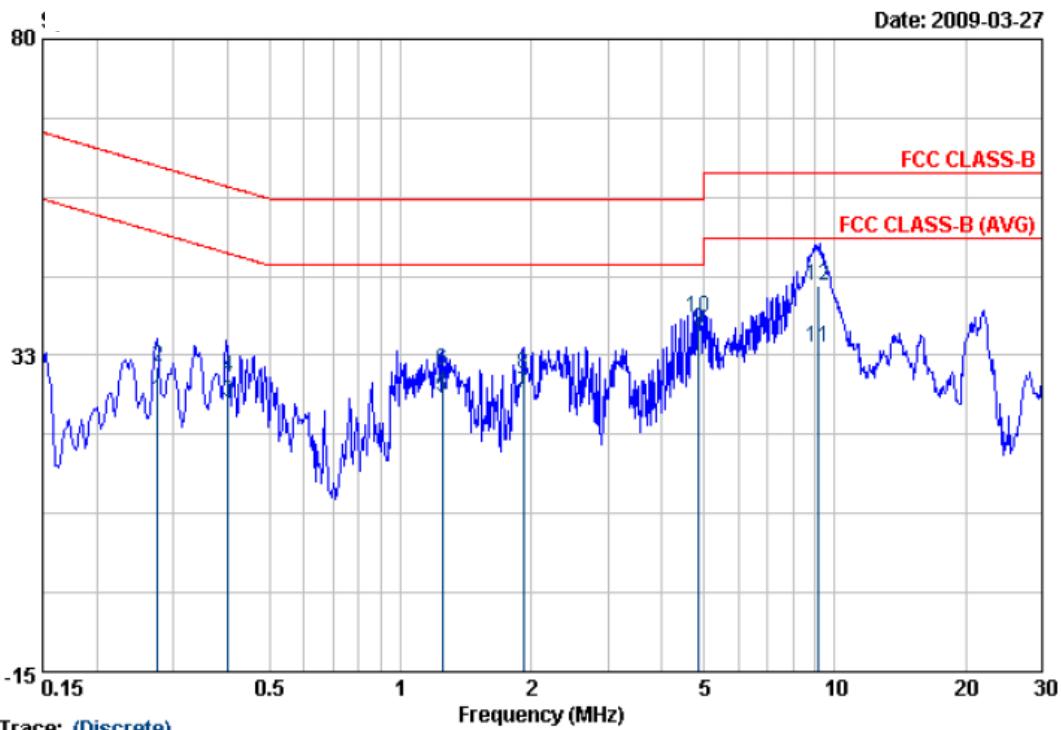
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV/m		dB	dBuV/m	dB	
1	0.27587	29.56	0.11	29.67	50.94	-21.27	Average
2	0.27587	32.56	0.11	32.67	60.94	-28.27	QP
3	0.39950	28.18	0.11	28.29	47.86	-19.57	AVERAGE
4	0.39950	32.97	0.11	33.08	57.86	-24.78	QP
5	1.153	25.01	0.17	25.18	46.00	-20.82	Average
6	1.153	28.01	0.17	28.18	56.00	-27.82	QP
7	2.201	27.23	0.24	27.47	46.00	-18.53	Average
8	2.201	28.23	0.24	28.47	56.00	-27.53	QP
9	4.869	35.94	0.34	36.28	46.00	-9.72	AVERAGE
10	4.869	37.44	0.34	37.78	56.00	-18.22	QP
11	8.880	36.37	0.37	36.74	50.00	-13.26	AVERAGE
12	8.880	42.13	0.37	42.50	60.00	-17.50	QP

## Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. According to technical experiences, all spurious emission of 802.11an HT20 mode at channel 149,157,165 are almost the same below 1GHz, so that the channel 149 was chosen as representative in final test.
5. The data is worse case.



Power	: AC 120V	Pol/Phase	: NEUTRAL
Test Mode	: 802.11an HT40, CH38	Temperature	: 23 °C
Memo	: EUT with PC	Humidity	: 52 %



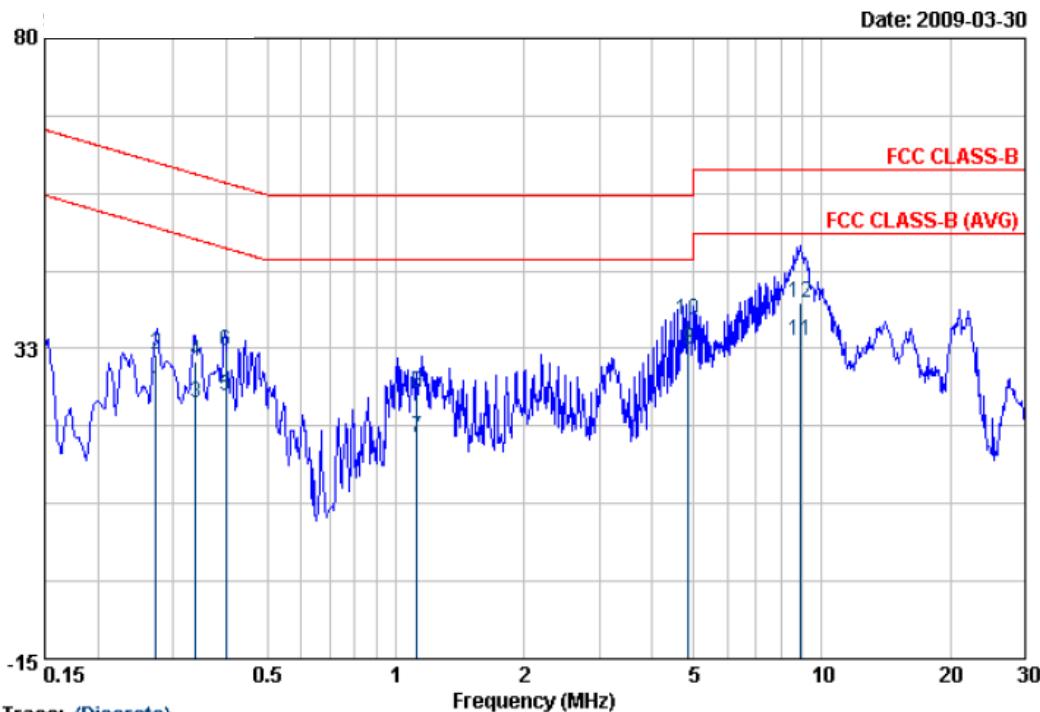
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	
1	0.27610	25.75	0.13	25.88	50.93	-25.05	AVERAGE
2	0.27610	30.72	0.13	30.85	60.93	-30.08	QP
3	0.40050	25.27	0.14	25.41	47.84	-22.43	AVERAGE
4	0.40050	29.16	0.14	29.30	57.84	-28.54	QP
5	1.249	26.00	0.20	26.20	46.00	-19.80	Average
6	1.249	30.00	0.20	30.20	56.00	-25.80	QP
7	1.918	26.51	0.22	26.73	46.00	-19.27	Average
8	1.918	29.51	0.22	29.73	56.00	-26.27	QP
9	4.869	35.91	0.33	36.24	46.00	-9.76	AVERAGE
10	4.869	37.89	0.33	38.22	56.00	-17.78	QP
11	9.186	33.32	0.41	33.73	50.00	-16.27	AVERAGE
12	9.186	42.55	0.41	42.96	60.00	-17.04	QP

## Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. According to technical experiences, all spurious emission of 802.11an HT20 mode at channel 149,157,165 are almost the same below 1GHz, so that the channel 149 was chosen as representative in final test.
5. The data is worse case.



Power	:	AC 120V	Pol/Phase	:	LINE
Test Mode	:	802.11a, CH36	Temperature	:	23 °C
Memo	:	EUT with USB cable	Humidity	:	52 %

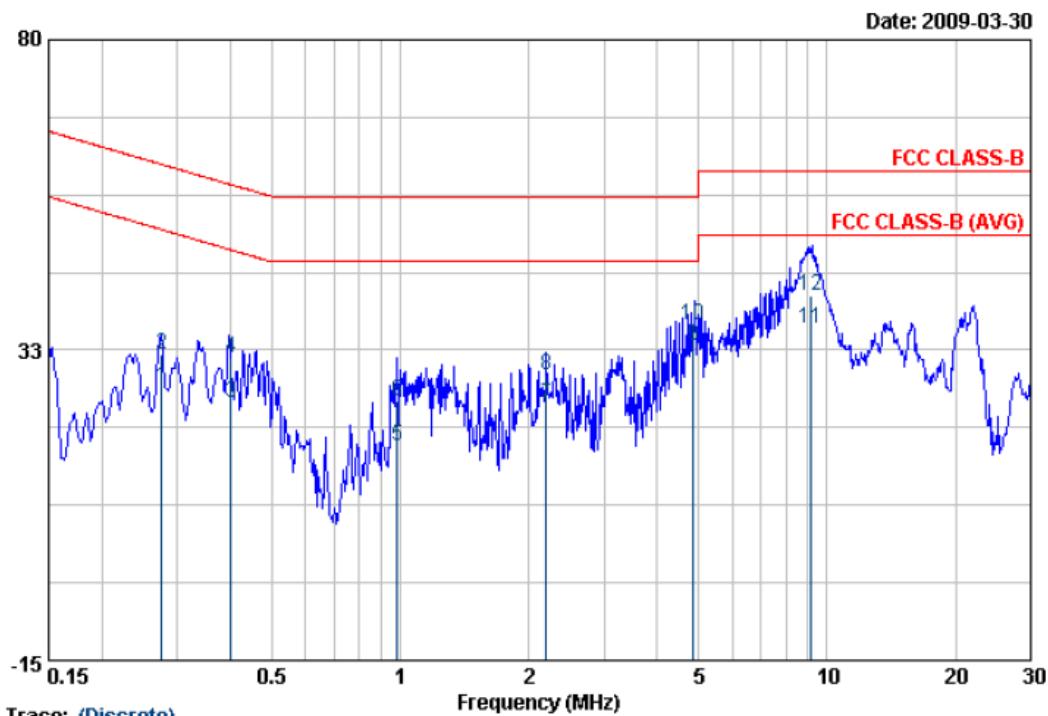


## Notes:

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4. According to technical experiences, all spurious emission of 802.11an HT20 mode at channel 149,157,165 are almost the same below 1GHz, so that the channel 149 was chosen as representative in final test.
5. The data is worse case.



Power	: AC 120V	Pol/Phase	: NEUTRAL
Test Mode	: 802.11a, CH36	Temperature	: 23 °C
Memo	: EUT with USB cable	Humidity	: 52 %



Trace: (Discrete)

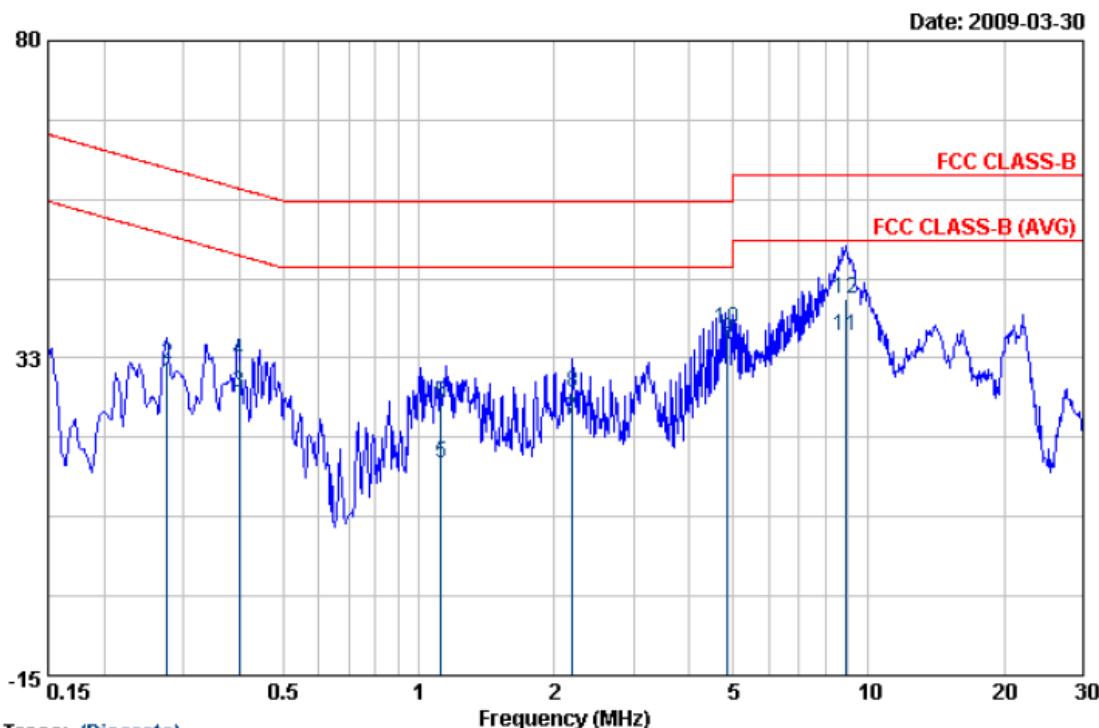
Item	Freq	Read		Result	Limit	Margin	Remark
		Value	Factor				
MHz							
1	0.27610	26.75	0.13	26.88	50.93	-24.05	AVERAGE
2	0.27610	31.72	0.13	31.85	60.93	-29.08	QP
3	0.40050	24.27	0.14	24.41	47.84	-23.43	AVERAGE
4	0.40050	31.16	0.14	31.30	57.84	-26.54	QP
5	0.98220	17.60	0.18	17.78	46.00	-28.22	AVERAGE
6	0.98220	24.55	0.18	24.73	56.00	-31.27	QP
7	2.195	23.89	0.24	24.13	46.00	-21.87	AVERAGE
8	2.195	28.35	0.24	28.59	56.00	-27.41	QP
9	4.869	32.91	0.33	33.24	46.00	-12.76	AVERAGE
10	4.869	35.89	0.33	36.22	56.00	-19.78	QP
11	9.186	35.32	0.41	35.73	50.00	-14.27	AVERAGE
12	9.186	40.55	0.41	40.96	60.00	-19.04	QP

## Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. According to technical experiences, all spurious emission of 802.11an HT20 mode at channel 149,157,165 are almost the same below 1GHz, so that the channel 149 was chosen as representative in final test.
5. The data is worse case.



Power :	AC 120V	Pol/Phase :	LINE
Test Mode :	802.11an HT20, CH36	Temperature :	23 °C
Memo :	EUT with USB cable	Humidity :	52 %

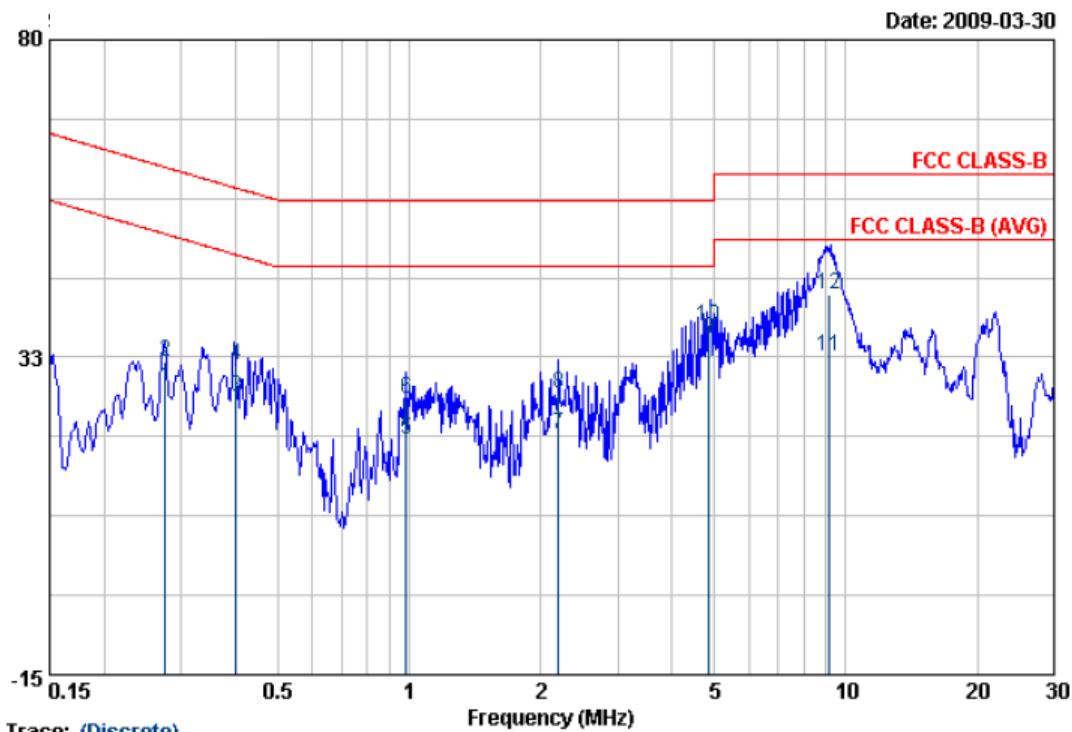


## Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. According to technical experiences, all spurious emission of 802.11an HT20 mode at channel 149,157,165 are almost the same below 1GHz, so that the channel 149 was chosen as representative in final test.
5. The data is worse case.



Power :	AC 120V	Pol/Phase :	NEUTRAL
Test Mode :	802.11an HT20, CH36	Temperature :	23 °C
Memo :	EUT with USB cable	Humidity :	52 %



Item	Freq	Read		Result	Limit	Margin	Remark
		Value	Factor				
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	
1	0.27610	27.75	0.13	27.88	50.93	-23.05	AVERAGE
2	0.27610	31.72	0.13	31.85	60.93	-29.08	QP
3	0.40050	26.27	0.14	26.41	47.84	-21.43	AVERAGE
4	0.40050	31.16	0.14	31.30	57.84	-26.54	QP
5	0.98391	20.00	0.18	20.18	46.00	-25.82	Average
6	0.98391	26.00	0.18	26.18	56.00	-29.82	QP
7	2.201	20.83	0.24	21.07	46.00	-24.93	Average
8	2.201	26.83	0.24	27.07	56.00	-28.93	QP
9	4.869	34.91	0.33	35.24	46.00	-10.76	AVERAGE
10	4.869	36.89	0.33	37.22	56.00	-18.78	QP
11	9.186	32.32	0.41	32.73	50.00	-17.27	AVERAGE
12	9.186	41.55	0.41	41.96	60.00	-18.04	QP

## Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. According to technical experiences, all spurious emission of 802.11an HT20 mode at channel 149,157,165 are almost the same below 1GHz, so that the channel 149 was chosen as representative in final test.
5. The data is worse case.



Power	: AC 120V	Pol/Phase	: LINE
Test Mode	: 802.11an HT40, CH38	Temperature	: 23 °C
Memo	: EUT with USB cable	Humidity	: 52 %

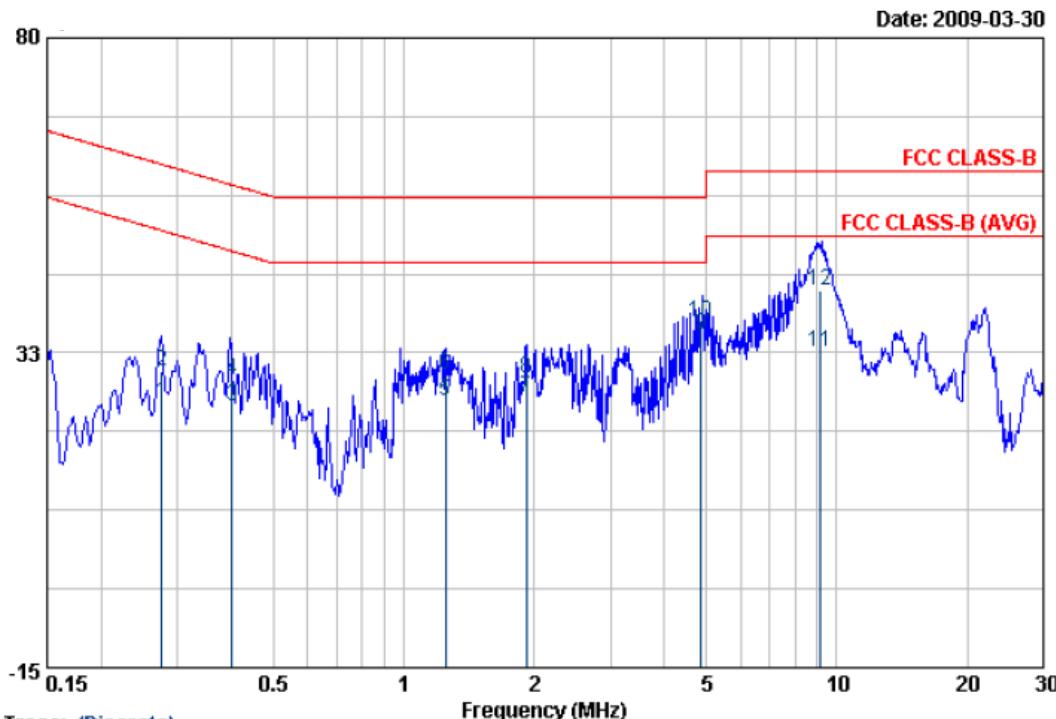


## Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. According to technical experiences, all spurious emission of 802.11an HT20 mode at channel 149,157,165 are almost the same below 1GHz, so that the channel 149 was chosen as representative in final test.
5. The data is worse case.



Power :	AC 120V	Pol/Phase :	NEUTRAL
Test Mode :	802.11an HT40, CH38	Temperature :	23 °C
Memo :	EUT with USB cable	Humidity :	52 %



Item	Freq	Read		Result	Limit	Margin	Remark
		Value	Factor				
	MHz	dB <sub>UV/m</sub>	dB	dB <sub>UV/m</sub>	dB <sub>UV/m</sub>	dB	
1	0.27610	24.75	0.13	24.88	50.93	-26.05	AVERAGE
2	0.27610	29.72	0.13	29.85	60.93	-31.08	QP
3	0.40050	24.27	0.14	24.41	47.84	-23.43	AVERAGE
4	0.40050	28.16	0.14	28.30	57.84	-29.54	QP
5	1.249	25.00	0.20	25.20	46.00	-20.80	Average
6	1.249	29.00	0.20	29.20	56.00	-26.80	QP
7	1.918	25.51	0.22	25.73	46.00	-20.27	Average
8	1.918	28.51	0.22	28.73	56.00	-27.27	QP
9	4.869	34.91	0.33	35.24	46.00	-10.76	AVERAGE
10	4.869	36.89	0.33	37.22	56.00	-18.78	QP
11	9.186	32.32	0.41	32.73	50.00	-17.27	AVERAGE
12	9.186	41.55	0.41	41.96	60.00	-18.04	QP

## Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. According to technical experiences, all spurious emission of 802.11an HT20 mode at channel 149, 157, 165 are almost the same below 1GHz, so that the channel 149 was chosen as representative in final test.
5. The data is worse case.

Test engineer: Ben



## 5. Test of Radiated Emission

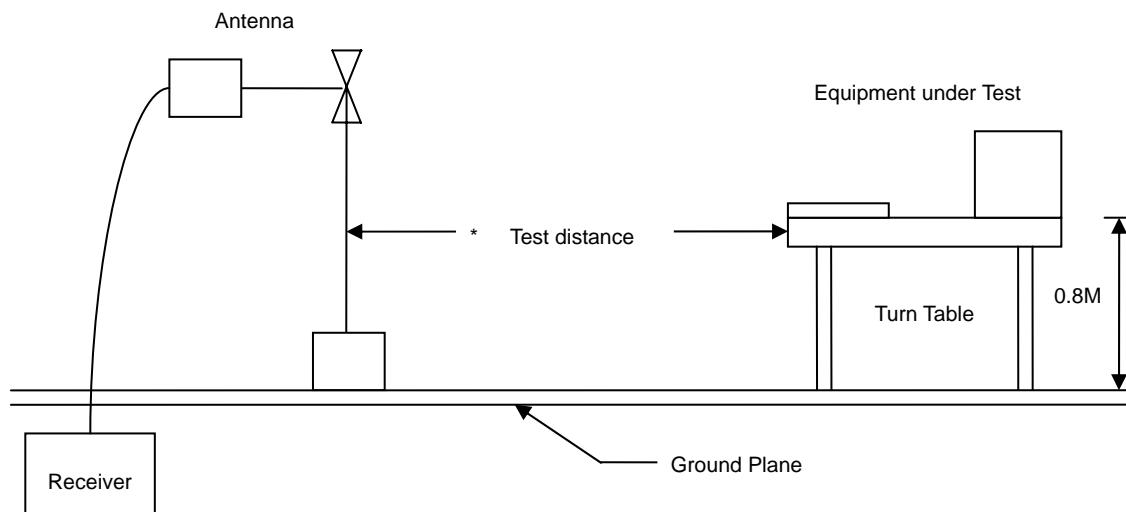
Radiated emissions from 30 MHz to 40 GHz were measured according to the methods defines in ANSI C63.4-2003. The EUT was placed, 0.8 meter above the ground plane, as shown in section 1.4.2. The interface cables and equipment positions were varied within limits of reasonable applications to determine the positions producing maximum radiated emissions

### 5.1. Test Procedures

- a. The EUT was placed on a rotatable table top 0.8 meter above ground.
- b. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
- c. The table was rotated 360 degrees to determine the position of the highest radiation.
- d. The antenna is a broadband antenna and its height is varied between one meter and four meters above ground to find the maximum value of the field strength both horizontal polarization and vertical polarization of the antenna are set to make the measurement.
- e. For each suspected emission the EUT was arranged to its worst case and then tune the antenna tower (from 1 M to 4 M) and turn table (from 0 degree to 360 degrees) to find the maximum reading.
- f. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function and specified bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method and reported.
- h. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.



## 5.2. Typical Test Setup Layout of Radiated Emission



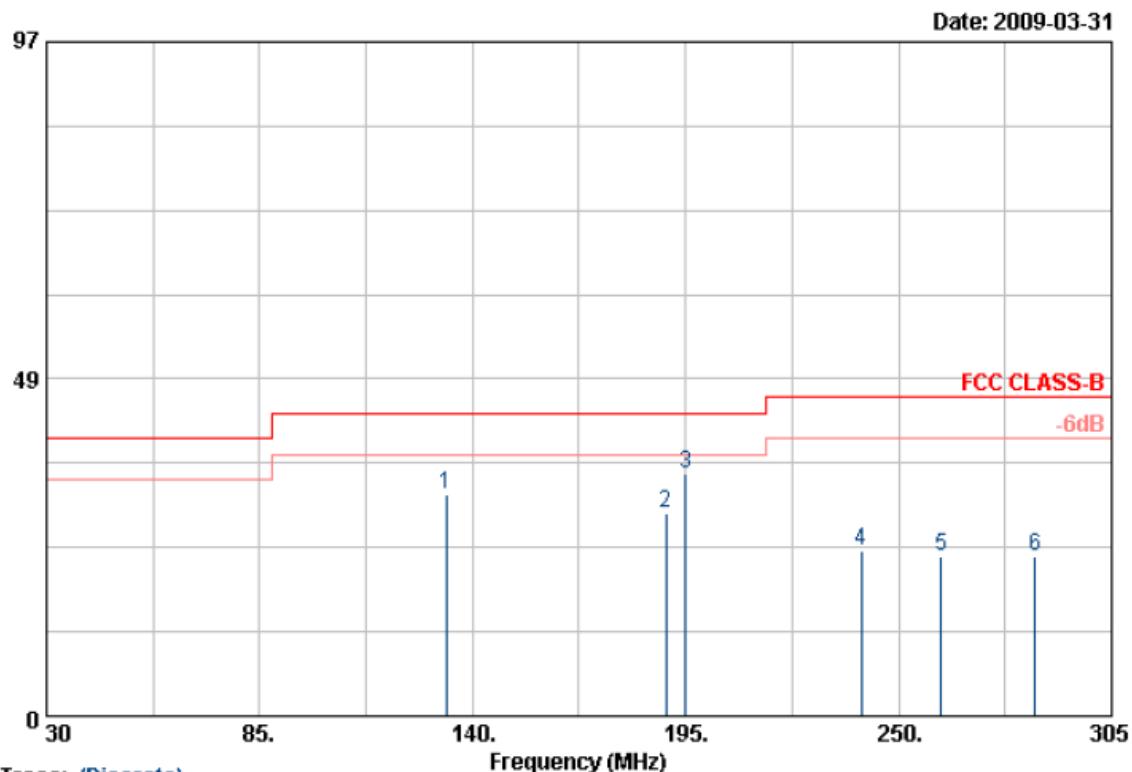
## 5.3. Measurement Equipment

Instrument/Ancillary	Model No.	Manufacturer	Serial No.	Calibration Date	Valid Date
Bilog Antenna	CBL6112B	Schaffner	2840	2008/05/15	2009/05/14
Signal Generator	8648B	HP	3629U00612	2008/10/08	2009/10/07
Amplifier	8447D	Agilent	2944A10593	2008/05/26	2009/05/25
EMI Receiver	8546A	HP	3807A00454	2008/08/07	2009/08/06
Spectrum	FSP40	R&S	100047	2009/02/20	2010/02/19
Horn Antenna	3115	EMCO	31589	2008/04/01	2009/03/30
Amplifier	8449B	Agilent	3008A01954	2009/01/23	2010/01/22



## 5.4. Test Result of Radiated Emission

Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode	: 802.11a, CH36	Temperature	: 25 °C
Memo	: EUT with PC	Humidity	: 65 %



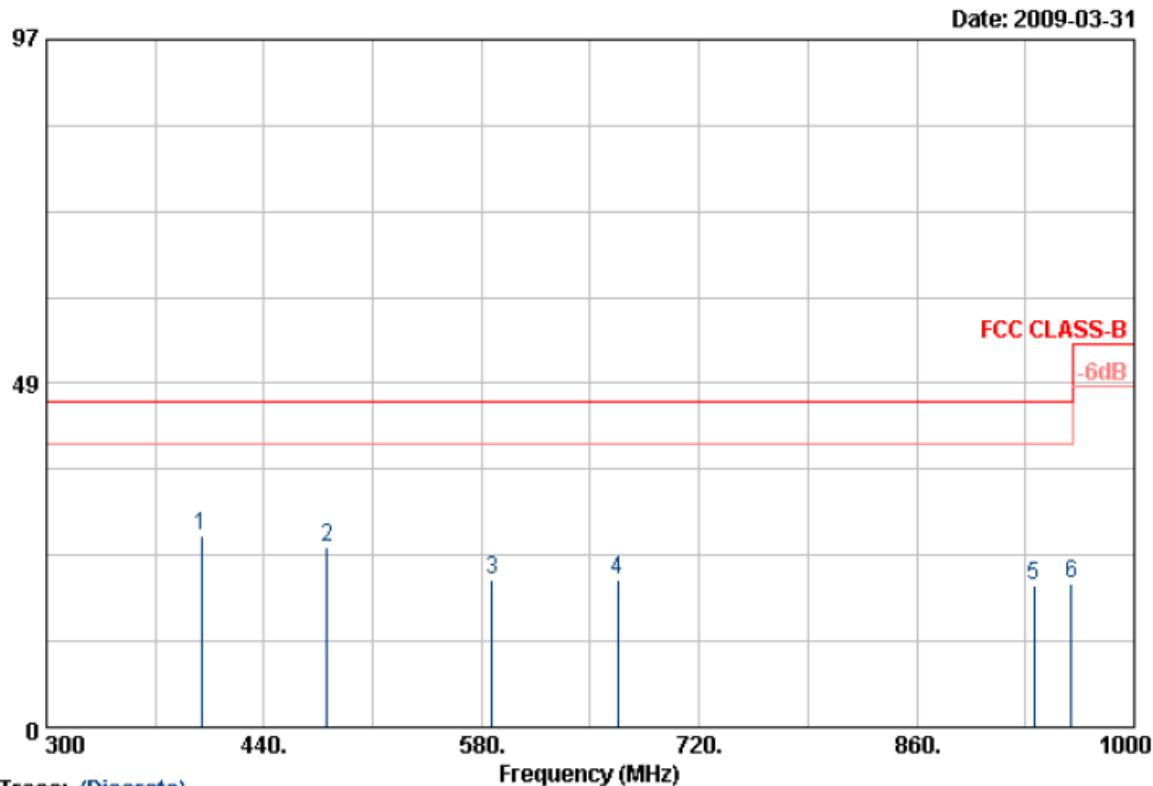
Item	Freq	Read		Result	Limit	Margin	Remark	Ant	Tab
		Value	Factor					Pos	Pos
-----									
	MHz	dB <sub>UV</sub> /m	dB	dB <sub>UV</sub> /m	dB <sub>UV</sub> /m	dB		cm	Deg
1	133.125	55.33	-23.55	31.78	43.50	-11.72	Peak	100	0
2	190.050	51.50	-22.45	29.05	43.50	-14.45	Peak	100	0
3	195.000	57.38	-22.44	34.94	43.50	-8.56	Peak	100	0
4	240.375	50.21	-26.48	23.73	46.00	-22.27	Peak	100	0
5	261.000	49.86	-26.81	23.05	46.00	-22.95	Peak	100	0
6	285.200	50.35	-27.34	23.01	46.00	-22.99	Peak	100	0

### Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. According to technical experiences, all spurious emission of 802.11a mode at channel 36,44,48 are almost the same below 1GHz, so that the channel 36 was chosen as representative in final test.
5. The data is worse case.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode	: 802.11a, CH36	Temperature	: 25 °C
Memo	: EUT with PC	Humidity	: 65 %



## Trace: (Discrete)

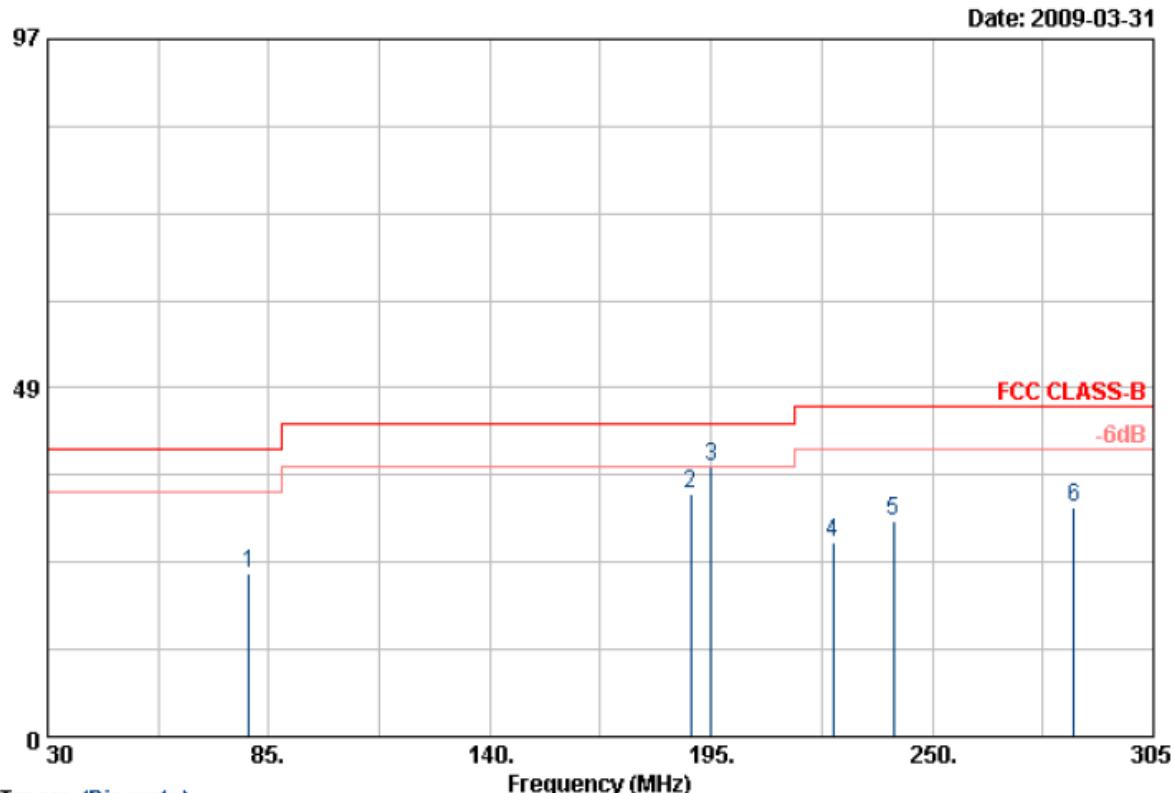
Item	Freq	Read		Result	Limit	Margin	Remark	Ant	Tab
		Value	Factor					Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	399.400	52.33	-25.42	26.91	46.00	-19.09	Peak	150	0
2	480.600	53.40	-27.88	25.52	46.00	-20.48	Peak	150	0
3	587.000	47.33	-26.43	20.90	46.00	-25.10	Peak	150	0
4	667.500	47.52	-26.81	20.71	46.00	-25.29	Peak	150	0
5	935.600	42.81	-22.89	19.92	46.00	-26.08	Peak	150	0
6	959.400	43.45	-23.21	20.24	46.00	-25.76	Peak	150	0

## Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. According to technical experiences, all spurious emission of 802.11a mode at channel 36,44,48 are almost the same below 1GHz, so that the channel 36 was chosen as representative in final test.
5. The data is worse case.



Power	:	AC 120V	Pol/Phase	:	HORIZONTAL
Test Mode	:	802.11a, CH36	Temperature	:	25 °C
Memo	:	EUT with PC	Humidity	:	65 %



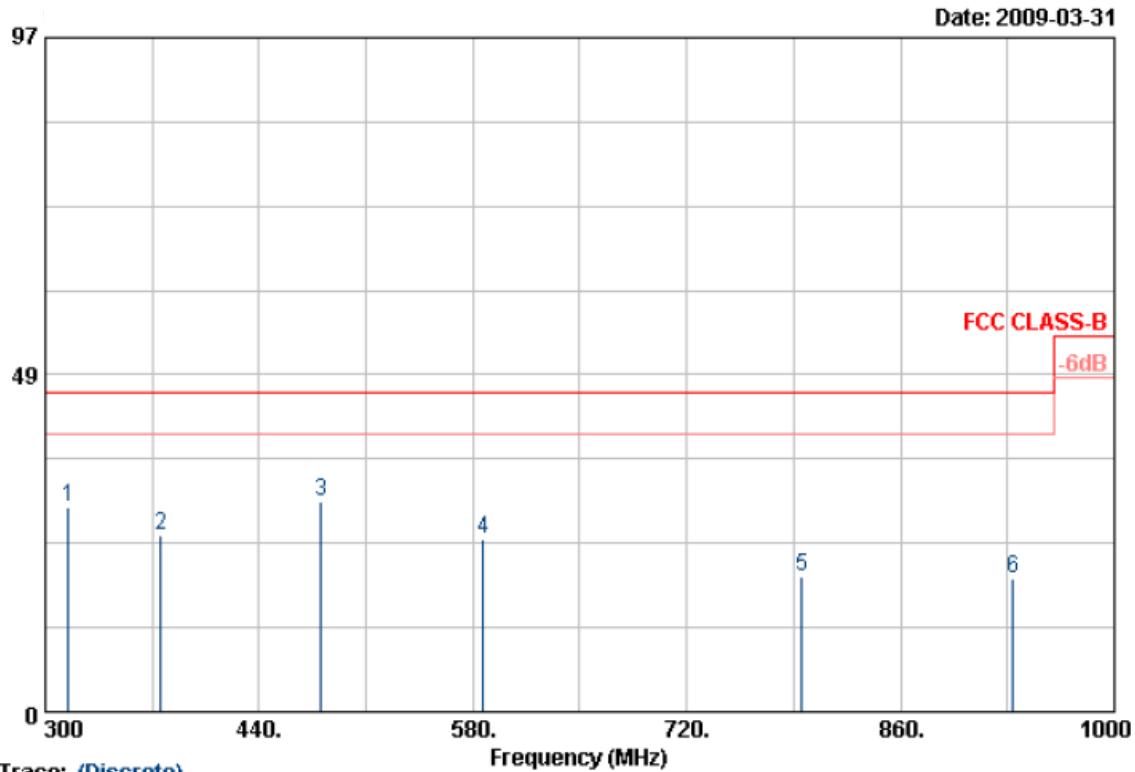
Item	Freq	Read		Result	Limit	Margin	Remark	Ant	Tab
		Value	Factor					Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	80.050	53.58	-30.91	22.67	40.00	-17.33	Peak	100	0
2	190.050	63.65	-29.84	33.81	43.50	-9.69	Peak	100	0
3	195.000	67.68	-30.12	37.56	43.50	-5.94	Peak	100	0
4	225.250	57.01	-29.94	27.07	46.00	-18.93	Peak	100	0
5	240.375	59.57	-29.68	29.89	46.00	-16.11	Peak	100	0
6	285.200	59.79	-27.78	32.01	46.00	-13.99	Peak	100	0

## Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. According to technical experiences, all spurious emission of 802.11a mode at channel 36,44,48 are almost the same below 1GHz, so that the channel 36 was chosen as representative in final test.
5. The data is worse case.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode	: 802.11a, CH36	Temperature	: 25 °C
Memo	: EUT with PC	Humidity	: 65 %



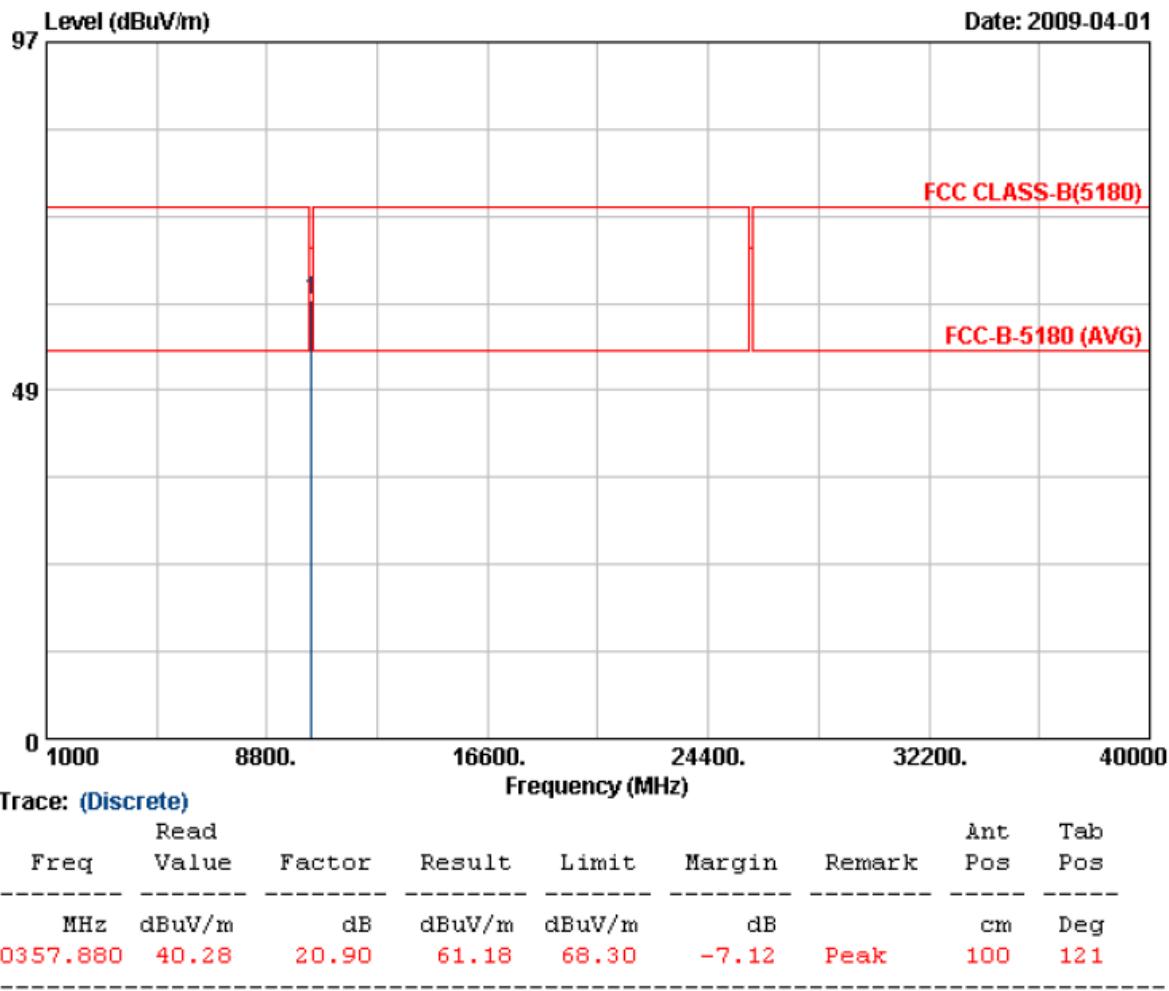
Item	Freq	Read		Result	Limit	Margin	Remark	Ant	Tab
		Value	Factor					Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	315.400	57.72	-28.22	29.50	46.00	-16.50	Peak	150	0
2	375.600	54.66	-29.20	25.46	46.00	-20.54	Peak	150	0
3	480.600	55.13	-24.90	30.23	46.00	-15.77	Peak	150	0
4	587.000	48.48	-23.62	24.86	46.00	-21.14	Peak	150	0
5	795.600	44.81	-25.34	19.47	46.00	-26.53	Peak	150	0
6	933.500	43.11	-23.82	19.29	46.00	-26.71	Peak	150	0

## Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. According to technical experiences, all spurious emission of 802.11a mode at channel 36,44,48 are almost the same below 1GHz, so that the channel 36 was chosen as representative in final test.
5. The data is worse case.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode	: 802.11a, CH36	Temperature	: 22 °C
Memo	: EUT with PC	Humidity	: 65 %

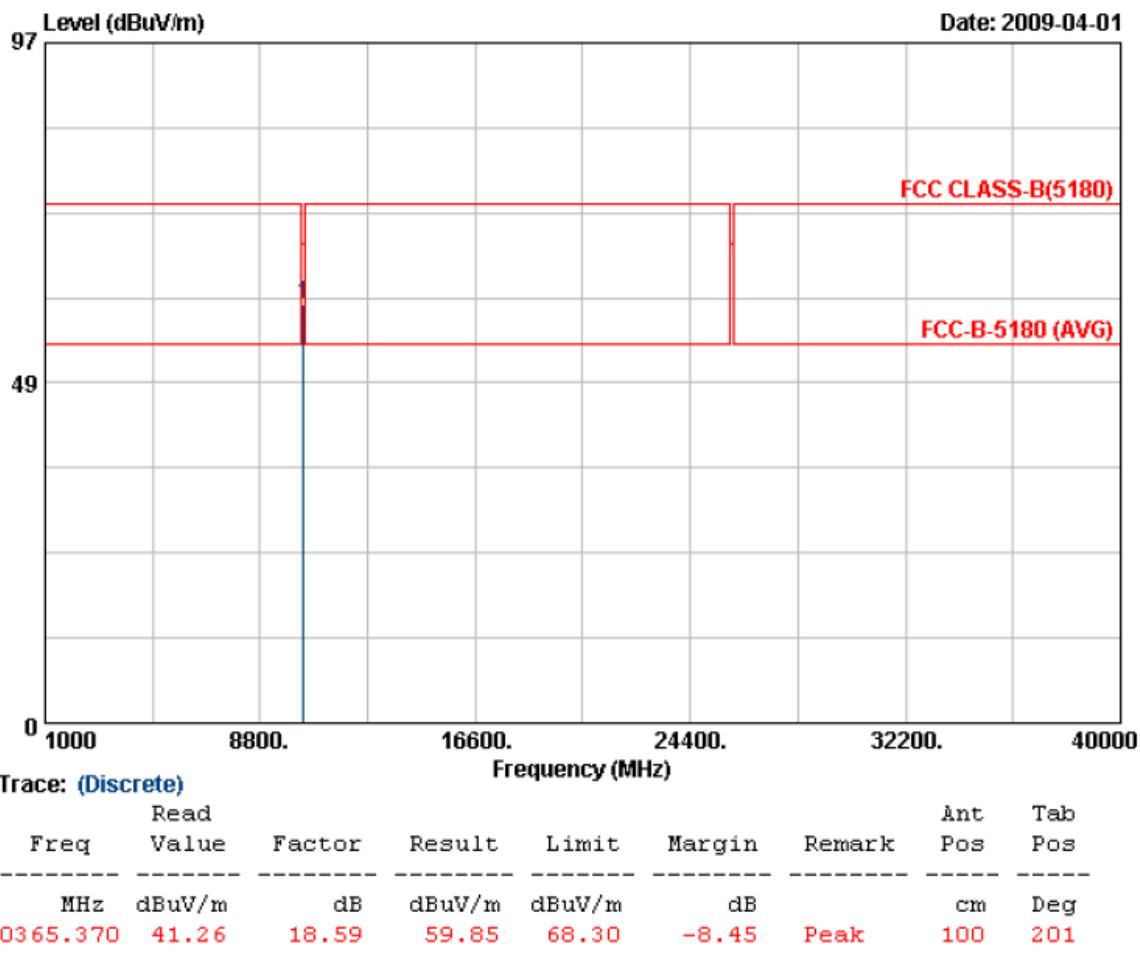


Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.



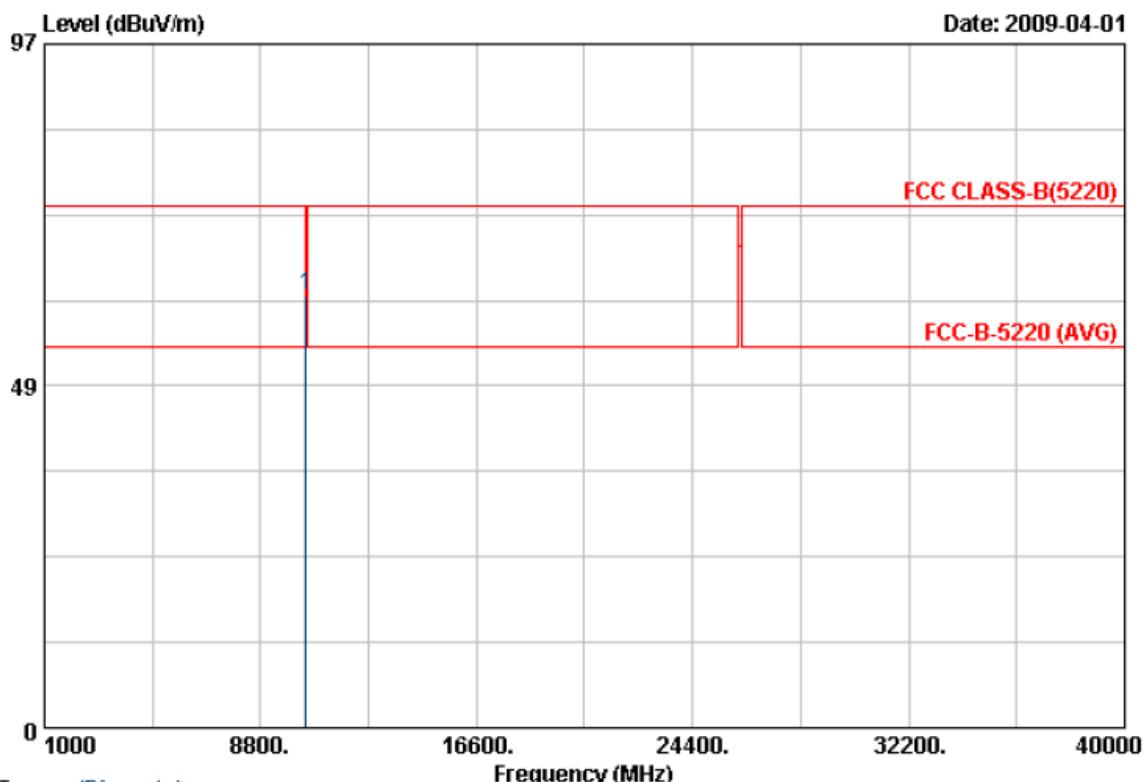
Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode	: 802.11a, CH36	Temperature	: 22 °C
Memo	: EUT with PC	Humidity	: 65 %

**Notes:**

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode	: 802.11a, CH44	Temperature	: 25 °C
Memo	: EUT with PC	Humidity	: 60 %



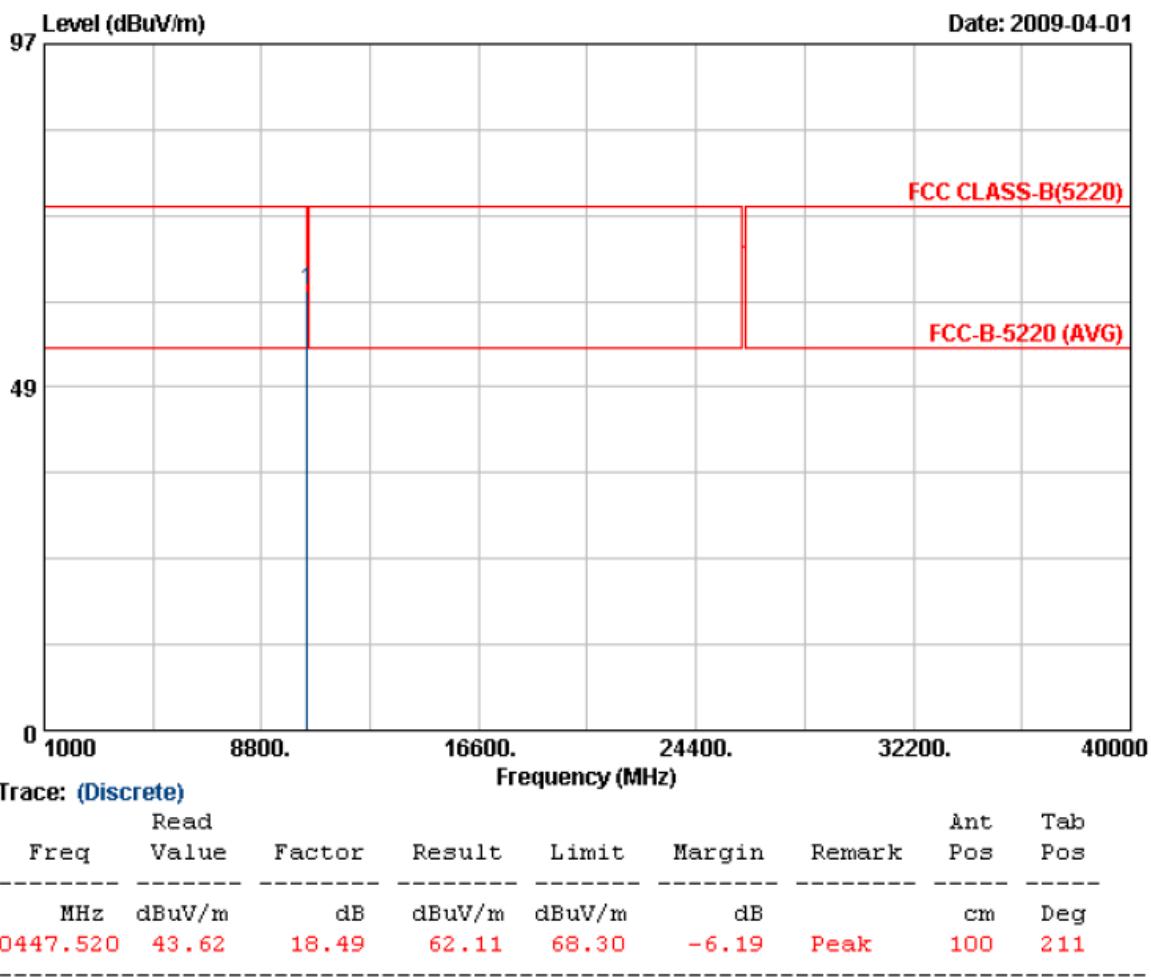
Item	Freq	Read		Result	Limit	Margin	Remark	Ant	Tab
		Value	Factor					Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Peak	cm	Deg
1	10435.190	40.75	20.65	61.40	68.30	-6.90	Peak	100	158

## Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode	: 802.11a, CH44	Temperature	: 25 °C
Memo	: EUT with PC	Humidity	: 60 %

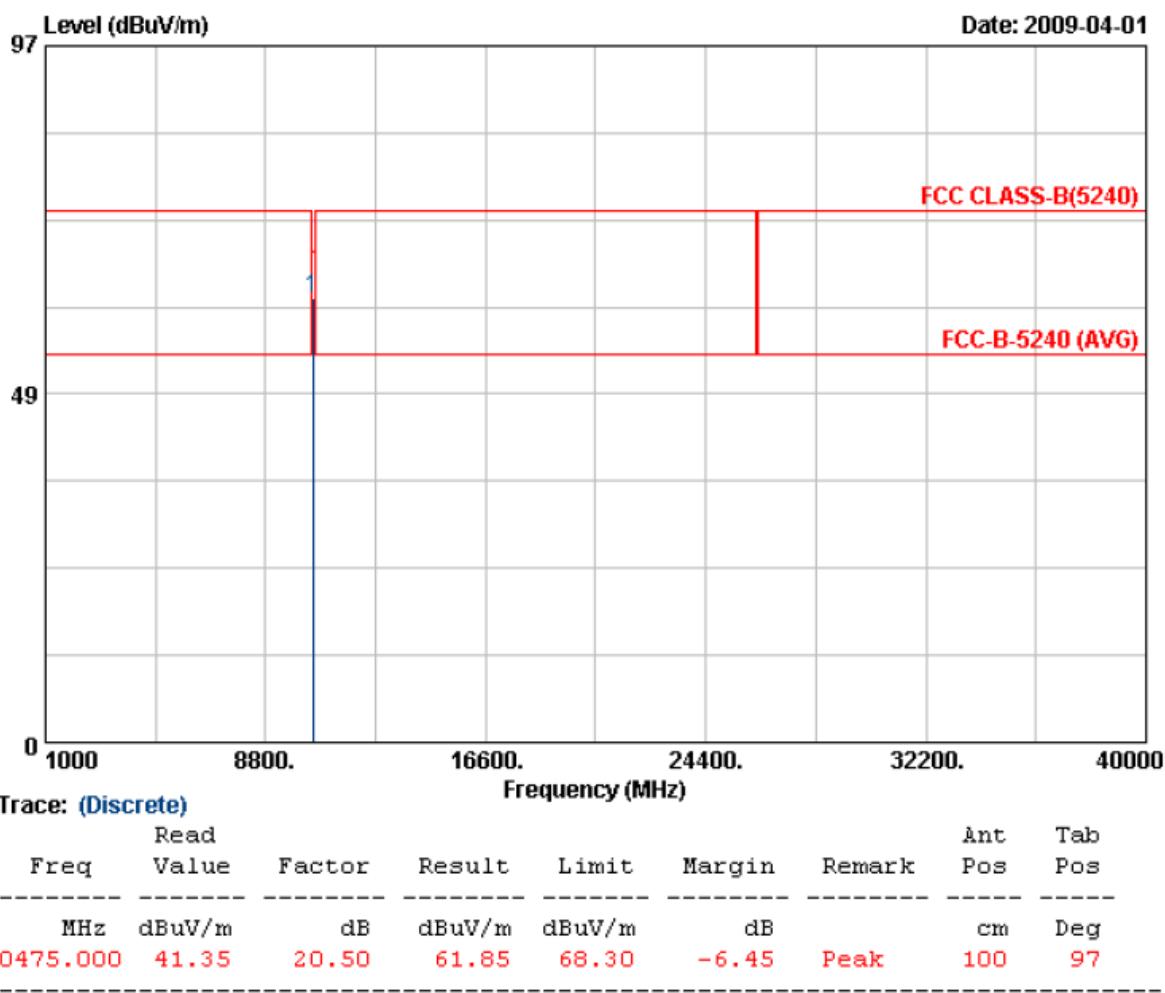


Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.

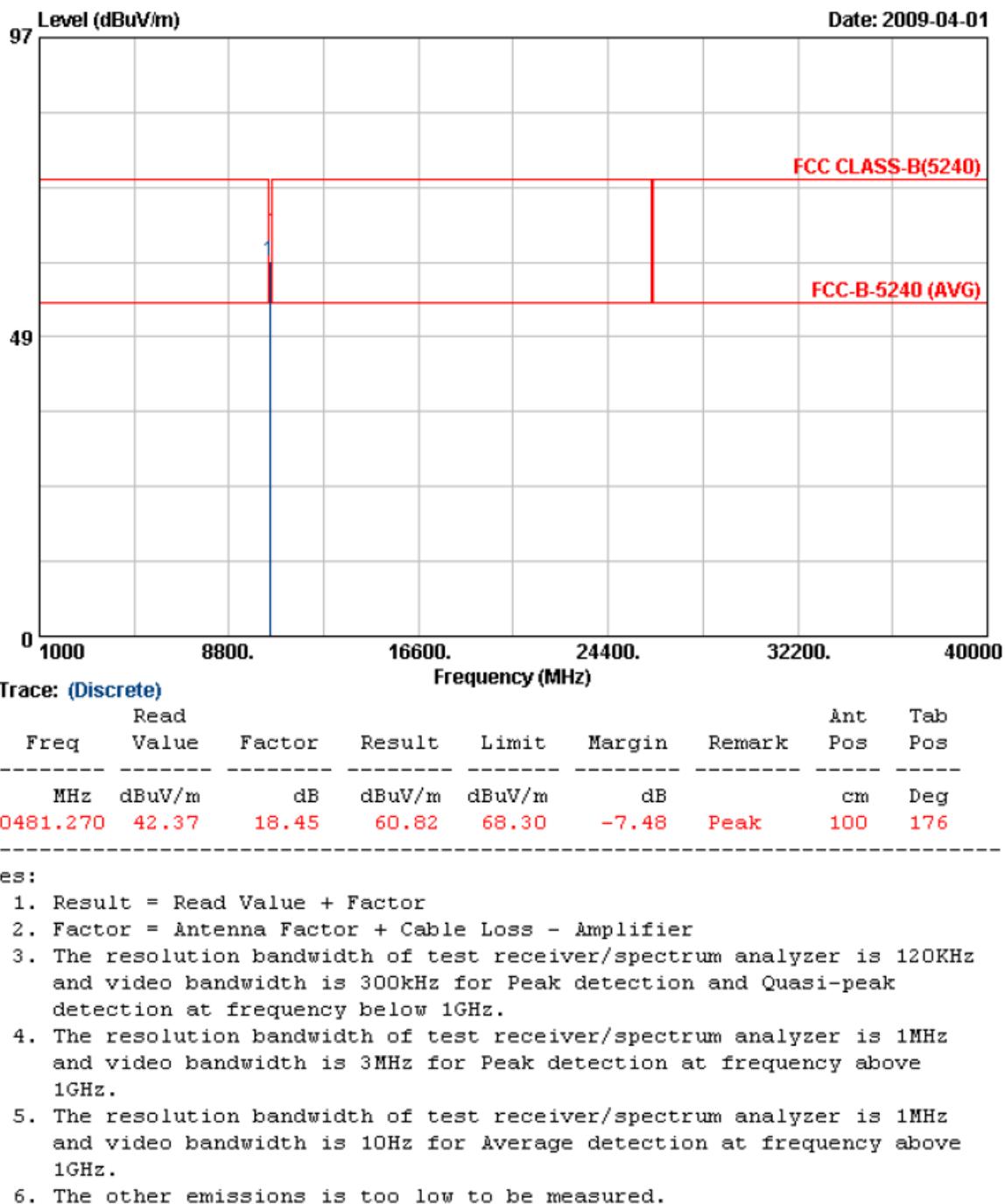


Power	:	AC 120V	Pol/Phase	:	VERTICAL
Test Mode	:	802.11a, CH48	Temperature	:	22 °C
Memo	:	EUT with PC	Humidity	:	65 %



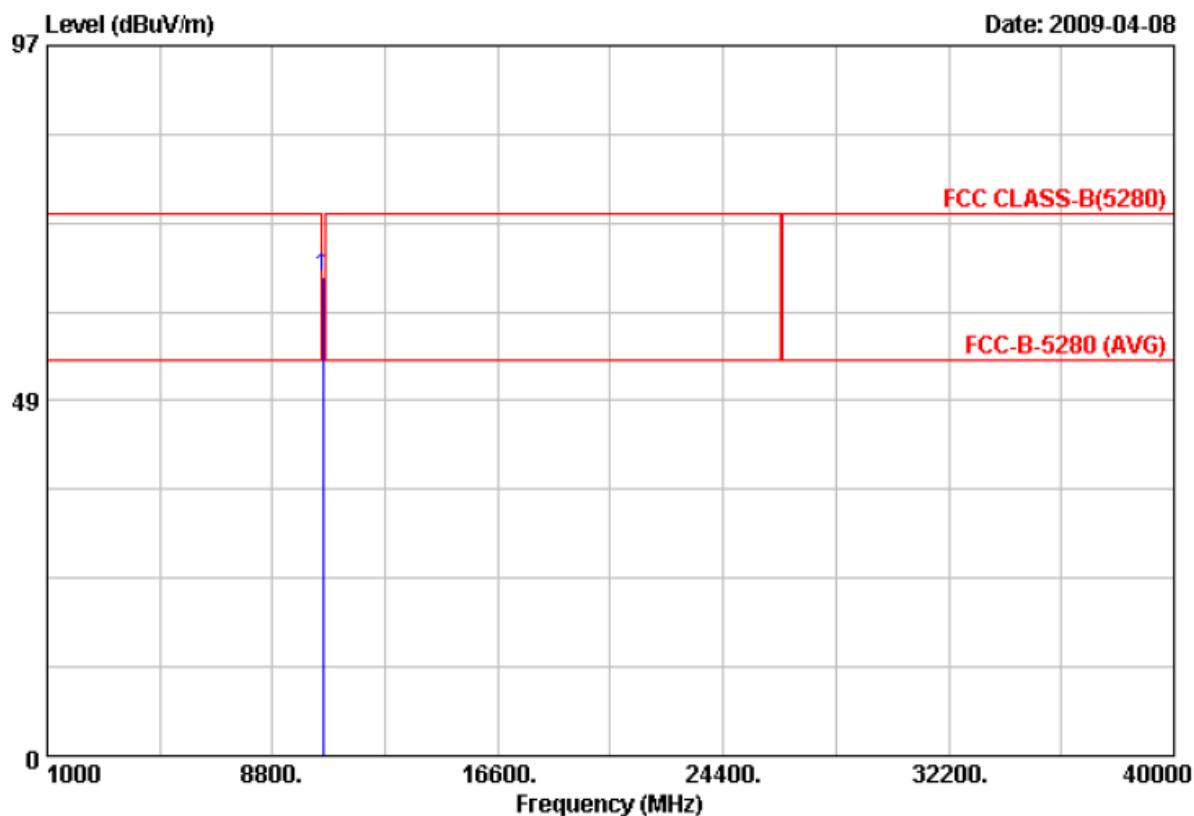


Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode	: 802.11a, CH48	Temperature	: 22 °C
Memo	: EUT with PC	Humidity	: 65 %





Power	:	AC 120V	Pol/Phase	:	VERTICAL
Test Mode	:	802.11a, CH56	Temperature	:	23 °C
Memo	:	EUT with PC	Humidity	:	65 %



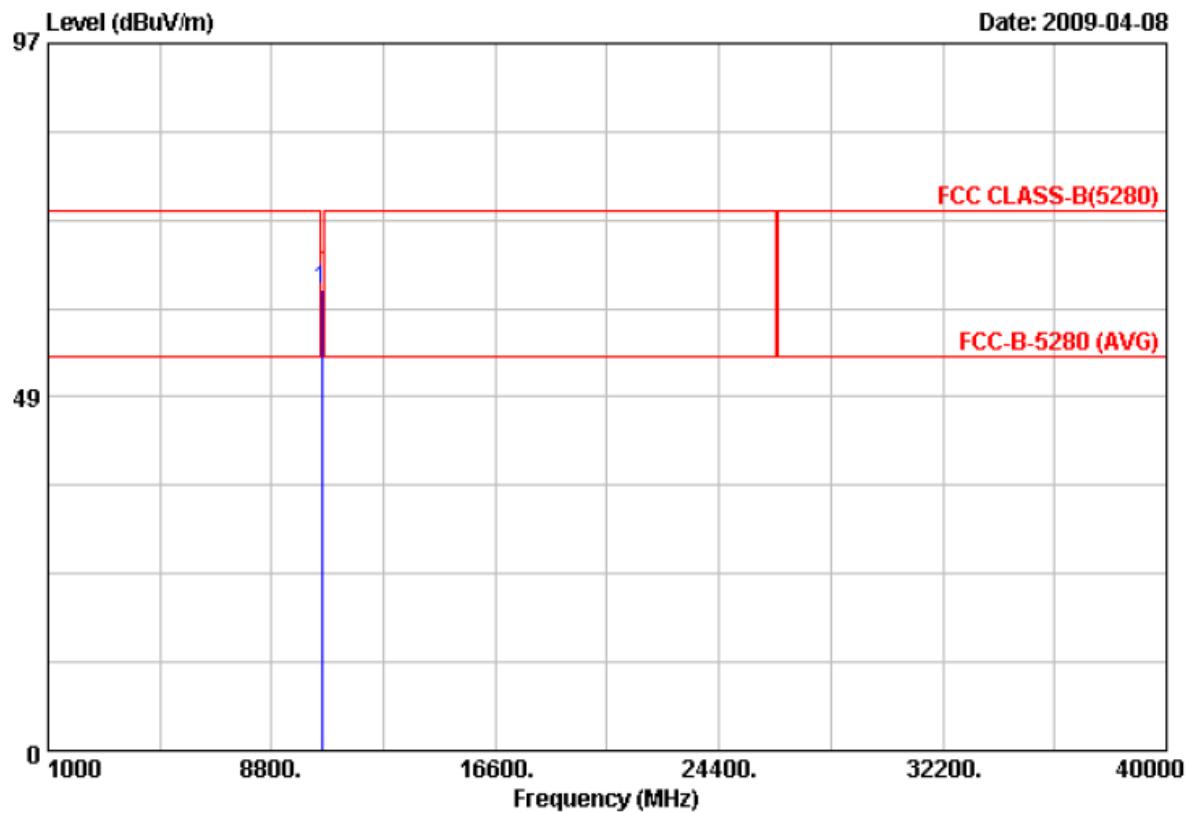
Item	Freq	Read		Result	Limit	Margin	Remark	Ant	Tab
		Value	Factor						
		MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	cm	Deg
1	10559.620	44.72	20.58	65.30	68.30	-3.00	Peak	100	0

## Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode	: 802.11a, CH56	Temperature	: 23 °C
Memo	: EUT with PC	Humidity	: 65 %



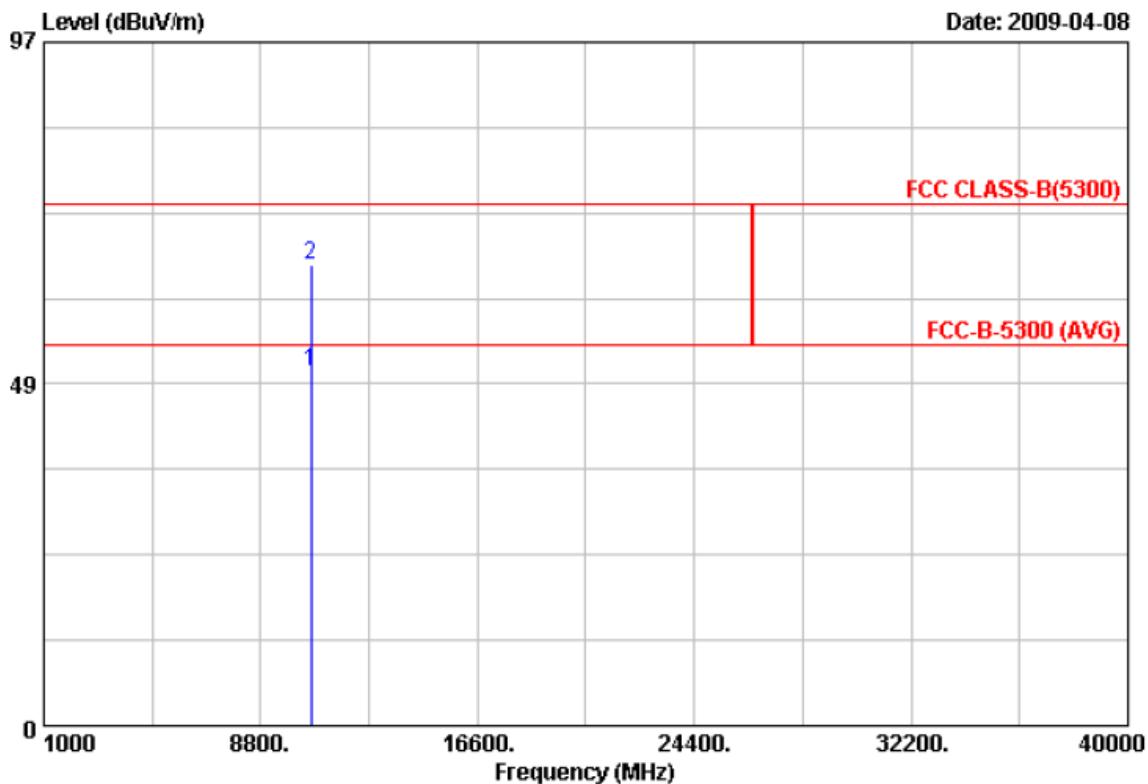
Item	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	cm	Deg
1	10560.260	44.69	18.62	63.31	68.30	-4.99	Peak	100 360

**Notes:**

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.



Power	:	AC 120V	Pol/Phase	:	VERTICAL
Test Mode	:	802.11a, CH60	Temperature	:	23 °C
Memo	:	EUT with PC	Humidity	:	65 %



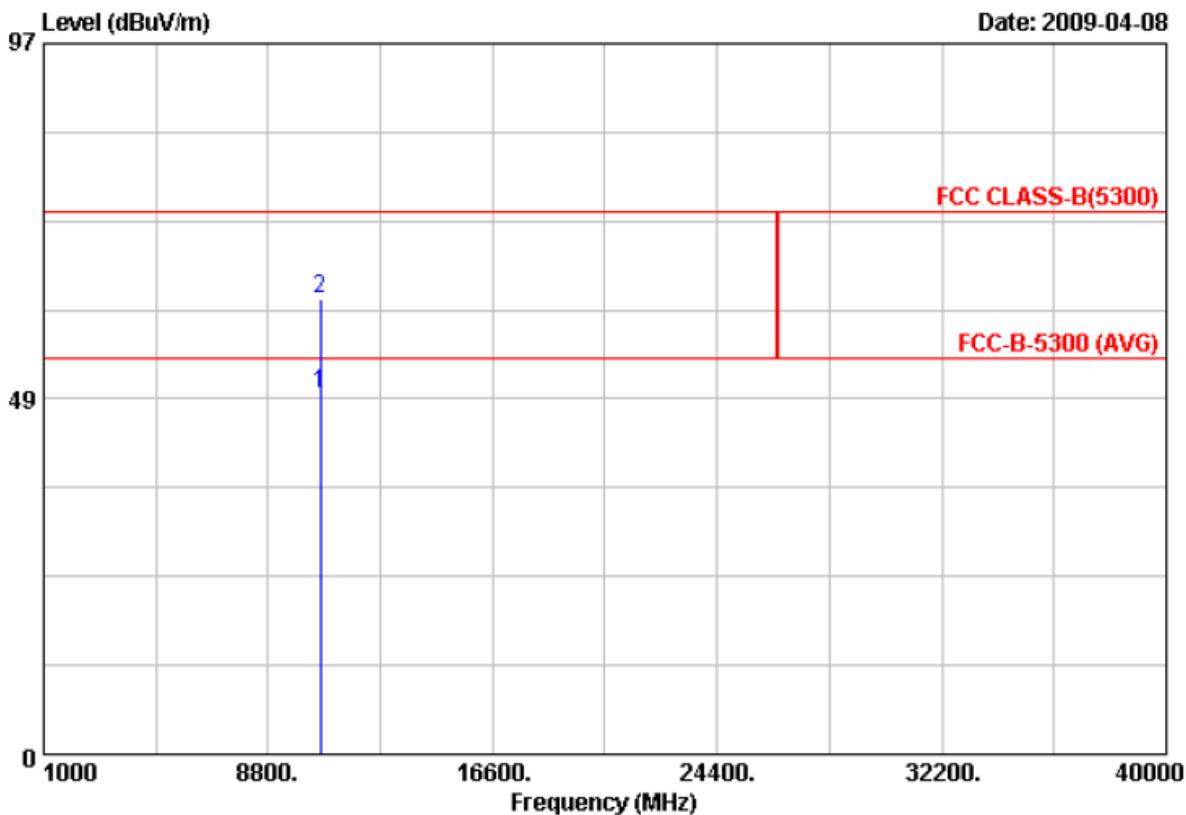
Item	Freq	Read			Limit	Margin	Remark	Ant	Tab
		Value	Factor	Result					
		MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	cm	Deg
1	10595.460	29.69	20.67	50.36	54.00	-3.64	Average	100	0
2	10599.900	44.83	20.67	65.50	74.00	-8.50	Peak	100	0

## Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode	: 802.11a, CH60	Temperature	: 23 °C
Memo	: EUT with PC	Humidity	: 65 %



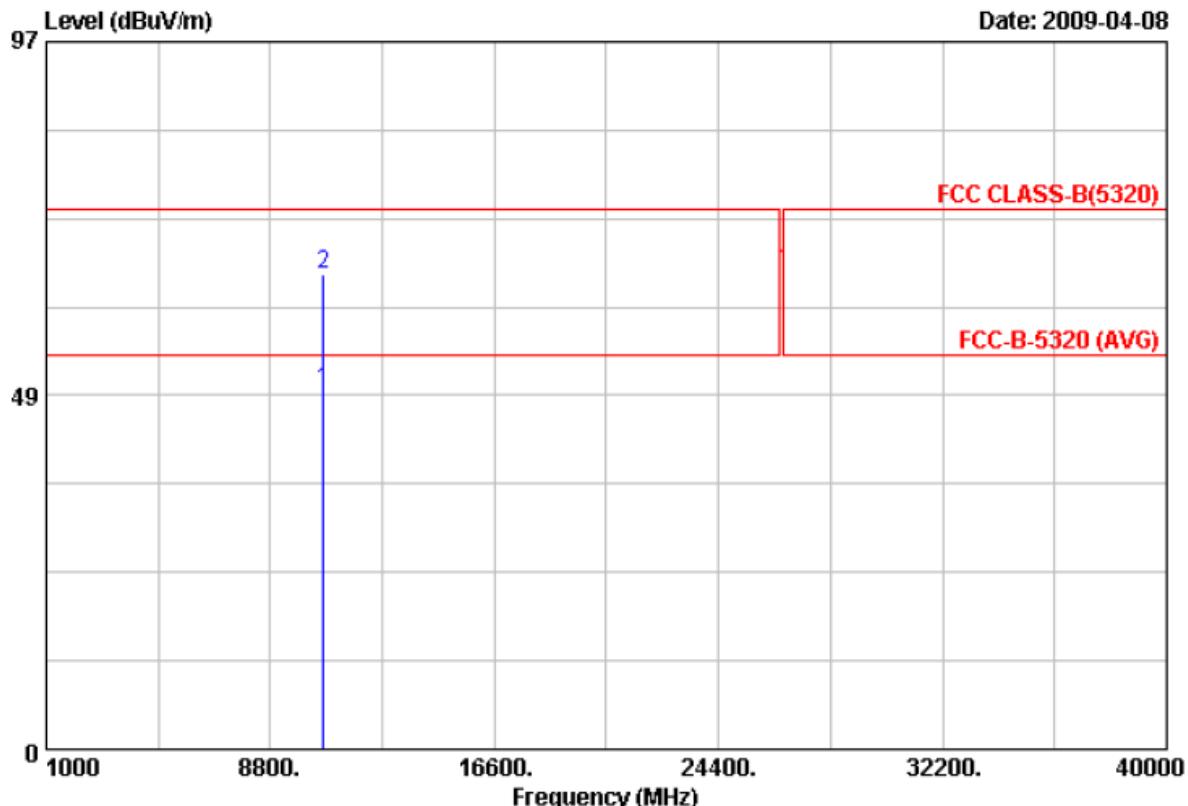
Item	Freq	Read		Result	Limit	Margin	Remark	Ant	Tab
		Value	Factor						
		MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	cm	Deg
1	10595.260	30.57	18.73	49.30	54.00	-4.70	Average	150	0
2	10599.930	43.53	18.74	62.27	74.00	-11.73	Peak	150	0

## Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.



Power	:	AC 120V	Pol/Phase	:	VERTICAL
Test Mode	:	802.11a, CH64	Temperature	:	23 °C
Memo	:	EUT with PC	Humidity	:	65 %



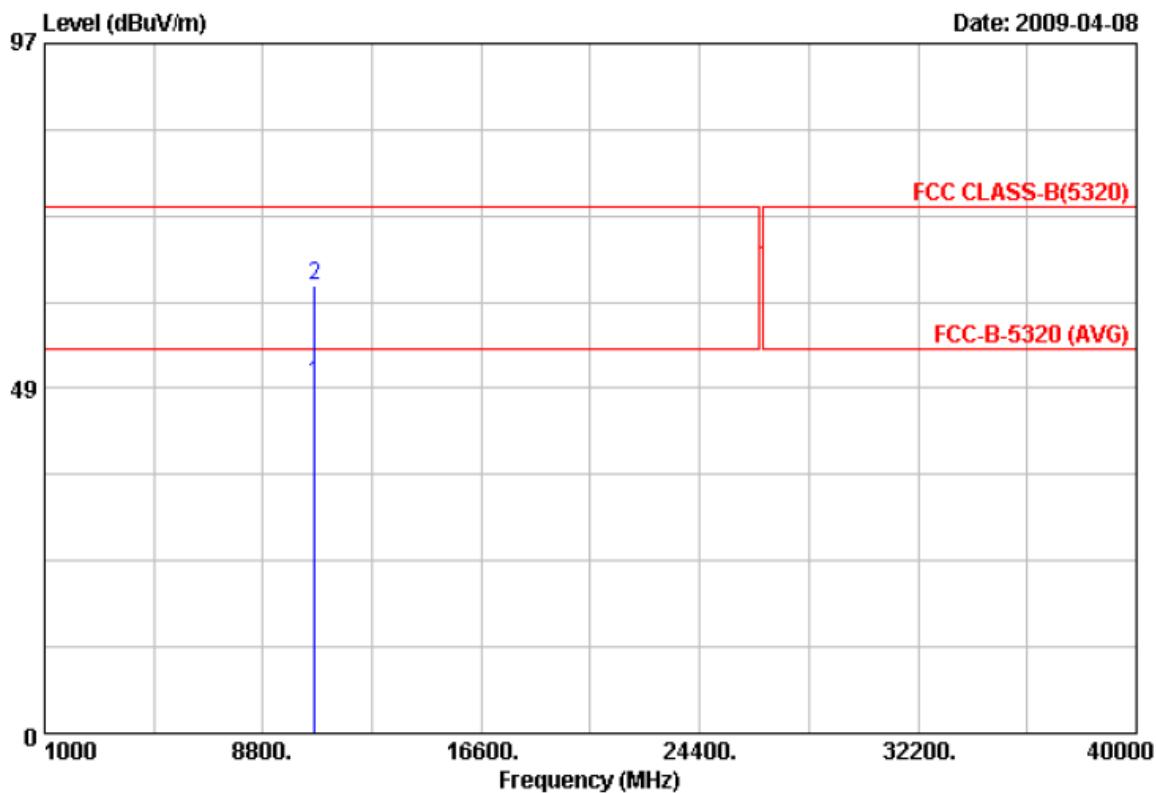
Item	Read			Margin	Remark	Ant Pos	Tab Pos
	Freq	Value	Factor				
	MHz	dBuV/m	dB	dBuV/m	dB	cm	Deg
1	10635.02	28.43	20.76	49.19	54.00	-4.81	Average 100 0
2	10640.15	44.25	20.77	65.02	74.00	-8.98	Peak 100 0

**Notes:**

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode	: 802.11a, CH64	Temperature	: 23 °C
Memo	: EUT with PC	Humidity	: 65 %



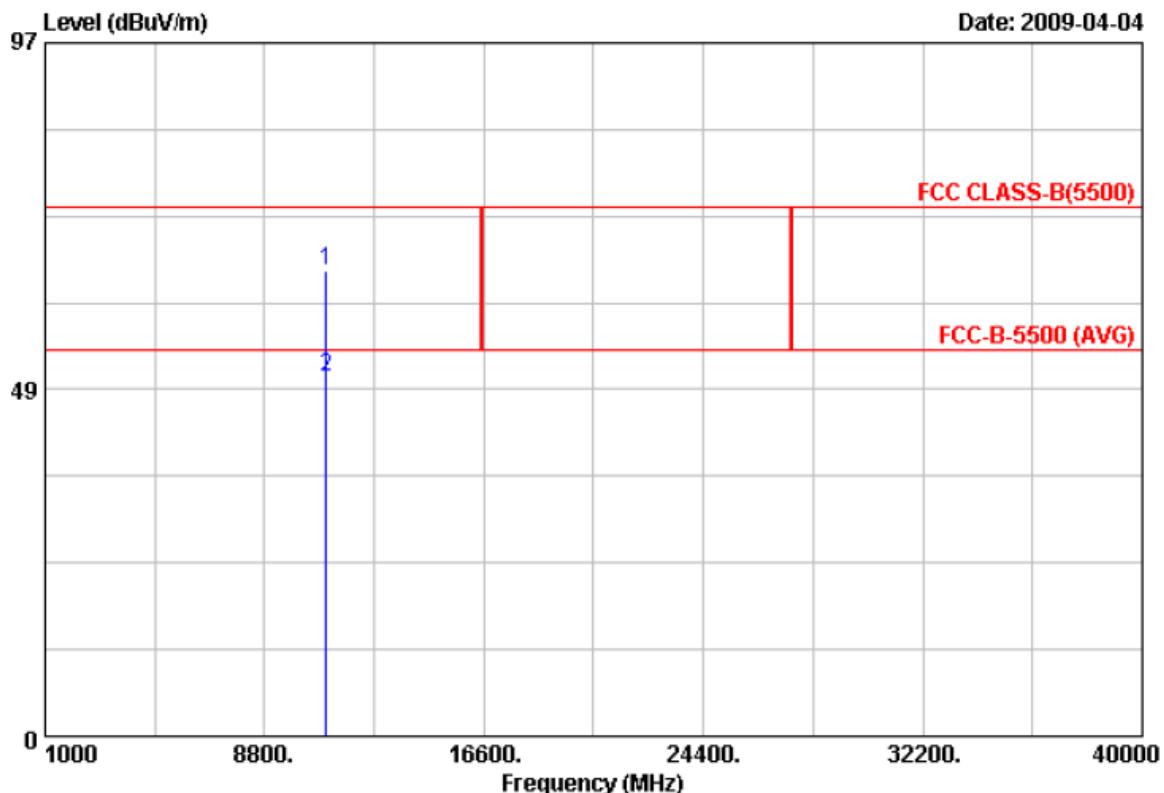
Item	Read			Result	Limit	Margin	Remark	Ant	Tab
	Freq	Value	Factor					Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	10636.66	30.43	18.85	49.28	54.00	-4.72	Average	100	0
2	10641.10	44.03	18.87	62.90	74.00	-11.10	Peak	100	0

## Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.



Power	:	AC 120V	Pol/Phase	:	VERTICAL
Test Mode	:	802.11a, CH100	Temperature	:	23 °C
Memo	:	EUT with PC	Humidity	:	65 %



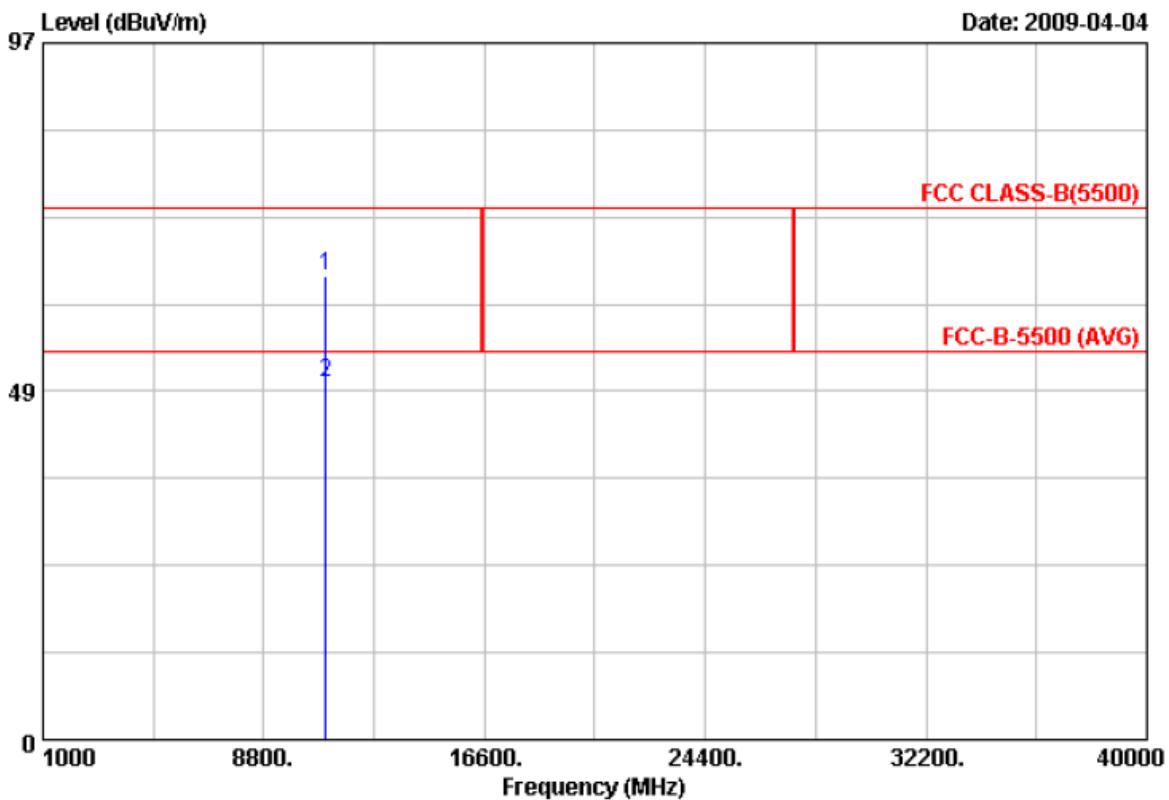
Item	Freq	Read		Result	Limit	Margin	Remark	Ant	Tab
		Value	Factor					Pos	Pos
		MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	cm	Deg
1	11000.12	43.53	21.69	65.22	74.00	-8.78	Peak	100	0
2	11004.84	28.58	21.71	50.29	54.00	-3.71	Average	100	0

**Notes:**

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode	: 802.11a, CH100	Temperature	: 23 °C
Memo	: EUT with PC	Humidity	: 65 %



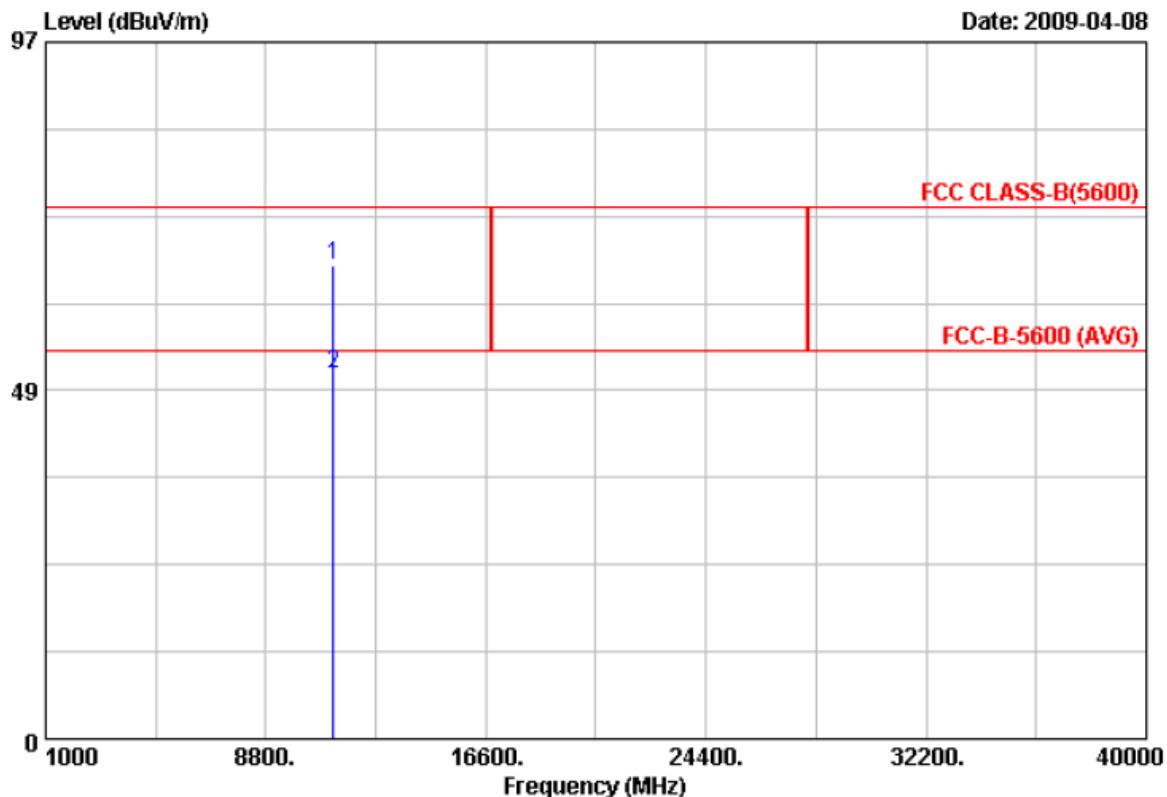
Item	Read		Factor	Result	Limit	Margin	Remark	Ant	Tab
	Freq	Value						Pos	Pos
	MHz	dBuV/m		dB	dBuV/m	dB		cm	Deg
1	11000.99	44.70	19.99	64.69	74.00	-9.31	Peak	100	0
2	11004.34	29.61	20.00	49.61	54.00	-4.39	Average	100	0

## Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.



Power	:	AC 120V	Pol/Phase	:	VERTICAL
Test Mode	:	802.11a, CH120	Temperature	:	23 °C
Memo	:	EUT with PC	Humidity	:	65 %



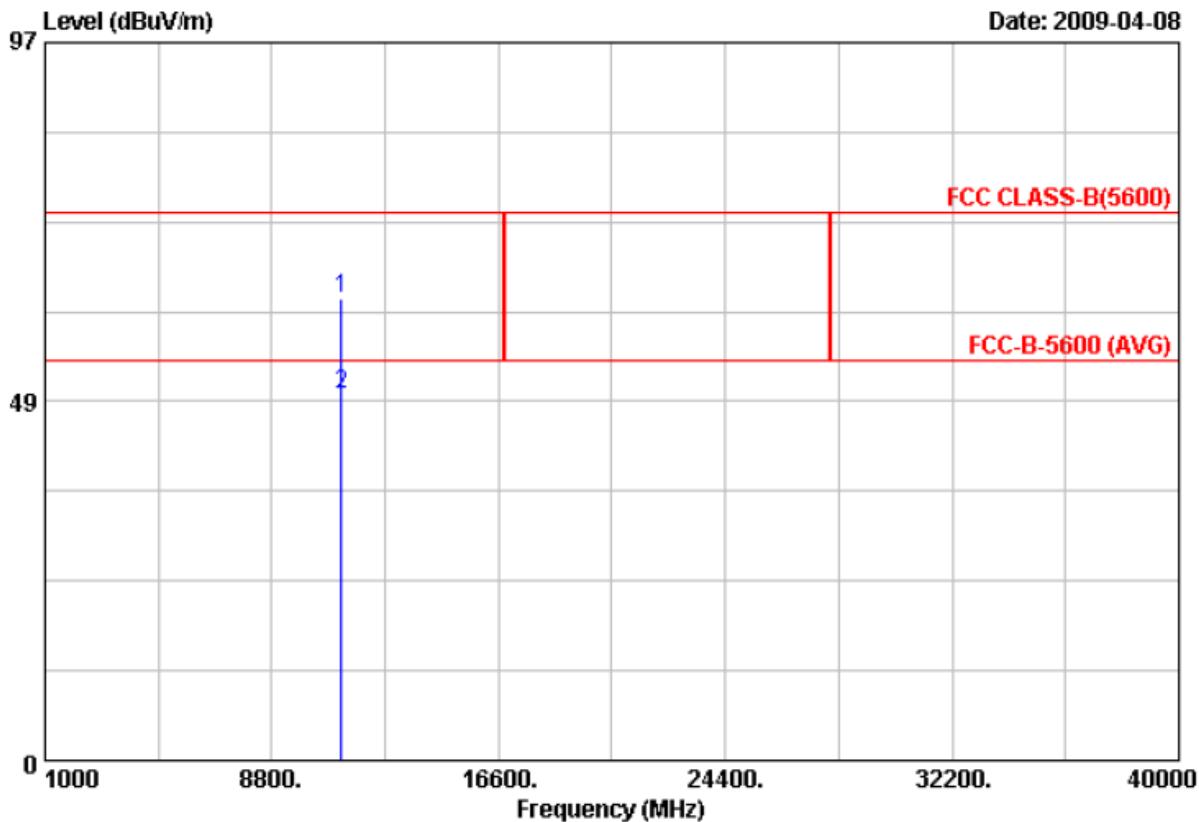
Item	Freq	Read			Margin	Remark	Ant	Tab
		Value	Factor	Result				
		MHz	dBuV/m	dB	dBuV/m	dB	cm	Deg
1	11199.830	43.56	22.48	66.04	74.00	-7.96	Peak	100 360
2	11199.900	28.20	22.48	50.68	54.00	-3.32	Average	100 360

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode	: 802.11a, CH120	Temperature	: 23 °C
Memo	: EUT with PC	Humidity	: 65 %



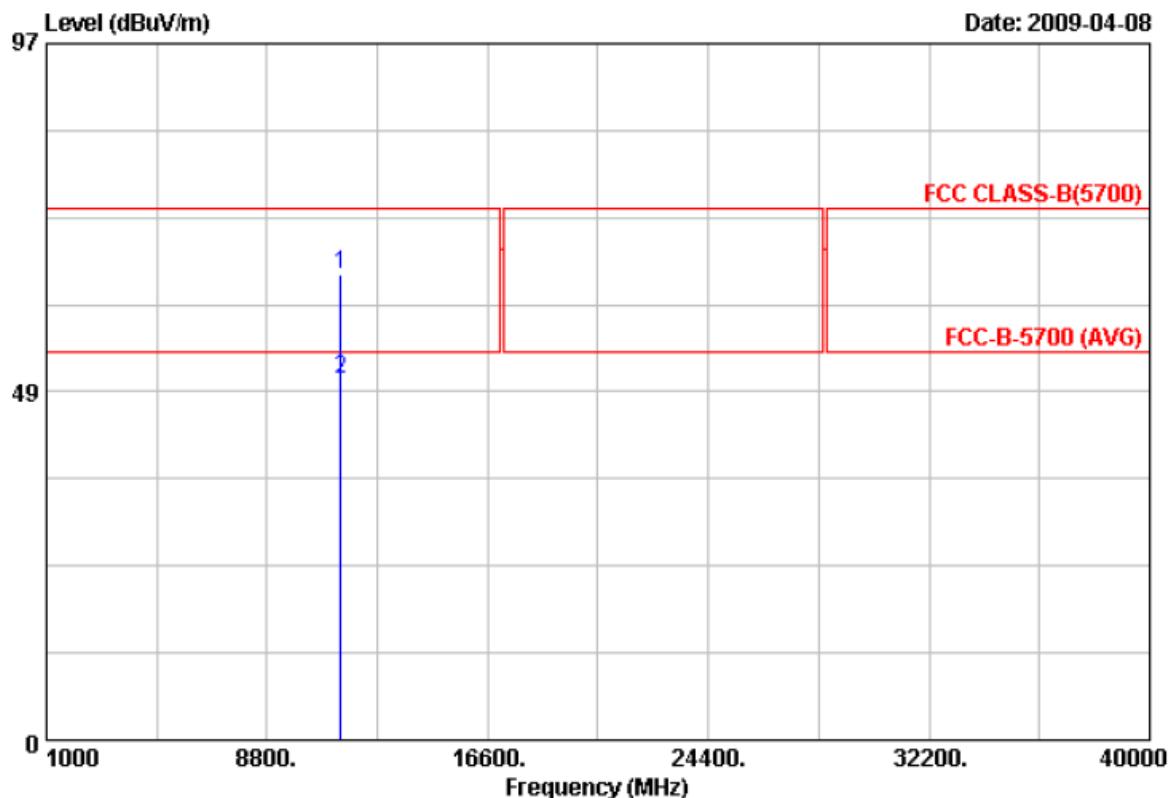
Item	Read				Ant			Tab	
	Freq	Value	Factor	Result	Limit	Margin	Remark	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	11200.230	42.01	20.35	62.36	74.00	-11.64	Peak	100	360
2	11200.440	29.17	20.35	49.52	54.00	-4.48	Average	100	360

## Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.



Power	:	AC 120V	Pol/Phase	:	VERTICAL
Test Mode	:	802.11a, CH140	Temperature	:	23 °C
Memo	:	EUT with PC	Humidity	:	65 %



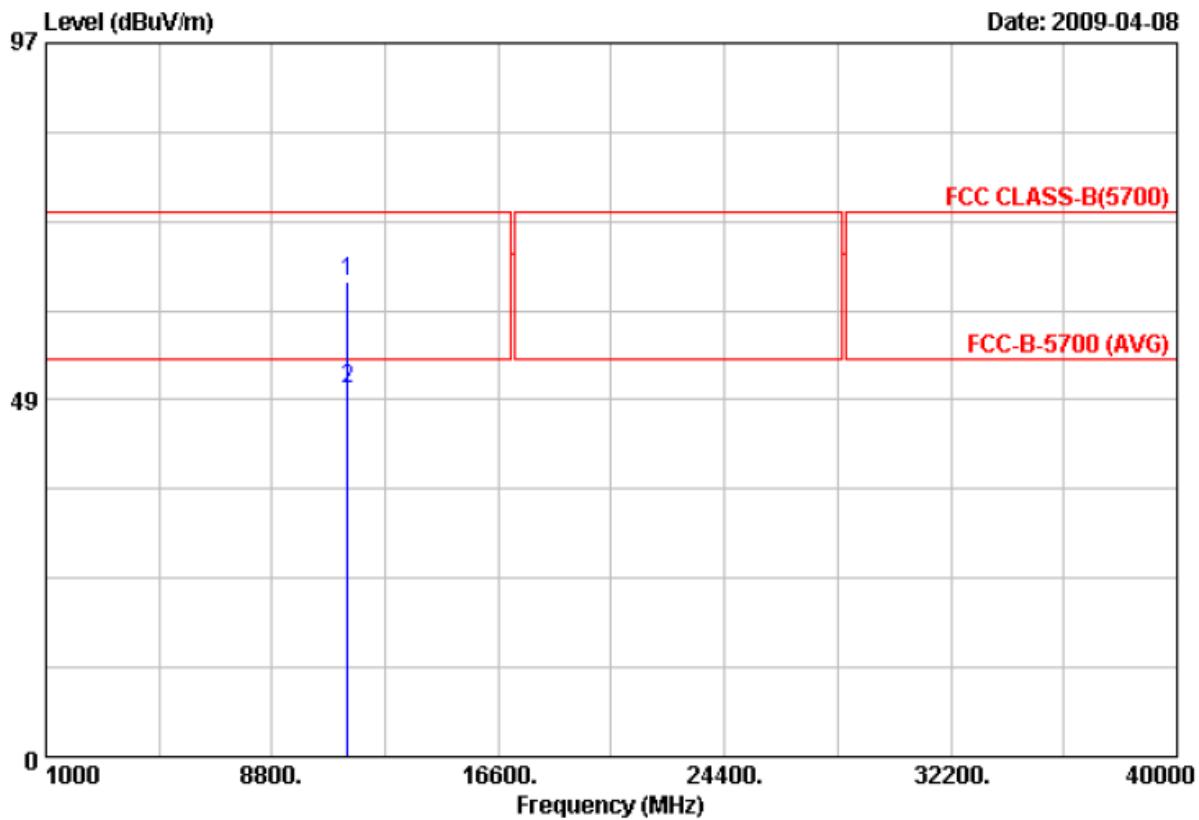
Item	Read			Result	Limit	Margin	Remark	Ant	Tab
	Freq	Value	Factor					Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	11399.830	41.67	23.27	64.94	74.00	-9.06	Peak	100	360
2	11400.340	26.94	23.28	50.22	54.00	-3.78	Average	100	360

**Notes:**

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode	: 802.11a, CH140	Temperature	: 23 °C
Memo	: EUT with PC	Humidity	: 65 %



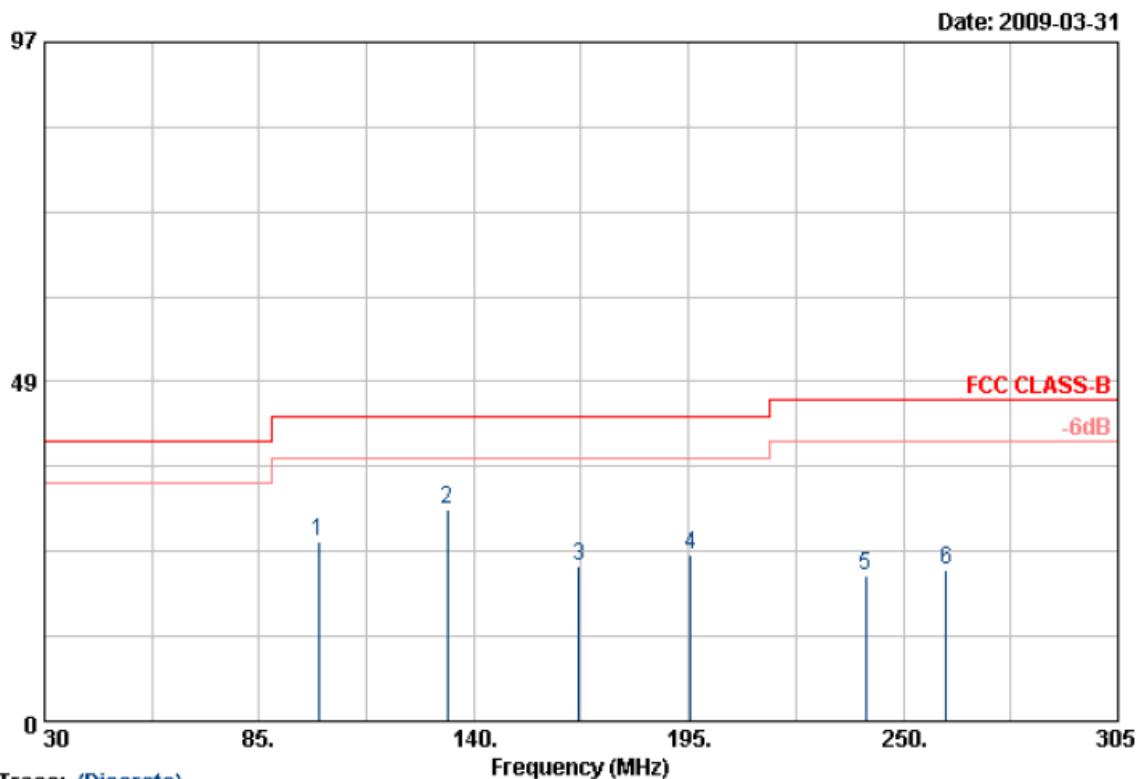
Item	Read			Limit	Margin	Remark	Ant	Tab
	Freq	Value	Factor					
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	cm	Deg
1	11401.470	43.75	20.72	64.47	74.00	-9.53	Peak	100 360
2	11404.860	29.32	20.73	50.05	54.00	-3.95	Average	100 360

**Notes:**

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode	: 802.11an HT20, CH36	Temperature	: 26 °C
Memo	: EUT with PC	Humidity	: 65 %



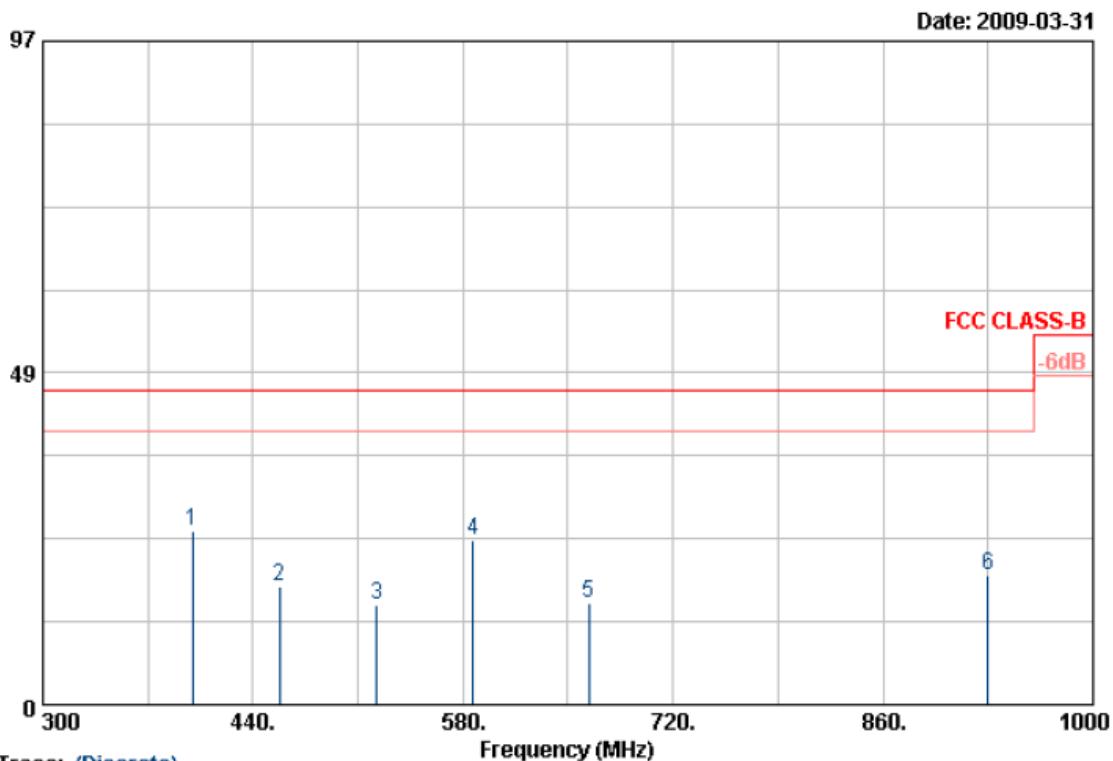
Item	Freq	Read		Result	Limit	Margin	Remark	Ant	Tab
		Value	Factor					Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	100.125	49.25	-23.60	25.65	43.50	-17.85	Peak	100	0
2	133.125	53.90	-23.55	30.35	43.50	-13.15	Peak	100	0
3	166.950	47.56	-25.28	22.28	43.50	-21.22	Peak	100	0
4	195.550	46.10	-22.40	23.70	43.50	-19.80	Peak	100	0
5	240.375	47.42	-26.48	20.94	46.00	-25.06	Peak	100	0
6	261.000	48.40	-26.81	21.59	46.00	-24.41	Peak	100	0

## Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. According to technical experiences, all spurious emission of 802.11an HT20 mode at channel 36,44,48 are almost the same below 1GHz, so that the channel 36 was chosen as representative in final test.
5. The data is worse case.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode	: 802.11an HT20, CH36	Temperature	: 26 °C
Memo	: EUT with PC	Humidity	: 65 %



## Trace: (Discrete)

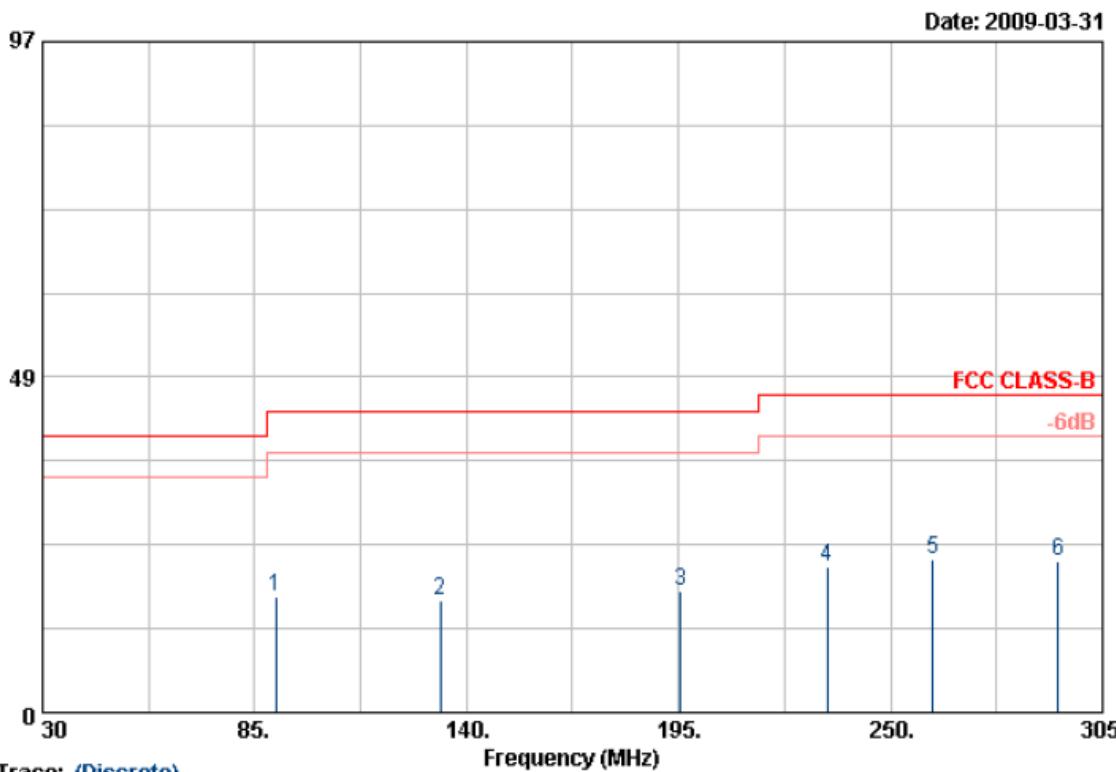
Item	Freq	Read		Result	Limit	Margin	Remark	Ant	Tab
		Value	Factor					Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	399.400	50.81	-25.42	25.39	46.00	-20.61	Peak	150	0
2	457.500	44.58	-27.29	17.29	46.00	-28.71	Peak	150	0
3	522.600	42.78	-28.31	14.47	46.00	-31.53	Peak	150	0
4	587.000	50.60	-26.43	24.17	46.00	-21.83	Peak	150	0
5	664.000	42.07	-27.24	14.83	46.00	-31.17	Peak	150	0
6	930.000	40.81	-21.82	18.99	46.00	-27.01	Peak	150	0

## Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. According to technical experiences, all spurious emission of 802.11an HT20 mode at channel 36,44,48 are almost the same below 1GHz, so that the channel 36 was chosen as representative in final test.
5. The data is worse case.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode	: 802.11an HT20, CH36	Temperature	: 26 °C
Memo	: EUT with PC	Humidity	: 65 %



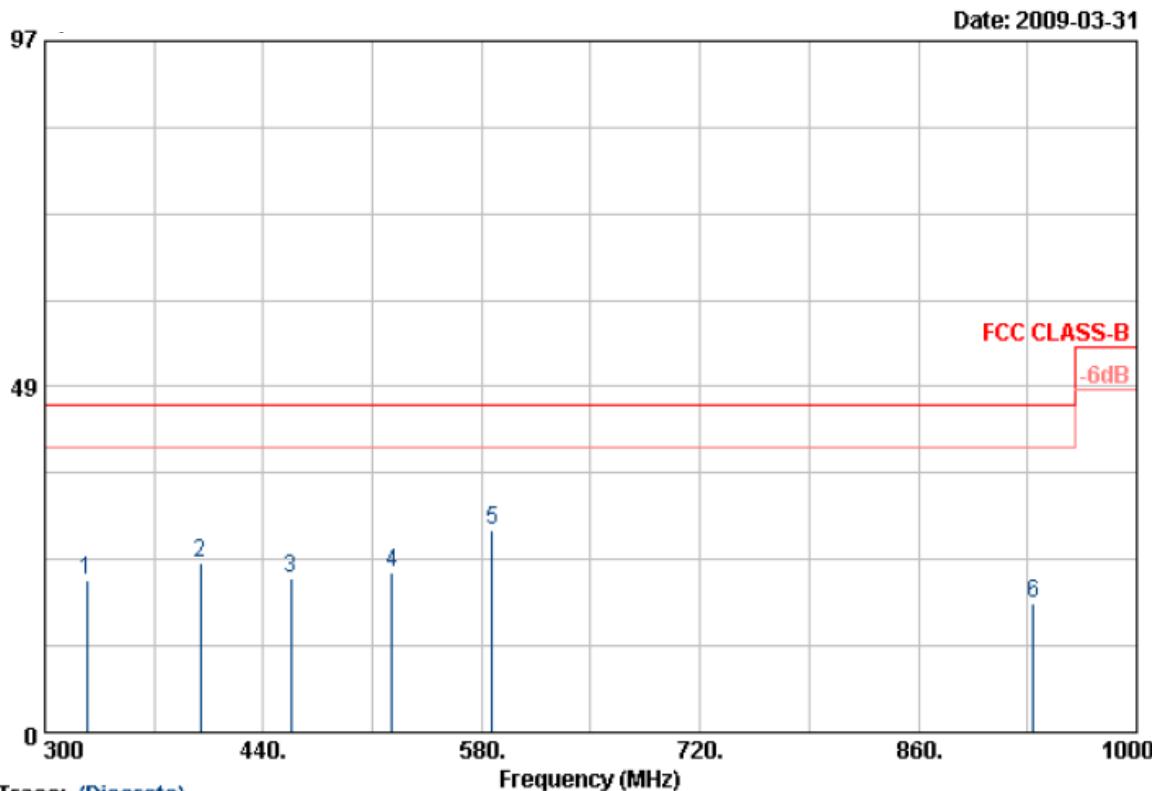
Item	Freq	Read		Result	Limit	Margin	Remark	Ant	Tab
		Value	Factor					Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	90.500	47.66	-30.85	16.81	43.50	-26.69	Peak	100	0
2	133.125	47.13	-30.79	16.34	43.50	-27.16	Peak	100	0
3	195.550	47.73	-30.09	17.64	43.50	-25.86	Peak	100	0
4	233.500	51.15	-30.06	21.09	46.00	-24.91	Peak	100	0
5	261.000	50.87	-28.64	22.23	46.00	-23.77	Peak	100	0
6	293.450	50.17	-28.38	21.79	46.00	-24.21	Peak	100	0

## Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. According to technical experiences, all spurious emission of 802.11an HT20 mode at channel 36,44,48 are almost the same below 1GHz, so that the channel 36 was chosen as representative in final test.
5. The data is worse case.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode	: 802.11an HT20, CH36	Temperature	: 26 °C
Memo	: EUT with PC	Humidity	: 65 %



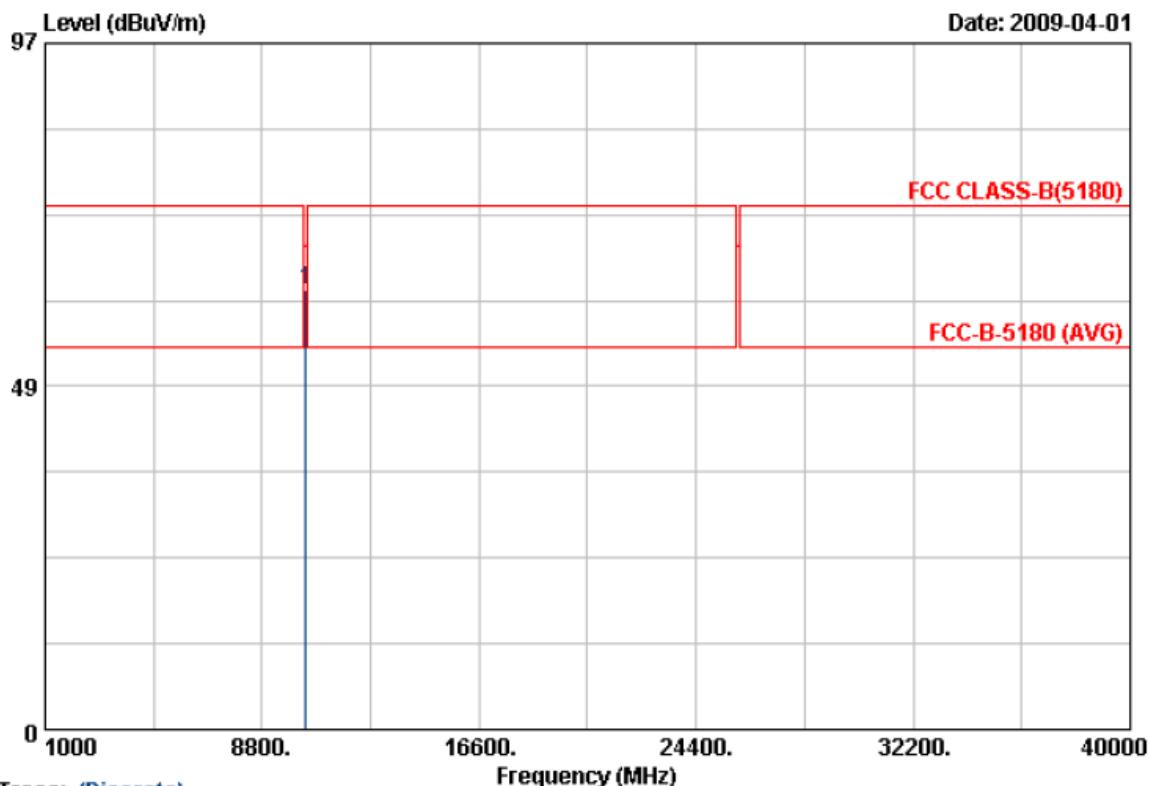
Item	Freq	Read		Result	Limit	Margin	Remark	Ant	Tab
		Freq	Value					Pos	Pos
MHz dBuV/m dB dBuV/m dB cm Deg									
1	326.600	49.24	-27.96	21.28	46.00	-24.72	Peak	150	0
2	399.400	52.73	-28.96	23.77	46.00	-22.23	Peak	150	0
3	457.500	46.01	-24.51	21.50	46.00	-24.50	Peak	150	0
4	522.600	48.55	-26.05	22.50	46.00	-23.50	Peak	150	0
5	587.000	51.86	-23.62	28.24	46.00	-17.76	Peak	150	0
6	933.500	42.01	-23.82	18.19	46.00	-27.81	Peak	150	0

## Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. According to technical experiences, all spurious emission of 802.11an HT20 mode at channel 36,44,48 are almost the same below 1GHz, so that the channel 36 was chosen as representative in final test.
5. The data is worse case.



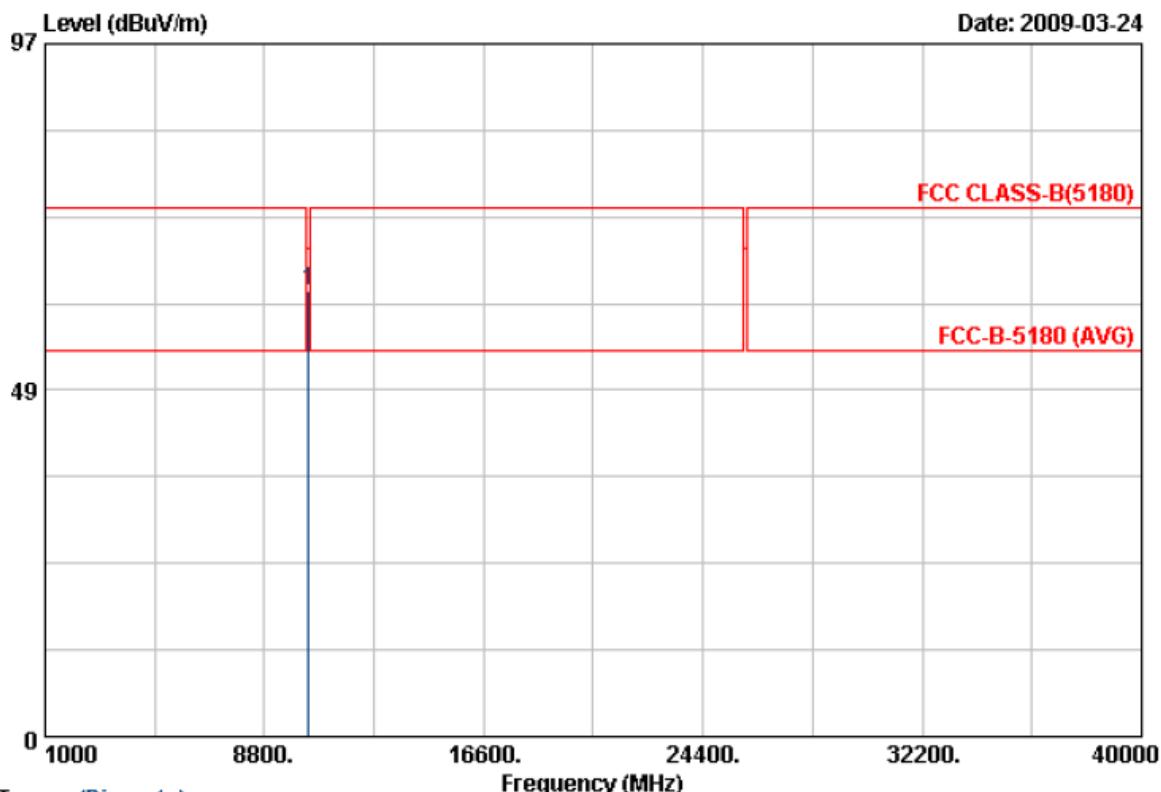
Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode	: 802.11an HT20, CH36	Temperature	: 22 °C
Memo	: EUT with PC	Humidity	: 65 %

**Notes:**

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.



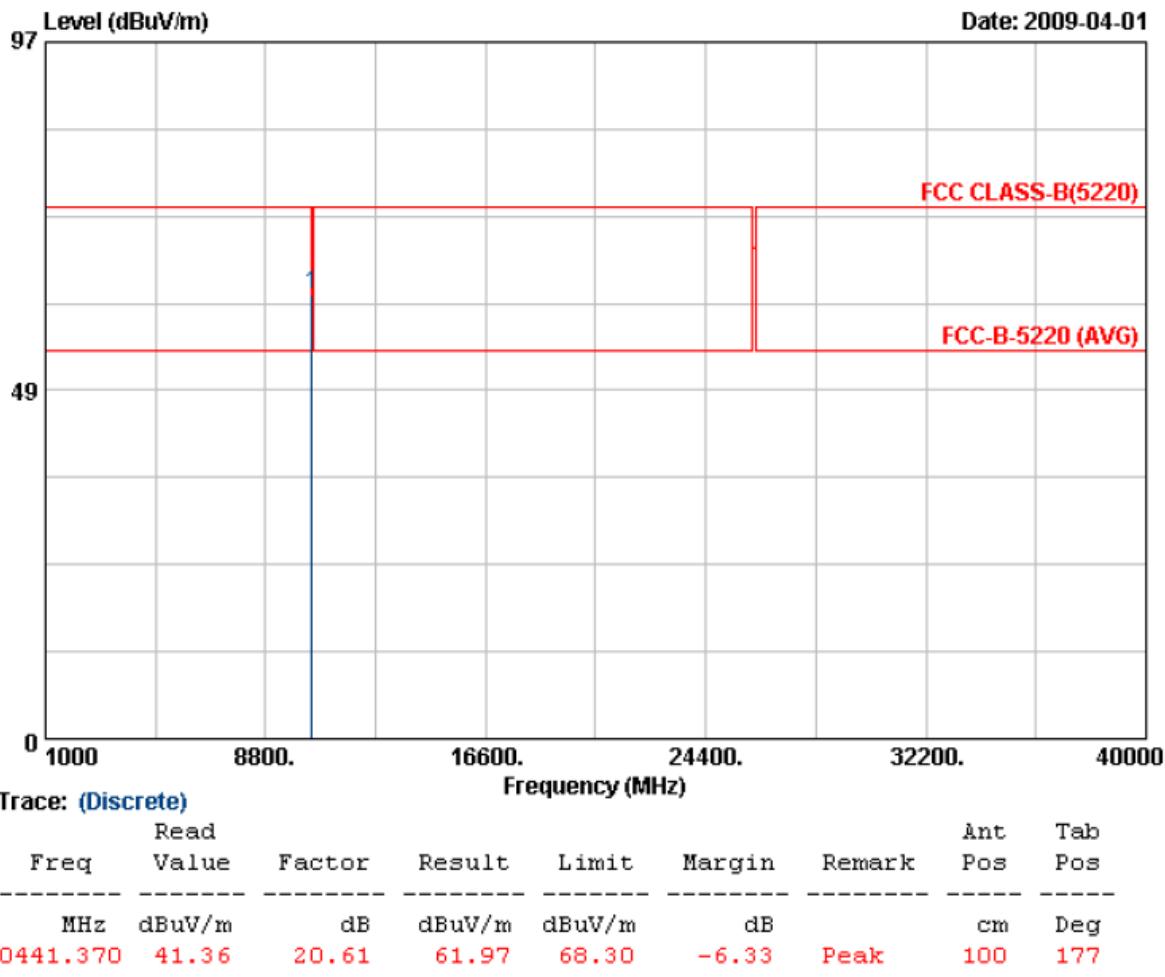
Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode	: 802.11an HT20, CH36	Temperature	: 22 °C
Memo	: EUT with PC	Humidity	: 65 %

**Notes:**

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.

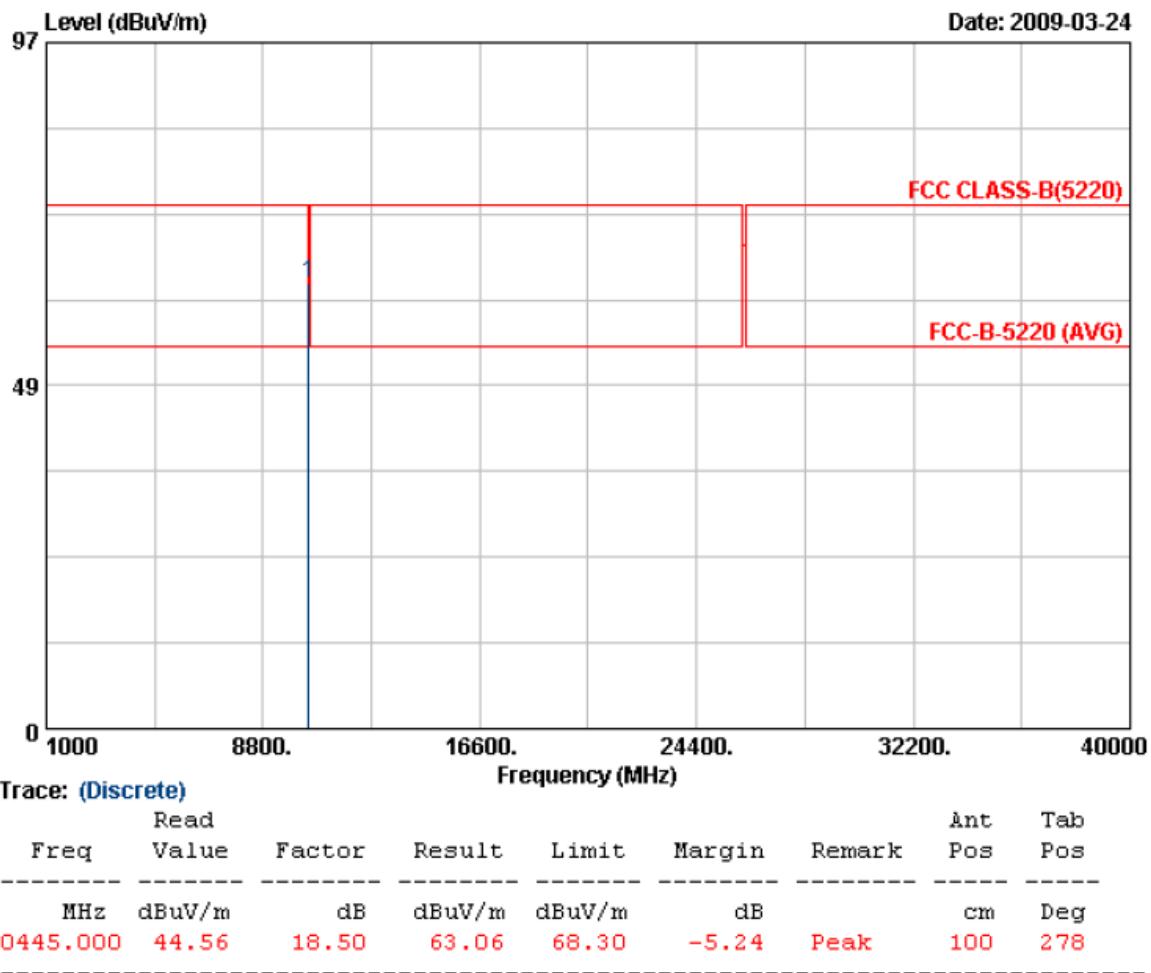


Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode	: 802.11an HT20, CH44	Temperature	: 22 °C
Memo	: EUT with PC	Humidity	: 65 %



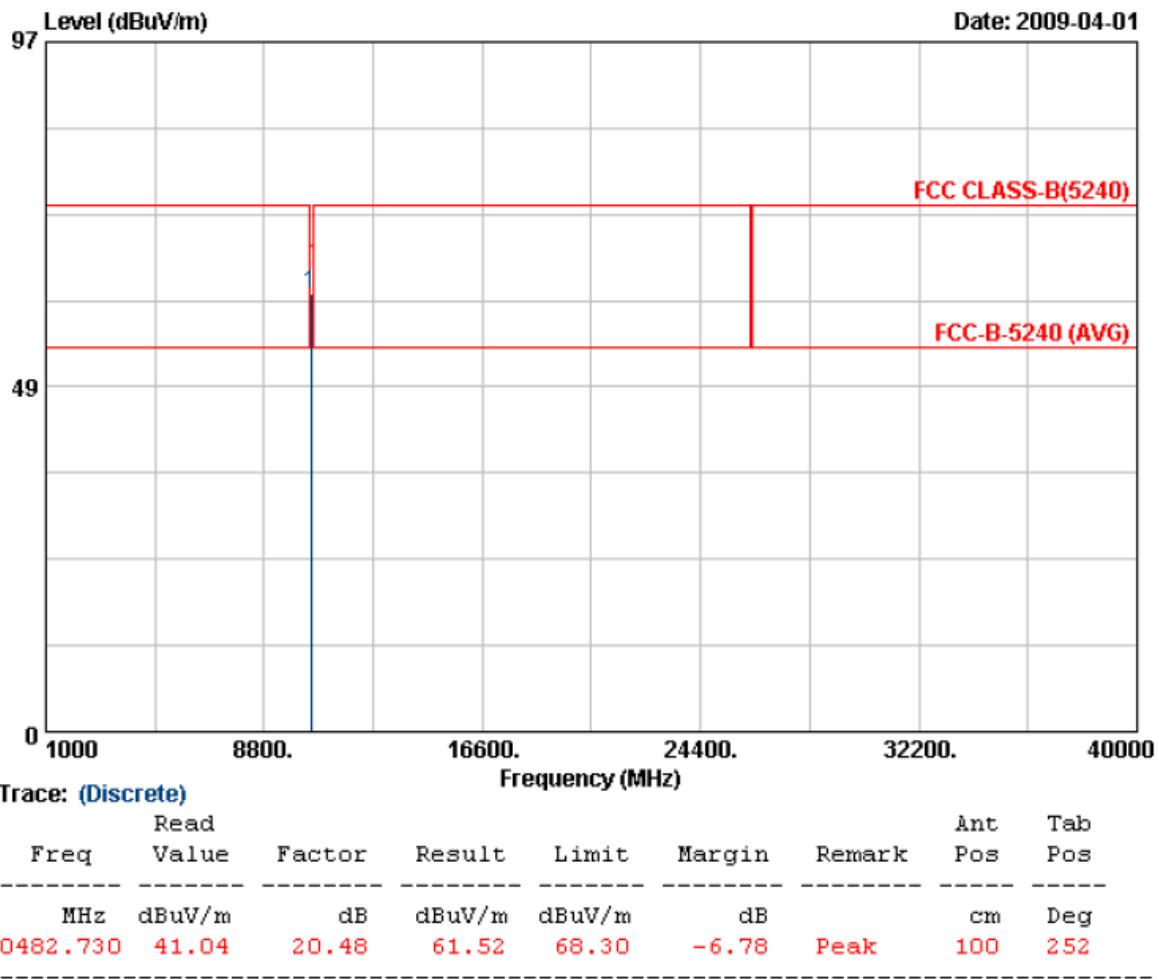


Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode	: 802.11an HT20, CH44	Temperature	: 22 °C
Memo	: EUT with PC	Humidity	: 65 %





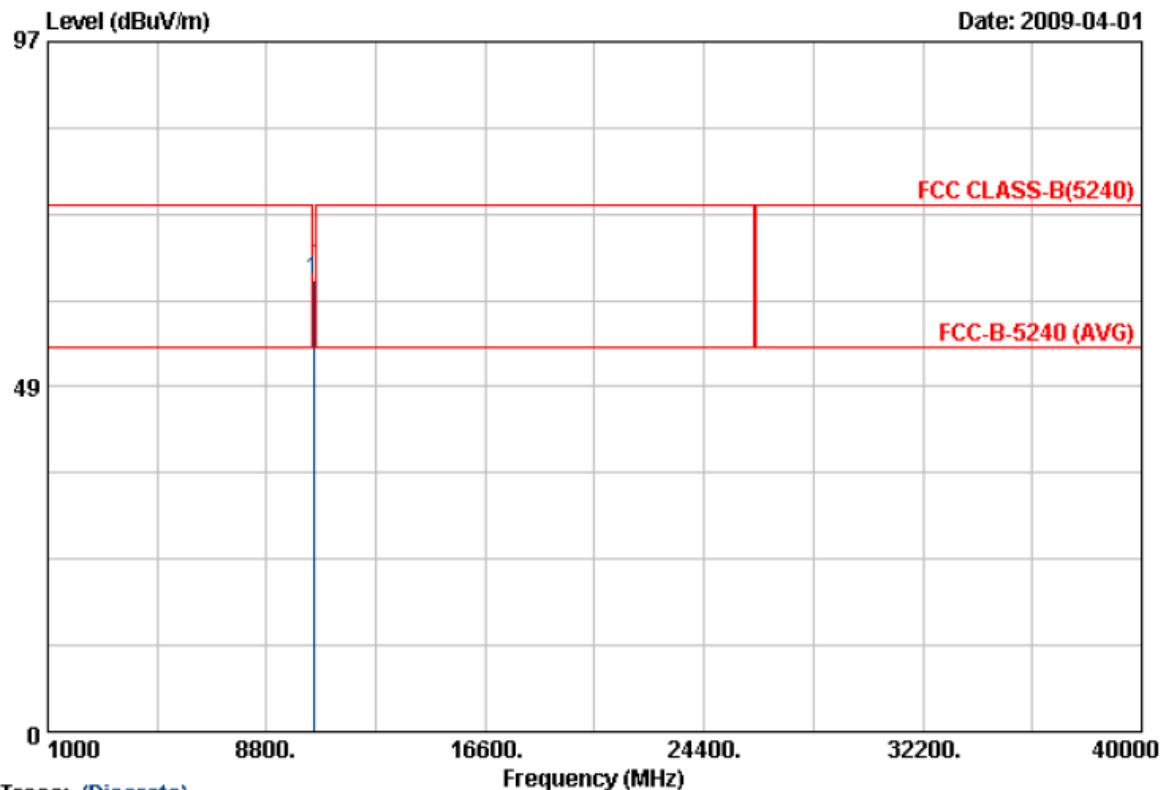
Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode	: 802.11an HT20, CH48	Temperature	: 22 °C
Memo	: EUT with PC	Humidity	: 65 %

**Notes:**

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.



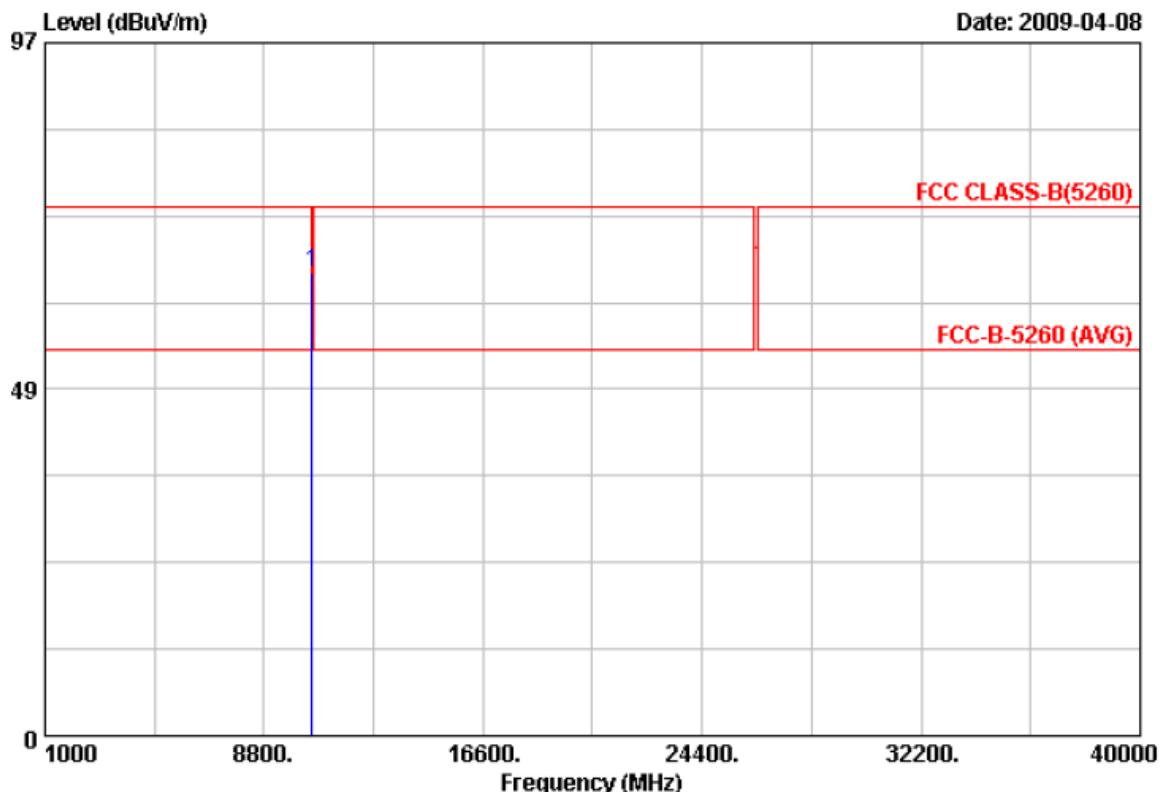
Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode	: 802.11an HT20, CH48	Temperature	: 22 °C
Memo	: EUT with PC	Humidity	: 65 %

**Notes:**

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.



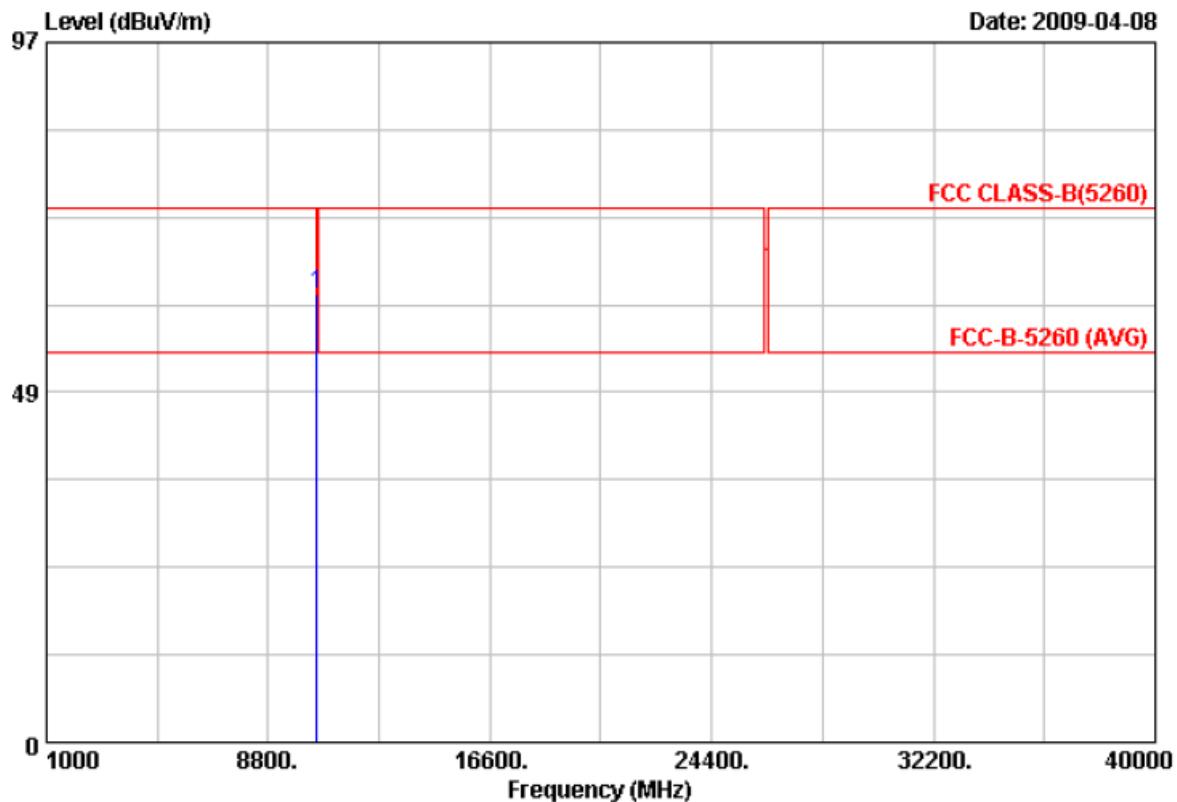
Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode	: 802.11an HT20, CH56	Temperature	: 23 °C
Memo	: EUT with PC	Humidity	: 65 %

**Notes:**

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode	: 802.11an HT20, CH56	Temperature	: 23 °C
Memo	: EUT with PC	Humidity	: 65 %



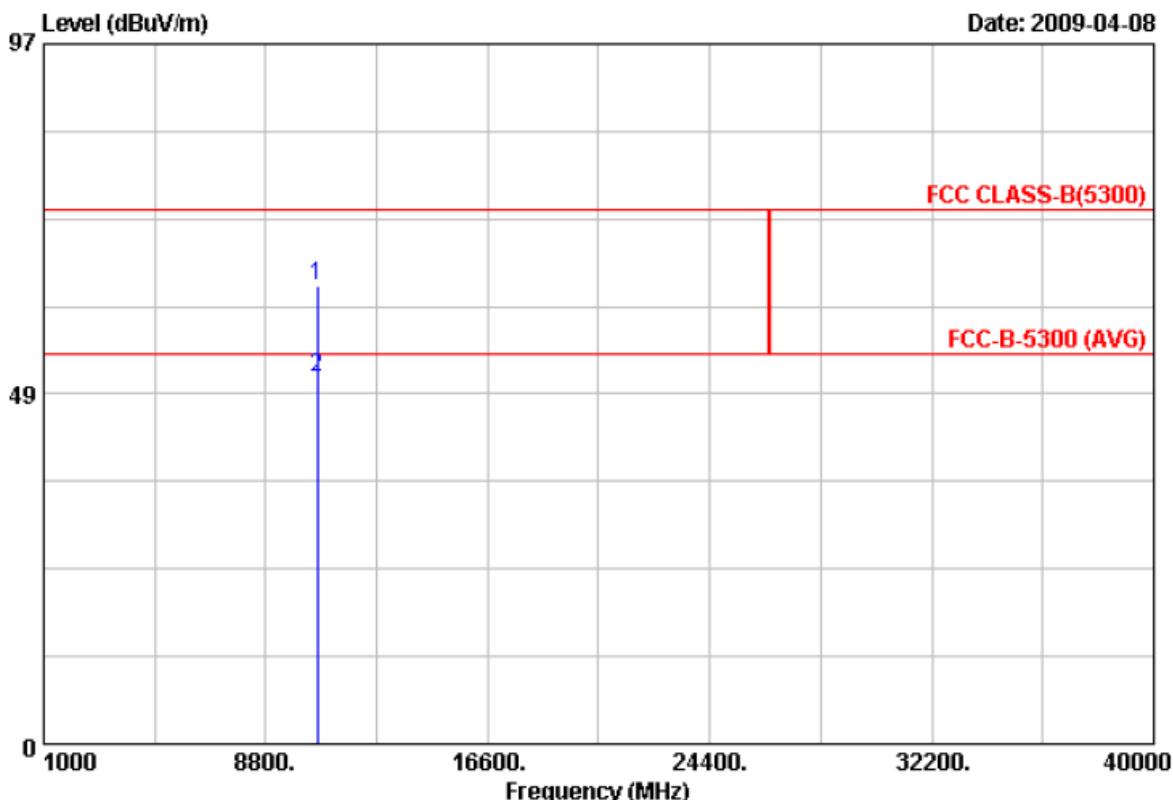
Item	Read Freq	Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	10519.610	43.75	18.49	62.24	68.30	-6.06	Peak	100	0

**Notes:**

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode	: 802.11an HT20, CH60	Temperature	: 23 °C
Memo	: EUT with PC	Humidity	: 65 %



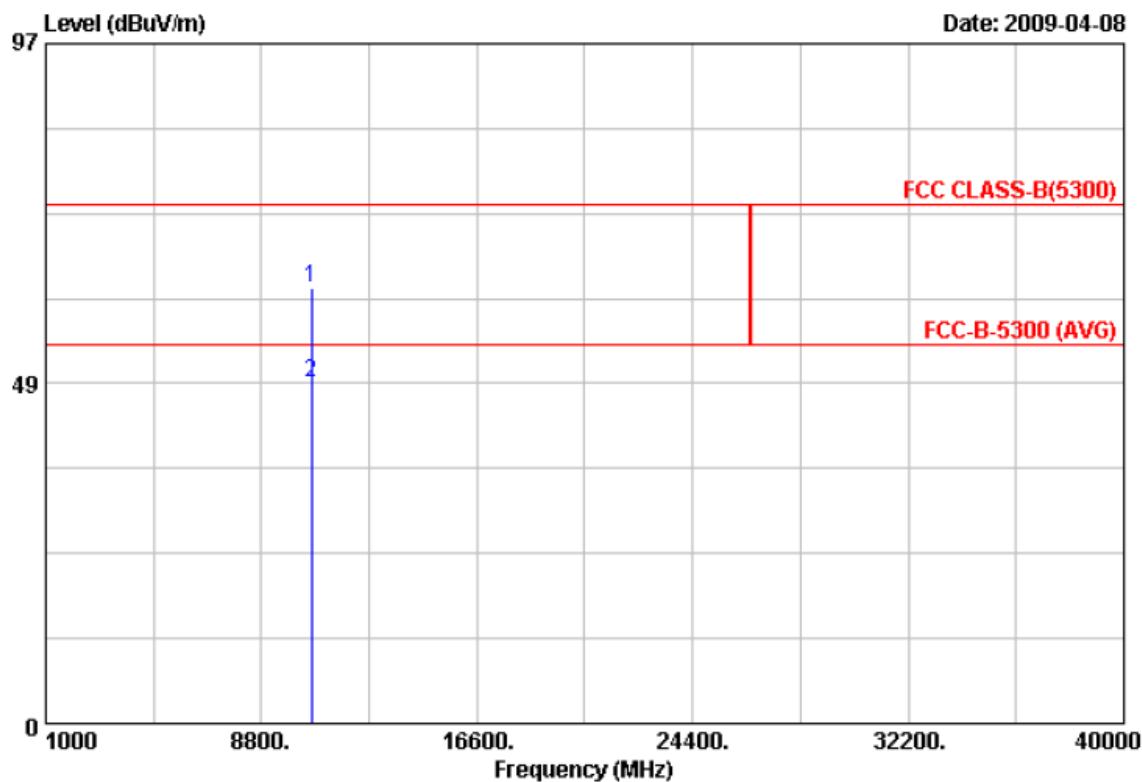
Item	Read		Result	Limit	Margin	Remark	Ant	Tab
	Freq	Value						
1	10600.280	42.73	20.67	63.40	74.00	-10.60	Peak	100 0
2	10600.300	30.11	20.67	50.78	54.00	-3.22	Average	100 0

**Notes:**

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode	: 802.11an HT20, CH60	Temperature	: 23 °C
Memo	: EUT with PC	Humidity	: 65 %



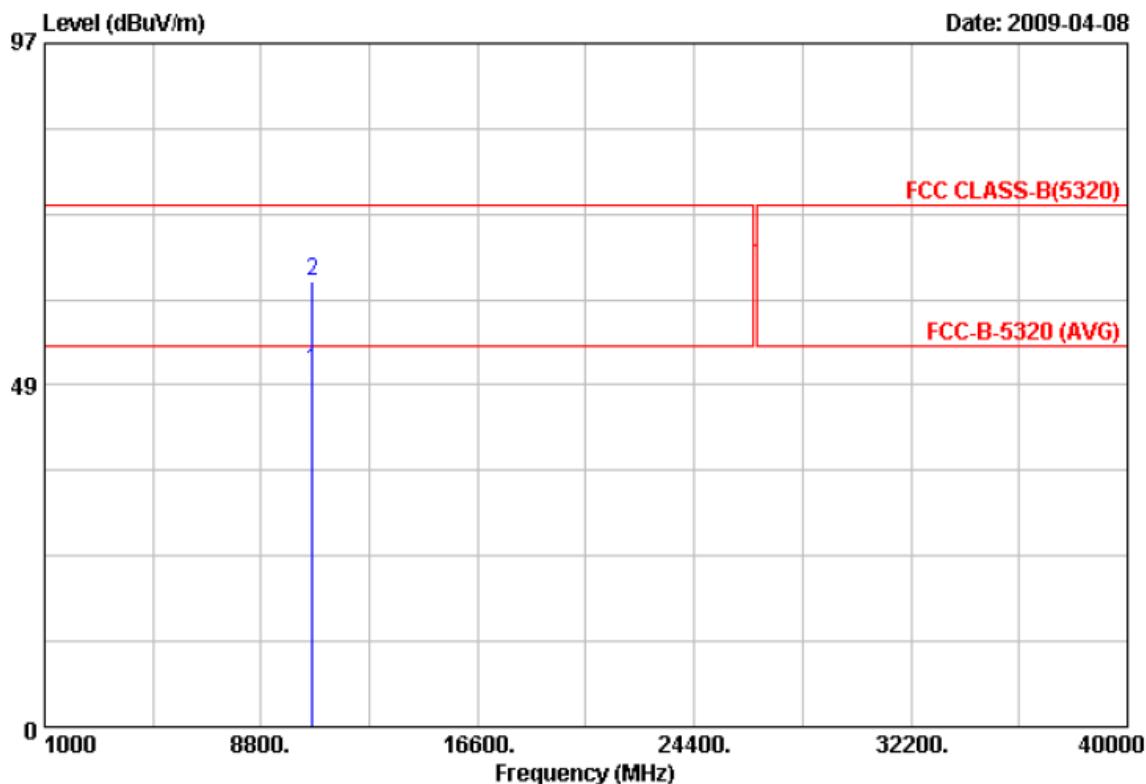
Item	Freq	Read		Result	Limit	Margin	Remark	Ant	Tab
		Value	Factor					Pos	Pos
		MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	cm	Deg
1	10599.910	43.28	18.74	62.02	74.00	-11.98	Peak	100	0
2	10600.220	29.97	18.74	48.71	54.00	-5.29	Average	100	0

## Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode	: 802.11an HT20, CH64	Temperature	: 23 °C
Memo	: EUT with PC	Humidity	: 65 %



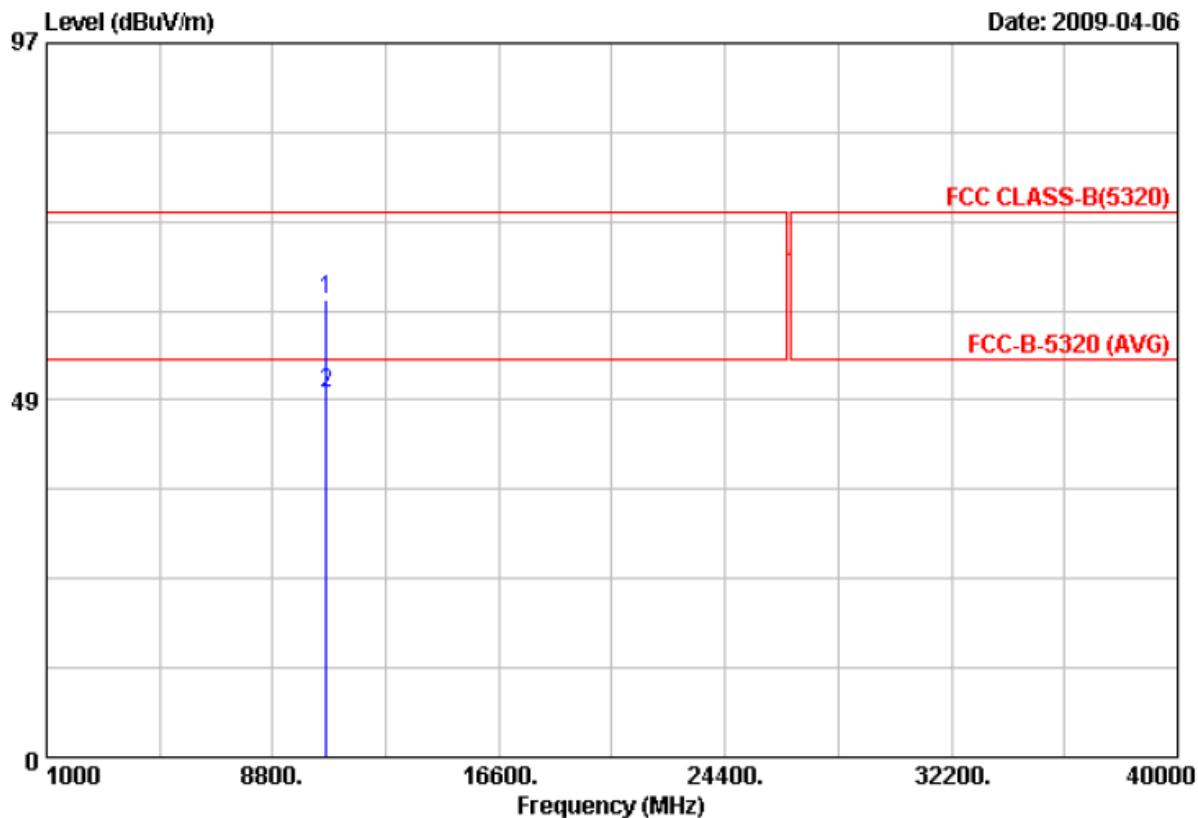
Item	Freq	Read		Result	Limit	Margin	Remark	Ant	Tab
		Value	Factor						
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	10639.420	29.76	20.77	50.53	54.00	-3.47	Average	100	0
2	10640.020	42.49	20.77	63.26	74.00	-10.74	Peak	100	0

## Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode	: 802.11an HT20, CH64	Temperature	: 23 °C
Memo	: EUT with PC	Humidity	: 65 %



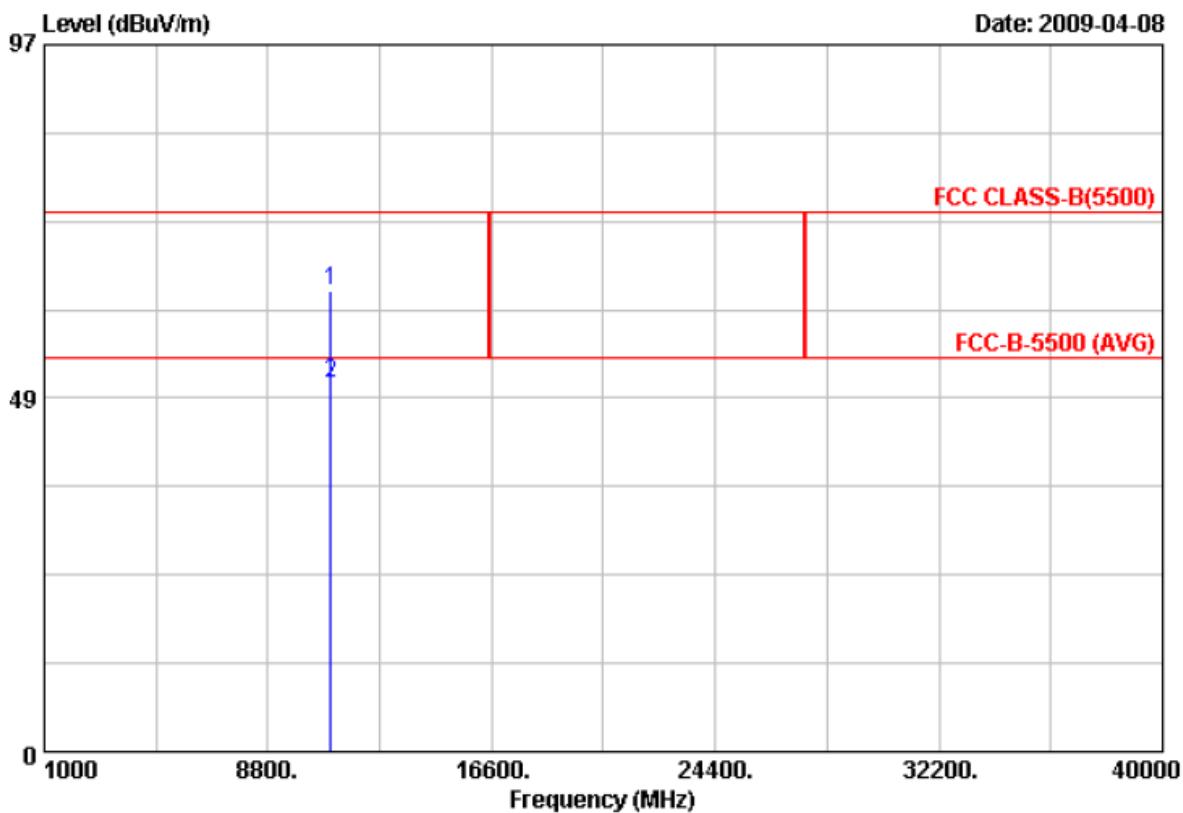
Item	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	cm	Deg
1	10640.080	43.41	18.86	62.27	74.00	-11.73	Peak	100 0
2	10640.660	30.69	18.86	49.55	54.00	-4.45	Average	100 0

## Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode	: 802.11an HT20, CH100	Temperature	: 23 °C
Memo	: EUT with PC	Humidity	: 65 %



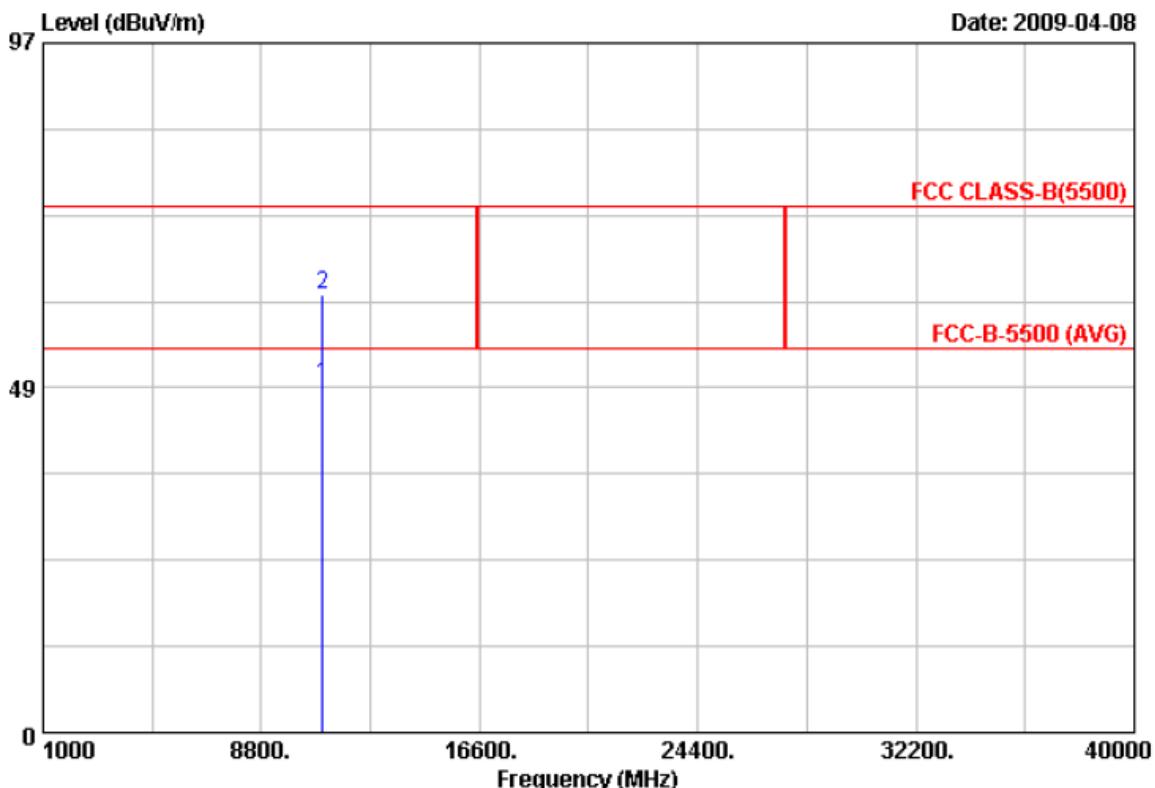
Item	Read		Factor	Result	Limit	Margin	Remark	Ant	Tab
	Freq	Value						Pos	Pos
	MHz	dBuV/m		dB	dBuV/m	dBuV/m	dB	cm	Deg
1	10999.610	41.57	21.69	63.26	74.00	-10.74	Peak	100	0
2	10999.630	28.84	21.69	50.53	54.00	-3.47	Average	100	0

## Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode	: 802.11an HT20, CH100	Temperature	: 23 °C
Memo	: EUT with PC	Humidity	: 65 %



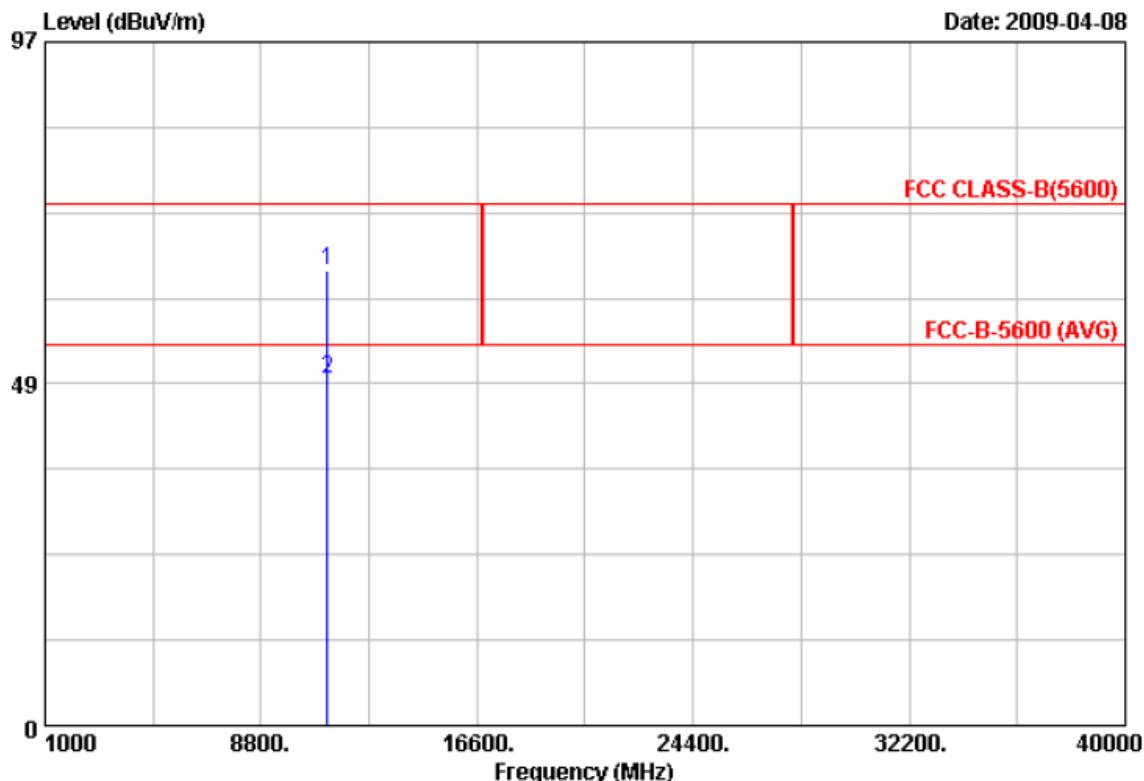
Item	Freq	Read		Result	Limit	Margin	Remark	Ant	Tab	Ant	Tab
		Value	Factor								
		MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	cm	Deg		
1	10999.880	28.87	19.99	48.86	54.00	-5.14	Average	100	0		
2	11000.200	41.65	19.99	61.64	74.00	-12.36	Peak	100	0		

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode	: 802.11an HT20, CH120	Temperature	: 23 °C
Memo	: EUT with PC	Humidity	: 65 %



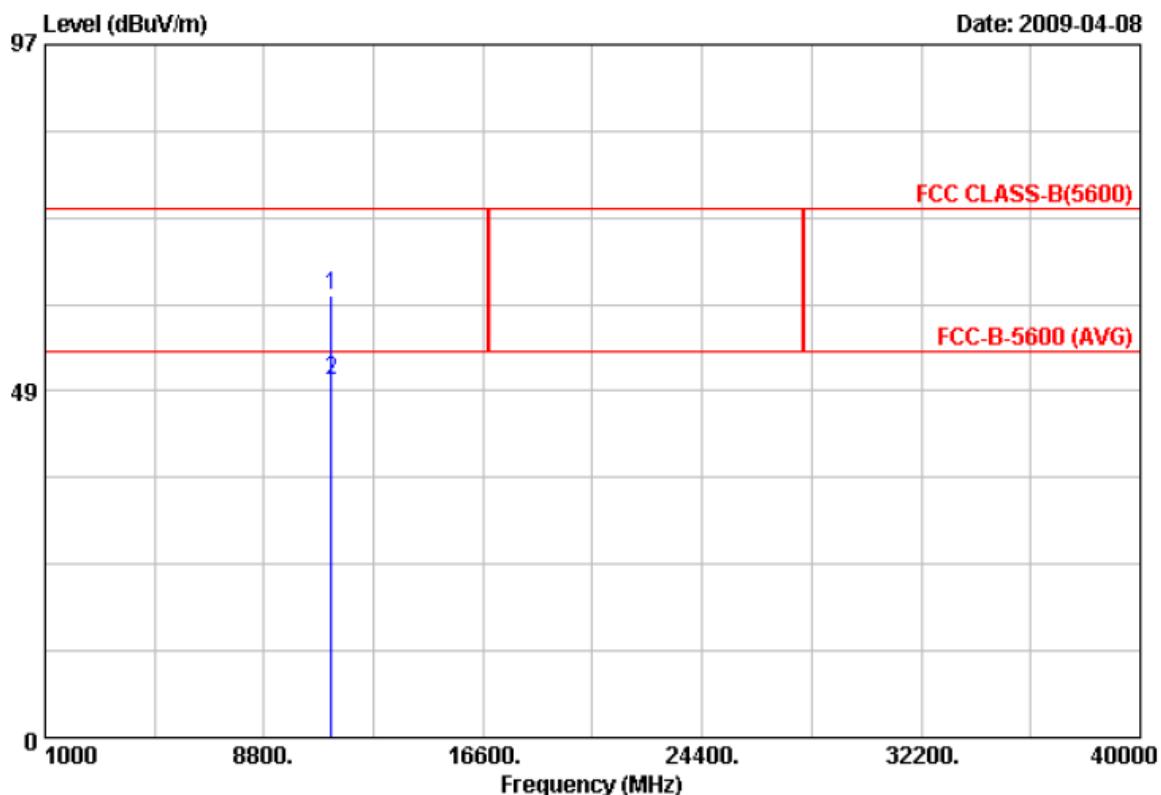
Item	Read			Margin	Remark	Ant	Tab	Pos	Pos
	Freq	Value	Factor						
1	11199.930	42.16	22.48	64.64	74.00	-9.36	Peak	100	0
2	11200.070	26.66	22.48	49.14	54.00	-4.86	Average	100	0

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode	: 802.11an HT20, CH120	Temperature	: 23 °C
Memo	: EUT with PC	Humidity	: 65 %



Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.