



FCC TEST REPORT

According to

FCC Rules and Regulations

Part 15 Subpart C

Applicant	: D-Link Corporation
Address	: 17595 Mt. Herrmann Street, Fountain Valley, CA 92708, USA
Equipment	: SMB Wireless N Gigabit VPN Router
Model No.	: DSR-1000N
FCC ID	: KA2SR1000NA1
Trade Name	: D-Link

Laboratory Accreditation



Testing Laboratory
1332

- The test result refers exclusively to the test presented test model / sample.,
- 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.



Contents

1. Report of Measurements and Examinations	5
1.1 List of Measurements and Examinations	5
2. Test Configuration of Equipment under Test	6
2.1 Feature of Equipment under Test.....	6
2.2 RF Spec.....	7
2.3 Carrier Frequency of Channels	8
2.4 Test Mode and Test Software	9
2.5 Description of Test System.....	9
2.6 Connection Diagram of Test System.....	10
2.7 General Information of Test.....	11
2.8 Measurement Uncertainty	11
2.9 History of this test report	12
3. Antenna Requirements.....	13
3.1 Standard Applicable	13
3.2 Antenna Construction and Directional Gain	13
4. Test of Conducted Emission.....	14
4.1 Test Limit	14
4.2 Test Procedures	14
4.3 Typical Test Setup	15
4.4 Measurement Equipment	15
4.5 Test Result and Data	16
4.6 Test Photographs	28
5. Test of Radiated Emission	29
5.1 Test Limit	29
5.2 Test Procedures	29
5.3 Typical Test Setup	30
5.4 Measurement Equipment	30
5.5 Test Result and Data	31
5.6 Test Photographs	97
6. 6dB Bandwidth Measurement Data	98
6.1 Test Limit	98
6.2 Test Procedures	98
6.3 Test Setup Layout	98
6.4 Measurement Equipment	98
6.5 Test Result and Data	99
7. Maximum Peak Output Power	135
7.1 Test Limit	135
7.2 Test Procedures	135
7.3 Test Setup Layout	135
7.4 Measurement Equipment	135
7.5 Test Result and Data	135
8. Power Spectral Density	172
8.1 Test Limit	172
8.2 Test Procedures	172



8.3	Test Setup Layout	172
8.4	Measurement Equipment	172
8.5	Test Result and Data	173
9.	Band Edges Measurement	209
9.1	Test Limit	209
9.2	Test Procedure	209
9.3	Test Setup Layout	209
9.4	Measurement Equipment	209
9.5	Test Result and Data	210
9.6	Restrict Band Emission Measurement Data	253
10.	Restricted Bands of Operation	255
10.1	Labeling Requirement	255
Appendix A. Photographs of EUT		A1 ~ A10



CERTIFICATE OF COMPLIANCE

According to

FCC Rules and Regulations

Part 15 Subpart C

Applicant	: D-Link Corporation
Address	: 17595 Mt. Herrmann Street, Fountain Valley, CA 92708, USA
Equipment	: SMB Wireless N Gigabit VPN Router
Model No.	: DSR-1000N
FCC ID	: KA2SR1000NA1

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 C (2008)**.

The test was carried out on Feb. 26, 2010 at CerpPASS Technology Corp.

Signature



Jonson Lee
EMC/RF B.U. Senior Manager



1. Report of Measurements and Examinations

1.1 List of Measurements and Examinations

FCC Rule	Description of Test	Result
15.203	. Antenna Requirement	Pass
15.207	. Conducted Emission	Pass
15.209 15.247(d)	. Radiated Emission	Pass
15.247(a)(2)	. 6dB Bandwidth	Pass
15.247(b)	. Maximum Peak Output Power	Pass
15.247(d)	. 100kHz Bandwidth of Frequency Band Edges	Pass
15.247(e)	. Power Spectral Density	Pass
1.1307 1.1310 2.1091 2.1093	. RF Exposure Compliance	Pass



2. Test Configuration of Equipment under Test

2.1 Feature of Equipment under Test

WAN Interface:

- 2 10/100/1000 Mbps Gigabit Ethernet port for xDSL/Cable connection
- Complies with IEEE 802.3ab specification
- Support IEEE802.3x flow control in full duplex mode
- Support Auto Negotiation
- Support Auto MDI/MDIX

LAN Interface:

- Four ports 10/100/1000 Mbps Gigabit Ethernet switch
- Complies with IEEE 802.3ab specification
- Support IEEE802.3x flow control in full duplex mode
- Support Auto Negotiation
- Support Auto MDI/MDIX

Wireless Interface (2.4 GHz / 5 GHz):

- Follow IEEE 802.11n Draft 2.0 specification (TBD)
- Compatible with IEEE 802.11a specification
- Compatible with IEEE 802.11b specification
- Compatible with IEEE 802.11g specification

USB Interface:

- 2* Complies with USB 2.0 (High Speed) specification

Key Components:

- CPU: Cavium CN5010-500BG564-SCP
- Ethernet Switch: Broadcom BCM53115S
- Ethernet Transceiver: Broadcom B5081
- Flash: MXIC MX29GL256EHT2I-90Q
- DDR2: Samsung K4T1G164QE-HCE6
- USB Controller: NEC UPD720114GA-YEU-A
- RTC: Dallas/Maxim DS1337S+
- Clock Generator: IDT ICS8430S07AKILF



2.2 RF Spec.

Type of Modulation	802.11b: DSSS (CCK, DQPSK, DBPSK) 802.11g: OFDM (64-QAM, 16-QAM, QPSK, BPSK) 802.11a: OFDM (64-QAM, 16-QAM, QPSK, BPSK) 802.11n draft 2.0: OFDM (64-QAM, 16-QAM, QPSK, BPSK)
Data Rate	802.11b (11, 5.5, 2, 1 Mbps) 802.11g (54, 48, 36, 24, 18, 12, 9, 6 Mbps) 802.11a (54, 48, 36, 24, 18, 12, 9, 6 Mbps) 802.11n draft 2.0, 20MHz (130, 117, 104, 78, 58.5, 52, 39, 26, 19.5, 6.5 Mbps) 802.11n draft 2.0, 40MHz (270, 243, 216, 162, 135, 121.5, 108, 81, 54, 40, 27, 13.5 Mbps)
Number of Channels	802.11b/g/n draft 2.0, 20MHz: -USA, Canada and Taiwan: CH 1 ~ 11 (11channels) -Most European Countries: CH 1 ~ 13 (13channels) -France: CH 1 ~ 7 (7channels) 802.11n draft 2.0, 40MHz: -USA, Canada and Taiwan: CH 3 ~ 9 (7channels) -Most European Countries: CH 1 ~ 13 (13channels) -France: CH 3 ~ 5 (3channels) 802.11a/n draft 2.0, 20MHz: -USA, Canada and Taiwan: CH 36,40,44,48 (4channels) -Most European Countries: CH 36,40,44,48 (4channels) -France: CH 36,40,44,48 (4channels) 802.11a/n draft 2.0, 40MHz: -USA, Canada and Taiwan: CH 38,42,46 (3channels) -Most European Countries: CH 38,42,46 (3channels) -France: CH 38,42,46 (3channels)
Frequency Band	FCC/IC: 2412 ~ 2462 MHz, 5150 ~ 5250 MHz, 5725 ~ 5850 MHz EU: 2412 ~ 2472 MHz, 5150 ~ 5250 MHz
Output Power	FCC/IC: 802.11b: 18.36 dBm, 802.11g: 16.30 dBm, 802.11n: 17.31 dBm 802.11a: 16.31 dBm, 802.11an: 13.89 dBm. CE: 802.11b: 18.81 dBm, 802.11g: 17.04 dBm, 802.11n: 17.66 dBm 802.11a: 16.38 dBm, 802.11an: 12.73 dBm
Antenna Type and Gain	Dipole antenna / Ant1: 2dBi; Ant2: 2dBi; Ant3: 2dBi



2.3 Carrier Frequency of Channels

802.11b, 802.11g, 802.11n HT 20 (2412 ~ 2462MHz)

Channel	Frequency(MHz)	Channel	Frequency(MHz)
01	2412	07	2442
02	2417	08	2447
03	2422	09	2452
04	2427	10	2457
05	2432	11	2462
06	2437	---	---

802.11n HT40 (2422 ~ 2462MHz)

Channel	Frequency(MHz)	Channel	Frequency(MHz)
---	---	07	2442
---	---	08	2447
03	2422	09	2452
04	2427	---	---
05	2432	---	---
06	2437	---	---

802.11a, 802.11an HT20 (5725 ~ 5850MHz)

Channel	Frequency(MHz)	Channel	Frequency(MHz)
149	5745	161	5805
153	5765	165	5825
157	5785	---	---

802.11an HT 40 (5725 ~ 5850MHz)

Channel	Frequency(MHz)	Channel	Frequency(MHz)
151	5755	159	5795
155	5775	---	---



2.4 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, USB2.0 HDD, WAN Load and EUT for RF 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 LAN (1Gbps), WAN (1Gbps) and Wireless (270Mbps).
- d. The following test modes were performed for test:
 - 802.11b/g/n HT20: CH01: 2412MHz, CH06: 2437MHz, CH11: 2462MHz
 - 802.11n HT40: CH03: 2422MHz, CH06: 2437MHz, CH09: 2452MHz
 - 802.11a/an HT20: CH 149: 5745MHz, CH 157: 5785MHz, CH 165: 5825MHz
 - 802.11an HT40: CH 151: 5755MHz, CH 155: 5775MHz, CH 159: 5795MHz

2.5 Description of Test System

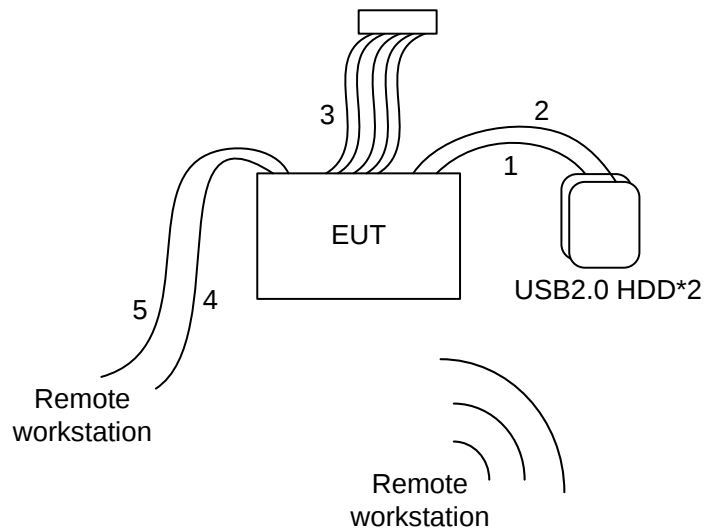
Device	Manufacturer	Model No.	Description
USB2.0 HDD*2	Terasys	F-12UF	USB Cable, Shielding 1.6 m
WAN Load	CAMEO	N/A	N/A
Remote Workstation			
Notebook	IBM	R40	Power Cable, Unshielding 1.8 m
Notebook	DELL	PP10L	Power Cable, Unshielding 1.8 m
Notebook	TOSHIBA	PSA50T-05M00C	Power Cable, Unshielding 1.8 m

Use Cable:

Cable	Quantity	Description
RJ45	5	Unshielding, 1.8m
RJ45	2	Unshielding, 10m



2.6 Connection Diagram of Test System



1. The USB cable is connected from EUT to the USB2.0 HDD.
 2. The USB cable is connected from EUT to the USB2.0 HDD.
 3. These RJ45 cables (*5) are connected from EUT to the WAN Load.
 4. The RJ45 cable (WAN) is connected from EUT to the Remote workstation.
 5. The RJ45 cable (LAN) is connected from EUT to the Remote workstation.
- * The EUT keeps to transmit and receive data to remote workstation by Wireless.



2.7 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, TW1056, 982971, 488071
IC Registration Number:	4934C-1, 4934D-1
VCCI Registration Number:	T-543 for Telecommunication Test C-3328 for Conducted emission test R-3013 for Radiated emission test
Test Voltage:	AC 120V / 60Hz
Test in Compliance with:	ANSI C63.4-2003 FCC Part 15 Subpart C
Frequency Range Investigated:	Conducted: from 150kHz to 30MHz Radiation: from 30MHz to 40,000MHz
Test Distance:	The test distance of radiated emission from antenna to EUT is 3 M.

2.8 Measurement Uncertainty

Measurement Item	Measurement Frequency	Polarization	Uncertainty
Conducted Emission	9 kHz ~ 30 MHz	LINE/NEUTRAL	2.71 dB
Radiated Emission	30 MHz ~ 40GHz	Vertical	4.11 dB
		Horizontal	4.10 dB
6 dB Bandwidth	---	---	7500 Hz
Maximum Peak Output Power	---	---	1.4 dB
100kHz Bandwidth of Frequency Band Edges	---	---	2.2 dB
Power Spectral Density	---	---	2.2 dB



☐ Additional attachment as following record:

[illegible]



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

3.2 Antenna Construction and Directional Gain

Antenna 1, 2, 3: Dipole Antenna, 2 dBi (2.4GHz Band), 2 dBi (5GHz Band)



4. Test of Conducted Emission

4.1 Test Limit

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 μ V)	Average (dB μ V)
0.15 – 0.5	66-56*	56-46*
0.5 – 5.0	56	46
5.0 – 30.0	60	50

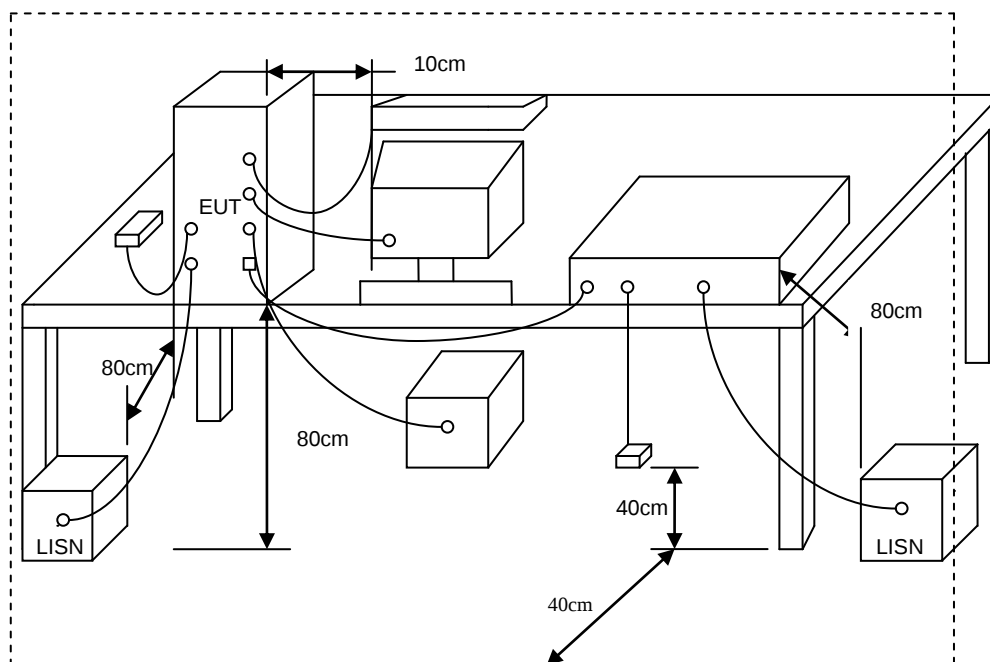
*Decreases with the logarithm of the frequency.

4.2 Test Procedures

- 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.
- Connect EUT to the power mains through a line impedance stabilization network (LISN).
- All the support units are connecting to the other LISN.
- The LISN provides 50 ohm coupling impedance for the measuring instrument.
- The FCC states that a 50 ohm, 50 micro-Henry LISN should be used.
- Both sides of AC line were checked for maximum conducted interference.
- The frequency range from 150 kHz to 30 MHz was searched.
- Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.



4.3 Typical Test Setup



4.4 Measurement Equipment

Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Valid Date
EMI Receiver	R&S	ESCI	100821	2010/01/21	2011/01/20
LISN	Schwarzbeck	NSLK 8127	8127-516	2009/05/15	2010/05/14
LISN	ROLF HEINE	NNB-2/16Z	03/10058	2009/04/18	2010/04/17



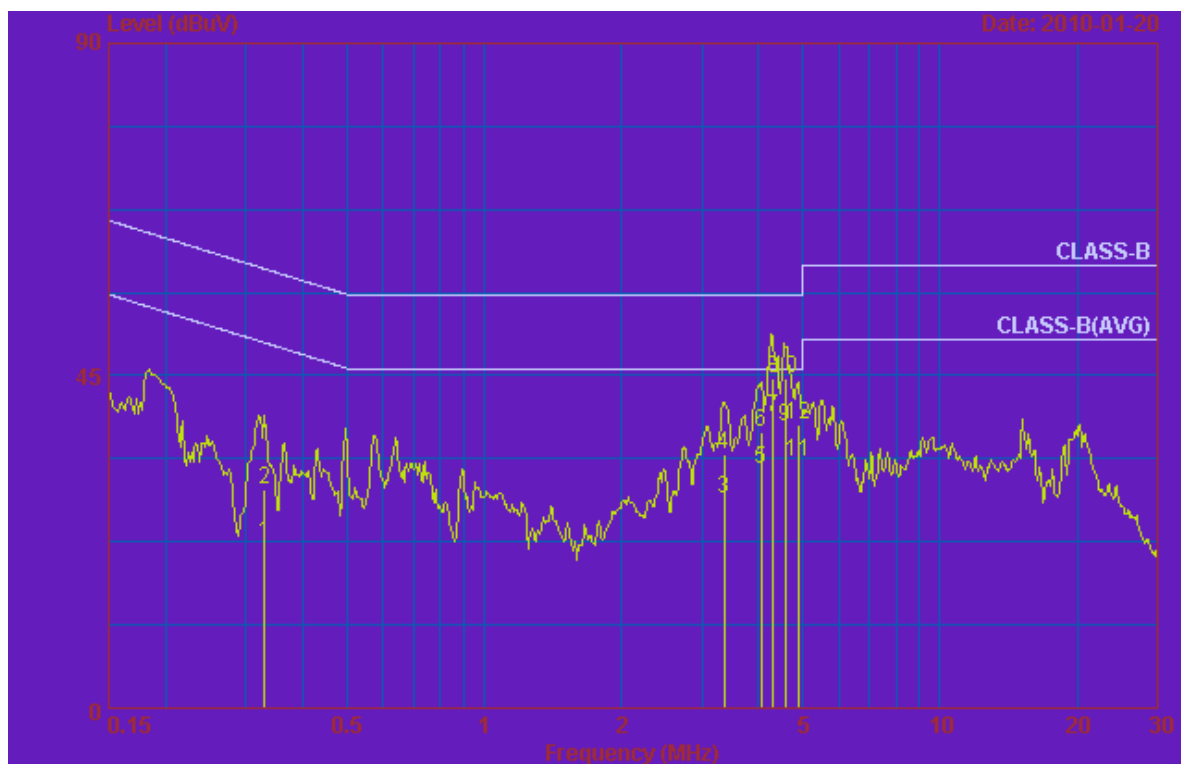
4.5 Test Result and Data

Power	: AC 120V	Pol/Phase	: LINE
Test Mode	: 802.11g, CH1	Temperature	: 24 °C
Memo	:	Humidity	: 70 %





Power	: AC 120V	Pol/Phase	: NEUTRAL
Test Mode	: 802.11g, CH1	Temperature	: 24 °C
Memo	:	Humidity	: 70 %



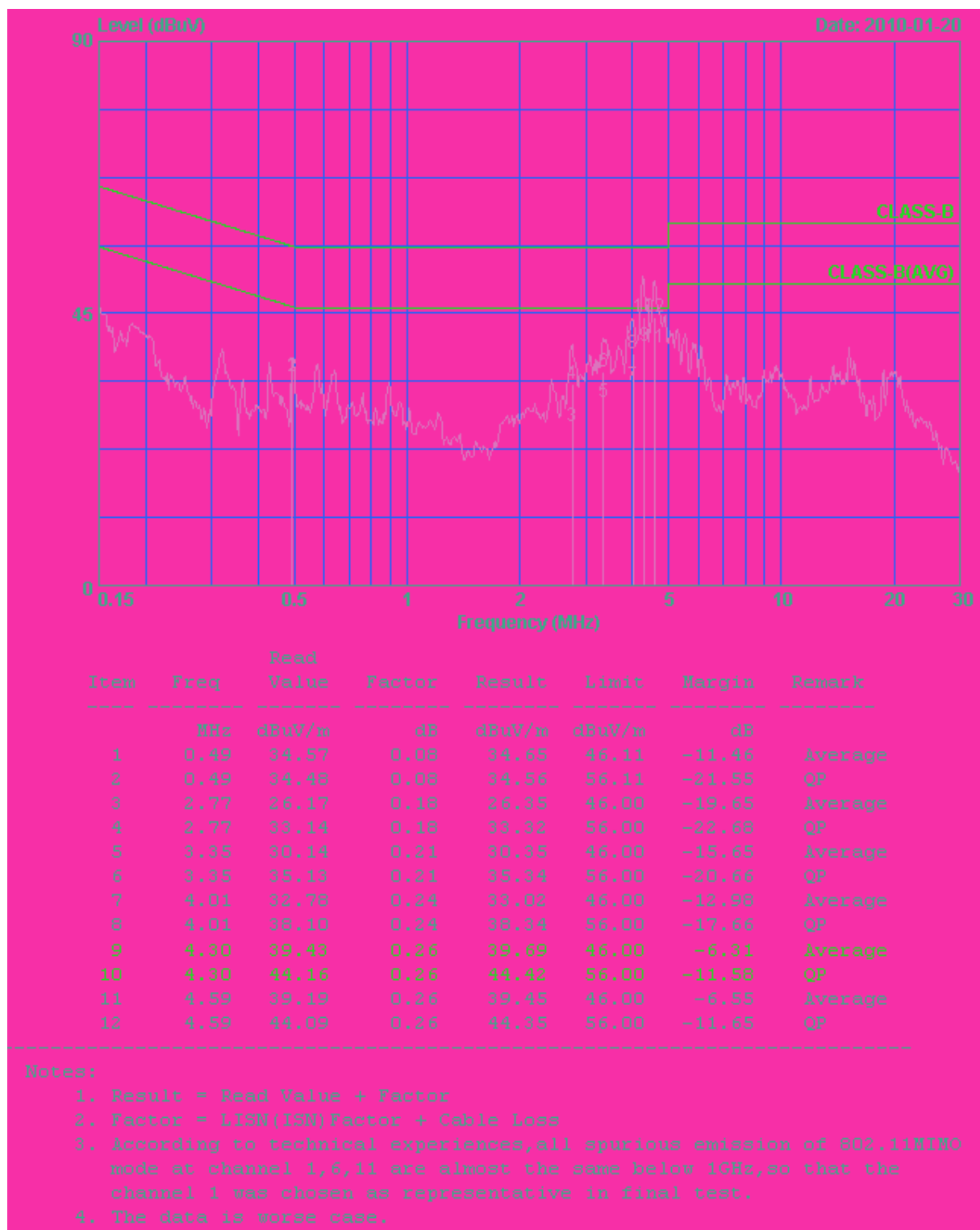
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	
1	0.33	22.17	0.08	22.25	49.47	-27.22	Average
2	0.33	29.47	0.08	29.55	59.47	-29.92	QP
3	3.36	28.29	0.16	28.45	46.00	-17.55	Average
4	3.36	34.09	0.16	34.25	56.00	-21.75	QP
5	4.05	32.05	0.19	32.24	46.00	-13.76	Average
6	4.05	37.05	0.19	37.24	56.00	-18.76	QP
7	4.31	39.24	0.21	39.45	46.00	-6.55	Average
8	4.31	44.33	0.21	44.54	56.00	-11.46	QP
9	4.57	38.00	0.21	38.21	46.00	-7.79	Average
10	4.57	44.35	0.21	44.56	56.00	-11.44	QP
11	4.89	33.01	0.23	33.24	46.00	-12.76	Average
12	4.89	38.22	0.23	38.45	56.00	-17.55	QP

Notes:

1. Result = Read Value + Factor
2. Factor = LISN(ISW)Factor + Cable Loss
3. All emission below 1GHz at 802.11b/g mode are all the same,so the 802.11g mode chosen as representative in final test.
4. According to technical experiences,all spurious emission of 802.11g mode at channel 1,6,11 are almost the same below 1GHz,so that the channel 1 was chosen as representative in final test.
5. The data is worse case.

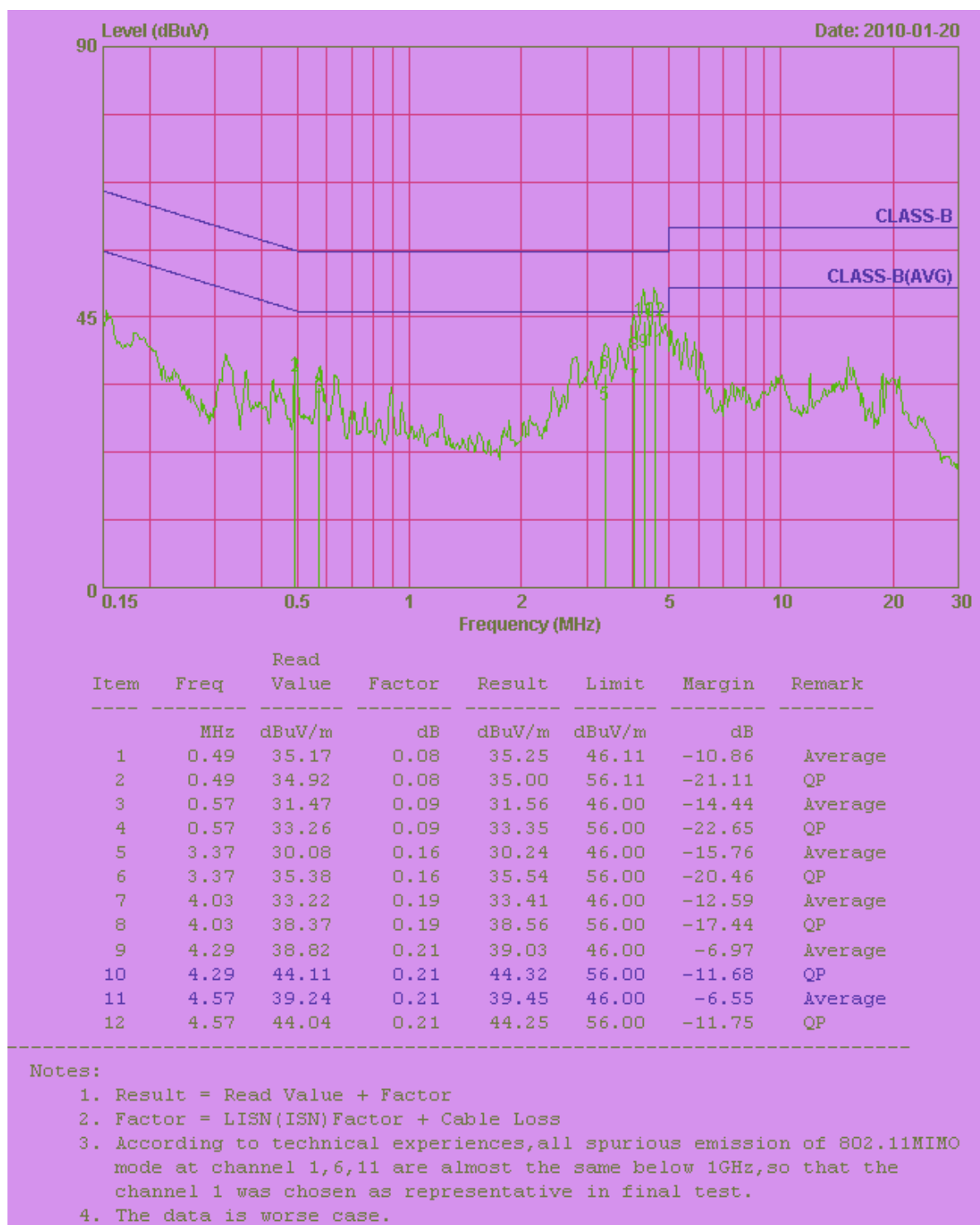


Power	: AC 120V	Pol/Phase	: LINE
Test Mode	: 802.11n HT20, CH1	Temperature	: 24 °C
Memo	:	Humidity	: 70 %



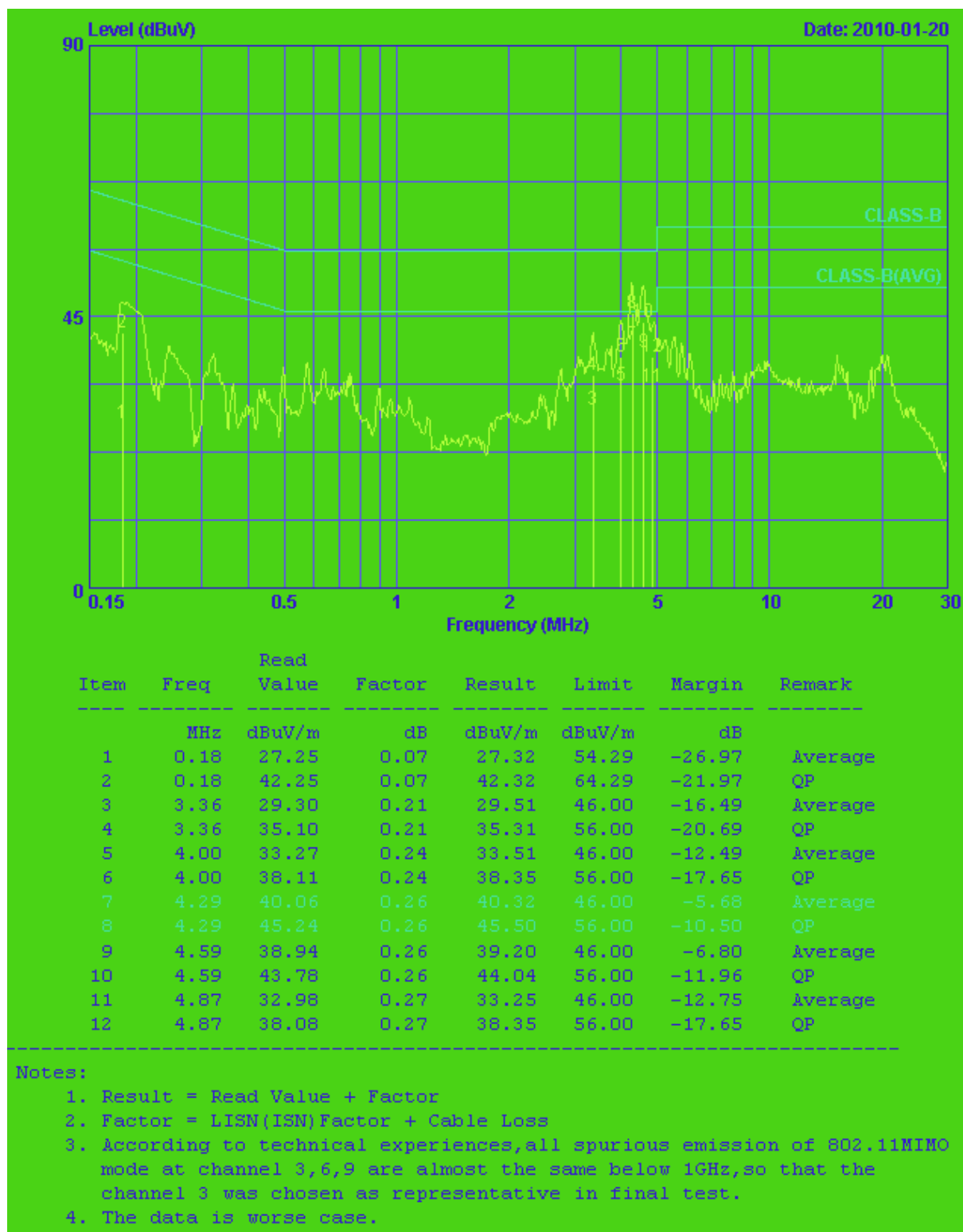


Power	: AC 120V	Pol/Phase	: NEUTRAL
Test Mode	: 802.11n HT20, CH1	Temperature	: 24 °C
Memo	:	Humidity	: 70 %



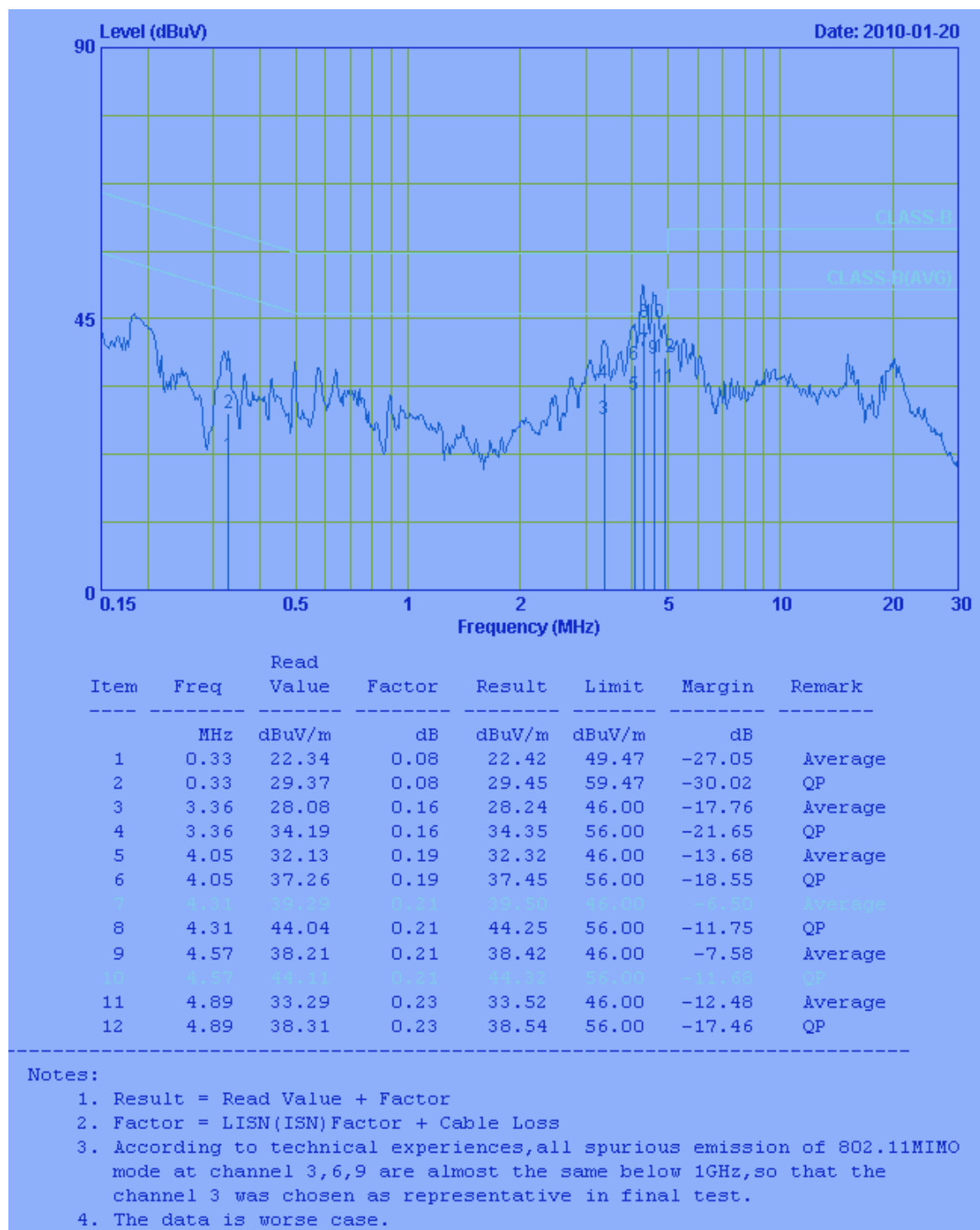


Power	: AC 120V	Pol/Phase	: LINE
Test Mode	: 802.11n HT40, CH3	Temperature	: 24 °C
Memo	:	Humidity	: 70 %





Power	: AC 120V	Pol/Phase	: NEUTRAL
Test Mode	: 802.11n HT40, CH3	Temperature	: 24 °C
Memo	:	Humidity	: 70 %





Power	: AC 120V	Pol/Phase	: LINE
Test Mode	: 802.11a, CH149	Temperature	: 24 °C
Memo	:	Humidity	: 70 %





Power	: AC 120V	Pol/Phase	: NEUTRAL
Test Mode	: 802.11a, CH149	Temperature	: 24 °C
Memo	:	Humidity	: 70 %



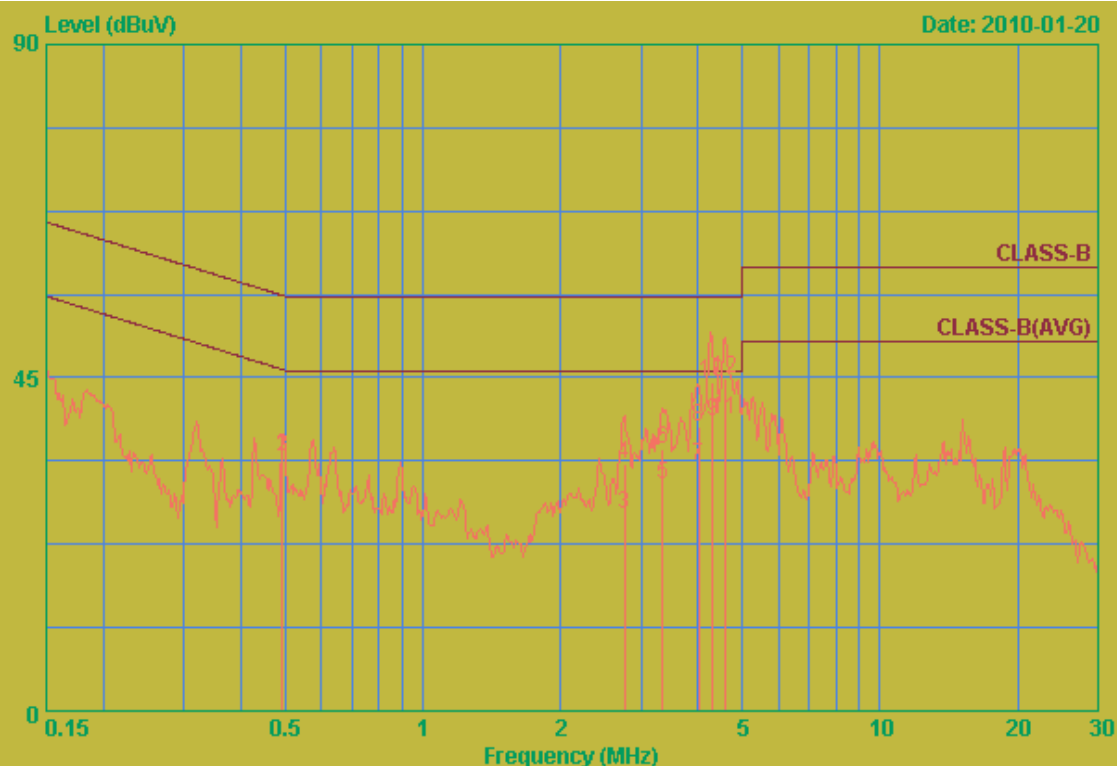
Item	Freq	Read		Factor	Result	Limit	Margin	Remark
		Value						
	MHz	dBuV/m		dB	dBuV/m	dBuV/m	dB	
1	0.33	22.16		0.08	22.24	49.47	-27.23	Average
2	0.33	29.32		0.08	29.40	59.47	-30.07	QP
3	3.36	28.08		0.16	28.24	46.00	-17.76	Average
4	3.36	34.37		0.16	34.53	56.00	-21.47	QP
5	4.05	32.06		0.19	32.25	46.00	-13.75	Average
6	4.05	36.85		0.19	37.04	56.00	-18.96	QP
7	4.31	38.82		0.21	39.03	46.00	-6.97	Average
8	4.31	43.82		0.21	44.03	56.00	-11.97	QP
9	4.57	38.11		0.21	38.32	46.00	-7.68	Average
10	4.57	44.09		0.21	44.30	56.00	-11.70	QP
11	4.89	33.00		0.23	33.23	46.00	-12.77	Average
12	4.89	38.12		0.23	38.35	56.00	-17.65	QP

Notes:

1. Result = Read Value + Factor
2. Factor = LISN(ISN) Factor + Cable Loss
3. According to technical experiences, all spurious emission of 802.11a mode at channel 149, 157, 165 are almost the same below 1GHz, so that the channel 149 was chosen as representative in final test.
4. The data is worse case.



Power	: AC 120V	Pol/Phase	: LINE
Test Mode	: 802.11an HT20, CH149	Temperature	: 24 °C
Memo	:	Humidity	: 70 %



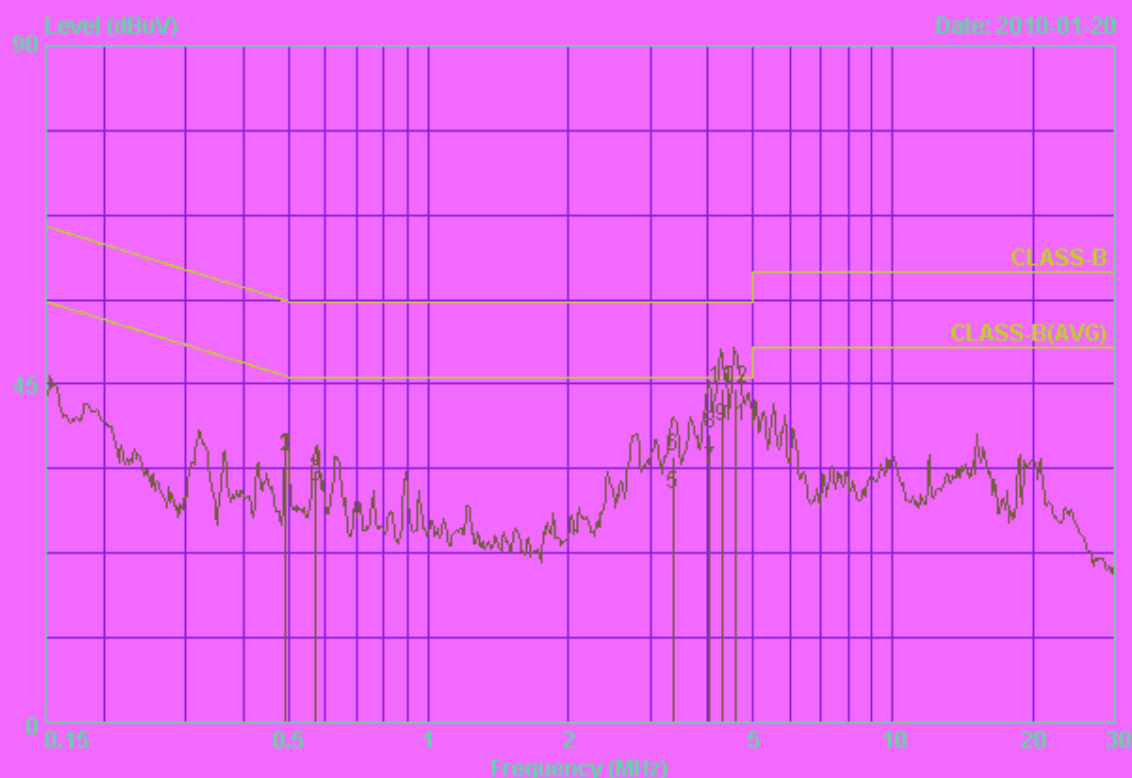
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	
1	0.49	34.28	0.08	34.36	46.11	-11.75	Average
2	0.49	34.29	0.08	34.37	56.11	-21.74	QP
3	2.77	26.38	0.18	26.56	46.00	-19.44	Average
4	2.77	33.14	0.18	33.32	56.00	-22.68	QP
5	3.35	30.33	0.21	30.54	46.00	-15.46	Average
6	3.35	35.14	0.21	35.35	56.00	-20.65	QP
7	4.01	32.97	0.24	33.21	46.00	-12.79	Average
8	4.01	38.11	0.24	38.35	56.00	-17.65	QP
9	4.30	38.95	0.26	39.21	46.00	-6.79	Average
10	4.30	44.04	0.26	44.30	56.00	-11.70	QP
11	4.59	39.04	0.26	39.30	46.00	-6.70	Average
12	4.59	44.59	0.26	44.85	56.00	-11.15	QP

Notes:

1. Result = Read Value + Factor
2. Factor = LISN(ISN) Factor + Cable Loss
3. 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.
4. The data is worse case.



Power	: AC 120V	Pol/Phase	: NEUTRAL
Test Mode	: 802.11an HT20, CH149	Temperature	: 24 °C
Memo	:	Humidity	: 70 %



Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	
1	0.49	35.24	0.08	35.32	46.11	-10.79	Average
2	0.49	35.24	0.08	35.32	56.11	-20.79	QP
3	0.57	31.35	0.09	31.44	46.00	-14.56	Average
4	0.57	33.23	0.09	33.32	56.00	-22.68	QP
5	3.37	30.14	0.16	30.30	46.00	-15.70	Average
6	3.37	35.14	0.16	35.30	56.00	-20.70	QP
7	4.03	33.35	0.19	33.54	46.00	-12.46	Average
8	4.03	38.13	0.19	38.32	56.00	-17.68	QP
9	4.29	39.10	0.21	39.31	46.00	-6.69	Average
10	4.29	44.14	0.21	44.35	56.00	-11.65	QP
11	4.57	39.11	0.21	39.32	46.00	-6.68	Average
12	4.57	44.11	0.21	44.32	56.00	-11.68	QP

Notes:

1. Result = Read Value + Factor
2. Factor = LISN(ISN) Factor + Cable Loss
3. 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.
4. The data is worse case.



Power	: AC 120V	Pol/Phase	: LINE
Test Mode	: 802.11an HT40, CH151	Temperature	: 24 °C
Memo	:	Humidity	: 70 %





Power	: AC 120V	Pol/Phase	: NEUTRAL
Test Mode	: 802.11an HT40, CH151	Temperature	: 24 °C
Memo	:	Humidity	: 70 %

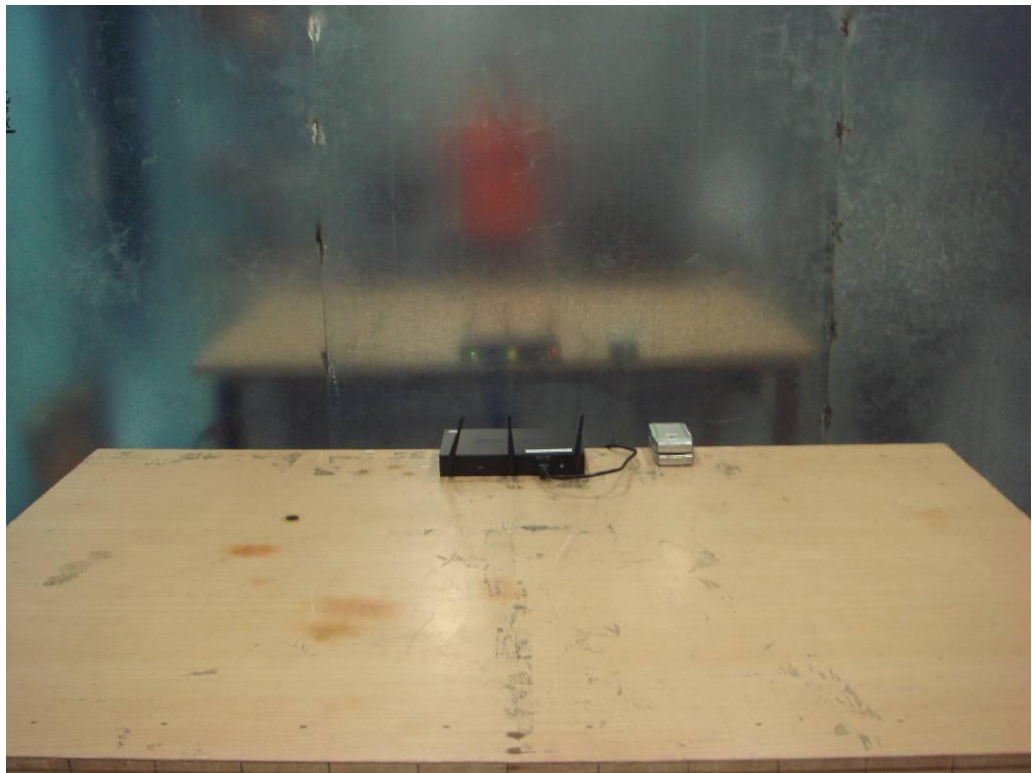


Test engineer:

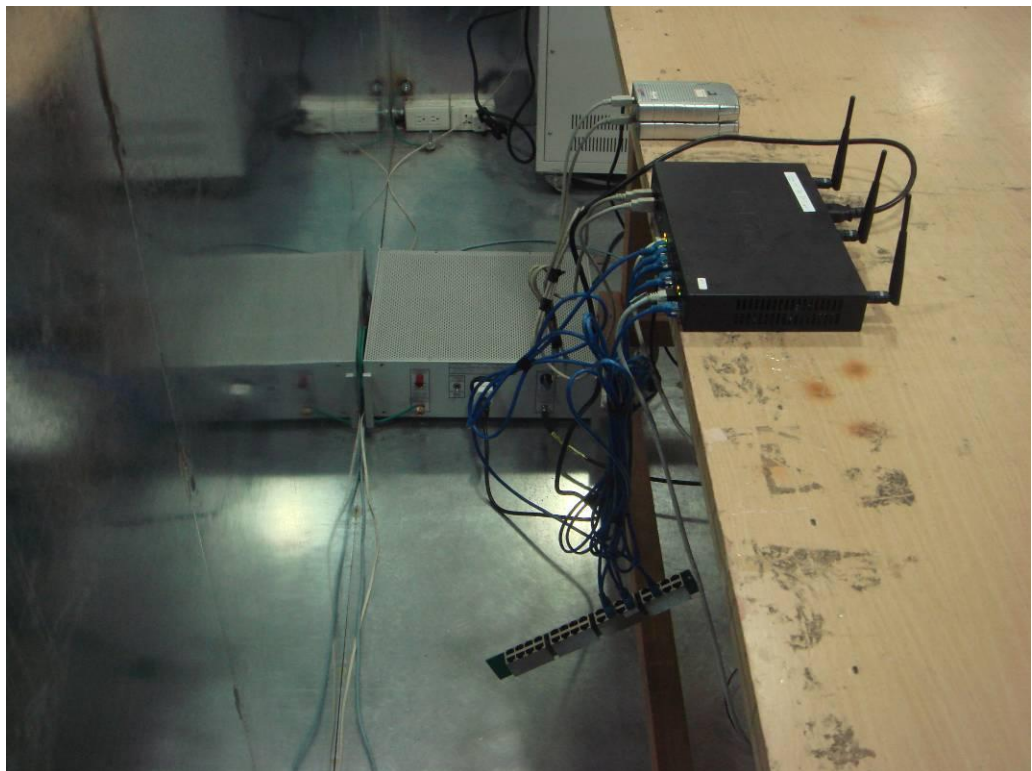


4.6 Test Photographs

Front View



Rear View





5. Test of Radiated Emission

5.1 Test Limit

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 5.6.3. The interface cables and equipment positions were varied within limits of reasonable applications to determine the positions producing maximum radiated emissions for unintentional device, according to § 15.109(a), except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Frequency (MHz)	Distance Meters	Radiated ($\mu V / M$)	Radiated (dB $\mu V / M$)
30-88	3	100	40.0
88-216	3	150	43.5
216-960	3	200	46.0
Above 960	3	500	54.0

For unintentional device, according to CISPR PUB.22, for Class B digital devices, the general requirement of field strength of radiated emissions from intentional radiators at a distance of 10 meters shall not exceed the below table.

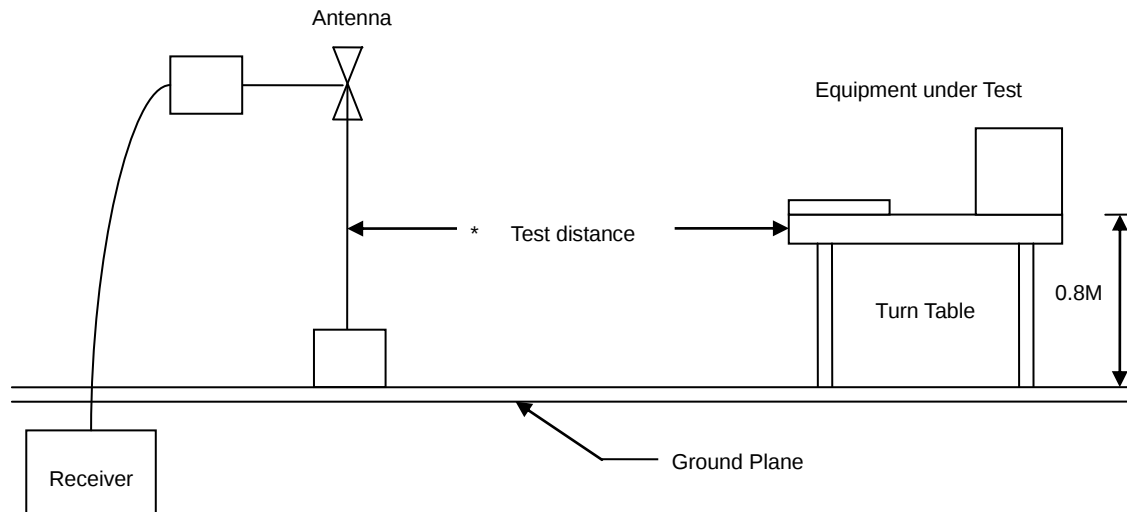
Frequency (MHz)	Distance Meters	Radiated (dB $\mu V / M$)
30-230	10	30
230-1000	10	37

5.2 Test Procedures

- The EUT was placed on a rotatable table top 0.8 meter above ground.
- The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
- The table was rotated 360 degrees to determine the position of the highest radiation.
- 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.
- 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.
- Set the test-receiver system to Peak or CISPR quasi-peak Detect Function and specified bandwidth with Maximum Hold Mode.
- 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.
- 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.



5.3 Typical Test Setup



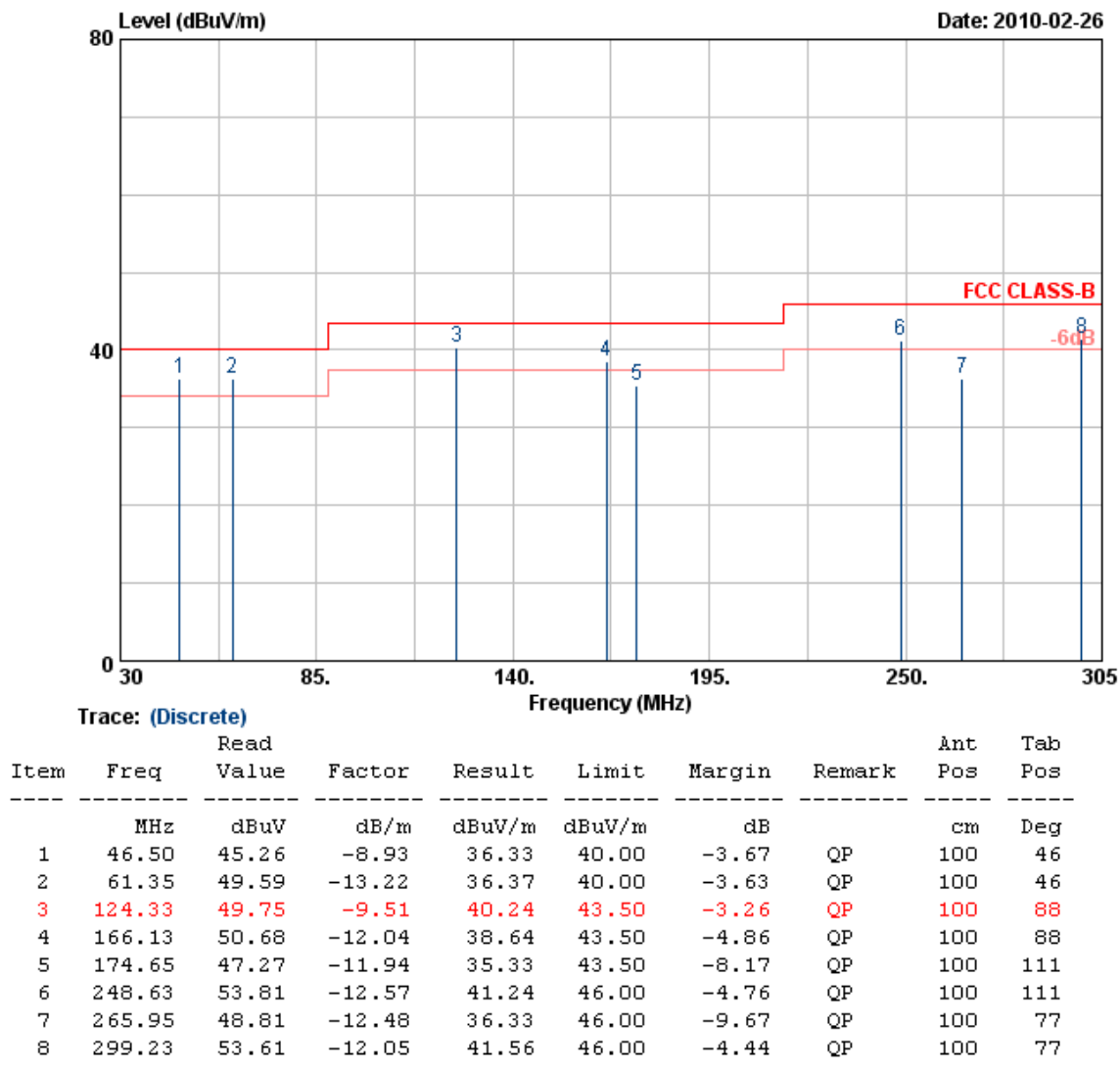
5.4 Measurement Equipment

Instrument/Ancillary	Manufacturer	Model No.	Serial No.	Calibration Date	Valid Date
Bilog Antenna	Schaffner	CBL6112B	2840	2009/05/14	2010/05/13
Amplifier	Agilent	8447D	2944A10593	2009/05/21	2010/05/20
EMI Receiver	R&S	ESCI	100443	2010/01/14	2011/01/13
Spectrum Analyzer	R&S	FSP40	100047	2009/03/26	2010/03/25
Horn Antenna	EMCO	3115	31589	2009/05/04	2010/05/03
Preamplifier	EMCO	EMCO12635	980029	2009/11/06	2010/11/05



5.5 Test Result and Data

Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode	: 802.11g, CH1	Temperature	: 20 °C
Memo	:	Humidity	: 65 %

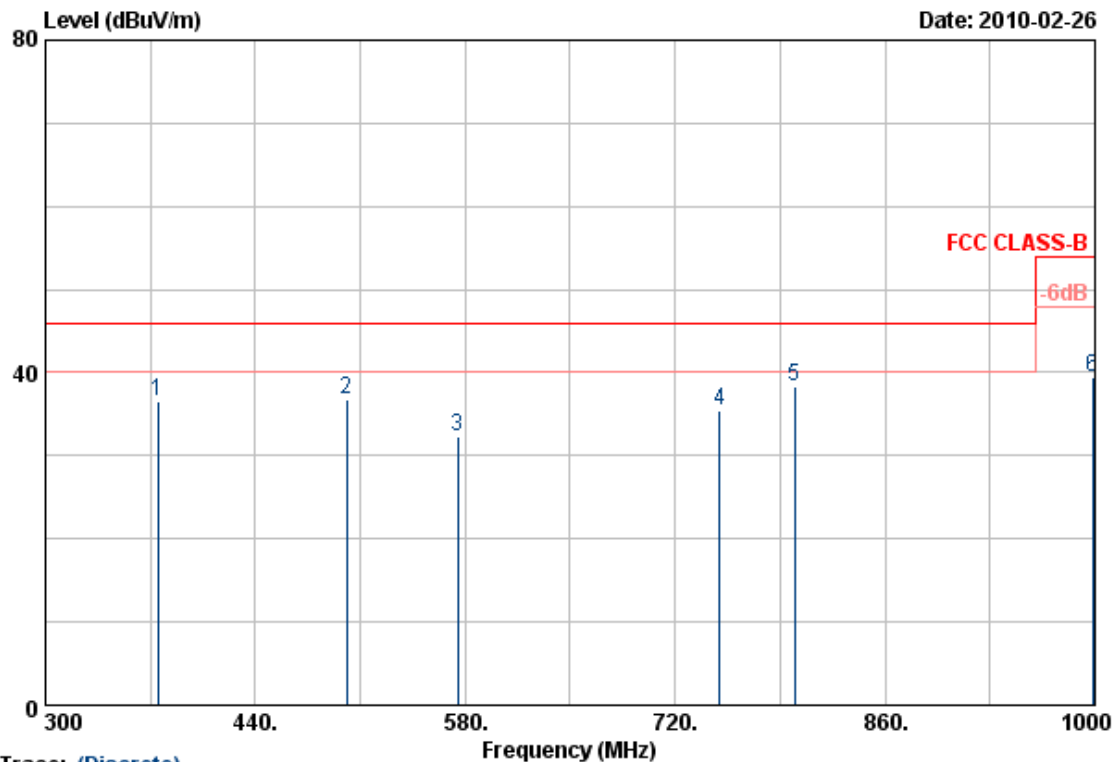


Notes:

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. All emission below 1GHz at 802.11b/g/n mode are all the same, so the 802.11g/n mode chosen as representative in final test.
5. According to technical experiences, all spurious emission of 802.11g/n mode at channel 1, 6, 11 or 3, 6, 9 (for HT40) are almost the same below 1GHz, so that the channel 1 or 3 (for HT40) was chosen as representative in final test.
6. The data is worse case.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode	: 802.11g, CH1	Temperature	: 20 °C
Memo	:	Humidity	: 65 %



Trace: (Discrete)

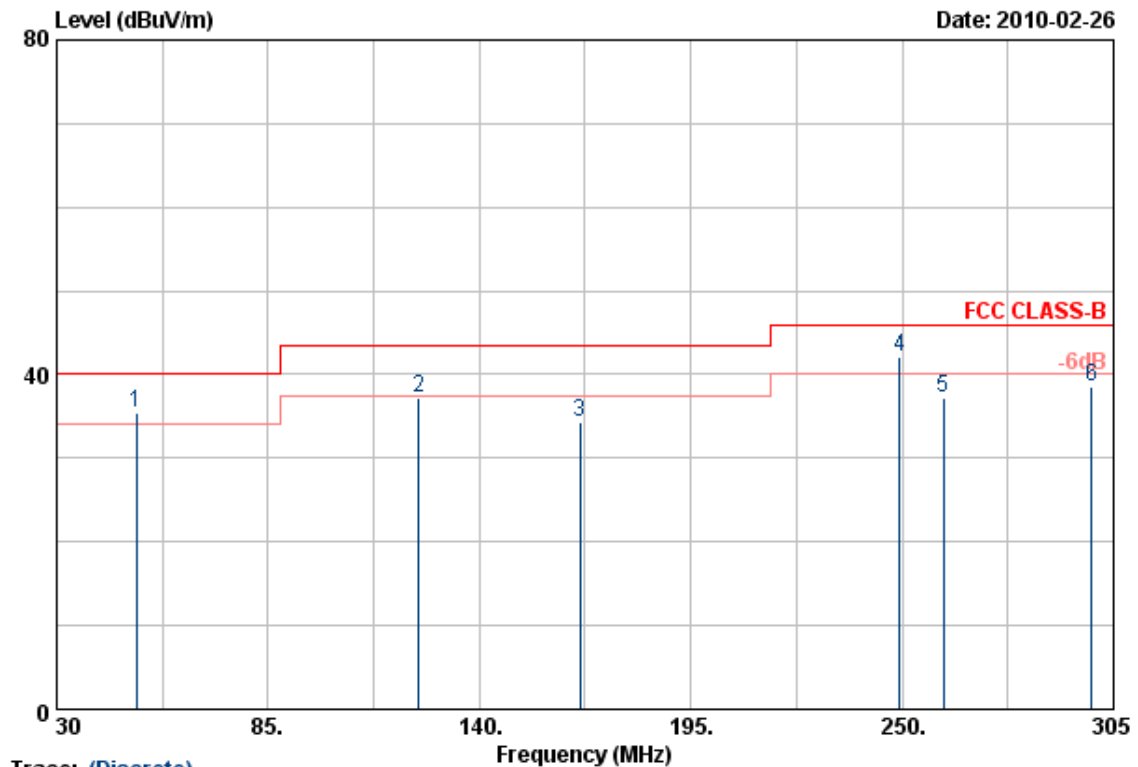
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	375.00	50.60	-14.06	36.54	46.00	-9.46	QP	100	98
2	500.90	48.01	-11.34	36.67	46.00	-9.33	QP	100	98
3	575.00	41.74	-9.51	32.23	46.00	-13.77	QP	100	98
4	749.40	41.65	-6.31	35.34	46.00	-10.66	QP	100	120
5	799.80	45.14	-6.77	38.37	46.00	-7.63	QP	100	103
6	998.60	42.63	-3.29	39.34	54.00	-14.66	QP	100	100

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. All emission below 1GHz at 802.11b/g/n mode are all the same,so the 802.11g/n mode chosen as representative in final test.
5. According to technical experiences,all spurious emission of 802.11g/n mode at channel 1,6,11 or 3,6,9(for HT40) are almost the same below 1GHz,so that the channel 1 or 3(for HT40)was chosen as representative in final test.
6. The data is worse case.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode	: 802.11g, CH1	Temperature	: 20 °C
Memo	:	Humidity	: 65 %



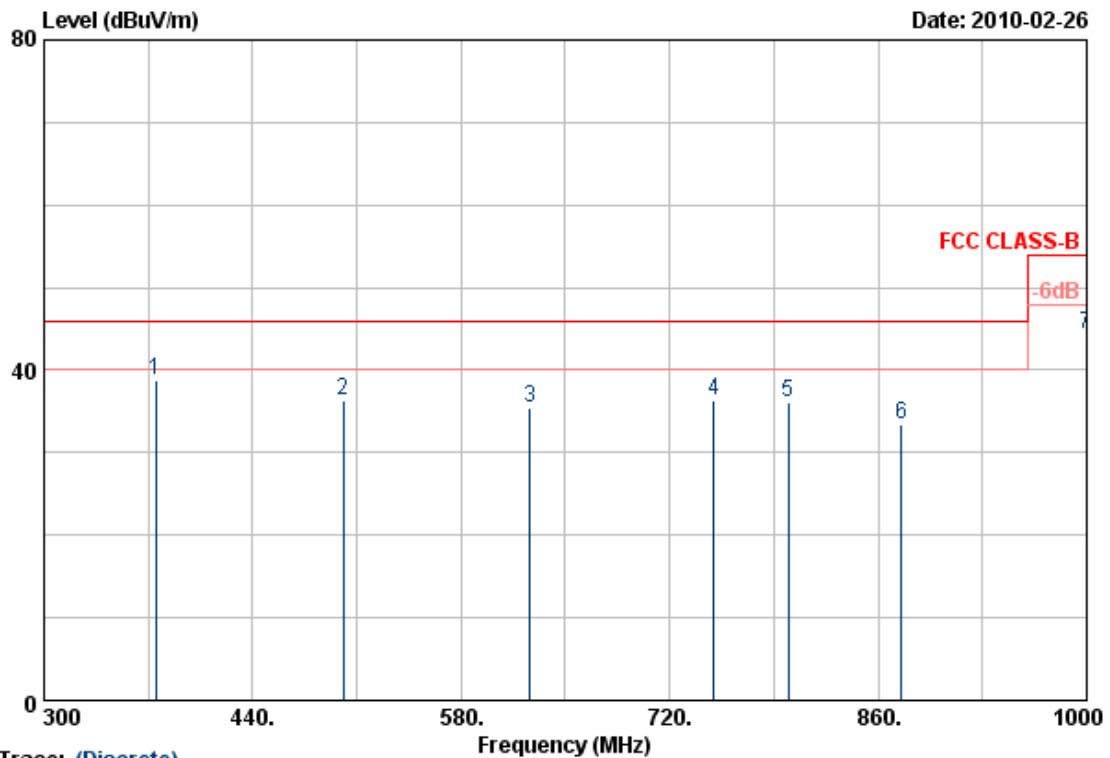
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	50.63	52.83	-17.46	35.37	40.00	-4.63	QP	100	77
2	124.33	55.62	-18.36	37.26	43.50	-6.24	Peak	100	98
3	166.13	52.78	-18.53	34.25	43.50	-9.25	Peak	100	98
4	249.45	59.37	-17.24	42.13	46.00	-3.87	QP	100	56
5	260.73	54.15	-16.91	37.24	46.00	-8.76	QP	100	56
6	299.23	54.93	-16.38	38.55	46.00	-7.45	QP	100	87

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. All emission below 1GHz at 802.11b/g/n mode are all the same, so the 802.11g/n mode chosen as representative in final test.
5. According to technical experiences, all spurious emission of 802.11g/n mode at channel 1, 6, 11 or 3, 6, 9 (for HT40) are almost the same below 1GHz, so that the channel 1 or 3 (for HT40) was chosen as representative in final test.
6. The data is worse case.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode	: 802.11g, CH1	Temperature	: 20 °C
Memo	:	Humidity	: 65 %



Trace: (Discrete)

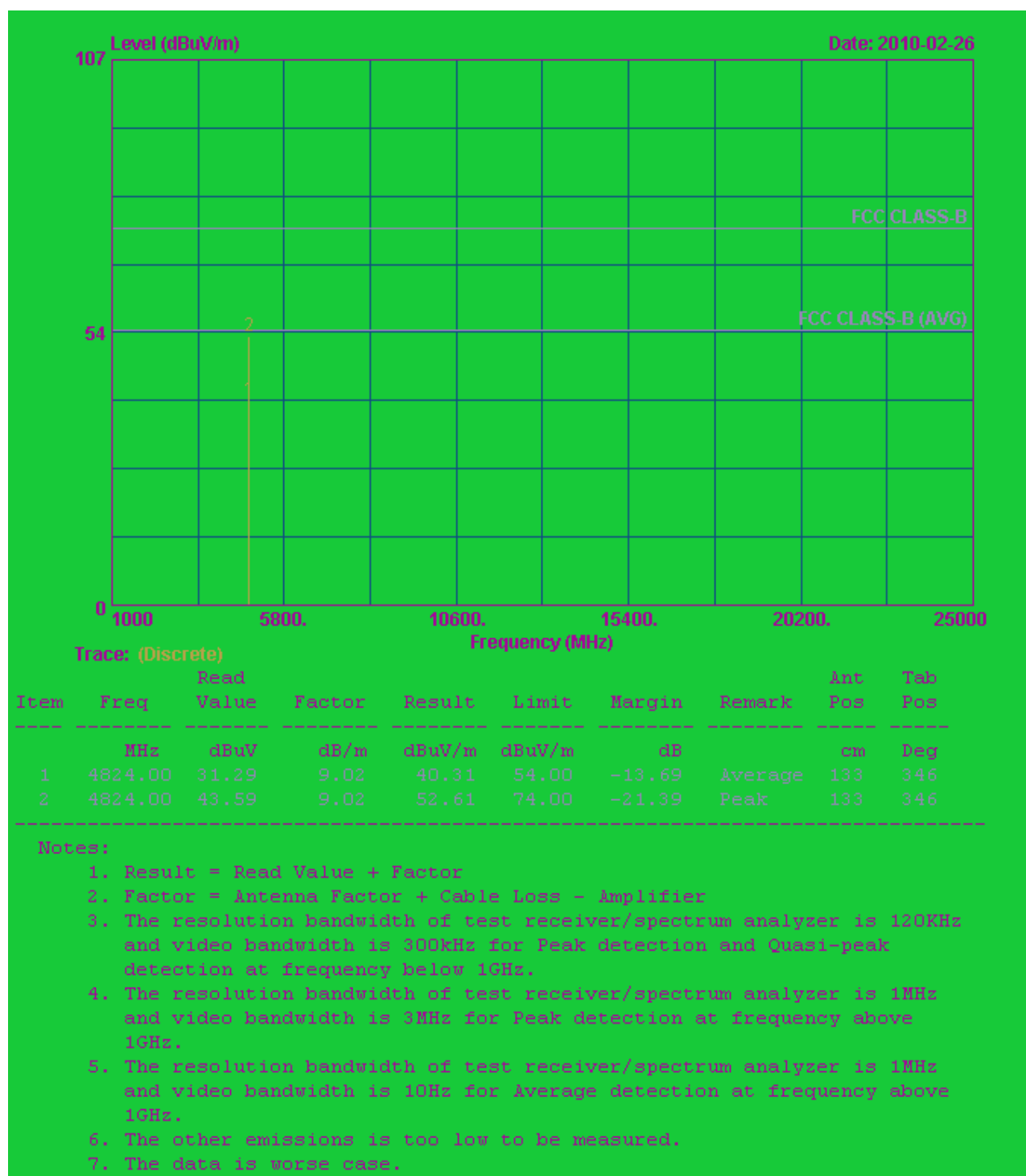
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	375.00	52.73	-14.06	38.67	46.00	-7.33	QP	100	99
2	500.90	47.67	-11.34	36.33	46.00	-9.67	QP	100	122
3	626.20	44.37	-9.00	35.37	46.00	-10.63	QP	100	177
4	749.40	42.67	-6.31	36.36	46.00	-9.64	QP	100	147
5	799.80	42.89	-6.77	36.12	46.00	-9.88	QP	100	147
6	875.40	39.40	-6.05	33.35	46.00	-12.65	QP	100	147
7	999.90	47.60	-3.28	44.32	54.00	-9.68	QP	100	147

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. All emission below 1GHz at 802.11b/g/n mode are all the same, so the 802.11g/n mode chosen as representative in final test.
5. According to technical experiences, all spurious emission of 802.11g/n mode at channel 1, 6, 11 or 3, 6, 9 (for HT40) are almost the same below 1GHz, so that the channel 1 or 3 (for HT40) was chosen as representative in final test.
6. The data is worse case.

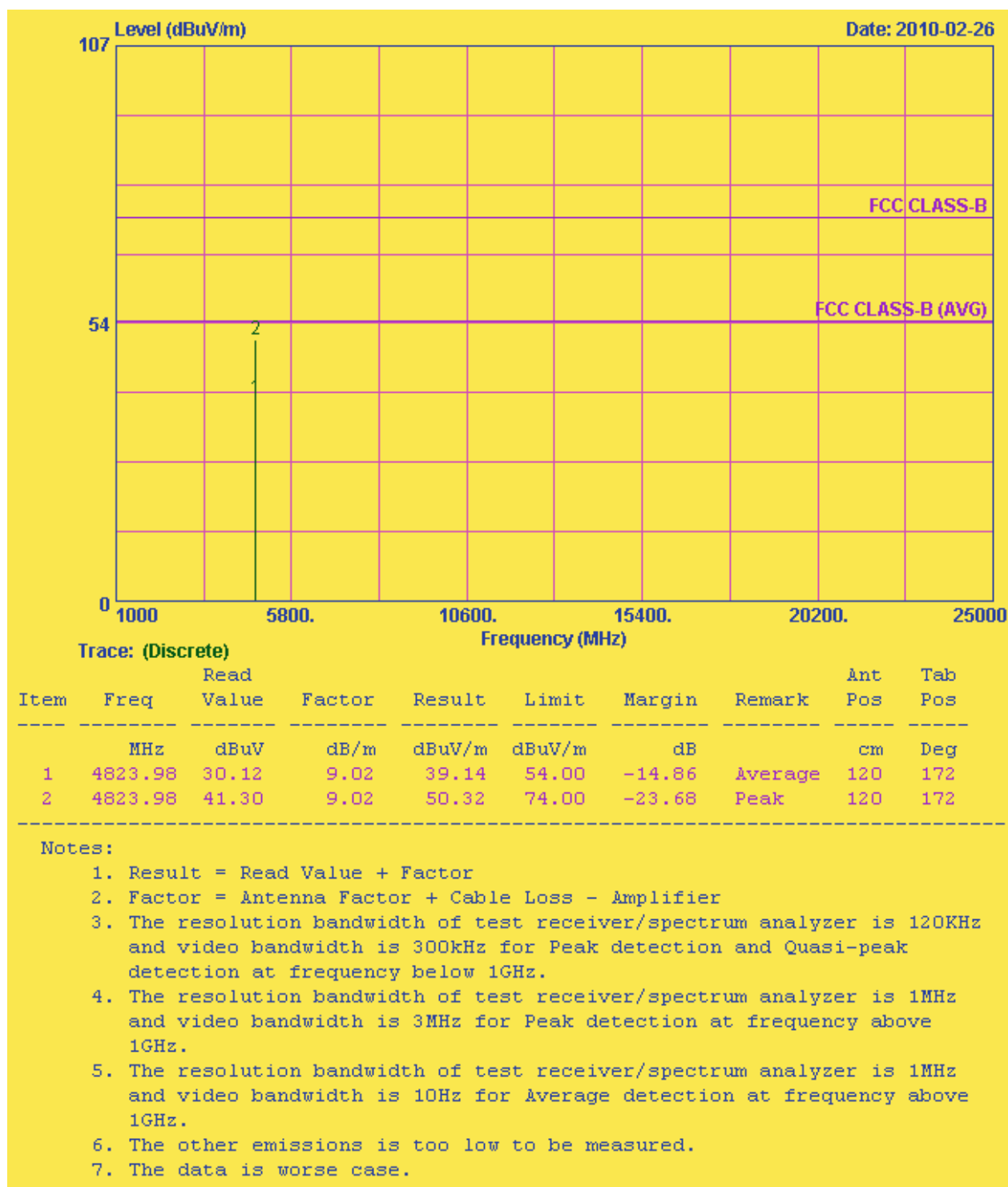


Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode	: 802.11b, CH1	Temperature	: 20 °C
Memo	:	Humidity	: 68 %



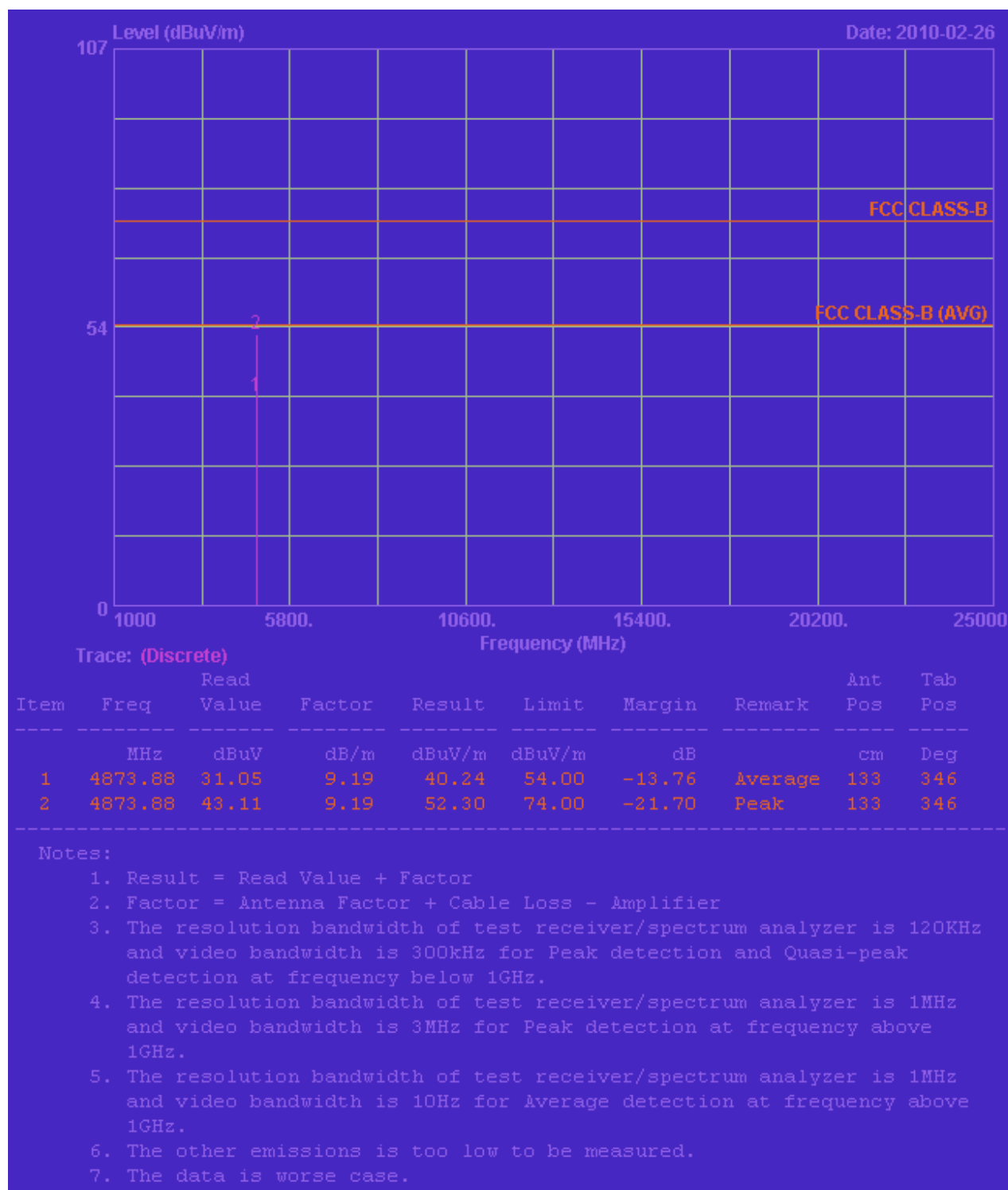


Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode	: 802.11b, CH1	Temperature	: 20 °C
Memo	:	Humidity	: 68 %



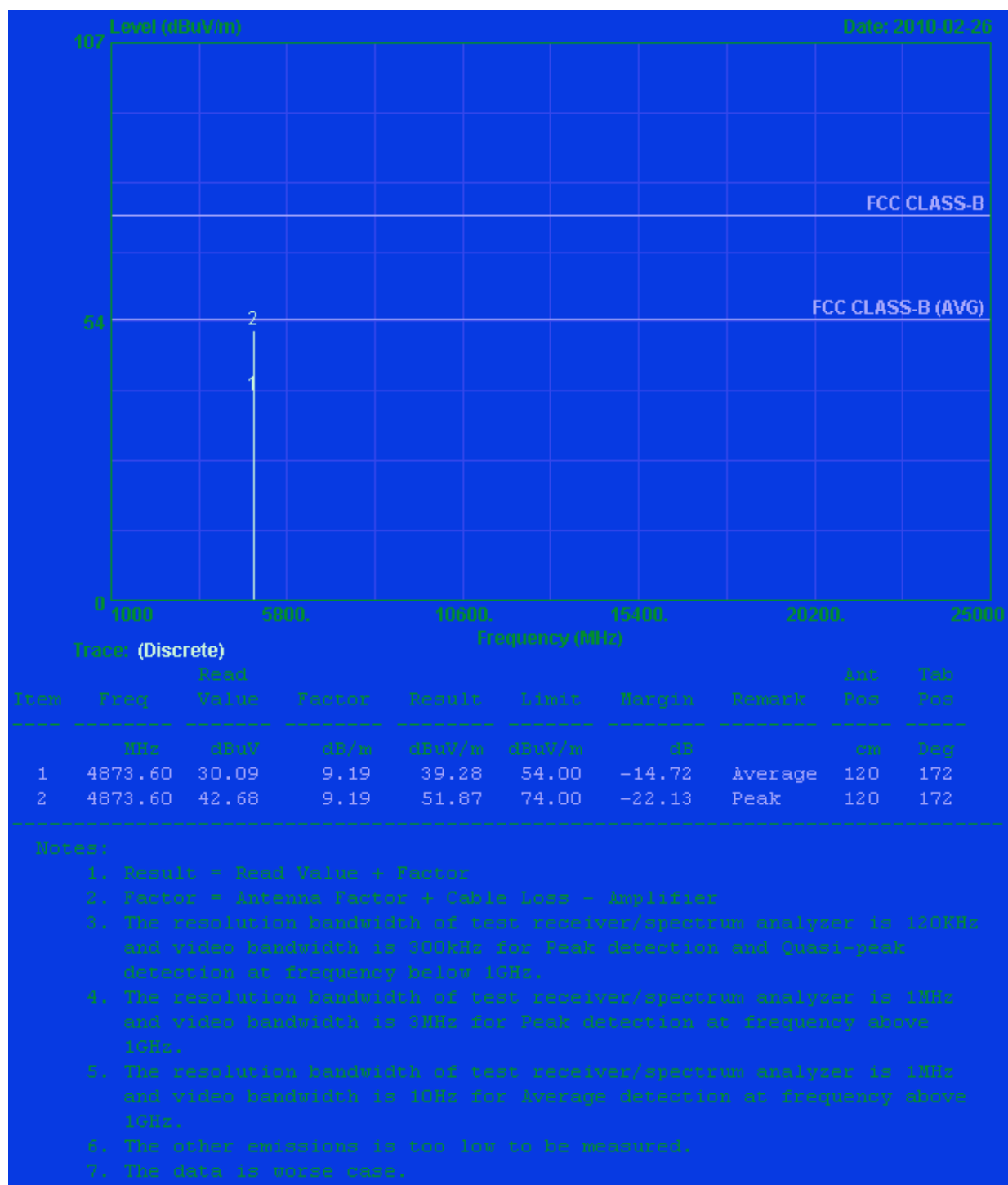


Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode	: 802.11b, CH6	Temperature	: 20 °C
Memo	:	Humidity	: 68 %



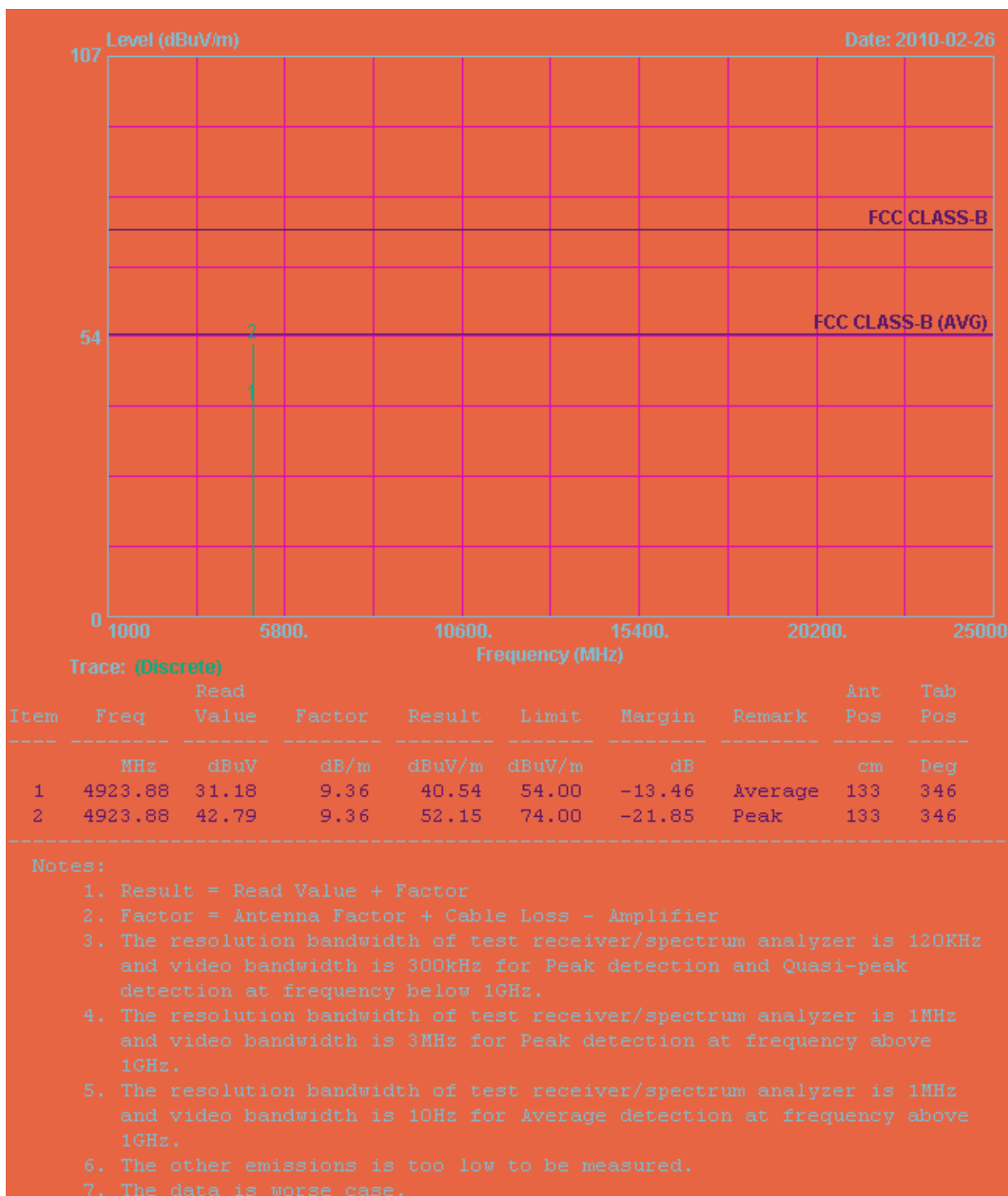


Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode	: 802.11b, CH6	Temperature	: 20 °C
Memo	:	Humidity	: 68 %



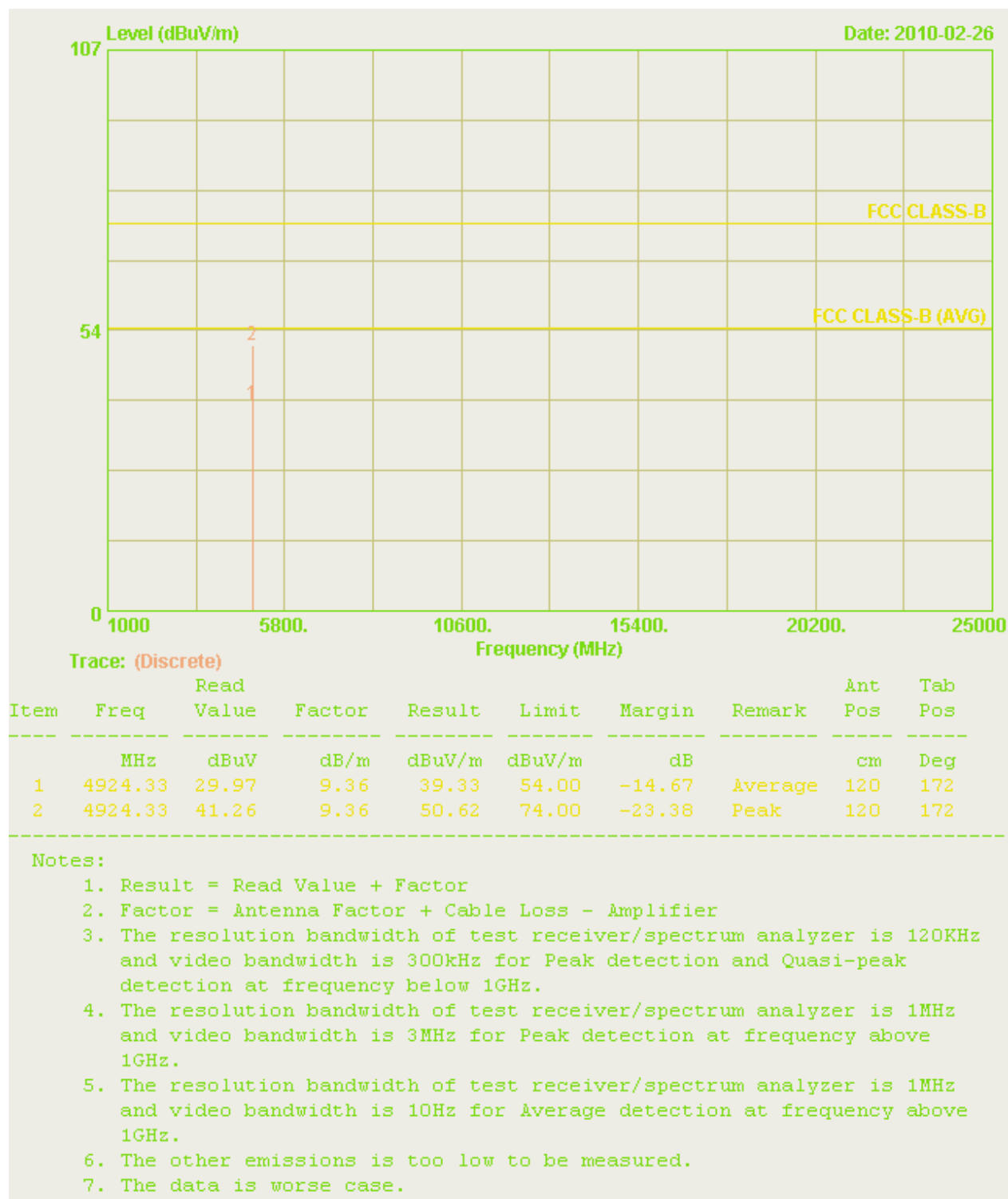


Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode	: 802.11b, CH11	Temperature	: 20 °C
Memo	:	Humidity	: 68 %



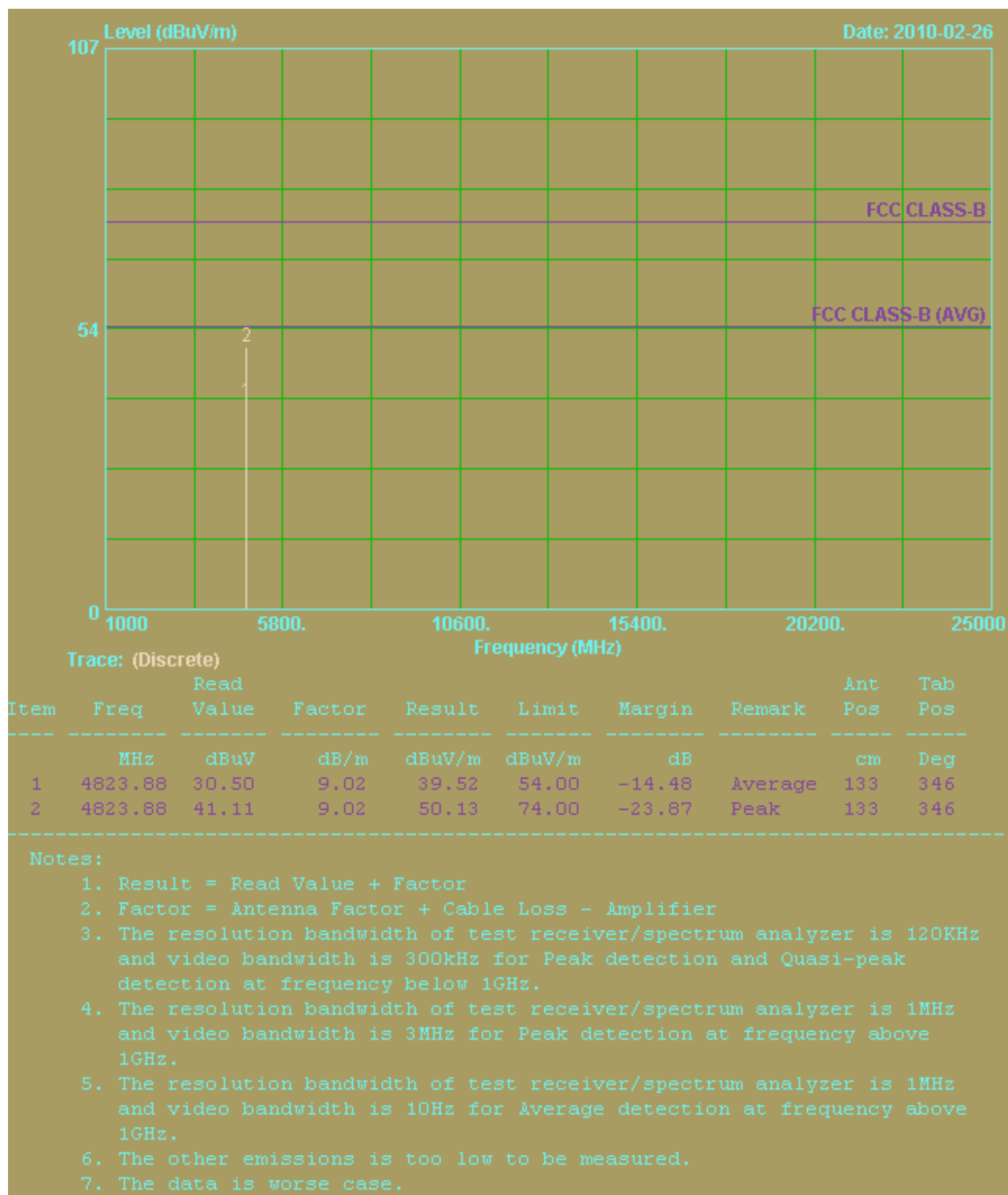


Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode	: 802.11b, CH11	Temperature	: 20 °C
Memo	:	Humidity	: 68 %



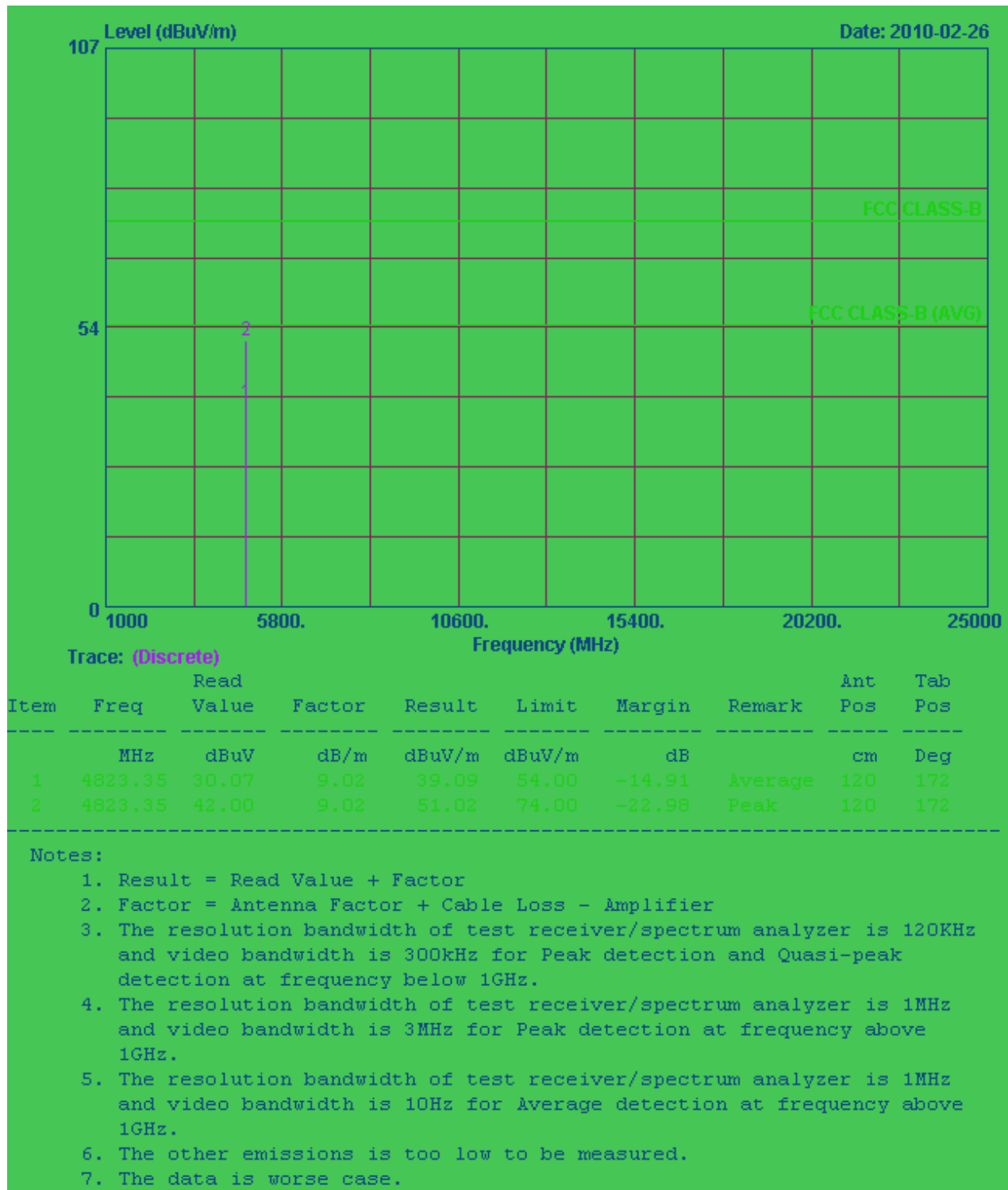


Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode	: 802.11g, CH1	Temperature	: 20 °C
Memo	:	Humidity	: 68 %



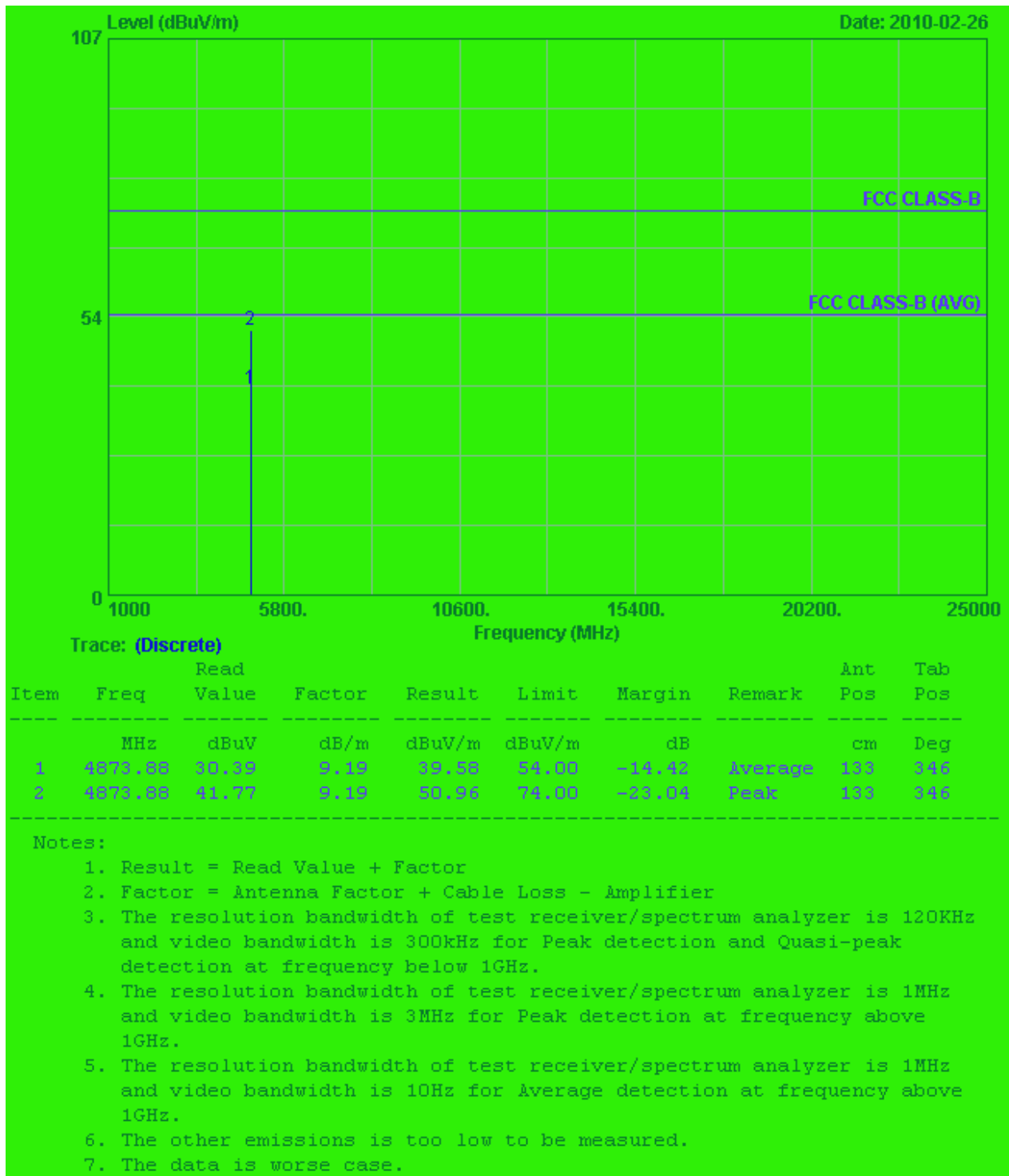


Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode	: 802.11g, CH1	Temperature	: 20 °C
Memo	:	Humidity	: 68 %



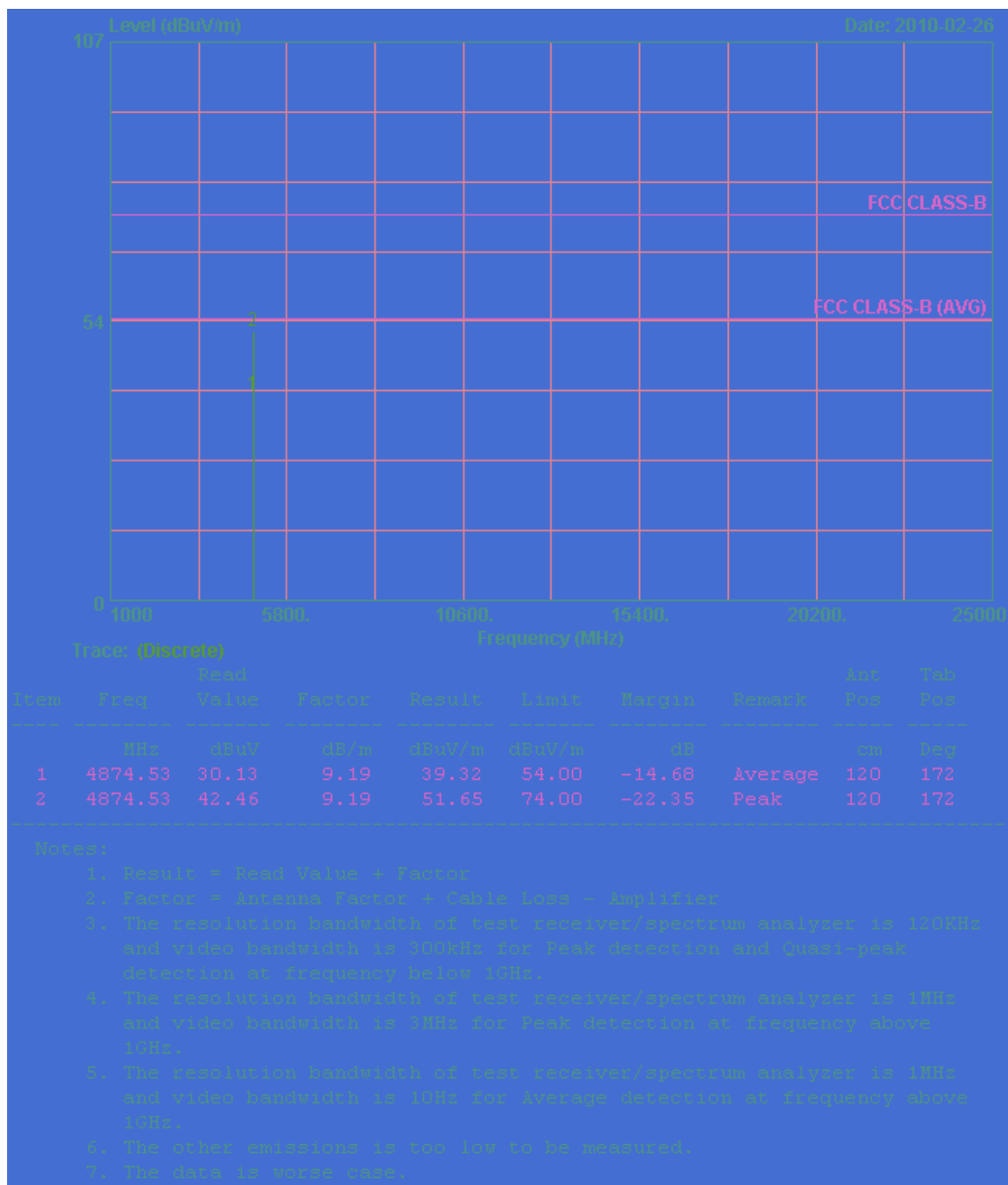


Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode	: 802.11g, CH6	Temperature	: 20 °C
Memo	:	Humidity	: 68 %



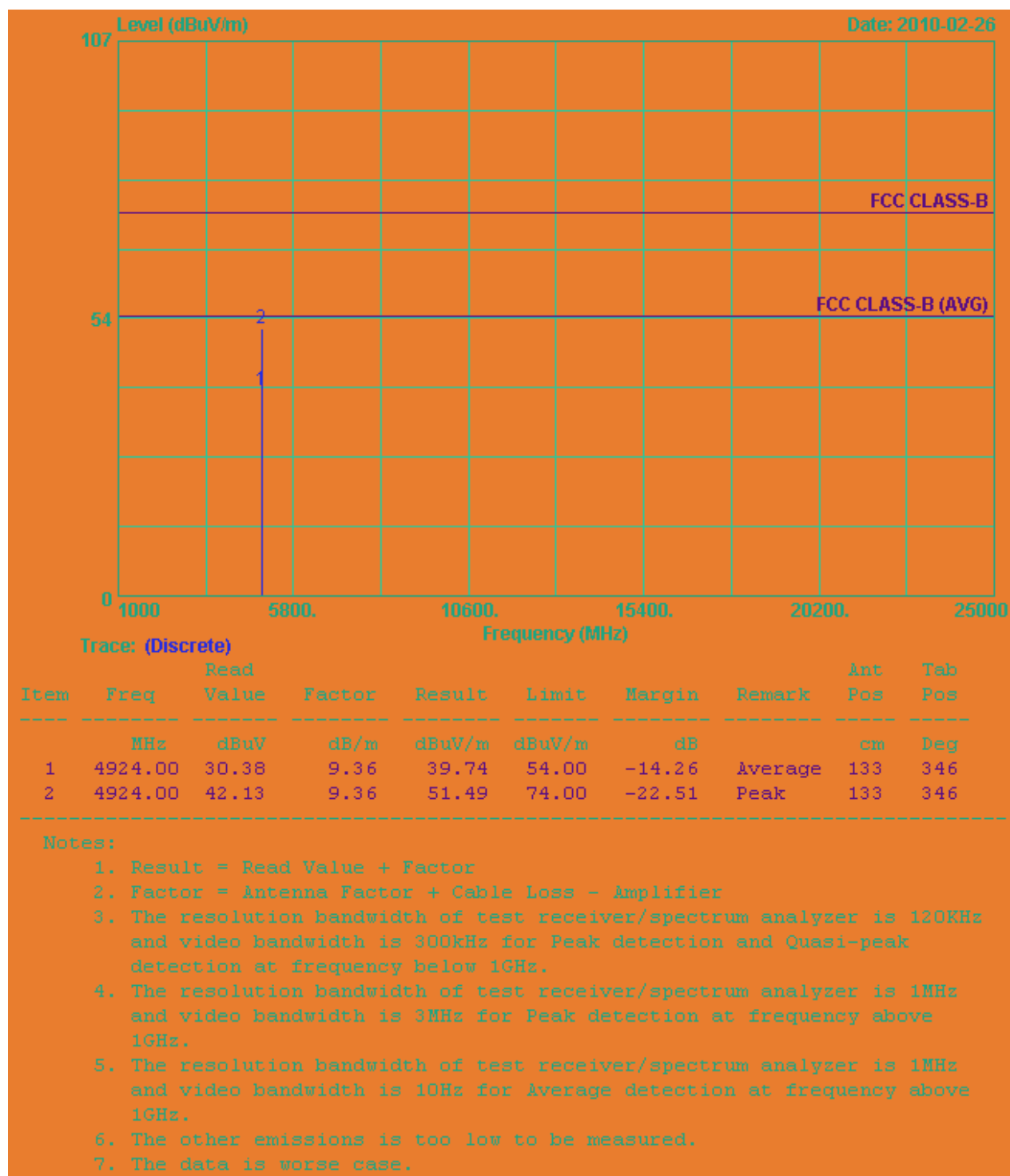


Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode	: 802.11g, CH6	Temperature	: 20 °C
Memo	:	Humidity	: 68 %



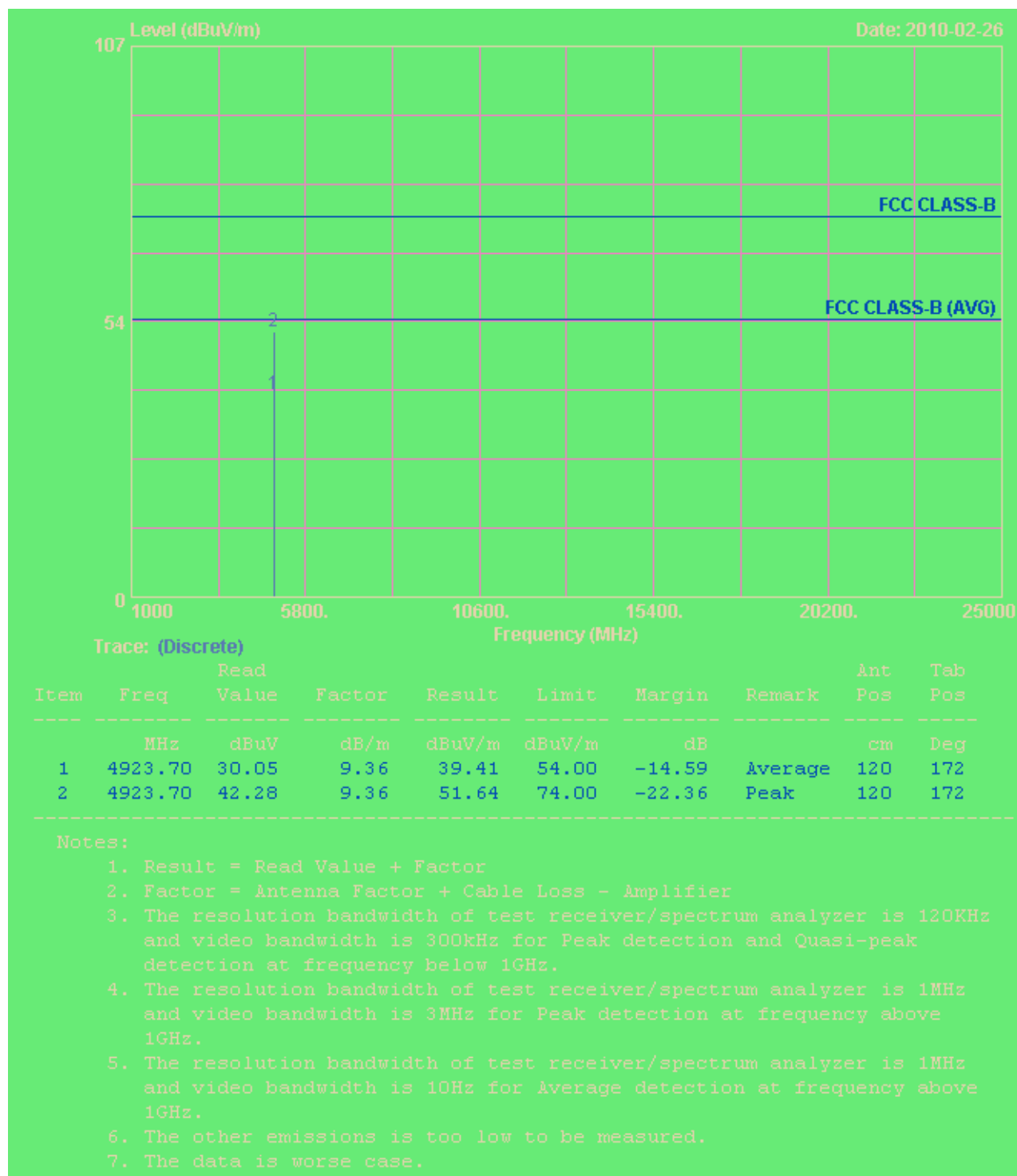


Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode	: 802.11g, CH11	Temperature	: 20 °C
Memo	:	Humidity	: 68 %



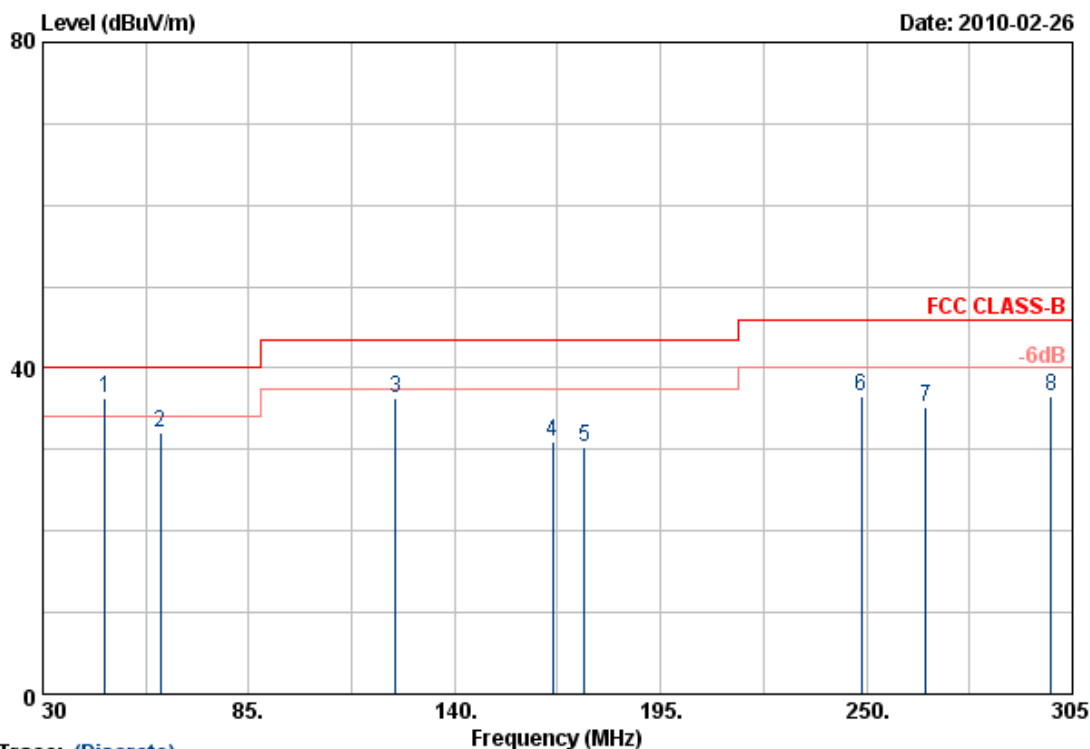


Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode	: 802.11g, CH11	Temperature	: 20 °C
Memo	:	Humidity	: 68 %





Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode	: 802.11n HT20, CH1	Temperature	: 20 °C
Memo	:	Humidity	: 65 %



Trace: (Discrete)

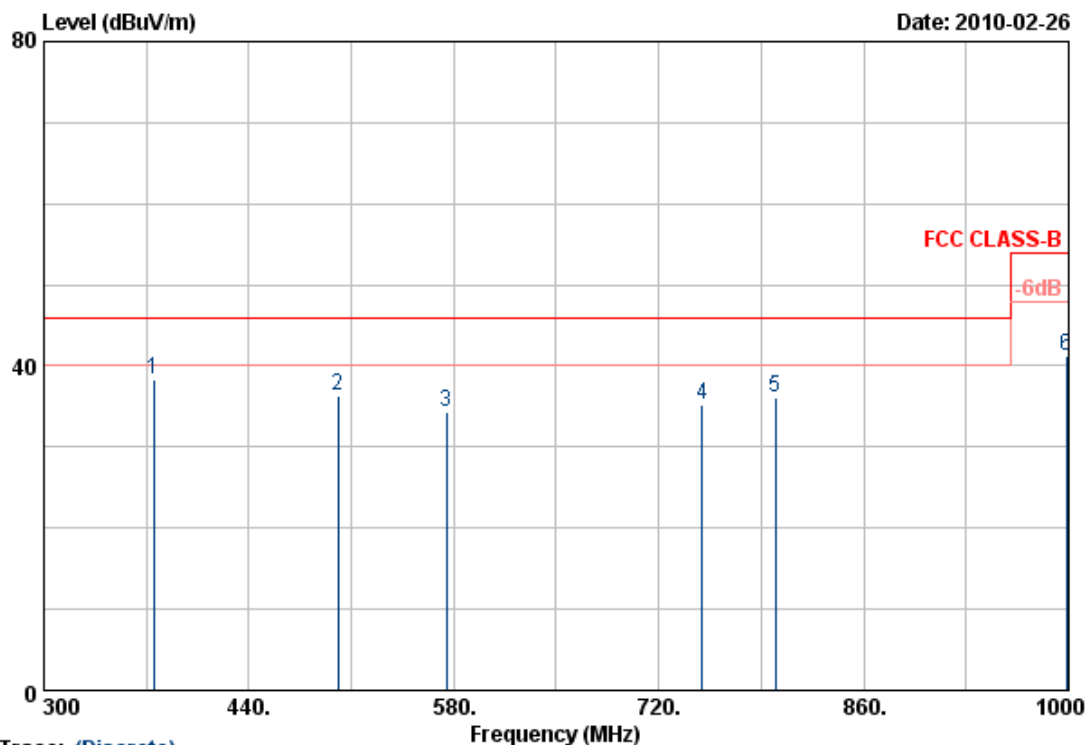
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	46.50	51.60	-15.38	36.22	40.00	-3.78	QP	100	46
2	61.35	54.20	-22.18	32.02	40.00	-7.98	QP	100	46
3	124.33	54.72	-18.36	36.36	43.50	-7.14	QP	100	88
4	166.13	49.54	-18.53	31.01	43.50	-12.49	Peak	100	88
5	174.65	49.64	-19.32	30.32	43.50	-13.18	QP	100	111
6	248.63	53.95	-17.30	36.65	46.00	-9.35	QP	100	111
7	265.95	52.13	-16.89	35.24	46.00	-10.76	QP	100	77
8	299.23	52.95	-16.38	36.57	46.00	-9.43	QP	100	77

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. All emission below 1GHz at 802.11b/g/n mode are all the same, so the 802.11g/n mode chosen as representative in final test.
5. According to technical experiences, all spurious emission of 802.11g/n mode at channel 1, 6, 11 or 3, 6, 9 (for HT40) are almost the same below 1GHz, so that the channel 1 or 3 (for HT40) was chosen as representative in final test.
6. The data is worse case.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode	: 802.11n HT20, CH1	Temperature	: 20 °C
Memo	:	Humidity	: 65 %



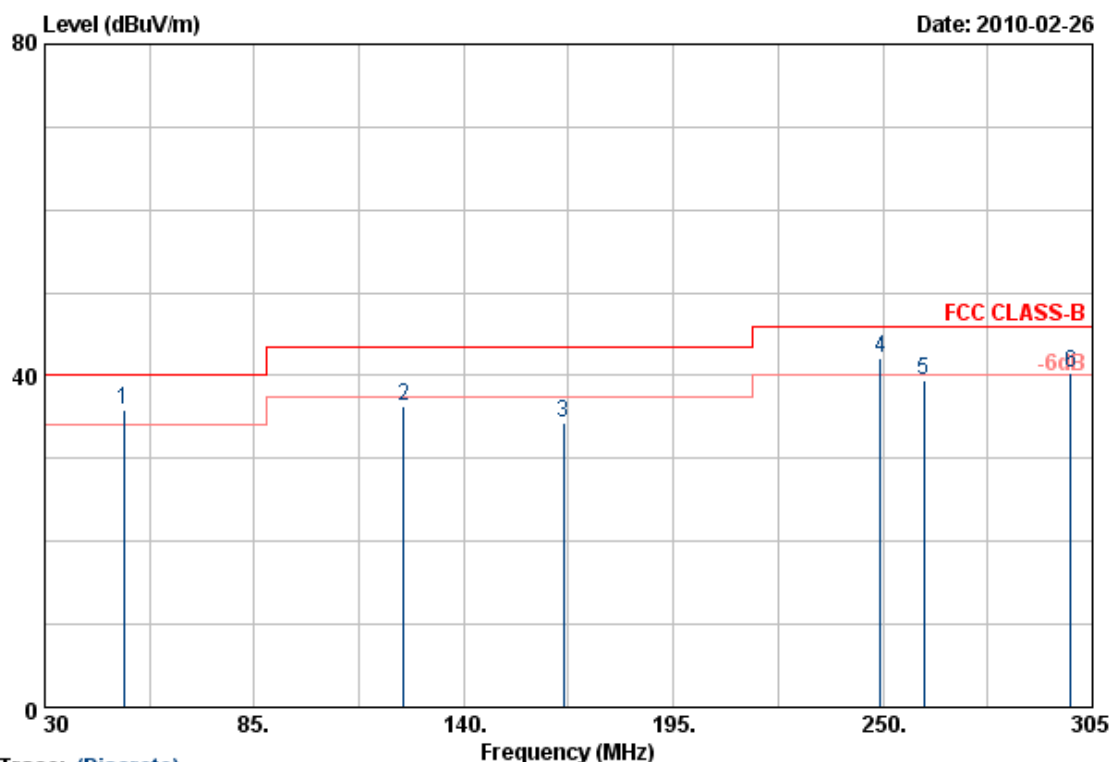
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	375.00	52.39	-14.06	38.33	46.00	-7.67	QP	100	98
2	500.90	47.57	-11.34	36.23	46.00	-9.77	QP	100	98
3	575.00	43.75	-9.51	34.24	46.00	-11.76	QP	100	98
4	749.40	41.42	-6.31	35.11	46.00	-10.89	QP	100	120
5	799.80	42.78	-6.77	36.01	46.00	-9.99	QP	100	103
6	998.60	44.53	-3.29	41.24	54.00	-12.76	QP	100	100

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. All emission below 1GHz at 802.11b/g/n mode are all the same, so the 802.11g/n mode chosen as representative in final test.
5. According to technical experiences, all spurious emission of 802.11g/n mode at channel 1, 6, 11 or 3, 6, 9 (for HT40) are almost the same below 1GHz, so that the channel 1 or 3 (for HT40) was chosen as representative in final test.
6. The data is worse case.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode	: 802.11n HT20, CH1	Temperature	: 20 °C
Memo	:	Humidity	: 65 %



Trace: (Discrete)

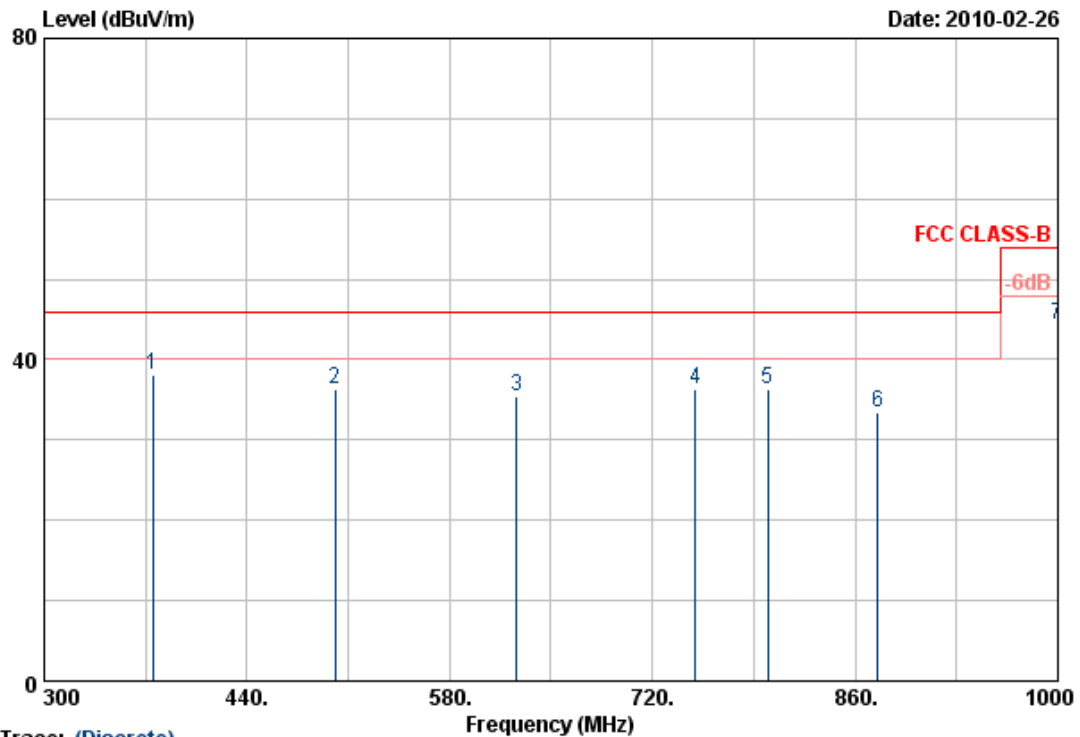
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	50.63	53.25	-17.46	35.79	40.00	-4.21	QP	100	77
2	124.33	54.75	-18.36	36.39	43.50	-7.11	Peak	100	98
3	166.13	52.85	-18.53	34.32	43.50	-9.18	Peak	100	98
4	249.45	59.45	-17.24	42.21	46.00	-3.79	QP	100	56
5	260.73	56.28	-16.91	39.37	46.00	-6.63	QP	100	56
6	299.23	56.61	-16.38	40.23	46.00	-5.77	QP	100	87

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. All emission below 1GHz at 802.11b/g/n mode are all the same, so the 802.11g/n mode chosen as representative in final test.
5. According to technical experiences, all spurious emission of 802.11g/n mode at channel 1, 6, 11 or 3, 6, 9 (for HT40) are almost the same below 1GHz, so that the channel 1 or 3 (for HT40) was chosen as representative in final test.
6. The data is worse case.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode	: 802.11n HT20, CH1	Temperature	: 20 °C
Memo	:	Humidity	: 65 %

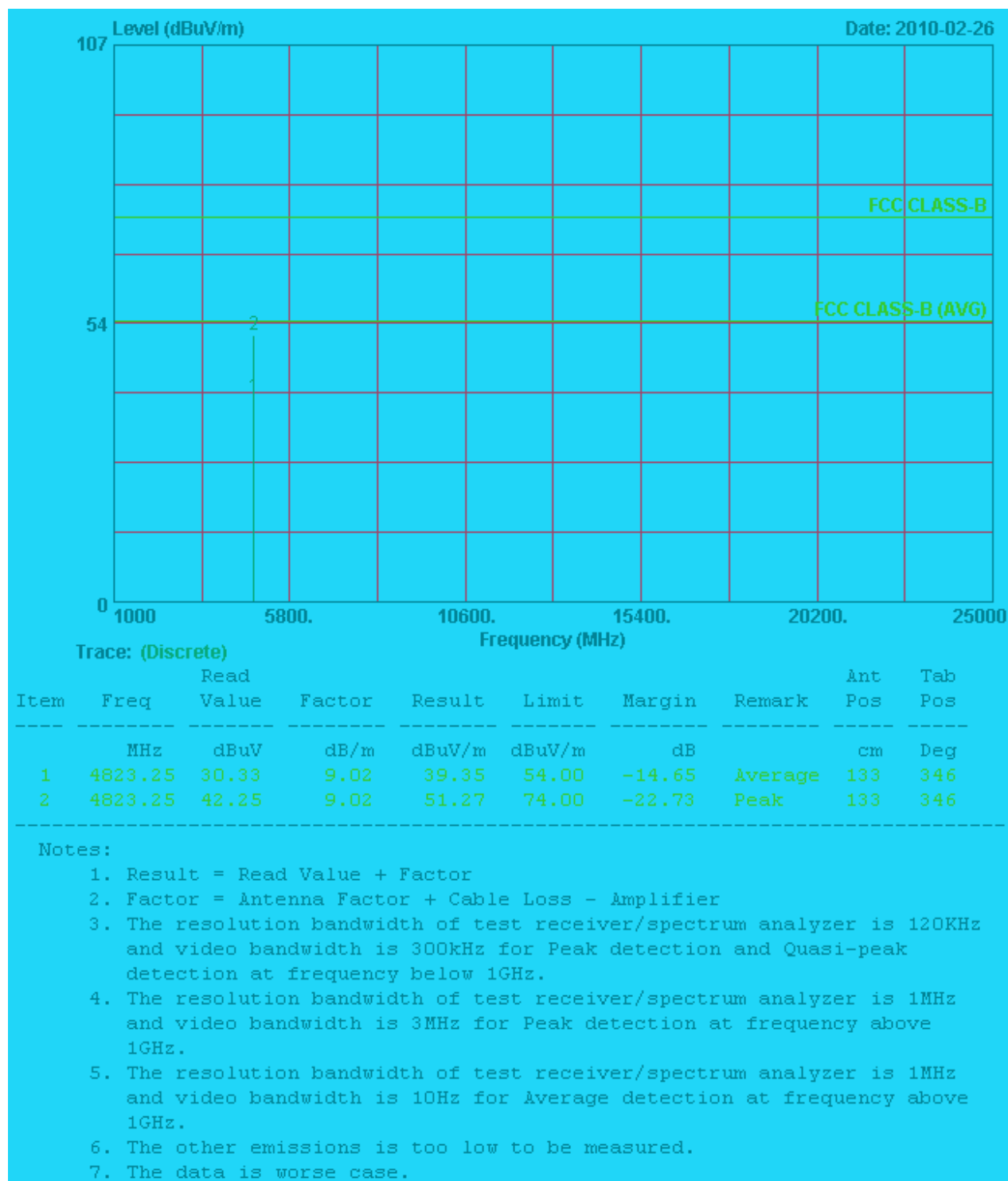


Notes:

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. All emission below 1GHz at 802.11b/g/n mode are all the same, so the 802.11g/n mode chosen as representative in final test.
5. According to technical experiences, all spurious emission of 802.11g/n mode at channel 1, 6, 11 or 3, 6, 9 (for HT40) are almost the same below 1GHz, so that the channel 1 or 3 (for HT40) was chosen as representative in final test.
6. The data is worse case.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode	: 802.11n HT20, CH1	Temperature	: 20 °C
Memo	:	Humidity	: 68 %



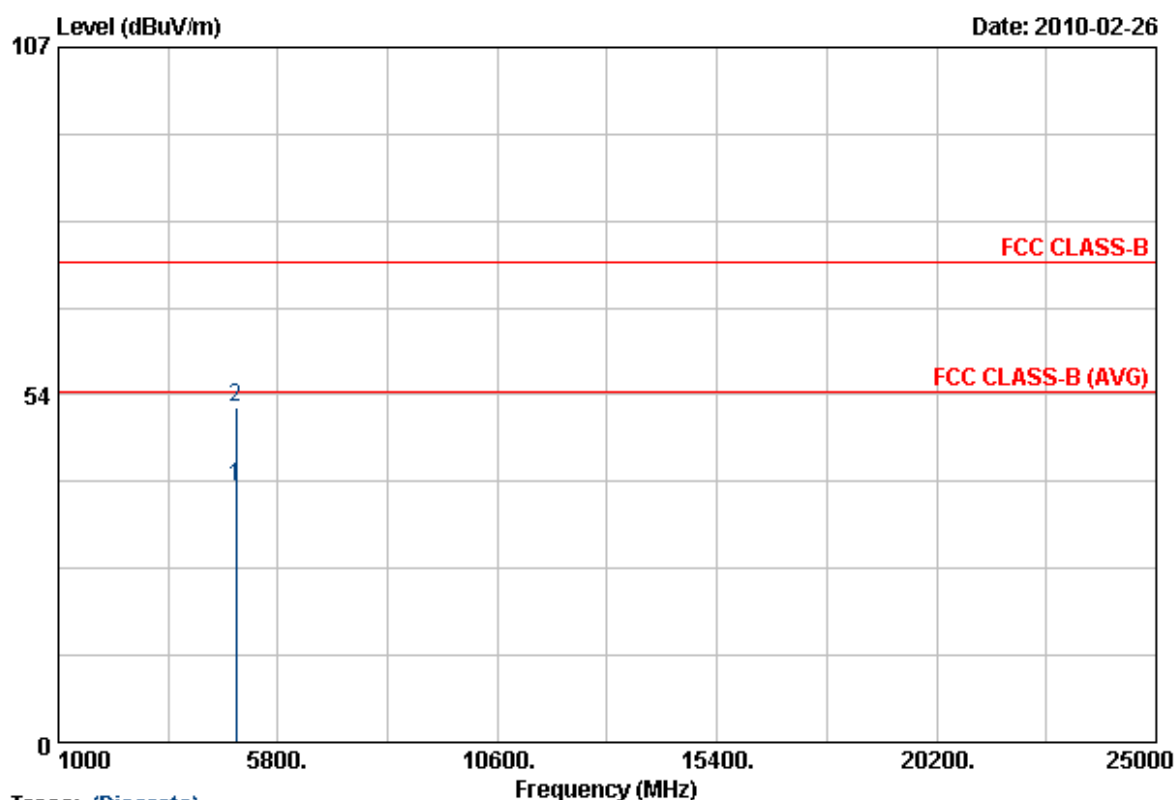


Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode	: 802.11n HT20, CH1	Temperature	: 20 °C
Memo	:	Humidity	: 68 %





Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode	: 802.11n HT20, CH6	Temperature	: 20 °C
Memo	:	Humidity	: 68 %



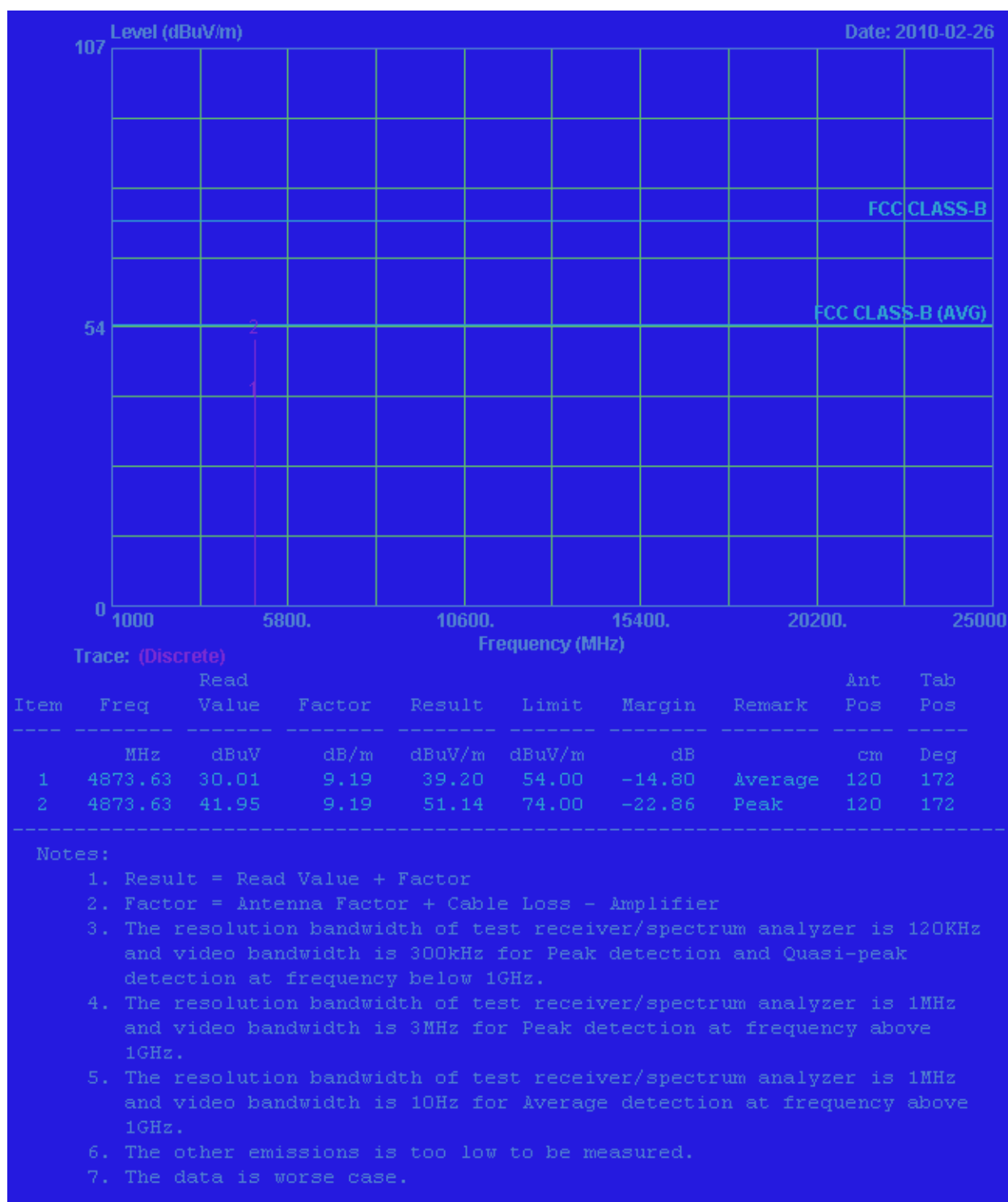
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4874.18	30.13	9.19	39.32	54.00	-14.68	Average	133	346
2	4874.18	42.24	9.19	51.43	74.00	-22.57	Peak	133	346

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.
7. The data is worse case.

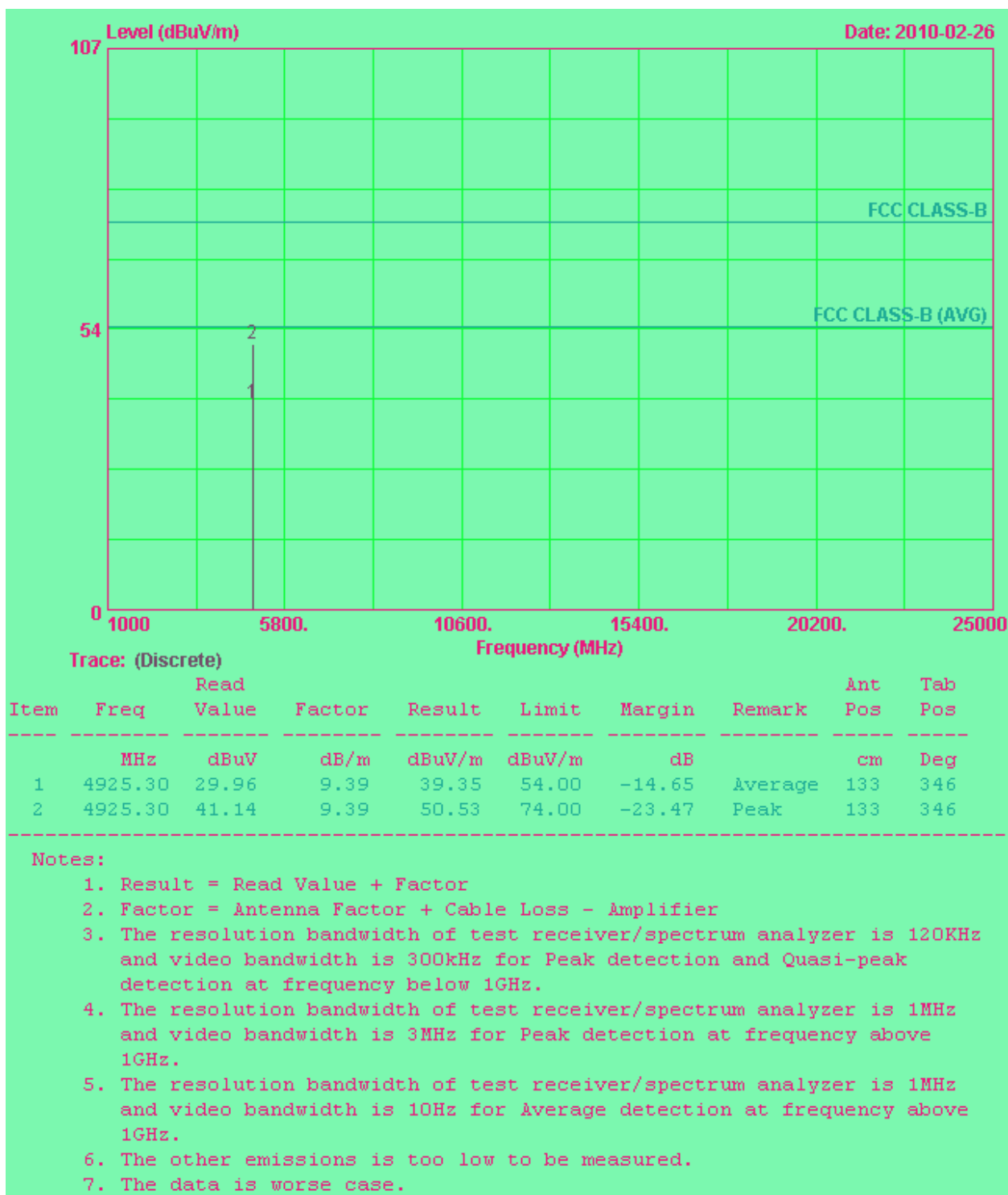


Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode	: 802.11n HT20, CH6	Temperature	: 20 °C
Memo	:	Humidity	: 68 %



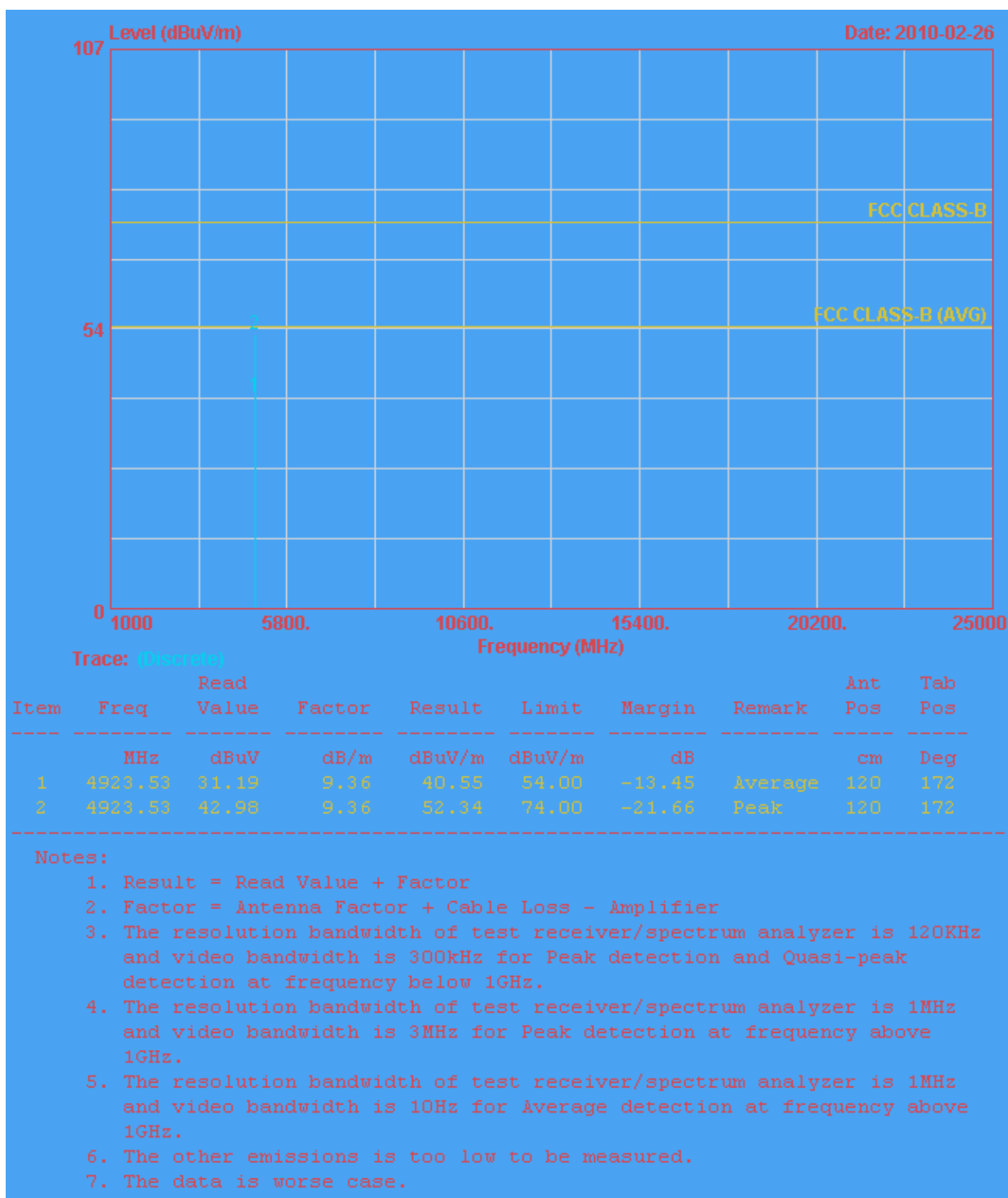


Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode	: 802.11n HT20, CH11	Temperature	: 20 °C
Memo	:	Humidity	: 68 %



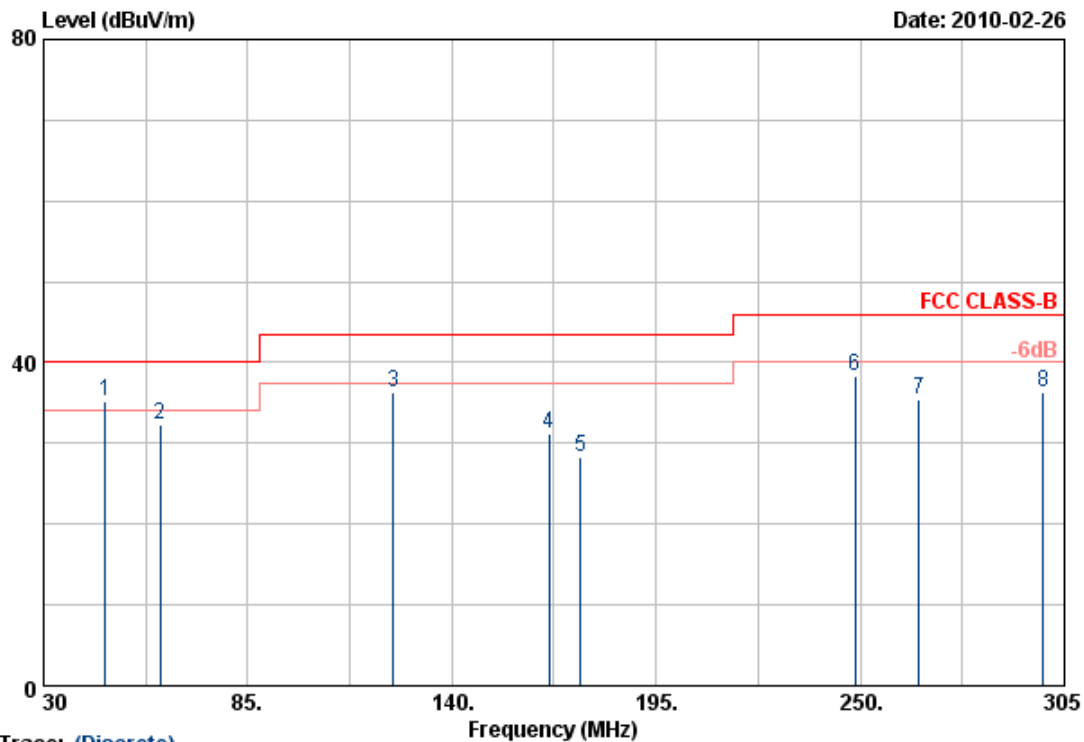


Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode	: 802.11n HT20, CH11	Temperature	: 20 °C
Memo	:	Humidity	: 68 %





Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode	: 802.11n HT40, CH3	Temperature	: 20 °C
Memo	:	Humidity	: 65 %



Trace: (Discrete)

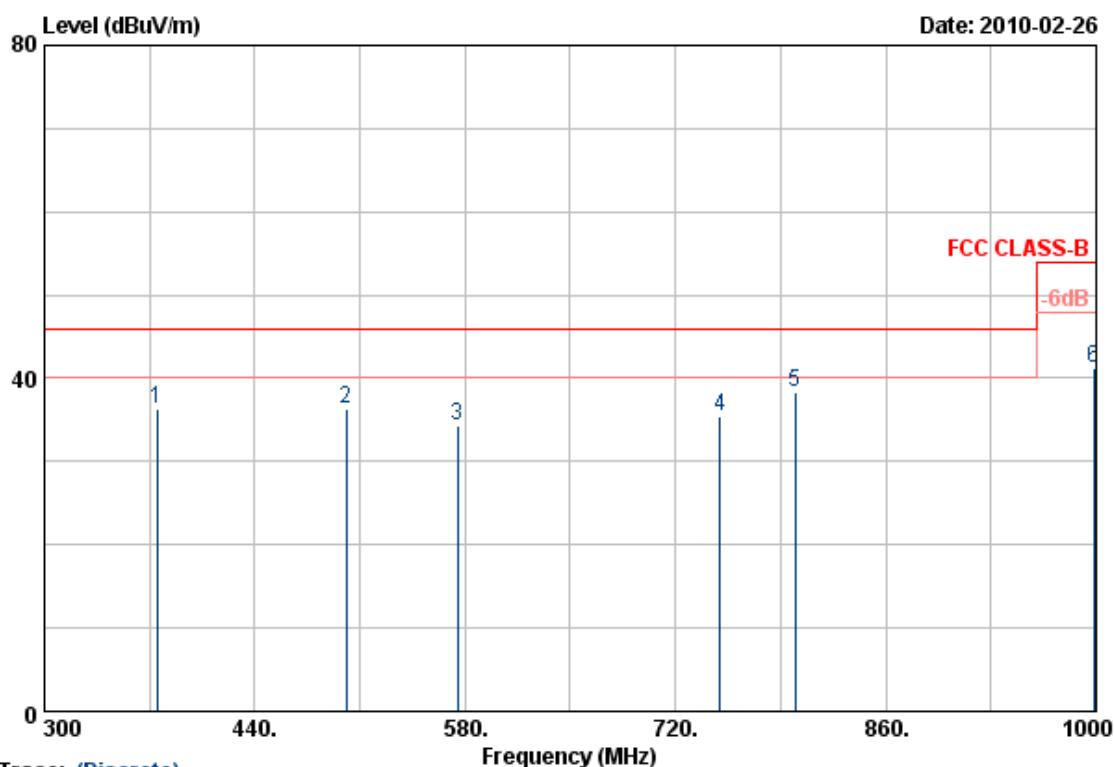
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	46.50	50.62	-15.38	35.24	40.00	-4.76	QP	100	46
2	61.35	54.52	-22.18	32.34	40.00	-7.66	QP	100	46
3	124.33	54.69	-18.36	36.33	43.50	-7.17	QP	100	88
4	166.13	49.76	-18.53	31.23	43.50	-12.27	Peak	100	88
5	174.65	47.69	-19.32	28.37	43.50	-15.13	QP	100	111
6	248.63	55.67	-17.30	38.37	46.00	-7.63	QP	100	111
7	265.95	52.26	-16.89	35.37	46.00	-10.63	QP	100	77
8	299.23	52.75	-16.38	36.37	46.00	-9.63	QP	100	77

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. All emission below 1GHz at 802.11b/g/n mode are all the same, so the 802.11g/n mode chosen as representative in final test.
5. According to technical experiences, all spurious emission of 802.11g/n mode at channel 1, 6, 11 or 3, 6, 9 (for HT40) are almost the same below 1GHz, so that the channel 1 or 3 (for HT40) was chosen as representative in final test.
6. The data is worse case.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode	: 802.11n HT40, CH3	Temperature	: 20 °C
Memo	:	Humidity	: 65 %



Trace: (Discrete)

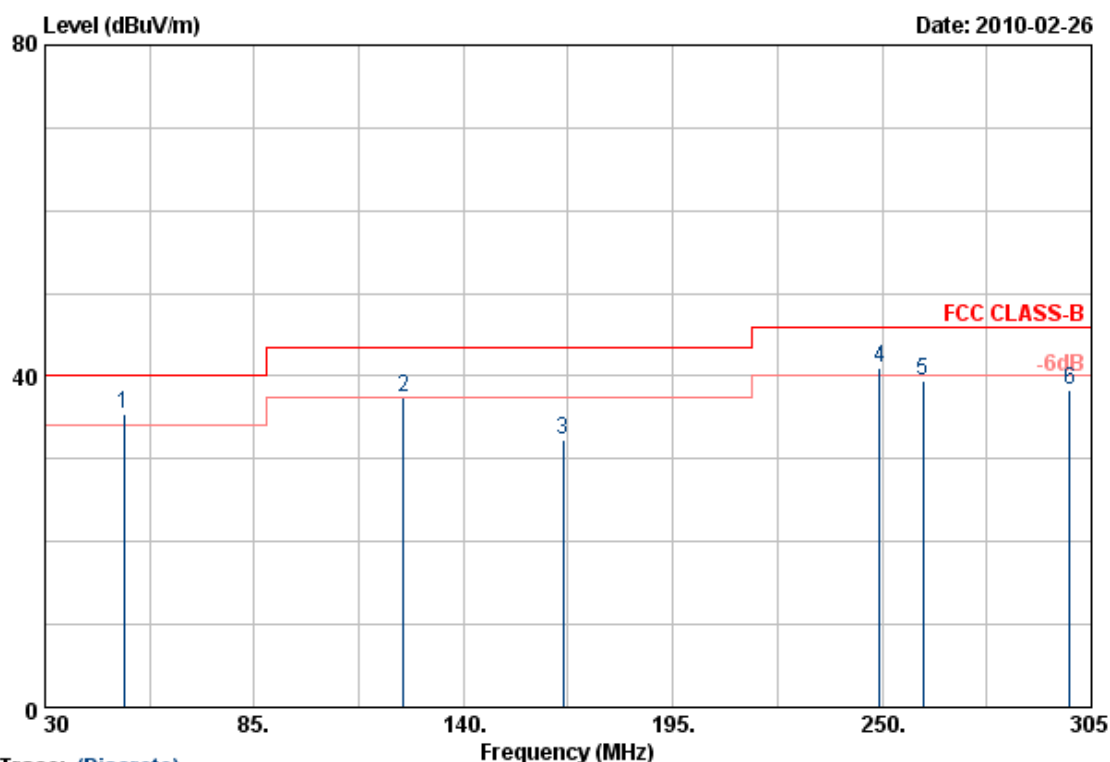
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	375.00	50.43	-14.06	36.37	46.00	-9.63	QP	100	98
2	500.90	47.67	-11.34	36.33	46.00	-9.67	QP	100	98
3	575.00	43.88	-9.51	34.37	46.00	-11.63	QP	100	98
4	749.40	41.64	-6.31	35.33	46.00	-10.67	QP	100	120
5	799.80	45.14	-6.77	38.37	46.00	-7.63	QP	100	103
6	998.60	44.62	-3.29	41.33	54.00	-12.67	QP	100	100

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. All emission below 1GHz at 802.11b/g/n mode are all the same, so the 802.11g/n mode chosen as representative in final test.
5. According to technical experiences, all spurious emission of 802.11g/n mode at channel 1, 6, 11 or 3, 6, 9 (for HT40) are almost the same below 1GHz, so that the channel 1 or 3 (for HT40) was chosen as representative in final test.
6. The data is worse case.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode	: 802.11n HT40, CH3	Temperature	: 20 °C
Memo	:	Humidity	: 65 %



Trace: (Discrete)

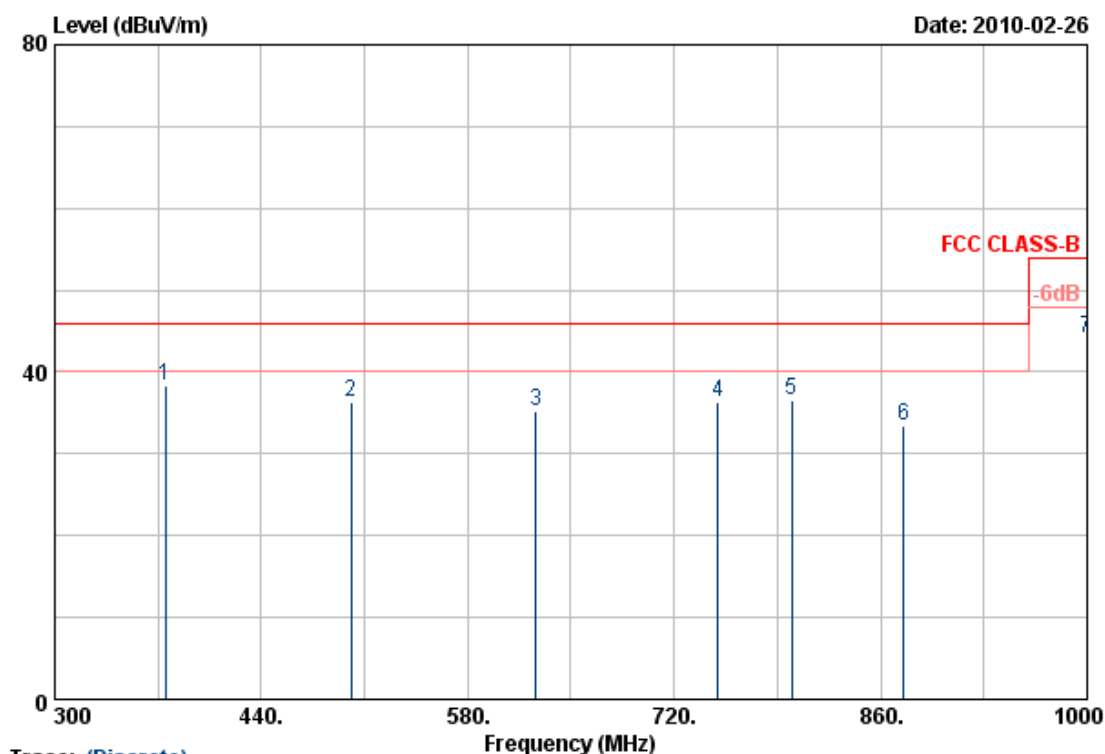
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	50.63	52.83	-17.46	35.37	40.00	-4.63	QP	100	77
2	124.33	55.69	-18.36	37.33	43.50	-6.17	Peak	100	98
3	166.13	50.86	-18.53	32.33	43.50	-11.17	Peak	100	98
4	249.45	58.27	-17.24	41.03	46.00	-4.97	QP	100	56
5	260.73	56.28	-16.91	39.37	46.00	-6.63	QP	100	56
6	299.23	54.72	-16.38	38.34	46.00	-7.66	QP	100	87

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. All emission below 1GHz at 802.11b/g/n mode are all the same,so the 802.11g/n mode chosen as representative in final test.
5. According to technical experiences,all spurious emission of 802.11g/n mode at channel 1,6,11 or 3,6,9(for HT40) are almost the same below 1GHz,so that the channel 1 or 3(for HT40)was chosen as representative in final test.
6. The data is worse case.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode	: 802.11n HT40, CH3	Temperature	: 20 °C
Memo	:	Humidity	: 65 %



Trace: (Discrete)

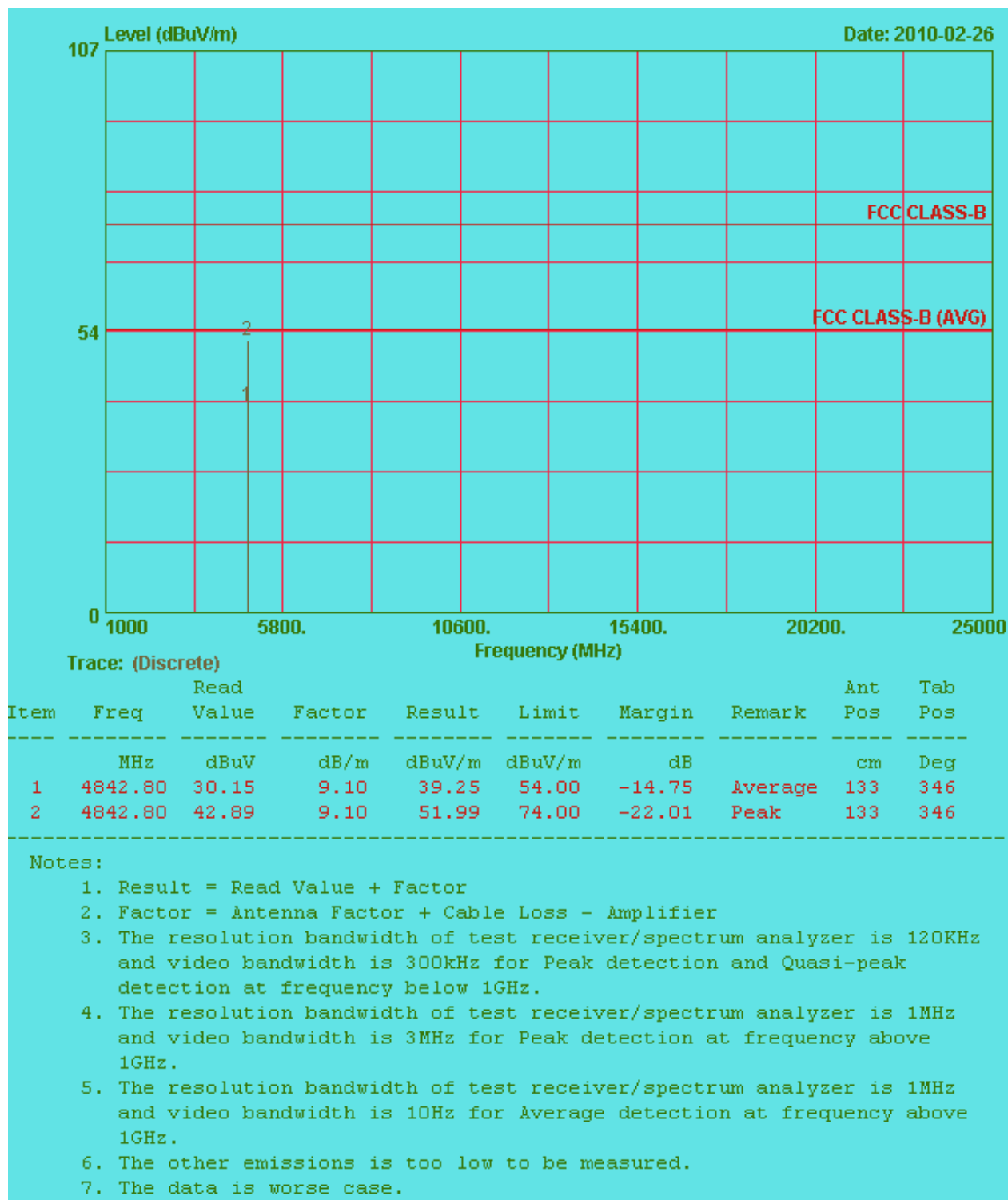
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	375.00	52.42	-14.06	38.36	46.00	-7.64	QP	100	99
2	500.90	47.67	-11.34	36.33	46.00	-9.67	QP	100	122
3	626.20	44.22	-9.00	35.22	46.00	-10.78	QP	100	177
4	749.40	42.68	-6.31	36.37	46.00	-9.63	QP	100	147
5	799.80	43.33	-6.77	36.56	46.00	-9.44	QP	100	147
6	875.40	39.38	-6.05	33.33	46.00	-12.67	QP	100	147
7	999.90	47.50	-3.28	44.22	54.00	-9.78	QP	100	147

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. All emission below 1GHz at 802.11b/g/n mode are all the same, so the 802.11g/n mode chosen as representative in final test.
5. According to technical experiences, all spurious emission of 802.11g/n mode at channel 1, 6, 11 or 3, 6, 9 (for HT40) are almost the same below 1GHz, so that the channel 1 or 3 (for HT40) was chosen as representative in final test.
6. The data is worse case.

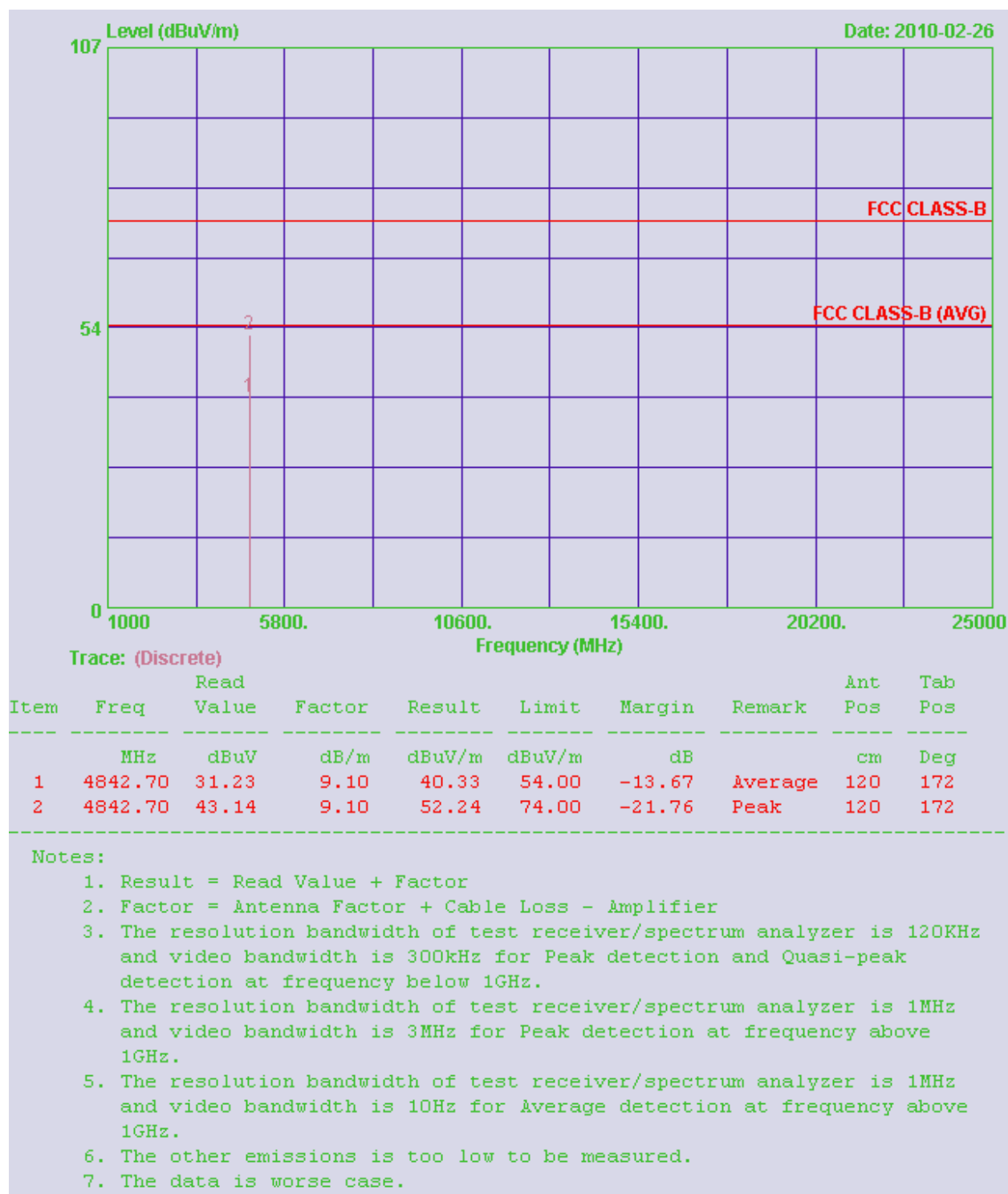


Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode	: 802.11n HT40, CH3	Temperature	: 20 °C
Memo	:	Humidity	: 68 %



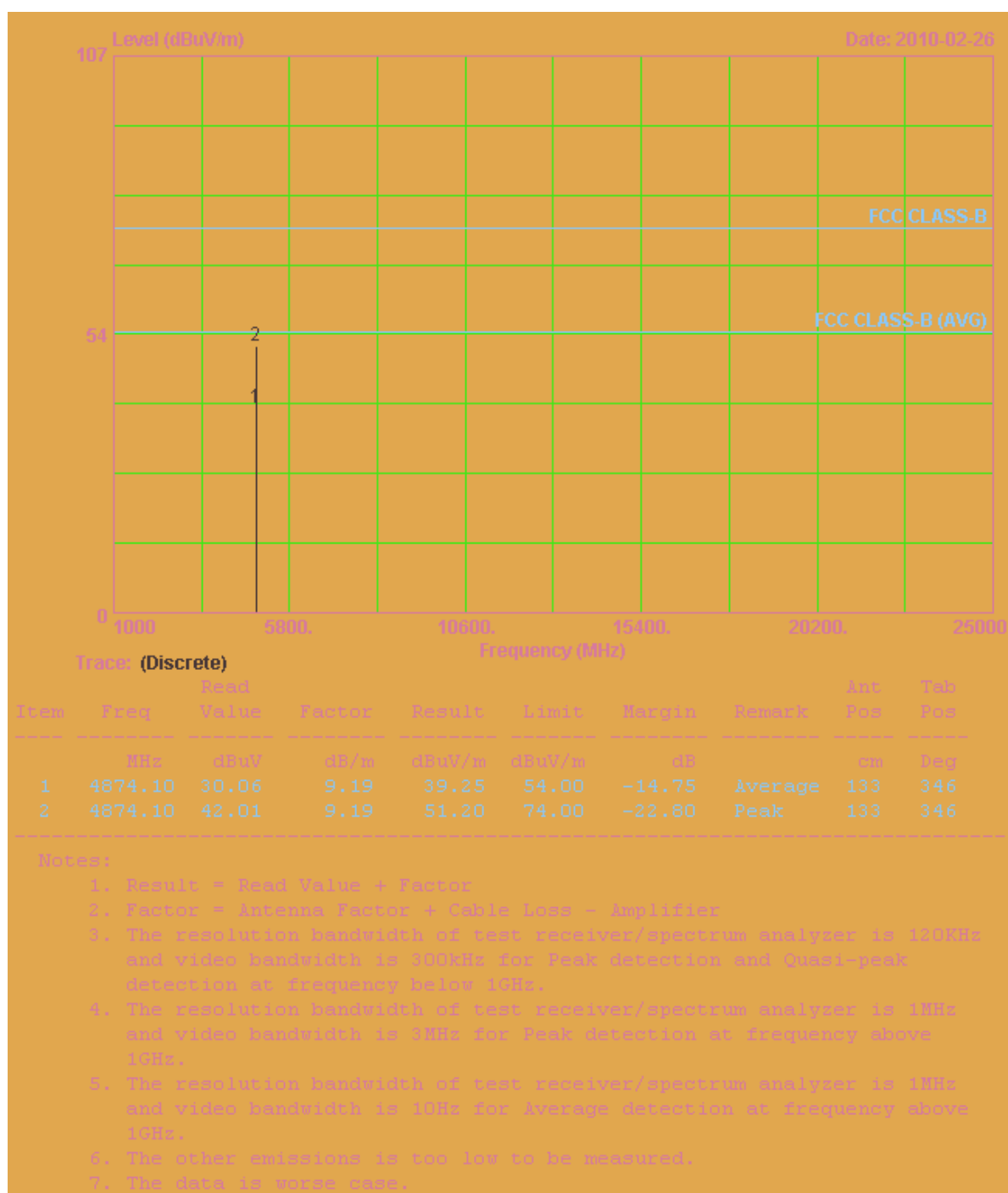


Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode	: 802.11n HT40, CH3	Temperature	: 20 °C
Memo	:	Humidity	: 68 %



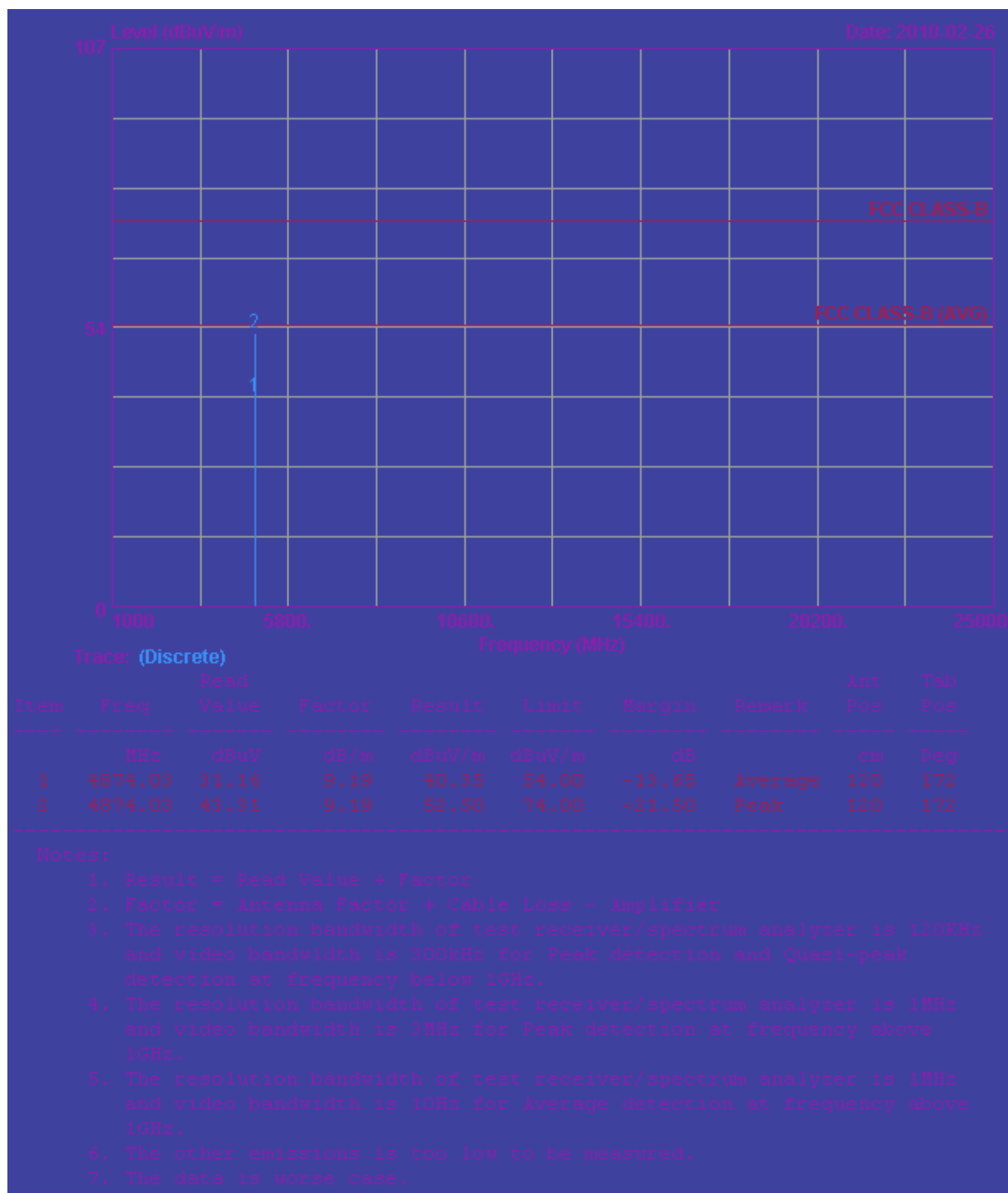


Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode	: 802.11n HT40, CH6	Temperature	: 20 °C
Memo	:	Humidity	: 68 %



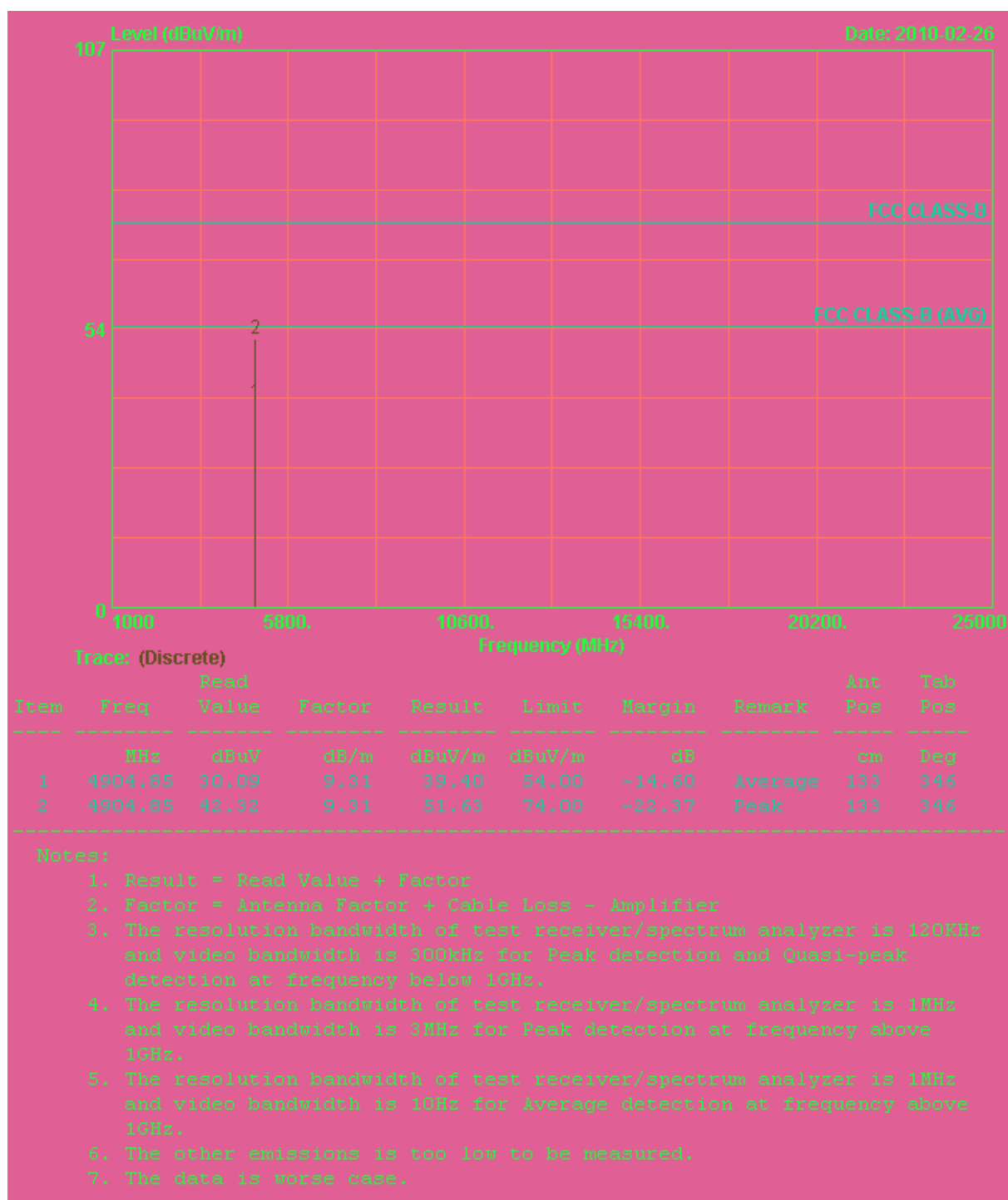


Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode	: 802.11n HT40, CH6	Temperature	: 20 °C
Memo	:	Humidity	: 68 %



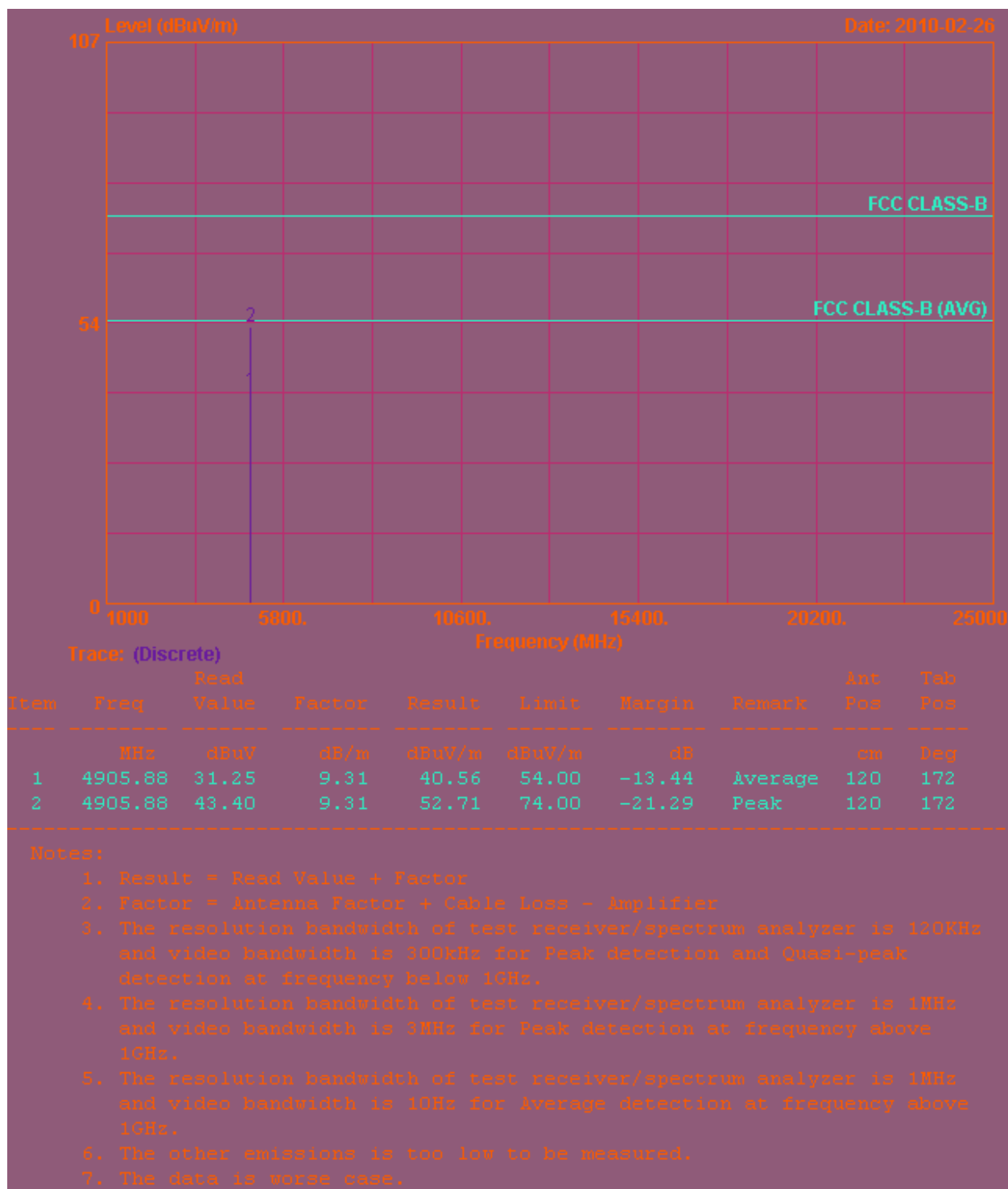


Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode	: 802.11n HT40, CH11	Temperature	: 20 °C
Memo	:	Humidity	: 68 %



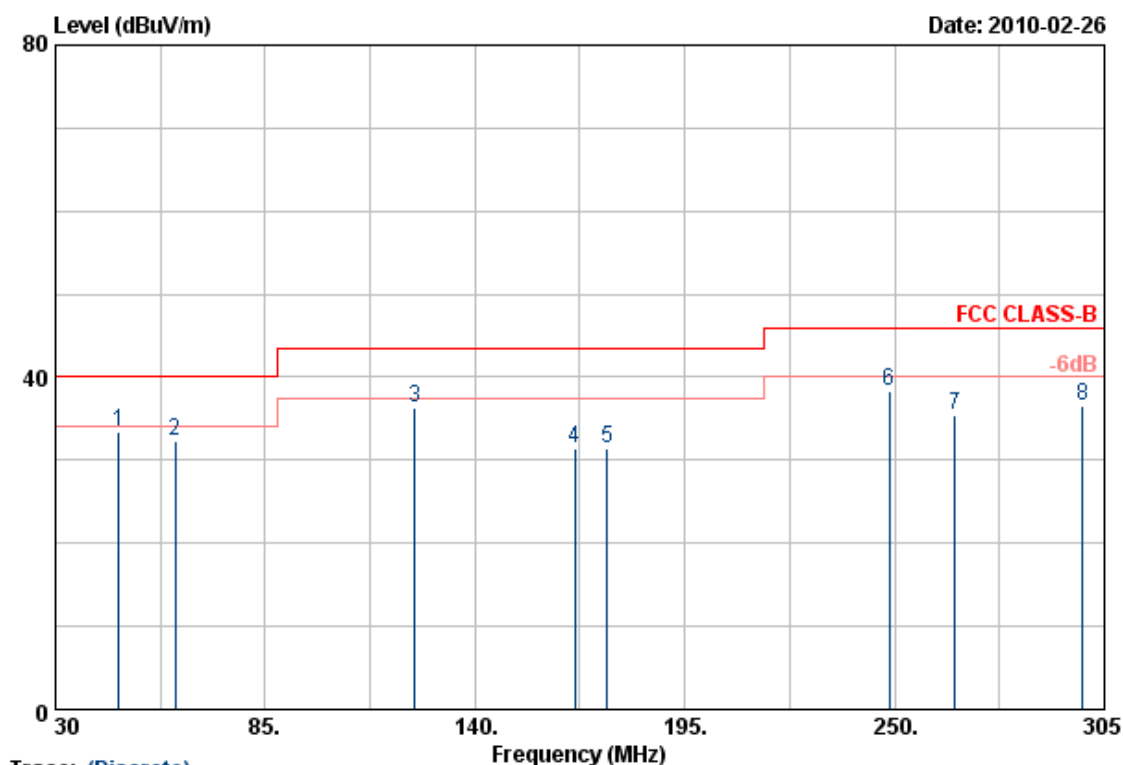


Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode	: 802.11n HT40, CH11	Temperature	: 20 °C
Memo	:	Humidity	: 68 %





Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode	: 802.11a, CH149	Temperature	: 20 °C
Memo	:	Humidity	: 65 %



Trace: (Discrete)

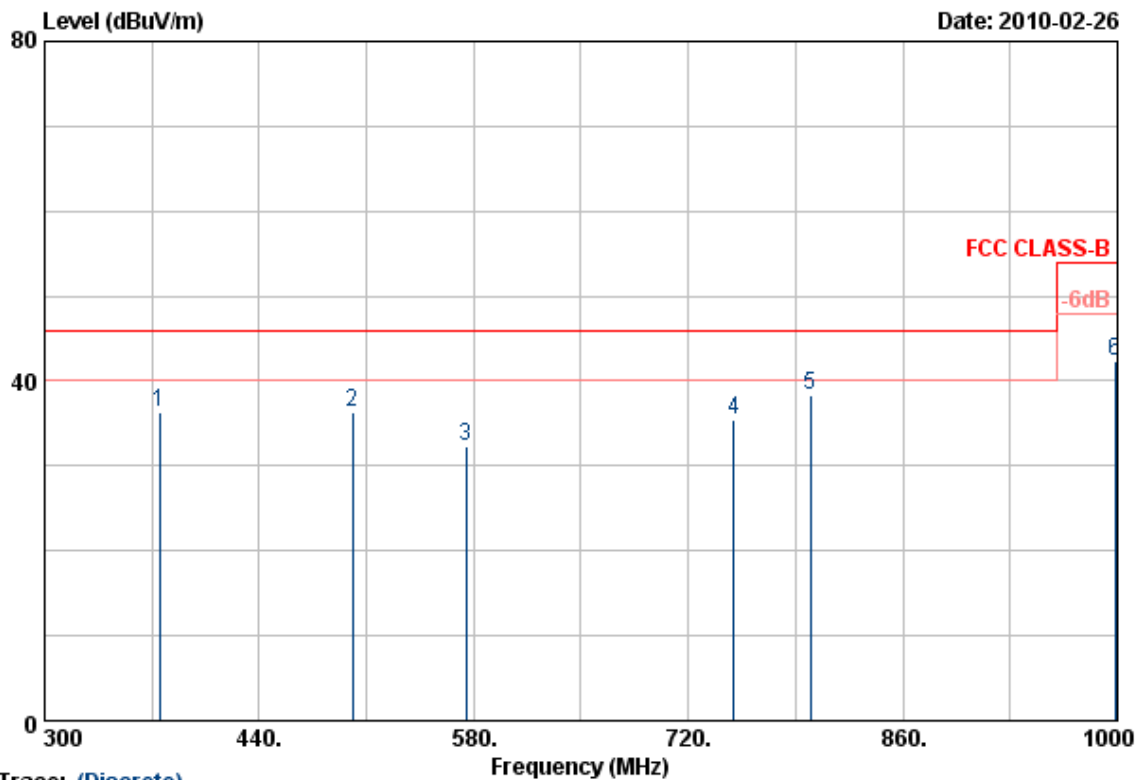
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	46.50	48.71	-15.38	33.33	40.00	-6.67	QP	100	46
2	61.35	54.50	-22.18	32.32	40.00	-7.68	QP	100	46
3	124.33	54.72	-18.36	36.36	43.50	-7.14	QP	100	88
4	166.13	49.90	-18.53	31.37	43.50	-12.13	Peak	100	88
5	174.65	50.68	-19.32	31.36	43.50	-12.14	QP	100	111
6	248.63	55.67	-17.30	38.37	46.00	-7.63	QP	100	111
7	265.95	52.26	-16.89	35.37	46.00	-10.63	QP	100	77
8	299.23	53.02	-16.38	36.64	46.00	-9.36	QP	100	77

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/an mode at Band1~4 channel are almost the same below 1GHz, so that the channel 36 or 38 (for HT40), channel 149 or 151 (for HT40) was chosen as representative in final test.
5. The data is worse case.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode	: 802.11a, CH149	Temperature	: 20 °C
Memo	:	Humidity	: 65 %



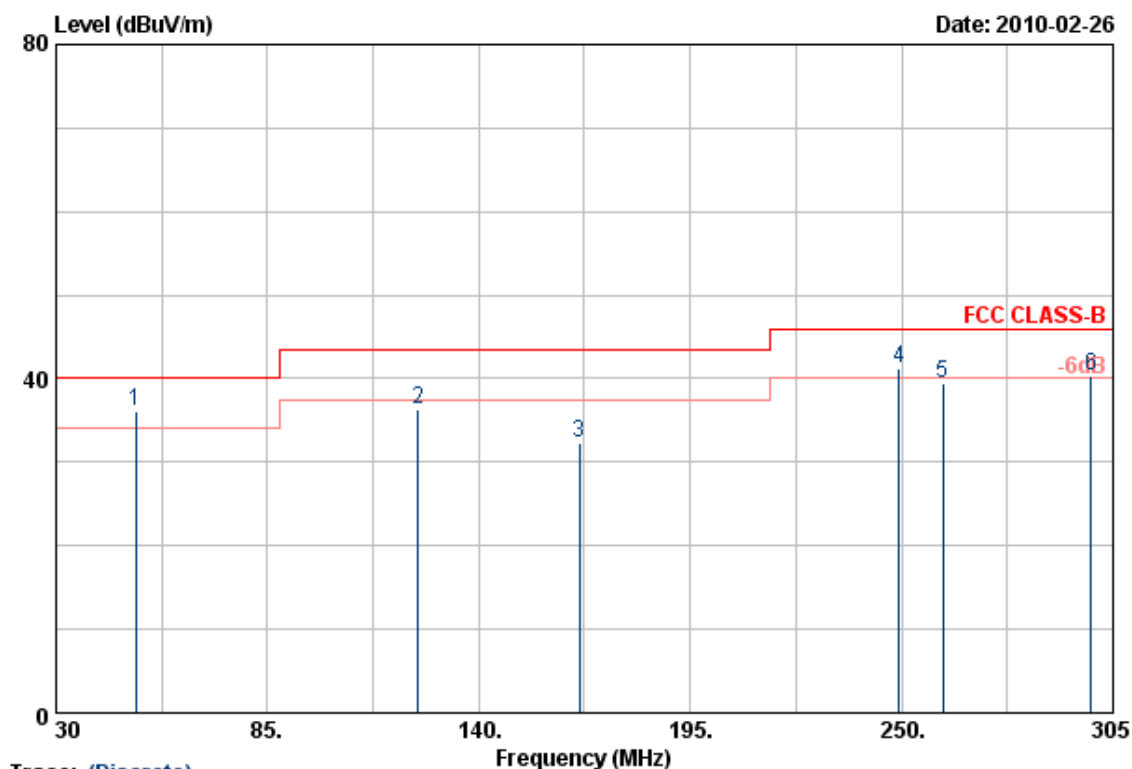
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	375.00	50.39	-14.06	36.33	46.00	-9.67	QP	100	98
2	500.90	47.67	-11.34	36.33	46.00	-9.67	QP	100	98
3	575.00	41.84	-9.51	32.33	46.00	-13.67	QP	100	98
4	749.40	41.68	-6.31	35.37	46.00	-10.63	QP	100	120
5	799.80	45.12	-6.77	38.35	46.00	-7.65	QP	100	103
6	998.60	45.66	-3.29	42.37	54.00	-11.63	QP	100	100

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/an mode at Band1~4 channel are almost the same below 1GHz, so that the channel 36 or 38 (for HT40), channel 149 or 151 (for HT40) was chosen as representative in final test.
5. The data is worse case.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode	: 802.11a, CH149	Temperature	: 20 °C
Memo	:	Humidity	: 65 %



Trace: (Discrete)

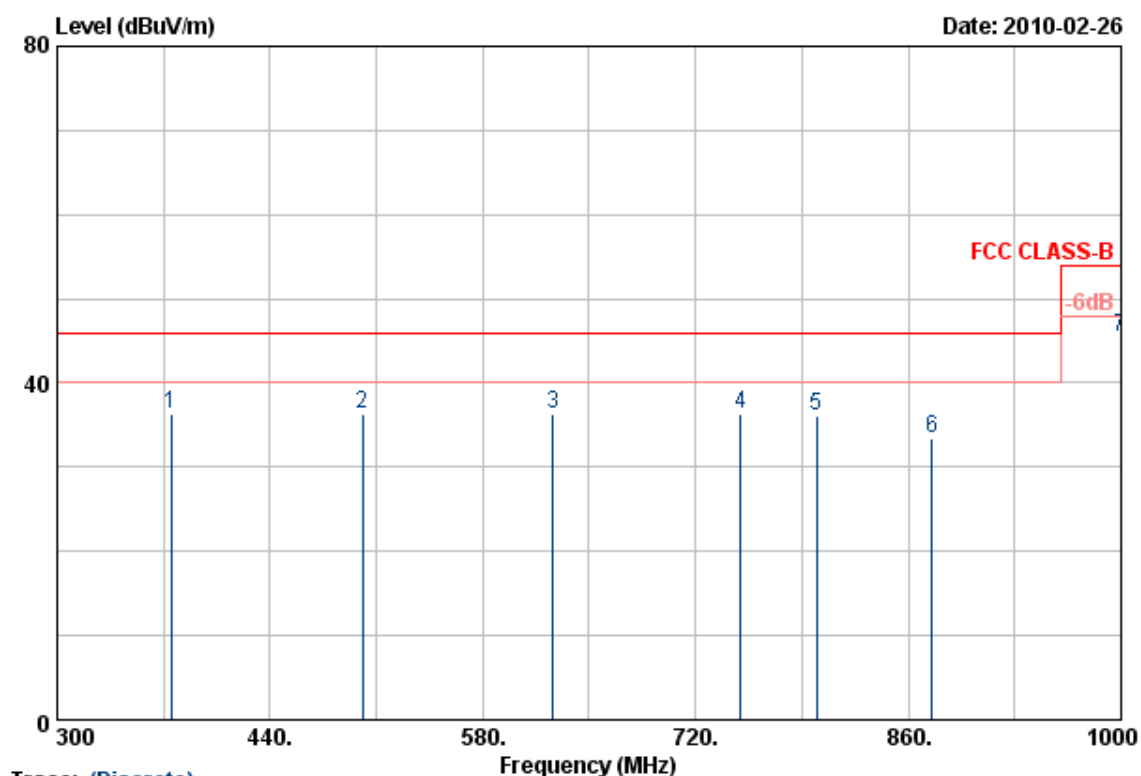
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	50.63	53.46	-17.46	36.00	40.00	-4.00	QP	100	77
2	124.33	54.68	-18.36	36.32	43.50	-7.18	Peak	100	98
3	166.13	50.86	-18.53	32.33	43.50	-11.17	Peak	100	98
4	249.45	58.57	-17.24	41.33	46.00	-4.67	QP	100	56
5	260.73	56.24	-16.91	39.33	46.00	-6.67	QP	100	56
6	299.23	56.73	-16.38	40.35	46.00	-5.65	QP	100	87

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/an mode at Band1~4 channel are almost the same below 1GHz, so that the channel 36 or 38 (for HT40), channel 149 or 151 (for HT40) was chosen as representative in final test.
5. The data is worse case.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode	: 802.11a, CH149	Temperature	: 20 °C
Memo	:	Humidity	: 65 %



Trace: (Discrete)

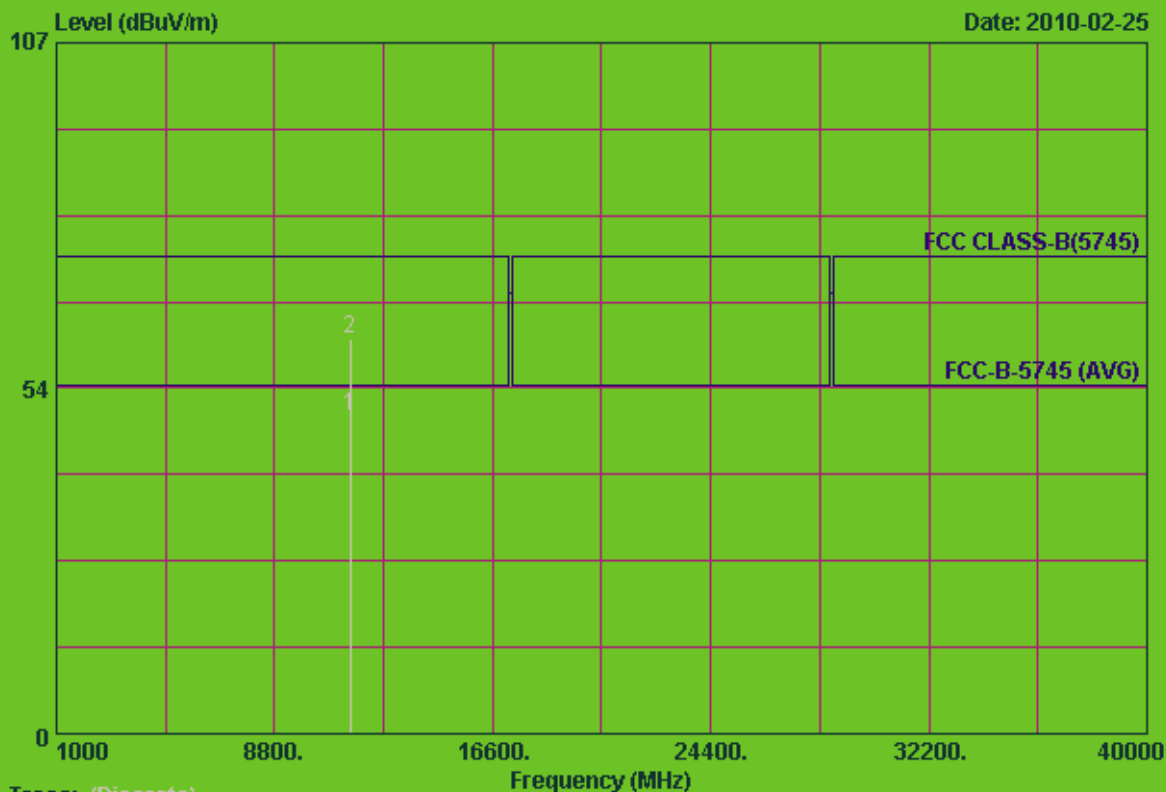
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	375.00	50.39	-14.06	36.33	46.00	-9.67	QP	100	99
2	500.90	47.67	-11.34	36.33	46.00	-9.67	QP	100	122
3	626.20	45.32	-9.00	36.32	46.00	-9.68	QP	100	177
4	749.40	42.67	-6.31	36.36	46.00	-9.64	QP	100	147
5	799.80	42.98	-6.77	36.21	46.00	-9.79	QP	100	147
6	875.40	39.40	-6.05	33.35	46.00	-12.65	QP	100	147
7	999.90	48.64	-3.28	45.36	54.00	-8.64	QP	100	147

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/an mode at Band1~4 channel are almost the same below 1GHz, so that the channel 36 or 38 (for HT40), channel 149 or 151 (for HT40) was chosen as representative in final test.
5. The data is worse case.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode	: 802.11a, CH149	Temperature	: 27 °C
Memo	:	Humidity	: 70 %



Trace: (Discrete)

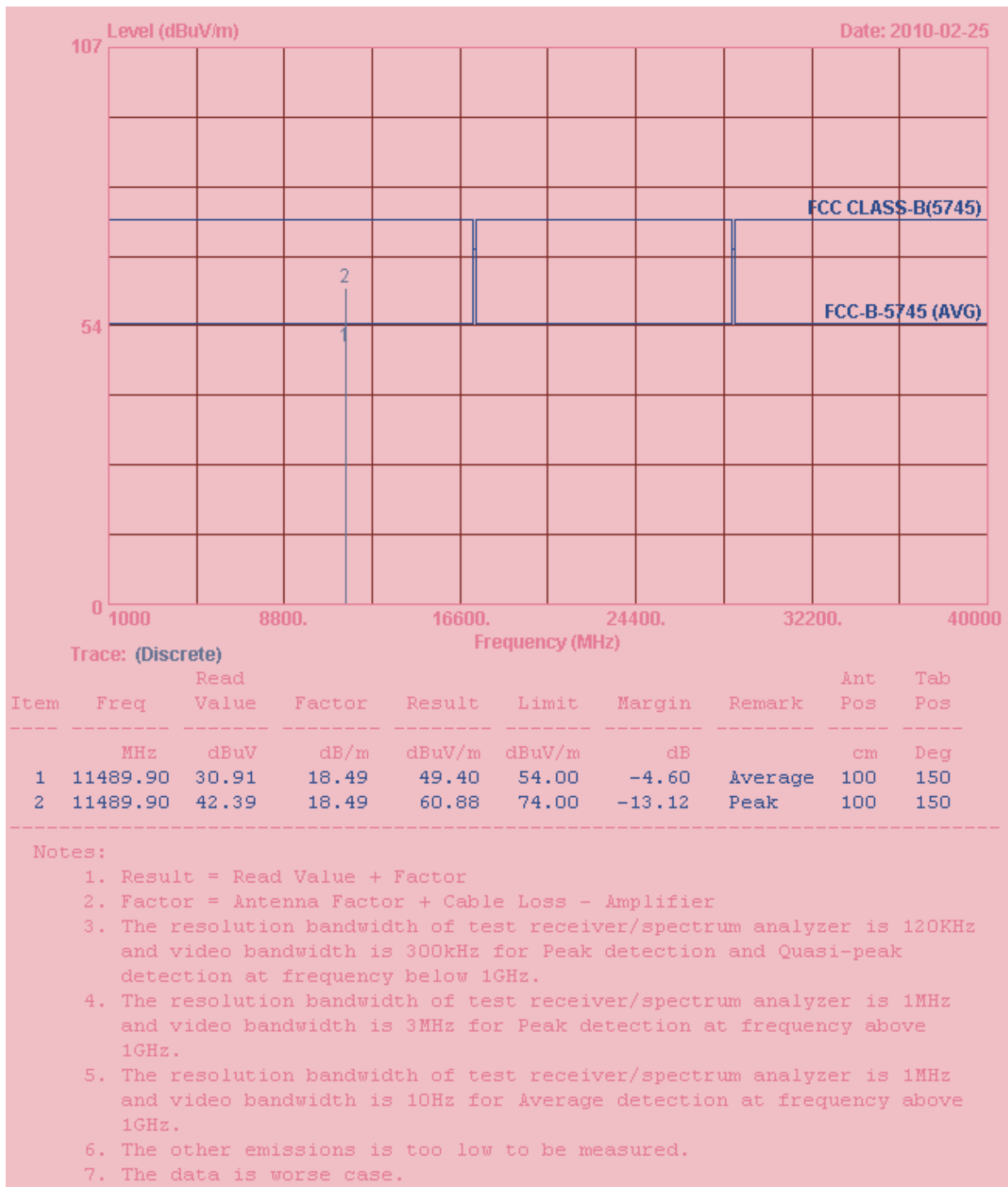
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	11489.95	30.77	18.49	49.26	54.00	-4.74	Average	100	257
2	11489.95	42.58	18.49	61.07	74.00	-12.93	Peak	100	257

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.
7. The data is worse case.

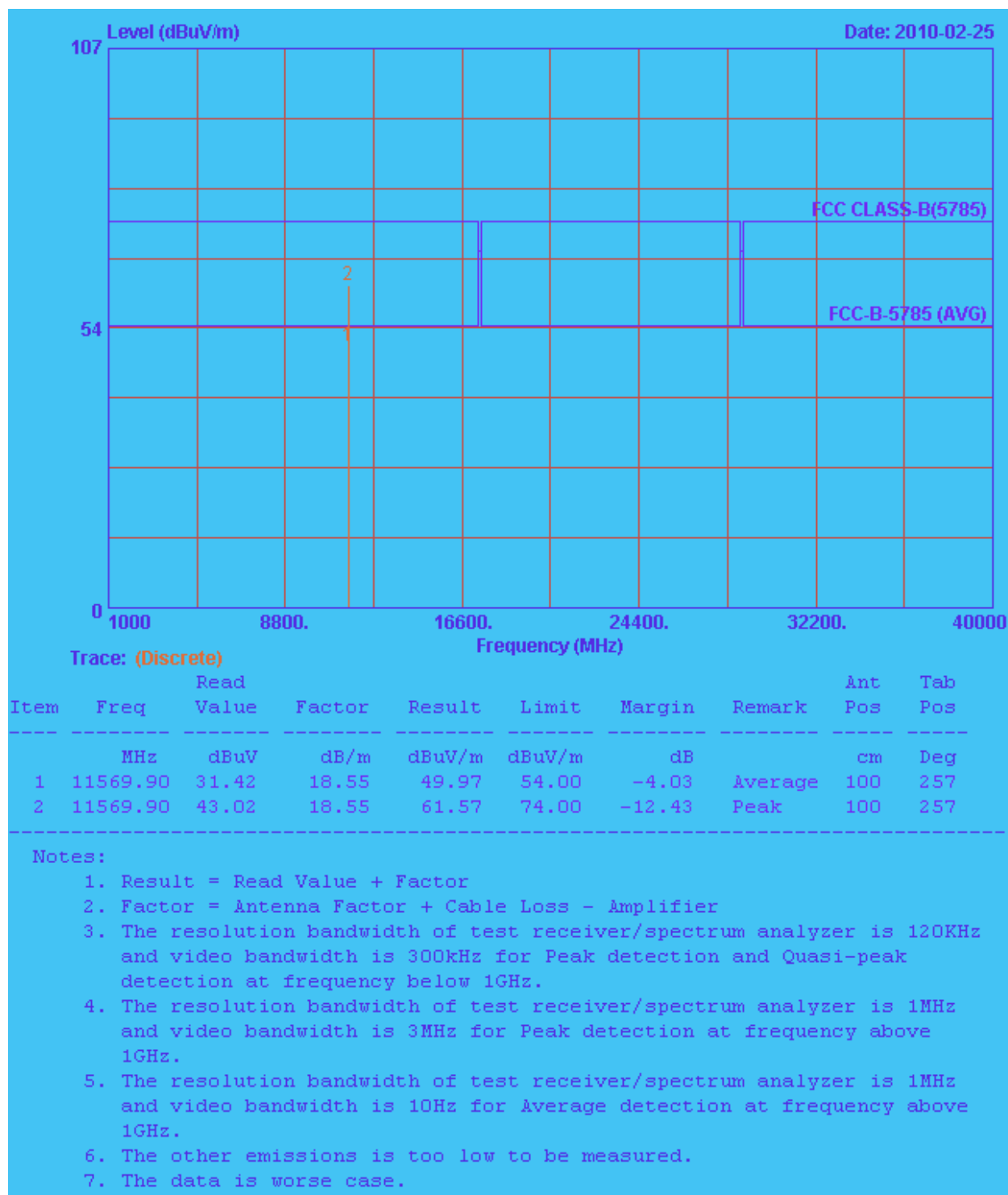


Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode	: 802.11a, CH149	Temperature	: 27 °C
Memo	:	Humidity	: 70 %



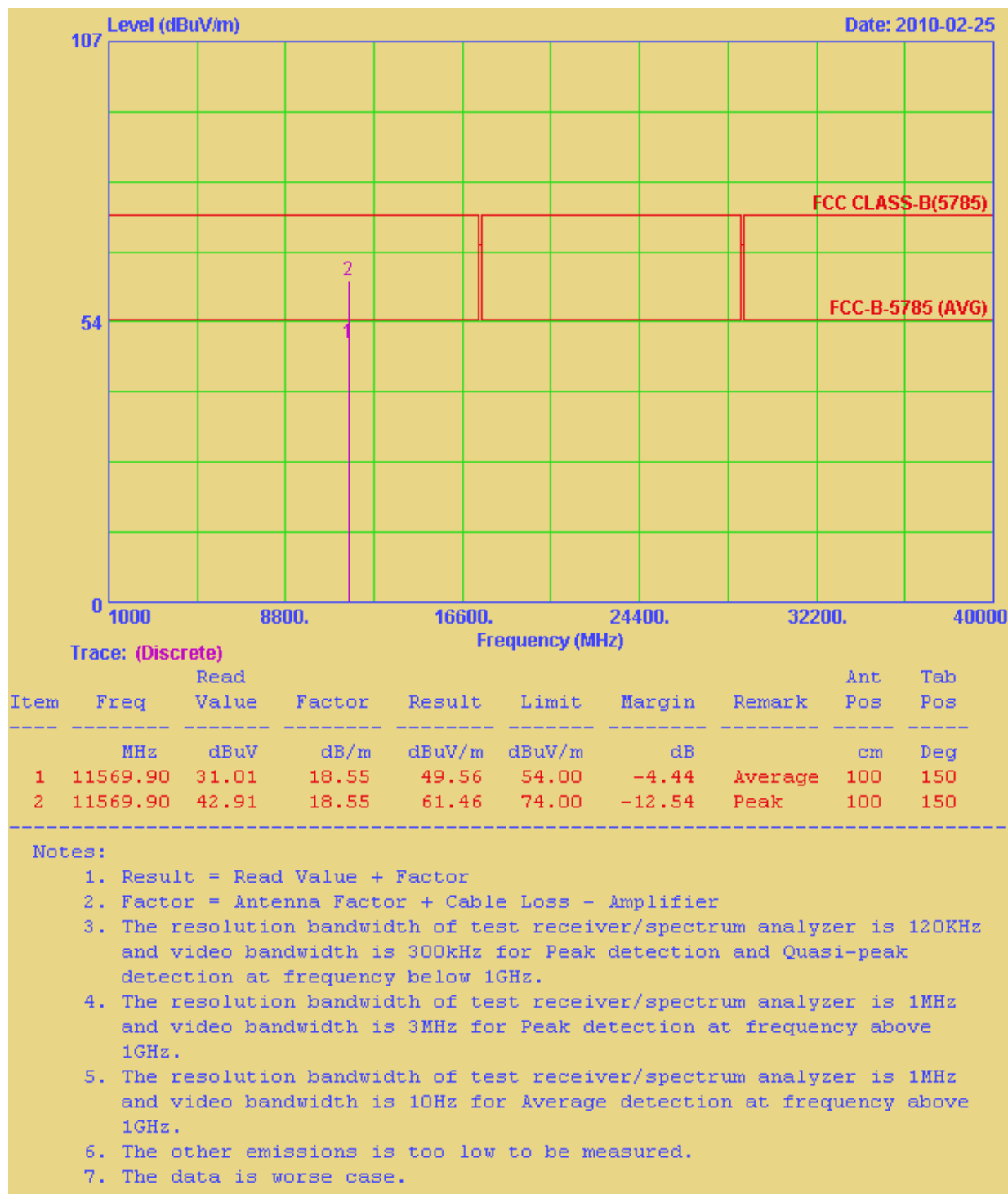


Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode	: 802.11a, CH157	Temperature	: 27 °C
Memo	:	Humidity	: 70 %



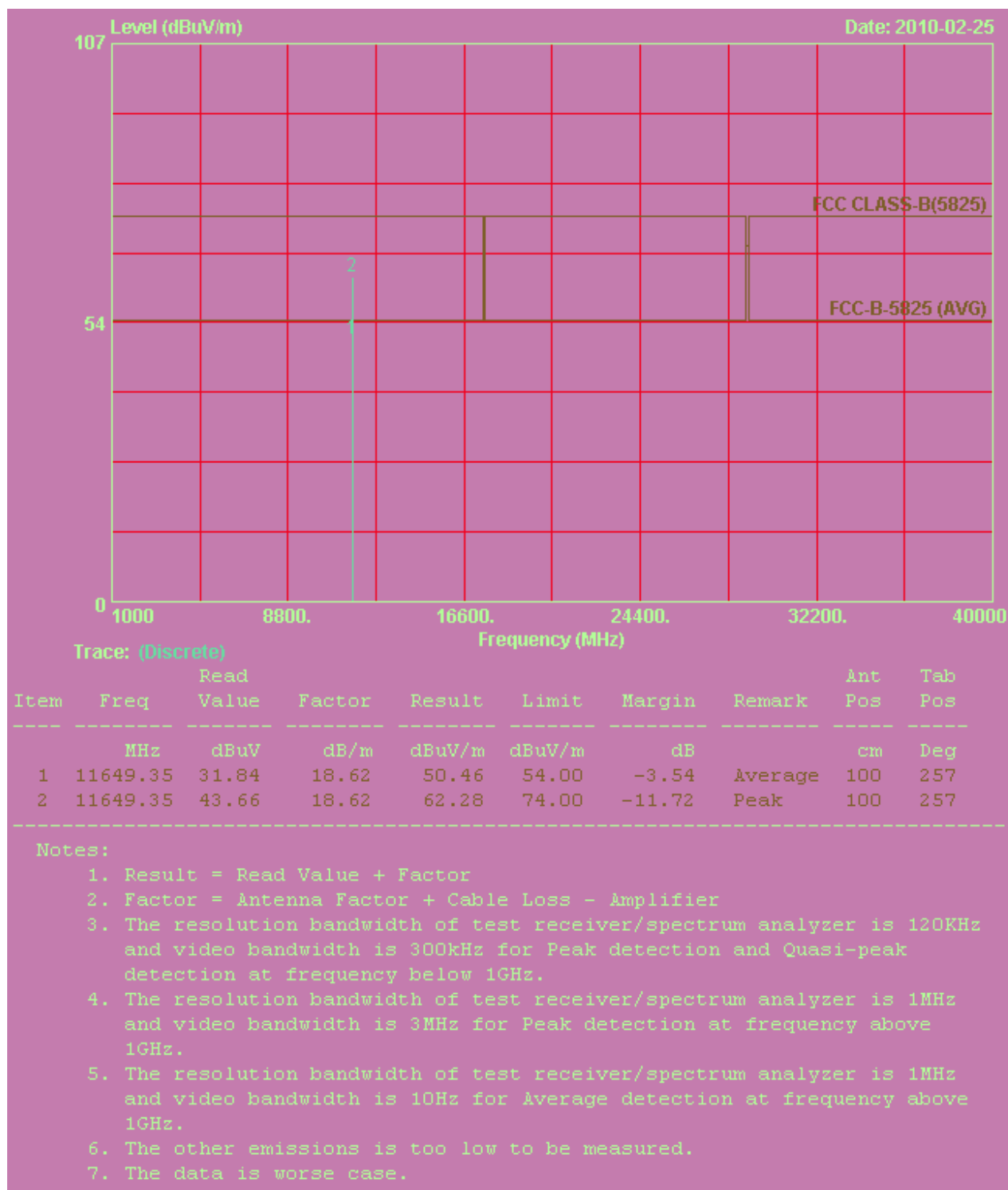


Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode	: 802.11a, CH157	Temperature	: 27 °C
Memo	:	Humidity	: 70 %



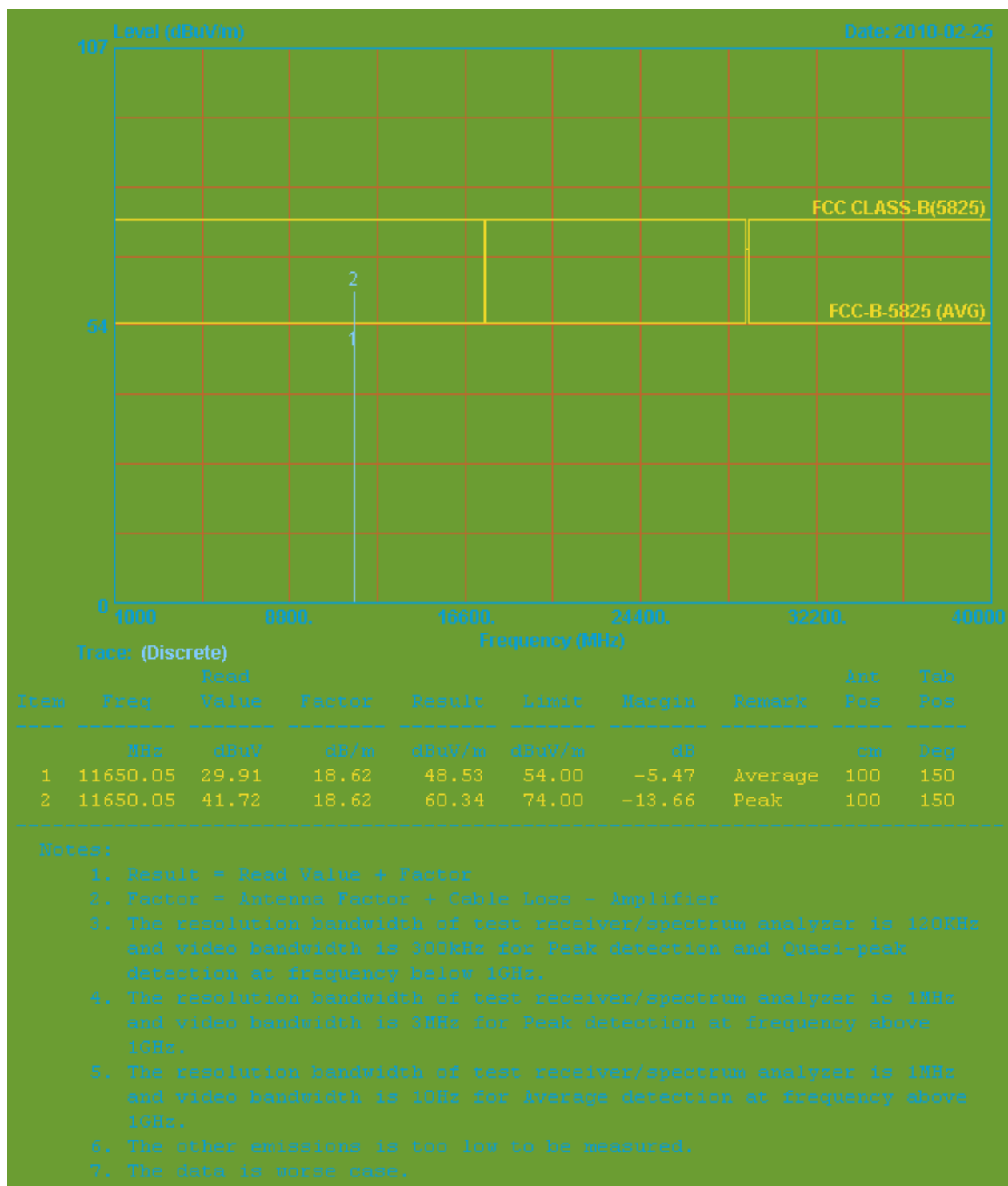


Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode	: 802.11a, CH165	Temperature	: 27 °C
Memo	:	Humidity	: 70 %



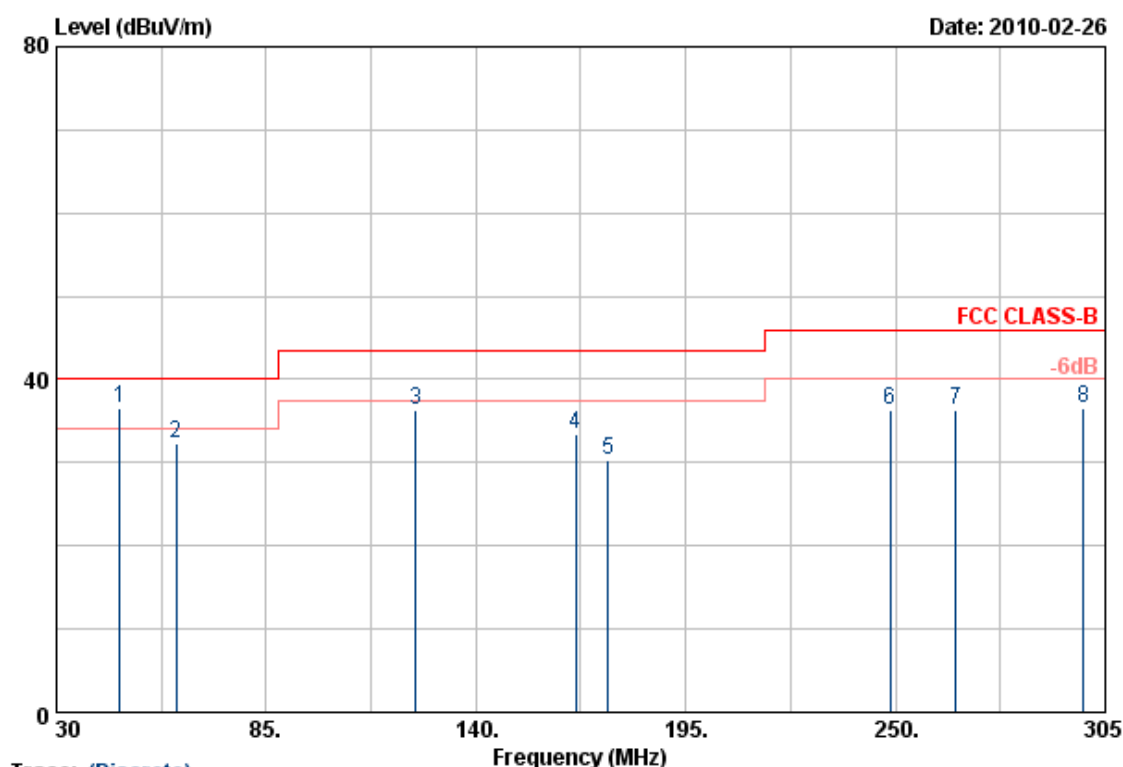


Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode	: 802.11a, CH165	Temperature	: 27 °C
Memo	:	Humidity	: 70 %





Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode	: 802.11an HT20, CH149	Temperature	: 20 °C
Memo	:	Humidity	: 65 %



Trace: (Discrete)

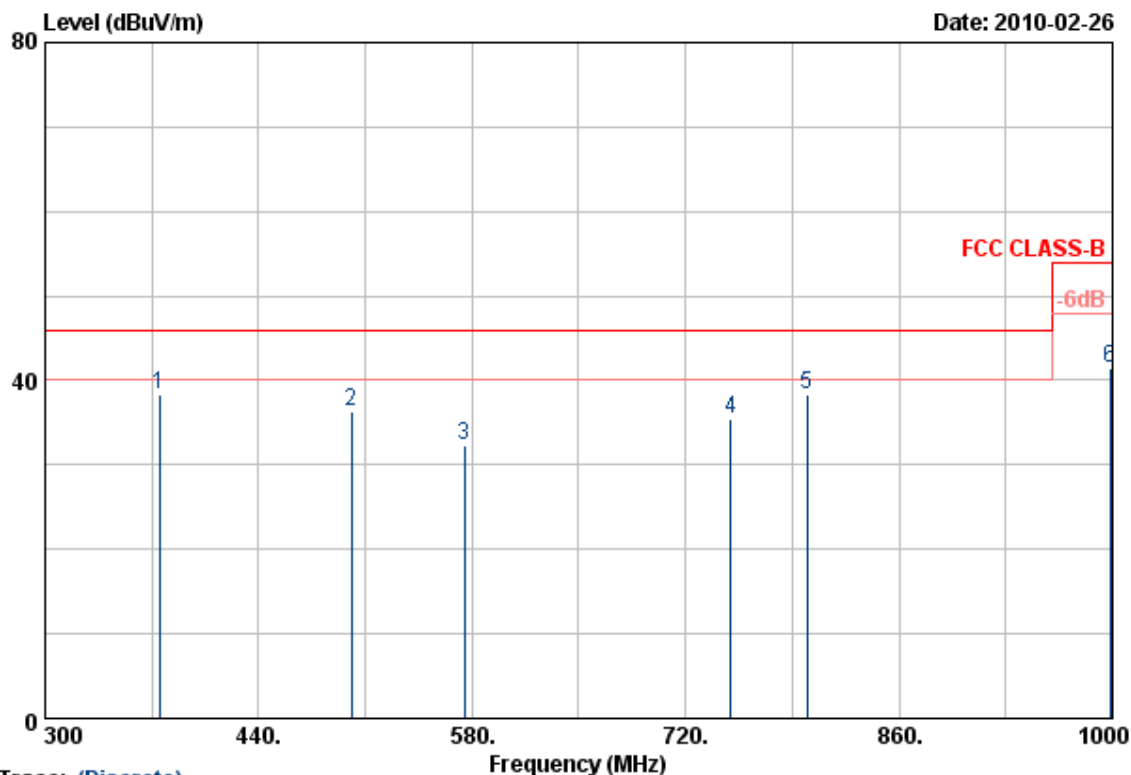
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	46.50	52.02	-15.38	36.64	40.00	-3.36	QP	100	46
2	61.35	54.50	-22.18	32.32	40.00	-7.68	QP	100	46
3	124.33	54.73	-18.36	36.37	43.50	-7.13	QP	100	88
4	166.13	51.85	-18.53	33.32	43.50	-10.18	Peak	100	88
5	174.65	49.65	-19.32	30.33	43.50	-13.17	QP	100	111
6	248.63	53.63	-17.30	36.33	46.00	-9.67	QP	100	111
7	265.95	53.25	-16.89	36.36	46.00	-9.64	QP	100	77
8	299.23	52.89	-16.38	36.51	46.00	-9.49	QP	100	77

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/an mode at Band1~4 channel are almost the same below 1GHz, so that the channel 36 or 38 (for HT40), channel 149 or 151 (for HT40) was chosen as representative in final test.
5. The data is worse case.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode	: 802.11an HT20, CH149	Temperature	: 20 °C
Memo	:	Humidity	: 65 %



Trace: (Discrete)

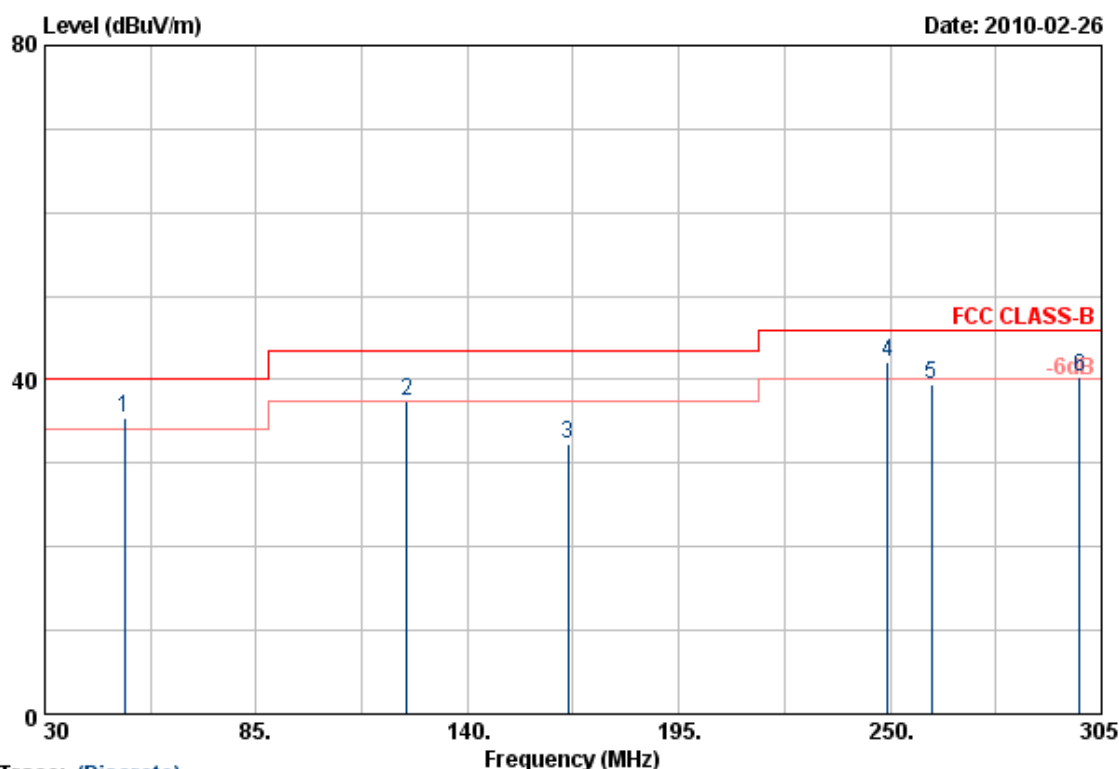
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	375.00	52.39	-14.06	38.33	46.00	-7.67	QP	100	98
2	500.90	47.67	-11.34	36.33	46.00	-9.67	QP	100	98
3	575.00	41.84	-9.51	32.33	46.00	-13.67	QP	100	98
4	749.40	41.66	-6.31	35.35	46.00	-10.65	QP	100	120
5	799.80	45.10	-6.77	38.33	46.00	-7.67	QP	100	103
6	998.60	44.66	-3.29	41.37	54.00	-12.63	QP	100	100

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/an mode at Band1~4 channel are almost the same below 1GHz, so that the channel 36 or 38 (for HT40), channel 149 or 151 (for HT40) was chosen as representative in final test.
5. The data is worse case.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode	: 802.11an HT20, CH149	Temperature	: 20 °C
Memo	:	Humidity	: 65 %



Trace: (Discrete)

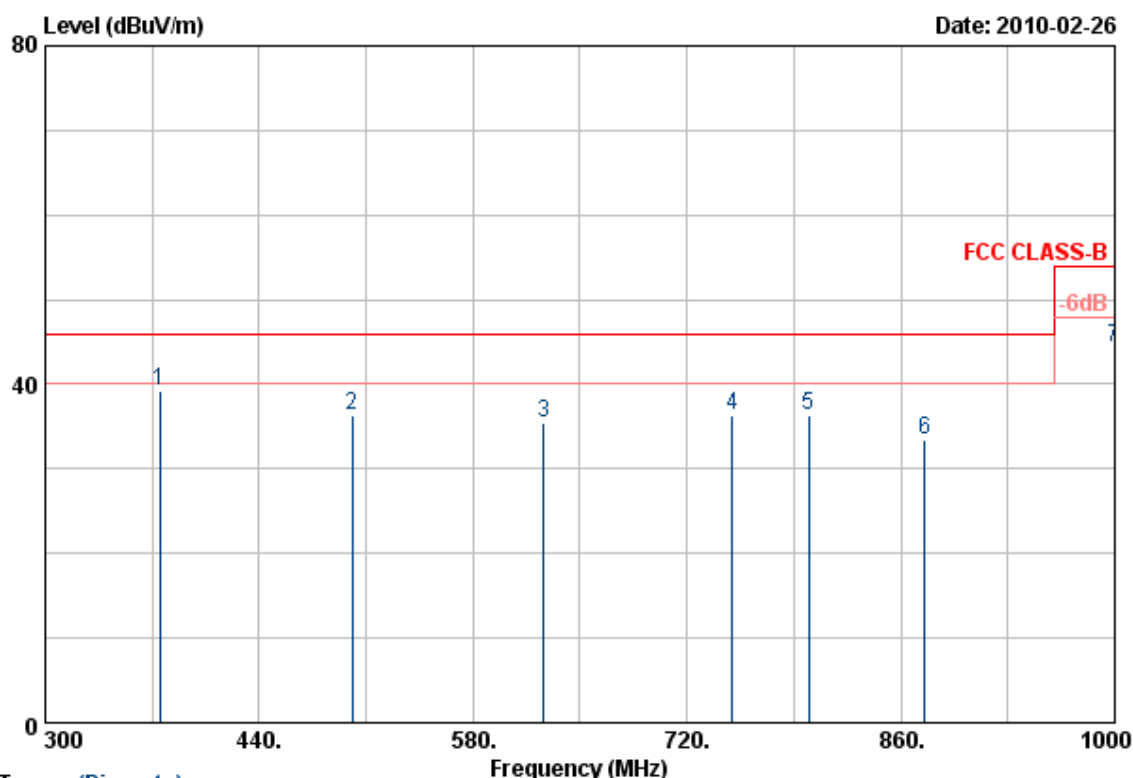
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	50.63	52.83	-17.46	35.37	40.00	-4.63	QP	100	77
2	124.33	55.69	-18.36	37.33	43.50	-6.17	Peak	100	98
3	166.13	50.86	-18.53	32.33	43.50	-11.17	Peak	100	98
4	249.45	59.27	-17.24	42.03	46.00	-3.97	QP	100	56
5	260.73	56.26	-16.91	39.35	46.00	-6.65	QP	100	56
6	299.23	56.60	-16.38	40.22	46.00	-5.78	QP	100	87

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/an mode at Band1~4 channel are almost the same below 1GHz, so that the channel 36 or 38 (for HT40), channel 149 or 151 (for HT40) was chosen as representative in final test.
5. The data is worse case.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode	: 802.11an HT20, CH149	Temperature	: 20 °C
Memo	:	Humidity	: 65 %



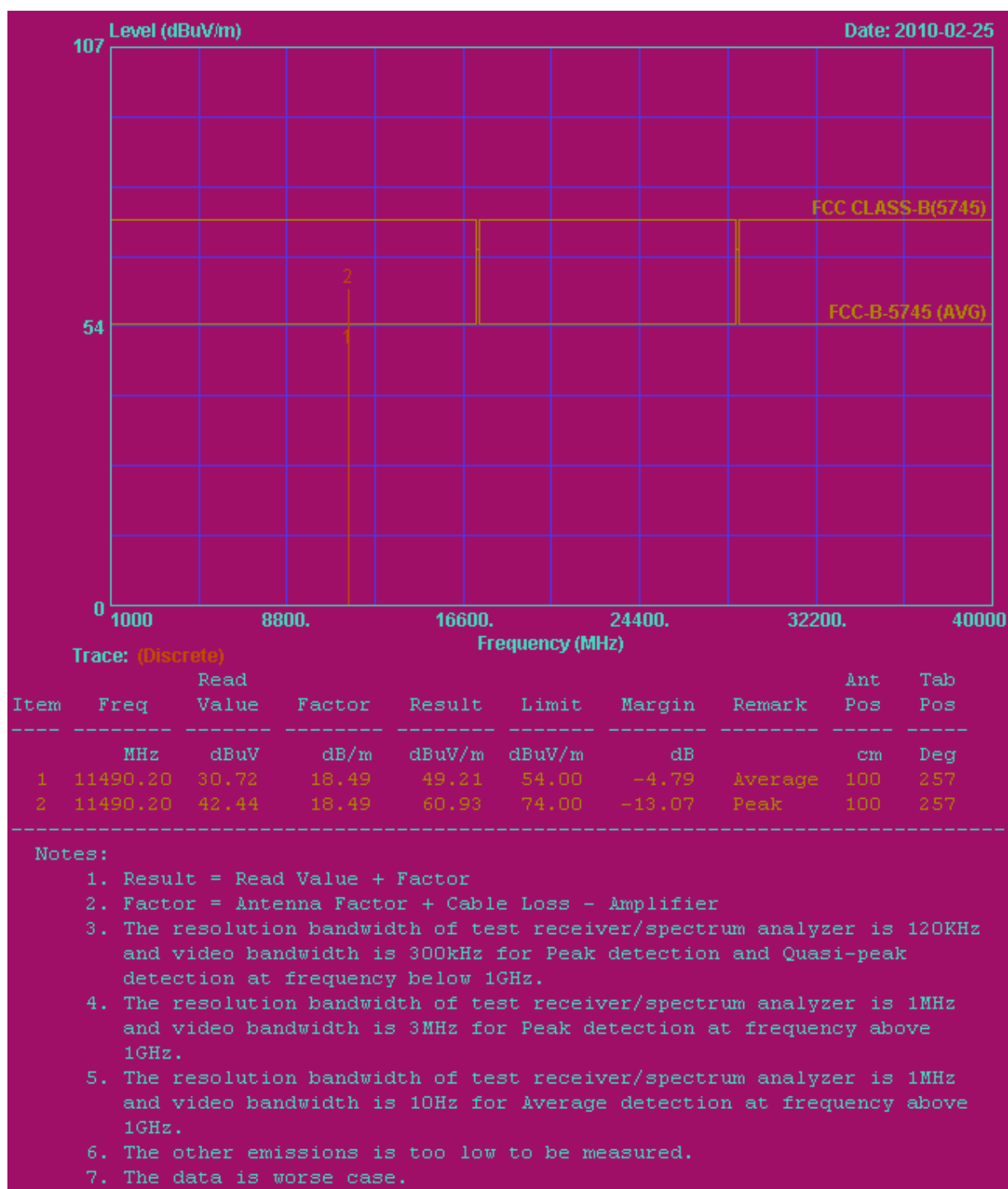
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	375.00	53.38	-14.06	39.32	46.00	-6.68	QP	100	99
2	500.90	47.67	-11.34	36.33	46.00	-9.67	QP	100	122
3	626.20	44.33	-9.00	35.33	46.00	-10.67	QP	100	177
4	749.40	42.54	-6.31	36.23	46.00	-9.77	QP	100	147
5	799.80	43.02	-6.77	36.25	46.00	-9.75	QP	100	147
6	875.40	39.37	-6.05	33.32	46.00	-12.68	QP	100	147
7	999.90	47.61	-3.28	44.33	54.00	-9.67	QP	100	147

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/an mode at Band1~4 channel are almost the same below 1GHz, so that the channel 36 or 38 (for HT40), channel 149 or 151 (for HT40) was chosen as representative in final test.
5. The data is worse case.

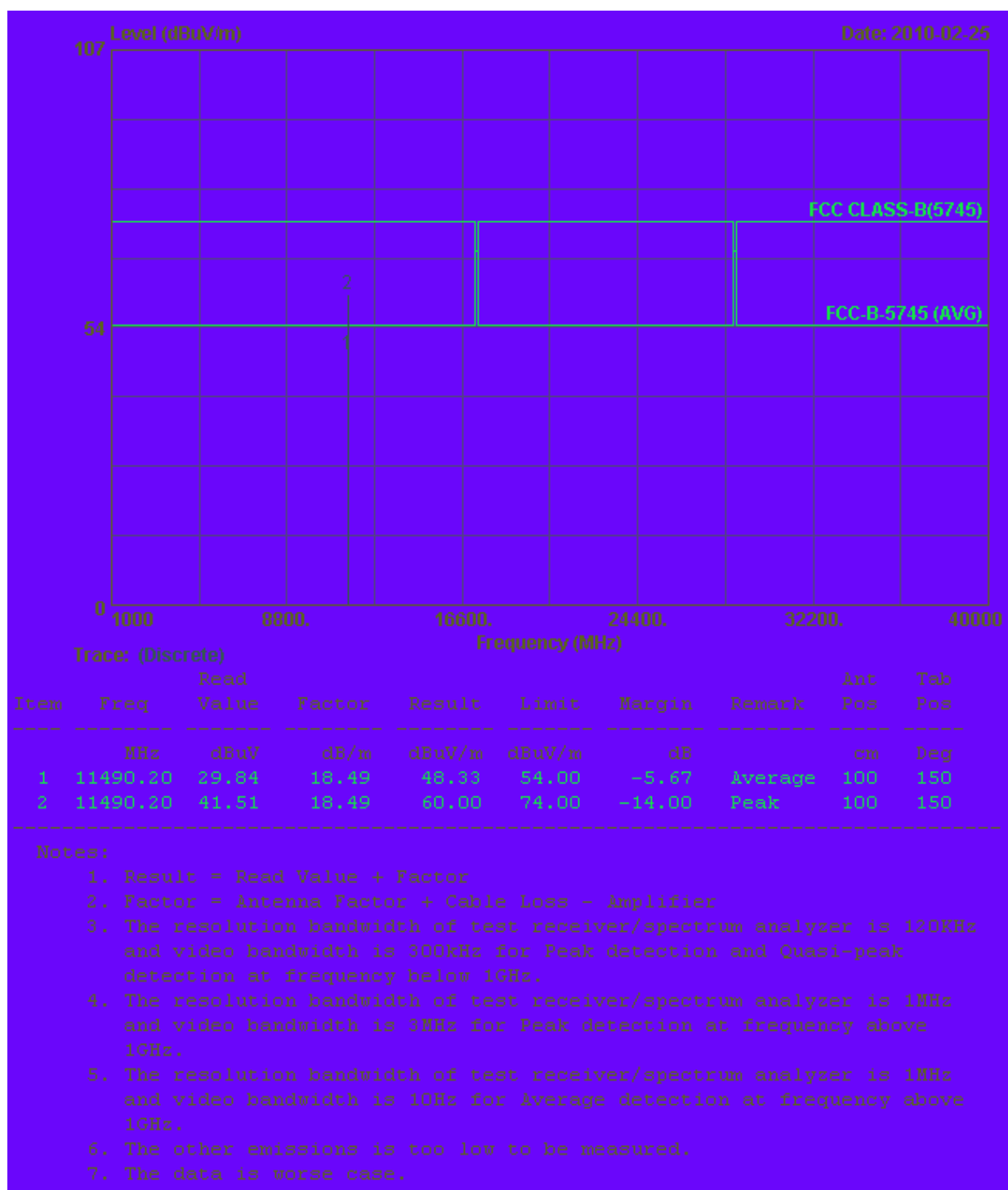


Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode	: 802.11an HT20, CH149	Temperature	: 27 °C
Memo	:	Humidity	: 70 %



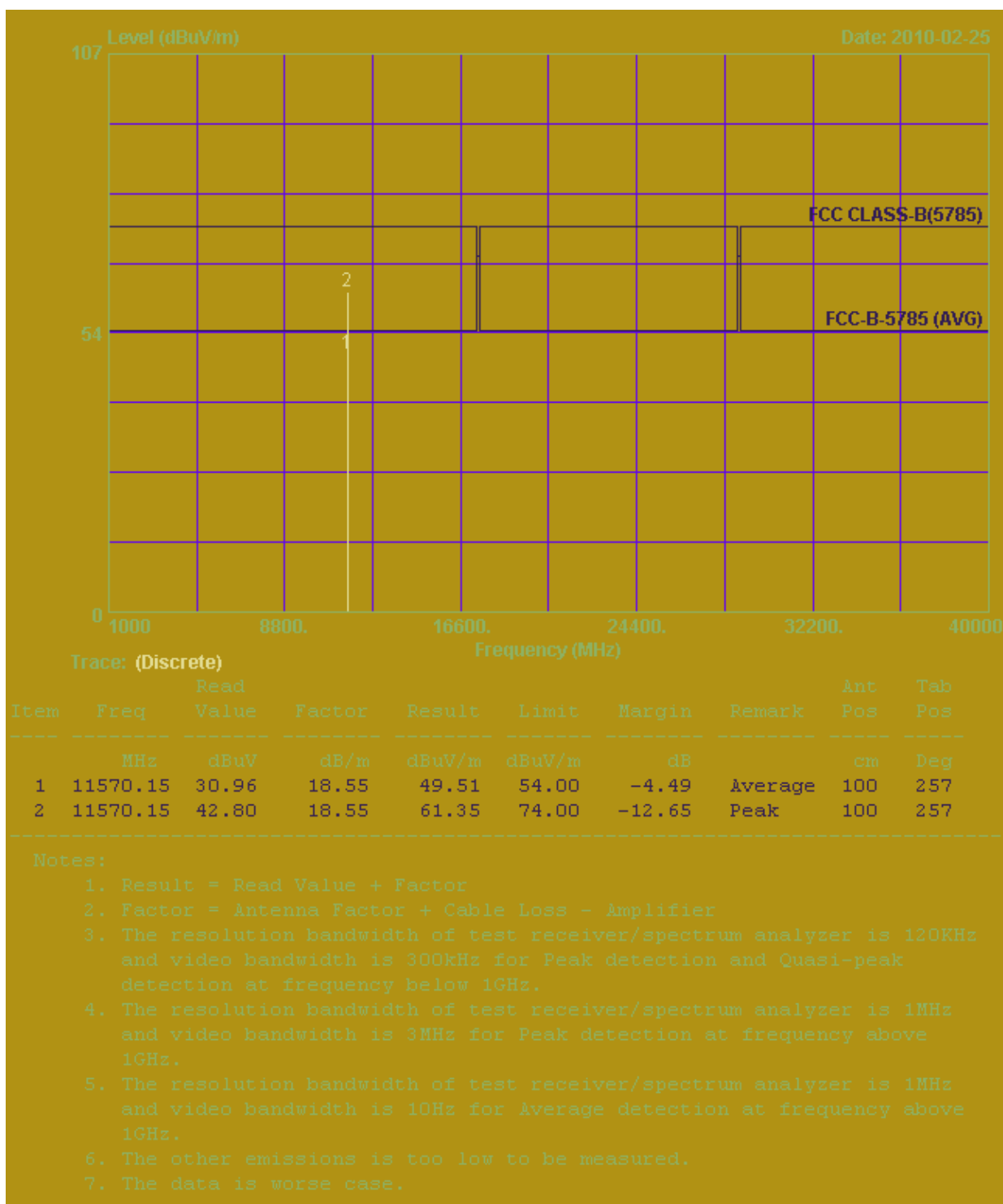


Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode	: 802.11an HT20, CH149	Temperature	: 27 °C
Memo	:	Humidity	: 70 %



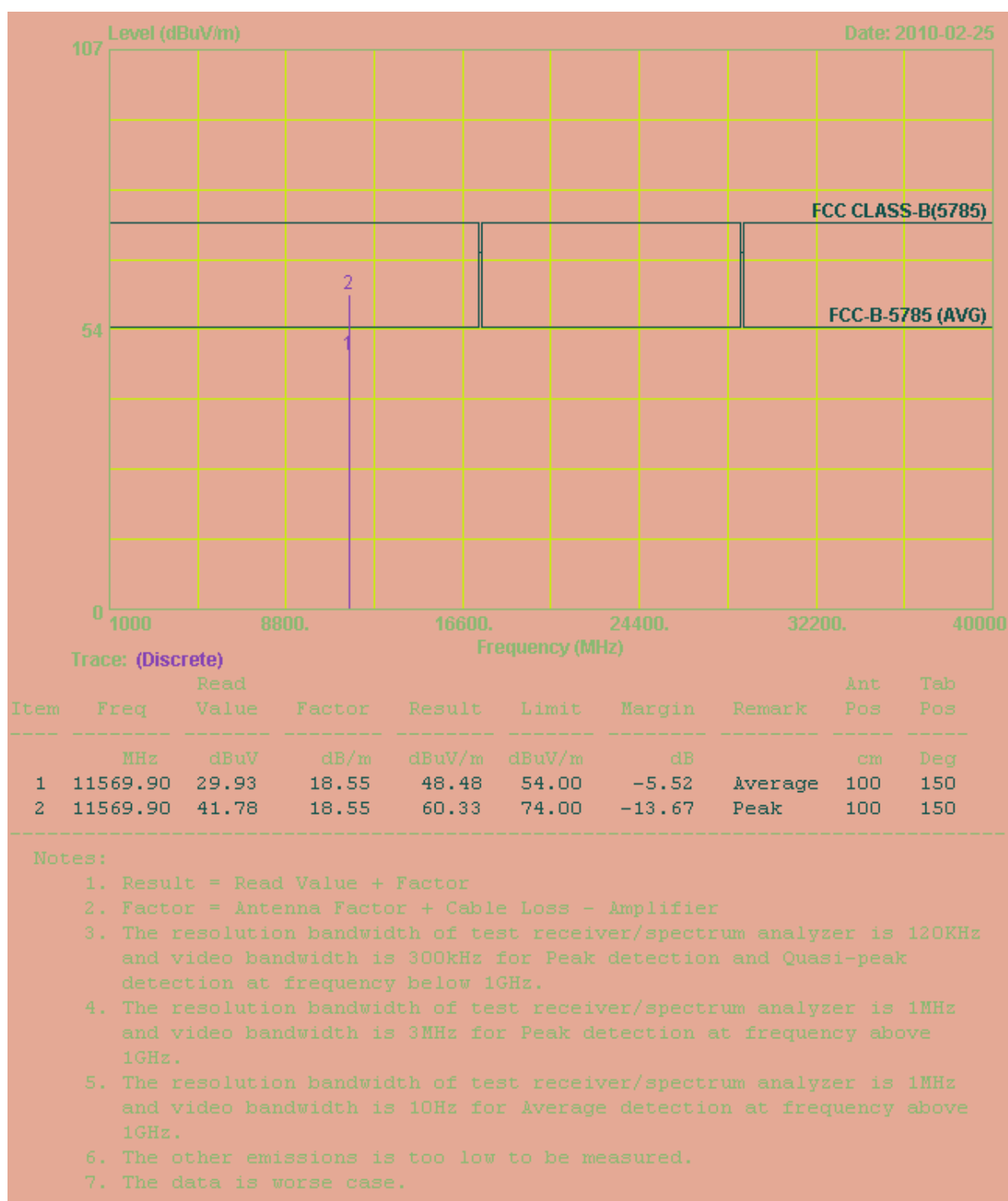


Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode	: 802.11an HT20, CH157	Temperature	: 27 °C
Memo	:	Humidity	: 70 %



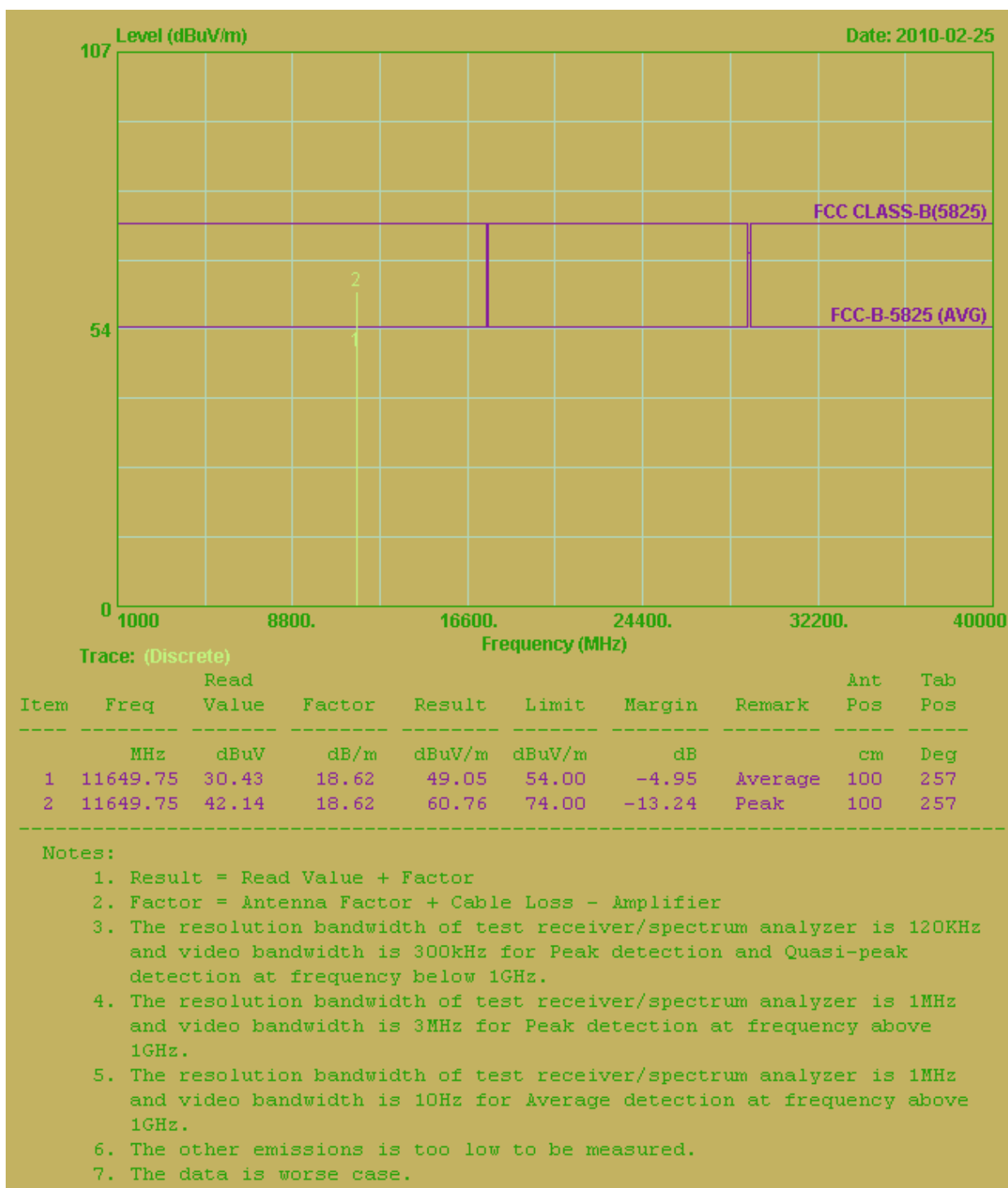


Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode	: 802.11an HT20, CH157	Temperature	: 27 °C
Memo	:	Humidity	: 70 %



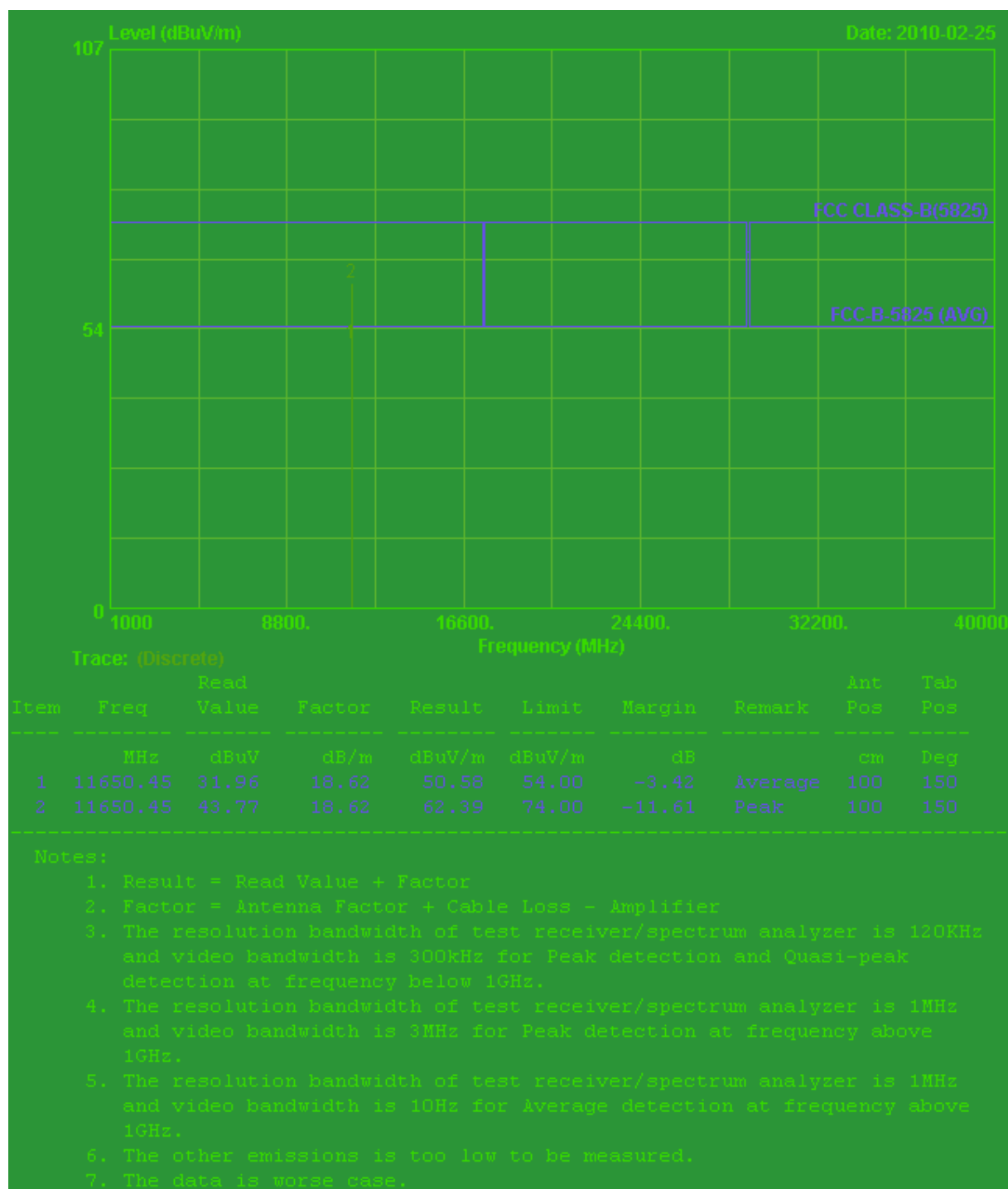


Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode	: 802.11an HT20, CH165	Temperature	: 27 °C
Memo	:	Humidity	: 70 %



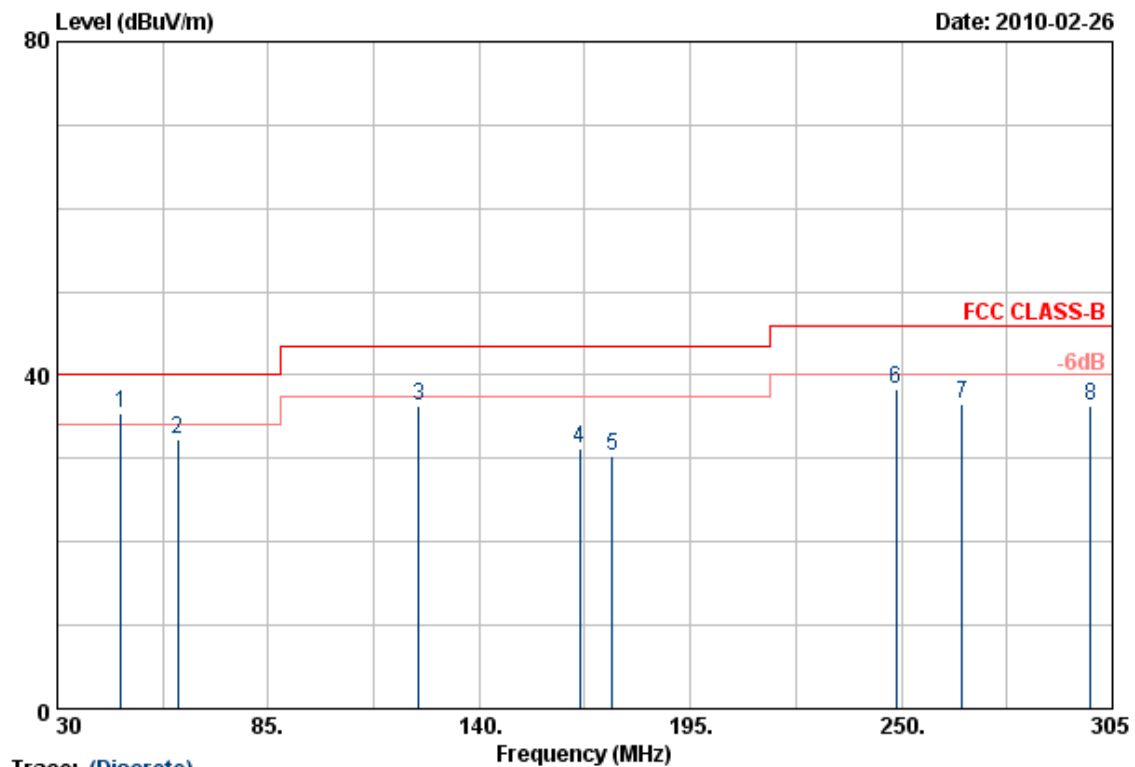


Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode	: 802.11an HT20, CH165	Temperature	: 27 °C
Memo	:	Humidity	: 70 %





Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode	: 802.11an HT40, CH159	Temperature	: 20 °C
Memo	:	Humidity	: 65 %



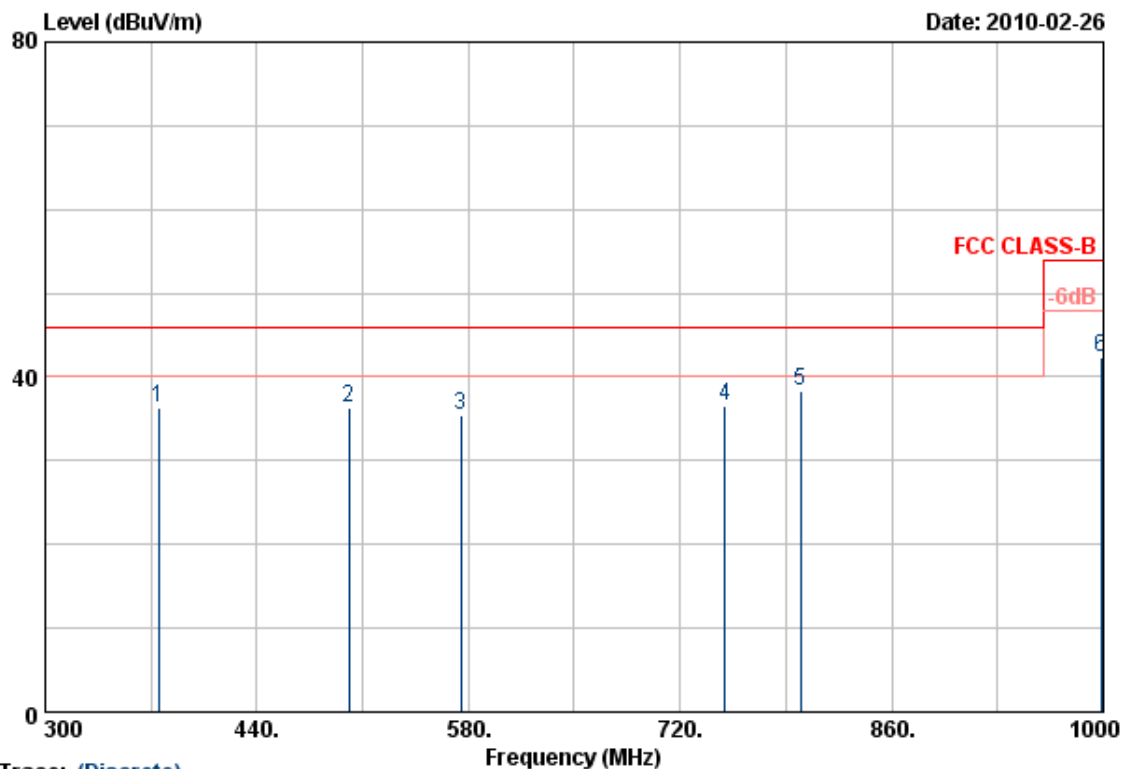
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	46.50	50.70	-15.38	35.32	40.00	-4.68	QP	100	46
2	61.35	54.51	-22.18	32.33	40.00	-7.67	QP	100	46
3	124.33	54.68	-18.36	36.32	43.50	-7.18	QP	100	88
4	166.13	49.77	-18.53	31.24	43.50	-12.26	Peak	100	88
5	174.65	49.64	-19.32	30.32	43.50	-13.18	QP	100	111
6	248.63	55.62	-17.30	38.32	46.00	-7.68	QP	100	111
7	265.95	53.52	-16.89	36.63	46.00	-9.37	QP	100	77
8	299.23	52.69	-16.38	36.31	46.00	-9.69	QP	100	77

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/an mode at Band1~4 channel are almost the same below 1GHz, so that the channel 36 or 38 (for HT40), channel 149 or 151 (for HT40) was chosen as representative in final test.
5. The data is worse case.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode	: 802.11an HT40, CH159	Temperature	: 20 °C
Memo	:	Humidity	: 65 %



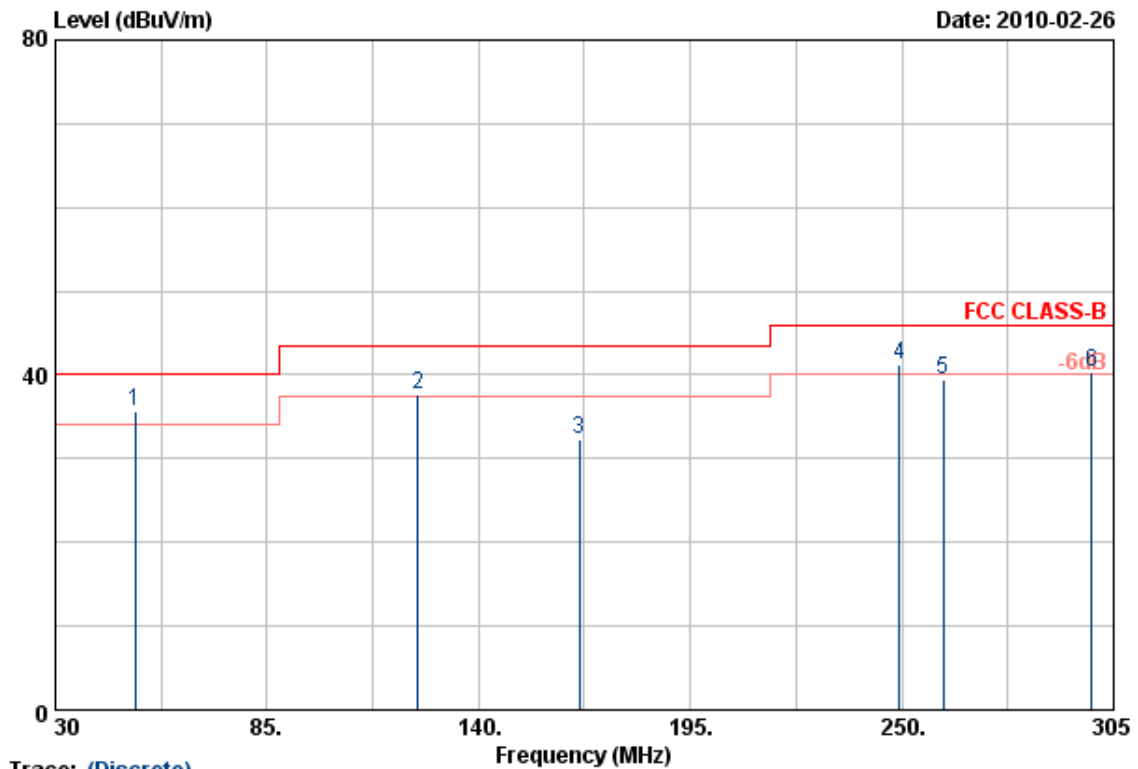
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	375.00	50.39	-14.06	36.33	46.00	-9.67	QP	100	98
2	500.90	47.66	-11.34	36.32	46.00	-9.68	QP	100	98
3	575.00	44.87	-9.51	35.36	46.00	-10.64	QP	100	98
4	749.40	42.95	-6.31	36.64	46.00	-9.36	QP	100	120
5	799.80	45.12	-6.77	38.35	46.00	-7.65	QP	100	103
6	998.60	45.61	-3.29	42.32	54.00	-11.68	QP	100	100

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/an mode at Band1~4 channel are almost the same below 1GHz, so that the channel 36 or 38 (for HT40), channel 149 or 151 (for HT40) was chosen as representative in final test.
5. The data is worse case.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode	: 802.11an HT40, CH159	Temperature	: 20 °C
Memo	:	Humidity	: 65 %



Trace: (Discrete)

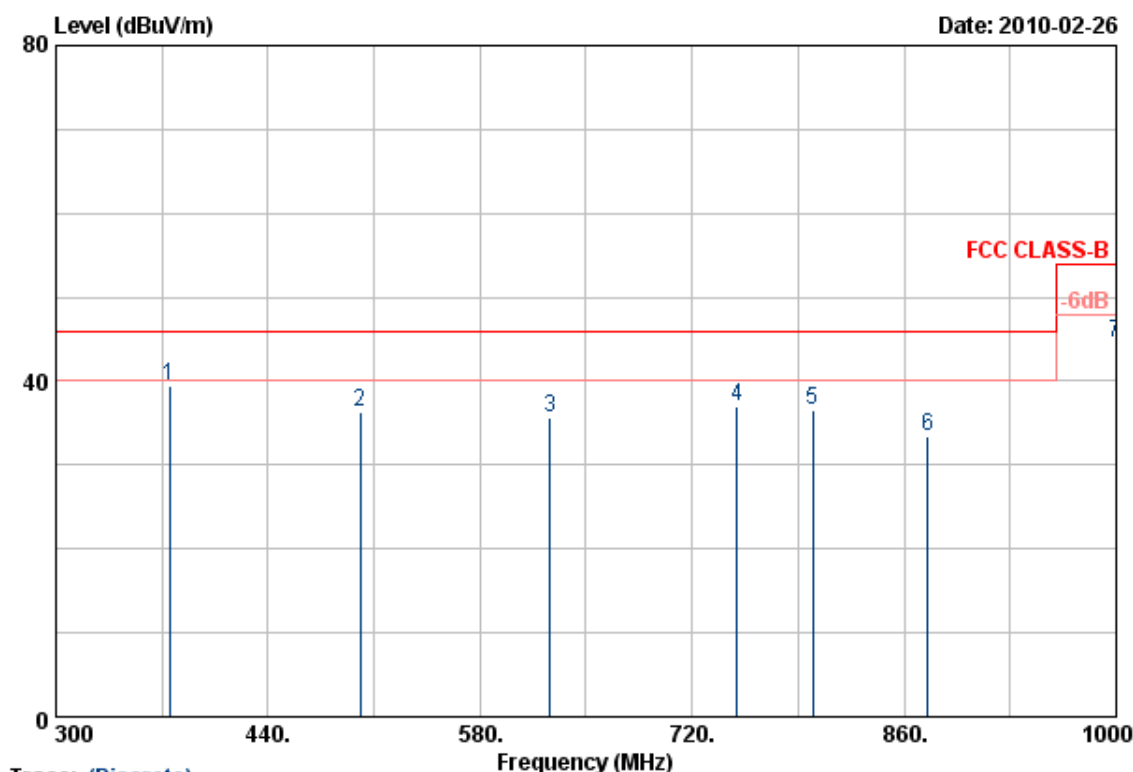
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	50.63	53.11	-17.46	35.65	40.00	-4.35	QP	100	77
2	124.33	37.63	0.00	37.63	43.50	-5.87	QP	100	98
3	166.13	50.83	-18.53	32.30	43.50	-11.20	Peak	100	98
4	249.45	58.47	-17.24	41.23	46.00	-4.77	QP	100	56
5	260.73	56.27	-16.91	39.36	46.00	-6.64	QP	100	56
6	299.23	56.73	-16.38	40.35	46.00	-5.65	QP	100	87

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/an mode at Band1~4 channel are almost the same below 1GHz, so that the channel 36 or 38(for HT40), channel 149 or 151(for HT40) was chosen as representative in final test.
5. The data is worse case.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode	: 802.11an HT40, CH159	Temperature	: 20 °C
Memo	:	Humidity	: 65 %

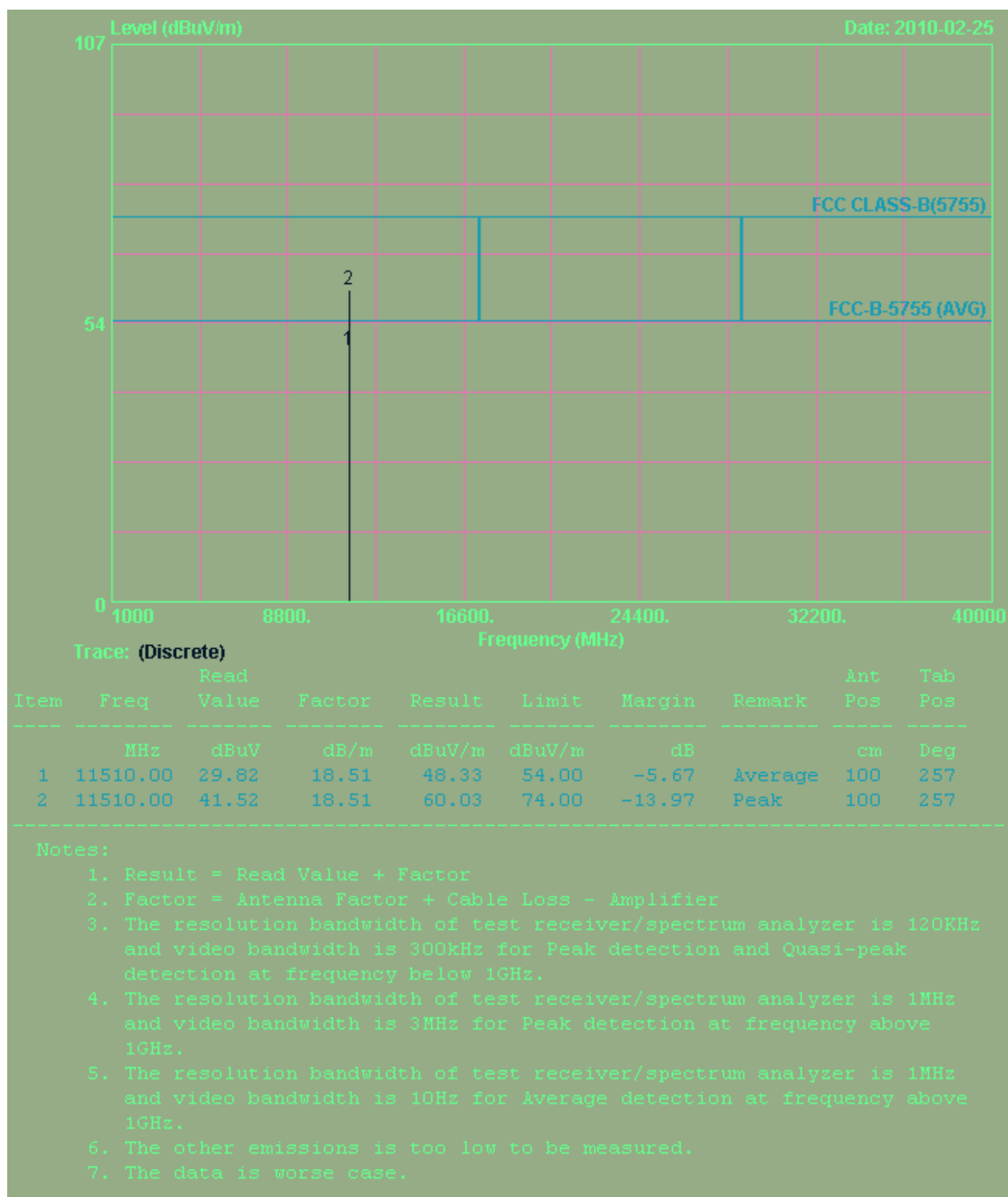


Notes:

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. According to technical experiences, all spurious emission of 802.11a/an mode at Band1~4 channel are almost the same below 1GHz, so that the channel 36 or 38 (for HT40), channel 149 or 151 (for HT40) was chosen as representative in final test.
5. The data is worse case.

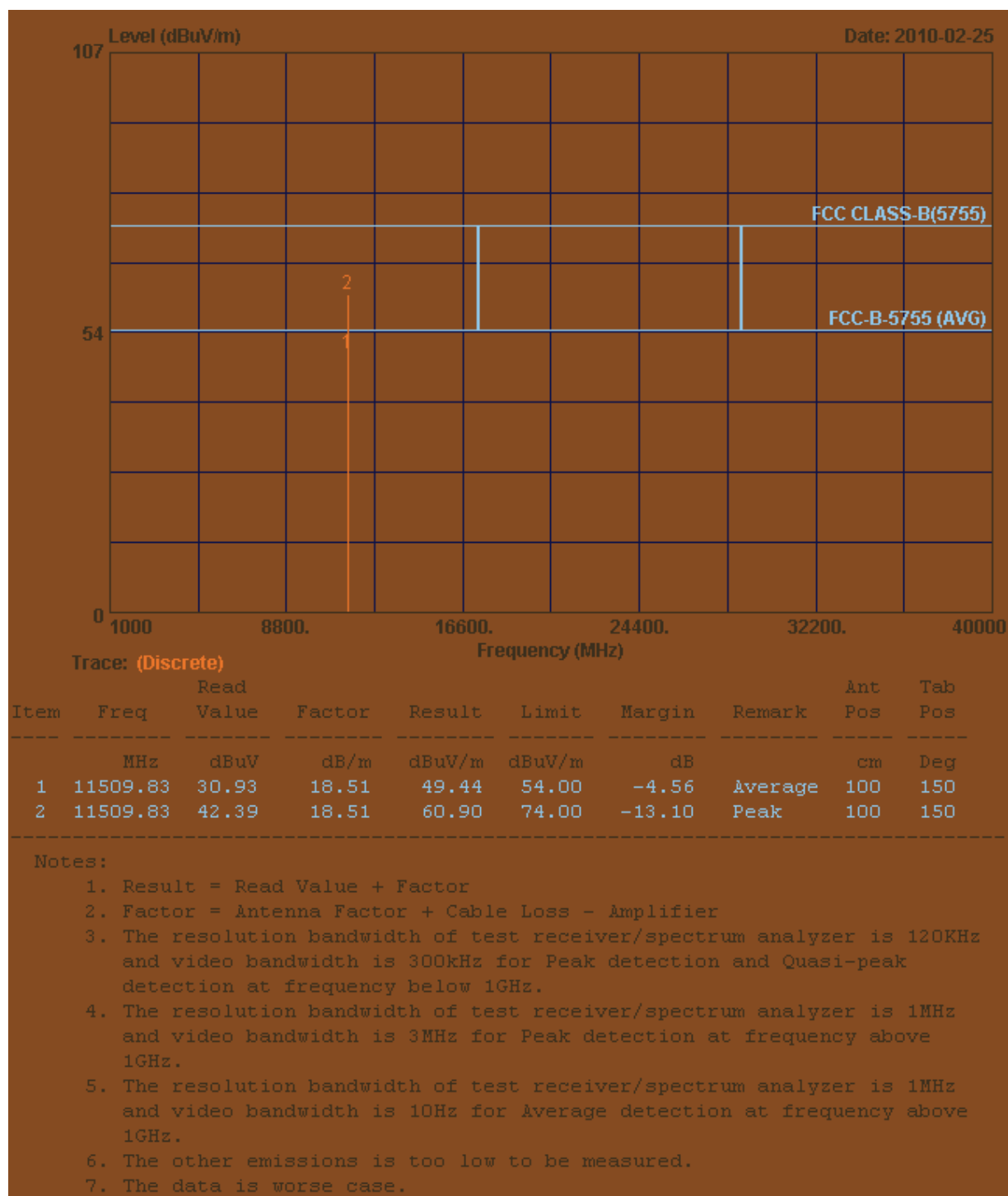


Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode	: 802.11an HT40, CH151	Temperature	: 27 °C
Memo	:	Humidity	: 70 %



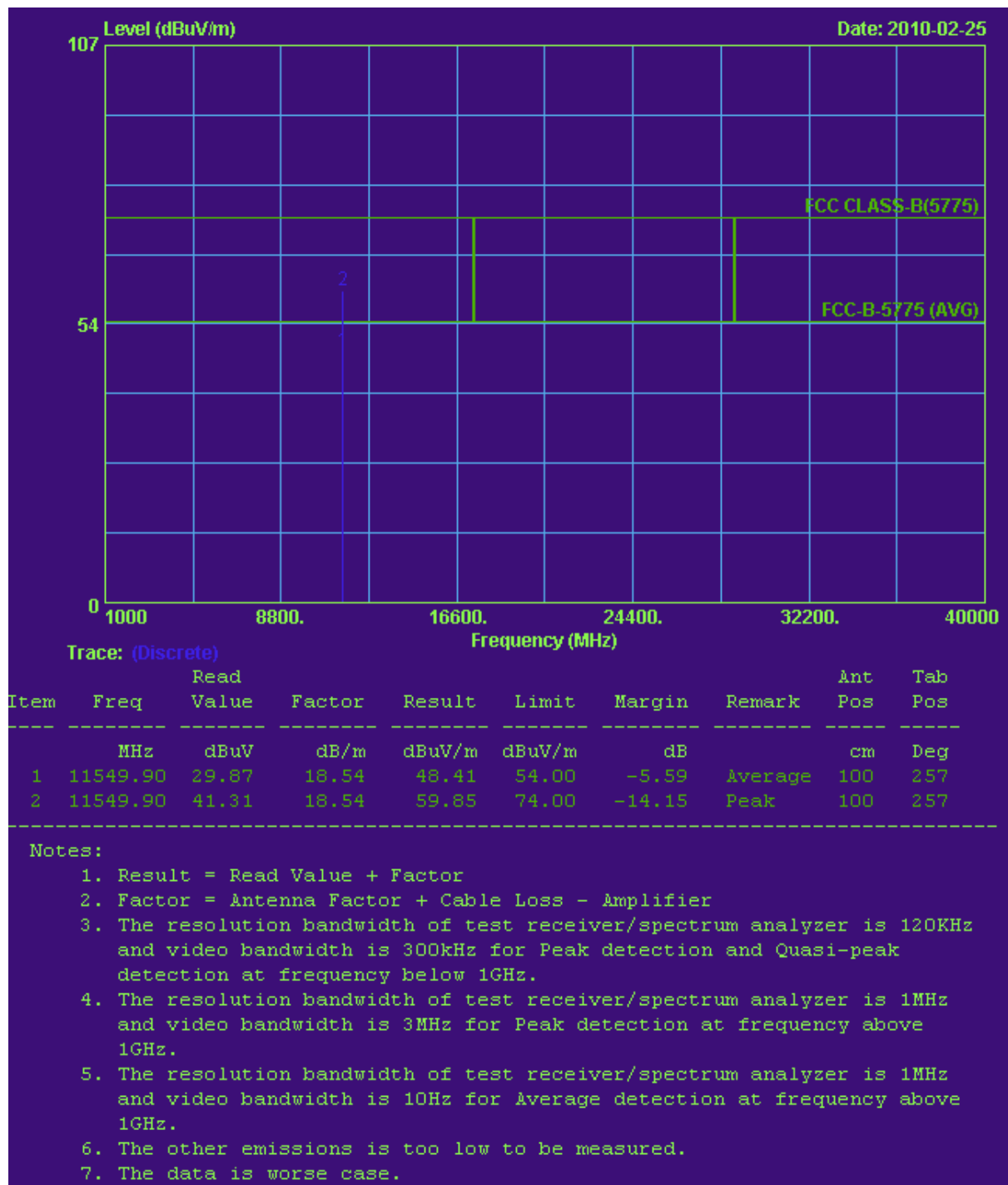


Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode	: 802.11an HT40, CH151	Temperature	: 27 °C
Memo	:	Humidity	: 70 %



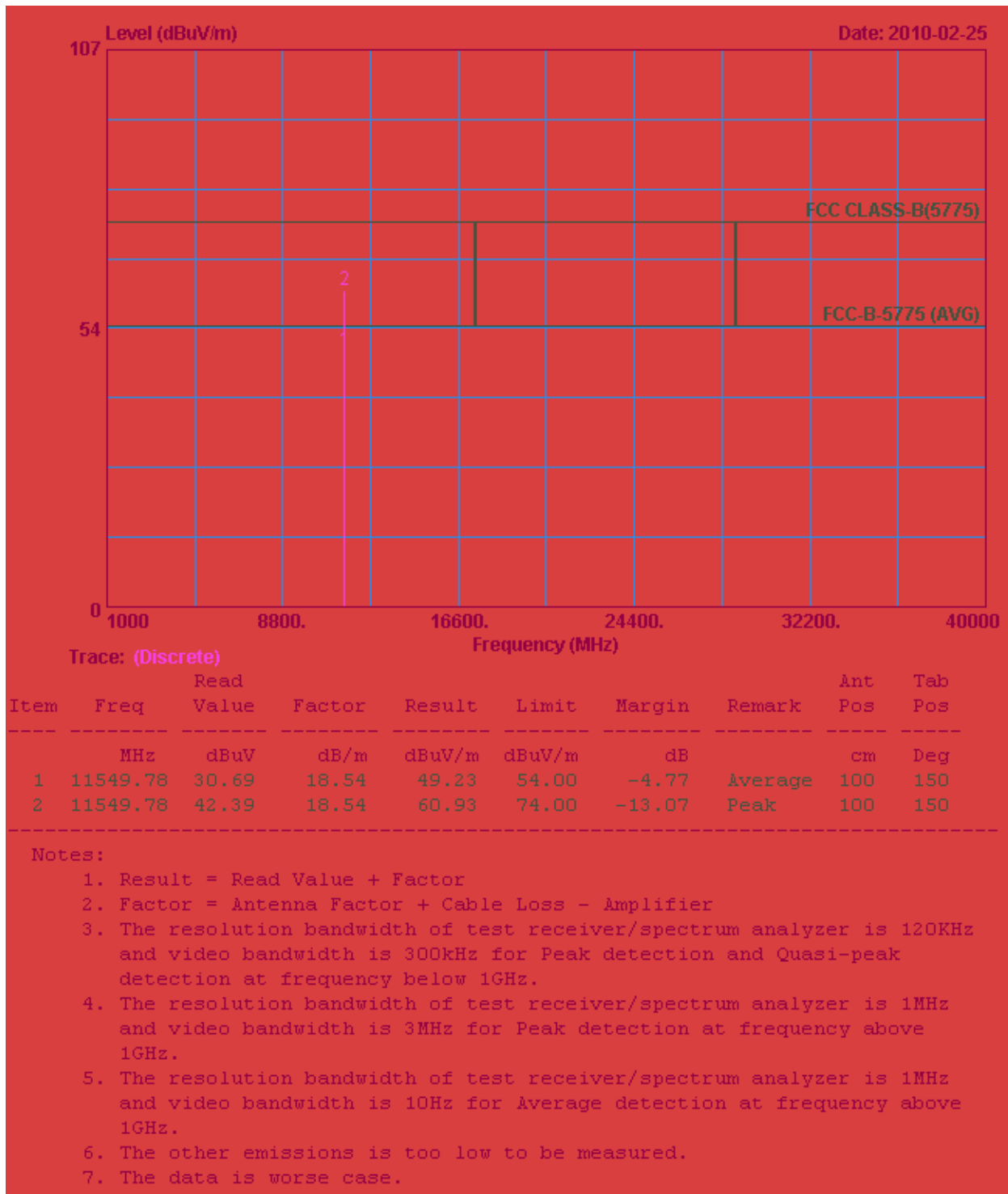


Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode	: 802.11an HT40, CH155	Temperature	: 27 °C
Memo	:	Humidity	: 70 %



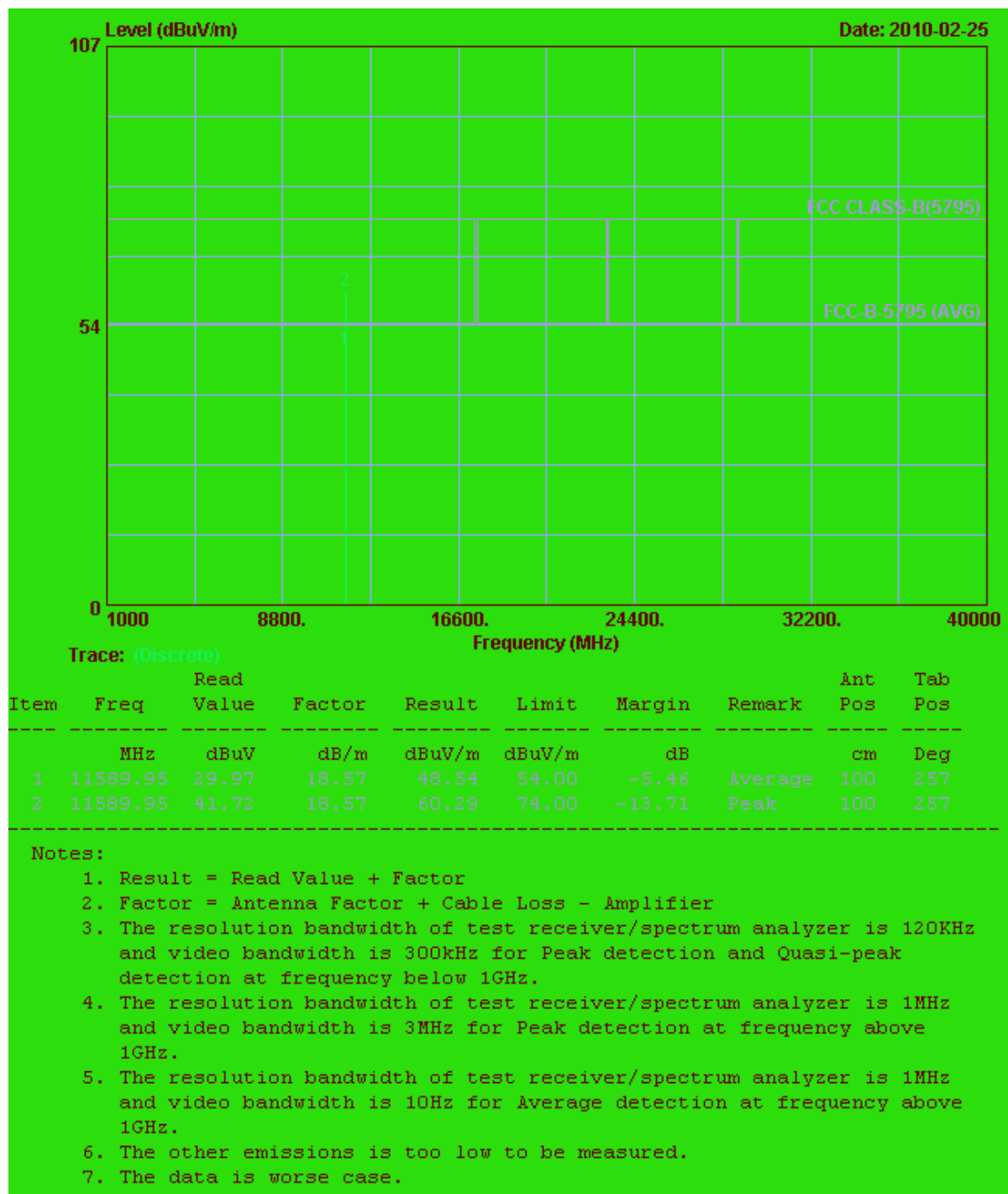


Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode	: 802.11an HT40, CH155	Temperature	: 27 °C
Memo	:	Humidity	: 70 %



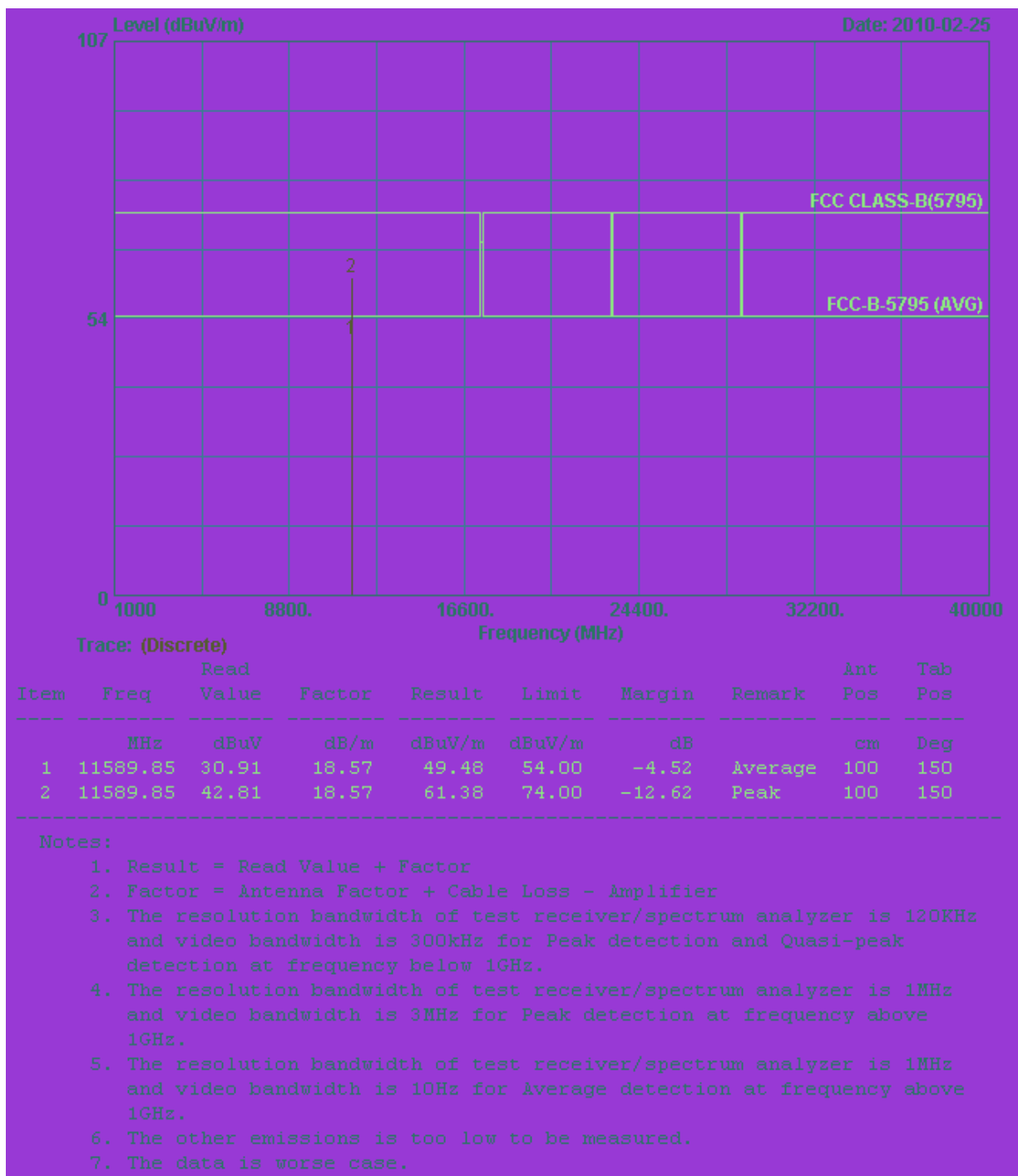


Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode	: 802.11an HT40, CH159	Temperature	: 27 °C
Memo	:	Humidity	: 70 %





Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode	: 802.11an HT40, CH159	Temperature	: 27 °C
Memo	:	Humidity	: 70 %



Test engineer:

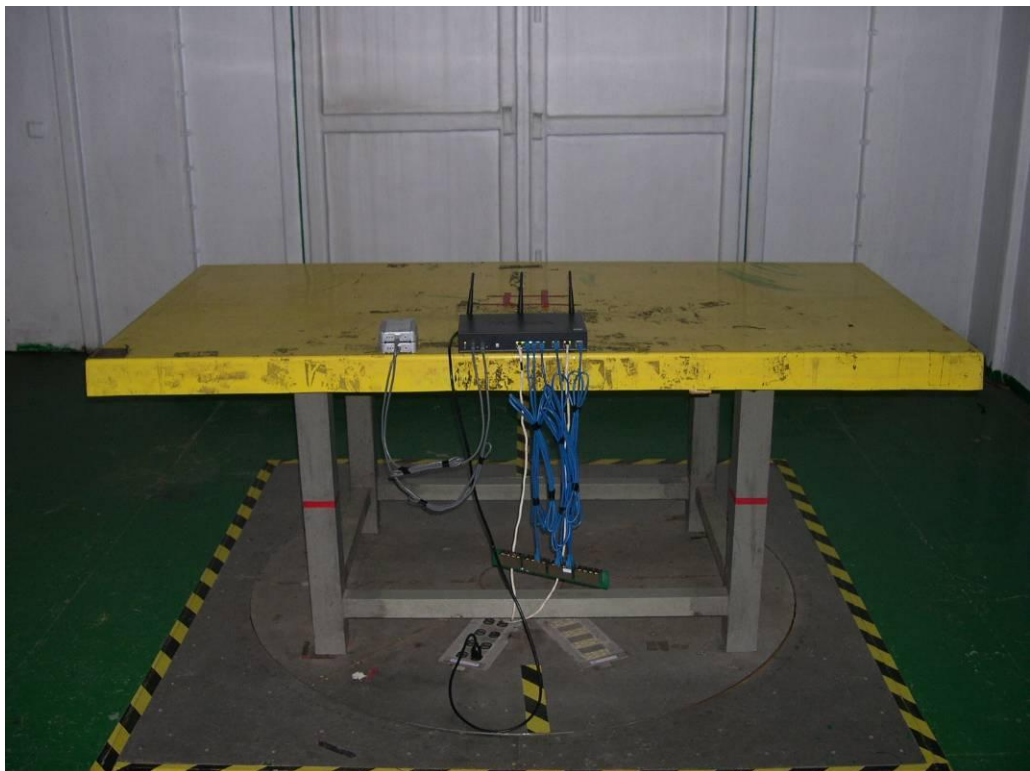


5.6 Test Photographs

Front View



Rear View





6. 6dB Bandwidth Measurement Data

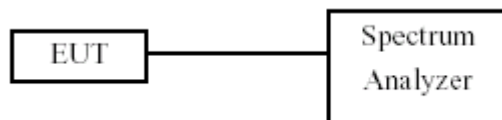
6.1 Test Limit

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

6.2 Test Procedures

- The transmitter output was connected to the spectrum analyzer.
- Set RBW of spectrum analyzer to 100 KHz and VBW to 100 KHz.
- The 6 dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6 dB.

6.3 Test Setup Layout



6.4 Measurement Equipment

Instrument/Ancillary	Model No.	Manufacturer	Serial No.	Calibration Date	Valid Date
Spectrum Analyzer	FSP40	R&S	10047	2009/03/26	2010/03/25



6.5 Test Result and Data

Test Date: Feb. 11, 2010

Temperature: 22°C

Atmospheric pressure: 1022 hPa

Humidity: 61%

Modulation Standard	Channel	Frequency (MHz)	6dB Bandwidth (MHz)		
			Ant 1	Ant 2	Ant 3
802.11b (11Mbps)	01	2412	11.2	12.0	11.0
	06	2437	10.6	11.6	10.9
	11	2462	11.5	11.8	10.4
802.11g (54Mbps)	01	2412	16.4	16.5	16.5
	06	2437	16.6	16.6	16.5
	11	2462	16.6	16.6	16.5
802.11n HT20 (130Mbps)	01	2412	17.8	17.5	17.8
	06	2437	17.8	17.7	17.7
	11	2462	17.8	17.8	17.7
802.11n HT40 (27Mbps)	03	2422	36.2	36.6	36.6
	06	2437	36.2	36.8	36.6
	09	2452	36.4	36.6	36.6

Test Date: Feb. 24, 2010

Temperature: 23°C

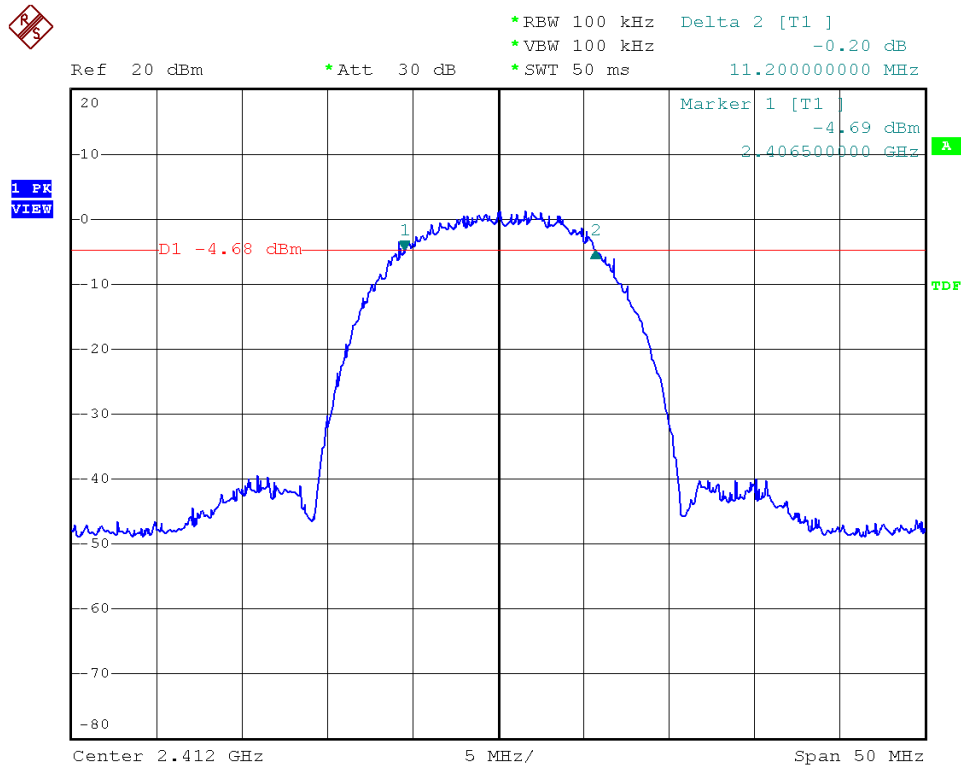
Atmospheric pressure: 1020 hPa

Humidity: 66%

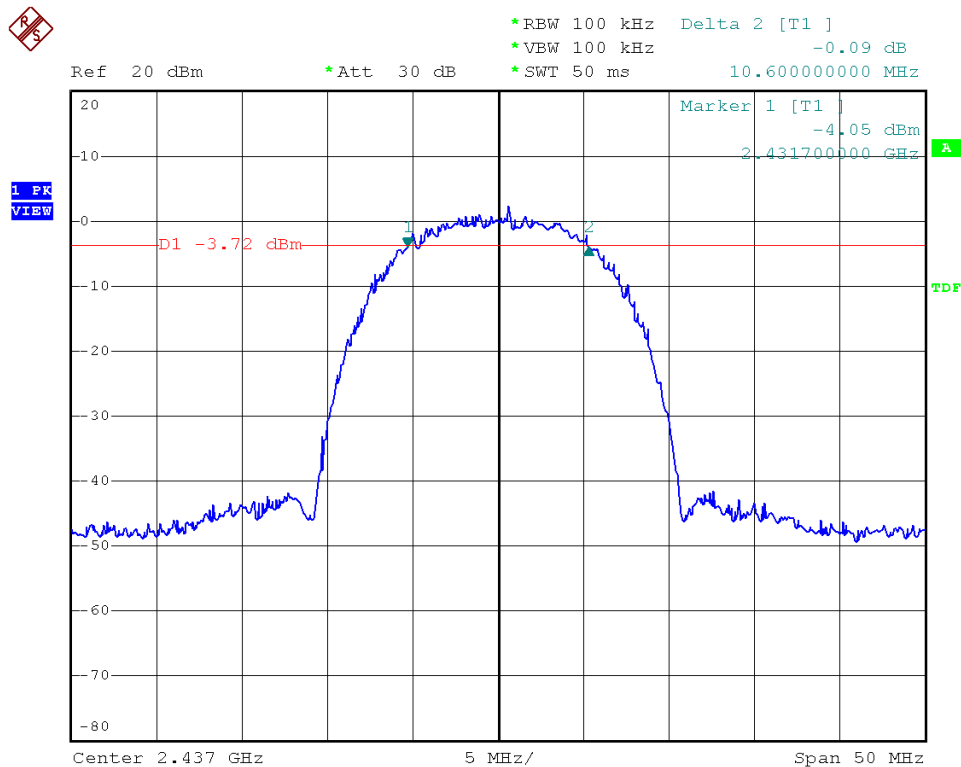
Modulation Standard	Channel	Frequency (MHz)	6dB Bandwidth (MHz)		
			Ant 1	Ant 2	Ant 3
802.11a (54Mbps)	149	5745	16.5	16.5	16.5
	157	5785	16.6	16.6	16.6
	165	5825	16.6	16.6	16.6
802.11an HT20 (130Mbps)	149	5745	17.8	17.8	17.9
	157	5785	17.8	17.8	17.8
	165	5825	17.8	17.8	17.9
802.11an HT40 (27Mbps)	151	5755	36.6	36.6	36.6
	155	5775	36.6	36.4	36.4
	159	5795	36.6	36.6	36.8



Modulation Standard: 802.11b (11Mbps), Ant 1
Channel: 01

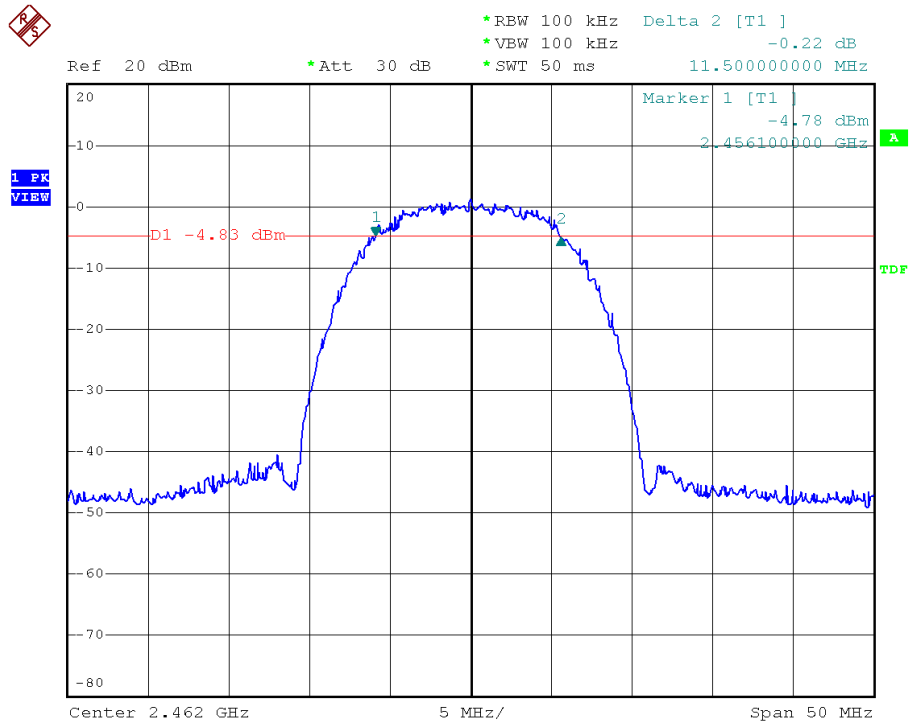


Modulation Standard: 802.11b (11Mbps), Ant 1
Channel: 06

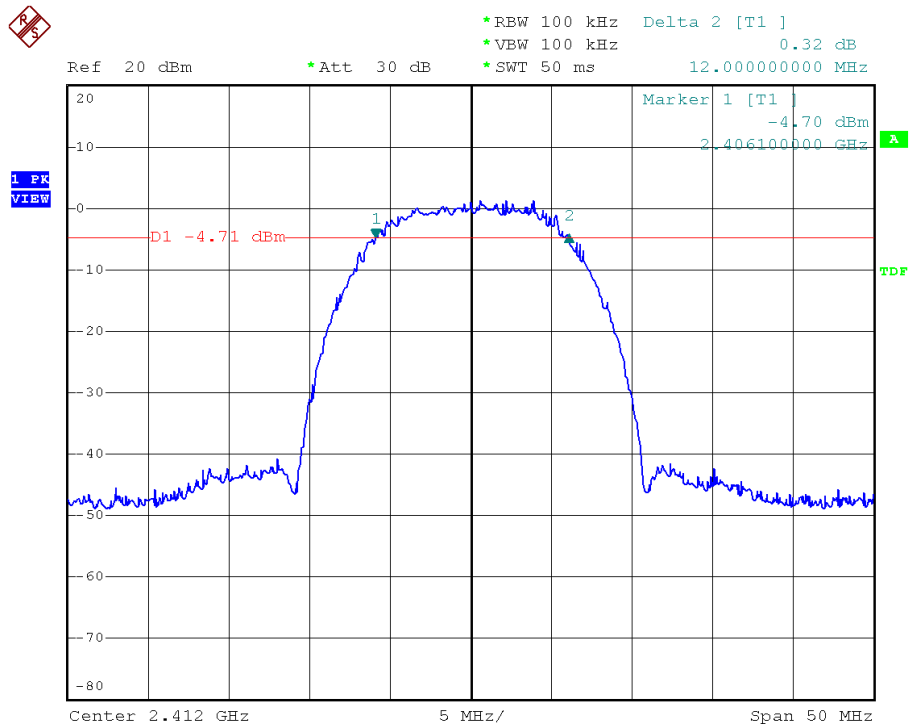




Modulation Standard: 802.11b (11Mbps), Ant 1
Channel: 11

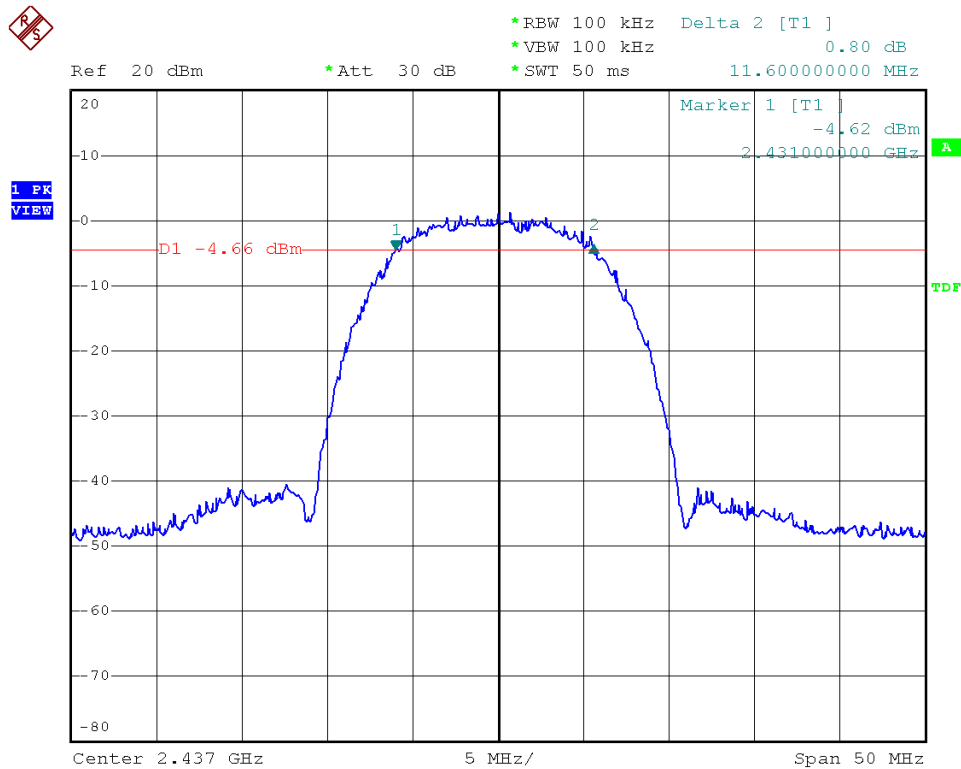


Modulation Standard: 802.11b (11Mbps), Ant 2
Channel: 01

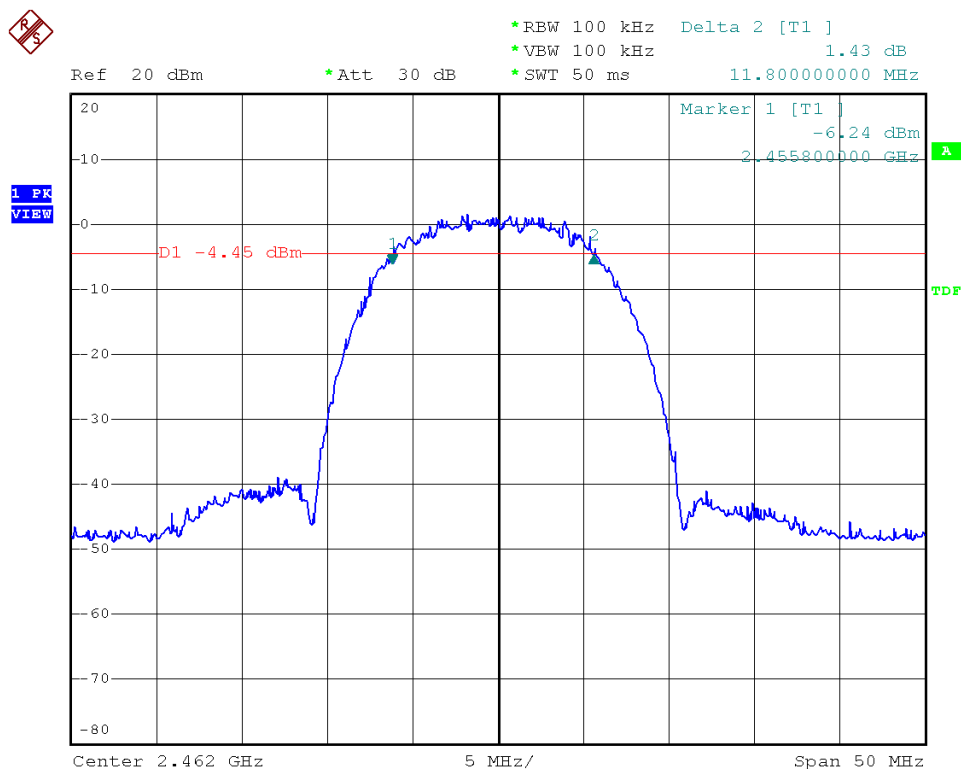




Modulation Standard: 802.11b (11Mbps), Ant 2
Channel: 06

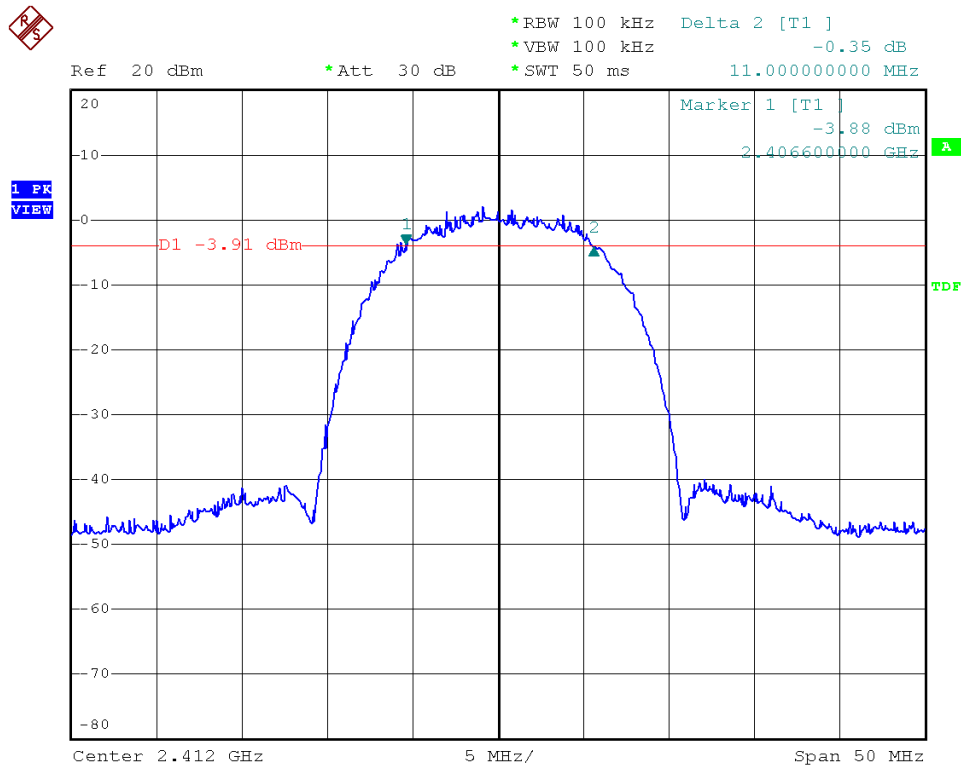


Modulation Standard: 802.11b (11Mbps), Ant 2
Channel: 11

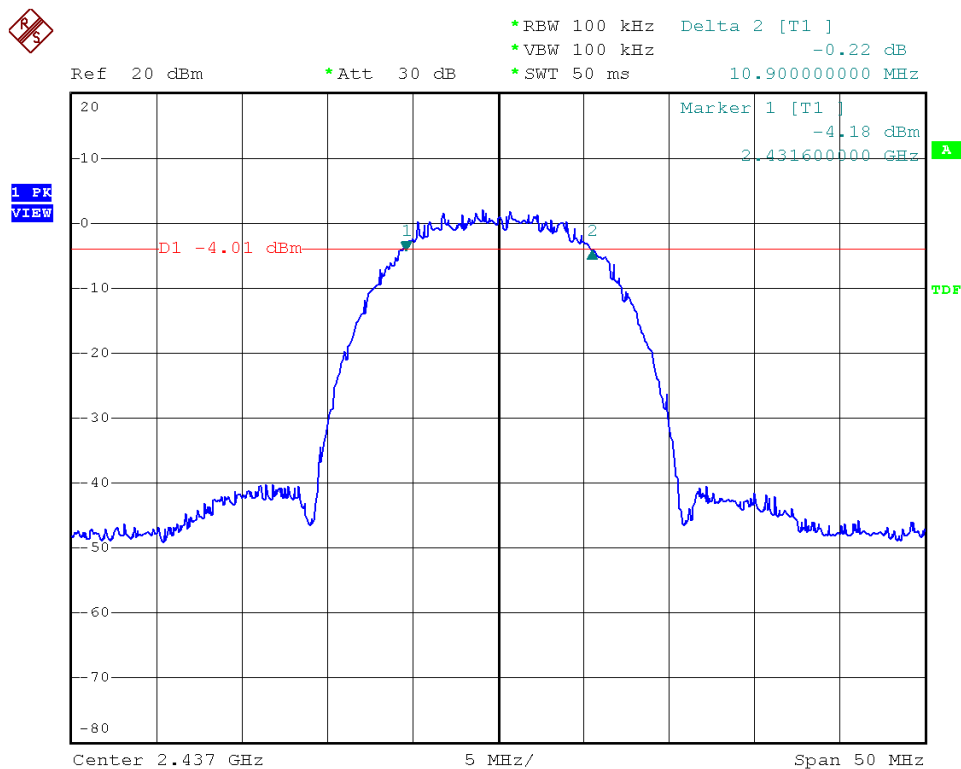




Modulation Standard: 802.11b (11Mbps), Ant 3
Channel: 01

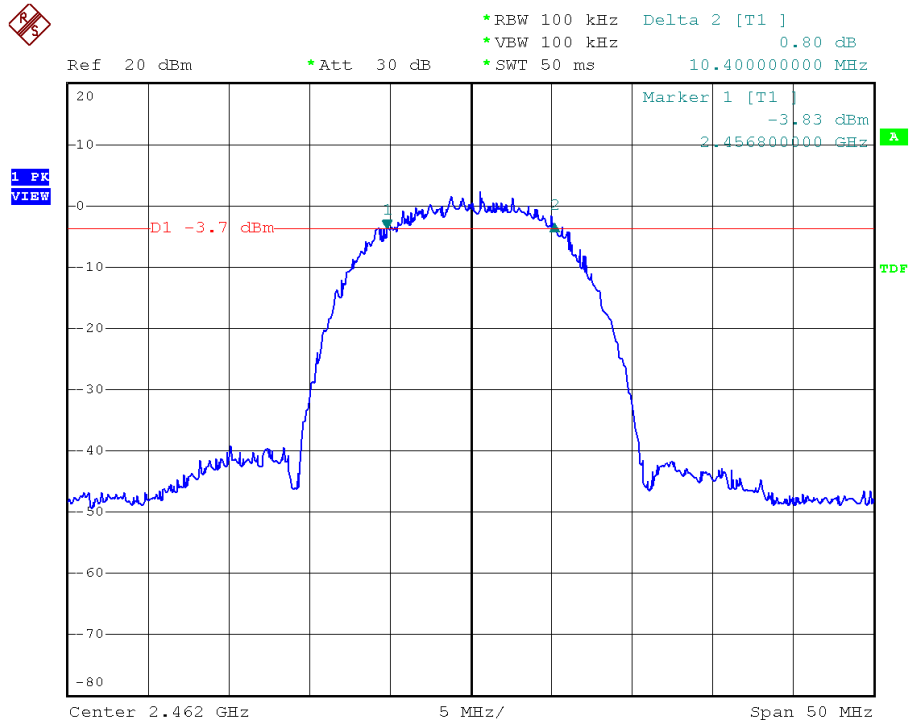


Modulation Standard: 802.11b (11Mbps), Ant 3
Channel: 06



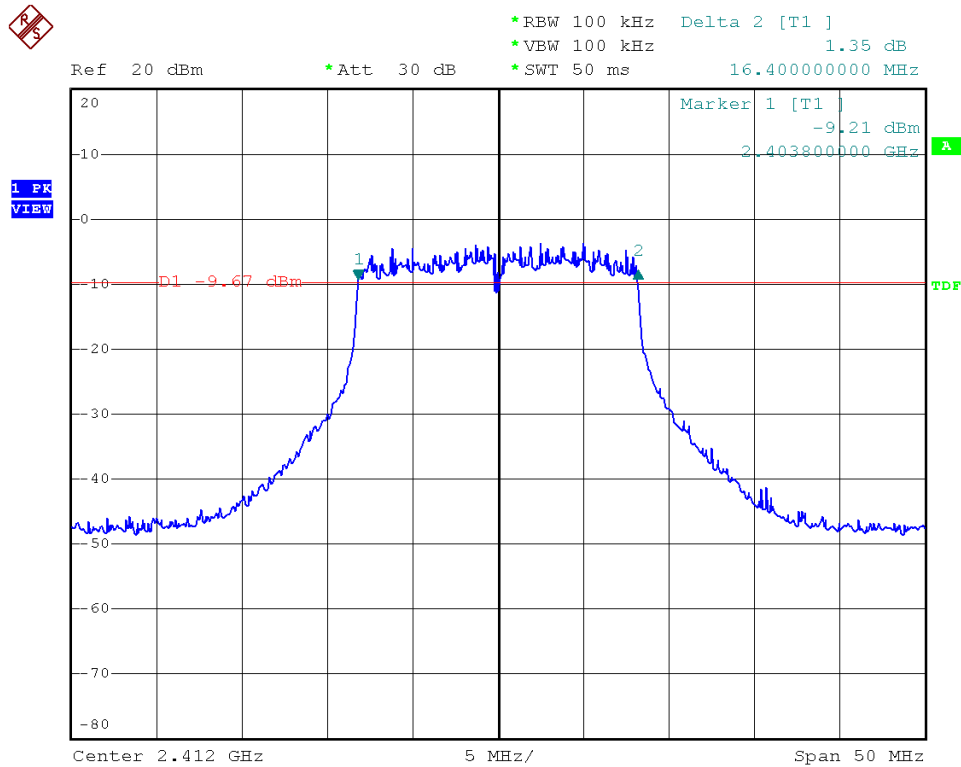


Modulation Standard: 802.11b (11Mbps), Ant 3
Channel: 11

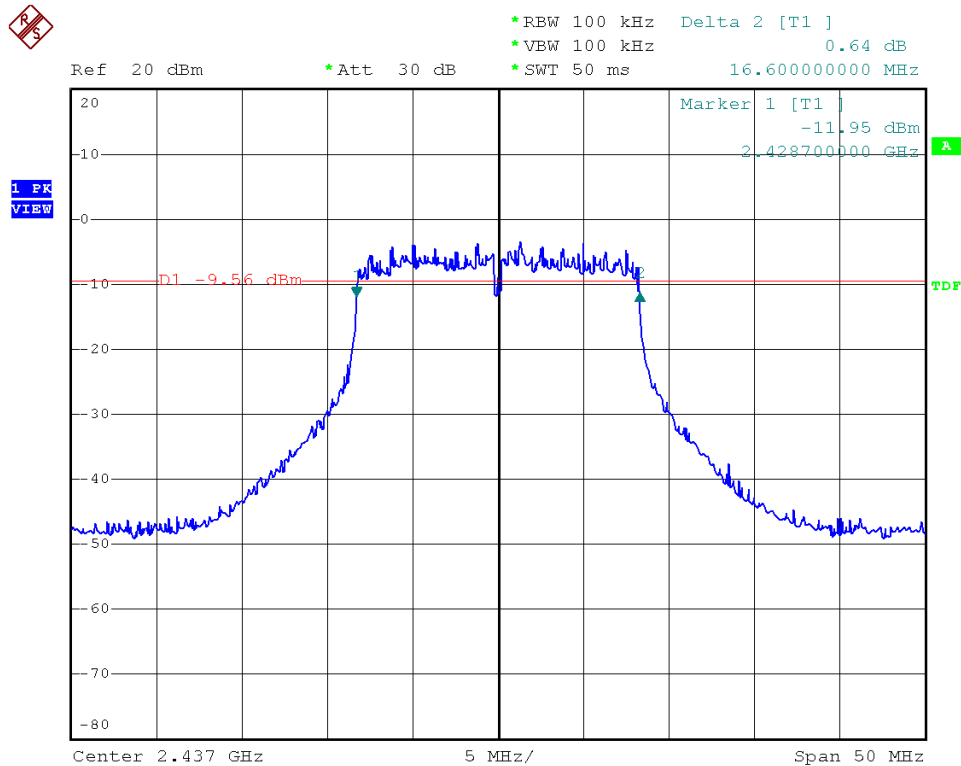




Modulation Standard: 802.11g (54Mbps), Ant 1
Channel: 01

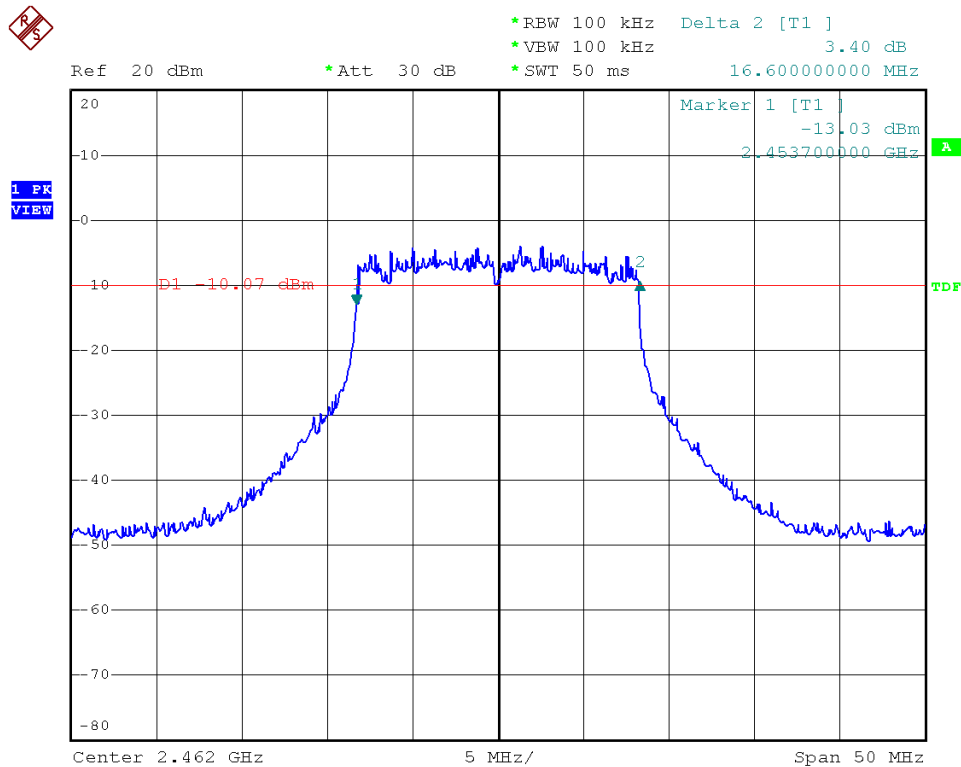


Modulation Standard: 802.11g (54Mbps), Ant 1
Channel: 06

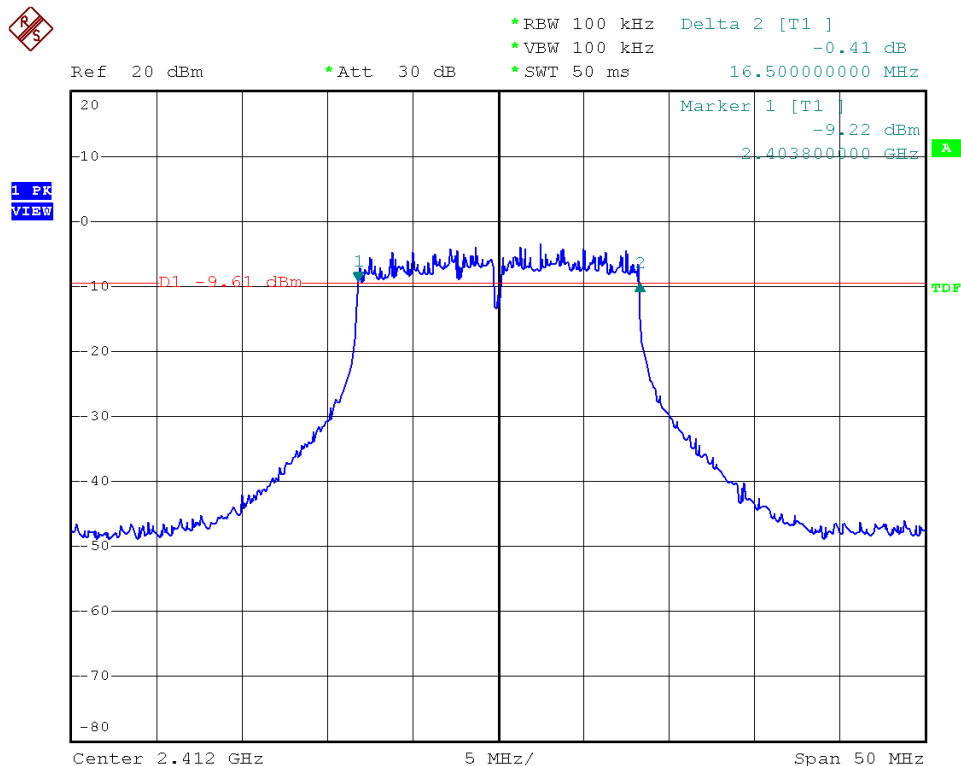




Modulation Standard: 802.11g (54Mbps), Ant 1
Channel: 11

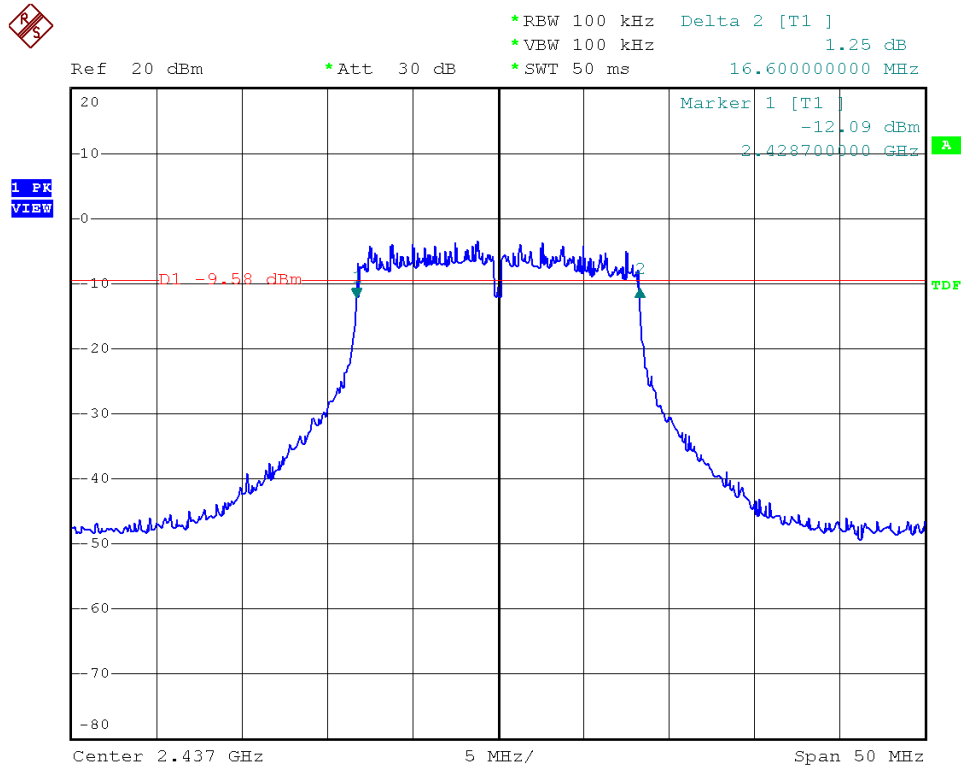


Modulation Standard: 802.11g (54Mbps), Ant 2
Channel: 01

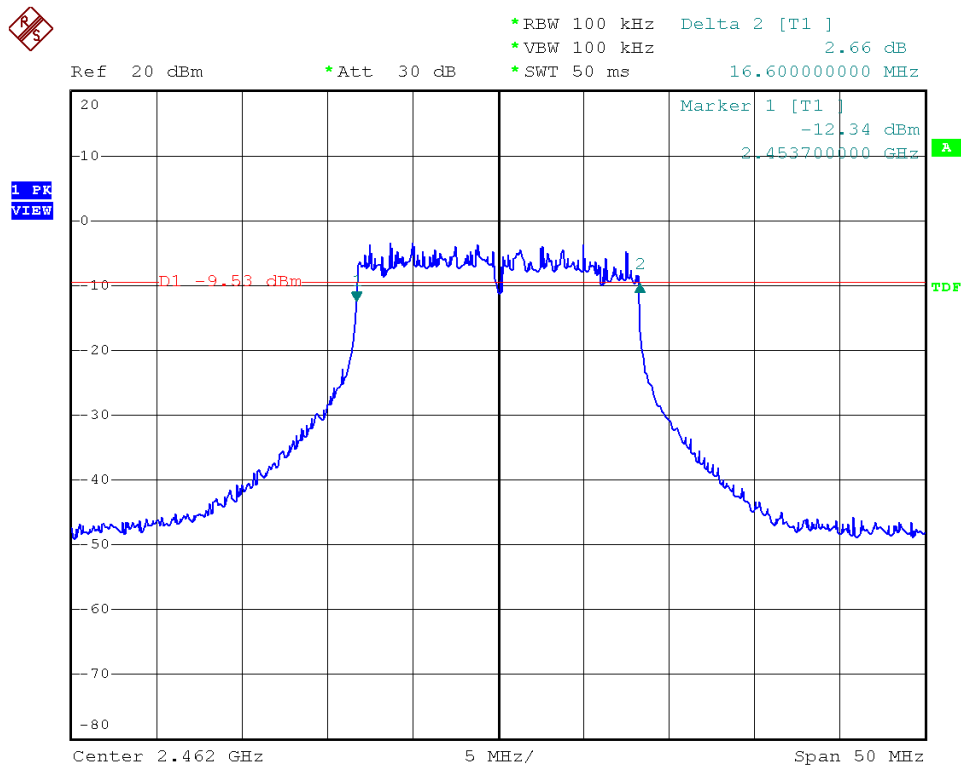




Modulation Standard: 802.11g (54Mbps), Ant 2
Channel: 06

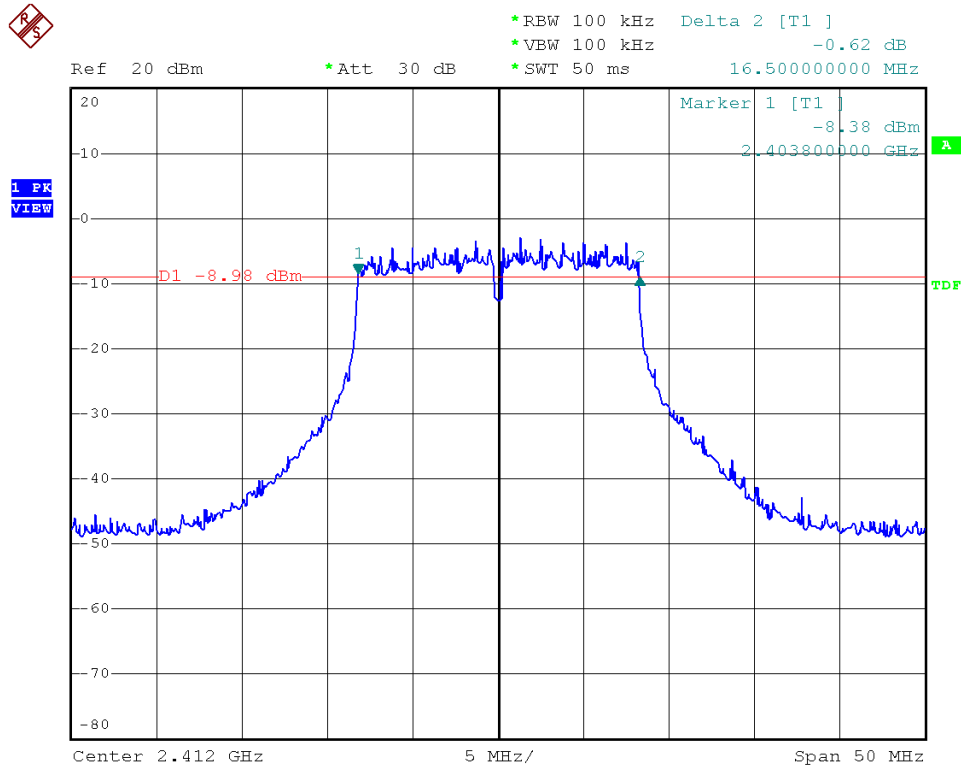


Modulation Standard: 802.11g (54Mbps), Ant 2
Channel: 11

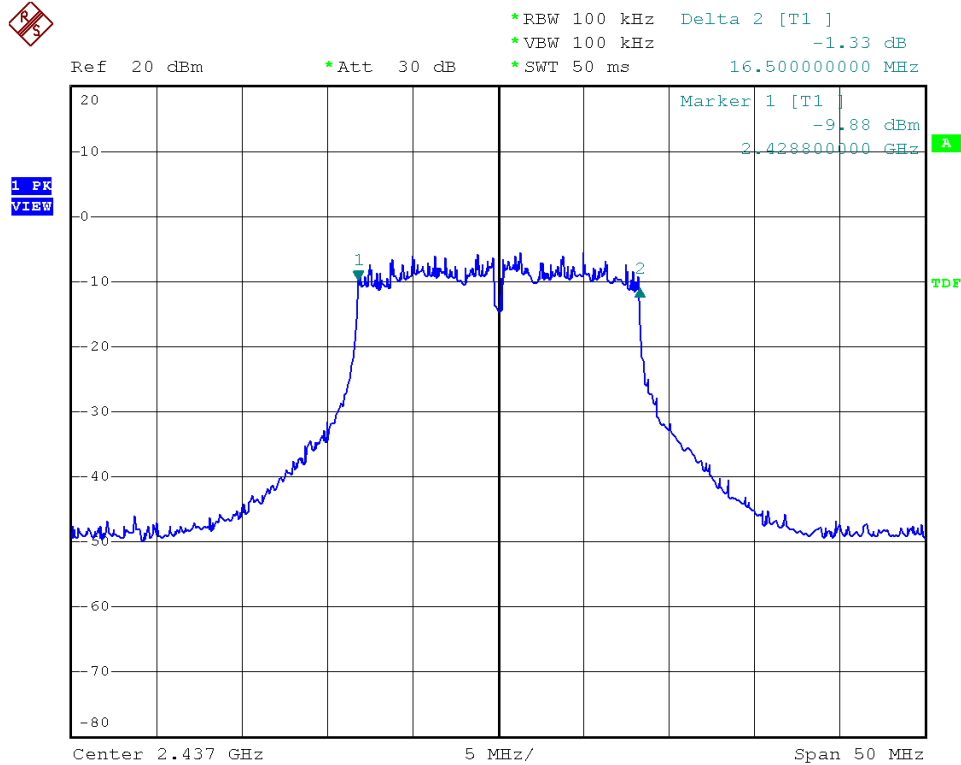




Modulation Standard: 802.11g (54Mbps), Ant 3
Channel: 01

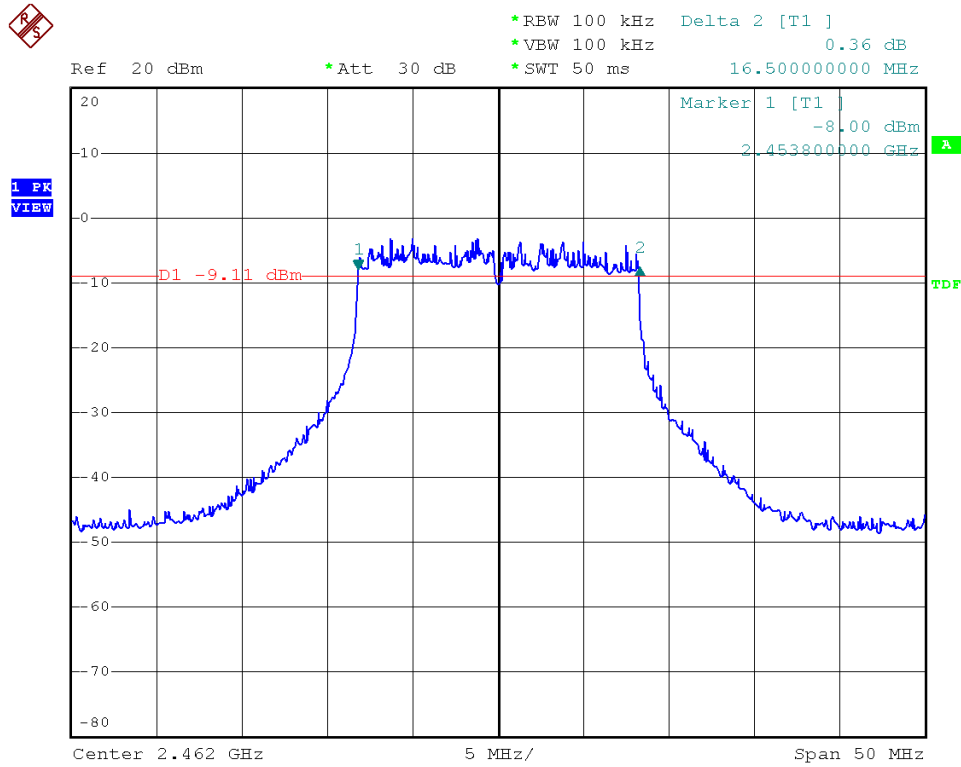


Modulation Standard: 802.11g (54Mbps), Ant 3
Channel: 06



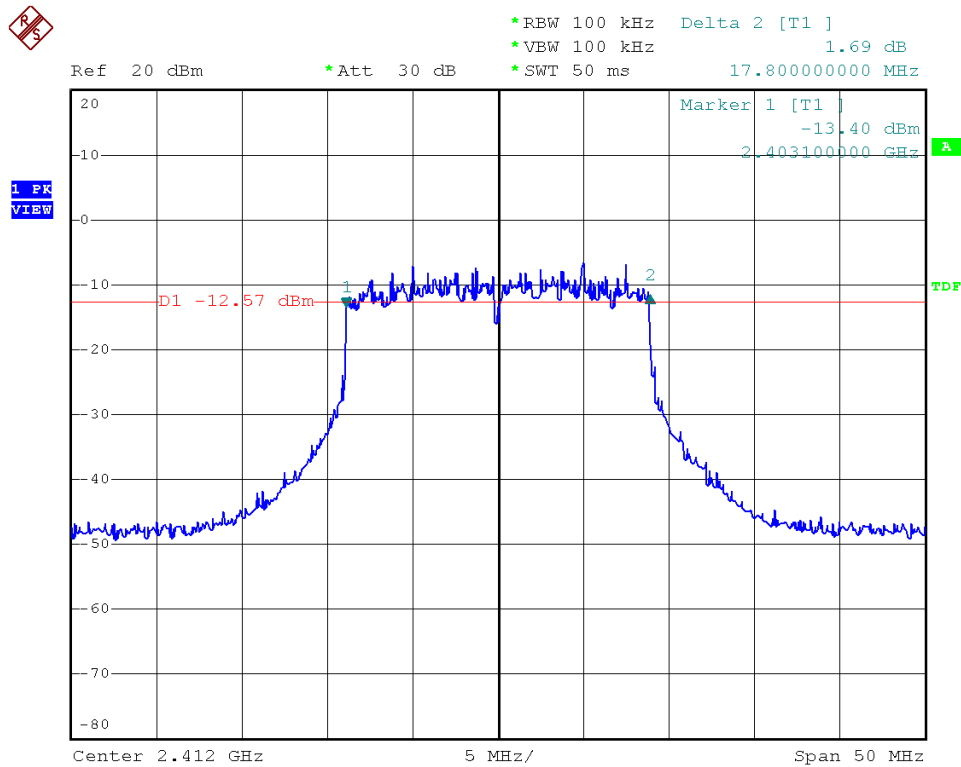


Modulation Standard: 802.11g (54Mbps), Ant 3
Channel: 11

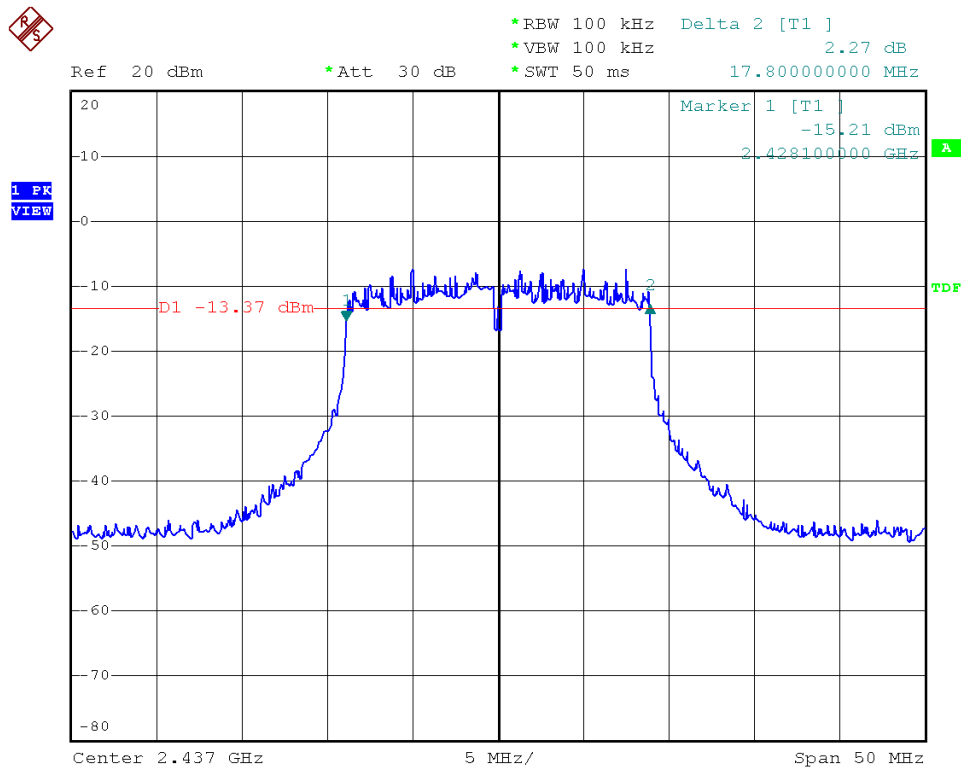




Modulation Standard: 802.11n HT20 (130Mbps), Ant 1
Channel: 01

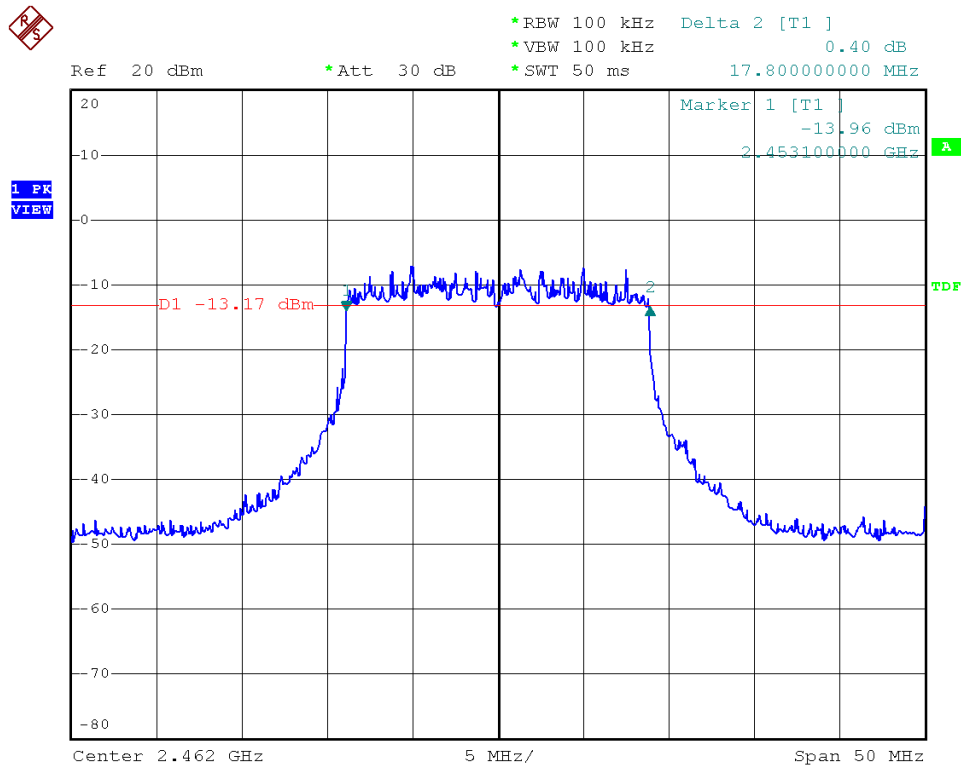


Modulation Standard: 802.11n HT20 (130Mbps), Ant 1
Channel: 06

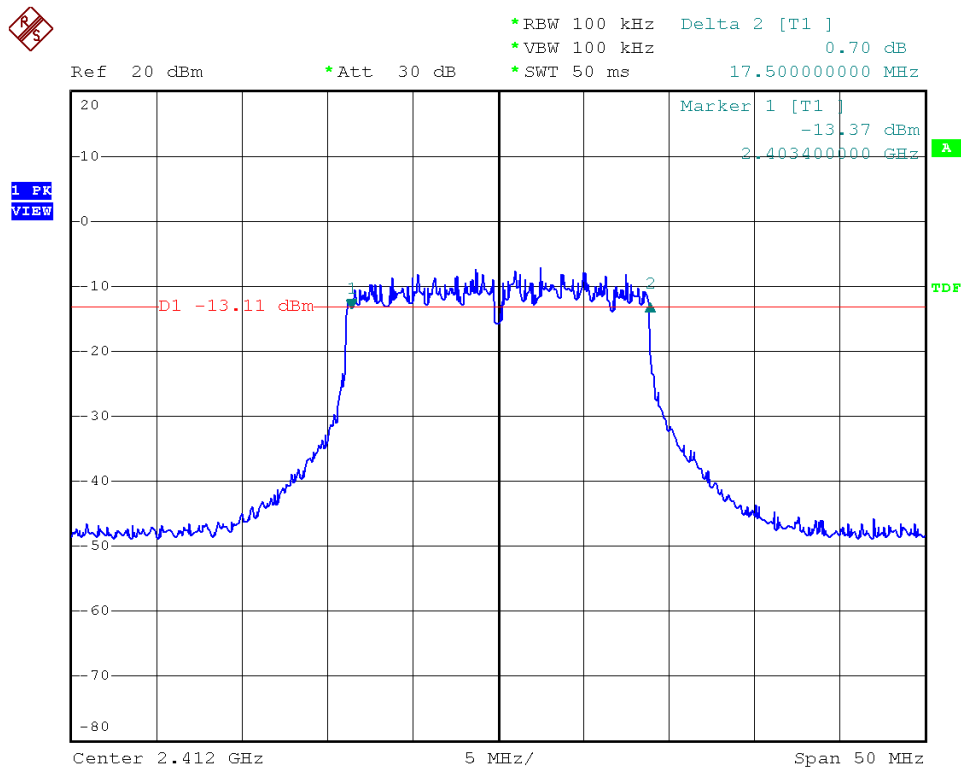




Modulation Standard: 802.11n HT20 (130Mbps), Ant 1
Channel: 11

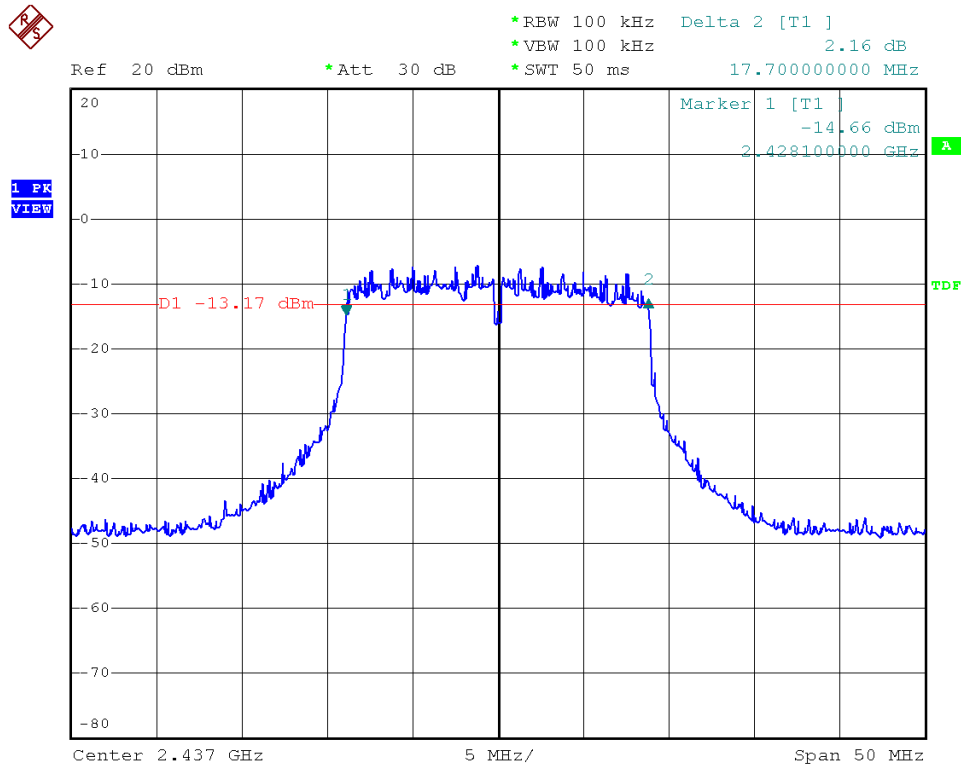


Modulation Standard: 802.11n HT20 (130Mbps), Ant 2
Channel: 01

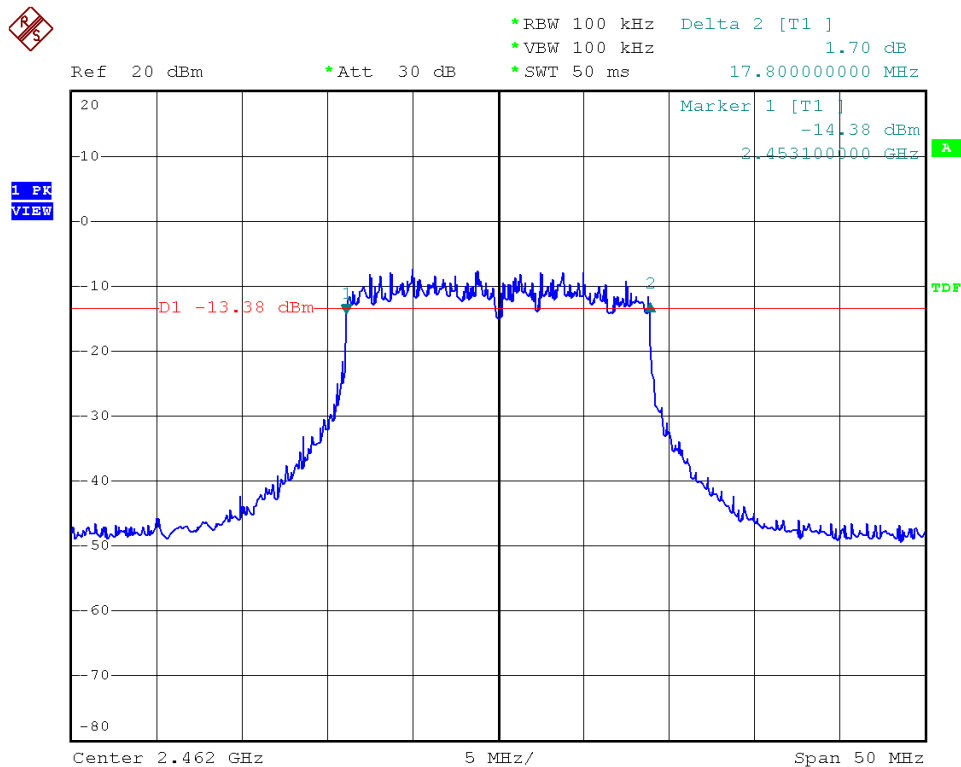




Modulation Standard: 802.11n HT20 (130Mbps), Ant 2
Channel: 06

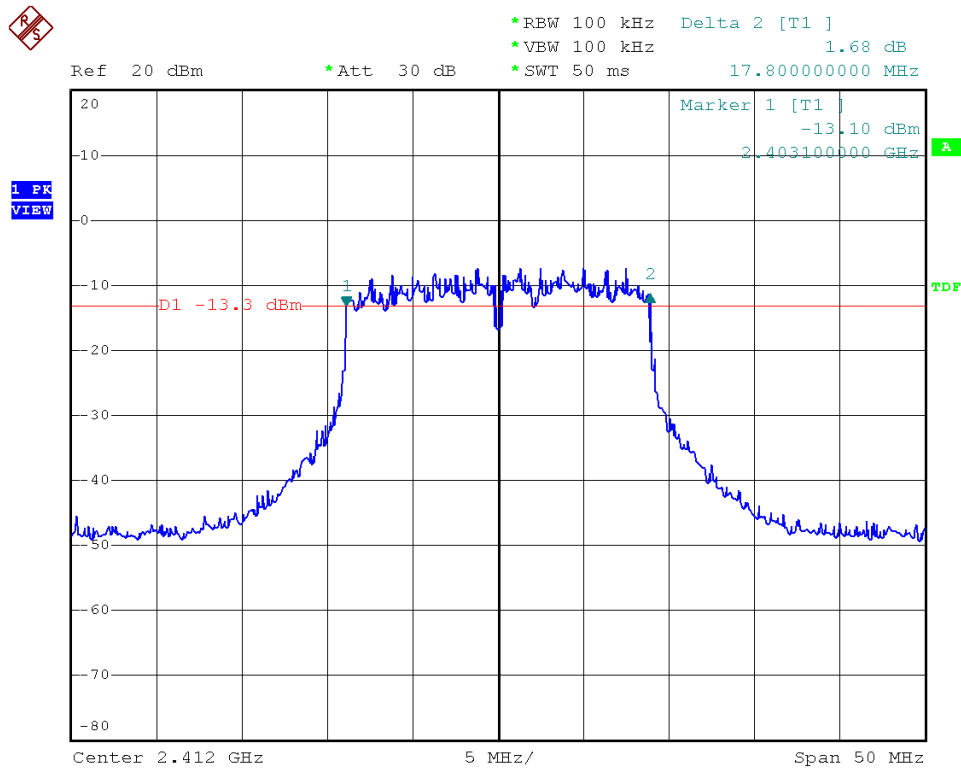


Modulation Standard: 802.11n HT20 (130Mbps), Ant 2
Channel: 11

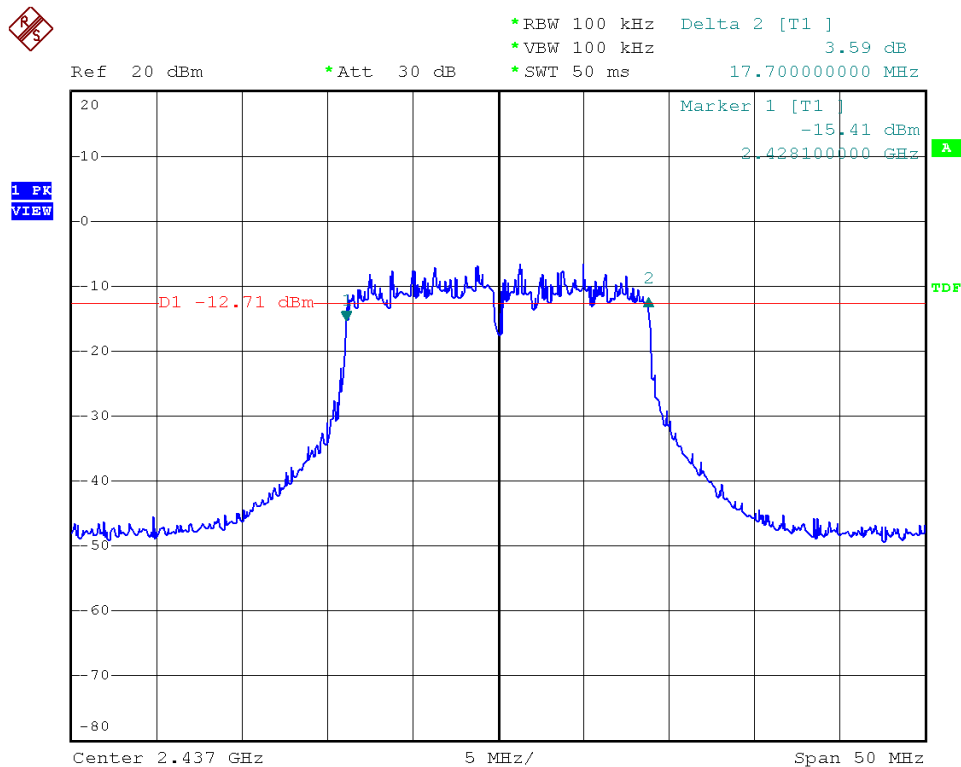




Modulation Standard: 802.11n HT20 (130Mbps), Ant 3
Channel: 01

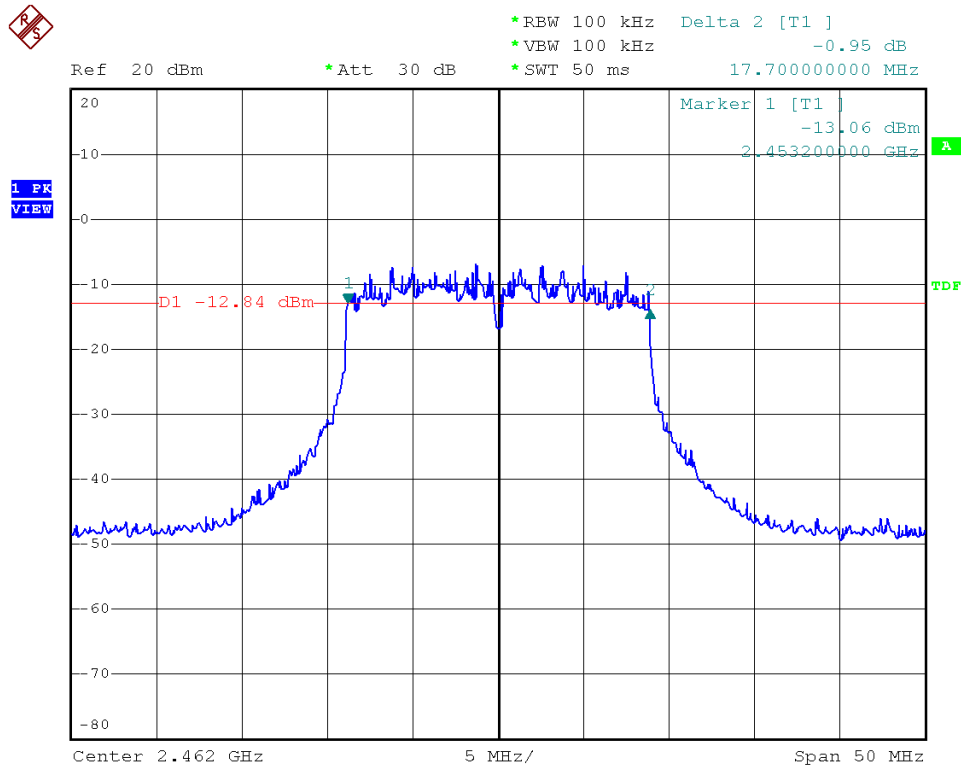


Modulation Standard: 802.11n HT20 (130Mbps), Ant 3
Channel: 06



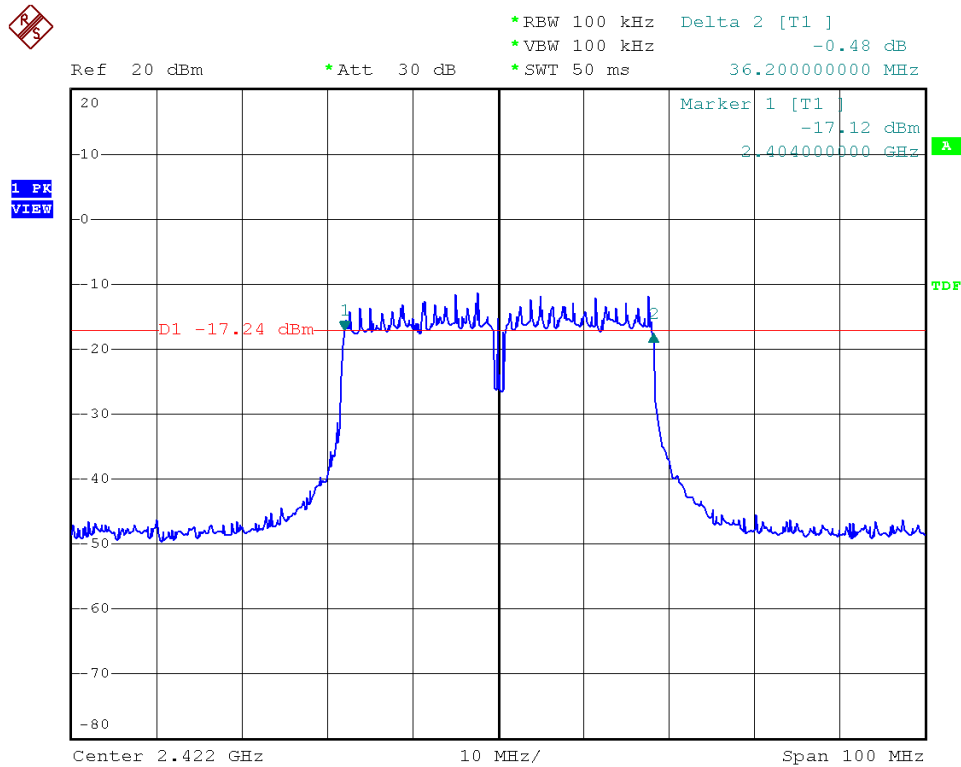


Modulation Standard: 802.11n HT20 (130Mbps), Ant 3
Channel: 11

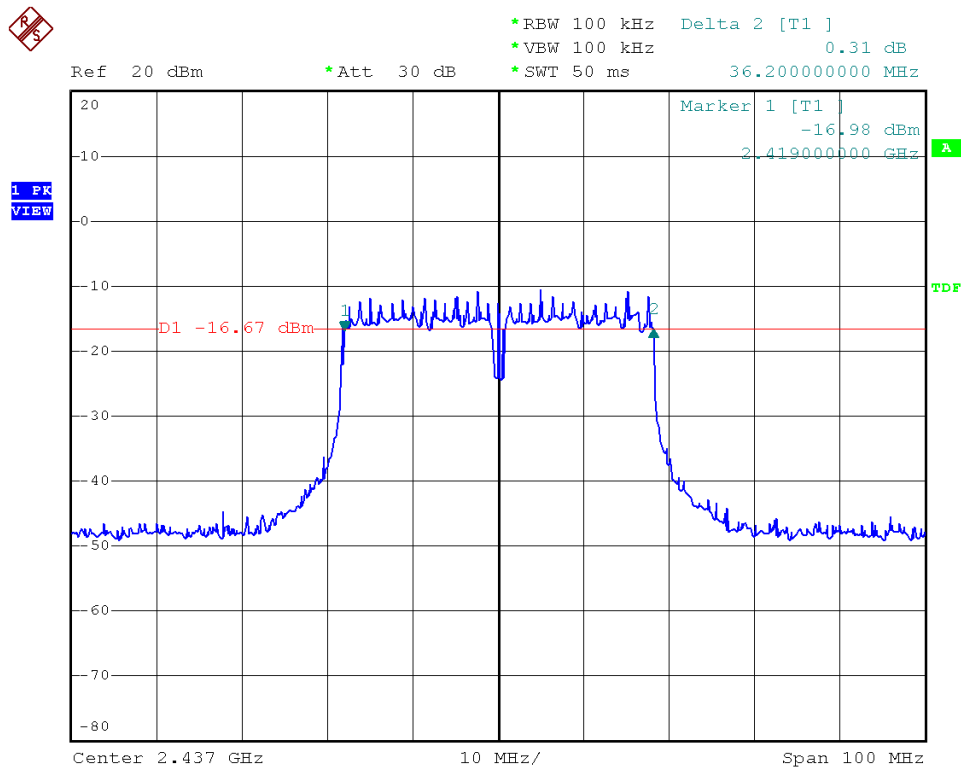




Modulation Standard: 802.11n HT40 (27Mbps), Ant 1
Channel: 03

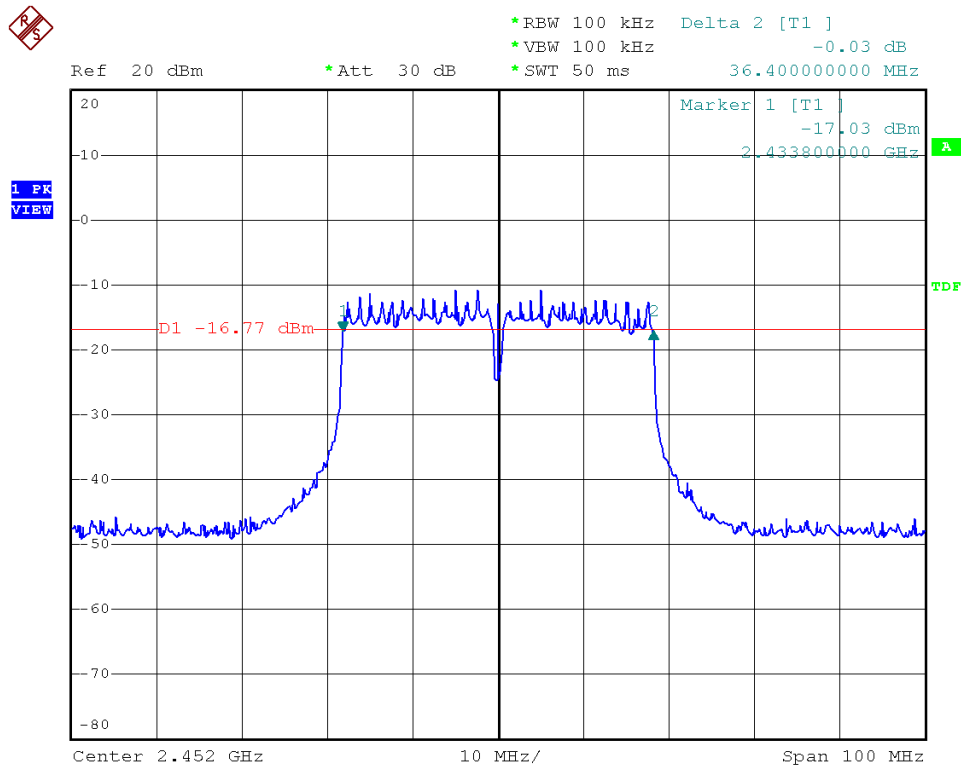


Modulation Standard: 802.11n HT40 (27Mbps), Ant 1
Channel: 06

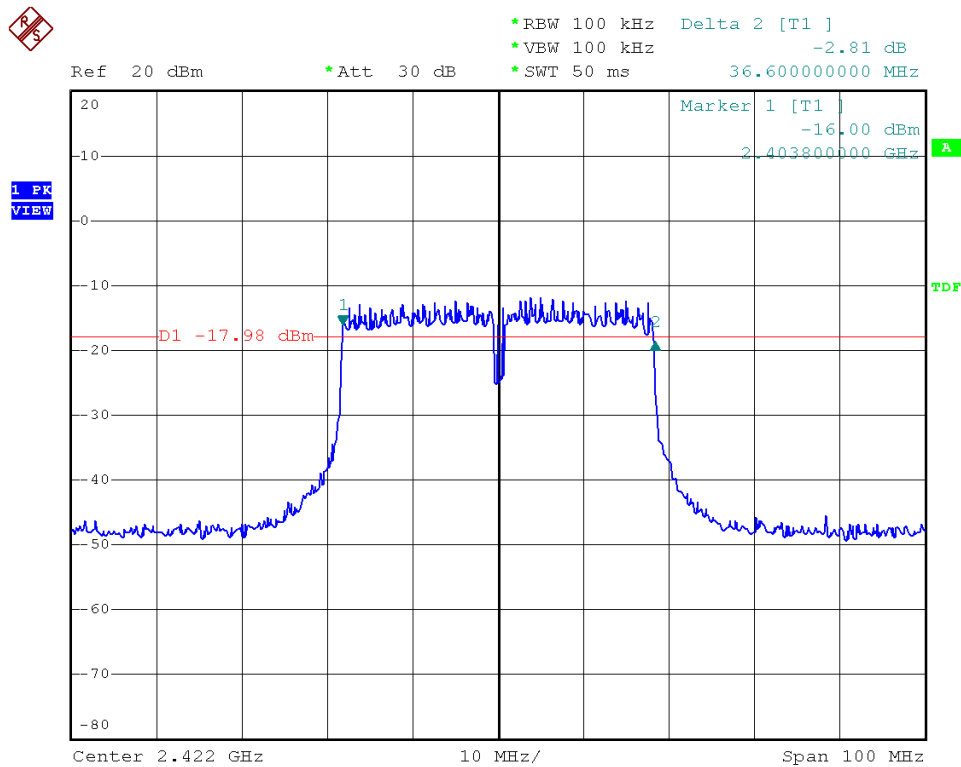




Modulation Standard: 802.11n HT40 (27Mbps), Ant 1
Channel: 09

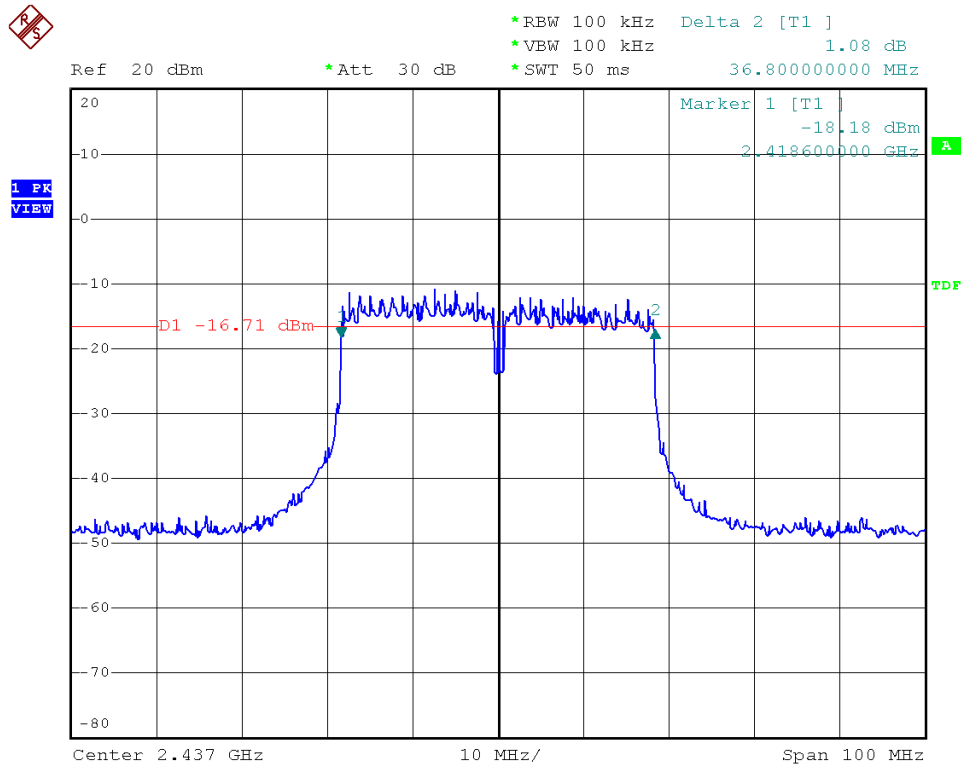


Modulation Standard: 802.11n HT40 (27Mbps), Ant 2
Channel: 03

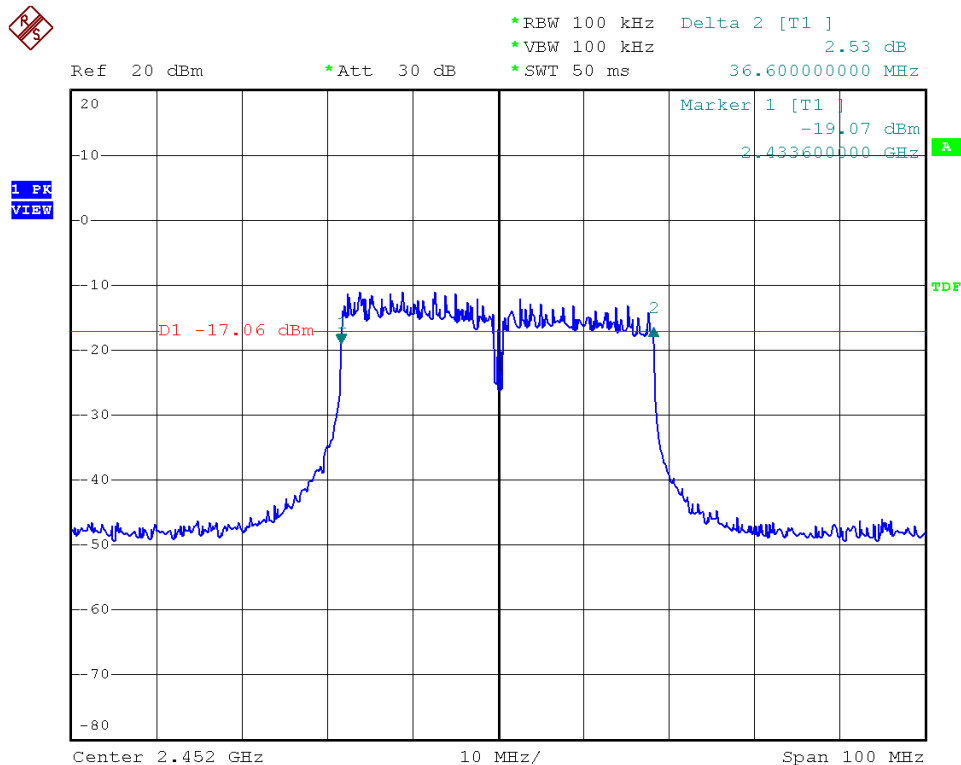




Modulation Standard: 802.11n HT40 (27Mbps), Ant 2
Channel: 06

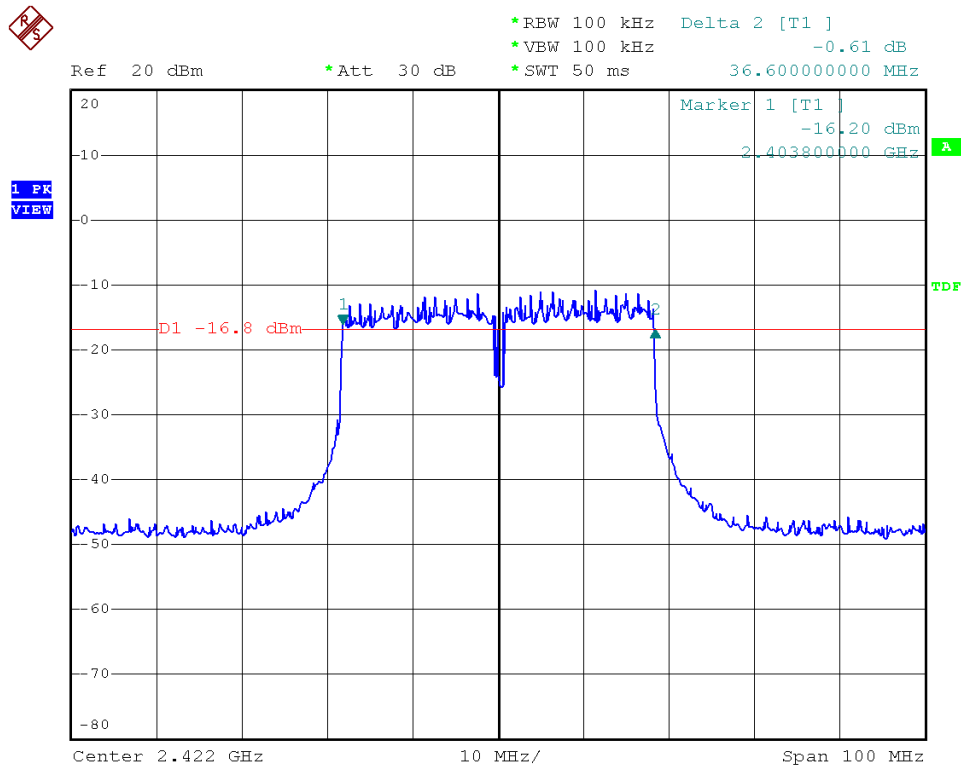


Modulation Standard: 802.11n HT40 (27Mbps), Ant 2
Channel: 09

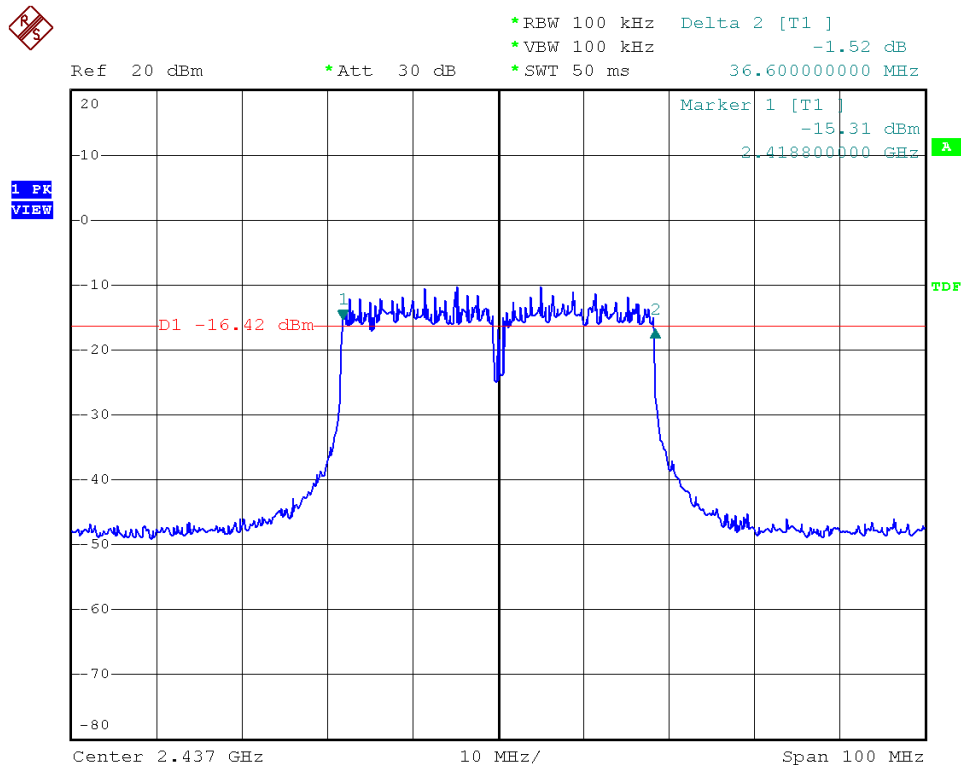




Modulation Standard: 802.11n HT40 (27Mbps), Ant 3
Channel: 03

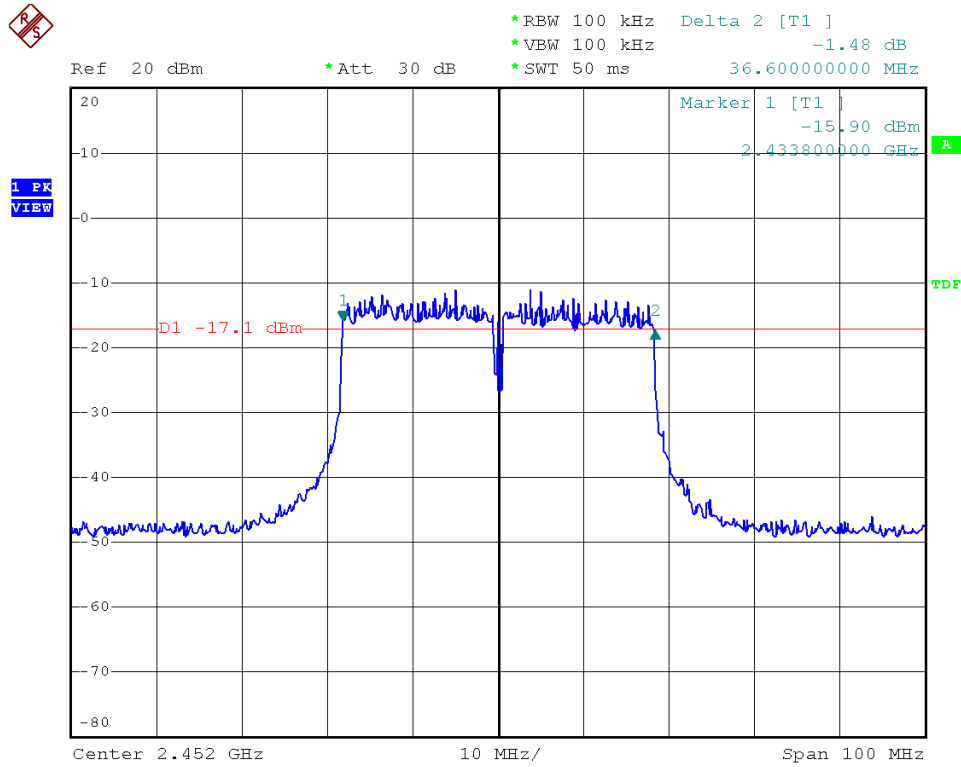


Modulation Standard: 802.11n HT40 (27Mbps), Ant 3
Channel: 06



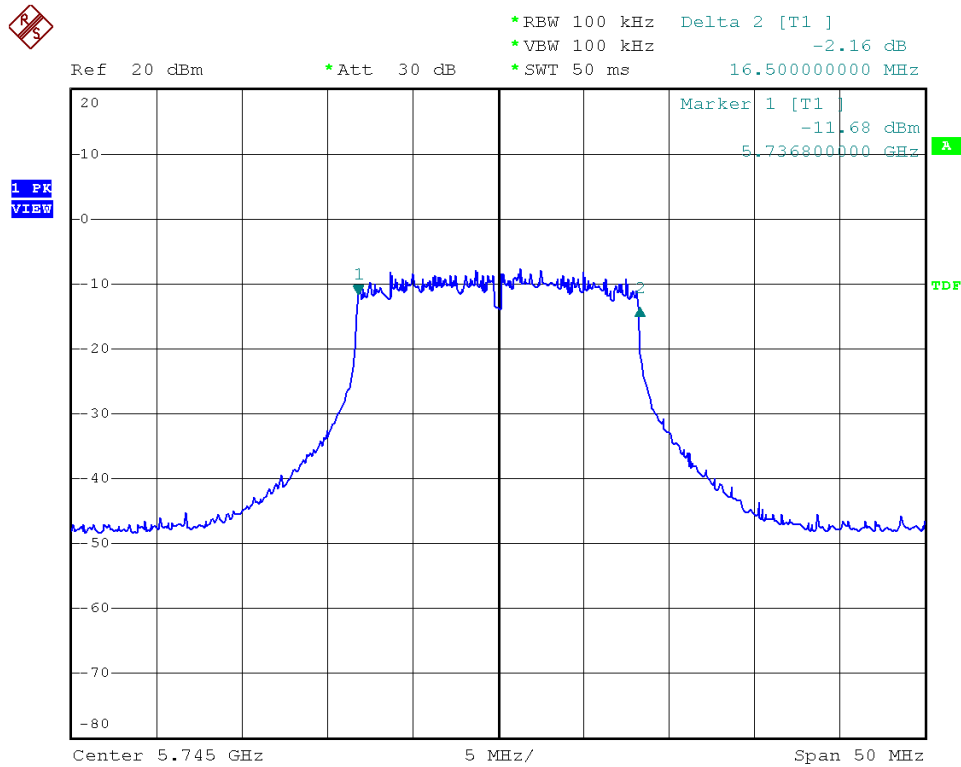


Modulation Standard: 802.11n HT40 (27Mbps), Ant 3
Channel: 09





Modulation Standard: 802.11a (54Mbps), Ant 1
Channel: 149



Modulation Standard: 802.11a (54Mbps), Ant 1
Channel: 157

