



FCC RADIO TEST REPORT

FCC ID: HHOYC005

Product : 300Mbps Dual Band Wireless N USB Adapter

Trade Name :  **JCG**

Model Name : JWL-D572R

Serial Model : N/A

Report No. : NTEK- 2013NT0225203F1

Prepared for

Shenzhen Yichen Technology Development Co., Ltd.
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Prepared by

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TEST RESULT CERTIFICATION

Applicant's name : Shenzhen Yichen Technoloy Development Co., Ltd.
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Manufacture's Name : Shenzhen Yichen Technoloy Development Co., Ltd.
Address : 5F, No.1, Honghualing 2nd industrial Zone, Xili Town, Nanshan District, Shenzhen, Guangdong, People's Republic Of China

Product description

Product name : 300Mbps Dual Band Wireless N USB Adapter
Model and/or type reference : JWL-D572R
Serial Model : N/A

Standards : FCC Part15.247, IC RSS-210 Issue 8, IC RSS-Gen Issue 3

Test procedure ANSI C63.4-2003

This device described above has been tested by NTEK, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Date of Test

Date (s) of performance of tests 25 Feb. 2013 ~19 Mar. 2013

Date of Issue 20 Mar. 2013

Test Result **Pass**

Testing Engineer :

Apple Huang

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1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 (15.247) , Subpart C IC RSS-210 Issue 8			
Standard Section	Test Item	Judgment	Remark
15.207 & 7.2.4	Conducted Emission	PASS	
15.247 (a)(2) & A8.2	6dB Bandwidth	PASS	
15.247 (b) & A8.4	Peak Output Power	PASS	
15.247 (c) & A8.5	Radiated Spurious Emission	PASS	
15.247 (d) & A8.2	Power Spectral Density	PASS	
15.205 & A8.5	Band Edge Emission	PASS	
15.203	Antenna Requirement	PASS	

NOTE:

(1) "N/A" denotes test is not applicable in this Test Report

1.1 TEST FACILITY

NTEK Testing Technology Co., Ltd

Add.:1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen P.R. China.

FCC Registration No.:238937; IC Registration No.:9270A-1

CNAS Registration No.:L5516

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

No.	Item	Uncertainty
1	Conducted Emission Test	$\pm 1.38\text{dB}$
2	RF power,conducted	$\pm 0.16\text{dB}$
3	Spurious emissions,conducted	$\pm 0.21\text{dB}$
4	All emissions,radiated(<1G)	$\pm 4.68\text{dB}$
5	All emissions,radiated(>1G)	$\pm 4.89\text{dB}$
6	Temperature	$\pm 0.5^{\circ}\text{C}$
7	Humidity	$\pm 2\%$

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	300Mbps Dual Band Wireless N USB Adapter	
Trade Name		
Model Name	JWL-D572R	
Serial Model	N/A	
Model Difference	N/A	
Product Description	The EUT is a 300Mbps Dual Band Wireless N USB Adapter	
	Operation Frequency:	2412MHz~2462MHz 5725 MHz ~ 5825 MHz
	Modulation Type:	CCK/OFDM/DBPSK/DAPSK
	Bit Rate of Transmitter	802.11b:11/5.5/2/1 Mbps 802.11g/a:54/48/36/24/18/12/9/6Mbps 802.11n(20/40MHz):300/270/150/144. 44/130/117/115.56/104/86.67/78/52/6. 5 Mbps
	Number Of Channel	Refer to Note 2
	Antenna Designation:	Please see Note 3.
	Max.Output Power(Conducted):	13.67dBm (PK) 9.78dbm(AV)
	Operation Frequency:	5180 MHz ~ 5240 MHz
	Modulation Type:	OFDM (BPSK / QPSK / 16QAM / 64QAM)
	Antenna Designation:	Please see Note 3
	Max.Output Power(Conducted):	9.81dBm(PK) 6.61dBm(AV)
	Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual.	
	Channel List	Please refer to the Note 2.
	Ratings	DC 5V from PC
Adapter	N/A	
Battery	N/A	
Connecting I/O Port(s)	Please refer to the User's Manual	

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

2. 2.4GHz:

Channel List for 802.11b/g/n(20MHz)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	04	2427	07	2442	10	2457
02	2417	05	2432	08	2447	11	2462
03	2422	06	2437	09	2452		

Channel List for 802.11n(40MHz)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
03	2422	06	2437	09	2452		
04	2427	07	2442				
05	2432	08	2447				

5GHz:

802.11a Carrier Frequency Channel							
Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)
149	5745	153	5765	157	5785	161	5805
165	5825	-	-	-	-	-	-

802.11n (BW 20MHz) Carrier Frequency Channel							
Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)
149	5745	153	5765	157	5785	161	5805
165	5825	-	-	-	-	-	-

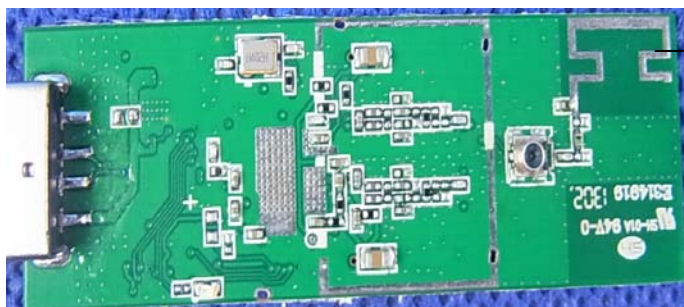
3.

Table for Filed Antenna

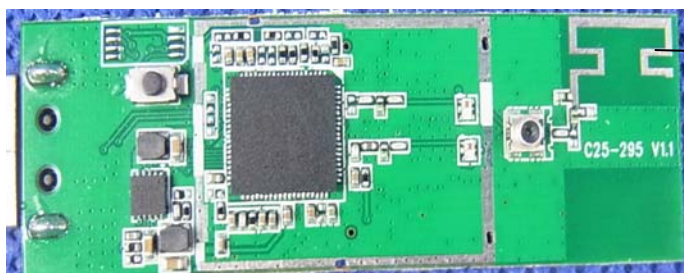
Ant	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
A	N/A	N/A	PCB Antenna	N/A	2.4GHz: 1.2 5GHz:2.3	N/A
B	N/A	N/A	PCB Antenna	N/A	2.4GHz:1.2 5GHz:2.3	N/A

For MIMO mode , Directional gain= $G_{ANT} + 10\log(N)$ dbi =4.21dbi<6dbi in 2.4GHz
 Directional gain= $G_{ANT} + 10\log(N)$ dbi =5.31dbi<6dbi in 5GHz.

therefore the Output Power limited doesn't be reduced.



ANT A



ANT B

The Control software(tool_WIFI.exe) can control antenna A and antenna B, For 802.11b/g mode, when antenna A is transmitting, antenna B closed, when antenna B is transmitting, antenna A closed. And the data of antenna A is recorded for radiated emission and band edge.

For 802.11n/a mode ,two antennas simultaneously transmit. And the data is recorded for radiated emission and band edge.

2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	802.11b
Mode 2	802.11g
Mode 3	802.11n(20)
Mode 4	802.11n(40)
Mode 5	802.11a
Mode 6	Link Mode

For Conducted Emission	
Final Test Mode	Description
Mode 6	Link Mode

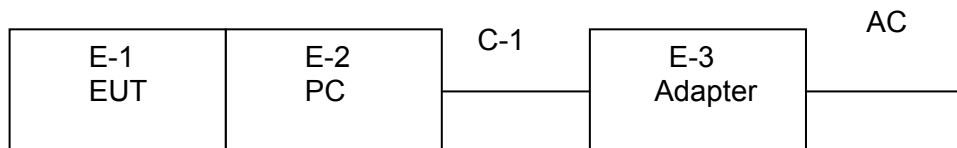
For Radiated Emission	
Final Test Mode	Description
Mode 1	802.11b
Mode 2	802.11g
Mode 3	802.11n(20)
Mode 4	802.11n(40)
Mode 5	802.11a

Note:

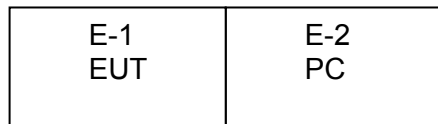
- (1) The measurements are performed at the highest, middle, lowest available channels.
- (2) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported

2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Conducted Emission Test



Radiated Spurious Emission Test



2.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
E-1	300Mbps Dual Band Wireless N USB Adapter	 JCG	JWL-D572R	N/A	EUT
E-2	Notebook	IBM	2366	N/A	
E-3	Adapter	IBM	08K8202	N/A	

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	0.8M	
C-2	NO	NO	0.5M	

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.

2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Spectrum Analyzer	Agilent	E4407B	MY45108040	2012.07.06	2013.07.05	1 year
2	Test Receiver	R&S	ESPI	101318	2012.06.07	2013.06.06	1 year
3	Bilog Antenna	TESEQ	CBL6111D	31216	2012.07.06	2013.07.05	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	6200264416	2012.06.07	2013.06.06	1 year
5	Spectrum Analyzer	ADVANTEST	R3132	150900201	2012.06.07	2013.06.06	1 year
6	Horn Antenna	EM	EM-AH-10180	2011071402	2012.07.06	2013.07.05	1 year
7	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2012.07.06	2013.07.05	1 year
8	Amplifier	EM	EM-30180	060538	2012.12.22	2013.12.21	1 year
9	Loop Antenna	ARA	PLA-1030/B	1029	2012.06.08	2013.06.07	1 year
10	Power Meter	R&S	NRVS	100696	2012.07.06	2013.07.05	1 year
11	Power Sensor	R&S	URV5-Z4	0395.1619.05	2012.07.06	2013.07.05	1 year
12	SHF-EHF Horn	Schwarzbeck	BBHA 9170	BBHA170249	2012.08.03	2013.08.02	1 year
13	Spectrum Analyzer	R&S	FSP40	100055	2012.08.09	2013.08.08	1 year
14	Power Meter	Agilent	E4416A	GB41292344	2012.07.06	2013.07.05	1 year
15	Power Sensor	Agilent	E9327A	US40441548	2012.07.06	2013.07.05	1 year

Conduction Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Test Receiver	R&S	ESCI	101160	2012.06.06	2013.06.05	1 year
2	LISN	R&S	ENV216	101313	2012.08.24	2013.08.23	1 year
3	LISN	EMCO	3816/2	00042990	2012.08.24	2013.08.23	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	6200264417	2012.06.07	2013.06.06	1 year
5	Passive Voltage Probe	R&S	ESH2-Z3	100196	2012.06.07	2013.06.06	1 year
6	Absorbing clamp	R&S	MOS-21	100423	2012.06.08	2013.06.07	1 year

3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)		Standard
	Quasi-peak	Average	Quasi-peak	Average	
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	CISPR
0.50 -5.0	73.00	60.00	56.00	46.00	CISPR
5.0 -30.0	73.00	60.00	60.00	50.00	CISPR

0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	73.00	60.00	56.00	46.00	FCC
5.0 -30.0	73.00	60.00	60.00	50.00	FCC

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

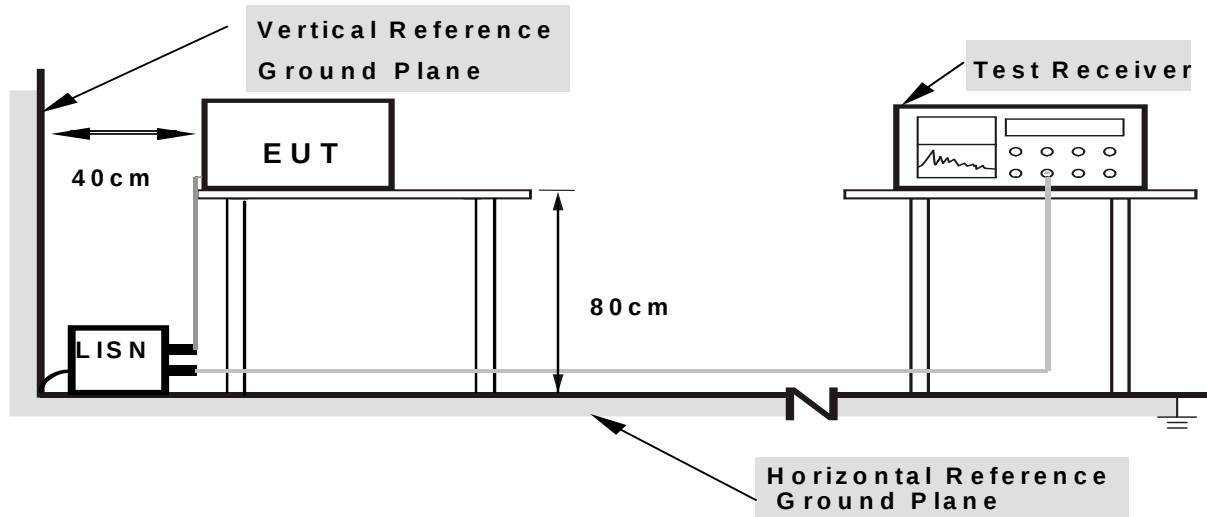
3.1.2 TEST PROCEDURE

- The EUT was placed 0.4 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- LISN at least 80 cm from nearest part of EUT chassis.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.1.3 DEVIATION FROM TEST STANDARD

No deviation

3.1.4 TEST SETUP



Note: 1.Support units were connected to second LISN .

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

3.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

3.1.6 TEST RESULTS

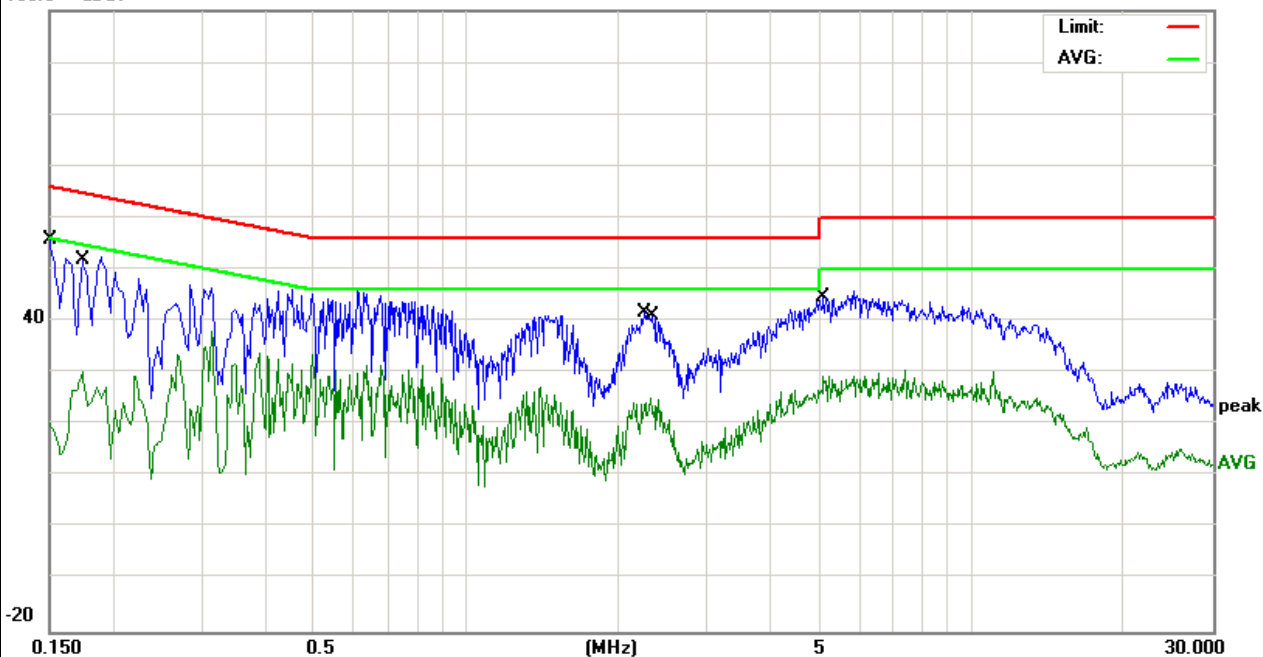
EUT :	300Mbps Dual Band Wireless N USB Adapter	Model Name. :	JWL-D572R
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Phase :	L
Test Voltage :	DC 5.0V from PC AC120V/60Hz	Test Mode :	Mode 6

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.15	45.84	9.82	55.66	66	-10.34	QP
0.1739	20.31	9.8	30.11	54.77	-24.66	AVG
2.258	31.25	10.26	41.51	56	-14.49	QP
2.33	14.75	10.26	25.01	46	-20.99	AVG
5.0938	34.29	10.38	44.67	60	-15.33	QP
5.0938	19.09	10.38	29.47	50	-20.53	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

100.0 dBμV



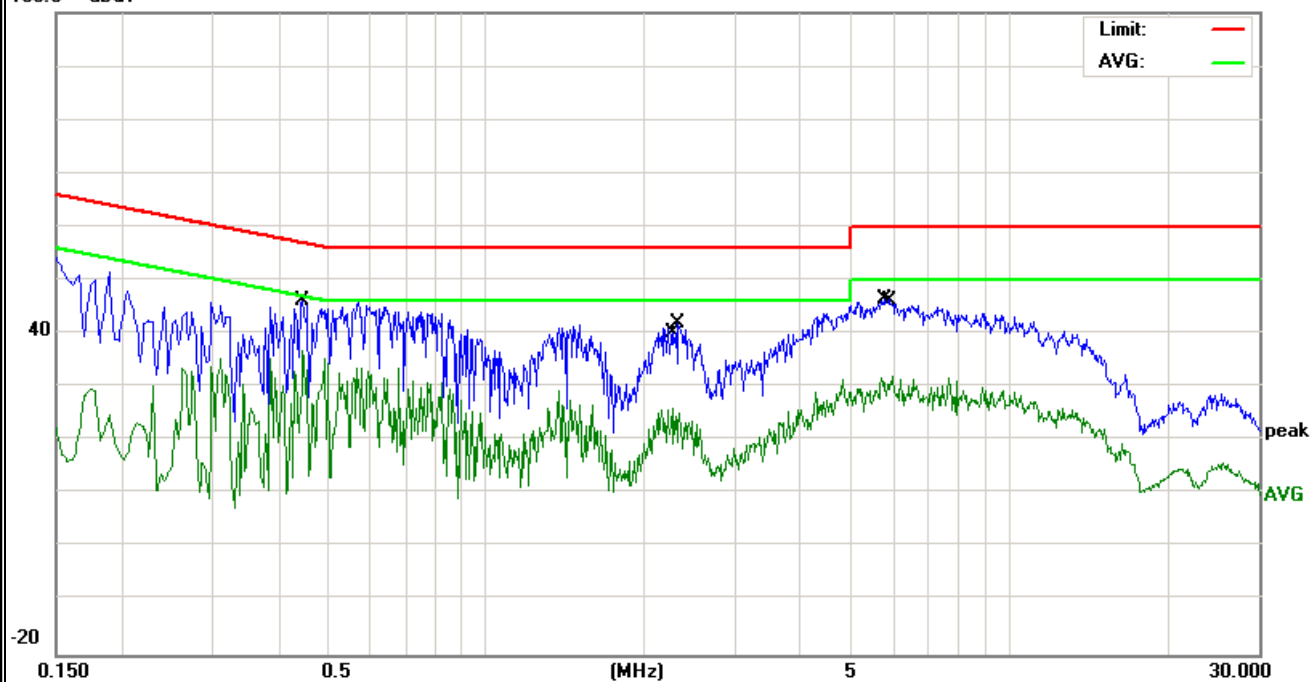
EUT :	300Mbps Dual Band Wireless N USB Adapter	Model Name. :	JWL-D572R
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Phase :	N
Test Voltage :	DC 5.0V from PC AC120V/60Hz	Test Mode :	Mode 6

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Detector Type
0.446	35.96	10.12	46.08	56.95	-10.87	QP
0.446	26.73	10.12	36.85	46.95	-10.1	AVG
2.2659	15.7	10.26	25.96	46	-20.04	AVG
2.322	31.61	10.26	41.87	56	-14.13	QP
5.7458	35.96	10.4	46.36	60	-13.64	QP
5.9818	21.71	10.4	32.11	50	-17.89	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

100.0 dBμV



3.2 RADIATED EMISSION MEASUREMENT

3.2.1 RADIATED EMISSION LIMITS (Frequency Range 9kHz-1000MHz)

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Class A (dBuV/m) (at 3M)		Class B (dBuV/m) (at 3M)	
	PEAK	AVERAGE	PEAK	AVERAGE
Above 1000	80	60	74	54

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

3.2.2 TEST PROCEDURE

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

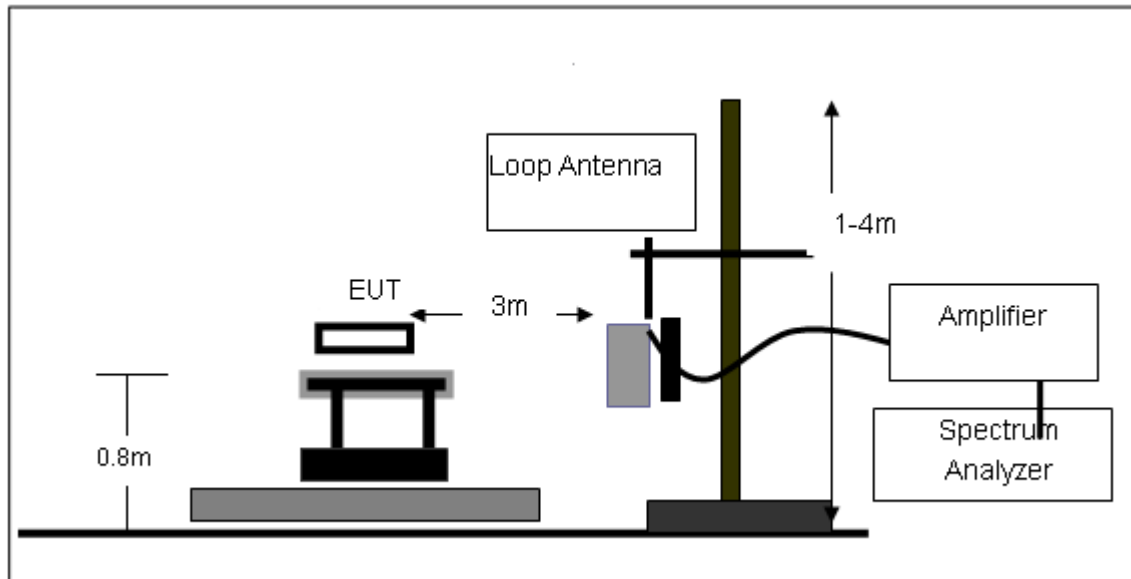
Both horizontal and vertical antenna polarities were tested
and performed pretest to three orthogonal axis. The worst case emissions were reported

3.2.3 DEVIATION FROM TEST STANDARD

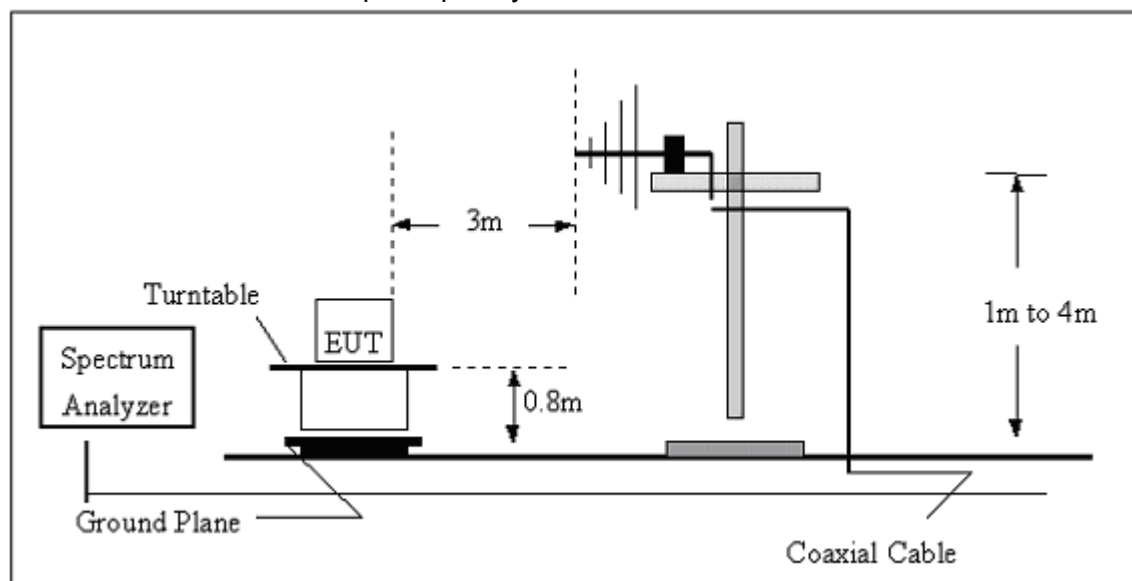
No deviation

3.2.4 TEST SETUP

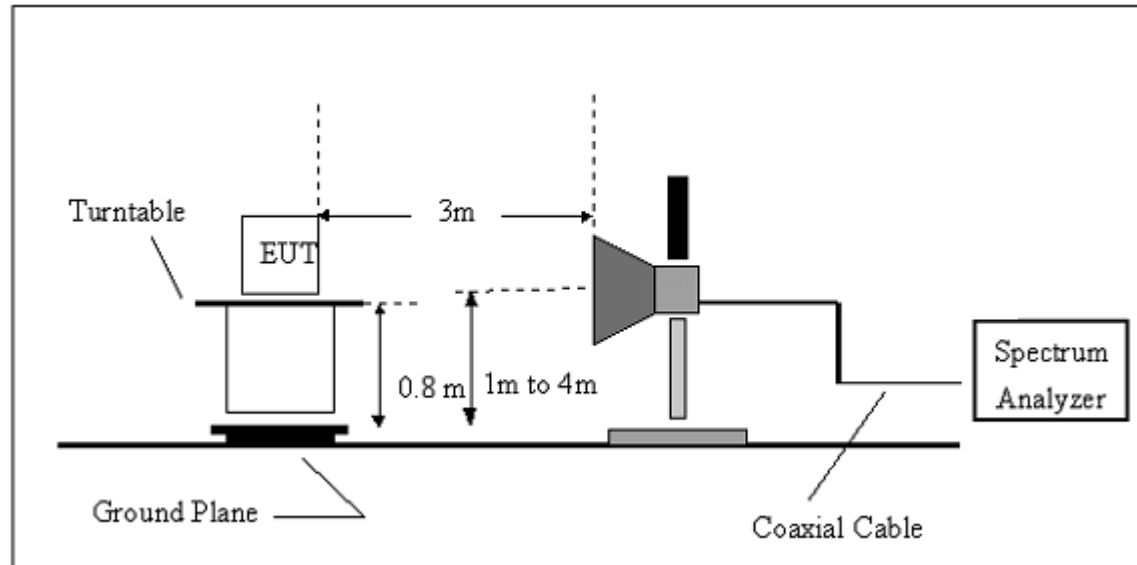
(A) Radiated Emission Test-Up Frequency Below 30MHz



(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



(C) Radiated Emission Test-Up Frequency Above 1GHz

**3.2.5 EUT OPERATING CONDITIONS**

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

3.2.6 TEST RESULTS (BETWEEN 9KHZ – 30 MHZ)

EUT:	300Mbps Dual Band Wireless N USB Adapter	Model Name. :	JWL-D572R
Temperature:	20 °C	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 5.0V
Test Mode :	Mode 6	Polarization :	--

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
--	--	--	--	--
--	--	--	--	--

NOTE:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor = $40 \log (\text{specific distance/test distance})(\text{dB})$;

Limit line = specific limits(dBuv) + distance extrapolation factor.

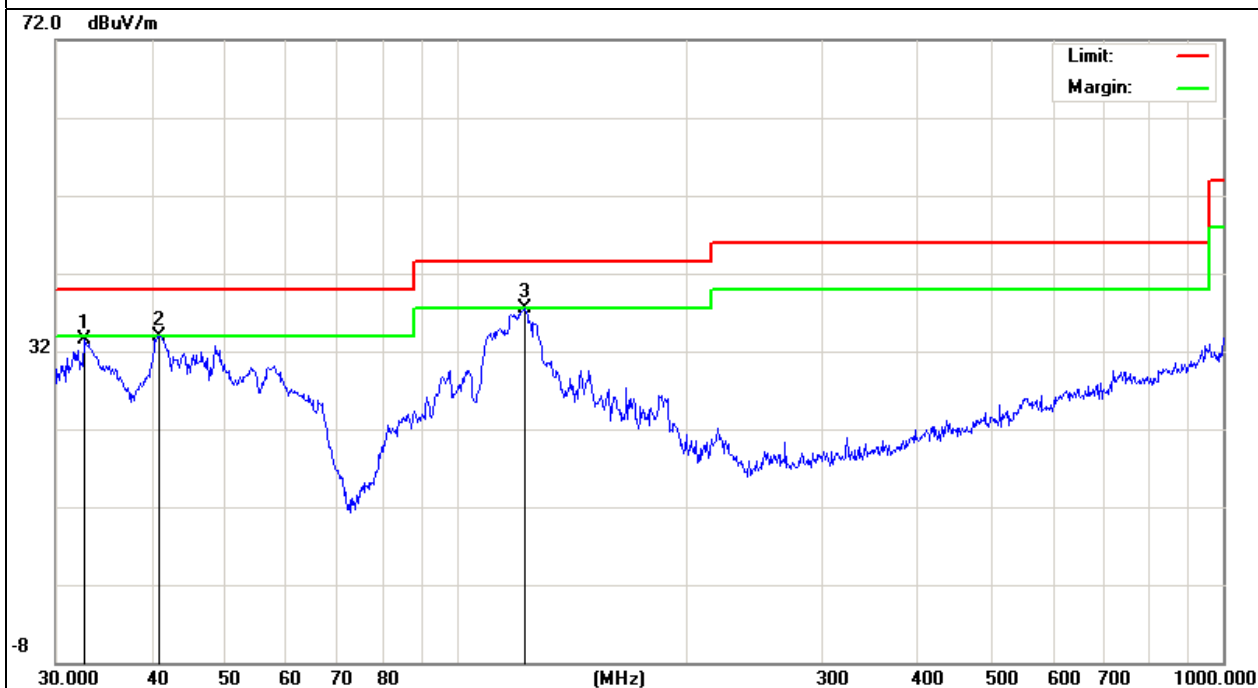
3.2.7 TEST RESULTS (BETWEEN 30MHZ – 1GHZ)

EUT :	300Mbps Dual Band Wireless N USB Adapter	Model Name :	JWL-D572R
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5.0V
Test Mode :	Mode 6	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
32.634	16.89	16.65	33.54	40	-6.46	QP
40.8444	21.56	12.44	34	40	-6	QP
122.834	26.17	11.26	37.43	43.5	-6.07	QP

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

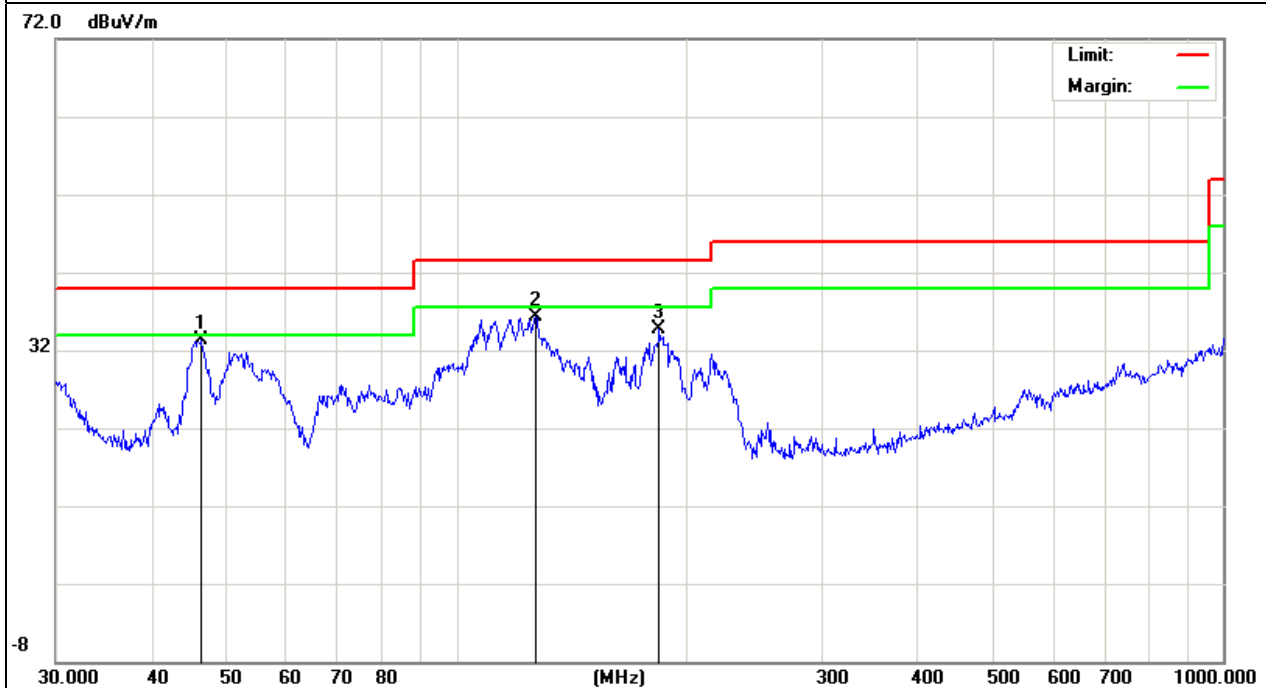


EUT :	300Mbps Dual Band Wireless N USB Adapter	Model Name :	JWL-D572R
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5.0V
Test Mode :	Mode 6	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
46.503	23.84	9.45	33.29	40	-6.71	peak
126.7723	25.06	11.29	36.35	43.5	-7.15	peak
183.844	26.02	8.59	34.61	43.5	-8.89	peak

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.



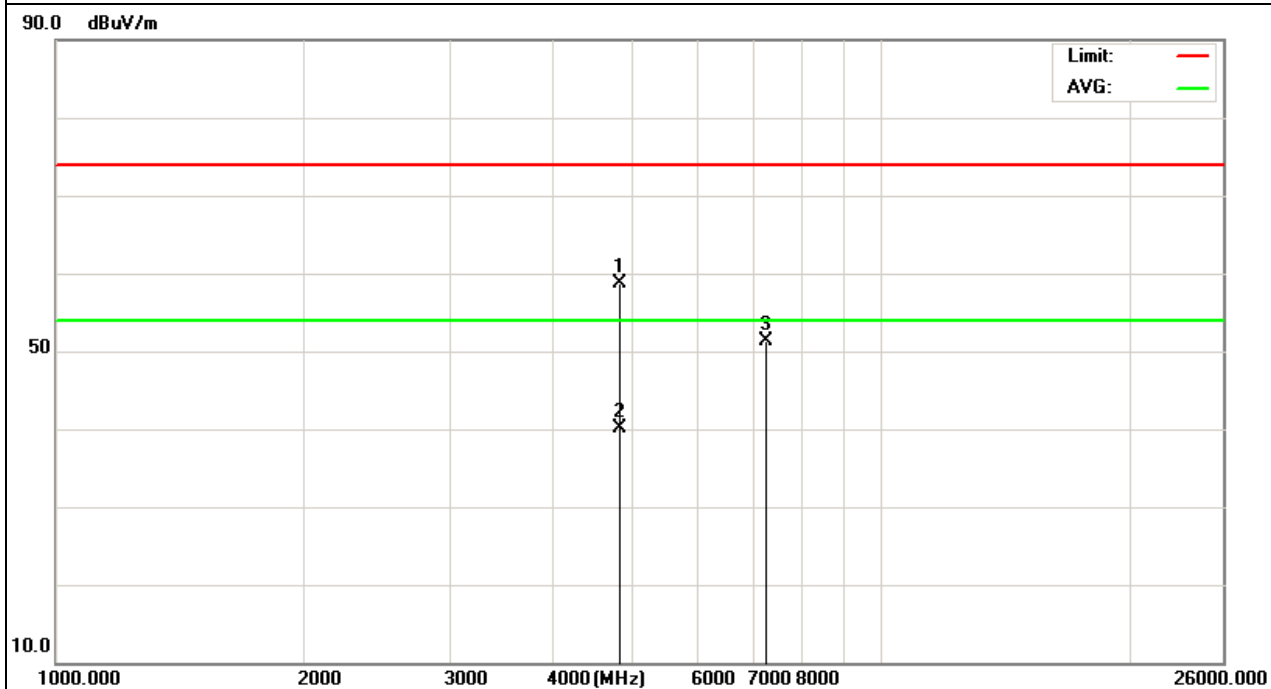
3.2.8 TEST RESULTS (ABOVE 1000 MHZ)

EUT :	300Mbps Dual Band Wireless N USB Adapter	Model Name :	JWL-D572R
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5.0V
Test Mode :	CH1 (802.11b Mode)/2412	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4824.248	48.26	10.44	58.7	74	-15.3	peak
4824.248	29.75	10.44	40.19	54	-13.81	AVG
7236.165	39.01	12.39	51.4	74	-22.6	peak

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

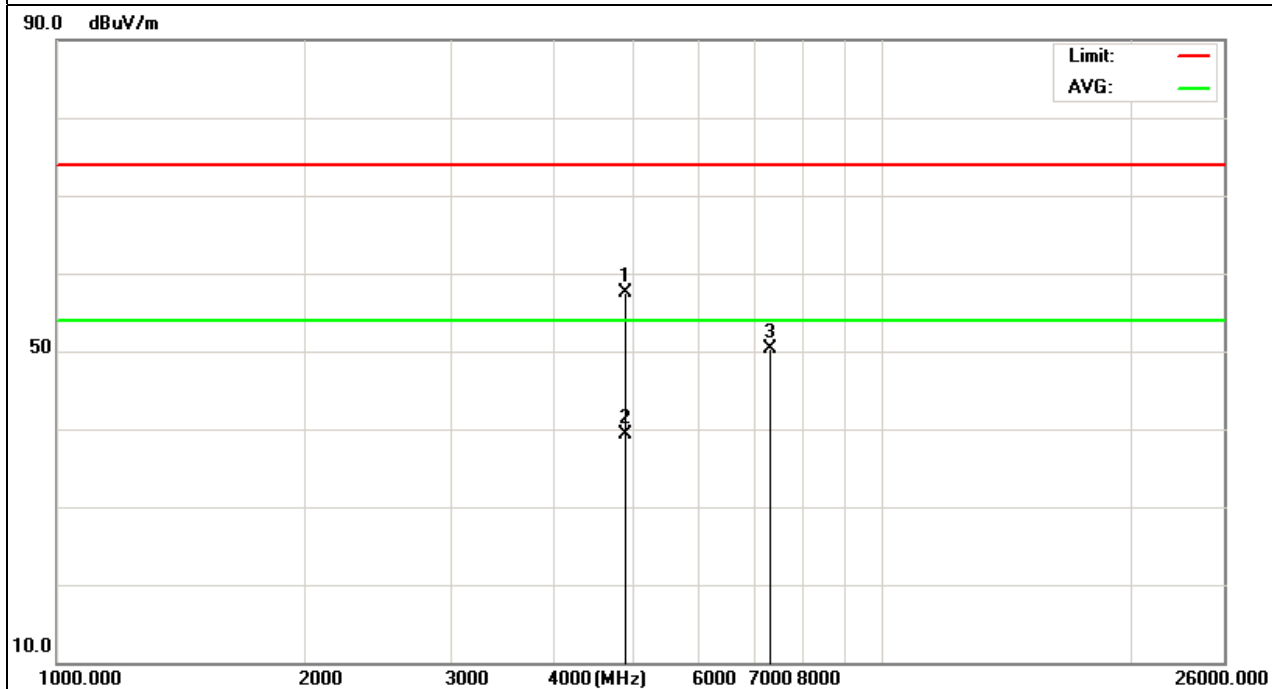


EUT :	300Mbps Dual Band Wireless N USB Adapter	Model Name :	JWL-D572R
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5.0V
Test Mode :	CH1 (802.11b Mode)/2412	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4874.065	47.03	10.4	57.43	74	-16.57	peak
4874.065	28.81	10.4	39.21	54	-14.79	AVG
7311.194	37.63	12.75	50.38	74	-23.62	peak

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

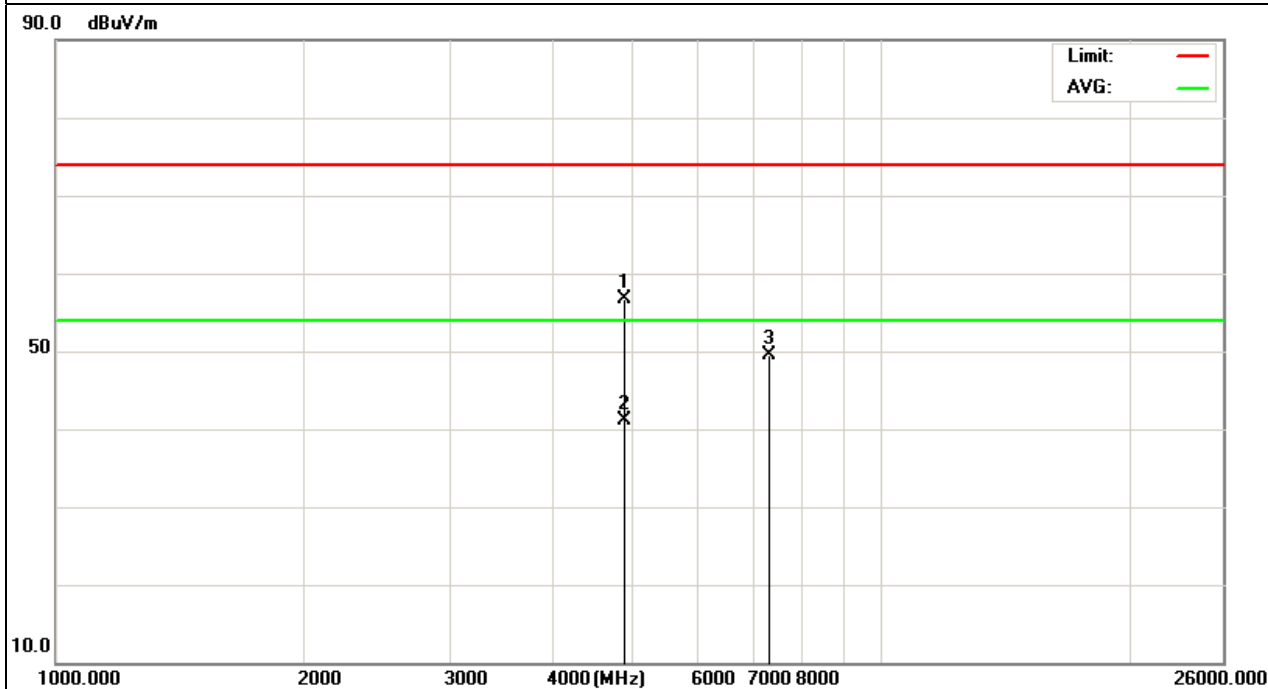


EUT :	300Mbps Dual Band Wireless N USB Adapter	Model Name :	JWL-D572R
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5.0V
Test Mode :	CH6 (802.11b Mode)/2437	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4874.149	46.26	10.4	56.66	74	-17.34	peak
4874.149	30.65	10.4	41.05	54	-12.95	AVG
7311.127	36.77	12.75	49.52	74	-24.48	peak

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

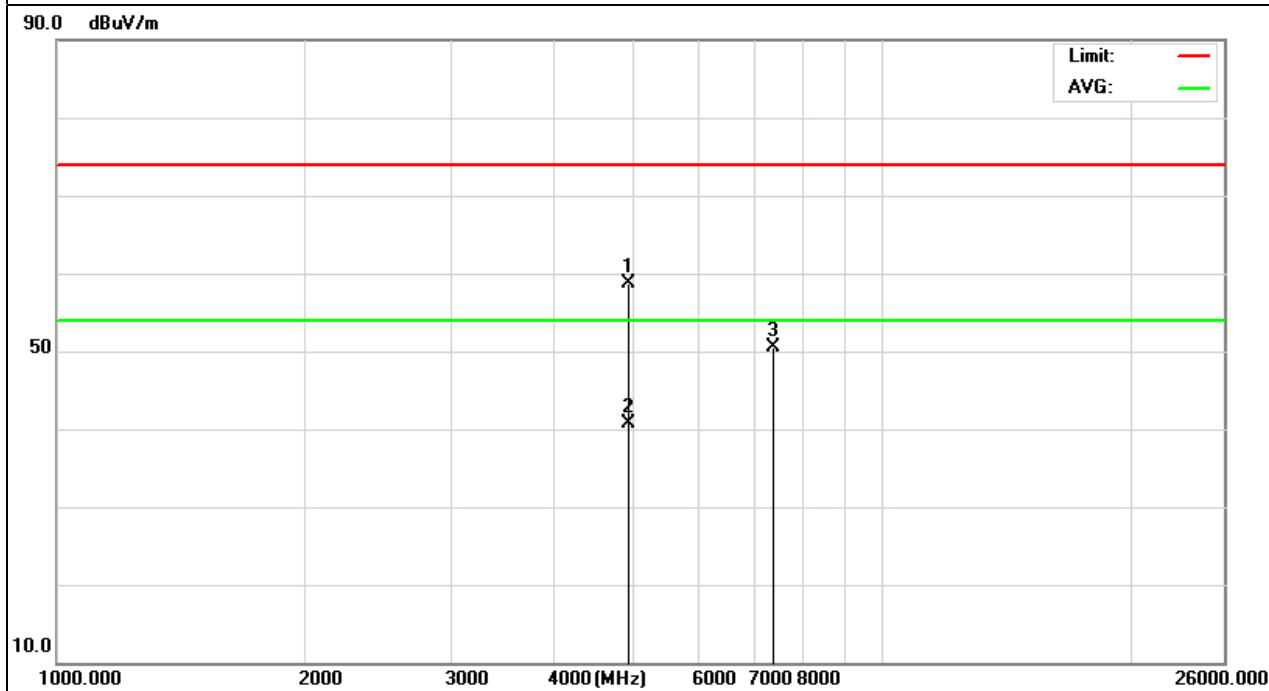


EUT :	300Mbps Dual Band Wireless N USB Adapter	Model Name :	JWL-D572R
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5.0V
Test Mode :	CH6 (802.11b Mode)/2437	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4924.19	48.34	10.39	58.73	74	-15.27	peak
4934.19	30.19	10.44	40.63	54	-13.37	AVG
7386.256	37.79	12.68	50.47	74	-23.53	peak

Remark:

- Factor = Antenna Factor + Cable Loss – Pre-amplifier.
- No emission detected above 18GHz

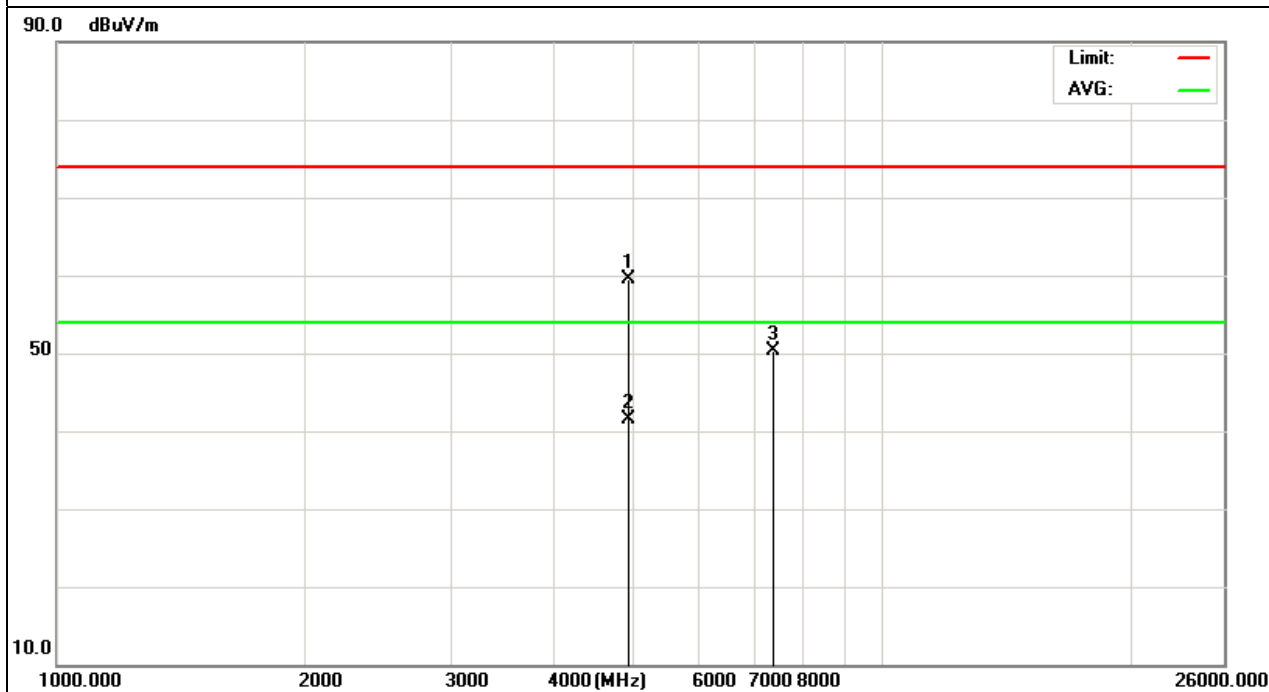


EUT :	300Mbps Dual Band Wireless N USB Adapter	Model Name :	JWL-D572R
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5.0V
Test Mode :	CH11 (802.11b Mode)/2462	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4924.115	49.08	10.39	59.47	74	-14.53	peak
4924.115	31.2	10.39	41.59	54	-12.41	AVG
7386.145	37.68	12.68	50.36	74	-23.64	peak

Remark:

- Factor = Antenna Factor + Cable Loss – Pre-amplifier.
- No emission detected above 18GHz

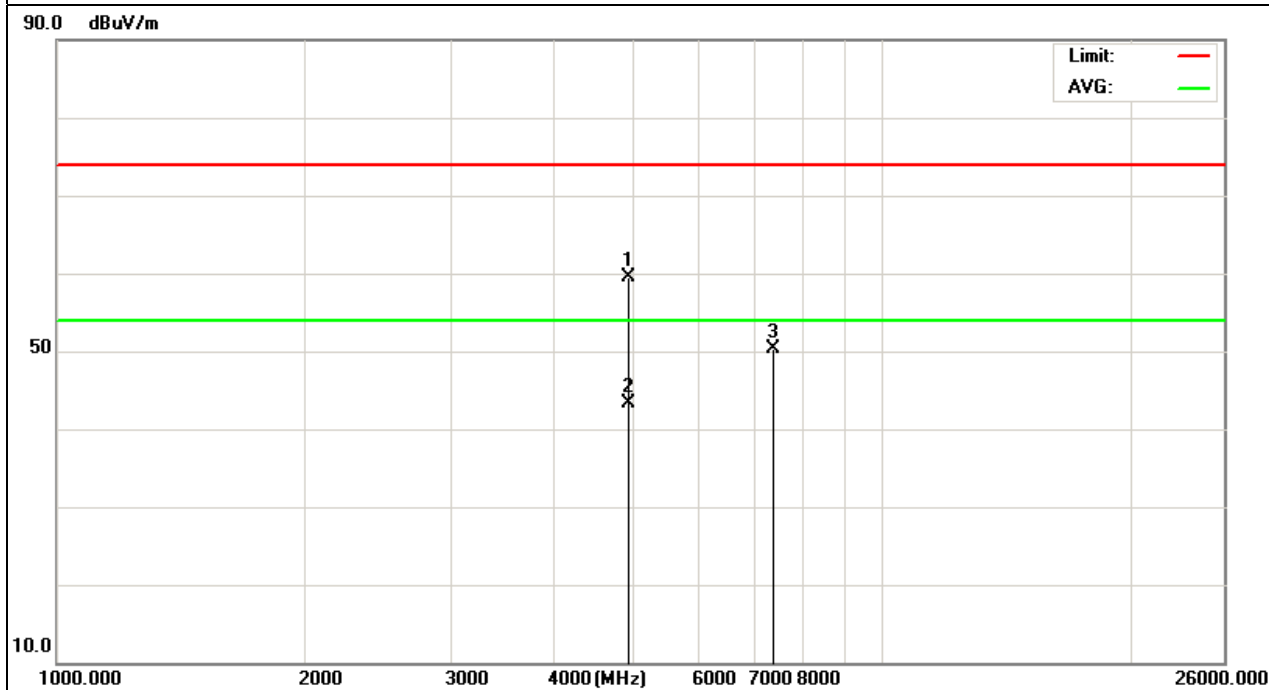


EUT :	300Mbps Dual Band Wireless N USB Adapter	Model Name :	JWL-D572R
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5.0V
Test Mode :	CH11 (802.11b Mode)/2462	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4924.227	49.13	10.39	59.52	74	-14.48	peak
4924.227	33.01	10.39	43.4	54	-10.6	AVG
7386.169	37.55	12.68	50.23	74	-23.77	peak

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

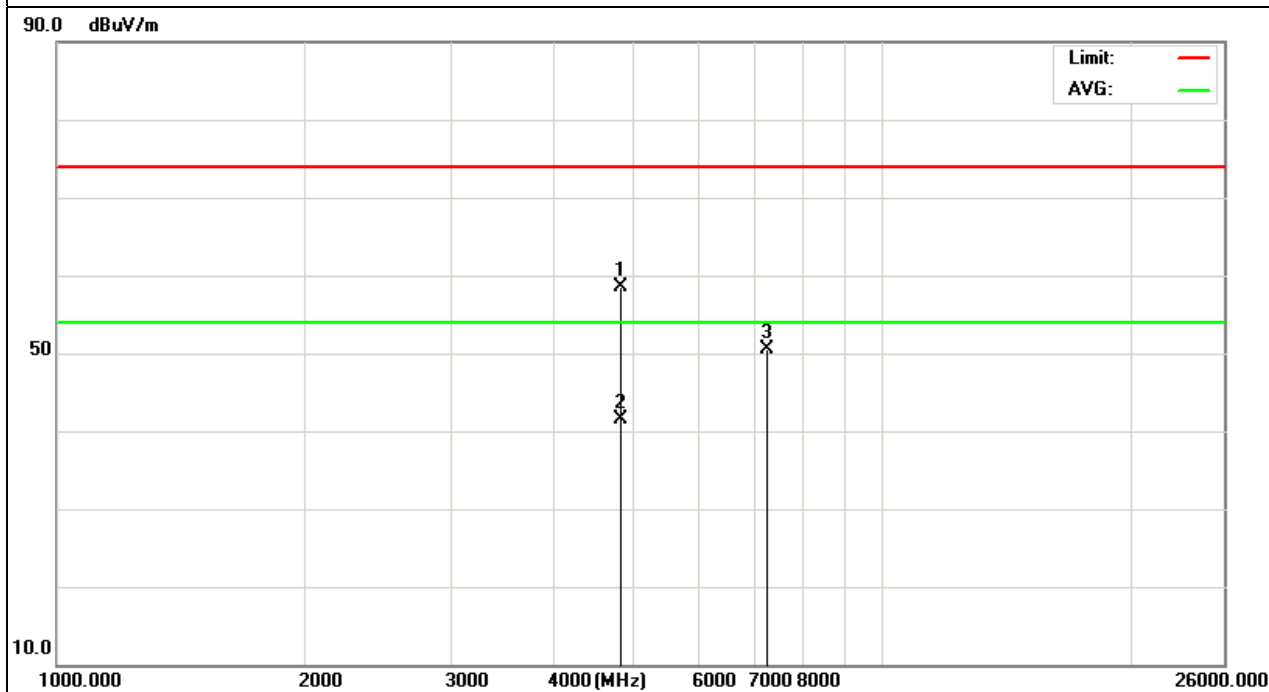


EUT :	300Mbps Dual Band Wireless N USB Adapter	Model Name :	JWL-D572R
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5.0V
Test Mode :	CH1 (802.11g Mode)/2412	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4824.049	48.1	10.44	58.54	74	-15.46	peak
4824.049	31.13	10.44	41.57	54	-12.43	AVG
7236.172	38.04	12.39	50.43	74	-23.57	peak

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

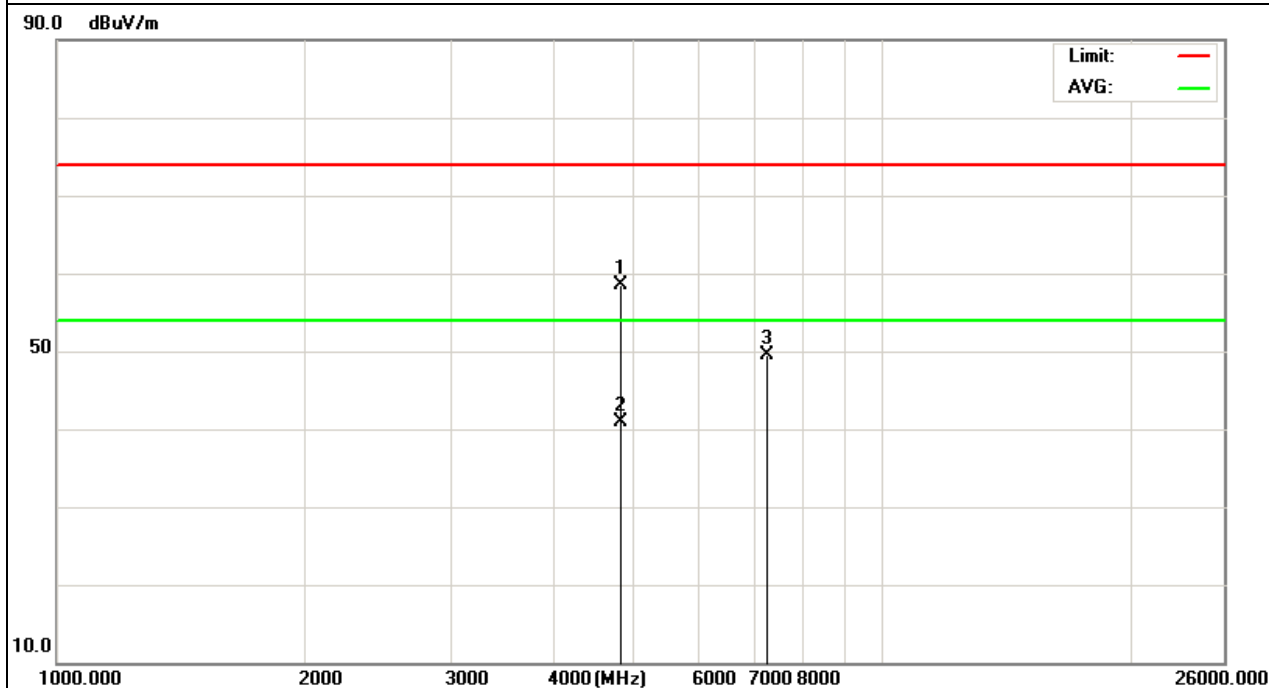


EUT :	300Mbps Dual Band Wireless N USB Adapter	Model Name :	JWL-D572R
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5.0V
Test Mode :	CH1 (802.11g Mode)/2412	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4824.121	48.16	10.44	58.6	74	-15.4	peak
4824.121	30.49	10.44	40.93	54	-13.07	AVG
7236.172	37.2	12.39	49.59	74	-24.41	peak

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

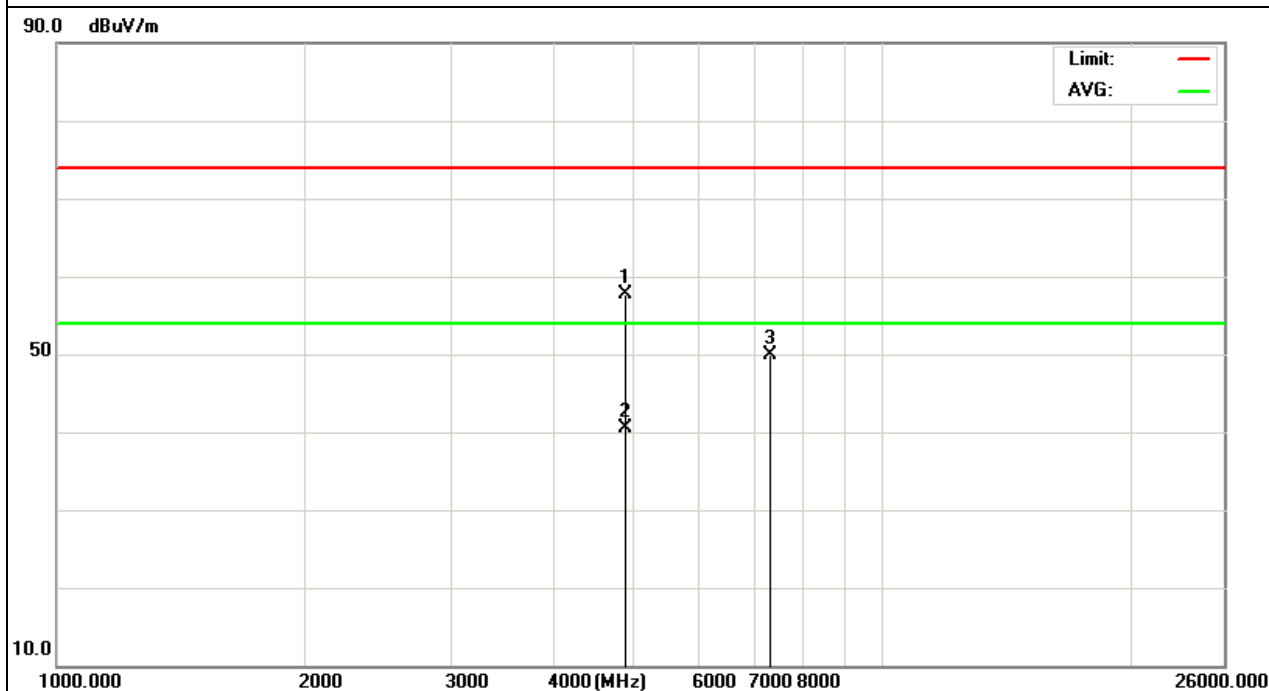


EUT :	300Mbps Dual Band Wireless N USB Adapter	Model Name :	JWL-D572R
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5.0V
Test Mode :	CH6 (802.11g Mode)/2437	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4874.151	47.39	10.4	57.79	74	-16.21	peak
4874.151	30.08	10.4	40.48	54	-13.52	AVG
7311.196	37.13	12.75	49.88	74	-24.12	peak

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

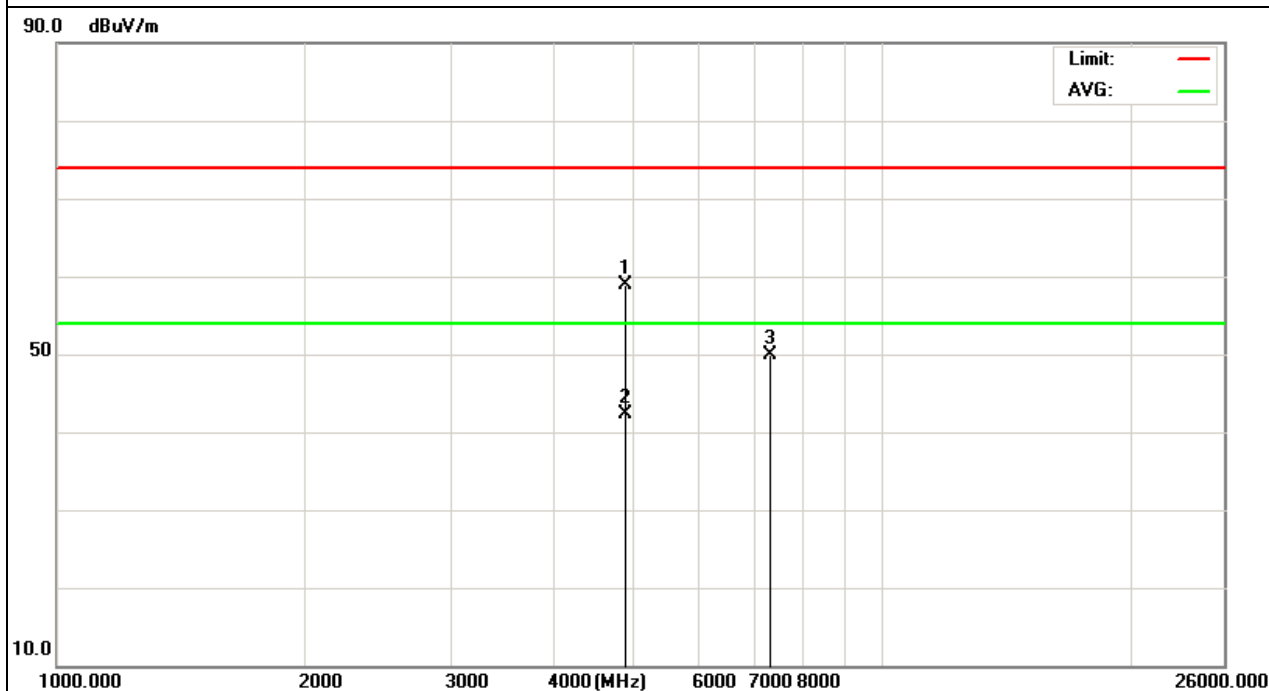


EUT :	300Mbps Dual Band Wireless N USB Adapter	Model Name :	JWL-D572R
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5.0V
Test Mode :	CH6 (802.11g Mode)/2437	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4874.163	48.41	10.4	58.81	74	-15.19	peak
4874.163	31.98	10.4	42.38	54	-11.62	AVG
7311.152	37.1	12.75	49.85	74	-24.15	peak

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

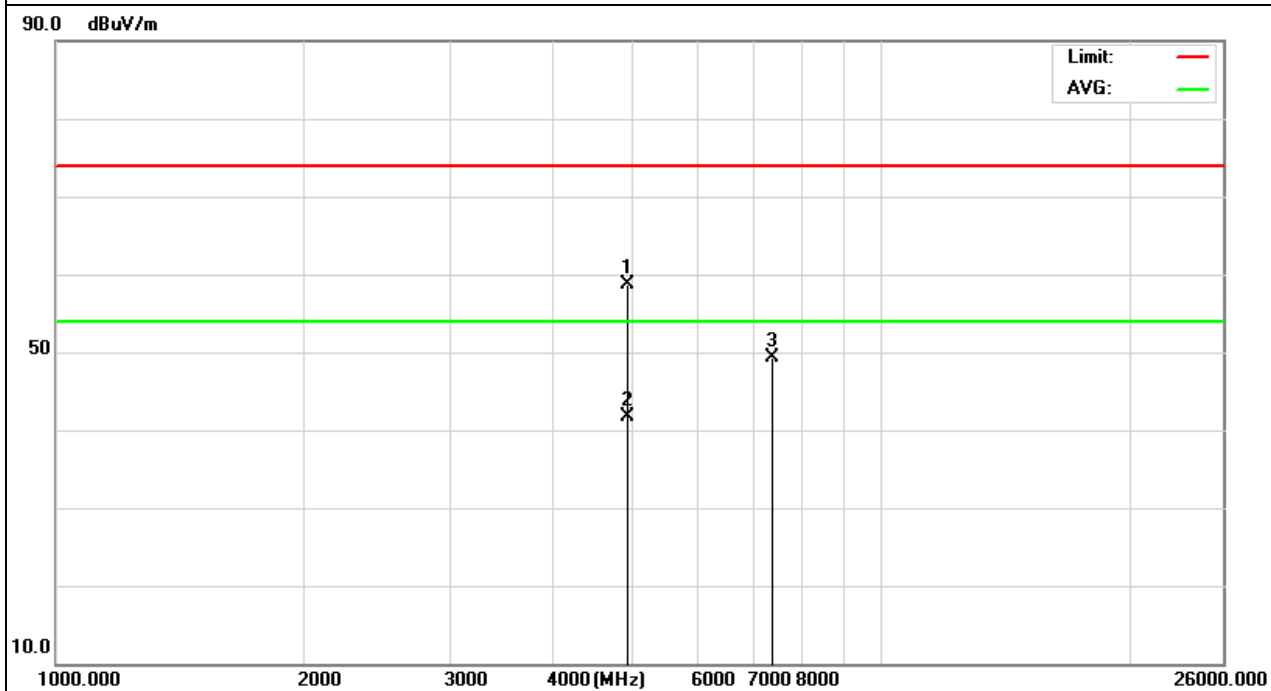


EUT :	300Mbps Dual Band Wireless N USB Adapter	Model Name :	JWL-D572R
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5.0V
Test Mode :	CH11 (802.11g Mode)/2462	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4924.154	48.38	10.39	58.77	74	-15.23	peak
4924.154	31.33	10.39	41.72	54	-12.28	AVG
7386.14	36.61	12.68	49.29	74	-24.71	peak

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

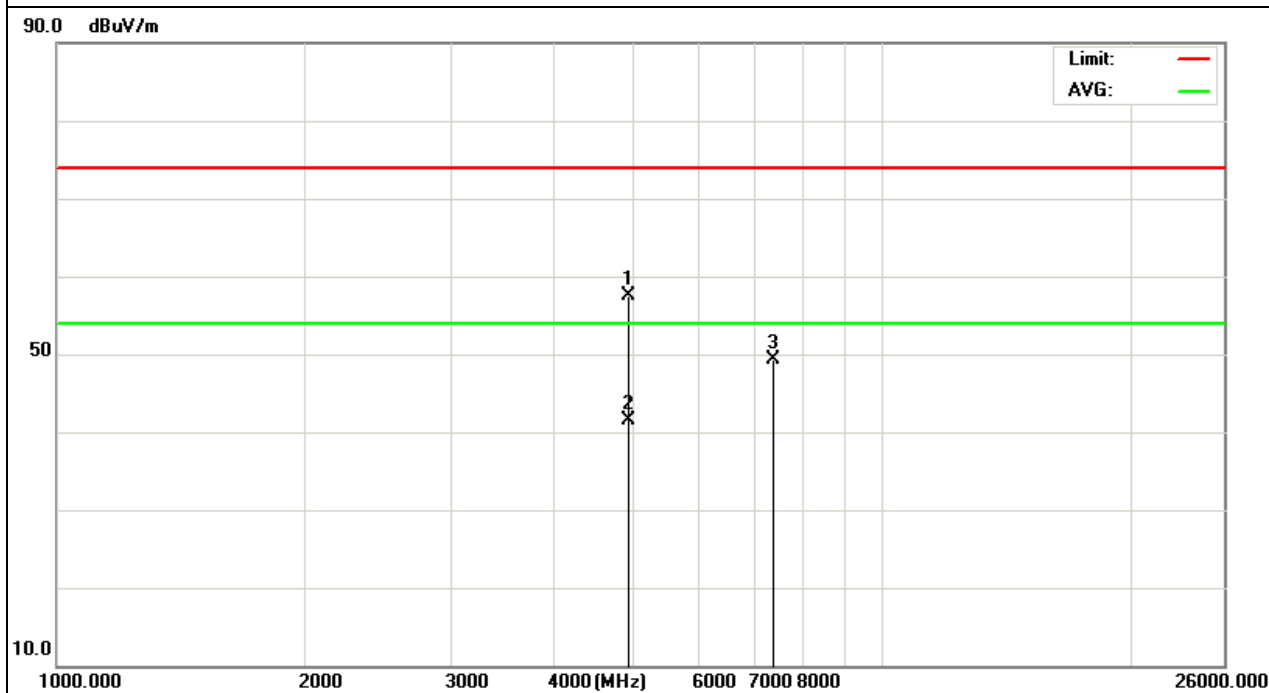


EUT :	300Mbps Dual Band Wireless N USB Adapter	Model Name :	JWL-D572R
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5.0V
Test Mode :	CH11(802.11g Mode)/2462	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4924.175	47.18	10.39	57.57	74	-16.43	peak
4924.175	31.1	10.39	41.49	54	-12.51	AVG
7386.146	36.69	12.68	49.37	74	-24.63	peak

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

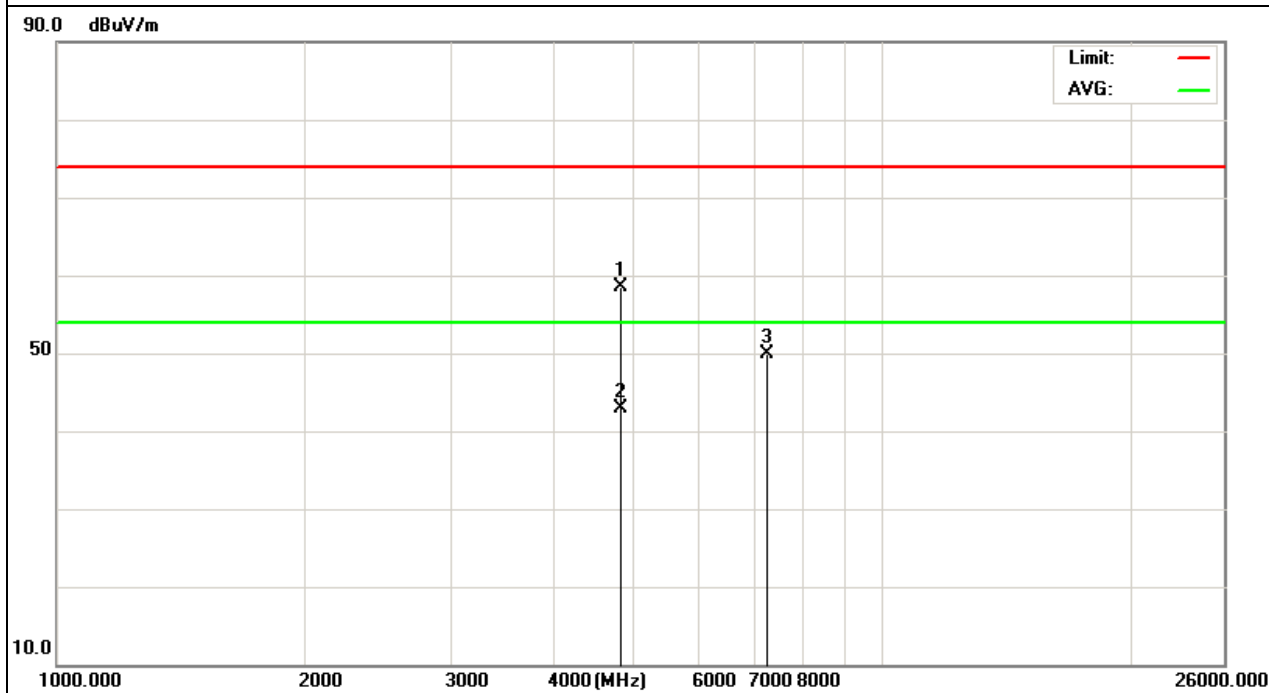


EUT :	300Mbps Dual Band Wireless N USB Adapter	Model Name :	JWL-D572R
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5.0V
Test Mode :	CH1(802.11n Mode)/20MHz	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4824.144	48.16	10.44	58.6	74	-15.4	peak
4824.144	32.37	10.44	42.81	54	-11.19	AVG
7236.162	37.54	12.39	49.93	74	-24.07	peak

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

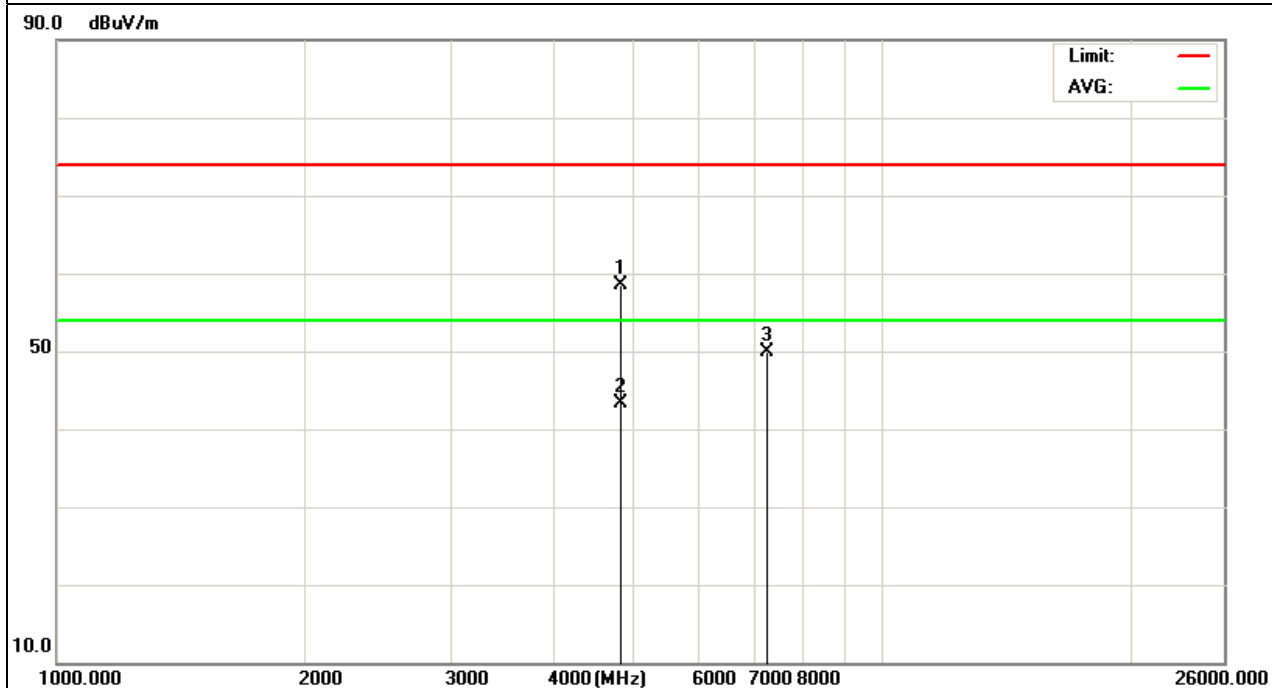


EUT :	300Mbps Dual Band Wireless N USB Adapter	Model Name :	JWL-D572R
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5.0V
Test Mode :	CH1(802.11n Mode)/20MHz	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4824.145	47.98	10.44	58.42	74	-15.58	peak
4824.145	32.79	10.44	43.23	54	-10.77	AVG
7236.16	37.53	12.39	49.92	74	-24.08	peak

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

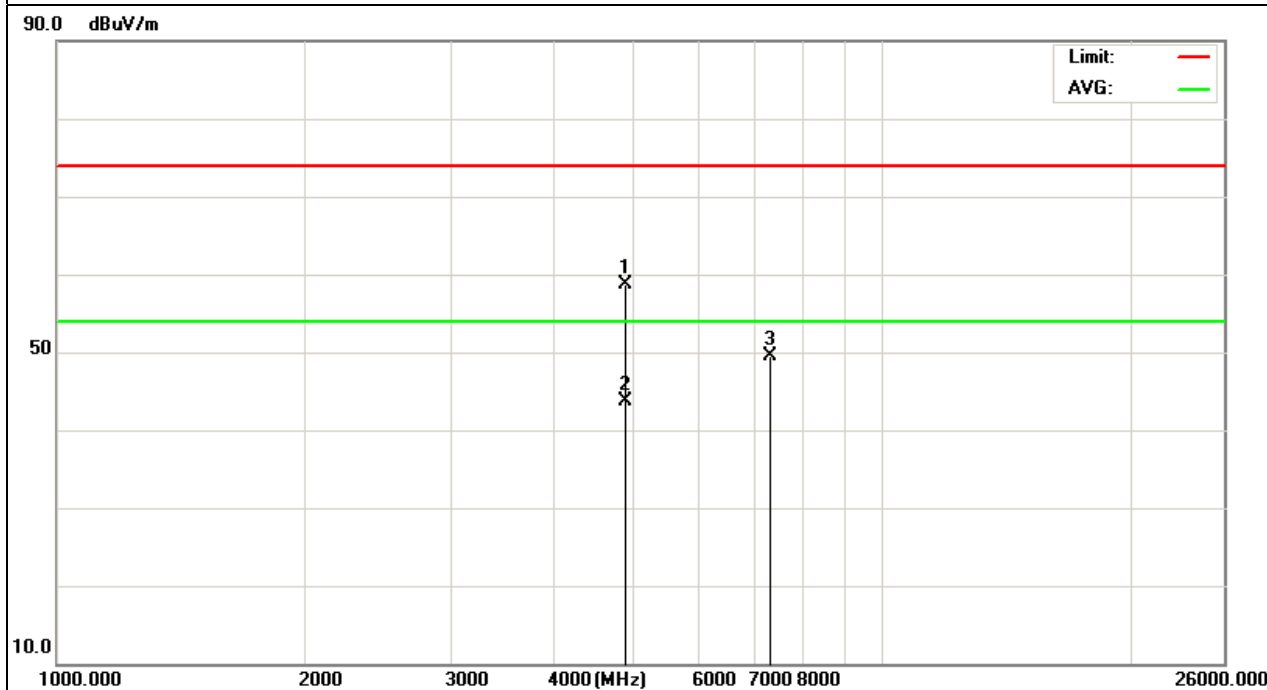


EUT :	300Mbps Dual Band Wireless N USB Adapter	Model Name :	JWL-D572R
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5.0V
Test Mode :	CH6(802.11n Mode)/20MHz	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4874.163	48.3	10.4	58.7	74	-15.3	peak
4874.163	33.32	10.4	43.72	54	-10.28	AVG
7311.148	36.8	12.75	49.55	74	-24.45	peak

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

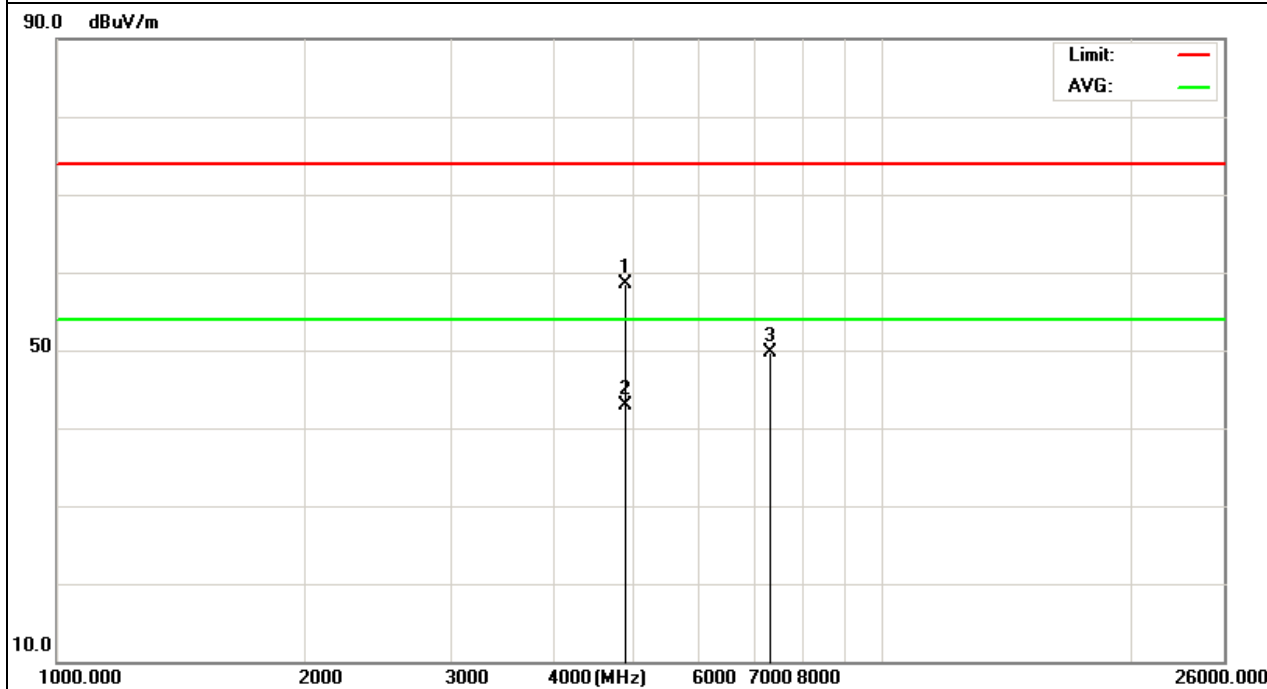


EUT :	300Mbps Dual Band Wireless N USB Adapter	Model Name :	JWL-D572R
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5.0V
Test Mode :	CH6(802.11n Mode)/20MHz	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4874.17	48.13	10.4	58.53	74	-15.47	peak
4874.17	32.42	10.4	42.82	54	-11.18	AVG
7311.186	36.95	12.75	49.7	74	-24.3	peak

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

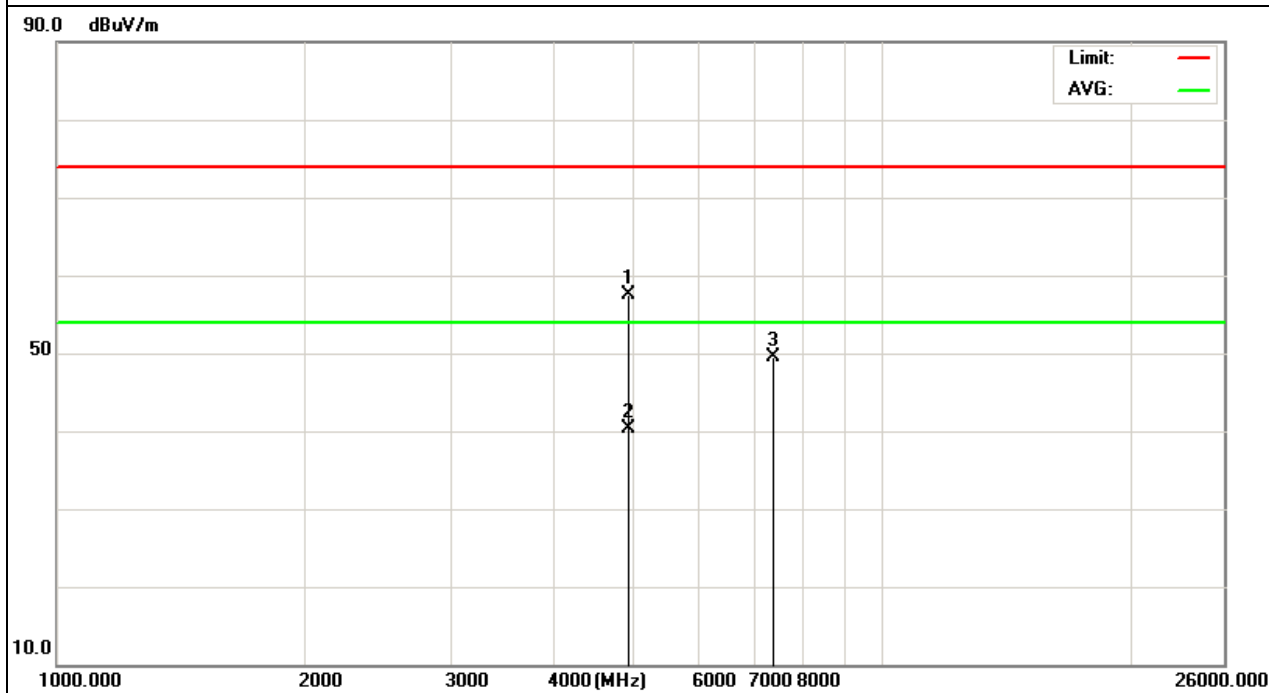


EUT :	300Mbps Dual Band Wireless N USB Adapter	Model Name :	JWL-D572R
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5.0V
Test Mode :	CH11(802.11n Mode)/20MHz	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4924.074	47.21	10.39	57.6	74	-16.4	peak
4924.074	29.99	10.39	40.38	54	-13.62	AVG
7386.165	36.81	12.68	49.49	74	-24.51	peak

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

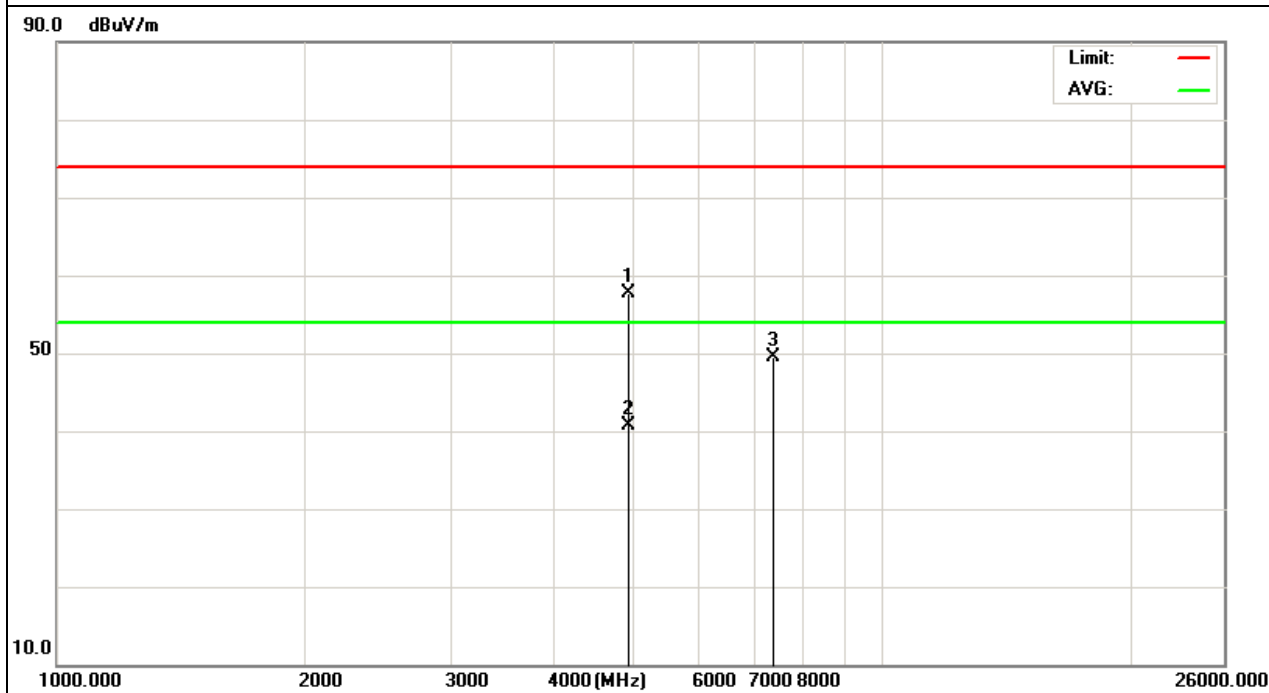


EUT :	300Mbps Dual Band Wireless N USB Adapter	Model Name :	JWL-D572R
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5.0V
Test Mode :	CH11(802.11n Mode)/20MHz	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4924.155	47.25	10.39	57.64	74	-16.36	peak
4924.155	30.28	10.39	40.67	54	-13.33	AVG
7386.175	36.76	12.68	49.44	74	-24.56	peak

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

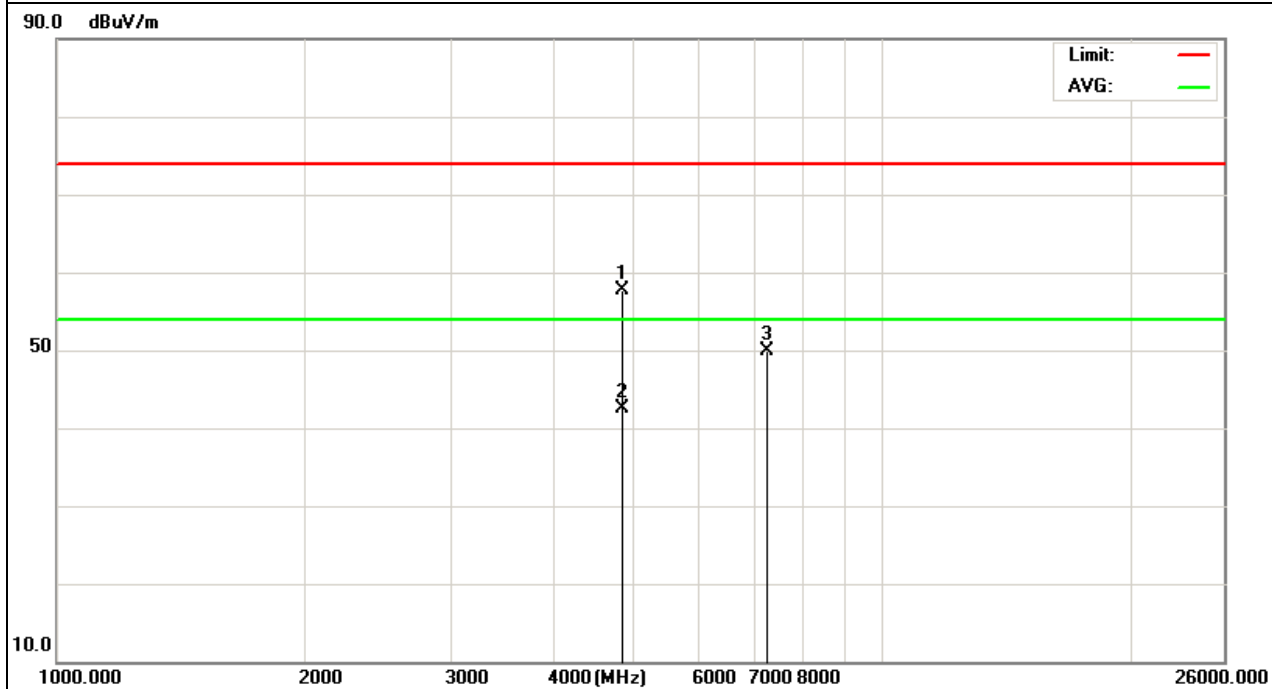


EUT :	300Mbps Dual Band Wireless N USB Adapter	Model Name :	JWL-D572R
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5.0V
Test Mode :	CH3(802.11n Mode)/40MHz	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4844.203	47.15	10.5	57.65	74	-16.35	peak
4844.203	32	10.5	42.5	54	-11.5	AVG
7266.353	37.31	12.5	49.81	74	-24.19	peak

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

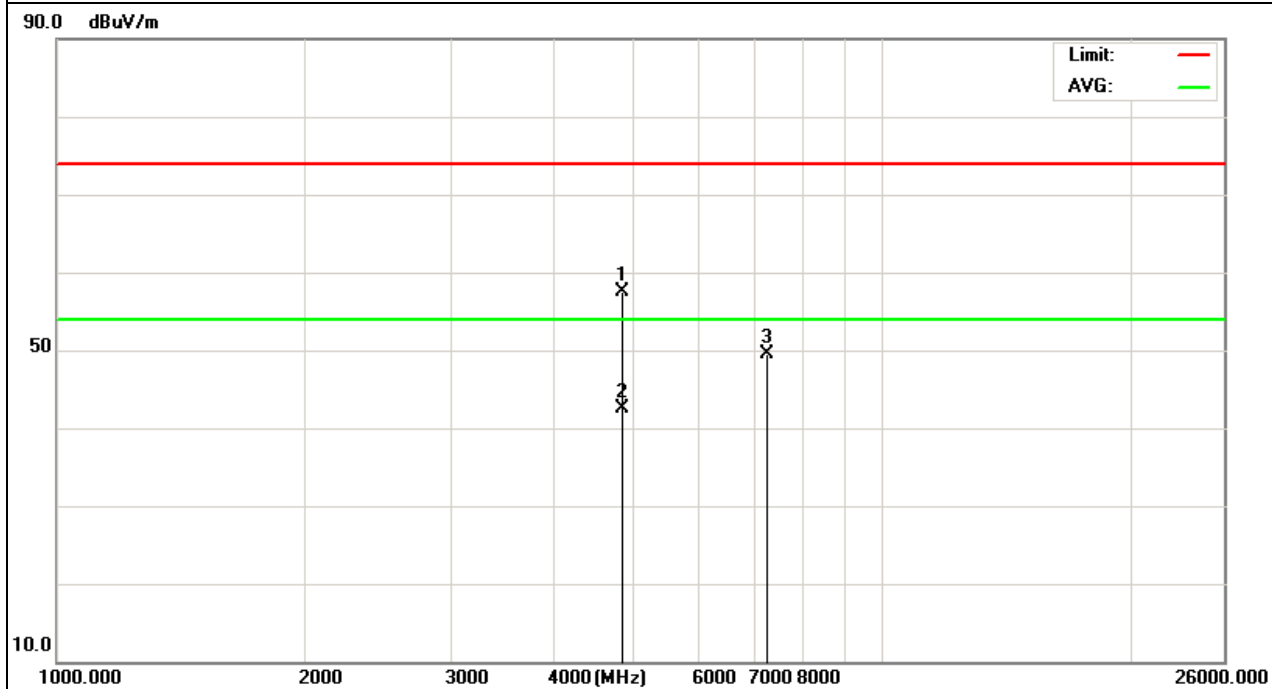


EUT :	300Mbps Dual Band Wireless N USB Adapter	Model Name :	JWL-D572R
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5.0V
Test Mode :	CH3(802.11n Mode)/40MHz	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4844.328	47.06	10.5	57.56	74	-16.44	peak
4844.328	31.96	10.5	42.46	54	-11.54	AVG
7266.284	36.96	12.5	49.46	74	-24.54	peak

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

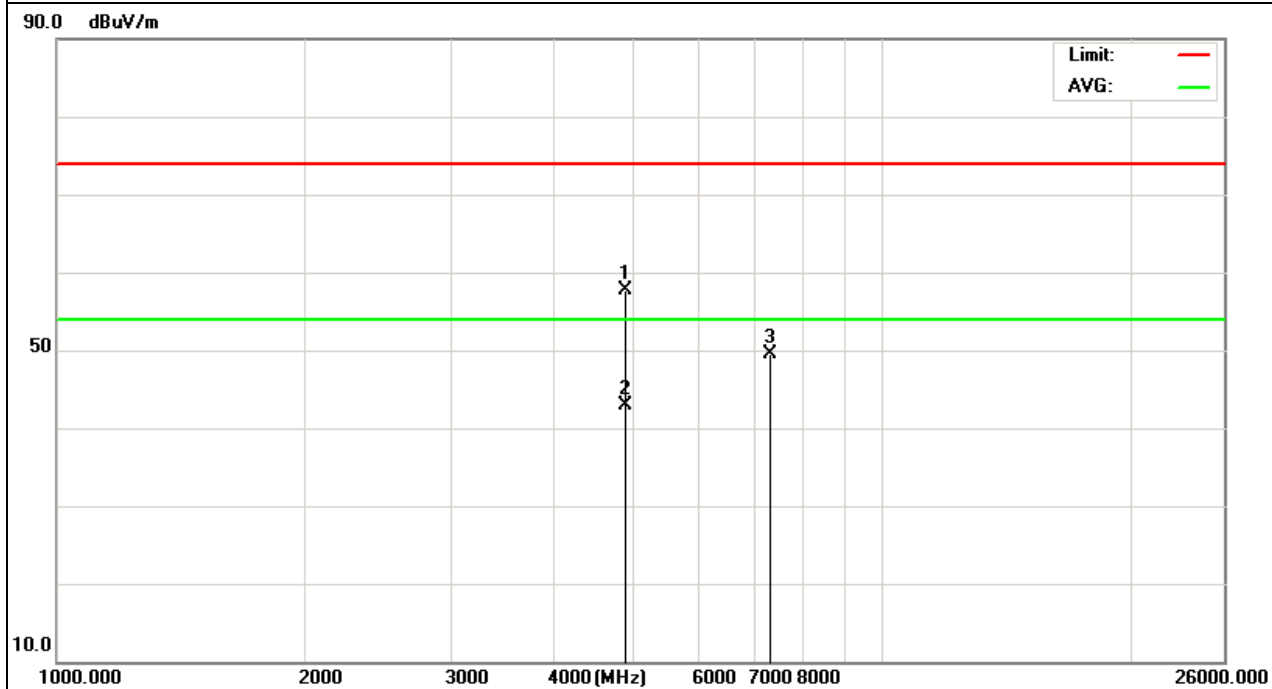


EUT :	300Mbps Dual Band Wireless N USB Adapter	Model Name :	JWL-D572R
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5.0V
Test Mode :	CH6(802.11n Mode)/40MHz	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4874.257	47.29	10.4	57.69	74	-16.31	peak
4874.257	32.45	10.4	42.85	54	-11.15	AVG
7311.182	36.83	12.75	49.58	74	-24.42	peak

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

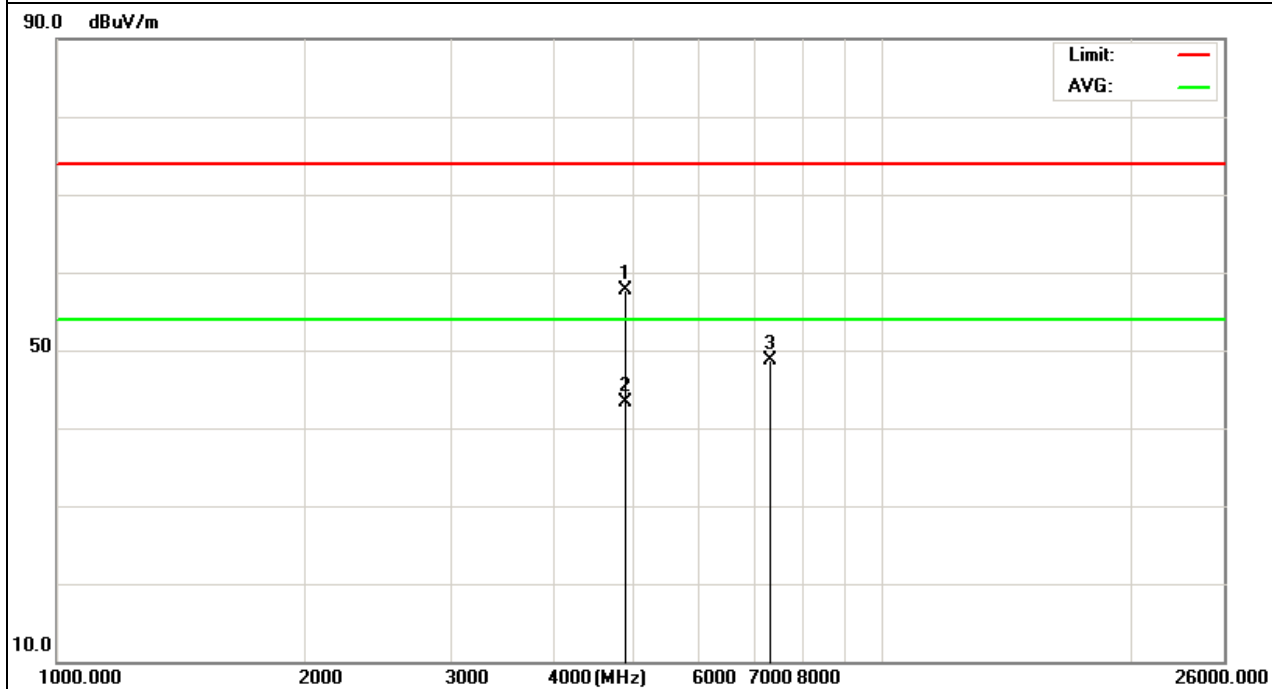


EUT :	300Mbps Dual Band Wireless N USB Adapter	Model Name :	JWL-D572R
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5.0V
Test Mode :	CH6(802.11n Mode)/40MHz	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4874.252	47.32	10.4	57.72	74	-16.28	peak
4874.252	32.91	10.4	43.31	54	-10.69	AVG
7311.192	36.04	12.75	48.79	74	-25.21	peak

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

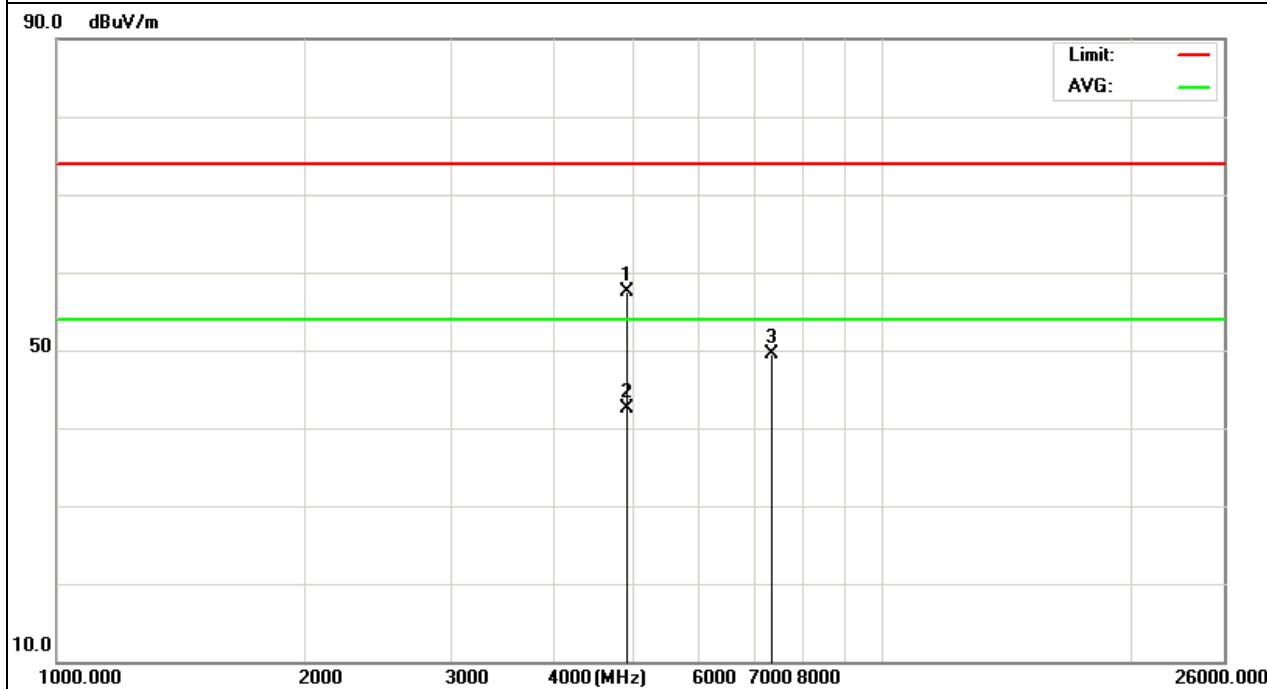


EUT :	300Mbps Dual Band Wireless N USB Adapter	Model Name :	JWL-D572R
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5.0V
Test Mode :	CH9(802.11n Mode)/40MHz	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4904.28	47.28	10.29	57.57	74	-16.43	peak
4904.28	32.3	10.29	42.59	54	-11.41	AVG
7356.144	36.79	12.79	49.58	74	-24.42	peak

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

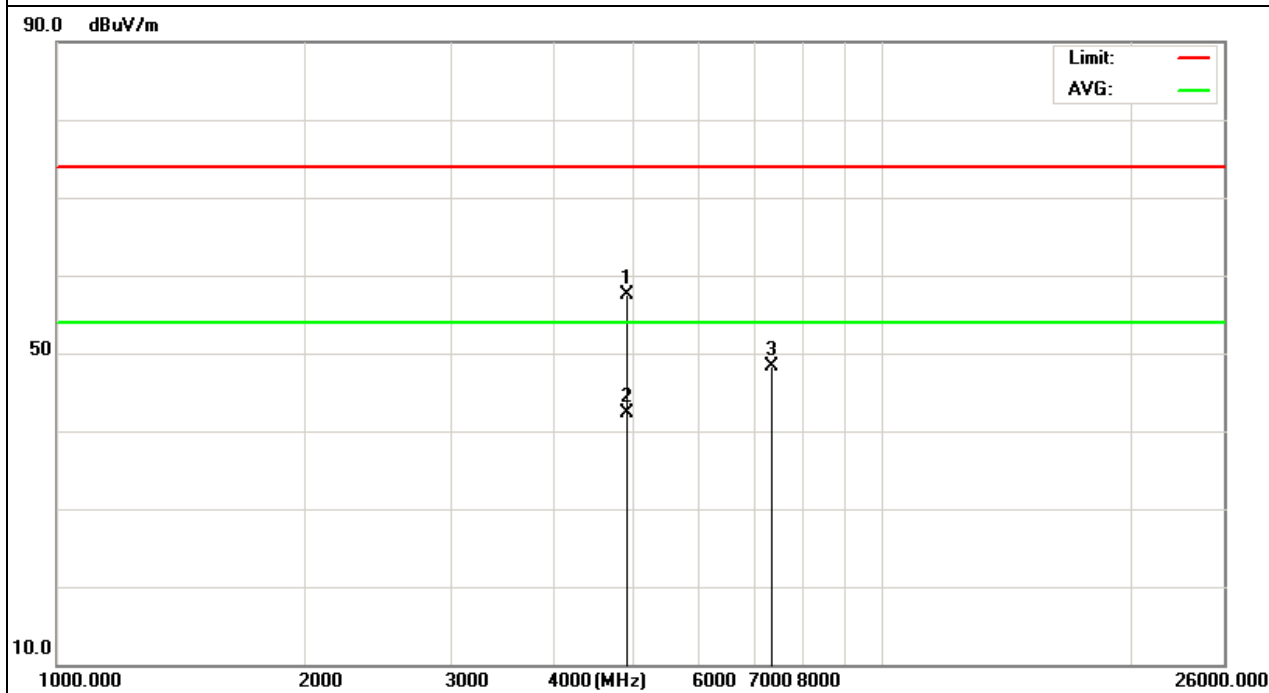


EUT :	300Mbps Dual Band Wireless N USB Adapter	Model Name :	JWL-D572R
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5.0V
Test Mode :	CH9(802.11n Mode)/40MHz	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4904.358	47.23	10.29	57.52	74	-16.48	peak
4904.358	32.1	10.29	42.39	54	-11.61	AVG
7356.274	35.53	12.79	48.32	74	-25.68	peak

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.



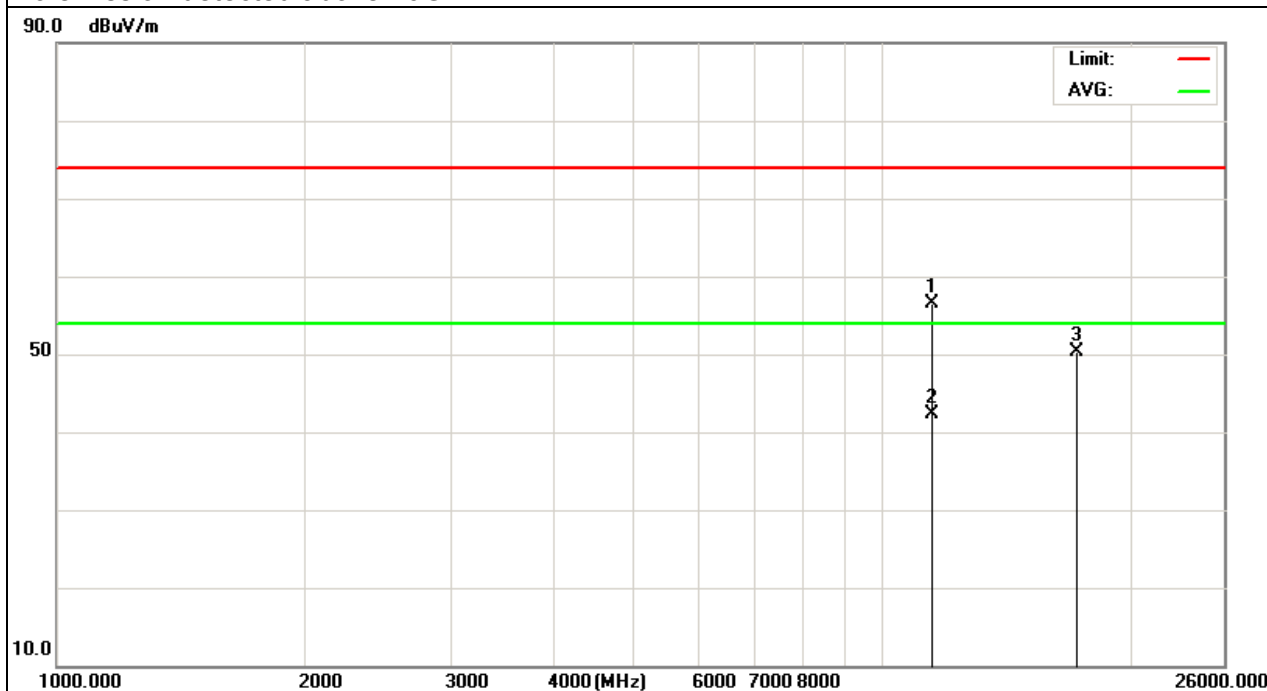
EUT :	300Mbps Dual Band Wireless N USB Adapter	Model Name :	JWL-D572R
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5.0V from PC AC 120V/60Hz
Test Mode :	802.11a/5745MHz	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
11490.058	38.48	18.1	56.58	74	-17.42	peak
11490.058	24.27	18.1	42.37	54	-11.63	AVG
17235.630	18.97	31.36	50.33	74	-23.67	peak

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

No emission detected above 26GHz.



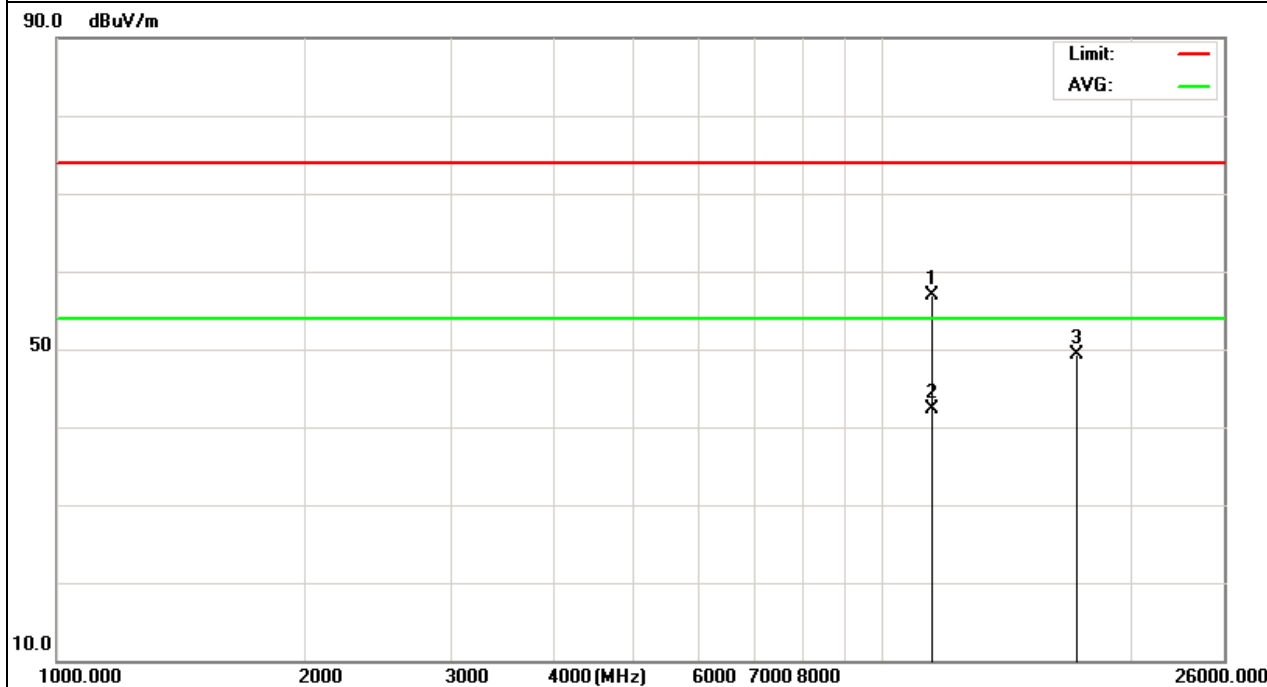
EUT :	300Mbps Dual Band Wireless N USB Adapter	Model Name :	JWL-D572R
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5.0V from PC AC 120V/60Hz
Test Mode :	802.11a/5745MHz	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
11490.074	38.76	18.1	56.86	74	-17.14	peak
11490.074	24.15	18.1	42.25	54	-11.75	AVG
17235.066	18.02	31.36	49.38	74	-24.62	peak

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

No emission detected above 26GHz.



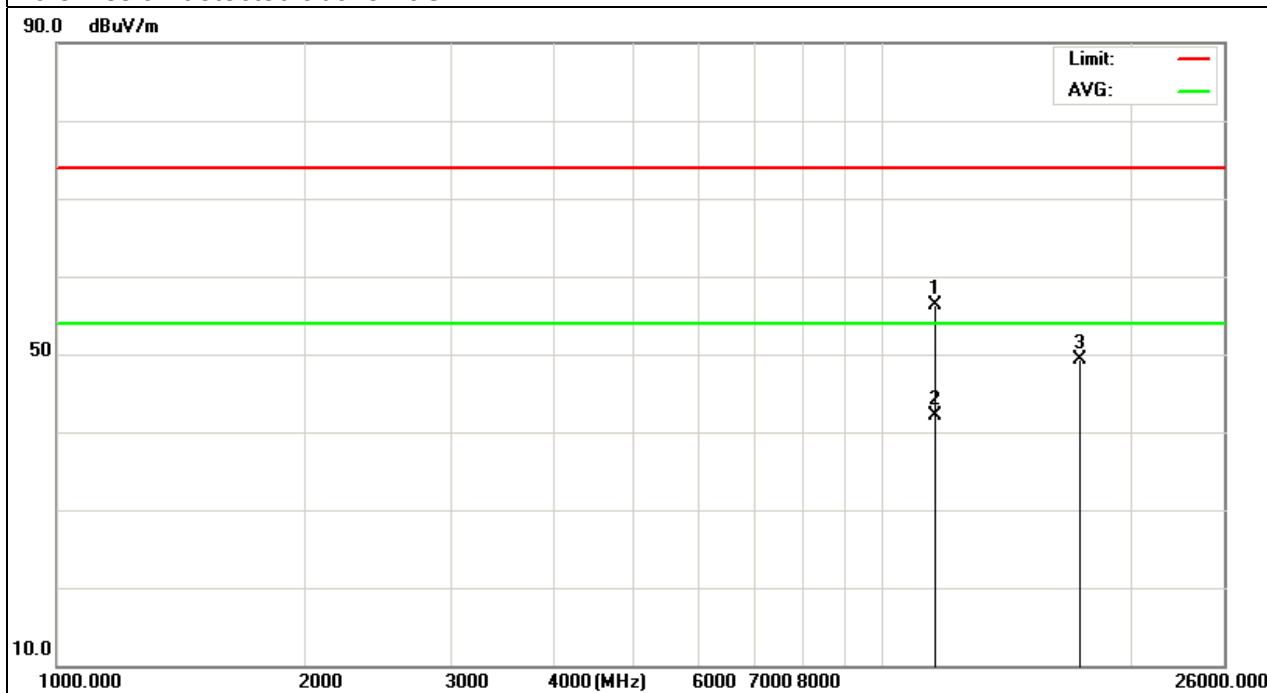
EUT :	300Mbps Dual Band Wireless N USB Adapter	Model Name :	JWL-D572R
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5.0V from PC AC 120V/60Hz
Test Mode :	802.11a/5785MHz	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
11570.168	38.24	18.11	56.35	74	-17.65	peak
11570.168	24	18.11	42.11	54	-11.89	AVG
17355.243	18.42	30.95	49.37	74	-24.63	peak

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

No emission detected above 26GHz.



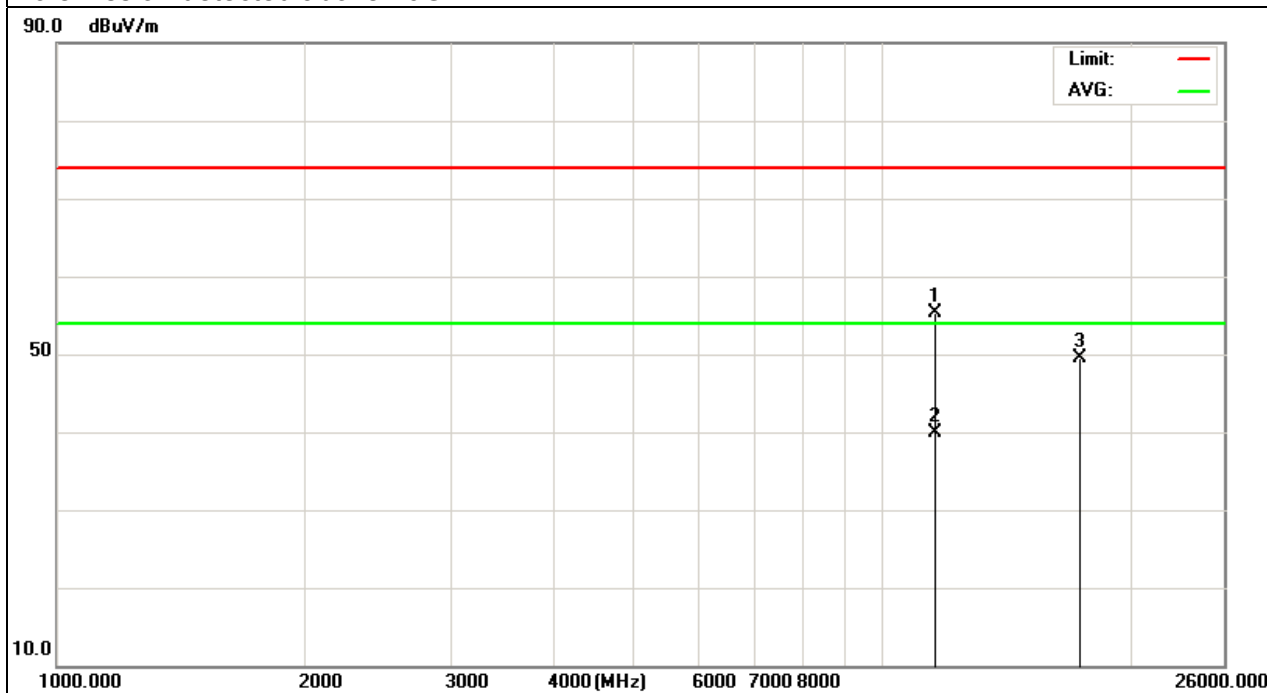
EUT :	300Mbps Dual Band Wireless N USB Adapter	Model Name :	JWL-D572R
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5.0V from PC AC 120V/60Hz
Test Mode :	802.11a/5785MHz	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
11570.043	37.11	18.1	55.21	74	-18.79	
11570.043	21.82	18.1	39.92	54	-14.08	AVG
17355.148	18.6	30.95	49.55	74	-24.45	peak

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

No emission detected above 26GHz



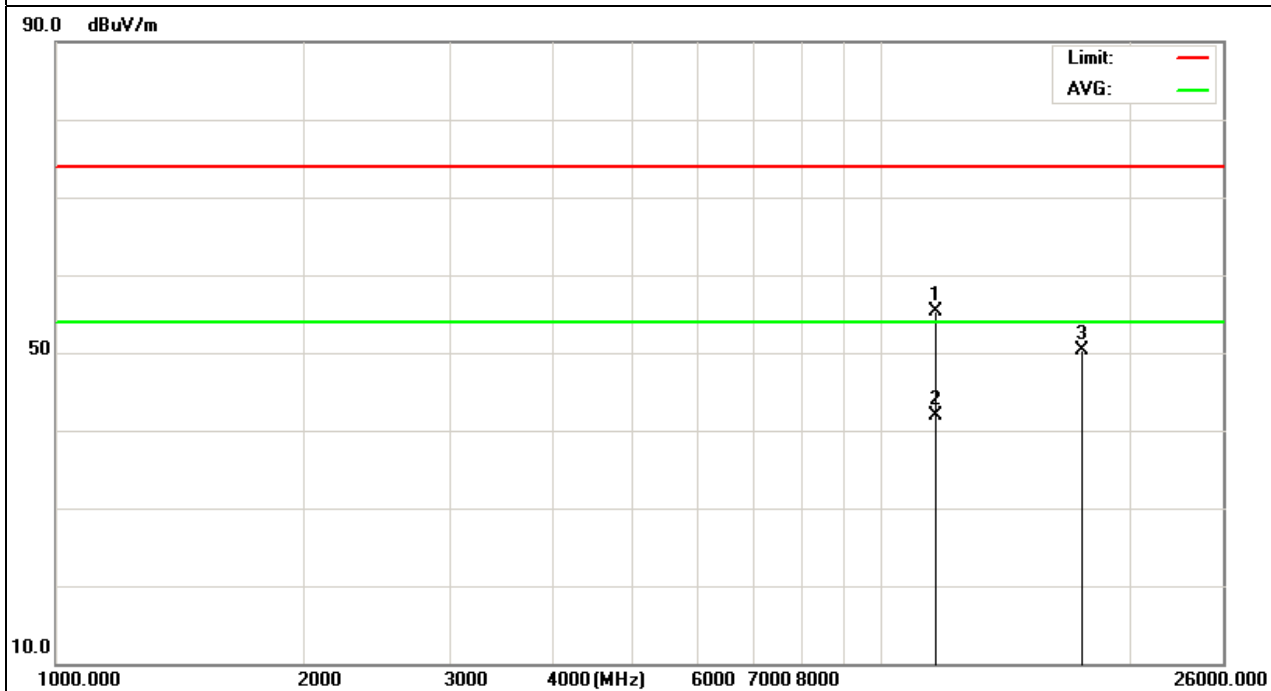
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Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5.0V from PC AC 120V/60Hz
Test Mode :	802.11a/5825MHz	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
11650.167	36.69	18.7	55.39	74	-18.61	peak
11650.167	23.28	18.7	41.98	54	-12.02	AVG
17475.058	18.09	32.23	50.32	74	-23.68	peak

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

No emission detected above 26GHz.



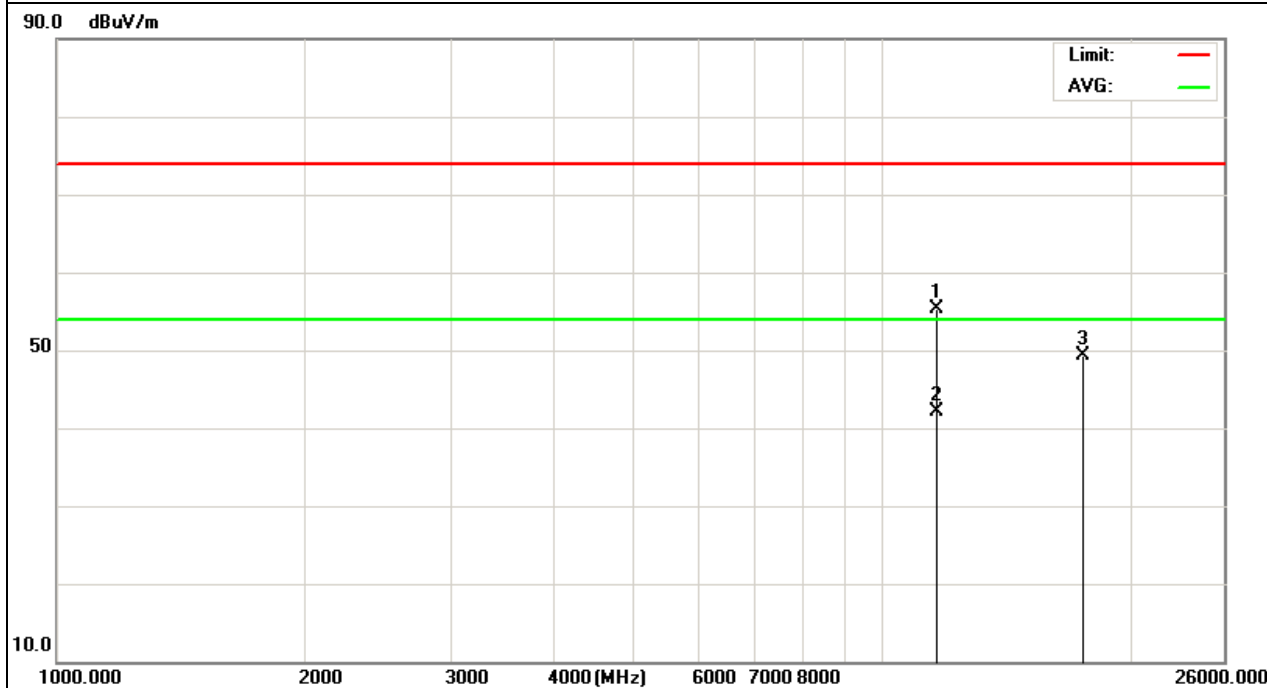
EUT :	300Mbps Dual Band Wireless N USB Adapter	Model Name :	JWL-D572R
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5.0V from PC AC 120V/60Hz
Test Mode :	802.11a/5825MHz	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
11650.058	36.57	18.7	55.27	74	-18.73	peak
11650.058	23.44	18.7	42.14	54	-11.86	AVG
17475.069	17.15	32.23	49.38	74	-24.62	peak

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

No emission detected above 26GHz.



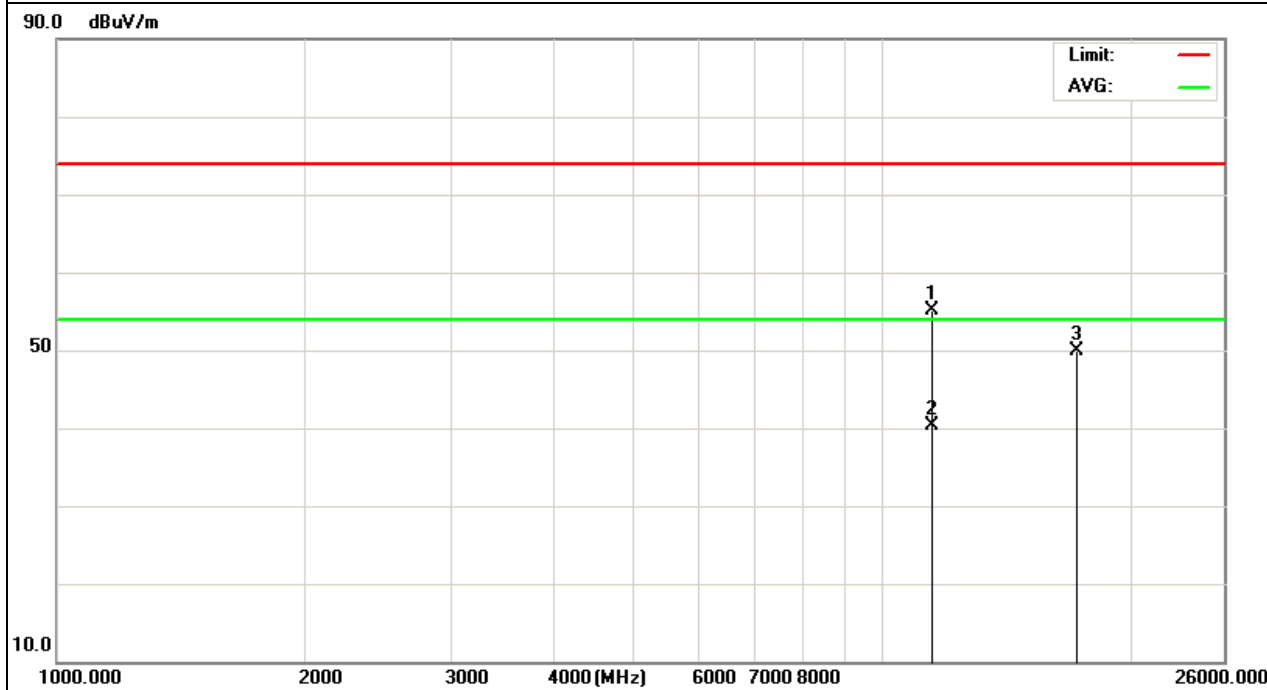
EUT :	300Mbps Dual Band Wireless N USB Adapter	Model Name :	JWL-D572R
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5.0V from PC AC 120V/60Hz
Test Mode :	802.11n(20)/5745MHz	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
11490.026	37.09	18.1	55.19	74	-18.81	peak
11490.026	22.18	18.1	40.28	54	-13.72	AVG
17235.186	18.49	31.36	49.85	74	-24.15	peak

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

No emission detected above 26GHz.



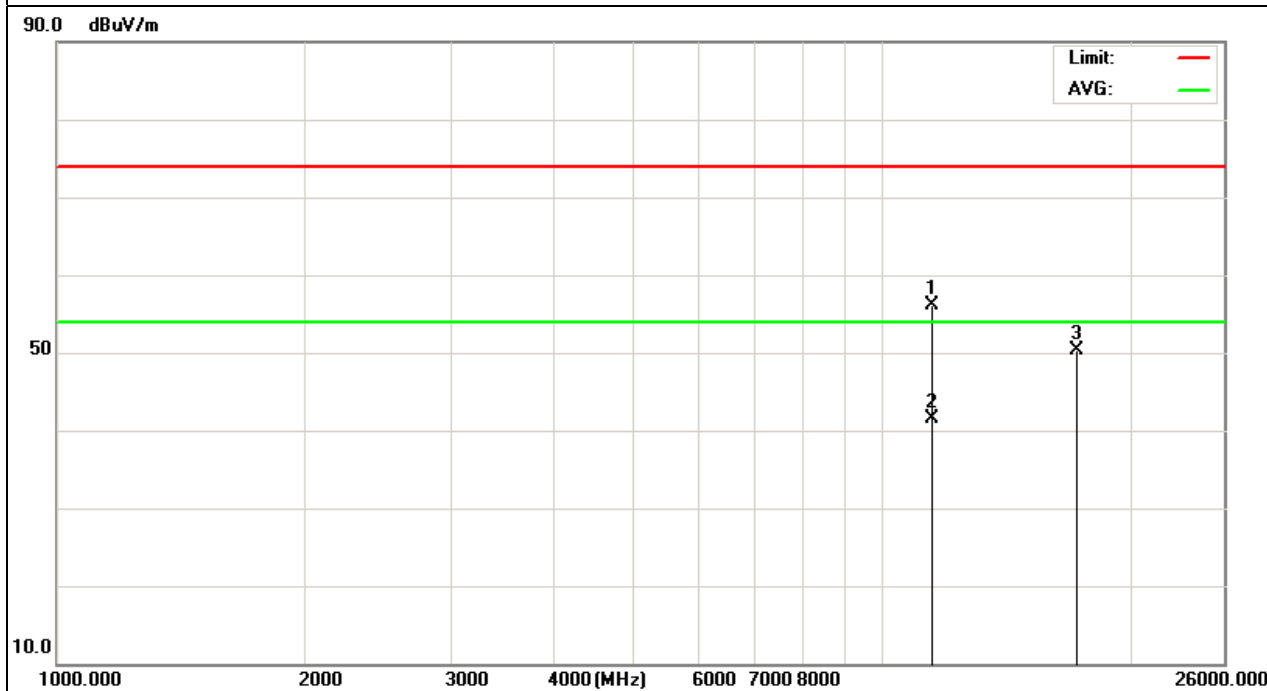
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Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5.0V from PC AC 120V/60Hz
Test Mode :	802.11n(20)/5745MHz	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
11490.155	38.02	18.1	56.12	74	-17.88	peak
11490.155	23.31	18.1	41.41	54	-12.59	AVG
17235.208	18.94	31.36	50.3	74	-23.7	peak

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

No emission detected above 26GHz.



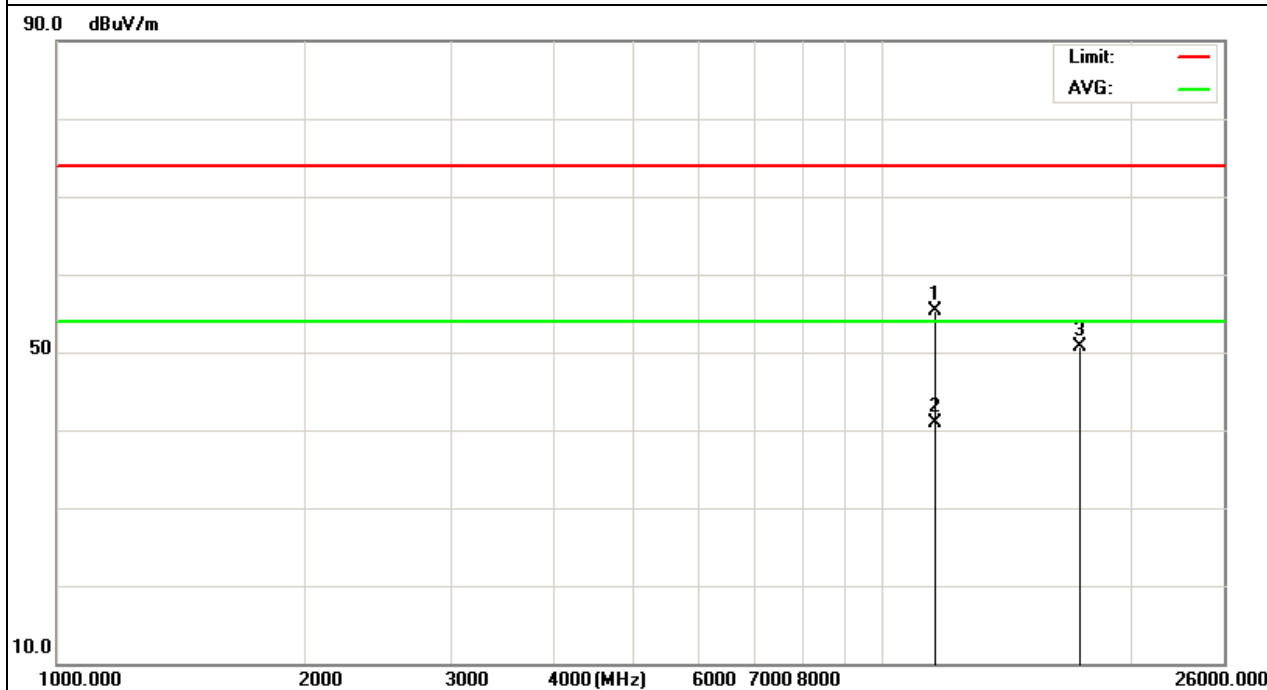
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Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5.0V from PC AC 120V/60Hz
Test Mode :	802.11n(20)/5785MHz	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
11570.239	37.27	18.11	55.38	74	-18.62	peak
11570.239	22.74	18.11	40.85	54	-13.15	AVG
17355.162	19.74	30.95	50.69	74	-23.31	peak

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

No emission detected above 26GHz.



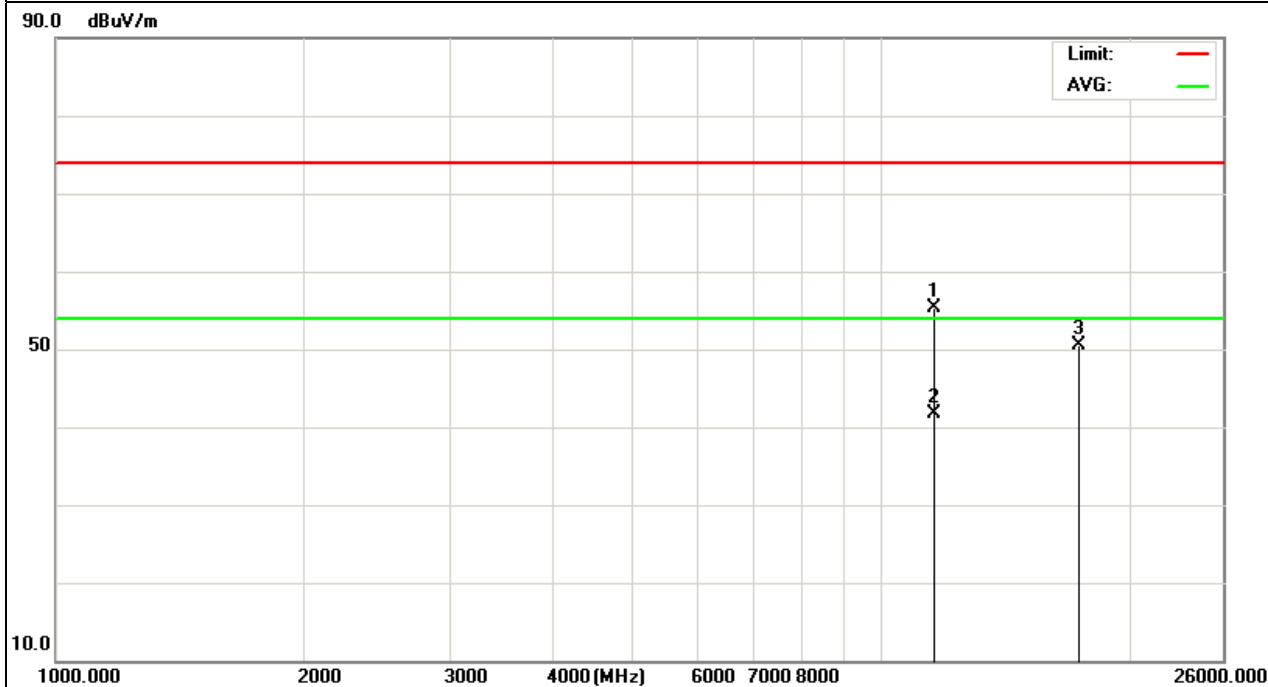
EUT :	300Mbps Dual Band Wireless N USB Adapter	Model Name :	JWL-D572R
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5.0V from PC AC 120V/60Hz
Test Mode :	802.11n(20)/5785MHz	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
11570.133	37.28	18.11	55.39	74	-18.61	peak
11570.133	23.63	18.11	41.74	54	-12.26	AVG
17355.146	19.49	30.95	50.44	74	-23.56	peak

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

No emission detected above 26GHz.



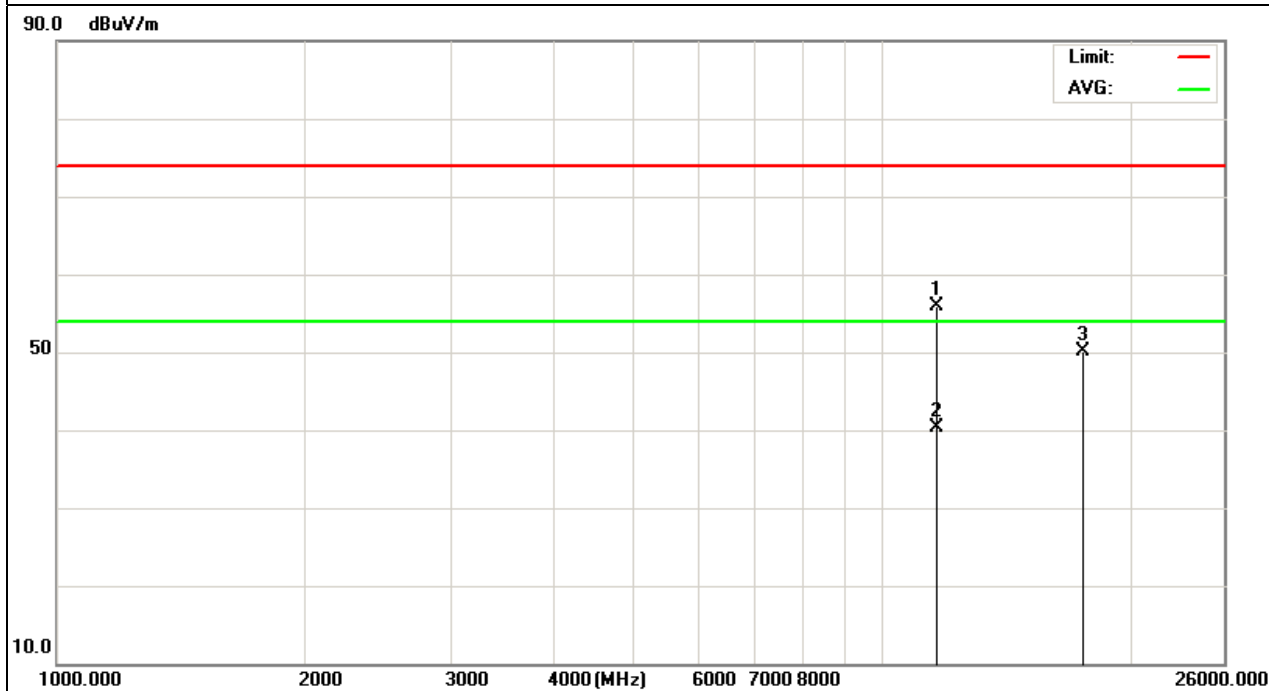
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Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5.0V from PC AC 120V/60Hz
Test Mode :	802.11n(20)/5825MHz	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
11650.207	37.12	18.7	55.82	74	-18.18	peak
11650.207	21.65	18.7	40.35	54	-13.65	AVG
17475.326	17.98	32.22	50.2	74	-23.8	peak

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

No emission detected above 26GHz.



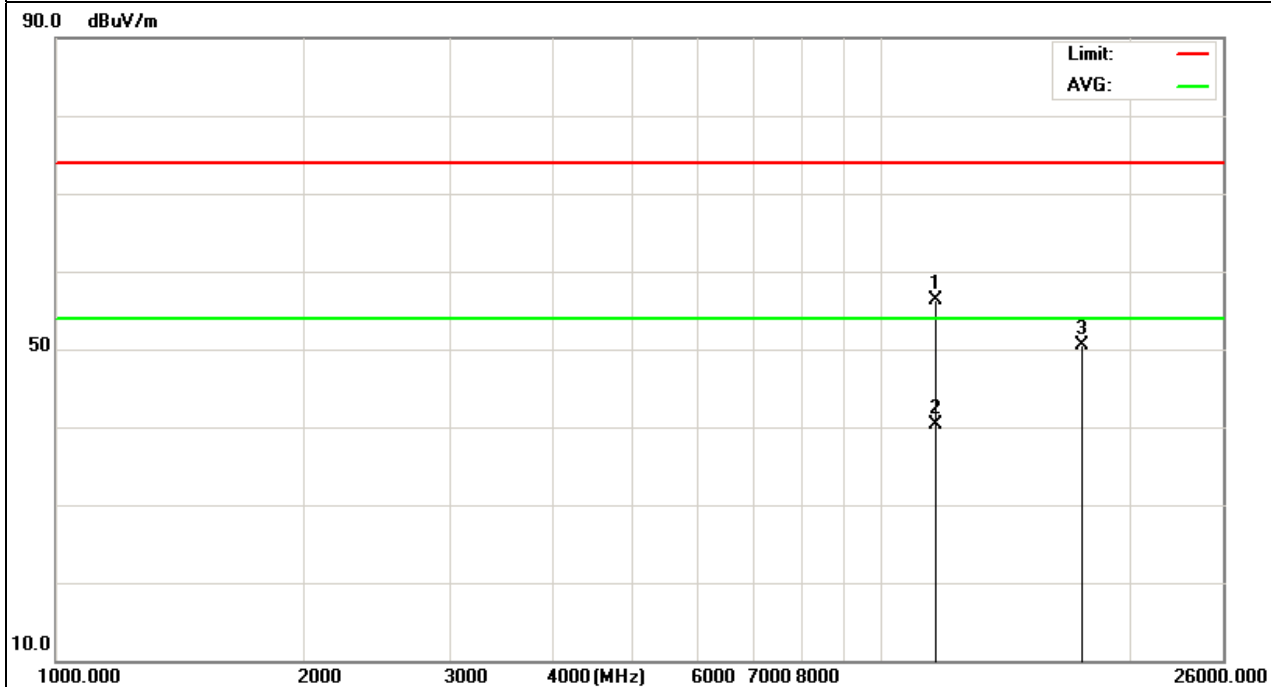
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Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5.0V from PC AC 120V/60Hz
Test Mode :	802.11n(20)/5825MHz	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
11650.238	37.52	18.7	56.22	74	-17.78	peak
11650.238	21.67	18.7	40.37	54	-13.63	AVG
17475.106	18.31	32.23	50.54	74	-23.46	peak

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

No emission detected above 26GHz.



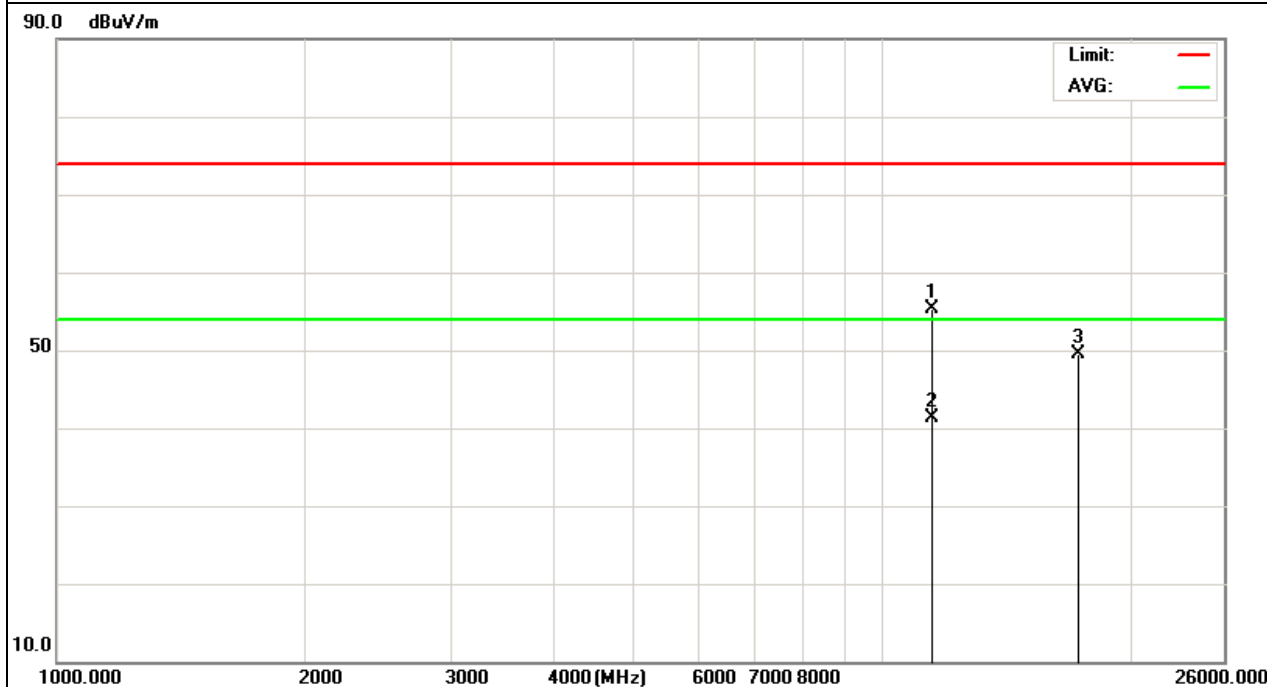
EUT :	300Mbps Dual Band Wireless N USB Adapter	Model Name :	JWL-D572R
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5.0V from PC AC 120V/60Hz
Test Mode :	802.11n(40)/5755MHz	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
11510.115	37.31	18.07	55.38	74	-18.62	peak
11510.115	23.2	18.07	41.27	54	-12.73	AVG
17265.036	18.77	30.75	49.52	74	-24.48	peak

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

No emission detected above 26GHz.



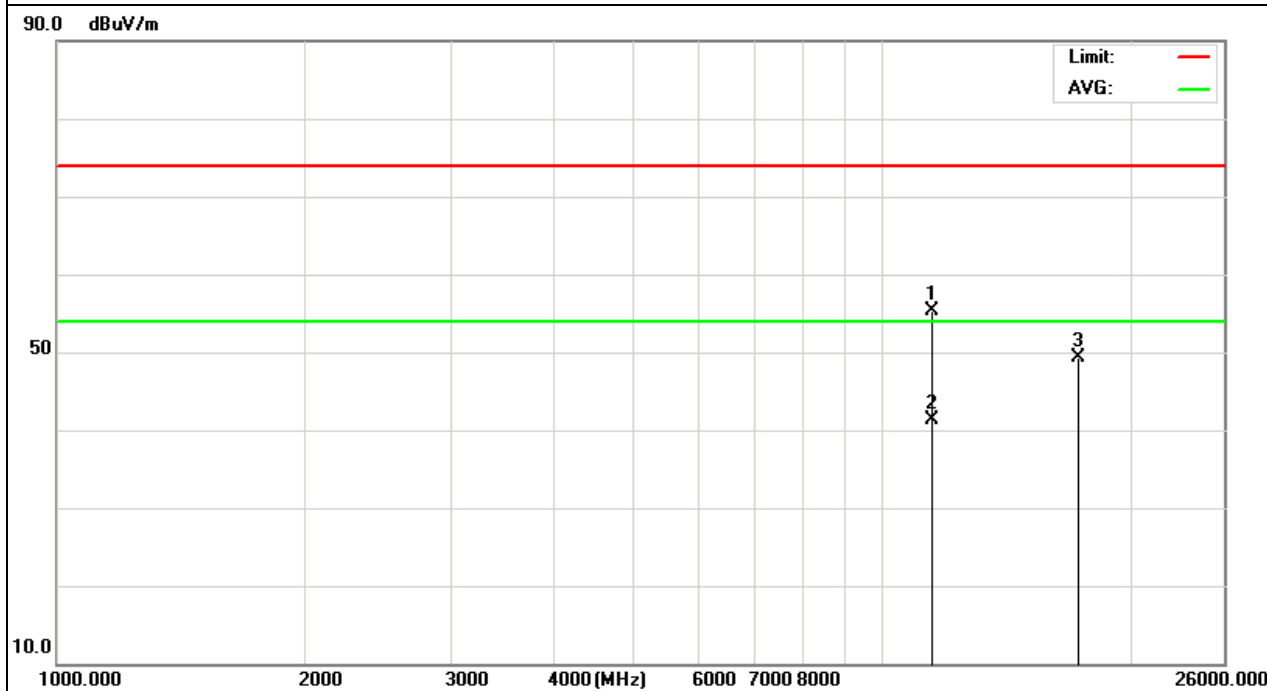
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Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5.0V from PC AC 120V/60Hz
Test Mode :	802.11n(40)/5755MHz	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
11510.258	37.3	18.07	55.37	74	-18.63	peak
11510.258	23.28	18.07	41.35	54	-12.65	AVG
17265.058	18.52	30.75	49.27	74	-24.73	peak

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

No emission detected above 26GHz.



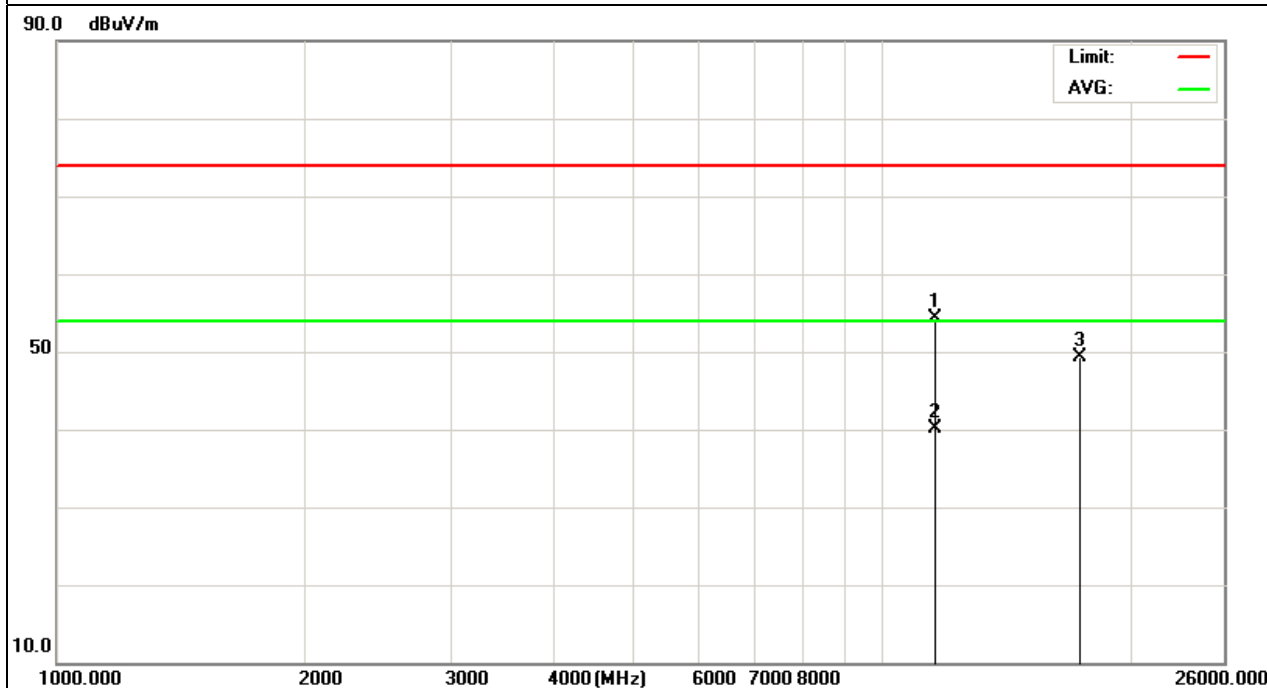
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Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5.0V from PC AC 120V/60Hz
Test Mode :	802.11n(40)/5795MHz	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
11590.036	35.97	18.4	54.37	74	-19.63	peak
11590.036	21.61	18.4	40.01	54	-13.99	AVG
17385.022	17.57	31.73	49.3	74	-24.7	peak

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

No emission detected above 26GHz.



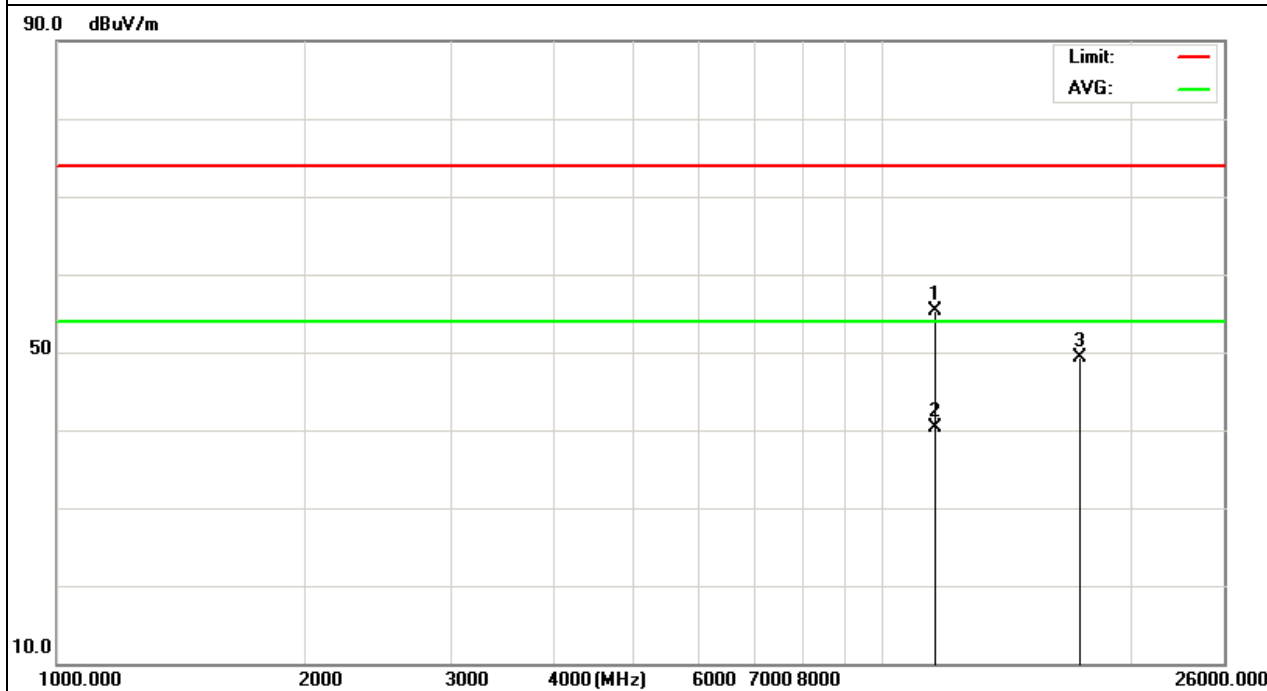
EUT :	300Mbps Dual Band Wireless N USB Adapter	Model Name :	JWL-D572R
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5.0V from PC AC 120V/60Hz
Test Mode :	802.11n(40)/5795MHz	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
11590.158	36.87	18.4	55.27	74	-18.73	peak
11590.158	21.91	18.4	40.31	54	-13.69	AVG
17385.244	17.56	31.73	49.29	74	-24.71	peak

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

No emission detected above 26GHz.

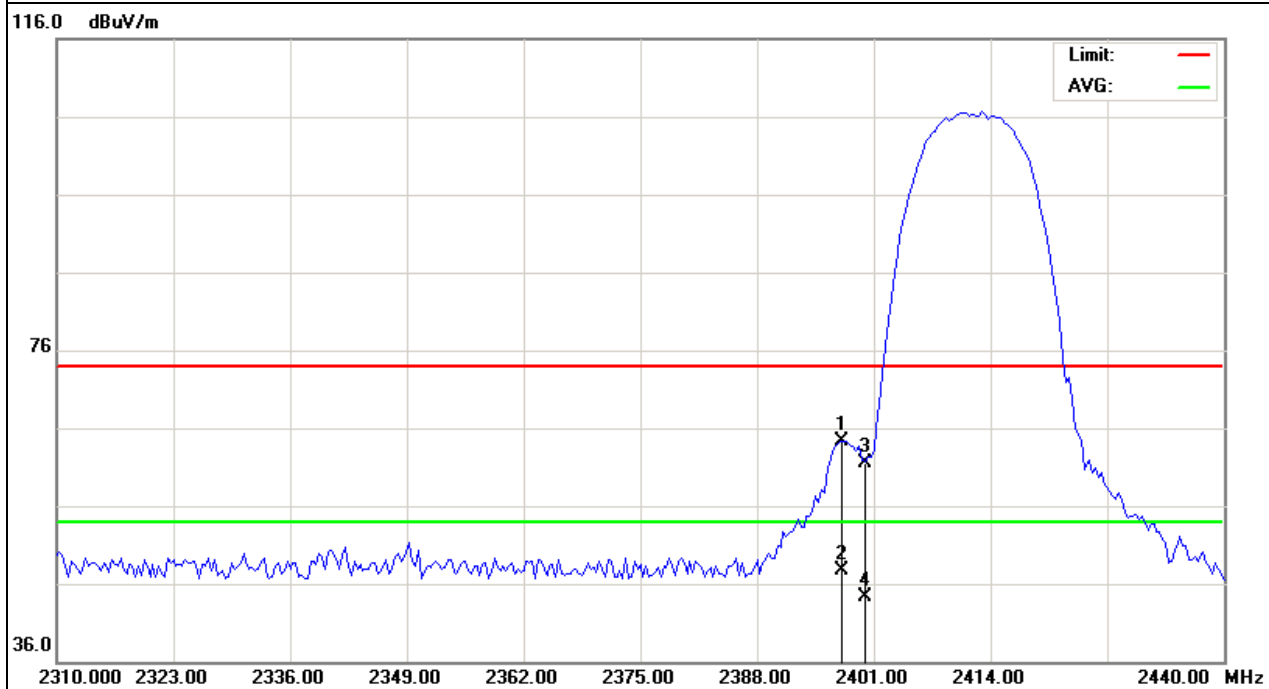


EUT :	300Mbps Dual Band Wireless N USB Adapter	Model Name :	JWL-D572R
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5.0V
Test Mode :	CH1(802.11b Mode)	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2397.425	77.32	-13.02	64.3	74	-9.7	peak
2397.425	60.62	-13.02	47.6	54	-6.4	AVG
2400	74.59	-12.99	61.6	74	-12.4	peak
2400	57.19	-12.99	44.2	54	-9.8	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

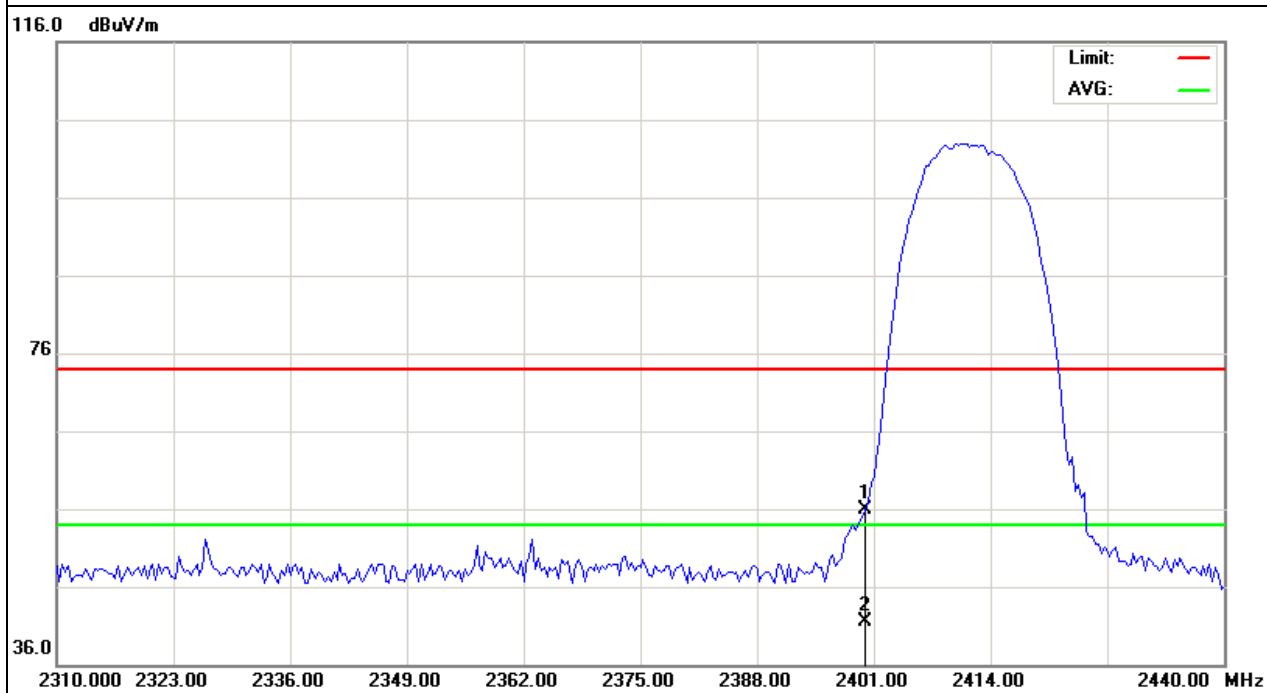


EUT :	300Mbps Dual Band Wireless N USB Adapter	Model Name :	JWL-D572R
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5.0V
Test Mode :	CH1(802.11b Mode)	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2400	68.99	-12.99	56	74	-18	peak
2400	54.59	-12.99	41.6	54	-12.4	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

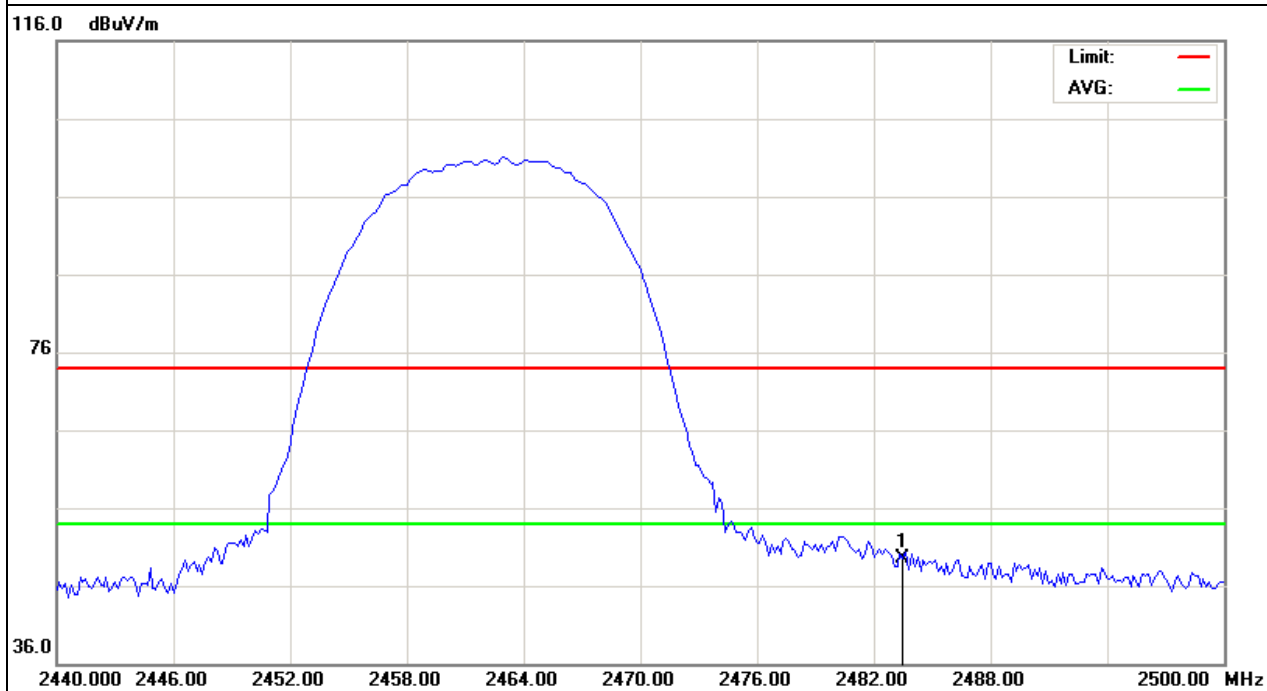


EUT :	300Mbps Dual Band Wireless N USB Adapter	Model Name :	JWL-D572R
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5.0V
Test Mode :	CH11(802.11b Mode)	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2483.5	62.28	-12.78	49.5	74	-24.5	

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.



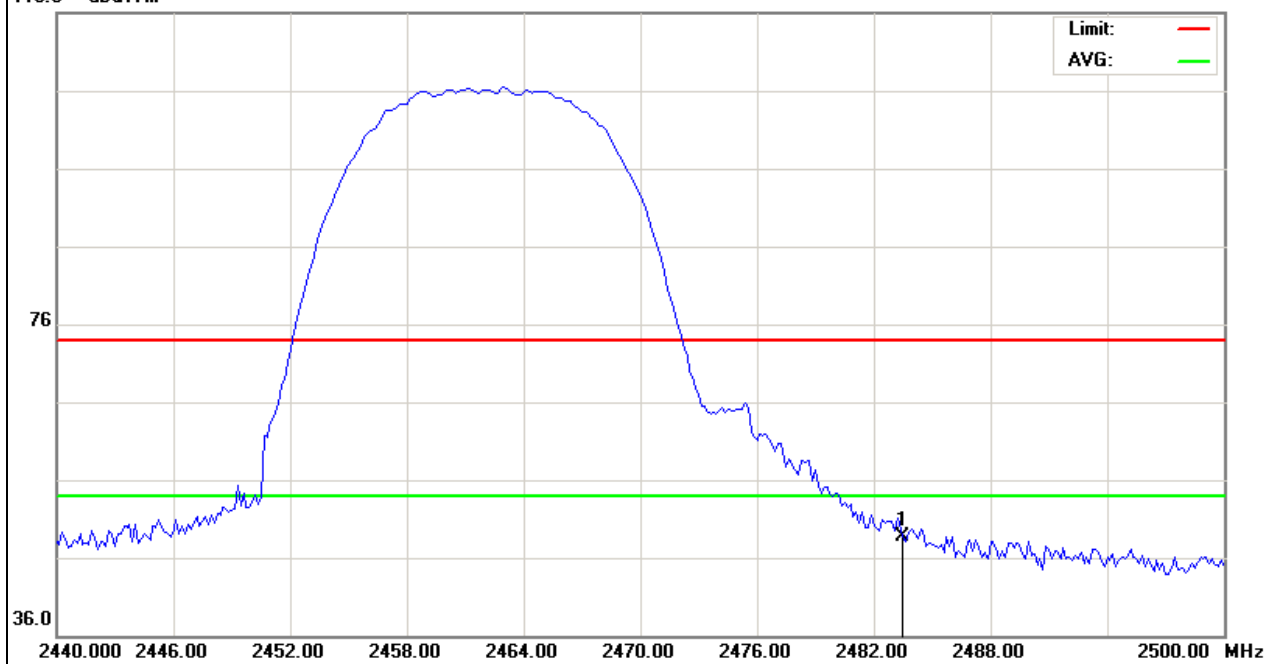
EUT :	300Mbps Dual Band Wireless N USB Adapter	Model Name :	JWL-D572R
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5.0V
Test Mode :	CH11(802.11b Mode)	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.5	61.48	-12.78	48.7	74	-25.3	peak

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

116.0 dBμV/m

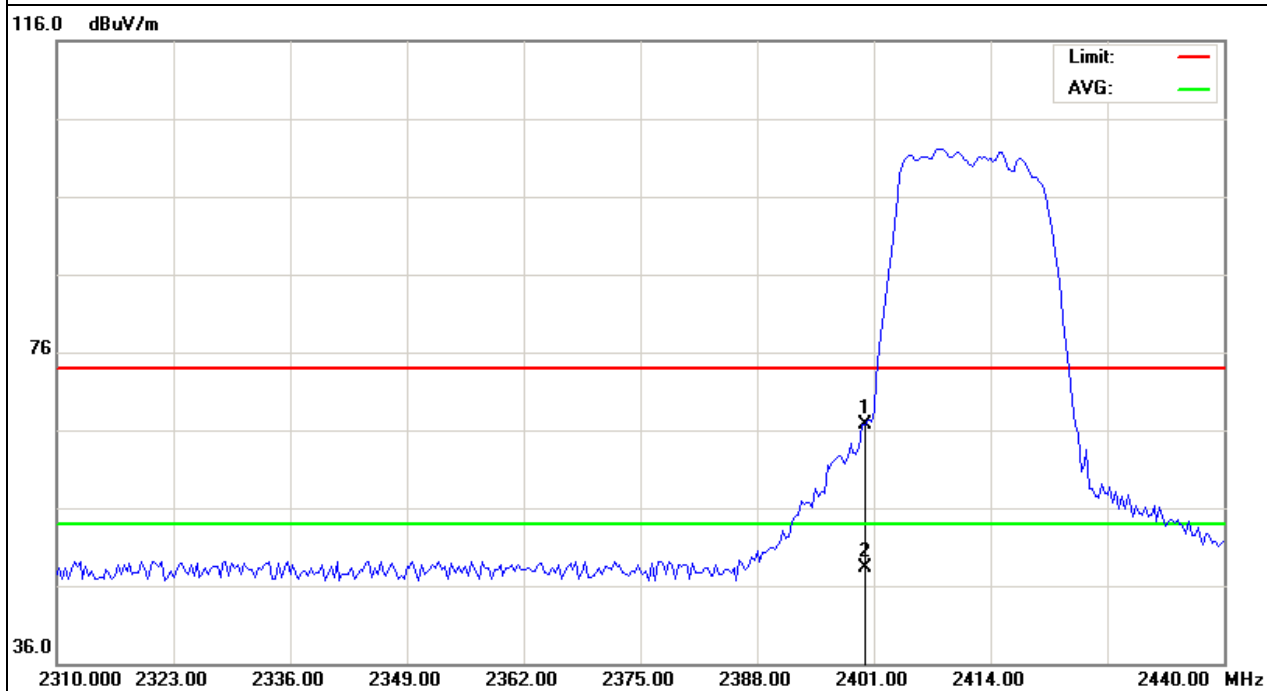


EUT :	300Mbps Dual Band Wireless N USB Adapter	Model Name :	JWL-D572R
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5.0V
Test Mode :	CH1(802.11g Mode)	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2400	79.62	-12.99	66.63	74	-7.37	peak
2400	61.27	-12.99	48.28	54	-5.72	AVG

Remark:

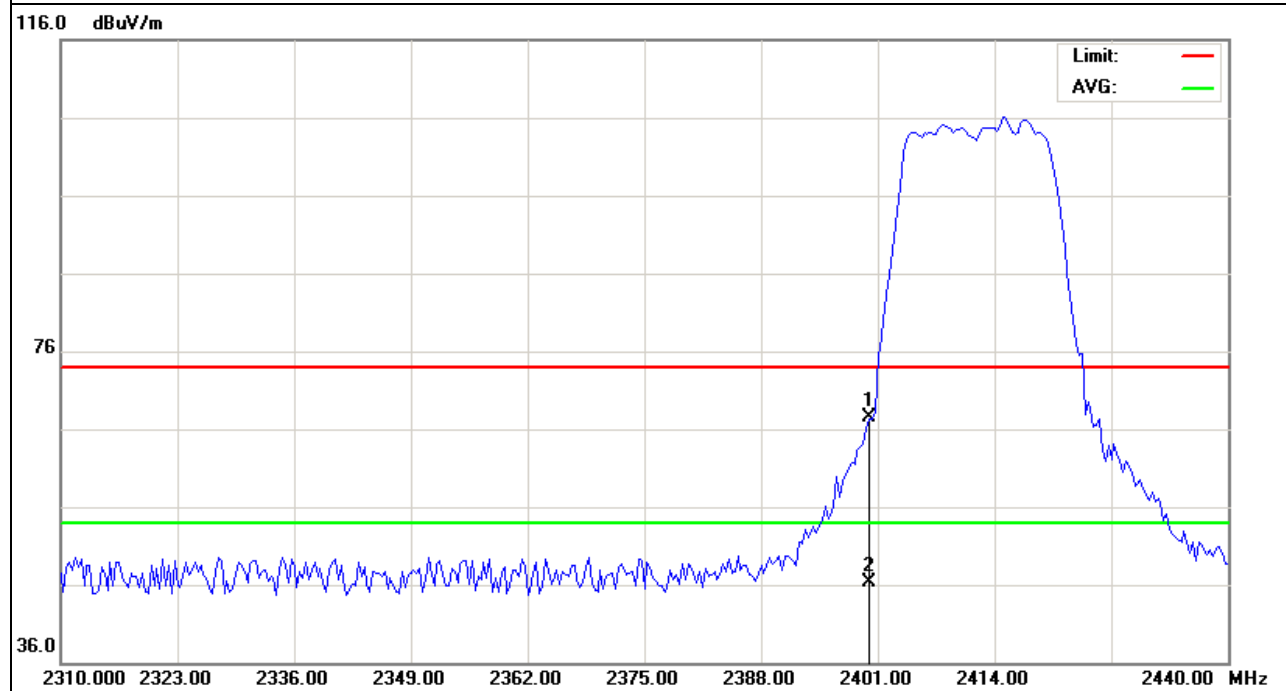
Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT :	300Mbps Dual Band Wireless N USB Adapter	Model Name :	JWL-D572R
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5.0V
Test Mode :	CH1(802.11gMode)	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2400	80.39	-12.99	67.4	74	-6.6	peak
2400	59.34	-12.99	46.35	54	-7.65	AVG

Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

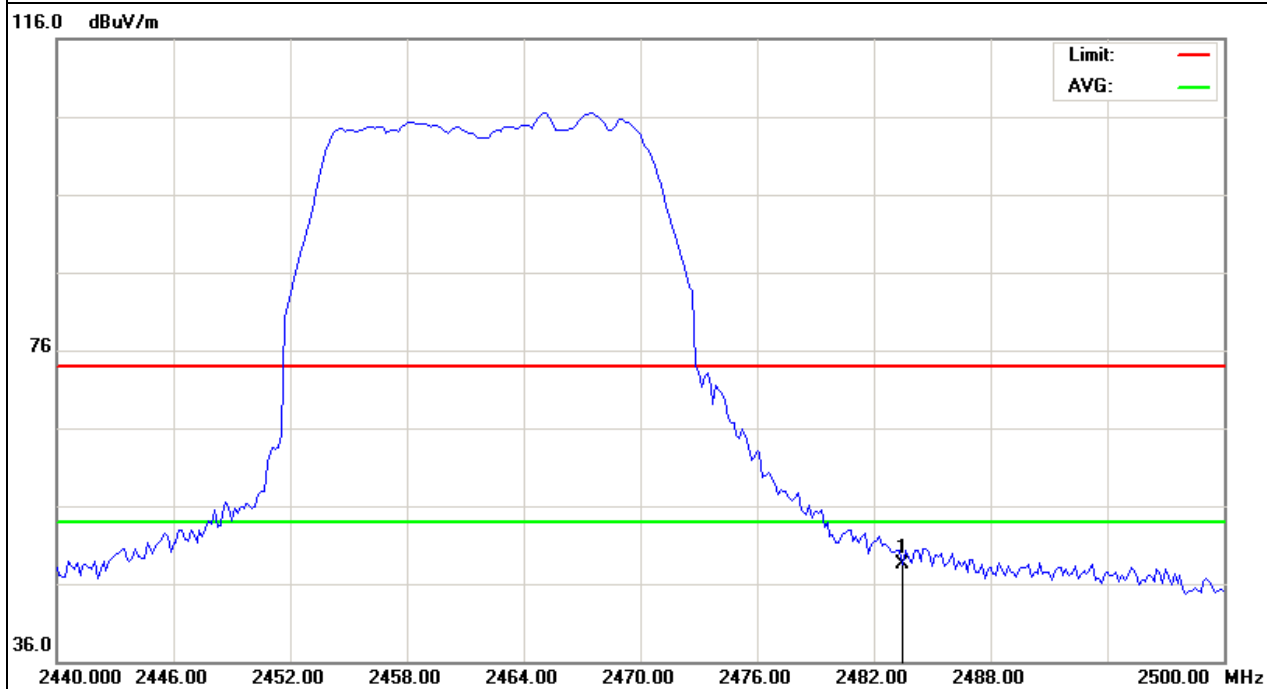


EUT :	300Mbps Dual Band Wireless N USB Adapter	Model Name :	JWL-D572R
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5.0V
Test Mode :	CH11(802.11g Mode)	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2483.5	61.38	-12.78	48.6	74	-25.4	peak

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.



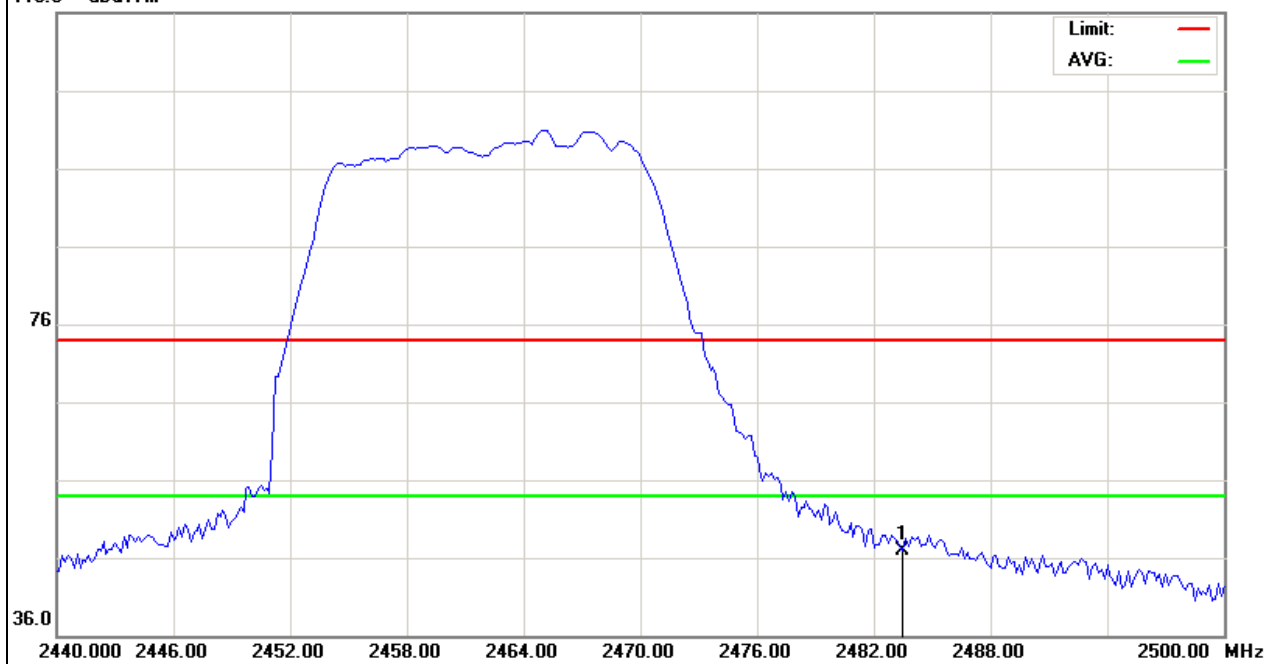
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Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5.0V
Test Mode :	CH11(802.11g Mode)	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.5	59.78	-12.78	47	74	-27	peak

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

116.0 dBμV/m

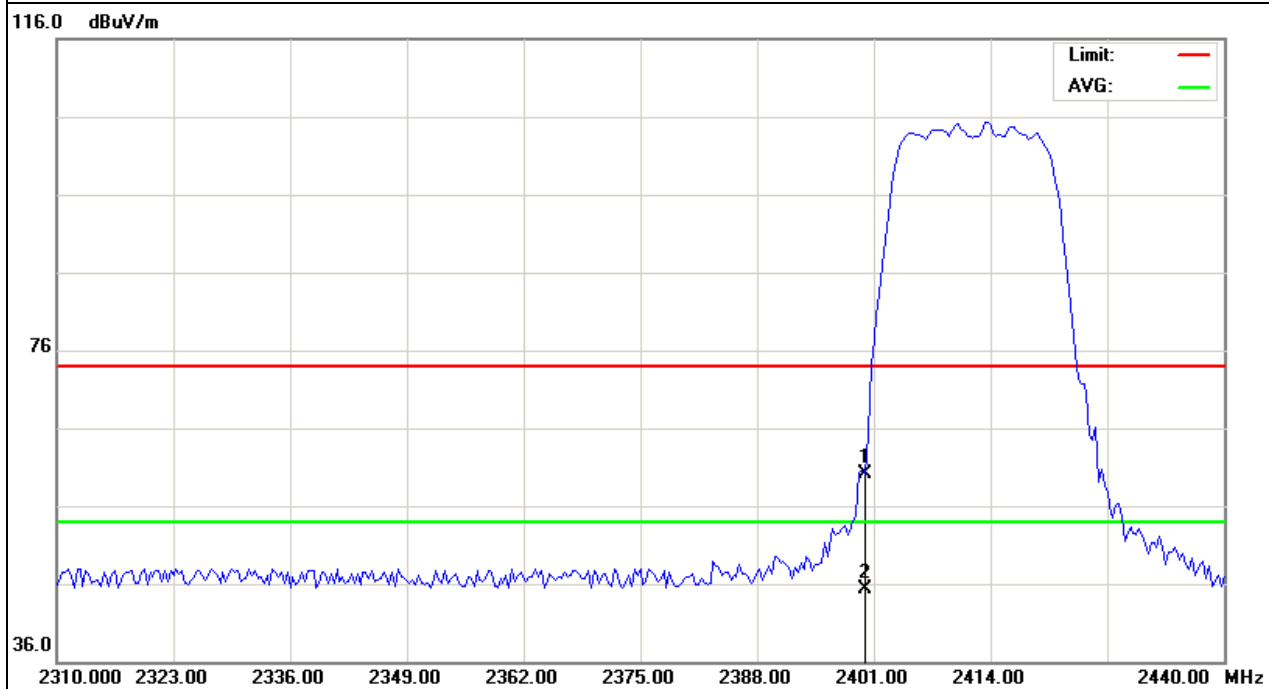


EUT :	300Mbps Dual Band Wireless N USB Adapter	Model Name :	JWL-D572R
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5.0V
Test Mode :	CH1(802.11N Mode)/20MHz	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2400	73.09	-12.99	60.1	74	-13.9	peak
2400	58.23	-12.99	45.24	54	-8.76	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

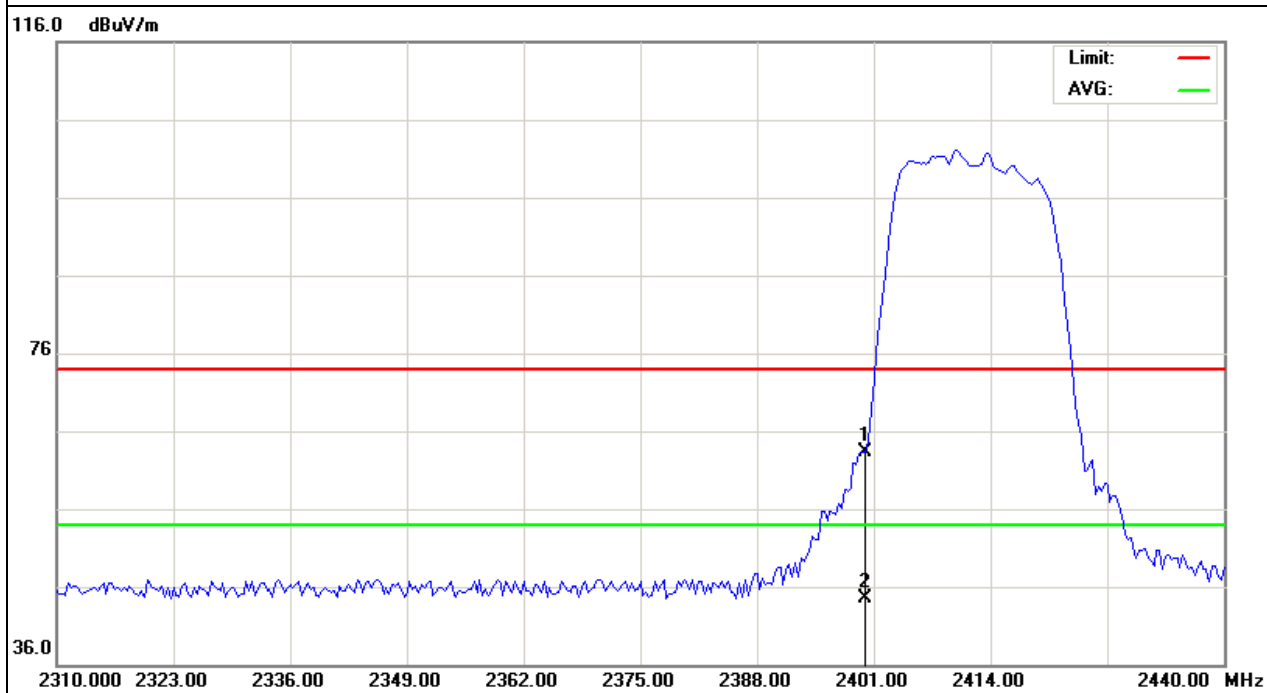


EUT :	300Mbps Dual Band Wireless N USB Adapter	Model Name :	JWL-D572R
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5.0V
Test Mode :	CH1(802.11N Mode)/20M	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2400	76.32	-12.99	63.33	74	-10.67	peak
2400	57.58	-12.99	44.59	54	-9.41	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

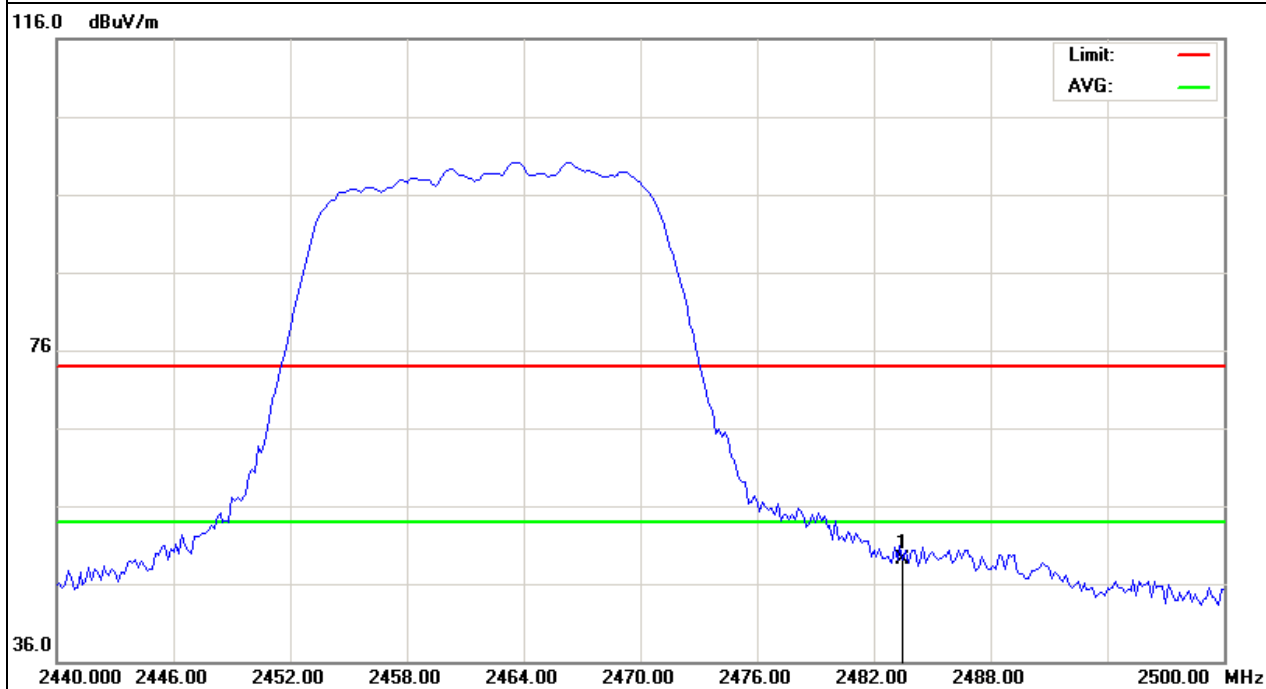


EUT :	300Mbps Dual Band Wireless N USB Adapter	Model Name :	JWL-D572R
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5.0V
Test Mode :	CH11(802.11N Mode)/20MHz	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2483.5	61.88	-12.78	49.1	74	-24.9	

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

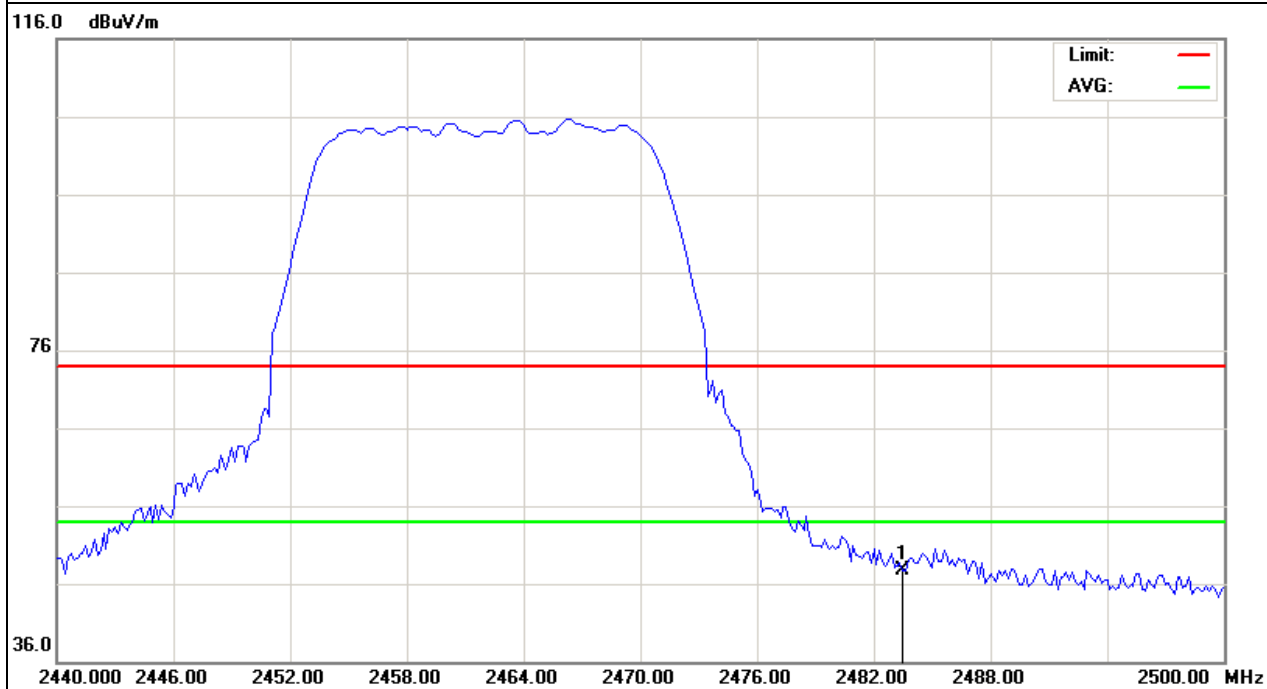


EUT :	300Mbps Dual Band Wireless N USB Adapter	Model Name :	JWL-D572R
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5.0V
Test Mode :	CH11(802.11N Mode)/20MHz	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2483.5	60.48	-12.78	47.7	74	-26.3	

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.



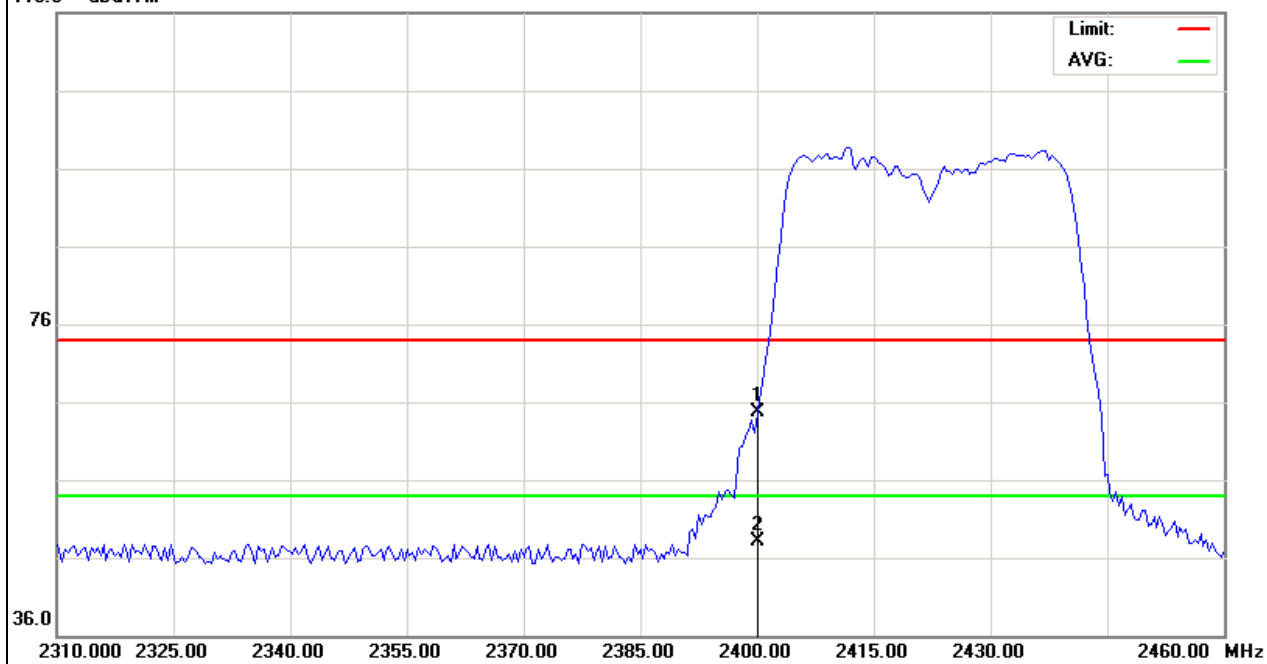
EUT :	300Mbps Dual Band Wireless N USB Adapter	Model Name :	JWL-D572R
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5.0V
Test Mode :	CH3(802.11n Mode)/40M	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2400	77.73	-12.99	64.74	74	-9.26	peak
2400	61.17	-12.99	48.18	54	-5.82	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

116.0 dBμV/m

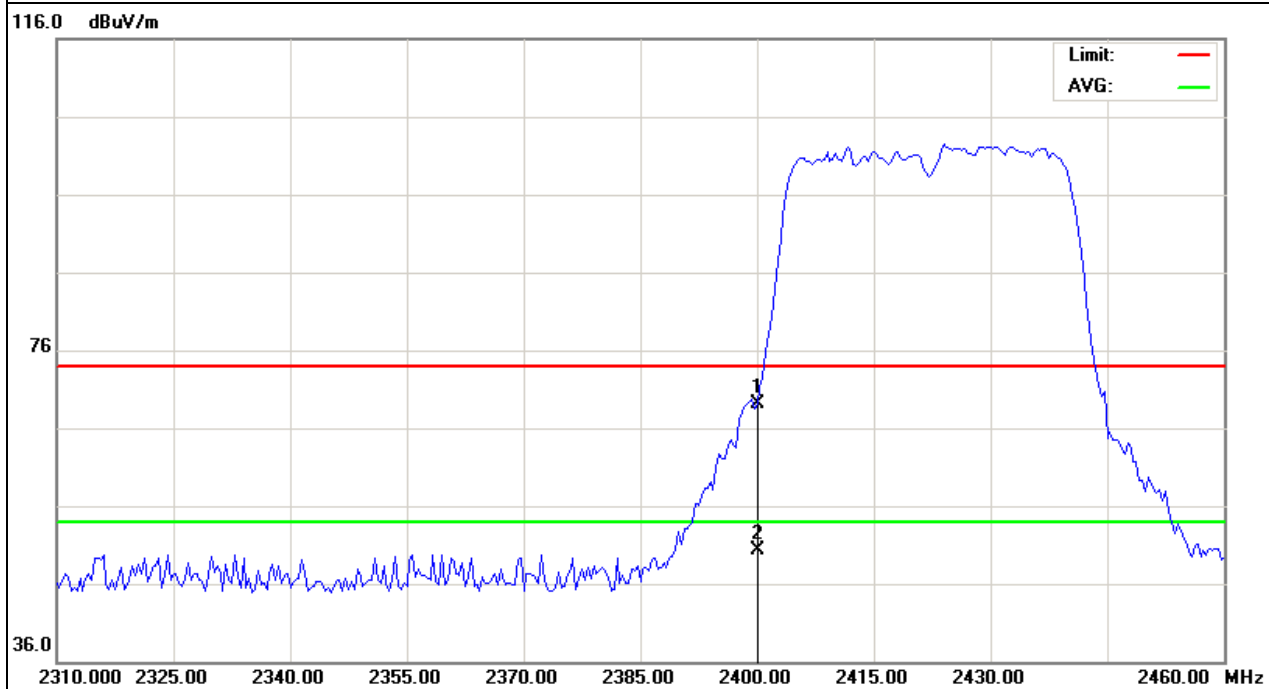


EUT :	300Mbps Dual Band Wireless N USB Adapter	Model Name :	JWL-D572R
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5.0V
Test Mode :	CH3(802.11n Mode)/40MHz	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2400	82.16	-12.99	69.17	74	-4.83	peak
2400	63.32	-12.99	50.33	54	-3.67	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

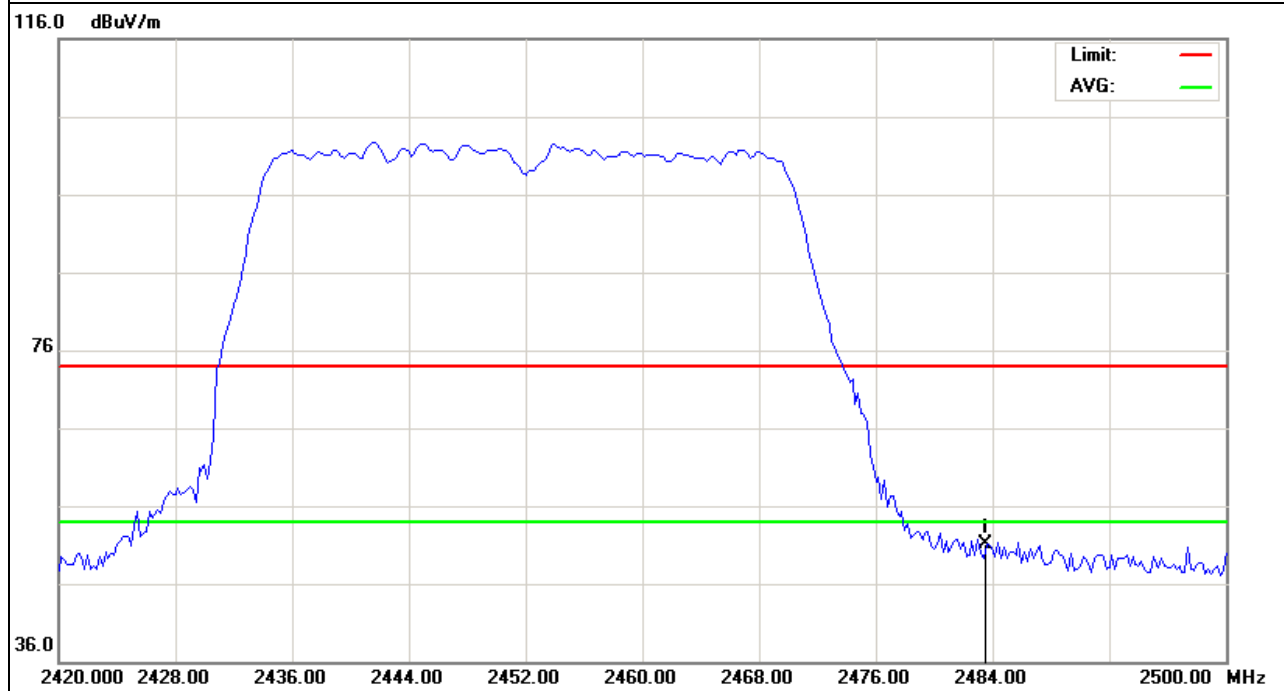


EUT :	300Mbps Dual Band Wireless N USB Adapter	Model Name :	JWL-D572R
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5.0V
Test Mode :	CH9(802.11n Mode)/40MHz	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2483.5	63.98	-12.78	51.2	74	-22.8	

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.



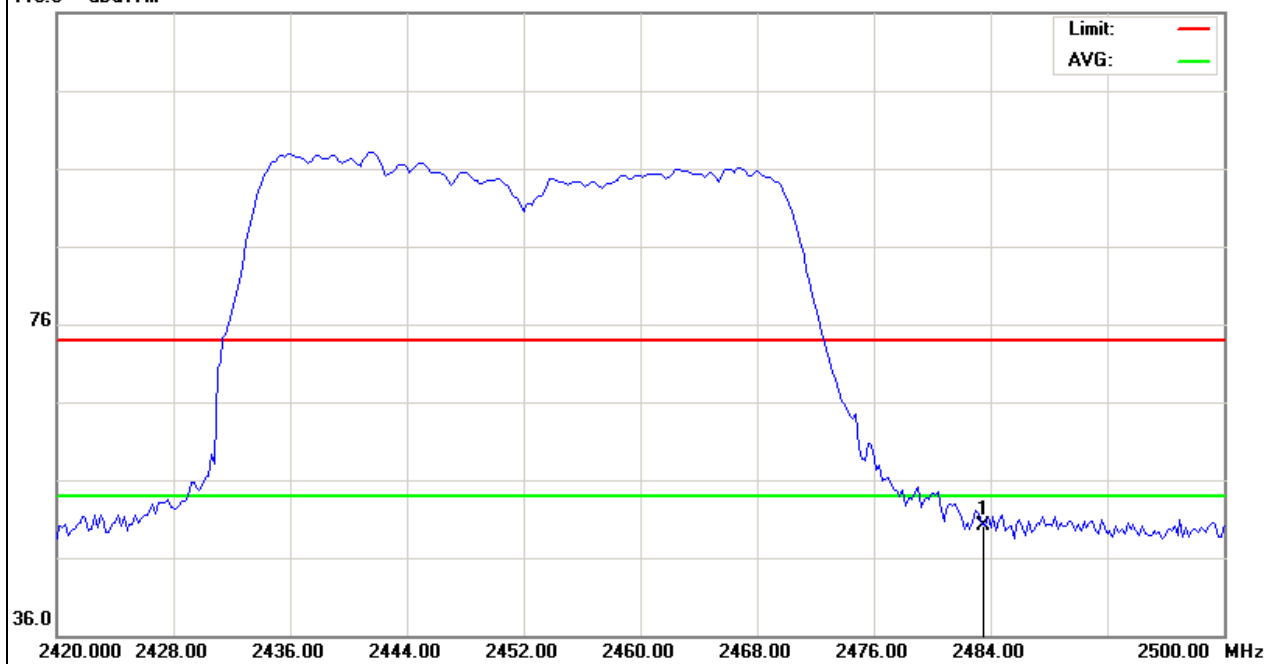
EUT :	300Mbps Dual Band Wireless N USB Adapter	Model Name :	JWL-D572R
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5.0V
Test Mode :	CH9(802.11n Mode)/40MHz	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.5	62.88	-12.78	50.1	74	-23.9	peak

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

116.0 dBμV/m



4. POWER SPECTRAL DENSITY TEST

4.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247	Power Spectral Density	8 dBm (in any 3KHz)	2400-2483.5 5745-5825	PASS

4.1.1 TEST PROCEDURE

1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS channel bandwidth.
3. Set the RBW ≥ 3 kHz.
4. Set the VBW $\geq 3 \times$ RBW.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

4.1.2 DEVIATION FROM STANDARD

No deviation.

4.1.3 TEST SETUP



4.1.4 EUT OPERATION CONDITIONS

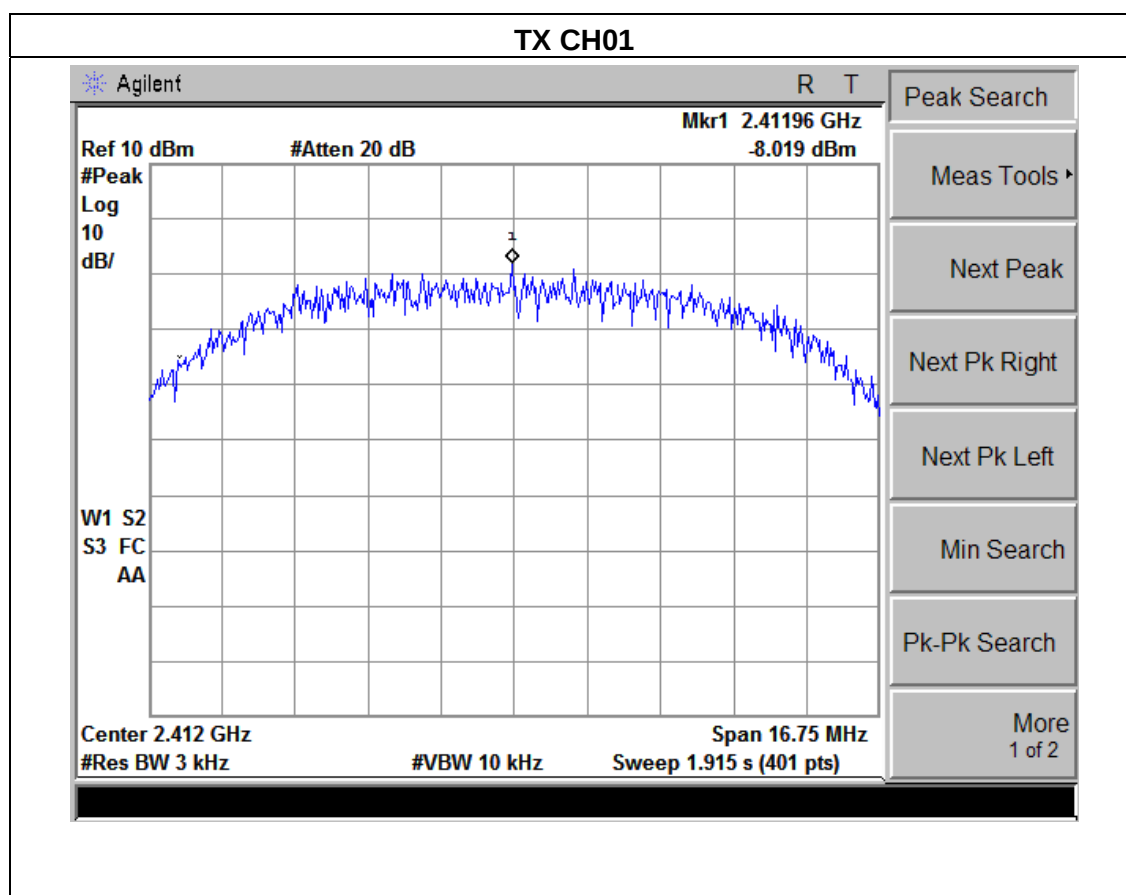
The EUT tested system was configured as the statements of 2.1 Unless otherwise a special operating condition is specified in the follows during the testing.

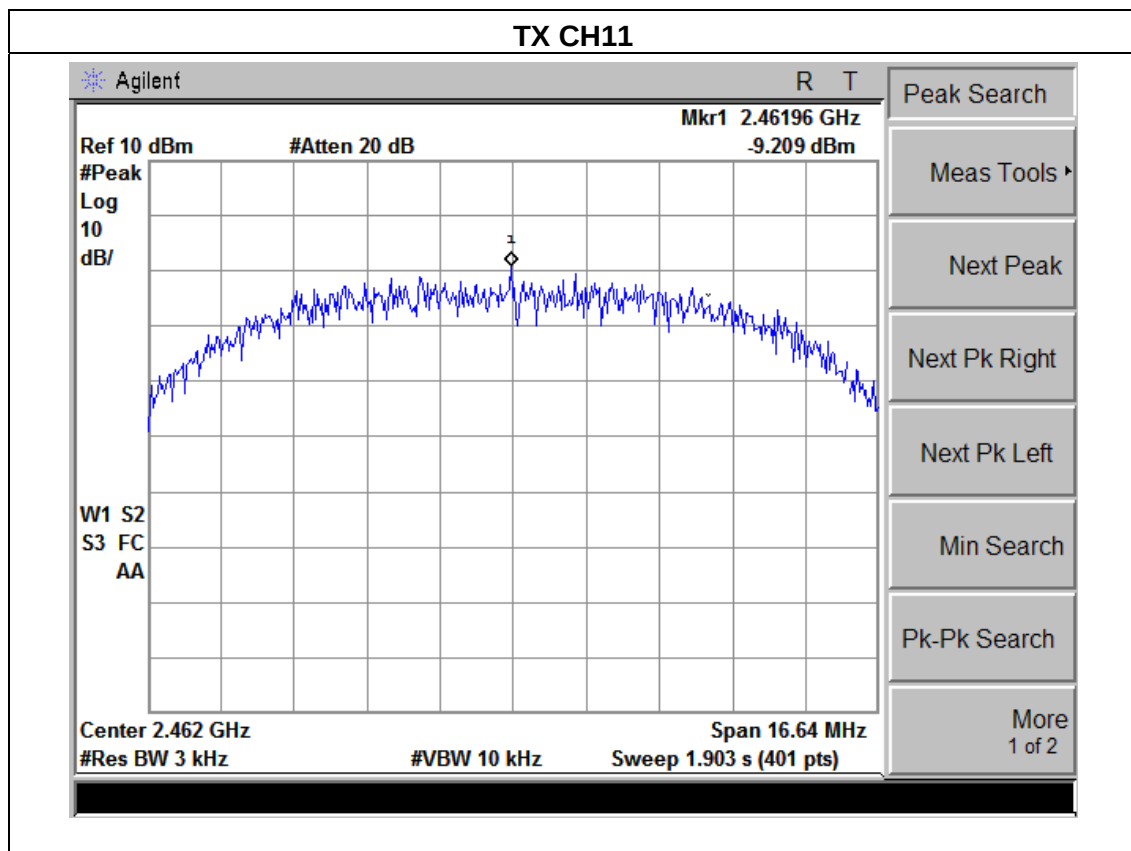
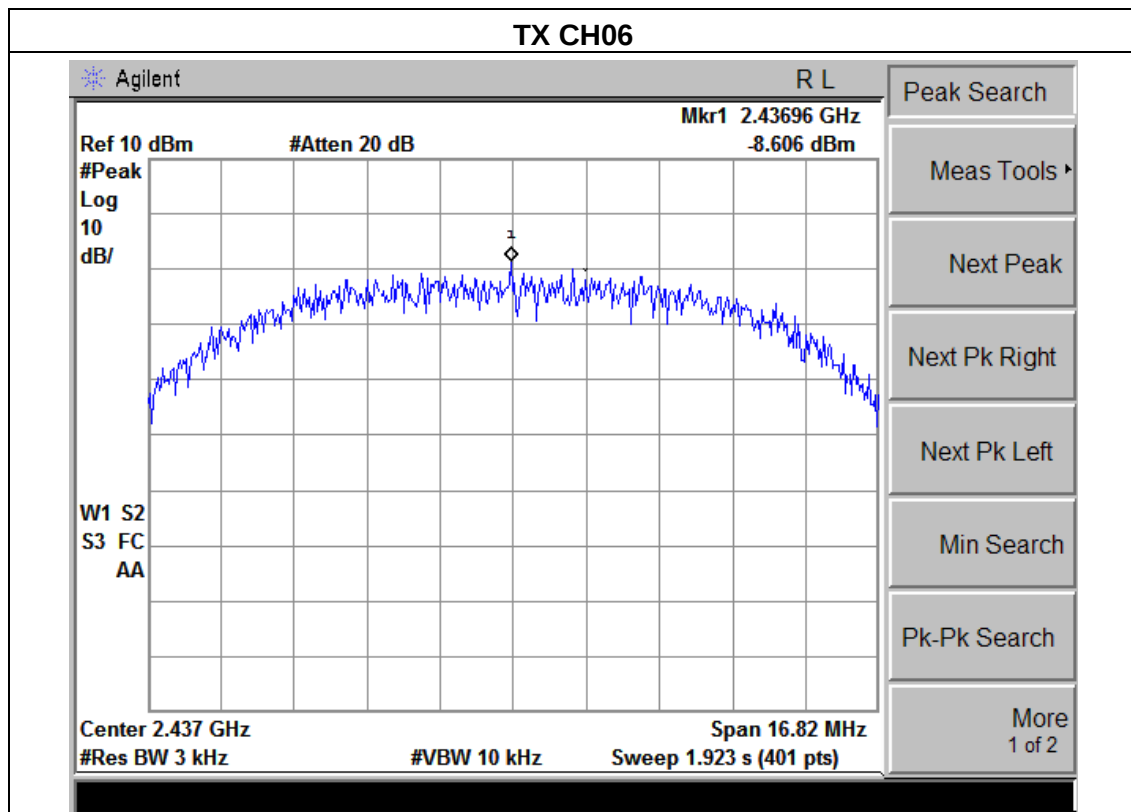
4.1.5 TEST RESULTS

EUT :	300Mbps Dual Band Wireless N USB Adapter	Model Name :	JWL-D572R
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1015 hPa	Test Voltage :	DC 5.0V
Test Mode :	TX b Mode /CH01, CH06, CH11		

Frequency	Power Density A (dBm)	Power Density B (dBm)	Limit (dBm)	Result
2412 MHz	-8.02	-12.78	8	PASS
2437 MHz	-8.61	-11.39	8	PASS
2462 MHz	-9.21	-12.48	8	PASS

NOTE: A(B) Represent the value of antenna A and B, The worst data is A Antenna a ,only shown Antenna A Plot.

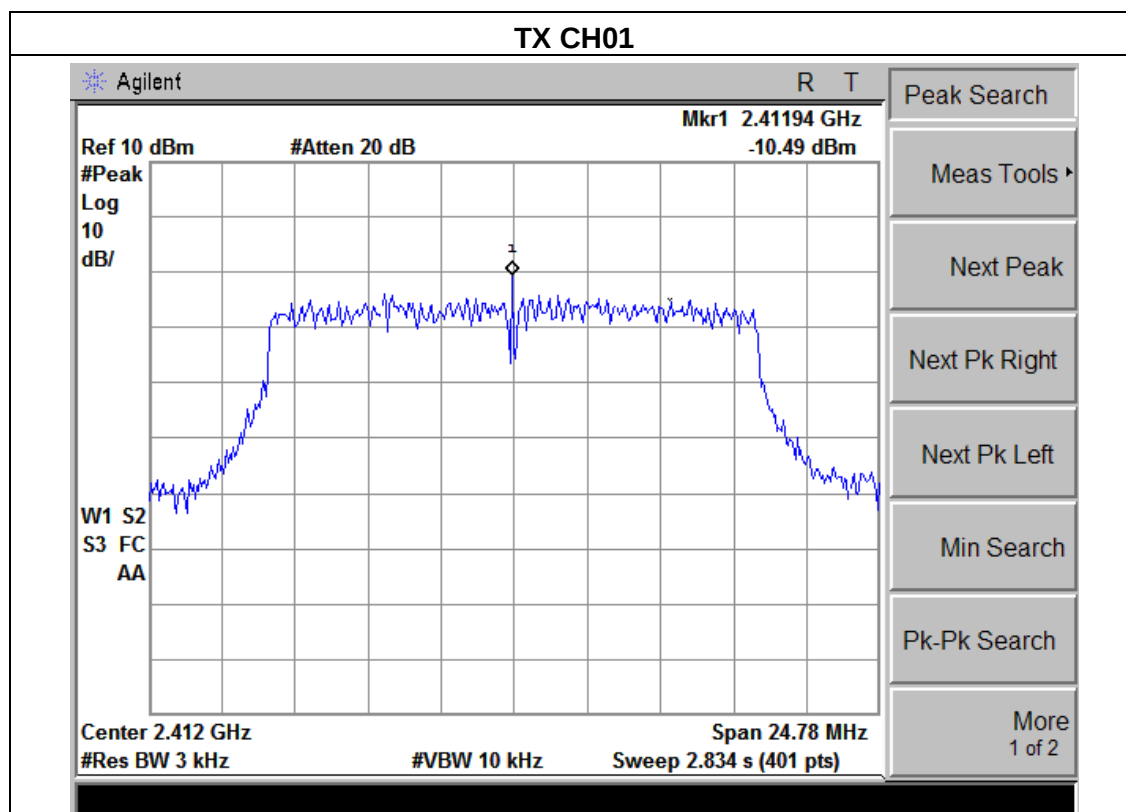


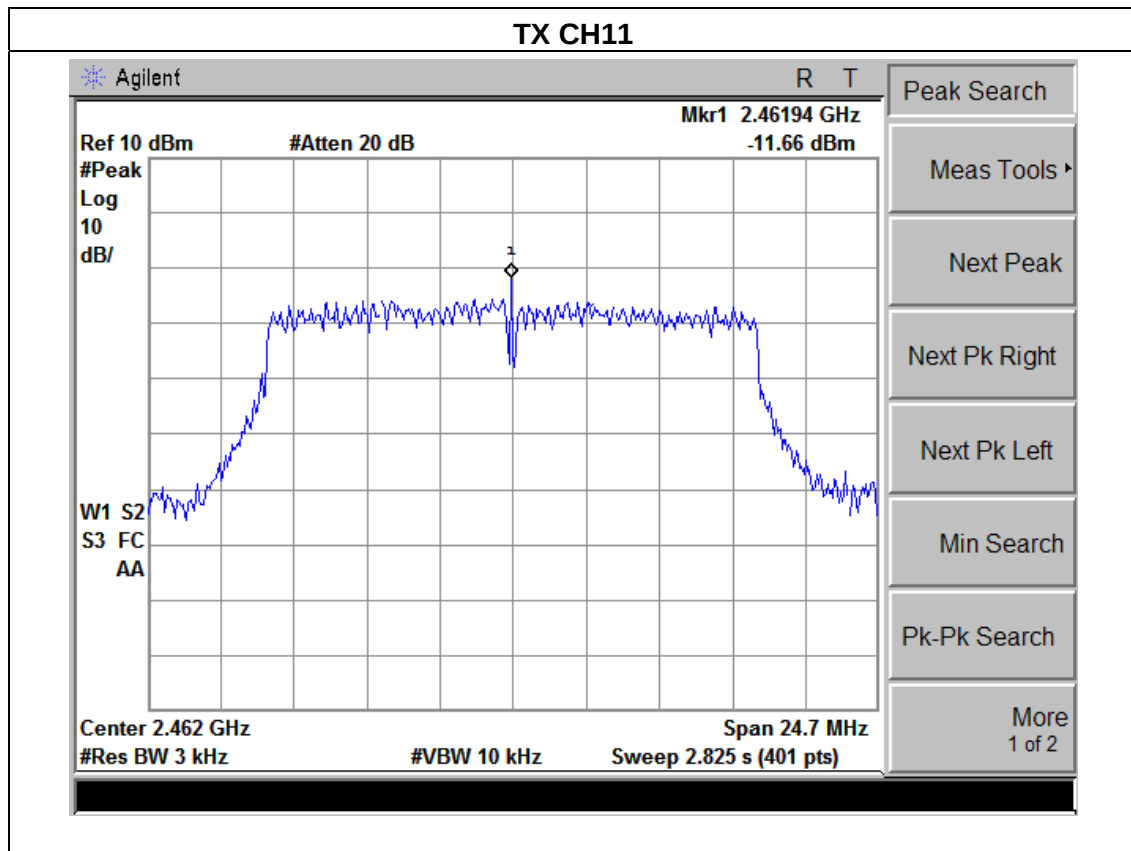
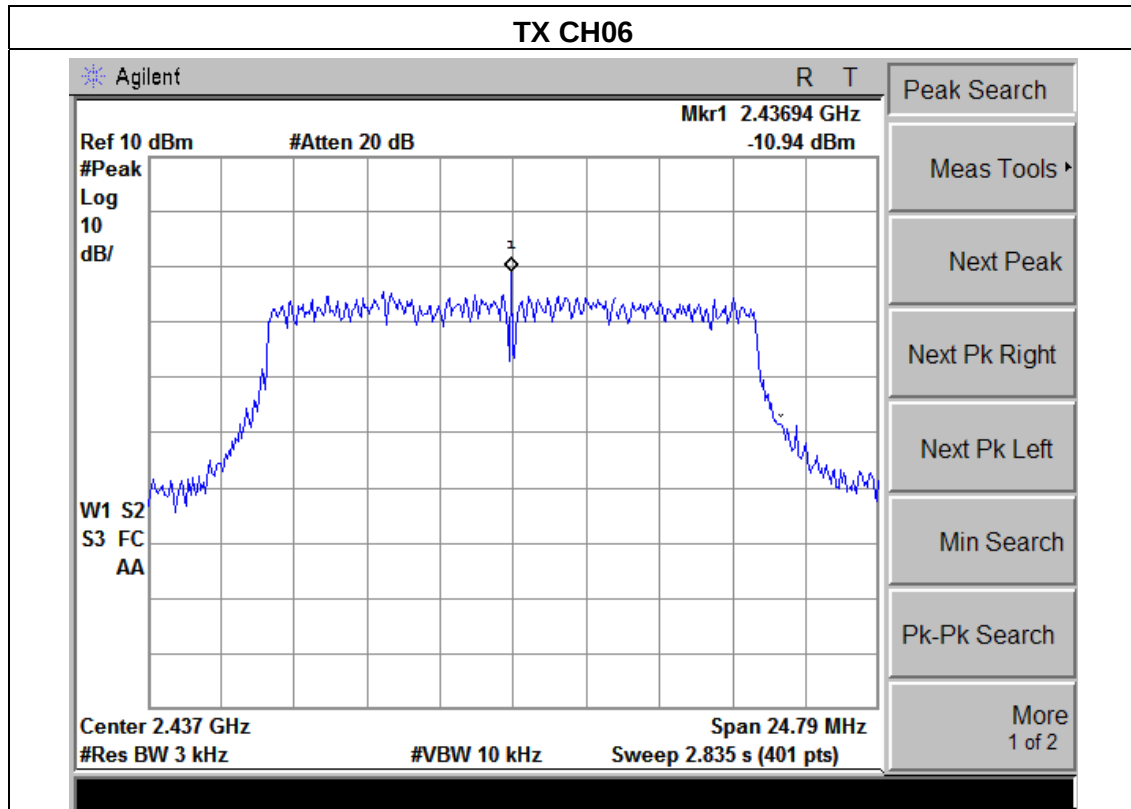


EUT :	300Mbps Dual Band Wireless N USB Adapter	Model Name :	JWL-D572R
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1015 hPa	Test Voltage :	DC 5.0V
Test Mode :	TX g Mode /CH01, CH06, CH11		

Frequency	Power Density A (dBm)	Power Density B (dBm)	Limit (dBm)	Result
2412 MHz	-10.49	-11.22	8	PASS
2437 MHz	-10.94	-12.32	8	PASS
2462 MHz	-11.66	-12.35	8	PASS

NOTE: A(B) Represent the value of antennaA and B,The worst data is A Antenna a ,only shown Antenna A Plot.



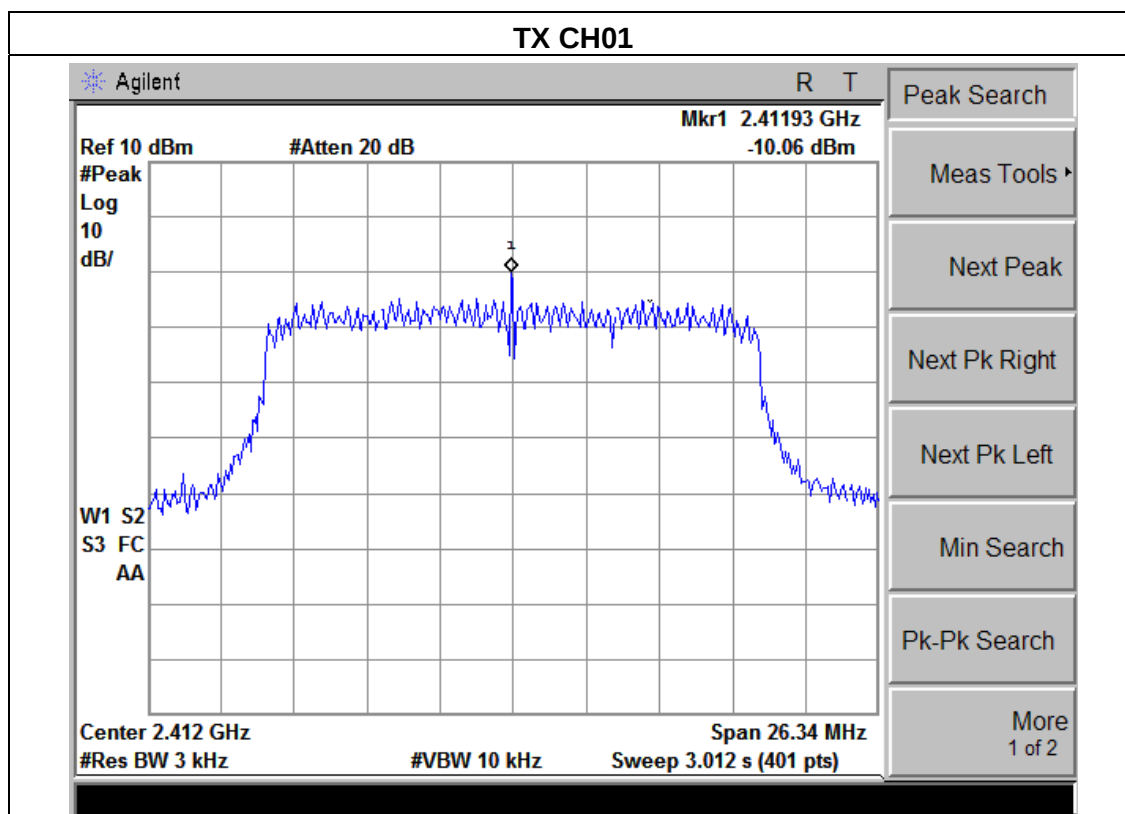


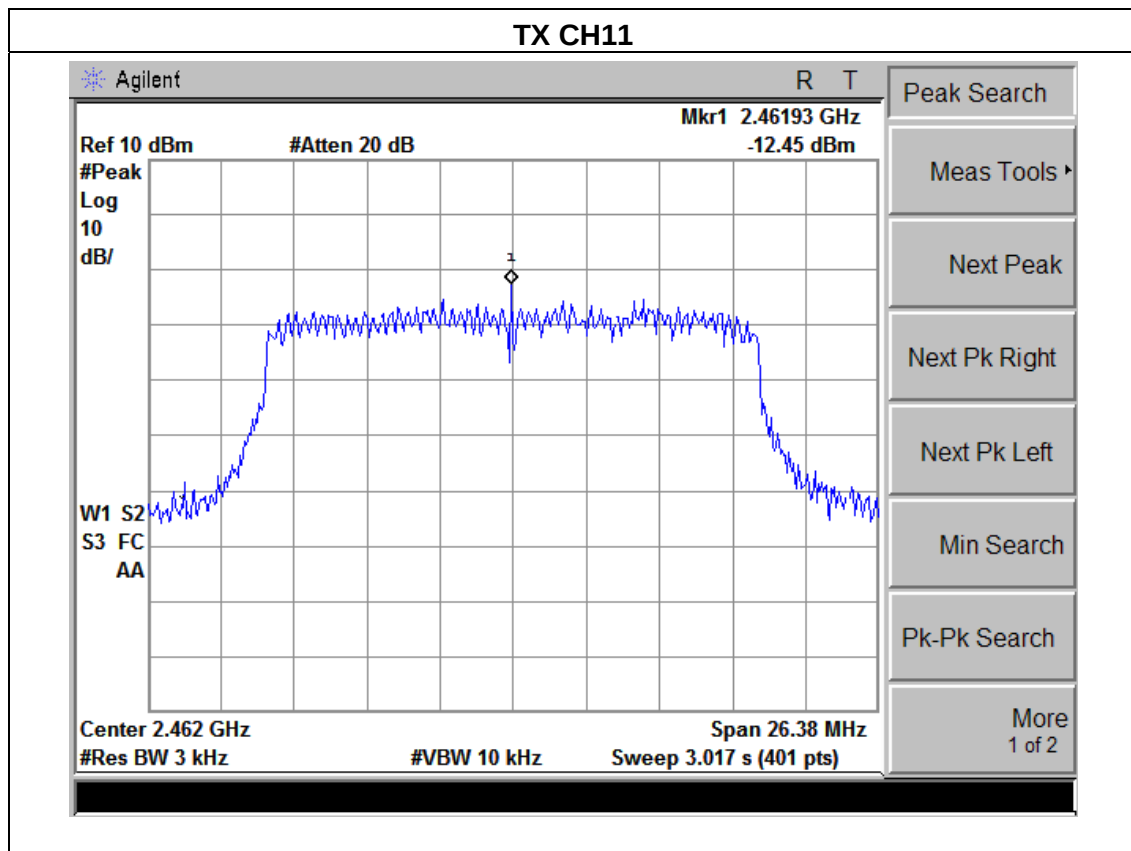
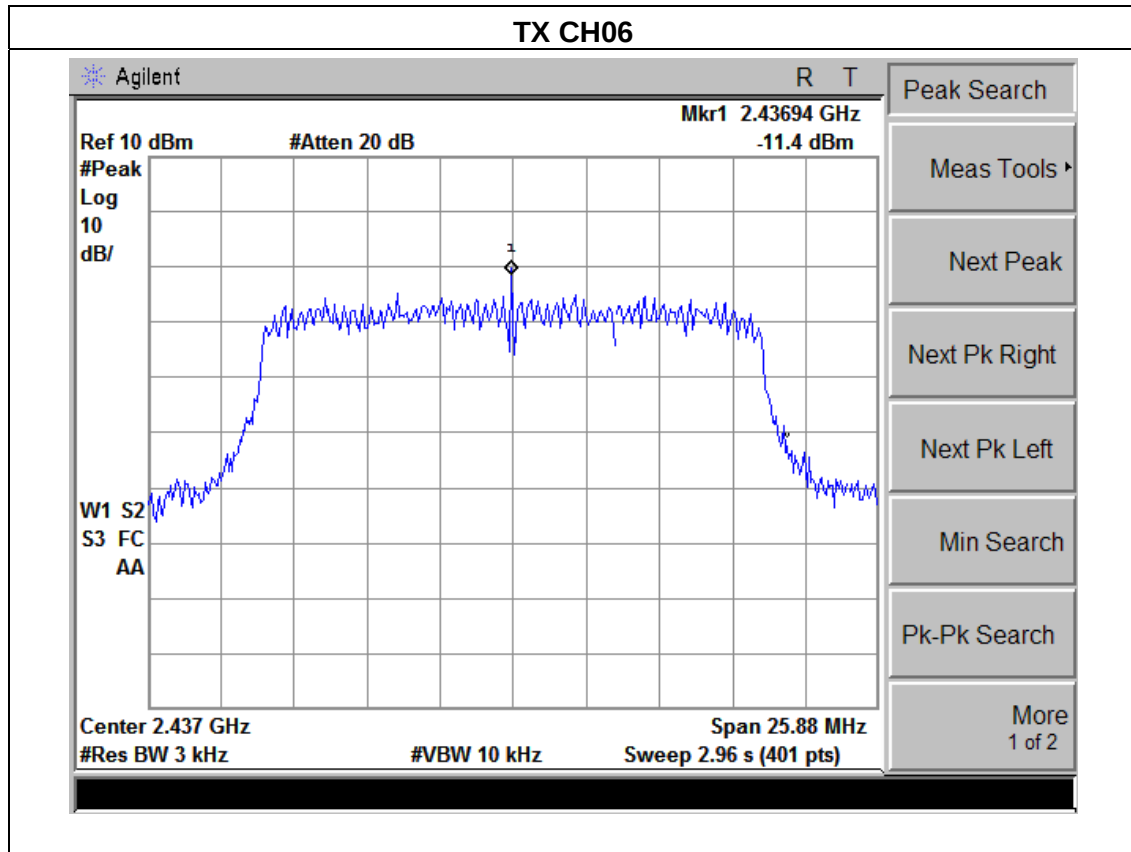
EUT :	300Mbps Dual Band Wireless N USB Adapter	Model Name :	JWL-D572R
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1015 hPa	Test Voltage :	DC 5.0V
Test Mode :	TX n Mode(20M) /CH01, CH06, CH11		

Frequency	Power Density A (dBm)	Power Density B (dBm)	Power Density (dBm)	Limit (dBm)	Result
2412 MHz	-10.06	-12.14	-7.97	8	PASS
2437 MHz	-11.40	-12.56	-8.93	8	PASS
2462 MHz	-12.45	-13.21	-9.80	8	PASS

Note:

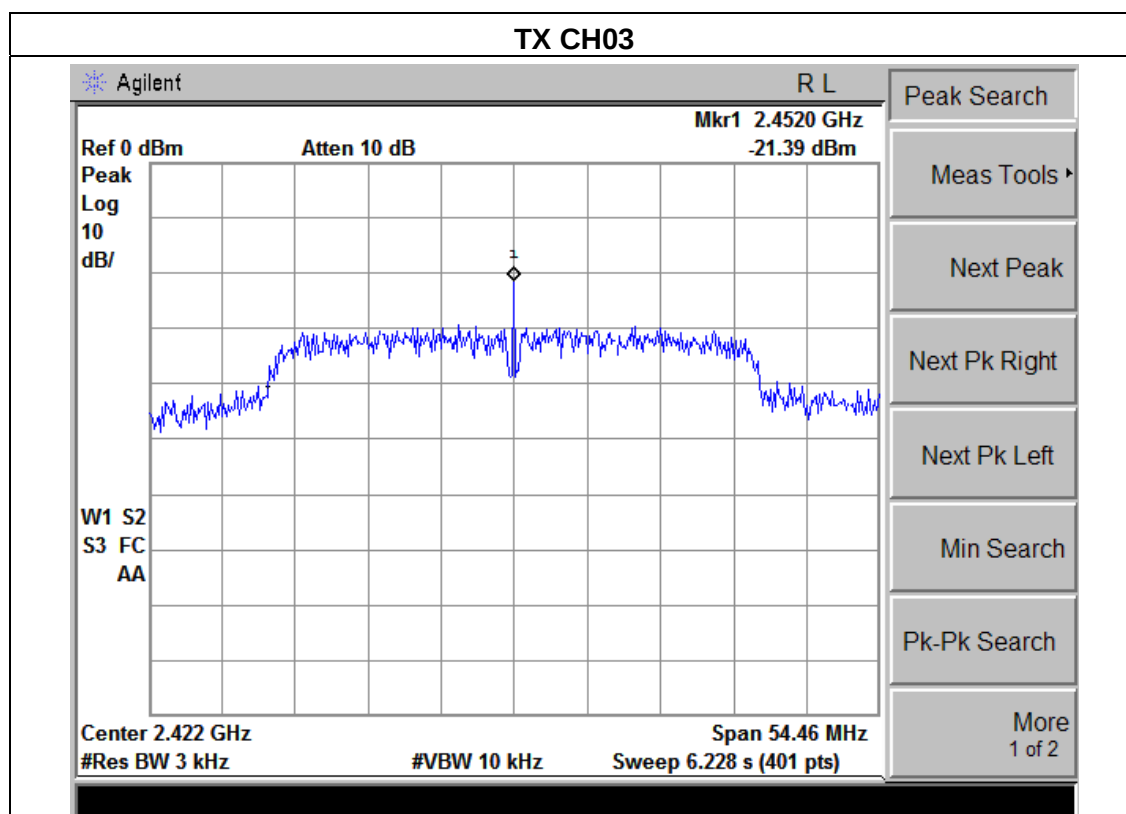
A(B) Represent the value of antennaA and B,The worst data is A Antenna a ,only shown Antenna A Plot.

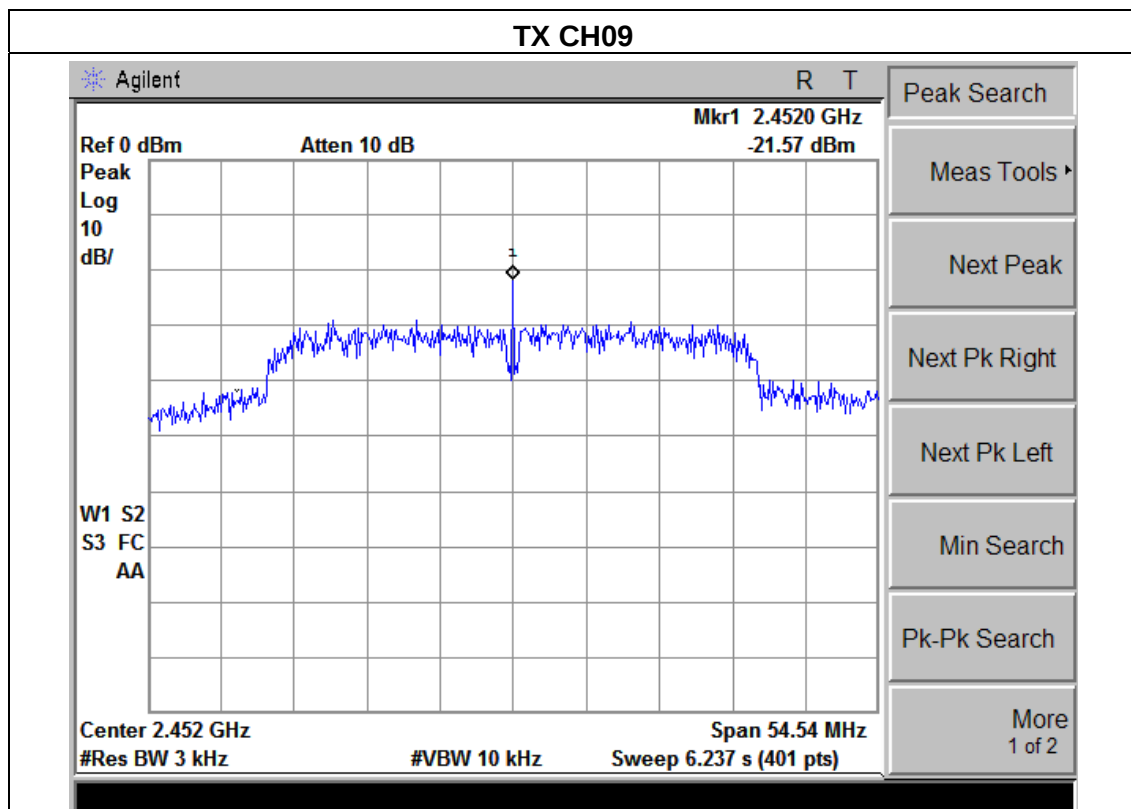
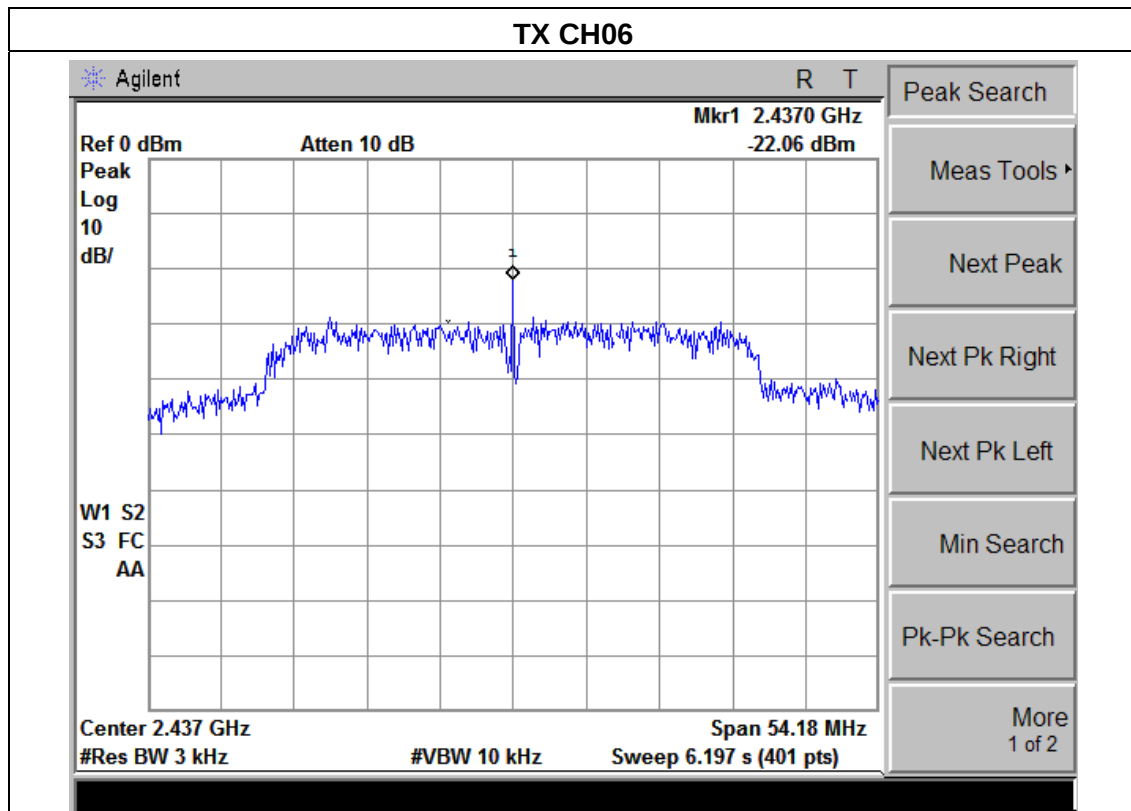




EUT :	300Mbps Dual Band Wireless N USB Adapter	Model Name :	JWL-D572R
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1015 hPa	Test Voltage :	DC 5.0V
Test Mode :	TX n Mode(40M) /CH03, CH06, CH09		

Frequency	Power Density A (dBm)	Power Density B (dBm)	Power Density (dBm)	Limit (dBm)	Result
2422 MHz	-21.39	-22.04	-18.69	8	PASS
2437 MHz	-22.06	-22.43	-19.23	8	PASS
2452 MHz	-21.57	-22.06	-18.80	8	PASS



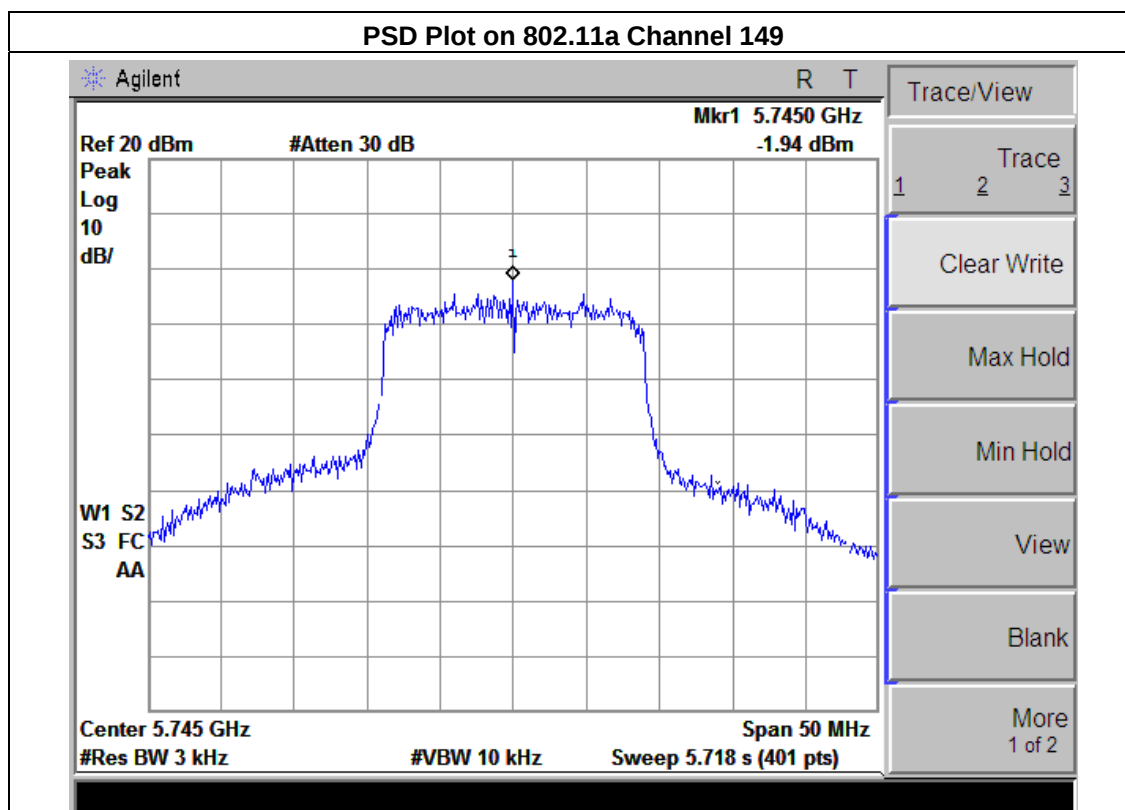


EUT :	300Mbps Dual Band Wireless N USB Adapter	Model Name :	JWL-D572R
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1015 hPa	Test Voltage :	DC 5.0V from PC AC 120V/60Hz
Test Mode :	TX a Mode		

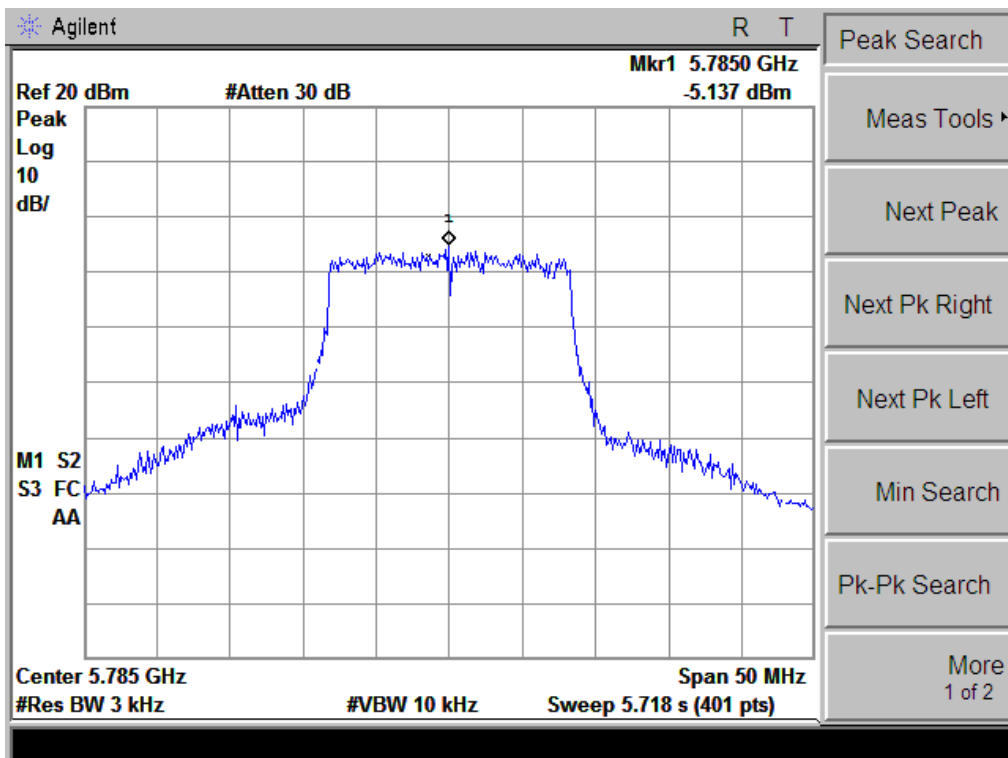
Channel	Frequency	802.11a Measured PSD (dBm)/A	802.11a Measured PSD (dBm)/B	Limit (dBm)	Result
149	5745	1.999	-1.102	8	PASS
157	5785	1.421	-1.312	8	PASS
164	5825	0.911	-1.098	8	PASS

Note:

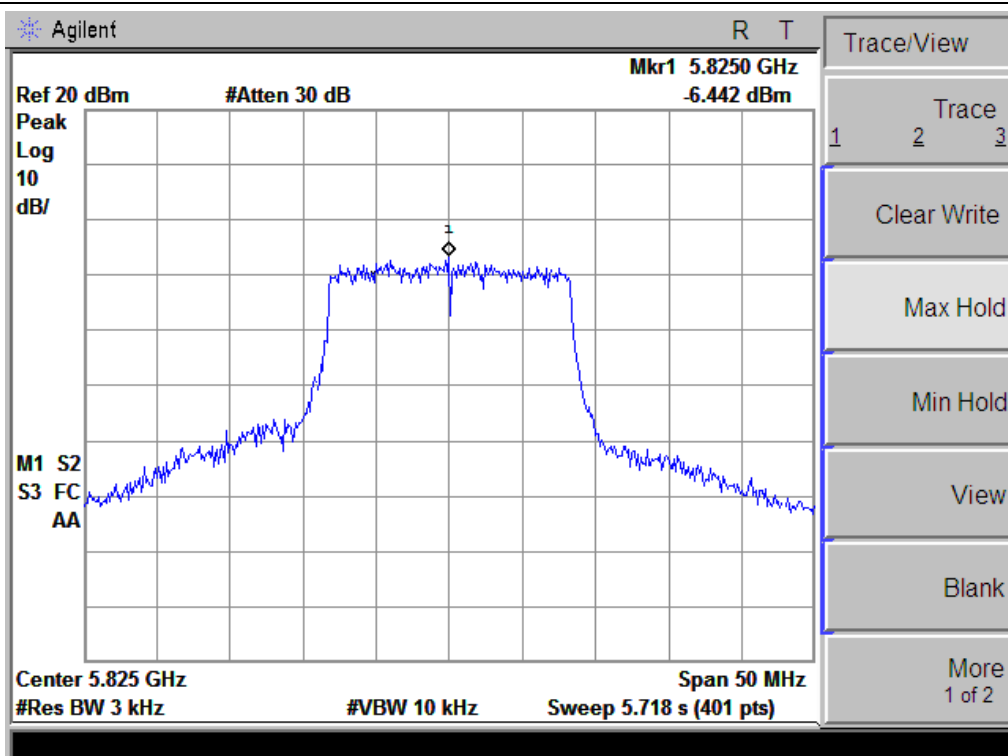
A(B) Represent the value of antennaA and B,The worst data is A Antenna a ,only shown Antenna A Plot.



PSD Plot on 802.11a Channel 157



PSD Plot on 802.11a Channel 161

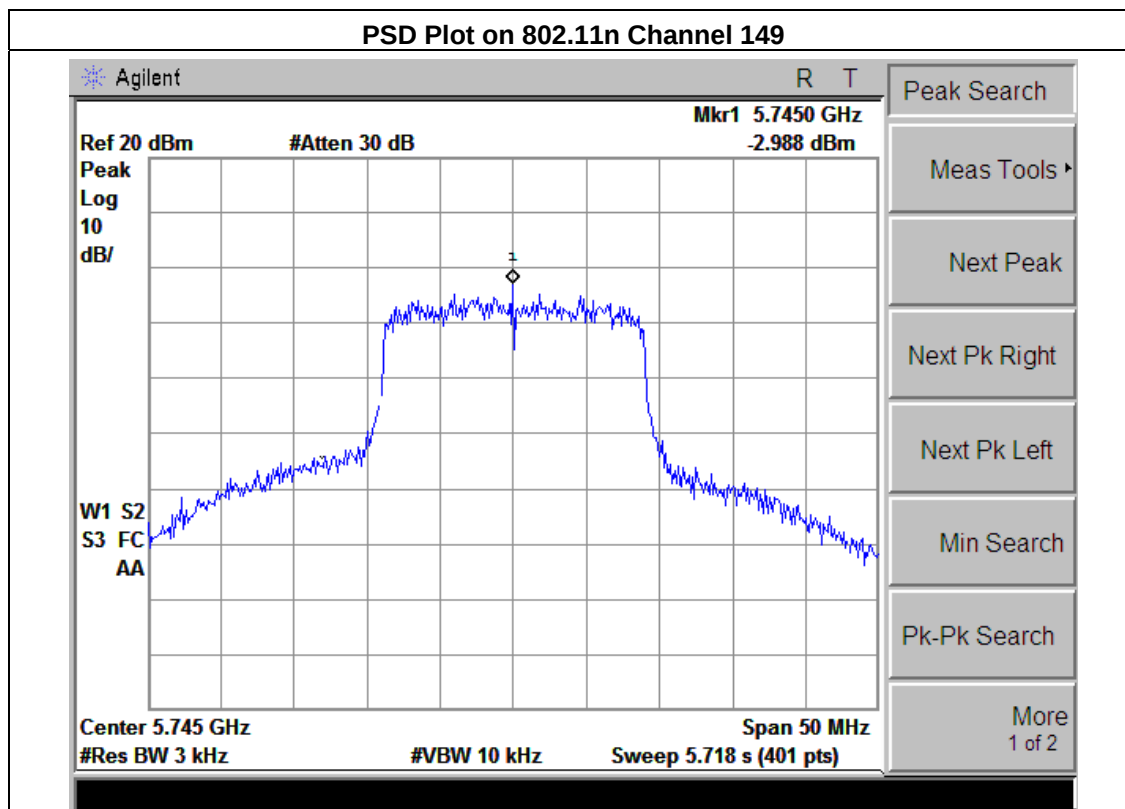


EUT :	300Mbps Dual Band Wireless N USB Adapter	Model Name :	JWL-D572R
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1015 hPa	Test Voltage :	DC 5.0V from PC AC 120V/60Hz
Test Mode :	TX n Mode(20)		

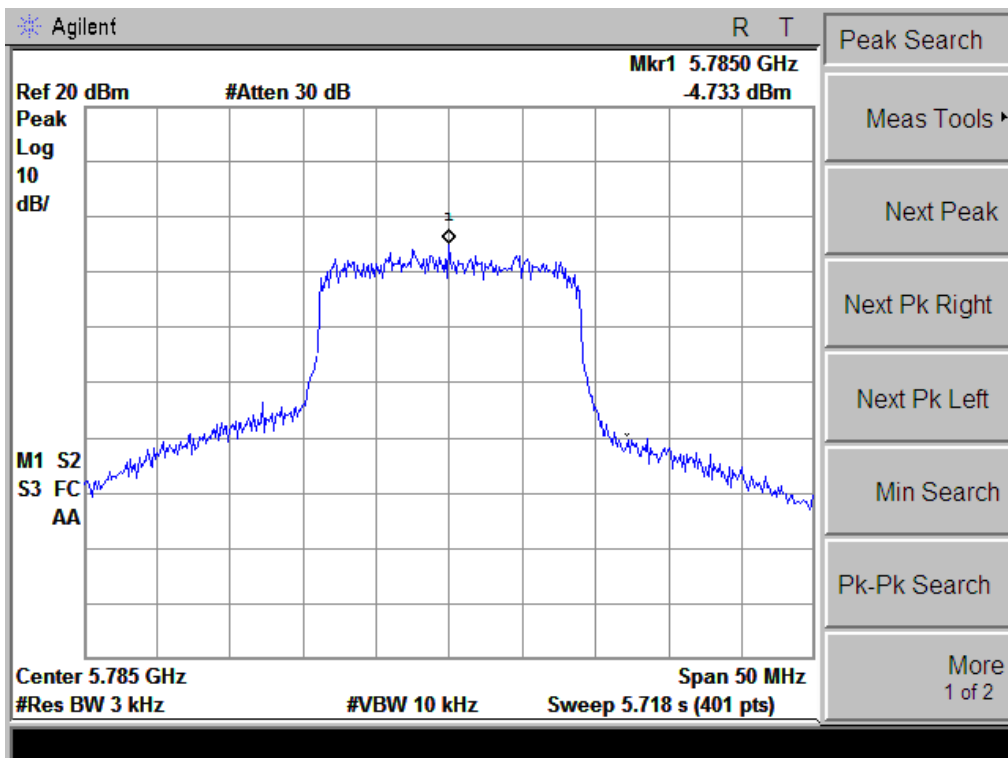
Channel	Frequency	802.11n Measured PSD (dBm)/A	802.11n Measured PSD (dBm)/B	802.11n Measured PSD	Limit (dBm)	Result
149	5745	2.885	-1.122	3.65	8	PASS
157	5785	2.250	-1.321	3.16	8	PASS
164	5825	-0.533	-1.129	2.19	8	PASS

Note:

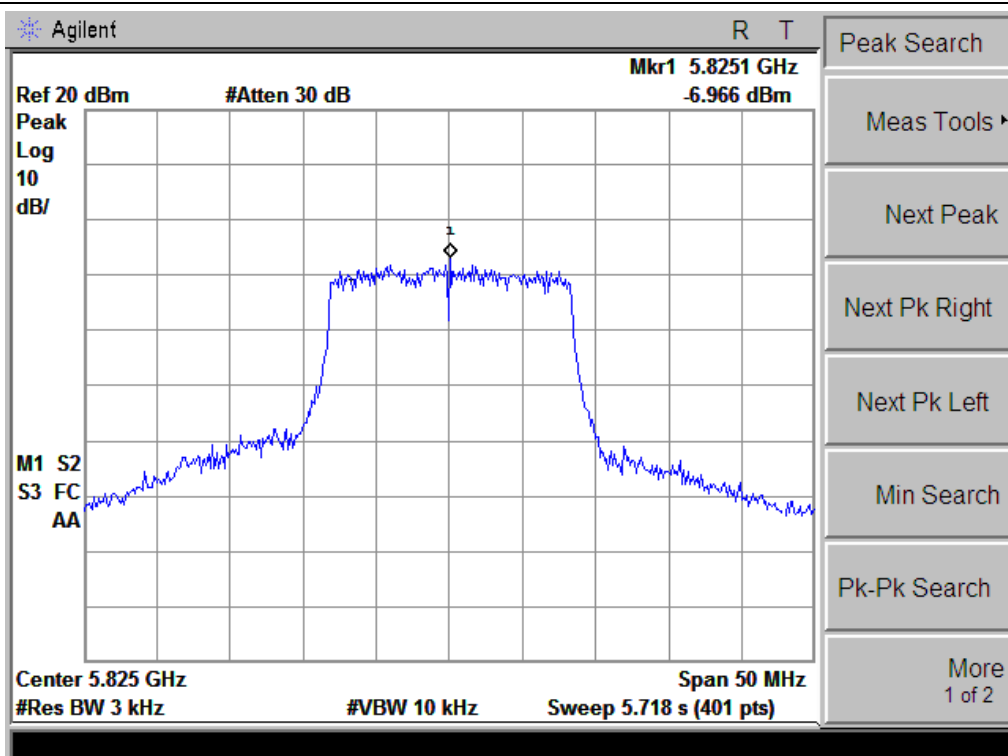
A(B) Represent the value of antennaA and B, The worst data is A Antenna a ,only shown Antenna A Plot.



PSD Plot on 802.11n Channel 157



PSD Plot on 802.11n Channel 161

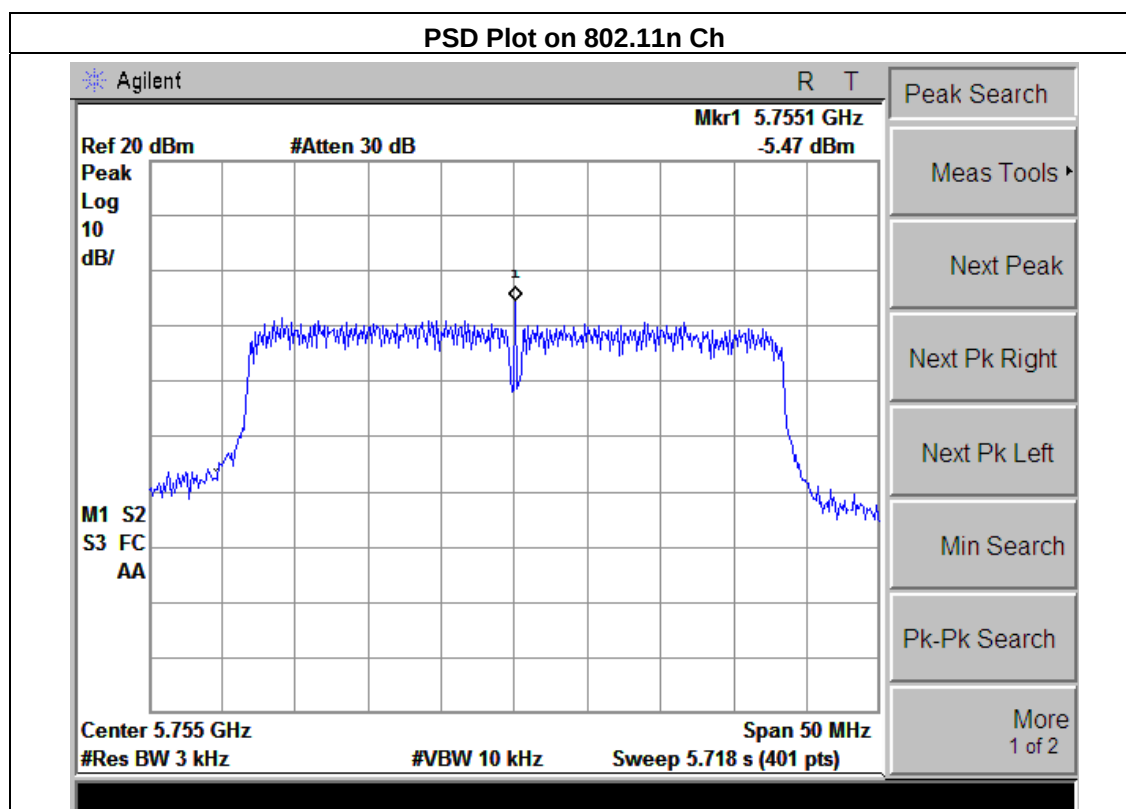


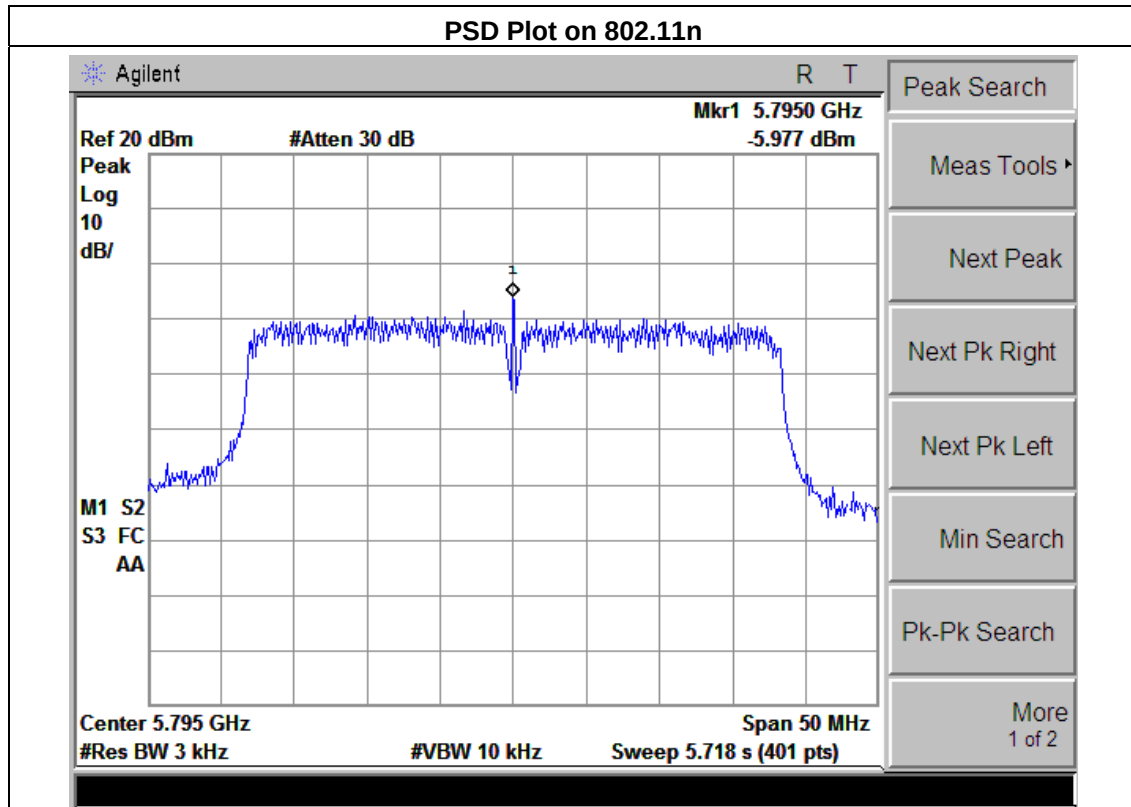
EUT :	300Mbps Dual Band Wireless N USB Adapter	Model Name :	JWL-D572R
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1015 hPa	Test Voltage :	DC 5.0V from PC AC 120V/60Hz
Test Mode :	TX n Mode(40)		

Frequency	802.11n Measured PSD (dBm)/A	802.11n Measured PSD (dBm)/B	802.11n Measured PSD	Limit (dBm)	Result
5755	3.81	1.21	5.71	8	PASS
5795	4.07	1.01	5.81	8	PASS

Note:

A(B) Represent the value of antennaA and B,The worst data is A Antenna a ,only shown Antenna A Plot.





5. BANDWIDTH TEST

5.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(a)(2)	Bandwidth	$\geq 500\text{KHz}$ (6dB bandwidth)	2400-2483.5 5745-5825	PASS

5.1.1 TEST PROCEDURE

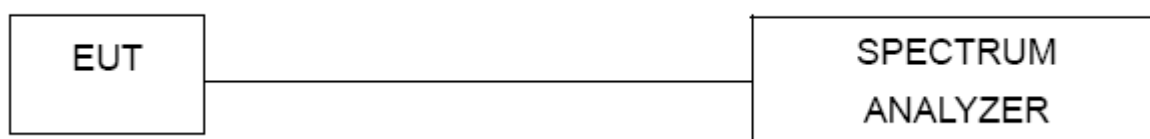
a.

1. Set resolution bandwidth (RBW) = 1-5% or DTS BW, not to exceed 100 kHz.
2. Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

5.1.2 DEVIATION FROM STANDARD

No deviation.

5.1.3 TEST SETUP



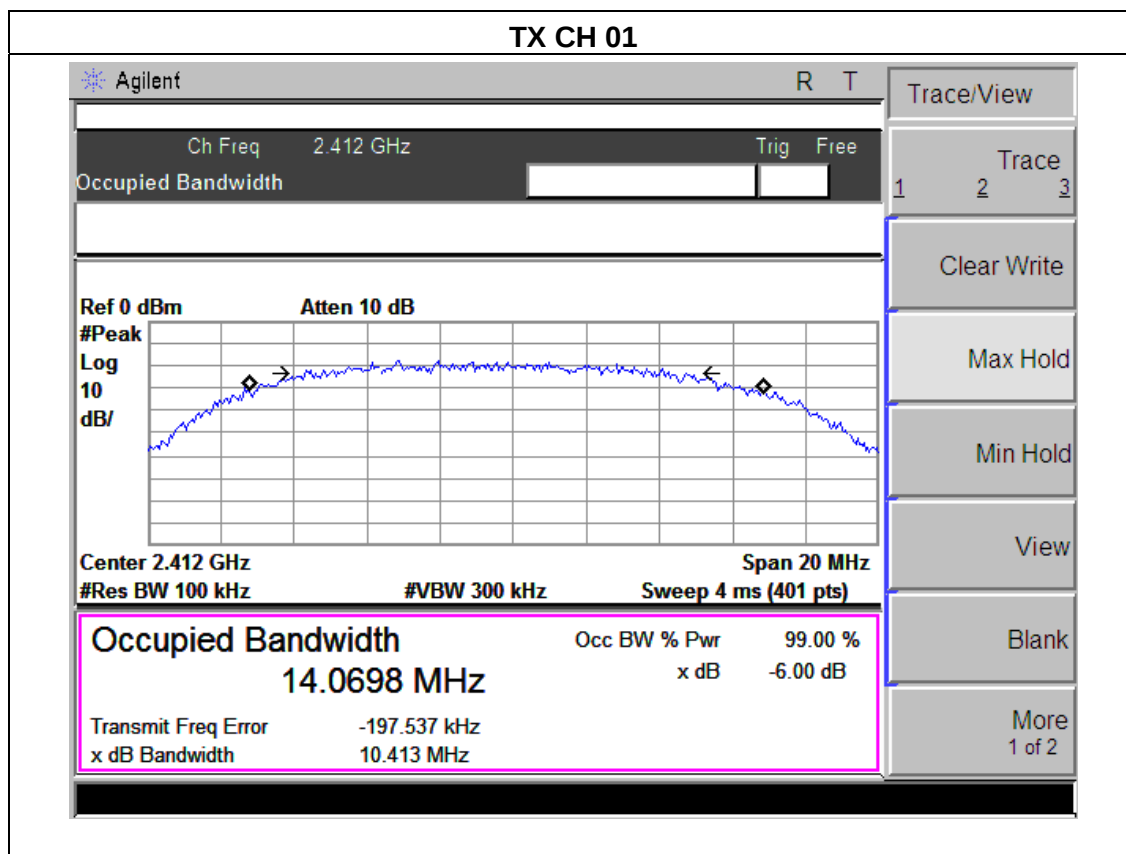
5.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

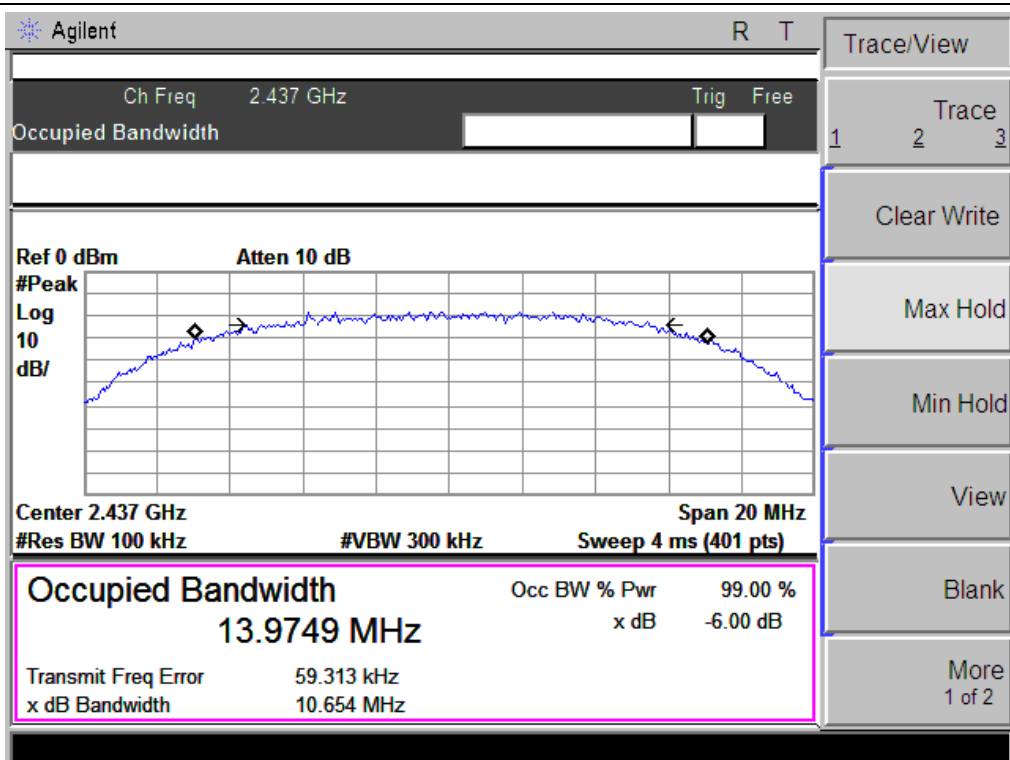
5.1.5 TEST RESULTS

EUT :	300Mbps Dual Band Wireless N USB Adapter	Model Name :	JWL-D572R
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	DC 5.0V
Test Mode :	TX b Mode /CH01, CH06, CH11		

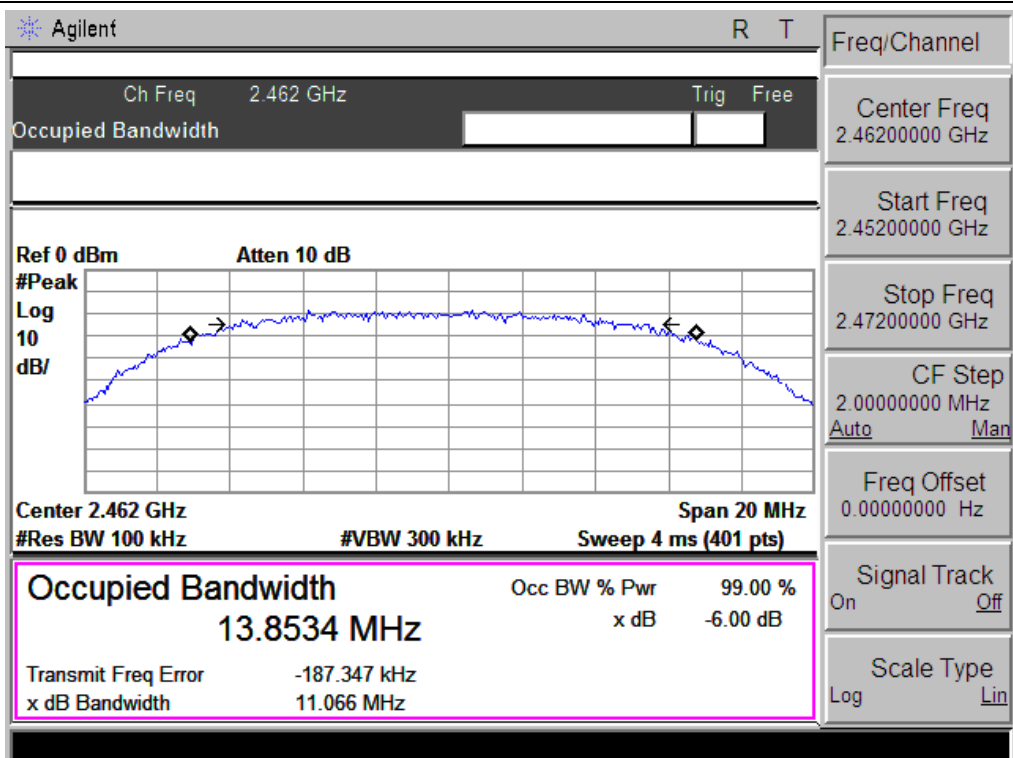
Frequency	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Channel Separation (MHz)	Result
2412 MHz	10.41	14.07	>=500KHz	PASS
2437 MHz	10.65	13.98	>=500KHz	PASS
2462 MHz	11.07	13.98	>=500KHz	PASS



TX CH 06

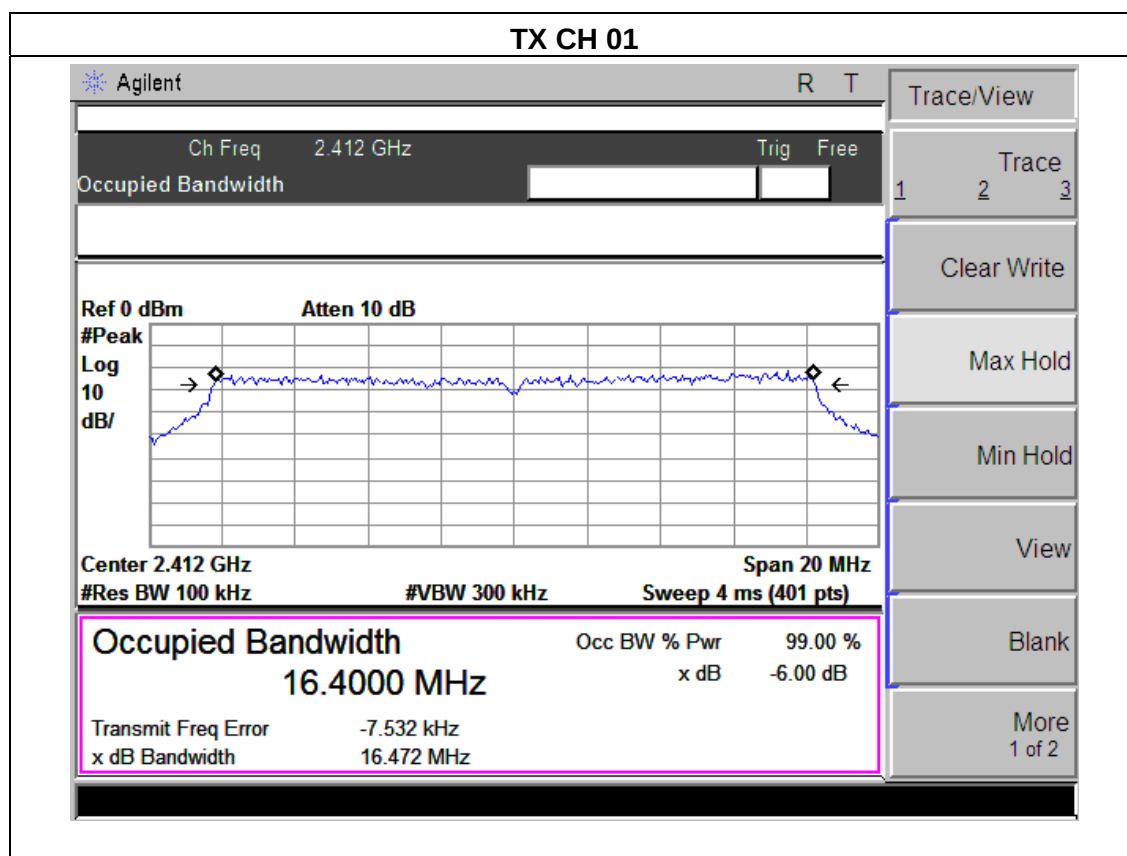


TX CH 11

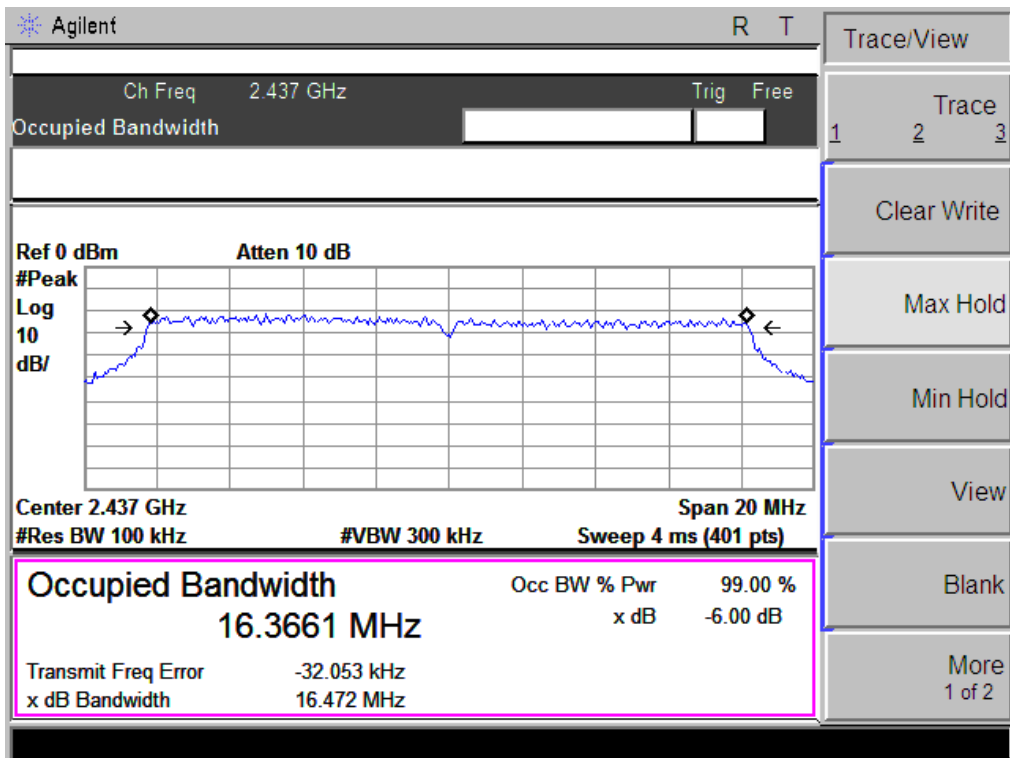


EUT :	300Mbps Dual Band Wireless N USB Adapter	Model Name :	JWL-D572R
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	DC 5.0V
Test Mode :	TX g Mode /CH01, CH06, CH11		

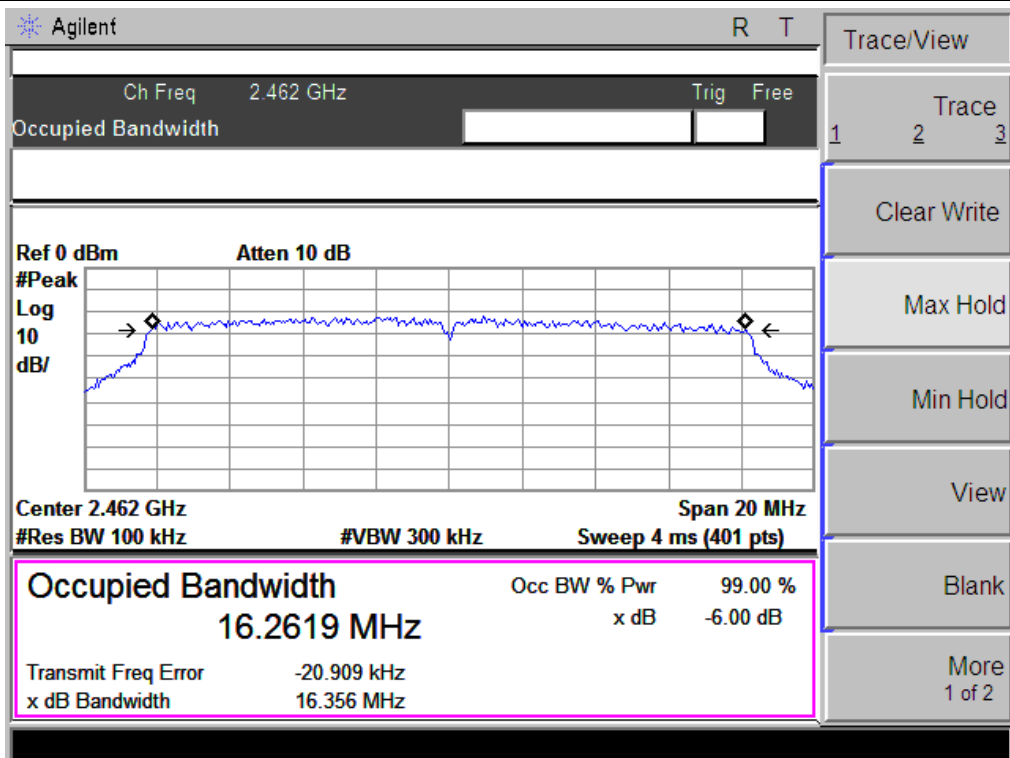
Frequency	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Channel Separation (MHz)	Result
2412 MHz	16.47	16.40	>=500KHz	PASS
2437 MHz	16.47	16.37	>=500KHz	PASS
2462 MHz	16.36	16.26	>=500KHz	PASS



TX CH 06

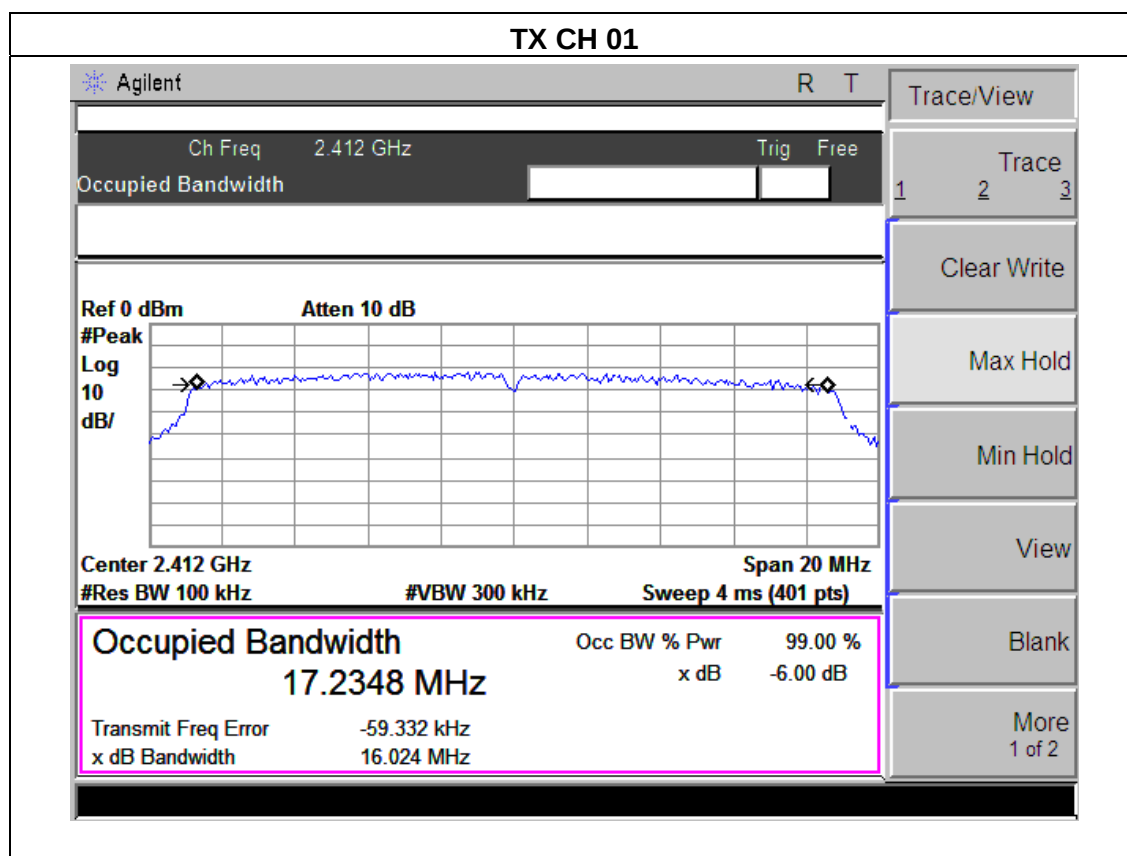


TX CH 11

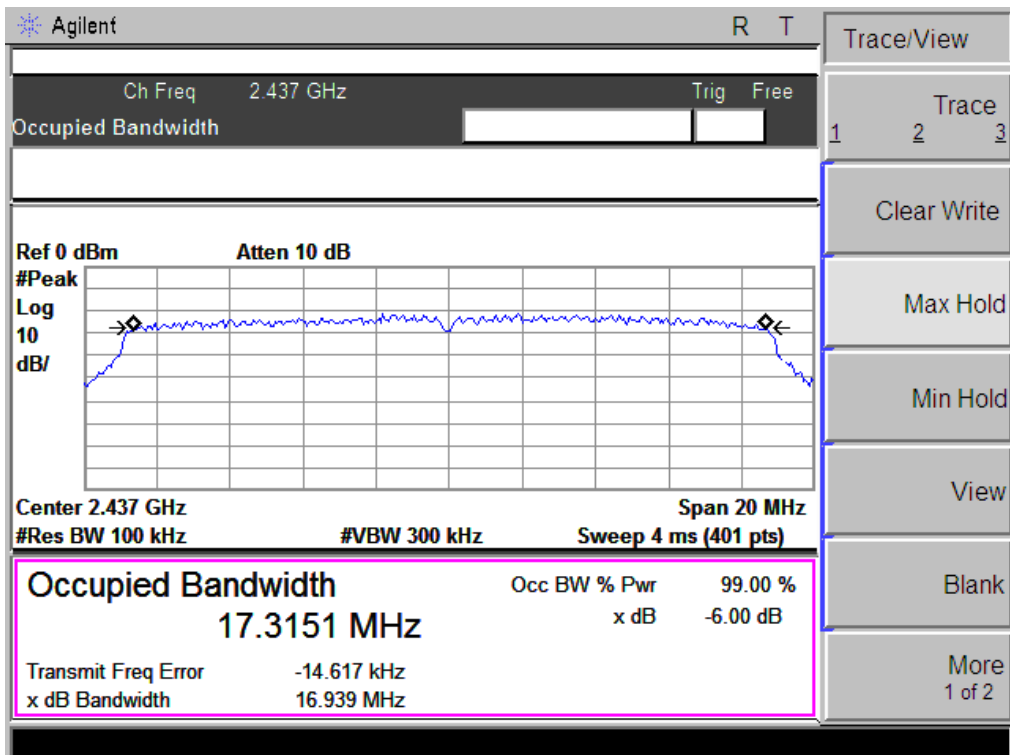


EUT :	300Mbps Dual Band Wireless N USB Adapter	Model Name :	JWL-D572R
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	DC 5.0V
Test Mode :	TX n Mode(20M) /CH01, CH06, CH11		

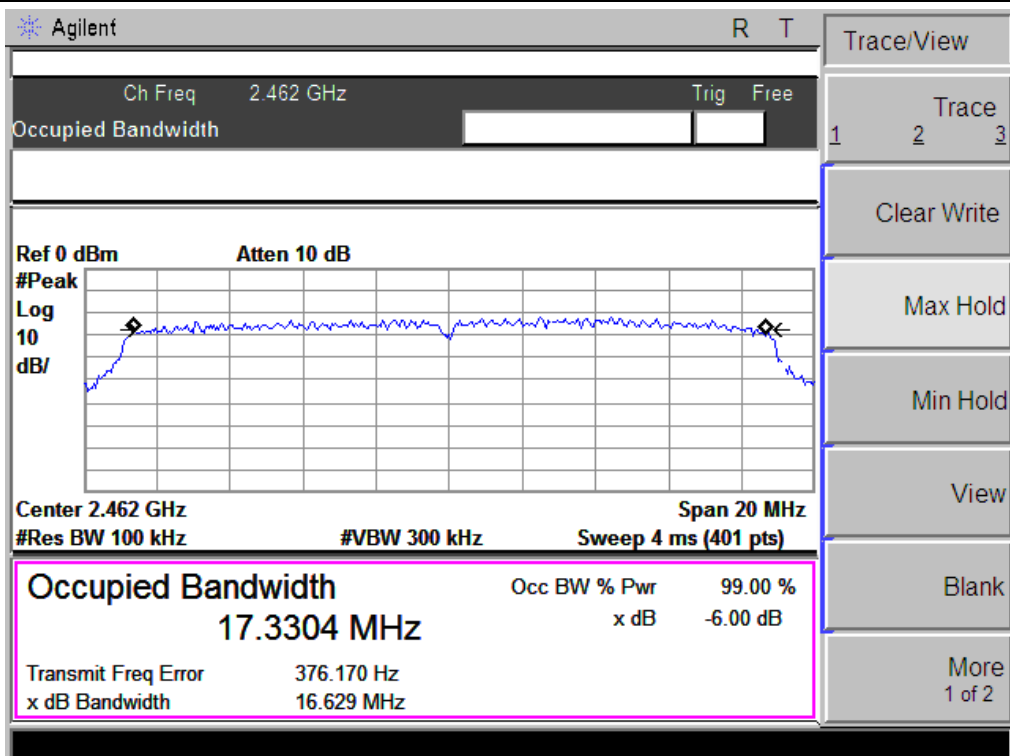
Frequency	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Channel Separation (MHz)	Result
2412 MHz	16.02	17.24	>=500KHz	PASS
2437 MHz	16.94	17.32	>=500KHz	PASS
2462 MHz	16.63	17.33	>=500KHz	PASS



TX CH 06

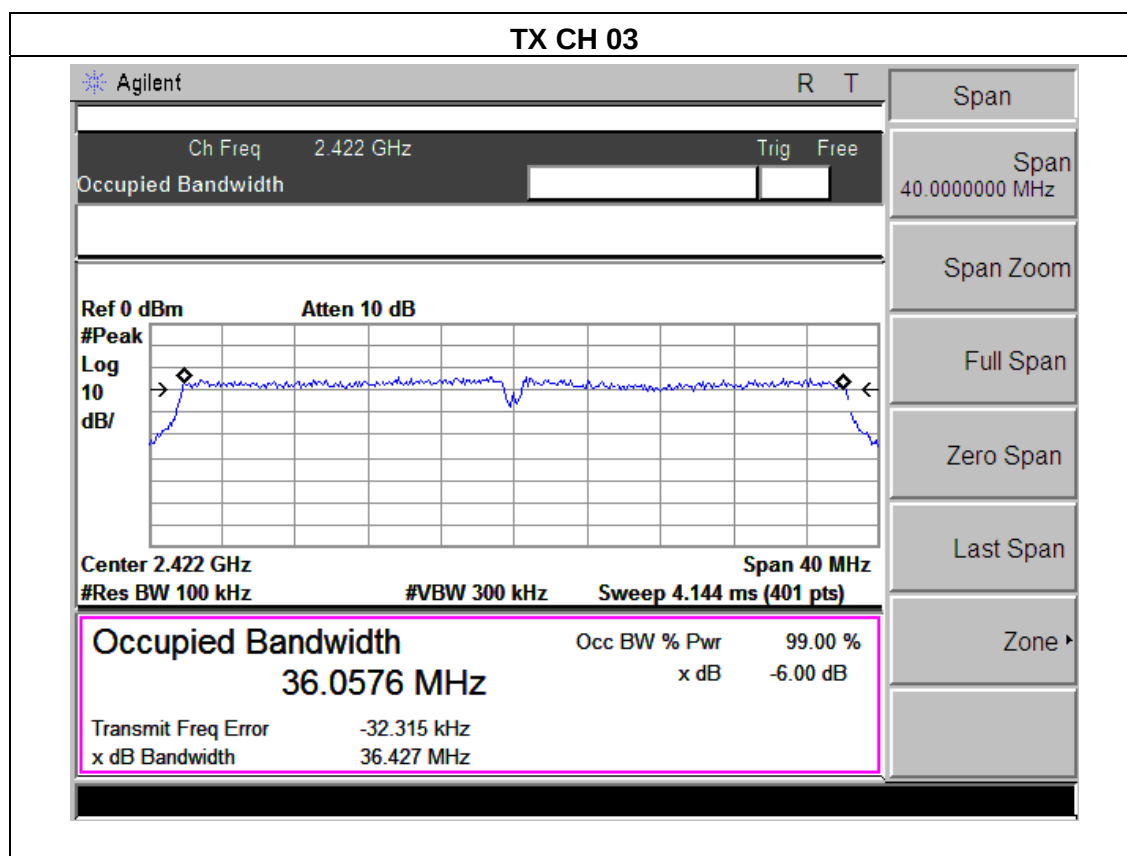


TX CH 11

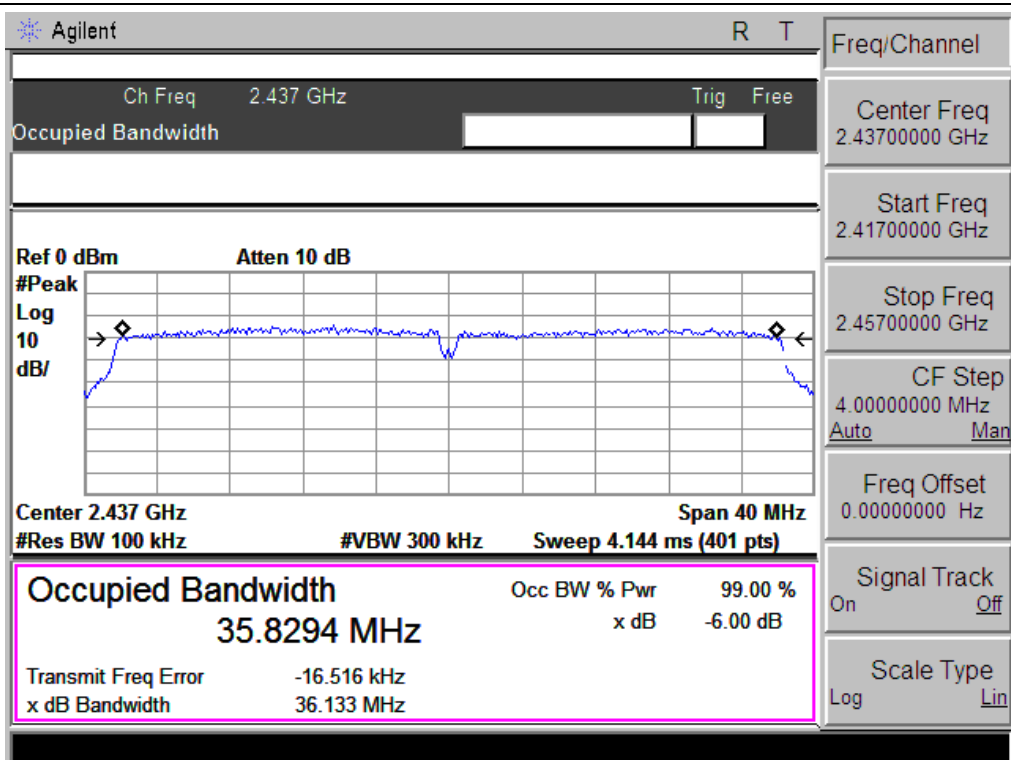


EUT :	300Mbps Dual Band Wireless N USB Adapter	Model Name :	JWL-D572R
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	DC 5.0V
Test Mode :	TX n Mode(40M) /CH03, CH06, CH09		

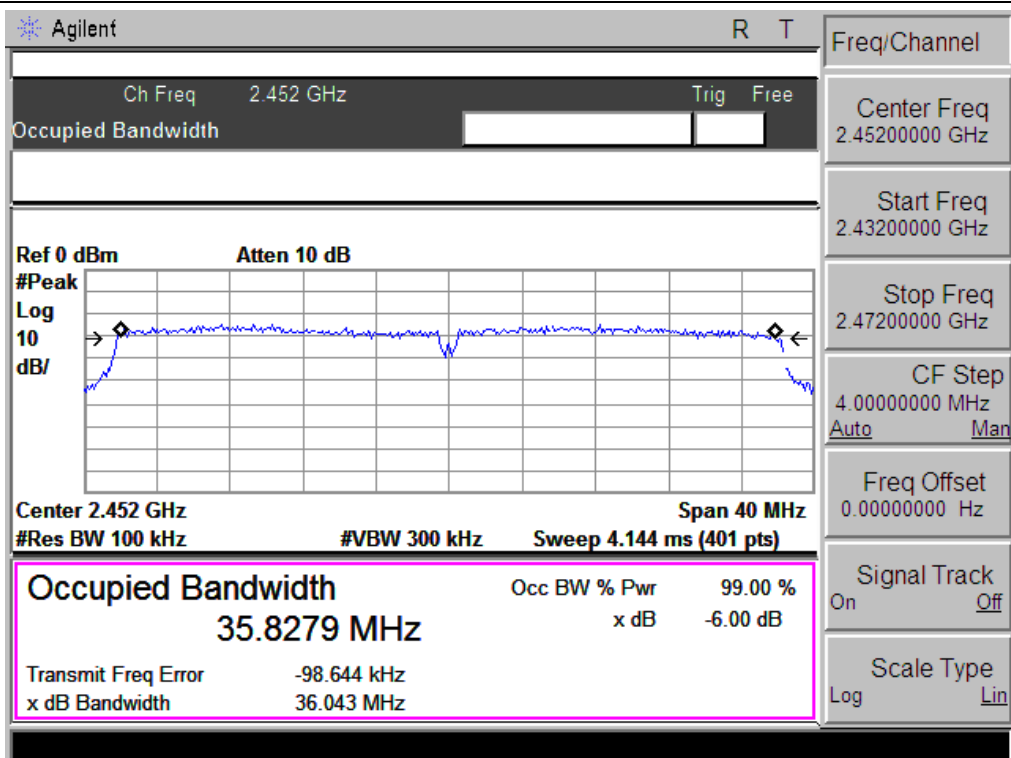
Frequency	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Channel Separation (MHz)	Result
2422 MHz	36.43	36.06	>=500KHz	PASS
2437 MHz	36.13	36.83	>=500KHz	PASS
2452 MHz	36.04	35.83	>=500KHz	PASS



TX CH 06

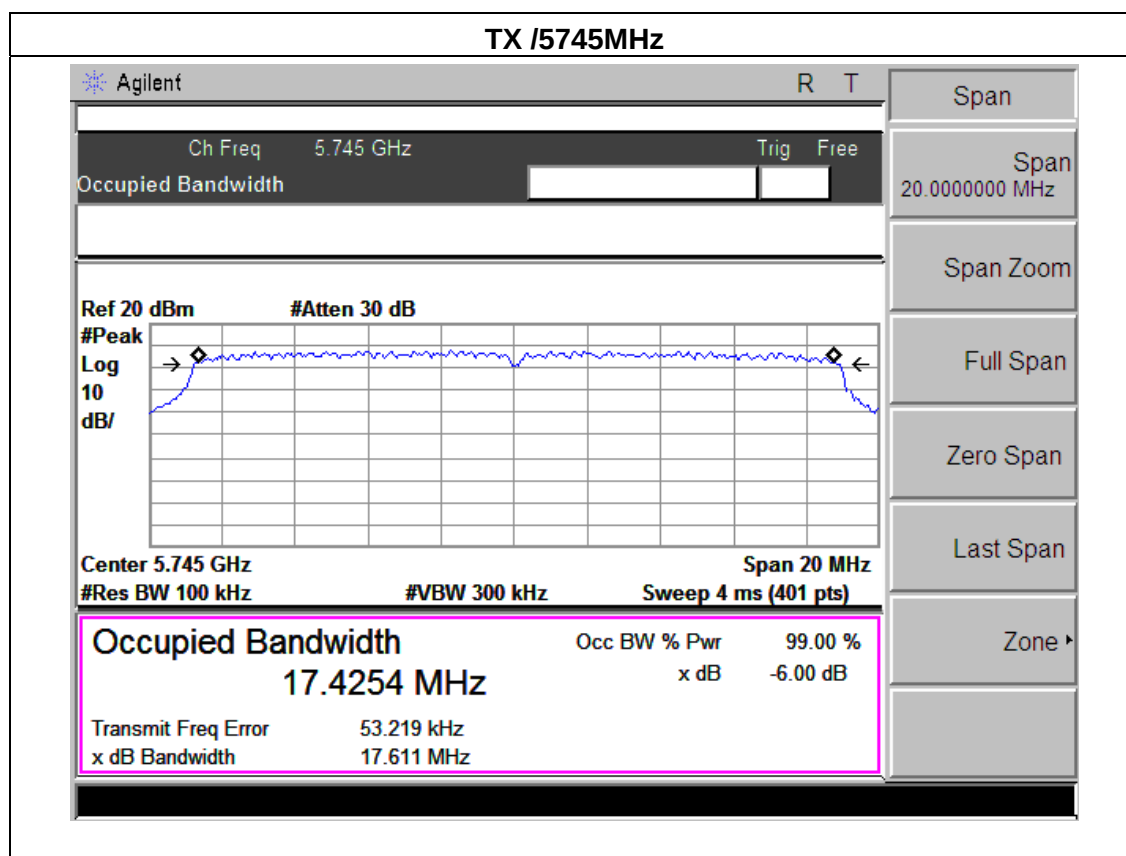


TX CH 09

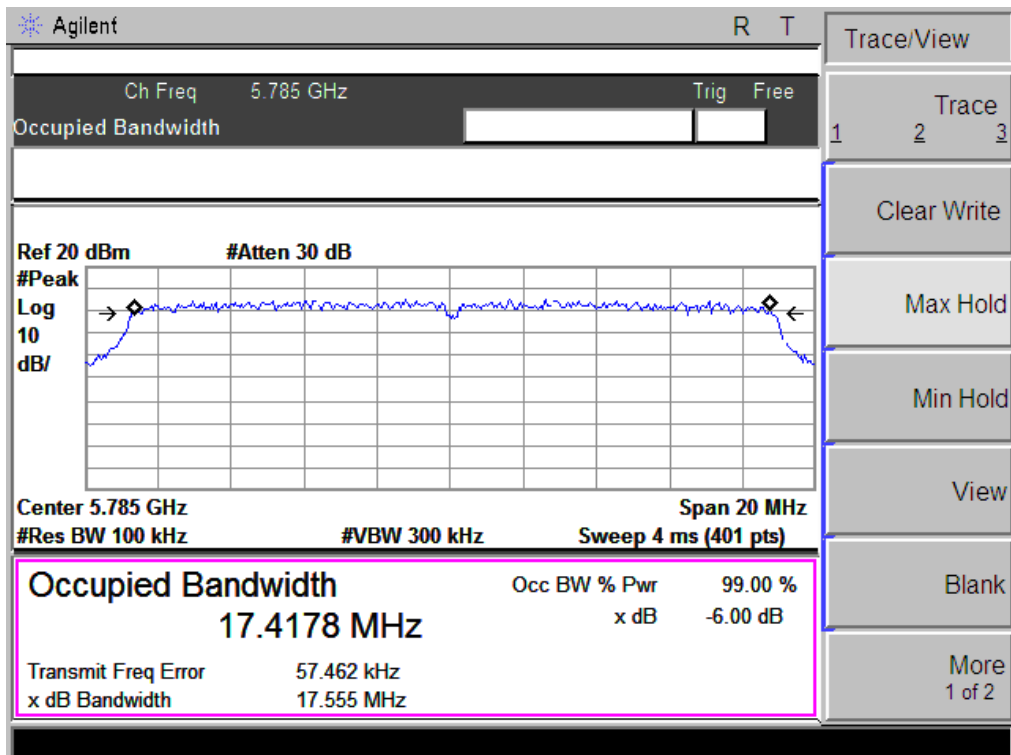


EUT :	300Mbps Dual Band Wireless N USB Adapter	Model Name :	JWL-D572R
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	DC 5.0V from PC AC 120V/60Hz
Test Mode :	TX a Mode		

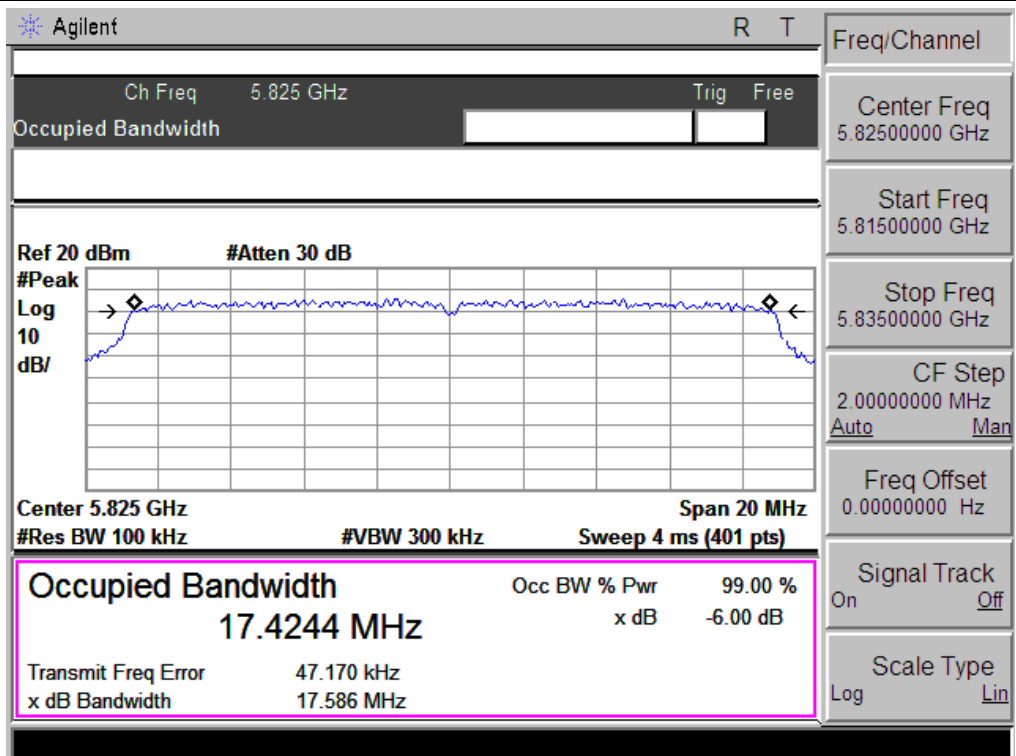
Frequency	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Channel Separation (MHz)	Result
5745 MHz	17.61	17.43	>=500KHz	PASS
5785 MHz	17.56	17.42	>=500KHz	PASS
5825 MHz	17.59	17.42	>=500KHz	PASS



TX /5785 MHz

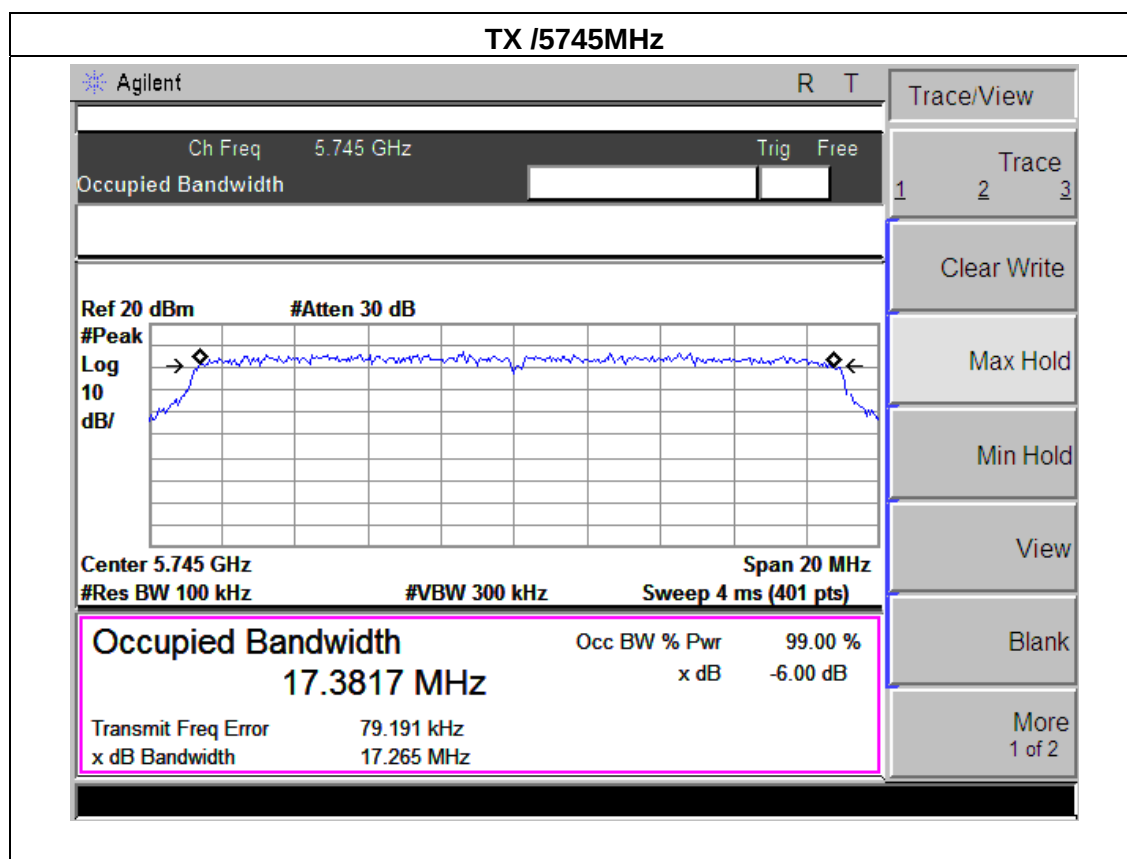


TX/5825MHz

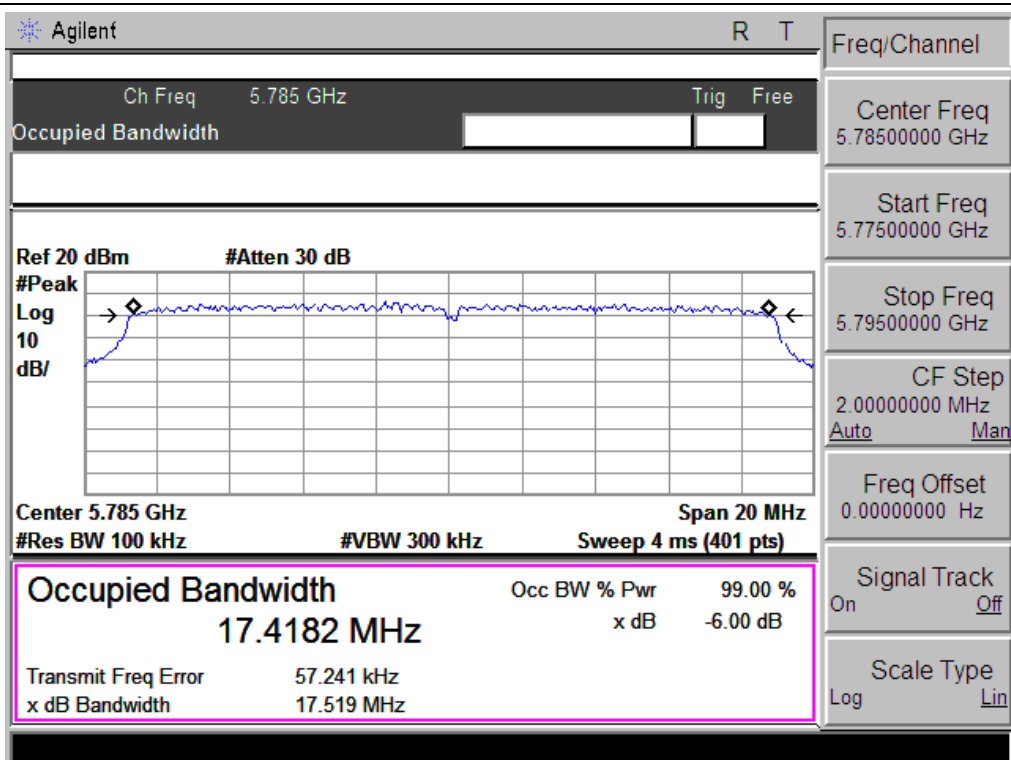


EUT :	300Mbps Dual Band Wireless N USB Adapter	Model Name :	JWL-D572R
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	DC 5.0V from PC AC 120V/60Hz
Test Mode :	TX n(20)		

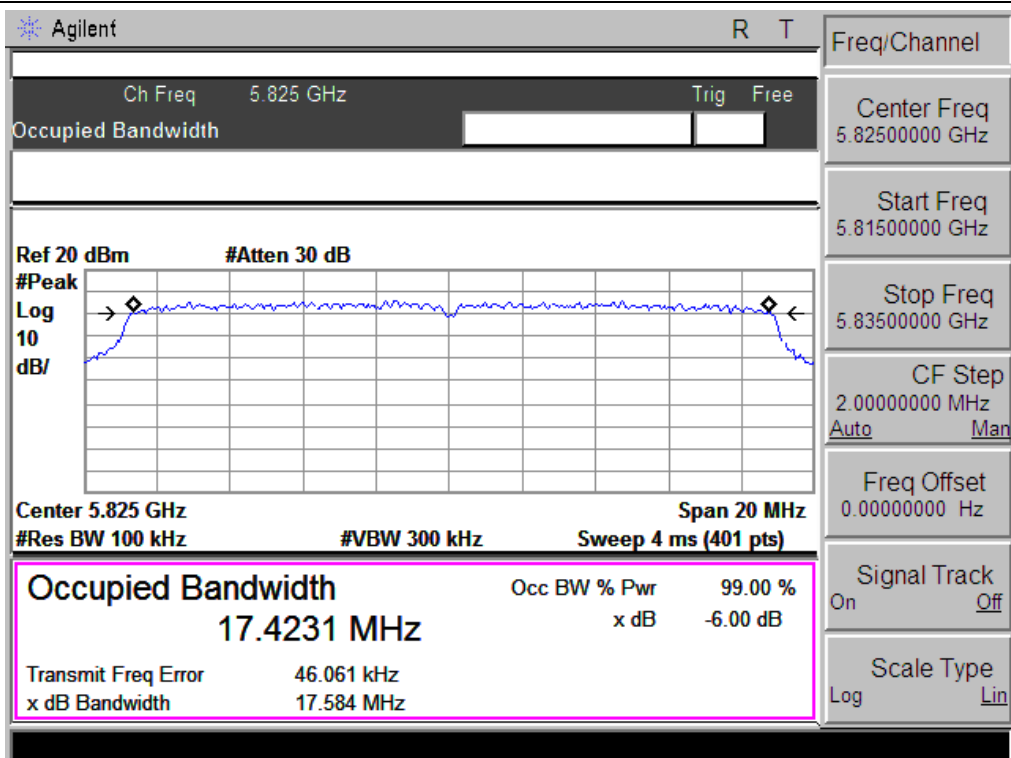
Frequency	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Channel Separation (MHz)	Result
5745 MHz	17.27	17.38	>=500KHz	PASS
5785 MHz	17.52	17.42	>=500KHz	PASS
5825 MHz	17.58	17.42	>=500KHz	PASS



TX /5785MHz

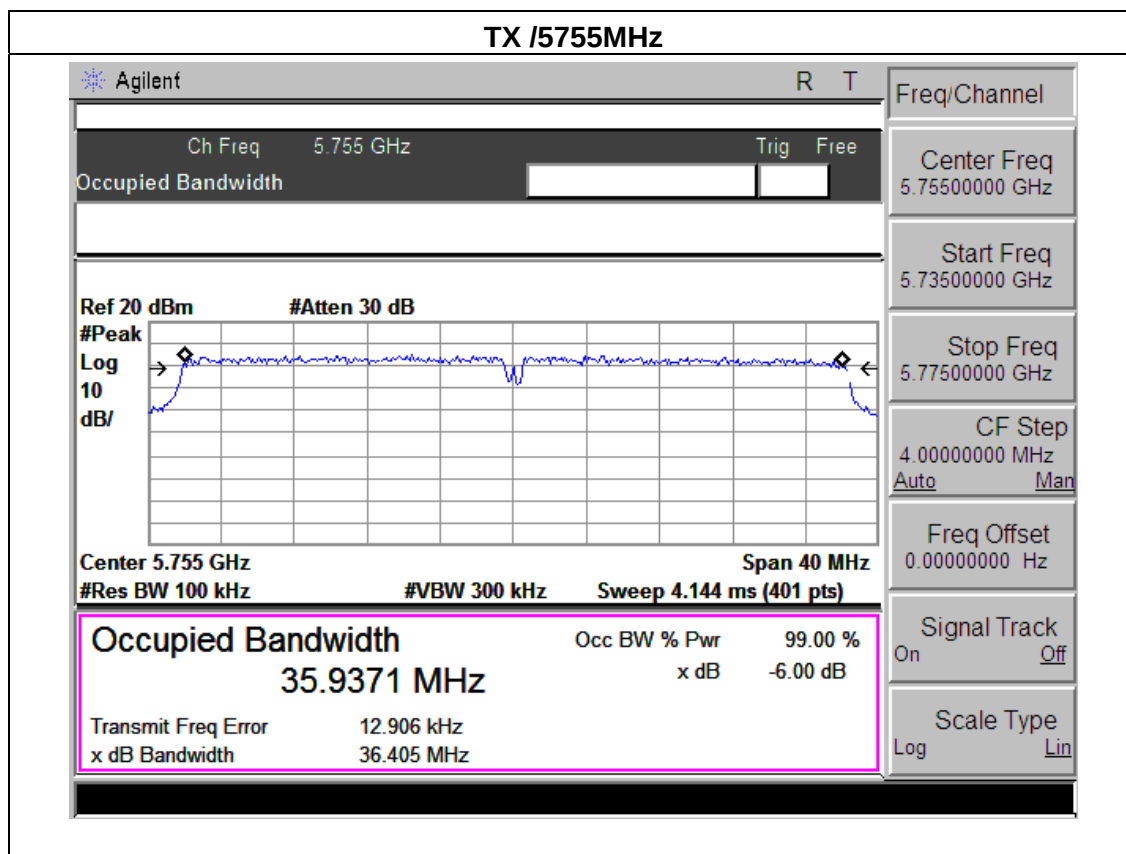


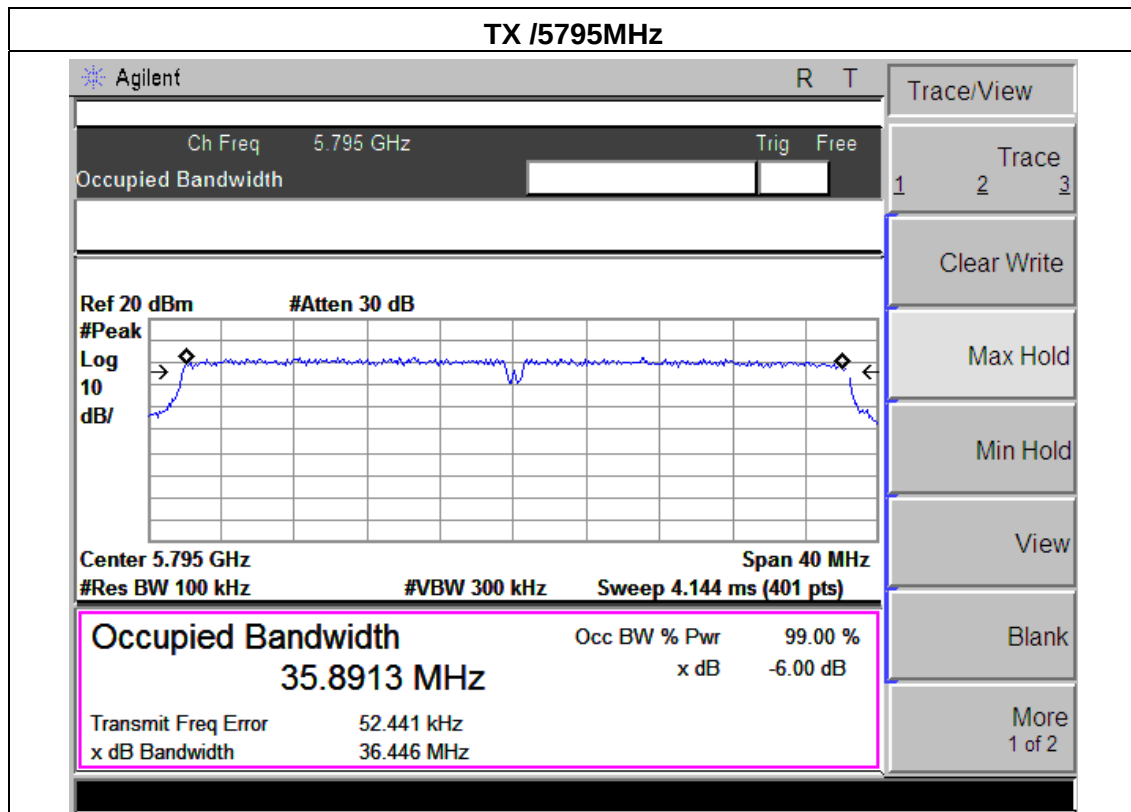
TX /5825MHz



EUT :	300Mbps Dual Band Wireless N USB Adapter	Model Name :	JWL-D572R
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	DC 5.0V from PC AC 120V/60Hz
Test Mode :	TX n(40)		

Frequency	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Channel Separation (MHz)	Result
5755 MHz	36.41	35.94	>=500KHz	PASS
5795 MHz	36.45	35.89	>=500KHz	PASS





6. PEAK OUTPUT POWER TEST

6.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(b)(3)	Peak Output Power	1 watt or 30dBm	2400-2483.5 5745-5825	PASS

6.1.1 TEST PROCEDURE

- a. The EUT was directly connected to the Power meter.

6.1.2 DEVIATION FROM STANDARD

No deviation.

6.1.3 TEST SETUP



6.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

6.1.5 TEST RESULTS

EUT :	300Mbps Dual Band Wireless N USB Adapter	Model Name :	JWL-D572R
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	DC 5.0V
Test Mode :	TX b/g/n(20M,40M) Mode /CH01, CH06, CH11		

802.11b Mode(PK)

Test Channe	Frequency	Output Power/A	Output Power/B	Total Output Power	LIMIT
	(MHz)	dBm	dBm	dBm	dBm
CH01	2412	12.12	12.43	N/A	30
CH06	2437	12.56	12.21	N/A	30
CH11	2462	12.73	12.14	N/A	30

802.11g Mode(PK)

CH01	2412	10.55	10.54	N/A	30
CH06	2437	10.68	10.42	N/A	30
CH11	2462	10.76	10.31	N/A	30

802.11n(20) Mode(PK)

CH01	2412	10.69	10.45	13.58	30
CH06	2437	10.79	10.52	13.67	30
CH11	2462	10.54	10.19	13.38	30

802.11n(40) Mode(PK)

CH03	2422	9.88	9.67	12.79	30
CH06	2437	9.37	9.54	12.47	30
CH09	2452	9.67	9.32	12.51	30

802.11a Mode(PK)

Test Channe	Frequency	Output Power/A	Output Power/B	Total Output Power	LIMIT
	(MHz)	dBm	dBm	dBm	dBm
CH149	5745 MHz	7.06	7.53	10.31	30
CH157	5785 MHz	7.06	7.42	10.25	30
CH165	5825 MHz	7.78	7.33	10.57	30

802.11n(20) Mode(PK)

CH149	5745 MHz	7.34	7.32	10.34	30
CH157	5785 MHz	7.19	7.21	10.21	30
CH165	5825 MHz	7.40	7.22	10.32	30

802.11n(40) Mode(PK)

CH151	5755 MHz	7.69	7.45	10.58	30
CH159	5795 MHz	7.79	7.52	10.67	30

802.11b Mode(AV)					
Test Channel	Frequency	Output Power/A	Output Power/B	Total Output Power	LIMIT
	(MHz)	dBm	dBm	dBm	dBm
CH01	2412	9.78	9.43	N/A	30
CH06	2437	9.56	9.21	N/A	30
CH11	2462	9.71	9.18	N/A	30
802.11g Mode(AV)					
CH01	2412	8.55	8.54	N/A	30
CH06	2437	8.68	8.42	N/A	30
CH11	2462	8.76	8.31	N/A	30
802.11n(20) Mode(AV)					
CH01	2412	6.69	6.45	9.58	30
CH06	2437	6.79	6.52	9.67	30
CH11	2462	6.54	6.19	9.38	30
802.11n(40) Mode(AV)					
CH03	2422	6.54	6.43	9.50	30
CH06	2437	6.67	6.54	9.62	30
CH09	2452	6.67	6.46	9.58	30

802.11a Mode(AV)					
Test Channel	Frequency	Output Power/A	Output Power/B	Total Output Power	LIMIT
	(MHz)	dBm	dBm	dBm	dBm
CH149	5745 MHz	3.16	3.53	6.36	30
CH157	5785 MHz	3.06	3.42	6.25	30
CH165	5825 MHz	3.78	3.33	6.57	30
802.11n(20) Mode(AV)					
CH149	5745 MHz	3.34	3.32	6.34	30
CH157	5785 MHz	3.19	3.21	6.21	30
CH165	5825 MHz	3.40	3.22	6.32	30
802.11n(40) Mode(AV)					
CH151	5755 MHz	3.69	3.45	6.58	30
CH159	5795 MHz	3.79	3.52	6.67	30

7. ANTENNA REQUIREMENT

7.1 STANDARD REQUIREMENT

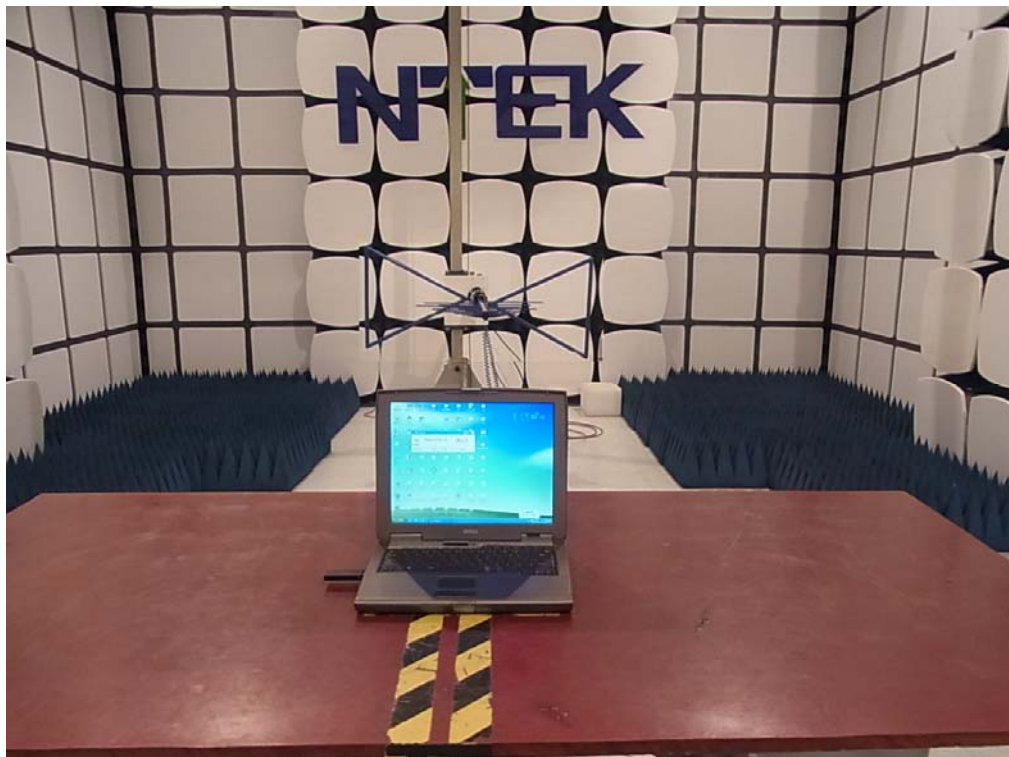
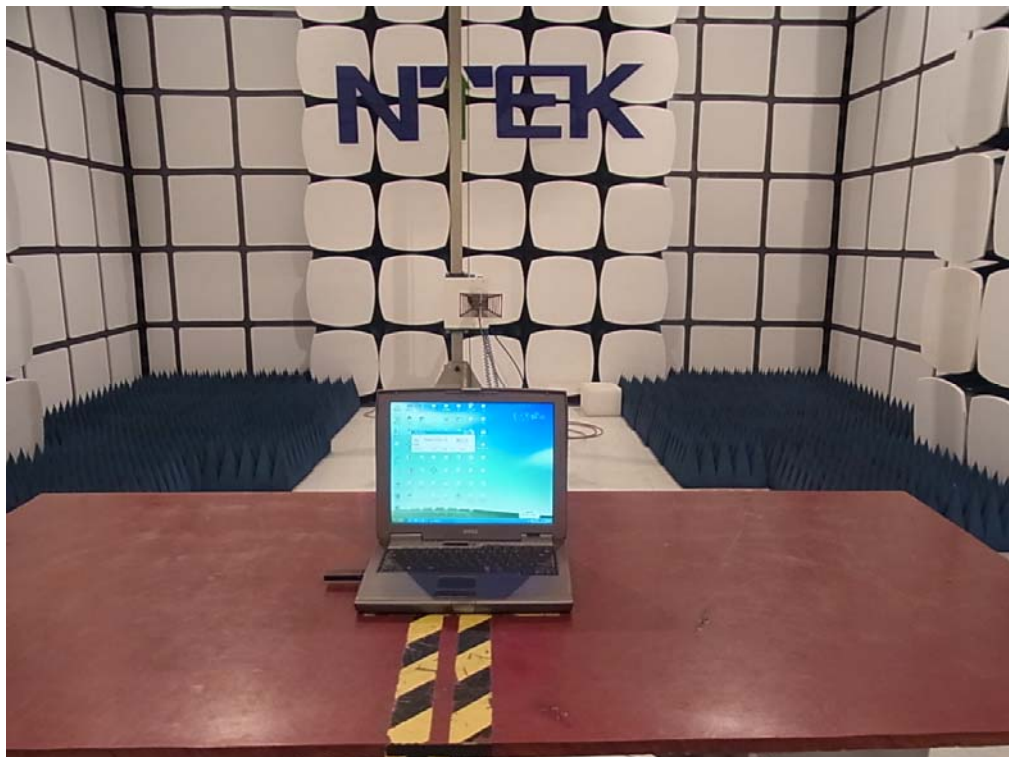
15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

7.2 EUT ANTENNA

The EUT antenna is Integrated(PCB) antenna. It comply with the standard requirement.

8. EUT TEST PHOTO

Radiated Measurement Photos



Conducted Measurement Photos

