



FCC RADIO TEST REPORT

FCC ID: NPFPCPWL6210V3-IP

Product : WLAN 11n Dual Band module

Trade Name : N/A

Model Name : WL-6210-V3

Serial Model : N/A

Report No. : MTE/DAL/T13020154F1

Prepared for

PC Partner limited

19/F, Shatin Galleria, 18-24 Shan Mei Street, Fo Tan, Shatin,
N.T., Hong Kong

Prepared by

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TEST RESULT CERTIFICATION

Applicant's name : PC Partner limited
Address : 19/F, Shatin Galleria, 18-24 Shan Mei Street, Fo Tan, Shatin,
N.T., Hong Kong
Manufacture's Name : PC Partner limited
Address : 19/F, Shatin Galleria, 18-24 Shan Mei Street, Fo Tan, Shatin,
N.T., Hong Kong

Product description

Product name : WLAN 11n Dual Band module
Model and/or type reference : WL-6210-V3
Serial Model : N/A

Standards : FCC Part15.247

Test procedure ANSI C63.4-2003

This device described above has been tested by MOST, 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 : 10 Feb. 2013 ~28 Feb. 2012

Date of Issue : 28 Feb. 2012

Test Result : **Pass**

Testing Engineer : Apple Huang
(Apple Huang)

Technical Manager : Tom Zhang
(Tom Zhang)

Authorized Signatory : Bovey Yang
(Bovey Yang)

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1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 (15.247) , Subpart C			
Standard Section	Test Item	Judgment	Remark
15.207	Conducted Emission	PASS	
15.247 (a)(2)	6dB Bandwidth	PASS	
15.247 (b)	Peak Output Power	PASS	
15.247 (c)	Radiated Spurious Emission	PASS	
15.247 (d)	Power Spectral Density	PASS	
15.205	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

Most Technology Service Co., Ltd.

Add.: No.5, Langshan 2nd Rd., North Hi-Tech Industrial park, Nanshan, Shenzhen, Guangdong, China

FCC Registration No.: 490827 CNAS Registration No.:L3573

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	WLAN 11n Dual Band module	
Trade Name	N/A	
Model Name	WL-6210-V3	
Serial Model	N/A	
Model Difference	N/A	
Product Description	The EUT is a WLAN 11n Dual Band module	
	Operation Frequency:	2400MHz~2483.5MHz 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):	17.78 dBm
	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 Host	
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	A20	FPCB Antenna	N/A	2.4G:7.60 5G:4.46	N/A
B	N/A	A21	FPCB Antenna	N/A	2.4G:6.21 5G:5.24	N/A

The Control software(tool_WIFI.exe) can control antenna A and antenna B, For 802.11a/b/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 20/40MHz 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

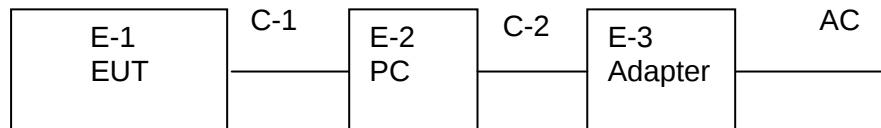
For Radiated Emission	
Final Test Mode	Description
Mode 1	802.11b
Mode 2	802.11g
Mode 3	802.11n(20)
Mode 4	802.11n(40)
Mode 5	802.11a

Note:

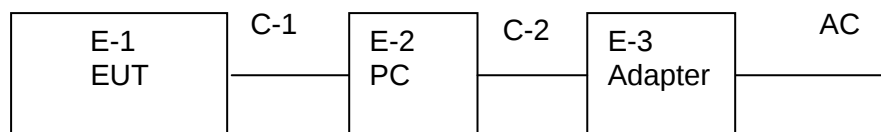
- (1) The measurements are performed at the highest, middle, lowest available channels.
- (2) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported

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	WLAN 11n Dual Band module	N/A	WL-6210-V3	N/A	EUT
E-2	PC	N/A	S327	N/A	
E-3	Adapter	N/A	N/A	N/A	

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	0.6M	
C-2	No	No	1.2M	

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

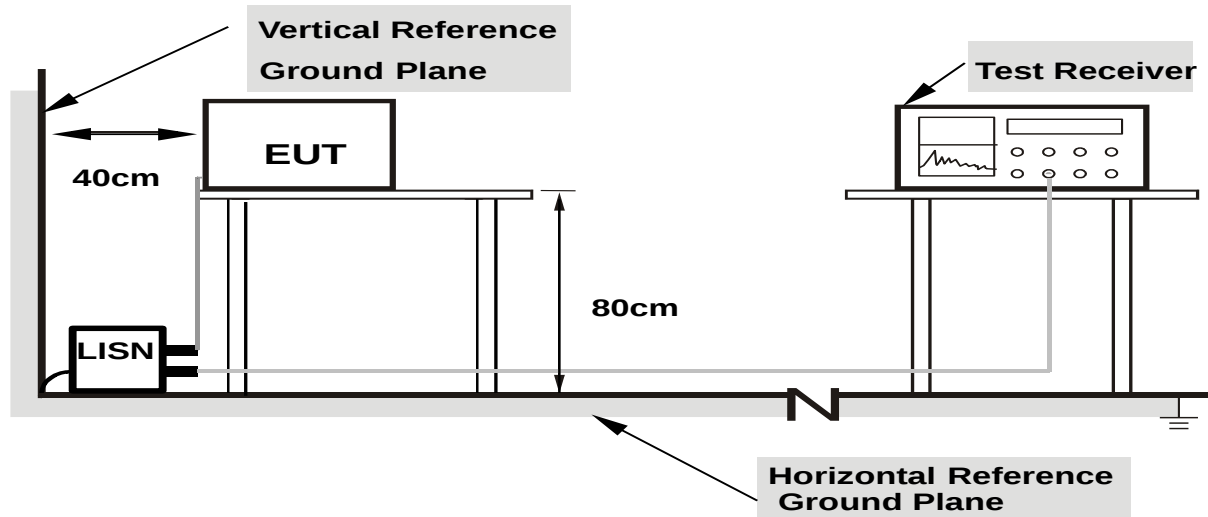
3.1.2 TEST PROCEDURE

- 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

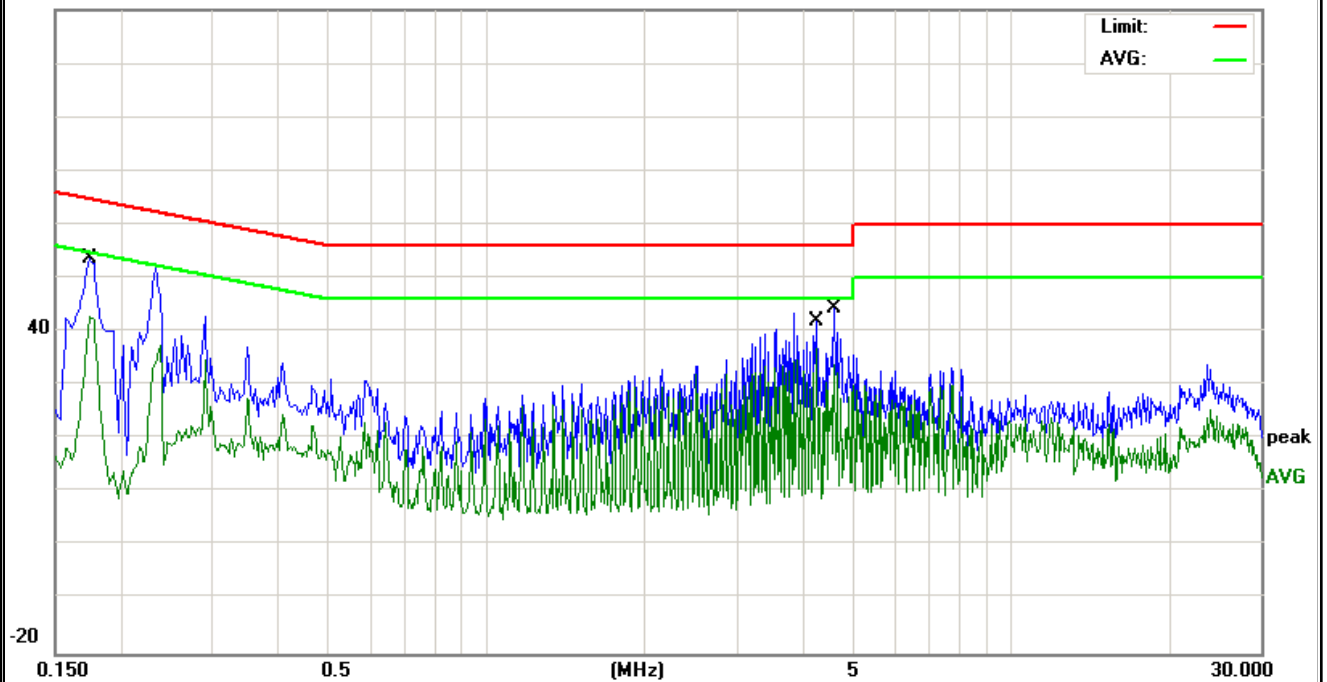
EUT :	WLAN 11n Dual Band module	Model Name. :	WL-6210-V3
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Phase :	L
Test Voltage :	DC 5V From PC AC120V/60Hz	Test Mode :	Mode 6

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.174	43.82	9.8	53.62	64.76	-11.14	QP
0.174	32.96	9.8	42.76	54.76	-12	AVG
4.2619	26.39	10.35	36.74	46	-9.26	AVG
4.6139	34.03	10.37	44.4	56	-11.6	QP

Remark:

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

100.0 dBμV

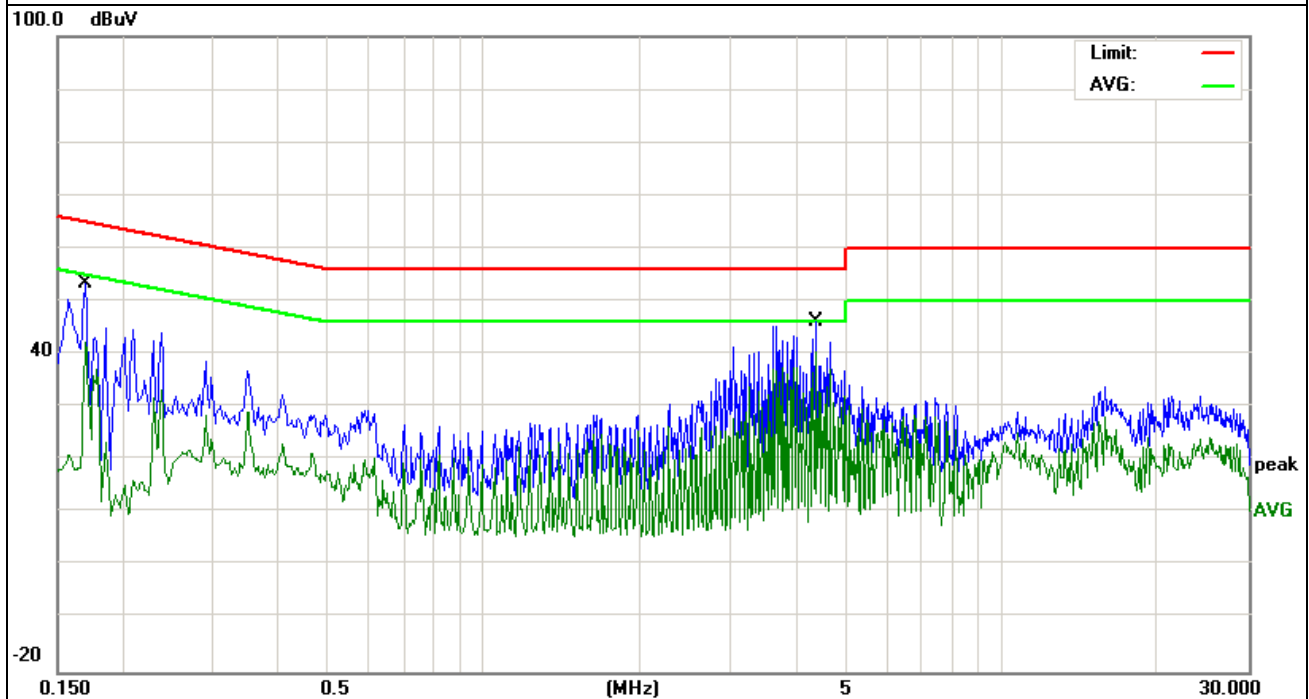


EUT :	WLAN 11n Dual Band module	Model Name. :	WL-6210-V3
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Phase :	N
Test Voltage :	DC 5V From PC AC120V/60Hz	Test Mode :	Mode 6

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.17	43.54	9.8	53.34	64.96	-11.62	QP
0.17	32.46	9.8	42.26	54.96	-12.7	AVG
4.3778	35.77	10.36	46.13	56	-9.87	QP
4.3778	30.02	10.36	40.38	46	-5.62	AVG

Remark:

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



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:

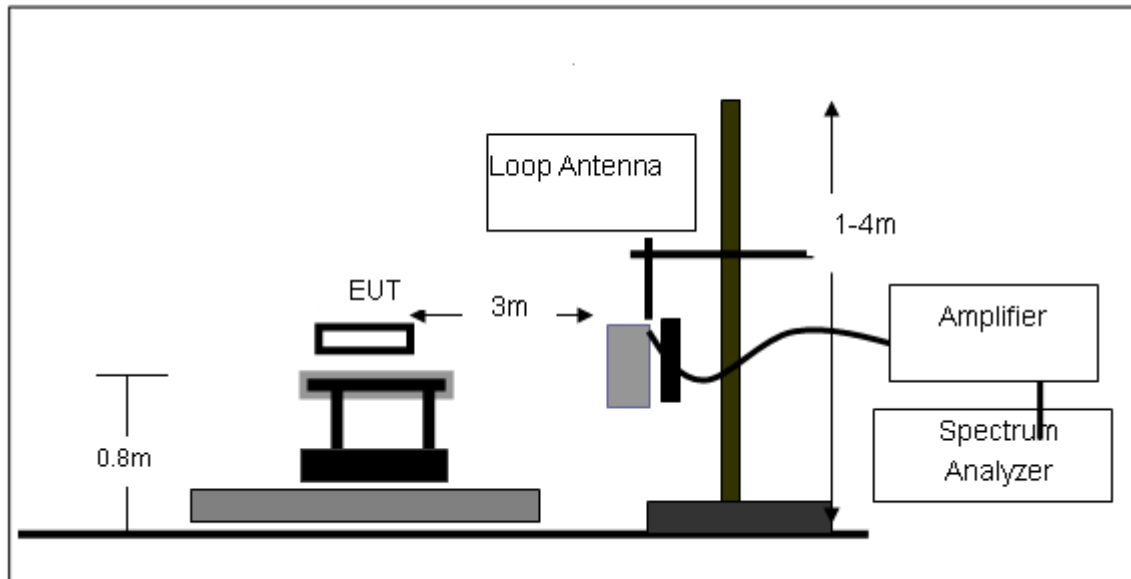
Both horizontal and vertical antenna polarities were tested
and performed pretest to three orthogonal axis. The worst case emissions were reported

3.2.3 DEVIATION FROM TEST STANDARD

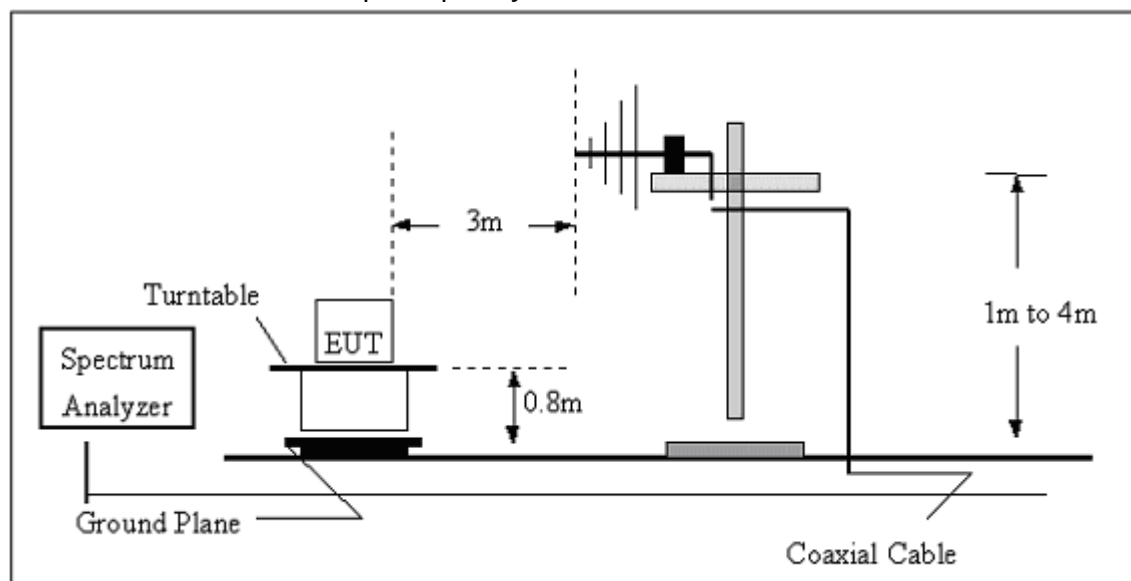
No deviation

3.2.4 TEST SETUP

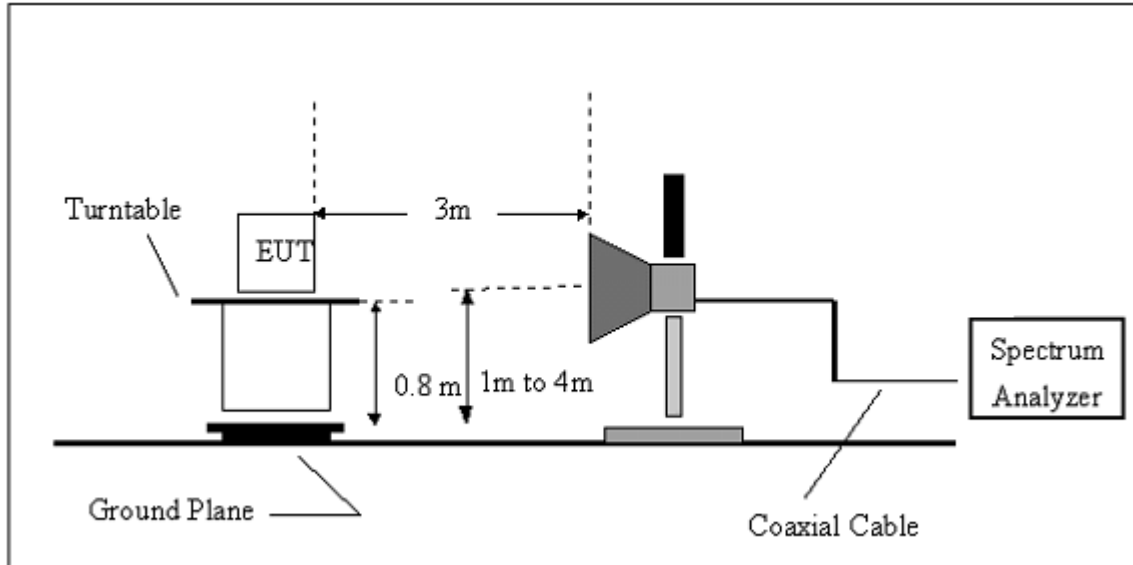
(A) Radiated Emission Test-Up Frequency Below 30MHz



(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:	WLAN 11n Dual Band module	Model Name. :	WL-6210-V3
Temperature:	20 °C	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 5V
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 = $40 \log (\text{specific distance/test distance})$ (dB);

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

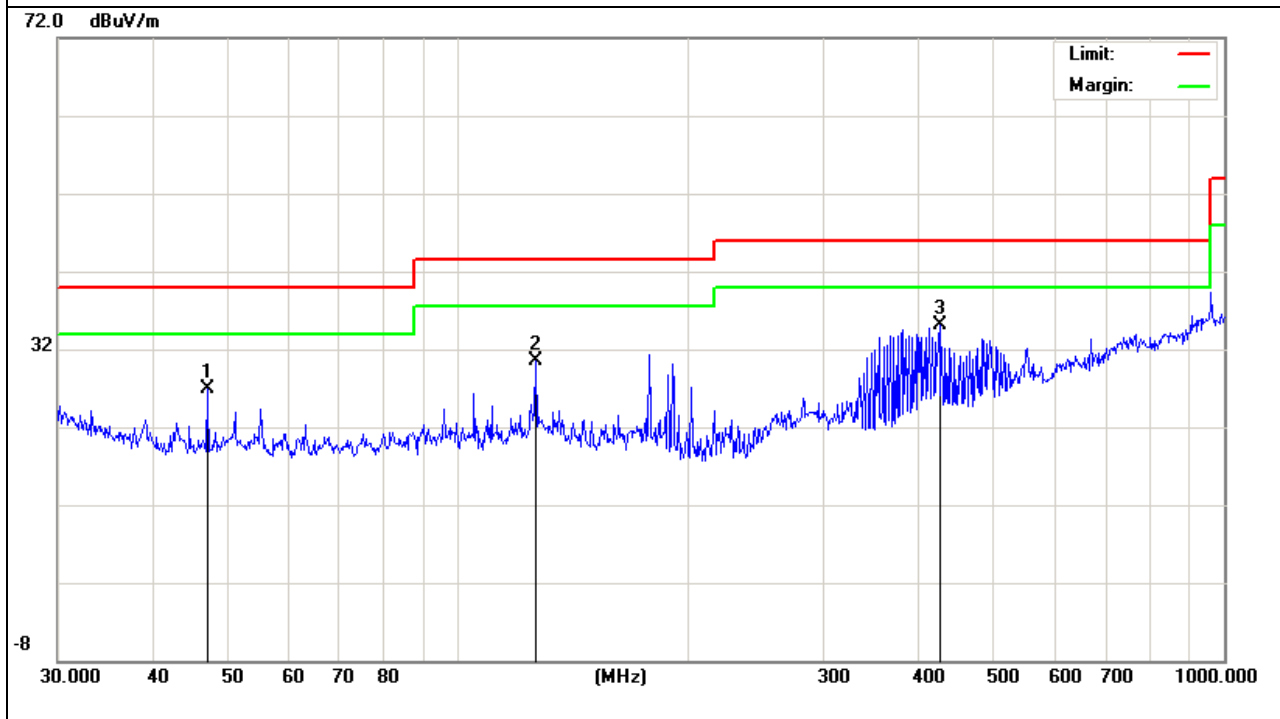
3.2.7 TEST RESULTS (BETWEEN 30MHZ – 1GHZ)

EUT :	WLAN 11n Dual Band module	Model Name :	WL-6210-V3
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V
Test Mode :	Mode 6	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
46.9947	17.31	9.62	26.93	40	-13.07	QP
126.3285	18.31	12.21	30.52	43.5	-12.98	QP
425.028	16.12	18.91	35.03	46	-10.97	QP

Remark:

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

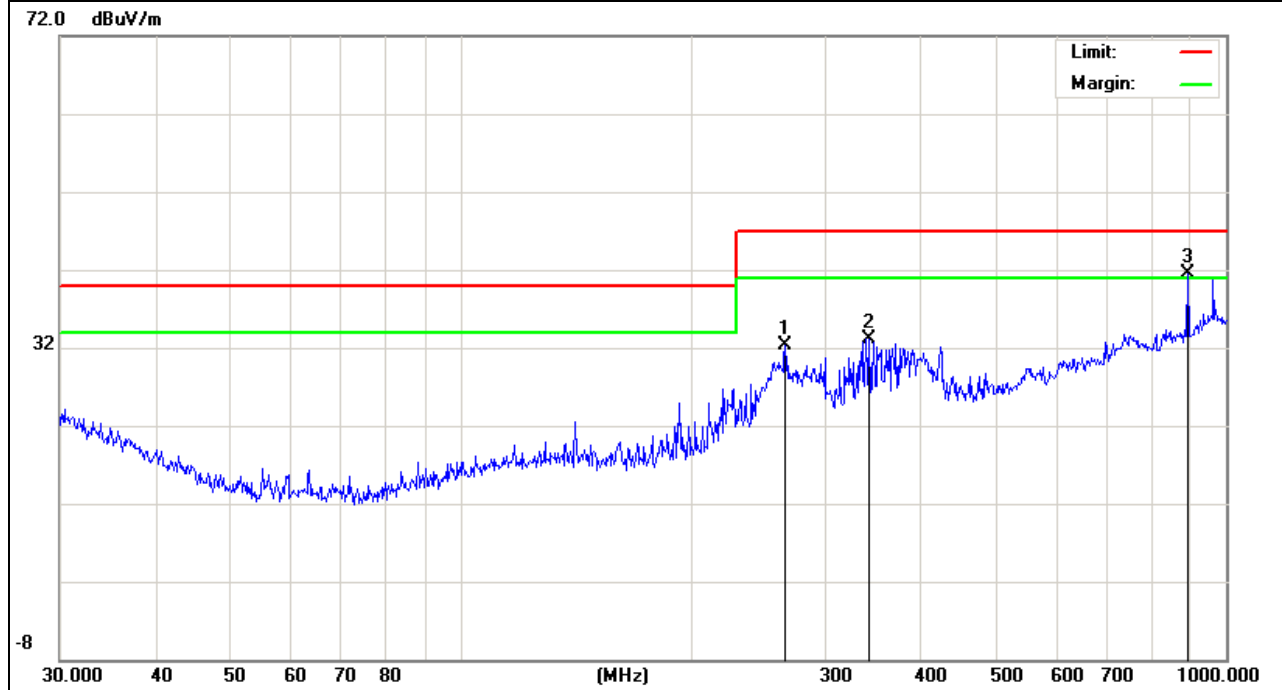


EUT :	WLAN 11n Dual Band module	Model Name :	WL-6210-V3
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V
Test Mode :	Mode 6	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
265.6757	17.9	14.46	32.36	47	-14.64	QP
341.9786	16.91	16.19	33.1	47	-13.9	QP
890.7278	13.97	27.46	41.43	47	-5.57	QP

Remark:

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



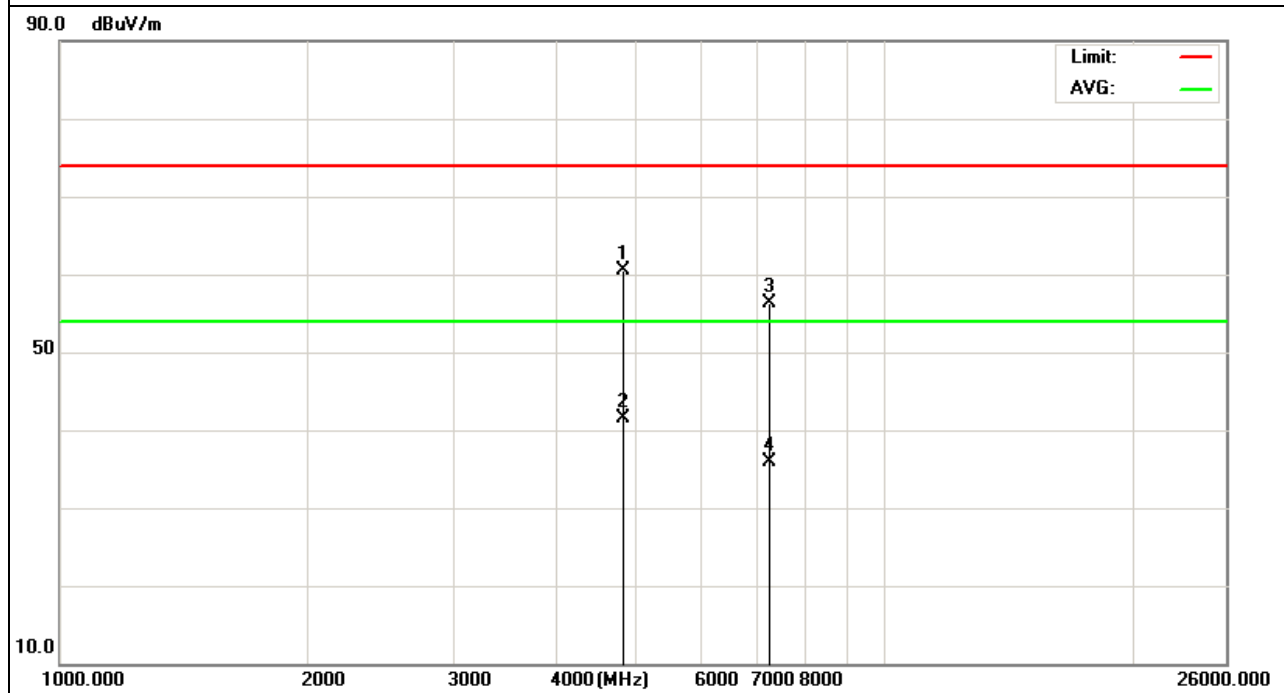
3.2.8 TEST RESULTS (ABOVE 1000 MHZ)

EUT :	WLAN 11n Dual Band module	Model Name :	WL-6210-V3
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V
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	57.89	2.6	60.49	74	-13.51	peak
4824	38.87	2.6	41.47	54	-12.53	AVG
7236	51.69	4.59	56.28	74	-17.72	peak
7236	31.24	4.59	35.83	54	-18.17	AVG

Remark:

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

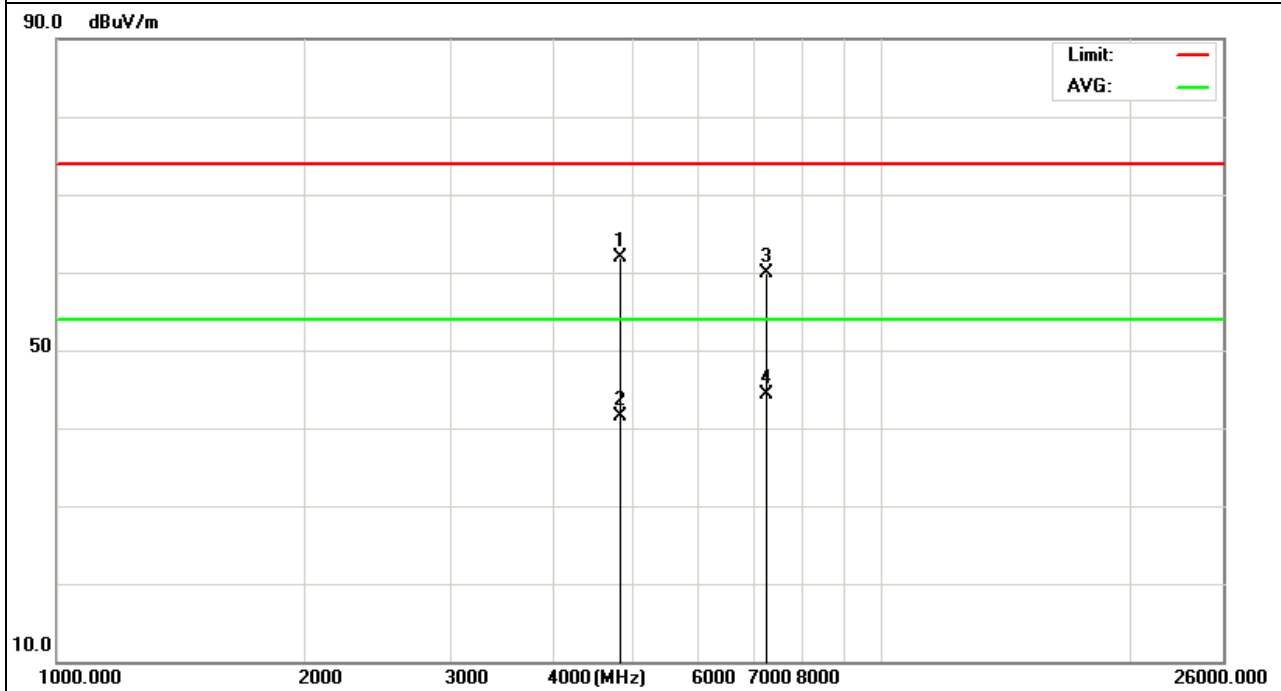


EUT :	WLAN 11n Dual Band module	Model Name :	WL-6210-V3
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V
Test Mode :	CH1 (802.11b Mode)/2412	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4824	59.33	2.6	61.93	74	-12.07	peak
4824	38.88	2.6	41.48	54	-12.52	AVG
7236	55.26	4.59	59.85	74	-14.15	peak
7236	39.67	4.59	44.26	54	-9.74	AVG

Remark:

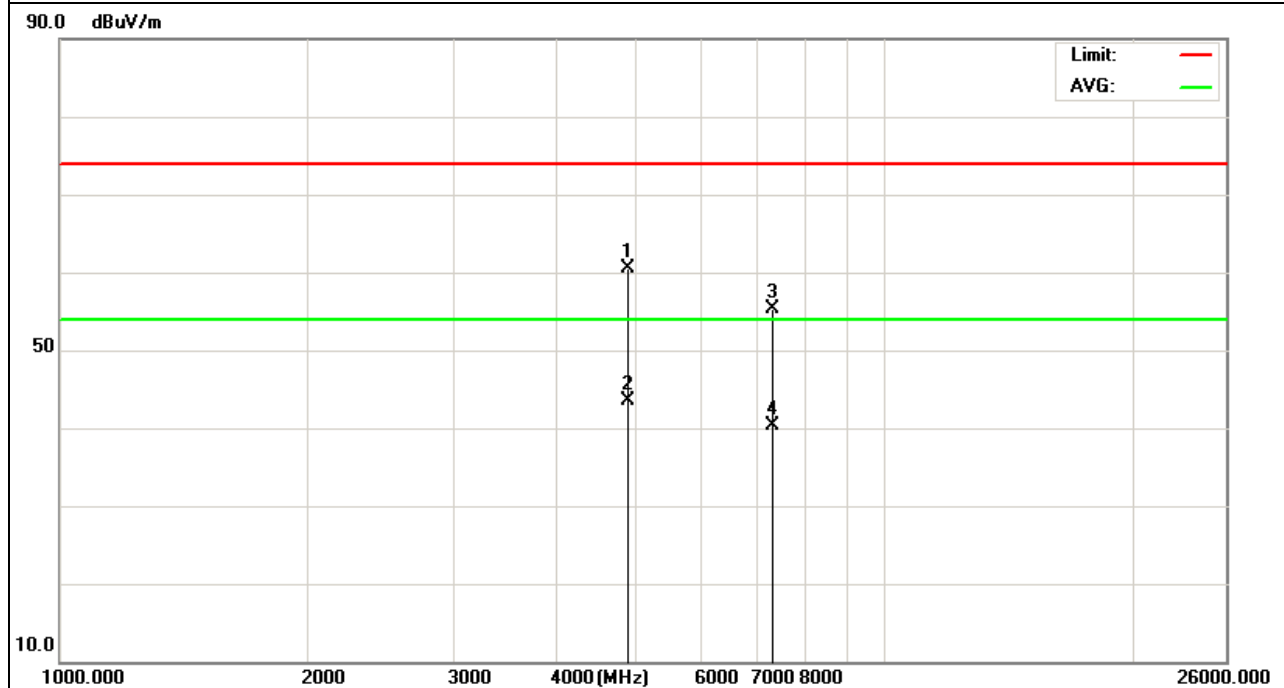
Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT :	WLAN 11n Dual Band module	Model Name :	WL-6210-V3
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V
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
4874.147	50.15	10.4	60.55	74	-13.45	peak
4874.147	33.09	10.4	43.49	54	-10.51	AVG
7311.132	42.46	12.75	55.21	74	-18.79	peak
7311.132	27.57	12.75	40.32	54	-13.68	AVG

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

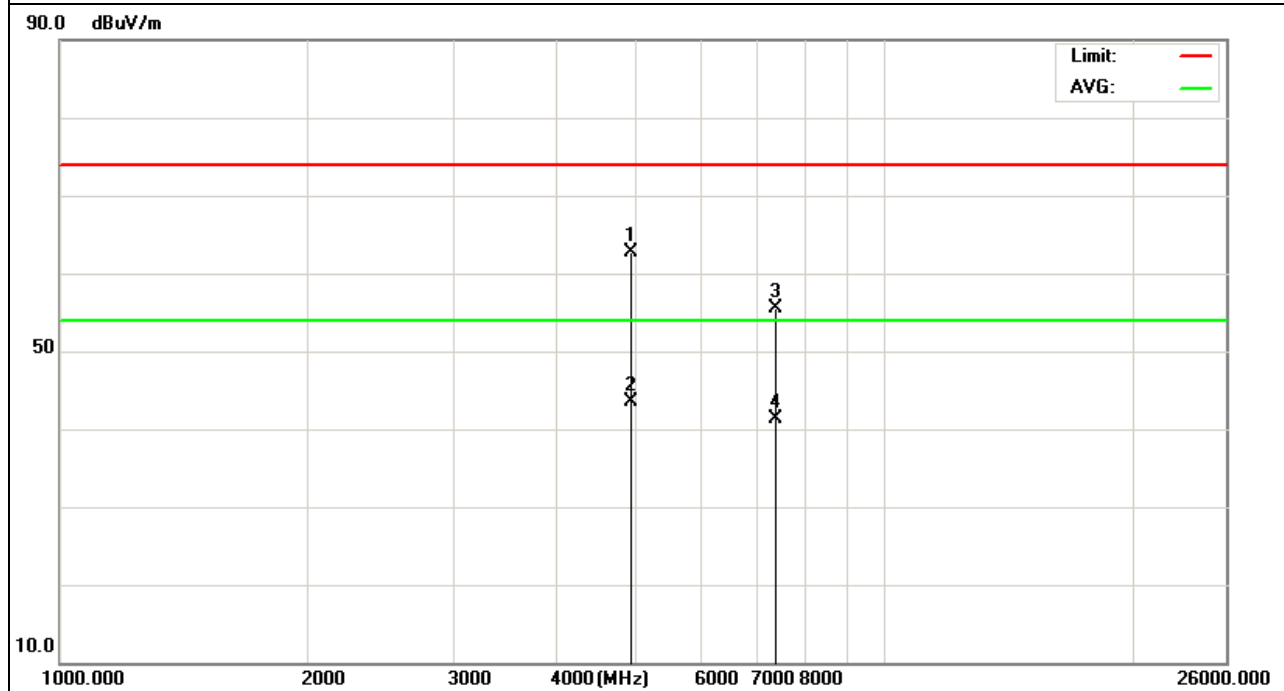


EUT :	WLAN 11n Dual Band module	Model Name :	WL-6210-V3
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V
Test Mode :	CH6 (802.11b Mode)/2437	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4924.148	52.25	10.39	62.64	74	-11.36	peak
4934.148	33.15	10.44	43.59	54	-10.41	AVG
7386.128	42.82	12.68	55.5	74	-18.5	peak
7386.128	28.69	12.68	41.37	54	-12.63	AVG

Remark:

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

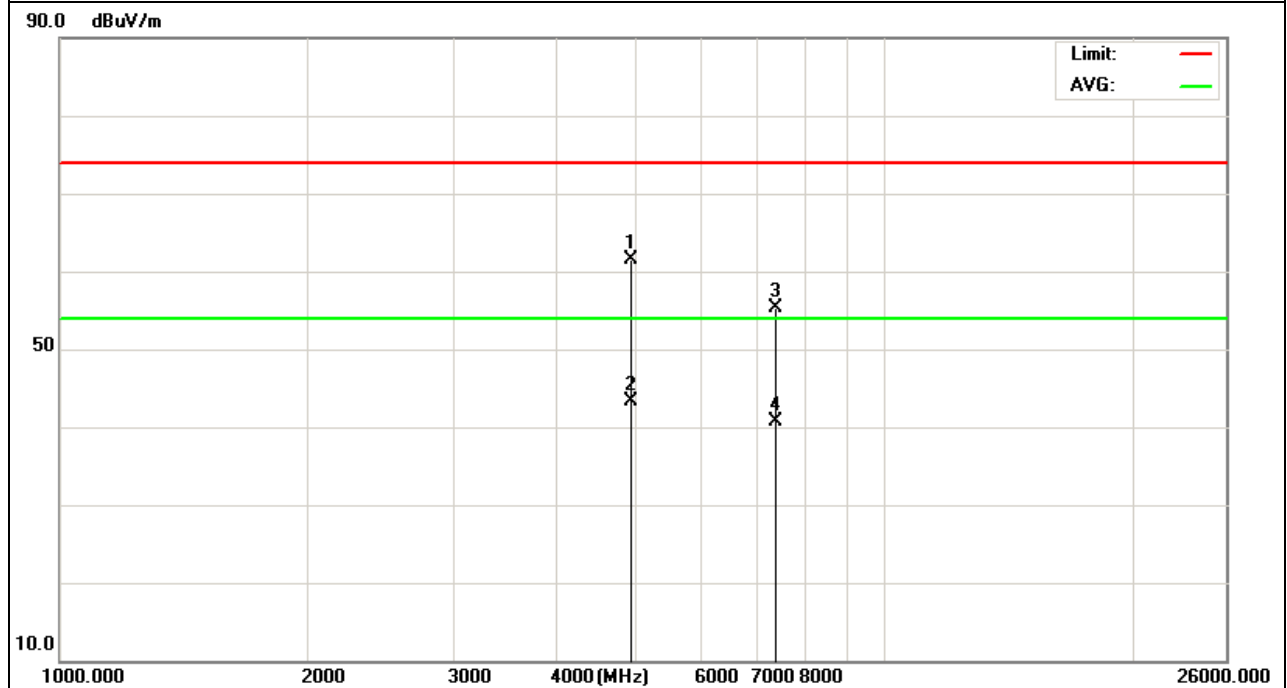


EUT :	WLAN 11n Dual Band module	Model Name :	WL-6210-V3
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V
Test Mode :	CH11 (802.11b Mode)/2462	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4924.14	51.17	10.39	61.56	74	-12.44	peak
4924.14	33	10.39	43.39	54	-10.61	AVG
7386.136	42.56	12.68	55.24	74	-18.76	peak
7386.136	27.99	12.68	40.67	54	-13.33	AVG

Remark:

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

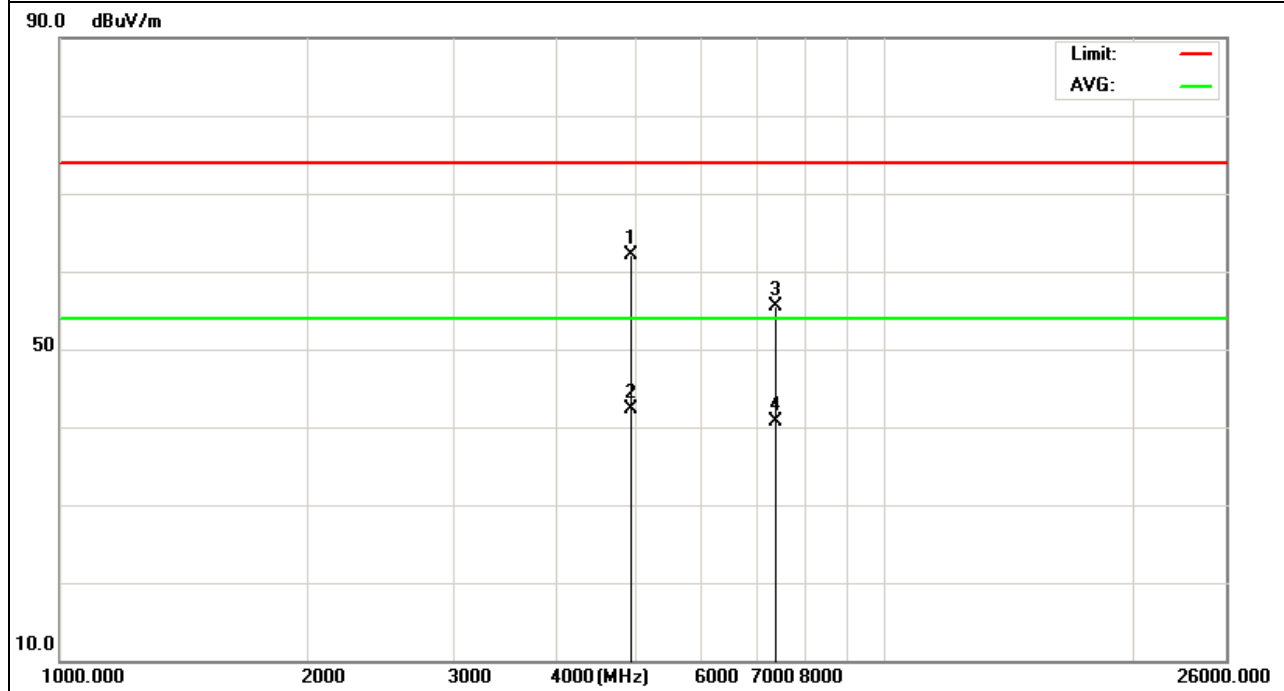


EUT :	WLAN 11n Dual Band module	Model Name :	WL-6210-V3
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V
Test Mode :	CH11 (802.11b Mode)/2462	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4924.116	51.79	10.39	62.18	74	-11.82	peak
4924.116	31.98	10.39	42.37	54	-11.63	AVG
7386.138	42.78	12.68	55.46	74	-18.54	peak
7386.138	28.06	12.68	40.74	54	-13.26	AVG

Remark:

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

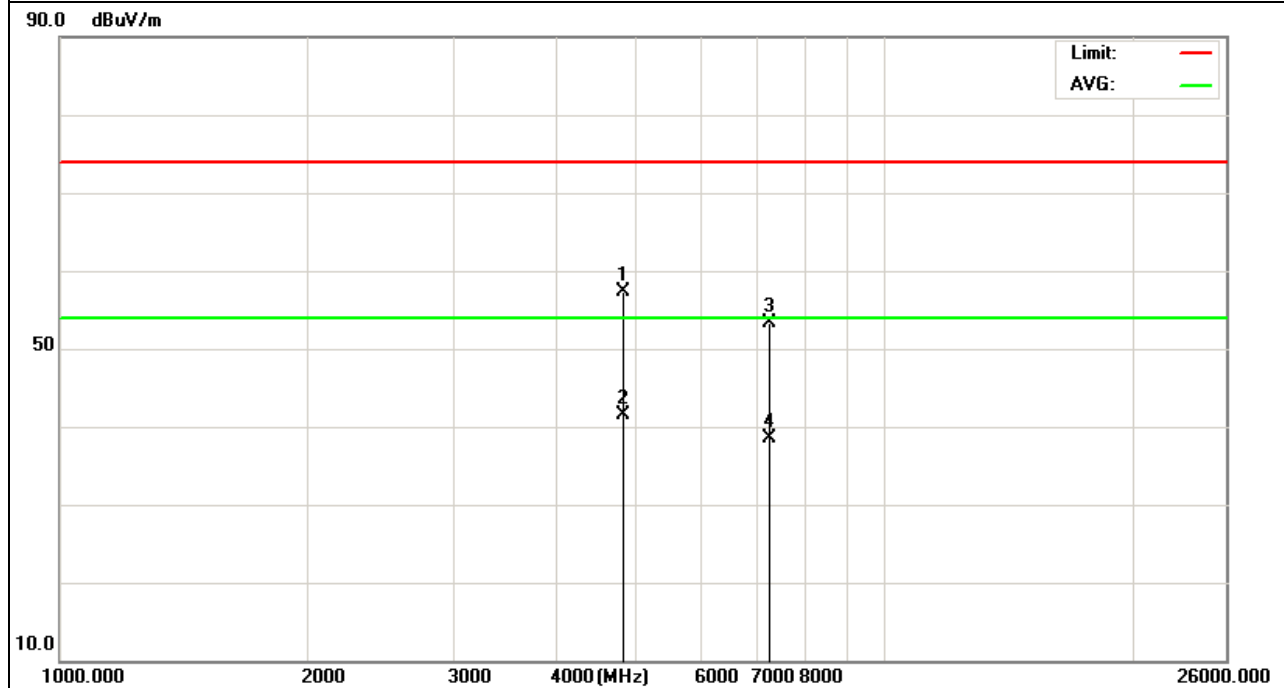


EUT :	WLAN 11n Dual Band module	Model Name :	WL-6210-V3
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V
Test Mode :	CH1 (802.11g Mode)/2412	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4824.163	46.94	10.44	57.38	74	-16.62	peak
4824.163	31.12	10.44	41.56	54	-12.44	AVG
7236.119	40.86	12.39	53.25	74	-20.75	peak
7236.119	26.08	12.39	38.47	54	-15.53	AVG

Remark:

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

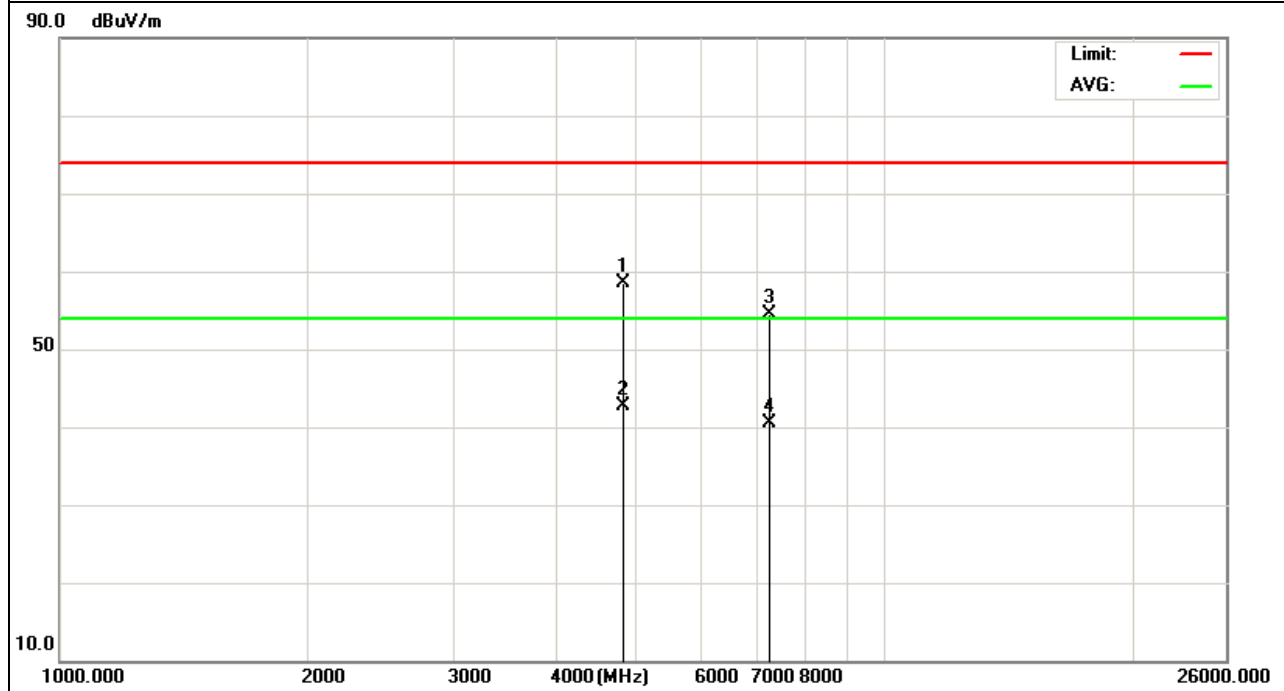


EUT :	WLAN 11n Dual Band module	Model Name :	WL-6210-V3
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V
Test Mode :	CH1 (802.11g Mode)/2412	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4824.152	48.15	10.44	58.59	74	-15.41	peak
4824.152	32.22	10.44	42.66	54	-11.34	AVG
7236.136	42.07	12.39	54.46	74	-19.54	peak
7236.136	28.09	12.39	40.48	54	-13.52	AVG

Remark:

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

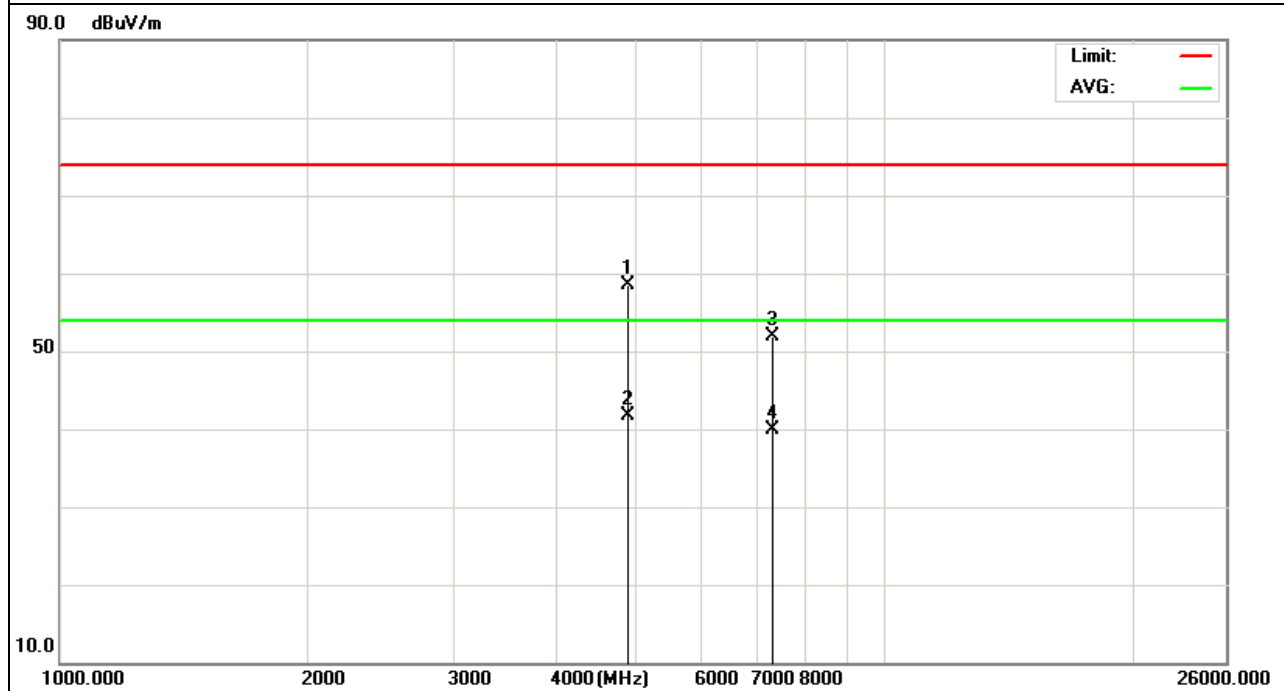


EUT :	WLAN 11n Dual Band module	Model Name :	WL-6210-V3
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V
Test Mode :	CH6 (802.11g Mode)/2437	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4874.128	48.17	10.4	58.57	74	-15.43	peak
4874.128	31.38	10.4	41.78	54	-12.22	AVG
7311.166	39.1	12.75	51.85	74	-22.15	peak
7311.166	27.12	12.75	39.87	54	-14.13	AVG

Remark:

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

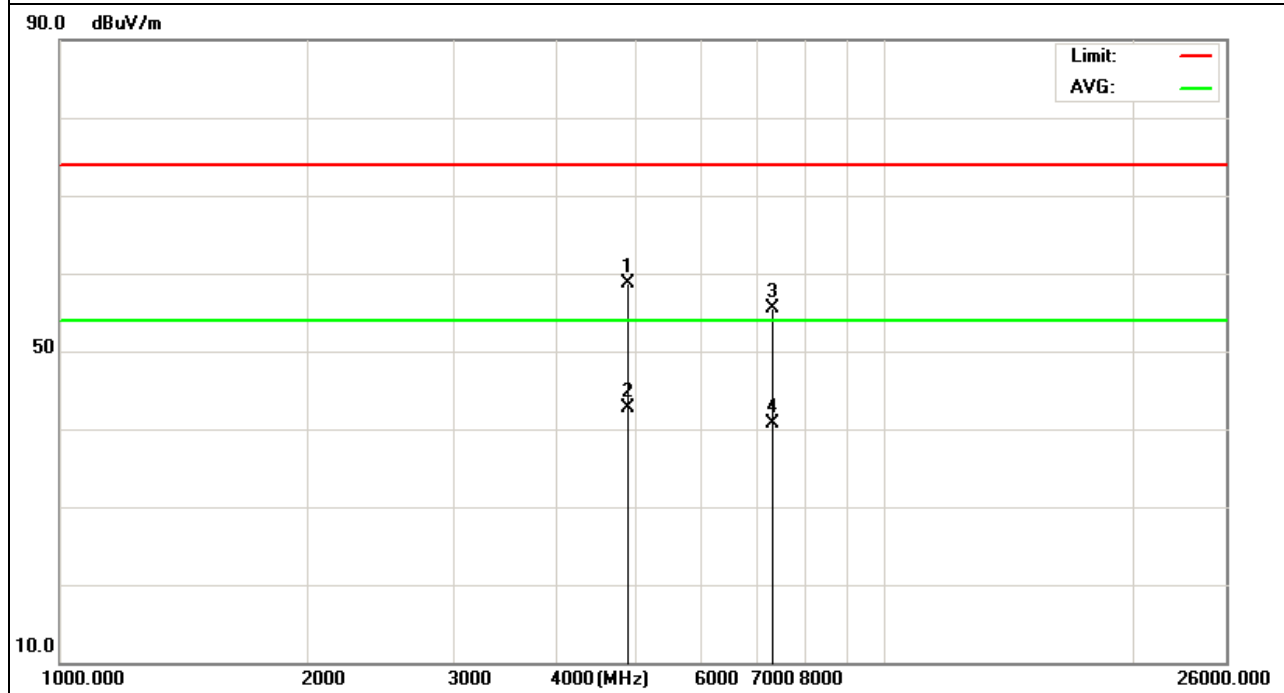


EUT :	WLAN 11n Dual Band module	Model Name :	WL-6210-V3
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V
Test Mode :	CH6 (802.11g Mode)/2437	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4874.162	48.33	10.4	58.73	74	-15.27	peak
4874.162	32.21	10.4	42.61	54	-11.39	AVG
7311.123	42.82	12.75	55.57	74	-18.43	peak
7311.128	27.88	12.75	40.63	54	-13.37	AVG

Remark:

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

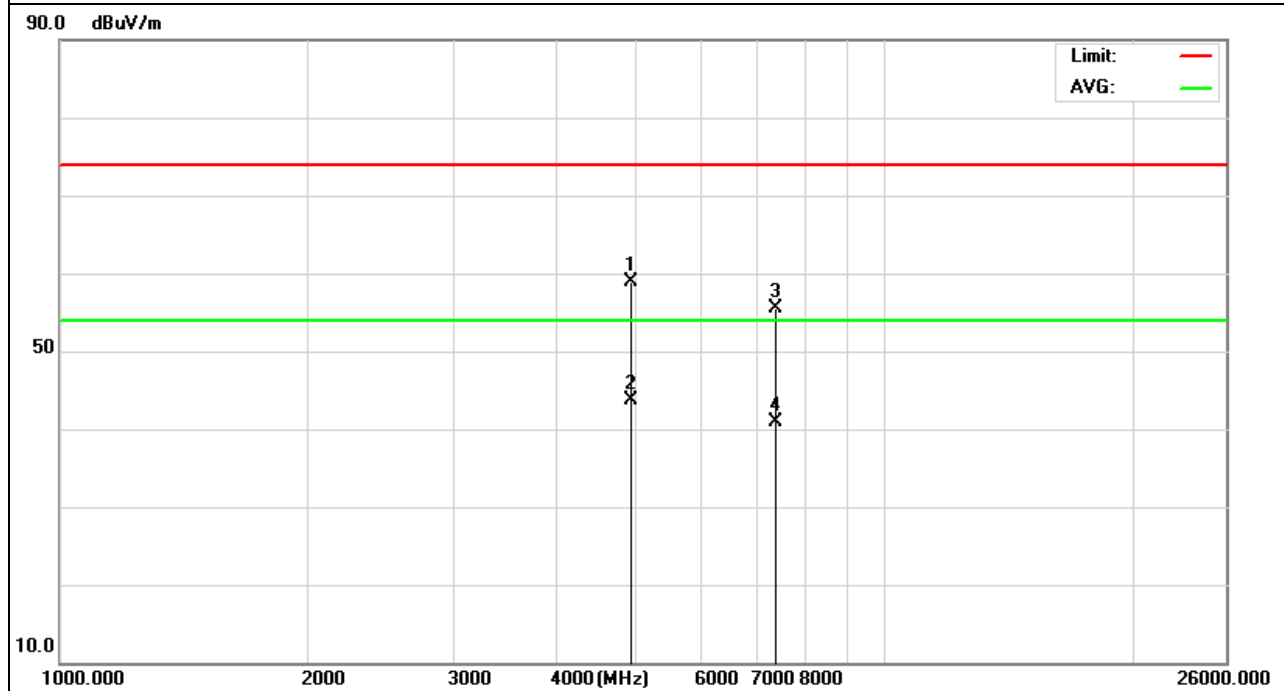


EUT :	WLAN 11n Dual Band module	Model Name :	WL-6210-V3
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V
Test Mode :	CH11 (802.11g Mode)/2462	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4924.132	48.42	10.39	58.81	74	-15.19	peak
4924.132	33.27	10.39	43.66	54	-10.34	AVG
7386.14	42.8	12.68	55.48	74	-18.52	peak
7386.14	28.17	12.68	40.85	54	-13.15	AVG

Remark:

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

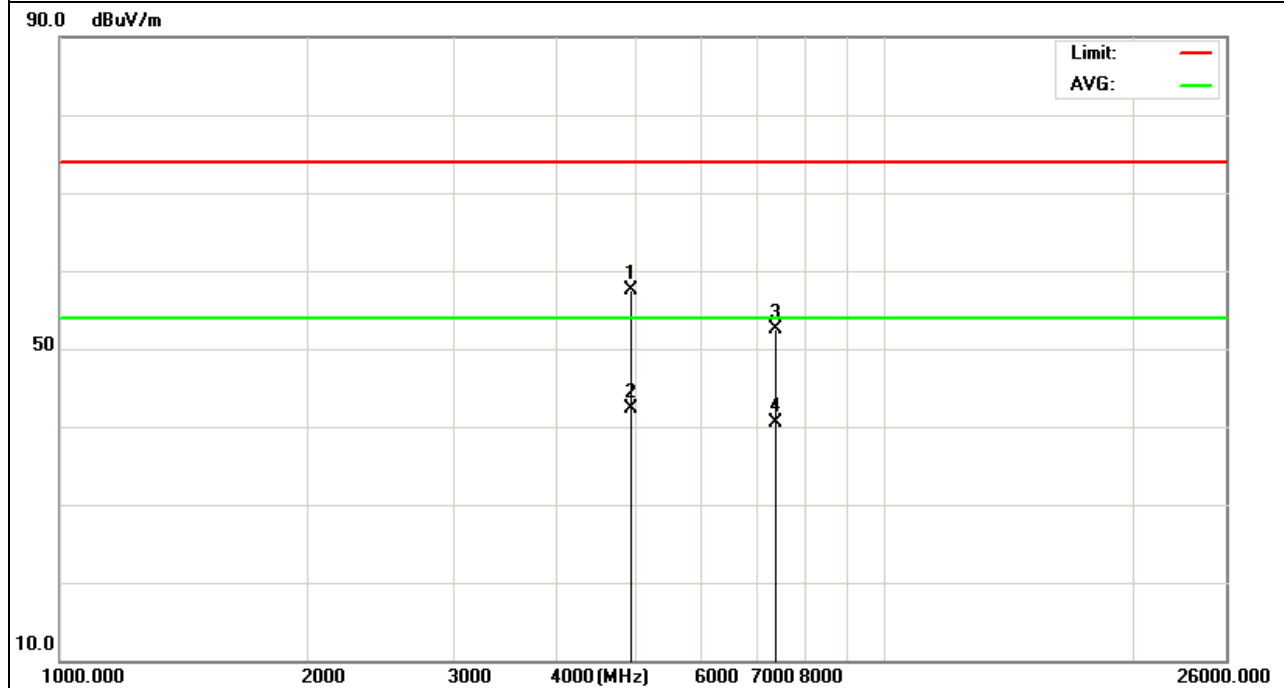


EUT :	WLAN 11n Dual Band module	Model Name :	WL-6210-V3
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V
Test Mode :	CH11(802.11g Mode)/2462	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4924.144	47.12	10.39	57.51	74	-16.49	peak
4924.144	31.98	10.39	42.37	54	-11.63	AVG
7386.123	39.84	12.68	52.52	74	-21.48	peak
7386.123	27.87	12.68	40.55	54	-13.45	AVG

Remark:

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

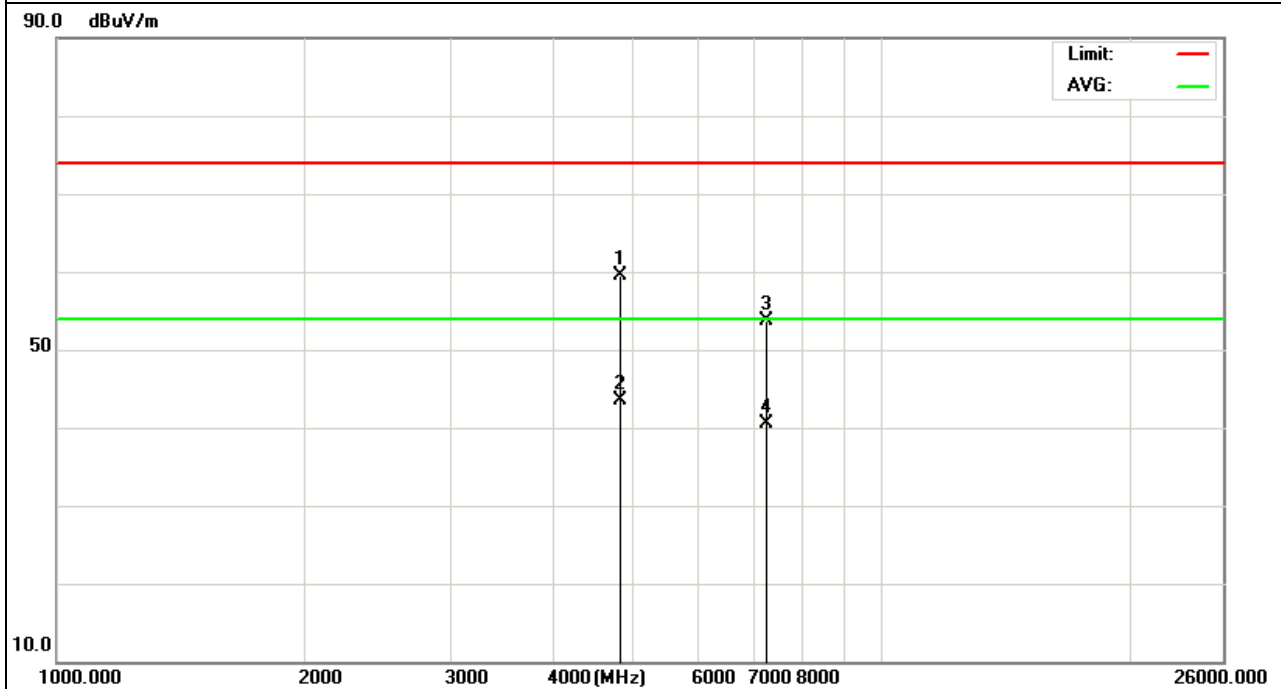


EUT :	WLAN 11n Dual Band module	Model Name :	WL-6210-V3
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V
Test Mode :	CH1(802.11n Mode)/20MHz	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4824.135	49.04	10.44	59.48	74	-14.52	peak
4824.135	33.12	10.44	43.56	54	-10.44	AVG
7236.123	41.32	12.39	53.71	74	-20.29	peak
7236.123	28.21	12.39	40.6	54	-13.4	AVG

Remark:

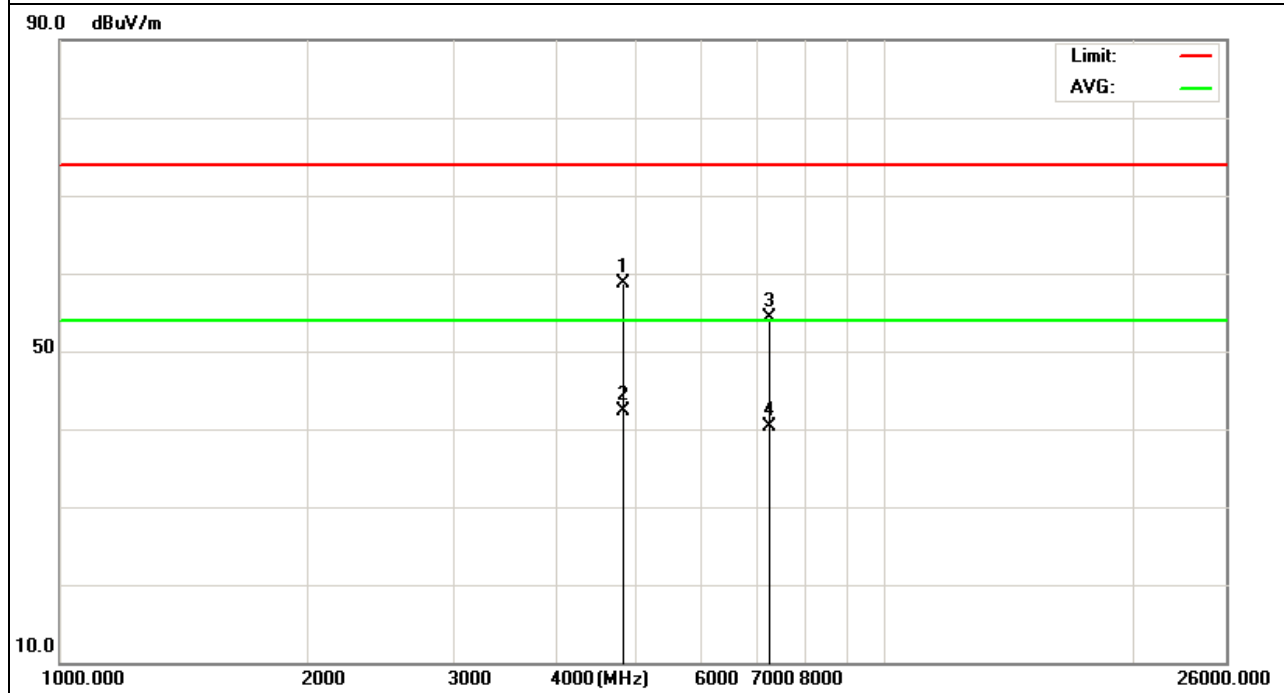
Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT :	WLAN 11n Dual Band module	Model Name :	WL-6210-V3
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V
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
4824.136	48.17	10.44	58.61	74	-15.39	peak
4824.136	31.91	10.44	42.35	54	-11.65	AVG
7236.142	42	12.39	54.39	74	-19.61	peak
7236.142	27.98	12.39	40.37	54	-13.63	AVG

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

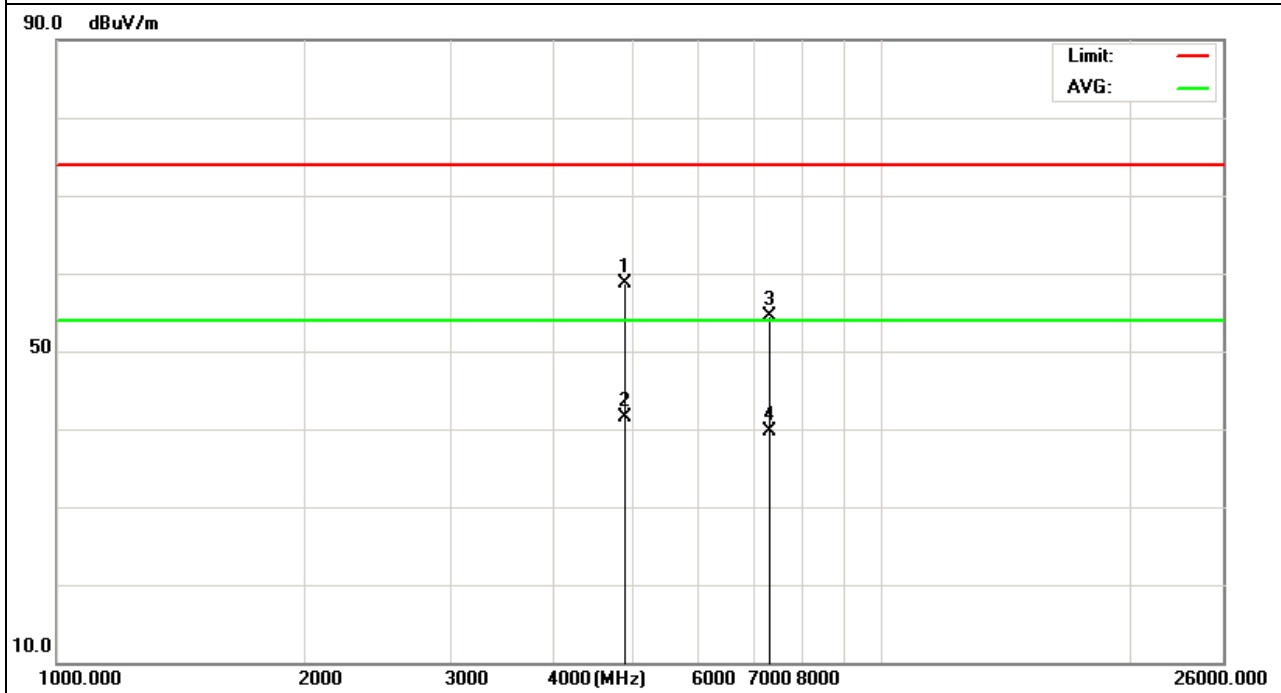


EUT :	WLAN 11n Dual Band module	Model Name :	WL-6210-V3
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V
Test Mode :	CH6(802.11n Mode)/20MHz	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4874.152	48.37	10.4	58.77	74	-15.23	peak
4874.152	31.18	10.4	41.58	54	-12.42	AVG
7311.177	41.73	12.75	54.48	74	-19.52	peak
7311.177	26.9	12.75	39.65	54	-14.35	AVG

Remark:

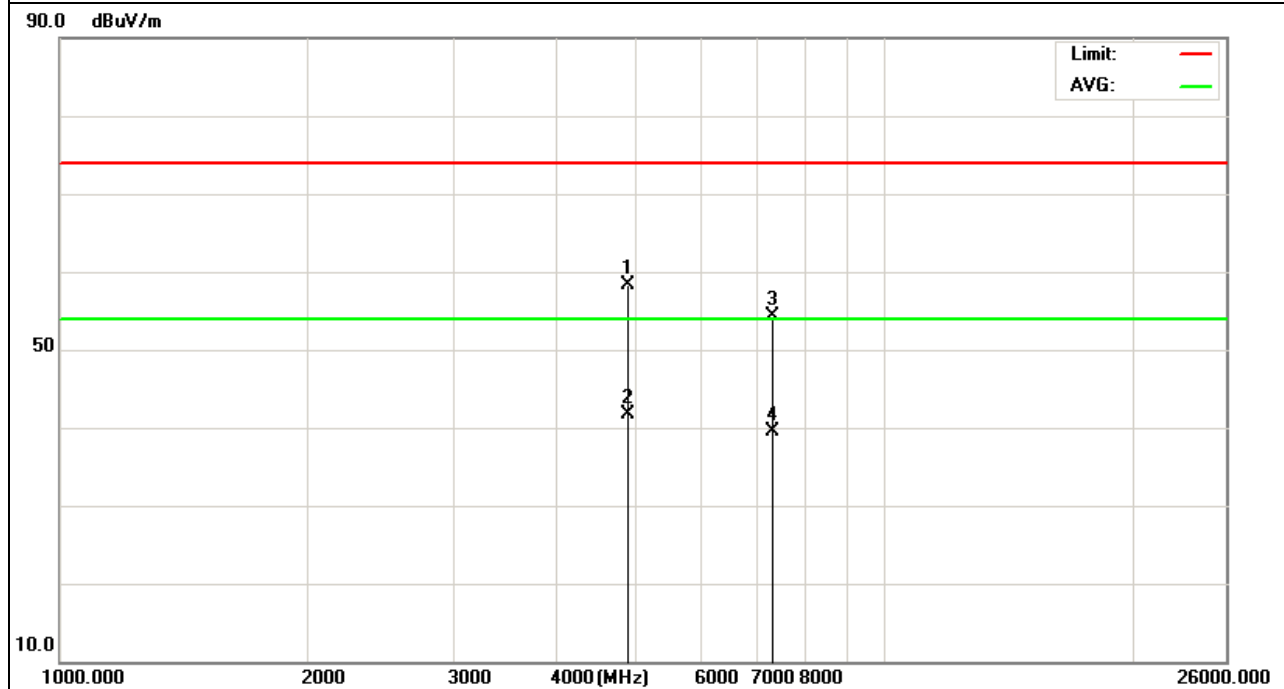
Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT :	WLAN 11n Dual Band module	Model Name :	WL-6210-V3
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V
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
4874.153	47.88	10.4	58.28	74	-15.72	peak
4874.153	31.31	10.4	41.71	54	-12.29	AVG
7311.165	41.53	12.75	54.28	74	-19.72	peak
7311.165	26.83	12.75	39.58	54	-14.42	AVG

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

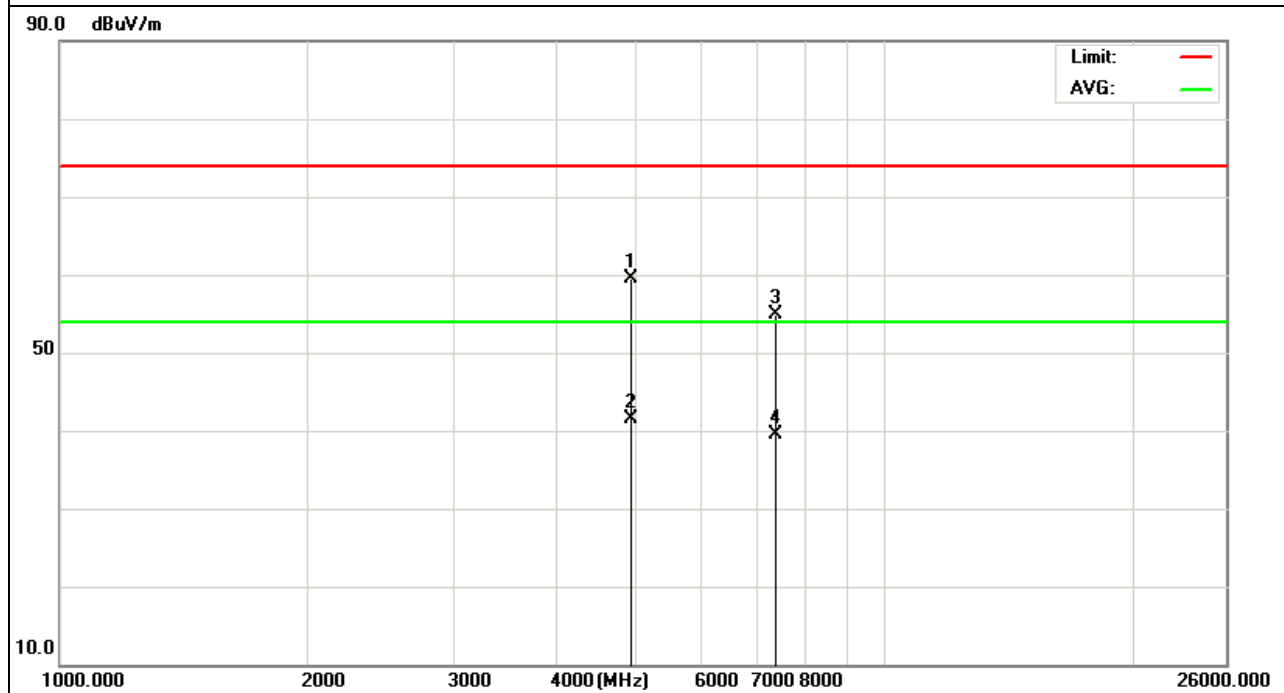


EUT :	WLAN 11n Dual Band module	Model Name :	WL-6210-V3
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V
Test Mode :	CH11(802.11n Mode)/20MHz	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4924.133	49.09	10.39	59.48	74	-14.52	peak
4924.133	31.2	10.39	41.59	54	-12.41	AVG
7386.172	42.14	12.68	54.82	74	-19.18	peak
7386.172	26.75	12.68	39.43	54	-14.57	AVG

Remark:

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

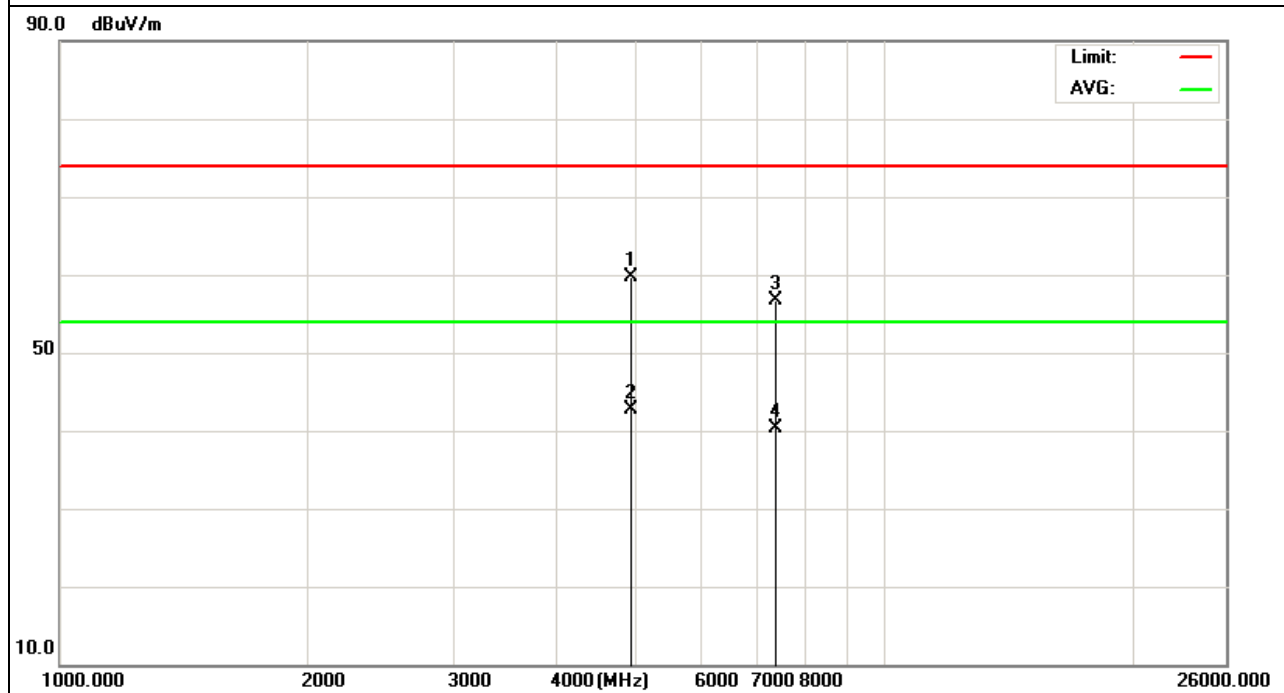


EUT :	WLAN 11n Dual Band module	Model Name :	WL-6210-V3
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V
Test Mode :	CH11(802.11n Mode)/20MHz	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4924.14	49.35	10.39	59.74	74	-14.26	peak
4924.14	32.29	10.39	42.68	54	-11.32	AVG
7386.165	43.95	12.68	56.63	74	-17.37	peak
7386.165	27.58	12.68	40.26	54	-13.74	AVG

Remark:

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

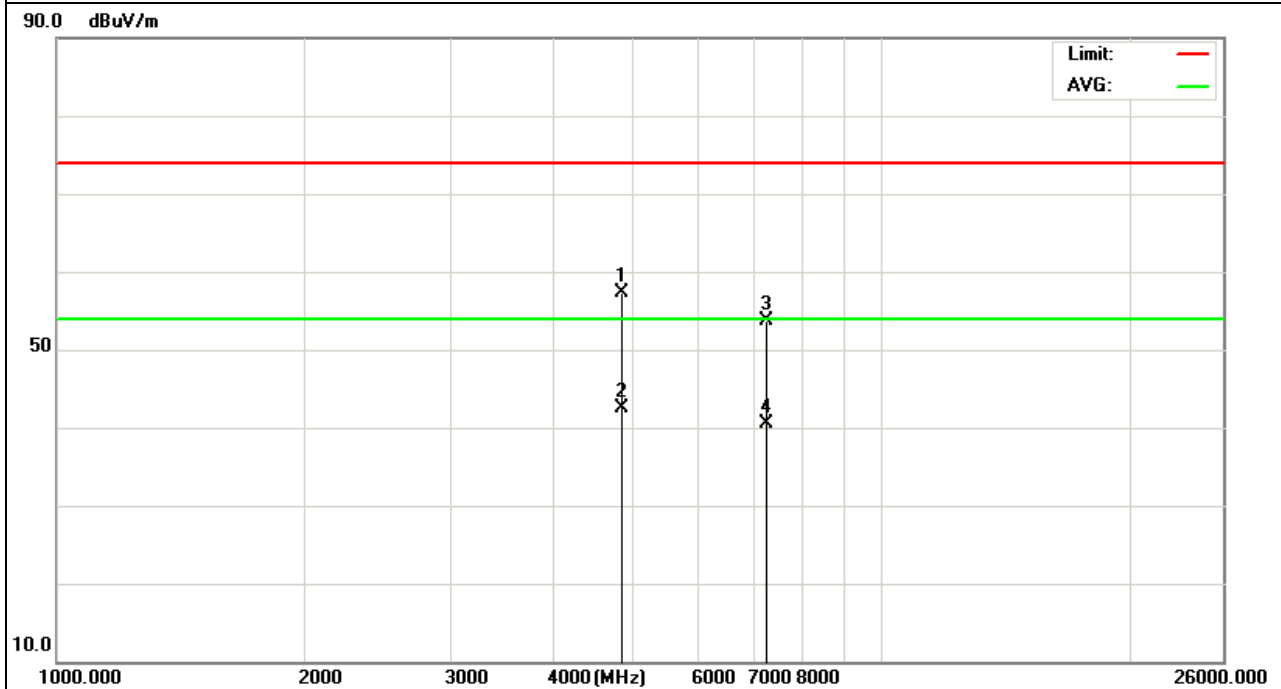


EUT :	WLAN 11n Dual Band module	Model Name :	WL-6210-V3
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V
Test Mode :	CH3(802.11n Mode)/40MHz	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4844.159	46.78	10.5	57.28	74	-16.72	peak
4844.159	31.96	10.5	42.46	54	-11.54	AVG
7266.337	41.29	12.5	53.79	74	-20.21	peak
7266.337	28.08	12.5	40.58	54	-13.42	AVG

Remark:

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

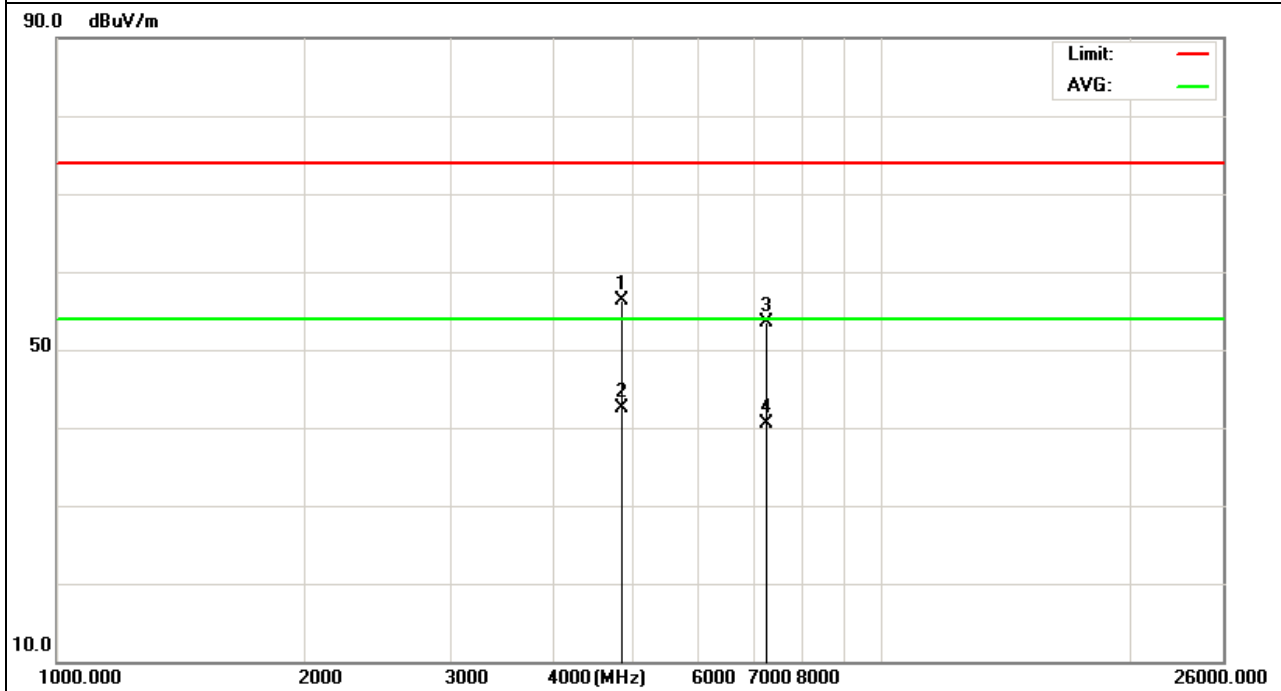


EUT :	WLAN 11n Dual Band module	Model Name :	WL-6210-V3
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V
Test Mode :	CH3(802.11n Mode)/40MHz	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4844.326	45.82	10.5	56.32	74	-17.68	peak
4844.326	31.96	10.5	42.46	54	-11.54	AVG
7266.238	41.05	12.5	53.55	74	-20.45	peak
7266.238	27.92	12.5	40.42	54	-13.58	AVG

Remark:

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

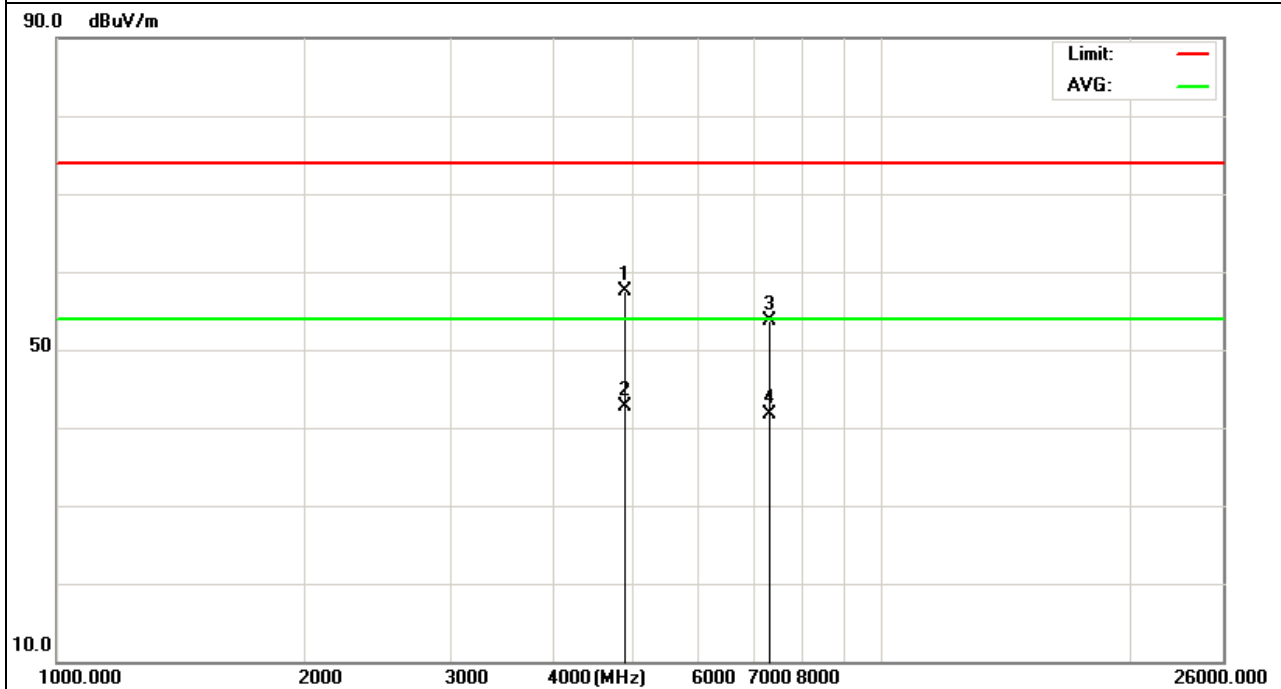


EUT :	WLAN 11n Dual Band module	Model Name :	WL-6210-V3
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V
Test Mode :	CH6(802.11n Mode)/40MHz	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4874.237	47.05	10.4	57.45	74	-16.55	peak
4874.237	32.24	10.4	42.64	54	-11.36	AVG
7311.158	41.01	12.75	53.76	74	-20.24	peak
7311.158	28.88	12.75	41.63	54	-12.37	AVG

Remark:

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

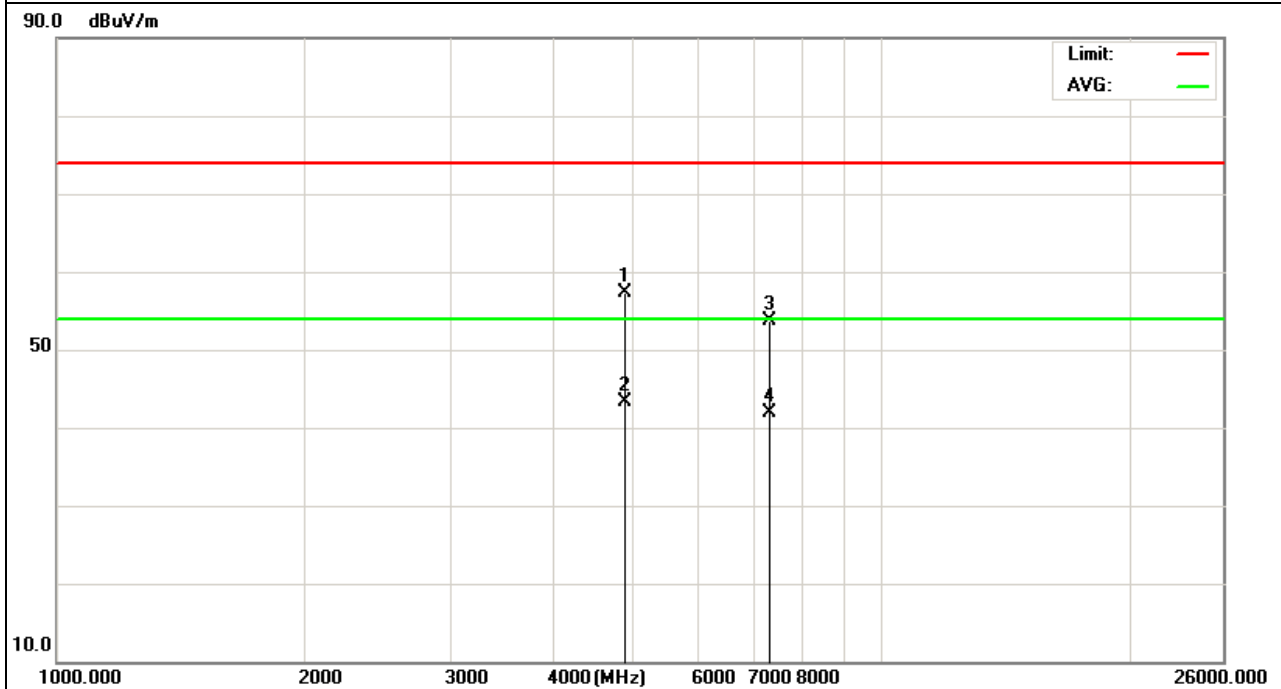


EUT :	WLAN 11n Dual Band module	Model Name :	WL-6210-V3
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V
Test Mode :	CH6(802.11n Mode)/40MHz	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4874.537	46.83	10.4	57.23	74	-16.77	peak
4874.537	32.87	10.4	43.27	54	-10.73	AVG
7311.634	40.87	12.75	53.62	74	-20.38	peak
7311.634	29.1	12.75	41.85	54	-12.15	AVG

Remark:

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

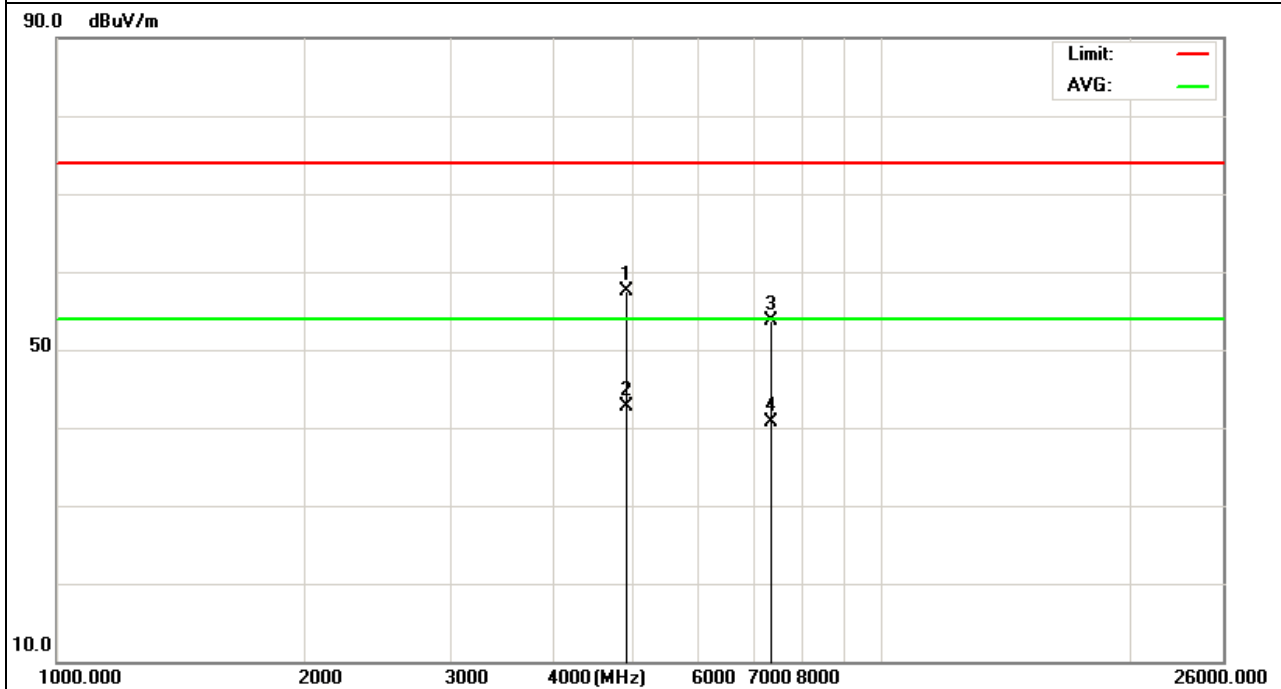


EUT :	WLAN 11n Dual Band module	Model Name :	WL-6210-V3
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V
Test Mode :	CH9(802.11n Mode)/40MHz	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4904.345	47.24	10.29	57.53	74	-16.47	peak
4904.345	32.49	10.29	42.78	54	-11.22	AVG
7356.243	40.83	12.79	53.62	74	-20.38	peak
7356.243	27.82	12.79	40.61	54	-13.39	AVG

Remark:

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

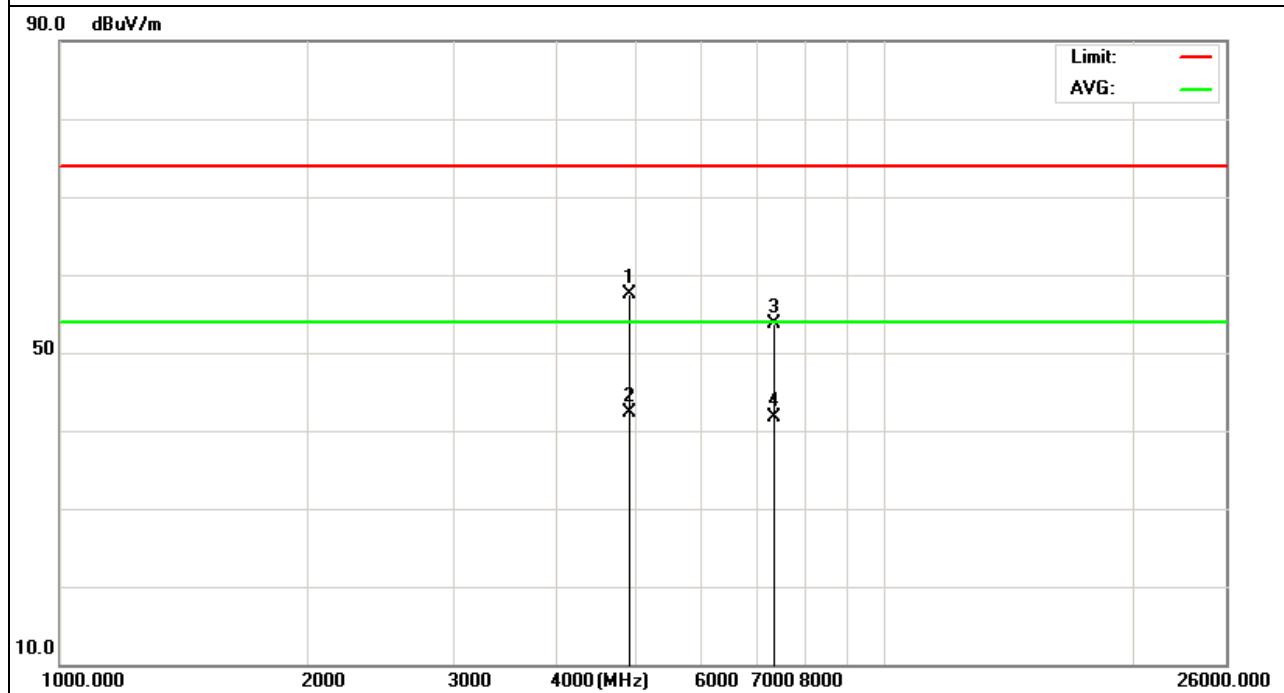


EUT :	WLAN 11n Dual Band module	Model Name :	WL-6210-V3
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V
Test Mode :	CH9(802.11n Mode)/40MHz	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4904.133	47.25	10.29	57.54	74	-16.46	peak
4904.133	32.1	10.29	42.39	54	-11.61	AVG
7356.418	40.88	12.79	53.67	74	-20.33	peak
7356.418	28.86	12.79	41.65	54	-12.35	AVG

Remark:

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



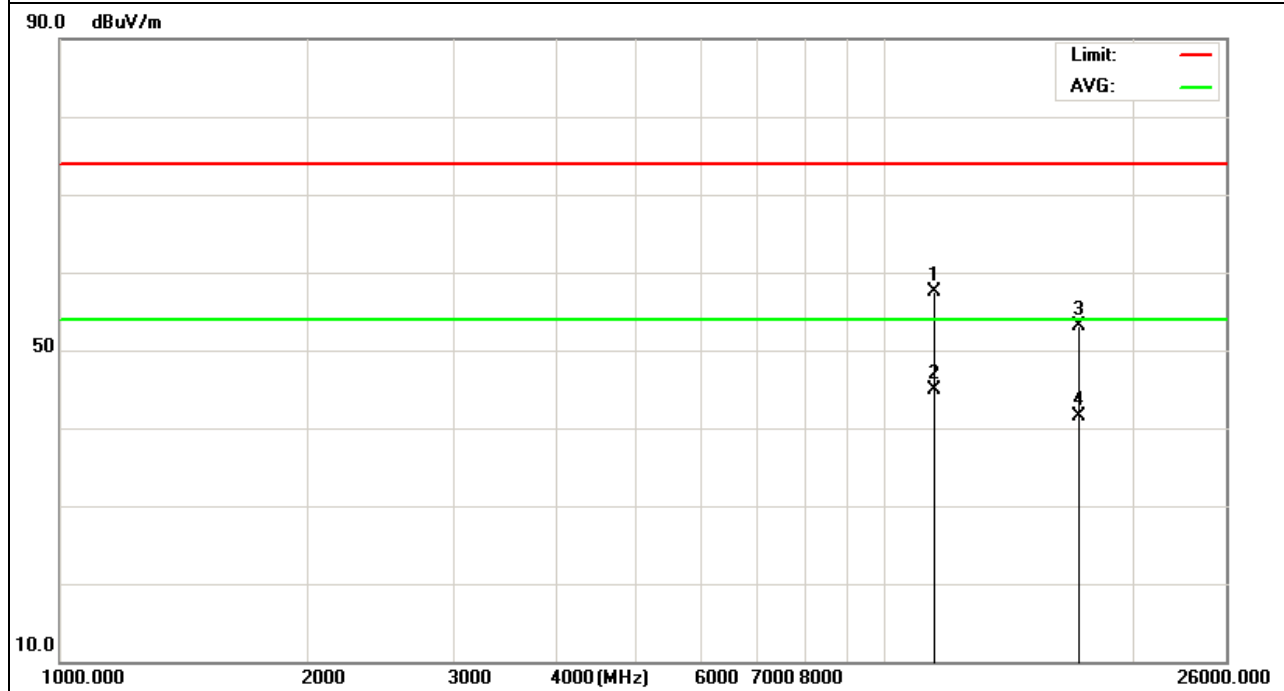
EUT :	WLAN 11n Dual Band module	Model Name :	WL-6210-V3
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V from PC DC 5V
Test Mode :	802.11a/5745MHz	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
11490.058	47.93	9.5	57.43	74	-16.57	peak
11490.058	35.41	9.5	44.91	54	-9.09	AVG
17235.036	35.06	18.1	53.16	74	-20.84	peak
17235.036	23.45	18.1	41.55	54	-12.45	AVG

Remark:

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

No emission detected above 26GHz.



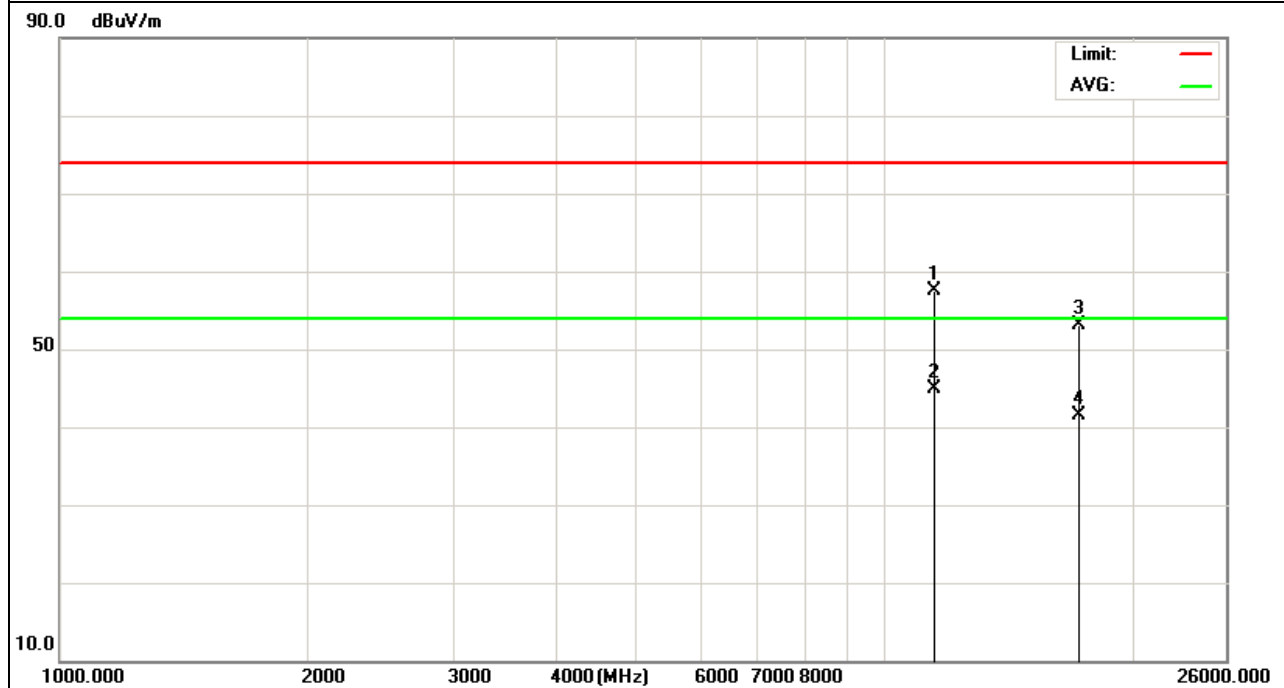
EUT :	WLAN 11n Dual Band module	Model Name :	WL-6210-V3
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V from PC DC 5V
Test Mode :	802.11a/5745MHz	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
11490.015	47.91	9.5	57.41	74	-16.59	peak
11490.015	35.43	9.5	44.93	54	-9.07	AVG
17235.032	35.05	18.1	53.15	74	-20.85	peak
17235.032	23.39	18.1	41.49	54	-12.51	AVG

Remark:

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

No emission detected above 26GHz.



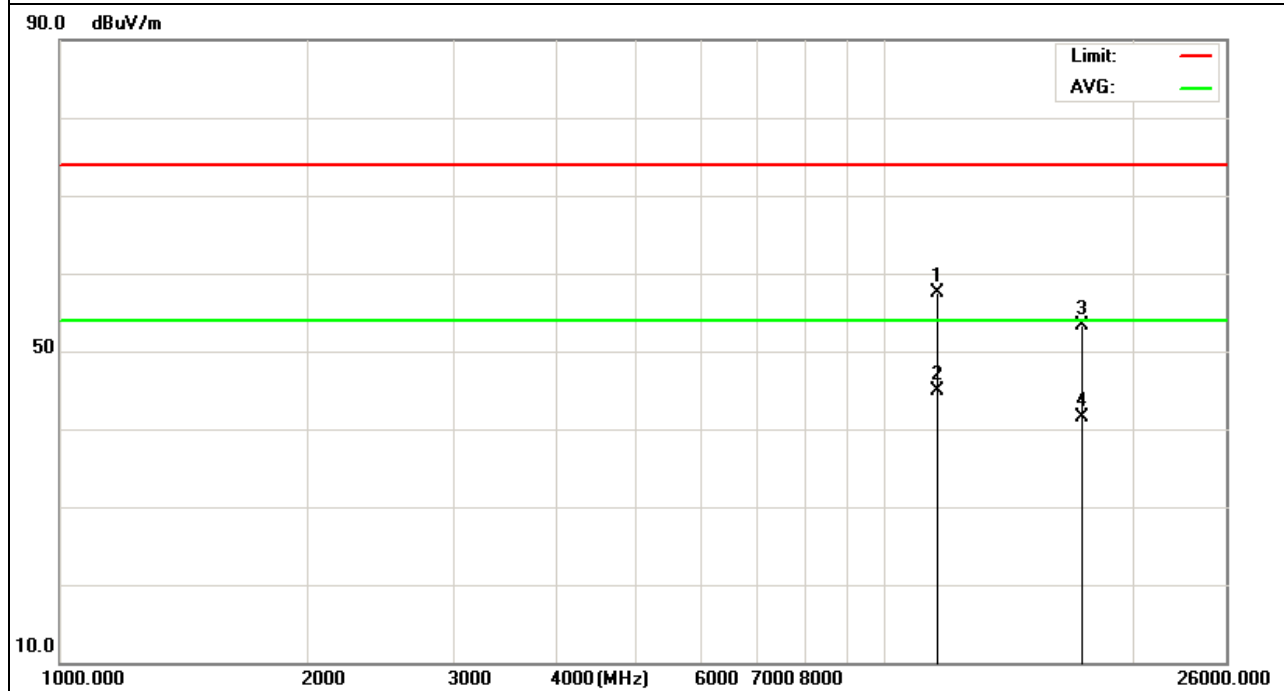
EUT :	WLAN 11n Dual Band module	Model Name :	WL-6210-V3
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V from PC DC 5V
Test Mode :	802.11a/5785MHz	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
11570.135	47.81	9.66	57.47	74	-16.53	peak
11570.135	35.33	9.66	44.99	54	-9.01	AVG
17355.108	35.17	18.11	53.28	74	-20.72	peak
17355.108	23.36	18.11	41.47	54	-12.53	AVG

Remark:

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

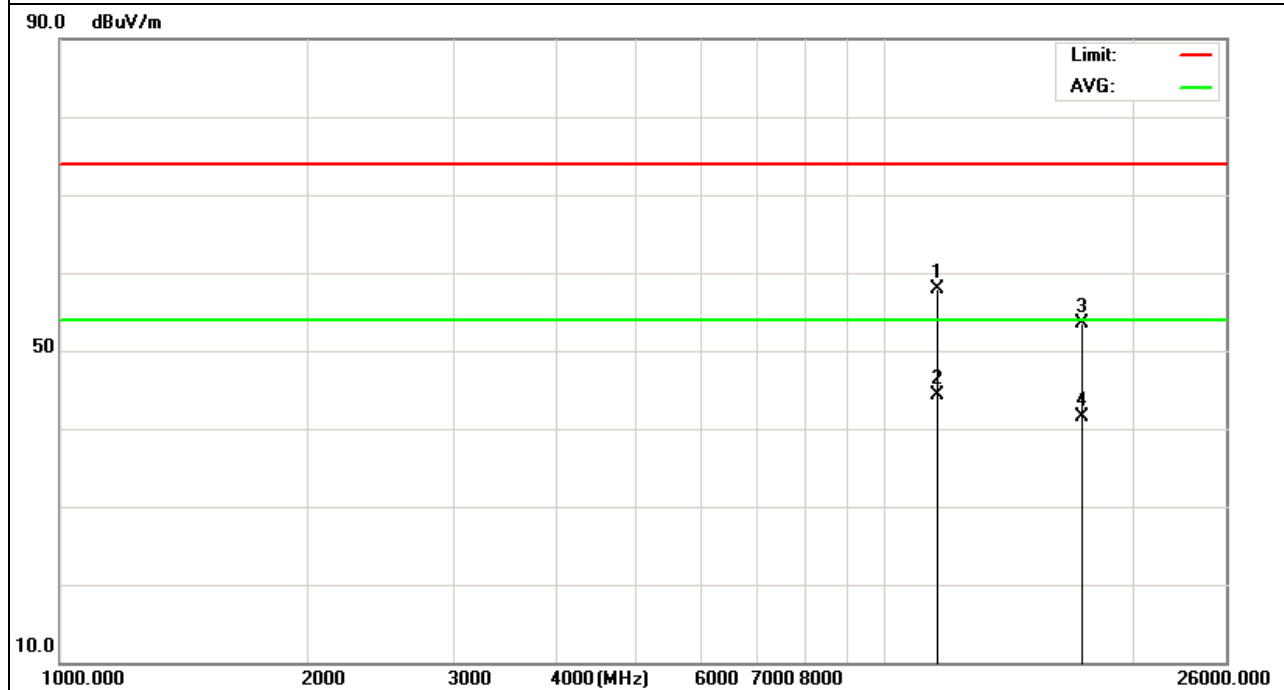
No emission detected above 26GHz.



EUT :	WLAN 11n Dual Band module	Model Name :	WL-6210-V3
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V from PC DC 5V
Test Mode :	802.11a/5785MHz	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
11570.068	48.19	9.66	57.85	74	-16.15	peak
11570.068	34.67	9.66	44.33	54	-9.67	AVG
17355.148	35.45	18.11	53.56	74	-20.44	peak
17355.148	23.3	18.11	41.41	54	-12.59	AVG

Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.
No emission detected above 26GHz



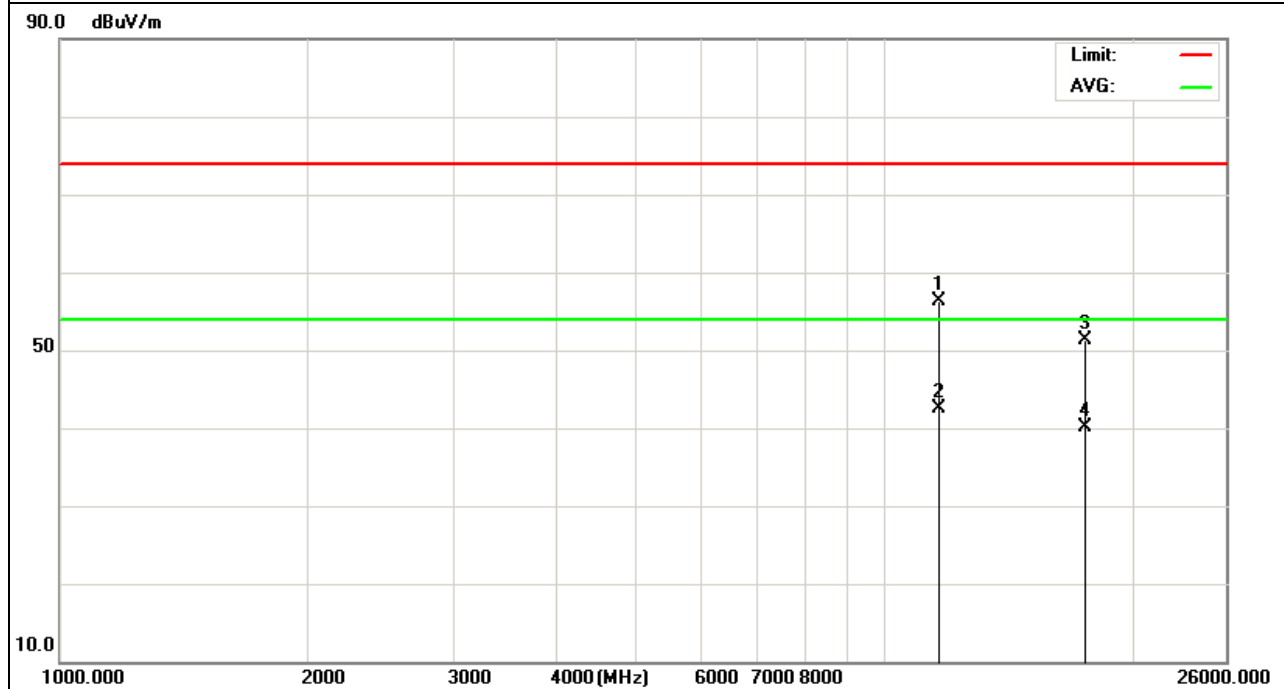
EUT :	WLAN 11n Dual Band module	Model Name :	WL-6210-V3
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V from PC DC 5V
Test Mode :	802.11a/5825MHz	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
11650.046	46.84	9.48	56.32	74	-17.68	peak
11650.046	33	9.48	42.48	54	-11.52	AVG
17475.178	32.52	18.7	51.22	74	-22.78	peak
17475.178	21.48	18.7	40.18	54	-13.82	AVG

Remark:

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

No emission detected above 26GHz.



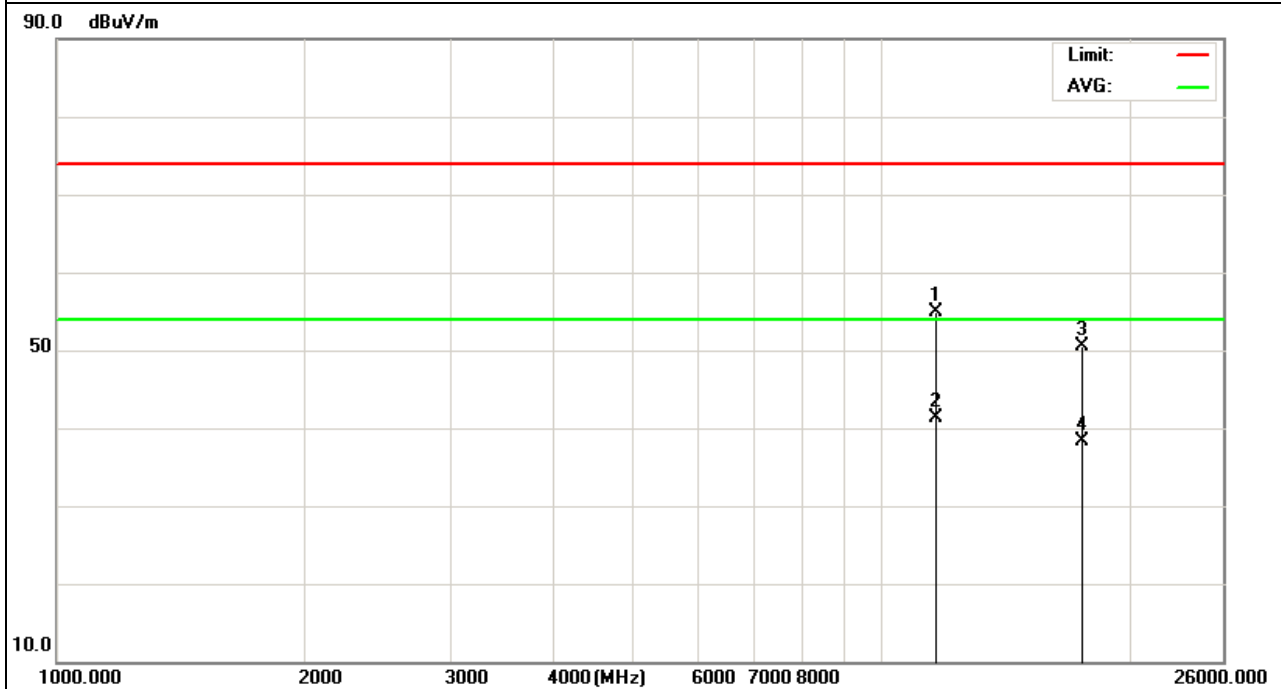
EUT :	WLAN 11n Dual Band module	Model Name :	WL-6210-V3
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V from PC DC 5V
Test Mode :	802.11a/5825MHz	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
11650.286	45.35	9.48	54.83	74	-19.17	peak
11650.286	31.75	9.48	41.23	54	-12.77	AVG
17475.412	31.83	18.69	50.52	74	-23.48	peak
17475.412	19.67	18.69	38.36	54	-15.64	AVG

Remark:

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

No emission detected above 26GHz.



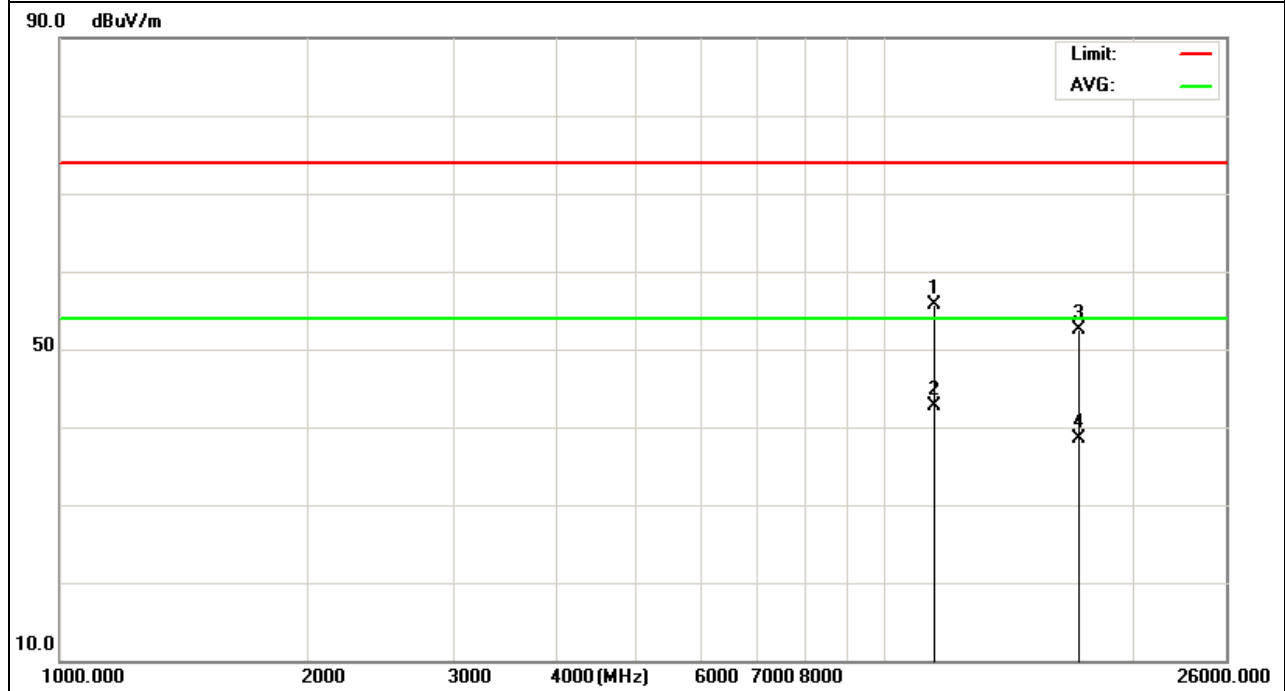
EUT :	WLAN 11n Dual Band module	Model Name :	WL-6210-V3
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V from PC DC 5V
Test Mode :	802.11n(20)/5745MHz	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
11490.086	46.25	9.5	55.75	74	-18.25	peak
11490.086	33.13	9.5	42.63	54	-11.37	AVG
17235.271	34.37	18.1	52.47	74	-21.53	peak
17235.271	20.43	18.1	38.53	54	-15.47	AVG

Remark:

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

No emission detected above 26GHz.



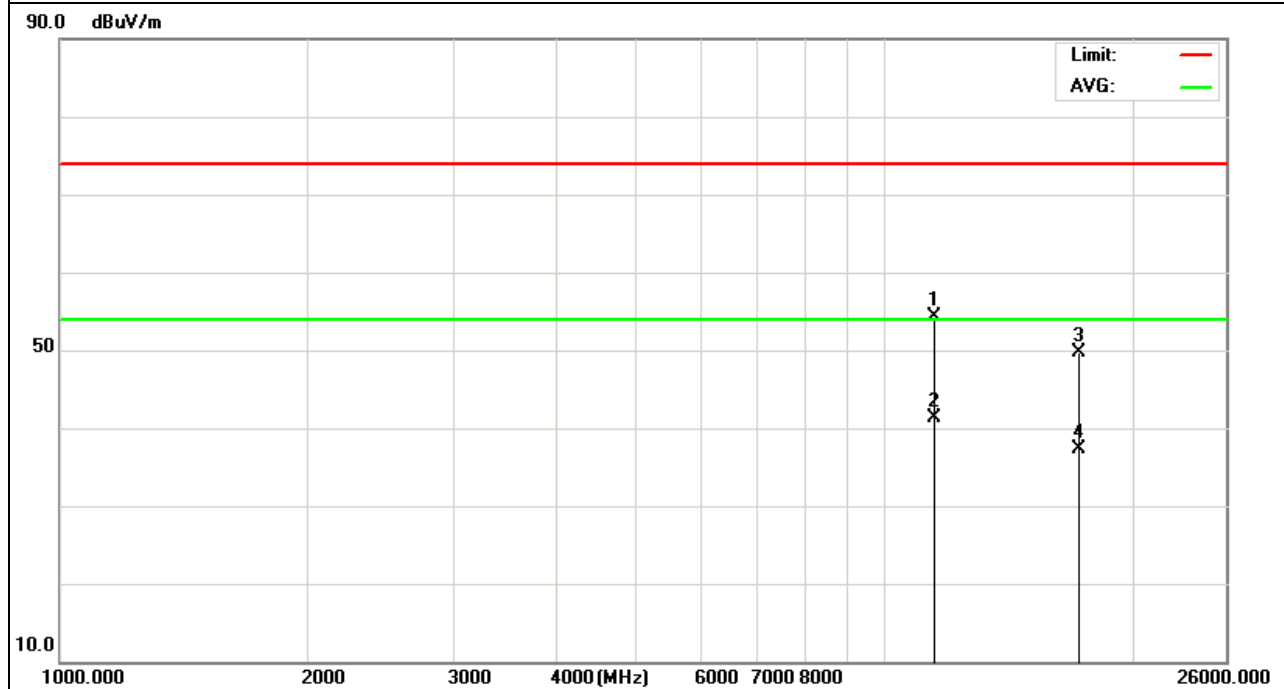
EUT :	WLAN 11n Dual Band module	Model Name :	WL-6210-V3
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V from PC DC 5V
Test Mode :	802.11n(20)/5745MHz	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
11490.42	44.76	9.5	54.26	74	-19.74	peak
11490.42	31.88	9.5	41.38	54	-12.62	AVG
17235.218	31.57	18.1	49.67	74	-24.33	peak
17235.218	19.29	18.1	37.39	54	-16.61	AVG

Remark:

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

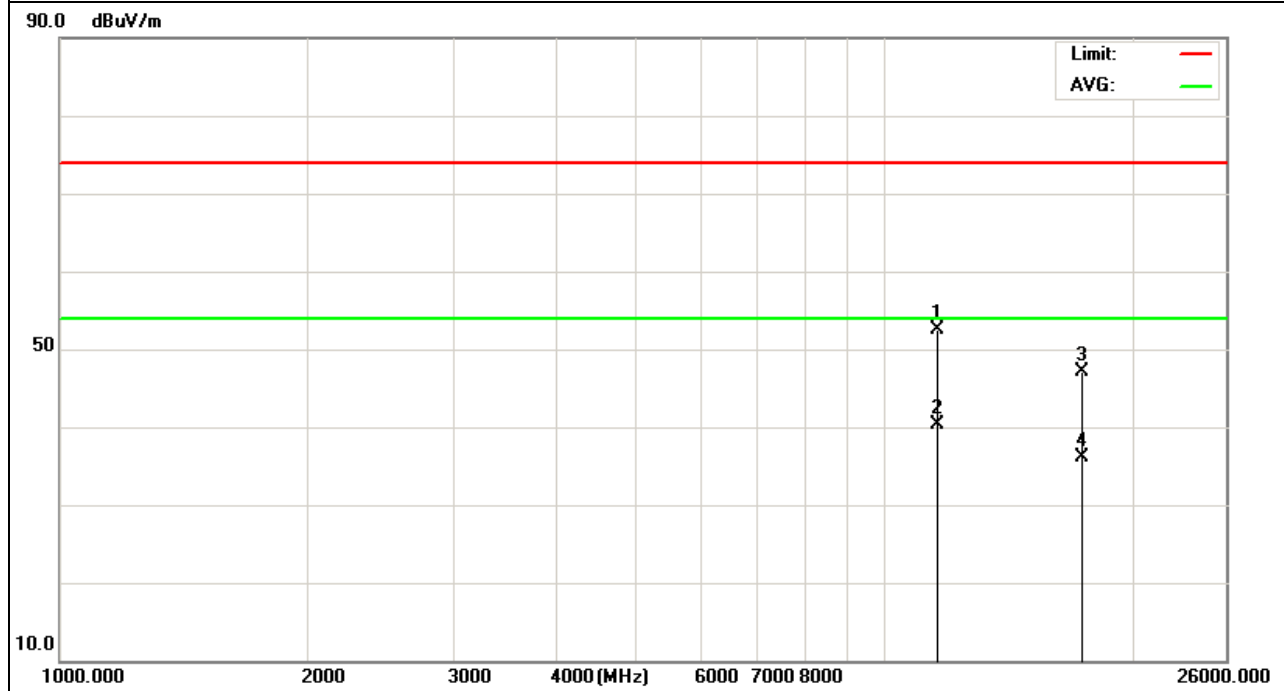
No emission detected above 26GHz.



EUT :	WLAN 11n Dual Band module	Model Name :	WL-6210-V3
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V from PC DC 5V
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
11570.441	42.91	9.66	52.57	74	-21.43	peak
11570.441	30.65	9.66	40.31	54	-13.69	AVG
17355.169	28.94	18.11	47.05	74	-26.95	peak
17355.169	18.01	18.11	36.12	54	-17.88	AVG

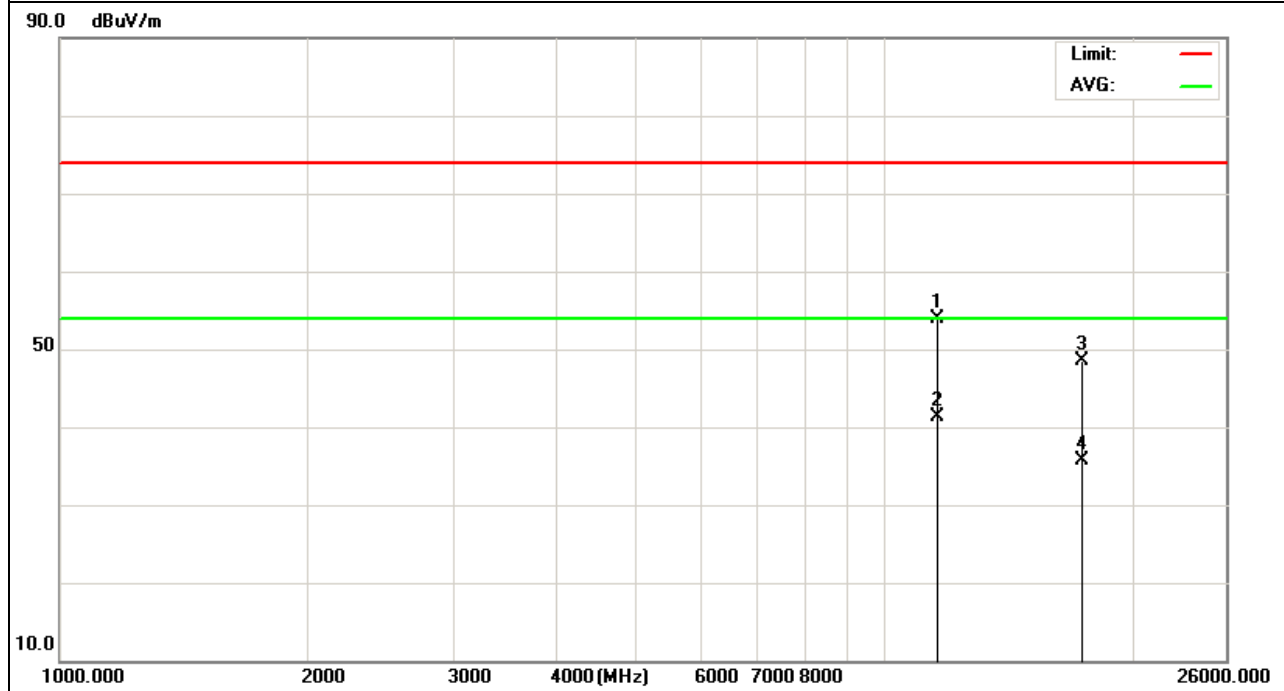
Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.
No emission detected above 26GHz.



EUT :	WLAN 11n Dual Band module	Model Name :	WL-6210-V3
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V from PC DC 5V
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
11570.312	44.21	9.66	53.87	74	-20.13	peak
11570.312	31.55	9.66	41.21	54	-12.79	AVG
17355.086	30.31	18.11	48.42	74	-25.58	peak
17355.086	17.51	18.11	35.62	54	-18.38	AVG

Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.
No emission detected above 26GHz.



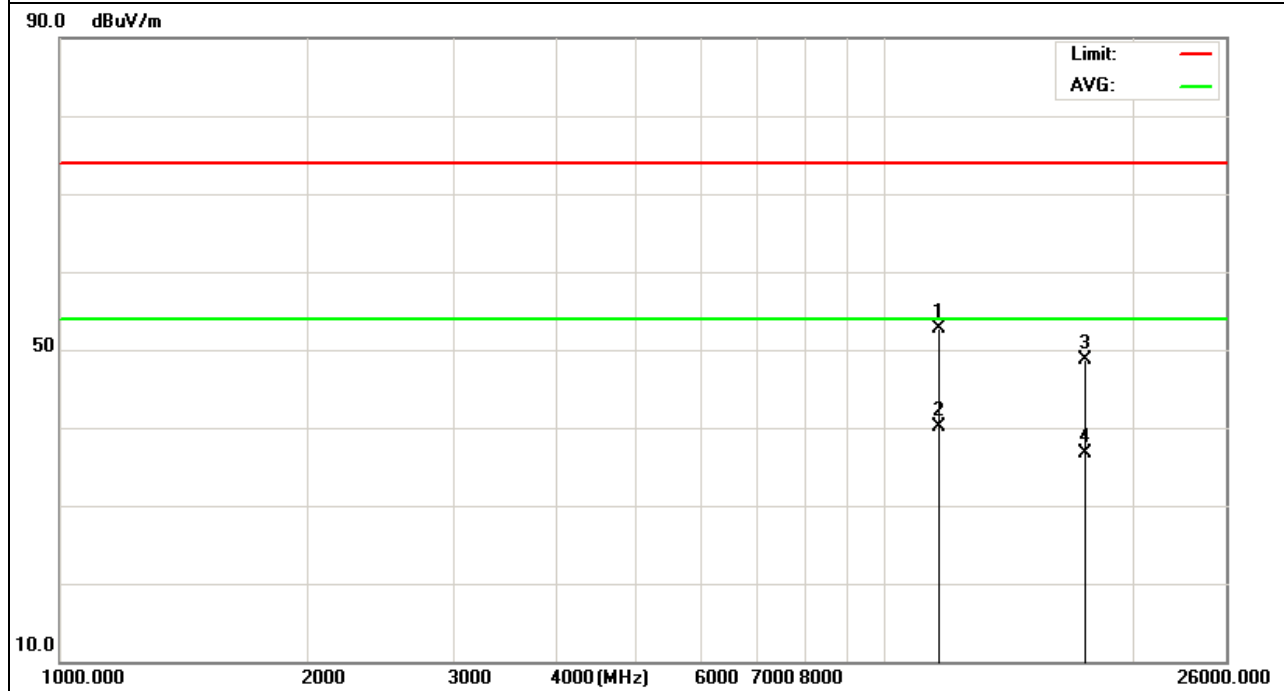
EUT :	WLAN 11n Dual Band module	Model Name :	WL-6210-V3
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V from PC DC 5V
Test Mode :	802.11n(20)/5825MHz	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
11650.175	43.27	9.48	52.75	74	-21.25	peak
11650.175	30.65	9.48	40.13	54	-13.87	AVG
17475.434	29.95	18.69	48.64	74	-25.36	peak
17475.434	18.1	18.69	36.79	54	-17.21	AVG

Remark:

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

No emission detected above 26GHz.



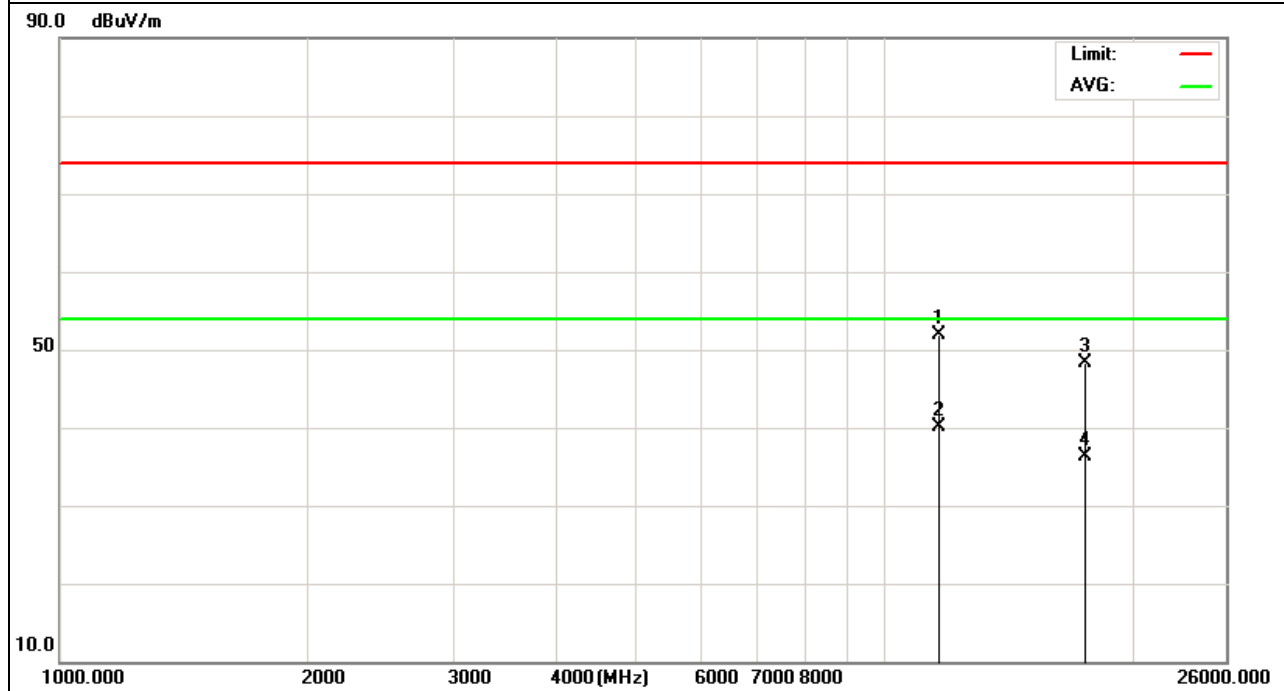
EUT :	WLAN 11n Dual Band module	Model Name :	WL-6210-V3
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V from PC DC 5V
Test Mode :	802.11n(20)/5825MHz	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
11650.378	42.45	9.48	51.93	74	-22.07	peak
11650.378	30.53	9.48	40.01	54	-13.99	AVG
17475.206	29.67	18.7	48.37	74	-25.63	peak
17475.206	17.55	18.7	36.25	54	-17.75	AVG

Remark:

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

No emission detected above 26GHz.



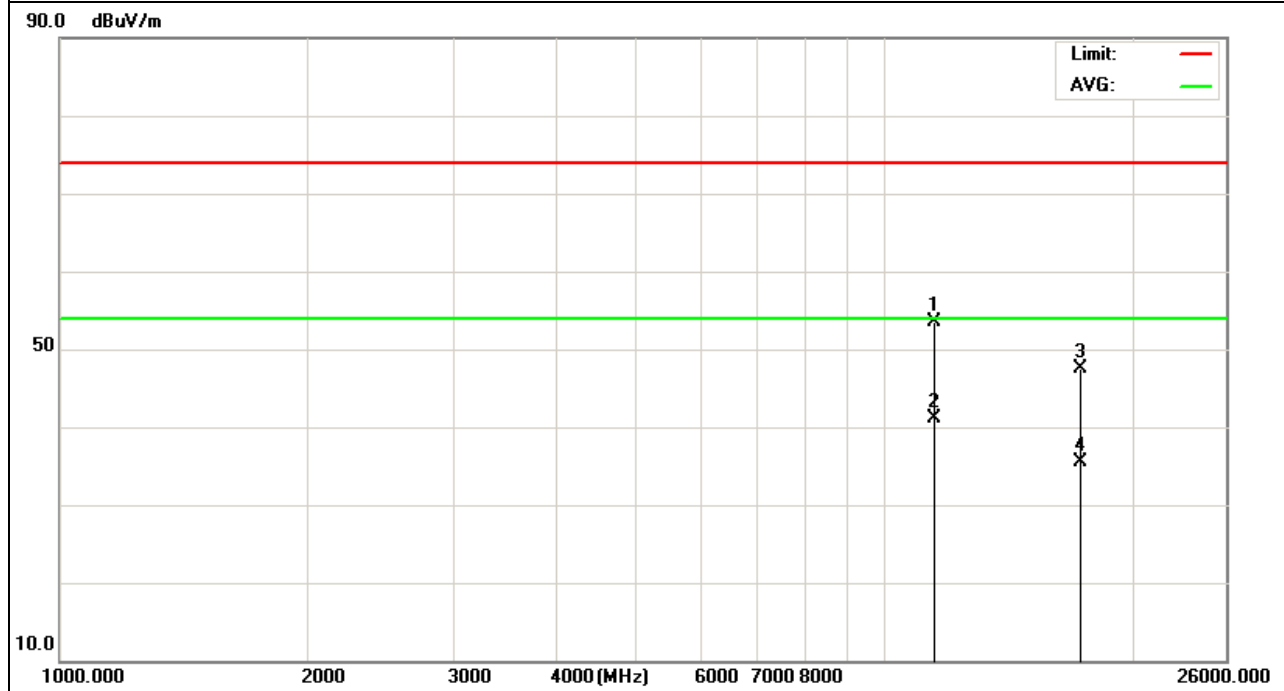
EUT :	WLAN 11n Dual Band module	Model Name :	WL-6210-V3
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V from PC DC 5V
Test Mode :	802.11n(40)/5755MHz	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
11510.187	43.96	9.5	53.46	74	-20.54	peak
11510.187	31.7	9.5	41.2	54	-12.8	AVG
17265.298	29.46	18.07	47.53	74	-26.47	peak
17265.298	17.46	18.07	35.53	54	-18.47	AVG

Remark:

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

No emission detected above 26GHz.



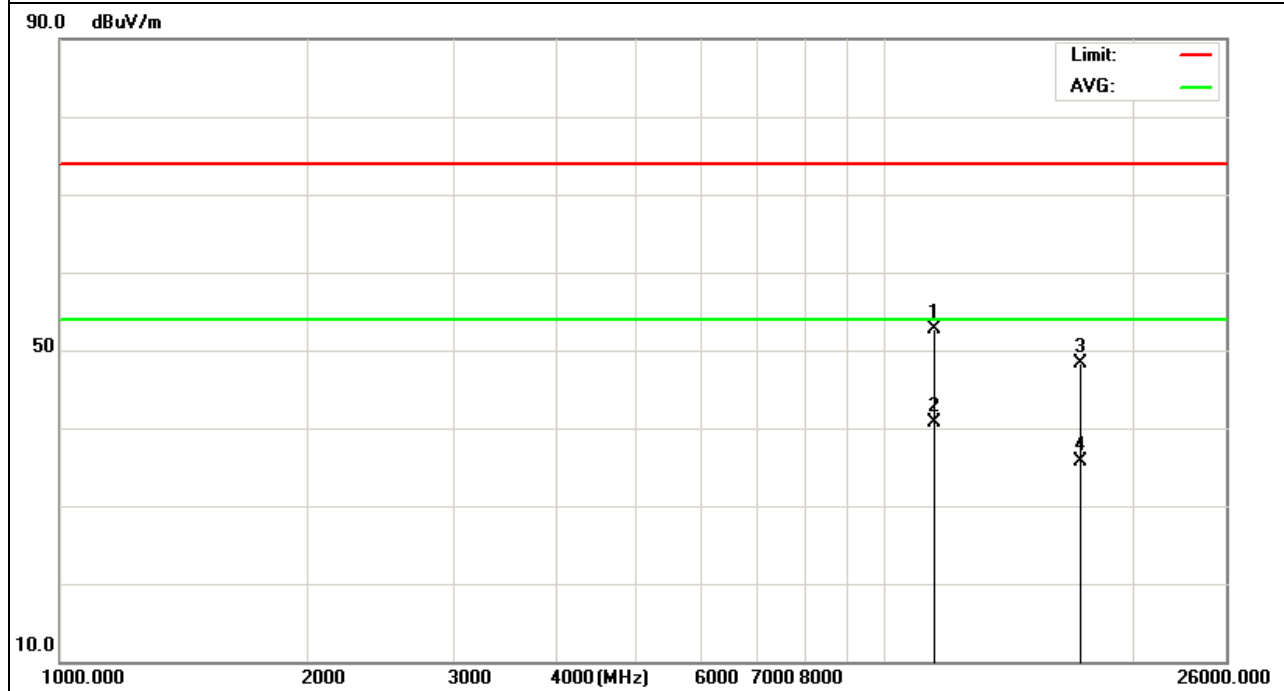
EUT :	WLAN 11n Dual Band module	Model Name :	WL-6210-V3
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V from PC DC 5V
Test Mode :	802.11n(40)/5755MHz	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
11510.13	43.18	9.5	52.68	74	-21.32	peak
11510.13	31.22	9.5	40.72	54	-13.28	AVG
17265.241	30.16	18.07	48.23	74	-25.77	peak
17265.241	17.69	18.07	35.76	54	-18.24	AVG

Remark:

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

No emission detected above 26GHz.



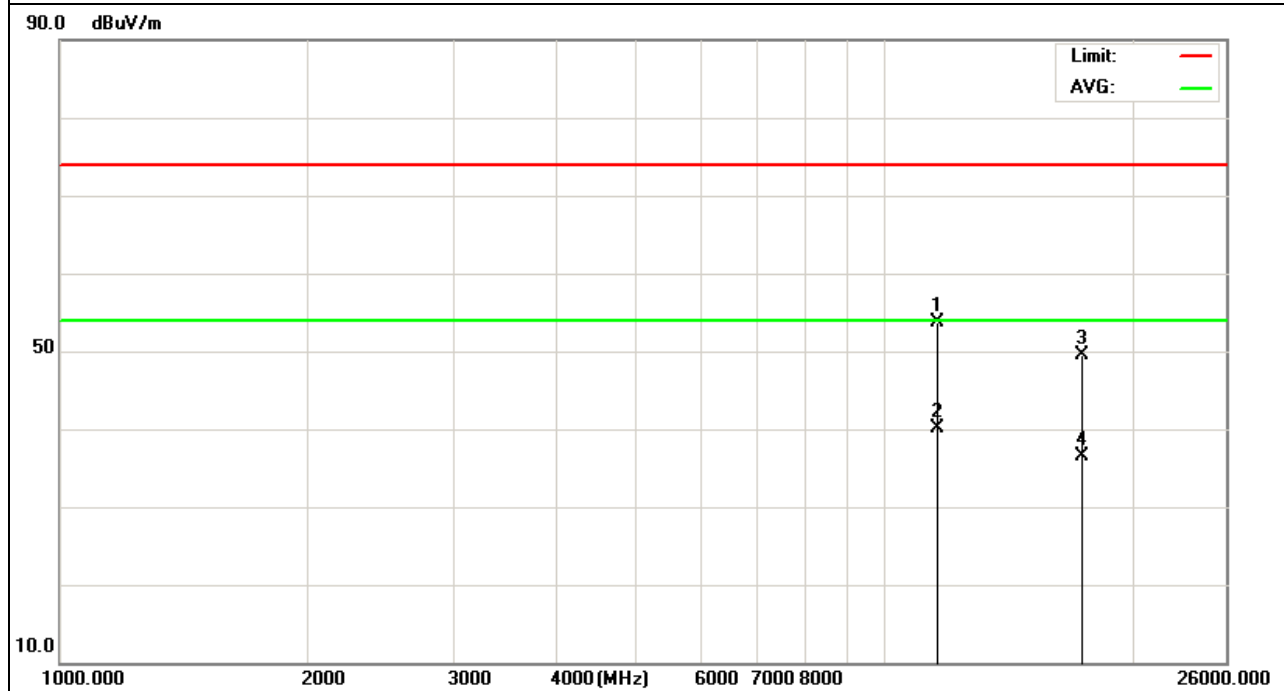
EUT :	WLAN 11n Dual Band module	Model Name :	WL-6210-V3
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V from PC DC 5V
Test Mode :	802.11n(40)/5795MHz	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
11590.315	43.96	9.72	53.68	74	-20.32	peak
11590.315	30.36	9.72	40.08	54	-13.92	AVG
17385.219	31.19	18.4	49.59	74	-24.41	peak
17385.219	18.03	18.4	36.43	54	-17.57	AVG

Remark:

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

No emission detected above 26GHz.



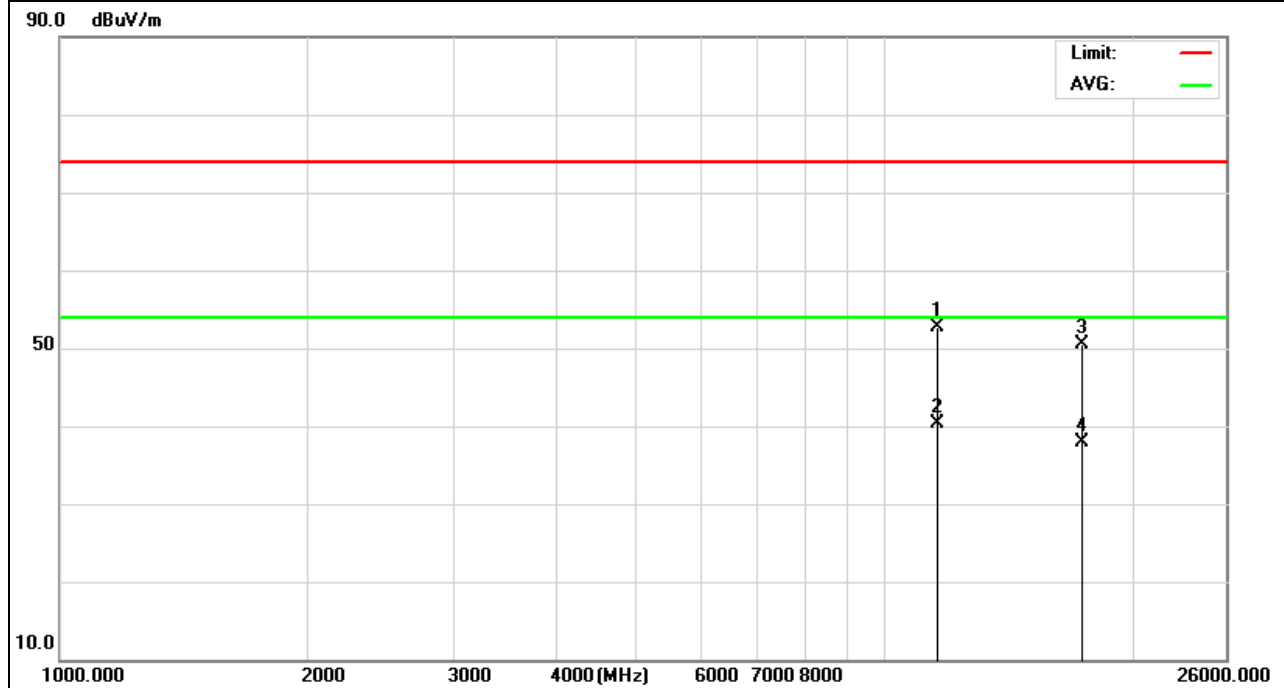
EUT :	WLAN 11n Dual Band module	Model Name :	WL-6210-V3
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V from PC DC 5V
Test Mode :	802.11n(40)/5795MHz	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
11590.486	42.94	9.72	52.66	74	-21.34	peak
11590.486	30.53	9.72	40.25	54	-13.75	AVG
17385.413	32.11	18.4	50.51	74	-23.49	peak
17385.413	19.46	18.4	37.86	54	-16.14	AVG

Remark:

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

No emission detected above 26GHz.

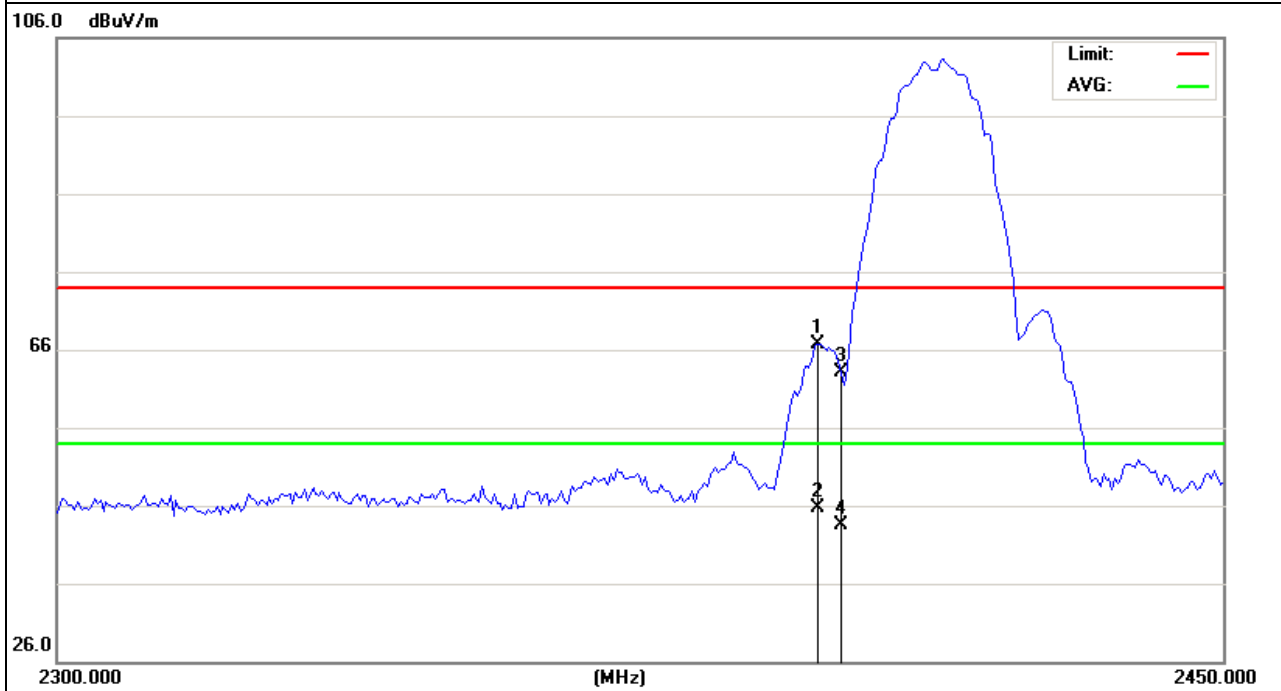


EUT :	WLAN 11n Dual Band module	Model Name :	WL-6210-V3
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V
Test Mode :	CH1(802.11b Mode)	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2397.125	84.18	-17.48	66.7	74	-7.3	peak
2397.125	63.22	-17.48	45.74	54	-8.26	AVG
2400.000	80.65	-17.46	63.19	74	-10.81	peak
2400.000	60.89	-17.46	43.43	54	-10.57	AVG

Remark:

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

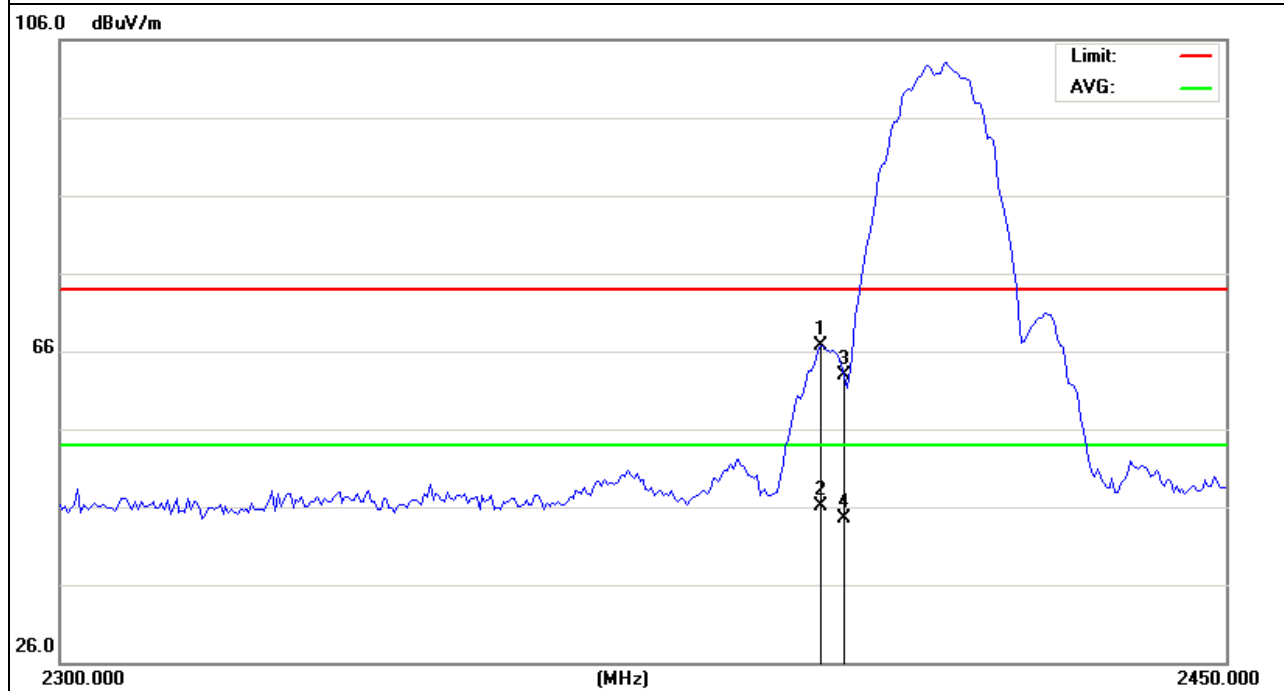


EUT :	WLAN 11n Dual Band module	Model Name :	WL-6210-V3
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V
Test Mode :	CH1(802.11b Mode)	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2397.125	84.21	-17.48	66.73	74	-7.27	peak
2397.125	63.67	-17.48	46.19	54	-7.81	AVG
2400.000	80.44	-17.46	62.98	74	-11.02	peak
2400.000	61.97	-17.46	44.51	54	-9.49	AVG

Remark:

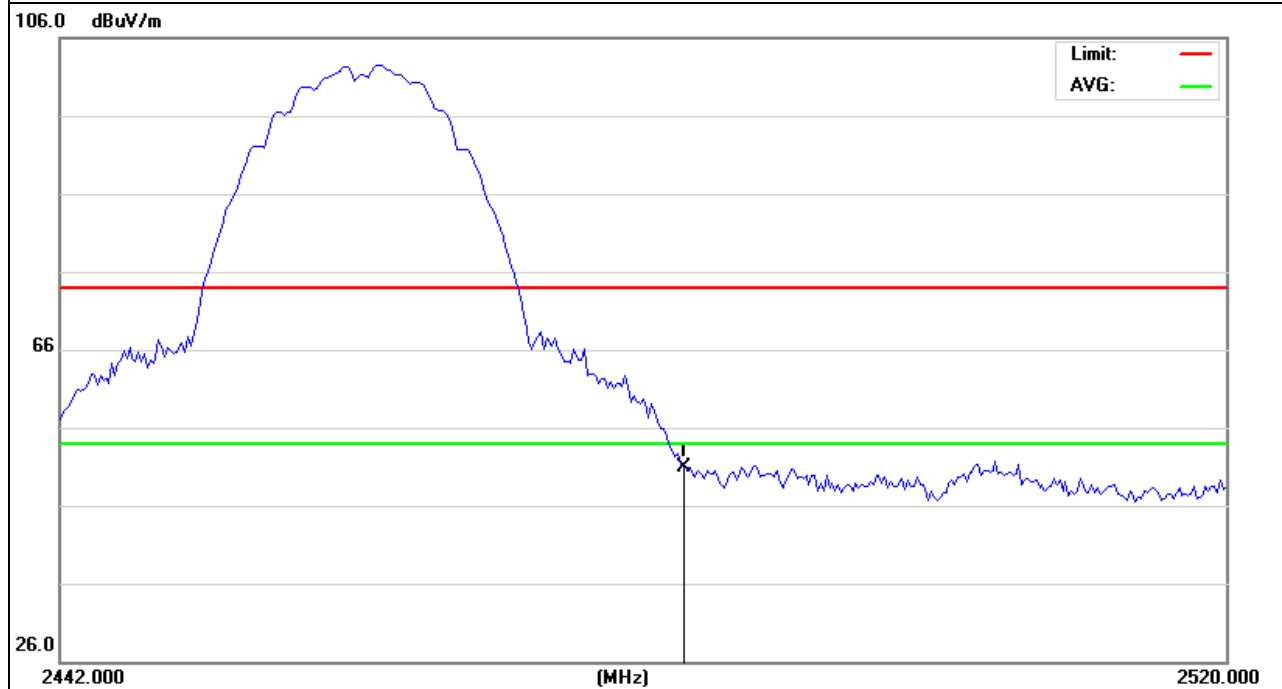
Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT :	WLAN 11n Dual Band module	Model Name :	WL-6210-V3
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V
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
2483.500	68.19	-17.35	50.84	74	-23.16	peak

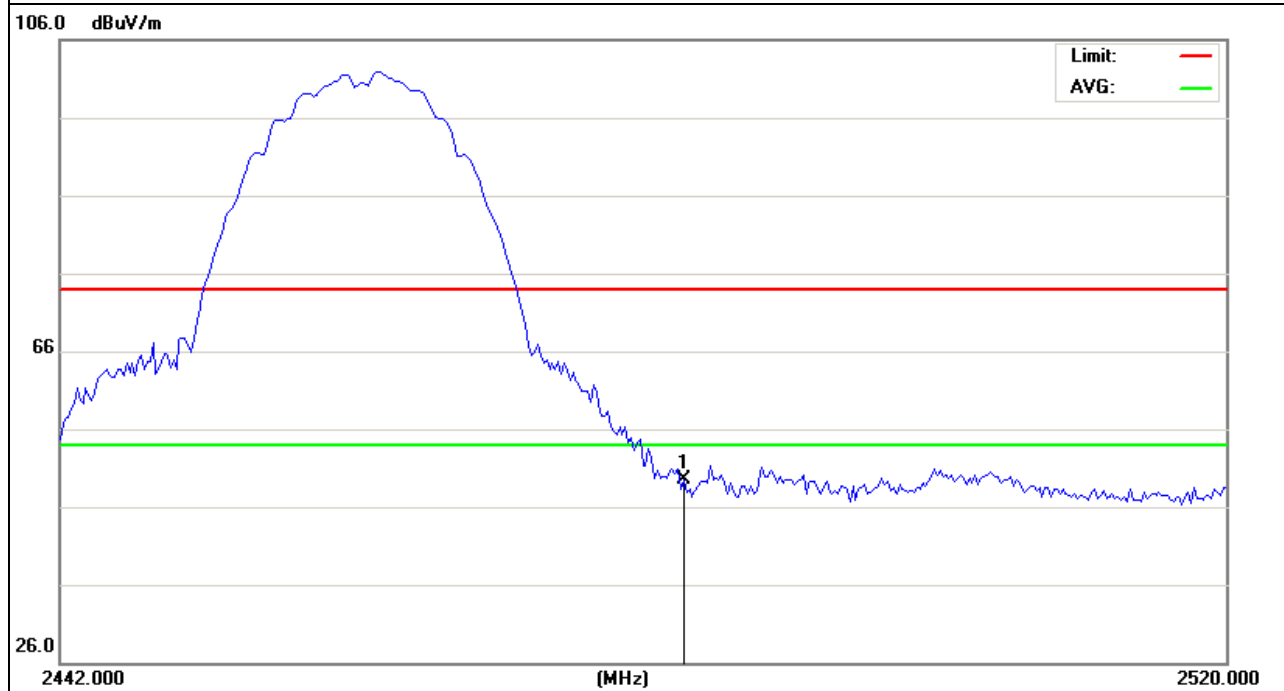
Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT :	WLAN 11n Dual Band module	Model Name :	WL-6210-V3
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V
Test Mode :	CH11(802.11b Mode)	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2483.000	66.85	-17.35	49.5	74	-24.5	peak

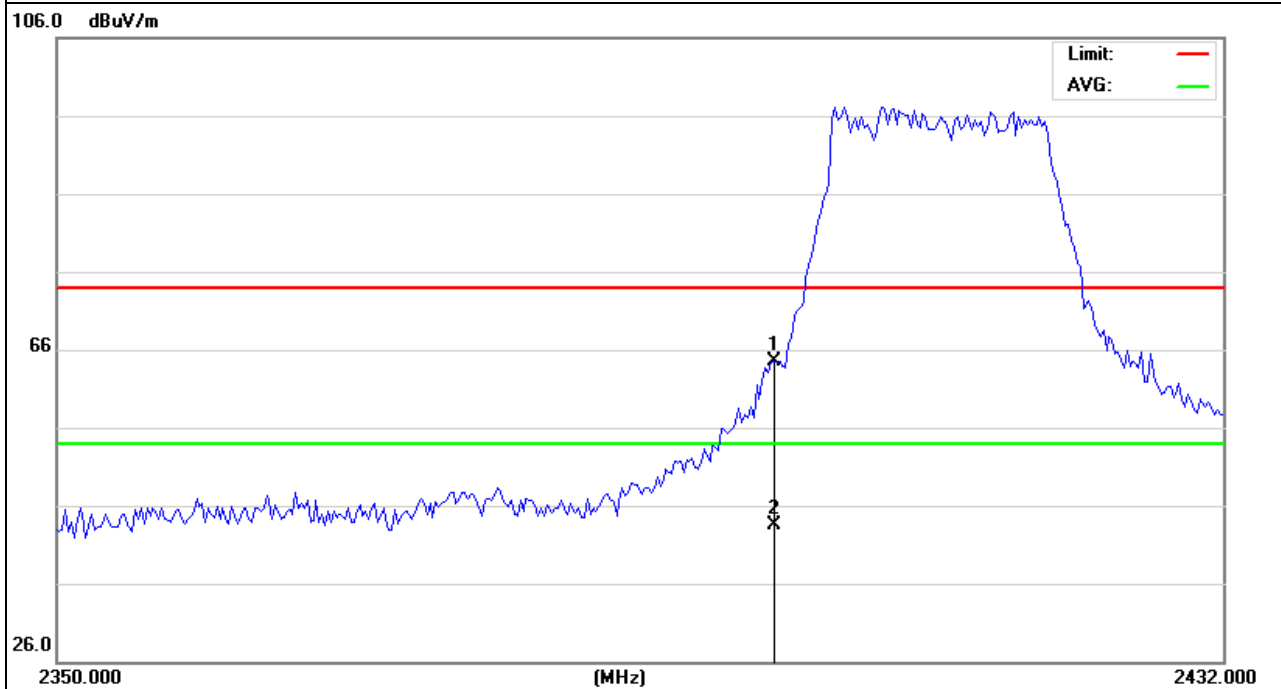
Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT :	WLAN 11n Dual Band module	Model Name :	WL-6210-V3
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V
Test Mode :	CH1(802.11g Mode)	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2400.00	81.96	-17.46	64.5	74	-9.5	peak
2400.00	60.93	-17.46	43.47	54	-10.53	AVG

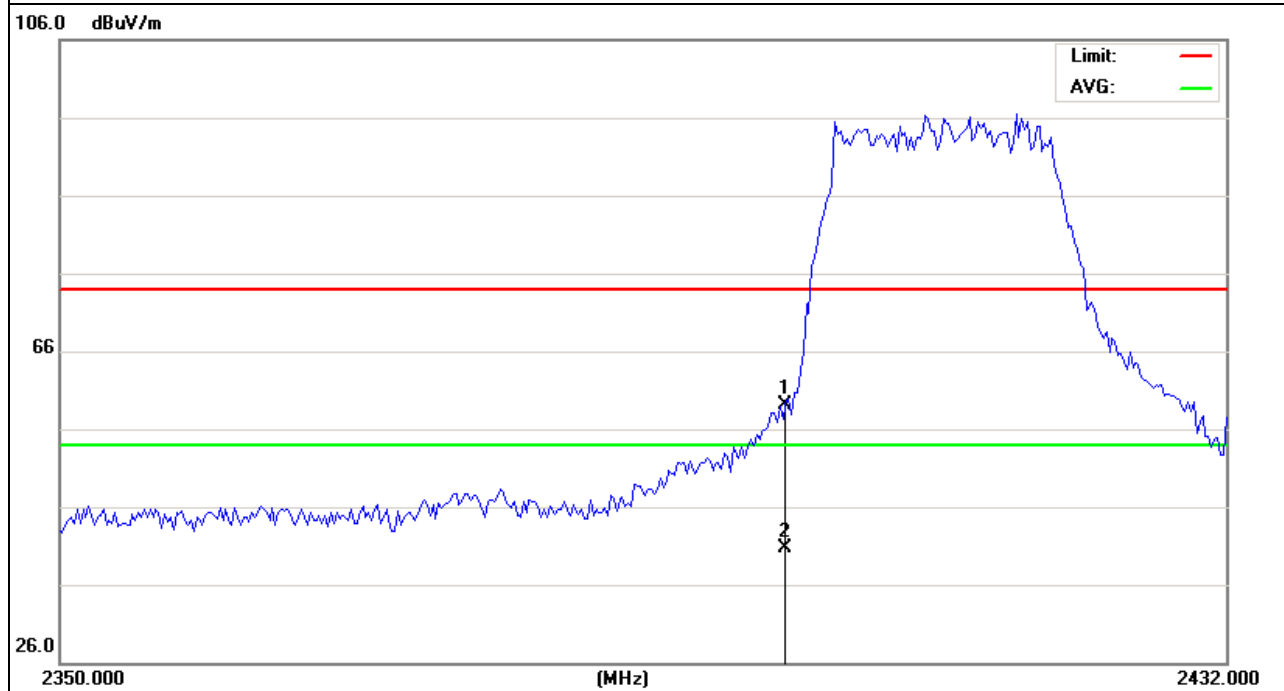
Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT :	WLAN 11n Dual Band module	Model Name :	WL-6210-V3
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V
Test Mode :	CH1(802.11gMode)	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2400.00	76.66	-17.46	59.2	74	-14.8	peak
2400.00	58.09	-17.46	40.63	54	-13.37	AVG

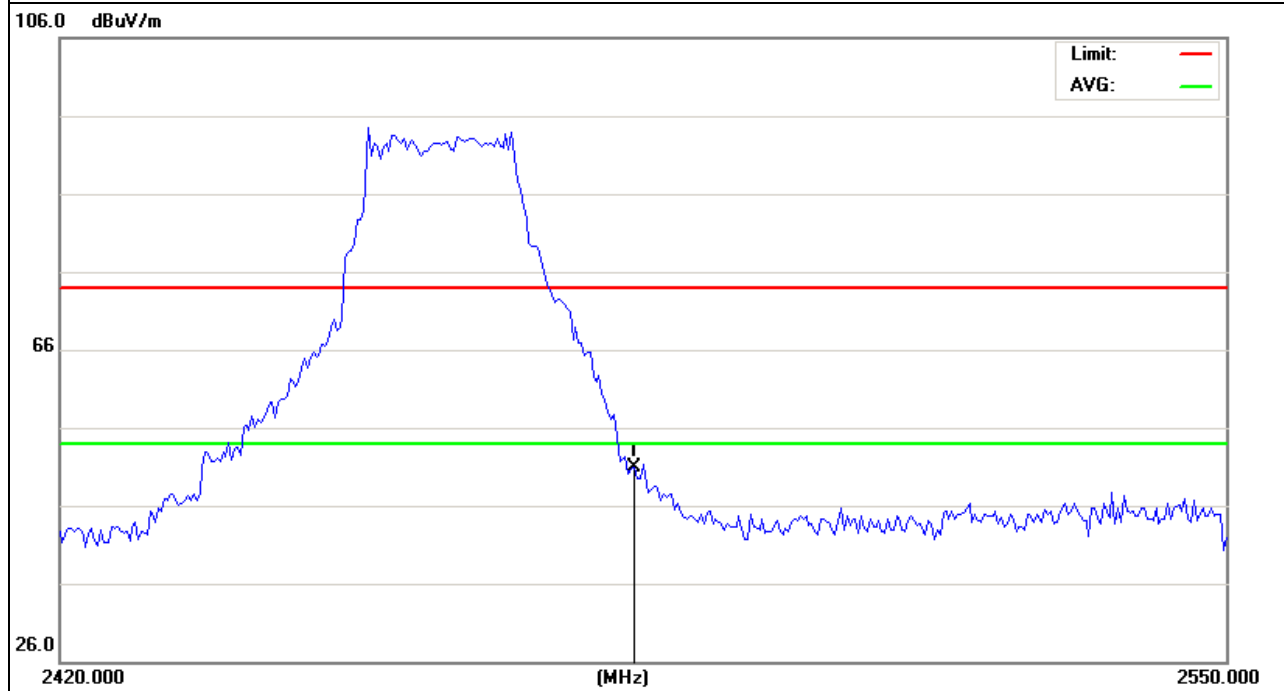
Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT :	WLAN 11n Dual Band module	Model Name :	WL-6210-V3
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V
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	68.35	-17.35	51	74	-23	peak

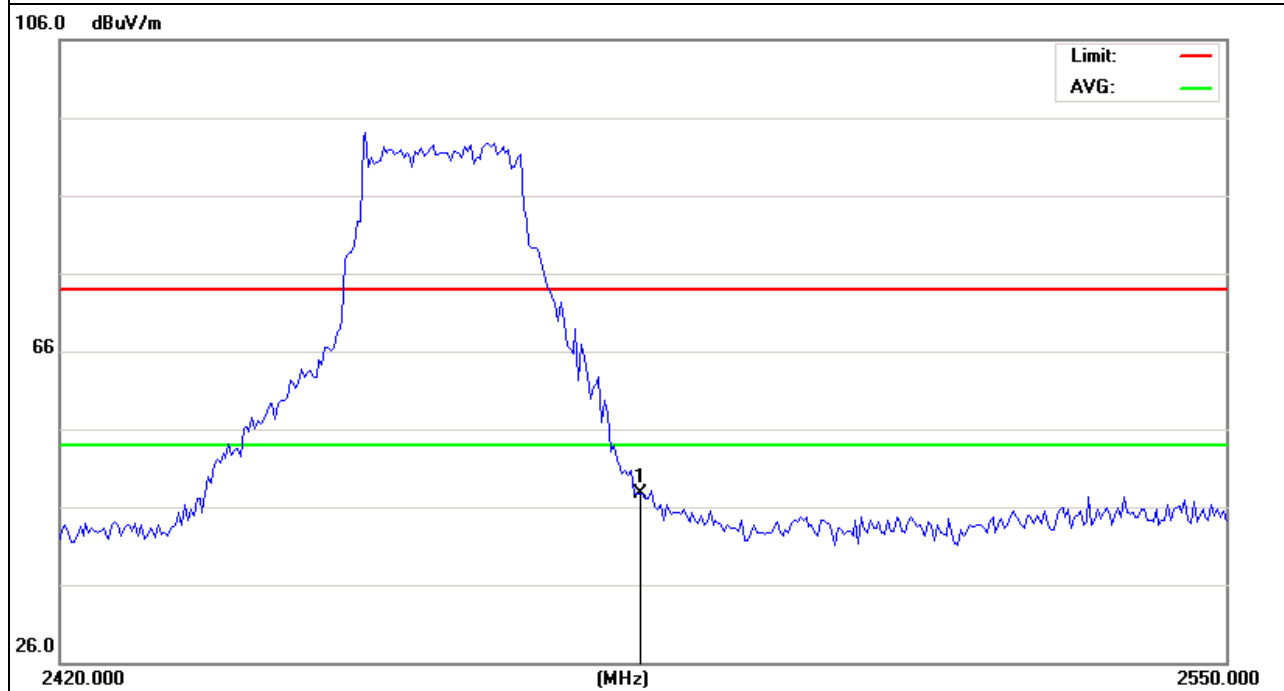
Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT :	WLAN 11n Dual Band module	Model Name :	WL-6210-V3
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V
Test Mode :	CH11(802.11g Mode)	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2483.5	65.05	-17.35	47.7	74	-26.3	peak

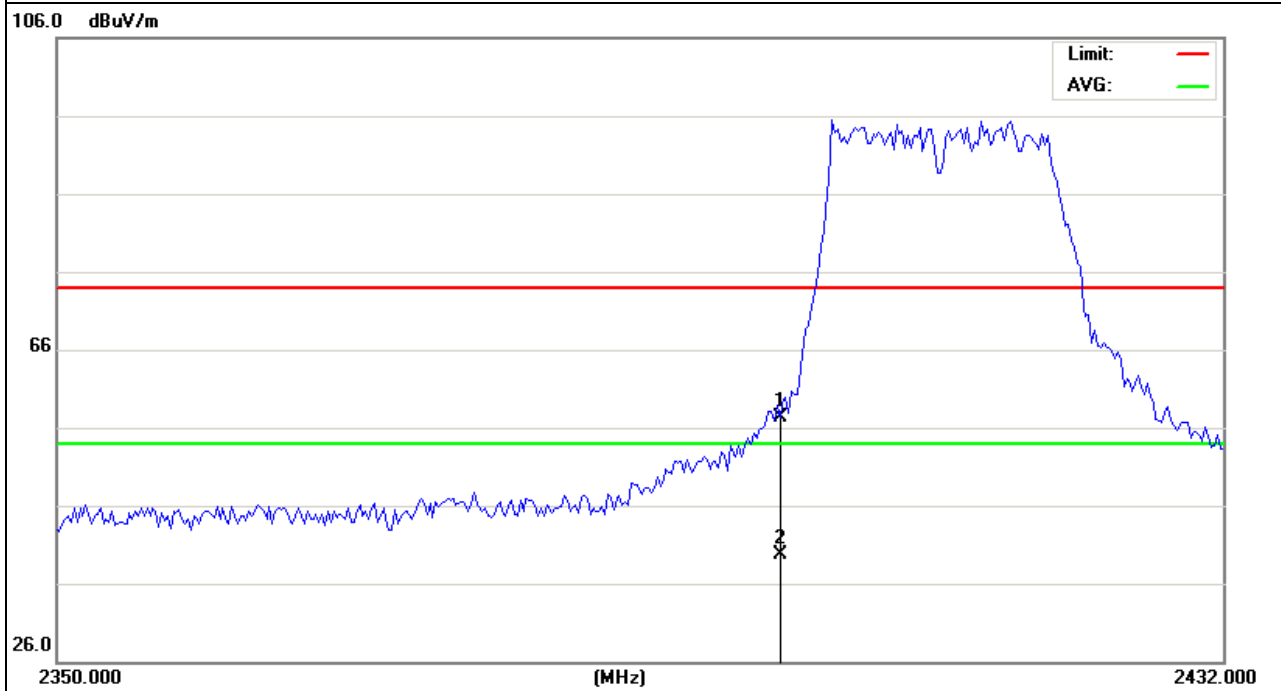
Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT :	WLAN 11n Dual Band module	Model Name :	WL-6210-V3
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V
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
2400.00	74.76	-17.46	57.3	74	-16.7	peak
2400.00	57.22	-17.46	39.76	54	-14.24	AVG

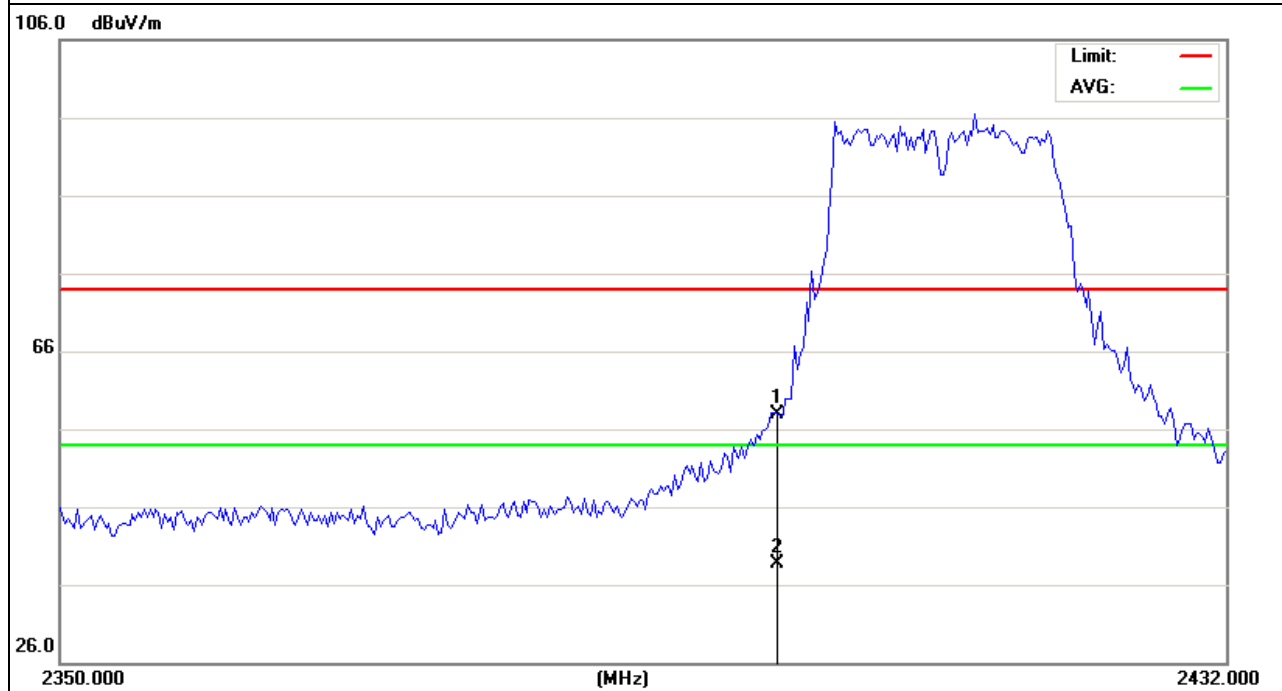
Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT :	WLAN 11n Dual Band module	Model Name :	WL-6210-V3
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V
Test Mode :	CH1(802.11N Mode)/20M	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2400.00	75.46	-17.46	58	74	-16	peak
2400.00	56.11	-17.46	38.65	54	-15.35	AVG

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

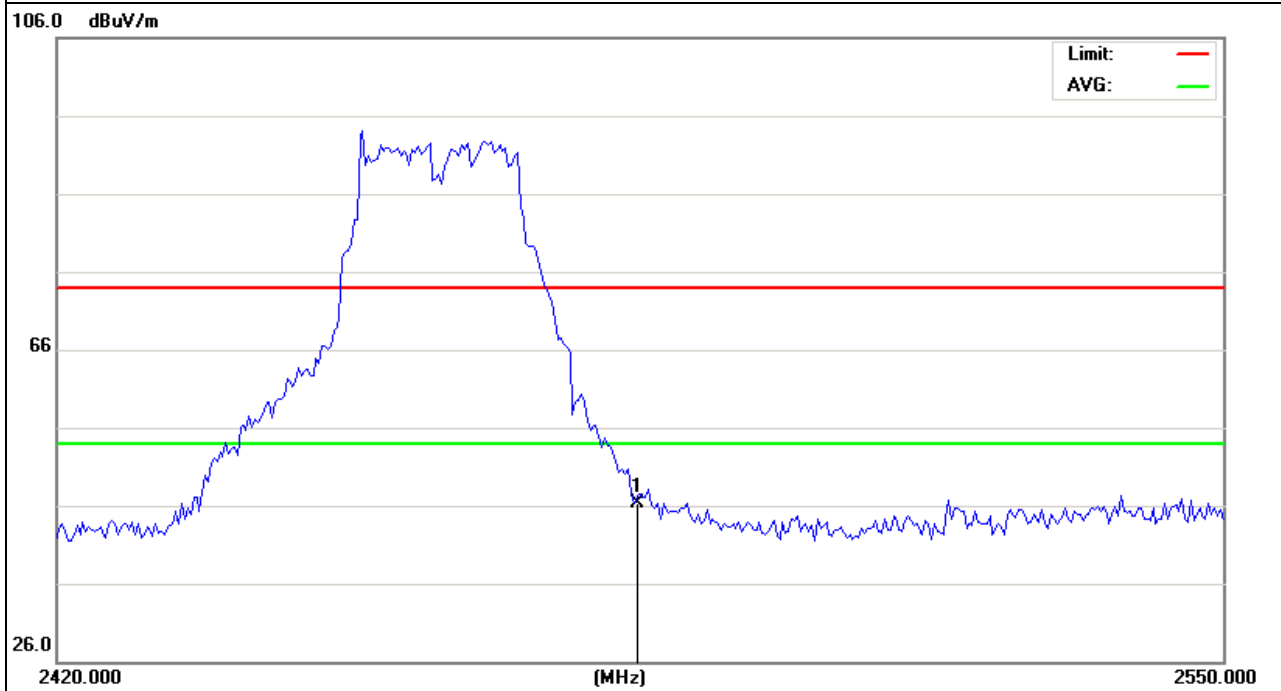


EUT :	WLAN 11n Dual Band module	Model Name :	WL-6210-V3
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V
Test Mode :	CH11(802.11N Mode)/20MHz	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2483.5	63.75	-17.35	46.4	74	-27.6	

Remark:

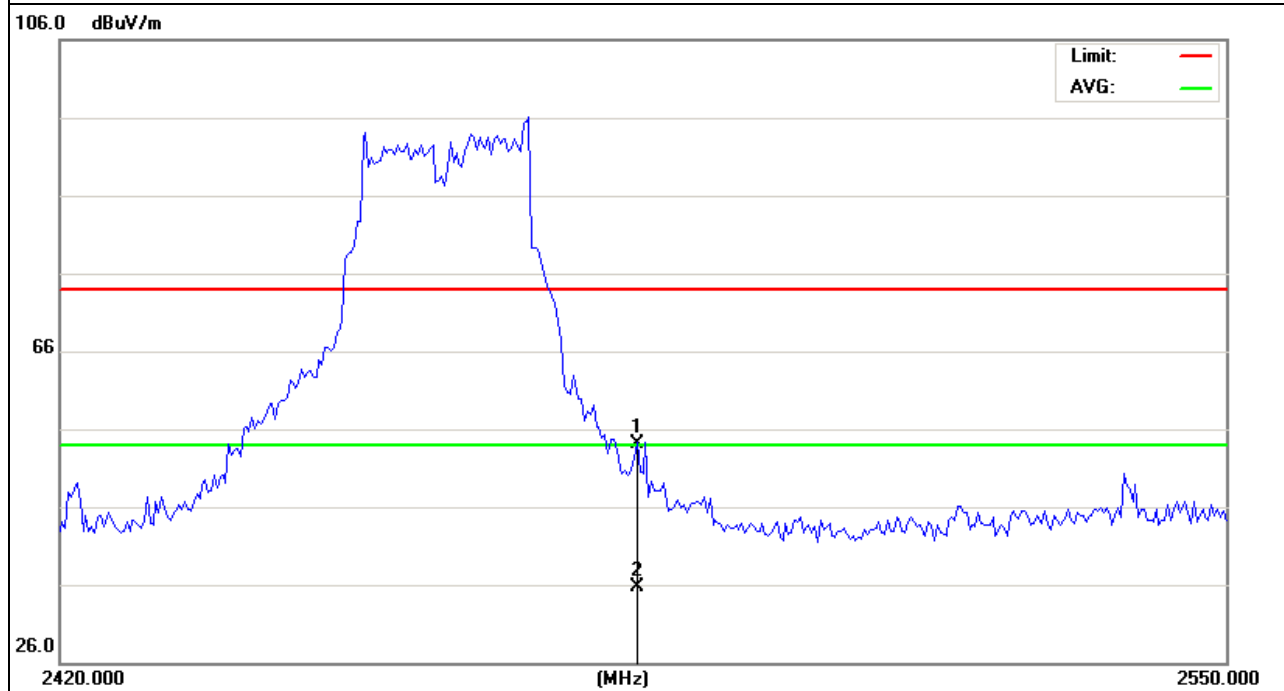
Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT :	WLAN 11n Dual Band module	Model Name :	WL-6210-V3
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V
Test Mode :	CH11(802.11N Mode)/20MHz	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.5	71.55	-17.35	54.2	74	-19.8	peak
2483.5	53.05	-17.35	35.7	54	-18.3	AVG

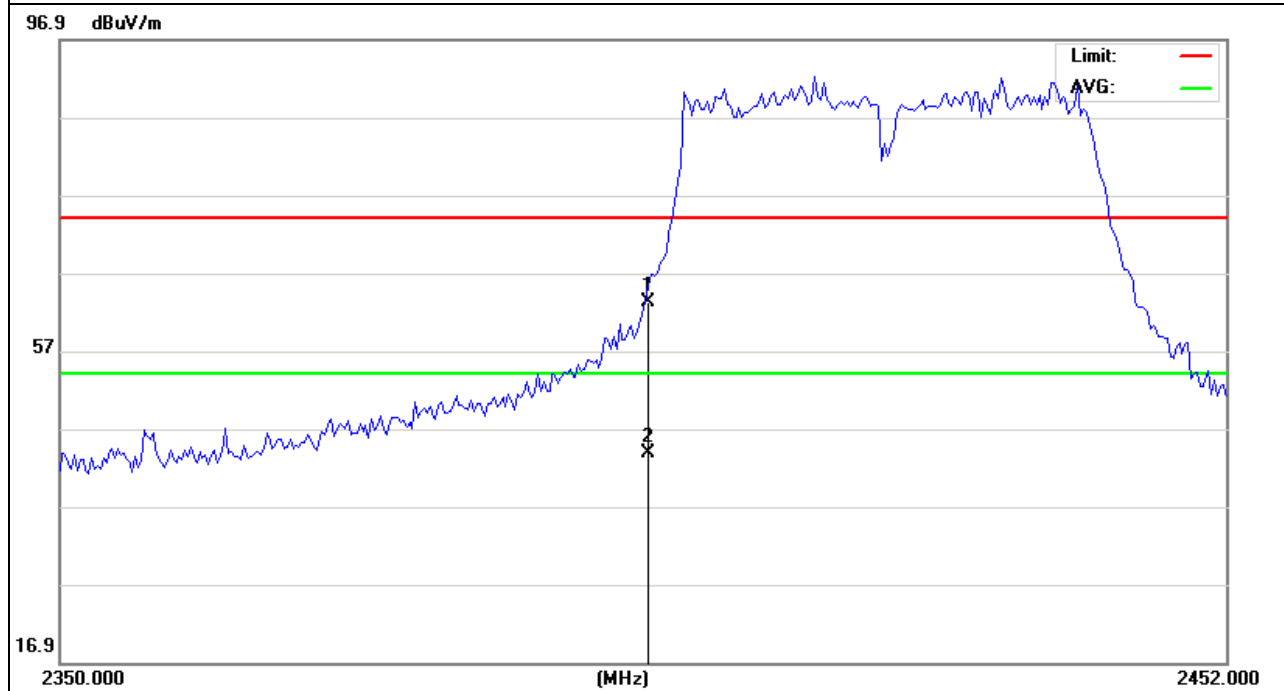
Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT :	WLAN 11n Dual Band module	Model Name :	WL-6210-V3
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V
Test Mode :	CH3(802.11n Mode)/40M	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2400.00	80.76	-17.46	63.3	74	-10.7	peak
2400.00	61.23	-17.46	43.77	54	-10.23	AVG

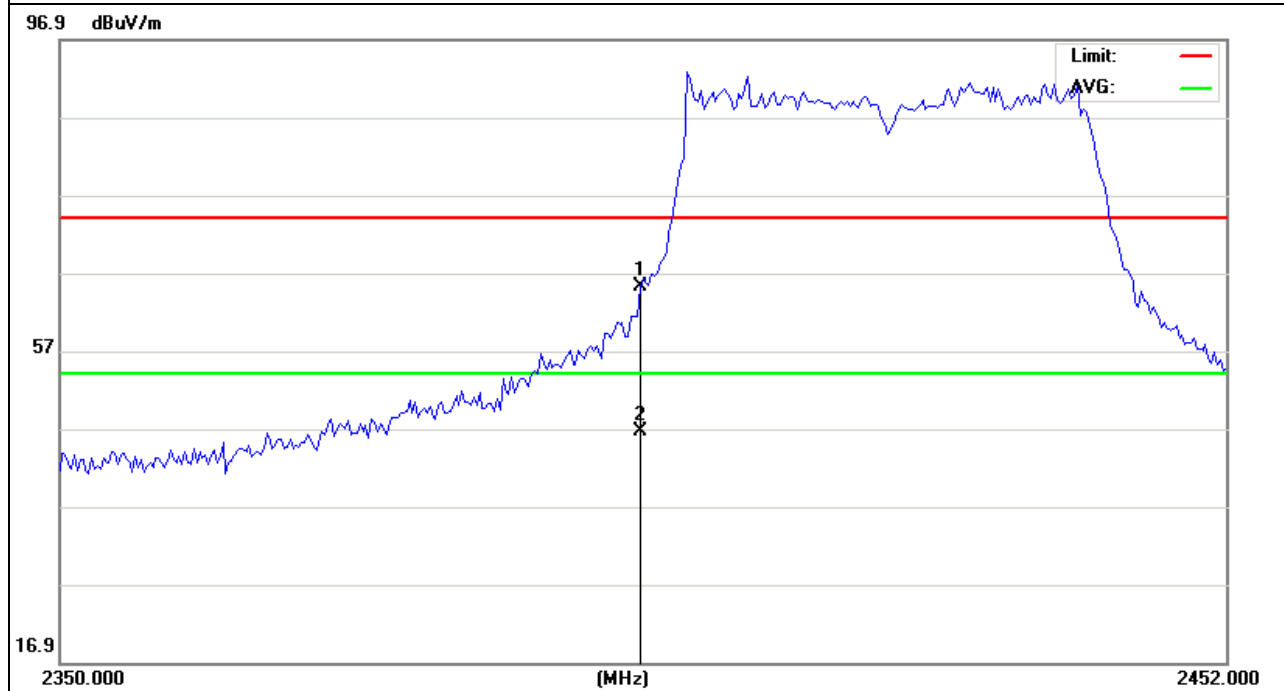
Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT :	WLAN 11n Dual Band module	Model Name :	WL-6210-V3
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V
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
2400.00	82.76	-17.46	65.3	74	-8.7	peak
2400.00	64.13	-17.46	46.67	54	-7.33	AVG

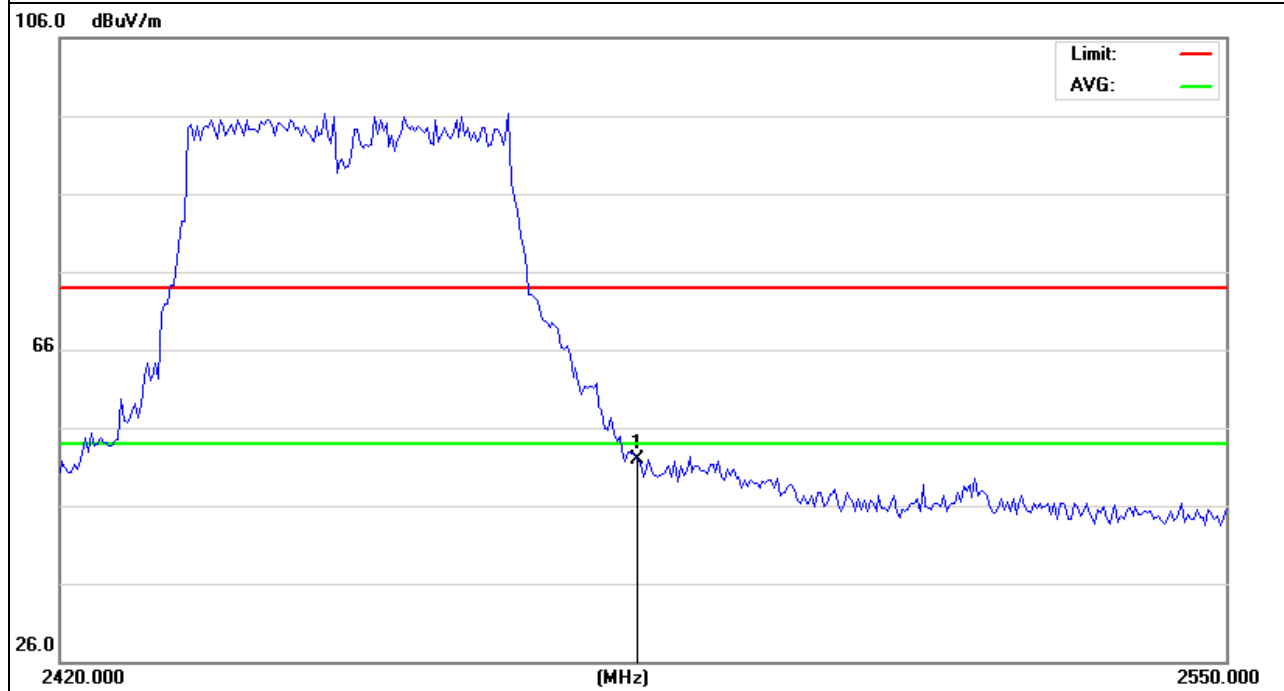
Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT :	WLAN 11n Dual Band module	Model Name :	WL-6210-V3
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V
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	69.35	-17.35	52	74	-22	peak

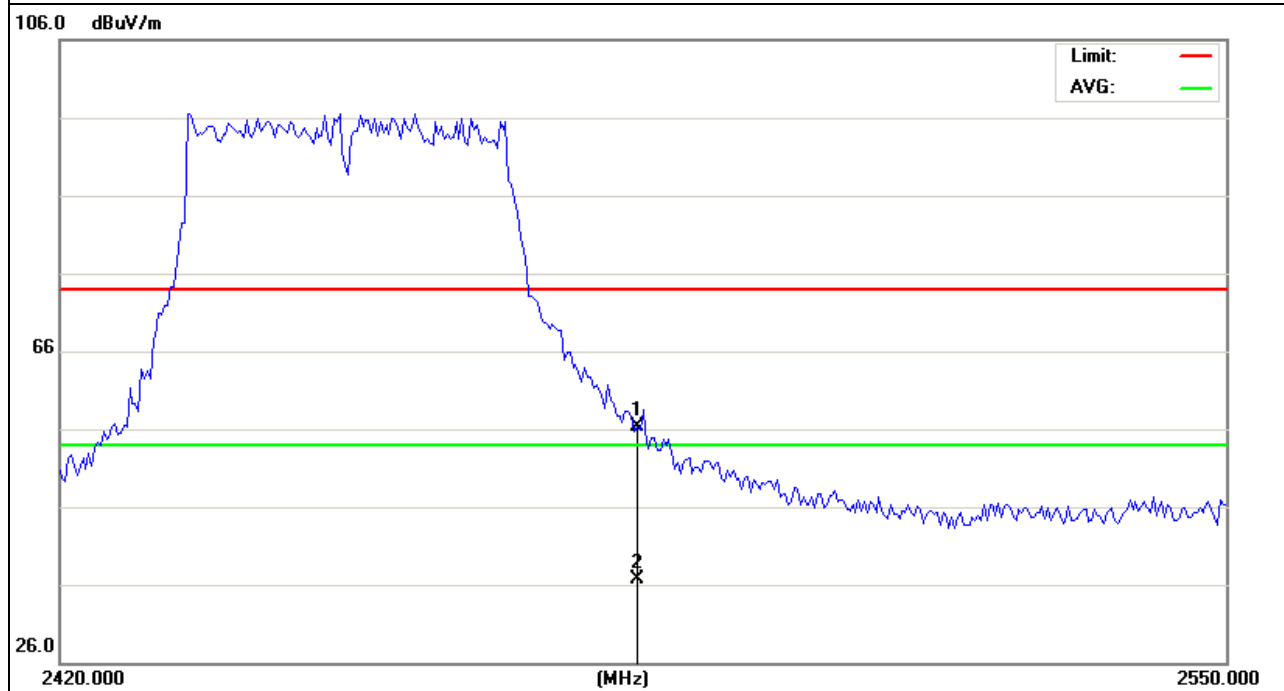
Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT :	WLAN 11n Dual Band module	Model Name :	WL-6210-V3
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V
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	73.65	-17.35	56.3	74	-17.7	peak
2483.5	54.02	-17.35	36.67	54	-17.33	AVG

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



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

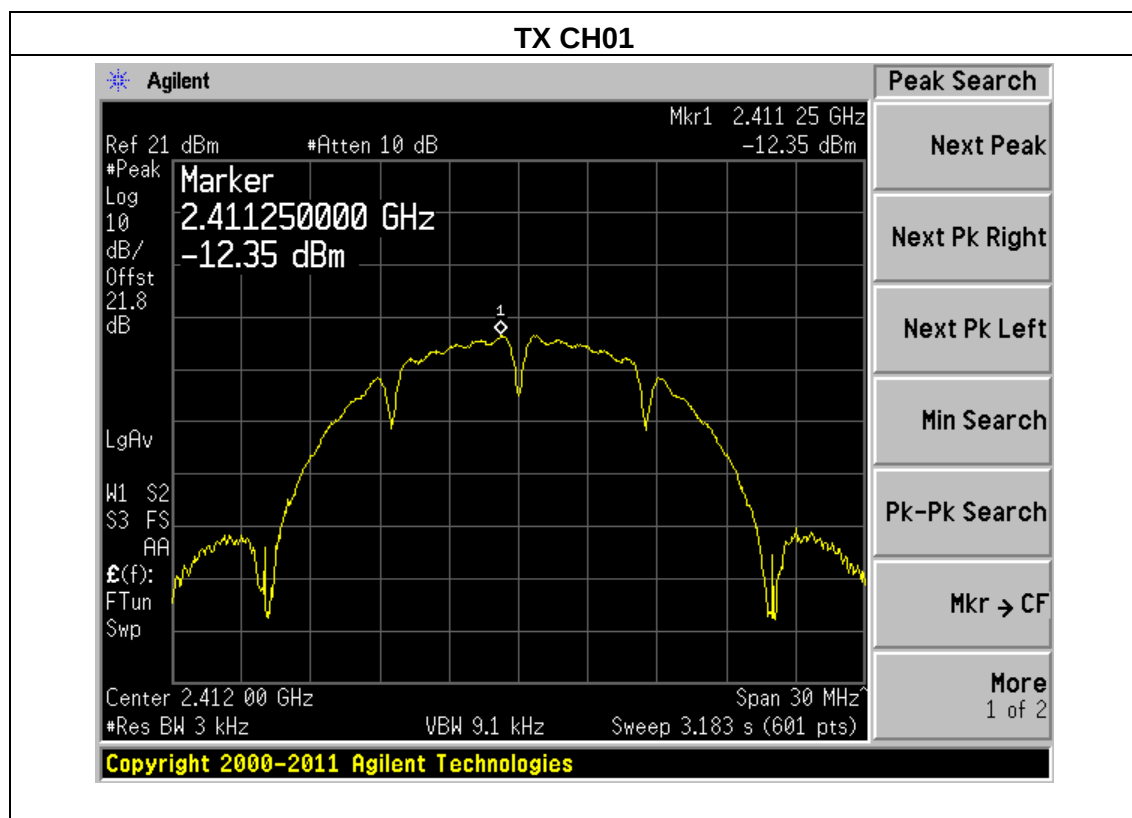
The EUT tested system was configured as the statements of 2.1 Unless otherwise a special operating condition is specified in the follows during the testing.

4.1.5 TEST RESULTS

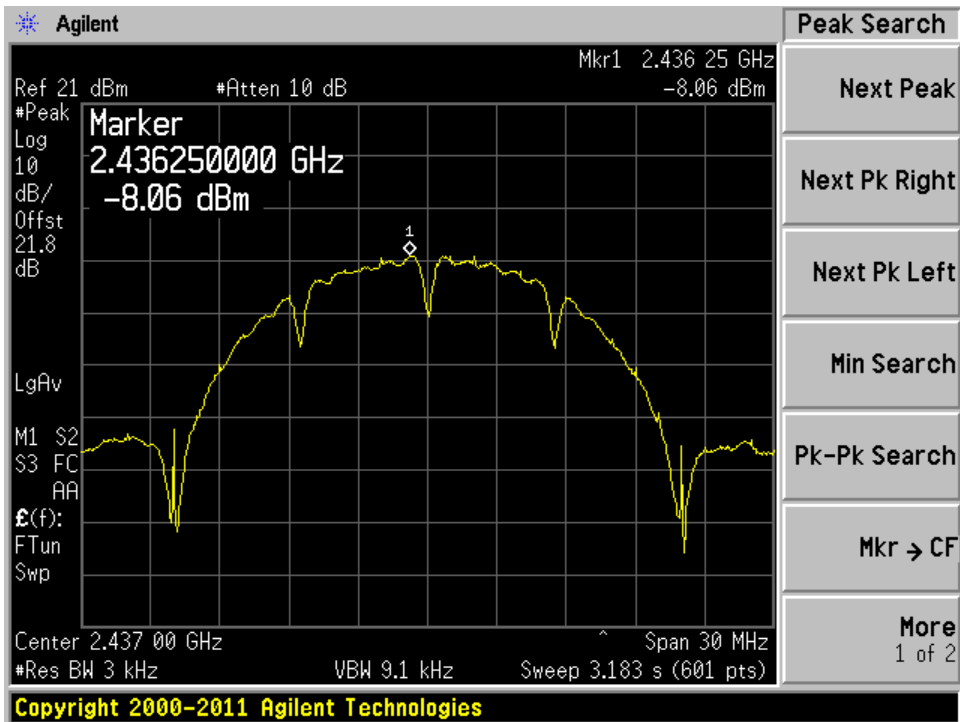
EUT :	WLAN 11n Dual Band module	Model Name :	WL-6210-V3
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1015 hPa	Test Voltage :	DC 5V
Test Mode :	TX b Mode /CH01, CH06, CH11		

Frequency	Power Density A (dBm)	Power Density B (dBm)	Limit (dBm)	Result
2412 MHz	-12.35	-13.21	8	PASS
2437 MHz	-8.06	-9.24	8	PASS
2462 MHz	-11.20	-12.66	8	PASS

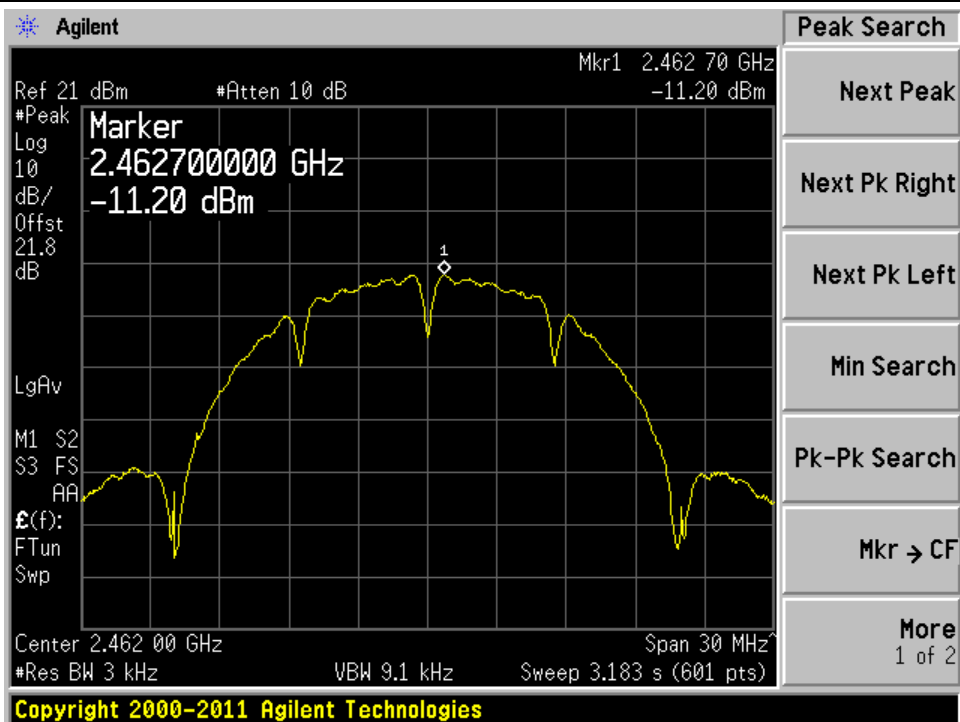
NOTE: A(B) Represent the value of antenna A and B, The worst data is A Antenna a ,only shown Antenna A Plot.



TX CH06



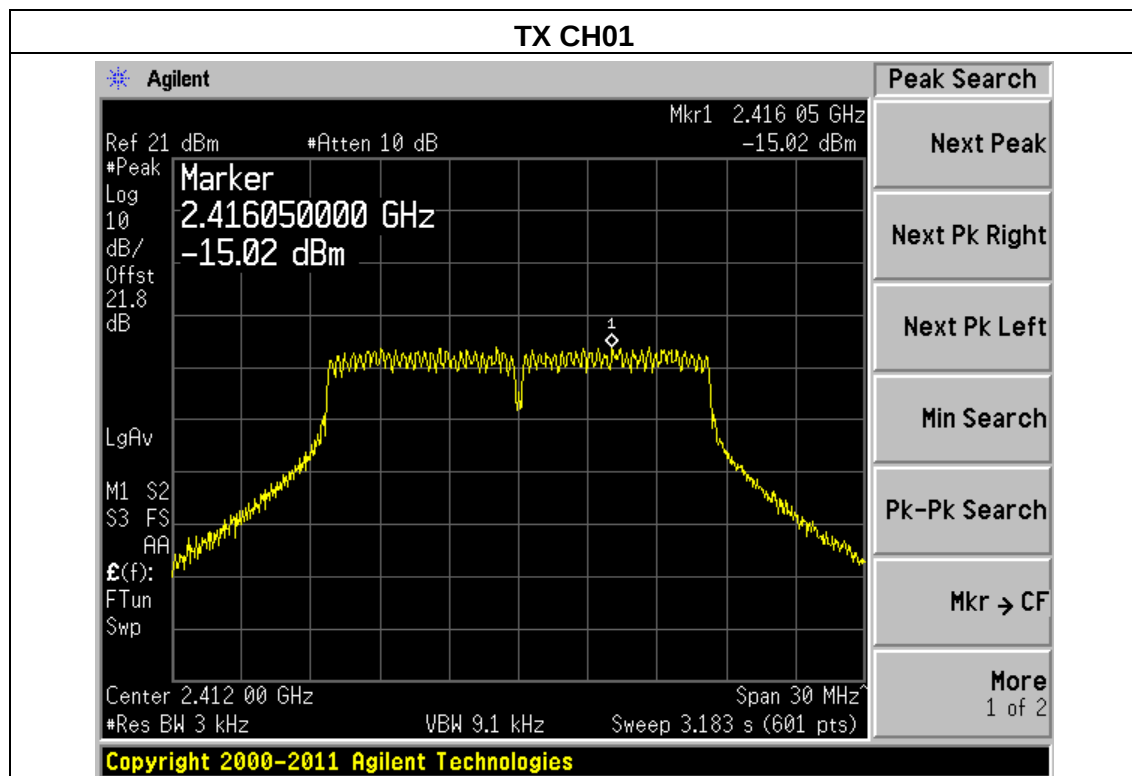
TX CH11

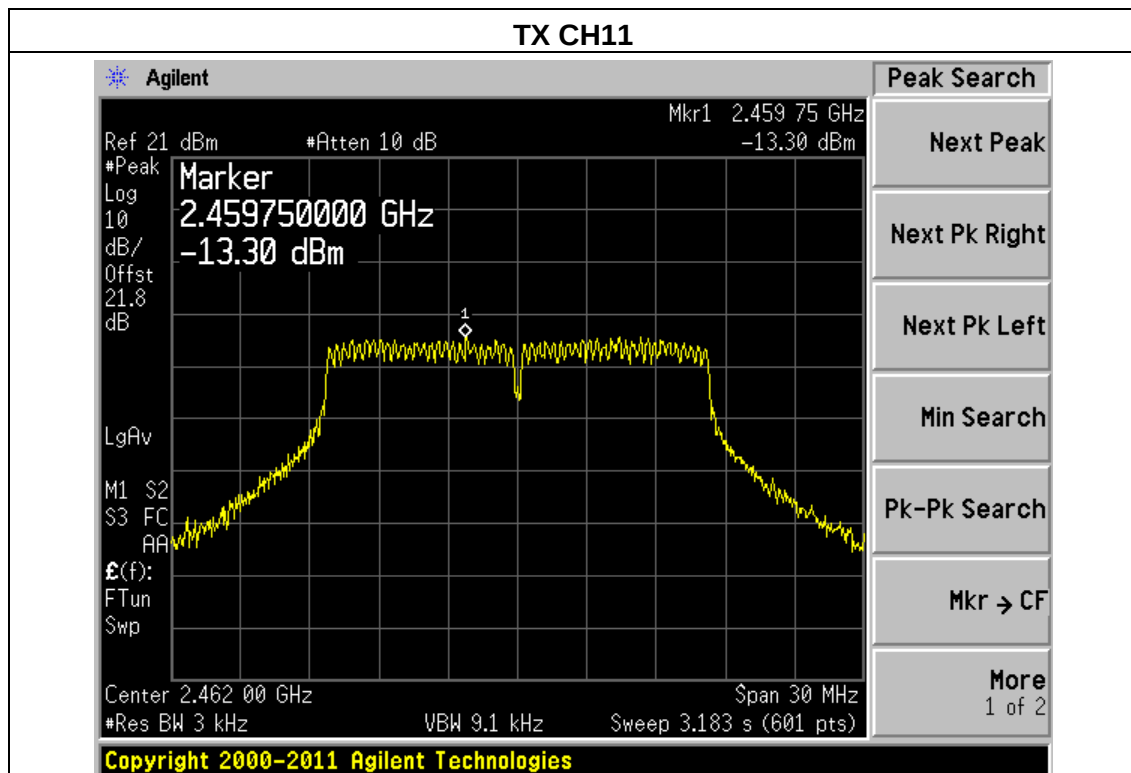
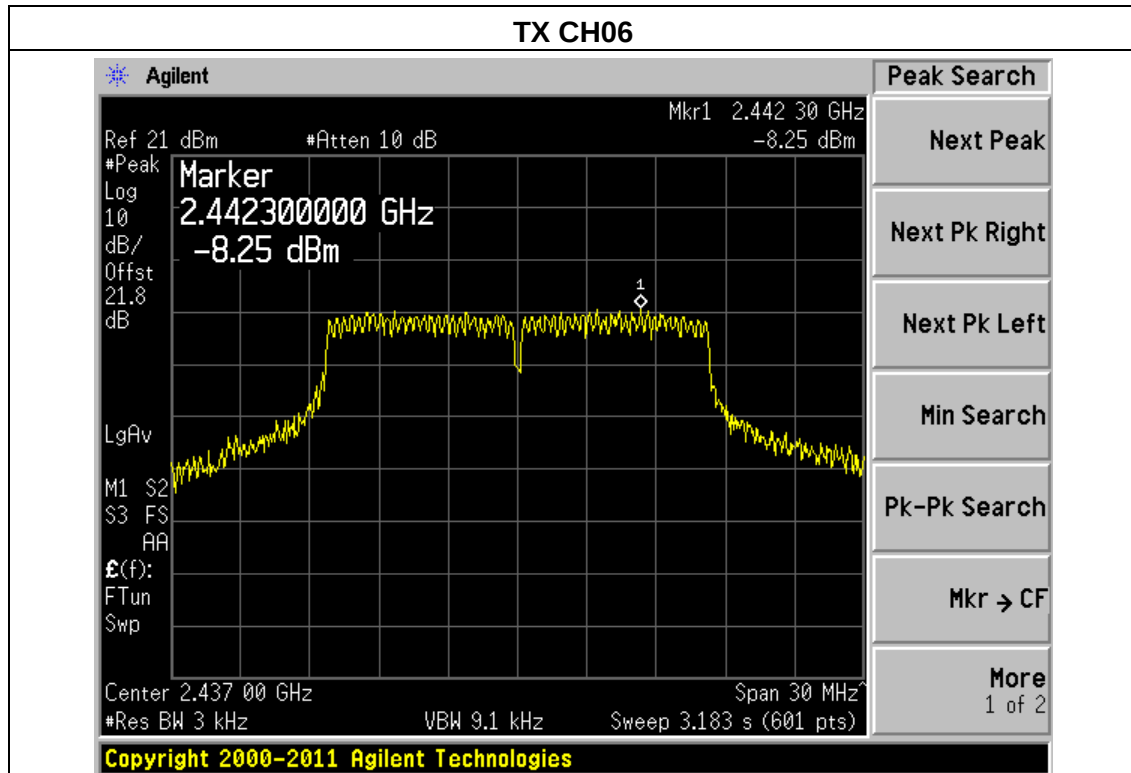


EUT :	WLAN 11n Dual Band module	Model Name :	WL-6210-V3
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1015 hPa	Test Voltage :	DC 5V
Test Mode :	TX g Mode /CH01, CH06, CH11		

Frequency	Power Density A (dBm)	Power Density B (dBm)	Limit (dBm)	Result
2412 MHz	-15.02	-16.59	8	PASS
2437 MHz	-8.25	-10.12	8	PASS
2462 MHz	-13.30	-15.67	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.



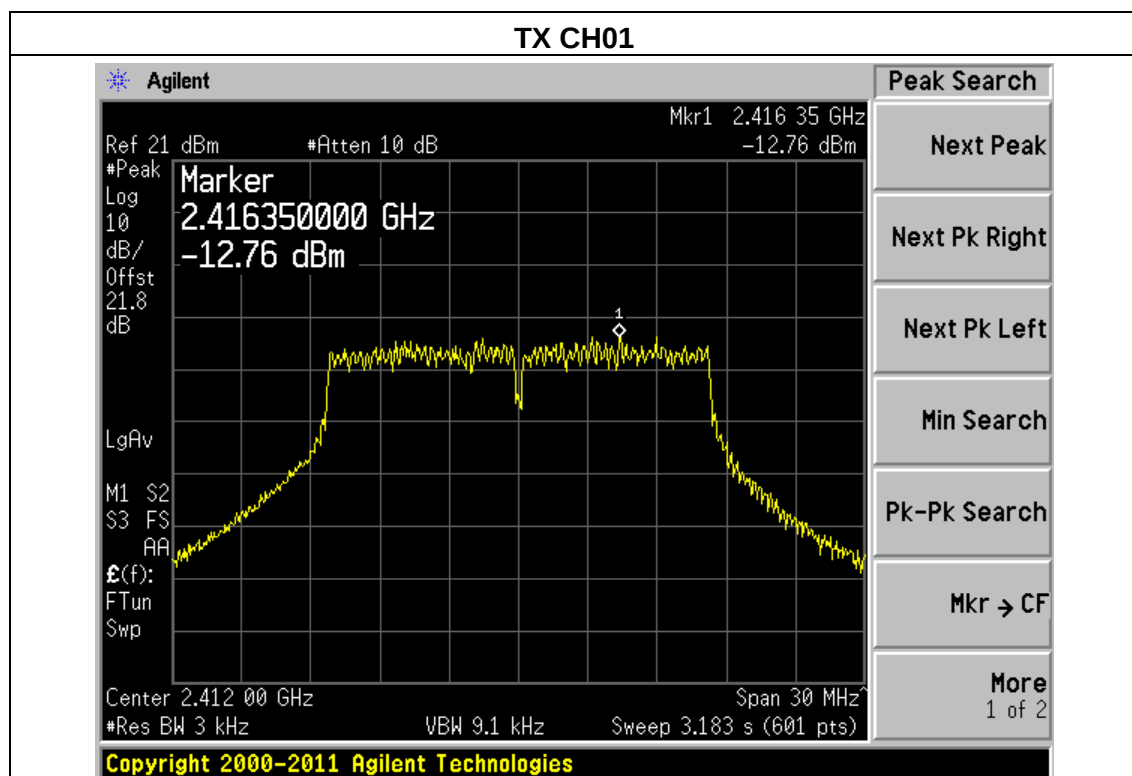


EUT :	WLAN 11n Dual Band module	Model Name :	WL-6210-V3
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1015 hPa	Test Voltage :	DC 5V
Test Mode :	TX n Mode(20M) /CH01, CH06, CH11		

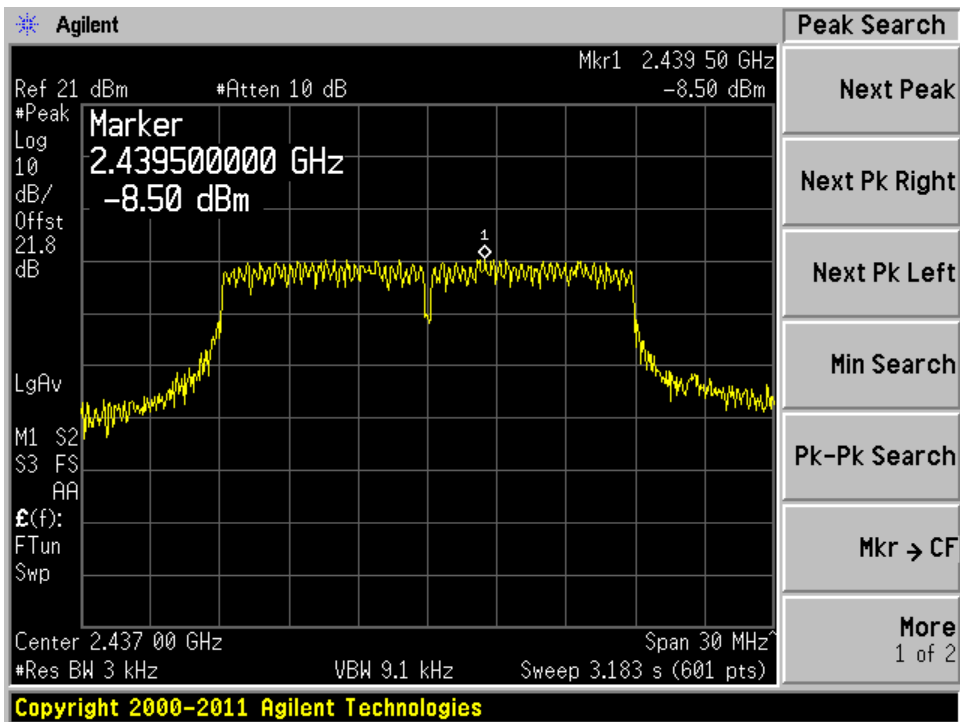
Frequency	Power Density A (dBm)	Power Density B (dBm)	Power Density (dBm)	Limit (dBm)	Result
2412 MHz	-12.76	-13.12	-9.92	8	PASS
2437 MHz	-8.50	-12.14	-6.93	8	PASS
2462 MHz	-14.65	-15.43	-12.01	8	PASS

Note:

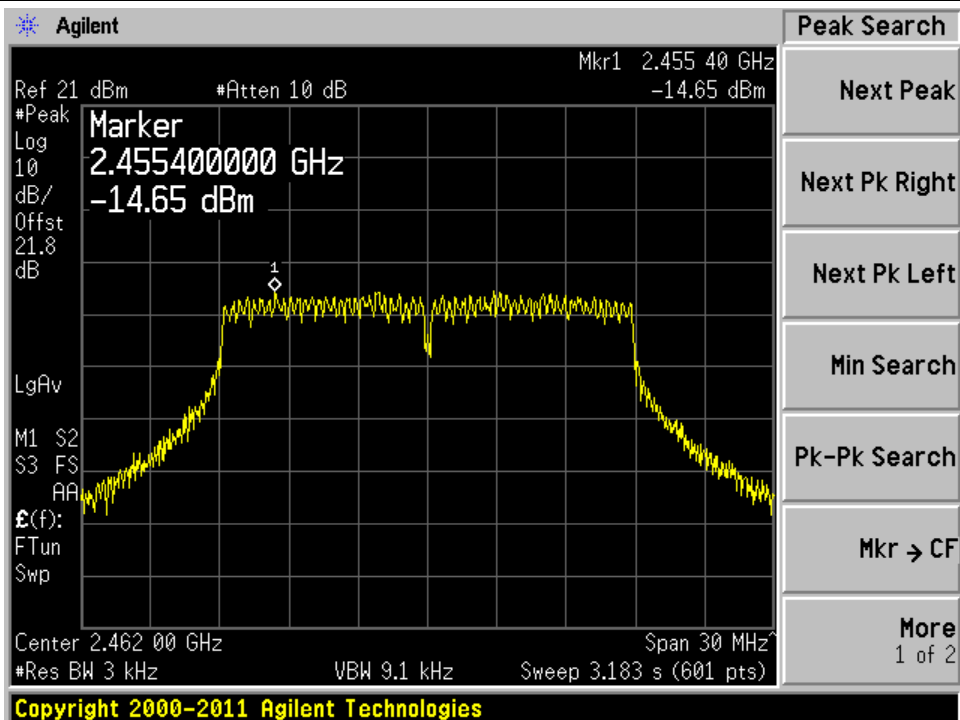
A(B) Represent the value of antennaA and B, The worst data is A Antenna a ,only shown Antenna A Plot.



TX CH06

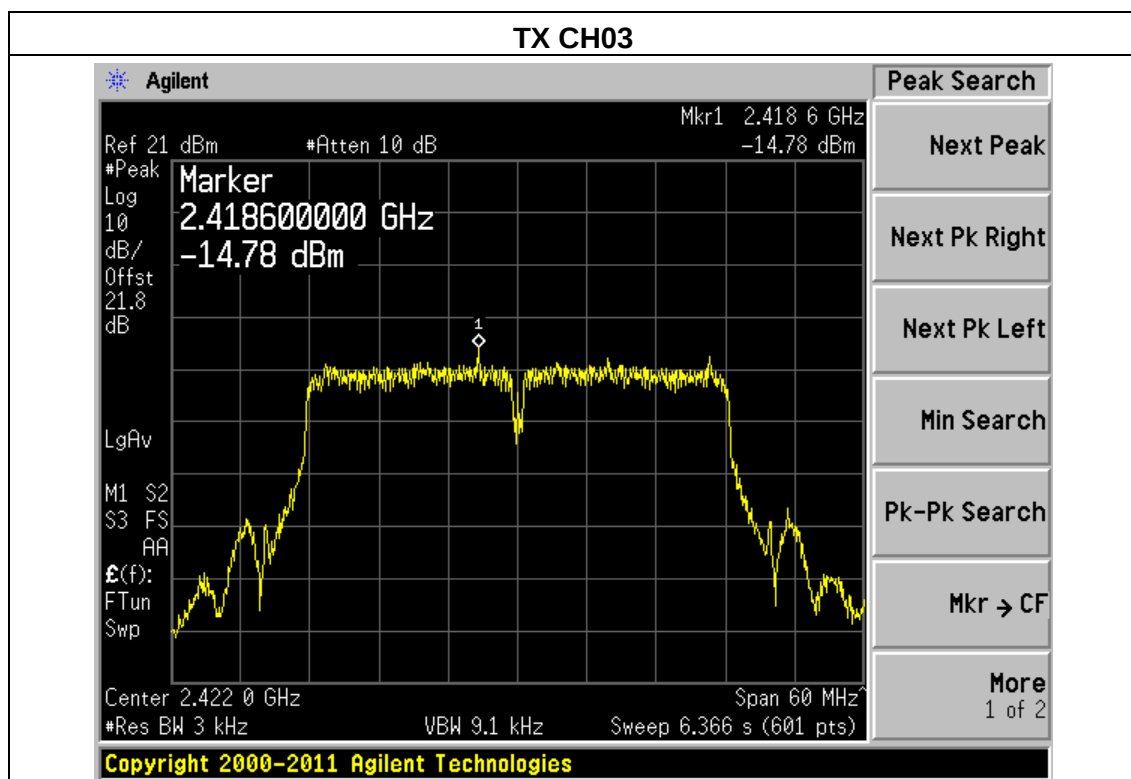


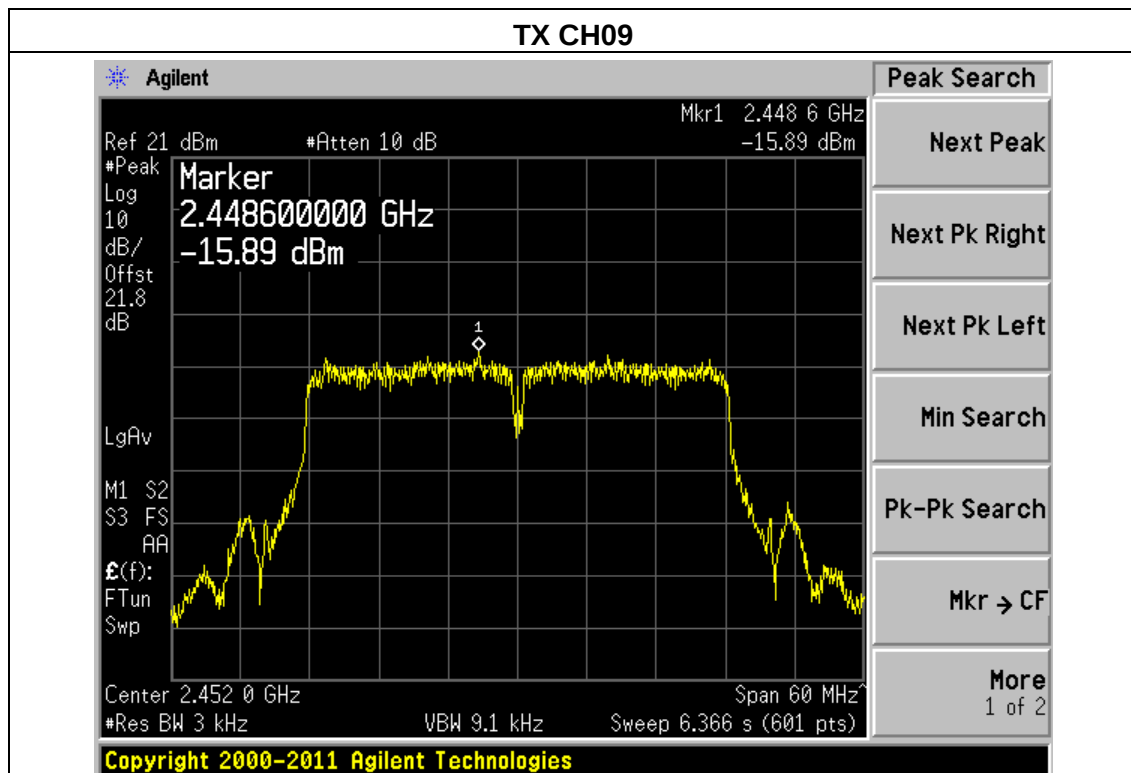
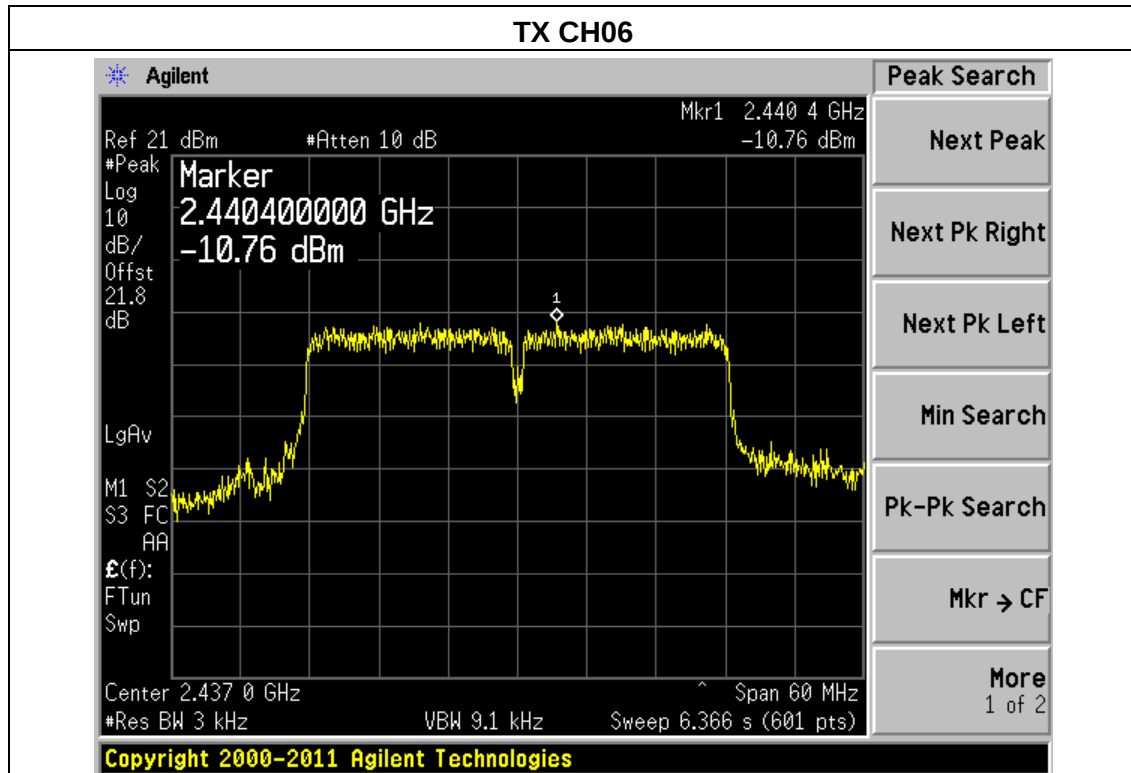
TX CH11



EUT :	WLAN 11n Dual Band module	Model Name :	WL-6210-V3
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1015 hPa	Test Voltage :	DC 5V
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	-14.78	-15.07	-11.91	8	PASS
2437 MHz	-10.76	-11.11	-7.92	8	PASS
2452 MHz	-15.89	-16.12	-12.99	8	PASS



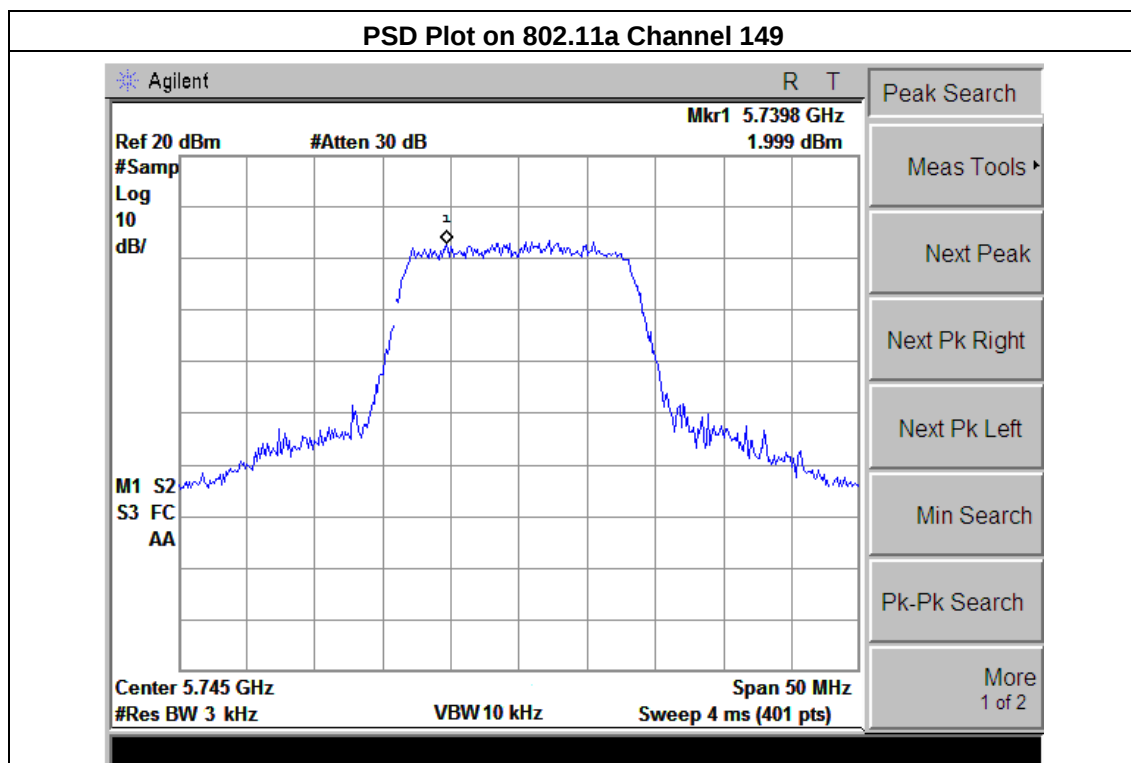


EUT :	WLAN 11n Dual Band module	Model Name :	WL-6210-V3
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1015 hPa	Test Voltage :	DC 5V from PC DC 5V
Test Mode :	TX a Mode		

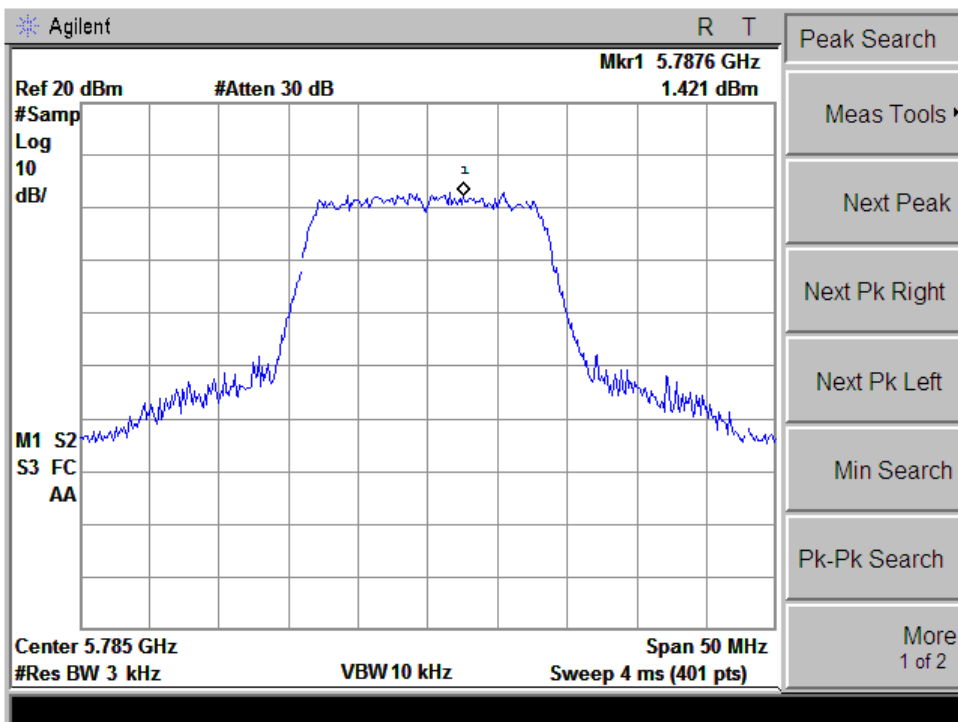
Channel	Frequency	802.11a Measured PSD (dBm)/A	802.11a Measured PSD (dBm)/B	802.11a Measured PSD	Limit (dBm)	Result
149	5745	1.999	-1.102	3.15	8	PASS
157	5785	1.421	-1.312	3.28	8	PASS
164	5825	0.911	-1.098	3.03	8	PASS

Note:

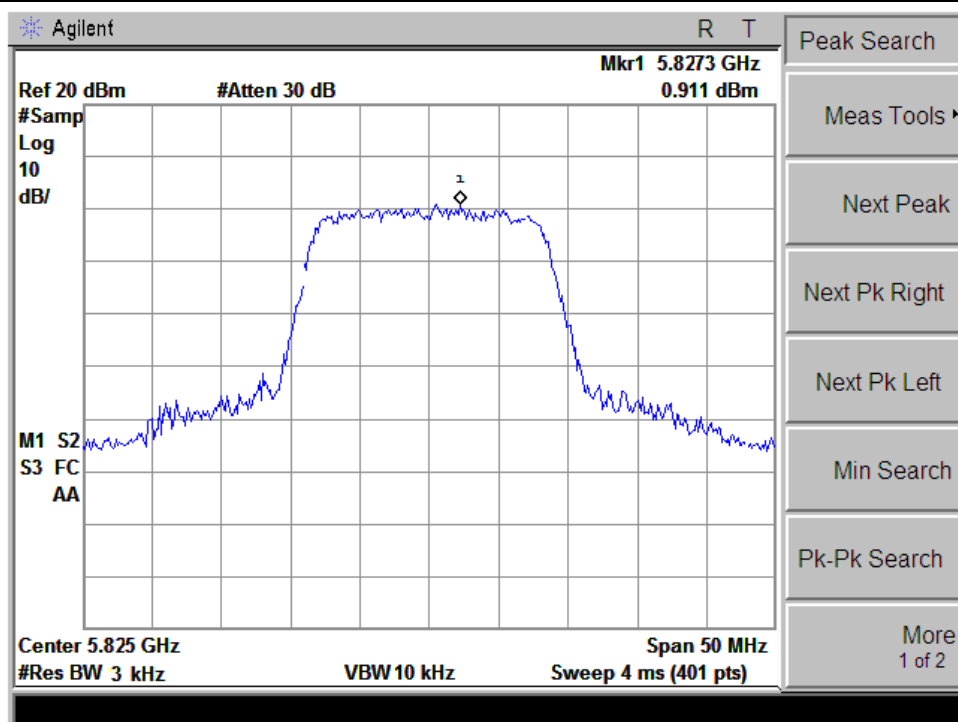
A(B) Represent the value of antennaA and B,The worst data is A Antenna a ,only shown Antenna A Plot.



PSD Plot on 802.11a Channel 157



PSD Plot on 802.11a Channel 161

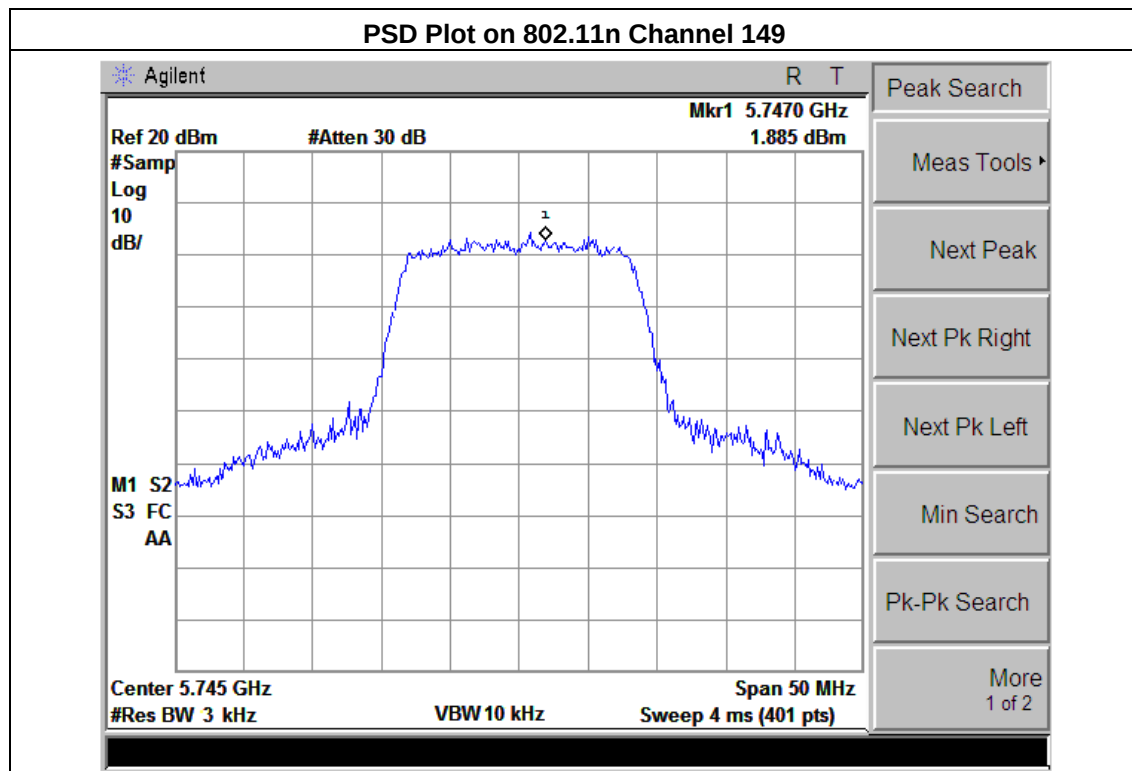


EUT :	WLAN 11n Dual Band module	Model Name :	WL-6210-V3
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1015 hPa	Test Voltage :	DC 5V from PC DC 5V
Test Mode :	TX n Mode(20)		

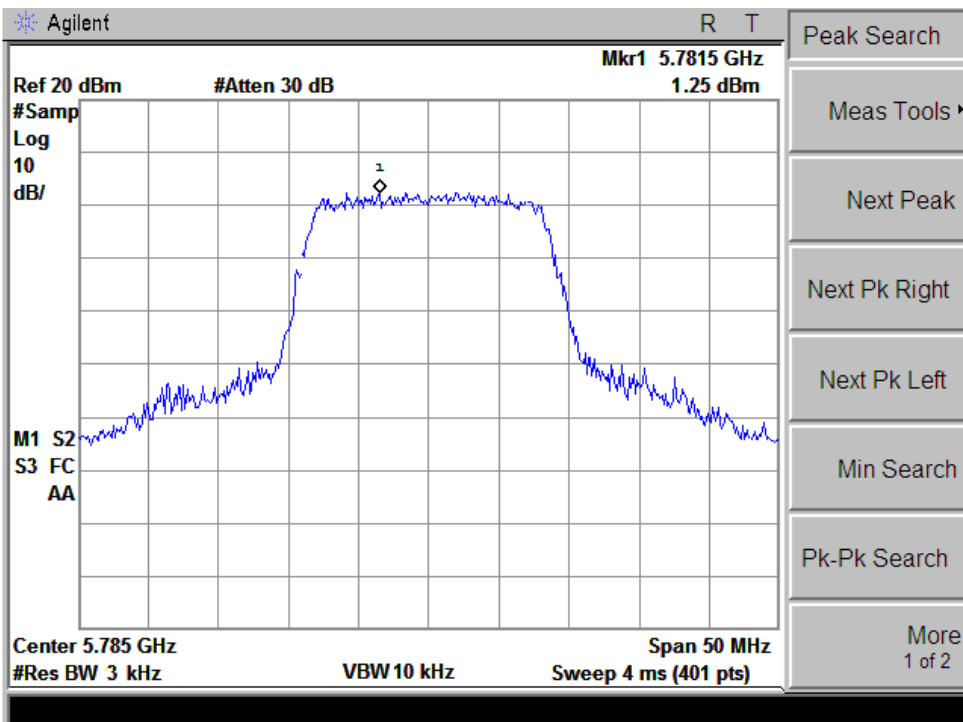
Channel	Frequency	802.11n Measured PSD (dBm)/A	802.11n Measured PSD (dBm)/B	802.11n Measured PSD	Limit (dBm)	Result
149	5745	2.885	-1.122	3.65	8	PASS
157	5785	2.250	-1.321	3.16	8	PASS
164	5825	-0.533	-1.129	2.19	8	PASS

Note:

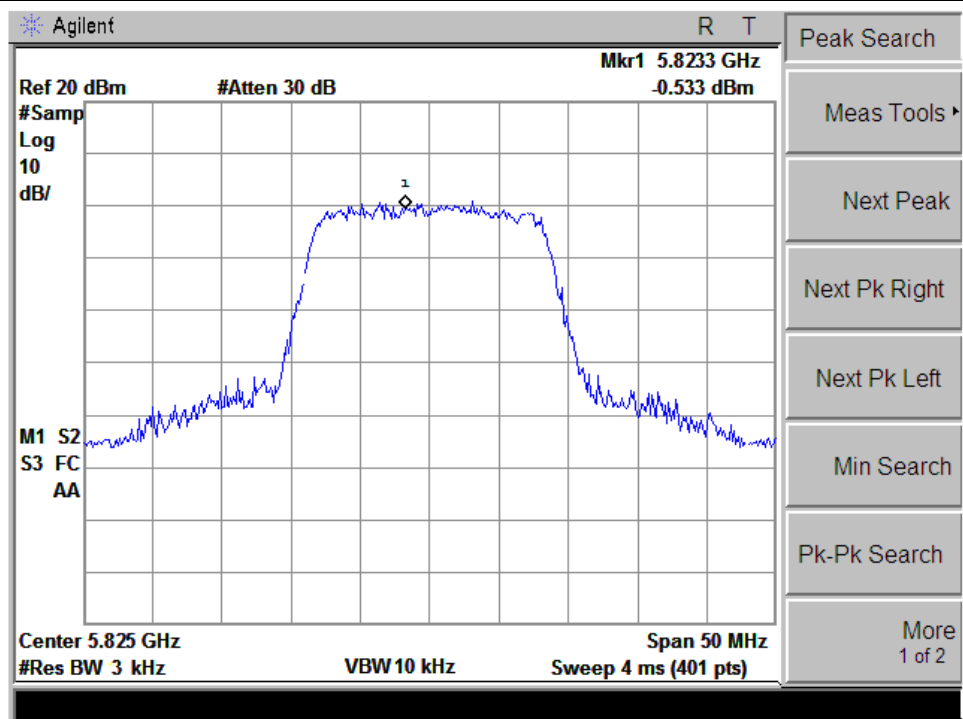
A(B) Represent the value of antennaA and B,The worst data is A Antenna a ,only shown Antenna A Plot.



PSD Plot on 802.11n Channel 157



PSD Plot on 802.11n Channel 161

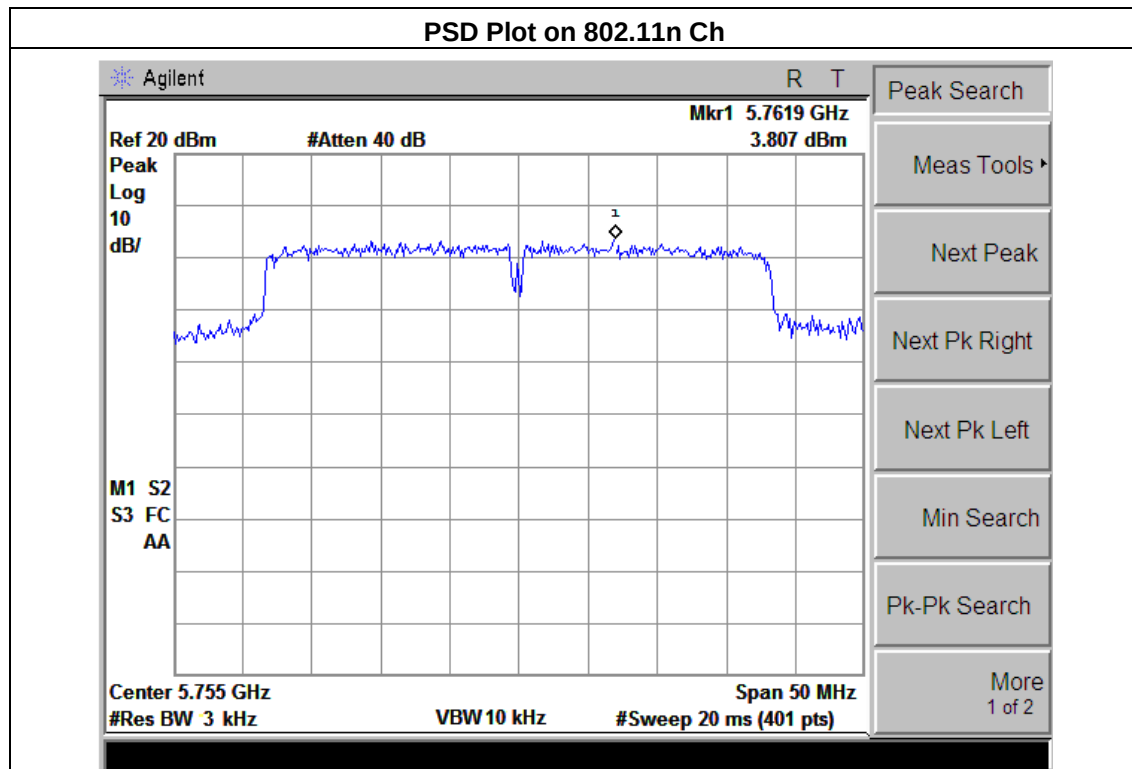


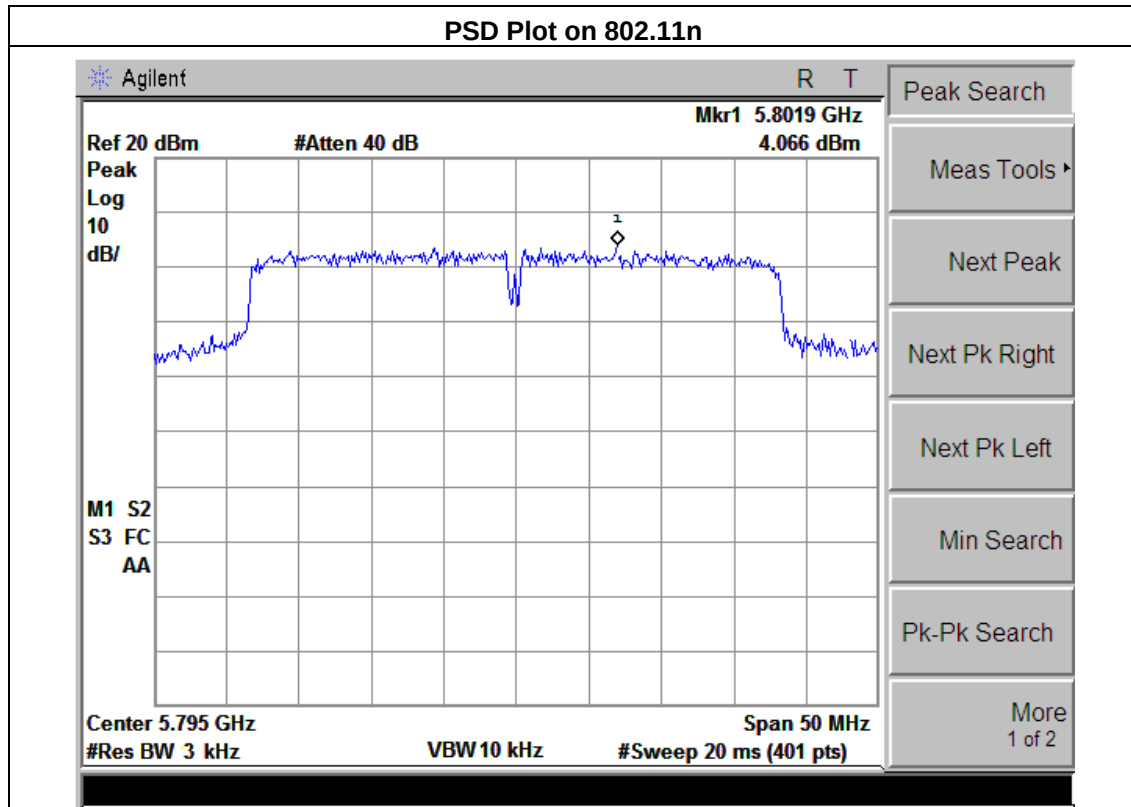
EUT :	WLAN 11n Dual Band module	Model Name :	WL-6210-V3
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1015 hPa	Test Voltage :	DC 5V from PC DC 5V
Test Mode :	TX n Mode(40)		

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

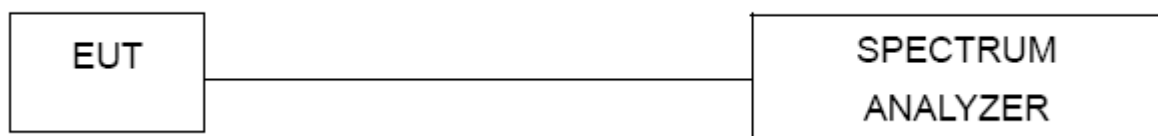
a.

1. Set resolution bandwidth (RBW) = 1-5% or DTS BW, not to exceed 100 kHz.
2. Set the video bandwidth (VBW) $\geq 3 \times \text{RBW}$.
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



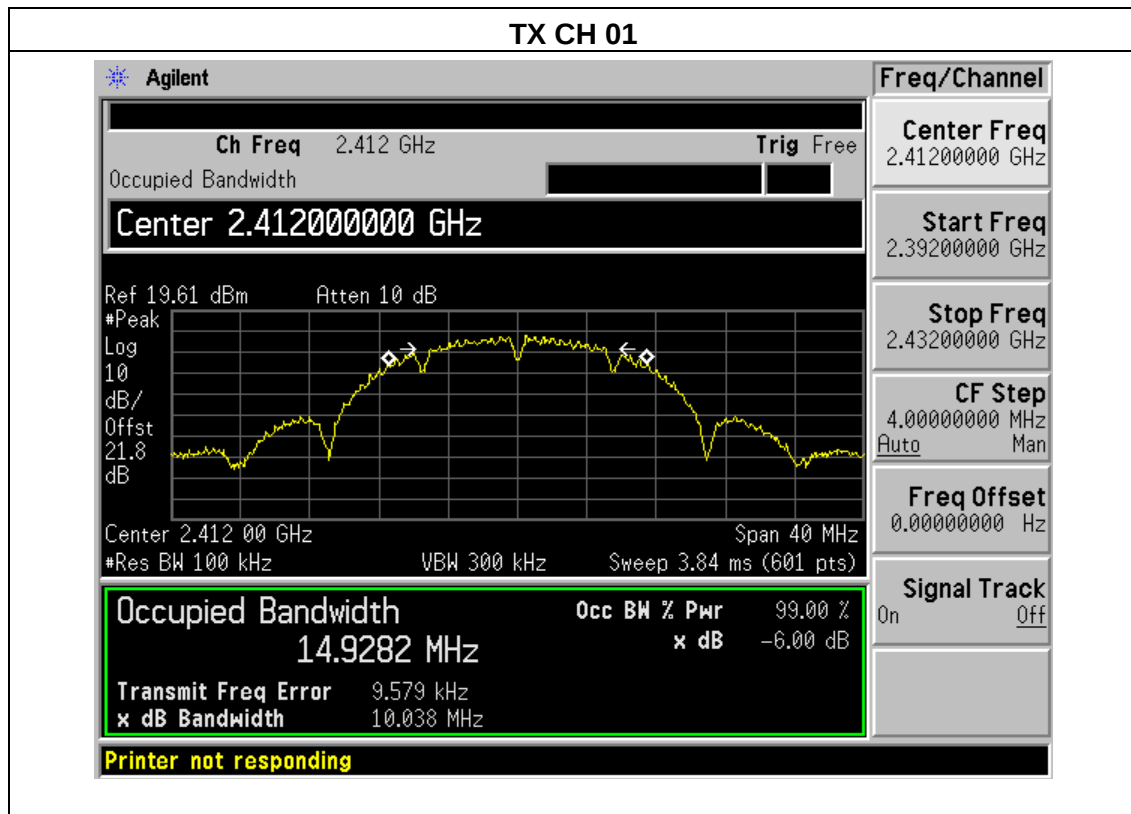
5.1.4 EUT OPERATION CONDITIONS

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.

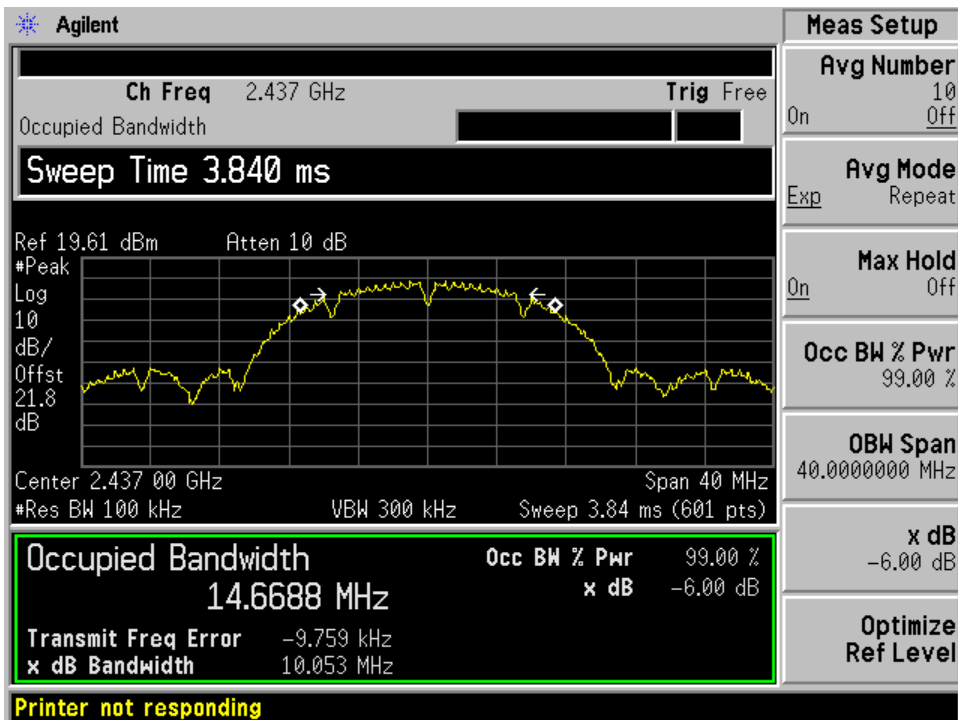
5.1.5 TEST RESULTS

EUT :	WLAN 11n Dual Band module	Model Name :	WL-6210-V3
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	DC 5V
Test Mode :	TX b Mode /CH01, CH06, CH11		

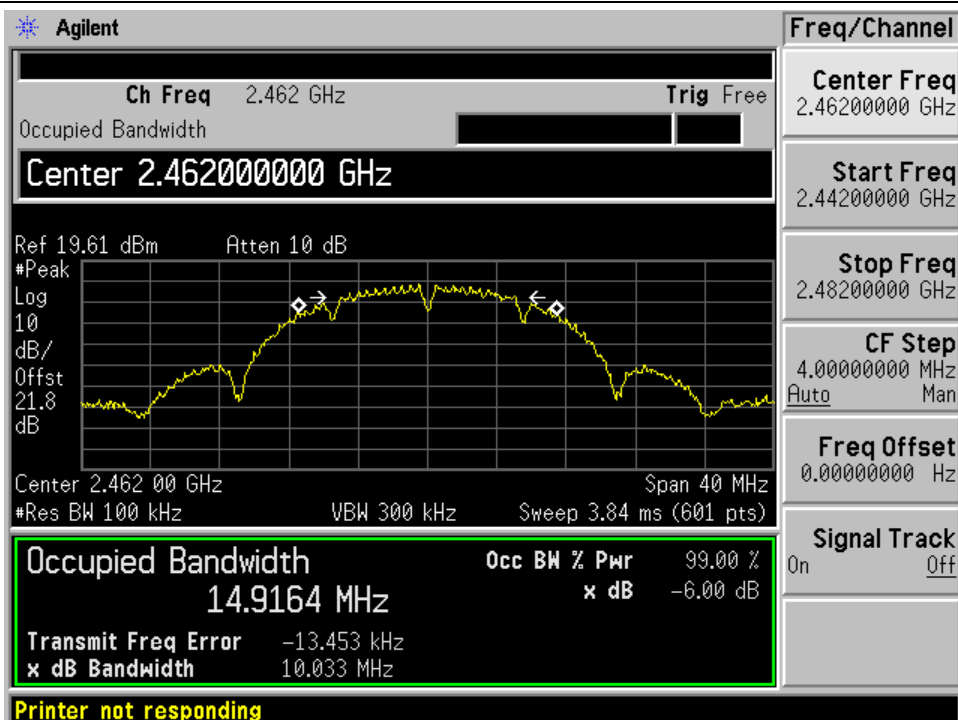
Frequency	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Channel Separation (MHz)	Result
2412 MHz	10.03	14.92	>=500KHz	PASS
2437 MHz	10.05	14.66	>=500KHz	PASS
2462 MHz	10.03	14.91	>=500KHz	PASS



TX CH 06

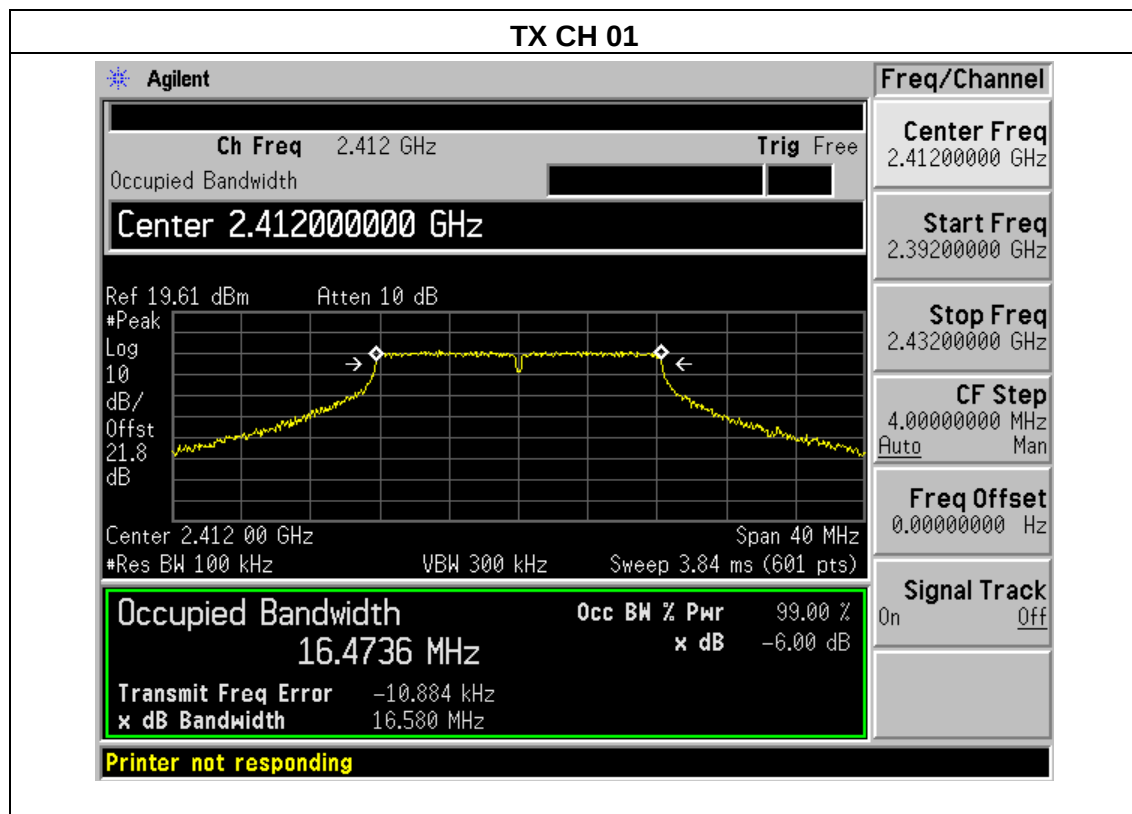


TX CH 11

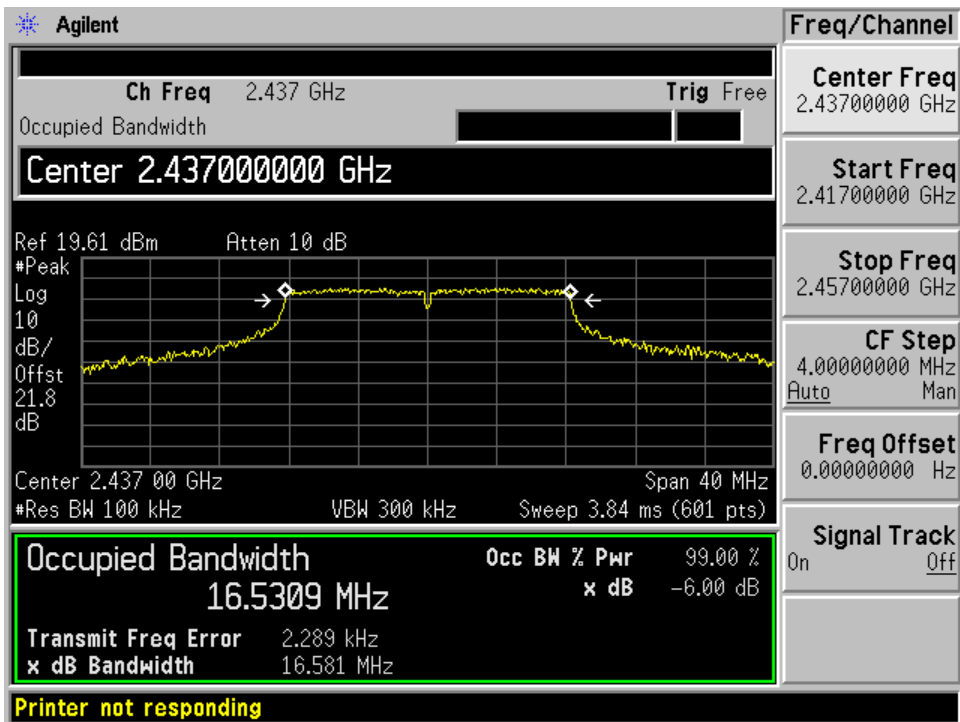


EUT :	WLAN 11n Dual Band module	Model Name :	WL-6210-V3
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	DC 5V
Test Mode :	TX g Mode /CH01, CH06, CH11		

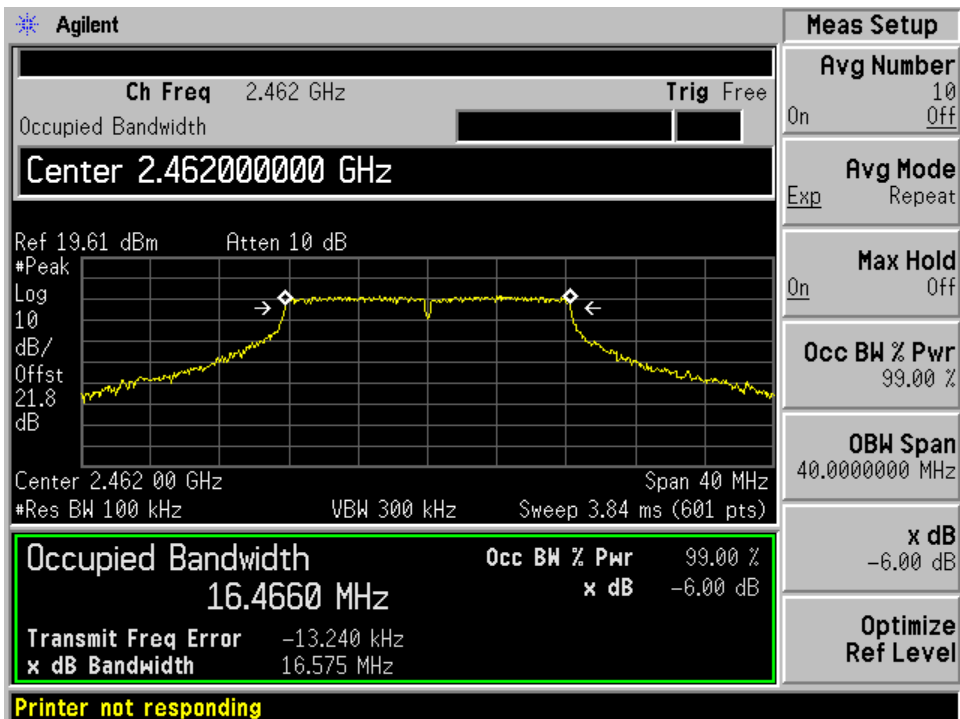
Frequency	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Channel Separation (MHz)	Result
2412 MHz	16.50	16.47	>=500KHz	PASS
2437 MHz	16.50	16.53	>=500KHz	PASS
2462 MHz	16.57	16.46	>=500KHz	PASS



TX CH 06

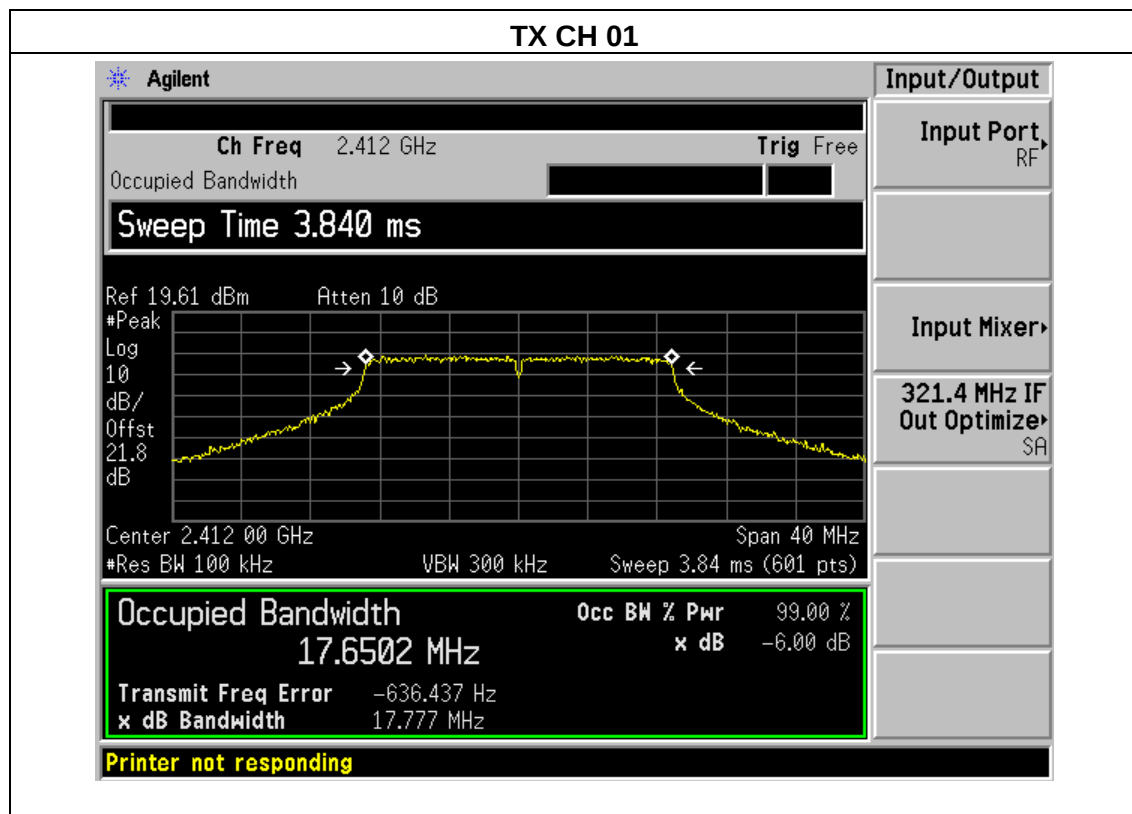


TX CH 11

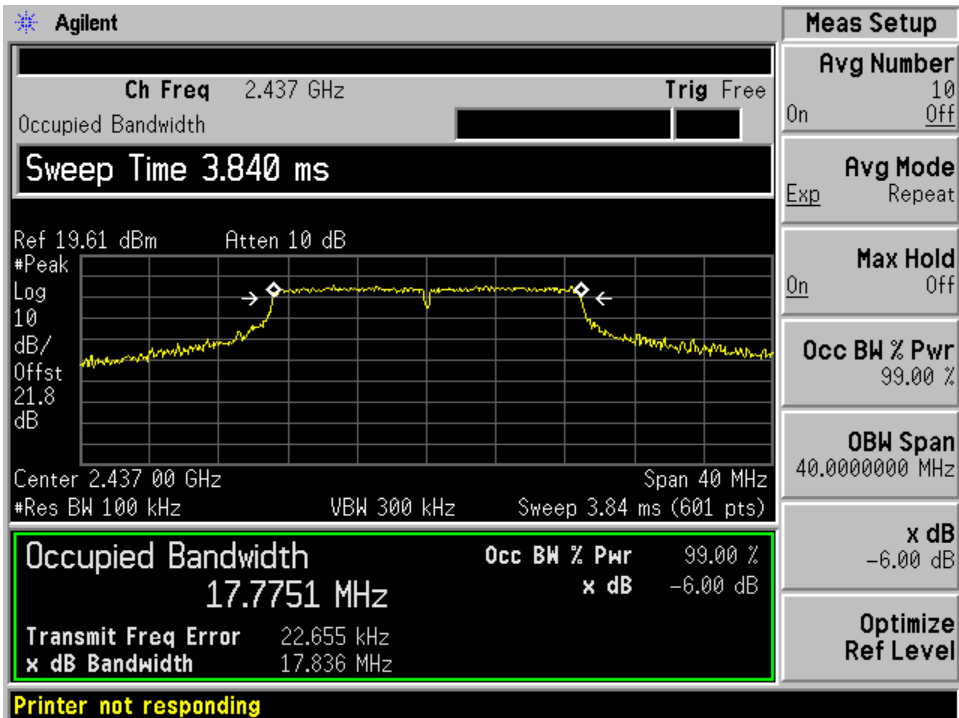


EUT :	WLAN 11n Dual Band module	Model Name :	WL-6210-V3
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	DC 5V
Test Mode :	TX n Mode(20M) /CH01, CH06, CH11		

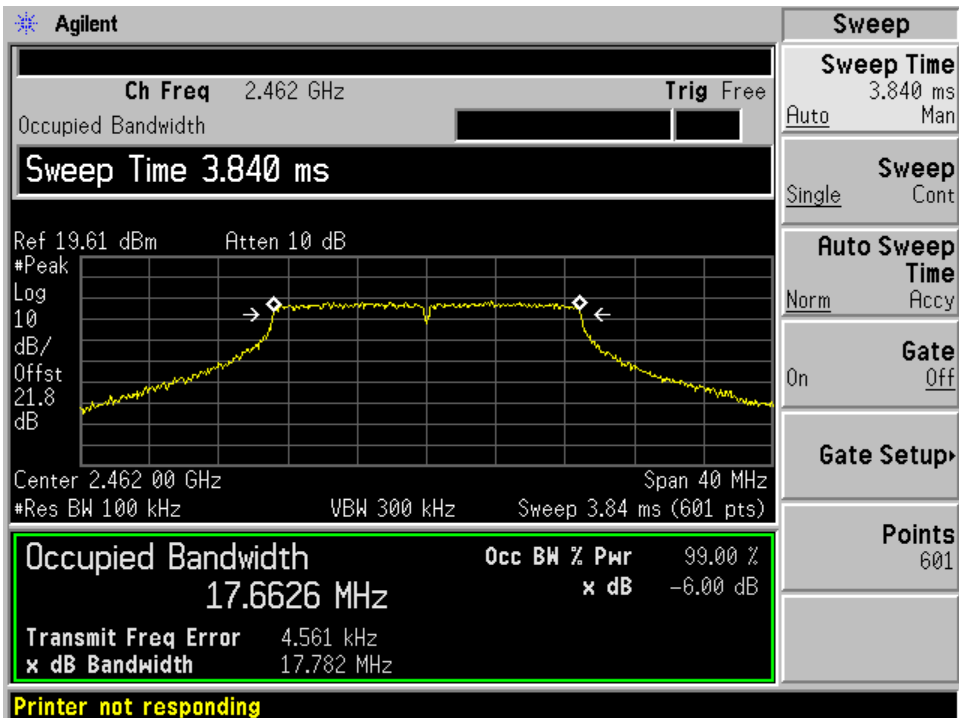
Frequency	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Channel Separation (MHz)	Result
2412 MHz	17.77	17.65	>=500KHz	PASS
2437 MHz	17.83	17.77	>=500KHz	PASS
2462 MHz	17.78	17.66	>=500KHz	PASS



TX CH 06

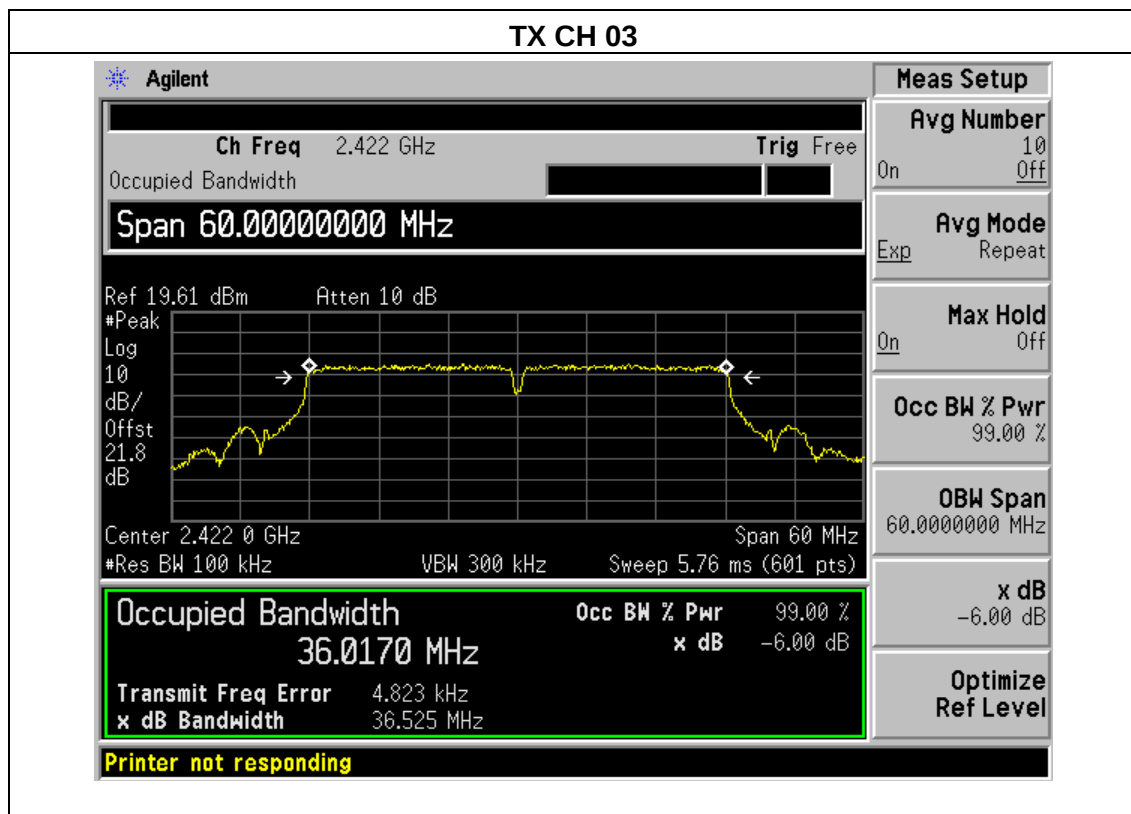


TX CH 11

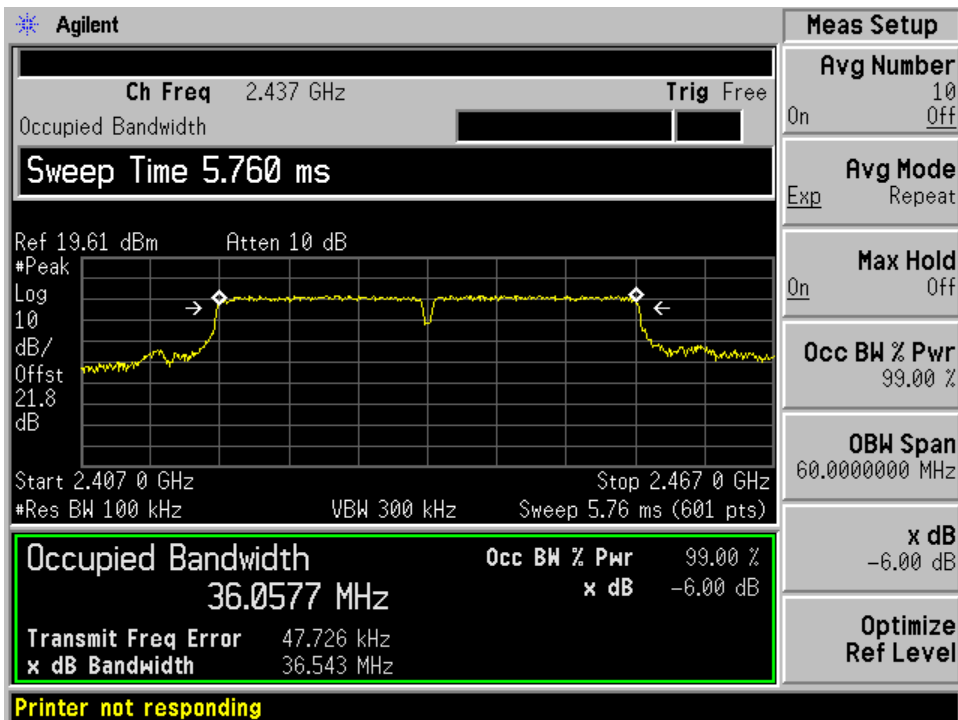


EUT :	WLAN 11n Dual Band module	Model Name :	WL-6210-V3
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	DC 5V
Test Mode :	TX n Mode(40M) /CH03, CH06, CH09		

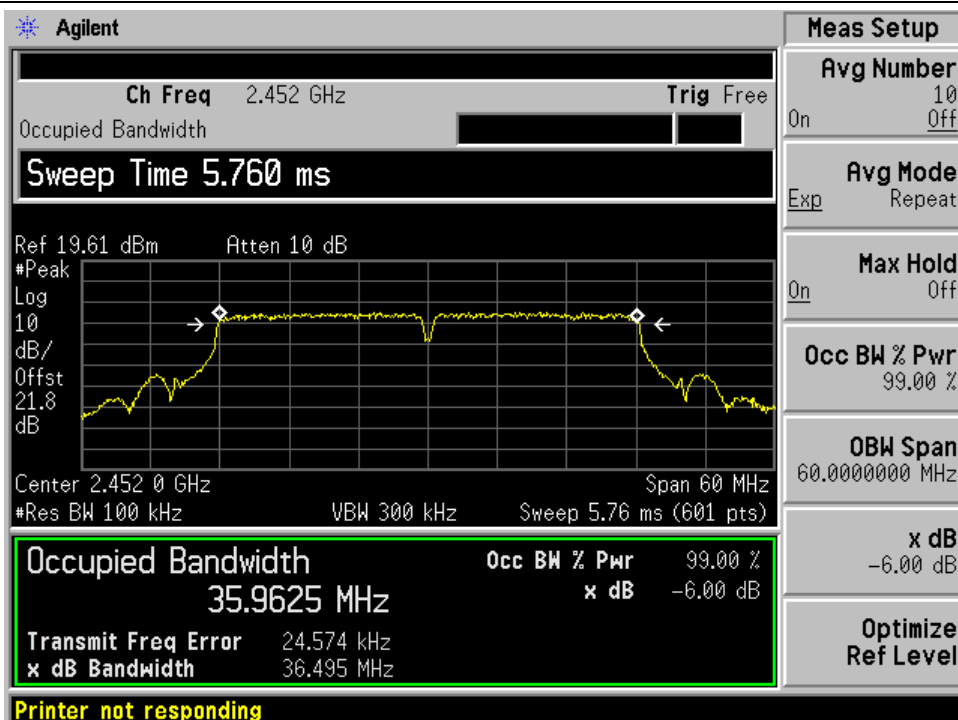
Frequency	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Channel Separation (MHz)	Result
2422 MHz	36.52	36.01	>=500KHz	PASS
2437 MHz	36.54	36.05	>=500KHz	PASS
2452 MHz	36.49	35.96	>=500KHz	PASS



TX CH 06

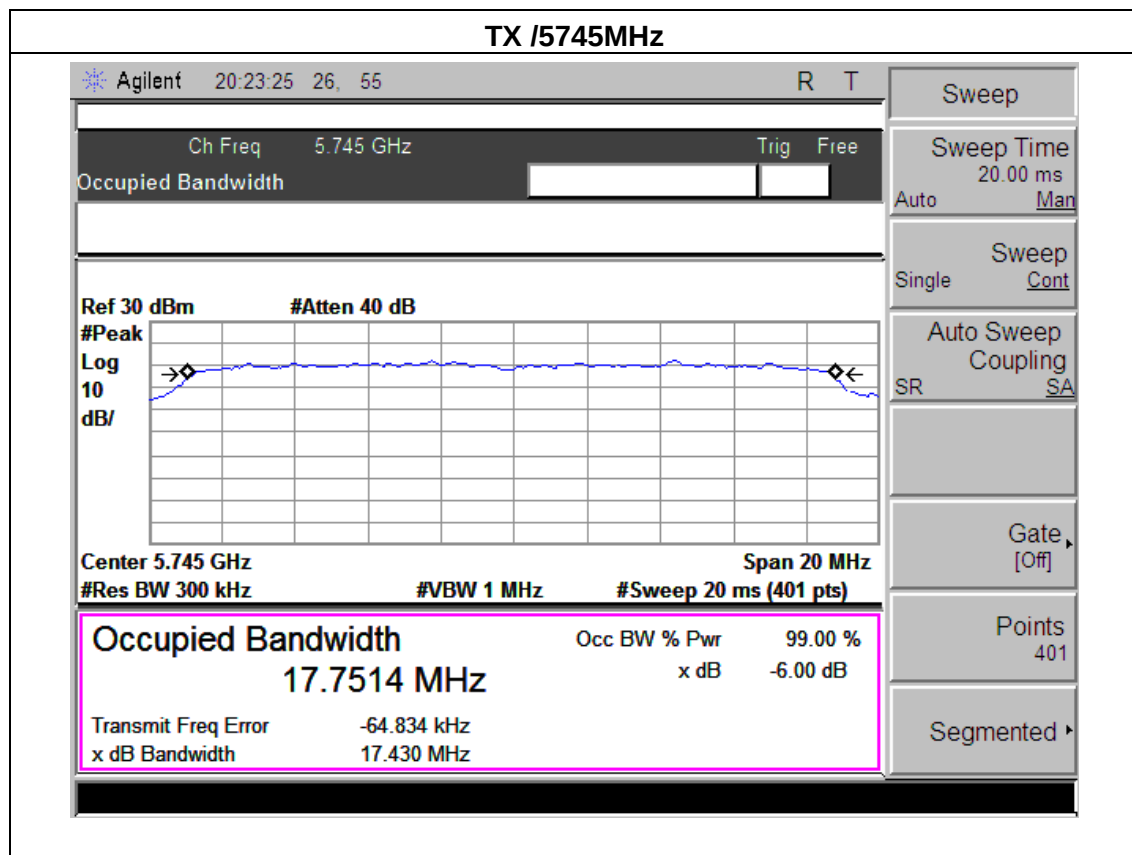


TX CH 09

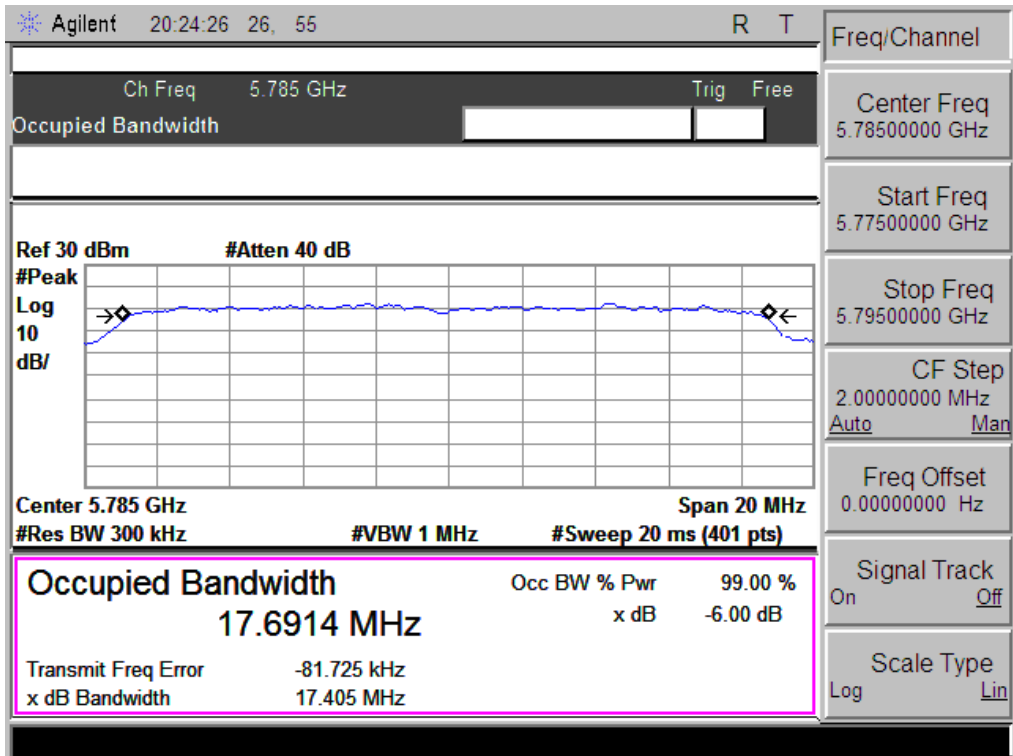


EUT :	WLAN 11n Dual Band module	Model Name :	WL-6210-V3
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	DC 5V from PC DC 5V
Test Mode :	TX a Mode		

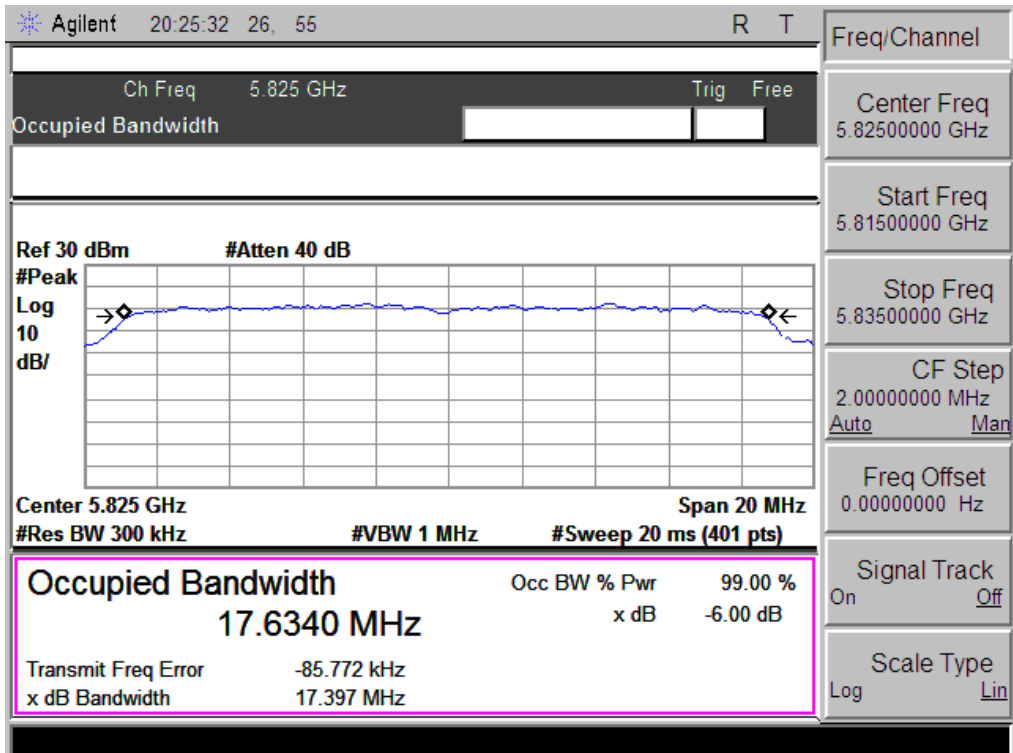
Frequency	6dB Bandwidth (MHz)	Channel Separation (MHz)	Result
5745 MHz	17.43	>=500KHz	PASS
5785 MHz	17.41	>=500KHz	PASS
5825 MHz	17.40	>=500KHz	PASS



TX /5785 MHz

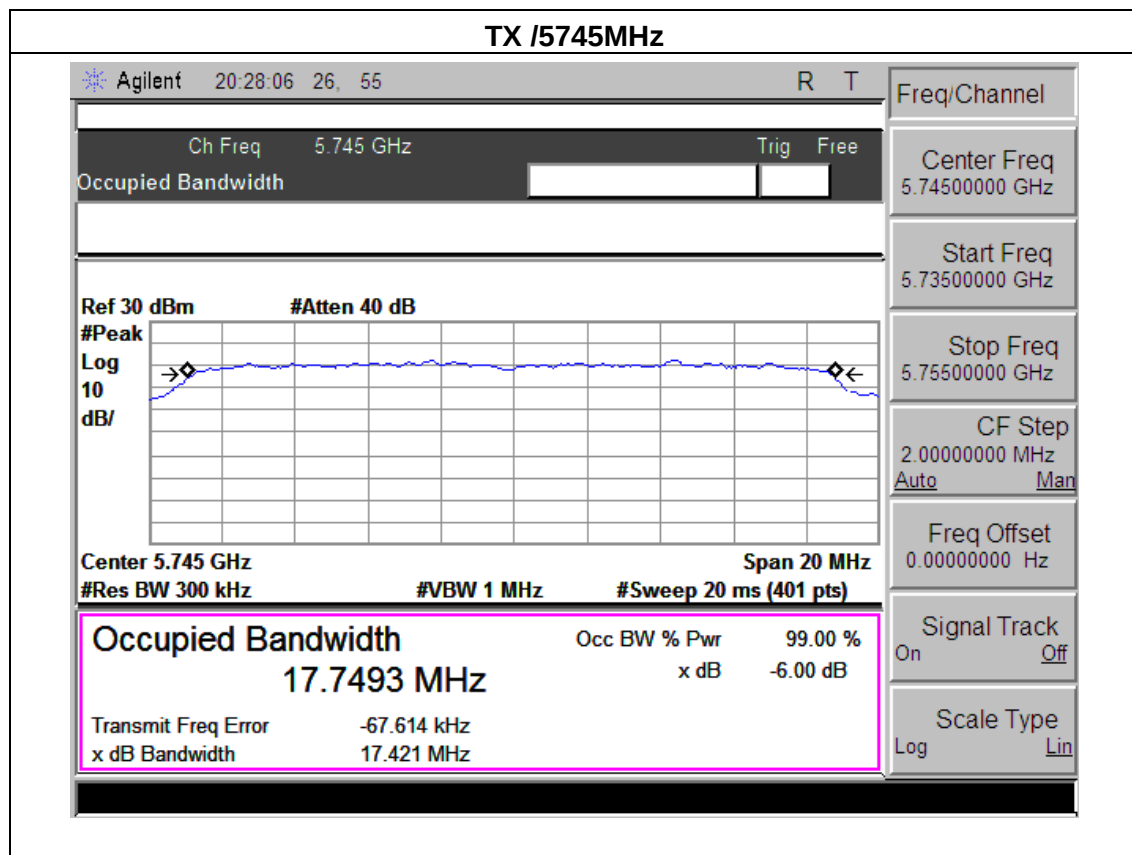


TX/5825MHz

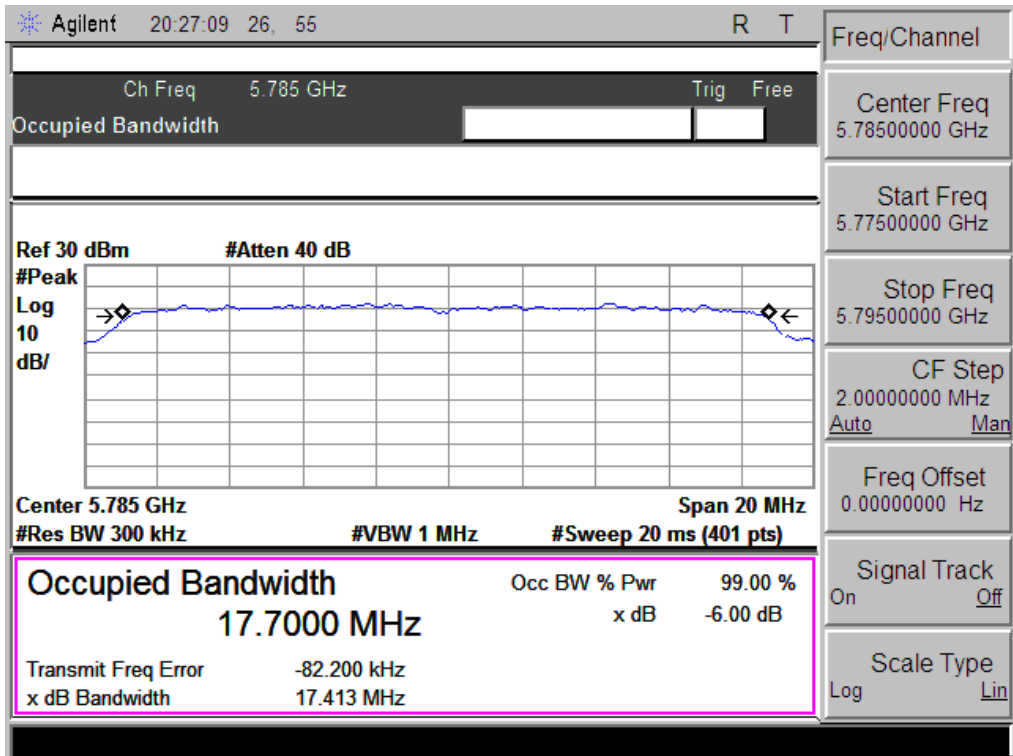


EUT :	WLAN 11n Dual Band module	Model Name :	WL-6210-V3
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	DC 5V from PC DC 5V
Test Mode :	TX n(20)		

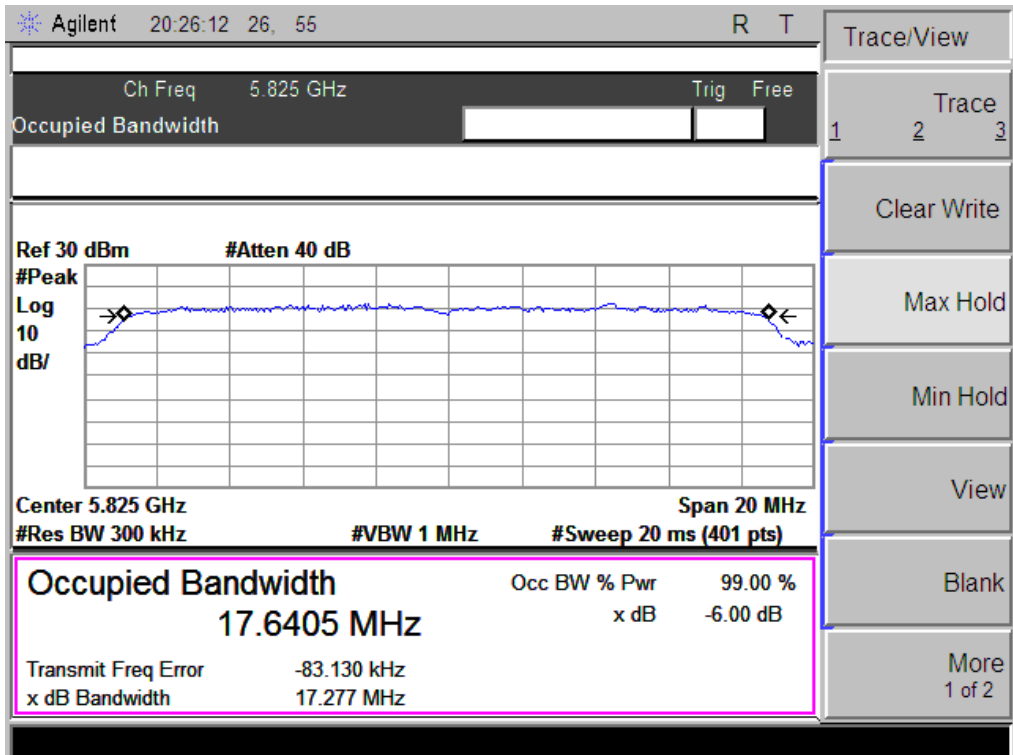
Frequency	6dB Bandwidth (MHz)	Channel Separation (MHz)	Result
5745 MHz	17.42	>=500KHz	PASS
5785 MHz	17.41	>=500KHz	PASS
5825 MHz	17.28	>=500KHz	PASS



TX /5785MHz

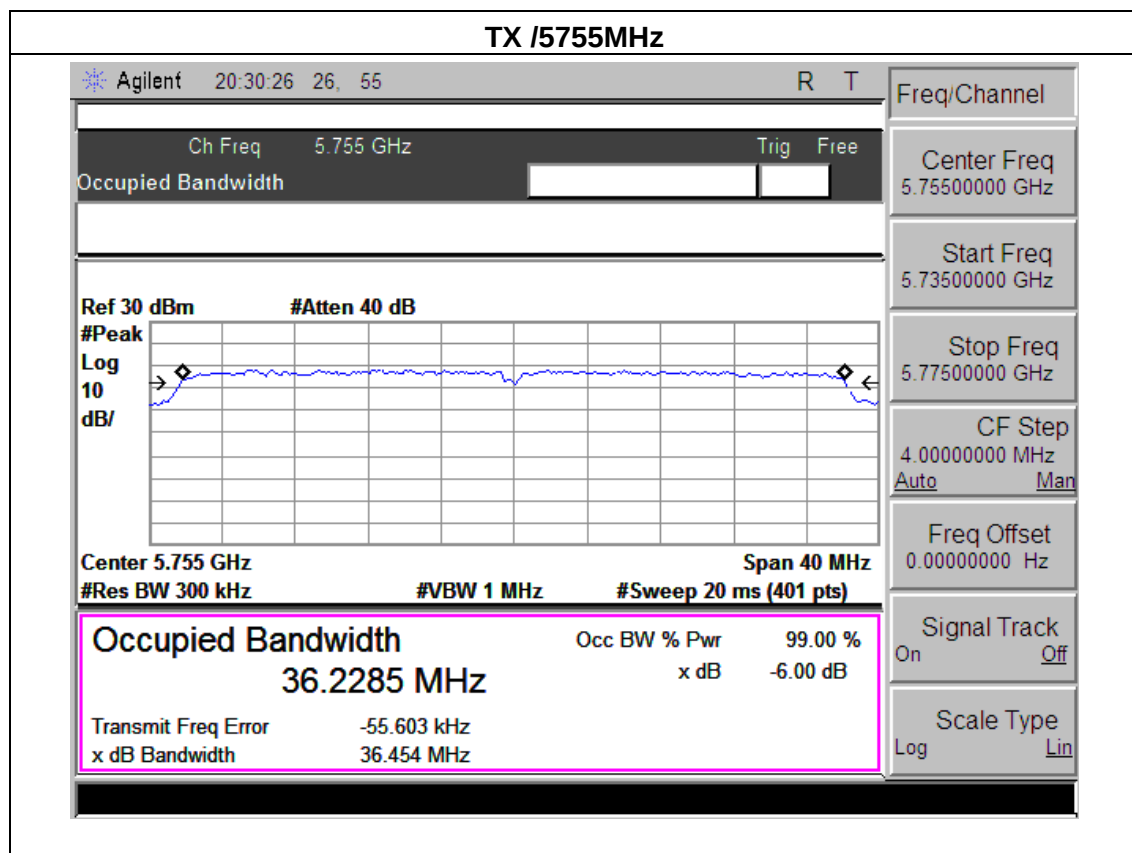


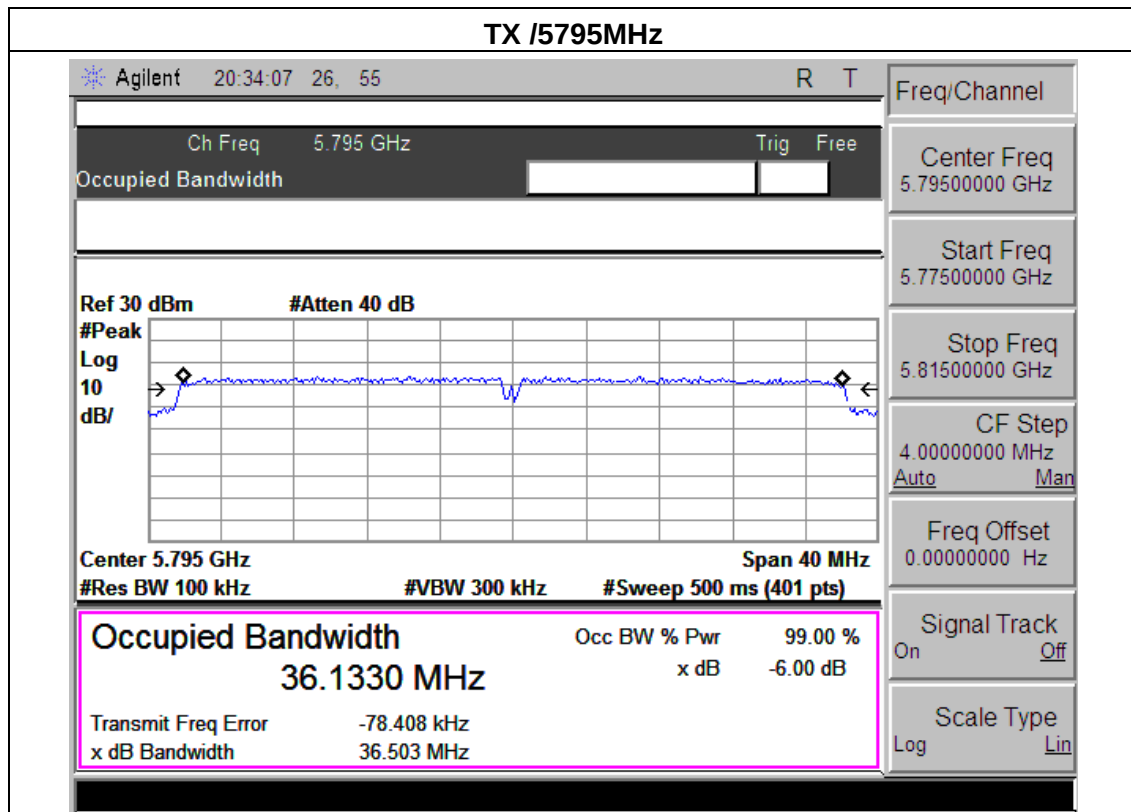
TX /5825MHz



EUT :	WLAN 11n Dual Band module	Model Name :	WL-6210-V3
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	DC 5V from PC DC 5V
Test Mode :	TX n(40)		

Frequency	6dB Bandwidth (MHz)	Channel Separation (MHz)	Result
5755 MHz	36.45	>=500KHz	PASS
5795 MHz	36.50	>=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 :	WLAN 11n Dual Band module	Model Name :	WL-6210-V3
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	DC 5V
Test Mode :	TX b/g/n(20M,40M) Mode /CH01, CH06, CH11		

802.11b Mode

Test Channe	Frequency	Output Power/A	Output Power/B	Total Output Power	LIMIT
	(MHz)	dBm	dBm	dBm	dBm
CH01	2412	17.78	16.43	N/A	30
CH06	2437	17.56	16.21	N/A	30
CH11	2462	17.73	16.14	N/A	30

802.11g Mode

CH01	2412	14.55	13.54	N/A	30
CH06	2437	14.68	13.42	N/A	30
CH11	2462	14.76	13.31	N/A	30

802.11n(20) Mode

CH01	2412	13.69	12.45	16.12	30
CH06	2437	13.79	12.52	16.21	30
CH11	2462	13.54	12.19	15.93	30

802.11n(40) Mode

CH03	2422	11.88	10.67	14.33	30
CH06	2437	11.37	10.54	13.99	30
CH09	2452	11.67	10.32	14.06	30

802.11a Mode

Test Channe	Frequency	Output Power/A	Output Power/B	Total Output Power	LIMIT
	(MHz)	dBm	dBm	dBm	dBm
CH149	5745 MHz	10.06	9.53	12.81	30
CH157	5785 MHz	10.06	9.42	12.76	30
CH165	5825 MHz	10.78	9.33	13.13	30

802.11n(20) Mode

CH149	5745 MHz	10.34	9.32	12.87	30
CH157	5785 MHz	10.19	9.21	12.74	30
CH165	5825 MHz	10.40	9.22	12.86	30

802.11n(40) Mode

CH151	5755 MHz	9.69	9.45	12.58	30
CH159	5795 MHz	9.79	9.52	12.66	30

7. ANTENNA REQUIREMENT

7.1 STANDARD REQUIREMENT

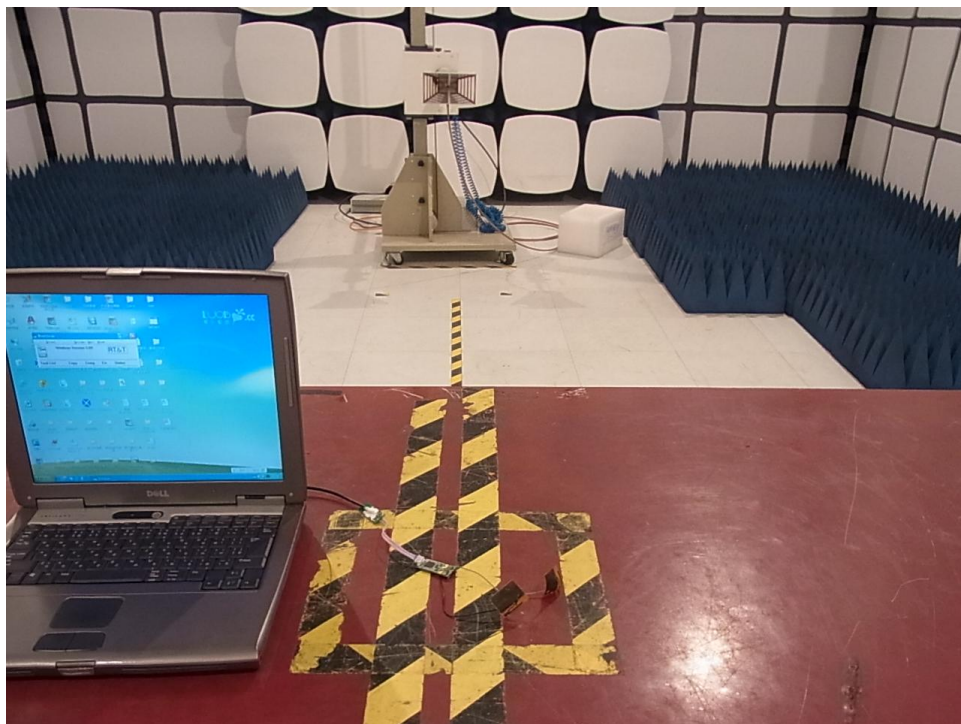
15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

7.2 EUT ANTENNA

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

8. EUT TEST PHOTO

Radiated Measurement Photos



Conducted Measurement Photos

