FCC 47 CFR PART15 SUBPART E

Test Report

For

Prepared by

Product Name: Notebook / Tablet Computer

Brand Name: Lenovo

Model No.:
Lenovo ideapad MIIX 510-12IKB****;80XE******
(* can be 0-9,A-Z,a-z,- or blank)**

Series Model: N/A

FCC ID: PPD-QCNFA435
IC: 4104A-QCNFA435

Test Report Number:

C161111R03-C-RPW1

Issued for

Shenzhen 3NOD Information Technology Co., Ltd

Tangxiayong, Zhongf Road 15 building five , Songgang, Baoan, Shenzhen, 518105 P.R.China

Issued by

Compliance Certification Services Inc.

Kun shan Laboratory

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ACCREDITED
TESTING CERT #2541.01

Revision History

Rev.	Issue Date	Report NO.	Effect Page	Contents
00	September 7, 2016	C160812R01-RPW1	ALL	N/A
Update	September 19, 2016	C160817R01-RPW1	P1,P4,P5	Update the Product Name
01	September 29, 2016	C160817R01-RPW1	P15,P36~P72	Add radiated emissions test plots and VBW description
Update	December 22, 2016	C161111R03-C-RPW1	P1,P4,P5	Update Model No.

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1 TEST RESULT CERTIFICATION

Product Name:	Notebook / Tablet Computer
Trade Name:	Lenovo
Model Name.:	Lenovo ideapad MIIX 510-12IKB******;80XE****** (* can be 0-9,A-Z,a-z,- or blank)
Series Model:	N/A
Applicant Discrepancy:	Initial
Device Category:	Mobile Device
Date of Test:	September 3, 2016 & September 7, 2016
Applicant:	**Shenzhen 3NOD Information Technology Co., Ltd** Tangxiayong, Zhongf Road 15 building five , Songgang, Baoan, Shenzhen, 518105 P.R.China
Manufacturer:	**Lenovo PC HK Limited** 23/F, Lincoln House, Taikoo Place979 King's Road, Quarry Bay, Hong Kong
Application Type:	Certification

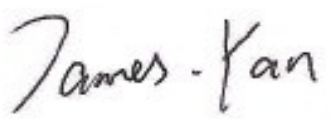
APPLICABLE STANDARDS	
STANDARD	**TEST RESULT**
FCC 47 CFR Part 15 Subpart E	No non-compliance noted
Canada RSS-247 Issue 1	No non-compliance noted
Canada RSS-Gen Issue 4	No non-compliance noted

The above equipment was tested by Compliance Certification Services Inc. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10:2013 and the energy emitted by the sample EUT tested as described in this report is in compliance with the requirements of FCC Rules Part 15.207, 15.209, 15.407 & Canada RSS-247 Issue 1 and KDB 789033.
The test results of this report relate only to the tested sample EUT identified in this report.

Approved by:

Jeff.Fang
RF Manager
Compliance Certification Service Inc.

Tested by:



James.Yan
Test Engineer
Compliance Certification Service Inc.

2 EUT DESCRIPTION

Product Name:	Notebook / Tablet Computer	
Brand Name:	Lenovo	
Model Name:	Lenovo ideapad MIIX 510-12IKB******;80XE******(* can be 0-9,A-Z,a-z,- or blank)	
Series Model:	N/A	
Model Discrepancy:	N/A	
Module:	QCNFA435	
Power Adapter Power Rating :	Adapter 1 Brand Name: Lenovo Model : ADL45WCC Input: 100-240V~1.5A 50-60Hz Output: 20V 2.25A	Adapter 2 Brand Name: Lenovo Model :PA-1450-55LL Input: 100-240V~1.7A 50-60Hz Output: 20V 2.25A
	Adapter 3 Brand Name: Lenovo Model : ADP-45DW B Input: 100-240V~1A 50-60Hz Output: 20V 2.25A	
Frequency Range :	5150MHz-5250MHz 5250MHz-5350MHz 5470MHz-5725MHz 5725MHz-5850MHz	
Modulation Technique:	IEEE 802.11a: OFDM IEEE 802.11n HT20 MHz Mode: OFDM IEEE 802.11n HT40 MHz Mode: OFDM IEEE 802.11ac HT80 MHz Mode: OFDM	
Antenna Specification:	Gain(dBi)	
	2.4GHz:1.76dBi	5GHz:2.27dBi

Remark:

1. The sample selected for test was engineering sample that approximated to production product and was provided by manufacturer.
2. This submittal(s) (test report) is intended for **FCC ID: PPD-QCNFA435** filing to comply with FCC Part 15, Subpart E Rules.
3. This submittal(s) (test report) is intended for **IC: 4104A-QCNFA435** filing to comply with Canada RSS-247 Issue 1 and Canada RSS-Gen Issue 3 Rules.

EUT Conducted output power(dBm)

WLAN5.2GHz

Mode	Channel	Frequence (MHZ)	Chain0 Target power(dBm)	Turn up tolerance (dBm)	Maximum Turn up power (dBm)	Average Power (dBm)
802.11 a	36	5180	10.5	±2	12.5	12.40
	40	5200	10.5	±2	12.5	12.42
	48	5240	10.5	±2	12.5	12.22
802.11 n 20MHz	36	5180	10	±2	12	11.86
	40	5200	10	±2	12	11.90
	48	5240	10	±2	12	11.60
802.11 n 40MHz	38	5190	10	±2	12	11.52
	46	5230	10	±2	12	11.67
802.11 ac80	42	5210	10	±2	12	11.60

WLAN5.3GHz

Mode	Channel	Frequence (MHZ)	Chain0 Target power(dBm)	Turn up tolerance (dBm)	Maximum Turn up power (dBm)	Average Power (dBm)
802.11 a	52	5260	10.5	±2	12.5	12.30
	56	5280	10.5	±2	12.5	12.50
	64	5320	10.5	±2	12.5	12.49
802.11 n 20MHz	52	5260	10	±2	12	11.95
	56	5280	10	±2	12	11.76
	64	5320	10	±2	12	11.75
802.11 n 40MHz	54	5270	10	±2	12	11.82
	62	5310	10	±2	12	11.95
802.11 ac80	58	5290	10	±2	12	11.87

WLAN5.5GHz

Mode	Channel	Frequence (MHZ)	Chain0 Target power(dBm)	Turn up tolerance (dBm)	Maximum Turn up power (dBm)	Average Power (dBm)
802.11 a	100	5500	10.5	±2	12.5	12.32
	116	5580	10.5	±2	12.5	12.30
	128	5640	10.5	±2	12.5	12.50
802.11 n 20MHz	100	5500	10	±2	12	11.76
	116	5580	10	±2	12	11.95
	128	5640	10	±2	12	11.90
802.11 n 40MHz	102	5510	10	±2	12	11.90
	126	5630	10	±2	12	11.66
802.11 ac80	122	5610	10	±2	12	11.78

WLAN5.8GHz

Mode	Channel	Frequence	Chain0 Average power(dBm)	Turn up tolerance (dBm)	Maximum Turn up power (dBm)	Average power (dBm)
802.11 a	149	5745	11	±2	13	12.73
	157	5785	11	±2	13	12.88
	165	5825	11	±2	13	12.58
802.11 n 20MHz	149	5745	10.5	±2	12.5	12.46
	157	5785	10.5	±2	12.5	12.25
	165	5825	10.5	±2	12.5	12.44
802.11 n 40MHz	151	5755	10.5	±2	12.5	12.43
	159	5795	10.5	±2	12.5	12.46
802.11 ac80	155	5775	10.5	±2	12.5	12.28

3 TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.10 2013 and FCC CFR 47 15.207, 15.209 and 15.407,RSS 247.

3.1 EUT CONFIGURATION

The EUT configuration for testing is installed for RF field strength measurement to meet the Commissions requirement, and is operated in a manner intended to generate the maximum emission in a continuous normal application.

3.2 EUT EXERCISE

The EUT is operated in the engineering mode to fix the Tx frequency for the purposes of measurement.

According to its specifications, the EUT must comply with the requirements of Section 15.407 under the FCC Rules Part 15 Subpart E.

3.3 GENERAL TEST PROCEDURES

Conducted Emissions

The EUT is placed on the turntable, which is positioned at 0.8 m above the ground plane. According to the requirements in Section 13.3 of ANSI C63.10:2013, the conducted emission from the EUT is measured in the frequency range between 0.15 MHz and 30MHz, using the CISPR Quasi-Peak detector mode.

Radiated Emissions

Under 1GHz

The EUT is placed on a turn table, which is 0.8 m above ground plane. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 13.1.4.1 of ANSI C63.10:2013.

Above 1GHz

The EUT is placed on a turn table, which is 1.5 m above ground plane. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 13.1.4.1 of ANSI C63.10:2013.

3.4 FCC PART 15.205 RESTRICTED BANDS OF OPERATIONS

1. Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090 - 0.110	13.36 - 13.41	399.9 - 410	4.50 - 5.15
0.495 - 0.505 [1]	16.42 - 16.423	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.69475 - 16.69525	960.0 - 1240	7.25 - 7.75
4.125 - 4.128	16.80425 - 16.80475	1300 - 1427	8.025 - 8.500
4.17725 - 4.17775	25.50 - 25.67	1435.0 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	37.50 - 38.25	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	73.00 - 74.60	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	74.80 - 75.20	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	108.00 - 121.94	2200 - 2300	14.47 - 14.5
8.291 - 8.294	123 - 138	2310 - 2390	15.35 - 16.2
8.362 - 8.366	149.90 - 150.05	2483.5 – 2500.0	17.7 - 21.4
8.37625 - 8.38675	156.52475 - 156.52525	2655 - 2900	22.01 - 23.12
8.41425 - 8.41475	156.70 - 156.90	3260 - 3267	23.6 - 24.0
12.29 - 12.293	162.0125 - 167.1700	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	167.72 - 173.20	3345.8 - 3358.0	36.43 - 36.5([2])
12.57675 - 12.57725	240 - 285	3600 - 4400	
	322.0- 335.4		

[1] Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

[2] Above 38.6

2. Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

3.5 DESCRIPTION OF TEST MODES

The EUT transmitting and receiving with one antenna working at a/an/ac mode, so 1x1 configuration was used for all testing in this report.

Software used to control the EUT for staying in continuous transmitting mode was programmed.

After verification, all tests were carried out with the worst case test modes as shown below except radiated spurious emission below 1GHz, which worst case was in normal link mode only.

IEEE 802.11a mode:

Channel Low, Channel Mid and Channel High with 6Mbps data rate were chosen for full testing.

IEEE 802.11n HT20 MHz Channel mode:

Channel Low, Channel Mid and Channel High with MCS0 data rate were chosen for full testing.

IEEE 802.11n HT40 MHz Channel mode:

Channel Low, Channel Mid and Channel High with MCS0 data rate were chosen for full testing.

IEEE 802.11ac HT80 MHz Channel mode:

Channel with MCS0 data rate were chosen for full testing.

Note : After the preliminary scan the EUT with Adapter 3 was the worst mode, which mode data was

recorded.

4 INSTRUMENT CALIBRATION

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment, which is traceable to recognized national standards.

4.1 MEASUREMENT EQUIPMENT USED

977 Chamber					
Name of Equipment	**Manufacturer**	**Model**	**Serial Number**	**Calibration Date**	**Calibration Due**
Spectrum Analyzer	Agilent	E4446A	MY44020154	2015-9-11	2016-9-10
EMI Test Receiver	R&S	ESCI	101378	2016-1-6	2017-1-5
Pre-Amplfier	MINI	ZFL-1000VH2	070306	2016-1-13	2017-1-12
Pre-Amplfier	Miteq	JS41-00101800-32-10P	1675713	2016-7-21	2017-7-20
Bilog Antenna	Sunol	JB1	A062604	2016-3-6	2017-3-5
Horn-antenna	SCHWARZBECK	BBHA9120D	D:266	2016-3-7	2017-3-5
Turn Table	CT	CT123	4165	N.C.R	N.C.R
Antenna Tower	CT	CTERG23	3256	N.C.R	N.C.R
Controller	CT	CT1OO	95637	N.C.R	N.C.R
Test Software			EZ-EMC		

Remark: *Each piece of equipment is scheduled for calibration once a year.*

4.2 MEASUREMENT UNCERTAINTY

For the test methods, according to the present document, the measurement uncertainty figures shall be calculated in accordance with TR 100 028-1 [2] and shall correspond to an expansion factor (coverage factor) k = 1,96 or k = 2 (which provide confidence levels of respectively 95 % and 95,45 % in the case where the distributions characterizing the actual measurement uncertainties are normal (Gaussian)).

Table 6 is based on such expansion factors.

Table 6: Maximum measurement uncertainty

Parameter	UNCERTAINTY
Radio frequency	±0.8 × 10-7
RF power, conducted	0.2054
Maximum frequency deviation: -within 300 Hz and 6 kHz of audio frequency -within 6 kHz and 25 kHz of audio frequency	 1.3% 0.65 dB
Adjacent channel power	0.2054
Conducted spurious emission of transmitter, valid up to 6 GHz	0.2892
Conducted emission of receivers	+1.2/-1.1 dB
Radiated emission of transmitter, valid up to 6 GHz	±3.94 dB
Radiated emission of receiver, valid up to 6 GHz	±3.94 dB
RF level uncertainty for a given BER	±0.3 dB
Temperature	0.1979
Humidity	±1 %

5 FACILITIES AND ACCREDITATIONS

5.1 FACILITIES

All measurement facilities used to collect the measurement data are located at
☒ **No.10Weiye Rd., Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China.**
The sites are constructed in conformance with the requirements of ANSI C63.10:2013 and CISPR Publication 22. All receiving equipment conforms to CISPR Publication 16-1, “Radio Interference Measuring Apparatus and Measurement Methods.”

5.2 EQUIPMENT

Radiated emissions are measured with one or more of the following types of linearly polarized antennas: tuned dipole, biconical, log periodic, bi-log, and/or ridged waveguide, horn. Spectrum analyzers with preselectors and quasi-peak detectors are used to perform radiated measurements.

Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers.

Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.

All receiving equipment conforms to CISPR Publication 16-1, “Radio Interference Measuring Apparatus and Measurement Methods.”

5.3 TABLE OF ACCREDITATIONS AND LISTINGS

Our laboratories are accredited and approved by the following accreditation body according to ISO/IEC 17025.

USA	A2LA
China	CNAS

The measuring facility of laboratories has been authorized or registered by the following approval agencies.

Canada	Industry Canada
Japan	VCCI
Taiwan	BSMI
USA	FCC

Copies of granted accreditation certificates are available for downloading from our web site, http://www.ccsrf.com.

6 SETUP OF EQUIPMENT UNDER TEST

6.1 SETUP CONFIGURATION OF EUT

See test photographs attached in Appendix 1 for the actual connections between EUT and support equipment.

6.2 SUPPORT EQUIPMENT

No.	Equipment	Model No.	Serial No.
1	N/A	N/A	N/A

Remark:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.

2.Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

7 FCC PART 15 REQUIREMENTS

7.1 RADIATED BAND EDGES AND SPURIOUS EMISSIONS

LIMIT

Radiated emissions from 9 kHz to 25 GHz were measured according to the methods defines in ANSI C63.10-2013. The EUT was placed above the ground plane, 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz. The interface cables and equipment positions were varied within limits of reasonable applications to determine the positions producing maximum radiated emissions

1. According to §15.209(a), except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

FREQUENCIES(MHz)	FIELD STRENGTH (microvolts/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

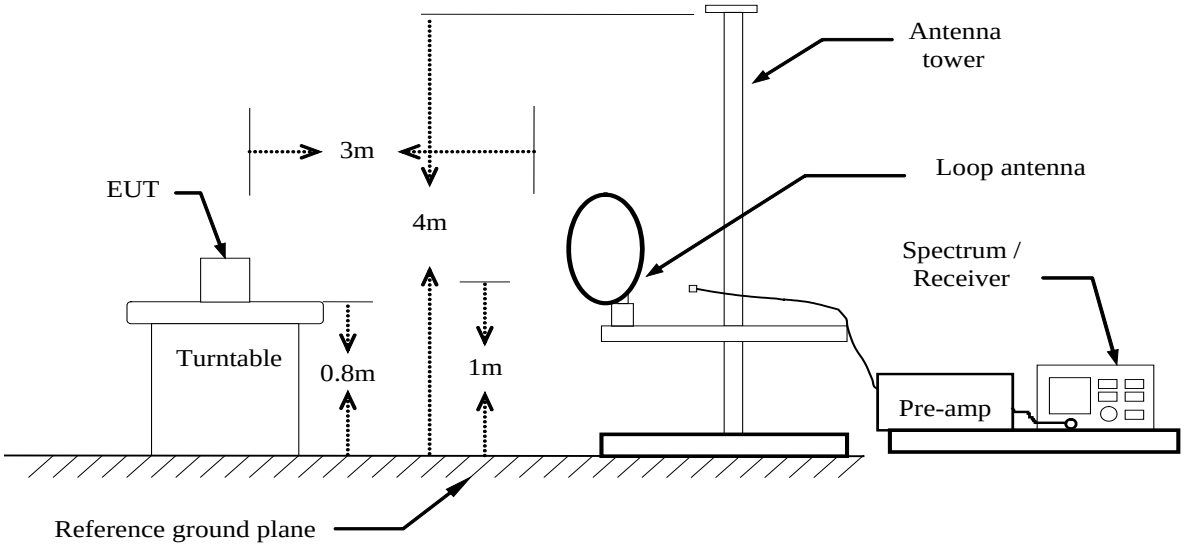
Remark: *Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.*

2. In the emission table above, the tighter limit applies at the band edges.

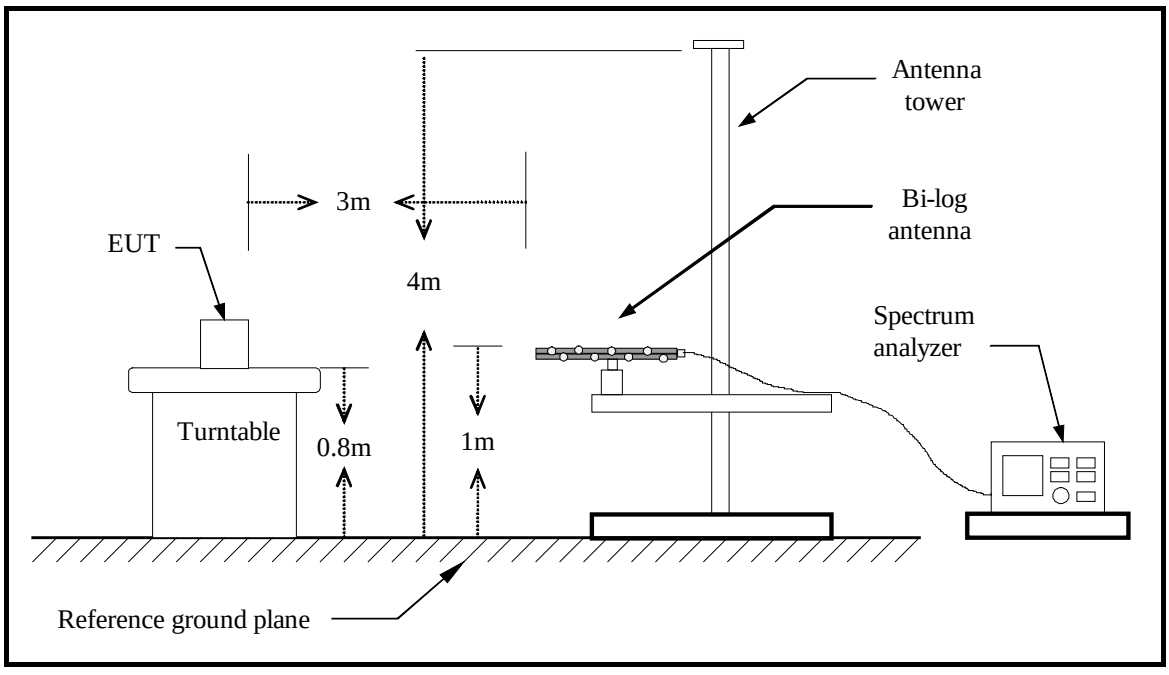
Frequency (MHz)	Field Strength (μV/m at 3-meter)	Field Strength (dBμV/m at 3-meter)
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

Test Configuration

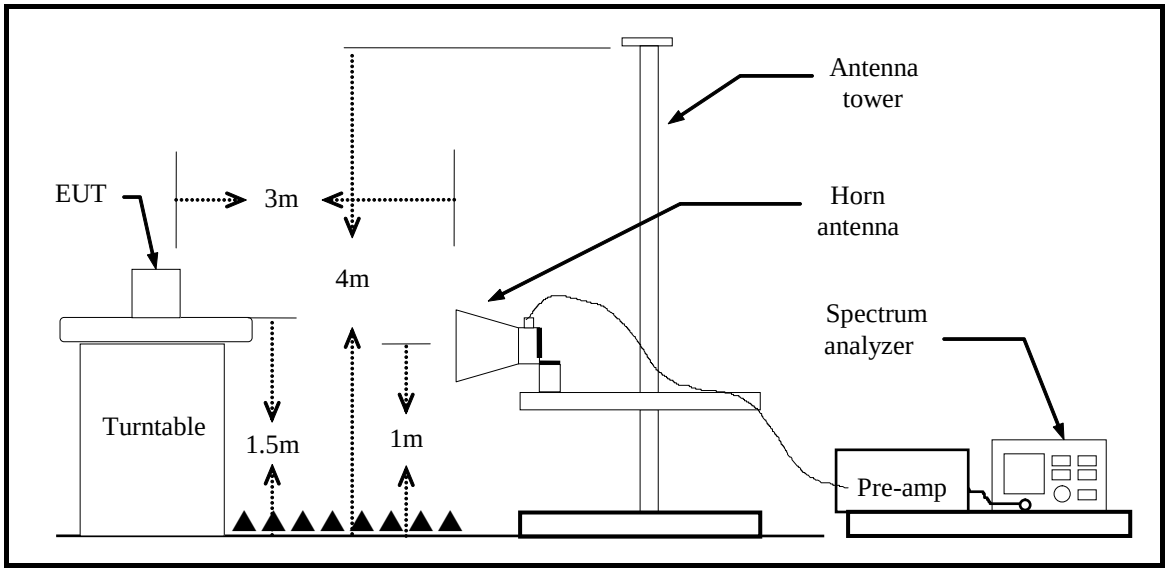
Below 30MHz



Below 1 GHz



Above 1 GHz



TEST PROCEDURE

1. The EUT is placed on a turntable above ground plane, which is 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Set the spectrum analyzer in the following setting as:

Below 1GHz:

RBW=100kHz / VBW=300kHz / Sweep=AUTO

Above 1GHz:

(a) PEAK: RBW=VBW=1MHz / Sweep=AUTO

AVERAGE: RBW=1MHz / Sweep=AUTO

VBW=10Hz,when duty cycle is no less than 98 percent.

VBW≧1/T,when duty cycle is less than 98 percent,where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximun power control level for the tested mode of operation.

Band	Duty Cycle(%)	T(ms)	1/T(kHz)	VBW Setting
IEEE 802.11 a	95	2.067	0.484	0.5kHz
IEEE 802.11n HT20	95	1.923	0.520	1.0kHz
IEEE 802.11n HT40	95	0.954	1.048	2.0kHz
IEEE 802.11ac HT80	90	0.769	1.300	2.0kHz

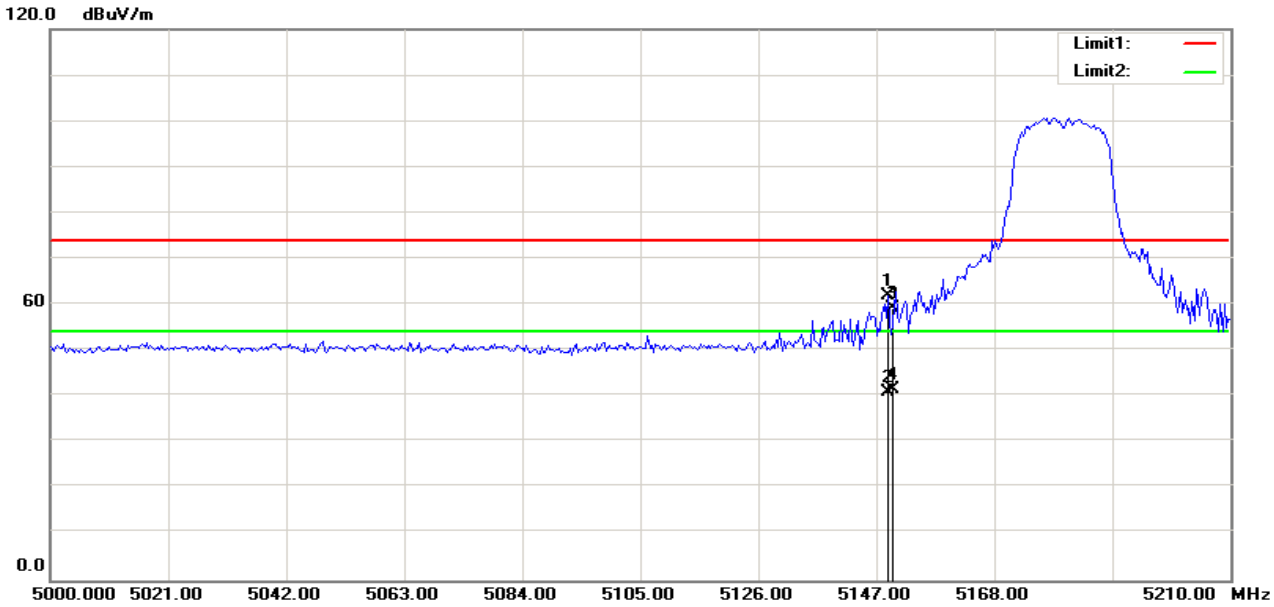
7. Repeat above procedures until the measurements for all frequencies are complete.

TEST RESULTS

Band Edges (IEEE 802.11a mode)

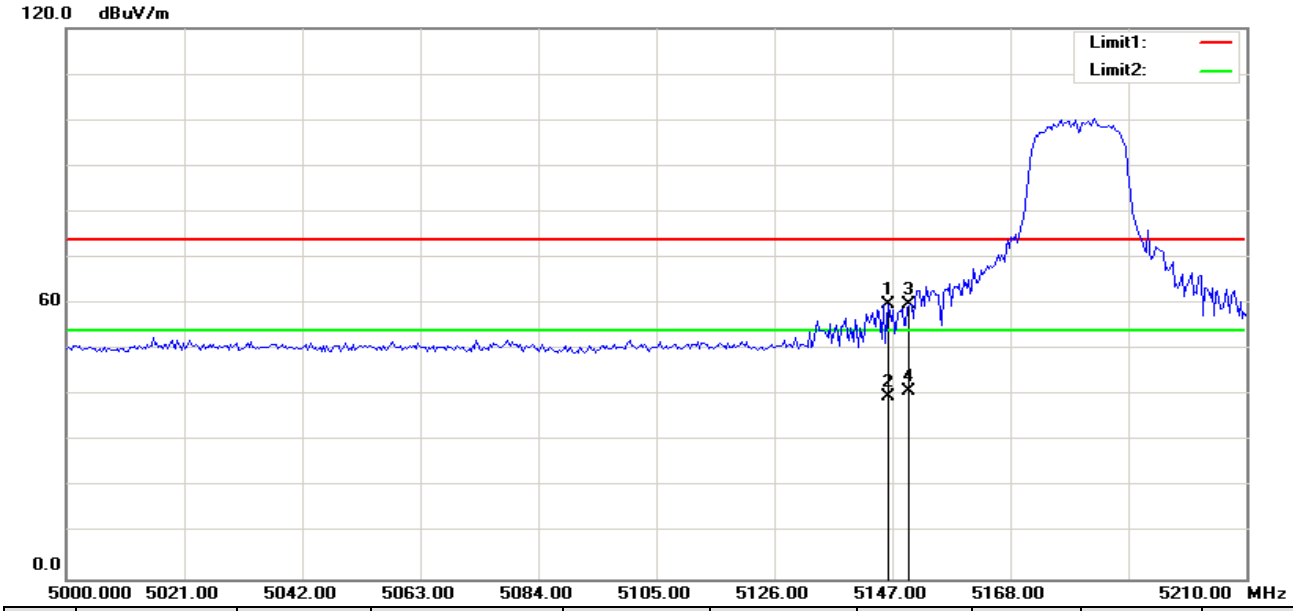
5180MHz

Polarity: Vertical



No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	5149.087	65.51	-3.60	61.91	74.00	-12.09	100	172	peak
2	5149.087	44.67	-3.60	41.07	54.00	-12.93	100	177	AVG
3	5150.000	62.89	-3.60	59.29	74.00	-14.71	100	180	peak
4	5150.000	45.01	-3.60	41.41	54.00	-12.59	100	179	AVG

Polarity: Horizontal

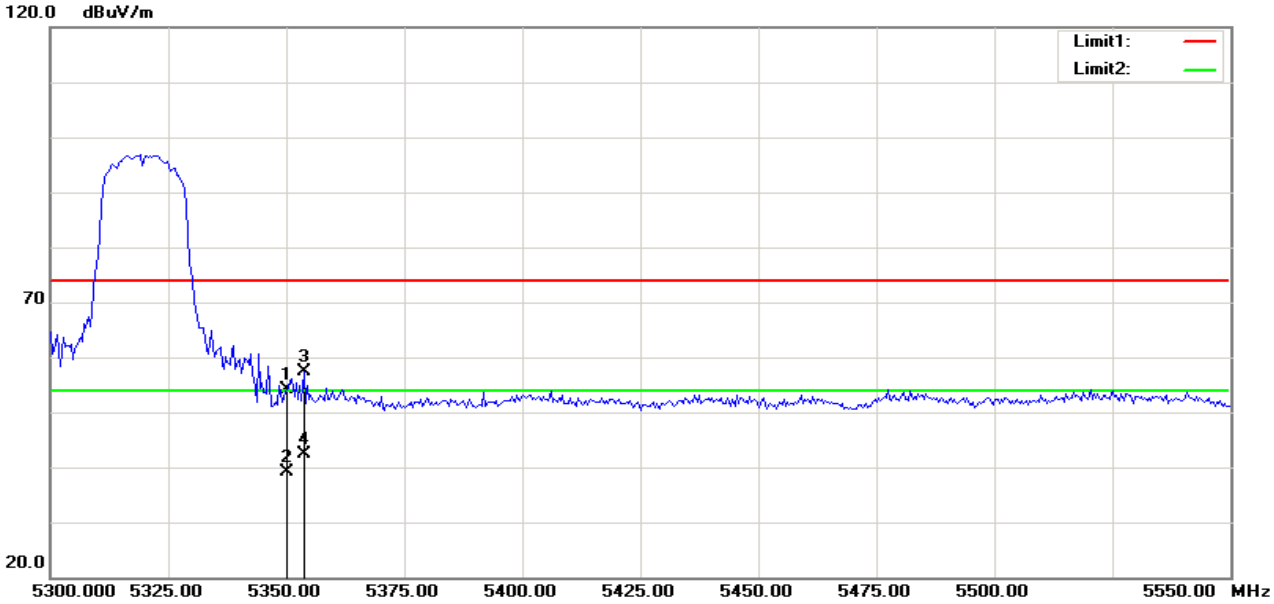


No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	5146.394	63.51	-3.61	59.90	74.00	-14.10	100	250	peak
2	5146.394	43.44	-3.61	39.83	54.00	-14.17	100	250	AVG

3	5150.000	63.34	-3.60	59.74	74.00	-14.26	100	252	peak
4	5150.000	44.44	-3.60	40.84	54.00	-13.16	100	249	AVG

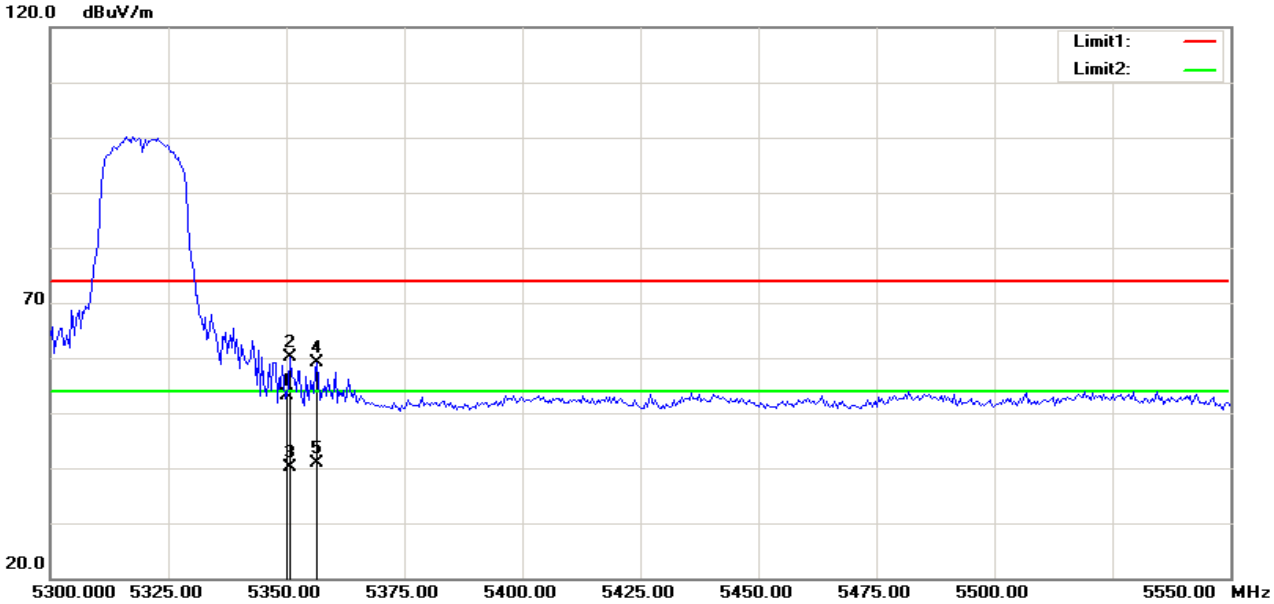
5320MHz

Polarity: Vertical



No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	5350.000	56.78	-2.66	54.12	74.00	-19.88	100	279	peak
2	5350.000	41.79	-2.66	39.13	54.00	-14.87	100	279	AVG
3	5353.686	59.99	-2.65	57.34	74.00	-16.66	100	192	peak
4	5353.686	45.00	-2.65	42.35	54.00	-11.65	100	192	AVG

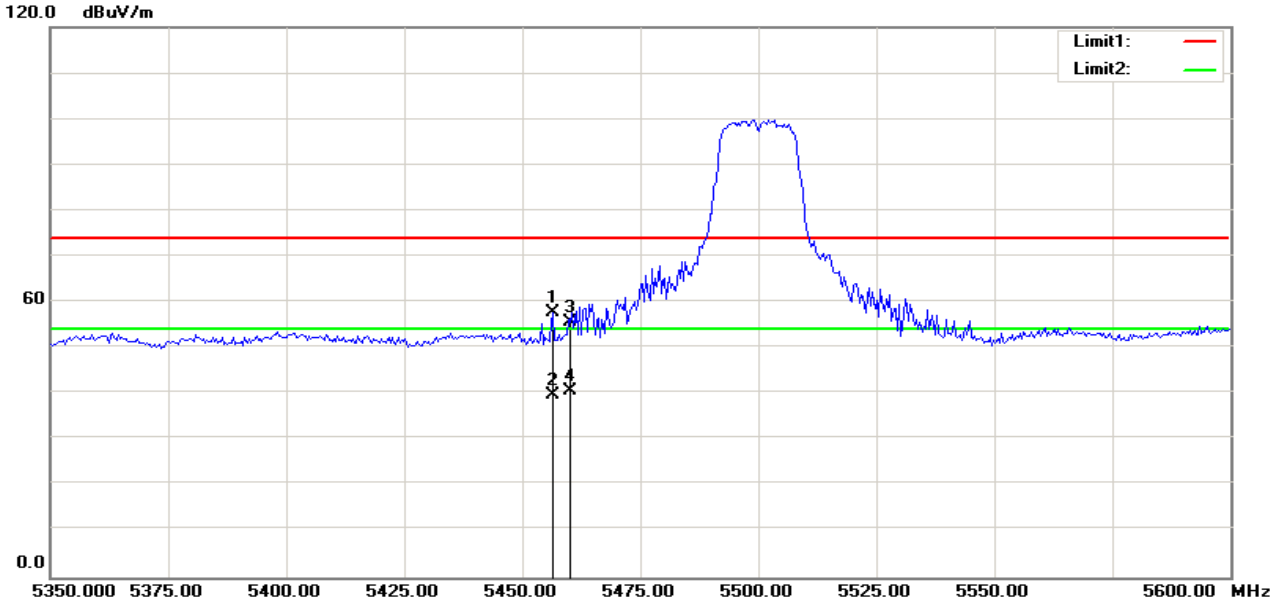
Polarity: Horizontal



No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	5350.000	55.78	-2.66	53.12	74.00	-20.88	100	153	peak
2	5350.881	62.78	-2.66	60.12	74.00	-13.88	100	171	peak
3	5350.881	42.73	-2.66	40.07	54.00	-13.93	100	170	AVG
4	5356.490	61.83	-2.64	59.19	74.00	-14.81	100	218	peak
5	5356.490	43.49	-2.64	40.85	54.00	-13.15	100	217	AVG

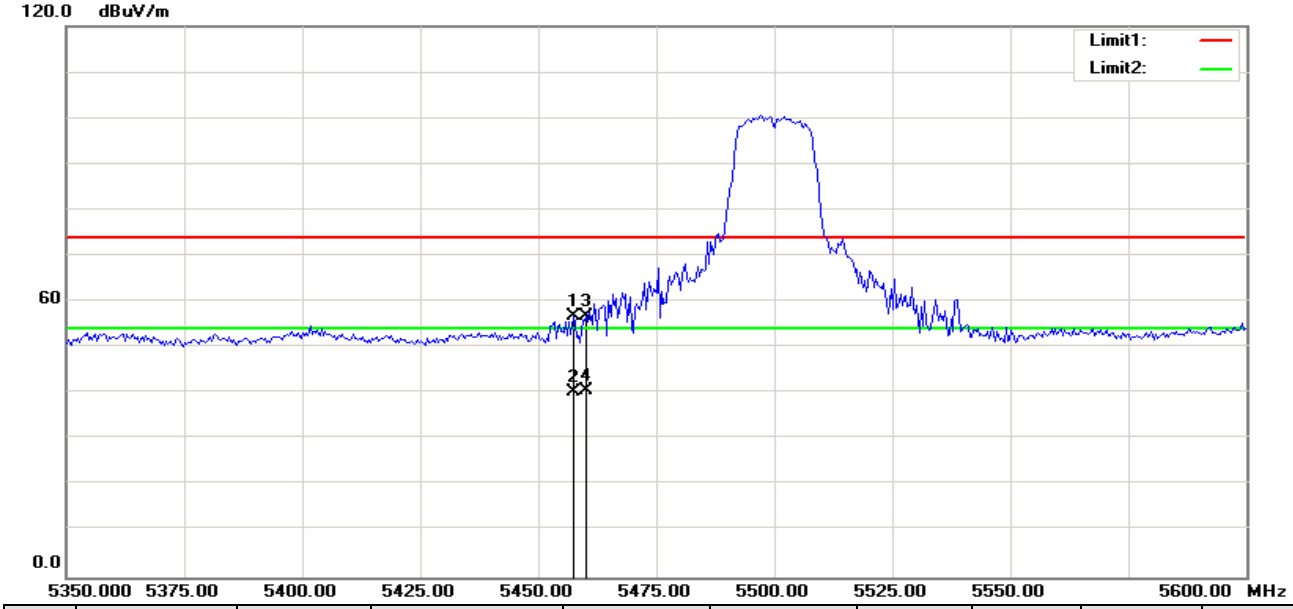
5500MHz

Polarity: Vertical



No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	5456.570	59.98	-2.16	57.82	74.00	-16.18	100	225	peak
2	5456.570	41.94	-2.16	39.78	54.00	-14.22	100	228	AVG
3	5460.000	57.87	-2.14	55.73	74.00	-18.27	100	227	peak
4	5460.000	42.69	-2.14	40.55	54.00	-13.45	100	229	AVG

Polarity: Horizontal

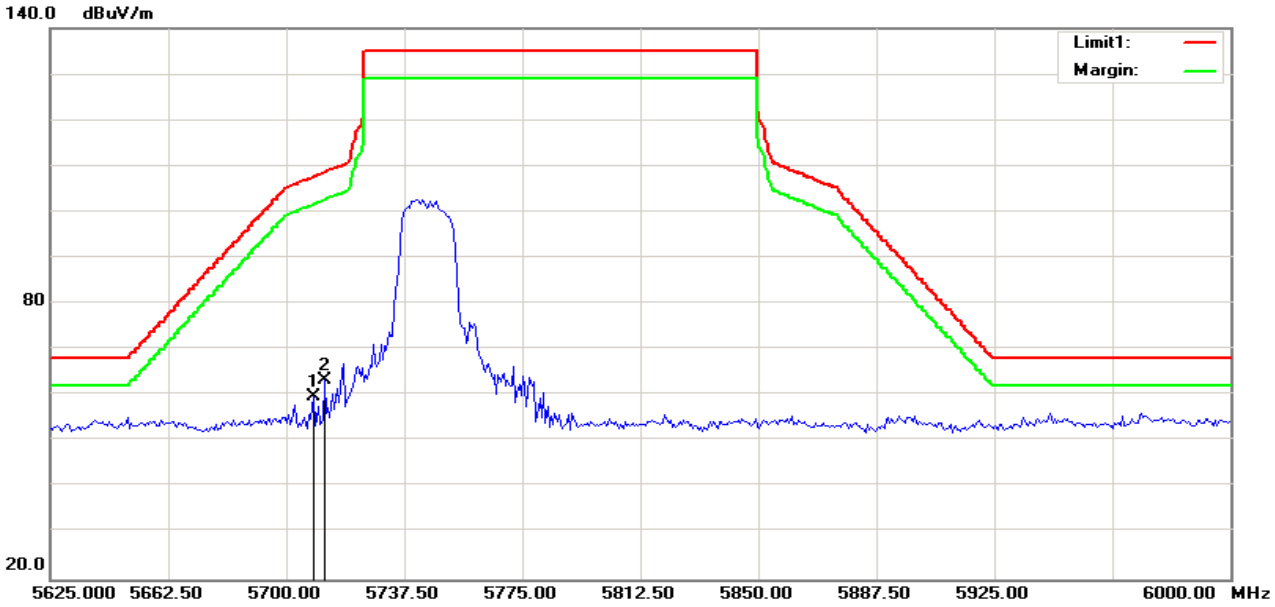


No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	5457.372	59.13	-2.15	56.98	74.00	-17.02	100	204	peak
2	5457.372	42.46	-2.15	40.31	54.00	-13.69	100	207	AVG
3	5460.000	58.88	-2.14	56.74	74.00	-17.26	100	165	peak

4	5460.000	42.86	-2.14	40.72	54.00	-13.28	100	168	AVG

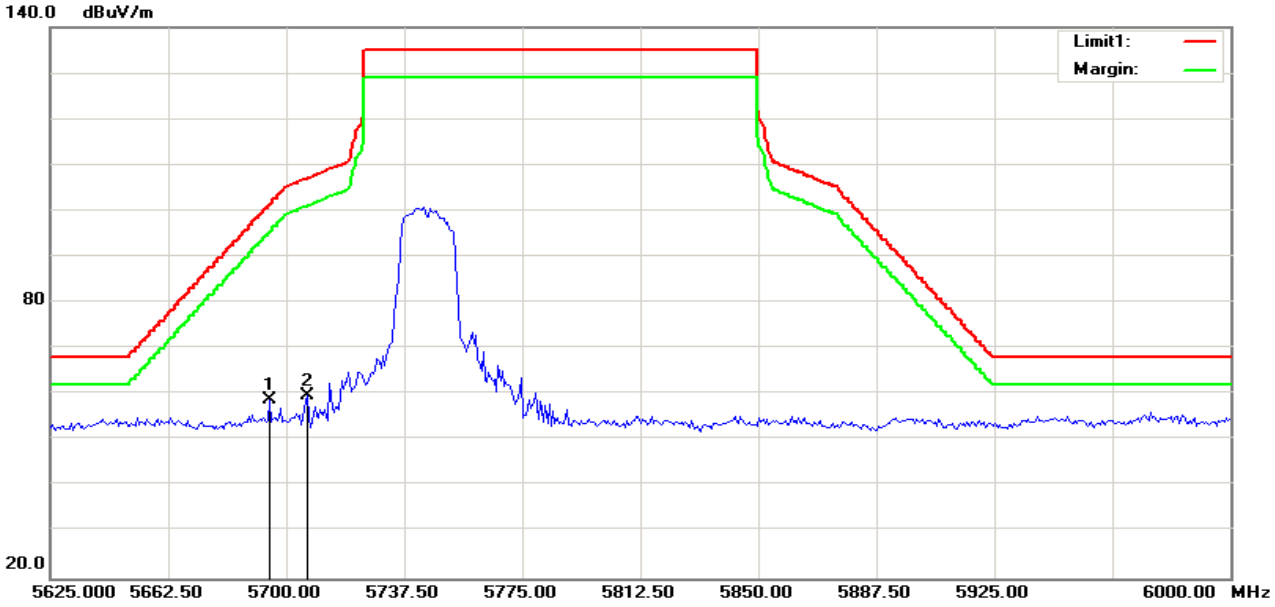
5745MHz

Polarity: Vertical



No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	5708.534	60.78	-0.98	59.80	107.59	-47.79	100	178	peak
2	5712.139	64.33	-0.96	63.37	108.60	-45.23	100	178	peak

Polarity: Horizontal

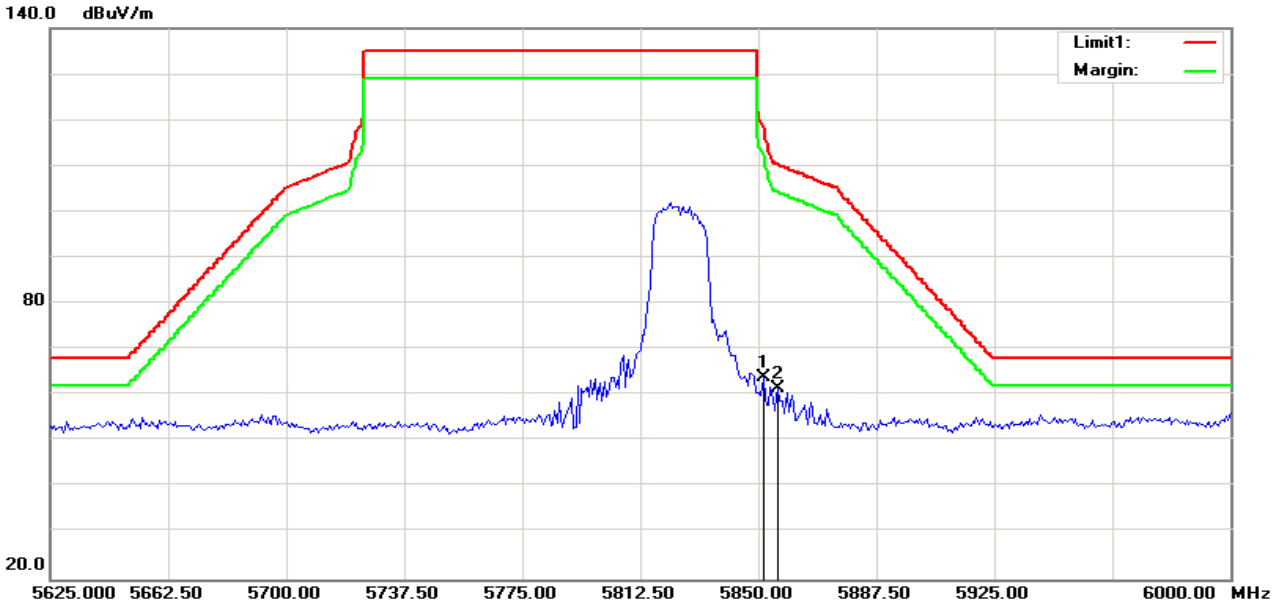


No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	

1	5694.712	59.95	-1.04	58.91	101.29	-42.38	100	204	peak
2	5706.731	60.78	-0.99	59.79	107.08	-47.29	100	251	peak

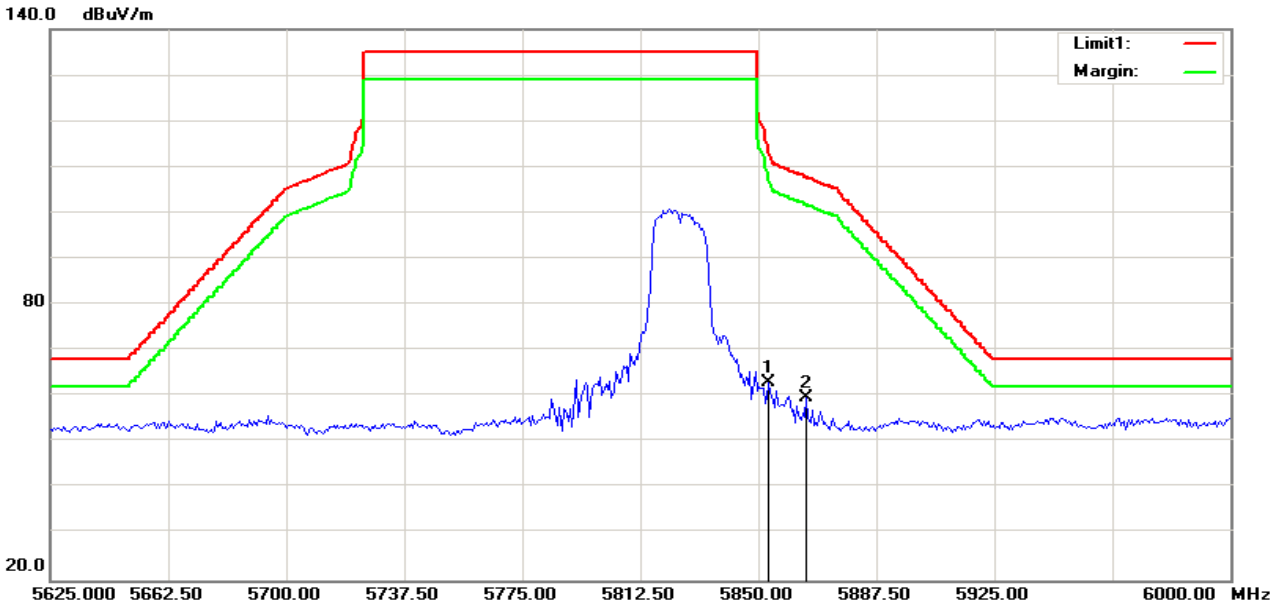
5825MHz

Polarity: Vertical



No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	5851.563	64.31	-0.31	64.00	118.64	-54.64	100	271	peak
2	5856.370	61.84	-0.28	61.56	110.42	-48.86	100	17	peak

Polarity: Horizontal



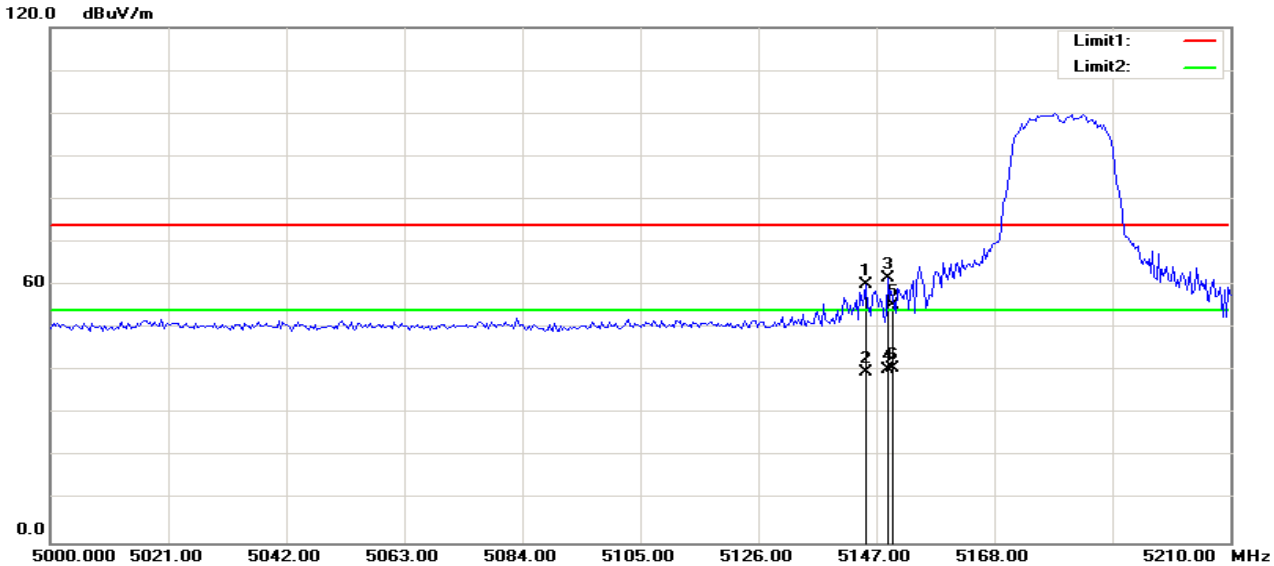
No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark

	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	5853.365	63.40	-0.30	63.10	114.53	-51.43	100	229	peak
2	5865.385	60.02	-0.24	59.78	107.89	-48.11	100	226	peak

Band Edges (IEEE 802.11n HT20 mode)

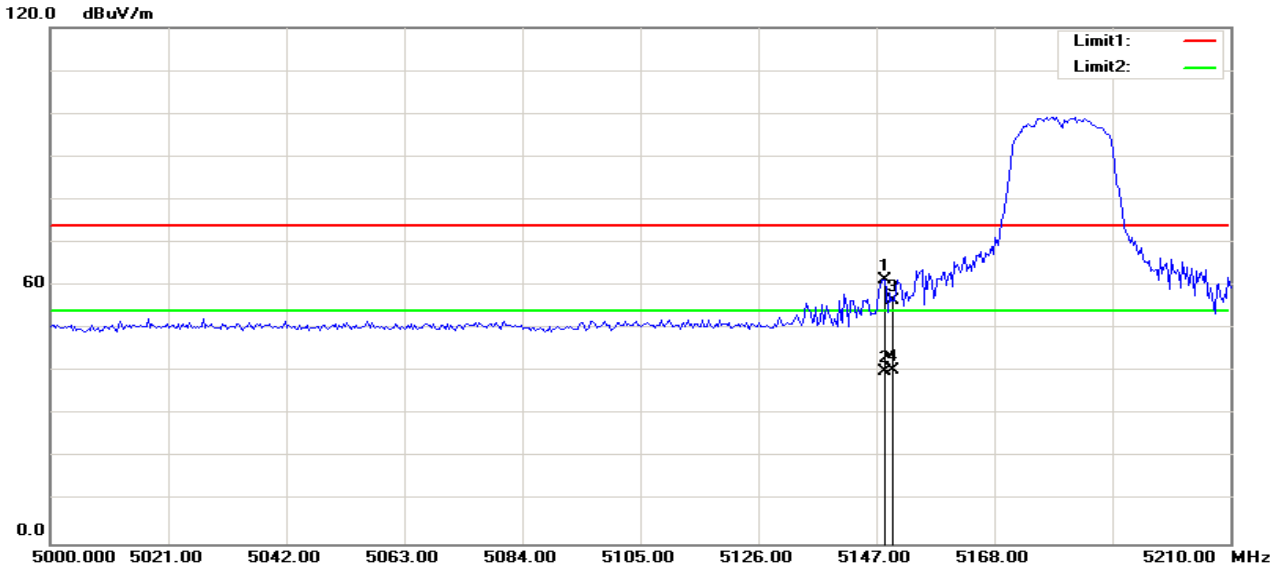
5180MHz

Polarity: Vertical



No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	5145.048	63.74	-3.62	60.12	74.00	-13.88	100	182	peak
2	5145.048	43.26	-3.62	39.64	54.00	-14.36	100	180	AVG
3	5149.087	65.23	-3.60	61.63	74.00	-12.37	100	177	peak
4	5149.087	44.04	-3.60	40.44	54.00	-13.56	100	177	AVG
5	5150.000	59.07	-3.60	55.47	74.00	-18.53	100	183	peak
6	5150.000	44.19	-3.60	40.59	54.00	-13.41	100	180	AVG

Polarity: Horizontal

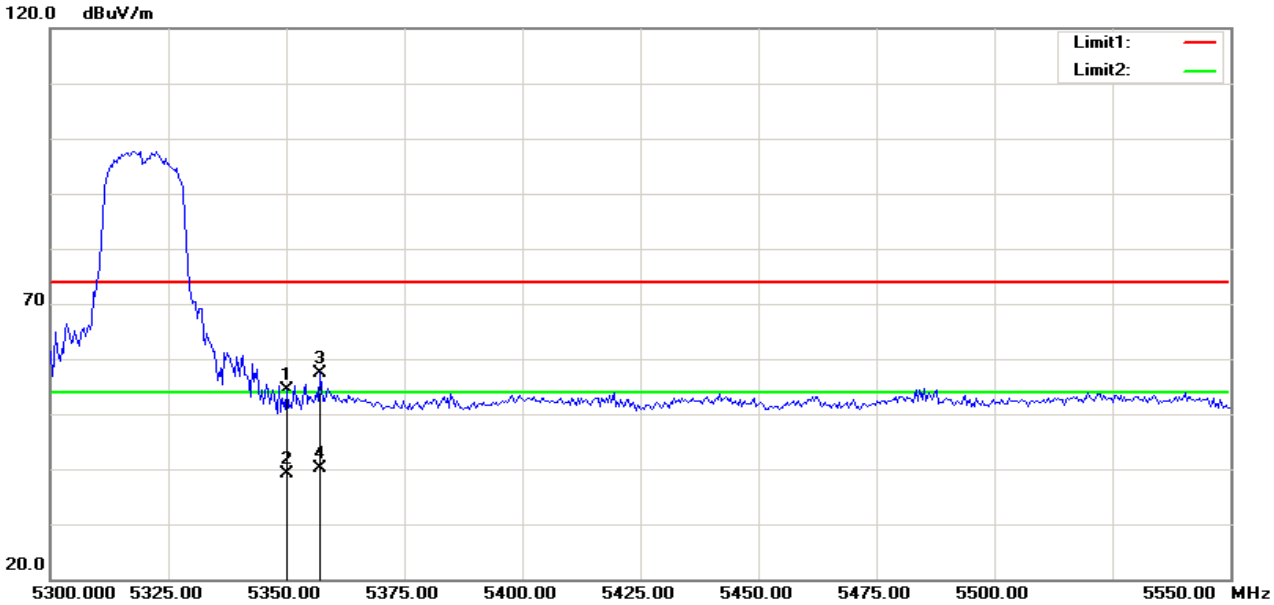


No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	5148.413	64.94	-3.60	61.34	74.00	-12.66	100	247	peak

2	5148.413	43.75	-3.60	40.15	54.00	-13.85	100	249	AVG
3	5150.000	60.20	-3.60	56.60	74.00	-17.40	100	253	peak
4	5150.000	43.93	-3.60	40.33	54.00	-13.67	100	252	AVG

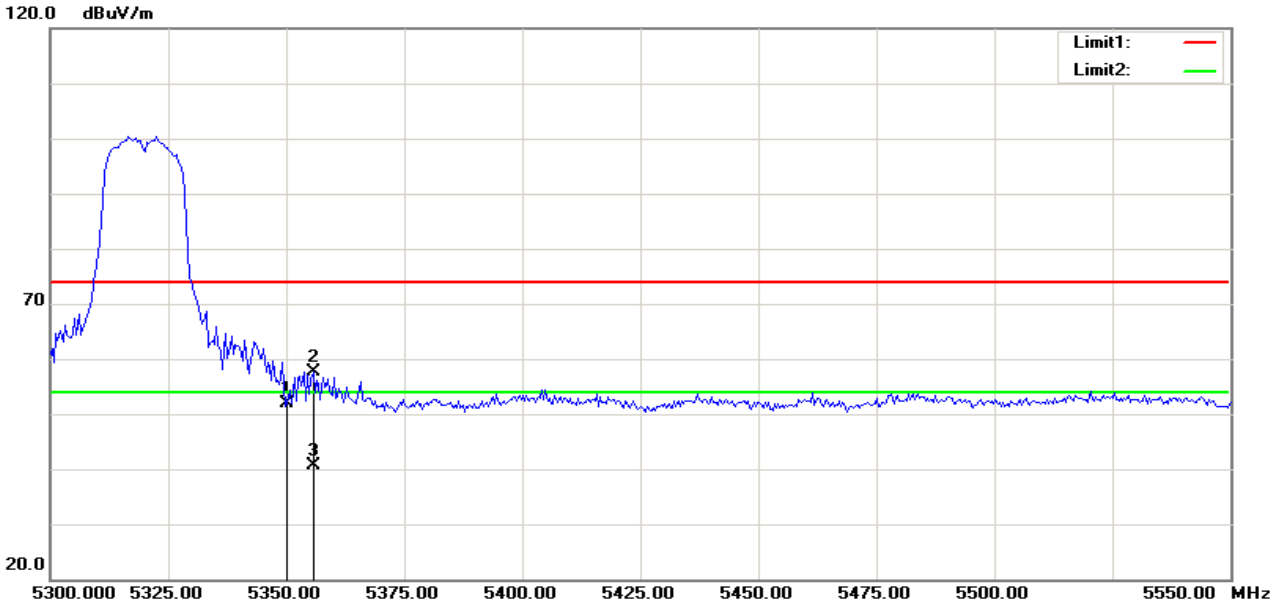
5320MHz

Polarity: Vertical



No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	5350.000	57.00	-2.66	54.34	74.00	-19.66	100	334	peak
2	5350.000	41.79	-2.66	39.13	54.00	-14.87	100	333	AVG
3	5357.292	60.05	-2.63	57.42	74.00	-16.58	100	284	peak
4	5357.292	42.88	-2.63	40.25	54.00	-13.75	100	283	AVG

Polarity: Horizontal

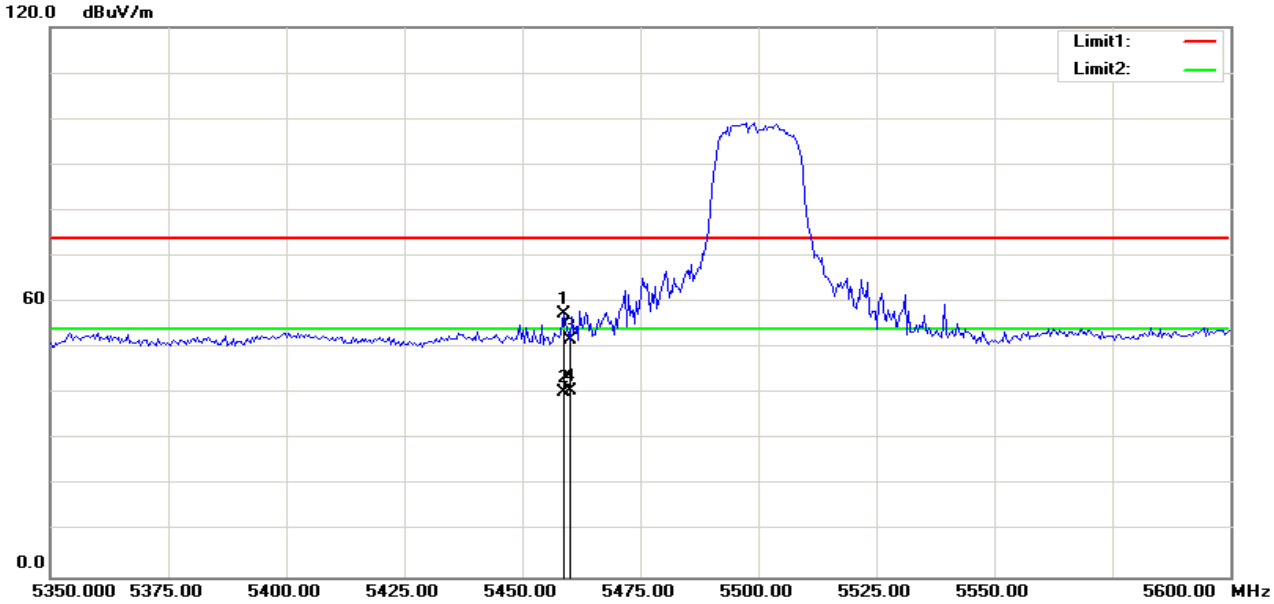


No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	

1	5350.000	54.54	-2.66	51.88	74.00	-22.12	100	205	peak
2	5355.689	60.34	-2.64	57.70	74.00	-16.30	100	173	peak
3	5355.689	43.39	-2.64	40.75	54.00	-13.25	100	172	AVG

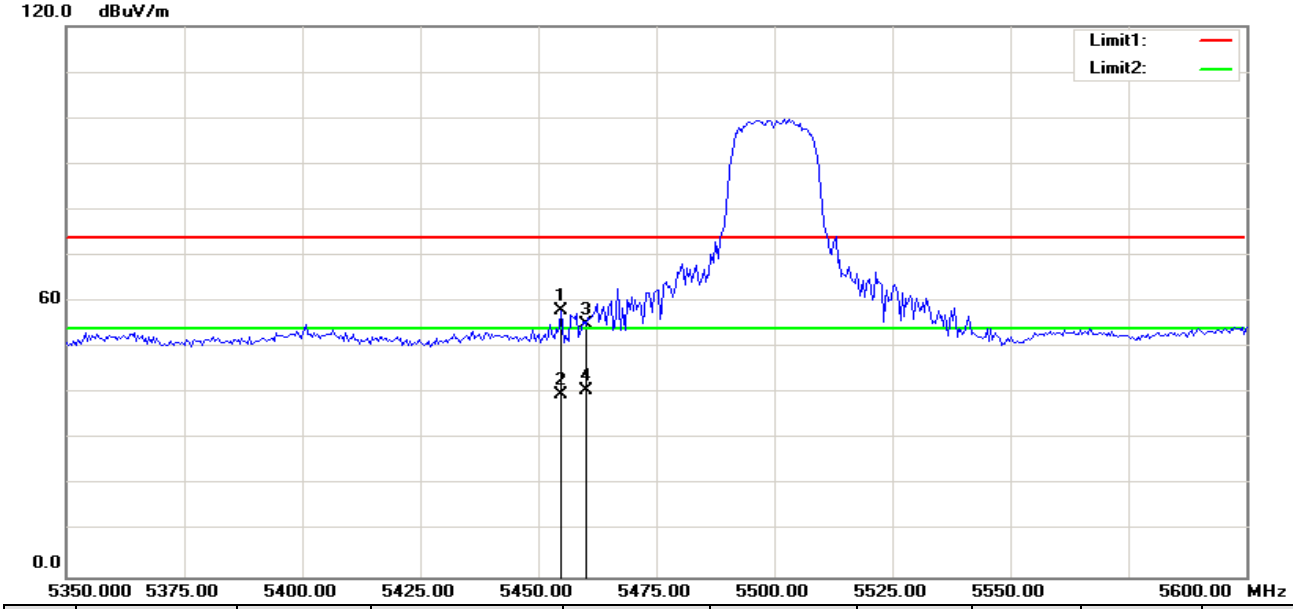
5500MHz

Polarity: Vertical



No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	5458.974	59.54	-2.15	57.39	74.00	-16.61	100	219	peak
2	5458.974	42.65	-2.15	40.50	54.00	-13.50	100	217	AVG
3	5460.000	53.85	-2.14	51.71	74.00	-22.29	100	216	peak
4	5460.000	42.80	-2.14	40.66	54.00	-13.34	100	216	AVG

Polarity: Horizontal

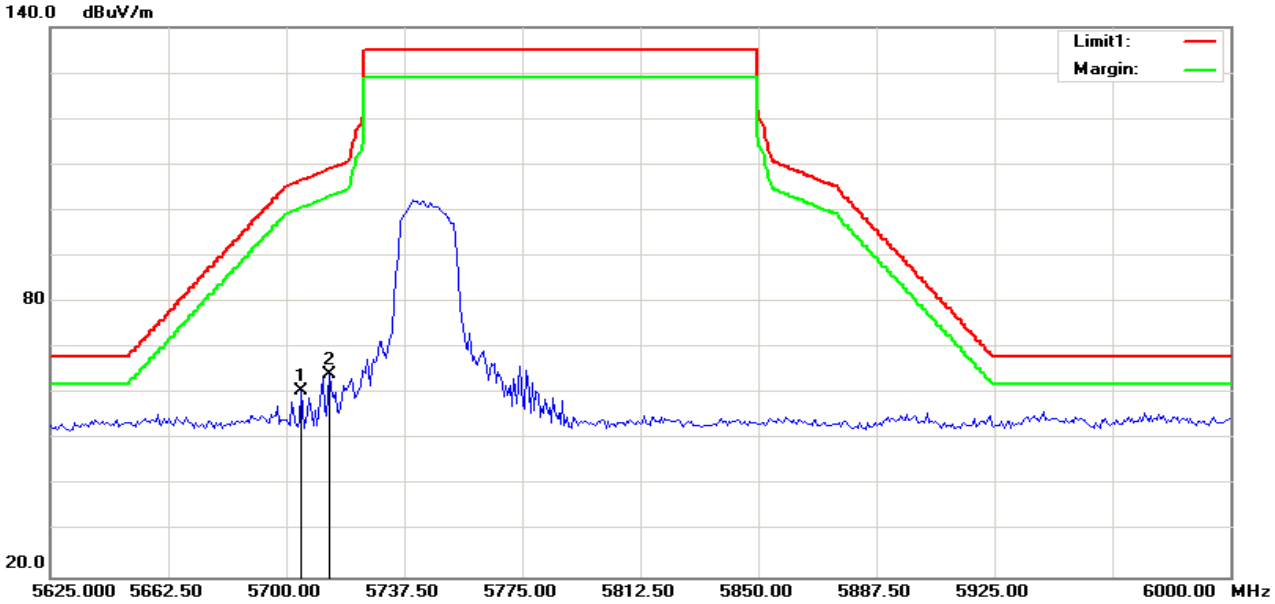


No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	5454.968	60.08	-2.17	57.91	74.00	-16.09	100	201	peak
2	5454.968	41.84	-2.17	39.67	54.00	-14.33	100	202	AVG
3	5460.000	57.32	-2.14	55.18	74.00	-18.82	100	203	peak

4	5460.000	42.80	-2.14	40.66	54.00	-13.34	100	205	AVG

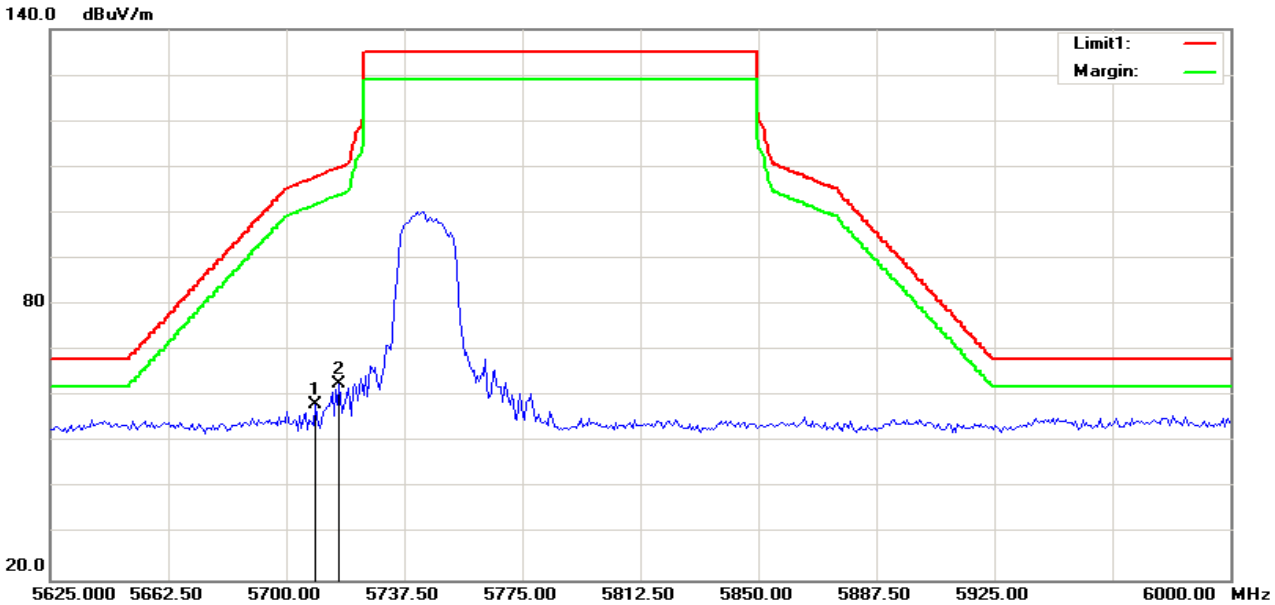
5745MHz

Polarity: Vertical



No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	5704.928	61.79	-0.99	60.80	106.58	-45.78	100	177	peak
2	5713.942	65.33	-0.95	64.38	109.10	-44.72	100	180	peak

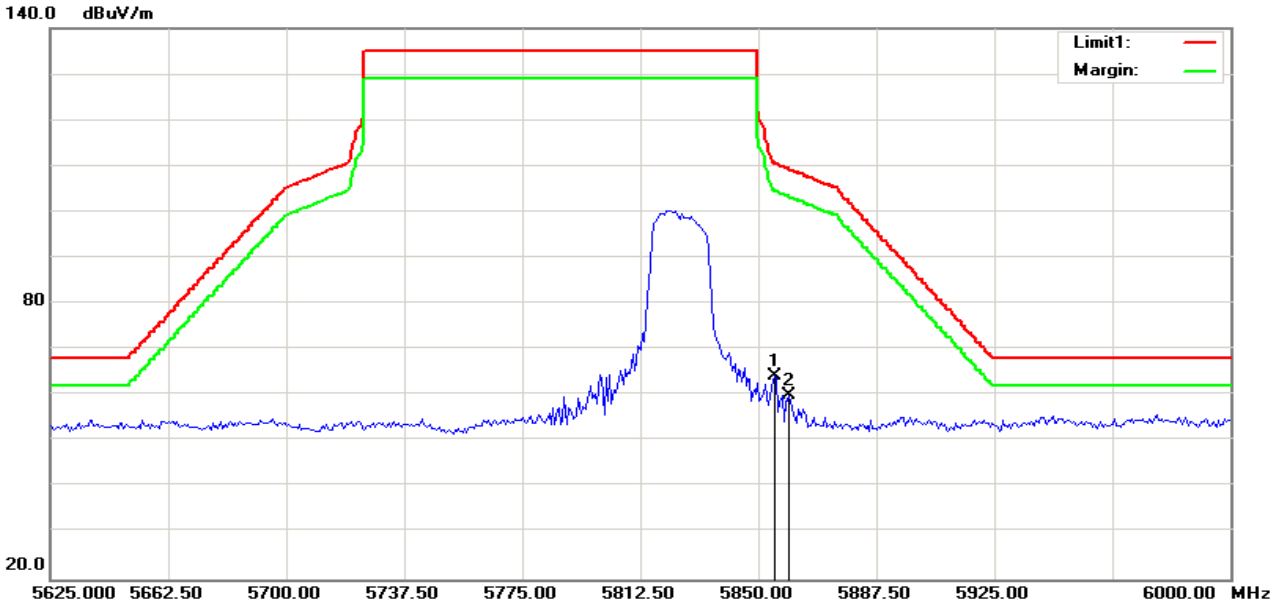
Polarity: Horizontal



No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	5709.135	59.09	-0.97	58.12	107.76	-49.64	100	204	peak
2	5716.947	63.69	-0.94	62.75	109.95	-47.20	100	206	peak

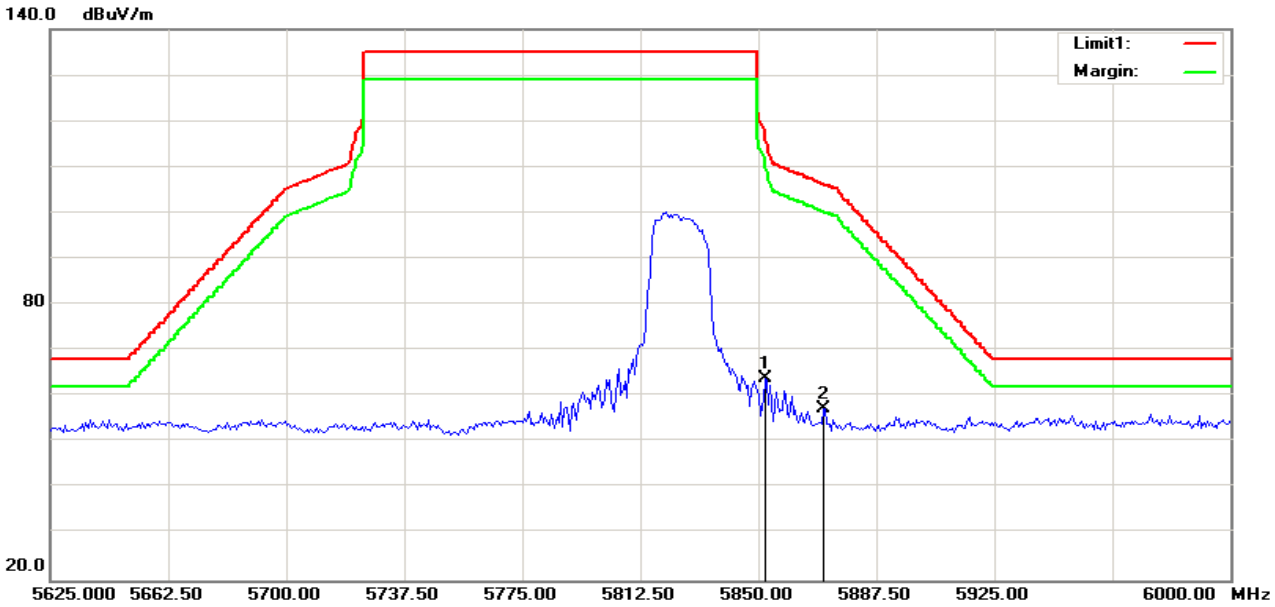
5825MHz

Polarity: Vertical



No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	5855.168	64.44	-0.29	64.15	110.75	-46.60	100	196	peak
2	5859.976	60.18	-0.27	59.91	109.41	-49.50	100	359	peak

Polarity: Horizontal



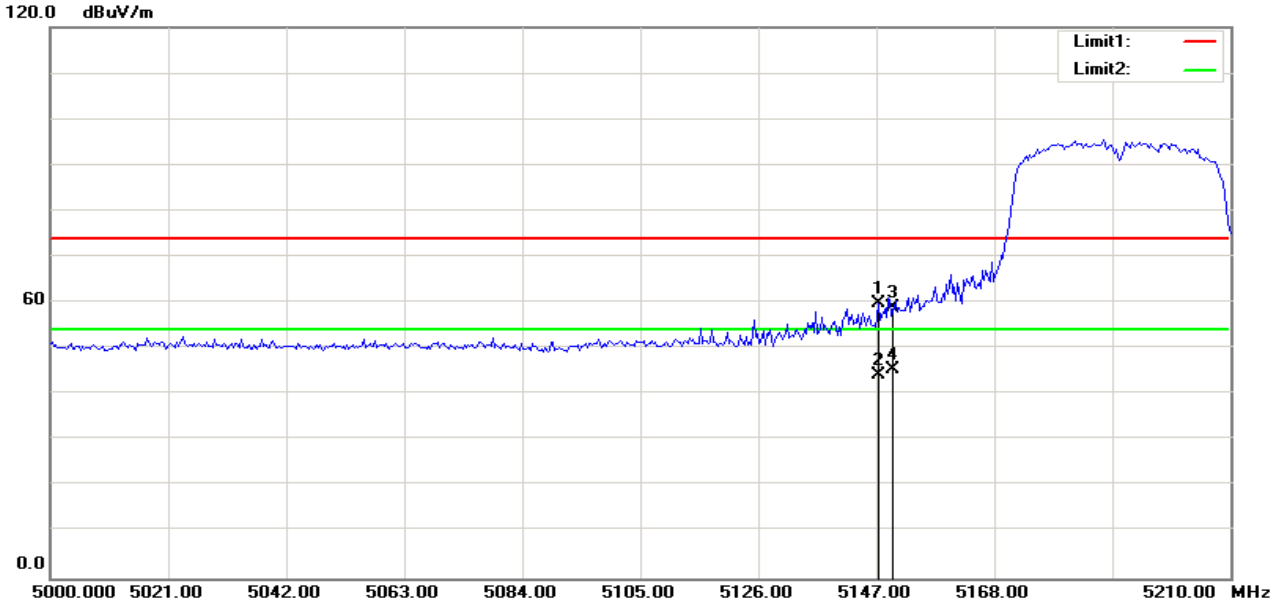
No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	

1	5852.163	64.13	-0.30	63.83	117.27	-53.44	100	223	peak
2	5870.793	57.59	-0.22	57.37	106.38	-49.01	100	228	peak

Band Edges (IEEE 802.11n HT40 mode)

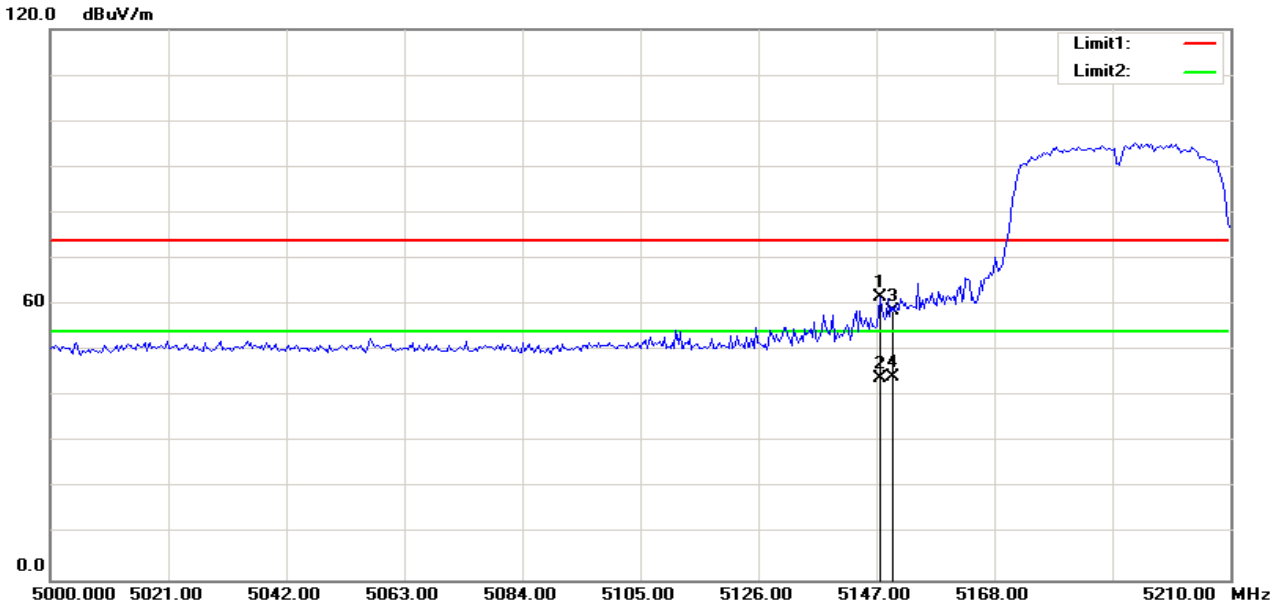
5190MHz

Polarity: Vertical



No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	5147.404	63.40	-3.61	59.79	74.00	-14.21	100	176	peak
2	5147.404	47.89	-3.61	44.28	54.00	-9.72	100	179	AVG
3	5150.000	62.67	-3.60	59.07	74.00	-14.93	100	185	peak
4	5150.000	49.12	-3.60	45.52	54.00	-8.48	100	180	AVG

Polarity: Horizontal

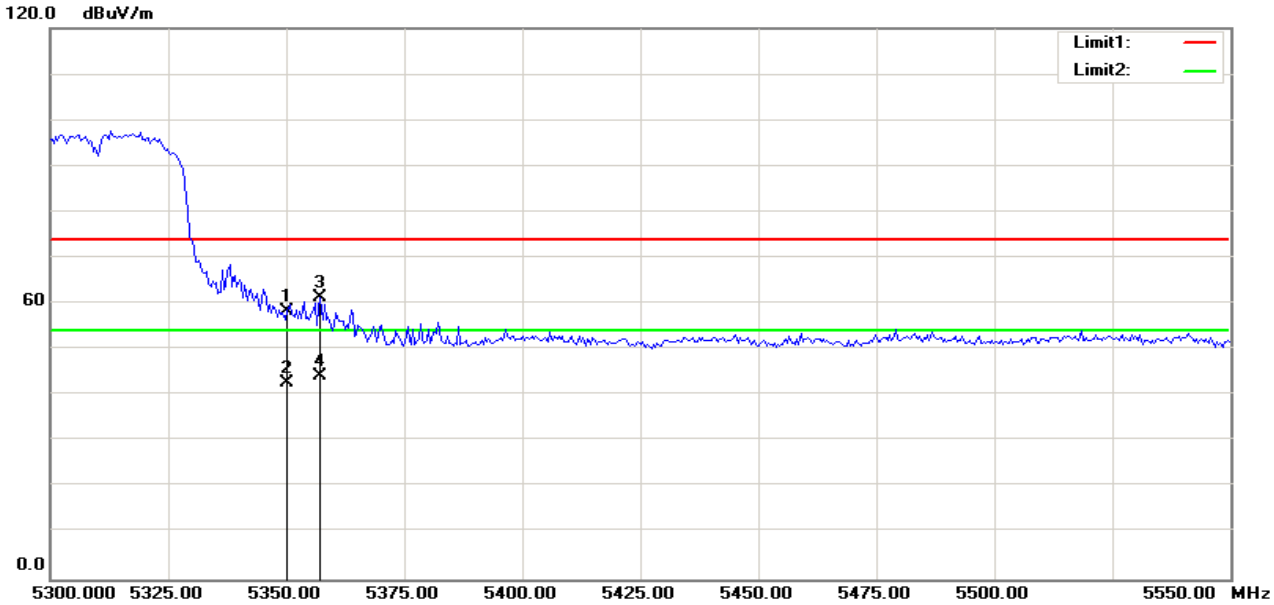


No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	5147.740	65.13	-3.61	61.52	74.00	-12.48	100	219	peak

2	5147.740	47.60	-3.61	43.99	54.00	-10.01	100	220	AVG
3	5150.000	62.23	-3.60	58.63	74.00	-15.37	100	246	peak
4	5150.000	48.00	-3.60	44.40	54.00	-9.60	100	250	AVG

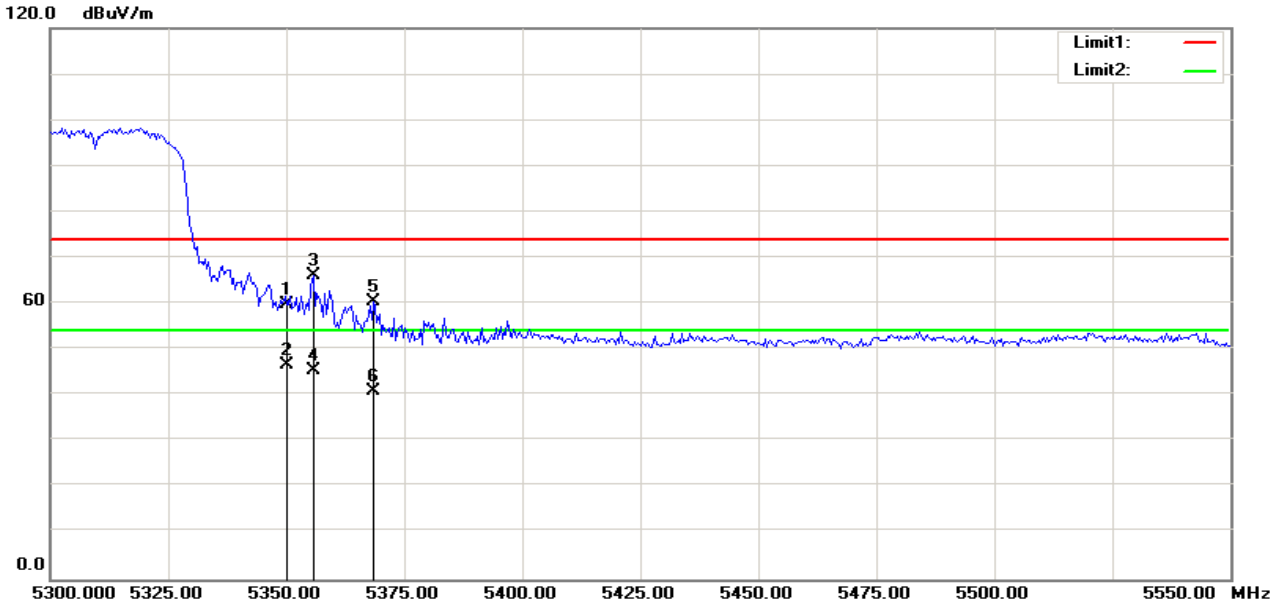
5310MHz

Polarity: Vertical



No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	5350.000	61.15	-2.66	58.49	74.00	-15.51	100	272	peak
2	5350.000	45.47	-2.66	42.81	54.00	-11.19	100	270	AVG
3	5357.292	63.84	-2.62	61.22	74.00	-12.78	100	214	peak
4	5357.292	46.90	-2.62	44.28	54.00	-9.72	100	215	AVG

Polarity: Horizontal

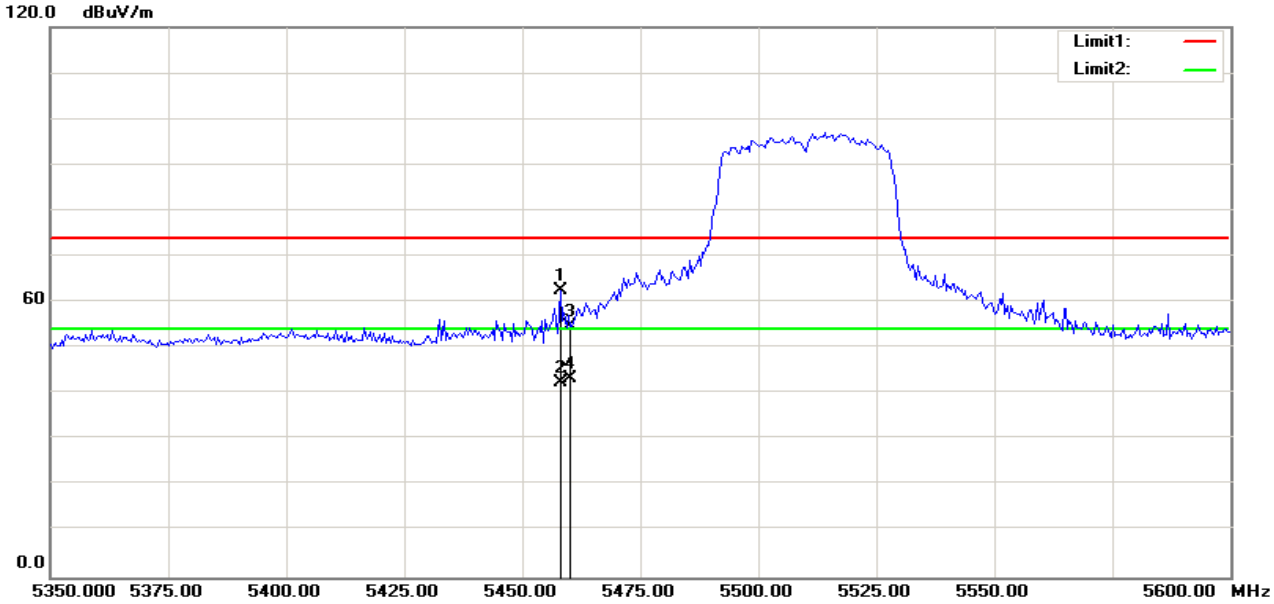


No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	5350.000	62.58	-2.66	59.92	74.00	-14.08	100	224	peak
2	5350.000	49.28	-2.66	46.62	54.00	-7.38	100	223	AVG

3	5355.689	68.65	-2.63	66.02	74.00	-7.98	100	220	peak
4	5355.689	48.23	-2.63	45.60	54.00	-8.40	100	221	AVG
5	5368.510	62.93	-2.57	60.36	74.00	-13.64	100	224	peak
6	5368.510	43.53	-2.57	40.96	54.00	-13.04	100	223	AVG

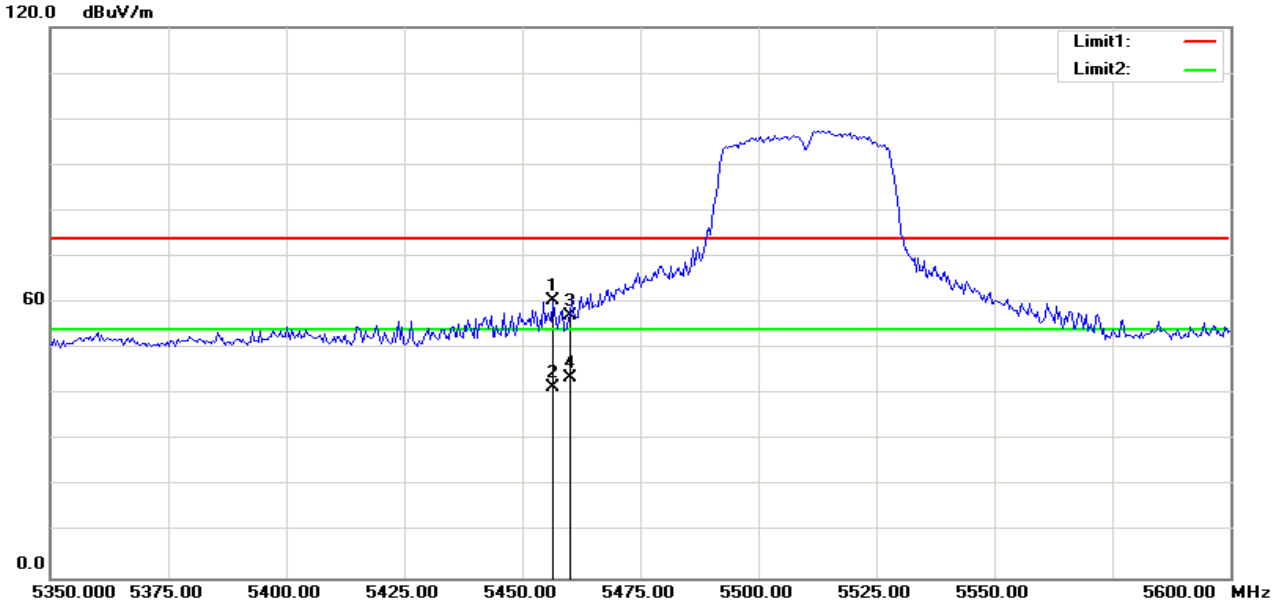
5510MHz

Polarity: Vertical



No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	5458.173	64.84	-2.15	62.69	74.00	-11.31	100	213	peak
2	5458.173	44.52	-2.15	42.37	54.00	-11.63	100	214	AVG
3	5460.000	57.04	-2.14	54.90	74.00	-19.10	100	216	peak
4	5460.000	45.61	-2.14	43.47	54.00	-10.53	100	217	AVG

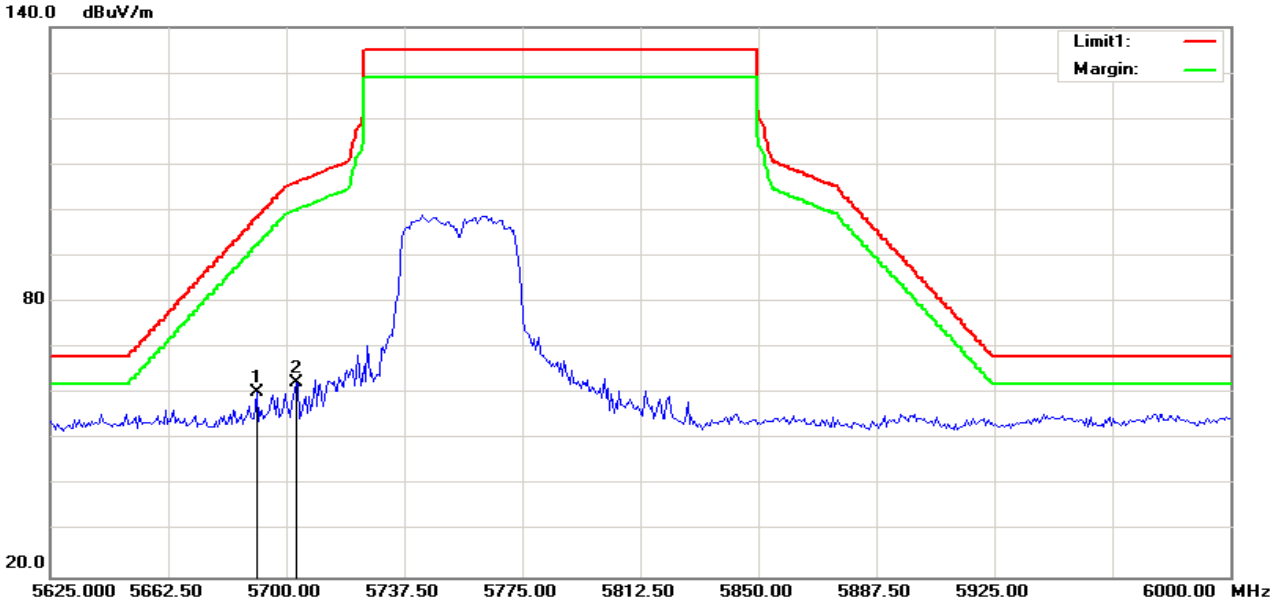
Polarity: Horizontal



No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	5456.570	62.57	-2.16	60.41	74.00	-13.59	100	217	peak
2	5456.570	43.66	-2.16	41.50	54.00	-12.50	100	216	AVG
3	5460.000	59.29	-2.14	57.15	74.00	-16.85	100	215	peak
4	5460.000	45.70	-2.14	43.56	54.00	-10.44	100	219	AVG

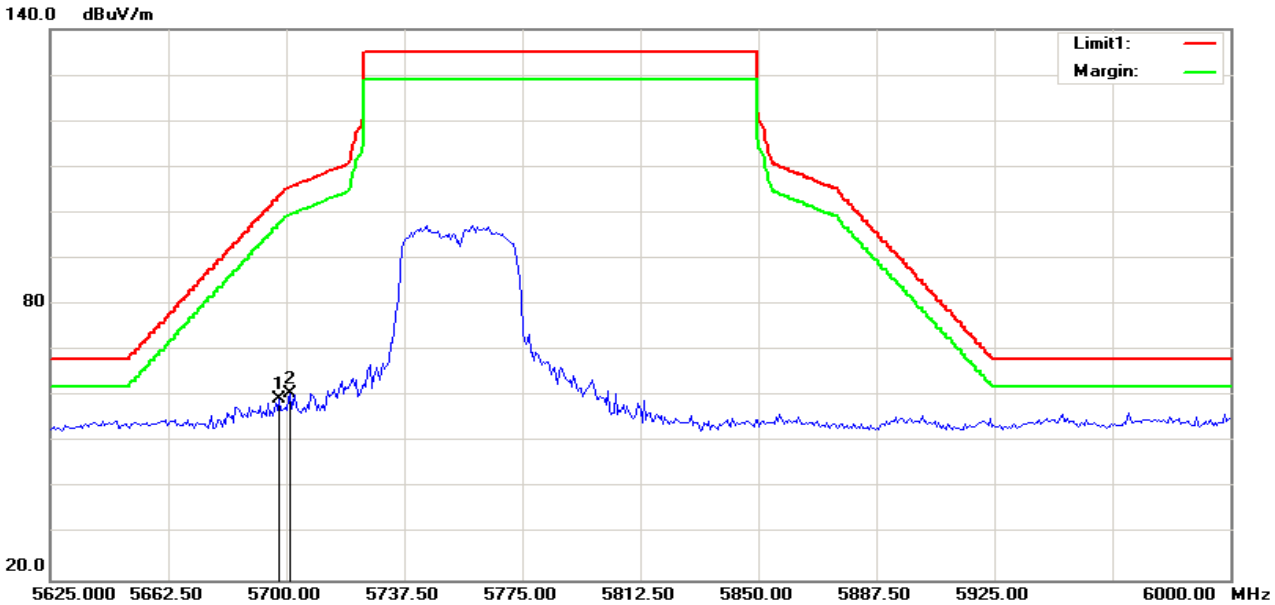
5755MHz

Polarity: Vertical



No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	5690.505	61.42	-1.06	60.36	98.17	-37.81	100	175	peak
2	5703.125	63.54	-1.00	62.54	106.08	-43.54	100	178	peak

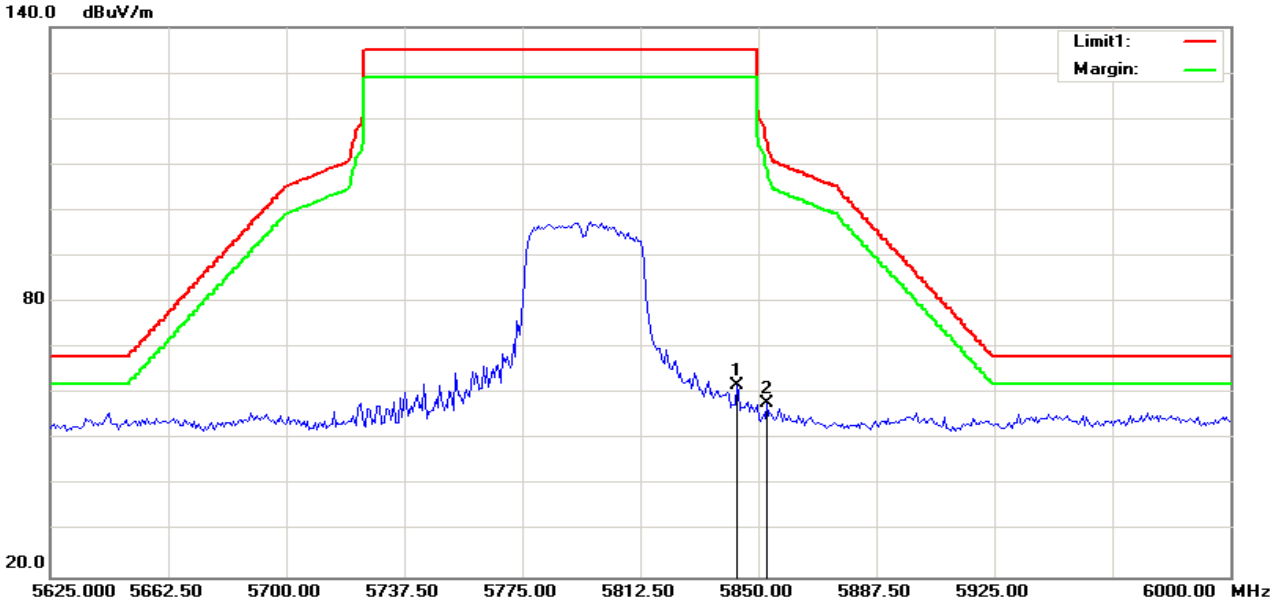
Polarity: Horizontal



No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	5697.716	60.49	-1.03	59.46	103.51	-44.05	100	203	peak
2	5701.322	61.78	-1.01	60.77	105.57	-44.80	100	159	peak

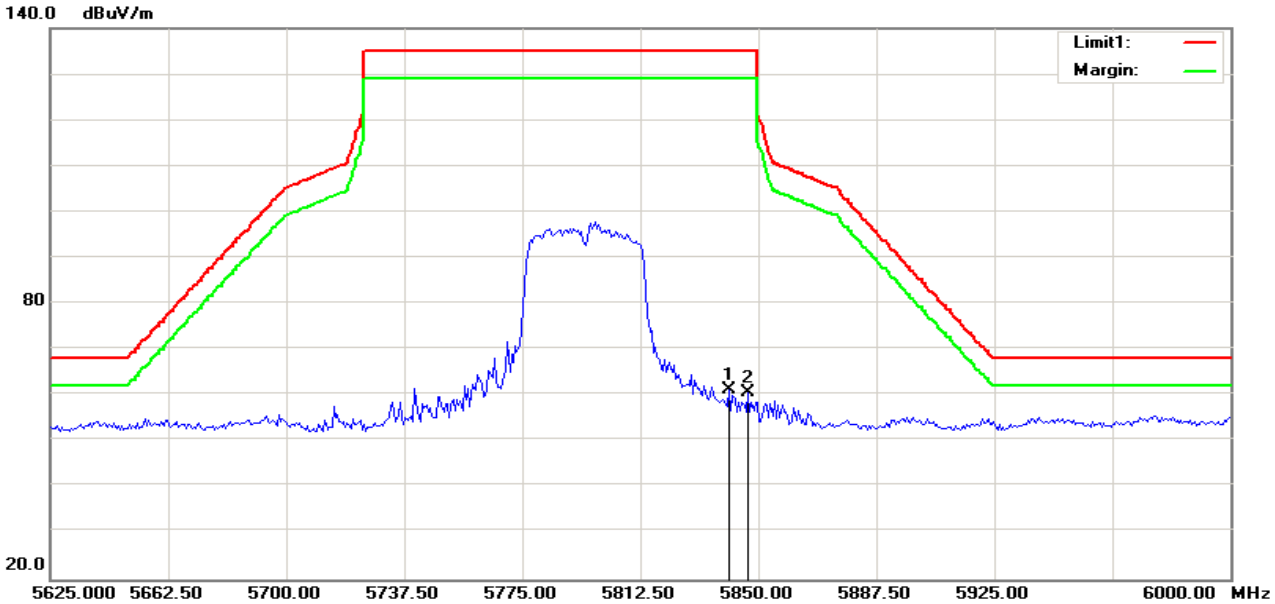
5795MHz

Polarity: Vertical



No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	5843.149	62.23	-0.35	61.88	135.00	-73.12	100	7	peak
2	5852.764	58.17	-0.30	57.87	115.90	-58.03	100	9	peak

Polarity: Horizontal

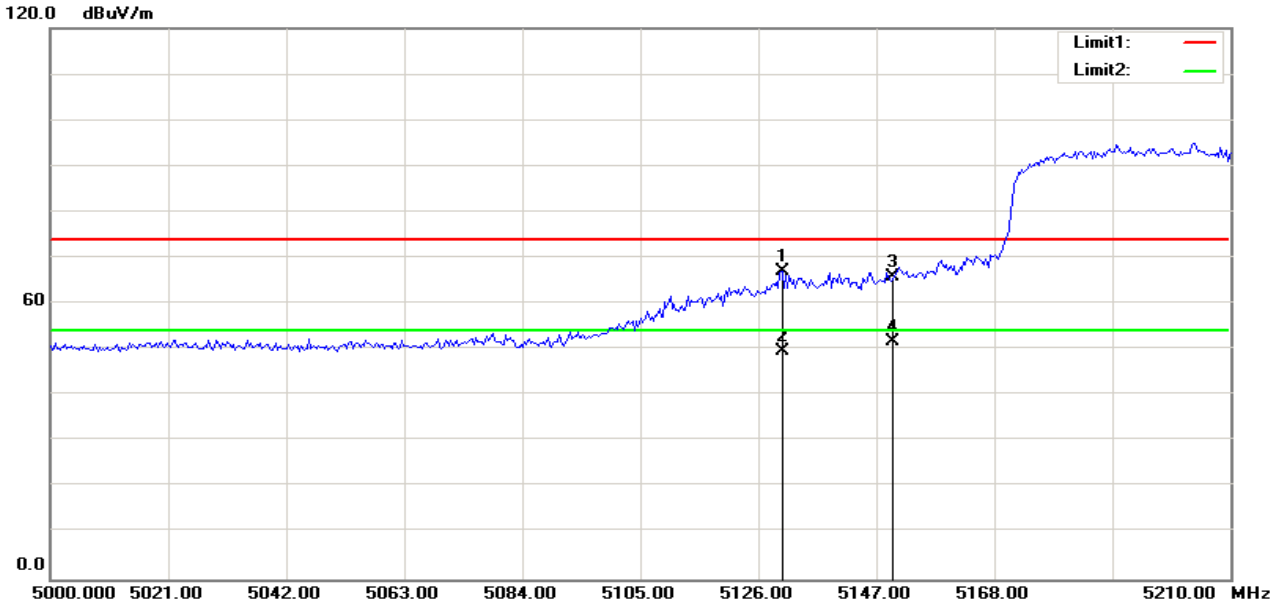


No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	5840.745	61.63	-0.36	61.27	135.00	-73.73	100	257	peak
2	5846.755	60.90	-0.33	60.57	135.00	-74.43	100	222	peak

Band Edges (IEEE 802.11ac HT80 mode)

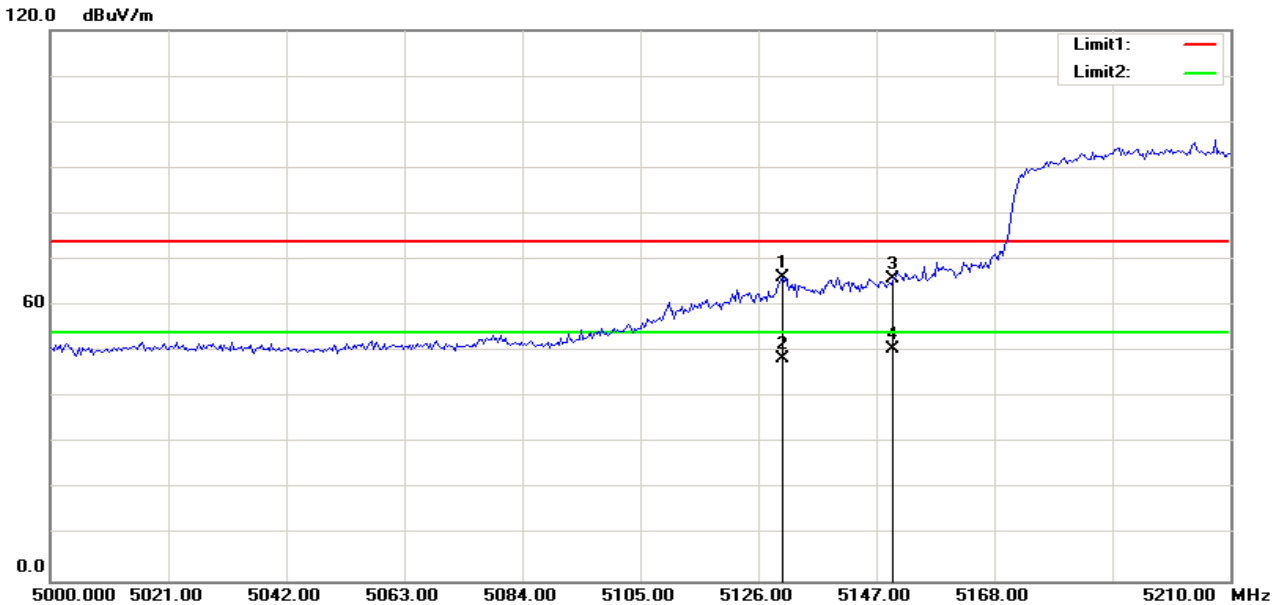
5210MHz

Polarity: Vertical



No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	5130.240	70.81	-3.69	67.12	74.00	-6.88	100	179	peak
2	5130.240	53.46	-3.69	49.77	54.00	-4.23	100	178	AVG
3	5150.000	69.35	-3.60	65.75	74.00	-8.25	100	182	peak
4	5150.000	55.25	-3.60	51.65	54.00	-2.35	100	180	AVG

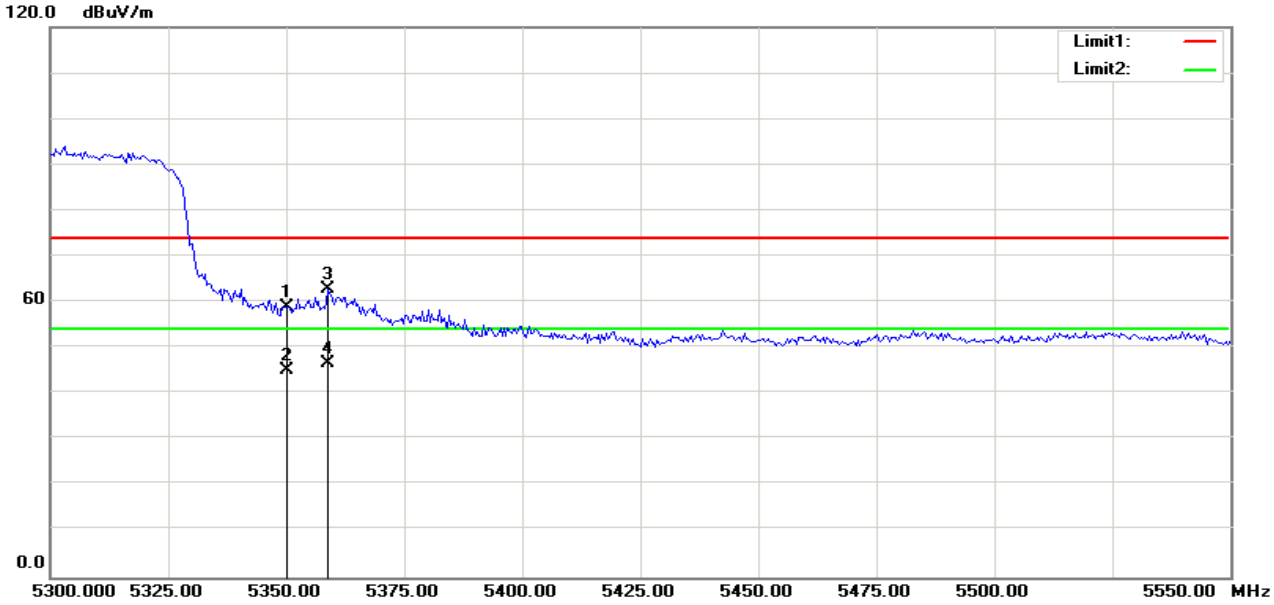
Polarity: Horizontal



No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	5130.240	69.94	-3.69	66.25	74.00	-7.75	100	216	peak
2	5130.240	52.27	-3.69	48.58	54.00	-5.42	100	218	AVG
3	5150.000	69.49	-3.60	65.89	74.00	-8.11	100	253	peak
4	5150.000	54.09	-3.60	50.49	54.00	-3.51	100	255	AVG

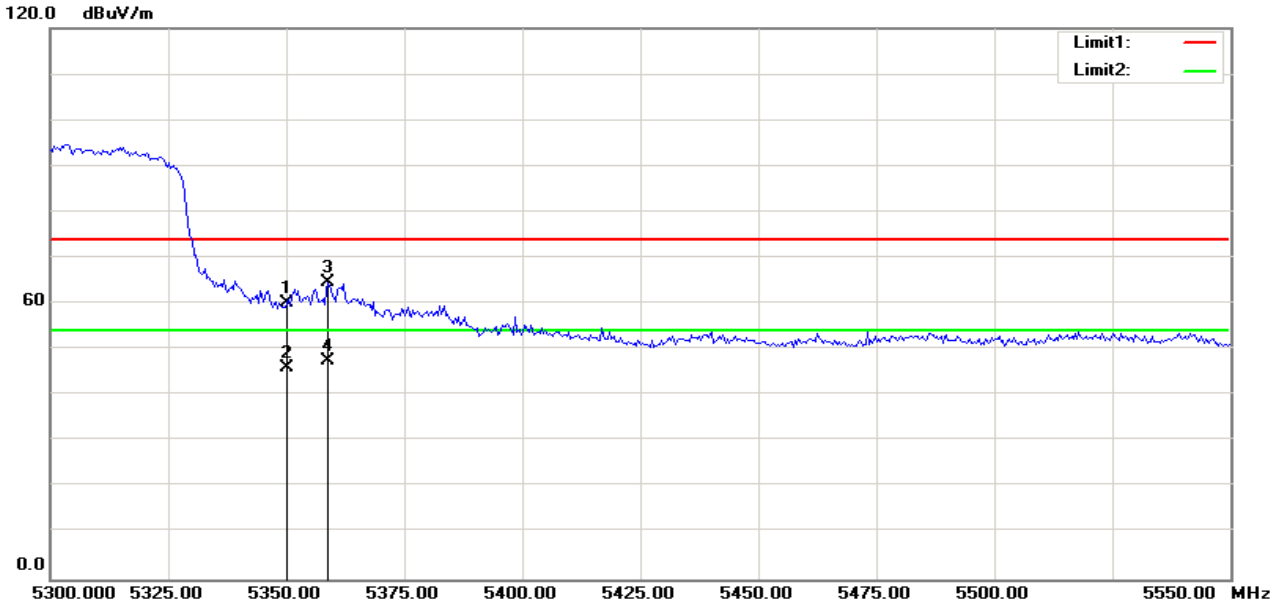
5290MHz

Polarity: Vertical



No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	5350.000	61.50	-2.66	58.84	74.00	-15.16	100	214	peak
2	5350.000	47.81	-2.66	45.15	54.00	-8.85	100	214	AVG
3	5358.894	65.56	-2.62	62.94	74.00	-11.06	100	180	peak
4	5358.894	49.27	-2.62	46.65	54.00	-7.35	100	176	AVG

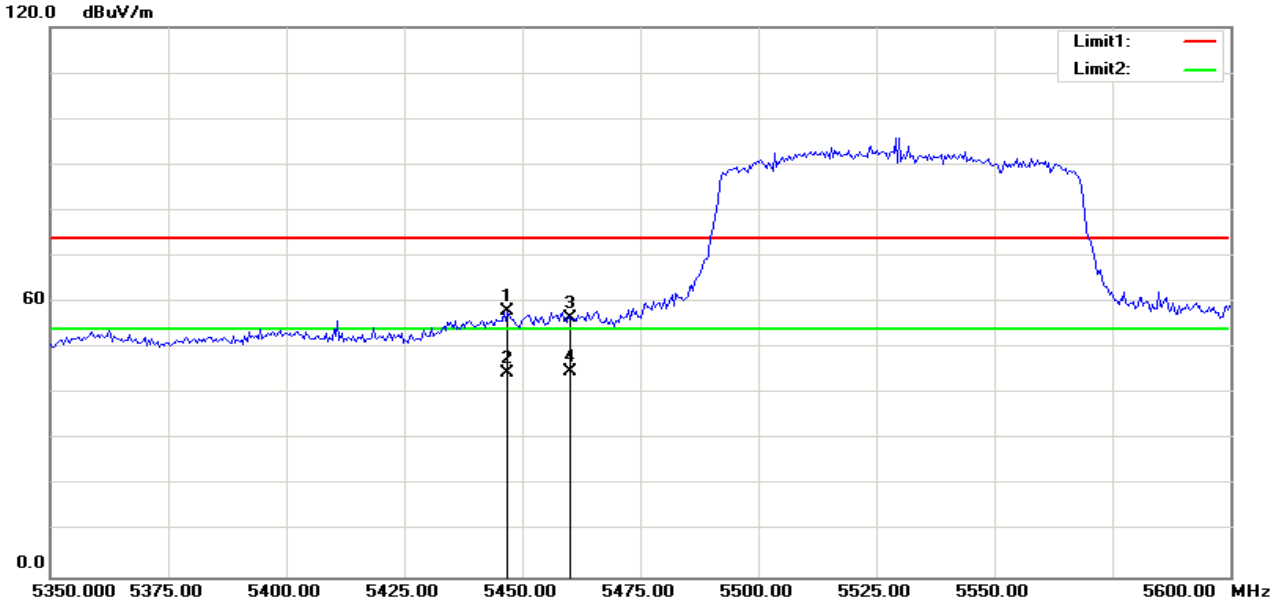
Polarity: Horizontal



No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	5350.000	62.95	-2.66	60.29	74.00	-13.71	100	204	peak
2	5350.000	48.72	-2.66	46.06	54.00	-7.94	100	206	AVG
3	5358.894	67.28	-2.62	64.66	74.00	-9.34	100	204	peak
4	5358.894	50.27	-2.62	47.65	54.00	-6.35	100	203	AVG

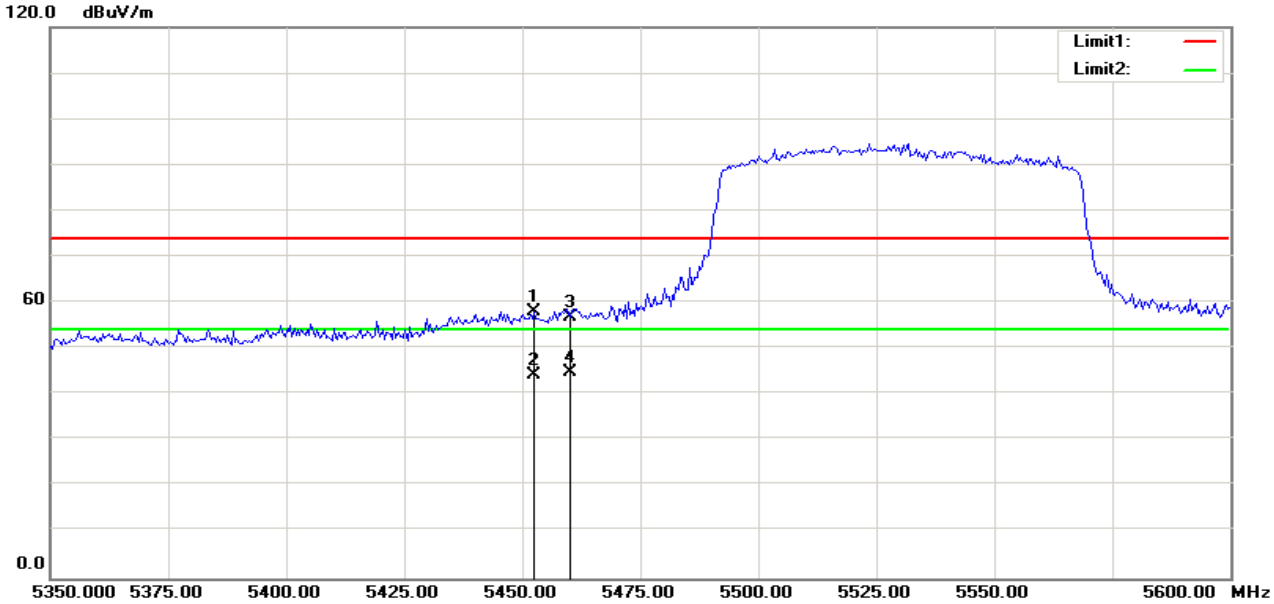
5530MHz

Polarity: Vertical



No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	5446.955	60.32	-2.20	58.12	74.00	-15.88	100	214	peak
2	5446.955	46.84	-2.20	44.64	54.00	-9.36	100	216	AVG
3	5460.000	58.81	-2.14	56.67	74.00	-17.33	100	216	peak
4	5460.000	47.06	-2.14	44.92	54.00	-9.08	100	214	AVG

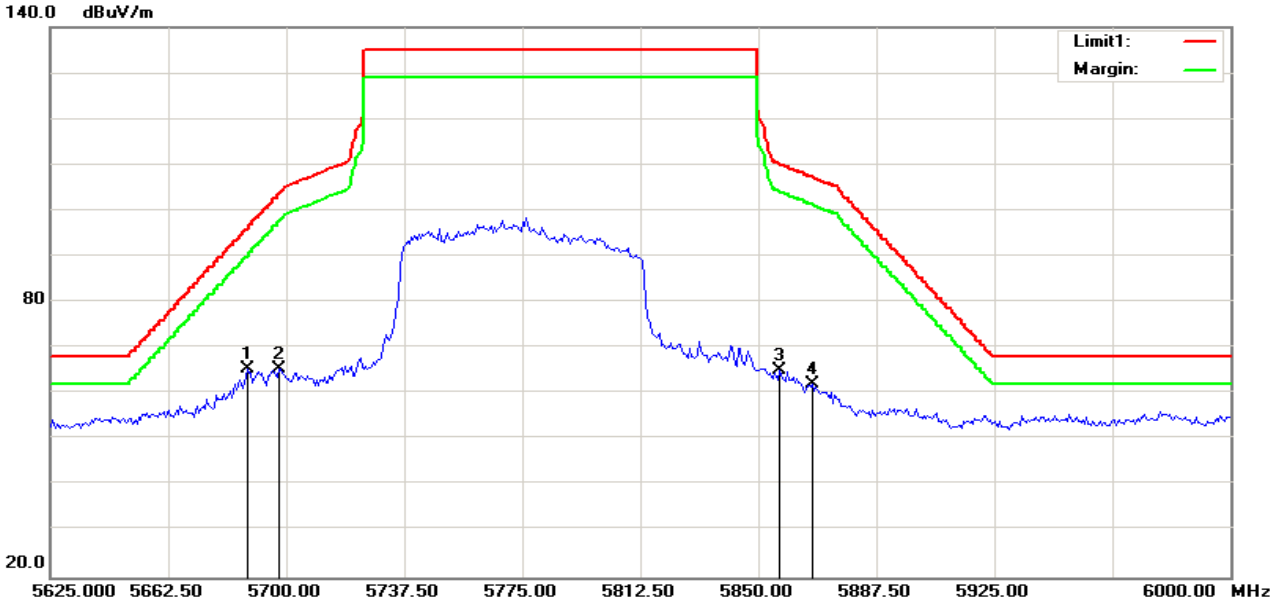
Polarity: Horizontal



No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	5452.564	60.30	-2.18	58.12	74.00	-15.88	100	221	peak
2	5452.564	46.56	-2.18	44.38	54.00	-9.62	100	220	AVG
3	5460.000	58.97	-2.14	56.83	74.00	-17.17	100	215	peak
4	5460.000	47.11	-2.14	44.97	54.00	-9.03	100	218	AVG

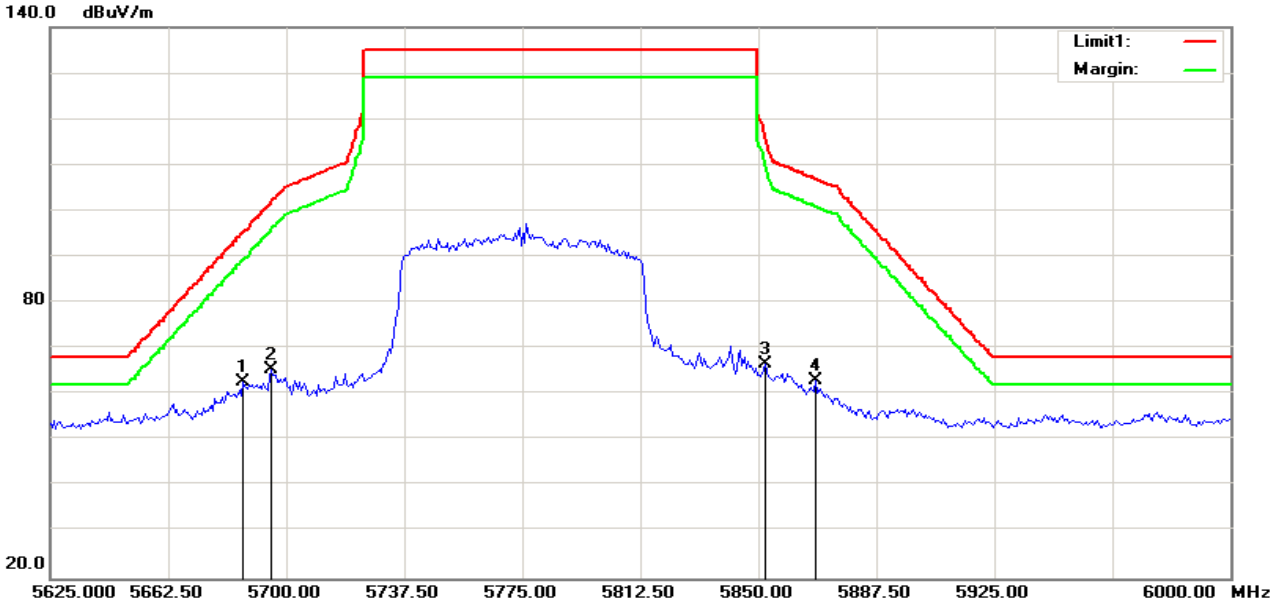
5775MHz

Polarity: Vertical



No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	5687.500	66.46	-1.08	65.38	95.95	-30.57	100	176	peak
2	5697.716	66.58	-1.03	65.55	103.51	-37.96	100	178	peak
3	5856.971	65.48	-0.28	65.20	110.25	-45.05	100	180	peak
4	5867.188	62.39	-0.23	62.16	107.39	-45.23	100	183	peak

Polarity: Horizontal



No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	5686.298	63.82	-1.08	62.74	95.06	-32.32	100	251	peak
2	5695.313	66.47	-1.04	65.43	101.73	-36.30	100	252	peak
3	5852.163	66.90	-0.30	66.60	117.27	-50.67	100	223	peak
4	5868.389	63.38	-0.23	63.15	107.05	-43.90	100	227	peak

Below 30MHz

The interference of the frequency value is lower than the limit below 20 db, measured as the background noise values and will not be recorded.

30MHz-1GHz

Operation Mode:	Normal Link	**Test Date:**	2016-9-7
Temperature:	25°C	Tested by:	James.Yan
Humidity:	48% RH	**Polarity:**	Ver. / Hor.

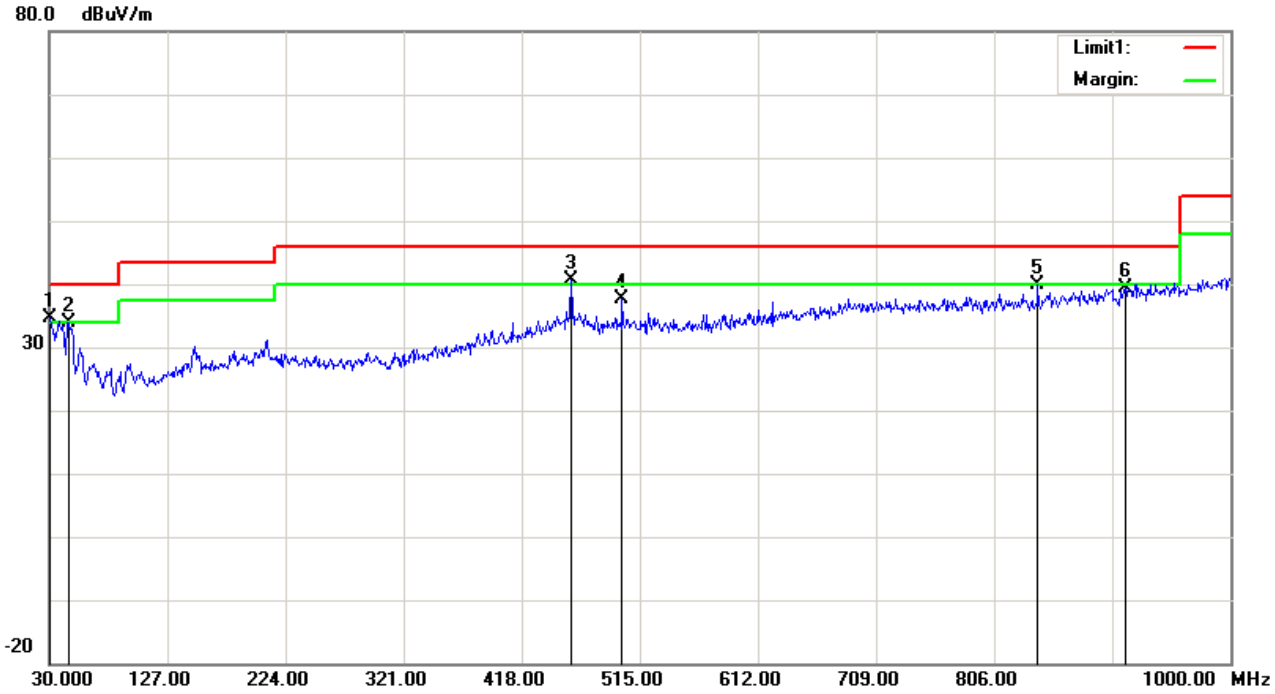
Frequency (MHz)	Ant. Pol. (H/V)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
30.9700	V	13.08	21.62	34.70	40.00	-5.30	Peak
46.4900	V	20.64	13.36	34.00	40.00	-6.00	Peak
458.7400	V	19.25	21.49	40.74	46.00	-5.26	Peak
500.4500	V	15.38	22.19	37.57	46.00	-8.43	Peak
841.8900	V	13.98	25.80	39.78	46.00	-6.22	Peak
913.6700	V	12.50	26.81	39.31	46.00	-6.69	Peak
30.0000	H	11.72	22.10	33.82	40.00	-6.18	Peak
208.4800	H	18.05	16.39	34.44	43.50	-9.06	Peak
382.1100	H	18.68	19.78	38.46	46.00	-7.54	Peak
540.2200	H	13.94	22.47	36.41	46.00	-9.59	Peak
947.6200	H	12.92	27.41	40.33	46.00	-5.67	Peak
996.1200	H	14.51	28.26	42.77	54.00	-11.23	Peak

Remark:

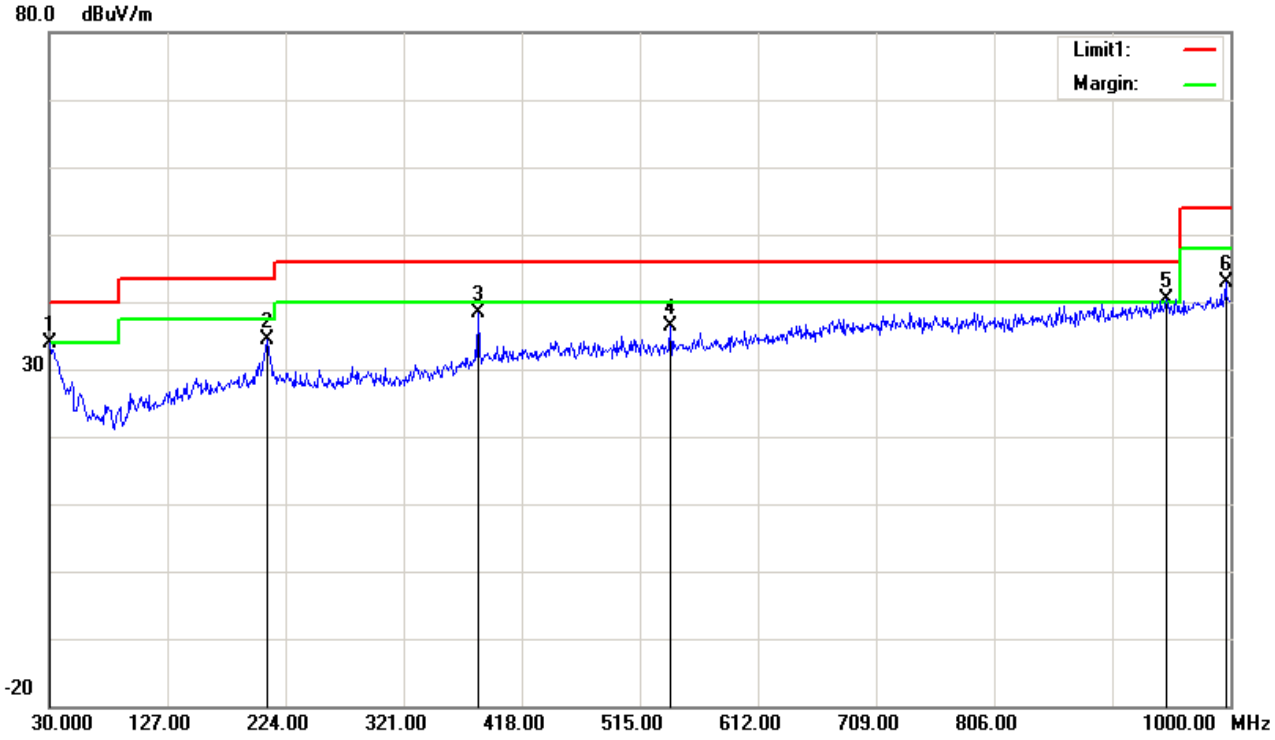
1. Measuring frequencies from 30 MHz to the 1GHz.(no emission found from the lowest internal used/generated frequency to 30MHz)
2. Radiated emissions measured were made with an instrument using peak/quasi-peak detector mode.
3. Quasi-peak test would be performed if the peak result were greater than the quasi-peak limit or as required by the applicant.
4. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
5. Margin (dB) = Remark result (dBuV/m) – Quasi-peak limit (dBuV/m).

Test Plots:

Vertical



Horizontal

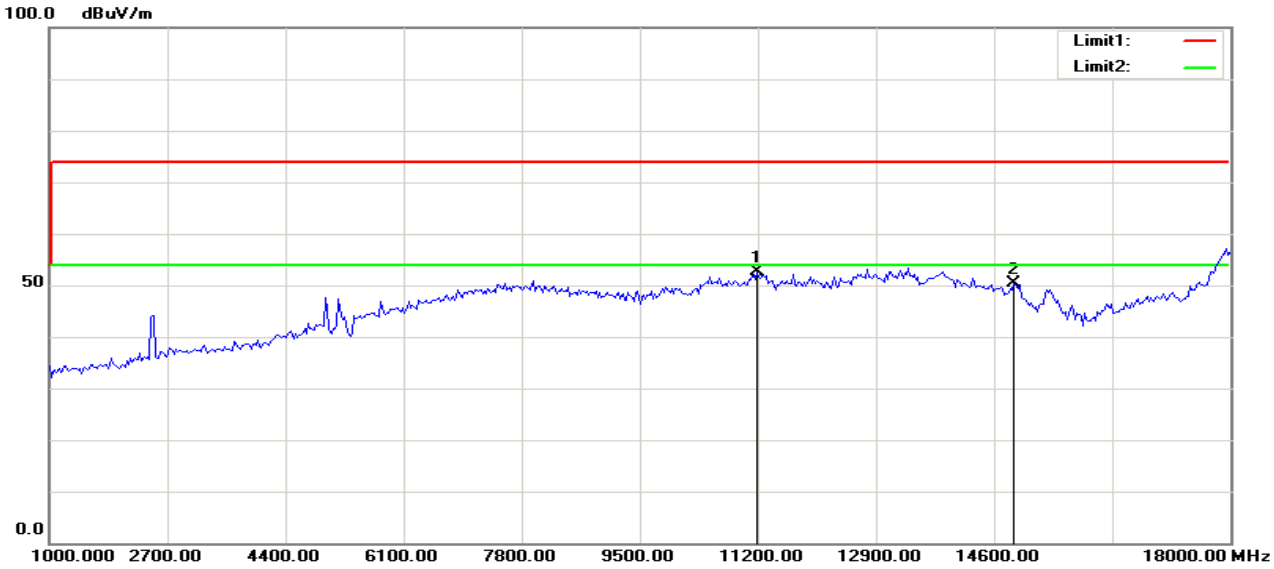


Above 1 GHz

Band I:5150MHz~5250MHz

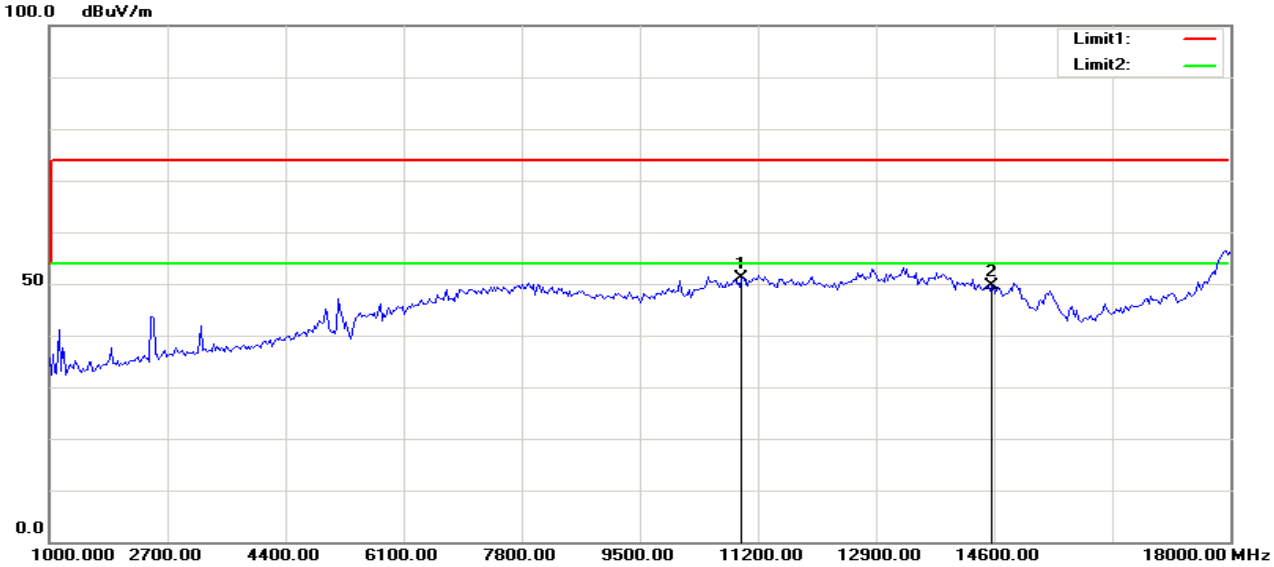
Operation Mode:	Tx / IEEE 802.11a mode CH Low	**Test Date:**	2016-9-4
Temperature:	25°C	**Tested by:**	James.Yan
Humidity:	55% RH	**Polarity:**	Ver. / Hor.

Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	11189.103	42.37	10.30	52.67	74.00	-21.33	100	271	peak
2	14894.231	38.98	11.32	50.30	74.00	-23.70	100	358	peak
3	N/A								

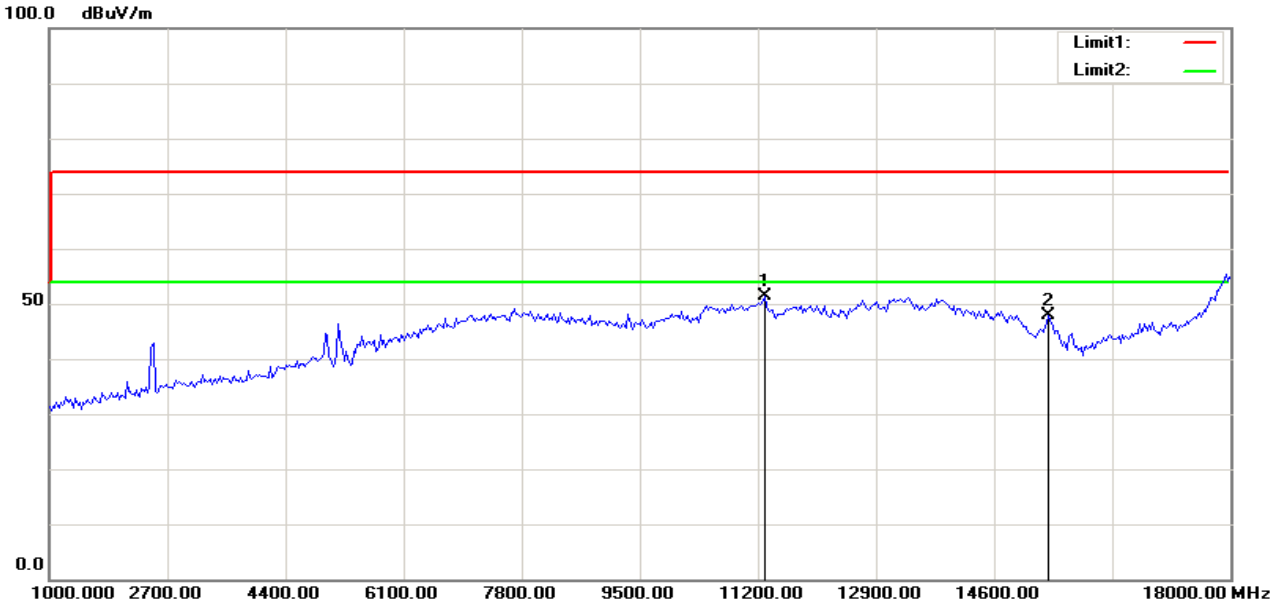
Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	10971.154	40.78	10.23	51.01	74.00	-22.99	100	0	peak
2	14567.308	37.98	11.59	49.57	74.00	-24.43	100	172	peak
3	N/A								

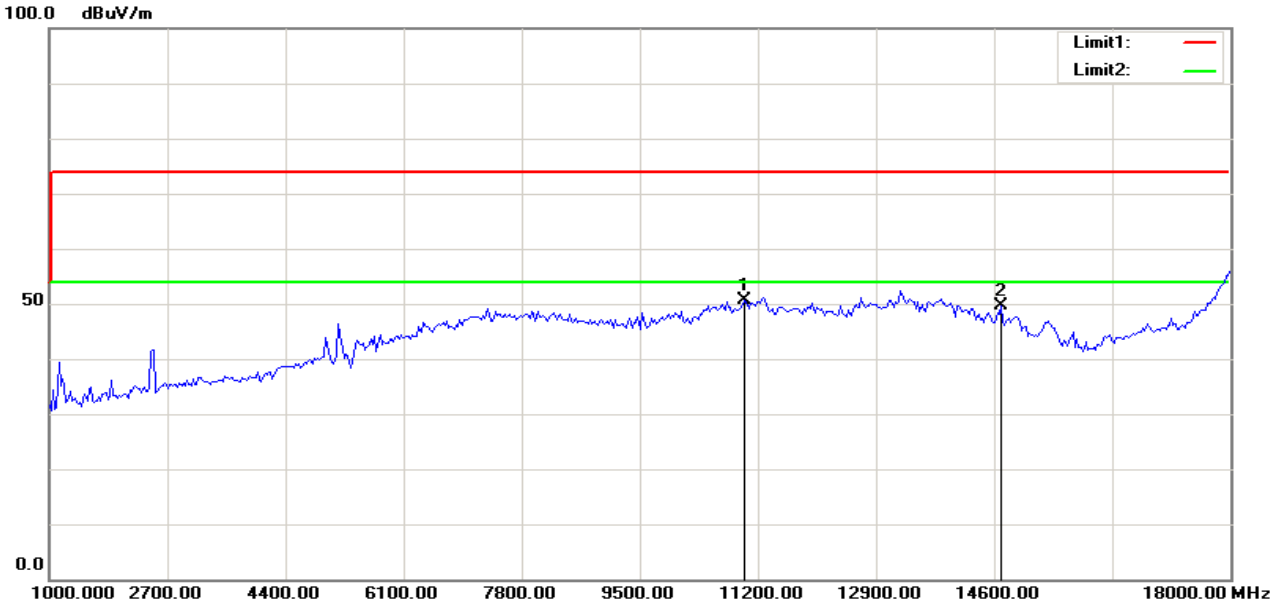
Operation Mode:	Tx / IEEE 802.11a mode CH Mid	Test Date:	2016-9-4
Temperature:	25°C	Tested by:	James.Yan
Humidity:	55% RH	Polarity:	Ver. / Hor.

Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	11298.077	41.03	10.30	51.33	74.00	-22.67	100	292	peak
2	15384.615	38.23	9.75	47.98	74.00	-26.02	100	308	peak
3	N/A								

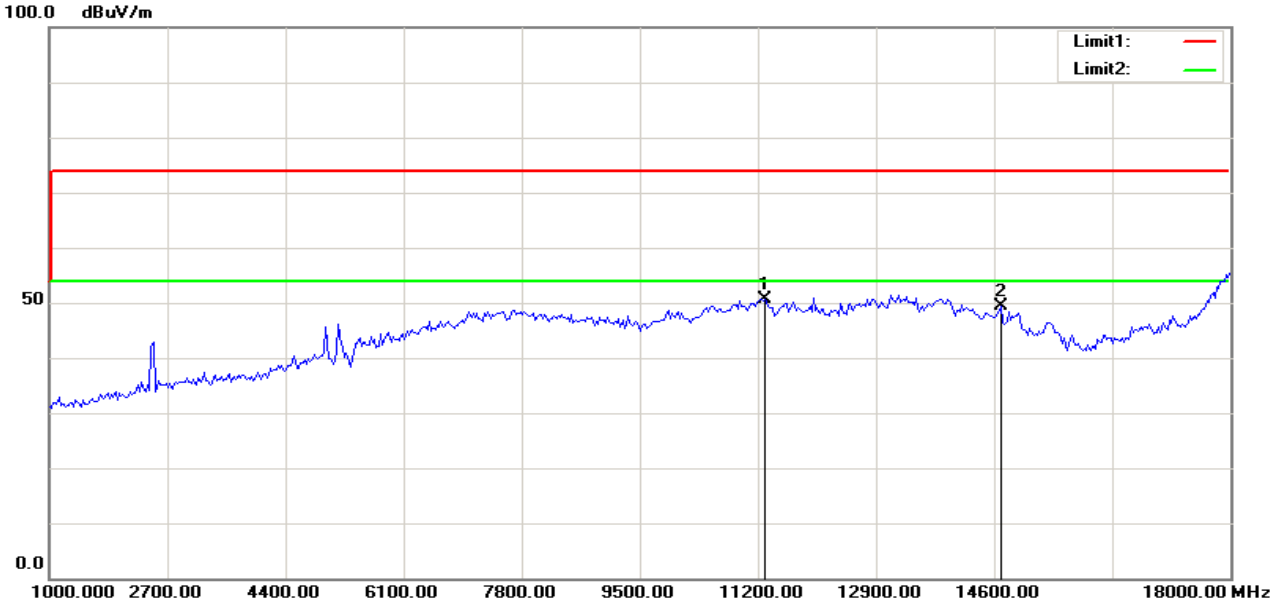
Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	10998.397	40.30	10.31	50.61	74.00	-23.39	100	247	peak
2	14703.526	38.09	11.48	49.57	74.00	-24.43	100	91	peak
3	N/A								

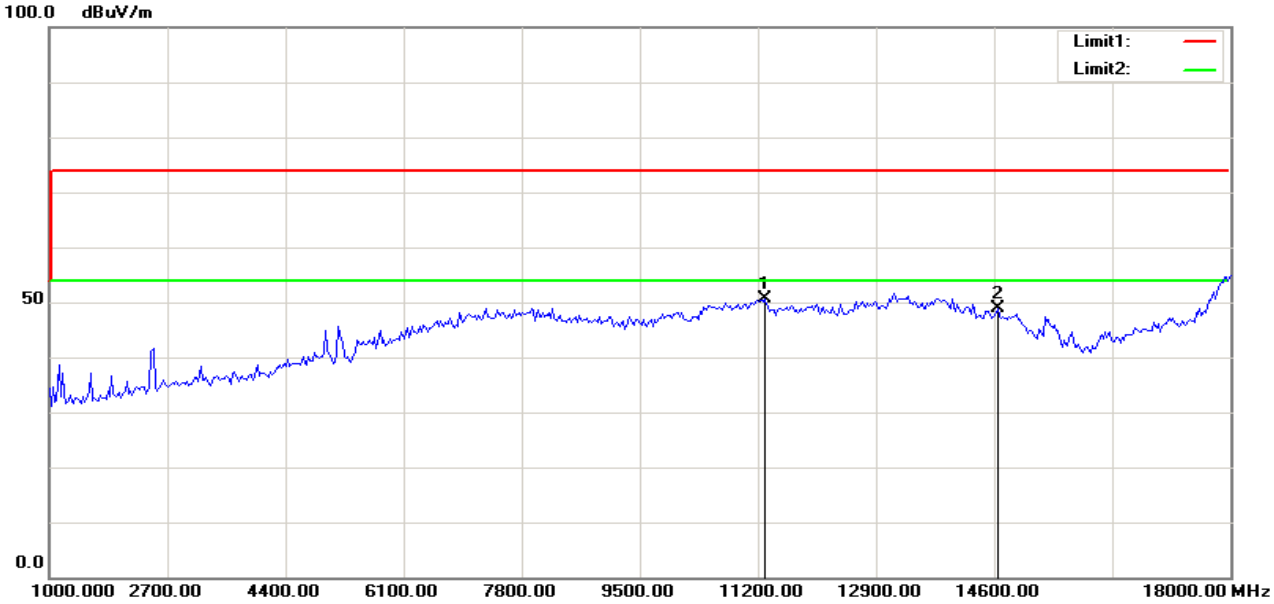
Operation Mode:	Tx / IEEE 802.11a mode CH High	Test Date:	2016-9-4
Temperature:	25°C	Tested by:	James.Yan
Humidity:	55% RH	Polarity:	Ver. / Hor.

Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	11298.077	40.32	10.30	50.62	74.00	-23.38	100	139	peak
2	14703.526	37.78	11.48	49.26	74.00	-24.74	100	224	peak
3	N/A								

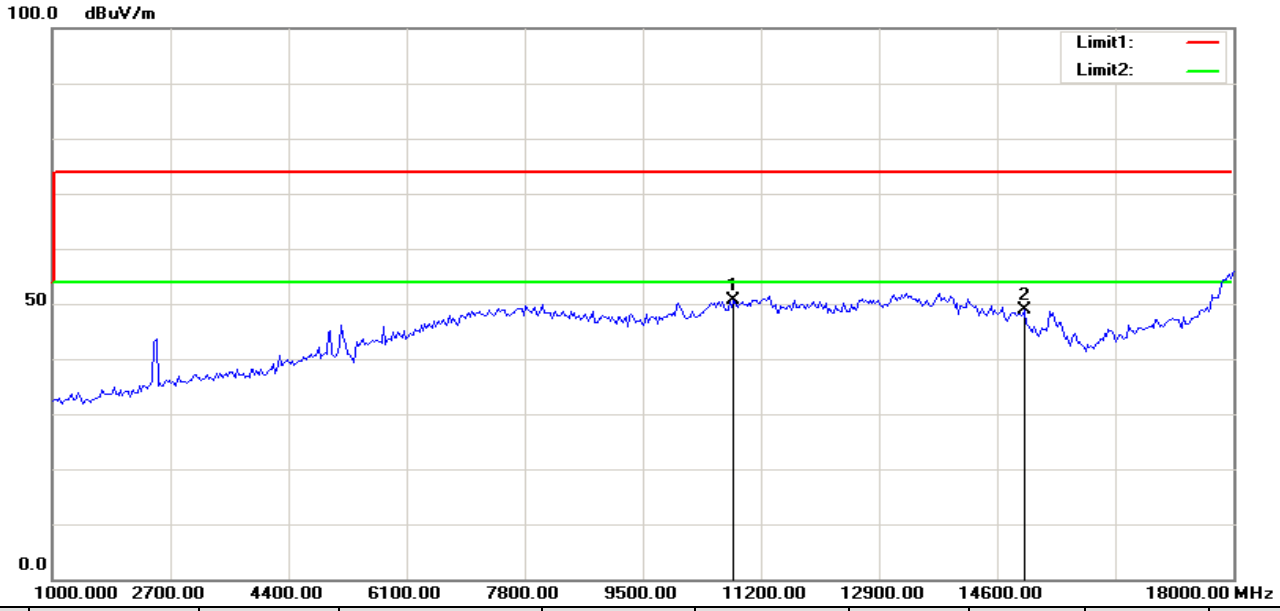
Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	11298.077	40.25	10.30	50.55	74.00	-23.45	100	294	peak
2	14649.039	37.25	11.52	48.77	74.00	-25.23	100	168	peak
3	N/A								

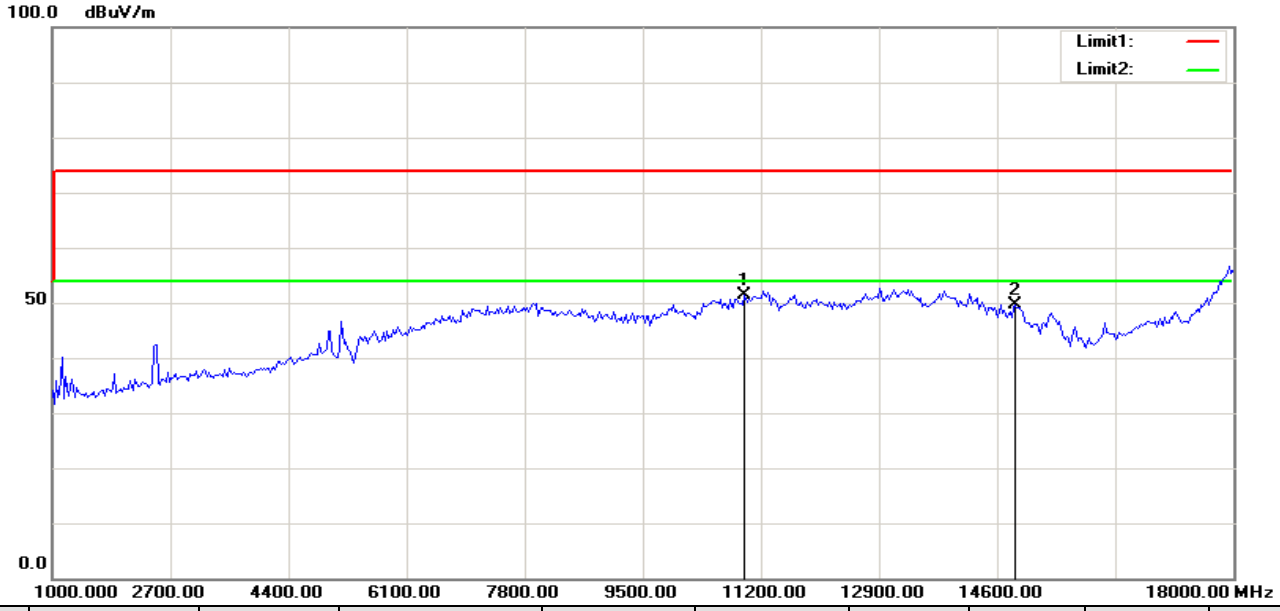
Operation Mode:	TX / IEEE 802.11n HT 20 MHz mode /CH Low	Test Date:	2016-9-4
Temperature:	25°C	Tested by:	James.Yan
Humidity:	55% RH	Polarity:	Ver. / Hor.

Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	10807.692	40.91	9.76	50.67	74.00	-23.33	100	174	peak
2	15003.205	37.63	11.23	48.86	74.00	-25.14	100	66	peak
3	N/A								

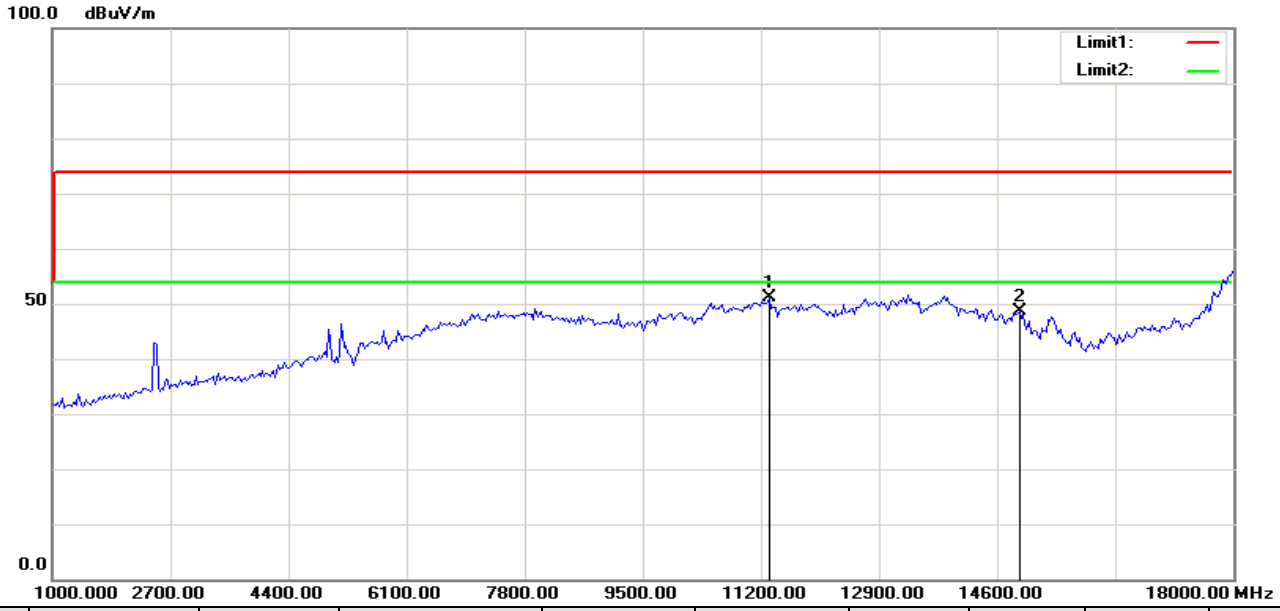
Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	10971.154	41.12	10.23	51.35	74.00	-22.65	100	349	peak
2	14866.987	38.26	11.35	49.61	74.00	-24.39	100	121	peak
3	N/A								

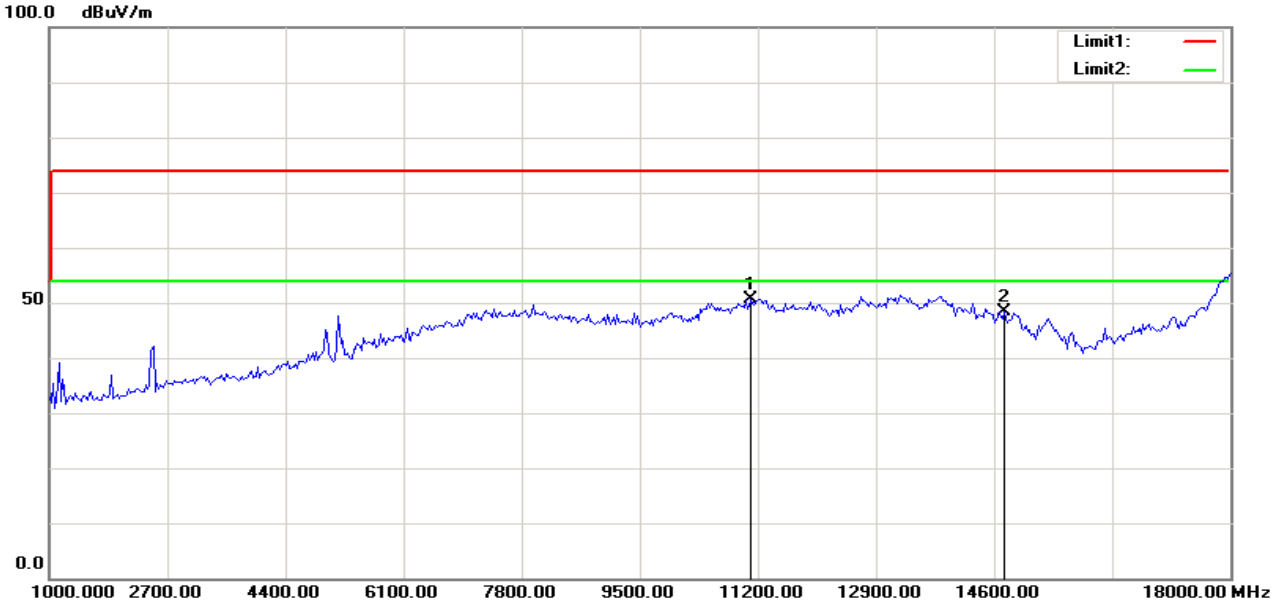
Operation Mode:	TX / IEEE 802.11n HT 20 MHz mode /CH Mid	Test Date:	2016-9-4
Temperature:	25°C	Tested by:	James.Yan
Humidity:	55% RH	Polarity:	Ver. / Hor.

Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	11325.320	40.72	10.30	51.02	74.00	-22.98	100	98	peak
2	14921.474	37.44	11.30	48.74	74.00	-25.26	100	95	peak
3	N/A								

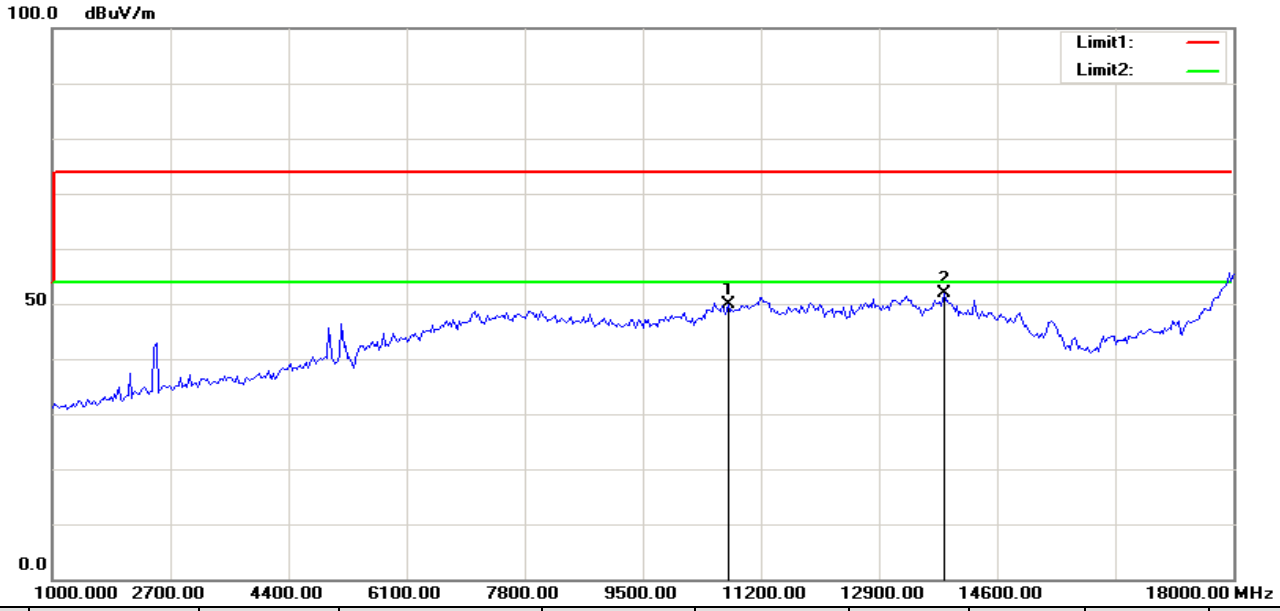
Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	11107.372	40.39	10.31	50.70	74.00	-23.30	100	42	peak
2	14758.013	36.87	11.43	48.30	74.00	-25.70	100	106	peak
3	N/A								

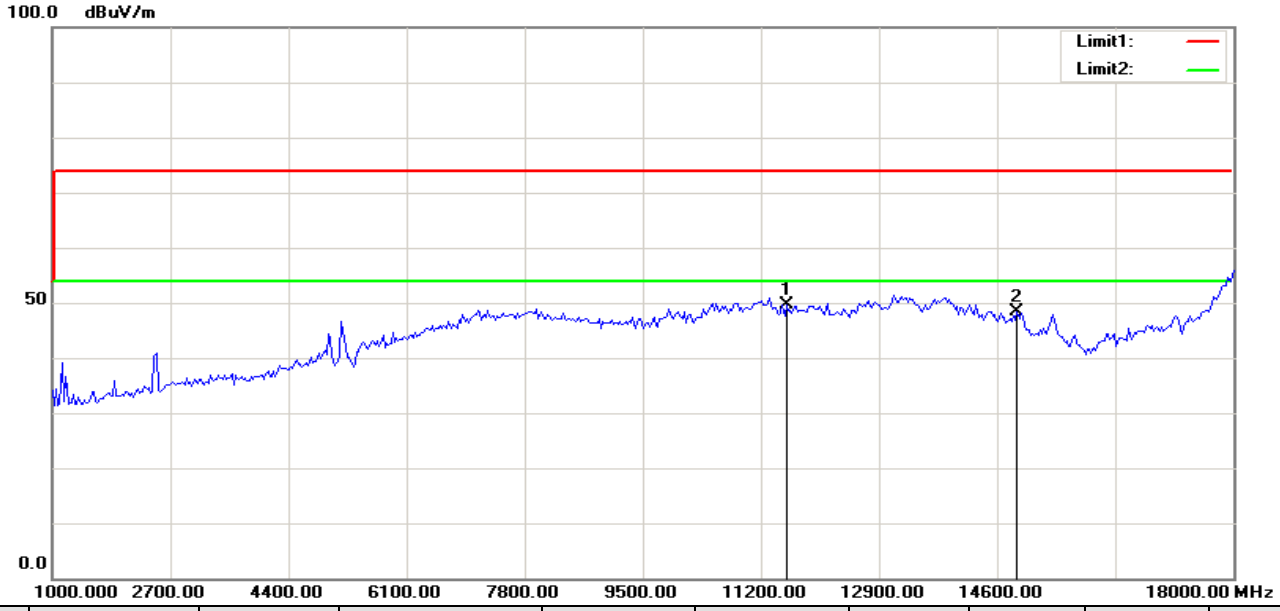
Operation Mode:	TX / IEEE 802.11n HT 20 MHz mode /CH High	Test Date:	2016-9-4
Temperature:	25°C	Tested by:	James.Yan
Humidity:	55% RH	Polarity:	Ver. / Hor.

Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	10725.961	40.23	9.53	49.76	74.00	-24.24	100	117	peak
2	13831.731	39.68	12.13	51.81	74.00	-22.19	100	360	peak
3	N/A								

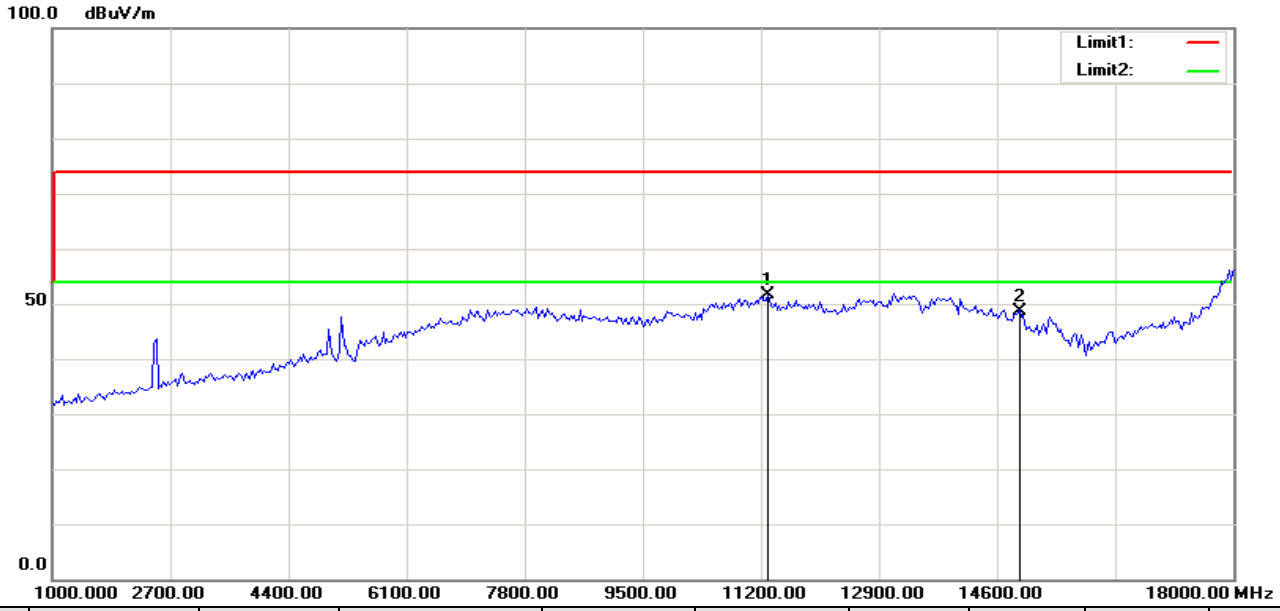
Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	11570.513	39.40	10.29	49.69	74.00	-24.31	100	309	peak
2	14894.231	37.07	11.32	48.39	74.00	-25.61	100	47	peak
3	N/A								

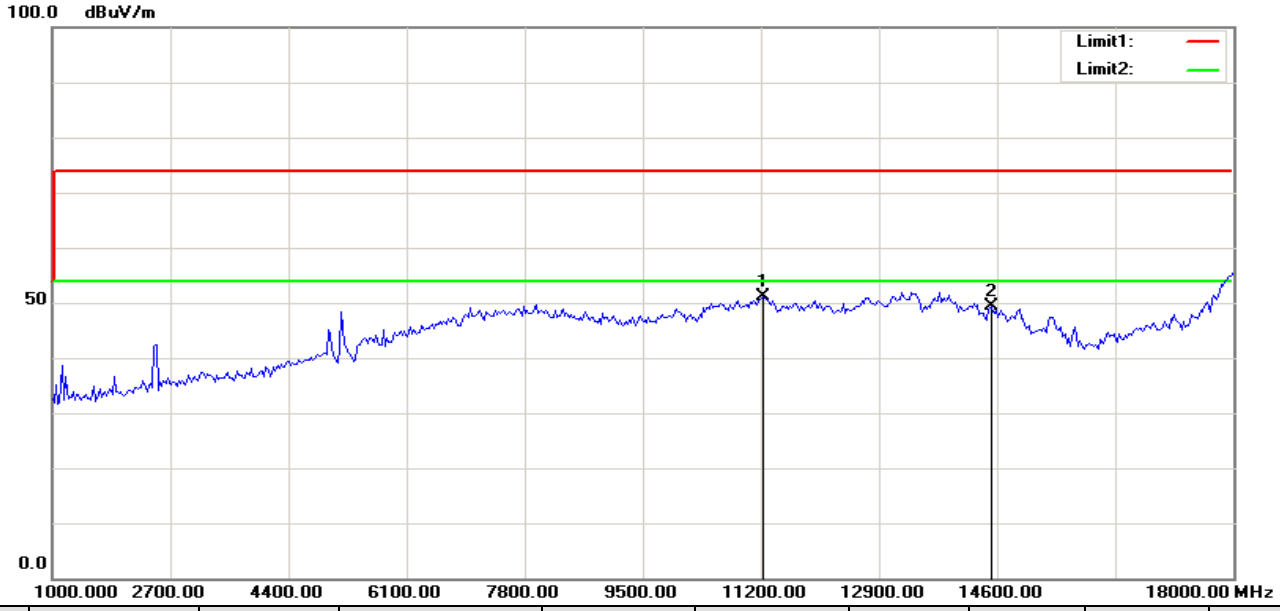
Operation Mode:	TX / IEEE 802.11n HT 40 MHz mode /CH Low	Test Date:	2016-9-4
Temperature:	25°C	Tested by:	James.Yan
Humidity:	55% RH	Polarity:	Ver. / Hor.

Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	11298.077	41.28	10.30	51.58	74.00	-22.42	100	67	peak
2	14921.474	37.45	11.30	48.75	74.00	-25.25	100	343	peak
3	N/A								

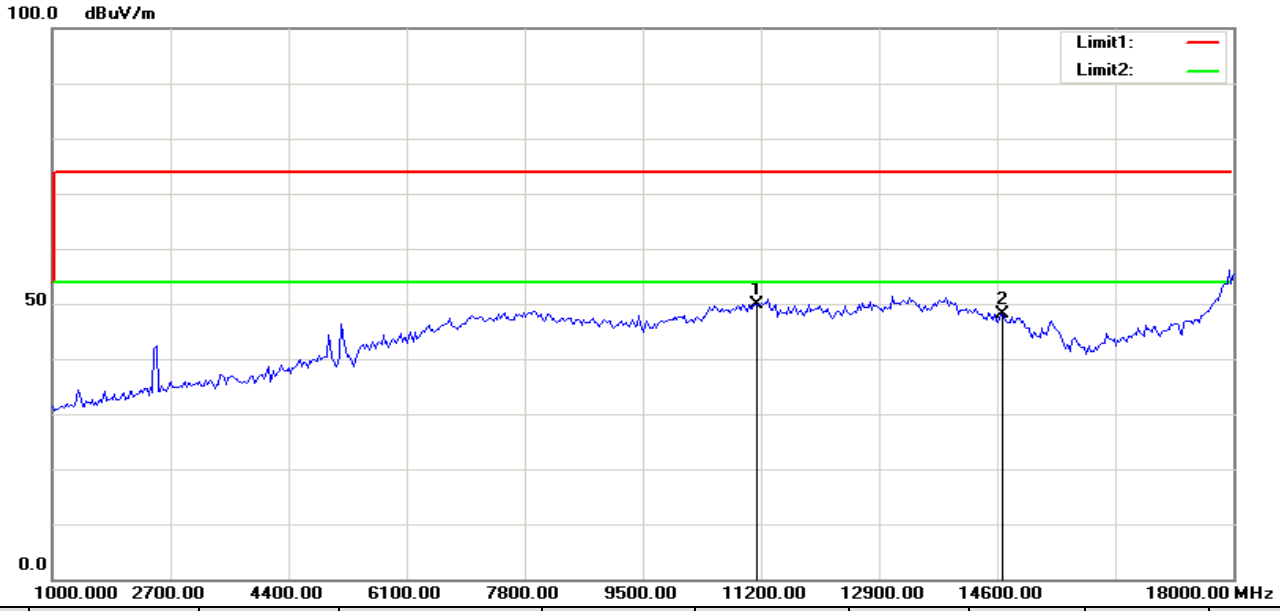
Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	11243.590	40.71	10.30	51.01	74.00	-22.99	100	142	peak
2	14512.820	37.64	11.63	49.27	74.00	-24.73	100	38	peak
3	N/A								

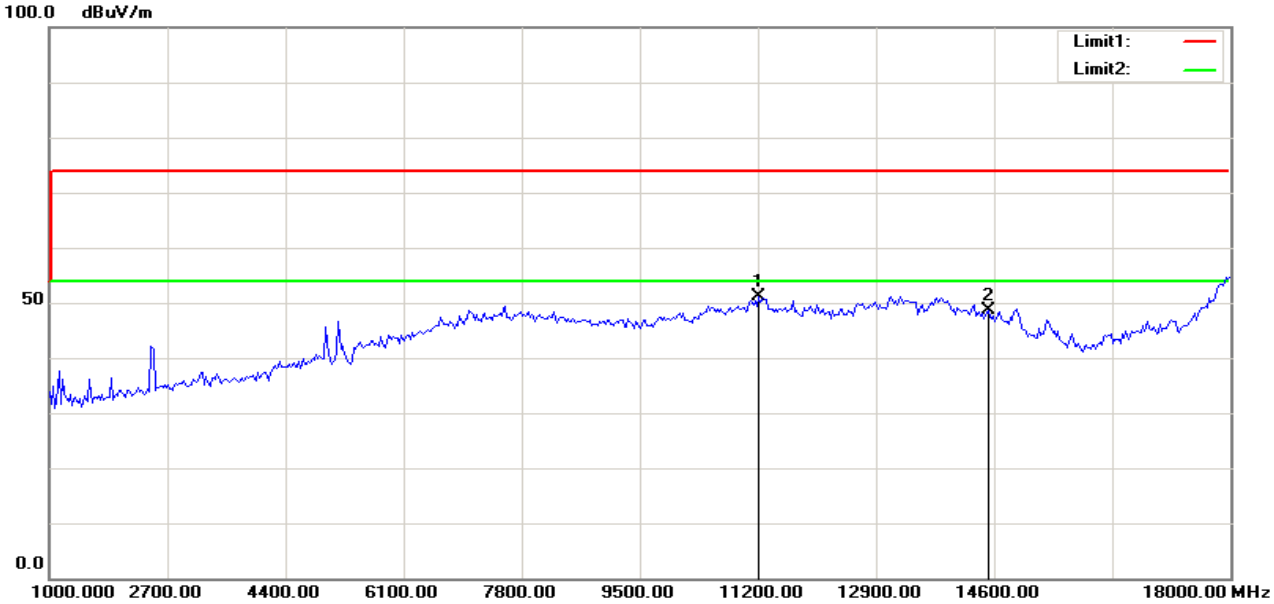
Operation Mode:	TX / IEEE 802.11n HT 40 MHz mode /CH High	Test Date:	2016-9-4
Temperature:	25°C	Tested by:	James.Yan
Humidity:	55% RH	Polarity:	Ver. / Hor.

Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	11134.615	39.67	10.31	49.98	74.00	-24.02	100	225	peak
2	14676.282	36.66	11.50	48.16	74.00	-25.84	100	93	peak
3	N/A								

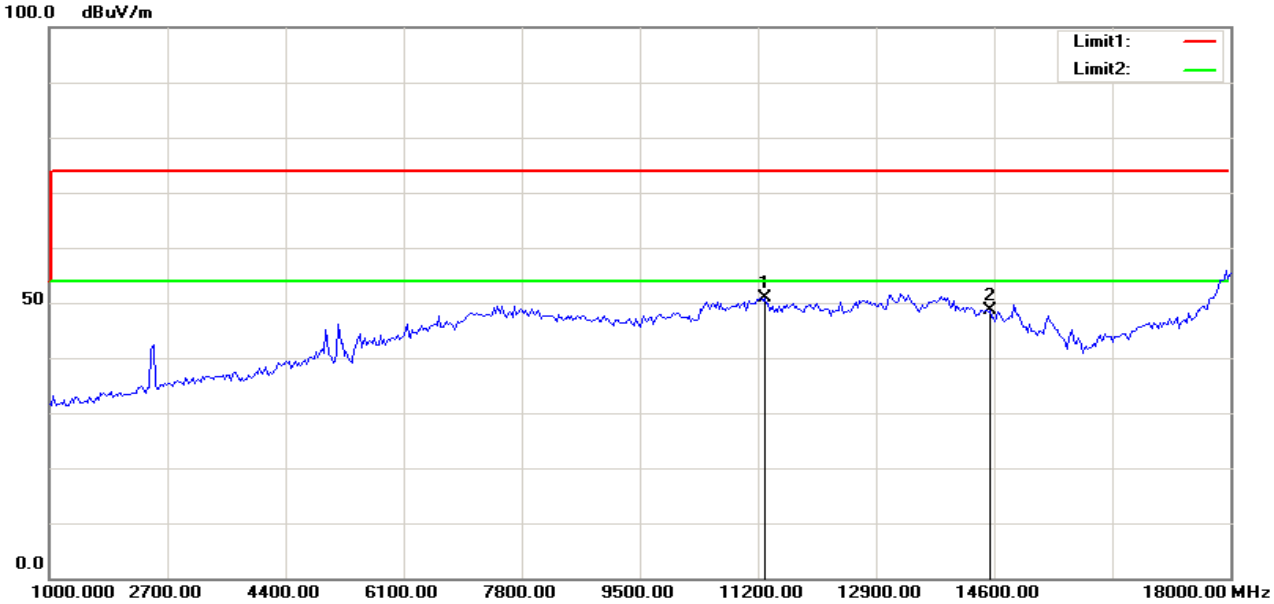
Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	11216.346	40.94	10.30	51.24	74.00	-22.76	100	316	peak
2	14512.820	36.90	11.63	48.53	74.00	-25.47	100	344	peak
3	N/A								

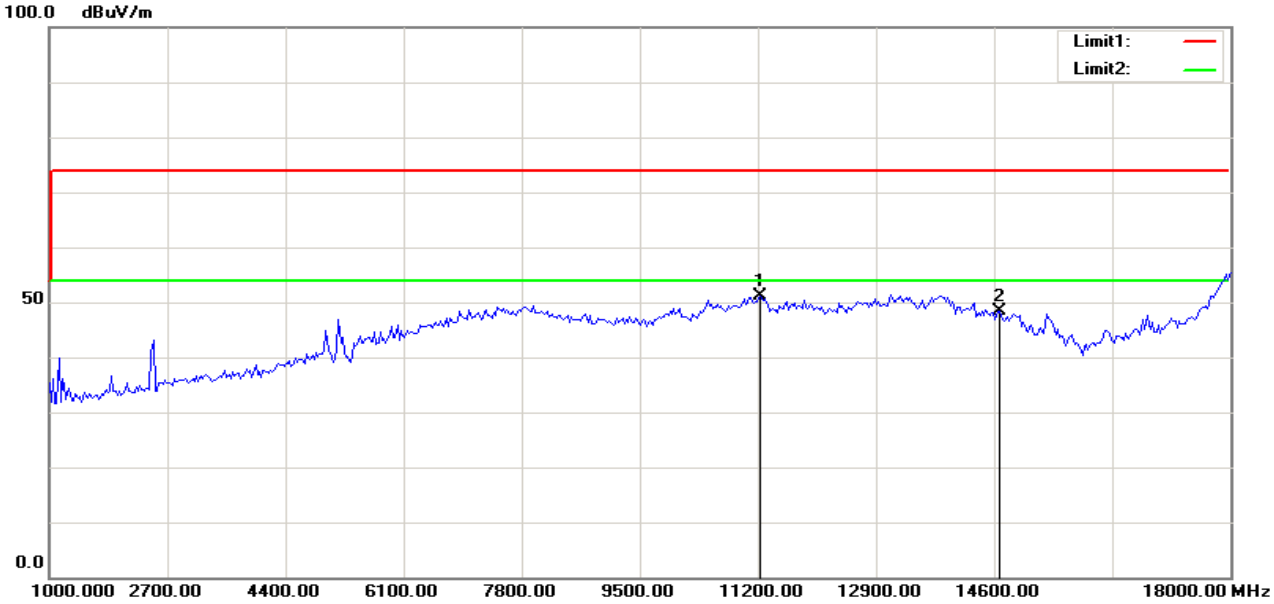
Operation Mode:	TX / IEEE 802.11ac HT80 mode / CH Mid	Test Date:	2016-9-4
Temperature:	25°C	Tested by:	James.Yan
Humidity:	55% RH	Polarity:	Ver. / Hor.

Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	11298.077	40.51	10.30	50.81	74.00	-23.19	100	107	peak
2	14540.064	37.08	11.61	48.69	74.00	-25.31	100	231	peak
3	N/A								

Vertical

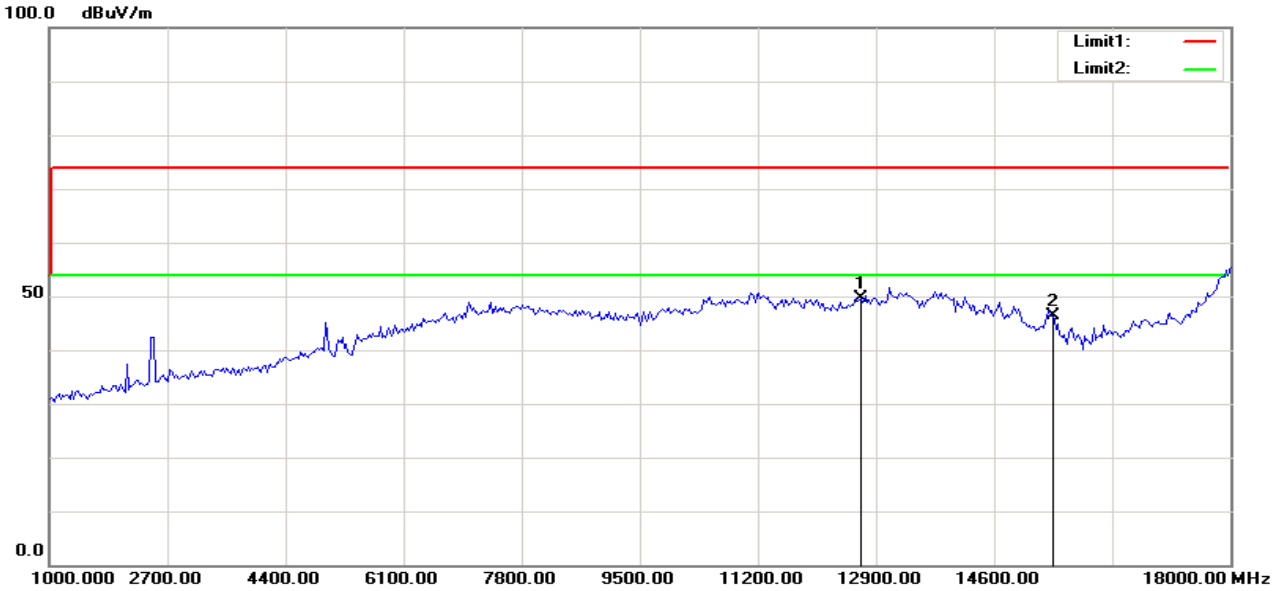


No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	11243.590	40.92	10.30	51.22	74.00	-22.78	100	311	peak
2	14676.282	36.88	11.50	48.38	74.00	-25.62	100	74	peak
3	N/A								

Band II:5250MHz~5350MHz

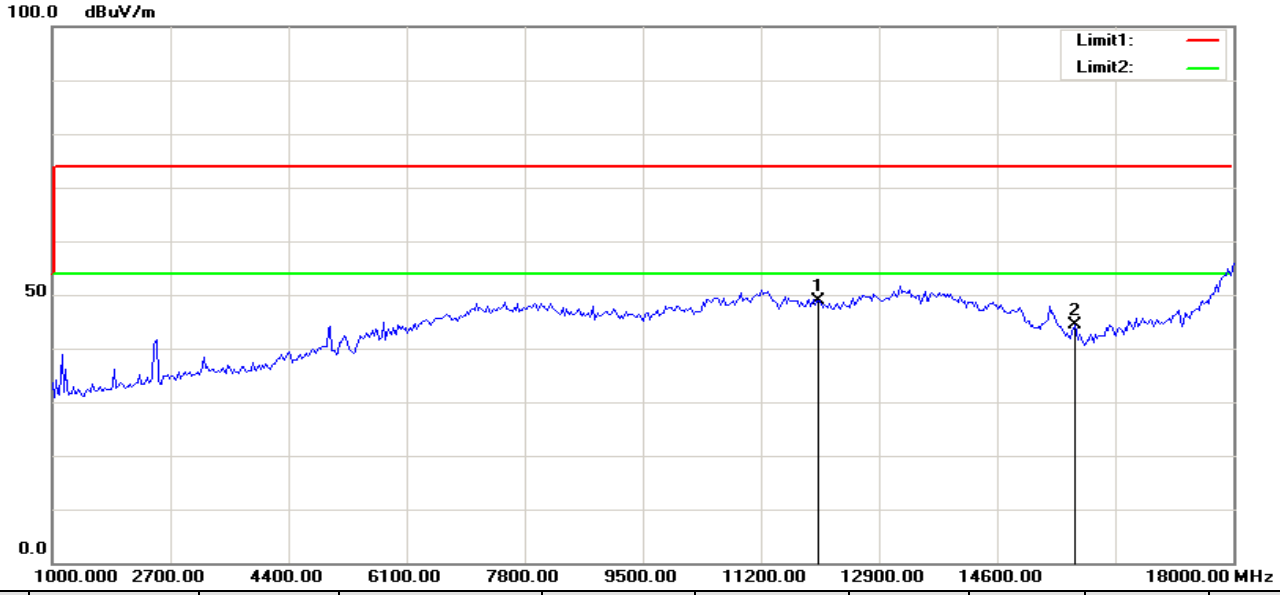
Operation Mode:	Tx / IEEE 802.11a mode CH Low	**Test Date:**	2016-9-4
Temperature:	25°C	**Tested by:**	James.Yan
Humidity:	55% RH	**Polarity:**	Ver. / Hor.

Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	12687.500	37.84	11.87	49.71	74.00	-24.29	100	258	peak
2	15439.103	36.82	9.54	46.36	74.00	-27.64	100	291	peak
3	N/A								

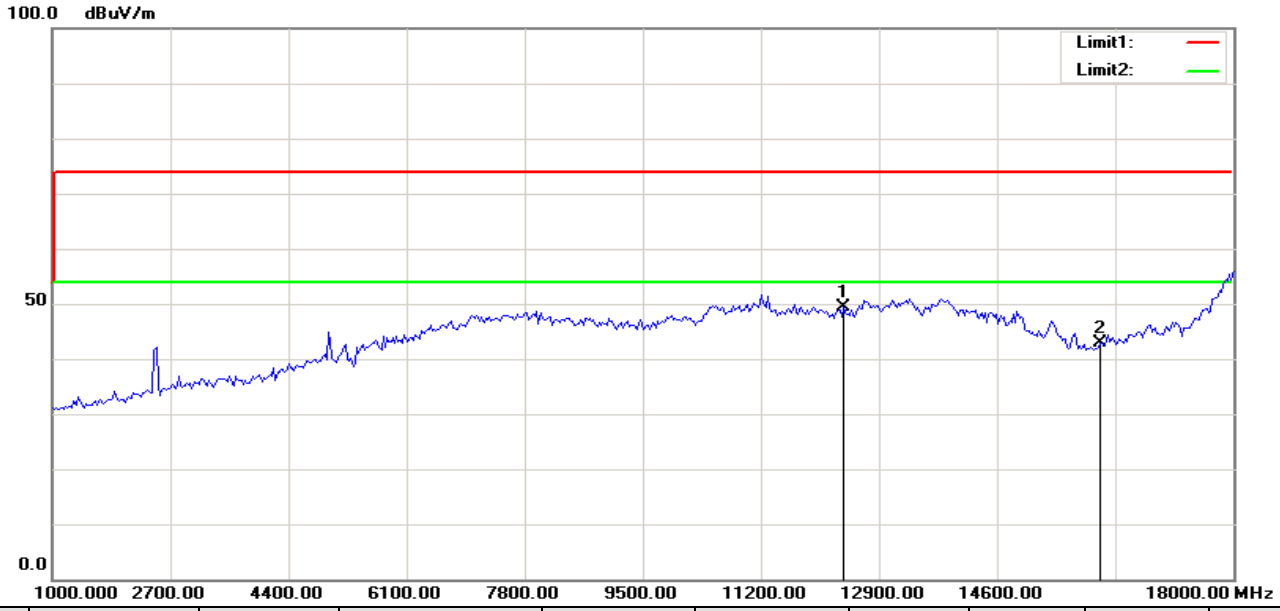
Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	12033.654	38.63	10.36	48.99	74.00	-25.01	100	23	peak
2	15711.539	35.80	8.48	44.28	74.00	-29.72	100	199	peak
3	N/A								

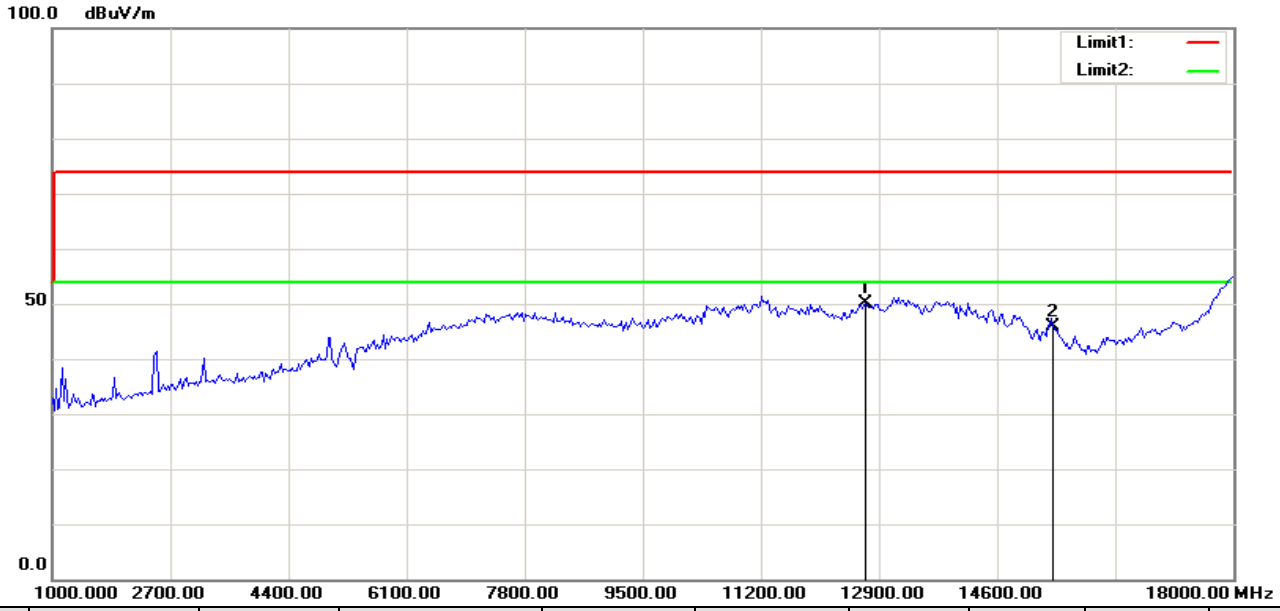
Operation Mode:	Tx / IEEE 802.11a mode CH Mid	Test Date:	2016-9-4
Temperature:	25°C	Tested by:	James.Yan
Humidity:	55% RH	Polarity:	Ver. / Hor.

Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	12387.820	38.20	11.18	49.38	74.00	-24.62	100	172	peak
2	16092.949	35.05	7.75	42.80	74.00	-31.20	100	136	peak
3	N/A								

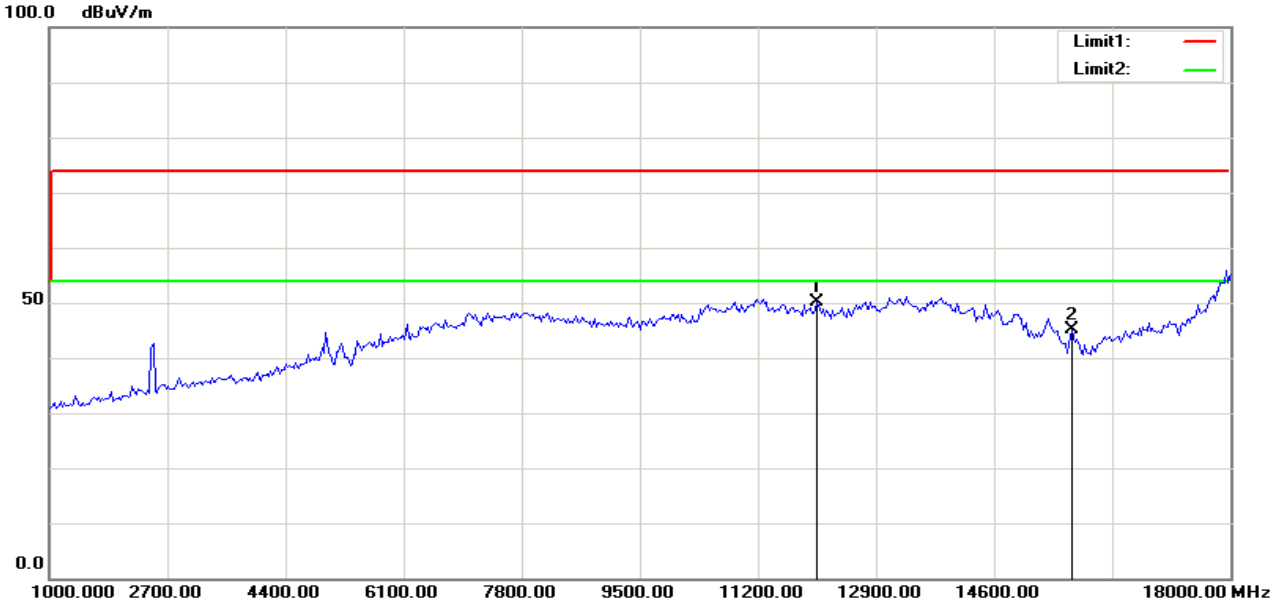
Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	12714.744	38.31	11.93	50.24	74.00	-23.76	100	250	peak
2	15411.859	36.29	9.64	45.93	74.00	-28.07	100	83	peak
3	N/A								

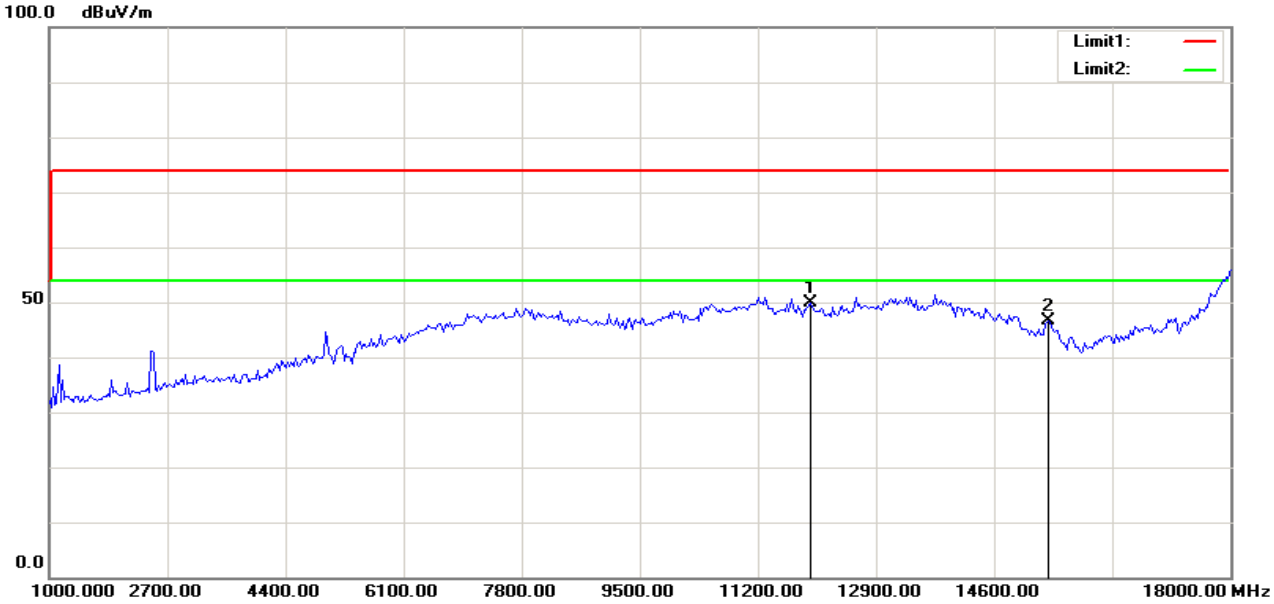
Operation Mode:	Tx / IEEE 802.11a mode CH High	Test Date:	2016-9-4
Temperature:	25°C	Tested by:	James.Yan
Humidity:	55% RH	Polarity:	Ver. / Hor.

Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	12060.897	39.67	10.42	50.09	74.00	-23.91	100	15	peak
2	15711.539	36.58	8.48	45.06	74.00	-28.94	100	43	peak
3	N/A								

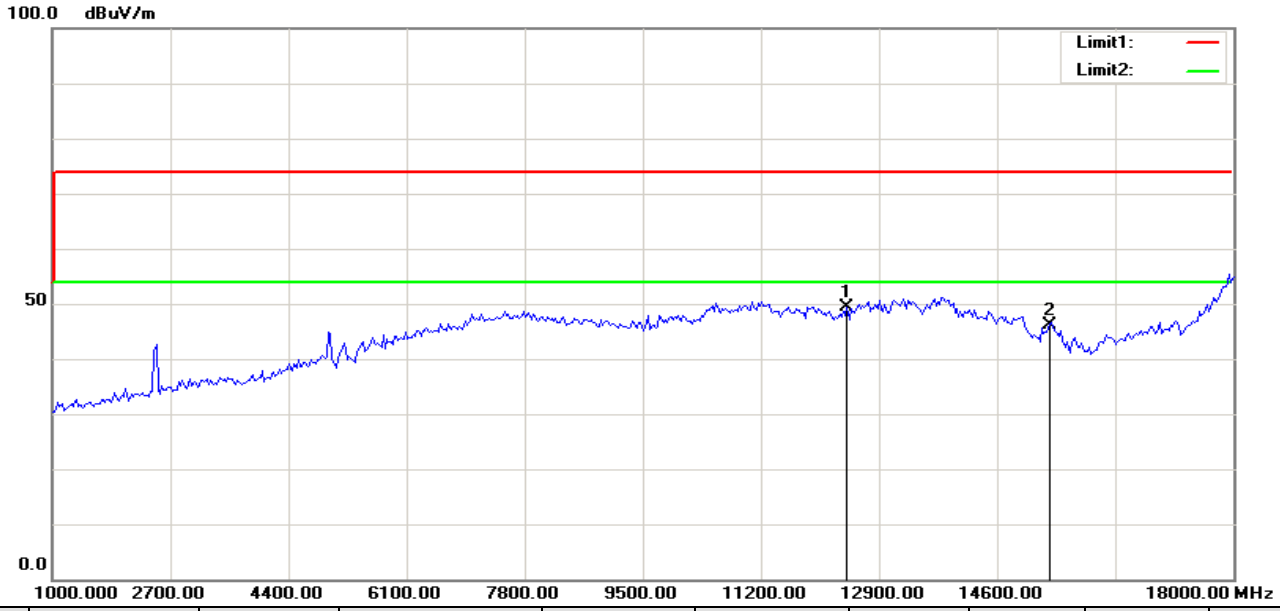
Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	11951.923	39.48	10.28	49.76	74.00	-24.24	100	51	peak
2	15384.615	36.76	9.75	46.51	74.00	-27.49	100	45	peak
3	N/A								

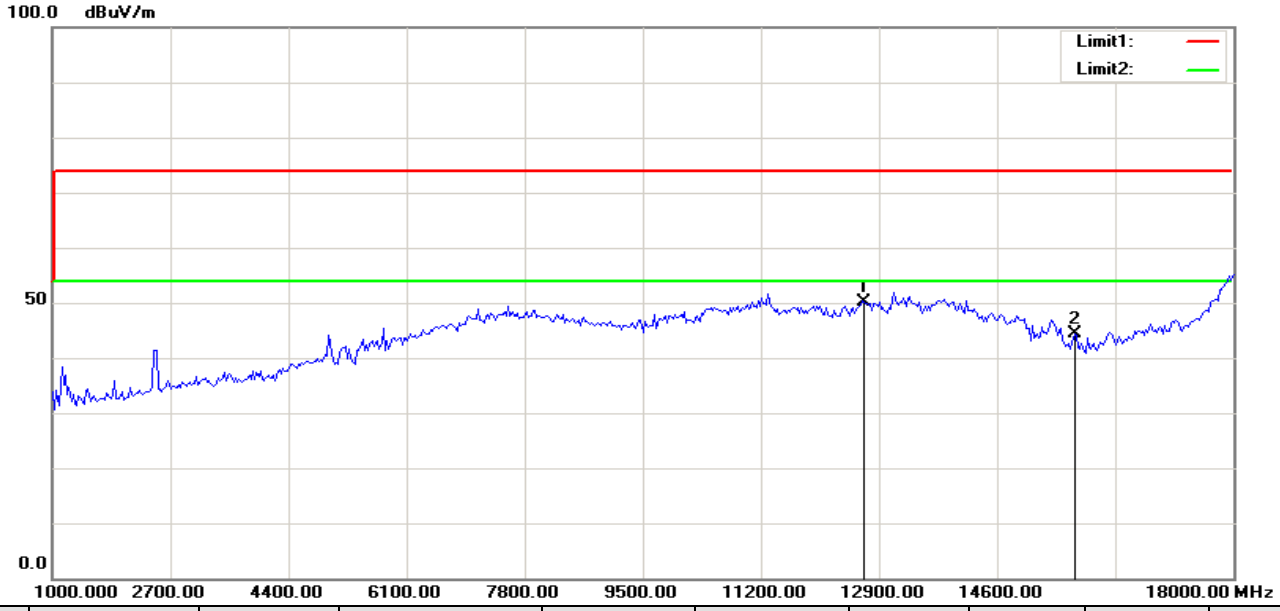
Operation Mode:	TX / IEEE 802.11n HT 20 MHz mode /CH Low	Test Date:	2016-9-4
Temperature:	25°C	Tested by:	James.Yan
Humidity:	55% RH	Polarity:	Ver. / Hor.

Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	12442.308	38.14	11.30	49.44	74.00	-24.56	100	360	peak
2	15357.372	36.27	9.85	46.12	74.00	-27.88	100	39	peak
3	N/A								

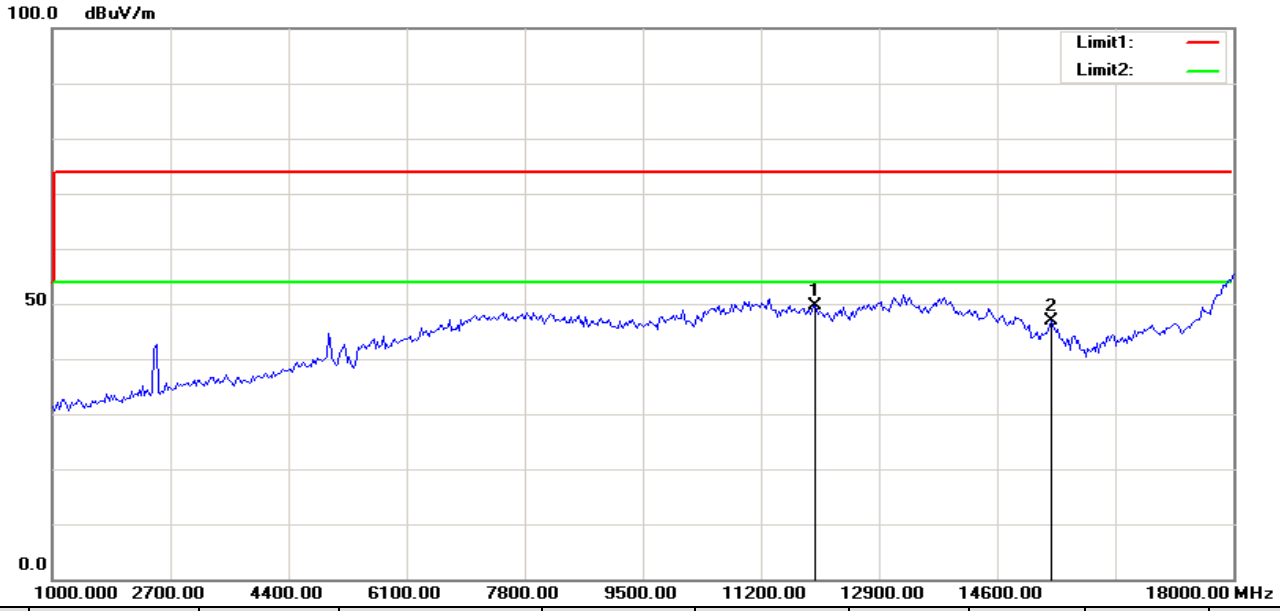
Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	12687.500	38.20	11.87	50.07	74.00	-23.93	100	331	peak
2	15711.539	35.83	8.48	44.31	74.00	-29.69	100	137	peak
3	N/A								

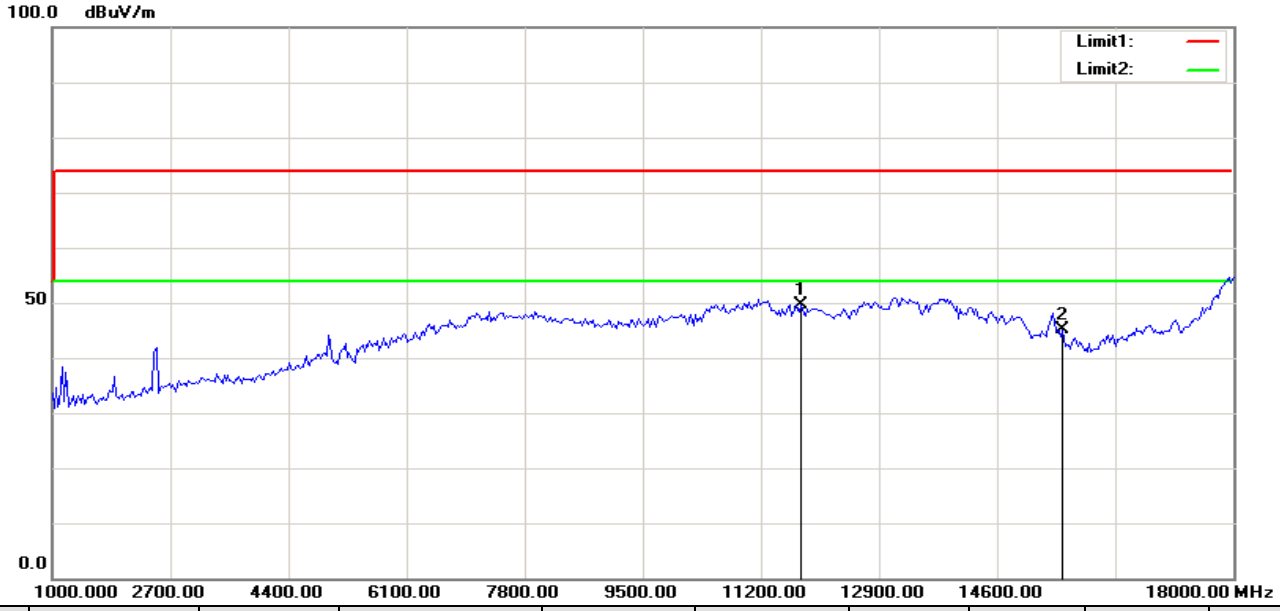
Operation Mode:	TX / IEEE 802.11n HT 20 MHz mode /CH Mid	Test Date:	2016-9-4
Temperature:	25°C	Tested by:	James.Yan
Humidity:	55% RH	Polarity:	Ver. / Hor.

Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	11979.167	39.24	10.28	49.52	74.00	-24.48	100	104	peak
2	15384.615	37.10	9.75	46.85	74.00	-27.15	100	264	peak
3	N/A								

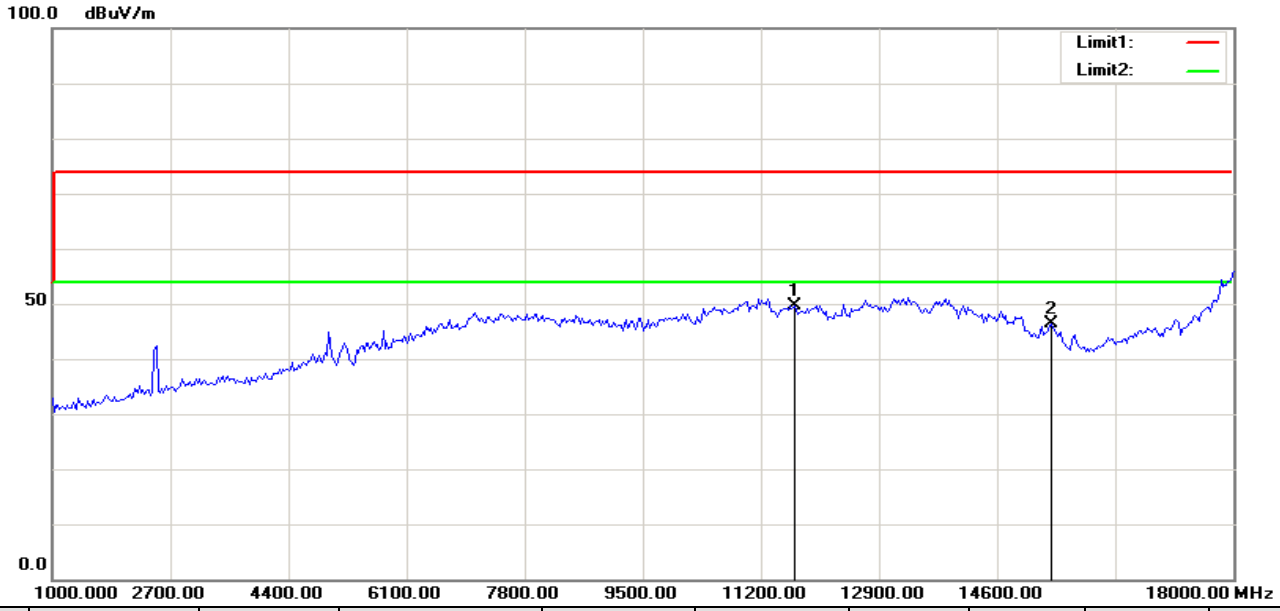
Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	11788.461	39.33	10.29	49.62	74.00	-24.38	100	87	peak
2	15548.077	36.08	9.11	45.19	74.00	-28.81	100	187	peak
3	N/A								

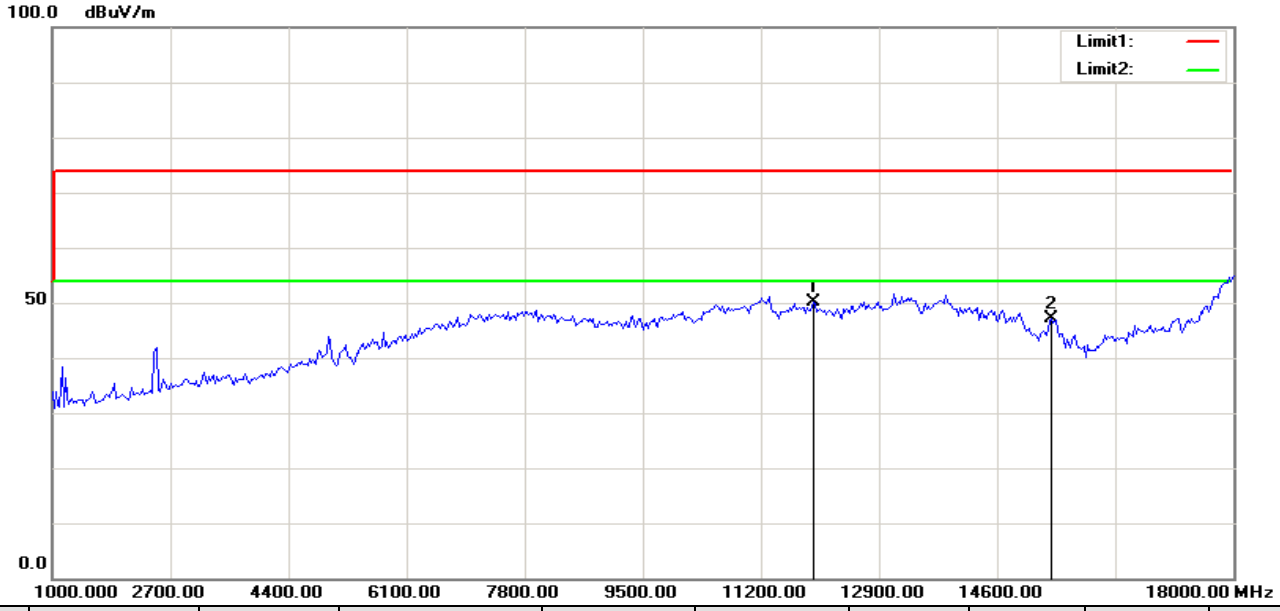
Operation Mode:	TX / IEEE 802.11n HT 20 MHz mode /CH High	Test Date:	2016-9-4
Temperature:	25°C	Tested by:	James.Yan
Humidity:	55% RH	Polarity:	Ver. / Hor.

Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	11679.487	39.31	10.29	49.60	74.00	-24.40	100	105	peak
2	15384.615	36.66	9.75	46.41	74.00	-27.59	100	10	peak
3	N/A								

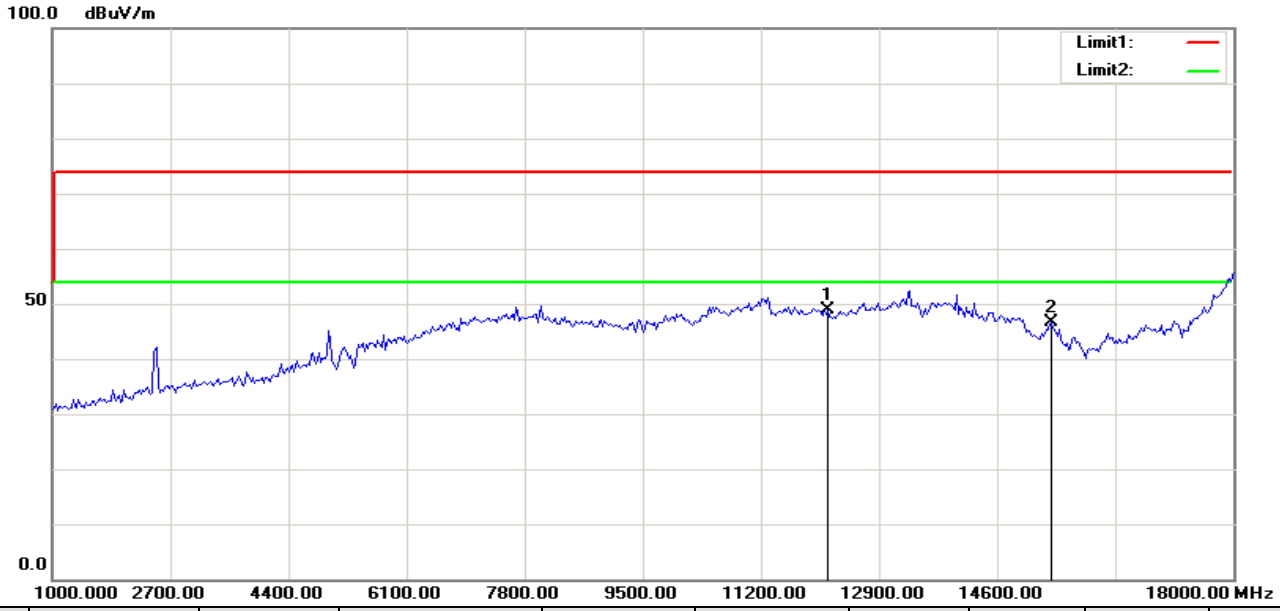
Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	11951.923	39.75	10.28	50.03	74.00	-23.97	100	320	peak
2	15384.615	37.27	9.75	47.02	74.00	-26.98	100	145	peak
3	N/A								

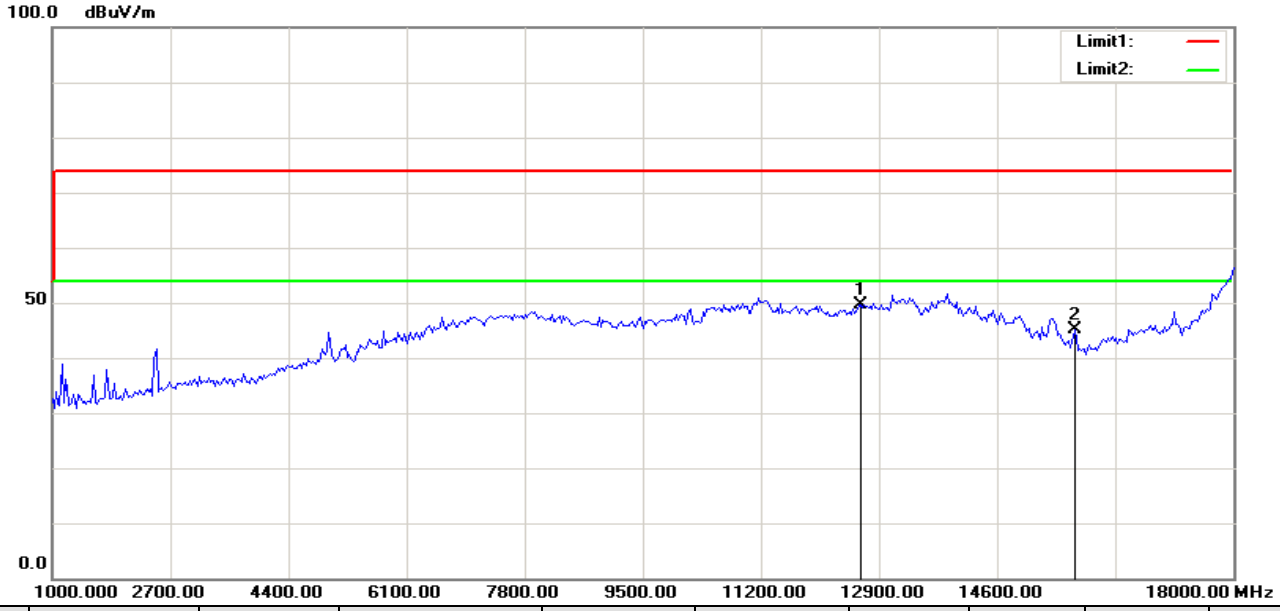
Operation Mode:	TX / IEEE 802.11n HT 40 MHz mode /CH Low	Test Date:	2016-9-4
Temperature:	25°C	Tested by:	James.Yan
Humidity:	55% RH	Polarity:	Ver. / Hor.

Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	12169.872	38.10	10.67	48.77	74.00	-25.23	100	151	peak
2	15384.615	36.86	9.75	46.61	74.00	-27.39	100	63	peak
3	N/A								

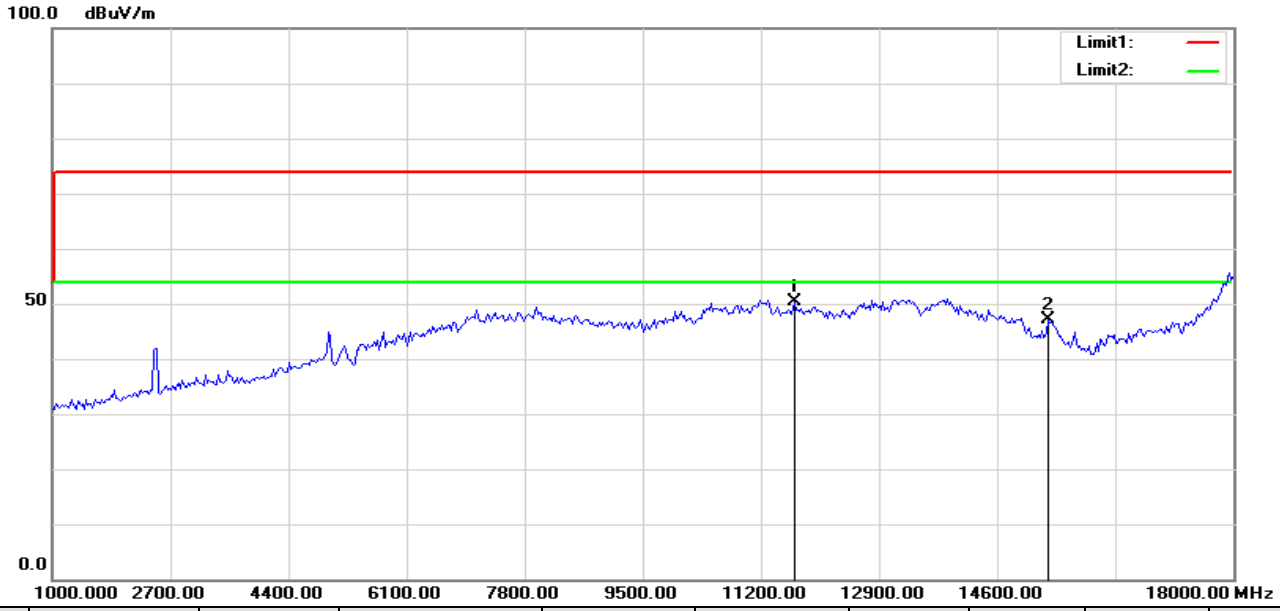
Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	12633.013	37.94	11.74	49.68	74.00	-24.32	100	134	peak
2	15711.539	36.73	8.48	45.21	74.00	-28.79	100	23	peak
3	N/A								

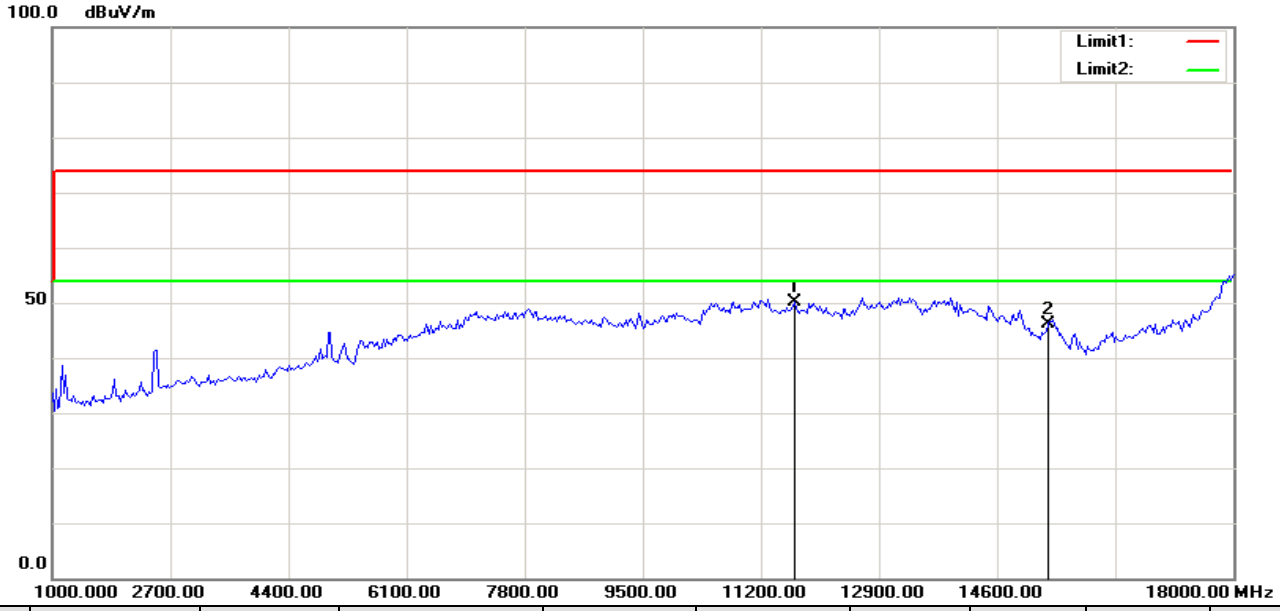
Operation Mode:	TX / IEEE 802.11n HT 40 MHz mode /CH High	Test Date:	2016-9-4
Temperature:	25°C	Tested by:	James.Yan
Humidity:	55% RH	Polarity:	Ver. / Hor.

Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	11679.487	39.97	10.29	50.26	74.00	-23.74	100	356	peak
2	15330.128	37.10	9.96	47.06	74.00	-26.94	100	65	peak
3	N/A								

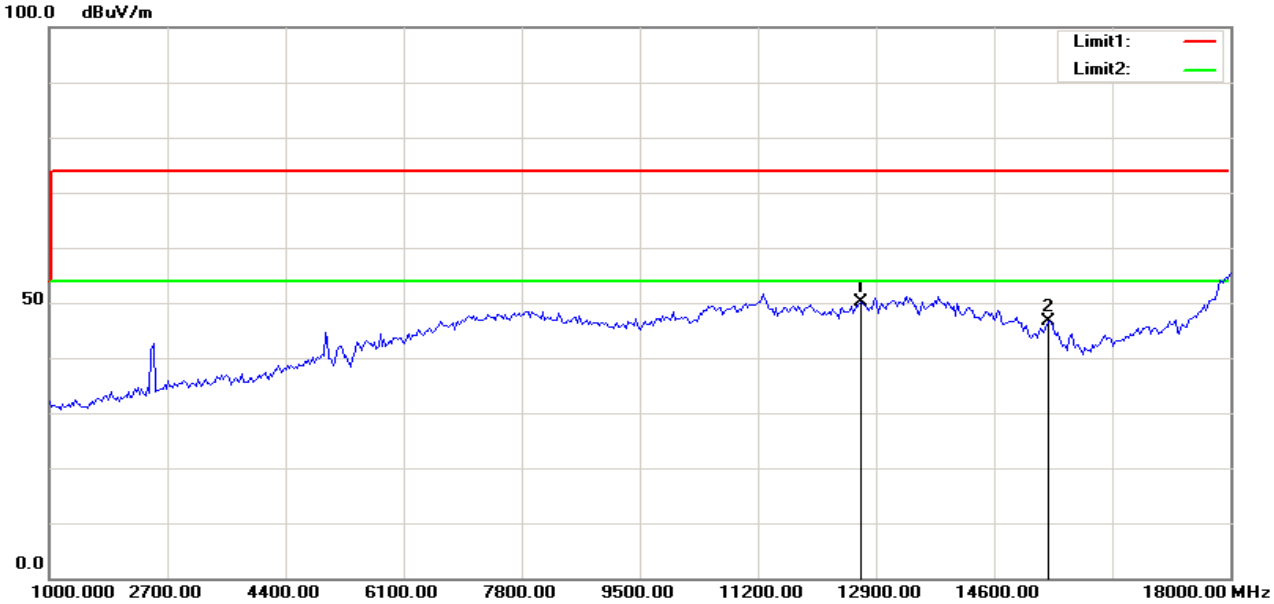
Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	11679.487	39.76	10.29	50.05	74.00	-23.95	100	312	peak
2	15330.128	36.09	9.96	46.05	74.00	-27.95	100	31	peak
3	N/A								

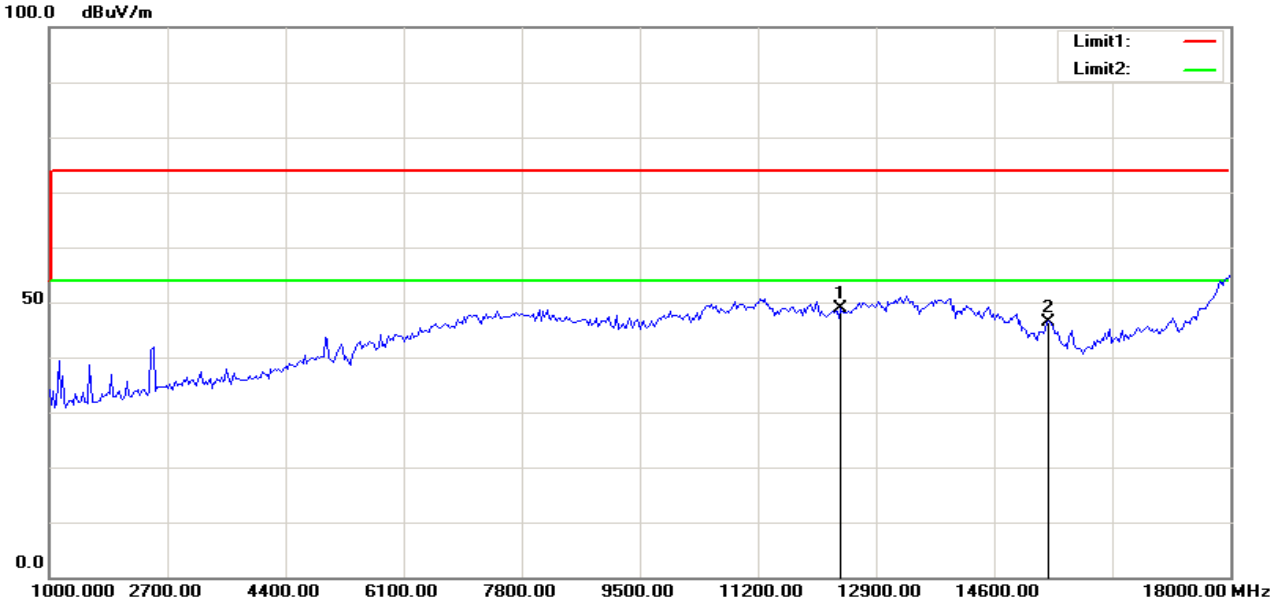
Operation Mode:	TX / IEEE 802.11ac HT80 mode / CH Mid	Test Date:	2016-9-4
Temperature:	25°C	Tested by:	James.Yan
Humidity:	55% RH	Polarity:	Ver. / Hor.

Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	12687.500	38.24	11.87	50.11	74.00	-23.89	100	347	peak
2	15384.615	36.78	9.75	46.53	74.00	-27.47	100	360	peak
3	N/A								

Vertical

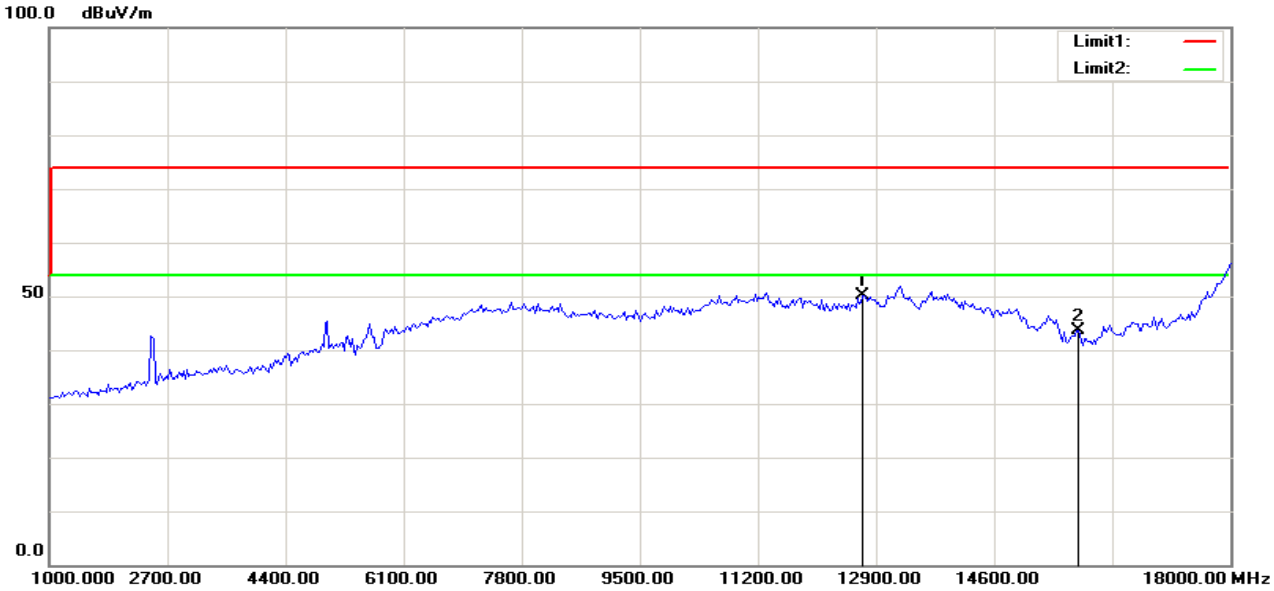


No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	12387.820	37.78	11.18	48.96	74.00	-25.04	100	328	peak
2	15384.615	36.75	9.75	46.50	74.00	-27.50	100	258	peak
3	N/A								

Band III:5470MHz~5725MHz

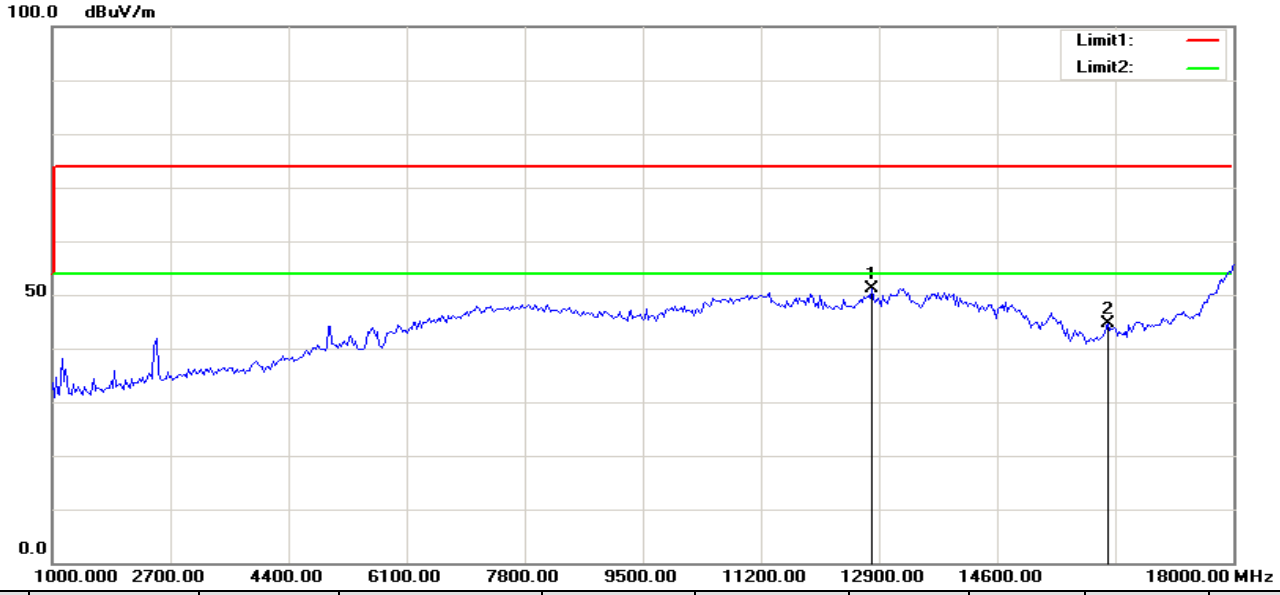
Operation Mode:	Tx / IEEE 802.11a mode CH Low	**Test Date:**	2016-9-4
Temperature:	25°C	**Tested by:**	James.Yan
Humidity:	55% RH	**Polarity:**	Ver. / Hor.

Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	12714.744	38.16	11.93	50.09	74.00	-23.91	100	310	peak
2	15820.513	35.67	8.06	43.73	74.00	-30.27	100	238	peak
3	N/A								

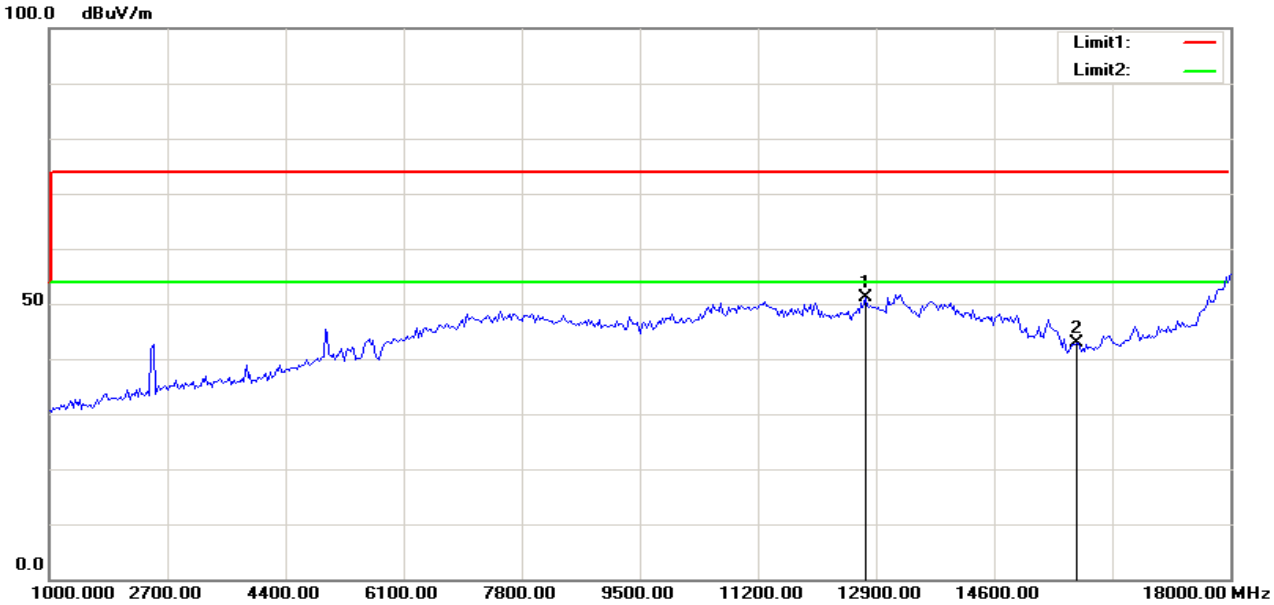
Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	12796.474	39.09	12.12	51.21	74.00	-22.79	100	135	peak
2	16201.923	36.36	8.20	44.56	74.00	-29.44	100	183	peak
3	N/A								

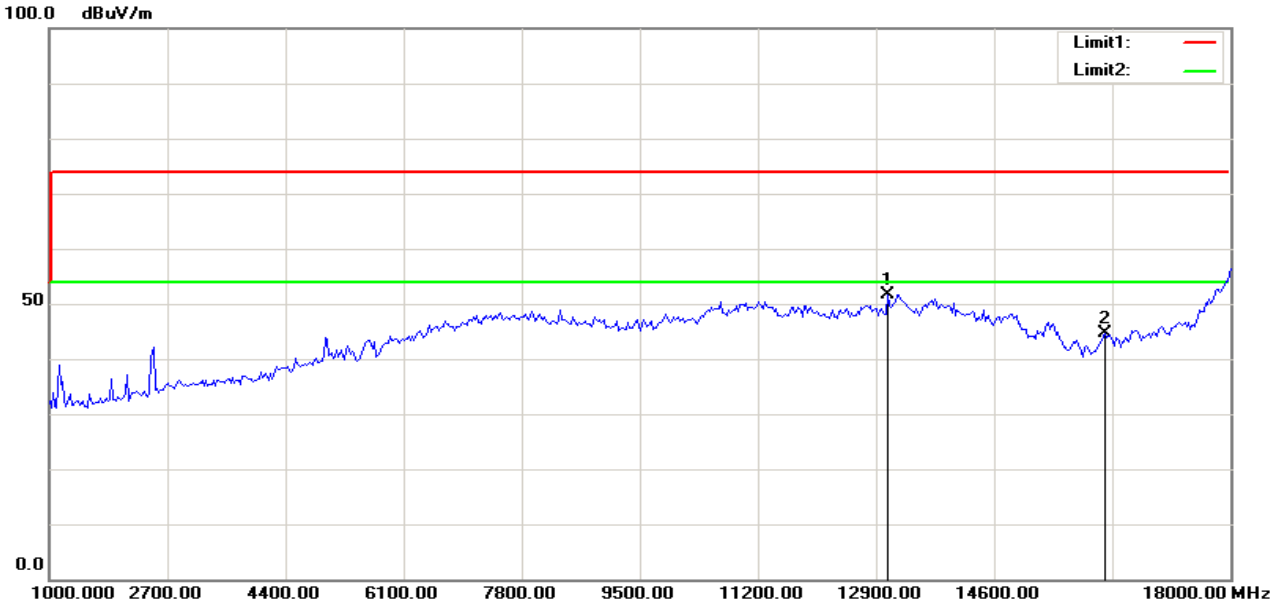
Operation Mode:	Tx / IEEE 802.11a mode CH Mid	Test Date:	2016-9-4
Temperature:	25°C	Tested by:	James.Yan
Humidity:	55% RH	Polarity:	Ver. / Hor.

Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	12741.987	39.25	11.99	51.24	74.00	-22.76	100	223	peak
2	15793.269	34.78	8.16	42.94	74.00	-31.06	100	265	peak
3	N/A								

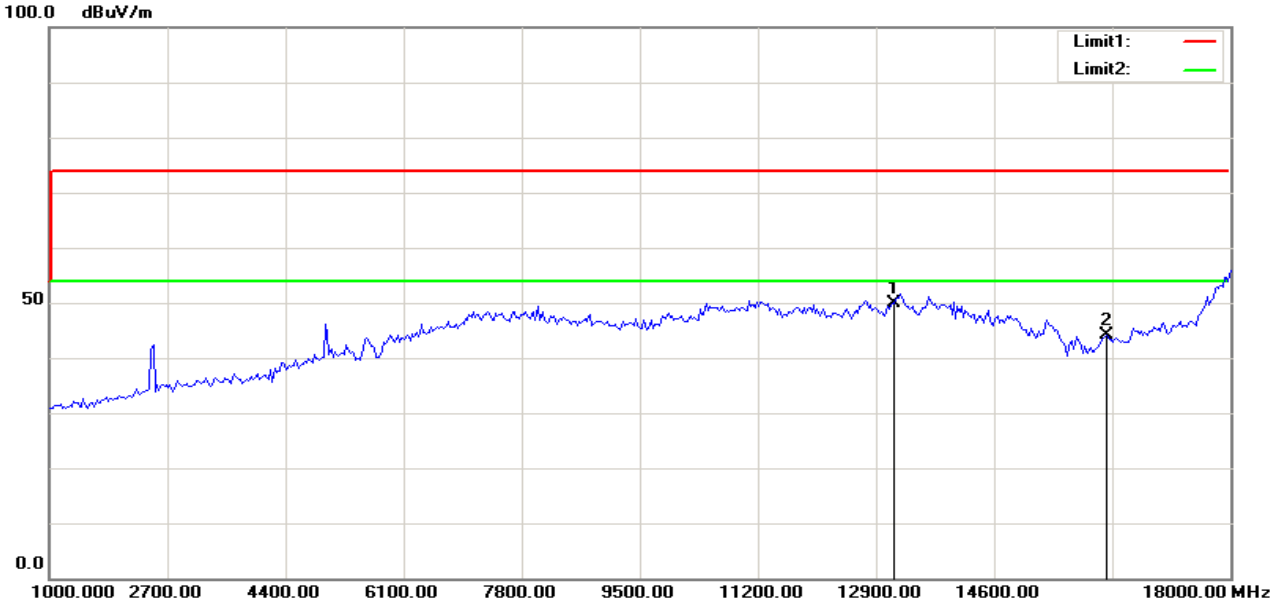
Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	13068.910	39.18	12.55	51.73	74.00	-22.27	100	21	peak
2	16201.923	36.49	8.20	44.69	74.00	-29.31	100	326	peak
3	N/A								

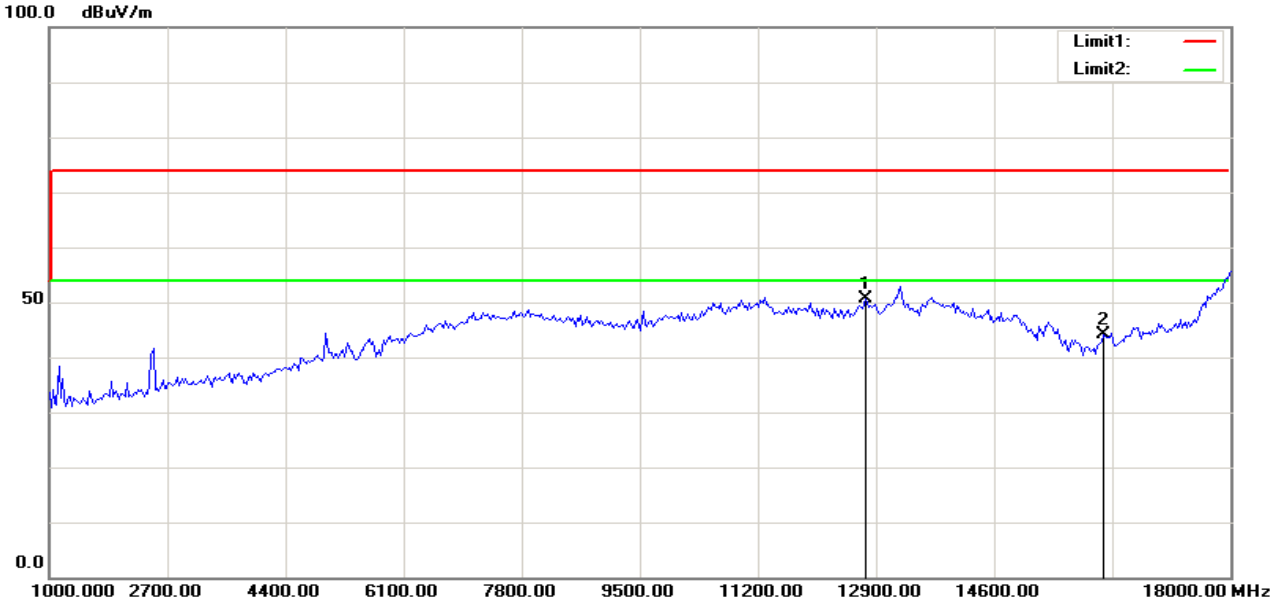
Operation Mode:	Tx / IEEE 802.11a mode CH High	Test Date:	2016-9-4
Temperature:	25°C	Tested by:	James.Yan
Humidity:	55% RH	Polarity:	Ver. / Hor.

Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	13150.641	37.29	12.51	49.80	74.00	-24.20	100	127	peak
2	16229.167	35.89	8.32	44.21	74.00	-29.79	100	236	peak
3	N/A								

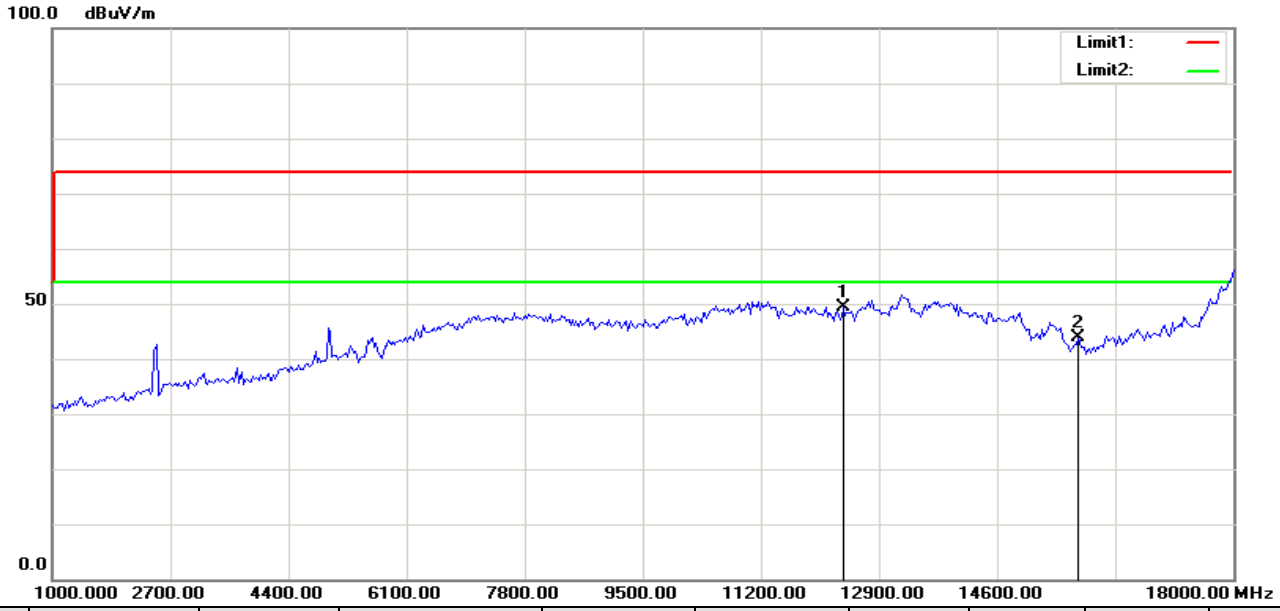
Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	12741.987	38.61	11.99	50.60	74.00	-23.40	100	14	peak
2	16174.680	36.05	8.09	44.14	74.00	-29.86	100	112	peak
3	N/A								

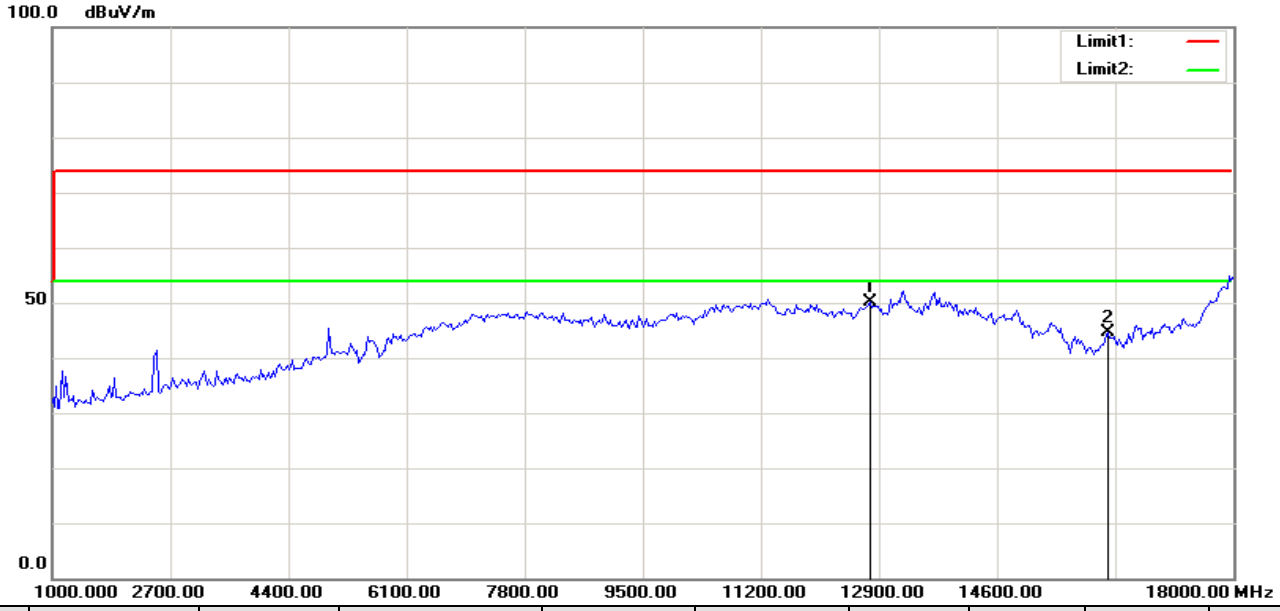
Operation Mode:	TX / IEEE 802.11n HT 20 MHz mode /CH Low	Test Date:	2016-9-4
Temperature:	25°C	Tested by:	James.Yan
Humidity:	55% RH	Polarity:	Ver. / Hor.

Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	12387.820	38.28	11.18	49.46	74.00	-24.54	100	316	peak
2	15766.026	35.49	8.27	43.76	74.00	-30.24	100	290	peak
3	N/A								

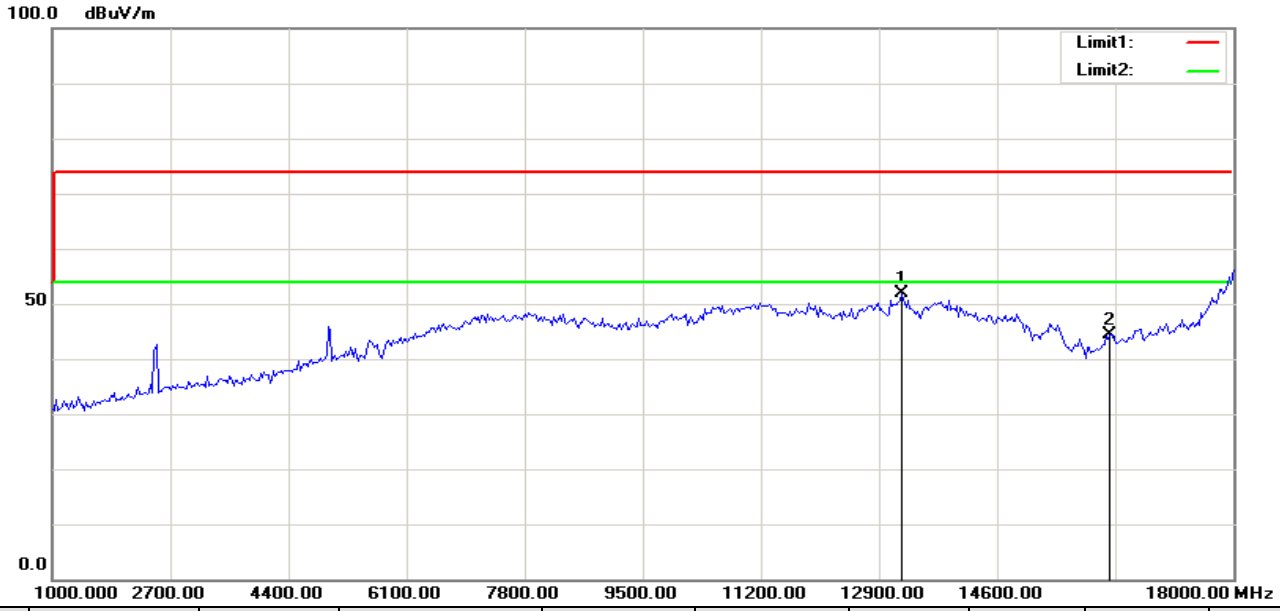
Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	12769.231	38.11	12.06	50.17	74.00	-23.83	100	283	peak
2	16201.923	36.54	8.20	44.74	74.00	-29.26	100	0	peak
3	N/A								

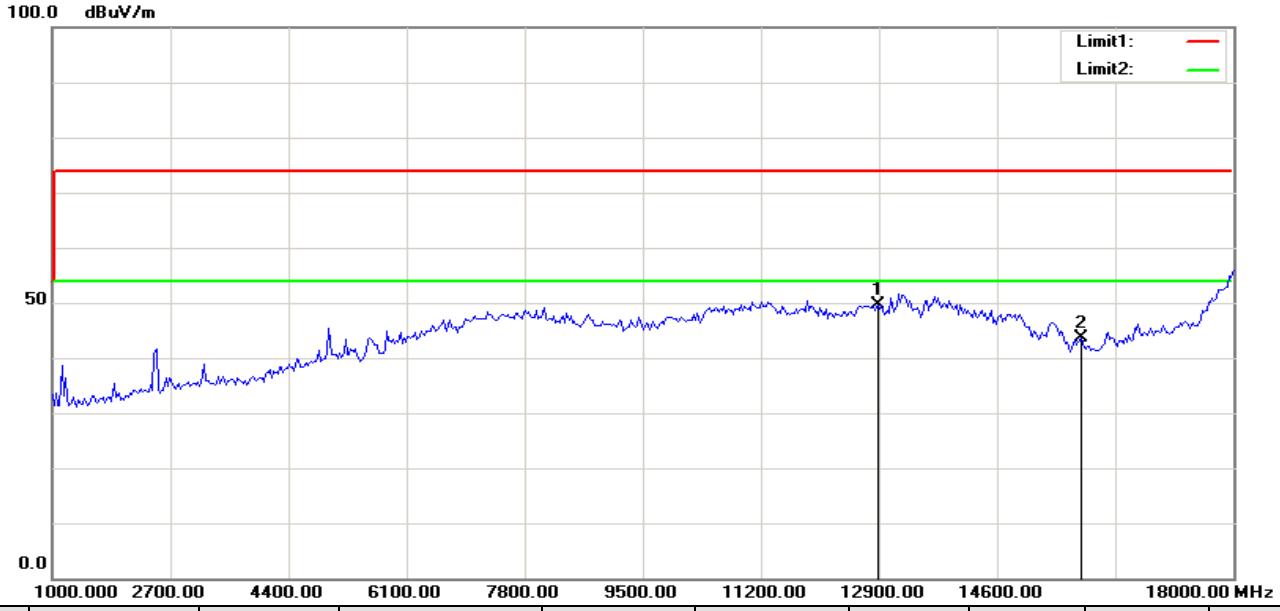
Operation Mode:	TX / IEEE 802.11n HT 20 MHz mode /CH Mid	Test Date:	2016-9-4
Temperature:	25°C	Tested by:	James.Yan
Humidity:	55% RH	Polarity:	Ver. / Hor.

Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	13232.372	39.32	12.46	51.78	74.00	-22.22	100	145	peak
2	16229.167	36.05	8.32	44.37	74.00	-29.63	100	47	peak
3	N/A								

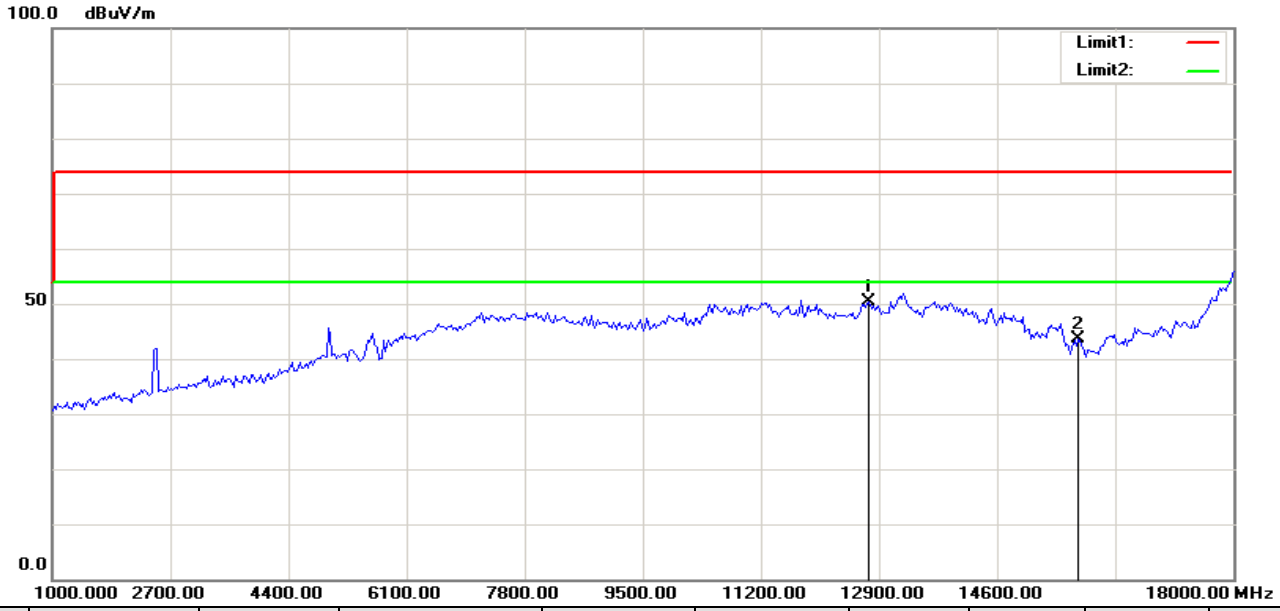
Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	12878.205	37.33	12.31	49.64	74.00	-24.36	100	262	peak
2	15820.513	35.66	8.06	43.72	74.00	-30.28	100	219	peak
3	N/A								

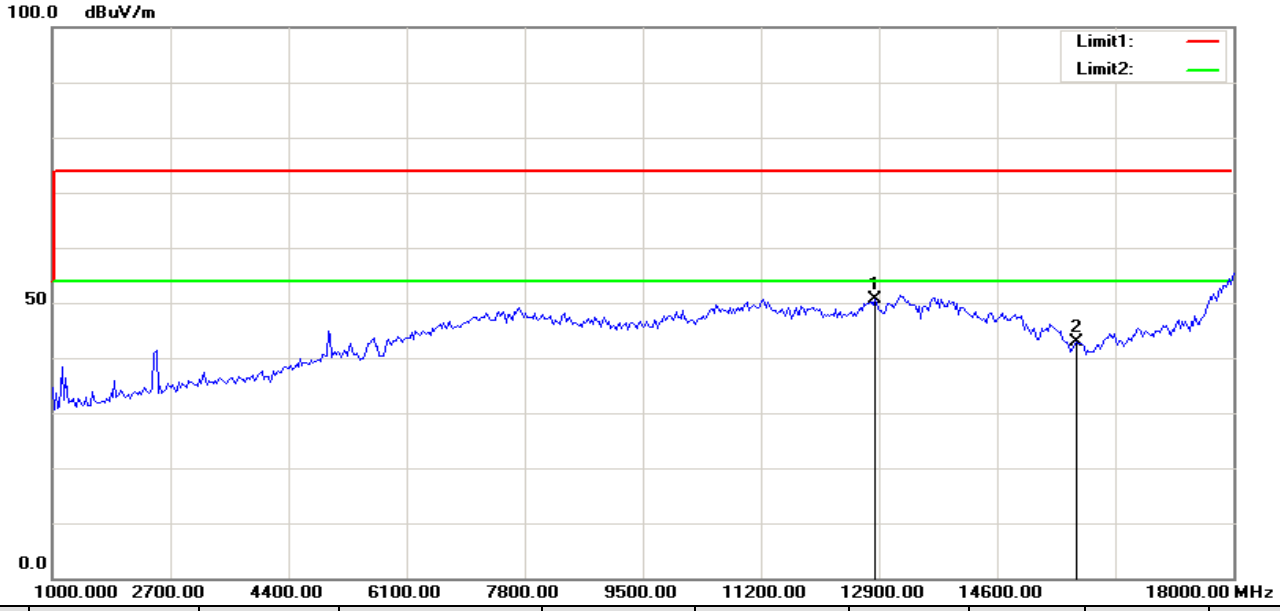
Operation Mode:	TX / IEEE 802.11n HT 20 MHz mode /CH High	Test Date:	2016-9-4
Temperature:	25°C	Tested by:	James.Yan
Humidity:	55% RH	Polarity:	Ver. / Hor.

Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	12741.987	38.30	11.99	50.29	74.00	-23.71	100	212	peak
2	15766.026	35.31	8.27	43.58	74.00	-30.42	100	358	peak
3	N/A								

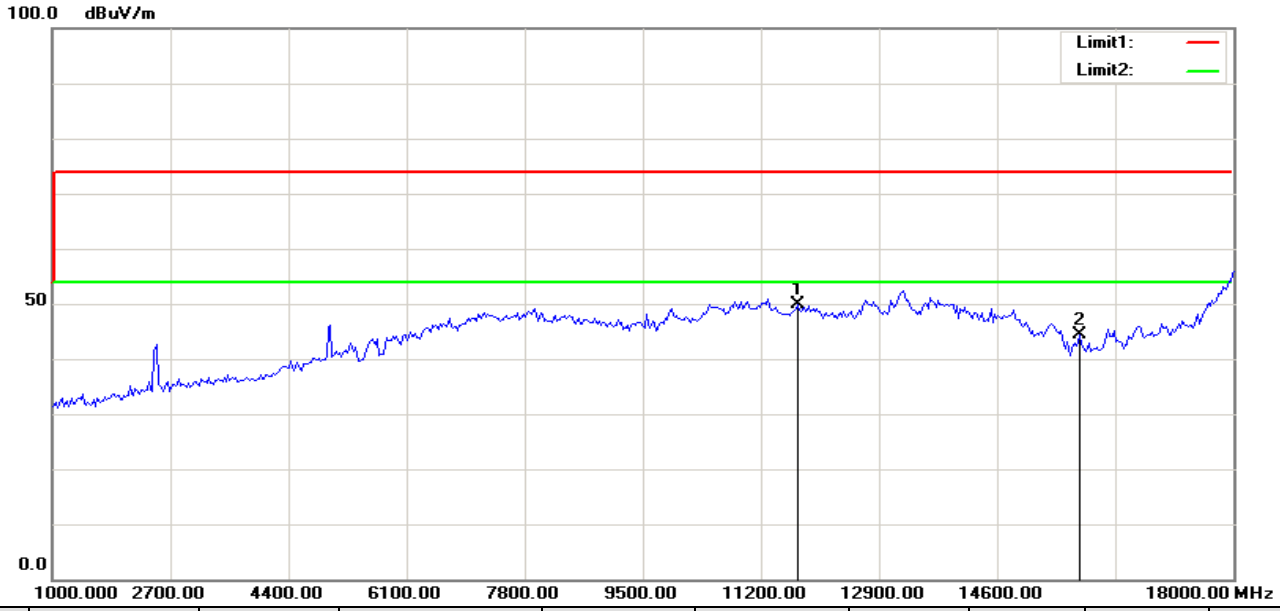
Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	12850.961	38.48	12.25	50.73	74.00	-23.27	100	223	peak
2	15738.782	34.53	8.37	42.90	74.00	-31.10	100	265	peak
3	N/A								

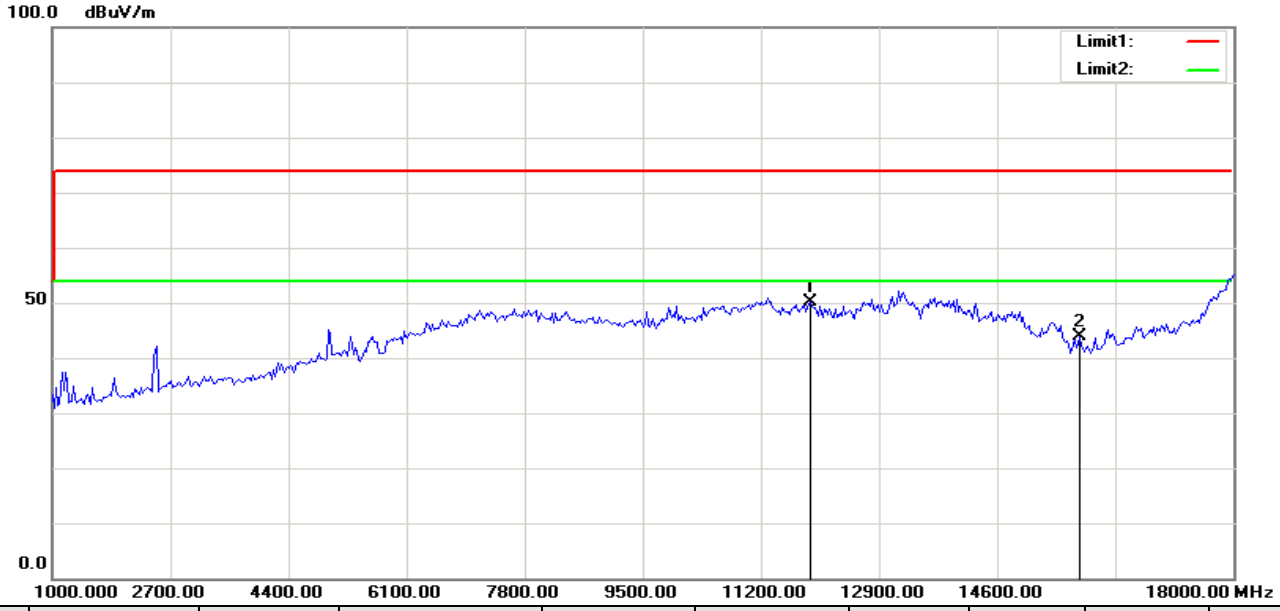
Operation Mode:	TX / IEEE 802.11n HT 40 MHz mode /CH Low	Test Date:	2016-9-4
Temperature:	25°C	Tested by:	James.Yan
Humidity:	55% RH	Polarity:	Ver. / Hor.

Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	11733.974	39.53	10.29	49.82	74.00	-24.18	100	156	peak
2	15793.269	36.21	8.16	44.37	74.00	-29.63	100	108	peak
3	N/A								

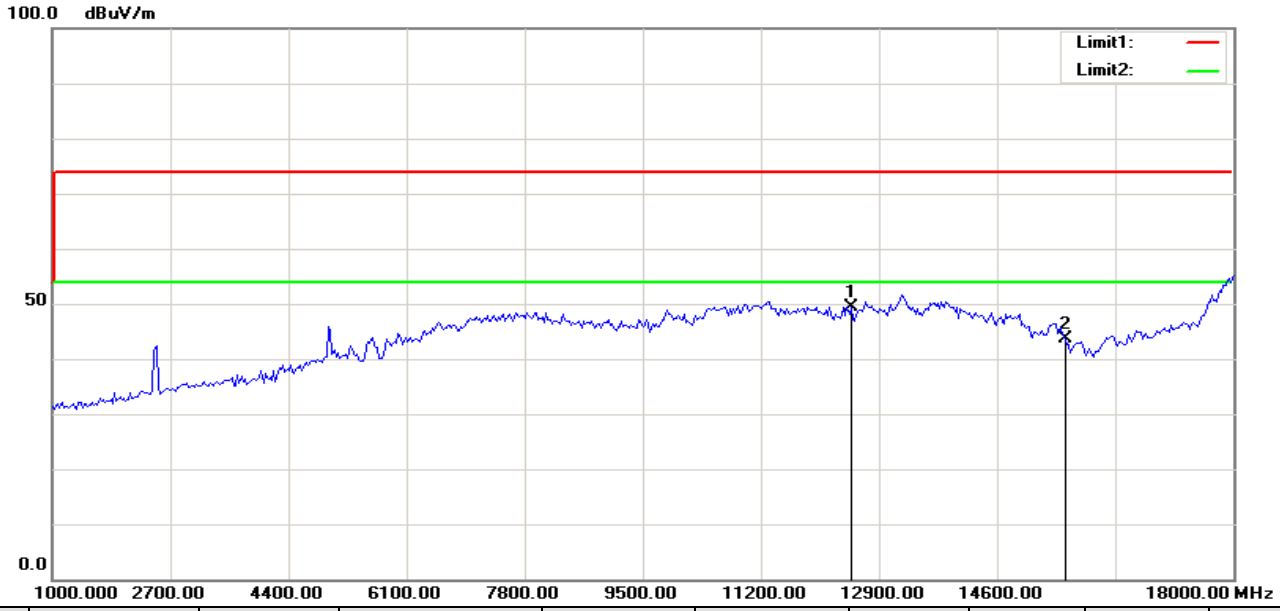
Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	11924.680	39.77	10.28	50.05	74.00	-23.95	100	98	peak
2	15793.269	35.72	8.16	43.88	74.00	-30.12	100	138	peak
3	N/A								

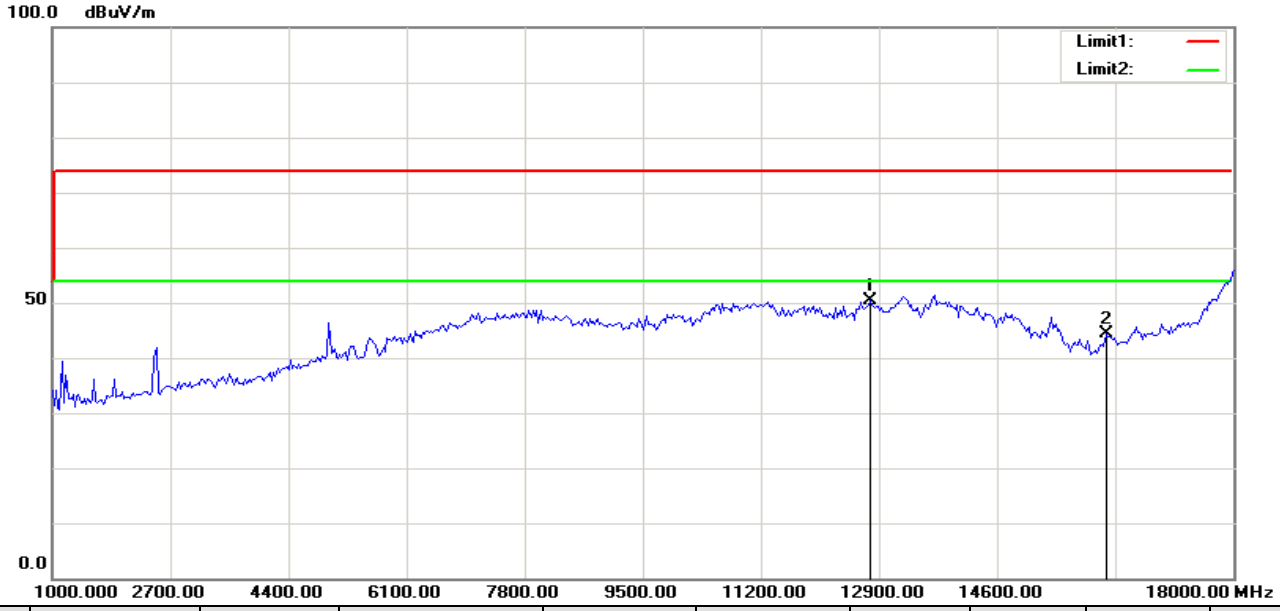
Operation Mode:	TX / IEEE 802.11n HT 40 MHz mode /CH High	Test Date:	2016-9-4
Temperature:	25°C	Tested by:	James.Yan
Humidity:	55% RH	Polarity:	Ver. / Hor.

Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	12496.795	38.04	11.43	49.47	74.00	-24.53	100	133	peak
2	15575.320	34.59	9.01	43.60	74.00	-30.40	100	282	peak
3	N/A								

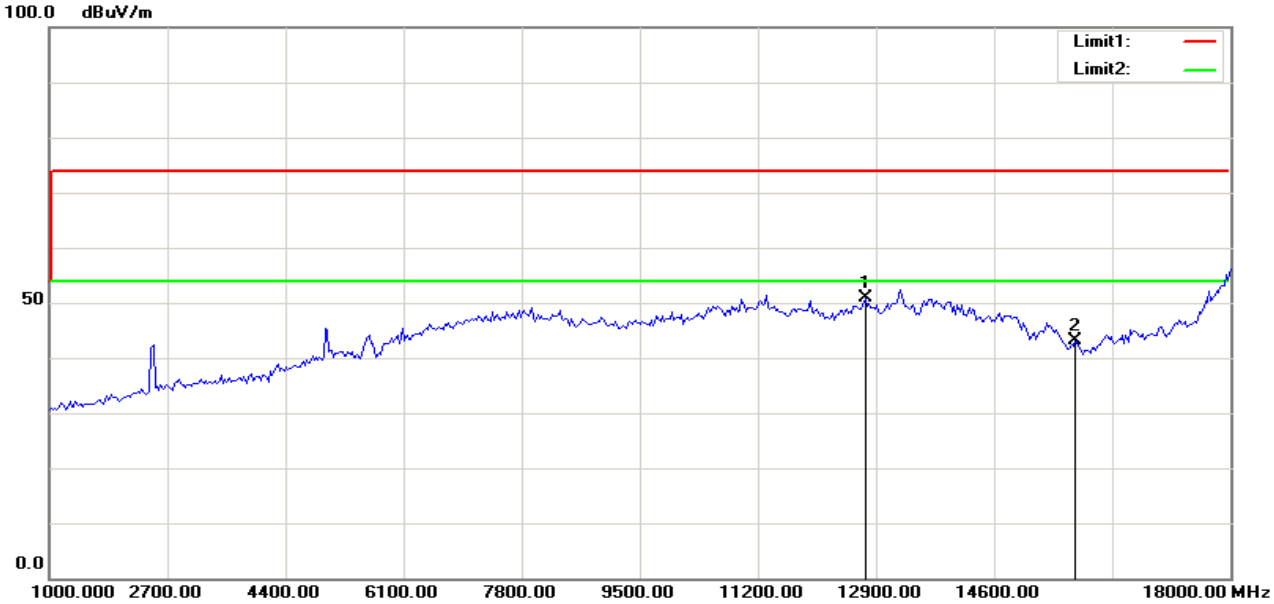
Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	12769.231	38.29	12.06	50.35	74.00	-23.65	100	113	peak
2	16174.680	36.36	8.09	44.45	74.00	-29.55	100	258	peak
3	N/A								

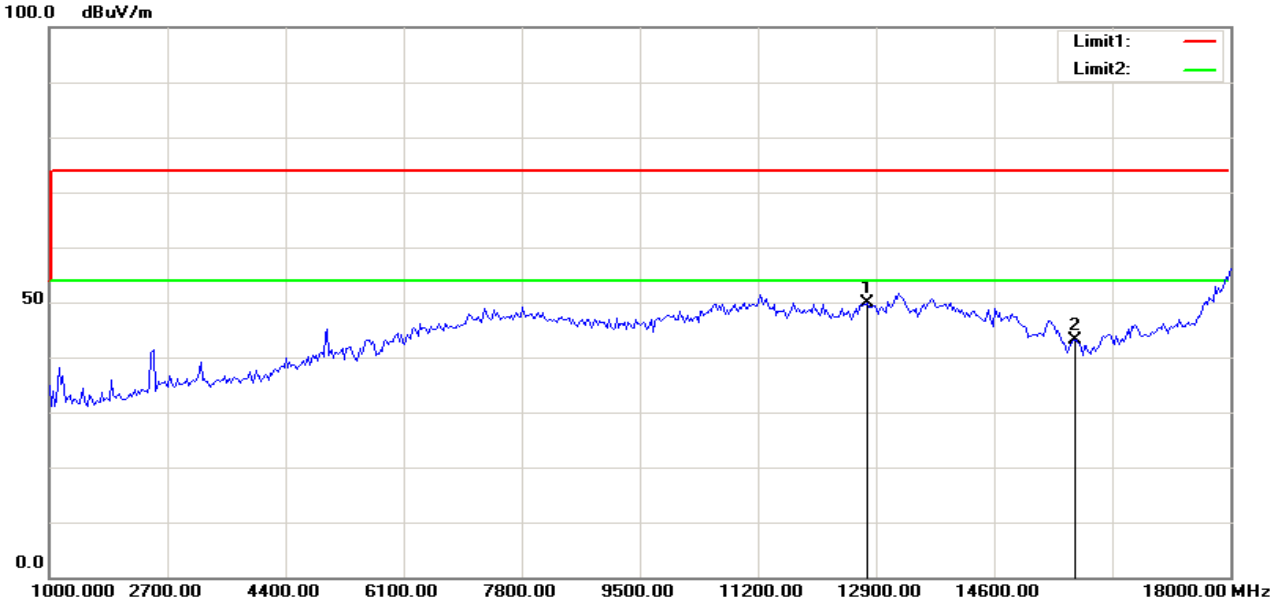
Operation Mode:	TX / IEEE 802.11ac HT80 mode / CH Mid	Test Date:	2016-9-4
Temperature:	25°C	Tested by:	James.Yan
Humidity:	55% RH	Polarity:	Ver. / Hor.

Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	12741.987	38.94	11.99	50.93	74.00	-23.07	100	75	peak
2	15766.026	34.82	8.27	43.09	74.00	-30.91	100	180	peak
3	N/A								

Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	12769.231	37.75	12.06	49.81	74.00	-24.19	100	44	peak
2	15766.026	34.92	8.27	43.19	74.00	-30.81	100	18	peak
3	N/A								

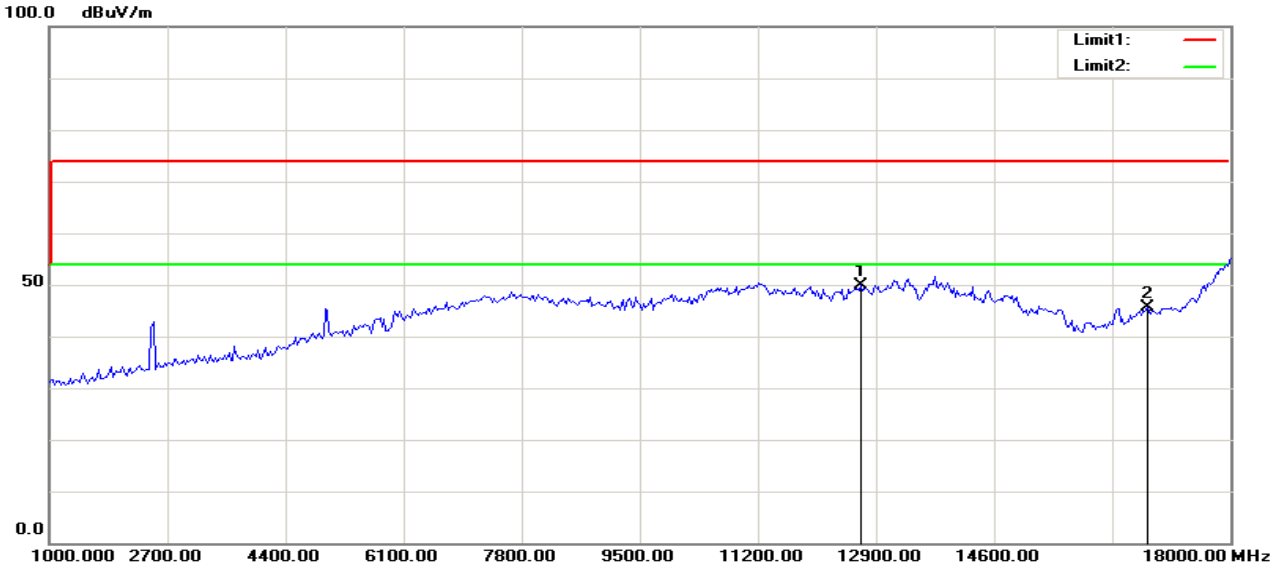
Band IV:5725MHz~5850MHz

Operation Mode: TX / IEEE 802.11a mode / CH Low **Test Date:** 2016-9-4

Temperature: 24°C **Tested by:** James.Yan

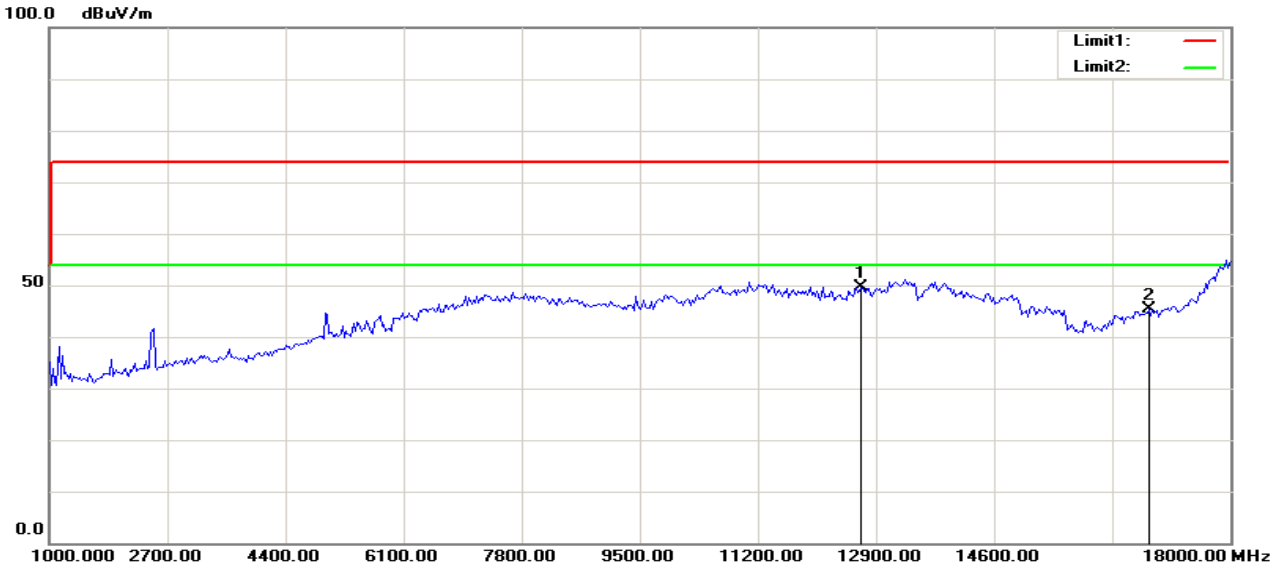
Humidity: 48 % RH **Polarity:** Ver. / Hor.

Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	12687.500	38.12	11.87	49.99	74.00	-24.01	100	280	peak
2	16801.282	34.92	10.70	45.62	74.00	-28.38	100	16	peak
N/A									

Vertical



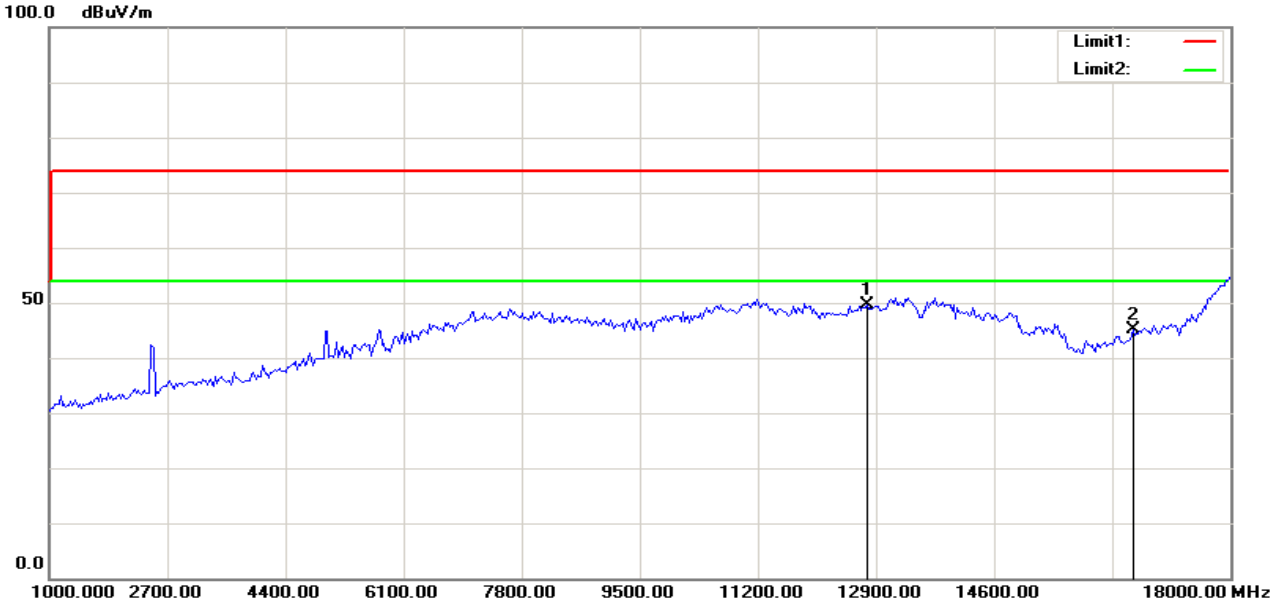
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	12687.500	37.76	11.87	49.63	74.00	-24.37	100	56	peak
2	16828.526	34.60	10.81	45.41	74.00	-28.59	100	298	peak
N/A									

Operation Mode: TX / IEEE 802.11a mode / CH Mid **Test Date:** 2016-9-4

Temperature: 24°C **Tested by:** James.Yan

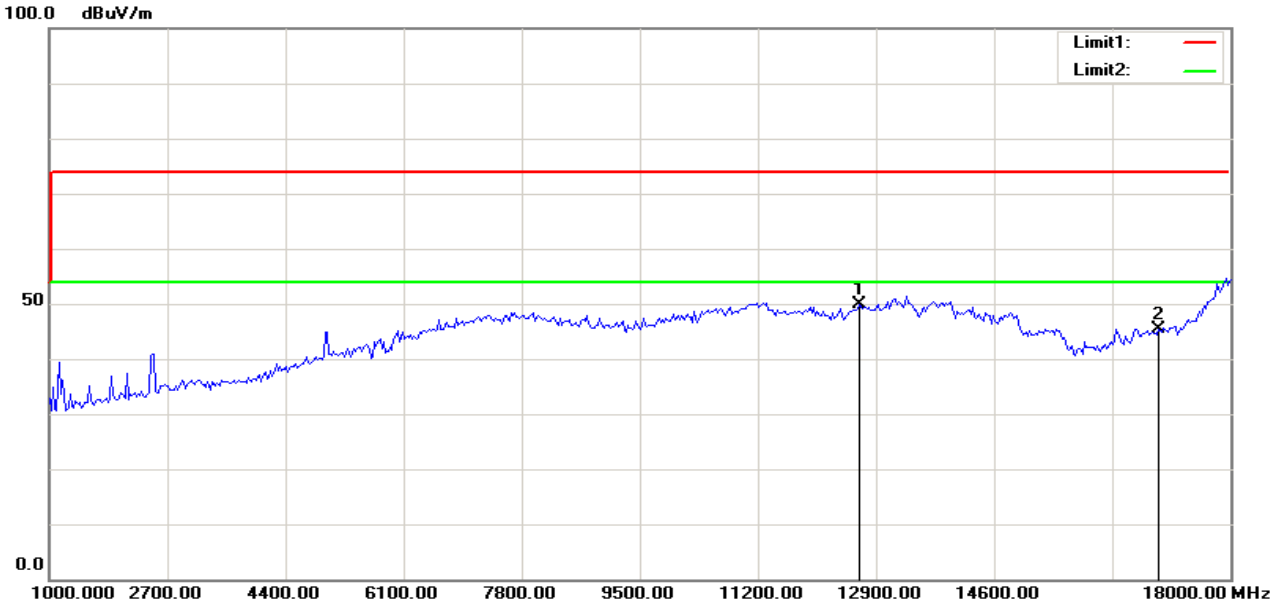
Humidity: 48 % RH **Polarity:** Ver. / Hor.

Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	12769.231	37.46	12.06	49.52	74.00	-24.48	100	281	peak
2	16610.577	35.14	9.91	45.05	74.00	-28.95	100	228	peak
N/A									

Vertical



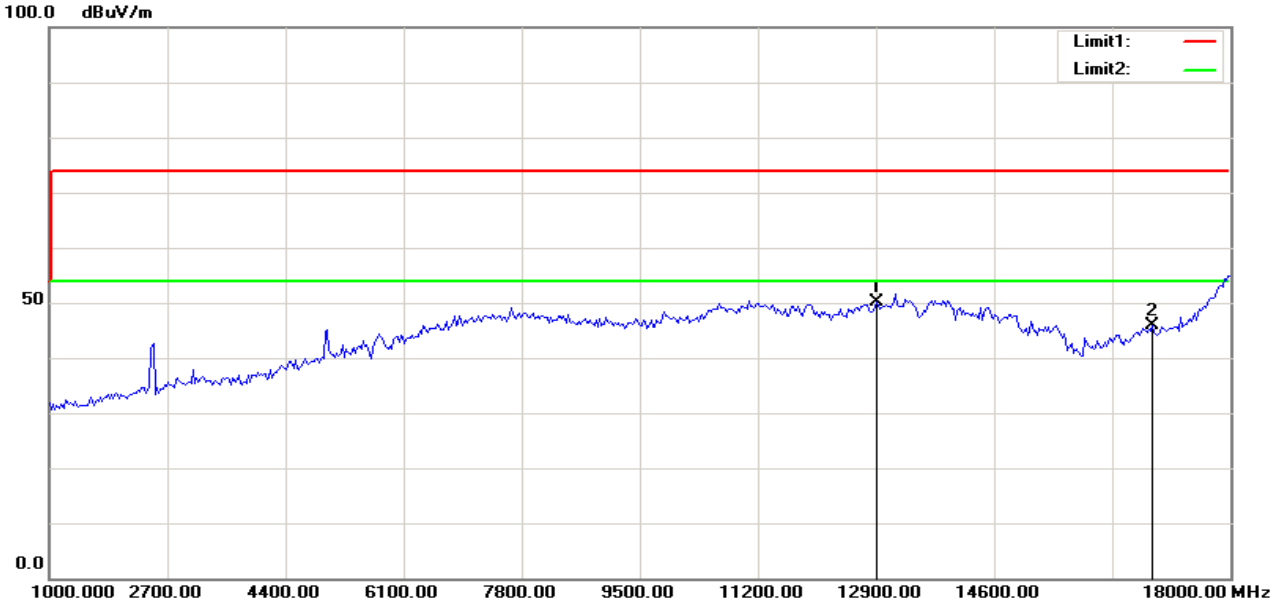
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	12660.256	37.95	11.81	49.76	74.00	-24.24	100	194	peak
2	16964.744	34.05	11.38	45.43	74.00	-28.57	100	309	peak

Operation Mode: TX / IEEE 802.11a mode / CH High **Test Date:** 2016-9-4

Temperature: 24°C **Tested by:** James.Yan

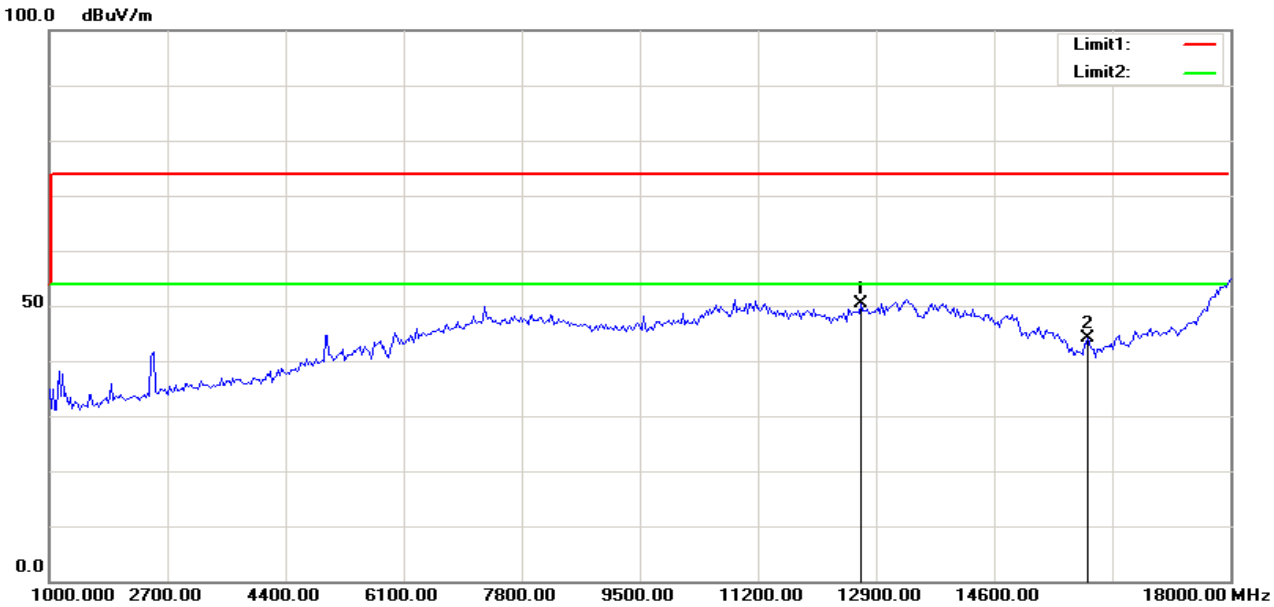
Humidity: 48 % RH **Polarity:** Ver. / Hor.

Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	12905.449	37.64	12.37	50.01	74.00	-23.99	100	50	peak
2	16883.013	34.76	11.04	45.80	74.00	-28.20	100	224	peak
N/A									

Vertical



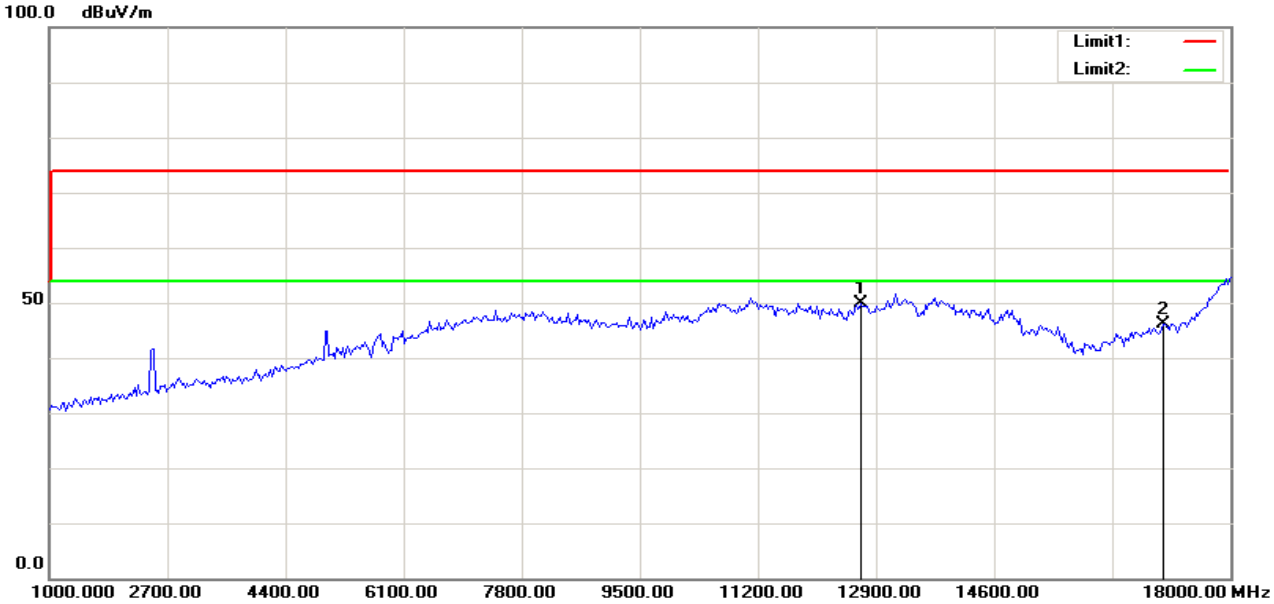
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	12687.500	38.52	11.87	50.39	74.00	-23.61	100	324	peak
2	15956.731	36.69	7.53	44.22	74.00	-29.78	100	221	peak

Operation Mode: TX / IEEE 802.11n HT20 / CH Low **Test Date:** 2016-9-4

Temperature: 24°C **Tested by:** James.Yan

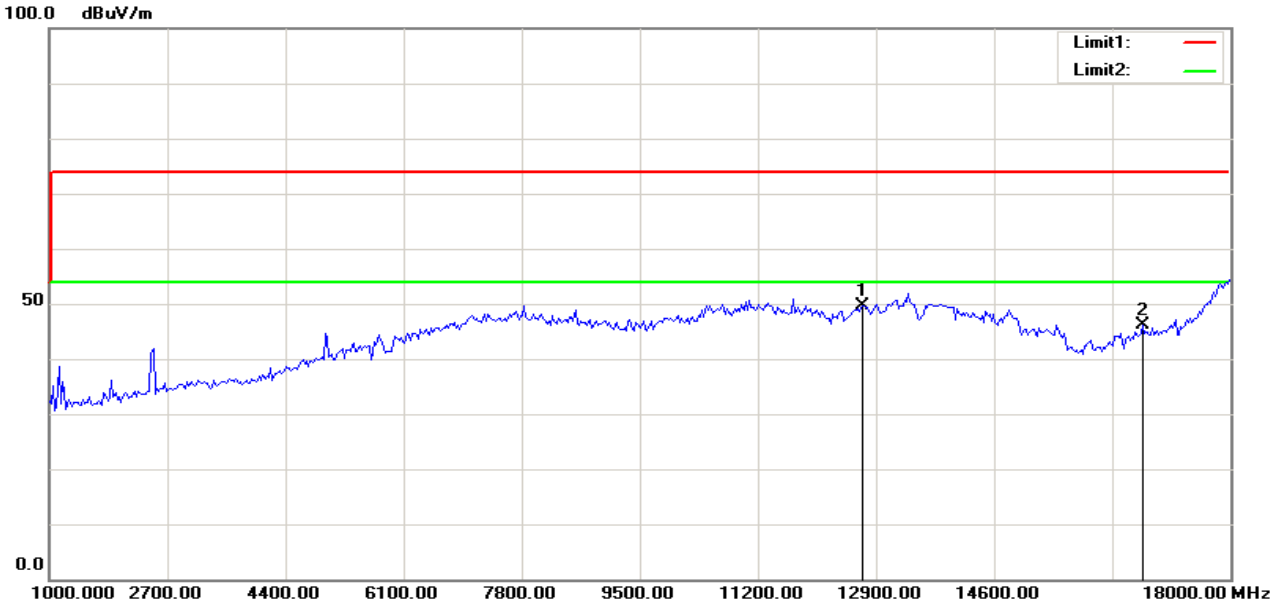
Humidity: 48 % RH **Polarity:** Ver. / Hor.

Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	12687.500	37.96	11.87	49.83	74.00	-24.17	100	170	peak
2	17046.474	34.15	11.97	46.12	74.00	-27.88	100	225	peak
N/A									

Vertical



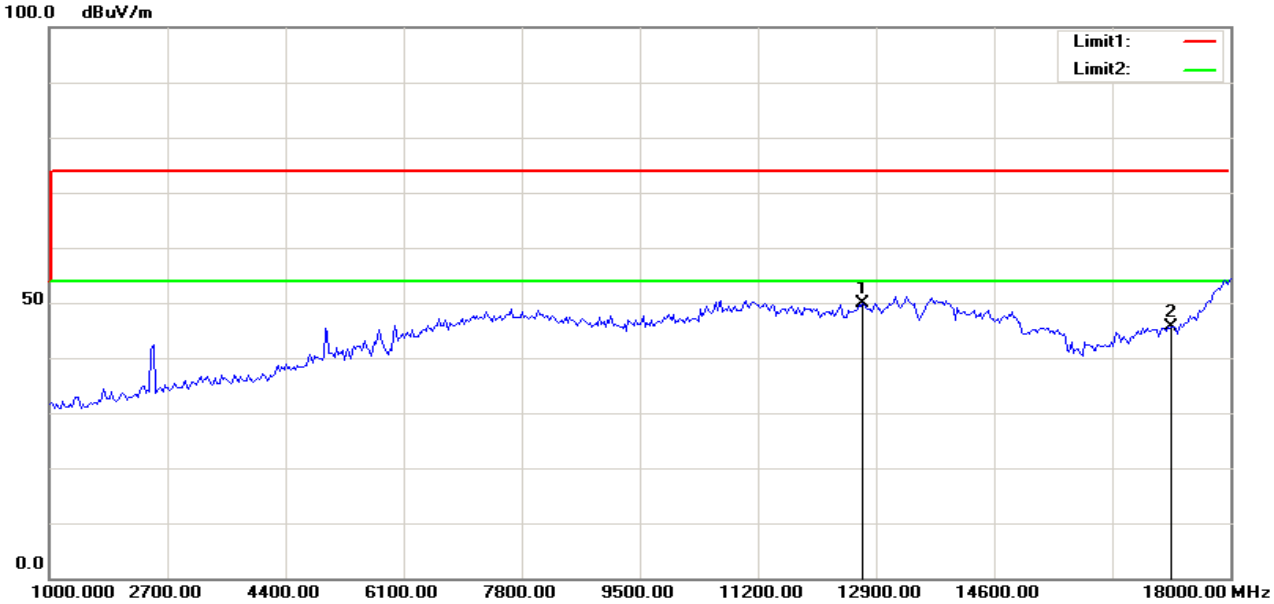
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	12714.744	37.80	11.93	49.73	74.00	-24.27	100	98	peak
2	16746.795	35.70	10.47	46.17	74.00	-27.83	100	314	peak

Operation Mode: TX / IEEE 802.11n HT20 / CH Mid **Test Date:** 2016-9-4

Temperature: 24°C **Tested by:** James.Yan

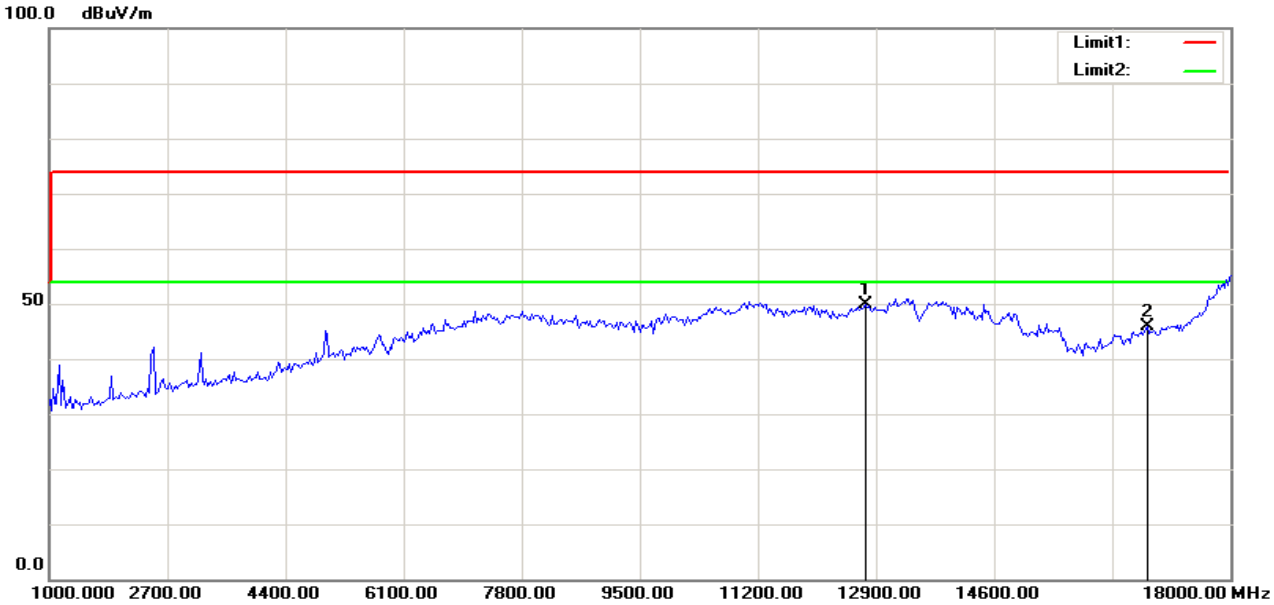
Humidity: 48 % RH **Polarity:** Ver. / Hor.

Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	12714.744	37.83	11.93	49.76	74.00	-24.24	100	161	peak
2	17155.449	32.74	12.99	45.73	74.00	-28.27	100	0	peak
N/A									

Vertical



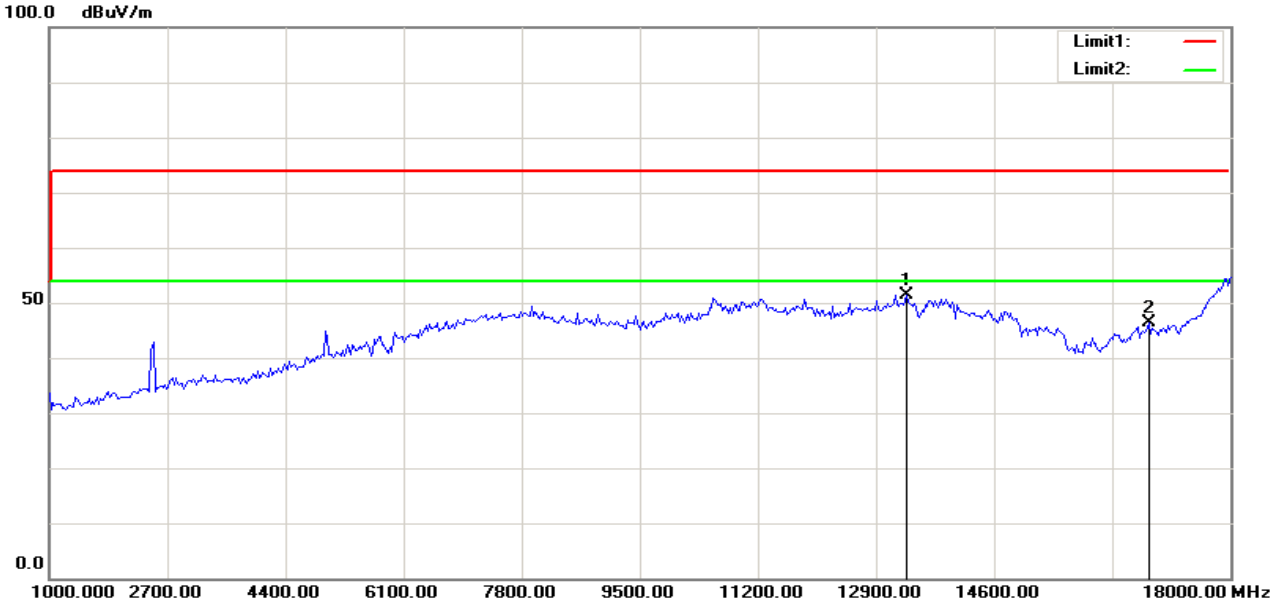
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	12741.987	37.89	11.99	49.88	74.00	-24.12	100	171	peak
2	16801.282	35.08	10.70	45.78	74.00	-28.22	100	48	peak

Operation Mode: TX / IEEE 802.11n HT20 / CH High **Test Date:** 2016-9-4

Temperature: 24°C **Tested by:** James.Yan

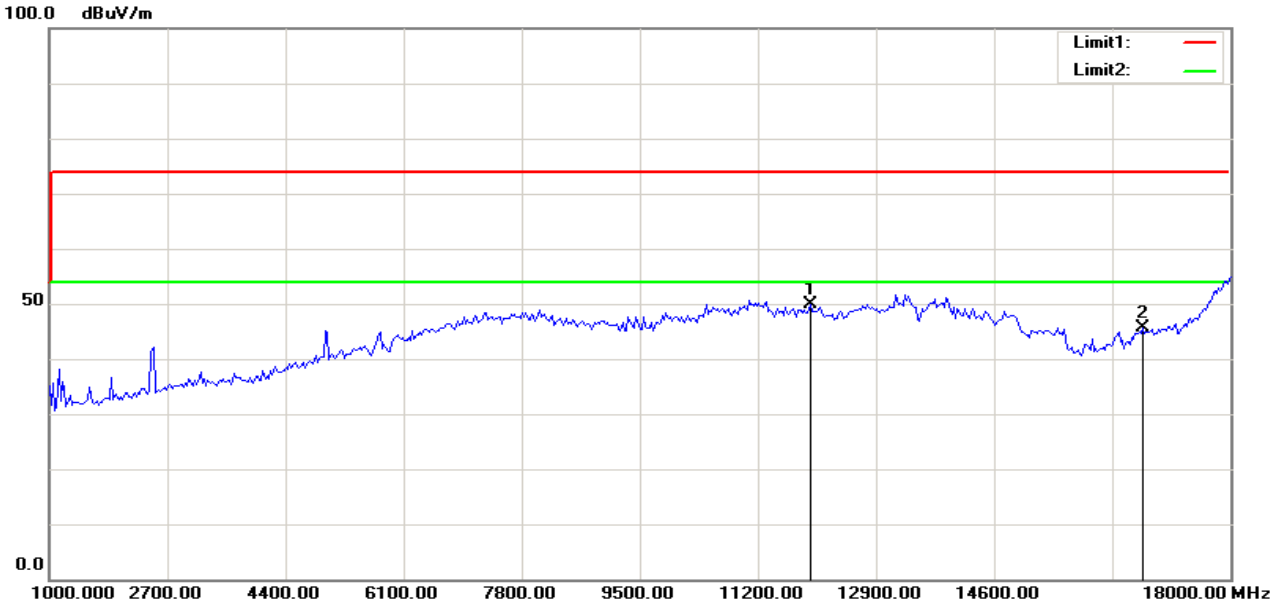
Humidity: 48 % RH **Polarity:** Ver. / Hor.

Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	13341.346	39.04	12.40	51.44	74.00	-22.56	100	360	peak
2	16828.526	35.49	10.81	46.30	74.00	-27.70	100	355	peak
N/A									

Vertical



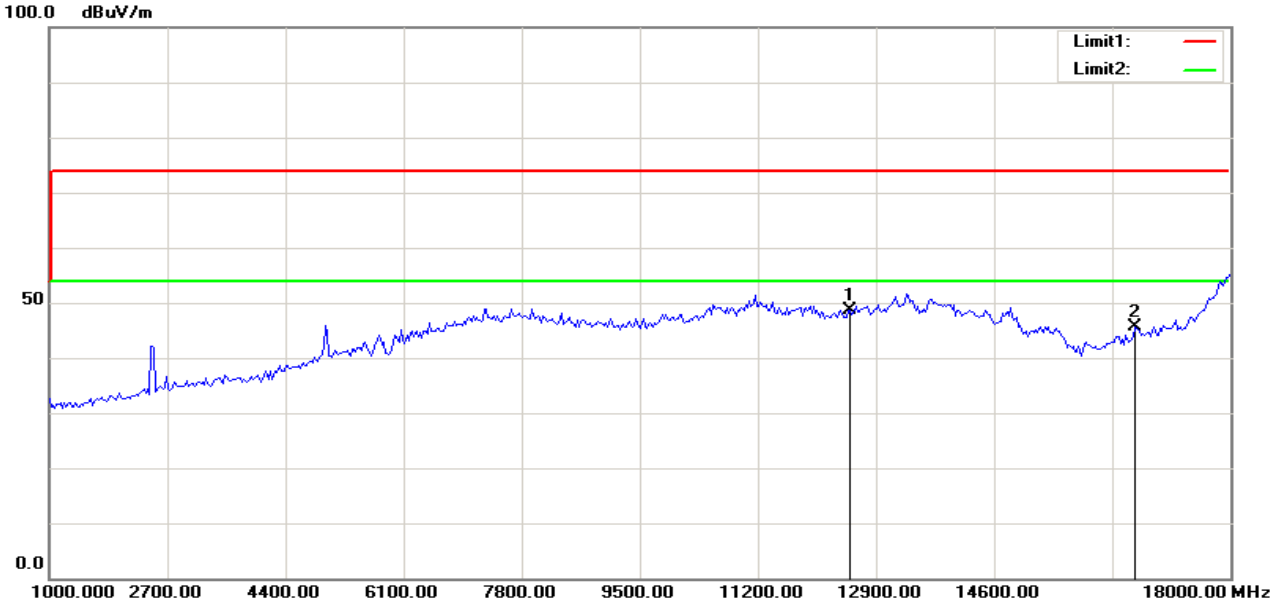
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	11951.923	39.51	10.28	49.79	74.00	-24.21	100	180	peak
2	16746.795	35.11	10.47	45.58	74.00	-28.42	100	54	peak

Operation Mode: TX / IEEE 802.11n HT40 mode / CH Low **Test Date:** 2016-9-4

Temperature: 24°C **Tested by:** James.Yan

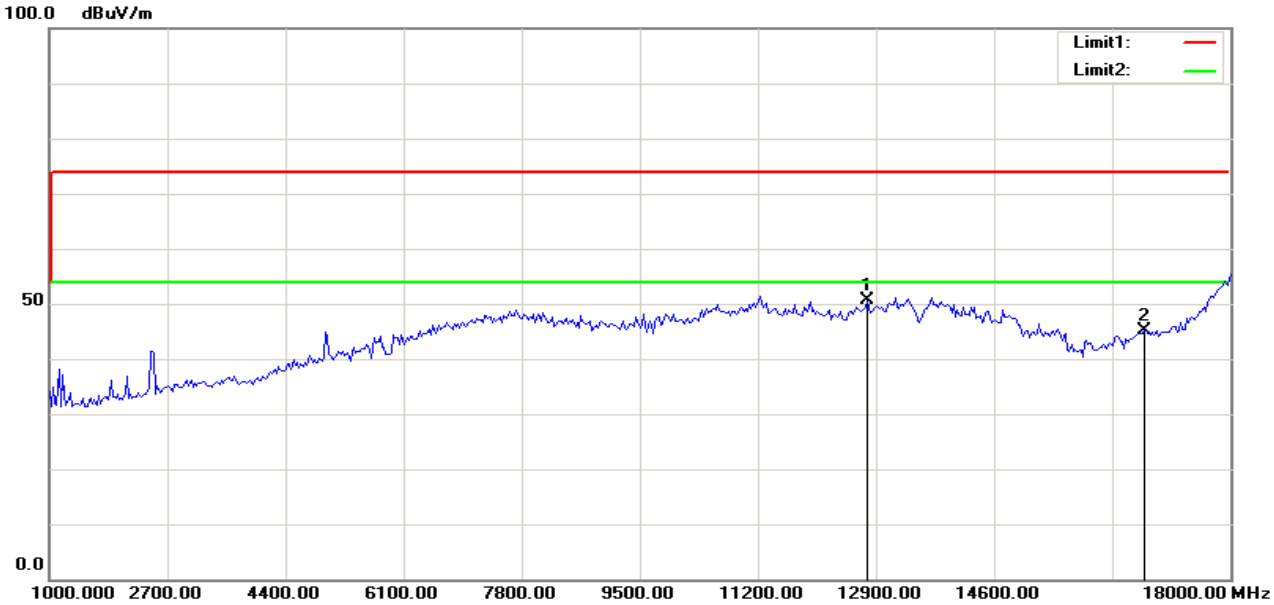
Humidity: 48 % RH **Polarity:** Ver. / Hor.

Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	12524.039	37.24	11.49	48.73	74.00	-25.27	100	1	peak
2	16637.821	35.54	10.02	45.56	74.00	-28.44	100	116	peak
N/A									

Vertical



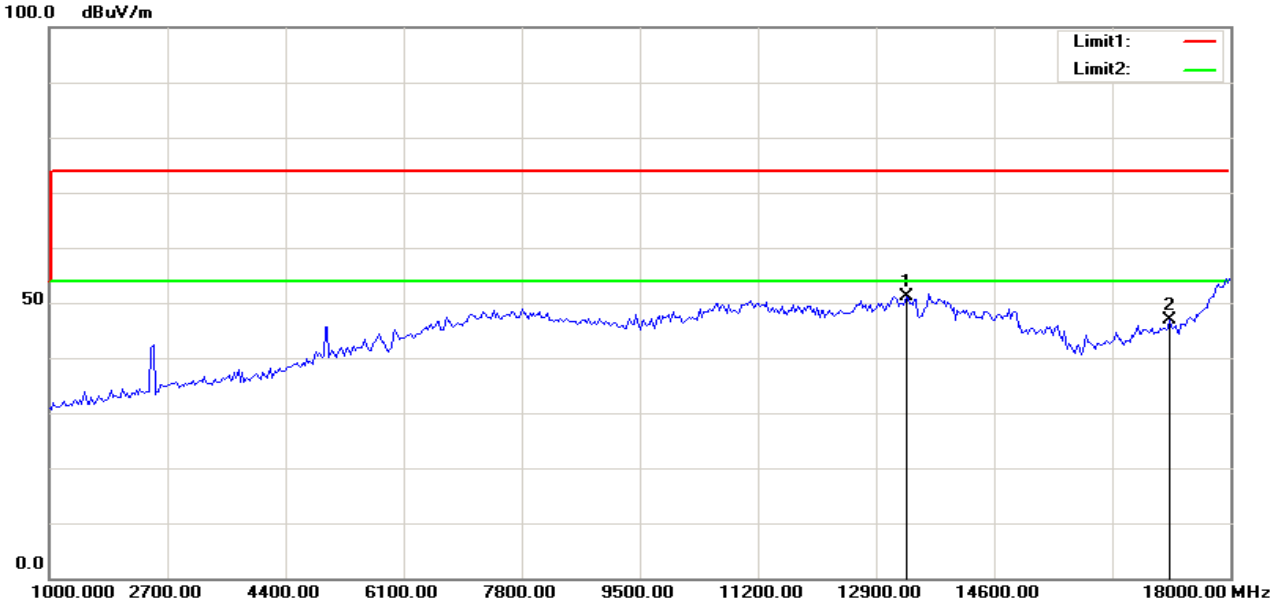
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	12769.231	38.51	12.06	50.57	74.00	-23.43	100	64	peak
2	16774.038	34.50	10.59	45.09	74.00	-28.91	100	219	peak

Operation Mode: TX / IEEE 802.11n HT40 mode / CH High **Test Date:** 2016-9-4

Temperature: 24°C **Tested by:** James.Yan

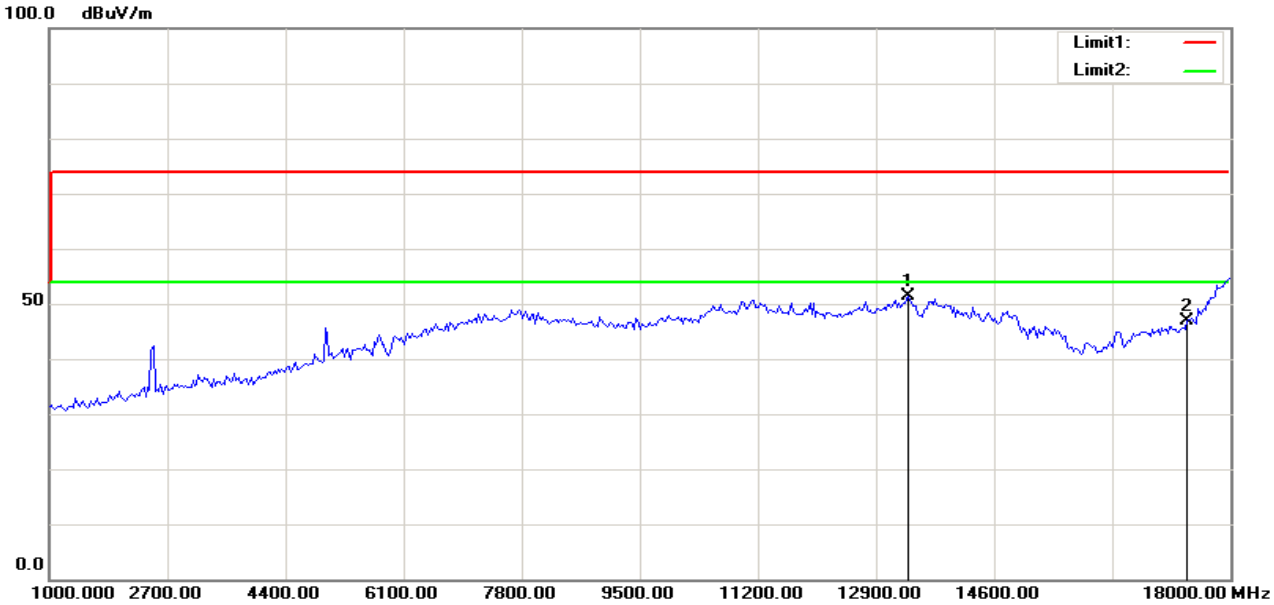
Humidity: 48 % RH **Polarity:** Ver. / Hor.

Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	13341.346	38.79	12.40	51.19	74.00	-22.81	100	190	peak
2	17128.205	34.04	12.73	46.77	74.00	-27.23	100	62	peak
N/A									

Vertical



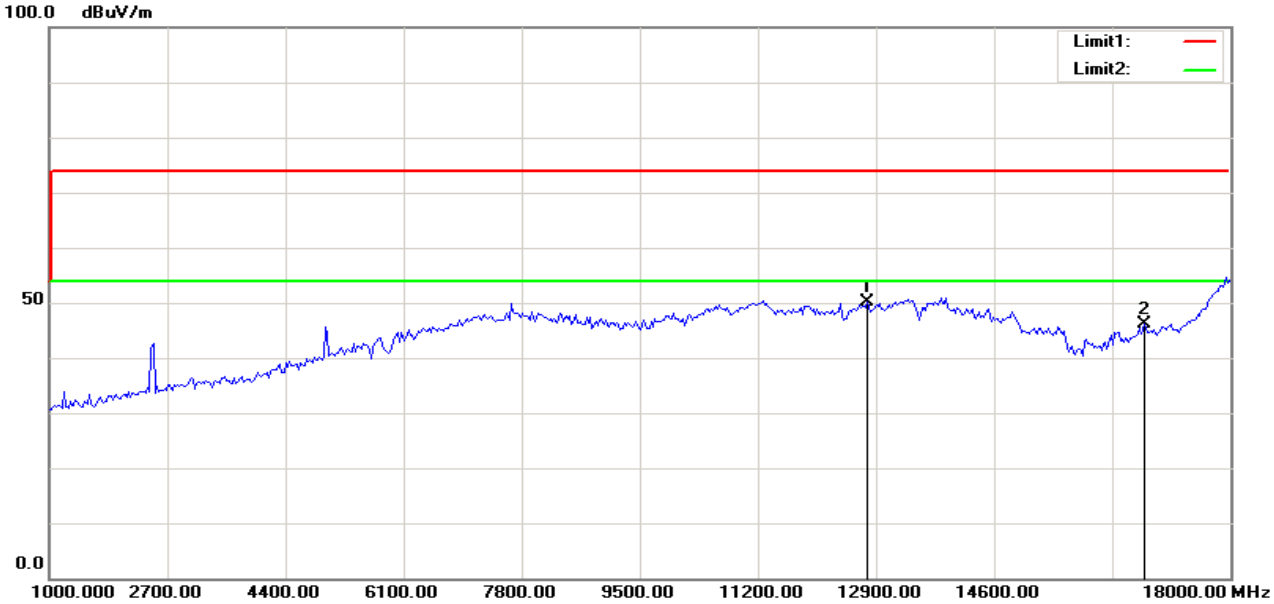
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	13368.590	39.06	12.39	51.45	74.00	-22.55	100	0	peak
2	17373.397	31.85	15.04	46.89	74.00	-27.11	100	278	peak

Operation Mode: TX / IEEE 802.11ac HT80 mode / CH Mid **Test Date:** 2016-9-4

Temperature: 24°C **Tested by:** James.Yan

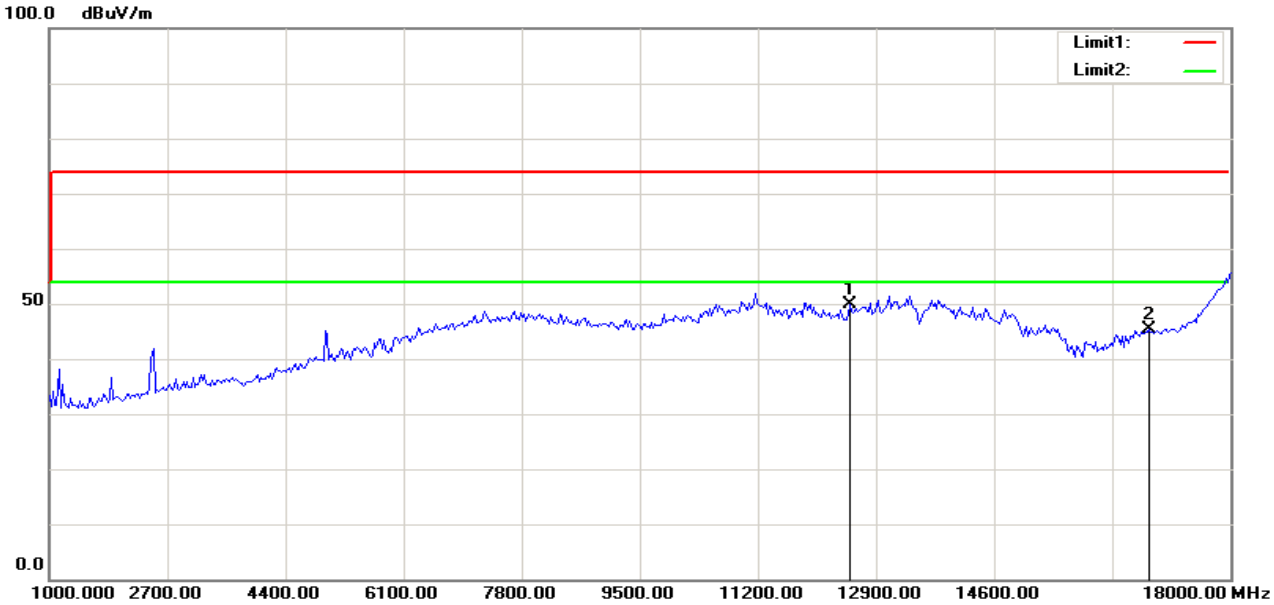
Humidity: 48 % RH **Polarity:** Ver. / Hor.

Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	12769.231	38.02	12.06	50.08	74.00	-23.92	100	213	peak
2	16774.038	35.44	10.59	46.03	74.00	-27.97	100	34	peak
N/A									

Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	12524.039	38.40	11.49	49.89	74.00	-24.11	100	131	peak
2	16828.526	34.48	10.81	45.29	74.00	-28.71	100	54	peak

Above 18GHz

The interference of the frequency value is lower than the limit below 20 db, measured as the background noise values and will not be recorded.

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 3 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

END OF REPORT