

FCC RADIO TEST REPORT

FCC 47 CFR PART 15 SUBPART E

INDUSTRY CANADA RSS-247

(CLASS II PERMISSIVE CHANGE)

Test Standard	FCC Part 15.407+ IC RSS-247 issue 2 and IC RSS-GEN issue 5
Brand name	DURABOOK
Product name	module
Model No.	9260NGW
Test Result	Pass

The test Result was tested by Compliance Certification Services Inc. The test data, data evaluation, test procedures, and equipment configurations shown in this report were given in ANSI C63.10: 2013 and compliance standards.

The test results of this report relate only to the tested sample (EUT) identified in this report.

The test Report of full or partial shall not copy. Without written approval of Compliance Certification Services Inc.(Wugu Laboratory)

Approved by:

Tested by:



Kevin Tsai
Deputy Manager

Jerry Chuang
Engineer

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部分複製。

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Revision History

Rev.	Issue Date	Revisions	Revised By
00	January 29, 2019	Initial Issue	Allison Chen



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1. GENERAL INFORMATION

1.1 EUT INFORMATION

Applicant	TWINHEAD INTERNATIONAL CORP. 11F, No 550, Rueiguang Rd , Neihu, Taipei, Taiwan 11492, R.O.C.																																																																																					
Equipment	module																																																																																					
Model No.	9260NGW																																																																																					
Model Discrepancy	N/A																																																																																					
Received Date	September 18, 2018																																																																																					
Date of Test	November 6 ~ 21, 2018																																																																																					
Power Supply	1. Power from AC Adapter FSP / FSP090-DIEBN2 Input: 100-240Vac, 1.5A, 50-60Hz Output: 19Vdc, 4.74A 2. Power from Battery																																																																																					
Output Power(W)	<table><tr><th>Band</th><th>Mode</th><th>Frequency Range (MHz)</th><th>Output Power (W)</th><th>EIRP Power (W)</th></tr><tr><td rowspan="5">U-NII-1</td><td>IEEE 802.11a</td><td>5180 ~ 5240</td><td>0.0652</td><td>0.0723</td></tr><tr><td>IEEE 802.11n HT 20</td><td>5180 ~ 5240</td><td>0.1204</td><td>0.1335</td></tr><tr><td>IEEE 802.11n HT 40</td><td>5190 ~ 5230</td><td>0.1013</td><td>0.1124</td></tr><tr><td>IEEE 802.11ac VHT 80</td><td>5210</td><td>0.0681</td><td>0.0755</td></tr><tr><td>IEEE 802.11ac VHT 160</td><td>5250</td><td>0.0240</td><td>0.0266</td></tr><tr><td rowspan="4">U-NII-2a</td><td>IEEE 802.11a</td><td>5260 ~ 5320</td><td>0.0908</td><td>0.1007</td></tr><tr><td>IEEE 802.11n HT 20</td><td>5260 ~ 5320</td><td>0.1205</td><td>0.1337</td></tr><tr><td>IEEE 802.11n HT 40</td><td>5270 ~ 5310</td><td>0.1009</td><td>0.1119</td></tr><tr><td>IEEE 802.11ac VHT 80</td><td>5290</td><td>0.0687</td><td>0.0762</td></tr><tr><td rowspan="5">U-NII-2c</td><td>IEEE 802.11a</td><td>5500 ~ 5700</td><td>0.0560</td><td>0.0621</td></tr><tr><td>IEEE 802.11n HT 20</td><td>5500 ~ 5700</td><td>0.0759</td><td>0.0841</td></tr><tr><td>IEEE 802.11n HT 40</td><td>5510 ~ 5670</td><td>0.0679</td><td>0.0753</td></tr><tr><td>IEEE 802.11ac VHT 80</td><td>5530 ~ 5610</td><td>0.0262</td><td>0.0290</td></tr><tr><td>IEEE 802.11ac VHT 160</td><td>5570</td><td>0.1222</td><td>0.1355</td></tr><tr><td rowspan="4">U-NII-3</td><td>IEEE 802.11a</td><td>5745 ~ 5825</td><td>0.0955</td><td>-</td></tr><tr><td>IEEE 802.11n HT 20</td><td>5745 ~ 5825</td><td>0.1140</td><td>-</td></tr><tr><td>IEEE 802.11n HT 40</td><td>5755 ~ 5795</td><td>0.1140</td><td>-</td></tr><tr><td>IEEE 802.11ac VHT 80</td><td>5775</td><td>0.0574</td><td>-</td></tr></table>					Band	Mode	Frequency Range (MHz)	Output Power (W)	EIRP Power (W)	U-NII-1	IEEE 802.11a	5180 ~ 5240	0.0652	0.0723	IEEE 802.11n HT 20	5180 ~ 5240	0.1204	0.1335	IEEE 802.11n HT 40	5190 ~ 5230	0.1013	0.1124	IEEE 802.11ac VHT 80	5210	0.0681	0.0755	IEEE 802.11ac VHT 160	5250	0.0240	0.0266	U-NII-2a	IEEE 802.11a	5260 ~ 5320	0.0908	0.1007	IEEE 802.11n HT 20	5260 ~ 5320	0.1205	0.1337	IEEE 802.11n HT 40	5270 ~ 5310	0.1009	0.1119	IEEE 802.11ac VHT 80	5290	0.0687	0.0762	U-NII-2c	IEEE 802.11a	5500 ~ 5700	0.0560	0.0621	IEEE 802.11n HT 20	5500 ~ 5700	0.0759	0.0841	IEEE 802.11n HT 40	5510 ~ 5670	0.0679	0.0753	IEEE 802.11ac VHT 80	5530 ~ 5610	0.0262	0.0290	IEEE 802.11ac VHT 160	5570	0.1222	0.1355	U-NII-3	IEEE 802.11a	5745 ~ 5825	0.0955	-	IEEE 802.11n HT 20	5745 ~ 5825	0.1140	-	IEEE 802.11n HT 40	5755 ~ 5795	0.1140	-	IEEE 802.11ac VHT 80	5775	0.0574	-
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Class II Permissive Change	1. The subject approved module is being used in a specific host. [Product: Tablet PC, brand name: DURABOOK, FCC model:/ R11XXXXXX (X=0-9, A-Z, a-z, Blank), IC model: R11AH6] 2. Power reduction per tune-up procedure is applied in order to comply with exposure requirements.																																																																																					

1.2 EUT CHANNEL INFORMATION

Frequency Range	UNII-1	
	IEEE 802.11a	5180 ~ 5240 MHz
	IEEE 802.11n HT 20	5180 ~ 5240 MHz
	IEEE 802.11n HT 40	5190 ~ 5230 MHz
	IEEE 802.11ac VHT 80	5210 MHz
	IEEE 802.11ac VHT 160	5250 MHz
	UNII-2a	
	IEEE 802.11a	5260 ~ 5320 MHz
	IEEE 802.11n HT 20	5260 ~ 5320 MHz
	IEEE 802.11n HT 40	5270 ~ 5310 MHz
	IEEE 802.11ac VHT 80	5290 MHz
	UNII-2c	
	IEEE 802.11a	5500 ~ 5700 MHz
	IEEE 802.11n HT 20	5500 ~ 5700 MHz
	IEEE 802.11n HT 40	5510 ~ 5670 MHz
	IEEE 802.11ac VHT 80	5530 ~ 5610 MHz
	IEEE 802.11ac VHT 160	5570 MHz
	UNII-3	
	IEEE 802.11a	5745 ~ 5825 MHz
	IEEE 802.11n HT 20	5745 ~ 5825 MHz
	IEEE 802.11n HT 40	5755 ~ 5795 MHz
	IEEE 802.11ac VHT 80	5775 MHz
Modulation Type	1. IEEE 802.11a mode: OFDM 2. IEEE 802.11n HT 20 mode: OFDM 3. IEEE 802.11n HT 40 mode: OFDM 4. IEEE 802.11ac VHT 80 mode: OFDM 5. IEEE 802.11ac VHT 160 mode: OFDM	

Remark:

Refer as ANSI 63.10:2013 clause 5.6.1 Table 4 for test channels.

Number of frequencies to be tested		
Frequency range in which device operates	Number of frequencies	Location in frequency range of operation
☐ 1 MHz or less	1	Middle
☐ 1 MHz to 10 MHz	2	1 near top and 1 near bottom
☒ More than 10 MHz	3	1 near top, 1 near middle, and 1 near bottom

1.3 ANTENNA INFORMATION

Antenna Type	☒ PIFA ☐ PCB ☐ Dipole ☐ Coils
Antenna Gain	Durabook Americas inc P/N: TWAH6WIPB01+A / -1.18 dBi TWAH6WIPB02+A / -0.44 dBi Power Directional Gain: 0.45dBi
Antenna Connector	I-PEX MHF4L

Notes:

1. Power Directional Gain: $10\text{LOG}(((10^{(Ant1/10)}+10^{(Ant2/10)}))/2))$

1.4 MEASUREMENT UNCERTAINTY

PARAMETER	UNCERTAINTY
AC Powerline Conducted Emission	+/- 1.2575
Emission bandwidth, 20dB bandwidth	+/- 0.0014
RF output power, conducted	+/- 1.14
Power density, conducted	+/- 1.40
3M Semi Anechoic Chamber / 30M~200M	+/- 4.12
3M Semi Anechoic Chamber / 200M~1000M	+/- 4.68
3M Semi Anechoic Chamber / 1G~8G	+/- 5.18
3M Semi Anechoic Chamber / 8G~18G	+/- 5.47
3M Semi Anechoic Chamber / 18G~26G	+/- 3.81
3M Semi Anechoic Chamber / 26G~40G	+/- 3.87

Remark:

1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$

2. ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report.

1.5 FACILITIES AND TEST LOCATION

All measurement facilities used to collect the measurement data are located at
No.11, Wugong 6th Rd., Wugu Dist., New Taipei City 24891, Taiwan. (R.O.C.)

Test site	Test Engineer	Remark
AC Conduction Room	Dally Hong	-
Radiation	Jerry Chuang	-
RF Conducted	Dally Hong	-

Remark: The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 and CISPR Publication 22.

1.6 INSTRUMENT CALIBRATION

RF Conducted Test Site					
Equipment	Manufacturer	Model	S/N	Cal Date	Cal Due
Coaxial Cable	Woken	WC12	CC001	06/29/2018	06/28/2019
Power Meter	Anritsu	ML2495A	1149001	02/06/2018	02/05/2019
Power Seneor	Anritsu	MA2491A	030982	02/07/2018	02/06/2019
Signal Analyzer	R&S	FSV 40	101073	09/27/2018	09/26/2019

3M 966 Chamber Test Site					
Equipment	Manufacturer	Model	S/N	Cal Date	Cal Due
Bilog Antenna	Sunol Sciences	JB3	A030105	07/13/2018	07/12/2019
Cable	HUBER SUHNER	SUCOFLEX 104PEA	25157	06/29/2018	06/28/2019
Cable	HUBER SUHNER	SUCOFLEX 104PEA	20995	06/29/2018	06/28/2019
Digital Thermo-Hygro Meter	WISEWIND	1206	D07	02/08/2018	02/07/2019
double Ridged Guide Horn Antenna	ETC	MCTD 1209	DRH13M02003	08/20/2018	08/19/2019
High Pass Filters	MICRO TRONICS	HPM13195	003	05/14/2018	05/13/2019
Horn Antenna	ETS LINDGREN	3116	00026370	01/04/2018	01/03/2019
Loop Ant	COM-POWER	AL-130	121051	03/21/2018	03/20/2019
Pre-Amplifier	EMEC	EM330	060609	06/29/2018	06/28/2019
Pre-Amplifier	MITEQ	AMF-6F-260400-40-8P	985646	06/21/2018	06/20/2019
Pre-Amplifier	HP	8449B	3008A00965	06/29/2018	06/28/2019
PSA Series Spectrum Analyzer	Agilent	E4446A	MY46180323	05/31/2018	05/30/2019
Antenna Tower	CCS	CC-A-1F	N/A	N.C.R	N.C.R
Controller	CCS	CC-C-1F	N/A	N.C.R	N.C.R
Turn Table	CCS	CC-T-1F	N/A	N.C.R	N.C.R

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



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AC Line Conducted Test Site					
Equipment	Manufacturer	Model	S/N	Cal Date	Cal Due
CABLE	EMCI	CFD300-NL	CERF	06/29/2018	06/28/2019
EMI Test Receiver	R&S	ESCI	100064	07/24/2018	07/23/2019
LISN	SCHWARZBECK	NSLK 8127	8127-541	02/09/2018	02/08/2019
LISN	SCHAFFNER	NNB41	03/10013	02/06/2018	02/05/2019

1.7 SUPPORT AND EUT ACCESSORIES EQUIPMENT

EUT Accessories Equipment					
No.	Equipment	Brand	Model	Series No.	FCC ID
	N/A				

Support Equipment					
No.	Equipment	Brand	Model	Series No.	FCC ID

1.8 TEST METHODOLOGY AND APPLIED STANDARDS

The test methodology, setups and results comply with all requirements in accordance with ANSI C63.10:2013, FCC Part 2, FCC Part 15.407, KDB 662911 D01, KDB 789033 D02, RSS-247 Issue 2 and RSS-GEN Issue 5.



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2. TEST SUMMERY

FCC Standard Sec.	IC Standard Sec.	Chapter	Test Item	Result
15.203	-	1.3	Antenna Requirement	Pass
15.207(a)	RSS-Gen(8.8)	4.1	AC Conducted Emission	Pass
15.407(a)	RSS-247(6.2.1.1) RSS-247(6.2.2.1) RSS-247(6.2.3.1) RSS-247(6.2.4.1)	4.2	Output Power Measurement	Pass
15.407(b)	RSS-247(6.2.1.2) RSS-247(6.2.2.2) RSS-247(6.2.3.2) RSS-247(6.2.4.2)	4.3	Radiation Band Edge	Pass
15.407(b)	RSS-247(6.2.1.2) RSS-247(6.2.2.2) RSS-247(6.2.3.2) RSS-247(6.2.4.2)	4.3	Radiation Spurious Emission	Pass

3. DESCRIPTION OF TEST MODES

3.1 THE WORST MODE OF OPERATING CONDITION

Operation mode	1. IEEE 802.11a mode: 6Mbps 2. IEEE 802.11n HT 20 mode: MCS8 3. IEEE 802.11n HT 40 mode: MCS8 4. IEEE 802.11ac VHT 80 mode: MCS8 5. IEEE 802.11ac VHT160 mode: MCS8																																																																	
Operating Frequency Range & Number of Channels	<table><thead><tr><th></th><th>Mode</th><th>Frequency Range (MHz)</th><th>Number of Channels</th></tr></thead><tbody><tr><td rowspan="5">U-NII-1</td><td>IEEE 802.11a</td><td>5180 ~ 5240</td><td>4 Channels</td></tr><tr><td>IEEE 802.11n HT 20</td><td>5180 ~ 5240</td><td>4 Channels</td></tr><tr><td>IEEE 802.11n HT 40</td><td>5190 ~ 5230</td><td>2 Channels</td></tr><tr><td>IEEE 802.11ac VHT 80</td><td>5210</td><td>1 Channels</td></tr><tr><td>IEEE 802.11ac VHT 160</td><td>5250</td><td>1 Channels</td></tr><tr><td rowspan="4">U-NII-2a</td><td>IEEE 802.11a</td><td>5260 ~ 5320</td><td>4 Channels</td></tr><tr><td>IEEE 802.11n HT 20</td><td>5260 ~ 5320</td><td>4 Channels</td></tr><tr><td>IEEE 802.11n HT 40</td><td>5270 ~ 5310</td><td>2 Channels</td></tr><tr><td>IEEE 802.11ac VHT 80</td><td>5290</td><td>1 Channels</td></tr><tr><td rowspan="5">U-NII-2c</td><td>IEEE 802.11a</td><td>5500 ~ 5700</td><td>11 Channels</td></tr><tr><td>IEEE 802.11n HT 20</td><td>5500 ~ 5700</td><td>11 Channels</td></tr><tr><td>IEEE 802.11n HT 40</td><td>5510 ~ 5670</td><td>5 Channels</td></tr><tr><td>IEEE 802.11ac VHT 80</td><td>5530 ~ 5610</td><td>2 Channels</td></tr><tr><td>IEEE 802.11ac VHT 160</td><td>5570</td><td>1 Channels</td></tr><tr><td rowspan="4">U-NII-3</td><td>IEEE 802.11a</td><td>5745 ~ 5825</td><td>5 Channels</td></tr><tr><td>IEEE 802.11n HT 20</td><td>5745 ~ 5825</td><td>5 Channels</td></tr><tr><td>IEEE 802.11n HT 40</td><td>5755 ~ 5795</td><td>2 Channels</td></tr><tr><td>IEEE 802.11ac VHT 80</td><td>5775</td><td>1 Channels</td></tr></tbody></table>					Mode	Frequency Range (MHz)	Number of Channels	U-NII-1	IEEE 802.11a	5180 ~ 5240	4 Channels	IEEE 802.11n HT 20	5180 ~ 5240	4 Channels	IEEE 802.11n HT 40	5190 ~ 5230	2 Channels	IEEE 802.11ac VHT 80	5210	1 Channels	IEEE 802.11ac VHT 160	5250	1 Channels	U-NII-2a	IEEE 802.11a	5260 ~ 5320	4 Channels	IEEE 802.11n HT 20	5260 ~ 5320	4 Channels	IEEE 802.11n HT 40	5270 ~ 5310	2 Channels	IEEE 802.11ac VHT 80	5290	1 Channels	U-NII-2c	IEEE 802.11a	5500 ~ 5700	11 Channels	IEEE 802.11n HT 20	5500 ~ 5700	11 Channels	IEEE 802.11n HT 40	5510 ~ 5670	5 Channels	IEEE 802.11ac VHT 80	5530 ~ 5610	2 Channels	IEEE 802.11ac VHT 160	5570	1 Channels	U-NII-3	IEEE 802.11a	5745 ~ 5825	5 Channels	IEEE 802.11n HT 20	5745 ~ 5825	5 Channels	IEEE 802.11n HT 40	5755 ~ 5795	2 Channels	IEEE 802.11ac VHT 80	5775	1 Channels
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Remark:

1. EUT pre-scanned data rate of output power for each mode, the worst data rate were recorded in this report.
2. Covered modes are test reduction modes. The output powers on the covered modes are equal to or less than the mode referenced and use the same module
3. The mode IEEE 802.11ac VHT20 and VHT40 are only different in control messages with IEEE 802.11n HT20 and HT40, and have same power setting. Therefore, the highest power(IEEE 802.11n HT20 and HT40) were test conducted and radiated measurement and recorded in this report.

3.2 THE WORST MODE OF MEASUREMENT

AC Power Line Conducted Emission	
Test Condition	AC Power line conducted emission for line and neutral
Power supply Mode	Mode 1: EUT power by Adapter. Mode 2: EUT power by Battery.
Worst Mode	☒ Mode 1 ☐ Mode 2 ☐ Mode 3 ☐ Mode 4

Radiated Emission Measurement Above 1G	
Test Condition	Band edge, Emission for Unwanted and Fundamental
Power supply Mode	Mode 1: EUT power by Adapter. Mode 2: EUT power by Battery.
Worst Mode	☒ Mode 1 ☐ Mode 2 ☐ Mode 3 ☐ Mode 4
Worst Position	☐ Placed in fixed position. ☒ Placed in fixed position at X-Plane (E2-Plane) ☐ Placed in fixed position at Y-Plane (E1-Plane) ☐ Placed in fixed position at Z-Plane (H-Plane)
Worst Polarity	☒ Horizontal ☐ Vertical

Radiated Emission Measurement Below 1G	
Test Condition	Radiated Emission Below 1G
Power supply Mode	Mode 1: EUT power by Adapter. Mode 2: EUT power by Battery.
Worst Mode	☒ Mode 1 ☐ Mode 2 ☐ Mode 3 ☐ Mode 4

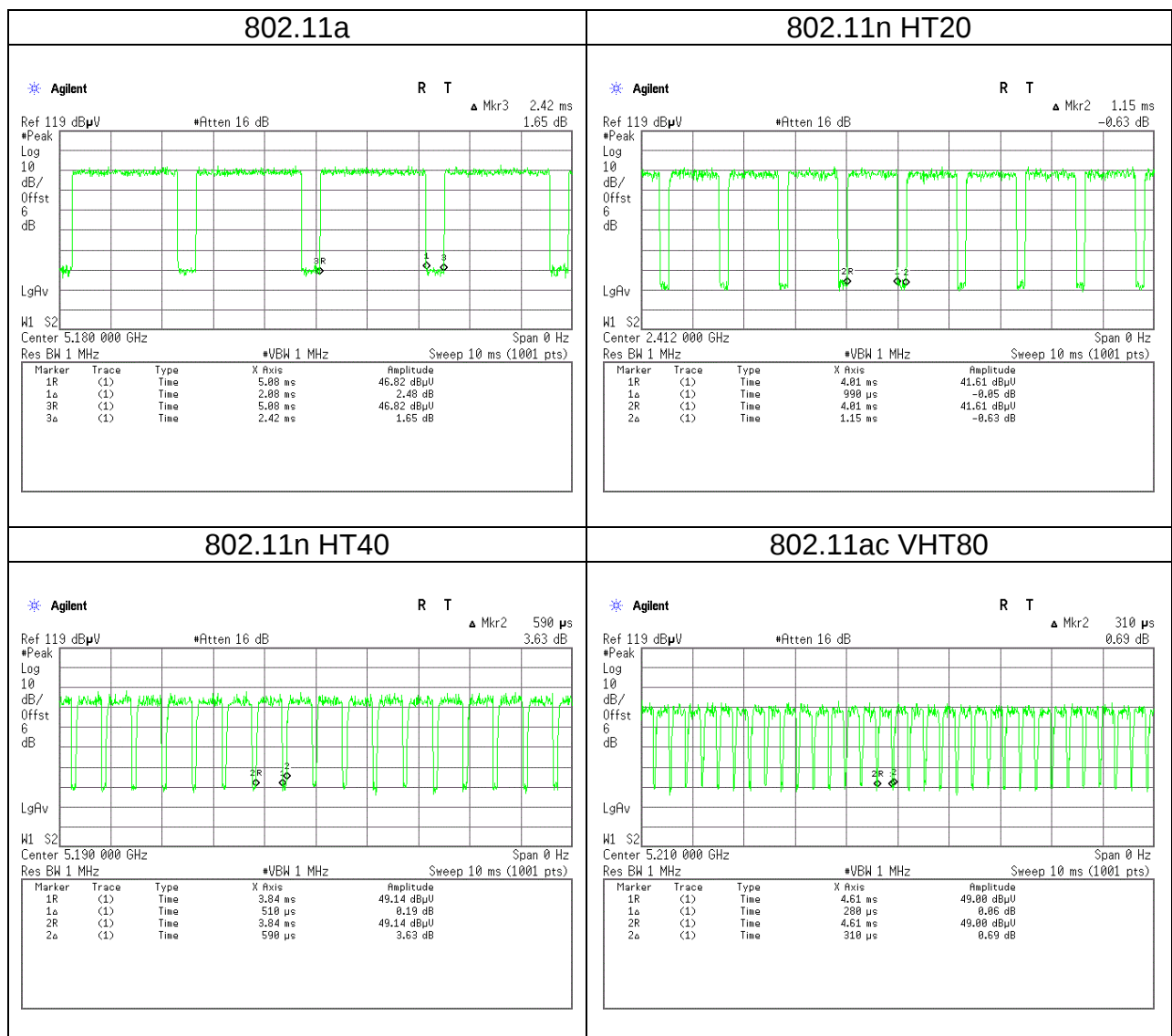
Remark:

1. The worst mode was record in this test report.
2. EUT pre-scanned in three axis ,X,Y, Z and two polarity, Horizontal and Vertical for radiated measurement. The worst case(X-Plane and Horizontal) were recorded in this report
3. AC power line conducted emission and for below 1G radiation emission were performed the EUT transmit at the highest output power channel as worse case.

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3.3 EUT DUTY CYCLE

Duty Cycle			
Configuration	TX ON (ms)	TX ALL (ms)	Duty Cycle (%)
802.11a	2.0800	2.4200	85.95%
802.11n HT20	0.9900	1.1500	86.09%
802.11n HT40	0.5100	0.5900	86.44%
802.11ac VHT80	0.2800	0.3100	90.32%



4. TEST RESULT

4.1 AC POWER LINE CONDUCTED EMISSION

4.1.1 Test Limit

According to §15.207(a) and RSS-GEN section 8.8,

Frequency Range (MHz)	Limits(dBμV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56*	56 to 46*
0.50 to 5	56	46
5 to 30	60	50

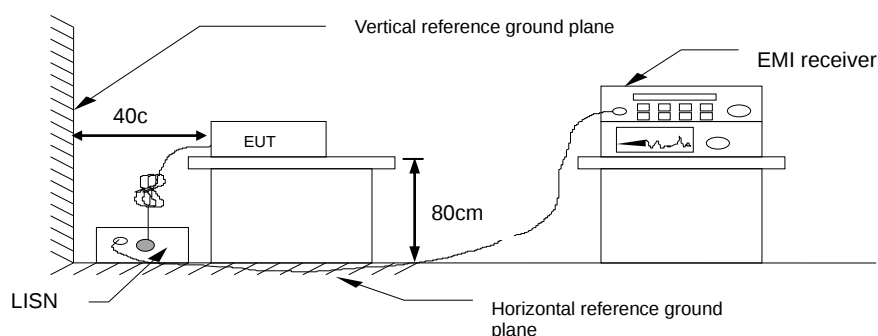
* Decreases with the logarithm of the frequency.

4.1.2 Test Procedure

Test method Refer as ANSI 63.10:2013 clause 6.2,

1. The EUT was placed on a non-conducted table, which is 0.8m above horizontal ground plane and 0.4m above vertical ground plane.
2. EUT connected to the line impedance stabilization network (LISN)
3. Receiver set RBW of 9kHz and Detector Peak, and note as quasi-peak and average.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. Recorded Line for Neutral and Line.

4.1.3 Test Setup

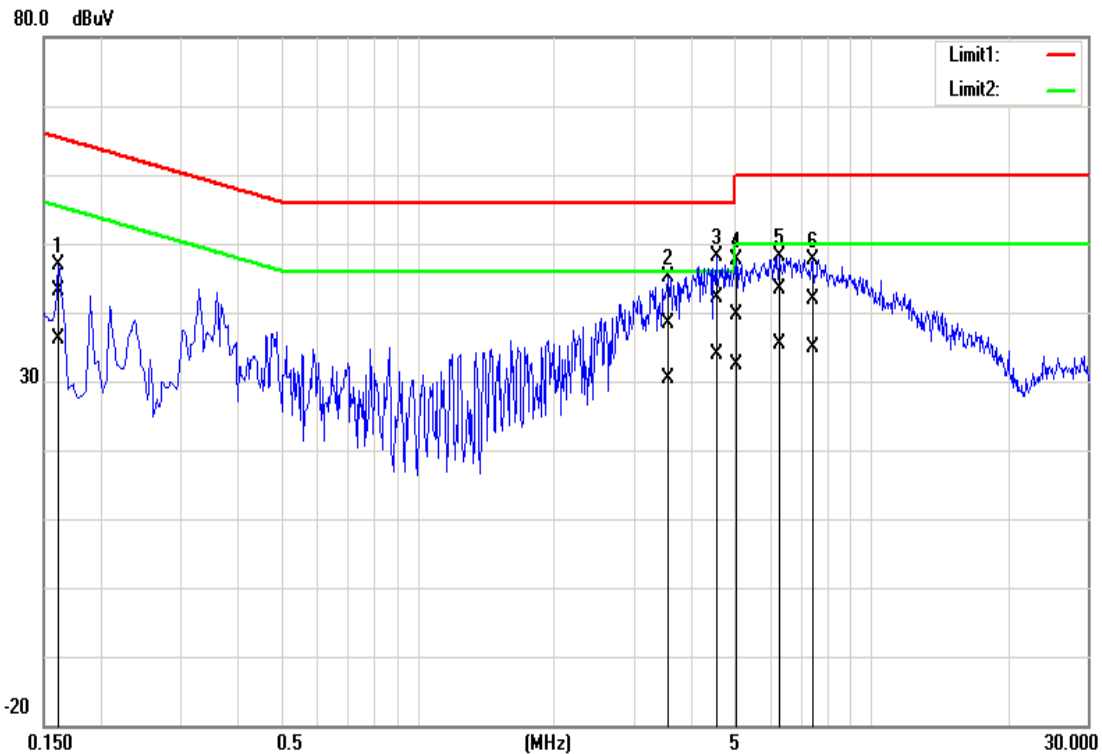


4.1.4 Test Result

Pass.

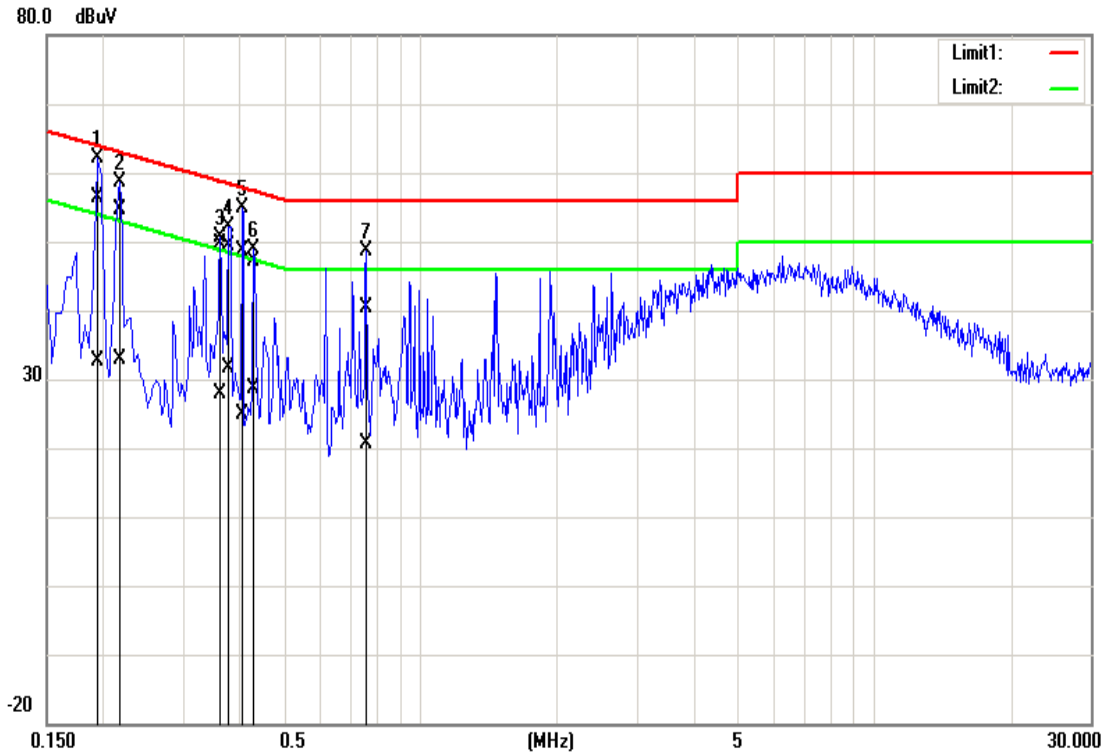
Test Data

Test Mode:	Mode 1	Temp/Hum	24(°C)/ 50%RH
Phase:	Line	Test Date	November 21, 2018
Test Voltage:	120V	Test Engineer	Dally Hong



Frequency (MHz)	Quasi Peak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	Quasi Peak result (dBuV)	Average result (dBuV)	Quasi Peak limit (dBuV)	Average limit (dBuV)	Quasi Peak margin (dB)	Average margin (dB)	Remark
0.1620	42.91	35.86	0.16	43.07	36.02	65.36	55.36	-22.29	-19.34	Pass
3.5700	38.16	30.19	0.28	38.44	30.47	56.00	46.00	-17.56	-15.53	Pass
4.5700	41.91	33.63	0.31	42.22	33.94	56.00	46.00	-13.78	-12.06	Pass
5.0460	39.43	32.15	0.32	39.75	32.47	60.00	50.00	-20.25	-17.53	Pass
6.2580	42.97	35.10	0.35	43.32	35.45	60.00	50.00	-16.68	-14.55	Pass
7.4180	41.59	34.47	0.38	41.97	34.85	60.00	50.00	-18.03	-15.15	Pass

Test Mode:	Mode 1	Temp/Hum	24(°C)/ 50%RH
Phase:	Neutral	Test Date	November 21, 2018
Test Voltage:	120V	Test Engineer	Dally Hong



Frequency (MHz)	Quasi Peak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	Quasi Peak result (dBuV)	Average result (dBuV)	Quasi Peak limit (dBuV)	Average limit (dBuV)	Quasi Peak margin (dB)	Average margin (dB)	Remark
0.1940	56.27	32.42	0.18	56.45	32.60	63.86	53.86	-7.41	-21.26	Pass
0.2180	54.45	32.73	0.18	54.63	32.91	62.89	52.89	-8.26	-19.98	Pass
0.3620	49.36	27.60	0.19	49.55	27.79	58.68	48.68	-9.13	-20.89	Pass
0.3780	49.12	31.45	0.19	49.31	31.64	58.32	48.32	-9.01	-16.68	Pass
0.4060	48.49	24.67	0.19	48.68	24.86	57.73	47.73	-9.05	-22.87	Pass
0.4300	46.94	28.41	0.19	47.13	28.60	57.25	47.25	-10.12	-18.65	Pass
0.7620	40.17	20.52	0.21	40.38	20.73	56.00	46.00	-15.62	-25.27	Pass

4.2 OUTPUT POWER MEASUREMENT

4.2.1 Test Limit

According to §15.407 (a)(1), 15.407(a)(2) and 15.407(a)(3) and RSS-247 section 6.2.1.1, section 6.2.2.1, section 6.2.3.1 and section 6.2.4.1

UNII-1 :

For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW(24 dBm) and The maximum e.i.r.p. shall not exceed 200 mW or $10 + 10 \log_{10} B$, dBm, whichever power is less. B is the 99% emission bandwidth in megahertz ,provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

UNII-2a and 2c:

the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. and The maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log_{10} B$, dBm, whichever power is less. B is the 99% emission bandwidth in MHz. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

UNII-3:

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

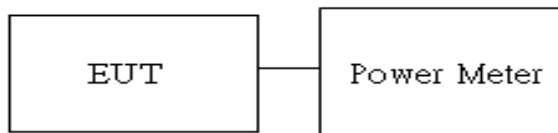
UNII-1 Limit	☒ Antenna not exceed 6 dBi : 24dBm (EIRP : 23dBm) ☐ Antenna with DG greater than 6 dBi : [Limit = $24 - (DG - 6)$]
UNII-2a/2c Limit	☒ Antenna not exceed 6 dBi : 24dBm (EIRP : 30dBm) ☐ Antenna with DG greater than 6 dBi : [Limit = $24 - (DG - 6)$]
UNII-3 Limit	☒ Antenna not exceed 6 dBi : 30dBm ☐ Antenna with DG greater than 6 dBi : [Limit = $30 - (DG - 6)$]

4.2.2 Test Procedure

Test method Refer as KDB 789033 D02.

1. The EUT RF output connected to the power meter by RF cable.
2. Setting maximum power transmit of EUT.
3. The path loss was compensated to the results for each measurement.
4. Measure and record the result of Average output power. in the test report.

4.2.3 Test Setup



4.2.4 Test Result

Conducted output power :

UNII-1													
Config	CH	Freq. (MHz)	Power Set		AV Power(dBm)		AV Total Power (dBm)	EIRP AV Total Power (dBm)	AV Total Power (W)	EIRP AV Total Power (W)	DG (dBi)	Limit (dBm)	EIRP Limit (dBm)
			chain0	chain1	chain0	chain1							
IEEE 802.11a Data rate: 6Mbps	36	5180	17.875	-	16.82	-	16.82	17.27	0.0481	0.0533	0.45	24	23
	44	5220	19.000	-	18.13	-	18.13	18.58	0.0650	0.0721			
	48	5240	19.250	-	18.14	-	18.14	18.59	0.0652	0.0723			

UNII-2a													
Config	CH	Freq. (MHz)	Power Set		AV Power(dBm)		AV Total Power (dBm)	EIRP AV Total Power (dBm)	AV Total Power (W)	EIRP AV Total Power (W)	DG (dBi)	Limit (dBm)	EIRP Limit (dBm)
			chain0	chain1	chain0	chain1							
IEEE 802.11a Data rate: 6Mbps	52	5260	20.875	-	19.58	-	19.58	20.03	0.0908	0.1007	0.45	24	30
	56	5280	20.750	-	19.50	-	19.50	19.95	0.0891	0.0989			
	64	5320	17.125	-	16.08	-	16.08	16.53	0.0406	0.0450			

UNII-2c													
Config	CH	Freq. (MHz)	Power Set		AV Power(dBm)		AV Total Power (dBm)	EIRP AV Total Power (dBm)	AV Total Power (W)	EIRP AV Total Power (W)	DG (dBi)	Limit (dBm)	EIRP Limit (dBm)
			chain0	chain1	chain0	chain1							
IEEE 802.11a Data rate: 6Mbps	100	5500	17.500	-	16.77	-	16.77	17.22	0.0475	0.0527	0.45	24	30
	116	5580	17.750	-	16.73	-	16.73	17.18	0.0471	0.0522			
	140	5700	18.625	-	17.48	-	17.48	17.93	0.0560	0.0621			

UNII-3									
Config	CH	Freq. (MHz)	Power Set		AV Power(dBm)		AV Total Power (dBm)	AV Total Power (W)	Limit (dBm)
			chain0	chain1	chain0	chain1			
IEEE 802.11a Data rate: 6Mbps	149	5745	20.375	-	19.59	-	19.59	0.0910	30
	157	5785	20.375	-	19.80	-	19.80	0.0955	
	165	5825	20.375	-	19.66	-	19.66	0.0925	



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UNII-1																			
Config	CH	Freq. (MHz)	Power Set		AV Power(dBm)		AV Total Power (dBm)	EIRP AV Total Power (dBm)	AV Total Power (W)	EIRP AV Total Power (W)	DG (dBi)	Limit (dBm)	EIRP Limit (dBm)						
			chain0	chain1	chain0	chain1													
IEEE 802.11n HT20 Data rate: MCS 8	36	5180	17.250	16.875	15.32	15.84	18.60	19.05	0.0724	0.0803	0.45	24	23						
	44	5220	19.875	18.625	17.78	17.79	20.80	21.25	0.1201	0.1332									
	48	5240	19.375	18.875	17.78	17.81	20.81	21.26	0.1204	0.1335									
IEEE 802.11n HT40 Data rate: MCS 8	38	5190	20.000	16.750	15.30	15.72	18.53	18.98	0.0712	0.0790									
	46	5230	19.000	17.750	17.29	16.79	20.06	20.51	0.1013	0.1124									
IEEE 802.11ac VHT80 Data rate: MCS8	42	5210	15.000	24.000	15.31	15.33	18.33	18.78	0.0681	0.0755									
IEEE 802.11ac VHT160 Data rate: MCS8	50	5250	11.375	12.500	10.86	10.72	13.80	14.25	0.0240	0.0266									



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UNII-2a													
Config	CH	Freq. (MHz)	Power Set		AV Power(dBm)		AV Total Power (dBm)	EIRP AV Total Power (dBm)	AV Total Power (W)	EIRP AV Total Power (W)	DG (dBi)	Limit (dBm)	EIRP Limit (dBm)
			chain0	chain1	chain0	chain1							
IEEE 802.11n HT20 Data rate: MCS 8	52	5260	19.375	19.000	17.71	17.79	20.76	21.21	0.1191	0.1321	0.45	24	30
	56	5280	19.625	19.000	17.77	17.83	20.81	21.26	0.1205	0.1337			
	64	5320	20.000	19.250	17.44	17.75	20.61	21.06	0.1151	0.1276			
IEEE 802.11n HT40 Data rate: MCS 8	54	5270	19.000	18.375	16.79	17.26	20.04	20.49	0.1009	0.1119			
	62	5310	24.000	24.000	15.91	16.32	19.13	19.58	0.0818	0.0908			
IEEE 802.11ac VHT80 Data rate: MCS8	58	5290	15.250	16.750	15.25	15.47	18.37	18.82	0.0687	0.0762			

UNII-2c													
Config	CH	Freq. (MHz)	Power Set		AV Power(dBm)		AV Total Power (dBm)	EIRP AV Total Power (dBm)	AV Total Power (W)	EIRP AV Total Power (W)	DG (dBi)	Limit (dBm)	EIRP Limit (dBm)
			chain0	chain1	chain0	chain1							
IEEE 802.11n HT20 Data rate: MCS 8	100	5500	16.500	16.625	14.73	15.80	18.31	18.76	0.0678	0.0752	0.45	24	30
	116	5580	17.750	16.750	15.78	15.79	18.80	19.25	0.0759	0.0841			
	140	5700	17.875	16.625	15.44	15.61	18.54	18.99	0.0714	0.0793			
IEEE 802.11n HT40 Data rate: MCS 8	102	5510	16.000	16.000	13.95	15.35	17.75	18.20	0.0596	0.0661			
	110	5550	15.875	15.875	13.93	15.07	17.55	18.00	0.0569	0.0631			
	134	5670	16.500	16.500	14.85	15.72	18.32	18.77	0.0679	0.0753			
IEEE 802.11ac VHT80 Data rate: MCS8	106	5530	11.625	12.875	11.18	11.15	14.18	14.63	0.0262	0.0290			
IEEE 802.11ac VHT160 Data rate: MCS8	114	5570	17.750	24.000	17.48	18.20	20.87	21.32	0.1222	0.1355			

UNII-3									
Config	CH	Freq. (MHz)	Power Set		AV Power(dBm)		AV Total Power (dBm)	AV Total Power (W)	Limit (dBm)
			chain0	chain1	chain0	chain1			
IEEE 802.11n HT20 Data rate: MCS 8	149	5745	19.125	18.500	17.45	17.61	20.54	0.1132	30
	157	5785	18.875	18.125	17.29	17.34	20.33	0.1079	
	165	5825	19.000	18.125	17.81	17.30	20.57	0.1140	
IEEE 802.11n HT40 Data rate: MCS 8	151	5755	18.875	18.125	17.29	17.31	20.31	0.1074	
	159	5795	18.875	18.625	17.08	18.00	20.57	0.1140	
IEEE 802.11ac VHT80 Data rate: MCS8	155	5775	15.500	16.000	14.58	14.57	17.59	0.0574	

4.3 RADIATION BANDEDGE AND SPURIOUS EMISSION

4.3.1 Test Limit

FCC according to §15.407, §15.209 and §15.205,

Below 30 MHz

Frequency	Field Strength (microvolts/m)	Magnetic H-Field (microamperes/m)	Measurement Distance (metres)
9-490 kHz	2,400/F (F in kHz)	2,400/F (F in kHz)	300
490-1,705 kHz	24,000/F (F in kHz)	24,000/F (F in kHz)	30
1.705-30 MHz	30	N/A	30

Above 30 MHz

Frequency (MHz)	Field Strength microvolts/m at 3 metres (watts, e.i.r.p.)	
	Transmitters	Receivers
30-88	100 (3 nW)	100 (3 nW)
88-216	150 (6.8 nW)	150 (6.8 nW)
216-960	200 (12 nW)	200 (12 nW)
Above 960	500 (75 nW)	500 (75 nW)

IC according to RSS-247 section 6.2.1(2), section 6.2.2(2), section 6.2.3(2) and section 6.2.4(2)

UNII-1 :

For transmitters operating in the band 5150-5250 MHz, all emissions outside the band 5150-5350 MHz shall not exceed -27 dBm/MHz e.i.r.p. However, any unwanted emissions that fall into the band 5250-5350 MHz must be 26 dBc, when measured using a resolution bandwidth between 1 and 5% of the occupied bandwidth, above 5.25 GHz. Otherwise, the transmission is considered as intentional and the devices shall implement dynamic frequency selection (DFS) and transmitter power control (TPC) as per the requirements for the band 5250-5350 MHz

UNII-2a and 2c :

For devices with operating frequencies in the band 5250-5350 MHz but having a channel bandwidth that overlaps the band 5150-5250 MHz, the devices' unwanted emission shall not exceed -27 dBm/MHz e.i.r.p. outside the band 5150-5350 MHz and its power shall comply with the spectral power density for operation within the band 5150-5250 MHz. The device shall be labelled "for indoor use only." Emissions outside the band 5470-5725 MHz shall not exceed -27 dBm/MHz e.i.r.p.

UNII-3:

For the band 5725-5850 MHz, emissions at frequencies from the band edges to 10 MHz above or below the band edges shall not exceed -17 dBm/MHz e.i.r.p.

For emissions at frequencies more than 10 MHz above or below the band edges, the emissions power shall not exceed -27 dBm/MHz

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4.3.2 Test Procedure

Test method Refer as KDB 789033 D02.

1. The EUT is placed on a turntable, Above 1 GHz is 1.5m and below 1 GHz is 0.8m above ground plane. The EUT Configured un accordance with ANSI C63.10, and the EUT set in a continuous mode.

2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level. And EUT is set 3m away from the receiving antenna, which is scanned from 1m to 4m above the ground plane to find out the highest emissions. Measurement are made polarized in both the vertical and the horizontal positions with antenna.

3. Span shall wide enough to full capture the emission measured. The SA from 30MHz to 26.5GHz set to the low, Mid and High channels with the EUT transmit.

5. The SA setting following :

(1) Below 1G : RBW = 100kHz, VBW $\geq 3 \times$ RBW, Sweep = Auto, Detector = Peak, Trace = Max hold.

(2) Above 1G :

(2.1) For Peak measurement : RBW = 1MHz, VBW ≥ 3 RBW, Sweep = Auto, Detector = Peak, Trace = Max hold.

(2.2) For Average measurement : RBW = 1MHz, VBW

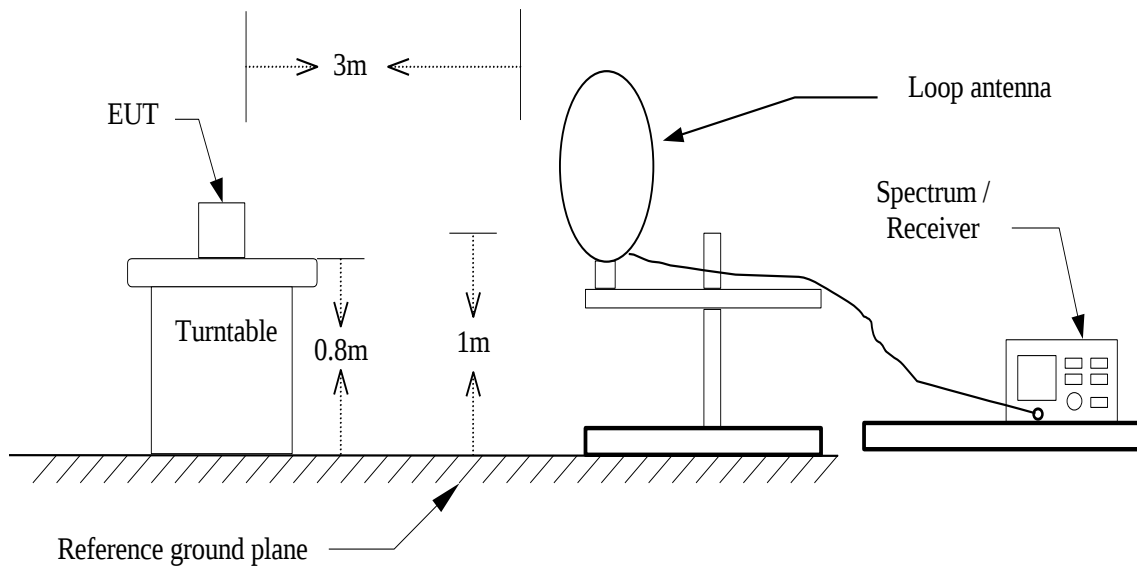
· If Duty Cycle $\geq 98\%$, VBW=10Hz.

· If Duty Cycle $< 98\%$, VBW=1/T.

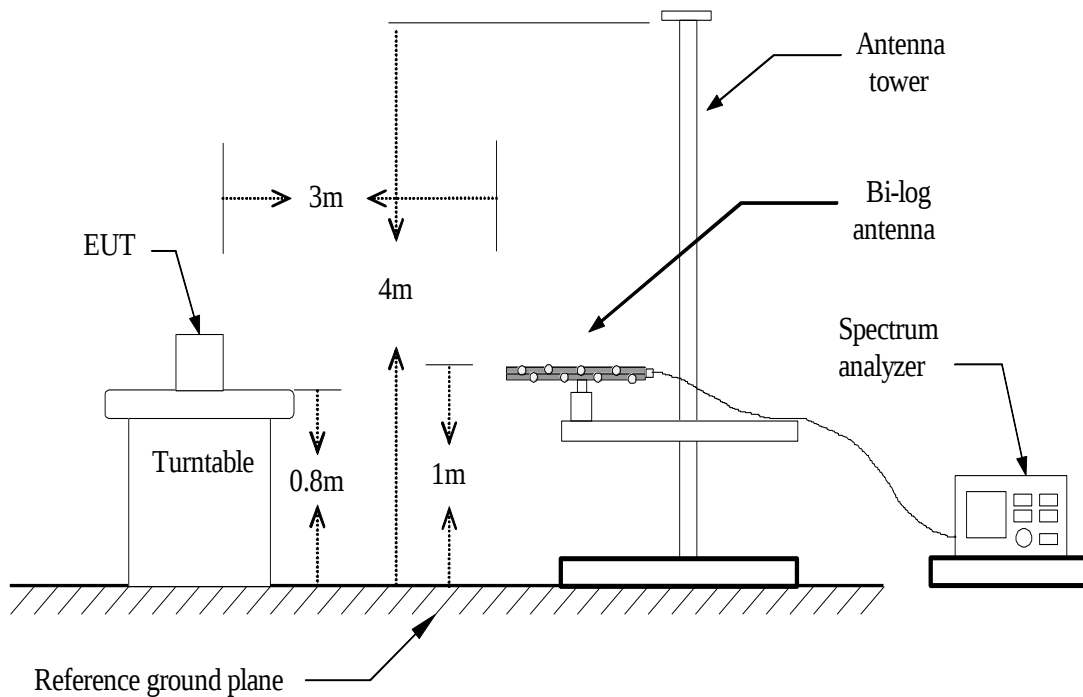
Configuration	Duty Cycle (%)	T(ms)	1/T (kHz)	VBW Setting
802.11a	85.95%	2.0800	0.481	510Hz
802.11n HT20	86.09%	0.9900	1.010	1.1KHz
802.11n HT40	86.44%	0.5100	1.961	2KHz
802.11ac VHT80	90.32%	0.2800	3.571	3.6KHz

4.3.3 Test Setup

9kHz ~ 30MHz



30MHz ~ 1GHz

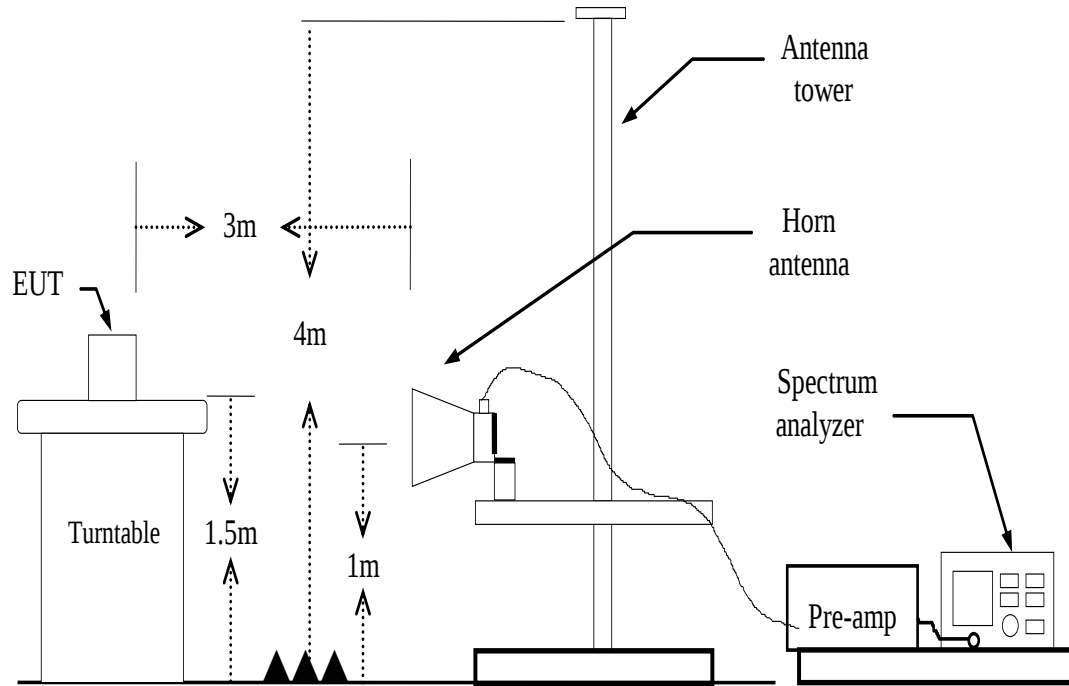


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Above 1 GHz

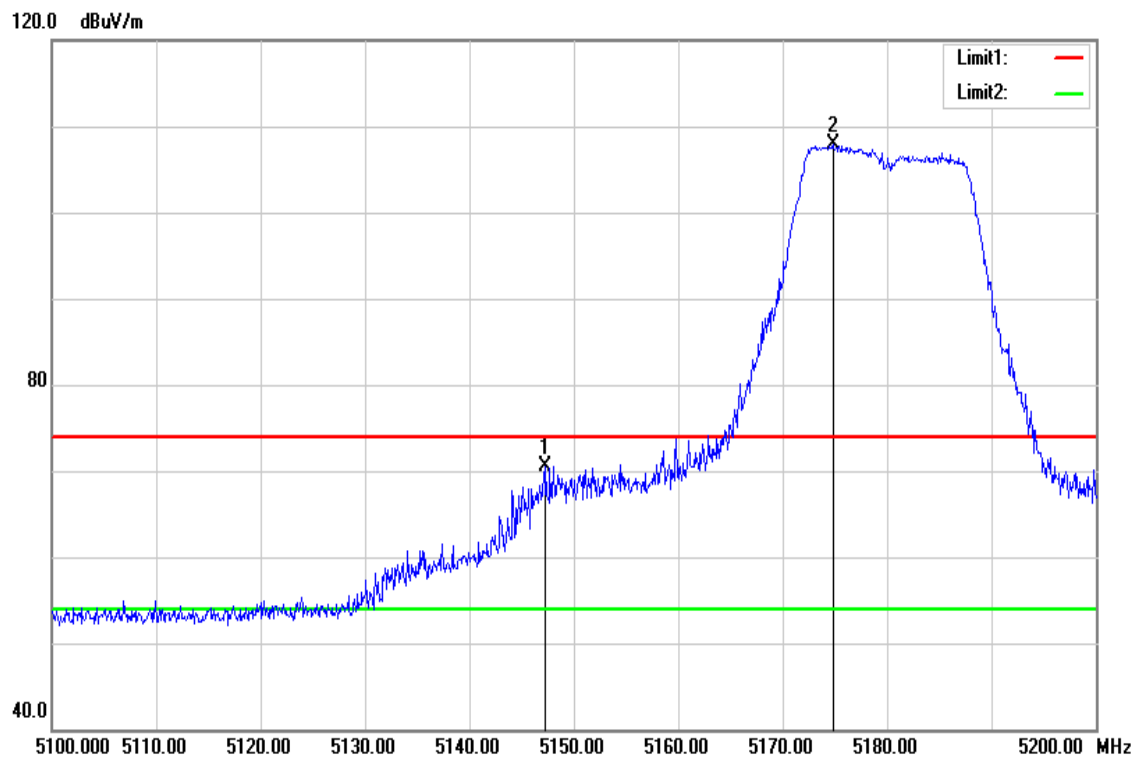


4.3.4 Test Result

Test Data

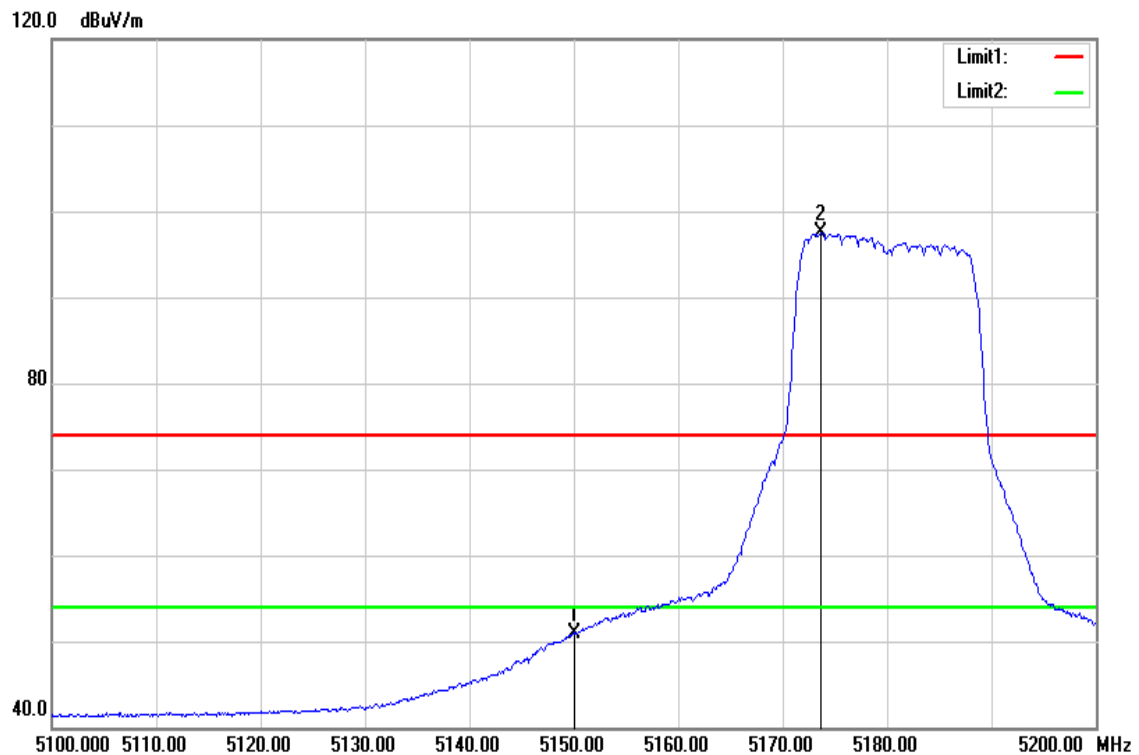
Band Edge Test Data for UNII-1

Test Mode	IEEE 802.11a Low CH	Temp/Hum	21.5(°C)/ 41%RH
Test Item	Band Edge	Test Date	November 7, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Peak		



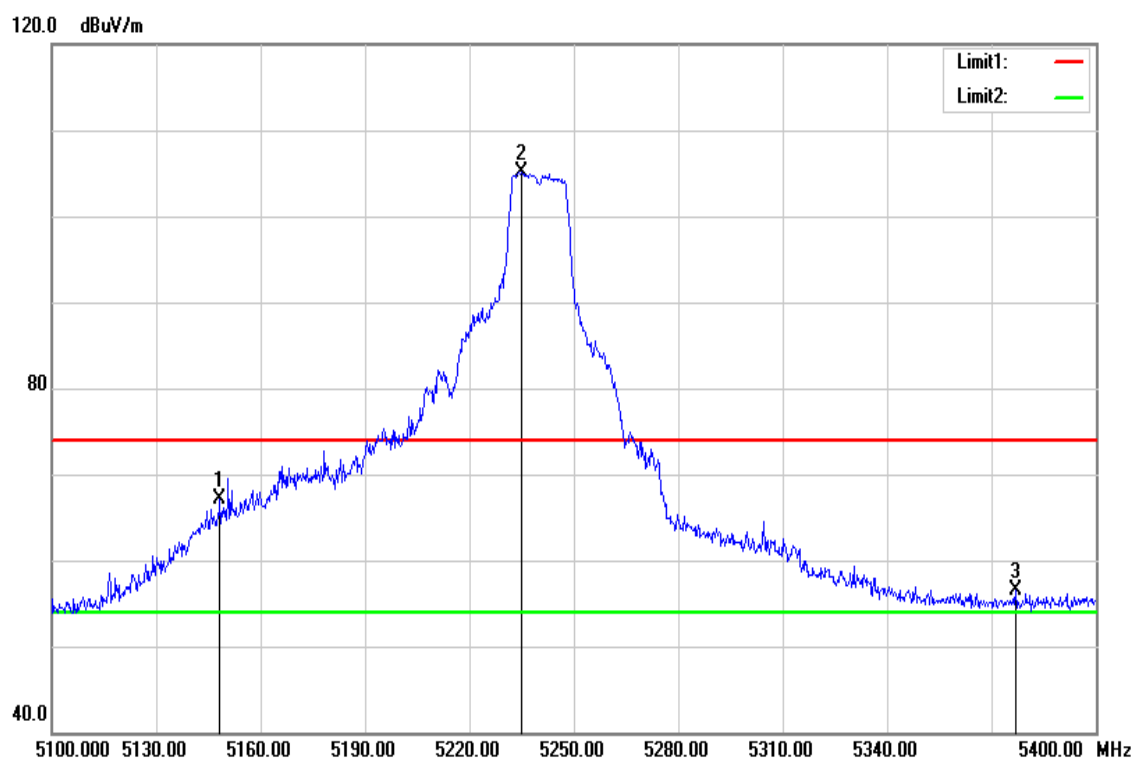
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5147.300	65.61	4.99	70.60	74.00	-3.40	peak
5174.800	102.83	5.10	107.93	-	-	peak

Test Mode	IEEE 802.11a Low CH	Temperature	21.5(°C)/ 41%RH
Test Item	Band Edge	Test Date	November 7, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Average		



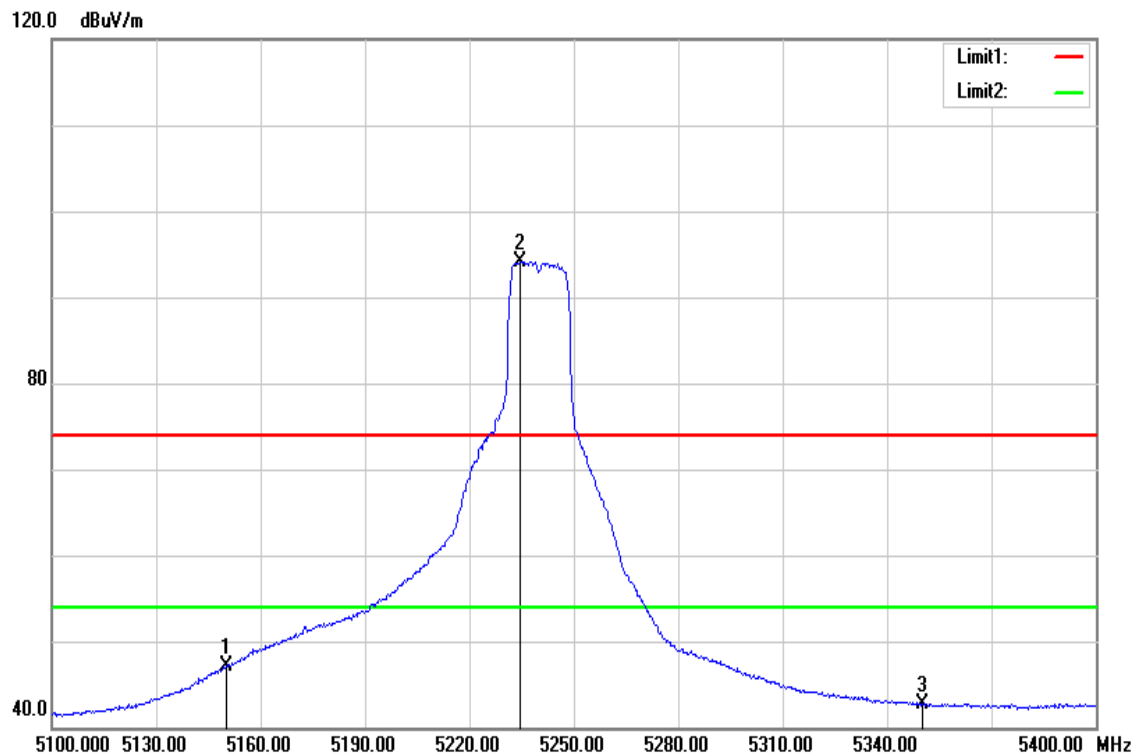
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5150.000	45.86	5.00	50.86	54.00	-3.14	AVG
5173.700	92.33	5.10	97.43	-	-	AVG

Test Mode	IEEE 802.11a High CH	Temp/Hum	21.5(°C)/ 41%RH
Test Item	Band Edge	Test Date	November 7, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Peak		



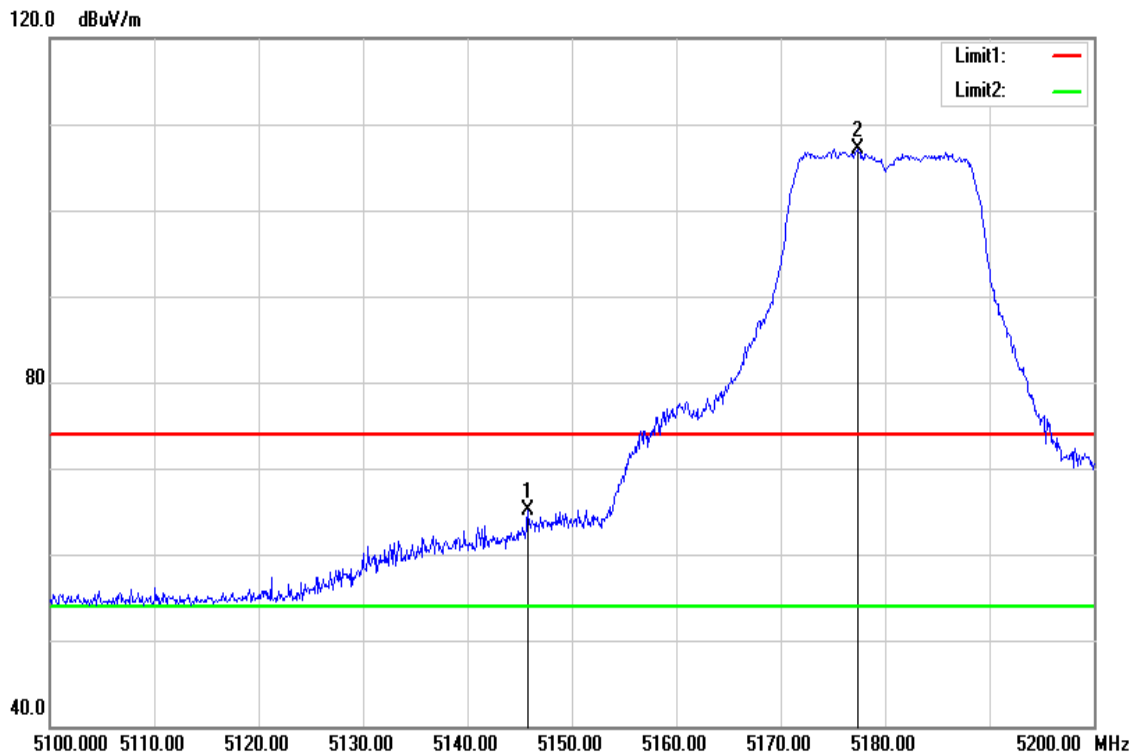
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5148.300	62.06	5.00	67.06	74.00	-6.94	peak
5235.000	99.82	5.24	105.06	-	-	peak
5376.900	51.10	5.38	56.48	74.00	-17.52	peak

Test Mode	IEEE 802.11a High CH	Temperature	21.5(°C)/ 41%RH
Test Item	Band Edge	Test Date	November 7, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Average		



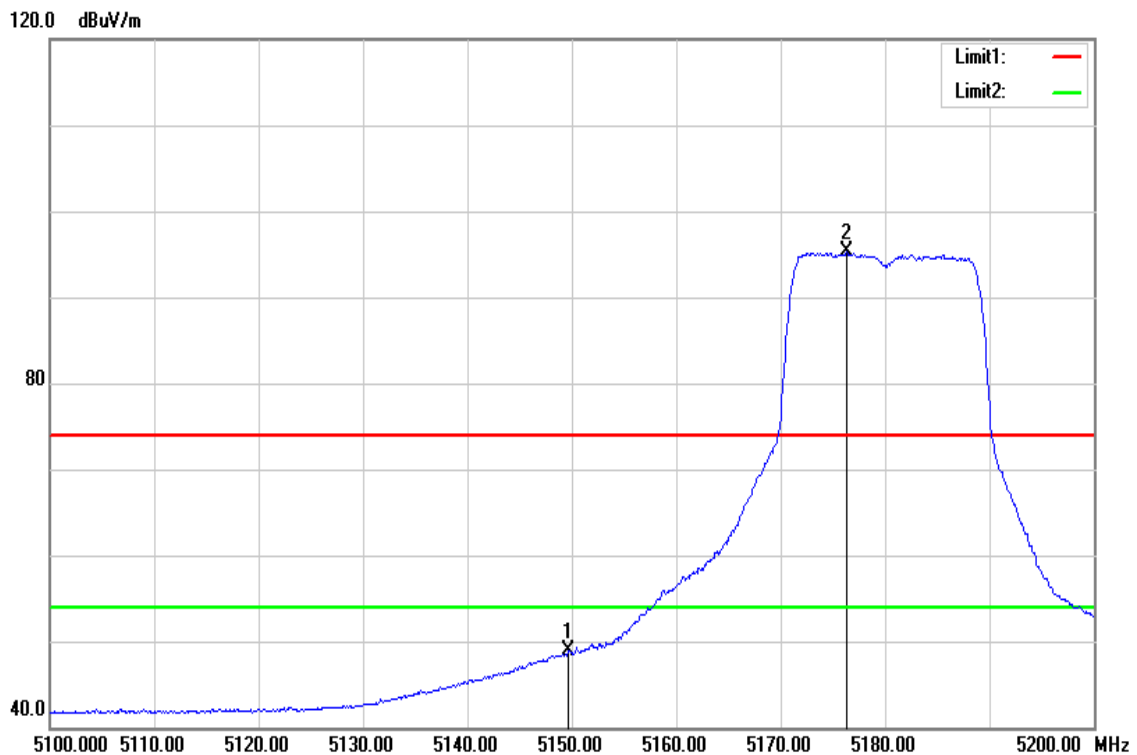
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5150.000	42.15	5.00	47.15	54.00	-6.85	AVG
5234.400	88.84	5.25	94.09	-	-	AVG
5350.000	37.32	5.36	42.68	54.00	-11.32	AVG

Test Mode	IEEE 802.11n HT20 Low CH	Temp/Hum	21.5(°C)/ 41%RH
Test Item	Band Edge	Test Date	November 7, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Peak		



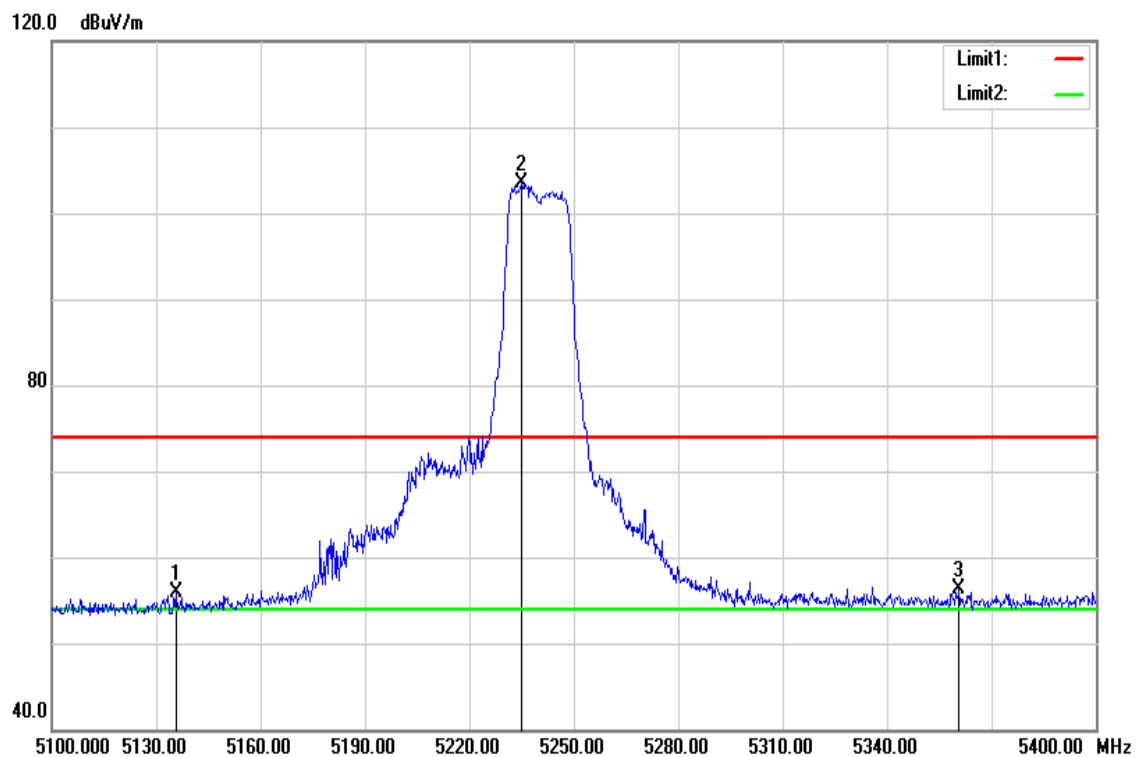
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5145.800	60.05	4.98	65.03	74.00	-8.97	peak
5177.400	102.00	5.11	107.11	-	-	peak

Test Mode	IEEE 802.11n HT20 Low CH	Temperature	21.5(°C)/ 41%RH
Test Item	Band Edge	Test Date	November 7, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Average		



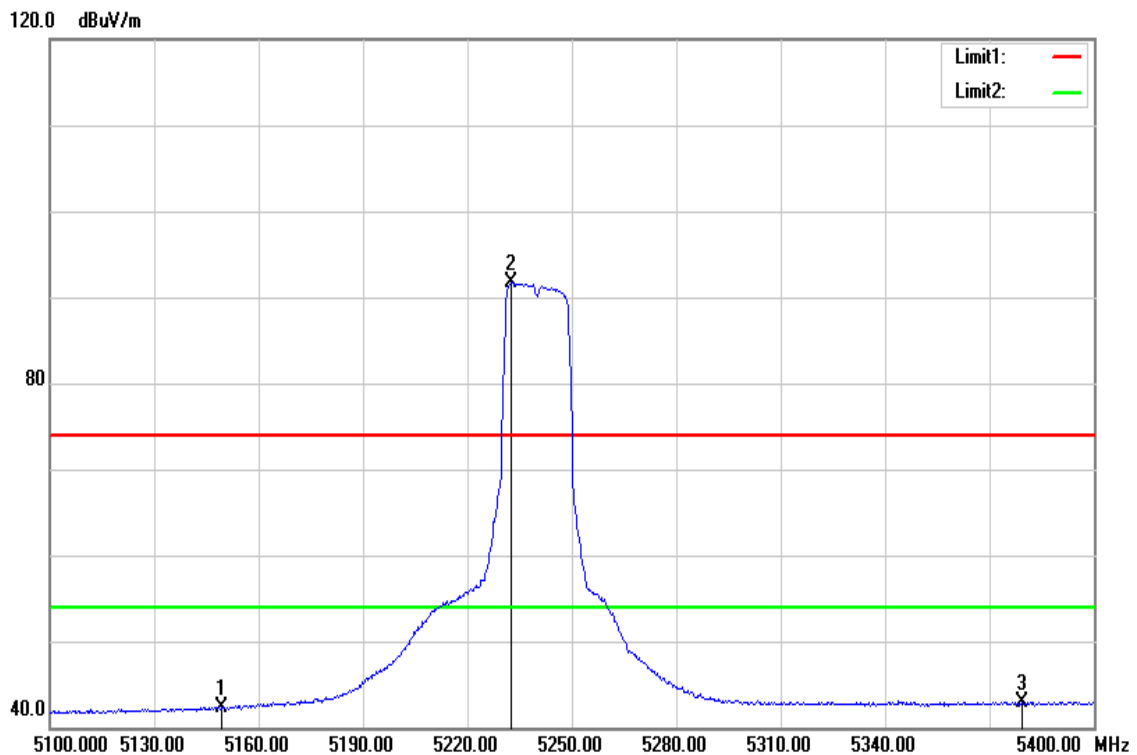
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5149.700	43.88	5.00	48.88	54.00	-5.12	AVG
5176.300	90.12	5.10	95.22	-	-	AVG

Test Mode	IEEE 802.11n HT20 High CH	Temp/Hum	21.5(°C)/ 41%RH
Test Item	Band Edge	Test Date	November 7, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Peak		



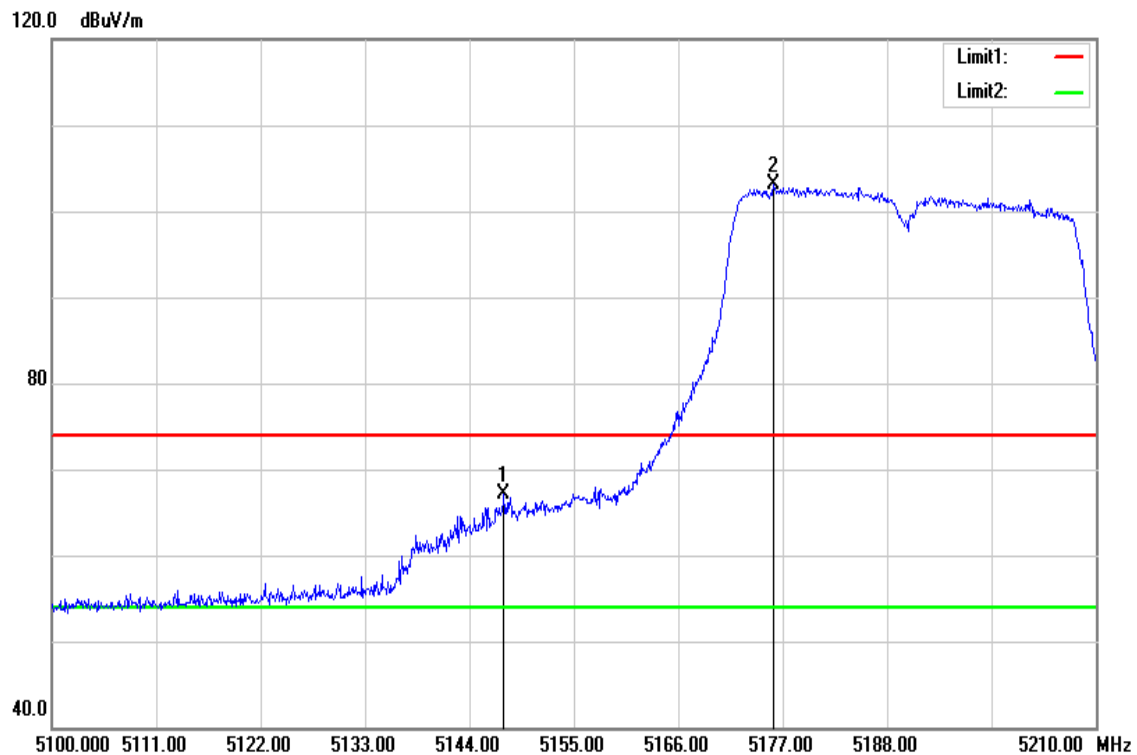
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5135.700	50.90	4.94	55.84	74.00	-18.16	peak
5235.000	98.22	5.24	103.46	-	-	peak
5360.700	50.93	5.37	56.30	74.00	-17.70	peak

Test Mode	IEEE 802.11n HT20 High CH	Temperature	21.5(°C)/ 41%RH
Test Item	Band Edge	Test Date	November 7, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Average		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5149.200	37.32	5.00	42.32	54.00	-11.68	AVG
5232.600	86.55	5.24	91.79	-	-	AVG
5379.300	37.59	5.39	42.98	54.00	-11.02	AVG

Test Mode	IEEE 802.11n HT40 Low CH	Temp/Hum	21.5(°C)/ 41%RH
Test Item	Band Edge	Test Date	November 7, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Peak		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5147.630	62.06	5.00	67.06	74.00	-6.94	peak
5176.010	98.06	5.10	103.16	-	-	peak

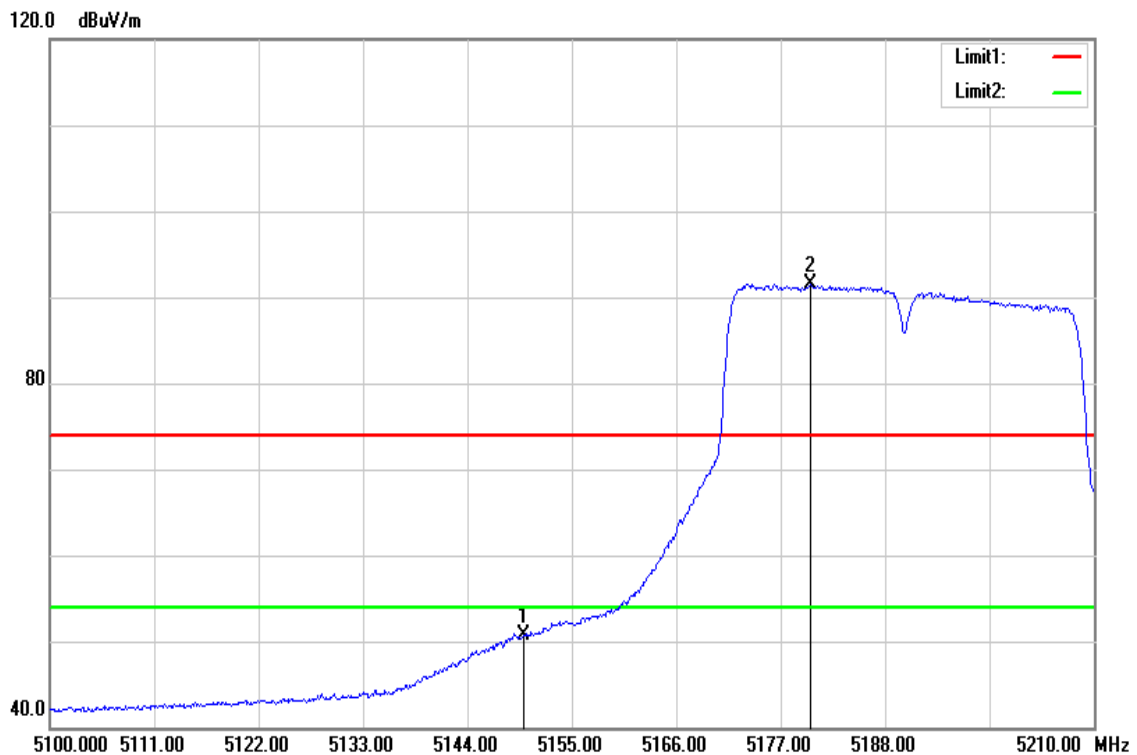


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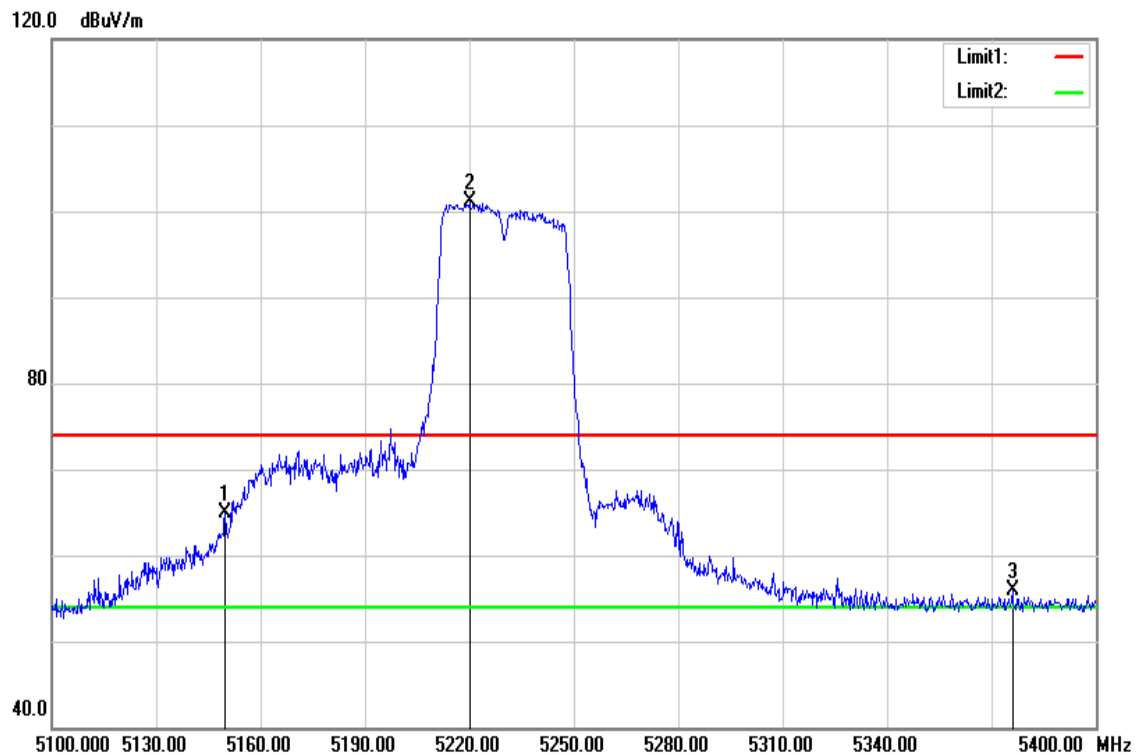
Rev.: 00

Test Mode	IEEE 802.11n HT40 Low CH	Temperature	21.5(°C)/ 41%RH
Test Item	Band Edge	Test Date	November 7, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Average		



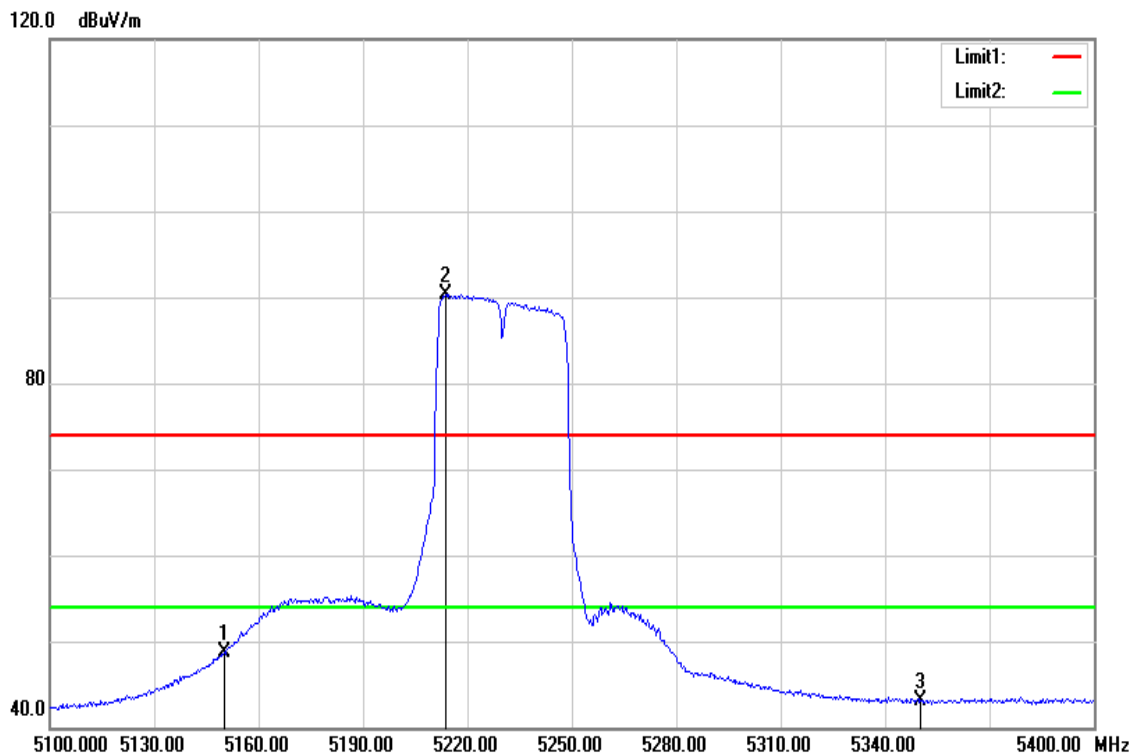
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5150.000	45.74	5.00	50.74	54.00	-3.26	AVG
5180.080	86.46	5.13	91.59	-	-	AVG

Test Mode	IEEE 802.11n HT40 High CH	Temp/Hum	21.5(°C)/ 41%RH
Test Item	Band Edge	Test Date	November 7, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Peak		



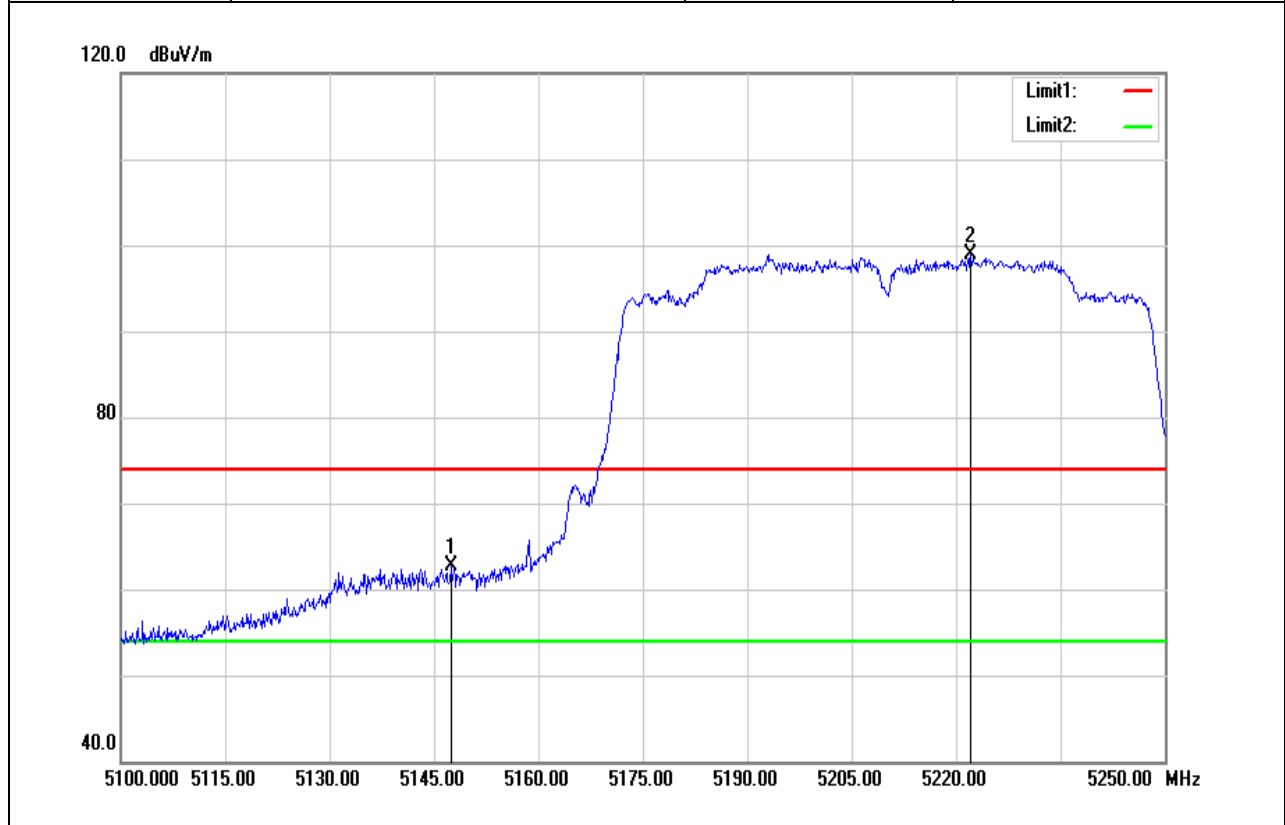
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5149.800	59.86	5.00	64.86	74.00	-9.14	peak
5220.000	95.89	5.22	101.11	-	-	peak
5376.000	50.52	5.38	55.90	74.00	-18.10	peak

Test Mode	IEEE 802.11n HT40 High CH	Temperature	21.5(°C)/ 41%RH
Test Item	Band Edge	Test Date	November 7, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Average		



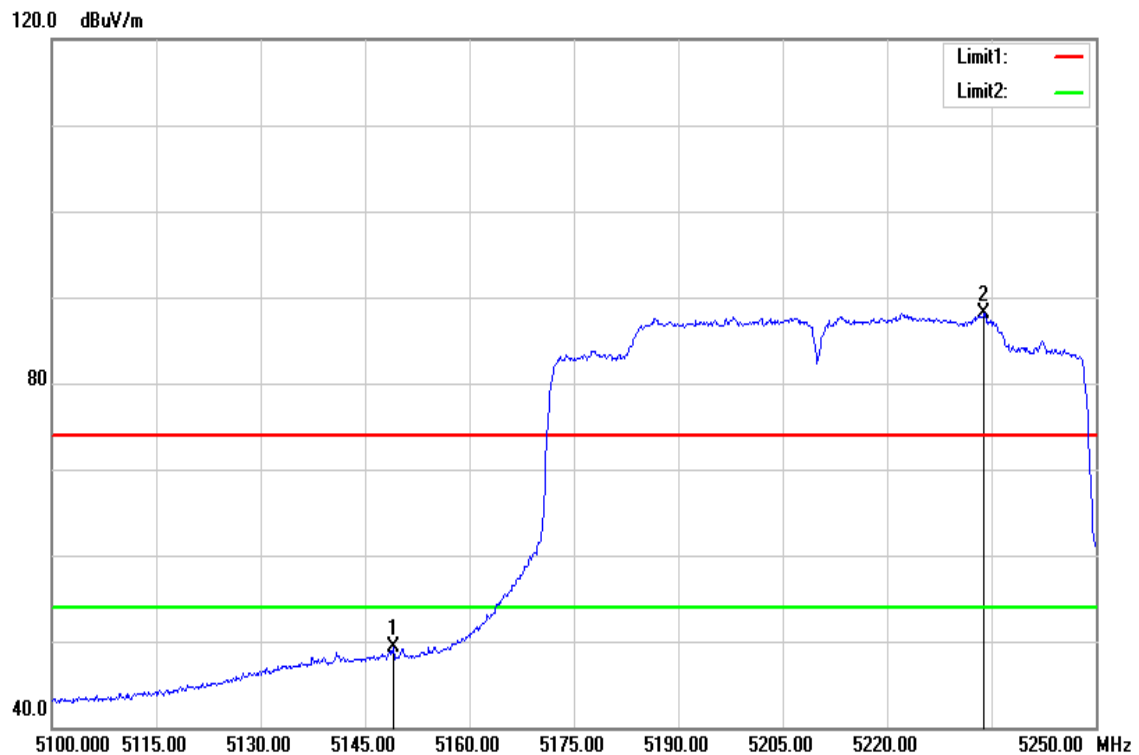
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5150.000	43.61	5.00	48.61	54.00	-5.39	AVG
5213.700	85.13	5.23	90.36	-	-	AVG
5350.000	37.65	5.36	43.01	54.00	-10.99	AVG

Test Mode	IEEE 802.11ac VHT80 5210MHz	Temp/Hum	21.5(°C)/ 41%RH
Test Item	Band Edge	Test Date	November 7, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Peak		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5147.400	57.68	4.99	62.67	74.00	-11.33	peak
5222.100	93.63	5.22	98.85	-	-	peak

Test Mode	IEEE 802.11ac VHT80 5210MHz	Temperature	21.5(°C)/ 41%RH
Test Item	Band Edge	Test Date	November 7, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Average		



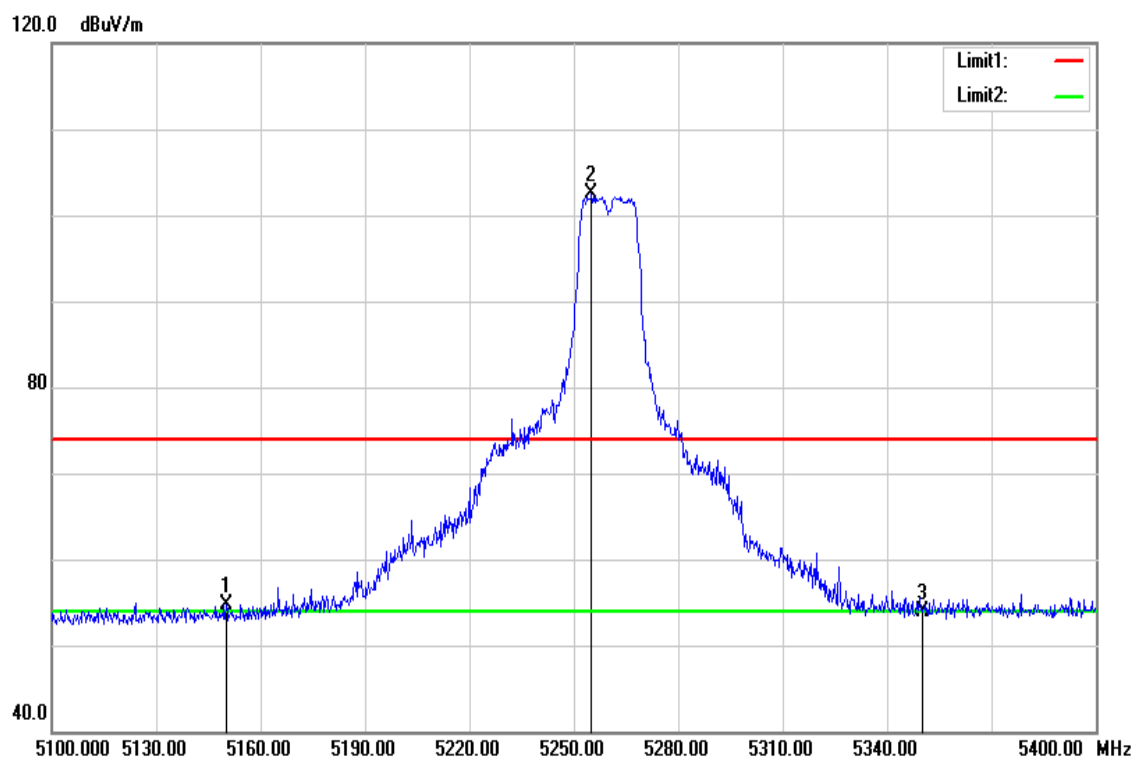
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5149.050	44.22	5.00	49.22	54.00	-4.78	AVG
5233.950	82.85	5.25	88.10	-	-	AVG

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Test Data

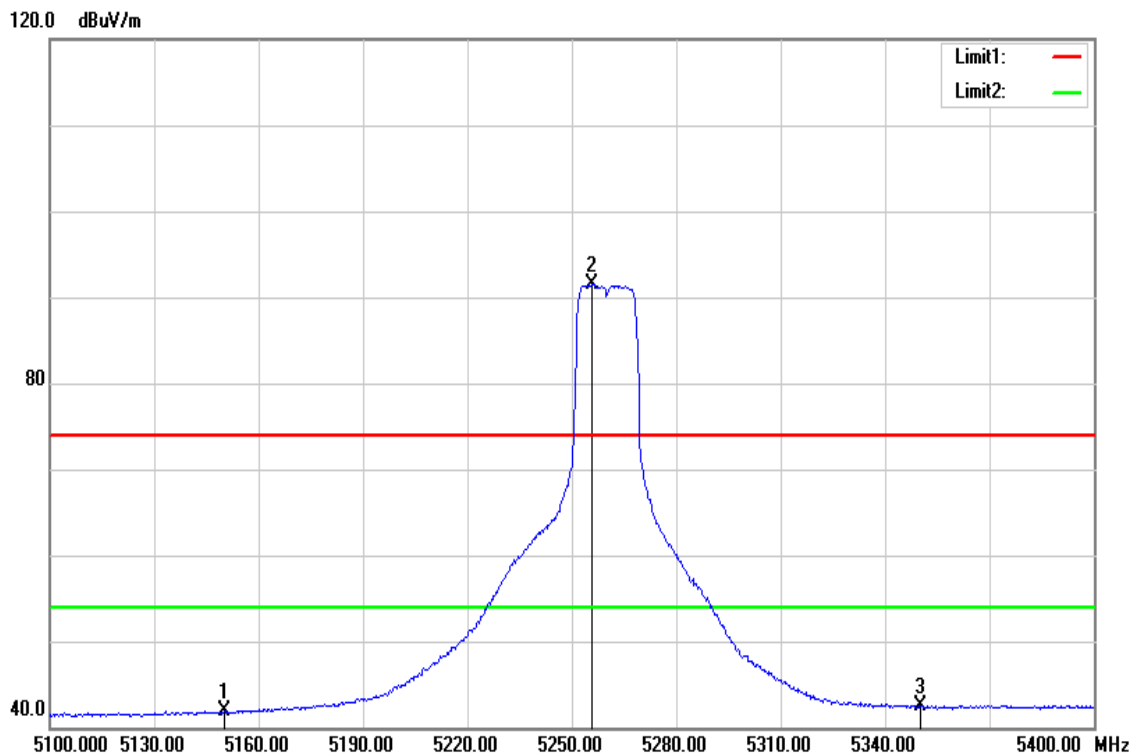
Band Edge Test Data for UNII-2a

Test Mode	IEEE 802.11a Low CH	Temp/Hum	21.5(°C)/ 41%RH
Test Item	Band Edge	Test Date	November 7, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Peak		



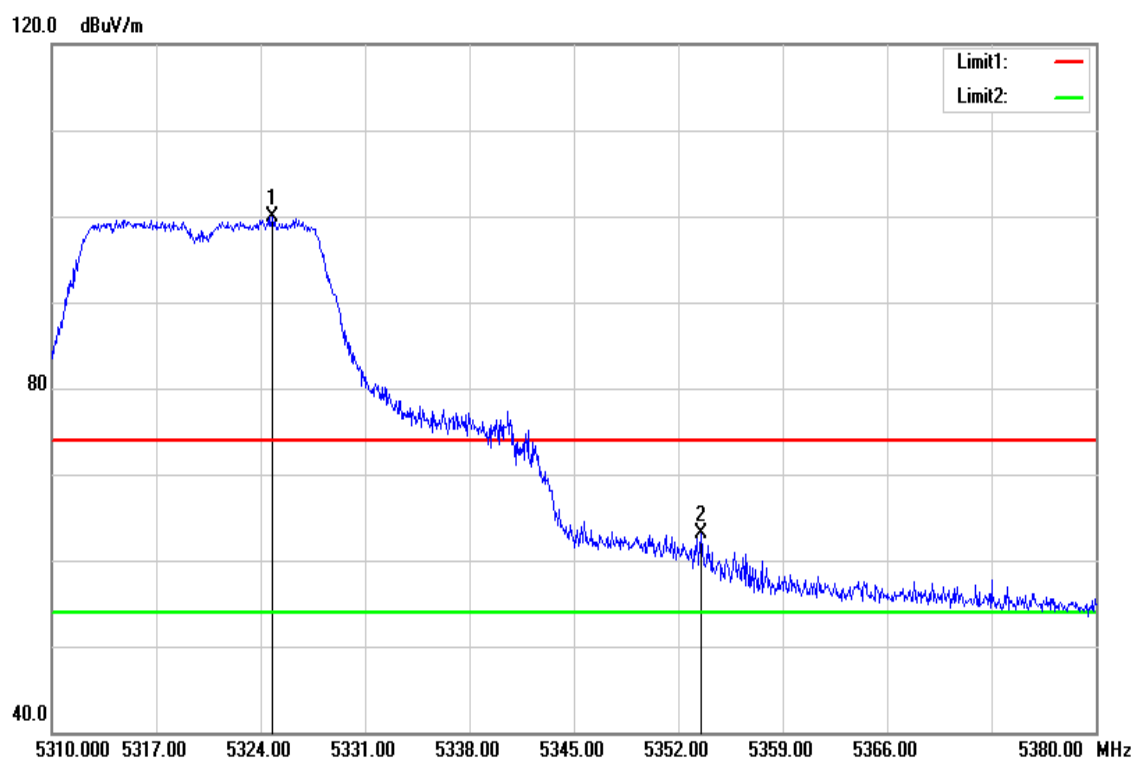
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5150.000	49.79	5.00	54.79	74.00	-19.21	peak
5255.100	97.17	5.25	102.42	-	-	peak
5350.000	48.49	5.36	53.85	74.00	-20.15	peak

Test Mode	IEEE 802.11a Low CH	Temperature	21.5(°C)/ 41%RH
Test Item	Band Edge	Test Date	November 7, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Average		



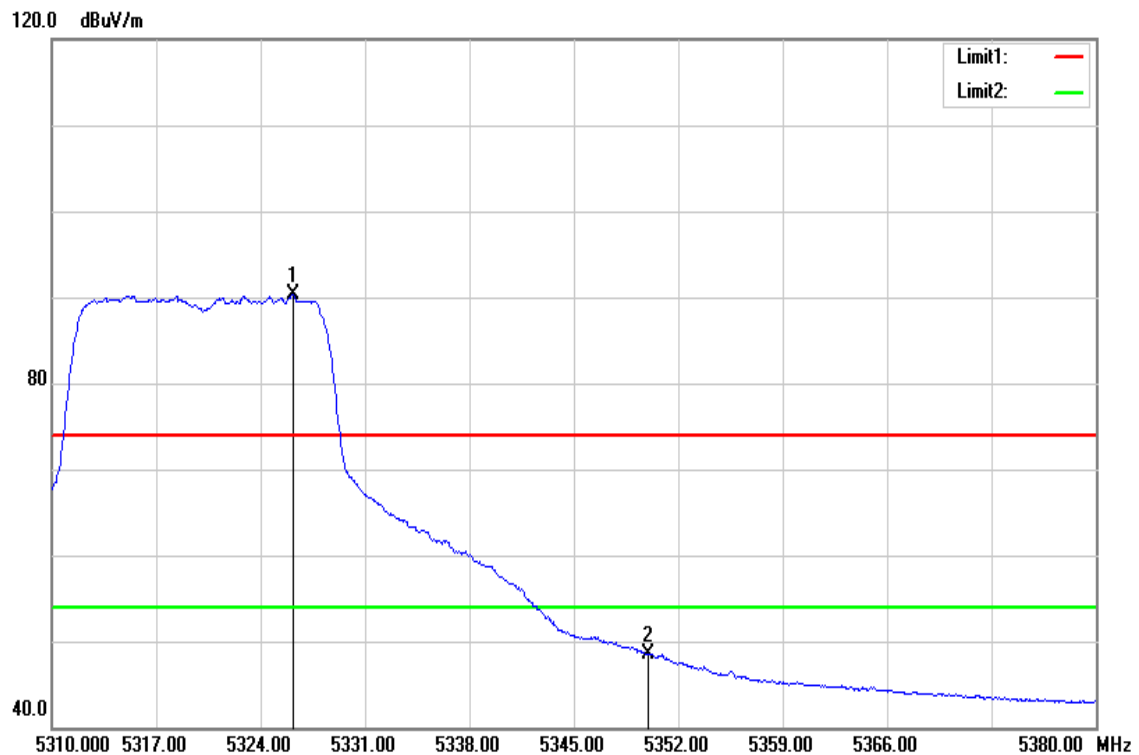
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5150.000	36.86	5.00	41.86	54.00	-12.14	AVG
5255.700	86.25	5.26	91.51	-	-	AVG
5350.000	37.06	5.36	42.42	54.00	-11.58	AVG

Test Mode	IEEE 802.11a High CH	Temp/Hum	21.5(°C)/ 41%RH
Test Item	Band Edge	Test Date	November 7, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Peak		



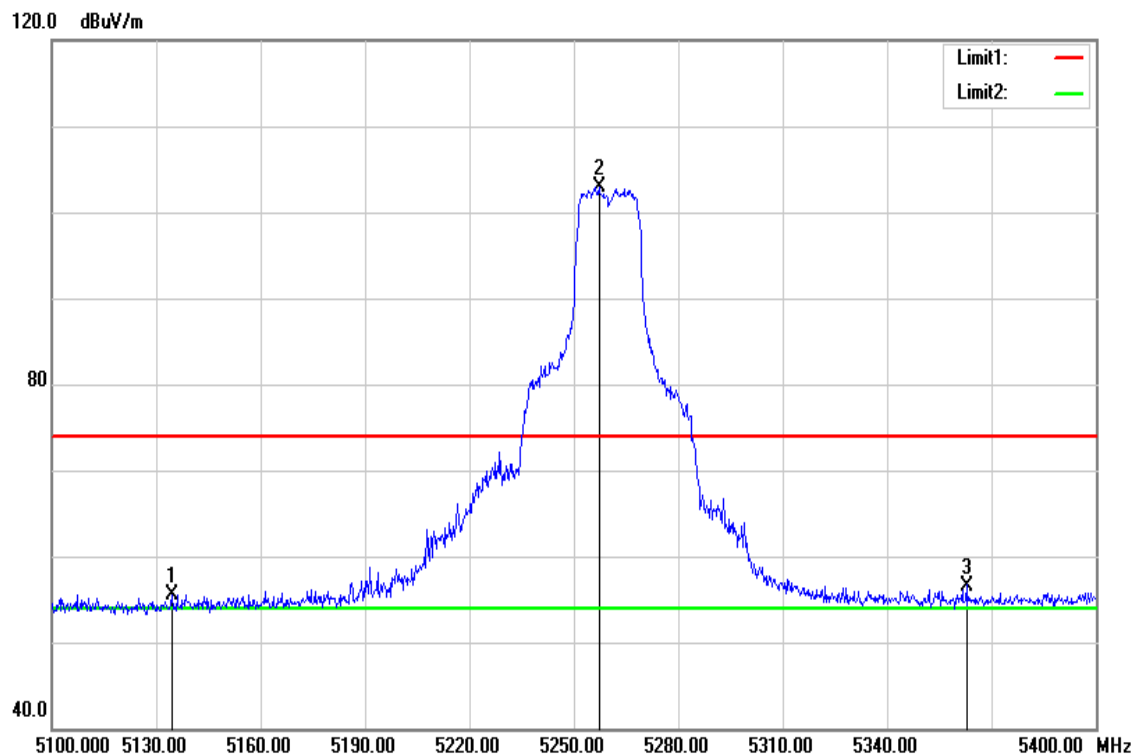
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5324.770	94.49	5.34	99.83	-	-	peak
5353.540	57.66	5.37	63.03	74.00	-10.97	peak

Test Mode	IEEE 802.11a High CH	Temperature	21.5(°C)/ 41%RH
Test Item	Band Edge	Test Date	November 7, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Average		



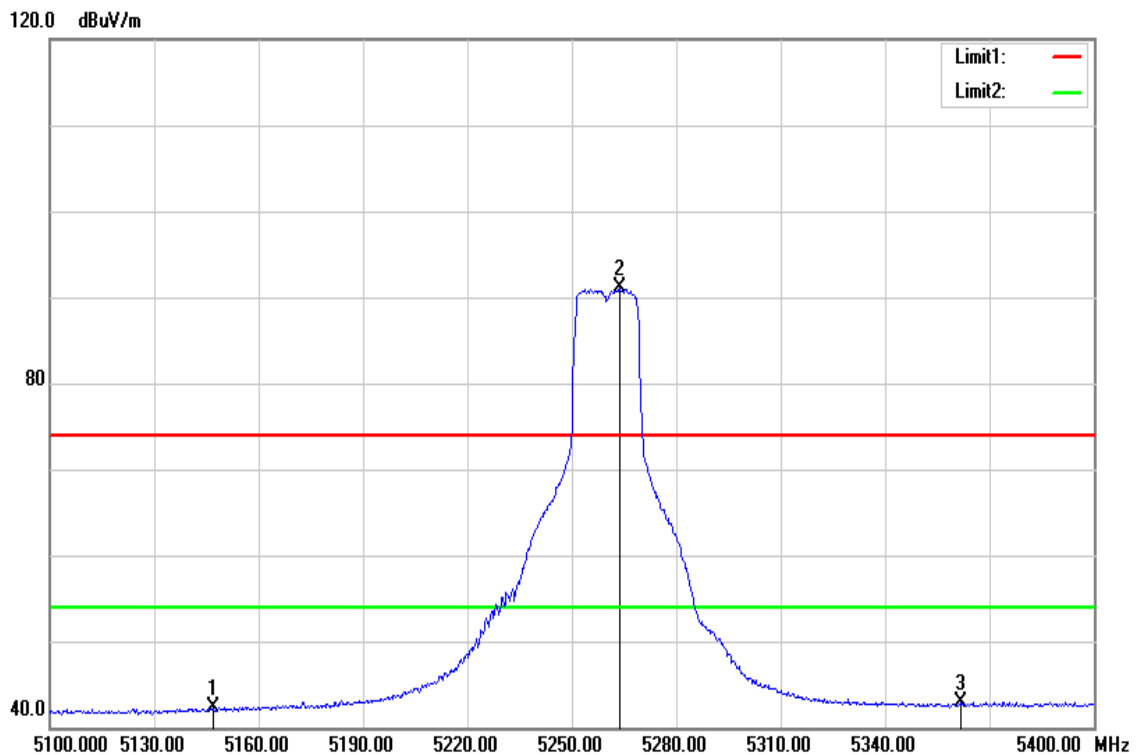
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5326.170	85.00	5.33	90.33	-	-	AVG
5350.000	43.15	5.36	48.51	54.00	-5.49	AVG

Test Mode	IEEE 802.11n HT20 Low CH	Temp/Hum	21.5(°C)/ 41%RH
Test Item	Band Edge	Test Date	November 7, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Peak		



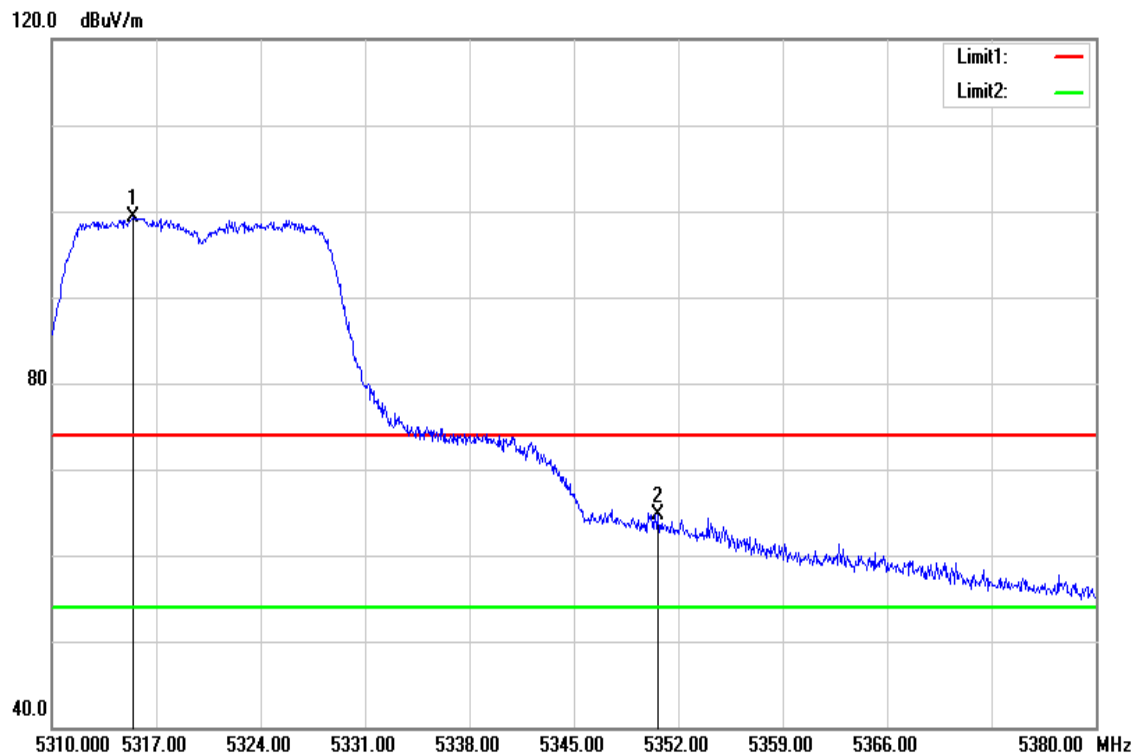
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5134.500	50.56	4.94	55.50	74.00	-18.50	peak
5257.200	97.72	5.26	102.98	-	-	peak
5362.800	51.23	5.37	56.60	74.00	-17.40	peak

Test Mode	IEEE 802.11n HT20 Low CH	Temperature	21.5(°C)/ 41%RH
Test Item	Band Edge	Test Date	November 7, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Average		



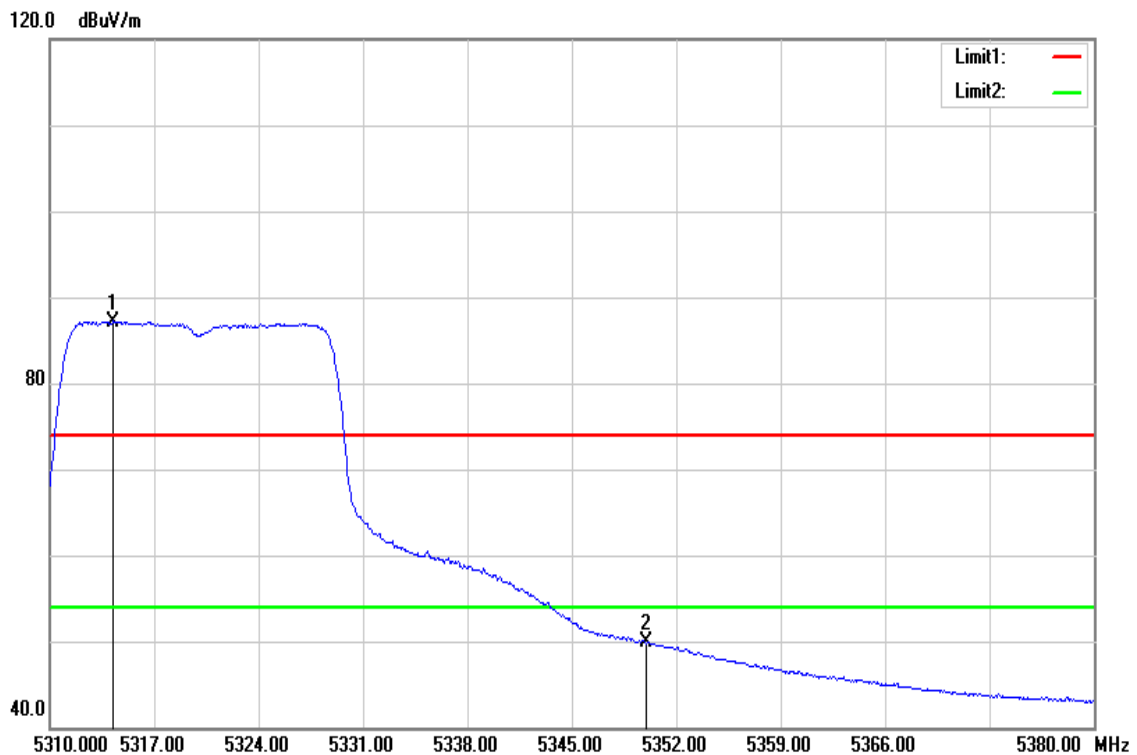
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5147.100	37.30	4.99	42.29	54.00	-11.71	AVG
5263.800	85.77	5.27	91.04	-	-	AVG
5361.900	37.56	5.37	42.93	54.00	-11.07	AVG

Test Mode	IEEE 802.11n HT20 High CH	Temp/Hum	21.5(°C)/ 41%RH
Test Item	Band Edge	Test Date	November 7, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Peak		



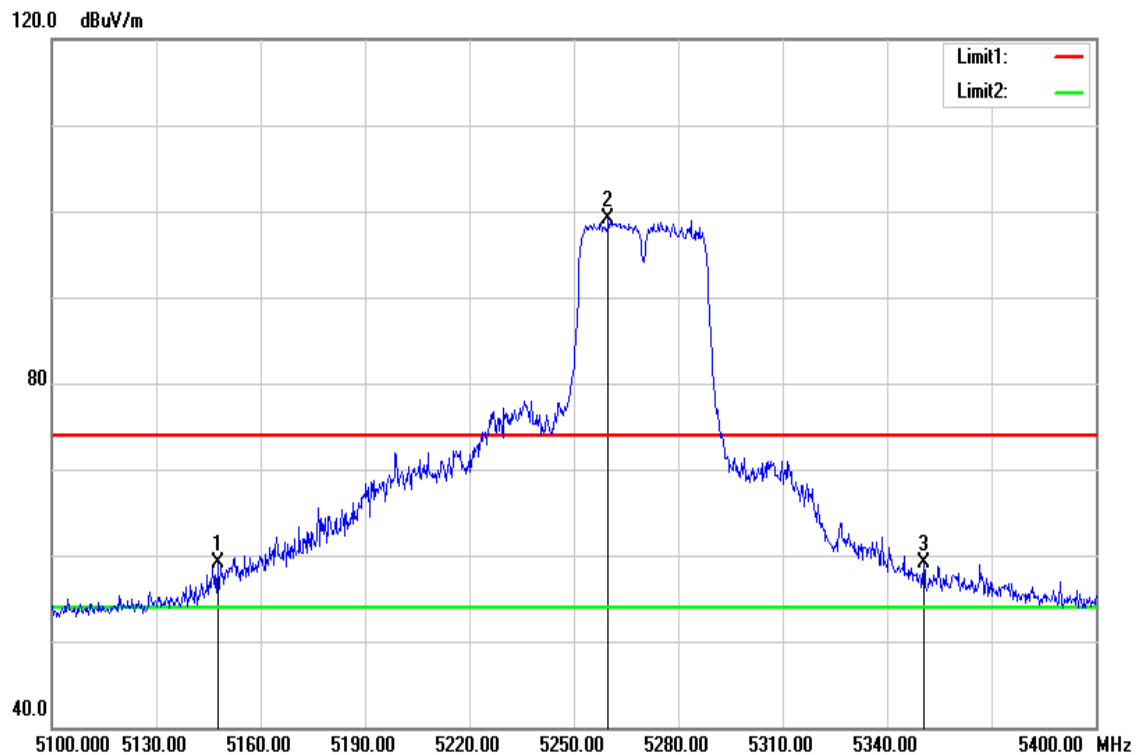
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5315.460	93.92	5.32	99.24	-	-	peak
5350.600	59.42	5.36	64.78	74.00	-9.22	peak

Test Mode	IEEE 802.11n HT20 High CH	Temperature	21.5(°C)/ 41%RH
Test Item	Band Edge	Test Date	November 7, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Average		



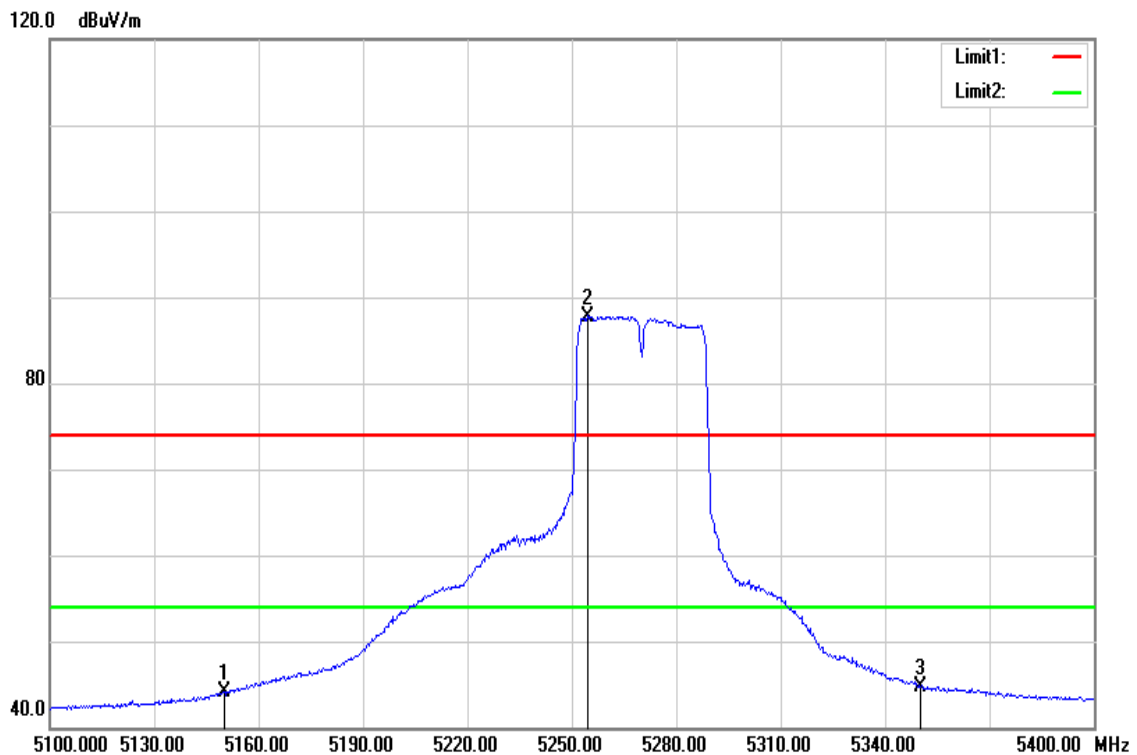
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5314.270	81.87	5.33	87.20	-	-	AVG
5350.000	44.45	5.36	49.81	54.00	-4.19	AVG

Test Mode	IEEE 802.11n HT40 Low CH	Temp/Hum	21.5(°C)/ 41%RH
Test Item	Band Edge	Test Date	November 7, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Peak		



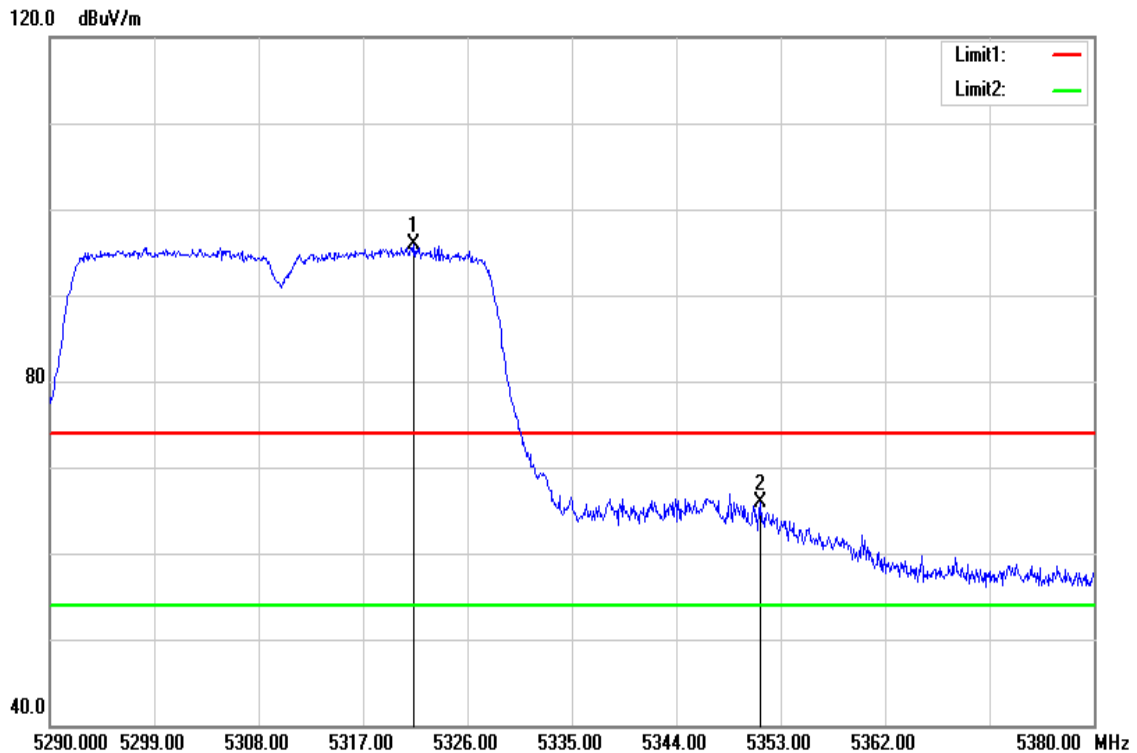
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5147.700	54.15	5.00	59.15	74.00	-14.85	peak
5259.900	93.79	5.27	99.06	-	-	peak
5350.500	53.82	5.36	59.18	74.00	-14.82	peak

Test Mode	IEEE 802.11n HT40 Low CH	Temperature	21.5(°C)/ 41%RH
Test Item	Band Edge	Test Date	November 7, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Average		



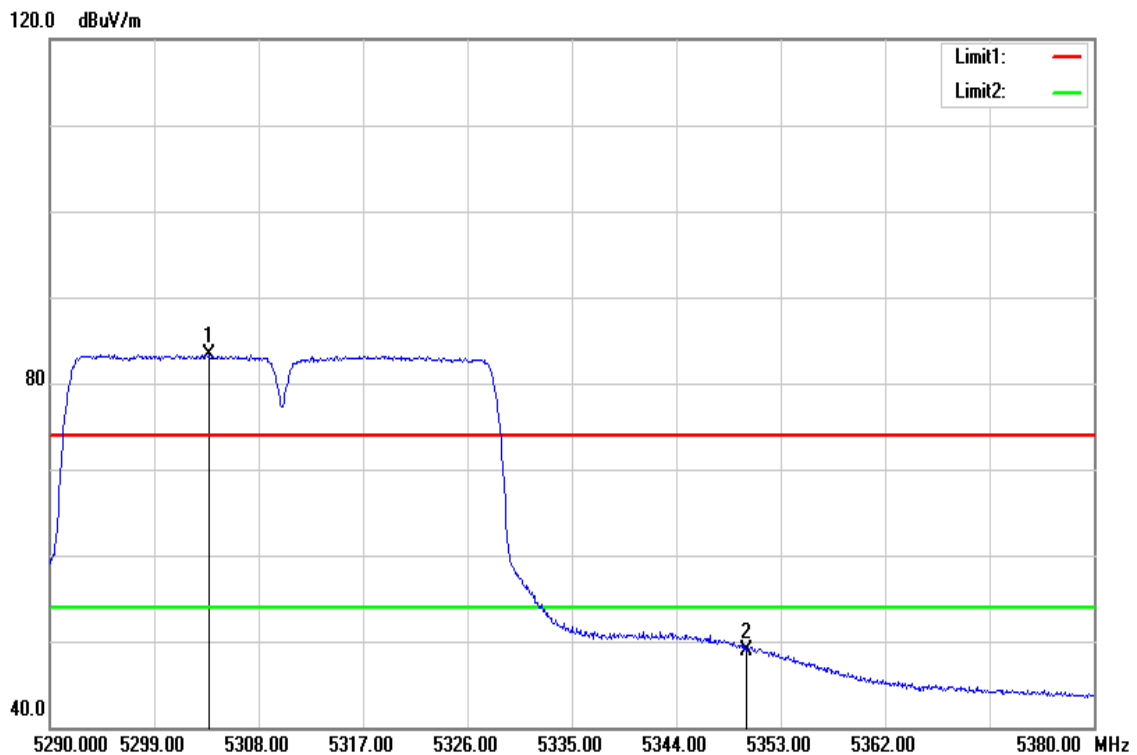
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5150.000	39.06	5.00	44.06	54.00	-9.94	AVG
5254.500	82.54	5.26	87.80	-	-	AVG
5350.000	39.42	5.36	44.78	54.00	-9.22	AVG

Test Mode	IEEE 802.11n HT40 High CH	Temp/Hum	21.5(°C)/ 41%RH
Test Item	Band Edge	Test Date	November 7, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Peak		



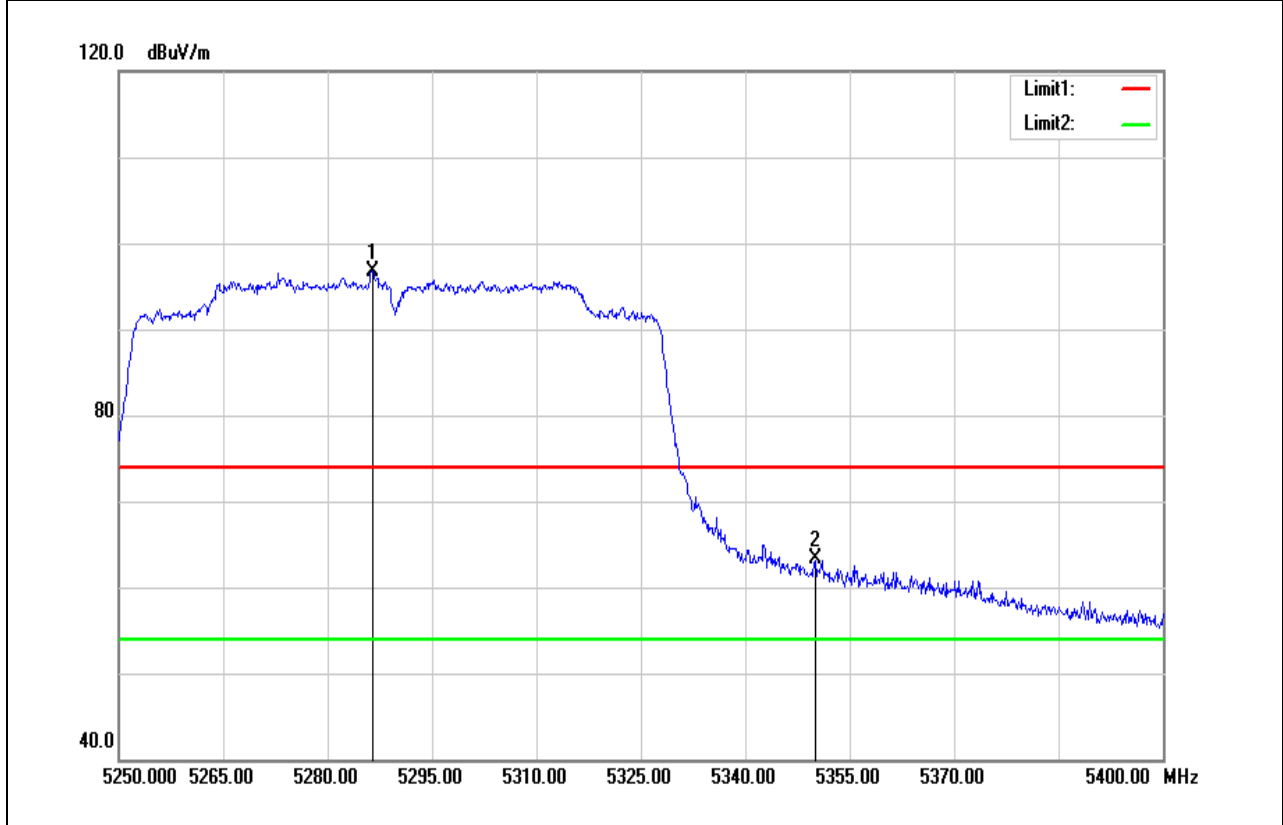
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5321.410	90.52	5.33	95.85	-	-	peak
5351.290	60.57	5.36	65.93	74.00	-8.07	peak

Test Mode	IEEE 802.11n HT40 High CH	Temperature	21.5(°C)/ 41%RH
Test Item	Band Edge	Test Date	November 7, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Average		



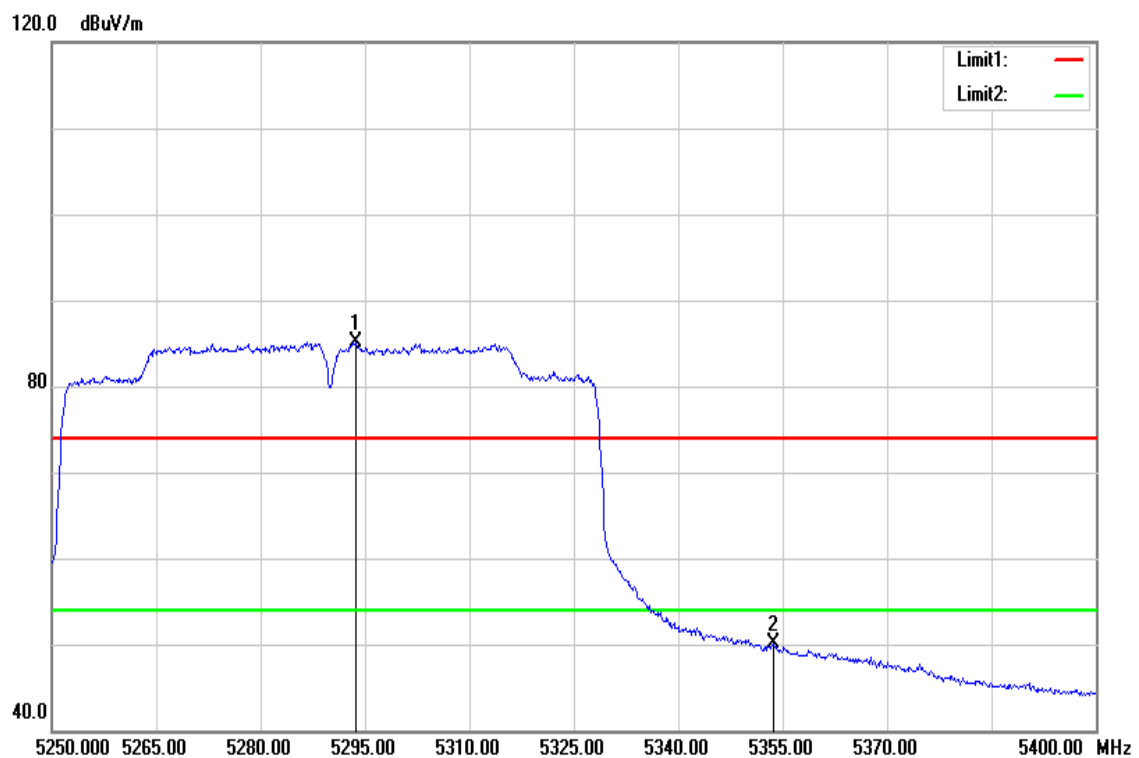
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5303.680	78.01	5.31	83.32	-	-	AVG
5350.000	43.51	5.36	48.87	54.00	-5.13	AVG

Test Mode	IEEE 802.11ac VHT80 5290MHz	Temp/Hum	21.5(°C)/ 41%RH
Test Item	Band Edge	Test Date	November 7, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Peak		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5286.450	91.34	5.29	96.63	-	-	peak
5350.050	57.84	5.36	63.20	74.00	-10.80	peak

Test Mode	IEEE 802.11ac VHT80 5290MHz	Temperature	21.5(°C)/ 41%RH
Test Item	Band Edge	Test Date	November 7, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Average		

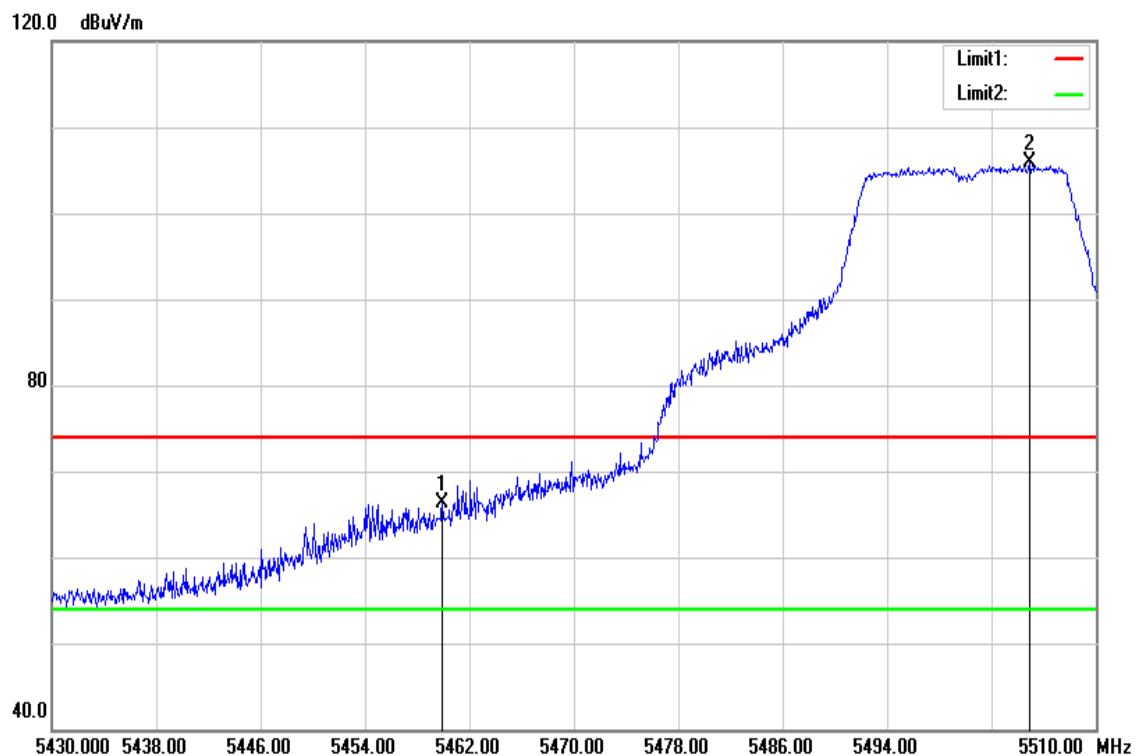


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5293.650	79.81	5.30	85.11	-	-	AVG
5353.650	44.64	5.37	50.01	54.00	-3.99	AVG

Test Data

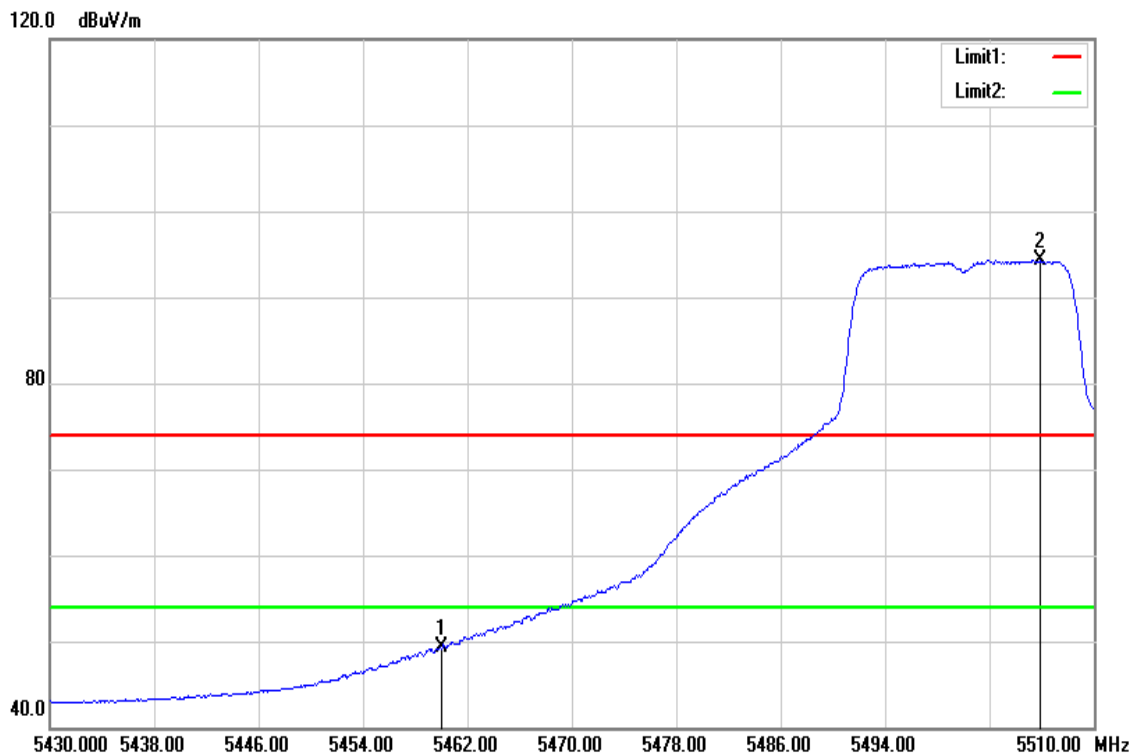
Band Edge Test Data for UNII-2c

Test Mode	IEEE 802.11a Low CH	Temp/Hum	21.5(°C)/ 41%RH
Test Item	Band Edge	Test Date	November 7, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Peak		



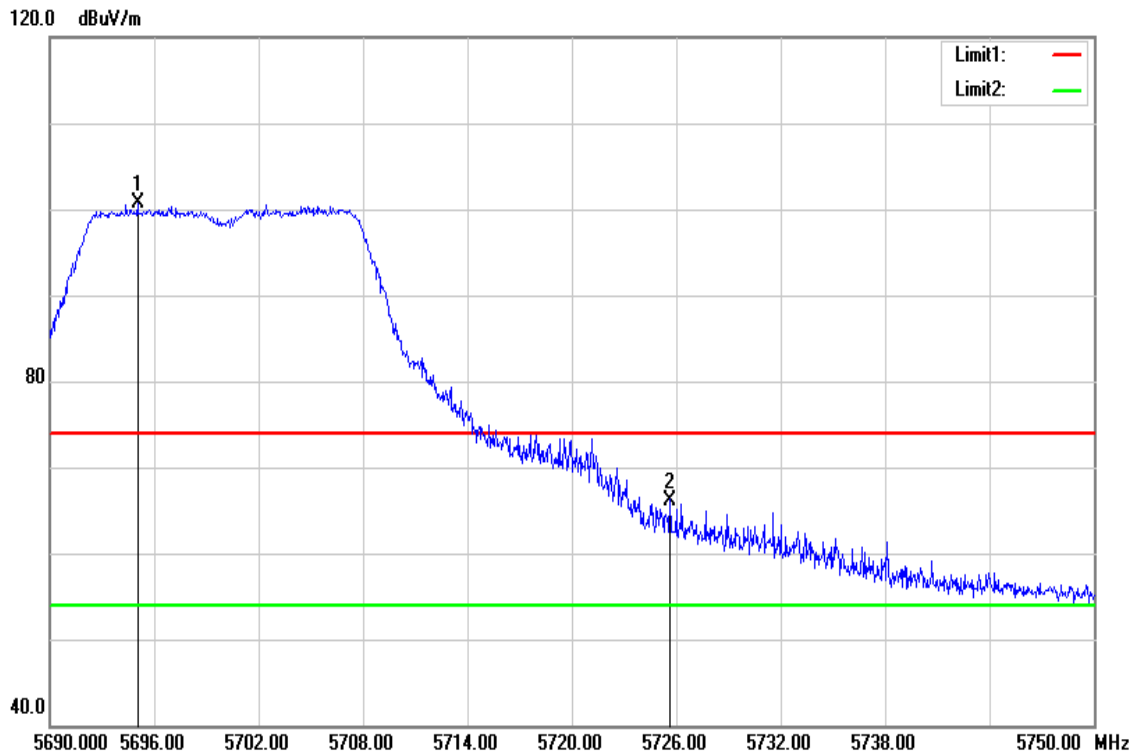
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5459.920	60.61	5.68	66.29	74.00	-7.71	peak
5504.880	99.94	5.88	105.82	-	-	peak

Test Mode	IEEE 802.11a Low CH	Temperature	21.5(°C)/ 41%RH
Test Item	Band Edge	Test Date	November 7, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Average		



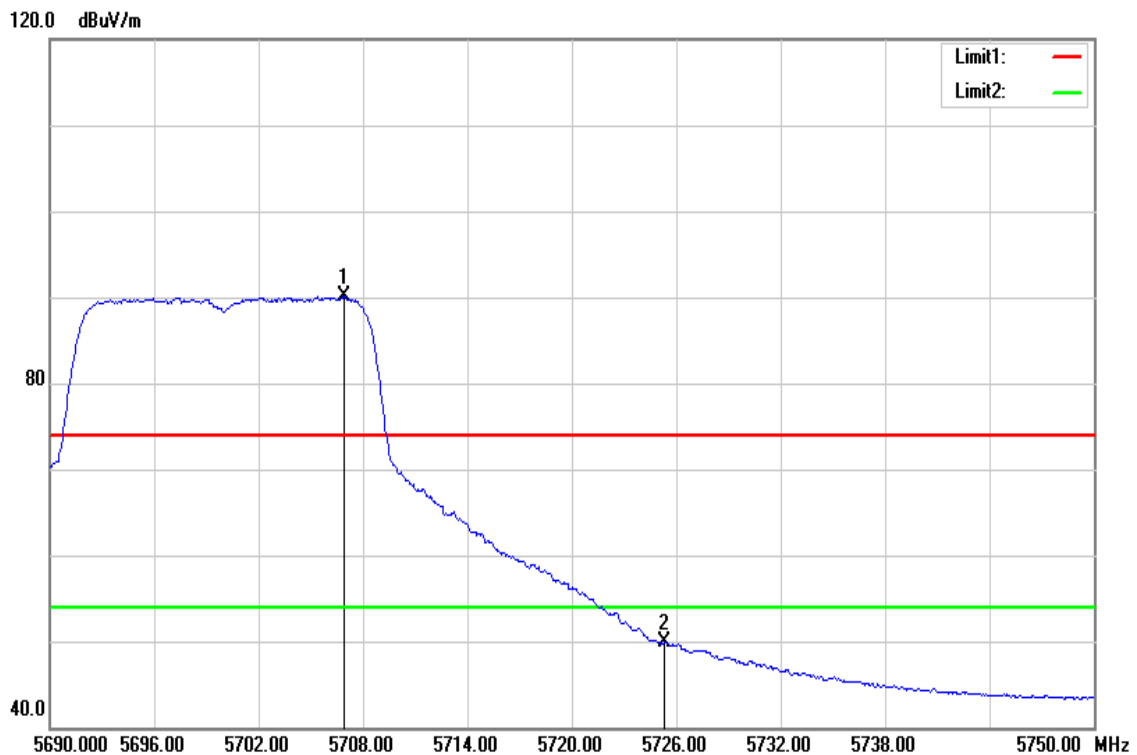
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5460.000	43.52	5.68	49.20	54.00	-4.80	AVG
5505.840	88.39	5.88	94.27	-	-	AVG

Test Mode	IEEE 802.11a High CH	Temp/Hum	21.5(°C)/ 41%RH
Test Item	Band Edge	Test Date	November 7, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Peak		



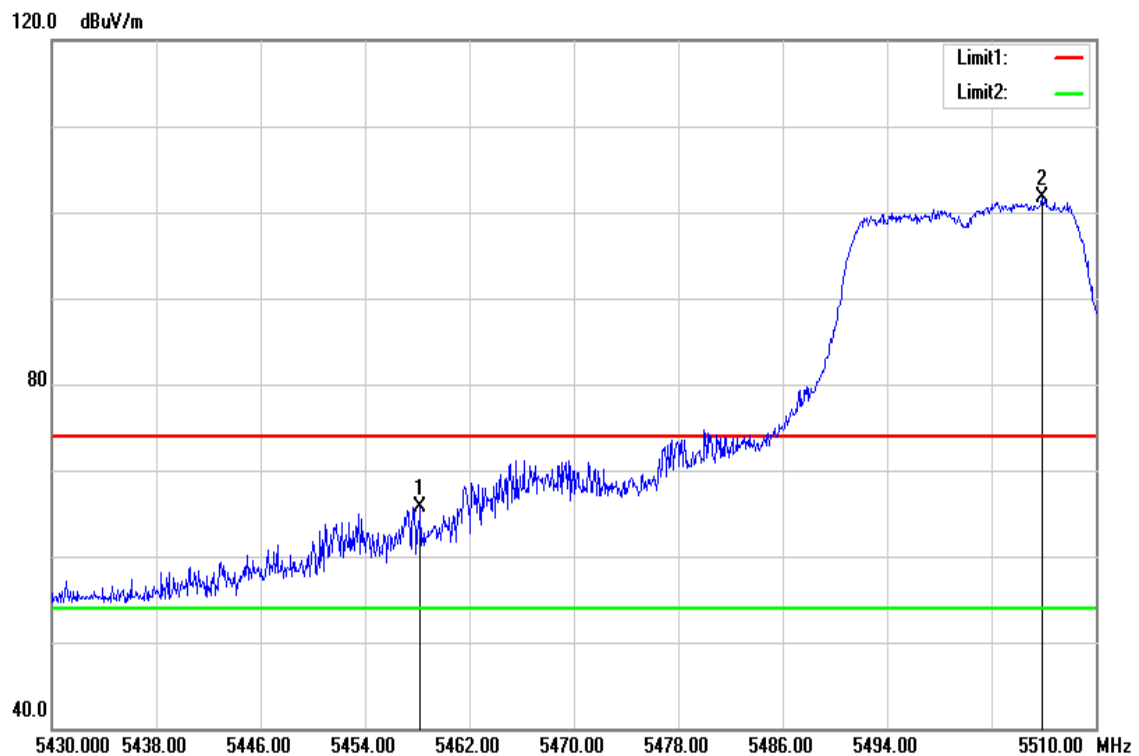
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5695.040	94.11	6.63	100.74	-	-	peak
5725.640	59.43	6.77	66.20	74.00	-7.80	peak

Test Mode	IEEE 802.11a High CH	Temperature	21.5(°C)/ 41%RH
Test Item	Band Edge	Test Date	November 7, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Average		



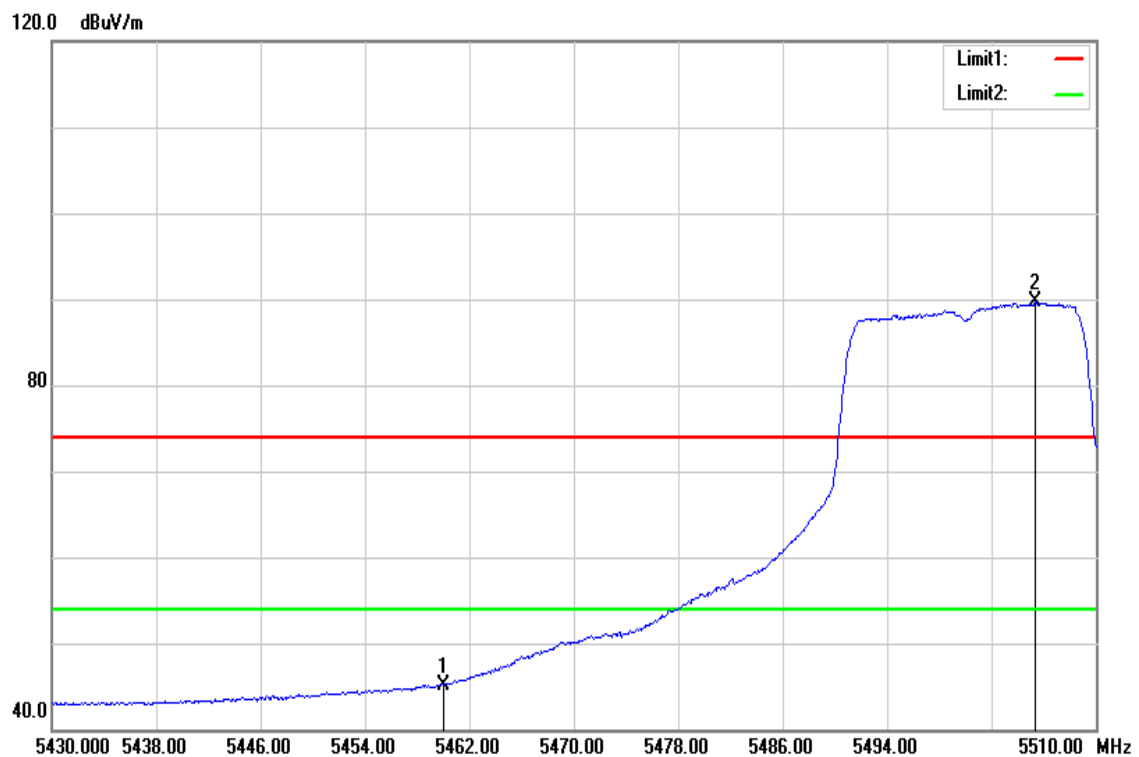
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5706.920	83.40	6.69	90.09	-	-	AVG
5725.340	43.16	6.77	49.93	54.00	-4.07	AVG

Test Mode	IEEE 802.11n HT20 Low CH	Temp/Hum	21.5(°C)/ 41%RH
Test Item	Band Edge	Test Date	November 7, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Peak		



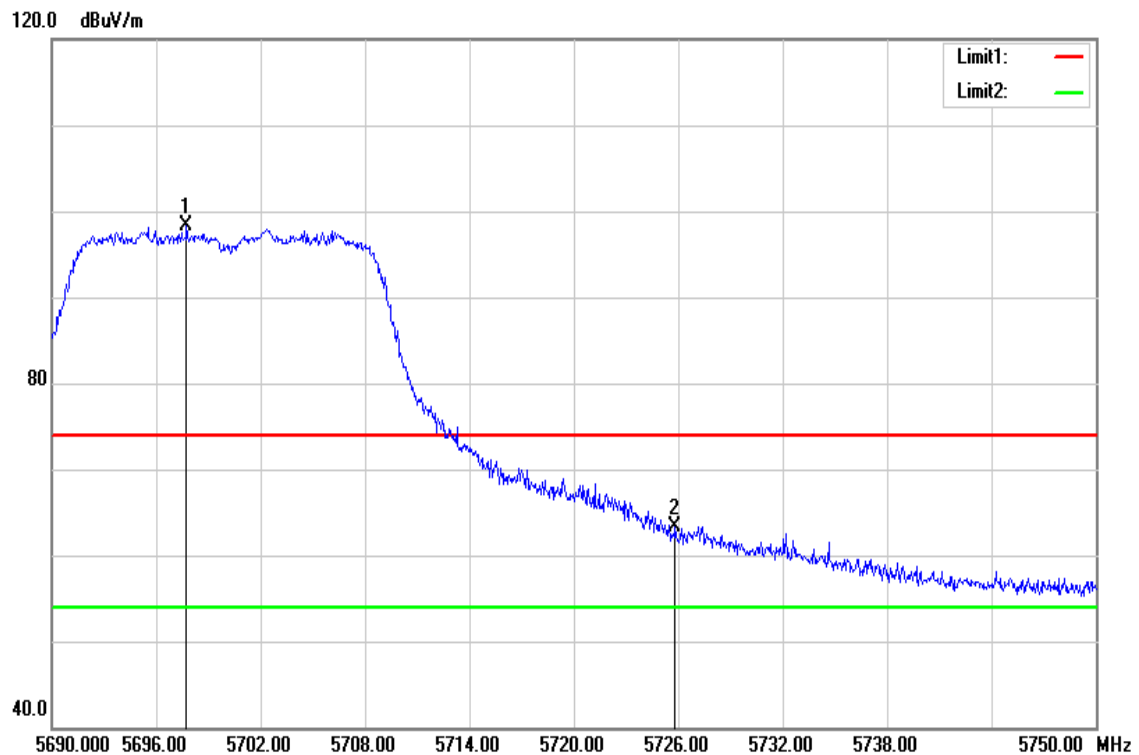
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5458.240	60.06	5.67	65.73	74.00	-8.27	peak
5505.840	95.92	5.88	101.80	-	-	peak

Test Mode	IEEE 802.11n HT20 Low CH	Temperature	21.5(°C)/ 41%RH
Test Item	Band Edge	Test Date	November 7, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Average		



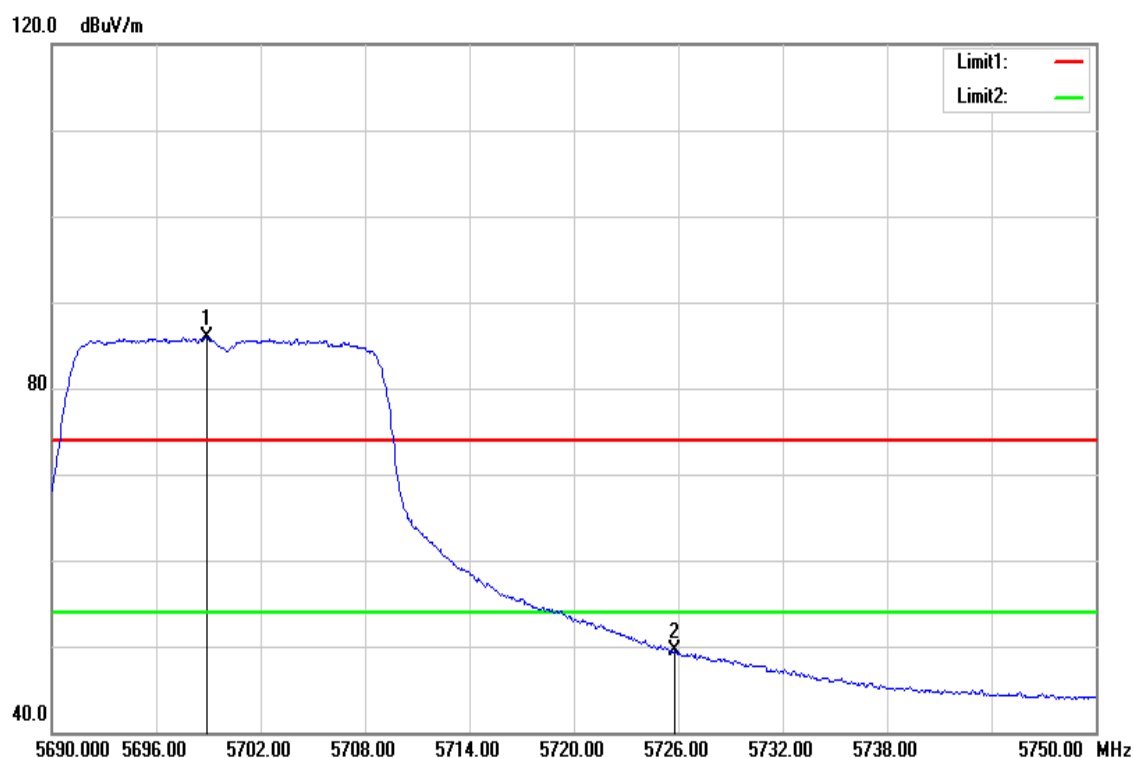
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5460.000	39.50	5.68	45.18	54.00	-8.82	AVG
5505.360	83.78	5.88	89.66	-	-	AVG

Test Mode	IEEE 802.11n HT20 High CH	Temp/Hum	21.5(°C)/ 41%RH
Test Item	Band Edge	Test Date	November 7, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Peak		



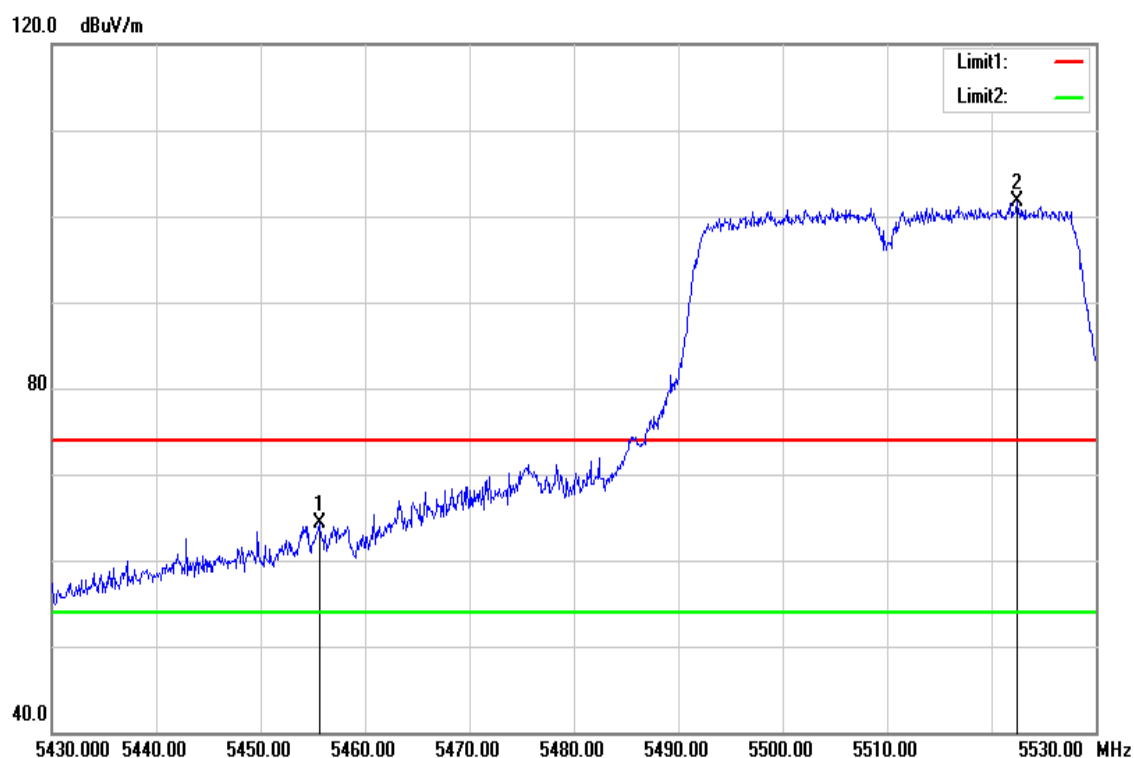
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5697.740	91.71	6.63	98.34	-	-	peak
5725.820	56.59	6.77	63.36	74.00	-10.64	peak

Test Mode	IEEE 802.11n HT20 High CH	Temperature	21.5(°C)/ 41%RH
Test Item	Band Edge	Test Date	November 7, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Average		



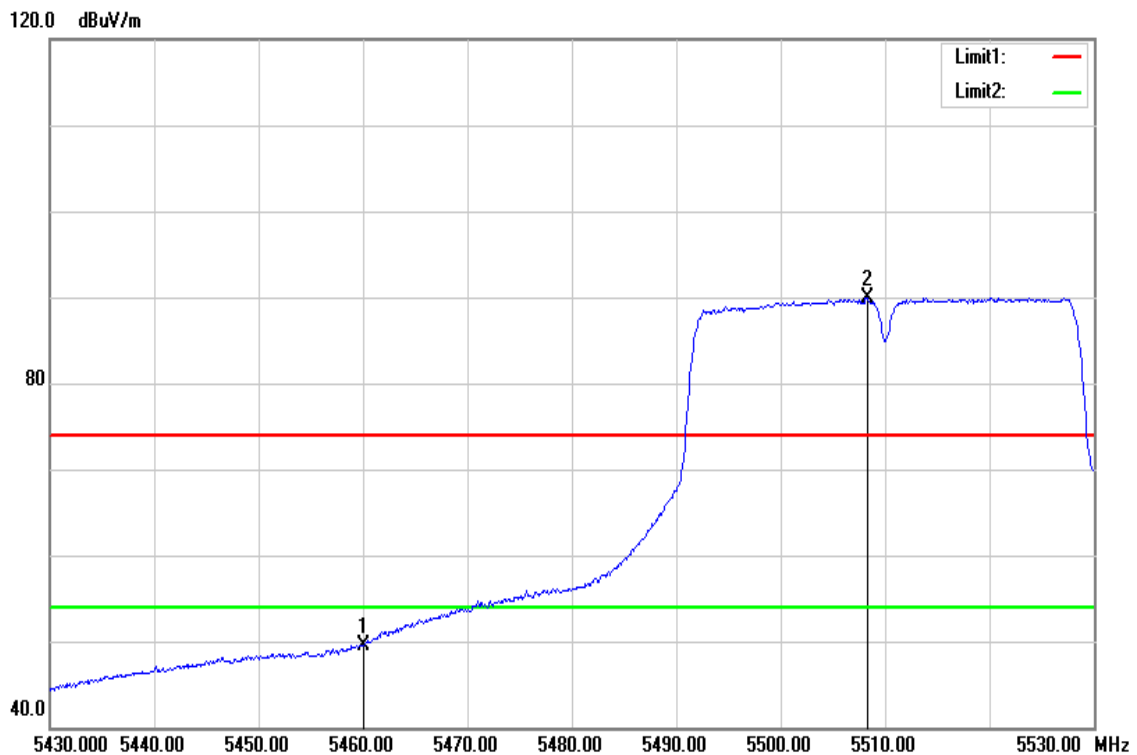
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5698.940	79.23	6.65	85.88	-	-	AVG
5725.820	42.64	6.77	49.41	54.00	-4.59	AVG

Test Mode	IEEE 802.11n HT40 Low CH	Temp/Hum	21.5(°C)/ 41%RH
Test Item	Band Edge	Test Date	November 7, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Peak		



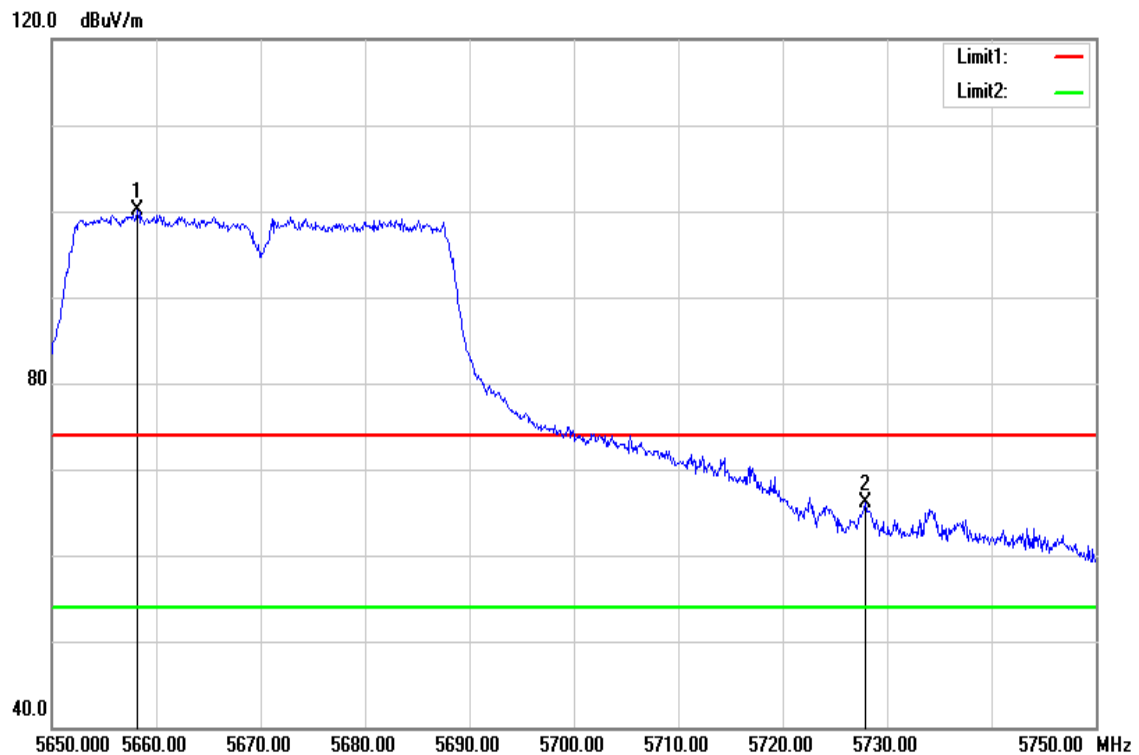
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5455.600	58.61	5.66	64.27	74.00	-9.73	peak
5522.400	95.82	5.93	101.75	-	-	peak

Test Mode	IEEE 802.11n HT40 Low CH	Temperature	21.5(°C)/ 41%RH
Test Item	Band Edge	Test Date	November 7, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Average		



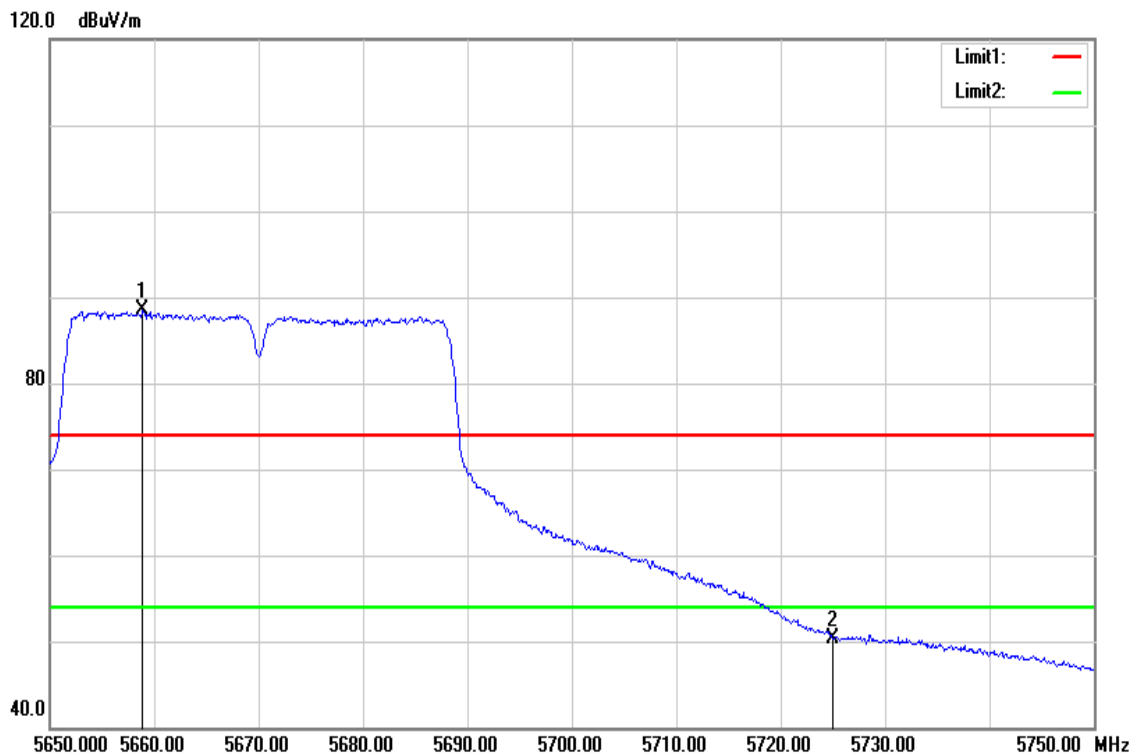
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5460.000	43.84	5.68	49.52	54.00	-4.48	AVG
5508.300	84.06	5.88	89.94	-	-	AVG

Test Mode	IEEE 802.11n HT40 High CH	Temp/Hum	21.5(°C)/ 41%RH
Test Item	Band Edge	Test Date	November 7, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Peak		



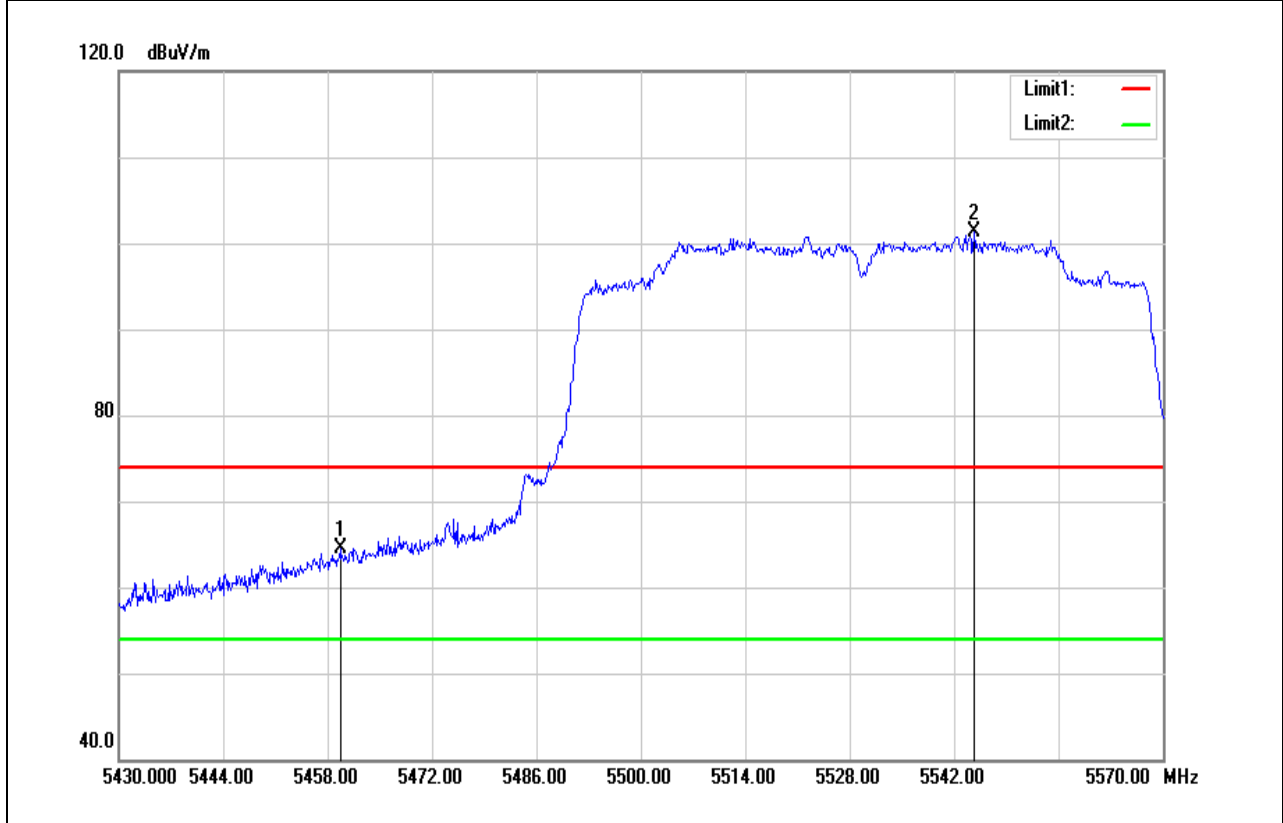
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5658.200	93.61	6.45	100.06	-	-	peak
5727.900	59.25	6.78	66.03	74.00	-7.97	peak

Test Mode	IEEE 802.11n HT40 High CH	Temperature	21.5(°C)/ 41%RH
Test Item	Band Edge	Test Date	November 7, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Average		



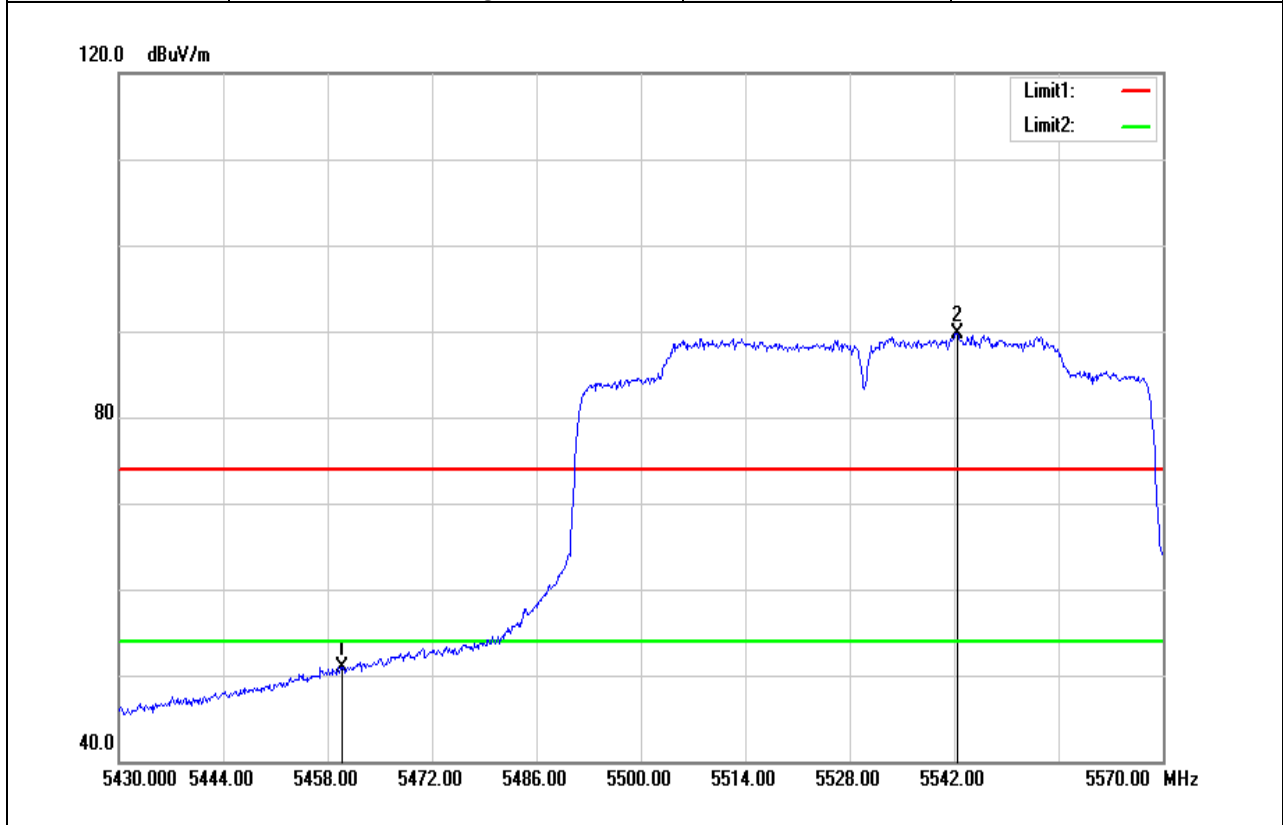
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5658.900	81.97	6.46	88.43	-	-	AVG
5725.000	43.55	6.77	50.32	54.00	-3.68	AVG

Test Mode	IEEE 802.11ac VHT80 5530MHz	Temp/Hum	21.5(°C)/ 41%RH
Test Item	Band Edge	Test Date	November 7, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Peak		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5459.680	58.86	5.68	64.54	74.00	-9.46	peak
5544.660	95.22	6.00	101.22	-	-	peak

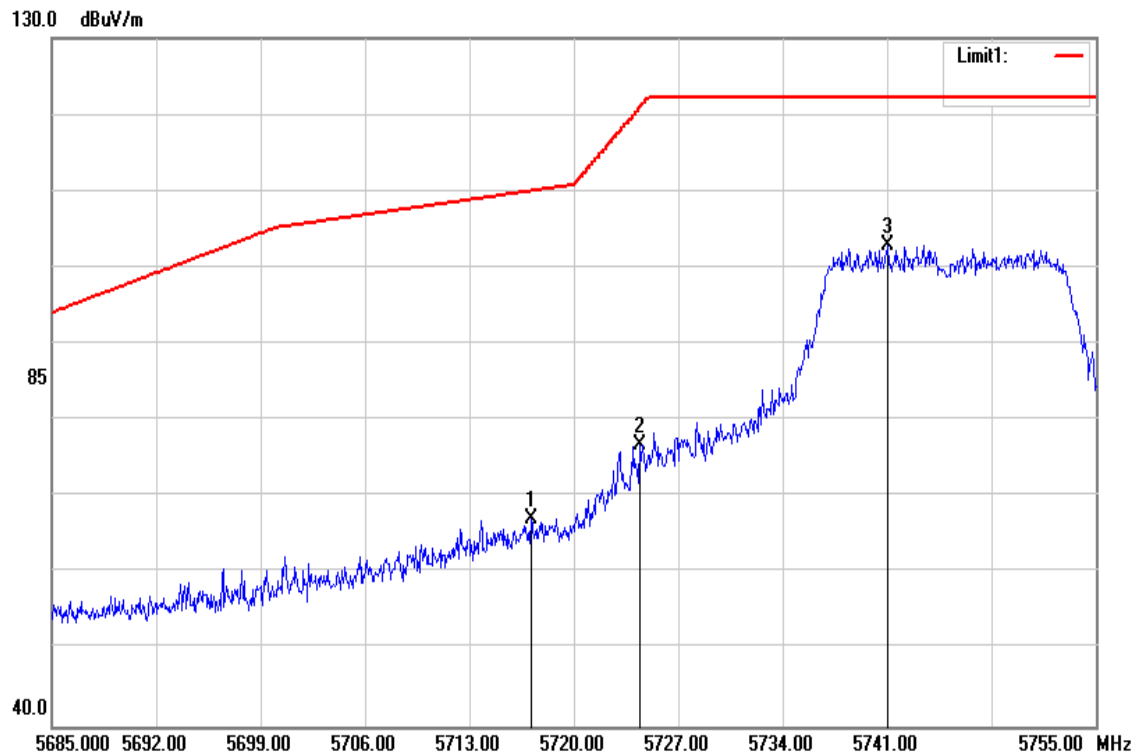
Test Mode	IEEE 802.11ac VHT80 Low CH	Temperature	21.5(°C)/ 41%RH
Test Item	Band Edge	Test Date	November 7, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Average		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5460.000	45.25	5.68	50.93	54.00	-3.07	AVG
5542.420	83.76	6.00	89.76	-	-	AVG

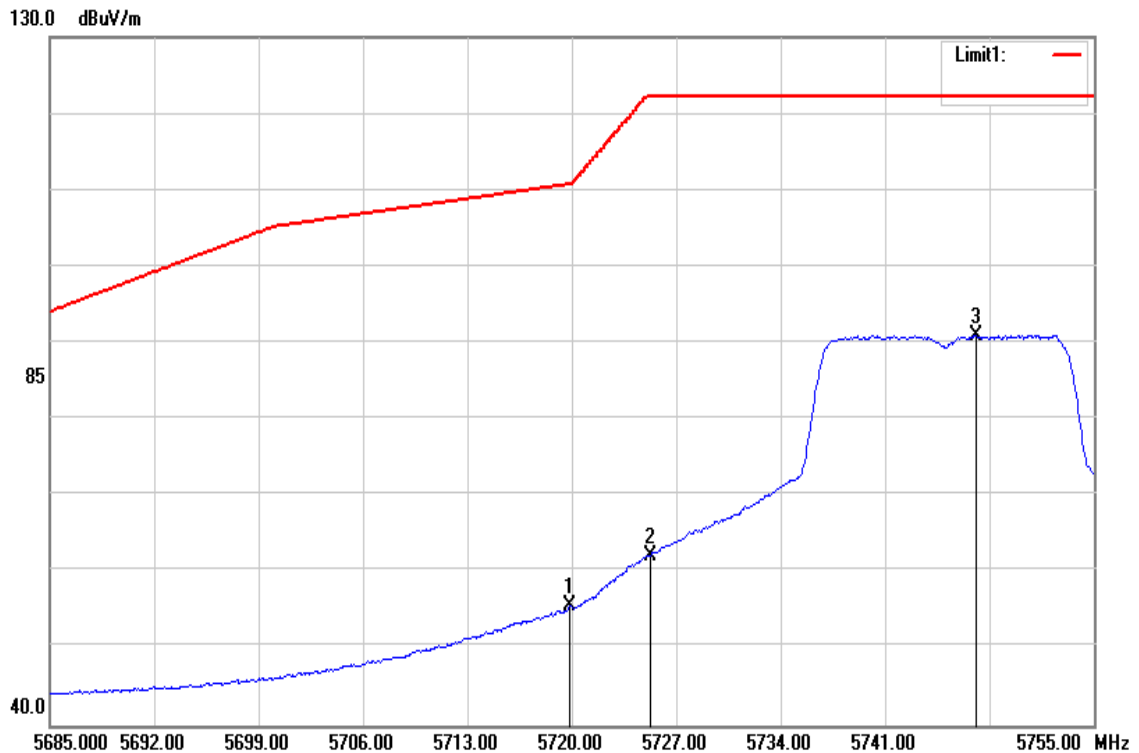
Band Edge Test Data for UNII-3

Test Mode	IEEE 802.11a Low CH	Temp/Hum	21.5(°C)/ 41%RH
Test Item	Band Edge	Test Date	November 7, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Peak		



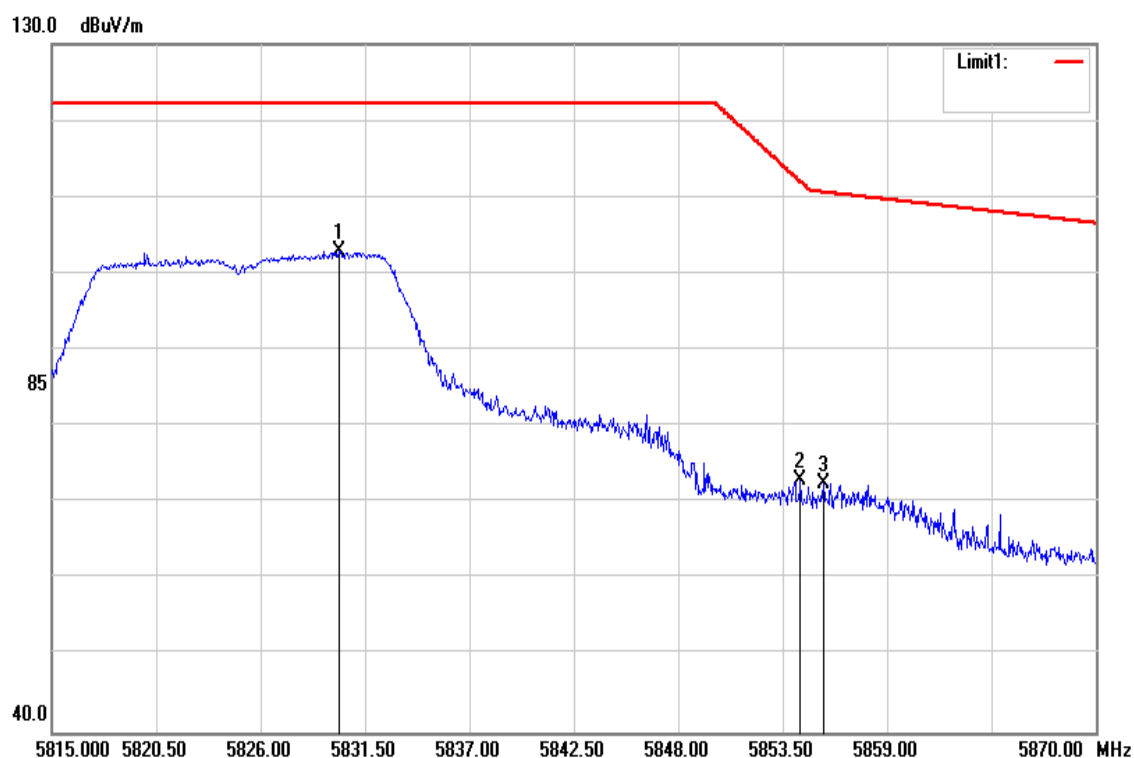
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5717.130	60.39	6.73	67.12	110.00	-42.88	peak
5724.410	70.09	6.77	76.86	120.85	-43.99	peak
5741.070	96.04	6.84	102.88	-	-	peak

Test Mode	IEEE 802.11a Low CH	Temperature	21.5(°C)/ 41%RH
Test Item	Band Edge	Test Date	November 7, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Average		



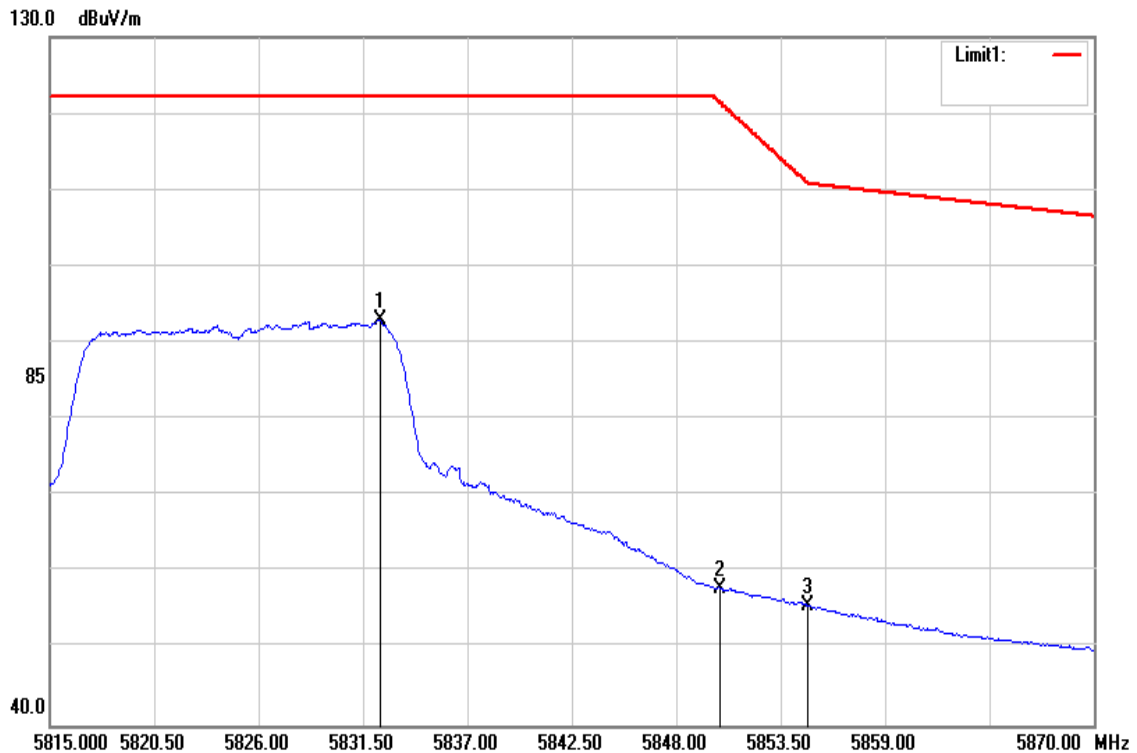
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5719.860	48.82	6.75	55.57	110.76	-55.19	AVG
5725.250	55.49	6.77	62.26	122.20	-59.94	AVG
5747.090	84.13	6.87	91.00	-	-	AVG

Test Mode	IEEE 802.11a High CH	Temp/Hum	21.5(°C)/ 41%RH
Test Item	Band Edge	Test Date	November 7, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Peak		



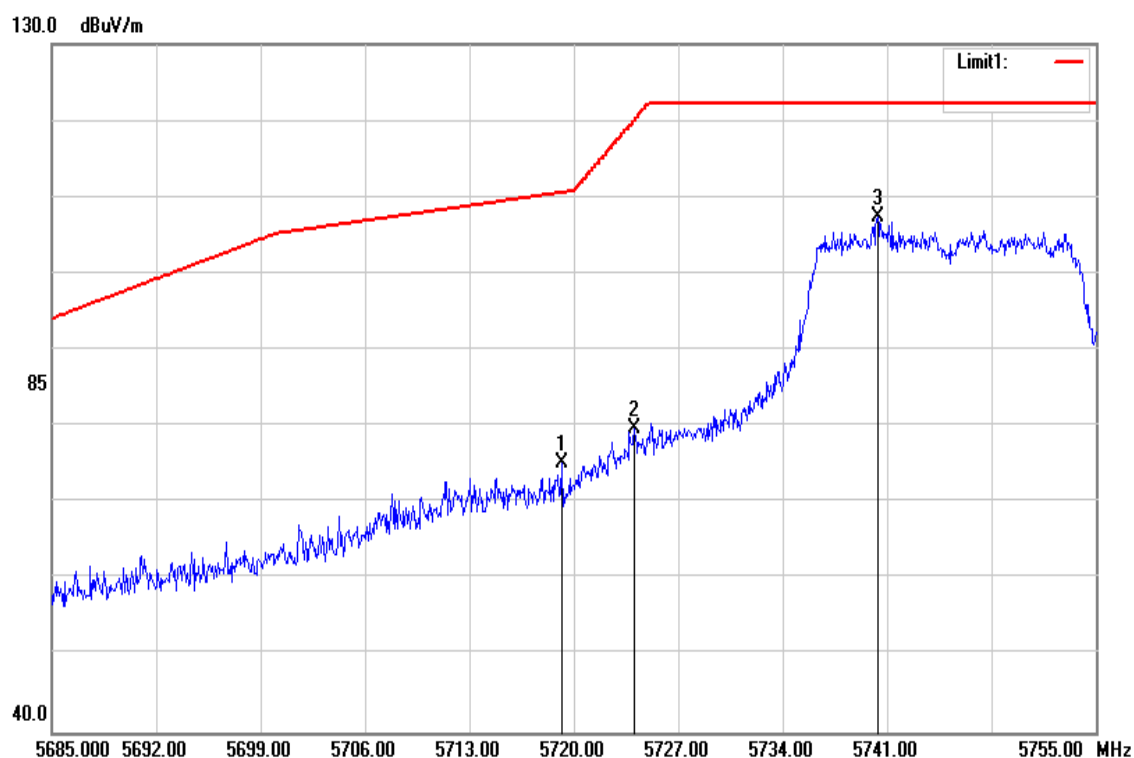
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5830.125	95.72	7.14	102.86	-	-	peak
5854.435	65.71	7.16	72.87	112.09	-39.22	peak
5855.645	65.41	7.16	72.57	110.62	-38.05	peak

Test Mode	IEEE 802.11a High CH	Temperature	21.5(°C)/ 41%RH
Test Item	Band Edge	Test Date	November 7, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Average		



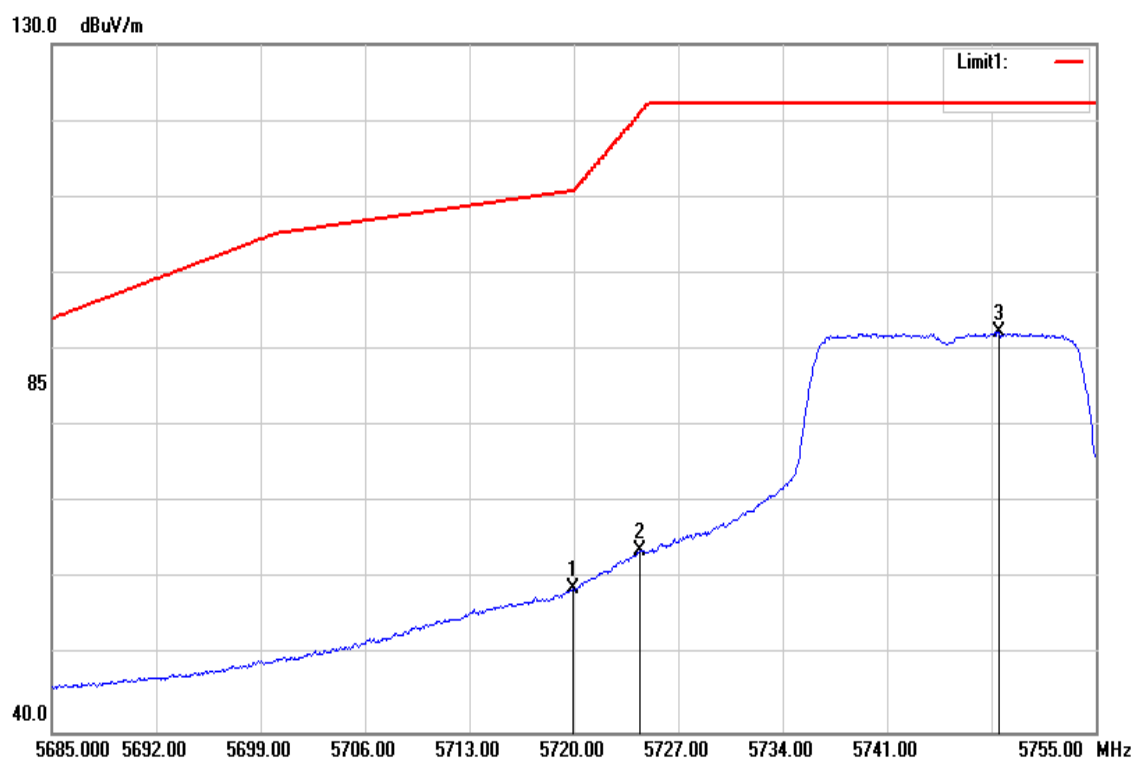
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5832.435	85.80	7.14	92.94	-	-	AVG
5850.310	50.81	7.16	57.97	121.49	-63.52	AVG
5854.930	48.54	7.16	55.70	110.96	-55.26	AVG

Test Mode	IEEE 802.11n HT20 Low CH	Temp/Hum	21.5(°C)/ 41%RH
Test Item	Band Edge	Test Date	November 7, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Peak		



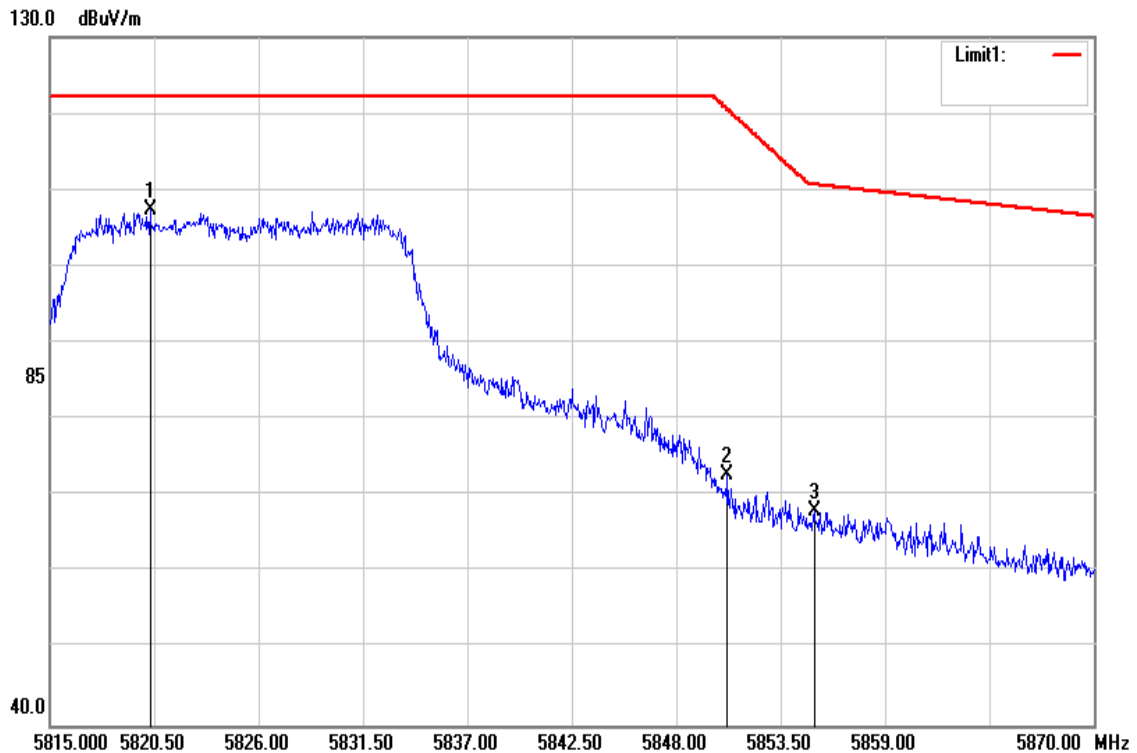
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5719.160	68.50	6.75	75.25	110.56	-35.31	peak
5724.060	72.92	6.77	79.69	120.06	-40.37	peak
5740.370	100.44	6.84	107.28	-	-	peak

Test Mode	IEEE 802.11n HT20 Low CH	Temperature	21.5(°C)/ 41%RH
Test Item	Band Edge	Test Date	November 7, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Average		



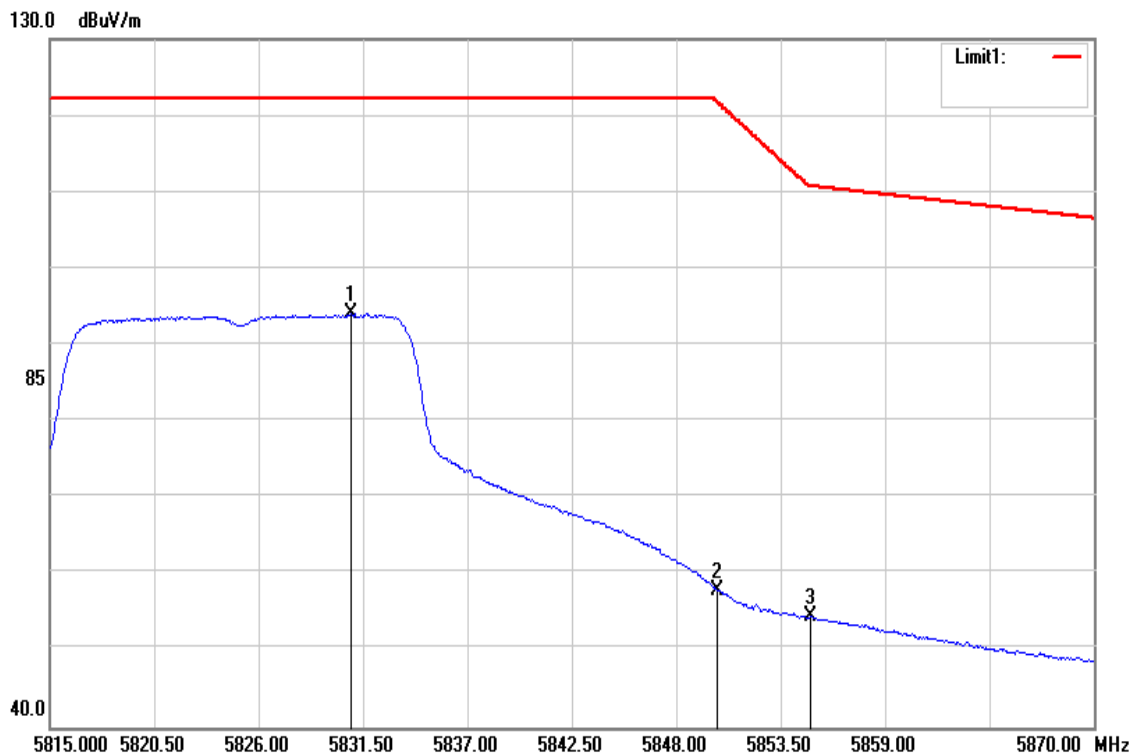
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5719.930	51.96	6.75	58.71	110.78	-52.07	AVG
5724.410	56.90	6.77	63.67	120.85	-57.18	AVG
5748.490	85.47	6.87	92.34	-	-	AVG

Test Mode	IEEE 802.11n HT20 High CH	Temp/Hum	21.5(°C)/ 41%RH
Test Item	Band Edge	Test Date	November 7, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Peak		



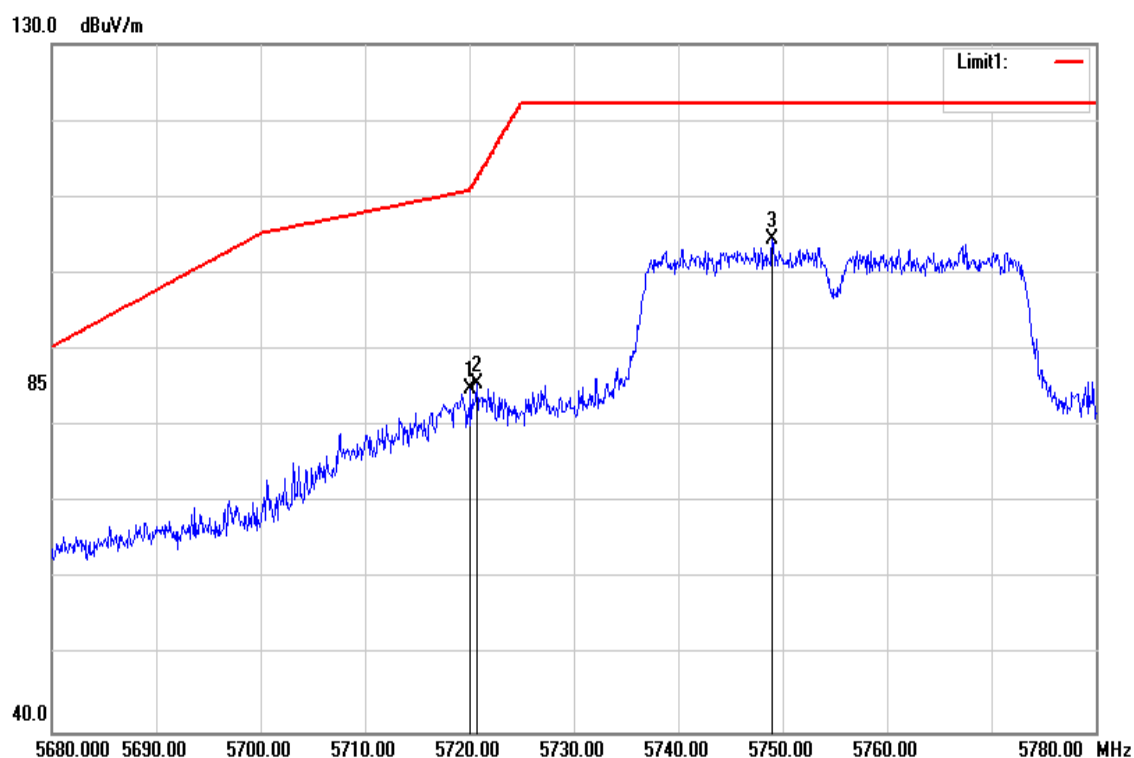
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5820.280	100.27	7.13	107.40	-	-	peak
5850.695	65.63	7.16	72.79	120.62	-47.83	peak
5855.260	60.81	7.16	67.97	110.73	-42.76	peak

Test Mode	IEEE 802.11n HT20 High CH	Temperature	21.5(°C)/ 41%RH
Test Item	Band Edge	Test Date	November 7, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Average		



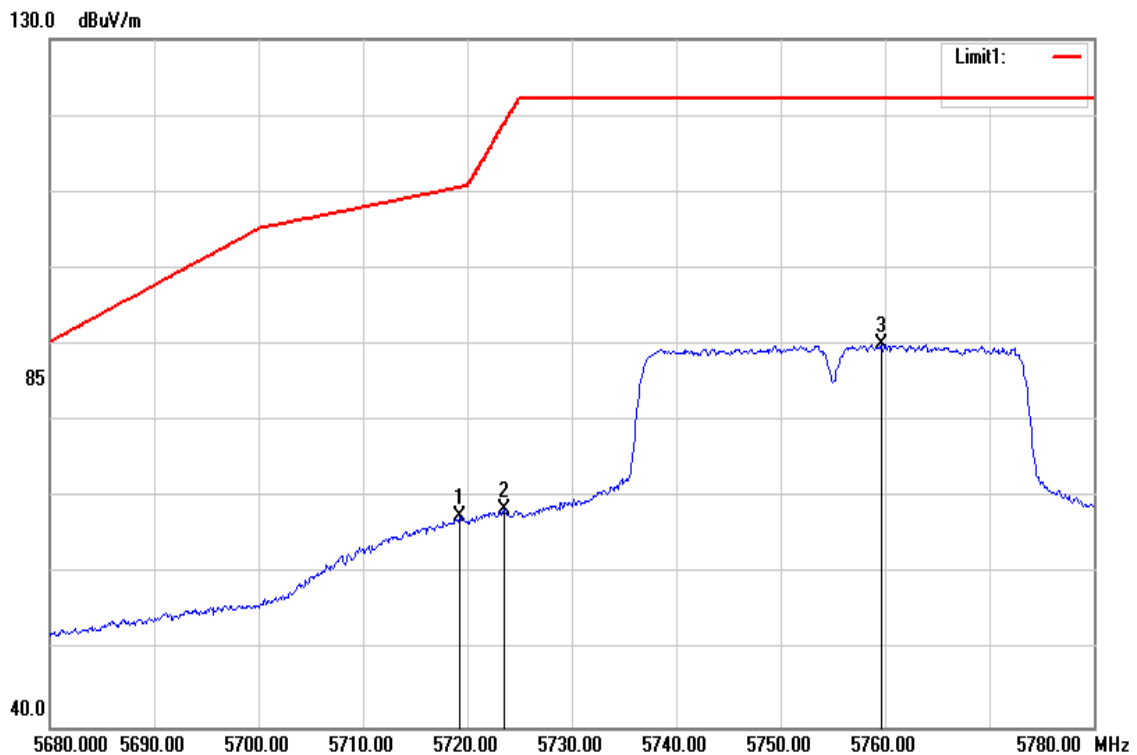
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5830.895	86.91	7.14	94.05	-	-	AVG
5850.145	50.81	7.16	57.97	121.87	-63.90	AVG
5855.040	47.34	7.16	54.50	110.79	-56.29	AVG

Test Mode	IEEE 802.11n HT40 Low CH	Temp/Hum	21.5(°C)/ 41%RH
Test Item	Band Edge	Test Date	November 7, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Peak		



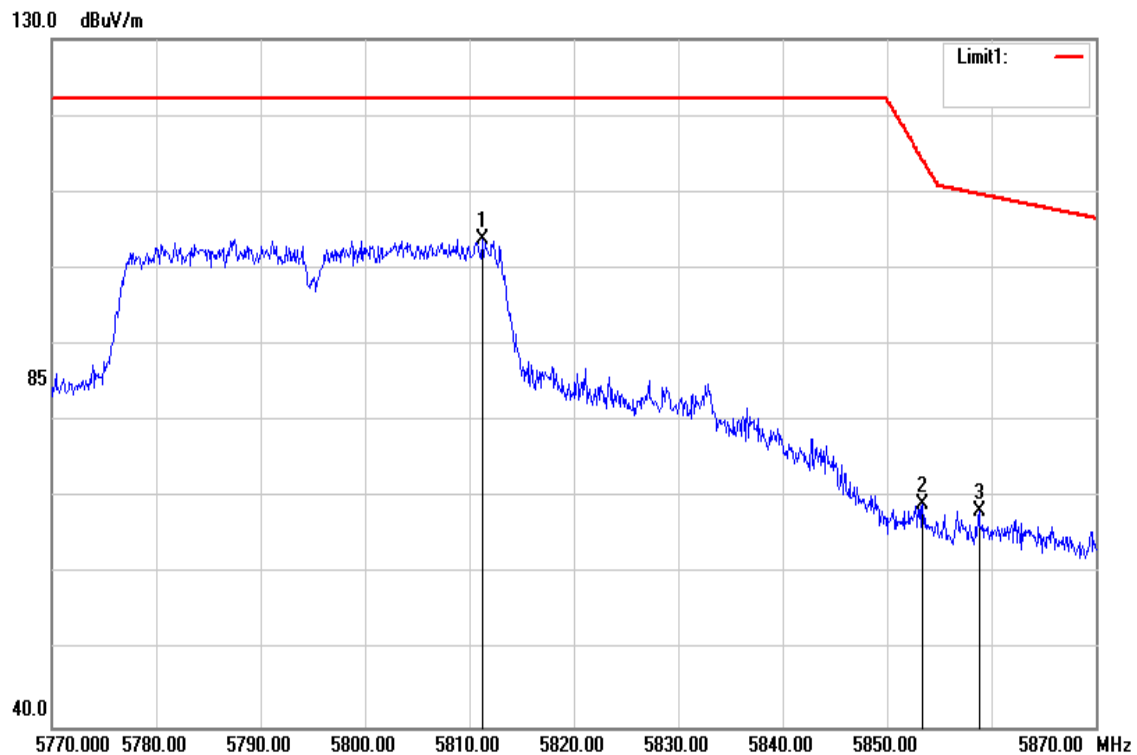
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5720.100	78.13	6.75	84.88	111.03	-26.15	peak
5720.700	78.83	6.74	85.57	112.40	-26.83	peak
5749.000	97.48	6.88	104.36	-	-	peak

Test Mode	IEEE 802.11n HT40 Low CH	Temperature	21.5(°C)/ 41%RH
Test Item	Band Edge	Test Date	November 7, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Average		



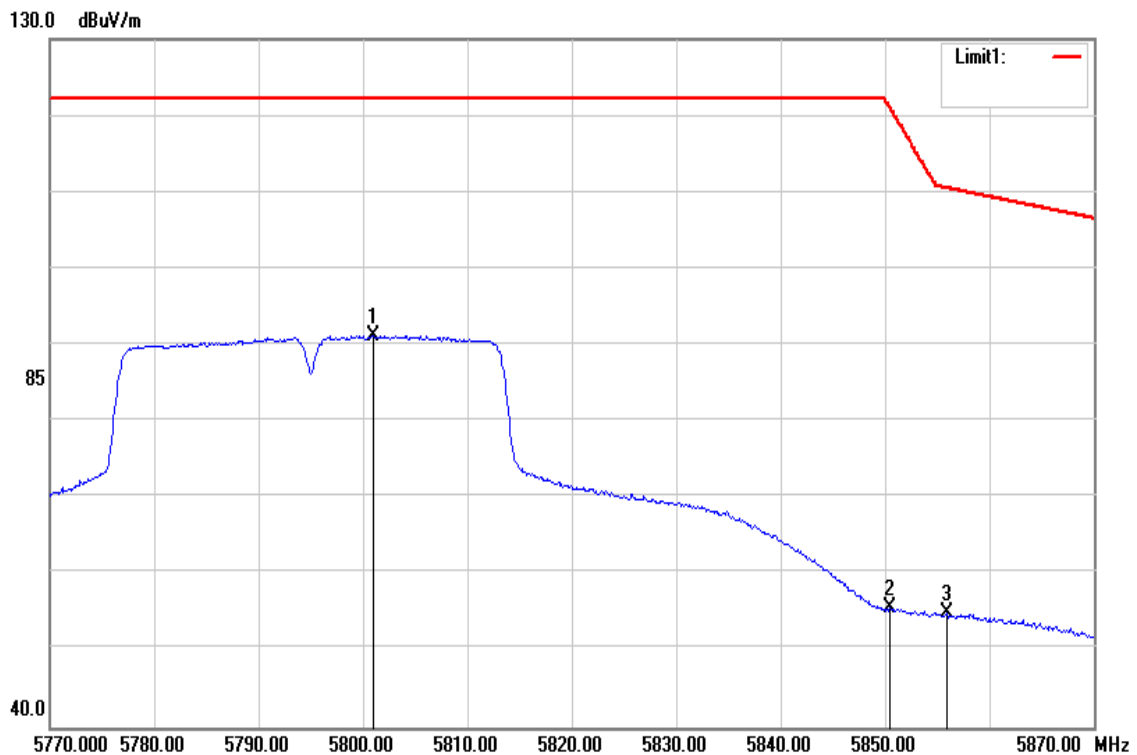
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5719.300	60.77	6.75	67.52	110.60	-43.08	AVG
5723.500	61.76	6.75	68.51	118.78	-50.27	AVG
5759.600	83.17	6.93	90.10	-	-	AVG

Test Mode	IEEE 802.11n HT40 High CH	Temp/Hum	21.5(°C)/ 41%RH
Test Item	Band Edge	Test Date	November 7, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Peak		



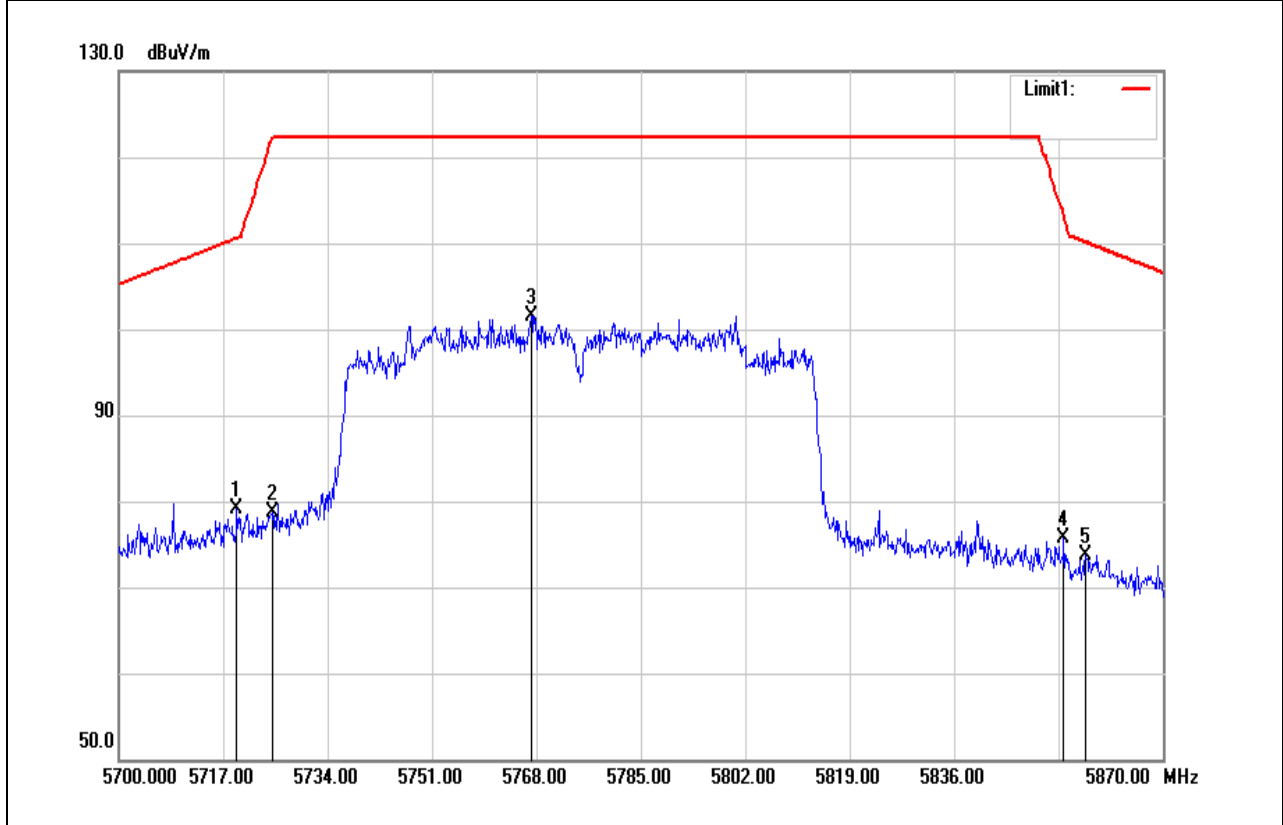
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5811.200	96.73	7.13	103.86	-	-	peak
5853.400	62.00	7.15	69.15	114.45	-45.30	peak
5858.800	61.17	7.16	68.33	109.74	-41.41	peak

Test Mode	IEEE 802.11n HT40 High CH	Temperature	21.5(°C)/ 41%RH
Test Item	Band Edge	Test Date	November 7, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Average		



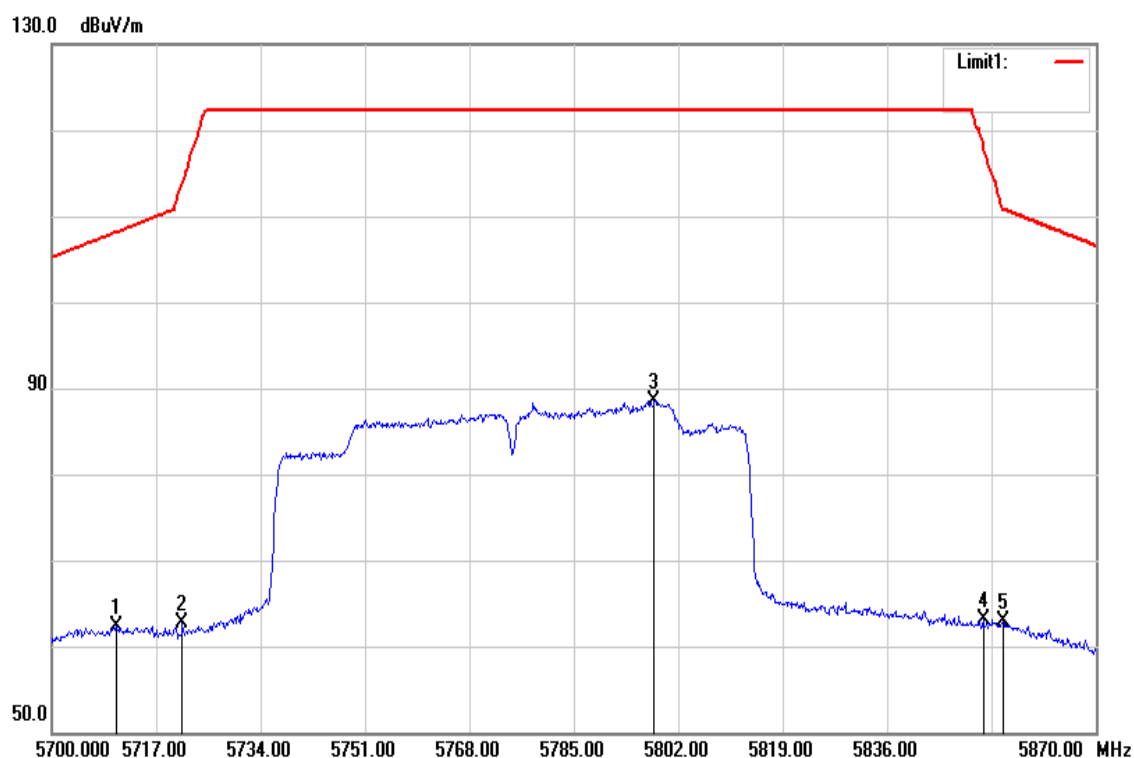
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5801.000	84.04	7.12	91.16	-	-	AVG
5850.400	48.50	7.16	55.66	121.29	-65.63	AVG
5855.900	47.85	7.16	55.01	110.55	-55.54	AVG

Test Mode	IEEE 802.11ac VHT80 5775MHz	Temp/Hum	21.5(°C)/ 41%RH
Test Item	Band Edge	Test Date	November 7, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Peak		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5719.210	72.39	6.75	79.14	110.58	-31.44	peak
5724.990	71.87	6.77	78.64	122.18	-43.54	peak
5767.150	94.55	6.97	101.52	-	-	peak
5853.850	68.51	7.15	75.66	113.42	-37.76	peak
5857.420	66.48	7.16	73.64	110.12	-36.48	peak

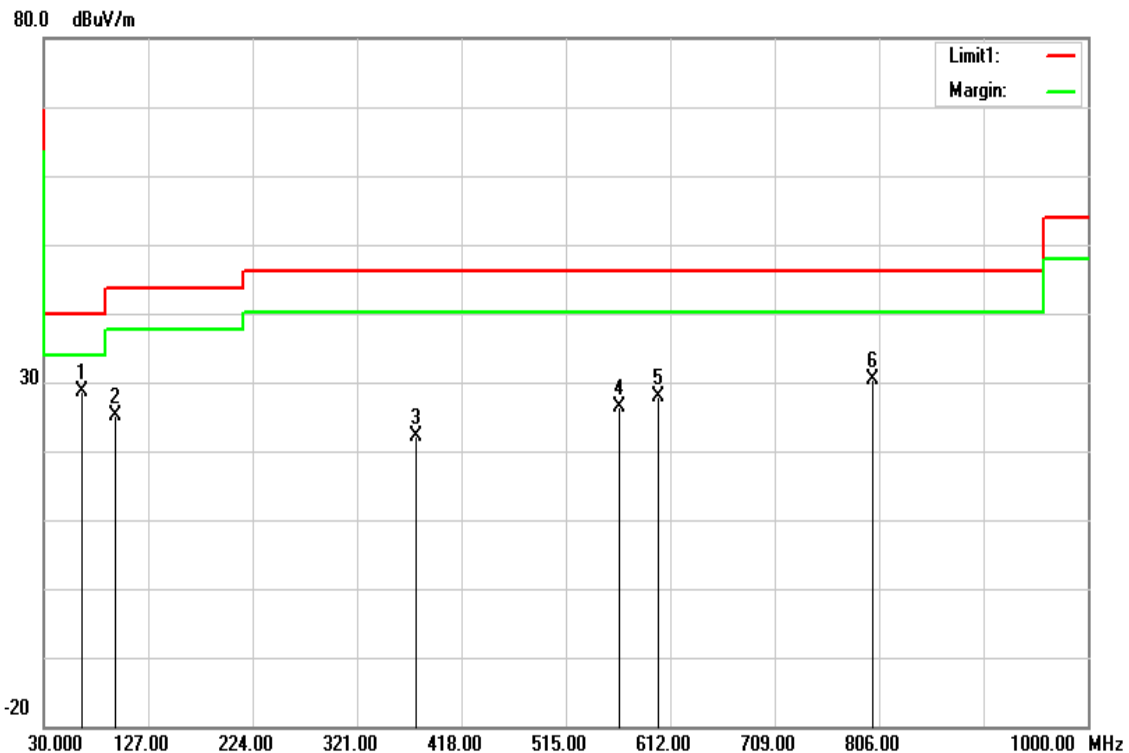
Test Mode	IEEE 802.11ac VHT80 5775MHz	Temperature	21.5(°C)/ 41%RH
Test Item	Band Edge	Test Date	November 7, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Average		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5710.540	55.68	6.69	62.37	108.15	-45.78	AVG
5721.250	55.86	6.74	62.60	113.65	-51.05	AVG
5798.090	81.48	7.11	88.59	-	-	AVG
5851.640	55.95	7.15	63.10	118.46	-55.36	AVG
5854.870	55.78	7.16	62.94	111.10	-48.16	AVG

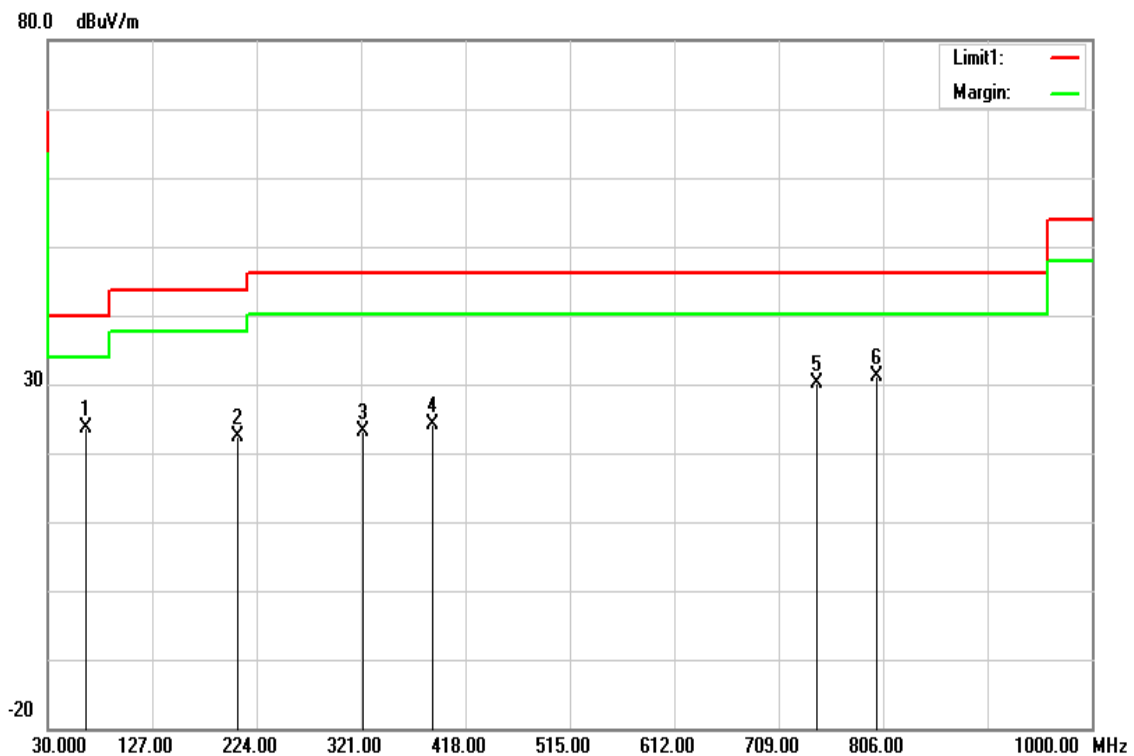
Below 1G Test Data

Test Mode	Mode 1	Temp/Hum	20.9(°C)/ 43%RH
Test Item	30MHz-1GHz	Test Date	November 6, 2018
Polarize	Vertical	Test Engineer	Jerry Chuang
Detector	Peak		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
64.9200	43.48	-14.78	28.70	40.00	-11.30	peak
95.9600	38.17	-13.11	25.06	43.52	-18.46	peak
376.2900	27.75	-5.57	22.18	46.02	-23.84	peak
564.4700	27.60	-1.18	26.42	46.02	-19.60	peak
600.3600	28.66	-0.79	27.87	46.02	-18.15	peak
800.1800	27.41	3.04	30.45	46.02	-15.57	peak

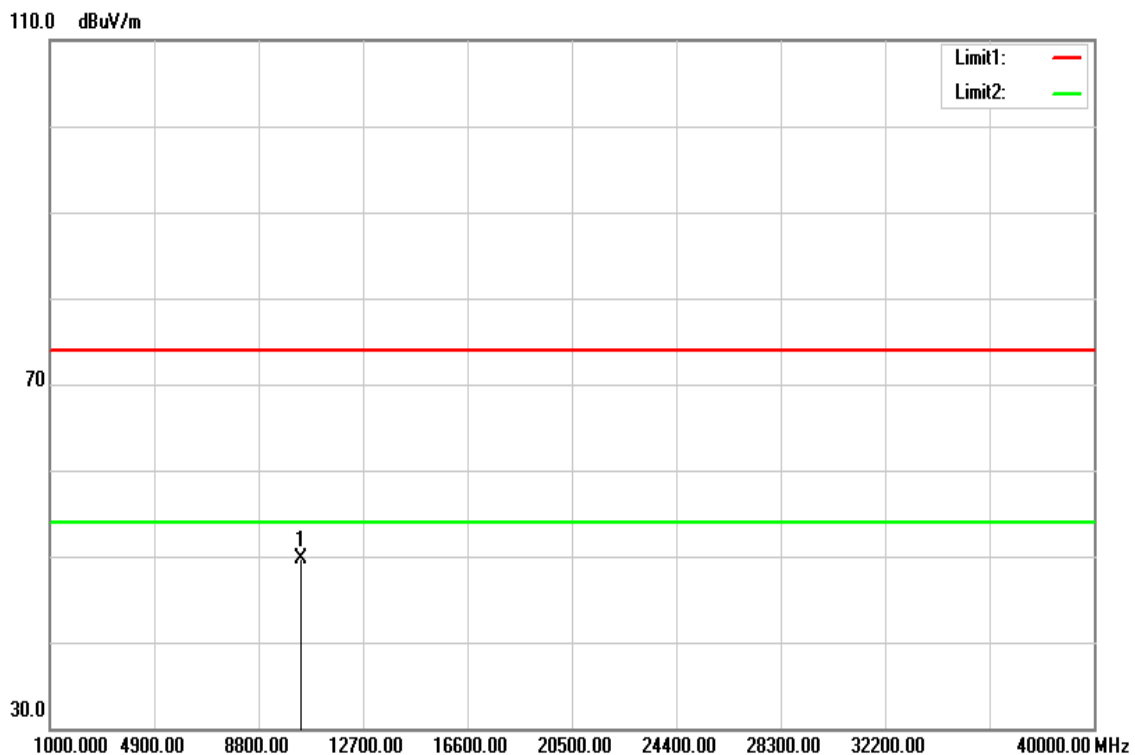
Test Mode	Mode 1	Temp/Hum	20.9(°C)/ 43%RH
Test Item	30MHz-1GHz	Test Date	November 6, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Peak		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
64.9200	38.34	-14.78	23.56	40.00	-16.44	peak
206.5400	31.86	-9.39	22.47	43.52	-21.05	peak
322.9400	30.11	-6.86	23.25	46.02	-22.77	peak
386.9600	29.32	-5.27	24.05	46.02	-21.97	peak
744.8900	28.09	1.97	30.06	46.02	-15.96	peak
800.1800	28.00	3.04	31.04	46.02	-14.98	peak

Above 1G Test Data for UNII-1

Test Mode	IEEE 802.11a Low CH	Temp/Hum	22.3(°C)/ 46%RH
Test Item	Harmonic	Test Date	November 9, 2018
Polarize	Vertical	Test Engineer	Jerry Chuang
Detector	Peak		

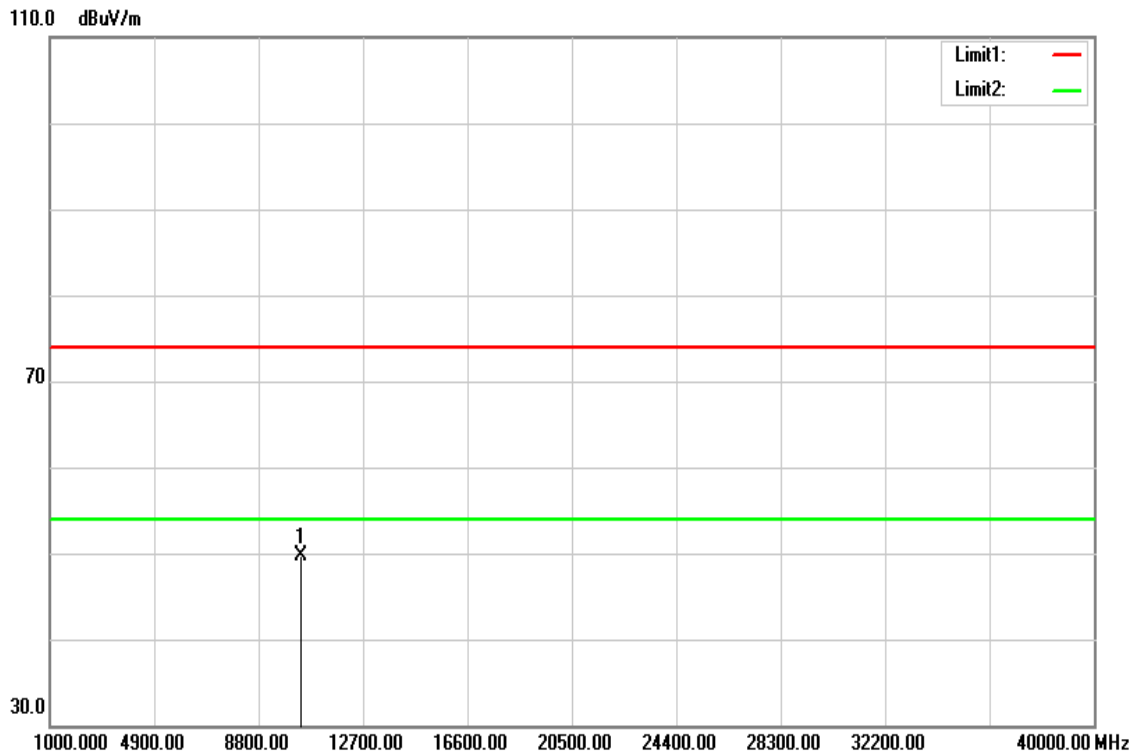


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
10360.000	35.05	14.75	49.80	74.00	-24.20	peak
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11a Low CH	Temp/Hum	22.3(°C)/ 46%RH
Test Item	Harmonic	Test Date	November 9, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Peak		

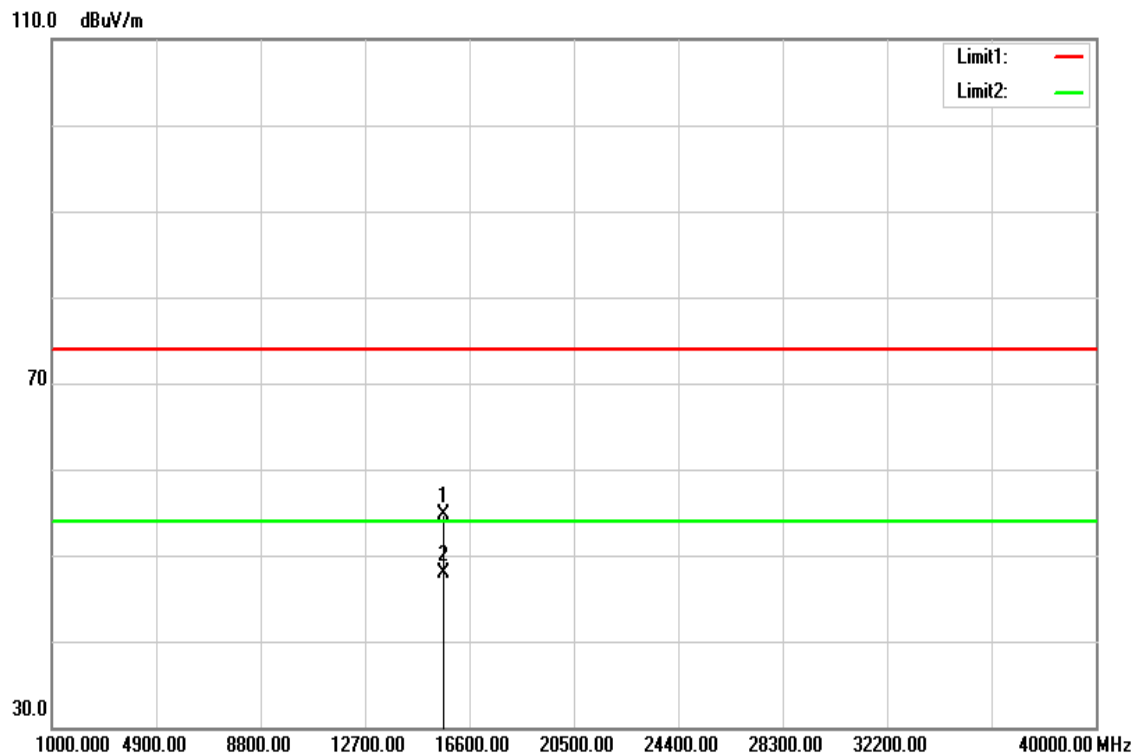


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
10360.000	34.89	14.75	49.64	74.00	-24.36	peak
N/A						

Remark:

- Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11a Mid CH	Temp/Hum	22.3(°C)/ 46%RH
Test Item	Harmonic	Test Date	November 9, 2018
Polarize	Vertical	Test Engineer	Jerry Chuang
Detector	Peak and Average		

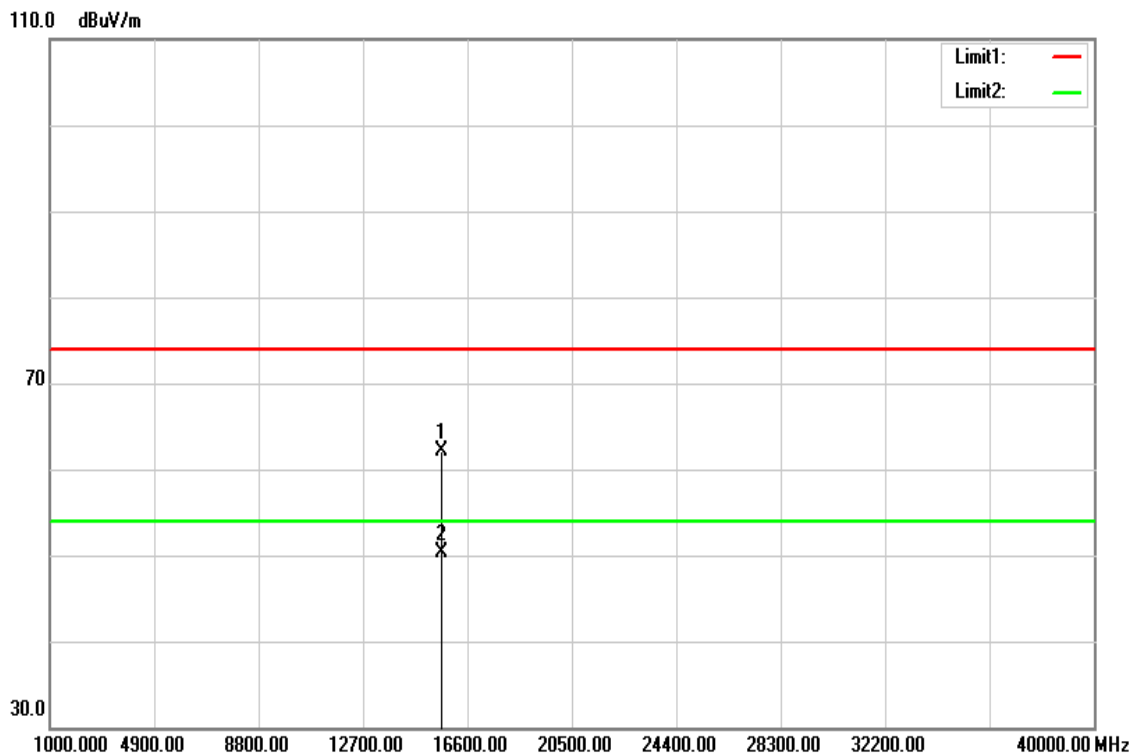


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
15660.000	36.78	18.00	54.78	74.00	-19.22	peak
15660.000	29.86	18.00	47.86	54.00	-6.14	AVG
N/A						

Remark:

- Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11a Mid CH	Temp/Hum	22.3(°C)/ 46%RH
Test Item	Harmonic	Test Date	November 9, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Peak and Average		

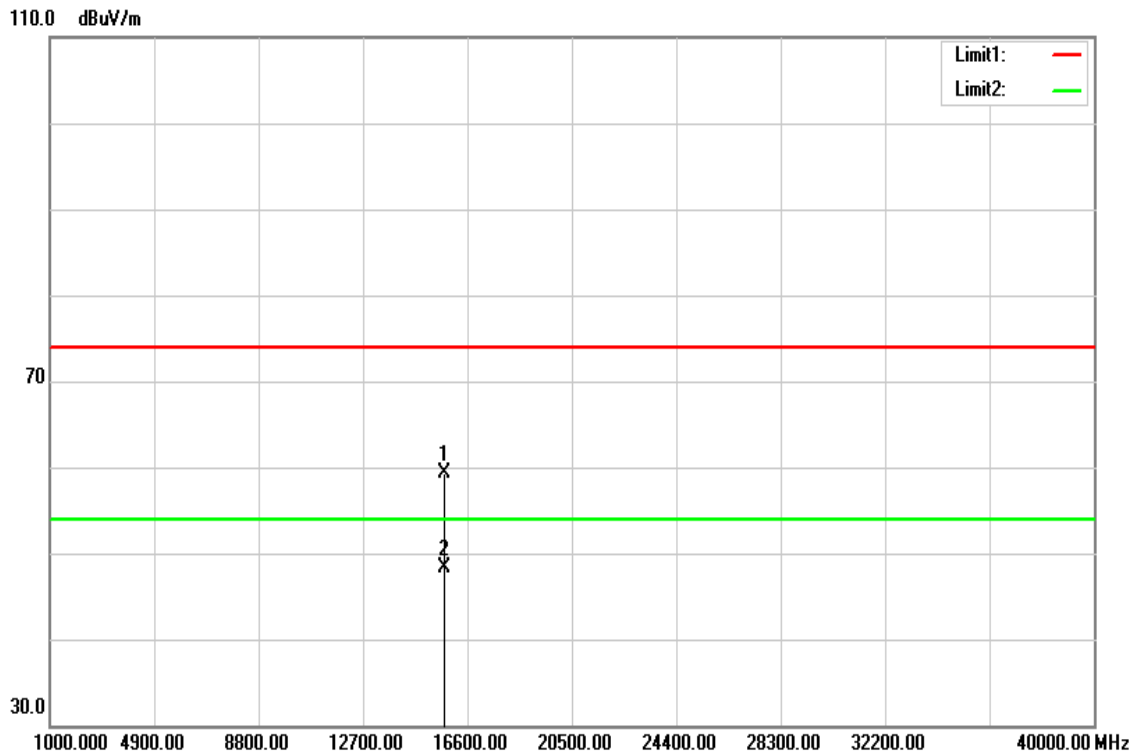


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
15660.000	44.12	18.00	62.12	74.00	-11.88	peak
15660.000	32.34	18.00	50.34	54.00	-3.66	AVG
N/A						

Remark:

- Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11a High CH	Temp/Hum	22.3(°C)/ 46%RH
Test Item	Harmonic	Test Date	November 9, 2018
Polarize	Vertical	Test Engineer	Jerry Chuang
Detector	Peak and Average		

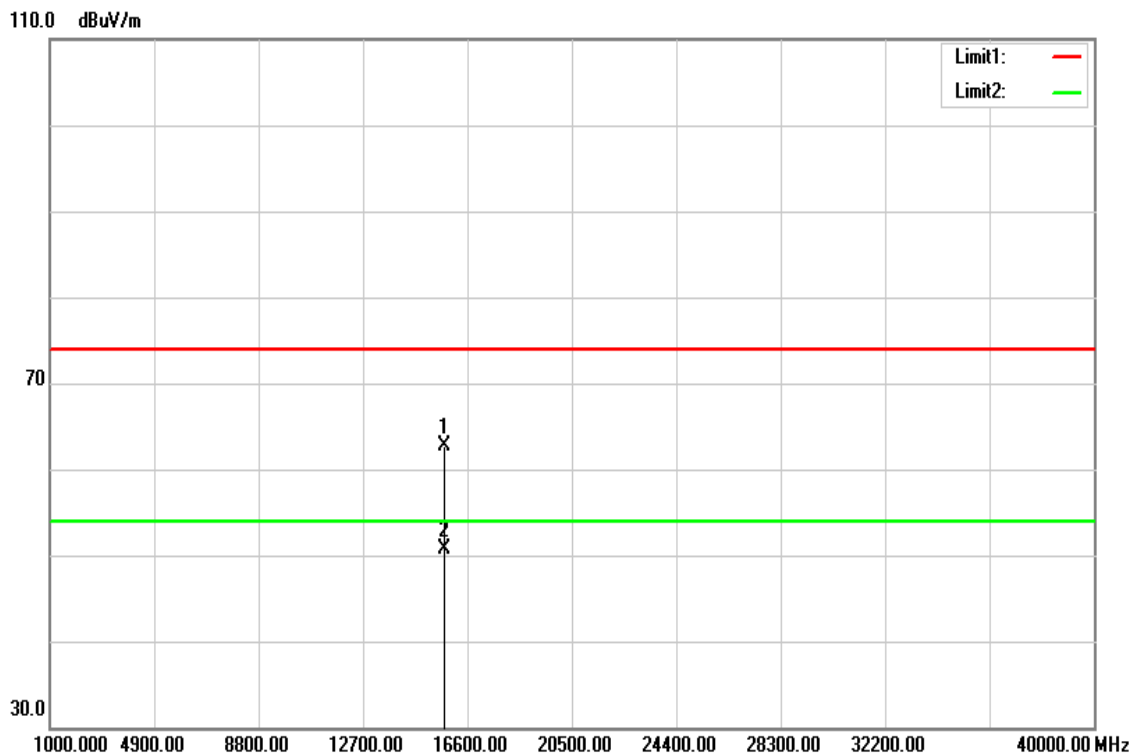


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
15720.000	41.01	18.33	59.34	74.00	-14.66	peak
15720.000	29.92	18.33	48.25	54.00	-5.75	AVG
N/A						

Remark:

- Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11a High CH	Temp/Hum	22.3(°C)/ 46%RH
Test Item	Harmonic	Test Date	November 9, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Peak and Average		

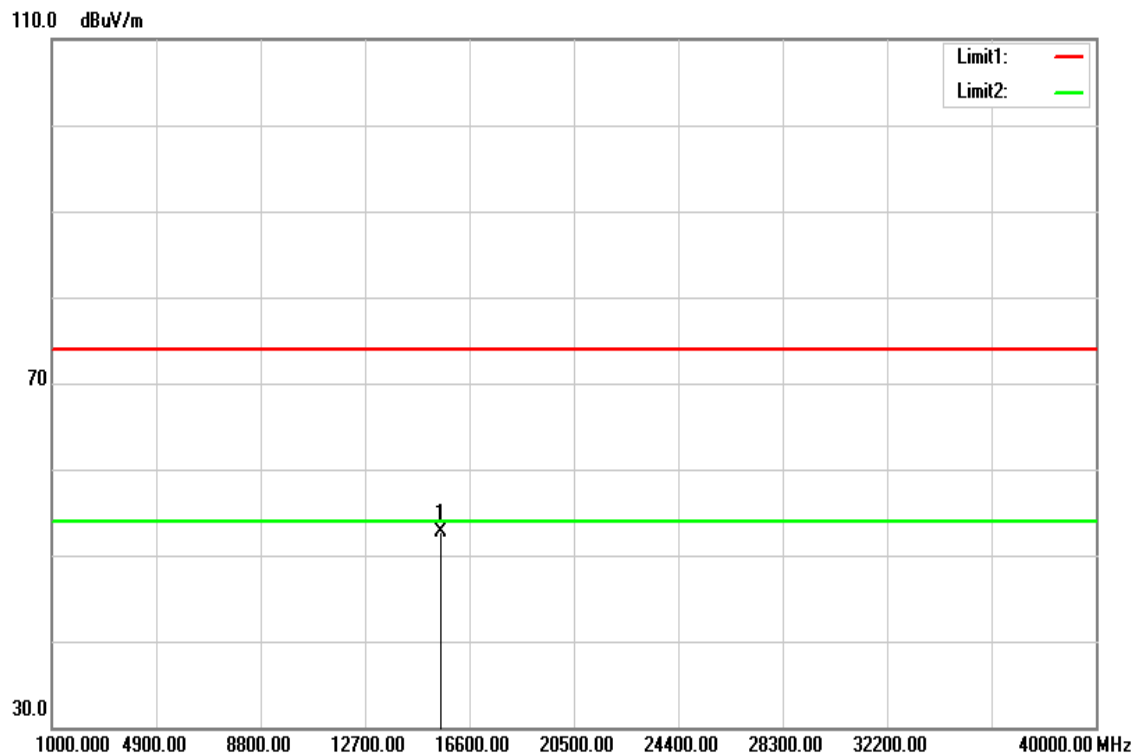


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
15730.000	44.36	18.39	62.75	74.00	-11.25	peak
15730.000	32.30	18.39	50.69	54.00	-3.31	AVG
N/A						

Remark:

- Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11n HT20 Low CH	Temp/Hum	22.3(°C)/ 46%RH
Test Item	Harmonic	Test Date	November 9, 2018
Polarize	Vertical	Test Engineer	Jerry Chuang
Detector	Peak		

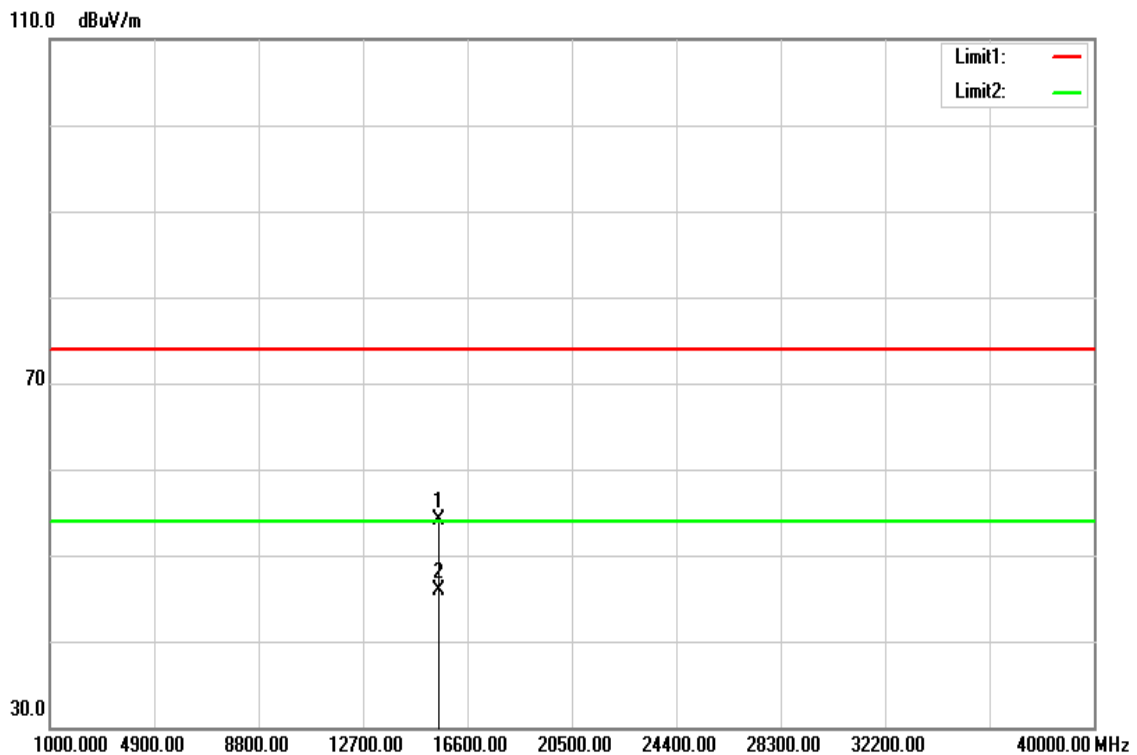


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
15540.000	34.86	17.80	52.66	74.00	-21.34	peak
N/A						

Remark:

- Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT20 Low CH	Temp/Hum	22.3(°C)/ 46%RH
Test Item	Harmonic	Test Date	November 9, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Peak and Average		

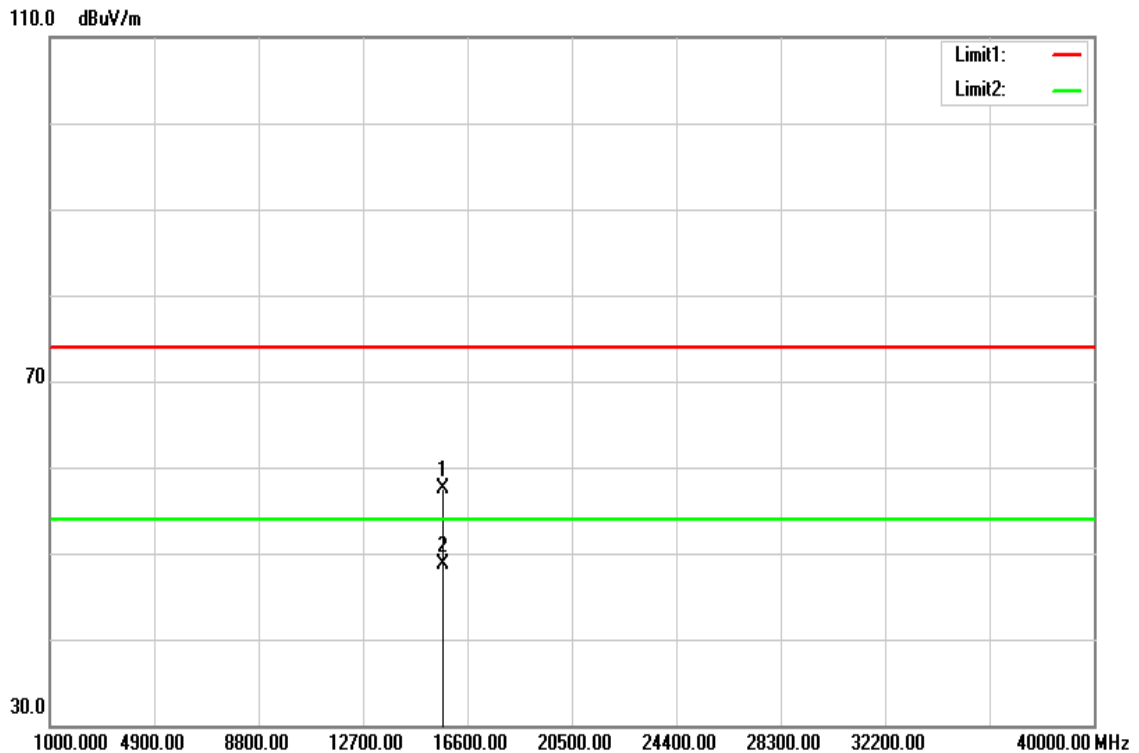


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
15550.000	36.32	17.78	54.10	74.00	-19.90	peak
15550.000	28.05	17.78	45.83	54.00	-8.17	AVG
N/A						

Remark:

- Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11n HT20 Mid CH	Temp/Hum	22.3(°C)/ 46%RH
Test Item	Harmonic	Test Date	November 9, 2018
Polarize	Vertical	Test Engineer	Jerry Chuang
Detector	Peak and Average		

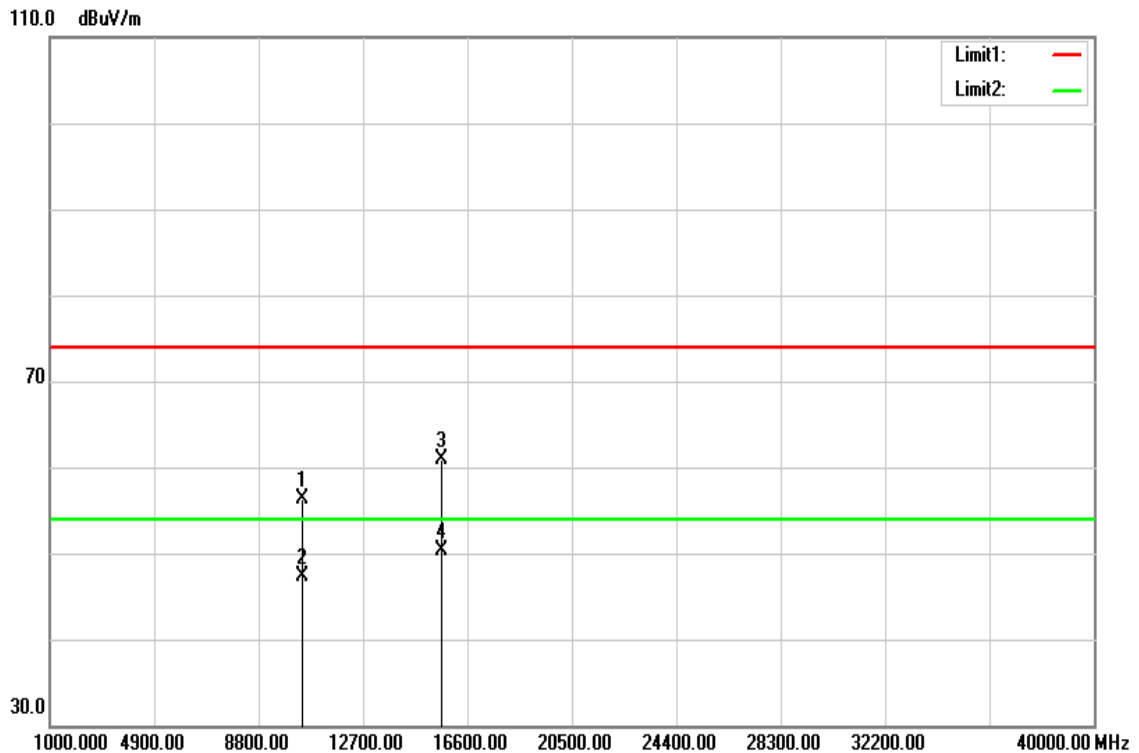


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
15670.000	39.50	18.05	57.55	74.00	-16.45	peak
15670.000	30.66	18.05	48.71	54.00	-5.29	AVG
N/A						

Remark:

- Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11n HT20 Mid CH	Temp/Hum	22.3(°C)/ 46%RH
Test Item	Harmonic	Test Date	November 9, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Peak and Average		

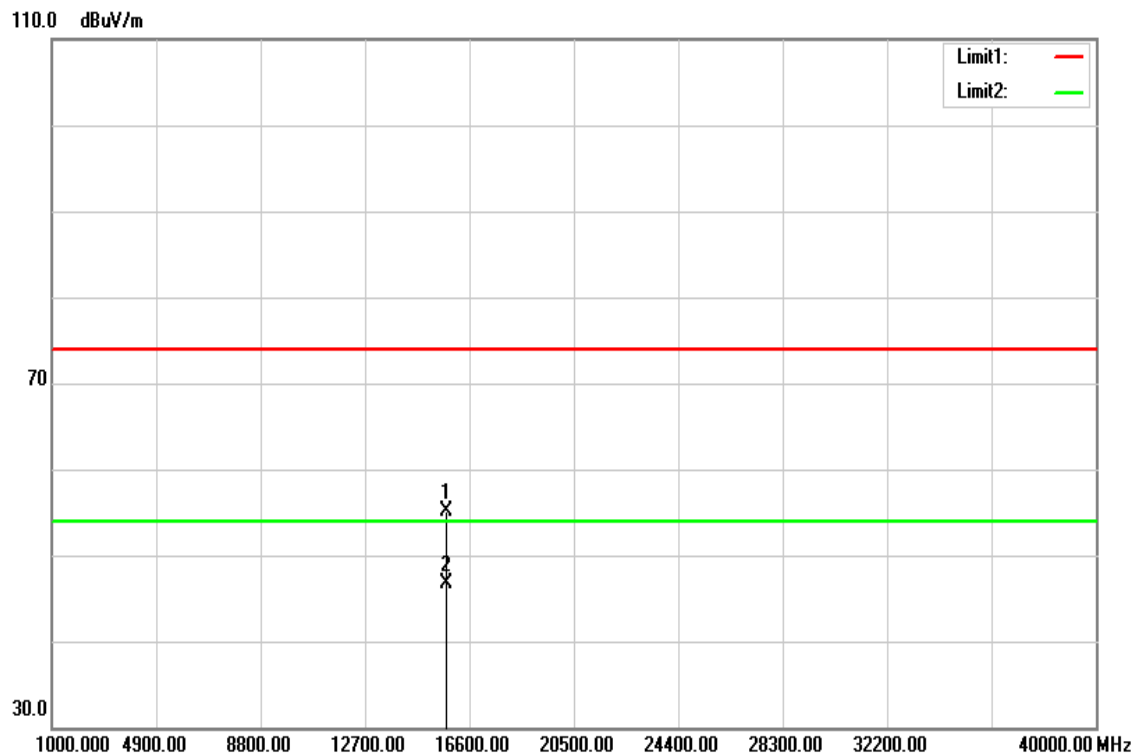


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
10440.000	41.24	15.00	56.24	74.00	-17.76	peak
10440.000	32.28	15.00	47.28	54.00	-6.72	AVG
15660.000	42.97	18.00	60.97	74.00	-13.03	peak
15660.000	32.31	18.00	50.31	54.00	-3.69	AVG
N/A						

Remark:

- Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11n HT20 High CH	Temp/Hum	22.3(°C)/ 46%RH
Test Item	Harmonic	Test Date	November 9, 2018
Polarize	Vertical	Test Engineer	Jerry Chuang
Detector	Peak and Average		

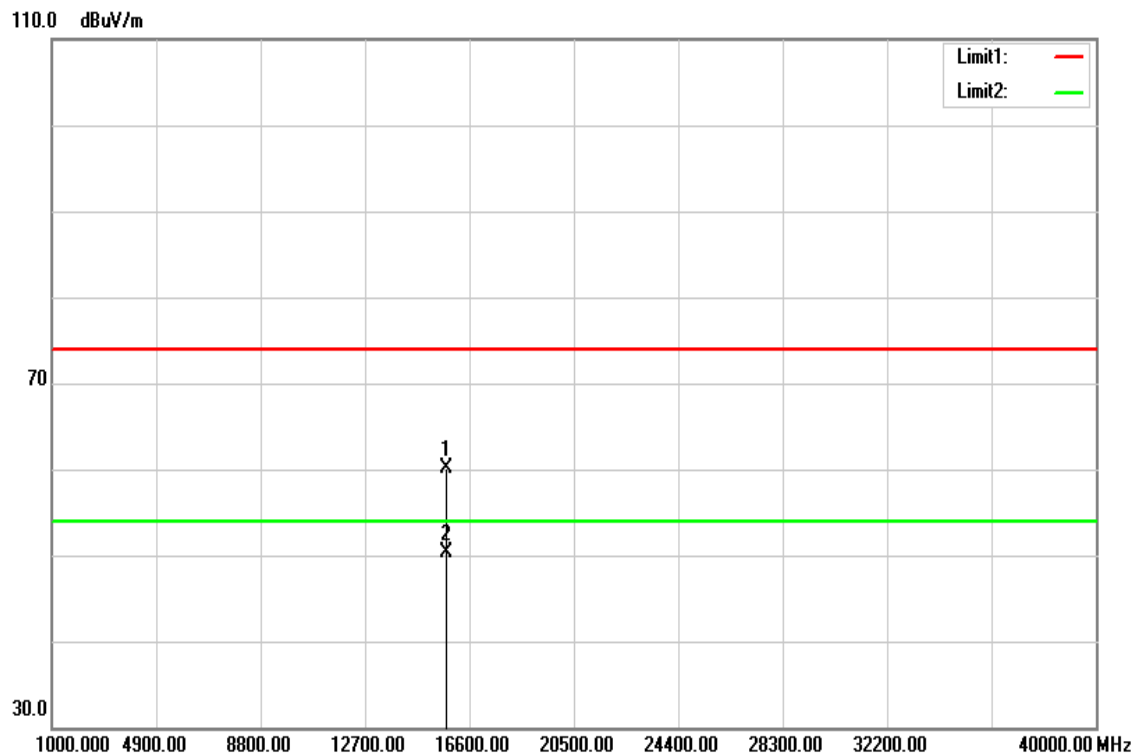


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
15720.000	36.85	18.33	55.18	74.00	-18.82	peak
15720.000	28.45	18.33	46.78	54.00	-7.22	AVG
N/A						

Remark:

- Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11n HT20 High CH	Temp/Hum	22.3(°C)/ 46%RH
Test Item	Harmonic	Test Date	November 9, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Peak and Average		

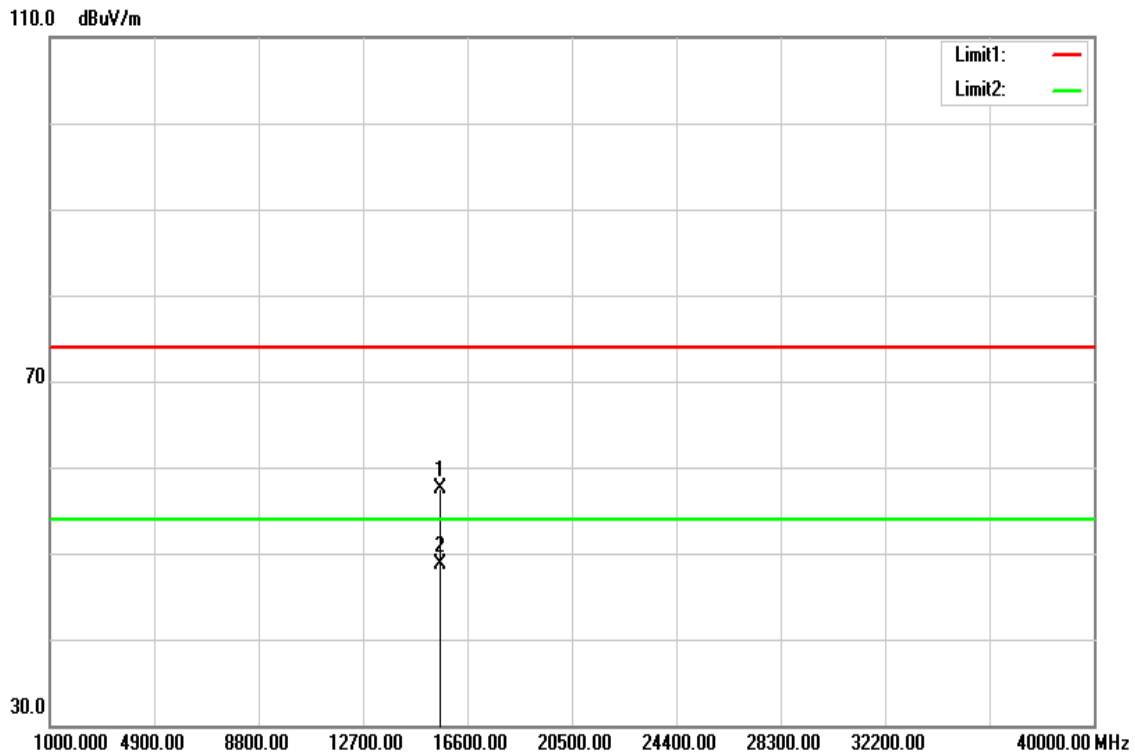


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
15720.000	41.74	18.33	60.07	74.00	-13.93	peak
15720.000	31.93	18.33	50.26	54.00	-3.74	AVG
N/A						

Remark:

- Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11n HT40 Low CH	Temp/Hum	22.3(°C)/ 46%RH
Test Item	Harmonic	Test Date	November 9, 2018
Polarize	Vertical	Test Engineer	Jerry Chuang
Detector	Peak and Average		

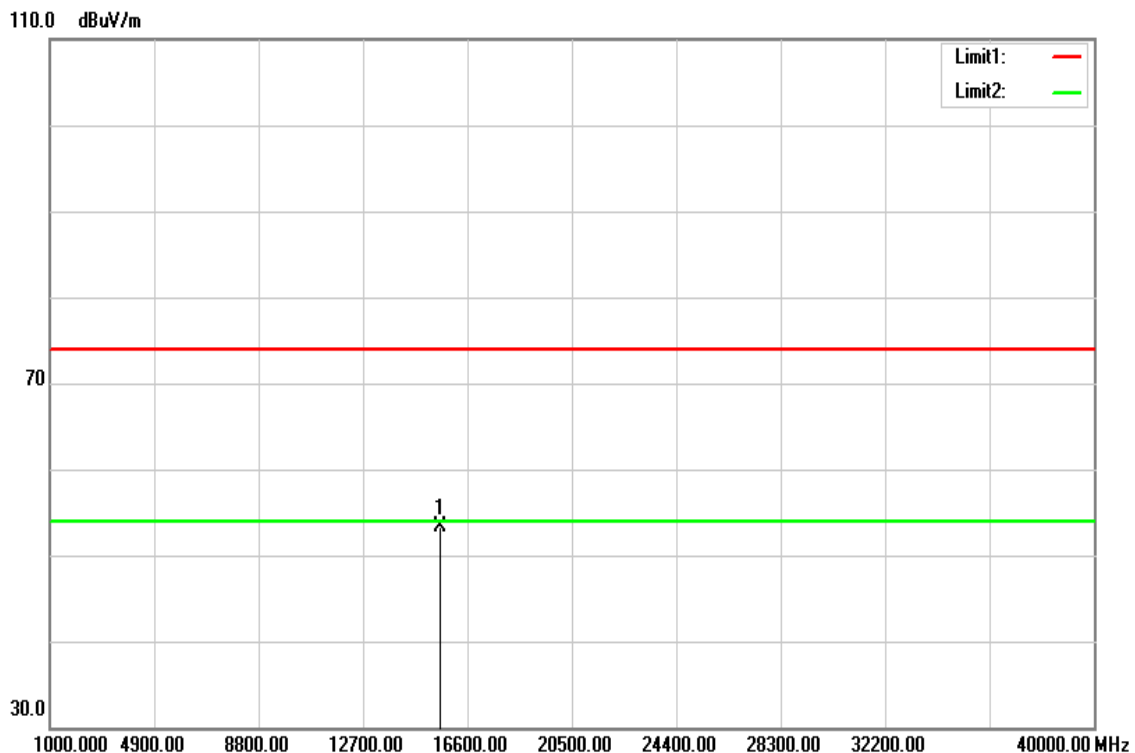


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
15580.000	39.78	17.72	57.50	74.00	-16.50	peak
15580.000	30.93	17.72	48.65	54.00	-5.35	AVG
N/A						

Remark:

- Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11n HT40 Low CH	Temp/Hum	22.3(°C)/ 46%RH
Test Item	Harmonic	Test Date	November 9, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Peak		

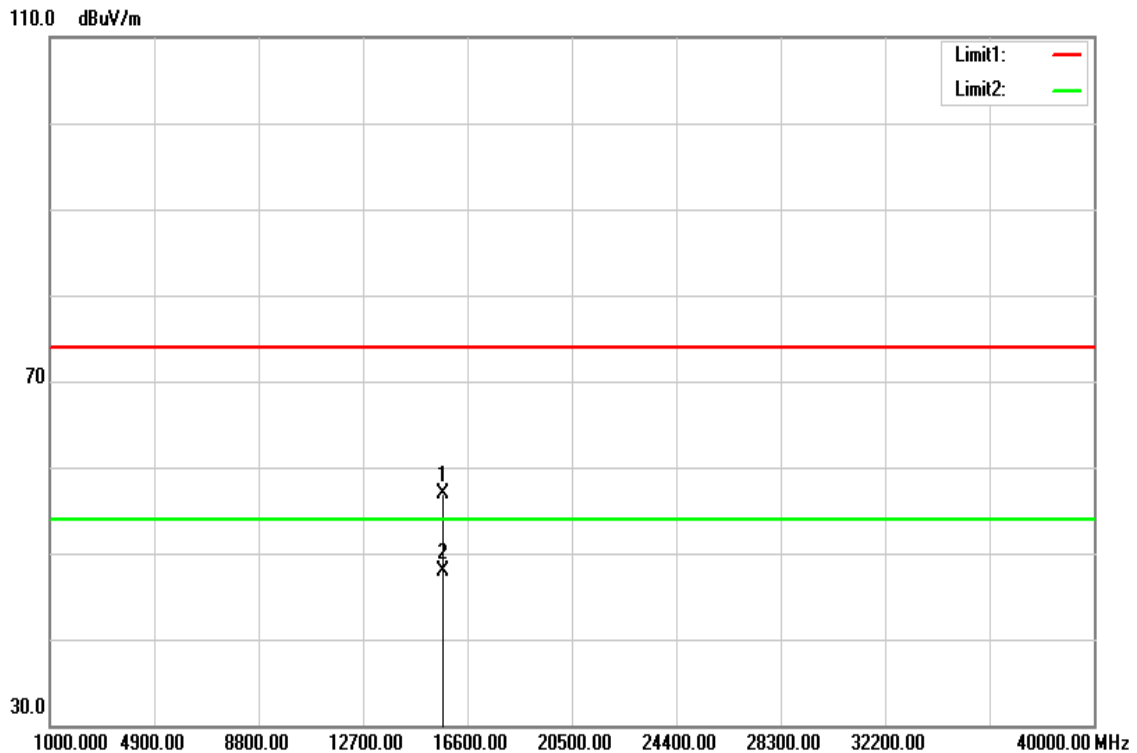


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
15570.000	35.65	17.74	53.39	74.00	-20.61	peak
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT40 High CH	Temp/Hum	22.3(°C)/ 46%RH
Test Item	Harmonic	Test Date	November 7, 2018
Polarize	Vertical	Test Engineer	Jerry Chuang
Detector	Peak and Average		

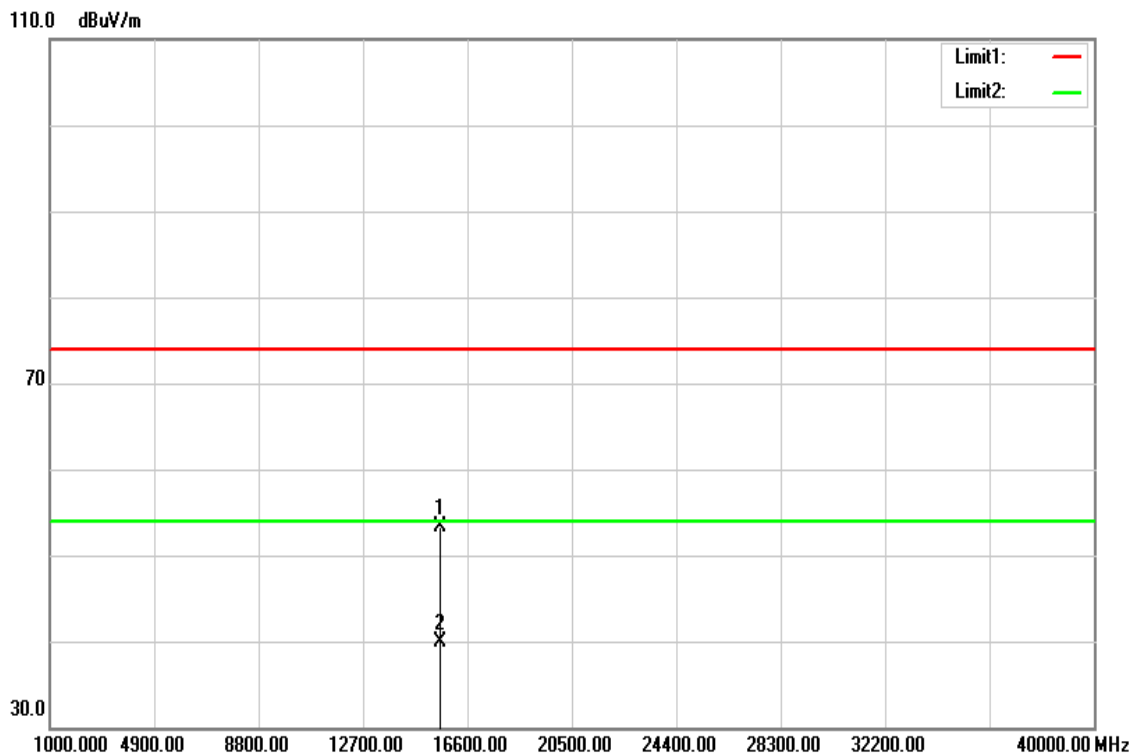


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
15710.000	38.71	18.28	56.99	74.00	-17.01	peak
15710.000	29.62	18.28	47.90	54.00	-6.10	AVG
N/A						

Remark:

- Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11n HT40 High CH	Temp/Hum	22.3(°C)/ 46%RH
Test Item	Harmonic	Test Date	November 9, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Peak and Average		

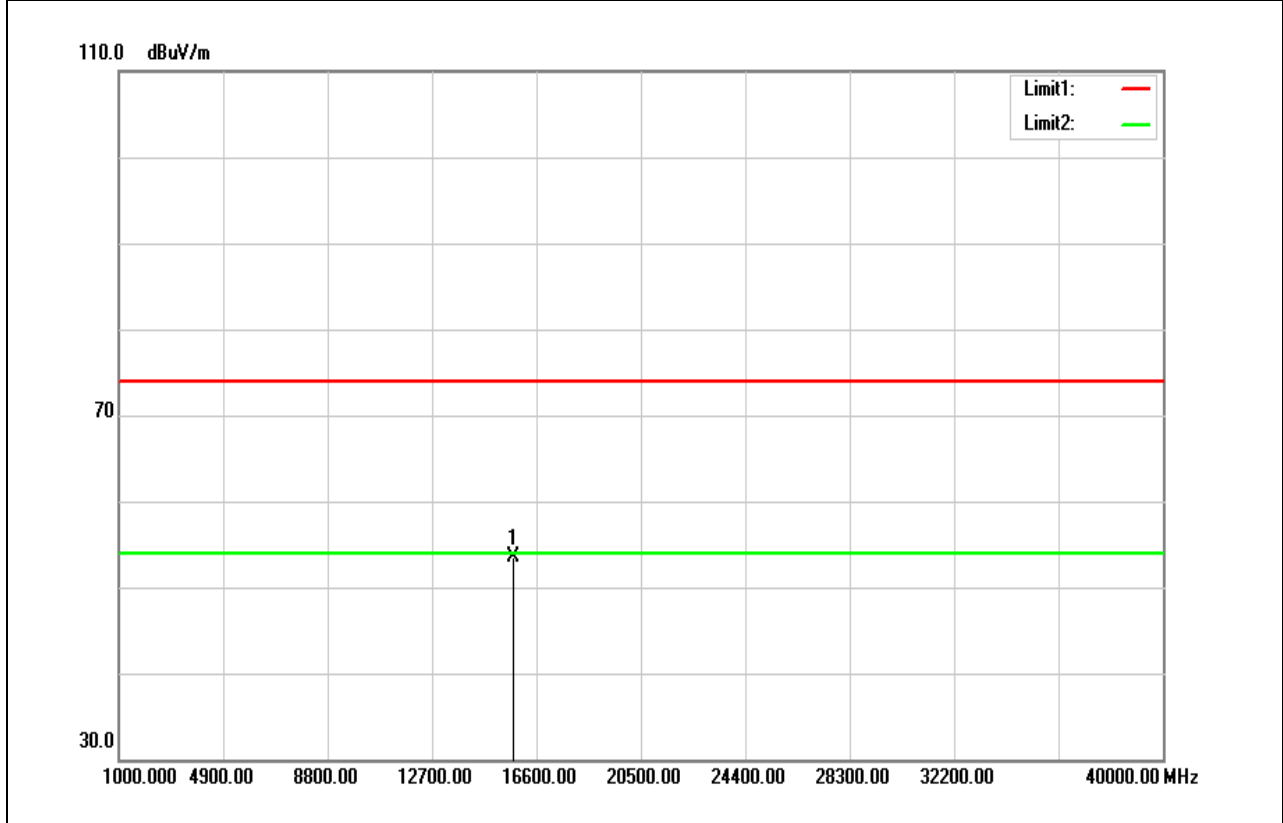


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
15690.000	36.99	18.16	55.15	74.00	-18.85	peak
15690.000	27.92	18.16	46.08	54.00	-7.92	AVG
N/A						

Remark:

- Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11ac VHT80 5210MHz	Temp/Hum	22.3(°C)/ 46%RH
Test Item	Harmonic	Test Date	November 9, 2018
Polarize	Vertical	Test Engineer	Jerry Chuang
Detector	Peak		

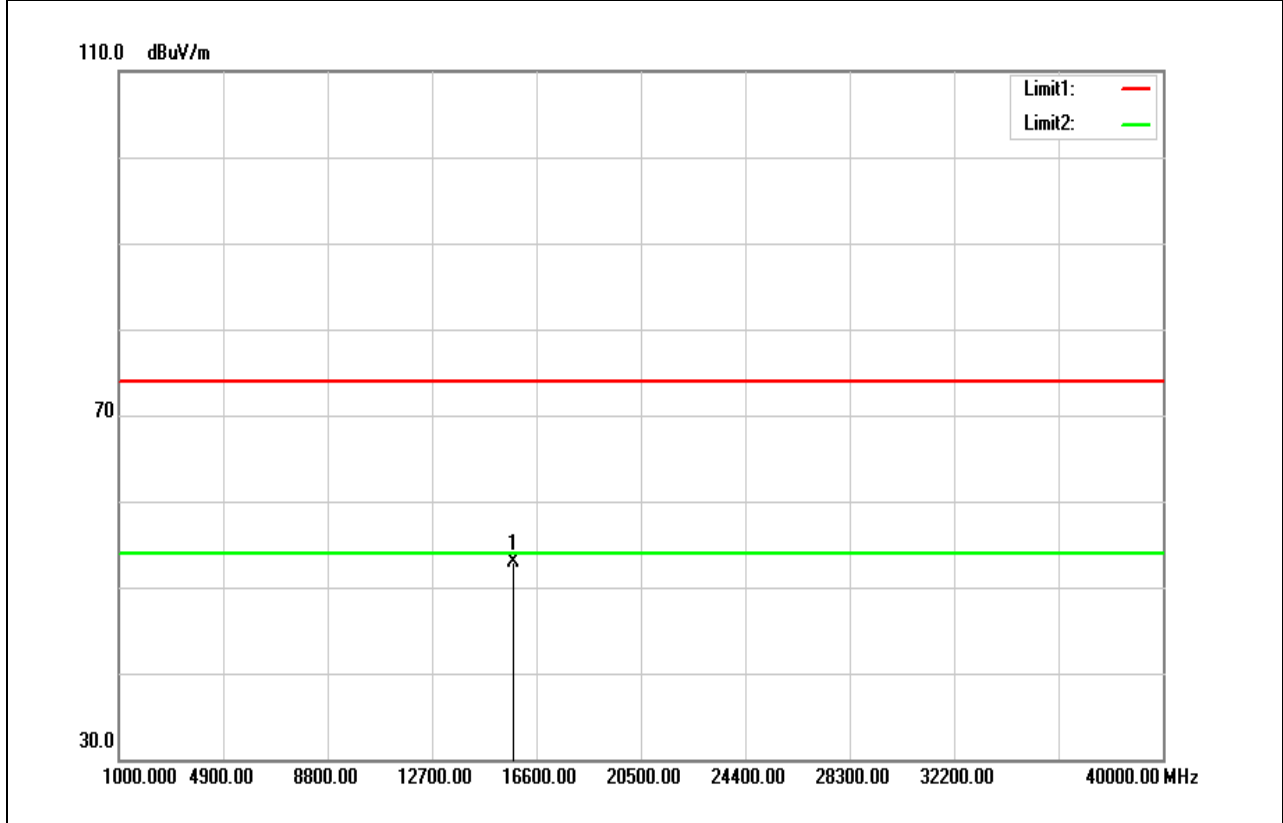


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
15720.000	35.16	18.33	53.49	74.00	-20.51	peak
N/A						

Remark:

- Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11ac VHT80 5210MHz	Temp/Hum	22.3(°C)/ 46%RH
Test Item	Harmonic	Test Date	November 9, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Peak		



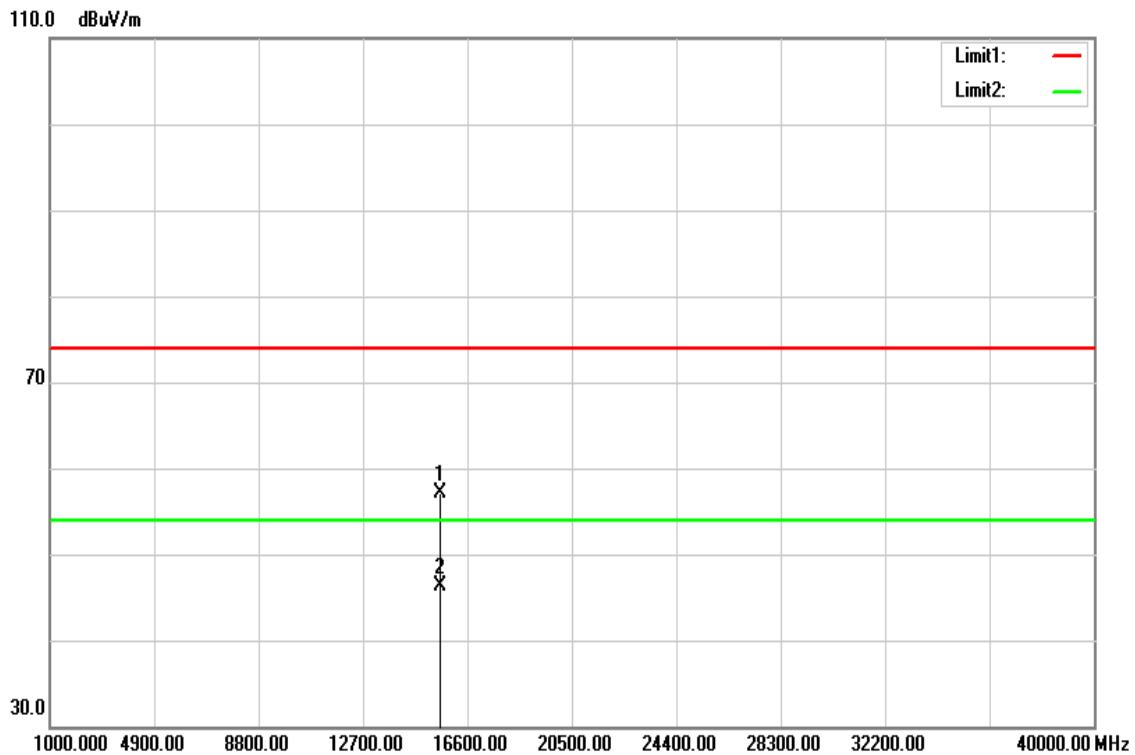
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
15720.000	34.64	18.33	52.97	74.00	-21.03	peak
N/A						

Remark:

- Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Above 1G Test Data for UNII-2a

Test Mode	IEEE 802.11a Low CH	Temp/Hum	22.3(°C)/ 46%RH
Test Item	Harmonic	Test Date	November 9, 2018
Polarize	Vertical	Test Engineer	Jerry Chuang
Detector	Peak and Average		

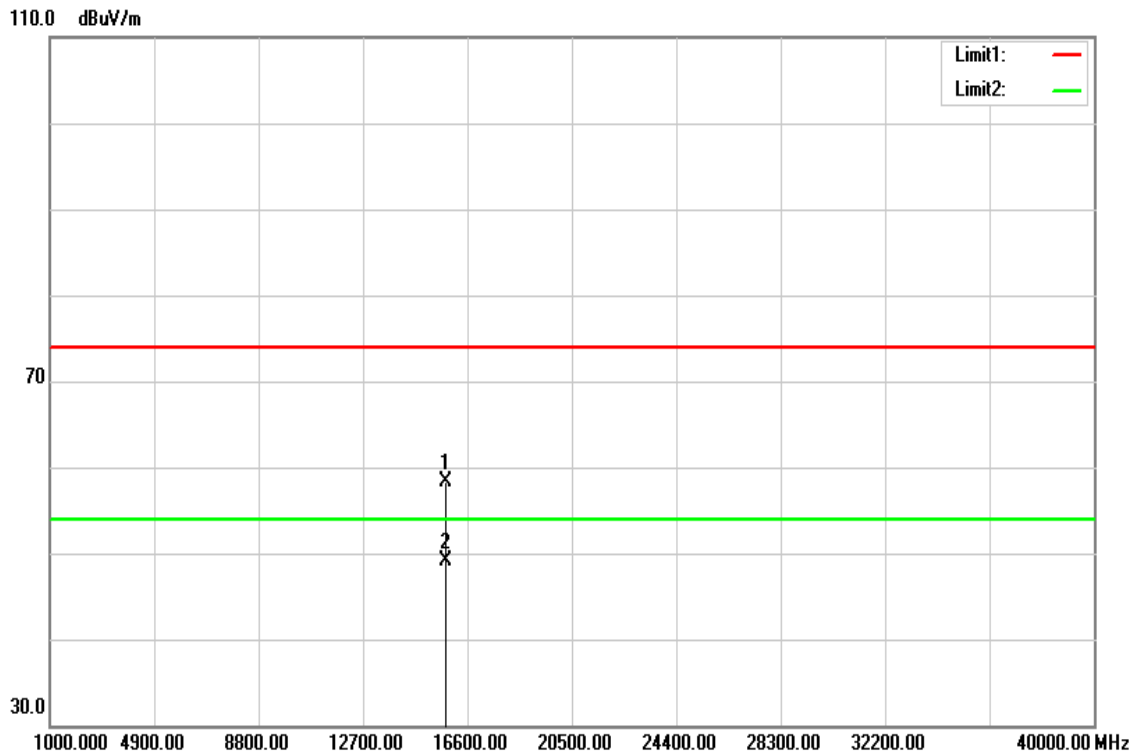


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
15570.000	39.46	17.74	57.20	74.00	-16.80	peak
15570.000	28.61	17.74	46.35	54.00	-7.65	AVG
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11a Low CH	Temp/Hum	22.3(°C)/ 46%RH
Test Item	Harmonic	Test Date	November 9, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Peak and Average		

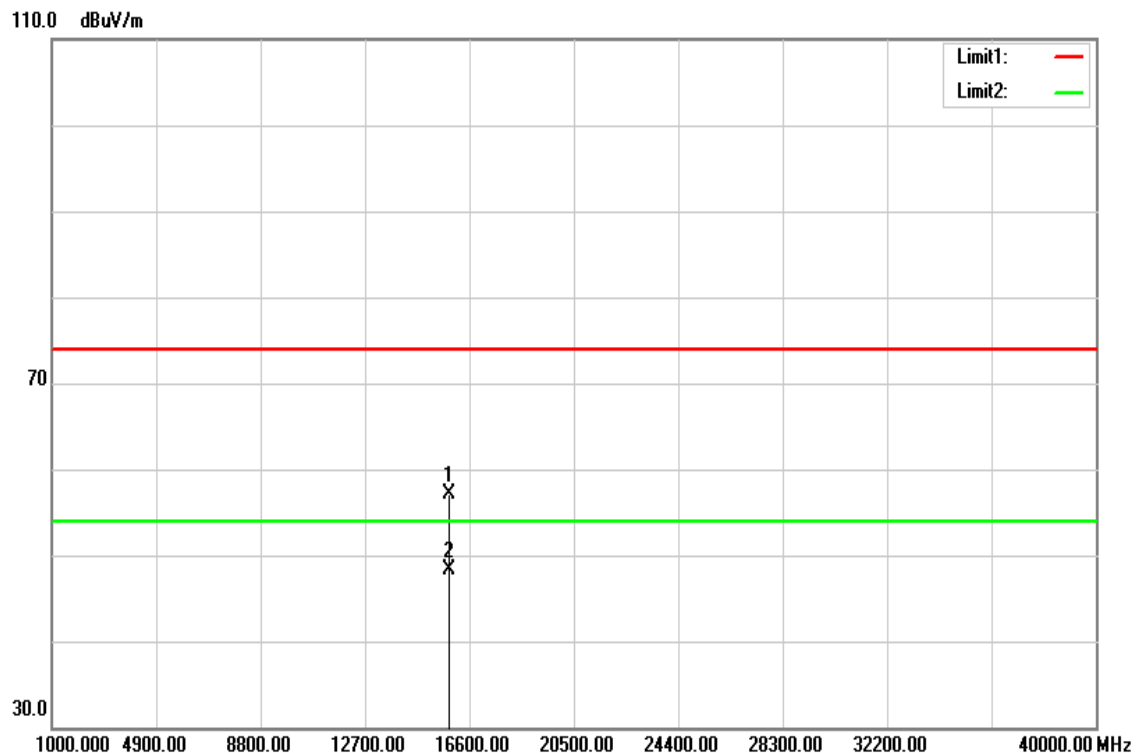


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
15780.000	39.57	18.66	58.23	74.00	-15.77	peak
15780.000	30.51	18.66	49.17	54.00	-4.83	AVG
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11a Mid CH	Temp/Hum	22.3(°C)/ 46%RH
Test Item	Harmonic	Test Date	November 9, 2018
Polarize	Vertical	Test Engineer	Jerry Chuang
Detector	Peak and Average		

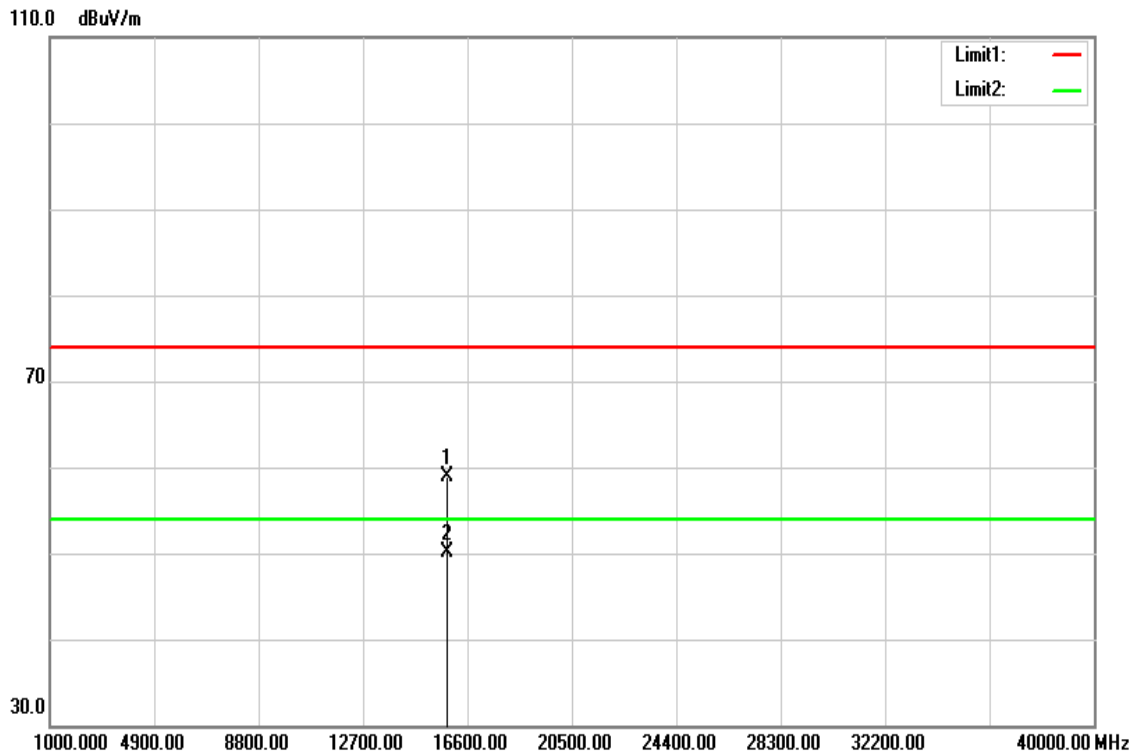


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Rem rk
15840.000	38.36	18.83	57.19	74.00	-16.81	peak
15840.000	29.53	18.83	48.36	54.00	-5.64	AVG
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11a Mid CH	Temp/Hum	22.3(°C)/ 46%RH
Test Item	Harmonic	Test Date	November 9, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Peak and Average		

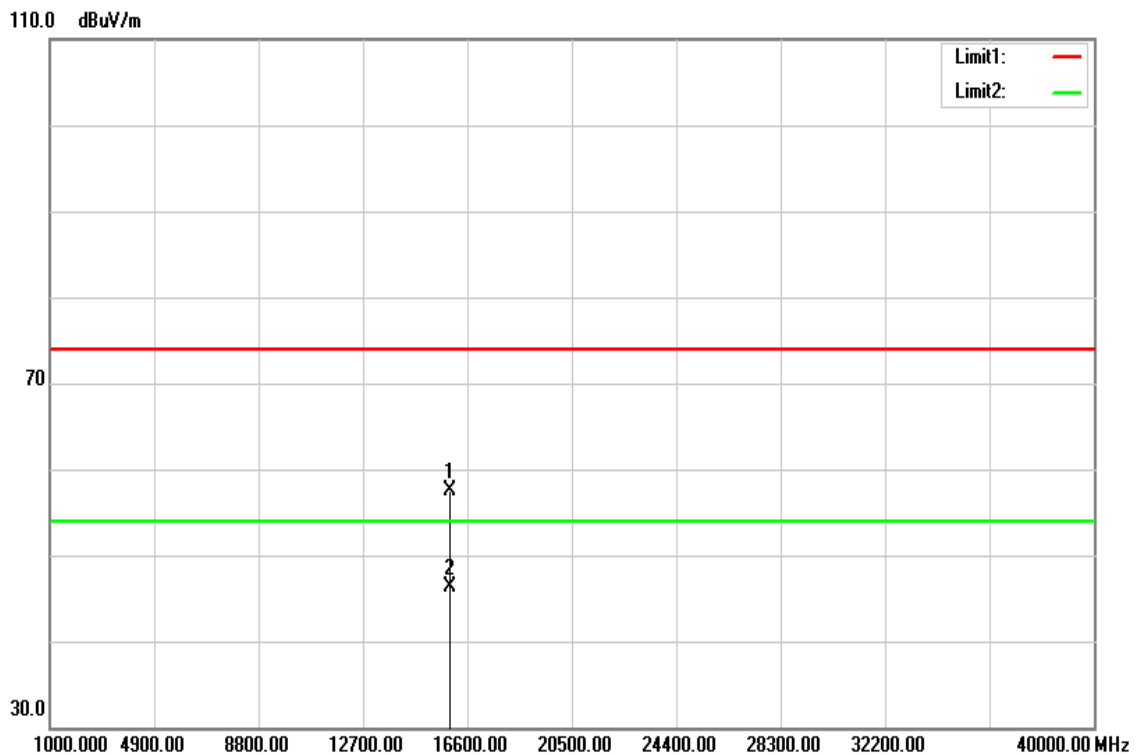


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
15840.000	40.05	18.83	58.88	74.00	-15.12	peak
15840.000	31.28	18.83	50.11	54.00	-3.89	AVG
N/A						

Remark:

- Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11a High CH	Temp/Hum	22.3(°C)/ 46%RH
Test Item	Harmonic	Test Date	November 9, 2018
Polarize	Vertical	Test Engineer	Jerry Chuang
Detector	Peak and Average		

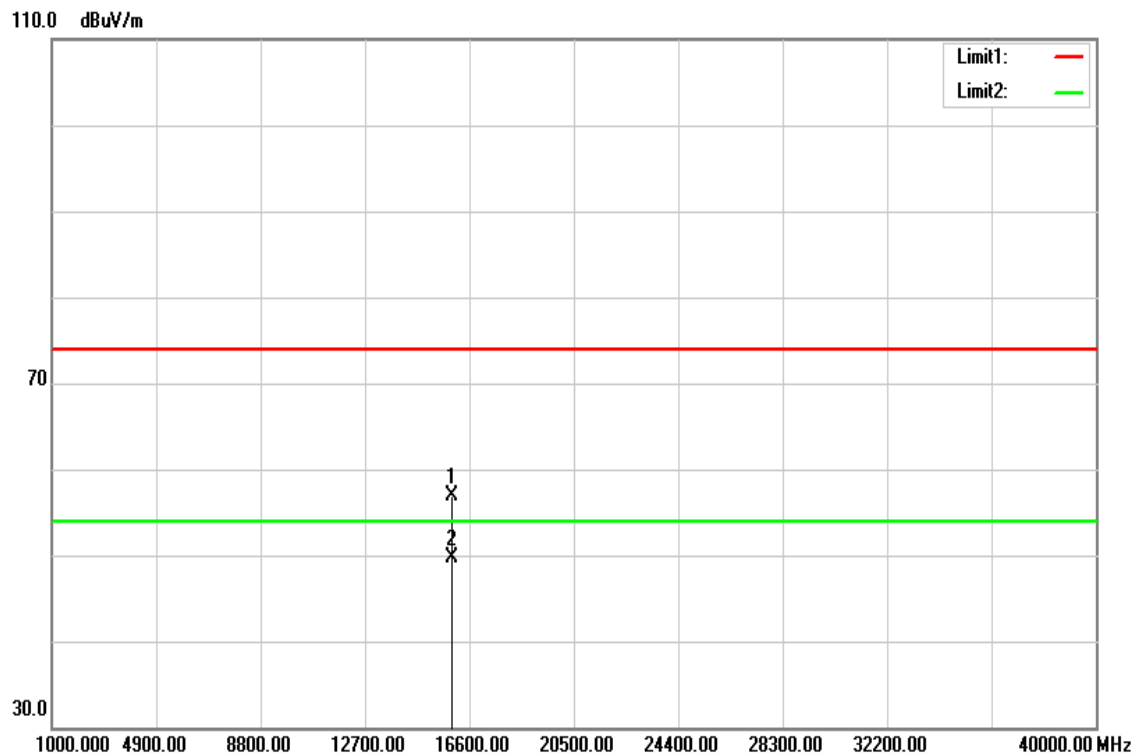


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
15950.000	38.42	18.99	57.41	74.00	-16.59	peak
15950.000	27.21	18.99	46.20	54.00	-7.80	AVG
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11a High CH	Temp/Hum	22.3(°C)/ 46%RH
Test Item	Harmonic	Test Date	November 9, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Peak and Average		

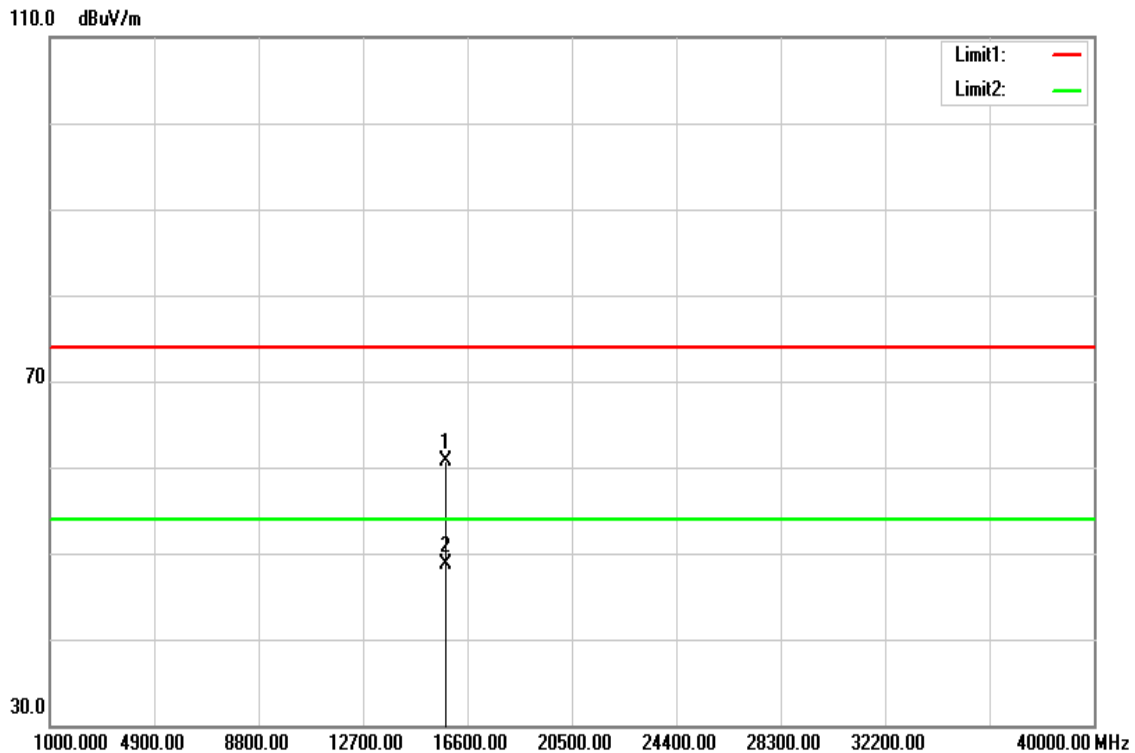


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
15950.000	38.01	18.99	57.00	74.00	-17.00	peak
15950.000	30.64	18.99	49.63	54.00	-4.37	AVG
N/A						

Remark:

- Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11n HT20 Low CH	Temp/Hum	22.3(°C)/ 46%RH
Test Item	Harmonic	Test Date	November 9, 2018
Polarize	Vertical	Test Engineer	Jerry Chuang
Detector	Peak and Average		

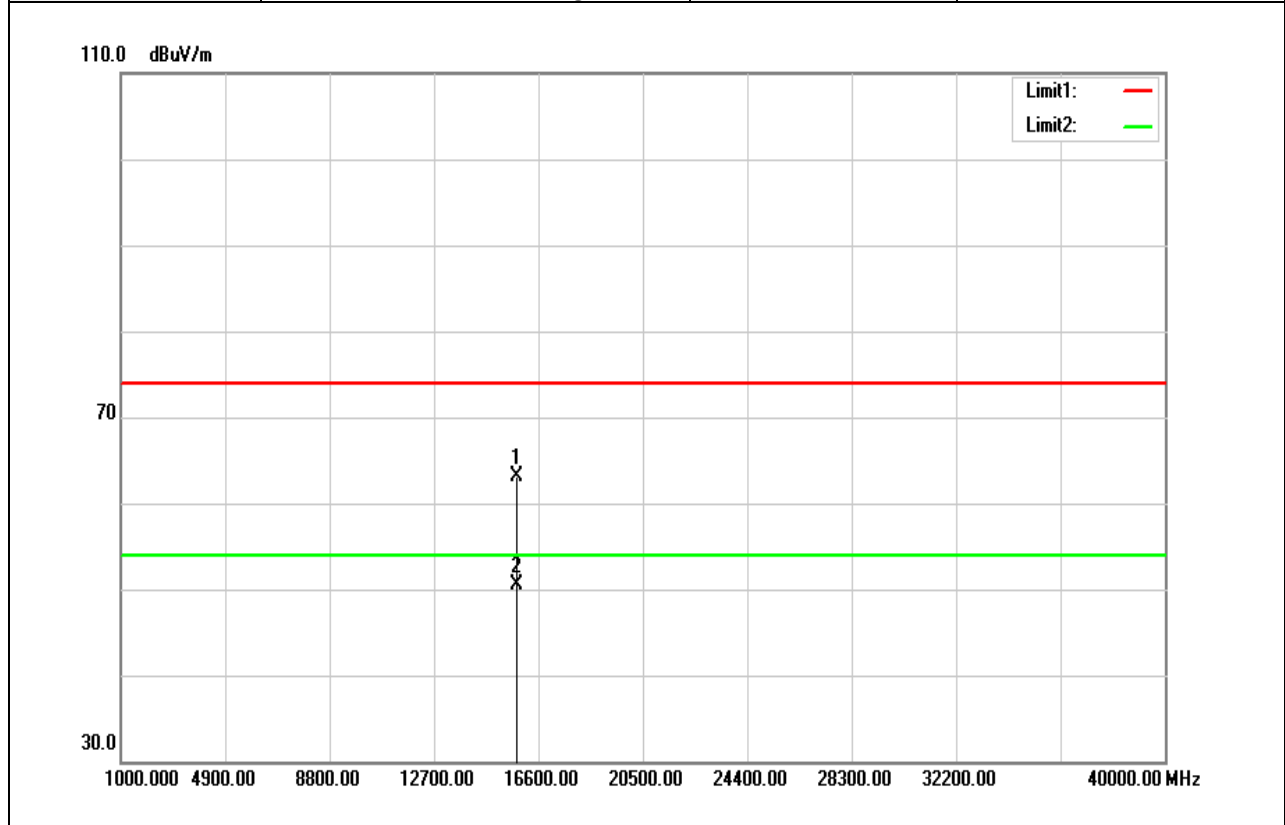


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
15790.000	42.05	18.71	60.76	74.00	-13.24	peak
15790.000	30.00	18.71	48.71	54.00	-5.29	AVG
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11n HT20 Low CH	Temp/Hum	22.3(°C)/ 46%RH
Test Item	Harmonic	Test Date	November 9, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Peak and Average		

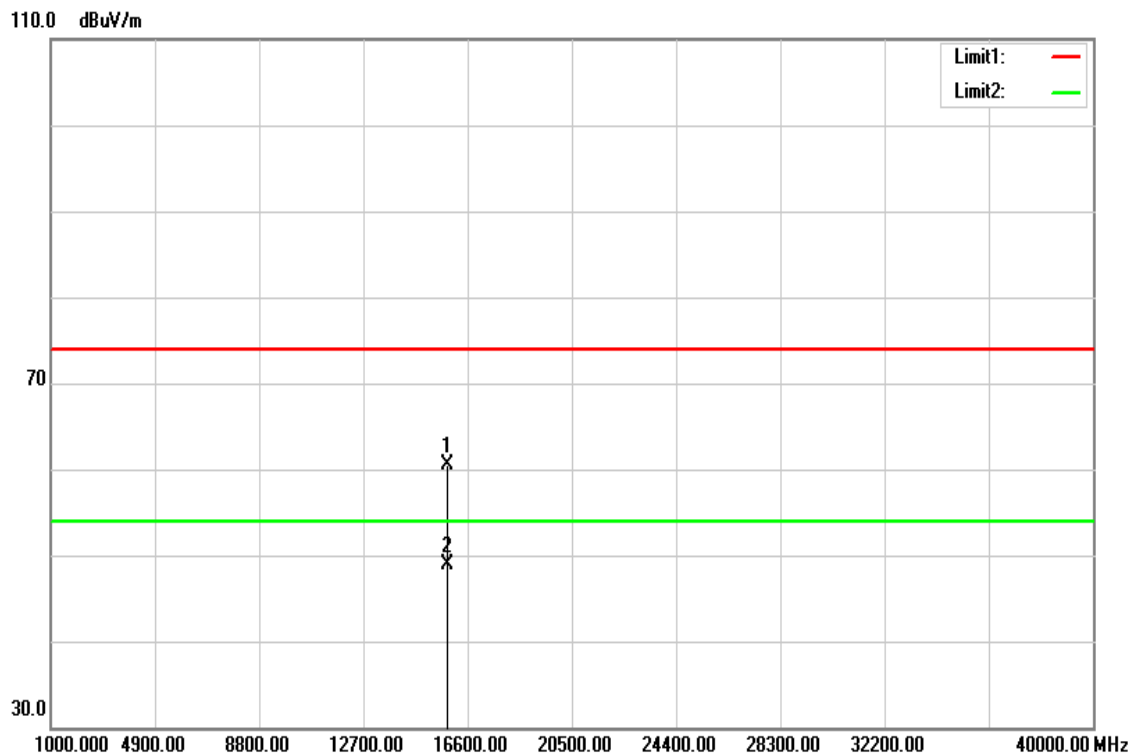


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
15790.000	44.44	18.71	63.15	74.00	-10.85	peak
15790.000	31.85	18.71	50.56	54.00	-3.44	AVG
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11n HT20 Mid CH	Temp/Hum	22.3(°C)/ 46%RH
Test Item	Harmonic	Test Date	November 9, 2018
Polarize	Vertical	Test Engineer	Jerry Chuang
Detector	Peak and Average		

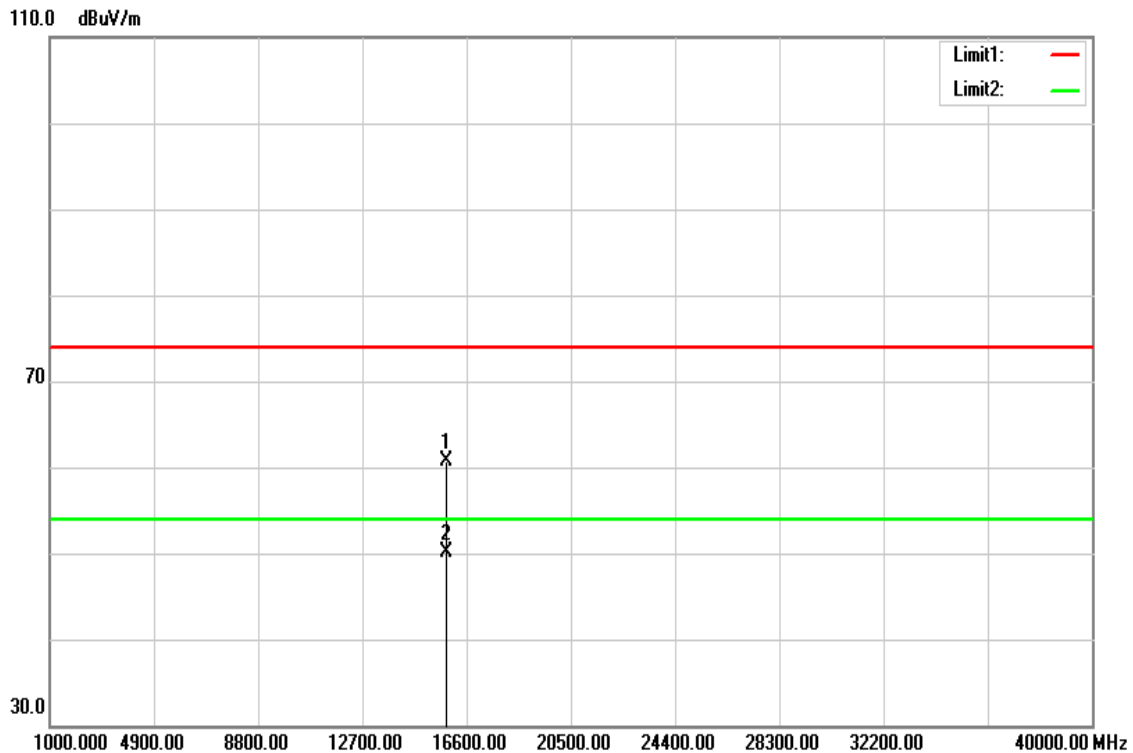


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
15830.000	41.78	18.82	60.60	74.00	-13.40	peak
15830.000	30.10	18.82	48.92	54.00	-5.08	AVG
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11n HT20 Mid CH	Temp/Hum	22.3(°C)/ 46%RH
Test Item	Harmonic	Test Date	November 9, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Peak and Average		

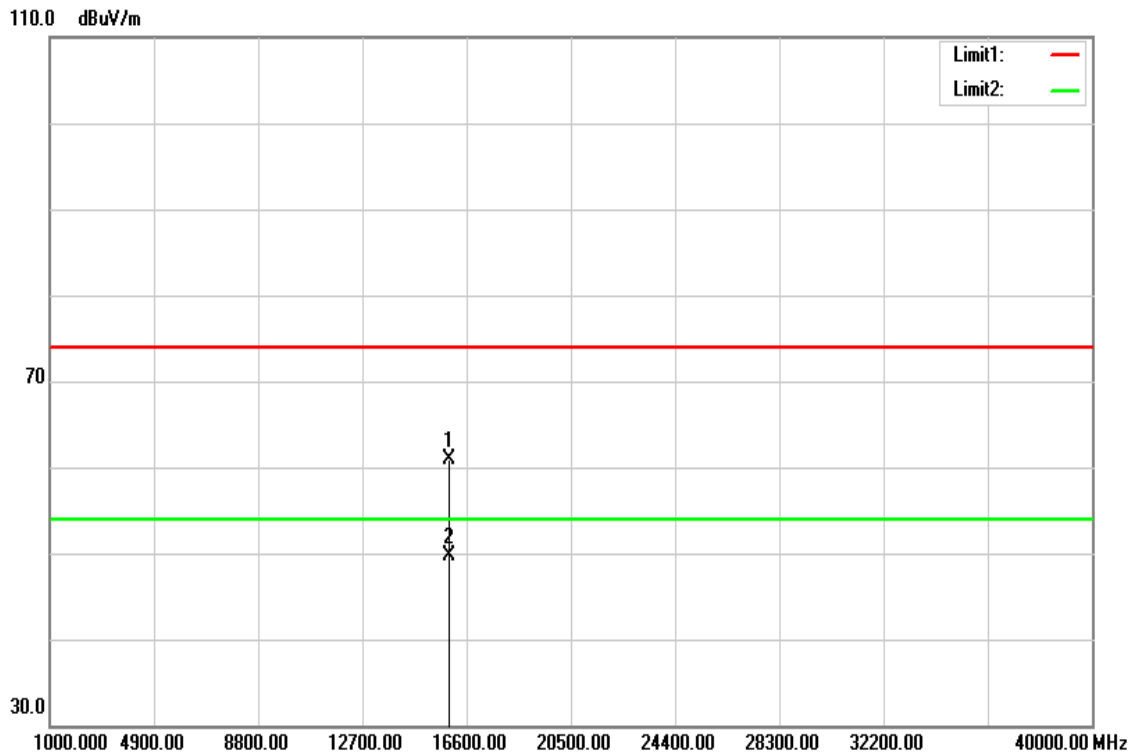


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
15840.000	41.83	18.83	60.66	74.00	-13.34	peak
15840.000	31.20	18.83	50.03	54.00	-3.97	AVG
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11n HT20 High CH	Temp/Hum	22.3(°C)/ 46%RH
Test Item	Harmonic	Test Date	November 9, 2018
Polarize	Vertical	Test Engineer	Jerry Chuang
Detector	Peak and Average		

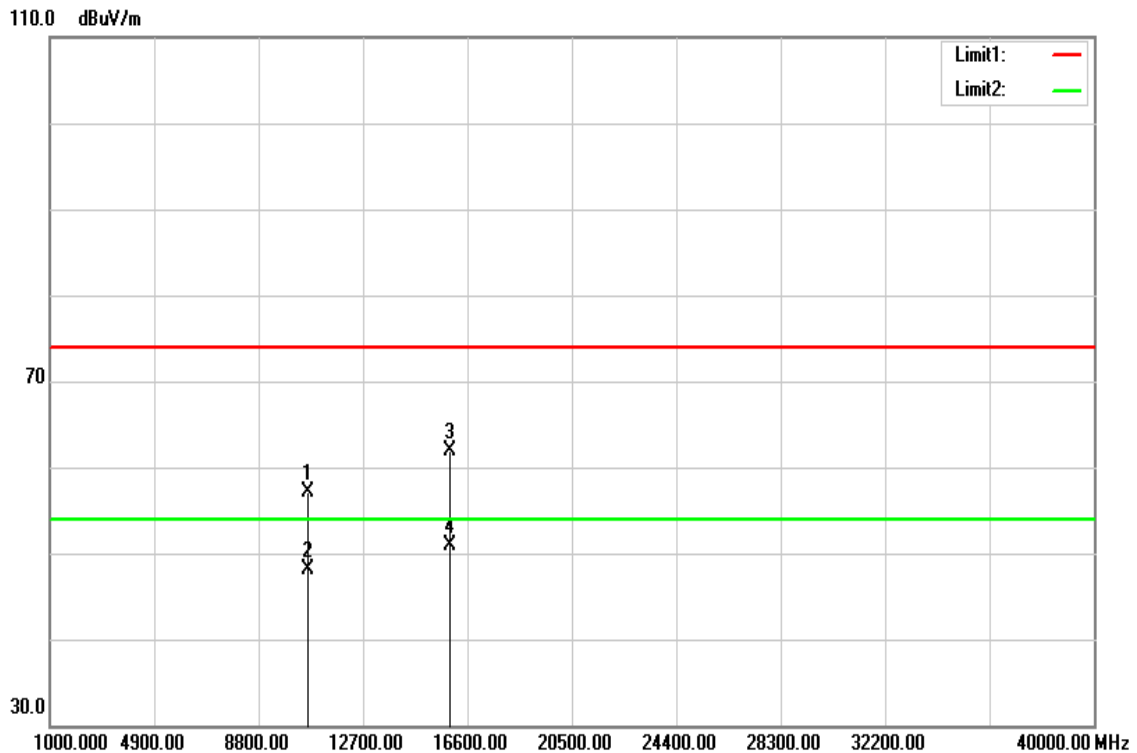


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
15970.000	41.89	19.02	60.91	74.00	-13.09	peak
15970.000	30.66	19.02	49.68	54.00	-4.32	AVG
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11n HT20 High CH	Temp/Hum	22.3(°C)/ 46%RH
Test Item	Harmonic	Test Date	November 9, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Peak and Average		

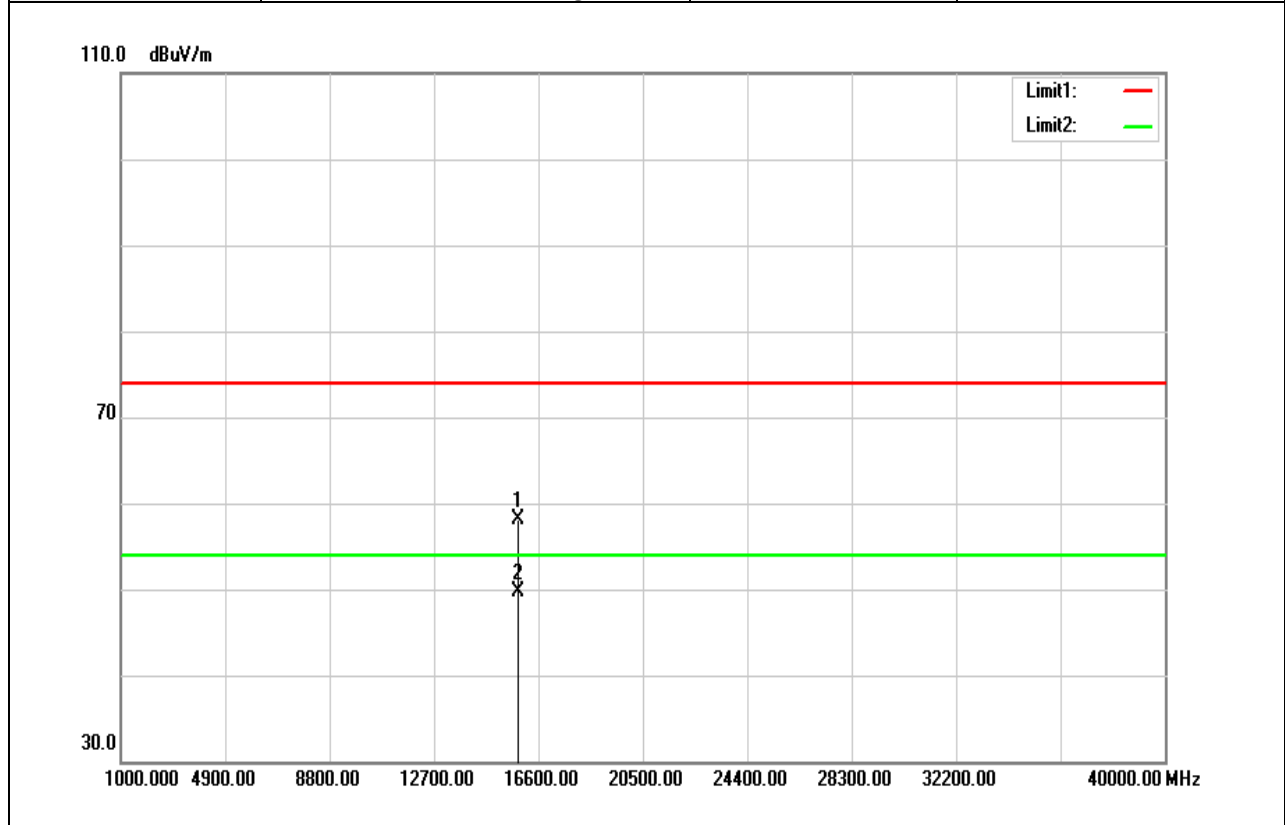


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
10640.000	41.80	15.22	57.02	74.00	-16.98	peak
10640.000	32.86	15.22	48.08	54.00	-5.92	AVG
15960.000	42.99	19.00	61.99	74.00	-12.01	peak
15960.000	31.83	19.00	50.83	54.00	-3.17	AVG
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11n HT40 Low CH	Temp/Hum	22.3(°C)/ 46%RH
Test Item	Harmonic	Test Date	November 9, 2018
Polarize	Vertical	Test Engineer	Jerry Chuang
Detector	Peak and Average		

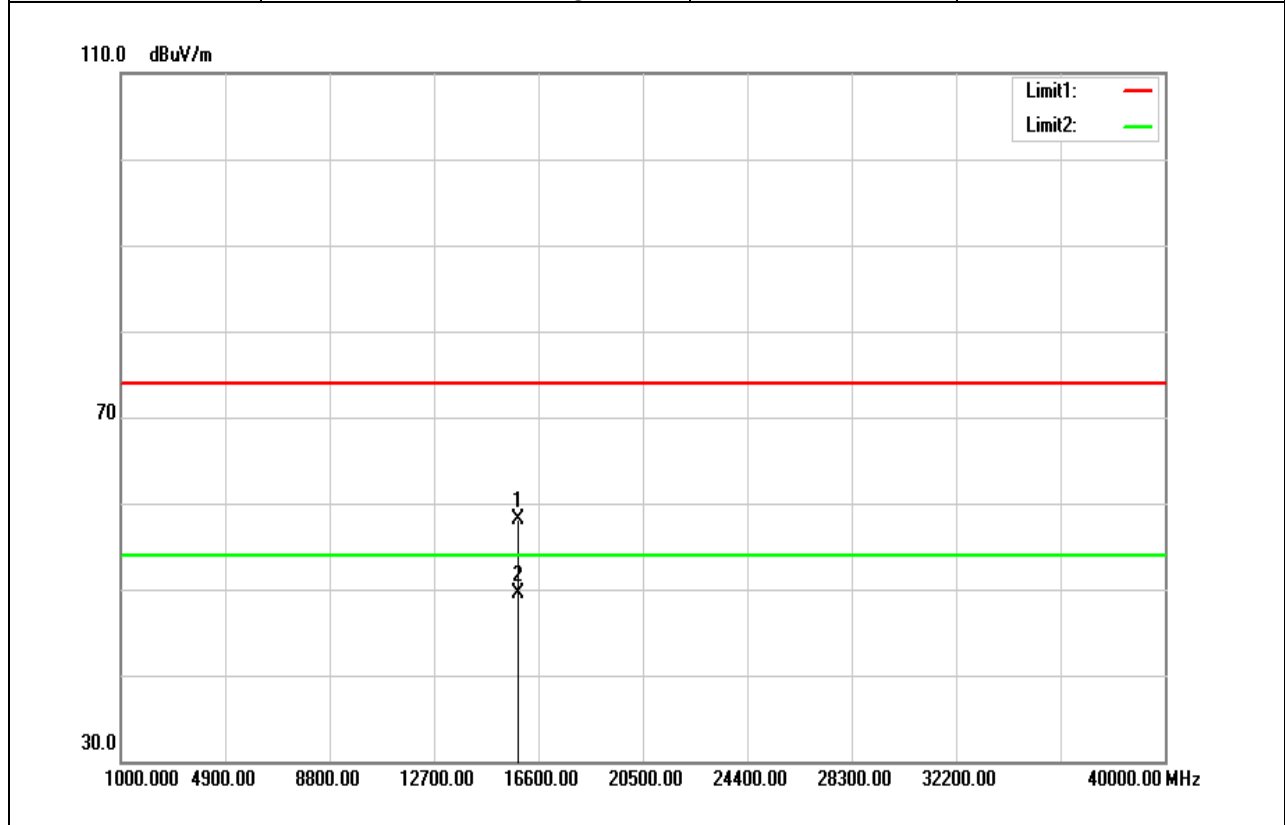


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
15820.000	39.22	18.80	58.02	74.00	-15.98	peak
15820.000	30.88	18.80	49.68	54.00	-4.32	AVG
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11n HT40 Low CH	Temp/Hum	22.3(°C)/ 46%RH
Test Item	Harmonic	Test Date	November 9, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Peak and Average		

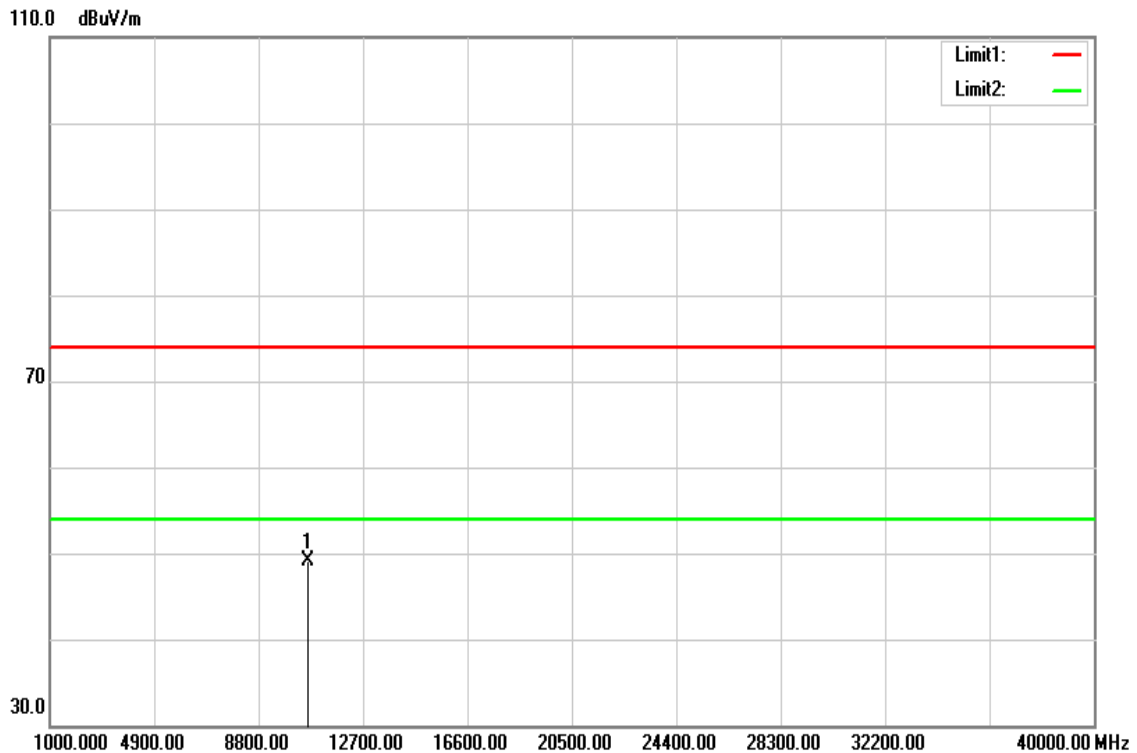


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
15820.000	39.31	18.80	58.11	74.00	-15.89	peak
15820.000	30.75	18.80	49.55	54.00	-4.45	AVG
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11n HT40 High CH	Temp/Hum	22.3(°C)/ 46%RH
Test Item	Harmonic	Test Date	November 7, 2018
Polarize	Vertical	Test Engineer	Jerry Chuang
Detector	Peak		

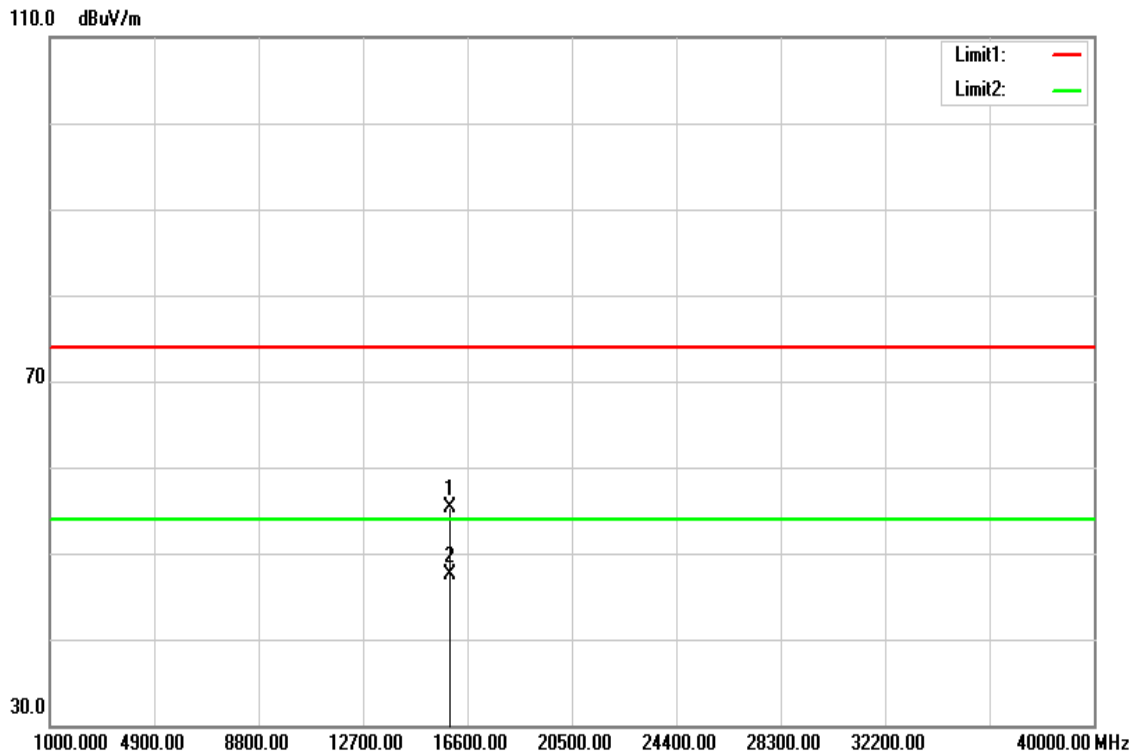


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
10620.000	33.91	15.19	49.10	74.00	-24.90	peak
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT40 High CH	Temp/Hum	22.3(°C)/ 46%RH
Test Item	Harmonic	Test Date	November 9, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Peak and Average		

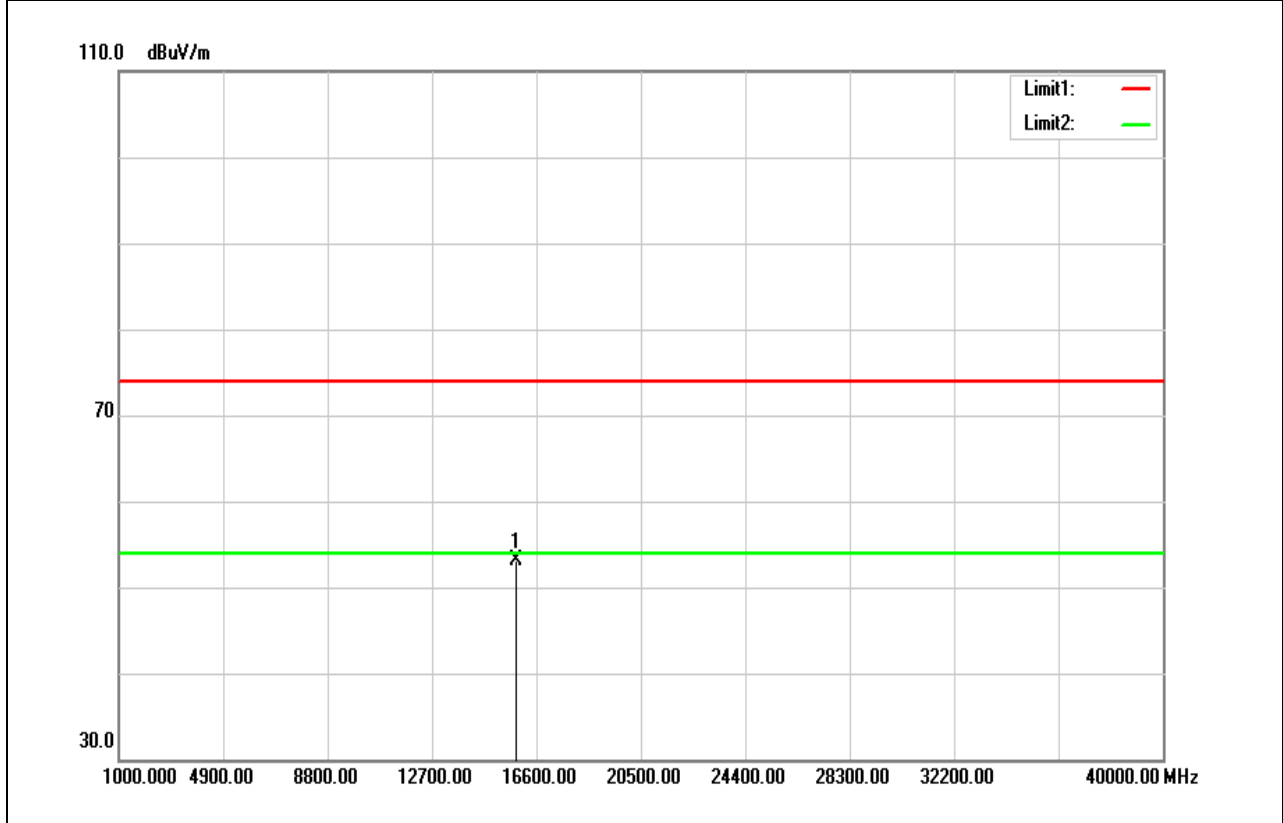


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
15930.000	36.32	18.95	55.27	74.00	-18.73	peak
15930.000	28.60	18.95	47.55	54.00	-6.45	AVG
N/A						

Remark:

- Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11ac VHT80 5290MHz	Temp/Hum	22.3(°C)/ 46%RH
Test Item	Harmonic	Test Date	November 9, 2018
Polarize	Vertical	Test Engineer	Jerry Chuang
Detector	Peak		

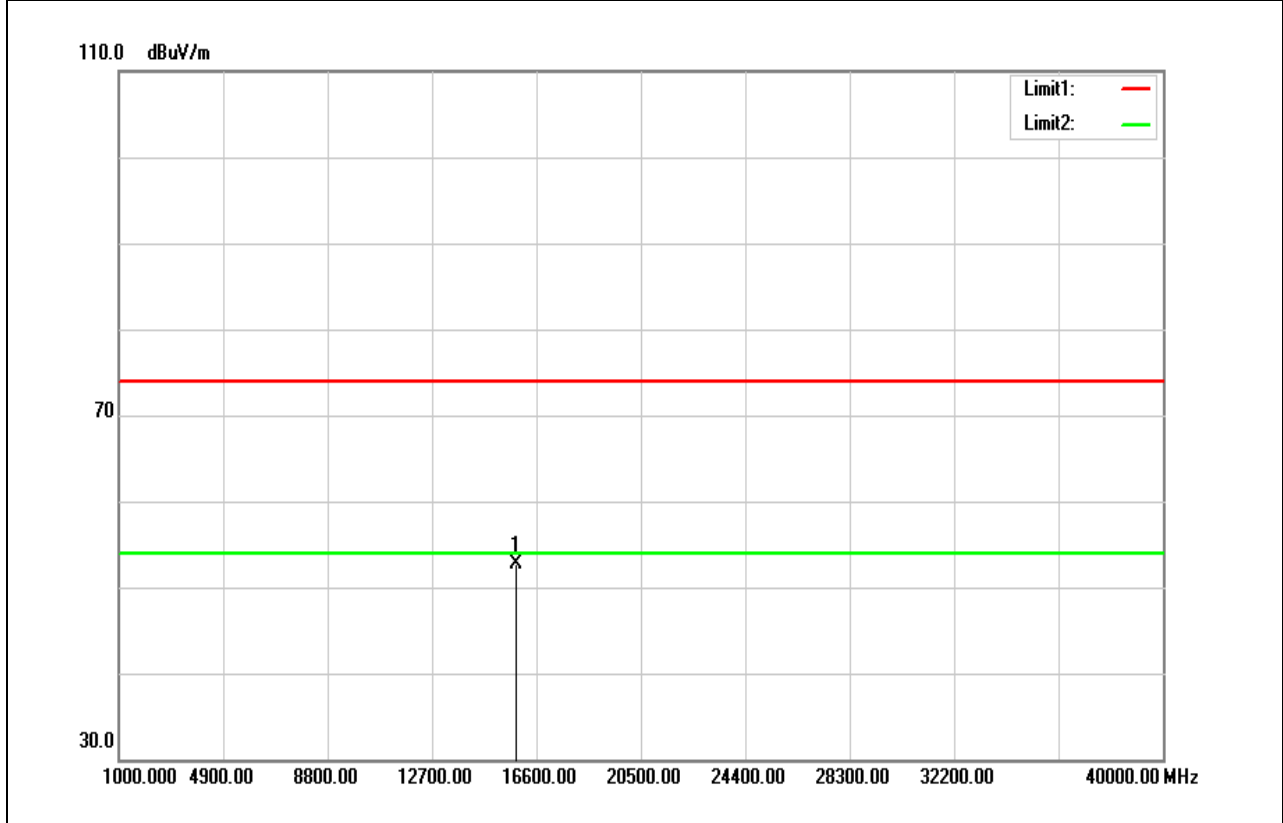


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
15870.000	34.16	18.87	53.03	74.00	-20.97	peak
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11ac VHT80 5290MHz	Temp/Hum	22.3(°C)/ 46%RH
Test Item	Harmonic	Test Date	November 9, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Peak		



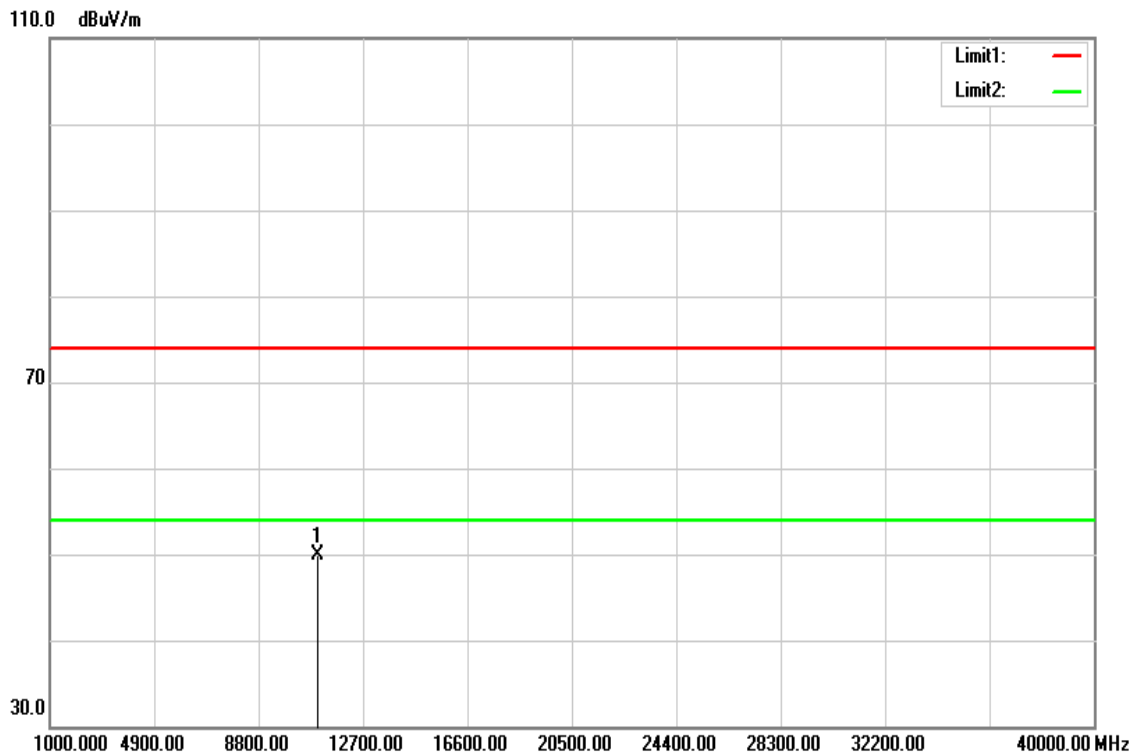
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
15870.000	33.81	18.87	52.68	74.00	-21.32	peak
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Above 1G Test Data for UNII-2c

Test Mode	IEEE 802.11a Low CH	Temp/Hum	22.3(°C)/ 46%RH
Test Item	Harmonic	Test Date	November 9, 2018
Polarize	Vertical	Test Engineer	Jerry Chuang
Detector	Peak		

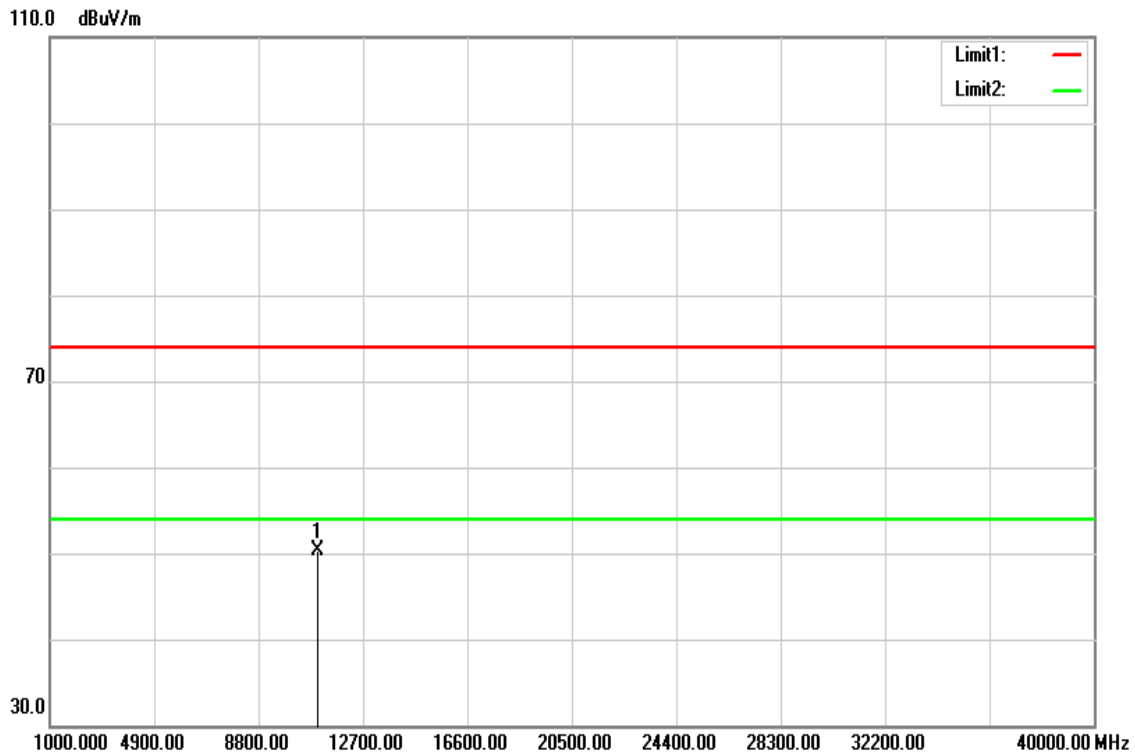


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11000.000	34.20	15.68	49.88	74.00	-24.12	peak
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11a Low CH	Temp/Hum	22.3(°C)/ 46%RH
Test Item	Harmonic	Test Date	November 9, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Peak		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11000.000	34.62	15.68	50.30	74.00	-23.70	peak
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11a Mid CH	Temp/Hum	22.3(°C)/ 46%RH
Test Item	Harmonic	Test Date	November 9, 2018
Polarize	Vertical	Test Engineer	Jerry Chuang
Detector	Peak		

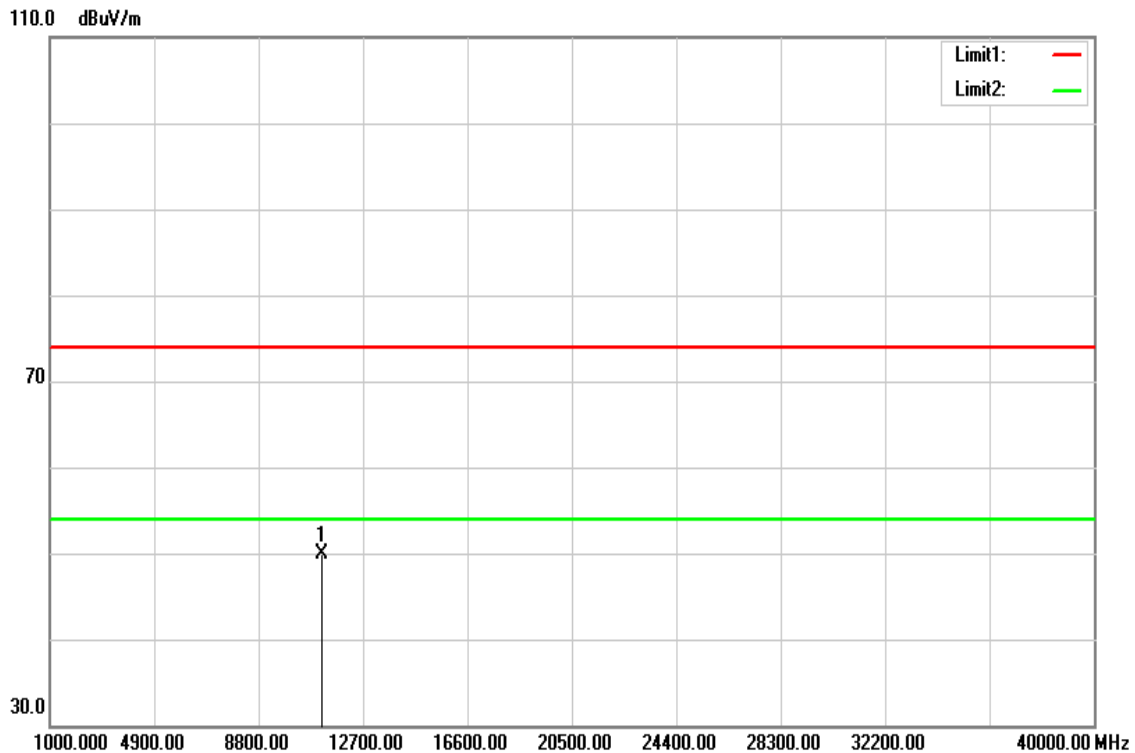


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11160.000	35.54	15.77	51.31	74.00	-22.69	peak
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11a Mid CH	Temp/Hum	22.3(°C)/ 46%RH
Test Item	Harmonic	Test Date	November 9, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Peak		

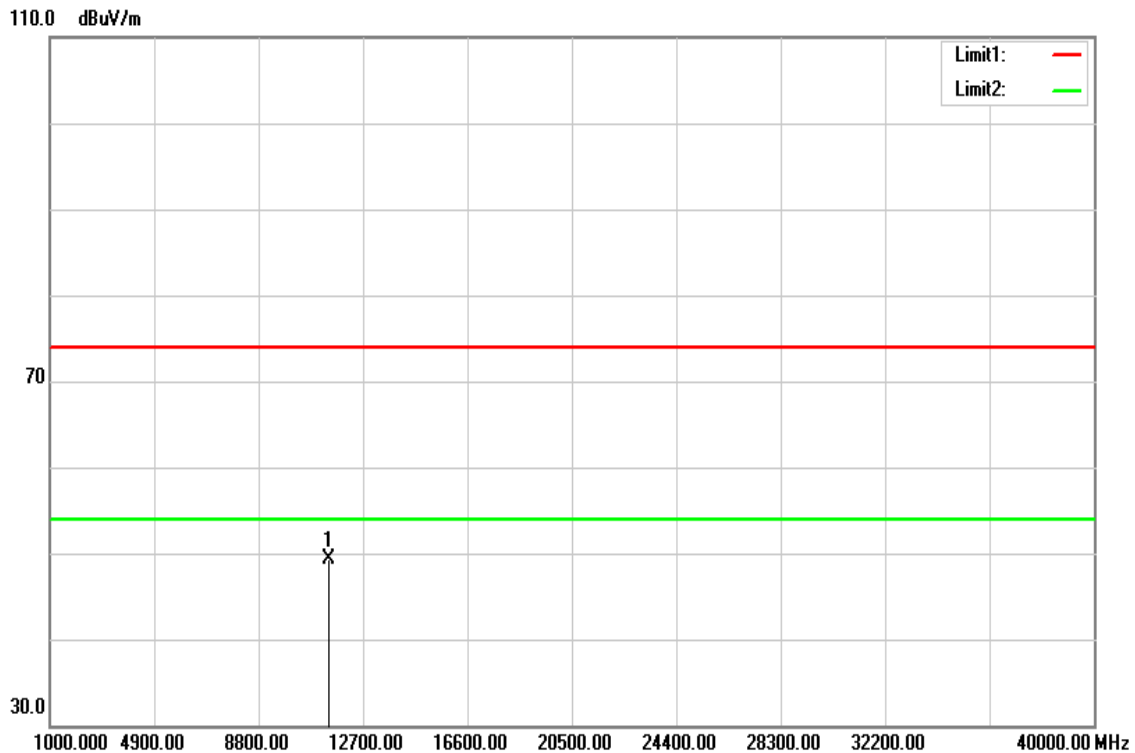


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11160.000	34.17	15.77	49.94	74.00	-24.06	peak
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11a High CH	Temp/Hum	22.3(°C)/ 46%RH
Test Item	Harmonic	Test Date	November 9, 2018
Polarize	Vertical	Test Engineer	Jerry Chuang
Detector	Peak		

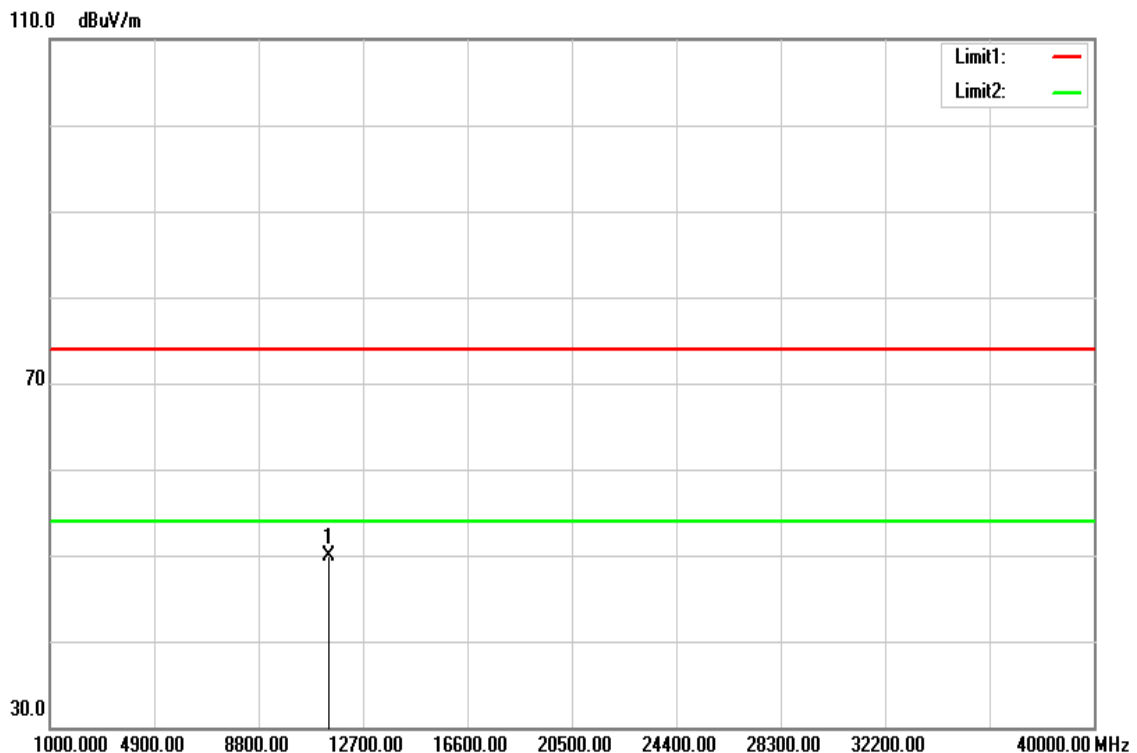


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11400.000	33.58	15.62	49.20	74.00	-24.80	peak
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11a High CH	Temp/Hum	22.3(°C)/ 46%RH
Test Item	Harmonic	Test Date	November 9, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Peak		

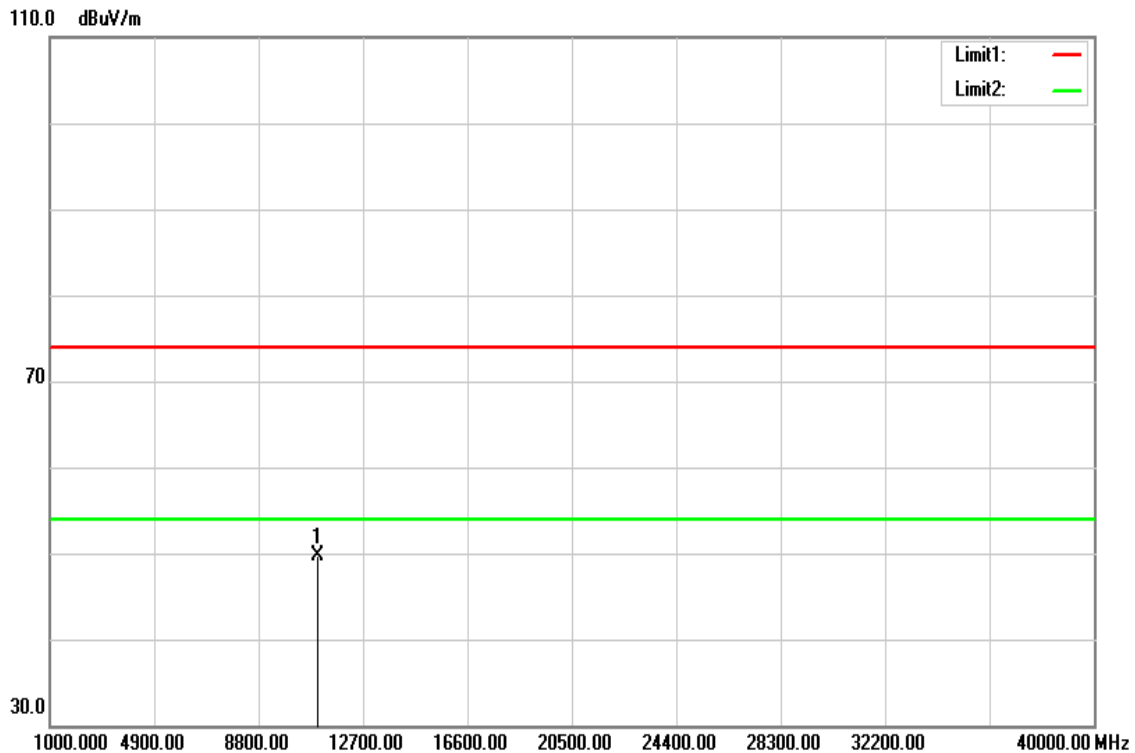


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11400.000	34.32	15.62	49.94	74.00	-24.06	peak
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT20 Low CH	Temp/Hum	22.3(°C)/ 46%RH
Test Item	Harmonic	Test Date	November 9, 2018
Polarize	Vertical	Test Engineer	Jerry Chuang
Detector	Peak		

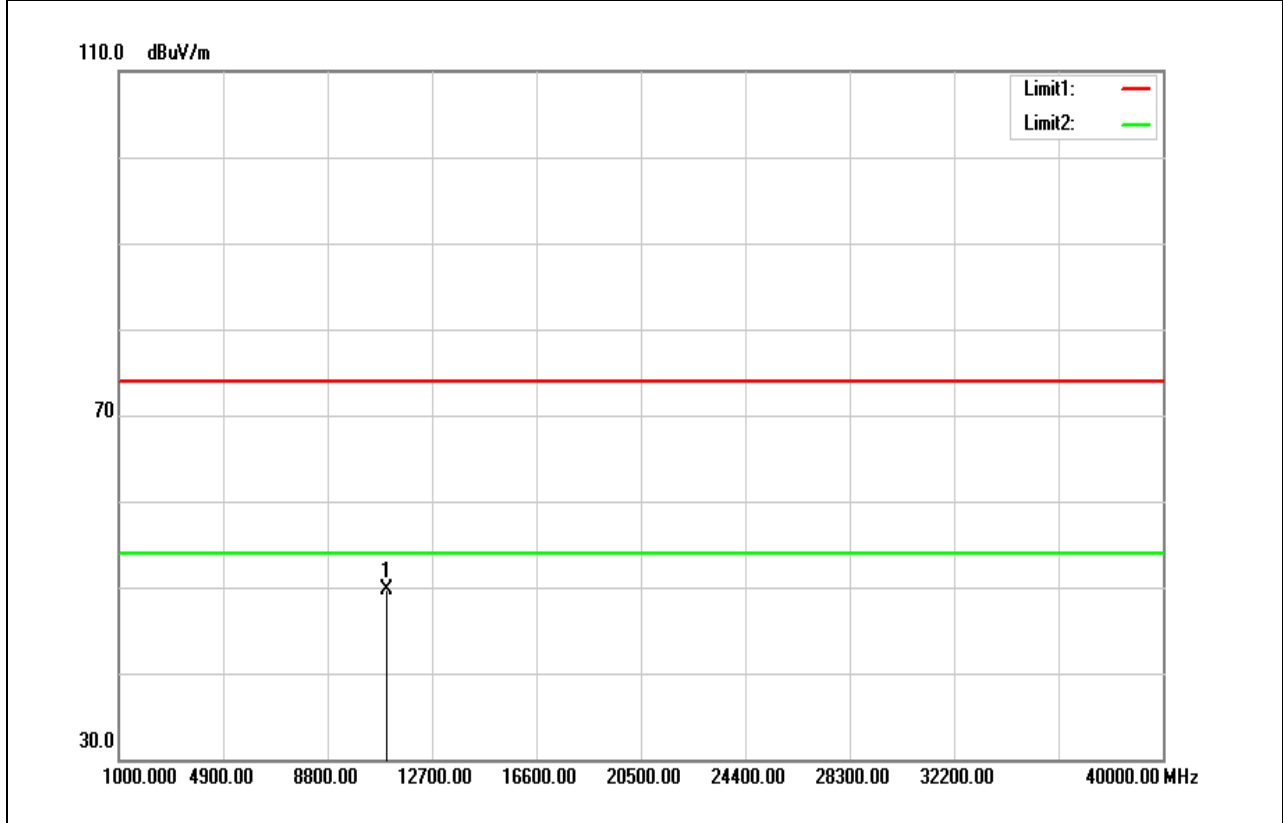


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11000.000	34.00	15.68	49.68	74.00	-24.32	peak
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT20 Low CH	Temp/Hum	22.3(°C)/ 46%RH
Test Item	Harmonic	Test Date	November 9, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Peak		

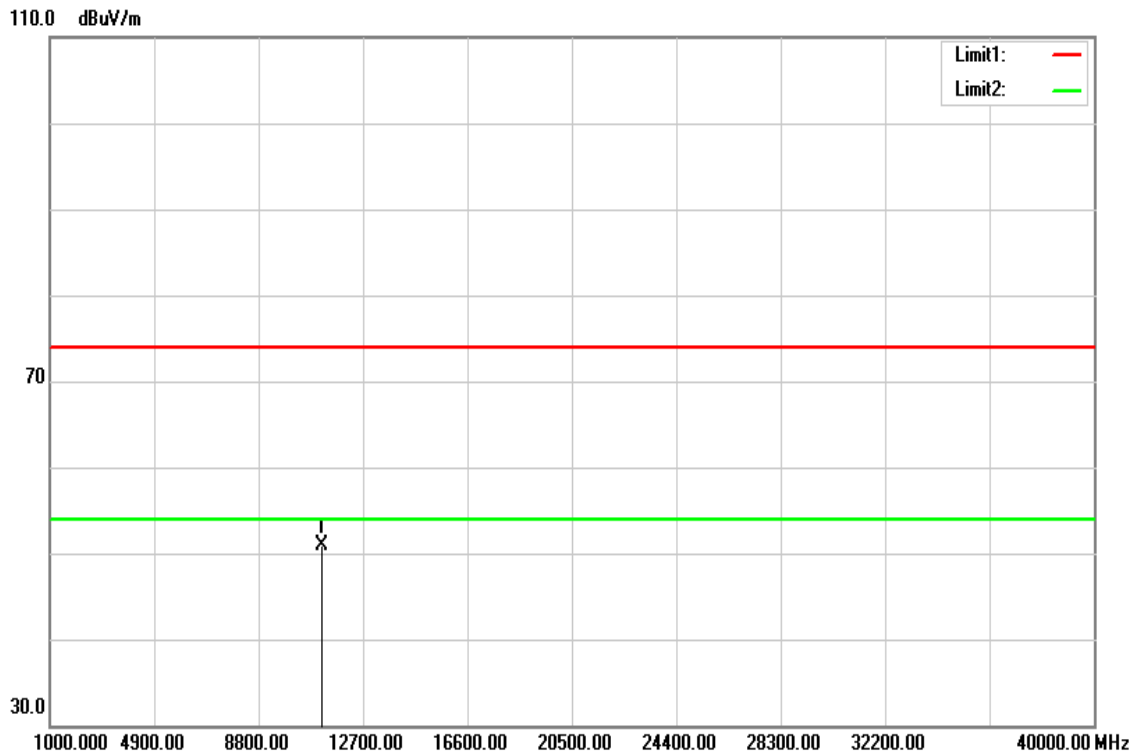


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11000.000	34.11	15.68	49.79	74.00	-24.21	peak
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT20 Mid CH	Temp/Hum	22.3(°C)/ 46%RH
Test Item	Harmonic	Test Date	November 9, 2018
Polarize	Vertical	Test Engineer	Jerry Chuang
Detector	Peak		

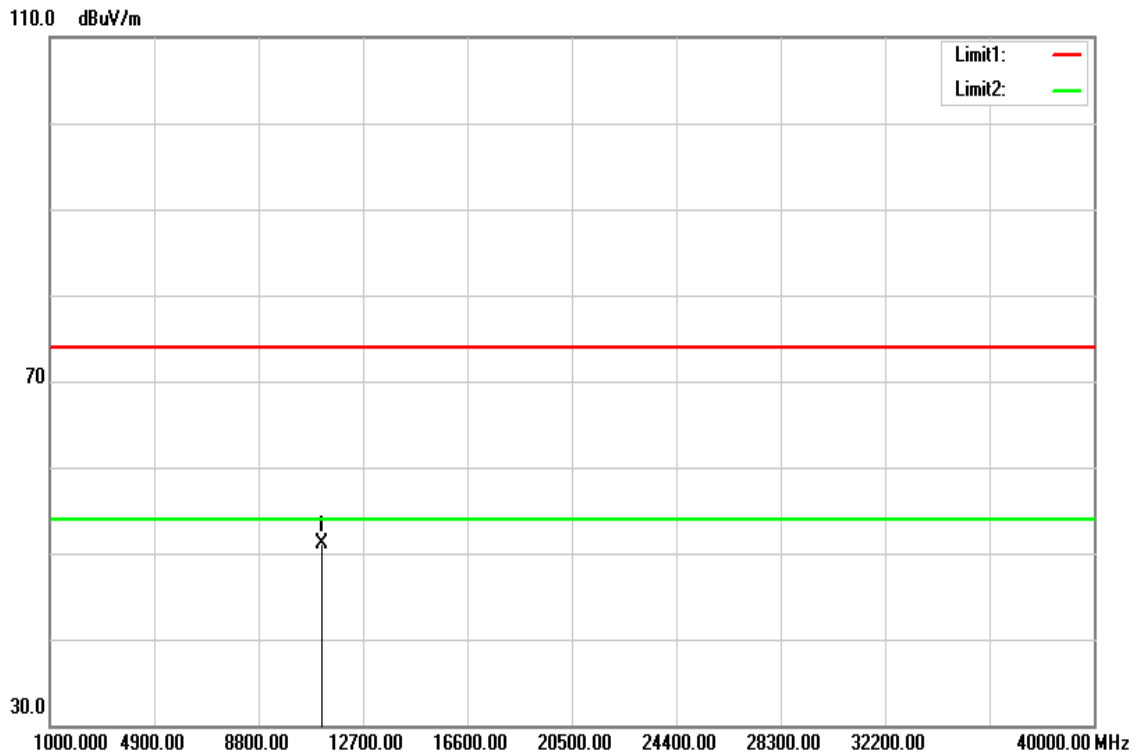


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11160.000	35.10	15.77	50.87	74.00	-23.13	peak
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT20 Mid CH	Temp/Hum	22.3(°C)/ 46%RH
Test Item	Harmonic	Test Date	November 9, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Peak		

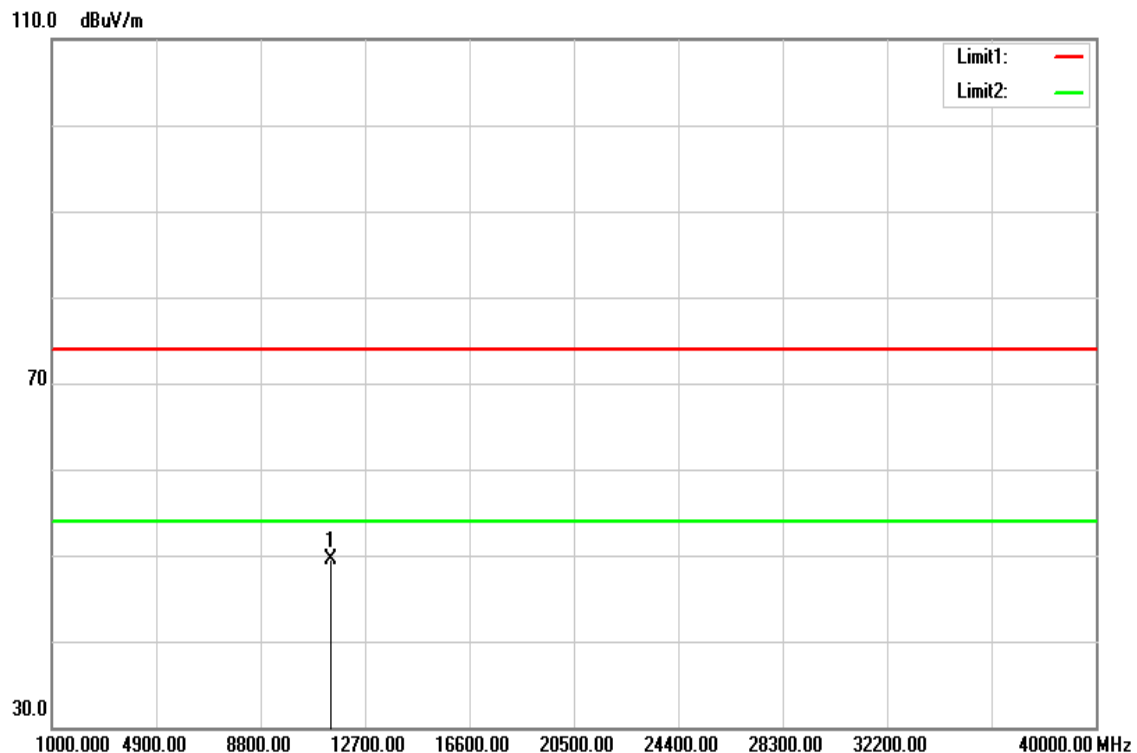


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11160.000	35.26	15.77	51.03	74.00	-22.97	peak
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT20 High CH	Temp/Hum	22.3(°C)/ 46%RH
Test Item	Harmonic	Test Date	November 9, 2018
Polarize	Vertical	Test Engineer	Jerry Chuang
Detector	Peak		

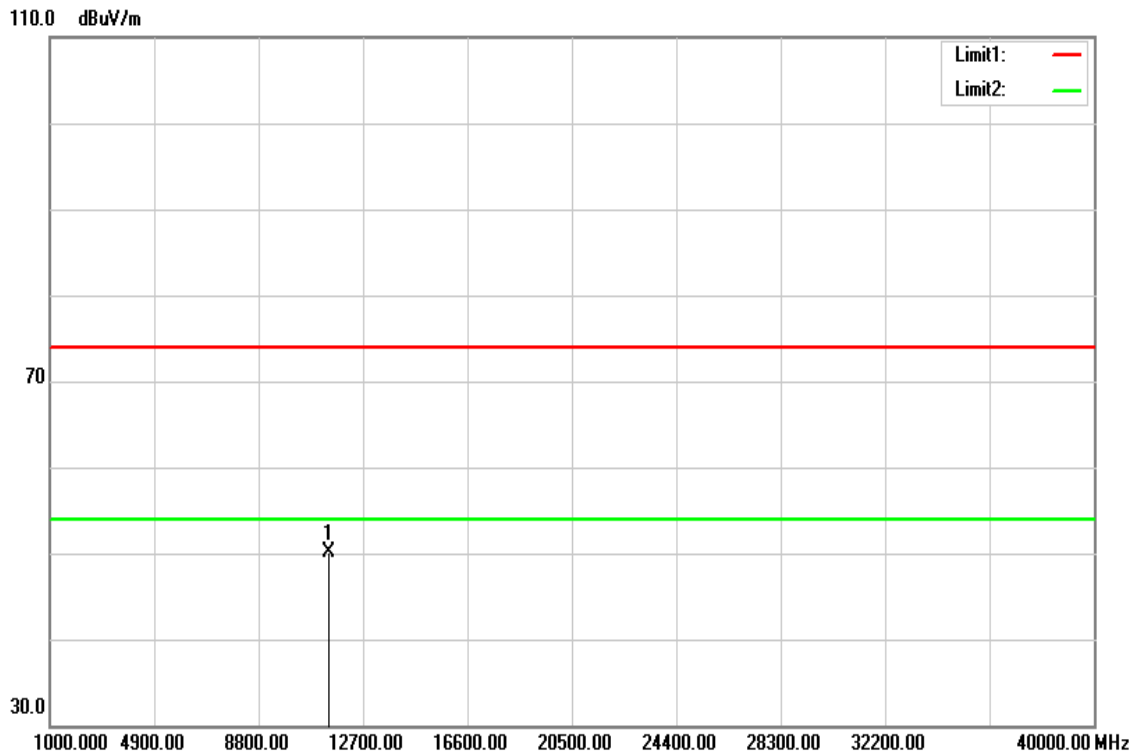


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11400.000	33.91	15.62	49.53	74.00	-24.47	peak
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT20 High CH	Temp/Hum	22.3(°C)/ 46%RH
Test Item	Harmonic	Test Date	November 9, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Peak		

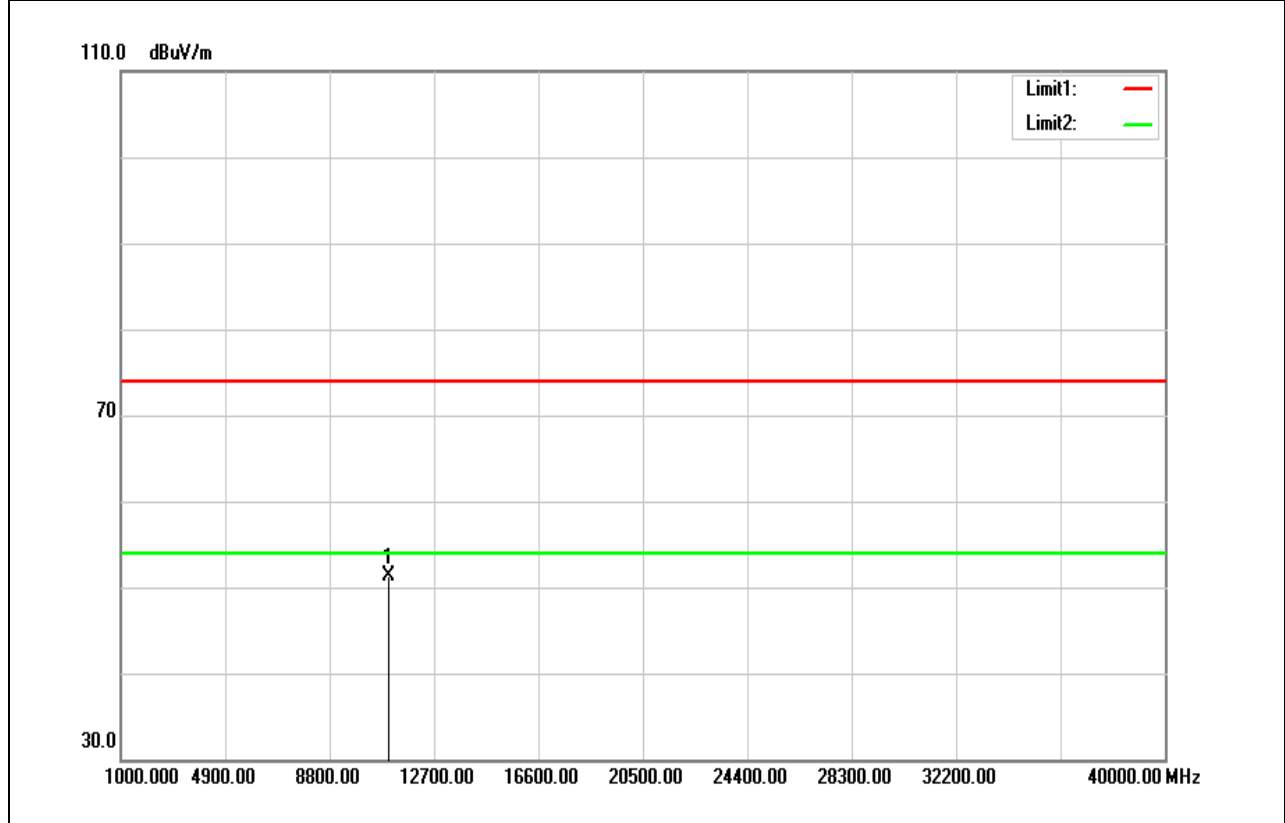


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11400.000	34.56	15.62	50.18	74.00	-23.82	peak
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT40 Low CH	Temp/Hum	22.3(°C)/ 46%RH
Test Item	Harmonic	Test Date	November 9, 2018
Polarize	Vertical	Test Engineer	Jerry Chuang
Detector	Peak		

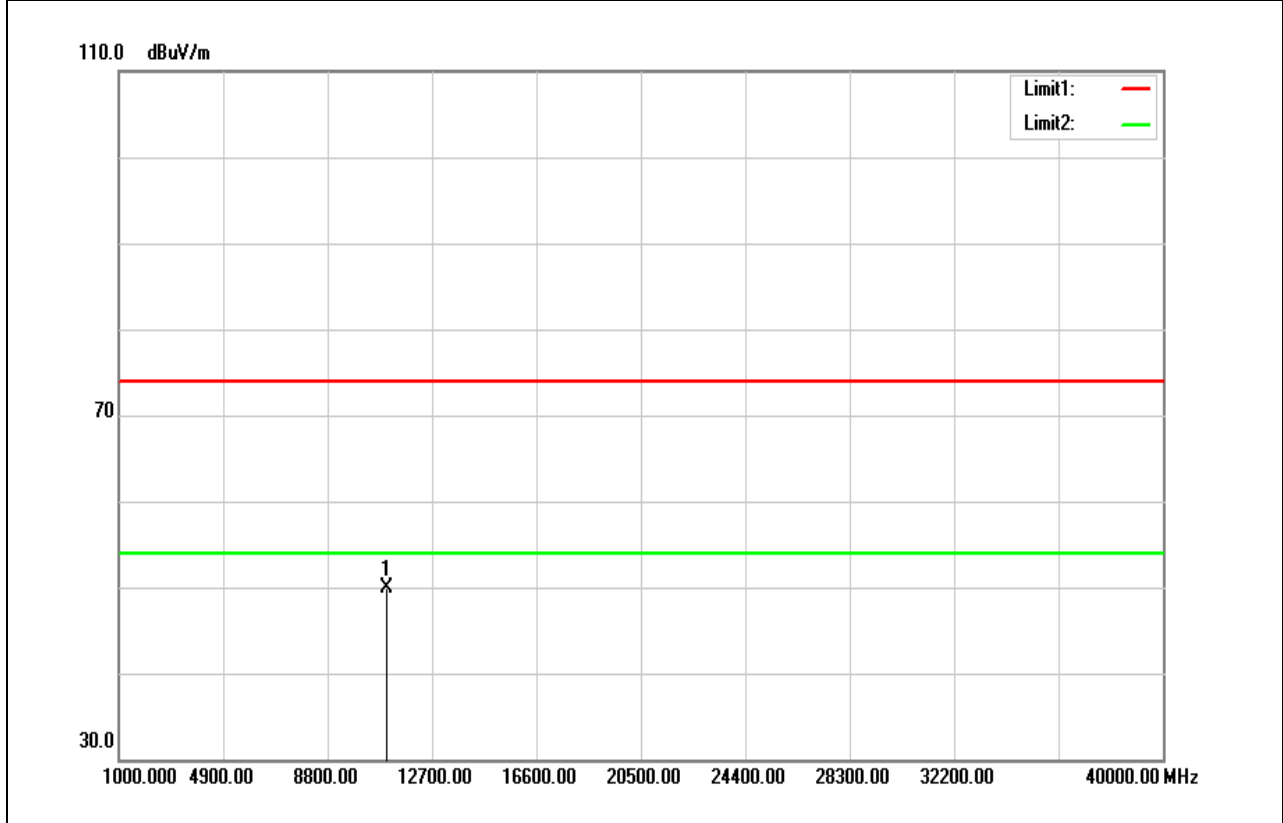


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11020.000	35.66	15.70	51.36	74.00	-22.64	peak
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT40 Low CH	Temp/Hum	22.3(°C)/ 46%RH
Test Item	Harmonic	Test Date	November 9, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Peak		

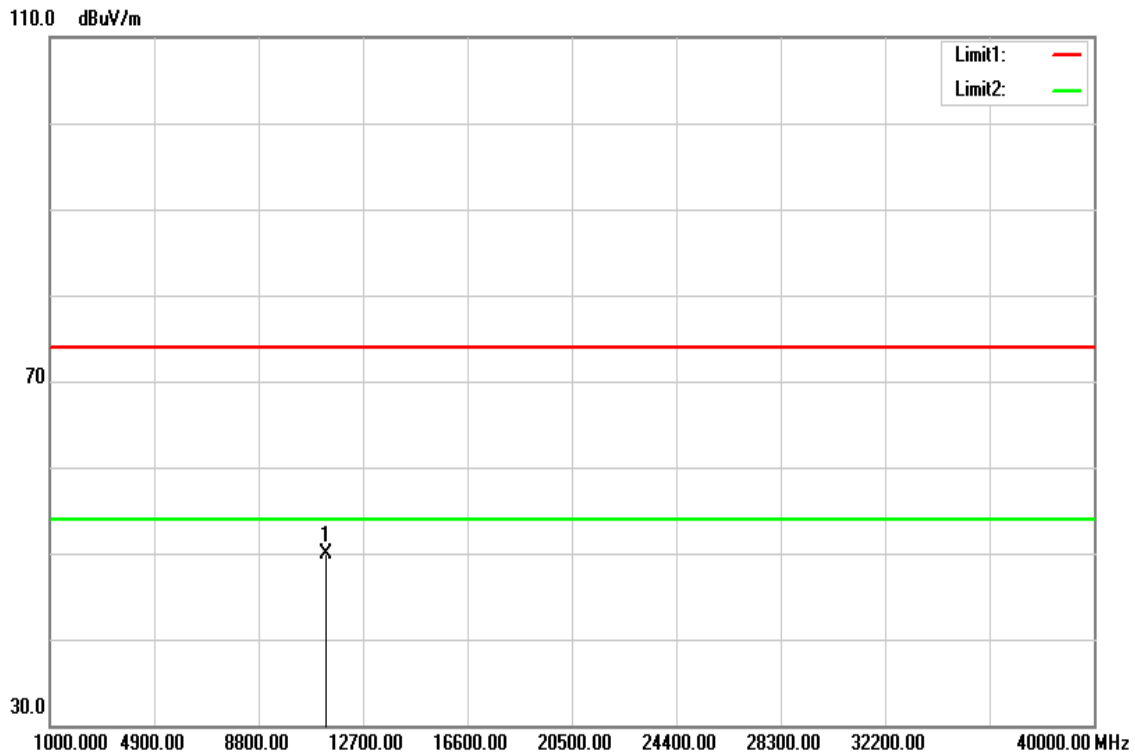


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11020.000	34.21	15.70	49.91	74.00	-24.09	peak
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT40 High CH	Temp/Hum	22.3(°C)/ 46%RH
Test Item	Harmonic	Test Date	November 7, 2018
Polarize	Vertical	Test Engineer	Jerry Chuang
Detector	Peak		

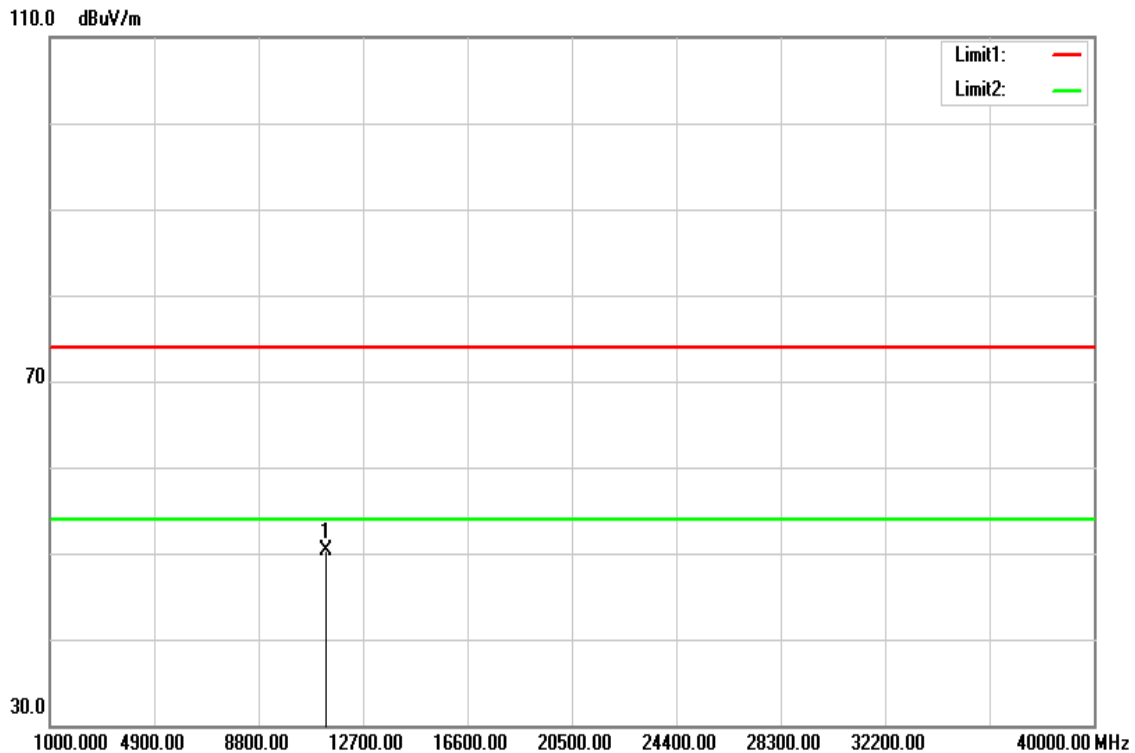


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11340.000	34.19	15.68	49.87	74.00	-24.13	peak
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT40 High CH	Temp/Hum	22.3(°C)/ 46%RH
Test Item	Harmonic	Test Date	November 9, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Peak		

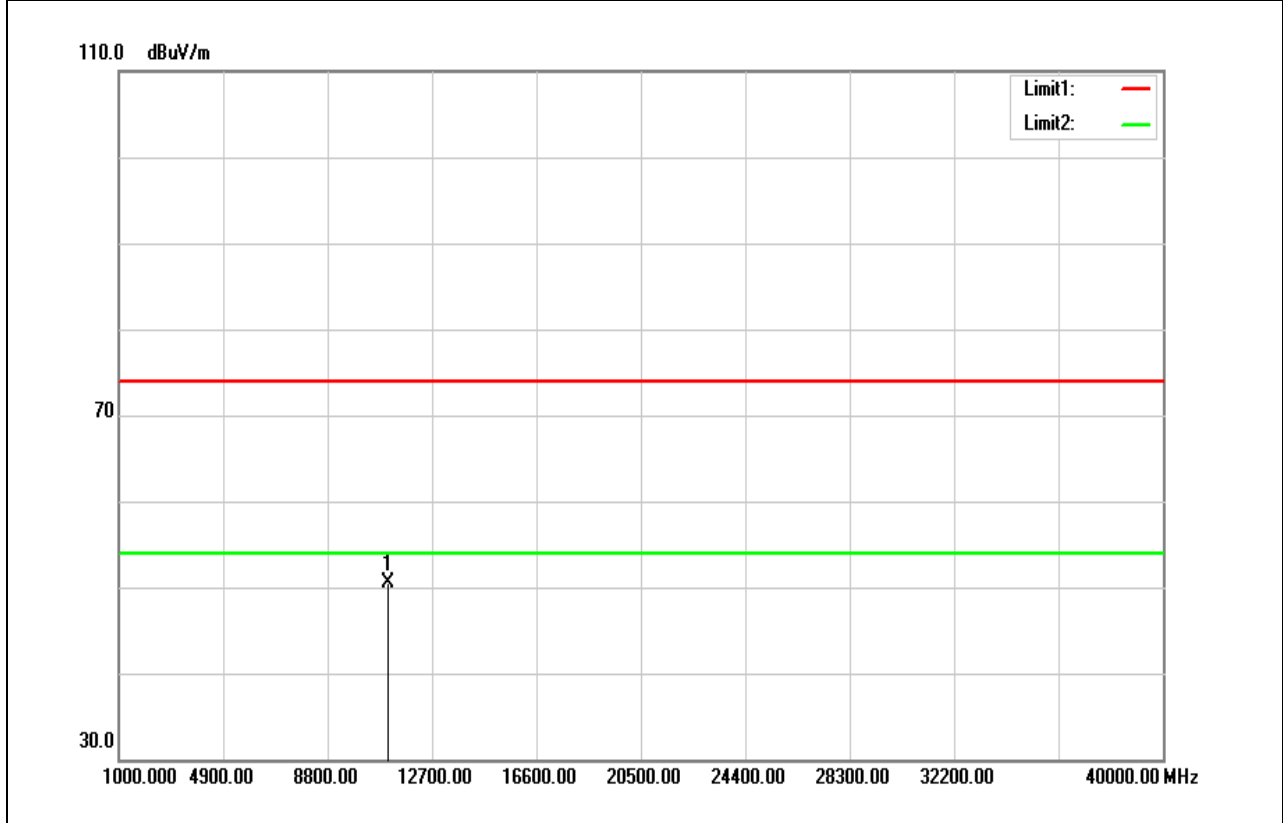


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11340.000	34.58	15.68	50.26	74.00	-23.74	peak
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11ac VHT80 5530MHz	Temp/Hum	22.3(°C)/ 46%RH
Test Item	Harmonic	Test Date	November 9, 2018
Polarize	Vertical	Test Engineer	Jerry Chuang
Detector	Peak		

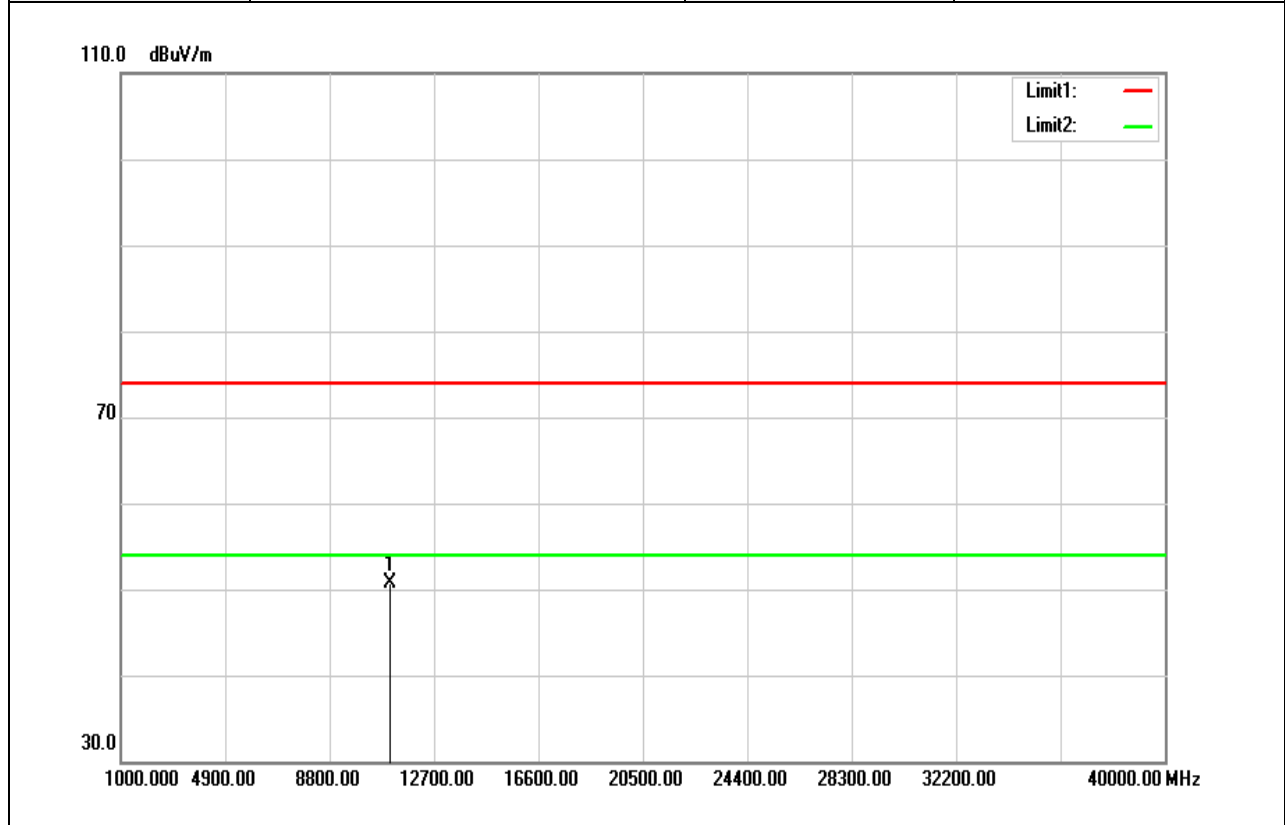


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11060.000	34.83	15.72	50.55	74.00	-23.45	peak
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11ac VHT80 5210MHz	Temp/Hum	22.3(°C)/ 46%RH
Test Item	Harmonic	Test Date	November 9, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Peak		



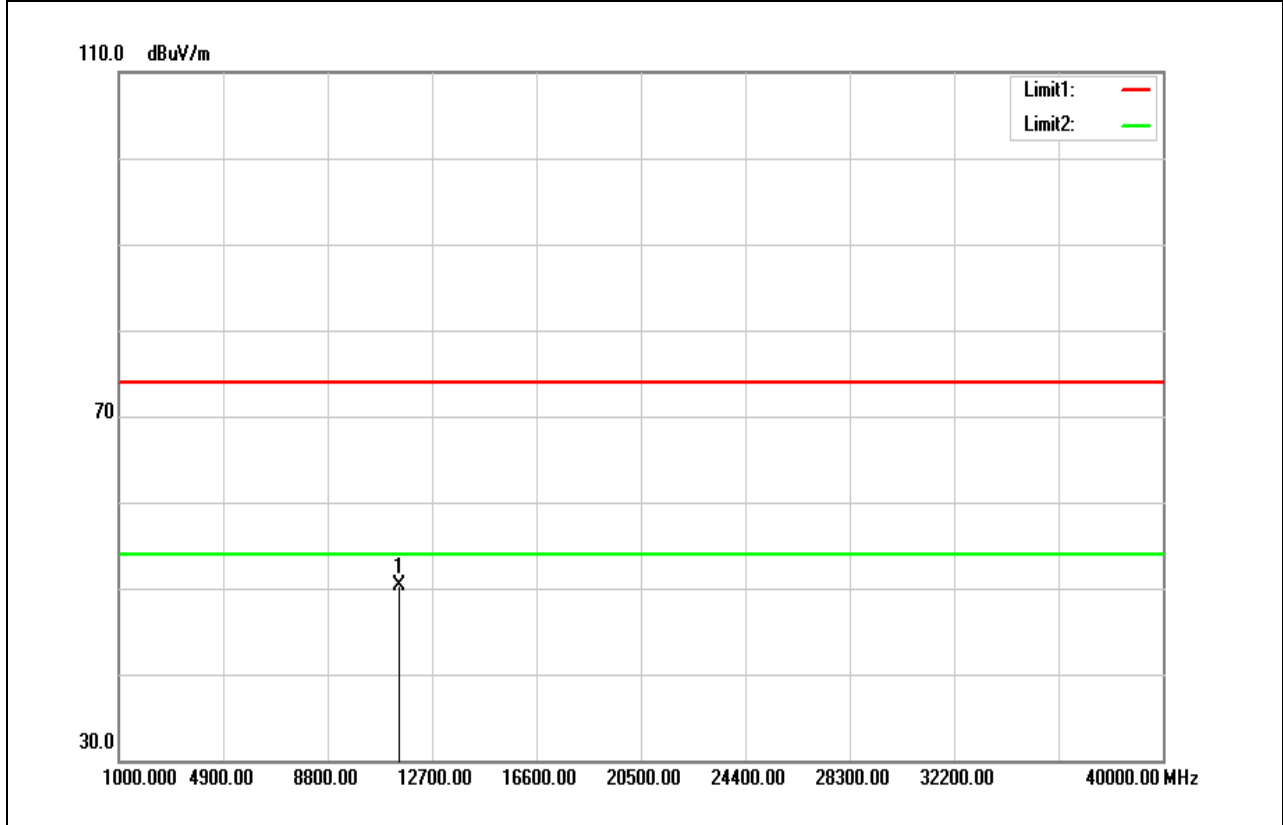
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11060.000	35.03	15.72	50.75	74.00	-23.25	peak
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Above 1G Test Data for UNII-3

Test Mode	IEEE 802.11a Low CH	Temp/Hum	22.3(°C)/ 46%RH
Test Item	Harmonic	Test Date	November 9, 2018
Polarize	Vertical	Test Engineer	Jerry Chuang
Detector	Peak		

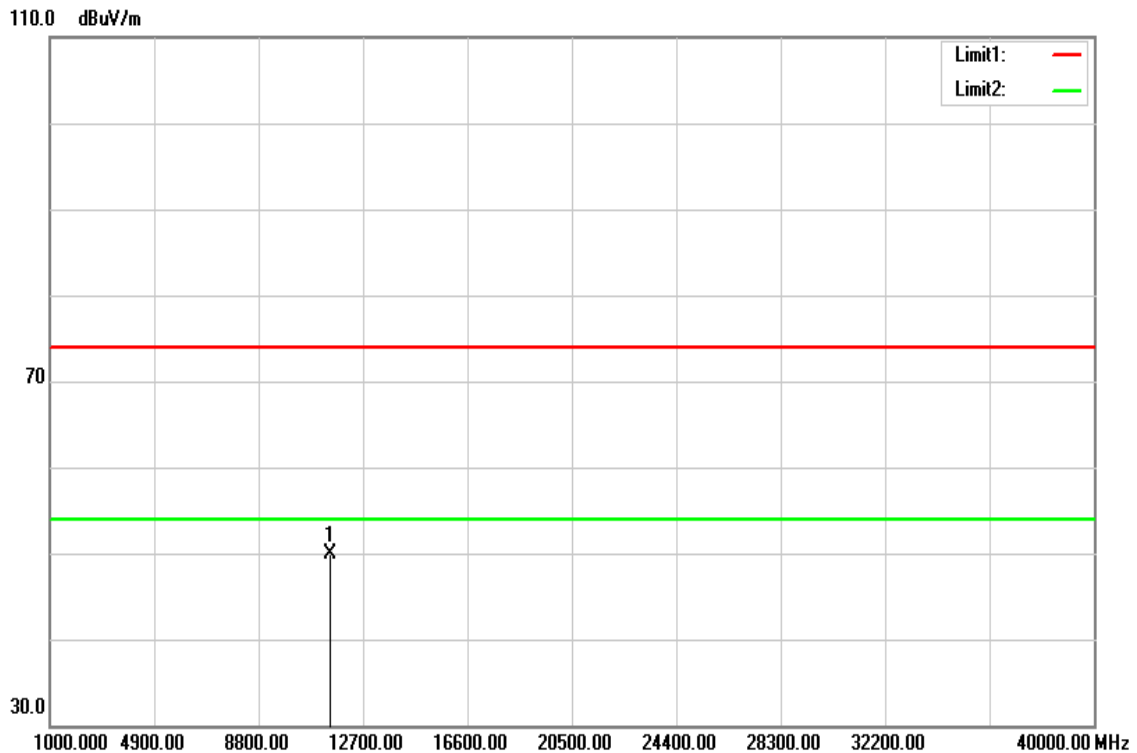


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11490.000	34.60	15.62	50.22	74.00	-23.78	peak
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11a Low CH	Temp/Hum	22.3(°C)/ 46%RH
Test Item	Harmonic	Test Date	November 9, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Peak		

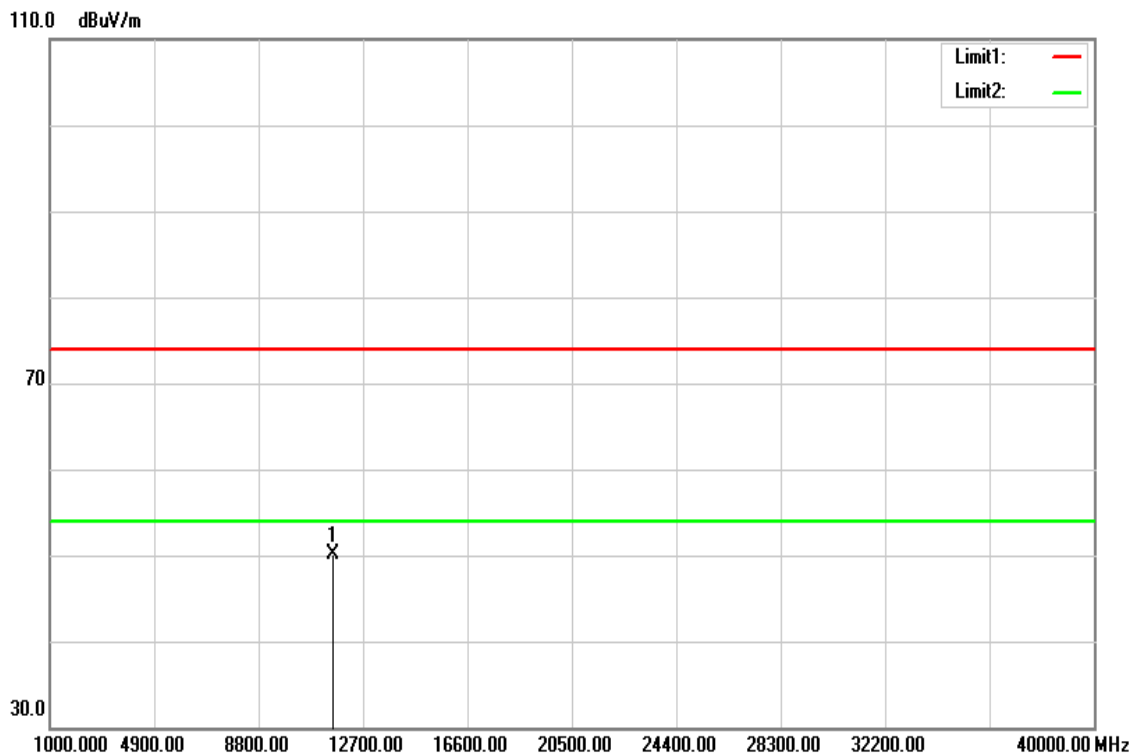


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11490.000	34.21	15.62	49.83	74.00	-24.17	peak
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11a Mid CH	Temp/Hum	22.3(°C)/ 46%RH
Test Item	Harmonic	Test Date	November 9, 2018
Polarize	Vertical	Test Engineer	Jerry Chuang
Detector	Peak		

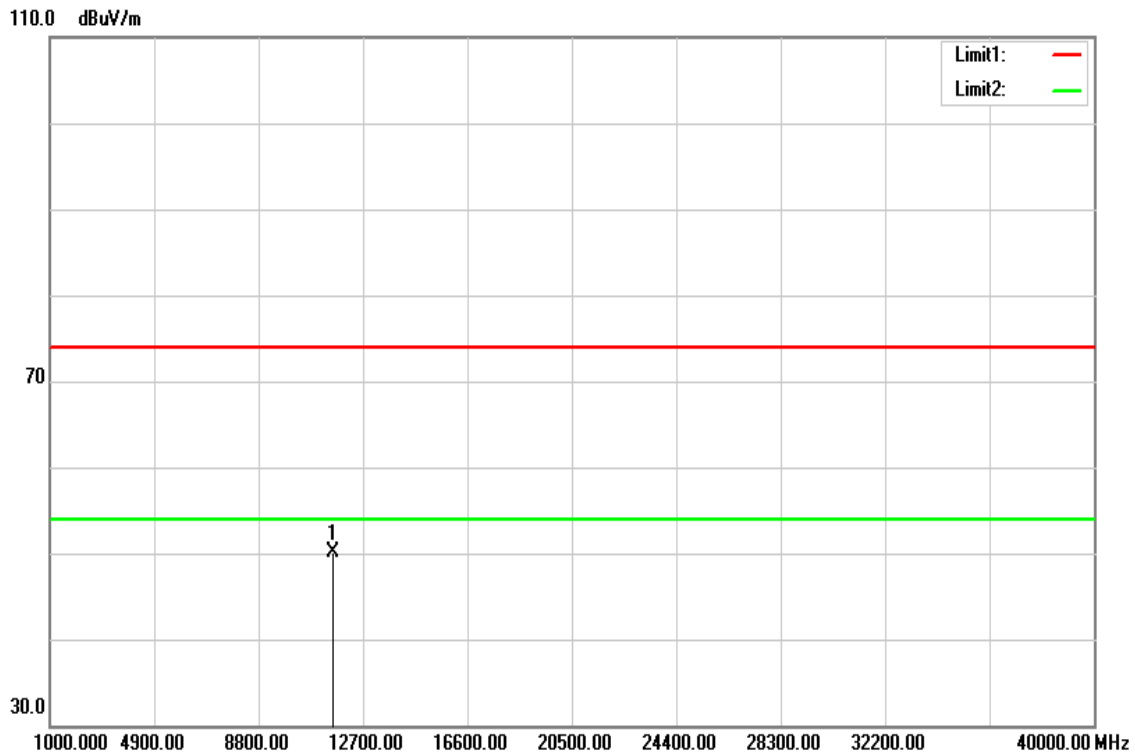


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11570.000	34.51	15.61	50.12	74.00	-23.88	peak
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11a Mid CH	Temp/Hum	22.3(°C)/ 46%RH
Test Item	Harmonic	Test Date	November 9, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Peak		

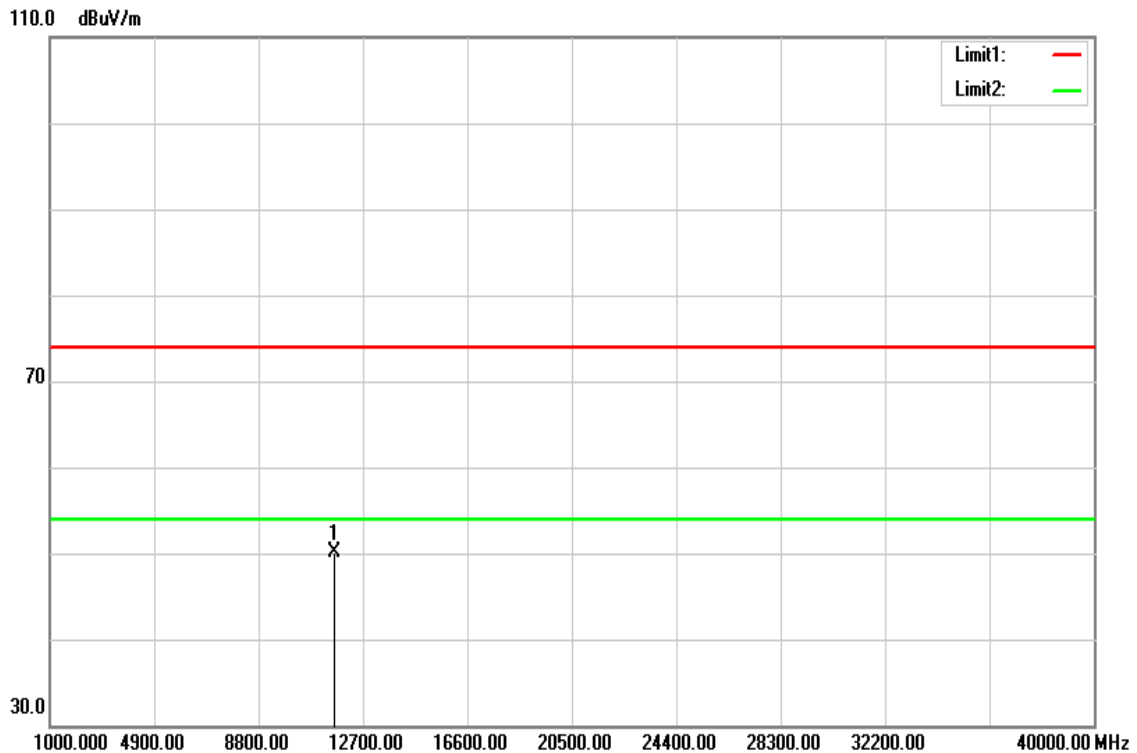


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11570.000	34.52	15.61	50.13	74.00	-23.87	peak
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11a High CH	Temp/Hum	22.3(°C)/ 46%RH
Test Item	Harmonic	Test Date	November 9, 2018
Polarize	Vertical	Test Engineer	Jerry Chuang
Detector	Peak		

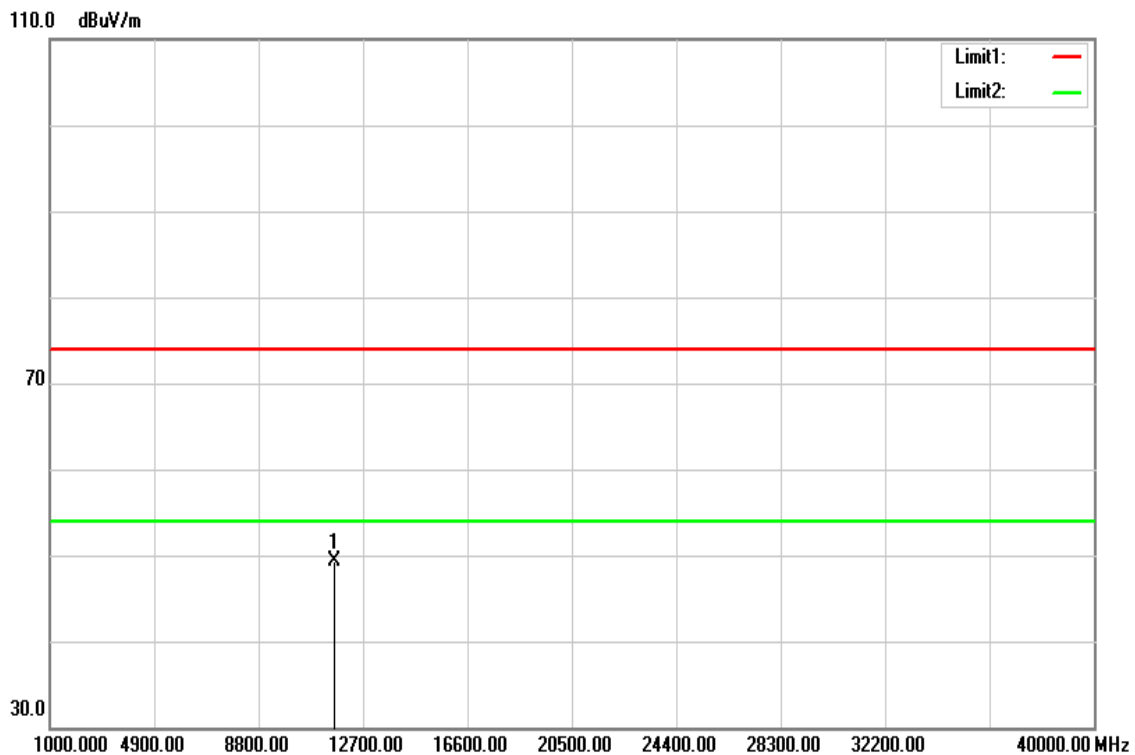


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11650.000	34.52	15.58	50.10	74.00	-23.90	peak
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11a High CH	Temp/Hum	22.3(°C)/ 46%RH
Test Item	Harmonic	Test Date	November 9, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Peak		

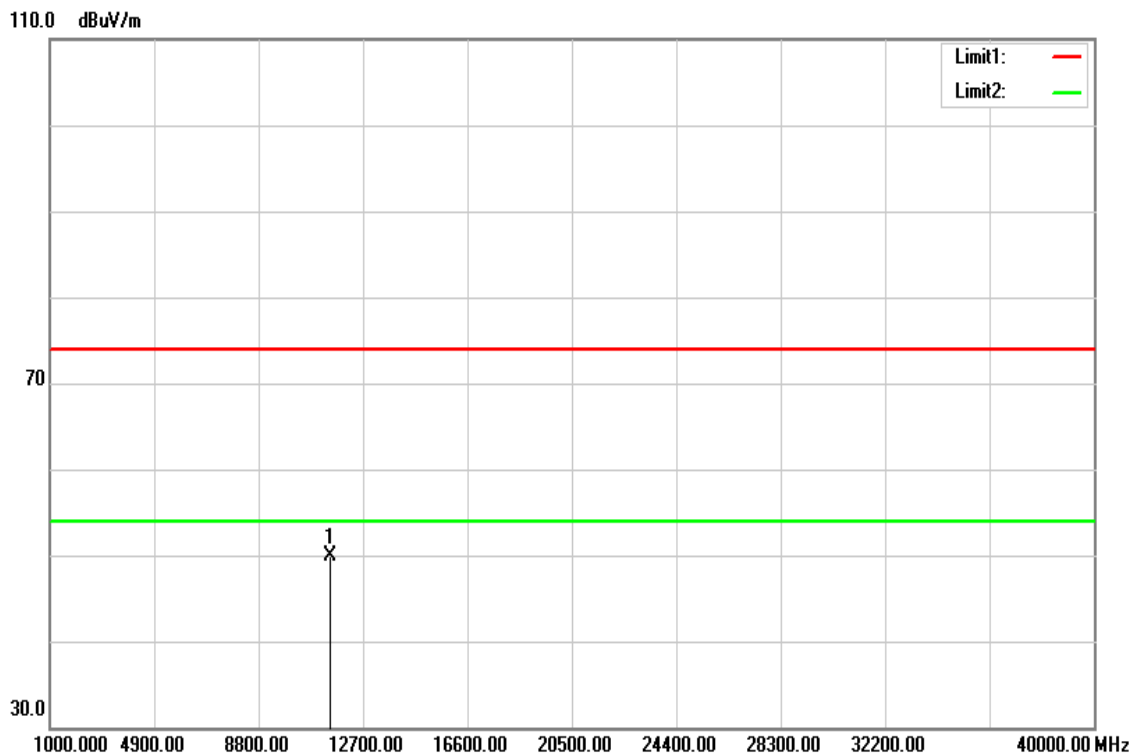


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11650.000	33.79	15.58	49.37	74.00	-24.63	peak
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT20 Low CH	Temp/Hum	22.3(°C)/ 46%RH
Test Item	Harmonic	Test Date	November 9, 2018
Polarize	Vertical	Test Engineer	Jerry Chuang
Detector	Peak		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11490.000	34.34	15.62	49.96	74.00	-24.04	peak
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT20 Low CH	Temp/Hum	22.3(°C)/ 46%RH
Test Item	Harmonic	Test Date	November 9, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Peak		

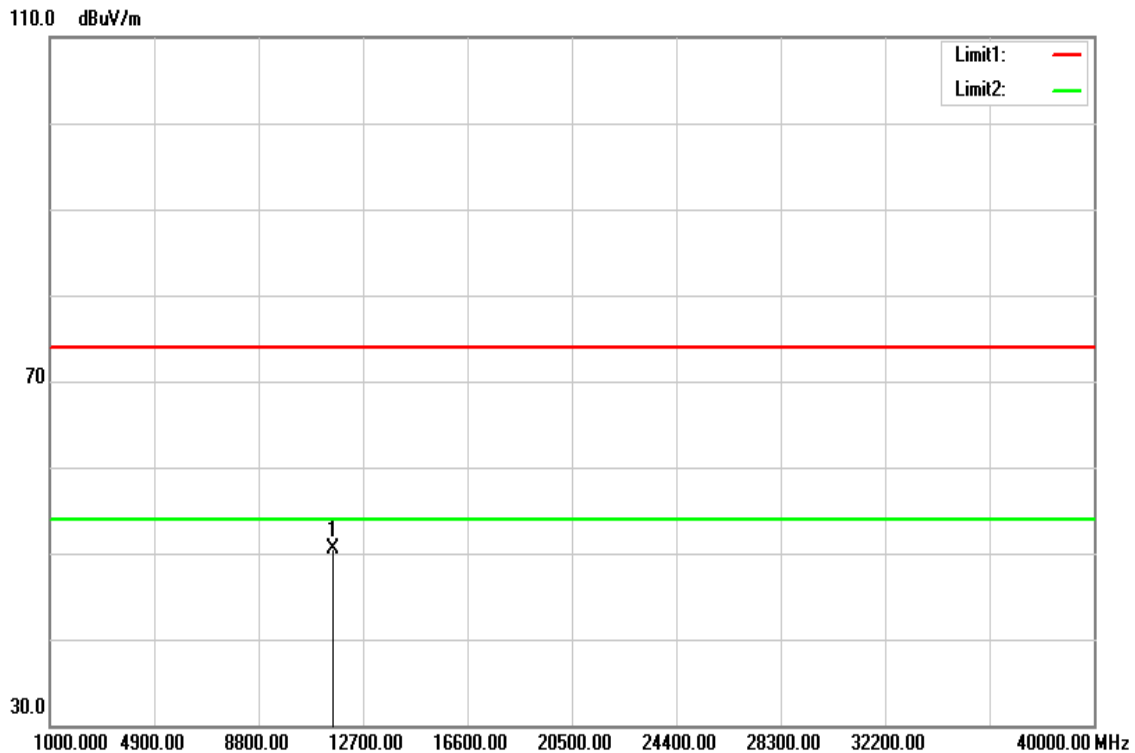


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11490.000	33.90	15.62	49.52	74.00	-24.48	peak
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT20 Mid CH	Temp/Hum	22.3(°C)/ 46%RH
Test Item	Harmonic	Test Date	November 9, 2018
Polarize	Vertical	Test Engineer	Jerry Chuang
Detector	Peak		

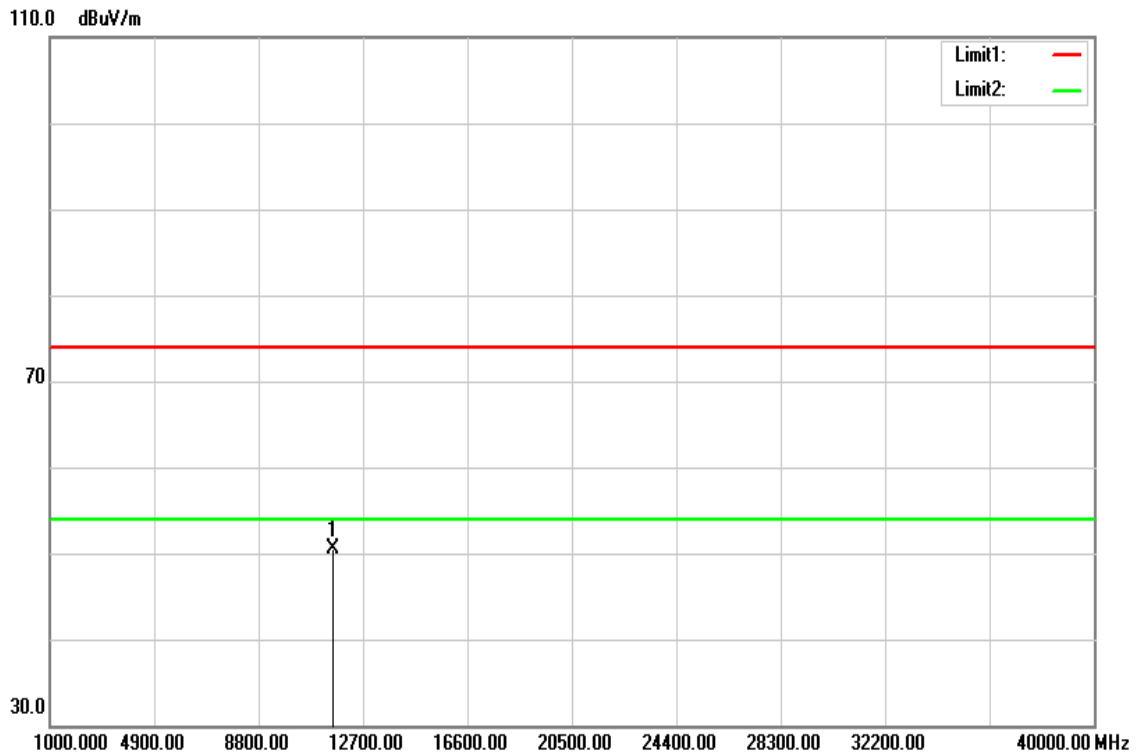


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11570.000	34.96	15.61	50.57	74.00	-23.43	peak
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT20 Mid CH	Temp/Hum	22.3(°C)/ 46%RH
Test Item	Harmonic	Test Date	November 9, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Peak		

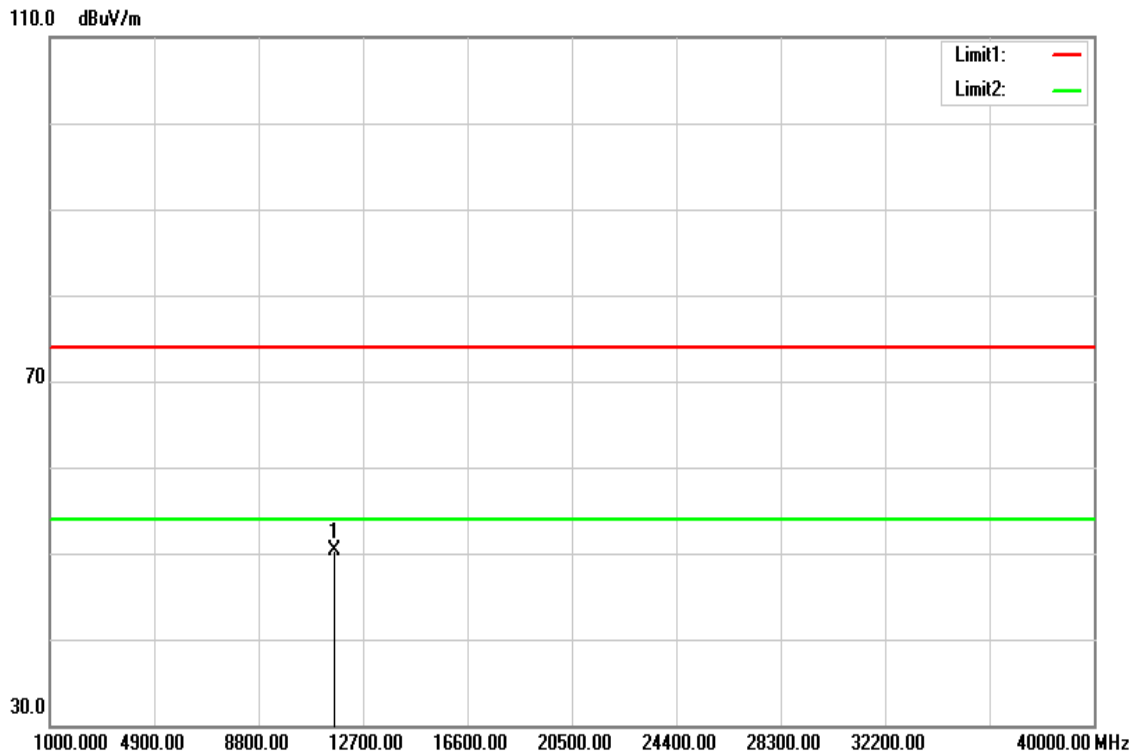


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11570.000	34.81	15.61	50.42	74.00	-23.58	peak
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT20 High CH	Temp/Hum	22.3(°C)/ 46%RH
Test Item	Harmonic	Test Date	November 9, 2018
Polarize	Vertical	Test Engineer	Jerry Chuang
Detector	Peak		

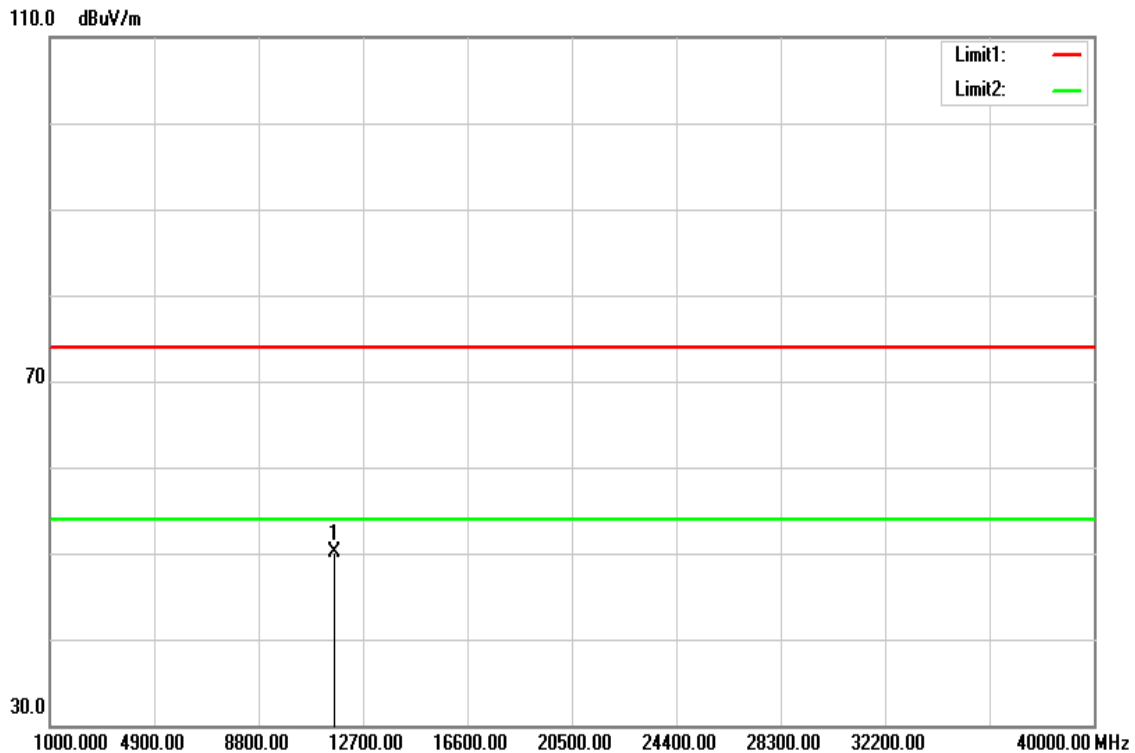


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11650.000	34.71	15.58	50.29	74.00	-23.71	peak
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT20 High CH	Temp/Hum	22.3(°C)/ 46%RH
Test Item	Harmonic	Test Date	November 9, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Peak		

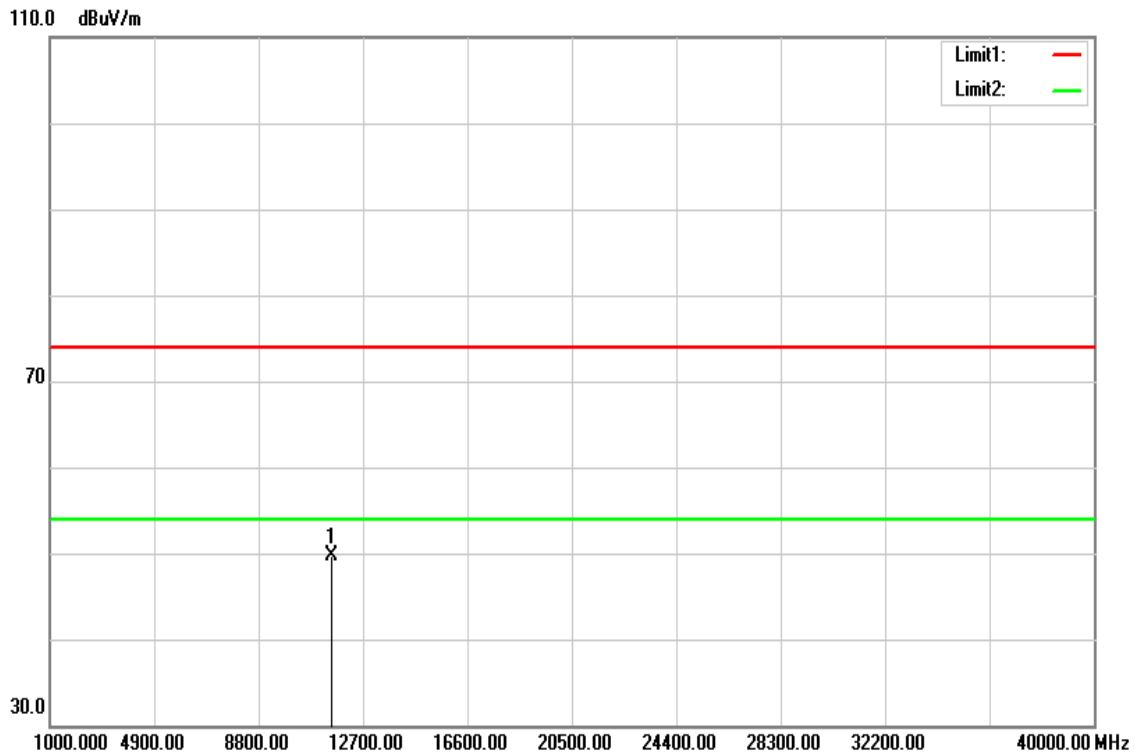


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11650.000	34.51	15.58	50.09	74.00	-23.91	peak
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT40 Low CH	Temp/Hum	22.3(°C)/ 46%RH
Test Item	Harmonic	Test Date	November 9, 2018
Polarize	Vertical	Test Engineer	Jerry Chuang
Detector	Peak		

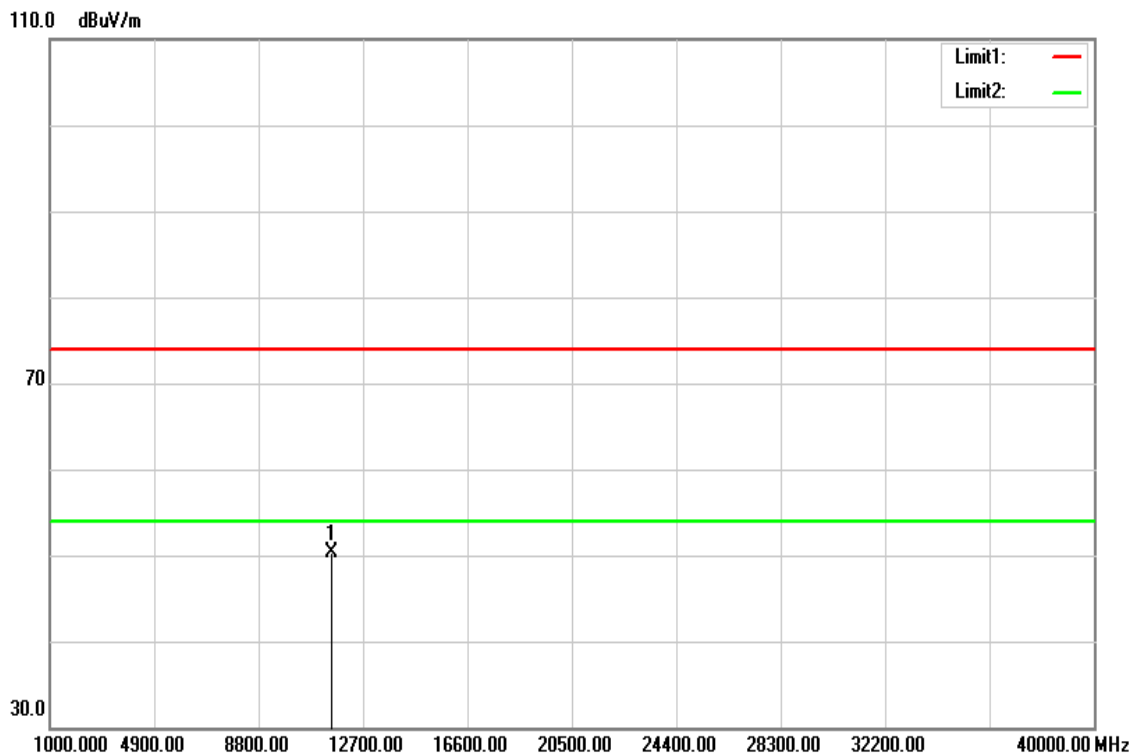


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11510.000	34.14	15.62	49.76	74.00	-24.24	peak
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT40 Low CH	Temp/Hum	22.3(°C)/ 46%RH
Test Item	Harmonic	Test Date	November 9, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Peak		

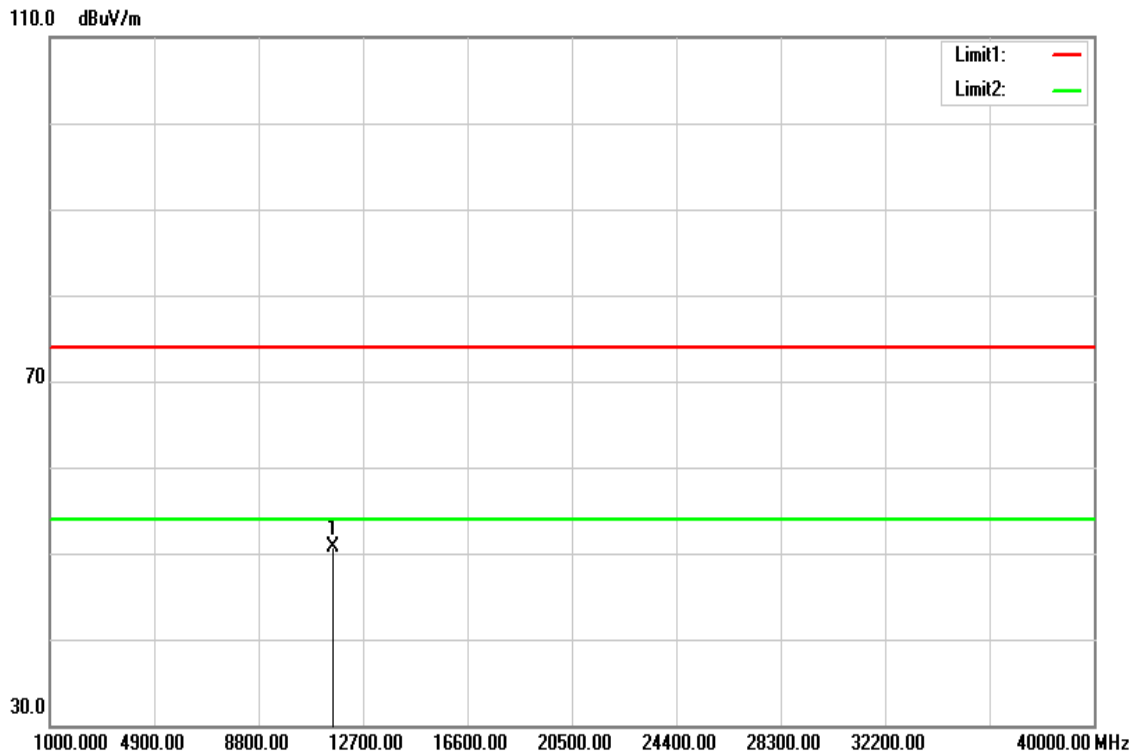


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11510.000	34.65	15.62	50.27	74.00	-23.73	peak
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT40 High CH	Temp/Hum	22.3(°C)/ 46%RH
Test Item	Harmonic	Test Date	November 7, 2018
Polarize	Vertical	Test Engineer	Jerry Chuang
Detector	Peak		

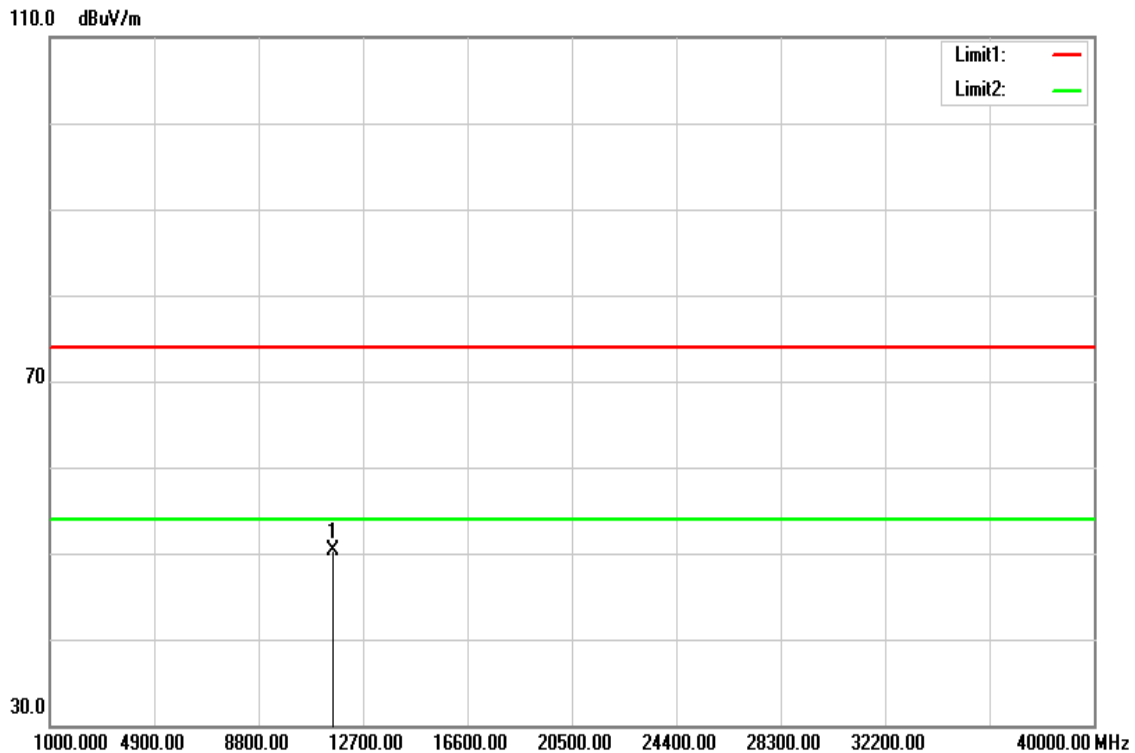


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11590.000	34.99	15.62	50.61	74.00	-23.39	peak
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT40 High CH	Temp/Hum	22.3(°C)/ 46%RH
Test Item	Harmonic	Test Date	November 9, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Peak		

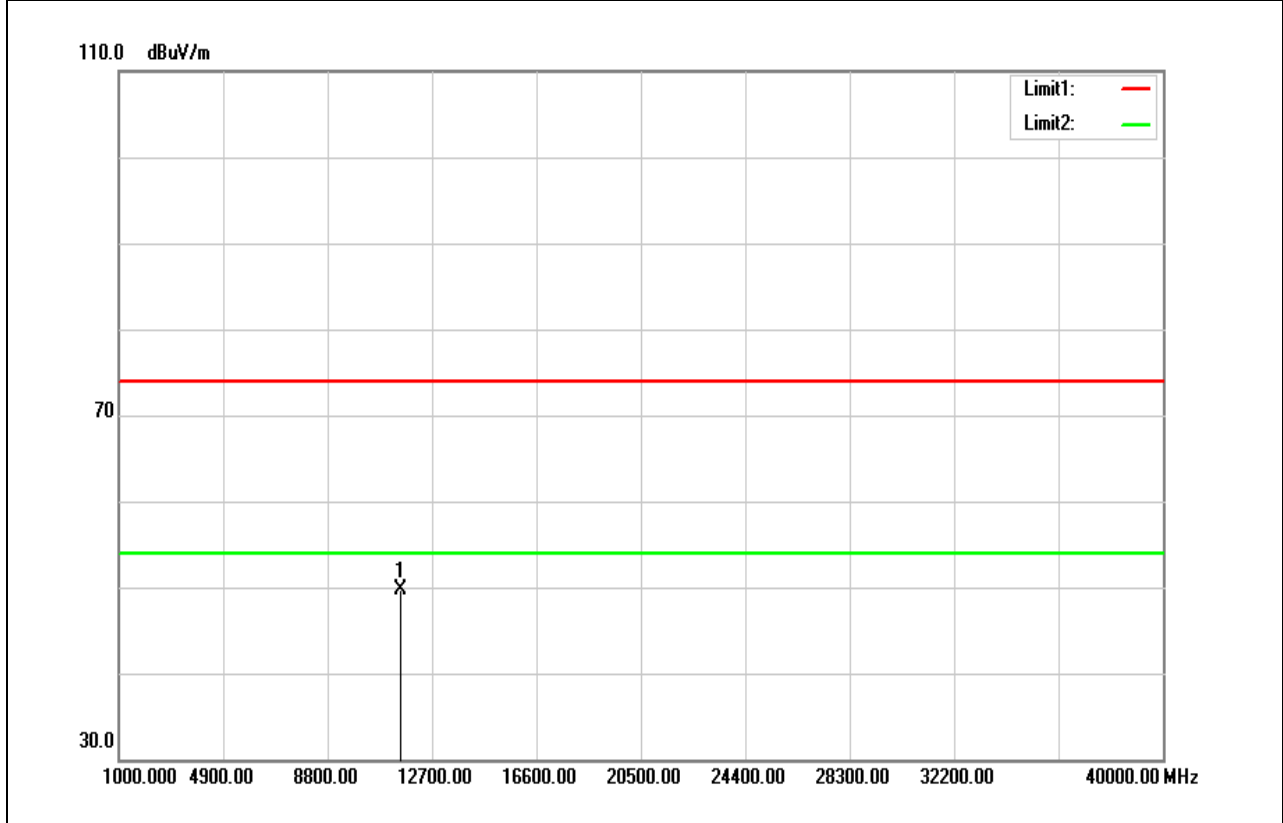


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11590.000	34.65	15.62	50.27	74.00	-23.73	peak
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11ac VHT80 5775MHz	Temp/Hum	22.3(°C)/ 46%RH
Test Item	Harmonic	Test Date	November 9, 2018
Polarize	Vertical	Test Engineer	Jerry Chuang
Detector	Peak		

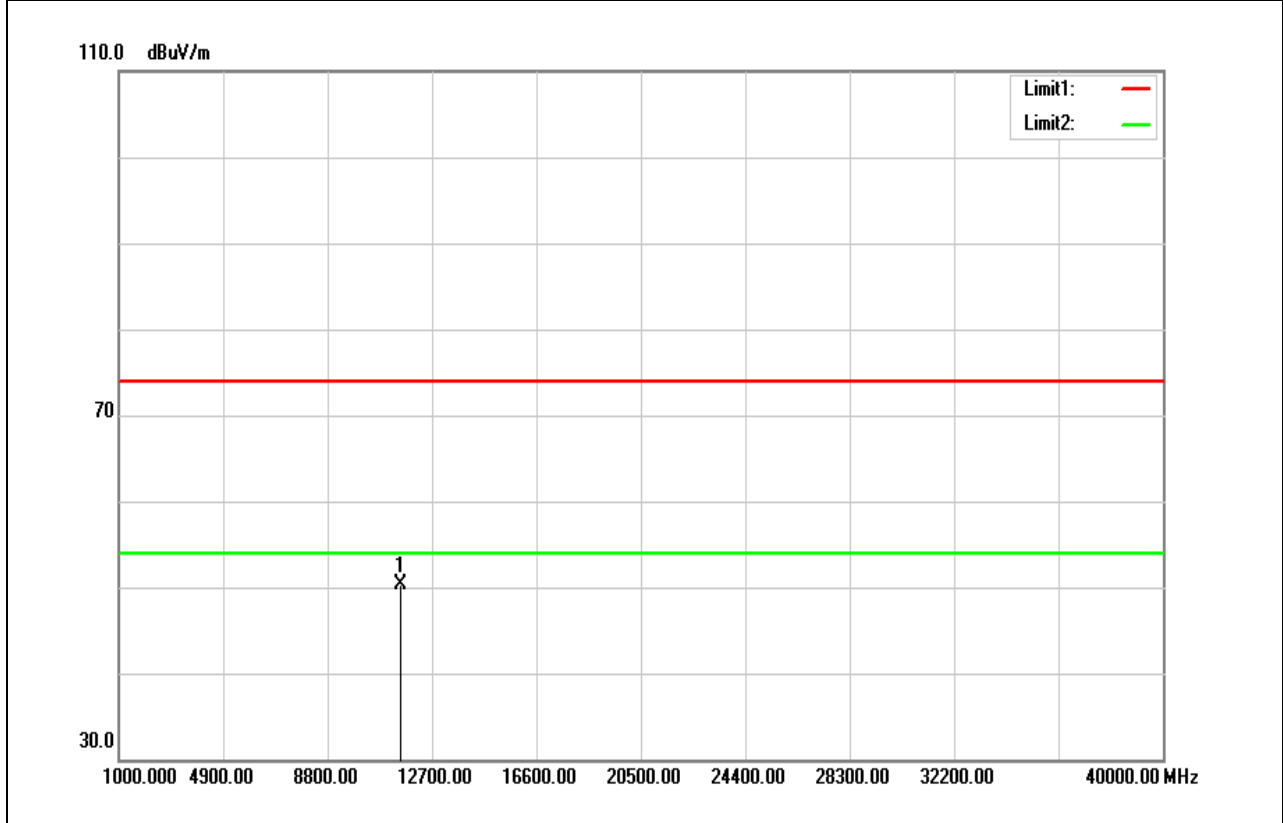


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11550.000	34.06	15.62	49.68	74.00	-24.32	peak
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11ac VHT80 5775MHz	Temp/Hum	22.3(°C)/ 46%RH
Test Item	Harmonic	Test Date	November 9, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Peak		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11550.000	34.62	15.62	50.24	74.00	-23.76	peak
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

- End of Test Report -