TEST REPORT

Applicant:	vivo Mobile Communication Co., Ltd.
Address:	No.1, vivo Road, Chang'an, Dongguan, Guangdong, China
Equipment Type:	Mobile Phone
Model Name:	V2419
Brand Name:	vivo
FCC ID:	2AUCY-V2419
Test Standard:	47 CFR Part 15 Subpart E (refer to section 3.1)
Sample Arrival Date:	Aug. 30, 2024
Test Date:	Sep. 04, 2024 - Sep. 14, 2024
Date of Issue:	Sep. 25, 2024

ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

Tested by: Yu Yingyuan **Checked by:** Ye Hongji **Approved by:** Sunny Zou

(Technical Director)

Revision History

Version	Issue Date	Revisions
Rev. 01	Sep. 25, 2024	Initial Issue

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1 GENERAL INFORMATION

1.1 Test Laboratory

Name	Shenzhen BALUN Technology Co., Ltd.
Address	Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Phone Number	+86 755 6685 0100

1.2 Test Location

Name	Shenzhen BALUN Technology Co., Ltd.
Location	☑ Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
	☐ 1/F, Building B, Ganghongji High-tech Intelligent Industrial Park, No. 1008, Songbai Road, Yangguang Community, Xili Sub-district, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Accreditation Certificate	The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1196.

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	vivo Mobile Communication Co., Ltd.
Address	No.1, vivo Road, Chang'an, Dongguan, Guangdong, China

2.2 Manufacturer Information

Manufacturer	vivo Mobile Communication Co., Ltd.
Address	No.1, vivo Road, Chang'an, Dongguan, Guangdong, China

2.3 General Description for Equipment under Test (EUT)

EUT Name	Mobile Phone
Model Name Under Test	V2419
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	MP_0.1
Software Version	PD2420F_EX_A_14.0.5.2.W30
Dimensions (Approx.)	165.66*76.03*8.24mm
Weight (Approx.)	198g
EUT ID	S17, S19
IMEI Number	S17: IMEI1:861819072007926
	S19: IMEI1:861819072008148

2.4 Technical Information

Network and Wireless connectivity	WIFI 802.11a, 802.11n(HT20/40) and 802.11ac(VHT20/40/80) U-NII-1/2A/2C/3

The requirement for the following technical information of the EUT was tested in this report:

Frequency Range	U-NII-1: 5150 MHz to 5250 MHz, U-NII-2A: 5250 MHz to 5350 MHz, U-NII-2C: 5470 MHz to 5725 MHz, U-NII-3: 5725 MHz to 5850 MHz
Product Type	☐ Mobile ☒ Portable ☐ Fix Location
Modulation technology	OFDM
Modulation Type	256QAM, 64QAM, 16QAM, BPSK, QPSK
Transfer Rate (Mbps) (Single RF path)	802.11a: 54/ 48/ 36/ 24/ 18/ 12/ 9/ 6 Mbps 802.11n: up to 150 Mbps 802.11ac: up to VHT-MCS9
Channel Bandwidth	802.11a: 20 MHz 802.11n: 20 MHz, 40 MHz 802.11ac: 20 MHz, 40 MHz, 80 MHz
Maximum Output Power	U-NII-1: 18.61 dBm U-NII-2A: 18.30 dBm U-NII-2C: 18.18 dBm U-NII-3: 17.85 dBm
Antenna System (eg., MIMO, Smart Antenna)	N/A
Categorization as Correlated or Completely Uncorrelated	N/A
Antenna Type	PIFA Antenna
Antenna Gain	U-NII-1: 5150 MHz to 5250 MHz: -0.1 dBi U-NII-2A: 5250 MHz to 5350 MHz: 0.2 dBi U-NII-2C: 5470 MHz to 5725 MHz: 0.7 dBi U-NII-3: 5725 MHz to 5850 MHz: 0.8 dBi
About the Product	The equipment is Mobile Phone, intended for used with information technology equipment.

2.5 Channel List

20 MHz		40 MHz		80 MHz	
Channel Number	Frequency (MHz)	Channel Number	Frequency (MHz)	Channel Number	Frequency (MHz)
36	**5180**	**38**	**5190**	**42**	**5210**
40	5200	**46**	**5230**	**58**	**5290**
44	**5220**	**54**	**5270**	**106**	**5530**
48	**5240**	**62**	**5310**	**122**	**5610**
52	**5260**	**102**	**5510**	**155**	**5775**
56	5280	110	5550		
60	**5300**	**118**	**5590**		
64	**5320**	126	5630		
100	**5500**	**134**	**5670**		
104	5520	**151**	**5755**		
108	5540	**159**	**5795**		
112	5560				
116	**5580**				
120	5600				
124	5620				
128	5640				
132	5660				
136	5680				
140	**5700**				
149	**5745**				
153	5765				
157	**5785**				
161	5805				
165	**5825**				

The Lowest frequency, the middle frequency and the highest frequency of channel were selected to perform the test, and the selected channel see below:

For 802.11a/n(HT20)/ac(VHT20)

U-NII-1 (5150 - 5250 MHz)			U-NII-2A (5250 - 5350 MHz)		
Channel Number	Channel	Frequency (MHz)	Channel Number	Channel	Frequency (MHz)
36	Low	5180	52	Low	5260
44	Mid	5220	60	Mid	5300
48	High	5240	64	High	5320

U-NII-2C (5470 - 5725 MHz)			U-NII-3 (5725 - 5850 MHz)		
Channel Number	Channel	Frequency (MHz)	Channel Number	Channel	Frequency (MHz)
100	Low	5500	149	Low	5745
116	Mid	5580	157	Mid	5785
140	High	5700	165	High	5825

For 802.11n(HT40)/ac(VHT40)

U-NII-1 (5150 - 5250 MHz)			U-NII-2A (5250 - 5350 MHz)		
Channel Number	Channel	Frequency (MHz)	Channel Number	Channel	Frequency (MHz)
38	Low	5190	54	Low	5270
46	High	5230	62	High	5310

U-NII-2C (5470 - 5725 MHz)			U-NII-3 (5725 - 5850 MHz)		
Channel Number	Channel	Frequency (MHz)	Channel Number	Channel	Frequency (MHz)
102	Low	5510	142	--	5710
118	Mid	5590	151	Low	5755
134	High	5670	159	High	5795

For 802.11ac(VHT80)

U-NII-1 (5150 - 5250 MHz)			U-NII-2A (5250 - 5350 MHz)		
Channel Number	Channel	Frequency (MHz)	Channel Number	Channel	Frequency (MHz)
42	Mid	5210	58	Mid	5290

U-NII-2C (5470 - 5725 MHz)			U-NII-3 (5725 - 5850 MHz)		
Channel Number	Channel	Frequency (MHz)	Channel Number	Channel	Frequency (MHz)
106	Low	5530	138	--	5690
122	High	5610	155	Mid	5775

Note: Preliminary tests were performed in different data rate in above table to find the worst radiated emission. The data rate shown in the table below is the worst-case rate with respect to the specific test item. Investigation has been done on all the possible configurations for searching the worst cases. The following table is a list of the test modes shown in this test report.

Test Items	Mode	Data Rate	Modulation Type	U-NII-1	U-NII-2A	U-NII-2C	U-NII-3
				Channel	Channel	Channel	Channel
RF Output Power	11a	6	BPSK	48/44/36	64/60/52	140/116/100	165/157/149
	11n(20 MHz)	6.5		48/44/36	64/60/52	140/116/100	165/157/149
	11n(40 MHz)	13.5		46/38	62/54	142/134/118/102	159/151/142
	11ac(20 MHz)	6.5		48/44/36	64/60/52	140/116/100	165/157/149
	11ac(40 MHz)	13.5		46/38	62/54	142/134/118/102	159/151/142
	11ac(80 MHz)	29.3		42	58	138/122/106	155/138
Emission Bandwidth & 99% Occupied Bandwidth	11a	6	BPSK	48/44/36	64/60/52	140/116/100	165/157/149
	11n(20 MHz)	6.5		48/44/36	64/60/52	140/116/100	165/157/149
	11n(40 MHz)	13.5		46/38	62/54	142/134/118/102	159/151/142
	11ac(20 MHz)	6.5		48/44/36	64/60/52	140/116/100	165/157/149
	11ac(40 MHz)	13.5		46/38	62/54	142/134/118/102	159/151/142
	11ac(80 MHz)	29.3		42	58	138/122/106	155/138
6 dB bandwidth	11a	6	BPSK	N/A	N/A	N/A	165/157/149
	11n(20 MHz)	6.5		N/A	N/A	N/A	165/157/149
	11n(40 MHz)	13.5		N/A	N/A	N/A	159/151/142
	11ac(20 MHz)	6.5		N/A	N/A	N/A	165/157/149
	11ac(40 MHz)	13.5		N/A	N/A	N/A	159/151/142
	11ac(80 MHz)	29.3		N/A	N/A	N/A	155/138
Power Spectral Density	11a	6	BPSK	48/44/36	64/60/52	140/116/100	165/157/149
	11n(20 MHz)	6.5		48/44/36	64/60/52	140/116/100	165/157/149
	11n(40 MHz)	13.5		46/38	62/54	142/134/118/102	159/151/142
	11ac(20 MHz)	6.5		48/44/36	64/60/52	/140/116/100	165/157/149
	11ac(40 MHz)	13.5		46/38	62/54	142/134/118/102	159/151/142
	11ac(80 MHz)	29.3		42	58	138/122/106	155/138
Radiated Spurious Emissions	11a	6	BPSK	48/44/36	64/60/52	140/116/100	165/157/149
	11n(20 MHz)	6.5		48/44/36	64/60/52	140/116/100	165/157/149
	11n(40 MHz)	13.5		46/38	62/54	142/134/118/102	159/151/142
	11ac(20 MHz)	6.5		48/44/36	64/60/52	140/116/100	165/157/149
	11ac(40 MHz)	13.5		46/38	62/54	142/134/118/102	159/151/142
	11ac(80 MHz)	29.3		42	58	138/122/106	155/138
Band Edge (Restricted-band)	11a	6	BPSK	48/36	64/52	140/100	165/149
	11n(20 MHz)	6.5		48/36	64/52	140/100	165/149
	11n(40 MHz)	13.5		46/38	62/54	142/134/102	159/151/142
	11ac(20 MHz)	6.5		48/36	64/52	140/100	165/149
	11ac(40 MHz)	13.5		46/38	62/54	142/134/102	159/151/142
	11ac(80 MHz)	29.3		42	58	138/122/106	155/138

3 SUMMARY OF TEST RESULTS

3.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 15 Subpart E	Unlicensed National Information Infrastructure Devices
2	KDB Publication 789033 D02v02r01	Guidelines for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices Part 15, Subpart E
3	ANSI C63.10-2013	American National Standard for Testing Unlicensed Wireless Devices

3.2 Test Verdict

No.	Description	FCC Part No.	Test Result	Verdict
1	Antenna Requirement	15.203	--	Pass[Note1]
2	RF Output Power	15.407(a)	ANNEX A.1	Pass
3	Emission Bandwidth & 99% Occupied Bandwidth	15.407(a)	ANNEX A.2	Pass
4	6 dB bandwidth	15.407(e)	ANNEX A.3	Pass
5	Power Spectral Density	15.407(a)	ANNEX A.4	Pass
6	Conducted Emission	15.207	ANNEX A.5	Pass
7	Radiated Spurious Emissions and Band Edge (Restricted-band)	15.407(b)	ANNEX A.6	Pass

Note 1: The EUT has a permanently and irreplaceable attached antenna, which complies with the requirement FCC 15.203.

Note 2: Under all normal operating conditions specified in the user manual, frequency stability can keep radiation within the operating frequency band.

4 GENERAL TEST CONFIGURATIONS

4.1 Test Environments

During the measurement, the normal environmental conditions were within the listed ranges:

Relative Humidity	51% to 59%	
Atmospheric Pressure	100 kPa to 102 kPa	
Temperature	NT (Normal Temperature)	+21.9℃ to +24.9℃
Working Voltage of the EUT	NV (Normal Voltage)	3.85 V

4.2 Test Equipment List

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	KEYSIGHT	N9020A	MY50330200	2024.05.08	2025.05.07
Spectrum Analyzer	KEYSIGHT	N9020A	MY50531259	2024.08.01	2025.07.31
Test Antenna-Horn	SCHWARZBECK	BBHA 9120D	2460	2024.05.16	2027.05.15
Test Antenna-Horn	A-INFO	LB-180400KF	J211060273	2024.06.15	2027.06.14
Anechoic Chamber	RAINFORD	9m*6m*6m	140	2024.07.28	2026.07.27
Amplifier	COM-MV	LSCX_LNA1-12G-01	7210214	2024.08.01	2025.07.31
Amplifier	COM-MV	XKu_LNA7-18G-01	7210209	2024.08.01	2025.07.31
Amplifier	COM-MV	KA LNA18 40G-01	18050001	2023.12.06	2024.12.05
EMI Receiver	ROHDE&SCHWARZ	ESRP	101036	2024.08.01	2025.07.31
Test Antenna-Loop	SCHWARZBECK	FMZB 1519	1519-037	2024.04.15	2027.04.14
Amplifier	COM-MV	ZT30-1000M	B2018054558	2023.12.05	2024.12.04
Anechoic Chamber	EMC Electronic Co., Ltd	20.10*11.60*7.35m	130	2024.07.13	2027.07.12
EMI Receiver	KEYSIGHT	N9038A	MY53220118	2024.08.01	2025.07.31
Test Antenna-Bi-Log	SCHWARZBECK	VULB 9163	9163-624	2024.07.06	2026.07.05
Amplifier	COM-MV	ZT30-1000M	B2017119082	2023.12.05	2024.12.04
Anechoic Chamber	RAINFORD	9m*6m*6m	101	2023.03.04	2026.03.03
EMI Receiver	KEYSIGHT	N9010B	MY57110309	2024.08.01	2025.07.31
LISN	SCHWARZBECK	NSLK 8127	8127-687	2024.05.08	2025.05.07
Shielded Enclosure	YiHeng Electronic Co., Ltd	3.5m*3.1m*2.8m	112	2022.02.19	2025.02.18

4.3 Test Software List

Description	Manufacturer	Software Version	Serial No.	Applicable test Setup
BL410R	BALUN	V2.1.1.488	N/A	The section 4.5.1
BL410E	BALUN	V22.930	N/A	The section 4.5.2&4.5.3&4.5.4&4.5.5

4.4 Measurement Uncertainty

The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2.

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

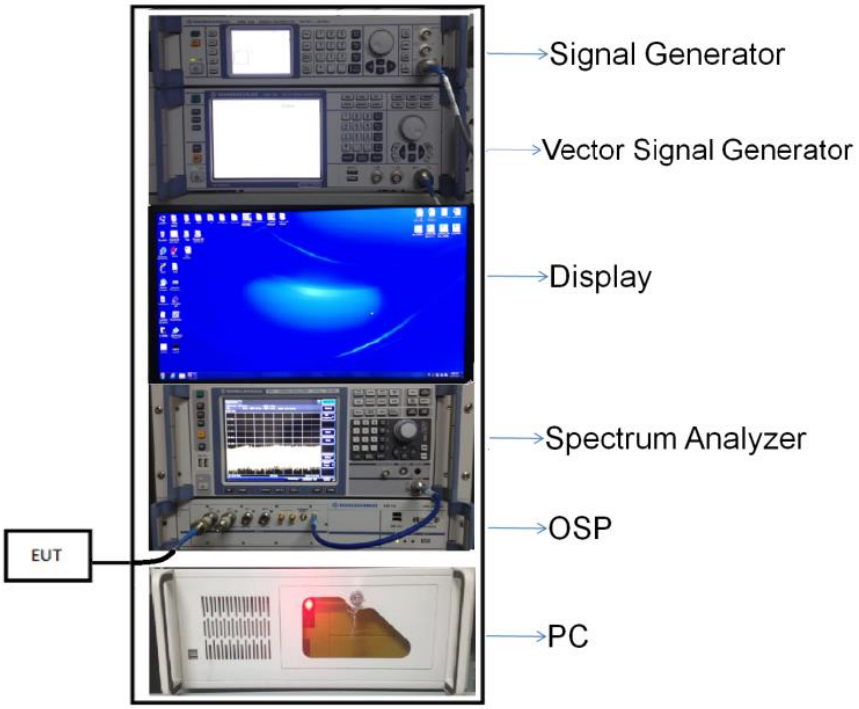
Parameters	Uncertainty
Occupied Channel Bandwidth	2.8%
RF output power, conducted	1.28 dB
Power Spectral Density, conducted	1.30 dB
Unwanted Emissions, conducted	1.84 dB
All emissions, radiated	5.36 dB
Temperature	0.8°C
Humidity	4%

4.5 Description of Test Setup

4.5.1 For Antenna Port Test

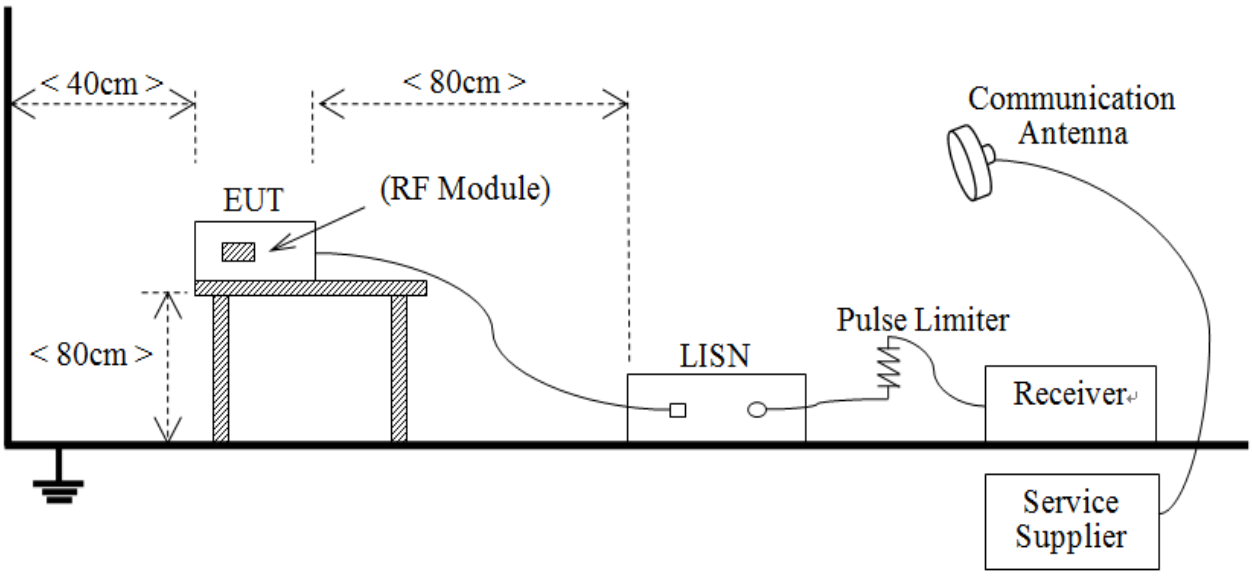
Conducted value (dBm) = Measurement value (dBm) + cable loss (dB)

For example: the measurement value is 10 dBm and the cable 0.5dBm used, then the final result of EUT:
Conducted value (dBm) = 10 dBm + 0.5 dB = 10.5 dBm



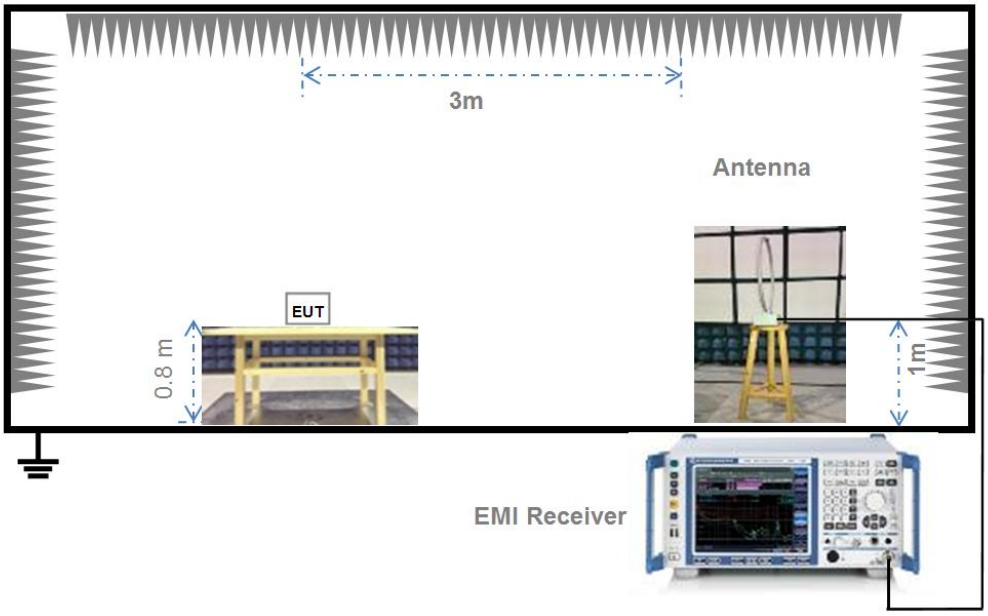
(Diagram 1)

4.5.2 For AC Power Supply Port Test



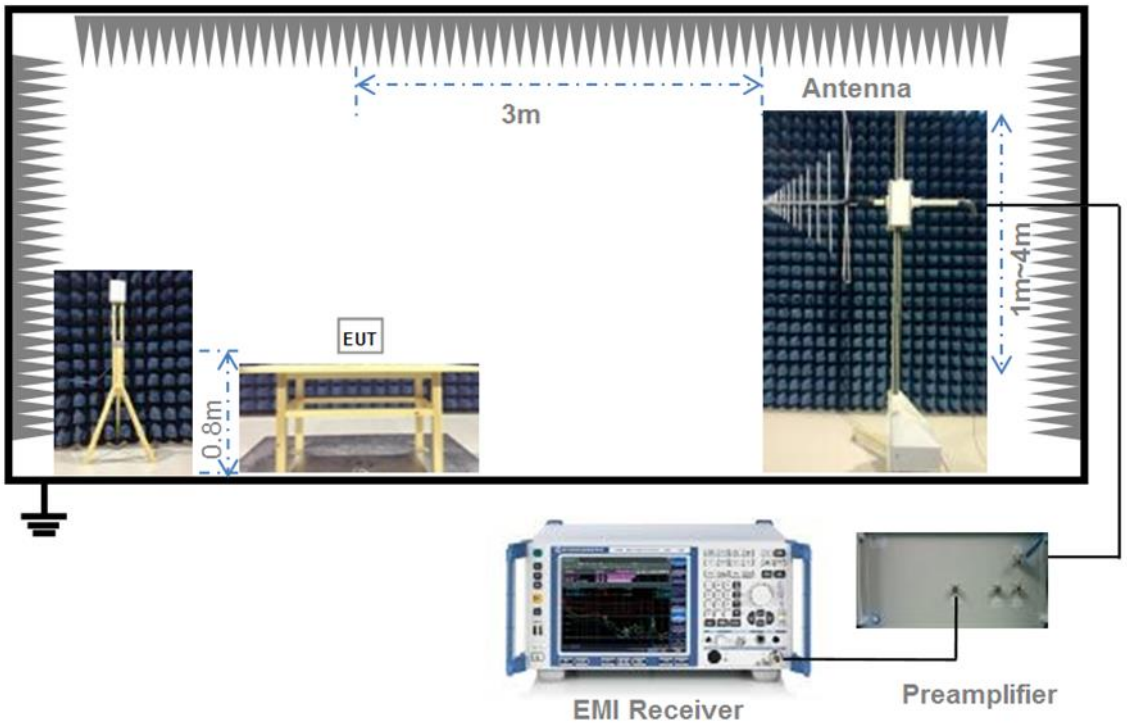
(Diagram 2)

4.5.3 For Radiated Test (Below 30 MHz)



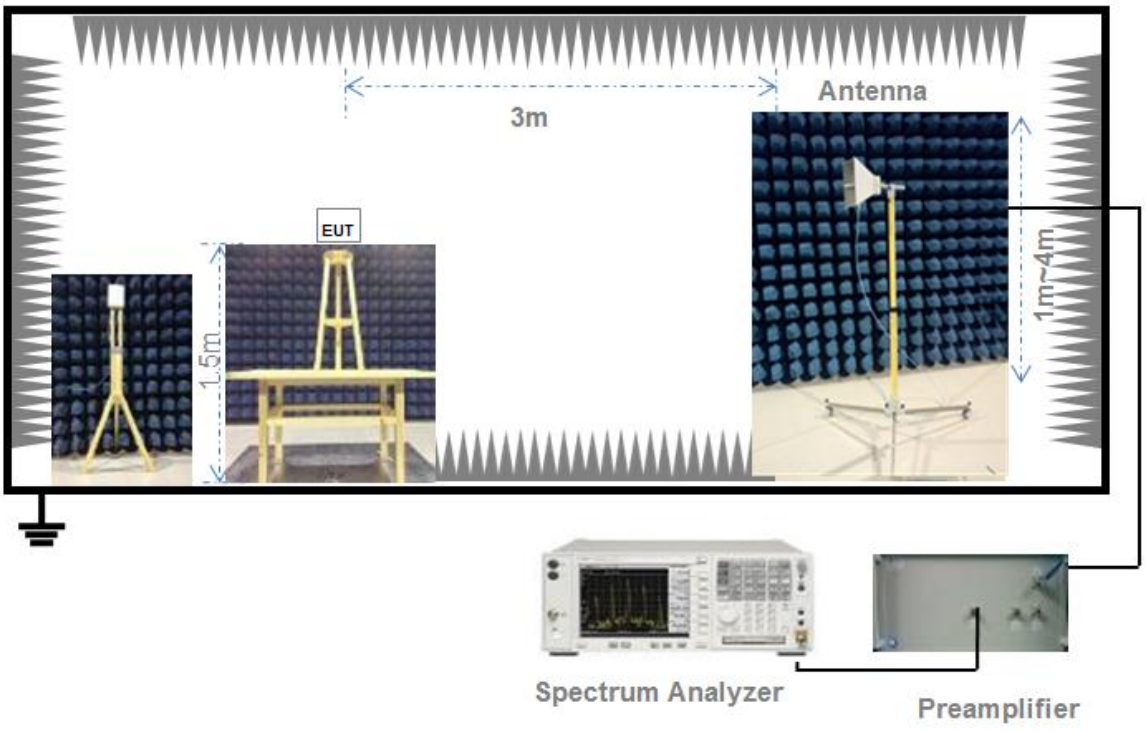
(Diagram 3)

4.5.4 For Radiated Test (30 MHz-1 GHz)



(Diagram 4)

4.5.5 For Radiated Test (Above 1 GHz)



(Diagram 5)

5 TEST ITEMS

5.1 RF Output Power

5.1.1 Test Limit

FCC §15.407(a)

The maximum conducted output power should not exceed:

Frequency Band (MHz)	Limit
5150-5250	250 mW
5250-5350	250 mW or 11 dBm + 10log B, whichever is less.
5470-5725	250 mW or 11 dBm + 10log B, whichever is less.
5725-5850	1 W
Note: Where “B” is the 26 dB emissions bandwidth in MHz.	

5.1.2 Test Setup

The section 4.5.1 (Diagram 1) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

5.1.3 Test Procedure

Maximum conducted (average) output power

a) Measurements may be performed using a wideband RF power meter with a thermocouple detector or equivalent if all of the conditions listed below are satisfied.

1) The EUT is configured to transmit continuously or to transmit with a constant duty cycle.

2) At all times when the EUT is transmitting, it shall be transmitting at its maximum power control level.

3) The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five.

b) If the transmitter does not transmit continuously, measure the duty cycle (x) of the transmitter output signal.

c) Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter.

d) Adjust the measurement in dBm by adding 10 log (1/x) where x is the duty cycle.

Measurements of duty cycle

The zero-span mode on a spectrum analyzer or EMI receiver if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the on and off times of the transmitted signal.

Set the center frequency of the instrument to the center frequency of the transmission.

Set RBW ≥ OBW if possible; otherwise, set RBW to the largest available value.

Set VBW ≥ RBW. Set detector = peak or average.

The zero-span measurement method shall not be used unless both RBW and VBW are > 50/T and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring duty cycle shall not be used if T ≤ 16.7 microseconds.)

The E.I.R.P used radiated test method. At a test site that has been validated using the procedures of ANSI C63.4 or the latest CISPR 16-1-4 for measurements above 1 GHz, so as to simulate a near free-space environment.

5.1.4 Test Result

Please refer to ANNEX A.1.

5.2 Emission Bandwidth and 6 dB Bandwidth

5.2.1 Limit

FCC §15.407(a)

Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

5.2.2 Test Setup

The test setup photo please refer to 4.5.1 (Diagram 1) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

5.2.3 Test Procedure

Emission bandwidth

1. Set RBW = approximately 1% of the emission bandwidth.

2. Set VBW ≥ 3*RBW,

3. Detector = Peak.

4. Trace mode = Max hold.

5. Measure the maximum width of the emission that is 26 dB down from the peak of the emission.

Occupied Bandwidth

1. Set Span = 1.5 times to 5.0 times the OBW

2. Set RBW = 1% to 5% of the OBW.

3. Set VBW ≥ 3*RBW, Detector = Peak.

4. Trace mode = Max hold.

5. Use the 99% power bandwidth function of the instrument.

6 dB bandwidth

1. Set RBW = 100 kHz, VBW = 300 kHz.

2. Detector = Peak.Trace mode = Max hold.

3. Allow the trace to stabilize.

4. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

5.2.4 Test Result

Please refer to ANNEX A.2 and ANNEX A.3.

5.3 Power Spectral density (PSD)

5.3.1 Limit

FCC §15.407(a)

The maximum power spectral density should not exceed:

Frequency Band (MHz)	Limit
5150-5250	11 dBm/MHz
5250-5350	11 dBm/MHz
5470-5725	11 dBm/MHz
5725-5850	30 dBm/500kHz

5.3.2 Test Setup

The section 4.5.1 (Diagram 1) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

5.3.3 Test Procedure

Set the spectrum analyzer or EMI receiver span to view the entire emission bandwidth.
1. Set RBW = 510 kHz/1 MHz, VBW ≥ 3*RBW, Sweep time = Auto, Detector = RMS.
2. Allow the sweeps to continue until the trace stabilizes.
3. Use the peak marker function to determine the maximum amplitude level.
4. The E.I.R.P spectral density used radiated test method. At a test site that has been validated using the procedures of ANSI C63.4 or the latest CISPR 16-1-4 for measurements above 1 GHz, so as to simulate a near free-space environment.

5.3.4 Test Result

Please refer to ANNEX A.4.

5.4 Conducted Emission

5.4.1 Limit

FCC §15.207

For an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency within the U-NII-150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50μH/50Ω line impedance stabilization network (LISN).

Frequency range (MHz)	Conducted Limit (dBμV)	
	Quai-peak	Average
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5	56	46
0.50 - 30	60	50

5.4.2 Test Setup

The section 4.5.2 (Diagram 2) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

5.4.3 Test Procedure

The maximum conducted interference is searched using Peak (PK), if the emission levels more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed. Refer to recorded points and plots below.

5.4.4 Test Result

Please refer to ANNEX A.5.

5.5 Radiated Spurious Emissions and Band Edge (Restricted-band)

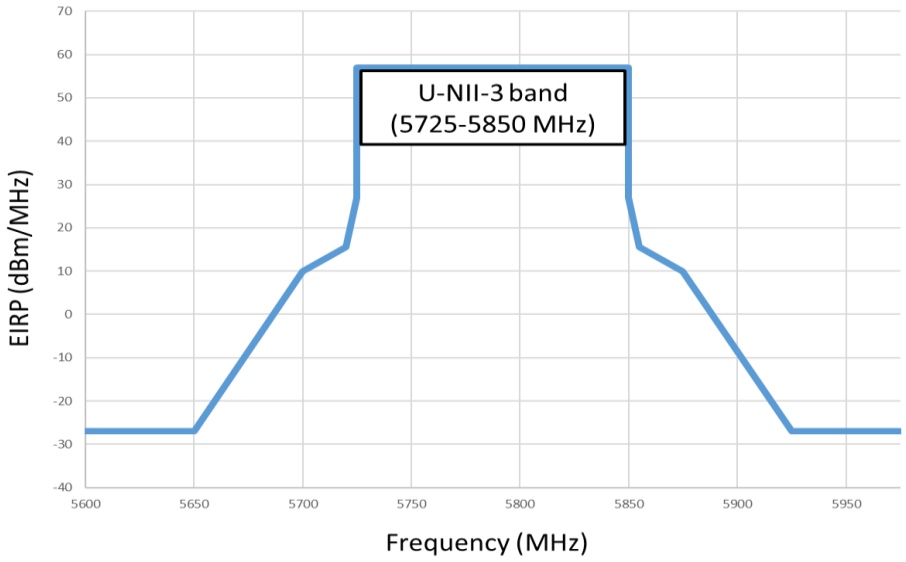
5.5.1 Limit

FCC §15.209 & 15.407(b)

Frequency (MHz)	Field Strength (μV/m)	Measurement Distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

Note [1]: The Limit for radiated test was performed according to FCC Part 15C

Note [2]: The tighter limit applies at the band edge.

Un-restricted band emissions	
Out Operating Band (MHz)	Limit
5150 - 5250	e.i.r.p. -27 dBm (68.2 dBuV/m@3m)
5250 - 5350	e.i.r.p. -27 dBm (68.2 dBuV/m@3m)
5470 - 5725	e.i.r.p. -27 dBm (68.2 dBuV/m@3m)
5725 - 5850	All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge. 

Note: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength.

5.5.2 Test Setup

The section 4.5.3-4.5.5 (Diagram 3 - Diagram 5) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

5.5.3 Test Procedure

Since the emission limits are specified in terms of radiated field strength levels, measurements performed to demonstrate compliance have traditionally relied on a radiated test configuration. Radiated measurements remain the principal method for demonstrating compliance to the specified limits; however antenna-port conducted measurements are also now acceptable to demonstrate compliance (see below for details). When radiated measurements are utilized, test site requirements and procedures for maximizing and measuring radiated emissions that are described in ANSI C63.10 shall be followed.

Antenna-port conducted measurements may also be used as an alternative to radiated measurements for demonstrating compliance in the restricted frequency bands. If conducted measurements are performed, then proper impedance matching must be ensured and an additional radiated test for cabinet/case spurious emissions is required.

General Procedure for conducted measurements in restricted bands

a) Measure the conducted output power (in dBm) using the detector specified (see guidance regarding measurement procedures for determining quasi-peak, peak, and average conducted output power, respectively).

b) Add the appropriate maximum ground reflection factor to the EIRP level (6 dB for frequencies ≤ 30 MHz, 4.7 dB for frequencies between 30 MHz and 1000 MHz, inclusive and 0 dB for frequencies > 1000 MHz).

c) For devices with multiple antenna-ports, measure the power of each individual chain and sum the EIRP of all chains in linear terms (e.g., Watts, mW).

d) Convert the resultant EIRP level to an equivalent electric field strength using the following relationship:

E = EIRP – 20log D + 104.8

where:

E = electric field strength in dBμV/m,

EIRP = equivalent isotropic radiated power in dBm

D = specified measurement distance in meters.

e) Compare the resultant electric field strength level to the applicable limit.

f) Perform radiated spurious emission test.

Quasi-Peak measurement procedure

The specifications for measurements using the CISPR quasi-peak detector can be found in Publication 16 of the International Special Committee on Radio Frequency Interference (CISPR) of the International Electrotechnical Commission.

As an alternative to CISPR quasi-peak measurement, compliance can be demonstrated to the applicable

emission limits using a peak detector.

Peak power measurement procedure

Peak emission levels are measured by setting the instrument as follows:

a) RBW = as specified in Table 1.

b) VBW ≥ 3 x RBW.

c) Detector = Peak.

d) Sweep time = auto.

e) Trace mode = max hold.

f) Allow sweeps to continue until the trace stabilizes. (Note that the required measurement time may be longer for low duty cycle applications).

Table 1—RBW as a function of frequency

Frequency	RBW
9-150 kHz	200-300 Hz
0.15-30 MHz	9-10 kHz
30-1000 MHz	100-120 kHz
> 1000 MHz	1 MHz

If the peak-detected amplitude can be shown to comply with the average limit, then it is not necessary to perform a separate average measurement.

Trace averaging across on and off times of the EUT transmissions followed by duty cycle correction

If continuous transmission of the EUT (i.e., duty cycle ≥ 98 percent) cannot be achieved and the duty cycle is constant (i.e., duty cycle variations are less than ± 2 percent), then the following procedure shall be used:

a) The EUT shall be configured to operate at the maximum achievable duty cycle.

b) Measure the duty cycle, x, of the transmitter output signal as described in section 6.0.

c) RBW = 1 MHz (unless otherwise specified).

d) VBW ≥ 3 x RBW.

e) Detector = RMS, if span/(# of points in sweep) ≤ (RBW/2). Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak.

f) Averaging type = power (i.e., RMS).

1) As an alternative, the detector and averaging type may be set for linear voltage averaging.

2) Some instruments require linear display mode in order to use linear voltage averaging. Log or dB averaging shall not be used.

g) Sweep time = auto.

h) Perform a trace average of at least 100 traces.

i) A correction factor shall be added to the measurement results prior to comparing to the emission limit in order to compute the emission level that would have been measured had the test been performed at 100 percent duty cycle. The correction factor is computed as follows:

1) If power averaging (RMS) mode was used in step f), then the applicable correction factor is 10 log(1/x), where x is the duty cycle.

2) If linear voltage averaging mode was used in step f), then the applicable correction factor is 20 log(1/x), where x is the duty cycle.

3) If a specific emission is demonstrated to be continuous (≥ 98 percent duty cycle) rather than turning on and off with the transmit cycle, then no duty cycle correction is required for that emission.

NOTE: Reduction of the measured emission amplitude levels to account for operational duty factor is not permitted. Compliance is based on emission levels occurring during transmission - not on an average across on and off times of the transmitter.

Determining the applicable transmit antenna gain

A conducted power measurement will determine the maximum output power associated with a restricted band emission; however, in order to determine the associated EIRP level, the gain of the transmitting antenna (in dBi) must be added to the measured output power (in dBm).

Since the out-of-band characteristics of the EUT transmit antenna will often be unknown, the use of a conservative antenna gain value is necessary. Thus, when determining the EIRP based on the measured conducted power, the upper bound on antenna gain for a device with a single RF output shall be selected as the maximum in-band gain of the antenna across all operating bands, or 2 dBi, whichever is greater. However, for devices that operate in multiple frequency bands while using the same transmit antenna, the highest gain of the antenna within the operating band nearest in frequency to the restricted band emission being measured may be used in lieu of the overall highest gain when the emission is at a frequency that is within 20 percent of the nearest band edge frequency, but in no case shall a value less than 2 dBi be used.

See KDB 662911 for guidance on calculating the additional array gain term when determining the effective antenna gain for a EUT with multiple outputs occupying the same or overlapping frequency ranges in the same band.

Radiated spurious emission test

An additional consideration when performing conducted measurements of restricted band emissions is that unwanted emissions radiating from the EUT cabinet, control circuits, power leads, or intermediate circuit elements will likely go undetected in a conducted measurement configuration. To address this concern, a radiated test shall be performed to ensure that emissions emanating from the EUT cabinet (rather than the antenna port) also comply with the applicable limits.

For these cabinet radiated spurious emission measurements the EUT transmit antenna may be replaced with a termination matching the nominal impedance of the antenna. Procedures for performing radiated measurements are specified in ANSI C63.10. All detected emissions shall comply with the applicable limits.

The measurement frequency range is from 30 MHz to the 10th harmonic of the fundamental frequency. The Turn Table is actuated to turn from 0° to 360°, and both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. Mid channels on all channel bandwidth verified. Only the worst RB size/offset presented.

The power of the EUT transmitting frequency should be ignored.

All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured
RBW = 1 MHz for f ≥ 1 GHz, 100 kHz for f < 1 GHz
VBW ≥ RBW
Sweep = auto
Detector function = peak
Trace = max hold

5.5.4 Test Result

Please refer to ANNEX A.6.

ANNEX A TEST RESULT

A.1 RF Output Power

Note [1]: For FCC standard, if transmitting antennas of directional gain greater than 6 dBi are used, all band maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Duty Cycle

Test Mode	On Time (ms)	On+Off time (ms)	Duty Cycle
11a	1.39	1.53	90.74%
11n (HT20)	1.17	1.32	88.91%
11n (HT40)	0.59	0.74	79.34%
11ac (VHT20)	1.18	1.34	88.61%
11ac (VHT40)	0.59	0.74	79.54%
11ac (VHT80)	0.30	0.44	67.40%

Test Data

Conducted Power

U-NII-1 (5150 - 5250 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH36	18.61	72.61	250	Pass
11a	CH44	18.30	67.61	250	Pass
11a	CH48	18.15	65.31	250	Pass
11n (HT20)	CH36	16.60	45.71	250	Pass
11n (HT20)	CH44	17.47	55.85	250	Pass
11n (HT20)	CH48	17.36	54.45	250	Pass
11n (HT40)	CH38	16.36	43.25	250	Pass
11n (HT40)	CH46	16.02	39.99	250	Pass
11ac (VHT20)	CH36	17.02	50.35	250	Pass
11ac (VHT20)	CH44	16.72	46.99	250	Pass
11ac (VHT20)	CH48	16.63	46.03	250	Pass
11ac (VHT40)	CH38	16.44	44.06	250	Pass
11ac (VHT40)	CH46	15.95	39.36	250	Pass
11ac (VHT80)	CH42	12.77	18.92	250	Pass

U-NII-2A (5250 - 5350 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH52	18.30	67.61	412	Pass
11a	CH60	17.85	60.95	384	Pass
11a	CH64	17.67	58.48	382	Pass
11n (HT20)	CH52	17.10	51.29	378	Pass
11n (HT20)	CH60	17.05	50.70	362	Pass
11n (HT20)	CH64	16.90	48.98	382	Pass
11n (HT40)	CH54	16.02	39.99	651	Pass
11n (HT40)	CH62	15.44	34.99	665	Pass
11ac (VHT20)	CH52	16.86	48.53	389	Pass
11ac (VHT20)	CH60	16.32	42.85	394	Pass
11ac (VHT20)	CH64	16.13	41.02	386	Pass
11ac (VHT40)	CH54	16.00	44.06	700	Pass
11ac (VHT40)	CH62	15.47	39.36	682	Pass
11ac (VHT80)	CH58	12.72	18.71	1086	Pass

U-NII-2C (5470 - 5725 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH100	17.70	58.88	385	Pass
11a	CH116	17.87	61.24	395	Pass
11a	CH140	18.18	65.77	447	Pass
11n (HT20)	CH100	16.69	46.67	363	Pass
11n (HT20)	CH116	17.10	51.29	369	Pass
11n (HT20)	CH140	17.43	55.34	405	Pass
11n (HT40)	CH102	9.99	9.98	748	Pass
11n (HT40)	CH118	15.22	33.27	664	Pass
11n (HT40)	CH134	16.74	47.21	709	Pass
11ac (VHT20)	CH100	15.92	39.08	390	Pass
11ac (VHT20)	CH116	16.65	46.24	378	Pass
11ac (VHT20)	CH140	16.79	47.75	407	Pass
11ac (VHT40)	CH102	10.82	39.81	687	Pass
11ac (VHT40)	CH118	15.44	35.24	709	Pass
11ac (VHT40)	CH134	16.85	48.42	819	Pass
11ac (VHT80)	CH106	12.72	18.71	1092	Pass
11ac (VHT80)	CH122	12.59	18.16	1116	Pass

U-NII-3 (5725 - 5850 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH149	17.85	60.95	1000	Pass
11a	CH157	17.78	59.98	1000	Pass
11a	CH165	17.81	60.39	1000	Pass
11n (HT20)	CH149	17.22	52.72	1000	Pass
11n (HT20)	CH157	17.01	50.23	1000	Pass
11n (HT20)	CH165	16.26	42.27	1000	Pass
11n (HT40)	CH151	15.87	38.64	1000	Pass
11n (HT40)	CH159	15.51	35.56	1000	Pass
11ac (VHT20)	CH149	16.51	44.77	1000	Pass
11ac (VHT20)	CH157	16.23	41.98	1000	Pass
11ac (VHT20)	CH165	16.66	46.34	1000	Pass
11ac (VHT40)	CH151	16.02	39.99	1000	Pass
11ac (VHT40)	CH159	15.64	36.64	1000	Pass
11ac (VHT80)	CH155	12.69	18.58	1000	Pass

A.2 Emission Bandwidth & 99% Bandwidth

Note: Test plots please refer to the document “Annex No.: BL-SZ2481209-604 Data Part 1.pdf”.

Test Data

U-NII-1 (5150 - 5250 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH36	32.03	17.23
11a	CH44	35.10	17.15
11a	CH48	31.61	17.04
11n (HT20)	CH36	30.29	17.78
11n (HT20)	CH44	28.76	17.78
11n (HT20)	CH48	28.85	17.76
11n (HT40)	CH38	52.96	36.24
11n (HT40)	CH46	50.66	36.27
11ac (VHT20)	CH36	30.98	17.75
11ac (VHT20)	CH44	31.45	17.75
11ac (VHT20)	CH48	30.91	17.75
11ac (VHT40)	CH38	60.56	36.33
11ac (VHT40)	CH46	54.13	36.26
11ac (VHT80)	CH42	87.50	75.58

U-NII-2A (5250 - 5350 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH52	32.69	17.22
11a	CH60	30.52	16.99
11a	CH64	30.38	16.93
11n (HT20)	CH52	30.06	17.81
11n (HT20)	CH60	28.74	17.80
11n (HT20)	CH64	30.32	17.79
11n (HT40)	CH54	51.72	36.27
11n (HT40)	CH62	52.82	36.27
11ac (VHT20)	CH52	30.89	17.80
11ac (VHT20)	CH60	31.27	17.79
11ac (VHT20)	CH64	30.64	17.78
11ac (VHT40)	CH54	55.60	36.28
11ac (VHT40)	CH62	54.14	36.27
11ac (VHT80)	CH58	86.24	75.47

U-NII-2C (5470 - 5725 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH100	30.62	16.94
11a	CH116	31.37	17.11
11a	CH140	35.52	17.88
11n (HT20)	CH100	28.82	17.79
11n (HT20)	CH116	29.29	17.80
11n (HT20)	CH140	32.17	17.86
11n (HT40)	CH102	59.38	36.53
11n (HT40)	CH118	52.78	36.23
11n (HT40)	CH134	56.28	36.29
11ac (VHT20)	CH100	30.98	17.78
11ac (VHT20)	CH116	30.05	17.78
11ac (VHT20)	CH140	32.33	17.83
11ac (VHT40)	CH102	54.61	36.49
11ac (VHT40)	CH118	56.30	36.30
11ac (VHT40)	CH134	65.03	36.39
11ac (VHT80)	CH106	86.73	75.46
11ac (VHT80)	CH122	88.65	75.65

U-NII-3 (5725 - 5850 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH149	30.35	17.82
11a	CH157	28.96	17.80
11a	CH165	30.41	17.76
11n (HT20)	CH149	32.21	17.80
11n (HT20)	CH157	30.48	17.80
11n (HT20)	CH165	28.86	17.79
11n (HT40)	CH151	52.01	36.22
11n (HT40)	CH159	52.03	36.16
11ac (VHT20)	CH149	31.76	17.83
11ac (VHT20)	CH157	30.67	17.80
11ac (VHT20)	CH165	29.19	17.76
11ac (VHT40)	CH151	56.40	36.26
11ac (VHT40)	CH159	54.17	36.24
11ac (VHT80)	CH155	85.04	75.40

A.3 6 dB Bandwidth

Note: Test plots please refer to the document “Annex No.: BL-SZ2481209-604 Data Part 2.pdf”.

Test Data

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	6 dB Bandwidth (MHz)	Limit (kHz)	Verdict
11a	CH149	17.40	500.00	Pass
11a	CH157	17.30	500.00	Pass
11a	CH165	17.30	500.00	Pass
11n (HT20)	CH149	17.30	500.00	Pass
11n (HT20)	CH157	17.40	500.00	Pass
11n (HT20)	CH165	17.30	500.00	Pass
11n (HT40)	CH151	35.50	500.00	Pass
11n (HT40)	CH159	35.60	500.00	Pass
11ac (VHT20)	CH149	17.30	500.00	Pass
11ac (VHT20)	CH157	17.20	500.00	Pass
11ac (VHT20)	CH165	17.30	500.00	Pass
11ac (VHT40)	CH151	35.70	500.00	Pass
11ac (VHT40)	CH159	35.60	500.00	Pass
11ac (VHT80)	CH155	75.50	500.00	Pass

A.4 Power Spectral Density

Note [1]: Test plots please refer to the document “Annex No.: BL-SZ2481209-604 Data Part 3.pdf”.

Test Data

U-NII-1 (5150 - 5250 MHz)				
Mode	Channel	PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
11a	CH36	6.86	11.00	Pass
11a	CH44	6.88	11.00	Pass
11a	CH48	6.80	11.00	Pass
11n (HT20)	CH36	3.09	11.00	Pass
11n (HT20)	CH44	2.94	11.00	Pass
11n (HT20)	CH48	3.05	11.00	Pass
11n (HT40)	CH38	-0.29	11.00	Pass
11n (HT40)	CH46	-0.27	11.00	Pass
11ac (VHT20)	CH36	3.20	11.00	Pass
11ac (VHT20)	CH44	2.95	11.00	Pass
11ac (VHT20)	CH48	2.91	11.00	Pass
11ac (VHT40)	CH38	0.11	11.00	Pass
11ac (VHT40)	CH46	-0.43	11.00	Pass
11ac (VHT80)	CH42	-6.66	11.00	Pass

U-NII-2A (5250 - 5350 MHz)				
Mode	Channel	PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
11a	CH52	6.98	11.00	Pass
11a	CH60	6.45	11.00	Pass
11a	CH64	6.21	11.00	Pass
11n (HT20)	CH52	3.40	11.00	Pass
11n (HT20)	CH60	2.73	11.00	Pass
11n (HT20)	CH64	2.26	11.00	Pass
11n (HT40)	CH54	-0.35	11.00	Pass
11n (HT40)	CH62	-1.16	11.00	Pass
11ac (VHT20)	CH52	3.37	11.00	Pass
11ac (VHT20)	CH60	2.63	11.00	Pass
11ac (VHT20)	CH64	2.35	11.00	Pass
11ac (VHT40)	CH54	-0.51	11.00	Pass
11ac (VHT40)	CH62	-0.84	11.00	Pass
11ac (VHT80)	CH58	-7.09	11.00	Pass

U-NII-2C (5470 - 5725 MHz)				
Mode	Channel	PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
11a	CH100	6.17	11.00	Pass
11a	CH116	6.07	11.00	Pass
11a	CH140	6.43	11.00	Pass
11n (HT20)	CH100	1.46	11.00	Pass
11n (HT20)	CH116	1.52	11.00	Pass
11n (HT20)	CH140	3.22	11.00	Pass
11n (HT40)	CH102	-4.14	11.00	Pass
11n (HT40)	CH118	-2.38	11.00	Pass
11n (HT40)	CH134	-0.42	11.00	Pass
11ac (VHT20)	CH100	1.38	11.00	Pass
11ac (VHT20)	CH116	1.43	11.00	Pass
11ac (VHT20)	CH140	3.16	11.00	Pass
11ac (VHT40)	CH102	-3.45	11.00	Pass
11ac (VHT40)	CH118	-2.19	11.00	Pass
11ac (VHT40)	CH134	-1.63	11.00	Pass
11ac (VHT80)	CH106	-7.81	11.00	Pass
11ac (VHT80)	CH122	-8.15	11.00	Pass

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	PSD (dBm/500kHz)	Limit (dBm/500kHz)	Verdict
11a	CH149	0.82	30.00	Pass
11a	CH157	0.57	30.00	Pass
11a	CH165	-0.25	30.00	Pass
11n (HT20)	CH149	-0.69	30.00	Pass
11n (HT20)	CH157	-0.24	30.00	Pass
11n (HT20)	CH165	-0.67	30.00	Pass
11n (HT40)	CH151	-2.43	30.00	Pass
11n (HT40)	CH159	-2.60	30.00	Pass
11ac (VHT20)	CH149	0.92	30.00	Pass
11ac (VHT20)	CH157	0.79	30.00	Pass
11ac (VHT20)	CH165	-0.17	30.00	Pass
11ac (VHT40)	CH151	-3.49	30.00	Pass
11ac (VHT40)	CH159	-3.08	30.00	Pass
11ac (VHT80)	CH155	-9.35	30.00	Pass

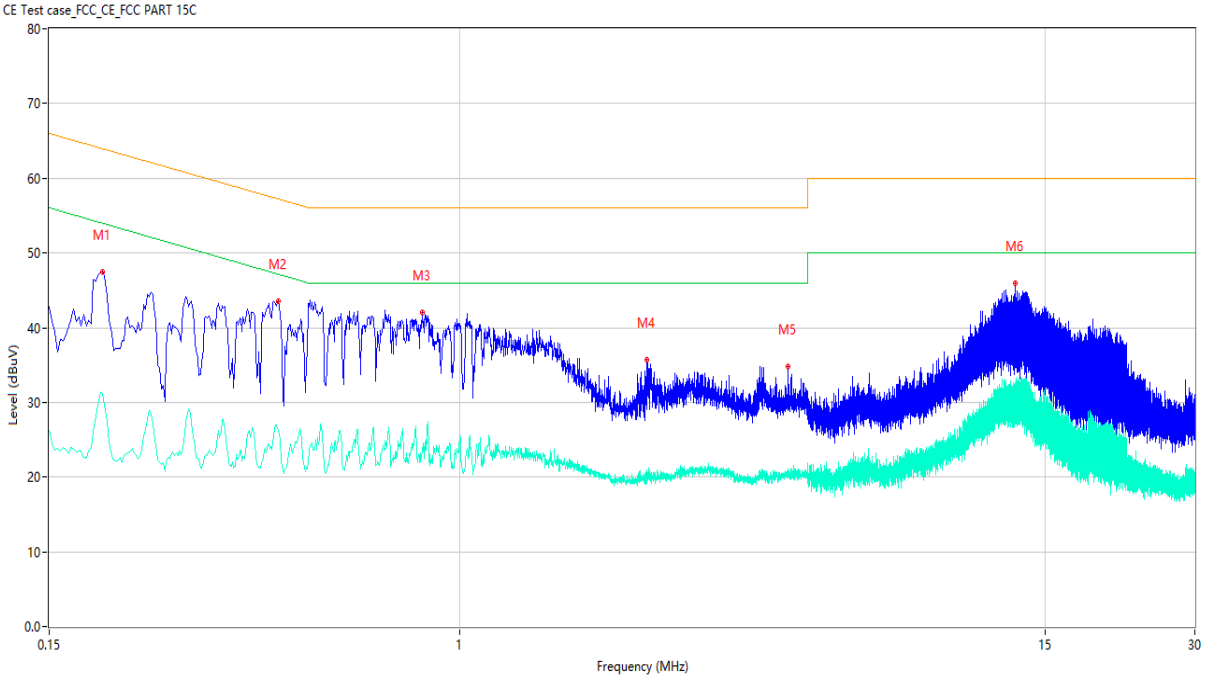
A.5 Conducted Emissions

Note [1]: The EUT is working in the Normal link mode. All modes have been tested and normal link mode is worst.

Note [2]: Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 60 Hz and 240 VAC, 50 Hz) for which the device is capable of operation. So, The configuration 120 VAC, 60 Hz and 240 VAC, 50 Hz were tested respectively, but only the worst configuration (120 VAC, 60 Hz) shown here.

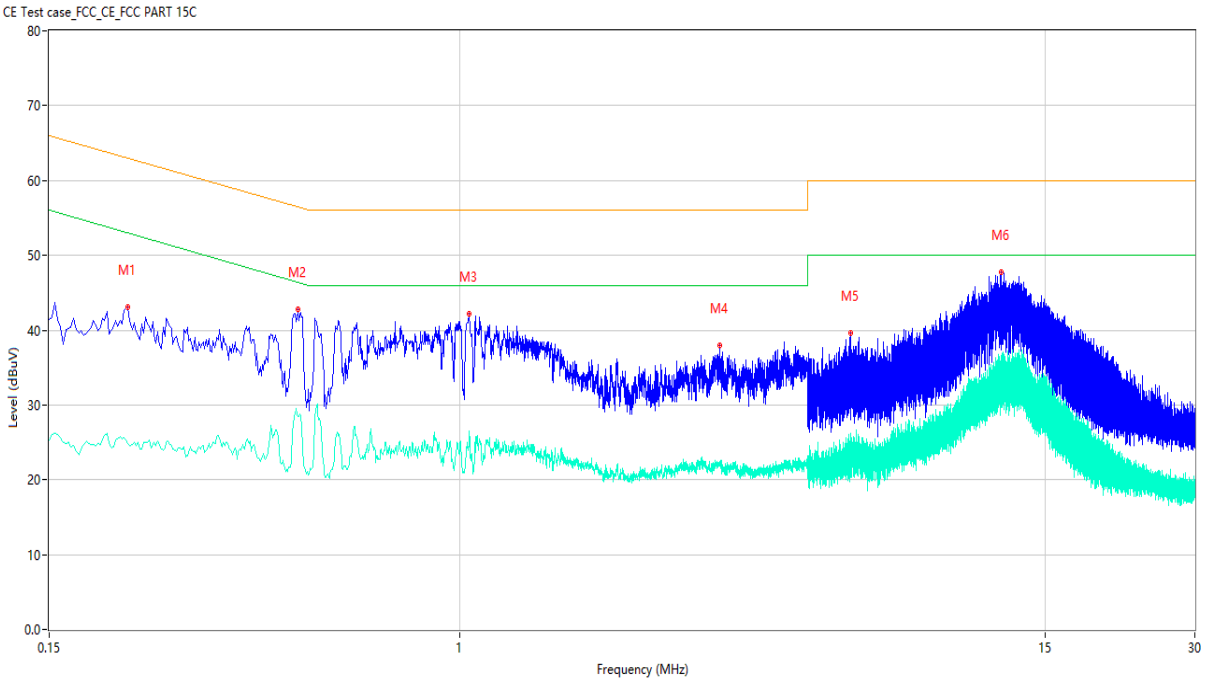
Test Data and Plots

PHASE L



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.192	47.45	9.75	63.95	16.50	Peak	L	Pass
1**	0.192	31.14	9.75	53.95	22.81	AV	L	Pass
2	0.432	43.57	9.74	57.21	13.64	Peak	L	Pass
2**	0.432	26.26	9.74	47.21	20.95	AV	L	Pass
3	0.842	42.07	9.71	56.00	13.93	Peak	L	Pass
3**	0.842	23.37	9.71	46.00	22.63	AV	L	Pass
4	2.384	35.75	9.68	56.00	20.25	Peak	L	Pass
4**	2.384	19.97	9.68	46.00	26.03	AV	L	Pass
5	4.580	34.73	9.64	56.00	21.27	Peak	L	Pass
5**	4.580	20.87	9.64	46.00	25.13	AV	L	Pass
6	13.066	45.90	9.34	60.00	14.10	Peak	L	Pass
6**	13.066	32.68	9.34	50.00	17.32	AV	L	Pass

PHASE N



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.216	43.03	9.76	62.97	19.94	Peak	N	Pass
1**	0.216	24.86	9.76	52.97	28.11	AV	N	Pass
2	0.474	42.76	9.80	56.44	13.68	Peak	N	Pass
2**	0.474	28.46	9.80	46.44	17.98	AV	N	Pass
3	1.044	42.11	9.86	56.00	13.89	Peak	N	Pass
3**	1.044	24.76	9.86	46.00	21.24	AV	N	Pass
4	3.336	37.95	9.84	56.00	18.05	Peak	N	Pass
4**	3.336	21.90	9.84	46.00	24.10	AV	N	Pass
5	6.096	39.61	9.81	60.00	20.39	Peak	N	Pass
5**	6.096	26.17	9.81	50.00	23.83	AV	N	Pass
6	12.252	47.74	9.63	60.00	12.26	Peak	N	Pass
6**	12.252	36.46	9.63	50.00	13.54	AV	N	Pass

A.6 Radiated Spurious Emissions and Band Edge (Restricted-band)

Note [1]: The symbol of "--" in the table which means not application.

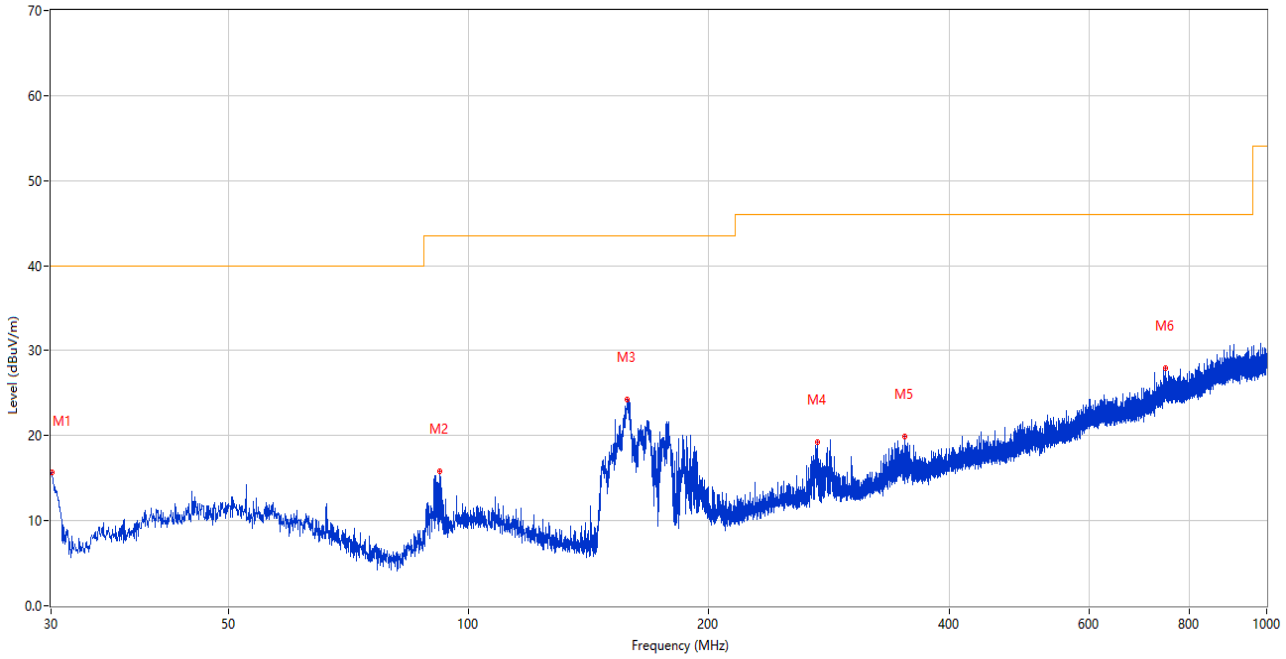
Note [2]: For the test data above 1 GHz， According the ANSI C63.4, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

Note [3]: The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

Note [4]: The EUT is working in the Normal link mode below 1 GHz. All modes have been tested and normal link mode is worst.

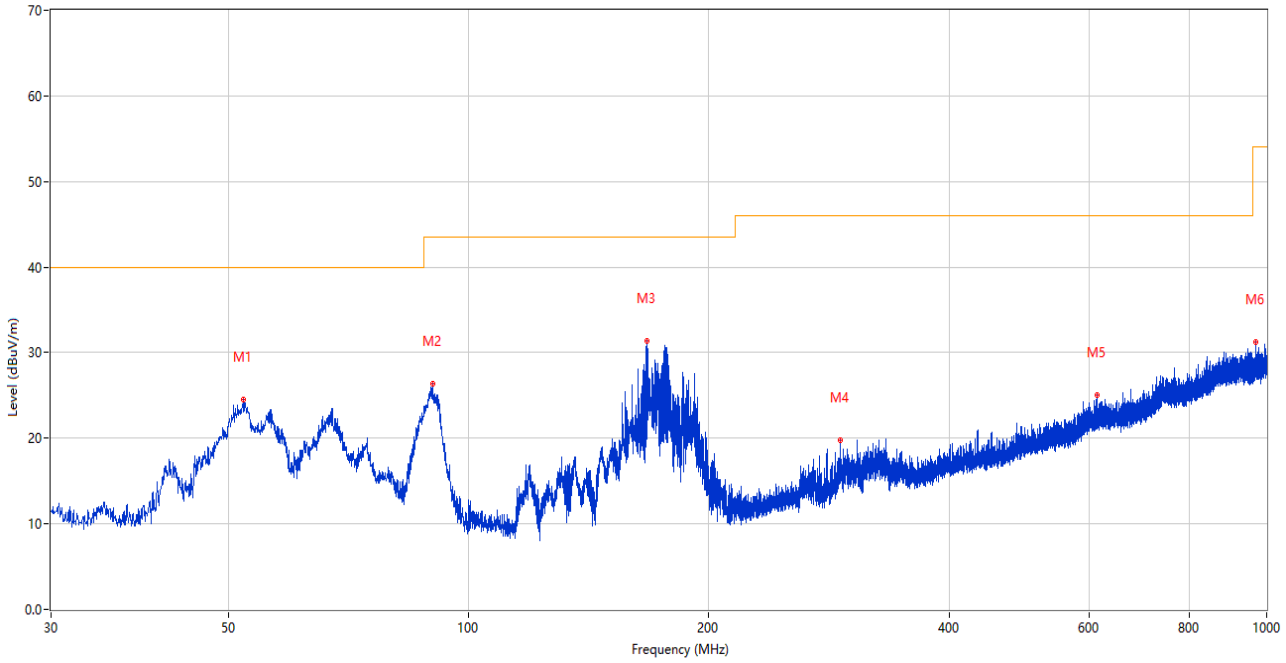
Test Data and Plots

30 MHz to 1 GHz, ANT H



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	30.049	15.70	-28.89	40.0	24.30	Peak	360.00	100	Horizontal	Pass
2	91.983	15.78	-27.49	43.5	27.72	Peak	22.00	200	Horizontal	Pass
3	158.234	24.29	-28.92	43.5	19.21	Peak	360.00	100	Horizontal	Pass
4	273.567	19.24	-24.02	46.0	26.76	Peak	360.00	100	Horizontal	Pass
5	351.701	19.90	-21.52	46.0	26.10	Peak	360.00	100	Horizontal	Pass
6	747.509	28.00	-11.95	46.0	18.00	Peak	317.00	100	Horizontal	Pass

30 MHz to 1 GHz, ANT V



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	52.310	24.48	-24.72	40.0	15.52	Peak	360.00	200	Vertical	Pass
2	90.237	26.35	-27.97	43.5	17.15	Peak	360.00	200	Vertical	Pass
3	167.206	31.41	-28.48	43.5	12.09	Peak	5.00	100	Vertical	Pass
4	292.288	19.78	-23.19	46.0	26.22	Peak	192.00	200	Vertical	Pass
5	612.873	25.05	-14.71	46.0	20.95	Peak	360.00	200	Vertical	Pass
6	967.844	31.21	-8.63	54.0	22.79	Peak	29.00	200	Vertical	Pass

Note: The spurious above 18G is noise only, do not show on the report.

11a, U-NII-1, 1 GHz to 18 GHz, CH44, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1104.750	38.41	-15.63	74.0	35.59	Peak	225.00	150	Horizontal	Pass
1**	1104.750	27.60	-15.63	54.0	26.40	AV	225.00	150	Horizontal	Pass
2	1513.500	40.63	-15.24	74.0	33.37	Peak	151.00	150	Horizontal	Pass
2**	1513.500	28.29	-15.24	54.0	25.71	AV	151.00	150	Horizontal	Pass
3	4001.500	47.96	-4.03	74.0	26.04	Peak	119.00	150	Horizontal	Pass
3**	4001.500	36.52	-4.03	54.0	17.48	AV	119.00	150	Horizontal	Pass
4	5214.500	109.87	-0.94	--	-61.87	Peak	48.00	150	Horizontal	N/A
4**	5214.500	101.46	-0.94	--	-101.46	AV	48.00	150	Horizontal	N/A
5	11288.424	50.59	-1.48	74.0	23.41	Peak	114.00	150	Horizontal	Pass
5**	11288.424	39.83	-1.48	54.0	14.17	AV	114.00	150	Horizontal	Pass
6	15890.025	51.96	1.56	74.0	22.04	Peak	118.00	150	Horizontal	Pass
6**	15890.025	41.54	1.56	54.0	12.46	AV	118.00	150	Horizontal	Pass

11a, U-NII-1, 1 GHz to 18 GHz, CH44, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1048.500	39.07	-15.71	74.0	34.93	Peak	329.00	150	Vertical	Pass
1**	1048.500	27.20	-15.71	54.0	26.80	AV	329.00	150	Vertical	Pass
2	1580.500	39.72	-15.54	74.0	34.28	Peak	35.00	150	Vertical	Pass
2**	1580.500	28.11	-15.54	54.0	25.89	AV	35.00	150	Vertical	Pass
3	4940.000	50.87	-0.54	74.0	23.13	Peak	221.00	150	Vertical	Pass
3**	4940.000	40.46	-0.54	54.0	13.54	AV	221.00	150	Vertical	Pass
4	5214.500	104.07	-0.94	--	-23.07	Peak	81.00	150	Vertical	N/A
4**	5214.500	96.57	-0.94	--	-96.57	AV	81.00	150	Vertical	N/A
5	10998.912	50.56	-0.93	74.0	23.44	Peak	0.00	150	Vertical	Pass
5**	10998.912	39.34	-0.93	54.0	14.66	AV	0.00	150	Vertical	Pass
6	15925.987	52.22	1.16	74.0	21.78	Peak	152.00	150	Vertical	Pass
6**	15925.987	41.46	1.16	54.0	12.54	AV	152.00	150	Vertical	Pass

11n20, U-NII-1, 1 GHz to 18 GHz, CH44, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1141.250	39.30	-15.38	74.0	34.70	Peak	226.00	150	Vertical	Pass
1**	1141.250	27.69	-15.38	54.0	26.31	AV	226.00	150	Vertical	Pass
2	1409.000	40.22	-15.38	74.0	33.78	Peak	94.00	150	Vertical	Pass
2**	1409.000	28.91	-15.38	54.0	25.09	AV	94.00	150	Vertical	Pass
3	4202.500	47.96	-2.35	74.0	26.04	Peak	202.00	150	Vertical	Pass
3**	4202.500	36.98	-2.35	54.0	17.02	AV	202.00	150	Vertical	Pass
4	5223.500	102.58	-0.81	--	-21.58	Peak	81.00	150	Vertical	N/A
4**	5223.500	94.83	-0.81	--	-94.83	AV	81.00	150	Vertical	N/A
5	12507.513	50.52	-0.20	74.0	23.48	Peak	68.00	150	Vertical	Pass
5**	12507.513	40.44	-0.20	54.0	13.56	AV	68.00	150	Vertical	Pass
6	15705.487	51.40	1.26	74.0	22.60	Peak	16.00	150	Vertical	Pass
6**	15705.487	40.91	1.26	54.0	13.09	AV	16.00	150	Vertical	Pass

11n20, U-NII-1, 1 GHz to 18 GHz, CH44, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1021.000	38.75	-15.87	74.0	35.25	Peak	360.00	150	Horizontal	Pass
1**	1021.000	27.21	-15.87	54.0	26.79	AV	360.00	150	Horizontal	Pass
2	1361.500	39.16	-15.36	74.0	34.84	Peak	360.00	150	Horizontal	Pass
2**	1361.500	28.43	-15.36	54.0	25.57	AV	360.00	150	Horizontal	Pass
3	4770.500	49.81	-1.70	74.0	24.19	Peak	172.00	150	Horizontal	Pass
3**	4770.500	38.93	-1.70	54.0	15.07	AV	172.00	150	Horizontal	Pass
4	5216.000	109.20	-0.93	--	-59.20	Peak	50.00	150	Horizontal	N/A
4**	5216.000	100.73	-0.93	--	-100.73	AV	50.00	150	Horizontal	N/A
5	12515.350	50.99	-0.40	74.0	23.01	Peak	92.00	150	Horizontal	Pass
5**	12515.350	39.51	-0.40	54.0	14.49	AV	92.00	150	Horizontal	Pass
6	15944.625	52.05	1.26	74.0	21.95	Peak	223.00	150	Horizontal	Pass
6**	15944.625	42.05	1.26	54.0	11.95	AV	223.00	150	Horizontal	Pass

11n40, U-NII-1, 1 GHz to 18 GHz, CH38, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1200.750	38.43	-15.30	74.0	35.57	Peak	233.00	150	Horizontal	Pass
1**	1200.750	28.29	-15.30	54.0	25.71	AV	233.00	150	Horizontal	Pass
2	1512.750	39.38	-15.24	74.0	34.62	Peak	96.00	150	Horizontal	Pass
2**	1512.750	28.49	-15.24	54.0	25.51	AV	96.00	150	Horizontal	Pass
3	4332.000	48.21	-2.54	74.0	25.79	Peak	142.00	150	Horizontal	Pass
3**	4332.000	37.30	-2.54	54.0	16.70	AV	142.00	150	Horizontal	Pass
4	5185.500	106.86	-0.99	--	-56.86	Peak	50.00	150	Horizontal	N/A
4**	5185.500	97.87	-0.99	--	-97.87	AV	50.00	150	Horizontal	N/A
5	11875.763	49.89	-0.90	74.0	24.11	Peak	282.00	150	Horizontal	Pass
5**	11875.763	39.60	-0.90	54.0	14.40	AV	282.00	150	Horizontal	Pass
6	15888.187	51.51	1.47	74.0	22.49	Peak	0.00	150	Horizontal	Pass
6**	15888.187	41.40	1.47	54.0	12.60	AV	0.00	150	Horizontal	Pass

11n40, U-NII-1, 1 GHz to 18 GHz, CH38, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1171.000	38.75	-15.49	74.0	35.25	Peak	270.00	150	Vertical	Pass
1**	1171.000	27.70	-15.49	54.0	26.30	AV	270.00	150	Vertical	Pass
2	1315.000	39.08	-15.38	74.0	34.92	Peak	193.00	150	Vertical	Pass
2**	1315.000	28.15	-15.38	54.0	25.85	AV	193.00	150	Vertical	Pass
3	3866.500	47.62	-4.52	74.0	26.38	Peak	181.00	150	Vertical	Pass
3**	3866.500	35.99	-4.52	54.0	18.01	AV	181.00	150	Vertical	Pass
4	5187.500	99.68	-1.00	--	-19.68	Peak	80.00	150	Vertical	N/A
4**	5187.500	91.52	-1.00	--	-91.52	AV	80.00	150	Vertical	N/A
5	12000.687	50.48	-1.01	74.0	23.52	Peak	69.00	150	Vertical	Pass
5**	12000.687	39.59	-1.01	54.0	14.41	AV	69.00	150	Vertical	Pass
6	15931.763	52.61	1.35	74.0	21.39	Peak	84.00	150	Vertical	Pass
6**	15931.763	41.73	1.35	54.0	12.27	AV	84.00	150	Vertical	Pass

11ac80, U-NII-1, 1 GHz to 18 GHz, CH42, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1210.500	39.22	-15.55	74.0	34.78	Peak	345.00	150	Horizontal	Pass
1**	1210.500	28.08	-15.55	54.0	25.92	AV	345.00	150	Horizontal	Pass
2	1481.250	39.34	-15.64	74.0	34.66	Peak	6.00	150	Horizontal	Pass
2**	1481.250	28.14	-15.64	54.0	25.86	AV	6.00	150	Horizontal	Pass
3	4187.000	48.14	-2.93	74.0	25.86	Peak	348.00	150	Horizontal	Pass
3**	4187.000	36.73	-2.93	54.0	17.27	AV	348.00	150	Horizontal	Pass
4	5232.500	102.13	-0.86	--	-64.13	Peak	38.00	150	Horizontal	N/A
4**	5232.500	93.78	-0.86	--	-93.78	AV	38.00	150	Horizontal	N/A
5	11915.425	50.36	-1.30	74.0	23.64	Peak	51.00	150	Horizontal	Pass
5**	11915.425	39.20	-1.30	54.0	14.80	AV	51.00	150	Horizontal	Pass
6	15753.787	51.72	0.72	74.0	22.28	Peak	207.00	150	Horizontal	Pass
6**	15753.787	41.21	0.72	54.0	12.79	AV	207.00	150	Horizontal	Pass

11ac80, U-NII-1, 1 GHz to 18 GHz, CH42, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1225.500	38.92	-15.60	74.0	35.08	Peak	340.00	150	Vertical	Pass
1**	1225.500	27.73	-15.60	54.0	26.27	AV	340.00	150	Vertical	Pass
2	1360.250	40.11	-15.35	74.0	33.89	Peak	331.00	150	Vertical	Pass
2**	1360.250	28.36	-15.35	54.0	25.64	AV	331.00	150	Vertical	Pass
3	4725.500	50.18	-1.79	74.0	23.82	Peak	62.00	150	Vertical	Pass
3**	4725.500	39.26	-1.79	54.0	14.74	AV	62.00	150	Vertical	Pass
4	5189.000	95.70	-1.01	--	-24.70	Peak	71.00	150	Vertical	N/A
4**	5189.000	86.62	-1.01	--	-86.62	AV	71.00	150	Vertical	N/A
5	11978.125	50.29	-1.01	74.0	23.71	Peak	27.00	150	Vertical	Pass
5**	11978.125	39.75	-1.01	54.0	14.25	AV	27.00	150	Vertical	Pass
6	15989.775	52.34	1.24	74.0	21.66	Peak	311.00	150	Vertical	Pass
6**	15989.775	41.41	1.24	54.0	12.59	AV	311.00	150	Vertical	Pass

11a, U-NII-2A, 1 GHz to 18 GHz, CH60, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1509.250	39.88	-15.26	74.0	34.12	Peak	100.00	150	Horizontal	Pass
1**	1509.250	28.57	-15.26	54.0	25.43	AV	100.00	150	Horizontal	Pass
2	2801.750	45.38	-8.40	74.0	28.62	Peak	355.00	150	Horizontal	Pass
2**	2801.750	33.94	-8.40	54.0	20.06	AV	355.00	150	Horizontal	Pass
3	4948.000	50.76	-0.53	74.0	23.24	Peak	300.00	150	Horizontal	Pass
3**	4948.000	40.10	-0.53	54.0	13.90	AV	300.00	150	Horizontal	Pass
4	5293.000	109.86	-0.51	--	-77.86	Peak	32.00	150	Horizontal	N/A
4**	5293.000	102.52	-0.51	--	-102.52	AV	32.00	150	Horizontal	N/A
5	7630.000	55.03	3.03	74.0	18.97	Peak	329.00	150	Horizontal	Pass
5**	7630.000	45.10	3.03	54.0	8.90	AV	329.00	150	Horizontal	Pass
6	12263.599	50.38	-1.21	74.0	23.62	Peak	174.00	150	Horizontal	Pass
6**	12263.599	39.02	-1.21	54.0	14.98	AV	174.00	150	Horizontal	Pass

11a, U-NII-2A, 1 GHz to 18 GHz, CH60, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1501.250	39.60	-15.35	74.0	34.40	Peak	0.00	150	Vertical	Pass
1**	1501.250	28.40	-15.35	54.0	25.60	AV	0.00	150	Vertical	Pass
2	2818.250	45.24	-8.08	74.0	28.76	Peak	234.00	150	Vertical	Pass
2**	2818.250	34.22	-8.08	54.0	19.78	AV	234.00	150	Vertical	Pass
3	4399.500	48.31	-2.49	74.0	25.69	Peak	210.00	150	Vertical	Pass
3**	4399.500	37.47	-2.49	54.0	16.53	AV	210.00	150	Vertical	Pass
4	5296.000	102.50	-0.52	--	-1.50	Peak	101.00	150	Vertical	N/A
4**	5296.000	94.61	-0.52	--	-94.61	AV	101.00	150	Vertical	N/A
5	9184.888	49.85	-2.03	74.0	24.15	Peak	266.00	150	Vertical	Pass
5**	9184.888	39.17	-2.03	54.0	14.83	AV	266.00	150	Vertical	Pass
6	15892.125	52.50	1.65	74.0	21.50	Peak	8.00	150	Vertical	Pass
6**	15892.125	42.36	1.65	54.0	11.64	AV	8.00	150	Vertical	Pass

11n20, U-NII-2A, 1 GHz to 18 GHz, CH60, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1468.500	39.64	-15.49	74.0	34.36	Peak	267.00	150	Horizontal	Pass
1**	1468.500	28.10	-15.49	54.0	25.90	AV	267.00	150	Horizontal	Pass
2	2350.250	43.85	-10.39	74.0	30.15	Peak	43.00	150	Horizontal	Pass
2**	2350.250	31.93	-10.39	54.0	22.07	AV	43.00	150	Horizontal	Pass
3	4912.000	50.70	-1.16	74.0	23.30	Peak	249.00	150	Horizontal	Pass
3**	4912.000	39.41	-1.16	54.0	14.59	AV	249.00	150	Horizontal	Pass
4	5293.000	109.14	-0.51	--	-57.14	Peak	52.00	150	Horizontal	N/A
4**	5293.000	101.01	-0.51	--	-101.01	AV	52.00	150	Horizontal	N/A
5	7688.500	55.04	3.42	74.0	18.96	Peak	14.00	150	Horizontal	Pass
5**	7688.500	44.55	3.42	54.0	9.45	AV	14.00	150	Horizontal	Pass
6	11106.975	50.29	-1.35	74.0	23.71	Peak	0.00	150	Horizontal	Pass
6**	11106.975	39.00	-1.35	54.0	15.00	AV	0.00	150	Horizontal	Pass

11n20, U-NII-2A, 1 GHz to 18 GHz, CH60, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1218.500	39.31	-15.65	74.0	34.69	Peak	333.00	150	Vertical	Pass
1**	1218.500	27.64	-15.65	54.0	26.36	AV	333.00	150	Vertical	Pass
2	2374.000	43.83	-11.57	74.0	30.17	Peak	292.00	150	Vertical	Pass
2**	2374.000	32.25	-11.57	54.0	21.75	AV	292.00	150	Vertical	Pass
3	4085.000	48.62	-3.84	74.0	25.38	Peak	163.00	150	Vertical	Pass
3**	4085.000	36.73	-3.84	54.0	17.27	AV	163.00	150	Vertical	Pass
4	5296.500	101.01	-0.50	--	-85.01	Peak	16.00	150	Vertical	N/A
4**	5296.500	92.45	-0.50	--	-92.45	AV	16.00	150	Vertical	N/A
5	7630.000	54.97	3.03	74.0	19.03	Peak	204.00	150	Vertical	Pass
5**	7630.000	44.52	3.03	54.0	9.48	AV	204.00	150	Vertical	Pass
6	11326.662	50.72	-1.69	74.0	23.28	Peak	264.00	150	Vertical	Pass
6**	11326.662	39.47	-1.69	54.0	14.53	AV	264.00	150	Vertical	Pass

11n40, U-NII-2A, 1 GHz to 18 GHz, CH54, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1504.750	40.39	-15.23	74.0	33.61	Peak	270.00	150	Horizontal	Pass
1**	1504.750	28.23	-15.23	54.0	25.77	AV	270.00	150	Horizontal	Pass
2	2363.500	43.11	-11.05	74.0	30.89	Peak	141.00	150	Horizontal	Pass
2**	2363.500	31.63	-11.05	54.0	22.37	AV	141.00	150	Horizontal	Pass
3	4173.500	47.90	-3.30	74.0	26.10	Peak	83.00	150	Horizontal	Pass
3**	4173.500	36.64	-3.30	54.0	17.36	AV	83.00	150	Horizontal	Pass
4	5276.000	107.20	-0.84	--	-55.20	Peak	52.00	150	Horizontal	N/A
4**	5276.000	97.24	-0.84	--	-97.24	AV	52.00	150	Horizontal	N/A
5	7627.000	55.32	2.89	74.0	18.68	Peak	280.00	150	Horizontal	Pass
5**	7627.000	44.36	2.89	54.0	9.64	AV	280.00	150	Horizontal	Pass
6	15941.213	52.71	1.58	74.0	21.29	Peak	68.00	150	Horizontal	Pass
6**	15941.213	42.33	1.58	54.0	11.67	AV	68.00	150	Horizontal	Pass

11n40, U-NII-2A, 1 GHz to 18 GHz, CH54, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1455.250	39.52	-15.42	74.0	34.48	Peak	184.00	150	Vertical	Pass
1**	1455.250	28.25	-15.42	54.0	25.75	AV	184.00	150	Vertical	Pass
2	2259.000	43.19	-11.67	74.0	30.81	Peak	256.00	150	Vertical	Pass
2**	2259.000	31.27	-11.67	54.0	22.73	AV	256.00	150	Vertical	Pass
3	4245.500	47.69	-2.50	74.0	26.31	Peak	16.00	150	Vertical	Pass
3**	4245.500	37.56	-2.50	54.0	16.44	AV	16.00	150	Vertical	Pass
4	5272.500	98.81	-0.84	--	-17.81	Peak	81.00	150	Vertical	N/A
4**	5272.500	90.00	-0.84	--	-90.00	AV	81.00	150	Vertical	N/A
5	7330.500	54.77	2.76	74.0	19.23	Peak	360.00	150	Vertical	Pass
5**	7330.500	44.19	2.76	54.0	9.81	AV	360.00	150	Vertical	Pass
6	12012.800	50.36	-0.97	74.0	23.64	Peak	6.00	150	Vertical	Pass
6**	12012.800	39.61	-0.97	54.0	14.39	AV	6.00	150	Vertical	Pass

11ac80, U-NII-2A, 1 GHz to 18 GHz, CH58, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1131.250	38.94	-15.59	74.0	35.06	Peak	69.00	150	Horizontal	Pass
1**	1131.250	27.59	-15.59	54.0	26.41	AV	69.00	150	Horizontal	Pass
2	2720.000	45.32	-8.22	74.0	28.68	Peak	45.00	150	Horizontal	Pass
2**	2720.000	33.64	-8.22	54.0	20.36	AV	45.00	150	Horizontal	Pass
3	4188.500	48.10	-2.86	74.0	25.90	Peak	15.00	150	Horizontal	Pass
3**	4188.500	37.64	-2.86	54.0	16.36	AV	15.00	150	Horizontal	Pass
4	5298.000	100.77	-0.54	--	-47.77	Peak	53.00	150	Horizontal	N/A
4**	5298.000	92.48	-0.54	--	-92.48	AV	53.00	150	Horizontal	N/A
5	7327.000	55.51	2.71	74.0	18.49	Peak	260.00	150	Horizontal	Pass
5**	7327.000	44.01	2.71	54.0	9.99	AV	260.00	150	Horizontal	Pass
6	12688.487	50.98	-0.32	74.0	23.02	Peak	220.00	150	Horizontal	Pass
6**	12688.487	40.34	-0.32	54.0	13.66	AV	220.00	150	Horizontal	Pass

11ac80, U-NII-2A, 1 GHz to 18 GHz, CH58, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1598.750	39.81	-15.30	74.0	34.19	Peak	20.00	150	Vertical	Pass
1**	1598.750	28.55	-15.30	54.0	25.45	AV	20.00	150	Vertical	Pass
2	2704.750	45.15	-9.06	74.0	28.85	Peak	342.00	150	Vertical	Pass
2**	2704.750	33.73	-9.06	54.0	20.27	AV	342.00	150	Vertical	Pass
3	4273.000	48.15	-2.35	74.0	25.85	Peak	192.00	150	Vertical	Pass
3**	4273.000	37.44	-2.35	54.0	16.56	AV	192.00	150	Vertical	Pass
4	5314.000	92.58	-0.48	--	-20.58	Peak	72.00	150	Vertical	N/A
4**	5314.000	84.47	-0.48	--	-84.47	AV	72.00	150	Vertical	N/A
5	7704.500	55.64	3.80	74.0	18.36	Peak	94.00	150	Vertical	Pass
5**	7704.500	44.67	3.80	54.0	9.33	AV	94.00	150	Vertical	Pass
6	12519.151	51.48	-0.46	74.0	22.52	Peak	173.00	150	Vertical	Pass
6**	12519.151	39.78	-0.46	54.0	14.22	AV	173.00	150	Vertical	Pass

11a, U-NII-2C, 1 GHz to 18 GHz, CH116, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1559.500	39.48	-15.23	74.0	34.52	Peak	28.00	150	Horizontal	Pass
1**	1559.500	28.38	-15.23	54.0	25.62	AV	28.00	150	Horizontal	Pass
2	2791.250	45.85	-8.07	74.0	28.15	Peak	271.00	150	Horizontal	Pass
2**	2791.250	33.84	-8.07	54.0	20.16	AV	271.00	150	Horizontal	Pass
3	4311.000	48.54	-2.75	74.0	25.46	Peak	278.00	150	Horizontal	Pass
3**	4311.000	37.60	-2.75	54.0	16.40	AV	278.00	150	Horizontal	Pass
4	5573.500	110.57	-0.79	--	-70.57	Peak	40.00	150	Horizontal	N/A
4**	5573.500	103.27	-0.79	--	-103.27	AV	40.00	150	Horizontal	N/A
5	7306.500	55.26	2.63	74.0	18.74	Peak	359.00	150	Horizontal	Pass
5**	7306.500	44.14	2.63	54.0	9.86	AV	359.00	150	Horizontal	Pass
6	12682.787	51.05	-0.22	74.0	22.95	Peak	284.00	150	Horizontal	Pass
6**	12682.787	40.70	-0.22	54.0	13.30	AV	284.00	150	Horizontal	Pass

11a, U-NII-2C, 1 GHz to 18 GHz, CH116, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1523.500	39.45	-15.40	74.0	34.55	Peak	239.00	150	Vertical	Pass
1**	1523.500	28.24	-15.40	54.0	25.76	AV	239.00	150	Vertical	Pass
2	2802.750	45.41	-8.39	74.0	28.59	Peak	180.00	150	Vertical	Pass
2**	2802.750	34.02	-8.39	54.0	19.98	AV	180.00	150	Vertical	Pass
3	3967.000	47.76	-3.20	74.0	26.24	Peak	0.00	150	Vertical	Pass
3**	3967.000	36.46	-3.20	54.0	17.54	AV	0.00	150	Vertical	Pass
4	5586.500	105.32	-0.59	--	-94.32	Peak	11.00	150	Vertical	N/A
4**	5586.500	97.54	-0.59	--	-97.54	AV	11.00	150	Vertical	N/A
5	7316.000	55.51	2.63	74.0	18.49	Peak	158.00	150	Vertical	Pass
5**	7316.000	44.59	2.63	54.0	9.41	AV	158.00	150	Vertical	Pass
6	12601.562	50.58	-0.21	74.0	23.42	Peak	167.00	150	Vertical	Pass
6**	12601.562	39.68	-0.21	54.0	14.32	AV	167.00	150	Vertical	Pass

11n20, U-NII-2C, 1 GHz to 18 GHz, CH116, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1419.750	39.68	-15.38	74.0	34.32	Peak	13.00	150	Horizontal	Pass
1**	1419.750	28.34	-15.38	54.0	25.66	AV	13.00	150	Horizontal	Pass
2	2845.000	45.18	-7.49	74.0	28.82	Peak	59.00	150	Horizontal	Pass
2**	2845.000	34.62	-7.49	54.0	19.38	AV	59.00	150	Horizontal	Pass
3	4206.500	48.16	-2.26	74.0	25.84	Peak	337.00	150	Horizontal	Pass
3**	4206.500	37.09	-2.26	54.0	16.91	AV	337.00	150	Horizontal	Pass
4	5582.500	109.83	-0.68	--	-62.83	Peak	47.00	150	Horizontal	N/A
4**	5582.500	101.62	-0.68	--	-101.62	AV	47.00	150	Horizontal	N/A
5	7731.500	56.23	3.18	74.0	17.77	Peak	206.00	150	Horizontal	Pass
5**	7731.500	44.75	3.18	54.0	9.25	AV	206.00	150	Horizontal	Pass
6	12661.175	51.88	-0.26	74.0	22.12	Peak	354.00	150	Horizontal	Pass
6**	12661.175	40.08	-0.26	54.0	13.92	AV	354.00	150	Horizontal	Pass

11n20, U-NII-2C, 1 GHz to 18 GHz, CH116, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1361.750	39.41	-15.37	74.0	34.59	Peak	33.00	150	Vertical	Pass
1**	1361.750	28.21	-15.37	54.0	25.79	AV	33.00	150	Vertical	Pass
2	2827.500	45.28	-8.35	74.0	28.72	Peak	289.00	150	Vertical	Pass
2**	2827.500	34.12	-8.35	54.0	19.88	AV	289.00	150	Vertical	Pass
3	4191.000	47.62	-2.80	74.0	26.38	Peak	350.00	150	Vertical	Pass
3**	4191.000	37.10	-2.80	54.0	16.90	AV	350.00	150	Vertical	Pass
4	5585.000	103.79	-0.65	--	-91.79	Peak	12.00	150	Vertical	N/A
4**	5585.000	95.64	-0.65	--	-95.64	AV	12.00	150	Vertical	N/A
5	7745.500	55.70	3.51	74.0	18.30	Peak	100.00	150	Vertical	Pass
5**	7745.500	44.81	3.51	54.0	9.19	AV	100.00	150	Vertical	Pass
6	11313.362	50.89	-1.36	74.0	23.11	Peak	190.00	150	Vertical	Pass
6**	11313.362	39.91	-1.36	54.0	14.09	AV	190.00	150	Vertical	Pass

11n40, U-NII-2C, 1 GHz to 18 GHz, CH118l, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1491.500	39.46	-15.53	74.0	34.54	Peak	78.00	150	Horizontal	Pass
1**	1491.500	28.17	-15.53	54.0	25.83	AV	78.00	150	Horizontal	Pass
2	2346.750	43.00	-10.43	74.0	31.00	Peak	304.00	150	Horizontal	Pass
2**	2346.750	32.20	-10.43	54.0	21.80	AV	304.00	150	Horizontal	Pass
3	4231.000	48.86	-2.83	74.0	25.14	Peak	326.00	150	Horizontal	Pass
3**	4231.000	36.73	-2.83	54.0	17.27	AV	326.00	150	Horizontal	Pass
4	5592.000	108.47	-0.61	--	-58.47	Peak	50.00	150	Horizontal	N/A
4**	5592.000	99.79	-0.61	--	-99.79	AV	50.00	150	Horizontal	N/A
5	7743.500	55.86	3.43	74.0	18.14	Peak	343.00	150	Horizontal	Pass
5**	7743.500	45.04	3.43	54.0	8.96	AV	343.00	150	Horizontal	Pass
6	11163.737	50.83	-1.19	74.0	23.17	Peak	284.00	150	Horizontal	Pass
6**	11163.737	39.34	-1.19	54.0	14.66	AV	284.00	150	Horizontal	Pass

11n40, U-NII-2C, 1 GHz to 18 GHz, CH118, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1196.250	39.45	-15.26	74.0	34.55	Peak	355.00	150	Vertical	Pass
1**	1196.250	27.71	-15.26	54.0	26.29	AV	355.00	150	Vertical	Pass
2	2284.000	43.12	-11.92	74.0	30.88	Peak	360.00	150	Vertical	Pass
2**	2284.000	31.86	-11.92	54.0	22.14	AV	360.00	150	Vertical	Pass
3	4052.000	47.59	-3.04	74.0	26.41	Peak	220.00	150	Vertical	Pass
3**	4052.000	36.87	-3.04	54.0	17.13	AV	220.00	150	Vertical	Pass
4	5587.500	102.01	-0.62	--	-102.01	Peak	0.00	150	Vertical	N/A
4**	5587.500	92.82	-0.62	--	-92.82	AV	0.00	150	Vertical	N/A
5	7685.500	56.02	3.35	74.0	17.98	Peak	208.00	150	Vertical	Pass
5**	7685.500	44.49	3.35	54.0	9.51	AV	208.00	150	Vertical	Pass
6	12549.550	50.37	-0.18	74.0	23.63	Peak	166.00	150	Vertical	Pass
6**	12549.550	39.98	-0.18	54.0	14.02	AV	166.00	150	Vertical	Pass

11ac80, U-NII-2C, 1 GHz to 18 GHz, Low Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1529.000	39.45	-15.44	74.0	34.55	Peak	62.00	150	Horizontal	Pass
1**	1529.000	28.34	-15.44	54.0	25.66	AV	62.00	150	Horizontal	Pass
2	2771.000	45.16	-7.88	74.0	28.84	Peak	158.00	150	Horizontal	Pass
2**	2771.000	33.71	-7.88	54.0	20.29	AV	158.00	150	Horizontal	Pass
3	4060.500	48.21	-2.99	74.0	25.79	Peak	151.00	150	Horizontal	Pass
3**	4060.500	37.37	-2.99	54.0	16.63	AV	151.00	150	Horizontal	Pass
4	5510.000	101.16	-0.87	--	-50.16	Peak	51.00	150	Horizontal	N/A
4**	5510.000	92.34	-0.87	--	-92.34	AV	51.00	150	Horizontal	N/A
5	7704.000	55.75	3.77	74.0	18.25	Peak	0.00	150	Horizontal	Pass
5**	7704.000	44.63	3.77	54.0	9.37	AV	0.00	150	Horizontal	Pass
6	11308.613	50.53	-1.51	74.0	23.47	Peak	117.00	150	Horizontal	Pass
6**	11308.613	40.07	-1.51	54.0	13.93	AV	117.00	150	Horizontal	Pass

11ac80, U-NII-2C, 1 GHz to 18 GHz, Low Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1356.000	39.53	-15.34	74.0	34.47	Peak	18.00	150	Vertical	Pass
1**	1356.000	28.26	-15.34	54.0	25.74	AV	18.00	150	Vertical	Pass
2	2762.750	46.45	-8.44	74.0	27.55	Peak	218.00	150	Vertical	Pass
2**	2762.750	33.85	-8.44	54.0	20.15	AV	218.00	150	Vertical	Pass
3	4209.500	49.02	-2.27	74.0	24.98	Peak	40.00	150	Vertical	Pass
3**	4209.500	37.47	-2.27	54.0	16.53	AV	40.00	150	Vertical	Pass
4	5512.000	93.78	-0.90	--	-89.78	Peak	4.00	150	Vertical	N/A
4**	5512.000	84.81	-0.90	--	-84.81	AV	4.00	150	Vertical	N/A
5	7317.500	55.86	2.63	74.0	18.14	Peak	220.00	150	Vertical	Pass
5**	7317.500	44.40	2.63	54.0	9.60	AV	220.00	150	Vertical	Pass
6	12640.987	51.03	-0.25	74.0	22.97	Peak	360.00	150	Vertical	Pass
6**	12640.987	39.90	-0.25	54.0	14.10	AV	360.00	150	Vertical	Pass

11a, U-NII-3, 1 GHz to 18 GHz, CH157, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1362.750	39.00	-15.38	74.0	35.00	Peak	276.00	150	Horizontal	Pass
1**	1362.750	28.36	-15.38	54.0	25.64	AV	276.00	150	Horizontal	Pass
2	2759.250	45.20	-8.69	74.0	28.80	Peak	3.00	150	Horizontal	Pass
2**	2759.250	33.96	-8.69	54.0	20.04	AV	3.00	150	Horizontal	Pass
3	4193.000	48.01	-2.71	74.0	25.99	Peak	92.00	150	Horizontal	Pass
3**	4193.000	37.00	-2.71	54.0	17.00	AV	92.00	150	Horizontal	Pass
4	5790.000	111.66	0.35	--	-60.66	Peak	51.00	150	Horizontal	N/A
4**	5790.000	103.77	0.35	--	-103.77	AV	51.00	150	Horizontal	N/A
5	7270.500	55.48	2.45	74.0	18.52	Peak	0.00	150	Horizontal	Pass
5**	7270.500	44.19	2.45	54.0	9.81	AV	0.00	150	Horizontal	Pass
6	11930.863	50.81	-1.13	74.0	23.19	Peak	21.00	150	Horizontal	Pass
6**	11930.863	39.84	-1.13	54.0	14.16	AV	21.00	150	Horizontal	Pass

11a, U-NII-3, 1 GHz to 18 GHz, CH157, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1581.250	39.40	-15.54	74.0	34.60	Peak	120.00	150	Vertical	Pass
1**	1581.250	28.36	-15.54	54.0	25.64	AV	120.00	150	Vertical	Pass
2	2841.250	45.72	-7.57	74.0	28.28	Peak	341.00	150	Vertical	Pass
2**	2841.250	34.23	-7.57	54.0	19.77	AV	341.00	150	Vertical	Pass
3	4695.000	50.16	-2.23	74.0	23.84	Peak	150.00	150	Vertical	Pass
3**	4695.000	38.99	-2.23	54.0	15.01	AV	150.00	150	Vertical	Pass
4	5784.500	103.75	0.35	--	-103.75	Peak	0.00	150	Vertical	N/A
4**	5784.500	95.37	0.35	--	-95.37	AV	0.00	150	Vertical	N/A
5	9336.175	50.22	-1.91	74.0	23.78	Peak	46.00	150	Vertical	Pass
5**	9336.175	39.71	-1.91	54.0	14.29	AV	46.00	150	Vertical	Pass
6	12502.287	51.58	-0.07	74.0	22.42	Peak	167.00	150	Vertical	Pass
6**	12502.287	40.16	-0.07	54.0	13.84	AV	167.00	150	Vertical	Pass

11n20, U-NII-3, 1 GHz to 18 GHz, CH157, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1530.250	39.22	-15.42	74.0	34.78	Peak	169.00	150	Horizontal	Pass
1**	1530.250	28.40	-15.42	54.0	25.60	AV	169.00	150	Horizontal	Pass
2	2723.250	45.58	-8.19	74.0	28.42	Peak	239.00	150	Horizontal	Pass
2**	2723.250	33.71	-8.19	54.0	20.29	AV	239.00	150	Horizontal	Pass
3	4394.500	48.28	-2.62	74.0	25.72	Peak	243.00	150	Horizontal	Pass
3**	4394.500	37.55	-2.62	54.0	16.45	AV	243.00	150	Horizontal	Pass
4	5790.500	109.89	0.33	--	-58.89	Peak	51.00	150	Horizontal	N/A
4**	5790.500	101.91	0.33	--	-101.91	AV	51.00	150	Horizontal	N/A
5	7251.000	55.58	3.10	74.0	18.42	Peak	0.00	150	Horizontal	Pass
5**	7251.000	44.31	3.10	54.0	9.69	AV	0.00	150	Horizontal	Pass
6	11889.537	51.12	-1.00	74.0	22.88	Peak	285.00	150	Horizontal	Pass
6**	11889.537	39.78	-1.00	54.0	14.22	AV	285.00	150	Horizontal	Pass

11n20, U-NII-3, 1 GHz to 18 GHz, CH157 ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1164.000	39.79	-15.46	74.0	34.21	Peak	270.00	150	Vertical	Pass
1**	1164.000	27.81	-15.46	54.0	26.19	AV	270.00	150	Vertical	Pass
2	2814.500	45.37	-8.10	74.0	28.63	Peak	223.00	150	Vertical	Pass
2**	2814.500	34.57	-8.10	54.0	19.43	AV	223.00	150	Vertical	Pass
3	4184.000	48.50	-3.03	74.0	25.50	Peak	352.00	150	Vertical	Pass
3**	4184.000	37.27	-3.03	54.0	16.73	AV	352.00	150	Vertical	Pass
4	5792.500	102.16	0.34	--	-102.16	Peak	0.00	150	Vertical	N/A
4**	5792.500	93.84	0.34	--	-93.84	AV	0.00	150	Vertical	N/A
5	9321.450	49.77	-2.10	74.0	24.23	Peak	360.00	150	Vertical	Pass
5**	9321.450	40.00	-2.10	54.0	14.00	AV	360.00	150	Vertical	Pass
6	15898.162	52.88	1.61	74.0	21.12	Peak	254.00	150	Vertical	Pass
6**	15898.162	41.63	1.61	54.0	12.37	AV	254.00	150	Vertical	Pass

11n40, U-NII-3, 1 GHz to 18 GHz, CH151, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1378.250	39.71	-15.53	74.0	34.29	Peak	306.00	150	Horizontal	Pass
1**	1378.250	28.29	-15.53	54.0	25.71	AV	306.00	150	Horizontal	Pass
2	2807.250	45.18	-8.31	74.0	28.82	Peak	142.00	150	Horizontal	Pass
2**	2807.250	34.25	-8.31	54.0	19.75	AV	142.00	150	Horizontal	Pass
3	5065.000	51.92	-0.99	74.0	22.08	Peak	90.00	150	Horizontal	Pass
3**	5065.000	40.03	-0.99	54.0	13.97	AV	90.00	150	Horizontal	Pass
4	5752.000	108.59	-0.02	--	-58.59	Peak	50.00	150	Horizontal	N/A
4**	5752.000	100.49	-0.02	--	-100.49	AV	50.00	150	Horizontal	N/A
5	9321.450	49.93	-2.10	74.0	24.07	Peak	168.00	150	Horizontal	Pass
5**	9321.450	39.29	-2.10	54.0	14.71	AV	168.00	150	Horizontal	Pass
6	12455.737	51.81	-0.07	74.0	22.19	Peak	355.00	150	Horizontal	Pass
6**	12455.737	39.94	-0.07	54.0	14.06	AV	355.00	150	Horizontal	Pass

11n40, U-NII-3, 1 GHz to 18 GHz, CH151, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1317.250	39.66	-15.38	74.0	34.34	Peak	38.00	150	Vertical	Pass
1**	1317.250	28.12	-15.38	54.0	25.88	AV	38.00	150	Vertical	Pass
2	2334.000	43.33	-10.87	74.0	30.67	Peak	5.00	150	Vertical	Pass
2**	2334.000	32.25	-10.87	54.0	21.75	AV	5.00	150	Vertical	Pass
3	4946.500	51.54	-0.51	74.0	22.46	Peak	268.00	150	Vertical	Pass
3**	4946.500	39.83	-0.51	54.0	14.17	AV	268.00	150	Vertical	Pass
4	5753.000	102.26	0.00	--	-98.26	Peak	4.00	150	Vertical	N/A
4**	5753.000	93.58	0.00	--	-93.58	AV	4.00	150	Vertical	N/A
5	7729.500	56.02	3.09	74.0	17.98	Peak	101.00	150	Vertical	Pass
5**	7729.500	45.08	3.09	54.0	8.92	AV	101.00	150	Vertical	Pass
6	12497.537	50.32	0.20	74.0	23.68	Peak	311.00	150	Vertical	Pass
6**	12497.537	40.60	0.20	54.0	13.40	AV	311.00	150	Vertical	Pass

11ac80, U-NII-3, 1 GHz to 18 GHz, CH155, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1531.750	39.35	-15.40	74.0	34.65	Peak	245.00	150	Horizontal	Pass
1**	1531.750	28.57	-15.40	54.0	25.43	AV	245.00	150	Horizontal	Pass
2	2237.250	42.86	-11.60	74.0	31.14	Peak	47.00	150	Horizontal	Pass
2**	2237.250	32.32	-11.60	54.0	21.68	AV	47.00	150	Horizontal	Pass
3	4310.500	48.98	-2.73	74.0	25.02	Peak	52.00	150	Horizontal	Pass
3**	4310.500	37.19	-2.73	54.0	16.81	AV	52.00	150	Horizontal	Pass
4	5753.500	103.08	0.01	--	-51.08	Peak	52.00	150	Horizontal	N/A
4**	5753.500	94.26	0.01	--	-94.26	AV	52.00	150	Horizontal	N/A
5	7734.000	55.59	3.22	74.0	18.41	Peak	321.00	150	Horizontal	Pass
5**	7734.000	44.70	3.22	54.0	9.30	AV	321.00	150	Horizontal	Pass
6	15944.362	53.03	1.25	74.0	20.97	Peak	14.00	150	Horizontal	Pass
6**	15944.362	41.90	1.25	54.0	12.10	AV	14.00	150	Horizontal	Pass

11ac80, U-NII-3, 1 GHz to 18 GHz, CH155, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1410.750	39.75	-15.37	74.0	34.25	Peak	26.00	150	Vertical	Pass
1**	1410.750	28.02	-15.37	54.0	25.98	AV	26.00	150	Vertical	Pass
2	2864.250	45.35	-7.53	74.0	28.65	Peak	360.00	150	Vertical	Pass
2**	2864.250	34.51	-7.53	54.0	19.49	AV	360.00	150	Vertical	Pass
3	4397.500	48.44	-2.55	74.0	25.56	Peak	0.00	150	Vertical	Pass
3**	4397.500	38.11	-2.55	54.0	15.89	AV	0.00	150	Vertical	Pass
4	5753.500	95.87	0.01	--	-91.87	Peak	4.00	150	Vertical	N/A
4**	5753.500	87.02	0.01	--	-87.02	AV	4.00	150	Vertical	N/A
5	9304.588	50.72	-1.87	74.0	23.28	Peak	360.00	150	Vertical	Pass
5**	9304.588	39.98	-1.87	54.0	14.02	AV	360.00	150	Vertical	Pass
6	15951.188	52.61	1.16	74.0	21.39	Peak	352.00	150	Vertical	Pass
6**	15951.188	42.63	1.16	54.0	11.37	AV	352.00	150	Vertical	Pass

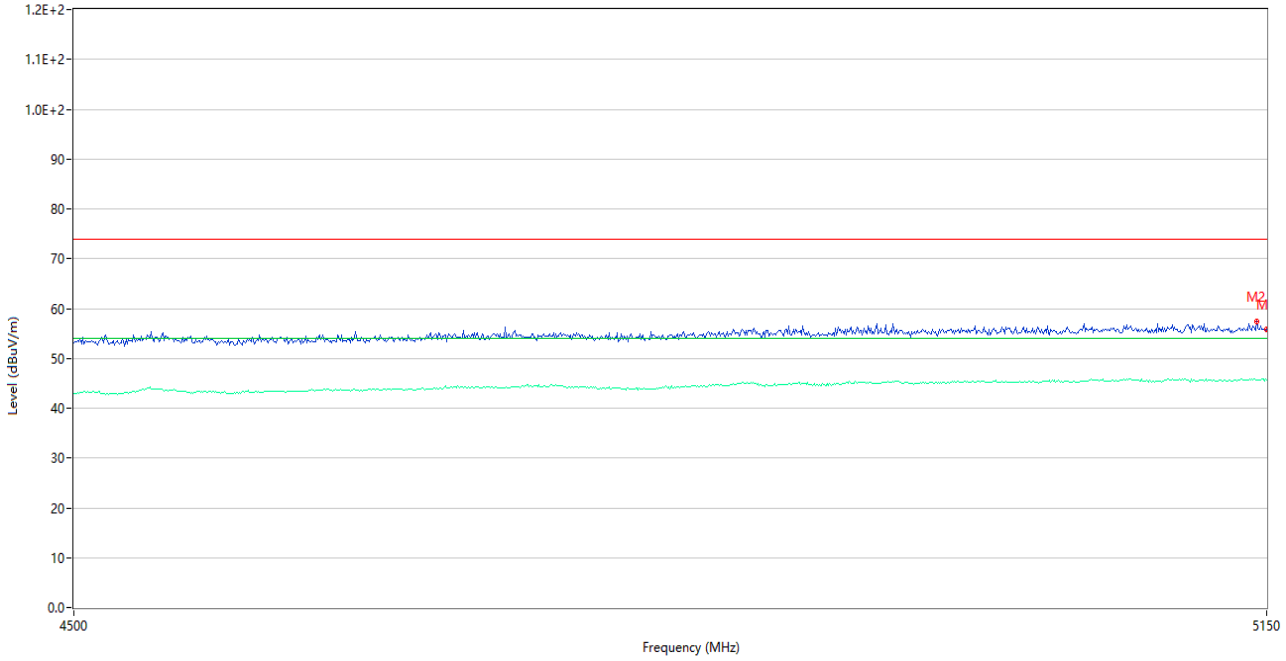
A.6.2 Band Edge (Restricted-band)

Test Band	Mode	Channel	Verdict
U-NII-1	11a	Low	Pass
		High	Pass
	11n (HT20)	Low	Pass
		High	Pass
	11n (HT40)	Low	Pass
		High	Pass
	11ac (VHT20)	Low	Pass
		High	Pass
	11ac (VHT40)	Low	Pass
		High	Pass
	11ac (VHT80)	Middle	Pass
	11ac (VHT160)	Middle	Pass
U-NII-2A	11a	Low	Pass
		High	Pass
	11n (HT20)	Low	Pass
		High	Pass
	11n (HT40)	Low	Pass
		High	Pass
	11ac (VHT20)	Low	Pass
		High	Pass
	11ac (VHT40)	Low	Pass
		High	Pass
	11ac (VHT80)	Middle	Pass
U-NII-2C	11a	Low	Pass
		High	Pass
	11n (HT20)	Low	Pass
		High	Pass
	11n (HT40)	Low	Pass
		High	Pass
	11ac (VHT20)	Low	Pass
		High	Pass
	11ac (VHT40)	Low	Pass
		High	Pass
	11ac (VHT80)	Low	Pass
		High	Pass
		High	Pass
	11ax (HE80)	Low	Pass
		High	Pass
	11ac (HE160)	Middle	Pass
U-NII-3	11a	Low	Pass

		High	Pass
	11n (HT20)	Low	Pass
		High	Pass
	11n (HT40)	Low	Pass
		High	Pass
	11ac (VHT20)	Low	Pass
		High	Pass
	11ac (VHT40)	Low	Pass
		High	Pass
	11ac (VHT80)	Middle	Pass

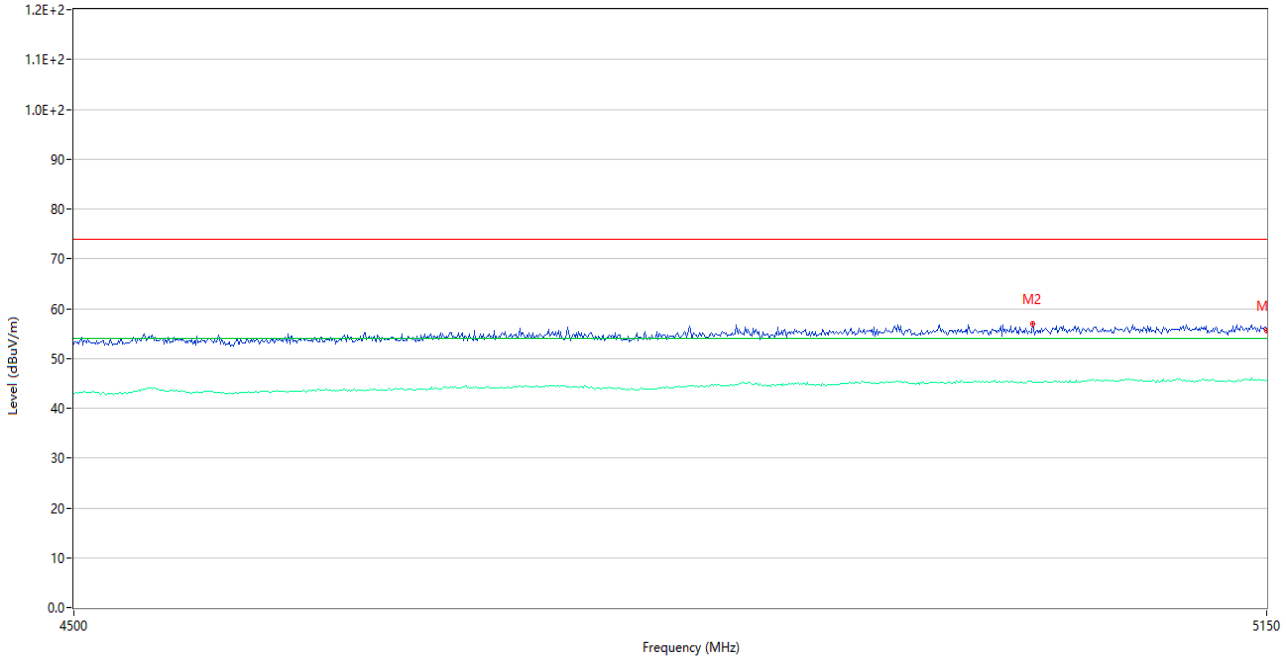
Test Data and Plots

U-NII-1 11a CH36, ANT V



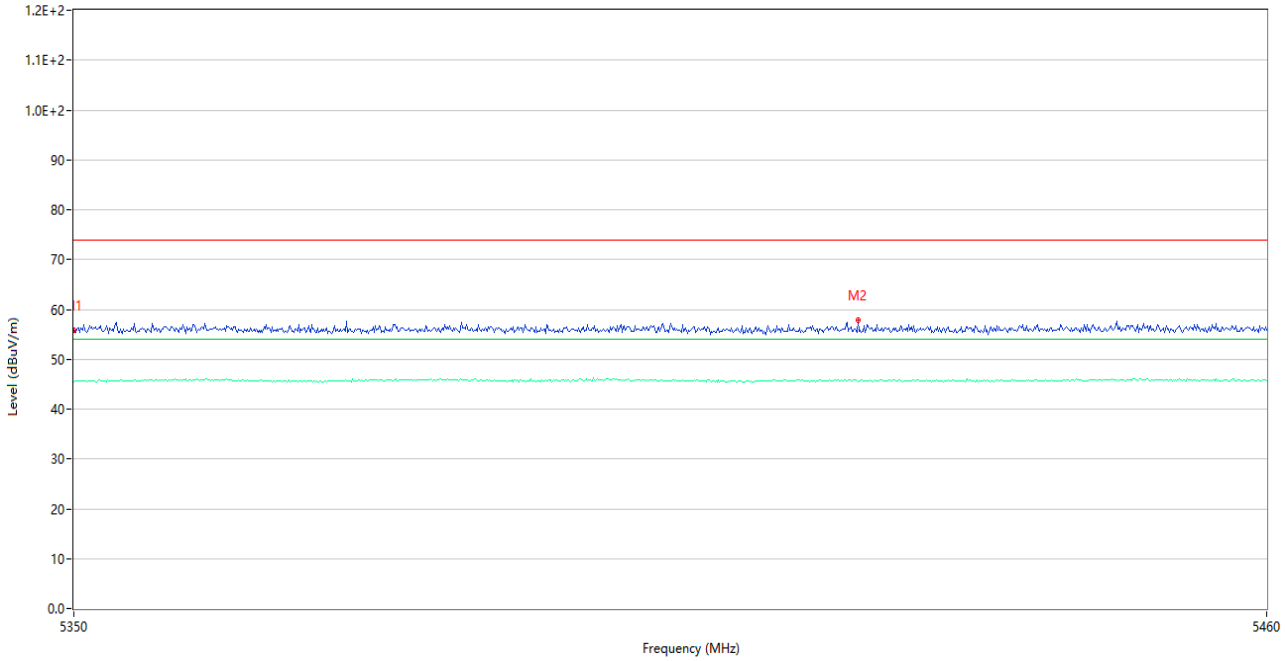
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5150.000	55.81	5.21	74.0	18.19	Peak	236.98	150	Vertical	Pass
1**	5150.000	45.66	5.21	54.0	8.34	AV	236.98	150	Vertical	Pass
2	5144.150	57.49	5.42	74.0	16.51	Peak	1.00	150	Vertical	Pass
2**	5144.150	45.64	5.42	54.0	8.36	AV	1.00	150	Vertical	Pass

U-NII-1 11a CH36, ANT H



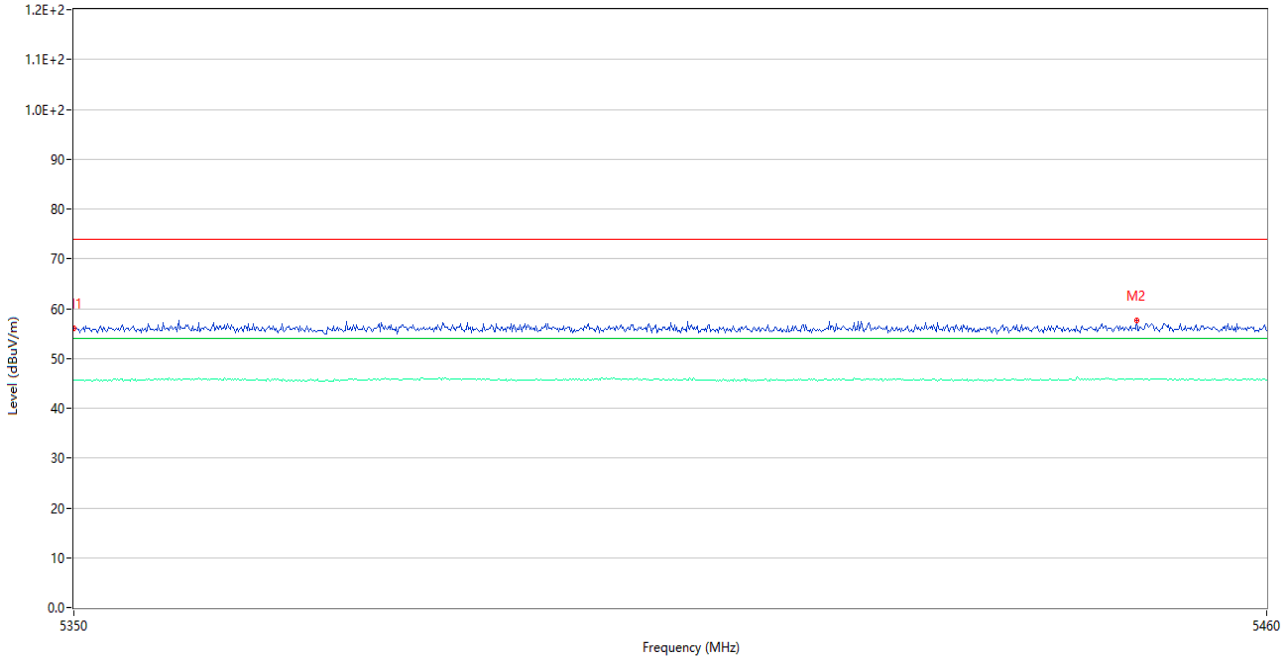
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5150.000	55.66	5.21	74.0	18.34	Peak	66.99	150	Horizontal	Pass
1**	5150.000	45.69	5.21	54.0	8.31	AV	66.99	150	Horizontal	Pass
2	5015.450	56.84	4.94	74.0	17.16	Peak	291.00	150	Horizontal	Pass
2**	5015.450	45.25	4.94	54.0	8.75	AV	291.00	150	Horizontal	Pass

U-NII-1 11a CH48, ANT V



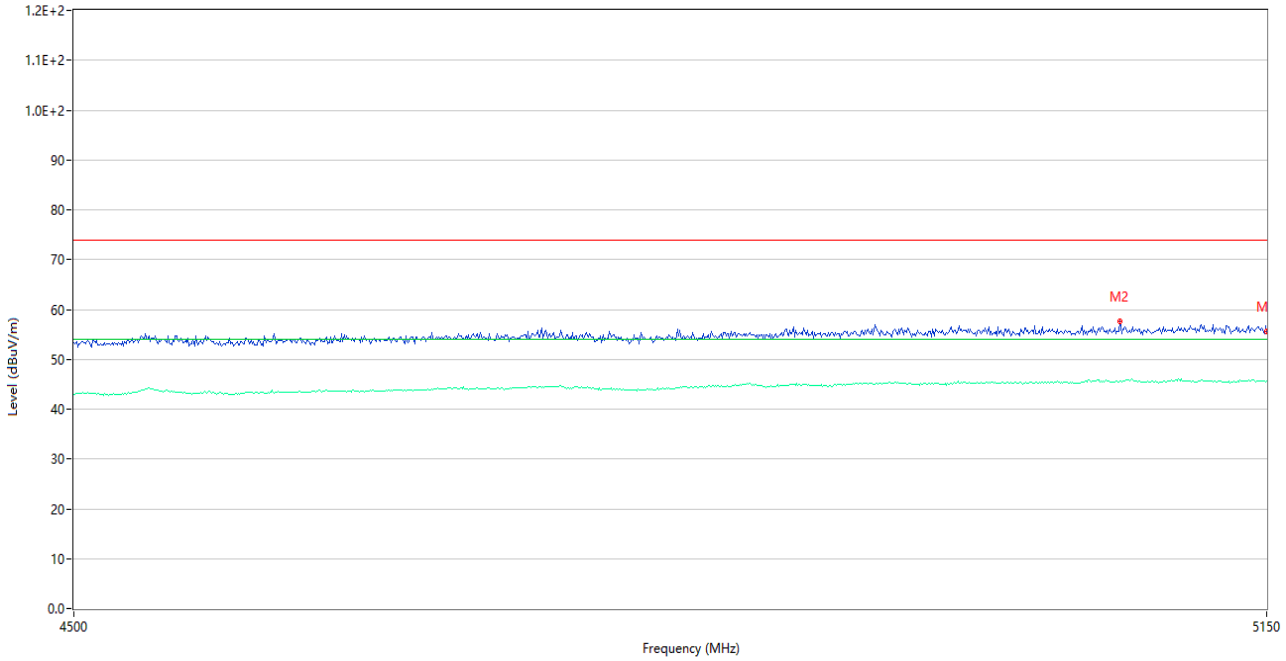
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	55.86	5.40	74.0	18.14	Peak	188.00	150	Vertical	Pass
1**	5350.000	45.52	5.40	54.0	8.48	AV	188.00	150	Vertical	Pass
2	5422.050	57.76	5.33	74.0	16.24	Peak	51.00	150	Vertical	Pass
2**	5422.050	45.53	5.33	54.0	8.47	AV	51.00	150	Vertical	Pass

U-NII-1 11a CH48, ANT H



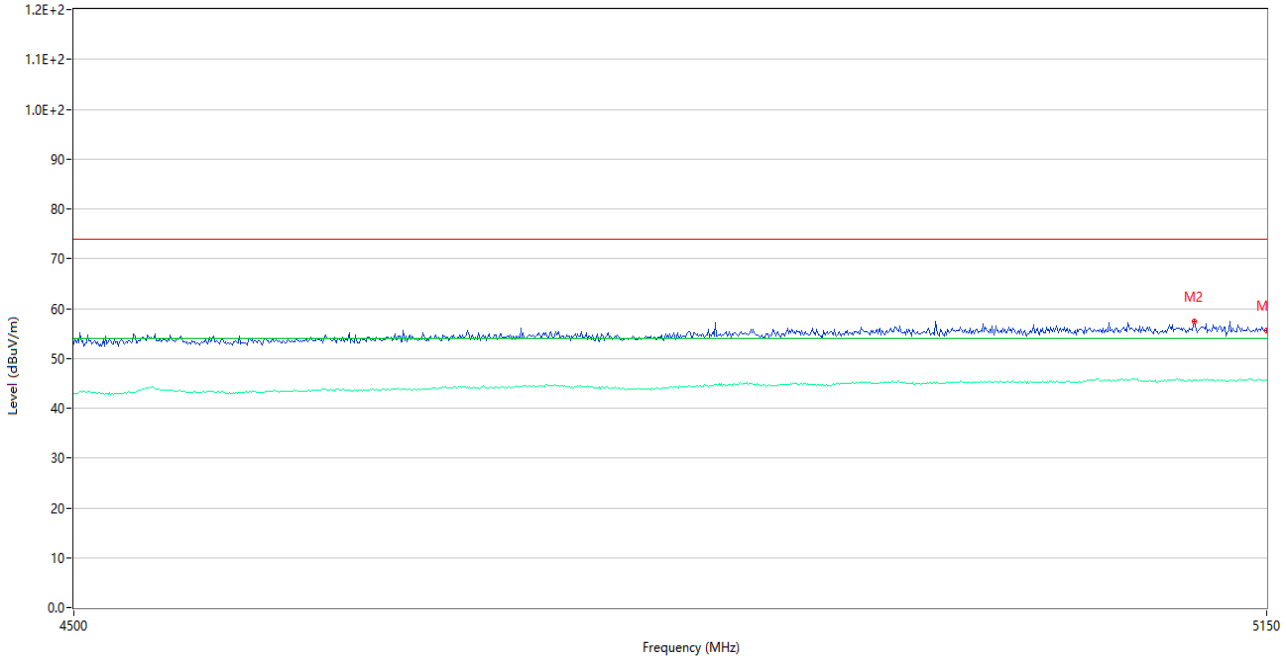
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	55.97	5.40	74.0	18.03	Peak	81.00	150	Horizontal	Pass
1**	5350.000	45.62	5.40	54.0	8.38	AV	81.00	150	Horizontal	Pass
2	5447.900	57.59	5.60	74.0	16.41	Peak	0.00	150	Horizontal	Pass
2**	5447.900	45.85	5.60	54.0	8.15	AV	0.00	150	Horizontal	Pass

U-NII-1 11n20 CH36, ANT V



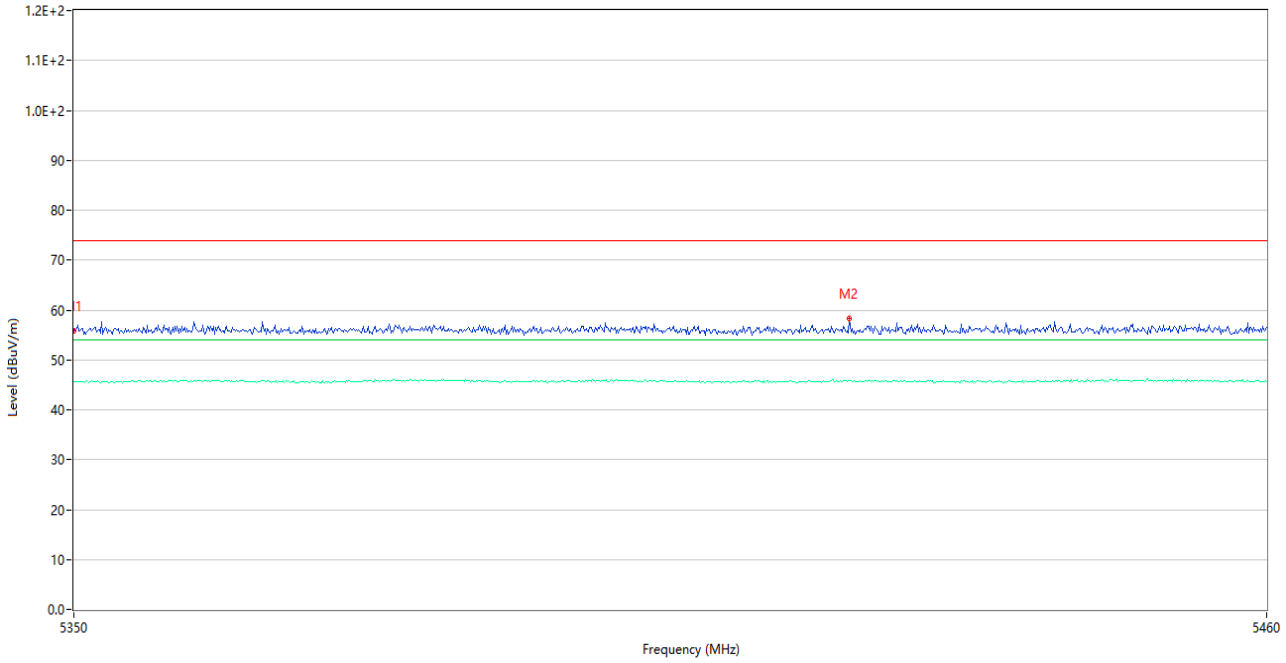
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5150.000	55.60	5.21	74.0	18.40	Peak	0.03	150	Vertical	Pass
1**	5150.000	45.65	5.21	54.0	8.35	AV	0.03	150	Vertical	Pass
2	5065.500	57.55	5.13	74.0	16.45	Peak	352.00	150	Vertical	Pass
2**	5065.500	45.67	5.13	54.0	8.33	AV	352.00	150	Vertical	Pass

U-NII-1 11n20 CH36, ANT H



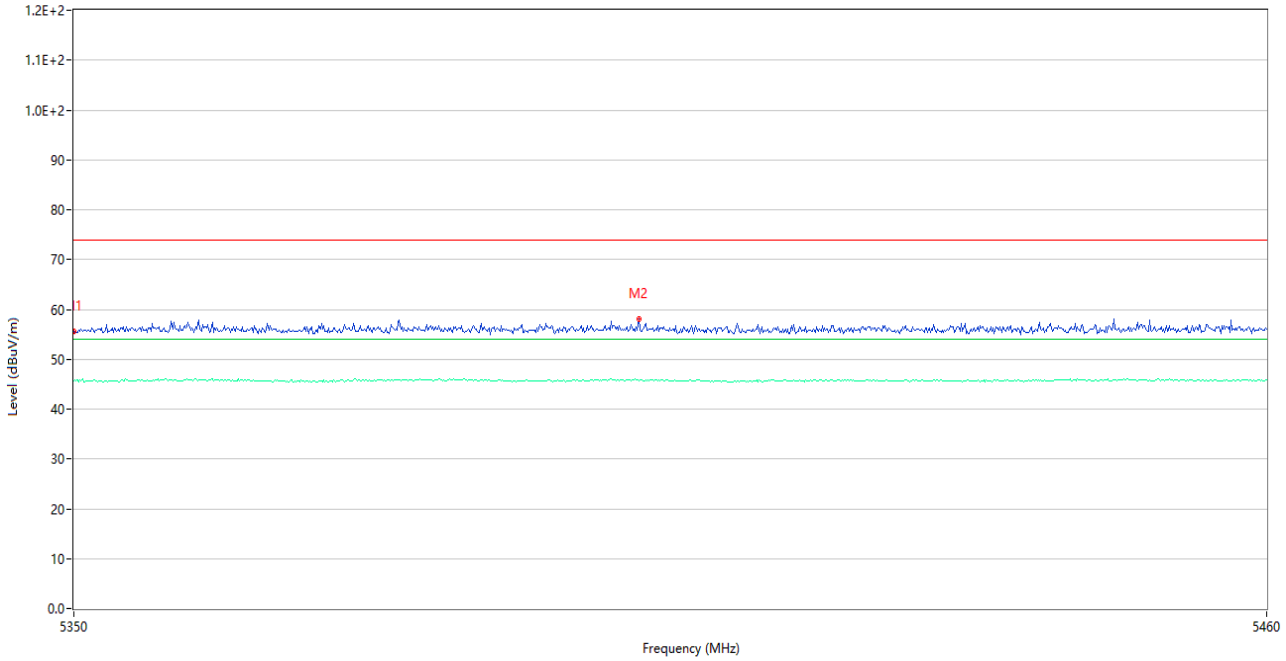
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5150.000	55.62	5.21	74.0	18.38	Peak	258.99	150	Horizontal	Pass
1**	5150.000	45.66	5.21	54.0	8.34	AV	258.99	150	Horizontal	Pass
2	5107.750	57.48	5.06	74.0	16.52	Peak	360.00	150	Horizontal	Pass
2**	5107.750	45.57	5.06	54.0	8.43	AV	360.00	150	Horizontal	Pass

U-NII-1 11n20 CH48, ANT V



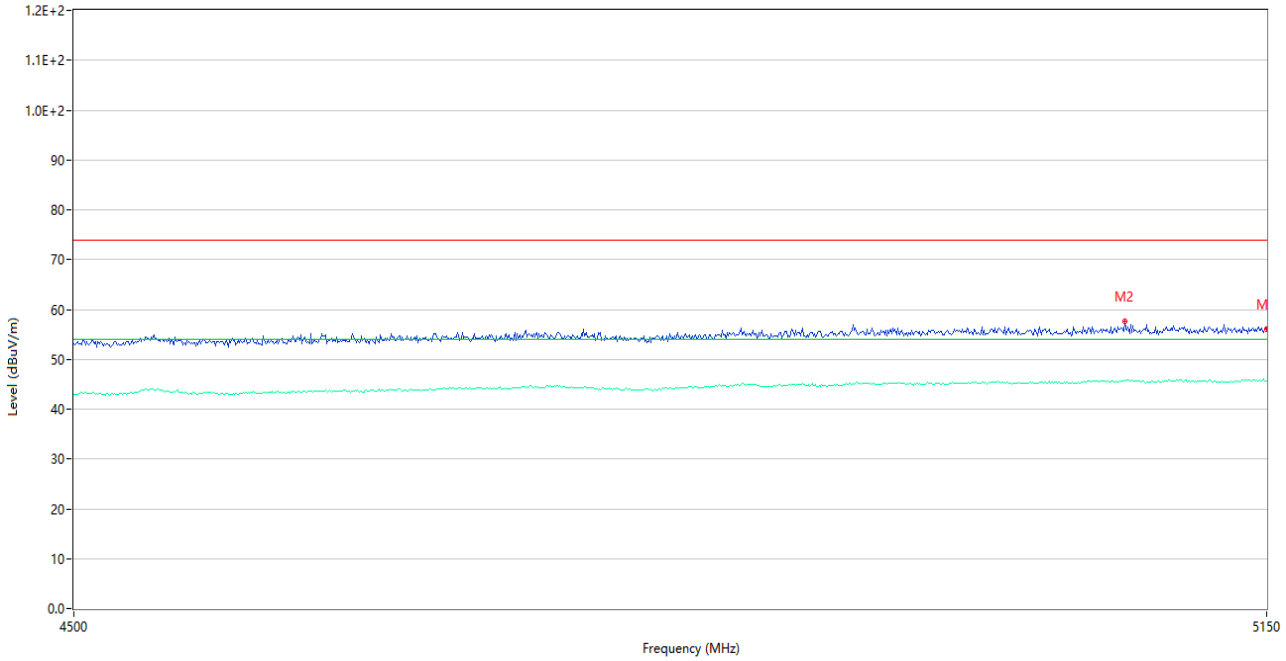
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	55.80	5.40	74.0	18.20	Peak	103.00	150	Vertical	Pass
1**	5350.000	45.56	5.40	54.0	8.44	AV	103.00	150	Vertical	Pass
2	5421.280	58.30	5.33	74.0	15.70	Peak	133.00	150	Vertical	Pass
2**	5421.280	45.80	5.33	54.0	8.20	AV	133.00	150	Vertical	Pass

U-NII-1 11n20 CH48, ANT H



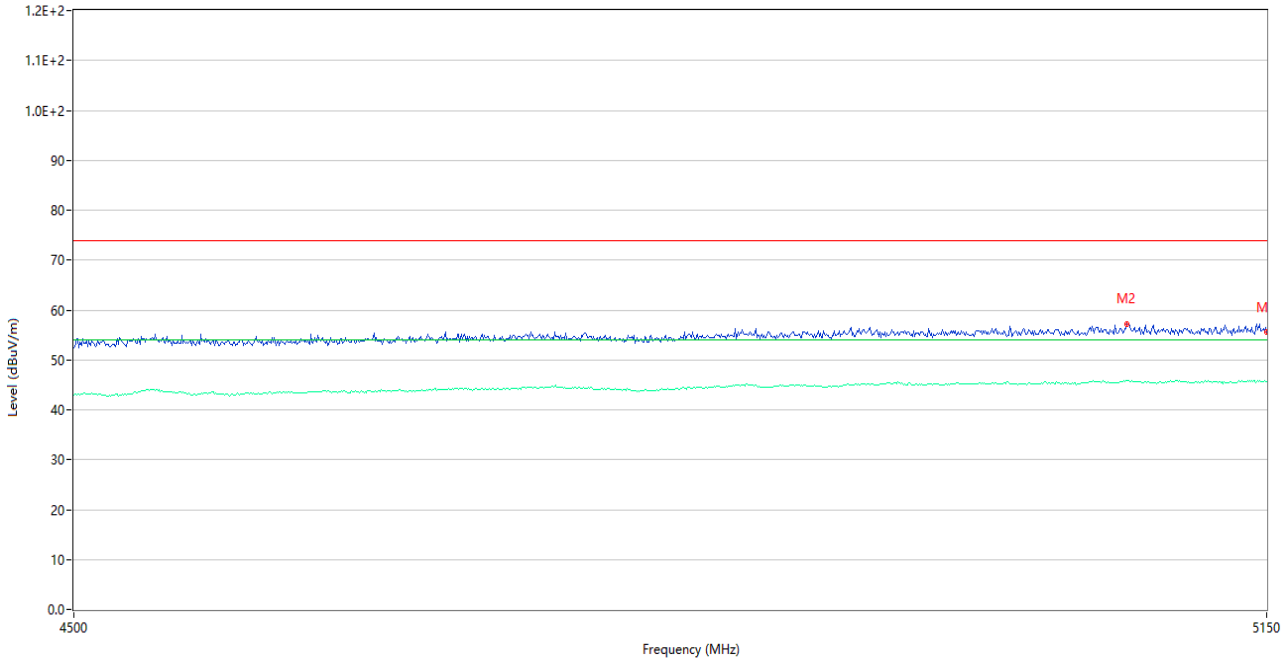
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	55.60	5.40	74.0	18.40	Peak	149.00	150	Horizontal	Pass
1**	5350.000	45.76	5.40	54.0	8.24	AV	149.00	150	Horizontal	Pass
2	5401.810	58.19	5.64	74.0	15.81	Peak	80.00	150	Horizontal	Pass
2**	5401.810	45.70	5.64	54.0	8.30	AV	80.00	150	Horizontal	Pass

U-NII-1 11n40 CH38, ANT V



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5150.000	55.40	5.21	74.0	18.60	Peak	306.99	150	Vertical	Pass
1**	5150.000	45.50	5.21	54.0	8.50	AV	306.99	150	Vertical	Pass
2	5068.100	57.64	5.21	74.0	16.36	Peak	314.00	150	Vertical	Pass
2**	5068.100	45.83	5.21	54.0	8.17	AV	314.00	150	Vertical	Pass

U-NII-1 11n40 CH38, ANT H

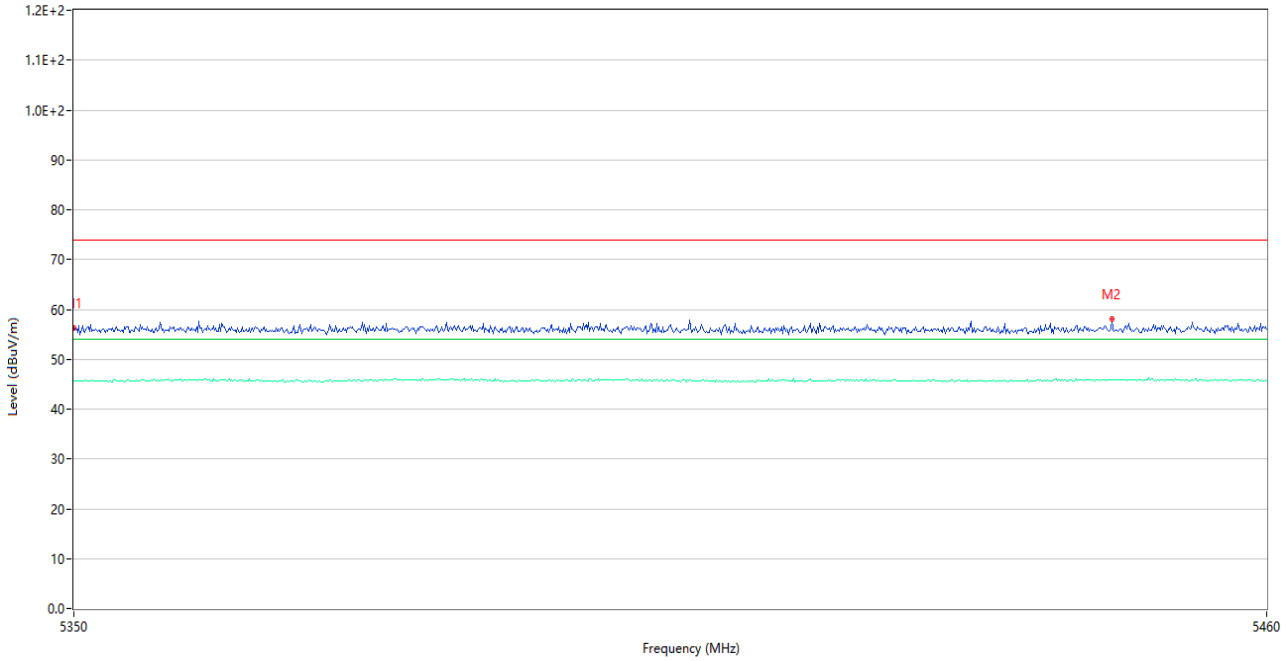


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5150.000	55.60	5.21	74.0	18.40	Peak	280.94	150	Horizontal	Pass
1**	5150.000	45.59	5.21	54.0	8.41	AV	280.94	150	Horizontal	Pass
2	5069.400	57.26	5.22	74.0	16.74	Peak	264.00	150	Horizontal	Pass
2**	5069.400	45.78	5.22	54.0	8.22	AV	264.00	150	Horizontal	Pass

U-NII-1 11n40 CH46, ANT V

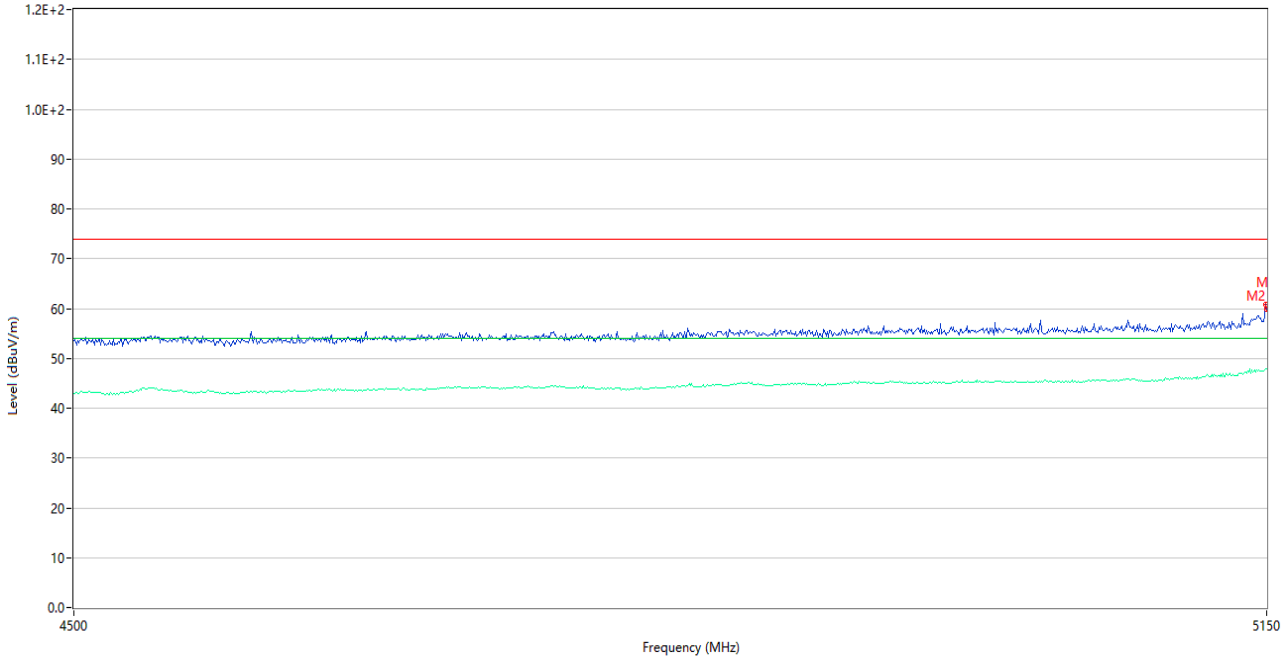
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	55.64	5.40	74.0	18.36	Peak	58.00	150	Vertical	Pass
1**	5350.000	45.67	5.40	54.0	8.33	AV	58.00	150	Vertical	Pass
2	5350.990	58.17	5.43	74.0	15.83	Peak	335.00	150	Vertical	Pass
2**	5350.990	45.56	5.43	54.0	8.44	AV	335.00	150	Vertical	Pass

U-NII-1 11n40 CH46, ANT H



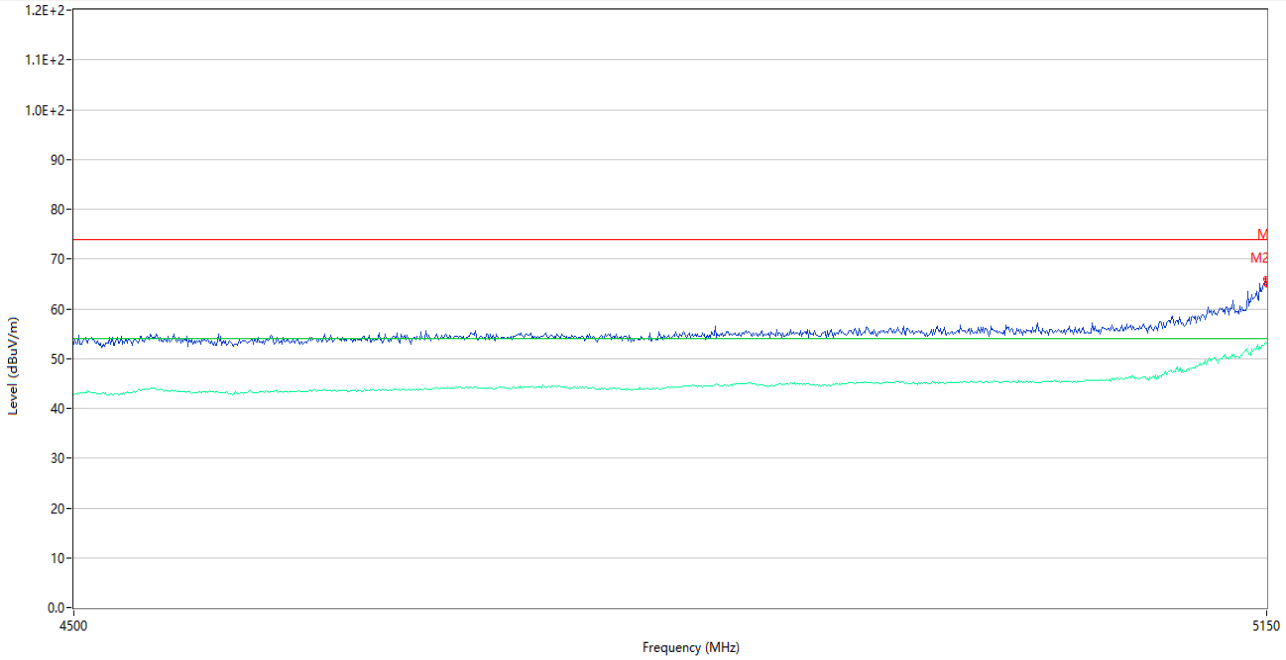
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	56.05	5.40	74.0	17.95	Peak	114.00	150	Horizontal	Pass
1**	5350.000	45.50	5.40	54.0	8.50	AV	114.00	150	Horizontal	Pass
2	5445.590	58.04	5.60	74.0	15.96	Peak	108.00	150	Horizontal	Pass
2**	5445.590	45.93	5.60	54.0	8.07	AV	108.00	150	Horizontal	Pass

U-NII-1 11ac80 CH42, ANT V



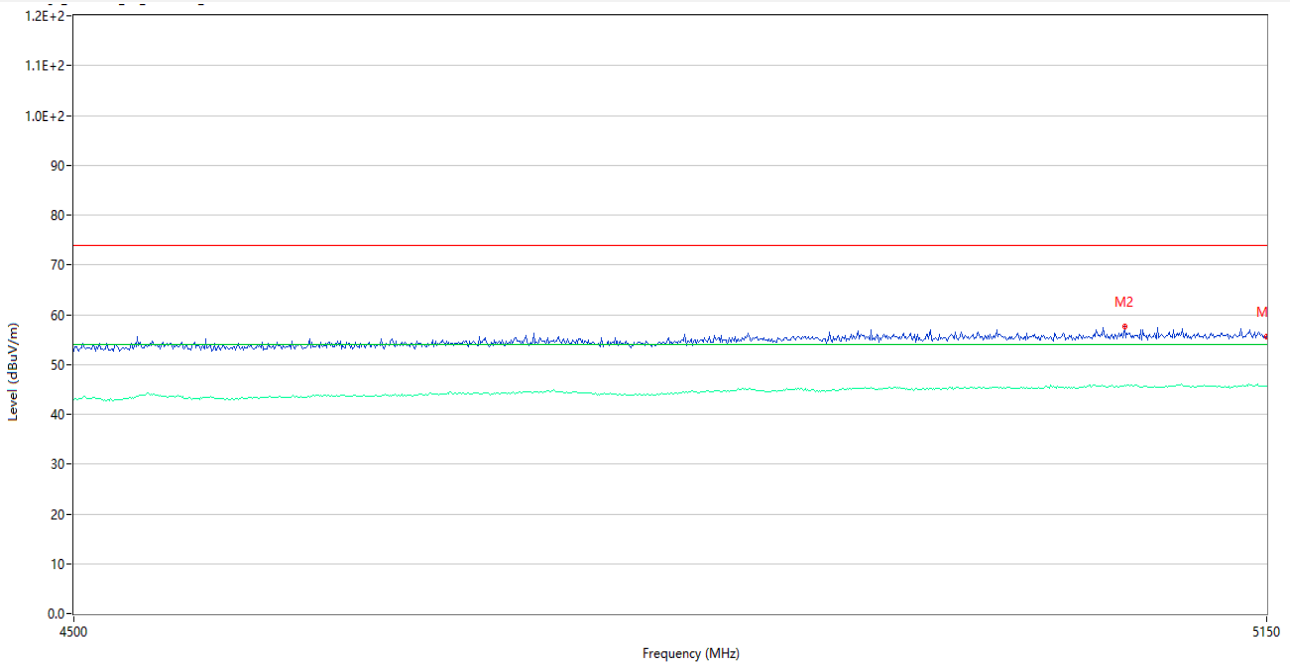
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5150.000	59.86	5.21	74.0	14.14	Peak	0.01	150	Vertical	Pass
1**	5150.000	47.95	5.21	54.0	6.05	AV	0.01	150	Vertical	Pass
2	5149.350	60.72	5.21	74.0	13.28	Peak	75.00	150	Vertical	Pass
2**	5149.350	47.82	5.21	54.0	6.18	AV	75.00	150	Vertical	Pass

U-NII-1 11ac80 CH42, ANT H



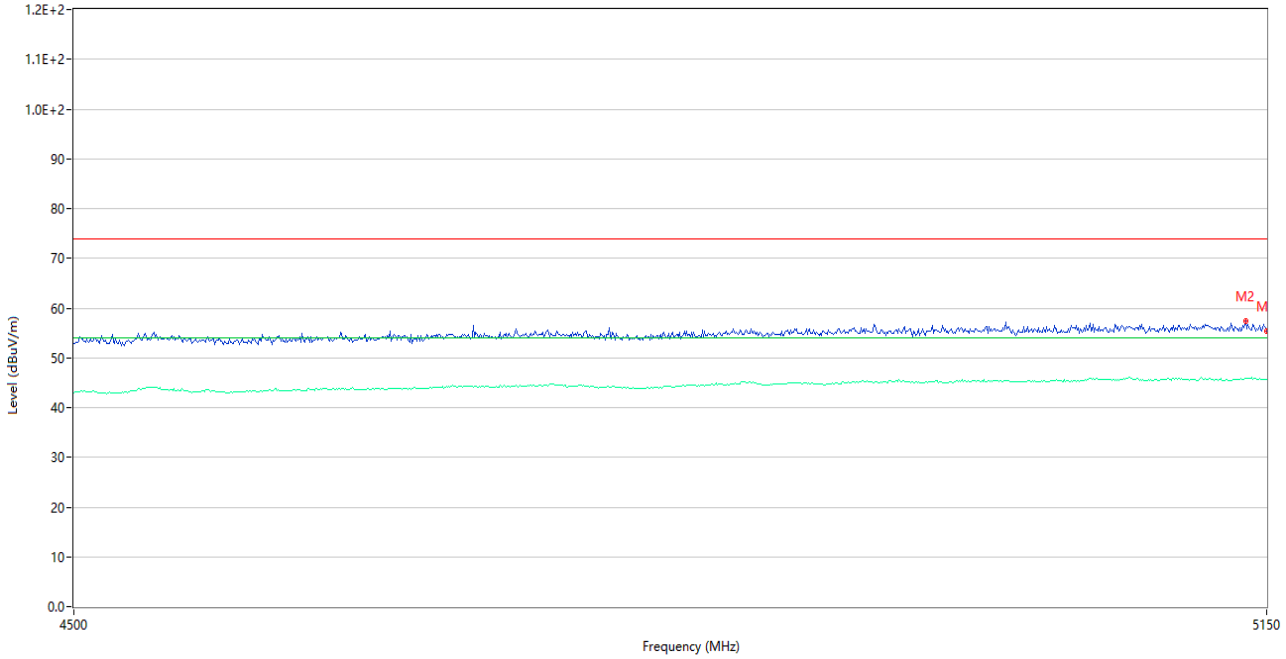
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5150.000	64.76	5.21	74.0	9.24	Peak	39.00	150	Horizontal	Pass
1**	5150.000	53.08	5.21	54.0	0.92	AV	39.00	150	Horizontal	Pass
2	5149.350	65.88	5.21	74.0	8.12	Peak	52.00	150	Horizontal	Pass
2**	5149.350	53.42	5.21	54.0	0.58	AV	52.00	150	Horizontal	Pass

U-NII-2A 11a CH52, ANT V



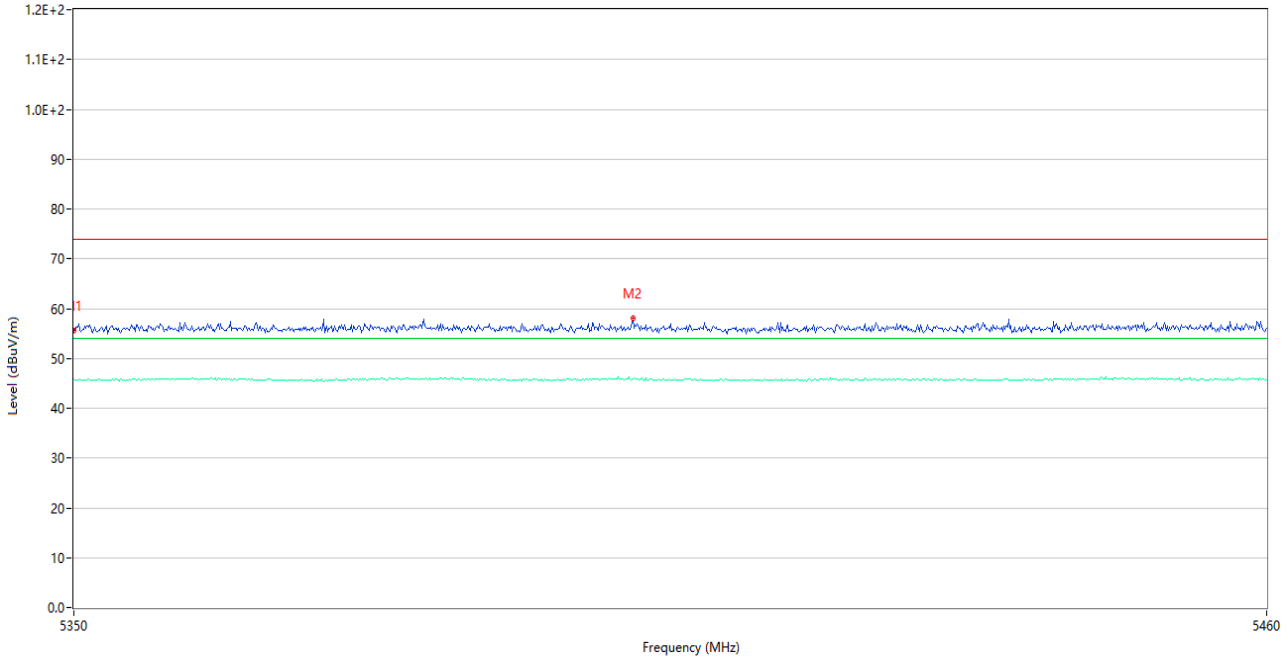
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5150.000	55.61	5.21	74.0	18.39	Peak	286.00	150	Vertical	Pass
1**	5150.000	45.66	5.21	54.0	8.34	AV	286.00	150	Vertical	Pass
2	5068.100	57.56	5.21	74.0	16.44	Peak	26.00	150	Vertical	Pass
2**	5068.100	45.78	5.21	54.0	8.22	AV	26.00	150	Vertical	Pass

U-NII-2A 11a CH52, ANT H



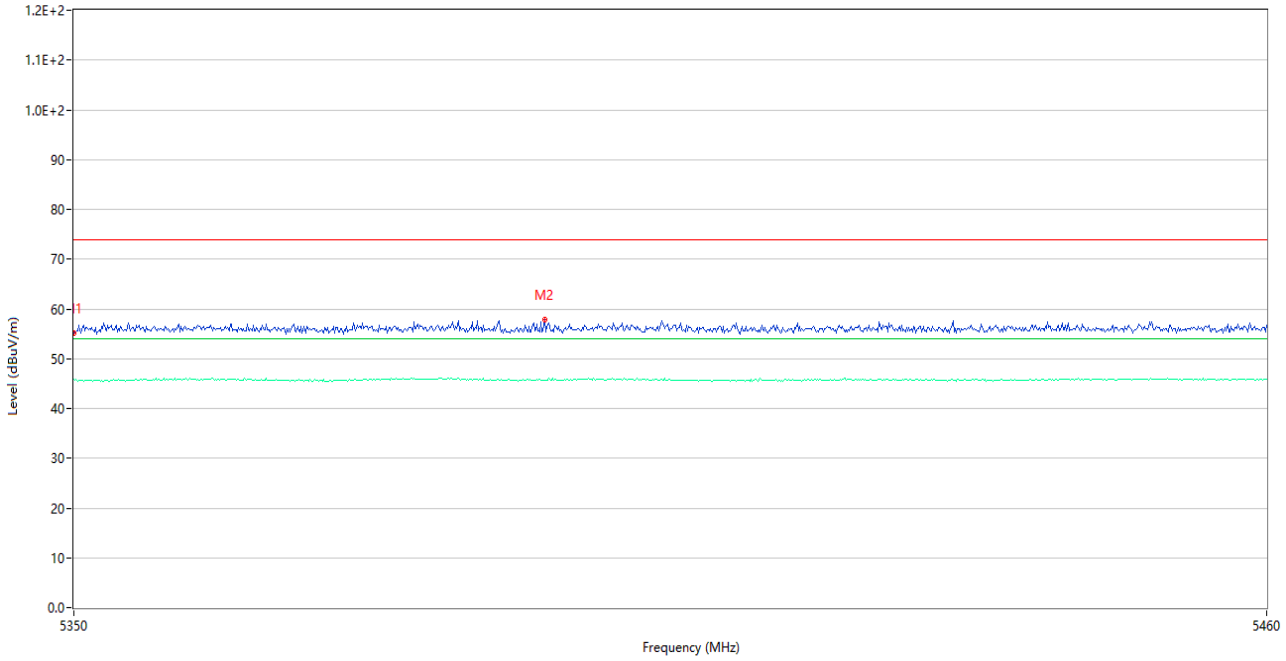
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5150.000	55.42	5.21	74.0	129.58	Peak	185.00	150	Horizontal	Pass
1**	5150.000	45.58	5.21	54.0	-45.58	AV	185.00	150	Horizontal	Pass
2	5137.650	57.36	5.53	74.0	16.64	Peak	93.00	150	Horizontal	Pass
2**	5137.650	45.79	5.53	54.0	8.21	AV	93.00	150	Horizontal	Pass

U-NII-2A 11a CH64, ANT V



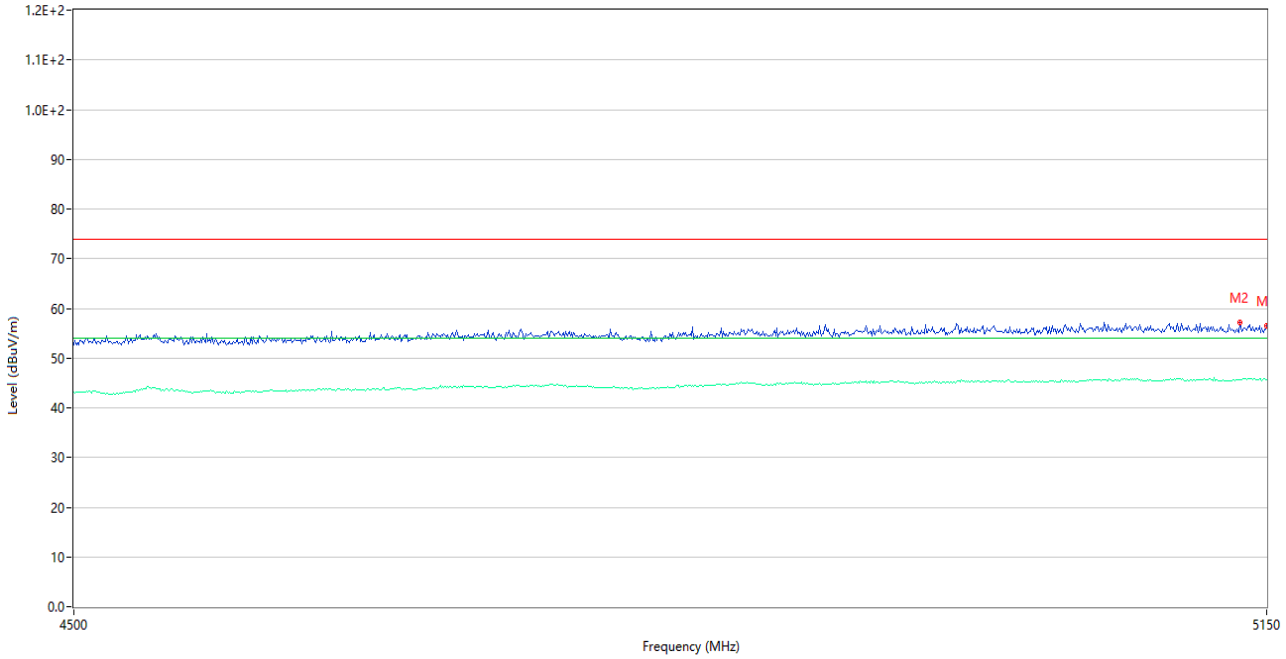
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	55.62	5.40	74.0	18.38	Peak	72.00	150	Vertical	Pass
1**	5350.000	45.82	5.40	54.0	8.18	AV	72.00	150	Vertical	Pass
2	5401.260	58.06	5.67	74.0	15.94	Peak	289.00	150	Vertical	Pass
2**	5401.260	45.89	5.67	54.0	8.11	AV	289.00	150	Vertical	Pass

U-NII-2A 11a CH64, ANT H



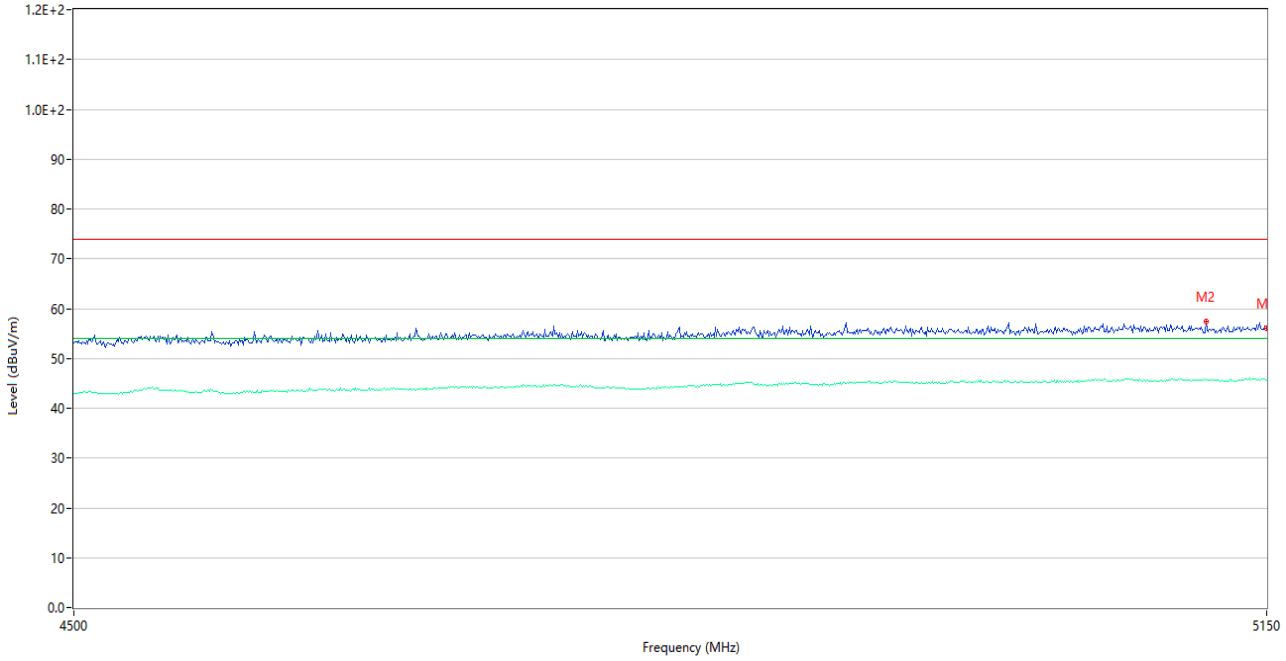
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	55.21	5.40	74.0	18.79	Peak	0.00	150	Horizontal	Pass
1**	5350.000	45.84	5.40	54.0	8.16	AV	0.00	150	Horizontal	Pass
2	5393.120	57.85	5.61	74.0	16.15	Peak	301.00	150	Horizontal	Pass
2**	5393.120	45.68	5.61	54.0	8.32	AV	301.00	150	Horizontal	Pass

U-NII-2A 11n20 CH52, ANT V



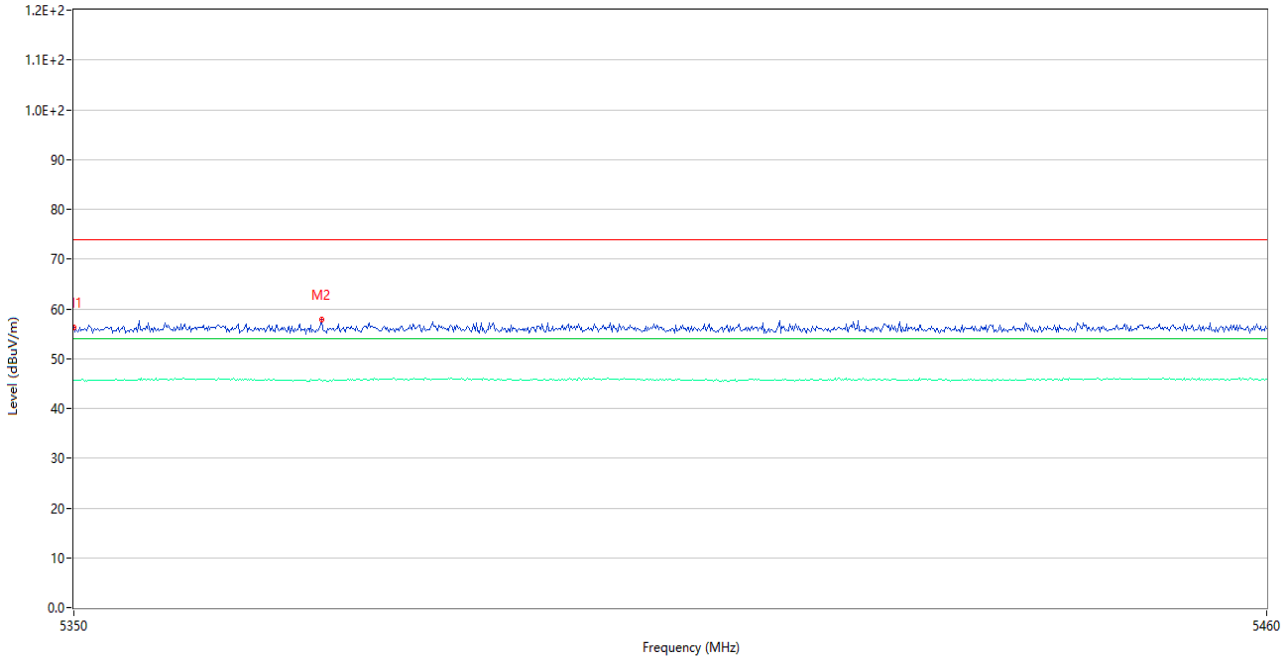
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5150.000	56.51	5.21	74.0	17.49	Peak	10.01	150	Vertical	Pass
1**	5150.000	45.62	5.21	54.0	8.38	AV	10.01	150	Vertical	Pass
2	5134.400	57.11	5.42	74.0	16.89	Peak	78.00	150	Vertical	Pass
2**	5134.400	45.62	5.42	54.0	8.38	AV	78.00	150	Vertical	Pass

U-NII-2A 11n20 CH52, ANT H



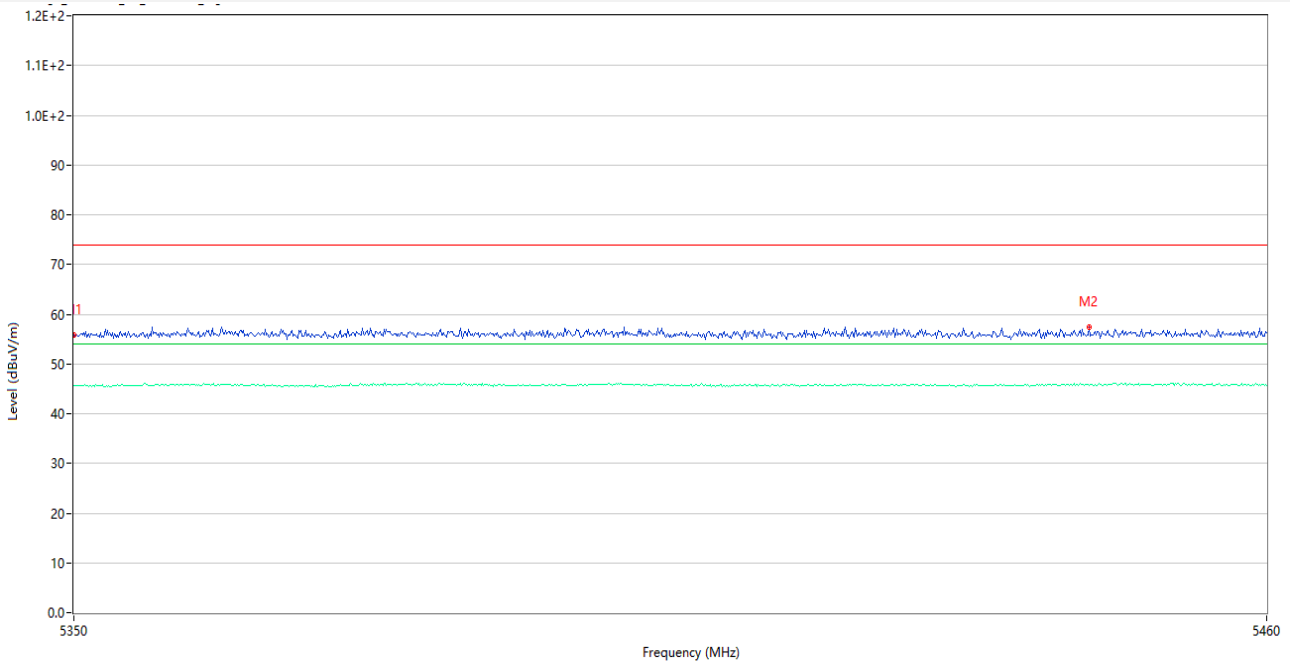
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5150.000	56.00	5.21	74.0	18.00	Peak	0.03	150	Horizontal	Pass
1**	5150.000	45.68	5.21	54.0	8.32	AV	0.03	150	Horizontal	Pass
2	5114.900	57.35	5.20	74.0	16.65	Peak	170.00	150	Horizontal	Pass
2**	5114.900	45.92	5.20	54.0	8.08	AV	170.00	150	Horizontal	Pass

U-NII-2A 11n20 CH64, ANT V



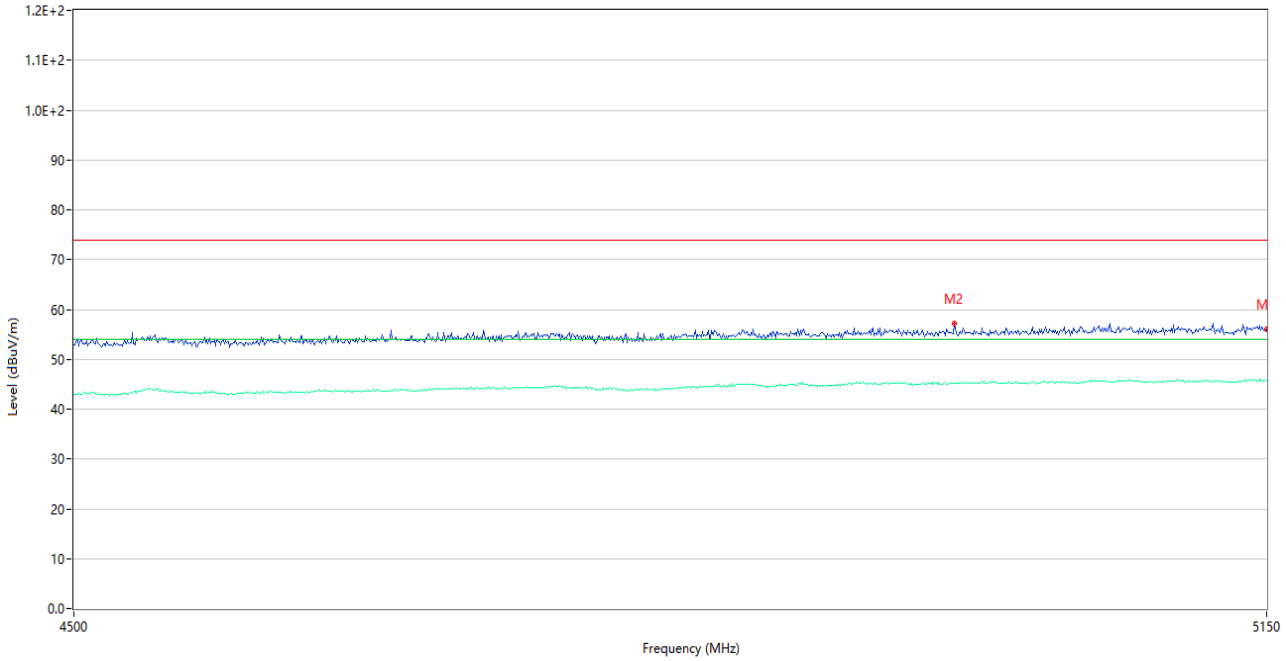
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	56.38	5.40	74.0	17.62	Peak	0.00	150	Vertical	Pass
1**	5350.000	45.66	5.40	54.0	8.34	AV	0.00	150	Vertical	Pass
2	5372.660	57.82	5.39	74.0	16.18	Peak	286.00	150	Vertical	Pass
2**	5372.660	45.72	5.39	54.0	8.28	AV	286.00	150	Vertical	Pass

U-NII-2A 11n20 CH64, ANT H



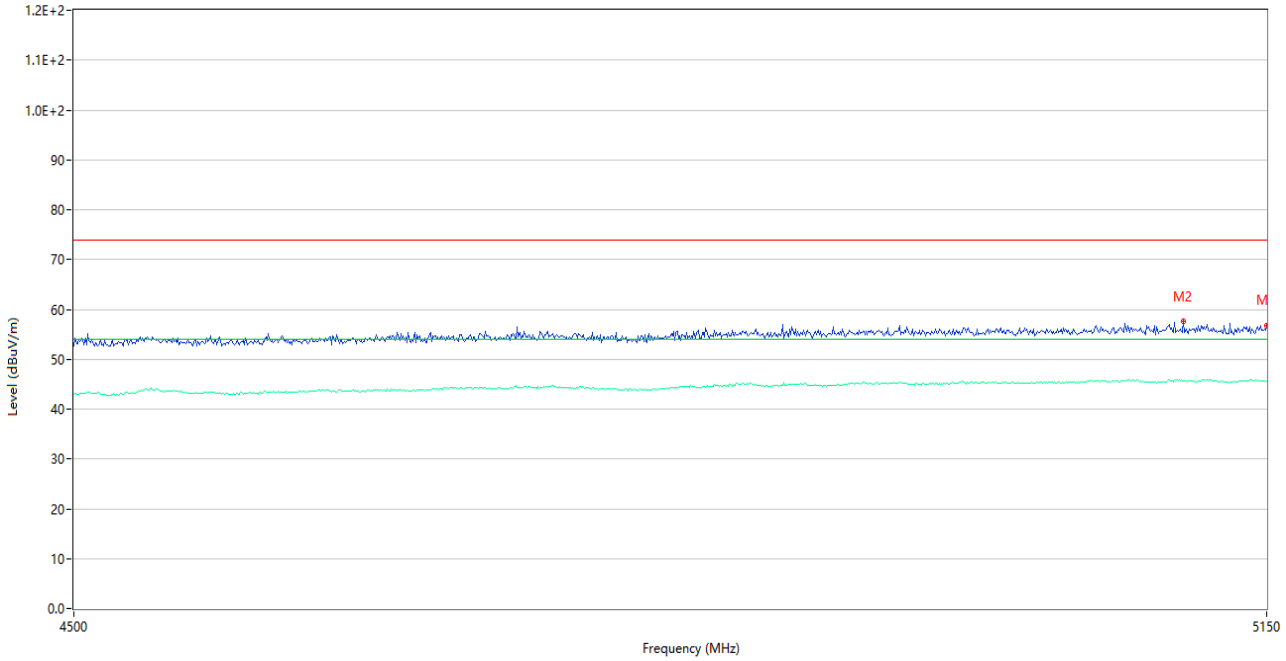
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	55.88	5.40	74.0	18.12	Peak	360.00	150	Horizontal	Pass
1**	5350.000	45.60	5.40	54.0	8.40	AV	360.00	150	Horizontal	Pass
2	5443.500	57.51	5.55	74.0	16.49	Peak	224.00	150	Horizontal	Pass
2**	5443.500	45.76	5.55	54.0	8.24	AV	224.00	150	Horizontal	Pass

U-NII-2A 11n40 CH54, ANT V



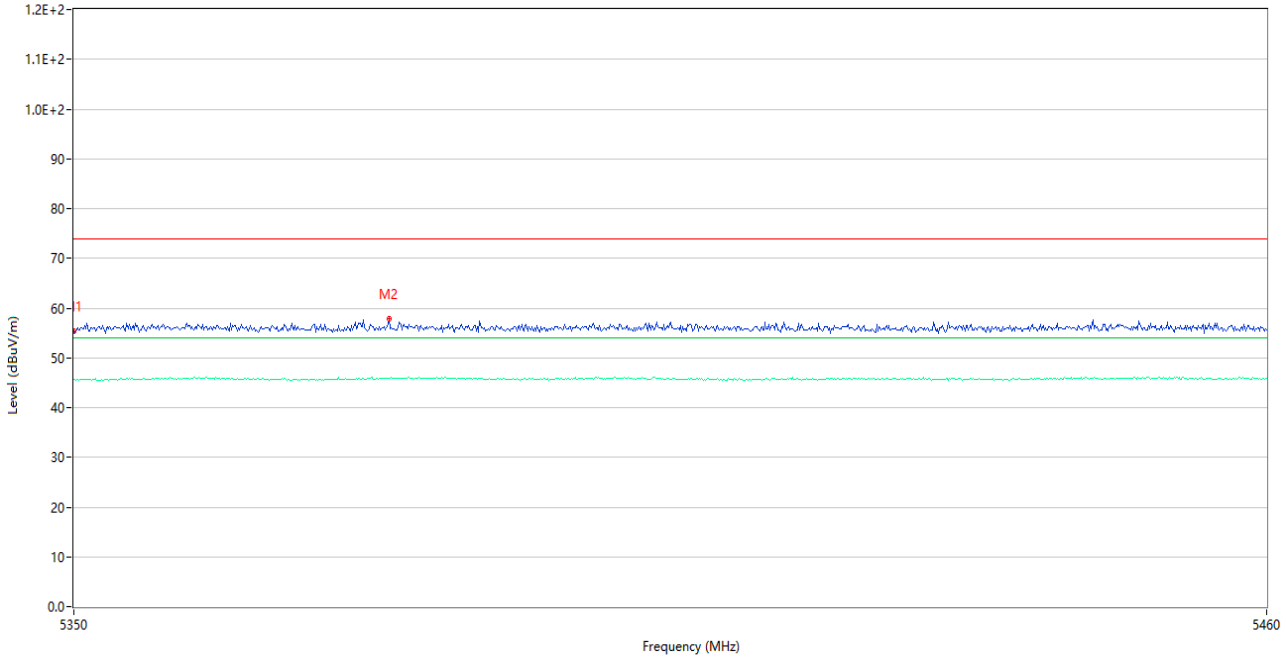
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5150.000	56.01	5.21	74.0	17.99	Peak	196.00	150	Vertical	Pass
1**	5150.000	45.64	5.21	54.0	8.36	AV	196.00	150	Vertical	Pass
2	4971.250	57.23	5.03	74.0	16.77	Peak	291.00	150	Vertical	Pass
2**	4971.250	45.22	5.03	54.0	8.78	AV	291.00	150	Vertical	Pass

U-NII-2A 11n40 CH54, ANT H



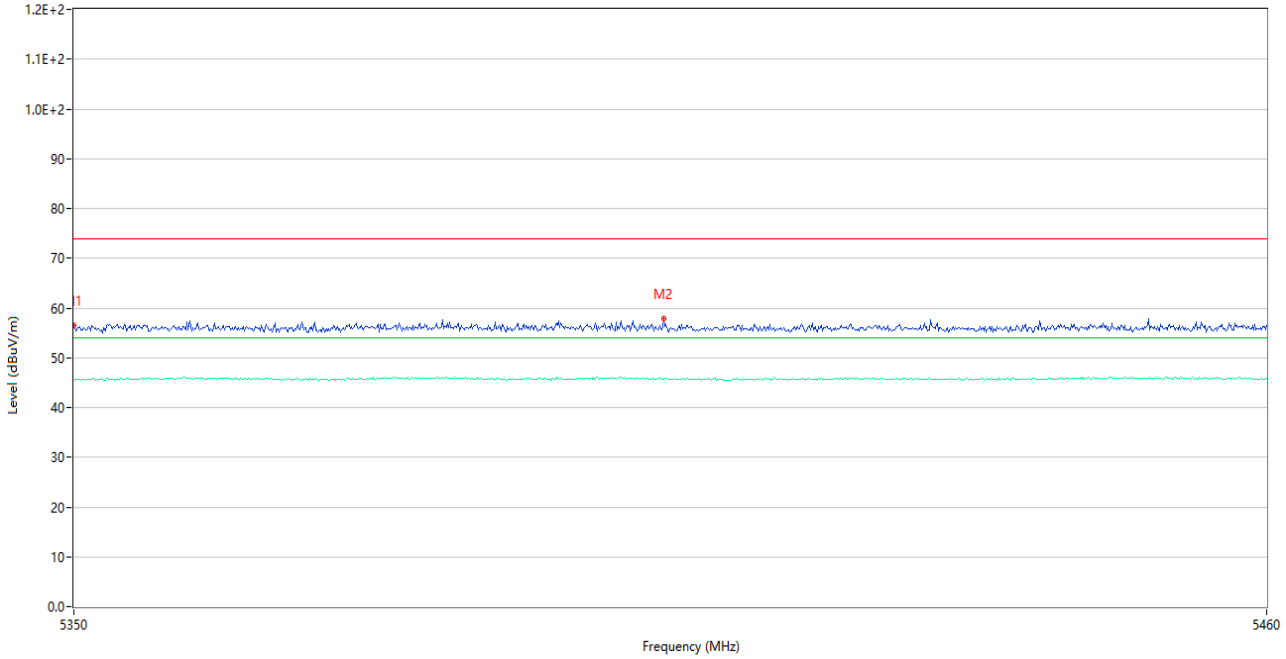
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5150.000	56.81	5.21	74.0	17.19	Peak	360.00	150	Horizontal	Pass
1**	5150.000	45.70	5.21	54.0	8.30	AV	360.00	150	Horizontal	Pass
2	5101.900	57.68	5.27	74.0	16.32	Peak	360.00	150	Horizontal	Pass
2**	5101.900	45.71	5.27	54.0	8.29	AV	360.00	150	Horizontal	Pass

U-NII-2A 11n40 CH62, ANT V



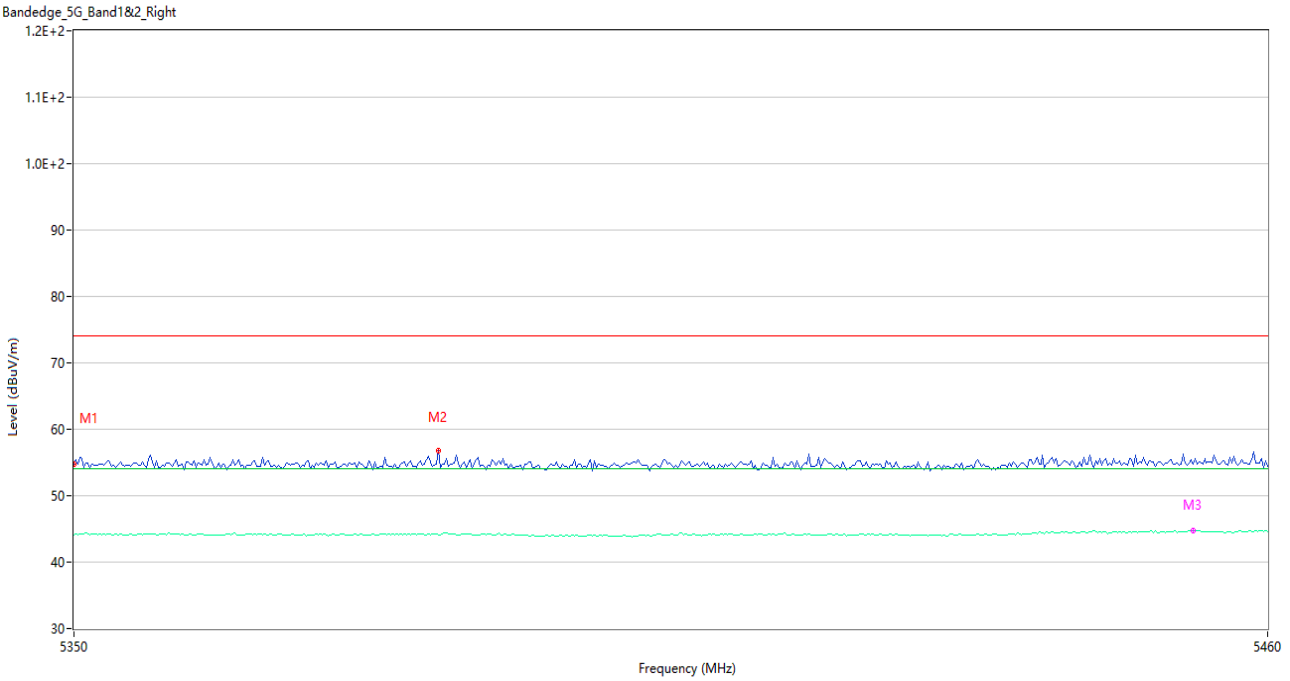
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	55.47	5.40	74.0	18.53	Peak	360.00	150	Vertical	Pass
1**	5350.000	45.68	5.40	54.0	8.32	AV	360.00	150	Vertical	Pass
2	5378.820	57.91	5.66	74.0	16.09	Peak	287.00	150	Vertical	Pass
2**	5378.820	45.82	5.66	54.0	8.18	AV	287.00	150	Vertical	Pass

U-NII-2A 11n40 CH62, ANT H



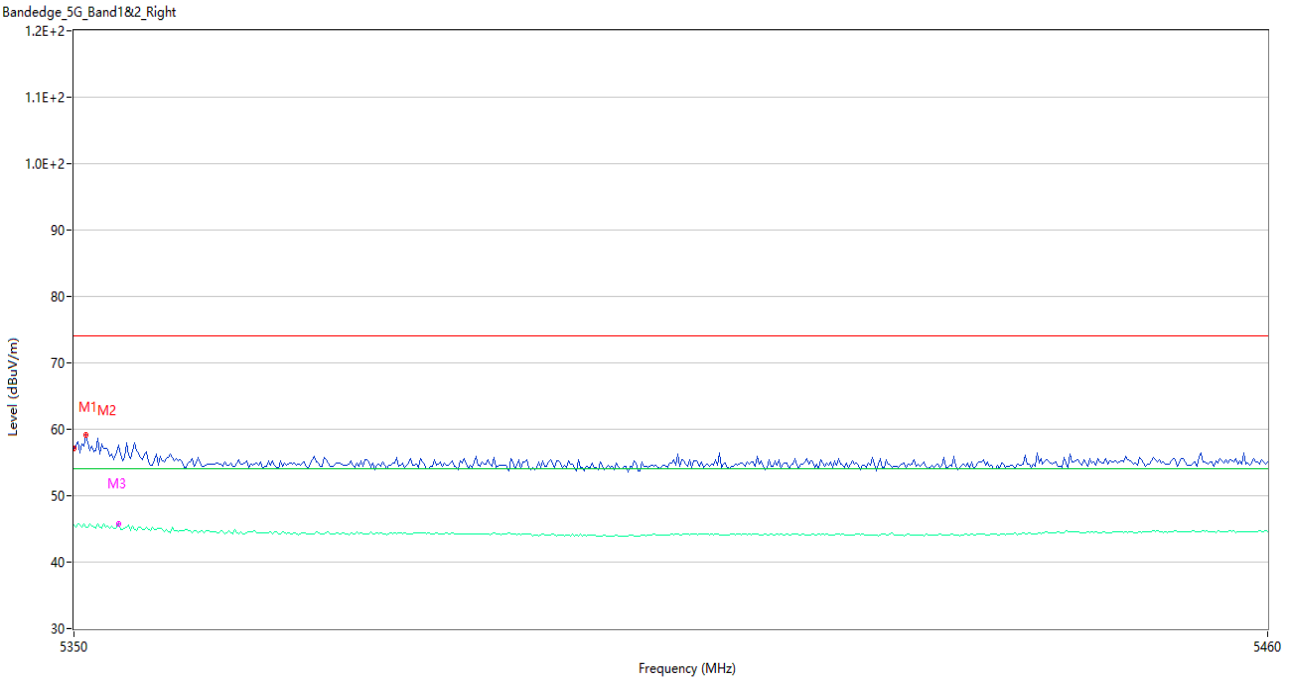
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	56.48	5.40	74.0	17.52	Peak	163.00	150	Horizontal	Pass
1**	5350.000	45.53	5.40	54.0	8.47	AV	163.00	150	Horizontal	Pass
2	5404.120	57.84	5.49	74.0	16.16	Peak	13.00	150	Horizontal	Pass
2**	5404.120	45.72	5.49	54.0	8.28	AV	13.00	150	Horizontal	Pass

U-NII-2A 11ac80 CH58, ANT V



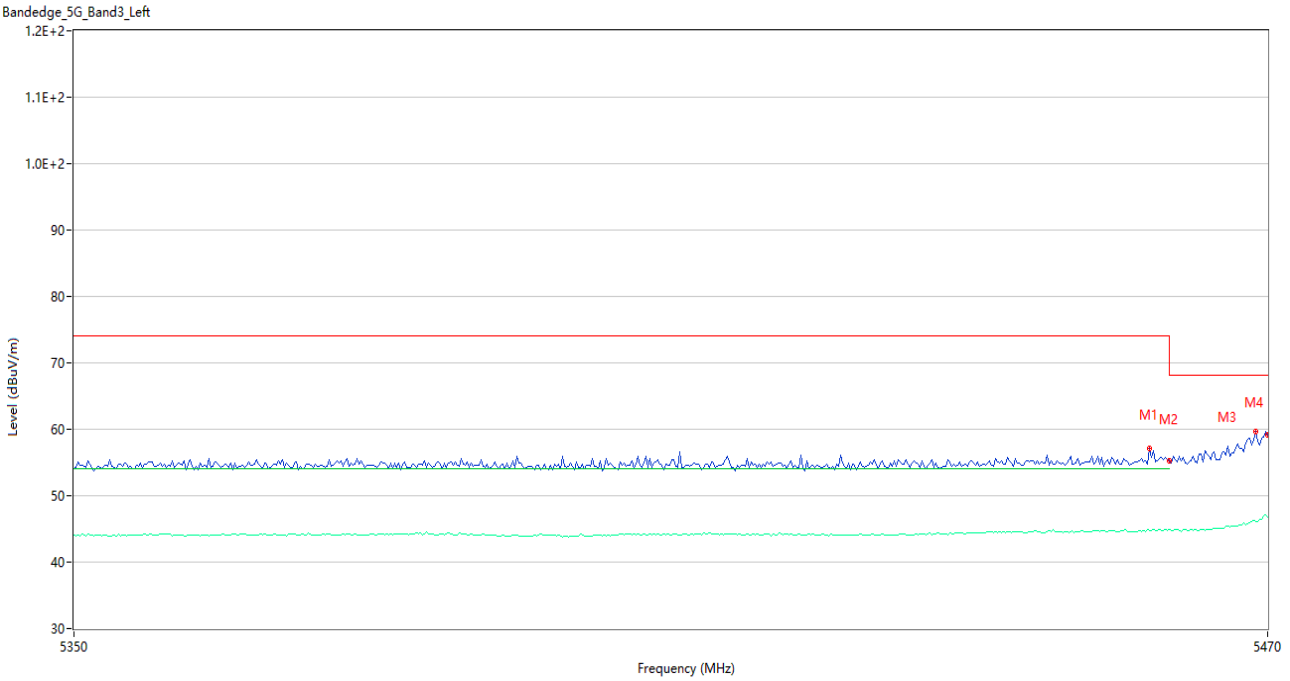
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	54.73	0.85	74.0	19.27	Peak	360.00	150	Vertical	Pass
1**	5350.000	44.14	0.85	54.0	9.86	AV	360.00	150	Vertical	Pass
2	5383.367	56.79	0.87	74.0	17.21	Peak	119.00	150	Vertical	Pass
2**	5383.367	44.08	0.87	54.0	9.92	AV	119.00	150	Vertical	Pass
3	5453.033	54.80	1.28	74.0	19.20	Peak	128.00	150	Vertical	Pass
3**	5453.033	44.82	1.28	54.0	9.18	AV	128.00	150	Vertical	Pass

U-NII-2A 11ac80 CH58, ANT H



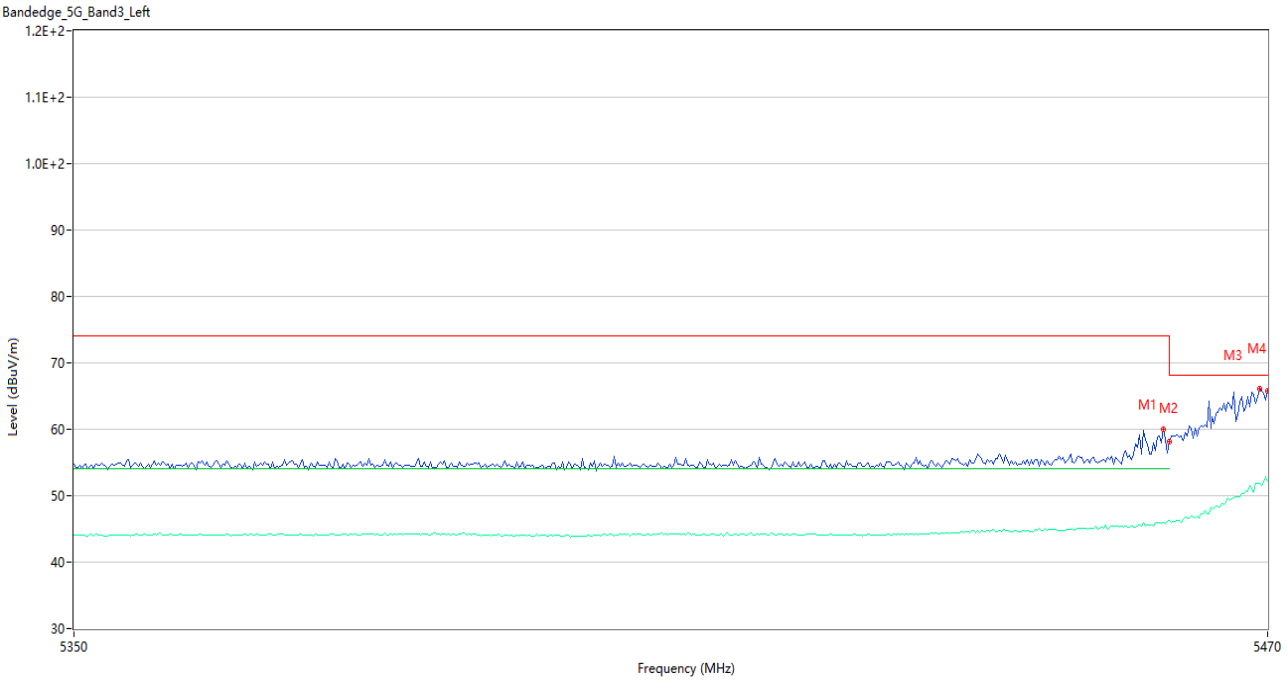
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	57.15	0.85	74.0	16.85	Peak	43.00	150	Horizontal	Pass
1**	5350.000	45.56	0.85	54.0	8.44	AV	43.00	150	Horizontal	Pass
2	5351.100	59.18	0.86	74.0	14.82	Peak	43.00	150	Horizontal	Pass
2**	5351.100	45.32	0.86	54.0	8.68	AV	43.00	150	Horizontal	Pass
3	5354.033	57.56	0.81	74.0	16.44	Peak	43.00	150	Horizontal	Pass
3**	5354.033	45.84	0.81	54.0	8.16	AV	43.00	150	Horizontal	Pass

U-NII-2C 11a CH100, ANT V



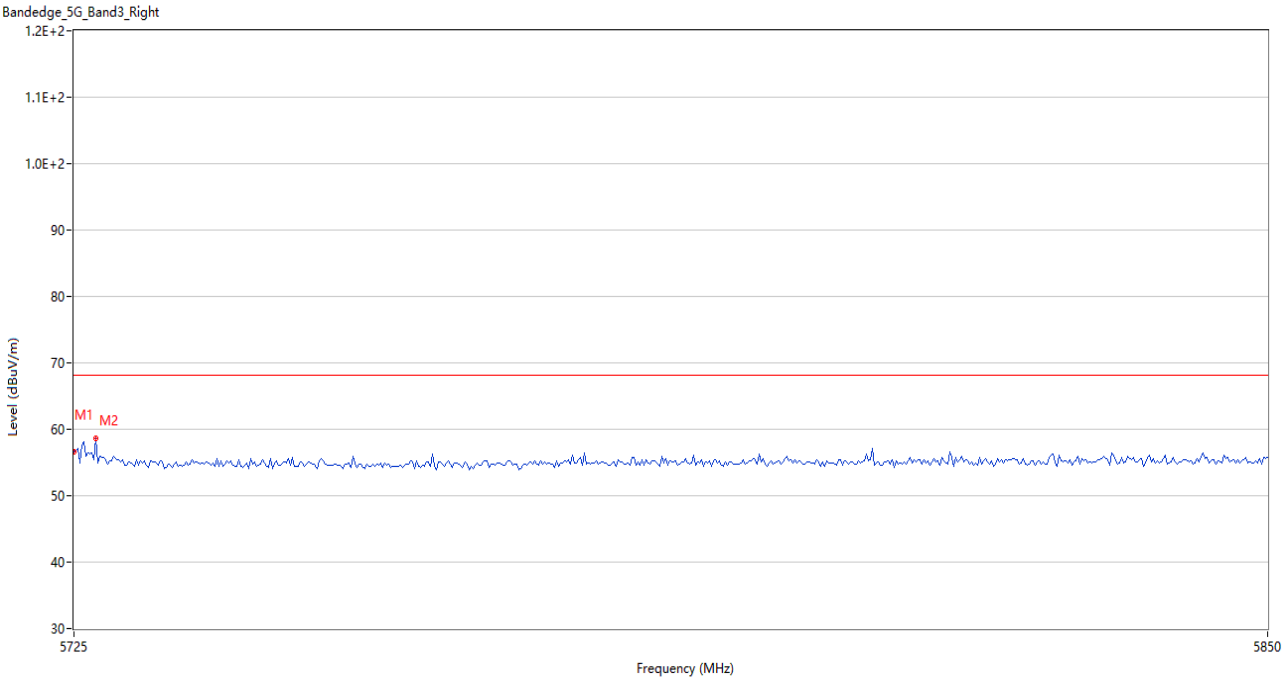
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5458.000	57.17	1.20	74.0	16.83	Peak	234.00	150	Vertical	Pass
1**	5458.000	44.79	1.20	54.0	9.21	AV	234.00	150	Vertical	Pass
2	5460.000	55.26	1.23	74.0	18.74	Peak	282.00	150	Vertical	Pass
2**	5460.000	44.97	1.23	54.0	9.03	AV	282.00	150	Vertical	Pass
3	5468.800	59.74	1.35	68.2	8.46	Peak	53.00	150	Vertical	Pass
3**	5468.800	46.07	1.35	--	-46.07	AV	53.00	150	Vertical	N/A
4	5470.000	59.13	1.37	68.2	9.07	Peak	4.00	150	Vertical	Pass
4**	5470.000	46.81	1.37	--	-46.81	AV	4.00	150	Vertical	N/A

U-NII-2C 11a CH100, ANT H



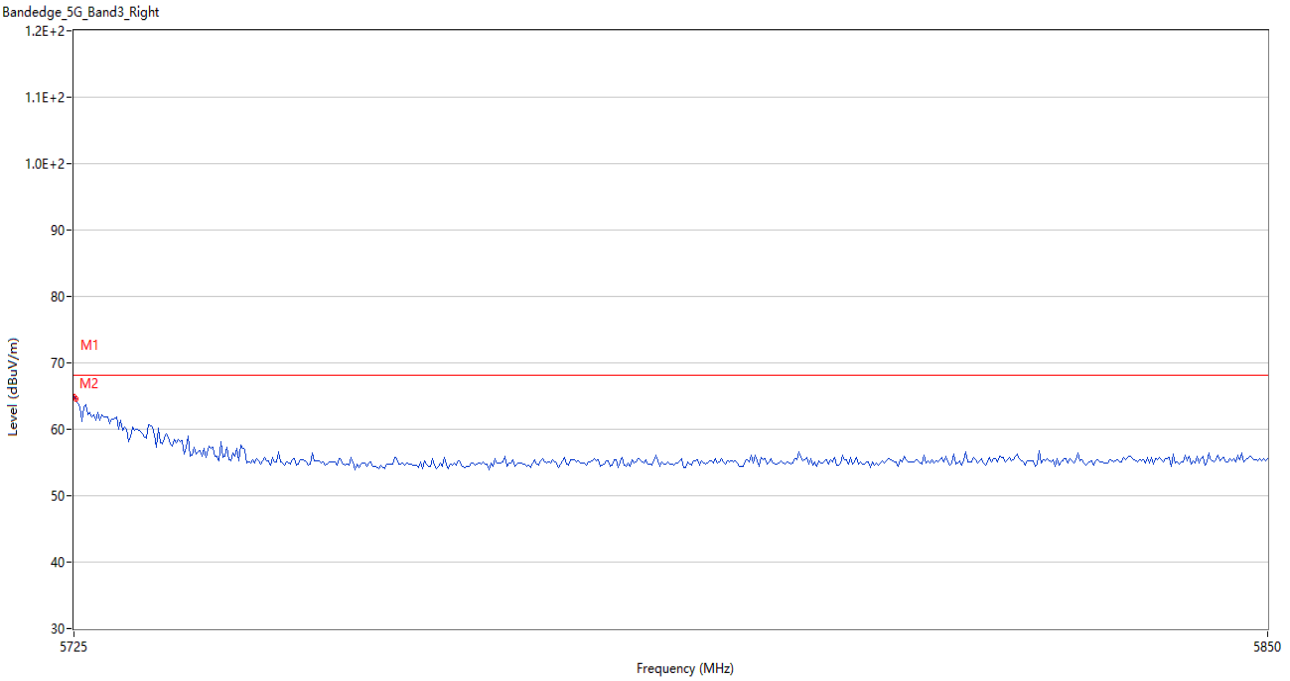
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5459.400	59.96	1.24	74.0	14.04	Peak	44.00	150	Horizontal	Pass
1**	5459.400	45.96	1.24	54.0	8.04	AV	44.00	150	Horizontal	Pass
2	5460.000	58.22	1.23	74.0	15.78	Peak	29.00	150	Horizontal	Pass
2**	5460.000	46.21	1.23	54.0	7.79	AV	29.00	150	Horizontal	Pass
3	5469.200	66.11	1.36	68.2	2.09	Peak	32.00	150	Horizontal	Pass
3**	5469.200	51.93	1.36	--	--	AV	32.00	150	Horizontal	N/A
4	5470.000	65.68	1.37	68.2	2.52	Peak	32.00	150	Horizontal	Pass
4**	5470.000	52.23	1.37	--	--	AV	32.00	150	Horizontal	N/A

U-NII-2C 11a CH140, ANT V



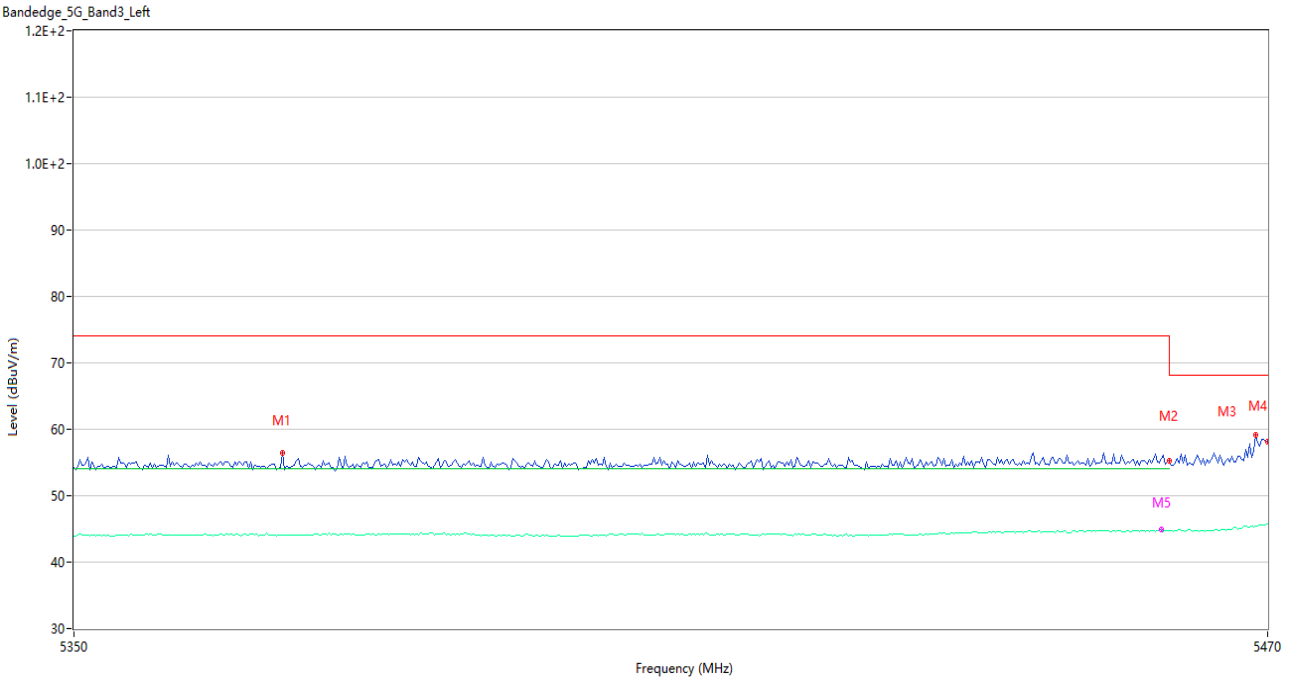
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5725.000	56.58	0.63	68.2	11.62	Peak	0.00	150	Vertical	Pass
2	5727.291	58.61	0.64	68.2	9.59	Peak	360.00	150	Vertical	Pass

U-NII-2C 11a CH140, ANT H



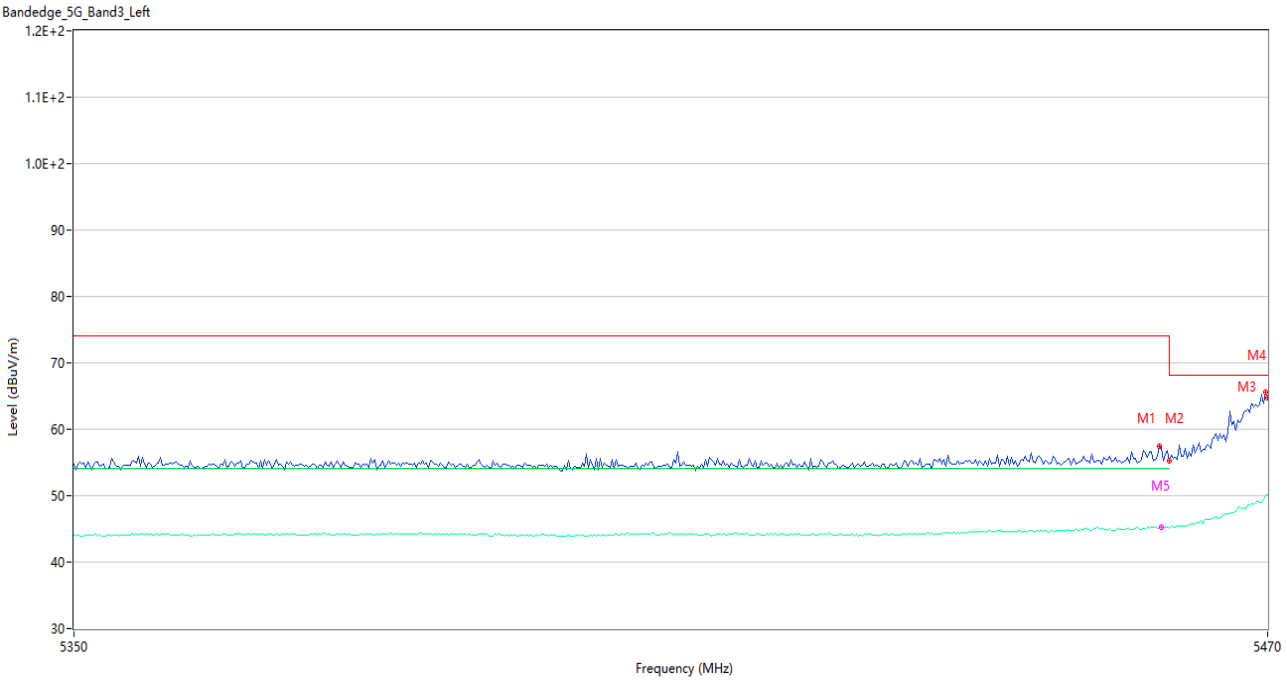
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5725.000	64.91	0.63	68.2	3.29	Peak	33.00	150	Horizontal	Pass
2	5725.209	64.62	0.64	68.2	3.58	Peak	37.00	150	Horizontal	Pass

U-NII-2C 11n20 CH100, ANT V



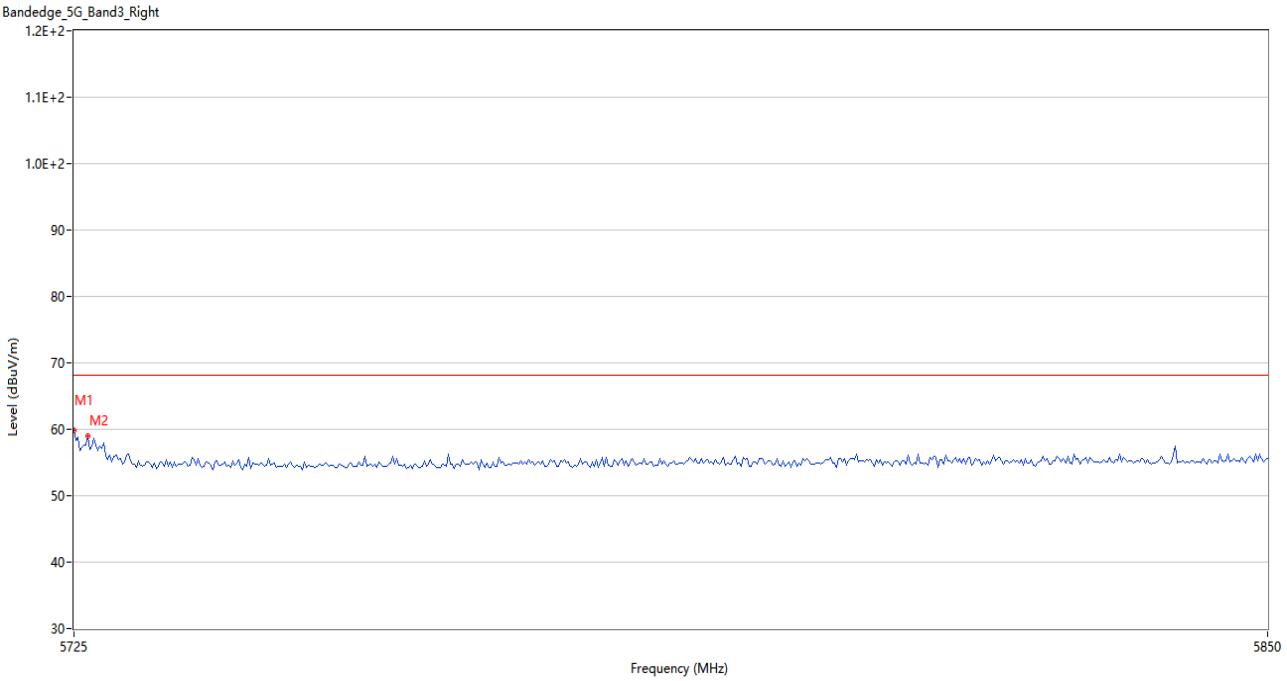
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5370.800	56.41	0.79	74.0	17.59	Peak	90.00	150	Vertical	Pass
1**	5370.800	44.01	0.79	54.0	9.99	AV	90.00	150	Vertical	Pass
2	5460.000	55.32	1.23	74.0	18.68	Peak	55.00	150	Vertical	Pass
2**	5460.000	44.74	1.23	54.0	9.26	AV	55.00	150	Vertical	Pass
3	5468.800	59.10	1.35	68.2	9.10	Peak	352.00	150	Vertical	Pass
3**	5468.800	45.45	1.35	--	--	AV	352.00	150	Vertical	N/A
4	5470.000	58.12	1.37	68.2	10.08	Peak	352.00	150	Vertical	Pass
4**	5470.000	45.78	1.37	--	--	AV	352.00	150	Vertical	N/A
5	5459.200	55.64	1.24	74.0	18.36	Peak	301.00	150	Vertical	Pass
5**	5459.200	44.84	1.24	54.0	9.16	AV	301.00	150	Vertical	Pass

U-NII-2C 11n20 CH100, ANT H



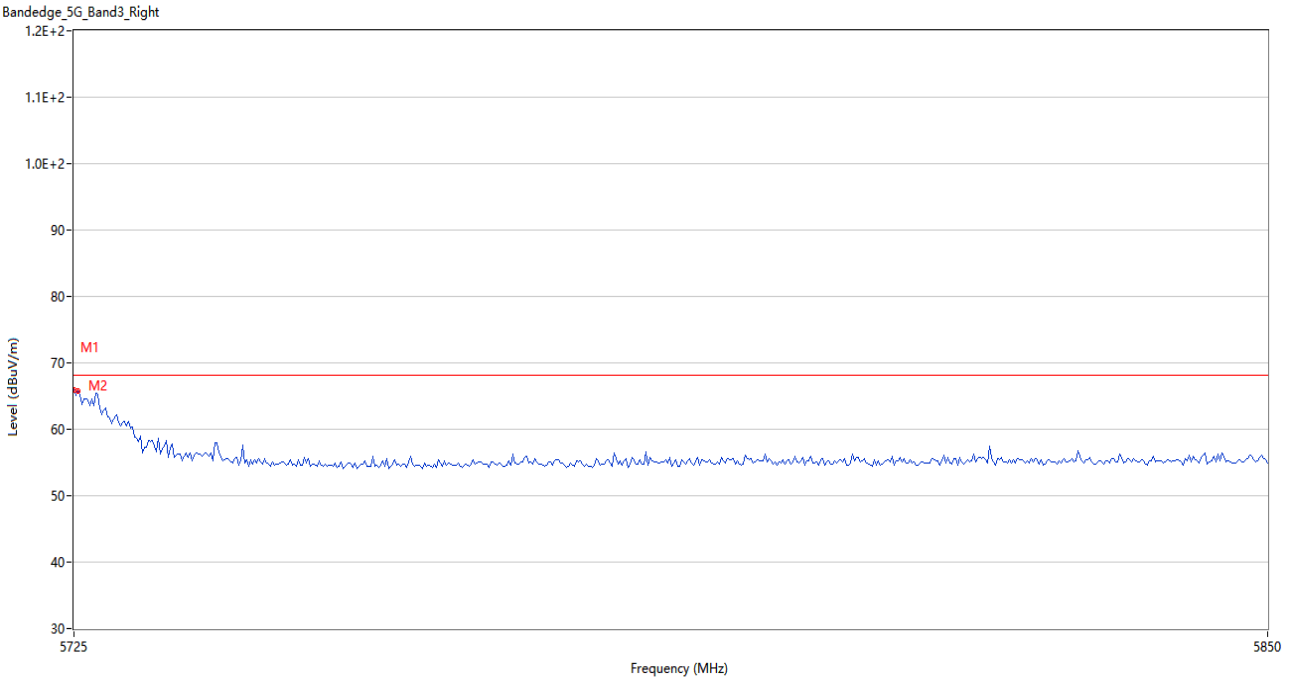
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5459.000	57.51	1.24	74.0	16.49	Peak	39.00	150	Horizontal	Pass
1**	5459.000	45.15	1.24	54.0	8.85	AV	39.00	150	Horizontal	Pass
2	5460.000	55.27	1.23	74.0	18.73	Peak	33.00	150	Horizontal	Pass
2**	5460.000	45.16	1.23	54.0	8.84	AV	33.00	150	Horizontal	Pass
3	5469.800	65.57	1.38	68.2	2.63	Peak	42.00	150	Horizontal	Pass
3**	5469.800	50.05	1.38	--	--	AV	42.00	150	Horizontal	N/A
4	5470.000	64.69	1.37	68.2	3.51	Peak	42.00	150	Horizontal	Pass
4**	5470.000	50.18	1.37	--	--	AV	42.00	150	Horizontal	N/A
5	5459.200	57.17	1.24	74.0	16.83	Peak	33.00	150	Horizontal	Pass
5**	5459.200	45.30	1.24	54.0	8.70	AV	33.00	150	Horizontal	Pass

U-NII-2C 11n20 CH140, ANT V



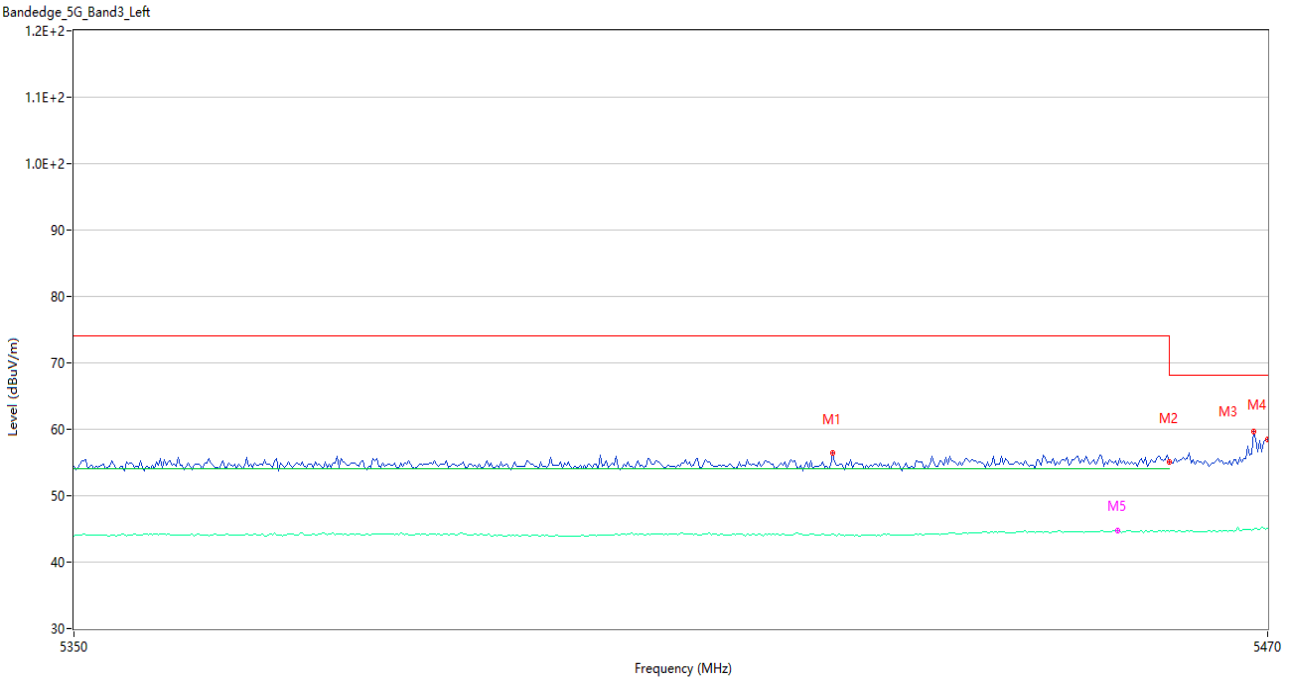
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5725.000	59.82	0.63	68.2	8.38	Peak	360.00	150	Vertical	Pass
2	5726.458	58.90	0.65	68.2	9.30	Peak	350.00	150	Vertical	Pass

U-NII-2C 11n20 CH140, ANT H



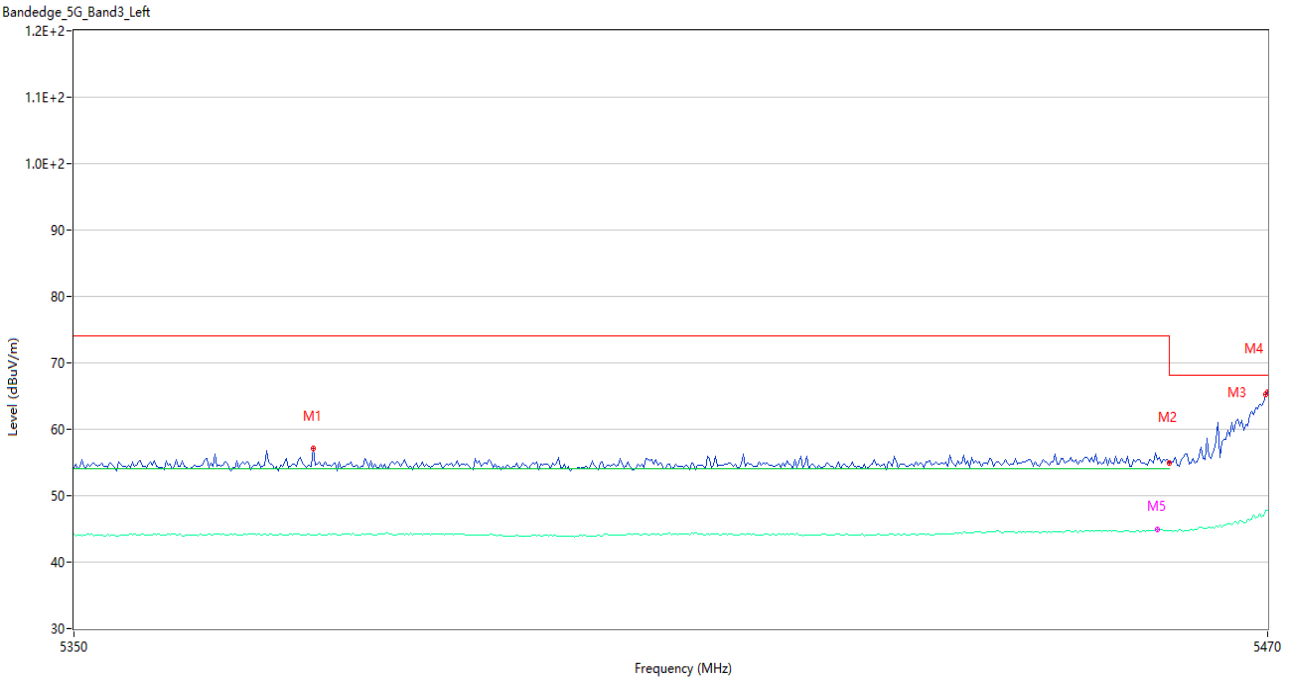
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5725.000	65.89	0.63	68.2	2.31	Peak	25.00	150	Horizontal	Pass
2	5725.416	65.73	0.64	68.2	2.47	Peak	36.00	150	Horizontal	Pass

U-NII-2C 11n40 CH102, ANT V



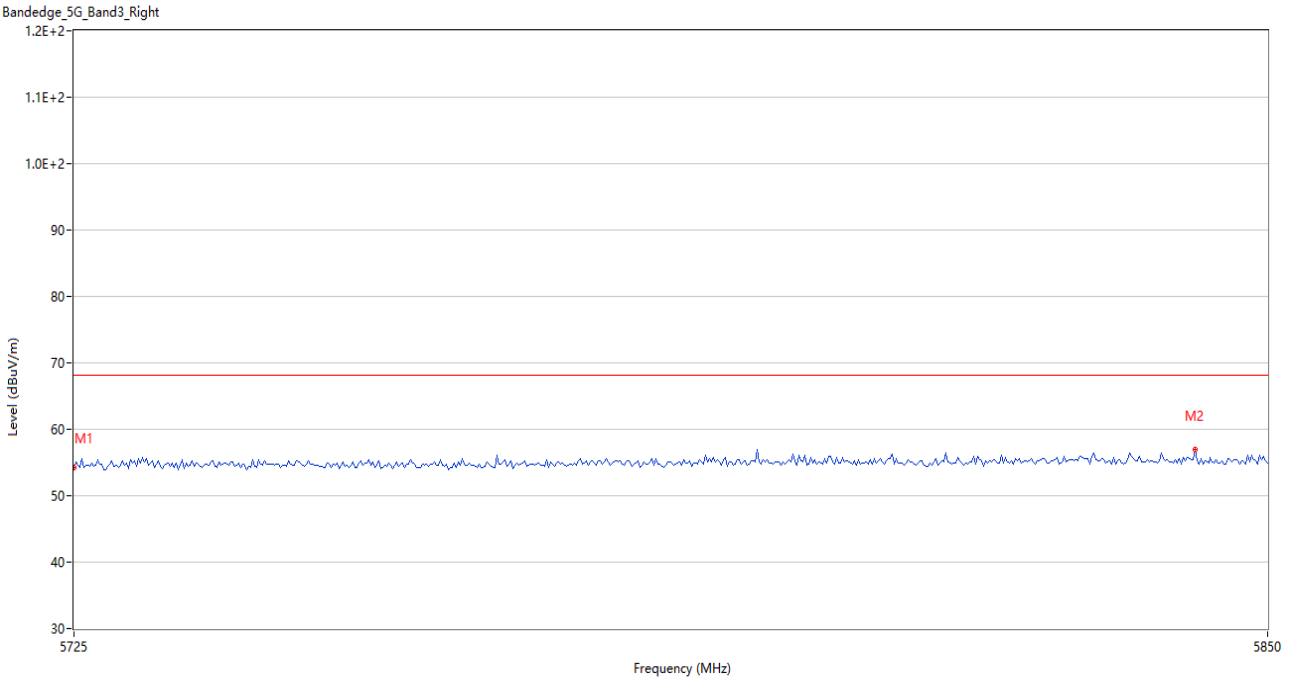
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5426.000	56.46	1.15	74.0	17.54	Peak	49.00	150	Vertical	Pass
1**	5426.000	44.17	1.15	54.0	9.83	AV	49.00	150	Vertical	Pass
2	5460.000	55.11	1.23	74.0	18.89	Peak	193.00	150	Vertical	Pass
2**	5460.000	44.59	1.23	54.0	9.41	AV	193.00	150	Vertical	Pass
3	5468.600	59.66	1.35	68.2	8.54	Peak	7.00	150	Vertical	Pass
3**	5468.600	44.96	1.35	--	--	AV	7.00	150	Vertical	N/A
4	5470.000	58.53	1.37	68.2	9.67	Peak	357.00	150	Vertical	Pass
4**	5470.000	45.17	1.37	--	--	AV	357.00	150	Vertical	N/A
5	5454.800	54.66	1.19	74.0	19.34	Peak	55.00	150	Vertical	Pass
5**	5454.800	44.81	1.19	54.0	9.19	AV	55.00	150	Vertical	Pass

U-NII-2C 11n40 CH102, ANT V



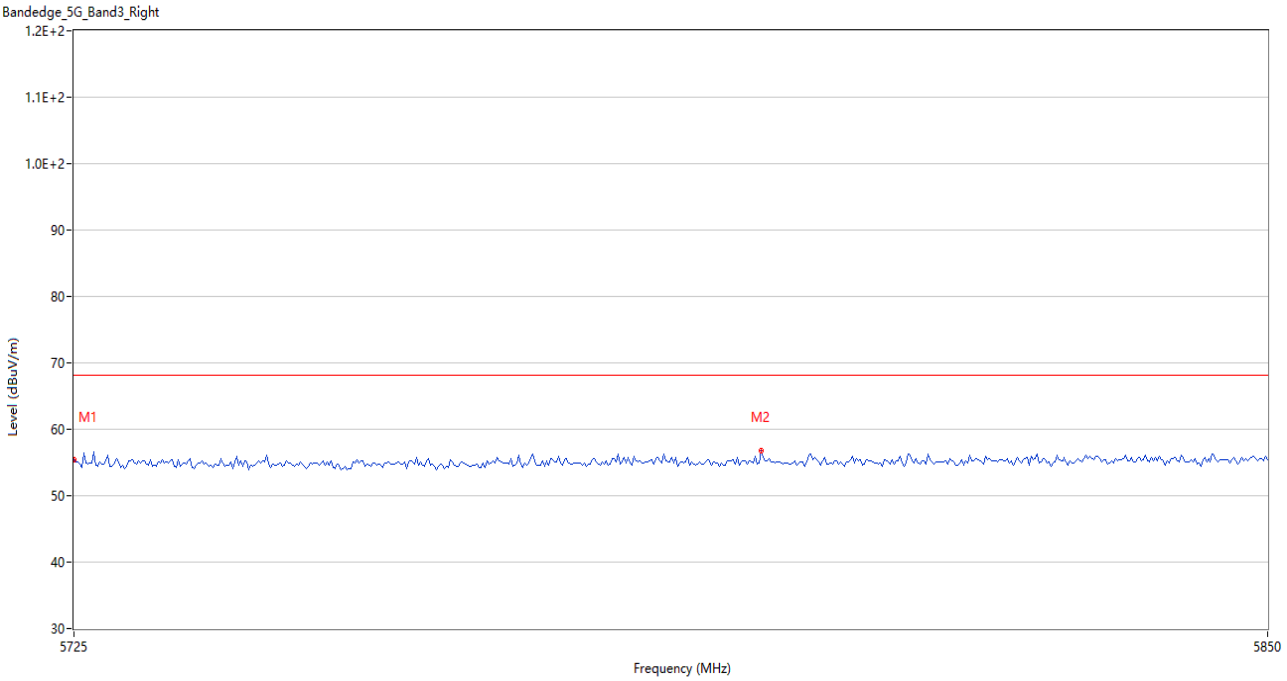
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5373.800	57.08	0.77	74.0	16.92	Peak	185.00	150	Horizontal	Pass
1**	5373.800	44.10	0.77	54.0	9.90	AV	185.00	150	Horizontal	Pass
2	5460.000	54.96	1.23	74.0	19.04	Peak	277.00	150	Horizontal	Pass
2**	5460.000	44.71	1.23	54.0	9.29	AV	277.00	150	Horizontal	Pass
3	5469.800	65.31	1.38	68.2	2.89	Peak	37.00	150	Horizontal	Pass
3**	5469.800	47.78	1.38	--	--	AV	37.00	150	Horizontal	N/A
4	5470.000	65.54	1.37	68.2	2.66	Peak	37.00	150	Horizontal	Pass
4**	5470.000	47.76	1.37	--	--	AV	37.00	150	Horizontal	N/A
5	5458.800	55.49	1.23	74.0	18.51	Peak	53.00	150	Horizontal	Pass
5**	5458.800	44.86	1.23	54.0	9.14	AV	53.00	150	Horizontal	Pass

U-NII-2C 11n40 CH134, ANT V



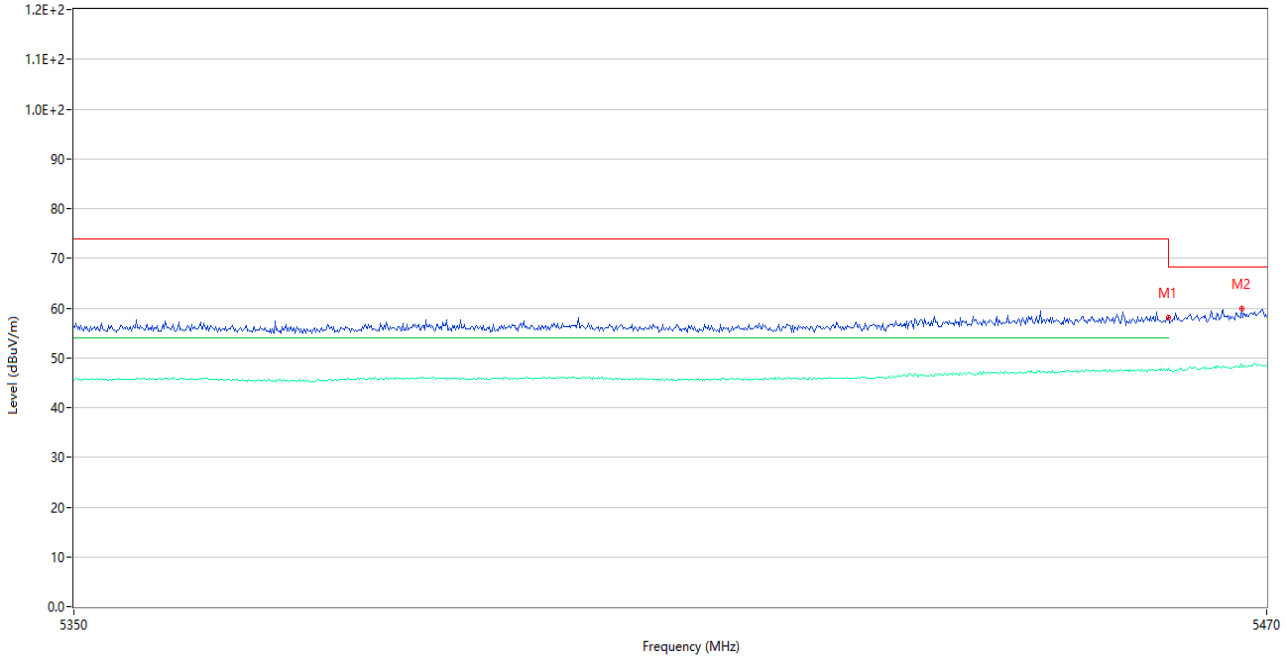
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5725.000	54.26	0.63	68.2	13.94	Peak	63.00	150	Vertical	Pass
2	5842.292	56.99	1.19	68.2	11.21	Peak	359.00	150	Vertical	Pass

U-NII-2C 11n40 CH134, ANT H



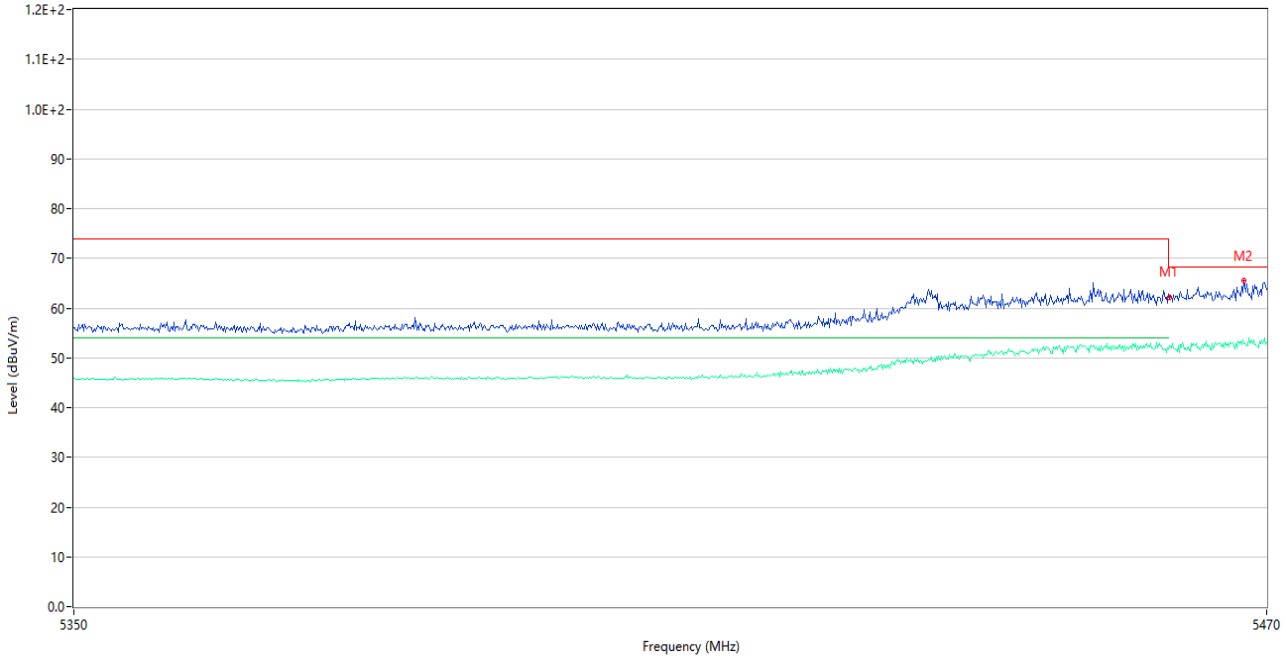
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5725.000	55.50	0.63	68.2	12.70	Peak	39.00	150	Horizontal	Pass
2	5796.666	56.78	1.34	68.2	11.42	Peak	9.00	150	Horizontal	Pass

U-NII-2C 11ac80 CH106, ANT V



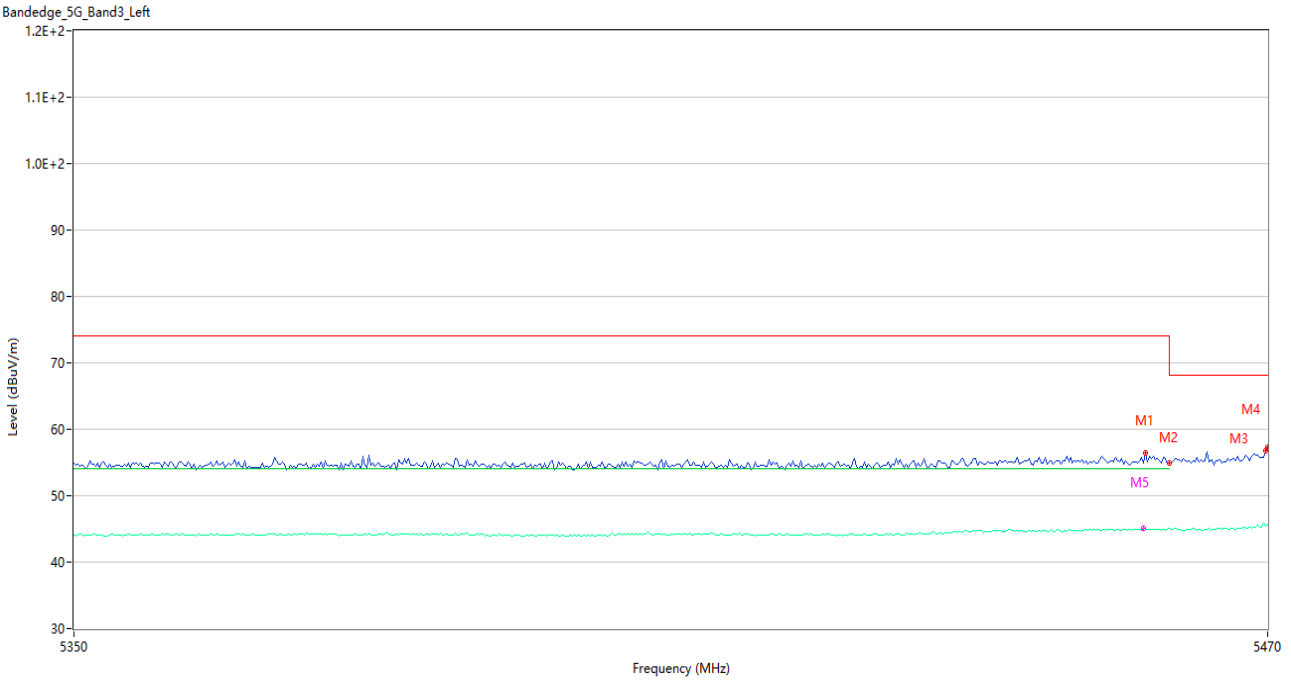
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5460.000	57.97	5.38	68.2	10.23	Peak	344.00	150	Vertical	Pass
1**	5460.000	47.68	5.38	54.0	6.32	AV	344.00	150	Vertical	Pass
2	5467.480	59.82	5.68	68.2	8.38	Peak	0.00	150	Vertical	Pass
2**	5467.480	48.15	5.68	--	-48.15	AV	0.00	150	Vertical	N/A

U-NII-2C 11ac80 CH106, ANT H



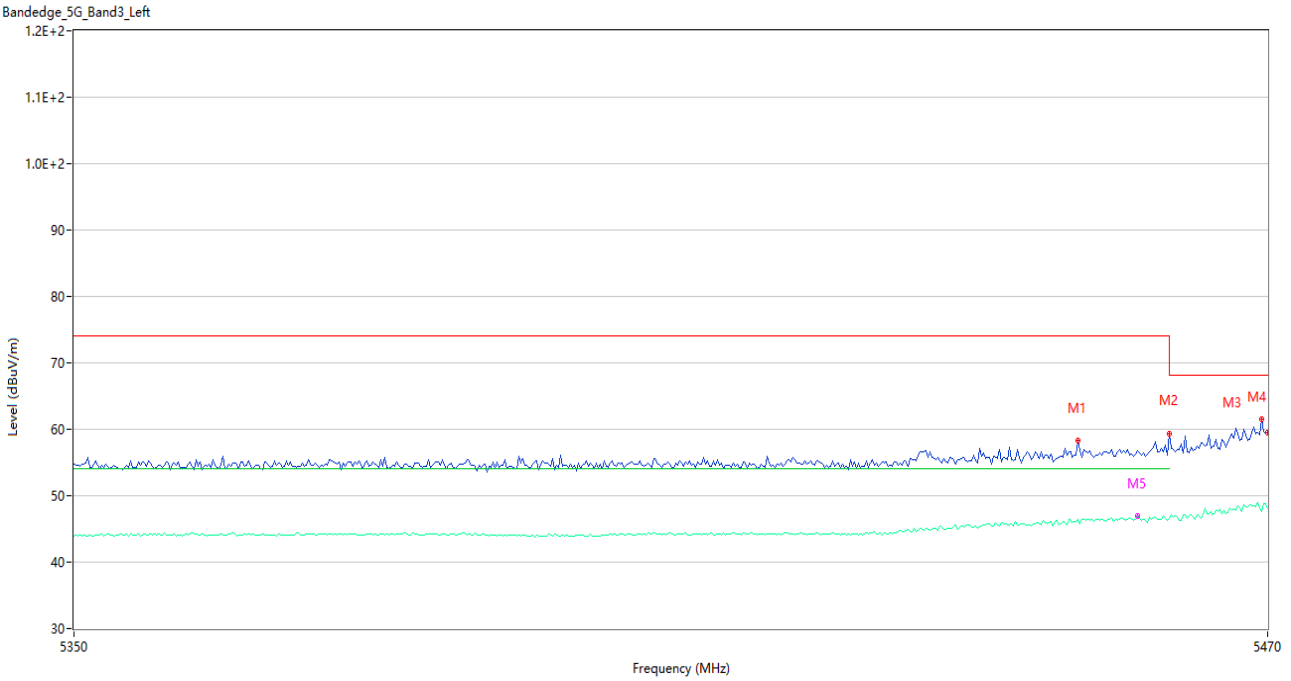
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5460.000	62.23	5.38	68.2	5.97	Peak	41.97	150	Horizontal	Pass
1**	5460.000	51.85	5.38	54.0	2.15	AV	41.97	150	Horizontal	Pass
2	5467.720	65.49	5.70	68.2	2.71	Peak	53.00	150	Horizontal	Pass
2**	5467.720	52.78	5.70	--	-52.78	AV	53.00	150	Horizontal	N/A

U-NII-2C 11ac80 CH106 ANT0, ANT V



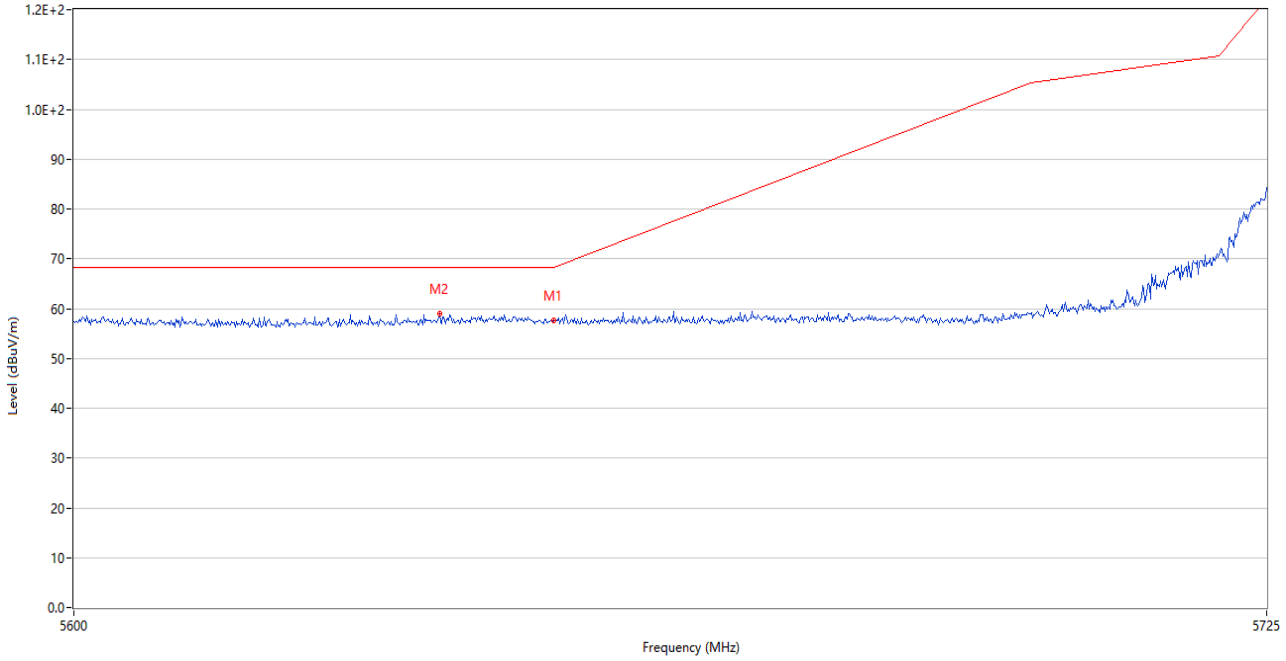
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5457.600	56.38	1.18	74.0	17.62	Peak	4.00	150	Vertical	Pass
1**	5457.600	44.94	1.18	54.0	9.06	AV	4.00	150	Vertical	Pass
2	5460.000	54.92	1.23	74.0	19.08	Peak	295.00	150	Vertical	Pass
2**	5460.000	45.03	1.23	54.0	8.97	AV	295.00	150	Vertical	Pass
3	5469.800	56.80	1.38	68.2	11.40	Peak	16.00	150	Vertical	Pass
3**	5469.800	45.38	1.38	--	--	AV	16.00	150	Vertical	N/A
4	5470.000	57.36	1.37	68.2	10.84	Peak	0.00	150	Vertical	Pass
4**	5470.000	45.51	1.37	--	--	AV	0.00	150	Vertical	N/A
5	5457.400	54.84	1.17	74.0	19.16	Peak	360.00	150	Vertical	Pass
5**	5457.400	45.14	1.17	54.0	8.86	AV	360.00	150	Vertical	Pass

U-NII-2C 11ac80 CH106 ANT0, ANT H



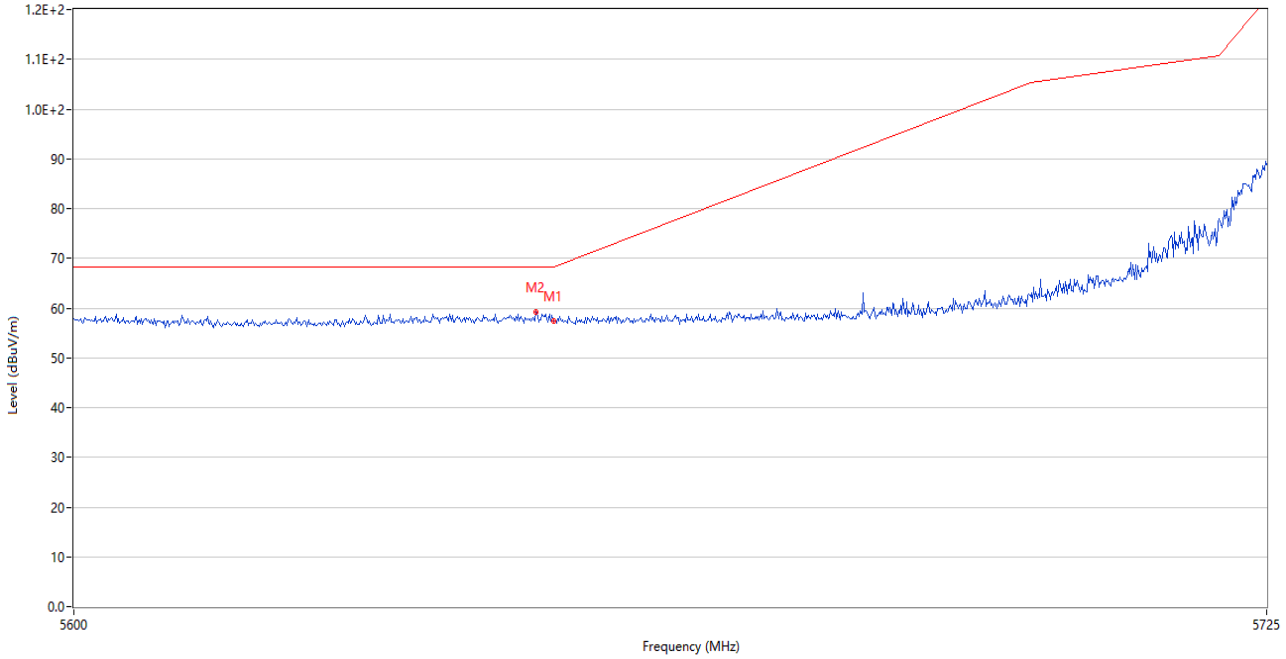
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5450.800	58.23	1.25	74.0	15.77	Peak	32.00	150	Horizontal	Pass
1**	5450.800	46.37	1.25	54.0	7.63	AV	32.00	150	Horizontal	Pass
2	5460.000	59.41	1.23	74.0	14.59	Peak	30.00	150	Horizontal	Pass
2**	5460.000	46.61	1.23	54.0	7.39	AV	30.00	150	Horizontal	Pass
3	5469.400	61.46	1.37	68.2	6.74	Peak	32.00	150	Horizontal	Pass
3**	5469.400	47.63	1.37	--	--	AV	32.00	150	Horizontal	N/A
4	5470.000	59.45	1.37	68.2	8.75	Peak	40.00	150	Horizontal	Pass
4**	5470.000	48.14	1.37	--	--	AV	40.00	150	Horizontal	N/A
5	5456.800	56.76	1.16	74.0	17.24	Peak	32.00	150	Horizontal	Pass
5**	5456.800	47.03	1.16	54.0	6.97	AV	32.00	150	Horizontal	Pass

U-NII-3 11a CH149, ANT V



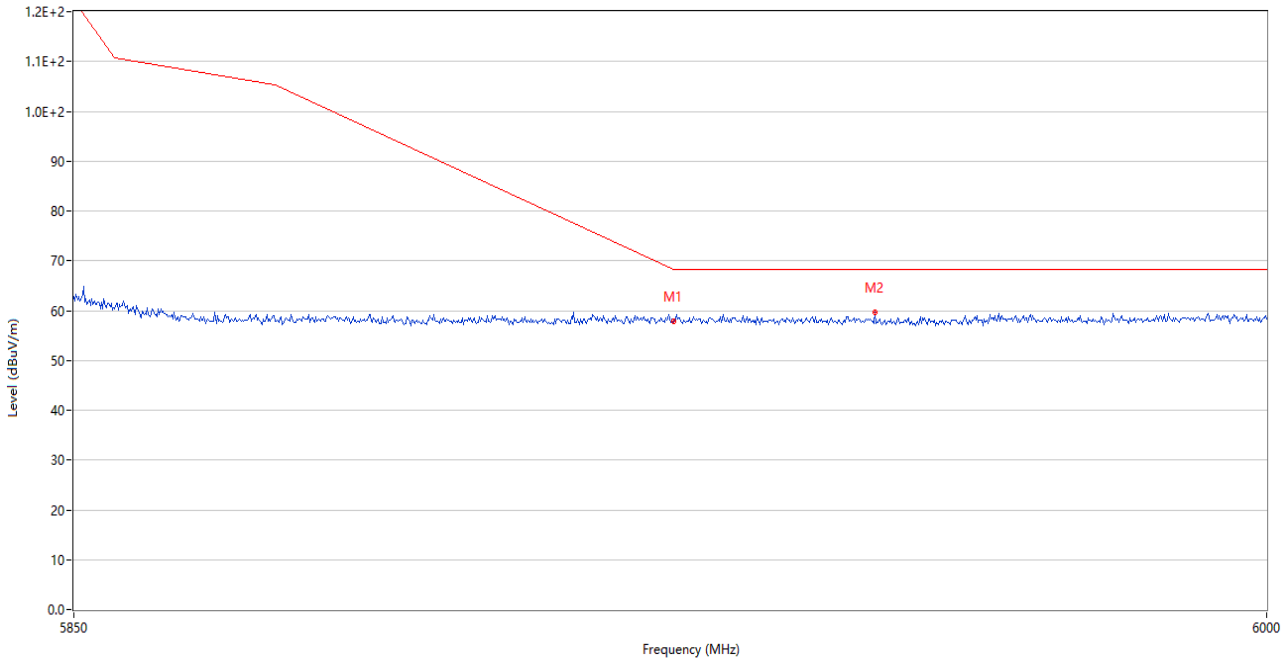
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5650.000	57.55	5.94	68.2	10.65	Peak	88.28	150	Vertical	Pass
2	5638.000	58.90	5.90	68.2	9.30	Peak	161.00	150	Vertical	Pass

U-NII-3 11a CH149, ANT H



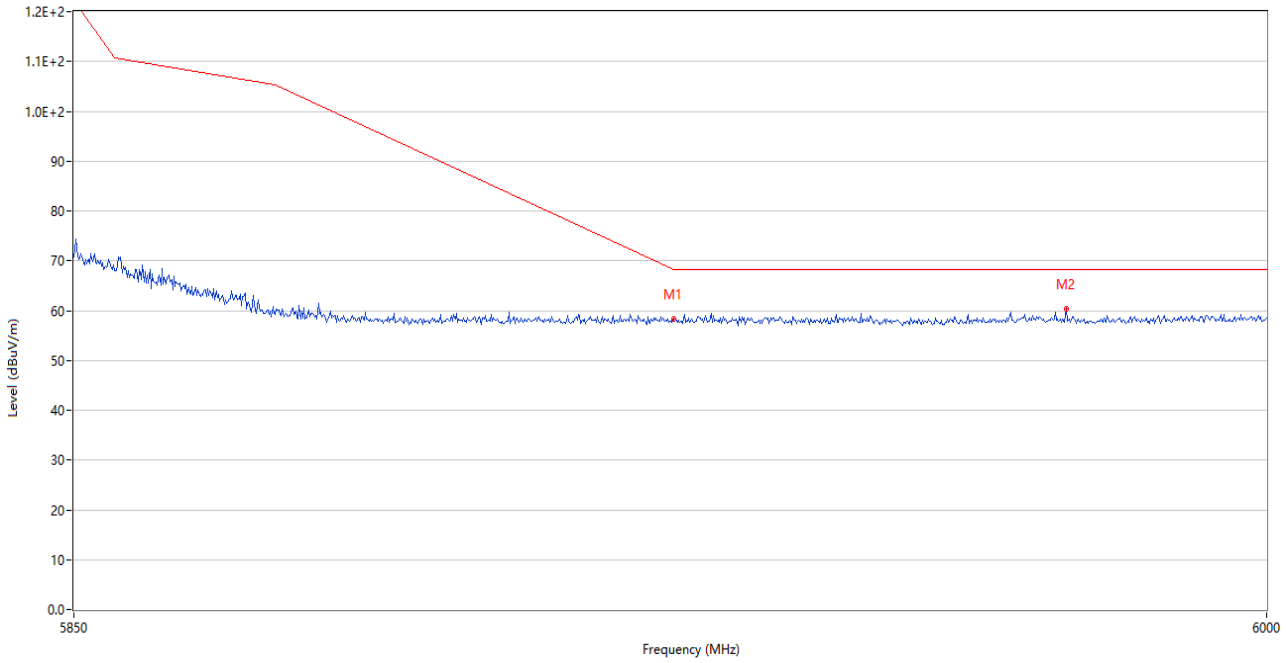
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5650.000	57.29	5.94	68.2	10.91	Peak	48.24	150	Horizontal	Pass
2	5648.125	59.19	5.95	68.2	9.01	Peak	1.00	150	Horizontal	Pass

U-NII-3 11a CH165, ANT V



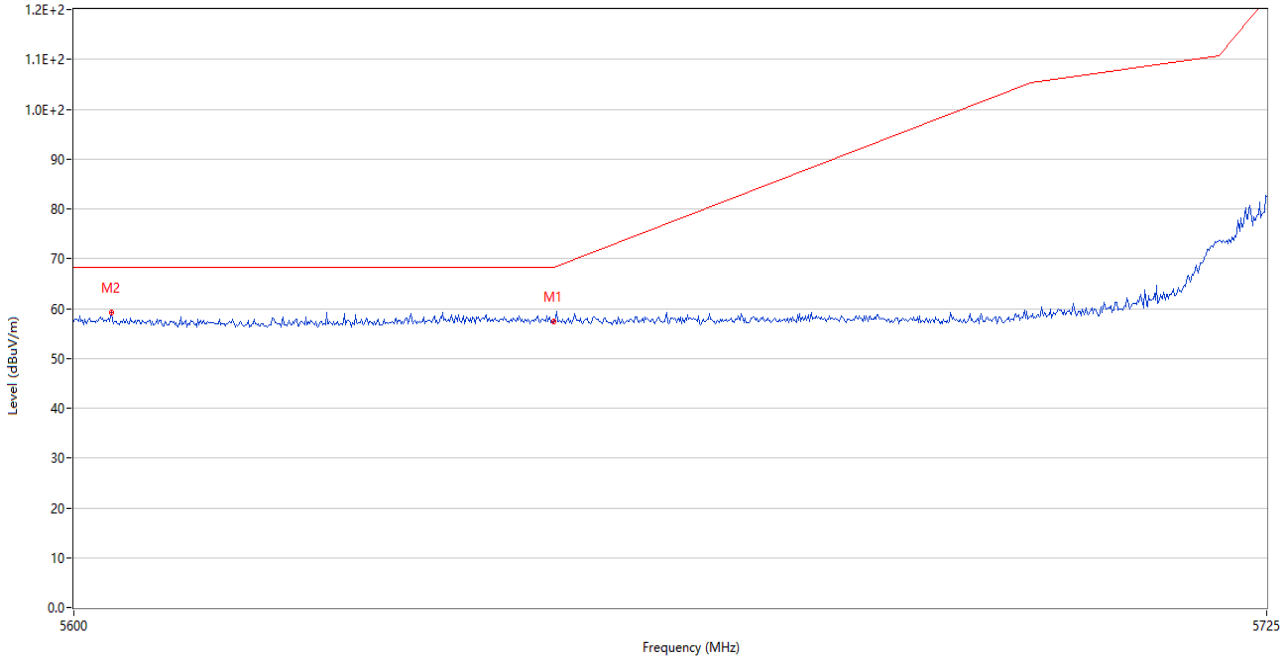
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5925.000	57.74	7.83	68.2	10.46	Peak	3.45	150	Vertical	Pass
2	5950.350	59.58	7.52	68.2	8.62	Peak	320.00	150	Vertical	Pass

U-NII-3 11a CH165, ANT H



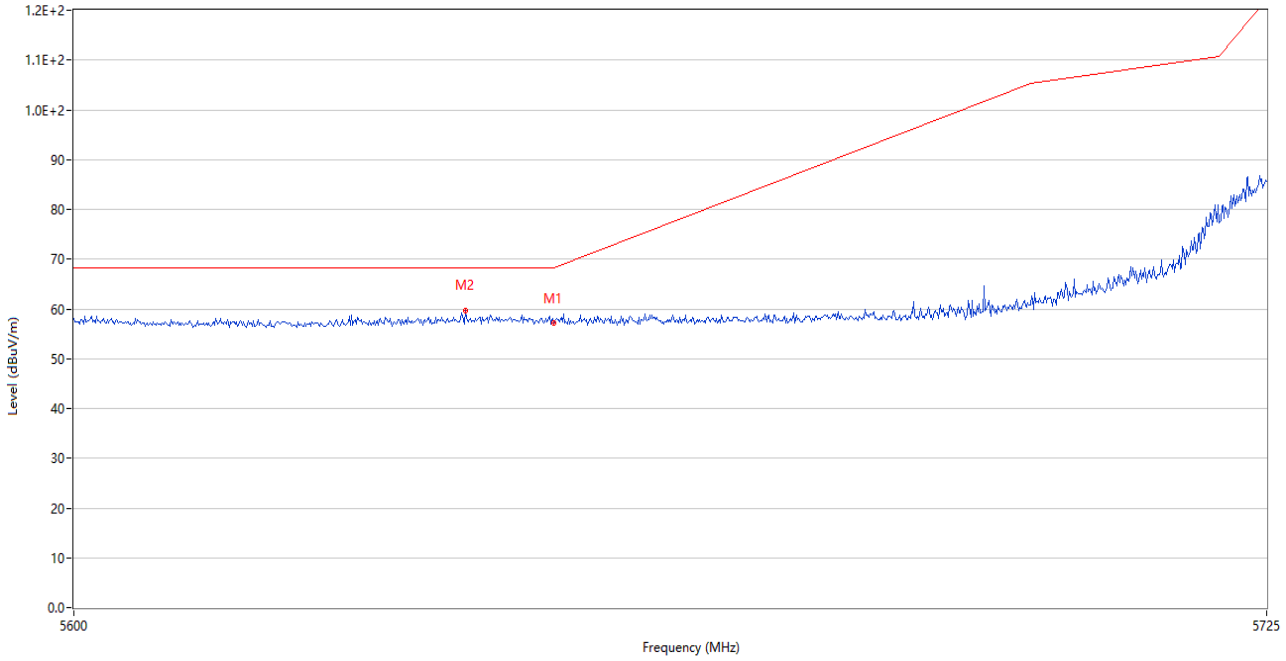
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5925.000	58.38	7.83	68.2	9.82	Peak	102.16	150	Horizontal	Pass
2	5974.500	60.35	7.47	68.2	7.85	Peak	260.00	150	Horizontal	Pass

U-NII-3 11n20 CH149, ANT V



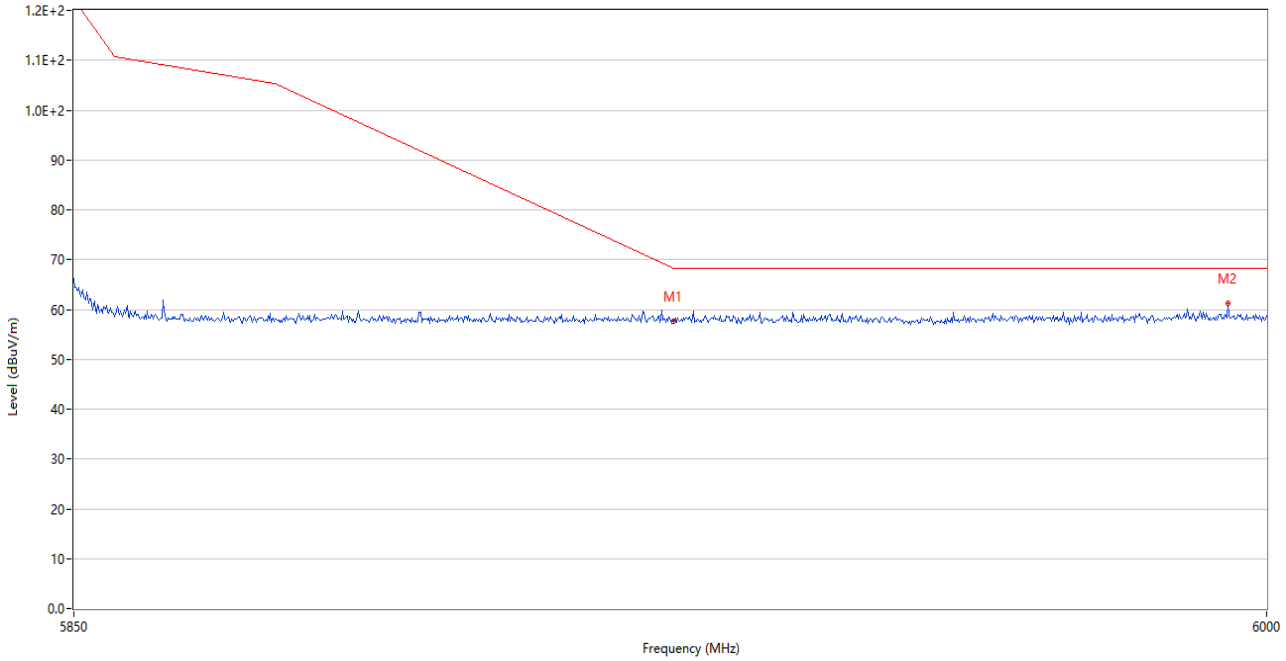
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5650.000	57.44	5.94	68.2	10.76	Peak	327.93	150	Vertical	Pass
2	5603.875	59.30	5.94	68.2	8.90	Peak	266.00	150	Vertical	Pass

U-NII-3 11n20 CH149, ANT H



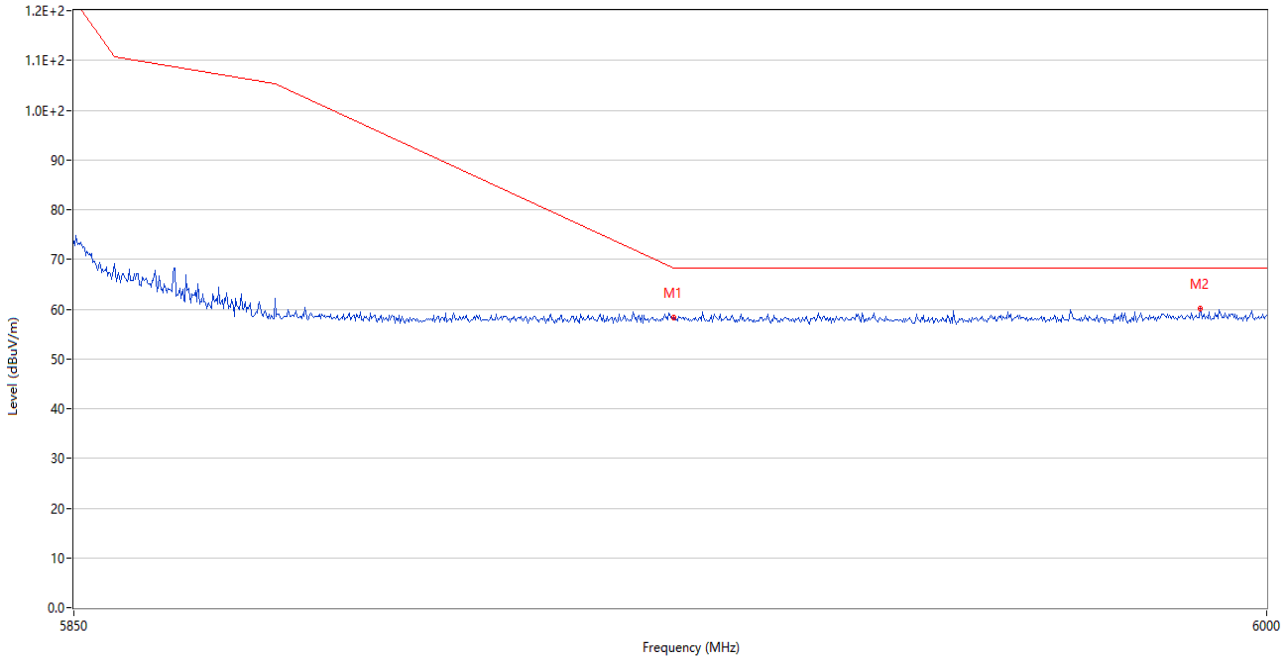
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5650.000	57.19	5.94	68.2	11.01	Peak	359.70	150	Horizontal	Pass
2	5640.750	59.59	5.92	68.2	8.61	Peak	193.00	150	Horizontal	Pass

U-NII-3 11n20 CH165, ANT V



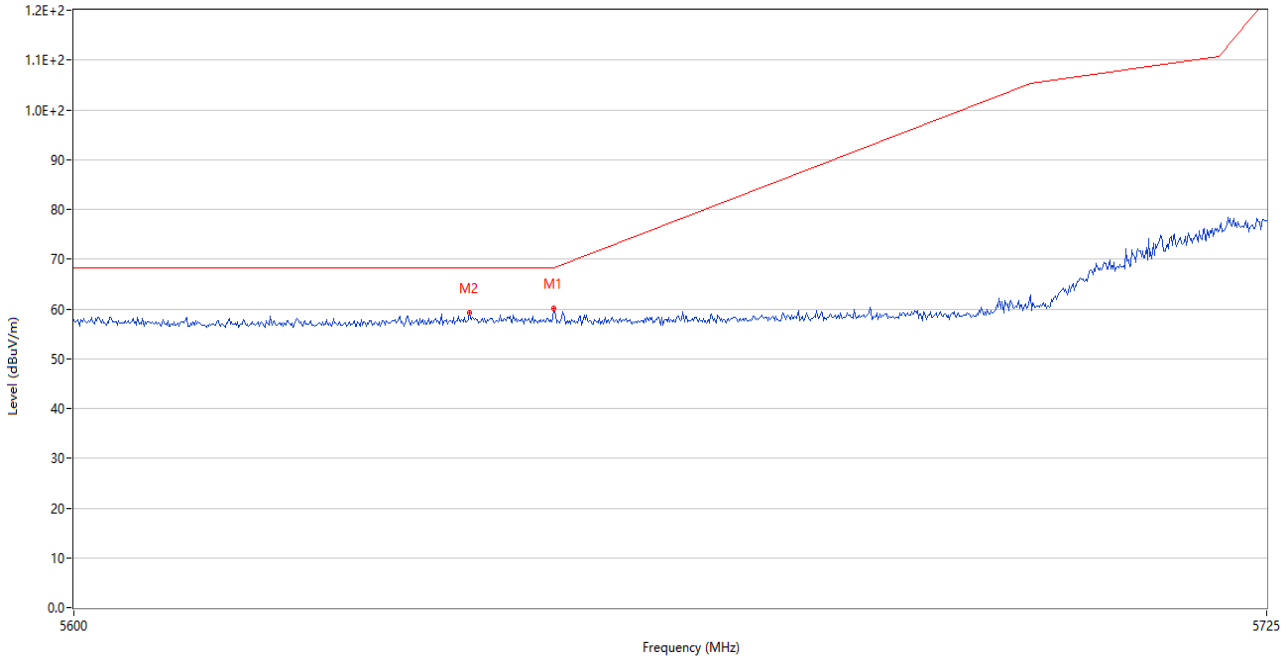
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5925.000	57.62	7.83	68.2	10.58	Peak	7.10	150	Vertical	Pass
2	5995.050	61.21	8.00	68.2	6.99	Peak	310.00	150	Vertical	Pass

U-NII-3 11n20 CH165, ANT H



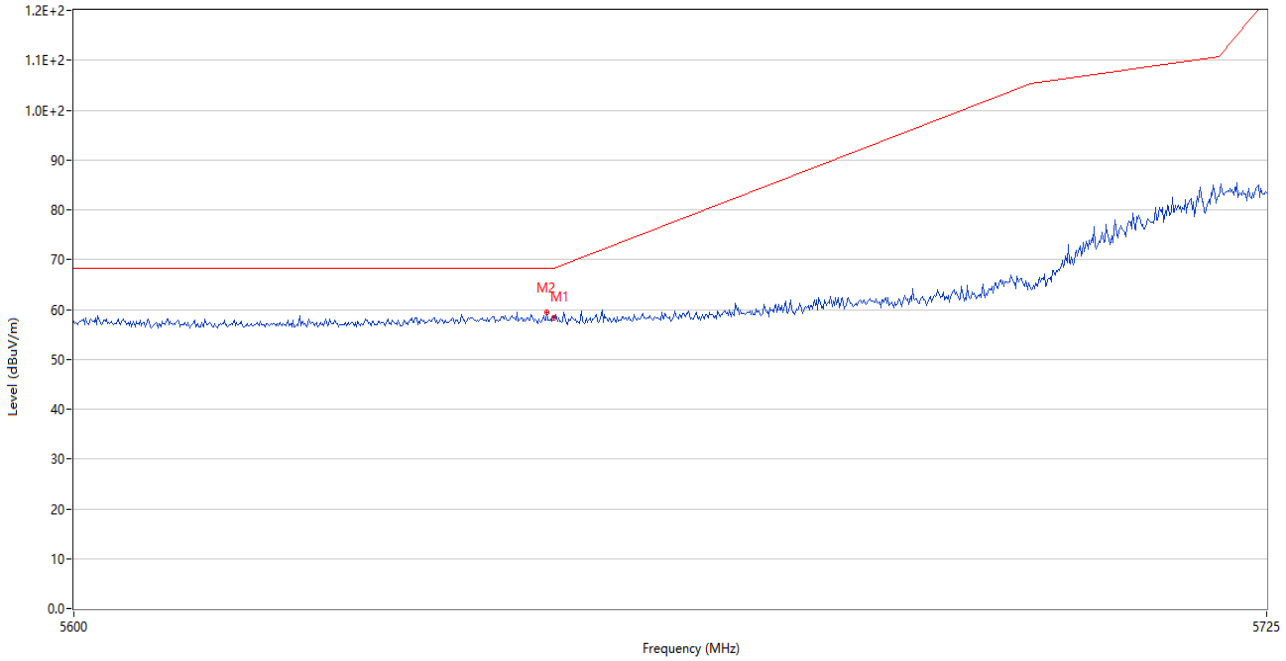
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5925.000	58.23	7.83	68.2	9.97	Peak	177.13	150	Horizontal	Pass
2	5991.600	60.12	7.95	68.2	8.08	Peak	25.00	150	Horizontal	Pass

U-NII-3 11n40 CH151, ANT V



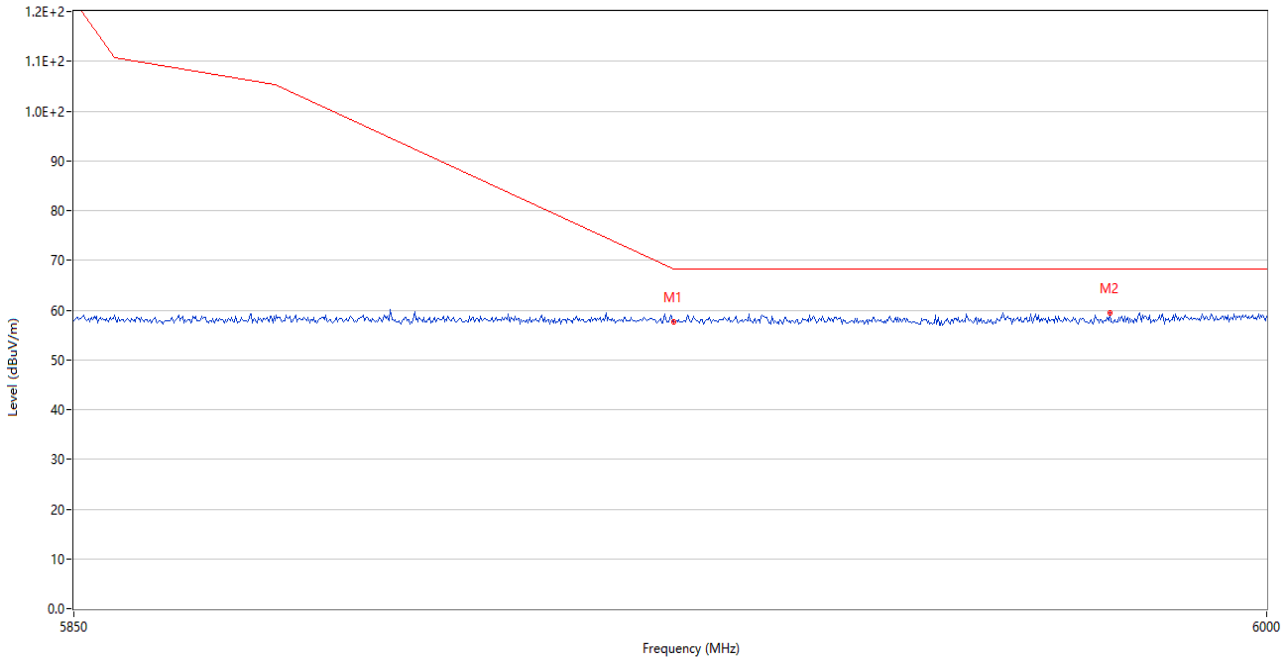
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5650.000	60.15	5.94	68.2	8.05	Peak	345.69	150	Vertical	Pass
2	5641.125	59.16	5.92	68.2	9.04	Peak	235.00	150	Vertical	Pass

U-NII-3 11n40 CH151, ANT H



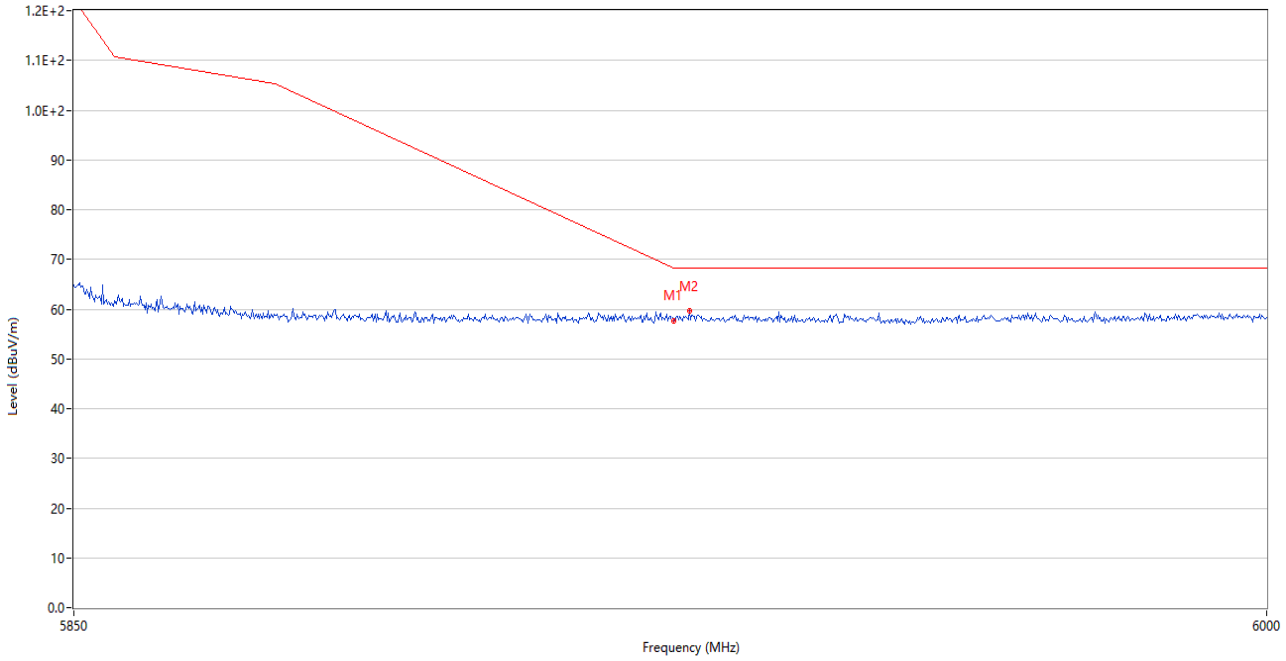
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5650.000	58.38	5.94	68.2	9.82	Peak	145.06	150	Horizontal	Pass
2	5649.250	59.43	5.95	68.2	8.77	Peak	51.00	150	Horizontal	Pass

U-NII-3 11n40 CH159, ANT V



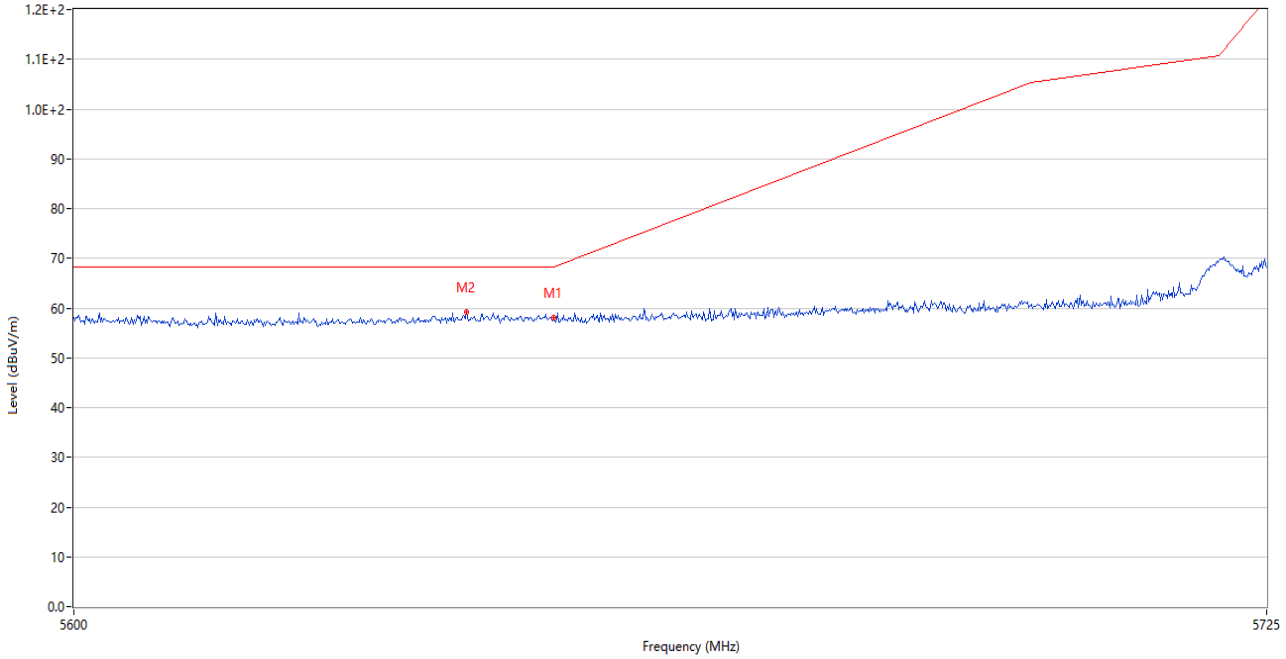
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5925.000	57.55	7.83	68.2	10.65	Peak	0.00	150	Vertical	Pass
2	5980.050	59.44	7.40	68.2	8.76	Peak	210.00	150	Vertical	Pass

U-NII-3 11n40 CH159, ANT H



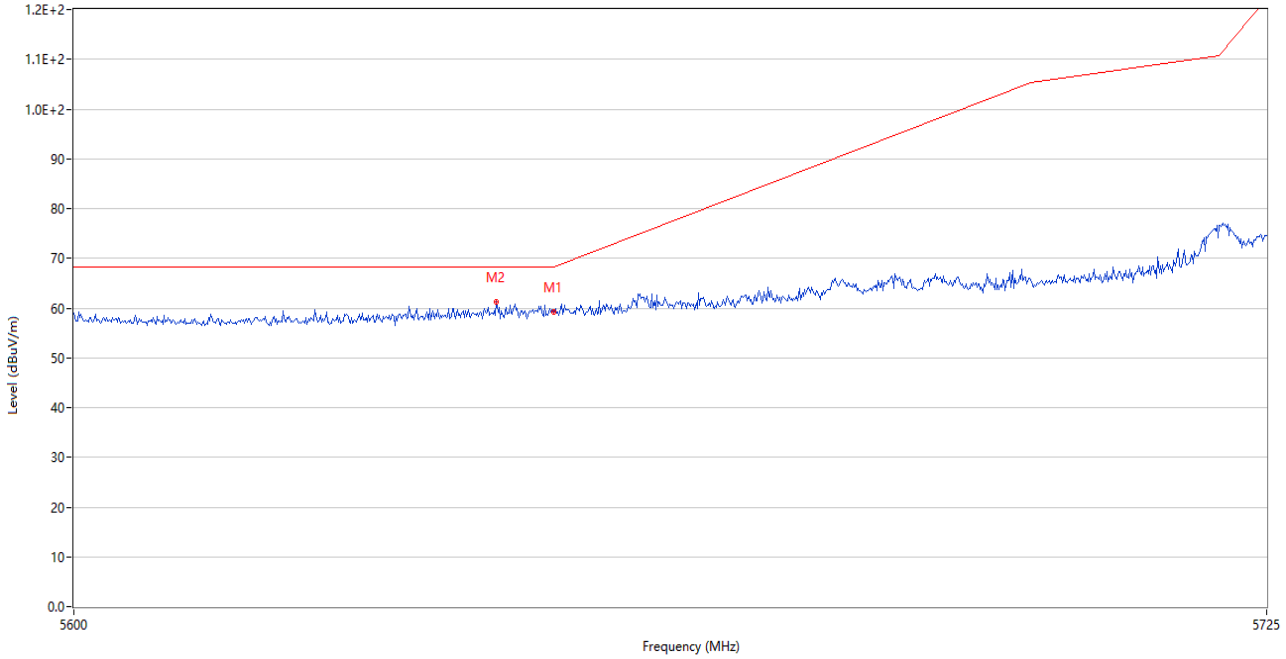
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5925.000	57.72	7.83	68.2	10.48	Peak	6.01	150	Horizontal	Pass
2	5926.950	59.73	7.79	68.2	8.47	Peak	360.00	150	Horizontal	Pass

U-NII-3 11ac80 CH155, ANT V



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5650.000	57.99	5.94	68.2	10.21	Peak	163.20	150	Vertical	Pass
2	5640.875	59.22	5.92	68.2	8.98	Peak	214.00	150	Vertical	Pass

U-NII-3 11ac80 CH155, ANT H



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5650.000	59.12	5.94	68.2	9.08	Peak	39.97	150	Horizontal	Pass
2	5644.000	61.20	6.02	68.2	7.00	Peak	52.00	150	Horizontal	Pass

ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-SZ2481209-AR.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ2481209-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SZ2481209-AI.PDF”.

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--END OF REPORT--