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CNAS L6791

TEST REPORT

Applicant: Ugreen Group Limited
Address: URGEEN Building, Longcheng Industrial Park,
Longguanxi Road, Longhua, ShenZhen, China
Equipment Type: AX1800 High-Gain Dual Band Wireless Adapter
Model Name: CM495 (refer to section 2.3)
Brand Name: **UGREEN**
FCC ID: 2AQI5-CM495
Test Standard: 47 CFR Part 15 Subpart E
(refer to section 3.1)
Sample Arrival Date: Aug. 11, 2023
Test Date: Aug. 12, 2023 - Aug. 18, 2023
Date of Issue: Sep. 05, 2023

ISSUED BY:

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Revision History		
Version	Issue Date	Revisions
<u>Rev. 01</u>	<u>Sep. 05, 2023</u>	<u>Initial Issue</u>

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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	<input checked="" type="checkbox"/> Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
	<input type="checkbox"/> 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	Ugreen Group Limited
Address	URGEEN Building, Longcheng Industrial Park, Longguanxi Road, Longhua, ShenZhen, China

2.2 Manufacturer Information

Manufacturer	Ugreen Group Limited
Address	URGEEN Building, Longcheng Industrial Park, Longguanxi Road, Longhua, ShenZhen, China

2.3 General Description for Equipment under Test (EUT)

EUT Name	AX1800 High-Gain Dual Band Wireless Adapter
Model Name Under Test	CM495
Series Model Name	25226
Description of Model name differentiation	All models are same with electrical parameters and internal circuit structure, but only differ in model name. (this information provided by the applicant)
Hardware Version	V1.2
Software Version	N/A
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.4 Technical Information

Network and Wireless connectivity	2.4G WIFI 802.11b, 802.11g, 802.11n(HT20/40) and 802.11ax(HE20/40) 5G WIFI 802.11a, 802.11n(HT20/40), 802.11ac(VHT20/40/80) and 802.11ax(HE20/40/80), U-NII-1/3
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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-3: 5725 MHz to 5850 MHz	
Product Type	<input type="checkbox"/> Mobile <input checked="" type="checkbox"/> Portable <input type="checkbox"/> Fix Location	
Modulation technology	OFDM, OFDMA	
Modulation Type	1024QAM, 256QAM, 64QAM, 16QAM, BPSK, QPSK	
Product Type	Portable for FCC standard	
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 802.11ax up to 1201 Mbps	
Channel Bandwidth	802.11a: 20 MHz 802.11n: 20 MHz, 40 MHz 802.11ac: 20 MHz, 40 MHz, 80 MHz, 802.11ax: 20 MHz, 40 MHz, 80 MHz	
Maximum Output Power	U-NII-1: 16.44 mW U-NII-3: 16.49 mW	
Antenna System (eg., MIMO, Smart Antenna)	Cyclic Delay Diversity (CDD) for 802.11a Multi Input Multi Output (MIMO) for 802.11n/ac/ax	
Categorization as Correlated or Completely Uncorrelated	Categorization as Correlated for 802.11a Categorization as Uncorrelated for 802.11n/ac/ax	
Antenna Type	Antenna 0 Antenna 1	Dipole Antenna
Antenna Gain	Antenna 0 Antenna 1	U-NII-1: 5150 MHz to 5250 MHz: 3.5 dBi U-NII-3: 5725 MHz to 5850 MHz: 3.5 dBi
Total directional gain	For power spectral density(PSD) measurements	Correlated: U-NII-1: 5150 MHz to 5250 MHz: 6.51 dBi U-NII-3: 5725 MHz to 5850 MHz: 6.51 dBi Formulas: Directional gain = $GANT + 10 \log(NANT)$ dBi Uncorrelated: U-NII-1: 5150 MHz to 5250 MHz: 3.50 dBi U-NII-3: 5725 MHz to 5850 MHz: 3.50 dBi Formulas: Directional gain = $GANT$
	For power measurement	Correlated: U-NII-1: 5150 MHz to 5250 MHz: 6.51 dBi

	s	U-NII-3: 5725 MHz to 5850 MHz: 6.51 dBi Formulas: Directional gain = $GANT + 10 \log(NANT)$ dBi Uncorrelated: U-NII-1: 5150 MHz to 5250 MHz: 3.50 dBi U-NII-3: 5725 MHz to 5850 MHz: 3.50 dBi Formulas: Directional gain = $GANT$
About the Product		The equipment is AX1800 High-Gain Dual Band Wireless Adapter, intended for used with information technology equipment.

Mode	Antenna		
	Antenna 0	Antenna 1	MIMO
802.11a	√	√	--
802.11n20	√	√	√
802.11n40	√	√	√
802.11ac20	√	√	√
802.11ac40	√	√	√
802.11ac80	√	√	√
802.11ax20	√	√	√
802.11ax40	√	√	√
802.11ax80	√	√	√

Note: All the configurations were tested, but only the worst data was shown in this report.

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	155	5775
44	5220	151	5755		
48	5240	159	5795		
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)/ax(HE20)

U-NII-1 (5150 - 5250 MHz)			U-NII-3 (5725 - 5850 MHz)		
Channel Number	Channel	Frequency (MHz)	Channel Number	Channel	Frequency (MHz)
36	Low	5180	149	Low	5745
44	Mid	5220	157	Mid	5785
48	High	5240	165	High	5825

For 802.11n(HT40)/ac(VHT40)/ax(HE40)

U-NII-1 (5150 - 5250 MHz)			U-NII-3 (5725 - 5850 MHz)		
Channel Number	Channel	Frequency (MHz)	Channel Number	Channel	Frequency (MHz)
38	Low	5190	151	Low	5755
46	High	5230	159	High	5795

For 802.11ac(VHT80)/ax(HE80)

U-NII-1 (5150 - 5250 MHz)			U-NII-3 (5725 - 5850 MHz)		
Channel Number	Channel	Frequency (MHz)	Channel Number	Channel	Frequency (MHz)
42	Mid	5210	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-3
				Channel	Channel
RF Output Power	11a	6	BPSK	48/44/36	165/157/149
	11n(20 MHz)	6.5		48/44/36	165/157/149
	11n(40 MHz)	13.5		46/38	159/151
	11ac(20 MHz)	6.5		48/44/36	165/157/149
	11ac(40 MHz)	13.5		46/38	159/151
	11ac(80 MHz)	29.3		42	155
	11ax(20 MHz)	4		48/44/36	165/157/149
	11ax(40 MHz)	8		46/38	159/151
	11ax(80 MHz)	17		42	155
Emission Bandwidth & 99% Occupied Bandwidth	11a	6	BPSK	48/44/36	165/157/149
	11n(20 MHz)	6.5		48/44/36	165/157/149
	11n(40 MHz)	13.5		46/38	159/151
	11ac(20 MHz)	6.5		48/44/36	165/157/149
	11ac(40 MHz)	13.5		46/38	159/151
	11ac(80 MHz)	29.3		42	155
	11ax(20 MHz)	4		48/44/36	165/157/149
	11ax(40 MHz)	8		46/38	159/151
	11ax(80 MHz)	17		42	155
6 dB bandwidth	11a	6	BPSK	N/A	165/157/149
	11n(20 MHz)	6.5		N/A	165/157/149
	11n(40 MHz)	13.5		N/A	159/151
	11ac(20 MHz)	6.5		N/A	165/157/149
	11ac(40 MHz)	13.5		N/A	159/151
	11ac(80 MHz)	29.3		N/A	155
	11ax(20 MHz)	4		N/A	165/157/149
	11ax(40 MHz)	8		N/A	159/151
	11ax(80 MHz)	17		N/A	155
Power Spectral Density	11a	6	BPSK	48/44/36	165/157/149
	11n(20 MHz)	6.5		48/44/36	165/157/149
	11n(40 MHz)	13.5		46/38	159/151
	11ac(20 MHz)	6.5		48/44/36	165/157/149
	11ac(40 MHz)	13.5		46/38	159/151
	11ac(80 MHz)	29.3		42	155
	11ax(20 MHz)	4		48/44/36	165/157/149
	11ax(40 MHz)	8		46/38	159/151
	11ax(80 MHz)	17		42	155
Radiated Spurious Emissions	11a	6	BPSK	48/44/36	165/157/149
	11n(20 MHz)	6.5		48/44/36	165/157/149
	11n(40 MHz)	13.5		46/38	159/151

	11ac(20 MHz)	6.5		48/44/36	165/157/149
	11ac(40 MHz)	13.5		46/38	159/151
	11ac(80 MHz)	29.3		42	155
	11ax(20 MHz)	4		48/44/36	165/157/149
	11ax(40 MHz)	8		46/38	159/151
	11ax(80 MHz)	17		42	155
Band Edge (Restricted-band)	11a	6	BPSK	48/36	165/149
	11n(20 MHz)	6.5		48/36	165/149
	11n(40 MHz)	13.5		46/38	159/151
	11ac(20 MHz)	6.5		48/36	165/149
	11ac(40 MHz)	13.5		46/38	159/151
	11ac(80 MHz)	29.3		42	155
	11ax(20 MHz)	4		48/36	165/149
	11ax(40 MHz)	8		46/38	159/151
	11ax(80 MHz)	17		42	155

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 ☆	KDB Publication 662911 D01v02r01	Emissions Testing of Transmitters with Multiple Outputs in the Same Band (e.g., MIMO, Smart Antenna, etc)
4	ANSI C63.10-2013	American National Standard for Testing Unlicensed Wireless Devices

3.2 Test Verdict

No.	Description	FCC Part No.	RSS Part No.	Test Result	Verdict
1	Antenna Requirement	15.203	RSS-247, 6.2	--	Pass ^{Note1}
2	RF Output Power	15.407(a)	RSS-247, 6.2	5.1.4	Pass
3	Emission Bandwidth & 99% Occupied Bandwidth	15.407(a)	RSS-247, 6.2	5.2.4	Pass
4	6 dB bandwidth	15.407(e)	RSS-247, 6.2	5.2.4	Pass
5	Power Spectral Density	15.407(a)	RSS-247, 6.2	5.3.4	Pass
6	Conducted Emission	15.207	RSS-GEN, 8.8	5.4.4	Pass
7	Radiated Spurious Emissions and Band Edge (Restricted-band)	15.407(b)	RSS-247, 6.2	5.5.4	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	54% to 68%	
Atmospheric Pressure	100 kPa to 102 kPa	
Temperature	NT (Normal Temperature)	+20.6°C to +24.9°C
	LT (Low Temperature)	0°C
	HT (High Temperature)	+45°C
Working Voltage of the EUT	NV (Normal Voltage)	5.0 V
	LV (Low Voltage)	4.5 V
	HV (High Voltage)	5.5 V

4.2 Test Equipment List

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	KEYSIGHT	N9020A	MY50330200	2023.05.16	2024.05.15
Spectrum Analyzer	ROHDE&SCHWARZ	FSV-40	101544	2022.12.28	2023.12.27
Spectrum Analyzer	KEYSIGHT	N9020A	MY50531259	2022.09.06	2023.09.05
Test Antenna-Horn	SCHWARZBECK	BBHA 9120D	02460	2021.05.19	2024.05.08
Test Antenna-Horn	A-INFO	LB-180400KF	J211060273	2021.07.02	2024.07.01
Anechoic Chamber	RAINFORD	9m*6m*6m	140	2022.02.19	2024.08.15
EMI Receiver	ROHDE&SCHWARZ	ESRP	101036	2022.09.09	2023.09.08
Test Antenna-Bi-Log	SCHWARZBECK	VULB 9168	00883	2022.04.01	2025.03.31
Test Antenna-Loop	SCHWARZBECK	FMZB 1519	1519-037	2021.04.16	2024.04.15
Anechoic Chamber	EMC Electronic Co., Ltd	20.10*11.60*7.35m	130	2021.08.15	2024.08.14
EMI Receiver	KEYSIGHT	N9010B	MY57110309	2022.09.09	2023.09.08
LISN	SCHWARZBECK	NSLK 8127	8127-687	2023.05.16	2024.05.15
Shielded Enclosure	YiHeng Electronic Co., Ltd	3.5m*3.1m*2.8m	112	2022.02.19	2025.02.18
Amplifier	COM-MV	LSCX_LNA1-12G-01	180602	2020.09.08	2023.09.07
Amplifier	COM-MV	XKu_LNA7-18G-01	180601	2020.09.08	2023.09.07
Amplifier	COM-MV	KA_LNA18-40G-01	18050001	2020.09.08	2023.09.07
Amplifier	COM-MV	ZT30-1000M	B2017119082	2022.12.07	2023.12.06

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%

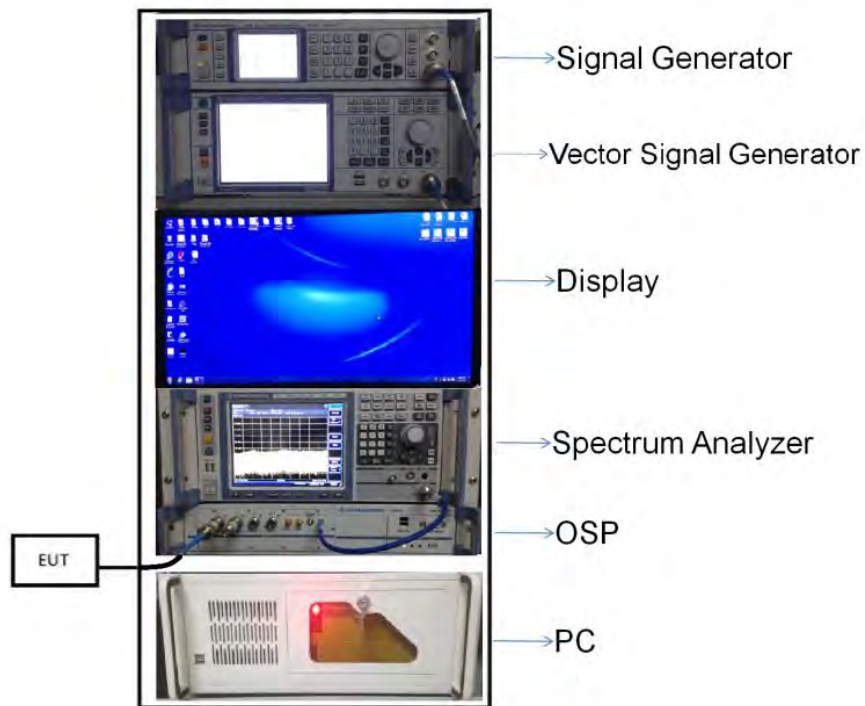
4.5 Description of Test Setup

4.5.1 For Antenna Port Test

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

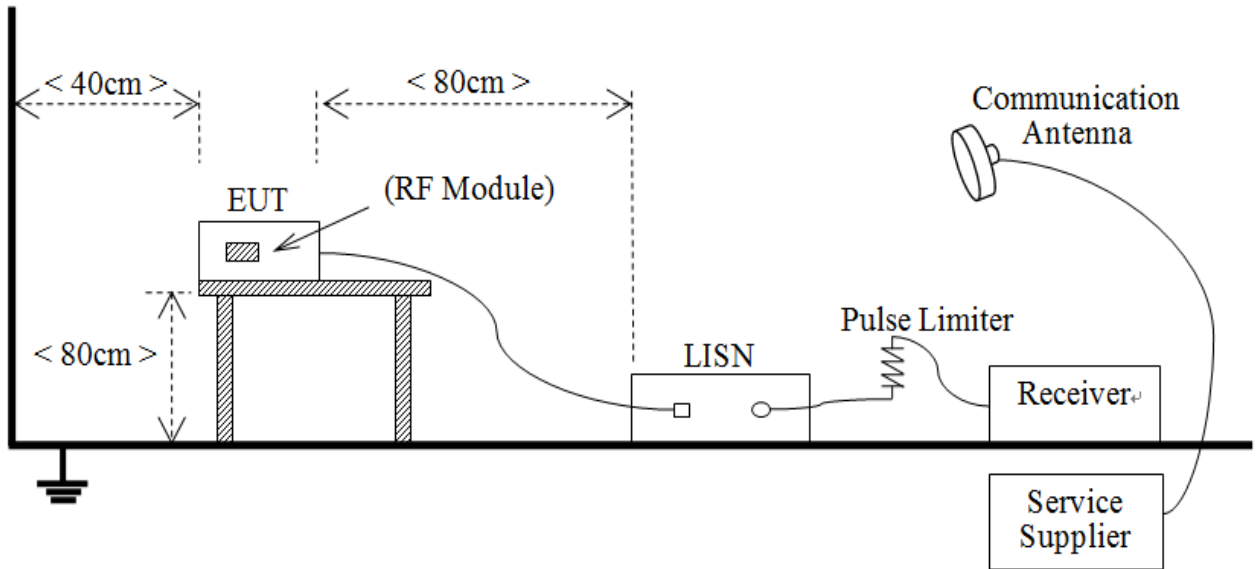
For example: the measurement value is 10 dBm and the cable 0.5dBm used, then the final result of EUT:

Conducted value (dBm) = 10 dBm + 0.5 dB = 10.5 dBm



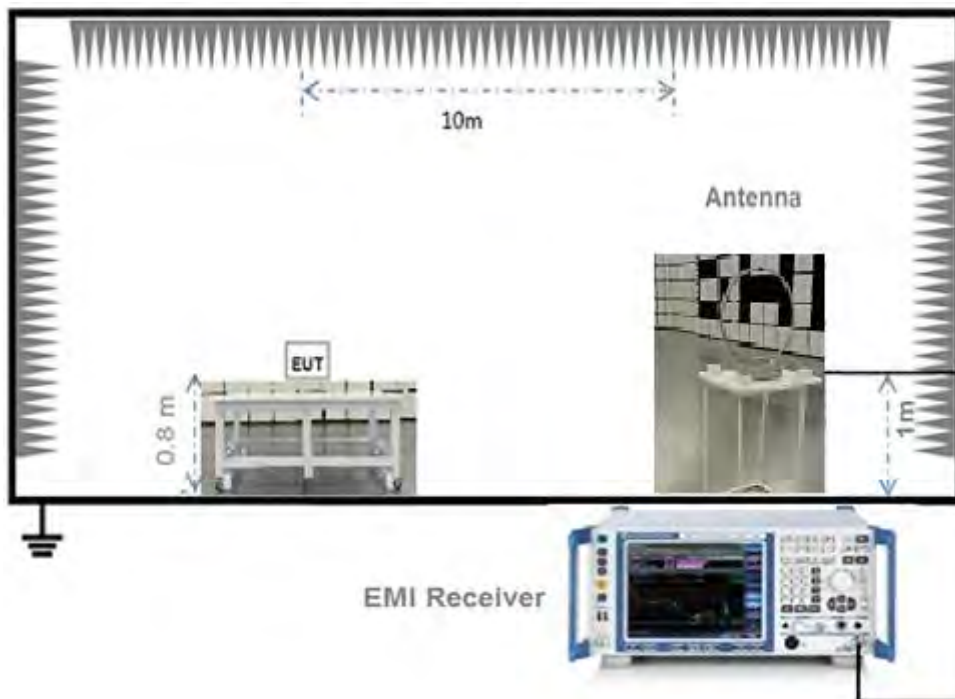
(Diagram 1)

4.5.2 For AC Power Supply Port Test



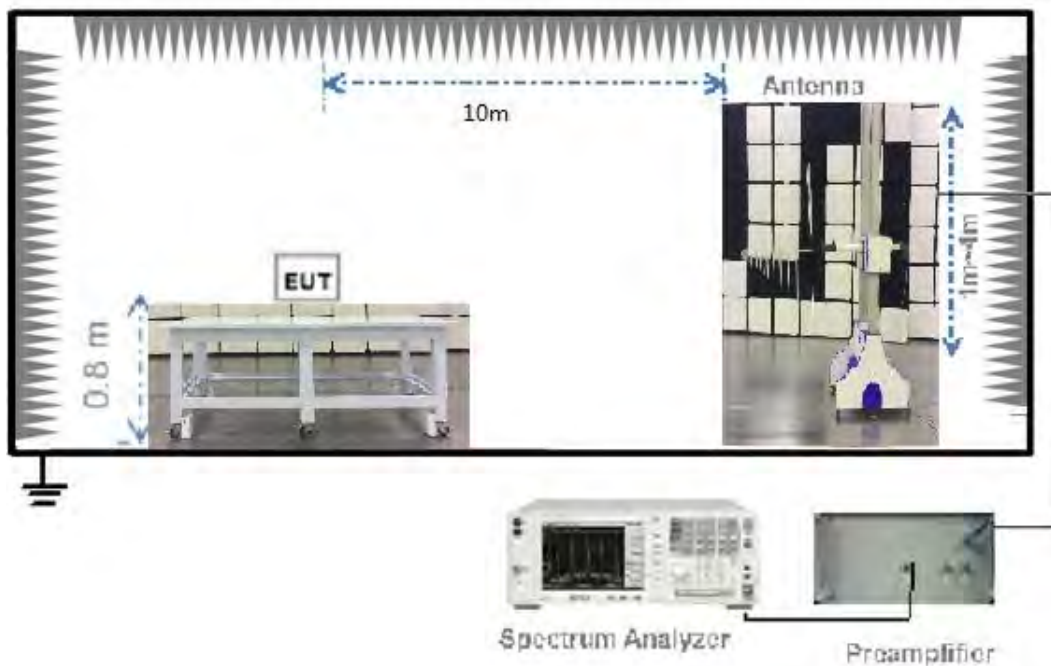
(Diagram 2)

4.5.3 For Radiated Test (Below 30 MHz)



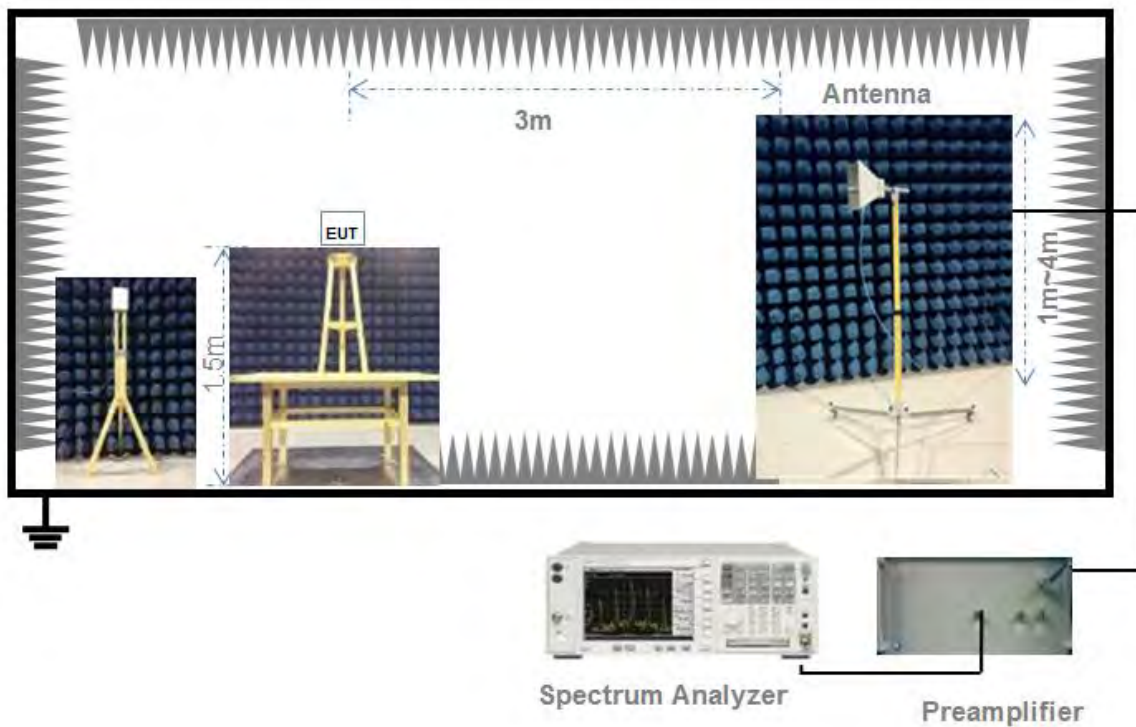
(Diagram 3)

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 A.

5.1.3 Test Procedure

The maximum peak conducted output power may be measured using a broadband Average RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the emission bandwidth and utilize a fast-responding diode detector.

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

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.

Note 2: All the configurations were tested, but only the worst data was shown in this report.

Duty Cycle

Test Mode	On Time (ms)	On+Off time (ms)	Duty Cycle
11a	1.36	1.39	97.77%
11n (HT20)/11ac (VHT20)	1.27	1.30	97.92%
11n (HT40)/11ac (VHT40)	0.64	0.66	95.81%
11ac (VHT80)	0.32	0.34	91.84%
11ax (HE20)(SU)	1.16	1.19	97.57%
11ax (HE40)(SU)	0.62	0.64	95.86%
11ax (HE80)(SU)	0.33	0.36	92.08%

Test DataConducted PowerAntenna 0

U-NII-1 (5150 - 5250 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH36	13.40	21.88	250	Pass
11a	CH44	13.22	20.98	250	Pass
11a	CH48	13.12	20.50	250	Pass
11n (HT20)	CH36	13.35	21.63	250	Pass
11n (HT20)	CH44	13.17	20.75	250	Pass
11n (HT20)	CH48	13.37	21.73	250	Pass
11n (HT40)	CH38	13.21	20.92	250	Pass
11n (HT40)	CH46	13.35	21.61	250	Pass
11ac (VHT20)	CH36	13.32	21.48	250	Pass
11ac (VHT20)	CH44	13.20	20.90	250	Pass
11ac (VHT20)	CH48	13.11	20.47	250	Pass
11ac (VHT40)	CH38	13.20	20.87	250	Pass
11ac (VHT40)	CH46	13.33	21.51	250	Pass
11ac (VHT80)	CH42	13.39	21.83	250	Pass
11ax (HE20)(SU)	CH36	13.32	21.46	250	Pass
11ax (HE20)(SU)	CH44	13.24	21.07	250	Pass
11ax (HE20)(SU)	CH48	13.13	20.54	250	Pass
11ax (HE40)(SU)	CH38	13.30	21.40	250	Pass
11ax (HE40)(SU)	CH46	13.17	20.77	250	Pass
11ax (HE80)(SU)	CH42	13.77	23.81	250	Pass

U-NII-3 (5725 - 5850 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH149	16.18	41.48	1000	Pass
11a	CH157	16.24	42.05	1000	Pass
11a	CH165	16.35	43.13	1000	Pass
11n (HT20)	CH149	13.48	22.29	1000	Pass
11n (HT20)	CH157	13.35	21.63	1000	Pass
11n (HT20)	CH165	13.14	20.61	1000	Pass
11n (HT40)	CH151	13.47	22.21	1000	Pass
11n (HT40)	CH159	13.32	21.46	1000	Pass
11ac (VHT20)	CH149	13.46	22.19	1000	Pass
11ac (VHT20)	CH157	13.24	21.09	1000	Pass
11ac (VHT20)	CH165	13.16	20.71	1000	Pass
11ac (VHT40)	CH151	13.42	21.96	1000	Pass
11ac (VHT40)	CH159	13.22	20.97	1000	Pass
11ac (VHT80)	CH155	13.43	22.03	1000	Pass
11ax (HE20)(SU)	CH149	13.25	21.12	1000	Pass
11ax (HE20)(SU)	CH157	13.23	21.02	1000	Pass
11ax (HE20)(SU)	CH165	13.19	20.83	1000	Pass
11ax (HE40)(SU)	CH151	13.31	21.45	1000	Pass
11ax (HE40)(SU)	CH159	13.39	21.85	1000	Pass
11ax (HE80)(SU)	CH155	13.37	21.72	1000	Pass

Antenna 1

U-NII-1 (5150 - 5250 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH36	13.28	21.27	250	Pass
11a	CH44	13.35	21.62	250	Pass
11a	CH48	13.36	21.67	250	Pass
11n (HT20)	CH36	13.26	21.19	250	Pass
11n (HT20)	CH44	13.27	21.24	250	Pass
11n (HT20)	CH48	13.37	21.73	250	Pass
11n (HT40)	CH38	13.32	21.46	250	Pass
11n (HT40)	CH46	13.38	21.76	250	Pass
11ac (VHT20)	CH36	13.30	21.38	250	Pass
11ac (VHT20)	CH44	13.30	21.38	250	Pass
11ac (VHT20)	CH48	13.37	21.73	250	Pass
11ac (VHT40)	CH38	13.27	21.21	250	Pass
11ac (VHT40)	CH46	13.44	22.06	250	Pass
11ac (VHT80)	CH42	13.34	21.58	250	Pass
11ax (HE20)(SU)	CH36	13.37	21.71	250	Pass
11ax (HE20)(SU)	CH44	12.95	19.71	250	Pass
11ax (HE20)(SU)	CH48	13.40	21.86	250	Pass
11ax (HE40)(SU)	CH38	13.36	21.70	250	Pass
11ax (HE40)(SU)	CH46	13.39	21.85	250	Pass
11ax (HE80)(SU)	CH42	13.52	22.48	250	Pass

U-NII-3 (5725 - 5850 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH149	16.13	41.00	1000	Pass
11a	CH157	16.26	42.25	1000	Pass
11a	CH165	16.33	42.93	1000	Pass
11n (HT20)	CH149	13.33	21.53	1000	Pass
11n (HT20)	CH157	13.26	21.19	1000	Pass
11n (HT20)	CH165	13.14	20.61	1000	Pass
11n (HT40)	CH151	13.36	21.66	1000	Pass
11n (HT40)	CH159	13.40	21.86	1000	Pass
11ac (VHT20)	CH149	13.27	21.24	1000	Pass
11ac (VHT20)	CH157	13.34	21.58	1000	Pass
11ac (VHT20)	CH165	13.16	20.71	1000	Pass
11ac (VHT40)	CH151	13.28	21.26	1000	Pass
11ac (VHT40)	CH159	13.35	21.61	1000	Pass
11ac (VHT80)	CH155	13.40	21.88	1000	Pass
11ax (HE20)(SU)	CH149	13.28	21.27	1000	Pass
11ax (HE20)(SU)	CH157	13.35	21.61	1000	Pass
11ax (HE20)(SU)	CH165	13.22	20.97	1000	Pass
11ax (HE40)(SU)	CH151	13.38	21.80	1000	Pass
11ax (HE40)(SU)	CH159	13.39	21.85	1000	Pass
11ax (HE80)(SU)	CH155	13.60	22.90	1000	Pass

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U-NII-1 (5150 - 5250 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11n (HT20)	CH36	13.39	21.83	250	Pass
11n (HT20)	CH44	13.31	21.43	250	Pass
11n (HT20)	CH48	13.21	20.95	250	Pass
11n (HT40)	CH38	13.37	21.71	250	Pass
11n (HT40)	CH46	13.25	21.11	250	Pass
11ac (VHT20)	CH36	13.42	21.98	250	Pass
11ac (VHT20)	CH44	13.28	21.29	250	Pass
11ac (VHT20)	CH48	13.20	20.90	250	Pass
11ac (VHT40)	CH38	13.40	21.86	250	Pass
11ac (VHT40)	CH46	13.24	21.07	250	Pass
11ac (VHT80)	CH42	13.38	21.78	250	Pass
11ax (HE20)(SU)	CH36	13.43	22.01	250	Pass
11ax (HE20)(SU)	CH44	13.36	21.66	250	Pass
11ax (HE20)(SU)	CH48	13.31	21.41	250	Pass
11ax (HE40)(SU)	CH38	13.41	21.95	250	Pass
11ax (HE40)(SU)	CH46	13.29	21.35	250	Pass
11ax (HE80)(SU)	CH42	13.37	21.72	250	Pass

U-NII-3 (5725 - 5850 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11n (HT20)	CH149	13.47	22.24	1000	Pass
11n (HT20)	CH157	13.47	22.24	1000	Pass
11n (HT20)	CH165	13.12	20.52	1000	Pass
11n (HT40)	CH151	13.41	21.91	1000	Pass
11n (HT40)	CH159	13.48	22.26	1000	Pass
11ac (VHT20)	CH149	13.43	22.03	1000	Pass
11ac (VHT20)	CH157	13.36	21.68	1000	Pass
11ac (VHT20)	CH165	13.13	20.56	1000	Pass
11ac (VHT40)	CH151	13.41	21.91	1000	Pass
11ac (VHT40)	CH159	13.48	22.26	1000	Pass
11ac (VHT80)	CH155	13.34	21.58	1000	Pass
11ax (HE20)(SU)	CH149	13.30	21.36	1000	Pass
11ax (HE20)(SU)	CH157	13.23	21.02	1000	Pass
11ax (HE20)(SU)	CH165	13.15	20.64	1000	Pass
11ax (HE40)(SU)	CH151	13.41	21.95	1000	Pass
11ax (HE40)(SU)	CH159	13.35	21.65	1000	Pass
11ax (HE80)(SU)	CH155	13.42	21.97	1000	Pass

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U-NII-1 (5150 - 5250 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11n (HT20)	CH36	13.43	22.03	250	Pass
11n (HT20)	CH44	13.25	21.14	250	Pass
11n (HT20)	CH48	13.40	21.88	250	Pass
11n (HT40)	CH38	13.25	21.11	250	Pass
11n (HT40)	CH46	13.45	22.11	250	Pass
11ac (VHT20)	CH36	13.34	21.58	250	Pass
11ac (VHT20)	CH44	13.43	22.03	250	Pass
11ac (VHT20)	CH48	13.44	22.09	250	Pass
11ac (VHT40)	CH38	13.45	22.11	250	Pass
11ac (VHT40)	CH46	13.31	21.41	250	Pass
11ac (VHT80)	CH42	13.42	21.98	250	Pass
11ax (HE20)(SU)	CH36	13.44	22.06	250	Pass
11ax (HE20)(SU)	CH44	13.34	21.56	250	Pass
11ax (HE20)(SU)	CH48	13.38	21.76	250	Pass
11ax (HE40)(SU)	CH38	13.21	20.96	250	Pass
11ax (HE40)(SU)	CH46	13.28	21.30	250	Pass
11ax (HE80)(SU)	CH42	13.41	21.92	250	Pass

U-NII-3 (5725 - 5850 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11n (HT20)	CH149	13.31	21.43	1000	Pass
11n (HT20)	CH157	13.37	21.73	1000	Pass
11n (HT20)	CH165	13.18	20.80	1000	Pass
11n (HT40)	CH151	13.34	21.56	1000	Pass
11n (HT40)	CH159	13.44	22.06	1000	Pass
11ac (VHT20)	CH149	13.29	21.34	1000	Pass
11ac (VHT20)	CH157	13.37	21.73	1000	Pass
11ac (VHT20)	CH165	13.20	20.90	1000	Pass
11ac (VHT40)	CH151	13.37	21.71	1000	Pass
11ac (VHT40)	CH159	13.48	22.26	1000	Pass
11ac (VHT80)	CH155	13.38	21.78	1000	Pass
11ax (HE20)(SU)	CH149	13.33	21.51	1000	Pass
11ax (HE20)(SU)	CH157	13.35	21.61	1000	Pass
11ax (HE20)(SU)	CH165	13.28	21.27	1000	Pass
11ax (HE40)(SU)	CH151	13.45	22.15	1000	Pass
11ax (HE40)(SU)	CH159	13.30	21.40	1000	Pass
11ax (HE80)(SU)	CH155	13.43	22.02	1000	Pass

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U-NII-1 (5150 - 5250 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11n (HT20)	CH36	16.42	43.87	250	Pass
11n (HT20)	CH44	16.29	42.57	250	Pass
11n (HT20)	CH48	16.32	42.83	250	Pass
11n (HT40)	CH38	16.32	42.82	250	Pass
11n (HT40)	CH46	16.36	43.22	250	Pass
11ac (VHT20)	CH36	16.39	43.57	250	Pass
11ac (VHT20)	CH44	16.37	43.32	250	Pass
11ac (VHT20)	CH48	16.33	42.98	250	Pass
11ac (VHT40)	CH38	16.43	43.97	250	Pass
11ac (VHT40)	CH46	16.28	42.47	250	Pass
11ac (VHT80)	CH42	16.41	43.75	250	Pass
11ax (HE20)(SU)	CH36	16.44	44.08	250	Pass
11ax (HE20)(SU)	CH44	16.36	43.22	250	Pass
11ax (HE20)(SU)	CH48	16.35	43.18	250	Pass
11ax (HE40)(SU)	CH38	16.33	42.91	250	Pass
11ax (HE40)(SU)	CH46	16.30	42.65	250	Pass
11ax (HE80)(SU)	CH42	16.40	43.64	250	Pass

U-NII-3 (5725 - 5850 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11n (HT20)	CH149	16.40	43.67	1000	Pass
11n (HT20)	CH157	16.43	43.97	1000	Pass
11n (HT20)	CH165	16.16	41.32	1000	Pass
11n (HT40)	CH151	16.38	43.46	1000	Pass
11n (HT40)	CH159	16.47	44.32	1000	Pass
11ac (VHT20)	CH149	16.37	43.37	1000	Pass
11ac (VHT20)	CH157	16.38	43.41	1000	Pass
11ac (VHT20)	CH165	16.18	41.46	1000	Pass
11ac (VHT40)	CH151	16.40	43.61	1000	Pass
11ac (VHT40)	CH159	16.49	44.53	1000	Pass
11ac (VHT80)	CH155	16.37	43.35	1000	Pass
11ax (HE20)(SU)	CH149	16.32	42.88	1000	Pass
11ax (HE20)(SU)	CH157	16.30	42.64	1000	Pass
11ax (HE20)(SU)	CH165	16.22	41.91	1000	Pass
11ax (HE40)(SU)	CH151	16.44	44.10	1000	Pass
11ax (HE40)(SU)	CH159	16.34	43.04	1000	Pass
11ax (HE80)(SU)	CH155	16.43	43.99	1000	Pass

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 A.

5.2.3 Test Procedure

Emission bandwidth

1. Set RBW = approximately 1% of the emission bandwidth.
2. Set VBW $\geq 3 \times$ 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 $\geq 3 \times$ 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

Note 1: All antenna were tested, but only the worst case has been reported in this report.

Note 2: All the configurations were pre tested, only the worst configuration has been reported in this report.

Note 3: Test plots please refer to the document “Annex No.: BL-SZ2380513-602 Data Part 1.pdf”.

Test Data (Emission Bandwidth)

Antenna 0

U-NII-1 (5150 - 5250 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH36	17.86	16.08
11a	CH44	17.81	16.08
11a	CH48	17.80	16.08
11n (HT20)	CH36	18.77	17.17
11n (HT20)	CH44	18.77	17.17
11n (HT20)	CH48	18.77	17.17
11n (HT40)	CH38	38.33	35.47
11n (HT40)	CH46	38.35	35.47
11ac (VHT20)	CH36	18.82	17.17
11ac (VHT20)	CH44	18.80	17.17
11ac (VHT20)	CH48	18.80	17.17
11ac (VHT40)	CH38	38.21	35.57
11ac (VHT40)	CH46	38.22	35.57
11ac (VHT80)	CH42	85.34	75.81
11ax (HE20)(SU)	CH36	20.00	18.59
11ax (HE20)(SU)	CH44	20.00	18.58
11ax (HE20)(SU)	CH48	20.00	18.59
11ax (HE40)(SU)	CH38	39.52	37.06
11ax (HE40)(SU)	CH46	39.53	37.07
11ax (HE80)(SU)	CH42	85.44	75.83

U-NII-3 (5725 - 5850 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH149	18.87	16.09
11a	CH157	17.86	16.09
11a	CH165	17.86	16.08
11n (HT20)	CH149	18.77	17.17
11n (HT20)	CH157	18.75	17.18
11n (HT20)	CH165	18.77	17.17
11n (HT40)	CH151	38.33	35.47
11n (HT40)	CH159	38.35	35.53
11ac (VHT20)	CH149	18.79	17.17
11ac (VHT20)	CH157	18.79	17.18
11ac (VHT20)	CH165	18.79	17.18
11ac (VHT40)	CH151	38.22	35.58
11ac (VHT40)	CH159	38.24	35.62
11ac (VHT80)	CH155	85.68	75.92
11ax (HE20)(SU)	CH149	20.01	18.59
11ax (HE20)(SU)	CH157	20.00	18.59
11ax (HE20)(SU)	CH165	20.01	18.59
11ax (HE40)(SU)	CH151	39.53	37.09
11ax (HE40)(SU)	CH159	39.52	37.12
11ax (HE80)(SU)	CH155	80.56	77.11

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U-NII-1 (5150 - 5250 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH36	17.82	16.09
11a	CH44	17.82	16.09
11a	CH48	17.84	16.09
11n (HT20)	CH36	18.79	17.17
11n (HT20)	CH44	18.80	17.18
11n (HT20)	CH48	18.78	17.18
11n (HT40)	CH38	38.38	35.49
11n (HT40)	CH46	38.38	35.49
11ac (VHT20)	CH36	18.82	17.18
11ac (VHT20)	CH44	18.82	17.18
11ac (VHT20)	CH48	18.82	17.18
11ac (VHT40)	CH38	38.21	35.50
11ac (VHT40)	CH46	38.21	35.59
11ac (VHT80)	CH42	85.33	75.81
11ax (HE20)(SU)	CH36	20.01	18.59
11ax (HE20)(SU)	CH44	20.01	18.59
11ax (HE20)(SU)	CH48	20.01	18.60
11ax (HE40)(SU)	CH38	39.53	37.08
11ax (HE40)(SU)	CH46	39.53	37.08
11ax (HE80)(SU)	CH42	80.48	77.05

U-NII-3 (5725 - 5850 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH149	17.87	16.10
11a	CH157	17.88	16.09
11a	CH165	17.90	16.09
11n (HT20)	CH149	18.76	17.18
11n (HT20)	CH157	18.79	17.19
11n (HT20)	CH165	18.77	17.18
11n (HT40)	CH151	38.34	35.50
11n (HT40)	CH159	38.37	35.53
11ac (VHT20)	CH149	18.80	17.18
11ac (VHT20)	CH157	18.82	17.19
11ac (VHT20)	CH165	18.82	17.18
11ac (VHT40)	CH151	38.22	35.59
11ac (VHT40)	CH159	38.25	35.64
11ac (VHT80)	CH155	85.70	75.90
11ax (HE20)(SU)	CH149	20.02	18.60
11ax (HE20)(SU)	CH157	20.02	18.60
11ax (HE20)(SU)	CH165	20.02	18.61
11ax (HE40)(SU)	CH151	39.53	37.11
11ax (HE40)(SU)	CH159	39.54	37.13
11ax (HE80)(SU)	CH155	80.84	77.04

Note: Test plots please refer to the document "Annex No.: BL-SZ2380513-602 Data Part 2.pdf".

Test Data (6 dB Bandwidth)

Antenna 0

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	6 dB Bandwidth (MHz)	Limit (kHz)	Verdict
11a	CH149	15.15	500.00	Pass
11a	CH157	15.15	500.00	Pass
11a	CH165	15.15	500.00	Pass
11n (HT20)	CH149	15.15	500.00	Pass
11n (HT20)	CH157	15.15	500.00	Pass
11n (HT20)	CH165	15.15	500.00	Pass
11n (HT40)	CH151	32.65	500.00	Pass
11n (HT40)	CH159	33.90	500.00	Pass
11ac (VHT20)	CH149	15.15	500.00	Pass
11ac (VHT20)	CH157	15.15	500.00	Pass
11ac (VHT20)	CH165	15.20	500.00	Pass
11ac (VHT40)	CH151	32.65	500.00	Pass
11ac (VHT40)	CH159	33.90	500.00	Pass
11ac (VHT80)	CH155	75.20	500.00	Pass
11ax (HE20)(SU)	CH149	15.20	500.00	Pass
11ax (HE20)(SU)	CH157	15.15	500.00	Pass
11ax (HE20)(SU)	CH165	15.20	500.00	Pass
11ax (HE40)(SU)	CH151	32.65	500.00	Pass
11ax (HE40)(SU)	CH159	33.90	500.00	Pass
11ax (HE80)(SU)	CH155	75.55	500.00	Pass

Antenna 1

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	6 dB Bandwidth (MHz)	Limit (kHz)	Verdict
11a	CH149	15.15	500.00	Pass
11a	CH157	15.15	500.00	Pass
11a	CH165	15.15	500.00	Pass
11n (HT20)	CH149	15.15	500.00	Pass
11n (HT20)	CH157	15.15	500.00	Pass
11n (HT20)	CH165	15.15	500.00	Pass
11n (HT40)	CH151	32.65	500.00	Pass
11n (HT40)	CH159	33.85	500.00	Pass
11ac (VHT20)	CH149	15.15	500.00	Pass
11ac (VHT20)	CH157	15.15	500.00	Pass
11ac (VHT20)	CH165	15.15	500.00	Pass
11ac (VHT40)	CH151	33.85	500.00	Pass
11ac (VHT40)	CH159	33.85	500.00	Pass
11ac (VHT80)	CH155	75.20	500.00	Pass
11ax (HE20)(SU)	CH149	15.20	500.00	Pass
11ax (HE20)(SU)	CH157	15.15	500.00	Pass
11ax (HE20)(SU)	CH165	15.15	500.00	Pass
11ax (HE40)(SU)	CH151	33.90	500.00	Pass
11ax (HE40)(SU)	CH159	33.90	500.00	Pass
11ax (HE80)(SU)	CH155	75.50	500.00	Pass

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 A.

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 \geq 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

Note 1: Test plots please refer to the document “Annex No.: BL-SZ2380513-602 Data Part 3.pdf”.

Note 2: The RBW used in U-NII-3 is 1 MHz, and the PSD factor is: $10 \cdot \log(500 \text{ kHz/RBW}) = -3 \text{ dBm}$.

Note 3: For FCC standard, if transmitting antennas of directional gain greater than 6 dBi are used, all band of the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. For IC standard, if transmitting antennas of directional gain greater

Note 4: All the configurations were tested, but only the worst data was shown in this report.

Test Data

Antenna 0

U-NII-1 (5150 - 5250 MHz)				
Mode	Channel	PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
11a	CH36	3.38	11.00	Pass
11a	CH44	3.36	11.00	Pass
11a	CH48	3.33	11.00	Pass
11n (HT20)	CH36	3.19	11.00	Pass
11n (HT20)	CH44	2.94	11.00	Pass
11n (HT20)	CH48	3.40	11.00	Pass
11n (HT40)	CH38	0.32	11.00	Pass
11n (HT40)	CH46	0.86	11.00	Pass
11ac (VHT20)	CH36	3.29	11.00	Pass
11ac (VHT20)	CH44	3.09	11.00	Pass
11ac (VHT20)	CH48	3.17	11.00	Pass
11ac (VHT40)	CH38	0.48	11.00	Pass
11ac (VHT40)	CH46	0.66	11.00	Pass
11ac (VHT80)	CH42	-3.33	11.00	Pass
11ax (HE20)(SU)	CH36	2.94	11.00	Pass
11ax (HE20)(SU)	CH44	2.89	11.00	Pass
11ax (HE20)(SU)	CH48	2.72	11.00	Pass
11ax (HE40)(SU)	CH38	0.26	11.00	Pass
11ax (HE40)(SU)	CH46	-0.04	11.00	Pass
11ax (HE80)(SU)	CH42	-3.24	11.00	Pass

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	PSD (dBm/500kHz)	Limit (dBm/500kHz)	Verdict
11a	CH149	3.19	30.00	Pass
11a	CH157	3.00	30.00	Pass
11a	CH165	3.52	30.00	Pass
11n (HT20)	CH149	0.25	30.00	Pass
11n (HT20)	CH157	0.07	30.00	Pass
11n (HT20)	CH165	-0.01	30.00	Pass
11n (HT40)	CH151	-2.51	30.00	Pass
11n (HT40)	CH159	-2.90	30.00	Pass
11ac (VHT20)	CH149	0.17	30.00	Pass
11ac (VHT20)	CH157	-0.08	30.00	Pass
11ac (VHT20)	CH165	-0.07	30.00	Pass
11ac (VHT40)	CH151	-2.76	30.00	Pass
11ac (VHT40)	CH159	-3.04	30.00	Pass
11ac (VHT80)	CH155	-6.65	30.00	Pass
11ax (HE20)(SU)	CH149	-0.03	30.00	Pass
11ax (HE20)(SU)	CH157	-0.35	30.00	Pass
11ax (HE20)(SU)	CH165	-0.31	30.00	Pass
11ax (HE40)(SU)	CH151	-2.99	30.00	Pass
11ax (HE40)(SU)	CH159	-3.14	30.00	Pass
11ax (HE80)(SU)	CH155	-7.27	30.00	Pass

Antenna 1

U-NII-1 (5150 - 5250 MHz)				
Mode	Channel	PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
11a	CH36	3.75	11.00	Pass
11a	CH44	3.73	11.00	Pass
11a	CH48	3.69	11.00	Pass
11n (HT20)	CH36	3.44	11.00	Pass
11n (HT20)	CH44	3.41	11.00	Pass
11n (HT20)	CH48	3.42	11.00	Pass
11n (HT40)	CH38	0.86	11.00	Pass
11n (HT40)	CH46	0.65	11.00	Pass
11ac (VHT20)	CH36	3.47	11.00	Pass
11ac (VHT20)	CH44	3.45	11.00	Pass
11ac (VHT20)	CH48	3.41	11.00	Pass
11ac (VHT40)	CH38	0.46	11.00	Pass
11ac (VHT40)	CH46	0.34	11.00	Pass
11ac (VHT80)	CH42	-3.61	11.00	Pass
11ax (HE20)(SU)	CH36	2.99	11.00	Pass
11ax (HE20)(SU)	CH44	2.43	11.00	Pass
11ax (HE20)(SU)	CH48	3.06	11.00	Pass
11ax (HE40)(SU)	CH38	0.46	11.00	Pass
11ax (HE40)(SU)	CH46	0.26	11.00	Pass
11ax (HE80)(SU)	CH42	-3.32	11.00	Pass

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	PSD (dBm/500kHz)	Limit (dBm/500kHz)	Verdict
11a	CH149	2.88	30.00	Pass
11a	CH157	2.66	30.00	Pass
11a	CH165	3.51	30.00	Pass
11n (HT20)	CH149	0.04	30.00	Pass
11n (HT20)	CH157	-0.07	30.00	Pass
11n (HT20)	CH165	0.18	30.00	Pass
11n (HT40)	CH151	-2.87	30.00	Pass
11n (HT40)	CH159	-2.88	30.00	Pass
11ac (VHT20)	CH149	0.17	30.00	Pass
11ac (VHT20)	CH157	-0.08	30.00	Pass
11ac (VHT20)	CH165	0.14	30.00	Pass
11ac (VHT40)	CH151	-2.79	30.00	Pass
11ac (VHT40)	CH159	-2.92	30.00	Pass
11ac (VHT80)	CH155	-6.47	30.00	Pass
11ax (HE20)(SU)	CH149	-0.22	30.00	Pass
11ax (HE20)(SU)	CH157	-0.42	30.00	Pass
11ax (HE20)(SU)	CH165	-0.23	30.00	Pass
11ax (HE40)(SU)	CH151	-3.19	30.00	Pass
11ax (HE40)(SU)	CH159	-3.01	30.00	Pass
11ax (HE80)(SU)	CH155	-6.69	30.00	Pass

MIMO-Antenna 0

U-NII-1 (5150 - 5250 MHz)				
Mode	Channel	PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
11n (HT20)	CH36	3.15	11.00	Pass
11n (HT20)	CH44	2.93	11.00	Pass
11n (HT20)	CH48	2.91	11.00	Pass
11n (HT40)	CH38	0.50	11.00	Pass
11n (HT40)	CH46	0.20	11.00	Pass
11ac (VHT20)	CH36	3.20	11.00	Pass
11ac (VHT20)	CH44	3.03	11.00	Pass
11ac (VHT20)	CH48	2.98	11.00	Pass
11ac (VHT40)	CH38	0.40	11.00	Pass
11ac (VHT40)	CH46	0.23	11.00	Pass
11ac (VHT80)	CH42	-3.19	11.00	Pass
11ax (HE20)(SU)	CH36	3.18	11.00	Pass
11ax (HE20)(SU)	CH44	2.97	11.00	Pass
11ax (HE20)(SU)	CH48	2.87	11.00	Pass
11ax (HE40)(SU)	CH38	0.44	11.00	Pass
11ax (HE40)(SU)	CH46	0.19	11.00	Pass
11ax (HE80)(SU)	CH42	-3.52	11.00	Pass

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	PSD (dBm/500kHz)	Limit (dBm/500kHz)	Verdict
11n (HT20)	CH149	0.27	30.00	Pass
11n (HT20)	CH157	0.15	30.00	Pass
11n (HT20)	CH165	0.16	30.00	Pass
11n (HT40)	CH151	-2.59	30.00	Pass
11n (HT40)	CH159	-2.73	30.00	Pass
11ac (VHT20)	CH149	0.38	30.00	Pass
11ac (VHT20)	CH157	0.17	30.00	Pass
11ac (VHT20)	CH165	0.25	30.00	Pass
11ac (VHT40)	CH151	-2.76	30.00	Pass
11ac (VHT40)	CH159	-2.86	30.00	Pass
11ac (VHT80)	CH155	-6.43	30.00	Pass
11ax (HE20)(SU)	CH149	0.01	30.00	Pass
11ax (HE20)(SU)	CH157	-0.23	30.00	Pass
11ax (HE20)(SU)	CH165	-0.04	30.00	Pass
11ax (HE40)(SU)	CH151	-2.89	30.00	Pass
11ax (HE40)(SU)	CH159	-2.96	30.00	Pass
11ax (HE80)(SU)	CH155	-6.55	30.00	Pass

MIMO-Antenna 1

U-NII-1 (5150 - 5250 MHz)				
Mode	Channel	PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
11n (HT20)	CH36	3.38	11.00	Pass
11n (HT20)	CH44	3.42	11.00	Pass
11n (HT20)	CH48	3.29	11.00	Pass
11n (HT40)	CH38	0.69	11.00	Pass
11n (HT40)	CH46	0.55	11.00	Pass
11ac (VHT20)	CH36	3.19	11.00	Pass
11ac (VHT20)	CH44	3.19	11.00	Pass
11ac (VHT20)	CH48	3.07	11.00	Pass
11ac (VHT40)	CH38	0.56	11.00	Pass
11ac (VHT40)	CH46	0.50	11.00	Pass
11ac (VHT80)	CH42	-3.37	11.00	Pass
11ax (HE20)(SU)	CH36	3.18	11.00	Pass
11ax (HE20)(SU)	CH44	3.06	11.00	Pass
11ax (HE20)(SU)	CH48	3.04	11.00	Pass
11ax (HE40)(SU)	CH38	0.57	11.00	Pass
11ax (HE40)(SU)	CH46	0.44	11.00	Pass
11ax (HE80)(SU)	CH42	-3.35	11.00	Pass

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	PSD (dBm/500kHz)	Limit (dBm/500kHz)	Verdict
11n (HT20)	CH149	-0.05	30.00	Pass
11n (HT20)	CH157	-0.22	30.00	Pass
11n (HT20)	CH165	-0.02	30.00	Pass
11n (HT40)	CH151	-2.79	30.00	Pass
11n (HT40)	CH159	-2.85	30.00	Pass
11ac (VHT20)	CH149	-0.08	30.00	Pass
11ac (VHT20)	CH157	-0.23	30.00	Pass
11ac (VHT20)	CH165	0.01	30.00	Pass
11ac (VHT40)	CH151	-2.76	30.00	Pass
11ac (VHT40)	CH159	-2.88	30.00	Pass
11ac (VHT80)	CH155	-6.72	30.00	Pass
11ax (HE20)(SU)	CH149	-0.26	30.00	Pass
11ax (HE20)(SU)	CH157	-0.27	30.00	Pass
11ax (HE20)(SU)	CH165	-0.20	30.00	Pass
11ax (HE40)(SU)	CH151	-2.69	30.00	Pass
11ax (HE40)(SU)	CH159	-2.87	30.00	Pass
11ax (HE80)(SU)	CH155	-5.82	30.00	Pass

MIMO

U-NII-1 (5150 - 5250 MHz)				
Mode	Channel	PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
11n (HT20)	CH36	6.27	11.00	Pass
11n (HT20)	CH44	6.19	11.00	Pass
11n (HT20)	CH48	6.12	11.00	Pass
11n (HT40)	CH38	3.60	11.00	Pass
11n (HT40)	CH46	3.39	11.00	Pass
11ac (VHT20)	CH36	6.21	11.00	Pass
11ac (VHT20)	CH44	6.12	11.00	Pass
11ac (VHT20)	CH48	6.03	11.00	Pass
11ac (VHT40)	CH38	3.49	11.00	Pass
11ac (VHT40)	CH46	3.38	11.00	Pass
11ac (VHT80)	CH42	-0.27	11.00	Pass
11ax (HE20)(SU)	CH36	6.19	11.00	Pass
11ax (HE20)(SU)	CH44	6.03	11.00	Pass
11ax (HE20)(SU)	CH48	5.96	11.00	Pass
11ax (HE40)(SU)	CH38	3.52	11.00	Pass
11ax (HE40)(SU)	CH46	3.33	11.00	Pass
11ax (HE80)(SU)	CH42	-0.43	11.00	Pass

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	PSD (dBm/500kHz)	Limit (dBm/500kHz)	Verdict
11n (HT20)	CH149	3.12	30.00	Pass
11n (HT20)	CH157	2.98	30.00	Pass
11n (HT20)	CH165	3.08	30.00	Pass
11n (HT40)	CH151	0.32	30.00	Pass
11n (HT40)	CH159	0.22	30.00	Pass
11ac (VHT20)	CH149	3.17	30.00	Pass
11ac (VHT20)	CH157	2.98	30.00	Pass
11ac (VHT20)	CH165	3.14	30.00	Pass
11ac (VHT40)	CH151	0.25	30.00	Pass
11ac (VHT40)	CH159	0.14	30.00	Pass
11ac (VHT80)	CH155	-3.56	30.00	Pass
11ax (HE20)(SU)	CH149	2.89	30.00	Pass
11ax (HE20)(SU)	CH157	2.76	30.00	Pass
11ax (HE20)(SU)	CH165	2.89	30.00	Pass
11ax (HE40)(SU)	CH151	0.23	30.00	Pass
11ax (HE40)(SU)	CH159	0.10	30.00	Pass
11ax (HE80)(SU)	CH155	-3.16	30.00	Pass

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 50 μ H/50 Ω line impedance stabilization network (LISN).

Frequency range (MHz)	Conducted Limit (dB μ V)	
	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 A.

5.4.3 Test Procedure

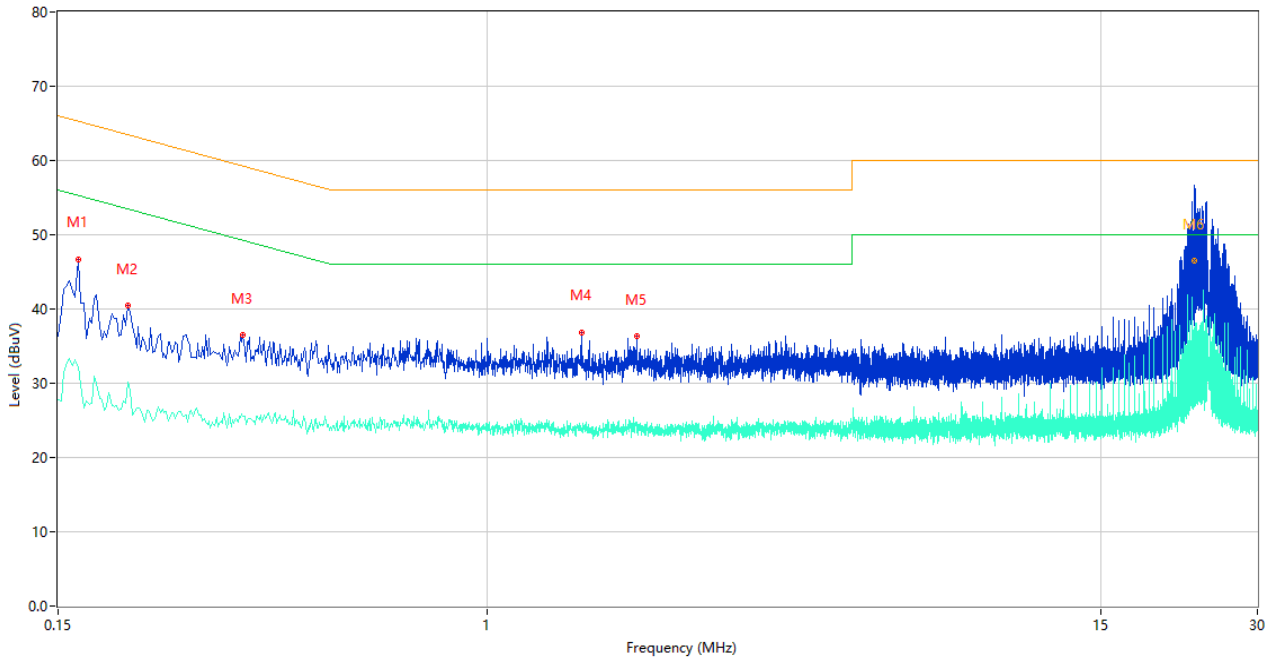
The maximum conducted interference is searched using Peak (PK), if the emission levels more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT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

5.4.4 Test Result

Note: The EUT is working in the Normal link mode.

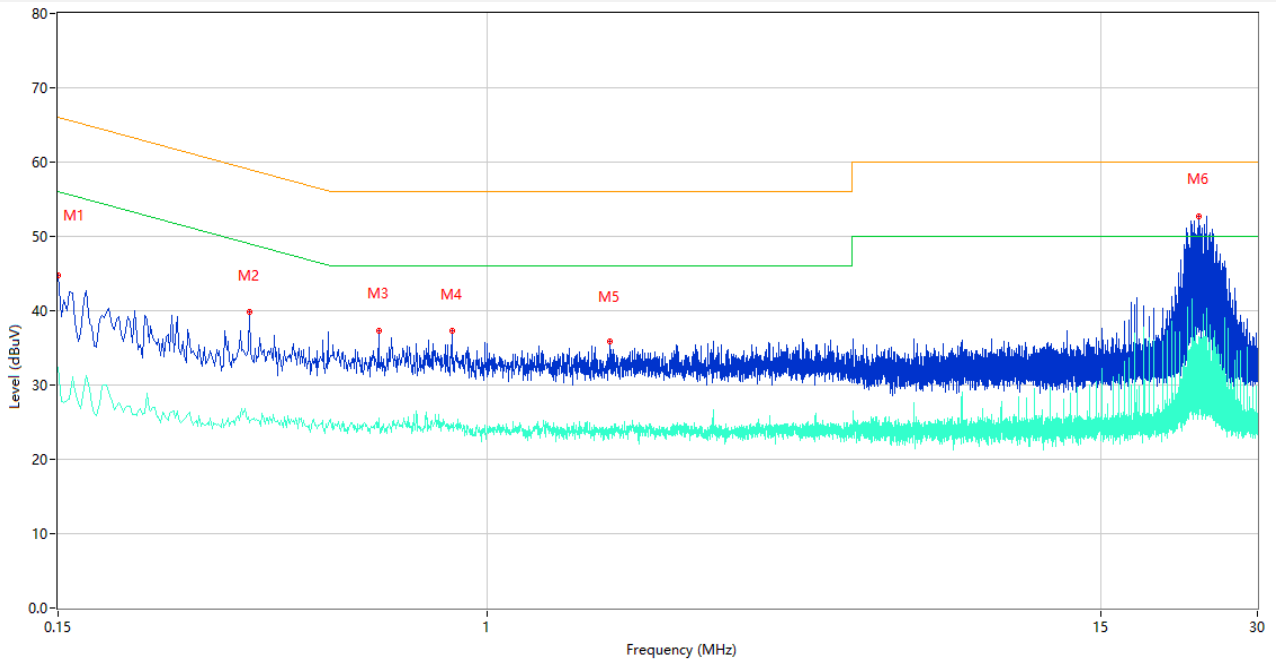
Test Data and Plots

PHASE L



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.164	46.71	9.78	65.26	18.55	Peak	L	Pass
1**	0.164	32.16	9.78	55.26	23.10	AV	L	Pass
2	0.204	40.46	9.77	63.45	22.99	Peak	L	Pass
2**	0.204	30.17	9.77	53.45	23.28	AV	L	Pass
3	0.340	36.48	10.56	59.20	22.72	Peak	L	Pass
3**	0.340	25.58	10.56	49.20	23.62	AV	L	Pass
4	1.514	36.89	10.23	56.00	19.11	Peak	L	Pass
4**	1.514	23.79	10.23	46.00	22.21	AV	L	Pass
5	1.930	36.31	10.38	56.00	19.69	Peak	L	Pass
5**	1.930	24.72	10.38	46.00	21.28	AV	L	Pass
6	22.744	56.07	10.83	60.00	3.93	Peak	L	N/A
6*	22.744	46.58	10.83	60.00	13.42	QP	L	Pass
6**	22.744	36.21	10.83	50.00	13.79	AV	L	Pass

PHASE N



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.150	44.76	9.78	66.00	21.24	Peak	N	Pass
1**	0.150	32.35	9.78	56.00	23.65	AV	N	Pass
2	0.350	39.83	10.76	58.96	19.13	Peak	N	Pass
2**	0.350	24.99	10.76	48.96	23.97	AV	N	Pass
3	0.618	37.38	10.18	56.00	18.62	Peak	N	Pass
3**	0.618	25.54	10.18	46.00	20.46	AV	N	Pass
4	0.854	37.26	10.58	56.00	18.74	Peak	N	Pass
4**	0.854	24.52	10.58	46.00	21.48	AV	N	Pass
5	1.716	35.86	10.18	56.00	20.14	Peak	N	Pass
5**	1.716	23.99	10.18	46.00	22.01	AV	N	Pass
6	23.120	52.74	10.64	60.00	7.26	Peak	N	Pass
6**	23.120	33.40	10.64	50.00	16.60	AV	N	Pass

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

Note¹: The Limit for radiated test was performed according to FCC Part 15C

Note²: 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	<p>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.</p>

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 A.

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:

$$E = \text{EIRP} - 20 \log D + 104.8$$

where:

E = electric field strength in dB μ V/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 $\geq 3 \times$ 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 $\geq 3 \times$ RBW.
- e) Detector = RMS, if $\text{span}/(\# \text{ of points in sweep}) \leq (\text{RBW}/2)$. 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 $f \geq 1$ GHz, 100 kHz for $f < 1$ GHz

VBW \geq RBW

Sweep = auto

Detector function = peak

Trace = max hold

5.5.4 Test Result

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.

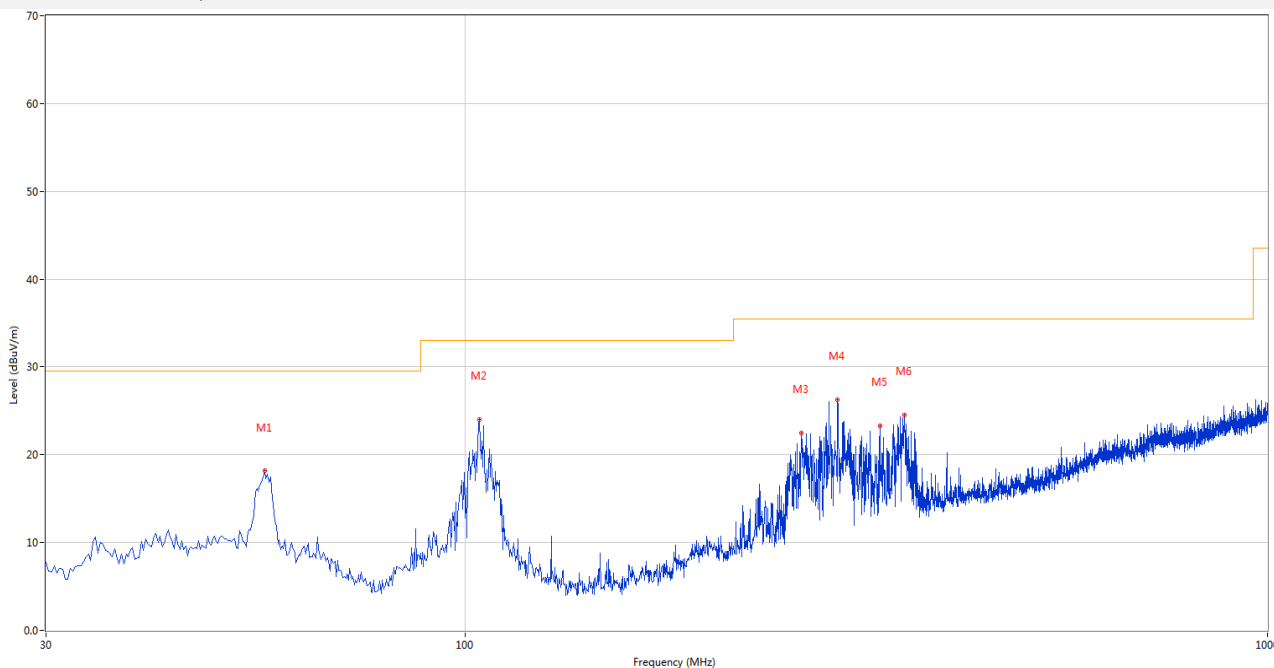
Note 3: The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

Note 4: The EUT is working in the Normal link mode below 1 GHz.

Note 5: For Multiple transmitter output, the quantity $10 \log(NANT)$ dB is added to each spectrum value before comparing to the emission limit. When testing out-of-band and spurious emissions against relative emission limits, tests may be performed on each output individually without summing or adding $10 \log(NANT)$ if the measurements are made relative to the in-band emissions on the individual outputs.

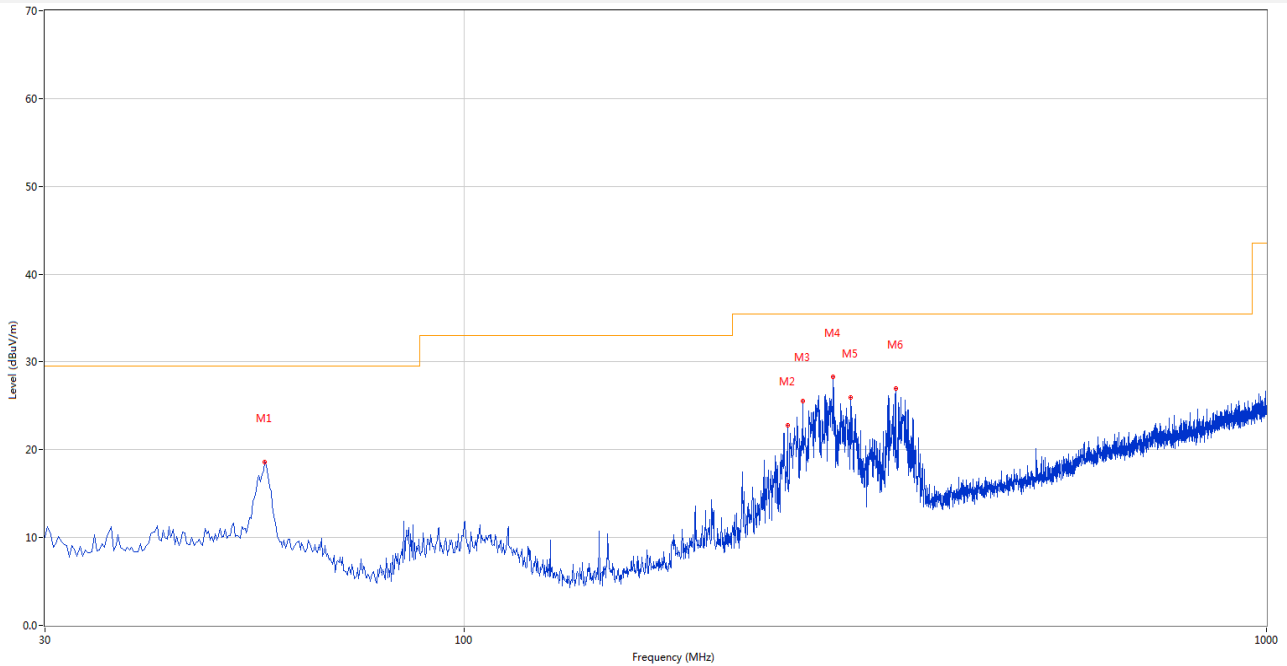
Test Data and Plots

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	56.183	18.14	-26.85	29.5	11.36	Peak	155.00	200	Horizontal	Pass
2	104.186	23.98	-27.75	33.0	9.02	Peak	230.00	200	Horizontal	Pass
3	262.499	22.52	-25.94	35.5	12.98	Peak	288.00	200	Horizontal	Pass
4	291.107	26.26	-25.28	35.5	9.24	Peak	121.00	200	Horizontal	Pass
5	328.685	23.27	-24.34	35.5	12.23	Peak	103.00	200	Horizontal	Pass
6	352.929	24.52	-23.48	35.5	10.98	Peak	87.00	200	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
s	56.426	18.59	-26.92	29.5	10.91	Peak	304.00	100	Vertical	Pass
2	253.044	22.75	-26.26	35.5	12.75	Peak	332.00	100	Vertical	Pass
3	264.196	25.53	-25.82	35.5	9.97	Peak	260.00	100	Vertical	Pass
4	288.198	28.29	-25.17	35.5	7.21	Peak	335.00	100	Vertical	Pass
5	303.229	25.96	-25.08	35.5	9.54	Peak	226.00	100	Vertical	Pass
6	344.929	26.96	-23.54	35.5	8.54	Peak	226.00	100	Vertical	Pass

Note 1: The spurious above 18G is noise only, do not show on the report.

Note 2: All the configurations were pre tested, only the worst configuration has been reported in this report.

Test Data

Antenna 0

11a, U-NII-1, 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	1440.300	45.32	-17.03	74.0	28.68	Peak	317.00	100	Horizontal	Pass
1**	1440.300	31.74	-17.03	54.0	22.26	AV	317.00	100	Horizontal	Pass
2	4262.250	46.96	-4.43	74.0	27.04	Peak	360.00	200	Horizontal	Pass
2**	4262.250	38.52	-4.43	54.0	15.48	AV	360.00	200	Horizontal	Pass
3	5175.250	101.05	-2.80	--	--	Peak	278.00	150	Horizontal	N/A
3**	5175.250	93.37	-2.80	--	--	AV	278.00	150	Horizontal	N/A
4	7306.750	53.64	0.39	74.0	20.36	Peak	346.00	100	Horizontal	Pass
4**	7306.750	43.60	0.39	54.0	10.40	AV	346.00	100	Horizontal	Pass
5	11800.475	51.89	-0.15	74.0	22.11	Peak	88.00	150	Horizontal	Pass
5**	11800.475	43.62	-0.15	54.0	10.38	AV	88.00	150	Horizontal	Pass
6	16157.776	53.64	2.10	74.0	20.36	Peak	247.00	400	Horizontal	Pass
6**	16157.776	45.02	2.10	54.0	8.98	AV	247.00	400	Horizontal	Pass

11a, U-NII-1, 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	1497.100	41.47	-16.69	74.0	32.53	Peak	107.00	200	Vertical	Pass
1**	1497.100	28.83	-16.69	54.0	25.17	AV	107.00	200	Vertical	Pass
2	4314.000	46.34	-4.99	74.0	27.66	Peak	237.00	400	Vertical	Pass
2**	4314.000	37.84	-4.99	54.0	16.16	AV	237.00	400	Vertical	Pass
3	5181.000	90.07	-2.37	--	--	Peak	211.00	100	Vertical	N/A
3**	5181.000	82.67	-2.37	--	--	AV	211.00	100	Vertical	N/A
4	7358.750	53.10	0.94	74.0	20.90	Peak	76.00	150	Vertical	Pass
4**	7358.750	44.09	0.94	54.0	9.91	AV	76.00	150	Vertical	Pass
5	12525.325	52.33	1.29	74.0	21.67	Peak	0.00	100	Vertical	Pass
5**	12525.325	43.11	1.29	54.0	10.89	AV	0.00	100	Vertical	Pass
6	16186.651	53.18	1.90	74.0	20.82	Peak	342.00	300	Vertical	Pass
6**	16186.651	44.56	1.90	54.0	9.44	AV	342.00	300	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1440.500	44.17	-16.99	74.0	29.83	Peak	76.00	100	Horizontal	Pass
1**	1440.500	32.29	-16.99	54.0	21.71	AV	76.00	100	Horizontal	Pass
2	4345.500	47.00	-4.71	74.0	27.00	Peak	0.00	100	Horizontal	Pass
2**	4345.500	37.75	-4.71	54.0	16.25	AV	0.00	100	Horizontal	Pass
3	5218.250	100.73	-2.79	--	--	Peak	318.00	150	Horizontal	N/A
3**	5218.250	92.79	-2.79	--	--	AV	318.00	150	Horizontal	N/A
4	7729.500	53.21	0.82	74.0	20.79	Peak	115.00	300	Horizontal	Pass
4**	7729.500	44.13	0.82	54.0	9.87	AV	115.00	300	Horizontal	Pass
5	11789.075	53.01	-0.16	74.0	20.99	Peak	74.00	200	Horizontal	Pass
5**	11789.075	43.90	-0.16	54.0	10.10	AV	74.00	200	Horizontal	Pass
6	16161.188	53.66	2.08	74.0	20.34	Peak	349.00	400	Horizontal	Pass
6**	16161.188	44.36	2.08	54.0	9.64	AV	349.00	400	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1440.500	42.06	-16.99	74.0	31.94	Peak	36.00	300	Vertical	Pass
1**	1440.500	29.18	-16.99	54.0	24.82	AV	36.00	300	Vertical	Pass
2	4272.250	46.99	-5.22	74.0	27.01	Peak	52.00	300	Vertical	Pass
2**	4272.250	37.94	-5.22	54.0	16.06	AV	52.00	300	Vertical	Pass
3	5219.000	87.99	-2.84	--	--	Peak	135.00	100	Vertical	N/A
3**	5219.000	80.70	-2.84	--	--	AV	135.00	100	Vertical	N/A
4	7358.750	53.36	0.94	74.0	20.64	Peak	164.00	200	Vertical	Pass
4**	7358.750	44.58	0.94	54.0	9.42	AV	164.00	200	Vertical	Pass
5	11671.513	52.20	-0.99	74.0	21.80	Peak	141.00	100	Vertical	Pass
5**	11671.513	42.02	-0.99	54.0	11.98	AV	141.00	100	Vertical	Pass
6	16173.787	54.08	1.99	74.0	19.92	Peak	35.00	200	Vertical	Pass
6**	16173.787	44.29	1.99	54.0	9.71	AV	35.00	200	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1439.000	43.64	-16.92	74.0	30.36	Peak	64.00	100	Horizontal	Pass
1**	1439.000	31.59	-16.92	54.0	22.41	AV	64.00	100	Horizontal	Pass
2	4202.250	46.49	-5.50	74.0	27.51	Peak	257.00	400	Horizontal	Pass
2**	4202.250	37.30	-5.50	54.0	16.70	AV	257.00	400	Horizontal	Pass
3	5235.250	100.68	-2.86	--	--	Peak	279.00	150	Horizontal	N/A
3**	5235.250	92.89	-2.86	--	--	AV	279.00	150	Horizontal	N/A
4	7742.500	53.15	0.60	74.0	20.85	Peak	115.00	100	Horizontal	Pass
4**	7742.500	44.77	0.60	54.0	9.23	AV	115.00	100	Horizontal	Pass
5	11783.375	52.40	-0.16	74.0	21.60	Peak	49.00	100	Horizontal	Pass
5**	11783.375	43.14	-0.16	54.0	10.86	AV	49.00	100	Horizontal	Pass
6	16159.875	54.31	2.09	74.0	19.69	Peak	89.00	300	Horizontal	Pass
6**	16159.875	45.16	2.09	54.0	8.84	AV	89.00	300	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1436.000	39.66	-17.14	74.0	34.34	Peak	36.00	200	Vertical	Pass
1**	1436.000	29.43	-17.14	54.0	24.57	AV	36.00	200	Vertical	Pass
2	4252.000	46.64	-4.23	74.0	27.36	Peak	259.00	200	Vertical	Pass
2**	4252.000	37.74	-4.23	54.0	16.26	AV	259.00	200	Vertical	Pass
3	5238.750	90.15	-2.91	--	--	Peak	104.00	100	Vertical	N/A
3**	5238.750	81.82	-2.91	--	--	AV	104.00	100	Vertical	N/A
4	7315.000	52.95	0.59	74.0	21.05	Peak	215.00	300	Vertical	Pass
4**	7315.000	43.58	0.59	54.0	10.42	AV	215.00	300	Vertical	Pass
5	12079.300	52.74	-0.20	74.0	21.26	Peak	246.00	200	Vertical	Pass
5**	12079.300	41.68	-0.20	54.0	12.32	AV	246.00	200	Vertical	Pass
6	16167.224	54.05	2.04	74.0	19.95	Peak	210.00	300	Vertical	Pass
6**	16167.224	44.82	2.04	54.0	9.18	AV	210.00	300	Vertical	Pass

11n20, U-NII-1, 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	1439.500	43.13	-17.07	74.0	30.87	Peak	69.00	300	Horizontal	Pass
1**	1439.500	30.74	-17.07	54.0	23.26	AV	69.00	300	Horizontal	Pass
2	4352.000	46.71	-4.80	74.0	27.29	Peak	0.00	300	Horizontal	Pass
2**	4352.000	37.73	-4.80	54.0	16.27	AV	0.00	300	Horizontal	Pass
3	5183.750	99.53	-2.33	--	--	Peak	330.00	200	Horizontal	N/A
3**	5183.750	92.89	-2.33	--	--	AV	330.00	200	Horizontal	N/A
4	7484.500	53.75	1.16	74.0	20.25	Peak	360.00	300	Horizontal	Pass
4**	7484.500	44.29	1.16	54.0	9.71	AV	360.00	300	Horizontal	Pass
5	11798.575	52.44	-0.15	74.0	21.56	Peak	20.00	200	Horizontal	Pass
5**	11798.575	43.50	-0.15	54.0	10.50	AV	20.00	200	Horizontal	Pass
6	16175.625	54.84	1.98	74.0	19.16	Peak	298.00	200	Horizontal	Pass
6**	16175.625	44.98	1.98	54.0	9.02	AV	298.00	200	Horizontal	Pass

11n20, U-NII-1, 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	1493.800	40.54	-17.16	74.0	33.46	Peak	112.00	100	Vertical	Pass
1**	1493.800	28.45	-17.16	54.0	25.55	AV	112.00	100	Vertical	Pass
2	4256.250	46.96	-4.17	74.0	27.04	Peak	149.00	300	Vertical	Pass
2**	4256.250	38.29	-4.17	54.0	15.71	AV	149.00	300	Vertical	Pass
3	5178.750	90.72	-2.72	--	--	Peak	201.00	100	Vertical	N/A
3**	5178.750	83.34	-2.72	--	--	AV	201.00	100	Vertical	N/A
4	7488.250	53.06	1.51	74.0	20.94	Peak	324.00	100	Vertical	Pass
4**	7488.250	44.49	1.51	54.0	9.51	AV	324.00	100	Vertical	Pass
5	12433.412	52.86	1.06	74.0	21.14	Peak	113.00	200	Vertical	Pass
5**	12433.412	42.99	1.06	54.0	11.01	AV	113.00	200	Vertical	Pass
6	16182.450	53.31	1.93	74.0	20.69	Peak	127.00	300	Vertical	Pass
6**	16182.450	44.65	1.93	54.0	9.35	AV	127.00	300	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1440.400	43.37	-17.01	74.0	30.63	Peak	71.00	400	Horizontal	Pass
1**	1440.400	29.98	-17.01	54.0	24.02	AV	71.00	400	Horizontal	Pass
2	4279.000	47.71	-4.67	74.0	26.29	Peak	285.00	100	Horizontal	Pass
2**	4279.000	37.46	-4.67	54.0	16.54	AV	285.00	100	Horizontal	Pass
3	5218.750	101.57	-2.94	--	--	Peak	285.00	150	Horizontal	N/A
3**	5218.750	93.45	-2.94	--	--	AV	285.00	150	Horizontal	N/A
4	7356.000	53.10	0.49	74.0	20.90	Peak	359.00	100	Horizontal	Pass
4**	7356.000	44.81	0.49	54.0	9.19	AV	359.00	100	Horizontal	Pass
5	12554.299	52.35	1.07	74.0	21.65	Peak	162.00	100	Horizontal	Pass
5**	12554.299	42.25	1.07	54.0	11.75	AV	162.00	100	Horizontal	Pass
6	16166.700	53.88	2.04	74.0	20.12	Peak	314.00	100	Horizontal	Pass
6**	16166.700	44.37	2.04	54.0	9.63	AV	314.00	100	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1441.400	41.26	-16.85	74.0	32.74	Peak	127.00	200	Vertical	Pass
1**	1441.400	30.53	-16.85	54.0	23.47	AV	127.00	200	Vertical	Pass
2	4287.750	46.67	-4.60	74.0	27.33	Peak	213.00	200	Vertical	Pass
2**	4287.750	37.14	-4.60	54.0	16.86	AV	213.00	200	Vertical	Pass
3	5219.000	89.72	-2.84	--	--	Peak	93.00	150	Vertical	N/A
3**	5219.000	81.41	-2.84	--	--	AV	93.00	150	Vertical	N/A
4	7489.500	53.10	1.46	74.0	20.90	Peak	19.00	300	Vertical	Pass
4**	7489.500	43.98	1.46	54.0	10.02	AV	19.00	300	Vertical	Pass
5	11790.975	52.56	-0.15	74.0	21.44	Peak	264.00	100	Vertical	Pass
5**	11790.975	43.47	-0.15	54.0	10.53	AV	264.00	100	Vertical	Pass
6	16169.850	54.41	2.02	74.0	19.59	Peak	91.00	100	Vertical	Pass
6**	16169.850	45.79	2.02	54.0	8.21	AV	91.00	100	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1441.800	43.57	-17.03	74.0	30.43	Peak	72.00	100	Horizontal	Pass
1**	1441.800	30.11	-17.03	54.0	23.89	AV	72.00	100	Horizontal	Pass
2	4337.000	47.29	-4.74	74.0	26.71	Peak	334.00	400	Horizontal	Pass
2**	4337.000	37.55	-4.74	54.0	16.45	AV	334.00	400	Horizontal	Pass
3	5238.750	100.66	-2.91	--	--	Peak	300.00	150	Horizontal	N/A
3**	5238.750	93.30	-2.91	--	--	AV	300.00	150	Horizontal	N/A
4	7729.750	53.22	0.53	74.0	20.78	Peak	132.00	300	Horizontal	Pass
4**	7729.750	43.64	0.53	54.0	10.36	AV	132.00	300	Horizontal	Pass
5	11792.162	52.53	-0.15	74.0	21.47	Peak	132.00	100	Horizontal	Pass
5**	11792.162	43.56	-0.15	54.0	10.44	AV	132.00	100	Horizontal	Pass
6	16168.275	53.72	2.03	74.0	20.28	Peak	169.00	400	Horizontal	Pass
6**	16168.275	45.15	2.03	54.0	8.85	AV	169.00	400	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1435.200	40.21	-17.03	74.0	33.79	Peak	47.00	200	Vertical	Pass
1**	1435.200	28.73	-17.03	54.0	25.27	AV	47.00	200	Vertical	Pass
2	4240.500	46.44	-5.03	74.0	27.56	Peak	168.00	300	Vertical	Pass
2**	4240.500	36.83	-5.03	54.0	17.17	AV	168.00	300	Vertical	Pass
3	5238.750	90.59	-2.91	--	--	Peak	103.00	150	Vertical	N/A
3**	5238.750	82.76	-2.91	--	--	AV	103.00	150	Vertical	N/A
4	7483.000	52.54	0.95	74.0	21.46	Peak	190.00	150	Vertical	Pass
4**	7483.000	43.54	0.95	54.0	10.46	AV	190.00	150	Vertical	Pass
5	11801.900	52.43	-0.17	74.0	21.57	Peak	190.00	100	Vertical	Pass
5**	11801.900	44.18	-0.17	54.0	9.82	AV	190.00	100	Vertical	Pass
6	16178.513	53.63	1.96	74.0	20.37	Peak	230.00	400	Vertical	Pass
6**	16178.513	44.65	1.96	54.0	9.35	AV	230.00	400	Vertical	Pass

11n40, U-NII-1, 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	1439.500	42.95	-17.07	74.0	31.05	Peak	70.00	100	Horizontal	Pass
1**	1439.500	30.40	-17.07	54.0	23.60	AV	70.00	100	Horizontal	Pass
2	4351.750	47.16	-4.70	74.0	26.84	Peak	259.00	400	Horizontal	Pass
2**	4351.750	37.18	-4.70	54.0	16.82	AV	259.00	400	Horizontal	Pass
3	5191.750	97.41	-2.58	--	--	Peak	293.00	100	Horizontal	N/A
3**	5191.750	89.03	-2.58	--	--	AV	293.00	100	Horizontal	N/A
4	7731.000	53.14	0.38	74.0	20.86	Peak	329.00	100	Horizontal	Pass
4**	7731.000	44.21	0.38	54.0	9.79	AV	329.00	100	Horizontal	Pass
5	11790.975	53.06	-0.15	74.0	20.94	Peak	254.00	100	Horizontal	Pass
5**	11790.975	43.25	-0.15	54.0	10.75	AV	254.00	100	Horizontal	Pass
6	16181.662	54.01	1.94	74.0	19.99	Peak	219.00	100	Horizontal	Pass
6**	16181.662	44.43	1.94	54.0	9.57	AV	219.00	100	Horizontal	Pass

11n40, U-NII-1, 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	1436.900	40.76	-17.01	74.0	33.24	Peak	272.00	400	Vertical	Pass
1**	1436.900	31.05	-17.01	54.0	22.95	AV	272.00	400	Vertical	Pass
2	4287.750	47.21	-4.60	74.0	26.79	Peak	338.00	100	Vertical	Pass
2**	4287.750	37.55	-4.60	54.0	16.45	AV	338.00	100	Vertical	Pass
3	5185.000	86.64	-2.34	--	--	Peak	111.00	100	Vertical	N/A
3**	5185.000	78.78	-2.34	--	--	AV	111.00	100	Vertical	N/A
4	7489.000	53.92	1.20	74.0	20.08	Peak	191.00	100	Vertical	Pass
4**	7489.000	43.31	1.20	54.0	10.69	AV	191.00	100	Vertical	Pass
5	11793.588	52.14	-0.15	74.0	21.86	Peak	0.00	200	Vertical	Pass
5**	11793.588	43.93	-0.15	54.0	10.07	AV	0.00	200	Vertical	Pass
6	16097.925	53.64	1.72	74.0	20.36	Peak	302.00	400	Vertical	Pass
6**	16097.925	44.64	1.72	54.0	9.36	AV	302.00	400	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1442.700	42.86	-16.97	74.0	31.14	Peak	74.00	100	Horizontal	Pass
1**	1442.700	30.95	-16.97	54.0	23.05	AV	74.00	100	Horizontal	Pass
2	4190.500	46.75	-5.37	74.0	27.25	Peak	207.00	200	Horizontal	Pass
2**	4190.500	36.93	-5.37	54.0	17.07	AV	207.00	200	Horizontal	Pass
3	5228.750	97.60	-3.26	--	--	Peak	290.00	100	Horizontal	N/A
3**	5228.750	90.46	-3.26	--	--	AV	290.00	100	Horizontal	N/A
4	7655.250	53.36	1.30	74.0	20.64	Peak	290.00	300	Horizontal	Pass
4**	7655.250	43.77	1.30	54.0	10.23	AV	290.00	300	Horizontal	Pass
5	12345.775	52.73	0.82	74.0	21.27	Peak	104.00	200	Horizontal	Pass
5**	12345.775	43.17	0.82	54.0	10.83	AV	104.00	200	Horizontal	Pass
6	16173.525	53.83	1.99	74.0	20.17	Peak	228.00	400	Horizontal	Pass
6**	16173.525	44.95	1.99	54.0	9.05	AV	228.00	400	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1439.000	40.67	-16.92	74.0	33.33	Peak	36.00	400	Vertical	Pass
1**	1439.000	29.06	-16.92	54.0	24.94	AV	36.00	400	Vertical	Pass
2	4237.500	46.67	-5.10	74.0	27.33	Peak	208.00	400	Vertical	Pass
2**	4237.500	37.86	-5.10	54.0	16.14	AV	208.00	400	Vertical	Pass
3	5232.250	86.32	-2.99	--	--	Peak	100.00	150	Vertical	N/A
3**	5232.250	79.48	-2.99	--	--	AV	100.00	150	Vertical	N/A
4	7364.250	52.87	0.77	74.0	21.13	Peak	100.00	200	Vertical	Pass
4**	7364.250	43.78	0.77	54.0	10.22	AV	100.00	200	Vertical	Pass
5	12374.513	53.03	0.97	74.0	20.97	Peak	23.00	200	Vertical	Pass
5**	12374.513	42.78	0.97	54.0	11.22	AV	23.00	200	Vertical	Pass
6	16144.125	53.55	2.10	74.0	20.45	Peak	91.00	200	Vertical	Pass
6**	16144.125	44.14	2.10	54.0	9.86	AV	91.00	200	Vertical	Pass

11ac20, U-NII-1, 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	1438.500	42.67	-17.03	74.0	31.33	Peak	82.00	100	Horizontal	Pass
1**	1438.500	29.65	-17.03	54.0	24.35	AV	82.00	100	Horizontal	Pass
2	4249.000	46.79	-4.30	74.0	27.21	Peak	295.00	300	Horizontal	Pass
2**	4249.000	38.06	-4.30	54.0	15.94	AV	295.00	300	Horizontal	Pass
3	5178.750	100.07	-2.72	--	--	Peak	262.00	200	Horizontal	N/A
3**	5178.750	91.64	-2.72	--	--	AV	262.00	200	Horizontal	N/A
4	7740.750	53.20	0.46	74.0	20.80	Peak	24.00	200	Horizontal	Pass
4**	7740.750	44.24	0.46	54.0	9.76	AV	24.00	200	Horizontal	Pass
5	11783.137	52.90	-0.16	74.0	21.10	Peak	101.00	200	Horizontal	Pass
5**	11783.137	43.33	-0.16	54.0	10.67	AV	101.00	200	Horizontal	Pass
6	16167.750	54.30	2.03	74.0	19.70	Peak	298.00	300	Horizontal	Pass
6**	16167.750	45.24	2.03	54.0	8.76	AV	298.00	300	Horizontal	Pass

11ac20, U-NII-1, 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	1500.100	40.05	-16.88	74.0	33.95	Peak	191.00	200	Vertical	Pass
1**	1500.100	29.27	-16.88	54.0	24.73	AV	191.00	200	Vertical	Pass
2	4294.000	47.00	-4.73	74.0	27.00	Peak	38.00	200	Vertical	Pass
2**	4294.000	37.11	-4.73	54.0	16.89	AV	38.00	200	Vertical	Pass
3	5181.000	89.87	-2.37	--	--	Peak	74.00	100	Vertical	N/A
3**	5181.000	82.55	-2.37	--	--	AV	74.00	100	Vertical	N/A
4	7645.750	53.48	1.10	74.0	20.52	Peak	341.00	200	Vertical	Pass
4**	7645.750	43.90	1.10	54.0	10.10	AV	341.00	200	Vertical	Pass
5	11793.825	52.79	-0.15	74.0	21.21	Peak	0.00	200	Vertical	Pass
5**	11793.825	44.30	-0.15	54.0	9.70	AV	0.00	200	Vertical	Pass
6	16175.362	53.97	1.98	74.0	20.03	Peak	108.00	100	Vertical	Pass
6**	16175.362	45.02	1.98	54.0	8.98	AV	108.00	100	Vertical	Pass

11ac20, U-NII-1, 1 GHz to 18 GHz, Middle Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1440.100	43.26	-17.08	74.0	30.74	Peak	76.00	100	Horizontal	Pass
1**	1440.100	30.20	-17.08	54.0	23.80	AV	76.00	100	Horizontal	Pass
2	4339.750	46.69	-5.21	74.0	27.31	Peak	36.00	300	Horizontal	Pass
2**	4339.750	36.44	-5.21	54.0	17.56	AV	36.00	300	Horizontal	Pass
3	5219.000	100.58	-2.84	--	--	Peak	251.00	100	Horizontal	N/A
3**	5219.000	93.55	-2.84	--	--	AV	251.00	100	Horizontal	N/A
4	7483.500	53.50	1.28	74.0	20.50	Peak	1.00	400	Horizontal	Pass
4**	7483.500	45.25	1.28	54.0	8.75	AV	1.00	400	Horizontal	Pass
5	11789.550	52.45	-0.16	74.0	21.55	Peak	343.00	150	Horizontal	Pass
5**	11789.550	43.65	-0.16	54.0	10.35	AV	343.00	150	Horizontal	Pass
6	16150.950	53.47	2.15	74.0	20.53	Peak	0.00	200	Horizontal	Pass
6**	16150.950	45.24	2.15	54.0	8.76	AV	0.00	200	Horizontal	Pass

11ac20, U-NII-1, 1 GHz to 18 GHz, Middle Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1497.900	40.67	-16.85	74.0	33.33	Peak	134.00	300	Vertical	Pass
1**	1497.900	29.28	-16.85	54.0	24.72	AV	134.00	300	Vertical	Pass
2	4256.500	46.89	-4.25	74.0	27.11	Peak	298.00	200	Vertical	Pass
2**	4256.500	37.48	-4.25	54.0	16.52	AV	298.00	200	Vertical	Pass
3	5221.000	89.07	-2.98	--	--	Peak	60.00	100	Vertical	N/A
3**	5221.000	81.24	-2.98	--	--	AV	60.00	100	Vertical	N/A
4	7497.000	52.82	0.60	74.0	21.18	Peak	264.00	400	Vertical	Pass
4**	7497.000	43.54	0.60	54.0	10.46	AV	264.00	400	Vertical	Pass
5	11793.588	52.16	-0.15	74.0	21.84	Peak	135.00	100	Vertical	Pass
5**	11793.588	43.88	-0.15	54.0	10.12	AV	135.00	100	Vertical	Pass
6	16147.013	53.68	2.13	74.0	20.32	Peak	336.00	300	Vertical	Pass
6**	16147.013	43.95	2.13	54.0	10.05	AV	336.00	300	Vertical	Pass

11ac20, U-NII-1, 1 GHz to 18 GHz, High Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1443.700	42.65	-16.88	74.0	31.35	Peak	74.00	400	Horizontal	Pass
1**	1443.700	29.53	-16.88	54.0	24.47	AV	74.00	400	Horizontal	Pass
2	4257.000	46.71	-4.04	74.0	27.29	Peak	128.00	100	Horizontal	Pass
2**	4257.000	37.75	-4.04	54.0	16.25	AV	128.00	100	Horizontal	Pass
3	5241.750	99.40	-3.09	--	--	Peak	269.00	100	Horizontal	N/A
3**	5241.750	92.65	-3.09	--	--	AV	269.00	100	Horizontal	N/A
4	7372.500	53.12	0.66	74.0	20.88	Peak	53.00	300	Horizontal	Pass
4**	7372.500	43.49	0.66	54.0	10.51	AV	53.00	300	Horizontal	Pass
5	11783.375	52.33	-0.16	74.0	21.67	Peak	360.00	200	Horizontal	Pass
5**	11783.375	43.16	-0.16	54.0	10.84	AV	360.00	200	Horizontal	Pass
6	16186.912	53.44	1.90	74.0	20.56	Peak	313.00	300	Horizontal	Pass
6**	16186.912	44.27	1.90	54.0	9.73	AV	313.00	300	Horizontal	Pass

11ac20, U-NII-1, 1 GHz to 18 GHz, High Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1497.200	40.85	-16.74	74.0	33.15	Peak	128.00	300	Vertical	Pass
1**	1497.200	30.52	-16.74	54.0	23.48	AV	128.00	300	Vertical	Pass
2	4267.000	46.71	-4.70	74.0	27.29	Peak	215.00	200	Vertical	Pass
2**	4267.000	37.99	-4.70	54.0	16.01	AV	215.00	200	Vertical	Pass
3	5242.000	89.13	-3.15	--	--	Peak	58.00	150	Vertical	N/A
3**	5242.000	82.67	-3.15	--	--	AV	58.00	150	Vertical	N/A
4	7735.500	53.18	-0.02	74.0	20.82	Peak	315.00	200	Vertical	Pass
4**	7735.500	44.16	-0.02	54.0	9.84	AV	315.00	200	Vertical	Pass
5	11785.987	52.58	-0.16	74.0	21.42	Peak	251.00	150	Vertical	Pass
5**	11785.987	43.84	-0.16	54.0	10.16	AV	251.00	150	Vertical	Pass
6	16177.724	53.66	1.96	74.0	20.34	Peak	154.00	100	Vertical	Pass
6**	16177.724	45.16	1.96	54.0	8.84	AV	154.00	100	Vertical	Pass

11ac40, U-NII-1, 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	1438.400	42.61	-17.08	74.0	31.39	Peak	86.00	100	Horizontal	Pass
1**	1438.400	29.33	-17.08	54.0	24.67	AV	86.00	100	Horizontal	Pass
2	4163.750	47.37	-5.52	74.0	26.63	Peak	123.00	300	Horizontal	Pass
2**	4163.750	37.02	-5.52	54.0	16.98	AV	123.00	300	Horizontal	Pass
3	5191.500	96.36	-2.46	--	--	Peak	218.00	150	Horizontal	N/A
3**	5191.500	89.19	-2.46	--	--	AV	218.00	150	Horizontal	N/A
4	7471.750	52.60	0.41	74.0	21.40	Peak	317.00	150	Horizontal	Pass
4**	7471.750	42.97	0.41	54.0	11.03	AV	317.00	150	Horizontal	Pass
5	11788.125	52.98	-0.16	74.0	21.02	Peak	0.00	200	Horizontal	Pass
5**	11788.125	43.52	-0.16	54.0	10.48	AV	0.00	200	Horizontal	Pass
6	16162.500	53.70	2.07	74.0	20.30	Peak	193.00	300	Horizontal	Pass
6**	16162.500	45.33	2.07	54.0	8.67	AV	193.00	300	Horizontal	Pass

11ac40, U-NII-1, 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	1493.800	40.51	-17.16	74.0	33.49	Peak	357.00	300	Vertical	Pass
1**	1493.800	28.18	-17.16	54.0	25.82	AV	357.00	300	Vertical	Pass
2	4077.000	47.11	-5.63	74.0	26.89	Peak	189.00	400	Vertical	Pass
2**	4077.000	37.52	-5.63	54.0	16.48	AV	189.00	400	Vertical	Pass
3	5185.750	87.57	-2.41	--	--	Peak	67.00	150	Vertical	N/A
3**	5185.750	79.60	-2.41	--	--	AV	67.00	150	Vertical	N/A
4	7733.250	52.64	0.60	74.0	21.36	Peak	142.00	400	Vertical	Pass
4**	7733.250	45.02	0.60	54.0	8.98	AV	142.00	400	Vertical	Pass
5	11796.675	52.38	-0.15	74.0	21.62	Peak	163.00	150	Vertical	Pass
5**	11796.675	43.43	-0.15	54.0	10.57	AV	163.00	150	Vertical	Pass
6	16184.287	54.12	1.92	74.0	19.88	Peak	254.00	400	Vertical	Pass
6**	16184.287	44.13	1.92	54.0	9.87	AV	254.00	400	Vertical	Pass

11ac40, U-NII-1, 1 GHz to 18 GHz, High Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1438.700	43.03	-16.96	74.0	30.97	Peak	69.00	200	Horizontal	Pass
1**	1438.700	31.58	-16.96	54.0	22.42	AV	69.00	200	Horizontal	Pass
2	3712.000	47.38	-6.38	74.0	26.62	Peak	341.00	200	Horizontal	Pass
2**	3712.000	36.30	-6.38	54.0	17.70	AV	341.00	200	Horizontal	Pass
3	5233.000	97.94	-2.98	--	--	Peak	266.00	200	Horizontal	N/A
3**	5233.000	90.32	-2.98	--	--	AV	266.00	200	Horizontal	N/A
4	7725.500	52.96	0.45	74.0	21.04	Peak	120.00	100	Horizontal	Pass
4**	7725.500	43.41	0.45	54.0	10.59	AV	120.00	100	Horizontal	Pass
5	12406.813	52.86	1.10	74.0	21.14	Peak	21.00	100	Horizontal	Pass
5**	12406.813	42.75	1.10	54.0	11.25	AV	21.00	100	Horizontal	Pass
6	16178.513	54.30	1.96	74.0	19.70	Peak	0.00	300	Horizontal	Pass
6**	16178.513	44.64	1.96	54.0	9.36	AV	0.00	300	Horizontal	Pass

11ac40, U-NII-1, 1 GHz to 18 GHz, High Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1441.000	39.88	-16.63	74.0	34.12	Peak	230.00	100	Vertical	Pass
1**	1441.000	30.23	-16.63	54.0	23.77	AV	230.00	100	Vertical	Pass
2	4363.000	46.89	-4.96	74.0	27.11	Peak	288.00	200	Vertical	Pass
2**	4363.000	37.77	-4.96	54.0	16.23	AV	288.00	200	Vertical	Pass
3	5234.500	88.04	-2.77	--	--	Peak	65.00	150	Vertical	N/A
3**	5234.500	80.19	-2.77	--	--	AV	65.00	150	Vertical	N/A
4	7369.250	52.89	0.59	74.0	21.11	Peak	0.00	200	Vertical	Pass
4**	7369.250	43.46	0.59	54.0	10.54	AV	0.00	200	Vertical	Pass
5	11770.550	53.04	-0.18	74.0	20.96	Peak	338.00	100	Vertical	Pass
5**	11770.550	43.24	-0.18	54.0	10.76	AV	338.00	100	Vertical	Pass
6	16173.525	53.82	1.99	74.0	20.18	Peak	80.00	200	Vertical	Pass
6**	16173.525	44.69	1.99	54.0	9.31	AV	80.00	200	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1441.800	43.57	-17.03	74.0	30.43	Peak	71.00	300	Horizontal	Pass
1**	1441.800	30.92	-17.03	54.0	23.08	AV	71.00	300	Horizontal	Pass
2	4309.250	47.08	-4.93	74.0	26.92	Peak	41.00	100	Horizontal	Pass
2**	4309.250	37.54	-4.93	54.0	16.46	AV	41.00	100	Horizontal	Pass
3	5207.750	93.54	-2.15	--	--	Peak	264.00	200	Horizontal	N/A
3**	5207.750	86.45	-2.15	--	--	AV	264.00	200	Horizontal	N/A
4	7639.000	53.33	0.57	74.0	20.67	Peak	290.00	400	Horizontal	Pass
4**	7639.000	43.47	0.57	54.0	10.53	AV	290.00	400	Horizontal	Pass
5	11779.100	52.71	-0.17	74.0	21.29	Peak	118.00	150	Horizontal	Pass
5**	11779.100	43.04	-0.17	54.0	10.96	AV	118.00	150	Horizontal	Pass
6	16148.062	53.81	2.14	74.0	20.19	Peak	94.00	400	Horizontal	Pass
6**	16148.062	45.14	2.14	54.0	8.86	AV	94.00	400	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1495.800	40.00	-17.05	74.0	34.00	Peak	132.00	100	Vertical	Pass
1**	1495.800	30.64	-17.05	54.0	23.36	AV	132.00	100	Vertical	Pass
2	4395.500	47.06	-4.97	74.0	26.94	Peak	40.00	300	Vertical	Pass
2**	4395.500	38.00	-4.97	54.0	16.00	AV	40.00	300	Vertical	Pass
3	5186.250	84.40	-2.42	--	--	Peak	65.00	100	Vertical	N/A
3**	5186.250	74.62	-2.42	--	--	AV	65.00	100	Vertical	N/A
4	7647.500	53.01	0.94	74.0	20.99	Peak	165.00	300	Vertical	Pass
4**	7647.500	43.92	0.94	54.0	10.08	AV	165.00	300	Vertical	Pass
5	11775.537	52.34	-0.17	74.0	21.66	Peak	275.00	100	Vertical	Pass
5**	11775.537	43.15	-0.17	54.0	10.85	AV	275.00	100	Vertical	Pass
6	16179.826	53.33	1.95	74.0	20.67	Peak	2.00	200	Vertical	Pass
6**	16179.826	45.20	1.95	54.0	8.80	AV	2.00	200	Vertical	Pass

11x20(SU), U-NII-1, 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	1439.800	45.20	-17.15	74.0	28.80	Peak	88.00	400	Horizontal	Pass
1**	1439.800	32.62	-17.15	54.0	21.38	AV	88.00	400	Horizontal	Pass
2	4192.250	47.00	-5.36	74.0	27.00	Peak	0.00	200	Horizontal	Pass
2**	4192.250	37.47	-5.36	54.0	16.53	AV	0.00	200	Horizontal	Pass
3	5180.250	99.87	-2.48	--	--	Peak	271.00	200	Horizontal	N/A
3**	5180.250	91.69	-2.48	--	--	AV	271.00	200	Horizontal	N/A
4	7746.750	53.05	0.22	74.0	20.95	Peak	56.00	300	Horizontal	Pass
4**	7746.750	44.11	0.22	54.0	9.89	AV	56.00	300	Horizontal	Pass
5	11802.138	52.33	-0.17	74.0	21.67	Peak	21.00	100	Horizontal	Pass
5**	11802.138	43.17	-0.17	54.0	10.83	AV	21.00	100	Horizontal	Pass
6	16167.224	53.96	2.04	74.0	20.04	Peak	142.00	200	Horizontal	Pass
6**	16167.224	44.64	2.04	54.0	9.36	AV	142.00	200	Horizontal	Pass

11x20(SU), U-NII-1, 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	1438.700	40.03	-16.96	74.0	33.97	Peak	275.00	200	Vertical	Pass
1**	1438.700	29.30	-16.96	54.0	24.70	AV	275.00	200	Vertical	Pass
2	4247.000	47.19	-4.43	74.0	26.81	Peak	63.00	400	Vertical	Pass
2**	4247.000	37.09	-4.43	54.0	16.91	AV	63.00	400	Vertical	Pass
3	5178.250	90.89	-2.57	--	--	Peak	63.00	200	Vertical	N/A
3**	5178.250	82.32	-2.57	--	--	AV	63.00	200	Vertical	N/A
4	7372.250	52.83	0.63	74.0	21.17	Peak	116.00	400	Vertical	Pass
4**	7372.250	43.45	0.63	54.0	10.55	AV	116.00	400	Vertical	Pass
5	11808.075	52.45	-0.24	74.0	21.55	Peak	314.00	200	Vertical	Pass
5**	11808.075	42.90	-0.24	54.0	11.10	AV	314.00	200	Vertical	Pass
6	16174.312	53.73	1.99	74.0	20.27	Peak	0.00	300	Vertical	Pass
6**	16174.312	44.76	1.99	54.0	9.24	AV	0.00	300	Vertical	Pass

11x20(SU), U-NII-1, 1 GHz to 18 GHz, Middle Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1440.600	46.91	-16.95	74.0	27.09	Peak	77.00	400	Horizontal	Pass
1**	1440.600	30.63	-16.95	54.0	23.37	AV	77.00	400	Horizontal	Pass
2	4111.500	46.97	-5.99	74.0	27.03	Peak	102.00	100	Horizontal	Pass
2**	4111.500	37.50	-5.99	54.0	16.50	AV	102.00	100	Horizontal	Pass
3	5221.750	99.88	-3.08	--	--	Peak	267.00	150	Horizontal	N/A
3**	5221.750	92.51	-3.08	--	--	AV	267.00	150	Horizontal	N/A
4	7656.500	53.06	1.19	74.0	20.94	Peak	244.00	400	Horizontal	Pass
4**	7656.500	43.34	1.19	54.0	10.66	AV	244.00	400	Horizontal	Pass
5	12346.488	53.06	0.83	74.0	20.94	Peak	218.00	150	Horizontal	Pass
5**	12346.488	43.30	0.83	54.0	10.70	AV	218.00	150	Horizontal	Pass
6	16127.588	53.87	1.97	74.0	20.13	Peak	43.00	400	Horizontal	Pass
6**	16127.588	43.55	1.97	54.0	10.45	AV	43.00	400	Horizontal	Pass

11x20(SU), U-NII-1, 1 GHz to 18 GHz, Middle Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1496.500	39.88	-16.85	74.0	34.12	Peak	151.00	300	Vertical	Pass
1**	1496.500	31.52	-16.85	54.0	22.48	AV	151.00	300	Vertical	Pass
2	4357.500	46.82	-4.86	74.0	27.18	Peak	0.00	100	Vertical	Pass
2**	4357.500	37.93	-4.86	54.0	16.07	AV	0.00	100	Vertical	Pass
3	5221.000	91.59	-2.98	--	--	Peak	72.00	200	Vertical	N/A
3**	5221.000	81.91	-2.98	--	--	AV	72.00	200	Vertical	N/A
4	7740.500	53.63	0.65	74.0	20.37	Peak	279.00	400	Vertical	Pass
4**	7740.500	44.47	0.65	54.0	9.53	AV	279.00	400	Vertical	Pass
5	11800.950	52.30	-0.16	74.0	21.70	Peak	84.00	150	Vertical	Pass
5**	11800.950	44.29	-0.16	54.0	9.71	AV	84.00	150	Vertical	Pass
6	16167.224	54.04	2.04	74.0	19.96	Peak	80.00	300	Vertical	Pass
6**	16167.224	45.74	2.04	54.0	8.26	AV	80.00	300	Vertical	Pass

11x20(SU), U-NII-1, 1 GHz to 18 GHz, High Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1441.500	43.32	-16.90	74.0	30.68	Peak	76.00	200	Horizontal	Pass
1**	1441.500	30.86	-16.90	54.0	23.14	AV	76.00	200	Horizontal	Pass
2	4286.500	46.93	-4.62	74.0	27.07	Peak	29.00	400	Horizontal	Pass
2**	4286.500	37.49	-4.62	54.0	16.51	AV	29.00	400	Horizontal	Pass
3	5238.250	99.62	-3.16	--	--	Peak	217.00	200	Horizontal	N/A
3**	5238.250	91.33	-3.16	--	--	AV	217.00	200	Horizontal	N/A
4	7360.750	53.68	0.78	74.0	20.32	Peak	342.00	300	Horizontal	Pass
4**	7360.750	45.26	0.78	54.0	8.74	AV	342.00	300	Horizontal	Pass
5	12350.287	52.86	0.85	74.0	21.14	Peak	60.00	200	Horizontal	Pass
5**	12350.287	42.96	0.85	54.0	11.04	AV	60.00	200	Horizontal	Pass
6	16153.050	54.52	2.13	74.0	19.48	Peak	341.00	300	Horizontal	Pass
6**	16153.050	46.57	2.13	54.0	7.43	AV	341.00	300	Horizontal	Pass

11x20(SU), U-NII-1, 1 GHz to 18 GHz, High Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1496.800	40.06	-16.81	74.0	33.94	Peak	125.00	400	Vertical	Pass
1**	1496.800	29.07	-16.81	54.0	24.93	AV	125.00	400	Vertical	Pass
2	4381.500	47.30	-5.03	74.0	26.70	Peak	7.00	100	Vertical	Pass
2**	4381.500	38.27	-5.03	54.0	15.73	AV	7.00	100	Vertical	Pass
3	5238.750	90.26	-2.91	--	--	Peak	80.00	150	Vertical	N/A
3**	5238.750	81.97	-2.91	--	--	AV	80.00	150	Vertical	N/A
4	7743.000	53.43	0.24	74.0	20.57	Peak	217.00	200	Vertical	Pass
4**	7743.000	44.10	0.24	54.0	9.90	AV	217.00	200	Vertical	Pass
5	12173.587	52.18	0.18	74.0	21.82	Peak	18.00	100	Vertical	Pass
5**	12173.587	42.90	0.18	54.0	11.10	AV	18.00	100	Vertical	Pass
6	16174.838	53.38	1.98	74.0	20.62	Peak	182.00	400	Vertical	Pass
6**	16174.838	44.53	1.98	54.0	9.47	AV	182.00	400	Vertical	Pass

11ax40(SU), U-NII-1, 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	1438.600	42.79	-17.00	74.0	31.21	Peak	77.00	300	Horizontal	Pass
1**	1438.600	31.57	-17.00	54.0	22.43	AV	77.00	300	Horizontal	Pass
2	4255.750	47.22	-3.94	74.0	26.78	Peak	305.00	300	Horizontal	Pass
2**	4255.750	37.90	-3.94	54.0	16.10	AV	305.00	300	Horizontal	Pass
3	5189.500	97.20	-2.70	--	--	Peak	79.00	200	Horizontal	N/A
3**	5189.500	88.97	-2.70	--	--	AV	79.00	200	Horizontal	N/A
4	7735.250	53.13	-0.10	74.0	20.87	Peak	223.00	200	Horizontal	Pass
4**	7735.250	43.40	-0.10	54.0	10.60	AV	223.00	200	Horizontal	Pass
5	12279.276	52.26	0.78	74.0	21.74	Peak	237.00	100	Horizontal	Pass
5**	12279.276	43.04	0.78	54.0	10.96	AV	237.00	100	Horizontal	Pass
6	16183.763	53.25	1.92	74.0	20.75	Peak	176.00	400	Horizontal	Pass
6**	16183.763	44.90	1.92	54.0	9.10	AV	176.00	400	Horizontal	Pass

11ax40(SU), U-NII-1, 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	1439.800	41.08	-17.15	74.0	32.92	Peak	283.00	200	Vertical	Pass
1**	1439.800	29.62	-17.15	54.0	24.38	AV	283.00	200	Vertical	Pass
2	4245.500	46.45	-4.46	74.0	27.55	Peak	0.00	400	Vertical	Pass
2**	4245.500	37.91	-4.46	54.0	16.09	AV	0.00	400	Vertical	Pass
3	5191.250	89.47	-2.50	--	--	Peak	63.00	150	Vertical	N/A
3**	5191.250	81.07	-2.50	--	--	AV	63.00	150	Vertical	N/A
4	7738.750	52.76	0.29	74.0	21.24	Peak	0.00	100	Vertical	Pass
4**	7738.750	44.99	0.29	54.0	9.01	AV	0.00	100	Vertical	Pass
5	11785.275	52.83	-0.16	74.0	21.17	Peak	89.00	200	Vertical	Pass
5**	11785.275	43.72	-0.16	54.0	10.28	AV	89.00	200	Vertical	Pass
6	16022.325	53.85	1.18	74.0	20.15	Peak	99.00	200	Vertical	Pass
6**	16022.325	43.81	1.18	54.0	10.19	AV	99.00	200	Vertical	Pass

11x40(SU), U-NII-1, 1 GHz to 18 GHz, High Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1441.400	42.47	-16.85	74.0	31.53	Peak	73.00	400	Horizontal	Pass
1**	1441.400	30.82	-16.85	54.0	23.18	AV	73.00	400	Horizontal	Pass
2	4146.000	47.20	-5.86	74.0	26.80	Peak	1.00	400	Horizontal	Pass
2**	4146.000	36.34	-5.86	54.0	17.66	AV	1.00	400	Horizontal	Pass
3	5233.250	97.65	-2.92	--	--	Peak	293.00	150	Horizontal	N/A
3**	5233.250	90.13	-2.92	--	--	AV	293.00	150	Horizontal	N/A
4	7316.500	53.55	0.61	74.0	20.45	Peak	133.00	300	Horizontal	Pass
4**	7316.500	43.41	0.61	54.0	10.59	AV	133.00	300	Horizontal	Pass
5	11796.912	52.39	-0.15	74.0	21.61	Peak	75.00	150	Horizontal	Pass
5**	11796.912	43.61	-0.15	54.0	10.39	AV	75.00	150	Horizontal	Pass
6	16171.950	53.65	2.00	74.0	20.35	Peak	9.00	100	Horizontal	Pass
6**	16171.950	44.66	2.00	54.0	9.34	AV	9.00	100	Horizontal	Pass

11x40(SU), U-NII-1, 1 GHz to 18 GHz, High Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1494.600	41.54	-17.35	74.0	32.46	Peak	117.00	100	Vertical	Pass
1**	1494.600	31.52	-17.35	54.0	22.48	AV	117.00	100	Vertical	Pass
2	4385.500	47.07	-5.20	74.0	26.93	Peak	295.00	300	Vertical	Pass
2**	4385.500	37.40	-5.20	54.0	16.60	AV	295.00	300	Vertical	Pass
3	5231.000	87.63	-3.02	--	--	Peak	89.00	100	Vertical	N/A
3**	5231.000	80.34	-3.02	--	--	AV	89.00	100	Vertical	N/A
4	7485.750	53.09	1.39	74.0	20.91	Peak	0.00	200	Vertical	Pass
4**	7485.750	44.21	1.39	54.0	9.79	AV	0.00	200	Vertical	Pass
5	11785.513	52.79	-0.16	74.0	21.21	Peak	57.00	100	Vertical	Pass
5**	11785.513	43.06	-0.16	54.0	10.94	AV	57.00	100	Vertical	Pass
6	16168.275	54.57	2.03	74.0	19.43	Peak	203.00	400	Vertical	Pass
6**	16168.275	45.13	2.03	54.0	8.87	AV	203.00	400	Vertical	Pass

11x80(SU), U-NII-1, 1 GHz to 18 GHz, Middle Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1441.500	42.85	-16.90	74.0	31.15	Peak	76.00	400	Horizontal	Pass
1**	1441.500	31.03	-16.90	54.0	22.97	AV	76.00	400	Horizontal	Pass
2	4232.750	47.47	-5.13	74.0	26.53	Peak	92.00	300	Horizontal	Pass
2**	4232.750	36.94	-5.13	54.0	17.06	AV	92.00	300	Horizontal	Pass
3	5212.500	95.46	-2.54	--	--	Peak	261.00	200	Horizontal	N/A
3**	5212.500	86.08	-2.54	--	--	AV	261.00	200	Horizontal	N/A
4	7740.500	53.77	0.65	74.0	20.23	Peak	72.00	100	Horizontal	Pass
4**	7740.500	44.28	0.65	54.0	9.72	AV	72.00	100	Horizontal	Pass
5	11778.625	52.43	-0.17	74.0	21.57	Peak	205.00	200	Horizontal	Pass
5**	11778.625	43.11	-0.17	54.0	10.89	AV	205.00	200	Horizontal	Pass
6	16137.037	53.79	2.05	74.0	20.21	Peak	360.00	300	Horizontal	Pass
6**	16137.037	43.97	2.05	54.0	10.03	AV	360.00	300	Horizontal	Pass

11x80(SU), U-NII-1, 1 GHz to 18 GHz, Middle Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1443.700	40.01	-16.88	74.0	33.99	Peak	260.00	300	Vertical	Pass
1**	1443.700	29.58	-16.88	54.0	24.42	AV	260.00	300	Vertical	Pass
2	4121.500	47.77	-5.70	74.0	26.23	Peak	80.00	400	Vertical	Pass
2**	4121.500	37.15	-5.70	54.0	16.85	AV	80.00	400	Vertical	Pass
3	5193.500	84.53	-2.67	--	--	Peak	80.00	100	Vertical	N/A
3**	5193.500	74.44	-2.67	--	--	AV	80.00	100	Vertical	N/A
4	7485.750	52.93	1.39	74.0	21.07	Peak	60.00	400	Vertical	Pass
4**	7485.750	44.21	1.39	54.0	9.79	AV	60.00	400	Vertical	Pass
5	12286.638	52.83	0.70	74.0	21.17	Peak	210.00	100	Vertical	Pass
5**	12286.638	43.43	0.70	54.0	10.57	AV	210.00	100	Vertical	Pass
6	16174.050	53.61	1.99	74.0	20.39	Peak	239.00	400	Vertical	Pass
6**	16174.050	44.73	1.99	54.0	9.27	AV	239.00	400	Vertical	Pass

11a, U-NII-3, 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	1436.900	40.48	-17.01	74.0	33.52	Peak	231.00	200	Horizontal	Pass
1**	1436.900	29.36	-17.01	54.0	24.64	AV	231.00	200	Horizontal	Pass
2	4259.250	46.64	-4.42	74.0	27.36	Peak	360.00	300	Horizontal	Pass
2**	4259.250	37.79	-4.42	54.0	16.21	AV	360.00	300	Horizontal	Pass
3	5748.250	108.51	-2.15	--	--	Peak	317.00	150	Horizontal	N/A
3**	5748.250	101.56	-2.15	--	--	AV	317.00	150	Horizontal	N/A
4	7493.000	53.30	1.10	74.0	20.70	Peak	156.00	200	Horizontal	Pass
4**	7493.000	43.31	1.10	54.0	10.69	AV	156.00	200	Horizontal	Pass
5	11790.026	52.21	-0.16	74.0	21.79	Peak	235.00	200	Horizontal	Pass
5**	11790.026	43.47	-0.16	54.0	10.53	AV	235.00	200	Horizontal	Pass
6	16173.787	52.88	1.99	74.0	21.12	Peak	133.00	200	Horizontal	Pass
6**	16173.787	44.42	1.99	54.0	9.58	AV	133.00	200	Horizontal	Pass

11a, U-NII-3, 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	1438.400	40.81	-17.08	74.0	33.19	Peak	135.00	400	Vertical	Pass
1**	1438.400	29.08	-17.08	54.0	24.92	AV	135.00	400	Vertical	Pass
2	3753.750	46.45	-6.48	74.0	27.55	Peak	156.00	300	Vertical	Pass
2**	3753.750	36.14	-6.48	54.0	17.86	AV	156.00	300	Vertical	Pass
3	5742.750	98.95	-2.08	--	--	Peak	95.00	150	Vertical	N/A
3**	5742.750	90.95	-2.08	--	--	AV	95.00	150	Vertical	N/A
4	7487.000	53.08	1.36	74.0	20.92	Peak	0.00	400	Vertical	Pass
4**	7487.000	43.91	1.36	54.0	10.09	AV	0.00	400	Vertical	Pass
5	12189.025	52.51	0.31	74.0	21.49	Peak	67.00	100	Vertical	Pass
5**	12189.025	42.86	0.31	54.0	11.14	AV	67.00	100	Vertical	Pass
6	16158.037	53.55	2.10	74.0	20.45	Peak	279.00	300	Vertical	Pass
6**	16158.037	44.33	2.10	54.0	9.67	AV	279.00	300	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1439.900	44.93	-17.12	74.0	29.07	Peak	37.00	200	Horizontal	Pass
1**	1439.900	30.91	-17.12	54.0	23.09	AV	37.00	200	Horizontal	Pass
2	4310.500	46.69	-5.67	74.0	27.31	Peak	359.00	100	Horizontal	Pass
2**	4310.500	37.35	-5.67	54.0	16.65	AV	359.00	100	Horizontal	Pass
3	5791.000	109.28	-2.35	--	--	Peak	298.00	100	Horizontal	N/A
3**	5791.000	102.76	-2.35	--	--	AV	298.00	100	Horizontal	N/A
4	7652.000	52.70	0.87	74.0	21.30	Peak	55.00	200	Horizontal	Pass
4**	7652.000	43.41	0.87	54.0	10.59	AV	55.00	200	Horizontal	Pass
5	11563.688	53.93	-1.07	74.0	20.07	Peak	321.00	100	Horizontal	Pass
5**	11563.688	44.88	-1.07	54.0	9.12	AV	321.00	100	Horizontal	Pass
6	16182.450	53.15	1.93	74.0	20.85	Peak	240.00	200	Horizontal	Pass
6**	16182.450	44.92	1.93	54.0	9.08	AV	240.00	200	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1438.900	44.51	-16.89	74.0	29.49	Peak	193.00	200	Vertical	Pass
1**	1438.900	30.14	-16.89	54.0	23.86	AV	193.00	200	Vertical	Pass
2	4388.500	46.98	-5.33	74.0	27.02	Peak	56.00	200	Vertical	Pass
2**	4388.500	37.11	-5.33	54.0	16.89	AV	56.00	200	Vertical	Pass
3	5788.250	101.54	-2.33	--	--	Peak	117.00	150	Vertical	N/A
3**	5788.250	94.92	-2.33	--	--	AV	117.00	150	Vertical	N/A
4	7299.750	53.01	-0.22	74.0	20.99	Peak	56.00	100	Vertical	Pass
4**	7299.750	43.33	-0.22	54.0	10.67	AV	56.00	100	Vertical	Pass
5	11570.338	54.51	-0.98	74.0	19.49	Peak	360.00	100	Vertical	Pass
5**	11570.338	47.70	-0.98	54.0	6.30	AV	360.00	100	Vertical	Pass
6	16172.213	53.68	2.00	74.0	20.32	Peak	208.00	300	Vertical	Pass
6**	16172.213	44.89	2.00	54.0	9.11	AV	208.00	300	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1439.000	44.52	-16.92	74.0	29.48	Peak	40.00	200	Horizontal	Pass
1**	1439.000	31.16	-16.92	54.0	22.84	AV	40.00	200	Horizontal	Pass
2	4363.750	46.84	-4.91	74.0	27.16	Peak	75.00	400	Horizontal	Pass
2**	4363.750	37.71	-4.91	54.0	16.29	AV	75.00	400	Horizontal	Pass
3	5827.750	109.37	-2.57	--	--	Peak	298.00	200	Horizontal	N/A
3**	5827.750	102.36	-2.57	--	--	AV	298.00	200	Horizontal	N/A
4	7323.750	52.75	0.09	74.0	21.25	Peak	237.00	300	Horizontal	Pass
4**	7323.750	43.18	0.09	54.0	10.82	AV	237.00	300	Horizontal	Pass
5	11652.275	55.18	-1.31	74.0	18.82	Peak	329.00	150	Horizontal	Pass
5**	11652.275	44.98	-1.31	54.0	9.02	AV	329.00	150	Horizontal	Pass
6	16162.763	53.38	2.07	74.0	20.62	Peak	11.00	400	Horizontal	Pass
6**	16162.763	44.70	2.07	54.0	9.30	AV	11.00	400	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1435.900	41.01	-17.14	74.0	32.99	Peak	156.00	300	Vertical	Pass
1**	1435.900	29.93	-17.14	54.0	24.07	AV	156.00	300	Vertical	Pass
2	4358.250	47.21	-4.57	74.0	26.79	Peak	360.00	400	Vertical	Pass
2**	4358.250	37.19	-4.57	54.0	16.81	AV	360.00	400	Vertical	Pass
3	5822.500	101.79	-2.53	--	--	Peak	116.00	100	Vertical	N/A
3**	5822.500	92.92	-2.53	--	--	AV	116.00	100	Vertical	N/A
4	7714.750	52.74	1.62	74.0	21.26	Peak	238.00	400	Vertical	Pass
4**	7714.750	43.30	1.62	54.0	10.70	AV	238.00	400	Vertical	Pass
5	12395.888	52.35	1.09	74.0	21.65	Peak	358.00	150	Vertical	Pass
5**	12395.888	43.16	1.09	54.0	10.84	AV	358.00	150	Vertical	Pass
6	16159.612	53.38	2.09	74.0	20.62	Peak	293.00	100	Vertical	Pass
6**	16159.612	44.73	2.09	54.0	9.27	AV	293.00	100	Vertical	Pass

11n20, U-NII-3, 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	1436.800	44.74	-16.96	74.0	29.26	Peak	37.00	200	Horizontal	Pass
1**	1436.800	31.45	-16.96	54.0	22.55	AV	37.00	200	Horizontal	Pass
2	3986.250	46.44	-5.89	74.0	27.56	Peak	305.00	200	Horizontal	Pass
2**	3986.250	35.59	-5.89	54.0	18.41	AV	305.00	200	Horizontal	Pass
3	5752.000	108.95	-1.84	--	--	Peak	305.00	200	Horizontal	N/A
3**	5752.000	101.93	-1.84	--	--	AV	305.00	200	Horizontal	N/A
4	7710.500	52.80	1.96	74.0	21.20	Peak	60.00	200	Horizontal	Pass
4**	7710.500	43.27	1.96	54.0	10.73	AV	60.00	200	Horizontal	Pass
5	11788.363	52.61	-0.16	74.0	21.39	Peak	234.00	100	Horizontal	Pass
5**	11788.363	43.62	-0.16	54.0	10.38	AV	234.00	100	Horizontal	Pass
6	16189.799	53.61	1.88	74.0	20.39	Peak	80.00	200	Horizontal	Pass
6**	16189.799	43.86	1.88	54.0	10.14	AV	80.00	200	Horizontal	Pass

11n20, U-NII-3, 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	1441.200	42.00	-16.74	74.0	32.00	Peak	179.00	300	Vertical	Pass
1**	1441.200	29.73	-16.74	54.0	24.27	AV	179.00	300	Vertical	Pass
2	4388.250	46.78	-4.99	74.0	27.22	Peak	36.00	100	Vertical	Pass
2**	4388.250	37.89	-4.99	54.0	16.11	AV	36.00	100	Vertical	Pass
3	5743.000	99.11	-2.06	--	--	Peak	340.00	200	Vertical	N/A
3**	5743.000	91.20	-2.06	--	--	AV	340.00	200	Vertical	N/A
4	7356.250	52.82	0.53	74.0	21.18	Peak	16.00	300	Vertical	Pass
4**	7356.250	43.34	0.53	54.0	10.66	AV	16.00	300	Vertical	Pass
5	12396.125	52.39	1.09	74.0	21.61	Peak	227.00	200	Vertical	Pass
5**	12396.125	42.86	1.09	54.0	11.14	AV	227.00	200	Vertical	Pass
6	16170.900	53.12	2.01	74.0	20.88	Peak	57.00	300	Vertical	Pass
6**	16170.900	44.52	2.01	54.0	9.48	AV	57.00	300	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1437.800	44.69	-17.18	74.0	29.31	Peak	42.00	200	Horizontal	Pass
1**	1437.800	32.11	-17.18	54.0	21.89	AV	42.00	200	Horizontal	Pass
2	4245.750	46.76	-4.50	74.0	27.24	Peak	111.00	300	Horizontal	Pass
2**	4245.750	38.27	-4.50	54.0	15.73	AV	111.00	300	Horizontal	Pass
3	5792.750	109.16	-2.18	--	--	Peak	281.00	200	Horizontal	N/A
3**	5792.750	102.46	-2.18	--	--	AV	281.00	200	Horizontal	N/A
4	7732.500	53.14	0.25	74.0	20.86	Peak	0.00	300	Horizontal	Pass
4**	7732.500	43.25	0.25	54.0	10.75	AV	0.00	300	Horizontal	Pass
5	11563.688	53.81	-1.07	74.0	20.19	Peak	319.00	100	Horizontal	Pass
5**	11563.688	43.38	-1.07	54.0	10.62	AV	319.00	100	Horizontal	Pass
6	16159.612	53.47	2.09	74.0	20.53	Peak	48.00	100	Horizontal	Pass
6**	16159.612	44.45	2.09	54.0	9.55	AV	48.00	100	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1442.300	41.98	-16.70	74.0	32.02	Peak	188.00	100	Vertical	Pass
1**	1442.300	30.41	-16.70	54.0	23.59	AV	188.00	100	Vertical	Pass
2	4292.250	46.55	-4.60	74.0	27.45	Peak	130.00	300	Vertical	Pass
2**	4292.250	37.93	-4.60	54.0	16.07	AV	130.00	300	Vertical	Pass
3	5787.000	99.63	-2.45	--	--	Peak	301.00	150	Vertical	N/A
3**	5787.000	92.17	-2.45	--	--	AV	301.00	150	Vertical	N/A
4	7721.250	52.77	0.92	74.0	21.23	Peak	108.00	200	Vertical	Pass
4**	7721.250	43.01	0.92	54.0	10.99	AV	108.00	200	Vertical	Pass
5	11562.263	54.00	-1.09	74.0	20.00	Peak	356.00	100	Vertical	Pass
5**	11562.263	43.57	-1.09	54.0	10.43	AV	356.00	100	Vertical	Pass
6	16156.463	53.79	2.11	74.0	20.21	Peak	50.00	100	Vertical	Pass
6**	16156.463	44.94	2.11	54.0	9.06	AV	50.00	100	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1436.400	44.83	-17.11	74.0	29.17	Peak	35.00	300	Horizontal	Pass
1**	1436.400	30.29	-17.11	54.0	23.71	AV	35.00	300	Horizontal	Pass
2	4169.750	46.77	-5.46	74.0	27.23	Peak	91.00	400	Horizontal	Pass
2**	4169.750	36.90	-5.46	54.0	17.10	AV	91.00	400	Horizontal	Pass
3	5821.500	108.50	-2.55	--	--	Peak	300.00	100	Horizontal	N/A
3**	5821.500	100.76	-2.55	--	--	AV	300.00	100	Horizontal	N/A
4	7627.000	53.43	0.36	74.0	20.57	Peak	19.00	300	Horizontal	Pass
4**	7627.000	43.38	0.36	54.0	10.62	AV	19.00	300	Horizontal	Pass
5	11652.275	54.38	-1.31	74.0	19.62	Peak	324.00	200	Horizontal	Pass
5**	11652.275	44.18	-1.31	54.0	9.82	AV	324.00	200	Horizontal	Pass
6	16158.825	54.17	2.09	74.0	19.83	Peak	307.00	300	Horizontal	Pass
6**	16158.825	45.16	2.09	54.0	8.84	AV	307.00	300	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1437.400	41.60	-17.12	74.0	32.40	Peak	189.00	200	Vertical	Pass
1**	1437.400	28.79	-17.12	54.0	25.21	AV	189.00	200	Vertical	Pass
2	4358.000	46.90	-4.58	74.0	27.10	Peak	159.00	400	Vertical	Pass
2**	4358.000	37.70	-4.58	54.0	16.30	AV	159.00	400	Vertical	Pass
3	5821.000	99.89	-2.44	--	--	Peak	118.00	150	Vertical	N/A
3**	5821.000	90.97	-2.44	--	--	AV	118.00	150	Vertical	N/A
4	7362.750	52.91	0.64	74.0	21.09	Peak	200.00	100	Vertical	Pass
4**	7362.750	43.36	0.64	54.0	10.64	AV	200.00	100	Vertical	Pass
5	12292.100	52.60	0.64	74.0	21.40	Peak	356.00	100	Vertical	Pass
5**	12292.100	42.51	0.64	54.0	11.49	AV	356.00	100	Vertical	Pass
6	16186.387	54.09	1.91	74.0	19.91	Peak	162.00	200	Vertical	Pass
6**	16186.387	44.50	1.91	54.0	9.50	AV	162.00	200	Vertical	Pass

11n40, U-NII-3, 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	1439.400	44.46	-17.03	74.0	29.54	Peak	40.00	100	Horizontal	Pass
1**	1439.400	31.75	-17.03	54.0	22.25	AV	40.00	100	Horizontal	Pass
2	4304.500	47.48	-5.19	74.0	26.52	Peak	179.00	100	Horizontal	Pass
2**	4304.500	37.27	-5.19	54.0	16.73	AV	179.00	100	Horizontal	Pass
3	5747.000	106.30	-2.01	--	--	Peak	318.00	150	Horizontal	N/A
3**	5747.000	98.52	-2.01	--	--	AV	318.00	150	Horizontal	N/A
4	7736.250	53.30	0.44	74.0	20.70	Peak	360.00	200	Horizontal	Pass
4**	7736.250	44.05	0.44	54.0	9.95	AV	360.00	200	Horizontal	Pass
5	11524.975	52.33	-0.92	74.0	21.67	Peak	319.00	200	Horizontal	Pass
5**	11524.975	43.02	-0.92	54.0	10.98	AV	319.00	200	Horizontal	Pass
6	16158.300	54.13	2.10	74.0	19.87	Peak	300.00	300	Horizontal	Pass
6**	16158.300	44.89	2.10	54.0	9.11	AV	300.00	300	Horizontal	Pass

11n40, U-NII-3, 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	1439.800	41.64	-17.15	74.0	32.36	Peak	167.00	400	Vertical	Pass
1**	1439.800	30.17	-17.15	54.0	23.83	AV	167.00	400	Vertical	Pass
2	4246.250	46.84	-4.29	74.0	27.16	Peak	276.00	100	Vertical	Pass
2**	4246.250	36.80	-4.29	54.0	17.20	AV	276.00	100	Vertical	Pass
3	5745.250	96.15	-1.98	--	--	Peak	300.00	150	Vertical	N/A
3**	5745.250	88.26	-1.98	--	--	AV	300.00	150	Vertical	N/A
4	7486.000	53.12	1.41	74.0	20.88	Peak	229.00	400	Vertical	Pass
4**	7486.000	43.69	1.41	54.0	10.31	AV	229.00	400	Vertical	Pass
5	11778.388	52.46	-0.17	74.0	21.54	Peak	117.00	200	Vertical	Pass
5**	11778.388	43.41	-0.17	54.0	10.59	AV	117.00	200	Vertical	Pass
6	16180.612	53.44	1.94	74.0	20.56	Peak	222.00	300	Vertical	Pass
6**	16180.612	44.10	1.94	54.0	9.90	AV	222.00	300	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1441.500	44.51	-16.90	74.0	29.49	Peak	40.00	0	Horizontal	Pass
1**	1441.500	31.48	-16.90	54.0	22.52	AV	40.00	0	Horizontal	Pass
2	4163.000	46.54	-5.44	74.0	27.46	Peak	257.00	400	Horizontal	Pass
2**	4163.000	37.12	-5.44	54.0	16.88	AV	257.00	400	Horizontal	Pass
3	5802.500	107.14	-2.14	--	--	Peak	305.00	100	Horizontal	N/A
3**	5802.500	99.46	-2.14	--	--	AV	305.00	100	Horizontal	N/A
4	7359.250	53.94	0.85	74.0	20.06	Peak	235.00	400	Horizontal	Pass
4**	7359.250	44.17	0.85	54.0	9.83	AV	235.00	400	Horizontal	Pass
5	12344.825	51.92	0.82	74.0	22.08	Peak	173.00	100	Horizontal	Pass
5**	12344.825	42.22	0.82	54.0	11.78	AV	173.00	100	Horizontal	Pass
6	16154.888	53.62	2.12	74.0	20.38	Peak	108.00	300	Horizontal	Pass
6**	16154.888	44.20	2.12	54.0	9.80	AV	108.00	300	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1440.400	41.50	-17.01	74.0	32.50	Peak	185.00	100	Vertical	Pass
1**	1440.400	31.15	-17.01	54.0	22.85	AV	185.00	100	Vertical	Pass
2	4074.750	46.98	-5.82	74.0	27.02	Peak	89.00	100	Vertical	Pass
2**	4074.750	36.65	-5.82	54.0	17.35	AV	89.00	100	Vertical	Pass
3	5802.500	97.58	-2.14	--	--	Peak	65.00	100	Vertical	N/A
3**	5802.500	88.89	-2.14	--	--	AV	65.00	100	Vertical	N/A
4	7740.500	53.22	0.65	74.0	20.78	Peak	360.00	300	Vertical	Pass
4**	7740.500	44.25	0.65	54.0	9.75	AV	360.00	300	Vertical	Pass
5	12521.050	52.00	1.32	74.0	22.00	Peak	6.00	150	Vertical	Pass
5**	12521.050	43.67	1.32	54.0	10.33	AV	6.00	150	Vertical	Pass
6	16164.338	53.37	2.05	74.0	20.63	Peak	166.00	300	Vertical	Pass
6**	16164.338	44.32	2.05	54.0	9.68	AV	166.00	300	Vertical	Pass

11ac20, U-NII-3, 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	1438.900	44.40	-16.89	74.0	29.60	Peak	35.00	200	Horizontal	Pass
1**	1438.900	31.57	-16.89	54.0	22.43	AV	35.00	200	Horizontal	Pass
2	4363.750	46.76	-4.91	74.0	27.24	Peak	179.00	400	Horizontal	Pass
2**	4363.750	37.35	-4.91	54.0	16.65	AV	179.00	400	Horizontal	Pass
3	5740.750	109.22	-2.11	--	--	Peak	301.00	100	Horizontal	N/A
3**	5740.750	101.09	-2.11	--	--	AV	301.00	100	Horizontal	N/A
4	7644.500	53.75	0.68	74.0	20.25	Peak	57.00	300	Horizontal	Pass
4**	7644.500	43.11	0.68	54.0	10.89	AV	57.00	300	Horizontal	Pass
5	11488.162	52.92	-0.79	74.0	21.08	Peak	360.00	100	Horizontal	Pass
5**	11488.162	42.97	-0.79	54.0	11.03	AV	360.00	100	Horizontal	Pass
6	16163.550	53.11	2.06	74.0	20.89	Peak	140.00	400	Horizontal	Pass
6**	16163.550	44.03	2.06	54.0	9.97	AV	140.00	400	Horizontal	Pass

11ac20, U-NII-3, 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	1440.100	41.03	-17.08	74.0	32.97	Peak	181.00	200	Vertical	Pass
1**	1440.100	29.77	-17.08	54.0	24.23	AV	181.00	200	Vertical	Pass
2	4346.500	46.41	-4.79	74.0	27.59	Peak	220.00	400	Vertical	Pass
2**	4346.500	37.03	-4.79	54.0	16.97	AV	220.00	400	Vertical	Pass
3	5743.250	99.49	-2.09	--	--	Peak	311.00	200	Vertical	N/A
3**	5743.250	91.45	-2.09	--	--	AV	311.00	200	Vertical	N/A
4	7733.250	52.55	0.60	74.0	21.45	Peak	267.00	100	Vertical	Pass
4**	7733.250	43.87	0.60	54.0	10.13	AV	267.00	100	Vertical	Pass
5	12370.475	52.08	0.95	74.0	21.92	Peak	173.00	200	Vertical	Pass
5**	12370.475	43.93	0.95	54.0	10.07	AV	173.00	200	Vertical	Pass
6	16172.738	53.15	2.00	74.0	20.85	Peak	94.00	300	Vertical	Pass
6**	16172.738	44.72	2.00	54.0	9.28	AV	94.00	300	Vertical	Pass

11ac20, U-NII-3, 1 GHz to 18 GHz, Middle Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1438.700	44.37	-16.96	74.0	29.63	Peak	39.00	200	Horizontal	Pass
1**	1438.700	31.89	-16.96	54.0	22.11	AV	39.00	200	Horizontal	Pass
2	4336.500	46.37	-4.89	74.0	27.63	Peak	62.00	400	Horizontal	Pass
2**	4336.500	37.52	-4.89	54.0	16.48	AV	62.00	400	Horizontal	Pass
3	5787.500	108.68	-2.46	--	--	Peak	314.00	150	Horizontal	N/A
3**	5787.500	101.84	-2.46	--	--	AV	314.00	150	Horizontal	N/A
4	7583.500	53.37	0.91	74.0	20.63	Peak	360.00	400	Horizontal	Pass
4**	7583.500	42.68	0.91	54.0	11.32	AV	360.00	400	Horizontal	Pass
5	11568.201	53.67	-1.01	74.0	20.33	Peak	324.00	200	Horizontal	Pass
5**	11568.201	44.30	-1.01	54.0	9.70	AV	324.00	200	Horizontal	Pass
6	16159.350	53.59	2.09	74.0	20.41	Peak	222.00	200	Horizontal	Pass
6**	16159.350	45.03	2.09	54.0	8.97	AV	222.00	200	Horizontal	Pass

11ac20, U-NII-3, 1 GHz to 18 GHz, Middle Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1437.800	42.04	-17.18	74.0	31.96	Peak	178.00	400	Vertical	Pass
1**	1437.800	29.16	-17.18	54.0	24.84	AV	178.00	400	Vertical	Pass
2	4259.500	46.51	-4.55	74.0	27.49	Peak	172.00	400	Vertical	Pass
2**	4259.500	37.09	-4.55	54.0	16.91	AV	172.00	400	Vertical	Pass
3	5791.250	99.68	-2.30	--	--	Peak	305.00	100	Vertical	N/A
3**	5791.250	91.54	-2.30	--	--	AV	305.00	100	Vertical	N/A
4	7489.250	52.84	1.40	74.0	21.16	Peak	305.00	400	Vertical	Pass
4**	7489.250	43.74	1.40	54.0	10.26	AV	305.00	400	Vertical	Pass
5	11562.263	52.64	-1.09	74.0	21.36	Peak	349.00	150	Vertical	Pass
5**	11562.263	44.31	-1.09	54.0	9.69	AV	349.00	150	Vertical	Pass
6	16168.275	52.66	2.03	74.0	21.34	Peak	230.00	400	Vertical	Pass
6**	16168.275	44.44	2.03	54.0	9.56	AV	230.00	400	Vertical	Pass

11ac20, U-NII-3, 1 GHz to 18 GHz, High Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1440.600	44.11	-16.95	74.0	29.89	Peak	32.00	200	Horizontal	Pass
1**	1440.600	30.72	-16.95	54.0	23.28	AV	32.00	200	Horizontal	Pass
2	4332.750	46.72	-5.08	74.0	27.28	Peak	298.00	300	Horizontal	Pass
2**	4332.750	36.77	-5.08	54.0	17.23	AV	298.00	300	Horizontal	Pass
3	5827.250	108.57	-2.49	--	--	Peak	298.00	150	Horizontal	N/A
3**	5827.250	101.41	-2.49	--	--	AV	298.00	150	Horizontal	N/A
4	7746.000	52.75	0.18	74.0	21.25	Peak	360.00	400	Horizontal	Pass
4**	7746.000	43.87	0.18	54.0	10.13	AV	360.00	400	Horizontal	Pass
5	11643.963	54.32	-1.26	74.0	19.68	Peak	324.00	100	Horizontal	Pass
5**	11643.963	43.28	-1.26	54.0	10.72	AV	324.00	100	Horizontal	Pass
6	16189.537	53.06	1.88	74.0	20.94	Peak	150.00	400	Horizontal	Pass
6**	16189.537	43.83	1.88	54.0	10.17	AV	150.00	400	Horizontal	Pass

11ac20, U-NII-3, 1 GHz to 18 GHz, High Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1439.800	41.29	-17.15	74.0	32.71	Peak	175.00	200	Vertical	Pass
1**	1439.800	29.19	-17.15	54.0	24.81	AV	175.00	200	Vertical	Pass
2	4272.000	46.41	-5.09	74.0	27.59	Peak	360.00	300	Vertical	Pass
2**	4272.000	36.83	-5.09	54.0	17.17	AV	360.00	300	Vertical	Pass
3	5820.500	98.18	-2.30	--	--	Peak	128.00	100	Vertical	N/A
3**	5820.500	90.54	-2.30	--	--	AV	128.00	100	Vertical	N/A
4	7717.500	52.54	1.12	74.0	21.46	Peak	84.00	300	Vertical	Pass
4**	7717.500	44.25	1.12	54.0	9.75	AV	84.00	300	Vertical	Pass
5	12403.488	51.99	1.10	74.0	22.01	Peak	22.00	150	Vertical	Pass
5**	12403.488	42.55	1.10	54.0	11.45	AV	22.00	150	Vertical	Pass
6	16143.863	52.96	2.10	74.0	21.04	Peak	137.00	400	Vertical	Pass
6**	16143.863	43.97	2.10	54.0	10.03	AV	137.00	400	Vertical	Pass

11ac40, U-NII-3, 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	1439.500	44.34	-17.07	74.0	29.66	Peak	31.00	400	Horizontal	Pass
1**	1439.500	31.14	-17.07	54.0	22.86	AV	31.00	400	Horizontal	Pass
2	4358.750	46.45	-4.75	74.0	27.55	Peak	186.00	200	Horizontal	Pass
2**	4358.750	38.32	-4.75	54.0	15.68	AV	186.00	200	Horizontal	Pass
3	5739.500	106.07	-2.08	--	--	Peak	304.00	100	Horizontal	N/A
3**	5739.500	97.78	-2.08	--	--	AV	304.00	100	Horizontal	N/A
4	7725.250	52.83	0.75	74.0	21.17	Peak	360.00	300	Horizontal	Pass
4**	7725.250	43.06	0.75	54.0	10.94	AV	360.00	300	Horizontal	Pass
5	12372.138	51.75	0.96	74.0	22.25	Peak	32.00	150	Horizontal	Pass
5**	12372.138	42.33	0.96	54.0	11.67	AV	32.00	150	Horizontal	Pass
6	16147.800	53.52	2.13	74.0	20.48	Peak	167.00	200	Horizontal	Pass
6**	16147.800	44.52	2.13	54.0	9.48	AV	167.00	200	Horizontal	Pass

11ac40, U-NII-3, 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	1439.200	41.07	-16.97	74.0	32.93	Peak	188.00	200	Vertical	Pass
1**	1439.200	29.36	-16.97	54.0	24.64	AV	188.00	200	Vertical	Pass
2	4380.250	46.38	-4.90	74.0	27.62	Peak	359.00	100	Vertical	Pass
2**	4380.250	37.80	-4.90	54.0	16.20	AV	359.00	100	Vertical	Pass
3	5747.250	95.42	-2.05	--	--	Peak	308.00	100	Vertical	N/A
3**	5747.250	88.29	-2.05	--	--	AV	308.00	100	Vertical	N/A
4	7727.250	53.02	0.40	74.0	20.98	Peak	213.00	100	Vertical	Pass
4**	7727.250	43.49	0.40	54.0	10.51	AV	213.00	100	Vertical	Pass
5	12379.975	51.57	1.00	74.0	22.43	Peak	295.00	100	Vertical	Pass
5**	12379.975	42.13	1.00	54.0	11.87	AV	295.00	100	Vertical	Pass
6	16174.312	53.82	1.99	74.0	20.18	Peak	355.00	200	Vertical	Pass
6**	16174.312	43.86	1.99	54.0	10.14	AV	355.00	200	Vertical	Pass

11ac40, U-NII-3, 1 GHz to 18 GHz, High Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1435.200	44.55	-17.03	74.0	29.45	Peak	41.00	300	Horizontal	Pass
1**	1435.200	30.65	-17.03	54.0	23.35	AV	41.00	300	Horizontal	Pass
2	4253.250	46.37	-4.31	74.0	27.63	Peak	17.00	300	Horizontal	Pass
2**	4253.250	37.87	-4.31	54.0	16.13	AV	17.00	300	Horizontal	Pass
3	5799.750	106.36	-2.36	--	--	Peak	283.00	150	Horizontal	N/A
3**	5799.750	98.44	-2.36	--	--	AV	283.00	150	Horizontal	N/A
4	7663.750	52.72	0.81	74.0	21.28	Peak	58.00	400	Horizontal	Pass
4**	7663.750	43.24	0.81	54.0	10.76	AV	58.00	400	Horizontal	Pass
5	12574.250	51.55	0.72	74.0	22.45	Peak	203.00	150	Horizontal	Pass
5**	12574.250	42.12	0.72	54.0	11.88	AV	203.00	150	Horizontal	Pass
6	15837.263	53.96	1.49	74.0	20.04	Peak	149.00	200	Horizontal	Pass
6**	15837.263	43.37	1.49	54.0	10.63	AV	149.00	200	Horizontal	Pass

11ac40, U-NII-3, 1 GHz to 18 GHz, High Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1440.300	41.51	-17.03	74.0	32.49	Peak	188.00	400	Vertical	Pass
1**	1440.300	30.45	-17.03	54.0	23.55	AV	188.00	400	Vertical	Pass
2	4304.500	46.63	-5.19	74.0	27.37	Peak	202.00	200	Vertical	Pass
2**	4304.500	37.77	-5.19	54.0	16.23	AV	202.00	200	Vertical	Pass
3	5804.000	96.63	-2.31	--	--	Peak	37.00	100	Vertical	N/A
3**	5804.000	88.83	-2.31	--	--	AV	37.00	100	Vertical	N/A
4	7727.000	53.10	0.40	74.0	20.90	Peak	244.00	100	Vertical	Pass
4**	7727.000	44.87	0.40	54.0	9.13	AV	244.00	100	Vertical	Pass
5	12362.875	52.07	0.91	74.0	21.93	Peak	167.00	200	Vertical	Pass
5**	12362.875	43.06	0.91	54.0	10.94	AV	167.00	200	Vertical	Pass
6	16170.637	53.07	2.01	74.0	20.93	Peak	87.00	400	Vertical	Pass
6**	16170.637	44.29	2.01	54.0	9.71	AV	87.00	400	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1438.200	43.88	-17.18	74.0	30.12	Peak	36.00	300	Horizontal	Pass
1**	1438.200	30.85	-17.18	54.0	23.15	AV	36.00	300	Horizontal	Pass
2	4259.000	46.66	-4.33	74.0	27.34	Peak	138.00	300	Horizontal	Pass
2**	4259.000	37.76	-4.33	54.0	16.24	AV	138.00	300	Horizontal	Pass
3	5751.000	104.03	-2.15	--	--	Peak	301.00	200	Horizontal	N/A
3**	5751.000	95.69	-2.15	--	--	AV	301.00	200	Horizontal	N/A
4	7581.500	52.28	0.55	74.0	21.72	Peak	240.00	300	Horizontal	Pass
4**	7581.500	42.98	0.55	54.0	11.02	AV	240.00	300	Horizontal	Pass
5	12413.938	52.47	1.09	74.0	21.53	Peak	251.00	150	Horizontal	Pass
5**	12413.938	43.92	1.09	54.0	10.08	AV	251.00	150	Horizontal	Pass
6	16165.650	54.17	2.05	74.0	19.83	Peak	345.00	200	Horizontal	Pass
6**	16165.650	44.56	2.05	54.0	9.44	AV	345.00	200	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1441.100	44.52	-16.69	74.0	29.48	Peak	197.00	300	Vertical	Pass
1**	1441.100	29.77	-16.69	54.0	24.23	AV	197.00	300	Vertical	Pass
2	4314.000	46.93	-4.99	74.0	27.07	Peak	140.00	100	Vertical	Pass
2**	4314.000	37.84	-4.99	54.0	16.16	AV	140.00	100	Vertical	Pass
3	5751.250	93.69	-2.17	--	--	Peak	301.00	100	Vertical	N/A
3**	5751.250	85.26	-2.17	--	--	AV	301.00	100	Vertical	N/A
4	7364.750	52.39	0.88	74.0	21.61	Peak	48.00	100	Vertical	Pass
4**	7364.750	43.76	0.88	54.0	10.24	AV	48.00	100	Vertical	Pass
5	12376.175	51.90	0.98	74.0	22.10	Peak	205.00	200	Vertical	Pass
5**	12376.175	42.19	0.98	54.0	11.81	AV	205.00	200	Vertical	Pass
6	16172.738	53.52	2.00	74.0	20.48	Peak	198.00	300	Vertical	Pass
6**	16172.738	44.90	2.00	54.0	9.10	AV	198.00	300	Vertical	Pass

11x20(SU), U-NII-3, 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	1441.300	44.54	-16.80	74.0	29.46	Peak	32.00	100	Horizontal	Pass
1**	1441.300	32.46	-16.80	54.0	21.54	AV	32.00	100	Horizontal	Pass
2	4326.500	46.78	-5.05	74.0	27.22	Peak	264.00	100	Horizontal	Pass
2**	4326.500	36.36	-5.05	54.0	17.64	AV	264.00	100	Horizontal	Pass
3	5740.000	110.51	-2.06	--	--	Peak	311.00	200	Horizontal	N/A
3**	5740.000	99.56	-2.06	--	--	AV	311.00	200	Horizontal	N/A
4	7711.000	52.28	1.81	74.0	21.72	Peak	42.00	300	Horizontal	Pass
4**	7711.000	43.46	1.81	54.0	10.54	AV	42.00	300	Horizontal	Pass
5	12083.100	51.86	-0.20	74.0	22.14	Peak	239.00	200	Horizontal	Pass
5**	12083.100	41.01	-0.20	54.0	12.99	AV	239.00	200	Horizontal	Pass
6	16162.500	53.29	2.07	74.0	20.71	Peak	281.00	400	Horizontal	Pass
6**	16162.500	44.37	2.07	54.0	9.63	AV	281.00	400	Horizontal	Pass

11x20(SU), U-NII-3, 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	1438.800	41.27	-16.92	74.0	32.73	Peak	166.00	100	Vertical	Pass
1**	1438.800	28.80	-16.92	54.0	25.20	AV	166.00	100	Vertical	Pass
2	4257.000	46.22	-4.04	74.0	27.78	Peak	320.00	200	Vertical	Pass
2**	4257.000	36.89	-4.04	54.0	17.11	AV	320.00	200	Vertical	Pass
3	5746.250	100.82	-1.99	--	--	Peak	340.00	100	Vertical	N/A
3**	5746.250	90.68	-1.99	--	--	AV	340.00	100	Vertical	N/A
4	7639.500	52.82	0.59	74.0	21.18	Peak	16.00	100	Vertical	Pass
4**	7639.500	42.84	0.59	54.0	11.16	AV	16.00	100	Vertical	Pass
5	12423.912	53.22	1.07	74.0	20.78	Peak	263.00	150	Vertical	Pass
5**	12423.912	43.68	1.07	54.0	10.32	AV	263.00	150	Vertical	Pass
6	16172.474	53.15	2.00	74.0	20.85	Peak	92.00	300	Vertical	Pass
6**	16172.474	44.77	2.00	54.0	9.23	AV	92.00	300	Vertical	Pass

11x20(SU), U-NII-3, 1 GHz to 18 GHz, Middle Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1437.600	44.49	-17.10	74.0	29.51	Peak	39.00	300	Horizontal	Pass
1**	1437.600	31.82	-17.10	54.0	22.18	AV	39.00	300	Horizontal	Pass
2	4398.250	46.44	-5.08	74.0	27.56	Peak	36.00	100	Horizontal	Pass
2**	4398.250	36.59	-5.08	54.0	17.41	AV	36.00	100	Horizontal	Pass
3	5778.250	108.86	-2.54	--	--	Peak	301.00	150	Horizontal	N/A
3**	5778.250	100.20	-2.54	--	--	AV	301.00	150	Horizontal	N/A
4	7490.000	52.49	1.37	74.0	21.51	Peak	57.00	200	Horizontal	Pass
4**	7490.000	43.21	1.37	54.0	10.79	AV	57.00	200	Horizontal	Pass
5	11559.650	52.41	-1.12	74.0	21.59	Peak	329.00	200	Horizontal	Pass
5**	11559.650	42.78	-1.12	54.0	11.22	AV	329.00	200	Horizontal	Pass
6	16072.724	52.81	1.39	74.0	21.19	Peak	4.00	100	Horizontal	Pass
6**	16072.724	43.71	1.39	54.0	10.29	AV	4.00	100	Horizontal	Pass

11x20(SU), U-NII-3, 1 GHz to 18 GHz, Middle Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1437.600	41.16	-17.10	74.0	32.84	Peak	171.00	300	Vertical	Pass
1**	1437.600	29.08	-17.10	54.0	24.92	AV	171.00	300	Vertical	Pass
2	4223.750	47.05	-5.04	74.0	26.95	Peak	111.00	200	Vertical	Pass
2**	4223.750	37.15	-5.04	54.0	16.85	AV	111.00	200	Vertical	Pass
3	5793.250	99.75	-2.18	--	--	Peak	253.00	100	Vertical	N/A
3**	5793.250	89.21	-2.18	--	--	AV	253.00	100	Vertical	N/A
4	7704.500	53.08	1.93	74.0	20.92	Peak	277.00	200	Vertical	Pass
4**	7704.500	43.13	1.93	54.0	10.87	AV	277.00	200	Vertical	Pass
5	11576.513	52.49	-0.91	74.0	21.51	Peak	349.00	150	Vertical	Pass
5**	11576.513	41.97	-0.91	54.0	12.03	AV	349.00	150	Vertical	Pass
6	16165.125	52.83	2.05	74.0	21.17	Peak	0.00	100	Vertical	Pass
6**	16165.125	44.74	2.05	54.0	9.26	AV	0.00	100	Vertical	Pass

11x20(SU), U-NII-3, 1 GHz to 18 GHz, High Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1442.300	44.35	-16.70	74.0	29.65	Peak	44.00	200	Horizontal	Pass
1**	1442.300	30.83	-16.70	54.0	23.17	AV	44.00	200	Horizontal	Pass
2	4190.500	46.03	-5.37	74.0	27.97	Peak	257.00	300	Horizontal	Pass
2**	4190.500	36.55	-5.37	54.0	17.45	AV	257.00	300	Horizontal	Pass
3	5830.750	108.99	-2.51	--	--	Peak	281.00	100	Horizontal	N/A
3**	5830.750	100.04	-2.51	--	--	AV	281.00	100	Horizontal	N/A
4	7311.250	53.20	0.55	74.0	20.80	Peak	360.00	300	Horizontal	Pass
4**	7311.250	43.12	0.55	54.0	10.88	AV	360.00	300	Horizontal	Pass
5	11650.138	53.77	-1.35	74.0	20.23	Peak	319.00	150	Horizontal	Pass
5**	11650.138	43.04	-1.35	54.0	10.96	AV	319.00	150	Horizontal	Pass
6	16161.450	53.78	2.07	74.0	20.22	Peak	247.00	100	Horizontal	Pass
6**	16161.450	44.79	2.07	54.0	9.21	AV	247.00	100	Horizontal	Pass

11x20(SU), U-NII-3, 1 GHz to 18 GHz, High Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1442.100	41.79	-16.84	74.0	32.21	Peak	168.00	100	Vertical	Pass
1**	1442.100	29.74	-16.84	54.0	24.26	AV	168.00	100	Vertical	Pass
2	4332.250	46.35	-4.70	74.0	27.65	Peak	279.00	400	Vertical	Pass
2**	4332.250	37.59	-4.70	54.0	16.41	AV	279.00	400	Vertical	Pass
3	5823.250	99.30	-2.66	--	--	Peak	116.00	200	Vertical	N/A
3**	5823.250	90.20	-2.66	--	--	AV	116.00	200	Vertical	N/A
4	7729.500	52.31	0.82	74.0	21.69	Peak	188.00	300	Vertical	Pass
4**	7729.500	43.40	0.82	54.0	10.60	AV	188.00	300	Vertical	Pass
5	12438.875	51.98	1.05	74.0	22.02	Peak	217.00	200	Vertical	Pass
5**	12438.875	42.03	1.05	54.0	11.97	AV	217.00	200	Vertical	Pass
6	16169.062	53.45	2.02	74.0	20.55	Peak	245.00	400	Vertical	Pass
6**	16169.062	44.83	2.02	54.0	9.17	AV	245.00	400	Vertical	Pass

11ax40(SU), U-NII-3, 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	1439.700	44.23	-17.15	74.0	29.77	Peak	41.00	200	Horizontal	Pass
1**	1439.700	30.99	-17.15	54.0	23.01	AV	41.00	200	Horizontal	Pass
2	4260.250	46.43	-4.42	74.0	27.57	Peak	18.00	200	Horizontal	Pass
2**	4260.250	37.59	-4.42	54.0	16.41	AV	18.00	200	Horizontal	Pass
3	5764.500	108.14	-2.08	--	--	Peak	262.00	100	Horizontal	N/A
3**	5764.500	97.81	-2.08	--	--	AV	262.00	100	Horizontal	N/A
4	7358.750	52.44	0.94	74.0	21.56	Peak	282.00	300	Horizontal	Pass
4**	7358.750	44.06	0.94	54.0	9.94	AV	282.00	300	Horizontal	Pass
5	12502.762	51.96	1.42	74.0	22.04	Peak	183.00	200	Horizontal	Pass
5**	12502.762	43.39	1.42	54.0	10.61	AV	183.00	200	Horizontal	Pass
6	16166.963	54.57	2.04	74.0	19.43	Peak	201.00	200	Horizontal	Pass
6**	16166.963	45.21	2.04	54.0	8.79	AV	201.00	200	Horizontal	Pass

11ax40(SU), U-NII-3, 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	1442.300	41.88	-16.70	74.0	32.12	Peak	165.00	300	Vertical	Pass
1**	1442.300	29.93	-16.70	54.0	24.07	AV	165.00	300	Vertical	Pass
2	4355.000	47.12	-4.78	74.0	26.88	Peak	118.00	400	Vertical	Pass
2**	4355.000	37.29	-4.78	54.0	16.71	AV	118.00	400	Vertical	Pass
3	5747.750	96.23	-2.31	--	--	Peak	301.00	150	Vertical	N/A
3**	5747.750	87.58	-2.31	--	--	AV	301.00	150	Vertical	N/A
4	7314.500	52.24	0.59	74.0	21.76	Peak	98.00	400	Vertical	Pass
4**	7314.500	43.45	0.59	54.0	10.55	AV	98.00	400	Vertical	Pass
5	11700.725	52.37	-0.51	74.0	21.63	Peak	7.00	200	Vertical	Pass
5**	11700.725	42.31	-0.51	54.0	11.69	AV	7.00	200	Vertical	Pass
6	16166.700	53.09	2.04	74.0	20.91	Peak	225.00	300	Vertical	Pass
6**	16166.700	44.41	2.04	54.0	9.59	AV	225.00	300	Vertical	Pass

11x40(SU), U-NII-3, 1 GHz to 18 GHz, High Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1438.100	45.19	-17.23	74.0	28.81	Peak	43.00	100	Horizontal	Pass
1**	1438.100	29.99	-17.23	54.0	24.01	AV	43.00	100	Horizontal	Pass
2	4194.250	46.58	-5.33	74.0	27.42	Peak	27.00	200	Horizontal	Pass
2**	4194.250	37.19	-5.33	54.0	16.81	AV	27.00	200	Horizontal	Pass
3	5800.250	107.23	-2.27	--	--	Peak	272.00	150	Horizontal	N/A
3**	5800.250	98.98	-2.27	--	--	AV	272.00	150	Horizontal	N/A
4	7496.500	52.62	0.73	74.0	21.38	Peak	114.00	200	Horizontal	Pass
4**	7496.500	43.04	0.73	54.0	10.96	AV	114.00	200	Horizontal	Pass
5	12276.662	51.90	0.81	74.0	22.10	Peak	320.00	100	Horizontal	Pass
5**	12276.662	42.74	0.81	54.0	11.26	AV	320.00	100	Horizontal	Pass
6	16174.312	53.82	1.99	74.0	20.18	Peak	248.00	300	Horizontal	Pass
6**	16174.312	45.29	1.99	54.0	8.71	AV	248.00	300	Horizontal	Pass

11x40(SU), U-NII-3, 1 GHz to 18 GHz, High Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1438.800	41.44	-16.92	74.0	32.56	Peak	167.00	100	Vertical	Pass
1**	1438.800	30.67	-16.92	54.0	23.33	AV	167.00	100	Vertical	Pass
2	3653.250	46.42	-6.39	74.0	27.58	Peak	61.00	400	Vertical	Pass
2**	3653.250	36.42	-6.39	54.0	17.58	AV	61.00	400	Vertical	Pass
3	5802.250	97.50	-2.30	--	--	Peak	192.00	200	Vertical	N/A
3**	5802.250	88.59	-2.30	--	--	AV	192.00	200	Vertical	N/A
4	7733.000	52.56	0.56	74.0	21.44	Peak	37.00	300	Vertical	Pass
4**	7733.000	43.20	0.56	54.0	10.80	AV	37.00	300	Vertical	Pass
5	12420.825	52.13	1.08	74.0	21.87	Peak	297.00	100	Vertical	Pass
5**	12420.825	42.51	1.08	54.0	11.49	AV	297.00	100	Vertical	Pass
6	16071.937	52.86	1.38	74.0	21.14	Peak	225.00	300	Vertical	Pass
6**	16071.937	42.84	1.38	54.0	11.16	AV	225.00	300	Vertical	Pass

11x80(SU), U-NII-3, 1 GHz to 18 GHz, Middle Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1440.800	44.19	-16.78	74.0	29.81	Peak	43.00	300	Horizontal	Pass
1**	1440.800	31.30	-16.78	54.0	22.70	AV	43.00	300	Horizontal	Pass
2	4205.500	46.92	-5.21	74.0	27.08	Peak	98.00	400	Horizontal	Pass
2**	4205.500	38.49	-5.21	54.0	15.51	AV	98.00	400	Horizontal	Pass
3	5744.500	105.77	-1.87	--	--	Peak	281.00	100	Horizontal	N/A
3**	5744.500	95.37	-1.87	--	--	AV	281.00	100	Horizontal	N/A
4	7358.000	52.65	0.60	74.0	21.35	Peak	281.00	400	Horizontal	Pass
4**	7358.000	43.42	0.60	54.0	10.58	AV	281.00	400	Horizontal	Pass
5	12518.912	52.38	1.33	74.0	21.62	Peak	31.00	150	Horizontal	Pass
5**	12518.912	43.56	1.33	54.0	10.44	AV	31.00	150	Horizontal	Pass
6	15759.037	53.35	1.20	74.0	20.65	Peak	220.00	400	Horizontal	Pass
6**	15759.037	42.76	1.20	54.0	11.24	AV	220.00	400	Horizontal	Pass

11x80(SU), U-NII-3, 1 GHz to 18 GHz, Middle Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1442.700	42.26	-16.97	74.0	31.74	Peak	172.00	100	Vertical	Pass
1**	1442.700	29.53	-16.97	54.0	24.47	AV	172.00	100	Vertical	Pass
2	4207.750	46.32	-4.90	74.0	27.68	Peak	161.00	100	Vertical	Pass
2**	4207.750	37.20	-4.90	54.0	16.80		161.00	100	Vertical	Pass
3	5805.250	95.21	-2.16	--	--	Peak	231.00	200	Vertical	N/A
3**	5805.250	85.29	-2.16	--	--	AV	231.00	200	Vertical	N/A
4	7480.000	52.71	0.85	74.0	21.29	Peak	231.00	100	Vertical	Pass
4**	7480.000	43.25	0.85	54.0	10.75	AV	231.00	100	Vertical	Pass
5	12063.388	51.81	-0.21	74.0	22.19	Peak	177.00	200	Vertical	Pass
5**	12063.388	42.73	-0.21	54.0	11.27	AV	177.00	200	Vertical	Pass
6	16160.400	53.96	2.08	74.0	20.04	Peak	275.00	400	Vertical	Pass
6**	16160.400	44.68	2.08	54.0	9.32	AV	275.00	400	Vertical	Pass