

8. RADIATED SPURIOUS EMISSIONS AND BAND EDGE (RESTRICTED-BAND)

8.1. Limit

The maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

- (1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (4) For transmitters operating in the 5.725-5.85 GHz band: 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.

The unwanted emissions which fall in Restricted bands shall not exceed the field strength levels specified in the following table:

Refer to CFR 47 FCC §15.205, §15.209 and §15.407 (b).

Radiation Disturbance Test Limit for FCC (Class B) (9 kHz ~ 1 GHz)

Frequency (MHz)	Field Strength(μ V/m)	Distance(m)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3
Above 1000	500	

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

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

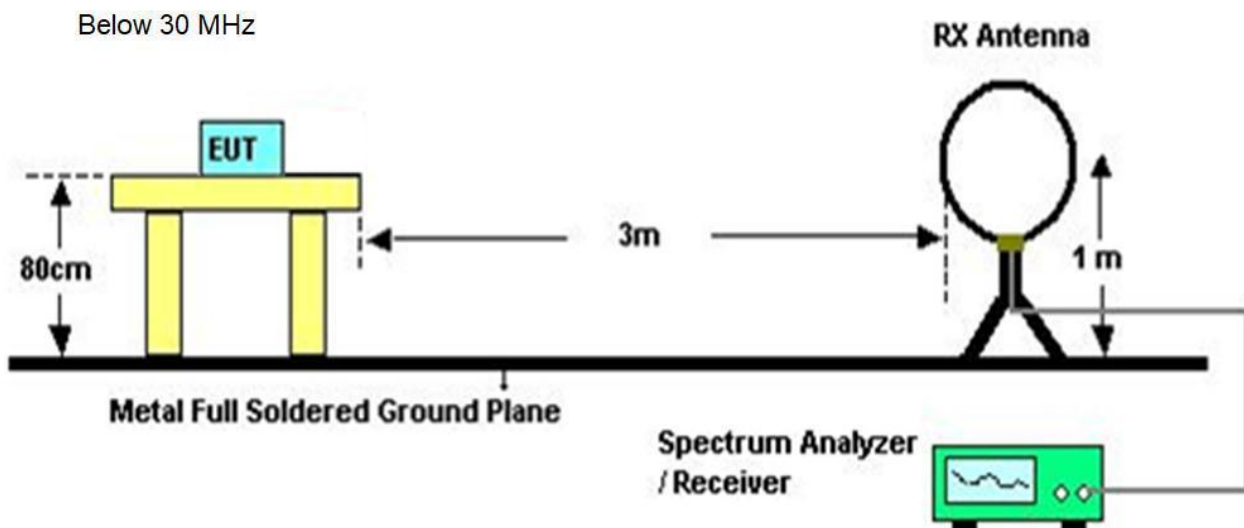
15.205 Restricted frequency band			
MHZ	MHz	MHZ	GHZ
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(2)

Note:

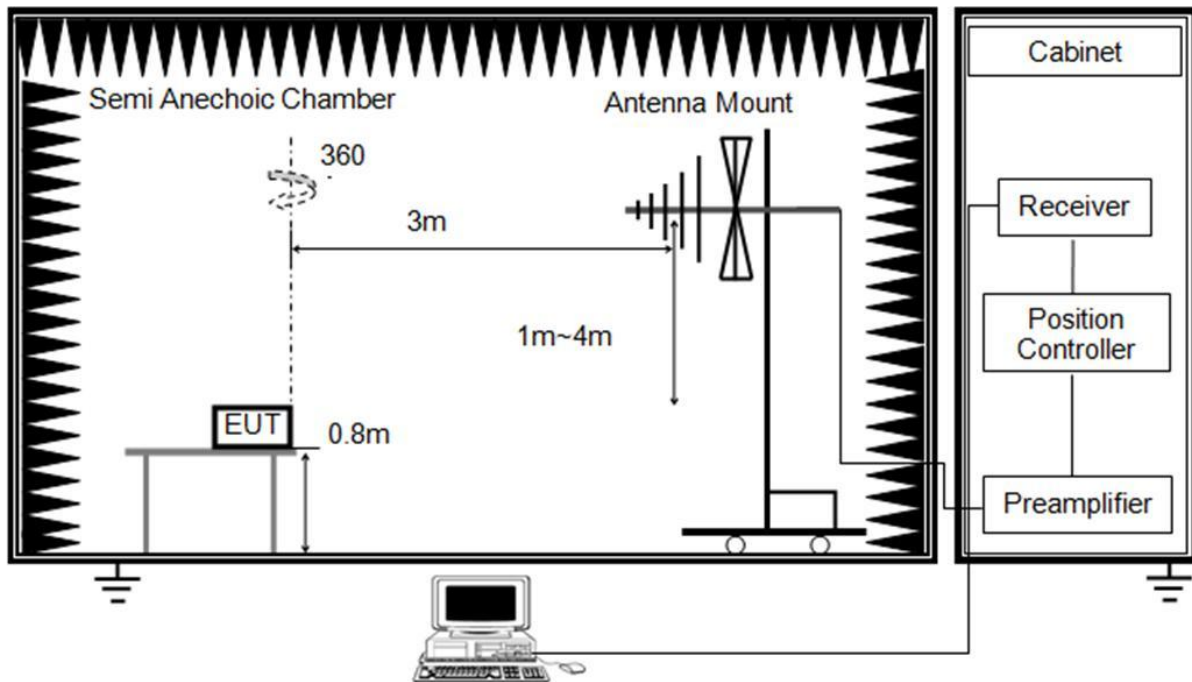
1. $\text{dB}\mu\text{V}/\text{m}=20\text{Log}(\mu\text{V}/\text{m})$
2. Above 1GHz the formula is used to convert the EIRP to field strength
 $E[\text{dB}\mu\text{V}/\text{m}]=\text{EIRP}[\text{dBm}]-20 \log (d[\text{m}])+104.77$,
 where E is field strength and d is distance at which the field strength limit is specified in the applicable requirements.
 for example, 3m field strength($\text{dB}\mu\text{V}/\text{m}$)- $\text{EIRP}-20\log(3)+104.77-\text{EIRP}+95.2$

8.2. Test Setup

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

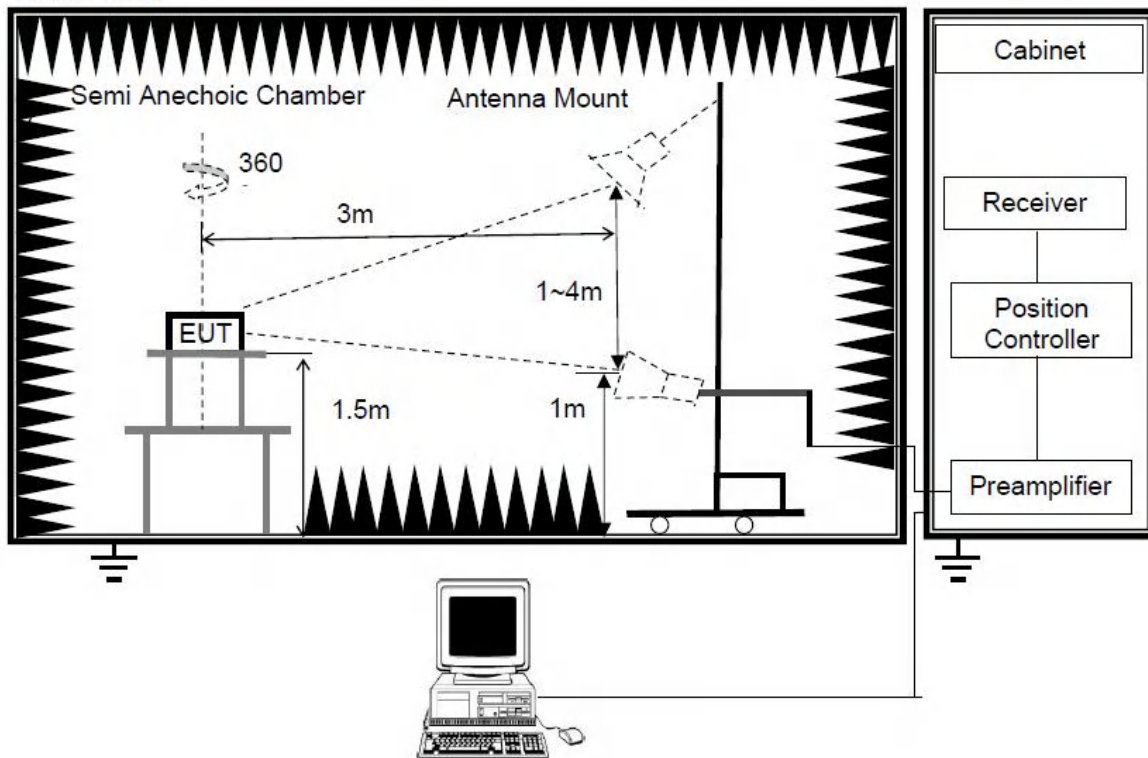


(B) Radiated Emission Test Set-Up, Frequency below 1000MHz
Below 1 GHz and above 30 MHz



(C) Radiated Emission Test Set-Up, Frequency above 1GHz

Above 1GHz



8.3. Spectrum Analyzer Setting

For 9KHz-150KHz	
Spectrum Parameters	Setting
RBW	300Hz (for Peak&AVG)/CISPR 200Hz (for QP)
VBW	300Hz (for Peak&AVG)/CISPR 200Hz (for QP)
Start frequency	9KHz
Stop frequency	150KHz
Sweep Time	Auto
Detector	PEAK/QP/AVG
Trace Mode	Max Hold

Note: For 9KHz-90KHz&110KHz-150KHz,the detector is average,other frequency is CISPR QP detector.

For 150KHz-30MHz	
Spectrum Parameters	Setting
RBW	9KHz
VBW	9KHz
Start frequency	150KHz
Stop frequency	30MHz
Sweep Time	Auto
Detector	QP
Trace Mode	Max Hold

Note : For 150KHz-490KHz,the detector is average,other frequency is CISPR QP detector.

For 30MHz-1GHz	
Spectrum Parameters	Setting
RBW	120KHz
VBW	300KHz
Start frequency	30MHz
Stop frequency	1GHz
Sweep Time	Auto
Detector	QP
Trace Mode	Max Hold

For Above 1GHz		
Spectrum Parameters	Setting	
RBW	1MHz	
VBW	PEAK Measurement	AVG Measurement
	3MHz	Duty cycle $\geq$ 98%, VBW=10Hz Duty cycle $<$ 98%, VBW $\geq$ 1/T Video bandwidth mode-RMS (power averaging)
Start frequency	1GHz	
Stop frequency	40GHz	
Sweep Time	Auto	
Detector	PEAK	
Trace Mode	Max Hold	

Note: T is the on-time time of the duty cycle, when EUT transmit continuously with maximum output power, unit is seconds. reference section 3 for the on-time time.

8.4. Test Procedure

- EUT was placed on a turn table, which is 0.8-meter high above ground for below 1GHz test, and which is 1.5-meter high above ground for above 1GHz test.
- The diameter of the turntable is 2 meters. The EUT is located at the center of the edge of the test support table. Since the turntable is large enough, the EUT is placed at the center of the edge of the test support table as well as at the center of the turntable.
- EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower.
- Set the EUT transmit continuously with maximum output power.
- The turn table can rotate 360 degrees to determine the position of the maximum emission level.
- The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Both horizontal and vertical polarization of the antenna are set on test.
- Spectrum analyzer setting parameters in accordance with section 8.3.
- Repeat above procedures until all channels and test modes were measured.
- Record the results in the test report.

Note:

1. For emissions above 1GHz, if peak level complies with average limit, then the average level is deemed to comply with average limit.
2. For 30-1000MHz Radiation emissions, IEEE 802.11a, IEEE 802.11n HT20, IEEE 802.11n HT40 and IEEE 802.11ac VHT20 mode with High, medium and low frequency channels all have been tested, only worse case: IEEE 802.11n HT20 mode with CH36 5180MHz is reported.
3. Radiated emission test from 9KHz to 10th harmonic of fundamental was verified, and no emission found except system noise floor in 9KHz to 30MHz and not recorded in this report.
4. The amplitude of 18GHz to 25GHz and 25GHz to 40GHz spurious emission-that-is attenuated by more than 20dB below the-permissible-limit has no need-to-be-reported.

8.5. Test Result

Radiated Emissions 30-1000MHz

EUT: Tablet PC
M/N: AF12/ES418
Test Voltage: Charging Input: DC 9V by Type-C Port
Ant. Pol.: Vertical
Test Mode: TX Mode
Note: only worse case: IEEE 802.11n HT20 mode with CH36 5180MHz is reported
Detailed results are shown below

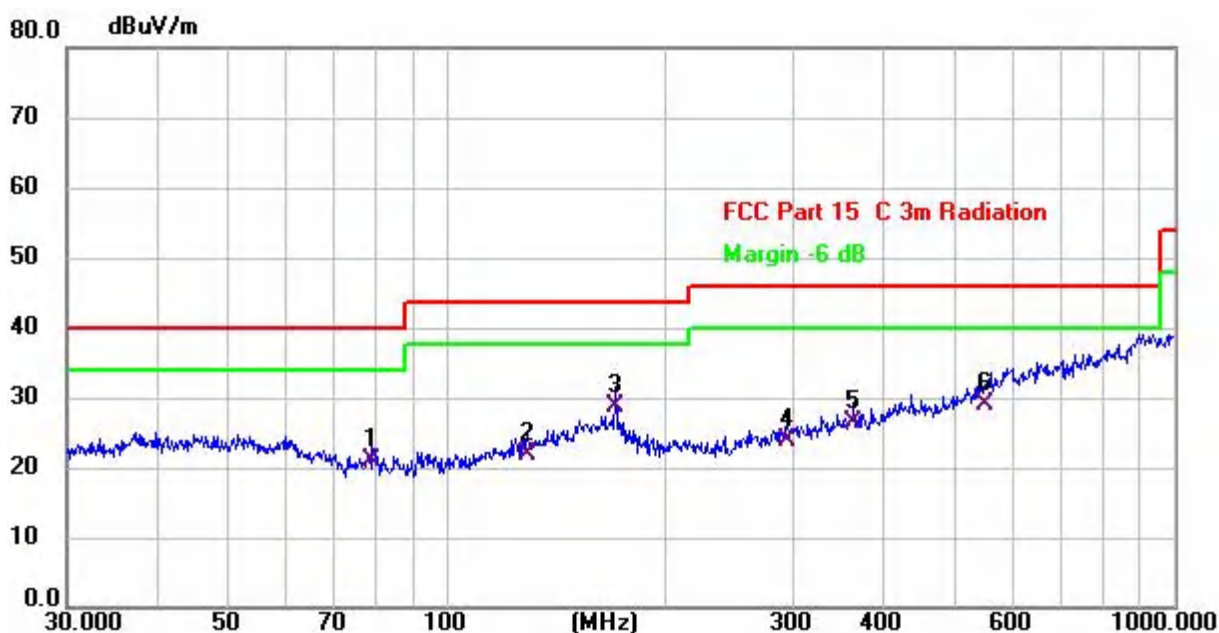


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	67.438	5.15	17.50	22.65	40.00	-17.35	QP			P	
2	91.175	6.55	15.57	22.12	43.50	-21.38	QP			P	
3 *	170.793	18.09	19.20	37.29	43.50	-6.21	QP			P	
4	305.680	2.39	20.87	23.26	46.00	-22.74	QP			P	
5	396.242	3.53	22.49	26.02	46.00	-19.98	QP			P	
6	570.610	4.01	26.00	30.01	46.00	-15.99	QP			P	

Remarks: 1). Level (dBuV/m) = Reading (dBuV/m) + Factor (dB/m)
2). Factor(dB/m) =Antenna Factor (dB/m) + Cable loss (dB)
3). Margin(dB) = Limit (dBuV/m) - Level (dBuV/m)

EUT: Tablet PC
M/N: AF12/ES418
Test Voltage: Charging Input: DC 9V by Type-C Port
Ant. Pol.: Horizontal
Test Mode: TX Mode

Note: only worse case: IEEE 802.11n HT20 mode with CH36 5180MHz is reported
Detailed results are shown below



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	78.965	5.13	15.97	21.10	40.00	-18.90	QP			P	
2	129.015	3.11	18.87	21.98	43.50	-21.52	QP			P	
3 *	170.793	9.42	19.20	28.62	43.50	-14.88	QP			P	
4	293.084	4.03	19.72	23.75	46.00	-22.25	QP			P	
5	362.984	4.52	21.78	26.30	46.00	-19.70	QP			P	
6	550.948	3.01	25.97	28.98	46.00	-17.02	QP			P	

Remarks: 1). Level (dBμV/m) = Reading (dBμV/m) + Factor (dB/m)
2). Factor(dB/m) = Antenna Factor (dB/m) + Cable loss (dB)
3). Margin(dB) = Limit (dBμV/m) - Level (dBμV/m)

Radiated Emissions Above 1GHz - IEEE 802.11a (U-NII-1)

IEEE 802.11a-CH36 5180MHz										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1897.000	42.45	-22.57	68.2	25.75	Peak	360.00	150	Vertical	Pass
1**	1897.000	29.84	-22.57	--	-29.84	AV	360.00	150	Vertical	N/A
2	5137.750	50.36	-8.61	74.0	23.64	Peak	36.00	150	Vertical	Pass
2**	5137.750	41.24	-8.61	54.0	12.76	AV	36.00	150	Vertical	Pass
3	7034.750	53.14	-5.50	68.2	15.06	Peak	108.00	150	Vertical	Pass
3**	7034.750	43.32	-5.50	--	-43.32	AV	108.00	150	Vertical	N/A
4	10360.00	44.08	-5.14	68.2	24.12	Peak	108.00	150	Vertical	Pass
4**	10360.00	37.33	-5.14	--	-37.33	AV	108.00	150	Vertical	N/A
5	15540.000	45.81	-3.05	74.0	28.19	Peak	36.00	150	Vertical	Pass
5**	15540.000	39.37	-3.05	54.0	14.63	AV	36.00	150	Vertical	Pass
6	16770.449	52.86	0.30	68.2	15.34	Peak	180.00	150	Vertical	Pass
6**	16770.449	42.18	0.30	--	-42.18	AV	180.00	150	Vertical	N/A

IEEE 802.11a-CH36 5180MHz										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1330.500	41.61	-23.90	74.0	32.39	Peak	360.00	150	Horizontal	Pass
1**	1330.500	33.26	-23.90	54.0	20.74	AV	360.00	150	Horizontal	Pass
2	5133.000	50.18	-8.68	74.0	23.82	Peak	252.00	150	Horizontal	Pass
2**	5133.000	41.27	-8.68	54.0	12.73	AV	252.00	150	Horizontal	Pass
3	7114.250	53.10	-6.42	68.2	15.10	Peak	144.00	150	Horizontal	Pass
3**	7114.250	42.21	-6.42	--	-42.21	AV	144.00	150	Horizontal	N/A
4	10360.00	45.76	-5.14	68.2	22.44	Peak	36.00	150	Horizontal	Pass
4**	10360.00	38.09	-5.14	--	-38.09	AV	36.00	150	Horizontal	N/A
5	15540.000	45.70	-3.05	74.0	28.30	Peak	180.00	150	Horizontal	Pass
5**	15540.000	38.19	-3.05	54.0	15.81	AV	180.00	150	Horizontal	Pass
6	17931.749	53.42	1.63	74.0	20.58	Peak	360.00	150	Horizontal	Pass
6**	17931.749	43.74	1.63	54.0	10.26	AV	360.00	150	Horizontal	Pass

IEEE 802.11a-CH42 5220MHz										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1332.600	41.64	-23.92	74.0	32.36	Peak	252.00	150	Horizontal	Pass
1**	1332.600	33.95	-23.92	54.0	20.05	AV	252.00	150	Horizontal	Pass
2	5116.250	49.31	-8.91	74.0	24.69	Peak	288.00	150	Horizontal	Pass
2**	5116.250	41.22	-8.91	54.0	12.78	AV	288.00	150	Horizontal	Pass
3	7021.500	54.03	-5.56	68.2	14.17	Peak	72.00	150	Horizontal	Pass
3**	7021.500	44.20	-5.56	--	-44.20	AV	72.00	150	Horizontal	N/A
4	10440.000	43.88	-5.20	68.2	24.32	Peak	108.00	150	Horizontal	Pass
4**	10440.000	38.23	-5.20	--	-38.23	AV	108.00	150	Horizontal	N/A
5	15660.000	45.27	-2.47	74.0	28.73	Peak	252.00	150	Horizontal	Pass
5**	15660.000	39.62	-2.47	54.0	14.38	AV	252.00	150	Horizontal	Pass
6	17931.749	52.93	1.63	74.0	21.07	Peak	216.00	150	Horizontal	Pass
6**	17931.749	43.75	1.63	54.0	10.25	AV	216.00	150	Horizontal	Pass

IEEE 802.11a-CH42 5220MHz

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2301.000	41.72	-19.51	68.2	26.48	Peak	108.00	150	Vertical	Pass
1**	2301.000	32.02	-19.51	--	-32.02	AV	108.00	150	Vertical	N/A
2	5130.500	50.81	-8.73	74.0	23.19	Peak	36.00	150	Vertical	Pass
2**	5130.500	40.59	-8.73	54.0	13.41	AV	36.00	150	Vertical	Pass
3	7026.000	52.86	-5.56	68.2	15.34	Peak	360.00	150	Vertical	Pass
3**	7026.000	42.81	-5.56	--	-42.81	AV	360.00	150	Vertical	N/A
4	10440.000	44.32	-5.20	68.2	23.88	Peak	144.00	150	Vertical	Pass
4**	10440.000	38.60	-5.20	--	-38.60	AV	144.00	150	Vertical	N/A
5	15660.000	45.88	-2.47	74.0	28.12	Peak	324.00	150	Vertical	Pass
5**	15660.000	39.48	-2.47	54.0	14.52	AV	324.00	150	Vertical	Pass
6	17474.474	52.88	1.53	68.2	15.32	Peak	360.00	150	Vertical	Pass
6**	17474.474	43.73	1.53	--	-43.73	AV	360.00	150	Vertical	N/A

IEEE 802.11a-CH48 5240MHz

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1863.300	42.53	-22.87	68.2	25.67	Peak	216.00	150	Vertical	Pass
1**	1863.300	28.91	-22.87	--	-28.91	AV	216.00	150	Vertical	N/A
2	5070.750	49.68	-9.61	74.0	24.32	Peak	216.00	150	Vertical	Pass
2**	5070.750	40.00	-9.61	54.0	14.00	AV	216.00	150	Vertical	Pass
3	7014.500	52.77	-5.54	68.2	15.43	Peak	108.00	150	Vertical	Pass
3**	7014.500	44.19	-5.54	--	-44.19	AV	108.00	150	Vertical	N/A
4	10480.000	45.72	-4.57	68.2	22.48	Peak	72.00	150	Vertical	Pass
4**	10480.000	38.52	-4.57	--	-38.52	AV	72.00	150	Vertical	N/A
5	15720.000	46.53	-2.41	74.0	27.47	Peak	72.00	150	Vertical	Pass
5**	15720.000	40.36	-2.41	54.0	13.64	AV	72.00	150	Vertical	Pass
6	17475.000	52.95	1.52	68.2	15.25	Peak	360.00	150	Vertical	Pass
6**	17475.000	45.13	1.52	--	-45.13	AV	360.00	150	Vertical	N/A

IEEE 802.11a-CH48 5240MHz

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2220.700	41.03	-19.77	74.0	32.97	Peak	36.00	150	Horizontal	Pass
1**	2220.700	30.87	-19.77	54.0	23.13	AV	36.00	150	Horizontal	Pass
2	5072.250	50.12	-9.62	74.0	23.88	Peak	36.00	150	Horizontal	Pass
2**	5072.250	40.55	-9.62	54.0	13.45	AV	36.00	150	Horizontal	Pass
3	7014.500	53.85	-5.54	68.2	14.35	Peak	144.00	150	Horizontal	Pass
3**	7014.500	43.72	-5.54	--	-43.72	AV	144.00	150	Horizontal	N/A
4	10480.000	44.46	-4.57	68.2	23.74	Peak	252.00	150	Horizontal	Pass
4**	10480.000	38.67	-4.57	--	-38.67	AV	252.00	150	Horizontal	N/A
5	15720.000	46.45	-2.41	74.0	27.55	Peak	36.00	150	Horizontal	Pass
5**	15720.000	40.46	-2.41	54.0	13.54	AV	36.00	150	Horizontal	Pass
6	17921.776	52.72	1.01	74.0	21.28	Peak	360.00	150	Horizontal	Pass
6**	17921.776	42.95	1.01	54.0	11.05	AV	360.00	150	Horizontal	Pass

Radiated Emissions Above 1GHz - IEEE 802.11a (U-NII-3)

IEEE 802.11a-CH149 5745MHz										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2178.100	41.85	-19.94	68.2	26.35	Peak	72.00	150	Horizontal	Pass
1**	2178.100	31.31	-19.94	--	-31.31	AV	72.00	150	Horizontal	N/A
2	5116.500	48.33	-10.60	74.0	25.67	Peak	72.00	150	Horizontal	Pass
2**	5116.500	39.57	-10.60	54.0	14.43	AV	72.00	150	Horizontal	Pass
3	7086.500	51.38	-7.10	68.2	16.82	Peak	288.00	150	Horizontal	Pass
3**	7086.500	41.74	-7.10	--	-41.74	AV	288.00	150	Horizontal	N/A
4	11490.000	43.89	-5.05	74.0	30.11	Peak	288.00	150	Horizontal	Pass
4**	11490.000	37.00	-5.05	54.0	17.00	AV	288.00	150	Horizontal	Pass
5	17235.000	48.50	0.73	68.2	19.70	Peak	324.00	150	Horizontal	Pass
5**	17235.000	41.92	0.73	--	-41.92	AV	324.00	150	Horizontal	N/A
6	17918.886	52.39	0.82	74.0	21.61	Peak	108.00	150	Horizontal	Pass
6**	17918.886	44.16	0.82	54.0	9.84	AV	108.00	150	Horizontal	Pass

IEEE 802.11a-CH149 5745MHz										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1867.500	42.80	-22.57	68.2	25.40	Peak	324.00	150	Vertical	Pass
1**	1867.500	29.16	-22.57	--	-29.16	AV	324.00	150	Vertical	N/A
2	5114.000	48.69	-10.60	74.0	25.31	Peak	324.00	150	Vertical	Pass
2**	5114.000	39.33	-10.60	54.0	14.67	AV	324.00	150	Vertical	Pass
3	7025.000	51.91	-6.94	68.2	16.29	Peak	108.00	150	Vertical	Pass
3**	7025.000	42.09	-6.94	--	-42.09	AV	108.00	150	Vertical	N/A
4	11490.000	44.22	-5.05	74.0	29.78	Peak	216.00	150	Vertical	Pass
4**	11490.000	36.98	-5.05	54.0	17.02	AV	216.00	150	Vertical	Pass
5	17235.000	48.50	0.73	68.2	19.70	Peak	144.00	150	Vertical	Pass
5**	17235.000	41.53	0.73	--	-41.53	AV	144.00	150	Vertical	N/A
6	17937.263	52.76	1.56	74.0	21.24	Peak	108.00	150	Vertical	Pass
6**	17937.263	43.46	1.56	54.0	10.54	AV	108.00	150	Vertical	Pass

IEEE 802.11a-CH157 5785MHz										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2238.100	42.37	-19.55	74.0	31.63	Peak	72.00	150	Vertical	Pass
1**	2238.100	31.60	-19.55	54.0	22.40	AV	72.00	150	Vertical	Pass
2	5142.250	48.01	-10.40	74.0	25.99	Peak	108.00	150	Vertical	Pass
2**	5142.250	39.06	-10.40	54.0	14.94	AV	108.00	150	Vertical	Pass
3	7961.750	51.61	-7.31	68.2	16.59	Peak	324.00	150	Vertical	Pass
3**	7961.750	41.26	-7.31	--	-41.26	AV	324.00	150	Vertical	N/A
4	11570.000	45.66	-4.51	74.0	28.34	Peak	288.00	150	Vertical	Pass
4**	11570.000	38.56	-4.51	54.0	15.44	AV	288.00	150	Vertical	Pass
5	17355.000	48.71	0.74	68.2	19.49	Peak	360.00	150	Vertical	Pass
5**	17355.000	41.72	0.74	--	-41.72	AV	360.00	150	Vertical	N/A
6	17928.073	52.32	1.50	74.0	21.68	Peak	360.00	150	Vertical	Pass
6**	17928.073	43.49	1.50	54.0	10.51	AV	360.00	150	Vertical	Pass

IEEE 802.11a-CH157 5785MHz

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2320.100	42.61	-19.47	74.0	31.39	Peak	108.00	150	Horizontal	Pass
1**	2320.100	31.12	-19.47	54.0	22.88	AV	108.00	150	Horizontal	Pass
2	5149.000	48.10	-10.33	74.0	25.90	Peak	360.00	150	Horizontal	Pass
2**	5149.000	39.21	-10.33	54.0	14.79	AV	360.00	150	Horizontal	Pass
3	7884.000	51.34	-7.14	68.2	16.86	Peak	360.00	150	Horizontal	Pass
3**	7884.000	42.16	-7.14	--	-42.16	AV	360.00	150	Horizontal	N/A
4	11570.000	45.62	-4.51	74.0	28.38	Peak	324.00	150	Horizontal	Pass
4**	11570.000	37.89	-4.51	54.0	16.11	AV	324.00	150	Horizontal	Pass
5	17355.000	49.05	0.74	68.2	19.15	Peak	252.00	150	Horizontal	Pass
5**	17355.000	40.77	0.74	--	-40.77	AV	252.00	150	Horizontal	N/A
6	17477.886	52.98	1.50	68.2	15.22	Peak	360.00	150	Horizontal	Pass
6**	17477.886	42.91	1.50	--	-42.91	AV	360.00	150	Horizontal	N/A

IEEE 802.11a-CH165 5825MHz

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2186.400	41.47	-19.85	68.2	26.73	Peak	324.00	150	Horizontal	Pass
1**	2186.400	31.06	-19.85	--	-31.06	AV	324.00	150	Horizontal	N/A
2	4755.750	48.60	-11.34	74.0	25.40	Peak	180.00	150	Horizontal	Pass
2**	4755.750	38.57	-11.34	54.0	15.43	AV	180.00	150	Horizontal	Pass
3	7015.000	51.27	-6.94	68.2	16.93	Peak	144.00	150	Horizontal	Pass
3**	7015.000	42.50	-6.94	--	-42.50	AV	144.00	150	Horizontal	N/A
4	11650.000	44.04	-3.75	74.0	29.96	Peak	252.00	150	Horizontal	Pass
4**	11650.000	38.08	-3.75	54.0	15.92	AV	252.00	150	Horizontal	Pass
5	17475.000	50.07	1.53	68.2	18.13	Peak	72.00	150	Horizontal	Pass
5**	17475.000	42.80	1.53	--	-42.80	AV	72.00	150	Horizontal	N/A
6	17478.937	52.88	1.49	68.2	15.32	Peak	324.00	150	Horizontal	Pass
6**	17478.937	43.16	1.49	--	-43.16	AV	324.00	150	Horizontal	N/A

IEEE 802.11a-CH165 5825MHz

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2305.300	41.71	-19.39	68.2	26.49	Peak	180.00	150	Vertical	Pass
1**	2305.300	30.97	-19.39	--	-30.97	AV	180.00	150	Vertical	N/A
2	5126.750	48.70	-10.56	74.0	25.30	Peak	180.00	150	Vertical	Pass
2**	5126.750	39.95	-10.56	54.0	14.05	AV	180.00	150	Vertical	Pass
3	7668.250	51.52	-6.97	74.0	22.48	Peak	252.00	150	Vertical	Pass
3**	7668.250	41.86	-6.97	54.0	12.14	AV	252.00	150	Vertical	Pass
4	11650.000	45.01	-3.75	74.0	28.99	Peak	36.00	150	Vertical	Pass
4**	11650.000	38.31	-3.75	54.0	15.69	AV	36.00	150	Vertical	Pass
5	17475.000	48.67	1.53	68.2	19.53	Peak	216.00	150	Vertical	Pass
5**	17475.000	42.10	1.53	--	-42.10	AV	216.00	150	Vertical	N/A
6	17483.137	52.31	1.35	68.2	15.89	Peak	144.00	150	Vertical	Pass
6**	17483.137	43.09	1.35	--	-43.09	AV	144.00	150	Vertical	N/A

Radiated Emissions Above 1GHz-IEEE 802.11n HT20 (U-NII-1)

IEEE 802.11n HT20-CH36 5180MHz										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2271.800	42.29	-19.34	74.0	31.71	Peak	216.00	150	Vertical	Pass
1**	2271.800	31.79	-19.34	54.0	22.21	AV	216.00	150	Vertical	Pass
2	5142.500	50.95	-8.55	74.0	23.05	Peak	72.00	150	Vertical	Pass
2**	5142.500	40.87	-8.55	54.0	13.13	AV	72.00	150	Vertical	Pass
3	6960.000	52.58	-6.92	68.2	15.62	Peak	144.00	150	Vertical	Pass
3**	6960.000	42.37	-6.92	--	-42.37	AV	144.00	150	Vertical	N/A
4	10360.00	44.61	-5.14	68.2	23.59	Peak	108.00	150	Vertical	Pass
4**	10360.00	37.43	-5.14	--	-37.43	AV	108.00	150	Vertical	N/A
5	15540.000	44.65	-3.05	74.0	29.35	Peak	360.00	150	Vertical	Pass
5**	15540.000	39.18	-3.05	54.0	14.82	AV	360.00	150	Vertical	Pass
6	17920.989	52.78	0.95	74.0	21.22	Peak	288.00	150	Vertical	Pass
6**	17920.989	43.05	0.95	54.0	10.95	AV	288.00	150	Vertical	Pass

IEEE 802.11n HT20-CH36 5180MHz										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1327.500	40.91	-23.87	74.0	33.09	Peak	36.00	150	Horizontal	Pass
1**	1327.500	32.60	-23.87	54.0	21.40	AV	36.00	150	Horizontal	Pass
2	5097.000	50.09	-9.24	74.0	23.91	Peak	72.00	150	Horizontal	Pass
2**	5097.000	39.74	-9.24	54.0	14.26	AV	72.00	150	Horizontal	Pass
3	7007.250	52.68	-5.54	68.2	15.52	Peak	360.00	150	Horizontal	Pass
3**	7007.250	44.04	-5.54	--	-44.04	AV	360.00	150	Horizontal	N/A
4	10360.00	45.06	-5.14	68.2	23.14	Peak	36.00	150	Horizontal	Pass
4**	10360.00	37.37	-5.14	--	-37.37	AV	36.00	150	Horizontal	N/A
5	15540.000	46.50	-3.05	74.0	27.50	Peak	360.00	150	Horizontal	Pass
5**	15540.000	38.95	-3.05	54.0	15.05	AV	360.00	150	Horizontal	Pass
6	17478.412	52.84	1.49	68.2	15.36	Peak	180.00	150	Horizontal	Pass
6**	17478.412	43.06	1.49	--	-43.06	AV	180.00	150	Horizontal	N/A

IEEE 802.11n HT20-CH42 5220MHz										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2169.200	40.54	-20.11	68.2	27.66	Peak	360.00	150	Horizontal	Pass
1**	2169.200	30.49	-20.11	--	-30.49	AV	360.00	150	Horizontal	N/A
2	5143.500	50.39	-8.54	74.0	23.61	Peak	288.00	150	Horizontal	Pass
2**	5143.500	40.84	-8.54	54.0	13.16	AV	288.00	150	Horizontal	Pass
3	7151.000	52.65	-6.71	68.2	15.55	Peak	144.00	150	Horizontal	Pass
3**	7151.000	42.98	-6.71	--	-42.98	AV	144.00	150	Horizontal	N/A
4	10440.000	43.54	-5.20	68.2	24.66	Peak	216.00	150	Horizontal	Pass
4**	10440.000	38.36	-5.20	--	-38.36	AV	216.00	150	Horizontal	N/A
5	15660.000	44.91	-2.47	74.0	29.09	Peak	180.00	150	Horizontal	Pass
5**	15660.000	39.40	-2.47	54.0	14.60	AV	180.00	150	Horizontal	Pass
6	17941.199	52.71	1.47	74.0	21.29	Peak	144.00	150	Horizontal	Pass
6**	17941.199	43.25	1.47	54.0	10.75	AV	144.00	150	Horizontal	Pass

IEEE 802.11n HT20-CH42 5220MHz										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2383.900	40.68	-19.28	74.0	33.32	Peak	36.00	150	Vertical	Pass
1**	2383.900	31.05	-19.28	54.0	22.95	AV	36.00	150	Vertical	Pass
2	5115.000	50.10	-8.92	74.0	23.90	Peak	216.00	150	Vertical	Pass
2**	5115.000	41.03	-8.92	54.0	12.97	AV	216.00	150	Vertical	Pass
3	6900.750	52.64	-7.49	68.2	15.56	Peak	144.00	150	Vertical	Pass
3**	6900.750	41.65	-7.49	--	-41.65	AV	144.00	150	Vertical	N/A
4	10440.000	43.83	-5.20	68.2	24.37	Peak	360.00	150	Vertical	Pass
4**	10440.000	37.78	-5.20	--	-37.78	AV	360.00	150	Vertical	N/A
5	15660.000	44.90	-2.47	74.0	29.10	Peak	324.00	150	Vertical	Pass
5**	15660.000	38.97	-2.47	54.0	15.03	AV	324.00	150	Vertical	Pass
6	17954.589	52.58	0.76	74.0	21.42	Peak	252.00	150	Vertical	Pass
6**	17954.589	42.49	0.76	54.0	11.51	AV	252.00	150	Vertical	Pass

IEEE 802.11n HT20-CH48 5240MHz										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2274.100	42.58	-19.37	74.0	31.42	Peak	324.00	150	Vertical	Pass
1**	2274.100	31.70	-19.37	54.0	22.30	AV	324.00	150	Vertical	Pass
2	5115.500	49.86	-8.92	74.0	24.14	Peak	288.00	150	Vertical	Pass
2**	5115.500	40.57	-8.92	54.0	13.43	AV	288.00	150	Vertical	Pass
3	7035.000	52.36	-5.50	68.2	15.84	Peak	288.00	150	Vertical	Pass
3**	7035.000	43.44	-5.50	--	-43.44	AV	288.00	150	Vertical	N/A
4	10480.000	46.05	-4.57	68.2	22.15	Peak	360.00	150	Vertical	Pass
4**	10480.000	39.61	-4.57	--	-39.61	AV	360.00	150	Vertical	N/A
5	15720.000	46.42	-2.41	74.0	27.58	Peak	216.00	150	Vertical	Pass
5**	15720.000	41.41	-2.41	54.0	12.59	AV	216.00	150	Vertical	Pass
6	17929.650	52.41	1.62	74.0	21.59	Peak	324.00	150	Vertical	Pass
6**	17929.650	43.51	1.62	54.0	10.49	AV	324.00	150	Vertical	Pass

IEEE 802.11n HT20-CH48 5240MHz										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2209.700	40.68	-19.82	74.0	33.32	Peak	108.00	150	Horizontal	Pass
1**	2209.700	32.05	-19.82	54.0	21.95	AV	108.00	150	Horizontal	Pass
2	5134.750	50.55	-8.65	74.0	23.45	Peak	288.00	150	Horizontal	Pass
2**	5134.750	41.97	-8.65	54.0	12.03	AV	288.00	150	Horizontal	Pass
3	7017.000	52.54	-5.55	68.2	15.66	Peak	324.00	150	Horizontal	Pass
3**	7017.000	43.11	-5.55	--	-43.11	AV	324.00	150	Horizontal	N/A
4	10480.000	45.62	-4.57	68.2	22.58	Peak	36.00	150	Horizontal	Pass
4**	10480.000	39.14	-4.57	--	-39.14	AV	36.00	150	Horizontal	N/A
5	15720.000	46.87	-2.41	74.0	27.13	Peak	144.00	150	Horizontal	Pass
5**	15720.000	39.88	-2.41	54.0	14.12	AV	144.00	150	Horizontal	Pass
6	17932.276	52.27	1.63	74.0	21.73	Peak	216.00	150	Horizontal	Pass
6**	17932.276	44.70	1.63	54.0	9.30	AV	216.00	150	Horizontal	Pass

Radiated Emissions Above 1GHz - IEEE 802.11n HT20 (U-NII-3)

IEEE 802.11n HT20-CH149 5745MHz										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2251.500	41.06	-19.53	74.0	32.94	Peak	36.00	150	Horizontal	Pass
1**	2251.500	31.54	-19.53	54.0	22.46	AV	36.00	150	Horizontal	Pass
2	5134.250	48.42	-10.49	74.0	25.58	Peak	36.00	150	Horizontal	Pass
2**	5134.250	39.80	-10.49	54.0	14.20	AV	36.00	150	Horizontal	Pass
3	7012.000	52.32	-6.93	68.2	15.88	Peak	216.00	150	Horizontal	Pass
3**	7012.000	42.94	-6.93	--	-42.94	AV	216.00	150	Horizontal	N/A
4	11490.000	43.33	-5.05	74.0	30.67	Peak	360.00	150	Horizontal	Pass
4**	11490.000	37.44	-5.05	54.0	16.56	AV	360.00	150	Horizontal	Pass
5	17235.000	48.61	0.73	68.2	19.59	Peak	252.00	150	Horizontal	Pass
5**	17235.000	41.27	0.73	--	-41.27	AV	252.00	150	Horizontal	N/A
6	17932.276	53.37	1.63	74.0	20.63	Peak	324.00	150	Horizontal	Pass
6**	17932.276	43.82	1.63	54.0	10.18	AV	324.00	150	Horizontal	Pass

IEEE 802.11n HT20-CH149 5745MHz										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1902.900	42.56	-22.58	68.2	25.64	Peak	108.00	150	Vertical	Pass
1**	1902.900	33.76	-22.58	--	-33.76	AV	108.00	150	Vertical	N/A
2	5111.000	48.80	-10.58	74.0	25.20	Peak	108.00	150	Vertical	Pass
2**	5111.000	39.74	-10.58	54.0	14.26	AV	108.00	150	Vertical	Pass
3	7994.000	52.10	-6.62	68.2	16.10	Peak	144.00	150	Vertical	Pass
3**	7994.000	42.46	-6.62	--	-42.46	AV	144.00	150	Vertical	N/A
4	11490.000	42.52	-5.05	74.0	31.48	Peak	252.00	150	Vertical	Pass
4**	11490.000	36.57	-5.05	54.0	17.43	AV	252.00	150	Vertical	Pass
5	17235.000	47.89	0.73	68.2	20.31	Peak	288.00	150	Vertical	Pass
5**	17235.000	41.45	0.73	--	-41.45	AV	288.00	150	Vertical	N/A
6	17932.012	52.73	1.63	74.0	21.27	Peak	216.00	150	Vertical	Pass
6**	17932.012	43.65	1.63	54.0	10.35	AV	216.00	150	Vertical	Pass

IEEE 802.11n HT20-CH157 5785MHz										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1895.000	43.31	-22.58	68.2	24.89	Peak	288.00	150	Vertical	Pass
1**	1895.000	30.69	-22.58	--	-30.69	AV	288.00	150	Vertical	N/A
2	5125.000	48.62	-10.57	74.0	25.38	Peak	216.00	150	Vertical	Pass
2**	5125.000	39.50	-10.57	54.0	14.50	AV	216.00	150	Vertical	Pass
3	7652.750	51.36	-7.30	74.0	22.64	Peak	180.00	150	Vertical	Pass
3**	7652.750	41.52	-7.30	54.0	12.48	AV	180.00	150	Vertical	Pass
4	11570.000	44.73	-4.51	74.0	29.27	Peak	180.00	150	Vertical	Pass
4**	11570.000	37.81	-4.51	54.0	16.19	AV	180.00	150	Vertical	Pass
5	17355.000	47.47	0.74	68.2	20.73	Peak	144.00	150	Vertical	Pass
5**	17355.000	41.97	0.74	--	-41.97	AV	144.00	150	Vertical	N/A
6	17912.850	52.83	0.52	74.0	21.17	Peak	72.00	150	Vertical	Pass
6**	17912.850	43.18	0.52	54.0	10.82	AV	72.00	150	Vertical	Pass

IEEE 802.11n HT20-CH157 5785MHz										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2321.400	41.31	-19.48	74.0	32.69	Peak	252.00	150	Horizontal	Pass
1**	2321.400	31.37	-19.48	54.0	22.63	AV	252.00	150	Horizontal	Pass
2	5141.500	48.95	-10.40	74.0	25.05	Peak	180.00	150	Horizontal	Pass
2**	5141.500	39.47	-10.40	54.0	14.53	AV	180.00	150	Horizontal	Pass
3	7083.500	51.26	-7.15	68.2	16.94	Peak	324.00	150	Horizontal	Pass
3**	7083.500	42.57	-7.15	--	-42.57	AV	324.00	150	Horizontal	N/A
4	11570.000	45.27	-4.51	74.0	28.73	Peak	252.00	150	Horizontal	Pass
4**	11570.000	37.73	-4.51	54.0	16.27	AV	252.00	150	Horizontal	Pass
5	17355.000	47.91	0.74	68.2	20.29	Peak	360.00	150	Horizontal	Pass
5**	17355.000	40.69	0.74	--	-40.69	AV	360.00	150	Horizontal	N/A
6	17931.225	52.84	1.64	74.0	21.16	Peak	72.00	150	Horizontal	Pass
6**	17931.225	43.90	1.64	54.0	10.10	AV	72.00	150	Horizontal	Pass

IEEE 802.11n HT20-CH165 5825MHz										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1328.700	41.66	-23.85	74.0	32.34	Peak	108.00	150	Horizontal	Pass
1**	1328.700	32.35	-23.85	54.0	21.65	AV	108.00	150	Horizontal	Pass
2	5081.000	48.73	-10.92	74.0	25.27	Peak	288.00	150	Horizontal	Pass
2**	5081.000	38.54	-10.92	54.0	15.46	AV	288.00	150	Horizontal	Pass
3	7994.500	51.33	-6.62	68.2	16.87	Peak	324.00	150	Horizontal	Pass
3**	7994.500	41.57	-6.62	--	-41.57	AV	324.00	150	Horizontal	N/A
4	11650.000	45.79	-3.75	74.0	28.21	Peak	108.00	150	Horizontal	Pass
4**	11650.000	37.75	-3.75	54.0	16.25	AV	108.00	150	Horizontal	Pass
5	17475.000	49.01	1.53	68.2	19.19	Peak	216.00	150	Horizontal	Pass
5**	17475.000	44.16	1.53	--	-44.16	AV	216.00	150	Horizontal	N/A
6	17486.287	53.14	1.23	68.2	15.06	Peak	216.00	150	Horizontal	Pass
6**	17486.287	43.51	1.23	--	-43.51	AV	216.00	150	Horizontal	N/A

IEEE 802.11n HT20CH165 5825MHz										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1817.100	41.18	-23.04	68.2	27.02	Peak	216.00	150	Vertical	Pass
1**	1817.100	28.50	-23.04	--	-28.50	AV	216.00	150	Vertical	N/A
2	5056.000	49.23	-10.70	74.0	24.77	Peak	108.00	150	Vertical	Pass
2**	5056.000	38.34	-10.70	54.0	15.66	AV	108.00	150	Vertical	Pass
3	7995.250	51.45	-6.61	68.2	16.75	Peak	216.00	150	Vertical	Pass
3**	7995.250	42.77	-6.61	--	-42.77	AV	216.00	150	Vertical	N/A
4	11650.000	45.15	-3.75	74.0	28.85	Peak	216.00	150	Vertical	Pass
4**	11650.000	37.97	-3.75	54.0	16.03	AV	216.00	150	Vertical	Pass
5	17475.000	49.33	1.53	68.2	18.87	Peak	360.00	150	Vertical	Pass
5**	17475.000	43.93	1.53	--	-43.93	AV	360.00	150	Vertical	N/A
6	17929.386	52.28	1.60	74.0	21.72	Peak	144.00	150	Vertical	Pass
6**	17929.386	43.83	1.60	54.0	10.17	AV	144.00	150	Vertical	Pass

Radiated Emissions Above 1GHz - IEEE 802.11n HT40 (U-NII-1)

IEEE 802.11n HT40-CH38 5190MHz										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1296.600	41.02	-24.06	68.2	27.18	Peak	360.00	150	Vertical	Pass
1**	1296.600	31.29	-24.06	--	-31.29	AV	360.00	150	Vertical	N/A
2	5146.250	51.37	-8.51	74.0	22.63	Peak	72.00	150	Vertical	Pass
2**	5146.250	41.32	-8.51	54.0	12.68	AV	72.00	150	Vertical	Pass
3	6957.500	53.21	-6.89	68.2	14.99	Peak	72.00	150	Vertical	Pass
3**	6957.500	42.68	-6.89	--	-42.68	AV	72.00	150	Vertical	N/A
4	10360.00	43.18	-5.14	68.2	25.02	Peak	360.00	150	Vertical	Pass
4**	10360.00	37.82	-5.14	--	-37.82	AV	360.00	150	Vertical	N/A
5	15540.000	45.37	-3.05	74.0	28.63	Peak	180.00	150	Vertical	Pass
5**	15540.000	38.36	-3.05	54.0	15.64	AV	180.00	150	Vertical	Pass
6	17946.450	52.91	1.26	74.0	21.09	Peak	360.00	150	Vertical	Pass
6**	17946.450	43.58	1.26	54.0	10.42	AV	360.00	150	Vertical	Pass

IEEE 802.11n HT40-CH38 5190MHz										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1881.700	41.28	-22.80	68.2	26.92	Peak	180.00	150	Vertical	Pass
1**	1881.700	29.17	-22.80	--	-29.17	AV	180.00	150	Vertical	N/A
2	5128.250	50.79	-8.77	74.0	23.21	Peak	324.00	150	Vertical	Pass
2**	5128.250	40.78	-8.77	54.0	13.22	AV	324.00	150	Vertical	Pass
3	7060.250	52.49	-6.19	68.2	15.71	Peak	108.00	150	Vertical	Pass
3**	7060.250	44.52	-6.19	--	-44.52	AV	108.00	150	Vertical	N/A
4	10380.000	44.75	-4.95	68.2	23.45	Peak	360.00	150	Vertical	Pass
4**	10380.000	37.95	-4.95	--	-37.95	AV	360.00	150	Vertical	N/A
5	15570.000	46.40	-2.83	74.0	27.60	Peak	36.00	150	Vertical	Pass
5**	15570.000	39.13	-2.83	54.0	14.87	AV	36.00	150	Vertical	Pass
6	17938.313	52.26	1.55	74.0	21.74	Peak	72.00	150	Vertical	Pass
6**	17938.313	43.43	1.55	54.0	10.57	AV	72.00	150	Vertical	Pass

IEEE 802.11n HT40-CH46 5230MHz										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1906.100	40.97	-22.59	68.2	27.23	Peak	72.00	150	Vertical	Pass
1**	1906.100	28.97	-22.59	--	-28.97	AV	72.00	150	Vertical	N/A
2	5131.500	49.65	-8.71	74.0	24.35	Peak	252.00	150	Vertical	Pass
2**	5131.500	40.58	-8.71	54.0	13.42	AV	252.00	150	Vertical	Pass
3	7614.750	52.33	-6.39	74.0	21.67	Peak	324.00	150	Vertical	Pass
3**	7614.750	42.41	-6.39	54.0	11.59	AV	324.00	150	Vertical	Pass
4	10460.000	44.70	-5.15	68.2	23.50	Peak	360.00	150	Vertical	Pass
4**	10460.000	37.67	-5.15	--	-37.67	AV	360.00	150	Vertical	N/A
5	15690.000	47.15	-2.50	74.0	26.85	Peak	108.00	150	Vertical	Pass
5**	15690.000	40.04	-2.50	54.0	13.96	AV	108.00	150	Vertical	Pass
6	17472.637	52.43	1.54	68.2	15.77	Peak	360.00	150	Vertical	Pass
6**	17472.637	42.72	1.54	--	-42.72	AV	360.00	150	Vertical	N/A

IEEE 802.11n HT40-CH46 5230MHz										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2382.400	40.66	-19.28	74.0	33.34	Peak	72.00	150	Horizontal	Pass
1**	2382.400	30.94	-19.28	54.0	23.06	AV	72.00	150	Horizontal	Pass
2	5142.250	49.92	-8.55	74.0	24.08	Peak	360.00	150	Horizontal	Pass
2**	5142.250	42.50	-8.55	54.0	11.50	AV	360.00	150	Horizontal	Pass
3	7037.250	52.84	-5.47	68.2	15.36	Peak	252.00	150	Horizontal	Pass
3**	7037.250	43.85	-5.47	--	-43.85	AV	252.00	150	Horizontal	N/A
4	10460.000	44.20	-5.15	68.2	24.00	Peak	180.00	150	Horizontal	Pass
4**	10460.000	37.77	-5.15	--	-37.77	AV	180.00	150	Horizontal	N/A
5	15690.000	46.64	-2.50	74.0	27.36	Peak	288.00	150	Horizontal	Pass
5**	15690.000	39.73	-2.50	54.0	14.27	AV	288.00	150	Horizontal	Pass
6	17931.749	52.49	1.63	74.0	21.51	Peak	324.00	150	Horizontal	Pass
6**	17931.749	43.89	1.63	54.0	10.11	AV	324.00	150	Horizontal	Pass

Radiated Emissions Above 1GHz - IEEE 802.11n HT40 (U-NII-3)

IEEE 802.11n HT40-CH151 5755MHz										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2189.500	41.16	-19.81	68.2	27.04	Peak	108.00	150	Horizontal	Pass
1**	2189.500	31.59	-19.81	--	-31.59	AV	108.00	150	Horizontal	N/A
2	5040.750	48.44	-10.83	74.0	25.56	Peak	216.00	150	Horizontal	Pass
2**	5040.750	39.01	-10.83	54.0	14.99	AV	216.00	150	Horizontal	Pass
3	7026.750	51.61	-6.94	68.2	16.59	Peak	324.00	150	Horizontal	Pass
3**	7026.750	42.05	-6.94	--	-42.05	AV	324.00	150	Horizontal	N/A
4	11510.000	42.47	-5.11	74.0	31.53	Peak	144.00	150	Horizontal	Pass
4**	11510.000	36.88	-5.11	54.0	17.12	AV	144.00	150	Horizontal	Pass
5	17265.000	45.74	-0.05	68.2	22.46	Peak	360.00	150	Horizontal	Pass
5**	17265.000	40.10	-0.05	--	-40.10	AV	360.00	150	Horizontal	N/A
6	17469.225	52.56	1.52	68.2	15.64	Peak	216.00	150	Horizontal	Pass
6**	17469.225	42.61	1.52	--	-42.61	AV	216.00	150	Horizontal	N/A

IEEE 802.11n HT40-CH151 5755MHz										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2192.700	42.23	-19.76	68.2	25.97	Peak	36.00	150	Vertical	Pass
1**	2192.700	31.15	-19.76	--	-31.15	AV	36.00	150	Vertical	N/A
2	5122.250	48.47	-10.59	74.0	25.53	Peak	360.00	150	Vertical	Pass
2**	5122.250	39.05	-10.59	54.0	14.95	AV	360.00	150	Vertical	Pass
3	7026.750	51.72	-6.94	68.2	16.48	Peak	252.00	150	Vertical	Pass
3**	7026.750	42.12	-6.94	--	-42.12	AV	252.00	150	Vertical	N/A
4	11510.000	42.88	-5.11	74.0	31.12	Peak	180.00	150	Vertical	Pass
4**	11510.000	36.37	-5.11	54.0	17.63	AV	180.00	150	Vertical	Pass
5	17265.000	45.93	-0.05	68.2	22.27	Peak	36.00	150	Vertical	Pass
5**	17265.000	39.66	-0.05	--	-39.66	AV	36.00	150	Vertical	N/A
6	17935.688	52.10	1.59	74.0	21.90	Peak	360.00	150	Vertical	Pass
6**	17935.688	42.99	1.59	54.0	11.01	AV	360.00	150	Vertical	Pass

IEEE 802.11n HT40-CH159 5795MHz										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2254.800	41.70	-19.50	74.0	32.30	Peak	360.00	150	Vertical	Pass
1**	2254.800	31.08	-19.50	54.0	22.92	AV	360.00	150	Vertical	Pass
2	5135.000	48.18	-10.48	74.0	25.82	Peak	252.00	150	Vertical	Pass
2**	5135.000	39.60	-10.48	54.0	14.40	AV	252.00	150	Vertical	Pass
3	7986.500	51.42	-6.69	68.2	16.78	Peak	324.00	150	Vertical	Pass
3**	7986.500	43.14	-6.69	--	-43.14	AV	324.00	150	Vertical	N/A
4	11590.000	45.33	-4.32	74.0	28.67	Peak	360.00	150	Vertical	Pass
4**	11590.000	38.57	-4.32	54.0	15.43	AV	360.00	150	Vertical	Pass
5	17385.000	47.96	0.03	68.2	20.24	Peak	144.00	150	Vertical	Pass
5**	17385.000	41.29	0.03	--	-41.29	AV	144.00	150	Vertical	N/A
6	17479.725	52.40	1.48	68.2	15.80	Peak	216.00	150	Vertical	Pass
6**	17479.725	44.24	1.48	--	-44.24	AV	216.00	150	Vertical	N/A

IEEE 802.11n HT40-CH159 5795MHz										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2219.000	40.95	-19.50	74.0	33.05	Peak	360.00	150	Horizontal	Pass
1**	2219.000	30.94	-19.50	54.0	23.06	AV	360.00	150	Horizontal	Pass
2	5048.750	48.48	-10.78	74.0	25.52	Peak	288.00	150	Horizontal	Pass
2**	5048.750	38.20	-10.78	54.0	15.80	AV	288.00	150	Horizontal	Pass
3	7707.500	51.70	-7.02	74.0	22.30	Peak	324.00	150	Horizontal	Pass
3**	7707.500	42.08	-7.02	54.0	11.92	AV	324.00	150	Horizontal	Pass
4	11590.000	45.28	-4.32	74.0	28.72	Peak	180.00	150	Horizontal	Pass
4**	11590.000	39.94	-4.32	54.0	14.06	AV	180.00	150	Horizontal	Pass
5	17385.000	48.00	0.03	68.2	20.20	Peak	72.00	150	Horizontal	Pass
5**	17385.000	41.99	0.03	--	-41.99	AV	72.00	150	Horizontal	N/A
6	17944.613	52.82	1.33	74.0	21.18	Peak	108.00	150	Horizontal	Pass
6**	17944.613	43.08	1.33	54.0	10.92	AV	108.00	150	Horizontal	Pass

Radiated Emissions Above 1GHz - IEEE 802.11ac VHT20 (U-NII-1)

IEEE 802.11ac VHT20-CH36 5180MHz										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2201.400	40.31	-19.88	74.0	33.69	Peak	360.00	150	Horizontal	Pass
1**	2201.400	30.38	-19.88	54.0	23.62	AV	360.00	150	Horizontal	Pass
2	5132.000	50.28	-8.70	74.0	23.72	Peak	72.00	150	Horizontal	Pass
2**	5132.000	41.48	-8.70	54.0	12.52	AV	72.00	150	Horizontal	Pass
3	7034.000	52.72	-5.51	68.2	15.48	Peak	180.00	150	Horizontal	Pass
3**	7034.000	43.30	-5.51	--	-43.30	AV	180.00	150	Horizontal	N/A
4	10360.00	45.03	-5.14	68.2	23.17	Peak	288.00	150	Horizontal	Pass
4**	10360.00	38.70	-5.14	--	-38.70	AV	288.00	150	Horizontal	N/A
5	15540.000	45.25	-3.05	74.0	28.75	Peak	288.00	150	Horizontal	Pass
5**	15540.000	38.84	-3.05	54.0	15.16	AV	288.00	150	Horizontal	Pass
6	17478.676	52.47	1.49	68.2	15.73	Peak	324.00	150	Horizontal	Pass
6**	17478.676	43.29	1.49	--	-43.29	AV	324.00	150	Horizontal	N/A

IEEE 802.11ac VHT20-CH36 5180MHz										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1868.900	41.55	-22.82	68.2	26.65	Peak	252.00	150	Vertical	Pass
1**	1868.900	29.60	-22.82	--	-29.60	AV	252.00	150	Vertical	N/A
2	5148.750	50.33	-8.49	74.0	23.67	Peak	180.00	150	Vertical	Pass
2**	5148.750	41.81	-8.49	54.0	12.19	AV	180.00	150	Vertical	Pass
3	7014.000	52.23	-5.53	68.2	15.97	Peak	288.00	150	Vertical	Pass
3**	7014.000	42.83	-5.53	--	-42.83	AV	288.00	150	Vertical	N/A
4	10360.00	44.75	-5.14	68.2	23.45	Peak	216.00	150	Vertical	Pass
4**	10360.00	38.58	-5.14	--	-38.58	AV	216.00	150	Vertical	N/A
5	15540.000	45.00	-3.05	74.0	29.00	Peak	72.00	150	Vertical	Pass
5**	15540.000	39.86	-3.05	54.0	14.14	AV	72.00	150	Vertical	Pass
6	17927.551	52.56	1.46	74.0	21.44	Peak	36.00	150	Vertical	Pass
6**	17927.551	43.33	1.46	54.0	10.67	AV	36.00	150	Vertical	Pass

IEEE 802.11ac VHT20-CH42 5220MHz										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1331.700	42.02	-23.91	74.0	31.98	Peak	36.00	150	Vertical	Pass
1**	1331.700	33.48	-23.91	54.0	20.52	AV	36.00	150	Vertical	Pass
2	5143.000	49.72	-8.55	74.0	24.28	Peak	180.00	150	Vertical	Pass
2**	5143.000	40.69	-8.55	54.0	13.31	AV	180.00	150	Vertical	Pass
3	7648.250	53.06	-6.36	74.0	20.94	Peak	252.00	150	Vertical	Pass
3**	7648.250	43.25	-6.36	54.0	10.75	AV	252.00	150	Vertical	Pass
4	10440.000	44.93	-5.20	68.2	23.27	Peak	180.00	150	Vertical	Pass
4**	10440.000	38.68	-5.20	--	-38.68	AV	180.00	150	Vertical	N/A
5	15660.000	45.95	-2.47	74.0	28.05	Peak	108.00	150	Vertical	Pass
5**	15660.000	38.74	-2.47	54.0	15.26	AV	108.00	150	Vertical	Pass
6	17923.613	52.86	1.15	74.0	21.14	Peak	360.00	150	Vertical	Pass
6**	17923.613	43.19	1.15	54.0	10.81	AV	360.00	150	Vertical	Pass

IEEE 802.11ac VHT20-CH42 5220MHz

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2225.000	41.23	-19.78	74.0	32.77	Peak	180.00	150	Horizontal	Pass
1**	2225.000	30.79	-19.78	54.0	23.21	AV	180.00	150	Horizontal	Pass
2	5126.500	49.82	-8.79	74.0	24.18	Peak	360.00	150	Horizontal	Pass
2**	5126.500	40.59	-8.79	54.0	13.41	AV	360.00	150	Horizontal	Pass
3	7023.000	52.11	-5.56	68.2	16.09	Peak	216.00	150	Horizontal	Pass
3**	7023.000	43.23	-5.56	--	-43.23	AV	216.00	150	Horizontal	N/A
4	10440.000	44.35	-5.20	68.2	23.85	Peak	144.00	150	Horizontal	Pass
4**	10440.000	38.12	-5.20	--	-38.12	AV	144.00	150	Horizontal	N/A
5	15660.000	45.40	-2.47	74.0	28.60	Peak	144.00	150	Horizontal	Pass
5**	15660.000	40.24	-2.47	54.0	13.76	AV	144.00	150	Horizontal	Pass
6	17920.199	52.77	0.89	74.0	21.23	Peak	324.00	150	Horizontal	Pass
6**	17920.199	42.85	0.89	54.0	11.15	AV	324.00	150	Horizontal	Pass

IEEE 802.11ac VHT20-CH48 5240MHz

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2296.500	41.09	-19.51	74.0	32.91	Peak	252.00	150	Horizontal	Pass
1**	2296.500	31.49	-19.51	54.0	22.51	AV	252.00	150	Horizontal	Pass
2	5139.750	50.39	-8.58	74.0	23.61	Peak	360.00	150	Horizontal	Pass
2**	5139.750	40.90	-8.58	54.0	13.10	AV	360.00	150	Horizontal	Pass
3	7036.500	52.48	-5.48	68.2	15.72	Peak	360.00	150	Horizontal	Pass
3**	7036.500	43.56	-5.48	--	-43.56	AV	360.00	150	Horizontal	N/A
4	10480.000	44.86	-4.57	68.2	23.34	Peak	252.00	150	Horizontal	Pass
4**	10480.000	38.56	-4.57	--	-38.56	AV	252.00	150	Horizontal	N/A
5	15720.000	46.12	-2.41	74.0	27.88	Peak	36.00	150	Horizontal	Pass
5**	15720.000	39.92	-2.41	54.0	14.08	AV	36.00	150	Horizontal	Pass
6	16774.387	52.40	0.28	68.2	15.80	Peak	180.00	150	Horizontal	Pass
6**	16774.387	42.96	0.28	--	-42.96	AV	180.00	150	Horizontal	N/A

IEEE 802.11ac VHT20-CH48 5240MHz

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1854.100	40.99	-23.02	68.2	27.21	Peak	144.00	150	Vertical	Pass
1**	1854.100	30.11	-23.02	--	-30.11	AV	144.00	150	Vertical	N/A
2	5127.750	50.13	-8.77	74.0	23.87	Peak	252.00	150	Vertical	Pass
2**	5127.750	41.07	-8.77	54.0	12.93	AV	252.00	150	Vertical	Pass
3	7023.250	52.46	-5.56	68.2	15.74	Peak	360.00	150	Vertical	Pass
3**	7023.250	43.13	-5.56	--	-43.13	AV	360.00	150	Vertical	N/A
4	10480.000	44.41	-4.57	68.2	23.79	Peak	252.00	150	Vertical	Pass
4**	10480.000	39.07	-4.57	--	-39.07	AV	252.00	150	Vertical	N/A
5	15720.000	47.19	-2.41	74.0	26.81	Peak	72.00	150	Vertical	Pass
5**	15720.000	40.08	-2.41	54.0	13.92	AV	72.00	150	Vertical	Pass
6	17523.562	51.82	0.99	68.2	16.38	Peak	108.00	150	Vertical	Pass
6**	17523.562	43.33	0.99	--	-43.33	AV	108.00	150	Vertical	N/A

Radiated Emissions Above 1GHz - IEEE 802.11ac VHT20 (U-NII-3)

IEEE 802.11ac VHT20-CH149 5745MHz										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1331.900	42.07	-23.83	74.0	31.93	Peak	360.00	150	Vertical	Pass
1**	1331.900	32.90	-23.83	54.0	21.10	AV	360.00	150	Vertical	Pass
2	4869.750	48.20	-11.15	74.0	25.80	Peak	180.00	150	Vertical	Pass
2**	4869.750	38.24	-11.15	54.0	15.76	AV	180.00	150	Vertical	Pass
3	7907.000	51.60	-7.60	68.2	16.60	Peak	108.00	150	Vertical	Pass
3**	7907.000	41.56	-7.60	--	-41.56	AV	108.00	150	Vertical	N/A
4	11490.000	43.95	-5.05	74.0	30.05	Peak	360.00	150	Vertical	Pass
4**	11490.000	36.50	-5.05	54.0	17.50	AV	360.00	150	Vertical	Pass
5	17235.000	48.32	0.73	68.2	19.88	Peak	288.00	150	Vertical	Pass
5**	17235.000	41.69	0.73	--	-41.69	AV	288.00	150	Vertical	N/A
6	17482.088	51.83	1.39	68.2	16.37	Peak	288.00	150	Vertical	Pass
6**	17482.088	43.05	1.39	--	-43.05	AV	288.00	150	Vertical	N/A

IEEE 802.11ac VHT20-CH149 5745MHz										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2201.300	41.64	-19.65	74.0	32.36	Peak	36.00	150	Horizontal	Pass
1**	2201.300	31.33	-19.65	54.0	22.67	AV	36.00	150	Horizontal	Pass
2	5047.250	48.34	-10.79	74.0	25.66	Peak	108.00	150	Horizontal	Pass
2**	5047.250	39.15	-10.79	54.0	14.85	AV	108.00	150	Horizontal	Pass
3	7078.500	51.65	-7.22	68.2	16.55	Peak	36.00	150	Horizontal	Pass
3**	7078.500	42.19	-7.22	--	-42.19	AV	36.00	150	Horizontal	N/A
4	11490.000	45.24	-5.05	74.0	28.76	Peak	180.00	150	Horizontal	Pass
4**	11490.000	37.10	-5.05	54.0	16.90	AV	180.00	150	Horizontal	Pass
5	17235.000	48.08	0.73	68.2	20.12	Peak	252.00	150	Horizontal	Pass
5**	17235.000	41.38	0.73	--	-41.38	AV	252.00	150	Horizontal	N/A
6	17478.676	52.69	1.49	68.2	15.51	Peak	324.00	150	Horizontal	Pass
6**	17478.676	42.74	1.49	--	-42.74	AV	324.00	150	Horizontal	N/A

IEEE 802.11ac VHT20-CH157 5785MHz										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1331.100	41.20	-23.83	74.0	32.80	Peak	360.00	150	Horizontal	Pass
1**	1331.100	31.88	-23.83	54.0	22.12	AV	360.00	150	Horizontal	Pass
2	4280.000	48.80	-12.59	74.0	25.20	Peak	36.00	150	Horizontal	Pass
2**	4280.000	38.81	-12.59	54.0	15.19	AV	36.00	150	Horizontal	Pass
3	7987.500	51.85	-6.67	68.2	16.35	Peak	360.00	150	Horizontal	Pass
3**	7987.500	42.16	-6.67	--	-42.16	AV	360.00	150	Horizontal	N/A
4	11570.000	45.15	-4.51	74.0	28.85	Peak	252.00	150	Horizontal	Pass
4**	11570.000	37.93	-4.51	54.0	16.07	AV	252.00	150	Horizontal	Pass
5	17355.000	47.92	0.74	68.2	20.28	Peak	216.00	150	Horizontal	Pass
5**	17355.000	41.39	0.74	--	-41.39	AV	216.00	150	Horizontal	N/A
6	17485.763	52.32	1.25	68.2	15.88	Peak	144.00	150	Horizontal	Pass
6**	17485.763	43.89	1.25	--	-43.89	AV	144.00	150	Horizontal	N/A

IEEE 802.11ac VHT20-CH157 5785MHz

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1329.400	42.97	-23.85	74.0	31.03	Peak	288.00	150	Vertical	Pass
1**	1329.400	34.80	-23.85	54.0	19.20	AV	288.00	150	Vertical	Pass
2	4863.250	48.16	-11.39	74.0	25.84	Peak	36.00	150	Vertical	Pass
2**	4863.250	38.38	-11.39	54.0	15.62	AV	36.00	150	Vertical	Pass
3	7076.000	51.93	-7.23	68.2	16.27	Peak	108.00	150	Vertical	Pass
3**	7076.000	41.48	-7.23	--	-41.48	AV	108.00	150	Vertical	N/A
4	11570.000	44.06	-4.51	74.0	29.94	Peak	324.00	150	Vertical	Pass
4**	11570.000	37.73	-4.51	54.0	16.27	AV	324.00	150	Vertical	Pass
5	17355.000	47.71	0.74	68.2	20.49	Peak	72.00	150	Vertical	Pass
5**	17355.000	41.74	0.74	--	-41.74	AV	72.00	150	Vertical	N/A
6	17915.474	52.40	0.65	74.0	21.60	Peak	36.00	150	Vertical	Pass
6**	17915.474	43.04	0.65	54.0	10.96	AV	36.00	150	Vertical	Pass

IEEE 802.11ac VHT20-CH165 5825MHz

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2304.300	43.62	-19.39	68.2	24.58	Peak	180.00	150	Vertical	Pass
1**	2304.300	31.59	-19.39	--	-31.59	AV	180.00	150	Vertical	N/A
2	5049.250	48.25	-10.78	74.0	25.75	Peak	252.00	150	Vertical	Pass
2**	5049.250	38.65	-10.78	54.0	15.35	AV	252.00	150	Vertical	Pass
3	7988.000	51.89	-6.66	68.2	16.31	Peak	360.00	150	Vertical	Pass
3**	7988.000	41.85	-6.66	--	-41.85	AV	360.00	150	Vertical	N/A
4	11650.000	46.72	-3.75	74.0	27.28	Peak	144.00	150	Vertical	Pass
4**	11650.000	37.49	-3.75	54.0	16.51	AV	144.00	150	Vertical	Pass
5	17475.000	49.81	1.53	68.2	18.39	Peak	72.00	150	Vertical	Pass
5**	17475.000	42.91	1.53	--	-42.91	AV	72.00	150	Vertical	N/A
6	17937.263	52.54	1.56	74.0	21.46	Peak	180.00	150	Vertical	Pass
6**	17937.263	43.03	1.56	54.0	10.97	AV	180.00	150	Vertical	Pass

IEEE 802.11ac VHT20-CH165 5825MHz

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2232.900	41.51	-19.54	74.0	32.49	Peak	216.00	150	Horizontal	Pass
1**	2232.900	31.30	-19.54	54.0	22.70	AV	216.00	150	Horizontal	Pass
2	4280.500	48.82	-12.62	74.0	25.18	Peak	324.00	150	Horizontal	Pass
2**	4280.500	38.89	-12.62	54.0	15.11	AV	324.00	150	Horizontal	Pass
3	6628.500	51.55	-7.97	68.2	16.65	Peak	324.00	150	Horizontal	Pass
3**	6628.500	41.47	-7.97	--	-41.47	AV	324.00	150	Horizontal	N/A
4	11650.000	44.55	-3.75	74.0	29.45	Peak	360.00	150	Horizontal	Pass
4**	11650.000	38.64	-3.75	54.0	15.36	AV	360.00	150	Horizontal	Pass
5	17475.000	51.00	1.53	68.2	17.20	Peak	72.00	150	Horizontal	Pass
5**	17475.000	42.98	1.53	--	-42.98	AV	72.00	150	Horizontal	N/A
6	17929.386	52.32	1.60	74.0	21.68	Peak	360.00	150	Horizontal	Pass
6**	17929.386	43.72	1.60	54.0	10.28	AV	360.00	150	Horizontal	Pass

Radiated Emissions Above 1GHz - IEEE 802.11ac VHT40(U-NII-1)

IEEE 802.11ac VHT40-CH38 5190MHz										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1331.400	40.83	-23.91	74.0	33.17	Peak	216.00	150	Horizontal	Pass
1**	1331.400	31.41	-23.91	54.0	22.59	AV	216.00	150	Horizontal	Pass
2	5107.750	49.98	-9.00	74.0	24.02	Peak	324.00	150	Horizontal	Pass
2**	5107.750	40.55	-9.00	54.0	13.45	AV	324.00	150	Horizontal	Pass
3	7035.500	52.94	-5.49	68.2	15.26	Peak	288.00	150	Horizontal	Pass
3**	7035.500	44.17	-5.49	--	-44.17	AV	288.00	150	Horizontal	N/A
4	10380.000	44.23	-4.95	68.2	23.97	Peak	36.00	150	Horizontal	Pass
4**	10380.000	37.60	-4.95	--	-37.60	AV	36.00	150	Horizontal	N/A
5	15570.000	46.45	-2.83	74.0	27.55	Peak	288.00	150	Horizontal	Pass
5**	15570.000	39.21	-2.83	54.0	14.79	AV	288.00	150	Horizontal	Pass
6	16838.963	52.55	0.02	68.2	15.65	Peak	144.00	150	Horizontal	Pass
6**	16838.963	43.51	0.02	--	-43.51	AV	144.00	150	Horizontal	N/A

IEEE 802.11ac VHT40-CH38 5190MHz										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1332.400	40.96	-23.92	74.0	33.04	Peak	36.00	150	Vertical	Pass
1**	1332.400	34.27	-23.92	54.0	19.73	AV	36.00	150	Vertical	Pass
2	5126.000	50.46	-8.80	74.0	23.54	Peak	288.00	150	Vertical	Pass
2**	5126.000	41.14	-8.80	54.0	12.86	AV	288.00	150	Vertical	Pass
3	7017.250	53.37	-5.55	68.2	14.83	Peak	72.00	150	Vertical	Pass
3**	7017.250	43.00	-5.55	--	-43.00	AV	72.00	150	Vertical	N/A
4	10380.000	44.14	-4.95	68.2	24.06	Peak	252.00	150	Vertical	Pass
4**	10380.000	37.56	-4.95	--	-37.56	AV	252.00	150	Vertical	N/A
5	15570.000	46.42	-2.83	74.0	27.58	Peak	180.00	150	Vertical	Pass
5**	15570.000	39.04	-2.83	54.0	14.96	AV	180.00	150	Vertical	Pass
6	17935.426	52.05	1.59	74.0	21.95	Peak	144.00	150	Vertical	Pass
6**	17935.426	43.00	1.59	54.0	11.00	AV	144.00	150	Vertical	Pass

IEEE 802.11ac VHT40-CH46 5230MHz										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1331.200	41.80	-23.91	74.0	32.20	Peak	216.00	150	Vertical	Pass
1**	1331.200	33.49	-23.91	54.0	20.51	AV	216.00	150	Vertical	Pass
2	5119.000	50.39	-8.89	74.0	23.61	Peak	360.00	150	Vertical	Pass
2**	5119.000	40.51	-8.89	54.0	13.49	AV	360.00	150	Vertical	Pass
3	7024.250	53.19	-5.56	68.2	15.01	Peak	144.00	150	Vertical	Pass
3**	7024.250	43.92	-5.56	--	-43.92	AV	144.00	150	Vertical	N/A
4	10460.000	44.70	-5.15	68.2	23.50	Peak	72.00	150	Vertical	Pass
4**	10460.000	38.07	-5.15	--	-38.07	AV	72.00	150	Vertical	N/A
5	15690.000	46.78	-2.50	74.0	27.22	Peak	36.00	150	Vertical	Pass
5**	15690.000	39.87	-2.50	54.0	14.13	AV	36.00	150	Vertical	Pass
6	17928.073	53.40	1.50	74.0	20.60	Peak	144.00	150	Vertical	Pass
6**	17928.073	42.64	1.50	54.0	11.36	AV	144.00	150	Vertical	Pass

IEEE 802.11ac VHT40-CH46 5230MHz										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2269.300	41.28	-19.34	74.0	32.72	Peak	360.00	150	Horizontal	Pass
1**	2269.300	31.29	-19.34	54.0	22.71	AV	360.00	150	Horizontal	Pass
2	5146.500	50.00	-8.51	74.0	24.00	Peak	324.00	150	Horizontal	Pass
2**	5146.500	41.32	-8.51	54.0	12.68	AV	324.00	150	Horizontal	Pass
3	7039.500	52.95	-5.44	68.2	15.25	Peak	216.00	150	Horizontal	Pass
3**	7039.500	43.63	-5.44	--	-43.63	AV	216.00	150	Horizontal	N/A
4	10460.000	45.04	-5.15	68.2	23.16	Peak	324.00	150	Horizontal	Pass
4**	10460.000	37.99	-5.15	--	-37.99	AV	324.00	150	Horizontal	N/A
5	15690.000	45.98	-2.50	74.0	28.02	Peak	360.00	150	Horizontal	Pass
5**	15690.000	40.69	-2.50	54.0	13.31	AV	360.00	150	Horizontal	Pass
6	17770.838	52.08	0.56	74.0	21.92	Peak	324.00	150	Horizontal	Pass
6**	17770.838	42.49	0.56	54.0	11.51	AV	324.00	150	Horizontal	Pass

Radiated Emissions Above 1GHz - IEEE 802.11ac VHT40 (U-NII-3)

IEEE 802.11ac HT40-CH151 5755MHz										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2329.100	41.34	-19.58	74.0	32.66	Peak	108.00	150	Horizontal	Pass
1**	2329.100	31.45	-19.58	54.0	22.55	AV	108.00	150	Horizontal	Pass
2	5146.000	48.94	-10.36	74.0	25.06	Peak	180.00	150	Horizontal	Pass
2**	5146.000	39.25	-10.36	54.0	14.75	AV	180.00	150	Horizontal	Pass
3	7997.250	51.85	-6.61	68.2	16.35	Peak	252.00	150	Horizontal	Pass
3**	7997.250	42.19	-6.61	--	-42.19	AV	252.00	150	Horizontal	N/A
4	11510.000	42.94	-5.11	74.0	31.06	Peak	252.00	150	Horizontal	Pass
4**	11510.000	36.87	-5.11	54.0	17.13	AV	252.00	150	Horizontal	Pass
5	17265.000	46.75	-0.05	68.2	21.45	Peak	288.00	150	Horizontal	Pass
5**	17265.000	40.66	-0.05	--	-40.66	AV	288.00	150	Horizontal	N/A
6	17482.088	53.06	1.39	68.2	15.14	Peak	72.00	150	Horizontal	Pass
6**	17482.088	43.26	1.39	--	-43.26	AV	72.00	150	Horizontal	N/A

IEEE 802.11ac HT40-CH151 5755MHz										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1331.700	43.07	-23.83	74.0	30.93	Peak	72.00	150	Vertical	Pass
1**	1331.700	33.74	-23.83	54.0	20.26	AV	72.00	150	Vertical	Pass
2	4973.250	48.24	-11.59	74.0	25.76	Peak	288.00	150	Vertical	Pass
2**	4973.250	37.84	-11.59	54.0	16.16	AV	288.00	150	Vertical	Pass
3	7087.000	51.89	-7.09	68.2	16.31	Peak	36.00	150	Vertical	Pass
3**	7087.000	42.30	-7.09	--	-42.30	AV	36.00	150	Vertical	N/A
4	11510.000	43.67	-5.11	74.0	30.33	Peak	108.00	150	Vertical	Pass
4**	11510.000	37.36	-5.11	54.0	16.64	AV	108.00	150	Vertical	Pass
5	17265.000	45.55	-0.05	68.2	22.65	Peak	36.00	150	Vertical	Pass
5**	17265.000	39.43	-0.05	--	-39.43	AV	36.00	150	Vertical	N/A
6	17825.962	52.11	1.03	74.0	21.89	Peak	180.00	150	Vertical	Pass
6**	17825.962	43.32	1.03	54.0	10.68	AV	180.00	150	Vertical	Pass

IEEE 802.11ac VHT40-CH159 5795MHz

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2237.500	41.01	-19.55	74.0	32.99	Peak	180.00	150	Vertical	Pass
1**	2237.500	30.92	-19.55	54.0	23.08	AV	180.00	150	Vertical	Pass
2	5035.000	48.18	-10.87	74.0	25.82	Peak	144.00	150	Vertical	Pass
2**	5035.000	38.34	-10.87	54.0	15.66	AV	144.00	150	Vertical	Pass
3	7026.500	51.80	-6.94	68.2	16.40	Peak	360.00	150	Vertical	Pass
3**	7026.500	42.08	-6.94	--	-42.08	AV	360.00	150	Vertical	N/A
4	11590.000	45.33	-4.32	74.0	28.67	Peak	324.00	150	Vertical	Pass
4**	11590.000	38.07	-4.32	54.0	15.93	AV	324.00	150	Vertical	Pass
5	17385.000	47.80	0.03	68.2	20.40	Peak	180.00	150	Vertical	Pass
5**	17385.000	41.24	0.03	--	-41.24	AV	180.00	150	Vertical	N/A
6	17932.538	52.18	1.62	74.0	21.82	Peak	360.00	150	Vertical	Pass
6**	17932.538	42.68	1.62	54.0	11.32	AV	360.00	150	Vertical	Pass

IEEE 802.11ac VHT40-CH159 5795MHz

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2368.800	40.91	-19.68	74.0	33.09	Peak	288.00	150	Horizontal	Pass
1**	2368.800	31.06	-19.68	54.0	22.94	AV	288.00	150	Horizontal	Pass
2	5140.250	49.13	-10.42	74.0	24.87	Peak	360.00	150	Horizontal	Pass
2**	5140.250	39.15	-10.42	54.0	14.85	AV	360.00	150	Horizontal	Pass
3	7043.250	51.44	-6.97	68.2	16.76	Peak	72.00	150	Horizontal	Pass
3**	7043.250	42.33	-6.97	--	-42.33	AV	72.00	150	Horizontal	N/A
4	11590.000	44.43	-4.32	74.0	29.57	Peak	108.00	150	Horizontal	Pass
4**	11590.000	38.83	-4.32	54.0	15.17	AV	108.00	150	Horizontal	Pass
5	17385.000	46.74	0.03	68.2	21.46	Peak	108.00	150	Horizontal	Pass
5**	17385.000	41.79	0.03	--	-41.79	AV	108.00	150	Horizontal	N/A
6	17933.851	51.88	1.61	74.0	22.12	Peak	288.00	150	Horizontal	Pass
6**	17933.851	44.20	1.61	54.0	9.80	AV	288.00	150	Horizontal	Pass

Radiated Emissions Above 1GHz - IEEE 802.11ac VHT80 (U-NII-1)

IEEE 802.11ac VHT80-CH42 5210MHz										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2296.500	40.51	-19.51	74.0	33.49	Peak	360.00	150	Horizontal	Pass
1**	2296.500	31.71	-19.51	54.0	22.29	AV	360.00	150	Horizontal	Pass
2	5133.750	50.06	-8.67	74.0	23.94	Peak	360.00	150	Horizontal	Pass
2**	5133.750	41.58	-8.67	54.0	12.42	AV	360.00	150	Horizontal	Pass
3	7032.250	52.57	-5.53	68.2	15.63	Peak	36.00	150	Horizontal	Pass
3**	7032.250	43.24	-5.53	--	-43.24	AV	36.00	150	Horizontal	N/A
4	10420.000	44.61	-4.60	68.2	23.59	Peak	216.00	150	Horizontal	Pass
4**	10420.000	38.70	-4.60	--	-38.70	AV	216.00	150	Horizontal	N/A
5	15630.000	45.86	-2.62	74.0	28.14	Peak	252.00	150	Horizontal	Pass
5**	15630.000	39.30	-2.62	54.0	14.70	AV	252.00	150	Horizontal	Pass
6	17932.276	52.39	1.63	74.0	21.61	Peak	360.00	150	Horizontal	Pass
6**	17932.276	44.53	1.63	54.0	9.47	AV	360.00	150	Horizontal	Pass

IEEE 802.11ac VHT80-CH42 5210MHz										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1331.900	41.84	-23.91	74.0	32.16	Peak	324.00	150	Vertical	Pass
1**	1331.900	33.54	-23.91	54.0	20.46	AV	324.00	150	Vertical	Pass
2	5148.500	49.89	-8.49	74.0	24.11	Peak	180.00	150	Vertical	Pass
2**	5148.500	41.98	-8.49	54.0	12.02	AV	180.00	150	Vertical	Pass
3	7043.500	52.93	-5.77	68.2	15.27	Peak	180.00	150	Vertical	Pass
3**	7043.500	44.18	-5.77	--	-44.18	AV	180.00	150	Vertical	N/A
4	10420.000	44.84	-4.60	68.2	23.36	Peak	180.00	150	Vertical	Pass
4**	10420.000	38.06	-4.60	--	-38.06	AV	180.00	150	Vertical	N/A
5	15630.000	46.77	-2.62	74.0	27.23	Peak	288.00	150	Vertical	Pass
5**	15630.000	39.41	-2.62	54.0	14.59	AV	288.00	150	Vertical	Pass
6	17919.412	52.51	0.85	74.0	21.49	Peak	324.00	150	Vertical	Pass
6**	17919.412	43.15	0.85	54.0	10.85	AV	324.00	150	Vertical	Pass

Radiated Emissions Above 1GHz - IEEE 802.11ac VHT80 (U-NII-3)

IEEE 802.11ac VHT80-CH155 5775MHz										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2348.400	42.89	-19.66	74.0	31.11	Peak	108.00	150	Vertical	Pass
1**	2348.400	31.55	-19.66	54.0	22.45	AV	108.00	150	Vertical	Pass
2	5139.000	49.91	-10.43	74.0	24.09	Peak	252.00	150	Vertical	Pass
2**	5139.000	39.48	-10.43	54.0	14.52	AV	252.00	150	Vertical	Pass
3	7001.250	51.75	-7.01	68.2	16.45	Peak	216.00	150	Vertical	Pass
3**	7001.250	41.58	-7.01	--	-41.58	AV	216.00	150	Vertical	N/A
4	11550.000	46.67	-4.41	74.0	27.33	Peak	216.00	150	Vertical	Pass
4**	11550.000	38.49	-4.41	54.0	15.51	AV	216.00	150	Vertical	Pass
5	17325.000	47.17	-0.06	68.2	21.03	Peak	324.00	150	Vertical	Pass
5**	17325.000	40.42	-0.06	--	-40.42	AV	324.00	150	Vertical	N/A
6	17999.999	47.20	0.93	74.0	26.80	Peak	180.00	150	Vertical	Pass
6**	17999.999	41.15	0.93	54.0	12.85	AV	180.00	150	Vertical	Pass

IEEE 802.11ac VHT80-CH155 5775MHz										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2248.100	40.72	-19.56	74.0	33.28	Peak	216.00	150	Horizontal	Pass
1**	2248.100	31.19	-19.56	54.0	22.81	AV	216.00	150	Horizontal	Pass
2	5117.500	48.68	-10.60	74.0	25.32	Peak	216.00	150	Horizontal	Pass
2**	5117.500	38.95	-10.60	54.0	15.05	AV	216.00	150	Horizontal	Pass
3	7064.750	51.51	-7.23	68.2	16.69	Peak	216.00	150	Horizontal	Pass
3**	7064.750	42.38	-7.23	--	-42.38	AV	216.00	150	Horizontal	N/A
4	11550.000	45.43	-4.41	74.0	28.57	Peak	36.00	150	Horizontal	Pass
4**	11550.000	38.91	-4.41	54.0	15.09	AV	36.00	150	Horizontal	Pass
5	17325.000	49.17	-0.06	68.2	19.03	Peak	252.00	150	Horizontal	Pass
5**	17325.000	40.26	-0.06	--	-40.26	AV	252.00	150	Horizontal	N/A
6	17999.999	47.94	0.93	74.0	26.06	Peak	180.00	150	Horizontal	Pass
6**	17999.999	41.41	0.93	54.0	12.59	AV	180.00	150	Horizontal	Pass

Note:

1. Results (dBuV/m) = Raw Value (dBuV) + Factor (dB/m)
2. Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) - Pre-amplifier
3. Margin value = Limit - Results.

18000MHz-40000MHz: Pass

Note: The amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

Radiated Band Edge - IEEE 802.11a (U-NII-1)

IEEE 802.11a-CH36 5180MHz-Low Band Edge										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	4809.400	50.03	-11.68	74.0	23.97	Peak	72.00	150	Horizontal	Pass
1**	4809.400	36.96	-11.68	54.0	17.04	AV	72.00	150	Horizontal	Pass
2	5149.250	47.87	-10.33	74.0	26.13	Peak	360.00	150	Horizontal	Pass
2**	5149.250	38.22	-10.33	54.0	15.78	AV	360.00	150	Horizontal	Pass

IEEE 802.11a-CH36 5180MHz-Low Band Edge										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5140.150	49.14	-10.42	74.0	24.86	Peak	144.00	150	Vertical	Pass
1**	5140.150	38.21	-10.42	54.0	15.79	AV	144.00	150	Vertical	Pass
2	5149.250	47.11	-10.33	74.0	26.89	Peak	288.00	150	Vertical	Pass
2**	5149.250	38.03	-10.33	54.0	15.97	AV	288.00	150	Vertical	Pass

IEEE 802.11a-CH48 5240MHz-High Band Edge										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.200	46.18	-10.56	74.0	27.82	Peak	72.00	150	Vertical	Pass
1**	5350.200	37.04	-10.56	54.0	16.96	AV	72.00	150	Vertical	Pass
2	5783.750	50.41	-9.03	74.0	23.59	Peak	324.00	150	Vertical	Pass
2**	5783.750	39.82	-9.03	54.0	14.18	AV	324.00	150	Vertical	Pass

IEEE 802.11a-CH48 5240MHz-High Band Edge										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.200	47.00	-10.56	74.0	27.00	Peak	36.00	150	Horizontal	Pass
1**	5350.200	37.05	-10.56	54.0	16.95	AV	36.00	150	Horizontal	Pass
2	5786.350	50.67	-9.05	74.0	23.33	Peak	108.00	150	Horizontal	Pass
2**	5786.350	40.03	-9.05	54.0	13.97	AV	108.00	150	Horizontal	Pass

Radiated Band Edge - IEEE 802.11a (U-NII-3)

IEEE 802.11a-CH149 5745MHz-Low Band Edge

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5625.900	50.37	-9.16	68.2	17.83	Peak	72.00	100	Vertical	Pass
2	5661.400	50.30	-9.22	76.7	26.40	Peak	180.00	100	Vertical	Pass
3	5719.900	51.76	-9.42	110.8	59.04	Peak	108.00	100	Vertical	Pass
4	5723.600	55.52	-9.40	119.0	63.48	Peak	360.00	100	Vertical	Pass
5	5724.500	56.19	-9.40	121.1	64.91	Peak	324.00	100	Vertical	Pass

IEEE 802.11a-CH149 5745MHz-Low Band Edge

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5620.600	50.32	-9.16	68.2	17.88	Peak	108.00	150	Horizontal	Pass
2	5687.100	50.47	-9.39	95.7	45.23	Peak	72.00	150	Horizontal	Pass
3	5719.800	51.54	-9.42	110.7	59.16	Peak	72.00	150	Horizontal	Pass
4	5723.600	54.73	-9.40	119.0	64.27	Peak	360.00	150	Horizontal	Pass
5	5724.500	53.59	-9.40	121.1	67.51	Peak	216.00	150	Horizontal	Pass

IEEE 802.11a-CH165 5825MHz-High Band Edge

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5850.400	49.04	-9.05	121.3	72.26	Peak	72.00	150	Horizontal	Pass
2	5852.700	50.04	-9.07	116.0	65.96	Peak	108.00	150	Horizontal	Pass
3	5864.500	50.27	-9.20	108.1	57.83	Peak	216.00	150	Horizontal	Pass
4	5919.600	50.71	-8.90	72.2	21.49	Peak	288.00	150	Horizontal	Pass
5	5990.600	51.54	-8.65	68.2	16.66	Peak	360.00	150	Horizontal	Pass

IEEE 802.11a-CH165 5825MHz-High Band Edge

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5850.400	48.72	-9.05	121.3	72.58	Peak	72.00	150	Vertical	Pass
2	5852.800	50.45	-9.07	115.8	65.35	Peak	72.00	150	Vertical	Pass
3	5857.300	50.32	-9.12	110.2	59.88	Peak	360.00	150	Vertical	Pass
4	5902.100	51.13	-9.17	85.1	33.97	Peak	72.00	150	Vertical	Pass
5	5940.000	51.02	-8.60	68.2	17.18	Peak	252.00	150	Vertical	Pass

Radiated Band Edge-IEEE 802.11n HT20 (U-NII-1)

IEEE 802.11n HT20-CH36 5180MHz-Low Band Edge										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5148.200	49.93	-10.34	74.0	24.07	Peak	36.00	150	Horizontal	Pass
1**	5148.200	38.40	-10.34	54.0	15.60	AV	36.00	150	Horizontal	Pass
2	5149.250	48.58	-10.33	74.0	25.42	Peak	288.00	150	Horizontal	Pass
2**	5149.250	38.63	-10.33	54.0	15.37	AV	288.00	150	Horizontal	Pass

IEEE 802.11n HT20-CH36 5180MHz-Low Band Edge										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5122.300	48.82	-10.59	74.0	25.18	Peak	252.00	150	Vertical	Pass
1**	5122.300	38.07	-10.59	54.0	15.93	AV	252.00	150	Vertical	Pass
2	5149.250	47.74	-10.33	74.0	26.26	Peak	324.00	150	Vertical	Pass
2**	5149.250	37.98	-10.33	54.0	16.02	AV	324.00	150	Vertical	Pass

IEEE 802.11n HT20-CH48 5240MHz-High Band Edge										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.200	46.41	-10.56	74.0	27.59	Peak	324.00	150	Vertical	Pass
1**	5350.200	37.15	-10.56	54.0	16.85	AV	324.00	150	Vertical	Pass
2	5604.025	50.52	-9.05	74.0	23.48	Peak	252.00	150	Vertical	Pass
2**	5604.025	39.16	-9.05	54.0	14.84	AV	252.00	150	Vertical	Pass

IEEE 802.11n HT20-CH48 5240MHz-High Band Edge										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.200	46.31	-10.56	74.0	27.69	Peak	36.00	150	Horizontal	Pass
1**	5350.200	37.01	-10.56	54.0	16.99	AV	36.00	150	Horizontal	Pass
2	5795.775	50.99	-9.11	74.0	23.01	Peak	360.00	150	Horizontal	Pass
2**	5795.775	39.64	-9.11	54.0	14.36	AV	360.00	150	Horizontal	Pass

Radiated Band Edge-IEEE 802.11n HT20 (U-NII-3)

IEEE 802.11n HT20-CH149 5745MHz-Low Band Edge

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5613.400	50.25	-9.12	68.2	17.95	Peak	360.00	150	Vertical	Pass
2	5666.200	50.14	-9.25	80.2	30.06	Peak	72.00	150	Vertical	Pass
3	5719.900	53.62	-9.42	110.8	57.18	Peak	288.00	150	Vertical	Pass
4	5723.700	60.11	-9.40	119.2	59.09	Peak	36.00	150	Vertical	Pass
5	5724.500	57.47	-9.40	121.1	63.63	Peak	180.00	150	Vertical	Pass

IEEE 802.11n HT20-CH149 5745MHz-Low Band Edge

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5602.900	51.40	-9.00	68.2	16.80	Peak	288.00	150	Horizontal	Pass
2	5669.100	49.80	-9.27	82.4	32.60	Peak	36.00	150	Horizontal	Pass
3	5719.900	51.51	-9.42	110.8	59.29	Peak	288.00	150	Horizontal	Pass
4	5723.300	57.91	-9.41	118.3	60.39	Peak	324.00	150	Horizontal	Pass
5	5724.500	55.14	-9.40	121.1	65.96	Peak	72.00	150	Horizontal	Pass

IEEE 802.11n HT20-CH165 5825MHz-High Band Edge

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5850.400	52.40	-9.05	121.3	68.90	Peak	180.00	150	Horizontal	Pass
2	5853.500	52.23	-9.08	114.2	61.97	Peak	108.00	150	Horizontal	Pass
3	5856.200	51.82	-9.11	110.5	58.68	Peak	324.00	150	Horizontal	Pass
4	5917.400	50.77	-8.94	73.8	23.03	Peak	360.00	150	Horizontal	Pass
5	5938.400	50.85	-8.60	68.2	17.35	Peak	252.00	150	Horizontal	Pass

IEEE 802.11n HT20-CH165 5825MHz-High Band Edge

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5850.400	56.48	-9.05	121.3	64.82	Peak	288.00	150	Vertical	Pass
2	5852.200	57.65	-9.07	117.2	59.55	Peak	252.00	150	Vertical	Pass
3	5856.300	54.70	-9.11	110.4	55.70	Peak	324.00	150	Vertical	Pass
4	5889.800	50.57	-9.22	94.2	43.63	Peak	180.00	150	Vertical	Pass
5	5950.400	50.56	-8.61	68.2	17.64	Peak	252.00	150	Vertical	Pass

Radiated Band Edge-IEEE 802.11n HT40 (U-NII-1)

IEEE 802.11n HT40-CH38 5190MHz-Low Band Edge										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5148.200	50.10	-10.34	74.0	23.90	Peak	324.00	150	Horizontal	Pass
1**	5148.200	38.08	-10.34	54.0	15.92	AV	324.00	150	Horizontal	Pass
2	5149.250	50.39	-10.33	74.0	23.61	Peak	252.00	150	Horizontal	Pass
2**	5149.250	38.39	-10.33	54.0	15.61	AV	252.00	150	Horizontal	Pass

IEEE 802.11n HT40-CH38 5190MHz-Low Band Edge										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5060.350	49.12	-10.65	74.0	24.88	Peak	36.00	150	Vertical	Pass
1**	5060.350	37.59	-10.65	54.0	16.41	AV	36.00	150	Vertical	Pass
2	5149.250	46.84	-10.33	74.0	27.16	Peak	36.00	150	Vertical	Pass
2**	5149.250	38.22	-10.33	54.0	15.78	AV	36.00	150	Vertical	Pass
3										
3**										

IEEE 802.11n HT40-CH46 5230MHz-High Band Edge										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.200	47.61	-10.56	74.0	26.39	Peak	288.00	150	Horizontal	Pass
1**	5350.200	37.19	-10.56	54.0	16.81	AV	288.00	150	Horizontal	Pass
2	5791.875	50.33	-9.09	74.0	23.67	Peak	252.00	150	Horizontal	Pass
2**	5791.875	39.54	-9.09	54.0	14.46	AV	252.00	150	Horizontal	Pass

IEEE 802.11n HT40-CH46 5230MHz-High Band Edge										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.200	46.32	-10.56	74.0	27.68	Peak	108.00	150	Vertical	Pass
1**	5350.200	37.32	-10.56	54.0	16.68	AV	108.00	150	Vertical	Pass
2	5788.950	51.58	-9.08	74.0	22.42	Peak	72.00	150	Vertical	Pass
2**	5788.950	39.40	-9.08	54.0	14.60	AV	72.00	150	Vertical	Pass

Radiated Band Edge-IEEE 802.11n HT40 (U-NII-3)

IEEE 802.11n HT40-CH151 5755MHz-Low Band Edge

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5614.200	51.07	-9.12	68.2	17.13	Peak	180.00	150	Horizontal	Pass
2	5675.900	50.22	-9.29	87.4	37.18	Peak	252.00	150	Horizontal	Pass
3	5719.600	53.25	-9.43	110.7	57.45	Peak	108.00	150	Horizontal	Pass
4	5720.600	53.98	-9.42	112.2	58.22	Peak	288.00	150	Horizontal	Pass
5	5724.500	52.17	-9.40	121.1	68.93	Peak	360.00	150	Horizontal	Pass

IEEE 802.11n HT40-CH151 5755MHz-Low Band Edge

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5609.900	50.70	-9.09	68.2	17.50	Peak	360.00	150	Vertical	Pass
2	5683.900	49.69	-9.34	93.3	43.61	Peak	144.00	150	Vertical	Pass
3	5719.100	55.15	-9.43	110.5	55.35	Peak	108.00	150	Vertical	Pass
4	5723.100	55.14	-9.41	117.9	62.76	Peak	360.00	150	Vertical	Pass
5	5724.500	52.07	-9.40	121.1	69.03	Peak	36.00	150	Vertical	Pass

IEEE 802.11n HT40-CH159 5795MHz-High Band Edge

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5850.400	48.79	-9.05	121.3	72.51	Peak	288.00	150	Horizontal	Pass
2	5852.500	50.08	-9.07	116.5	66.42	Peak	252.00	150	Horizontal	Pass
3	5870.500	50.65	-9.27	106.5	55.85	Peak	252.00	150	Horizontal	Pass
4	5917.100	51.02	-8.94	74.0	22.98	Peak	144.00	150	Horizontal	Pass
5	5970.000	51.05	-8.57	68.2	17.15	Peak	144.00	150	Horizontal	Pass

IEEE 802.11n HT40-CH159 5795MHz-High Band Edge

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5850.400	48.69	-9.05	121.3	72.61	Peak	36.00	150	Vertical	Pass
2	5851.300	49.90	-9.06	119.2	69.30	Peak	144.00	150	Vertical	Pass
3	5864.500	50.80	-9.20	108.1	57.30	Peak	324.00	150	Vertical	Pass
4	5914.200	50.63	-8.99	76.2	25.57	Peak	72.00	150	Vertical	Pass
5	5932.600	50.88	-8.66	68.2	17.32	Peak	288.00	150	Vertical	Pass

Radiated Band Edge-IEEE 802.11ac VHT20 (U-NII-1)

IEEE 802.11ac VHT20-CH36 5180MHz-Low Band Edge

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5146.450	49.88	-10.36	74.0	24.12	Peak	360.00	150	Horizontal	Pass
1**	5146.450	38.13	-10.36	54.0	15.87	AV	360.00	150	Horizontal	Pass
2	5149.250	49.18	-10.33	74.0	24.82	Peak	36.00	150	Horizontal	Pass
2**	5149.250	38.33	-10.33	54.0	15.67	AV	36.00	150	Horizontal	Pass

IEEE 802.11ac VHT20-CH36 5180MHz-Low Band Edge

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	4820.250	48.92	-11.36	74.0	25.08	Peak	360.00	150	Vertical	Pass
1**	4820.250	36.81	-11.36	54.0	17.19	AV	360.00	150	Vertical	Pass
2	5149.250	46.64	-10.33	74.0	27.36	Peak	360.00	150	Vertical	Pass
2**	5149.250	38.03	-10.33	54.0	15.97	AV	360.00	150	Vertical	Pass

IEEE 802.11ac VHT20-CH48 5240MHz-High Band Edge

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.200	46.59	-10.56	74.0	27.41	Peak	144.00	150	Vertical	Pass
1**	5350.200	37.23	-10.56	54.0	16.77	AV	144.00	150	Vertical	Pass
2	5781.150	50.70	-9.00	74.0	23.30	Peak	360.00	150	Vertical	Pass
2**	5781.150	39.43	-9.00	54.0	14.57	AV	360.00	150	Vertical	Pass

IEEE 802.11ac VHT20-CH48 5240MHz-High Band Edge

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.200	47.73	-10.56	74.0	26.27	Peak	252.00	150	Horizontal	Pass
1**	5350.200	37.33	-10.56	54.0	16.67	AV	252.00	150	Horizontal	Pass
2	5799.025	50.58	-9.12	74.0	23.42	Peak	180.00	150	Horizontal	Pass
2**	5799.025	39.41	-9.12	54.0	14.59	AV	180.00	150	Horizontal	Pass

Radiated Band Edge-IEEE 802.11ac VHT20 (U-NII-3)

IEEE 802.11ac VHT20-CH149 5745MHz-Low Band Edge										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5623.100	49.92	-9.16	68.2	18.28	Peak	216.00	150	Vertical	Pass
2	5686.800	50.25	-9.38	95.5	45.25	Peak	360.00	150	Vertical	Pass
3	5716.200	49.18	-9.46	109.7	60.52	Peak	108.00	150	Vertical	Pass
4	5723.900	50.41	-9.40	119.7	69.29	Peak	36.00	150	Vertical	Pass
5	5724.500	48.17	-9.40	121.1	72.93	Peak	216.00	150	Vertical	Pass

IEEE 802.11ac VHT20-CH149 5745MHz-Low Band Edge										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5622.400	50.66	-9.16	68.2	17.54	Peak	144.00	150	Horizontal	Pass
2	5673.300	50.15	-9.28	85.5	35.35	Peak	108.00	150	Horizontal	Pass
3	5702.000	49.74	-9.51	105.8	56.06	Peak	180.00	150	Horizontal	Pass
4	5723.800	49.33	-9.40	119.5	70.17	Peak	252.00	150	Horizontal	Pass
5	5724.500	48.42	-9.40	121.1	72.68	Peak	324.00	150	Horizontal	Pass

IEEE 802.11ac VHT20-CH165 5825MHz-High Band Edge										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5850.400	48.69	-9.05	121.3	72.61	Peak	252.00	150	Horizontal	Pass
2	5854.900	49.89	-9.10	111.0	61.11	Peak	252.00	150	Horizontal	Pass
3	5866.500	50.20	-9.23	107.6	57.40	Peak	360.00	150	Horizontal	Pass
4	5914.700	51.05	-8.98	75.8	24.75	Peak	324.00	150	Horizontal	Pass
5	5929.700	51.27	-8.70	68.2	16.93	Peak	180.00	150	Horizontal	Pass

IEEE 802.11ac VHT20-CH165 5825MHz-High Band Edge										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5850.400	51.16	-9.05	121.3	70.14	Peak	216.00	150	Vertical	Pass
2	5851.600	52.48	-9.06	118.6	66.12	Peak	360.00	150	Vertical	Pass
3	5858.600	51.35	-9.13	109.8	58.45	Peak	360.00	150	Vertical	Pass
4	5906.200	50.80	-9.11	82.1	31.30	Peak	288.00	150	Vertical	Pass
5	5998.000	51.18	-8.62	68.2	17.02	Peak	252.00	150	Vertical	Pass

Radiated Band Edge-IEEE 802.11ac VHT40 (U-NII-1)

IEEE 802.11ac VHT40-CH38 5190MHz-Low Band Edge

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5130.700	49.02	-10.53	74.0	24.98	Peak	144.00	150	Horizontal	Pass
1**	5130.700	37.92	-10.53	54.0	16.08	AV	144.00	150	Horizontal	Pass
2	5149.250	48.60	-10.33	74.0	25.40	Peak	216.00	150	Horizontal	Pass
2**	5149.250	38.05	-10.33	54.0	15.95	AV	216.00	150	Horizontal	Pass

IEEE 802.11ac VHT40-CH38 5190MHz-Low Band Edge

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	4784.200	49.57	-11.49	74.0	24.43	Peak	36.00	150	Vertical	Pass
1**	4784.200	37.10	-11.49	54.0	16.90	AV	36.00	150	Vertical	Pass
2	5149.250	47.39	-10.33	74.0	26.61	Peak	360.00	150	Vertical	Pass
2**	5149.250	37.67	-10.33	54.0	16.33	AV	360.00	150	Vertical	Pass

IEEE 802.11ac VHT40-CH46 5230MHz-High Band Edge

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.200	46.37	-10.56	74.0	27.63	Peak	288.00	150	Horizontal	Pass
1**	5350.200	37.05	-10.56	54.0	16.95	AV	288.00	150	Horizontal	Pass
2	5593.625	50.50	-9.03	74.0	23.50	Peak	360.00	150	Horizontal	Pass
2**	5593.625	39.04	-9.03	54.0	14.96	AV	360.00	150	Horizontal	Pass

IEEE 802.11ac VHT40-CH46 5230MHz-High Band Edge

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.200	46.81	-10.56	74.0	27.19	Peak	108.00	150	Vertical	Pass
1**	5350.200	37.11	-10.56	54.0	16.89	AV	108.00	150	Vertical	Pass
2	5783.750	49.96	-9.03	74.0	24.04	Peak	324.00	150	Vertical	Pass
2**	5783.750	39.52	-9.03	54.0	14.48	AV	324.00	150	Vertical	Pass

Radiated Band Edge-IEEE 802.11n HT40 (U-NII-3)

IEEE 802.11ac VHT40-CH151 5755MHz-Low Band Edge										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5677.700	50.06	-9.29	88.7	38.64	Peak	324.00	150	Horizontal	Pass
2	5715.600	49.62	-9.46	109.6	59.98	Peak	180.00	150	Horizontal	Pass
3	5721.400	49.04	-9.41	114.0	64.96	Peak	72.00	150	Horizontal	Pass
4	5724.500	48.37	-9.40	121.1	72.73	Peak	36.00	150	Horizontal	Pass
5	5770.400	62.19	-9.12	--	225.81	Peak	288.00	150	Horizontal	Pass

IEEE 802.11ac VHT40-CH151 5755MHz-Low Band Edge										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5603.500	50.51	-9.01	68.2	17.69	Peak	72.00	150	Vertical	Pass
2	5689.400	49.99	-9.42	97.4	47.41	Peak	360.00	150	Vertical	Pass
3	5713.400	49.19	-9.49	109.0	59.81	Peak	36.00	150	Vertical	Pass
4	5720.400	49.90	-9.42	111.7	61.80	Peak	108.00	150	Vertical	Pass
5	5724.500	47.98	-9.40	121.1	73.12	Peak	144.00	150	Vertical	Pass

IEEE 802.11ac VHT40-CH159 5795MHz-High Band Edge										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5850.400	48.24	-9.05	121.3	73.06	Peak	324.00	150	Horizontal	Pass
2	5853.200	49.93	-9.08	114.9	64.97	Peak	324.00	150	Horizontal	Pass
3	5860.900	50.75	-9.16	109.1	58.35	Peak	144.00	150	Horizontal	Pass
4	5919.000	51.04	-8.91	72.6	21.56	Peak	180.00	150	Horizontal	Pass
5	5935.300	51.05	-8.62	68.2	17.15	Peak	360.00	150	Horizontal	Pass

IEEE 802.11ac VHT40-CH159 5795MHz-High Band Edge										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5850.400	48.08	-9.05	121.3	73.22	Peak	72.00	150	Vertical	Pass
2	5852.500	50.20	-9.07	116.5	66.30	Peak	72.00	150	Vertical	Pass
3	5860.100	50.71	-9.15	109.4	58.69	Peak	360.00	150	Vertical	Pass
4	5887.300	50.61	-9.24	96.1	45.49	Peak	360.00	150	Vertical	Pass
5	5980.300	50.66	-8.59	68.2	17.54	Peak	252.00	150	Vertical	Pass

Radiated Band Edge-IEEE 802.11ac VHT80 (U-NII-1)

IEEE 802.11ac VHT80-CH42 5210MHz-Low Band Edge

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5147.150	49.56	-10.35	74.0	24.44	Peak	180.00	150	Horizontal	Pass
1**	5147.150	38.22	-10.35	54.0	15.78	AV	180.00	150	Horizontal	Pass
2	5149.250	48.51	-10.33	74.0	25.49	Peak	288.00	150	Horizontal	Pass
2**	5149.250	38.31	-10.33	54.0	15.69	AV	288.00	150	Horizontal	Pass

IEEE 802.11ac VHT80-CH42 5210MHz-Low Band Edge

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5115.650	50.97	-10.60	74.0	23.03	Peak	360.00	150	Vertical	Pass
1**	5115.650	38.03	-10.60	54.0	15.97	AV	360.00	150	Vertical	Pass
2	5149.250	46.85	-10.33	74.0	27.15	Peak	288.00	150	Vertical	Pass
2**	5149.250	37.94	-10.33	54.0	16.06	AV	288.00	150	Vertical	Pass

IEEE 802.11ac VHT80-CH42 5210MHz-High Band Edge

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.200	46.49	-10.56	74.0	27.51	Peak	216.00	150	Vertical	Pass
1**	5350.200	37.26	-10.56	54.0	16.74	AV	216.00	150	Vertical	Pass
2	5609.550	50.42	-9.12	74.0	23.58	Peak	360.00	150	Vertical	Pass
2**	5609.550	38.94	-9.12	54.0	15.06	AV	360.00	150	Vertical	Pass

IEEE 802.11ac VHT80-CH42 5210MHz-High Band Edge

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.200	46.44	-10.56	74.0	27.56	Peak	360.00	150	Horizontal	Pass
1**	5350.200	36.95	-10.56	54.0	17.05	AV	360.00	150	Horizontal	Pass
2	5736.625	50.88	-9.46	74.0	23.12	Peak	288.00	150	Horizontal	Pass
2**	5736.625	38.55	-9.46	54.0	15.45	AV	288.00	150	Horizontal	Pass

Radiated Band Edge-IEEE 802.11ac VHT80 (U-NII-3)

IEEE 802.11ac VHT80-CH155 5775MHz-Low Band Edge										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5619.600	49.94	-9.16	68.2	18.26	Peak	252.00	150	Vertical	Pass
2	5653.600	49.87	-9.18	70.9	21.03	Peak	108.00	150	Vertical	Pass
3	5719.400	51.21	-9.43	110.6	59.39	Peak	36.00	150	Vertical	Pass
4	5723.900	53.83	-9.40	119.7	65.87	Peak	216.00	150	Vertical	Pass
5	5724.500	52.34	-9.40	121.1	68.76	Peak	36.00	150	Vertical	Pass

IEEE 802.11ac VHT80-CH155 5775MHz-Low Band Edge										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5611.500	50.71	-9.10	68.2	17.49	Peak	144.00	150	Horizontal	Pass
2	5664.600	49.87	-9.24	79.0	29.13	Peak	72.00	150	Horizontal	Pass
3	5716.500	50.88	-9.46	109.8	58.92	Peak	360.00	150	Horizontal	Pass
4	5722.800	52.56	-9.41	117.2	64.64	Peak	180.00	150	Horizontal	Pass
5	5724.500	51.23	-9.40	121.1	69.87	Peak	216.00	150	Horizontal	Pass

IEEE 802.11ac VHT80-CH155 5775MHz-High Band Edge										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5850.400	48.62	-9.05	121.3	72.68	Peak	36.00	150	Horizontal	Pass
2	5854.000	50.52	-9.09	113.1	62.58	Peak	252.00	150	Horizontal	Pass
3	5861.200	50.51	-9.16	109.1	58.59	Peak	288.00	150	Horizontal	Pass
4	5924.100	51.28	-8.81	68.9	17.62	Peak	144.00	150	Horizontal	Pass
5	5959.100	51.37	-8.52	68.2	16.83	Peak	108.00	150	Horizontal	Pass

IEEE 802.11ac VHT80-CH155 5775MHz-High Band Edge										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5850.400	48.61	-9.05	121.3	72.69	Peak	360.00	150	Vertical	Pass
2	5852.200	51.08	-9.07	117.2	66.12	Peak	324.00	150	Vertical	Pass
3	5861.700	50.89	-9.17	108.9	58.01	Peak	108.00	150	Vertical	Pass
4	5921.000	51.10	-8.87	71.1	20.00	Peak	360.00	150	Vertical	Pass
5	5940.000	51.29	-8.60	68.2	16.91	Peak	108.00	150	Vertical	Pass

Note:

1. Results (dBuV/m) = Raw Value (dBuV) + Factor (dB/m)
2. Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) - Pre-amplifier
3. Margin value = Limit - Results.

9. AC POWER LINE CONDUCTED EMISSIONS

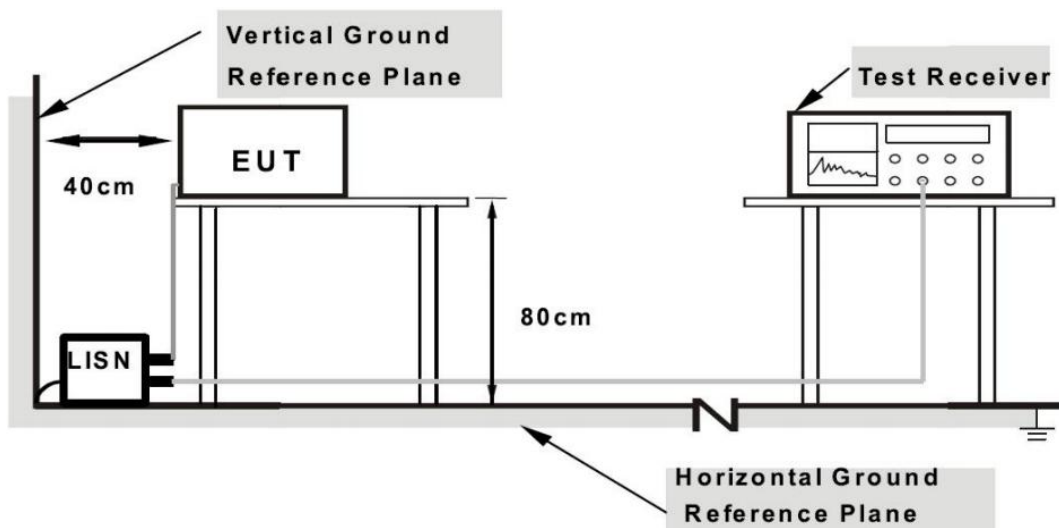
9.1. Limit

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level dB(μ V)	Average Level dB(μ V)
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*
500kHz ~ 5MHz	56	46
5MHz ~ 30MHz	60	50

Note:

1. * Decreasing linearly with logarithm of frequency.
2. The lower limit shall apply at the transition frequencies.

9.2. Test Setup



9.3. Spectrum Analyzer Setting

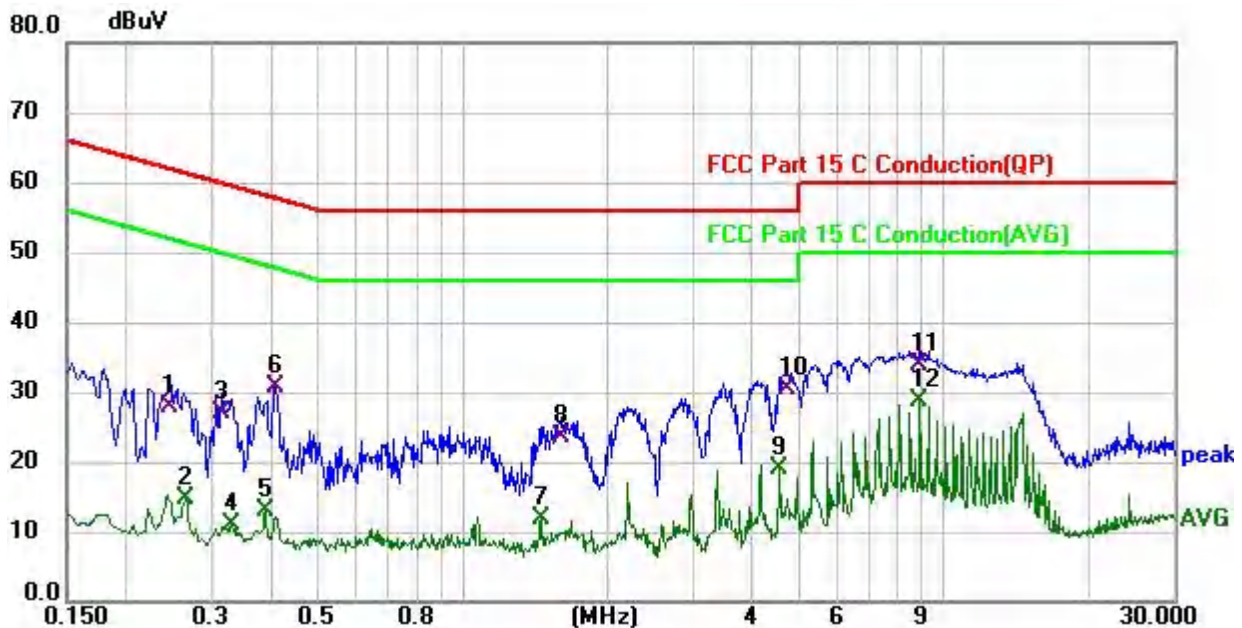
Spectrum Parameters	Setting
RBW	9KHz
VBW	9KHz
Start frequency	150KHz
Stop frequency	30MHz
Sweep Time	Auto
Detector	QP/AVG
Trace Mode	Max Hold

9.4. Test Procedure

- a. The EUT was placed on a non-metallic table, 80cm above the ground plane.
- b. The EUT Power connected to the power mains through a line impedance stabilization network.
- c. Provides a 50ohm coupling impedance for the EUT (Please refer the block diagram of the test setup and photographs).
- d. Set the EUT transmit continuously with maximum output power.
- e. Spectrum analyzer setting parameters in accordance with section 11.3.
- f. The AC line is checked to find out the maximum conducted emission. To find the maximum emission levels, the relative positions of equipment and all the interface cables shall be changed according to ANSI C63.10:2020 on Conducted Emission Test.
- g. Record the results in the test report. (only worse case: IEEE 802.11a mode with CH36 5180MHz is reported)

9.5. Test Result

EUT: Tablet PC
M/N: AF12/ES418
Test Voltage: DC 12V by Switching Power Supply Input: AC 240V/50Hz
Phase: Live
Test Mode: TX Mode
Note: only worse case: IEEE 802.11n HT20 mode with CH36 5180MHz is reported
Detailed results are shown below

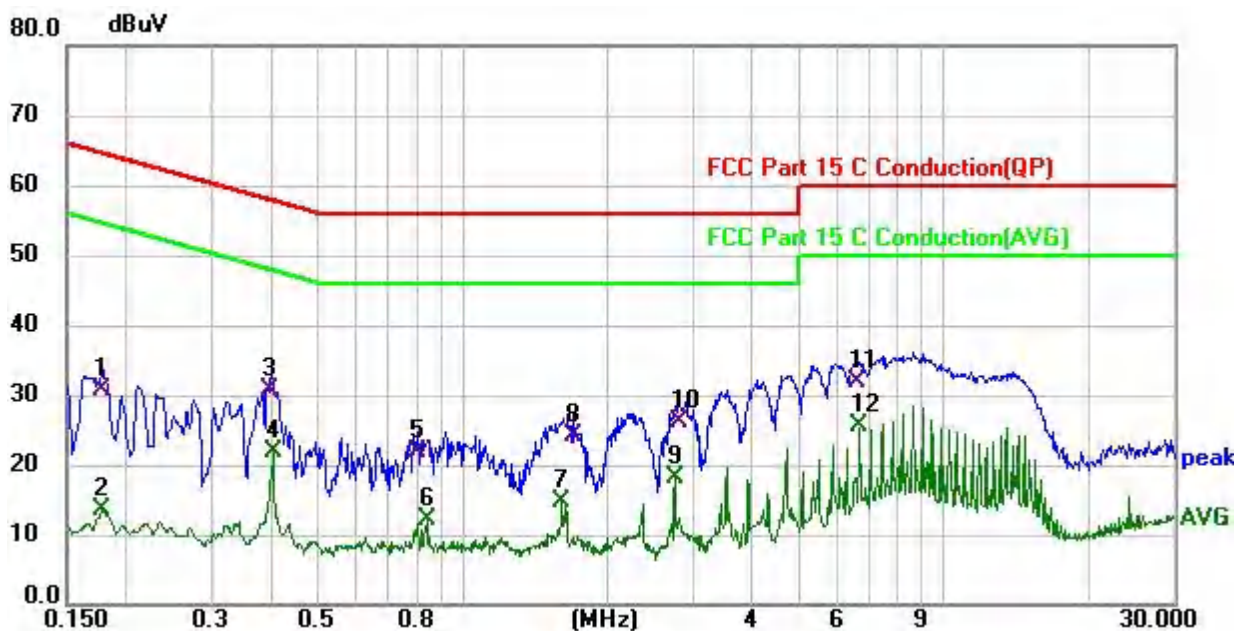


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.246	7.03	20.84	27.87	61.89	-34.02	QP	P	
2	0.266	-5.99	20.83	14.84	51.24	-36.40	AVG	P	
3	0.314	6.12	20.82	26.94	59.86	-32.92	QP	P	
4	0.330	-9.95	20.82	10.87	49.45	-38.58	AVG	P	
5	0.386	-7.78	20.82	13.04	48.15	-35.11	AVG	P	
6	0.406	9.81	20.82	30.63	57.73	-27.10	QP	P	
7	1.450	-9.04	20.95	11.91	46.00	-34.09	AVG	P	
8	1.606	2.61	20.99	23.60	56.00	-32.40	QP	P	
9	4.558	-2.09	21.08	18.99	46.00	-27.01	AVG	P	
10	4.726	9.36	21.06	30.42	56.00	-25.58	QP	P	
11	8.886	12.11	21.67	33.78	60.00	-26.22	QP	P	
12 *	8.886	6.97	21.67	28.64	50.00	-21.36	AVG	P	

Remark: The test Result=Reading+ Lisn+ Cab L.

If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

EUT: Tablet PC
M/N: AF12/ES418
Test Voltage: DC 12V by Switching Power Supply Input: AC 240V/50Hz
Phase: Neutral
Test Mode: TX Mode
Note: only worse case: IEEE 802.11n HT20 mode with CH36 5180MHz is reported
Detailed results are shown below



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.178	9.87	20.84	30.71	64.58	-33.87	QP	P	
2	0.178	-7.28	20.84	13.56	54.58	-41.02	AVG	P	
3	0.398	9.84	20.82	30.66	57.90	-27.24	QP	P	
4	0.402	0.96	20.82	21.78	47.81	-26.03	AVG	P	
5	0.802	1.00	20.86	21.86	56.00	-34.14	QP	P	
6	0.842	-8.79	20.86	12.07	46.00	-33.93	AVG	P	
7	1.610	-6.14	20.99	14.85	46.00	-31.15	AVG	P	
8	1.698	3.16	21.00	24.16	56.00	-31.84	QP	P	
9	2.754	-2.72	21.00	18.28	46.00	-27.72	AVG	P	
10	2.830	5.15	20.98	26.13	56.00	-29.87	QP	P	
11	6.606	10.79	21.05	31.84	60.00	-28.16	QP	P	
12 *	6.670	4.39	21.04	25.43	50.00	-24.57	AVG	P	

Remark: The test Result=Reading+ Lisn+ Cab L.

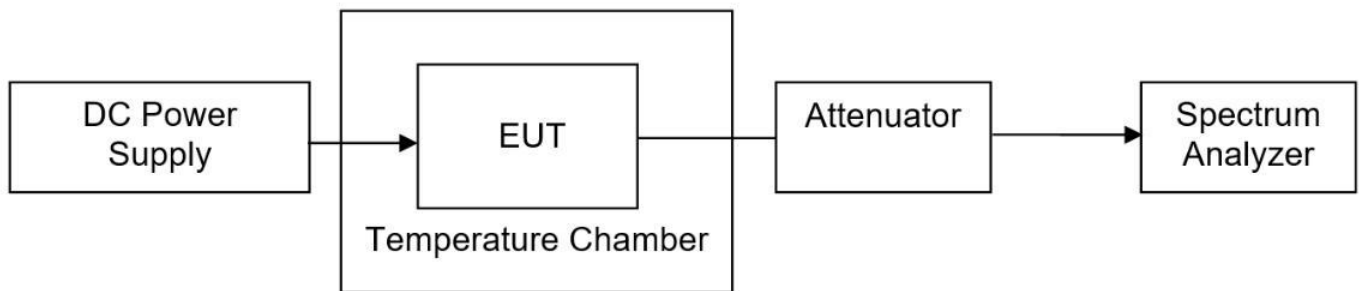
If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

10. FREQUENCY STABILITY

10.1. Limit

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the operational description.

10.2. Test Setup



10.3. Spectrum Analyzer Setting

Spectrum Parameters	Setting
Center Frequency	The center frequency of the channel under test
RBW	10 kHz
VBW	$\geq 3 \times \text{RBW}$
Span	Encompass the entire emissions bandwidth (EBW) of the signal
Sweep Time	Auto
Detector	PEAK
Trace Mode	Max Hold

10.4. Test Procedure

Frequency Stability under Temperature Variations:

The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 20°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C increased per stage until the highest temperature +50°C reached.

Frequency Stability under Voltage Variations:

Set chamber temperature to 20°C. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency. Reduce the input voltage to specify extreme voltage variation ($\pm 15\%$) and endpoint, record the maximum frequency change.

10.5.Test Result

Reference Frequency:802.11ac channel=36 frequency=5180MHz					
Voltage(V)	Temperature (°C)	Frequency error		Limit(ppm)	Result
		Hz	ppm		
DC 3.85	-30	75.6	0.015	Within the band of operation	Pass
	-20	70.2	0.014		
	-10	62.3	0.012		
	0	73.9	0.014		
	10	57.8	0.011		
	20	48.3	0.009		
	30	48.8	0.009		
	40	80.9	0.016		
	50	82.4	0.016		
DC 4.20	25	70.3	0.014		
DC 3.40	25	85.4	0.016		

Reference Frequency:802.11ac channel=149 frequency=5745MHz					
Voltage(V)	Temperature (°C)	Frequency error		Limit(ppm)	Result
		Hz	ppm		
DC 3.85	-30	67.7	0.012	Within the band of operation	Pass
	-20	81.4	0.014		
	-10	104.1	0.018		
	0	82.9	0.014		
	10	93.4	0.016		
	20	48.2	0.008		
	30	71.9	0.013		
	40	77.5	0.013		
	50	82.2	0.014		
DC 4.20	25	97.8	0.017		
DC 3.40	25	54.3	0.009		

11. ANTENNA REQUIREMENTS

11.1. Limit

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§15.211, 15.213, 15.217, 15.219, 15.221, or §15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

11.2. Test Result

The antennas used for this product is internal antenna (FPC, IPEX connector), so compliance with antenna requirements. (Please refer to the **Annex B. EUT Internal Photos** for details)



12.APPENDIX

"EUT of External Photos, EUT Internal Photos & Test Setup Photos" Please refer to the Annex A, Annex B& Annex C document.

CTSL2610130018ER Annex A. EUT External Photos

CTSL2610130018ER Annex B. EUT Internal Photos

CTSL2610130018ER Annex C. Test Setup Photos

-----*End of Test Report*-----

