



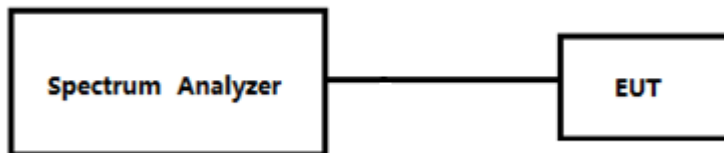
6.6 DUTY CYCLE

LIMIT

All measurements are to be performed with the EUT transmitting at 100% duty cycle at its maximum power control level; however, if 100% duty cycle cannot be achieved, measurements of duty cycle, x , and maximum-power transmission duration, T , are required for each tested mode of operation.

- T refers to the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
- Duty cycle (x), as used in this document, refers to the fraction of time over which the transmitter is on and is transmitting at its maximum power control level.
- The term “maximum power control level” is intended to distinguish between operating power levels of the EUT and differences in power levels of individual symbols that occur with some modulation types such as quadrature amplitude modulation (QAM). During testing, the EUT is not required to transmit continuously its highest possible *symbol* power level. Rather, it shall transmit all of the symbols and shall do so at the highest power control level (i.e., highest operating power level) of the EUT.

TEST CONFIGURATION



TEST METHOD

Measurements of duty cycle and transmission duration shall be performed using one of the following techniques:

- A diode detector and an oscilloscope that together have sufficiently short response time to permit accurate measurements of the on and off times of the transmitted signal.
789033 D02 General UNII Test Procedures New Rules v02r01 Page 3 .
- The zero-span mode on a spectrum analyzer or EMI receiver, if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the on and off times of the transmitted signal. Set the center frequency of the instrument to the center frequency of the transmission. Set $RBW \geq EBW$ if possible; otherwise, set RBW to the largest available value. Set $VBW \geq RBW$. Set detector = peak or average. The zero-span measurement method shall not be used unless both RBW and VBW are $> 50/T$, where T is defined in II.B.1.a), and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring duty cycle shall not be used if $T \leq 16.7$ microseconds.)

TEST RESULTS

PASS



Antenna 1:

Test Mode	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11A	5260	1.36	3.86	35.23
	5280	1.36	3.86	35.23
	5320	1.36	3.86	35.23
	5500	1.36	3.86	35.23
	5580	1.36	3.86	35.23
	5700	1.36	3.87	35.14
11N20SISO	5260	1.14	3.65	31.23
	5280	1.14	3.65	31.23
	5320	1.15	3.65	31.51
	5500	1.15	3.65	31.51
	5580	1.14	3.65	31.23
	5700	1.14	3.65	31.23
11N40SISO	5270	0.57	3.07	18.57
	5310	0.57	3.08	18.51
	5510	0.57	3.07	18.57
	5550	0.58	3.08	18.83
	5670	0.57	3.07	18.57
11AC20SISO	5260	1.16	3.66	31.69
	5280	1.15	3.65	31.51
	5320	1.15	3.66	31.42
	5500	1.15	3.65	31.51
	5580	1.16	3.66	31.69
	5700	1.16	3.66	31.69
11AC40SISO	5270	0.58	3.08	18.83
	5310	0.58	3.08	18.83
	5510	0.57	3.08	18.51
	5550	0.57	3.08	18.51
	5670	0.57	3.08	18.51
11AC80SISO	5290	0.29	2.79	10.39
	5530	0.29	2.80	10.36
	5610	0.29	2.79	10.39
11AX20SISO	5260	0.99	3.49	28.37
	5280	0.99	3.49	28.37
	5320	0.99	3.49	28.37
	5500	0.98	3.48	28.16
	5580	0.98	3.48	28.16
	5700	0.99	3.49	28.37
11AX40SISO	5270	0.52	3.02	17.22
	5310	0.52	3.02	17.22
	5510	0.52	3.02	17.22
	5550	0.52	3.02	17.22
	5670	0.52	3.02	17.22
11AX80SISO	5290	0.28	2.79	10.04
	5530	0.28	2.78	10.07
	5610	0.28	2.78	10.07



Antenna 2:

Test Mode	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11A	5260	1.36	3.86	35.23
	5280	1.36	3.86	35.23
	5320	1.35	3.86	34.97
	5500	1.36	3.86	35.23
	5580	1.36	3.86	35.23
	5700	1.36	3.86	35.23
11N20SISO	5260	1.15	3.65	31.51
	5280	1.15	3.65	31.51
	5320	1.15	3.66	31.42
	5500	1.15	3.65	31.51
	5580	1.15	3.65	31.51
	5700	1.15	3.65	31.51
11N40SISO	5270	0.57	3.07	18.57
	5310	0.58	3.08	18.83
	5510	0.57	3.07	18.57
	5550	0.57	3.07	18.57
	5670	0.57	3.07	18.57
	5700	0.57	3.07	18.57
11AC20SISO	5260	1.16	3.66	31.69
	5280	1.15	3.65	31.51
	5320	1.15	3.65	31.51
	5500	1.16	3.66	31.69
	5580	1.15	3.65	31.51
	5700	1.15	3.65	31.51
11AC40SISO	5270	0.58	3.08	18.83
	5310	0.57	3.07	18.57
	5510	0.58	3.08	18.83
	5550	0.58	3.08	18.83
	5670	0.58	3.08	18.83
	5700	0.58	3.08	18.83
11AC80SISO	5290	0.28	2.79	10.04
	5530	0.29	2.80	10.36
	5610	0.28	2.79	10.04
11AX20SISO	5260	0.98	3.48	28.16
	5280	0.99	3.49	28.37
	5320	0.98	3.48	28.16
	5500	0.99	3.49	28.37
	5580	0.99	3.49	28.37
	5700	0.98	3.48	28.16
11AX40SISO	5270	0.52	3.02	17.22
	5310	0.52	3.02	17.22
	5510	0.52	3.02	17.22
	5550	0.52	3.02	17.22
	5670	0.52	3.03	17.16
	5700	0.52	3.02	17.22
11AX80SISO	5290	0.28	2.78	10.07
	5530	0.28	2.78	10.07
	5610	0.28	2.78	10.07

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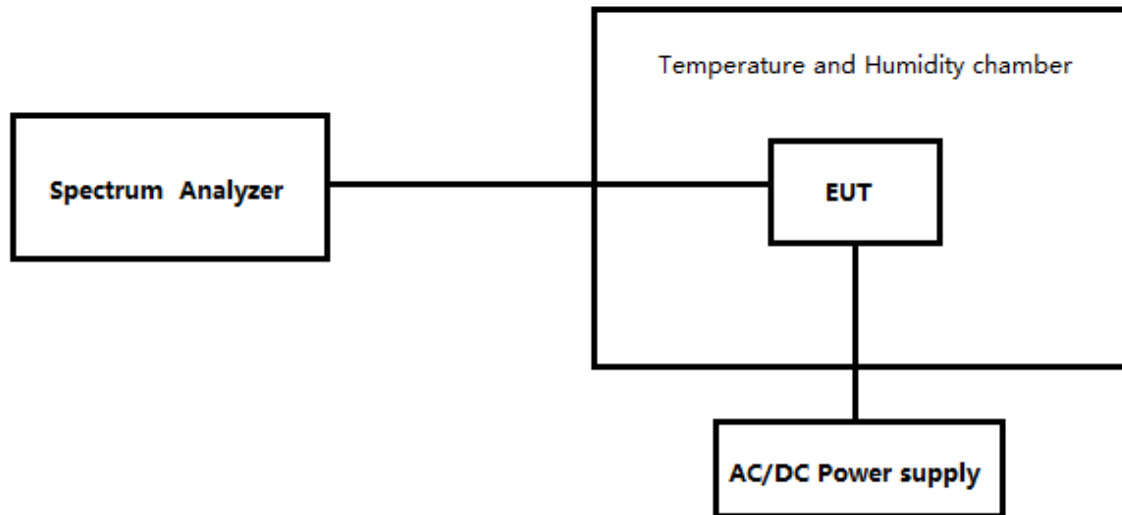


6.7 FREQUENCY STABILITY MEASUREMENT

LIMIT

According to §15.407(g), 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 user's manual.

TEST CONFIGURATION



TEST PROCEDURE

1. To ensure emission at the band edge is maintained within the authorized band, those values shall be measured by radiation emissions at upper and lower frequency points, and finally compensated by frequency deviation as procedures below.
2. The EUT was operated at the maximum output power, and connected to the spectrum analyzer, which is set to maximum hold function and peak detector. The peak value of the power envelope was measured and noted. The upper and lower frequency points were respectively measured relatively 10dB lower than the measured peak value.
3. The frequency deviation was calculated by adding the upper frequency point and the lower frequency point divided by two. Those detailed values of frequency deviation are provided in table below.

**TESTRESULTS**

Antenna 1

U-NII-1-(5250MHz-5350MHz)					
Freq.(MHz)	Center Frequency (MHz)	Frequency Deviation (MHz)	Frequency Stability (ppm)	Temperature (°C)	Voltage (V)
5260	5259.976	-0.024	-4.563	25	V _{min}
5260	5260.025	0.025	4.753	25	V _{max}
5260	5259.983	-0.017	-3.232	25	V _{nor}
5260	5259.936	-0.064	-12.167	-10	V _{nor}
5260	5260.010	0.010	1.901	40	V _{nor}

U-NII-1-(5470MHz-5725MHz)					
Freq.(MHz)	Center Frequency (MHz)	Frequency Deviation (MHz)	Frequency Stability (ppm)	Temperature (°C)	Voltage (V)
5500	5499.974	-0.026	-4.727	25	V _{min}
5500	5500.019	0.019	3.455	25	V _{max}
5500	5499.981	-0.019	-3.455	25	V _{nor}
5500	5499.988	-0.012	-2.182	-10	V _{nor}
5500	5500.028	0.028	5.091	40	V _{nor}

Antenna 2

U-NII-1-(5250MHz-5350MHz)					
Freq.(MHz)	Center Frequency (MHz)	Frequency Deviation (MHz)	Frequency Stability (ppm)	Temperature (°C)	Voltage (V)
5260	5260.031	0.031	5.894	25	V _{min}
5260	5260.024	0.024	4.563	25	V _{max}
5260	5259.981	-0.019	-3.612	25	V _{nor}
5260	5259.983	-0.017	-3.232	-10	V _{nor}
5260	5260.012	0.012	2.281	40	V _{nor}

U-NII-1-(5470MHz-5725MHz)					
Freq.(MHz)	Center Frequency (MHz)	Frequency Deviation (MHz)	Frequency Stability (ppm)	Temperature (°C)	Voltage (V)
5500	5500.019	0.019	3.455	25	V _{min}
5500	5500.022	0.022	4.000	25	V _{max}
5500	5499.984	-0.016	-2.909	25	V _{nor}
5500	5499.978	-0.022	-4.000	-10	V _{nor}
5500	5500.036	0.036	6.545	40	V _{nor}



6.8 RADIATED UNDESIRABLE EMISSION

LIMIT

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

- For transmitters operating in the 5250-5350 MHz band: all emissions outside of the 5150-5350 MHz band shall not exceed an EIRP of -27 dBm/MHz. Devices operating in the 5250-5350 MHz band that generate emissions in the 5150-5250 MHz band must meet all applicable technical requirements for operation in the 5150-5250 MHz band (including indoor use) or alternatively meet an out-of-band emission EIRP limit of -27 dBm/MHz in the 5150-5250 MHz band.

For transmitters operating in the 5470-5600 MHz and 5650-5725 MHz band: all emissions outside of the 5470-5600 MHz and 5650-5725 MHz band shall not exceed an EIRP of -27 dBm/MHz.

- KDB789033v02r01G)2)c) As specified in 15.407(b), emissions above 1000 MHz that are outside of the restricted bands are subject to a peak emission limit of -27 dBm/MHz (or -17 dBm/MHz as specified in 15.407(b)(4)). However, an out-of-band emission that complies with both the average and peak limits of 15.209 is not required to satisfy the -27 dBm/MHz or -17 dBm/MHz peak emission limit.
- According to §15.209(a), except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

FREQUENCIES(MHz)	FIELD STRENGTH (microvolt/meter)	MEASUREMENT DISTANCE(meters)
0.009~0.490	2400/F(kHz)	300
0.490~1.705	24000/F(kHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

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

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

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

Test Configuration

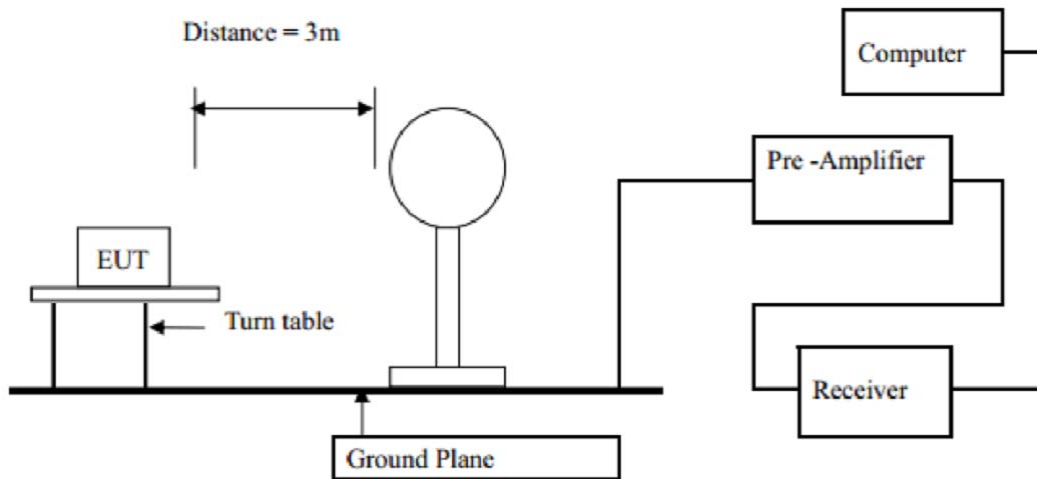
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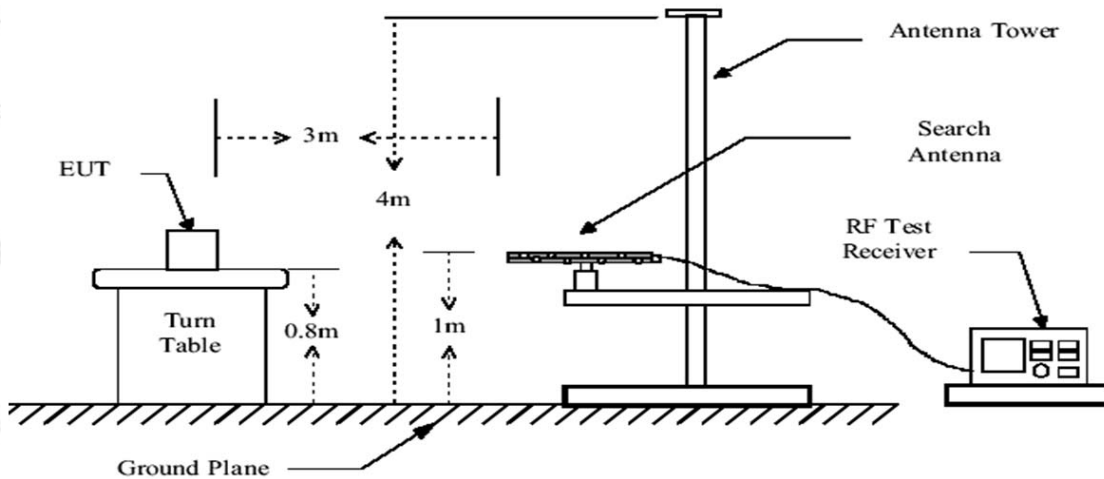
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Below 30MHz

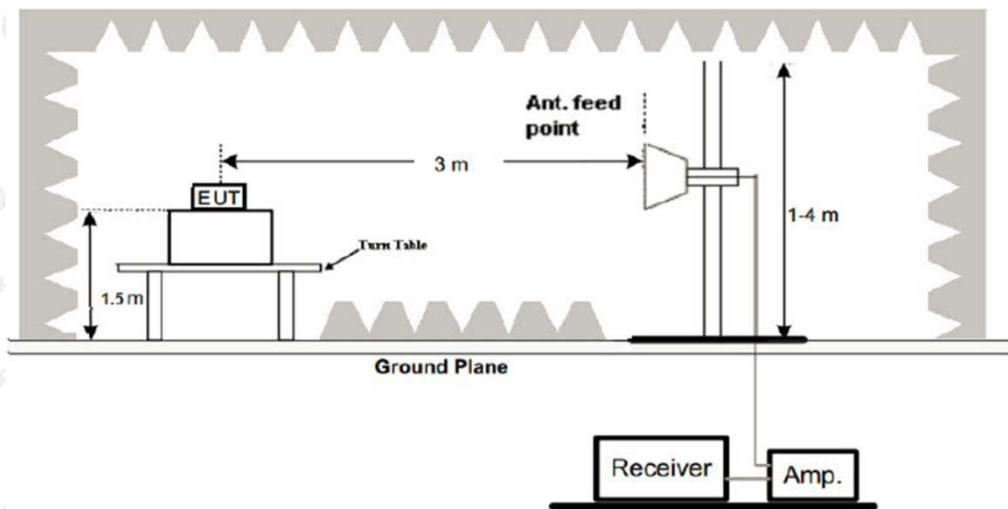


Below 1GHz





Above 1 GHz



TESTPROCEDURE

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

Below 1GHz:

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

Above 1GHz:

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

(b) AVERAGE: RBW=1MHz / Sweep=AUTO

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

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

Band	Duty Cycle(%)	T(ms)	1/T(kHz)	VBW Setting
IEEE 802.11 a	100	--	--	10Hz
IEEE 802.11n/ac/ax HT20	100	--	--	10Hz
IEEE 802.11n/ac/ax HT40	100	--	--	10Hz
IEEE 802.11ac/ax HT80	100	--	--	10Hz

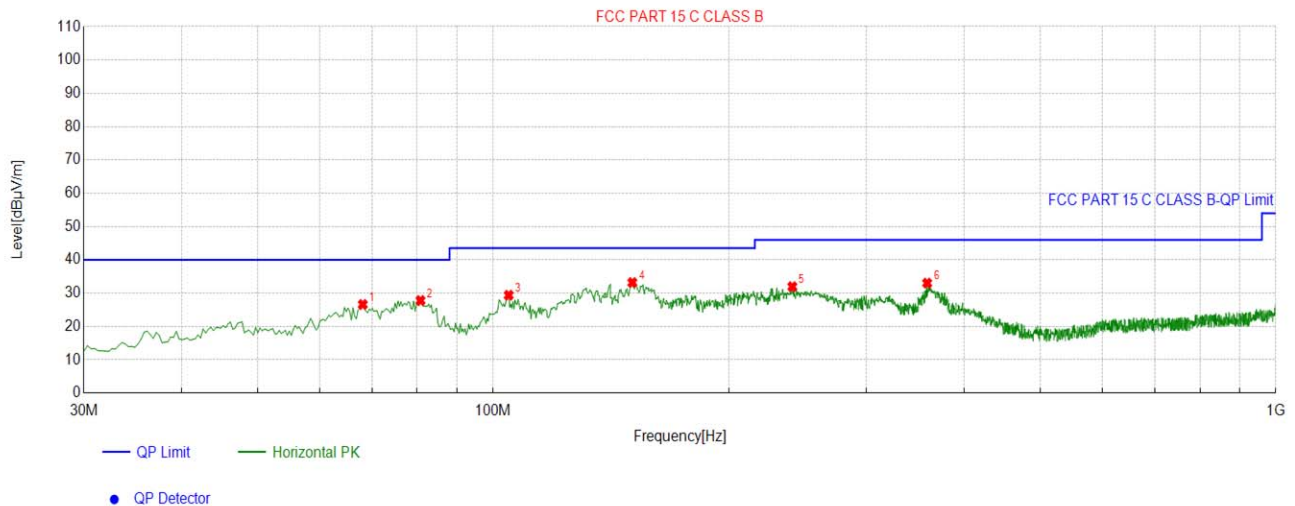
7. Repeat above procedures until the measurements for all frequencies are complete.



Please refer to following diagram for individual
Below 1GHz

All the test modes completed for test. only the worst result of reported as below:

Horizontal



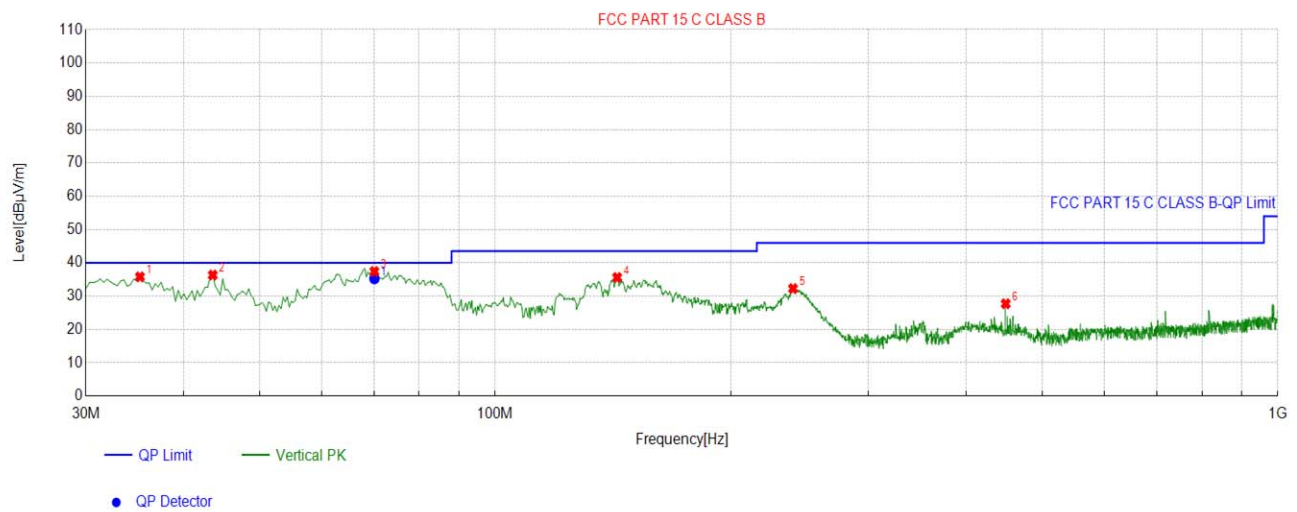
Suspected List

NO.	Freq. [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	68.1661	-15.14	41.73	26.59	40.00	13.41	100	244	Horizontal
2	80.7803	-17.35	45.13	27.78	40.00	12.22	100	337	Horizontal
3	104.7149	-14.70	44.07	29.37	43.50	14.13	100	158	Horizontal
4	150.6435	-18.48	51.65	33.17	43.50	10.33	100	230	Horizontal
5	241.2071	-12.98	44.91	31.93	46.00	14.07	100	76	Horizontal
6	358.6162	-10.73	43.74	33.01	46.00	12.99	100	103	Horizontal

Remark: Factor = Cable loss + Antenna factor – Preamplifier; Level = Reading + Factor; Margin = Limit – Level



Vertical



Suspected List

NO.	Freq. [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	35.1751	-15.76	51.55	35.79	40.00	4.21	100	147	Vertical
2	43.5845	-14.98	51.31	36.33	40.00	3.67	100	272	Vertical
3	70.1067	-15.69	53.09	37.40	40.00	2.60	100	9	Vertical
4	143.2044	-18.08	53.68	35.60	43.50	7.90	100	200	Vertical
5	240.2367	-12.99	45.24	32.25	46.00	13.75	100	13	Vertical
6	449.1797	-8.01	35.72	27.71	46.00	18.29	100	230	Vertical

Final Data List

NO.	Freq. [MHz]	Factor [dB]	QP Reading [dBμV/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	70.1067	-15.69	50.98	35.29	40.00	4.71	100	9	Vertical

Remark: Factor = Cable loss + Antenna factor – Preamplifier; Level = Reading + Factor; Margin = Limit – Level

Harmonics and Spurious Emissions

Frequency Range (9 kHz-30MHz)

Frequency (MHz)	Level@3m (dBμV/m)	Limit@3m (dBμV/m)
--	--	--
--	--	--
--	--	--
--	--	--

Note: 1. Emission Level=Reading+ Cable loss-Antenna factor-Amp factor

2. The emission levels are 20 dB below the limit value, which are not reported. It is deemed to comply with the requirement



Above 1 GHz
5250~5350MHz

Operation Mode: Tx / IEEE 802.11a mode **Low Channel**

Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Heigh (cm)	Degree (deg.)	Remark
1	10522.06	40.71	11.05	51.76	74.00	-22.24	100	125	peak
2	14649.01	35.69	16.53	52.22	74.00	-21.78	100	41	peak
N/A									

Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Heigh (cm)	Degree (deg.)	Remark
1	10644.75	39.58	11.53	51.11	74.00	-22.89	100	315	peak
2	15221.01	32.41	13.73	46.14	74.00	-27.86	100	258	peak
N/A									

Operation Mode: Tx / IEEE 802.11a mode **Mid Channel**

Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Heigh (cm)	Degree (deg.)	Remark
1	10563.26	42.74	11.21	53.95	74.00	-20.05	100	114	peak
2	14240.81	35.22	15.17	50.39	74.00	-23.61	100	127	peak
N/A									

Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Heigh (cm)	Degree (deg.)	Remark
1	11011.47	38.76	12.89	51.65	74.00	-22.35	100	214	peak
2	13258.76	38.41	14.10	52.51	74.00	-21.49	100	282	peak
N/A									

**Operation Mode:** Tx / IEEE 802.11a mode **High Channel****Horizontal**

No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	11012.01	37.28	12.89	50.17	74.00	-23.83	100	214	peak
2	16161.36	35.61	13.49	49.1	74.00	-24.9	100	210	peak
N/A									

Vertical

No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	12402.43	38.47	12.00	50.47	74.00	-23.53	100	152	peak
2	15466.33	35.77	10.77	46.54	74.00	-27.46	100	302	peak
N/A									



5470~5725MHz

Operation Mode:	Tx / IEEE 802.11a mode Low Channel
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Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	10522.11	40.88	11.05	51.93	74.00	-22.07	100	118	peak
2	14649.62	36.49	16.53	53.02	74.00	-20.98	100	53	peak
N/A									

Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	10644.19	39.52	11.53	51.05	74.00	-22.95	100	304	peak
2	15220.84	32.61	13.73	46.34	74.00	-27.66	100	271	peak
N/A									

Operation Mode:	Tx / IEEE 802.11a mode Mid Channel
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Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	10562.27	42.51	11.21	53.72	74.00	-20.28	100	105	peak
2	14240.86	34.37	15.17	49.54	74.00	-24.46	100	149	peak
N/A									

Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	11014.55	38.68	12.89	51.57	74.00	-22.43	100	152	peak
2	13259.18	39.29	14.10	53.39	74.00	-20.61	100	205	peak
N/A									



Operation Mode:	Tx / IEEE 802.11a mode High Channel
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Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	11022.69	37.55	12.89	50.44	74.00	-23.56	100	214	peak
2	16161.33	35.46	13.49	48.95	74.00	-25.05	100	210	peak
N/A									

Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	12402.45	38.69	12.00	50.69	74.00	-23.31	100	142	peak
2	15465.92	34.31	10.77	45.08	74.00	-28.92	100	239	peak
N/A									



5250~5350MHz

Operation Mode:	TX / IEEE 802.11n HT20mode /Low Channel
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Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	11134.72	40.41	12.54	52.95	74.00	-21.05	100	10	peak
2	13872.46	37.82	14.02	51.84	74.00	-22.16	100	183	peak
N/A									

Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	10971.33	38.71	12.81	51.52	74.00	-22.48	100	63	peak
2	13423.79	36.65	14.36	51.01	74.00	-22.99	100	112	peak
N/A									

Operation Mode:	TX / IEEE 802.11n HT20mode /Mid Channel
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Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	10563.35	41.65	11.21	52.86	74.00	-21.14	100	126	peak
2	16569.87	33.48	16.97	50.45	74.00	-23.55	100	339	peak
N/A									

Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	11216.78	39.71	12.31	52.02	74.00	-21.98	100	327	peak
2	13299.61	36.28	14.16	50.44	74.00	-23.56	100	82	peak
N/A									

**Operation Mode:** TX / IEEE 802.11n HT20mode /High Channel**Horizontal**

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	10480.67	40.74	10.86	51.60	74.00	-22.40	100	305	peak
2	14689.83	33.51	16.51	50.02	74.00	-23.98	100	25	peak
N/A									

Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	10848.02	38.28	12.33	50.61	74.00	-23.39	100	215	peak
2	16938.12	32.69	17.77	50.46	74.00	-23.54	100	328	peak
N/A									



5470~5725MHz

Operation Mode:	TX / IEEE 802.11n HT20mode /Low Channel
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Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	11134.66	40.46	12.54	53.00	74.00	-21.00	100	26	peak
2	13871.63	37.71	14.02	51.73	74.00	-22.27	100	128	peak
N/A									

Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	10970.66	38.82	12.81	51.63	74.00	-22.37	100	71	peak
2	13424.38	36.55	14.36	50.91	74.00	-23.09	100	149	peak
N/A									

Operation Mode:	TX / IEEE 802.11n HT20mode /Mid Channel
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Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	10562.45	40.62	11.21	51.83	74.00	-22.17	100	148	peak
2	16570.34	33.81	16.97	50.78	74.00	-23.22	100	315	peak
N/A									

Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	11217.47	40.46	12.31	52.77	74.00	-21.23	100	352	peak
2	13300.22	37.39	14.16	51.55	74.00	-22.45	100	94	peak
N/A									



Operation Mode:	TX / IEEE 802.11n HT20mode /High Channel
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Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	10480.03	40.74	10.86	51.60	74.00	-22.4	100	152	peak
2	14689.61	33.53	16.51	50.04	74.00	-23.96	100	74	peak
N/A									

Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	10848.11	38.91	12.33	51.24	74.00	-22.76	100	215	peak
2	16938.48	32.26	17.77	50.03	74.00	-23.97	100	301	peak
N/A									



5250~5350MHz

Operation Mode:	TX / IEEE 802.11n HT40mode /Low Channel
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Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	11256.39	38.82	12.19	51.01	74.00	-22.99	100	295	peak
2	14649.96	33.74	16.53	50.27	74.00	-23.73	100	217	peak
N/A									

Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	11133.97	40.65	12.54	53.19	74.00	-20.81	100	77	peak
2	13872.66	37.19	14.02	51.21	74.00	-22.79	100	282	peak
N/A									

Operation Mode:	TX / IEEE 802.11n HT40mode /High Channel
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Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	11216.53	40.31	12.31	52.62	74.00	-21.38	100	309	peak
2	17142.68	32.48	18.68	51.16	74.00	-22.84	100	175	peak
N/A									

Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	11093.19	38.55	12.66	51.21	74.00	-22.79	100	175	peak
2	13300.83	37.79	14.16	51.95	74.00	-22.05	100	205	peak
N/A									



5470~5725MHz

Operation Mode:	TX / IEEE 802.11n HT40mode /Low Channel
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Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	11257.12	39.62	12.19	51.81	74.00	-22.19	100	241	peak
2	14650.75	34.71	16.53	51.24	74.00	-22.76	100	269	peak
N/A									

Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	11134.34	40.83	12.54	53.37	74.00	-20.63	100	75	peak
2	13872.82	37.67	14.02	51.69	74.00	-22.31	100	241	peak
N/A									

Operation Mode:	TX / IEEE 802.11n HT40mode /Mid Channel
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Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	11255.77	37.69	12.19	49.88	74.00	-24.12	100	282	peak
2	14650.67	34.84	16.53	51.37	74.00	-22.63	100	243	peak
N/A									

Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	11134.89	40.75	12.54	53.29	74.00	-20.71	100	77	peak
2	13873.55	36.36	14.02	50.38	74.00	-23.62	100	282	peak
N/A									

**Operation Mode:** TX / IEEE 802.11n HT40mode /High Channel**Horizontal**

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	11215.61	40.74	12.31	53.05	74.00	-20.95	100	318	peak
2	17142.57	31.51	18.68	50.19	74.00	-23.81	100	194	peak
N/A									

Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	11092.48	38.69	12.66	51.35	74.00	-22.65	100	175	peak
2	13300.28	38.41	14.16	52.57	74.00	-21.43	100	205	peak
N/A									



5250~5350MHz

Operation Mode:	TX / IEEE 802.11ac HT20mode /Low Channel
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Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	11134.72	40.64	12.54	53.18	74.00	-20.82	100	10	peak
2	13872.46	37.51	14.02	51.53	74.00	-22.47	100	183	peak
N/A									

Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	10971.33	38.73	12.81	51.54	74.00	-22.46	100	63	peak
2	13423.79	36.88	14.36	51.24	74.00	-22.76	100	112	peak
N/A									

Operation Mode:	TX / IEEE 802.11ac HT20mode /Mid Channel
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Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	10563.35	41.79	11.21	53.00	74.00	-21.00	100	126	peak
2	16569.87	33.42	16.97	50.39	74.00	-23.61	100	339	peak
N/A									

Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	11216.78	39.65	12.31	51.96	74.00	-22.04	100	327	peak
2	13299.61	36.33	14.16	50.49	74.00	-23.51	100	82	peak
N/A									



Operation Mode:	TX / IEEE 802.11ac HT20mode /High Channel
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Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	10480.67	40.41	10.86	51.27	74.00	-22.73	100	305	peak
2	14689.83	33.36	16.51	49.87	74.00	-24.13	100	25	peak
N/A									

Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	10848.02	38.85	12.33	51.18	74.00	-22.82	100	215	peak
2	16938.12	32.71	17.77	50.48	74.00	-23.52	100	328	peak
N/A									



5470~5725MHz

Operation Mode:	TX / IEEE 802.11ac HT20mode /Low Channel
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Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	11134.66	40.67	12.54	53.21	74.00	-20.79	100	26	peak
2	13871.63	37.43	14.02	51.45	74.00	-22.55	100	128	peak
N/A									

Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	10970.66	38.82	12.81	51.63	74.00	-22.37	100	71	peak
2	13424.38	36.55	14.36	50.91	74.00	-23.09	100	149	peak
N/A									

Operation Mode:	TX / IEEE 802.11ac HT20mode /Mid Channel
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Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	10562.45	40.29	11.21	51.50	74.00	-22.50	100	148	peak
2	16570.34	33.37	16.97	50.34	74.00	-23.66	100	315	peak
N/A									

Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	11217.47	40.64	12.31	52.95	74.00	-21.05	100	352	peak
2	13300.22	37.58	14.16	51.74	74.00	-22.26	100	94	peak
N/A									



Operation Mode:	TX / IEEE 802.11ac HT20mode /High Channel
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Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	10480.03	40.83	10.86	51.69	74.00	-22.31	100	152	peak
2	14689.61	33.52	16.51	50.03	74.00	-23.97	100	74	peak
N/A									

Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	10848.11	38.79	12.33	51.12	74.00	-22.88	100	215	peak
2	16938.48	32.66	17.77	50.43	74.00	-23.57	100	301	peak
N/A									



5250~5350MHz

Operation Mode:	TX / IEEE 802.11ac HT40mode /Low Channel
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Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	11256.39	38.73	12.19	50.92	74.00	-23.08	100	295	peak
2	14649.96	33.28	16.53	49.81	74.00	-24.19	100	217	peak
N/A									

Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	11133.97	40.69	12.54	53.23	74.00	-20.77	100	77	peak
2	13872.66	37.57	14.02	51.59	74.00	-22.41	100	282	peak
N/A									

Operation Mode:	TX / IEEE 802.11ac HT40mode /High Channel
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Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	11216.53	40.47	12.31	52.78	74.00	-21.22	100	309	peak
2	17142.68	32.61	18.68	51.29	74.00	-22.71	100	175	peak
N/A									

Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	11093.19	38.87	12.66	51.53	74.00	-22.47	100	175	peak
2	13300.83	37.59	14.16	51.75	74.00	-22.25	100	205	peak
N/A									



5470~5725MHz

Operation Mode:	TX / IEEE 802.11ac HT40mode /Low Channel
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Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	11257.12	39.36	12.19	51.55	74.00	-22.45	100	241	peak
2	14650.75	34.19	16.53	50.72	74.00	-23.28	100	269	peak
N/A									

Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	11134.34	40.52	12.54	53.06	74.00	-20.94	100	75	peak
2	13872.82	37.26	14.02	51.28	74.00	-22.72	100	241	peak
N/A									

Operation Mode:	TX / IEEE 802.11ac HT40mode /Mid Channel
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Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	11255.77	37.65	12.19	49.84	74.00	-24.16	100	282	peak
2	14650.67	34.21	16.53	50.74	74.00	-23.26	100	243	peak
N/A									

Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	11134.89	40.74	12.54	53.28	74.00	-20.72	100	77	peak
2	13873.55	36.39	14.02	50.41	74.00	-23.59	100	282	peak
N/A									



Operation Mode:	TX / IEEE 802.11ac HT40mode /High Channel
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Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	11215.61	40.62	12.31	52.93	74.00	-21.07	100	318	peak
2	17142.57	31.58	18.68	50.26	74.00	-23.74	100	194	peak
N/A									

Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	11092.48	38.71	12.66	51.37	74.00	-22.63	100	175	peak
2	13300.28	38.19	14.16	52.35	74.00	-21.65	100	205	peak
N/A									



5250~5350MHz

Operation Mode:	TX / IEEE 802.11ac HT80mode
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Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	11216.53	38.74	12.19	50.93	74.00	-23.07	100	309	peak
2	17142.68	33.55	16.53	50.08	74.00	-23.92	100	175	peak
N/A									

Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	11093.19	40.69	12.54	53.23	74.00	-20.77	100	175	peak
2	13300.83	37.31	14.02	51.33	74.00	-22.67	100	205	peak
N/A									



5470~5725MHz

Operation Mode:	TX / IEEE 802.11ac HT80mode /Low Channel
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Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	11216.75	39.57	12.19	51.76	74.00	-22.24	100	241	peak
2	17141.98	34.31	16.53	50.84	74.00	-23.16	100	183	peak
N/A									

Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	11093.47	40.85	12.54	53.39	74.00	-20.61	100	124	peak
2	13299.85	37.41	14.02	51.43	74.00	-22.57	100	283	peak
N/A									

Operation Mode:	TX / IEEE 802.11ac HT80mode /High Channel
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Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	11215.61	40.74	12.31	53.05	74.00	-20.95	100	318	peak
2	17142.57	31.36	18.68	50.04	74.00	-23.96	100	194	peak
N/									

Vertical

No	Frequenc (MHz)	Readin (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margi (dB)	Heigh (cm)	Degre (deg.)	Remark
1	11092.48	38.59	12.66	51.25	74.00	-22.75	100	175	peak
2	13300.28	38.22	14.16	52.38	74.00	-21.62	100	205	peak
N/									



5250~5350MHz

Operation Mode:	TX / IEEE 802.11ax HT20mode /Low Channel
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Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	11134.72	40.46	12.54	53.00	74.00	-21.00	100	10	peak
2	13872.46	37.52	14.02	51.54	74.00	-22.46	100	183	peak
N/A									

Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	10971.33	38.67	12.81	51.48	74.00	-22.52	100	63	peak
2	13423.79	36.29	14.36	50.65	74.00	-23.35	100	112	peak
N/A									

Operation Mode:	TX / IEEE 802.11ax HT20mode /Mid Channel
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Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	10563.35	41.46	11.21	52.67	74.00	-21.33	100	126	peak
2	16569.87	33.58	16.97	50.55	74.00	-23.45	100	339	peak
N/A									

Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	11216.78	39.76	12.31	52.07	74.00	-21.93	100	327	peak
2	13299.61	36.57	14.16	50.73	74.00	-23.27	100	82	peak
N/A									



Operation Mode:	TX / IEEE 802.11ax HT20mode /High Channel
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Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	10480.67	40.69	10.86	51.55	74.00	-22.45	100	305	peak
2	14689.83	33.45	16.51	49.96	74.00	-24.04	100	25	peak
N/A									

Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	10848.02	38.82	12.33	51.15	74.00	-22.85	100	215	peak
2	16938.12	32.63	17.77	50.40	74.00	-23.60	100	328	peak
N/A									



5470~5725MHz

Operation Mode:	TX / IEEE 802.11ax HT20mode /Low Channel
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Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	11134.66	40.66	12.54	53.20	74.00	-20.80	100	26	peak
2	13871.63	37.35	14.02	51.37	74.00	-22.63	100	128	peak
N/A									

Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	10970.66	38.75	12.81	51.56	74.00	-22.44	100	71	peak
2	13424.38	36.28	14.36	50.64	74.00	-23.36	100	149	peak
N/A									

Operation Mode:	TX / IEEE 802.11ax HT20mode /Mid Channel
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Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	10562.45	40.71	11.21	51.92	74.00	-22.08	100	148	peak
2	16570.34	33.28	16.97	50.25	74.00	-23.75	100	315	peak
N/A									

Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	11217.47	40.49	12.31	52.80	74.00	-21.20	100	352	peak
2	13300.22	37.37	14.16	51.53	74.00	-22.47	100	94	peak
N/A									



Operation Mode:	TX / IEEE 802.11ax HT20mode /High Channel
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Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	10480.03	40.28	10.86	51.14	74.00	-22.86	100	152	peak
2	14689.61	33.67	16.51	50.18	74.00	-23.82	100	74	peak
N/A									

Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	10848.11	38.93	12.33	51.26	74.00	-22.74	100	215	peak
2	16938.48	32.24	17.77	50.01	74.00	-23.99	100	301	peak
N/A									

**5250~5350MHz**

Operation Mode:	TX / IEEE 802.11ax HT40mode /Low Channel
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Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	11256.39	38.77	12.19	50.96	74.00	-23.04	100	295	peak
2	14649.96	33.25	16.53	49.78	74.00	-24.22	100	217	peak
N/A									

Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	11133.97	40.61	12.54	53.15	74.00	-20.85	100	77	peak
2	13872.66	37.74	14.02	51.76	74.00	-22.24	100	282	peak
N/A									

Operation Mode:	TX / IEEE 802.11ax HT40mode /High Channel
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Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	11216.53	40.57	12.31	52.88	74.00	-21.12	100	309	peak
2	17142.68	32.61	18.68	51.29	74.00	-22.71	100	175	peak
N/A									

Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	11093.19	38.79	12.66	51.45	74.00	-22.55	100	175	peak
2	13300.83	37.46	14.16	51.62	74.00	-22.38	100	205	peak
N/A									



5470~5725MHz

Operation Mode:	TX / IEEE 802.11ax HT40mode /Low Channel
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Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	11257.12	39.47	12.19	51.66	74.00	-22.34	100	241	peak
2	14650.75	34.31	16.53	50.84	74.00	-23.16	100	269	peak
N/A									

Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	11134.34	40.89	12.54	53.43	74.00	-20.57	100	75	peak
2	13872.82	37.27	14.02	51.29	74.00	-22.71	100	241	peak
N/A									

Operation Mode:	TX / IEEE 802.11ax HT40mode /Mid Channel
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Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	11255.77	37.69	12.19	49.88	74.00	-24.12	100	282	peak
2	14650.67	34.25	16.53	50.78	74.00	-23.22	100	243	peak
N/A									

Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	11134.89	40.43	12.54	52.97	74.00	-21.03	100	77	peak
2	13873.55	36.18	14.02	50.20	74.00	-23.80	100	282	peak
N/A									

**Operation Mode:** TX / IEEE 802.11ax HT40mode /High Channel**Horizontal**

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	11215.61	40.69	12.31	53.00	74.00	-21.00	100	318	peak
2	17142.57	31.25	18.68	49.93	74.00	-24.07	100	194	peak
N/A									

Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	11092.48	38.73	12.66	51.39	74.00	-22.61	100	175	peak
2	13300.28	38.44	14.16	52.60	74.00	-21.40	100	205	peak
N/A									

**5250~5350MHz**

Operation Mode:	TX / IEEE 802.11ax HT80mode
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Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	11216.53	38.78	12.19	50.97	74.00	-23.03	100	309	peak
2	17142.68	33.65	16.53	50.18	74.00	-23.82	100	175	peak
N/A									

Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	11093.19	40.77	12.54	53.31	74.00	-20.69	100	175	peak
2	13300.83	37.19	14.02	51.21	74.00	-22.79	100	205	peak
N/A									



5470~5725MHz

Operation Mode:	TX / IEEE 802.11ax HT80mode /Low Channel
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Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	11216.75	39.46	12.19	51.65	74.00	-22.35	100	241	peak
2	17141.98	34.31	16.53	50.84	74.00	-23.16	100	183	peak
N/A									

Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	11093.47	40.58	12.54	53.12	74.00	-20.88	100	124	peak
2	13299.85	37.61	14.02	51.63	74.00	-22.37	100	283	peak
N/A									

Operation Mode:	TX / IEEE 802.11ax HT80mode /High Channel
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Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	11215.61	40.87	12.31	53.18	74.00	-20.82	100	318	peak
2	17142.57	31.29	18.68	49.97	74.00	-24.03	100	194	peak
N/									

Vertical

No	Frequenc (MHz)	Readin (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margi (dB)	Heigh (cm)	Degre (deg.)	Remark
1	11092.48	38.71	12.66	51.37	74.00	-22.63	100	175	peak
2	13300.28	38.34	14.16	52.50	74.00	-21.50	100	205	peak
N/									



Radiated Band Edge Test:

ANT 1

Operation Mode: 802.11a Mode with 5.3G TX CH High

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5350	52.19	-2.49	49.7	74	-24.3	peak
5350	/	-2.49	/	54	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5350	54.37	-2.49	51.88	74	-22.12	peak
5350	/	-2.49	/	54	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Operation Mode: 802.11n20 Mode with 5.3G TX CH High

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5350	53.66	-2.49	51.17	74	-22.83	peak
5350	/	-2.49	/	54	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5350	55.17	-2.49	52.68	74	-21.32	peak
5350	/	-2.49	/	54	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



Operation Mode: 802.11 n40 Mode with 5.3G TX CH High

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5150	53.09	-2.49	50.6	74	-23.4	peak
5150	/	-2.49	/	54	/	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5350	55.84	-2.49	53.35	74	-20.65	peak
5350	/	-2.49	/	54	/	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Operation Mode: 802.11ac20 Mode with 5.3G TX CH High

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5350	53.69	-2.49	51.2	74	-22.8	peak
5350	/	-2.49	/	54	/	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5350	52.07	-2.49	49.58	74	-24.42	peak
5350	/	-2.49	/	54	/	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



Operation Mode: 802.11 ac 40 Mode with 5.3G TX CH High

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5150	54.67	-2.49	52.18	74	-21.82	peak
5150	/	-2.49	/	54	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5350	52.94	-2.49	50.45	74	-23.55	peak
5350	/	-2.49	/	54	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Operation Mode: 802.11 ac 80 Mode with 5.3G TX CH High

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5290	53.71	-2.49	51.22	74	-22.78	peak
5290	/	-2.49	/	54	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5290	51.89	-2.49	49.4	74	-24.6	peak
5290	/	-2.49	/	54	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



Operation Mode: 802.11ax20 Mode with 5.3G TX CH High

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5350	54.79	-2.49	52.3	74	-21.7	peak
5350	/	-2.49	/	54	/	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5350	52.88	-2.49	50.39	74	-23.61	peak
5350	/	-2.49	/	54	/	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Operation Mode: 802.11 ax 40 Mode with 5.3G TX CH High

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5150	51.46	-2.49	48.97	74	-25.03	peak
5150	/	-2.49	/	54	/	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5350	53.69	-2.49	51.2	74	-22.8	peak
5350	/	-2.49	/	54	/	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



Operation Mode: 802.11 ax 80 Mode with 5.3G TX CH High

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5290	53.47	-2.49	50.98	74	-23.02	peak
5290	/	-2.49	/	54	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5290	51.85	-2.49	49.36	74	-24.64	peak
5290	/	-2.49	/	54	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



Operation Mode: 802.11a Mode with 5.6G TX CH Low

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5470	52.06	-2.49	49.57	74	-24.43	peak
5470	/	-2.49	/	54	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5470	53.14	-2.49	50.65	74	-23.35	peak
5470	/	-2.49	/	54	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Operation Mode: 802.11n20 Mode with 5.6G TX CH Low

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5470	52.89	-2.49	50.4	74	-23.6	peak
5470	/	-2.49	/	54	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5470	50.47	-2.49	47.98	74	-26.02	peak
5470	/	-2.49	/	54	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



Operation Mode: 802.11 n40 Mode with 5.6G TX CH Low

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5470	53.67	-2.49	51.18	74	-22.82	peak
5470	/	-2.49	/	54	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5470	52.89	-2.49	50.4	74	-23.6	peak
5470	/	-2.49	/	54	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Operation Mode: 802.11ac 20 Mode with 5.6G TX CH Low

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5470	54.15	-2.49	51.66	74	-22.34	peak
5470	/	-2.49	/	54	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5470	52.06	-2.49	49.57	74	-24.43	peak
5470	/	-2.49	/	54	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



Operation Mode: 802.11 ac 40 Mode with 5.6G TX CH Low

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5470	52.94	-2.49	50.45	74	-23.55	peak
5470	/	-2.49	/	54	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5470	53.19	-2.49	50.7	74	-23.3	peak
5470	/	-2.49	/	54	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Operation Mode: 802.11 ac 80 Mode with 5.6G TX CH Low

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5610	51.22	-2.49	48.73	74	-25.27	peak
5610	/	-2.49	/	54	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5610	54.08	-2.49	51.59	74	-22.41	peak
5610	/	-2.49	/	54	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



Operation Mode: 802.11ax 20 Mode with 5.6G TX CH Low

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5470	53.71	-2.49	51.22	74	-22.78	peak
5470	/	-2.49	/	54	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5470	56.04	-2.49	53.55	74	-20.45	peak
5470	/	-2.49	/	54	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Operation Mode: 802.11 ax 40 Mode with 5.6G TX CH Low

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5470	52.85	-2.49	50.36	74	-23.64	peak
5470	/	-2.49	/	54	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5470	50.91	-2.49	48.42	74	-25.58	peak
5470	/	-2.49	/	54	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



Operation Mode: 802.11 ax 80 Mode with 5.6G TX CH Low

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5610	51.85	-2.49	49.36	74	-24.64	peak
5610	/	-2.49	/	54	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5610	53.28	-2.49	50.79	74	-23.21	peak
5610	/	-2.49	/	54	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

**ANT 2**

Operation Mode: 802.11a Mode with 5.3G TX CH High

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5350	54.67	-2.49	52.18	74	-21.82	peak
5350	/	-2.49	/	54	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5350	52.18	-2.49	49.69	74	-24.31	peak
5350	/	-2.49	/	54	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Operation Mode: 802.11n20 Mode with 5.3G TX CH High

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5350	53.82	-2.49	51.33	74	-22.67	peak
5350	/	-2.49	/	54	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5350	51.99	-2.49	49.5	74	-24.5	peak
5350	/	-2.49	/	54	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



Operation Mode: 802.11 n40 Mode with 5.3G TX CH High

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5150	54.31	-2.49	51.82	74	-22.18	peak
5150	/	-2.49	/	54	/	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5350	51.85	-2.49	49.36	74	-24.64	peak
5350	/	-2.49	/	54	/	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Operation Mode: 802.11ac20 Mode with 5.3G TX CH High

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5350	53.84	-2.49	51.35	74	-22.65	peak
5350	/	-2.49	/	54	/	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5350	51.67	-2.49	49.18	74	-24.82	peak
5350	/	-2.49	/	54	/	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



Operation Mode: 802.11 ac 40 Mode with 5.3G TX CH High

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5150	53.16	-2.49	50.67	74	-23.33	peak
5150	/	-2.49	/	54	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5350	54.17	-2.49	51.68	74	-22.32	peak
5350	/	-2.49	/	54	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Operation Mode: 802.11 ac 80 Mode with 5.3G TX CH High

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5290	55.01	-2.49	52.52	74	-21.48	peak
5290	/	-2.49	/	54	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5290	53.65	-2.49	51.16	74	-22.84	peak
5290	/	-2.49	/	54	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



Operation Mode: 802.11ax20 Mode with 5.3G TX CH High

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5350	53.17	-2.49	50.68	74	-23.32	peak
5350	/	-2.49	/	54	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5350	51.85	-2.49	49.36	74	-24.64	peak
5350	/	-2.49	/	54	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Operation Mode: 802.11 ax 40 Mode with 5.3G TX CH High

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5150	55.21	-2.49	52.72	74	-21.28	peak
5150	/	-2.49	/	54	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5350	53.19	-2.49	50.7	74	-23.3	peak
5350	/	-2.49	/	54	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



Operation Mode: 802.11 ax 80 Mode with 5.3G TX CH High

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5290	54.22	-2.49	51.73	74	-22.27	peak
5290	/	-2.49	/	54	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5290	52.76	-2.49	50.27	74	-23.73	peak
5290	/	-2.49	/	54	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



Operation Mode: 802.11a Mode with 5.6G TX CH Low

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5470	53.46	-2.49	50.97	74	-23.03	peak
5470	/	-2.49	/	54	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5470	52.87	-2.49	50.38	74	-23.62	peak
5470	/	-2.49	/	54	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Operation Mode: 802.11n20 Mode with 5.6G TX CH Low

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5470	52.17	-2.49	49.68	74	-24.32	peak
5470	/	-2.49	/	54	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5470	54.33	-2.49	51.84	74	-22.16	peak
5470	/	-2.49	/	54	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



Operation Mode: 802.11 n40 Mode with 5.6G TX CH Low

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5470	53.67	-2.49	51.18	74	-22.82	peak
5470	/	-2.49	/	54	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5470	52.85	-2.49	50.36	74	-23.64	peak
5470	/	-2.49	/	54	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Operation Mode: 802.11ac 20 Mode with 5.6G TX CH Low

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5470	54.77	-2.49	52.28	74	-21.72	peak
5470	/	-2.49	/	54	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5470	50.36	-2.49	47.87	74	-26.13	peak
5470	/	-2.49	/	54	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



Operation Mode: 802.11 ac 40 Mode with 5.6G TX CH Low

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5470	56.21	-2.49	53.72	74	-20.28	peak
5470	/	-2.49	/	54	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5470	52.47	-2.49	49.98	74	-24.02	peak
5470	/	-2.49	/	54	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Operation Mode: 802.11 ac 80 Mode with 5.6G TX CH Low

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5610	55.12	-2.49	52.63	74	-21.37	peak
5610	/	-2.49	/	54	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5610	53.74	-2.49	51.25	74	-22.75	peak
5610	/	-2.49	/	54	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



Operation Mode: 802.11ax 20 Mode with 5.6G TX CH Low

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5470	54.27	-2.49	51.78	74	-22.22	peak
5470	/	-2.49	/	54	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5470	50.96	-2.49	48.47	74	-25.53	peak
5470	/	-2.49	/	54	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Operation Mode: 802.11 ax 40 Mode with 5.6G TX CH Low

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5470	54.85	-2.49	52.36	74	-21.64	peak
5470	/	-2.49	/	54	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5470	52.33	-2.49	49.84	74	-24.16	peak
5470	/	-2.49	/	54	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



Operation Mode: 802.11 ax 80 Mode with 5.6G TX CH Low

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5610	56.12	-2.49	53.63	74	-20.37	peak
5610	/	-2.49	/	54	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5610	55.24	-2.49	52.75	74	-21.25	peak
5610	/	-2.49	/	54	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



6.9 POWERLINE CONDUCTED EMISSIONS

LIMIT

According to §15.207(a), except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

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

* Decreases with the logarithm of the frequency.

TEST CONFIGURATION

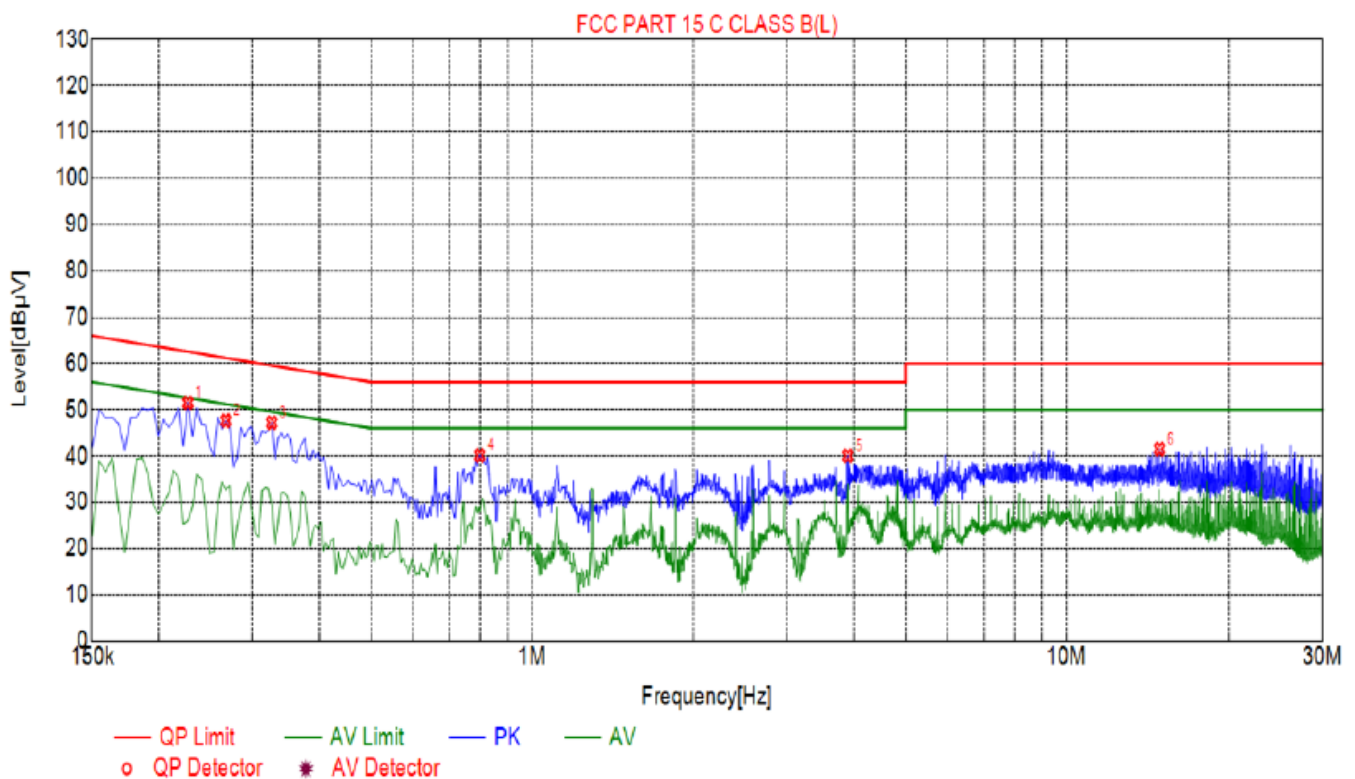
See test photographs attached in Appendix 1 for the actual connections between EUT and support equipment.

TEST PROCEDURE

11. The EUT was placed on a table, which is 0.8m above ground plane.
12. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
13. Repeat above procedures until all frequency measured were complete.

TEST RESULTS

The initial step in collecting conducted data is a spectrum analyzer peaks can of the measurement range. Significant peaks are then marked as shown on the following data page, and these signals are then quasi-peaked.

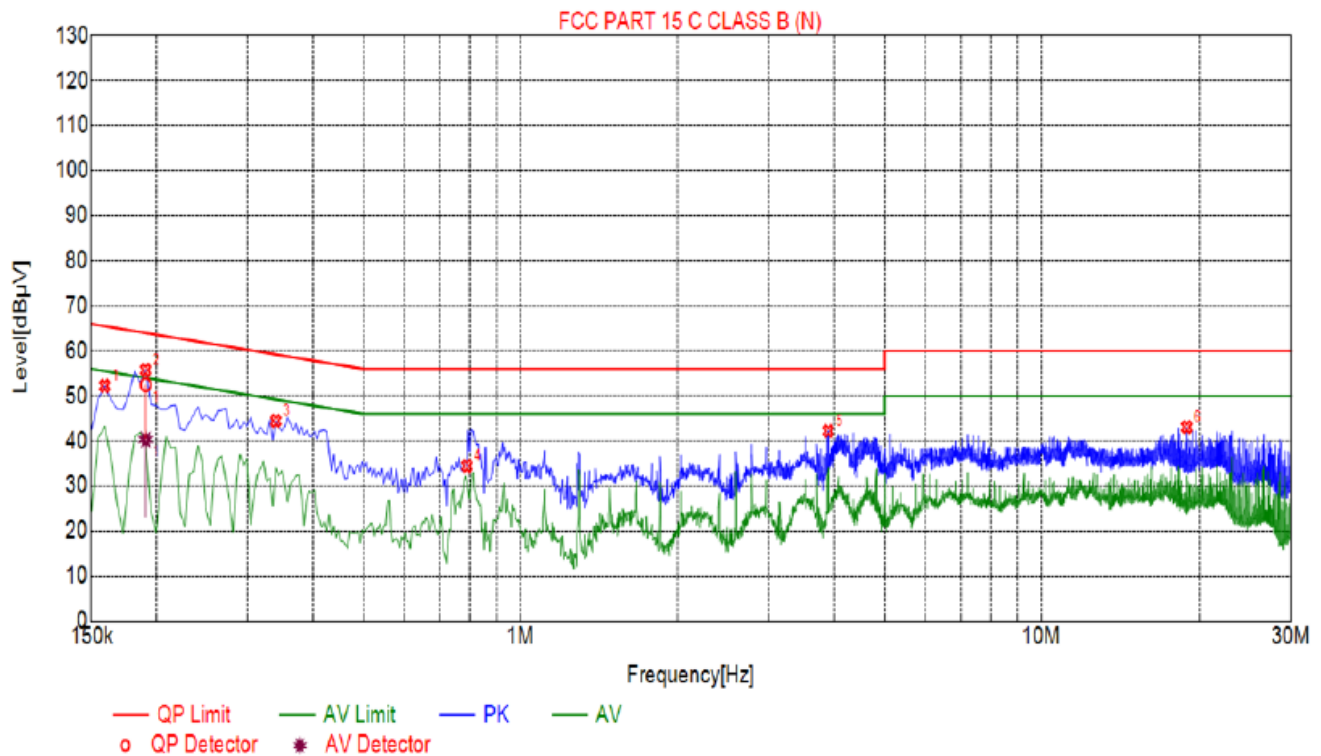
**Test Data****Suspected List**

NO.	Freq. [MHz]	Level [dBμV]	Factor [dB]	Limit [dBμV]	Margin [dB]	Reading [dBμV]	Detector	Type
1	0.2265	51.51	20.03	62.58	11.07	31.48	PK	L
2	0.2670	47.64	20.03	61.21	13.57	27.61	PK	L
3	0.3255	47.20	20.05	59.57	12.37	27.15	PK	L
4	0.7980	40.18	20.06	56.00	15.82	20.12	PK	L
5	3.8985	40.10	20.25	56.00	15.90	19.85	PK	L
6	14.8515	41.51	19.95	60.00	18.49	21.56	PK	L

Remark: Margin = Limit – Level

Correction factor = Cable lose + LISN insertion loss

Level=Test receiver reading + correction factor



Suspected List

NO.	Freq. [MHz]	Level [dBμV]	Factor [dB]	Limit [dBμV]	Margin [dB]	Reading [dBμV]	Detector	Type
1	0.1590	52.24	20.01	65.52	13.28	32.23	PK	N
2	0.1905	55.78	20.04	64.01	8.23	35.74	PK	N
3	0.3390	44.45	20.03	59.23	14.78	25.89	PK	N
4	0.7890	34.43	20.05	56.00	21.57	24.53	PK	N
5	3.8985	42.22	20.25	56.00	13.78	21.97	PK	N
6	18.9150	43.06	20.06	60.00	16.94	23.00	PK	N

Final Data List

NO.	Freq. [MHz]	Correction factor[dB]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	QP Reading [dBμV]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	AV Reading [dBμV]	Type
1	0.1905	20.04	52.49	64.01	11.52	32.45	40.28	54.01	13.73	20.24	N

Remark: Margin = Limit – Level

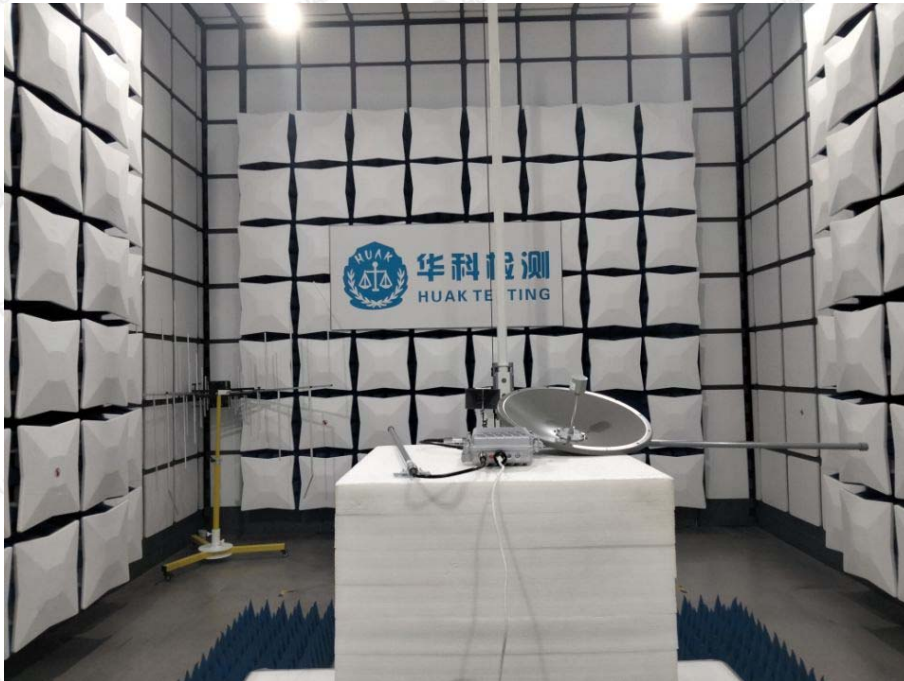
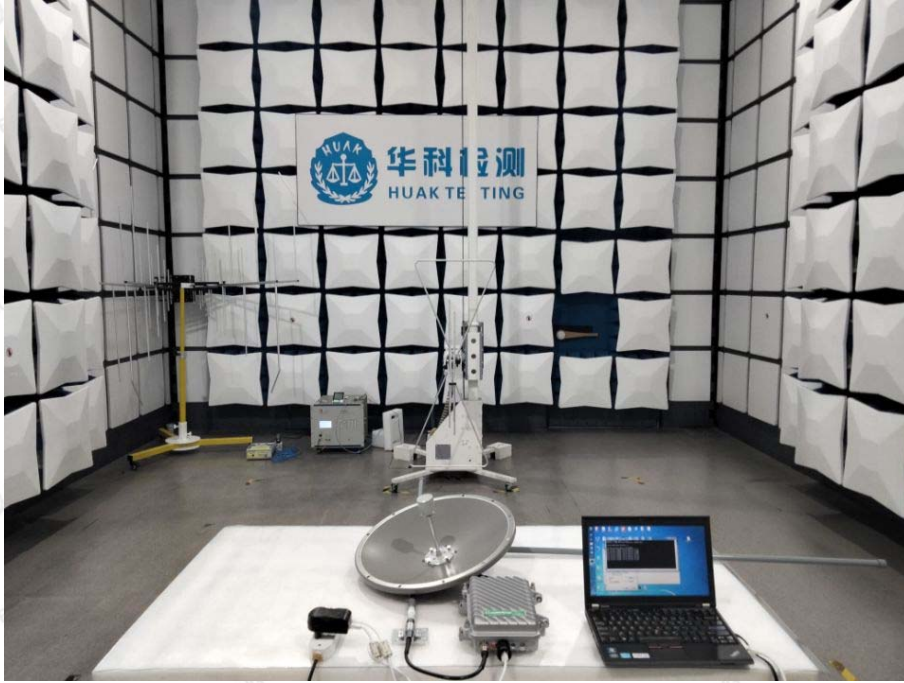
Correction factor = Cable lose + LISN insertion loss

Level=Test receiver reading + correction factor



7. PHOTOGRAPHS OF TEST SETUP

Radiated Emission

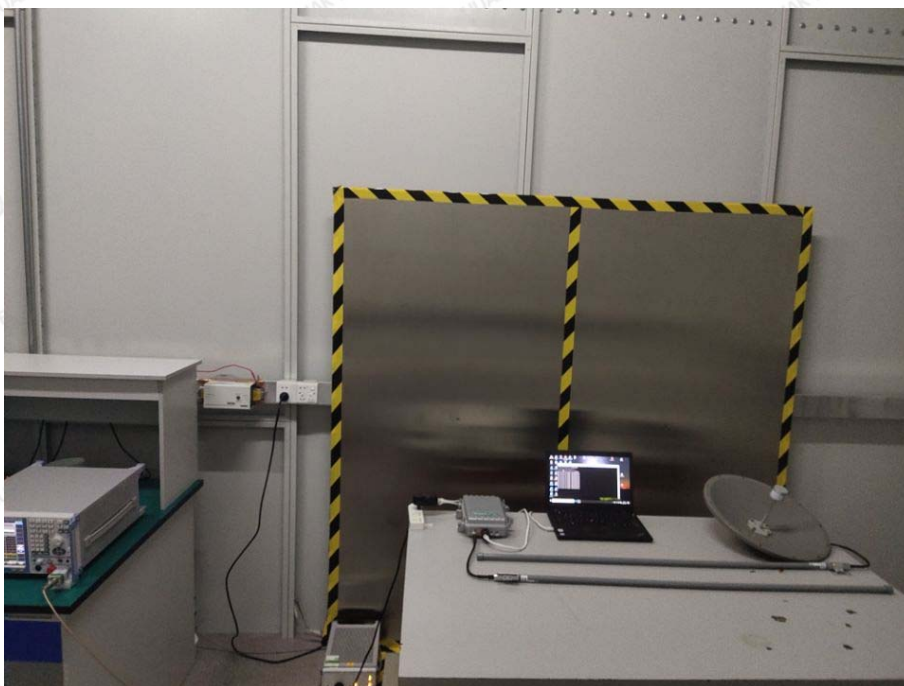


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Conducted Emission



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8. PHOTOS OF THE EUT

Reference to the report: ANNEX A of external photos and ANNEX B of internal photos

-----End of test report-----

