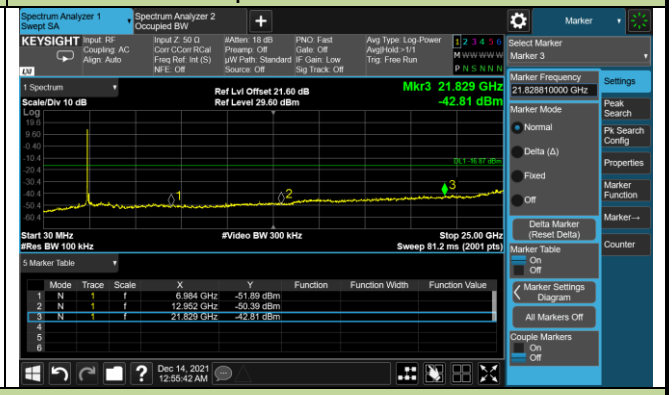
802.11b Out-of-Band Emissions - Ant 1

Channel 01 (2412MHz)

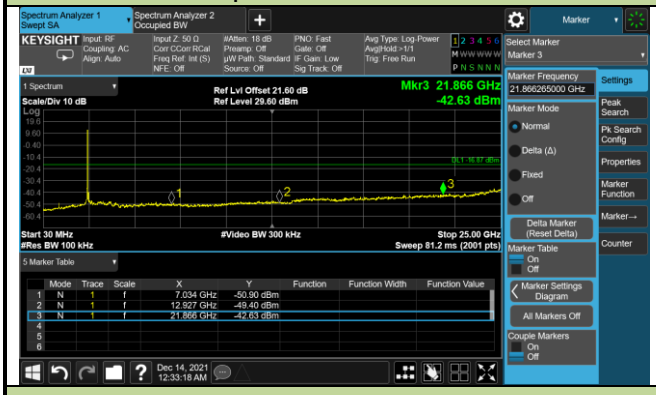
Low Band Edge

Spurious Emission



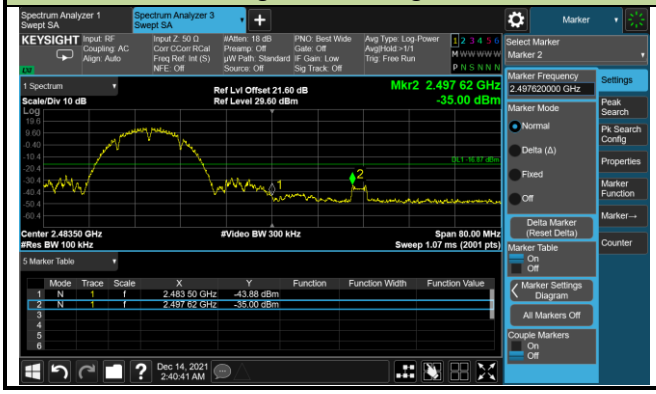
Channel 06 (2437MHz)

Spurious Emission

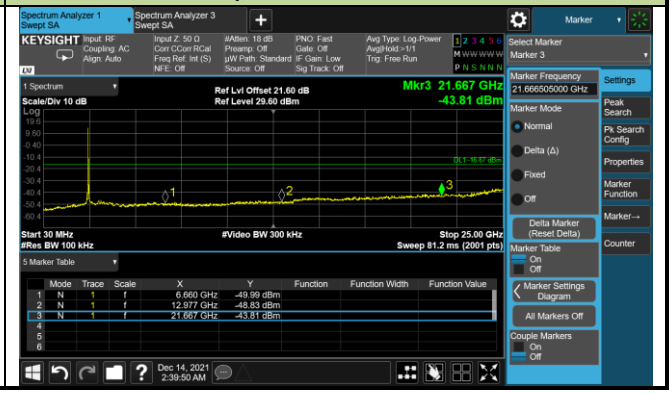


Channel 11 (2462MHz)

High Band Edge



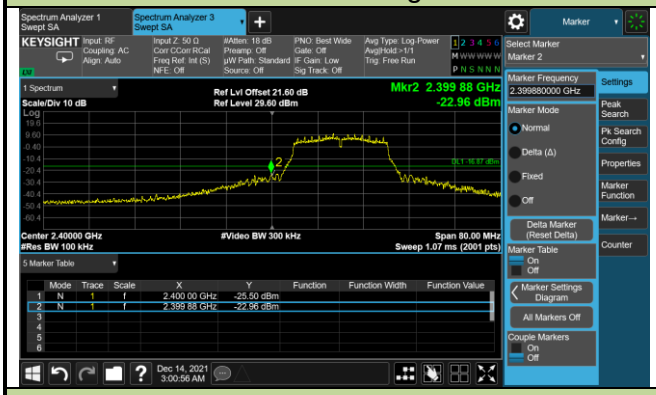
Spurious Emission



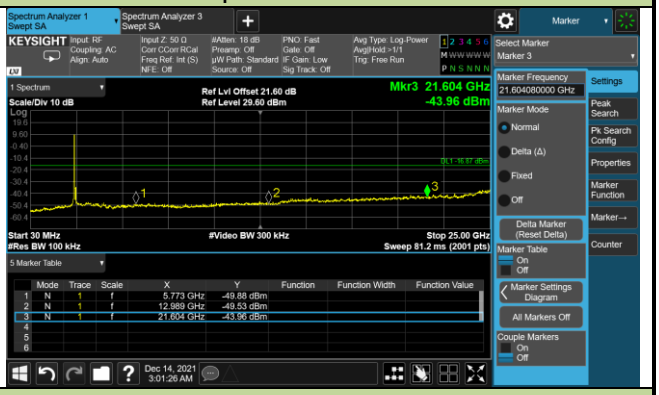
802.11g Out-of-Band Emissions - Ant 1

Channel 01 (2412MHz)

Low Band Edge

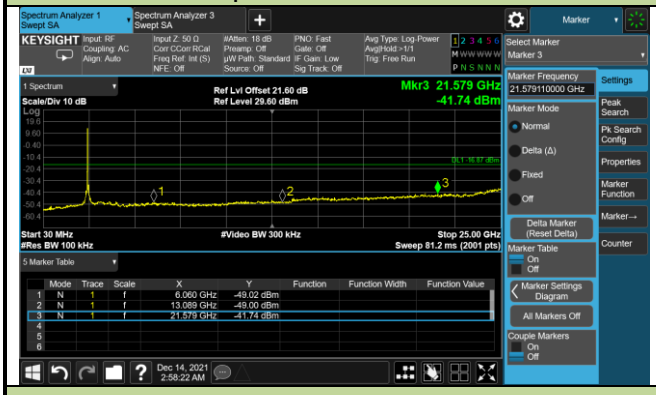


Spurious Emission



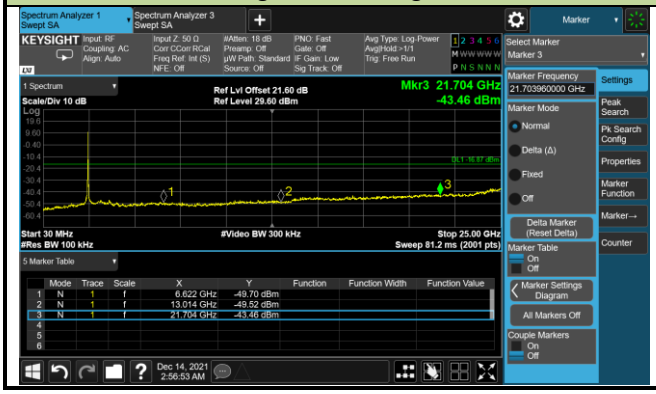
Channel 06 (2437MHz)

Spurious Emission

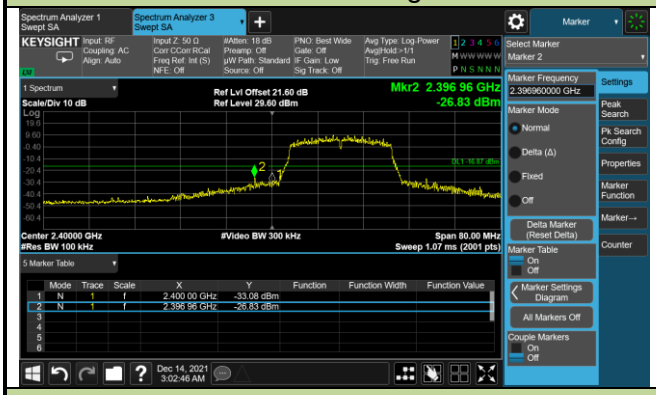
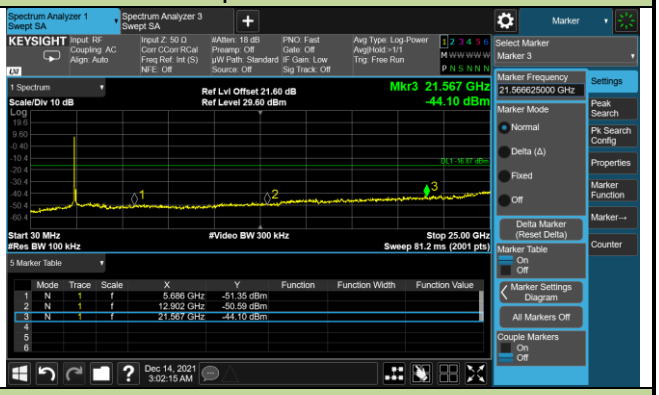
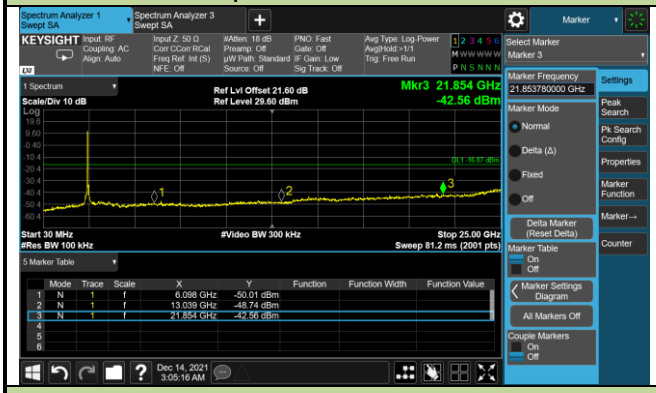
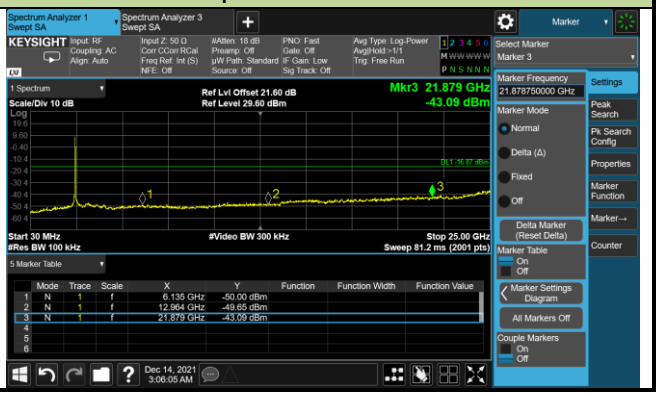


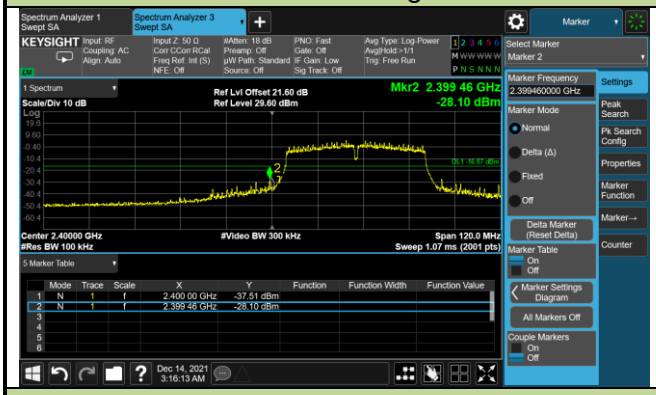
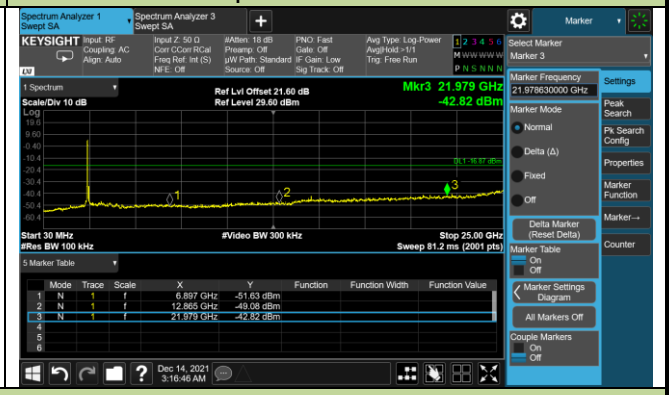
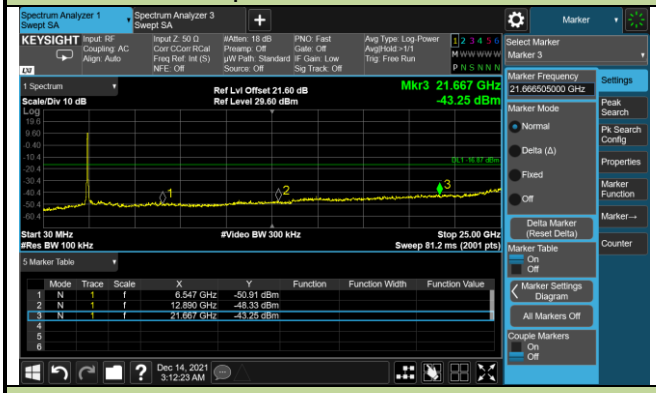
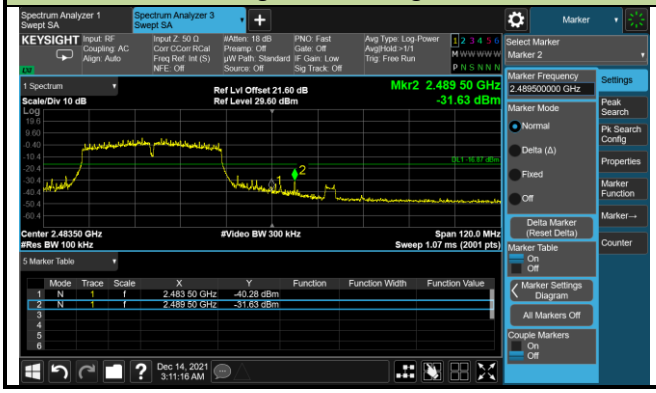
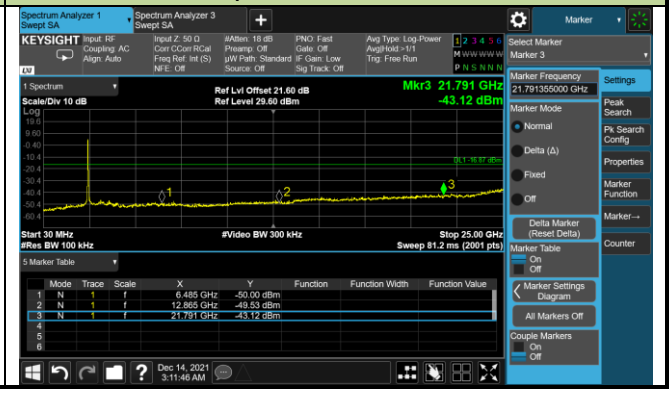
Channel 11 (2462MHz)

High Band Edge



Spurious Emission

802.11n-HT20 Out-of-Band Emissions - Ant 1	
Channel 01 (2412MHz)	
Low Band Edge	Spurious Emission
	
Channel 06 (2437MHz)	
Spurious Emission	
	
Channel 11 (2462MHz)	
High Band Edge	Spurious Emission
	

802.11n-HT40 Out-of-Band Emissions - Ant 1	
Channel 03 (2422MHz)	
Low Band Edge	Spurious Emission
	
Channel 06 (2437MHz)	
Spurious Emission	
	
Channel 09 (2452MHz)	
High Band Edge	Spurious Emission
	

7.6. Radiated Spurious Emission Measurement

7.6.1.Test Limit

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47CFR must not exceed the limits shown in Table per Section 15.209.

FCC Part 15 Subpart C Paragraph 15.209		
Frequency [MHz]	Field Strength [μV/m]	Measured Distance [Meters]
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

7.6.2.Test Procedure Used

ANSI C63.10 - 2013 - Section 11.11 & 11.12

ANSI C63.10 Section 6.3 (General Requirements)

ANSI C63.10 Section 6.4 (Standard test method below 30MHz)

ANSI C63.10 Section 6.5 (Standard test method above 30MHz to 1GHz)

ANSI C63.10 Section 6.6 (Standard test method above 1GHz)

7.6.3.Test Setting

Table 1 - RBW as a function of frequency

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

Quasi-Peak Measurements below 1GHz

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest

2. Span was set greater than 1MHz

3. RBW = as specified in Table 1

4. Detector = CISPR quasi-peak

5. Sweep time = auto couple

6. Trace was allowed to stabilize

Peak Measurements above 1GHz

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest

2. RBW = 1MHz

3. VBW = 3MHz

4. Detector = peak

5. Sweep time = auto couple

6. Trace mode = max hold

7. Trace was allowed to stabilize

Average Measurements above 1GHz (Method VB)

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest

2. RBW = 1MHz

3. VBW; If the EUT is configured to transmit with duty cycle ≥ 98%, set VBW = 10 Hz.

   If the EUT duty cycle is < 98%, set VBW ≥ 1/T. T is the minimum transmission duration.

4. Detector = Peak

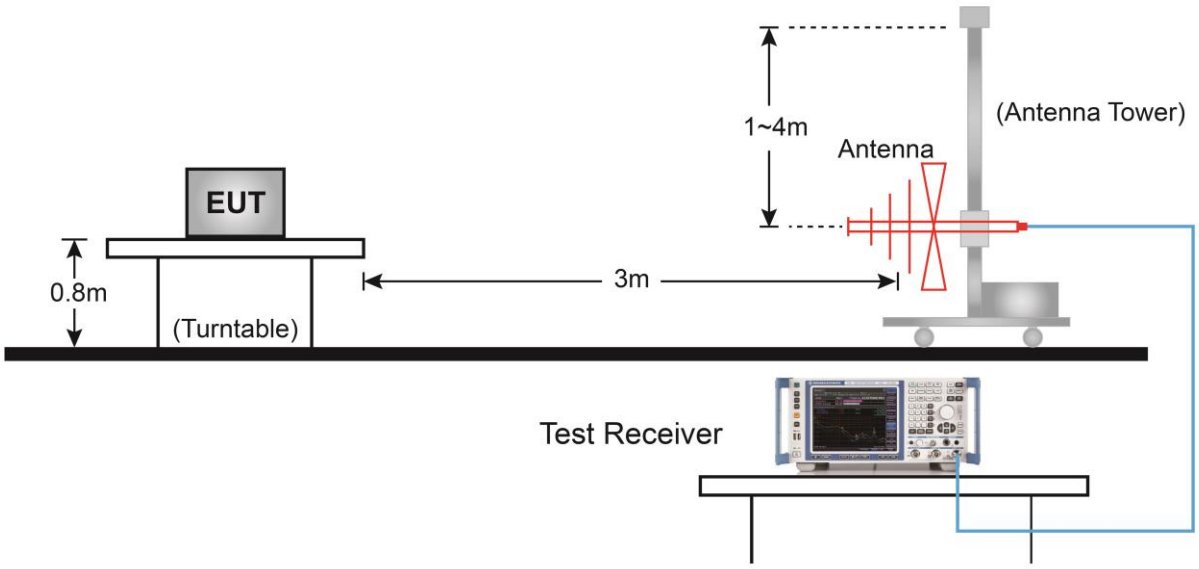
5. Sweep time = auto

6. Trace mode = max hold

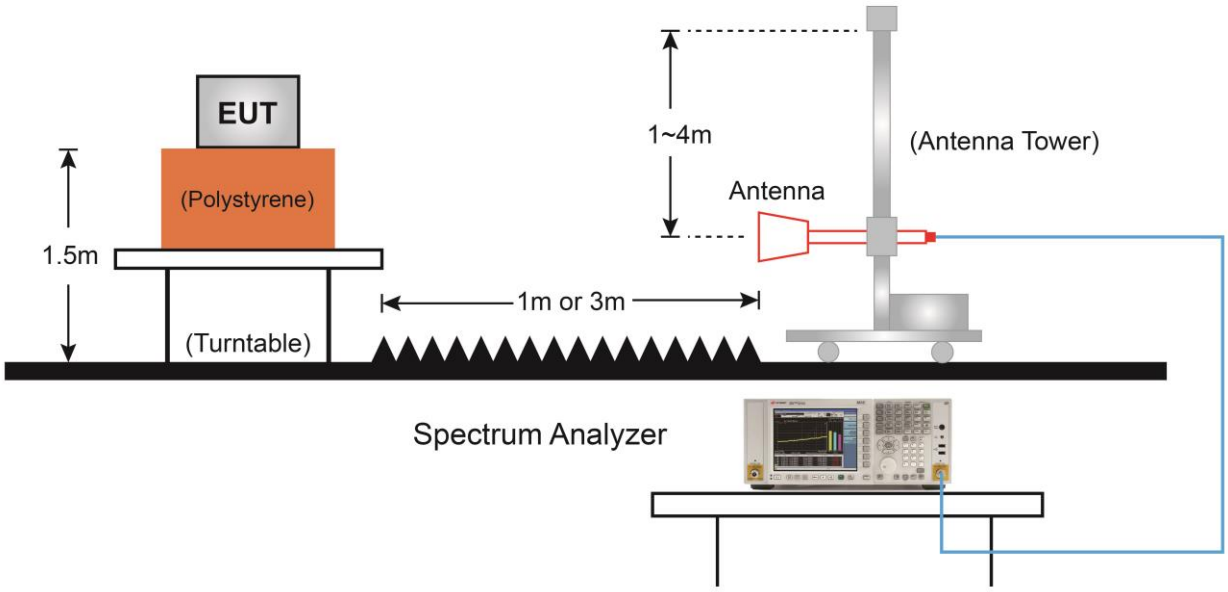
7. Trace was allowed to stabilize

7.6.4.Test Setup

Below 1GHz Test Setup:

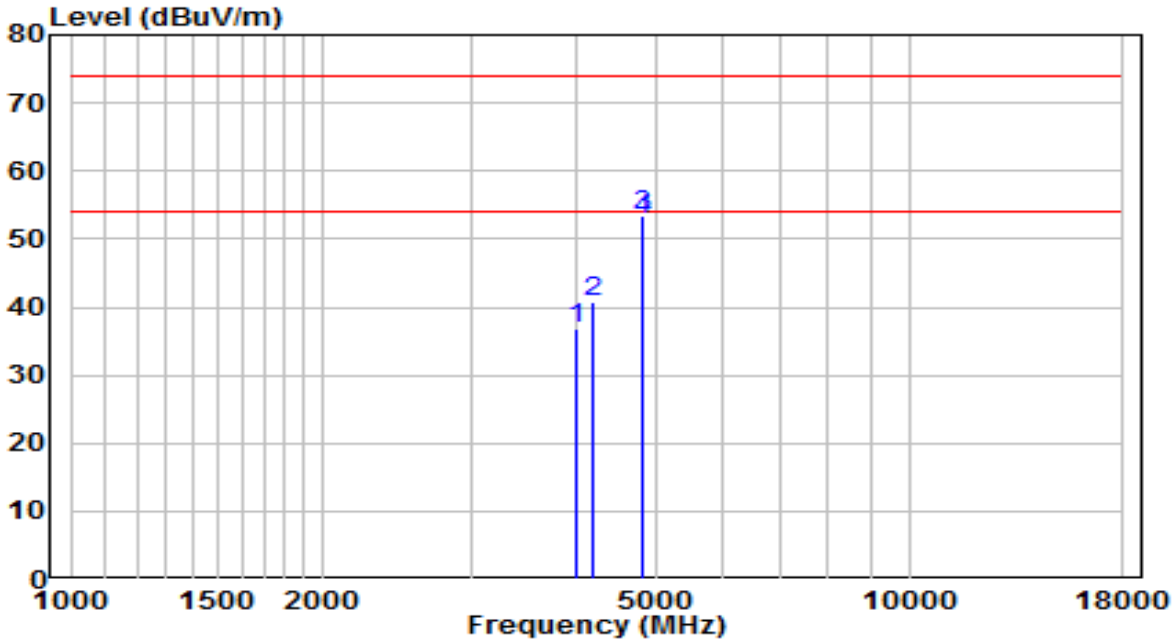


Above 1GHz Test Setup:



7.6.5.Test Result

EUT	AC1200 Whole Home Mesh Wi-Fi System	Date of Test	2021-12-28
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	19.5°C/17.1%
Polarity	Horizontal	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11b at Channel 2412MHz	Test Voltage	120V 60Hz

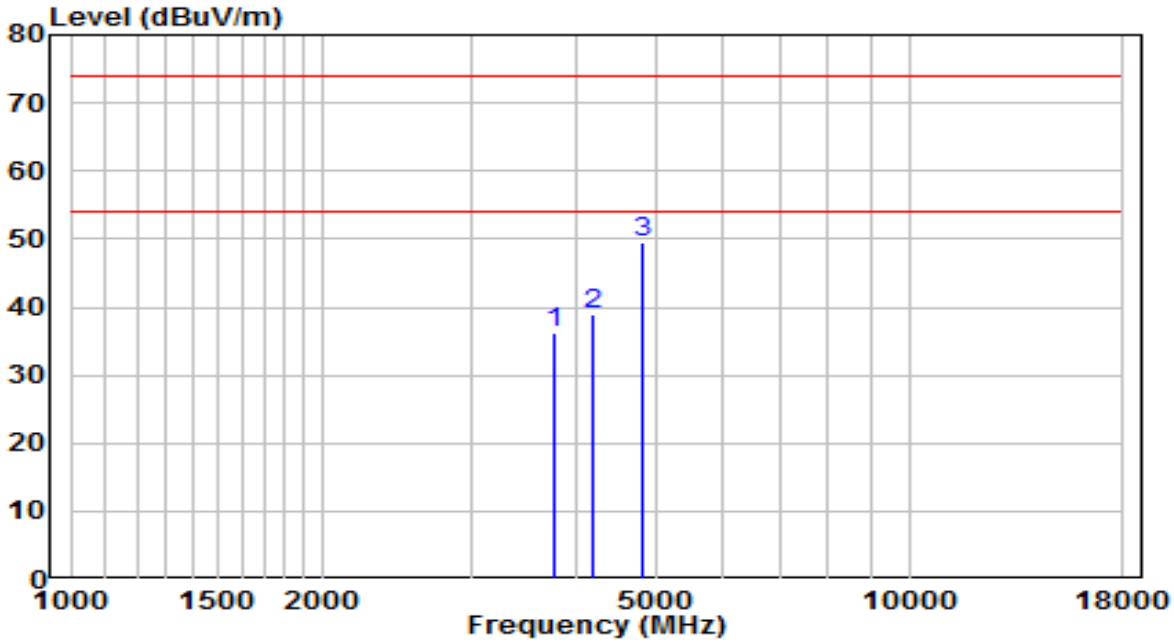


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1		4000.500	35.75	1.18	36.93	-37.07	74.00	Peak
2		4196.000	38.84	1.91	40.75	-33.25	74.00	Peak
3		4825.000	49.79	3.64	53.42	-20.58	74.00	Peak
4	*	4825.000	49.16	3.64	52.79	-1.21	54.00	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB)– Preamplifier(dB).
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

EUT	AC1200 Whole Home Mesh Wi-Fi System	Date of Test	2021-12-28
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	19.5°C/17.1%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11b at Channel 2412MHz	Test Voltage	120V 60Hz

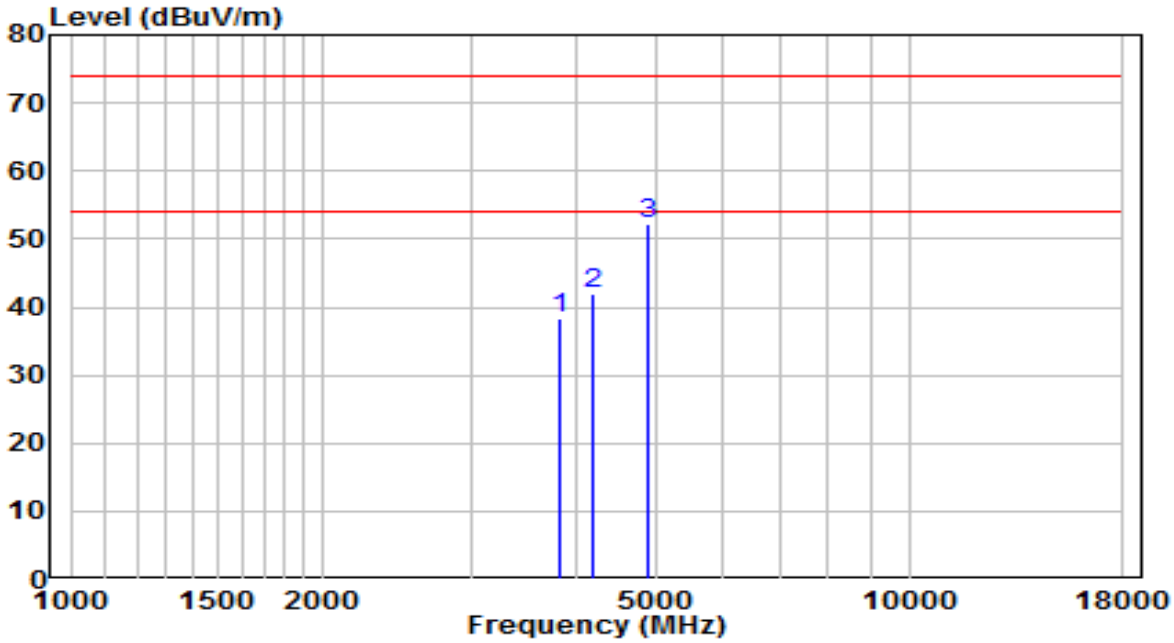


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1		3762.500	35.73	0.46	36.18	-37.82	74.00	Peak
2		4196.000	36.95	1.91	38.86	-35.14	74.00	Peak
3	*	4825.000	45.74	3.64	49.38	-24.62	74.00	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB)– Preamplifier(dB).
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

EUT	AC1200 Whole Home Mesh Wi-Fi System	Date of Test	2021-12-28
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	19.5°C/17.1%
Polarity	Horizontal	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11b at Channel 2437MHz	Test Voltage	120V 60Hz

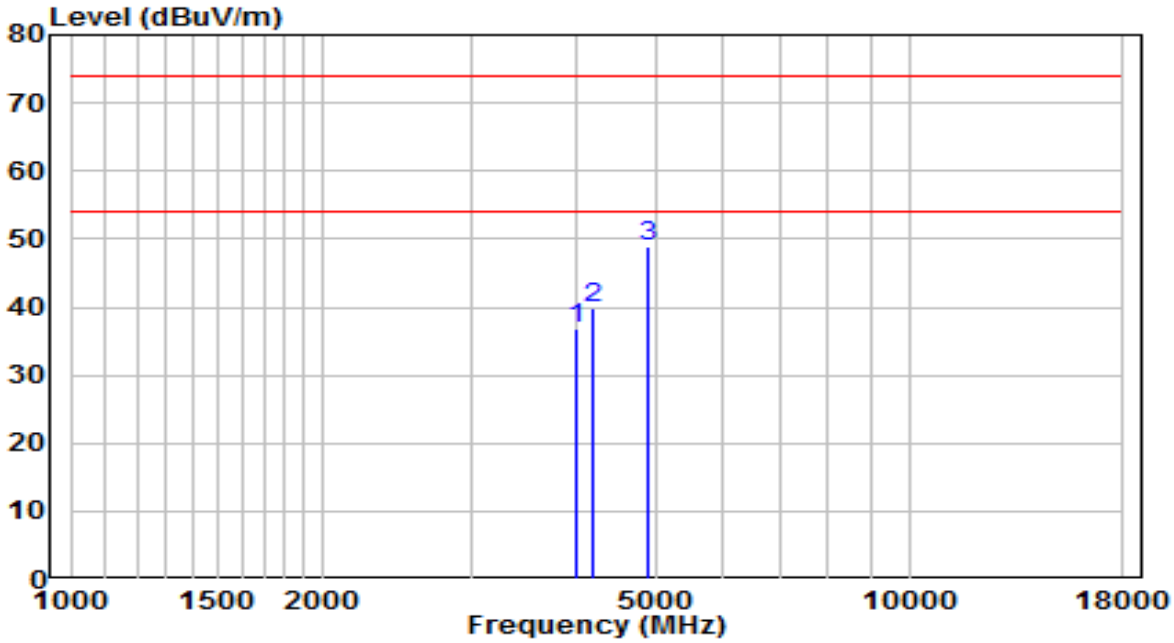


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1		3839.000	37.60	0.69	38.29	-35.71	74.00	Peak
2		4196.000	39.99	1.91	41.90	-32.10	74.00	Peak
3	*	4876.000	48.37	3.73	52.10	-21.90	74.00	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB)– Preamplifier(dB).
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

EUT	AC1200 Whole Home Mesh Wi-Fi System	Date of Test	2021-12-28
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	19.5°C/17.1%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11b at Channel 2437MHz	Test Voltage	120V 60Hz

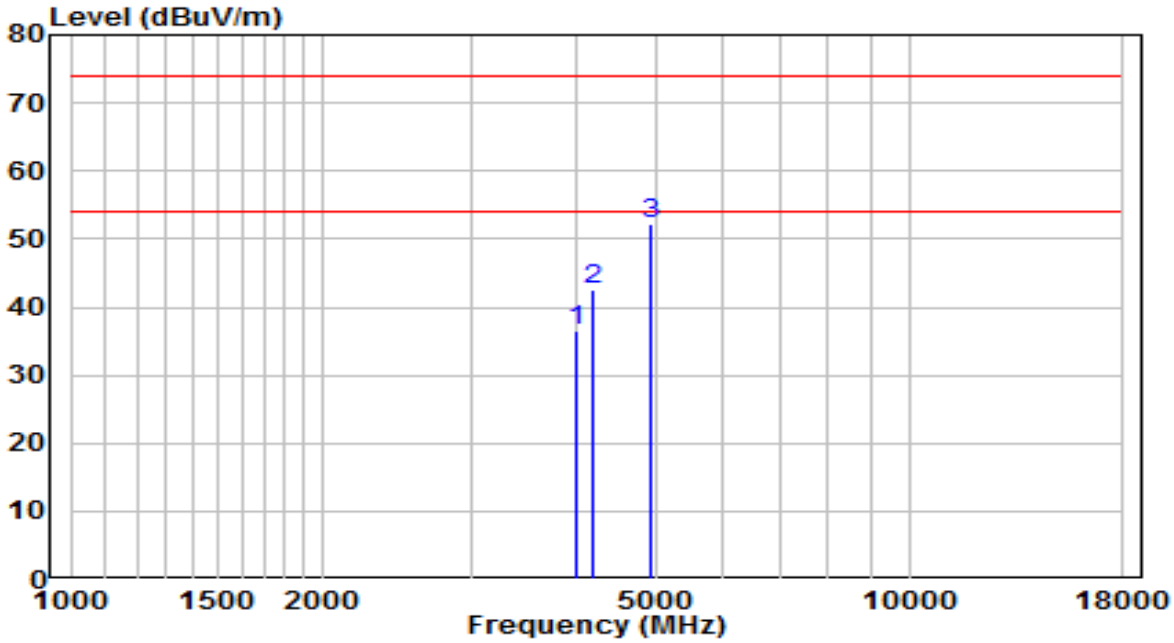


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1		4000.500	35.76	1.18	36.94	-37.06	74.00	Peak
2		4196.000	38.07	1.91	39.98	-34.02	74.00	Peak
3	*	4876.000	45.15	3.73	48.88	-25.12	74.00	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB)– Preamplifier(dB).
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

EUT	AC1200 Whole Home Mesh Wi-Fi System	Date of Test	2021-12-28
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	19.5°C/17.1%
Polarity	Horizontal	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11b at Channel 2462MHz	Test Voltage	120V 60Hz

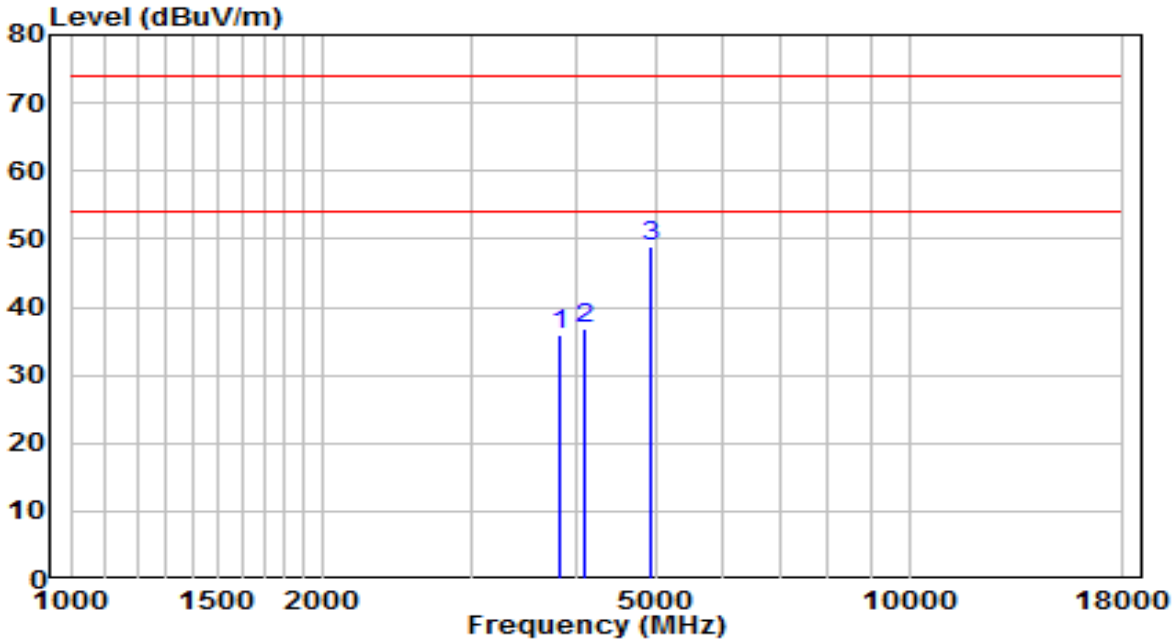


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1		4000.500	35.21	1.18	36.39	-37.61	74.00	Peak
2		4196.000	40.57	1.91	42.48	-31.52	74.00	Peak
3	*	4927.000	48.37	3.82	52.19	-21.81	74.00	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB)– Preamplifier(dB).
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

EUT	AC1200 Whole Home Mesh Wi-Fi System	Date of Test	2021-12-28
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	19.5°C/17.1%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11b at Channel 2462MHz	Test Voltage	120V 60Hz

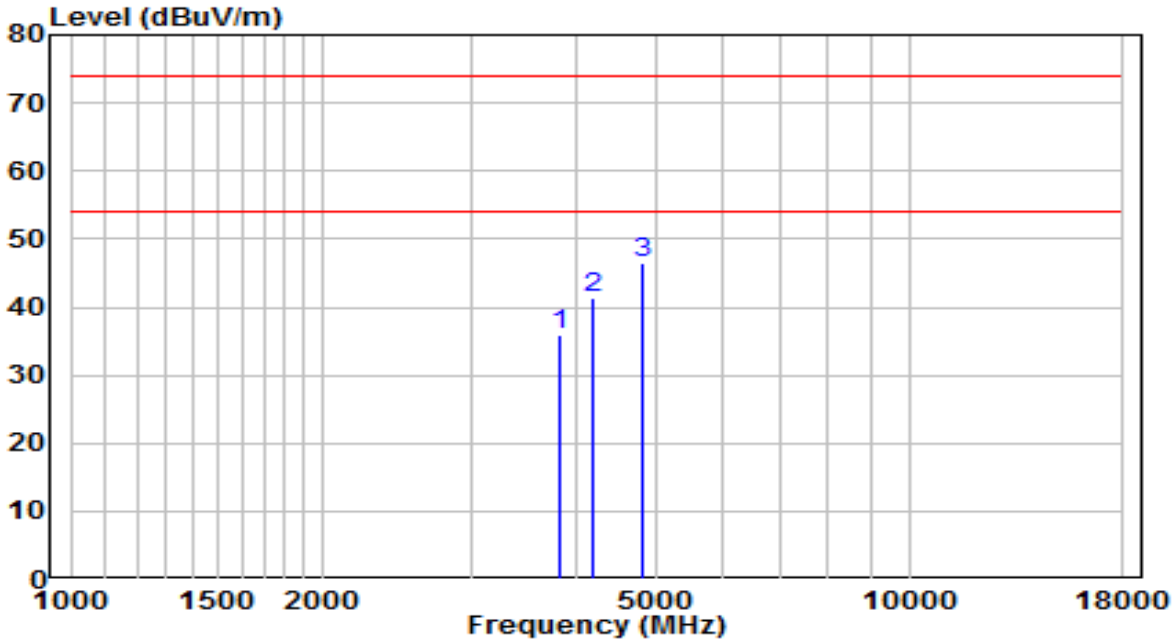


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1		3839.000	35.31	0.69	36.00	-38.00	74.00	Peak
2		4102.500	35.31	1.56	36.87	-37.13	74.00	Peak
3	*	4927.000	45.05	3.82	48.87	-25.13	74.00	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB)– Preamplifier(dB).
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

EUT	AC1200 Whole Home Mesh Wi-Fi System	Date of Test	2021-12-28
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	19.5°C/17.1%
Polarity	Horizontal	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11g at Channel 2412MHz	Test Voltage	120V 60Hz

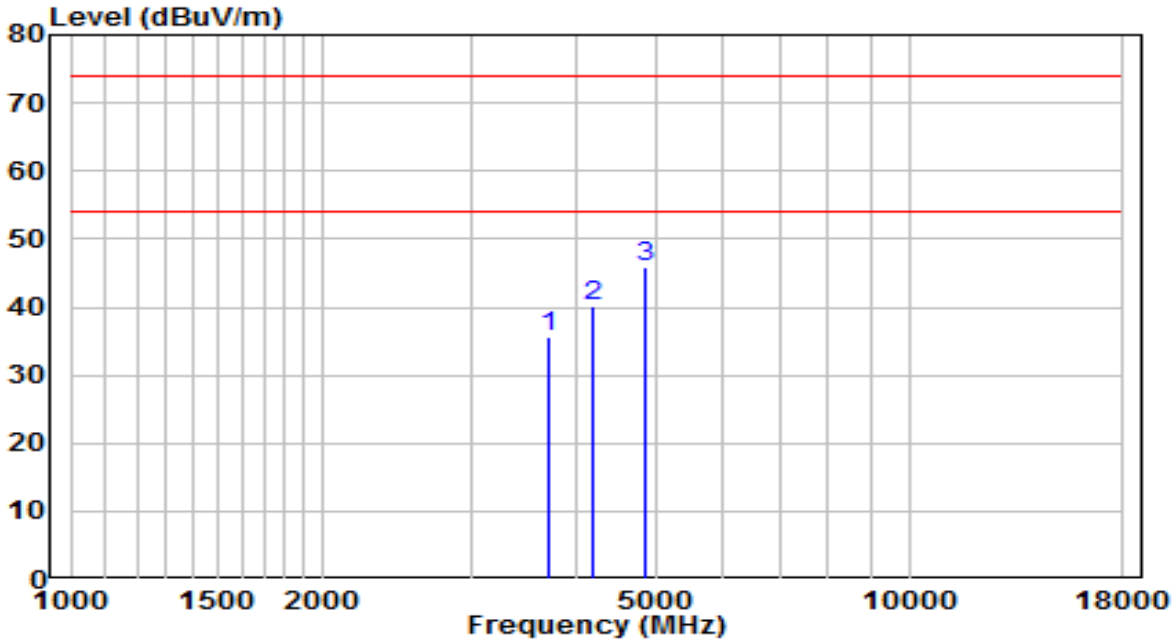


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1		3839.000	35.18	0.69	35.87	-38.13	74.00	Peak
2		4196.000	39.55	1.91	41.47	-32.53	74.00	Peak
3	*	4825.000	42.86	3.64	46.49	-27.51	74.00	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB)– Preamplifier(dB).
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

EUT	AC1200 Whole Home Mesh Wi-Fi System	Date of Test	2021-12-28
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	19.5°C/17.1%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11g at Channel 2412MHz	Test Voltage	120V 60Hz

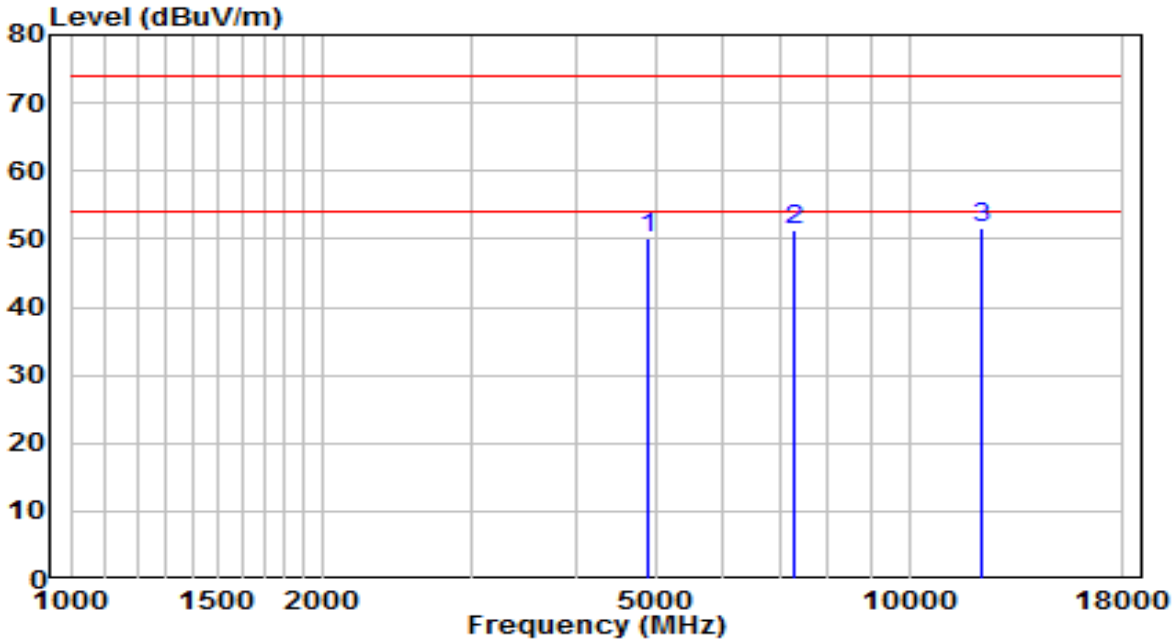


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1		3720.000	35.28	0.33	35.61	-38.39	74.00	Peak
2		4196.000	38.31	1.91	40.22	-33.78	74.00	Peak
3	*	4833.500	42.24	3.65	45.89	-28.11	74.00	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB)– Preamplifier(dB).
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

EUT	AC1200 Whole Home Mesh Wi-Fi System	Date of Test	2021-12-28
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	19.5°C/17.1%
Polarity	Horizontal	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11g at Channel 2437MHz	Test Voltage	120V 60Hz

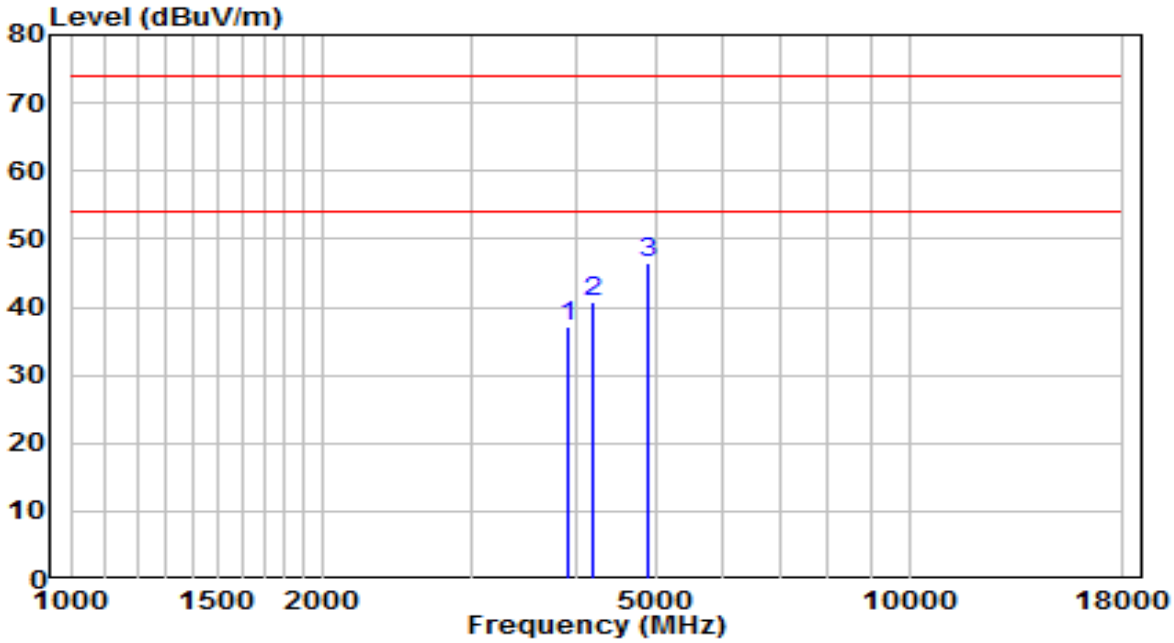


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1		4876.000	46.40	3.73	50.13	-23.87	74.00	Peak
2		7307.000	39.09	12.16	51.25	-22.75	74.00	Peak
3	*	12186.000	32.89	18.73	51.62	-22.38	74.00	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB)– Preamplifier(dB).
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

EUT	AC1200 Whole Home Mesh Wi-Fi System	Date of Test	2021-12-28
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	19.5°C/17.1%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11g at Channel 2437MHz	Test Voltage	120V 60Hz

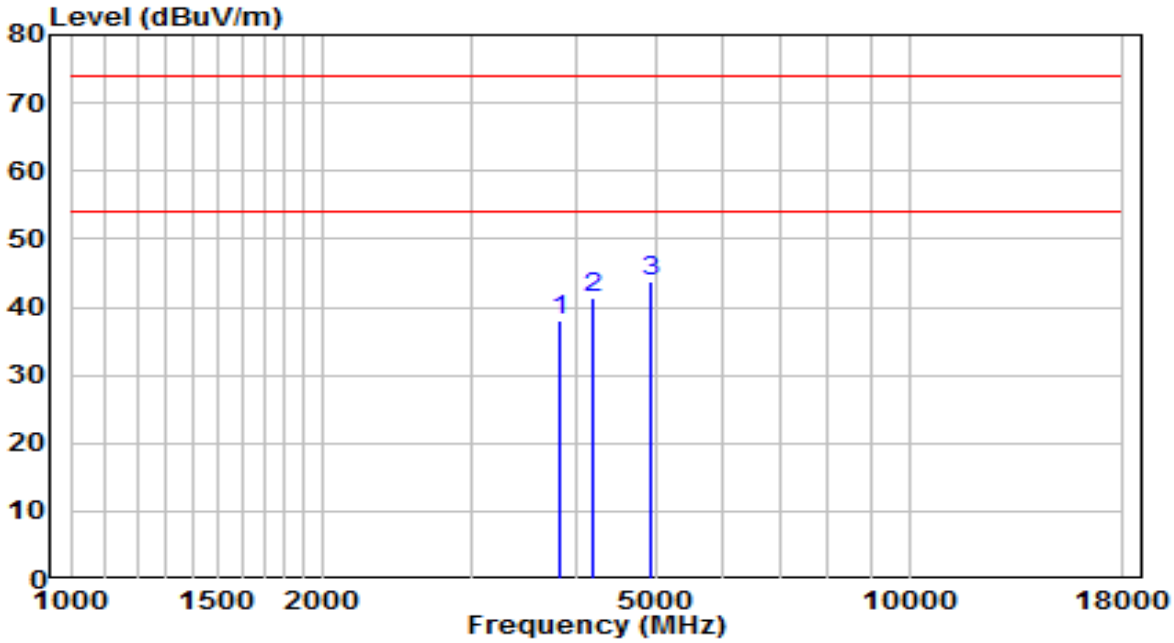


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1		3915.500	36.27	0.92	37.19	-36.81	74.00	Peak
2		4196.000	38.70	1.91	40.61	-33.39	74.00	Peak
3	*	4876.000	42.70	3.73	46.43	-27.57	74.00	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB)– Preamplifier(dB).
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

EUT	AC1200 Whole Home Mesh Wi-Fi System	Date of Test	2021-12-28
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	19.5°C/17.1%
Polarity	Horizontal	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11g at Channel 2462MHz	Test Voltage	120V 60Hz

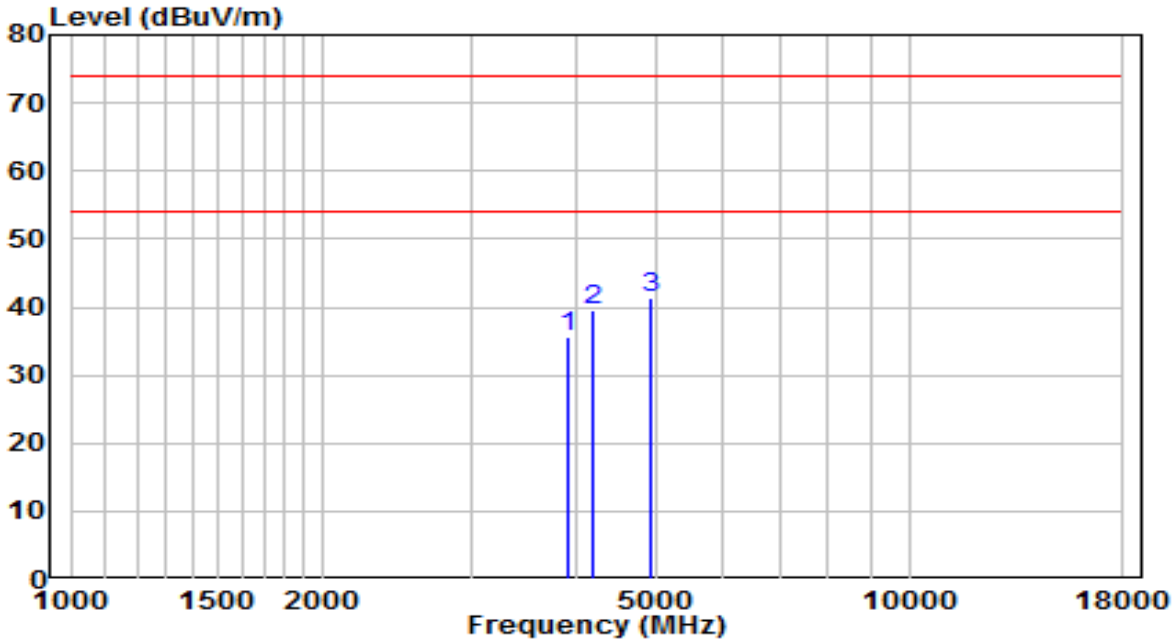


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1		3839.000	37.25	0.69	37.94	-36.06	74.00	Peak
2		4196.000	39.36	1.91	41.27	-32.73	74.00	Peak
3	*	4918.500	40.00	3.80	43.80	-30.20	74.00	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB)– Preamplifier(dB).
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

EUT	AC1200 Whole Home Mesh Wi-Fi System	Date of Test	2021-12-28
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	19.5°C/17.1%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11g at Channel 2462MHz	Test Voltage	120V 60Hz

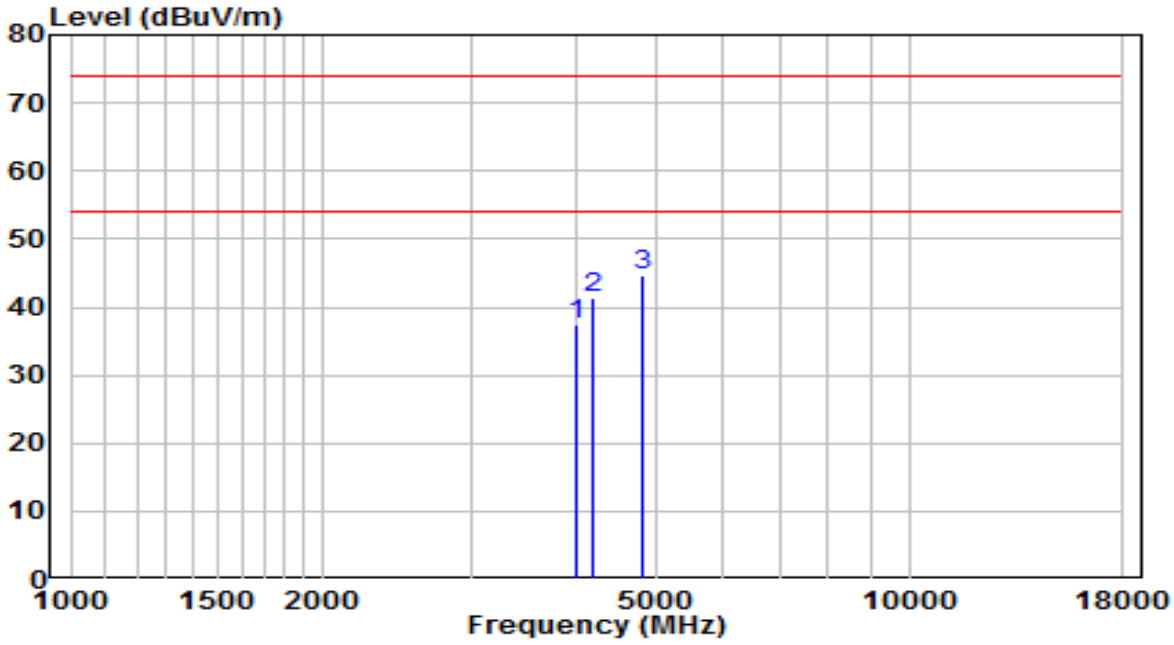


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1		3924.000	34.68	0.95	35.63	-38.37	74.00	Peak
2		4196.000	37.64	1.91	39.56	-34.44	74.00	Peak
3	*	4927.000	37.43	3.82	41.25	-32.75	74.00	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB)– Preamplifier(dB).
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

EUT	AC1200 Whole Home Mesh Wi-Fi System	Date of Test	2021-12-28
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	19.5°C/17.1%
Polarity	Horizontal	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11n-HT20 at Channel 2412MHz	Test Voltage	120V 60Hz

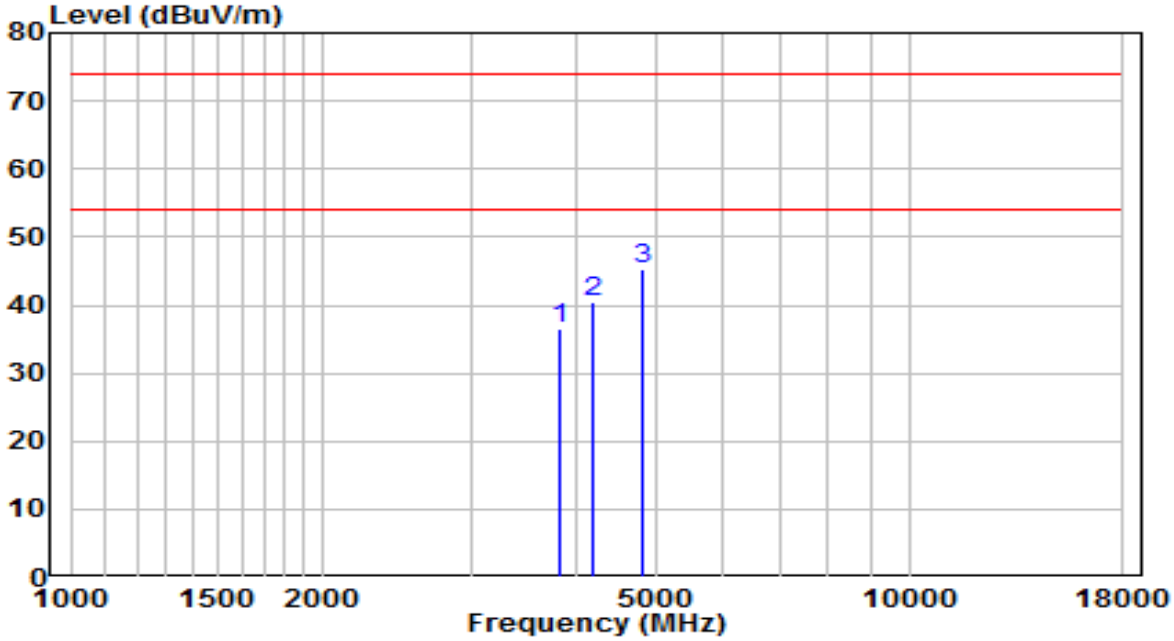


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1		4000.500	36.11	1.18	37.29	-36.71	74.00	Peak
2		4196.000	39.41	1.91	41.32	-32.68	74.00	Peak
3	*	4825.000	41.12	3.64	44.75	-29.25	74.00	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB)– Preamplifier(dB).
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

EUT	AC1200 Whole Home Mesh Wi-Fi System	Date of Test	2021-12-28
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	19.5°C/17.1%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11n-HT20 at Channel 2412MHz	Test Voltage	120V 60Hz

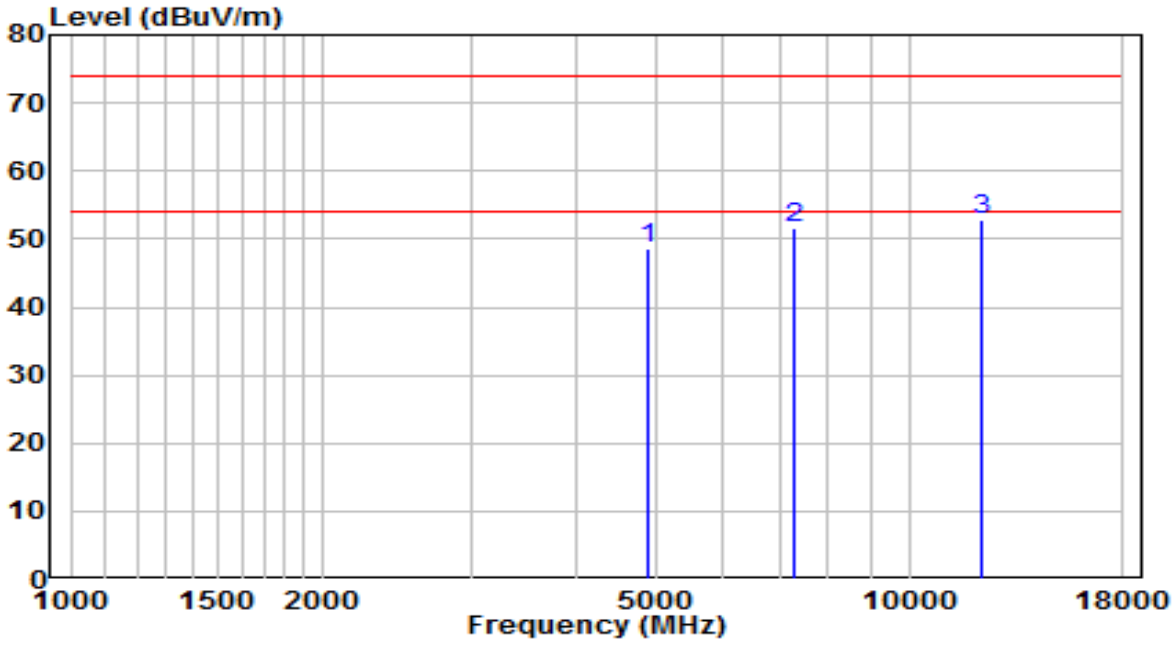


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1		3839.000	35.96	0.69	36.65	-37.35	74.00	Peak
2		4196.000	38.43	1.91	40.34	-33.66	74.00	Peak
3	*	4816.500	41.74	3.62	45.36	-28.64	74.00	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB)– Preamplifier(dB).
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

EUT	AC1200 Whole Home Mesh Wi-Fi System	Date of Test	2021-12-28
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	19.5°C/17.1%
Polarity	Horizontal	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11n-HT20 at Channel 2437MHz	Test Voltage	120V 60Hz

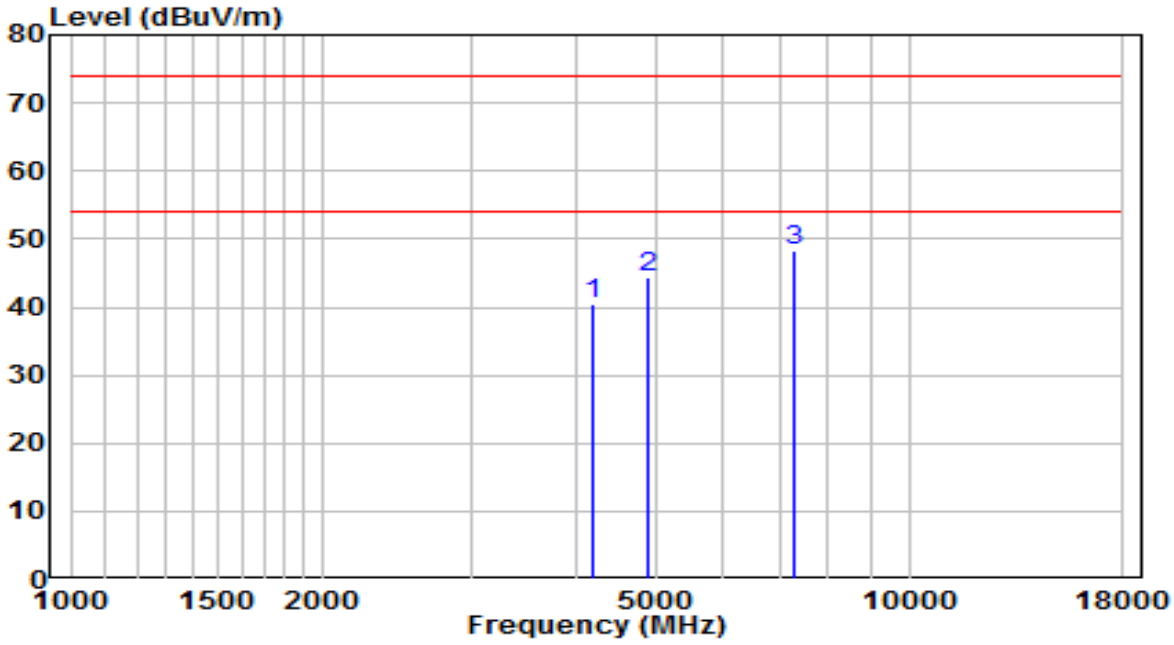


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1		4867.500	44.89	3.71	48.61	-25.39	74.00	Peak
2		7307.000	39.60	12.16	51.76	-22.24	74.00	Peak
3	*	12186.000	34.21	18.73	52.94	-21.06	74.00	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB)– Preamplifier(dB).
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

EUT	AC1200 Whole Home Mesh Wi-Fi System	Date of Test	2021-12-28
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	19.5°C/17.1%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11n-HT20 at Channel 2437MHz	Test Voltage	120V 60Hz

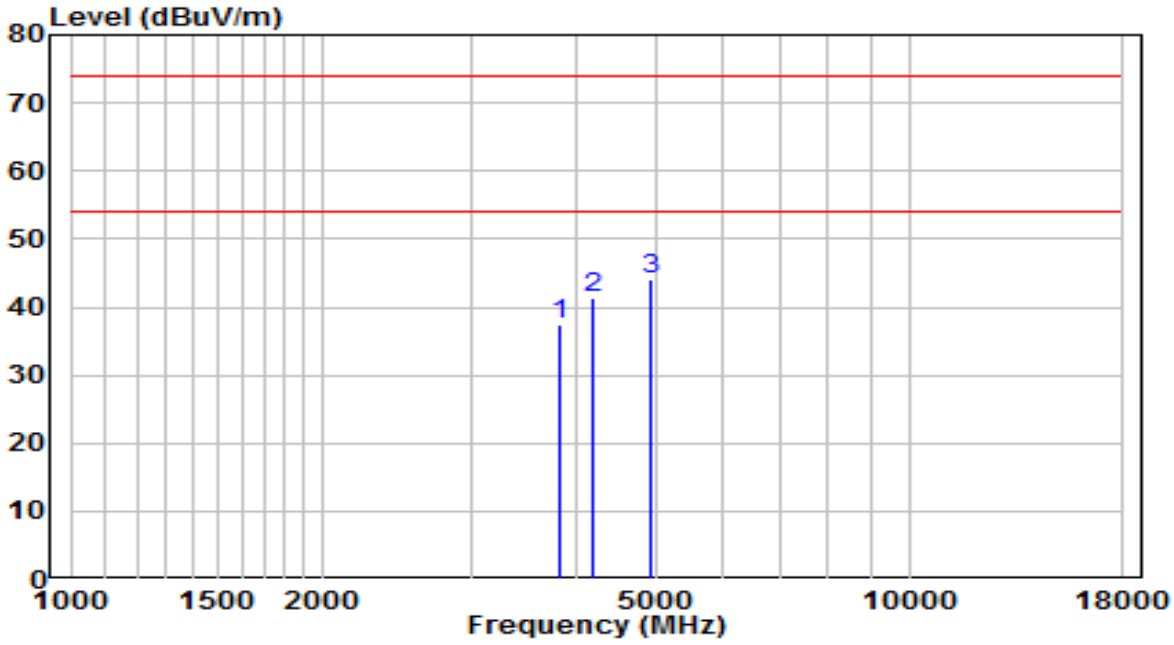


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1		4196.000	38.66	1.91	40.58	-33.42	74.00	Peak
2		4876.000	40.52	3.73	44.24	-29.76	74.00	Peak
3	*	7307.000	36.10	12.16	48.26	-25.74	74.00	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB)– Preamplifier(dB).
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

EUT	AC1200 Whole Home Mesh Wi-Fi System	Date of Test	2021-12-28
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	19.5°C/17.1%
Polarity	Horizontal	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11n-HT20 at Channel 2462MHz	Test Voltage	120V 60Hz

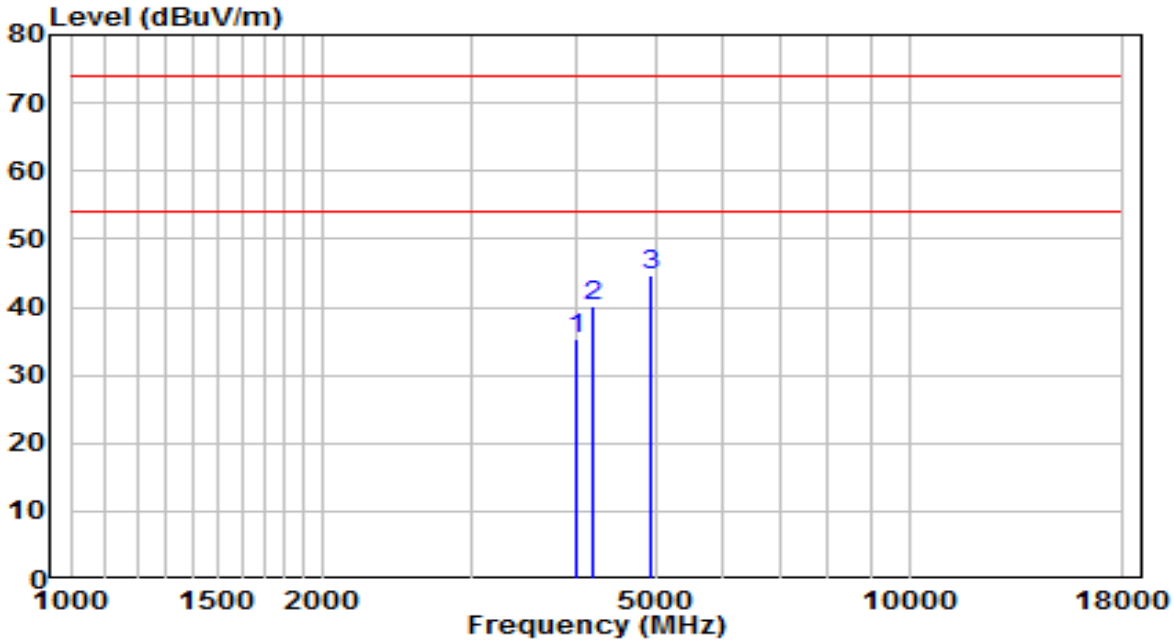


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1		3839.000	36.89	0.69	37.58	-36.42	74.00	Peak
2		4196.000	39.59	1.91	41.50	-32.50	74.00	Peak
3	*	4918.500	40.13	3.80	43.93	-30.07	74.00	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB)– Preamplifier(dB).
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

EUT	AC1200 Whole Home Mesh Wi-Fi System	Date of Test	2021-12-28
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	19.5°C/17.1%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11n-HT20 at Channel 2462MHz	Test Voltage	120V 60Hz

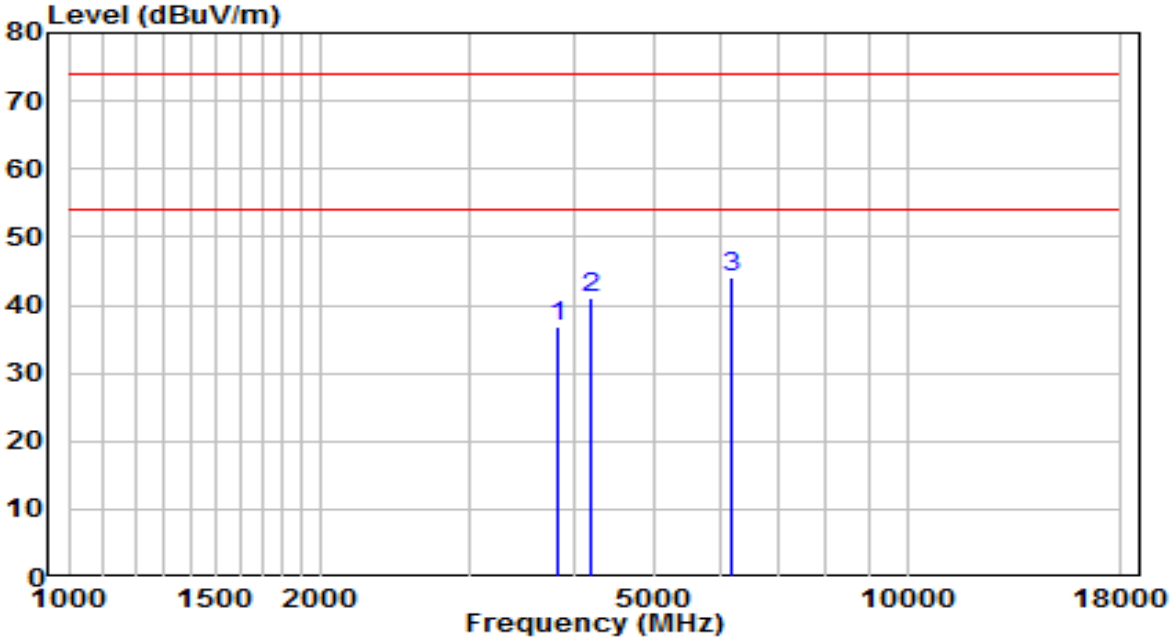


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1		4000.500	34.16	1.18	35.34	-38.66	74.00	Peak
2		4196.000	38.37	1.91	40.29	-33.71	74.00	Peak
3	*	4927.000	40.98	3.82	44.79	-29.21	74.00	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB)– Preamplifier(dB).
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

EUT	AC1200 Whole Home Mesh Wi-Fi System	Date of Test	2021-12-28
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	19.5°C/17.1%
Polarity	Horizontal	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11n-HT40 at Channel 2422MHz	Test Voltage	120V 60Hz

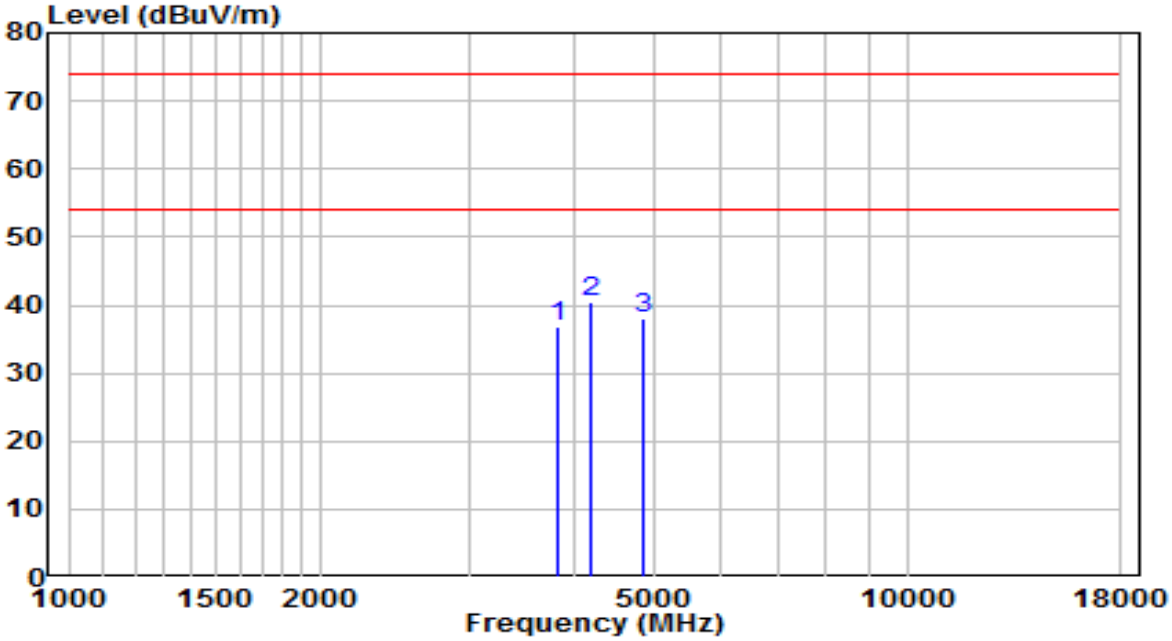


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1		3839.000	36.21	0.69	36.90	-37.10	74.00	Peak
2		4196.000	39.09	1.91	41.00	-33.00	74.00	Peak
3	*	6193.500	36.64	7.40	44.04	-29.96	74.00	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB)– Preamplifier(dB).
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

EUT	AC1200 Whole Home Mesh Wi-Fi System	Date of Test	2021-12-28
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	19.5°C/17.1%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11n-HT40 at Channel 2422MHz	Test Voltage	120V 60Hz

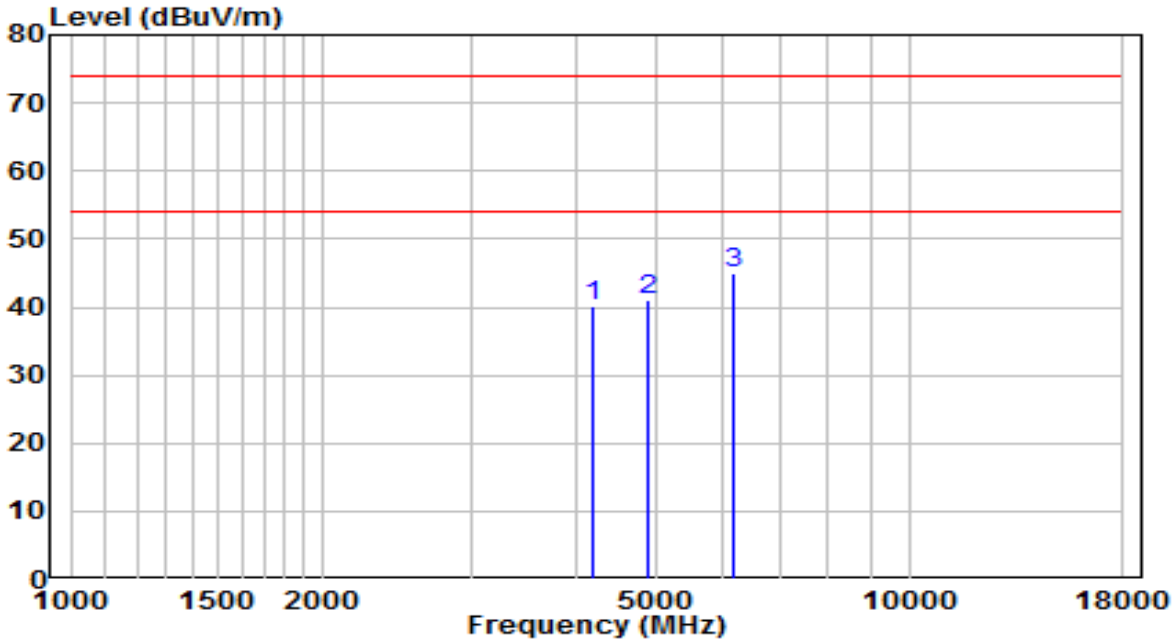


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1		3839.000	36.10	0.69	36.80	-37.20	74.00	Peak
2	*	4196.000	38.69	1.91	40.60	-33.40	74.00	Peak
3		4833.500	34.43	3.65	38.08	-35.92	74.00	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB)– Preamplifier(dB).
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

EUT	AC1200 Whole Home Mesh Wi-Fi System	Date of Test	2021-12-28
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	19.5°C/17.1%
Polarity	Horizontal	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11n-HT40 at Channel 2437MHz	Test Voltage	120V 60Hz

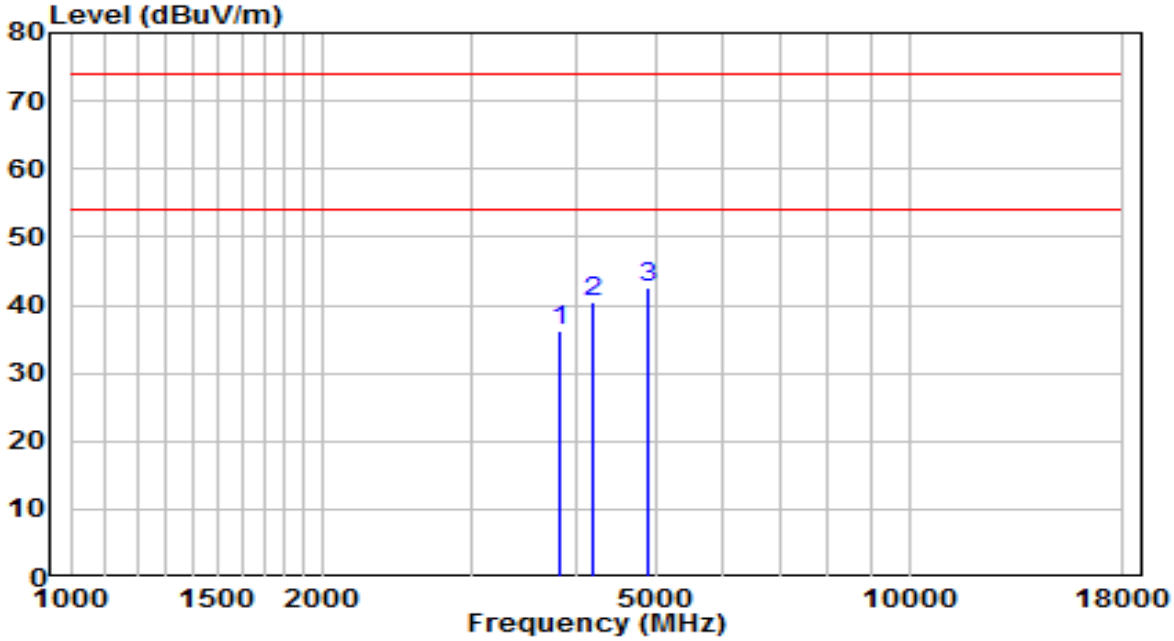


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1		4196.000	38.14	1.91	40.05	-33.95	74.00	Peak
2		4884.500	37.27	3.74	41.01	-32.99	74.00	Peak
3	*	6193.500	37.52	7.40	44.92	-29.08	74.00	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB)– Preamplifier(dB).
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

EUT	AC1200 Whole Home Mesh Wi-Fi System	Date of Test	2021-12-28
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	19.5°C/17.1%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11n-HT40 at Channel 2437MHz	Test Voltage	120V 60Hz

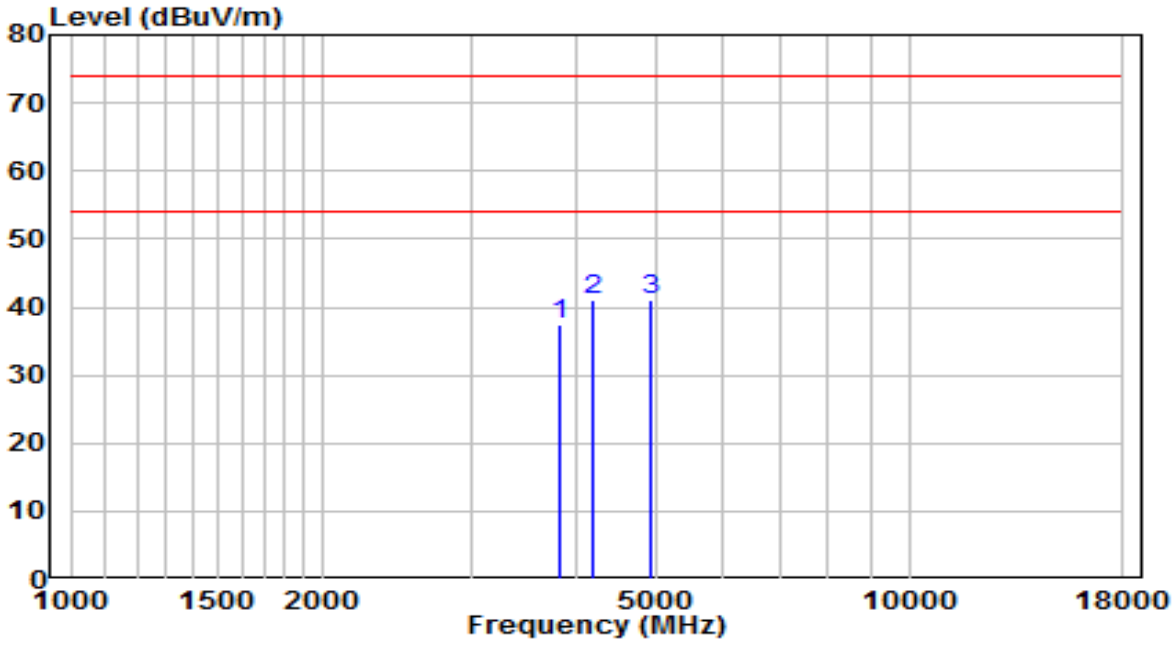


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1		3839.000	35.51	0.69	36.20	-37.80	74.00	Peak
2		4196.000	38.45	1.91	40.36	-33.64	74.00	Peak
3	*	4867.500	38.71	3.71	42.42	-31.58	74.00	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB)– Preamplifier(dB).
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

EUT	AC1200 Whole Home Mesh Wi-Fi System	Date of Test	2021-12-28
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	19.5°C/17.1%
Polarity	Horizontal	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11n-HT40 at Channel 2452MHz	Test Voltage	120V 60Hz

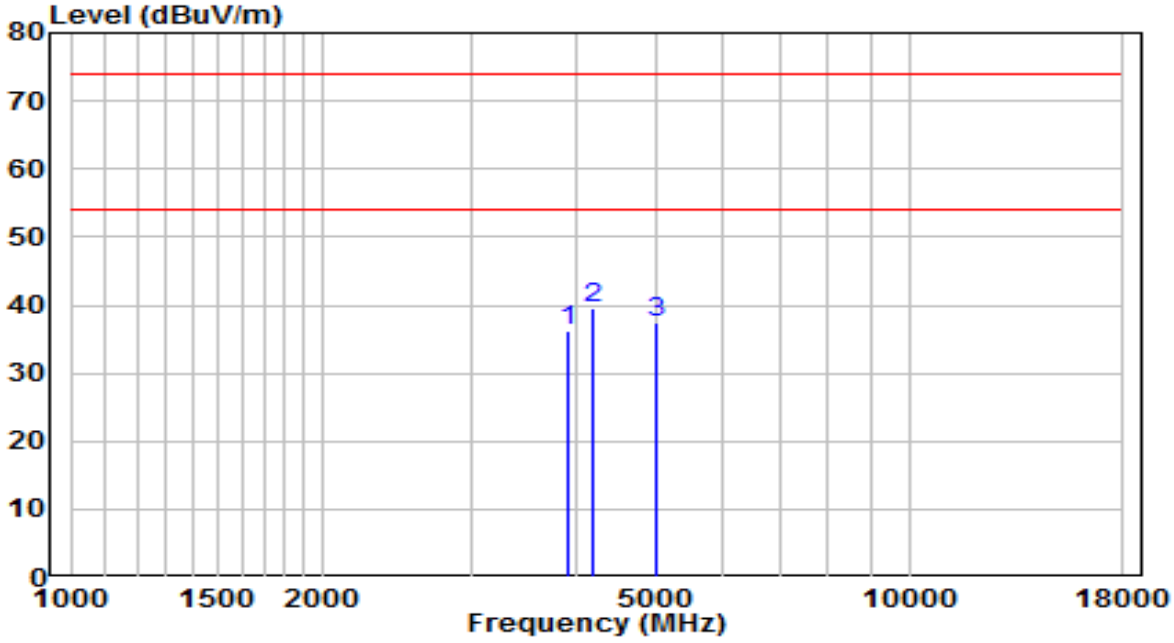


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1		3839.000	36.82	0.69	37.51	-36.49	74.00	Peak
2		4196.000	39.07	1.91	40.98	-33.02	74.00	Peak
3	*	4901.500	37.23	3.77	41.00	-33.00	74.00	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB)– Preamplifier(dB).
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

EUT	AC1200 Whole Home Mesh Wi-Fi System	Date of Test	2021-12-28
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	19.5°C/17.1%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11n-HT40 at Channel 2452MHz	Test Voltage	120V 60Hz



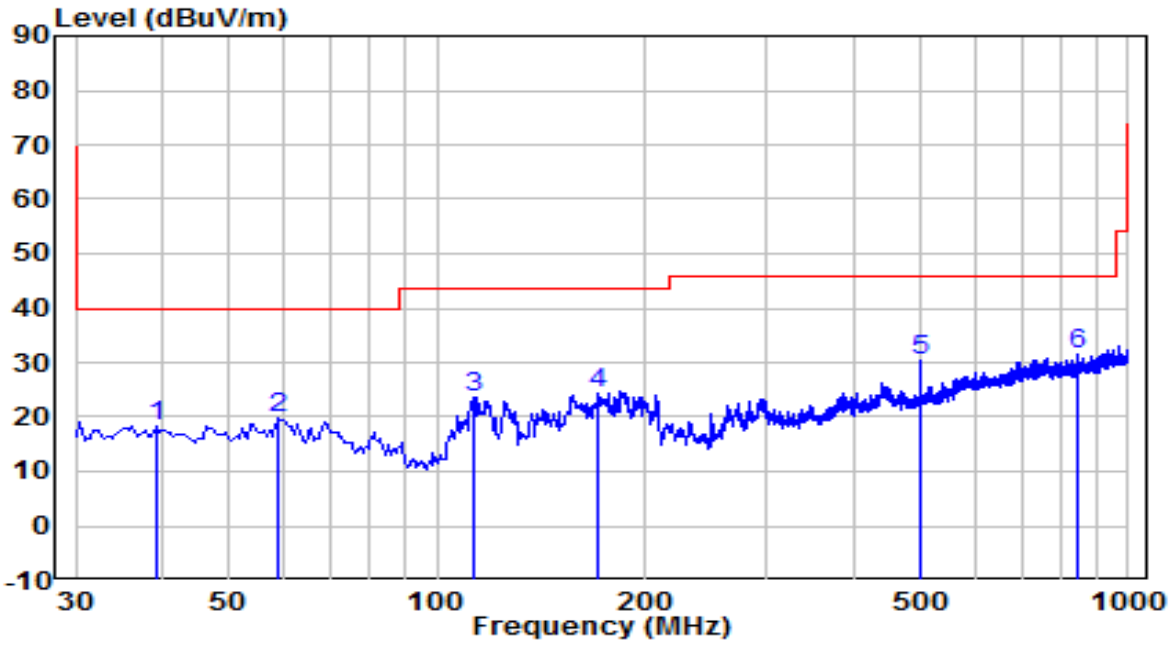
No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1		3915.500	35.44	0.92	36.36	-37.64	74.00	Peak
2	*	4196.000	37.60	1.91	39.51	-34.49	74.00	Peak
3		4995.000	33.39	3.94	37.34	-36.66	74.00	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB)– Preamplifier(dB).
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

The Result of Radiated Emission below 1GHz:

EUT	AC1200 Whole Home Mesh Wi-Fi System	Date of Test	2021-12-28
Factor	VULB 9162	Temp. / Humidity	23.7°C /23%
Polarity	Horizontal	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11b at channel 2437MHz	Test Voltage	120V/60Hz

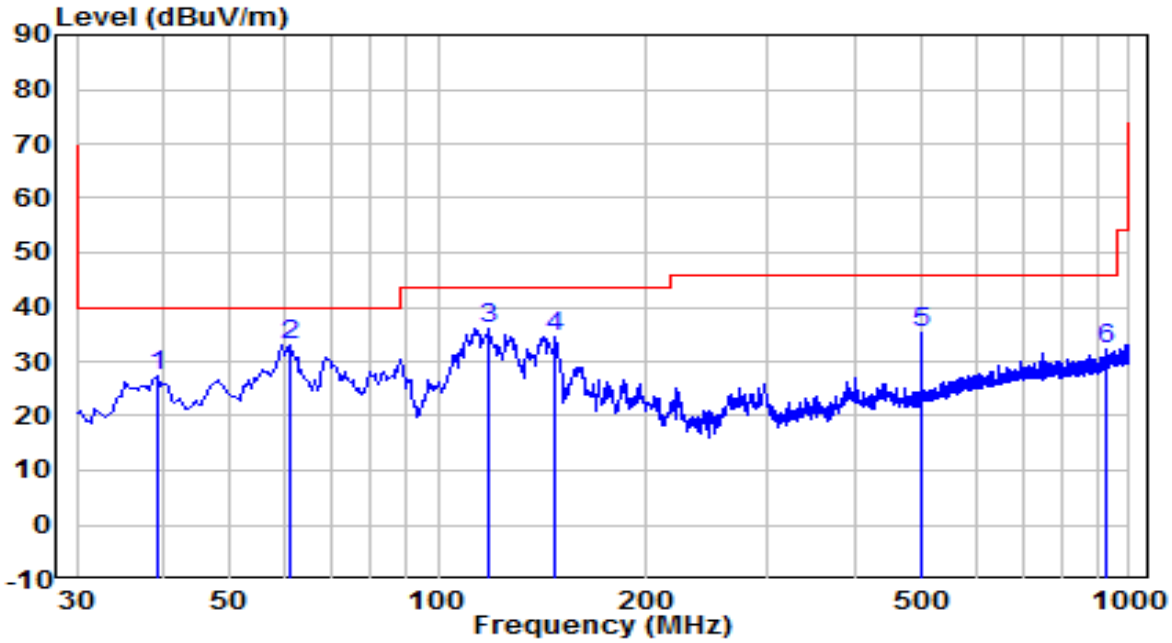


No		Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Remark (QP/PK/AV)
1		39.215	-2.40	20.79	18.39	-21.61	40.00	Peak
2		59.100	-0.66	20.38	19.72	-20.28	40.00	Peak
3		113.420	5.32	18.21	23.53	-19.97	43.50	Peak
4		170.650	7.67	16.70	24.36	-19.14	43.50	Peak
5		499.965	4.09	26.22	30.31	-15.69	46.00	Peak
6	*	848.195	0.04	31.45	31.49	-14.51	46.00	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB) + Cable Loss (dB).
3. Measurement(dBμV/m) = Reading(dBμV) + C.F (Correction Factor).
4. The amplitude of Radiated emissions (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 25GHz), is that proximity to ambient noise, which also are attenuated more than 20 dB below the permissible value. Therefore, the data is not presented in the report.

EUT	AC1200 Whole Home Mesh Wi-Fi System	Date of Test	2021-12-28
Factor	VULB 9162	Temp. / Humidity	23.7°C /23%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11b at channel 2437MHz	Test Voltage	120V/60Hz



No		Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Remark (QP/PK/AV)
1		39.215	6.46	20.79	27.25	-12.75	40.00	Peak
2	*	61.040	12.97	19.87	32.84	-7.16	40.00	Peak
3		118.270	18.48	17.49	35.98	-7.52	43.50	Peak
4		147.855	18.56	15.99	34.55	-8.95	43.50	Peak
5		499.965	9.02	26.22	35.24	-10.76	46.00	Peak
6		925.795	0.36	31.97	32.33	-13.67	46.00	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB) + Cable Loss (dB).
3. Measurement(dBμV/m) = Reading(dBμV) + C.F (Correction Factor).
4. The amplitude of Radiated emissions (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 25GHz), is that proximity to ambient noise, which also are attenuated more than 20 dB below the permissible value. Therefore, the data is not presented in the report.

7.7. Radiated Restricted Band Edge Measurement

7.7.1.Test Limit

For 15.205 requirement:

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a) of FCC part 15, must also comply with the radiated emission limits specified in Section 15.209(a).

Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (GHz)
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
[1] 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])
13.36 - 13.41	--	--	--

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47CFR must not exceed the limits shown in Table per Section 15.209.

FCC Part 15 Subpart C Paragraph 15.209 Limits		
Frequency [MHz]	Field Strength [μV/m]	Measured Distance [Meters]
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

7.7.2.Test Procedure Used

ANSI C63.10 Section 6.3 (General Requirements)

ANSI C63.10 Section 6.6 (Standard test method above 1GHz)

ANSI C63.10-2013 Section 11.13

7.7.3.Test Setting

Peak Field Strength Measurements

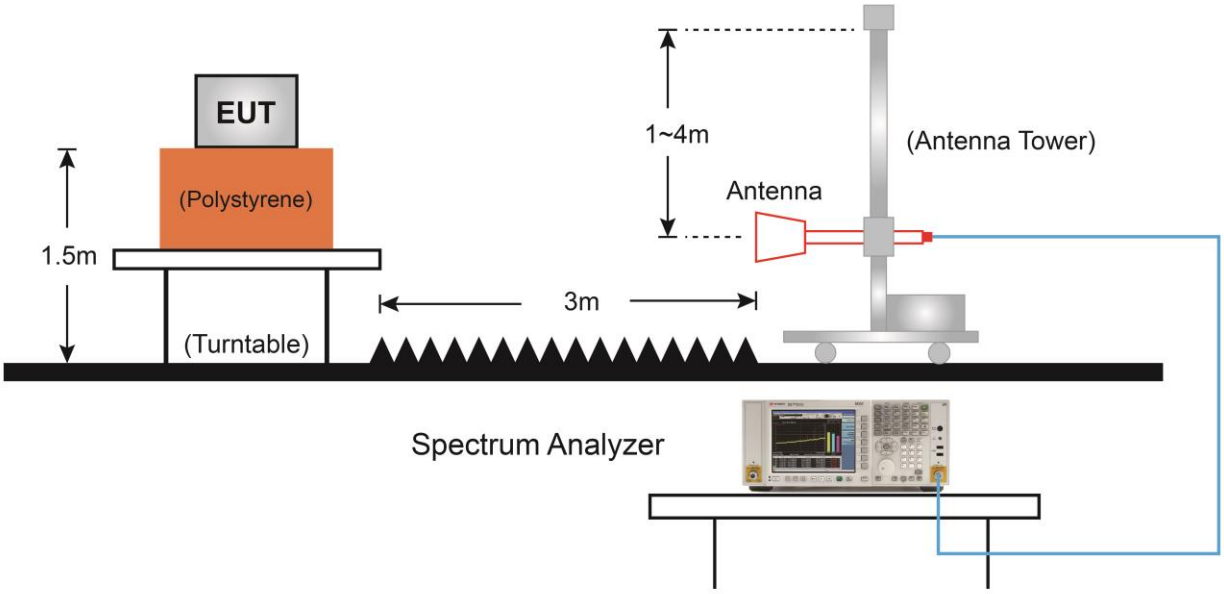
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

Average Measurements above 1GHz (Method VB)

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW; If the EUT is configured to transmit with duty cycle ≥ 98%, set VBW = 10 Hz.

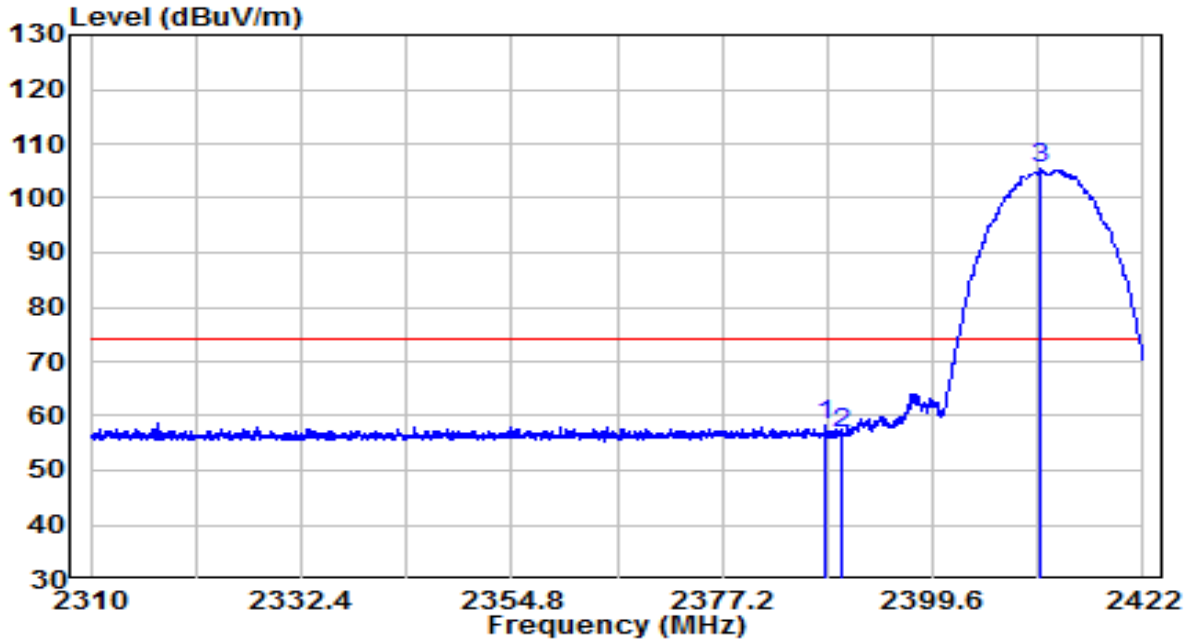
   If the EUT duty cycle is < 98%, set VBW ≥ 1/T. T is the minimum transmission duration.
4. Average Type = Voltage
5. Detector = Peak
6. Sweep time = auto
7. Trace mode = max hold
8. Trace was allowed to stabilize

7.7.4.Test Setup



7.7.5.Test Result

EUT	AC1200 Whole Home Mesh Wi-Fi System	Date of Test	2021-11-12
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	23.0°C/39.7%
Polarity	Horizontal	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11b at Channel 2412MHz	Test Voltage	120V/60Hz

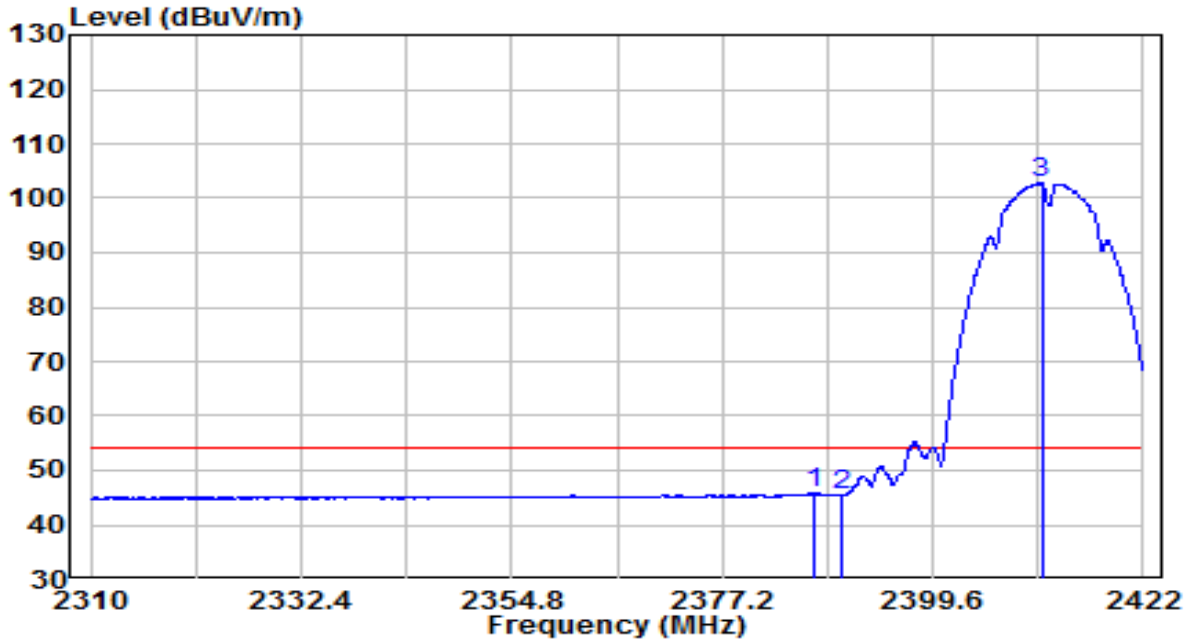


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1		2388.288	25.93	32.21	58.14	-15.86	74.00	Peak
2		2390.000	24.66	32.22	56.88	-17.12	74.00	Peak
3	*	2411.080	73.10	32.31	105.40	N/A	N/A	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

EUT	AC1200 Whole Home Mesh Wi-Fi System	Date of Test	2021-11-12
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	23.0°C/39.7%
Polarity	Horizontal	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11b at Channel 2412MHz	Test Voltage	120V/60Hz

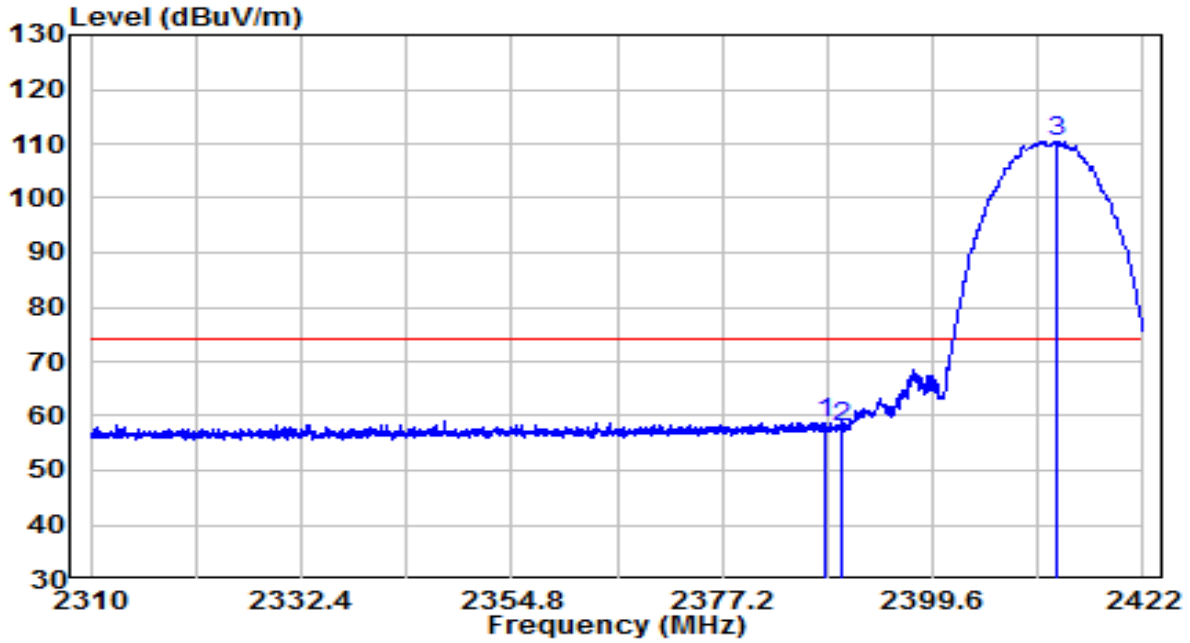


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1		2387.056	13.59	32.21	45.79	-8.21	54.00	Average
2		2390.000	13.34	32.22	45.55	-8.45	54.00	Average
3	*	2411.192	70.64	32.31	102.94	N/A	N/A	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

EUT	AC1200 Whole Home Mesh Wi-Fi System	Date of Test	2021-11-12
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	23.0°C/39.7%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11b at Channel 2412MHz	Test Voltage	120V/60Hz

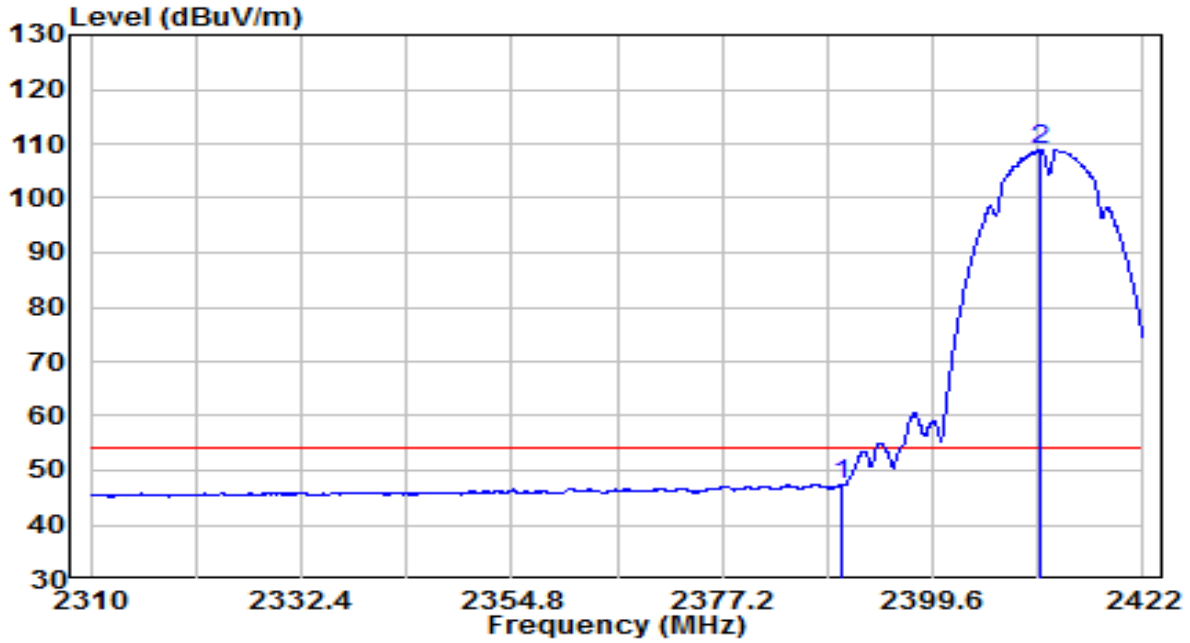


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1		2388.232	26.62	32.21	58.83	-15.17	74.00	Peak
2		2390.000	25.68	32.22	57.90	-16.10	74.00	Peak
3	*	2412.872	78.20	32.31	110.51	N/A	N/A	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

EUT	AC1200 Whole Home Mesh Wi-Fi System	Date of Test	2021-11-12
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	23.0°C/39.7%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11b at Channel 2412MHz	Test Voltage	120V/60Hz

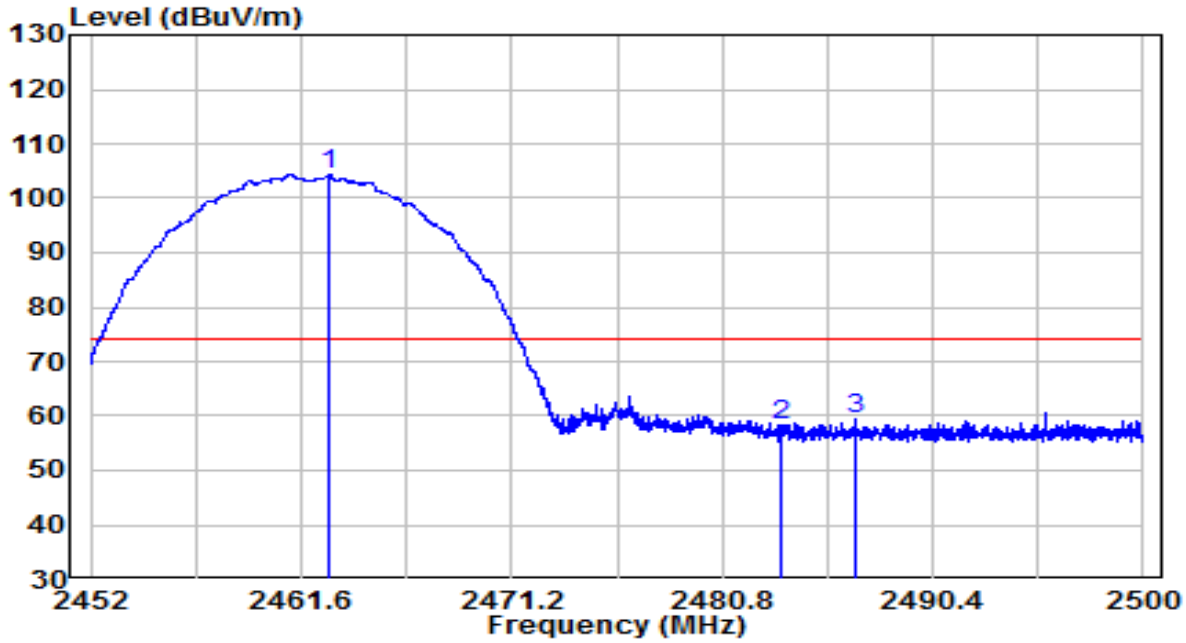


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1		2390.000	15.26	32.22	47.47	-6.53	54.00	Average
2	*	2411.136	76.64	32.31	108.95	N/A	N/A	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

EUT	AC1200 Whole Home Mesh Wi-Fi System	Date of Test	2021-12-10
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	23.0°C/39.7%
Polarity	Horizontal	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11b at Channel 2462MHz	Test Voltage	120V/60Hz

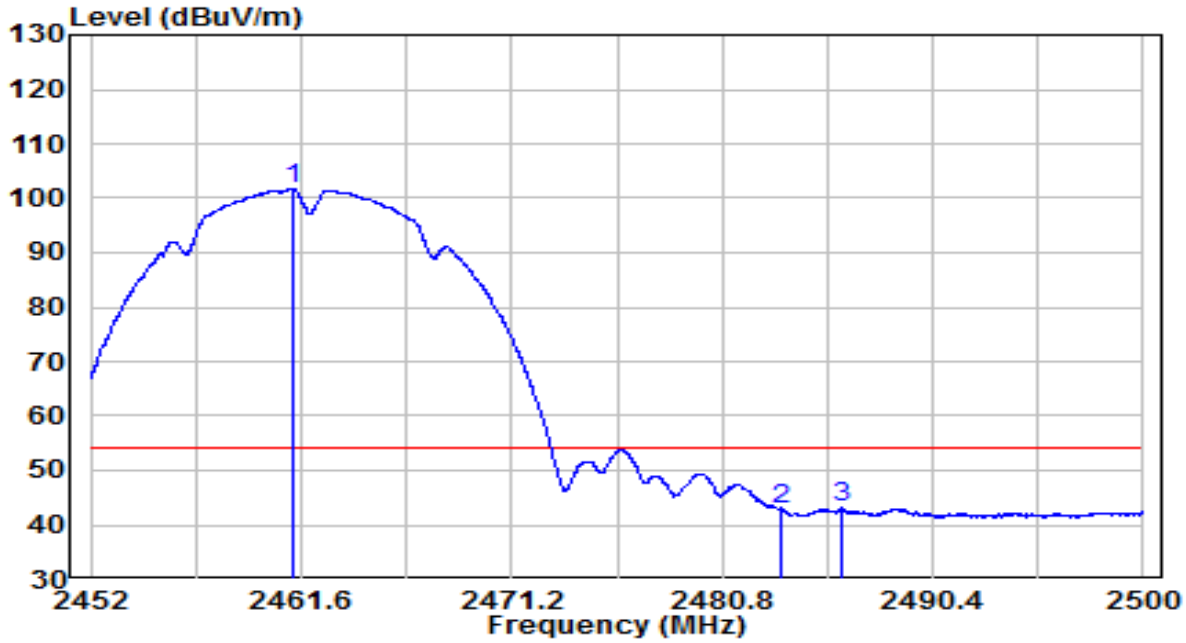


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	2462.920	71.75	32.52	104.28	N/A	N/A	Peak
2		2483.500	25.61	32.61	58.23	-15.77	74.00	Peak
3		2486.824	26.98	32.62	59.61	-14.39	74.00	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

EUT	AC1200 Whole Home Mesh Wi-Fi System	Date of Test	2021-12-10
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	23.0°C/39.7%
Polarity	Horizontal	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11b at Channel 2462MHz	Test Voltage	120V/60Hz

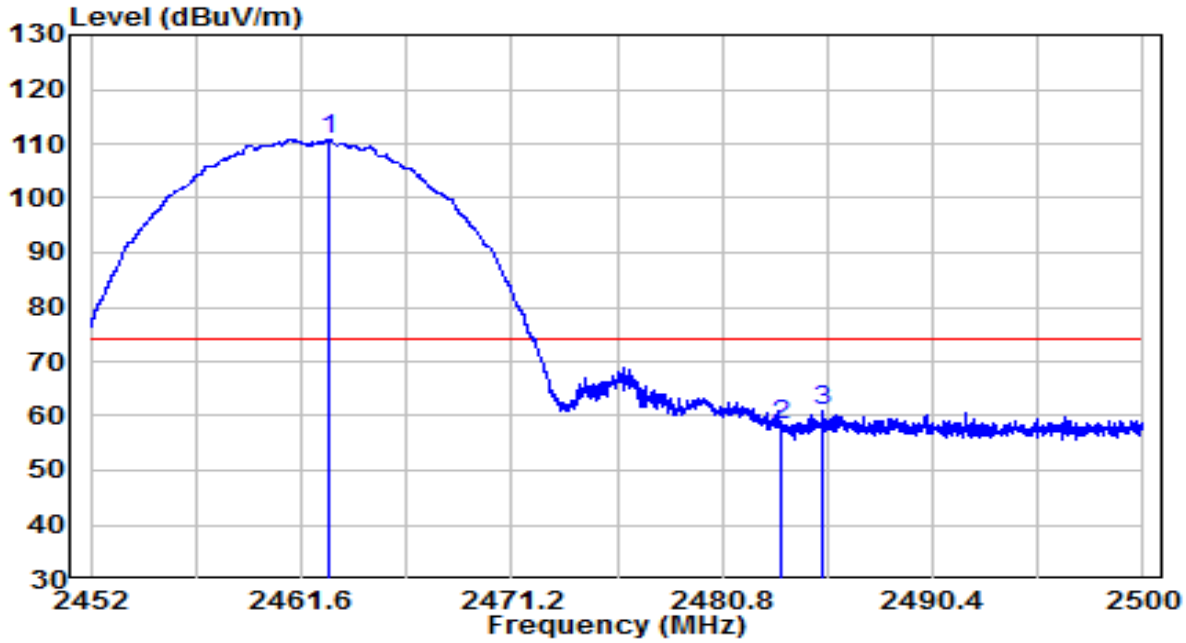


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	2461.192	69.26	32.52	101.78	N/A	N/A	Average
2		2483.488	10.39	32.61	43.00	-11.00	54.00	Average
3		2486.224	10.46	32.62	43.08	-10.92	54.00	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

EUT	AC1200 Whole Home Mesh Wi-Fi System	Date of Test	2021-12-10
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	23.0°C/39.7%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11b at Channel 2462MHz	Test Voltage	120V/60Hz

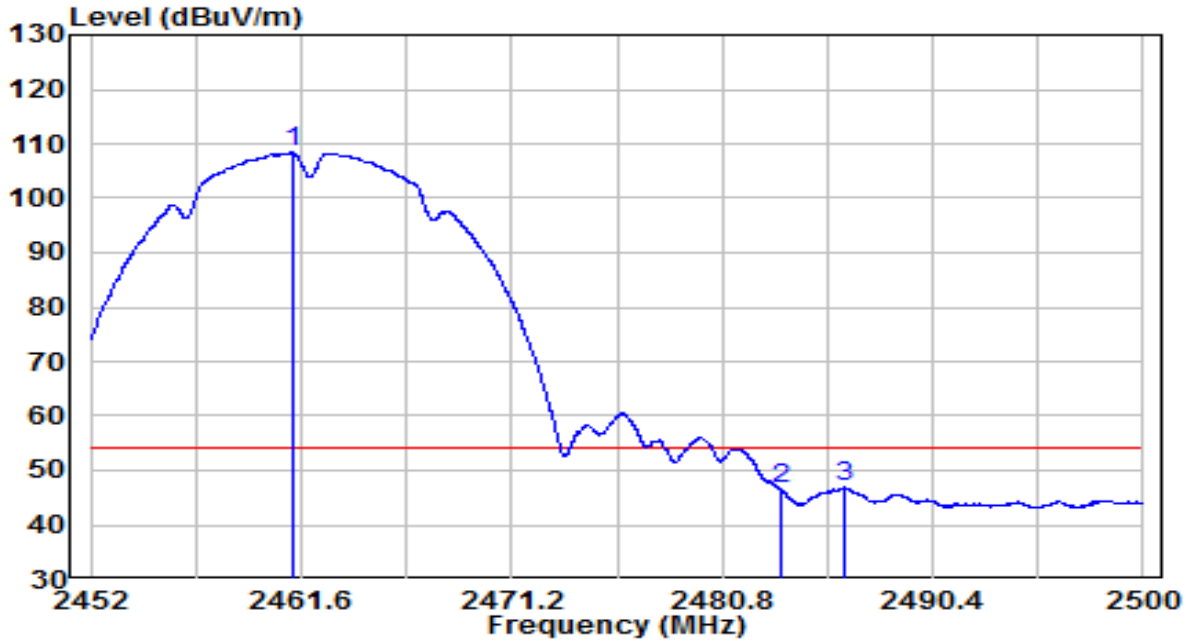


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	2462.824	78.39	32.52	110.92	N/A	N/A	Peak
2		2483.500	25.68	32.61	58.29	-15.71	74.00	Peak
3		2485.408	28.33	32.62	60.95	-13.05	74.00	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

EUT	AC1200 Whole Home Mesh Wi-Fi System	Date of Test	2021-12-10
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	23.0°C/39.7%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11b at Channel 2462MHz	Test Voltage	120V/60Hz

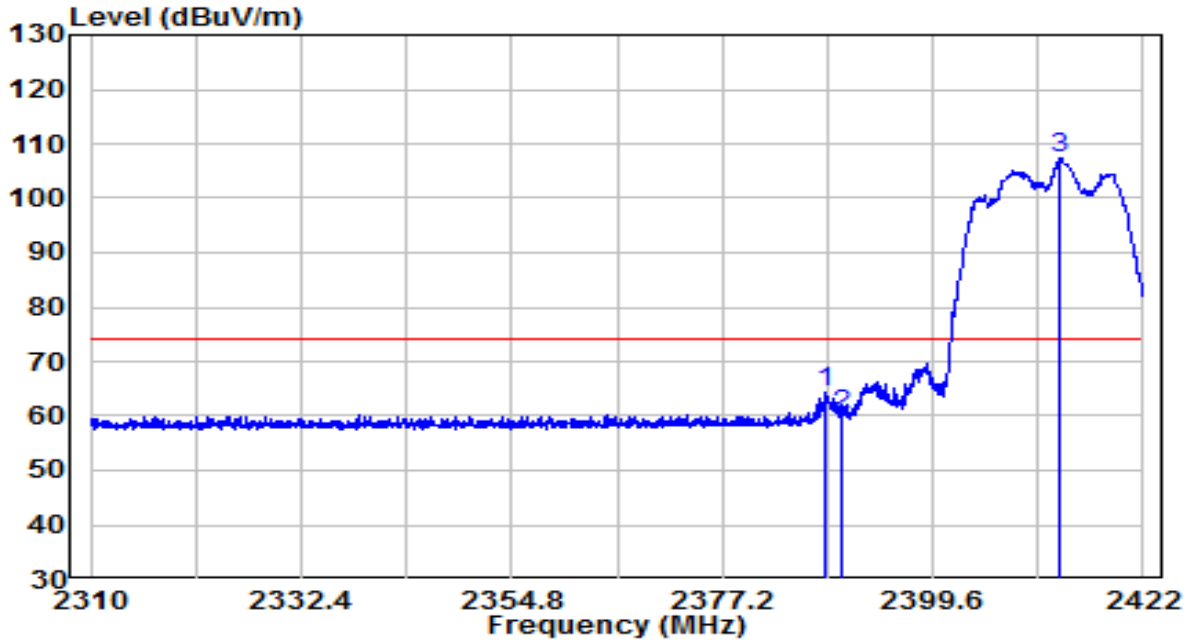


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	2461.192	75.92	32.52	108.44	N/A	N/A	Average
2		2483.488	13.81	32.61	46.42	-7.58	54.00	Average
3		2486.344	14.18	32.62	46.80	-7.20	54.00	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

EUT	AC1200 Whole Home Mesh Wi-Fi System	Date of Test	2021-11-12
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	23.0°C/39.7%
Polarity	Horizontal	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11g at Channel 2412MHz	Test Voltage	120V/60Hz

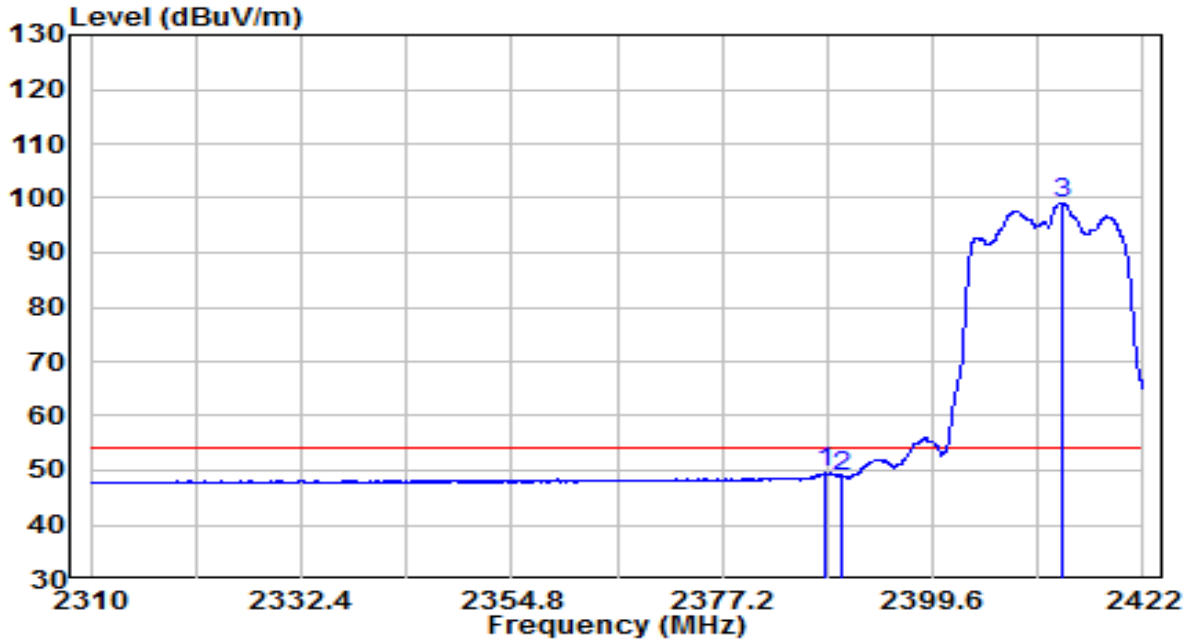


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1		2388.176	32.07	32.21	64.28	-9.72	74.00	Peak
2		2390.000	28.15	32.22	60.37	-13.63	74.00	Peak
3	*	2413.208	75.23	32.32	107.54	N/A	N/A	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

EUT	AC1200 Whole Home Mesh Wi-Fi System	Date of Test	2021-11-12
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	23.0°C/39.7%
Polarity	Horizontal	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11g at Channel 2412MHz	Test Voltage	120V/60Hz

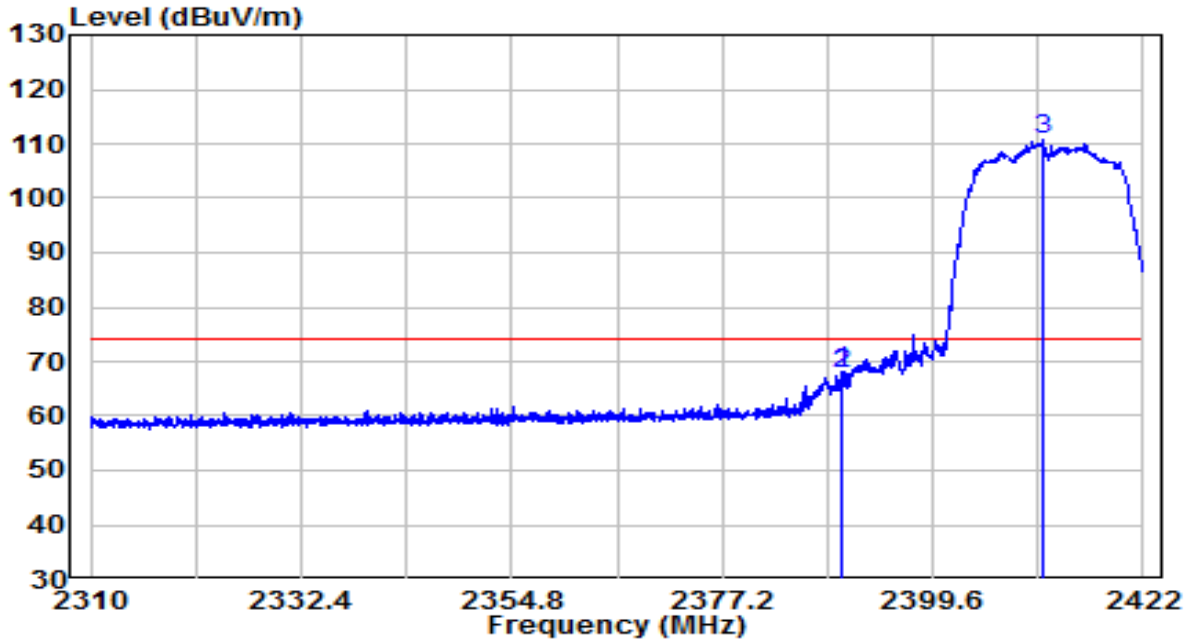


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1		2388.120	17.40	32.21	49.61	-4.39	54.00	Average
2		2390.000	16.61	32.22	48.82	-5.18	54.00	Average
3	*	2413.376	66.74	32.32	99.06	N/A	N/A	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

EUT	AC1200 Whole Home Mesh Wi-Fi System	Date of Test	2021-11-12
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	23.0°C/39.7%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11g at Channel 2412MHz	Test Voltage	120V/60Hz

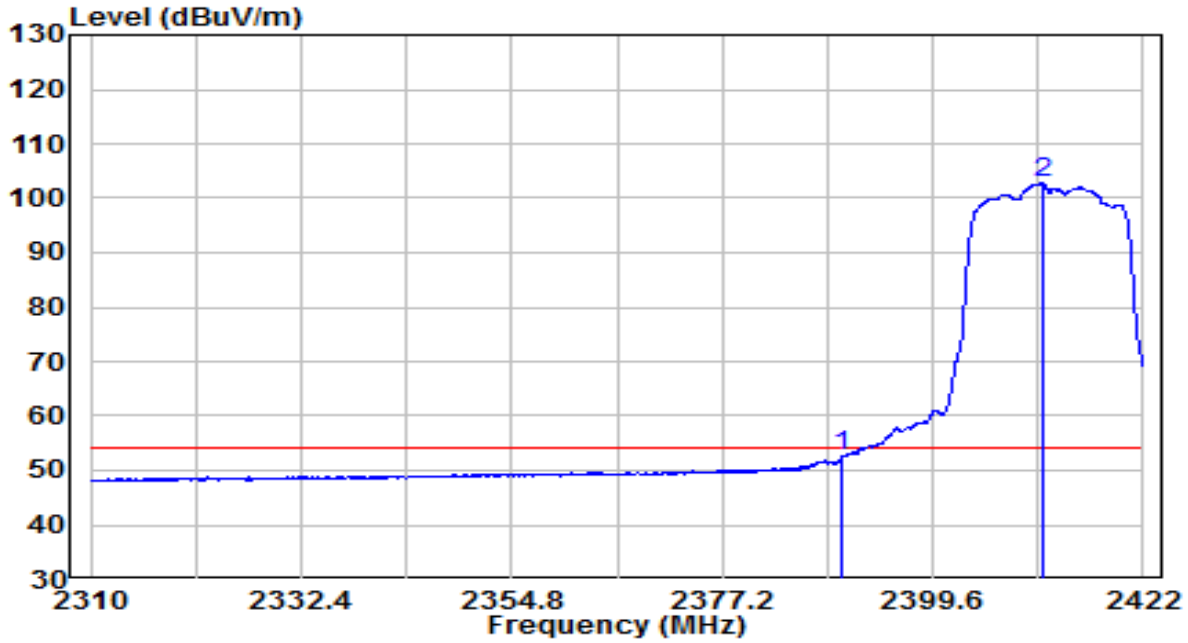


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1		2389.968	35.91	32.22	68.13	-5.87	74.00	Peak
2		2390.000	35.48	32.22	67.69	-6.31	74.00	Peak
3	*	2411.248	78.32	32.31	110.63	N/A	N/A	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

EUT	AC1200 Whole Home Mesh Wi-Fi System	Date of Test	2021-11-12
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	23.0°C/39.7%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11g at Channel 2412MHz	Test Voltage	120V/60Hz

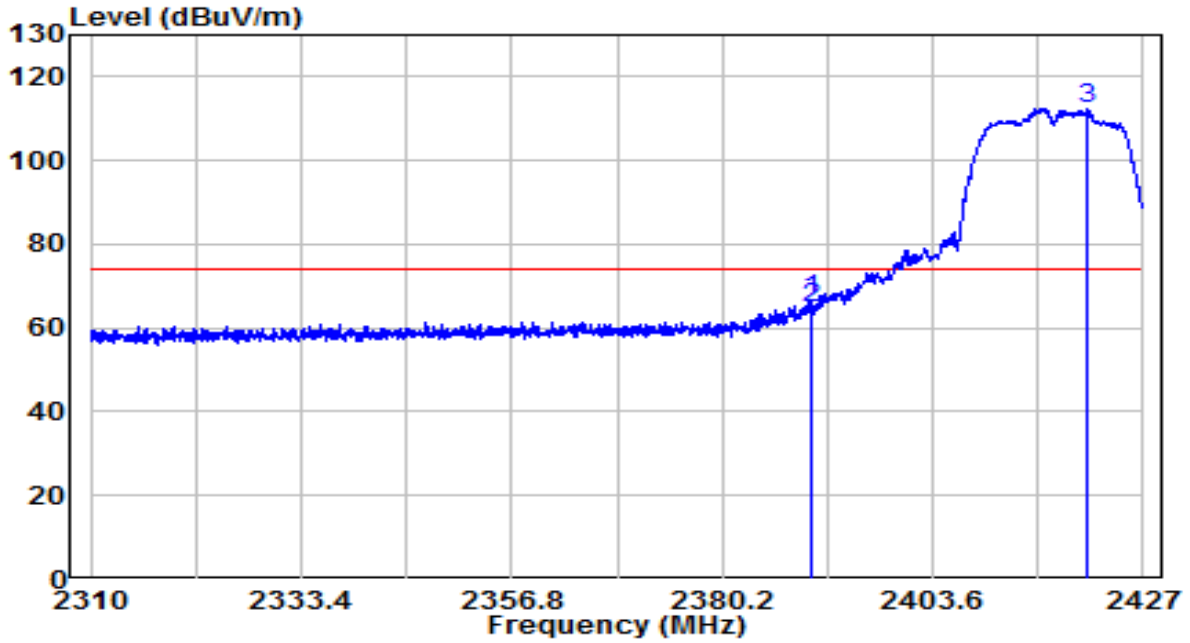


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1		2390.000	20.32	32.22	52.54	-1.46	54.00	Average
2	*	2411.304	70.36	32.31	102.67	N/A	N/A	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

EUT	AC1200 Whole Home Mesh Wi-Fi System	Date of Test	2021-12-10
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	18.2°C/32.5%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11g at Channel 2417 MHz	Test Voltage	120V 60Hz

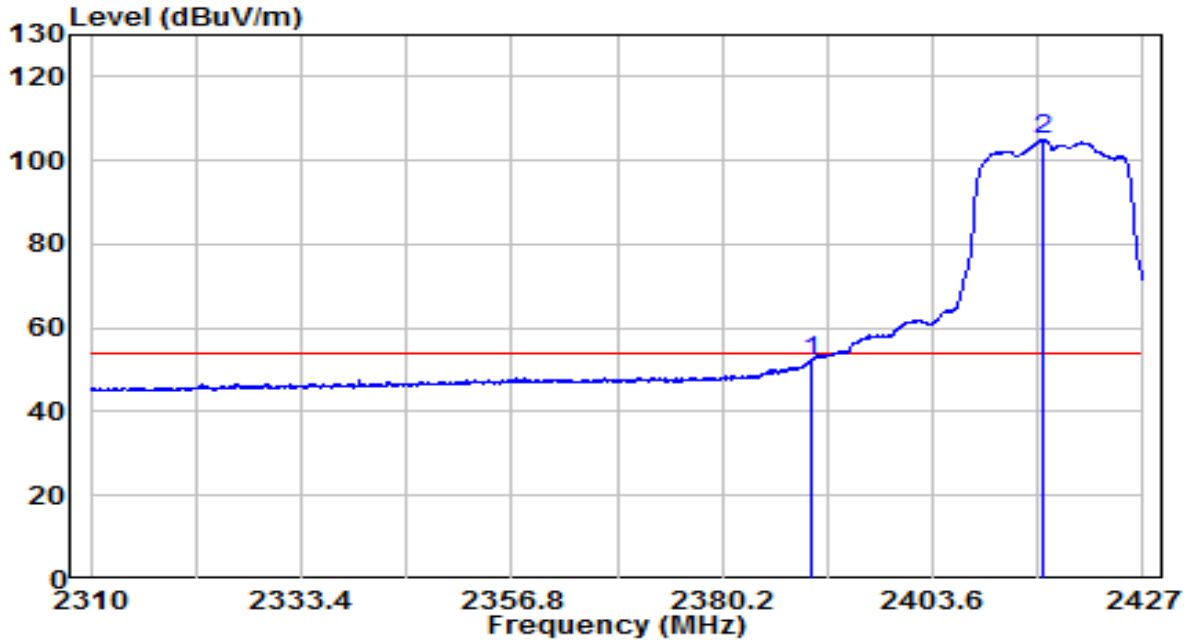


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1		2389.969	34.28	32.22	66.49	-7.51	74.00	Peak
2		2390.000	32.36	32.22	64.58	-9.42	74.00	Peak
3	*	2420.682	80.11	32.35	112.46	N/A	N/A	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

EUT	AC1200 Whole Home Mesh Wi-Fi System	Date of Test	2021-12-10
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	18.2°C/32.5%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11g at Channel 2417 MHz	Test Voltage	120V 60Hz

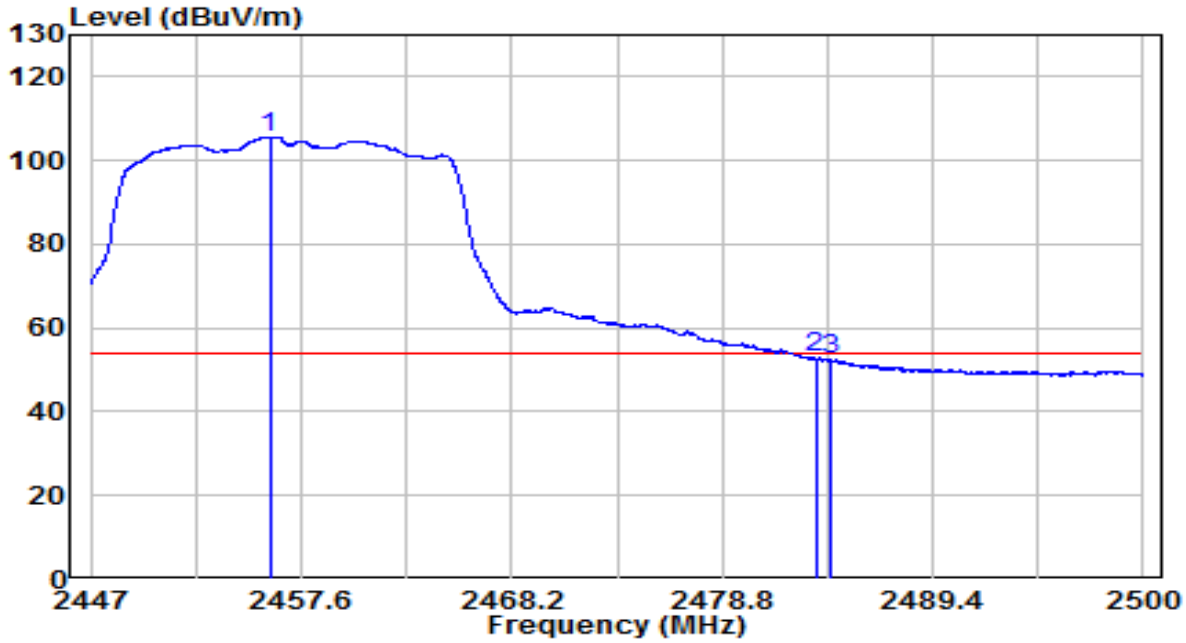


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1		2390.000	19.98	32.22	52.19	-1.81	54.00	Average
2	*	2416.002	72.60	32.33	104.92	N/A	N/A	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

EUT	AC1200 Whole Home Mesh Wi-Fi System	Date of Test	2021-12-10
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	18.2°C/32.5%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11g at Channel 2457 MHz	Test Voltage	120V 60Hz

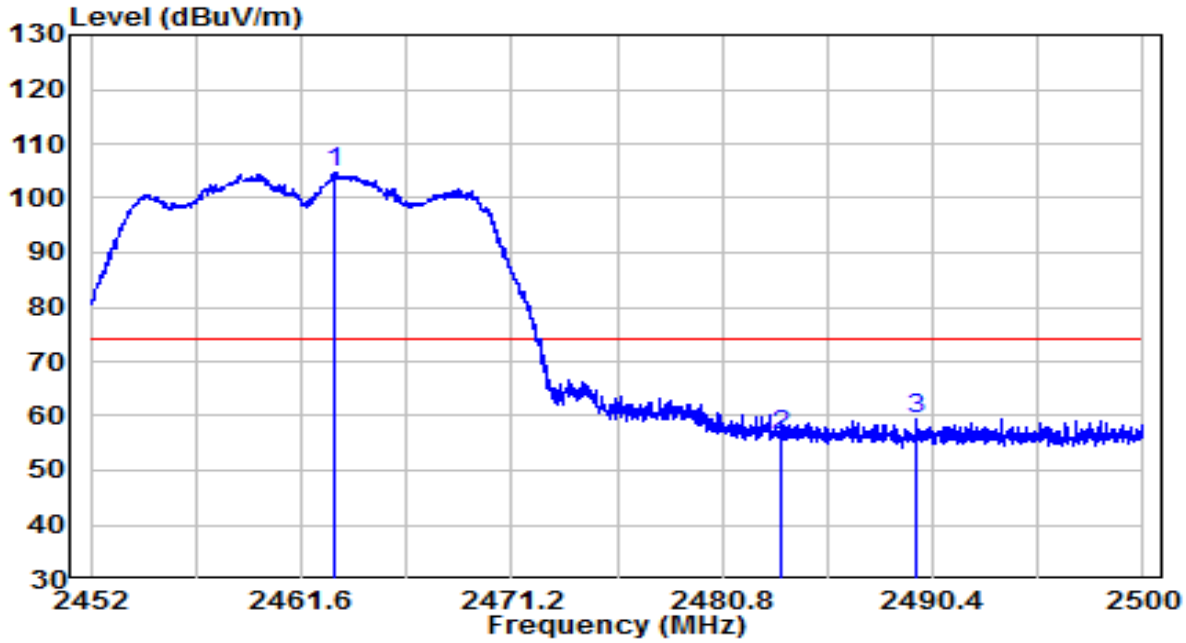


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	2456.010	73.20	32.50	105.69	N/A	N/A	Average
2		2483.500	20.16	32.61	52.77	-1.23	54.00	Average
3		2484.206	20.00	32.61	52.61	-1.39	54.00	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

EUT	AC1200 Whole Home Mesh Wi-Fi System	Date of Test	2021-12-10
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	23.0°C/39.7%
Polarity	Horizontal	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11g at Channel 2462MHz	Test Voltage	120V/60Hz

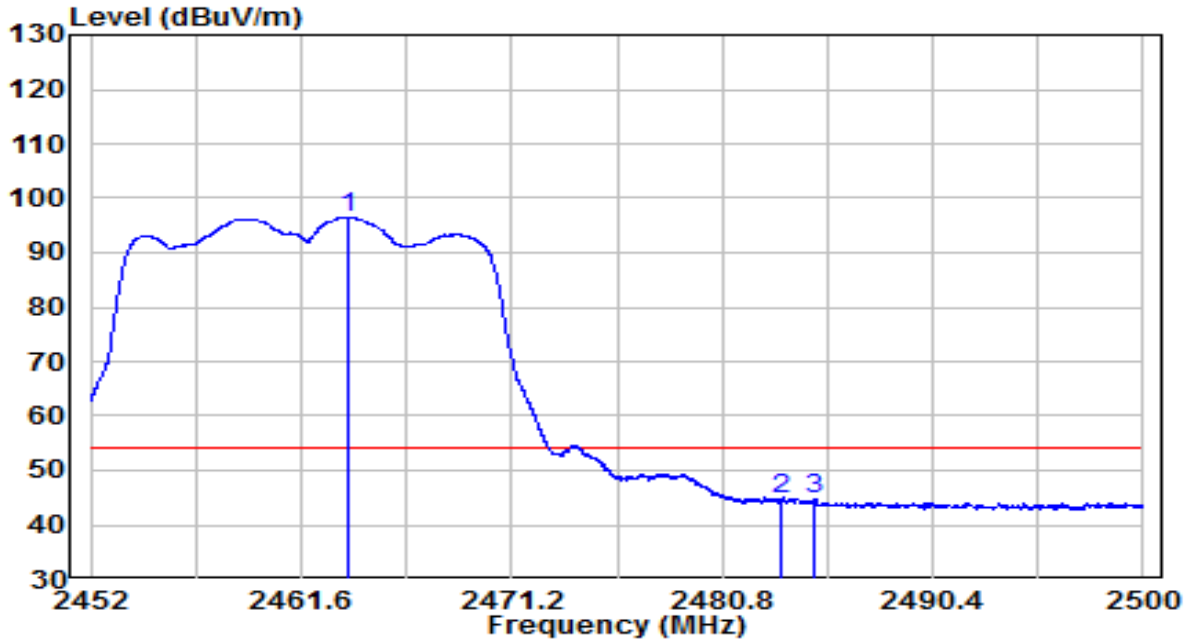


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	2463.088	72.06	32.52	104.59	N/A	N/A	Peak
2		2483.488	23.96	32.61	56.57	-17.43	74.00	Peak
3		2489.608	26.93	32.64	59.57	-14.43	74.00	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

EUT	AC1200 Whole Home Mesh Wi-Fi System	Date of Test	2021-12-10
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	23.0°C/39.7%
Polarity	Horizontal	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11g at Channel 2462MHz	Test Voltage	120V/60Hz

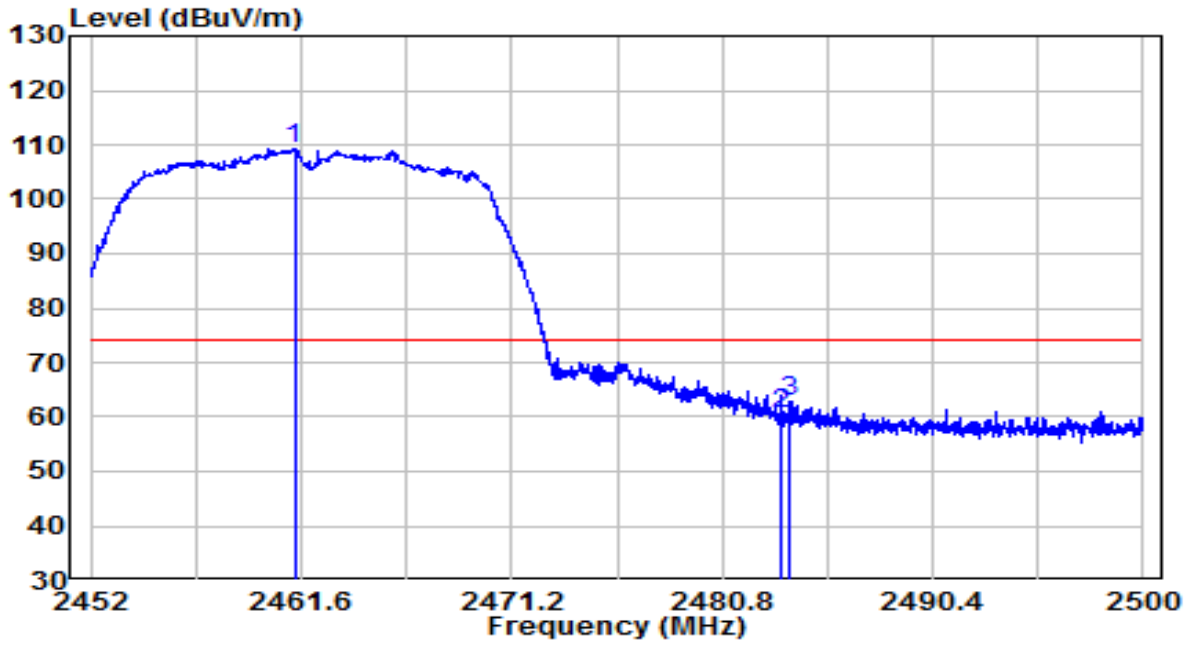


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	2463.760	64.07	32.53	96.60	N/A	N/A	Average
2		2483.488	12.14	32.61	44.75	-9.25	54.00	Average
3		2484.976	12.15	32.62	44.76	-9.24	54.00	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

EUT	AC1200 Whole Home Mesh Wi-Fi System	Date of Test	2021-12-10
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	23.0°C/39.7%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11g at Channel 2462MHz	Test Voltage	120V/60Hz

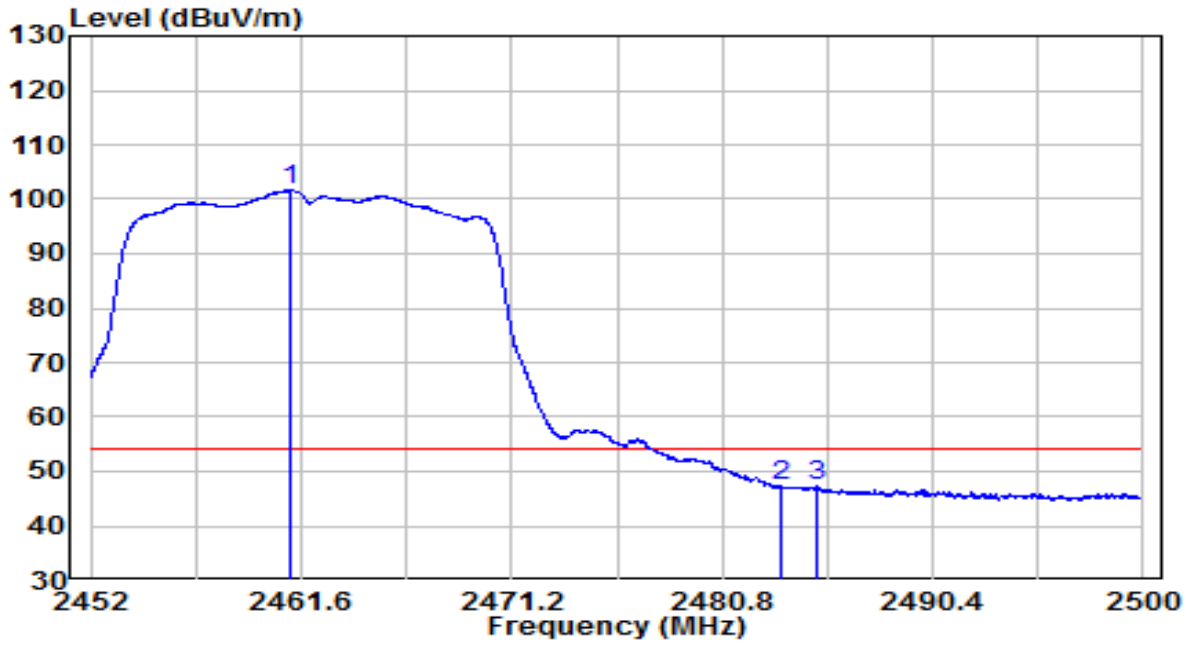


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	2461.288	76.87	32.52	109.39	N/A	N/A	Peak
2		2483.488	27.84	32.61	60.45	-13.55	74.00	Peak
3		2483.872	30.27	32.61	62.89	-11.11	74.00	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

EUT	AC1200 Whole Home Mesh Wi-Fi System	Date of Test	2021-12-10
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	23.0°C/39.7%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11g at Channel 2462MHz	Test Voltage	120V/60Hz

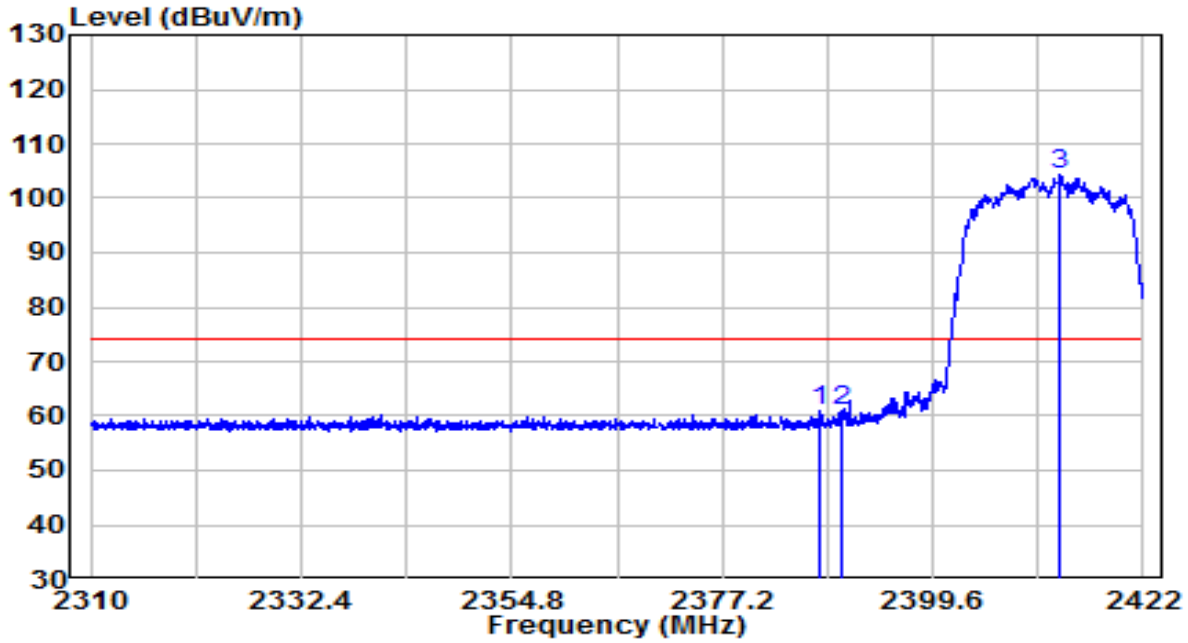


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	2461.096	69.14	32.52	101.66	N/A	N/A	Average
2		2483.488	14.86	32.61	47.47	-6.53	54.00	Average
3		2485.120	14.56	32.62	47.18	-6.82	54.00	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

EUT	AC1200 Whole Home Mesh Wi-Fi System	Date of Test	2021-11-12
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	23.0°C/39.7%
Polarity	Horizontal	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11n-HT20 at Channel 2412MHz	Test Voltage	120V/60Hz

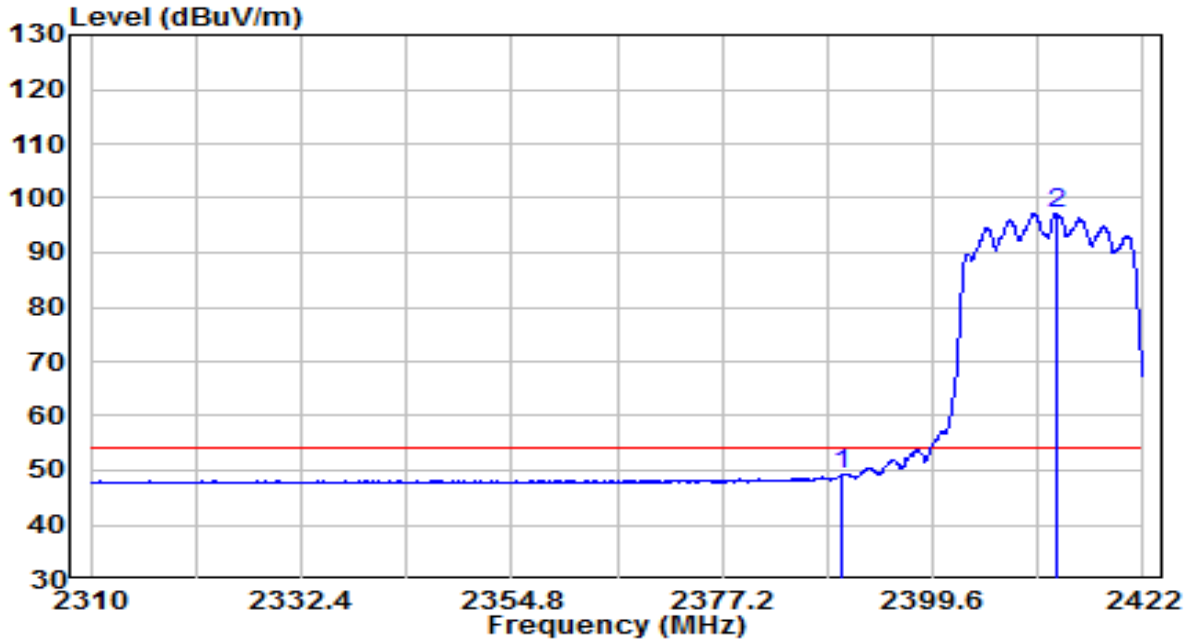


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1		2387.560	28.55	32.21	60.75	-13.25	74.00	Peak
2		2390.000	28.60	32.22	60.82	-13.18	74.00	Peak
3	*	2413.152	71.84	32.32	104.16	N/A	N/A	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

EUT	AC1200 Whole Home Mesh Wi-Fi System	Date of Test	2021-11-12
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	23.0°C/39.7%
Polarity	Horizontal	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11n-HT20 at Channel 2412MHz	Test Voltage	120V/60Hz

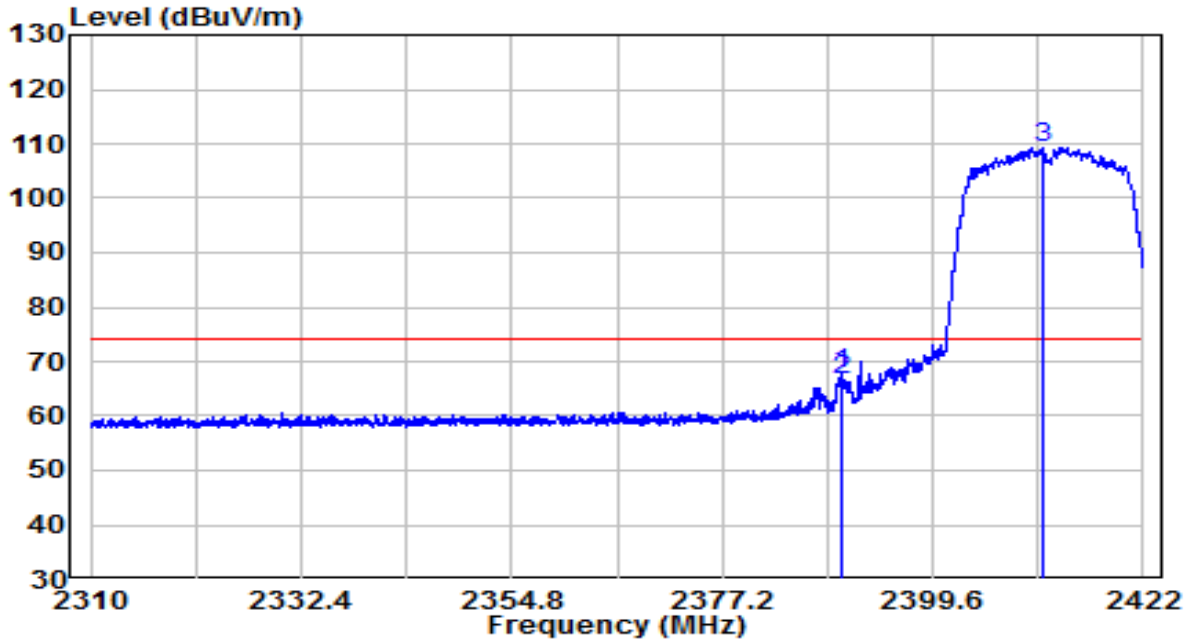


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1		2390.000	16.89	32.22	49.11	-4.89	54.00	Average
2	*	2412.704	64.85	32.31	97.16	N/A	N/A	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

EUT	AC1200 Whole Home Mesh Wi-Fi System	Date of Test	2021-11-12
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	23.0°C/39.7%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11n-HT20 at Channel 2412MHz	Test Voltage	120V/60Hz

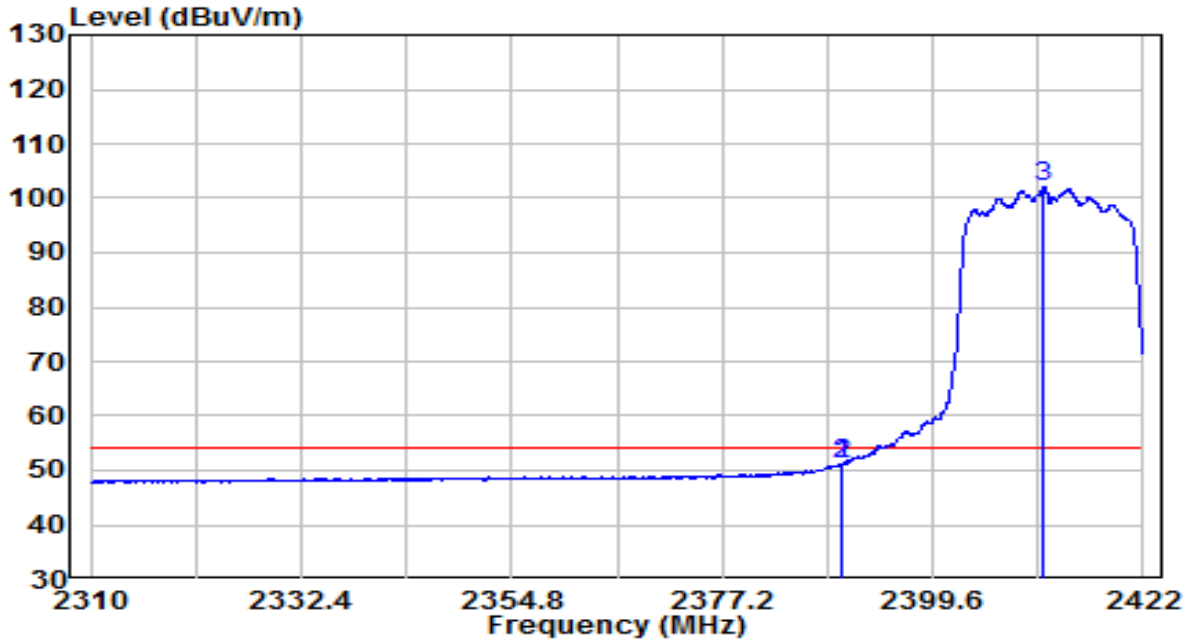


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1		2389.800	35.35	32.22	67.57	-6.43	74.00	Peak
2		2390.000	34.32	32.22	66.54	-7.46	74.00	Peak
3	*	2411.360	77.07	32.31	109.37	N/A	N/A	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

EUT	AC1200 Whole Home Mesh Wi-Fi System	Date of Test	2021-11-12
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	23.0°C/39.7%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11n-HT20 at Channel 2412MHz	Test Voltage	120V/60Hz

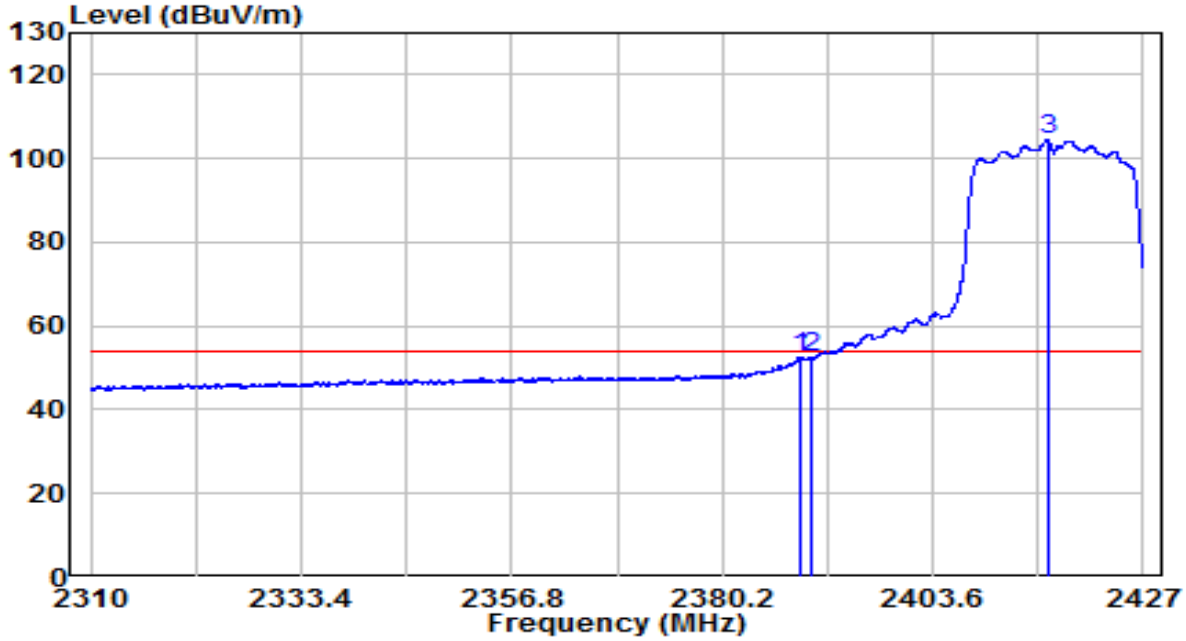


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1		2389.856	18.94	32.22	51.16	-2.84	54.00	Average
2		2390.000	18.82	32.22	51.04	-2.96	54.00	Average
3	*	2411.472	69.68	32.31	101.99	N/A	N/A	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

EUT	AC1200 Whole Home Mesh Wi-Fi System	Date of Test	2021-12-10
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	18.2°C/32.5%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11n-HT20 at Channel 2417 MHz	Test Voltage	120V 60Hz

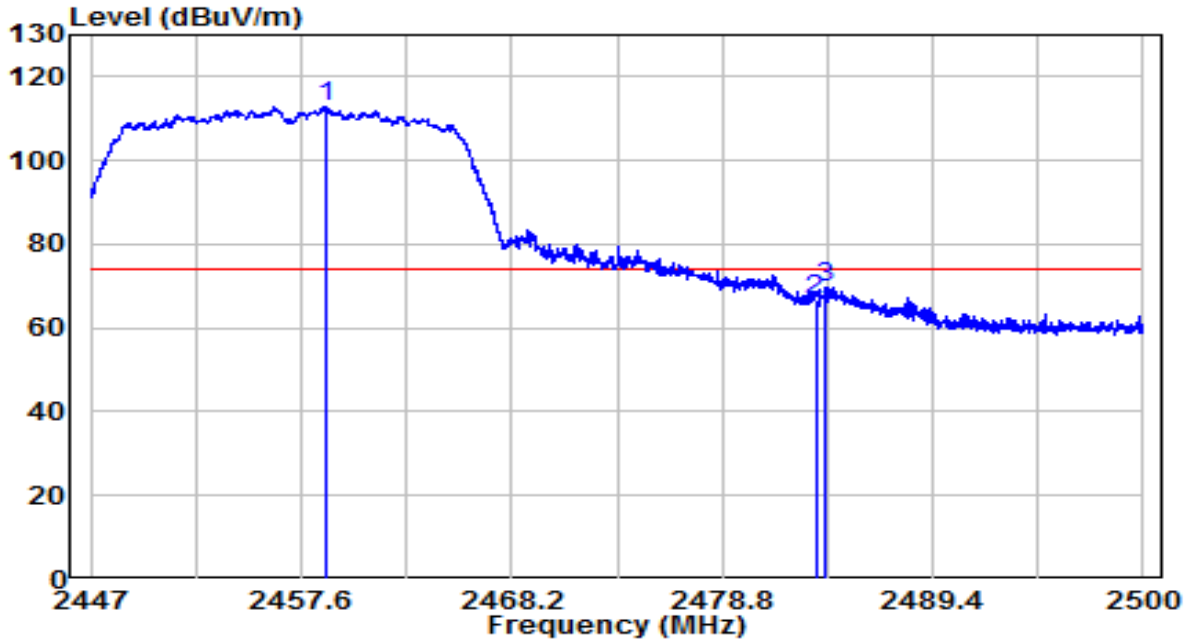


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1		2388.917	20.13	32.21	52.34	-1.66	54.00	Average
2		2390.000	20.10	32.22	52.32	-1.68	54.00	Average
3	*	2416.412	72.02	32.33	104.35	N/A	N/A	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

EUT	AC1200 Whole Home Mesh Wi-Fi System	Date of Test	2021-12-10
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	18.2°C/32.5%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11n-HT20 at Channel 2457 MHz	Test Voltage	120V 60Hz

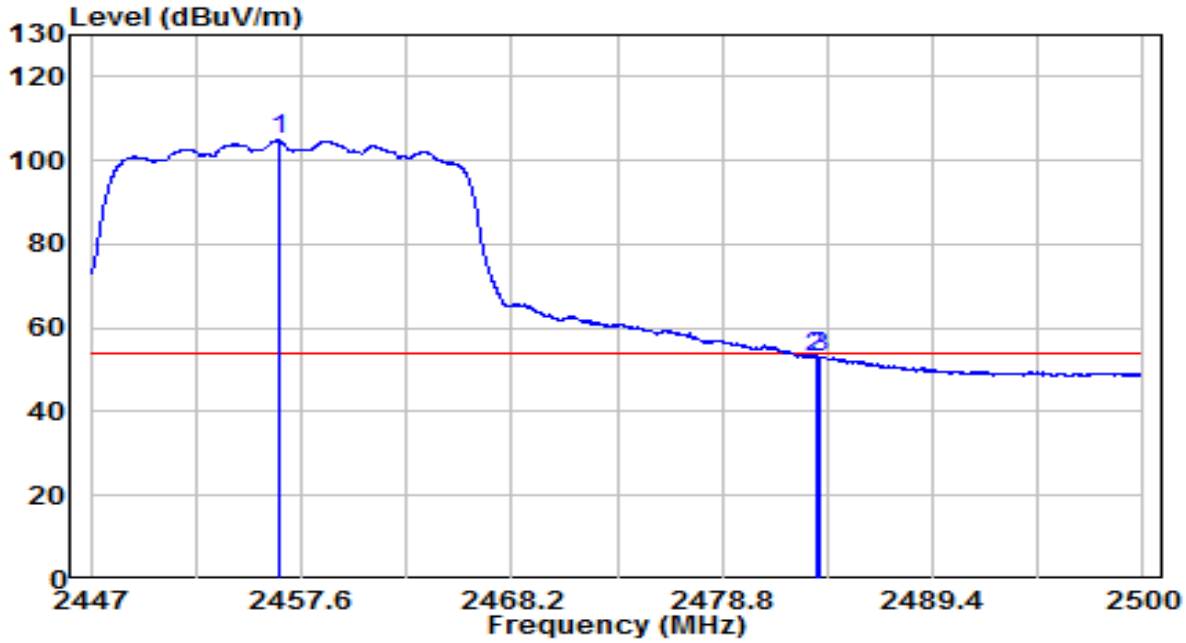


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	2458.898	80.53	32.51	113.04	N/A	N/A	Peak
2		2483.500	34.09	32.61	66.70	-7.30	74.00	Peak
3		2483.994	37.27	32.61	69.88	-4.12	74.00	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

EUT	AC1200 Whole Home Mesh Wi-Fi System	Date of Test	2021-12-10
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	18.2°C/32.5%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11n-HT20 at Channel 2457 MHz	Test Voltage	120V 60Hz

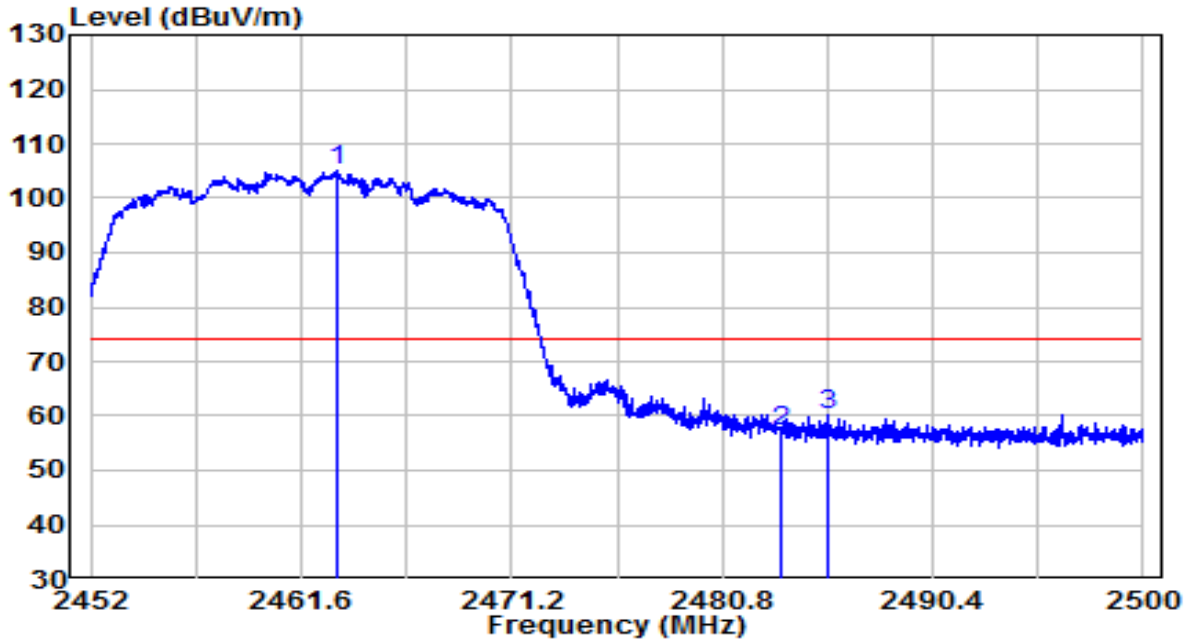


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	2456.434	72.29	32.50	104.79	N/A	N/A	Average
2		2483.500	20.56	32.61	53.17	-0.83	54.00	Average
3		2483.676	20.51	32.61	53.12	-0.88	54.00	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

EUT	AC1200 Whole Home Mesh Wi-Fi System	Date of Test	2021-12-10
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	23.0°C/39.7%
Polarity	Horizontal	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11n-HT20 at Channel 2462MHz	Test Voltage	120V/60Hz

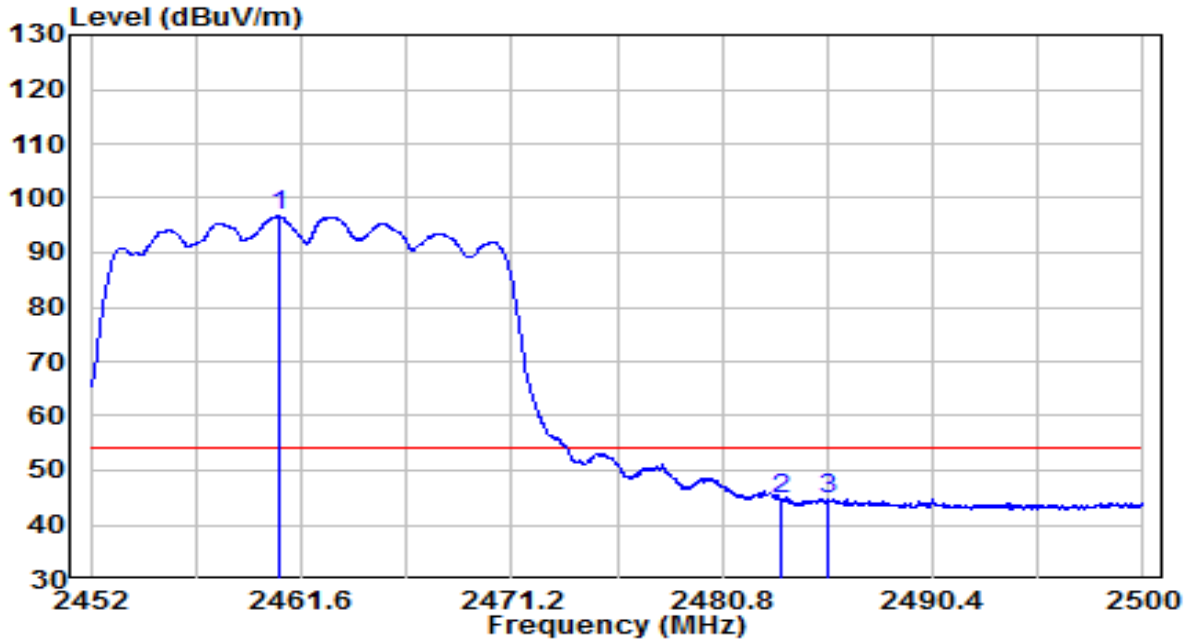


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	2463.208	72.41	32.53	104.94	N/A	N/A	Peak
2		2483.500	24.51	32.61	57.12	-16.88	74.00	Peak
3		2485.600	27.61	32.62	60.22	-13.78	74.00	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

EUT	AC1200 Whole Home Mesh Wi-Fi System	Date of Test	2021-12-10
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	23.0°C/39.7%
Polarity	Horizontal	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11n-HT20 at Channel 2462MH	Test Voltage	120V/60Hz

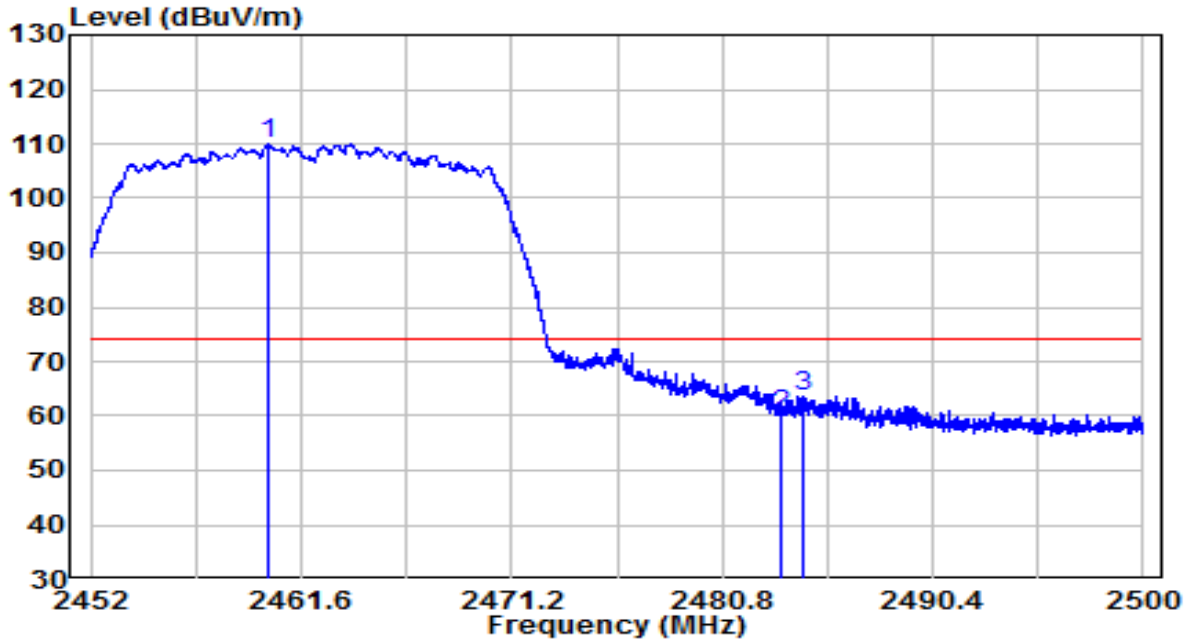


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	2460.616	64.19	32.51	96.71	N/A	N/A	Average
2		2483.500	11.96	32.61	44.57	-9.43	54.00	Average
3		2485.624	12.05	32.62	44.67	-9.33	54.00	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

EUT	AC1200 Whole Home Mesh Wi-Fi System	Date of Test	2021-12-10
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	23.0°C/39.7%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11n-HT20 at Channel 2462MHz	Test Voltage	120V/60Hz

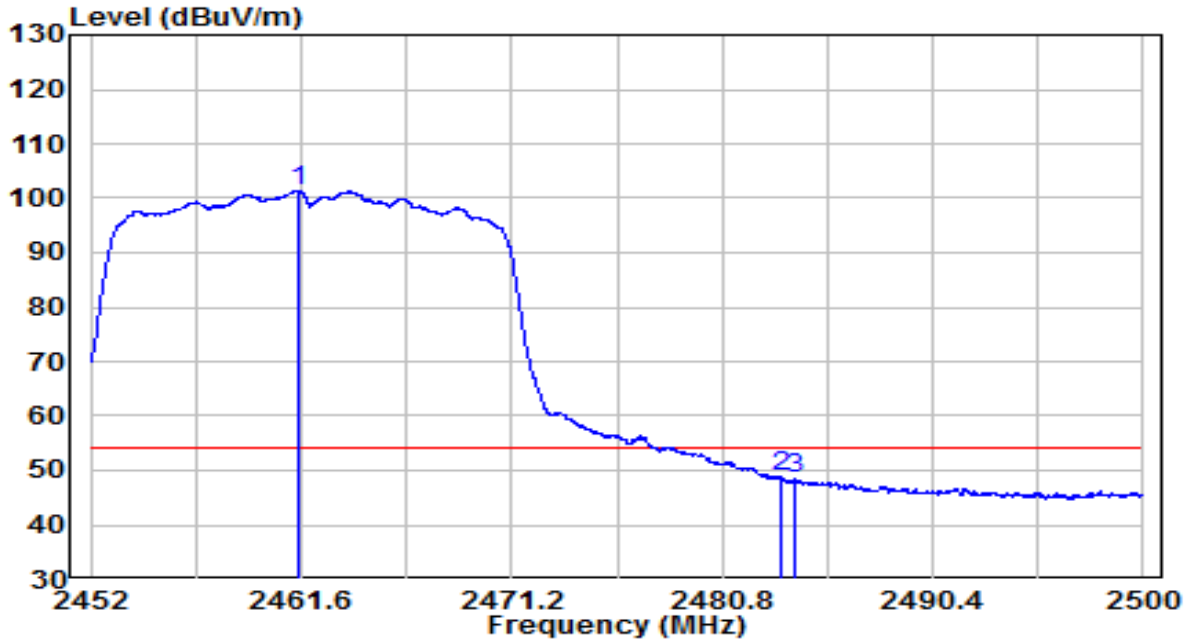


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	2460.112	77.37	32.51	109.88	N/A	N/A	Peak
2		2483.488	27.69	32.61	60.30	-13.70	74.00	Peak
3		2484.448	31.13	32.61	63.74	-10.26	74.00	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

EUT	AC1200 Whole Home Mesh Wi-Fi System	Date of Test	2021-12-10
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	23.0°C/39.7%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11n-HT20 at Channel 2462MHz	Test Voltage	120V/60Hz

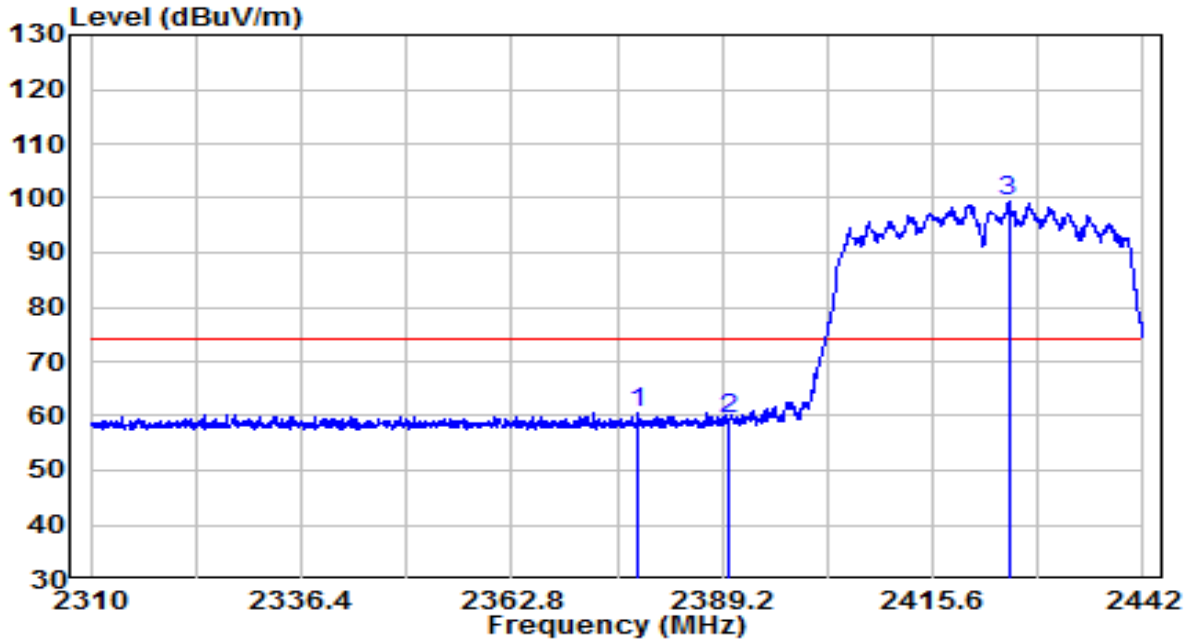


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	2461.432	68.90	32.52	101.42	N/A	N/A	Average
2		2483.488	16.13	32.61	48.74	-5.26	54.00	Average
3		2484.088	15.69	32.61	48.30	-5.70	54.00	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

EUT	AC1200 Whole Home Mesh Wi-Fi System	Date of Test	2021-11-12
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	23.0°C/39.7%
Polarity	Horizontal	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11n-HT40 at Channel 2422MHz	Test Voltage	120V/60Hz

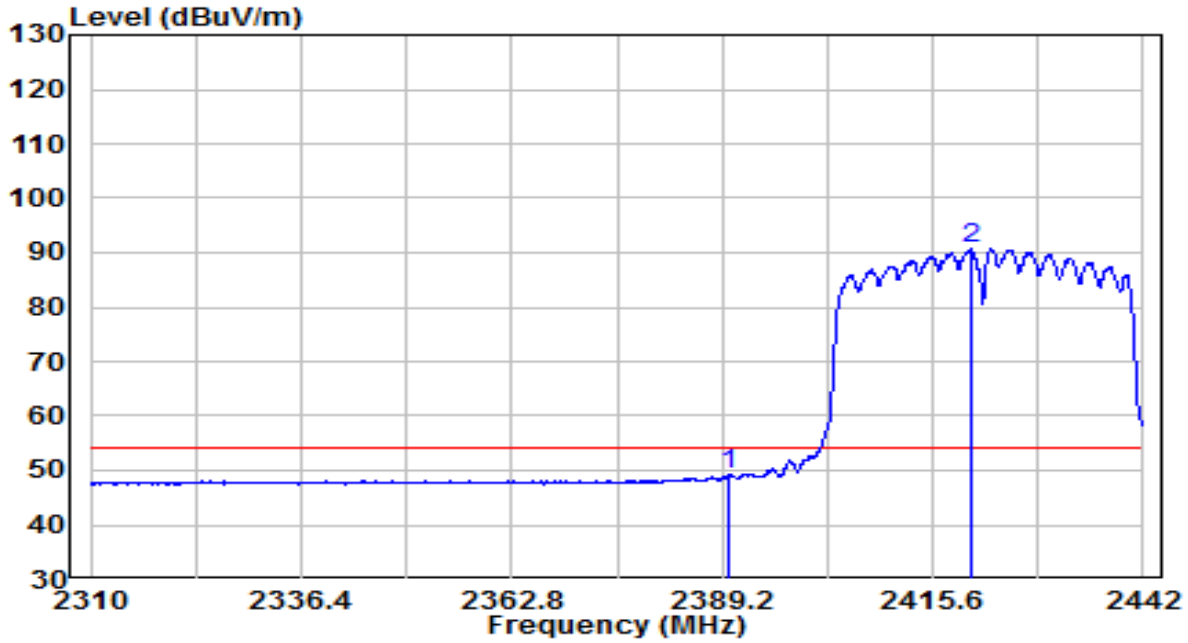


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1		2378.706	28.30	32.17	60.47	-13.53	74.00	Peak
2		2390.000	27.13	32.22	59.35	-14.65	74.00	Peak
3	*	2425.104	67.03	32.37	99.39	N/A	N/A	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

EUT	AC1200 Whole Home Mesh Wi-Fi System	Date of Test	2021-11-12
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	23.0°C/39.7%
Polarity	Horizontal	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11n-HT40 at Channel 2422MHz	Test Voltage	120V/60Hz

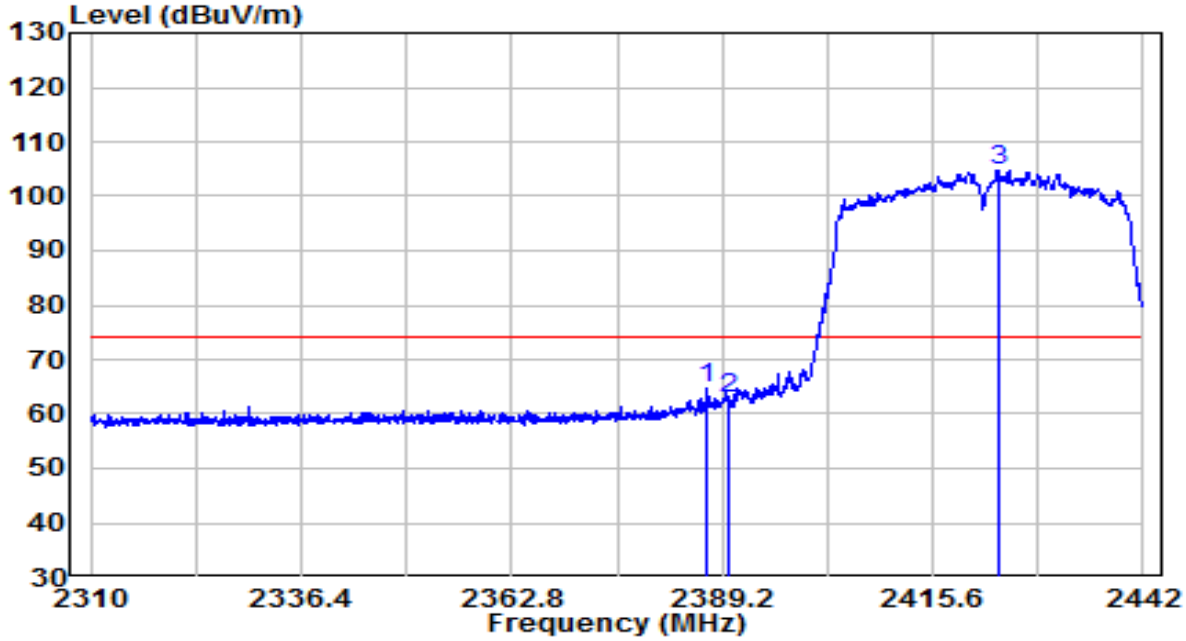


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1		2390.000	17.00	32.22	49.22	-4.78	54.00	Average
2	*	2420.418	58.41	32.35	90.76	N/A	N/A	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

EUT	AC1200 Whole Home Mesh Wi-Fi System	Date of Test	2021-11-12
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	23.0°C/39.7%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11n-HT40 at Channel 2422MHz	Test Voltage	120V/60Hz

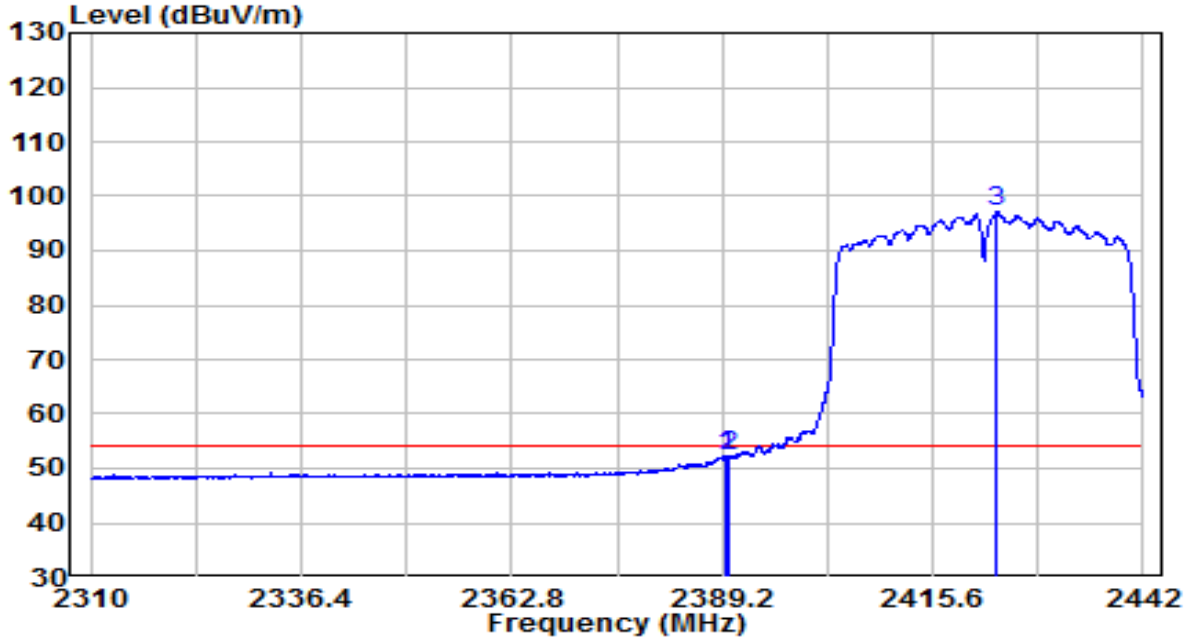


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1		2387.286	32.41	32.21	64.62	-9.38	74.00	Peak
2		2390.000	30.57	32.22	62.79	-11.21	74.00	Peak
3	*	2423.784	72.54	32.36	104.90	N/A	N/A	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

EUT	AC1200 Whole Home Mesh Wi-Fi System	Date of Test	2021-11-12
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	23.0°C/39.7%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11n-HT40 at Channel 2422MHz	Test Voltage	120V/60Hz

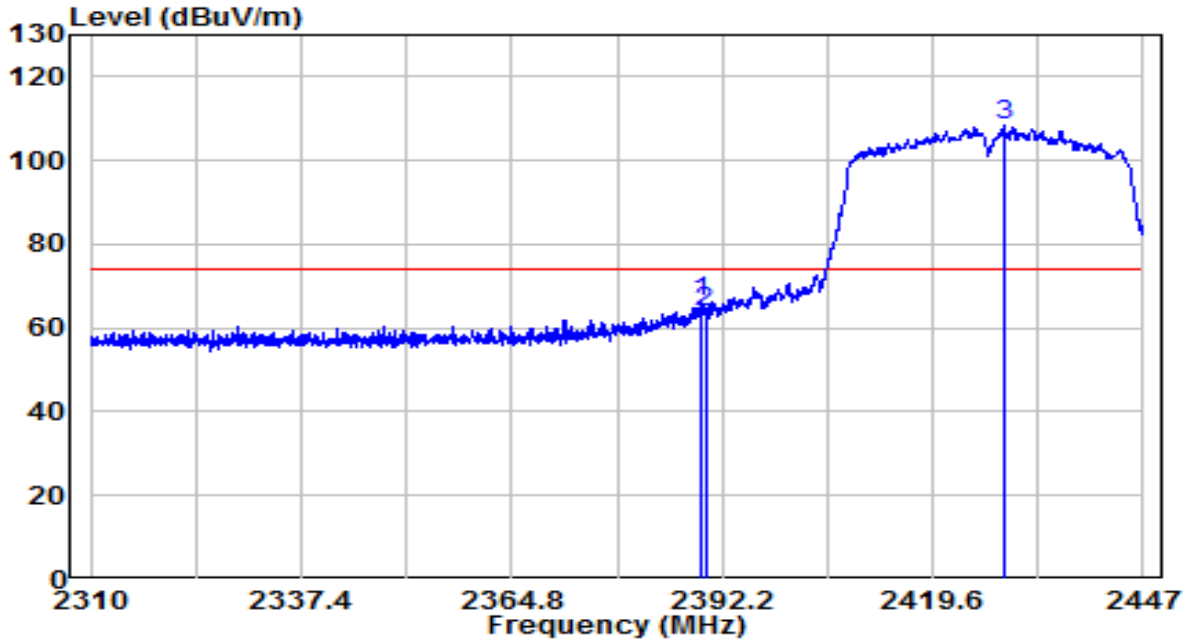


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1		2389.728	20.15	32.22	52.37	-1.63	54.00	Average
2		2390.000	20.07	32.22	52.28	-1.72	54.00	Average
3	*	2423.718	64.75	32.36	97.11	N/A	N/A	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

EUT	AC1200 Whole Home Mesh Wi-Fi System	Date of Test	2021-12-10
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	18.2°C/32.5%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11n-HT40 at Channel 2427 MHz	Test Voltage	120V 60Hz

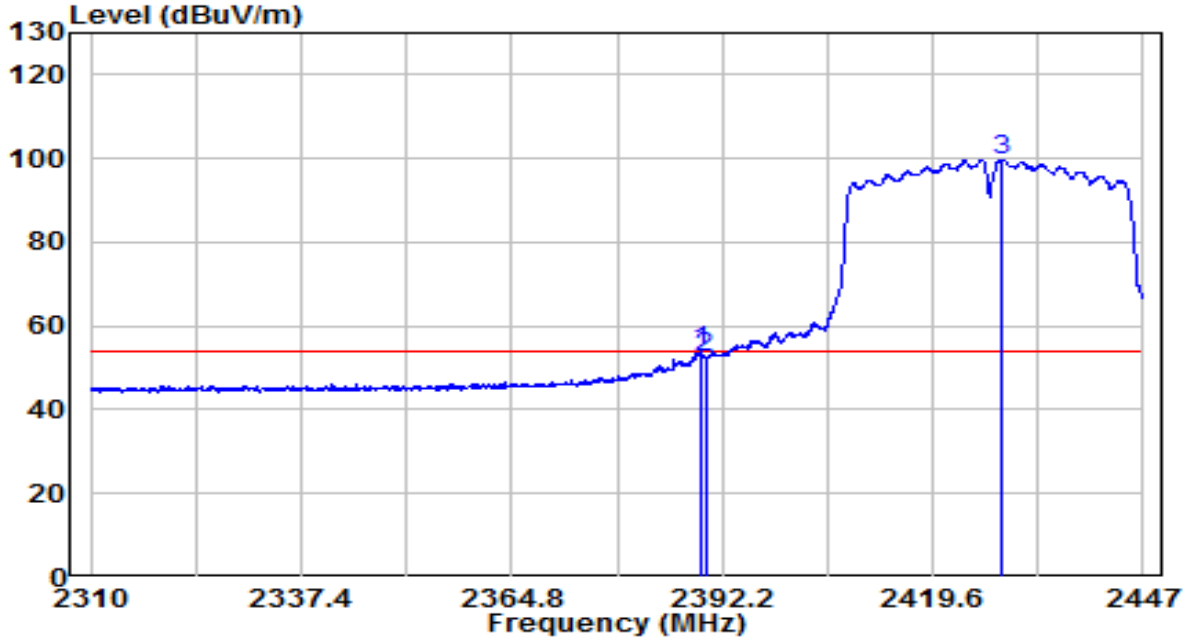


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1		2389.392	34.10	32.22	66.32	-7.68	74.00	Peak
2		2390.000	31.60	32.22	63.82	-10.18	74.00	Peak
3	*	2428.847	75.79	32.38	108.18	N/A	N/A	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

EUT	AC1200 Whole Home Mesh Wi-Fi System	Date of Test	2021-12-10
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	18.2°C/32.5%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11n-HT40 at Channel 2427 MHz	Test Voltage	120V 60Hz

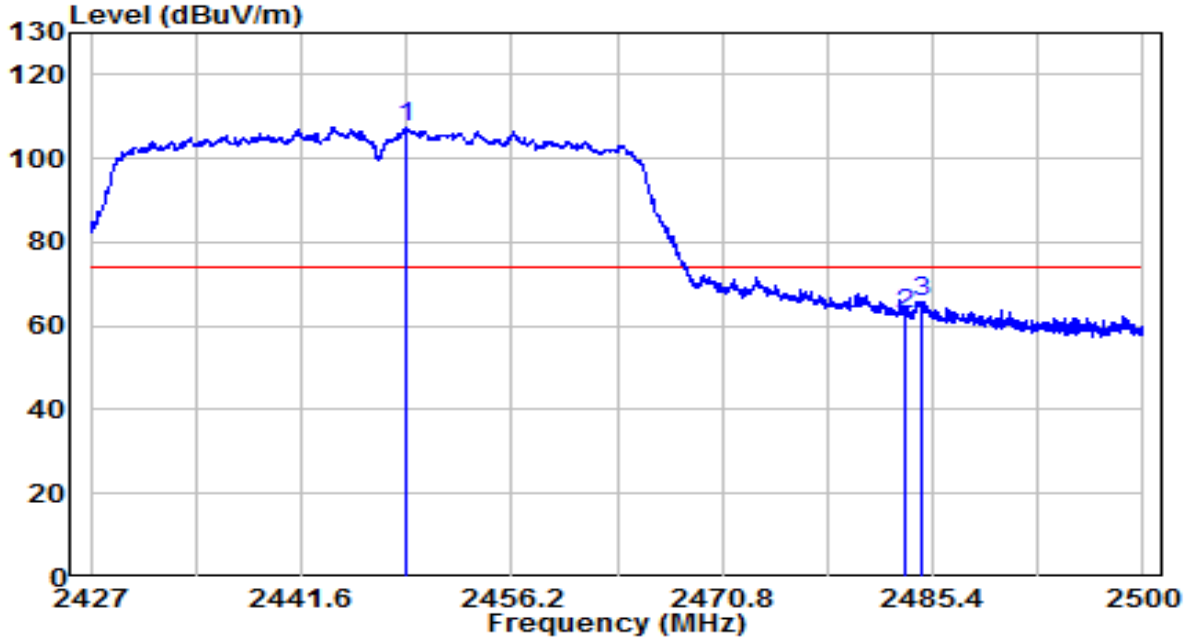


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1		2389.323	21.55	32.22	53.77	-0.23	54.00	Average
2		2390.000	20.50	32.22	52.71	-1.29	54.00	Average
3	*	2428.437	67.42	32.38	99.80	N/A	N/A	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

EUT	AC1200 Whole Home Mesh Wi-Fi System	Date of Test	2021-12-10
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	18.2°C/32.5%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11n-HT40 at Channel 2447 MHz	Test Voltage	120V 60Hz

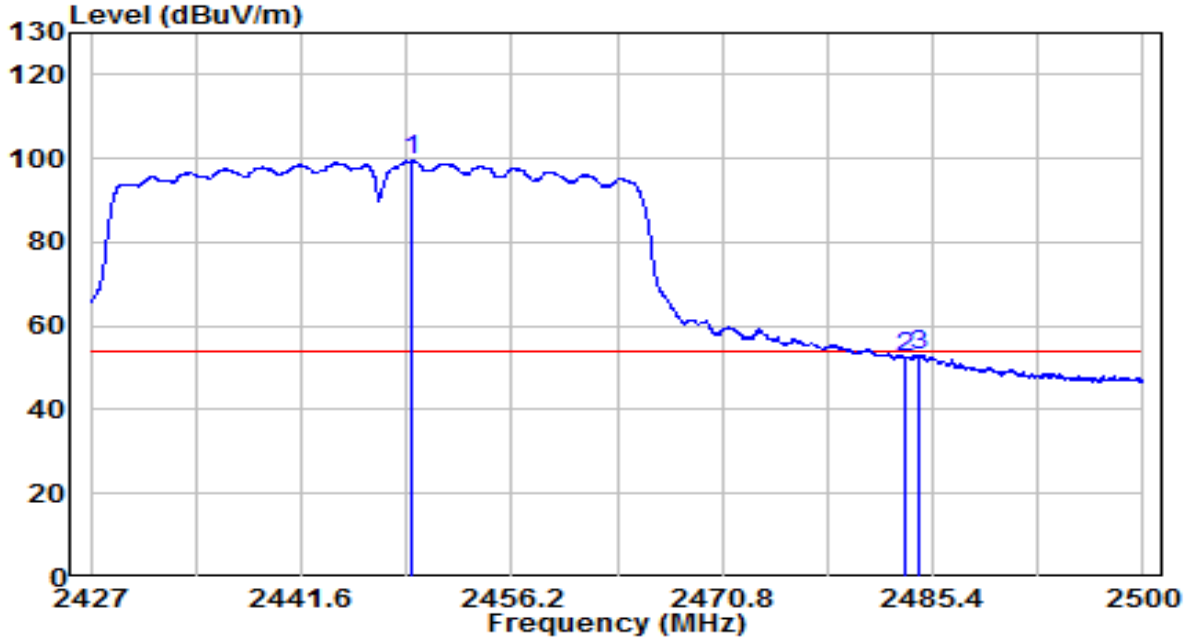


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	2448.791	75.09	32.46	107.56	N/A	N/A	Peak
2		2483.500	29.99	32.61	62.60	-11.40	74.00	Peak
3		2484.707	33.29	32.62	65.91	-8.09	74.00	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

EUT	AC1200 Whole Home Mesh Wi-Fi System	Date of Test	2021-12-10
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	18.2°C/32.5%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11n-HT40 at Channel 2447 MHz	Test Voltage	120V 60Hz

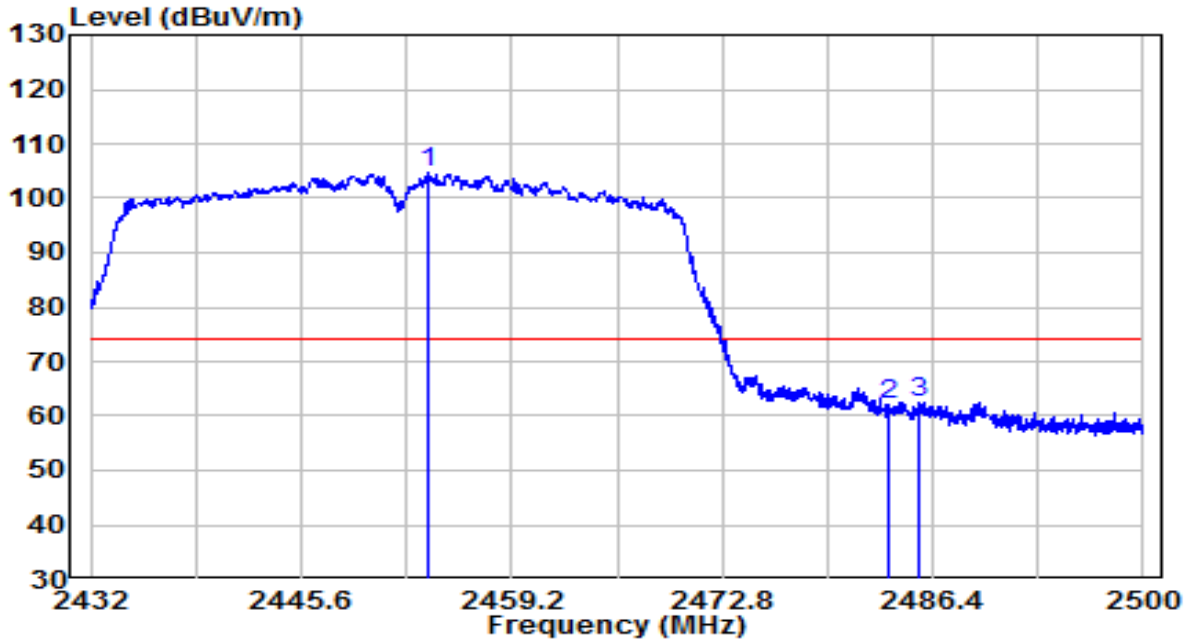


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	2449.265	66.96	32.47	99.43	N/A	N/A	Average
2		2483.500	19.65	32.61	52.26	-1.74	54.00	Average
3		2484.378	20.55	32.61	53.17	-0.83	54.00	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

EUT	AC1200 Whole Home Mesh Wi-Fi System	Date of Test	2021-12-10
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	23.0°C/39.7%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11n-HT40 at Channel 2452MHz	Test Voltage	120V/60Hz

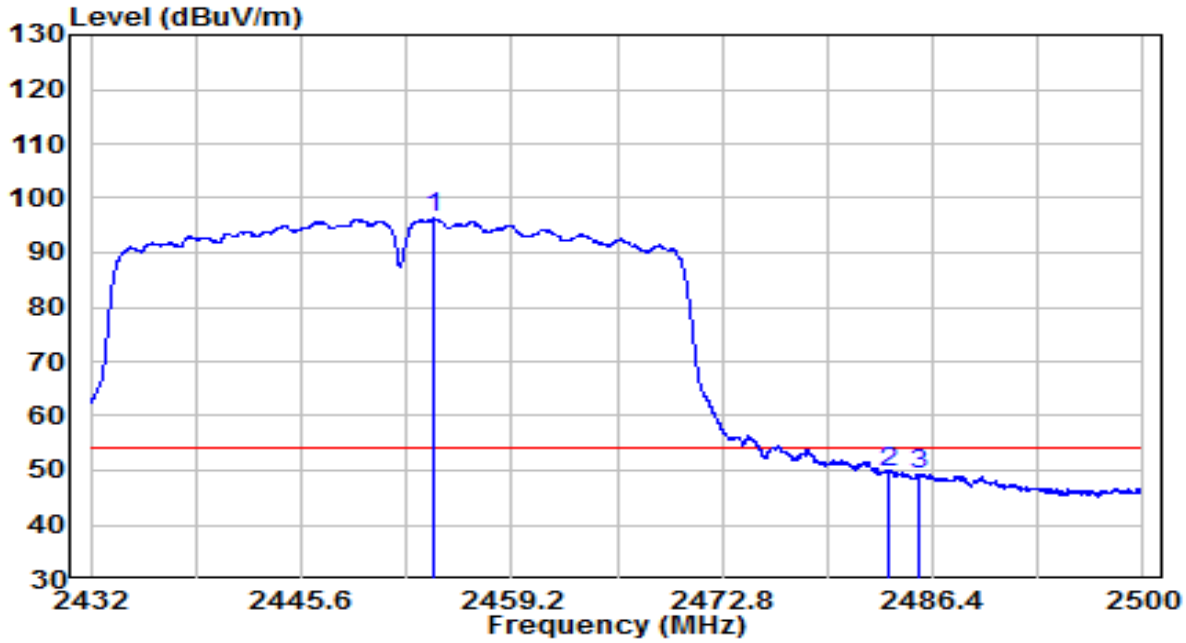


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	2453.726	72.17	32.49	104.66	N/A	N/A	Peak
2		2483.510	29.53	32.61	62.14	-11.86	74.00	Peak
3		2485.550	29.94	32.62	62.55	-11.45	74.00	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

EUT	AC1200 Whole Home Mesh Wi-Fi System	Date of Test	2021-12-10
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	23.0°C/39.7%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11n-HT40 at Channel 2452MHz	Test Voltage	120V/60Hz

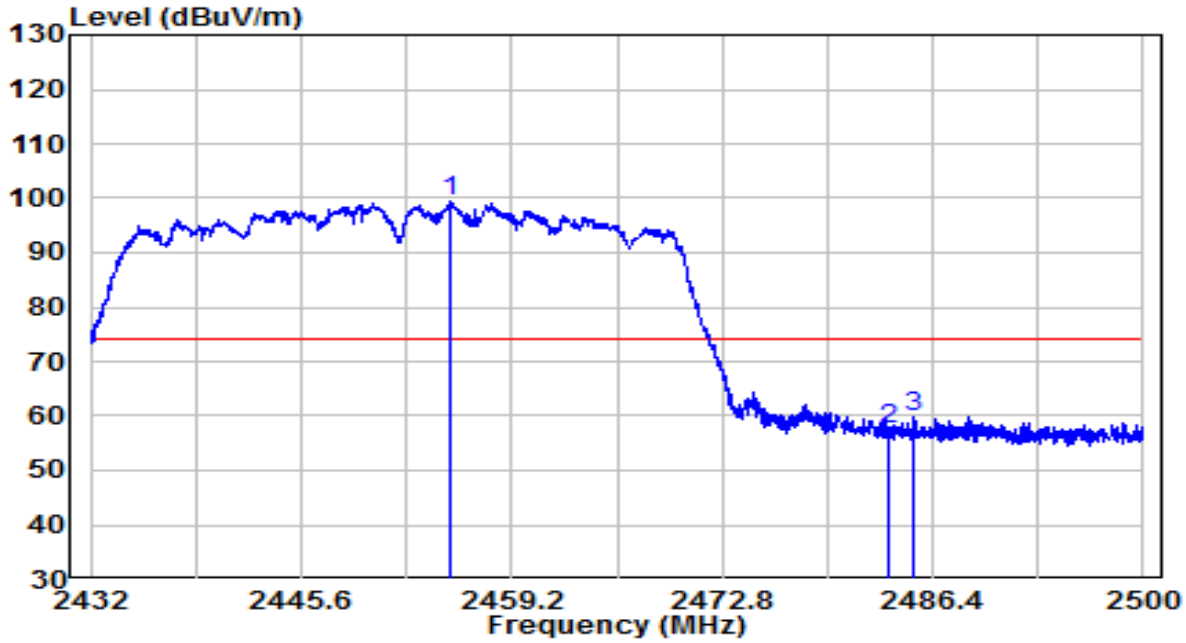


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	2454.168	63.85	32.49	96.33	N/A	N/A	Average
2		2483.500	17.07	32.61	49.69	-4.31	54.00	Average
3		2485.482	16.72	32.62	49.34	-4.66	54.00	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

EUT	AC1200 Whole Home Mesh Wi-Fi System	Date of Test	2021-12-10
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	23.0°C/39.7%
Polarity	Horizontal	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11n-HT40 at Channel 2452MHz	Test Voltage	120V/60Hz

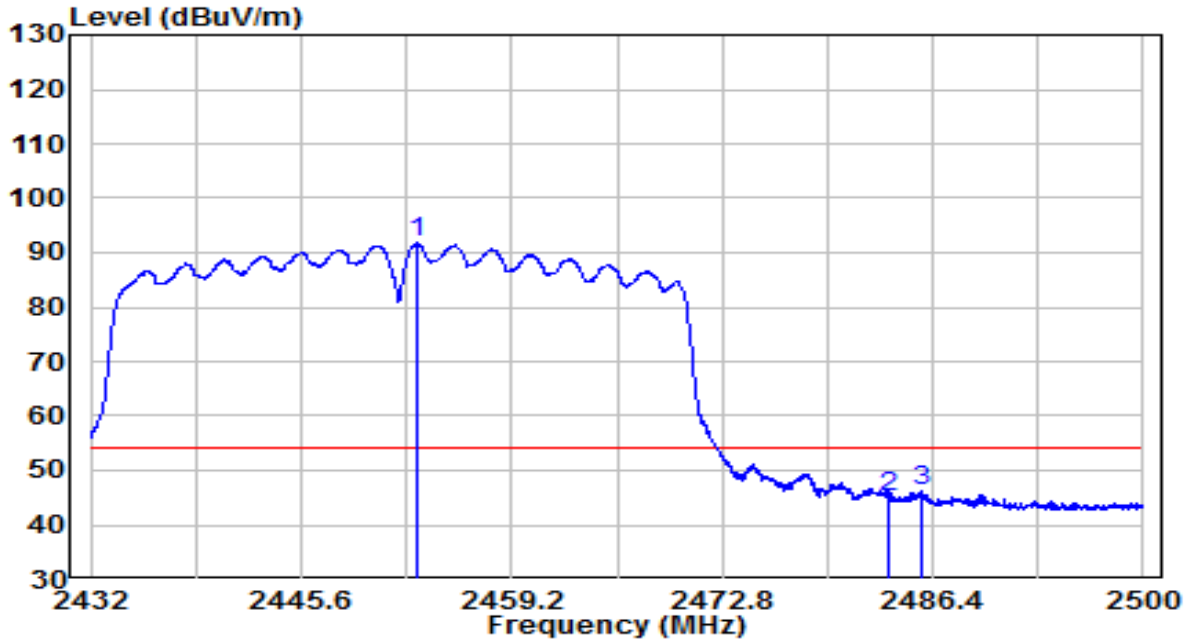


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	2455.154	66.86	32.49	99.35	N/A	N/A	Peak
2		2483.510	24.86	32.61	57.47	-16.53	74.00	Peak
3		2485.142	27.31	32.62	59.93	-14.07	74.00	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

EUT	AC1200 Whole Home Mesh Wi-Fi System	Date of Test	2021-12-10
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	23.0°C/39.7%
Polarity	Horizontal	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11n-HT40 at Channel 2452MHz	Test Voltage	120V/60Hz



No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	2453.080	59.26	32.48	91.74	N/A	N/A	Average
2		2483.500	12.33	32.61	44.94	-9.06	54.00	Average
3		2485.754	13.49	32.62	46.11	-7.89	54.00	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

7.8. AC Conducted Emissions Measurement

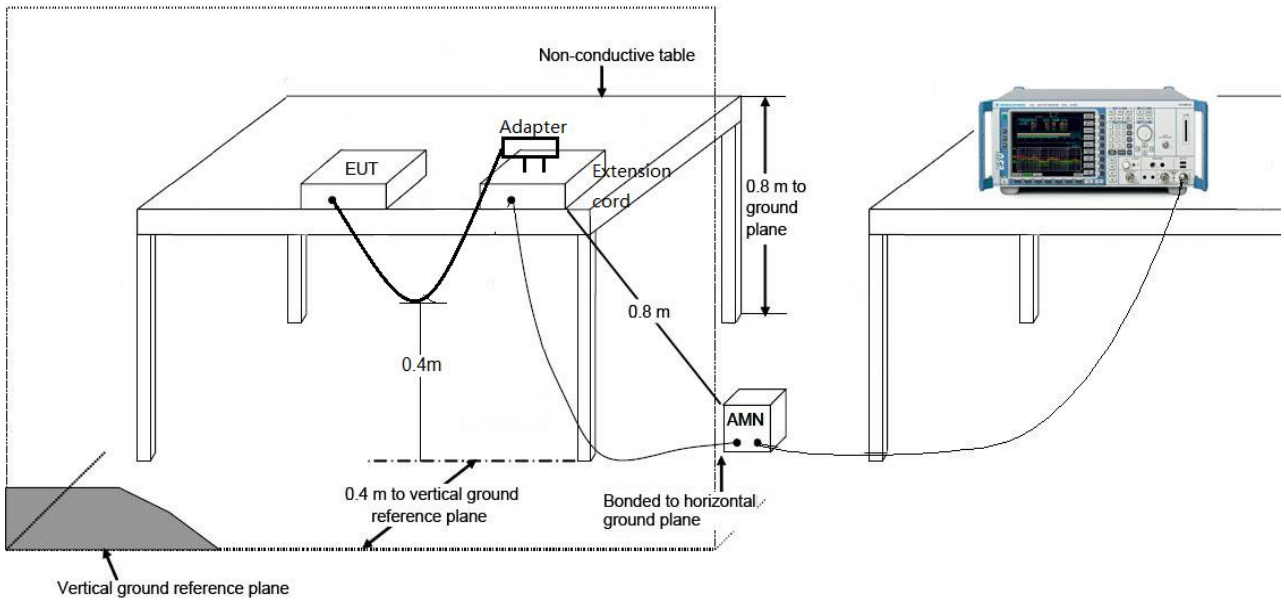
7.8.1.Test Limit

FCC Part 15 Subpart C Paragraph 15.207 Limits		
Frequency (MHz)	QP (dBμV)	AV (dBμV)
0.15 - 0.50	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30	60	50

Note 1: The lower limit shall apply at the transition frequencies.

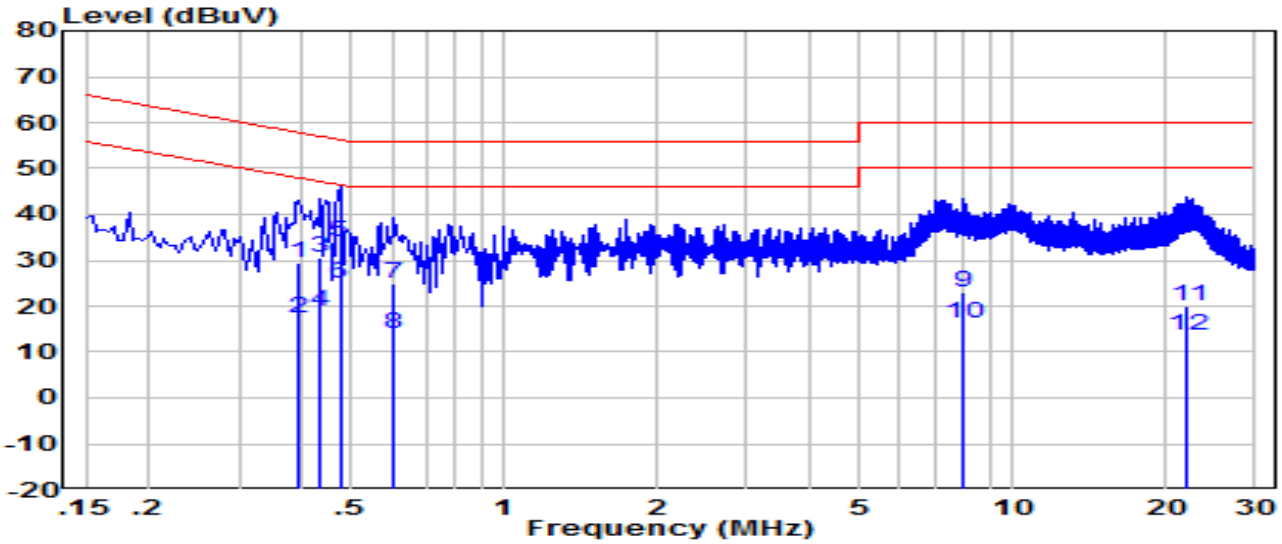
Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

7.8.2.Test Setup



7.8.3.Test Result

EUT	AC1200 Whole Home Mesh Wi-Fi System	Date of Test	2021-12-28
Factor	CE_ENV216-L1	Temp. / Humidity	18°C /48%
Polarity	Line1	Site / Test Engineer	SR2 / Eric Lin
Test Mode	Transmit by 802.11b at channel 2437MHz	Test Voltage	120V/60Hz

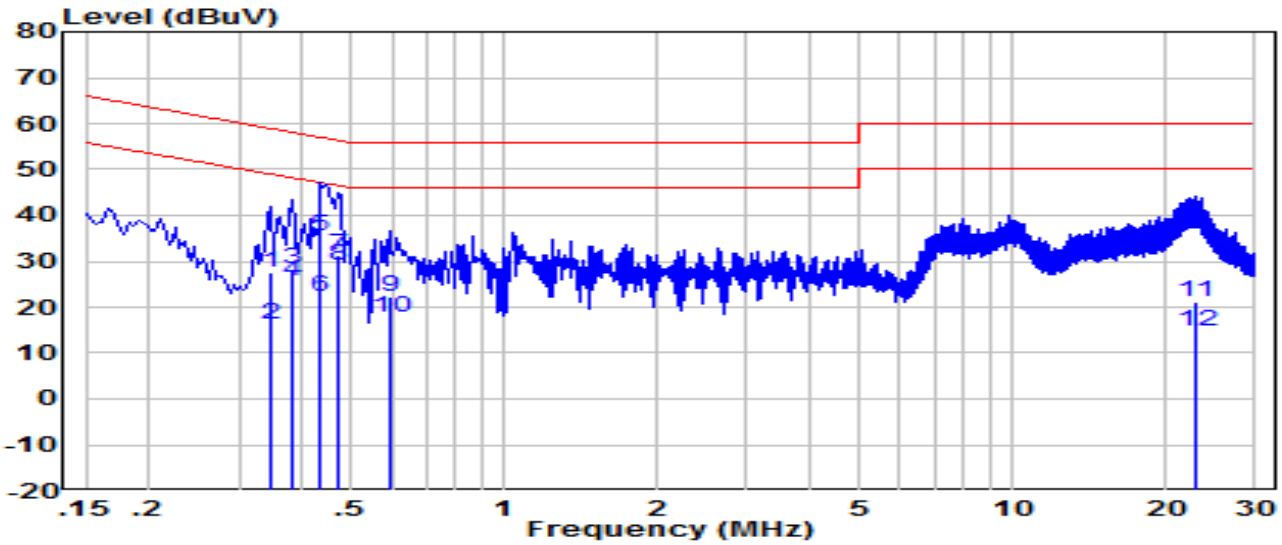


No		Frequency (MHz)	Reading (dBµV)	C.F (dB)	Measurement (dBµV)	Margin (dB)	Limit (dBµV)	Remark (QP/PK/AV)
1		0.394	19.78	9.62	29.40	-28.58	57.98	QP
2		0.394	7.58	9.62	17.20	-30.78	47.98	Average
3		0.434	21.07	9.63	30.70	-26.48	57.18	QP
4		0.434	9.07	9.63	18.70	-28.48	47.18	Average
5		0.474	24.47	9.63	34.10	-22.34	56.44	QP
6	*	0.474	15.27	9.63	24.90	-21.54	46.44	Average
7		0.606	15.16	9.64	24.80	-31.20	56.00	QP
8		0.606	4.26	9.64	13.90	-32.10	46.00	Average
9		8.010	13.08	9.82	22.90	-37.10	60.00	QP
10		8.010	6.58	9.82	16.40	-33.60	50.00	Average
11		22.080	9.91	9.99	19.90	-40.10	60.00	QP
12		22.080	3.71	9.99	13.70	-36.30	50.00	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = LISN Factor (dB)+ Cable Loss (dB).
3. Measurement(dBµV) = Reading(dBµV) + C.F (Correction Factor).

EUT	AC1200 Whole Home Mesh Wi-Fi System	Date of Test	2021-12-28
Factor	CE_ENV216-N	Temp. / Humidity	18°C /48%
Polarity	Neutral	Site / Test Engineer	SR2 / Eric Lin
Test Mode	Transmit by 802.11b at channel 2437MHz	Test Voltage	120V/60Hz



No		Frequency (MHz)	Reading (dBµV)	C.F (dB)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Remark (QP/PK/AV)
1		0.346	17.88	9.62	27.50	-31.56	59.06	QP
2		0.346	6.68	9.62	16.30	-32.76	49.06	Average
3		0.382	18.68	9.62	28.30	-29.94	58.24	QP
4		0.382	16.08	9.62	25.70	-22.54	48.24	Average
5		0.434	25.67	9.63	35.30	-21.88	57.18	QP
6		0.434	12.77	9.63	22.40	-24.78	47.18	Average
7		0.470	21.57	9.63	31.20	-25.31	56.51	QP
8	*	0.470	19.47	9.63	29.10	-17.41	46.51	Average
9		0.594	12.46	9.64	22.10	-33.90	56.00	QP
10		0.594	8.26	9.64	17.90	-28.10	46.00	Average
11		22.810	11.02	10.08	21.10	-38.90	60.00	QP
12		22.810	4.72	10.08	14.80	-35.20	50.00	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = LISN Factor (dB)+ Cable Loss (dB).
3. Measurement(dBµV) = Reading(dBµV) + C.F (Correction Factor).

8. CONCLUSION

The data collected relate only the item(s) tested and show that the device is compliance with Part 15C of the FCC Rules.

The End

Appendix A - Test Setup Photograph

Refer to “2111TW0006-Setup photo” file.

Appendix B - External Photograph

Refer to “2111TW0006-External photo” file.

Appendix C - Internal Photograph

Refer to “2111TW0006-Internal photo” file.