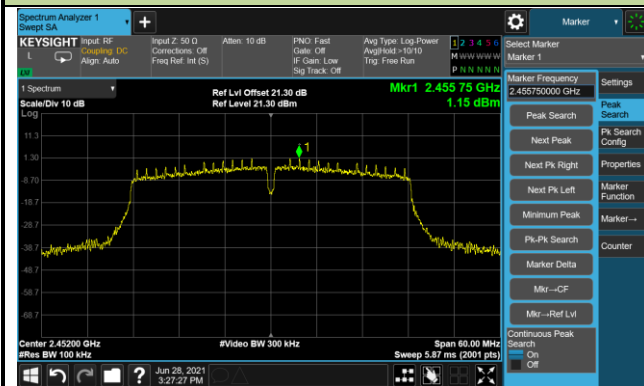


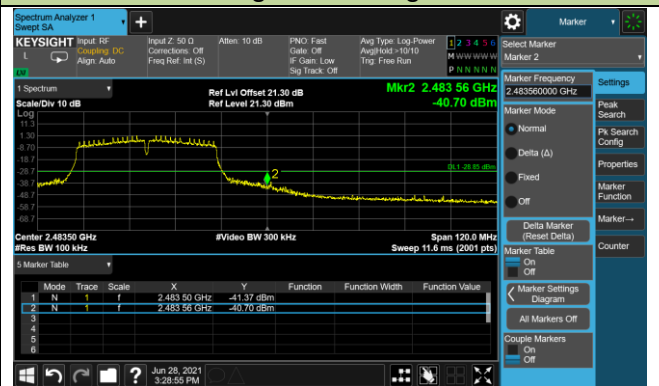
802.11n-HT40 Out-of-Band Emissions - Ant 0

Channel 09 (2452MHz)

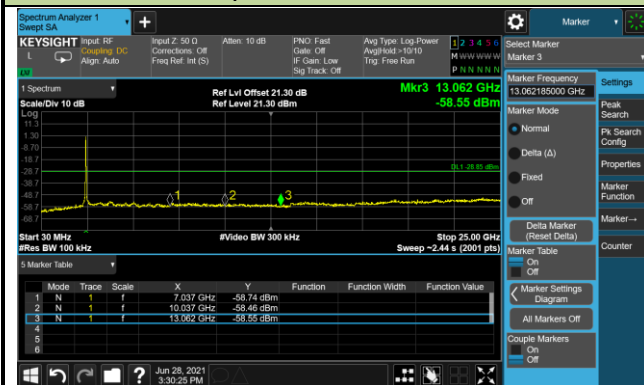
100kHz PSD Reference Level



High Band Edge



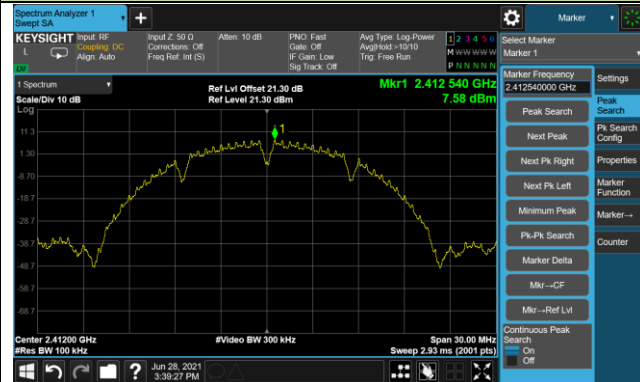
Spurious Emission



802.11b Out-of-Band Emissions - Ant 1

Channel 01 (2412MHz)

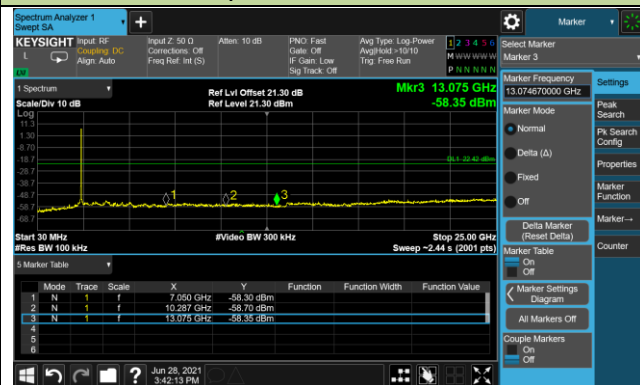
100kHz PSD Reference Level



Low Band Edge

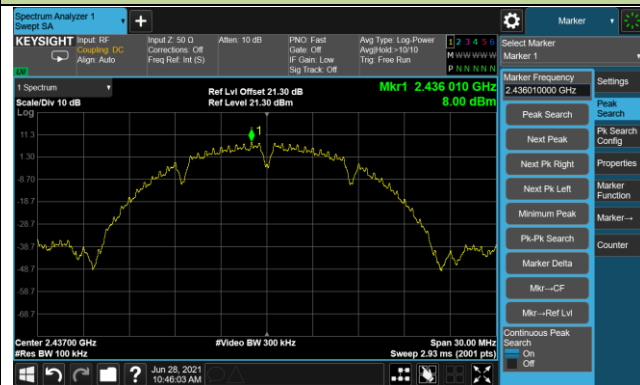


Spurious Emission



Channel 06 (2437MHz)

100kHz PSD Reference Level



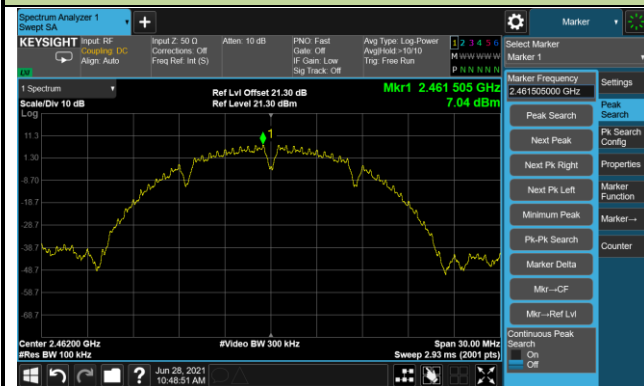
Spurious Emission



802.11b Out-of-Band Emissions - Ant 1

Channel 11 (2462MHz)

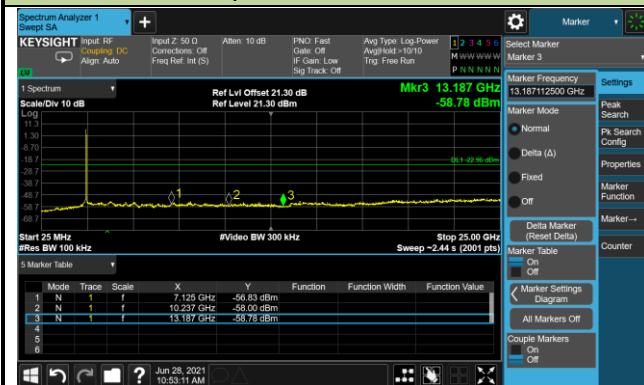
100kHz PSD Reference Level



High Band Edge



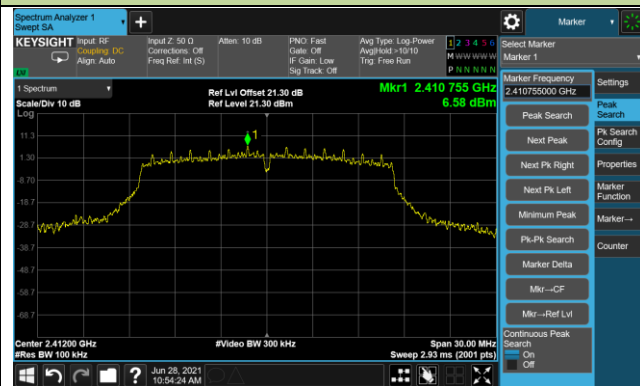
Spurious Emission



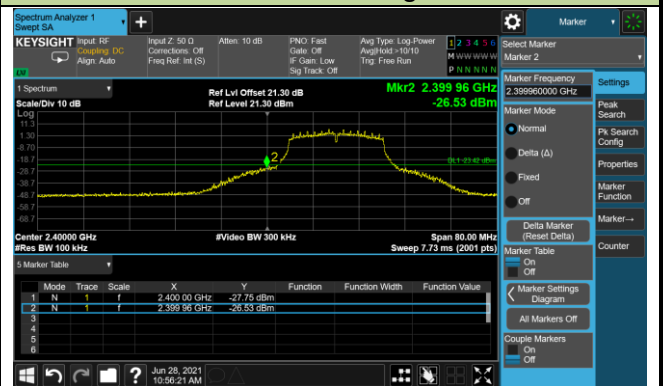
802.11g Out-of-Band Emissions - Ant 1

Channel 01 (2412MHz)

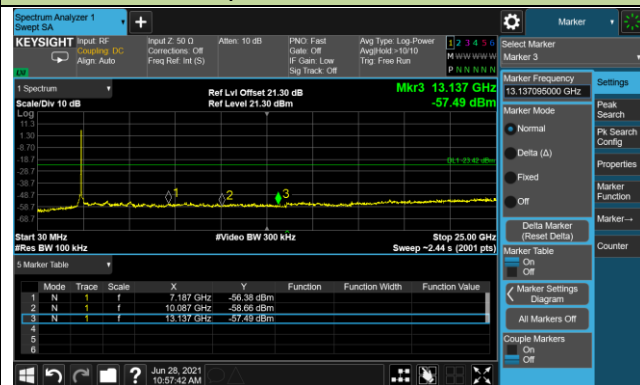
100kHz PSD Reference Level



Low Band Edge

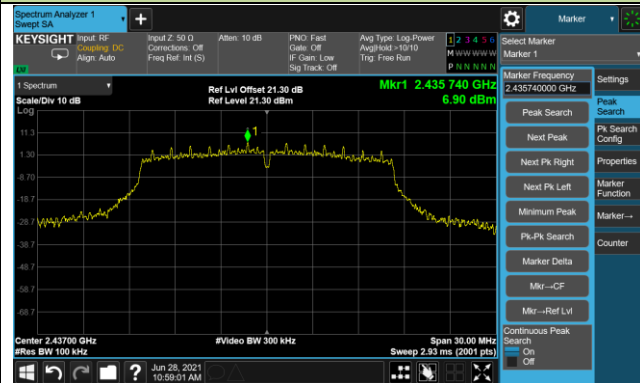


Spurious Emission



Channel 06 (2437MHz)

100kHz PSD Reference Level



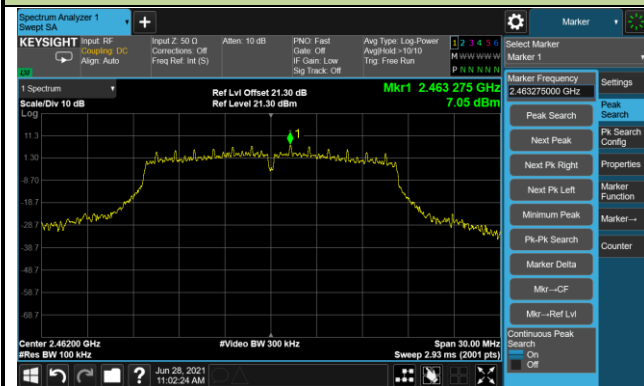
Spurious Emission



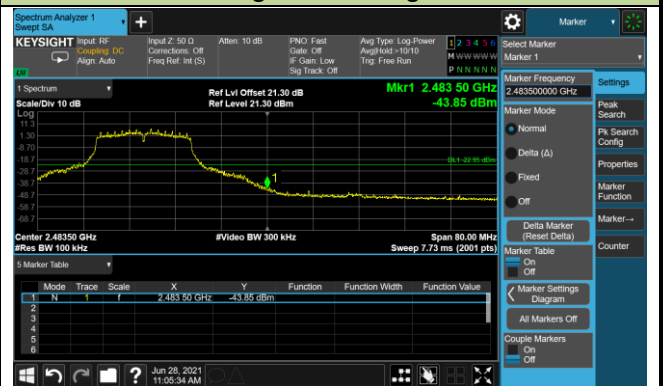
802.11g Out-of-Band Emissions - Ant 1

Channel 11 (2462MHz)

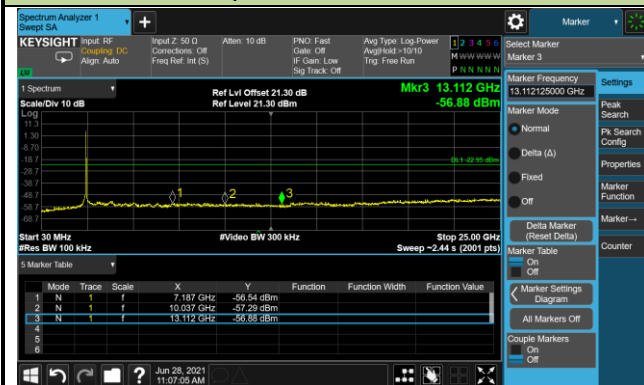
100kHz PSD Reference Level



High Band Edge



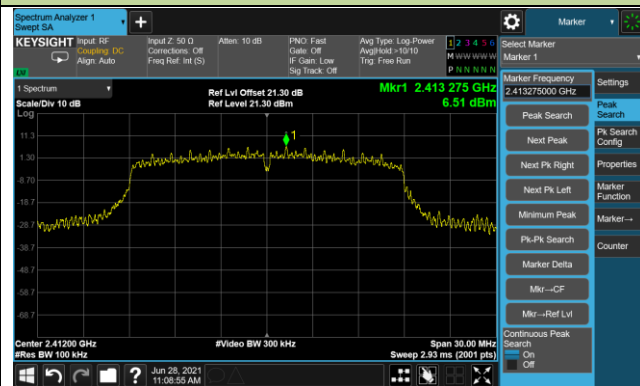
Spurious Emission



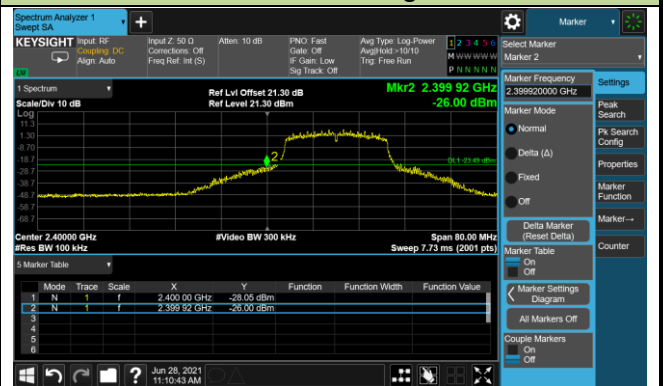
802.11n-HT20 Out-of-Band Emissions - Ant 1

Channel 01 (2412MHz)

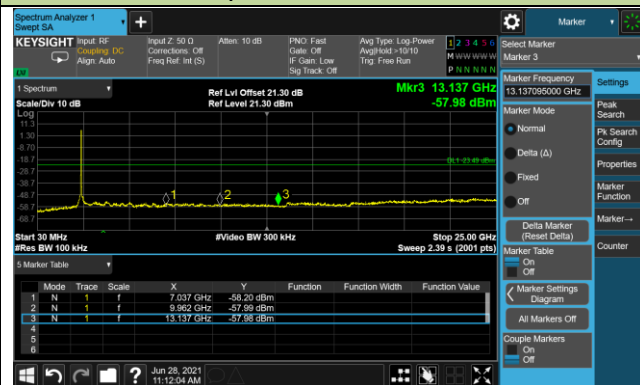
100kHz PSD Reference Level



Low Band Edge

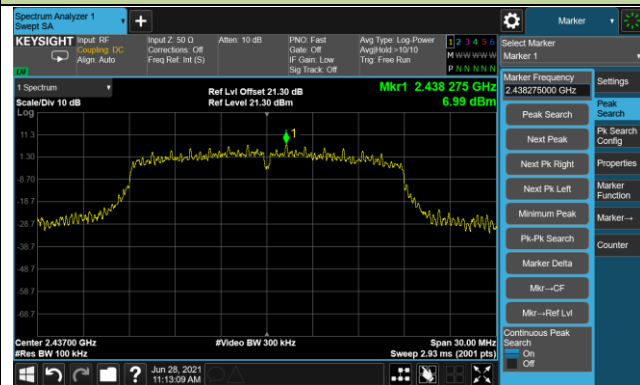


Spurious Emission



Channel 06 (2437MHz)

100kHz PSD Reference Level



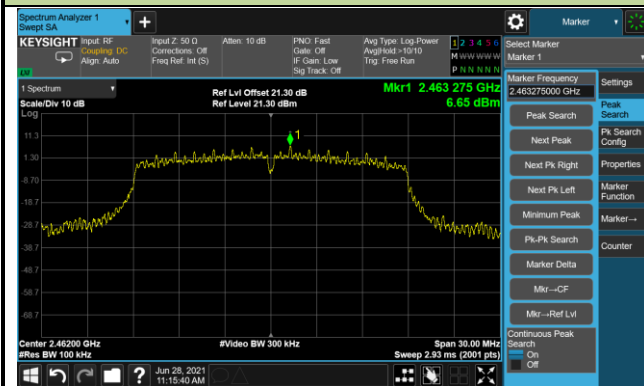
Spurious Emission



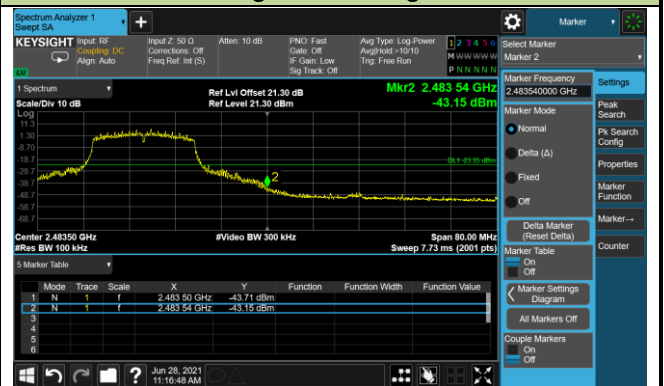
802.11n-HT20 Out-of-Band Emissions - Ant 1

Channel 11 (2462MHz)

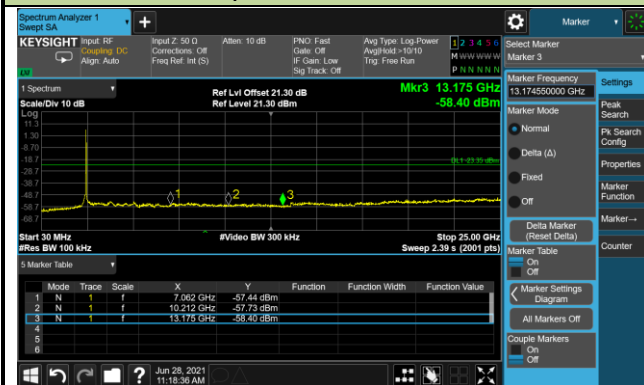
100kHz PSD Reference Level



High Band Edge



Spurious Emission



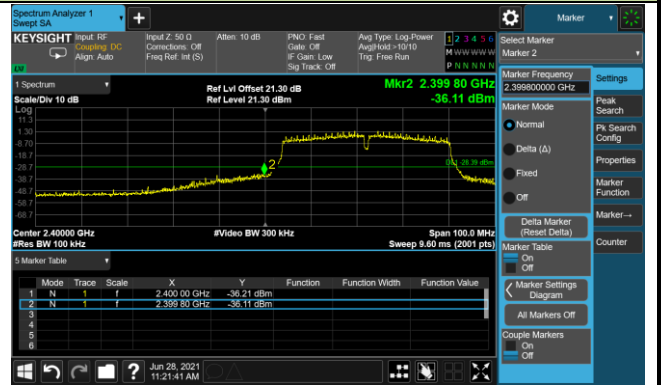
802.11n-HT40 Out-of-Band Emissions - Ant 1

Channel 03 (2422MHz)

100kHz PSD Reference Level



Low Band Edge



Spurious Emission



Channel 06 (2437MHz)

100kHz PSD Reference Level



Spurious Emission



802.11n-HT40 Out-of-Band Emissions - Ant 1

Channel 09 (2452MHz)

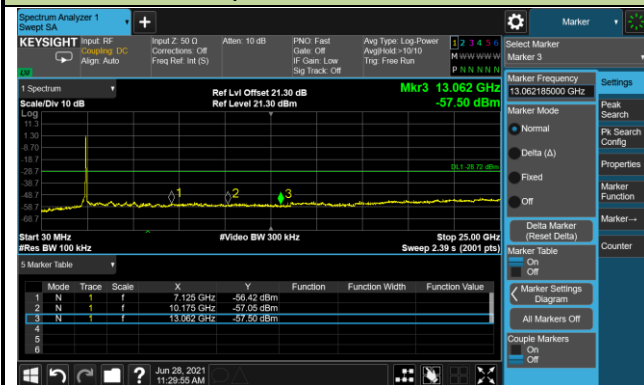
100kHz PSD Reference Level



High Band Edge



Spurious Emission



5.6. Radiated Spurious Emission Measurement

5.6.1. Test Limit

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

FCC Part 15 Subpart C Paragraph 15.209		
Frequency [MHz]	Field Strength [uV/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

5.6.2. Test Procedure

ANSI C63.10 - 2013 - Section 11.11 & 11.12

ANSI C63.10 - 2013 - Section 6.3 (General Requirements)

ANSI C63.10 - 2013 - Section 6.4 (Standard test method below 30MHz)

ANSI C63.10 - 2013 - Section 6.5 (Standard test method above 30MHz to 1GHz)

ANSI C63.10 - 2013 - Section 6.6 (Standard test method above 1GHz)

5.6.3. 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

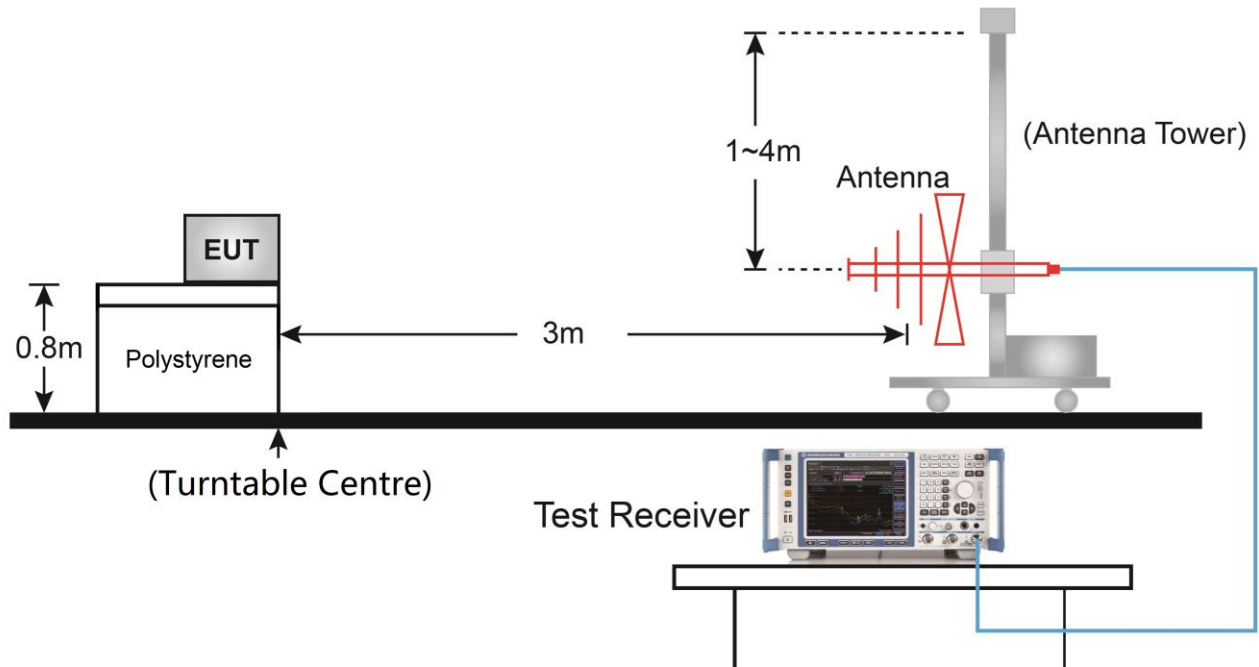
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

Average Measurements above 1GHz (Method VB)

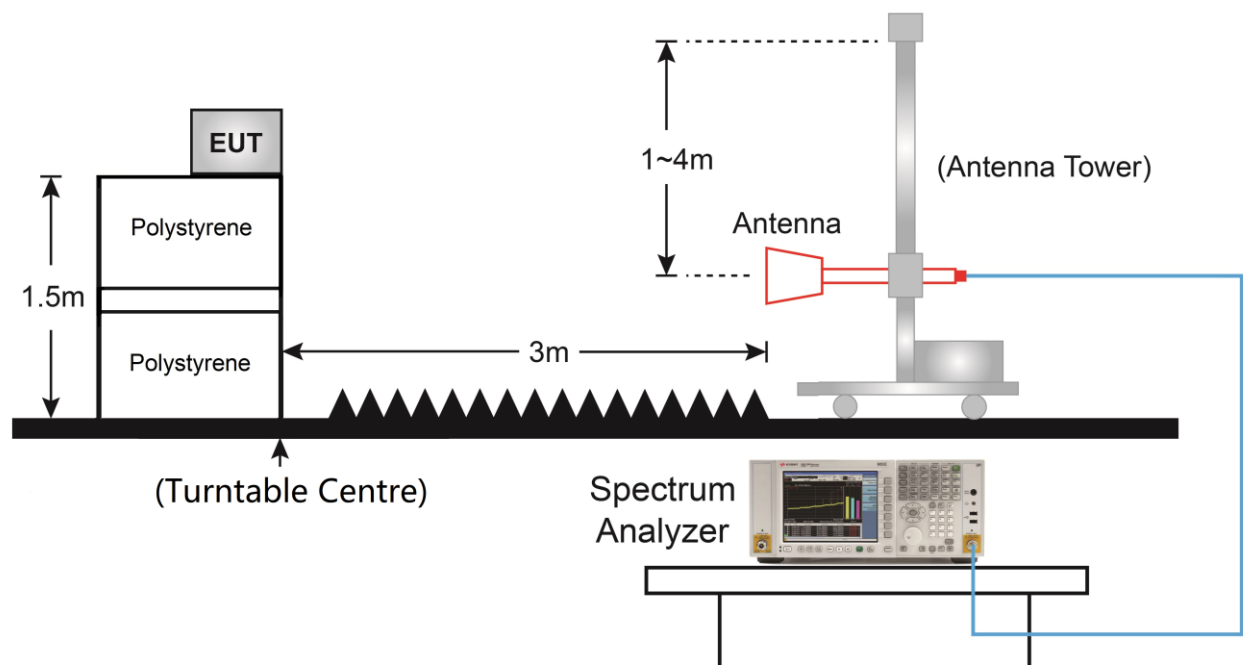
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW; If the EUT is configured to transmit with duty cycle $\geq 98\%$, set VBW = 10 Hz.
If the EUT duty cycle is $< 98\%$, set VBW $\geq 1/T$. T is the minimum transmission duration.
4. Detector = Peak
5. Sweep time = auto
6. Trace mode = max hold
7. Trace was allowed to stabilize

5.6.4. Test Setup

Below 1GHz Test Setup:



Above 1GHz Test Setup:



5.6.5. Test Result

Test Site	SIP-AC3	Test Engineer	Allen Zou
Test Mode:	802.11b	Test Date	2021/06/21
Test Channel:	01		
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
4825.0	53.9	-8.8	45.1	74.0	-28.9	Peak	Horizontal
8276.0	51.4	-4.1	47.3	74.0	-26.7	Peak	Horizontal
11914.0	50.2	-2.4	47.8	74.0	-26.2	Peak	Horizontal
4825.0	53.6	-8.8	44.8	74.0	-29.2	Peak	Vertical
7698.0	50.6	-5.0	45.6	74.0	-28.4	Peak	Vertical
11897.0	50.1	-2.2	47.9	74.0	-26.1	Peak	Vertical
Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB) Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)							

Test Site	SIP-AC3	Test Engineer	Allen Zou
Test Mode	802.11b	Test Date	2021/06/21
Test Channel	06		
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
4876.0	52.4	-8.7	43.7	74.0	-30.3	Peak	Horizontal
7672.5	51.0	-5.0	46.0	74.0	-28.0	Peak	Horizontal
12220.0	49.7	-1.9	47.8	74.0	-26.2	Peak	Horizontal
4332.0	52.4	-8.7	43.7	74.0	-30.3	Peak	Vertical
7621.5	50.8	-5.1	45.7	74.0	-28.3	Peak	Vertical
12075.5	49.6	-2.3	47.3	74.0	-26.7	Peak	Vertical
Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB) Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)							

Test Site	SIP-AC3	Test Engineer	Allen Zou
Test Mode	802.11b	Test Date	2021/06/21
Test Channel	11		
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
4332.0	52.4	-8.7	43.7	74.0	-30.3	Peak	Horizontal
8165.5	51.0	-4.3	46.7	74.0	-27.3	Peak	Horizontal
11591.0	50.3	-2.7	47.6	74.0	-26.4	Peak	Horizontal
5029.0	52.4	-8.7	43.7	74.0	-30.3	Peak	Vertical
7715.0	51.5	-5.0	46.5	74.0	-27.5	Peak	Vertical
11710.0	50.3	-2.6	47.7	74.0	-26.3	Peak	Vertical
Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB) Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)							

Test Site	SIP-AC3	Test Engineer	Allen Zou
Test Mode	802.11g	Test Date	2021/06/21
Test Channel	01		
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
4774.0	52.4	-8.9	43.5	74.0	-30.5	Peak	Horizontal
8344.0	50.2	-4.1	46.1	74.0	-27.9	Peak	Horizontal
11812.0	50.9	-2.6	48.3	74.0	-25.7	Peak	Horizontal
5012.0	51.9	-8.6	43.3	74.0	-30.7	Peak	Vertical
8123.0	51.5	-4.4	47.1	74.0	-26.9	Peak	Vertical
12016.0	49.6	-2.2	47.4	74.0	-26.6	Peak	Vertical
Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB) Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)							

Test Site	SIP-AC3	Test Engineer	Allen Zou
Test Mode	802.11g	Test Date	2021/06/21
Test Channel	06		
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
4867.5	53.6	-8.8	44.8	74.0	-29.2	Peak	Horizontal
8114.5	51.4	-4.5	46.9	74.0	-27.1	Peak	Horizontal
11744.0	50.4	-3.0	47.4	74.0	-26.6	Peak	Horizontal
4876.0	54.1	-8.7	45.4	74.0	-28.6	Peak	Vertical
8352.5	50.3	-4.1	46.2	74.0	-27.8	Peak	Vertical
11973.5	50.5	-2.5	48.0	74.0	-26.0	Peak	Vertical
Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB) Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)							

Test Site	SIP-AC3	Test Engineer	Allen Zou
Test Mode	802.11g	Test Date	2021/06/21
Test Channel	11		
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
4918.5	53.8	-8.6	45.2	74.0	-28.8	Peak	Horizontal
8335.5	49.7	-4.1	45.6	74.0	-28.4	Peak	Horizontal
11820.5	50.3	-2.7	47.6	74.0	-26.4	Peak	Horizontal
4927.0	52.5	-8.6	43.9	74.0	-30.1	Peak	Vertical
8293.0	50.4	-4.1	46.3	74.0	-27.7	Peak	Vertical
11888.5	50.6	-2.4	48.2	74.0	-25.8	Peak	Vertical
Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB) Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)							

Test Site	SIP-AC3	Test Engineer	Allen Zou
Test Mode	802.11n-HT20	Test Date	2021/06/21
Test Channel	01		
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
4825.0	51.2	-8.8	42.4	74.0	-31.6	Peak	Horizontal
8327.0	50.3	-4.0	46.3	74.0	-27.7	Peak	Horizontal
12254.0	49.8	-2.1	47.7	74.0	-26.3	Peak	Horizontal
4281.0	51.6	-8.6	43.0	74.0	-31.0	Peak	Vertical
8335.5	50.4	-4.1	46.3	74.0	-27.7	Peak	Vertical
12313.5	49.8	-1.7	48.1	74.0	-25.9	Peak	Vertical
Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB) Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)							

Test Site	SIP-AC3	Test Engineer	Allen Zou
Test Mode	802.11n-HT20	Test Date	2021/06/21
Test Channel	06		
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
4867.5	53.1	-8.8	44.3	74.0	-29.7	Peak	Horizontal
8378.0	50.3	-4.0	46.3	74.0	-27.7	Peak	Horizontal
11812.0	50.2	-2.6	47.6	74.0	-26.4	Peak	Horizontal
5114.0	51.5	-8.6	42.9	74.0	-31.1	Peak	Vertical
7672.5	50.9	-5.0	45.9	74.0	-28.1	Peak	Vertical
11897.0	49.8	-2.2	47.6	74.0	-26.4	Peak	Vertical
Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB) Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)							

Test Site	SIP-AC3	Test Engineer	Allen Zou
Test Mode	802.11n-HT20	Test Date	2021/06/21
Test Channel	11		
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
4867.5	52.4	-8.8	43.6	74.0	-30.4	Peak	Horizontal
7587.5	50.7	-5.3	45.4	74.0	-28.6	Peak	Horizontal
12109.5	49.9	-2.1	47.8	74.0	-26.2	Peak	Horizontal
4876.0	51.1	-8.7	42.4	74.0	-31.6	Peak	Vertical
8412.0	51.0	-4.2	46.8	74.0	-27.2	Peak	Vertical
12101.0	50.1	-2.0	48.1	74.0	-25.9	Peak	Vertical
Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB) Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)							

Test Site	SIP-AC3	Test Engineer	Allen Zou
Test Mode	802.11n-HT40	Test Date	2021/06/21
Test Channel	03		
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
4935.5	51.6	-8.6	43.0	74.0	-31.0	Peak	Horizontal
8344.0	50.4	-4.1	46.3	74.0	-27.7	Peak	Horizontal
12313.5	50.7	-1.7	49.0	74.0	-25.0	Peak	Horizontal
4893.0	51.6	-8.6	43.0	74.0	-31.0	Peak	Vertical
8267.5	50.8	-4.1	46.7	74.0	-27.3	Peak	Vertical
11676.0	50.4	-2.8	47.6	74.0	-26.4	Peak	Vertical
Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB) Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)							

Test Site	SIP-AC3	Test Engineer	Allen Zou
Test Mode	802.11n-HT40	Test Date	2021/06/21
Test Channel	06		
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

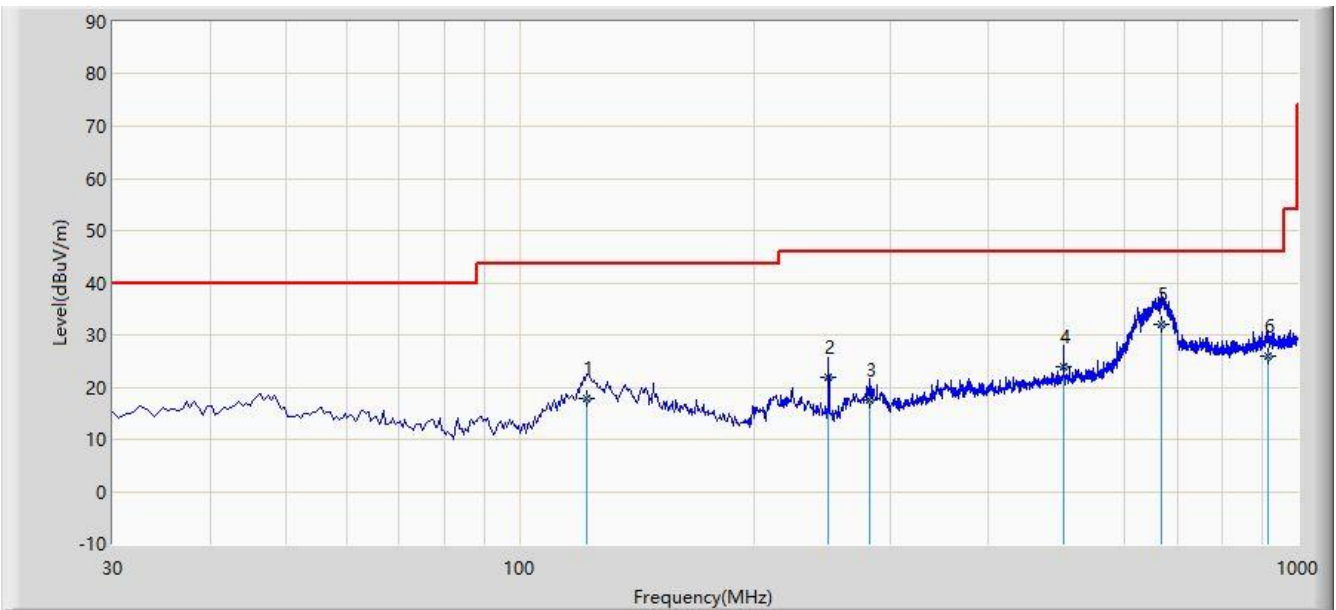
Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
4944.0	51.3	-8.6	42.7	74.0	-31.3	Peak	Horizontal
8250.5	50.8	-4.2	46.6	74.0	-27.4	Peak	Horizontal
11837.5	51.3	-2.9	48.4	74.0	-25.6	Peak	Horizontal
4383.0	52.5	-8.9	43.6	74.0	-30.4	Peak	Vertical
8361.0	50.6	-4.0	46.6	74.0	-27.4	Peak	Vertical
12007.5	50.0	-2.1	47.9	74.0	-26.1	Peak	Vertical
Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB) Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)							

Test Site	SIP-AC3	Test Engineer	Allen Zou
Test Mode	802.11n-HT40	Test Date	2021/06/21
Test Channel	09		
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
4230.0	51.9	-8.9	43.0	74.0	-31.0	Peak	Horizontal
8276.0	50.6	-4.1	46.5	74.0	-27.5	Peak	Horizontal
11982.0	49.9	-2.3	47.6	74.0	-26.4	Peak	Horizontal
4859.0	51.9	-8.8	43.1	74.0	-30.9	Peak	Vertical
8293.0	50.1	-4.1	46.0	74.0	-28.0	Peak	Vertical
11693.0	51.1	-2.7	48.4	74.0	-25.6	Peak	Vertical
Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB) Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)							

The Result of Radiated Emission below 1GHz:

Site: SIP-AC1	Time: 2021/06/20 - 11:47
Limit: FCC_Part15.209_RE(3m)	Engineer: Mero Zhou
Probe: SIP-AC1_VULB 9168 _30-1000MHz	Polarity: Horizontal
EUT: WiFi 6 Extender	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at Channel 2412MHz	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			122.150	17.936	2.160	-25.564	43.500	15.776	QP
2			249.705	21.861	5.330	-24.139	46.000	16.531	QP
3			281.230	17.643	-0.250	-28.357	46.000	17.893	QP
4			499.965	23.792	1.090	-22.208	46.000	22.702	QP
5		*	667.775	32.105	6.290	-13.895	46.000	25.815	QP
6			916.580	25.869	-3.200	-20.131	46.000	29.069	QP

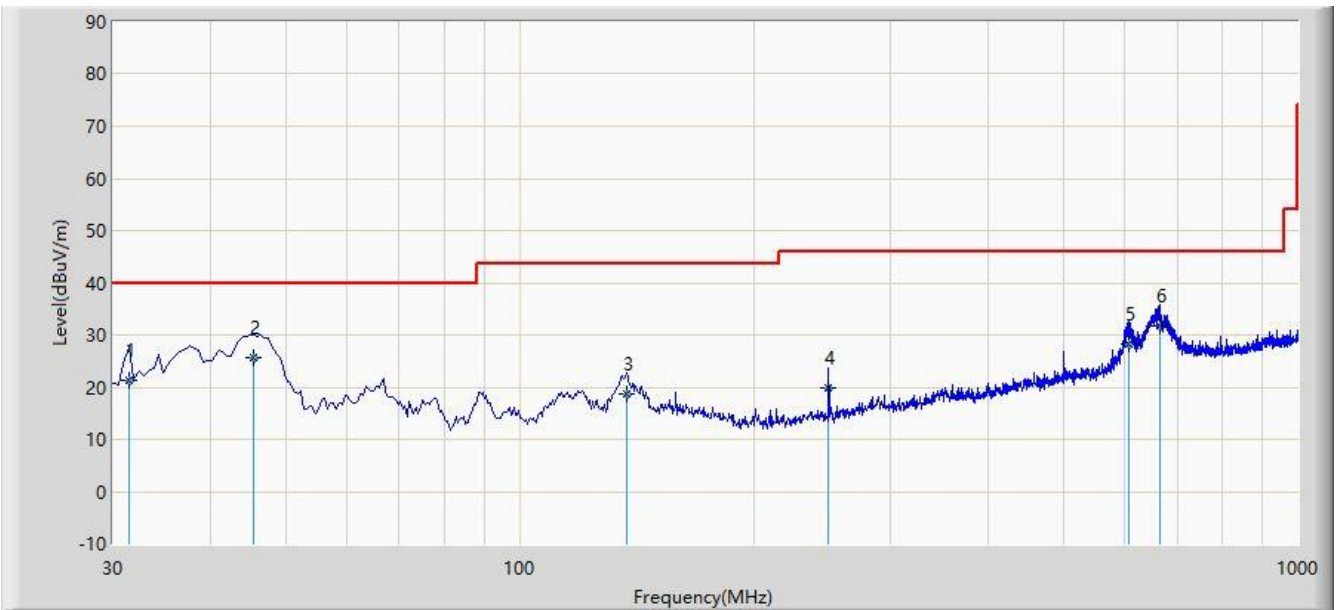
Note 1: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Note 2: The amplitude of radiated emissions (frequency range from 9kHz to 30MHz and 18GHz to 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.

Site: SIP-AC1	Time: 2021/06/20 - 11:50
Limit: FCC_Part15.209_RE(3m)	Engineer: Mero Zhou
Probe: SIP-AC1_VULB 9168 _30-1000MHz	Polarity: Vertical
EUT: WiFi 6 Extender	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at Channel 2412MHz	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			31.455	21.307	4.600	-18.693	40.000	16.707	QP
2			45.520	25.773	7.960	-14.227	40.000	17.813	QP
3			137.185	18.607	1.430	-24.893	43.500	17.177	QP
4			249.705	19.741	3.210	-26.259	46.000	16.531	QP
5			606.180	28.215	3.040	-17.785	46.000	25.175	QP
6		*	665.835	31.782	5.990	-14.218	46.000	25.792	QP

Note 1: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Note 2: The amplitude of radiated emissions (frequency range from 9kHz to 30MHz and 18GHz to 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.

5.7. Radiated Restricted Band Edge Measurement

5.7.1. 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		
Frequency [MHz]	Field Strength [uV/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

5.7.2. Test Procedure Used

ANSI C63.10-2013 Section 6.3

ANSI C63.10-2013 Section 6.6

ANSI C63.10-2013 Section 11.13

5.7.3. Test Setting

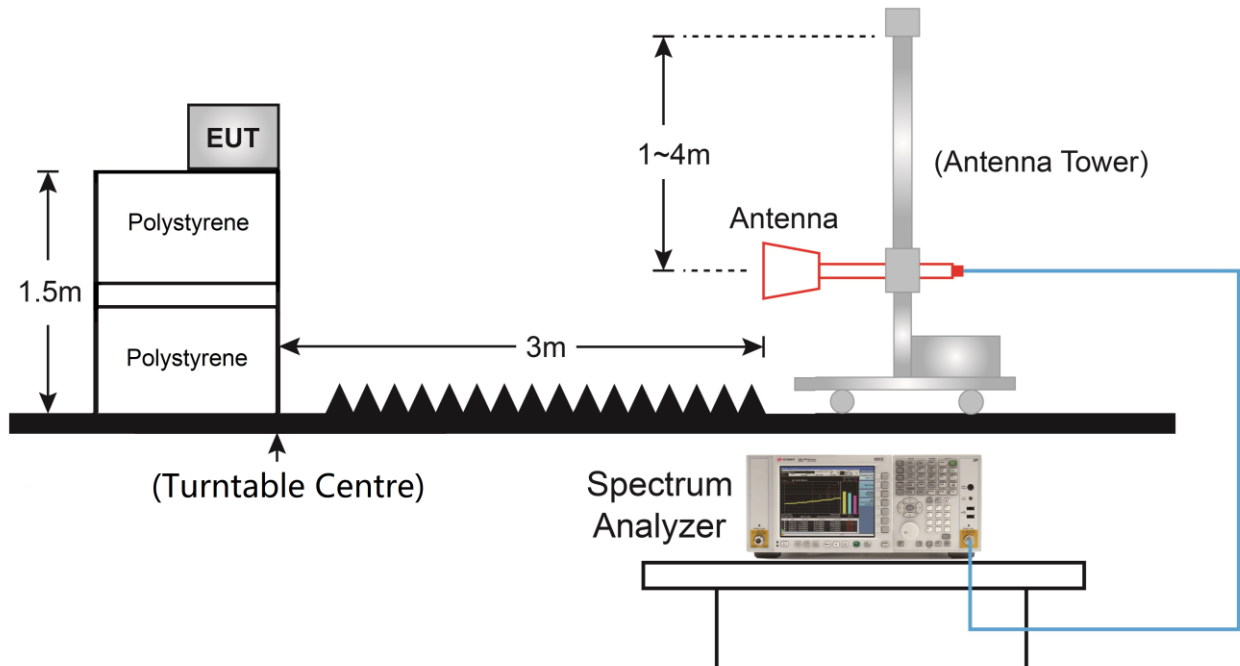
Peak Field Strength Measurements

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 Field Strength Measurements

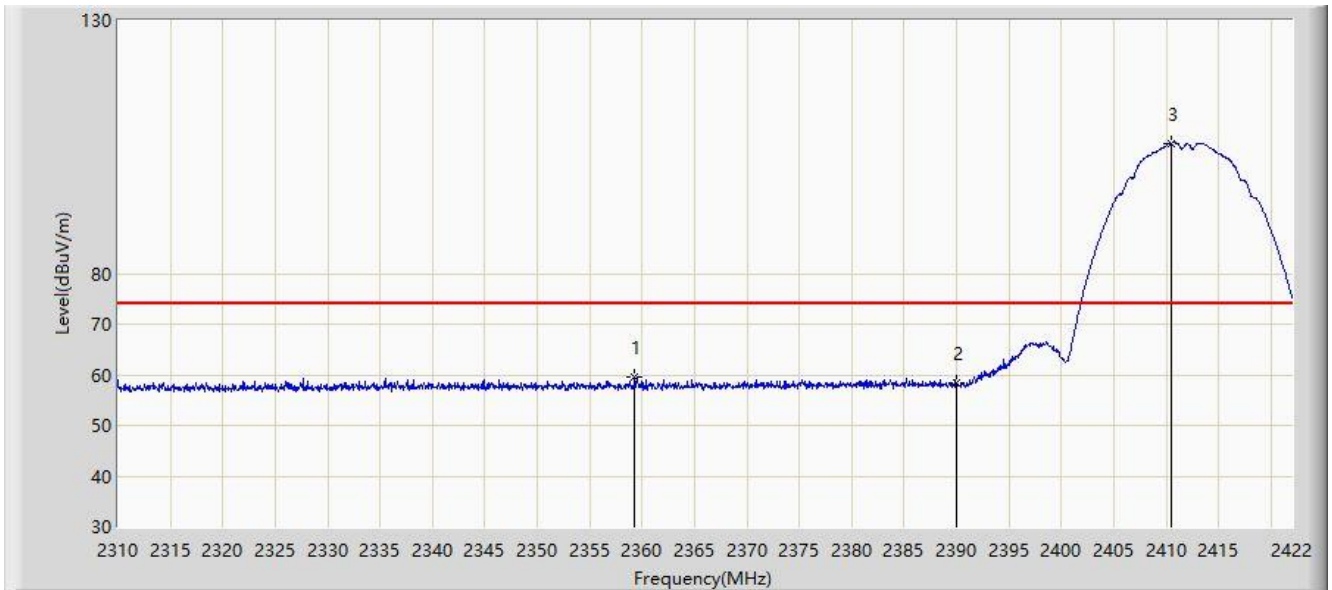
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW $\geq 1/T$
4. As an alternative, the instrument may be set to linear detector mode. Ensure that video filtering is applied in linear voltage domain (rather than in a log or dB domain). Some instruments require linear display mode in order to accomplish this. Others have a setting for Average-VBW Type, which can be set to "Voltage" regardless of the display mode
5. Detector = Peak
6. Sweep time = auto
7. Trace mode = max hold
8. Allow max hold to run for at least 50 times (1/duty cycle) traces

5.7.4. Test Setup



5.7.5.Test Result

Site: SIP-AC3	Time: 2021/06/21 - 09:37
Limit: FCC_Part15_15.209 RE(3m)	Engineer: Allen Zou
Probe: SIP-AC3_HF907_102861_1-18GHz	Polarity: Horizontal
EUT: WiFi 6 Extender	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at channel 2412MHz	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2359.280	59.666	27.507	-14.334	74.000	32.159	PK
2			2390.000	58.314	26.049	-15.686	74.000	32.265	PK
3		*	2410.464	105.734	73.364	N/A	N/A	32.371	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: SIP-AC3	Time: 2021/06/21 - 09:42
Limit: FCC_Part15_15.209 RE(3m)	Engineer: Allen Zou
Probe: SIP-AC3_HF907_102861_1-18GHz	Polarity: Horizontal
EUT: WiFi 6 Extender	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at channel 2412MHz	

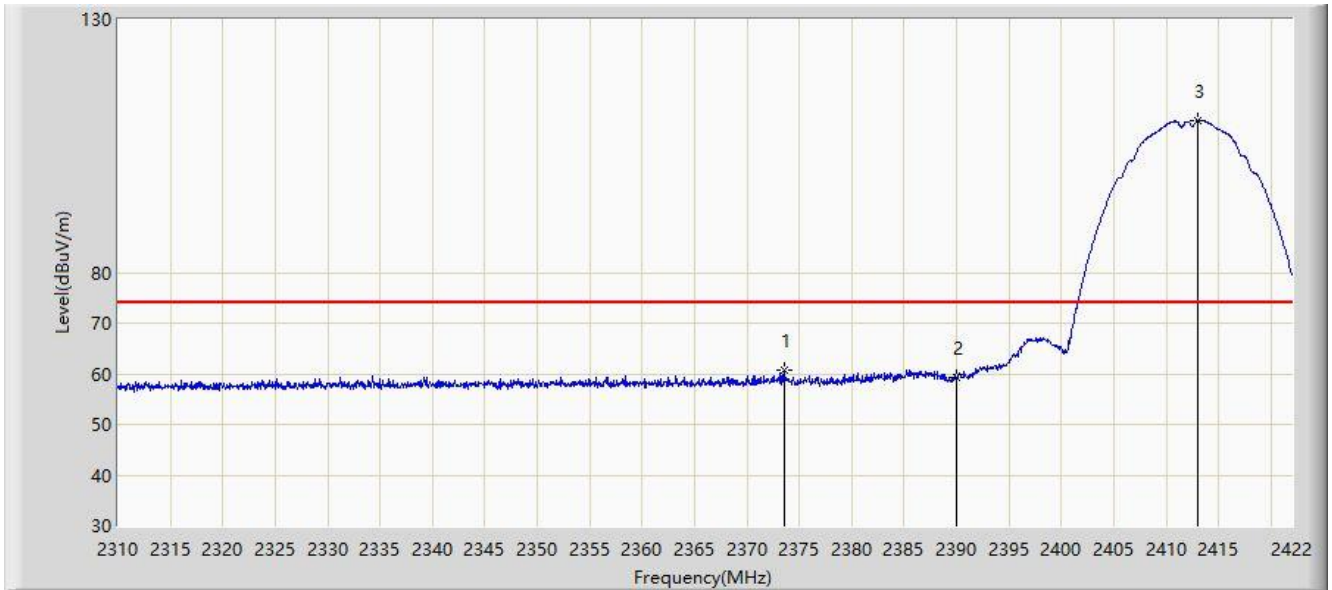


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2387.112	46.746	14.497	-7.254	54.000	32.250	AV
2			2390.000	46.494	14.229	-7.506	54.000	32.265	AV
3		*	2410.912	102.516	70.143	N/A	N/A	32.373	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: SIP-AC3	Time: 2021/06/21 - 09:44
Limit: FCC_Part15_15.209 RE(3m)	Engineer: Allen Zou
Probe: SIP-AC3_HF907_102861_1-18GHz	Polarity: Vertical
EUT: WiFi 6 Extender	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at channel 2412MHz	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2373.560	60.700	28.512	-13.300	74.000	32.188	PK
2			2390.000	59.277	27.012	-14.723	74.000	32.265	PK
3		*	2412.984	110.017	77.634	N/A	N/A	32.383	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: SIP-AC3	Time: 2021/06/21 - 09:47
Limit: FCC_Part15_15.209 RE(3m)	Engineer: Allen Zou
Probe: SIP-AC3_HF907_102861_1-18GHz	Polarity: Vertical
EUT: WiFi 6 Extender	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at channel 2412MHz	

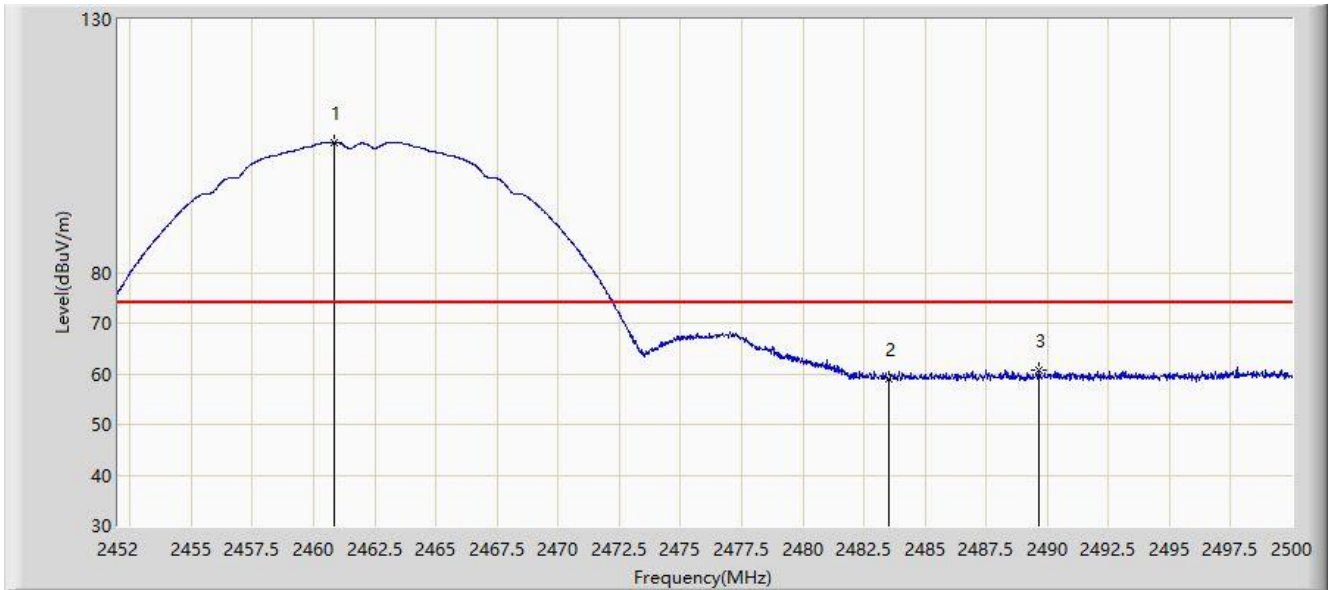


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2386.832	49.109	16.861	-4.891	54.000	32.248	AV
2			2390.000	48.223	15.958	-5.777	54.000	32.265	AV
3		*	2413.208	106.882	74.498	N/A	N/A	32.384	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: SIP-AC3	Time: 2021/06/21 - 09:49
Limit: FCC_Part15_15.209 RE(3m)	Engineer: Allen Zou
Probe: SIP-AC3_HF907_102861_1-18GHz	Polarity: Horizontal
EUT: WiFi 6 Extender	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at channel 2462MHz	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2460.856	105.727	73.097	N/A	N/A	32.630	PK
2			2483.500	58.921	26.149	-15.079	74.000	32.772	PK
3			2489.632	60.600	27.792	-13.400	74.000	32.808	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: SIP-AC3	Time: 2021/06/21 - 09:58
Limit: FCC_Part15_15.209 RE(3m)	Engineer: Allen Zou
Probe: SIP-AC3_HF907_102861_1-18GHz	Polarity: Horizontal
EUT: WiFi 6 Extender	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at channel 2462MHz	

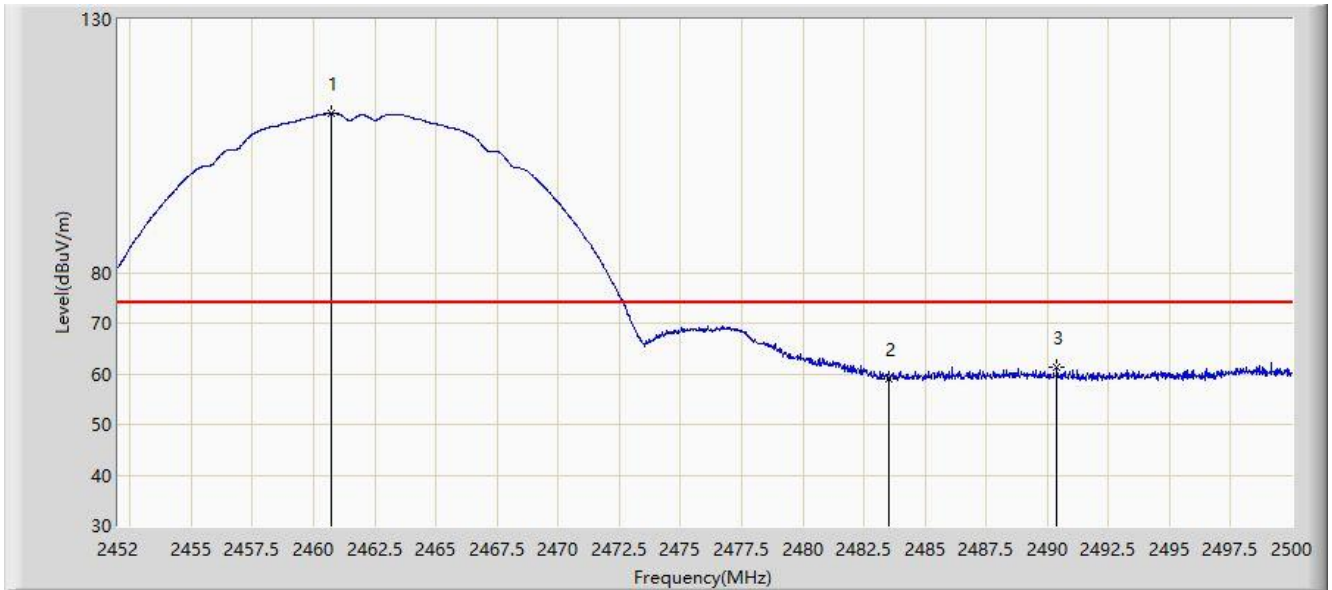


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2462.944	102.787	70.143	N/A	N/A	32.644	AV
2			2483.500	47.715	14.943	-6.285	54.000	32.772	AV
3			2498.560	48.227	15.366	-5.773	54.000	32.861	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: SIP-AC3	Time: 2021/06/21 - 09:59
Limit: FCC_Part15_15.209 RE(3m)	Engineer: Allen Zou
Probe: SIP-AC3_HF907_102861_1-18GHz	Polarity: Vertical
EUT: WiFi 6 Extender	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at channel 2462MHz	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2460.712	111.392	78.762	N/A	N/A	32.629	PK
2			2483.500	59.043	26.271	-14.957	74.000	32.772	PK
3			2490.400	61.388	28.575	-12.612	74.000	32.812	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: SIP-AC3	Time: 2021/06/21 - 10:08
Limit: FCC_Part15_15.209 RE(3m)	Engineer: Allen Zou
Probe: SIP-AC3_HF907_102861_1-18GHz	Polarity: Vertical
EUT: WiFi 6 Extender	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at channel 2462MHz	

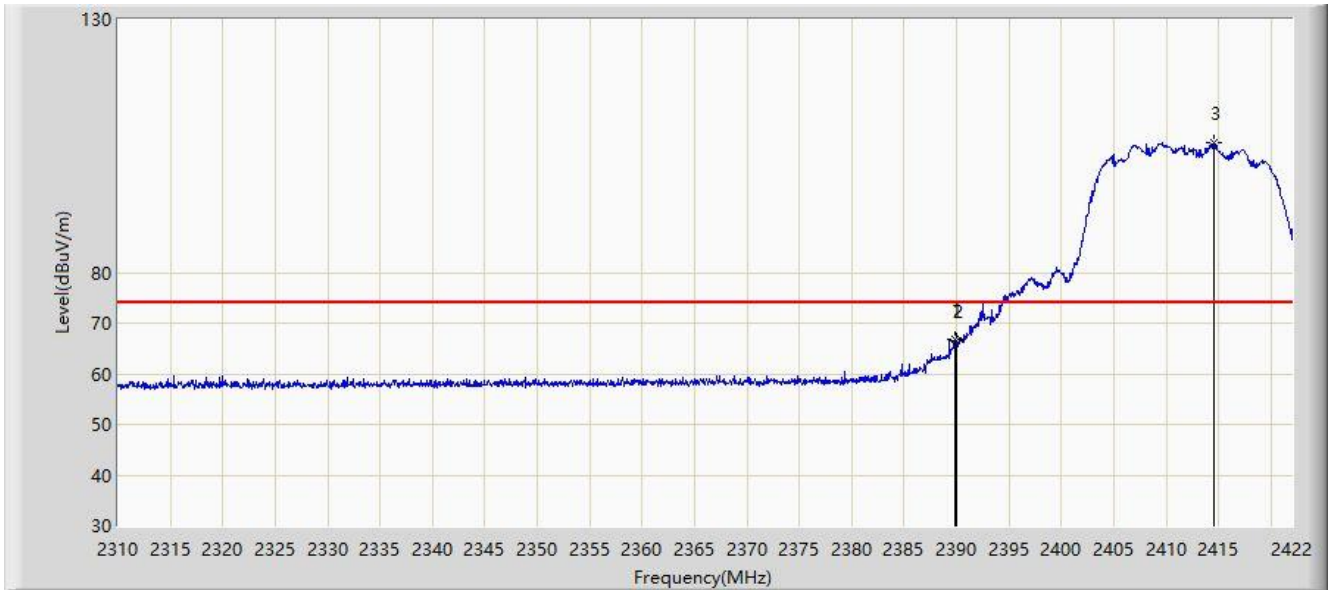


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	X	*	2460.928	108.622	75.991	N/A	N/A	32.631	AV
2			2483.500	48.003	15.231	-5.997	54.000	32.772	AV
3			2498.416	49.147	16.287	-4.853	54.000	32.861	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: SIP-AC3	Time: 2021/06/21 - 10:21
Limit: FCC_Part15_15.209 RE(3m)	Engineer: Allen Zou
Probe: SIP-AC3_HF907_102861_1-18GHz	Polarity: Horizontal
EUT: WiFi 6 Extender	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11g at channel 2412MHz	

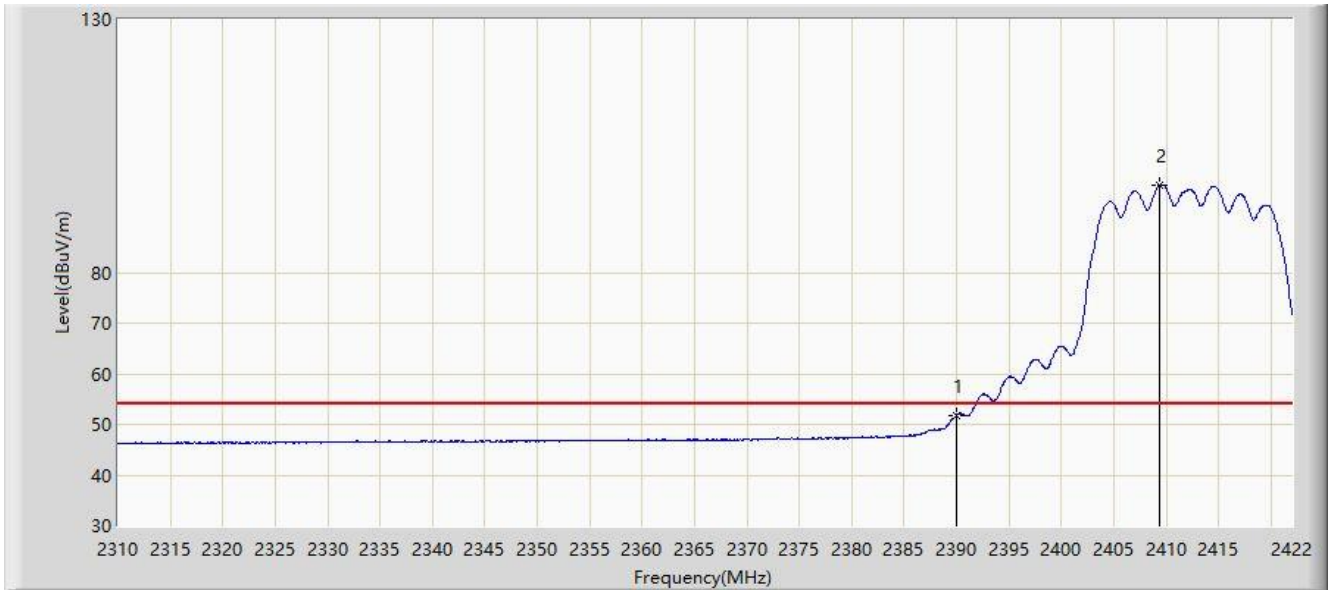


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2389.912	66.955	34.690	-7.045	74.000	32.264	PK
2			2390.000	66.634	34.369	-7.366	74.000	32.265	PK
3		*	2414.496	105.749	73.359	N/A	N/A	32.390	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: SIP-AC3	Time: 2021/06/21 - 10:27
Limit: FCC_Part15_15.209 RE(3m)	Engineer: Allen Zou
Probe: SIP-AC3_HF907_102861_1-18GHz	Polarity: Horizontal
EUT: WiFi 6 Extender	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11g at channel 2412MHz	

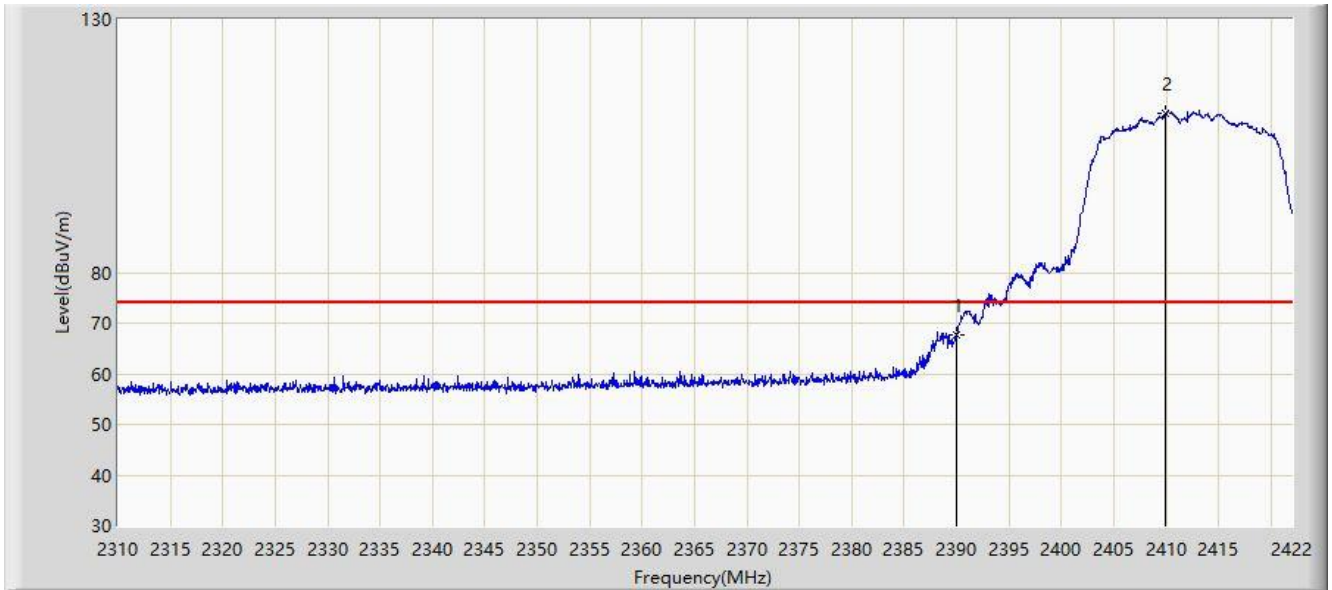


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	51.816	19.551	-2.184	54.000	32.265	AV
2		*	2409.400	97.356	64.991	N/A	N/A	32.365	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: SIP-AC3	Time: 2021/06/21 - 10:20
Limit: FCC_Part15_15.209 RE(3m)	Engineer: Allen Zou
Probe: SIP-AC3_HF907_102861_1-18GHz	Polarity: Vertical
EUT: WiFi 6 Extender	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11g at channel 2412MHz	

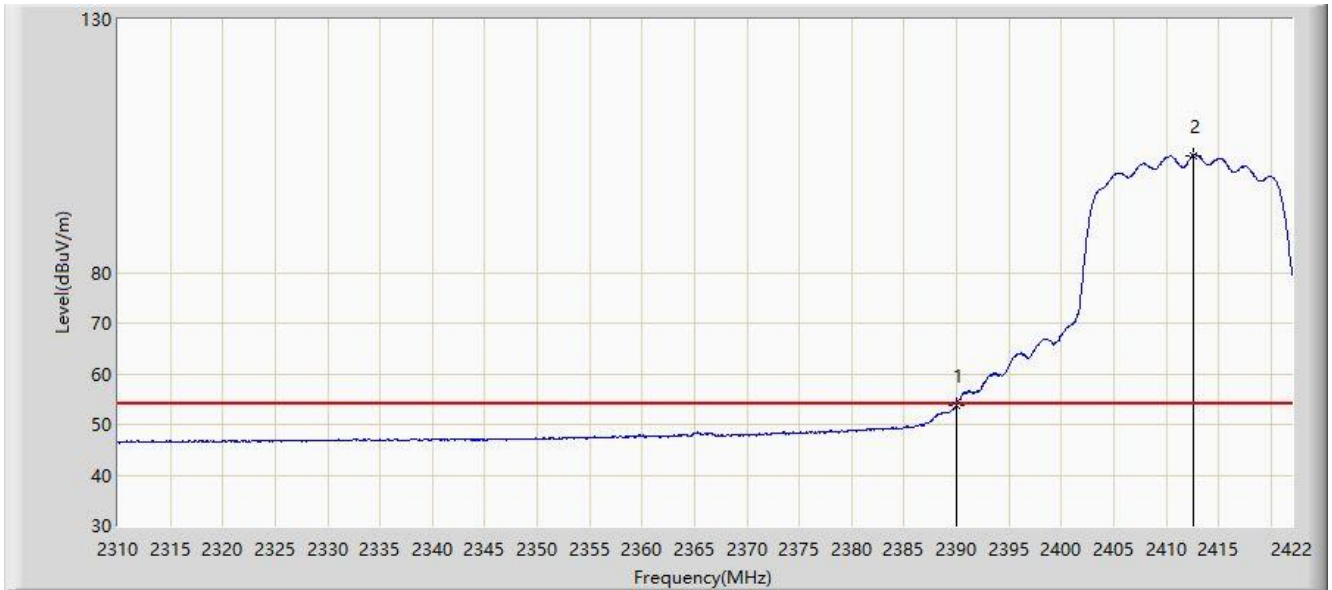


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	67.556	35.291	-6.444	74.000	32.265	PK
2		*	2409.960	111.560	79.192	N/A	N/A	32.367	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: SIP-AC3	Time: 2021/06/21 - 10:19
Limit: FCC_Part15_15.209 RE(3m)	Engineer: Allen Zou
Probe: SIP-AC3_HF907_102861_1-18GHz	Polarity: Vertical
EUT: WiFi 6 Extender	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11g at channel 2412MHz	

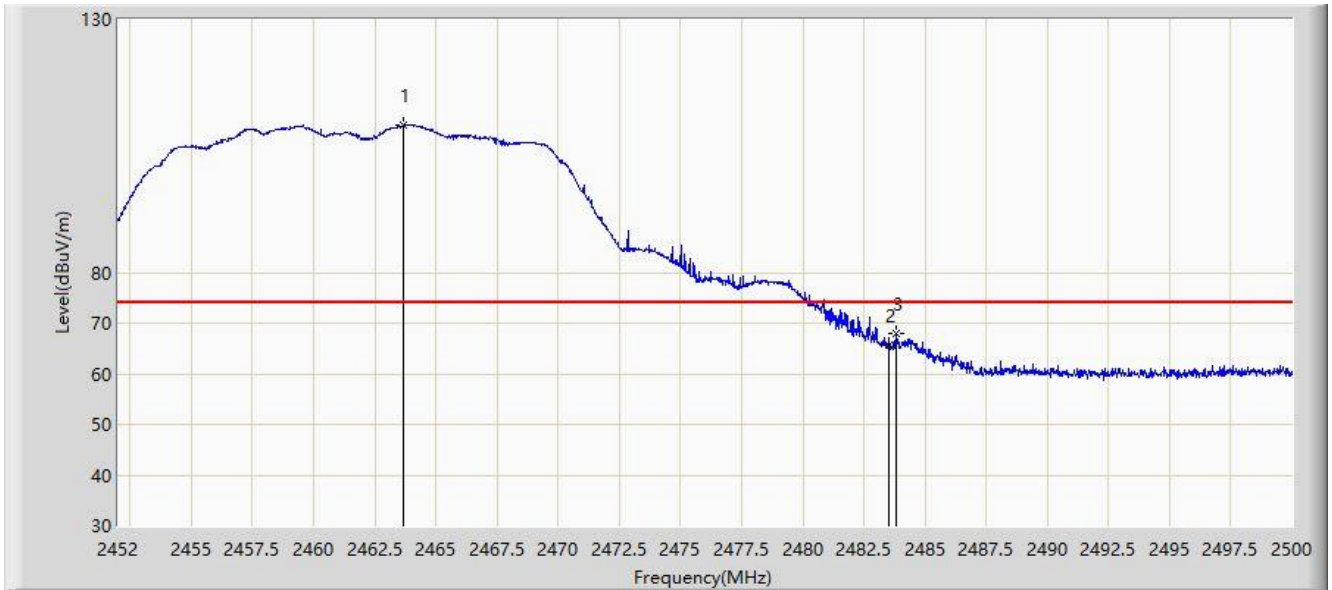


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	53.767	21.502	-0.233	54.000	32.265	AV
2		*	2412.592	103.167	70.786	N/A	N/A	32.380	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: SIP-AC3	Time: 2021/06/21 - 10:44
Limit: FCC_Part15_15.209 RE(3m)	Engineer: Allen Zou
Probe: SIP-AC3_HF907_102861_1-18GHz	Polarity: Horizontal
EUT: WiFi 6 Extender	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11g at channel 2462MHz	

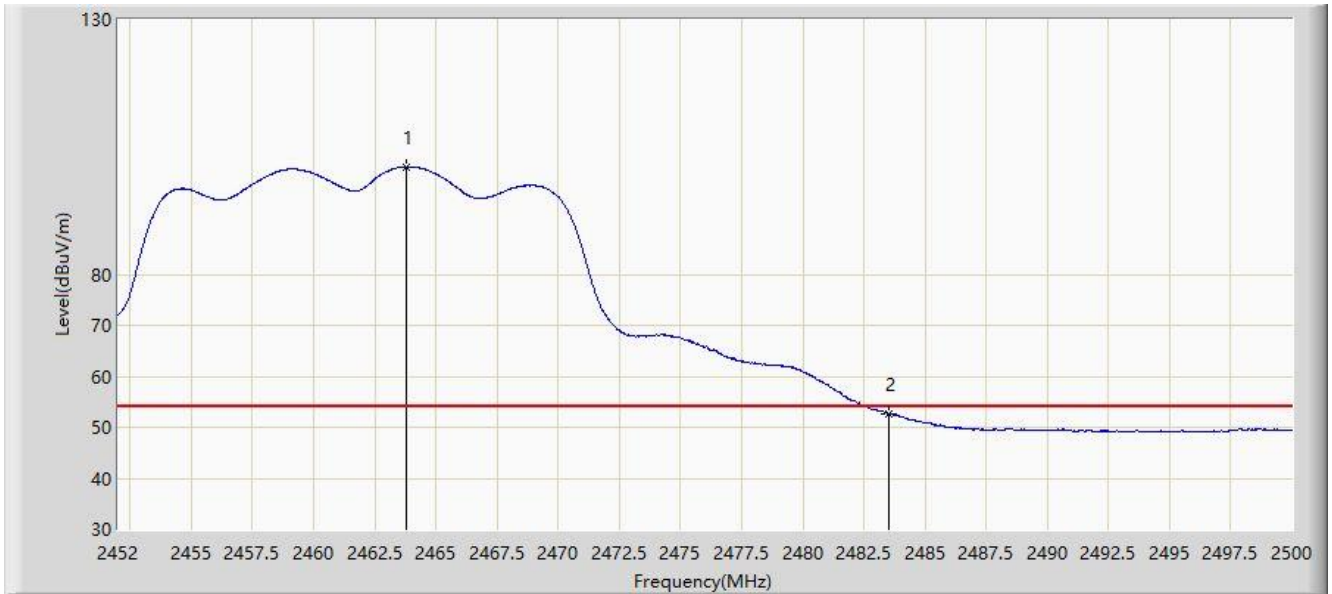


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2463.664	109.159	76.511	N/A	N/A	32.649	PK
2			2483.500	65.521	32.749	-8.479	74.000	32.772	PK
3			2483.848	67.955	35.181	-6.045	74.000	32.774	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: SIP-AC3	Time: 2021/06/21 - 10:46
Limit: FCC_Part15_15.209 RE(3m)	Engineer: Allen Zou
Probe: SIP-AC3_HF907_102861_1-18GHz	Polarity: Horizontal
EUT: WiFi 6 Extender	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11g at channel 2462MHz	

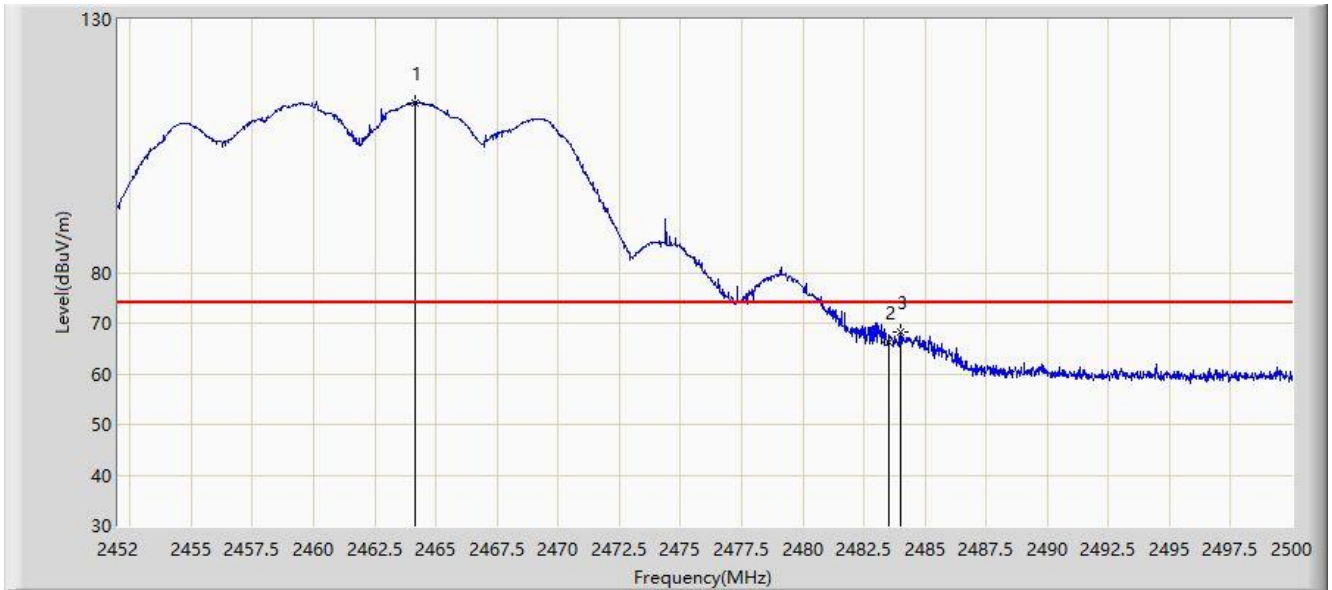


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2463.760	101.121	68.472	N/A	N/A	32.649	AV
2			2483.500	52.732	19.960	-1.268	54.000	32.772	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: SIP-AC3	Time: 2021/06/21 - 10:42
Limit: FCC_Part15_15.209 RE(3m)	Engineer: Allen Zou
Probe: SIP-AC3_HF907_102861_1-18GHz	Polarity: Vertical
EUT: WiFi 6 Extender	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11g at channel 2462MHz	

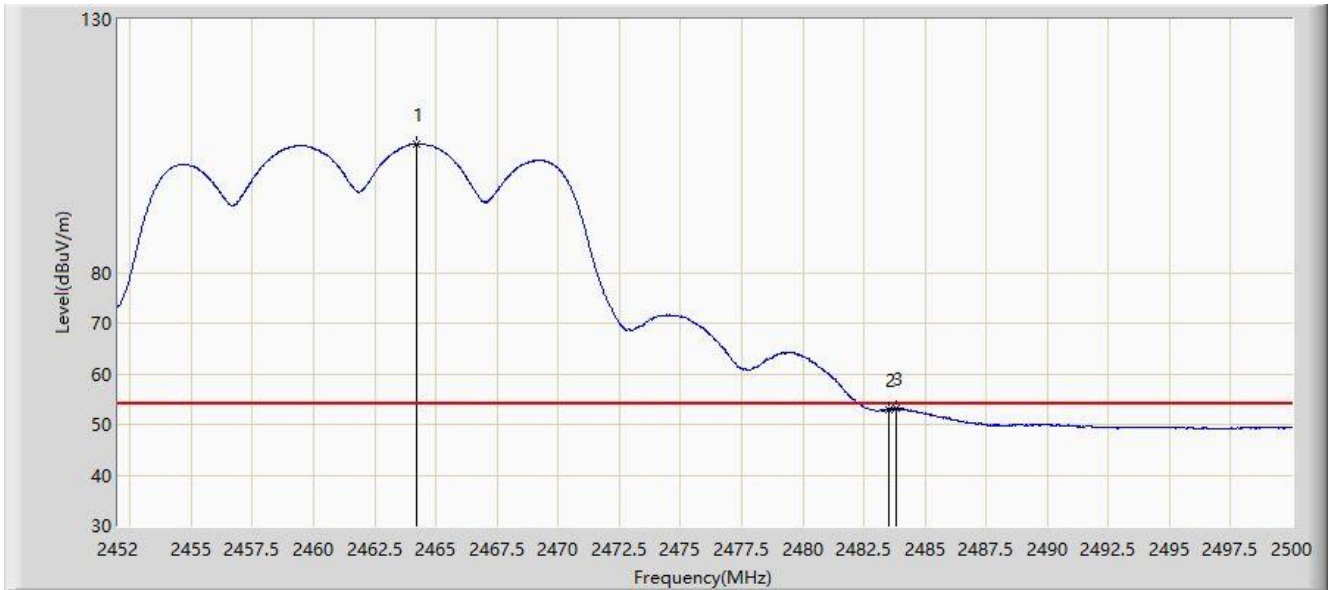


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2464.144	113.545	80.894	N/A	N/A	32.652	PK
2			2483.500	66.303	33.531	-7.697	74.000	32.772	PK
3			2484.016	68.391	35.616	-5.609	74.000	32.775	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: SIP-AC3	Time: 2021/06/21 - 10:42
Limit: FCC_Part15_15.209 RE(3m)	Engineer: Allen Zou
Probe: SIP-AC3_HF907_102861_1-18GHz	Polarity: Vertical
EUT: WiFi 6 Extender	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11g at channel 2462MHz	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2464.216	105.392	72.740	N/A	N/A	32.652	AV
2			2483.500	52.923	20.151	-1.077	54.000	32.772	AV
3			2483.848	53.146	20.372	-0.854	54.000	32.774	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: SIP-AC3	Time: 2021/06/21 - 11:02
Limit: FCC_Part15_15.209 RE(3m)	Engineer: Allen Zou
Probe: SIP-AC3_HF907_102861_1-18GHz	Polarity: Horizontal
EUT: WiFi 6 Extender	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT20 at channel 2412MHz	

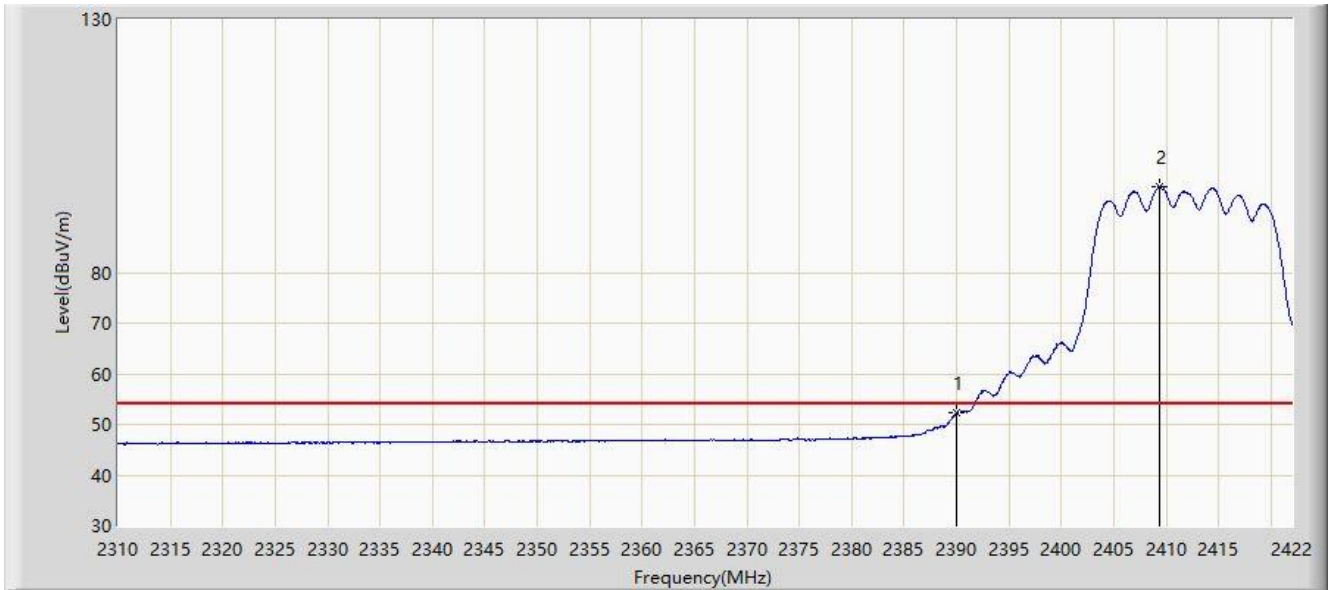


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2389.856	66.659	34.395	-7.341	74.000	32.264	PK
2			2390.000	64.946	32.681	-9.054	74.000	32.265	PK
3		*	2409.176	105.374	73.010	N/A	N/A	32.364	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: SIP-AC3	Time: 2021/06/21 - 11:06
Limit: FCC_Part15_15.209 RE(3m)	Engineer: Allen Zou
Probe: SIP-AC3_HF907_102861_1-18GHz	Polarity: Horizontal
EUT: WiFi 6 Extender	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT20 at channel 2412MHz	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	52.218	19.953	-1.782	54.000	32.265	AV
2		*	2409.344	96.985	64.620	N/A	N/A	32.364	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: SIP-AC3	Time: 2021/06/21 - 10:59
Limit: FCC_Part15_15.209 RE(3m)	Engineer: Allen Zou
Probe: SIP-AC3_HF907_102861_1-18GHz	Polarity: Vertical
EUT: WiFi 6 Extender	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT20 at channel 2412MHz	

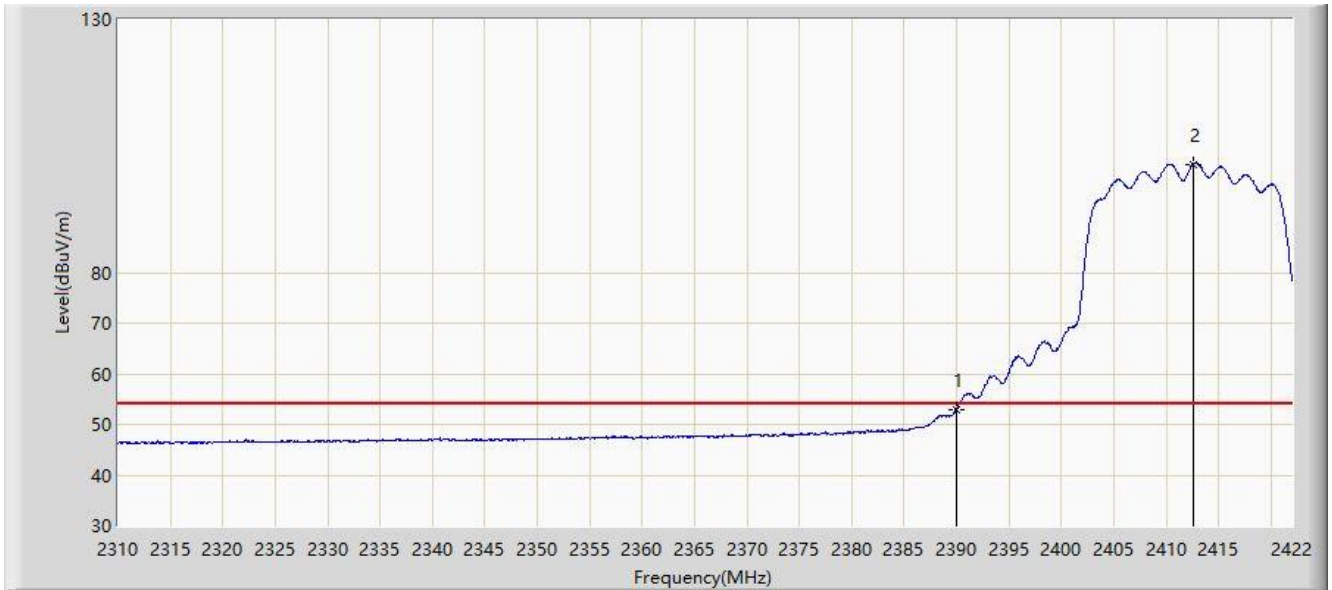


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2389.968	67.679	35.414	-6.321	74.000	32.265	PK
2			2390.000	67.597	35.332	-6.403	74.000	32.265	PK
3		*	2410.072	109.829	77.461	N/A	N/A	32.369	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: SIP-AC3	Time: 2021/06/21 - 10:58
Limit: FCC_Part15_15.209 RE(3m)	Engineer: Allen Zou
Probe: SIP-AC3_HF907_102861_1-18GHz	Polarity: Vertical
EUT: WiFi 6 Extender	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT20 at channel 2412MHz	

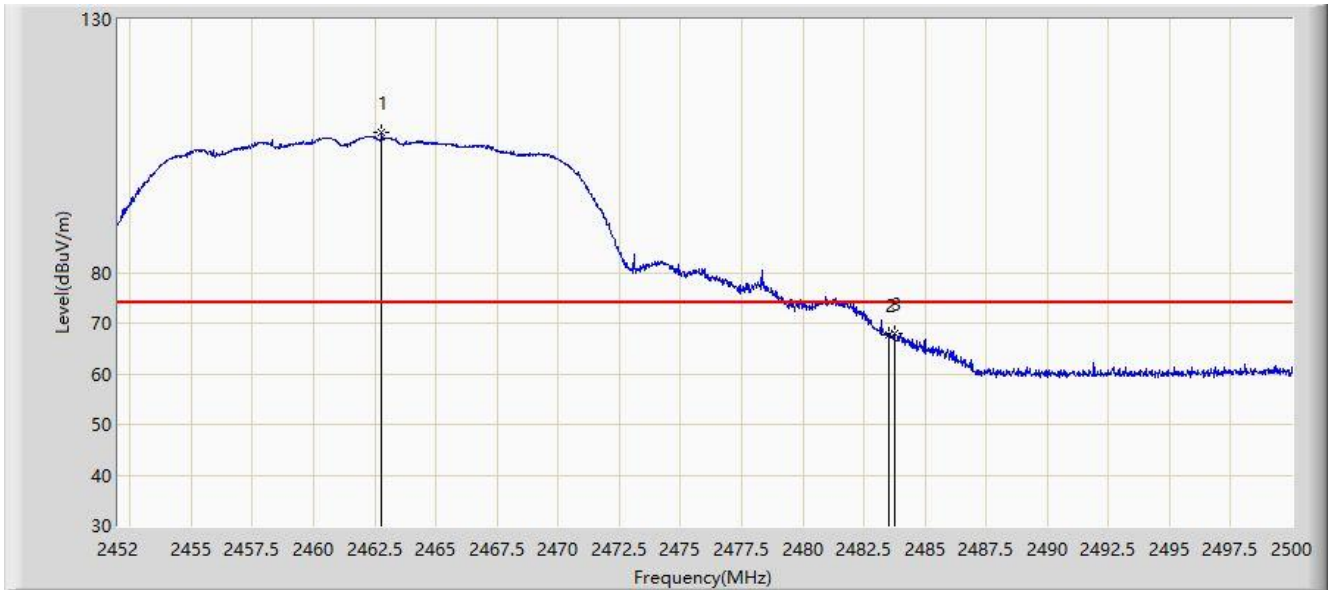


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	52.949	20.684	-1.051	54.000	32.265	AV
2		*	2412.536	101.362	68.982	N/A	N/A	32.380	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: SIP-AC3	Time: 2021/06/21 - 11:28
Limit: FCC_Part15_15.209 RE(3m)	Engineer: Allen Zou
Probe: SIP-AC3_HF907_102861_1-18GHz	Polarity: Horizontal
EUT: WiFi 6 Extender	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT20 at channel 2462MHz	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2462.776	107.607	74.964	N/A	N/A	32.643	PK
2			2483.500	67.711	34.939	-6.289	74.000	32.772	PK
3			2483.752	68.004	35.231	-5.996	74.000	32.773	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: SIP-AC3	Time: 2021/06/21 - 11:33
Limit: FCC_Part15_15.209 RE(3m)	Engineer: Allen Zou
Probe: SIP-AC3_HF907_102861_1-18GHz	Polarity: Horizontal
EUT: WiFi 6 Extender	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT20 at channel 2462MHz	

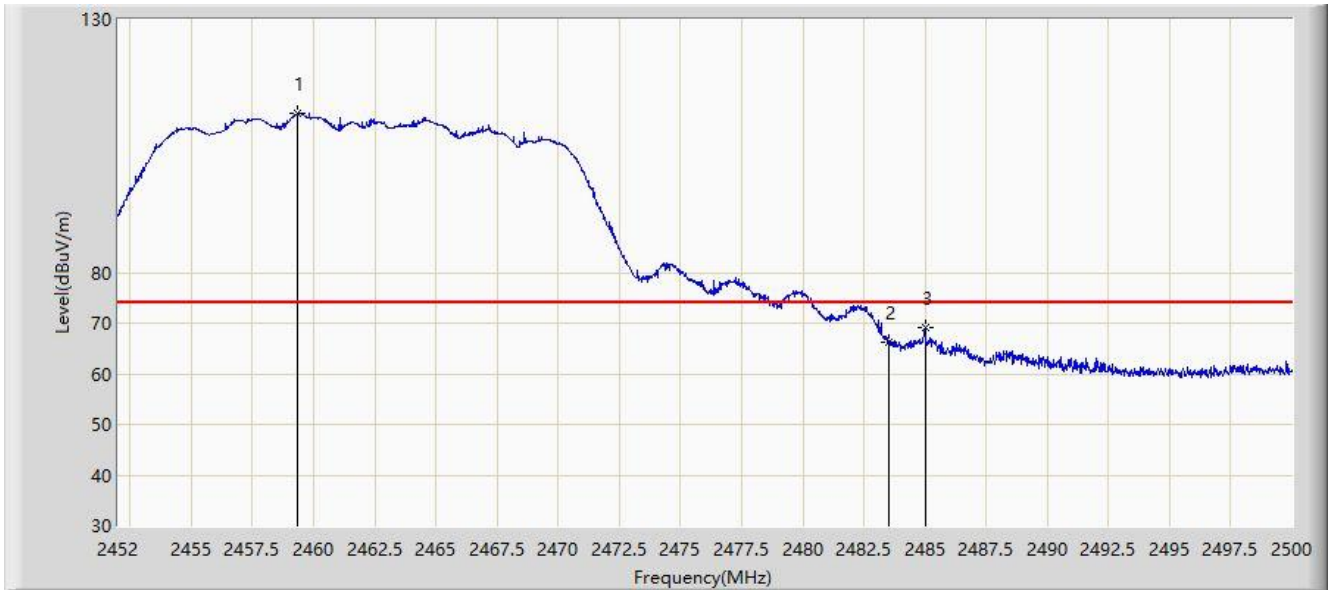


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2460.496	98.797	66.169	N/A	N/A	32.628	AV
2			2483.500	52.939	20.167	-1.061	54.000	32.772	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: SIP-AC3	Time: 2021/06/21 - 11:26
Limit: FCC_Part15_15.209 RE(3m)	Engineer: Allen Zou
Probe: SIP-AC3_HF907_102861_1-18GHz	Polarity: Vertical
EUT: WiFi 6 Extender	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT20 at channel 2462MHz	

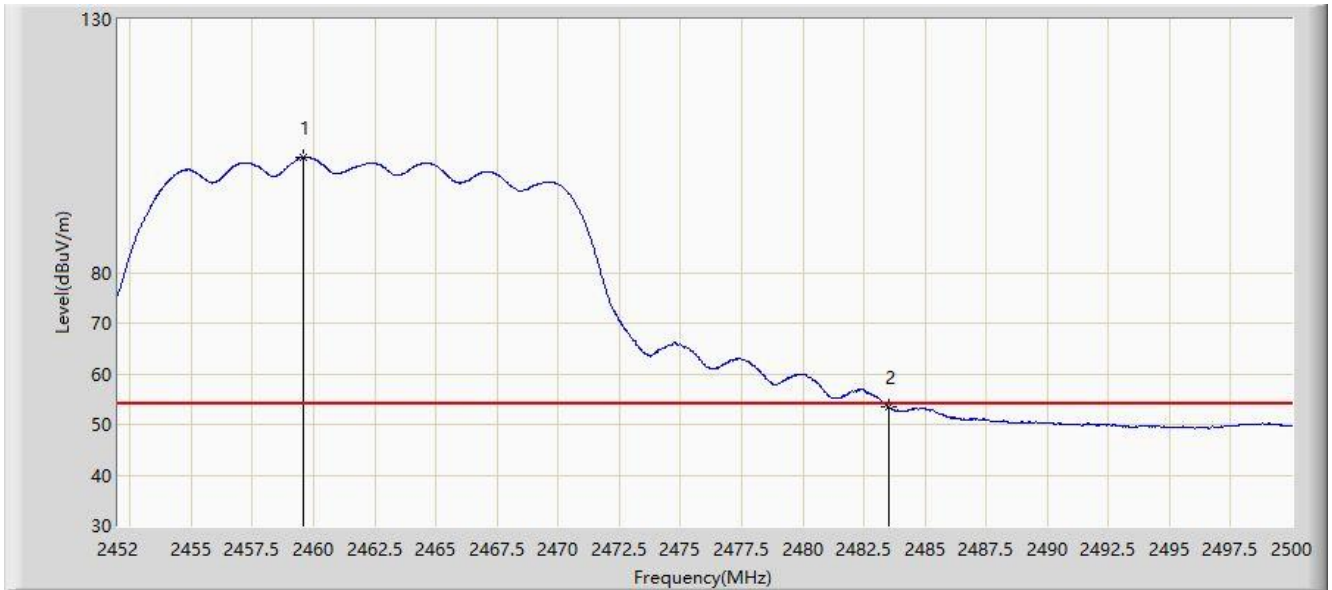


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2459.368	111.379	78.758	N/A	N/A	32.620	PK
2			2483.500	66.311	33.539	-7.689	74.000	32.772	PK
3			2485.000	68.989	36.208	-5.011	74.000	32.781	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: SIP-AC3	Time: 2021/06/21 - 11:25
Limit: FCC_Part15_15.209 RE(3m)	Engineer: Allen Zou
Probe: SIP-AC3_HF907_102861_1-18GHz	Polarity: Vertical
EUT: WiFi 6 Extender	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT20 at channel 2462MHz	

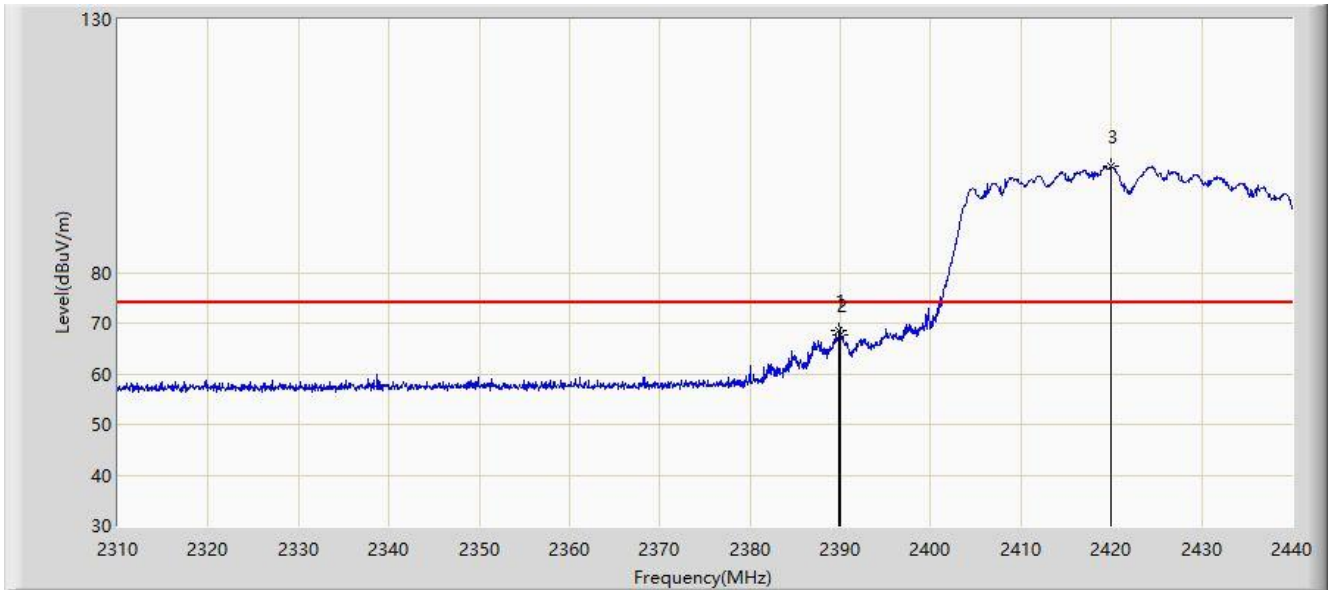


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2459.584	102.723	70.101	N/A	N/A	32.622	AV
2			2483.500	53.551	20.779	-0.449	54.000	32.772	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: SIP-AC3	Time: 2021/06/21 - 11:43
Limit: FCC_Part15_15.209 RE(3m)	Engineer: Allen Zou
Probe: SIP-AC3_HF907_102861_1-18GHz	Polarity: Horizontal
EUT: WiFi 6 Extender	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT40 at channel 2422MHz	

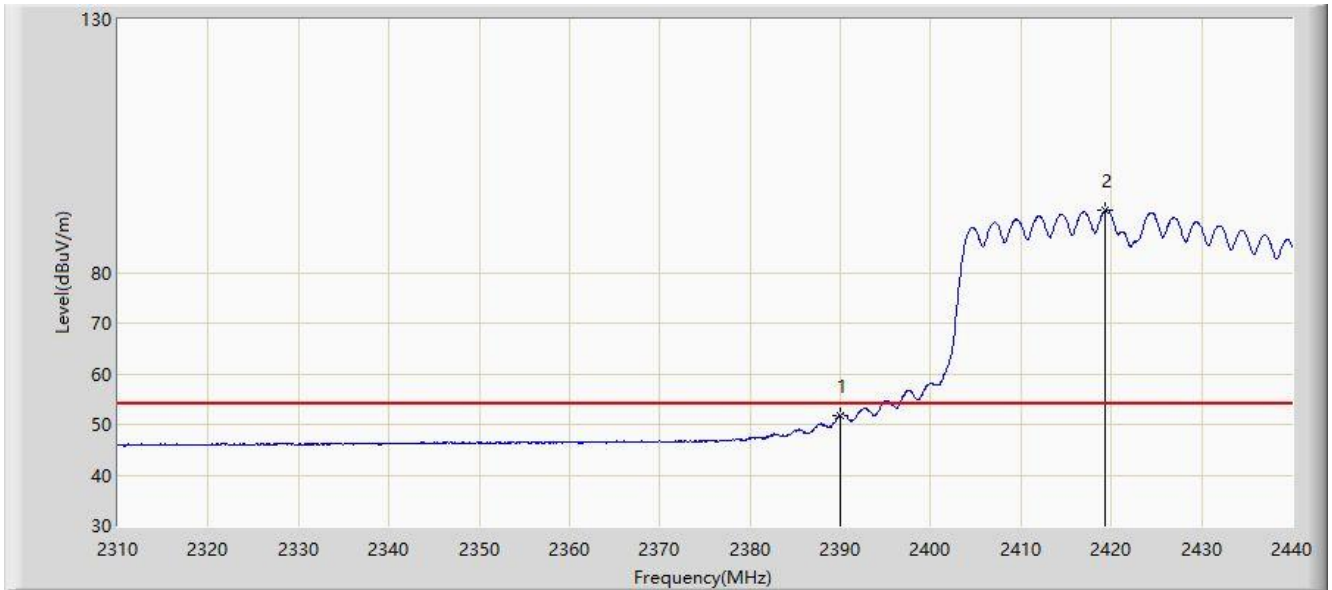


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2389.885	68.518	36.254	-5.482	74.000	32.264	PK
2			2390.000	67.819	35.554	-6.181	74.000	32.265	PK
3		*	2419.980	101.098	68.682	N/A	N/A	32.416	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: SIP-AC3	Time: 2021/06/21 - 11:46
Limit: FCC_Part15_15.209 RE(3m)	Engineer: Allen Zou
Probe: SIP-AC3_HF907_102861_1-18GHz	Polarity: Horizontal
EUT: WiFi 6 Extender	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT40 at channel 2422MHz	

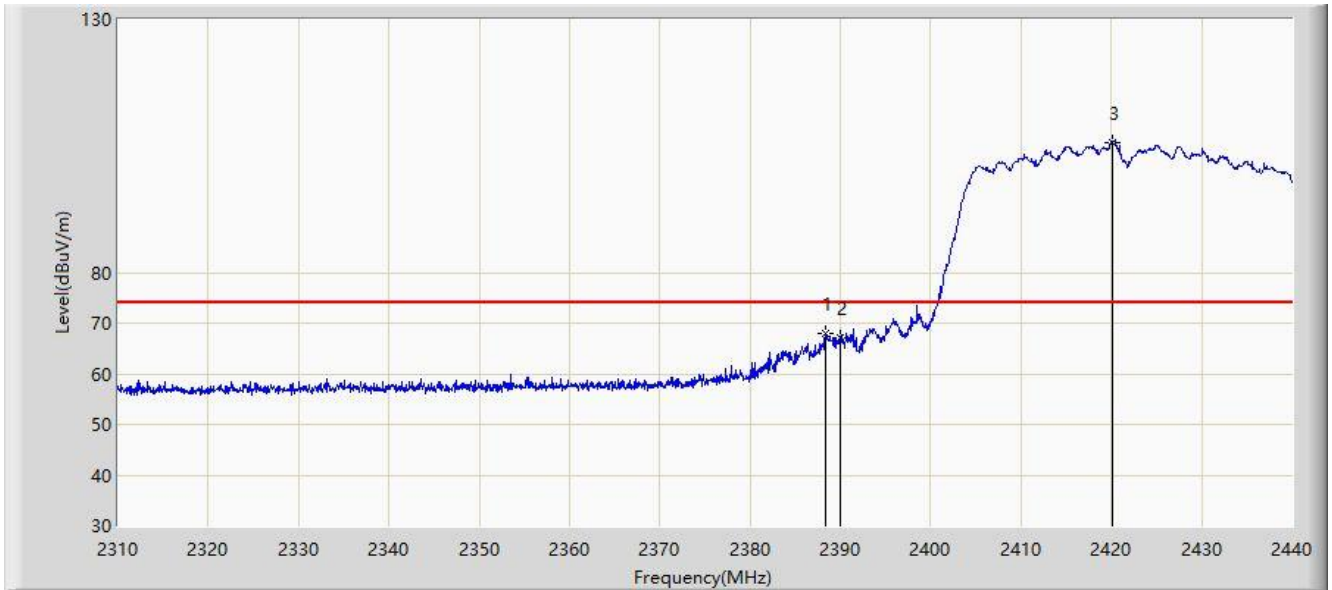


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	51.848	19.583	-2.152	54.000	32.265	AV
2		*	2419.330	92.287	59.874	N/A	N/A	32.413	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: SIP-AC3	Time: 2021/06/21 - 11:42
Limit: FCC_Part15_15.209 RE(3m)	Engineer: Allen Zou
Probe: SIP-AC3_HF907_102861_1-18GHz	Polarity: Vertical
EUT: WiFi 6 Extender	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT40 at channel 2422MHz	

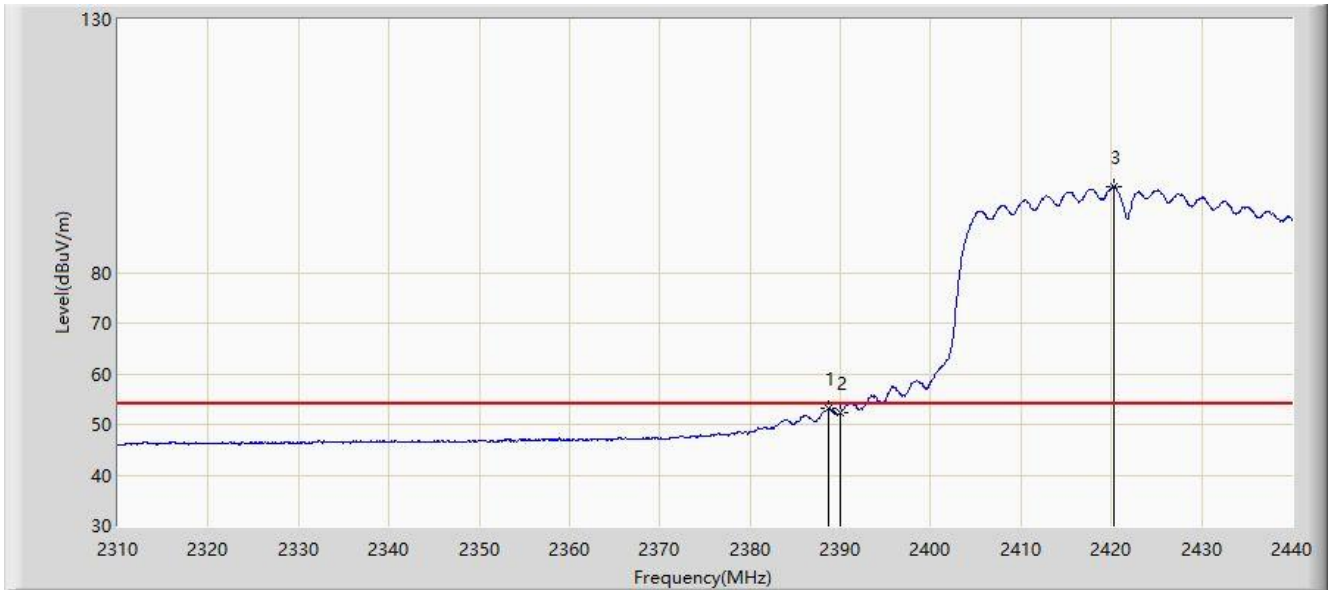


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2388.325	67.930	35.674	-6.070	74.000	32.256	PK
2			2390.000	67.246	34.981	-6.754	74.000	32.265	PK
3		*	2420.110	105.759	73.342	N/A	N/A	32.417	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: SIP-AC3	Time: 2021/06/21 - 11:41
Limit: FCC_Part15_15.209 RE(3m)	Engineer: Allen Zou
Probe: SIP-AC3_HF907_102861_1-18GHz	Polarity: Vertical
EUT: WiFi 6 Extender	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT40 at channel 2422MHz	

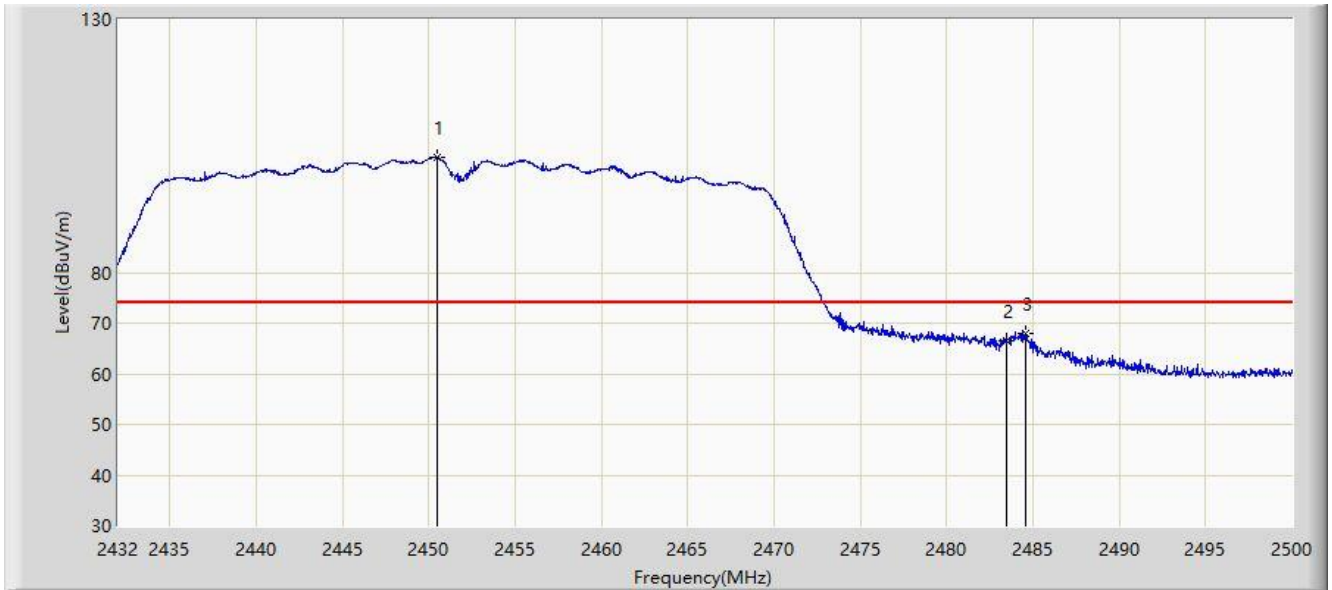


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2388.650	53.169	20.911	-0.831	54.000	32.258	AV
2			2390.000	52.334	20.069	-1.666	54.000	32.265	AV
3		*	2420.240	96.947	64.529	N/A	N/A	32.418	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: SIP-AC3	Time: 2021/06/21 - 11:56
Limit: FCC_Part15_15.209 RE(3m)	Engineer: Allen Zou
Probe: SIP-AC3_HF907_102861_1-18GHz	Polarity: Horizontal
EUT: WiFi 6 Extender	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT40 at channel 2452MHz	

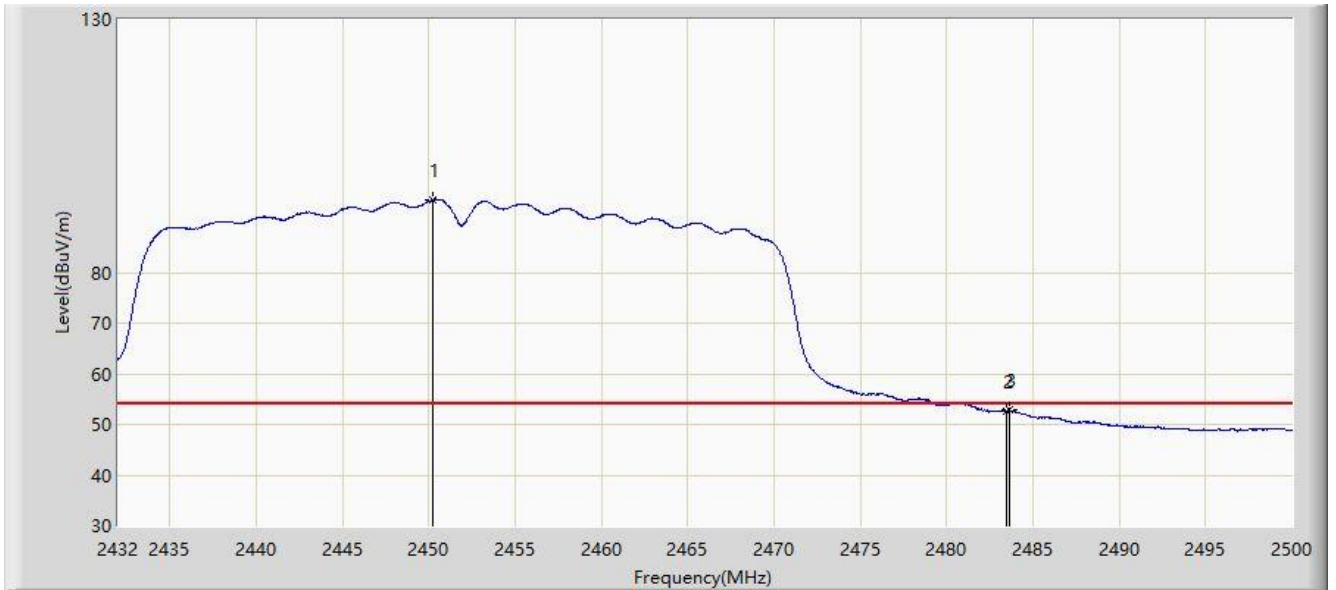


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2450.462	102.727	70.165	N/A	N/A	32.562	PK
2			2483.500	66.655	33.883	-7.345	74.000	32.772	PK
3			2484.598	68.105	35.327	-5.895	74.000	32.779	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: SIP-AC3	Time: 2021/06/21 - 11:59
Limit: FCC_Part15_15.209 RE(3m)	Engineer: Allen Zou
Probe: SIP-AC3_HF907_102861_1-18GHz	Polarity: Horizontal
EUT: WiFi 6 Extender	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT40 at channel 2452MHz	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2450.258	94.491	61.930	N/A	N/A	32.560	AV
2			2483.500	52.723	19.951	-1.277	54.000	32.772	AV
3			2483.646	52.781	20.008	-1.219	54.000	32.773	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: SIP-AC3	Time: 2021/06/21 - 11:55
Limit: FCC_Part15_15.209 RE(3m)	Engineer: Allen Zou
Probe: SIP-AC3_HF907_102861_1-18GHz	Polarity: Vertical
EUT: WiFi 6 Extender	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT40 at channel 2452MHz	

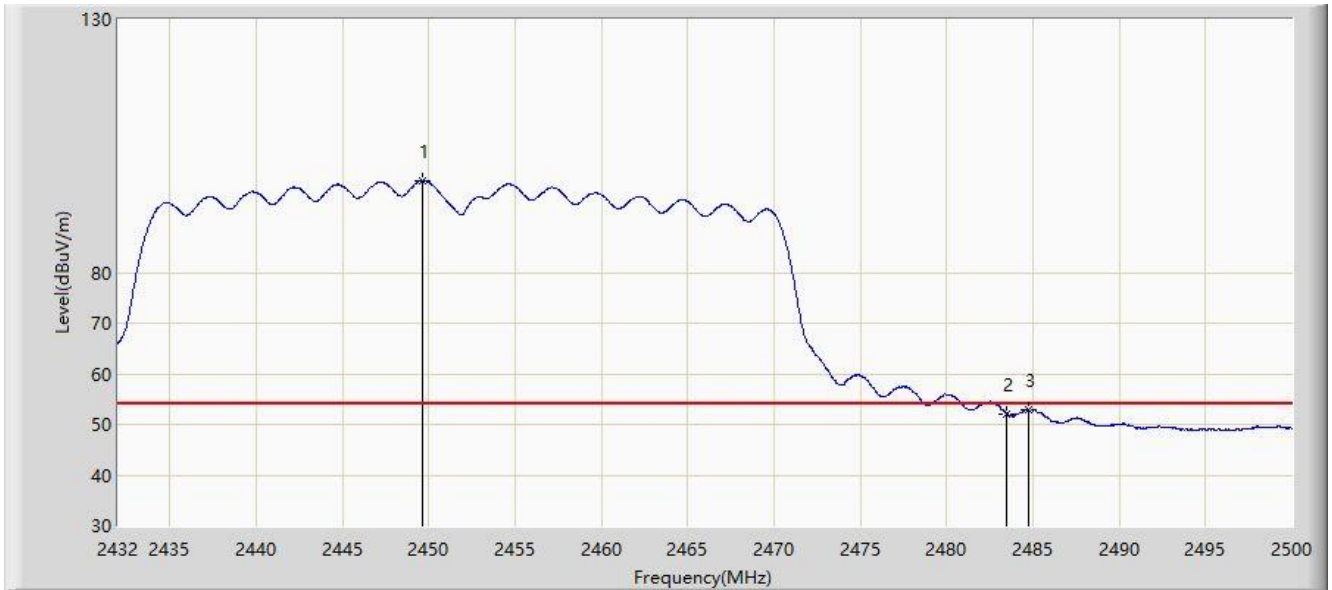


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2449.850	106.604	74.046	N/A	N/A	32.558	PK
2			2483.500	64.040	31.268	-9.960	74.000	32.772	PK
3			2484.666	67.390	34.611	-6.610	74.000	32.779	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: SIP-AC3	Time: 2021/06/21 - 11:54
Limit: FCC_Part15_15.209 RE(3m)	Engineer: Allen Zou
Probe: SIP-AC3_HF907_102861_1-18GHz	Polarity: Vertical
EUT: WiFi 6 Extender	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT40 at channel 2452MHz	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2449.612	98.233	65.677	N/A	N/A	32.556	AV
2			2483.500	52.158	19.386	-1.842	54.000	32.772	AV
3			2484.734	52.894	20.115	-1.106	54.000	32.779	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

5.8. AC Conducted Emissions Measurement

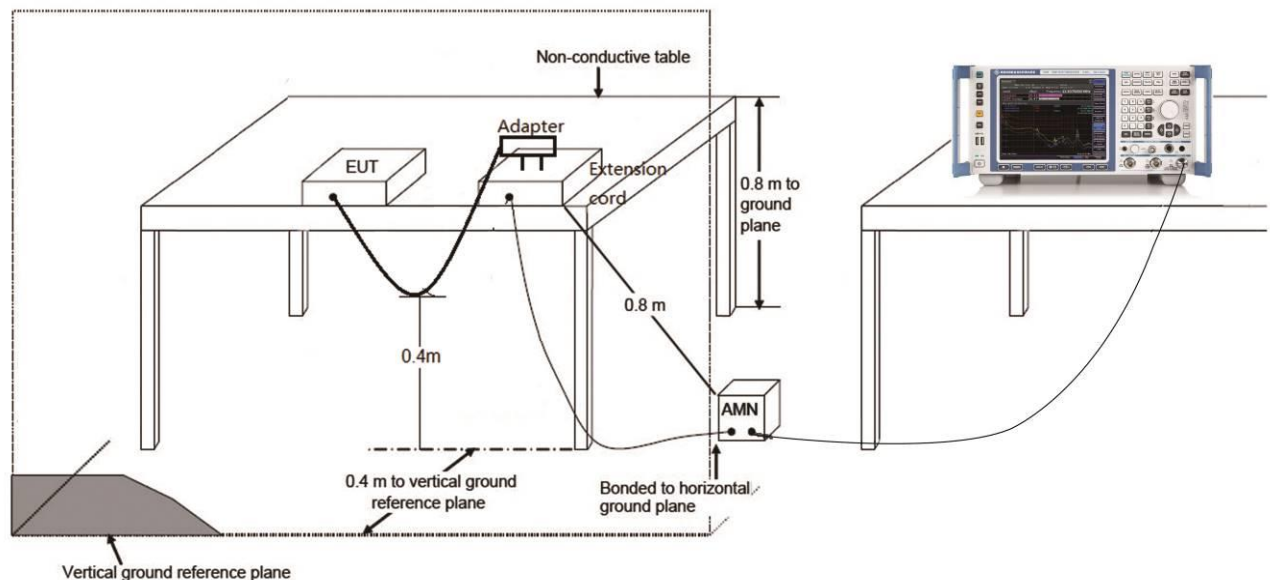
5.8.1. Test Limit

FCC Part 15 Subpart C Paragraph 15.207 Limits		
Frequency (MHz)	QP (dBuV)	AV (dBuV)
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.

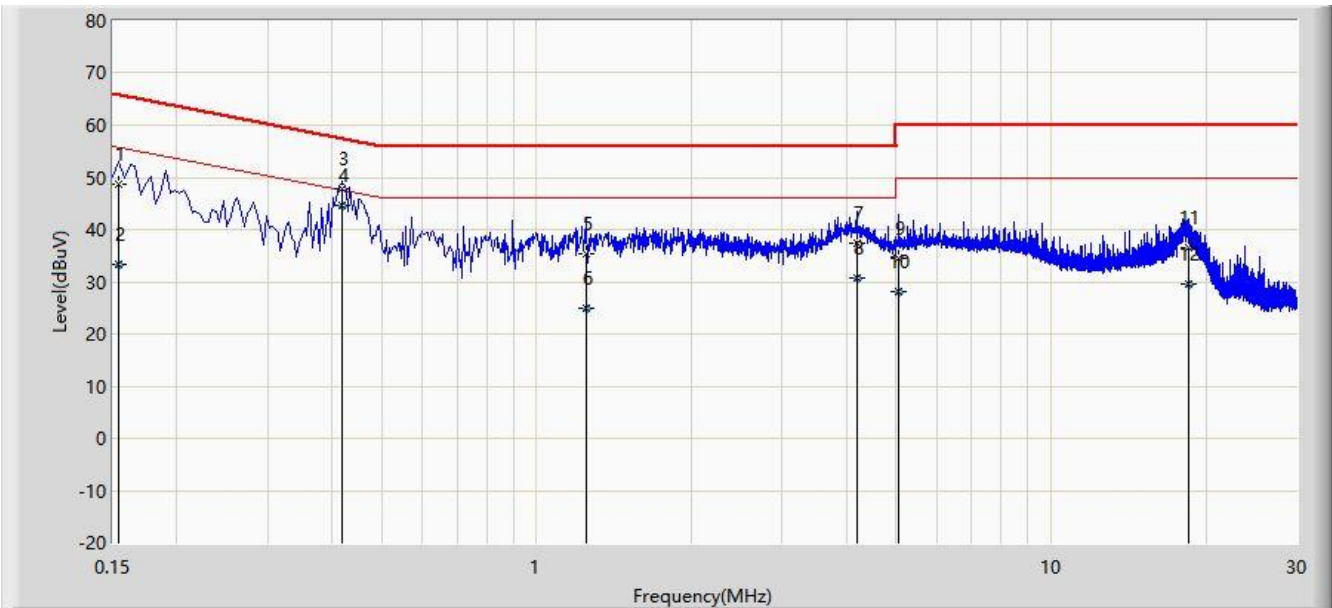
Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

5.8.2. Test Setup



5.8.3.Test Result

Site: WZ-SR2	Time: 2021/07/29 - 17:57
Limit: FCC_Part15.207_CE_AC Power	Engineer: Linda Wei
Probe: ENV216_101683_Filter Off_E	Polarity: Line
EUT: WiFi 6 Extender	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at Channel 2412MHz	

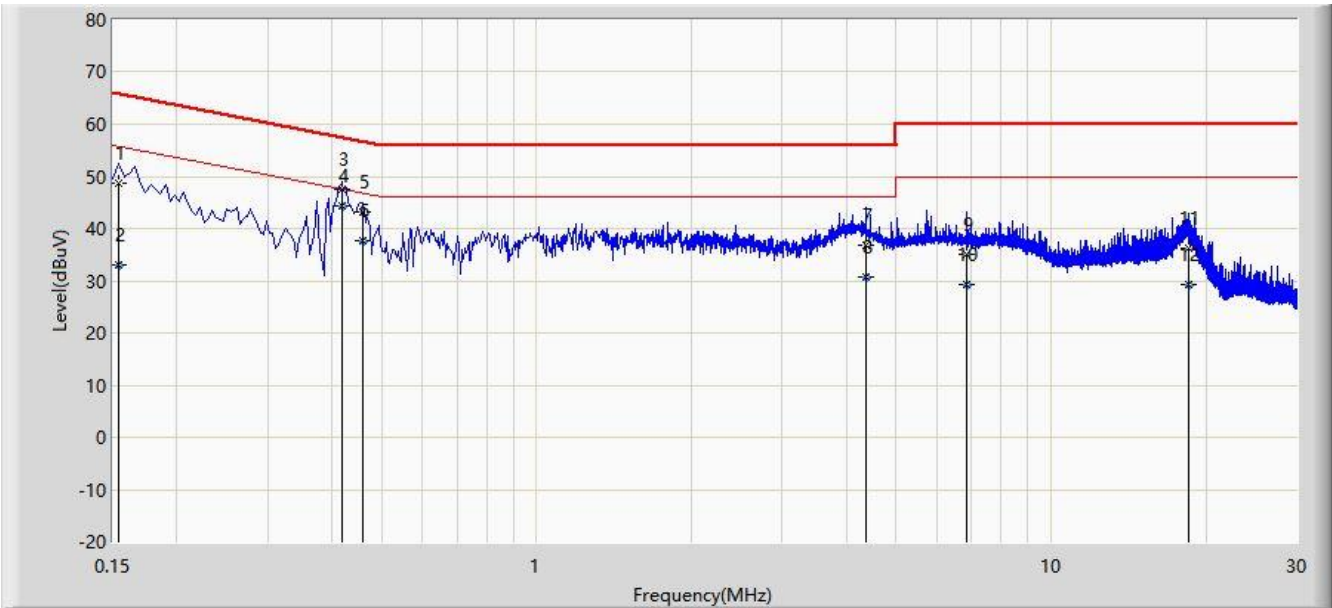


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV)	Factor (dB)	Type
1			0.154	48.694	38.705	-17.088	65.781	9.988	QP
2			0.154	33.382	23.394	-22.399	55.781	9.988	AV
3			0.418	47.847	37.840	-9.640	57.488	10.007	QP
4		*	0.418	44.746	34.739	-2.742	47.488	10.007	AV
5			1.246	35.430	25.328	-20.570	56.000	10.102	QP
6			1.246	24.947	14.845	-21.053	46.000	10.102	AV
7			4.194	37.351	26.508	-18.649	56.000	10.843	QP
8			4.194	30.721	19.878	-15.279	46.000	10.843	AV
9			5.058	34.470	23.365	-25.530	60.000	11.105	QP
10			5.058	28.085	16.980	-21.915	50.000	11.105	AV
11			18.486	36.595	21.242	-23.405	60.000	15.353	QP
12			18.486	29.643	14.290	-20.357	50.000	15.353	AV

Note: Measure Level (dBμV) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + LISN Factor (dB).

Site: WZ-SR2	Time: 2021/07/29 - 18:03
Limit: FCC_Part15.207_CE_AC Power	Engineer: Linda Wei
Probe: ENV216_101683_Filter Off_E	Polarity: Neutral
EUT: WiFi 6 Extender	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at Channel 2412MHz	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV)	Factor (dB)	Type
1			0.154	48.570	38.538	-17.212	65.781	10.031	QP
2			0.154	33.014	22.982	-22.768	55.781	10.031	AV
3			0.418	47.407	37.363	-10.081	57.488	10.044	QP
4		*	0.418	44.282	34.237	-3.206	47.488	10.044	AV
5			0.458	43.186	33.139	-13.543	56.729	10.047	QP
6			0.458	37.548	27.501	-9.181	46.729	10.047	AV
7			4.374	36.943	26.022	-19.057	56.000	10.920	QP
8			4.374	30.702	19.781	-15.298	46.000	10.920	AV
9			6.854	35.023	23.392	-24.977	60.000	11.631	QP
10			6.854	29.242	17.611	-20.758	50.000	11.631	AV
11			18.454	36.169	20.941	-23.831	60.000	15.228	QP
12			18.454	29.228	13.999	-20.772	50.000	15.228	AV

Note: Measure Level (dBμV) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + LISN Factor (dB).

6. 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 "2105RSU006-UT" file.

Appendix B - EUT Photograph

Refer to "2105RSU006-UE" file.