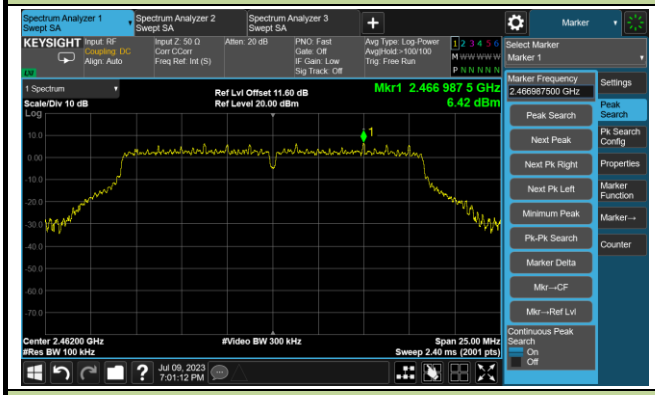
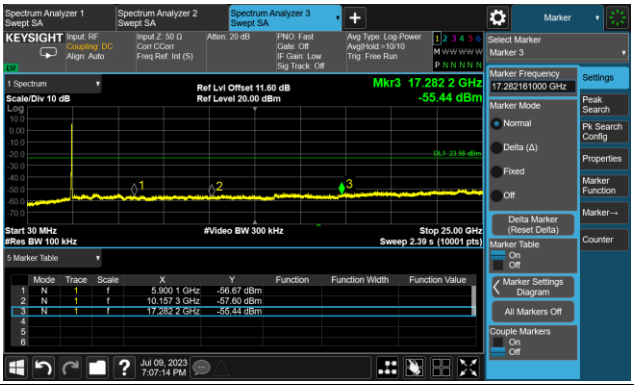
802.11g Out-of-Band Emissions – Ant 1	
Channel 11 (2462MHz)	
100kHz PSD Reference Level	High Band Edge
	
Spurious Emission	
	

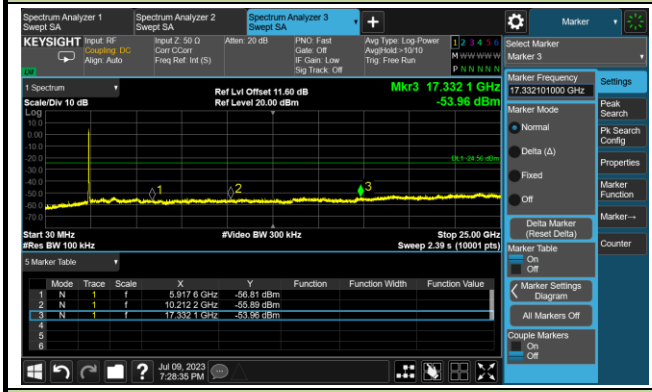
802.11n-HT20 Out-of-Band Emissions – Ant 1

Channel 01 (2412MHz)

100kHz PSD Reference Level

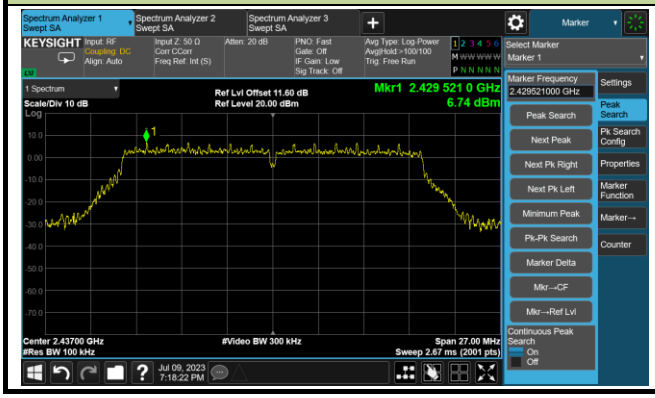
Low Band Edge

Spurious Emission

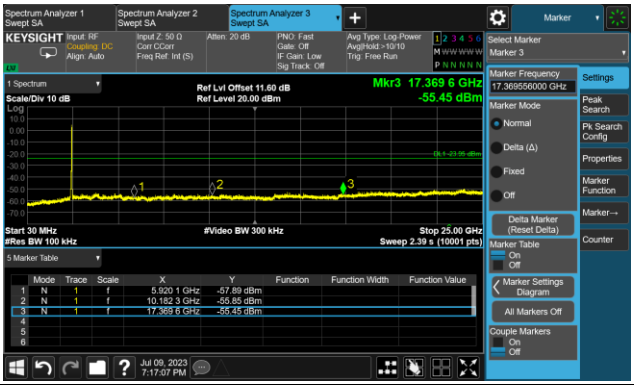


Channel 06 (2437MHz)

100kHz PSD Reference Level



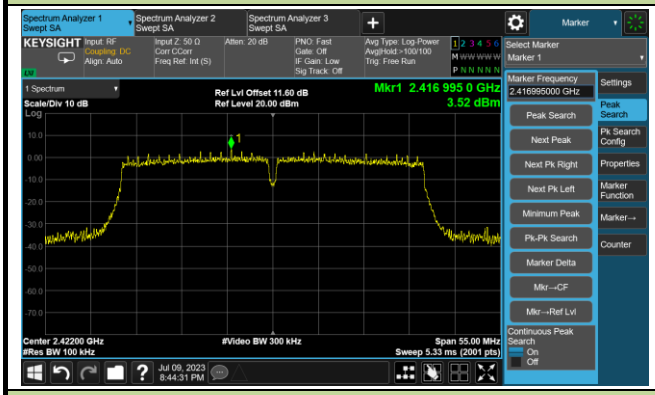
Spurious Emission

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

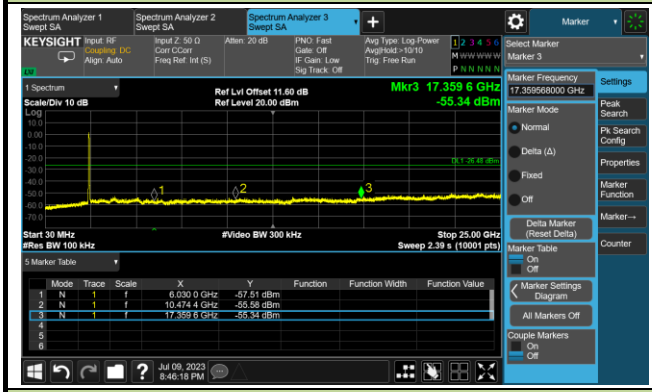
Channel 03 (2422MHz)

100kHz PSD Reference Level



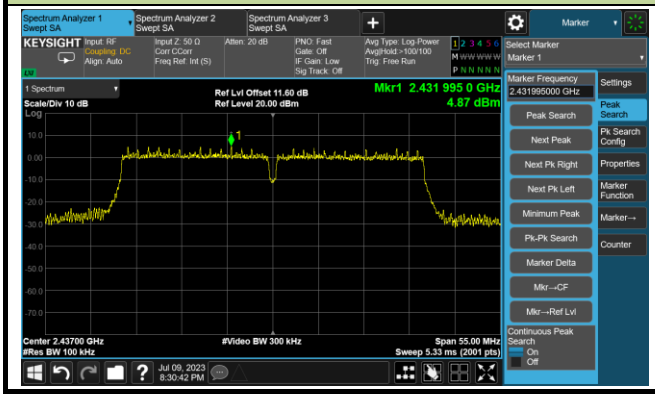
Low Band Edge

Spurious Emission

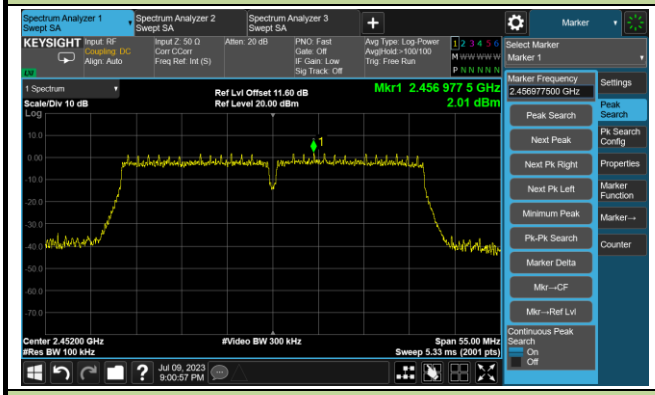
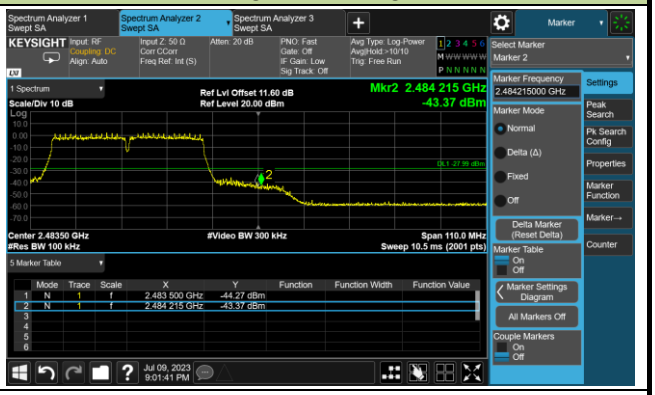
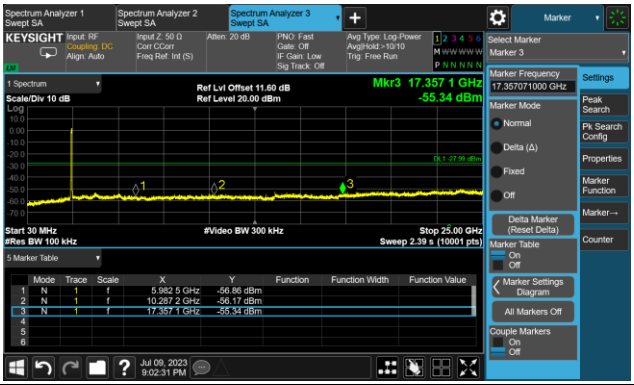


Channel 06 (2437MHz)

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	
	

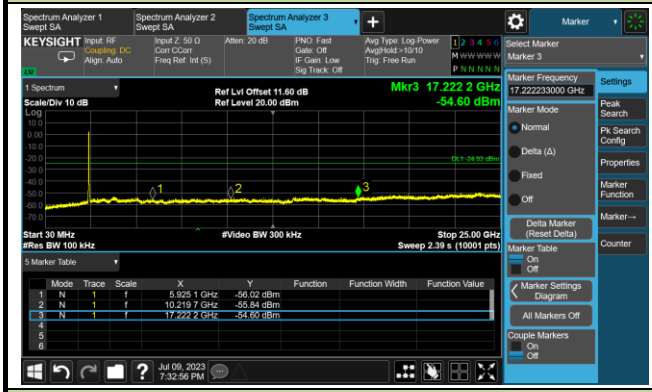
802.11ax-HE20 Out-of-Band Emissions – Ant 1

Channel 01 (2412MHz)

100kHz PSD Reference Level

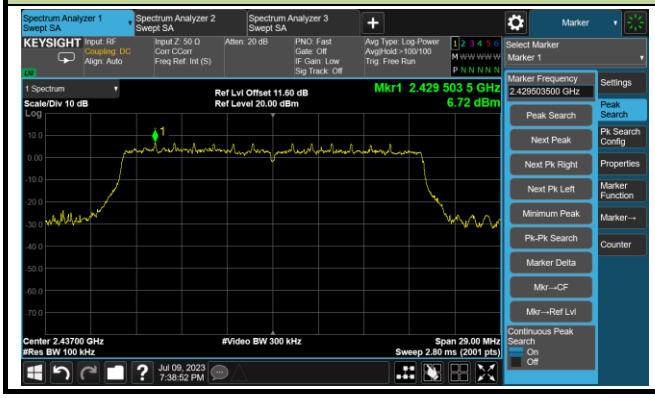
Low Band Edge

Spurious Emission

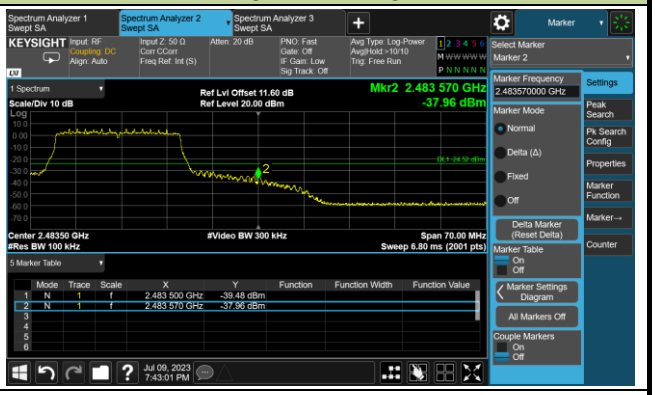
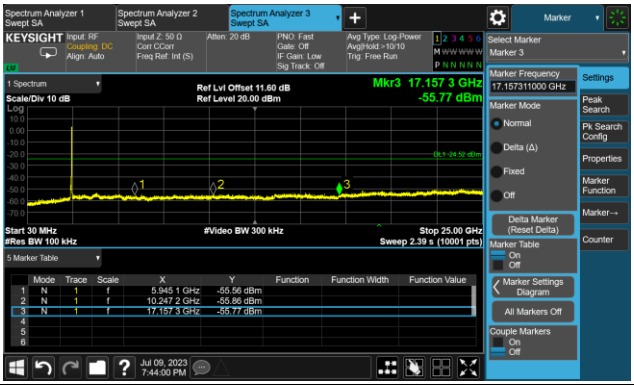


Channel 06 (2437MHz)

100kHz PSD Reference Level



Spurious Emission

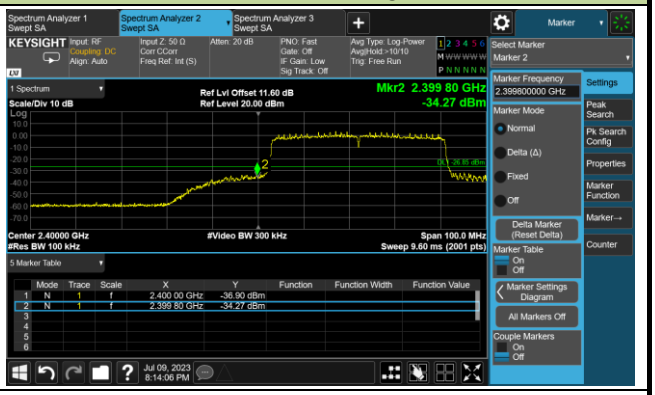
802.11ax-HE20 Out-of-Band Emissions – Ant 1	
Channel 11 (2462MHz)	
100kHz PSD Reference Level	High Band Edge
	
Spurious Emission	
	

802.11ax-HE40 Out-of-Band Emissions – Ant 1

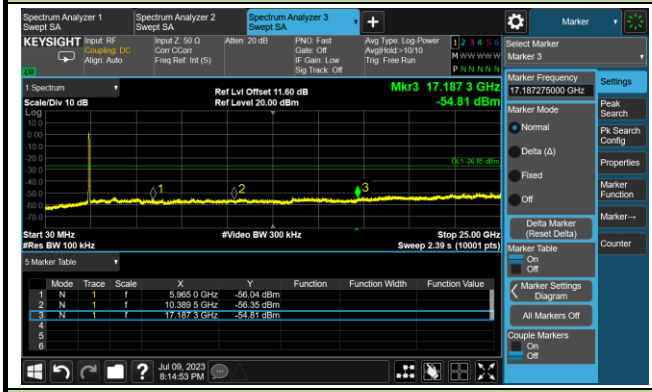
Channel 03 (2422MHz)

100kHz PSD Reference Level

Low Band Edge

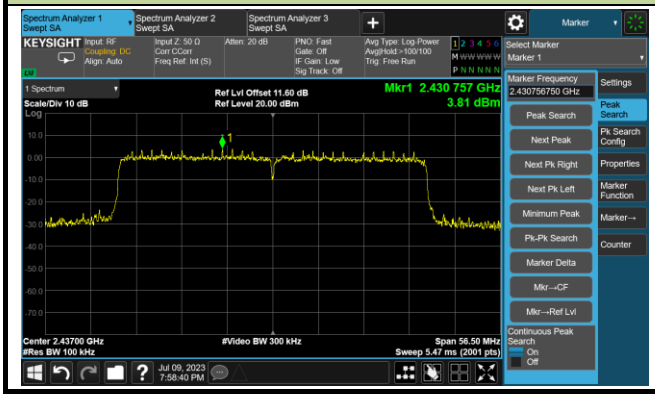


Spurious Emission

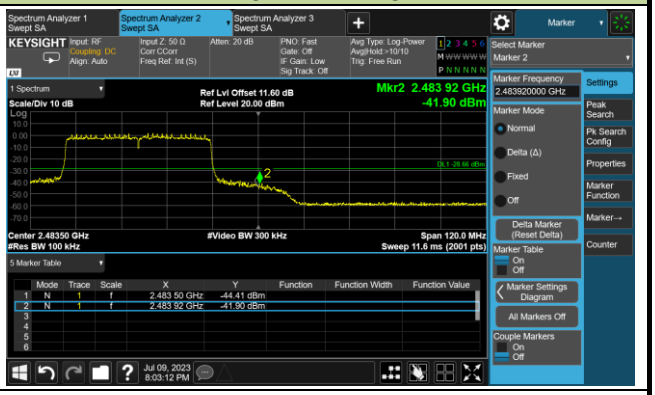


Channel 06 (2437MHz)

100kHz PSD Reference Level



Spurious Emission

802.11ax-HE40 Out-of-Band Emissions – Ant 1	
Channel 09 (2452MHz)	
100kHz PSD Reference Level	High Band Edge
	
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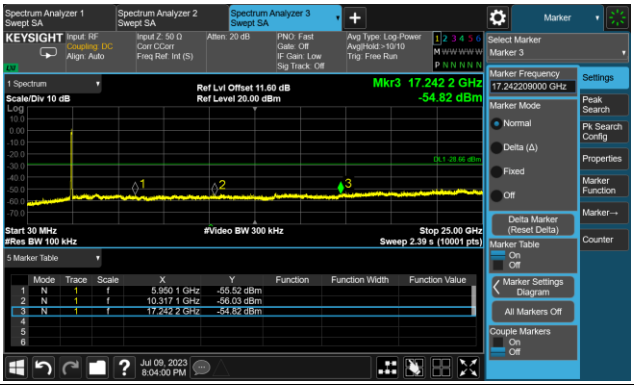
	

A.6 Radiated Spurious Emission Test Result

Radio 0:

Test Site	WZ-AC2	Test Engineer	Ajin Fan
Test Date	2023-06-25	Test Mode:	802.11b
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.		

Test Channel	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
01	7689.5	33.6	11.1	44.7	74.0	-29.3	Peak	Horizontal
	8497.0	32.4	11.6	44.0	74.0	-30.0	Peak	Horizontal
	11548.5	30.8	17.7	48.5	74.0	-25.5	Peak	Horizontal
	7485.5	32.9	12.0	44.9	74.0	-29.1	Peak	Vertical
	8386.5	32.8	11.1	43.9	74.0	-30.1	Peak	Vertical
	12262.5	31.5	17.4	48.9	74.0	-25.1	Peak	Vertical
06	7315.5	39.4	11.4	50.8	74.0	-23.2	Peak	Horizontal
	7315.5	36.3	11.4	47.7	54.0	-6.3	AV	Horizontal
	8208.0	32.6	11.2	43.8	74.0	-30.2	Peak	Horizontal
	11650.5	31.4	17.8	49.2	74.0	-24.8	Peak	Horizontal
	7307.0	40.0	11.4	51.4	74.0	-22.6	Peak	Vertical
	7307.0	35.9	11.4	47.3	54.0	-6.7	AV	Vertical
	8293.0	32.7	11.0	43.7	74.0	-30.3	Peak	Vertical
	11616.5	31.2	17.3	48.5	74.0	-25.5	Peak	Vertical
11	7383.5	37.5	11.6	49.1	74.0	-24.9	Peak	Horizontal
	7383.5	35.1	11.6	46.7	54.0	-7.3	AV	Horizontal
	8174.0	32.2	11.5	43.7	74.0	-30.3	Peak	Horizontal
	11633.5	32.5	17.7	50.2	74.0	-23.8	Peak	Horizontal
	7392.0	37.6	11.7	49.3	74.0	-24.7	Peak	Vertical
	7392.0	37.1	11.7	48.8	54.0	-5.2	AV	Vertical
	8165.5	31.4	11.5	42.9	74.0	-31.1	Peak	Vertical
	11676.0	32.1	17.3	49.4	74.0	-24.6	Peak	Vertical

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

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	WZ-AC2	Test Engineer	Ajin Fan
Test Date	2023-06-25	Test Mode:	802.11g
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.		

Test Channel	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
01	7630.0	32.7	11.6	44.3	74.0	-29.7	Peak	Horizontal
	8199.5	32.1	11.4	43.5	74.0	-30.5	Peak	Horizontal
	11166.0	31.7	16.9	48.6	74.0	-25.4	Peak	Horizontal
	7434.5	31.0	11.9	42.9	74.0	-31.1	Peak	Vertical
	8250.5	32.5	11.0	43.5	74.0	-30.5	Peak	Vertical
	11650.5	31.2	17.8	49.0	74.0	-25.0	Peak	Vertical
06	7307.0	39.5	11.4	50.9	74.0	-23.1	Peak	Horizontal
	7307.0	33.3	11.4	44.7	54.0	-9.3	AV	Horizontal
	8216.5	32.7	11.1	43.8	74.0	-30.2	Peak	Horizontal
	11463.5	31.8	17.4	49.2	74.0	-24.8	Peak	Horizontal
	7307.0	39.3	11.4	50.7	74.0	-23.3	Peak	Vertical
	7307.0	30.9	11.4	42.3	54.0	-11.7	AV	Vertical
	8208.0	30.8	11.2	42.0	74.0	-32.0	Peak	Vertical
	11489.0	30.7	17.7	48.4	74.0	-25.6	Peak	Vertical
11	7383.5	35.3	11.6	46.9	74.0	-27.1	Peak	Horizontal
	8250.5	33.3	11.0	44.3	74.0	-29.7	Peak	Horizontal
	11642.0	31.2	17.9	49.1	74.0	-24.9	Peak	Horizontal
	7383.5	35.7	11.6	47.3	74.0	-26.7	Peak	Vertical
	8276.0	33.2	11.2	44.4	74.0	-29.6	Peak	Vertical
	11727.0	31.0	17.8	48.8	74.0	-25.2	Peak	Vertical

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

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	WZ-AC2	Test Engineer	Ajin Fan
Test Date	2023-06-25	Test Mode:	802.11n-HT20
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.		

Test Channel	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
01	7417.5	33.3	11.7	45.0	74.0	-29.0	Peak	Horizontal
	8344.0	32.5	11.1	43.6	74.0	-30.4	Peak	Horizontal
	11472.0	31.1	17.4	48.5	74.0	-25.5	Peak	Horizontal
	7545.0	32.2	11.9	44.1	74.0	-29.9	Peak	Vertical
	8361.0	32.6	11.1	43.7	74.0	-30.3	Peak	Vertical
	11480.5	31.4	17.5	48.9	74.0	-25.1	Peak	Vertical
06	7511.0	32.6	11.8	44.4	74.0	-29.6	Peak	Horizontal
	8216.5	33.2	11.1	44.3	74.0	-29.7	Peak	Horizontal
	11803.5	31.8	17.6	49.4	74.0	-24.6	Peak	Horizontal
	7536.5	32.8	11.9	44.7	74.0	-29.3	Peak	Vertical
	8327.0	33.2	11.0	44.2	74.0	-29.8	Peak	Vertical
	11625.0	31.3	17.5	48.8	74.0	-25.2	Peak	Vertical
11	7375.0	32.7	11.6	44.3	74.0	-29.7	Peak	Horizontal
	8344.0	32.7	11.1	43.8	74.0	-30.2	Peak	Horizontal
	11897.0	31.3	17.3	48.6	74.0	-25.4	Peak	Horizontal
	7460.0	31.9	12.2	44.1	74.0	-29.9	Peak	Vertical
	8267.5	33.2	11.1	44.3	74.0	-29.7	Peak	Vertical
	11701.5	31.6	17.5	49.1	74.0	-24.9	Peak	Vertical

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

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	WZ-AC2	Test Engineer	Ajin Fan
Test Date	2023-06-25	Test Mode:	802.11n-HT40
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.		

Test Channel	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
03	7664.0	33.3	11.2	44.5	74.0	-29.5	Peak	Horizontal
	8463.0	32.3	11.6	43.9	74.0	-30.1	Peak	Horizontal
	11480.5	31.6	17.5	49.1	74.0	-24.9	Peak	Horizontal
	7502.5	32.9	12.0	44.9	74.0	-29.1	Peak	Vertical
	8216.5	32.5	11.1	43.6	74.0	-30.4	Peak	Vertical
	11650.5	31.7	17.8	49.5	74.0	-24.5	Peak	Vertical
06	7638.5	33.5	11.4	44.9	74.0	-29.1	Peak	Horizontal
	8480.0	32.5	11.6	44.1	74.0	-29.9	Peak	Horizontal
	11616.5	31.6	17.3	48.9	74.0	-25.1	Peak	Horizontal
	7434.5	33.1	11.9	45.0	74.0	-29.0	Peak	Vertical
	8225.0	32.3	11.0	43.3	74.0	-30.7	Peak	Vertical
	11616.5	31.4	17.3	48.7	74.0	-25.3	Peak	Vertical
09	7638.5	33.7	11.4	45.1	74.0	-28.9	Peak	Horizontal
	8165.5	31.1	11.5	42.6	74.0	-31.4	Peak	Horizontal
	11021.5	33.7	16.2	49.9	74.0	-24.1	Peak	Horizontal
	7672.5	33.3	11.1	44.4	74.0	-29.6	Peak	Vertical
	8208.0	32.5	11.2	43.7	74.0	-30.3	Peak	Vertical
	11591.0	31.8	17.3	49.1	74.0	-24.9	Peak	Vertical

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

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	WZ-AC2	Test Engineer	Ajin Fan
Test Date	2023-06-25	Test Mode:	802.11ax-HE20
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.		

Test Channel	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
01	7434.5	33.0	11.9	44.9	74.0	-29.1	Peak	Horizontal
	8276.0	31.8	11.2	43.0	74.0	-31.0	Peak	Horizontal
	11514.5	31.9	17.2	49.1	74.0	-24.9	Peak	Horizontal
	7519.5	33.4	11.7	45.1	74.0	-28.9	Peak	Vertical
	8191.0	33.5	11.5	45.0	74.0	-29.0	Peak	Vertical
	11642.0	31.6	17.9	49.5	74.0	-24.5	Peak	Vertical
06	7315.5	42.0	11.4	53.4	74.0	-20.6	Peak	Horizontal
	7315.5	33.5	11.4	44.9	54.0	-9.1	AV	Horizontal
	8395.0	32.4	11.3	43.7	74.0	-30.3	Peak	Horizontal
	11582.5	31.6	17.5	49.1	74.0	-24.9	Peak	Horizontal
	7307.0	38.3	11.4	49.7	74.0	-24.3	Peak	Vertical
	8352.5	33.0	11.1	44.1	74.0	-29.9	Peak	Vertical
	11582.5	32.5	17.5	50.0	74.0	-24.0	Peak	Vertical
11	7392.0	34.3	11.7	46.0	74.0	-28.0	Peak	Horizontal
	8182.5	32.9	11.5	44.4	74.0	-29.6	Peak	Horizontal
	11650.5	31.1	17.8	48.9	74.0	-25.1	Peak	Horizontal
	7349.5	33.0	11.3	44.3	74.0	-29.7	Peak	Vertical
	8208.0	32.6	11.2	43.8	74.0	-30.2	Peak	Vertical
	11642.0	31.1	17.9	49.0	74.0	-25.0	Peak	Vertical

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

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	WZ-AC2	Test Engineer	Ajin Fan
Test Date	2023-06-25	Test Mode:	802.11ax-HE40
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.		

Test Channel	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
03	7451.5	32.1	12.2	44.3	74.0	-29.7	Peak	Horizontal
	8284.5	33.0	11.1	44.1	74.0	-29.9	Peak	Horizontal
	12288.0	31.7	17.6	49.3	74.0	-24.7	Peak	Horizontal
	7587.5	33.4	11.4	44.8	74.0	-29.2	Peak	Vertical
	8403.5	32.5	11.4	43.9	74.0	-30.1	Peak	Vertical
	11081.0	32.6	16.6	49.2	74.0	-24.8	Peak	Vertical
06	7298.5	38.3	11.3	49.6	74.0	-24.4	Peak	Horizontal
	8454.5	32.5	11.6	44.1	74.0	-29.9	Peak	Horizontal
	11633.5	31.5	17.7	49.2	74.0	-24.8	Peak	Horizontal
	7307.0	36.3	11.4	47.7	74.0	-26.3	Peak	Vertical
	8199.5	32.1	11.4	43.5	74.0	-30.5	Peak	Vertical
	11514.5	32.4	17.2	49.6	74.0	-24.4	Peak	Vertical
09	7366.5	37.9	11.5	49.4	74.0	-24.6	Peak	Horizontal
	8471.5	32.9	11.6	44.5	74.0	-29.5	Peak	Horizontal
	11540.0	31.8	17.5	49.3	74.0	-24.7	Peak	Horizontal
	7545.0	32.8	11.9	44.7	74.0	-29.3	Peak	Vertical
	8123.0	33.5	12.0	45.5	74.0	-28.5	Peak	Vertical
	11548.5	31.5	17.7	49.2	74.0	-24.8	Peak	Vertical

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

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Radio 1:

Test Site	WZ-AC2	Test Engineer	Dick Shen
Test Date	2023-06-23~2023-06-25	Test Mode:	802.11b
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.		

Test Channel	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
01	4825.0	38.0	3.3	41.3	74.0	-32.7	Peak	Horizontal
	7298.5	31.8	11.3	43.1	74.0	-30.9	Peak	Horizontal
	11633.5	32.2	17.7	49.9	74.0	-24.1	Peak	Horizontal
	4825.0	40.6	3.3	43.9	74.0	-30.1	Peak	Vertical
	7536.5	32.9	11.9	44.8	74.0	-29.2	Peak	Vertical
	11489.0	31.7	17.7	49.4	74.0	-24.6	Peak	Vertical
06	7315.5	33.9	11.4	45.3	74.0	-28.7	Peak	Horizontal
	8250.5	33.8	11.0	44.8	74.0	-29.2	Peak	Horizontal
	11540.0	31.3	17.5	48.8	74.0	-25.2	Peak	Horizontal
	7315.5	34.5	11.4	45.9	74.0	-28.1	Peak	Vertical
	8250.5	32.6	11.0	43.6	74.0	-30.4	Peak	Vertical
	11565.5	30.9	17.7	48.6	74.0	-25.4	Peak	Vertical
11	4680.5	35.3	3.7	39.0	74.0	-35.0	Peak	Horizontal
	7383.5	34.2	11.6	45.8	74.0	-28.2	Peak	Horizontal
	11514.5	31.8	17.2	49.0	74.0	-25.0	Peak	Horizontal
	4000.5	37.5	-0.1	37.4	74.0	-36.6	Peak	Vertical
	7383.5	38.0	11.6	49.6	74.0	-24.4	Peak	Vertical
	11642.0	32.1	17.9	50.0	74.0	-24.0	Peak	Vertical

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

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	WZ-AC2	Test Engineer	Ajin Fan
Test Date	2023-06-23~2023-06-25	Test Mode:	802.11g
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.		

Test Channel	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
01	4646.5	34.9	3.5	38.4	74.0	-35.6	Peak	Horizontal
	7494.0	32.9	11.9	44.8	74.0	-29.2	Peak	Horizontal
	11616.5	31.7	17.3	49.0	74.0	-25.0	Peak	Horizontal
	4740.0	34.6	3.7	38.3	74.0	-35.7	Peak	Vertical
	7460.0	33.2	12.2	45.4	74.0	-28.6	Peak	Vertical
	11582.5	31.1	17.5	48.6	74.0	-25.4	Peak	Vertical
06	7502.5	33.5	12.0	45.5	74.0	-28.5	Peak	Horizontal
	8267.5	33.8	11.1	44.9	74.0	-29.1	Peak	Horizontal
	11735.5	31.5	17.7	49.2	74.0	-24.8	Peak	Horizontal
	7307.0	33.1	11.4	44.5	74.0	-29.5	Peak	Vertical
	8463.0	32.9	11.6	44.5	74.0	-29.5	Peak	Vertical
	11965.0	31.8	17.1	48.9	74.0	-25.1	Peak	Vertical
11	4655.0	36.7	3.5	40.2	74.0	-33.8	Peak	Horizontal
	7383.5	33.3	11.6	44.9	74.0	-29.1	Peak	Horizontal
	11557.0	31.4	17.8	49.2	74.0	-24.8	Peak	Horizontal
	4689.0	35.2	3.8	39.0	74.0	-35.0	Peak	Vertical
	7383.5	34.0	11.6	45.6	74.0	-28.4	Peak	Vertical
	11701.5	31.7	17.5	49.2	74.0	-24.8	Peak	Vertical

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

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	WZ-AC2	Test Engineer	Ajin Fan
Test Date	2023-06-25	Test Mode:	802.11n-HT20
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.		

Test Channel	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
01	7477.0	32.3	12.1	44.4	74.0	-29.6	Peak	Horizontal
	8420.5	33.0	11.4	44.4	74.0	-29.6	Peak	Horizontal
	11472.0	32.1	17.4	49.5	74.0	-24.5	Peak	Horizontal
	7307.0	33.4	11.4	44.8	74.0	-29.2	Peak	Vertical
	8276.0	32.3	11.2	43.5	74.0	-30.5	Peak	Vertical
	11506.0	31.9	17.4	49.3	74.0	-24.7	Peak	Vertical
06	7426.0	32.3	11.7	44.0	74.0	-30.0	Peak	Horizontal
	9185.5	32.8	13.3	46.1	74.0	-27.9	Peak	Horizontal
	12194.5	31.9	17.7	49.6	74.0	-24.4	Peak	Horizontal
	7485.5	32.3	12.0	44.3	74.0	-29.7	Peak	Vertical
	8403.5	31.2	11.4	42.6	74.0	-31.4	Peak	Vertical
	11812.0	31.1	17.6	48.7	74.0	-25.3	Peak	Vertical
11	7655.5	33.5	11.2	44.7	74.0	-29.3	Peak	Horizontal
	8369.5	32.2	11.1	43.3	74.0	-30.7	Peak	Horizontal
	11684.5	31.7	17.3	49.0	74.0	-25.0	Peak	Horizontal
	7536.5	33.4	11.9	45.3	74.0	-28.7	Peak	Vertical
	8352.5	32.4	11.1	43.5	74.0	-30.5	Peak	Vertical
	11650.5	31.1	17.8	48.9	74.0	-25.1	Peak	Vertical

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

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	WZ-AC2	Test Engineer	Ajin Fan
Test Date	2023-06-25	Test Mode:	802.11n-HT40
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.		

Test Channel	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
03	7443.0	32.5	12.0	44.5	74.0	-29.5	Peak	Horizontal
	8369.5	32.9	11.1	44.0	74.0	-30.0	Peak	Horizontal
	11540.0	31.6	17.5	49.1	74.0	-24.9	Peak	Horizontal
	7528.0	32.9	11.8	44.7	74.0	-29.3	Peak	Vertical
	8369.5	32.2	11.1	43.3	74.0	-30.7	Peak	Vertical
	11676.0	32.3	17.3	49.6	74.0	-24.4	Peak	Vertical
06	7485.5	32.4	12.0	44.4	74.0	-29.6	Peak	Horizontal
	8403.5	32.4	11.4	43.8	74.0	-30.2	Peak	Horizontal
	11557.0	31.3	17.8	49.1	74.0	-24.9	Peak	Horizontal
	7630.0	33.1	11.6	44.7	74.0	-29.3	Peak	Vertical
	8165.5	30.5	11.5	42.0	74.0	-32.0	Peak	Vertical
	12169.0	31.5	17.3	48.8	74.0	-25.2	Peak	Vertical
09	7460.0	33.1	12.2	45.3	74.0	-28.7	Peak	Horizontal
	8199.5	32.7	11.4	44.1	74.0	-29.9	Peak	Horizontal
	11565.5	31.1	17.7	48.8	74.0	-25.2	Peak	Horizontal
	7536.5	32.9	11.9	44.8	74.0	-29.2	Peak	Vertical
	8216.5	32.1	11.1	43.2	74.0	-30.8	Peak	Vertical
	11973.5	32.0	17.1	49.1	74.0	-24.9	Peak	Vertical

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

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	WZ-AC2	Test Engineer	Ajin Fan
Test Date	2023-06-25	Test Mode:	802.11ax-HE20
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.		

Test Channel	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
01	7383.5	32.3	11.6	43.9	74.0	-30.1	Peak	Horizontal
	8199.5	31.7	11.4	43.1	74.0	-30.9	Peak	Horizontal
	11421.0	32.2	17.3	49.5	74.0	-24.5	Peak	Horizontal
	7604.5	33.2	11.5	44.7	74.0	-29.3	Peak	Vertical
	8395.0	33.5	11.3	44.8	74.0	-29.2	Peak	Vertical
	11557.0	31.5	17.8	49.3	74.0	-24.7	Peak	Vertical
06	7502.5	31.5	12.0	43.5	74.0	-30.5	Peak	Horizontal
	8267.5	32.7	11.1	43.8	74.0	-30.2	Peak	Horizontal
	11540.0	31.3	17.5	48.8	74.0	-25.2	Peak	Horizontal
	7485.5	32.3	12.0	44.3	74.0	-29.7	Peak	Vertical
	8378.0	33.1	11.1	44.2	74.0	-29.8	Peak	Vertical
	11718.5	32.5	17.8	50.3	74.0	-23.7	Peak	Vertical
11	7681.0	33.9	11.1	45.0	74.0	-29.0	Peak	Horizontal
	8293.0	33.2	11.0	44.2	74.0	-29.8	Peak	Horizontal
	11633.5	31.8	17.7	49.5	74.0	-24.5	Peak	Horizontal
	7451.5	32.7	12.2	44.9	74.0	-29.1	Peak	Vertical
	8216.5	33.5	11.1	44.6	74.0	-29.4	Peak	Vertical
	11557.0	31.8	17.8	49.6	74.0	-24.4	Peak	Vertical

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

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	WZ-AC2	Test Engineer	Ajin Fan
Test Date	2023-06-25	Test Mode:	802.11ax-HE40
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.		

Test Channel	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
03	7443.0	32.2	12.0	44.2	74.0	-29.8	Peak	Horizontal
	8454.5	32.7	11.6	44.3	74.0	-29.7	Peak	Horizontal
	12118.0	32.3	17.0	49.3	74.0	-24.7	Peak	Horizontal
	7383.5	32.7	11.6	44.3	74.0	-29.7	Peak	Vertical
	8165.5	33.0	11.5	44.5	74.0	-29.5	Peak	Vertical
	11591.0	32.0	17.3	49.3	74.0	-24.7	Peak	Vertical
06	7315.5	33.0	11.4	44.4	74.0	-29.6	Peak	Horizontal
	8123.0	32.0	12.0	44.0	74.0	-30.0	Peak	Horizontal
	11633.5	31.3	17.7	49.0	74.0	-25.0	Peak	Horizontal
	7477.0	32.6	12.1	44.7	74.0	-29.3	Peak	Vertical
	8165.5	30.9	11.5	42.4	74.0	-31.6	Peak	Vertical
	11081.0	33.0	16.6	49.6	74.0	-24.4	Peak	Vertical
09	7494.0	33.0	11.9	44.9	74.0	-29.1	Peak	Horizontal
	8106.0	32.2	12.0	44.2	74.0	-29.8	Peak	Horizontal
	11727.0	31.6	17.8	49.4	74.0	-24.6	Peak	Horizontal
	7434.5	33.4	11.9	45.3	74.0	-28.7	Peak	Vertical
	8454.5	32.0	11.6	43.6	74.0	-30.4	Peak	Vertical
	11548.5	31.0	17.7	48.7	74.0	-25.3	Peak	Vertical

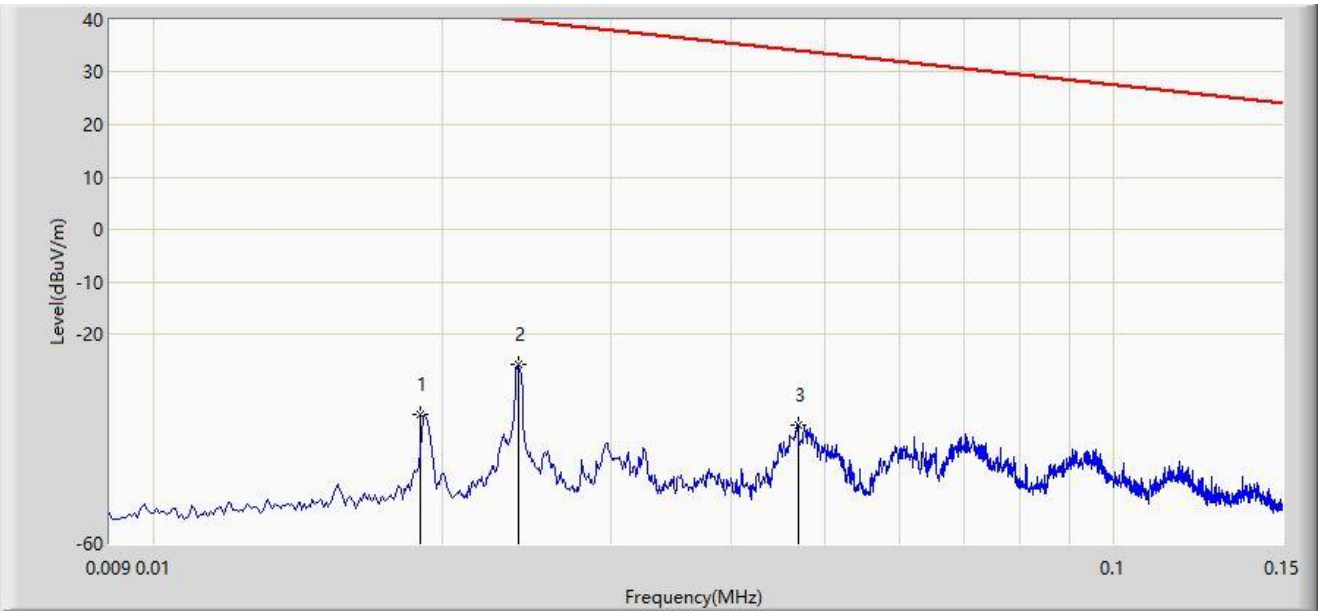
Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

The Result of Radiated Emission 9kHz ~ 30MHz:

Radio 0:

Site: WZ-AC1	Test Date: 2023-07-26
Limit: FCC_Part15.209_RSE	Engineer: Carl Jiang
Probe: FMZB1519_0.009-30MHz	Polarity: Coaxial
EUT: HPE Aruba User Experience Sensor	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at 2412MHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		0.019	-35.279	24.607	-77.292	42.013	-59.886	PK
2	*	0.024	-25.884	34.592	-65.869	39.985	-60.476	PK
3		0.047	-37.361	24.964	-71.512	34.151	-62.325	PK

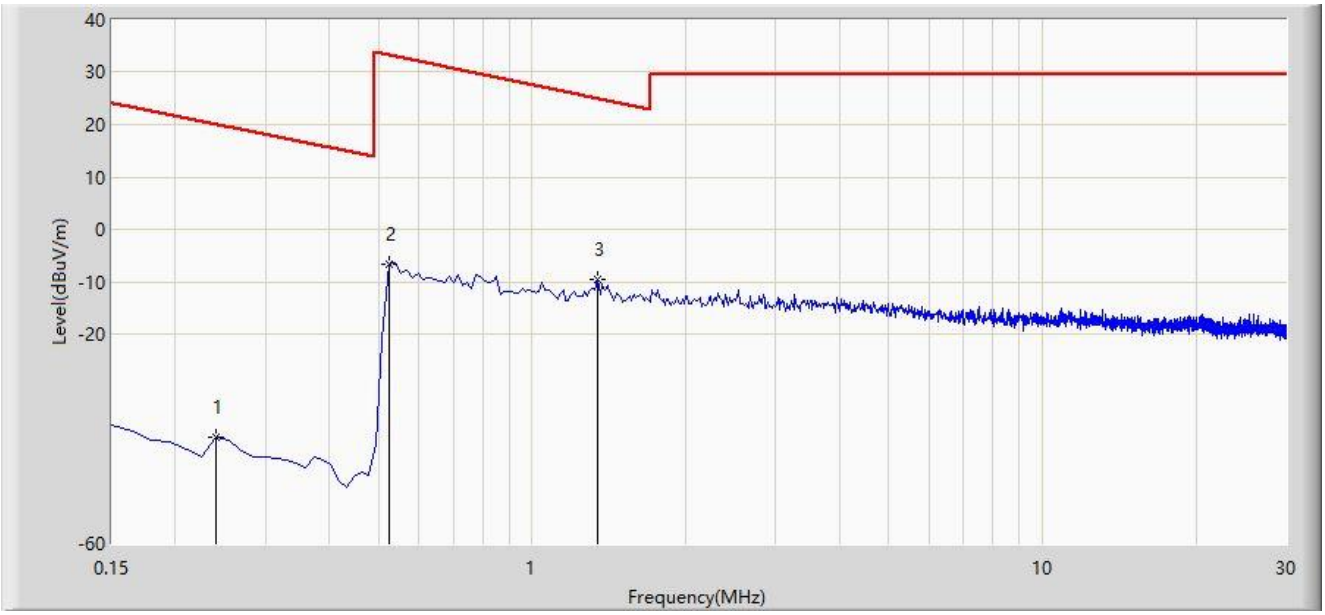
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) + 40log(d1/d2) (dB), d1 = 3m, d2 = 300m (9kHz-490kHz) or 30m (490kHz-30MHz).

Note 4: Quasi-Peak measurement was not performed when peak measure level was lower than the quasi-peak limit.

Site: WZ-AC1	Test Date: 2023-07-26
Limit: FCC_Part15.209_RSE	Engineer: Carl Jiang
Probe: FMZB1519_0.009-30MHz	Polarity: Coaxial
EUT: HPE Aruba User Experience Sensor	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at 2412MHz	



No	Mark	Frequency (MHz)	Measure Level (dBµV/m)	Reading Level (dBµV)	Margin (dB)	Limit (dBµV/m)	Factor (dB/m)	Type
1		0.240	-39.849	22.755	-59.845	19.996	-62.604	PK
2		0.523	-6.669	15.728	-39.904	33.235	-22.397	PK
3	*	1.344	-9.560	12.769	-34.621	25.061	-22.329	PK

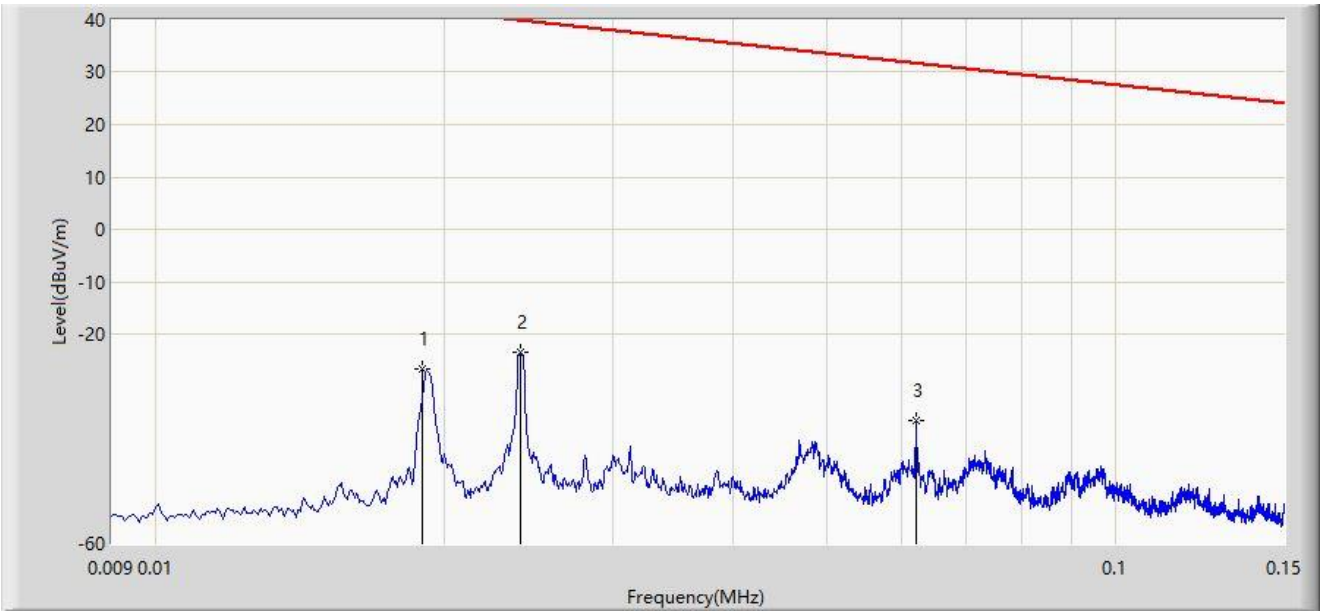
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) + 40log(d1/d2) (dB), d1 = 3m, d2 = 300m (9kHz-490kHz) or 30m (490kHz-30MHz).

Note 4: Quasi-Peak measurement was not performed when peak measure level was lower than the quasi-peak limit.

Site: WZ-AC1	Test Date: 2023-07-26
Limit: FCC_Part15.209_RSE	Engineer: Carl Jiang
Probe: FMZB1519_0.009-30MHz	Polarity: Coplanar
EUT: HPE Aruba User Experience Sensor	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at 2412MHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		0.019	-26.760	33.126	-68.773	42.013	-59.886	PK
2	*	0.024	-23.418	37.058	-63.403	39.985	-60.476	PK
3		0.062	-36.553	25.922	-68.299	31.746	-62.475	PK

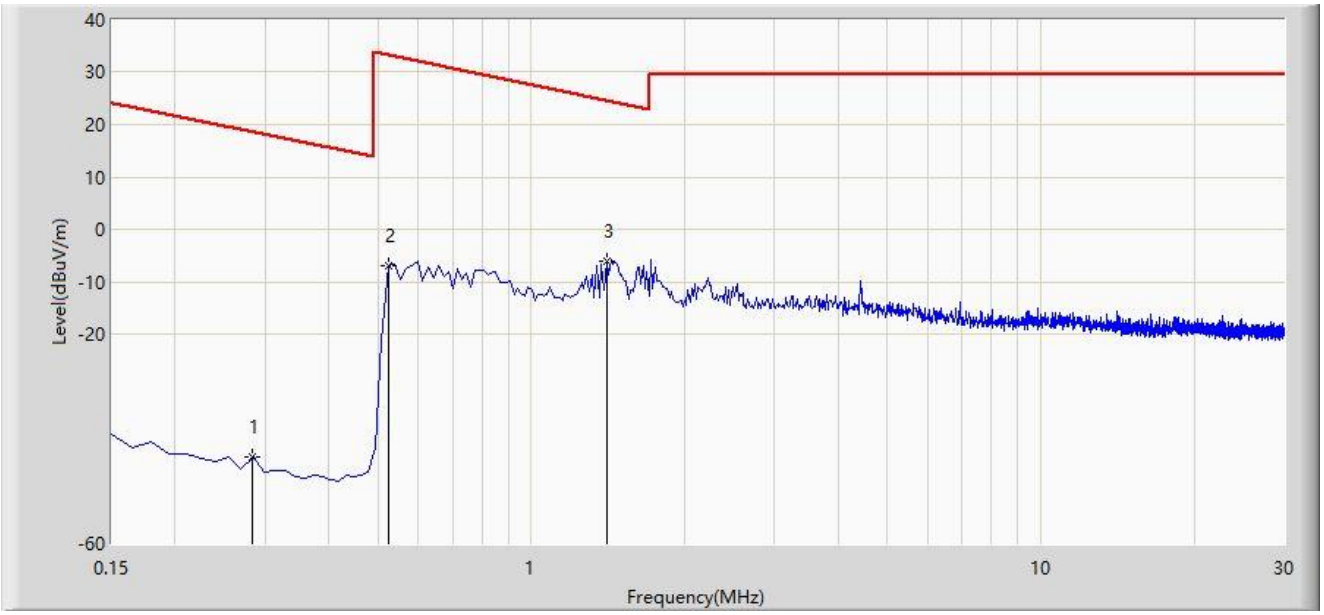
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) + 40log(d1/d2) (dB), d1 = 3m, d2 = 300m (9kHz-490kHz) or 30m (490kHz-30MHz).

Note 4: Quasi-Peak measurement was not performed when peak measure level was lower than the quasi-peak limit.

Site: WZ-AC1	Test Date: 2023-07-26
Limit: FCC_Part15.209_RSE	Engineer: Carl Jiang
Probe: FMZB1519_0.009-30MHz	Polarity: Coplanar
EUT: HPE Aruba User Experience Sensor	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at 2412MHz	



No	Mark	Frequency (MHz)	Measure Level (dBµV/m)	Reading Level (dBµV)	Margin (dB)	Limit (dBµV/m)	Factor (dB/m)	Type
1		0.284	-43.495	19.087	-62.030	18.535	-62.582	PK
2		0.523	-6.872	15.525	-40.107	33.235	-22.397	PK
3	*	1.404	-5.979	16.357	-30.661	24.682	-22.335	PK

Note 1: " * ", means this data is the worst emission level.

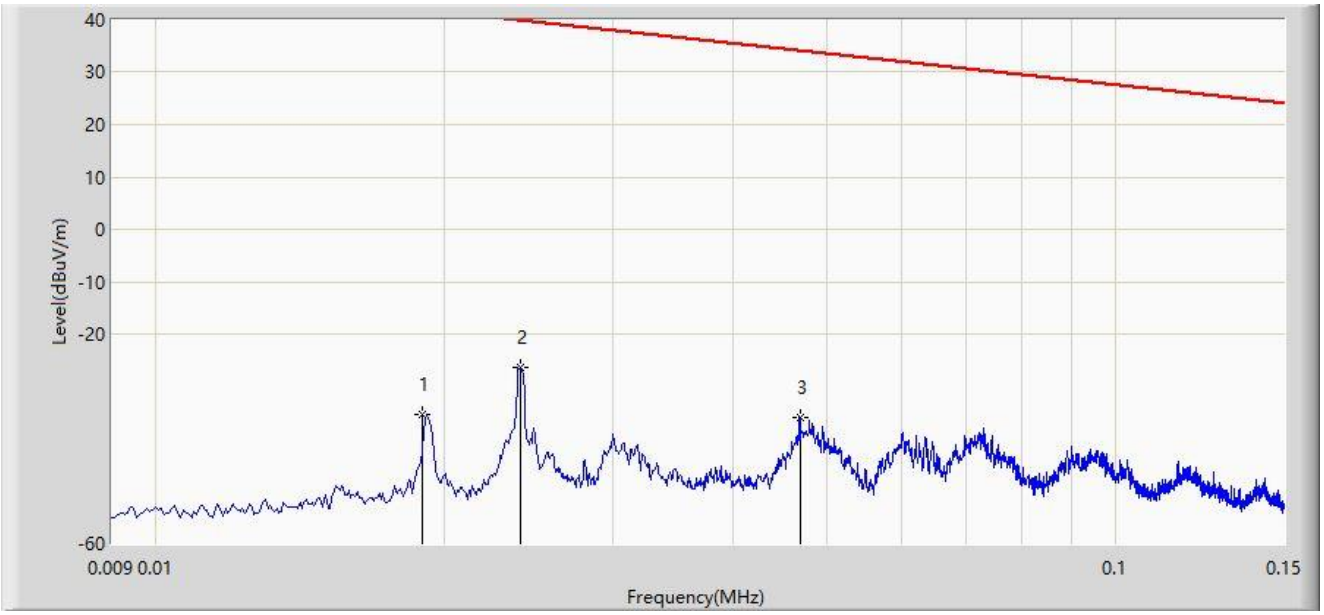
Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) + 40log(d1/d2) (dB), d1 = 3m, d2 = 300m (9kHz-490kHz) or 30m (490kHz-30MHz).

Note 4: Quasi-Peak measurement was not performed when peak measure level was lower than the quasi-peak limit.

Radio 1:

Site: WZ-AC1	Test Date: 2023-07-26
Limit: FCC_Part15.209_RSE	Engineer: Carl Jiang
Probe: FMZB1519_0.009-30MHz	Polarity: Coaxial
EUT: HPE Aruba User Experience Sensor	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at 2412MHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		0.019	-35.265	24.621	-77.278	42.013	-59.886	PK
2	*	0.024	-26.500	33.976	-66.485	39.985	-60.476	PK
3		0.047	-35.890	26.435	-70.041	34.151	-62.325	PK

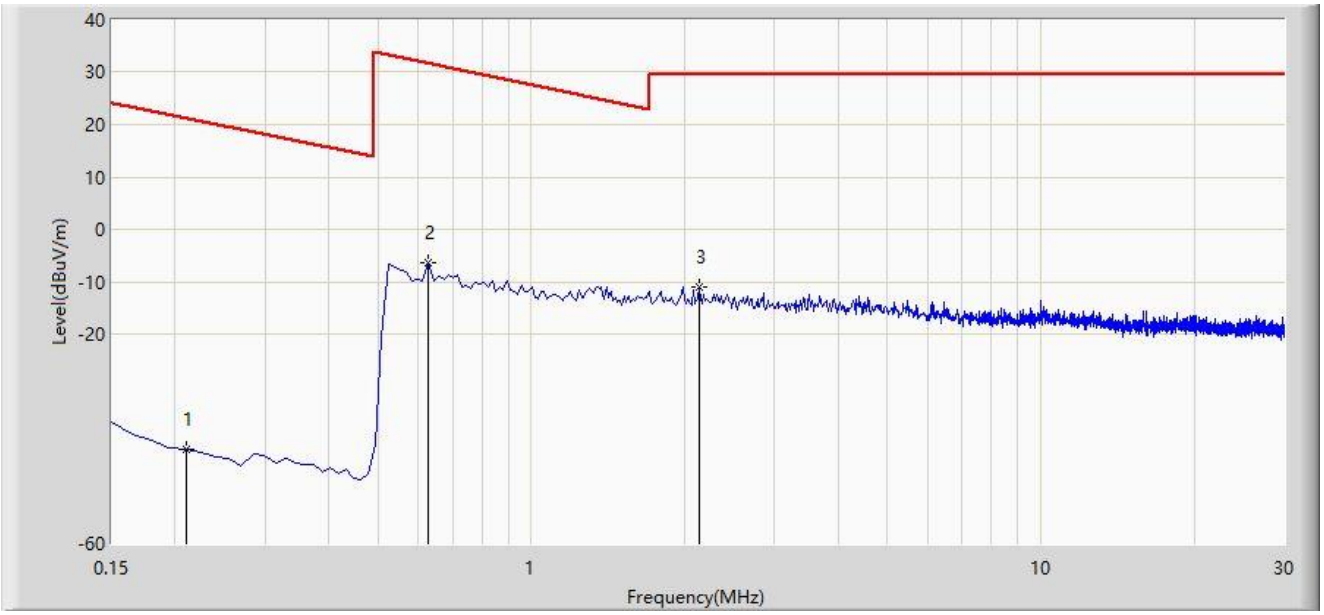
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) + 40log(d1/d2) (dB), d1 = 3m, d2 = 300m (9kHz-490kHz) or 30m (490kHz-30MHz).

Note 4: Quasi-Peak measurement was not performed when peak measure level was lower than the quasi-peak limit.

Site: WZ-AC1	Test Date: 2023-07-26
Limit: FCC_Part15.209_RSE	Engineer: Carl Jiang
Probe: FMZB1519_0.009-30MHz	Polarity: Coaxial
EUT: HPE Aruba User Experience Sensor	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at 2412MHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		0.210	-41.924	20.692	-63.080	21.155	-62.616	PK
2	*	0.628	-6.339	16.009	-37.990	31.651	-22.348	PK
3		2.135	-11.022	11.365	-40.522	29.500	-22.387	PK

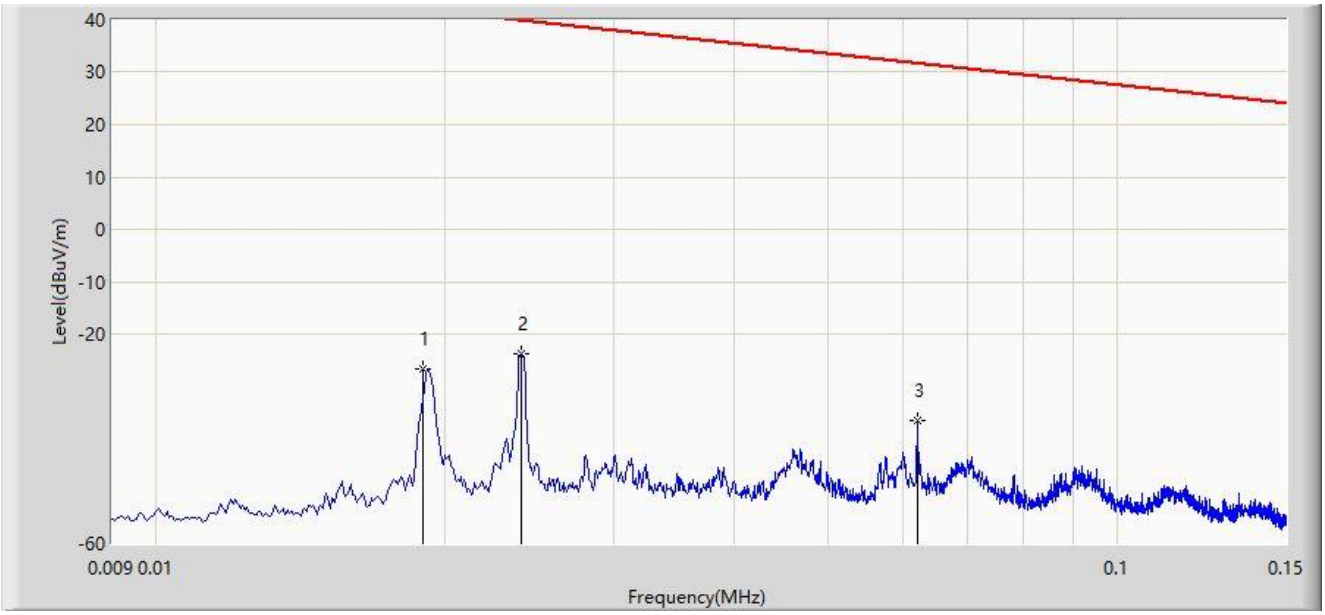
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) + 40log(d1/d2) (dB), d1 = 3m, d2 = 300m (9kHz-490kHz) or 30m (490kHz-30MHz).

Note 4: Quasi-Peak measurement was not performed when peak measure level was lower than the quasi-peak limit.

Site: WZ-AC1	Test Date: 2023-07-26
Limit: FCC_Part15.209_RSE	Engineer: Carl Jiang
Probe: FMZB1519_0.009-30MHz	Polarity: Coplanar
EUT: HPE Aruba User Experience Sensor	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at 2412MHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		0.019	-26.791	33.095	-68.804	42.013	-59.886	PK
2	*	0.024	-23.666	36.810	-63.651	39.985	-60.476	PK
3		0.062	-36.634	25.841	-68.380	31.746	-62.475	PK

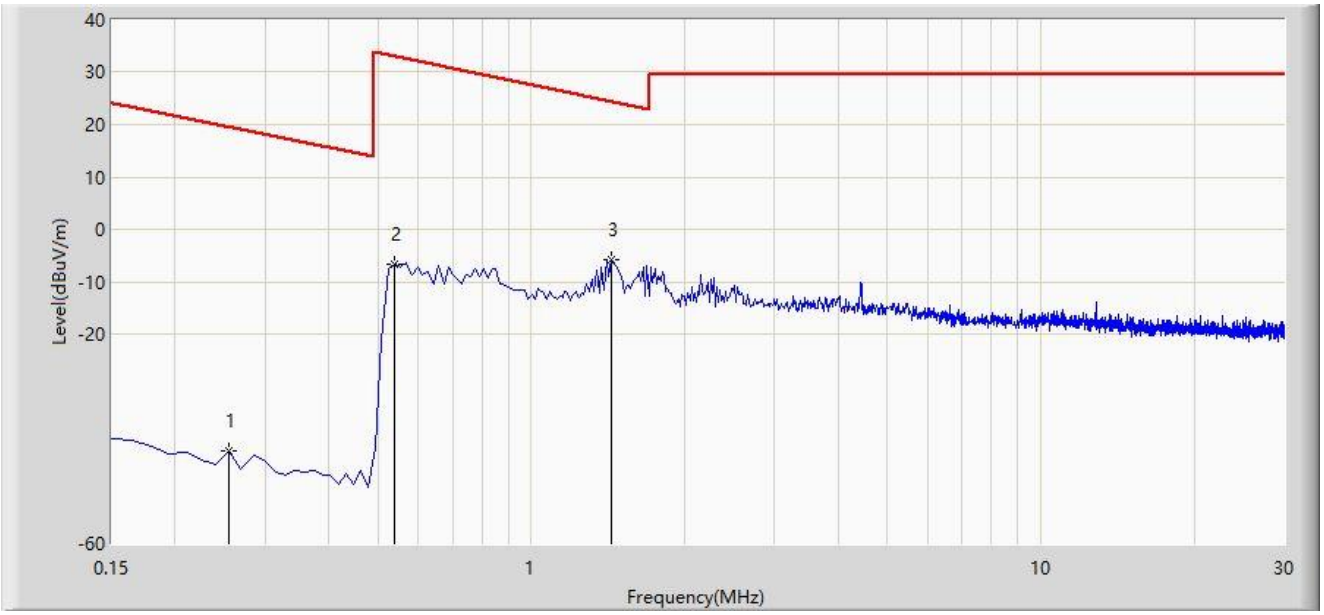
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) + 40log(d1/d2) (dB), d1 = 3m, d2 = 300m (9kHz-490kHz) or 30m (490kHz-30MHz).

Note 4: Quasi-Peak measurement was not performed when peak measure level was lower than the quasi-peak limit.

Site: WZ-AC1	Test Date: 2023-07-26
Limit: FCC_Part15.209_RSE	Engineer: Carl Jiang
Probe: FMZB1519_0.009-30MHz	Polarity: Coplanar
EUT: HPE Aruba User Experience Sensor	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at 2412MHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		0.254	-42.401	20.196	-61.906	19.504	-62.597	PK
2		0.538	-6.702	15.687	-39.693	32.991	-22.390	PK
3	*	1.434	-5.731	16.608	-30.230	24.499	-22.339	PK

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

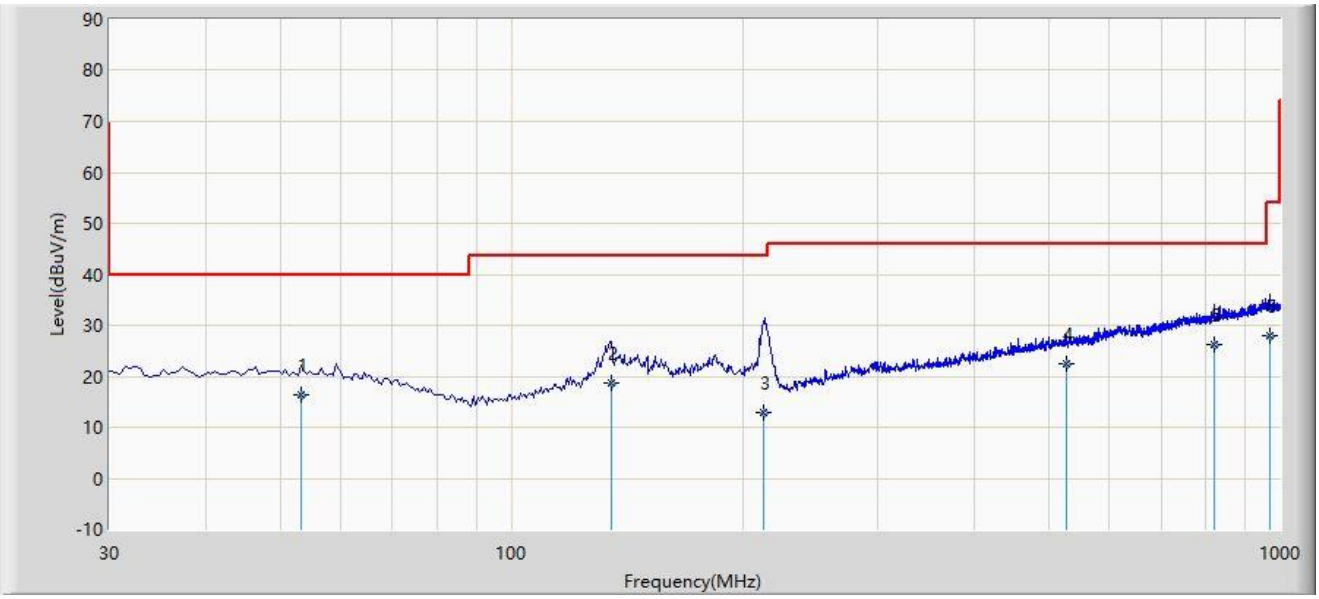
Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) + 40log(d1/d2) (dB), d1 = 3m, d2 = 300m (9kHz-490kHz) or 30m (490kHz-30MHz).

Note 4: Quasi-Peak measurement was not performed when peak measure level was lower than the quasi-peak limit.

The Result of Radiated Emission below 1GHz:

Radio 0:

Site: WZ-AC1	Test Date: 2023-08-11
Limit: FCC_Part15.209_RSE(3m)	Engineer: Ajin Fan
Probe: VULB 9168_25-2000MHz	Polarity: Horizontal
EUT: HPE Aruba User Experience Sensor	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at 2412MHz	



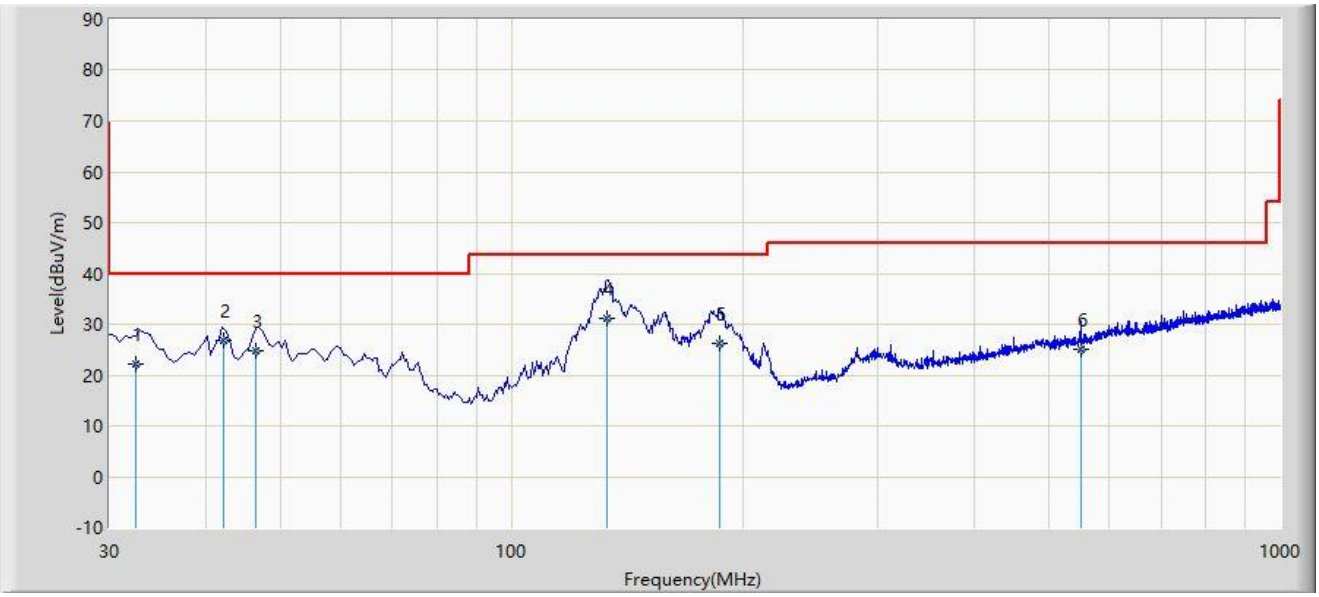
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		53.280	16.379	-2.150	-23.621	40.000	18.530	QP
2		135.000	18.651	1.360	-24.849	43.500	17.292	QP
3		213.000	12.853	-2.050	-30.647	43.500	14.903	QP
4		526.300	22.525	-1.260	-23.475	46.000	23.785	QP
5	*	821.400	26.093	-2.690	-19.907	46.000	28.782	QP
6		967.990	28.051	-2.130	-25.949	54.000	30.181	QP

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: WZ-AC1	Test Date: 2023-08-11
Limit: FCC_Part15.209_RSE(3m)	Engineer: Ajin Fan
Probe: VULB 9168_25-2000MHz	Polarity: Vertical
EUT: HPE Aruba User Experience Sensor	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at 2412MHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		32.460	22.097	4.746	-17.903	40.000	17.351	QP
2		42.270	26.895	8.639	-13.105	40.000	18.256	QP
3		46.530	24.763	6.250	-15.237	40.000	18.513	QP
4	*	133.200	31.268	14.120	-12.232	43.500	17.148	QP
5		186.230	26.325	10.260	-17.175	43.500	16.064	QP
6		550.000	25.113	1.008	-20.887	46.000	24.105	QP

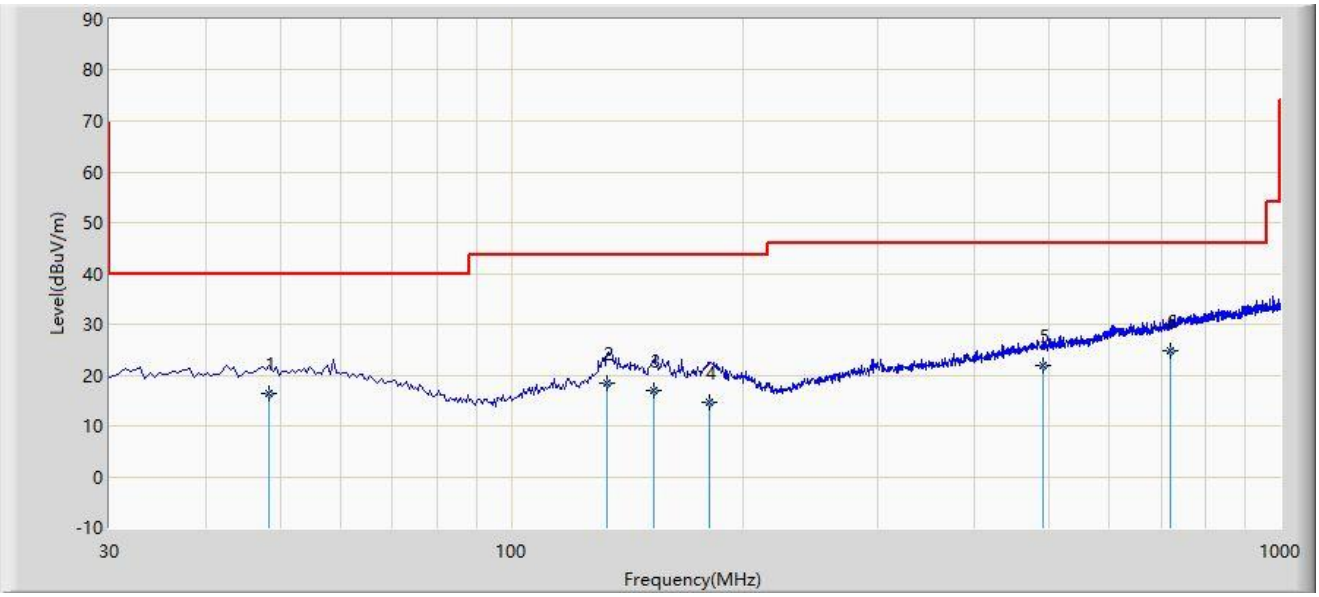
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Radio 1:

Site: WZ-AC1	Test Date: 2023-08-11
Limit: FCC_Part15.209_RSE(3m)	Engineer: Ajin Fan
Probe: VULB 9168_25-2000MHz	Polarity: Horizontal
EUT: HPE Aruba User Experience Sensor	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at 2412MHz	



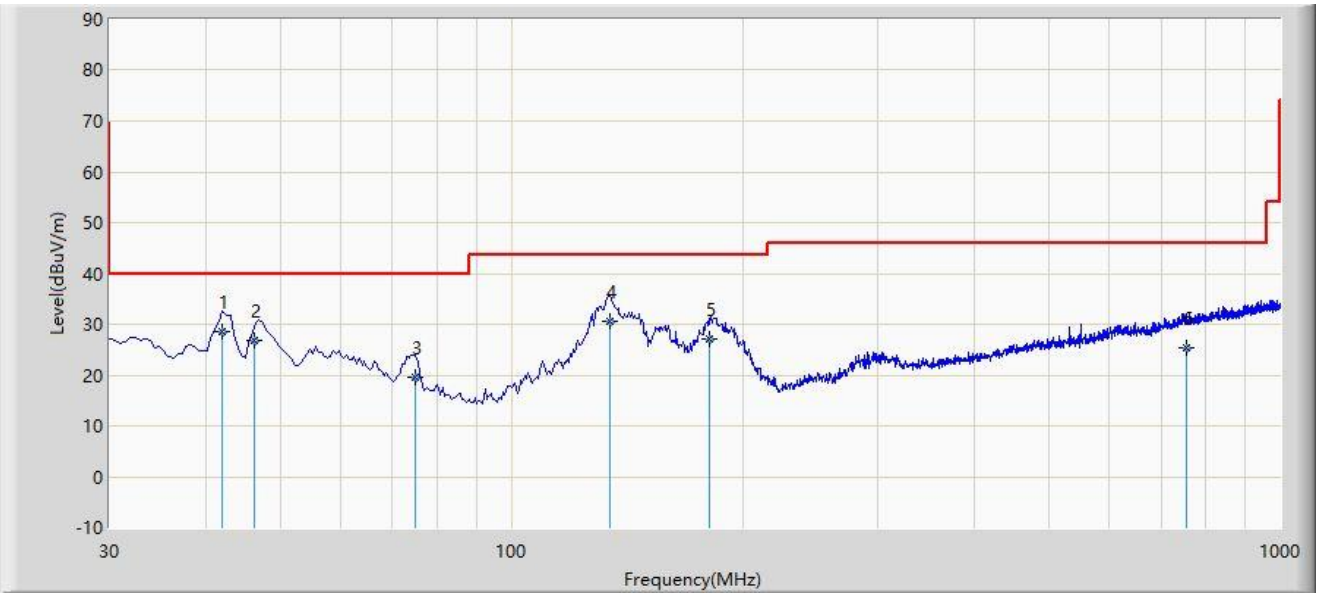
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		48.420	16.404	-2.160	-23.596	40.000	18.563	QP
2		133.270	18.363	1.210	-25.137	43.500	17.153	QP
3		153.210	16.871	-1.360	-26.629	43.500	18.230	QP
4		181.260	14.664	-2.060	-28.836	43.500	16.724	QP
5		492.390	21.855	-1.240	-24.145	46.000	23.095	QP
6	*	720.360	24.901	-2.150	-21.099	46.000	27.052	QP

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: WZ-AC1	Test Date: 2023-08-11
Limit: FCC_Part15.209_RSE(3m)	Engineer: Ajin Fan
Probe: VULB 9168_25-2000MHz	Polarity: Vertical
EUT: HPE Aruba User Experience Sensor	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at 2412MHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	42.120	28.492	10.250	-11.508	40.000	18.242	QP
2		46.390	26.899	8.390	-13.101	40.000	18.508	QP
3		75.120	19.495	4.060	-20.505	40.000	15.435	QP
4		134.260	30.438	13.210	-13.062	43.500	17.228	QP
5		181.210	27.020	10.290	-16.480	43.500	16.731	QP
6		755.230	25.349	-2.690	-20.651	46.000	28.039	QP

Note 1: " * ", means this data is the worst emission level.

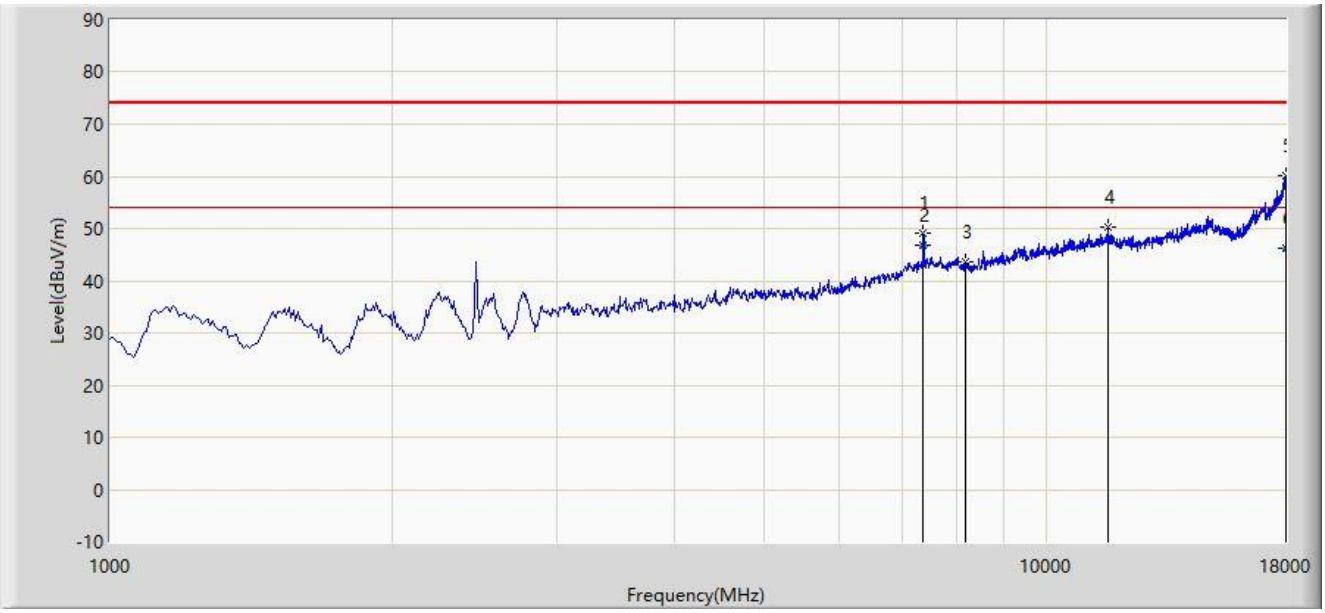
Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

The Result of Radiated Emission of 1GHz ~ 18GHz:

Radio 0:

Site: WZ-AC2	Test Date: 2023-06-25
Limit: FCC_Part15.209_RSE	Engineer: Ajin Fan
Probe: BBHA9120D_1457_1-18GHz	Polarity: Horizontal
EUT: HPE Aruba User Experience Sensor	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at 2462MHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		7383.500	49.113	37.474	-24.887	74.000	11.639	PK
2	*	7383.500	46.710	35.071	-7.290	54.000	11.639	AV
3		8174.000	43.715	32.223	-30.285	74.000	11.492	PK
4		11633.500	50.195	32.490	-23.805	74.000	17.705	PK
5		17974.500	60.163	31.982	-13.837	74.000	28.181	PK
6		17974.500	46.141	17.960	-7.859	54.000	28.181	AV

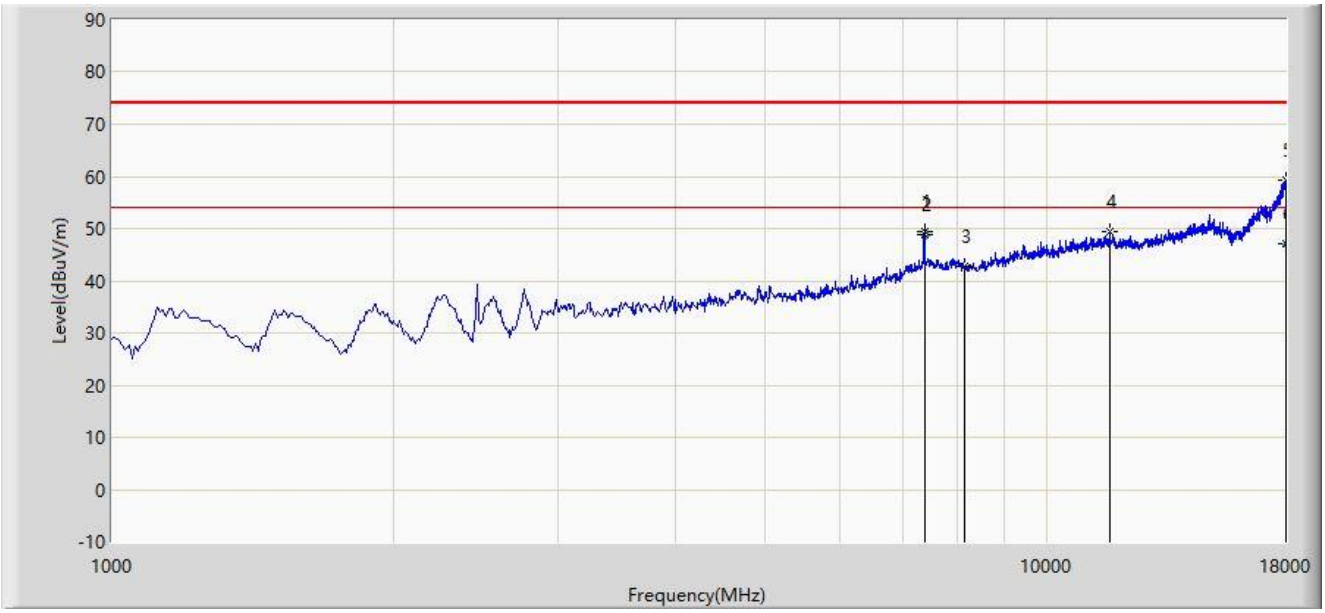
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Note 4: Average measurement was not performed when peak measure level was lower than the average limit.

Site: WZ-AC2	Test Date: 2023-06-25
Limit: FCC_Part15.209_RSE	Engineer: Ajin Fan
Probe: BBHA9120D_1457_1-18GHz	Polarity: Vertical
EUT: HPE Aruba User Experience Sensor	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at 2462MHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		7392.000	49.297	37.562	-24.703	74.000	11.735	PK
2	*	7392.000	48.878	37.143	-5.122	54.000	11.735	AV
3		8165.500	42.874	31.411	-31.126	74.000	11.462	PK
4		11676.000	49.316	32.050	-24.684	74.000	17.266	PK
5		17983.000	59.188	30.688	-14.812	74.000	28.500	PK
6		17983.000	47.200	18.700	-6.800	54.000	28.500	AV

Note 1: " * ", means this data is the worst emission level.

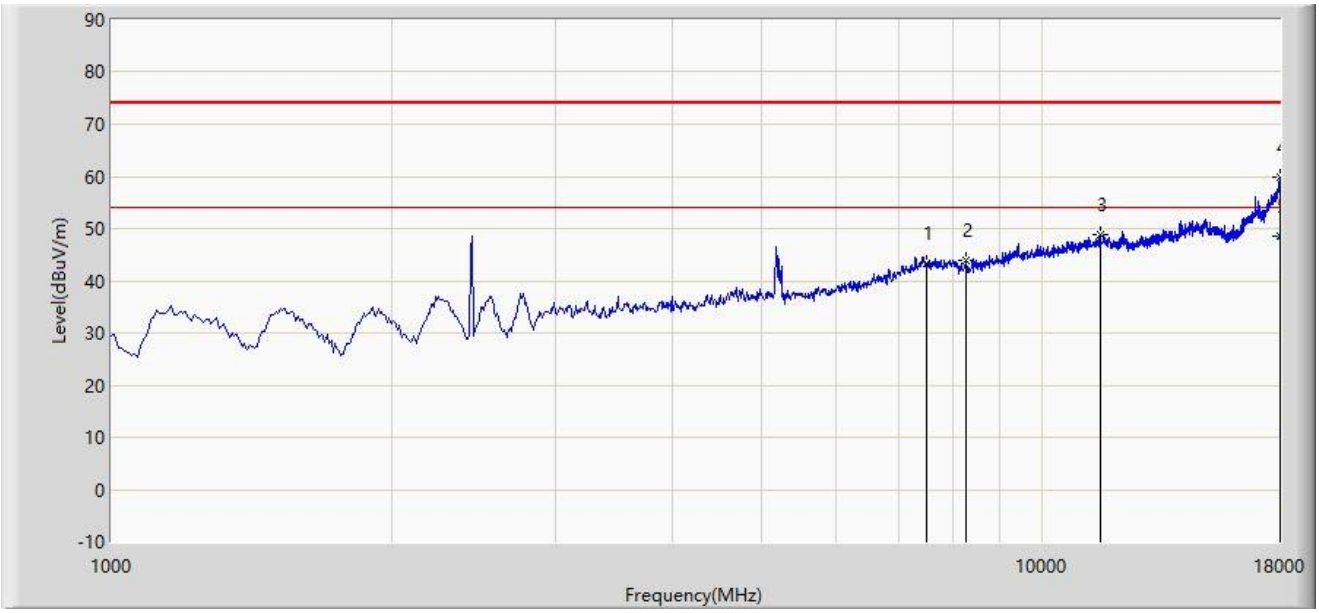
Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Note 4: Average measurement was not performed when peak measure level was lower than the average limit.

Radio 1:

Site: WZ-AC2	Test Date: 2023-06-25
Limit: FCC_Part15.209_RSE	Engineer: Dick Shen
Probe: BBHA9120D_1457_1-18GHz	Polarity: Horizontal
EUT: HPE Aruba User Experience Sensor	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ax-HE20 at 2437MHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		7502.500	43.476	31.524	-30.524	74.000	11.952	PK
2		8267.500	43.872	32.734	-30.128	74.000	11.138	PK
3		11540.000	48.811	31.325	-25.189	74.000	17.486	PK
4		17983.000	59.792	31.292	-14.208	74.000	28.500	PK
5	*	17983.000	48.514	20.014	-5.486	54.000	28.500	AV

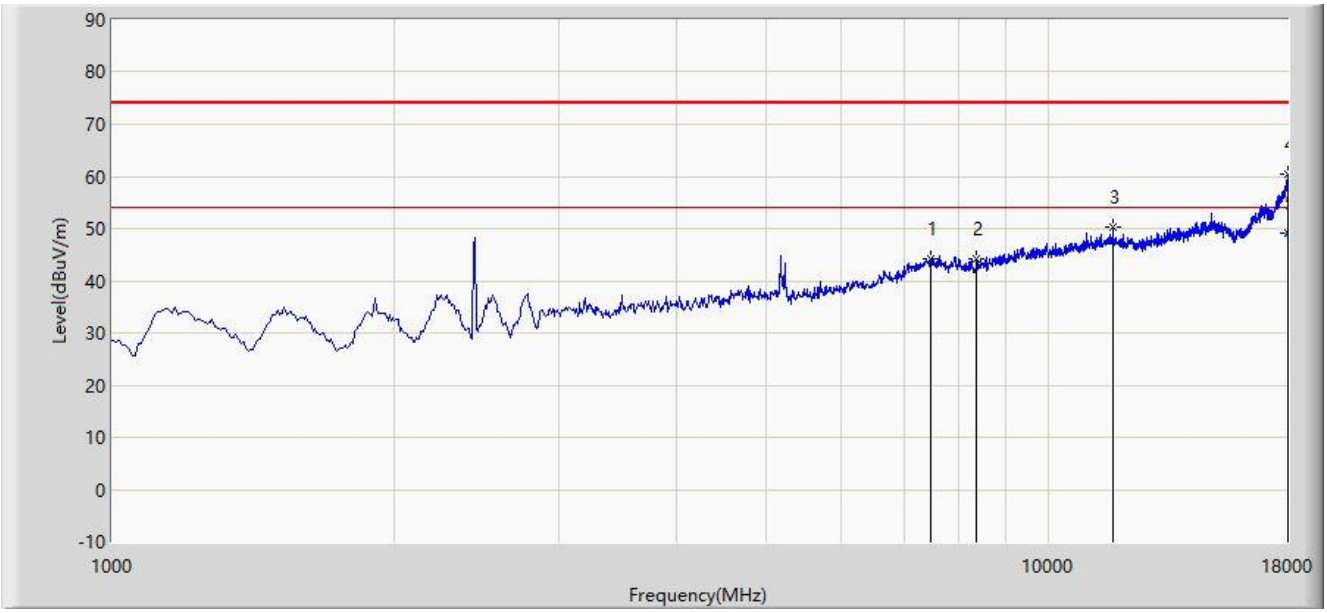
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Note 4: Average measurement was not performed when peak measure level was lower than the average limit.

Site: WZ-AC2	Test Date: 2023-06-25
Limit: FCC_Part15.209_RSE	Engineer: Dick Shen
Probe: BBHA9120D_1457_1-18GHz	Polarity: Vertical
EUT: HPE Aruba User Experience Sensor	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ax-HE20 at 2437MHz	



No	Mark	Frequency (MHz)	Measure Level (dBµV/m)	Reading Level (dBµV)	Margin (dB)	Limit (dBµV/m)	Factor (dB/m)	Type
1		7485.500	44.234	32.261	-29.766	74.000	11.973	PK
2		8378.000	44.192	33.141	-29.808	74.000	11.051	PK
3		11718.500	50.255	32.454	-23.745	74.000	17.801	PK
4		17974.500	60.428	32.247	-13.572	74.000	28.181	PK
5	*	17974.500	49.216	21.035	-4.784	54.000	28.181	AV

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB/m).

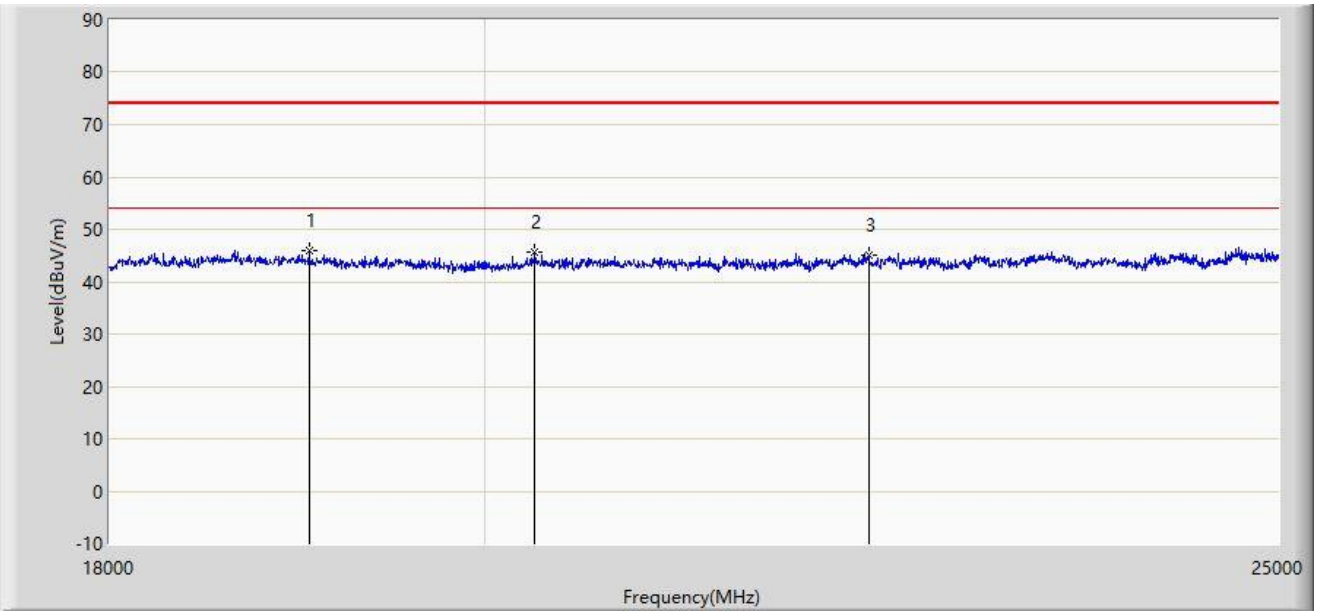
Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Note 4: Average measurement was not performed when peak measure level was lower than the average limit.

The Result of Radiated Emission 18G ~ 25GHz:

Radio 0:

Site: WZ-AC2	Test Date: 2023-08-13
Limit: FCC_Part15.209_RSE(3m) 74	Engineer: Dick Shen
Probe: BBHA9170_993_18-40GHz	Polarity: Horizontal
EUT: HPE Aruba User Experience Sensor	Power: AC 120V/60Hz
Note: Transmit by 802.11b at 2412MHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	19039.500	45.813	56.009	-28.187	74.000	-10.196	PK
2		20285.500	45.650	55.437	-28.350	74.000	-9.787	PK
3		22280.500	45.160	52.812	-28.840	74.000	-7.652	PK

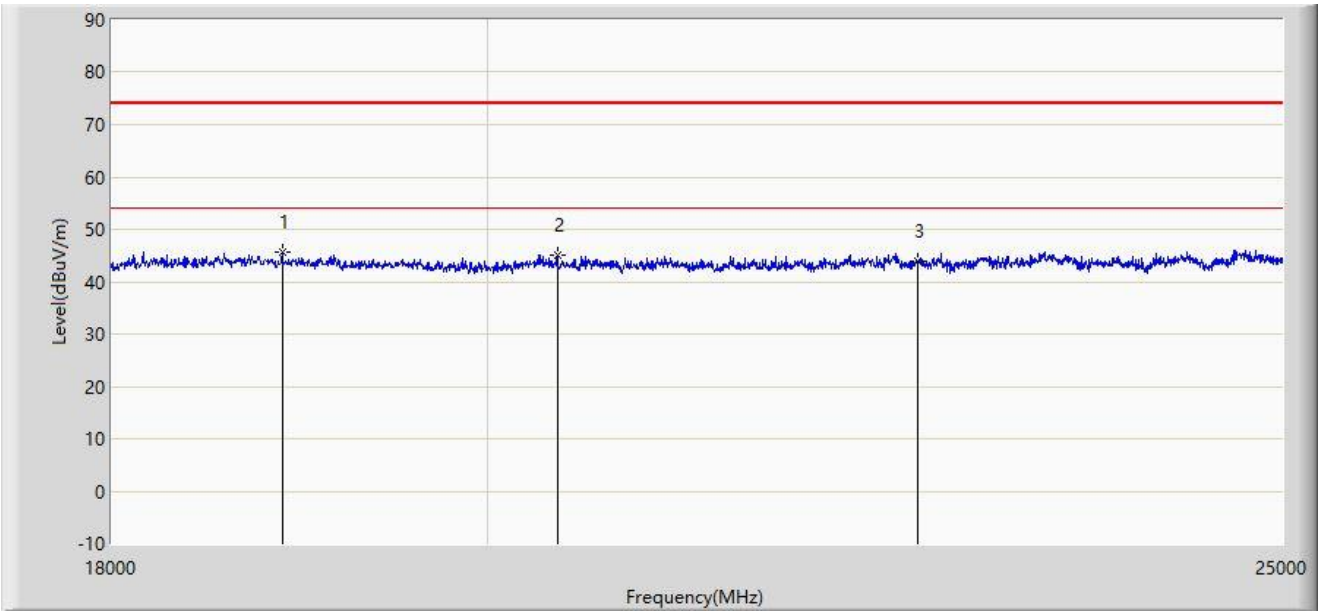
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Note 4: Average measurement was not performed when peak measure level was lower than the average limit.

Site: WZ-AC2	Test Date: 2023-08-13
Limit: FCC_Part15.209_RSE(3m) 74	Engineer: Dick Shen
Probe: BBHA9170_993_18-40GHz	Polarity: Vertical
EUT: HPE Aruba User Experience Sensor	Power: AC 120V/60Hz
Note: Transmit by 802.11b at 2412MHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	18885.500	45.588	56.314	-28.412	74.000	-10.726	PK
2		20397.500	44.970	54.794	-29.030	74.000	-9.824	PK
3		22574.500	43.861	51.462	-30.139	74.000	-7.602	PK

Note 1: " * ", means this data is the worst emission level.

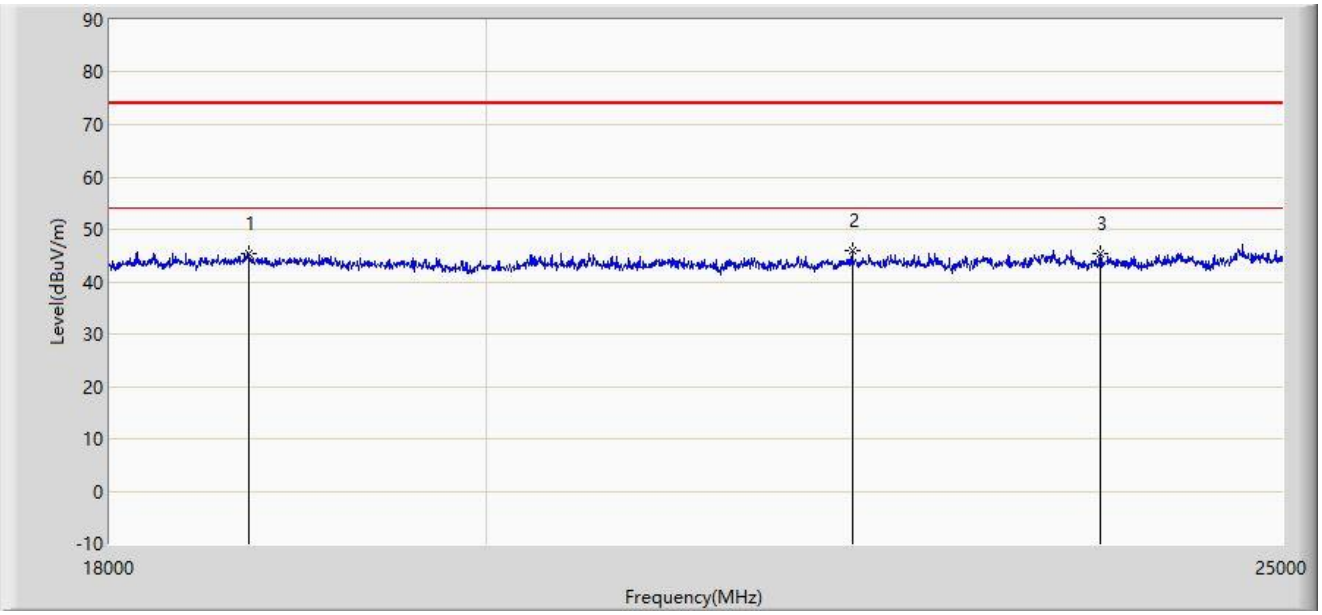
Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Note 4: Average measurement was not performed when peak measure level was lower than the average limit.

Radio 1:

Site: WZ-AC2	Test Date: 2023-08-13
Limit: FCC_Part15.209_RSE(3m) 74	Engineer: Dick Shen
Probe: BBHA9170_993_18-40GHz	Polarity: Horizontal
EUT: HPE Aruba User Experience Sensor	Power: AC 120V/60Hz
Note: Transmit by 802.11b at 2412MHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		18717.500	45.405	56.057	-28.595	74.000	-10.652	PK
2	*	22161.500	45.802	53.839	-28.198	74.000	-8.038	PK
3		23761.000	45.278	52.785	-28.722	74.000	-7.506	PK

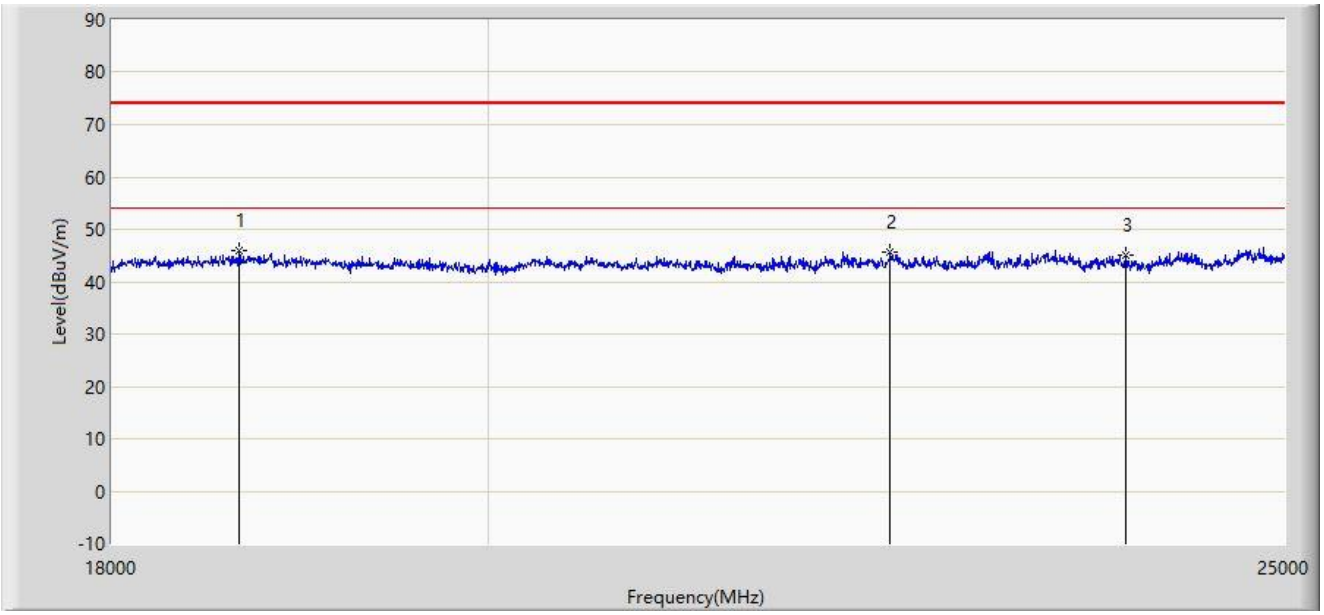
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Note 4: Average measurement was not performed when peak measure level was lower than the average limit.

Site: WZ-AC2	Test Date: 2023-08-13
Limit: FCC_Part15.209_RSE(3m) 74	Engineer: Dick Shen
Probe: BBHA9170_993_18-40GHz	Polarity: Vertical
EUT: HPE Aruba User Experience Sensor	Power: AC 120V/60Hz
Note: Transmit by 802.11b at 2412MHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	18654.500	45.888	56.348	-28.112	74.000	-10.460	PK
2		22389.000	45.649	53.747	-28.351	74.000	-8.098	PK
3		23911.500	45.189	52.626	-28.811	74.000	-7.437	PK

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Note 4: Average measurement was not performed when peak measure level was lower than the average limit.

Spot Check Test Data:

Radio 0:

Test Site	WZ-AC1	Test Engineer	Ajin Fan
Test Date	2023-08-10	Test Mode:	802.11b
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.		

Test Channel	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
11	8267.5	35.7	7.9	43.6	74.0	-30.4	Peak	Horizontal
	12271.0	35.5	12.2	47.7	74.0	-26.3	Peak	Horizontal
	15841.0	36.6	14.2	50.8	74.0	-23.2	Peak	Horizontal
	8471.5	35.5	8.4	43.9	74.0	-30.1	Peak	Vertical
	11948.0	35.5	11.8	47.3	74.0	-26.7	Peak	Vertical
	15934.5	36.1	14.5	50.6	74.0	-23.4	Peak	Vertical
Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m) Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)								

Radio 1:

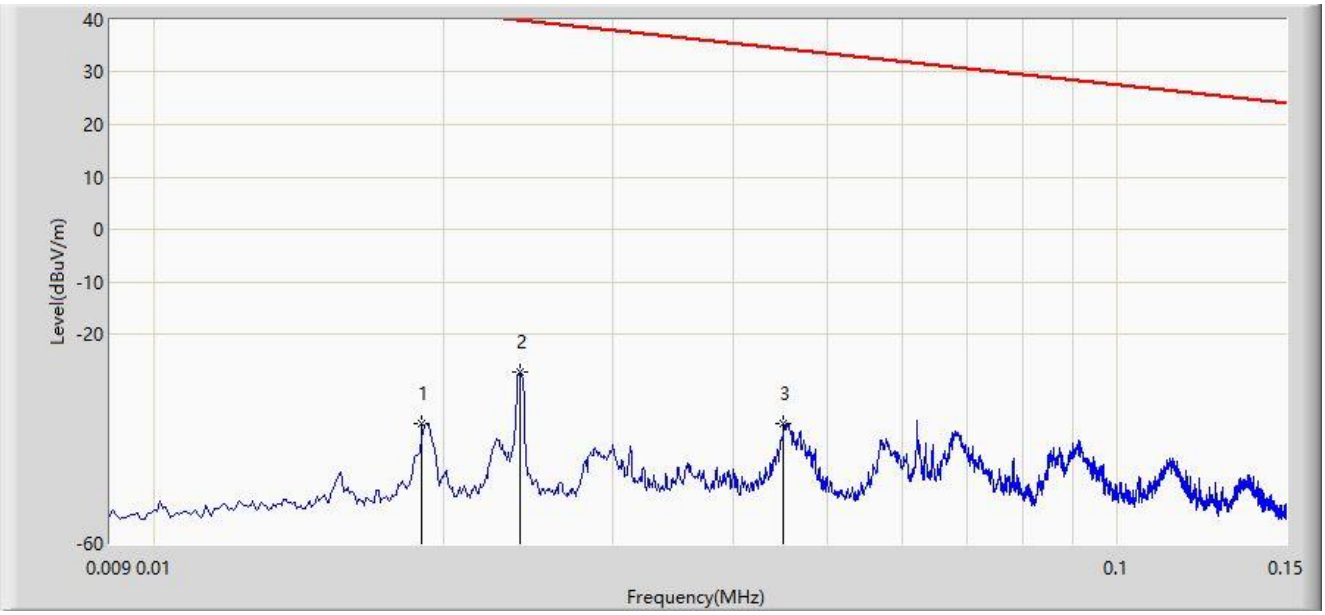
Test Site	WZ-AC1	Test Engineer	Ajin Fan
Test Date	2023-08-10	Test Mode:	802.11ax-HE20
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Test Channel	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
06	8446.0	35.9	8.3	44.2	74.0	-29.8	Peak	Horizontal
	12432.5	36.6	12.5	49.1	74.0	-24.9	Peak	Horizontal
	15739.0	36.4	14.3	50.7	74.0	-23.3	Peak	Horizontal
	7715.0	36.8	7.9	44.7	74.0	-29.3	Peak	Vertical
	12279.5	35.6	12.1	47.7	74.0	-26.3	Peak	Vertical
	15577.5	36.4	13.9	50.3	74.0	-23.7	Peak	Vertical
Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m) Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)								

The Result of Radiated Emission 9kHz ~ 30MHz:

Radio 0:

Site: WZ-AC1	Test Date: 2023-07-26
Limit: FCC_Part15.209_RSE	Engineer: Carl Jiang
Probe: FMZB1519_0.009-30MHz	Polarity: Coaxial
EUT: HPE Aruba User Experience Sensor	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at 2412MHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		0.019	-37.025	22.861	-79.038	42.013	-59.886	PK
2	*	0.024	-27.323	33.153	-67.308	39.985	-60.476	PK
3		0.045	-37.033	25.272	-71.561	34.528	-62.305	PK

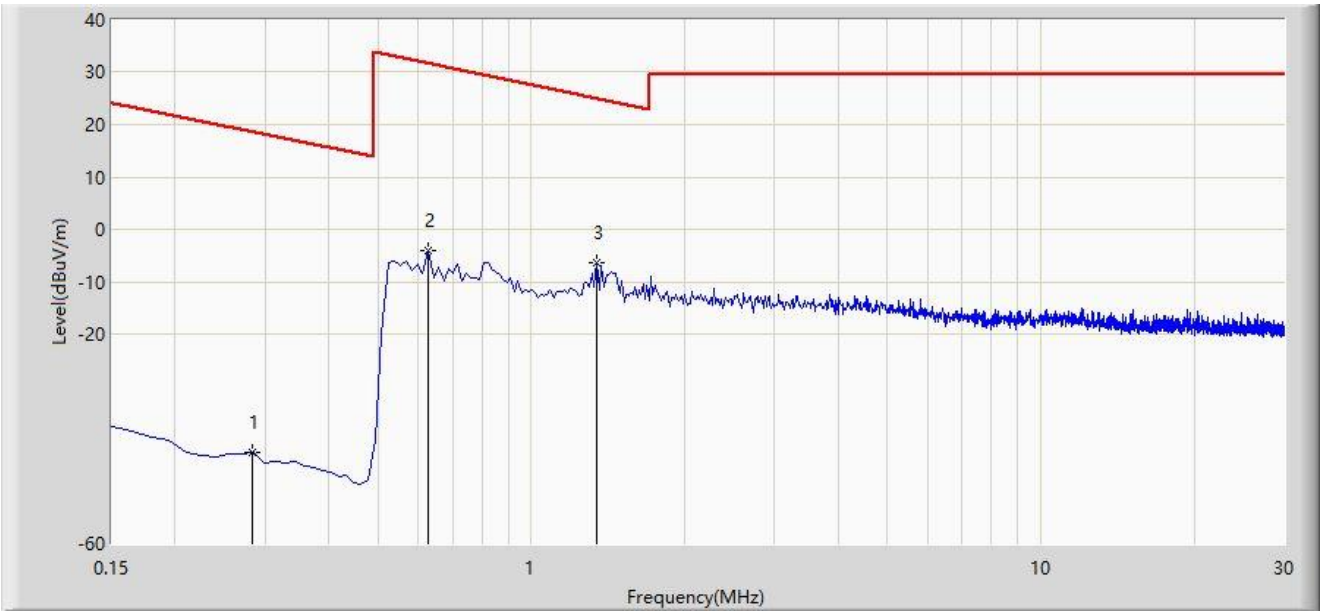
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) + 40log(d1/d2) (dB), d1 = 3m, d2 = 300m (9kHz-490kHz) or 30m (490kHz-30MHz).

Note 4: Quasi-Peak measurement was not performed when peak measure level was lower than the quasi-peak limit.

Site: WZ-AC1	Test Date: 2023-07-26
Limit: FCC_Part15.209_RSE	Engineer: Carl Jiang
Probe: FMZB1519_0.009-30MHz	Polarity: Coaxial
EUT: HPE Aruba User Experience Sensor	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at 2412MHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		0.284	-42.636	19.946	-61.171	18.535	-62.582	PK
2		0.628	-4.116	18.232	-35.767	31.651	-22.348	PK
3	*	1.344	-6.406	15.923	-31.467	25.061	-22.329	PK

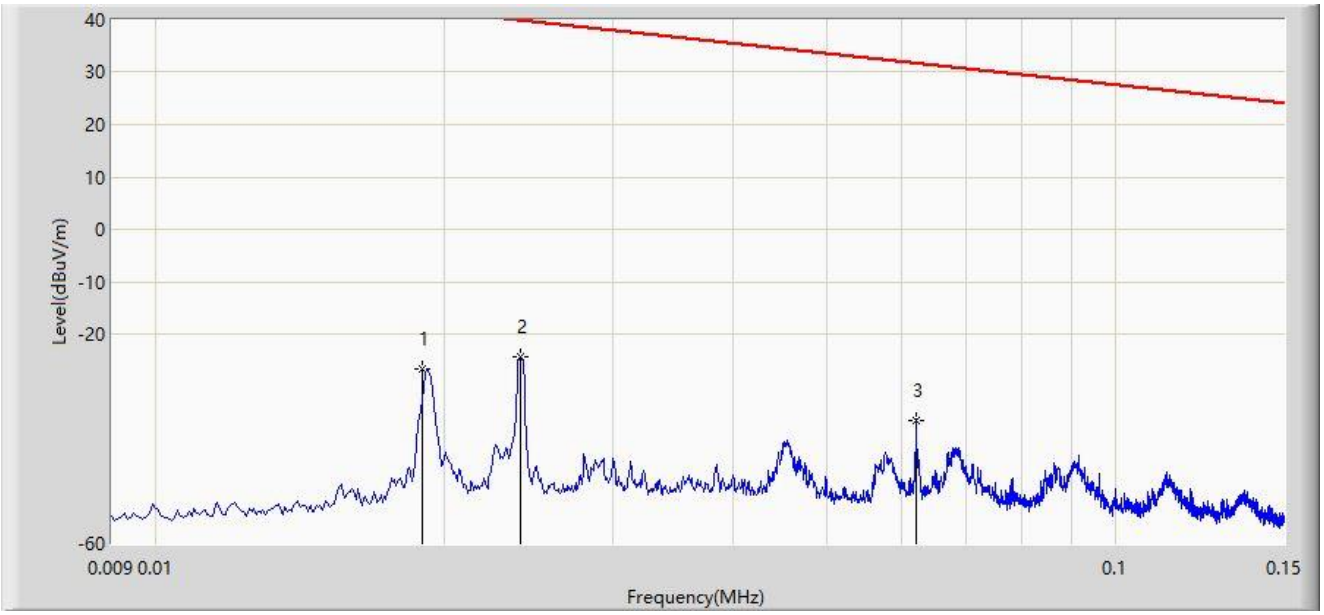
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) + 40log(d1/d2) (dB), d1 = 3m, d2 = 300m (9kHz-490kHz) or 30m (490kHz-30MHz).

Note 4: Quasi-Peak measurement was not performed when peak measure level was lower than the quasi-peak limit.

Site: WZ-AC1	Test Date: 2023-07-26
Limit: FCC_Part15.209_RSE	Engineer: Carl Jiang
Probe: FMZB1519_0.009-30MHz	Polarity: Coplanar
EUT: HPE Aruba User Experience Sensor	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at 2412MHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		0.019	-26.775	33.111	-68.788	42.013	-59.886	PK
2	*	0.024	-24.266	36.210	-64.251	39.985	-60.476	PK
3		0.062	-36.546	25.929	-68.292	31.746	-62.475	PK

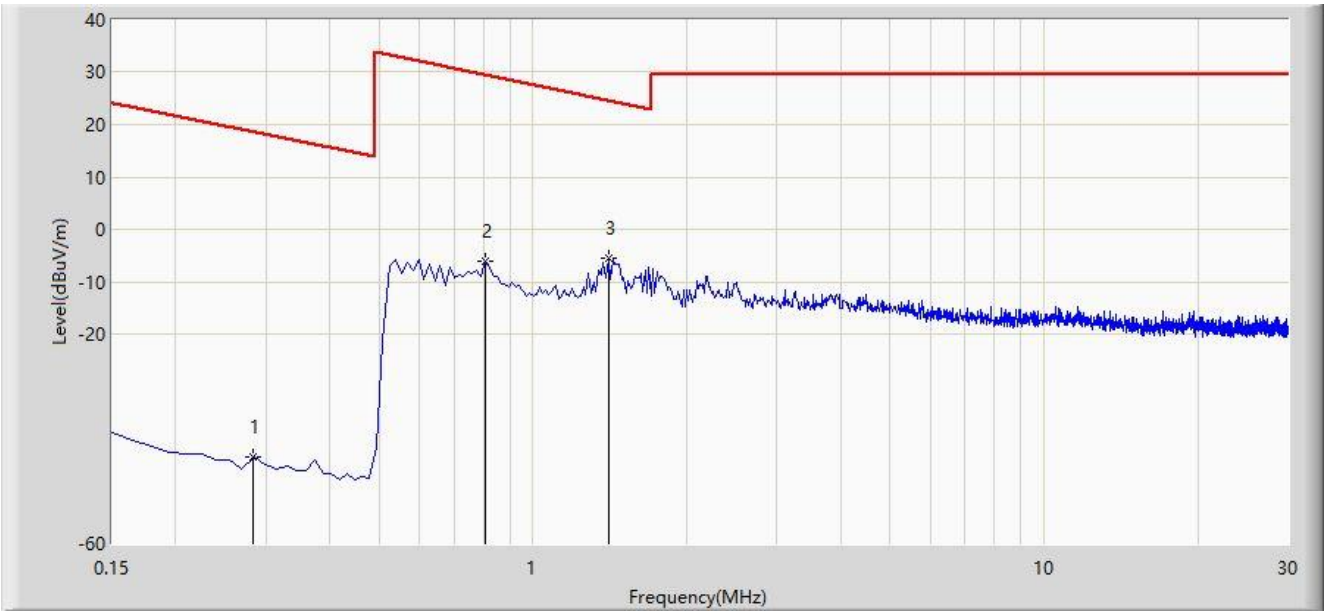
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) + 40log(d1/d2) (dB), d1 = 3m, d2 = 300m (9kHz-490kHz) or 30m (490kHz-30MHz).

Note 4: Quasi-Peak measurement was not performed when peak measure level was lower than the quasi-peak limit.

Site: WZ-AC1	Test Date: 2023-07-26
Limit: FCC_Part15.209_RSE	Engineer: Carl Jiang
Probe: FMZB1519_0.009-30MHz	Polarity: Coplanar
EUT: HPE Aruba User Experience Sensor	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at 2412MHz	



No	Mark	Frequency (MHz)	Measure Level (dBµV/m)	Reading Level (dBµV)	Margin (dB)	Limit (dBµV/m)	Factor (dB/m)	Type
1		0.284	-43.621	18.961	-62.156	18.535	-62.582	PK
2		0.807	-6.094	16.227	-35.572	29.479	-22.321	PK
3	*	1.404	-5.642	16.694	-30.324	24.682	-22.335	PK

Note 1: " * ", means this data is the worst emission level.

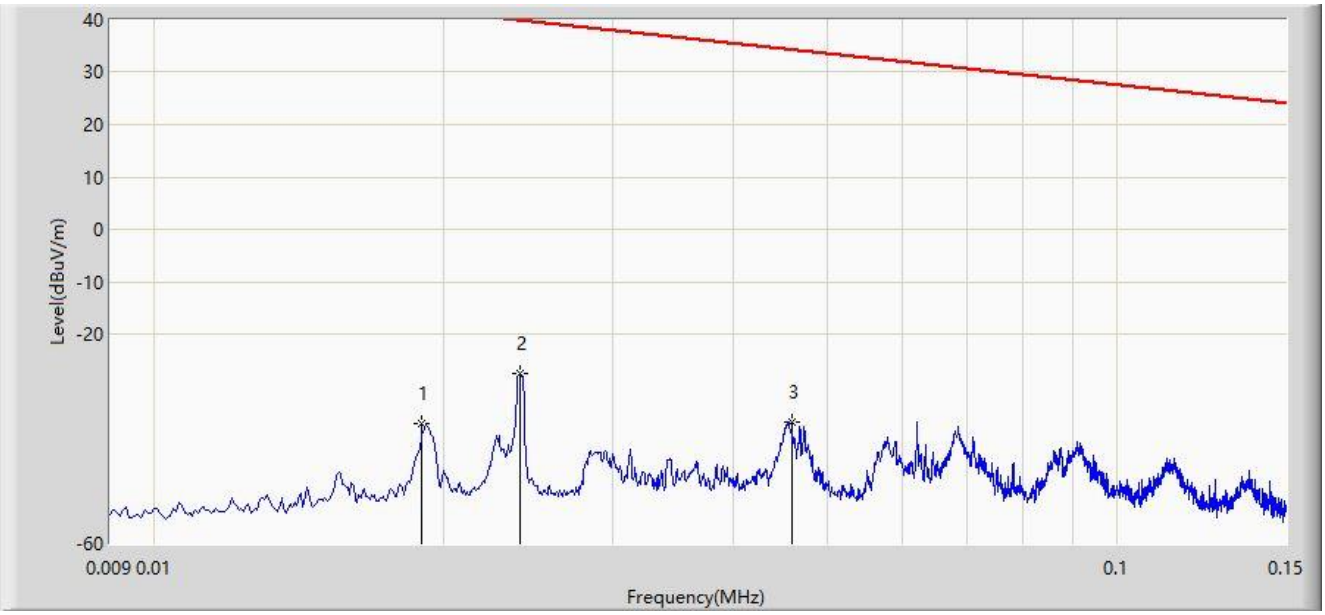
Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) + 40log(d1/d2) (dB), d1 = 3m, d2 = 300m (9kHz-490kHz) or 30m (490kHz-30MHz).

Note 4: Quasi-Peak measurement was not performed when peak measure level was lower than the quasi-peak limit.

Radio 1:

Site: WZ-AC1	Test Date: 2023-07-26
Limit: FCC_Part15.209_RSE	Engineer: Carl Jiang
Probe: FMZB1519_0.009-30MHz	Polarity: Coaxial
EUT: HPE Aruba User Experience Sensor	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at 2412MHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		0.019	-37.178	22.708	-79.191	42.013	-59.886	PK
2	*	0.024	-27.486	32.990	-67.471	39.985	-60.476	PK
3		0.046	-36.775	25.540	-71.113	34.337	-62.316	PK

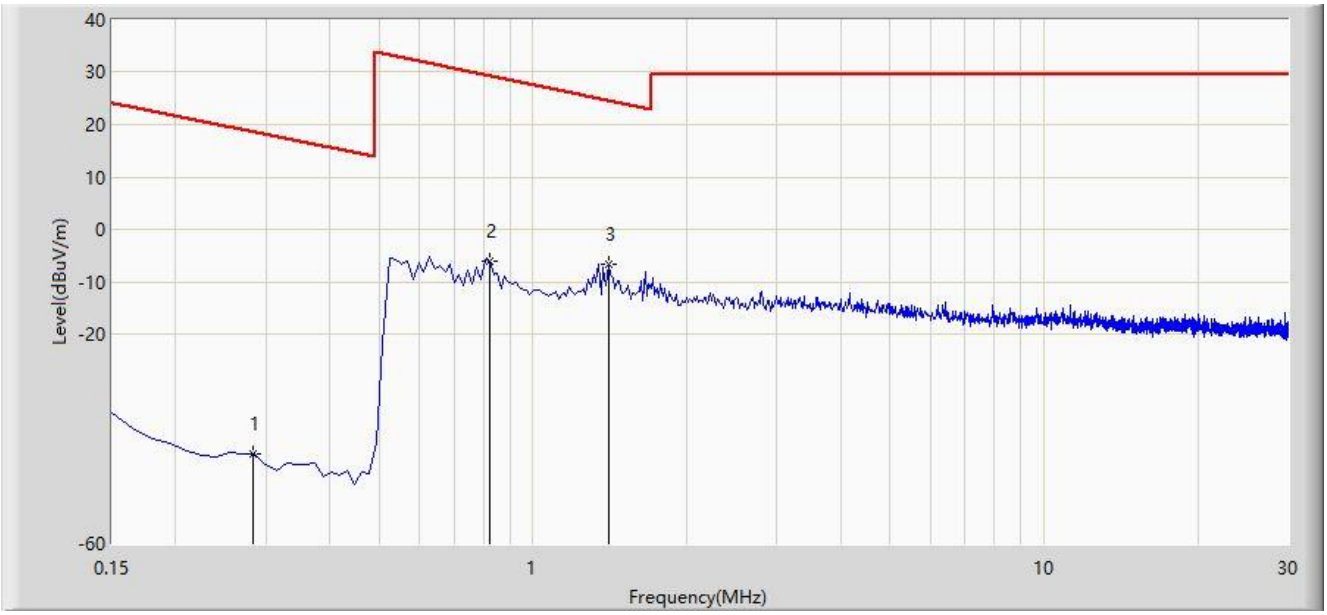
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) + 40log(d1/d2) (dB), d1 = 3m, d2 = 300m (9kHz-490kHz) or 30m (490kHz-30MHz).

Note 4: Quasi-Peak measurement was not performed when peak measure level was lower than the quasi-peak limit.

Site: WZ-AC1	Test Date: 2023-07-26
Limit: FCC_Part15.209_RSE	Engineer: Carl Jiang
Probe: FMZB1519_0.009-30MHz	Polarity: Coaxial
EUT: HPE Aruba User Experience Sensor	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at 2412MHz	



No	Mark	Frequency (MHz)	Measure Level (dBµV/m)	Reading Level (dBµV)	Margin (dB)	Limit (dBµV/m)	Factor (dB/m)	Type
1		0.284	-43.004	19.578	-61.539	18.535	-62.582	PK
2		0.822	-6.040	16.278	-35.359	29.319	-22.318	PK
3	*	1.404	-6.572	15.764	-31.254	24.682	-22.335	PK

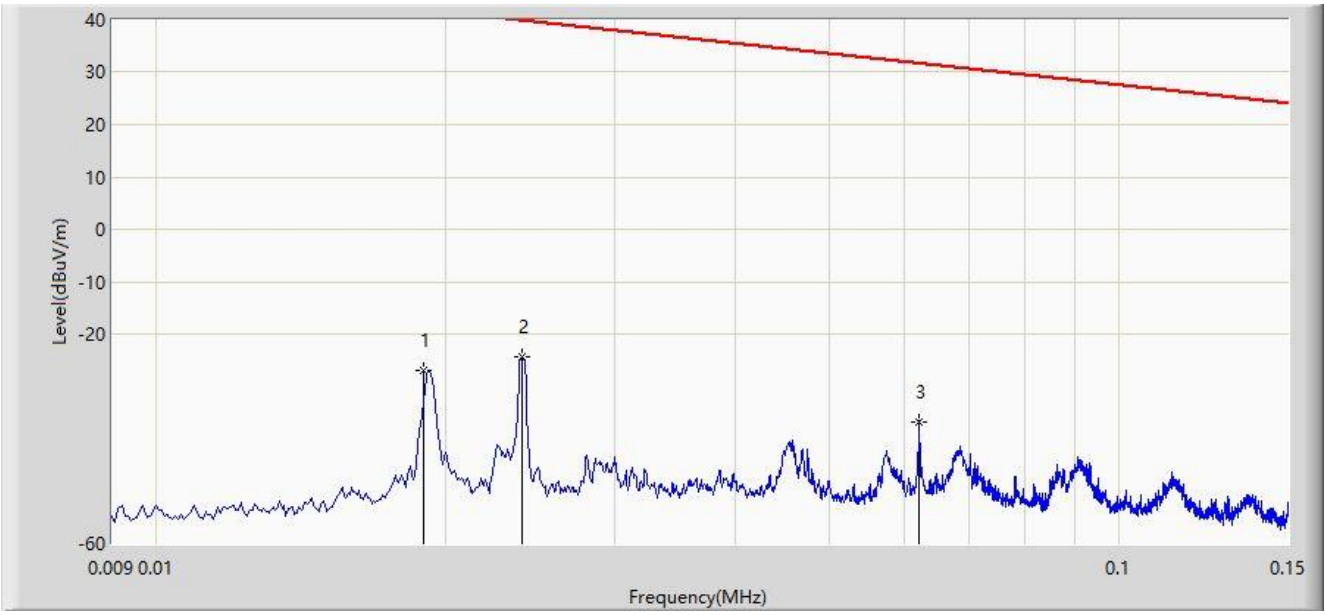
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) + 40log(d1/d2) (dB), d1 = 3m, d2 = 300m (9kHz-490kHz) or 30m (490kHz-30MHz).

Note 4: Quasi-Peak measurement was not performed when peak measure level was lower than the quasi-peak limit.

Site: WZ-AC1	Test Date: 2023-07-26
Limit: FCC_Part15.209_RSE	Engineer: Carl Jiang
Probe: FMZB1519_0.009-30MHz	Polarity: Coplanar
EUT: HPE Aruba User Experience Sensor	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at 2412MHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		0.019	-26.860	33.026	-68.873	42.013	-59.886	PK
2	*	0.024	-24.288	36.188	-64.273	39.985	-60.476	PK
3		0.062	-36.836	25.639	-68.582	31.746	-62.475	PK

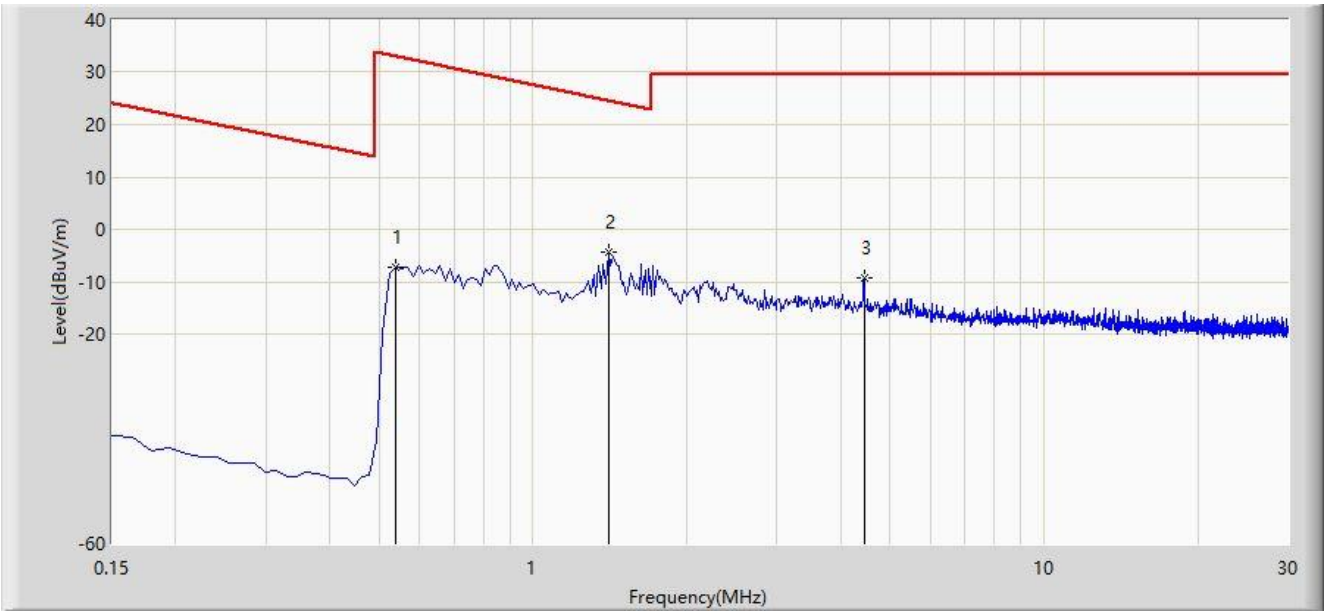
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) + 40log(d1/d2) (dB), d1 = 3m, d2 = 300m (9kHz-490kHz) or 30m (490kHz-30MHz).

Note 4: Quasi-Peak measurement was not performed when peak measure level was lower than the quasi-peak limit.

Site: WZ-AC1	Test Date: 2023-07-26
Limit: FCC_Part15.209_RSE	Engineer: Carl Jiang
Probe: FMZB1519_0.009-30MHz	Polarity: Coplanar
EUT: HPE Aruba User Experience Sensor	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at 2412MHz	



No	Mark	Frequency (MHz)	Measure Level (dBµV/m)	Reading Level (dBµV)	Margin (dB)	Limit (dBµV/m)	Factor (dB/m)	Type
1		0.538	-7.231	15.158	-40.222	32.991	-22.390	PK
2	*	1.404	-4.400	17.936	-29.082	24.682	-22.335	PK
3		4.448	-9.137	13.148	-38.637	29.500	-22.285	PK

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB/m).

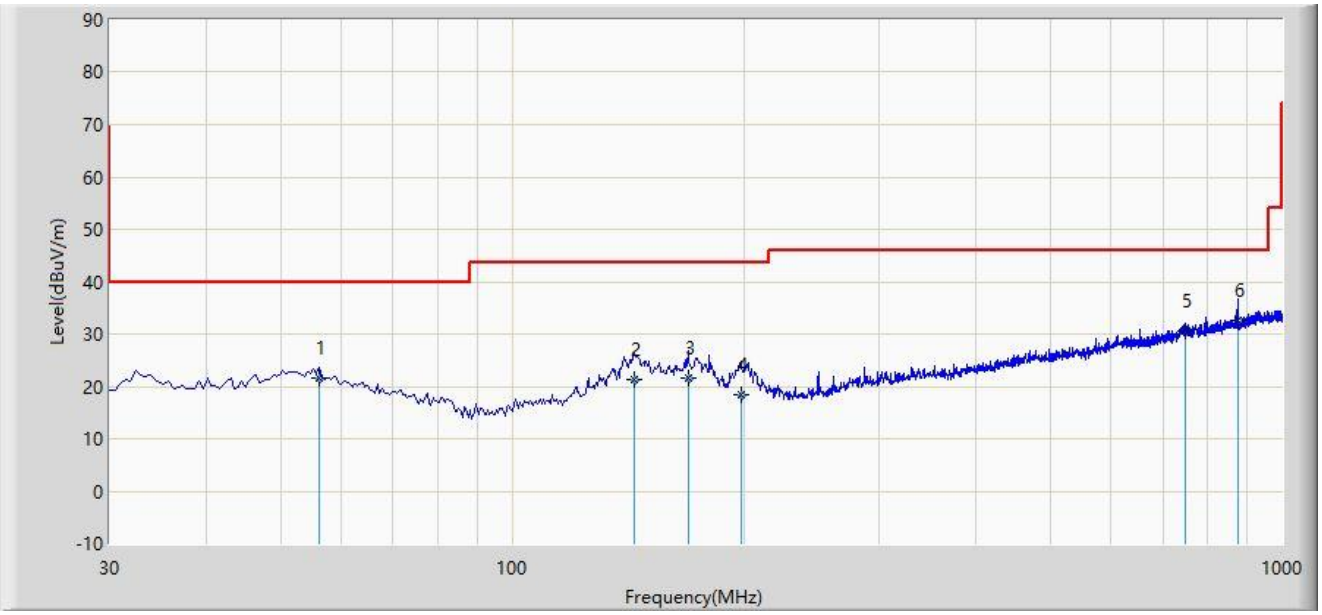
Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) + 40log(d1/d2) (dB), d1 = 3m, d2 = 300m (9kHz-490kHz) or 30m (490kHz-30MHz).

Note 4: Quasi-Peak measurement was not performed when peak measure level was lower than the quasi-peak limit.

The Result of Radiated Emission below 1GHz:

Radio 0:

Site: WZ-AC1	Test Date: 2023-08-10
Limit: FCC_Part15.209_RSE(3m)	Engineer: Ajin Fan
Probe: VULB 9168_25-2000MHz	Polarity: Horizontal
EUT: HPE Aruba User Experience Sensor	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at 2412MHz	



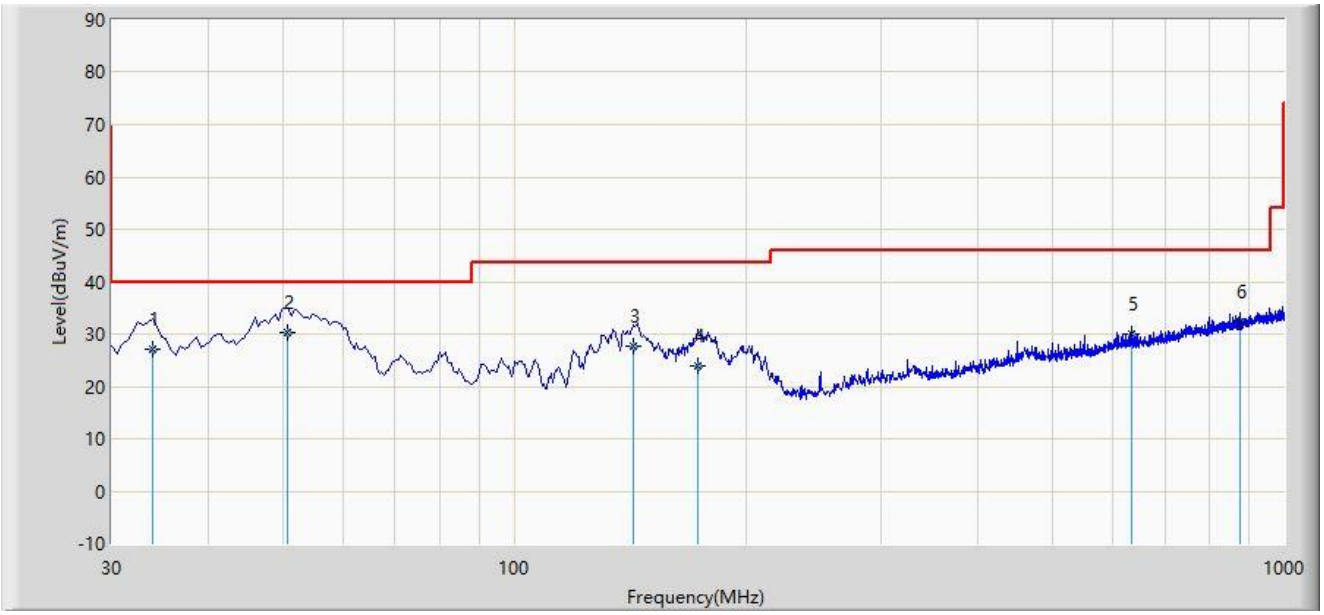
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		56.190	21.704	3.360	-18.296	40.000	18.344	QP
2		143.975	21.184	3.230	-22.316	43.500	17.955	QP
3		169.195	21.631	3.650	-21.869	43.500	17.981	QP
4		198.295	18.352	3.320	-25.148	43.500	15.032	QP
5		749.740	30.452	2.390	-15.548	46.000	28.062	QP
6	*	874.870	32.686	3.690	-13.314	46.000	28.996	QP

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: WZ-AC1	Test Date: 2023-08-10
Limit: FCC_Part15.209_RSE(3m)	Engineer: Ajin Fan
Probe: VULB 9168_25-2000MHz	Polarity: Vertical
EUT: HPE Aruba User Experience Sensor	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at 2412MHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		33.880	27.041	9.630	-12.959	40.000	17.412	QP
2	*	50.855	30.274	11.690	-9.726	40.000	18.583	QP
3		143.005	27.553	9.630	-15.947	43.500	17.923	QP
4		173.075	23.998	6.330	-19.502	43.500	17.668	QP
5		632.855	29.984	3.960	-16.016	46.000	26.024	QP
6		874.870	32.386	3.390	-13.614	46.000	28.996	QP

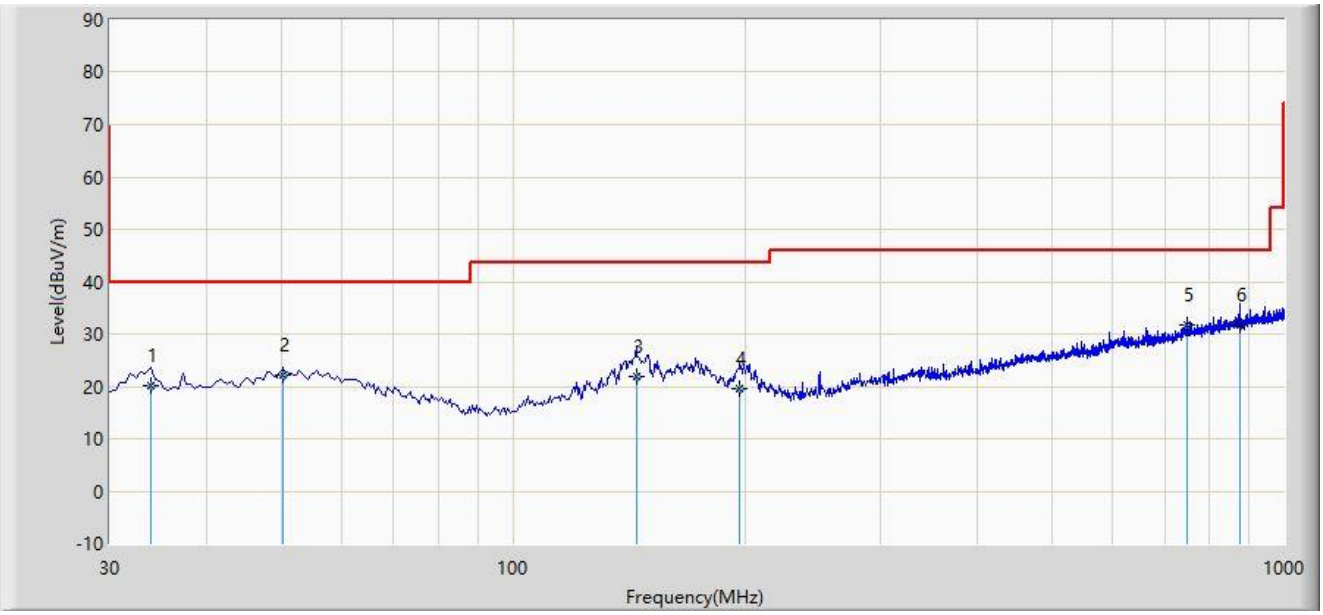
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Radio 1:

Site: WZ-AC1	Test Date: 2023-08-10
Limit: FCC_Part15.209_RSE(3m)	Engineer: Ajin Fan
Probe: VULB 9168_25-2000MHz	Polarity: Horizontal
EUT: HPE Aruba User Experience Sensor	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at 2412MHz	



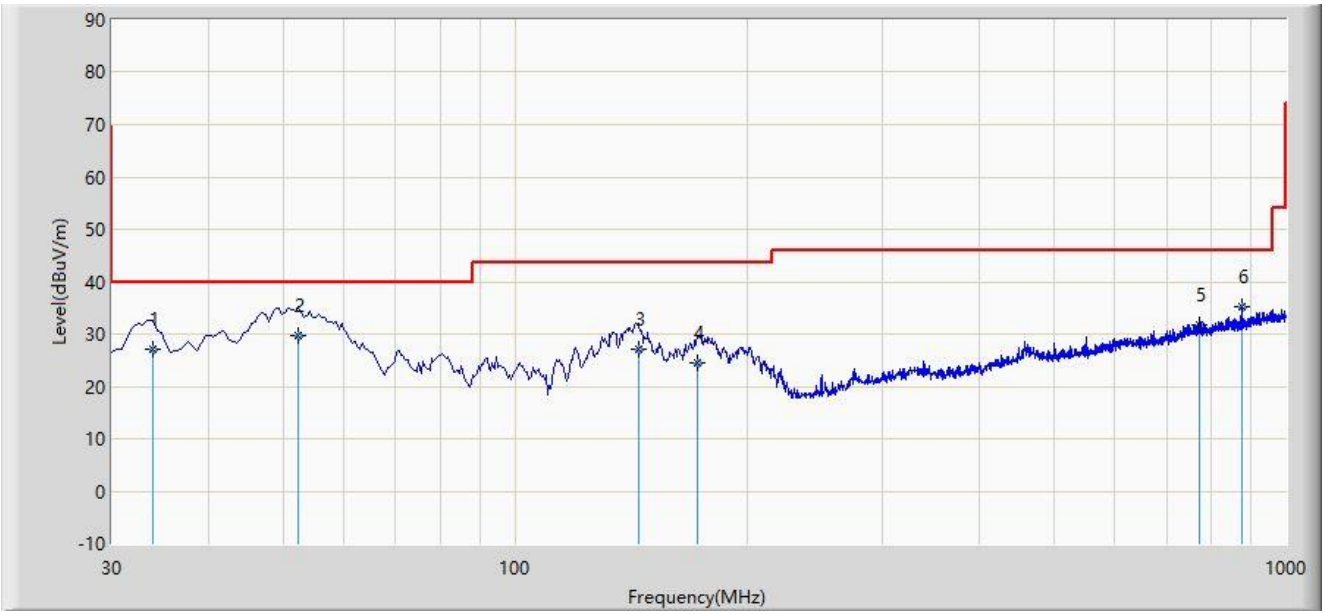
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		33.880	20.071	2.660	-19.929	40.000	17.412	QP
2		50.370	22.215	3.630	-17.785	40.000	18.585	QP
3		144.500	21.957	3.990	-21.543	43.500	17.966	QP
4		196.840	19.496	4.396	-24.004	43.500	15.100	QP
5	*	748.800	31.744	3.690	-14.256	46.000	28.054	QP
6		874.900	31.686	2.690	-14.314	46.000	28.996	QP

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: WZ-AC1	Test Date: 2023-08-10
Limit: FCC_Part15.209_RSE(3m)	Engineer: Ajin Fan
Probe: VULB 9168_25-2000MHz	Polarity: Vertical
EUT: HPE Aruba User Experience Sensor	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at 2412MHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		33.880	27.242	9.831	-12.758	40.000	17.412	QP
2	*	52.310	29.675	11.110	-10.325	40.000	18.565	QP
3		144.900	27.201	9.225	-16.299	43.500	17.975	QP
4		172.600	24.485	6.770	-19.015	43.500	17.716	QP
5		772.050	31.765	3.650	-14.235	46.000	28.115	QP
6		874.870	35.356	6.360	-10.644	46.000	28.996	QP

Note 1: " * ", means this data is the worst emission level.

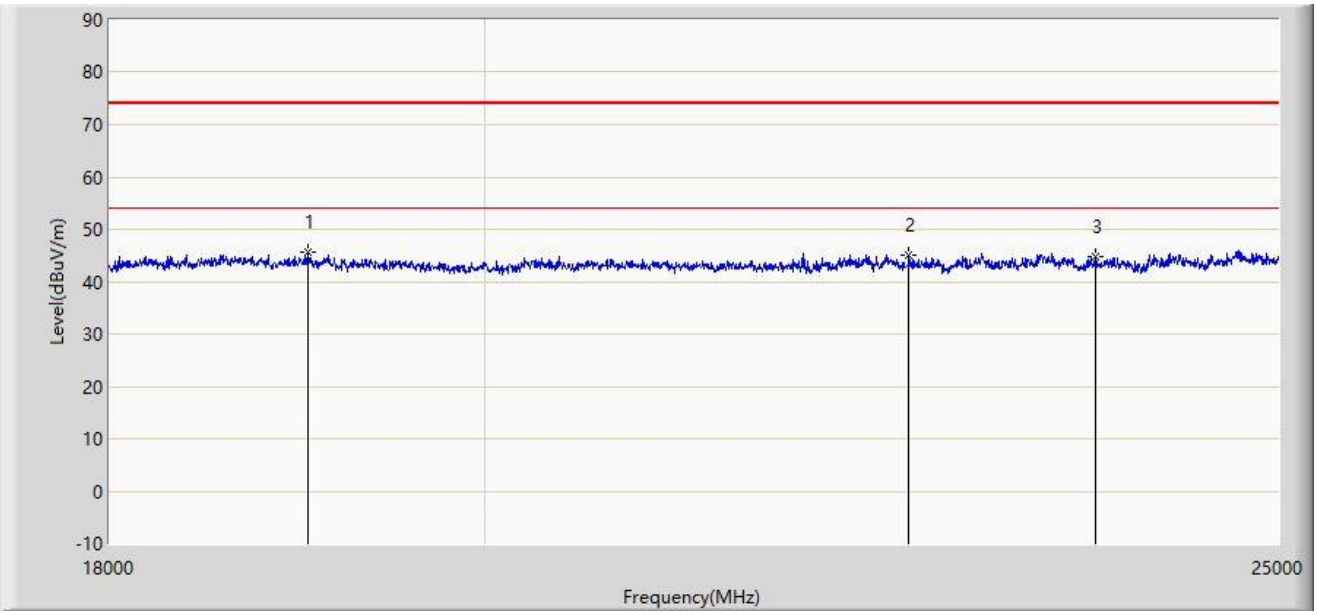
Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

The Result of Radiated Emission 18G ~ 25GHz:

Radio 0:

Site: WZ-AC2	Test Date: 2023-08-13
Limit: FCC_Part15.209_RSE(3m)	Engineer: Dick Shen
Probe: BBHA9170_993_18-40GHz	Polarity: Horizontal
EUT: HPE Aruba User Experience Sensor	Power: AC 120V/60Hz
Note: Transmit by 802.11b at 2412MHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	19032.500	45.536	55.635	-28.464	74.000	-10.099	PK
2		22536.000	44.986	52.627	-29.014	74.000	-7.641	PK
3		23750.500	44.927	52.517	-29.073	74.000	-7.591	PK

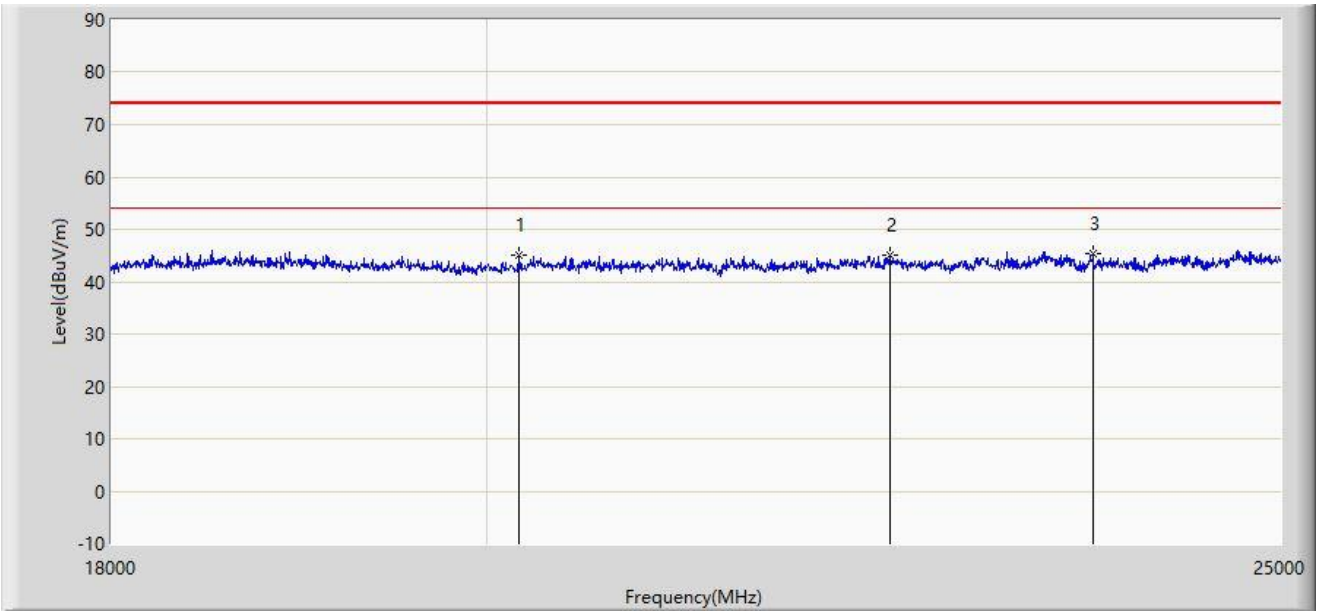
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Note 4: Average measurement was not performed when peak measure level was lower than the average limit.

Site: WZ-AC2	Test Date: 2023-08-13
Limit: FCC_Part15.209_RSE(3m)	Engineer: Dick Shen
Probe: BBHA9170_993_18-40GHz	Polarity: Vertical
EUT: HPE Aruba User Experience Sensor	Power: AC 120V/60Hz
Note: Transmit by 802.11b at 2412MHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		20187.500	45.065	55.301	-28.935	74.000	-10.236	PK
2		22399.500	45.136	53.196	-28.864	74.000	-8.059	PK
3	*	23719.000	45.308	52.738	-28.692	74.000	-7.430	PK

Note 1: " * ", means this data is the worst emission level.

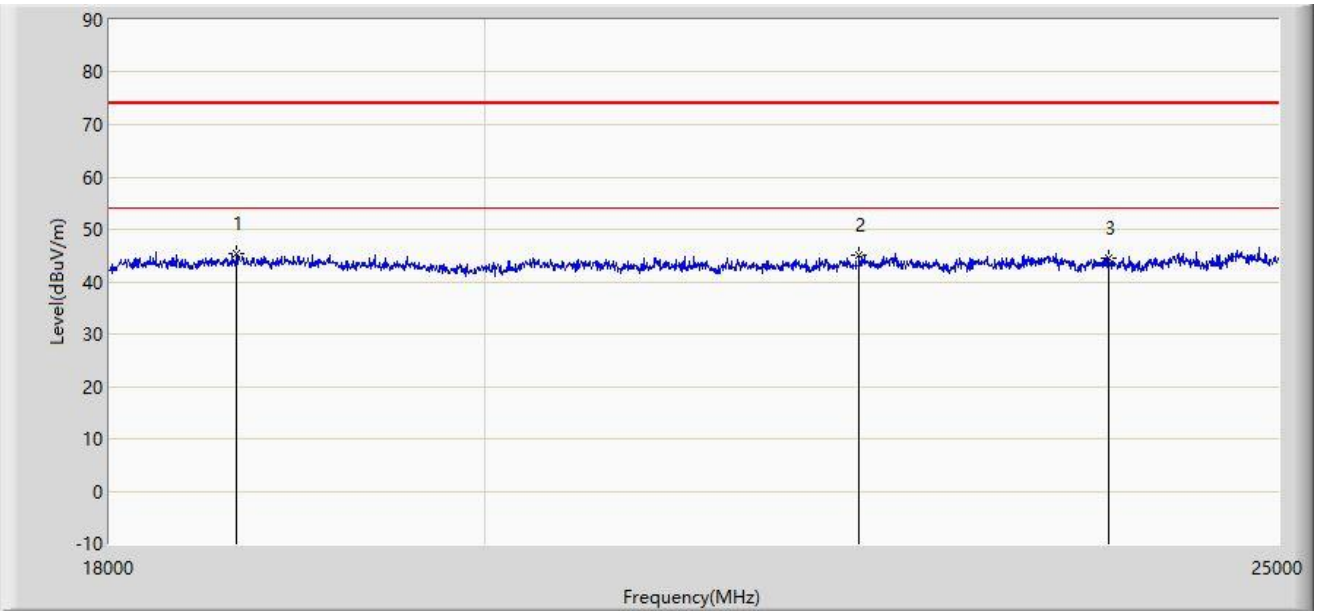
Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Note 4: Average measurement was not performed when peak measure level was lower than the average limit.

Radio 1:

Site: WZ-AC2	Test Date: 2023-08-13
Limit: FCC_Part15.209_RSE(3m)	Engineer: Dick Shen
Probe: BBHA9170_993_18-40GHz	Polarity: Horizontal
EUT: HPE Aruba User Experience Sensor	Power: AC 120V/60Hz
Note: Transmit by 802.11b at 2412MHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	18658.000	45.482	55.962	-28.518	74.000	-10.480	PK
2		22221.000	44.973	53.242	-29.027	74.000	-8.270	PK
3		23838.000	44.506	51.462	-29.494	74.000	-6.955	PK

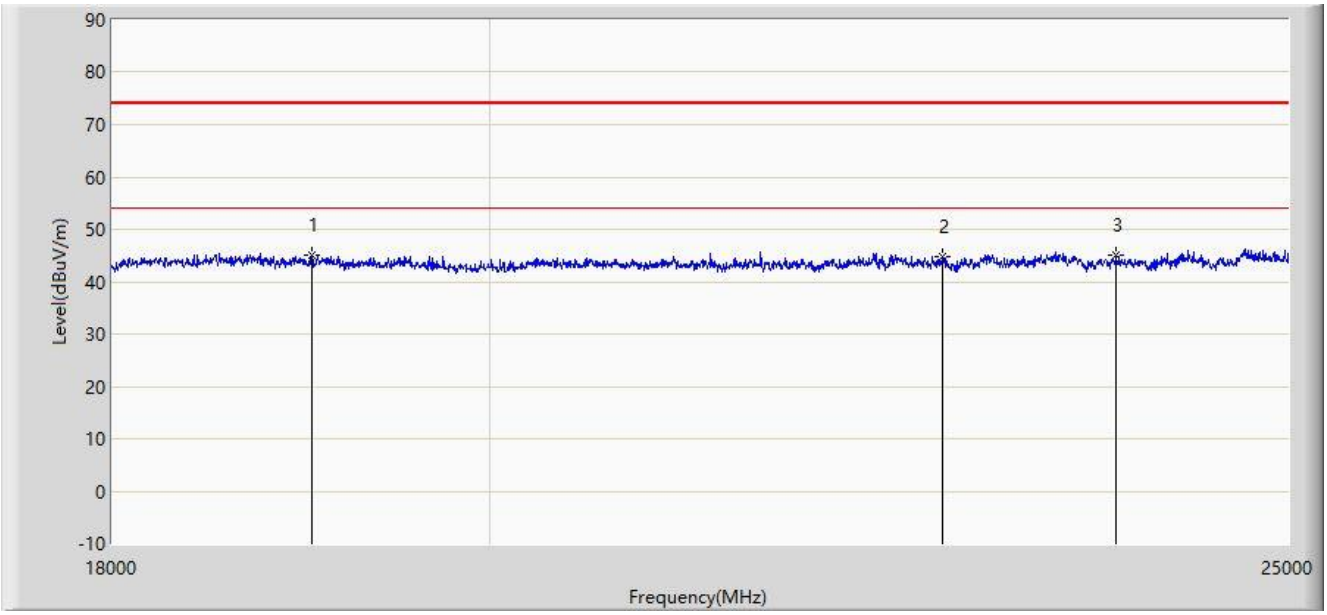
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Note 4: Average measurement was not performed when peak measure level was lower than the average limit.

Site: WZ-AC2	Test Date: 2023-08-13
Limit: FCC_Part15.209_RSE(3m)	Engineer: Dick Shen
Probe: BBHA9170_993_18-40GHz	Polarity: Vertical
EUT: HPE Aruba User Experience Sensor	Power: AC 120V/60Hz
Note: Transmit by 802.11b at 2412MHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		19032.500	45.113	55.212	-28.887	74.000	-10.099	PK
2		22704.000	44.814	52.609	-29.186	74.000	-7.795	PK
3	*	23831.000	45.195	52.138	-28.805	74.000	-6.943	PK

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

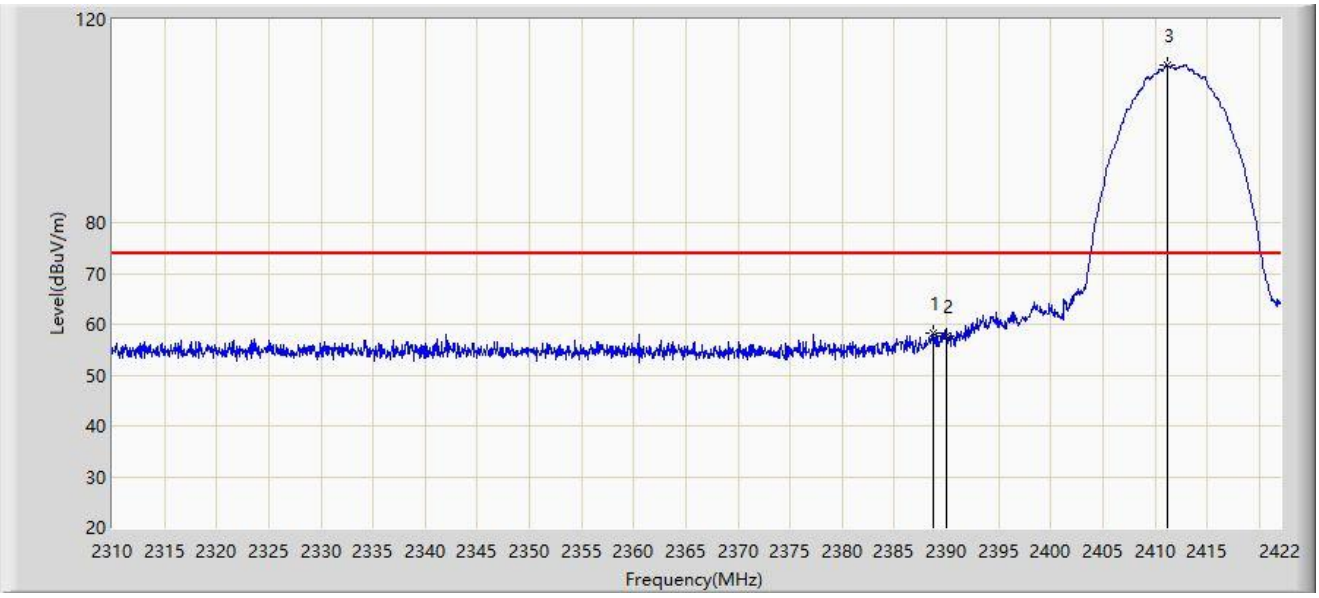
Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Note 4: Average measurement was not performed when peak measure level was lower than the average limit.

A.7 Radiated Restricted Band Edge Test Result

Radio 0:

Site: WZ-AC2	Test Date: 2023-06-19
Limit: FCC_2.4G_RE(3m)	Engineer: Bob Zhang
Probe: BBHA9120D_1457_1-18GHz	Polarity: Horizontal
EUT: HPE Aruba User Experience Sensor	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at 2412MHz	



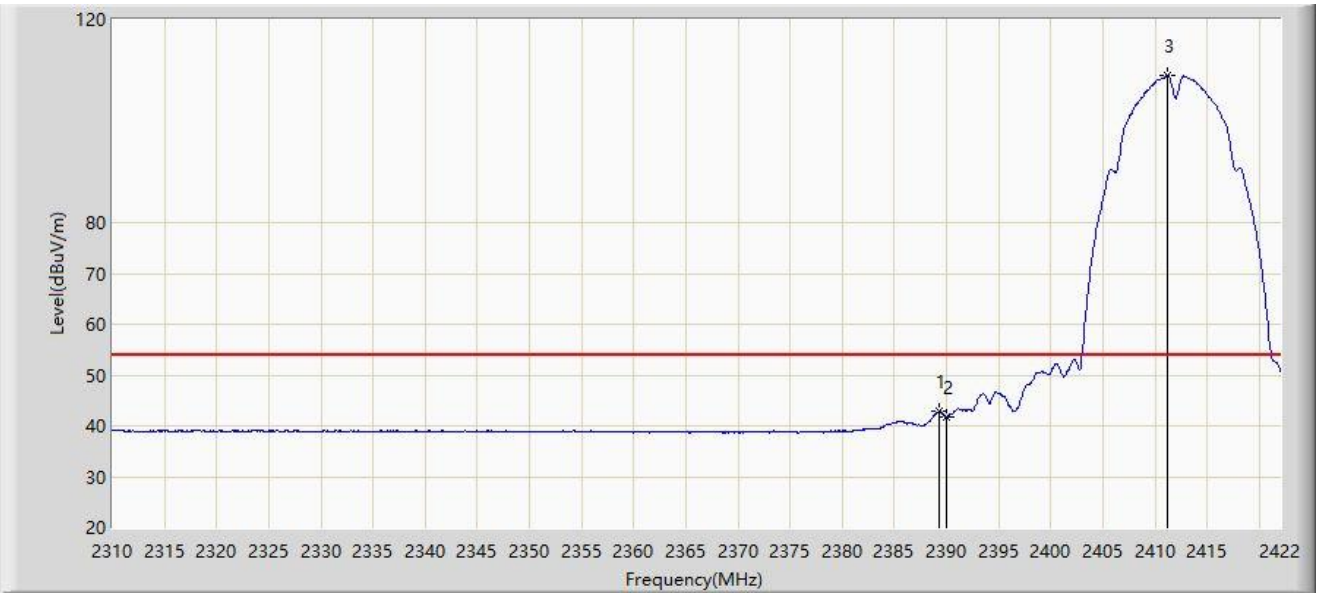
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	2388.736	58.206	26.583	-15.794	74.000	31.623	PK
2		2390.000	57.578	25.963	-16.422	74.000	31.615	PK
3		2411.136	110.994	79.471	N/A	N/A	31.523	PK

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: WZ-AC2	Test Date: 2023-06-19
Limit: FCC_2.4G_RE(3m)	Engineer: Bob Zhang
Probe: BBHA9120D_1457_1-18GHz	Polarity: Horizontal
EUT: HPE Aruba User Experience Sensor	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at 2412MHz	



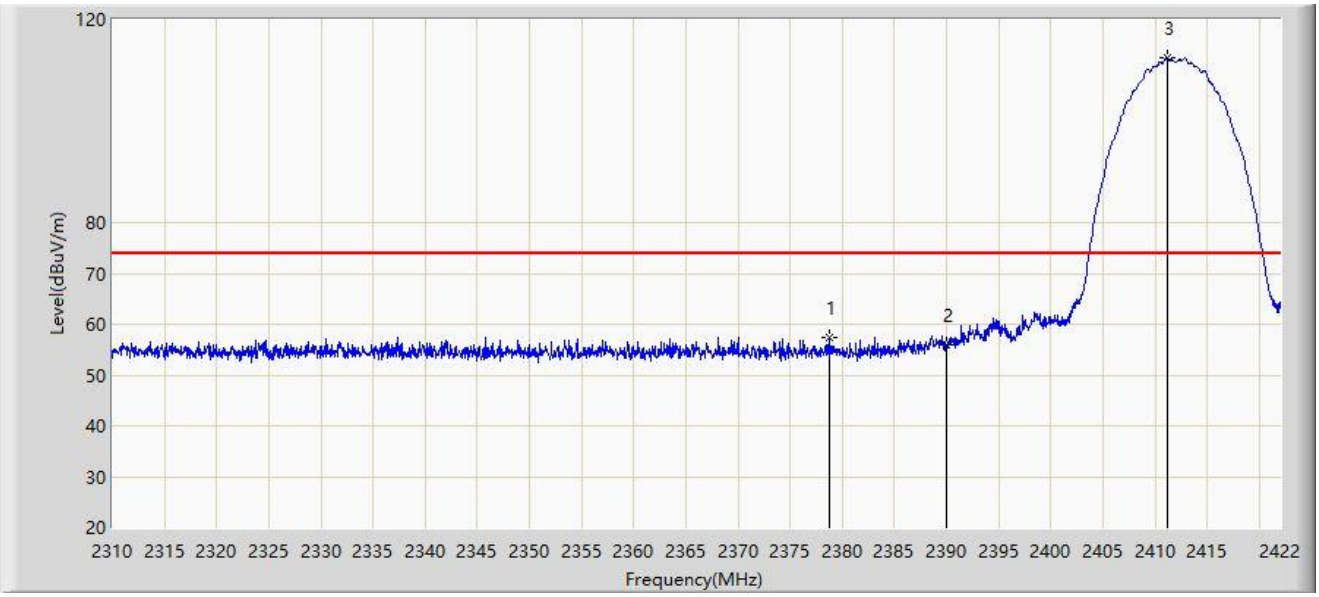
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	2389.240	42.841	11.221	-11.159	54.000	31.620	AV
2		2390.000	41.751	10.136	-12.249	54.000	31.615	AV
3		2411.136	108.979	77.456	N/A	N/A	31.523	AV

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: WZ-AC2	Test Date: 2023-06-19
Limit: FCC_2.4G_RE(3m)	Engineer: Bob Zhang
Probe: BBHA9120D_1457_1-18GHz	Polarity: Vertical
EUT: HPE Aruba User Experience Sensor	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at 2412MHz	



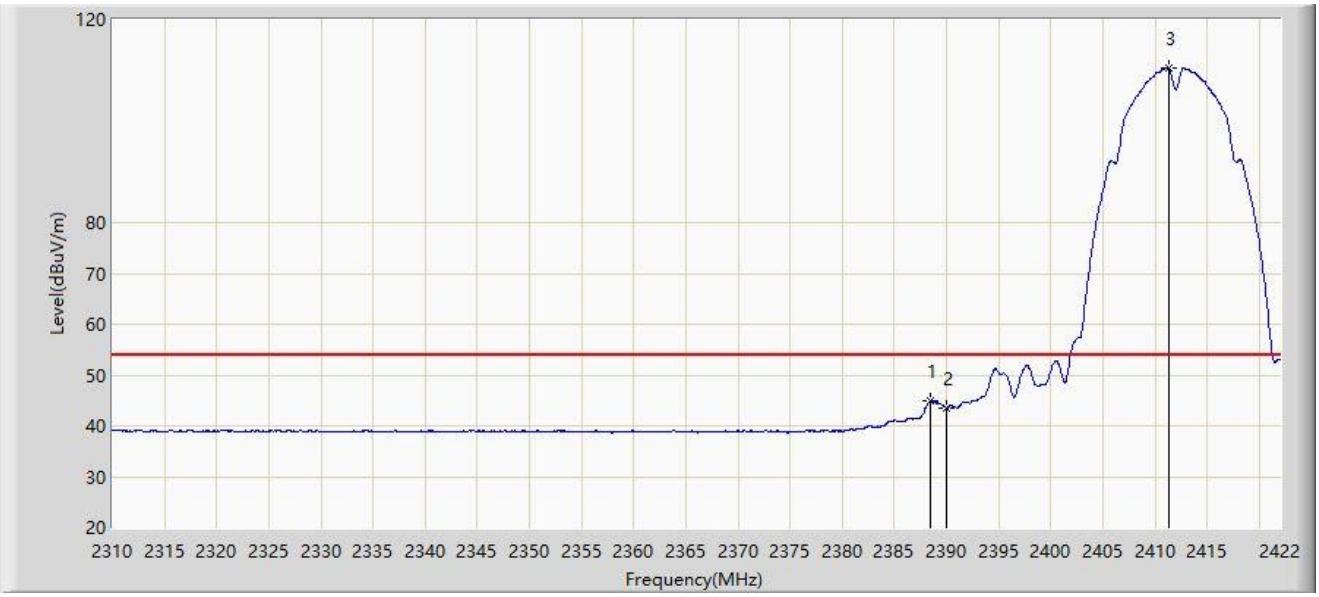
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	2378.712	57.284	25.620	-16.716	74.000	31.664	PK
2		2390.000	55.843	24.228	-18.157	74.000	31.615	PK
3		2411.136	112.421	80.898	N/A	N/A	31.523	PK

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: WZ-AC2	Test Date: 2023-06-19
Limit: FCC_2.4G_RE(3m)	Engineer: Bob Zhang
Probe: BBHA9120D_1457_1-18GHz	Polarity: Vertical
EUT: HPE Aruba User Experience Sensor	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at 2412MHz	



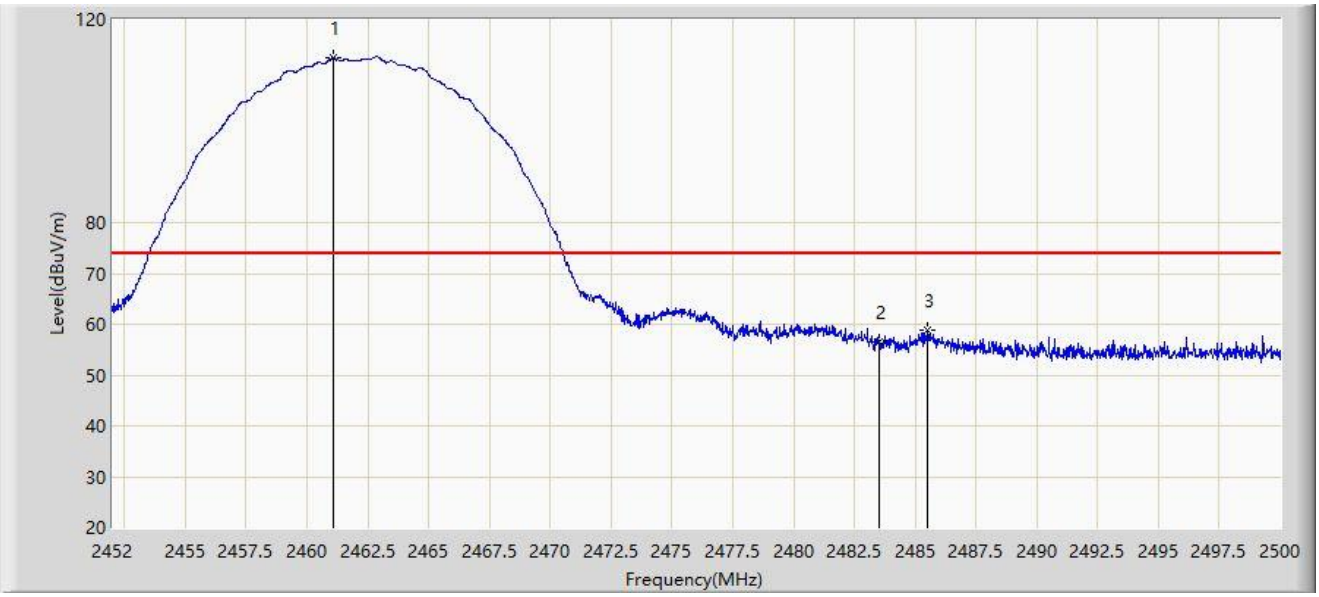
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	2388.400	44.783	13.158	-9.217	54.000	31.625	AV
2		2390.000	43.534	11.919	-10.466	54.000	31.615	AV
3		2411.304	110.446	78.924	N/A	N/A	31.522	AV

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: WZ-AC2	Test Date: 2023-06-19
Limit: FCC_2.4G_RE(3m)	Engineer: Bob Zhang
Probe: BBHA9120D_1457_1-18GHz	Polarity: Horizontal
EUT: HPE Aruba User Experience Sensor	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at 2462MHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		2461.072	112.425	80.939	N/A	N/A	31.486	PK
2		2483.500	56.651	25.151	-17.349	74.000	31.500	PK
3	*	2485.528	58.946	27.445	-15.054	74.000	31.501	PK

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: WZ-AC2	Test Date: 2023-06-19
Limit: FCC_2.4G_RE(3m)	Engineer: Bob Zhang
Probe: BBHA9120D_1457_1-18GHz	Polarity: Horizontal
EUT: HPE Aruba User Experience Sensor	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at 2462MHz	

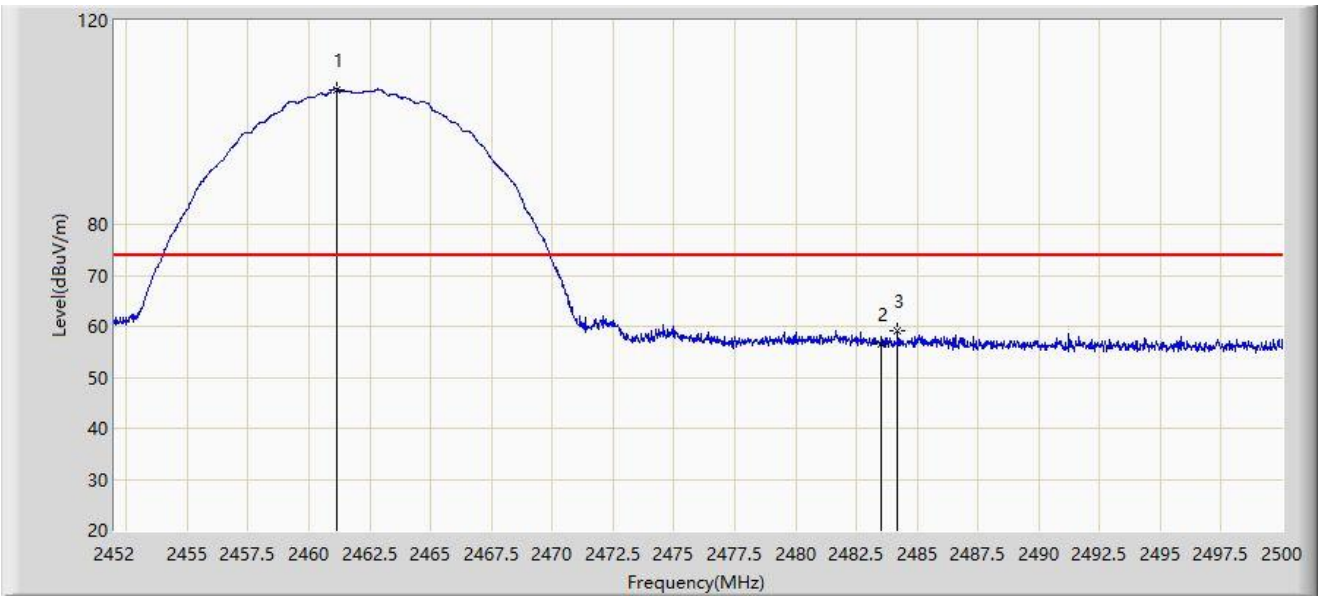
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		2462.656	108.401	76.913	N/A	N/A	31.488	AV
2		2483.500	43.930	12.430	-10.070	54.000	31.500	AV
3	*	2484.616	44.705	13.204	-9.295	54.000	31.501	AV

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: WZ-AC2	Test Date: 2023-06-19
Limit: FCC_2.4G_RE(3m)	Engineer: Bob Zhang
Probe: BBHA9120D_1457_1-18GHz	Polarity: Vertical
EUT: HPE Aruba User Experience Sensor	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at 2462MHz	



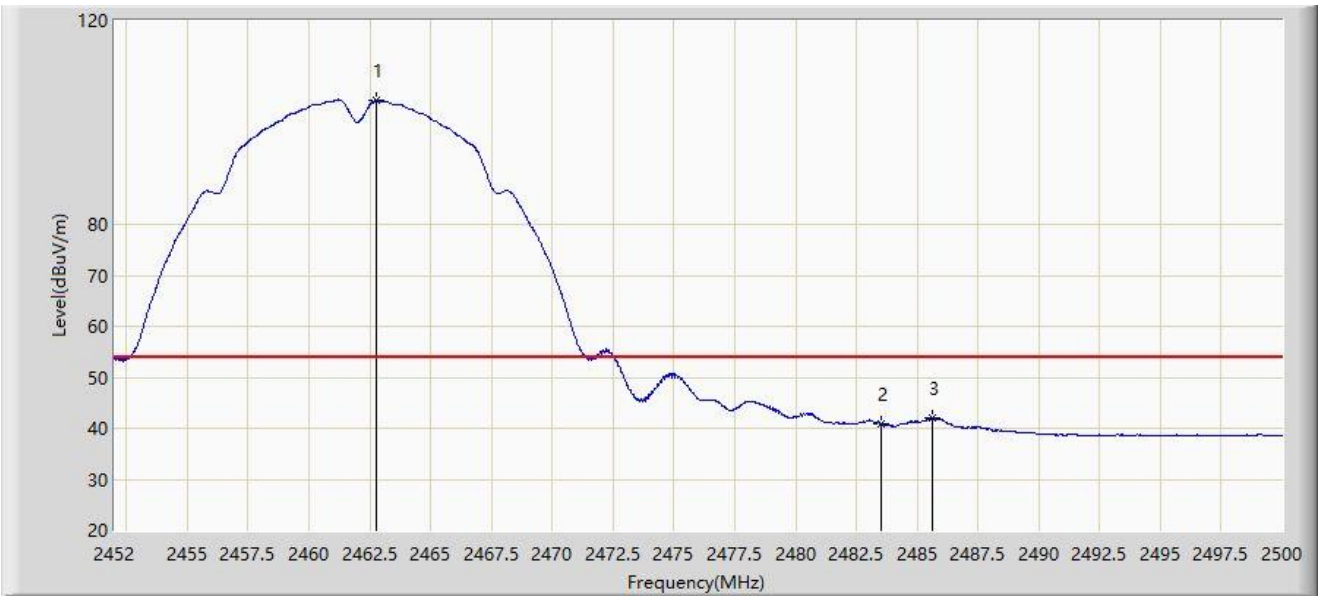
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		2461.168	106.491	75.005	N/A	N/A	31.487	PK
2		2483.500	56.649	25.149	-17.351	74.000	31.500	PK
3	*	2484.184	58.996	27.495	-15.004	74.000	31.501	PK

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: WZ-AC2	Test Date: 2023-06-19
Limit: FCC_2.4G_RE(3m)	Engineer: Bob Zhang
Probe: BBHA9120D_1457_1-18GHz	Polarity: Vertical
EUT: HPE Aruba User Experience Sensor	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at 2462MHz	



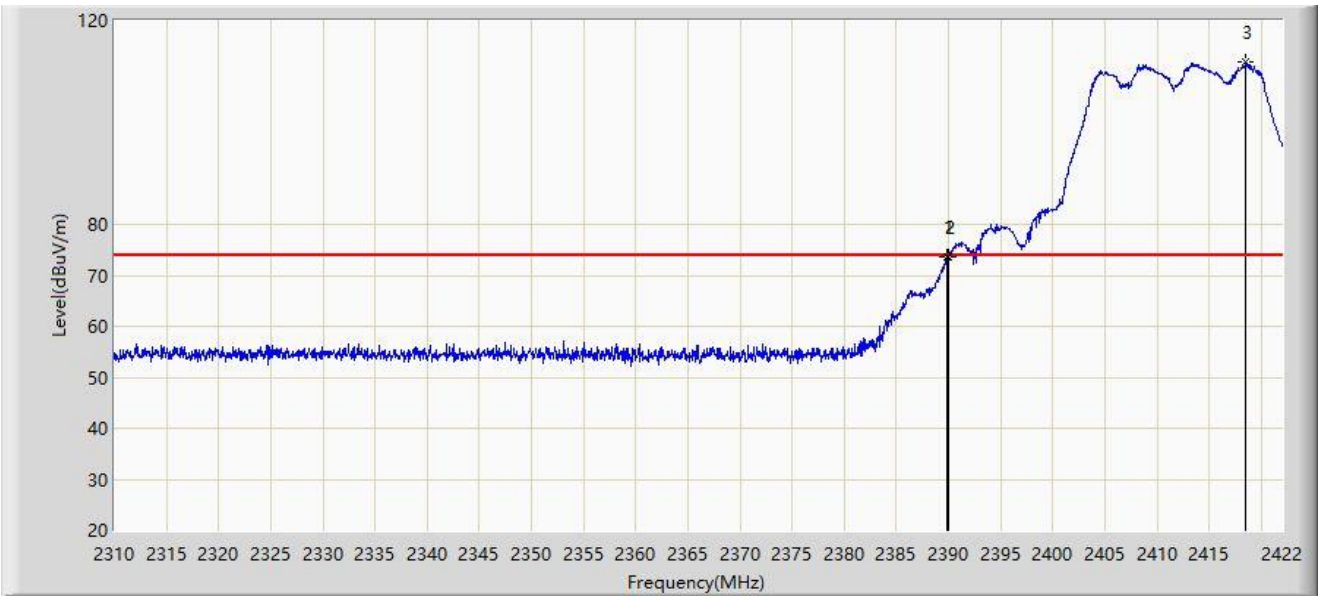
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		2462.752	104.333	72.845	N/A	N/A	31.488	AV
2		2483.500	40.898	9.398	-13.102	54.000	31.500	AV
3	*	2485.648	42.126	10.625	-11.874	54.000	31.501	AV

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: WZ-AC1	Test Date: 2023-08-11
Limit: FCC_2.4G_RE(3m)	Engineer: Ajin Fan
Probe: BBHA9120D_1167_1-18GHz	Polarity: Horizontal
EUT: HPE Aruba User Experience Sensor	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11g at 2412MHz	



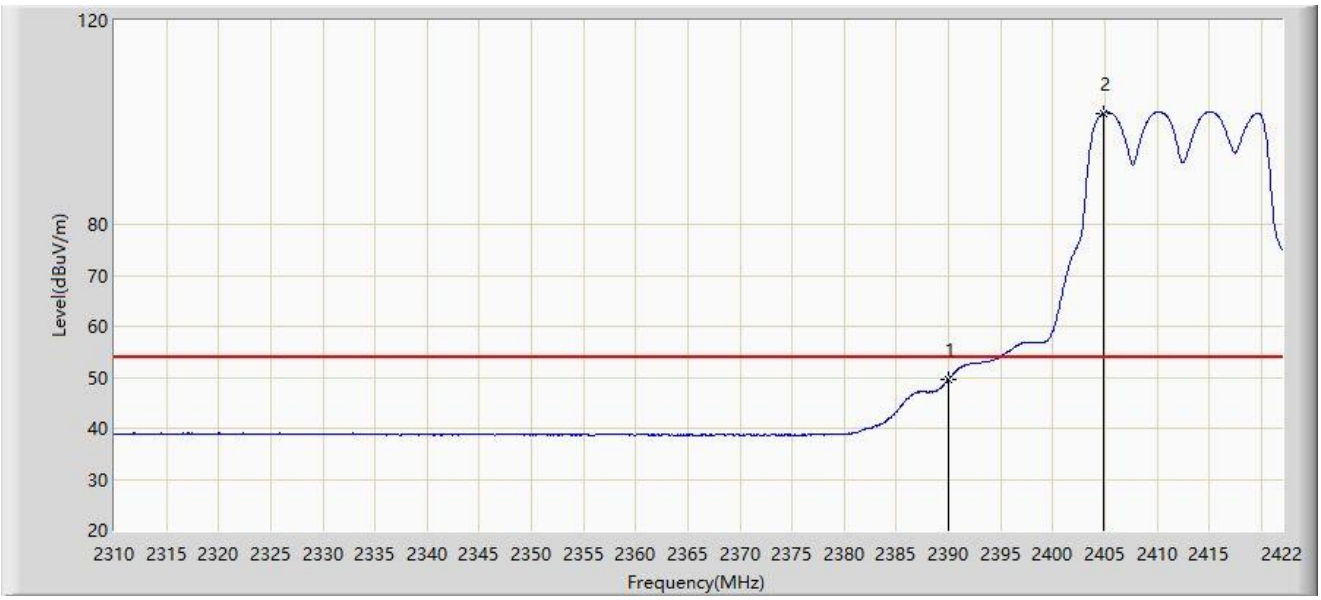
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		2389.800	73.481	42.323	-0.519	74.000	31.159	PK
2	*	2390.000	73.485	42.327	-0.515	74.000	31.158	PK
3		2418.528	111.848	80.721	N/A	N/A	31.127	PK

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: WZ-AC1	Test Date: 2023-08-11
Limit: FCC_2.4G_RE(3m)	Engineer: Ajin Fan
Probe: BBHA9120D_1167_1-18GHz	Polarity: Horizontal
EUT: HPE Aruba User Experience Sensor	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11g at 2412MHz	



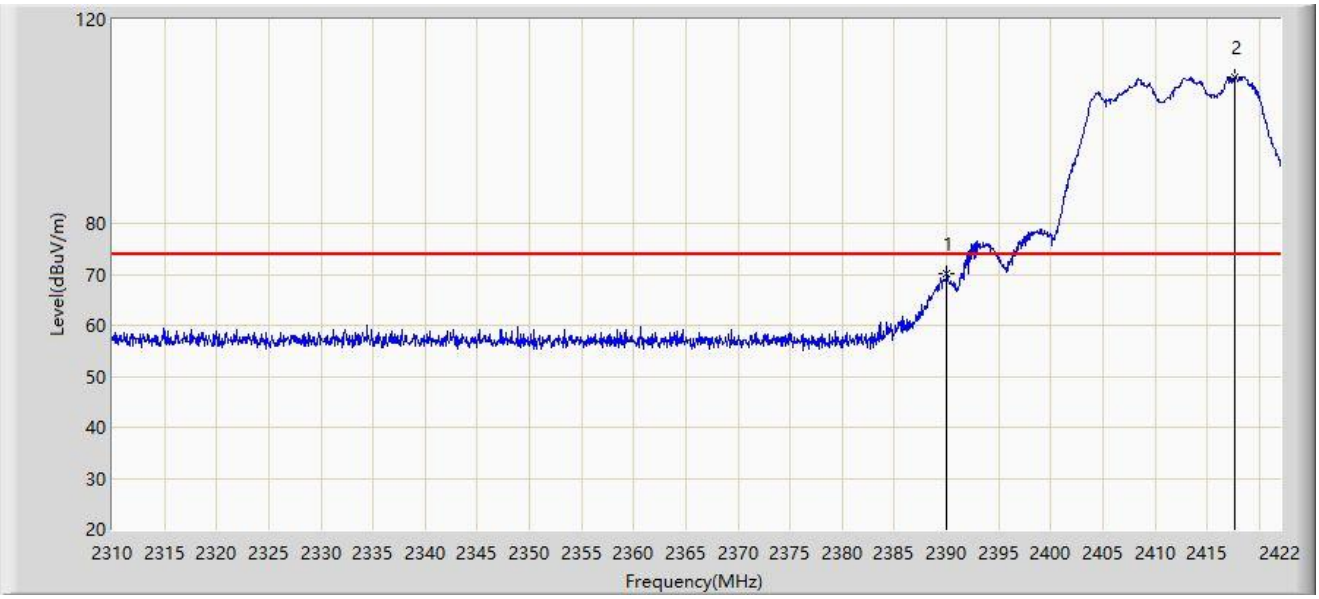
No	Mark	Frequency (MHz)	Measure Level (dBµV/m)	Reading Level (dBµV)	Margin (dB)	Limit (dBµV/m)	Factor (dB/m)	Type
1	*	2390.000	49.641	18.483	-4.359	54.000	31.158	AV
2		2404.920	101.854	70.708	N/A	N/A	31.146	AV

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: WZ-AC1	Test Date: 2023-08-11
Limit: FCC_2.4G_RE(3m)	Engineer: Ajin Fan
Probe: BBHA9120D_1167_1-18GHz	Polarity: Vertical
EUT: HPE Aruba User Experience Sensor	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11g at 2412MHz	



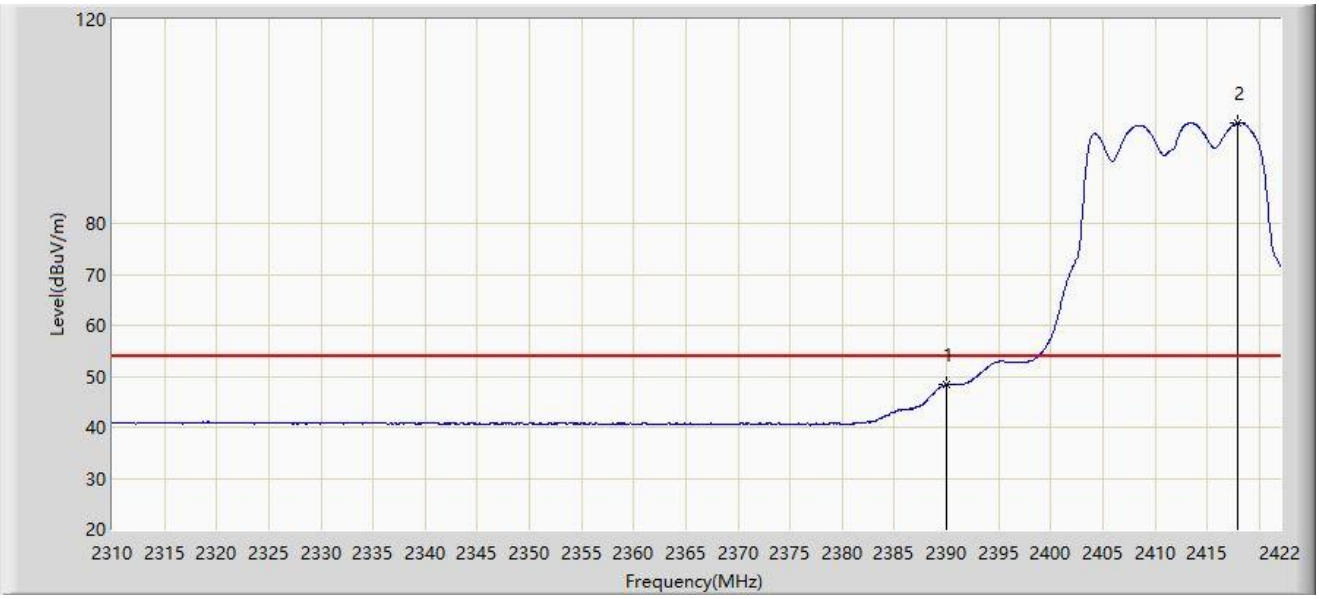
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	2390.000	70.136	38.978	-3.864	74.000	31.158	PK
2		2417.688	108.754	77.627	N/A	N/A	31.127	PK

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: WZ-AC1	Test Date: 2023-08-11
Limit: FCC_2.4G_RE(3m)	Engineer: Ajin Fan
Probe: BBHA9120D_1167_1-18GHz	Polarity: Vertical
EUT: HPE Aruba User Experience Sensor	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11g at 2412MHz	



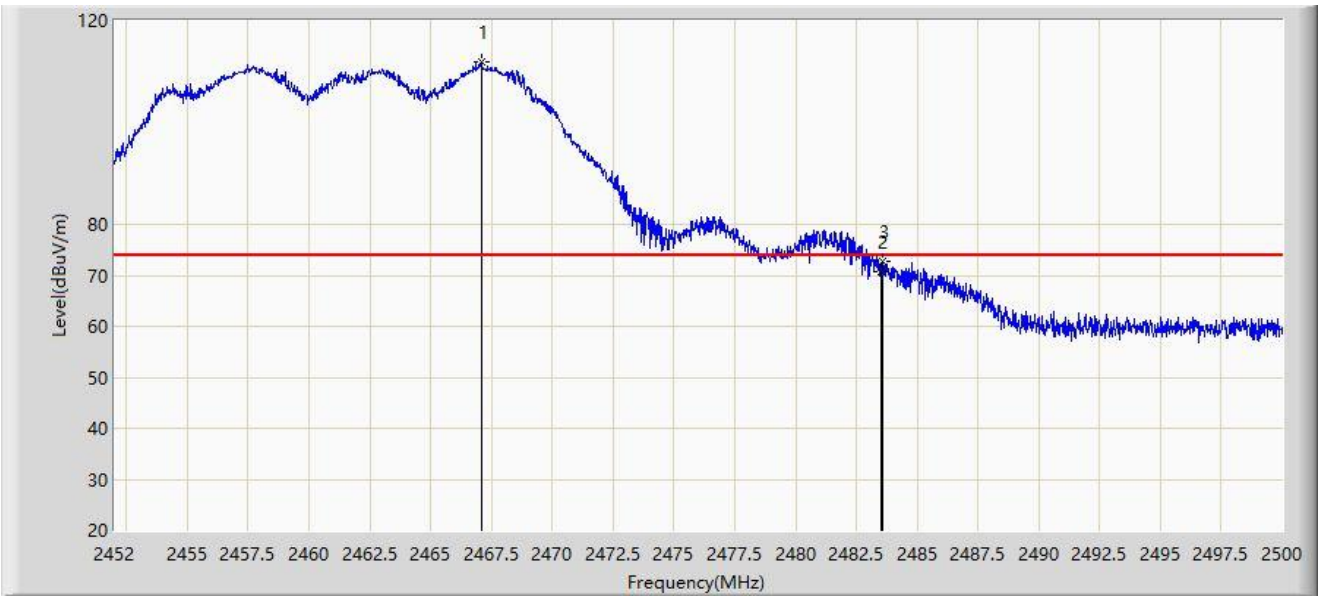
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	2390.000	48.367	17.209	-5.633	54.000	31.158	AV
2		2417.912	99.671	68.544	N/A	N/A	31.127	AV

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: WZ-AC2	Test Date: 2023-06-19
Limit: FCC_2.4G_RE(3m)	Engineer: Bob Zhang
Probe: BBHA9120D_1457_1-18GHz	Polarity: Horizontal
EUT: HPE Aruba User Experience Sensor	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11g at 2462MHz	



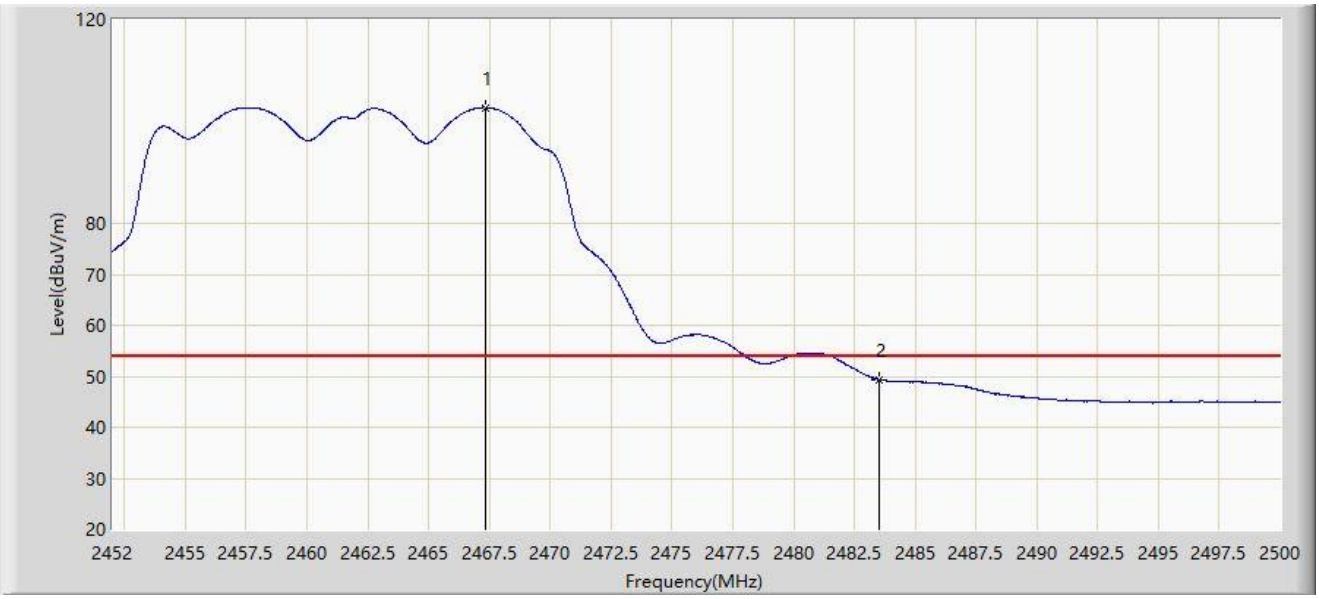
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		2467.096	111.860	80.367	N/A	N/A	31.493	PK
2		2483.500	70.606	39.106	-3.394	74.000	31.500	PK
3	*	2483.560	72.828	41.327	-1.172	74.000	31.501	PK

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: WZ-AC2	Test Date: 2023-06-19
Limit: FCC_2.4G_RE(3m)	Engineer: Bob Zhang
Probe: BBHA9120D_1457_1-18GHz	Polarity: Horizontal
EUT: HPE Aruba User Experience Sensor	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11g at 2462MHz	



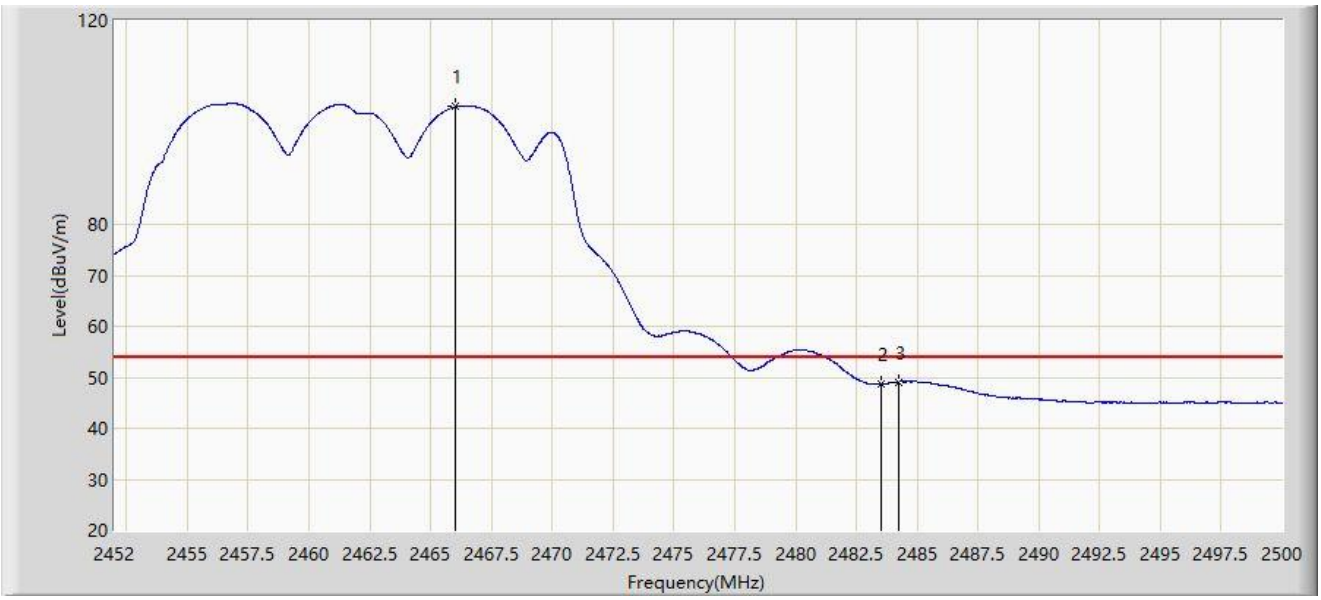
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		2467.360	102.747	71.253	N/A	N/A	31.494	AV
2	*	2483.500	49.403	17.903	-4.597	54.000	31.500	AV

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: WZ-AC2	Test Date: 2023-06-19
Limit: FCC_2.4G_RE(3m)	Engineer: Bob Zhang
Probe: BBHA9120D_1457_1-18GHz	Polarity: Vertical
EUT: HPE Aruba User Experience Sensor	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11g at 2462MHz	



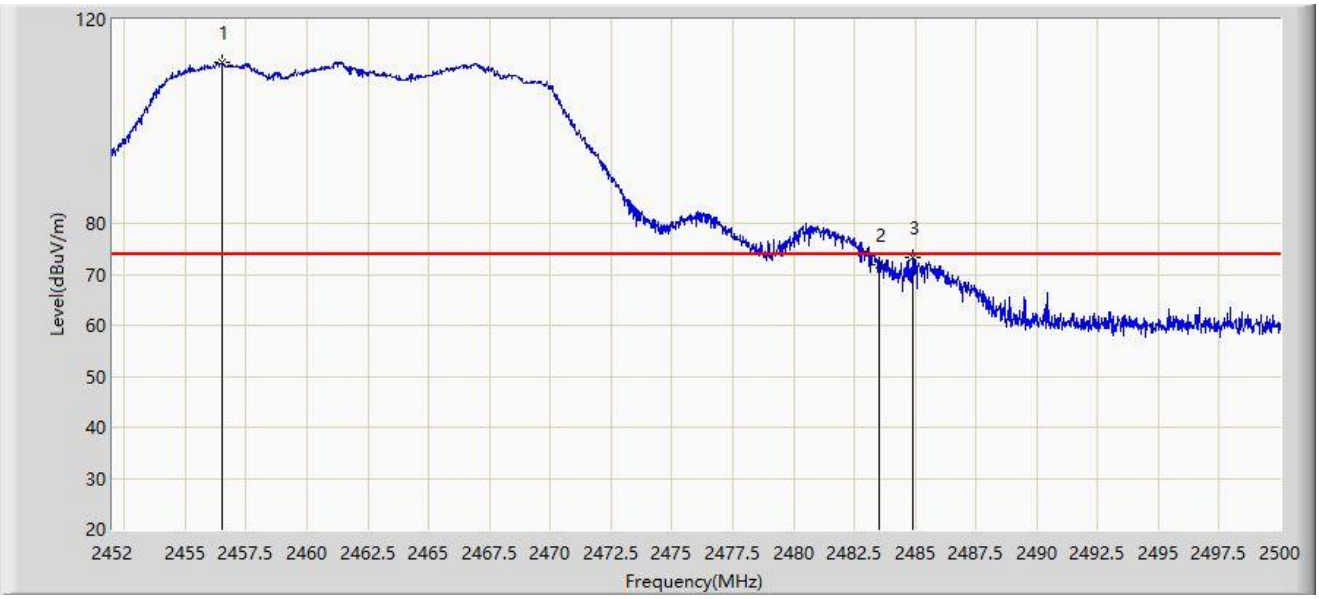
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		2466.016	103.096	71.604	N/A	N/A	31.492	AV
2		2483.500	48.707	17.207	-5.293	54.000	31.500	AV
3	*	2484.232	49.096	17.595	-4.904	54.000	31.501	AV

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: WZ-AC2	Test Date: 2023-06-19
Limit: FCC_2.4G_RE(3m)	Engineer: Bob Zhang
Probe: BBHA9120D_1457_1-18GHz	Polarity: Vertical
EUT: HPE Aruba User Experience Sensor	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11g at 2462MHz	



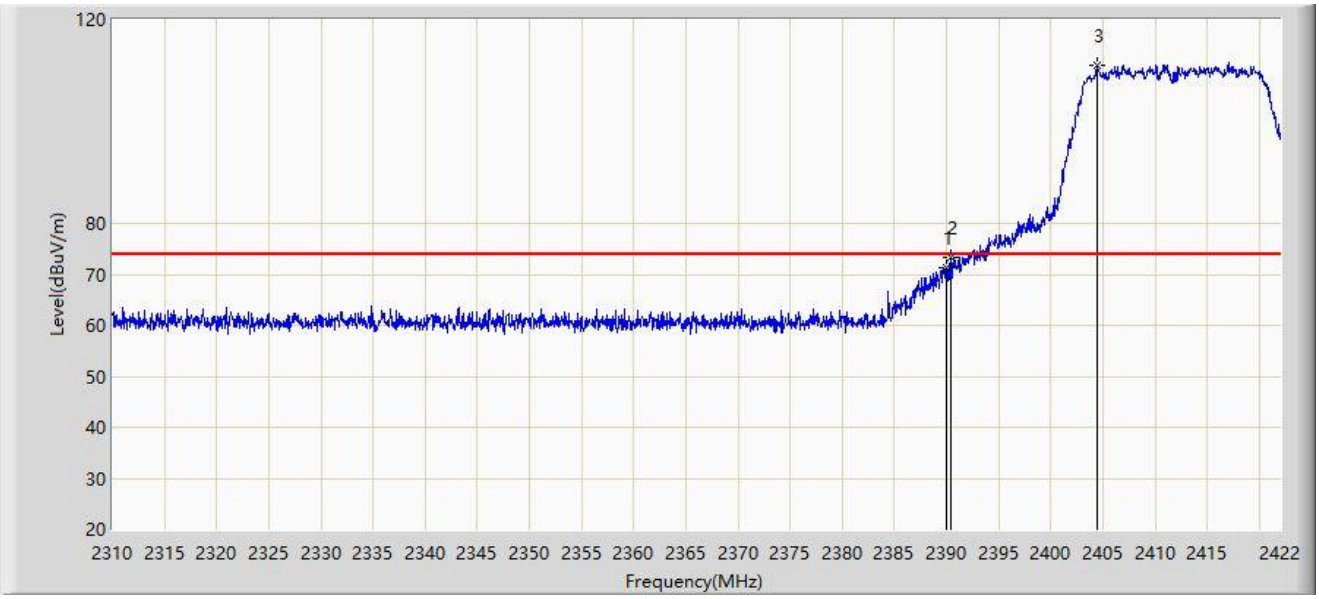
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		2456.488	111.521	80.039	N/A	N/A	31.482	PK
2		2483.500	71.741	40.241	-2.259	74.000	31.500	PK
3	*	2484.880	73.215	41.714	-0.785	74.000	31.501	PK

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: WZ-AC2	Test Date: 2023-06-20
Limit: FCC_2.4G_RE(3m)	Engineer: Bob Zhang
Probe: BBHA9120D_1457_1-18GHz	Polarity: Horizontal
EUT: HPE Aruba User Experience Sensor	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT20 at 2412MHz	



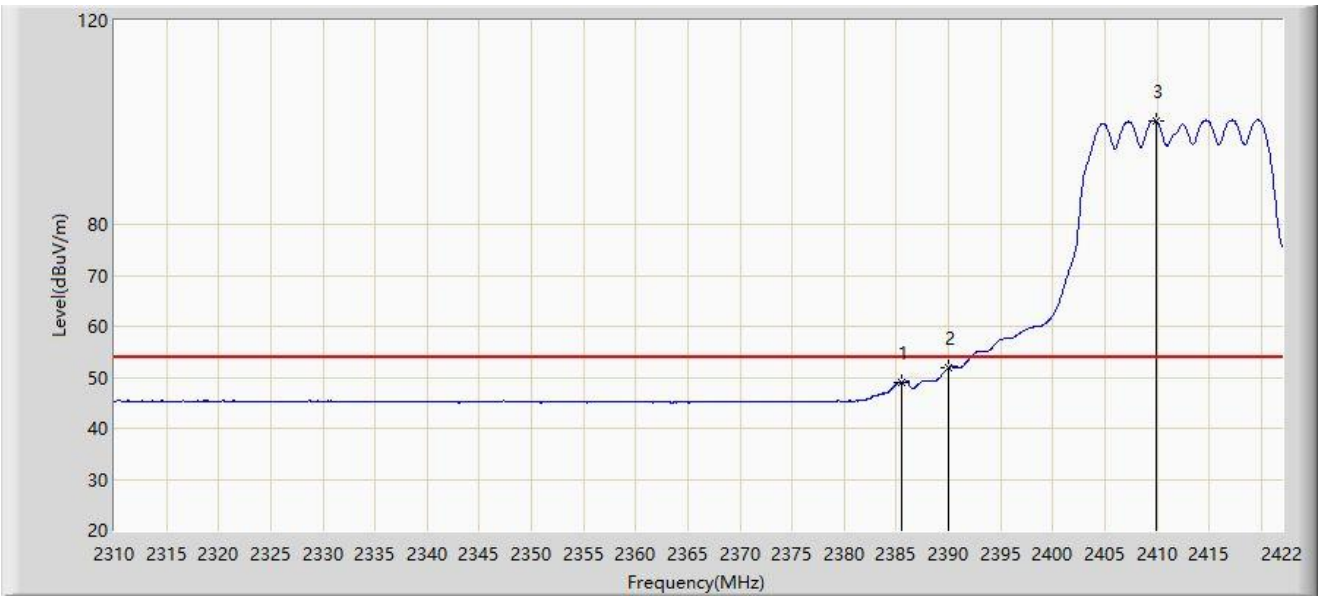
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		2390.000	71.203	39.588	-2.797	74.000	31.615	PK
2	*	2390.416	73.410	41.798	-0.590	74.000	31.612	PK
3		2404.416	111.098	79.556	N/A	N/A	31.542	PK

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: WZ-AC2	Test Date: 2023-06-20
Limit: FCC_2.4G_RE(3m)	Engineer: Bob Zhang
Probe: BBHA9120D_1457_1-18GHz	Polarity: Horizontal
EUT: HPE Aruba User Experience Sensor	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT20 at 2412MHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		2385.488	49.052	17.409	-4.948	54.000	31.643	AV
2	*	2390.000	51.862	20.247	-2.138	54.000	31.615	AV
3		2409.904	100.290	68.764	N/A	N/A	31.526	AV

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).