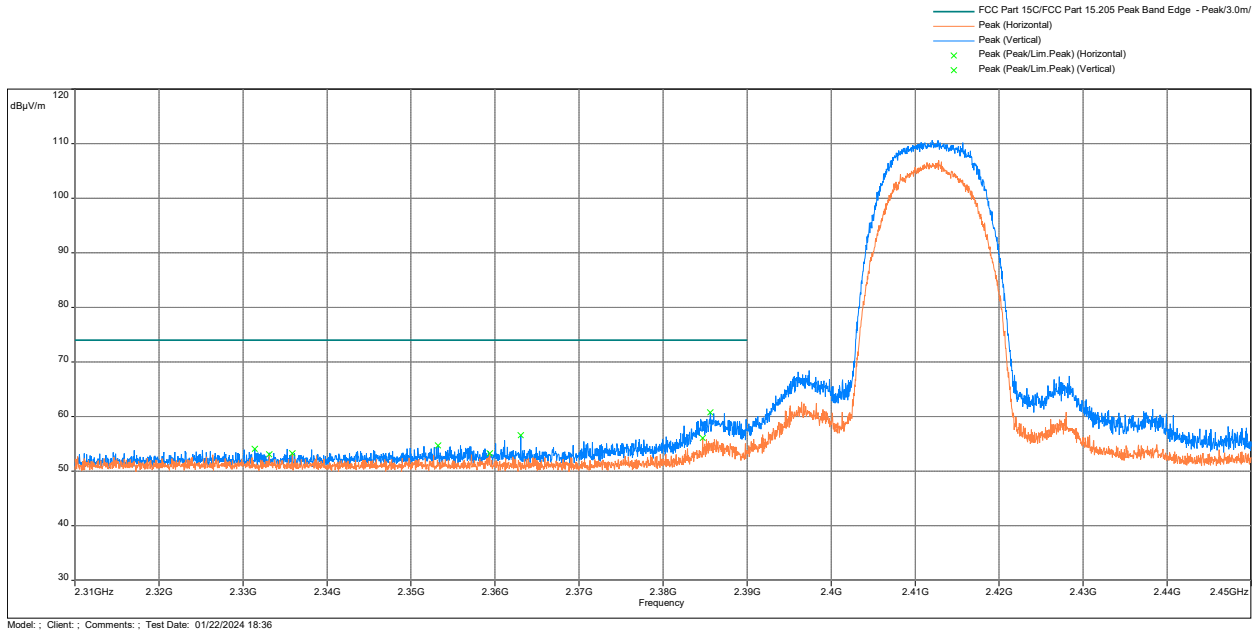
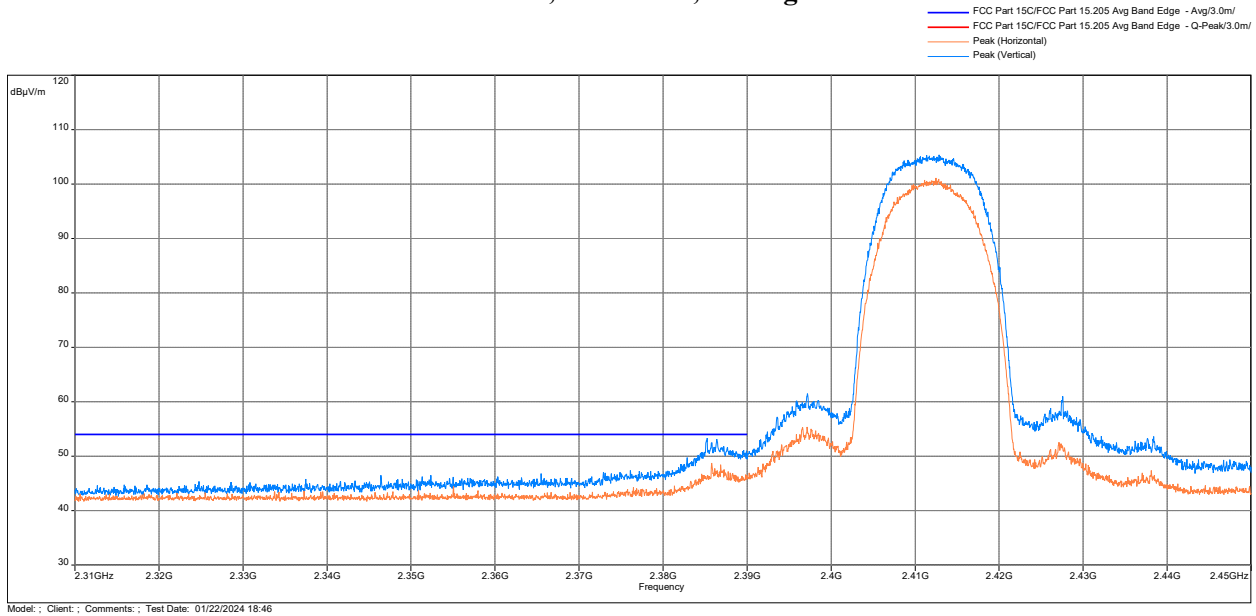


Test Results: 15.209/15.205 Radiated Restricted Band Emissions

**Out-of-Band Spurious Emissions at the Band Edge @1m distance
802.11b, 2412 MHz, Peak**

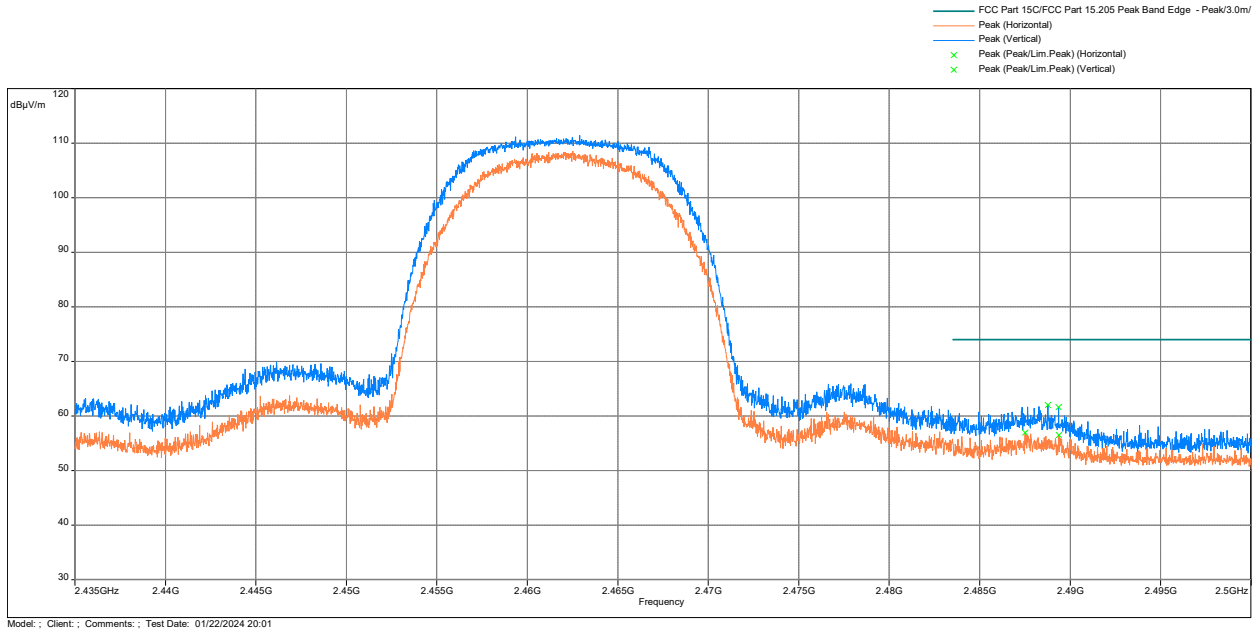


802.11b, 2412 MHz, Average

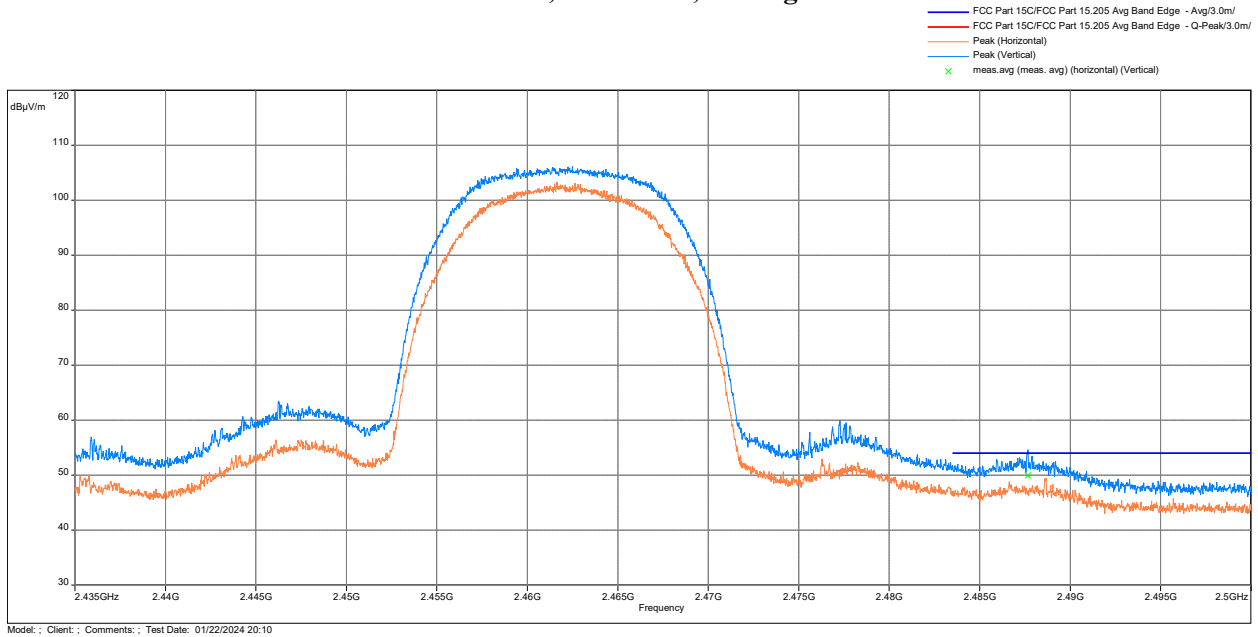


Freq. MHz	Ave@3m dB(µV/m)	Ave Limit dB(µV/m)	Margin dB	Height m	Azimuth deg	Polarity	Correction dB
2385.25	53.3	54	-0.7	1.51	308.5	Vertical	23.08
2386.384	53.11	54	-0.89	1.51	308.5	Vertical	23.09
2390.0	50.69	54	-3.31	1.51	308.5	Vertical	23.12

Out-of-Band Spurious Emissions at the Band Edge @1m distance 802.11b, 2462 MHz, Peak

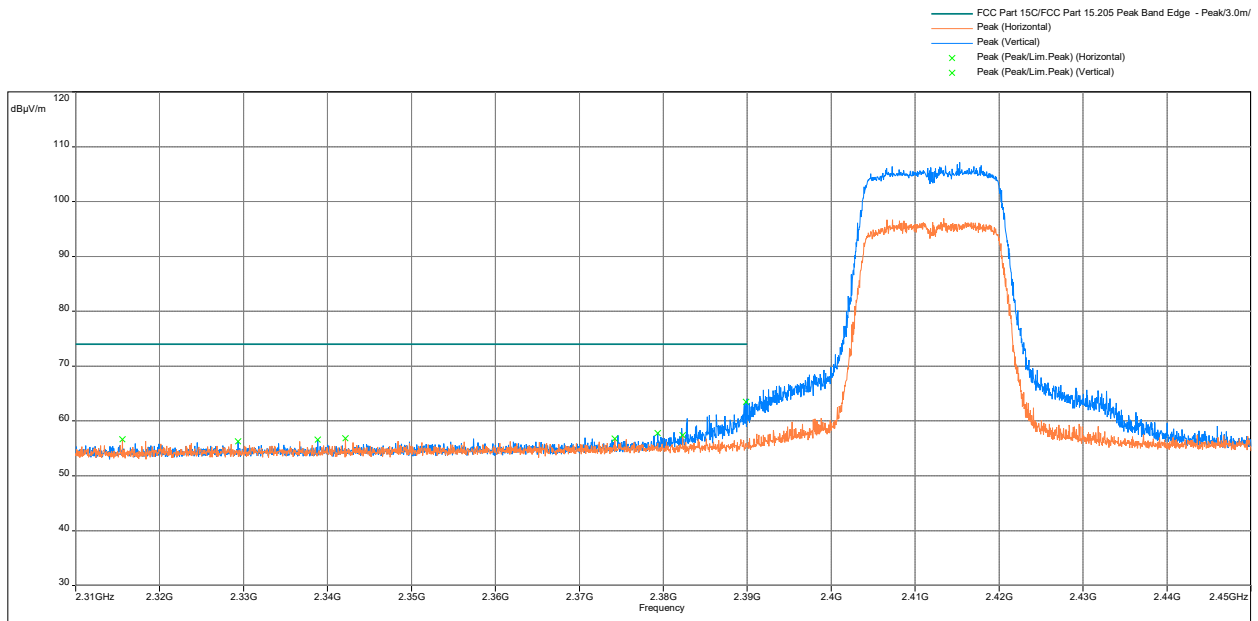


802.11b, 2462 MHz, Average

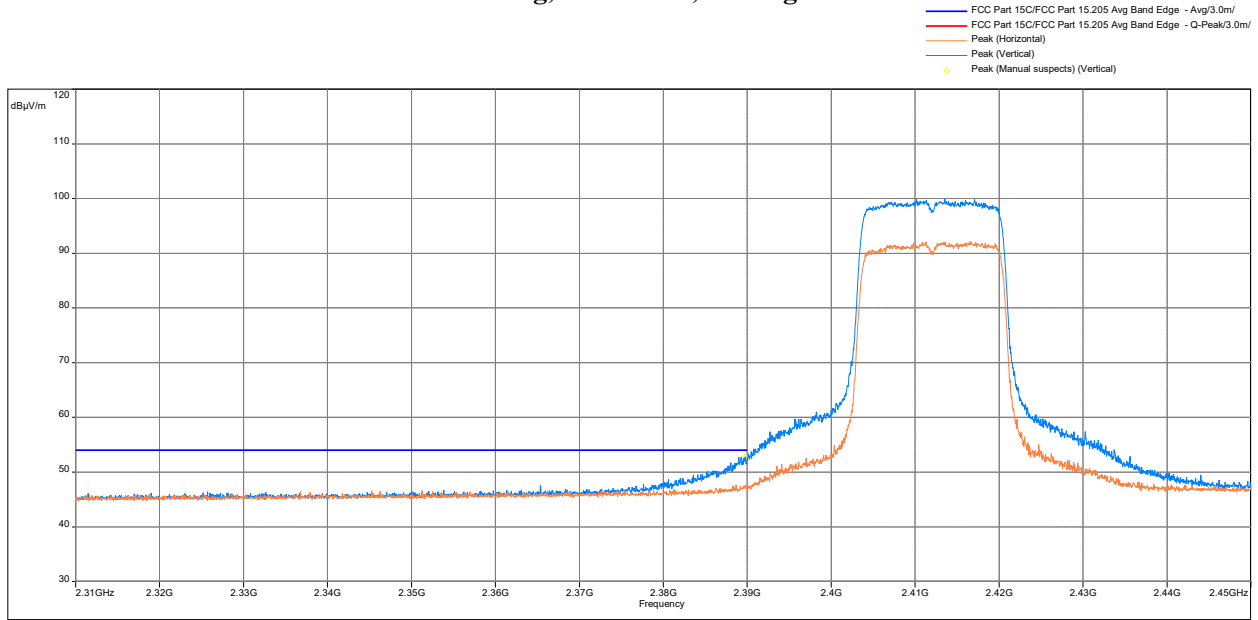


Freq. MHz	Ave@3m dB(µV/m)	Ave Limit dB(µV/m)	Margin dB	Height m	Azimuth deg	Polarity	Correction dB
2483.5	52	54	-2	1.51	310	Vertical	23.45
2487.33	49.92	54	-4.08	1.5	310	Vertical	23.37
2489.186	52.56	54	-1.44	1.51	307.25	Vertical	23.33
2485.923	52.97	54	-1.03	1.51	310	Vertical	23.4
2487.884	53.54	54	-0.46	1.51	310	Vertical	23.36

Out-of-Band Spurious Emissions at the Band Edge @1m distance 802.11g, 2412 MHz, Peak

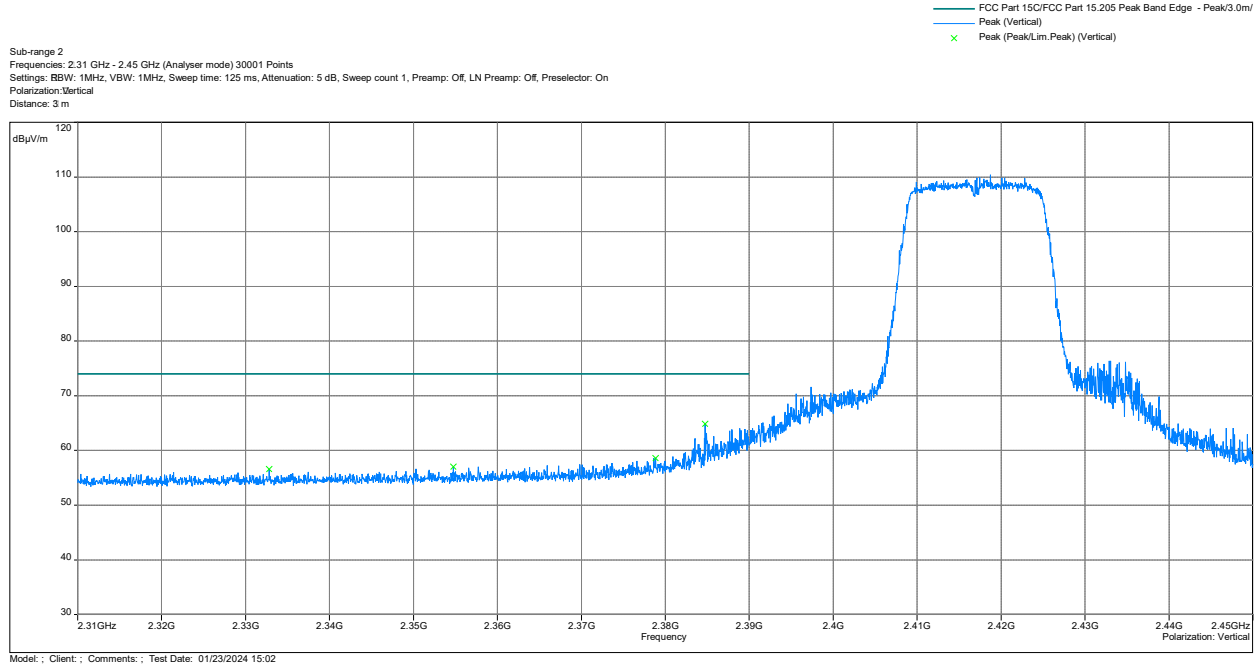


802.11g, 2412 MHz, Average

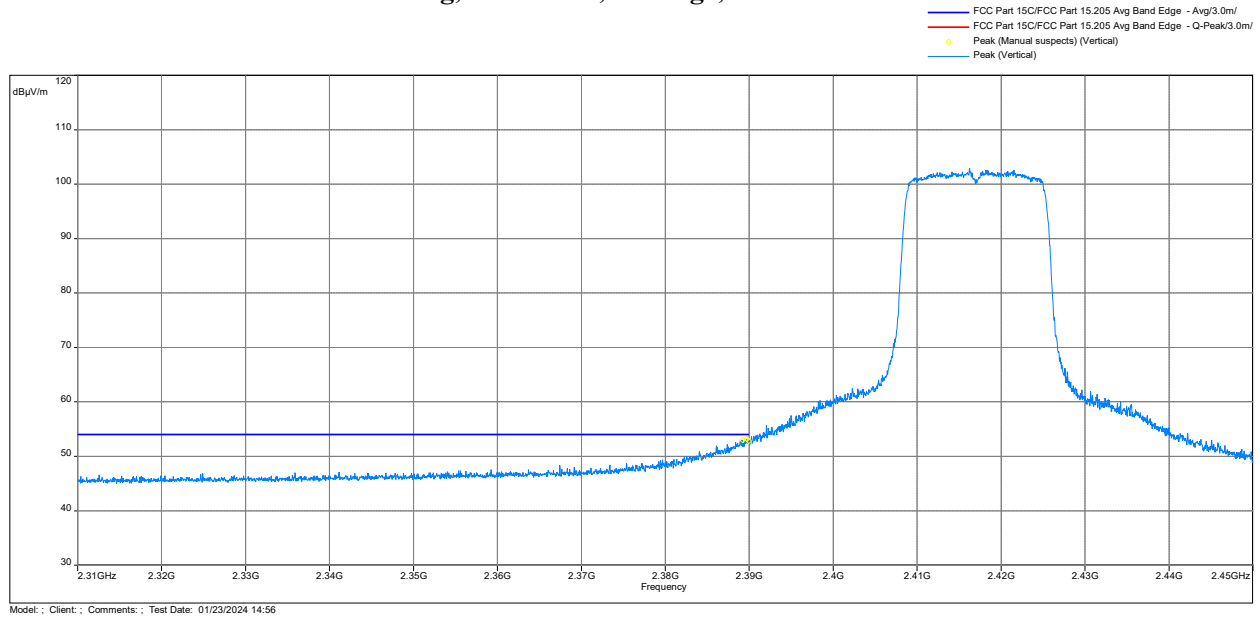


Freq. MHz	Ave@3m dB(µV/m)	Ave Limit dB(µV/m)	Margin dB	Height m	Azimuth deg	Polarity	Correction dB
2390	52.81	54	-1.19	1.5	98	Vertical	27.32

Out-of-Band Spurious Emissions at the Band Edge @1m distance 802.11g, 2417 MHz, Peak

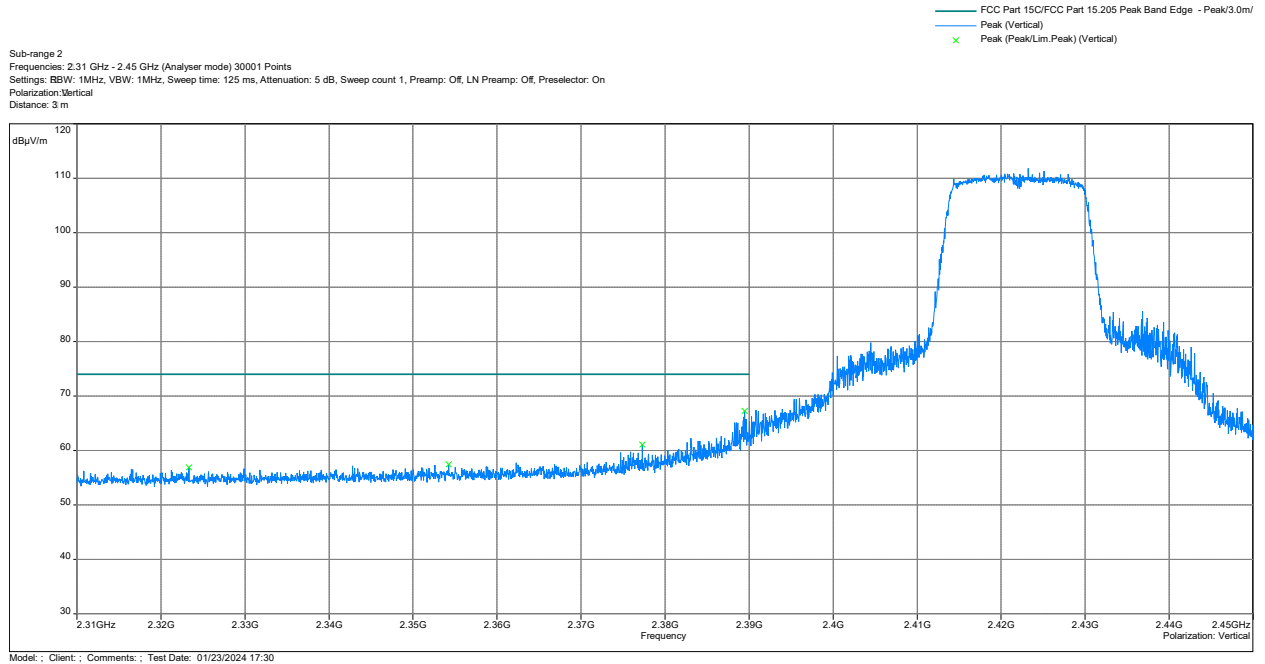


802.11g, 2417 MHz, Average, Normal Mode

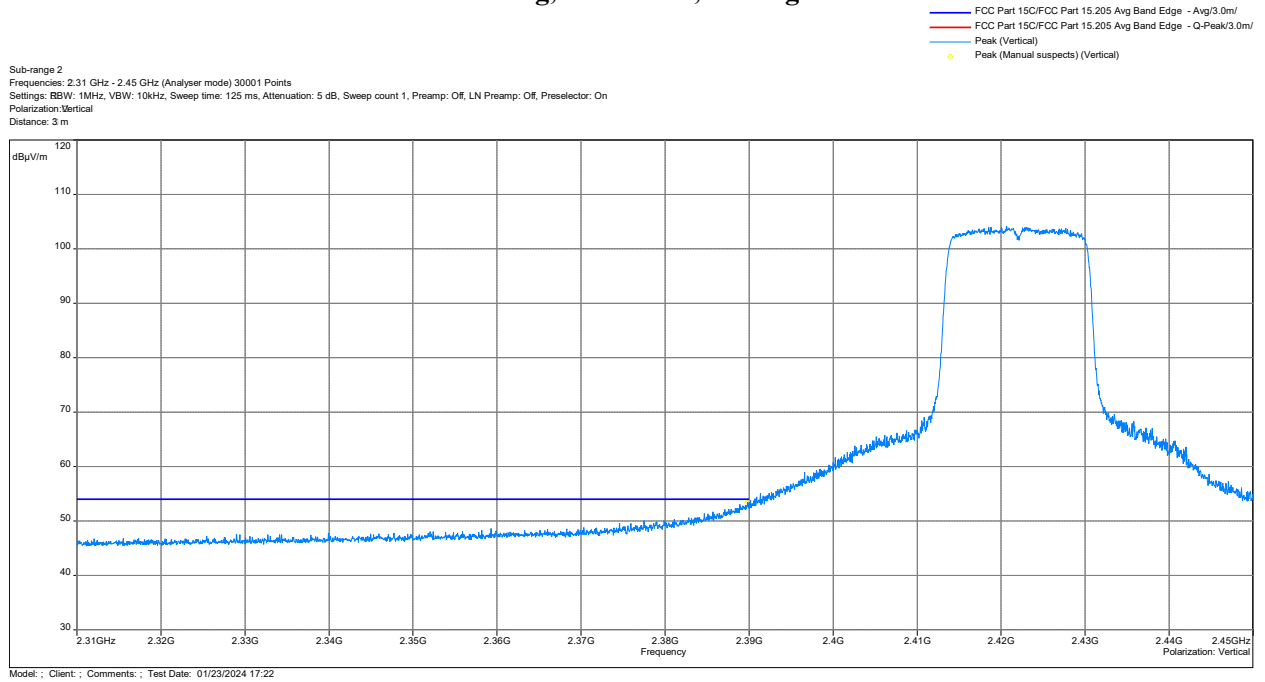


Freq. MHz	Ave@3m dB(µV/m)	Ave Limit dB(µV/m)	Margin dB	Height m	Azimuth deg	Polarity	Correction dB
2390.00	53.18	54	-0.82	1.5	94.5	Vertical	27.32
2389.198	53	54	-1	1.5	94.5	Vertical	27.31
2389.959	52.81	54	-1.19	1.5	112	Vertical	27.32

Out-of-Band Spurious Emissions at the Band Edge @1m distance 802.11g, 2422 MHz, Peak

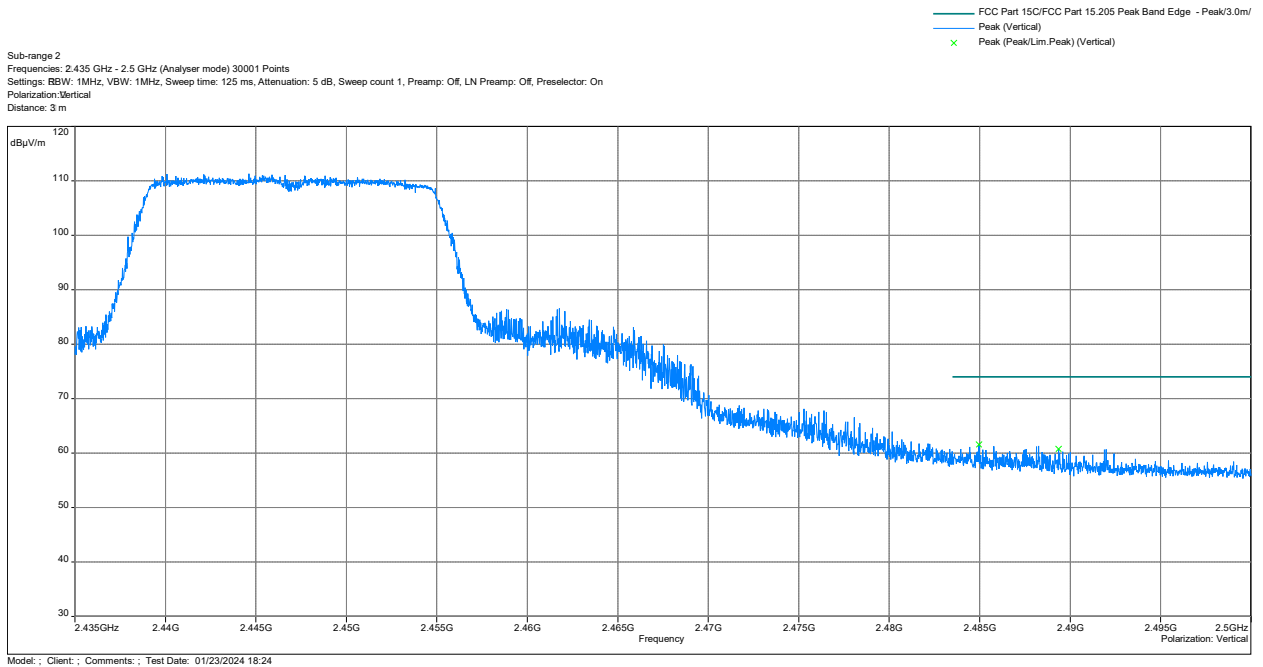


802.11g, 2422 MHz, Average

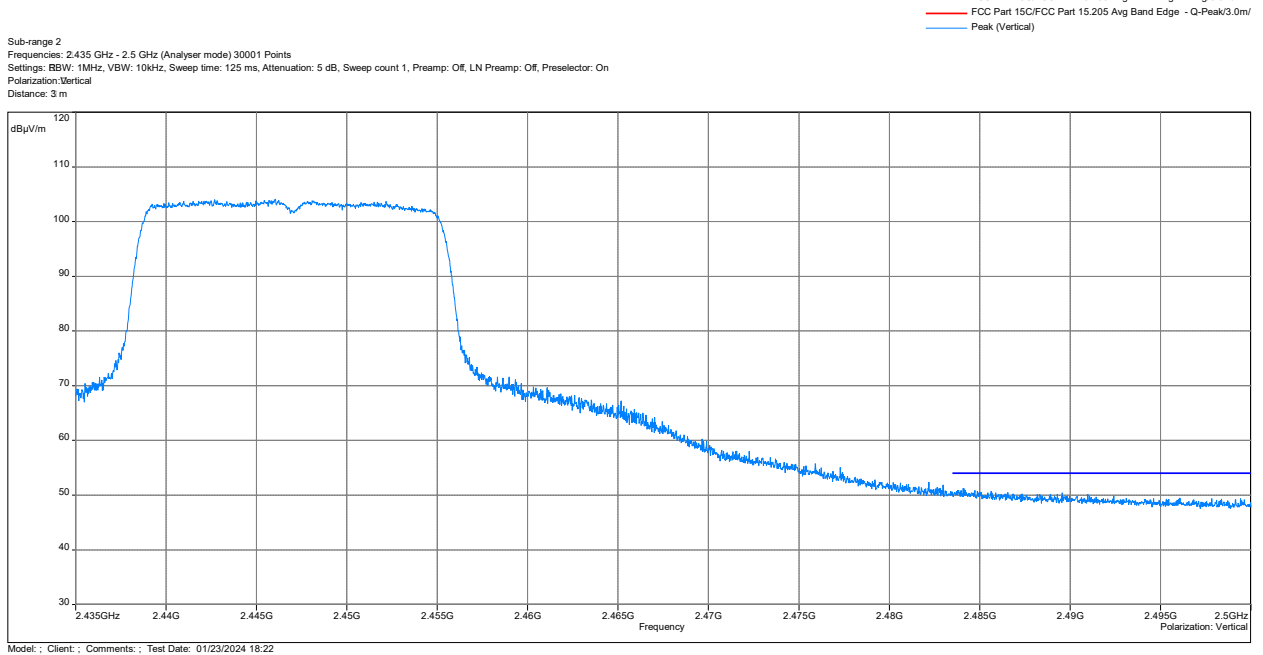


Freq. MHz	Ave@3m dB(µV/m)	Ave Limit dB(µV/m)	Margin dB	Height m	Azimuth deg	Polarity	Correction dB
2390.0	53.47	54	-0.53	1.5	95	Vertical	27.32

Out-of-Band Spurious Emissions at the Band Edge @1m distance 802.11g, 2447 MHz, Peak



802.11g, 2447 MHz, Average

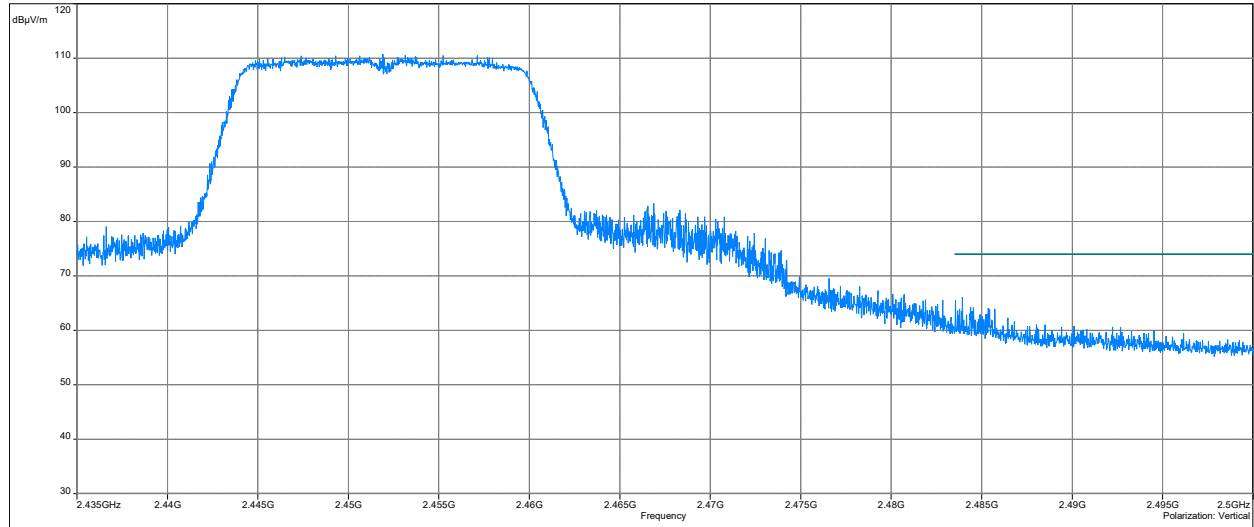


Freq. MHz	Ave@3m dB(µV/m)	Ave Limit dB(µV/m)	Margin dB	Height m	Azimuth deg	Polarity	Correction dB
2484.079	51.25	54	-2.75	1.51	86.5	Vertical	27.35

Out-of-Band Spurious Emissions at the Band Edge @1m distance 802.11g, 2452 MHz, Peak

Sub-range 2
Frequencies: 2.435 GHz - 2.5 GHz (Analyser mode) 30001 Points
Settings: RBW: 1MHz, VBW: 1MHz, Sweep time: 125 ms, Attenuation: 5 dB, Sweep count 1, Preamp: Off, LN Preamp: Off, Preselector: On
Polarization: Vertical
Distance: 3 m

— FCC Part 15C/FCC Part 15.205 Peak Band Edge - Peak/3.0m/
— Peak (Vertical)

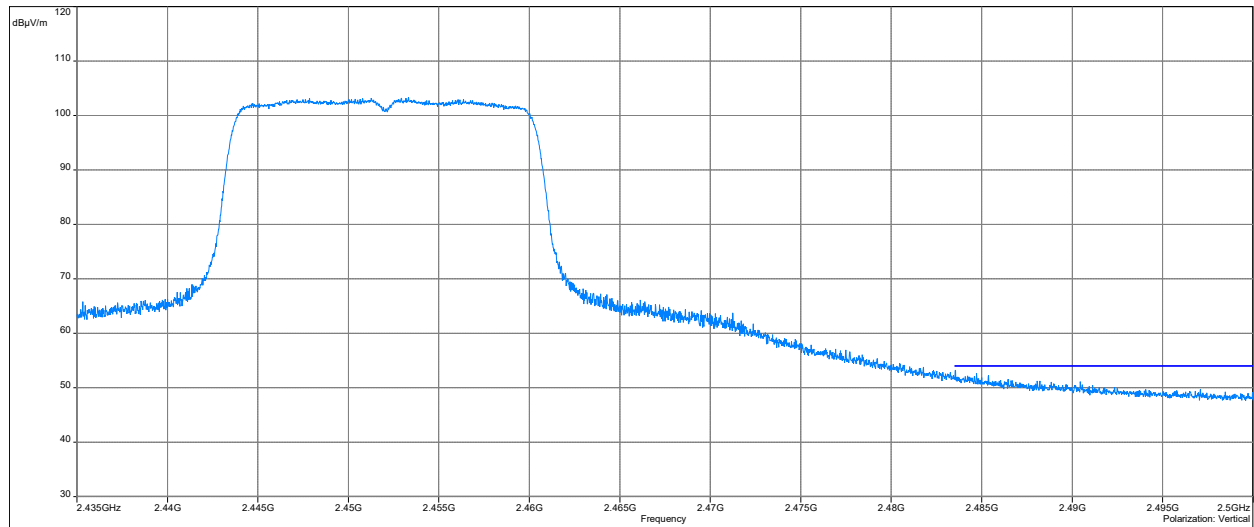


Model: ; Client: ; Comments: ; Test Date: 01/23/2024 18:06

802.11g, 2452 MHz, Average

Sub-range 2
Frequencies: 2.435 GHz - 2.5 GHz (Analyser mode) 30001 Points
Settings: RBW: 1MHz, VBW: 10kHz, Sweep time: 125 ms, Attenuation: 5 dB, Sweep count 1, Preamp: Off, LN Preamp: Off, Preselector: On
Polarization: Vertical
Distance: 3 m

— FCC Part 15C/FCC Part 15.205 Avg Band Edge - Avg/3.0m/
— FCC Part 15C/FCC Part 15.205 Avg Band Edge - Q-Peak/3.0m/
— Peak (Vertical)



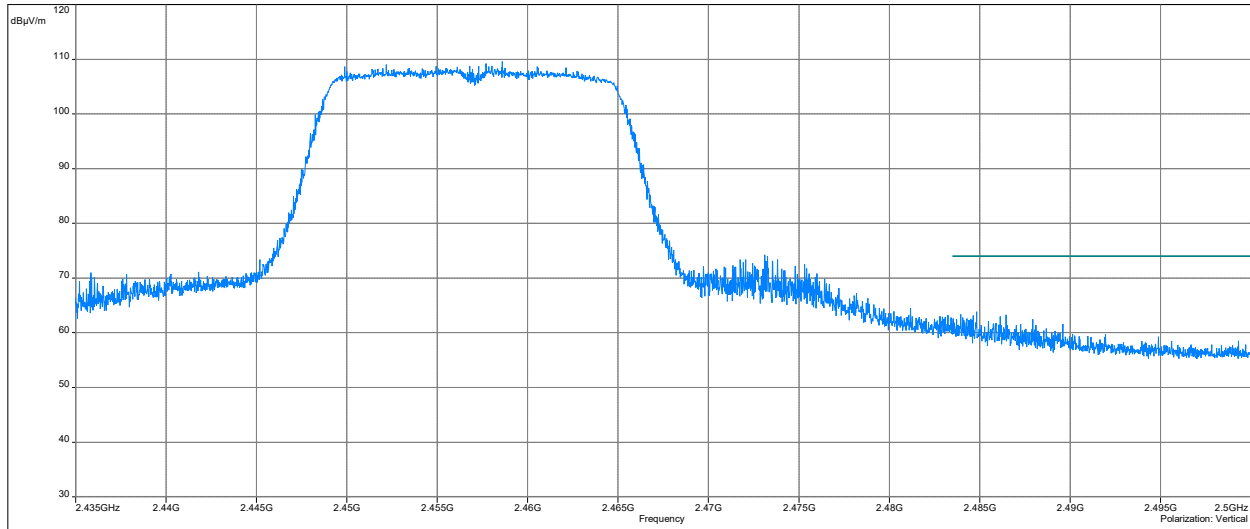
Model: ; Client: ; Comments: ; Test Date: 01/23/2024 18:04

Freq. MHz	Ave@3m dB(µV/m)	Ave Limit dB(µV/m)	Margin dB	Height m	Azimuth deg	Polarity	Correction dB
2483.5	53.22	54	-0.78	1.51	90.5	Vertical	27.35

Out-of-Band Spurious Emissions at the Band Edge @1m distance 802.11g, 2457 MHz, Peak

Sub-range 2
Frequencies: 2.435 GHz - 2.5 GHz (Analyser mode) 30001 Points
Settings: BBW: 1MHz, VBW: 1MHz, Sweep time: 125 ms, Attenuation: 5 dB, Sweep count 1, Preamp: Off, LN Preamp: Off, Preselector: On
Polarization: Vertical
Distance: 3 m

FCC Part 15C/FCC Part 15.205 Peak Band Edge - Peak/3.0m/
Peak (Vertical)

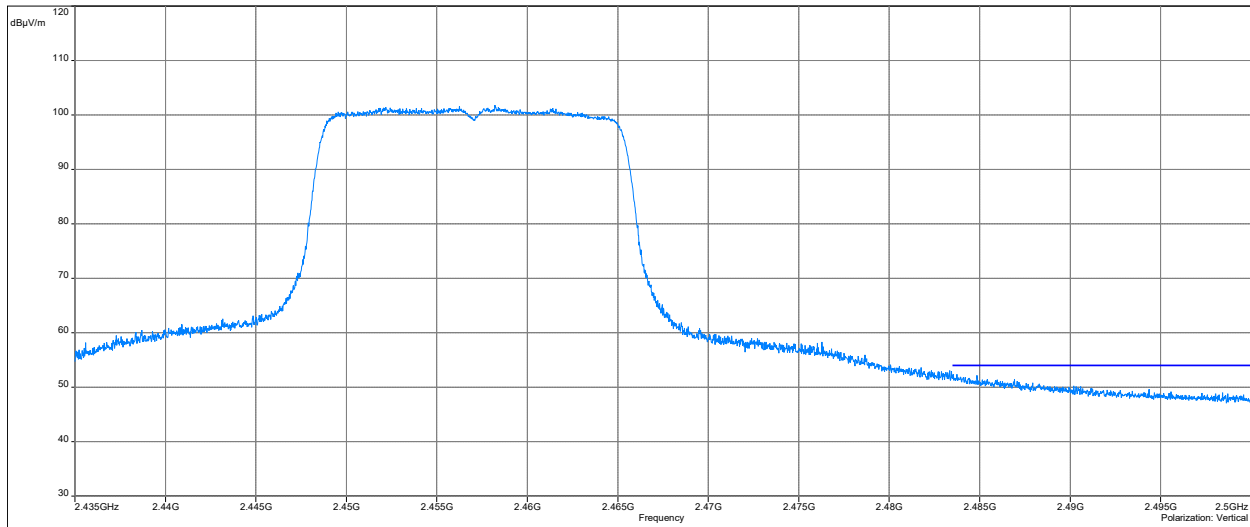


Model: ; Client: ; Comments: ; Test Date: 01/23/2024 14:37

802.11g, 2457 MHz, Average

Sub-range 2
Frequencies: 2.435 GHz - 2.5 GHz (Analyser mode) 30001 Points
Settings: BBW: 1MHz, VBW: 10kHz, Sweep time: 125 ms, Attenuation: 5 dB, Sweep count 1, Preamp: Off, LN Preamp: Off, Preselector: On
Polarization: Vertical
Distance: 3 m

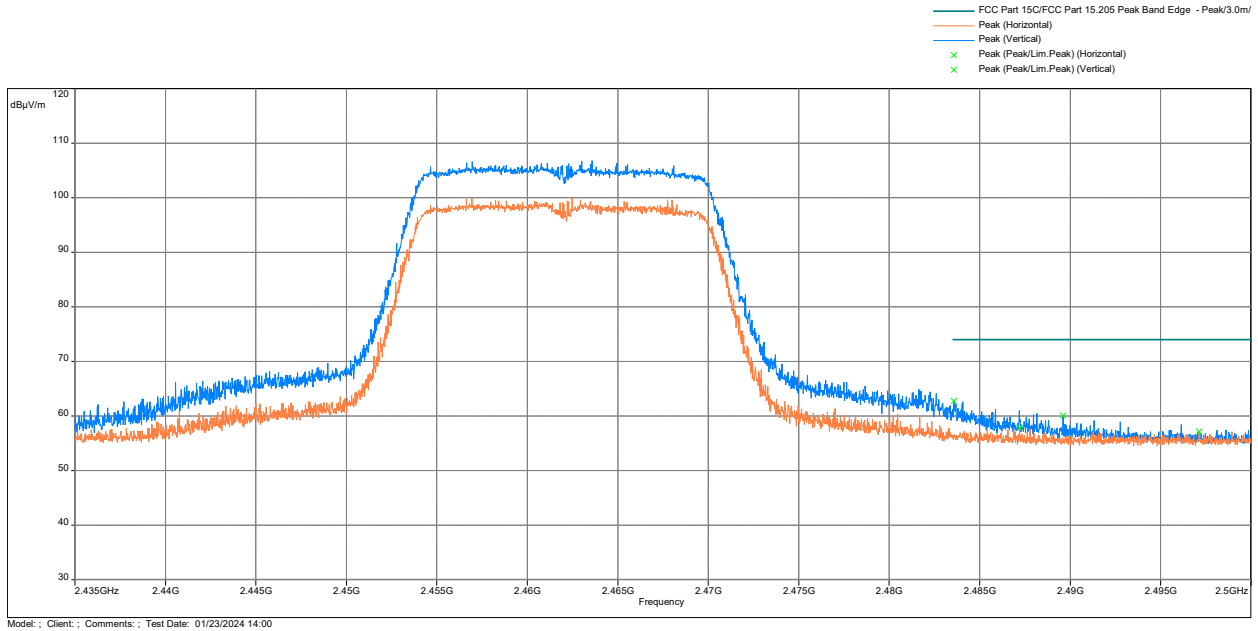
FCC Part 15C/FCC Part 15.205 Avg Band Edge - Avg/3.0m/
FCC Part 15C/FCC Part 15.205 Avg Band Edge - Q-Peak/3.0m/
Peak (Vertical)



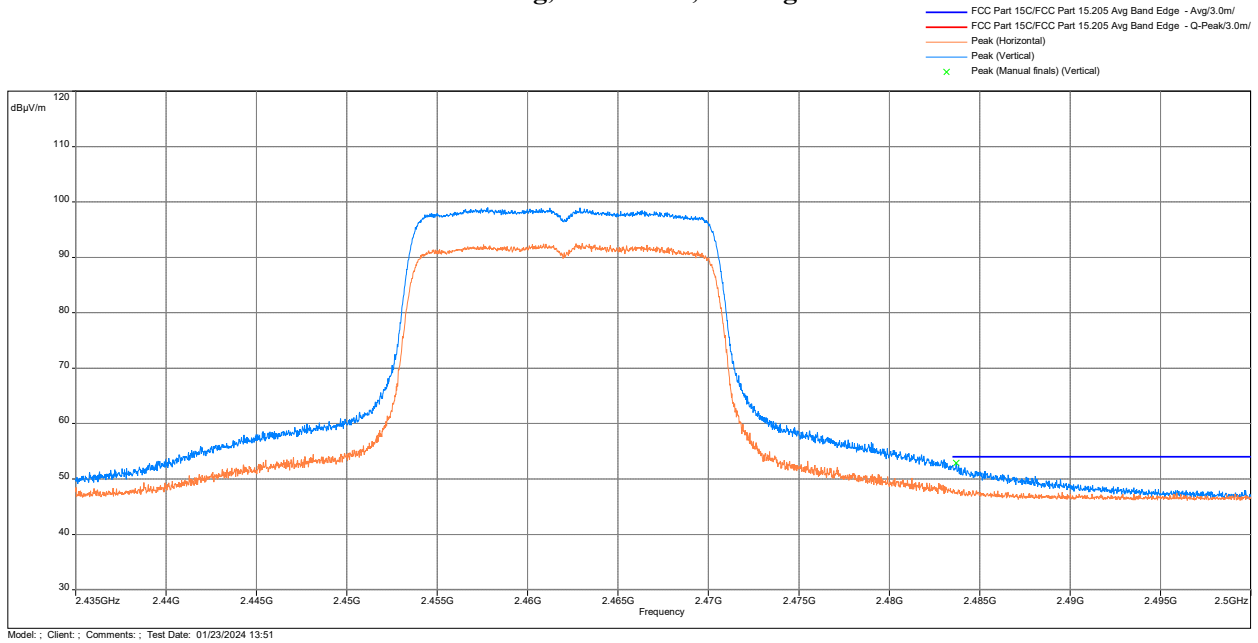
Model: ; Client: ; Comments: ; Test Date: 01/23/2024 14:31

Freq. MHz	Ave@3m dB(µV/m)	Ave Limit dB(µV/m)	Margin dB	Height m	Azimuth deg	Polarity	Correction dB
2483.5	52.38	54	-1.62	1.51	92.25	Vertical	27.35
2483.733	52.41	54	-1.59	1.51	96	Vertical	27.35
2484.846	52.2	54	-1.8	1.51	99.25	Vertical	27.35

Out-of-Band Spurious Emissions at the Band Edge @1m distance 802.11g, 2462 MHz, Peak

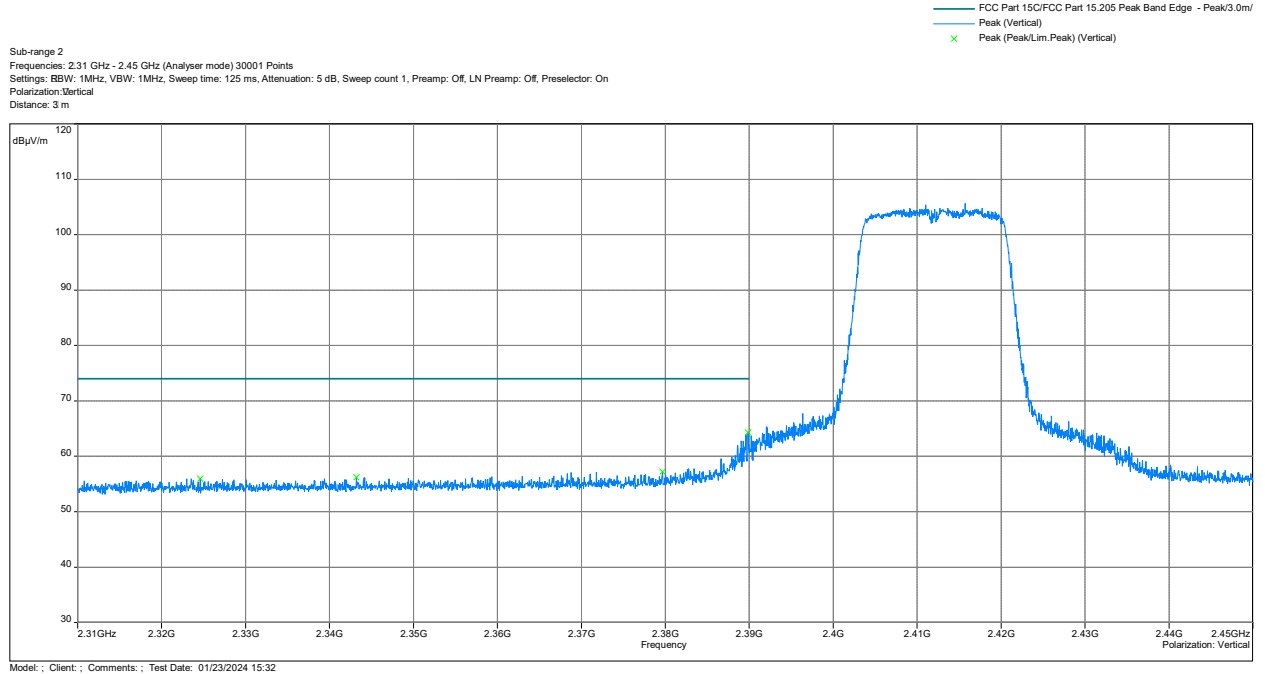


802.11g, 2462 MHz, Average

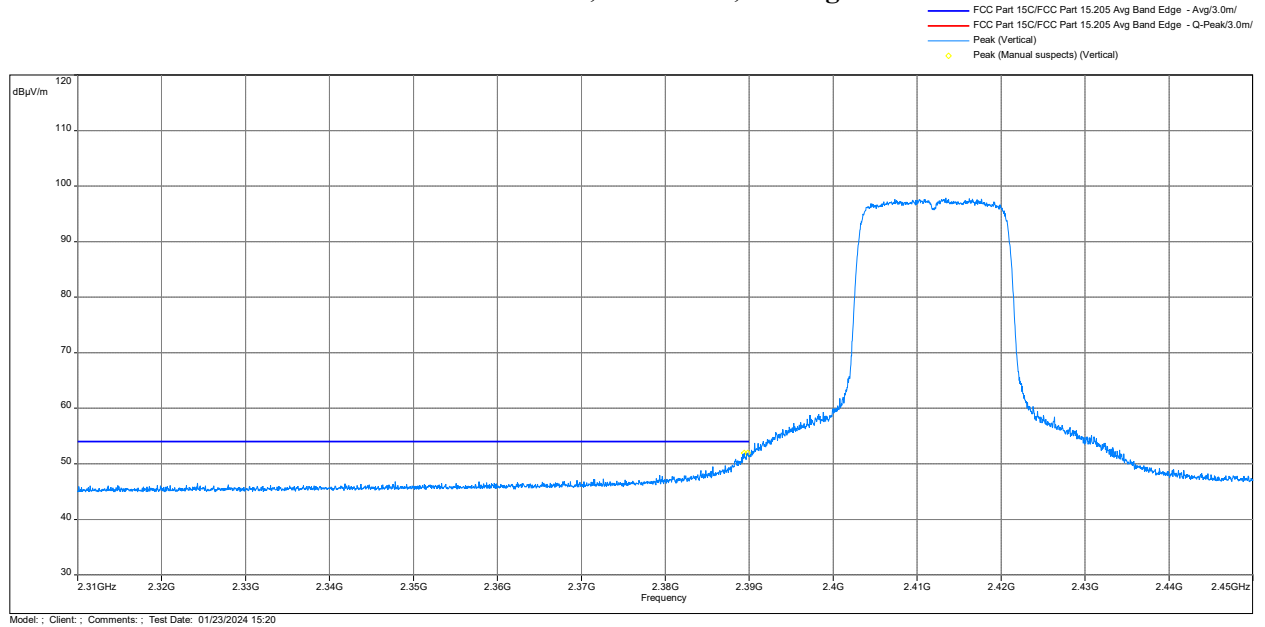


Freq. MHz	Ave@3m dB(uV/m)	Ave Limit dB(µV/m)	Margin dB	Height m	Azimuth deg	Polarity	Correction dB
2483.5	52.88	54	-1.12	1.51	102.25	Vertical	27.35

Out-of-Band Spurious Emissions at the Band Edge @1m distance 802.11n HT20, 2412 MHz, Peak

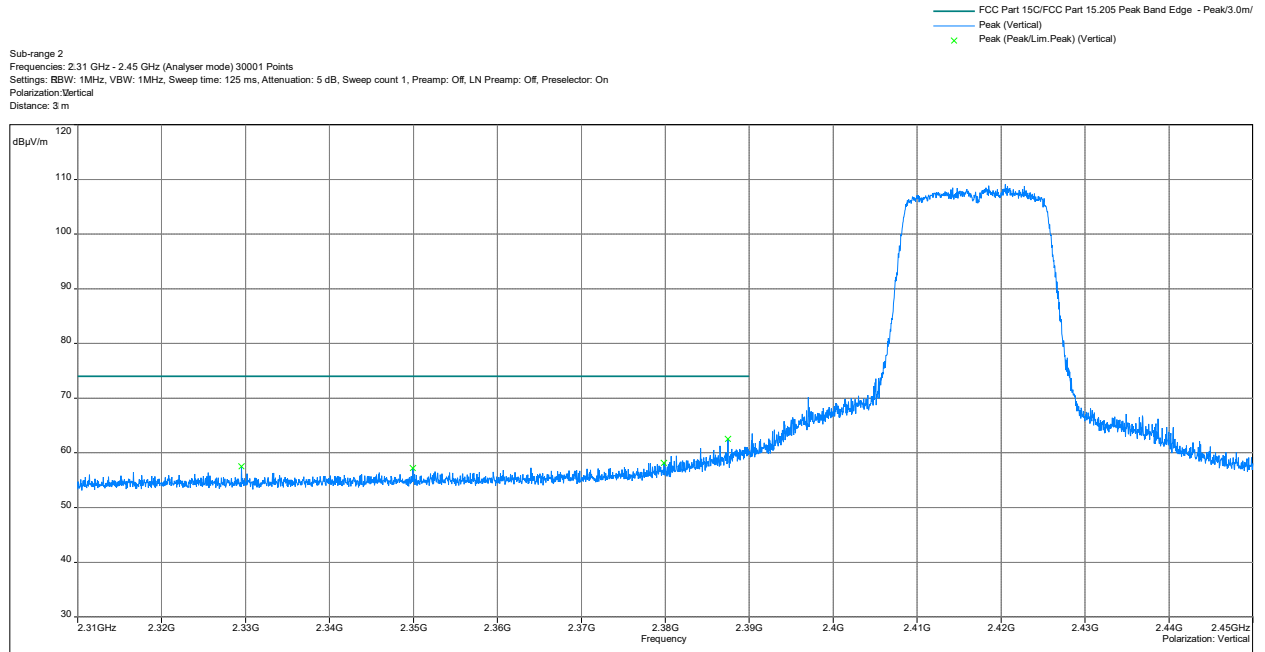


802.11n HT20, 2412 MHz, Average

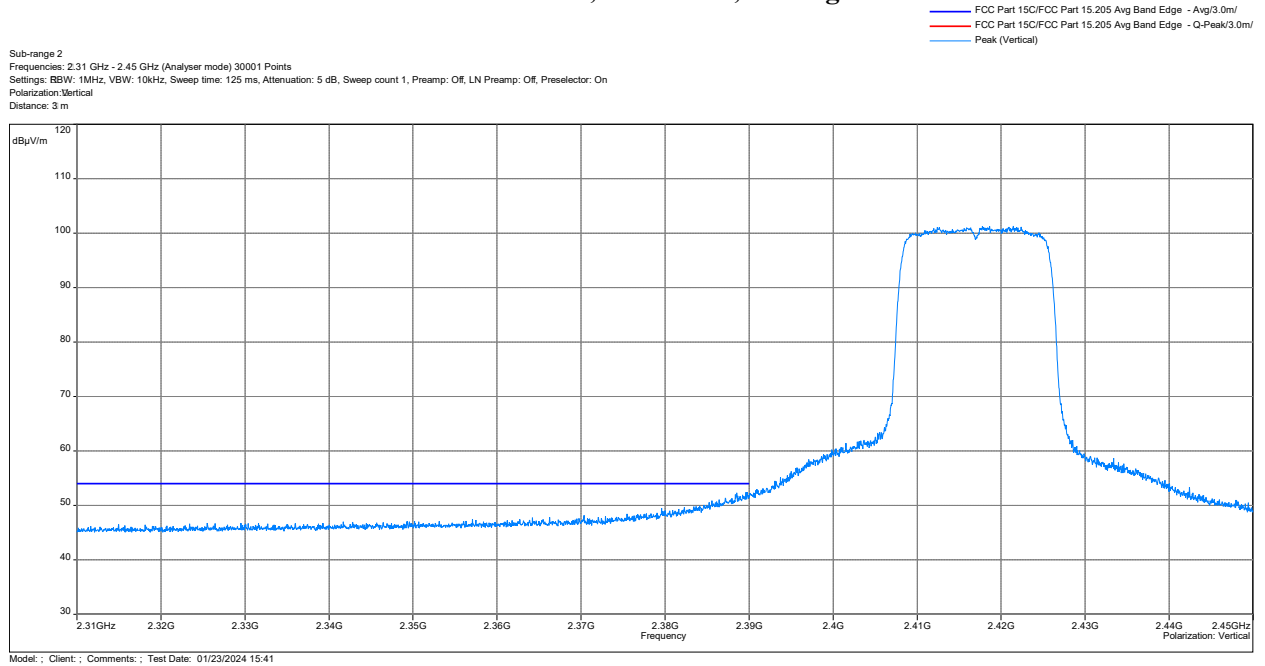


Freq. MHz	Ave@3m dB(uV/m)	Ave Limit dB(uV/m)	Margin dB	Height m	Azimuth deg	Polarity	Correction dB
2389.385	51.93	54	-2.07	1.51	109	Vertical	27.32
2390.0	51.96	54	-2.04	1.51	112.75	Vertical	27.32

Out-of-Band Spurious Emissions at the Band Edge @1m distance 802.11n HT20, 2417 MHz, Peak

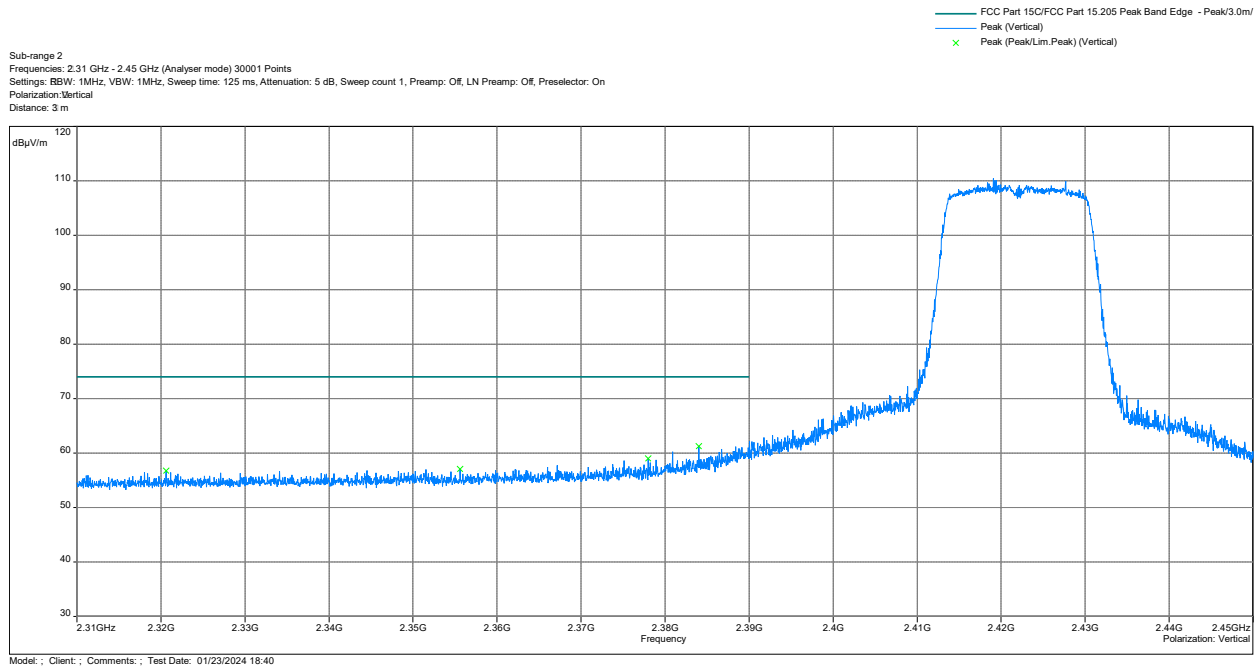


802.11n HT20, 2417 MHz, Average

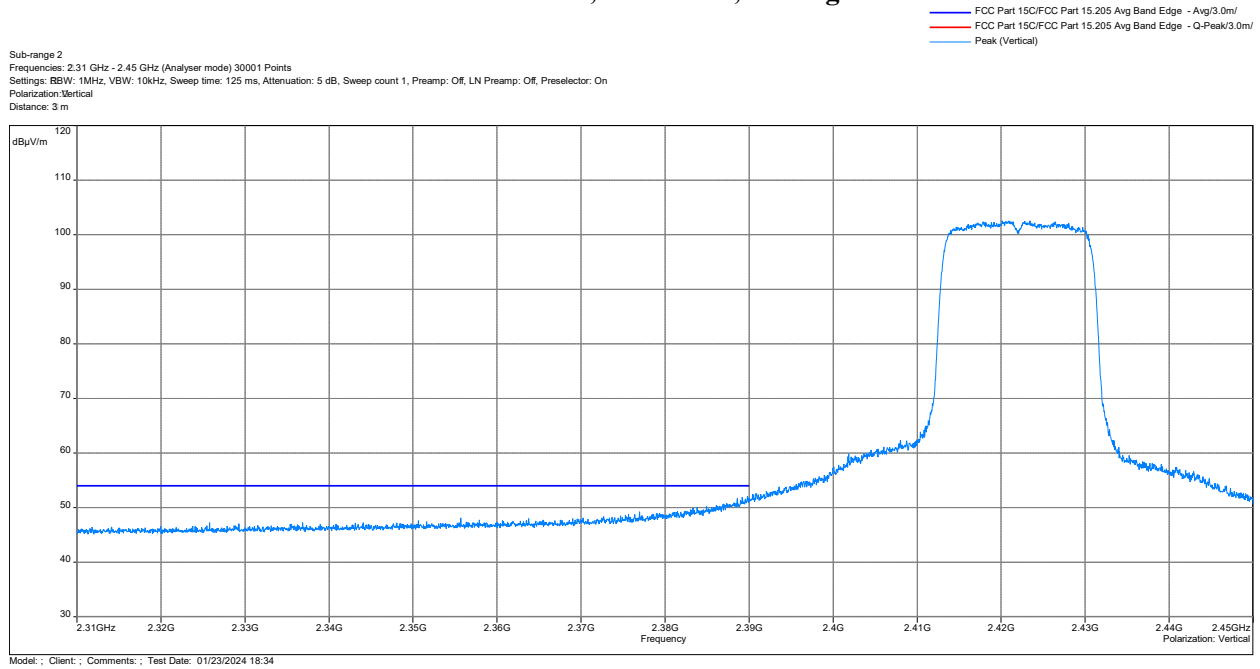


Freq. MHz	Ave@3m dB(µV/m)	Ave Limit dB(µV/m)	Margin dB	Height m	Azimuth deg	Polarity	Correction dB
2389.646	52.42	54	-1.58	1.51	99	Vertical	27.32
2390.0	52.46	54	-1.54	1.51	91.75	Vertical	27.32

Out-of-Band Spurious Emissions at the Band Edge @1m distance 802.11n HT20, 2422 MHz, Peak

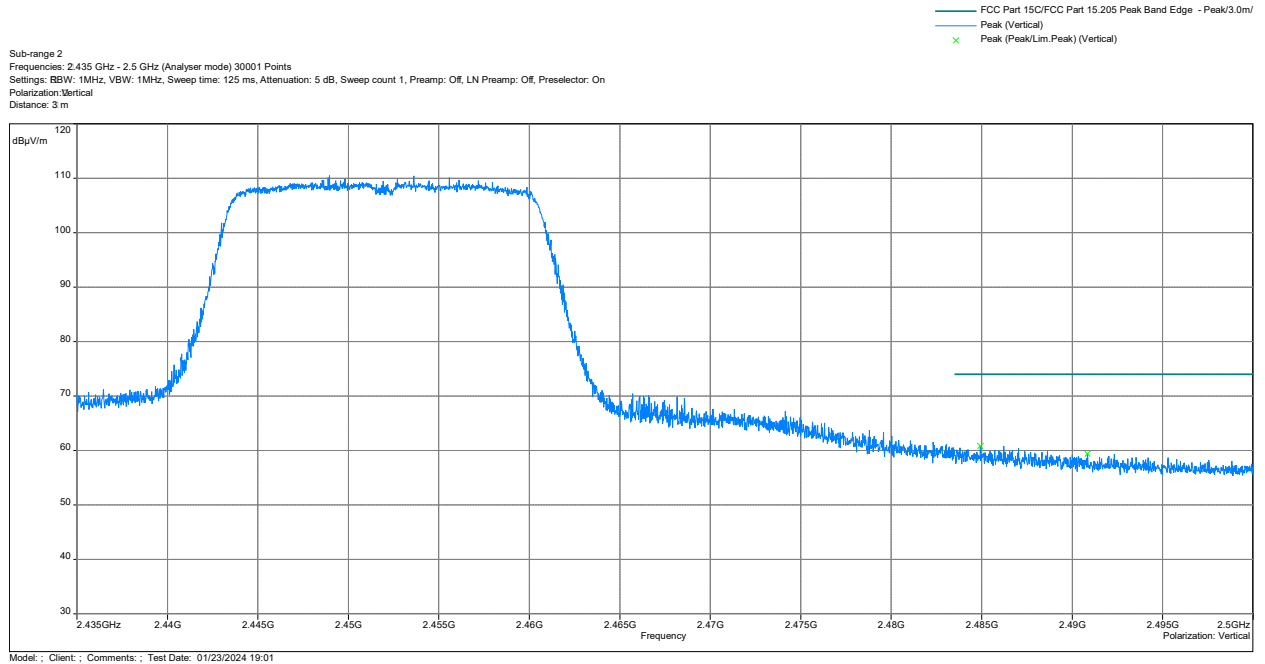


802.11n HT20, 2422 MHz, Average

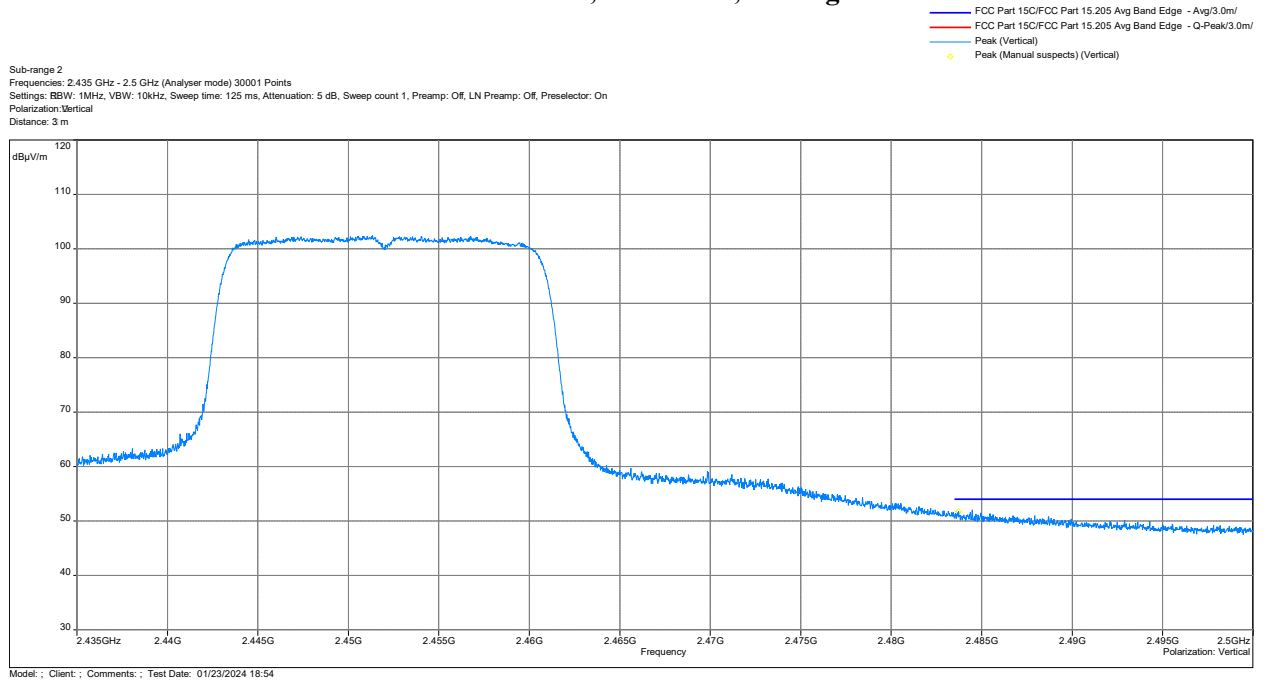


Freq. MHz	Ave@3m dB(µV/m)	Ave Limit dB(µV/m)	Margin dB	Height m	Azimuth deg	Polarity	Correction dB
2390	52.04	54	-1.96	1.51	92.75	Vertical	27.32

Out-of-Band Spurious Emissions at the Band Edge @1m distance 802.11n HT20, 2452 MHz, Peak



802.11n HT20, 2452 MHz, Average

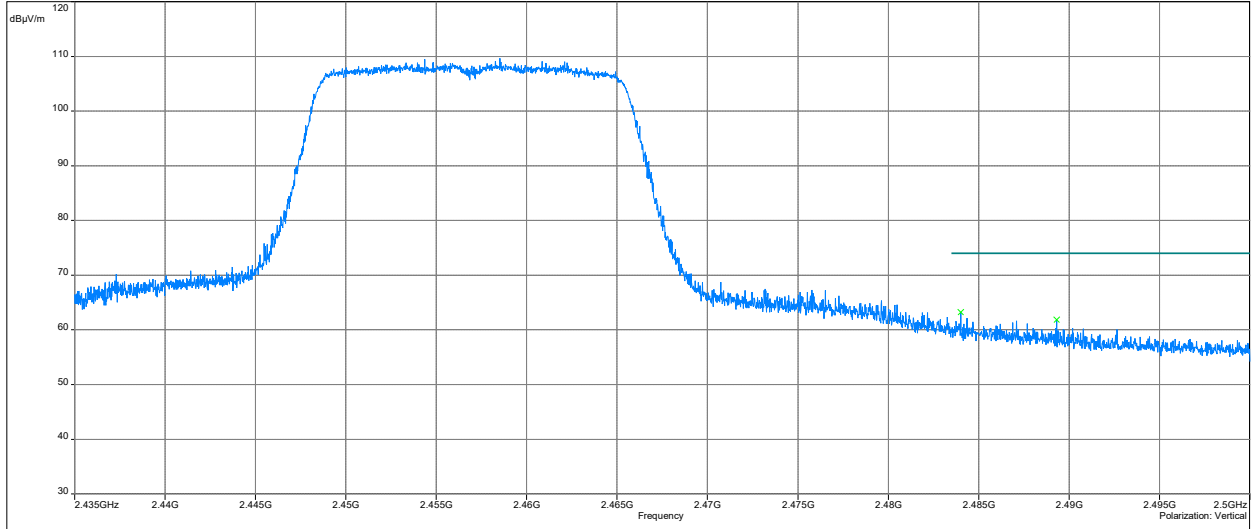


Freq. MHz	Ave@3m dB(µV/m)	Ave Limit dB(µV/m)	Margin dB	Height m	Azimuth deg	Polarity	Correction dB
2483.728	51.73	54	-2.27	1.51	97.5	Vertical	27.35

Out-of-Band Spurious Emissions at the Band Edge @1m distance 802.11n HT20, 2457 MHz, Peak

Sub-range 2
Frequencies: 2.435 GHz - 2.5 GHz (Analyser mode) 30001 Points
Settings: BBW: 1MHz, VBW: 1MHz, Sweep time: 125 ms, Attenuation: 5 dB, Sweep count 1, Preamp: Off, LN Preamp: Off, Preselector: On
Polarization: Vertical
Distance: 3 m

— FCC Part 15C/FCC Part 15.205 Peak Band Edge - Peak/3.0m/
— Peak (Vertical)
x Peak (PeakLim.Peak) (Vertical)

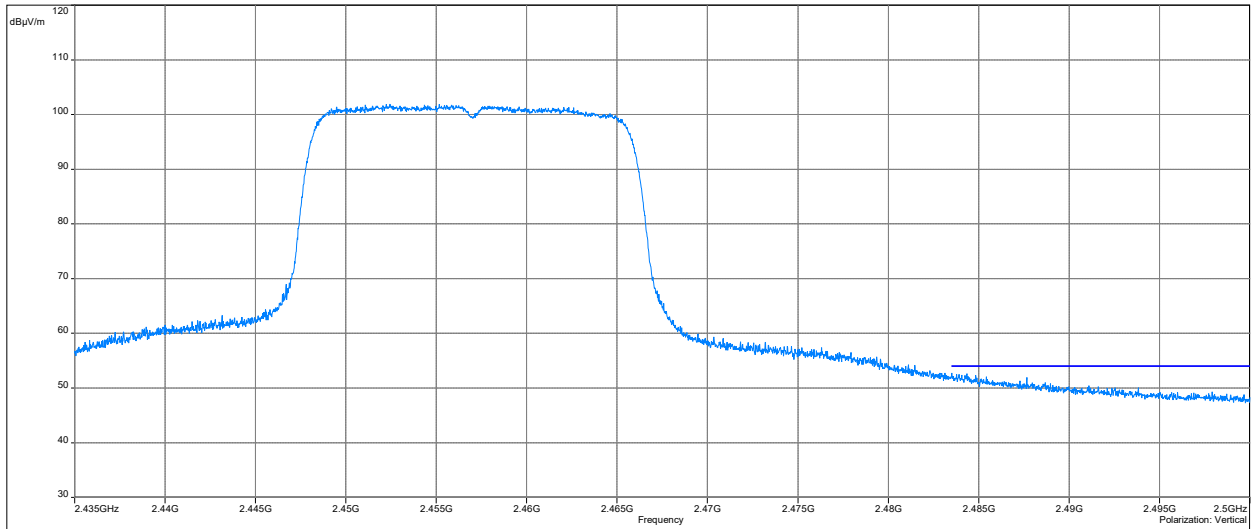


Model: ; Client: ; Comments: ; Test Date: 01/23/2024 16:39

802.11n HT20, 2457 MHz, Average

Sub-range 2
Frequencies: 2.435 GHz - 2.5 GHz (Analyser mode) 30001 Points
Settings: BBW: 1MHz, VBW: 10kHz, Sweep time: 125 ms, Attenuation: 5 dB, Sweep count 1, Preamp: Off, LN Preamp: Off, Preselector: On
Polarization: Vertical
Distance: 3 m

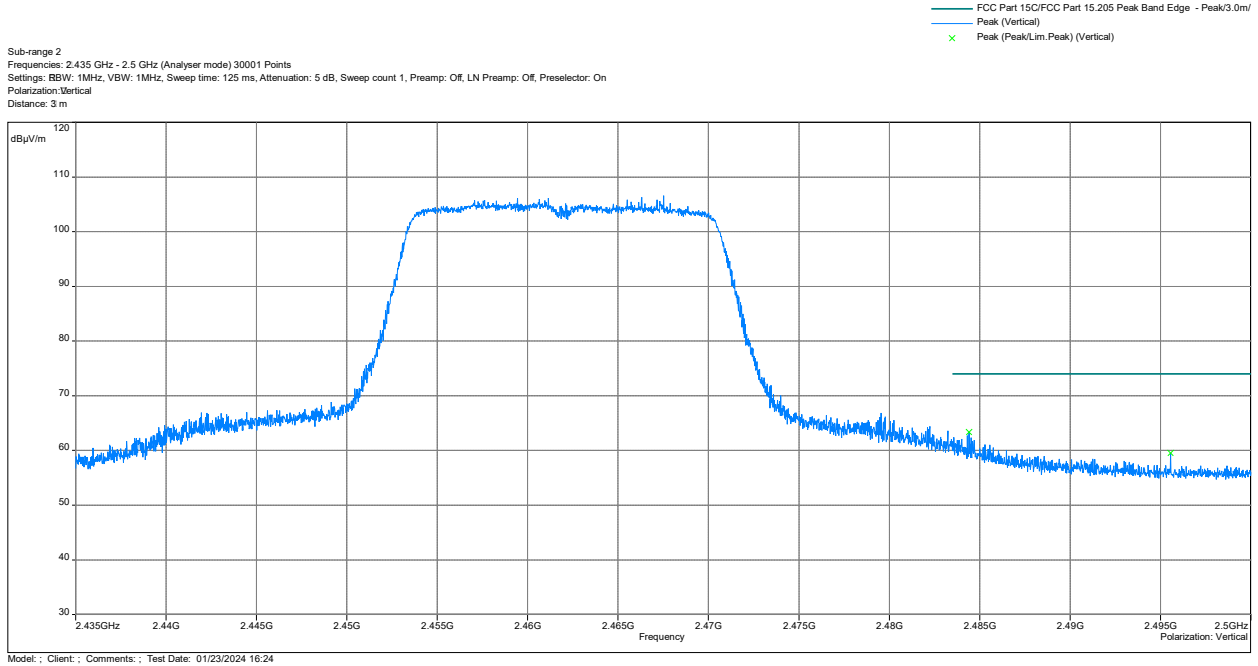
— FCC Part 15C/FCC Part 15.205 Avg Band Edge - Avg/3.0m/
— FCC Part 15C/FCC Part 15.205 Avg Band Edge - Q-Peak/3.0m/
— Peak (Vertical)



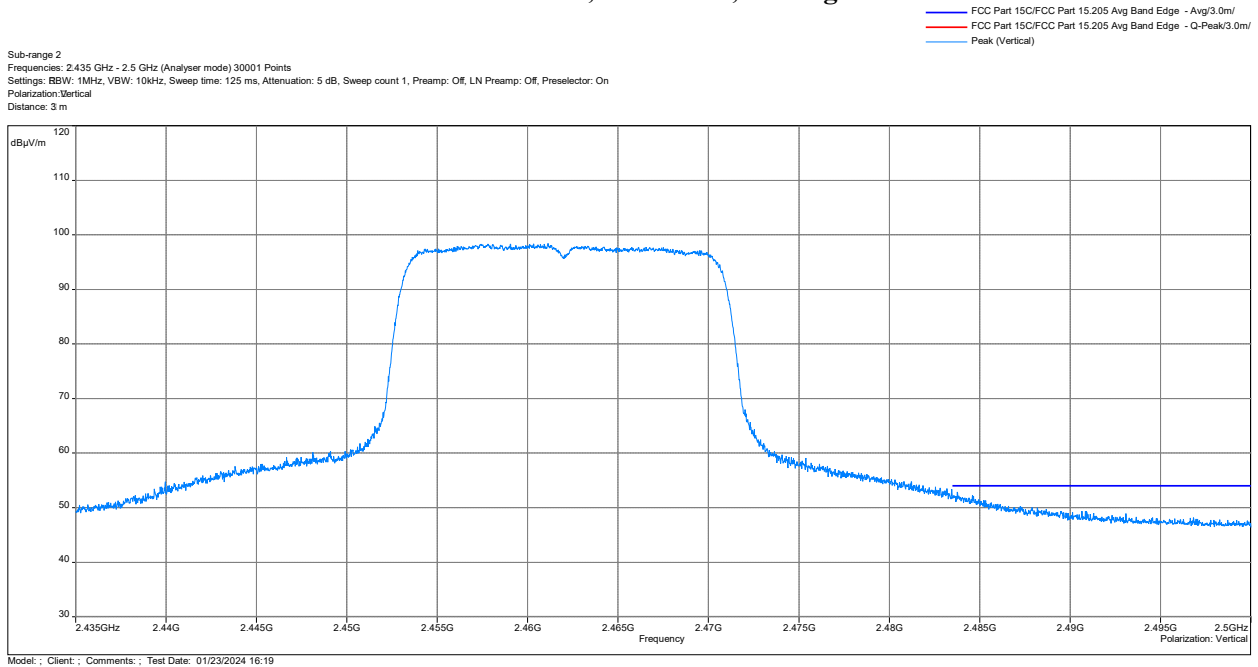
Model: ; Client: ; Comments: ; Test Date: 01/23/2024 16:34

Freq. MHz	Ave@3m dB(uV/m)	Ave Limit dB(µV/m)	Margin dB	Height m	Azimuth deg	Polarity	Correction dB
2483.5	52.74	54	-1.26	1.5	98.5	Vertical	27.35
2483.908	52.49	54	-1.51	1.5	98.5	Vertical	27.35
2484.346	52.63	54	-1.37	1.5	98.5	Vertical	27.35

Out-of-Band Spurious Emissions at the Band Edge @1m distance 802.11n HT20, 2462 MHz, Peak

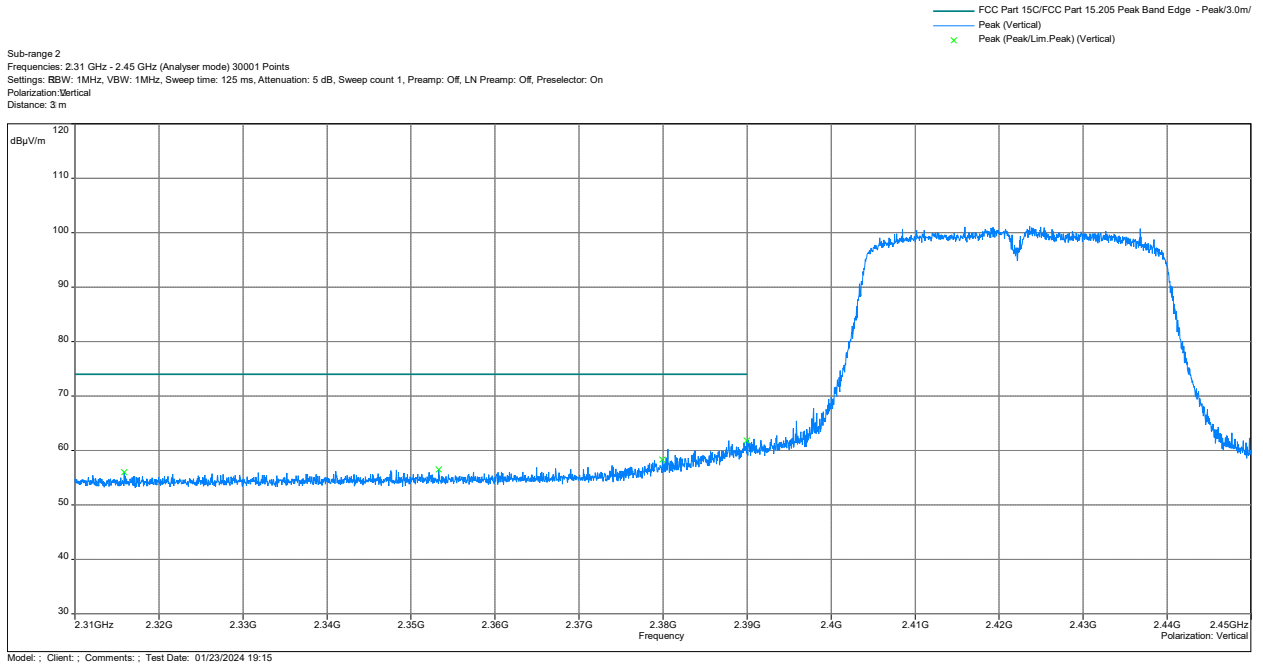


802.11n HT20, 2462 MHz, Average

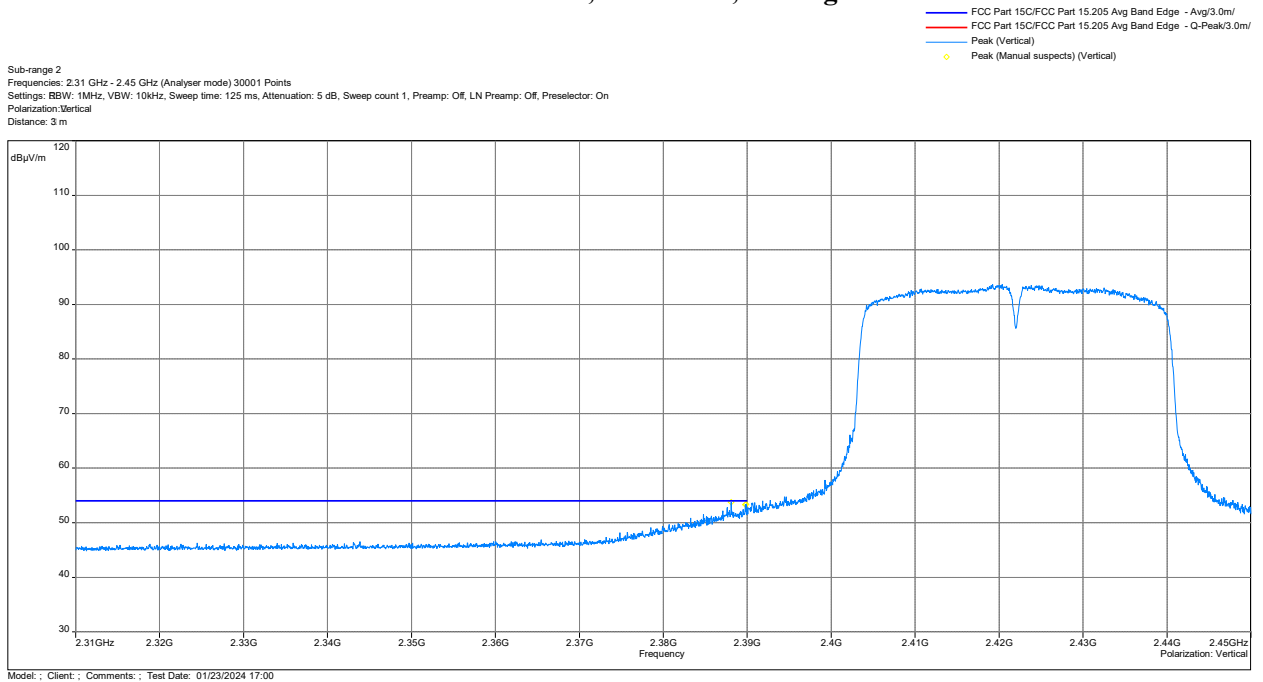


Freq. MHz	Ave@3m dB(uV/m)	Ave Limit dB(µV/m)	Margin dB	Height m	Azimuth deg	Polarity	Correction dB
2483.5	52.88	54	-1.12	1.51	100	Vertical	27.35
2484.597	52.31	54	-1.69	1.51	85.75	Vertical	27.35

Out-of-Band Spurious Emissions at the Band Edge @1m distance 802.11n HT40, 2422 MHz, Peak

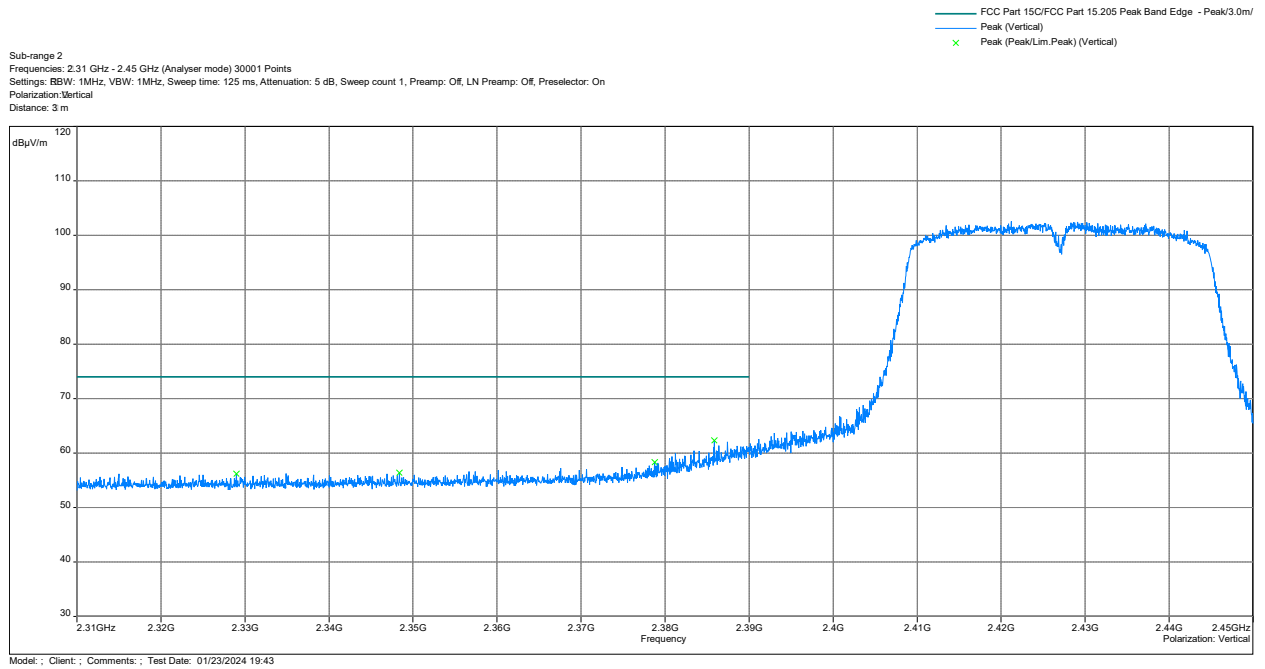


802.11n HT40, 2422 MHz, Average

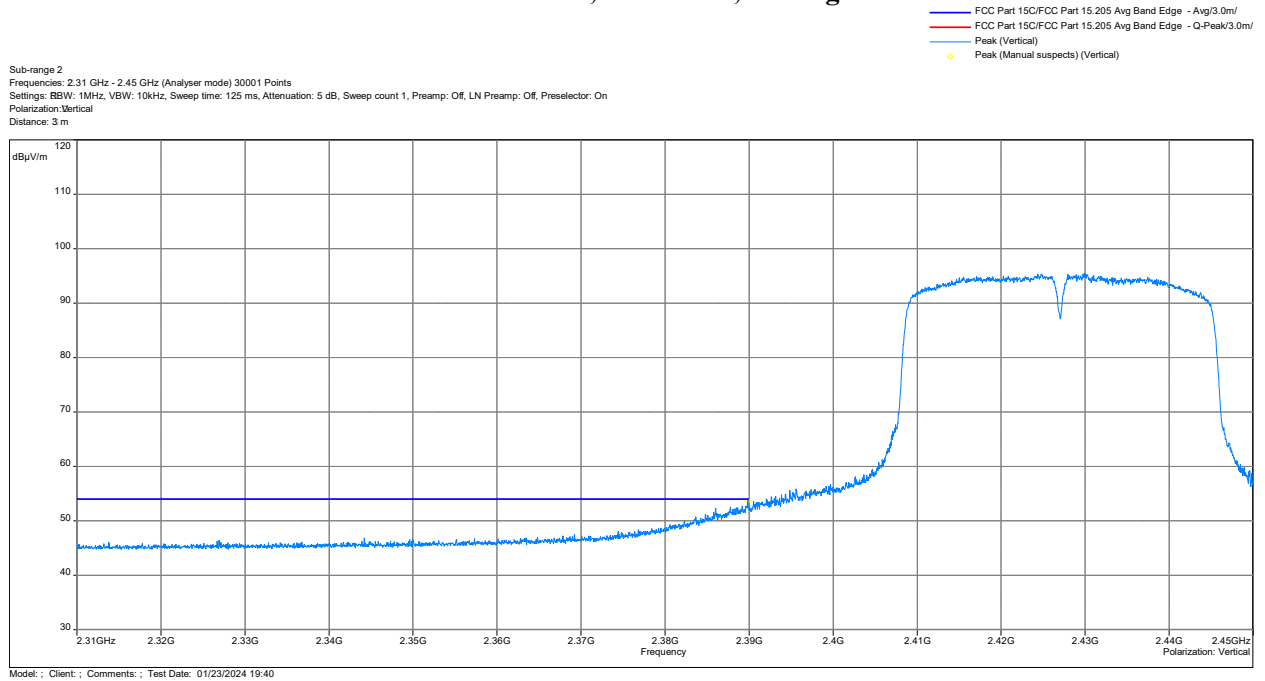


Freq. MHz	Ave@3m dB(µV/m)	Ave Limit dB(µV/m)	Margin dB	Height m	Azimuth deg	Polarity	Correction dB
2388.083	53.78	54	-0.22	1.51	106	Vertical	27.3
2389.781	53.3	54	-0.7	1.51	89.25	Vertical	27.32
2390.0	53.37	54	-0.63	1.51	345.75	Vertical	27.32

Out-of-Band Spurious Emissions at the Band Edge @1m distance 802.11n HT40, 2427 MHz, Peak

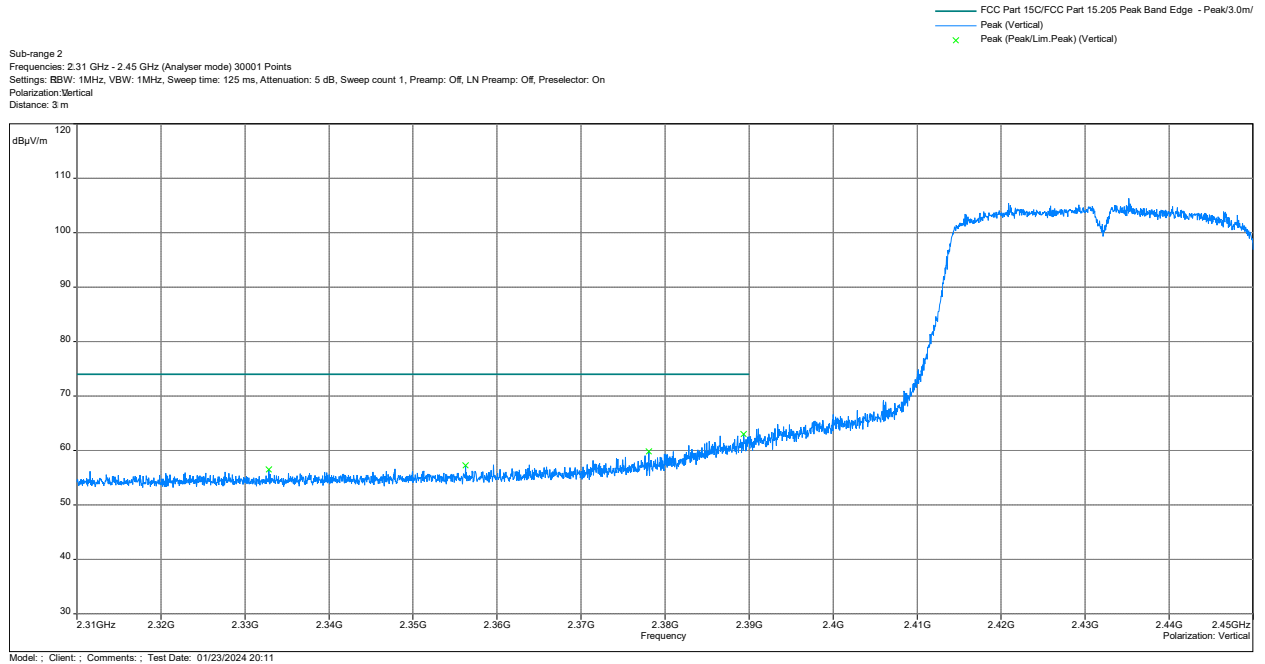


802.11n HT40, 2427 MHz, Average

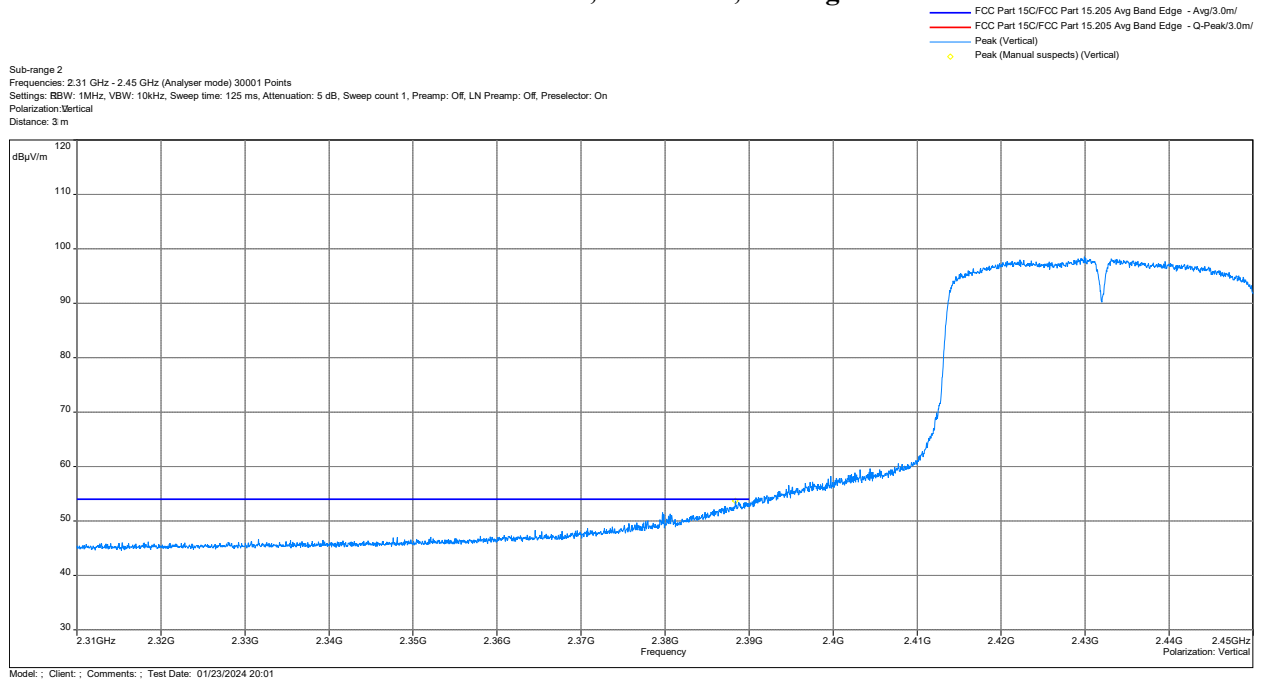


Freq. MHz	Ave@3m dB(µV/m)	Ave Limit dB(µV/m)	Margin dB	Height m	Azimuth deg	Polarity	Correction dB
2389.865	53.77	54	-0.23	1.51	92.75	Vertical	27.32

Out-of-Band Spurious Emissions at the Band Edge @1m distance 802.11n HT40, 2432 MHz, Peak

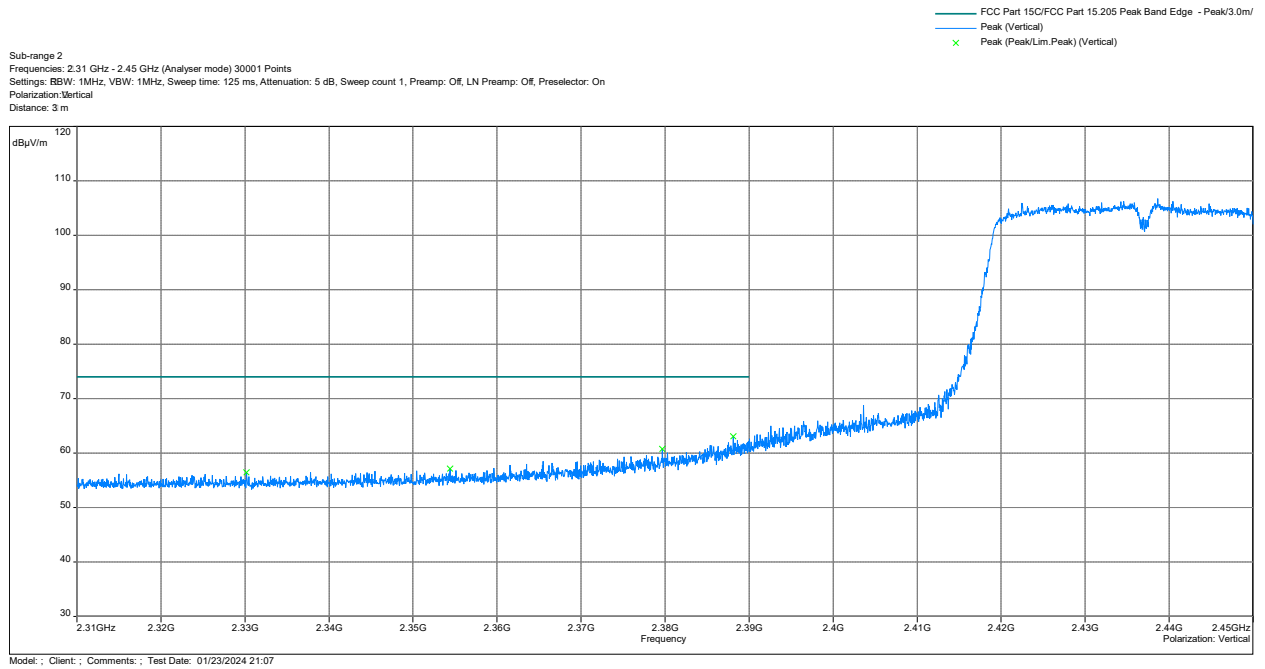


802.11n HT40, 2432 MHz, Average

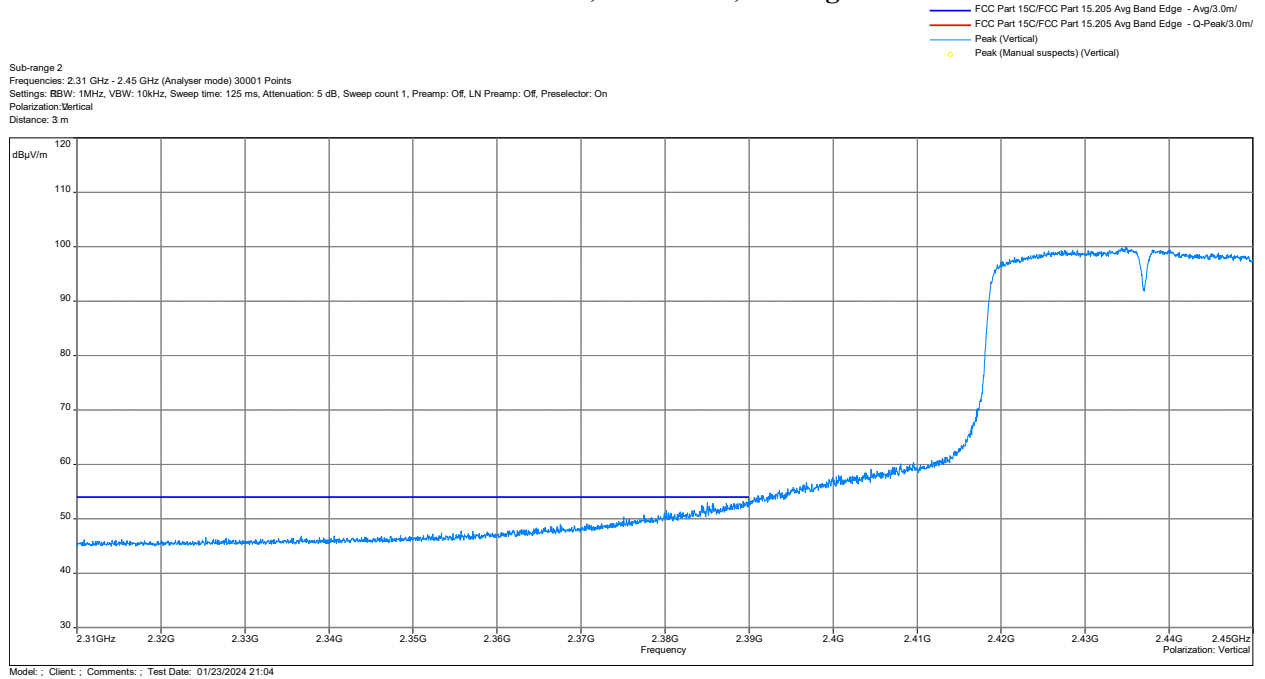


Freq. MHz	Ave@3m dB(µV/m)	Ave Limit dB(µV/m)	Margin dB	Height m	Azimuth deg	Polarity	Correction dB
2388.386	53.69	54	-0.31	1.5	93.5	Vertical	27.31
2388.811	53.08	54	-0.92	1.5	110.5	Vertical	27.31
2390.0	52.53	54	-1.47	1.5	93.5	Vertical	27.32

Out-of-Band Spurious Emissions at the Band Edge @1m distance 802.11n HT40, 2437 MHz, Peak



802.11n HT40, 2437 MHz, Average

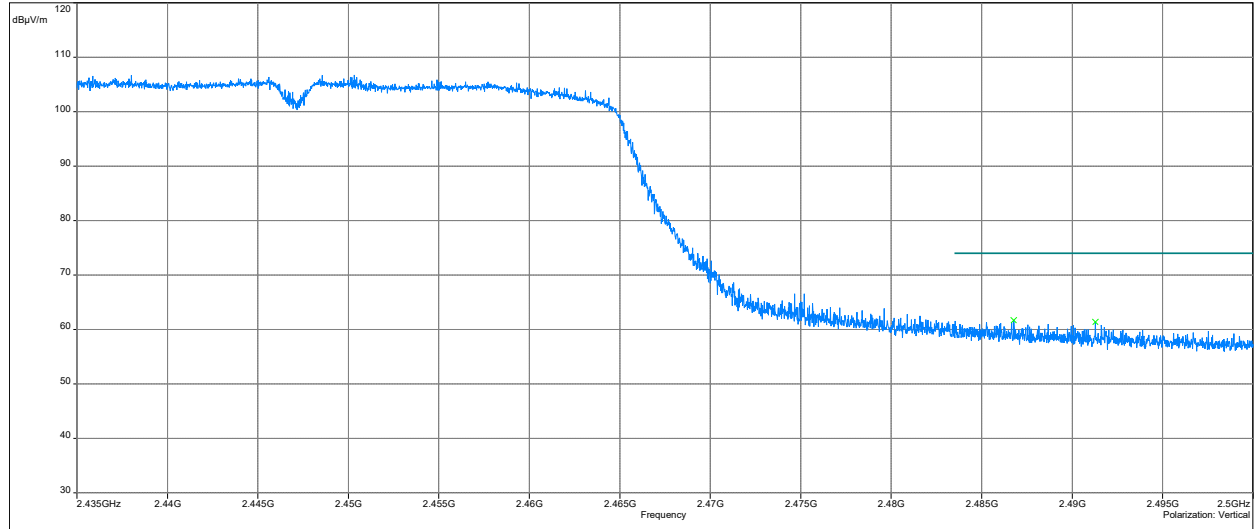


Freq. MHz	Ave@3m dB(µV/m)	Ave Limit dB(µV/m)	Margin dB	Height m	Azimuth deg	Polarity	Correction dB
2390.0	53.73	54	-0.27	1.49	106	Vertical	27.32

Out-of-Band Spurious Emissions at the Band Edge @1m distance 802.11n HT40, 2447 MHz, Peak

Sub-range 2
Frequencies: 2.435 GHz - 2.5 GHz (Analyser mode) 30001 Points
Settings: BBW: 1MHz, VBW: 1MHz, Sweep time: 125 ms, Attenuation: 5 dB, Sweep count 1, Preamp: Off, LN Preamp: Off, Preselector: On
Polarization: Vertical
Distance: 3 m

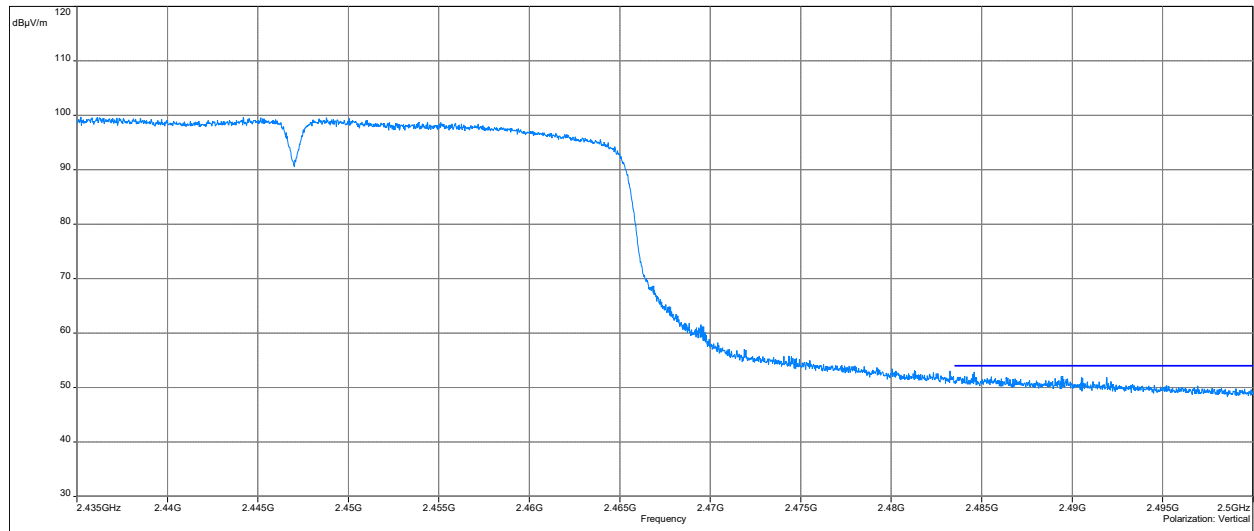
— FCC Part 15C/FCC Part 15.205 Peak Band Edge - Peak/3.0m/
— Peak (Vertical)
x Peak (Peak/Lim.Peak) (Vertical)



802.11n HT40, 2447 MHz, Average

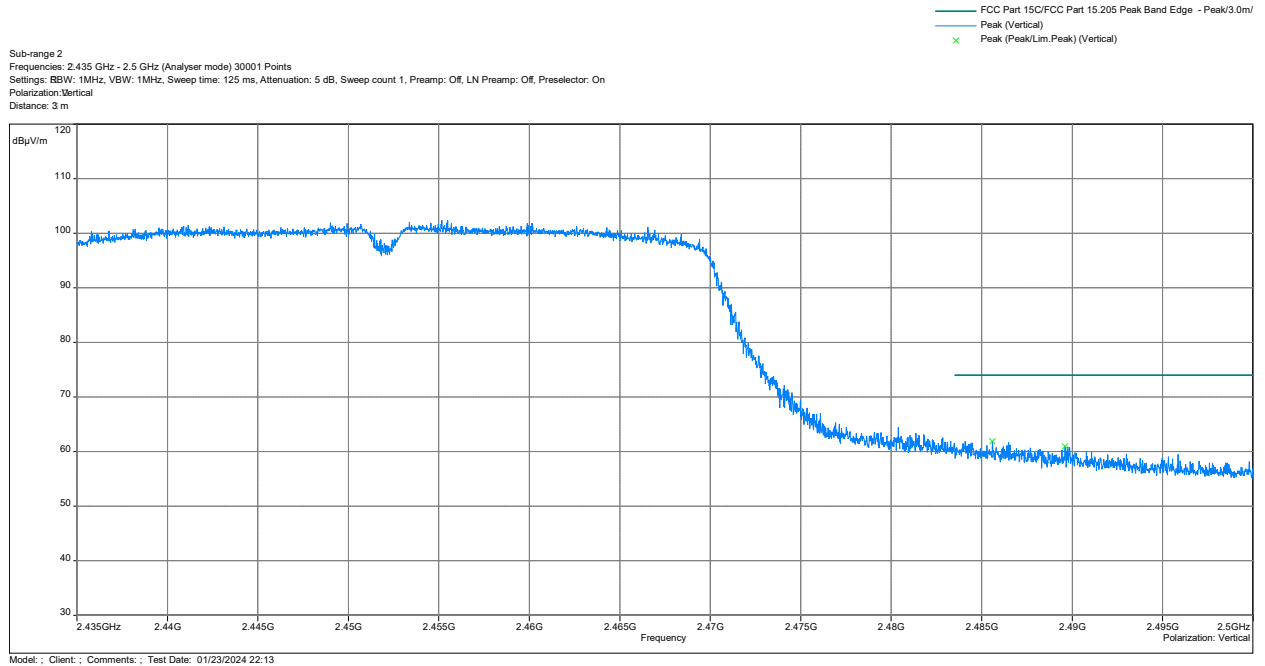
Sub-range 2
Frequencies: 2.435 GHz - 2.5 GHz (Analyser mode) 30001 Points
Settings: BBW: 1MHz, VBW: 10kHz, Sweep time: 125 ms, Attenuation: 5 dB, Sweep count 1, Preamp: Off, LN Preamp: Off, Preselector: On
Polarization: Vertical
Distance: 3 m

— FCC Part 15C/FCC Part 15.205 Avg Band Edge - Avg/3.0m/
— FCC Part 15C/FCC Part 15.205 Avg Band Edge - Q-Peak/3.0m/
— Peak (Vertical)

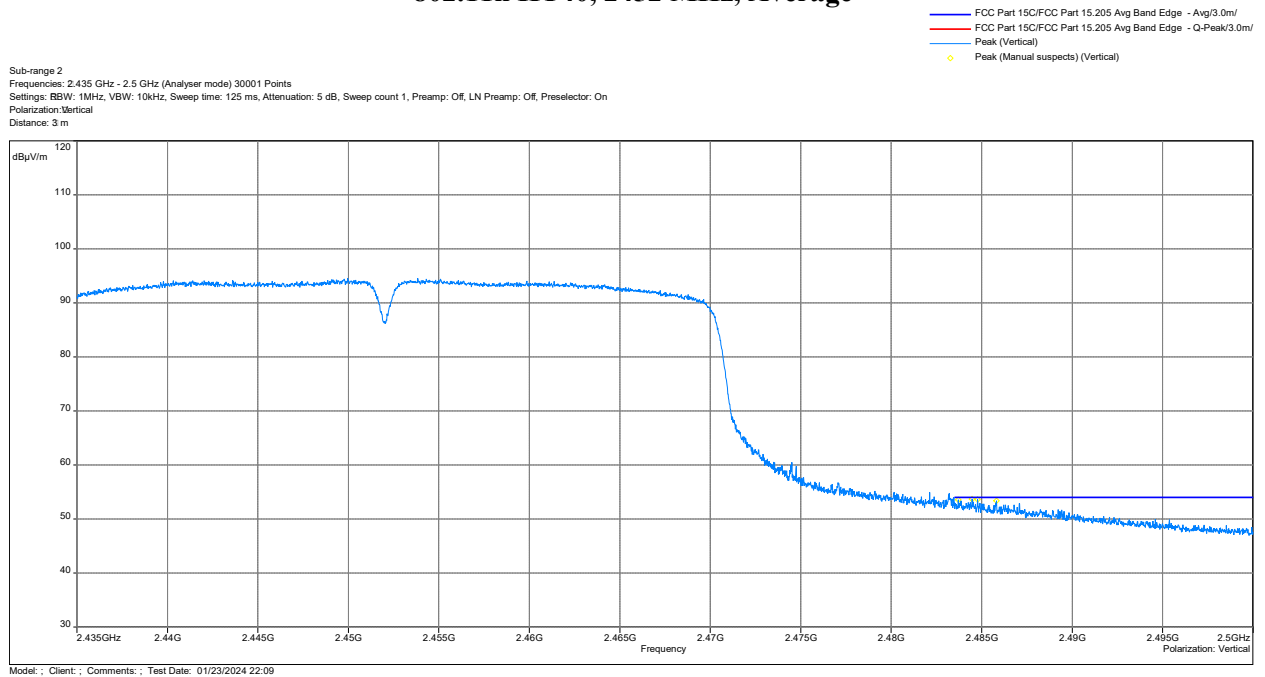


Freq. MHz	Ave@3m dB(µV/m)	Ave Limit dB(µV/m)	Margin dB	Height m	Azimuth deg	Polarity	Correction dB
2483.5	52.85	54	-1.15	1.49	99.75	Vertical	27.35

Out-of-Band Spurious Emissions at the Band Edge @1m distance 802.11n HT40, 2452 MHz, Peak



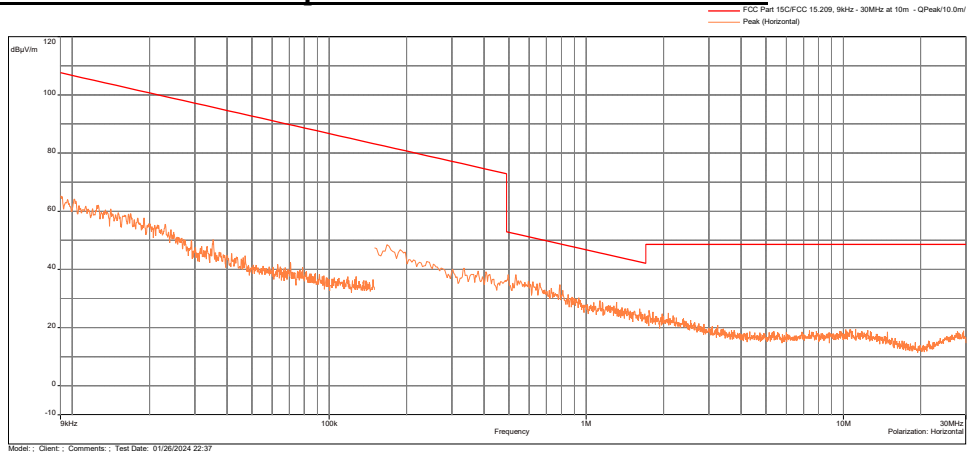
802.11n HT40, 2452 MHz, Average



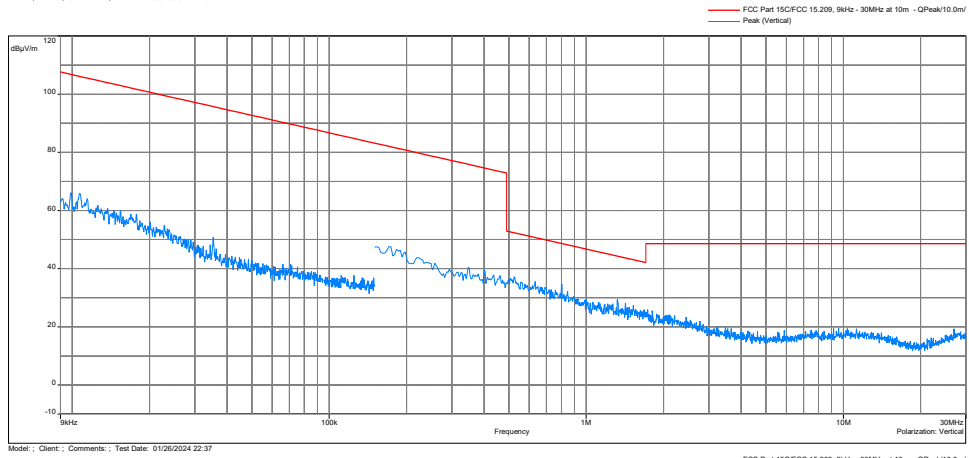
Freq. MHz	Ave@3m dB(uV/m)	Ave Limit dB(uV/m)	Margin dB	Height m	Azimuth deg	Polarity	Correction dB
2483.5	53.54	54	-0.46	1.51	85.5	Vertical	27.35
2484.474	53.72	54	-0.28	1.51	100.75	Vertical	27.35
2484.766	53.66	54	-0.34	1.51	89.75	Vertical	27.35
2485.819	53.37	54	-0.63	1.51	100.75	Vertical	27.35

Out-of-Band Radiated Spurious Emissions – 9 kHz to 30MHz

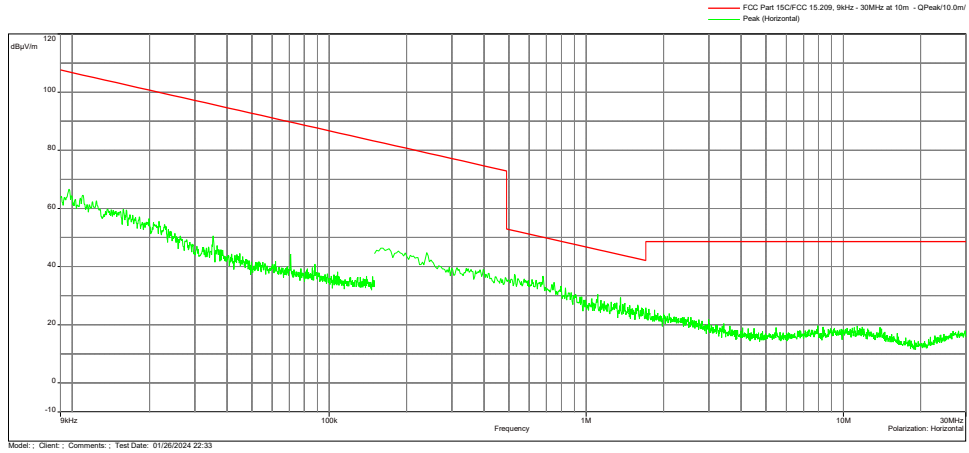
Antenna Position -
Coaxial



Antenna Position -
Coplanar

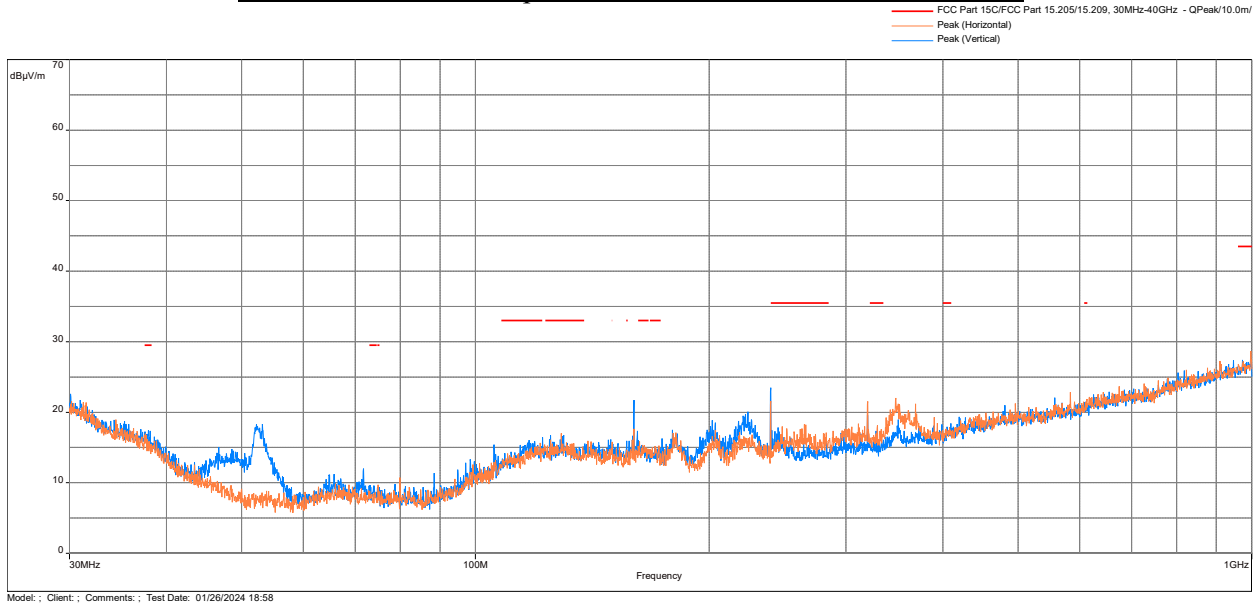


Antenna Position -
Horizontal

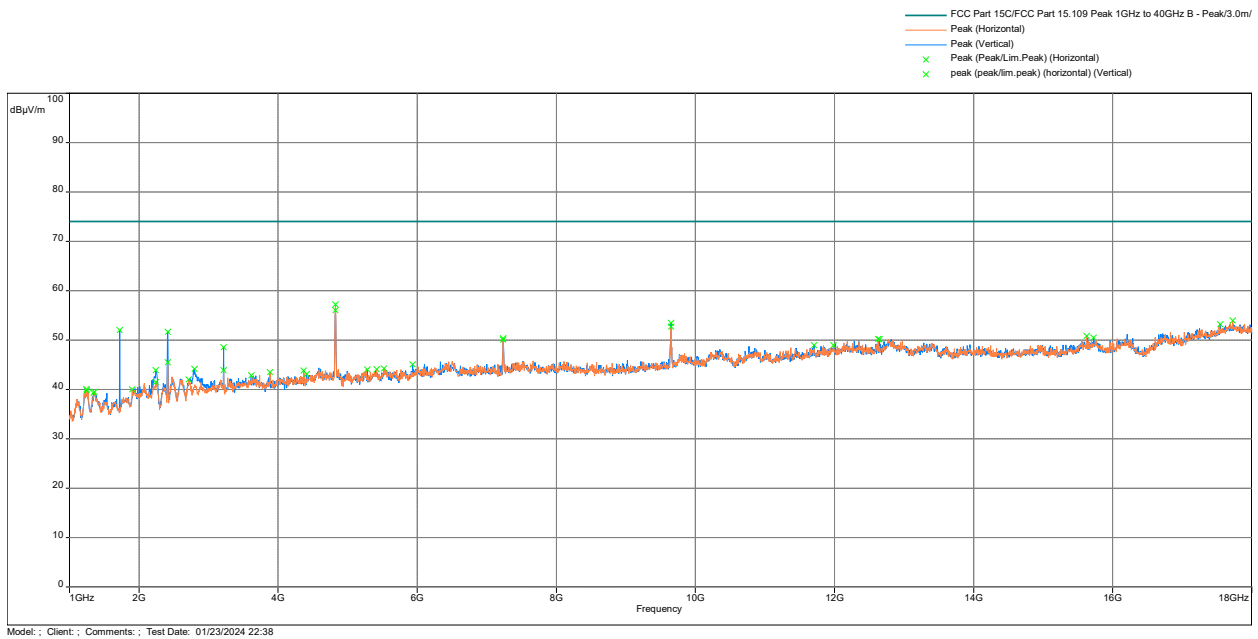


Test Results: 15.209 Radiated Spurious Emissions Low Channel, Tx at 802.11b 2412MHz

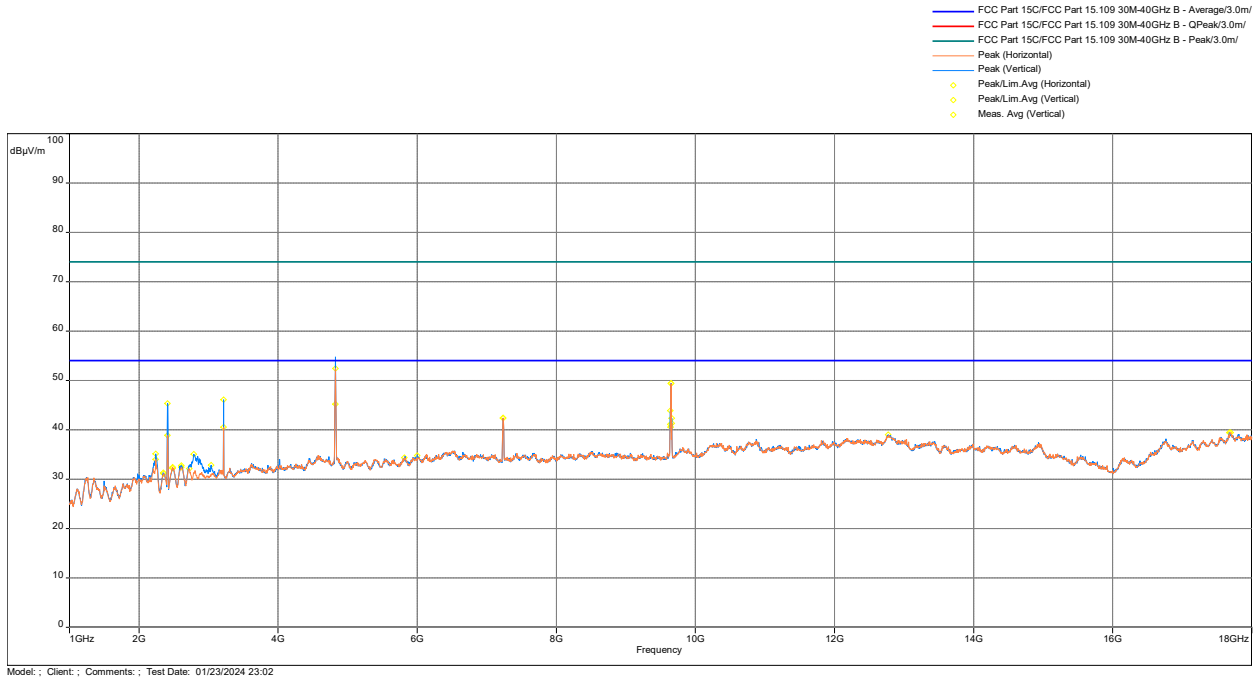
Out-of-Band Radiated Spurious Emissions - 30 MHz to 1000 MHz



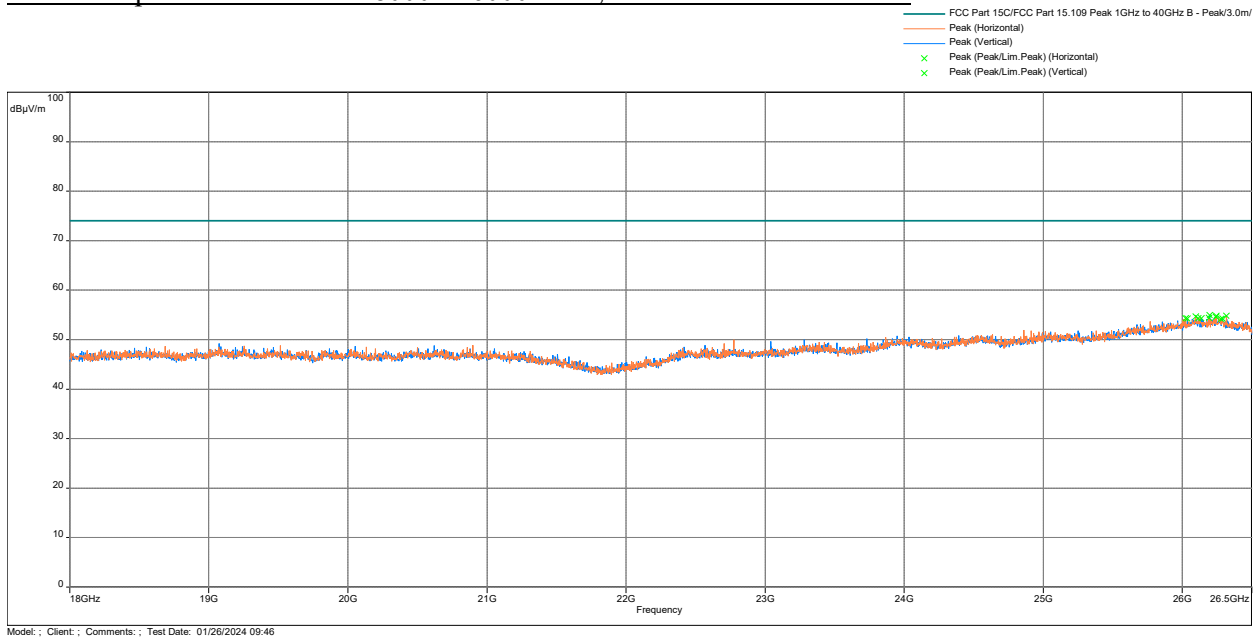
Radiated Spurious Emissions 1000 - 18000 MHz, Peak Scan vs Peak Limit



Radiated Spurious Emissions 1000 - 18000 MHz, Average Scan vs Average Limit



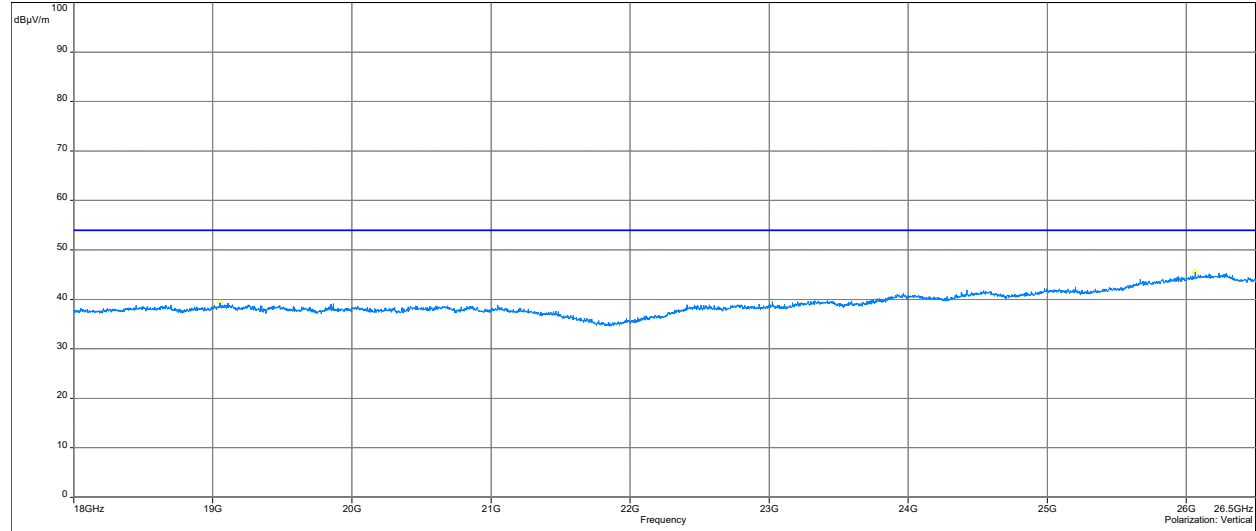
Radiated Spurious Emissions 18000 - 26000 MHz, Peak Scan vs Peak Limit.



Radiated Spurious Emissions 18000 - 26000 MHz, Average Scan vs Average Limit.

FCC Part 15C/FCC Part 15.109 30M-40GHz B - Average/3.0m/
 FCC Part 15C/FCC Part 15.109 30M-40GHz B - QPeak/3.0m/
 Peak (Vertical)
 Peak (Peak/Lim.Avg) (Vertical)

Sub-range 2
 Frequencies: 18 GHz - 26.5 GHz (Analyser mode) 30001 Points
 Settings: RBW: 1MHz, VBW: 10kHz, Sweep time: 500 ms, Attenuation: 10 dB, Sweep count 3, Preamp: Off, LN Preamp: Off, Preselctor: On
 Polarization: Vertical
 Distance: 3 m



Model: ; Client: ; Comments: ; Test Date: 01/26/2024 09:55

Note: Correction = AF + CF - Preamp

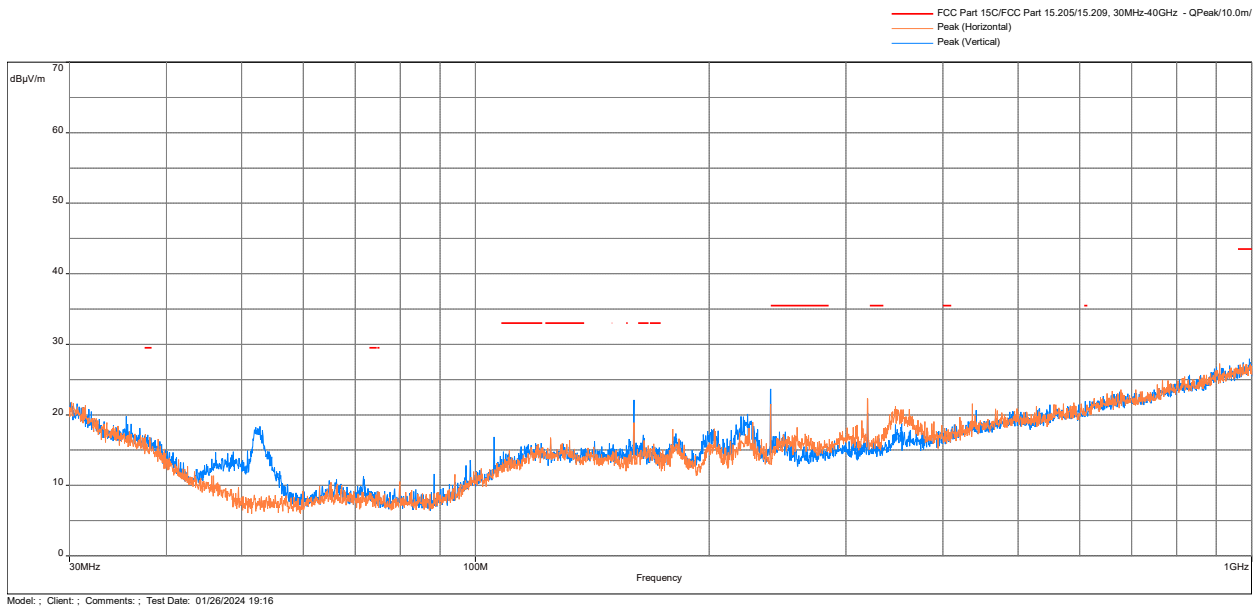
Frequency (MHz)	Avg FS@3m (dBµV/m)	Avg Limit@3m (dB(uV/m))	Margin (dB)	Height (m)	Azimuth (deg)	Polarity	Correction (dB)
4823.867	45.25	54	-8.75	3.51	182.5	Horizontal	-5.18
9647.9	49.42	54	-4.58	1.51	167.5	Vertical	-0.59
9647.9	49.39	54	-4.61	1.51	19.25	Horizontal	-0.59
3215.667	46.09	54	-7.91	2.49	255	Vertical	-8.85
2411.567	45.34	54	-8.66	1.51	358.5	Vertical	-10.81
9637.133	43.92	54	-10.08	1.51	167.5	Vertical	-0.65
7233.333	42.45	54	-11.55	1.51	167.5	Horizontal	-2.7

Note: Correction = AF + CF - Preamp

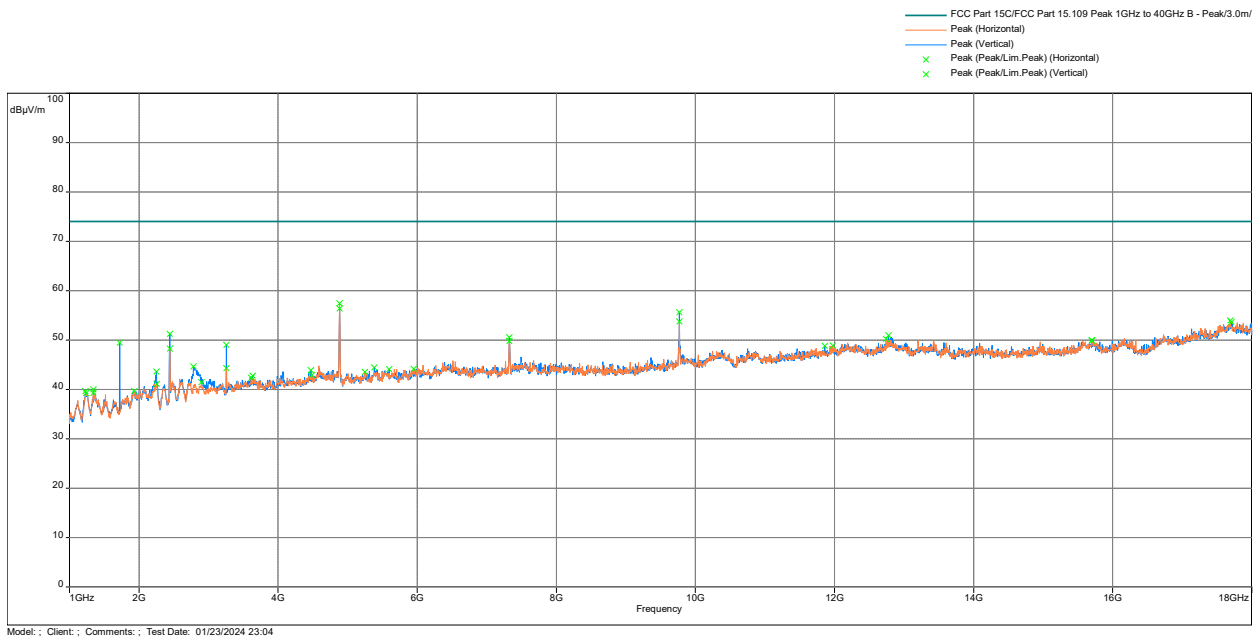
Results **Complies**

Test Results: 15.209 Radiated Spurious Emissions Mid Channel, Tx at 802.11b 2437MHz

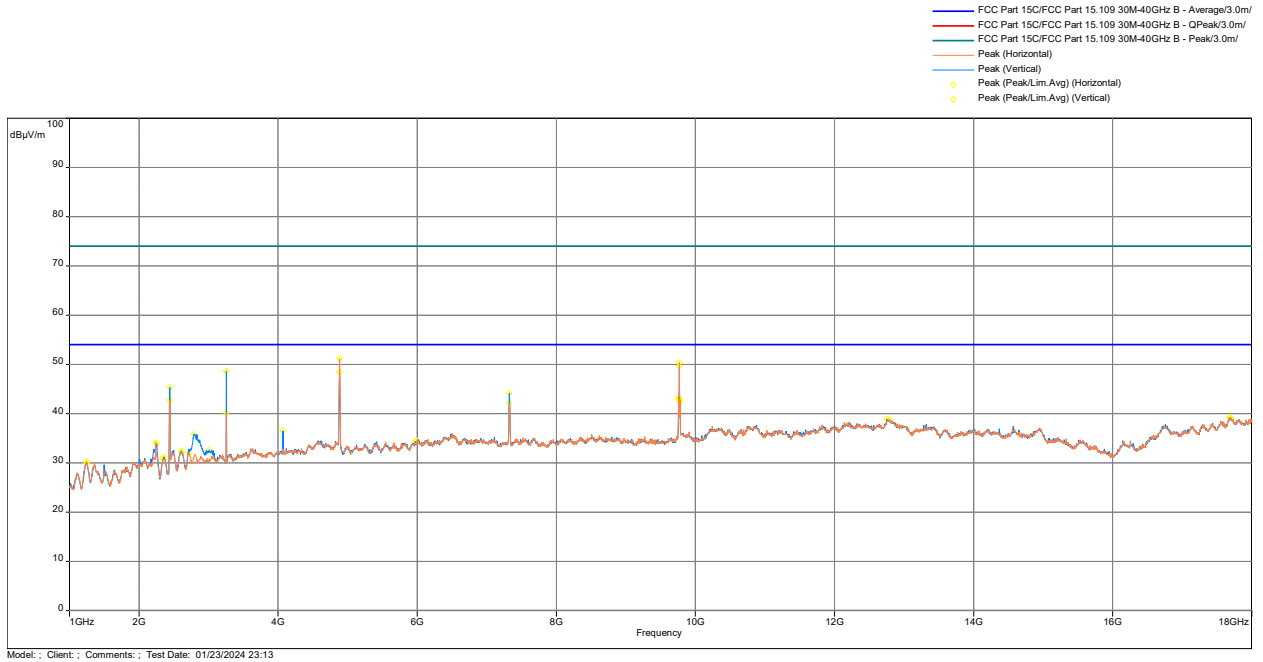
Out-of-Band Radiated Spurious Emissions - 30 MHz to 1000 MHz



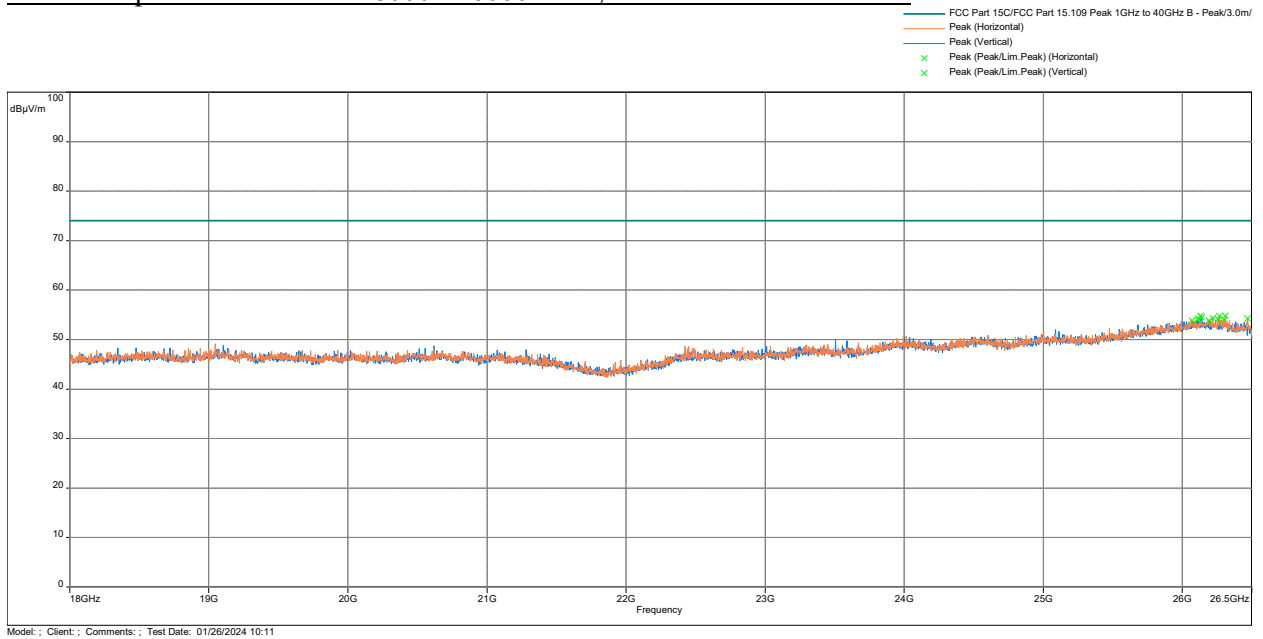
Radiated Spurious Emissions 1000 - 18000 MHz, Peak Scan vs Peak Limit



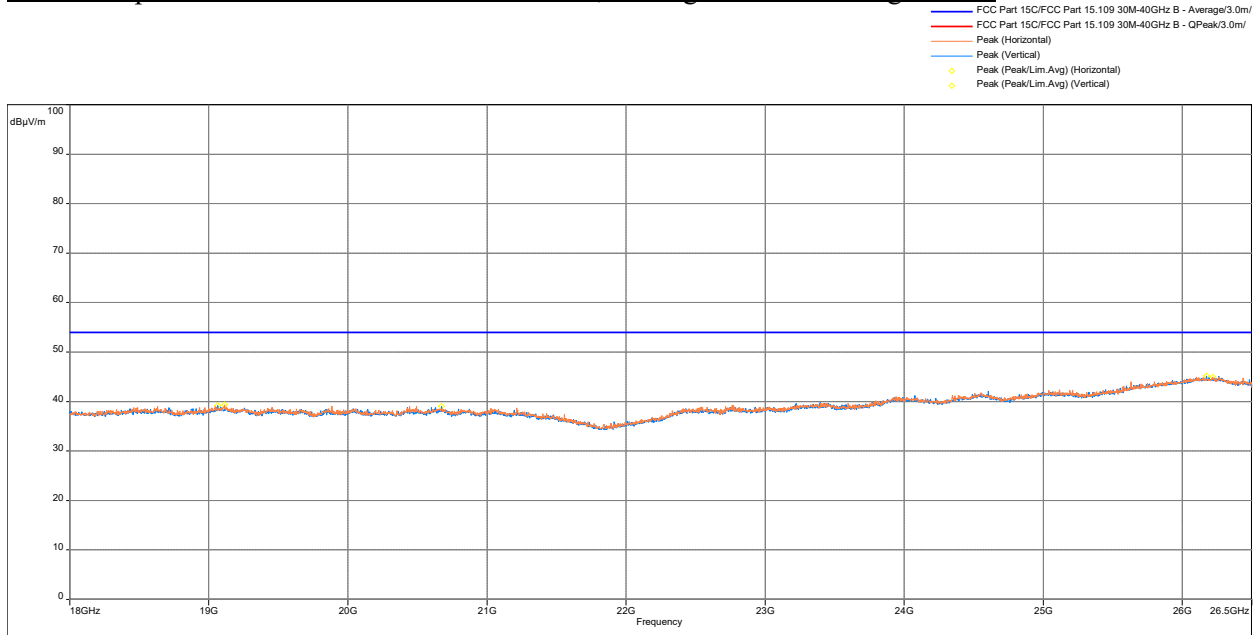
Radiated Spurious Emissions 1000 - 18000 MHz, Average Scan vs Average Limit



Radiated Spurious Emissions 18000 - 26000 MHz, Peak Scan vs Peak Limit.



Radiated Spurious Emissions 18000 - 26000 MHz, Average Scan vs Average Limit.



Model: ; Client: ; Comments: ; Test Date: 01/26/2024 10:16

Note: Correction = AF + CF - Preamp

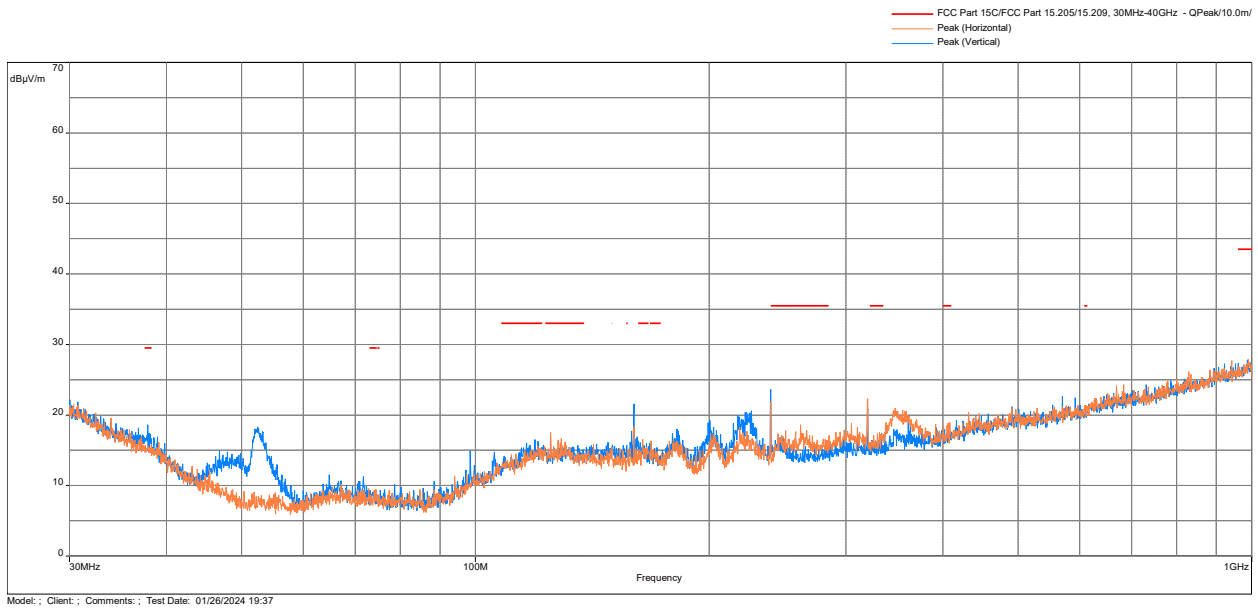
Frequency (MHz)	Avg FS@3m (dBµV/m)	Avg Limit@3m (dB(uV/m))	Margin (dB)	Height (m)	Azimuth (deg)	Polarity	Correction (dB)
4874.3	51.19	54	-2.81	1.51	19.25	Horizontal	-5.25
9748.033	50.42	54	-3.58	1.51	19.25	Horizontal	0.1
9748.033	49.67	54	-4.33	2.51	147.75	Vertical	0.1
3255.9	48.68	54	-5.32	1.51	125.25	Vertical	-8.76
4873.9	48.51	54	-5.49	3.49	188.75	Vertical	-5.25

Note: Correction = AF + CF - Preamp

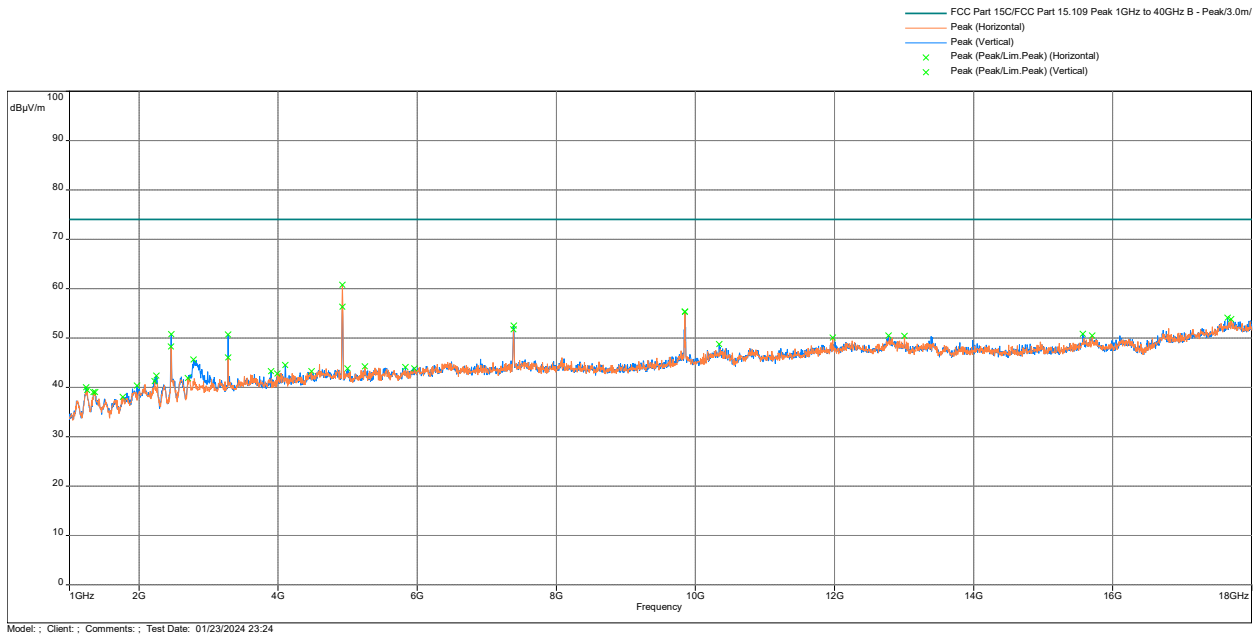
Results	Complies
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Test Results: 15.209 Radiated Spurious Emissions High Channel, Tx at 802.11b 2462MHz

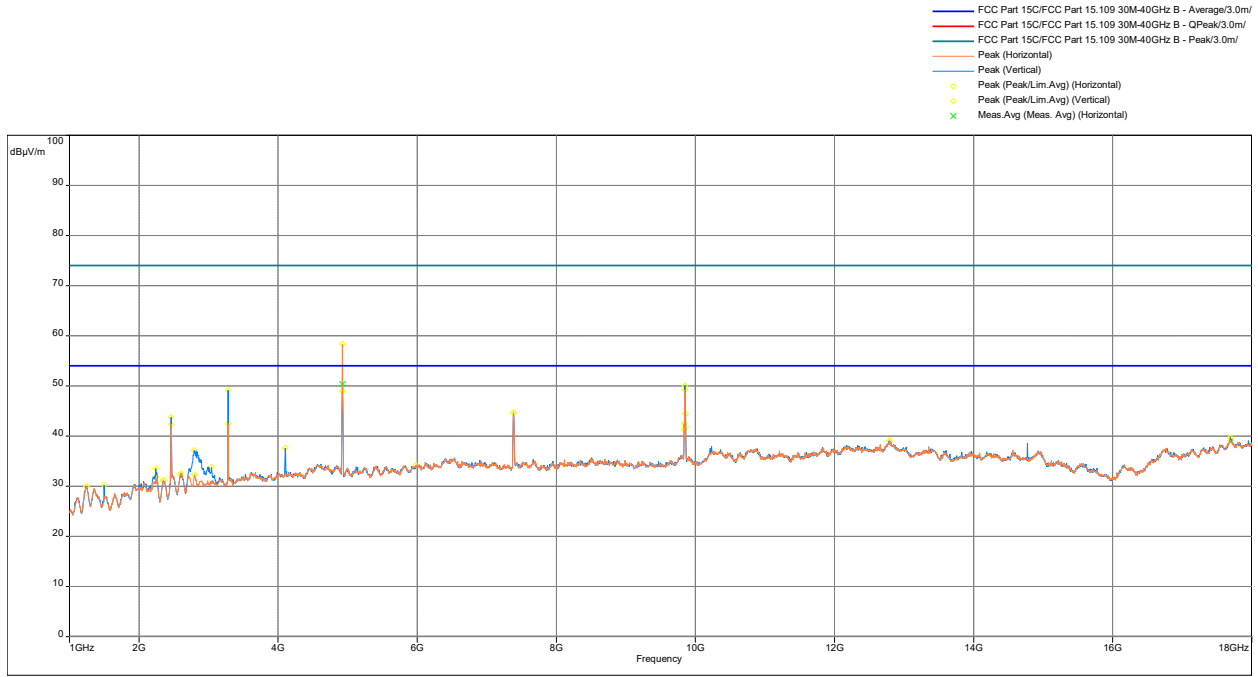
Out-of-Band Radiated Spurious Emissions - 30 MHz to 1000 MHz



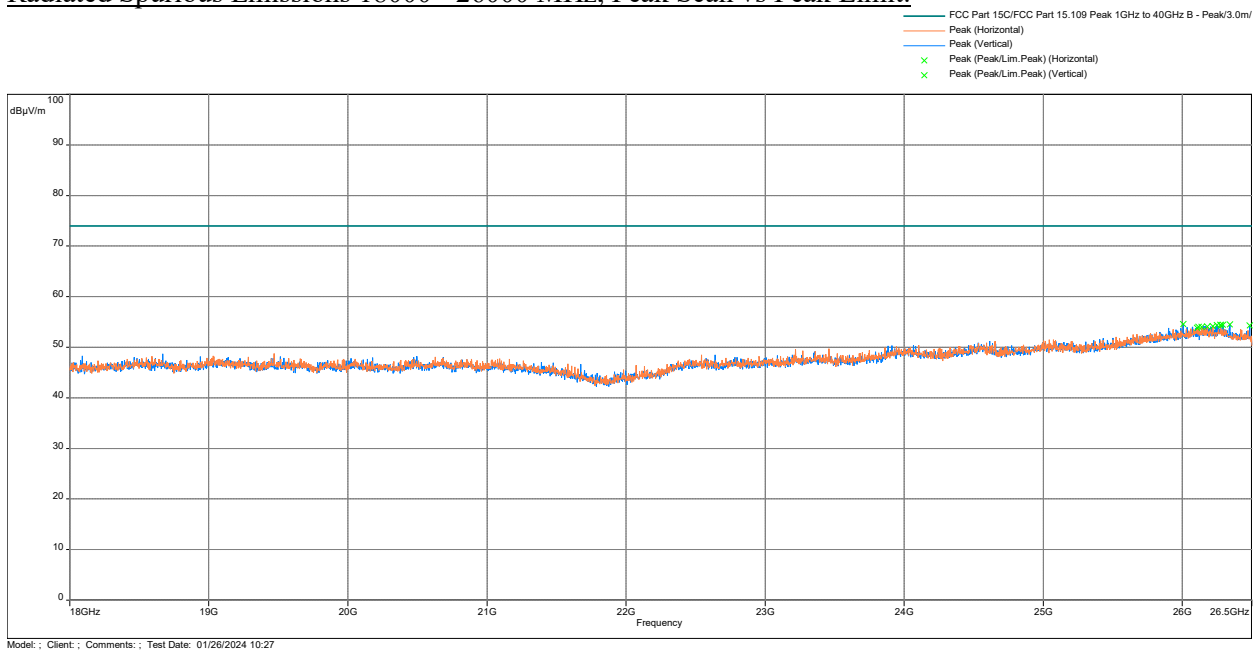
Radiated Spurious Emissions 1000 - 18000 MHz, Peak Scan vs Peak Limit



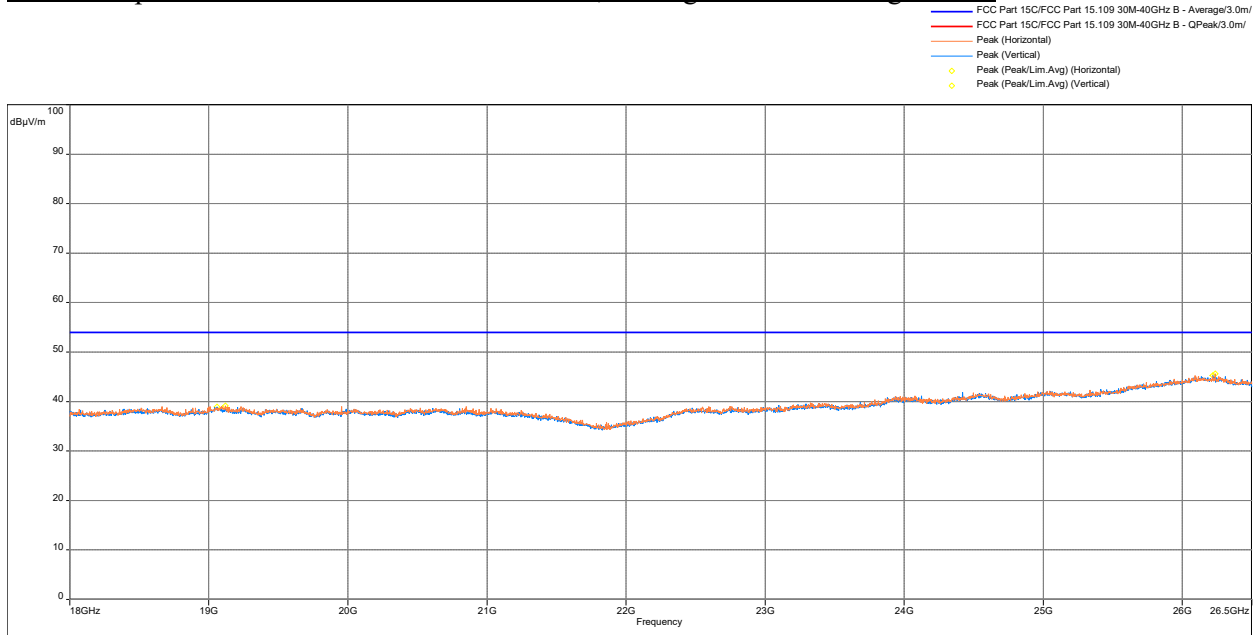
Radiated Spurious Emissions 1000 - 18000 MHz, Average Scan vs Average Limit



Radiated Spurious Emissions 18000 - 26000 MHz, Peak Scan vs Peak Limit.



Radiated Spurious Emissions 18000 - 26000 MHz, Average Scan vs Average Limit.



Model: ; Client: ; Comments: ; Test Date: 01/26/2024 10:30

Note: Correction = AF + CF - Preamp

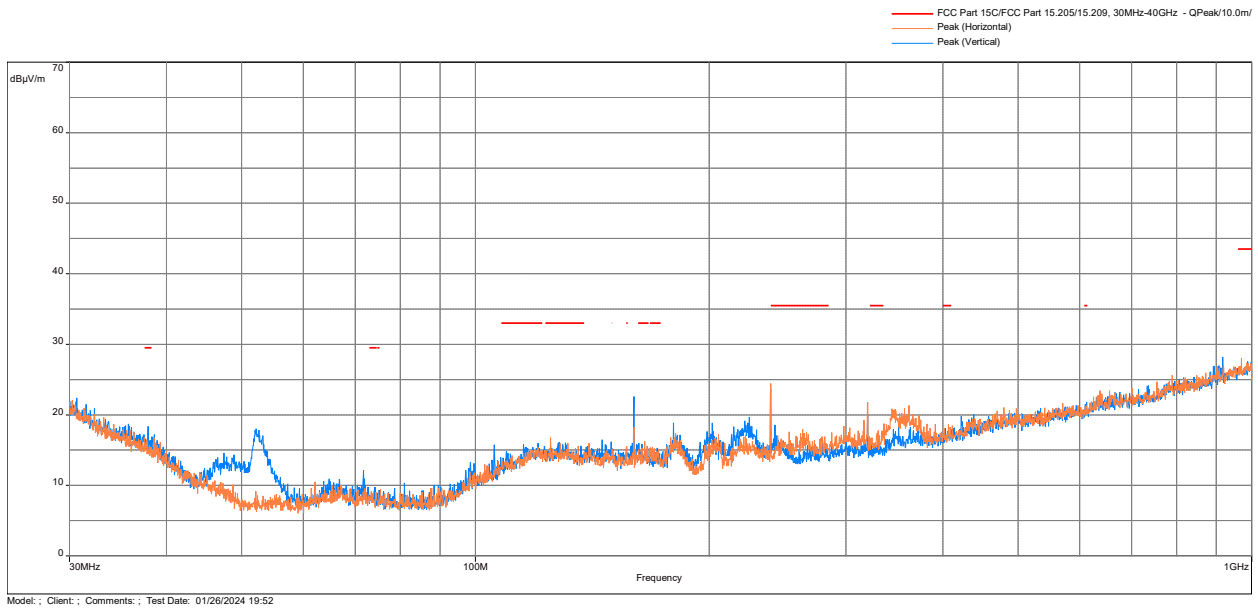
Frequency (MHz)	Avg FS@3m (dBµV/m)	Avg Limit@3m (dB(uV/m))	Margin (dB)	Height (m)	Azimuth (deg)	Polarity	Correction (dB)
4924.014	50.35	54	-3.65	3.5	260	Horizontal	-5.33
9847.933	50.09	54	-3.91	1.51	168.5	Vertical	0.5
9847.933	49.21	54	-4.79	1.51	2.5	Horizontal	0.5
3282.533	49.18	54	-4.82	1.51	124.75	Vertical	-8.67
4924.733	48.99	54	-5.01	1.51	189.5	Vertical	-5.33

Note: Correction = AF + CF - Preamp

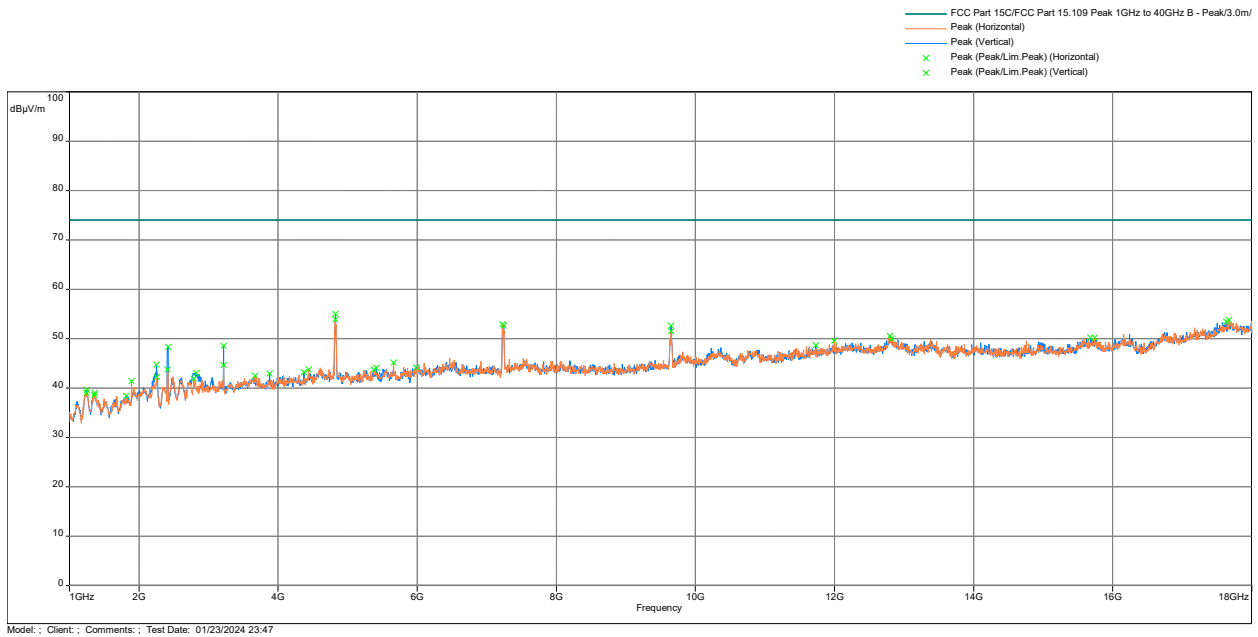
Results	Complies
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Test Results: 15.209 Radiated Spurious Emissions Low Channel, Tx at 802.11g 2412MHz

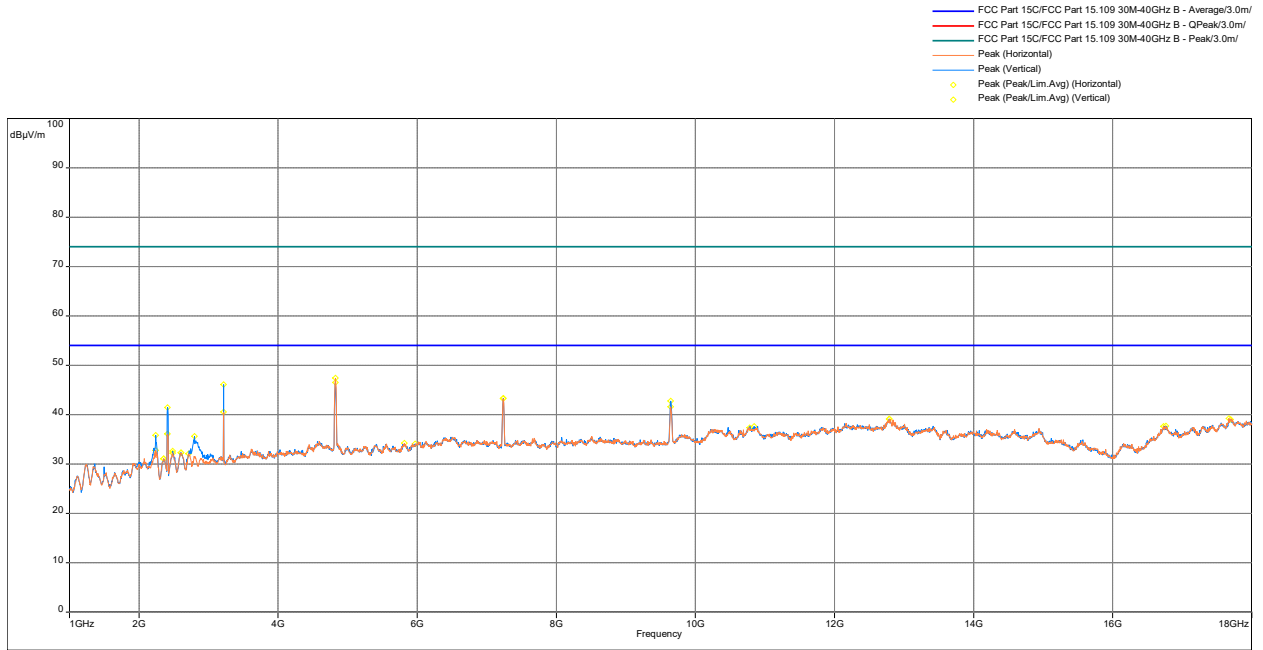
Out-of-Band Radiated Spurious Emissions - 30 MHz to 1000 MHz



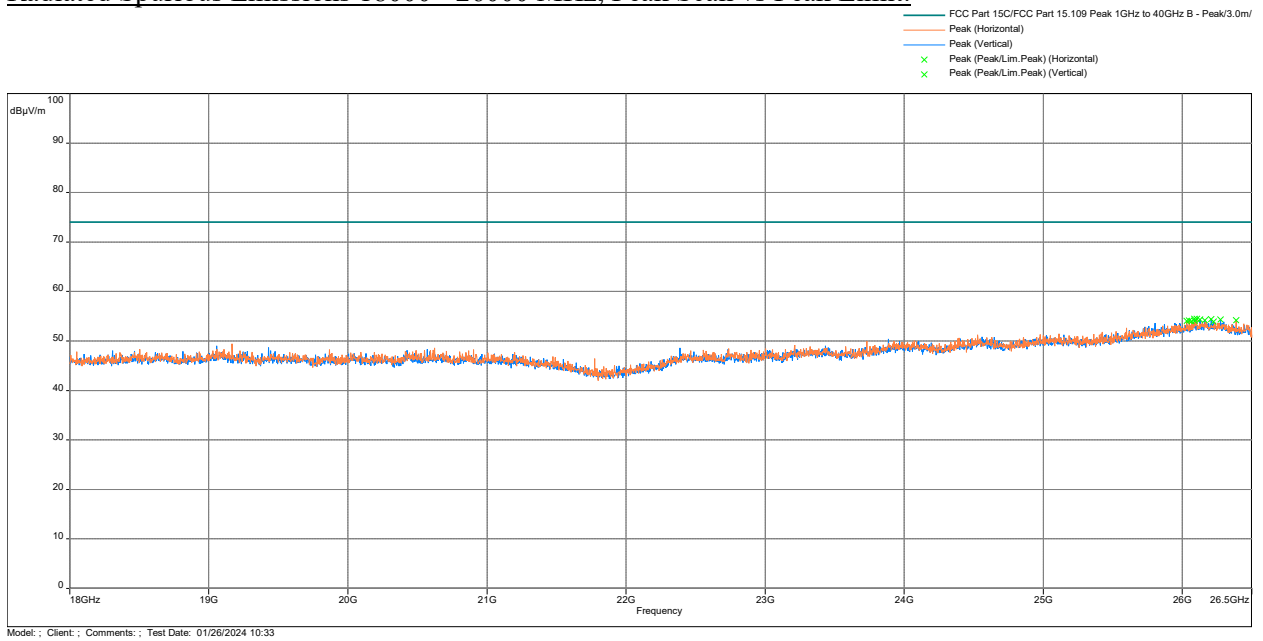
Radiated Spurious Emissions 1000 - 18000 MHz, Peak Scan vs Peak Limit



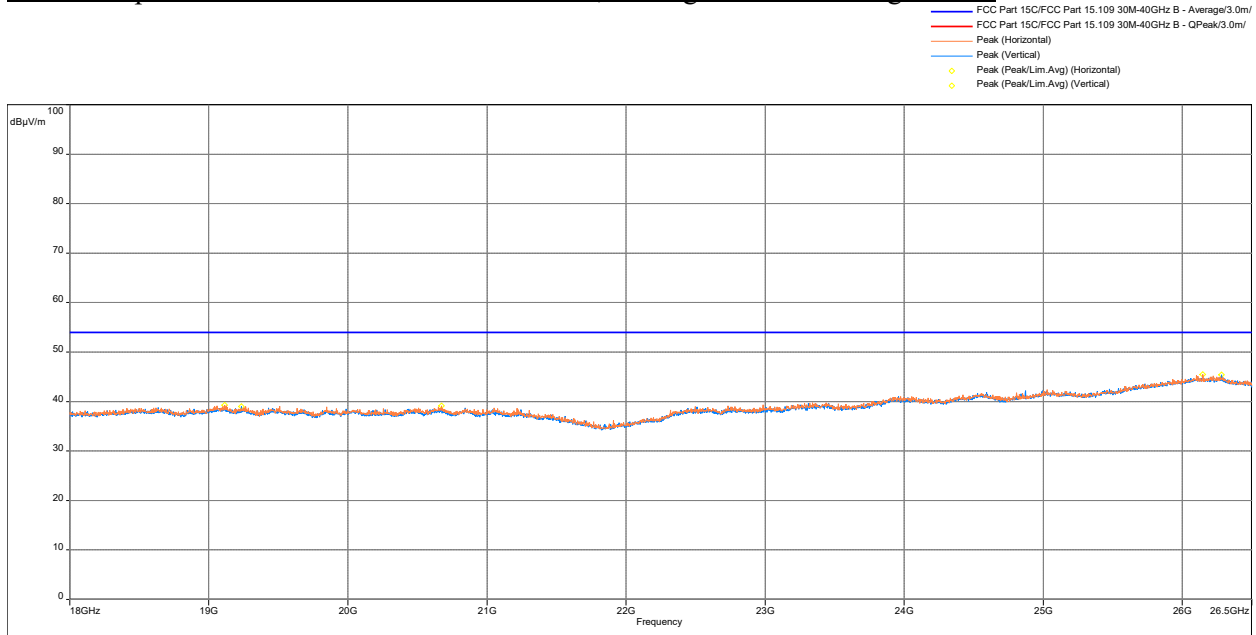
Radiated Spurious Emissions 1000 - 18000 MHz, Average Scan vs Average Limit



Radiated Spurious Emissions 18000 - 26000 MHz, Peak Scan vs Peak Limit.



Radiated Spurious Emissions 18000 - 26000 MHz, Average Scan vs Average Limit.



Model: ; Client: ; Comments: ; Test Date: 01/26/2024 10:36

Note: Correction = AF + CF - Preamp

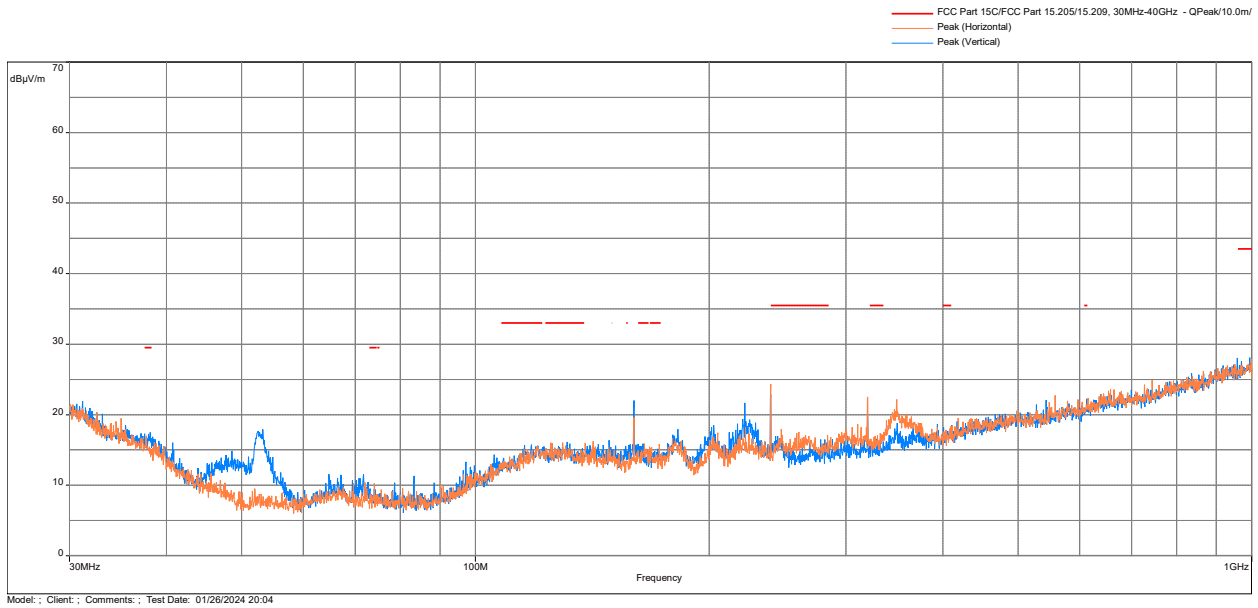
Frequency (MHz)	Avg FS@3m (dBµV/m)	Avg Limit@3m (dB(uV/m))	Margin (dB)	Height (m)	Azimuth (deg)	Polarity	Correction (dB)
4825	47.42	54	-6.58	3.49	254	Horizontal	-5.18
4826.7	46.56	54	-7.44	3.49	189.25	Vertical	-5.18
3215.667	46.13	54	-7.87	2.51	254.5	Vertical	-8.85
7239.567	43.36	54	-10.64	2.51	319.25	Vertical	-2.67
7235.033	43.26	54	-10.74	1.51	169	Horizontal	-2.7
9645.633	42.76	54	-11.24	1.51	145.75	Vertical	-0.6

Note: Correction = AF + CF - Preamp

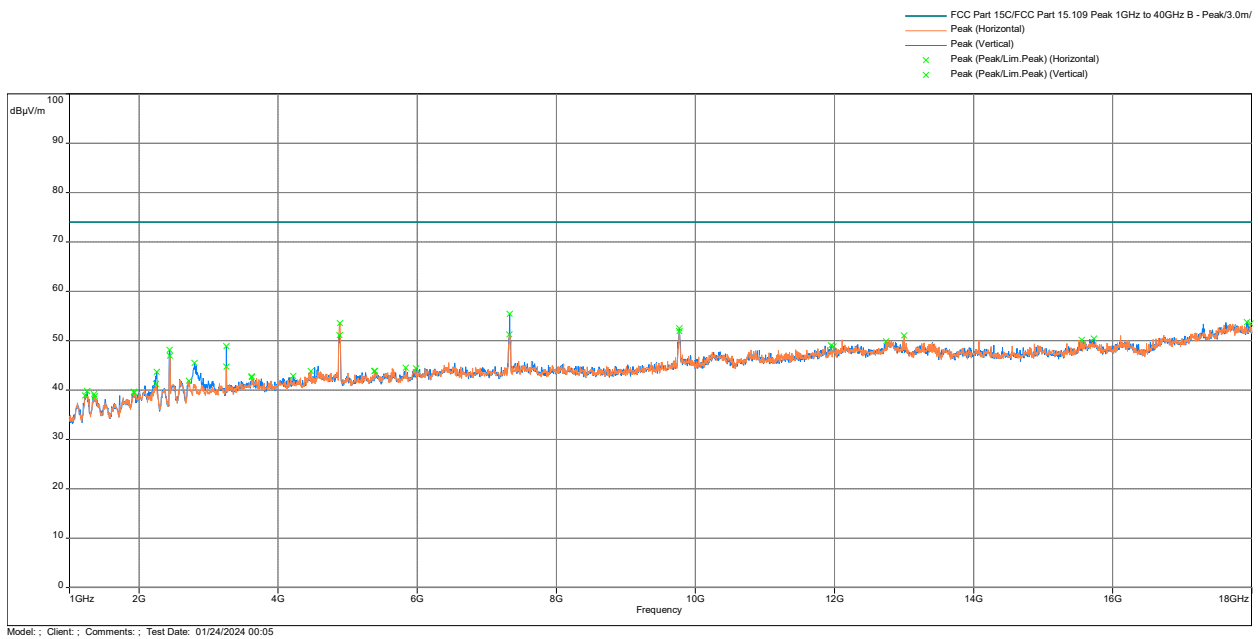
Results **Complies**

Test Results: 15.209 Radiated Spurious Emissions Mid Channel, Tx at 802.11g 2437MHz

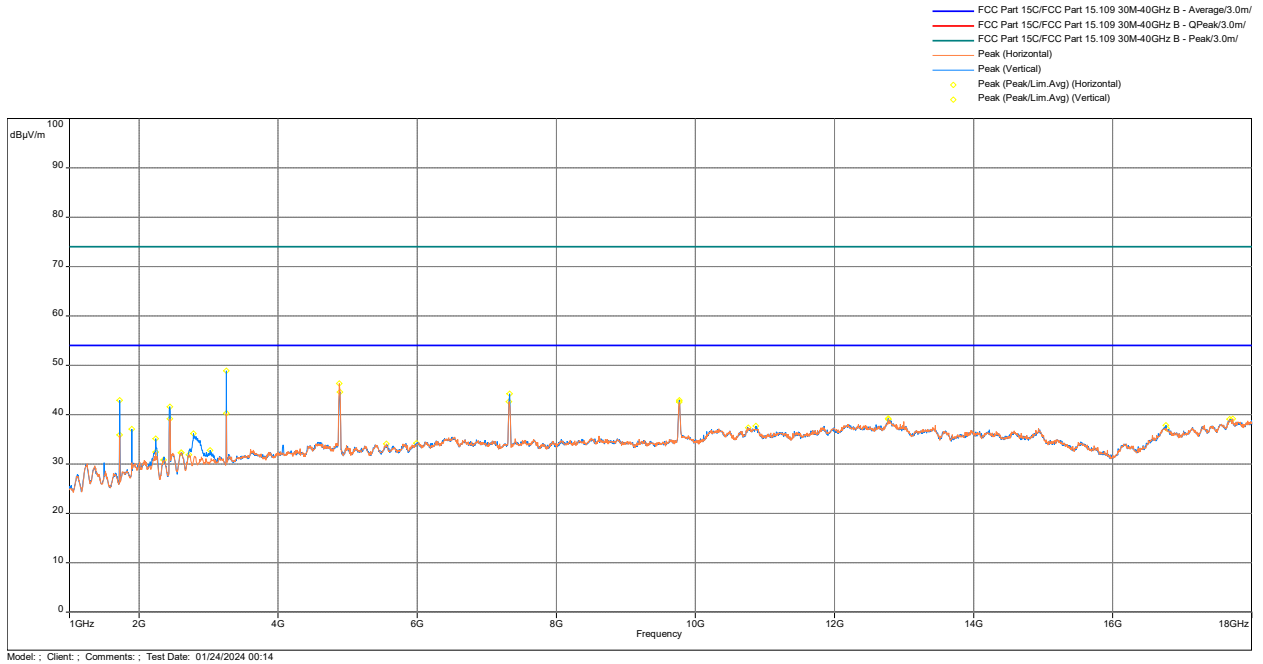
Out-of-Band Radiated Spurious Emissions - 30 MHz to 1000 MHz



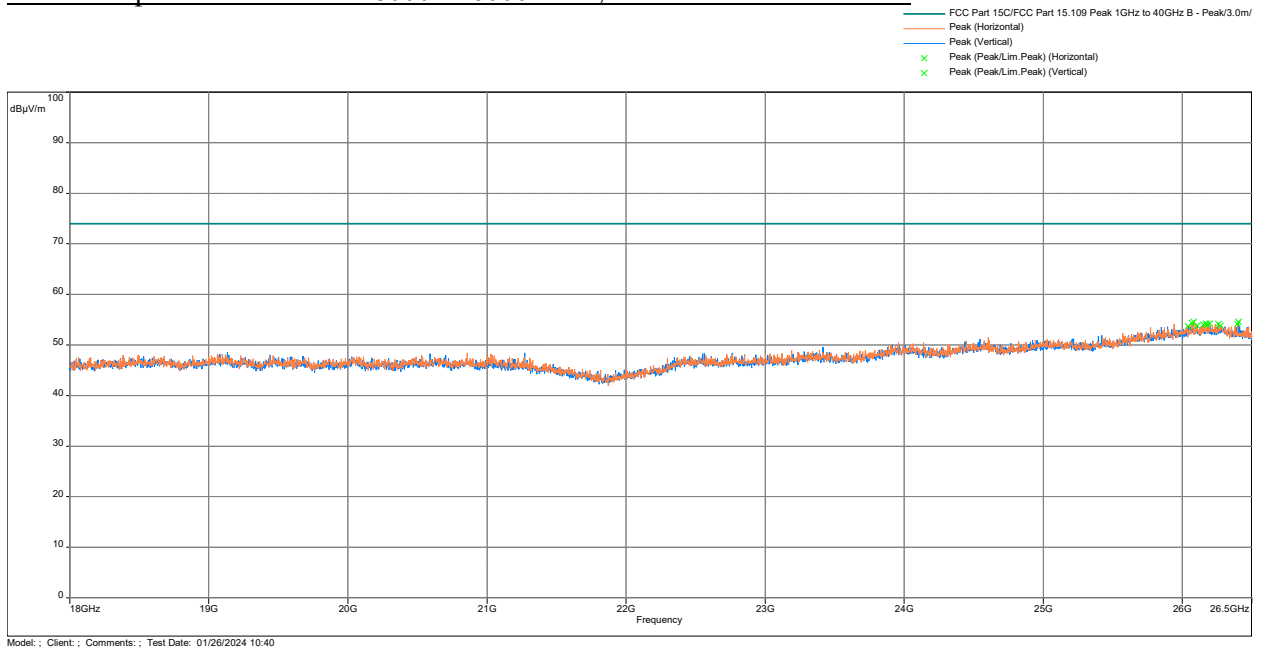
Radiated Spurious Emissions 1000 - 18000 MHz, Peak Scan vs Peak Limit



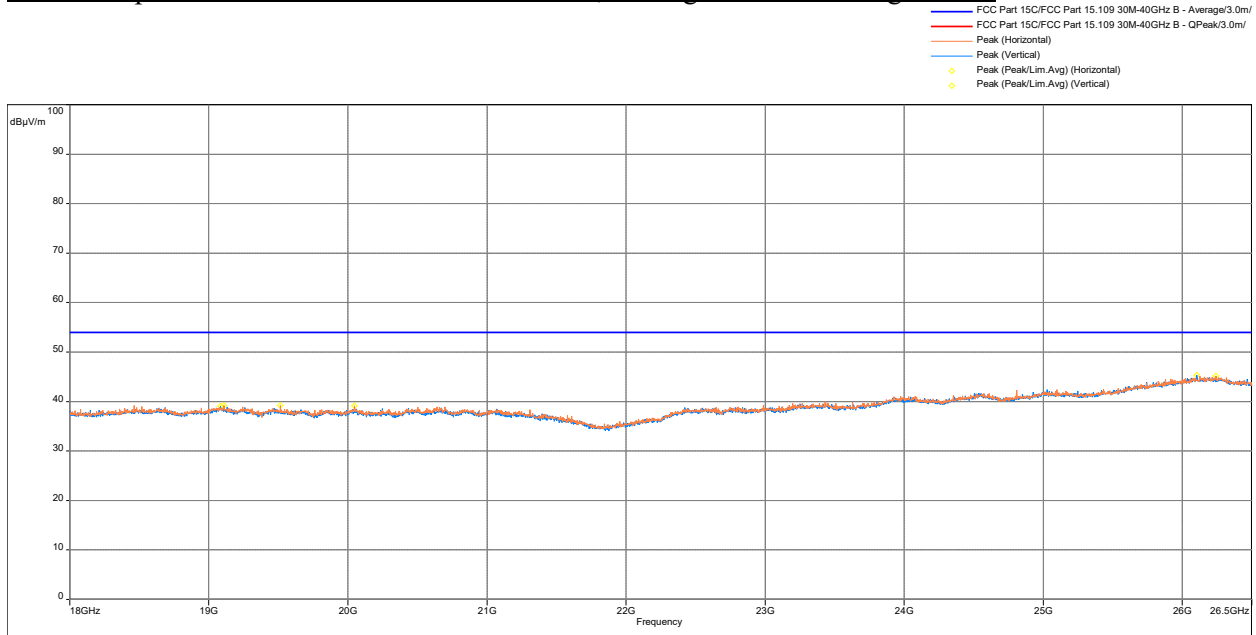
Radiated Spurious Emissions 1000 - 18000 MHz, Average Scan vs Average Limit



Radiated Spurious Emissions 18000 - 26000 MHz, Peak Scan vs Peak Limit.



Radiated Spurious Emissions 18000 - 26000 MHz, Average Scan vs Average Limit.



Note: Correction = AF + CF - Preamp

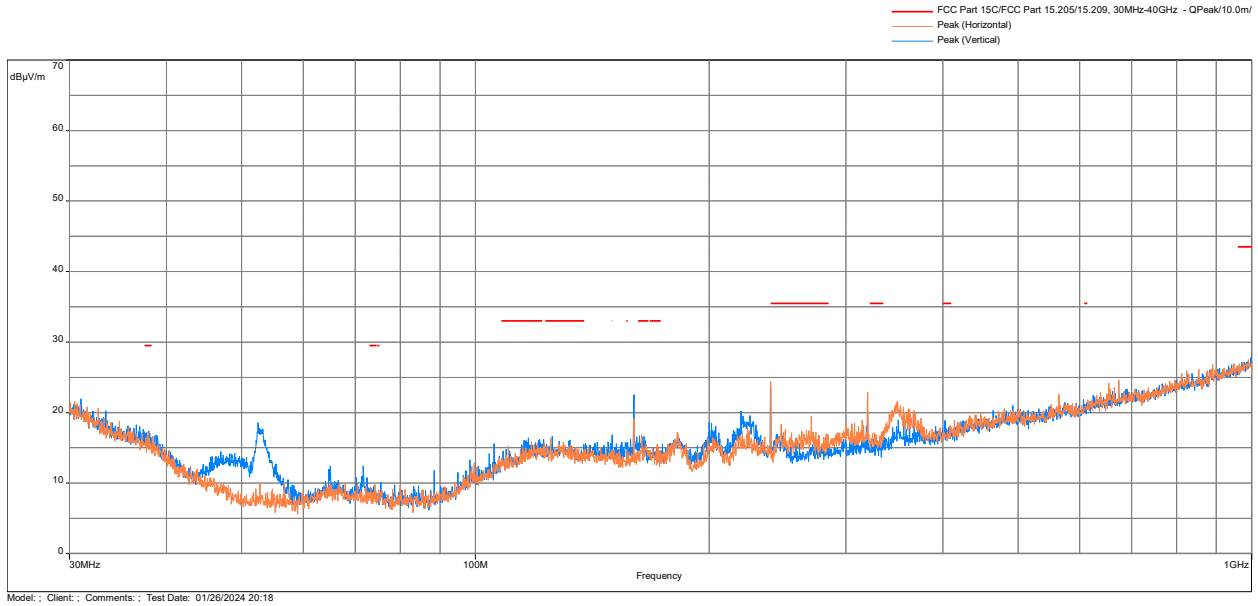
Frequency (MHz)	Avg FS@3m (dBµV/m)	Avg Limit@3m (dB(uV/m))	Margin (dB)	Height (m)	Azimuth (deg)	Polarity	Correction (dB)
3255.9	48.88	54	-5.12	1.51	125.5	Vertical	-8.76
4879.967	46.35	54	-7.65	2.49	254.25	Horizontal	-5.25
4887.333	44.56	54	-9.44	2.51	103.5	Vertical	-5.26
7326.833	44.24	54	-9.76	1.51	145.75	Vertical	-2.22
9747.467	42.92	54	-11.08	2.51	147.75	Vertical	0.1
1721.933	42.91	54	-11.09	2.51	212	Vertical	-14.57

Note: Correction = AF + CF - Preamp

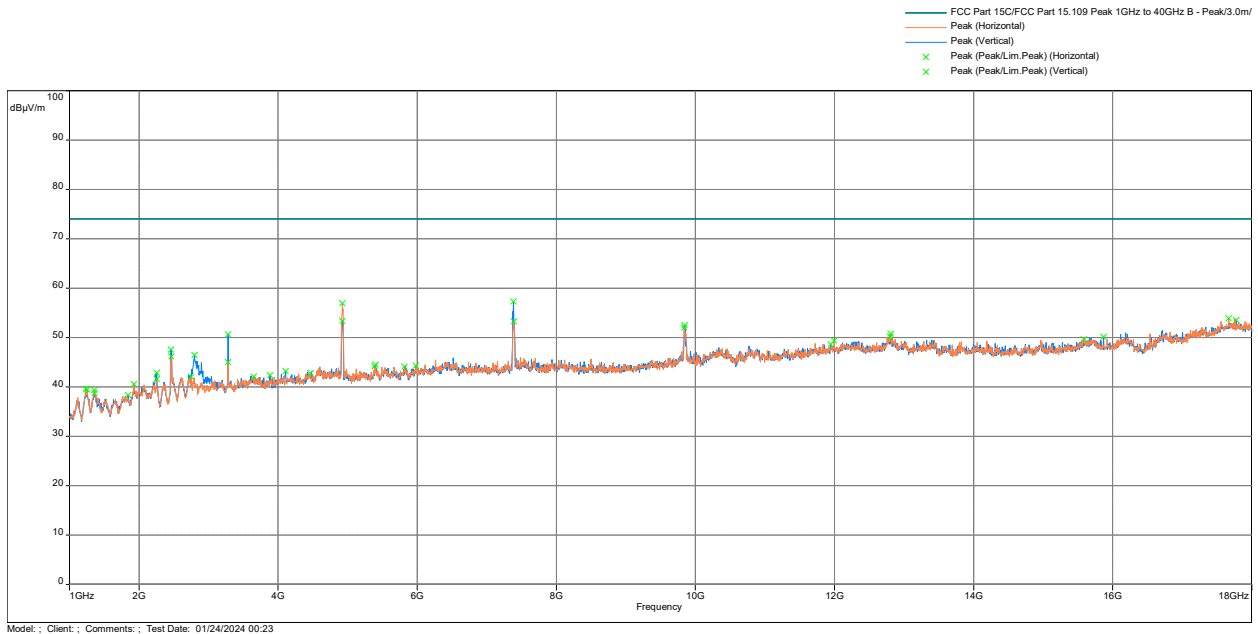
Results **Complies**

Test Results: 15.209 Radiated Spurious Emissions High Channel, Tx at 802.11g 2462MHz

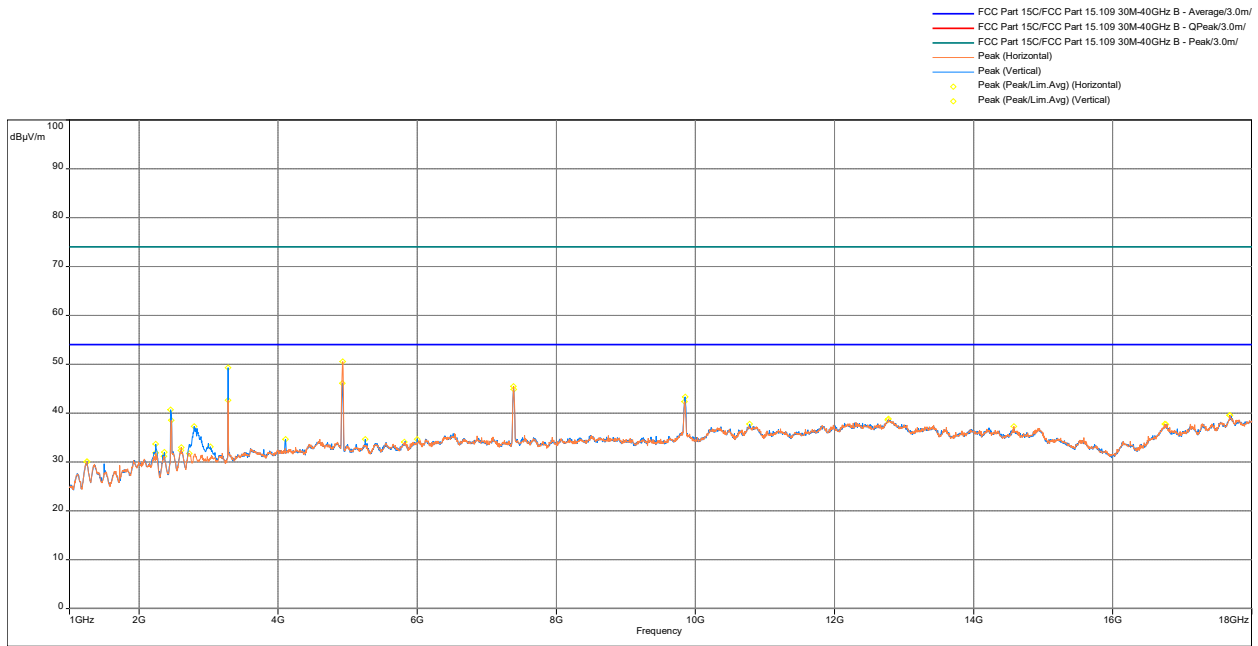
Out-of-Band Radiated Spurious Emissions - 30 MHz to 1000 MHz



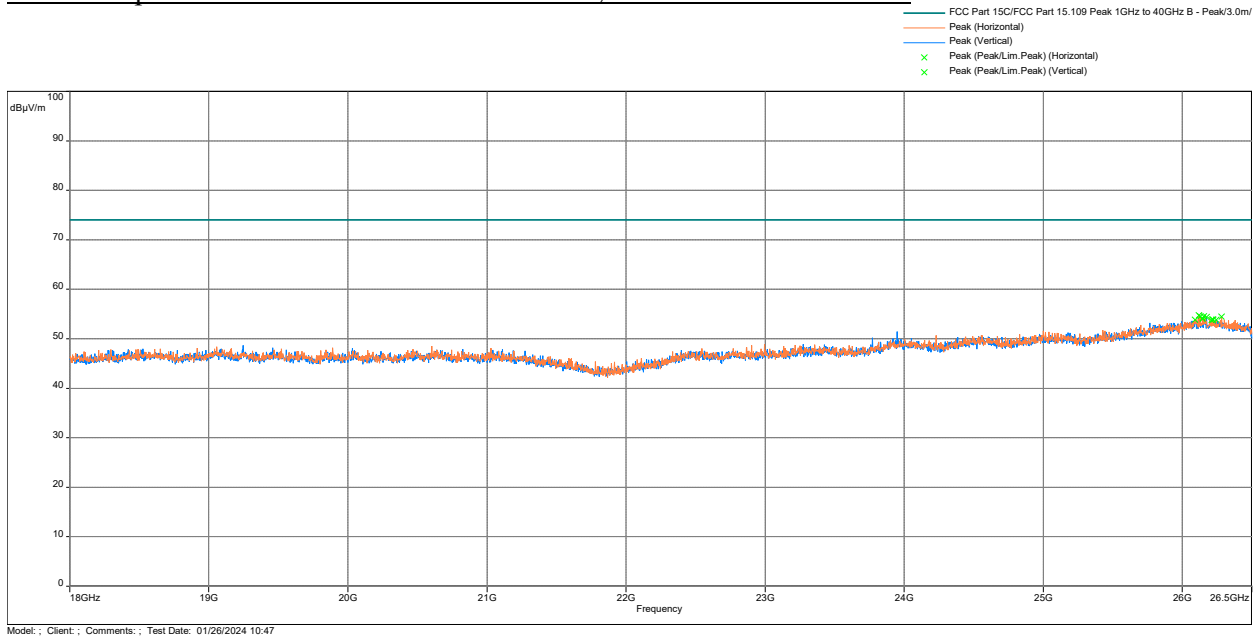
Radiated Spurious Emissions 1000 - 18000 MHz, Peak Scan vs Peak Limit



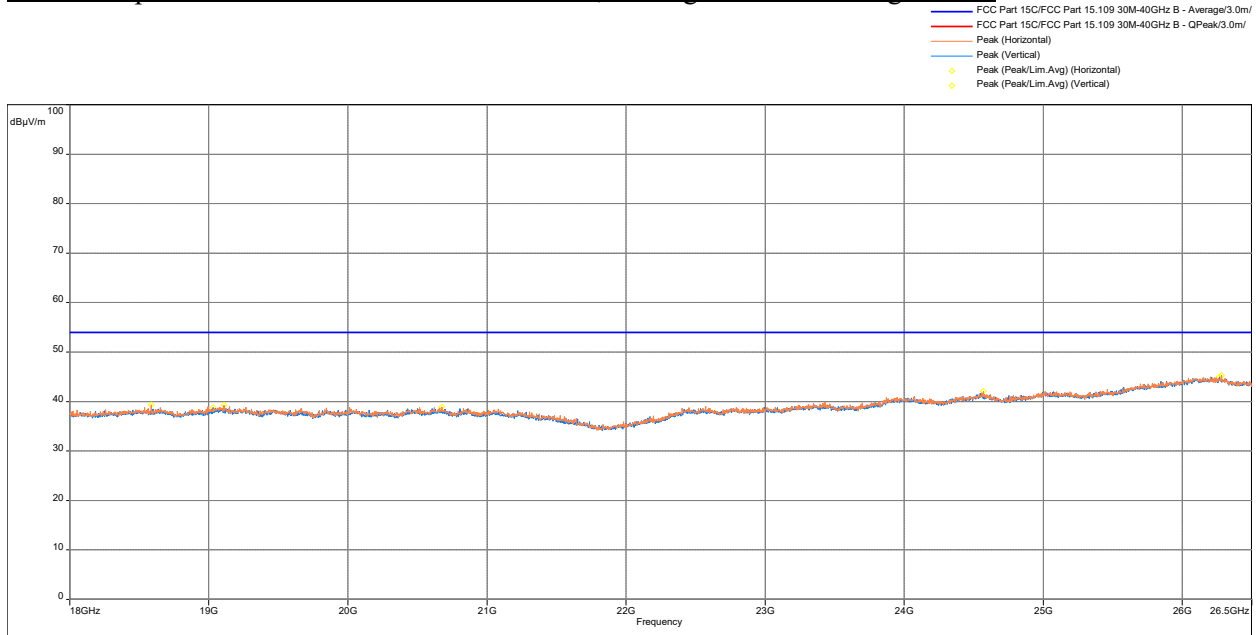
Radiated Spurious Emissions 1000 - 18000 MHz, Average Scan vs Average Limit



Radiated Spurious Emissions 18000 - 26000 MHz, Peak Scan vs Peak Limit.



Radiated Spurious Emissions 18000 - 26000 MHz, Average Scan vs Average Limit.



Note: Correction = AF + CF - Preamp

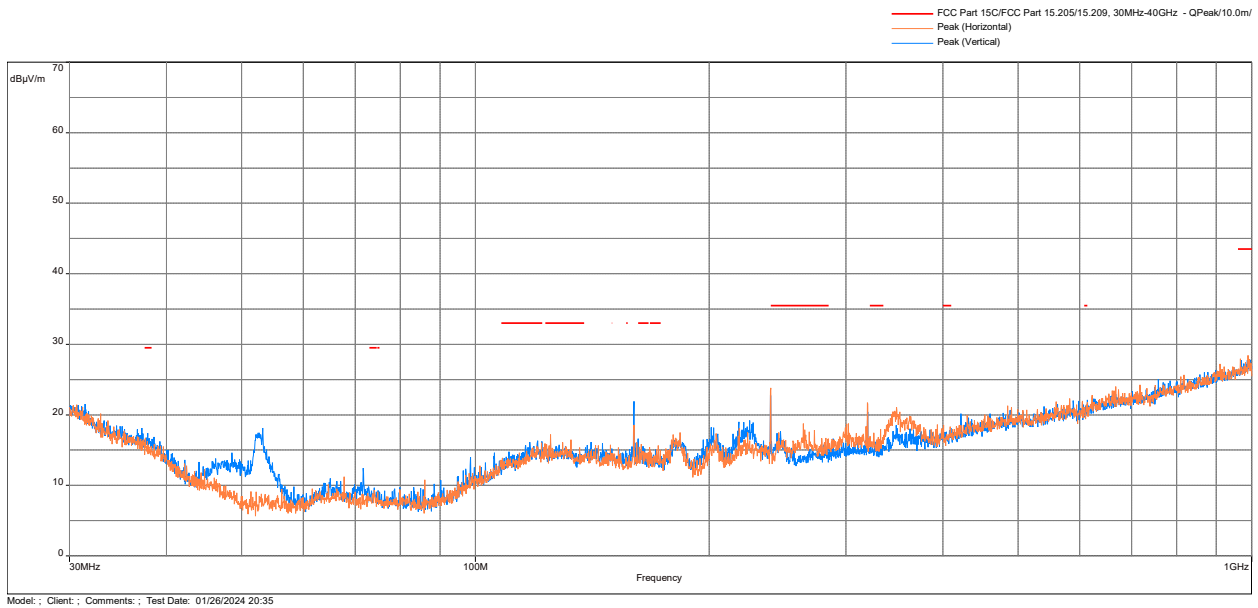
Frequency (MHz)	Avg FS@3m (dBμV/m)	Avg Limit@3m (dB(uV/m))	Margin (dB)	Height (m)	Azimuth (deg)	Polarity	Correction (dB)
4928.133	50.54	54	-3.46	3.49	254.5	Horizontal	-5.34
3282.533	49.32	54	-4.68	1.51	125.25	Vertical	-8.67
4925.3	46.11	54	-7.89	1.51	189.75	Vertical	-5.33
7384.067	45.46	54	-8.54	1.51	168.5	Horizontal	-1.86
7389.167	44.88	54	-9.12	2.51	277	Vertical	-1.82
9852.467	43.31	54	-10.69	1.51	168.75	Vertical	0.51
3282.533	42.63	54	-11.37	2.49	254.25	Horizontal	-8.67

Note: Correction = AF + CF - Preamp

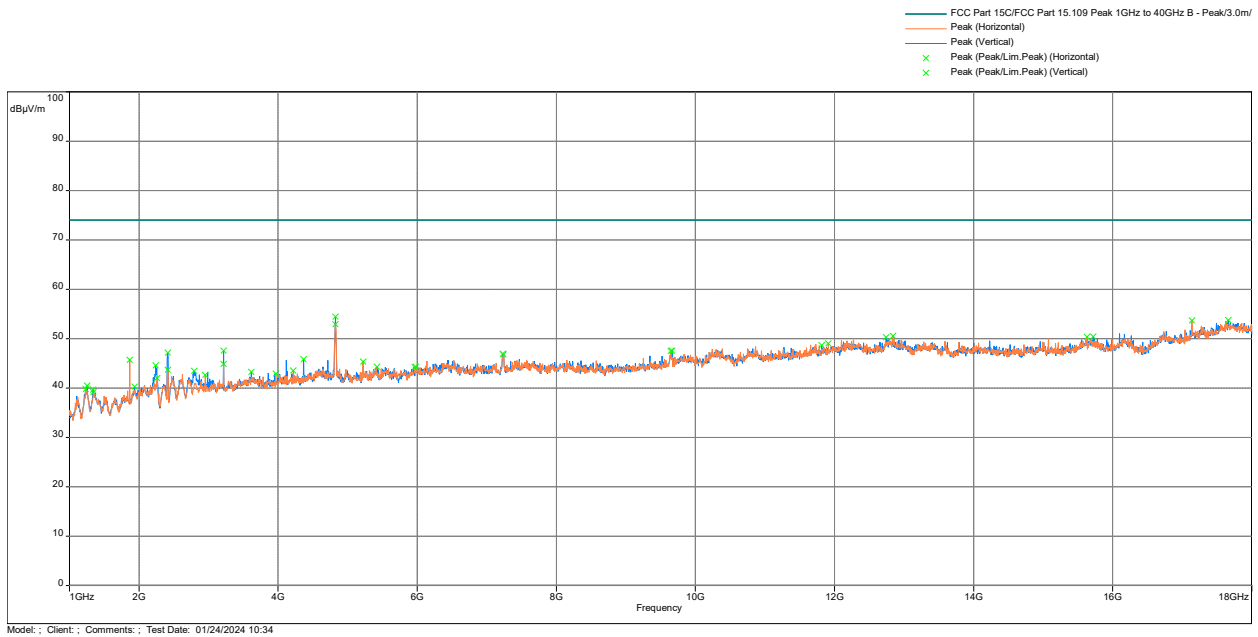
Results	Complies
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Test Results: 15.209 Radiated Spurious Emissions Low Channel, Tx at 802.11n 20MHz, 2412MHz

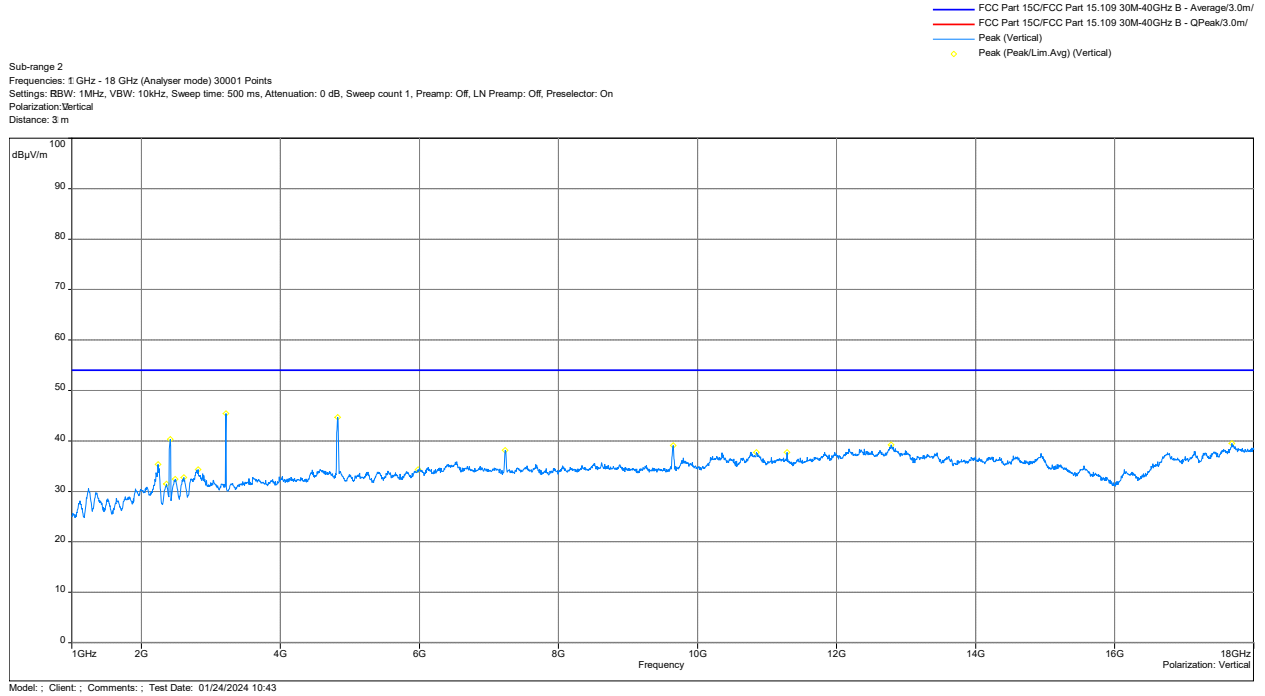
Out-of-Band Radiated Spurious Emissions - 30 MHz to 1000 MHz



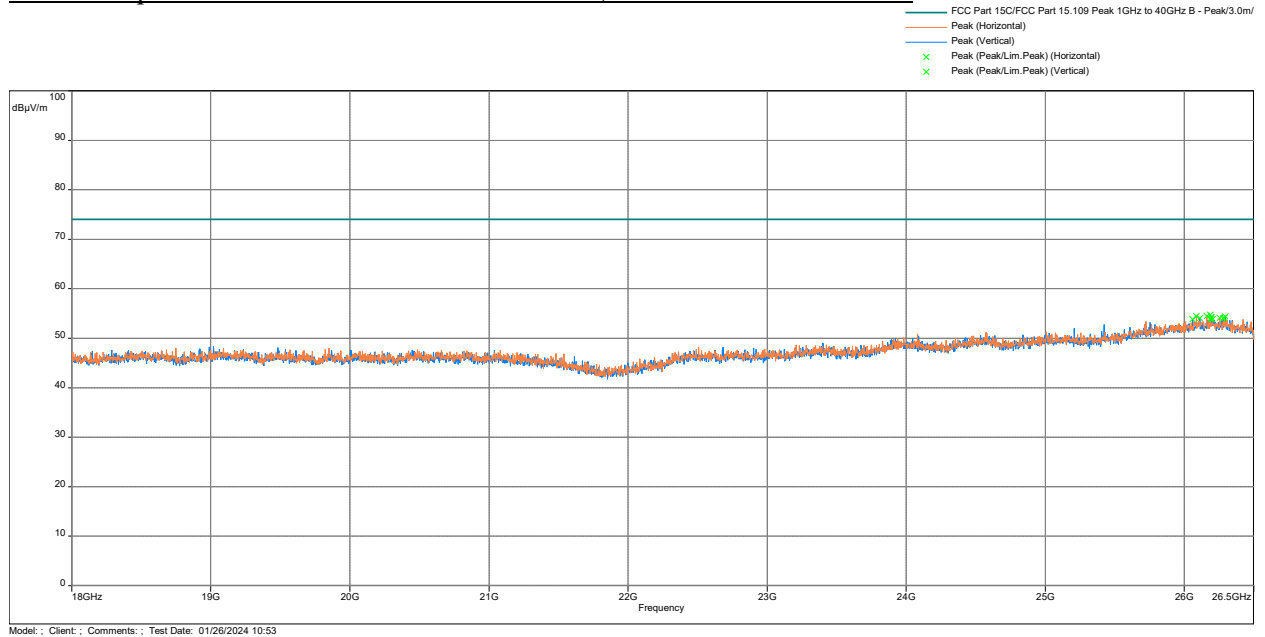
Radiated Spurious Emissions 1000 - 18000 MHz, Peak Scan vs Peak Limit



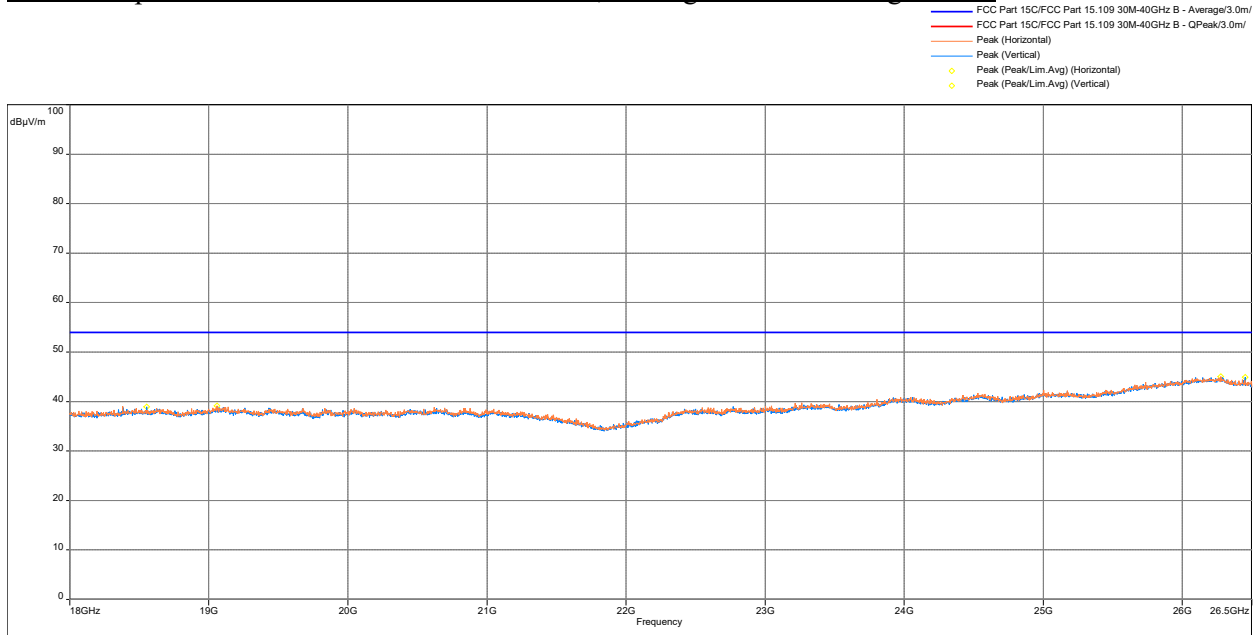
Radiated Spurious Emissions 1000 - 18000 MHz, Average Scan vs Average Limit



Radiated Spurious Emissions 18000 - 26000 MHz, Peak Scan vs Peak Limit.



Radiated Spurious Emissions 18000 - 26000 MHz, Average Scan vs Average Limit.



Model: ; Client: ; Comments: ; Test Date: 01/26/2024 10:55

Note: Correction = AF + CF - Preamp

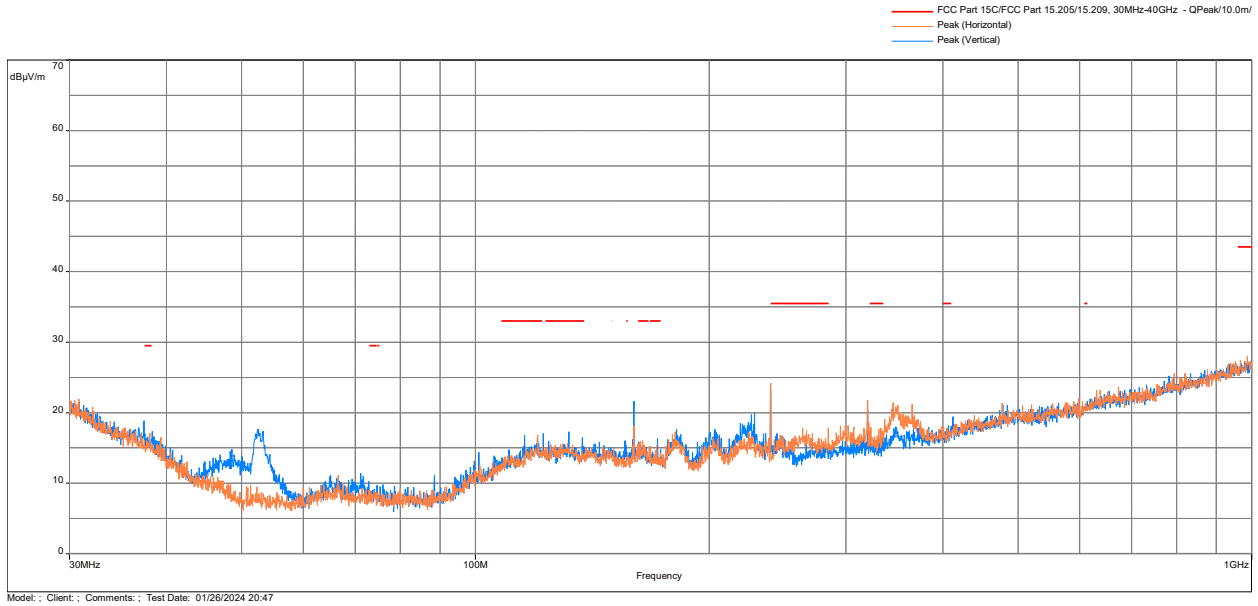
Frequency (MHz)	Avg FS@3m (dBµV/m)	Avg Limit@3m (dB(uV/m))	Margin (dB)	Height (m)	Azimuth (deg)	Polarity	Correction (dB)
3215.667	45.44	54	-8.56	2.49	255	Vertical	-8.85
4823.3	45.23	54	-8.77	3.49	255.75	Horizontal	-5.18
4823.867	44.69	54	-9.31	3.49	189.25	Vertical	-5.18
3215.667	40.58	54	-13.42	2.51	254.75	Horizontal	-8.85
2414.4	40.35	54	-13.65	3.49	318.25	Vertical	-10.78

Note: Correction = AF + CF - Preamp

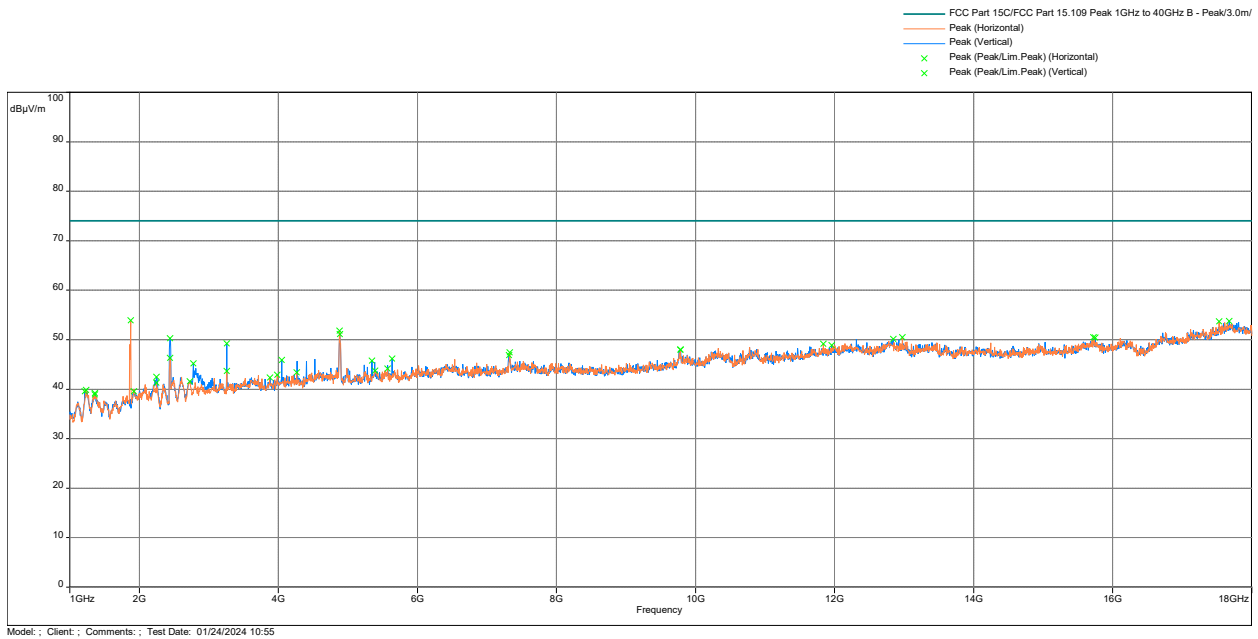
Results	Complies
----------------	-----------------

Test Results: 15.209 Radiated Spurious Emissions Mid Channel, Tx at 802.11n 20MHz, 2437MHz

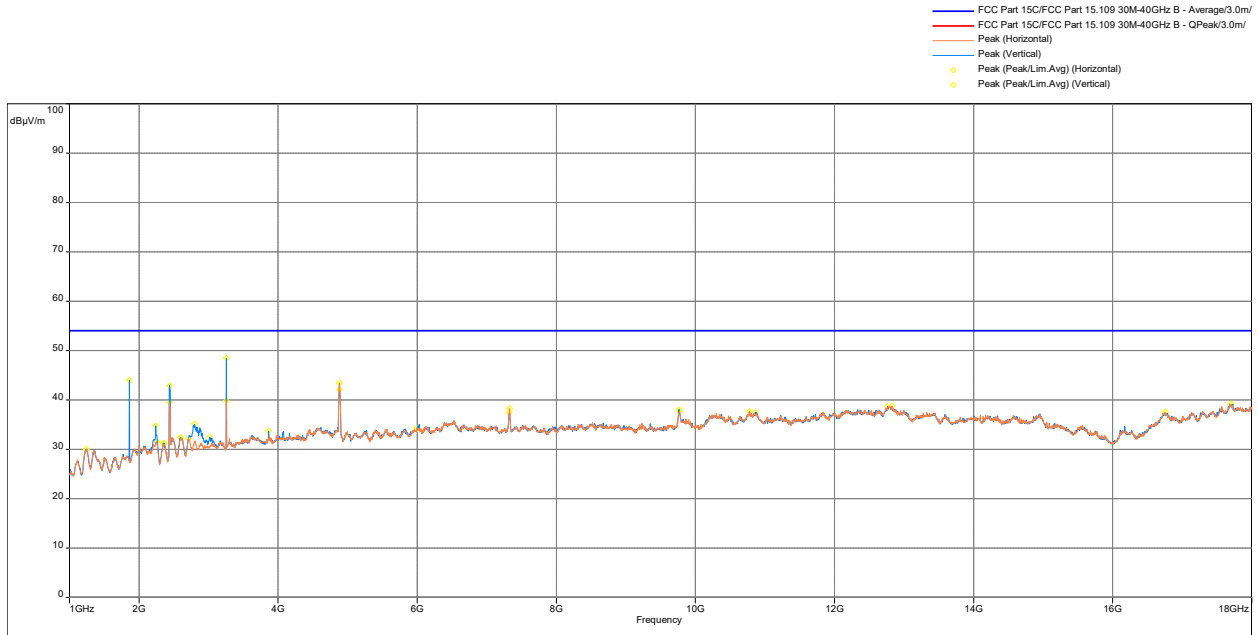
Out-of-Band Radiated Spurious Emissions - 30 MHz to 1000 MHz



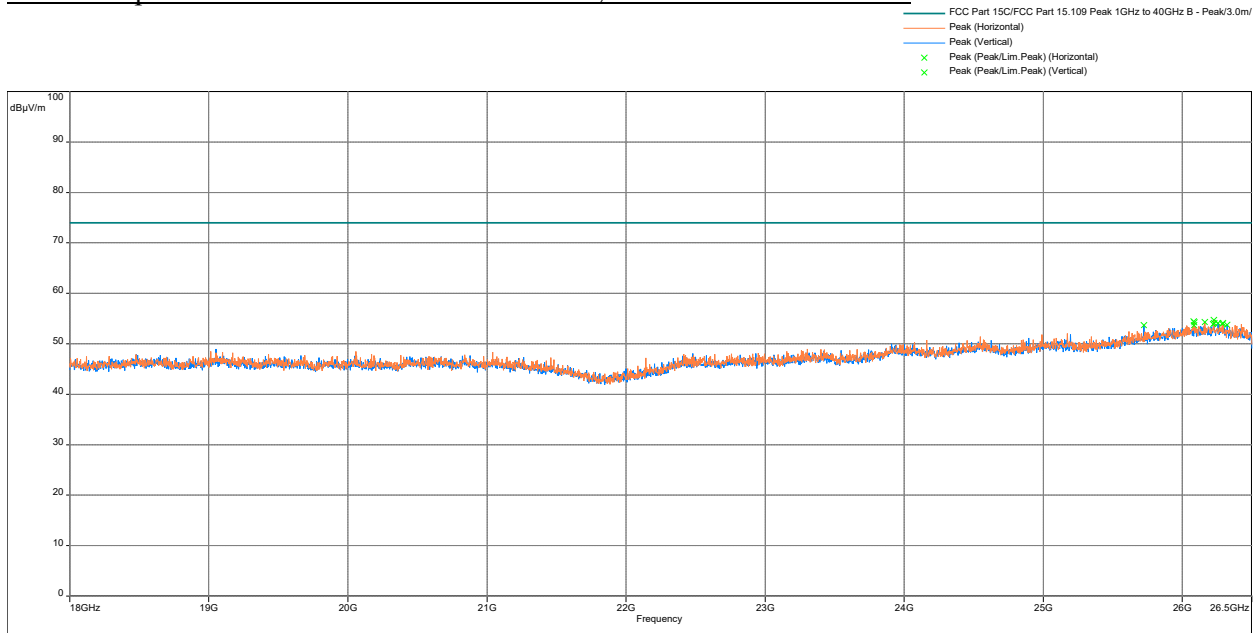
Radiated Spurious Emissions 1000 - 18000 MHz, Peak Scan vs Peak Limit



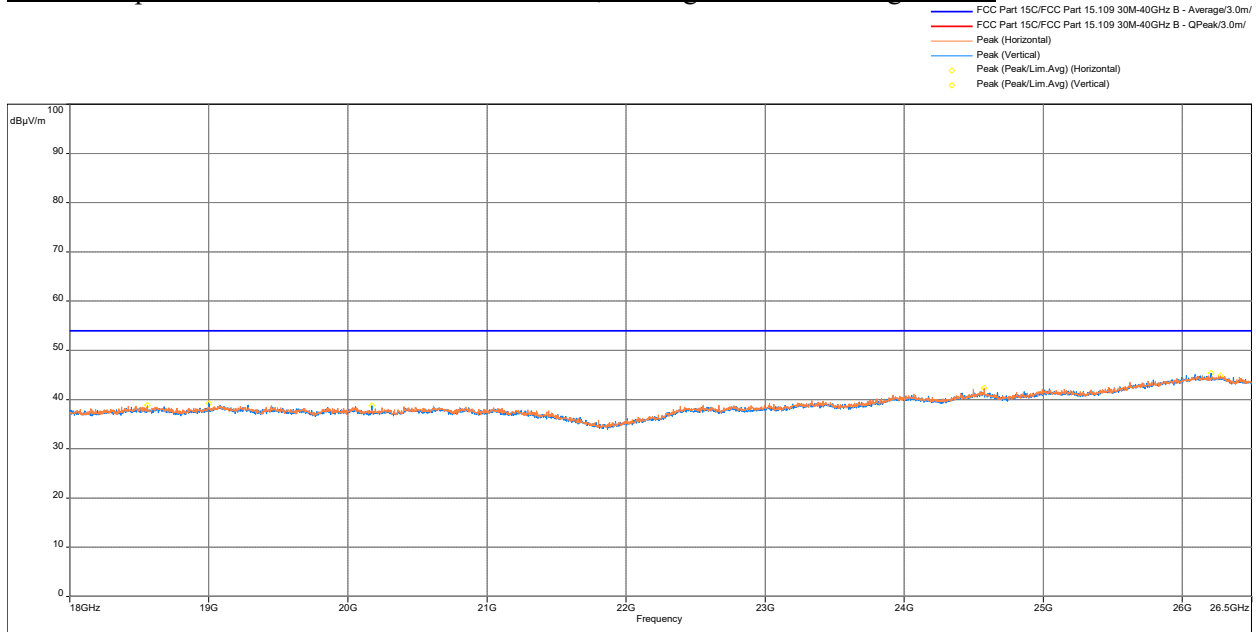
Radiated Spurious Emissions 1000 - 18000 MHz, Average Scan vs Average Limit



Radiated Spurious Emissions 18000 - 26000 MHz, Peak Scan vs Peak Limit.



Radiated Spurious Emissions 18000 - 26000 MHz, Average Scan vs Average Limit.



Note: Correction = AF + CF - Preamp

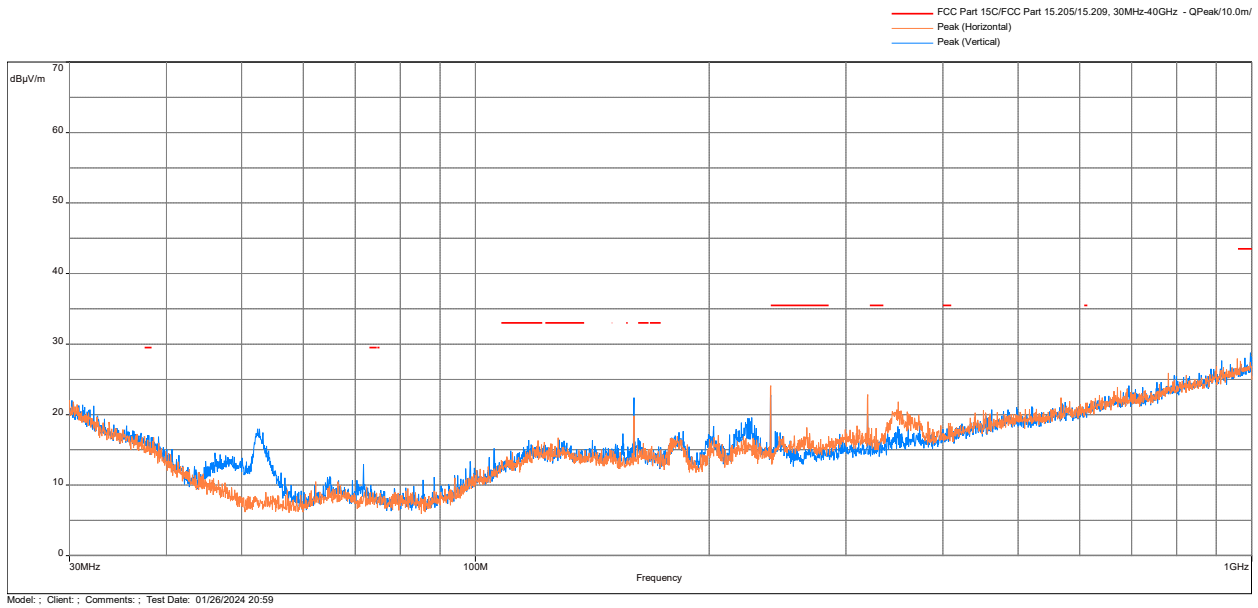
Frequency (MHz)	Avg FS@3m (dBµV/m)	Avg Limit@3m (dB(uV/m))	Margin (dB)	Height (m)	Azimuth (deg)	Polarity	Correction (dB)
3255.9	48.45	54	-5.55	1.51	124.75	Vertical	-8.76
1861.333	44.03	54	-9.97	2.49	60.75	Vertical	-13.07
4873.933	43.49	54	-10.51	2.51	210.5	Horizontal	-5.25
2441.033	42.96	54	-11.04	3.49	318.25	Vertical	-10.51
4873.5	42.11	54	-11.89	2.49	190	Vertical	-5.25
3255.9	39.86	54	-14.14	2.51	254	Horizontal	-8.76

Note: Correction = AF + CF - Preamp

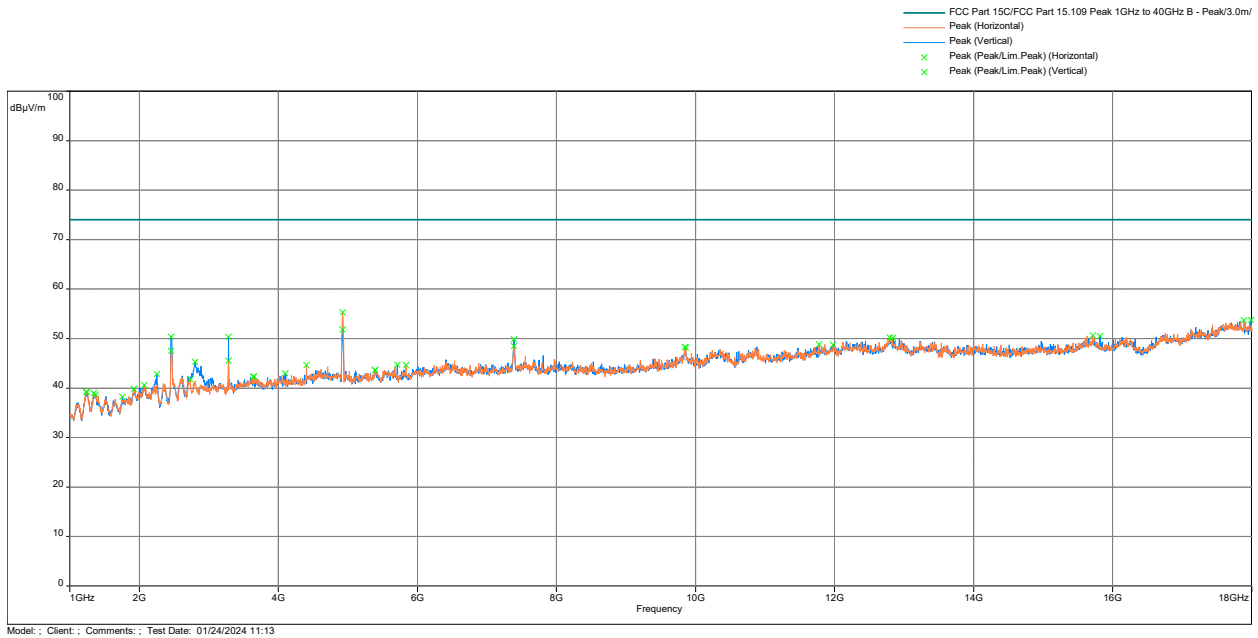
Results **Complies**

Test Results: 15.209 Radiated Spurious Emissions High Channel, Tx at 802.11n 20MHz, 2462MHz

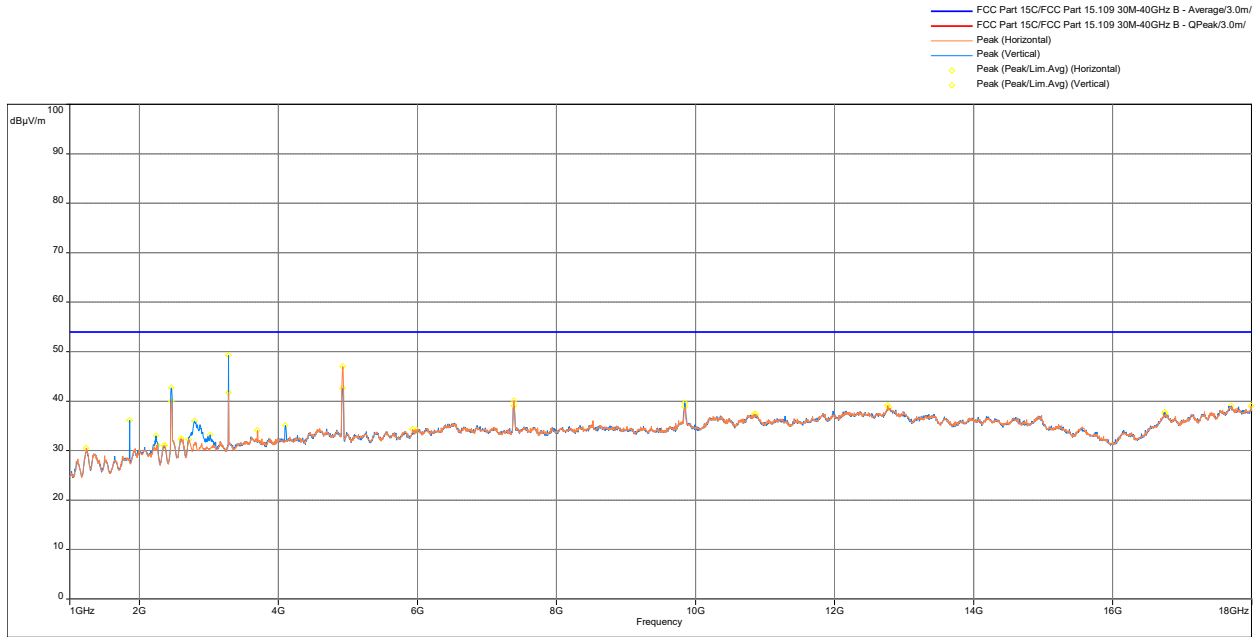
Out-of-Band Radiated Spurious Emissions - 30 MHz to 1000 MHz



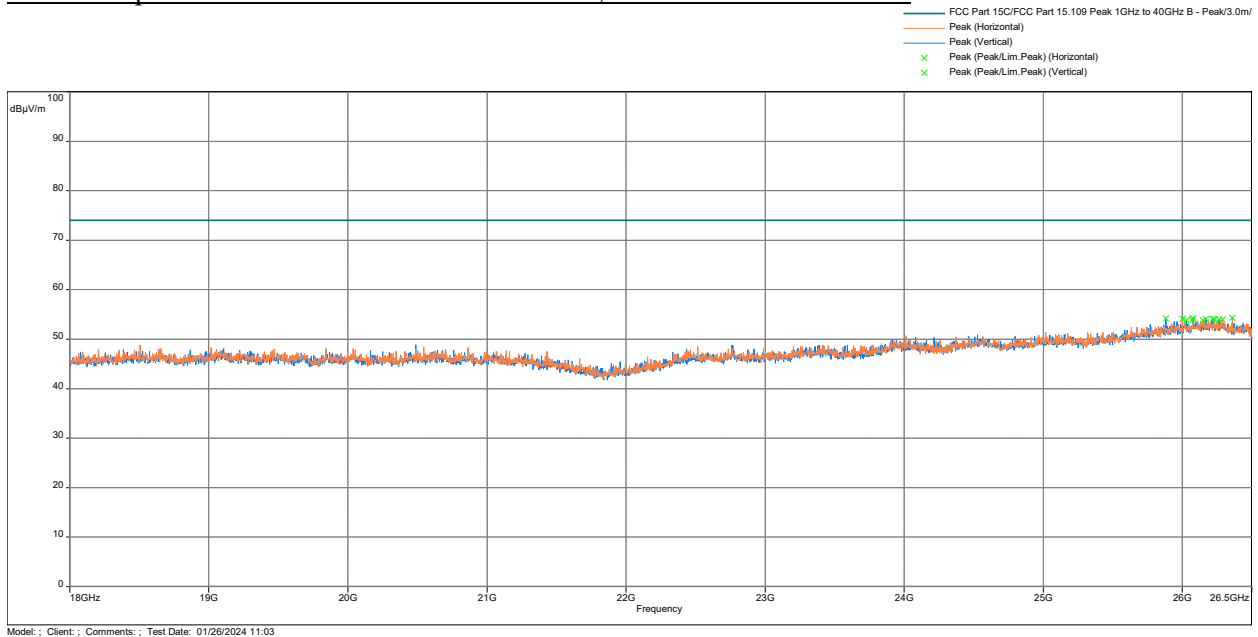
Radiated Spurious Emissions 1000 - 18000 MHz, Peak Scan vs Peak Limit



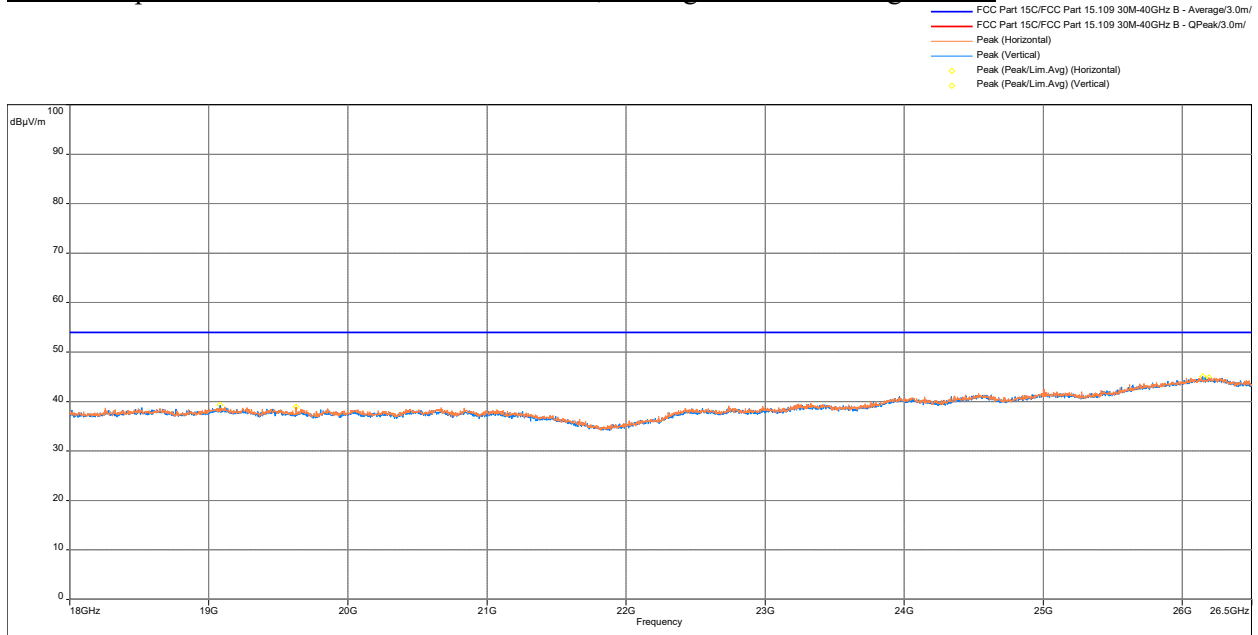
Radiated Spurious Emissions 1000 - 18000 MHz, Average Scan vs Average Limit



Radiated Spurious Emissions 18000 - 26000 MHz, Peak Scan vs Peak Limit.



Radiated Spurious Emissions 18000 - 26000 MHz, Average Scan vs Average Limit.



Note: Correction = AF + CF - Preamp

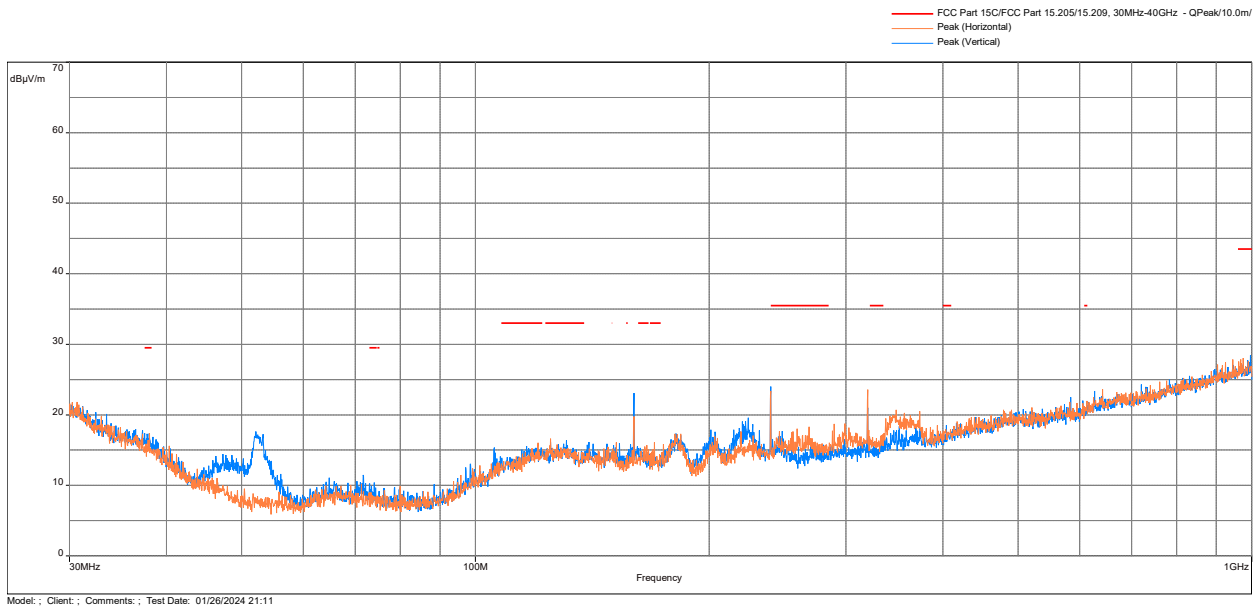
Frequency (MHz)	Avg FS@3m (dBµV/m)	Avg Limit@3m (dB(uV/m))	Margin (dB)	Height (m)	Azimuth (deg)	Polarity	Correction (dB)
3282.533	49.3	54	-4.7	1.51	124.75	Vertical	-8.67
4923.6	47.04	54	-6.96	3.49	255.5	Horizontal	-5.33
2460.3	42.7	54	-11.3	3.49	318.75	Vertical	-10.34
4926.433	42.6	54	-11.4	1.51	210	Vertical	-5.33
3282.533	41.7	54	-12.3	2.51	254.25	Horizontal	-8.67
7385.767	40.1	54	-13.9	3.49	255.5	Horizontal	-1.85

Note: Correction = AF + CF - Preamp

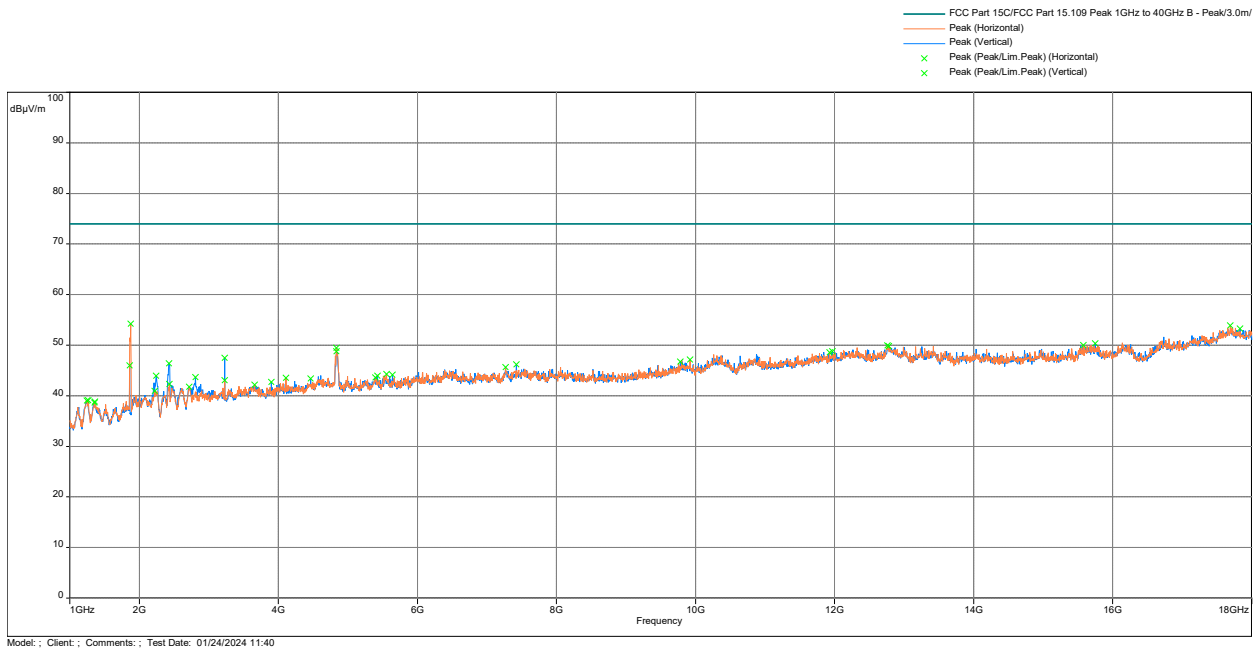
Results	Complies
----------------	-----------------

Test Results: 15.209 Radiated Spurious Emissions Low Channel, Tx at 802.11n 40MHz, 2422MHz

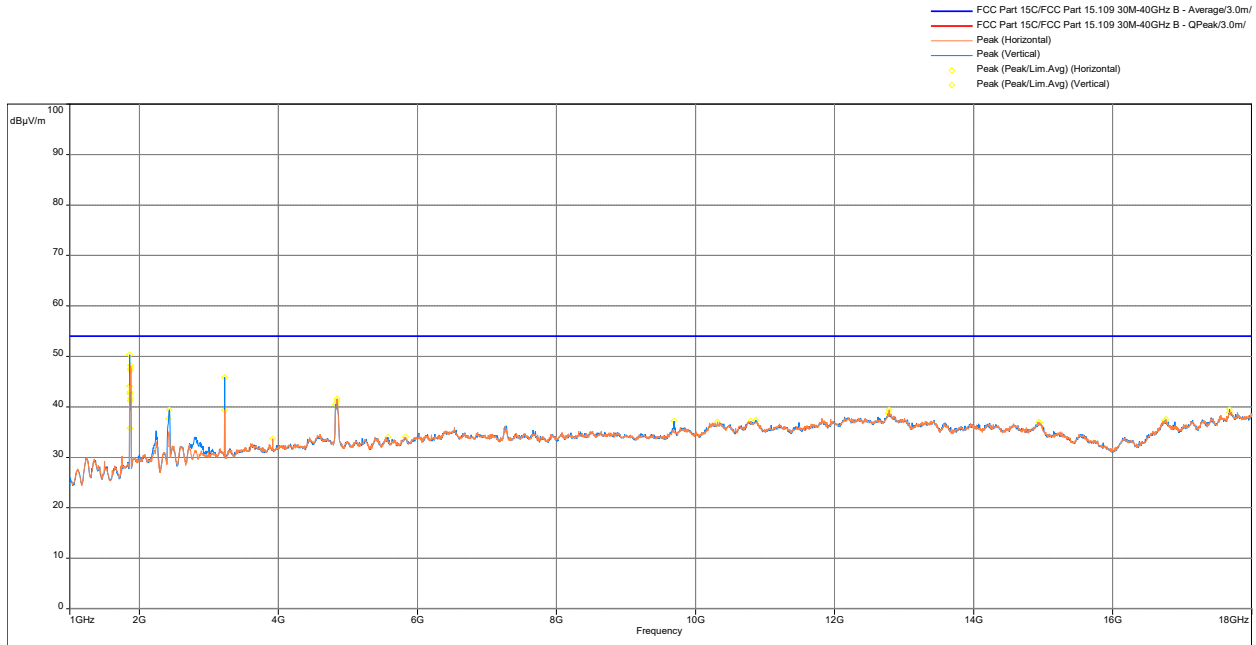
Out-of-Band Radiated Spurious Emissions - 30 MHz to 1000 MHz



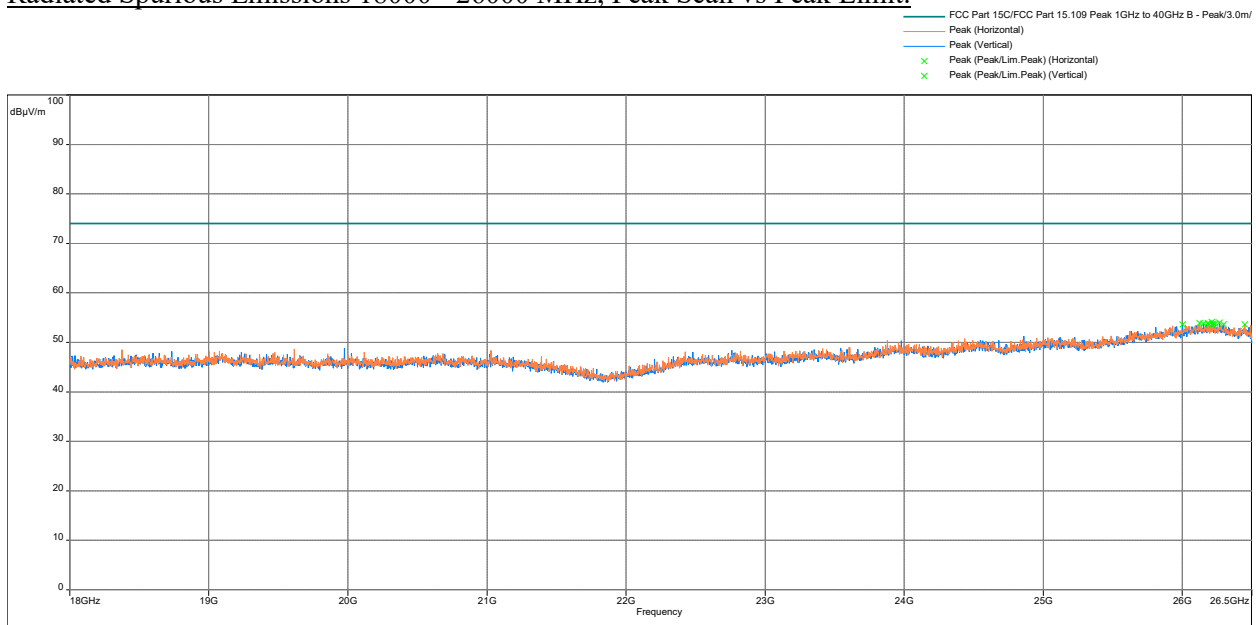
Radiated Spurious Emissions 1000 - 18000 MHz, Peak Scan vs Peak Limit



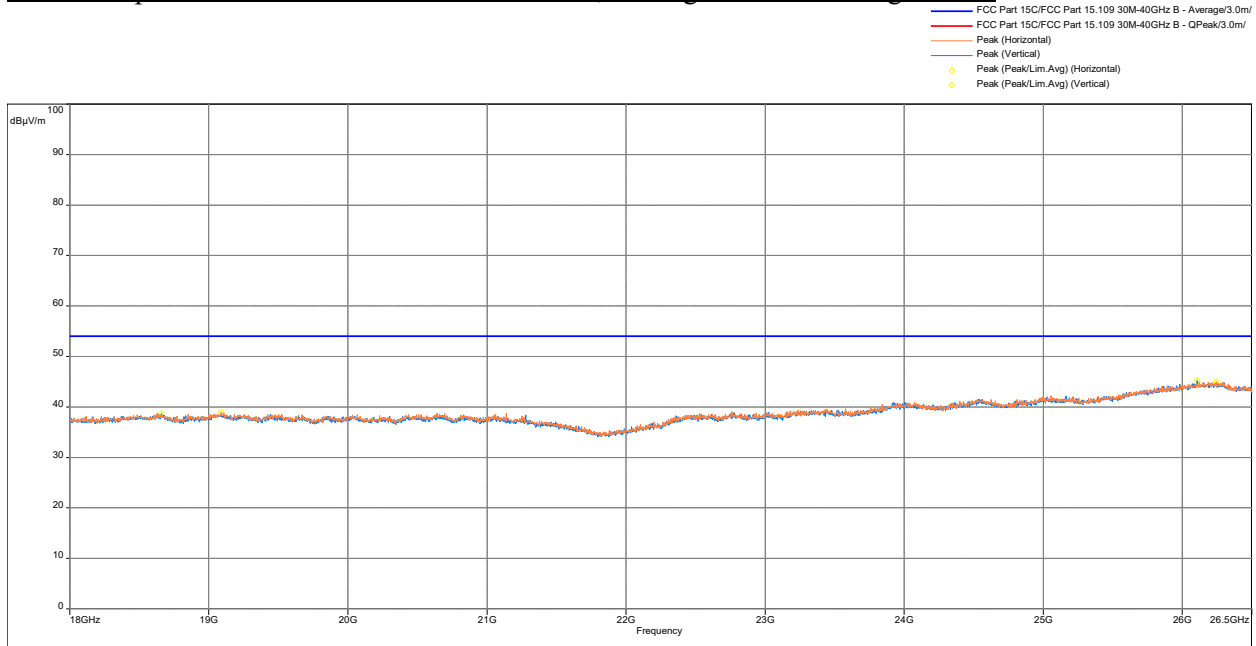
Radiated Spurious Emissions 1000 - 18000 MHz, Average Scan vs Average Limit



Radiated Spurious Emissions 18000 - 26000 MHz, Peak Scan vs Peak Limit.



Radiated Spurious Emissions 18000 - 26000 MHz, Average Scan vs Average Limit.



Note: Correction = AF + CF - Preamp

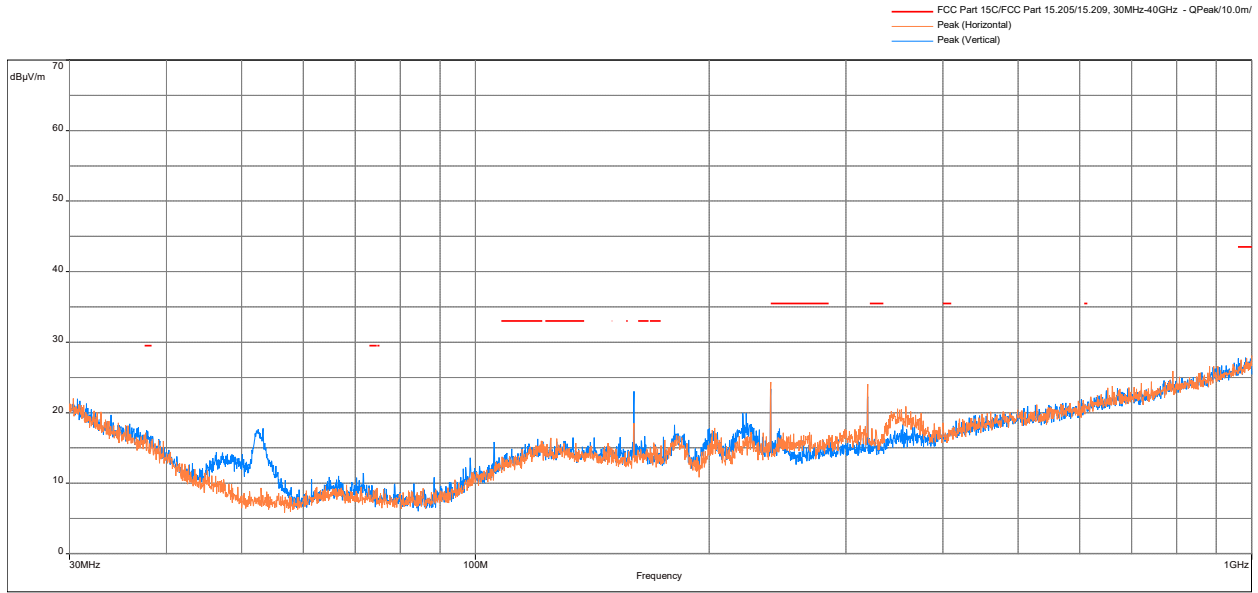
Frequency (MHz)	Avg FS@3m (dBuV/m)	Avg Limit@3m (dB(uV/m))	Margin (dB)	Height (m)	Azimuth (deg)	Polarity	Correction (dB)
1861.9	50.36	54	-3.64	2.49	320.25	Vertical	-13.06
1874.367	48.23	54	-5.77	1.51	124.5	Horizontal	-12.94
1877.767	47.6	54	-6.4	2.49	103.5	Vertical	-12.91
1875.5	47.21	54	-6.79	3.49	60	Vertical	-12.93
3229.267	45.87	54	-8.13	2.49	255.5	Vertical	-8.83

Note: Correction = AF + CF - Preamp

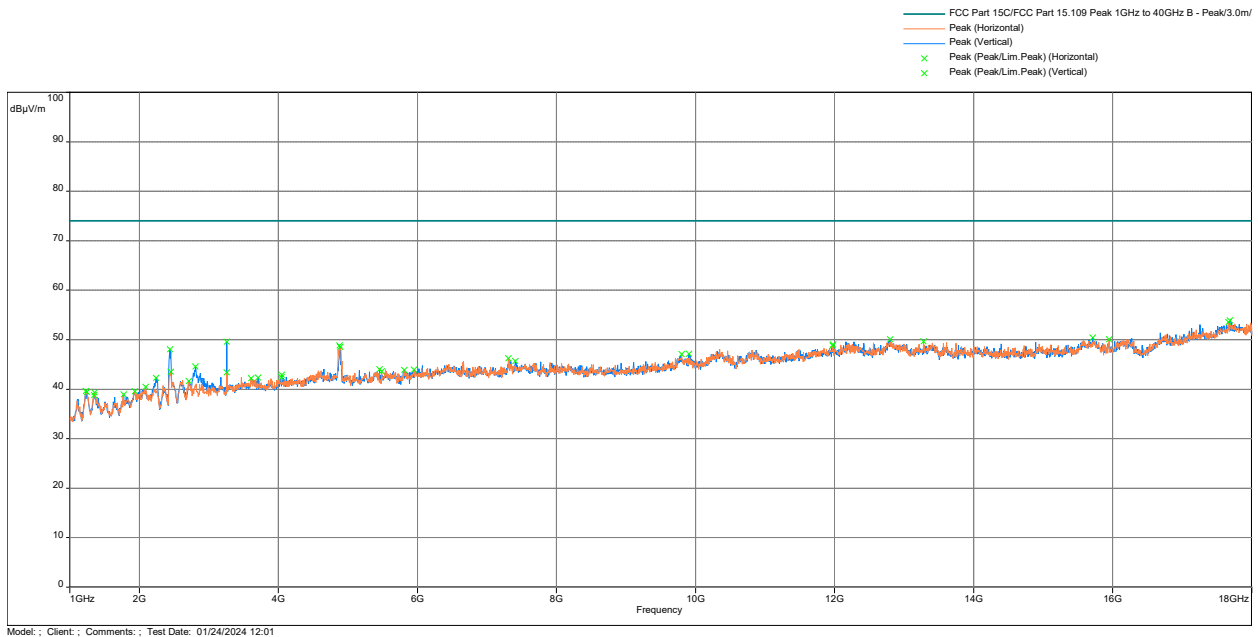
Results	Complies
----------------	-----------------

Test Results: 15.209 Radiated Spurious Emissions Mid Channel, Tx at 802.11n 40MHz, 2437MHz

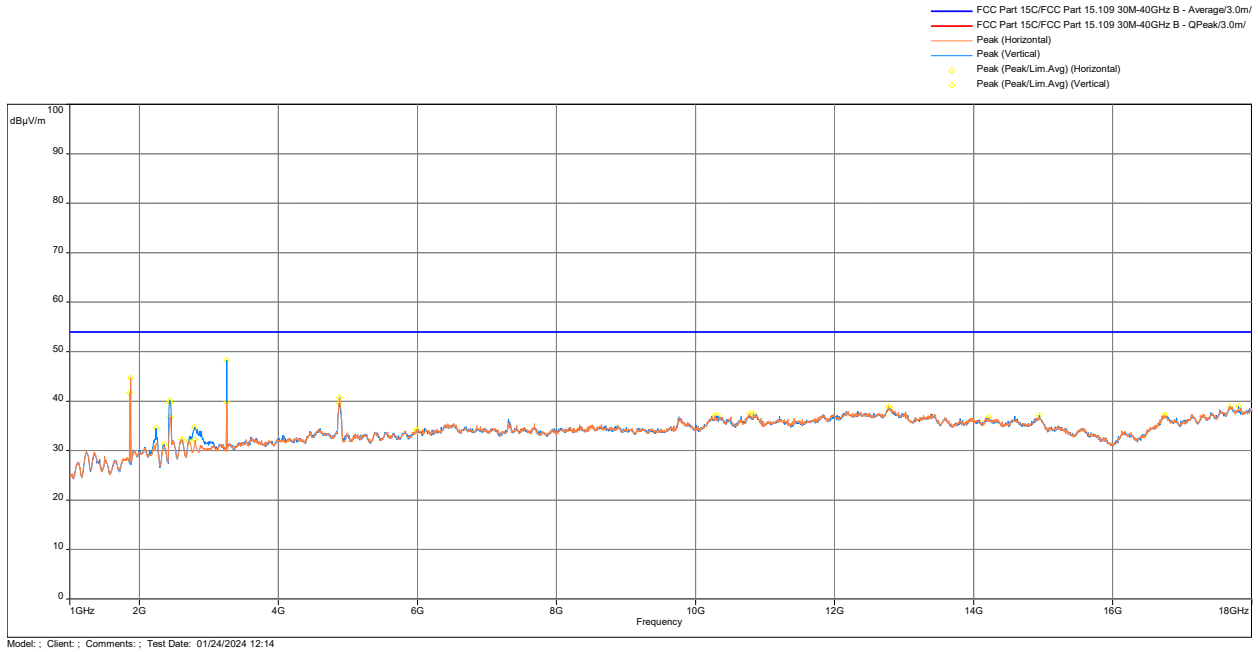
Out-of-Band Radiated Spurious Emissions - 30 MHz to 1000 MHz



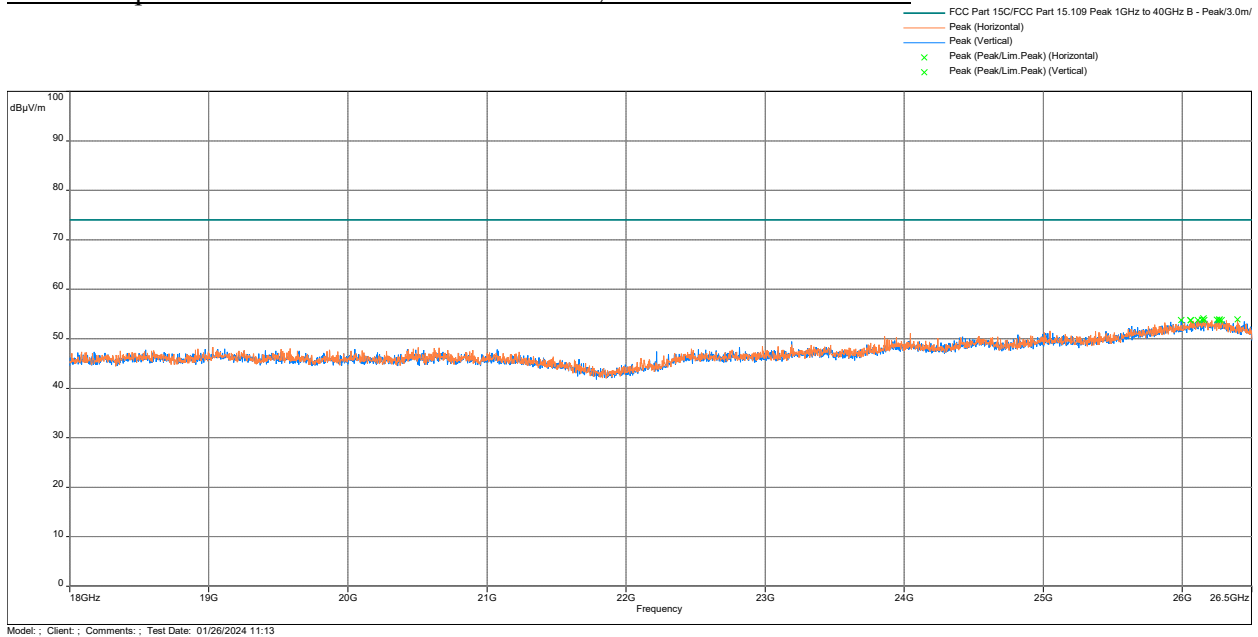
Radiated Spurious Emissions 1000 - 18000 MHz, Peak Scan vs Peak Limit



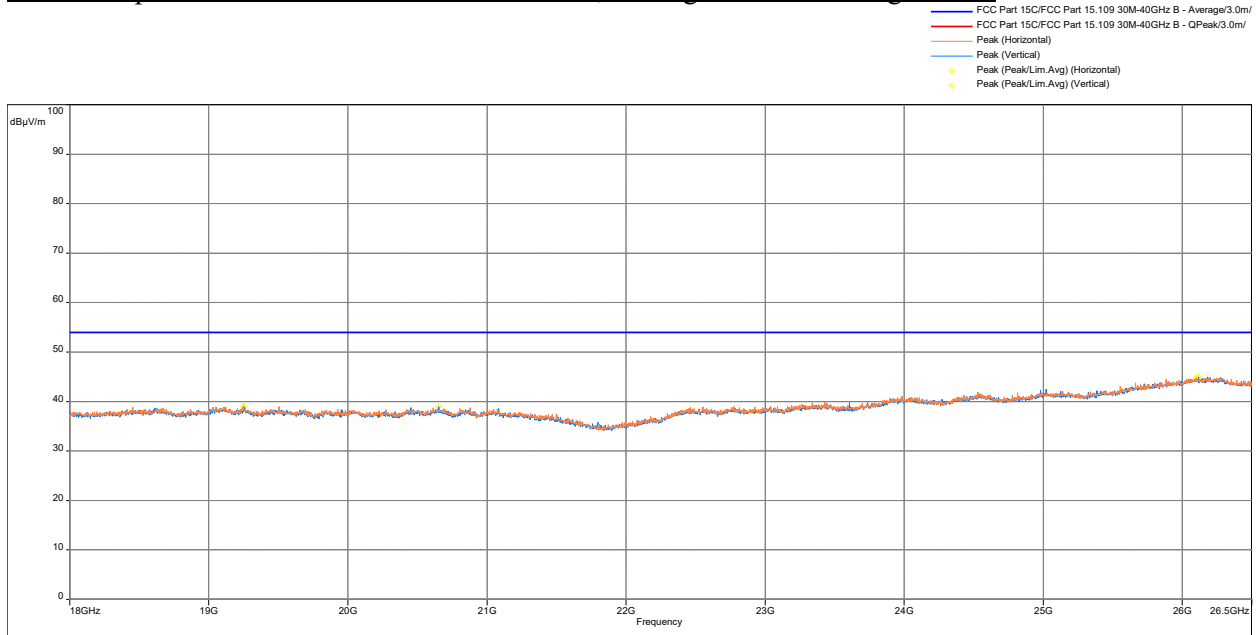
Radiated Spurious Emissions 1000 - 18000 MHz, Average Scan vs Average Limit



Radiated Spurious Emissions 18000 - 26000 MHz, Peak Scan vs Peak Limit.



Radiated Spurious Emissions 18000 - 26000 MHz, Average Scan vs Average Limit.



Note: Correction = AF + CF - Preamp

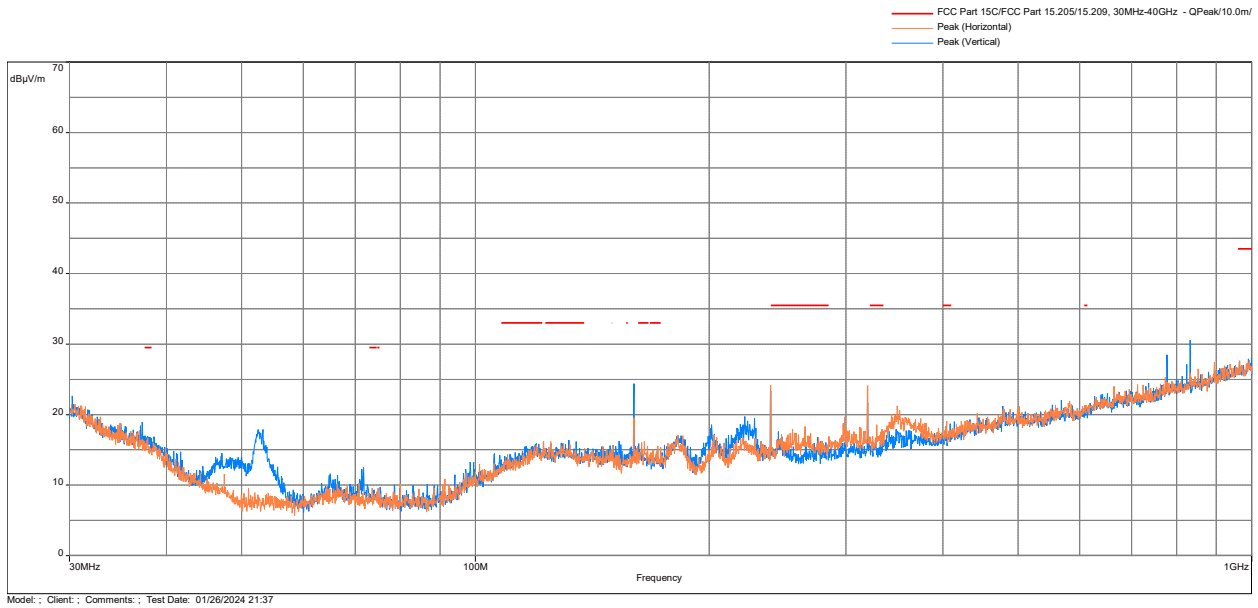
Frequency (MHz)	Avg FS@3m (dBµV/m)	Avg Limit@3m (dB(uV/m))	Margin (dB)	Height (m)	Azimuth (deg)	Polarity	Correction (dB)
3255.9	48.29	54	-5.71	1.51	124.75	Vertical	-8.76
1877.2	44.69	54	-9.31	2.51	104	Horizontal	-12.91
1863.033	41.71	54	-12.29	2.51	104	Horizontal	-13.05
4874.0	40.75	54	-13.25	2.51	210.75	Horizontal	-5.25
2439.333	40.12	54	-13.88	3.49	318.5	Vertical	-10.53
3255.9	39.83	54	-14.17	2.51	254.25	Horizontal	-8.76

Note: Correction = AF + CF - Preamp

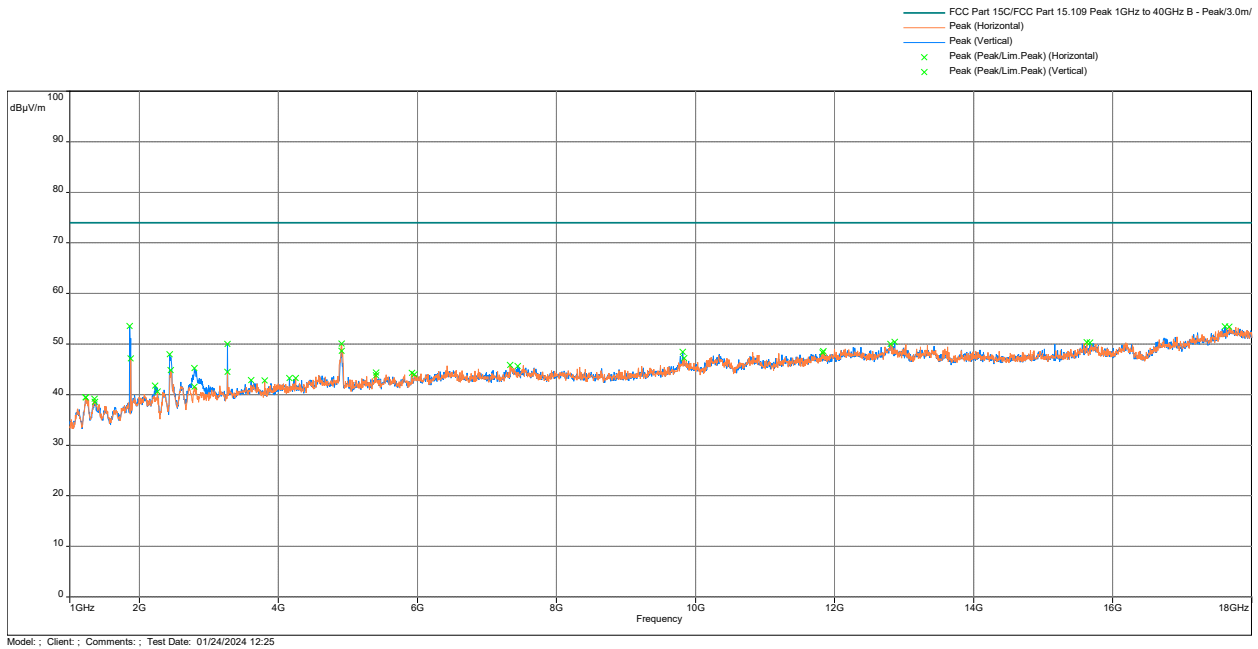
Results **Complies**

Test Results: 15.209 Radiated Spurious Emissions High Channel, Tx at 802.11n 40MHz, 2452MHz

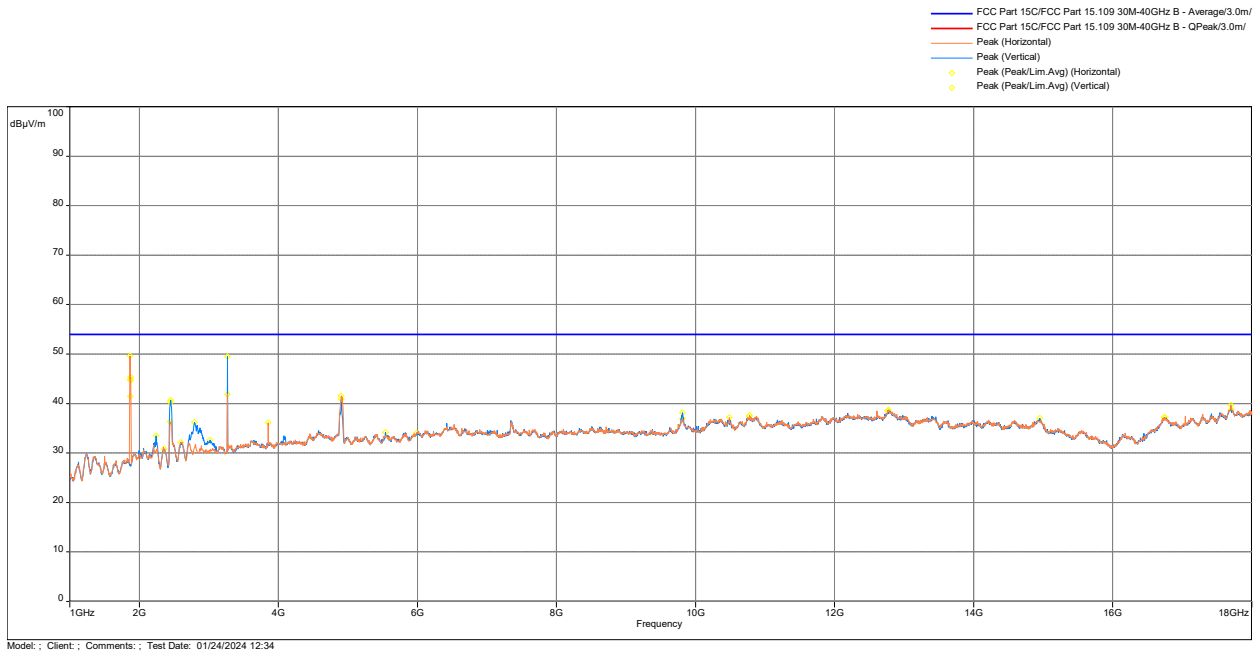
Out-of-Band Radiated Spurious Emissions - 30 MHz to 1000 MHz



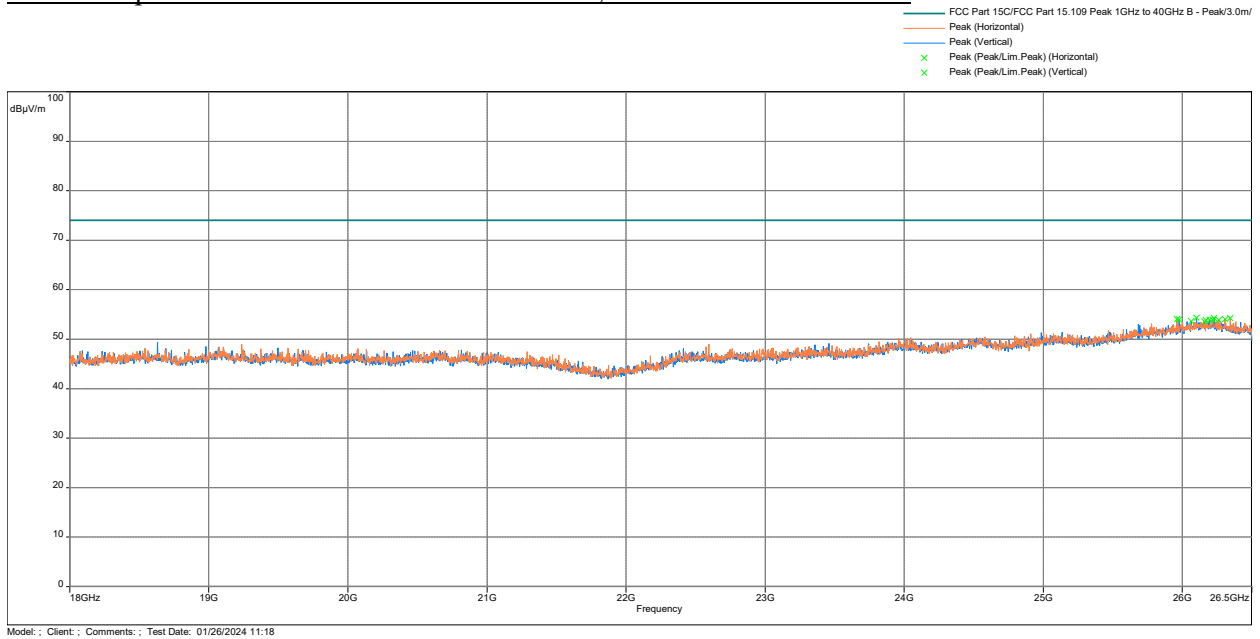
Radiated Spurious Emissions 1000 - 18000 MHz, Peak Scan vs Peak Limit



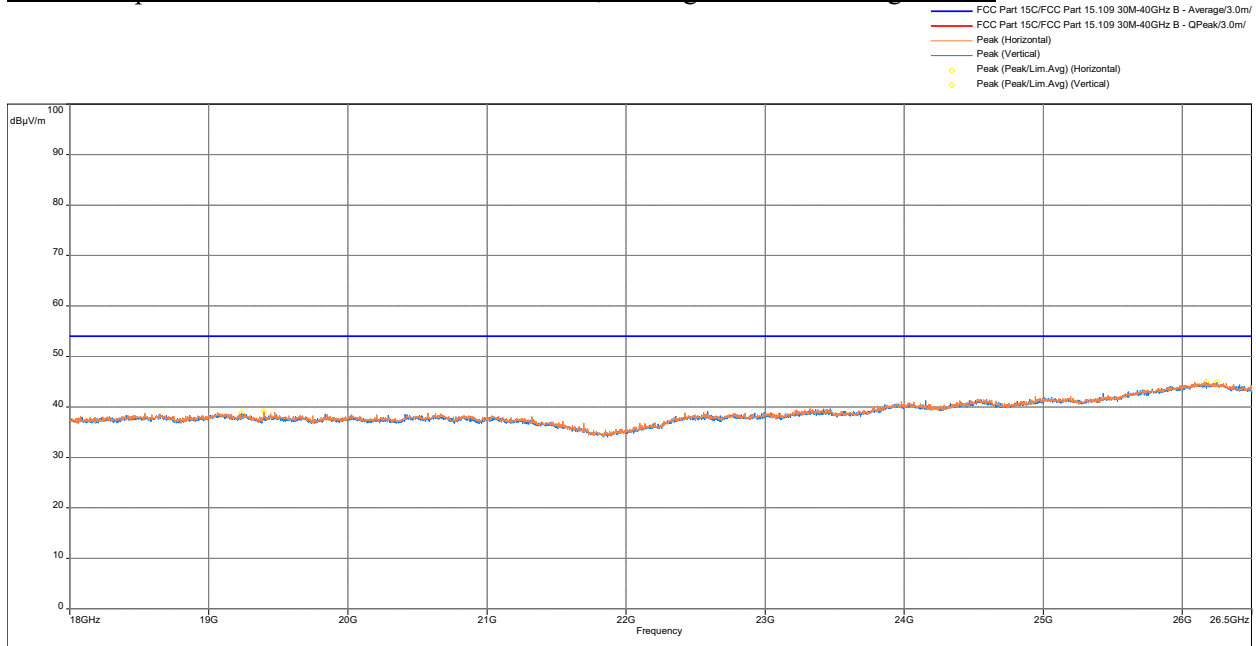
Radiated Spurious Emissions 1000 - 18000 MHz, Average Scan vs Average Limit



Radiated Spurious Emissions 18000 - 26000 MHz, Peak Scan vs Peak Limit.



Radiated Spurious Emissions 18000 - 26000 MHz, Average Scan vs Average Limit.



Model: ; Client: ; Comments: ; Test Date: 01/26/2024 11:20

Note: Correction = AF + CF - Preamp

Frequency (MHz)	Avg FS@3m (dBuV/m)	Avg Limit@3m (dB(uV/m))	Margin (dB)	Height (m)	Azimuth (deg)	Polarity	Correction (dB)
1865.3	49.65	54	-4.35	2.51	318.5	Horizontal	-13.03
3268.933	49.53	54	-4.47	1.51	125	Vertical	-8.72
1877.767	45.35	54	-8.65	3.49	168.5	Horizontal	-12.91
1870.4	44.89	54	-9.11	2.51	275	Horizontal	-12.98
1875.5	44.74	54	-9.26	2.51	318.5	Horizontal	-12.93
3268.933	41.83	54	-12.17	2.51	254	Horizontal	-8.72

Note: Correction = AF + CF - Preamp

Results	Complies
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4.5.5 Test Setup Photographs

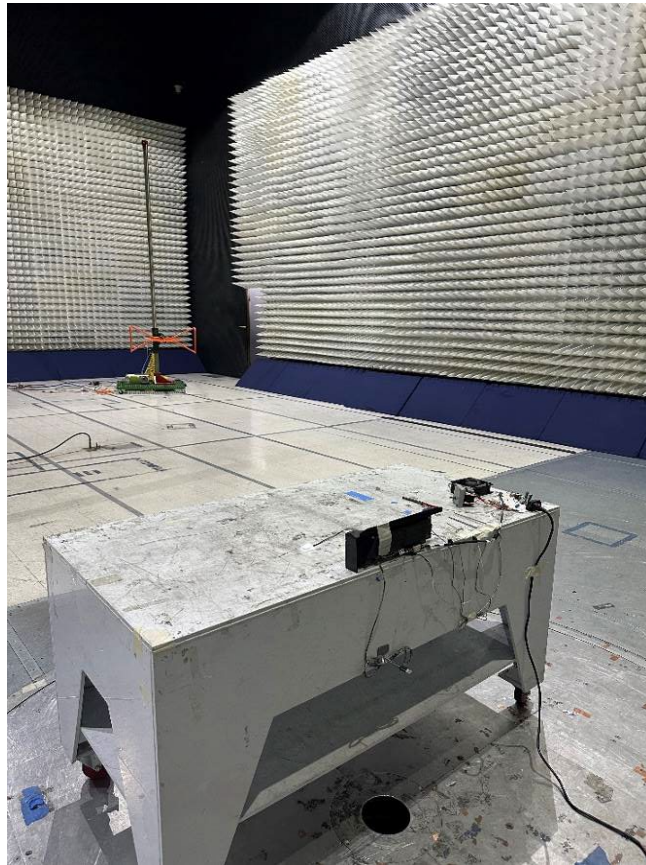
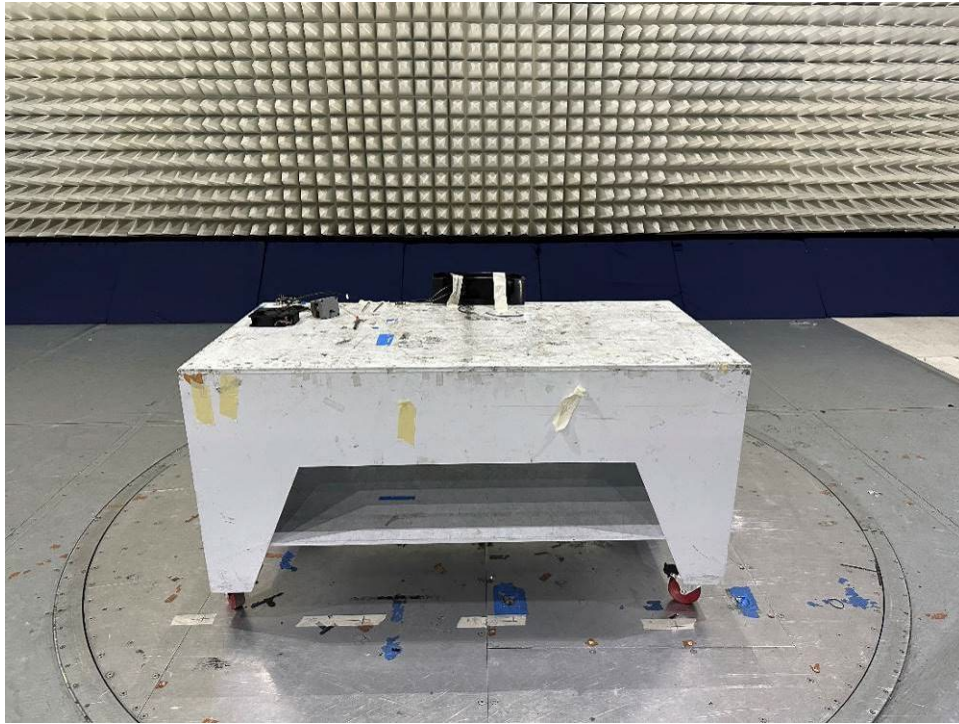
The following photographs show the testing configurations used.



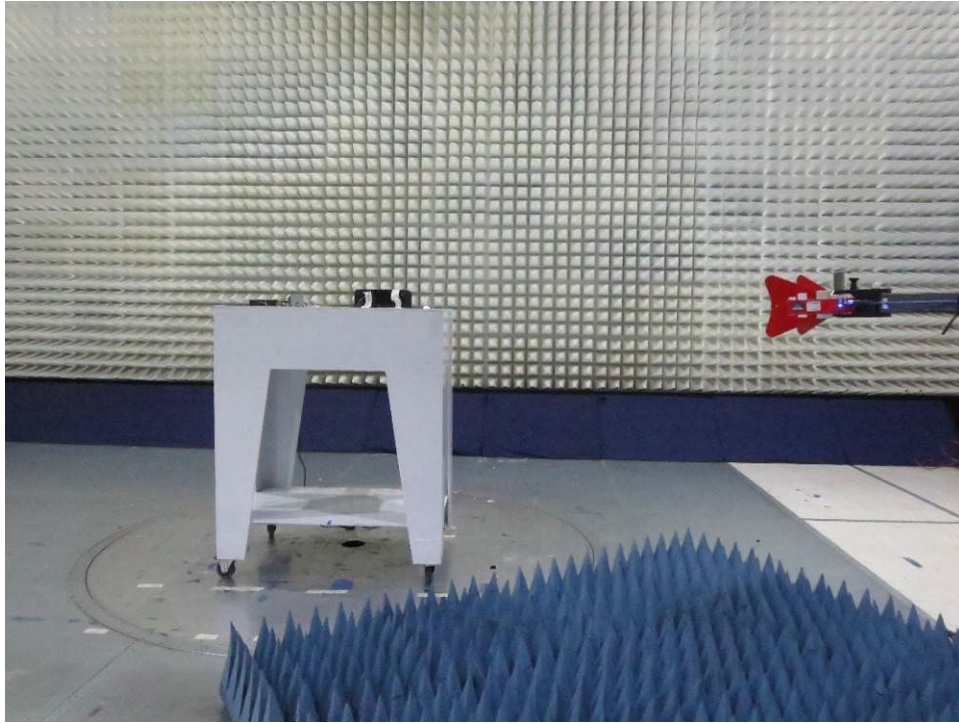
4.5.5 Test Setup Configuration (Continued)



4.5.5 Test Setup Configuration (Continued)



4.5.5 Test Setup Configuration (Continued)



4.6 AC Line Conducted Emission
FCC: 15.207; RSS-GEN

4.6.1 Requirement

Frequency Band MHz	FCC Part 15.207 Limits	
	Quasi-Peak	Average
0.15-0.50	66 to 56 *	56 to 46 *
0.50-5.00	56	46
5.00-30.00	60	50

*Note: *Decreases linearly with the logarithm of the frequency
At the transition frequency the lower limit applies.*

4.6.2 Procedure

Measurements are carried out using quasi-peak and average detector receivers in accordance with CISPR 16. An AMN is required to provide a defined impedance at high frequencies across the power feed at the point of measurement of terminal voltage and also to provide isolation of the circuit under test from the ambient noise on the power lines. An AMN as defined in CISPR 16 shall be used.

The EUT is located so that the distance between the boundary of the EUT and the closest surface of the AMN is 0.8m.

Where a flexible mains cord is provided by the manufacturer, this shall be 1m long or if in excess of 1m, the excess cable is folded back and forth as far as possible so as to form a bundle not exceeding 0.4m in length.

The EUT is arranged and connected with cables terminated in accordance with the product specification.

Conducted disturbance is measured between the phase lead and the reference ground, and between the neutral lead and the reference ground. Both measured values are reported.

The EUT, where intended for tabletop use, is placed on a table whose top is 0.8m above the ground plane. A vertical, metal reference plane is placed 0.4m from the EUT. The vertical metal reference-plane is at least 2m by 2m. The EUT shall be kept at least 0.8m from any other metal surface or other ground plane not being part of the EUT. The table is constructed of non-conductive materials. Its dimensions are 1m by 1.5m, but may be extended for larger EUT.

Floor standing EUT are placed on a horizontal metal ground plane and isolated from the ground plane by resting on an insulating material. The metal ground plane extends at least 0.5m beyond the boundaries of the EUT and has minimum dimensions of 2m by 2m.

Equipment setup for conducted disturbance tests followed the guidelines of ANSI C63.10: 2013.

Tested By	Test Date
Erica Chan	January 30, 2024

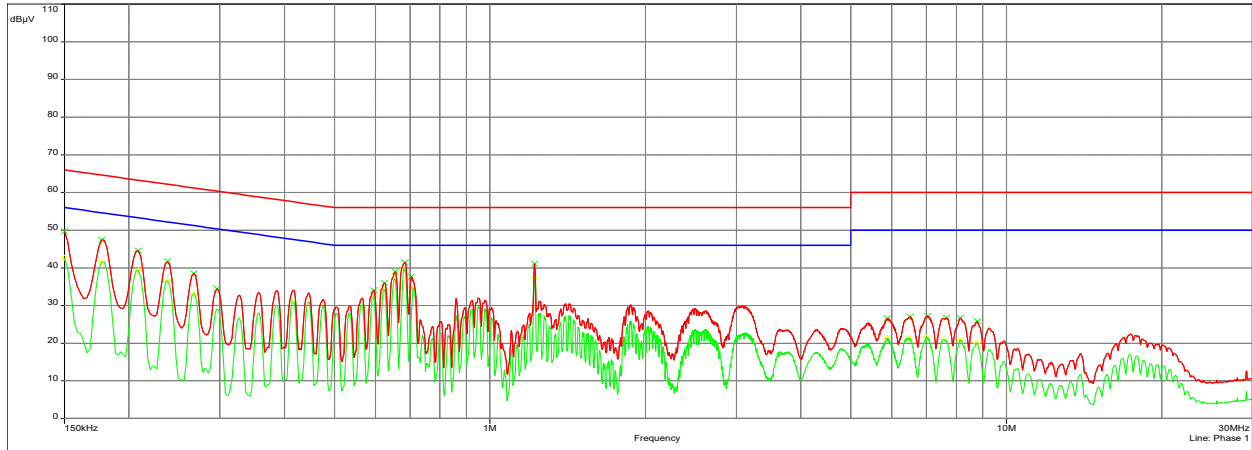
4.6.3 Test Results

15.207: Conducted Emissions 120VAC 60Hz

Phase 1

Sub-range 1
Frequencies: 150 kHz - 30 MHz (Mode: - Step: 2.25 kHz)
Settings: RBW: 9kHz, VBW: 30kHz, Sweep time: 2e+03 ms, Attenuation: 10 dB, Sweep count 10, Preamp: Off, LN Preamp: Off, Preselector: On
Line:Phase 1

- CISPR Limit/CISPR Limit B - Average/
- CISPR Limit/CISPR Limit B - QPeak/
- Q-Peak (Phase 1)
- CISPR AVG (Phase 1)
- × Q-Peak (Q-Peak/Lim.Q-Peak) (Phase 1)
- CISPR AVG (CISPR AVG/Lim.Avg) (Phase 1)

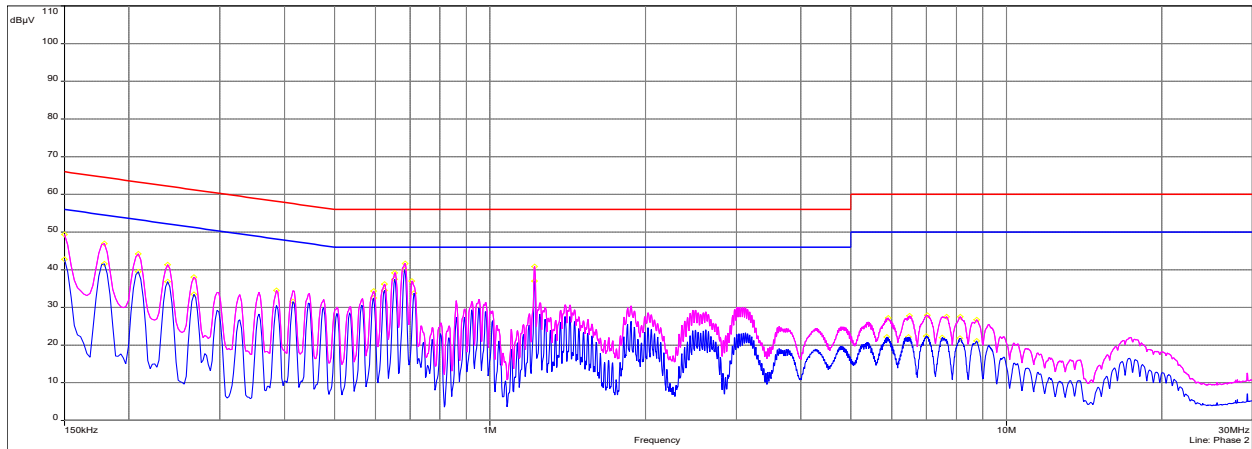


Model: ; Client: ; Comments: ; Test Date: 01/30/2024 07:22

Phase 2

Sub-range 2
Frequencies: 150 kHz - 30 MHz (Mode: - Step: 2.25 kHz)
Settings: RBW: 9kHz, VBW: 30kHz, Sweep time: 2e+03 ms, Attenuation: 10 dB, Sweep count 10, Preamp: Off, LN Preamp: Off, Preselector: On
Line:Phase 2

- CISPR Limit/CISPR Limit B - Average/
- CISPR Limit/CISPR Limit B - QPeak/
- Q-Peak (Phase 2)
- CISPR AVG (Phase 2)
- × Q-Peak (Q-Peak/Lim.Q-Peak) (Phase 2)
- CISPR AVG (CISPR AVG/Lim.Avg) (Phase 2)



Model: ; Client: ; Comments: ; Test Date: 01/30/2024 07:22

4.6.3 Test Results (Continued)

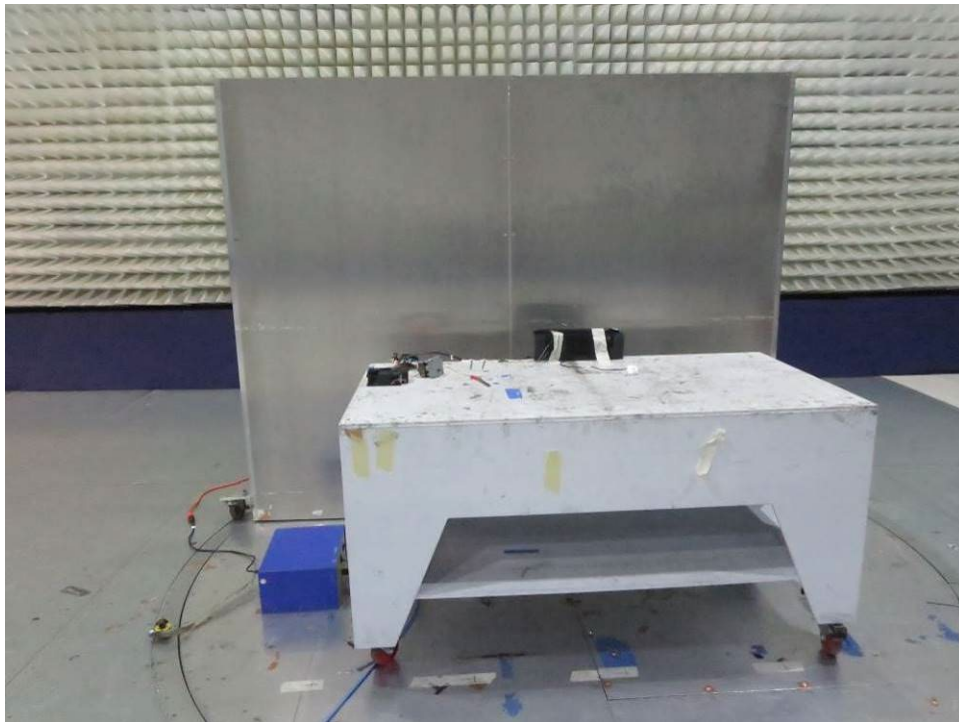
Frequency (MHz)	Q-Peak (dBµV)	Limit Q-Peak (dBµV)	Margin Q-Peak (dB)	Line	Correction (dB)
0.6855	41.64	56	-14.36	Phase 2	10.83
0.6855	41.4	56	-14.6	Phase 1	10.83
1.221	41.05	56	-14.95	Phase 1	10.83
1.221	40.85	56	-15.15	Phase 2	10.84
0.15	49.7	66	-16.3	Phase 1	11.27
0.15	49.34	66	-16.66	Phase 2	11.26

Frequency (MHz)	CISPR AVG (dBµV)	Limit Avg (dBµV)	Margin Avg (dB)	Line	Correction (dB)
0.68325	39.93	46	-6.07	Phase 2	10.83
0.681	39.6	46	-6.4	Phase 1	10.83
0.654	37.52	46	-8.48	Phase 2	10.83
1.221	37.28	46	-8.72	Phase 1	10.83
0.654	37.16	46	-8.84	Phase 1	10.83
1.221	37.02	46	-8.98	Phase 2	10.84

Results: Complies by 6.07 dB

4.6.4 Test Setup Photographs

The following photographs show the testing configurations used.



5.0 List of Test Equipment

Measurement equipment used for emission compliance testing utilized the equipment on the following list:

Equipment	Manufacturer	Model/Type	Asset #	Cal Int	Cal Due
EMI Test Receiver 40GHz	Rohde & Schwarz	ESU40	ITS 00961	12	03/14/2024
9kHz-1GHzPre-Amplifier	Sonoma Instruments	310N	ITS 00415	12	05/17/2024
30MHz-2GHz Bi-Log Antenna	SunAR RF Motion	JB1	ITS 01577	12	02/20/2024
1-18GHz Horn Antenna Red	ETS Lindgren	3117-PA	ITS 01636	12	03/19/2024
1-18GHz Small Horn Antenna with Preamp	ETS Lindgren	3117-PA	ITS 01365	12	05/20/2024
150kHz to 30MHz LISN	COM-POWER	LIN-115A	ITS 01607	12	07/31/2024
EMI Test Receiver	Rohde & Schwarz	ESR7	ITS 01607	12	10/18/2024
18-40GHz Preamp	uComp Nordic	MCNS-50-18004000335P	ITS 01799	12	03/15/2024
18 - 26.5GHz Horn Antenna	EMCO	3160-09	ITS 00571	#	#
Spectrum Analyzer 20hz-26.5ghz	Rohde & Schwarz	FSU	ITS 00913	12	06/16/2024

Calibration not required.

Software used for emission compliance testing utilized the following:

Name	Manufacturer	Version	Template/Profile
BAT-EMC	Nexio	3.20.0.14	ESU and ESR Intertek Emissions Template
Tile	Quantum Change	3.4.K.22	Conducted Spurious 30M-26GHz
RS Commander	Rohde Schwarz	1.6.4	Not Applicable (Screen grabber)

6.0 Document History

Revision/ Job Number	Writer Initials	Reviewers Initials	Date	Change
1.0 / G105683076	GGR	ML	March 29, 2024	Original document
1.1 / G105683076	EC	ML	May 16, 2024	Section 3.3 and 3.5: Added statement that EUT has duty cycle >98% Section 4.4.3: Added statements regarding band edge margins

END OF REPORT