

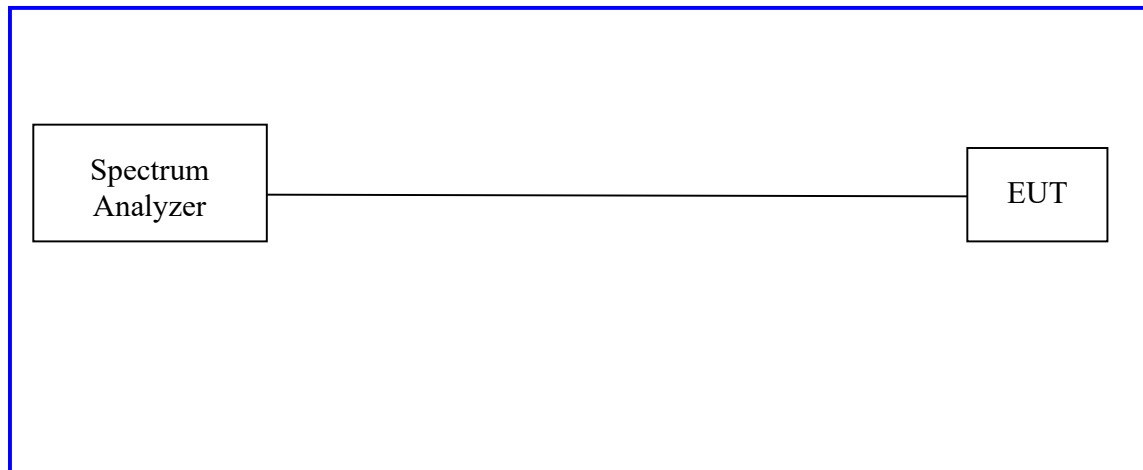
4.3 Power Spectral Density

According to CFR47 Part 15.247 (e), the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

4.3.1 Test Method

The conducted method was used to measure the channel power output per ANSI C63.10-2013 Section 11.10.2. The measurement was performed with modulation per *CFR47 Part 15.247 (e)*. A pre-evaluation was performed to find the worst case chains (Section 3.5.1) and modes (Section 3.5.2). The worst findings were conducted on 3 channels in each operating frequency range of 2400 MHz to 2483.5 MHz. Total PSD was computed by summing both chains and applying a duty cycle correction factor if necessary.

Test Setup:



Method PKPSD of “KDB 558074 – DTS Measurement Guidance v05r02” was used.

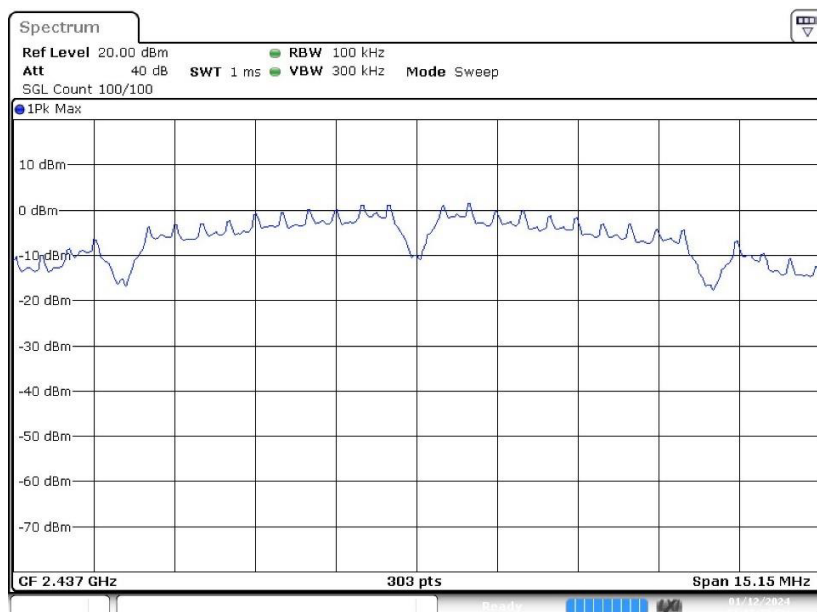
4.3.2 Results

As originally tested, the EUT was found to be compliant to the requirements of the test standard(s).

Table 4: Peak Power Spectral Density – Test Results

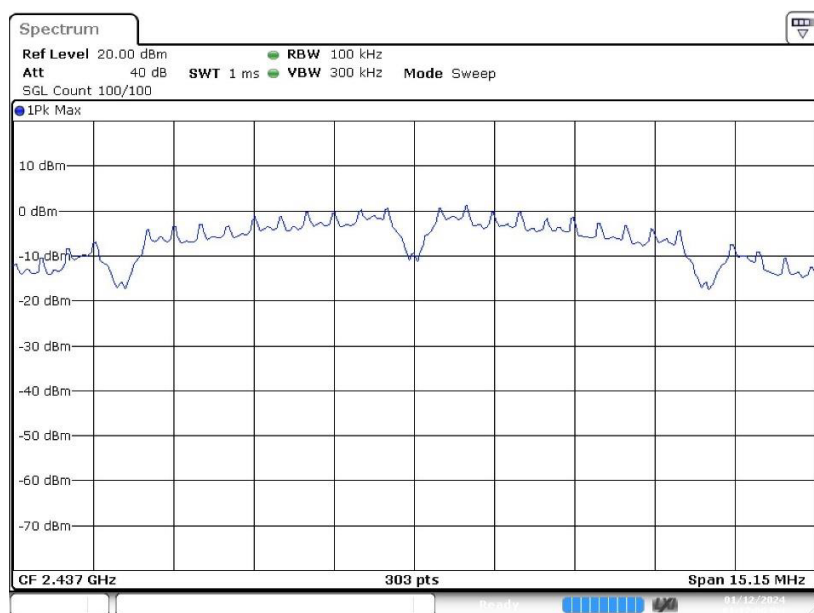
Table 1: Total Power = 10*Log10 (10a/10 + 10b/10)							
Date: November 27th, 2023 to February 9th, 2024				Tested By: Osvaldo Casorla			
Test Method: Conducted Measurements				Power Setting: See test plan.			
Antenna Type: Omni				Max Antenna Gain: 3 dBi			
Operating Mode: Uncorrelated				Signal State: See Section 3.5.1			
Ambient Temp.: 22 - 23 °C				Relative Humidity: 35 - 38%			
Freq Band	Bandwidth (MHz)	Mode	Frequency (MHz)	PSD (dBm/3kHz)		PSD Limit	Margin
				Port 1	Port 2	(dBm/3kHz)	(dB)
2400-2483.5MHz	20	802.11b	2412	3.70	3.20	8.00	4.30
			2437	4.80	3.50	8.00	3.20
			2462	3.10	2.80	8.00	4.90
2400-2483.5MHz	20	802.11g	2412	-4.00	-5.00	8.00	12.00
			2437	-5.70	-4.90	8.00	12.90
			2462	-6.20	-6.30	8.00	14.20
Freq Band	Bandwidth (MHz)	Mode	Frequency (MHz)	Total PSD (dBm/3kHz)		PSD Limit (dBm/3kHz)	Margin (dB)
2400-2483.5MHz	20	802.11n	2412	-3.36		8.00	11.36
			2437	-1.32		8.00	9.32
			2462	-1.93		8.00	9.93
		802.11ax	2412	2.41		8.00	5.59
			2437	-3.28		8.00	11.28
			2462	-4.52		8.00	12.52
		802.11ac	2412	-1.72		8.00	9.72
			2437	-3.66		8.00	11.66
			2462	-4.11		8.00	12.11
2400-2483.5MHz	40	802.11n	2422	-2.69		8.00	10.69
			2437	-2.42		8.00	10.42
			2462	-2.87		8.00	10.87
		802.11ax	2422	-7.43		8.00	15.43
			2437	-7.39		8.00	15.39
			2462	-6.74		8.00	14.74
		802.11ac	2422	-3.65		8.00	11.65
			2437	-4.16		8.00	12.16
			2462	-3.74		8.00	11.74
Note: 1. Plots for all the measurements stated above were taken. To reduce complexity and bulkiness of the Report, portion of plots are placed in the report. Note 2. Total Power = 10*Log10 (10a/10 + 10b/10)							

Date: November 27th, 2023 to February 9th, 2024				Tested By: Osvaldo Casorla			
Test Method: Conducted Measurements				Power Setting: See test plan.			
Antenna Type: Omni				Max Antenna Gain: 6 dBi			
Operating Mode: Beamforming				Signal State: See Section 3.5.1			
Ambient Temp.: 22 - 23 °C				Relative Humidity: 35 - 38%			
Freq Band	Bandwidth (MHz)	Mode	Frequency (MHz)	PSD (dBm/3kHz)		PSD Limit	Margin
				Port 1	Port 2	(dBm/3kHz)	(dB)
2400-2483.5MHz	20	802.11g	2412	-5.10	-5.20	8.00	13.10
			2437	-5.40	-4.20	8.00	12.20
			2462	-5.10	-6.60	8.00	13.10
Freq Band	Bandwidth (MHz)	Mode	Frequency (MHz)	Total PSD		PSD Limit	Margin
				(dBm/3kHz)		(dBm/3kHz)	(dB)
2400-2483.5MHz	20	802.11n	2412	-3.77		8.00	11.77
			2437	-2.37		8.00	10.37
			2462	-3.29		8.00	11.29
		802.11ax	2412	-6.22		8.00	14.22
			2437	-4.97		8.00	12.97
			2462	-6.95		8.00	14.95
		802.11ac	2412	-5.73		8.00	13.73
			2437	-4.06		8.00	12.06
			2462	-5.05		8.00	13.05
2400-2483.5MHz	40	802.11n	2422	-5.71		8.00	13.71
			2437	-5.60		8.00	13.60
			2462	-5.99		8.00	13.99
		802.11ax	2422	-7.65		8.00	15.65
			2437	-7.79		8.00	15.79
			2462	-7.41		8.00	15.41
		802.11ac	2422	-7.42		8.00	15.42
			2437	-7.52		8.00	15.52
			2462	-7.28		8.00	15.28
Note: 1. Plots for all the measurements stated above were taken. To reduce complexity and bulkiness of the Report, portion of plots are placed in the report. Note 2. Total Power = 10*Log10 (10a/10 + 10b/10)							



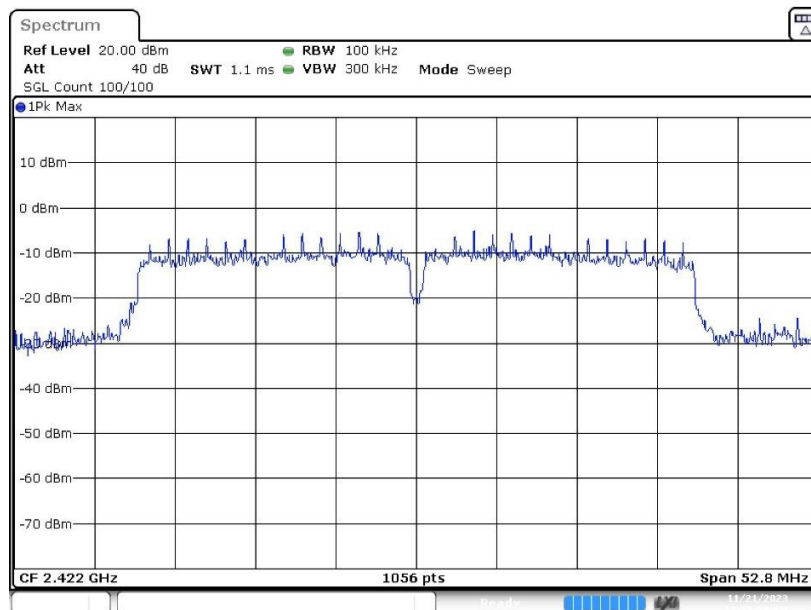
Note: Correction Factor applied in table 4.

Plot 11. 802.11b CCK, 2437MHz PSD, port 1



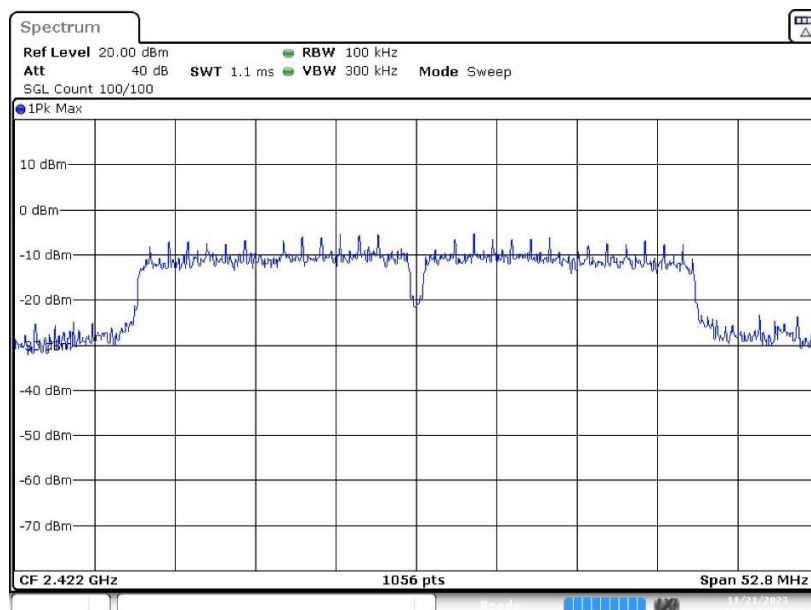
Note: Correction Factor applied in table 4.

Plot 11. 802.11b CCK, 2437MHz PSD, port 2



Note: Correction Factor applied in table 4.

Plot 29. 802.11n HT40, 2422MHz PSD, port 1



Note: Correction Factor applied in table 4.

Plot 29. 802.11n HT40, 2422MHz PSD, port 2

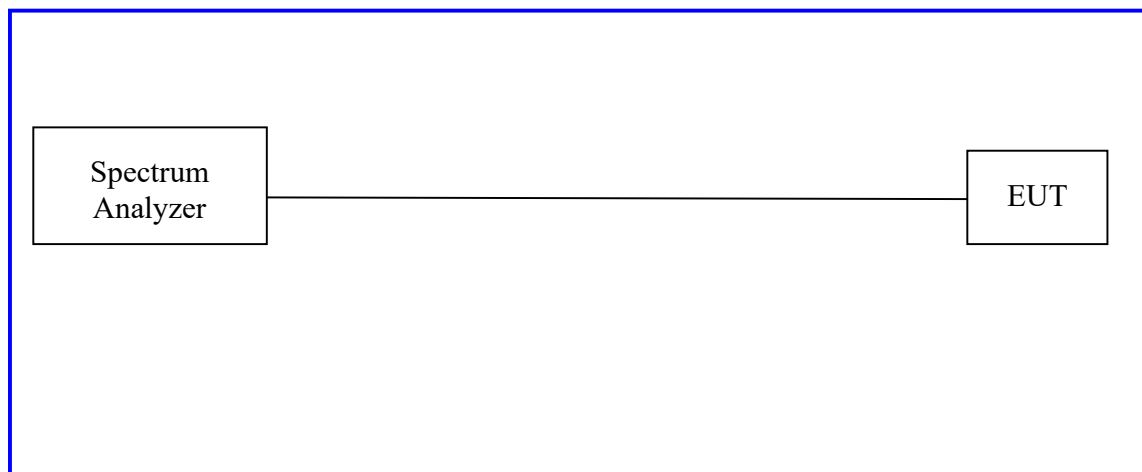
4.4 Out of Band Emissions: Non-Restricted Bands

Transmitter spurious emissions are emissions outside the frequency range of the equipment when the equipment is in transmitting mode; per requirement of CFR47 15.205, 15.209, 15.247(d).

4.4.1 Test Method

Conducted measurements per ANSI C63.10-2013 Sections 6.10, 11.11, 14.3.3 were used to measure the undesirable emission requirement in non-restricted bands. The measurement was performed with modulation. The measurement was conducted from 30MHz to 26.5GHz on 3 channels in each mode on the EUT. Band edge tests were conducted on the low and high channel of each mode. The worst case measurement of each mode and chain is recorded in this report.

Test Setup:



4.4.2 Results

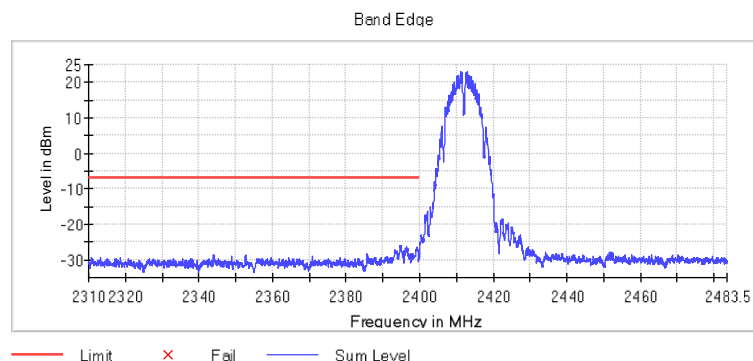
As originally tested, the EUT was found to be compliant to the requirements of the test standard(s). In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.



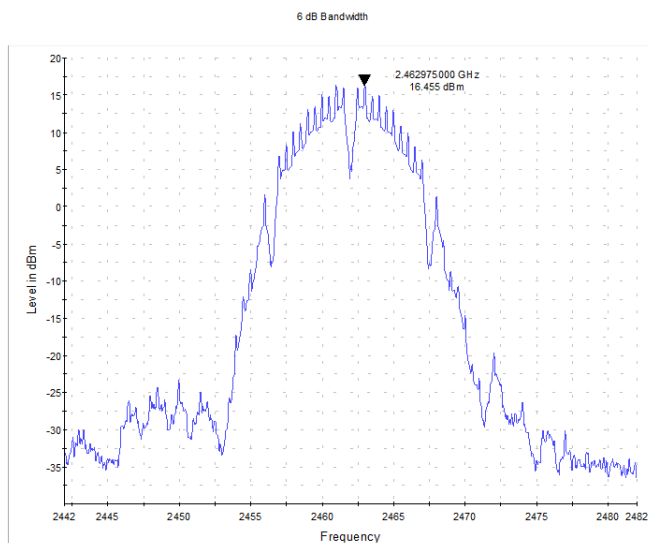
RBW=100 kHz VBW=300 kHz Max Hold Detector Peak

Note: Reference Level Measurement

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
2,399.98	-25.80	21.66	-4.14	PASS
2,394.98	-26.00	21.86	-4.14	PASS
2,395.03	-26.10	21.96	-4.14	PASS
2,394.68	-26.10	21.96	-4.14	PASS
2,394.73	-26.30	22.16	-4.14	PASS
2,399.13	-26.40	22.26	-4.14	PASS
2,396.38	-26.50	22.36	-4.14	PASS
2,394.63	-26.60	22.46	-4.14	PASS
2,396.18	-26.70	22.56	-4.14	PASS
2,394.83	-26.70	22.56	-4.14	PASS
2,396.13	-26.70	22.56	-4.14	PASS
2,396.33	-26.80	22.66	-4.14	PASS
2,399.18	-26.80	22.66	-4.14	PASS
2,394.78	-26.80	22.66	-4.14	PASS
2,396.63	-26.90	22.76	-4.14	PASS



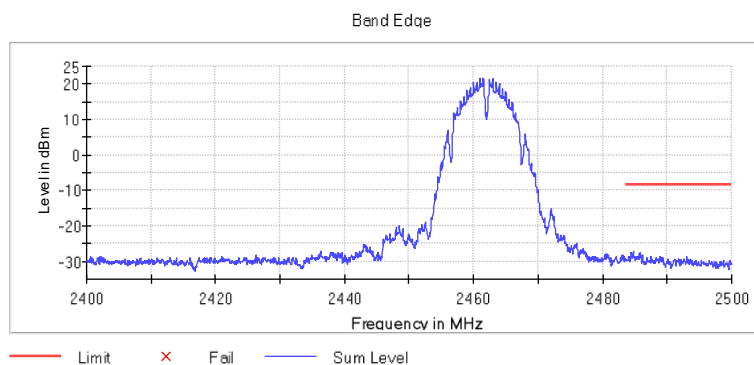
Plot 35. 802.11b CCK, 2412MHz Lower Band Edge



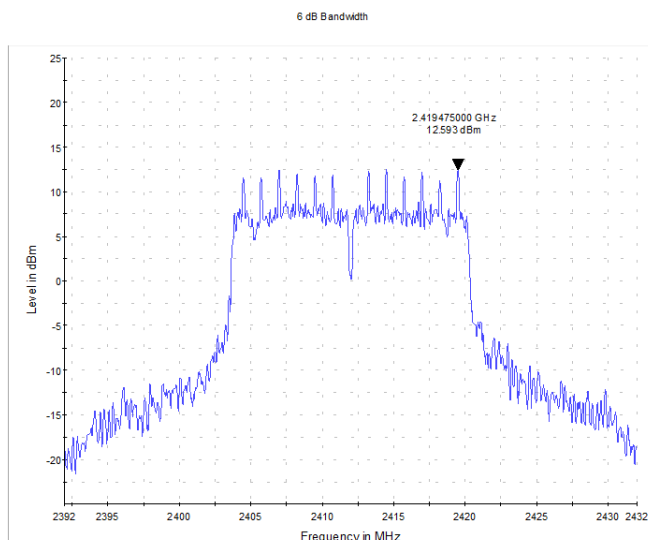
RBW=100 kHz VBW=300 kHz Max Hold Detector Peak

Note: Reference Level Measurement

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
2,399.98	-25.80	22.26	-3.55	PASS
2,394.98	-26.00	22.46	-3.55	PASS
2,395.03	-26.10	22.56	-3.55	PASS
2,394.68	-26.10	22.56	-3.55	PASS
2,394.73	-26.30	22.76	-3.55	PASS
2,399.13	-26.40	22.86	-3.55	PASS
2,396.38	-26.50	22.96	-3.55	PASS
2,394.63	-26.60	23.06	-3.55	PASS
2,396.18	-26.70	23.16	-3.55	PASS
2,394.83	-26.70	23.16	-3.55	PASS
2,396.13	-26.70	23.16	-3.55	PASS
2,396.33	-26.80	23.26	-3.55	PASS
2,399.18	-26.80	23.26	-3.55	PASS
2,394.78	-26.80	23.26	-3.55	PASS
2,396.63	-26.90	23.36	-3.55	PASS



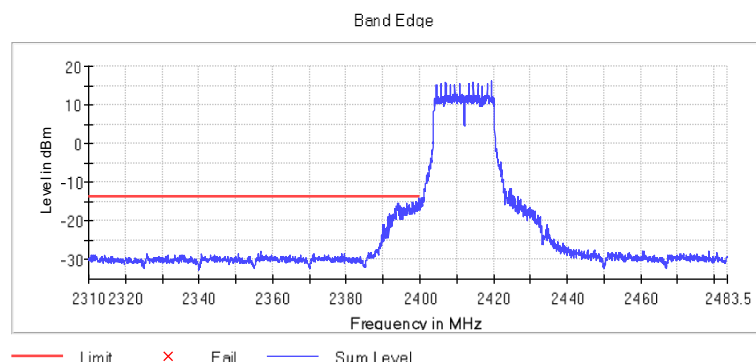
Plot 44. 802.11b CCK, 2462MHz Upper Band Edge



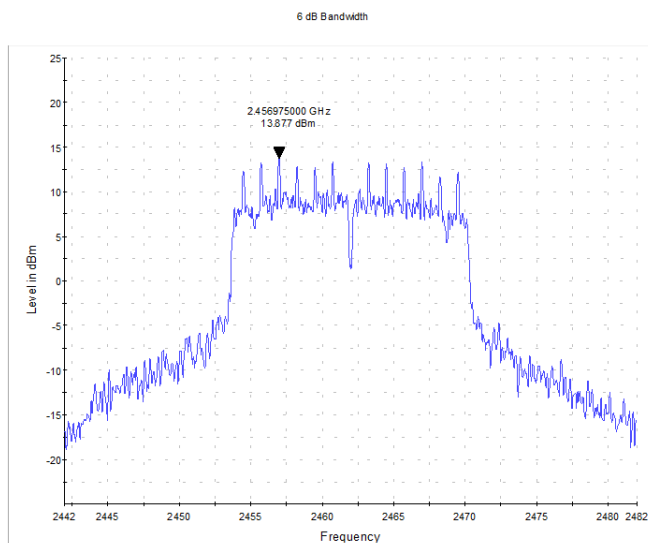
RBW=100 kHz VBW=300 kHz Max Hold Detector Peak

Note: Reference Level Measurement

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
2,399.98	-25.80	18.39	-7.41	PASS
2,394.98	-26.00	18.59	-7.41	PASS
2,395.03	-26.10	18.69	-7.41	PASS
2,394.68	-26.10	18.69	-7.41	PASS
2,394.73	-26.30	18.89	-7.41	PASS
2,399.13	-26.40	18.99	-7.41	PASS
2,396.38	-26.50	19.09	-7.41	PASS
2,394.63	-26.60	19.19	-7.41	PASS
2,396.18	-26.70	19.29	-7.41	PASS
2,394.83	-26.70	19.29	-7.41	PASS
2,396.13	-26.70	19.29	-7.41	PASS
2,396.33	-26.80	19.39	-7.41	PASS
2,399.18	-26.80	19.39	-7.41	PASS
2,394.78	-26.80	19.39	-7.41	PASS
2,396.63	-26.90	19.49	-7.41	PASS



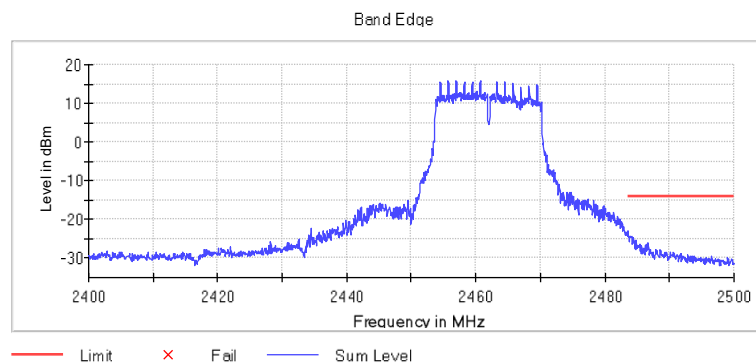
Plot 37. 802.11g No HT, 2412MHz Lower Band Edge



RBW=100 kHz VBW=300 kHz Max Hold Detector Peak

Note: Reference Level Measurement

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
2,399.98	-25.80	19.68	-6.12	PASS
2,394.98	-26.00	19.88	-6.12	PASS
2,395.03	-26.10	19.98	-6.12	PASS
2,394.68	-26.10	19.98	-6.12	PASS
2,394.73	-26.30	20.18	-6.12	PASS
2,399.13	-26.40	20.28	-6.12	PASS
2,396.38	-26.50	20.38	-6.12	PASS
2,394.63	-26.60	20.48	-6.12	PASS
2,396.18	-26.70	20.58	-6.12	PASS
2,394.83	-26.70	20.58	-6.12	PASS
2,396.13	-26.70	20.58	-6.12	PASS
2,396.33	-26.80	20.68	-6.12	PASS
2,399.18	-26.80	20.68	-6.12	PASS
2,394.78	-26.80	20.68	-6.12	PASS
2,396.63	-26.90	20.78	-6.12	PASS



Plot 45. 802.11g No HT, 2462MHz Upper Band Edge

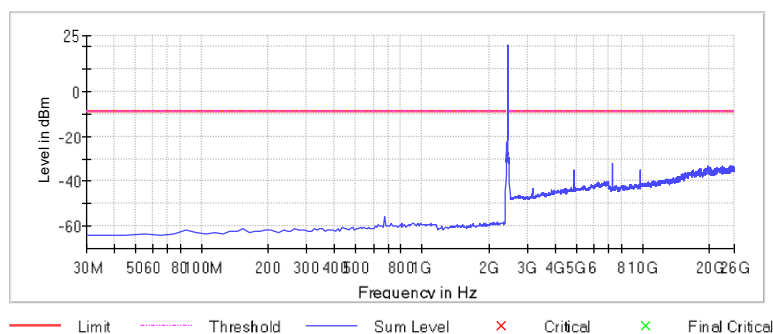


RBW=100 kHz VBW=300 kHz Max Hold Detector Peak

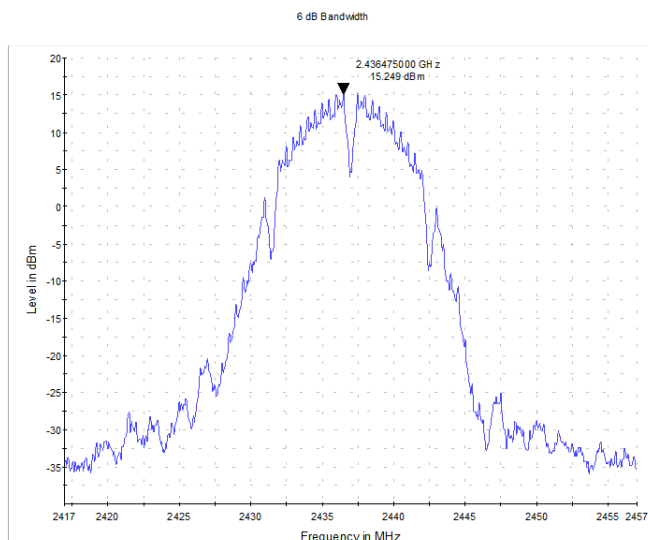
Note: Reference Level Measurement

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
2,399.98	-25.80	21.66	-4.14	PASS
2,394.98	-26.00	21.86	-4.14	PASS
2,395.03	-26.10	21.96	-4.14	PASS
2,394.68	-26.10	21.96	-4.14	PASS
2,394.73	-26.30	22.16	-4.14	PASS
2,399.13	-26.40	22.26	-4.14	PASS
2,396.38	-26.50	22.36	-4.14	PASS
2,394.63	-26.60	22.46	-4.14	PASS
2,396.18	-26.70	22.56	-4.14	PASS
2,394.83	-26.70	22.56	-4.14	PASS
2,396.13	-26.70	22.56	-4.14	PASS
2,396.33	-26.80	22.66	-4.14	PASS
2,399.18	-26.80	22.66	-4.14	PASS
2,394.78	-26.80	22.66	-4.14	PASS
2,396.63	-26.90	22.76	-4.14	PASS

Spurious



Plot 51. 802.11b CCK, 2412MHz, 30MHz-26.5GHz Non-restricted Out of Band

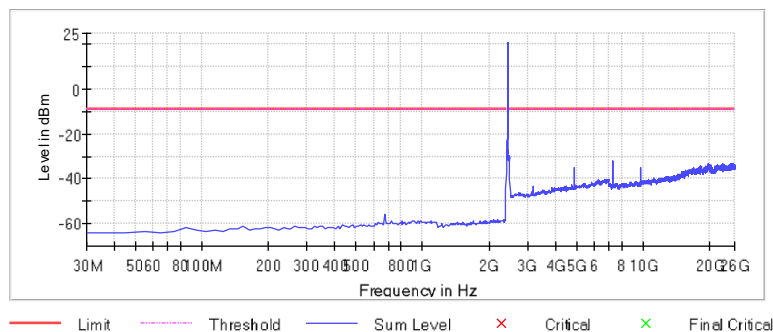


RBW=100 kHz VBW=300 kHz Max Hold Detector Peak

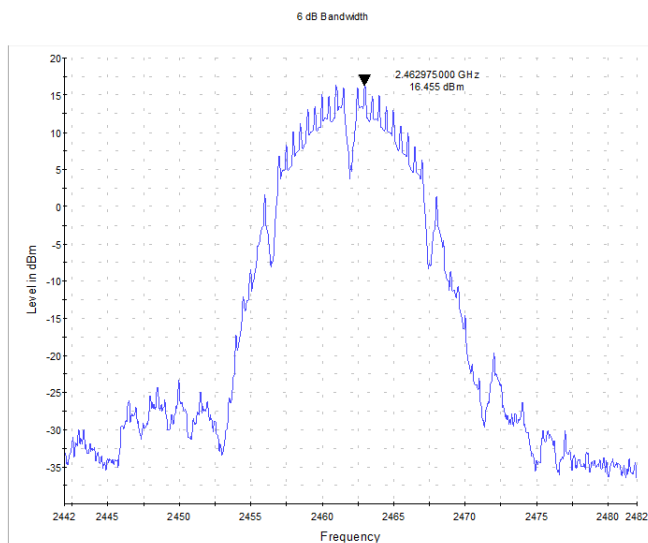
Note: Reference Level Measurement

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
2,399.98	-25.80	21.05	-4.75	PASS
2,394.98	-26.00	21.25	-4.75	PASS
2,395.03	-26.10	21.35	-4.75	PASS
2,394.68	-26.10	21.35	-4.75	PASS
2,394.73	-26.30	21.55	-4.75	PASS
2,399.13	-26.40	21.65	-4.75	PASS
2,396.38	-26.50	21.75	-4.75	PASS
2,394.63	-26.60	21.85	-4.75	PASS
2,396.18	-26.70	21.95	-4.75	PASS
2,394.83	-26.70	21.95	-4.75	PASS
2,396.13	-26.70	21.95	-4.75	PASS
2,396.33	-26.80	22.05	-4.75	PASS
2,399.18	-26.80	22.05	-4.75	PASS
2,394.78	-26.80	22.05	-4.75	PASS
2,396.63	-26.90	22.15	-4.75	PASS

Spurious



Plot 54. 802.11b CCK, 2437MHz, 30MHz-26.5GHz Non-restricted Out of Band

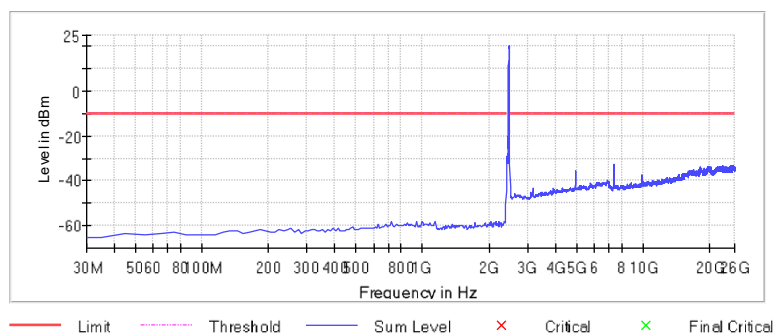


RBW=100 kHz VBW=300 kHz Max Hold Detector Peak

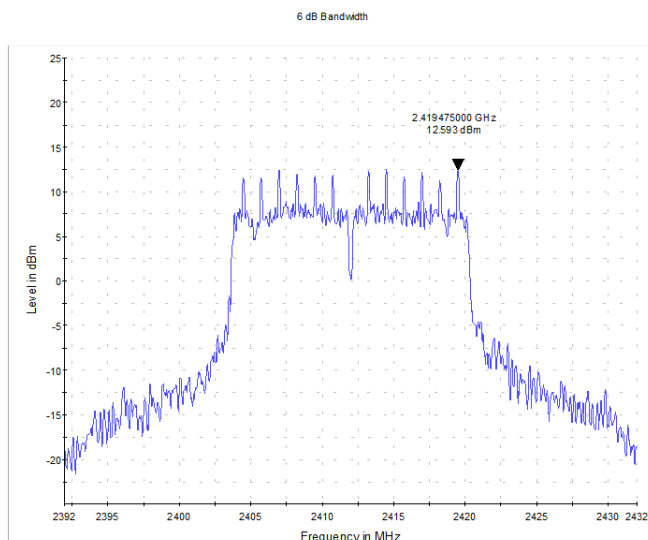
Note: Reference Level Measurement

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
2,399.98	-25.80	22.26	-3.55	PASS
2,394.98	-26.00	22.46	-3.55	PASS
2,395.03	-26.10	22.56	-3.55	PASS
2,394.68	-26.10	22.56	-3.55	PASS
2,394.73	-26.30	22.76	-3.55	PASS
2,399.13	-26.40	22.86	-3.55	PASS
2,396.38	-26.50	22.96	-3.55	PASS
2,394.63	-26.60	23.06	-3.55	PASS
2,396.18	-26.70	23.16	-3.55	PASS
2,394.83	-26.70	23.16	-3.55	PASS
2,396.13	-26.70	23.16	-3.55	PASS
2,396.33	-26.80	23.26	-3.55	PASS
2,399.18	-26.80	23.26	-3.55	PASS
2,394.78	-26.80	23.26	-3.55	PASS
2,396.63	-26.90	23.36	-3.55	PASS

Spurious



Plot 55. 802.11b CCK, 2462MHz, 30MHz-26.5GHz Non-restricted Out of Band

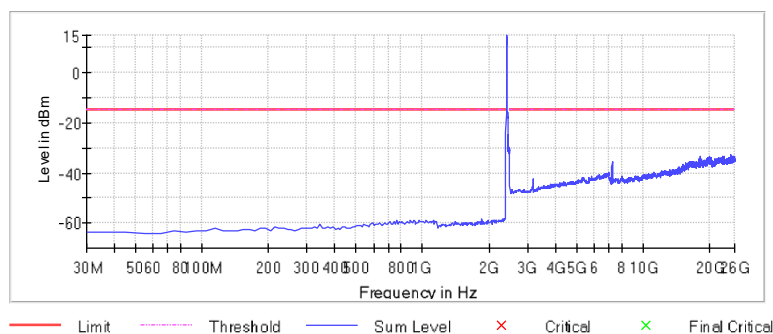


RBW=100 kHz VBW=300 kHz Max Hold Detector Peak

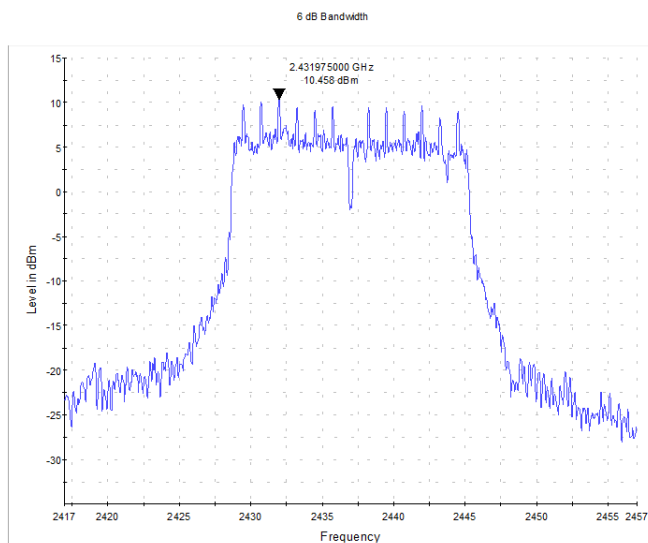
Note: Reference Level Measurement

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
2,399.98	-25.80	18.39	-7.41	PASS
2,394.98	-26.00	18.59	-7.41	PASS
2,395.03	-26.10	18.69	-7.41	PASS
2,394.68	-26.10	18.69	-7.41	PASS
2,394.73	-26.30	18.89	-7.41	PASS
2,399.13	-26.40	18.99	-7.41	PASS
2,396.38	-26.50	19.09	-7.41	PASS
2,394.63	-26.60	19.19	-7.41	PASS
2,396.18	-26.70	19.29	-7.41	PASS
2,394.83	-26.70	19.29	-7.41	PASS
2,396.13	-26.70	19.29	-7.41	PASS
2,396.33	-26.80	19.39	-7.41	PASS
2,399.18	-26.80	19.39	-7.41	PASS
2,394.78	-26.80	19.39	-7.41	PASS
2,396.63	-26.90	19.49	-7.41	PASS

Spurious



Plot 57. 802.11g No HT, 2412MHz, 30MHz-26.5GHz Non-restricted Out of Band

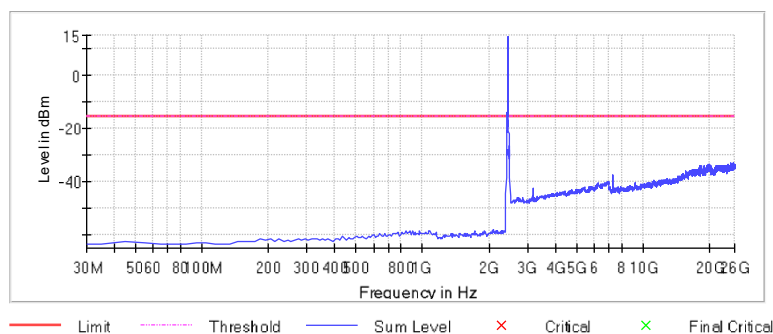


RBW=100 kHz	VBW=300 kHz	Max Hold	Detector Peak
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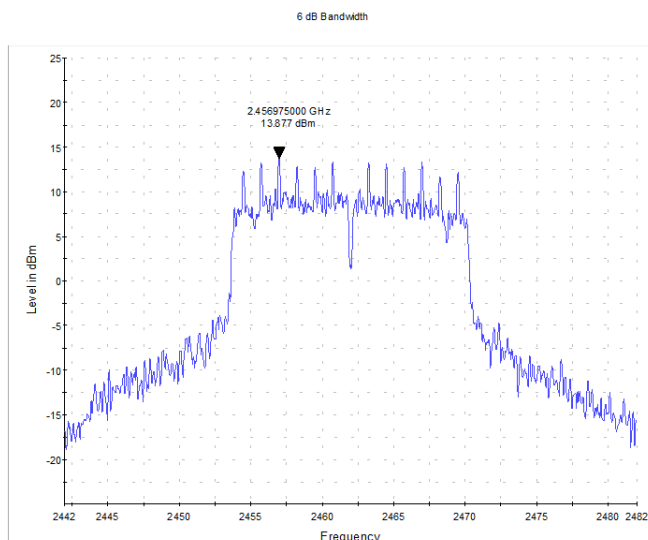
Note: Reference Level Measurement

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
2,399.98	-25.80	16.26	-9.54	PASS
2,394.98	-26.00	16.46	-9.54	PASS
2,395.03	-26.10	16.56	-9.54	PASS
2,394.68	-26.10	16.56	-9.54	PASS
2,394.73	-26.30	16.76	-9.54	PASS
2,399.13	-26.40	16.86	-9.54	PASS
2,396.38	-26.50	16.96	-9.54	PASS
2,394.63	-26.60	17.06	-9.54	PASS
2,396.18	-26.70	17.16	-9.54	PASS
2,394.83	-26.70	17.16	-9.54	PASS
2,396.13	-26.70	17.16	-9.54	PASS
2,396.33	-26.80	17.26	-9.54	PASS
2,399.18	-26.80	17.26	-9.54	PASS
2,394.78	-26.80	17.26	-9.54	PASS
2,396.63	-26.90	17.36	-9.54	PASS

Spurious



Plot 59. 802.11g No HT, 2437MHz, 30MHz-26.5GHz Non-restricted Out of Band

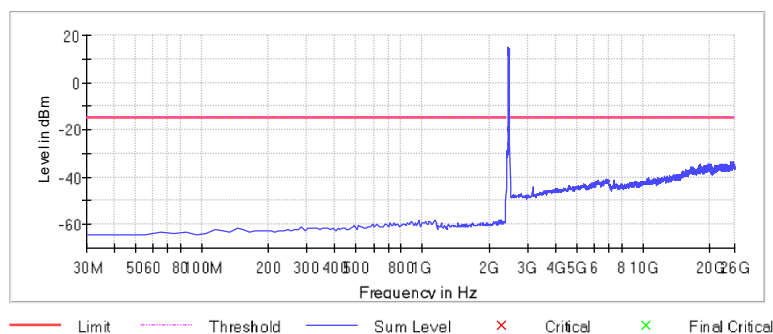


RBW=100 kHz	VBW=300 kHz	Max Hold	Detector Peak
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Note: Reference Level Measurement

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
2,399.98	-25.80	19.68	-6.12	PASS
2,394.98	-26.00	19.88	-6.12	PASS
2,395.03	-26.10	19.98	-6.12	PASS
2,394.68	-26.10	19.98	-6.12	PASS
2,394.73	-26.30	20.18	-6.12	PASS
2,399.13	-26.40	20.28	-6.12	PASS
2,396.38	-26.50	20.38	-6.12	PASS
2,394.63	-26.60	20.48	-6.12	PASS
2,396.18	-26.70	20.58	-6.12	PASS
2,394.83	-26.70	20.58	-6.12	PASS
2,396.13	-26.70	20.58	-6.12	PASS
2,396.33	-26.80	20.68	-6.12	PASS
2,399.18	-26.80	20.68	-6.12	PASS
2,394.78	-26.80	20.68	-6.12	PASS
2,396.63	-26.90	20.78	-6.12	PASS

Spurious



Plot 61. 802.11g No HT, 2462MHz, 30MHz-26.5GHz Non-restricted Out of Band

4.5 Out of Band Emissions: Restricted Band Edge

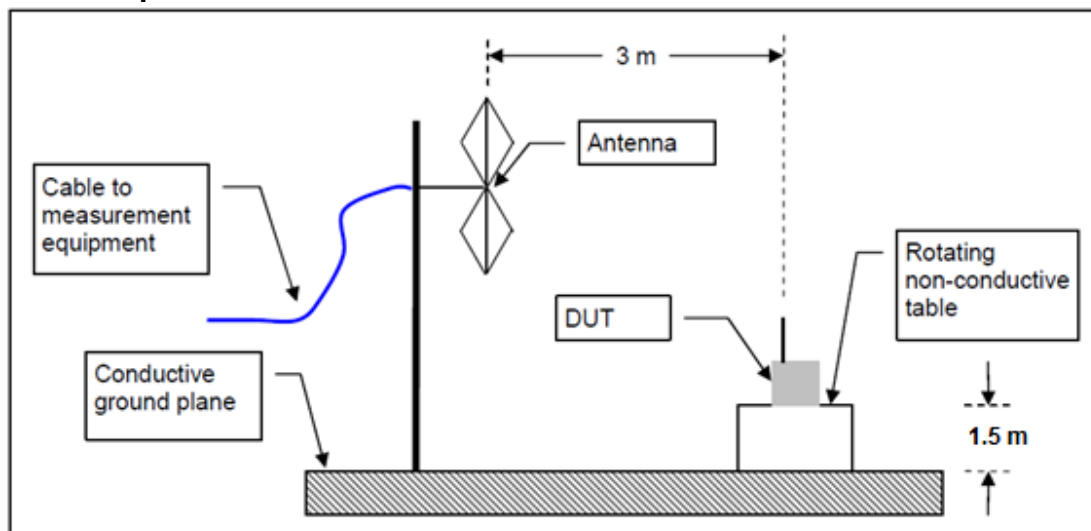
Transmitter spurious emissions are emissions outside the frequency range of the equipment when the equipment is in transmitting mode; per requirement of CFR47 15.205, 15.209, 15.247(d).

4.5.1 Test Method

Radiated measurements per ANSI C63.10-2013 Section 6.10.5 were used to measure the undesirable emission requirement in restricted bands. Peak points were found and RMS Average was taken for each point found. The measurement was performed with modulation. This test was conducted on 3 channels in each mode on the EUT. The worst case measurement of each channel is recorded in this report. All modes were tested in 2x2 configuration since all antenna configurations use the same power settings as 2x2 MIMO mode.

A correction factor was made on the final measurements by adding $10 \log(1/x)$ where x is the duty cycle.

Test Setup

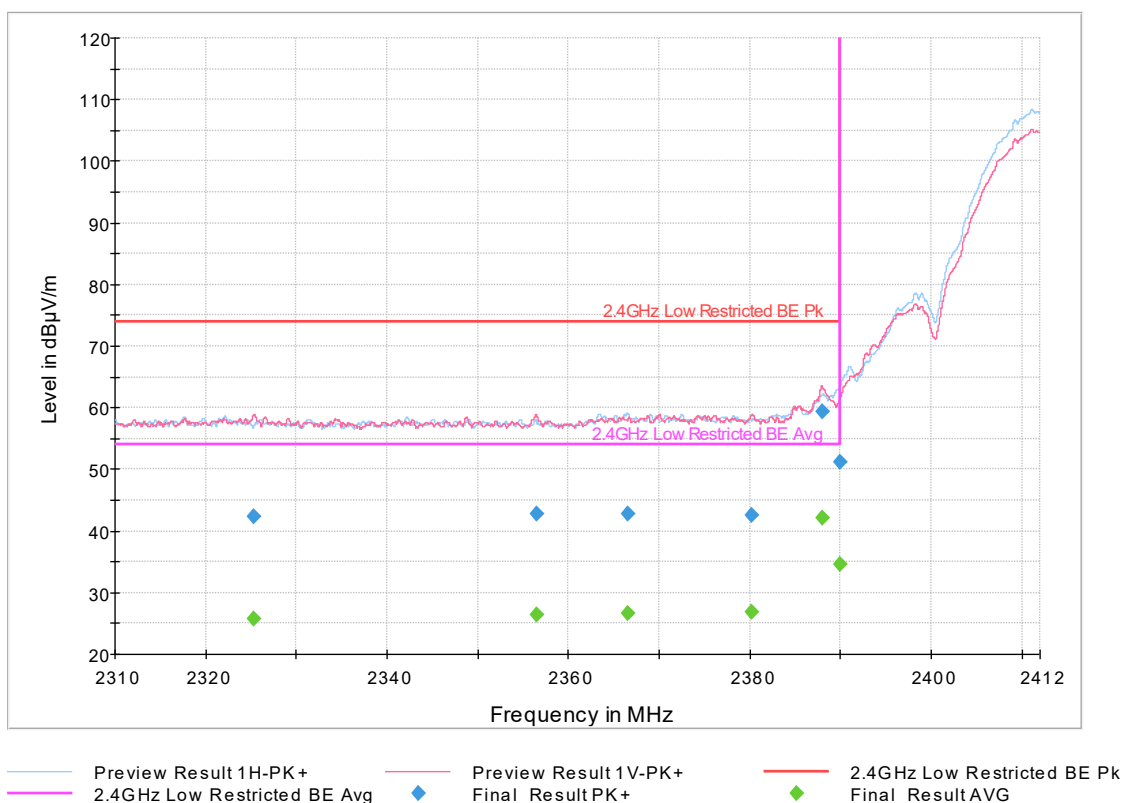


The DUT was stimulated by manufacturer provided test software that is not available to the end user.

4.5.2 Non-BF Test Results

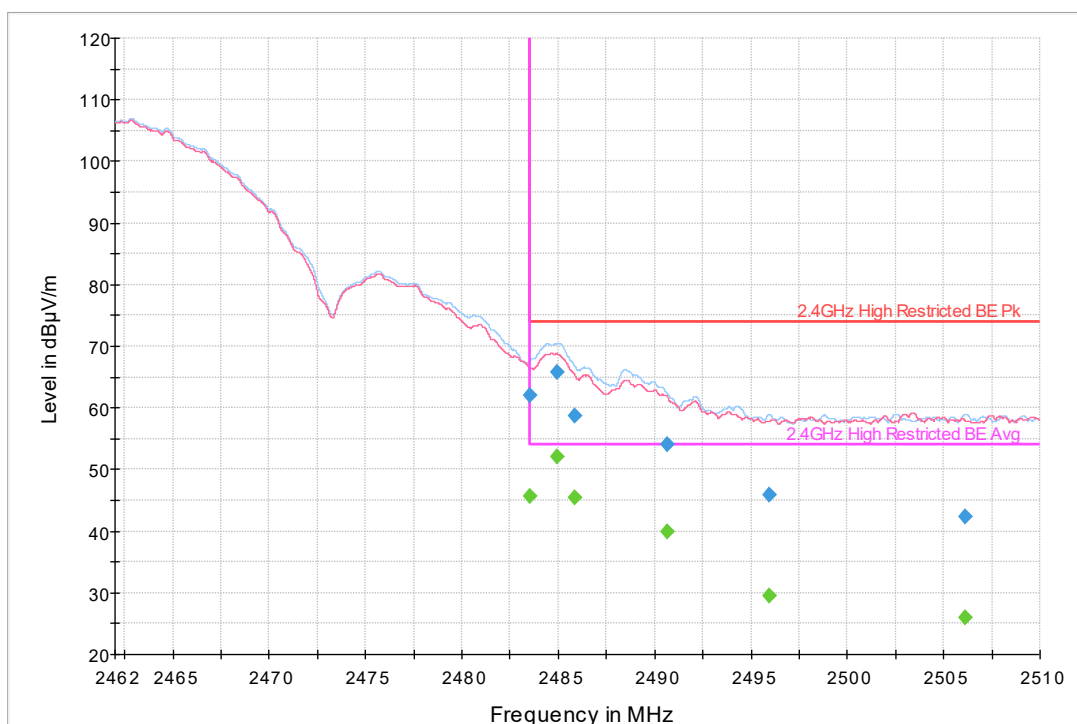
Test Conditions: Radiated Measurement, Normal Temperature and Voltage

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB/m)	Raw Rec (dBμV)
2325.36	42.36	---	74.00	31.64	100.00	350.00	V	-2.00	32.30	4.20	0.00	28.10	10.00
2325.36	---	25.76	54.00	28.24	100.00	350.00	V	-2.00	32.30	4.20	0.00	28.10	-6.60
2356.43	42.80	---	74.00	31.20	100.00	104.00	V	44.00	32.50	4.30	0.00	28.30	10.30
2356.43	---	26.48	54.00	27.52	100.00	104.00	V	44.00	32.50	4.30	0.00	28.30	-6.10
2366.52	42.83	---	74.00	31.17	100.00	355.00	H	196.00	32.70	4.30	0.00	28.50	10.10
2366.52	---	26.73	54.00	27.27	100.00	355.00	H	196.00	32.70	4.30	0.00	28.50	-6.00
2380.25	---	26.77	54.00	27.23	100.00	100.00	V	342.00	32.70	4.30	0.00	28.40	-5.90
2380.25	42.63	---	74.00	31.37	100.00	100.00	V	342.00	32.70	4.30	0.00	28.40	9.90
2387.99	---	42.16	54.00	11.84	100.00	156.00	V	32.00	32.70	4.30	0.00	28.40	9.40
2387.99	59.40	---	74.00	14.60	100.00	156.00	V	32.00	32.70	4.30	0.00	28.40	26.70
2390.00	51.25	---	74.00	22.75	100.00	254.00	H	197.00	32.90	4.30	0.00	28.60	18.40
2390.00	---	34.63	54.00	19.37	100.00	254.00	H	197.00	32.90	4.30	0.00	28.60	1.80



Plot 1. Low Bandedge 802.11b Mode, Low Channel

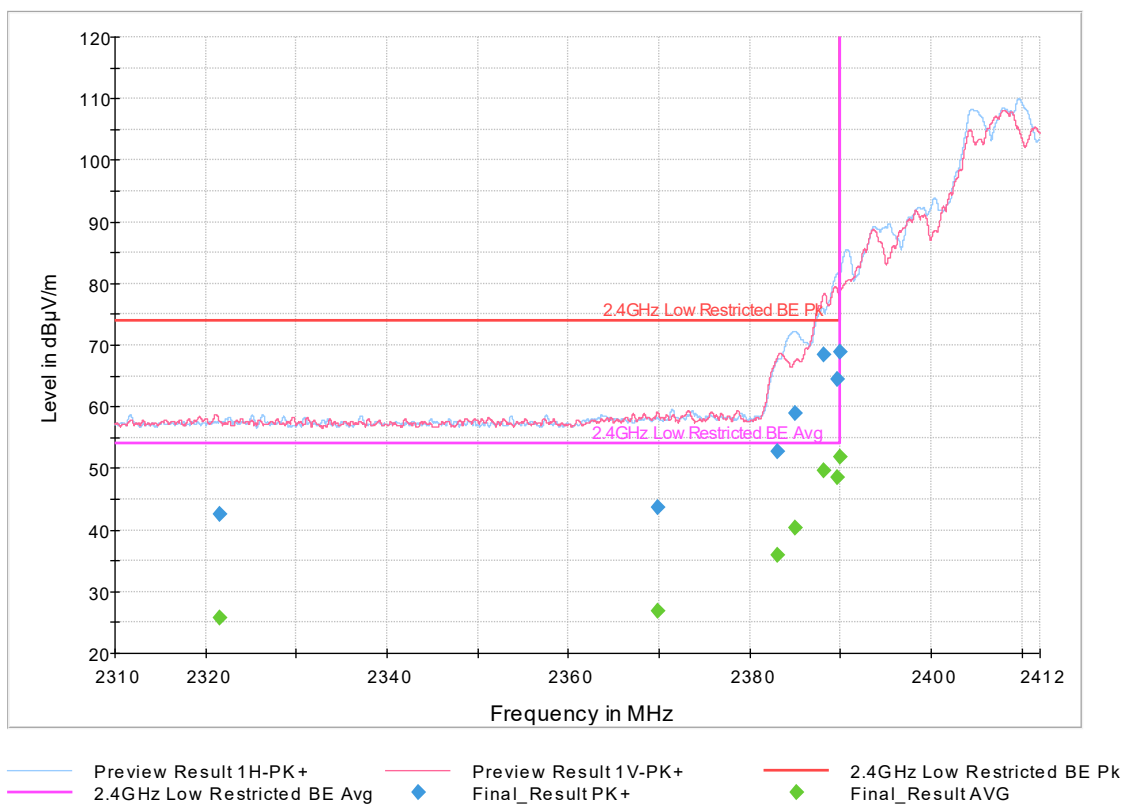
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB/m)	Raw Rec (dBμV)
2483.50	---	45.73	54.00	8.27	100.00	105.00	H	73.00	32.80	4.40	0.00	28.40	12.90
2483.50	62.03	---	74.00	11.97	100.00	105.00	H	73.00	32.80	4.40	0.00	28.40	29.20
2484.93	---	52.10	54.00	1.90	100.00	104.00	H	73.00	32.80	4.40	0.00	28.40	19.30
2484.93	65.70	---	74.00	8.30	100.00	104.00	H	73.00	32.80	4.40	0.00	28.40	32.90
2485.88	---	45.45	54.00	8.55	100.00	105.00	H	73.00	32.80	4.40	0.00	28.40	12.60
2485.88	58.66	---	74.00	15.34	100.00	105.00	H	73.00	32.80	4.40	0.00	28.40	25.80
2490.69	---	39.83	54.00	14.17	100.00	105.00	H	72.00	32.80	4.40	0.00	28.40	7.00
2490.69	54.15	---	74.00	19.85	100.00	105.00	H	72.00	32.80	4.40	0.00	28.40	21.30
2495.95	---	29.61	54.00	24.39	100.00	104.00	H	188.00	32.80	4.50	0.00	28.40	-3.20
2495.95	45.98	---	74.00	28.02	100.00	104.00	H	188.00	32.80	4.50	0.00	28.40	13.20
2506.14	---	26.06	54.00	27.94	100.00	333.00	H	250.00	32.80	4.50	0.00	28.40	-6.80
2506.14	42.31	---	74.00	31.69	100.00	333.00	H	250.00	32.80	4.50	0.00	28.40	9.50



— Preview Result 1H-PK+ — Preview Result 1V-PK+ — 2.4GHz High Restricted BE Pk
— 2.4GHz High Restricted BE Avg ◆ Final_Result PK+ ◆ Final_Result AVG

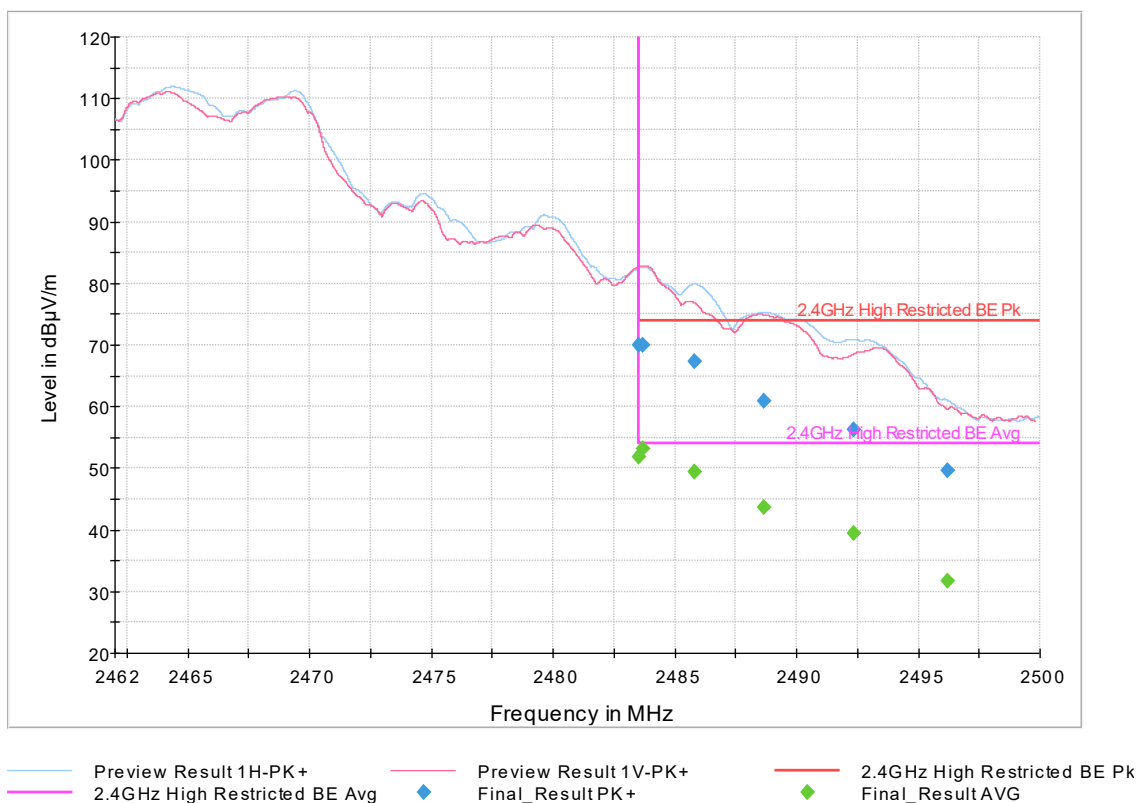
Plot 2. High Bandedge 802.11b Mode, High Channel

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB/m)	Raw Rec (dBμV)
2321.60	---	25.76	54.00	28.24	100.00	150.00	H	282.00	32.20	4.20	0.00	28.00	-6.50
2321.60	42.59	---	74.00	31.41	100.00	150.00	H	282.00	32.20	4.20	0.00	28.00	10.40
2369.83	43.77	---	74.00	30.23	100.00	100.00	V	-1.00	32.60	4.30	0.00	28.30	11.10
2369.83	---	26.79	54.00	27.21	100.00	100.00	V	-1.00	32.60	4.30	0.00	28.30	-5.80
2383.08	52.83	---	74.00	21.17	100.00	100.00	V	59.00	32.70	4.30	0.00	28.40	20.10
2383.08	---	35.97	54.00	18.03	100.00	100.00	V	59.00	32.70	4.30	0.00	28.40	3.30
2384.94	---	40.35	54.00	13.65	100.00	256.00	H	194.00	32.90	4.30	0.00	28.60	7.50
2384.94	58.98	---	74.00	15.02	100.00	256.00	H	194.00	32.90	4.30	0.00	28.60	26.10
2388.20	---	49.55	54.00	4.45	100.00	100.00	V	55.00	32.70	4.30	0.00	28.40	16.80
2388.20	68.42	---	74.00	5.58	100.00	100.00	V	55.00	32.70	4.30	0.00	28.40	35.70
2389.66	64.37	---	74.00	9.63	100.00	334.00	H	195.00	32.90	4.30	0.00	28.60	31.50
2389.66	---	48.61	54.00	5.39	100.00	334.00	H	195.00	32.90	4.30	0.00	28.60	15.70
2390.00	68.90	---	74.00	5.10	100.00	253.00	H	195.00	32.90	4.30	0.00	28.60	36.00
2390.00	---	51.85	54.00	2.15	100.00	253.00	H	195.00	32.90	4.30	0.00	28.60	19.00



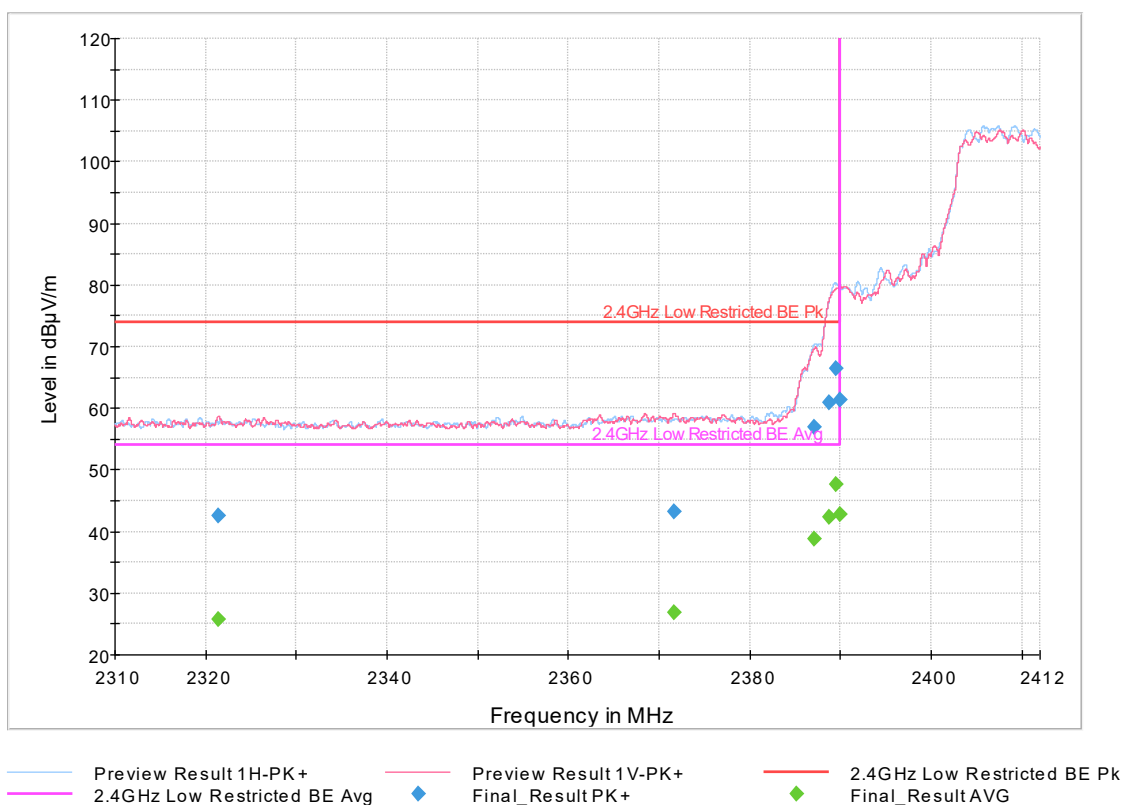
Plot 3. Low Bandedge 802.11g Mode, Low Channel

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB/m)	Raw Rec (dBμV)
2483.50	69.99	---	74.00	4.01	100.00	103.00	V	113.00	32.80	4.40	0.00	28.30	37.20
2483.50	---	51.88	54.00	2.12	100.00	103.00	V	113.00	32.80	4.40	0.00	28.30	19.10
2483.66	---	53.13	54.00	0.87	100.00	100.00	V	116.00	32.80	4.40	0.00	28.30	20.40
2483.66	70.09	---	74.00	3.91	100.00	100.00	V	116.00	32.80	4.40	0.00	28.30	37.30
2485.80	67.26	---	74.00	6.74	100.00	154.00	H	66.00	32.80	4.40	0.00	28.40	34.40
2485.80	---	49.39	54.00	4.61	100.00	154.00	H	66.00	32.80	4.40	0.00	28.40	16.60
2488.65	---	43.62	54.00	10.38	100.00	154.00	H	66.00	32.80	4.40	0.00	28.40	10.80
2488.65	60.88	---	74.00	13.12	100.00	154.00	H	66.00	32.80	4.40	0.00	28.40	28.10
2492.35	56.27	---	74.00	17.73	100.00	155.00	H	70.00	32.80	4.40	0.00	28.40	23.50
2492.35	---	39.43	54.00	14.57	100.00	155.00	H	70.00	32.80	4.40	0.00	28.40	6.60
2496.18	49.61	---	74.00	24.39	100.00	100.00	H	76.00	32.80	4.50	0.00	28.40	16.80
2496.18	---	31.72	54.00	22.28	100.00	100.00	H	76.00	32.80	4.50	0.00	28.40	-1.10



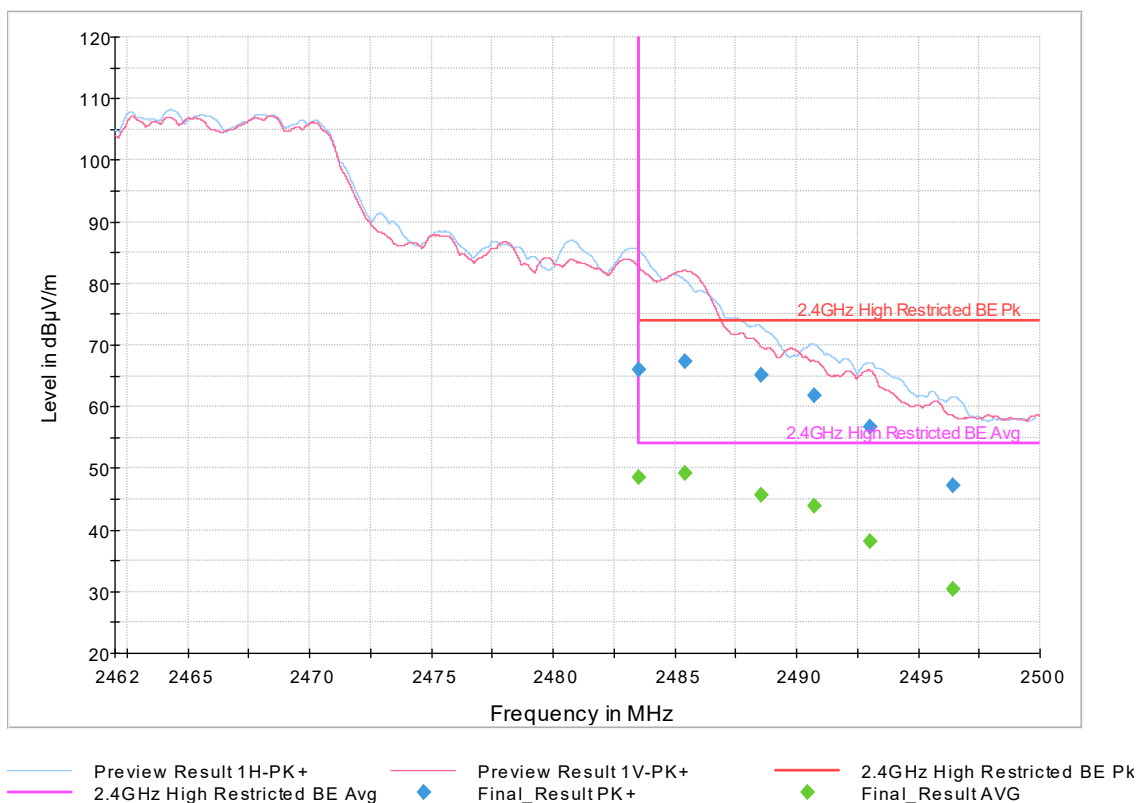
Plot 4. High Bandedge 802.11g Mode, High Channel

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB/m)	Raw Rec (dBμV)
2321.42	42.58	---	74.00	31.42	100.00	354.00	V	206.00	32.30	4.20	0.00	28.10	10.30
2321.42	---	25.81	54.00	28.19	100.00	354.00	V	206.00	32.30	4.20	0.00	28.10	-6.50
2371.64	---	26.82	54.00	27.18	100.00	356.00	V	104.00	32.60	4.30	0.00	28.40	-5.80
2371.64	43.20	---	74.00	30.80	100.00	356.00	V	104.00	32.60	4.30	0.00	28.40	10.60
2387.11	57.04	---	74.00	16.96	100.00	100.00	H	105.00	32.90	4.30	0.00	28.60	24.20
2387.11	---	38.86	54.00	15.14	100.00	100.00	H	105.00	32.90	4.30	0.00	28.60	6.00
2388.70	60.91	---	74.00	13.09	100.00	336.00	V	280.00	32.70	4.30	0.00	28.40	28.20
2388.70	---	42.31	54.00	11.69	100.00	336.00	V	280.00	32.70	4.30	0.00	28.40	9.60
2389.46	66.37	---	74.00	7.63	100.00	100.00	H	101.00	32.90	4.30	0.00	28.60	33.50
2389.46	---	47.65	54.00	6.35	100.00	100.00	H	101.00	32.90	4.30	0.00	28.60	14.80
2389.99	---	42.69	54.00	11.31	100.00	356.00	V	277.00	32.70	4.30	0.00	28.40	10.00
2389.99	61.45	---	74.00	12.55	100.00	356.00	V	277.00	32.70	4.30	0.00	28.40	28.70



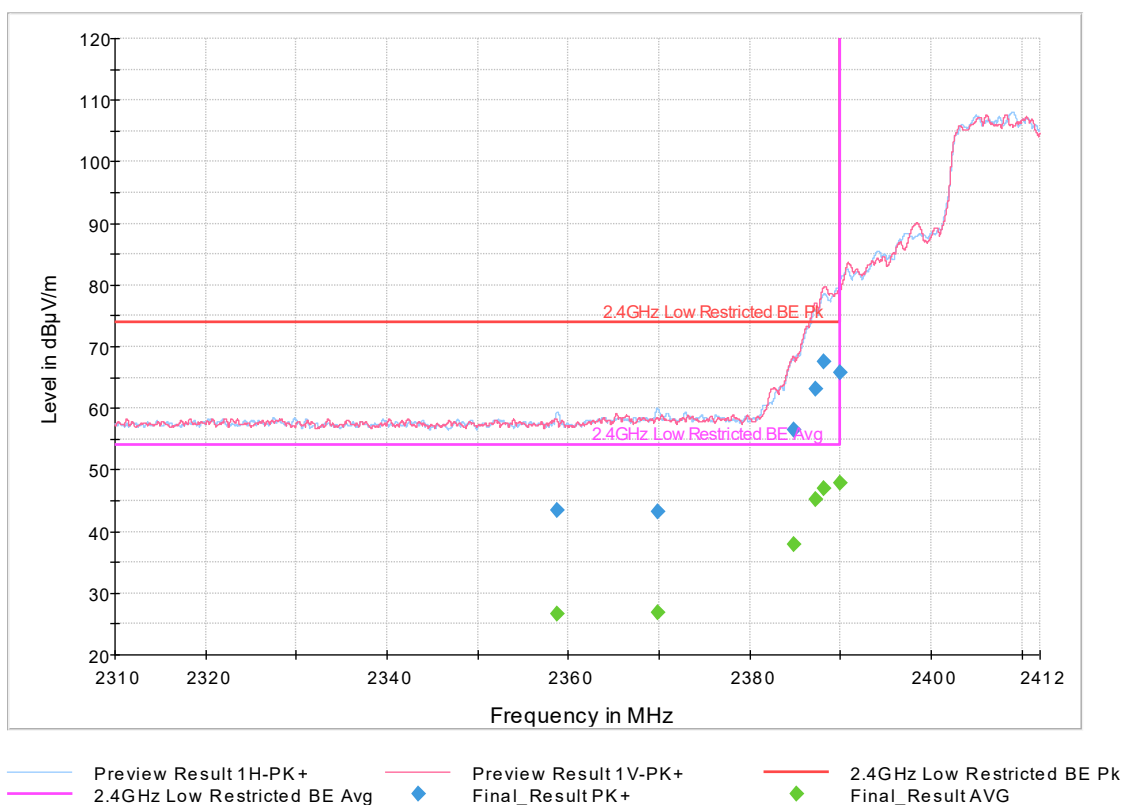
Plot 5. Low Bandedge 802.11n Mode, Low Channel

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB/m)	Raw Rec (dBμV)
2483.51	66.09	---	74.00	7.91	100.00	103.00	H	58.00	32.80	4.40	0.00	28.40	33.30
2483.51	---	48.47	54.00	5.53	100.00	103.00	H	58.00	32.80	4.40	0.00	28.40	15.60
2485.39	---	49.23	54.00	4.77	100.00	100.00	V	41.00	32.80	4.40	0.00	28.30	16.50
2485.39	67.29	---	74.00	6.71	100.00	100.00	V	41.00	32.80	4.40	0.00	28.30	34.50
2488.54	65.11	---	74.00	8.89	100.00	100.00	H	60.00	32.80	4.40	0.00	28.40	32.30
2488.54	---	45.74	54.00	8.26	100.00	100.00	H	60.00	32.80	4.40	0.00	28.40	12.90
2490.73	61.74	---	74.00	12.26	100.00	100.00	H	57.00	32.80	4.40	0.00	28.40	28.90
2490.73	---	43.85	54.00	10.15	100.00	100.00	H	57.00	32.80	4.40	0.00	28.40	11.00
2492.99	56.67	---	74.00	17.33	100.00	100.00	H	57.00	32.80	4.40	0.00	28.40	23.90
2492.99	---	38.14	54.00	15.86	100.00	100.00	H	57.00	32.80	4.40	0.00	28.40	5.30
2496.44	47.31	---	74.00	26.69	100.00	234.00	H	187.00	32.80	4.50	0.00	28.40	14.50
2496.44	---	30.47	54.00	23.53	100.00	234.00	H	187.00	32.80	4.50	0.00	28.40	-2.30



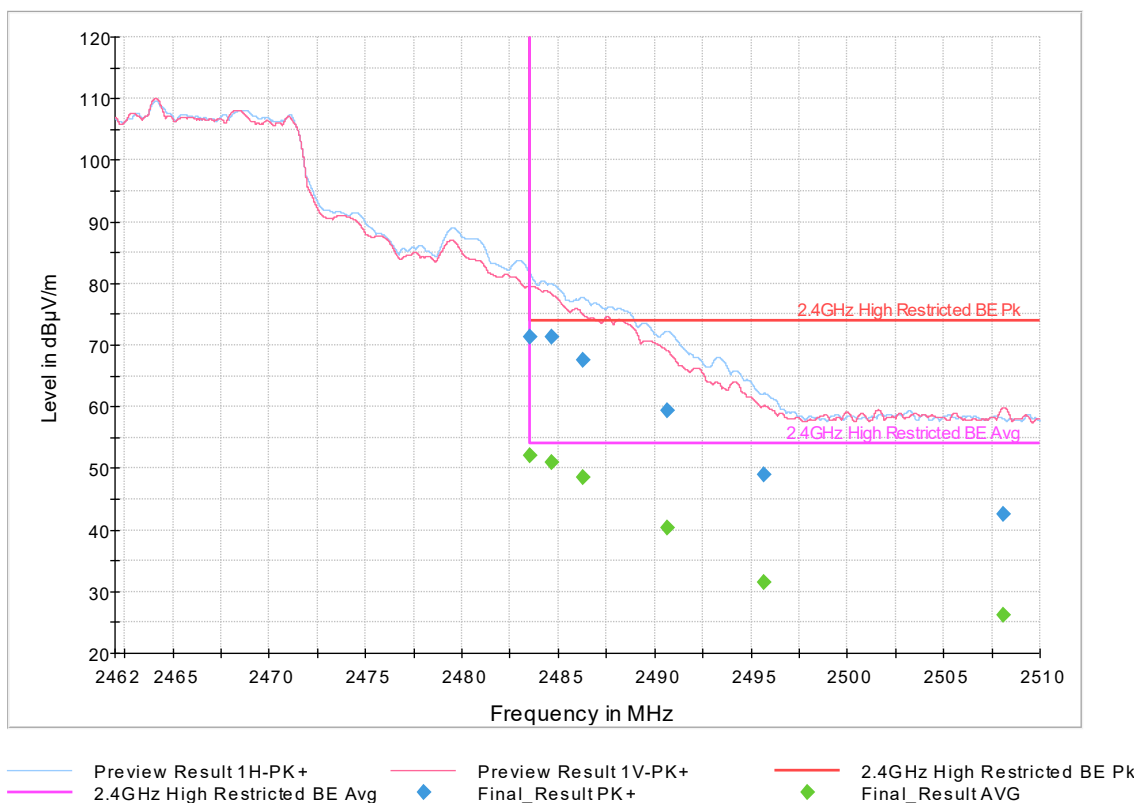
Plot 6. High Bandedge 802.11n Mode, High Channel

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB/m)	Raw Rec (dBμV)
2358.80	43.46	---	74.00	30.54	100.00	236.00	H	171.00	32.60	4.30	0.00	28.40	10.80
2358.80	---	26.72	54.00	27.28	100.00	236.00	H	171.00	32.60	4.30	0.00	28.40	-5.90
2369.83	---	26.95	54.00	27.05	100.00	253.00	H	21.00	32.80	4.30	0.00	28.50	-5.80
2369.83	43.14	---	74.00	30.86	100.00	253.00	H	21.00	32.80	4.30	0.00	28.50	10.40
2384.79	56.42	---	74.00	17.58	100.00	353.00	V	271.00	32.70	4.30	0.00	28.40	23.70
2384.79	---	37.83	54.00	16.17	100.00	353.00	V	271.00	32.70	4.30	0.00	28.40	5.10
2387.20	63.25	---	74.00	10.75	100.00	356.00	V	276.00	32.70	4.30	0.00	28.40	30.50
2387.20	---	45.19	54.00	8.81	100.00	356.00	V	276.00	32.70	4.30	0.00	28.40	12.50
2388.19	67.64	---	74.00	6.36	100.00	355.00	V	273.00	32.70	4.30	0.00	28.40	34.90
2388.19	---	46.98	54.00	7.02	100.00	355.00	V	273.00	32.70	4.30	0.00	28.40	14.20
2390.00	---	47.88	54.00	6.12	100.00	100.00	H	98.00	32.90	4.30	0.00	28.60	15.00
2390.00	65.90	---	74.00	8.10	100.00	100.00	H	98.00	32.90	4.30	0.00	28.60	33.00



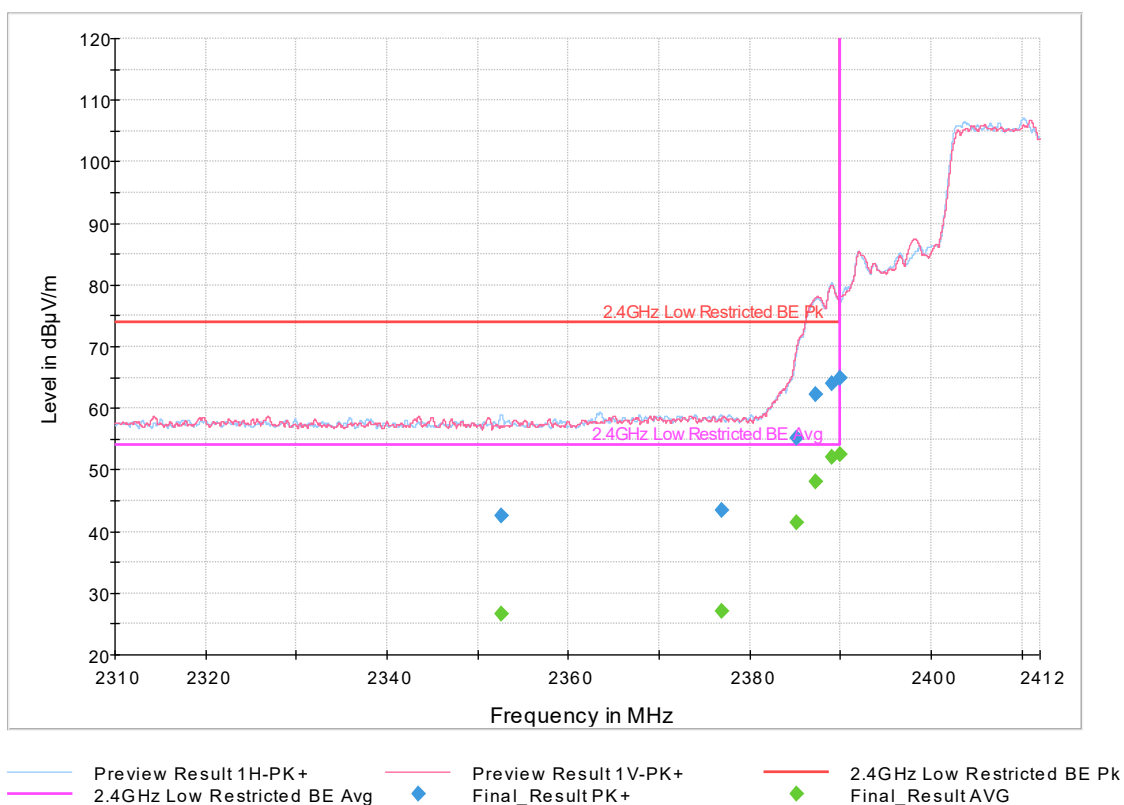
Plot 7. Low Bandedge 802.11ax Mode, Low Channel

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB/m)	Raw Rec (dBμV)
2483.50	71.37	---	74.00	2.63	100.00	100.00	H	62.00	32.80	4.40	0.00	28.40	38.50
2483.50	---	51.98	54.00	2.02	100.00	100.00	H	62.00	32.80	4.40	0.00	28.40	19.10
2484.64	---	50.97	54.00	3.03	100.00	100.00	H	56.00	32.80	4.40	0.00	28.40	18.10
2484.64	71.26	---	74.00	2.74	100.00	100.00	H	56.00	32.80	4.40	0.00	28.40	38.40
2486.26	67.65	---	74.00	6.35	100.00	100.00	H	56.00	32.80	4.40	0.00	28.40	34.80
2486.26	---	48.55	54.00	5.45	100.00	100.00	H	56.00	32.80	4.40	0.00	28.40	15.70
2490.69	---	40.29	54.00	13.71	100.00	100.00	H	186.00	32.80	4.40	0.00	28.40	7.50
2490.69	59.44	---	74.00	14.56	100.00	100.00	H	186.00	32.80	4.40	0.00	28.40	26.60
2495.71	---	31.43	54.00	22.57	100.00	154.00	H	184.00	32.80	4.50	0.00	28.40	-1.40
2495.71	48.91	---	74.00	25.09	100.00	154.00	H	184.00	32.80	4.50	0.00	28.40	16.10
2508.13	---	26.21	54.00	27.79	100.00	356.00	V	75.00	32.80	4.50	0.00	28.30	-6.60
2508.13	42.58	---	74.00	31.42	100.00	356.00	V	75.00	32.80	4.50	0.00	28.30	9.80



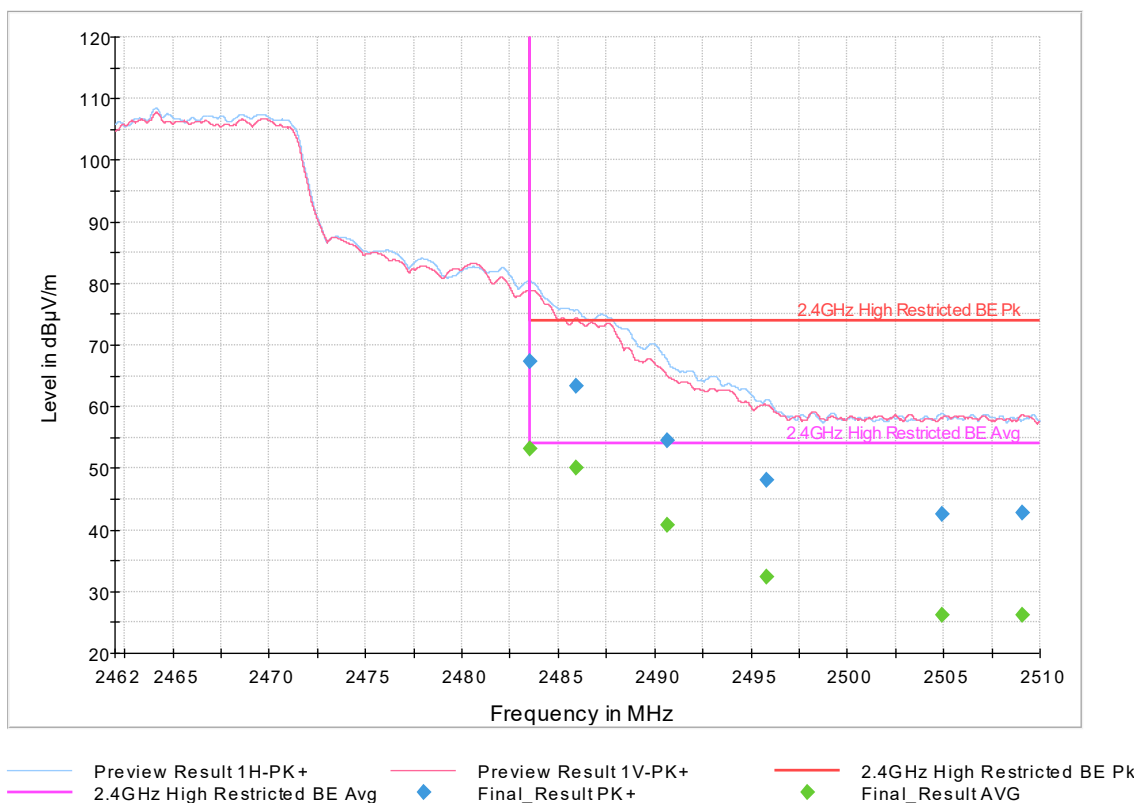
Plot 8. High Bandedge 802.11ax Mode, High Channel

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB/m)	Raw Rec (dBμV)
2352.61	42.57	---	74.00	31.43	100.00	355.00	H	287.00	32.50	4.30	0.00	28.30	10.00
2352.61	---	26.54	54.00	27.46	100.00	355.00	H	287.00	32.50	4.30	0.00	28.30	-6.00
2376.86	---	26.97	54.00	27.03	100.00	250.00	H	227.00	32.80	4.30	0.00	28.50	-5.80
2376.86	43.52	---	74.00	30.48	100.00	250.00	H	227.00	32.80	4.30	0.00	28.50	10.70
2385.18	---	41.36	54.00	12.64	100.00	350.00	V	271.00	32.70	4.30	0.00	28.40	8.60
2385.18	55.21	---	74.00	18.79	100.00	350.00	V	271.00	32.70	4.30	0.00	28.40	22.50
2387.22	---	48.14	54.00	5.86	100.00	350.00	V	269.00	32.70	4.30	0.00	28.40	15.40
2387.22	62.29	---	74.00	11.71	100.00	350.00	V	269.00	32.70	4.30	0.00	28.40	29.60
2389.03	---	51.99	54.00	2.01	100.00	155.00	H	241.00	32.90	4.30	0.00	28.60	19.10
2389.03	63.97	---	74.00	10.03	100.00	155.00	H	241.00	32.90	4.30	0.00	28.60	31.10
2390.00	64.82	---	74.00	9.18	100.00	335.00	V	258.00	32.70	4.30	0.00	28.40	32.10
2390.00	---	52.62	54.00	1.38	100.00	335.00	V	258.00	32.70	4.30	0.00	28.40	19.90



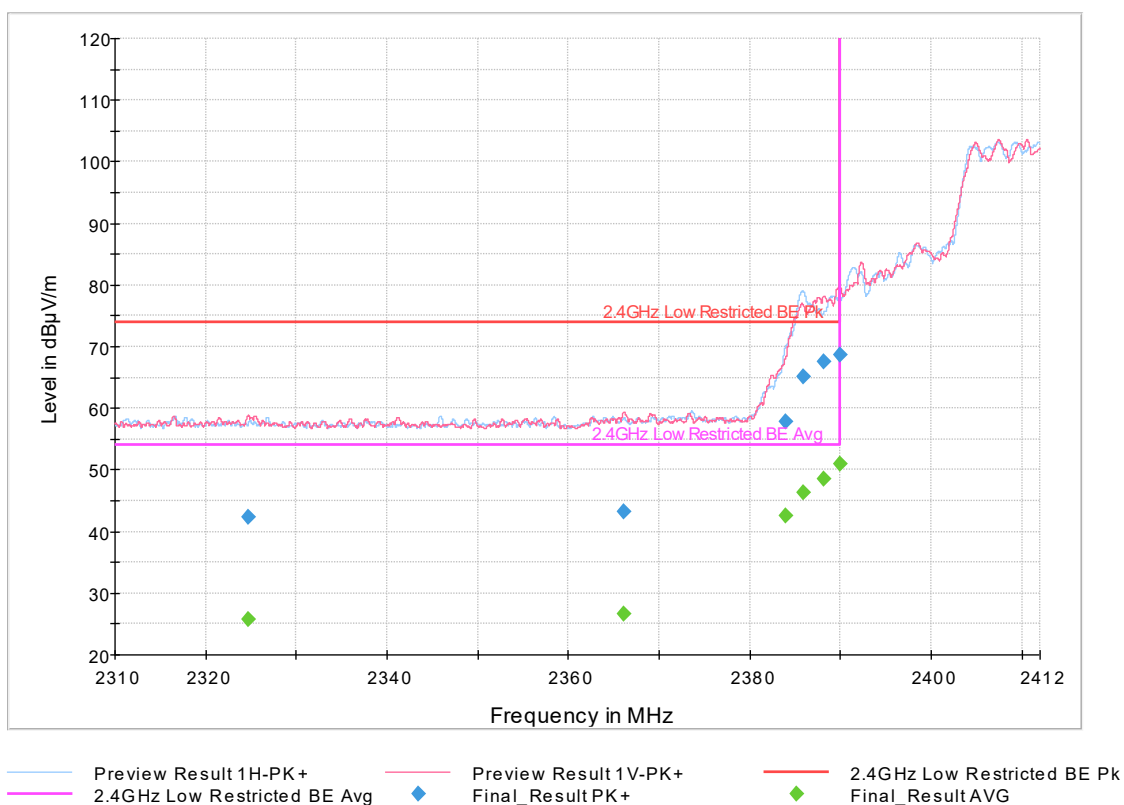
Plot 9. Low Bandedge 802.11ac Mode, Low Channel

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB/m)	Raw Rec (dBμV)
2483.50	---	53.17	54.00	0.83	100.00	100.00	H	56.00	32.80	4.40	0.00	28.40	20.30
2483.50	67.39	---	74.00	6.61	100.00	100.00	H	56.00	32.80	4.40	0.00	28.40	34.60
2485.95	---	50.16	54.00	3.84	100.00	100.00	H	56.00	32.80	4.40	0.00	28.40	17.30
2485.95	63.27	---	74.00	10.73	100.00	100.00	H	56.00	32.80	4.40	0.00	28.40	30.40
2490.69	54.56	---	74.00	19.44	100.00	152.00	H	186.00	32.80	4.40	0.00	28.40	21.70
2490.69	---	40.73	54.00	13.27	100.00	152.00	H	186.00	32.80	4.40	0.00	28.40	7.90
2495.84	48.17	---	74.00	25.83	100.00	100.00	H	60.00	32.80	4.50	0.00	28.40	15.40
2495.84	---	32.41	54.00	21.59	100.00	100.00	H	60.00	32.80	4.50	0.00	28.40	-0.40
2504.94	---	26.10	54.00	27.90	100.00	355.00	H	165.00	32.80	4.50	0.00	28.40	-6.70
2504.94	42.59	---	74.00	31.41	100.00	355.00	H	165.00	32.80	4.50	0.00	28.40	9.80
2509.07	---	26.14	54.00	27.86	100.00	100.00	V	269.00	32.80	4.50	0.00	28.30	-6.70
2509.07	42.86	---	74.00	31.14	100.00	100.00	V	269.00	32.80	4.50	0.00	28.30	10.10



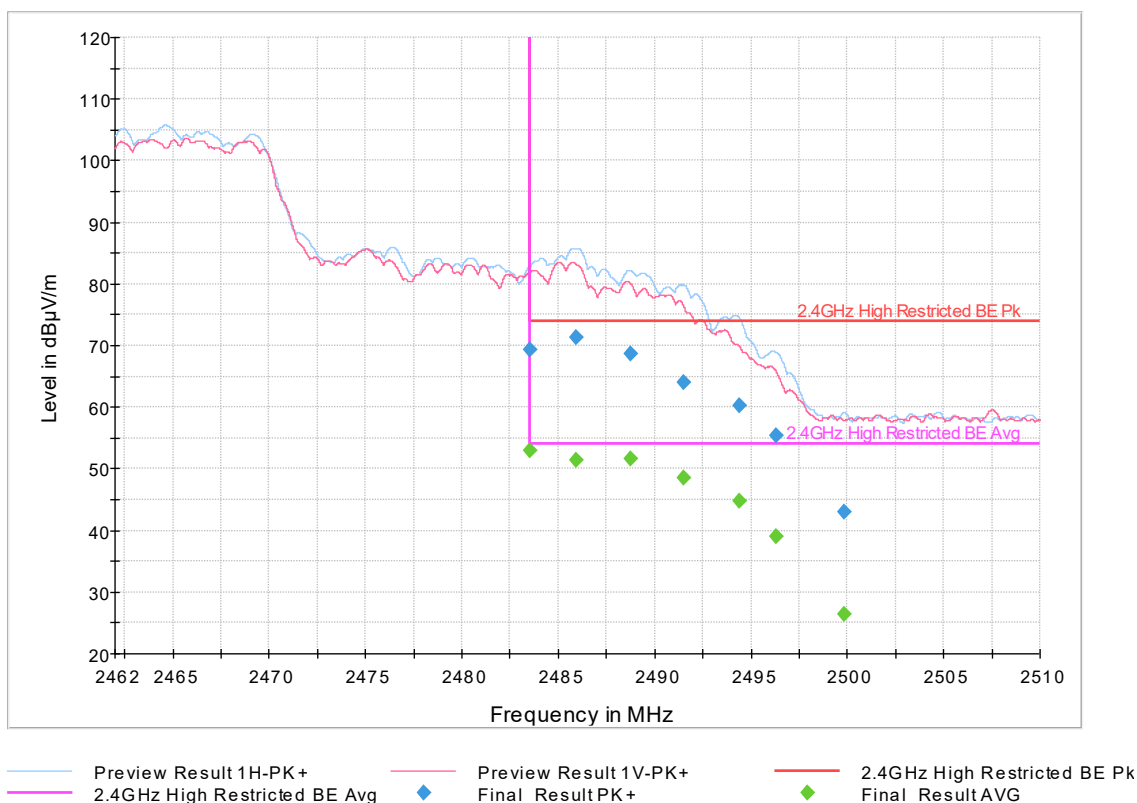
Plot 10. High Bandedge 802.11ac Mode, High Channel

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB/m)	Raw Rec (dBμV)
2324.77	---	25.76	54.00	28.24	100.00	250.00	V	277.00	32.30	4.20	0.00	28.10	-6.50
2324.77	42.43	---	74.00	31.57	100.00	250.00	V	277.00	32.30	4.20	0.00	28.10	10.10
2366.11	43.15	---	74.00	30.85	100.00	250.00	V	308.00	32.60	4.30	0.00	28.30	10.50
2366.11	---	26.62	54.00	27.38	100.00	250.00	V	308.00	32.60	4.30	0.00	28.30	-6.00
2383.95	57.83	---	74.00	16.17	100.00	100.00	H	100.00	32.90	4.30	0.00	28.60	25.00
2383.95	---	42.53	54.00	11.47	100.00	100.00	H	100.00	32.90	4.30	0.00	28.60	9.70
2385.84	65.05	---	74.00	8.95	100.00	100.00	H	104.00	32.90	4.30	0.00	28.60	32.20
2385.84	---	46.29	54.00	7.71	100.00	100.00	H	104.00	32.90	4.30	0.00	28.60	13.40
2388.15	---	48.47	54.00	5.53	100.00	100.00	V	42.00	32.70	4.30	0.00	28.40	15.70
2388.15	67.52	---	74.00	6.48	100.00	100.00	V	42.00	32.70	4.30	0.00	28.40	34.80
2389.89	---	50.97	54.00	3.03	100.00	100.00	V	38.00	32.70	4.30	0.00	28.40	18.20
2389.89	68.74	---	74.00	5.26	100.00	100.00	V	38.00	32.70	4.30	0.00	28.40	36.00



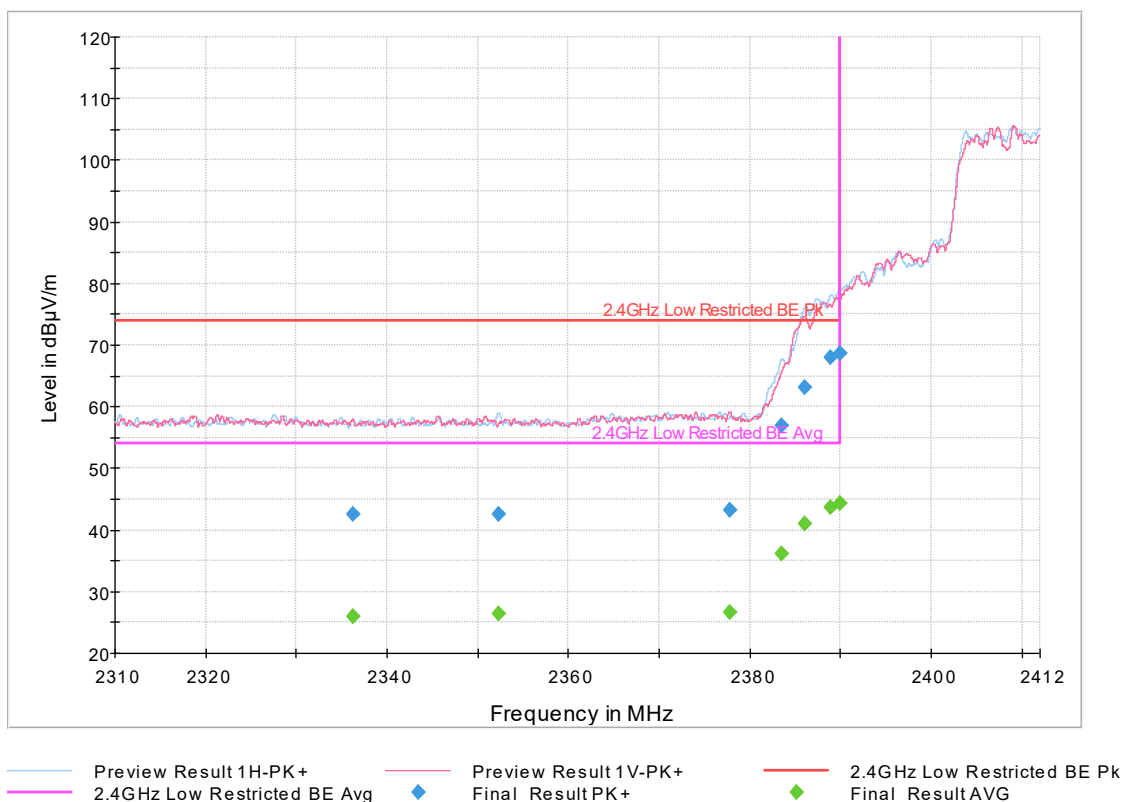
Plot 11. Low Bandedge 802.11n 40 MHz Mode, Low Channel

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB/m)	Raw Rec (dBμV)
2483.50	69.37	---	74.00	4.63	100.00	154.00	H	120.00	32.80	4.40	0.00	28.40	36.50
2483.50	---	52.92	54.00	1.08	100.00	154.00	H	120.00	32.80	4.40	0.00	28.40	20.10
2485.95	---	51.39	54.00	2.61	100.00	100.00	H	55.00	32.80	4.40	0.00	28.40	18.60
2485.95	71.33	---	74.00	2.67	100.00	100.00	H	55.00	32.80	4.40	0.00	28.40	38.50
2488.76	68.68	---	74.00	5.32	100.00	100.00	H	54.00	32.80	4.40	0.00	28.40	35.90
2488.76	---	51.55	54.00	2.45	100.00	100.00	H	54.00	32.80	4.40	0.00	28.40	18.70
2491.52	64.10	---	74.00	9.90	100.00	100.00	H	54.00	32.80	4.40	0.00	28.40	31.30
2491.52	---	48.46	54.00	5.54	100.00	100.00	H	54.00	32.80	4.40	0.00	28.40	15.60
2494.43	60.33	---	74.00	13.67	100.00	150.00	H	52.00	32.80	4.40	0.00	28.40	27.50
2494.43	---	44.83	54.00	9.17	100.00	150.00	H	52.00	32.80	4.40	0.00	28.40	12.00
2496.33	55.39	---	74.00	18.61	100.00	100.00	H	54.00	32.80	4.50	0.00	28.40	22.60
2496.33	---	39.07	54.00	14.93	100.00	100.00	H	54.00	32.80	4.50	0.00	28.40	6.30
2499.86	---	26.47	54.00	27.53	100.00	250.00	H	167.00	32.80	4.50	0.00	28.30	-6.30
2499.86	43.09	---	74.00	30.91	100.00	250.00	H	167.00	32.80	4.50	0.00	28.30	10.30



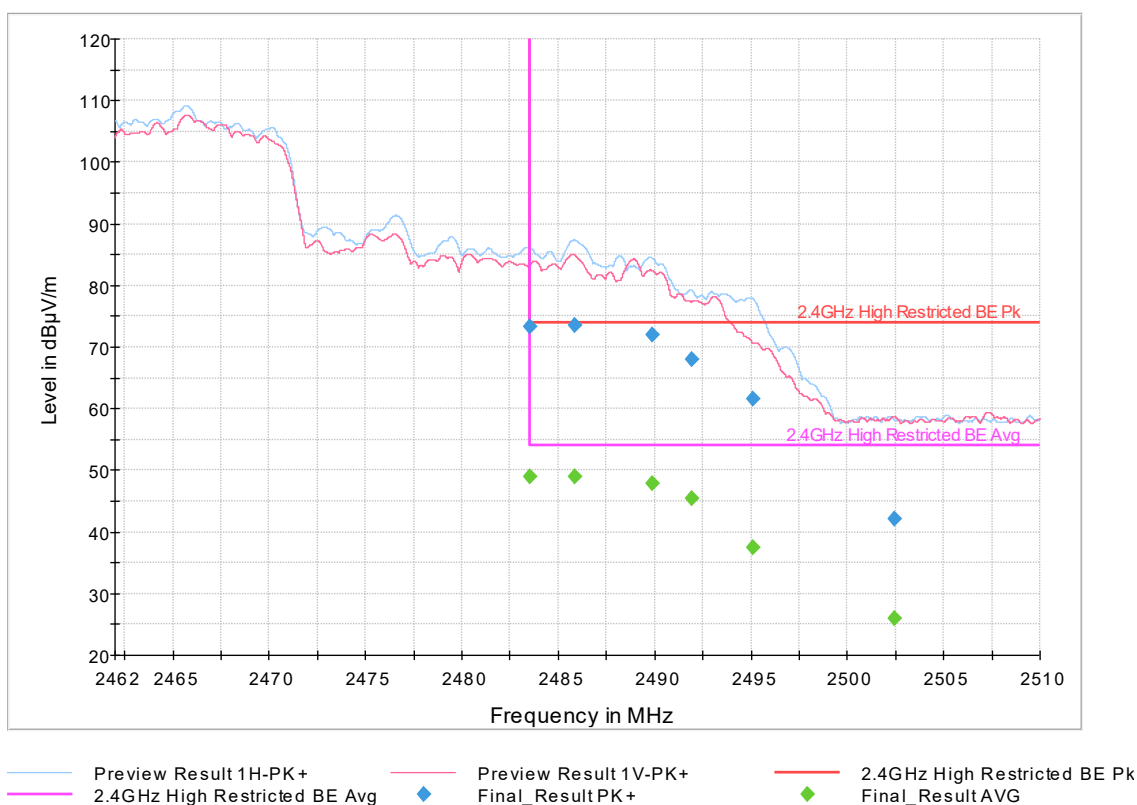
Plot 12. High Bandedge 802.11n 40 MHz Mode, High Channel

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB/m)	Raw Rec (dBμV)
2336.23	---	26.02	54.00	27.98	100.00	100.00	H	48.00	32.40	4.20	0.00	28.20	-6.40
2336.23	42.65	---	74.00	31.35	100.00	100.00	H	48.00	32.40	4.20	0.00	28.20	10.20
2352.30	---	26.43	54.00	27.57	100.00	154.00	H	271.00	32.50	4.30	0.00	28.30	-6.10
2352.30	42.63	---	74.00	31.37	100.00	154.00	H	271.00	32.50	4.30	0.00	28.30	10.10
2377.76	---	26.73	54.00	27.27	100.00	153.00	V	244.00	32.70	4.30	0.00	28.40	-5.90
2377.76	43.23	---	74.00	30.77	100.00	153.00	V	244.00	32.70	4.30	0.00	28.40	10.60
2383.51	56.95	---	74.00	17.05	100.00	100.00	H	54.00	32.90	4.30	0.00	28.60	24.10
2383.51	---	36.25	54.00	17.75	100.00	100.00	H	54.00	32.90	4.30	0.00	28.60	3.40
2386.11	63.04	---	74.00	10.96	100.00	100.00	H	51.00	32.90	4.30	0.00	28.60	30.20
2386.11	---	40.93	54.00	13.07	100.00	100.00	H	51.00	32.90	4.30	0.00	28.60	8.10
2388.88	---	43.71	54.00	10.29	100.00	100.00	H	54.00	32.90	4.30	0.00	28.60	10.80
2388.88	68.07	---	74.00	5.93	100.00	100.00	H	54.00	32.90	4.30	0.00	28.60	35.20
2390.00	---	44.44	54.00	9.56	100.00	100.00	H	54.00	32.90	4.30	0.00	28.60	11.60
2390.00	68.65	---	74.00	5.35	100.00	100.00	H	54.00	32.90	4.30	0.00	28.60	35.80



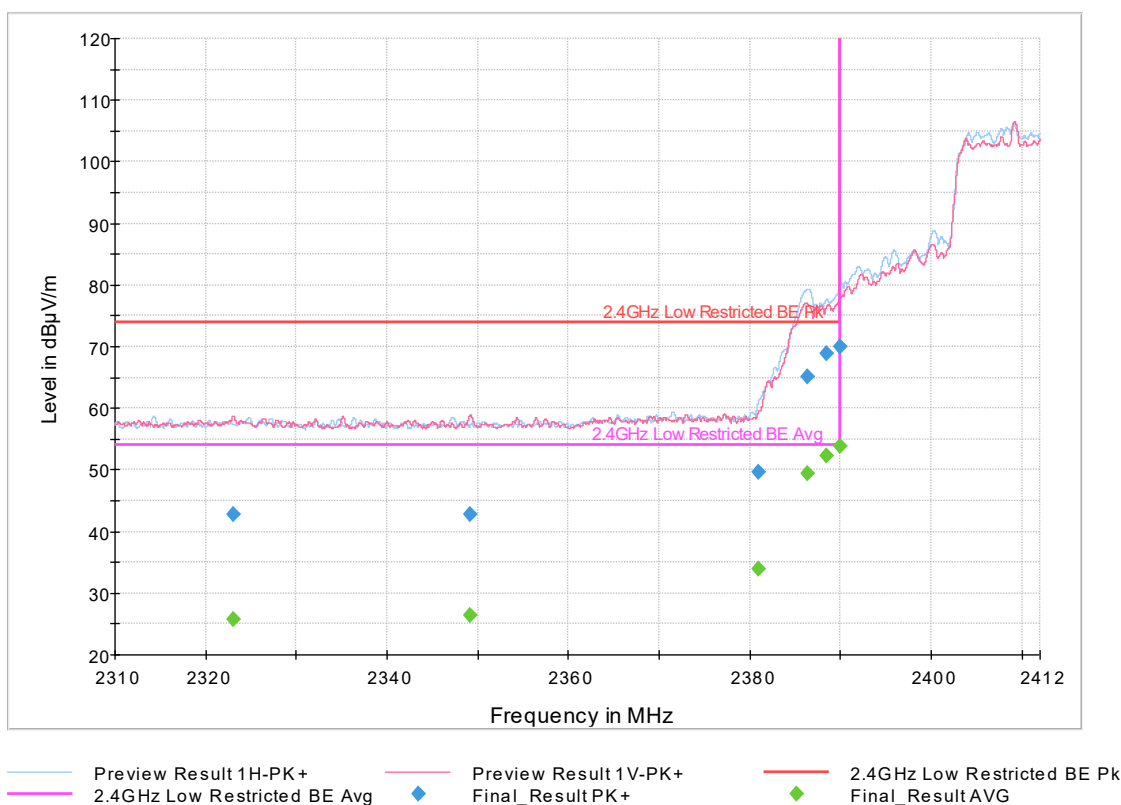
Plot 13. Low Bandedge 802.11ax 40 MHz Mode, Low Channel

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB/m)	Raw Rec (dBμV)
2483.50	---	49.07	54.00	4.93	100.00	103.00	H	56.00	32.80	4.40	0.00	28.40	16.20
2483.50	73.37	---	74.00	0.63	100.00	103.00	H	56.00	32.80	4.40	0.00	28.40	40.50
2485.85	---	48.96	54.00	5.04	100.00	103.00	H	59.00	32.80	4.40	0.00	28.40	16.10
2485.85	73.44	---	74.00	0.56	100.00	103.00	H	59.00	32.80	4.40	0.00	28.40	40.60
2489.86	71.91	---	74.00	2.09	100.00	100.00	H	56.00	32.80	4.40	0.00	28.40	39.10
2489.86	---	47.89	54.00	6.11	100.00	100.00	H	56.00	32.80	4.40	0.00	28.40	15.10
2491.95	67.92	---	74.00	6.08	100.00	103.00	H	55.00	32.80	4.40	0.00	28.40	35.10
2491.95	---	45.45	54.00	8.55	100.00	103.00	H	55.00	32.80	4.40	0.00	28.40	12.60
2495.14	---	37.58	54.00	16.42	100.00	103.00	H	183.00	32.80	4.40	0.00	28.40	4.80
2495.14	61.48	---	74.00	12.52	100.00	103.00	H	183.00	32.80	4.40	0.00	28.40	28.70
2502.46	---	25.95	54.00	28.05	100.00	336.00	V	139.00	32.80	4.50	0.00	28.30	-6.80
2502.46	42.10	---	74.00	31.90	100.00	336.00	V	139.00	32.80	4.50	0.00	28.30	9.30

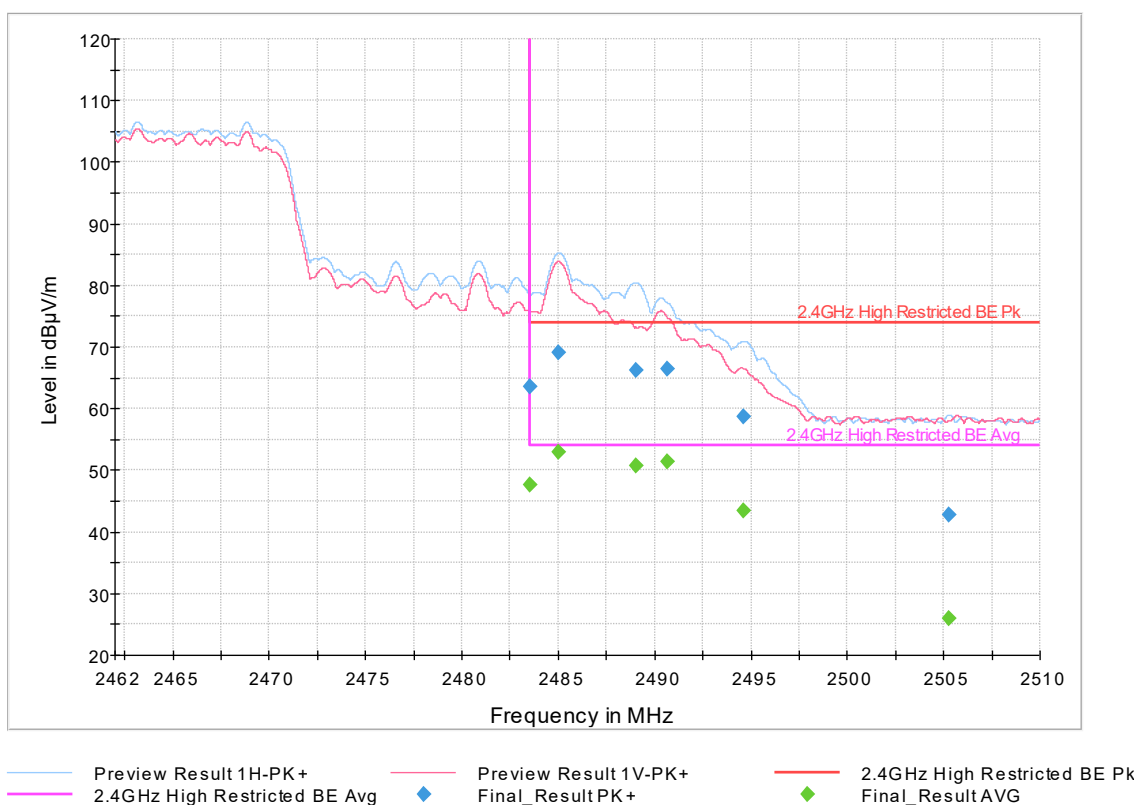


Plot 14. High Bandedge 802.11ax 40 MHz Mode, High Channel

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB/m)	Raw Rec (dBμV)
2323.06	---	25.70	54.00	28.30	100.00	350.00	V	77.00	32.30	4.20	0.00	28.10	-6.60
2323.06	42.82	---	74.00	31.18	100.00	350.00	V	77.00	32.30	4.20	0.00	28.10	10.50
2349.20	---	26.32	54.00	27.68	100.00	253.00	V	317.00	32.50	4.30	0.00	28.20	-6.20
2349.20	42.69	---	74.00	31.31	100.00	253.00	V	317.00	32.50	4.30	0.00	28.20	10.20
2380.93	49.58	---	74.00	24.42	100.00	100.00	H	53.00	32.80	4.30	0.00	28.60	16.70
2380.93	---	33.86	54.00	20.14	100.00	100.00	H	53.00	32.80	4.30	0.00	28.60	1.00
2386.37	65.10	---	74.00	8.90	100.00	100.00	H	53.00	32.90	4.30	0.00	28.60	32.20
2386.37	---	49.37	54.00	4.63	100.00	100.00	H	53.00	32.90	4.30	0.00	28.60	16.50
2388.52	---	52.36	54.00	1.64	100.00	100.00	H	53.00	32.90	4.30	0.00	28.60	19.50
2388.52	68.79	---	74.00	5.21	100.00	100.00	H	53.00	32.90	4.30	0.00	28.60	35.90
2390.00	---	53.84	54.00	0.16	100.00	100.00	H	53.00	32.90	4.30	0.00	28.60	21.00
2390.00	69.89	---	74.00	4.11	100.00	100.00	H	53.00	32.90	4.30	0.00	28.60	37.00



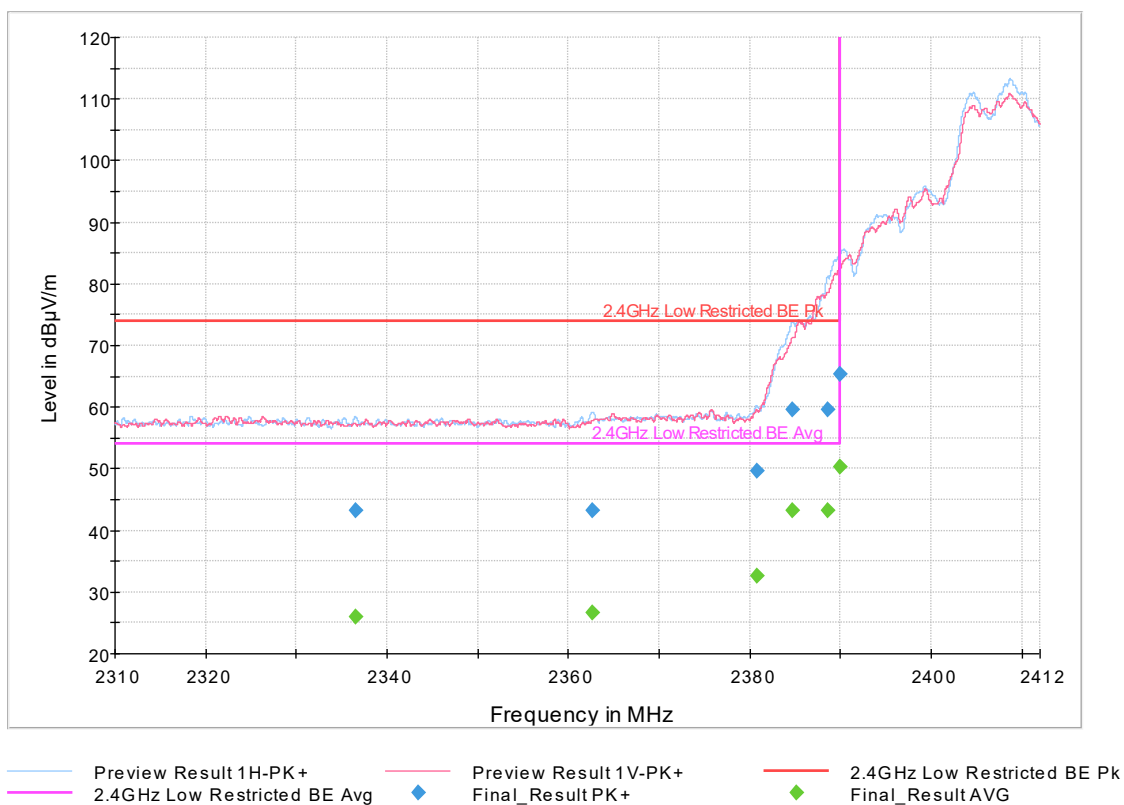
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB/m)	Raw Rec (dBμV)
2483.50	63.57	---	74.00	10.43	100.00	104.00	H	6.00	32.80	4.40	0.00	28.40	30.70
2483.50	---	47.59	54.00	6.41	100.00	104.00	H	6.00	32.80	4.40	0.00	28.40	14.70
2485.02	---	52.86	54.00	1.14	100.00	104.00	H	64.00	32.80	4.40	0.00	28.40	20.00
2485.02	69.22	---	74.00	4.78	100.00	104.00	H	64.00	32.80	4.40	0.00	28.40	36.40
2489.03	66.16	---	74.00	7.84	100.00	100.00	H	56.00	32.80	4.40	0.00	28.40	33.30
2489.03	---	50.86	54.00	3.14	100.00	100.00	H	56.00	32.80	4.40	0.00	28.40	18.00
2490.69	---	51.44	54.00	2.56	100.00	100.00	H	64.00	32.80	4.40	0.00	28.40	18.60
2490.69	66.42	---	74.00	7.58	100.00	100.00	H	64.00	32.80	4.40	0.00	28.40	33.60
2494.63	---	43.37	54.00	10.63	100.00	100.00	H	64.00	32.80	4.40	0.00	28.40	10.60
2494.63	58.73	---	74.00	15.27	100.00	100.00	H	64.00	32.80	4.40	0.00	28.40	25.90
2505.29	---	26.04	54.00	27.96	100.00	250.00	H	-2.00	32.80	4.50	0.00	28.40	-6.80
2505.29	42.89	---	74.00	31.11	100.00	250.00	H	-2.00	32.80	4.50	0.00	28.40	10.10



Plot 16. High Bandedge 802.11ac 40 MHz Mode, High Channel

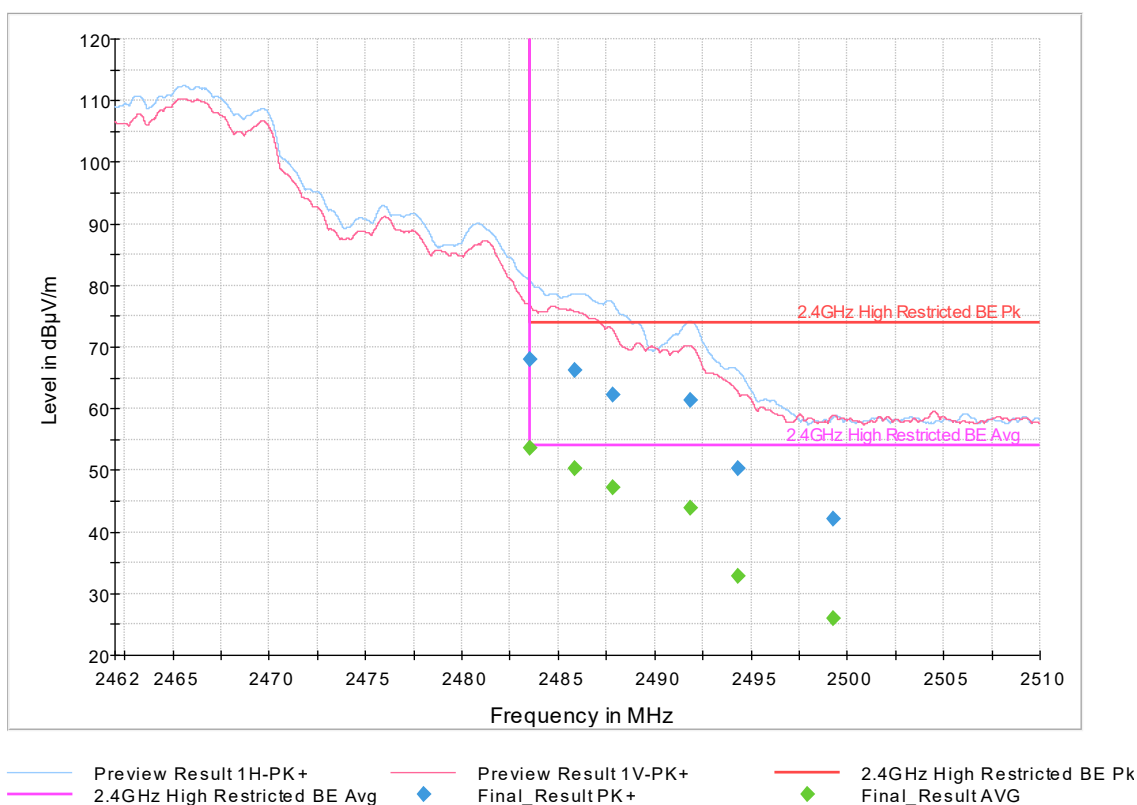
4.5.3 BF Test Results

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB/m)	Raw Rec (dBμV)
2336.51	43.27	---	74.00	30.73	100.00	350.00	H	326.00	32.40	4.20	0.00	28.20	10.90
2336.51	---	26.02	54.00	27.98	100.00	350.00	H	326.00	32.40	4.20	0.00	28.20	-6.40
2362.64	43.29	---	74.00	30.71	100.00	250.00	H	256.00	32.70	4.30	0.00	28.40	10.60
2362.64	---	26.64	54.00	27.36	100.00	250.00	H	256.00	32.70	4.30	0.00	28.40	-6.00
2380.75	---	32.55	54.00	21.45	100.00	108.00	H	56.00	32.80	4.30	0.00	28.60	-0.30
2380.75	49.73	---	74.00	24.27	100.00	108.00	H	56.00	32.80	4.30	0.00	28.60	16.90
2384.65	59.50	---	74.00	14.50	100.00	104.00	H	54.00	32.90	4.30	0.00	28.60	26.60
2384.65	---	43.23	54.00	10.77	100.00	104.00	H	54.00	32.90	4.30	0.00	28.60	10.40
2388.54	59.63	---	74.00	14.37	100.00	100.00	H	160.00	32.90	4.30	0.00	28.60	26.80
2388.54	---	43.16	54.00	10.84	100.00	100.00	H	160.00	32.90	4.30	0.00	28.60	10.30
2390.00	---	50.23	54.00	3.77	100.00	104.00	H	53.00	32.90	4.30	0.00	28.60	17.40
2390.00	65.34	---	74.00	8.66	100.00	104.00	H	53.00	32.90	4.30	0.00	28.60	32.50



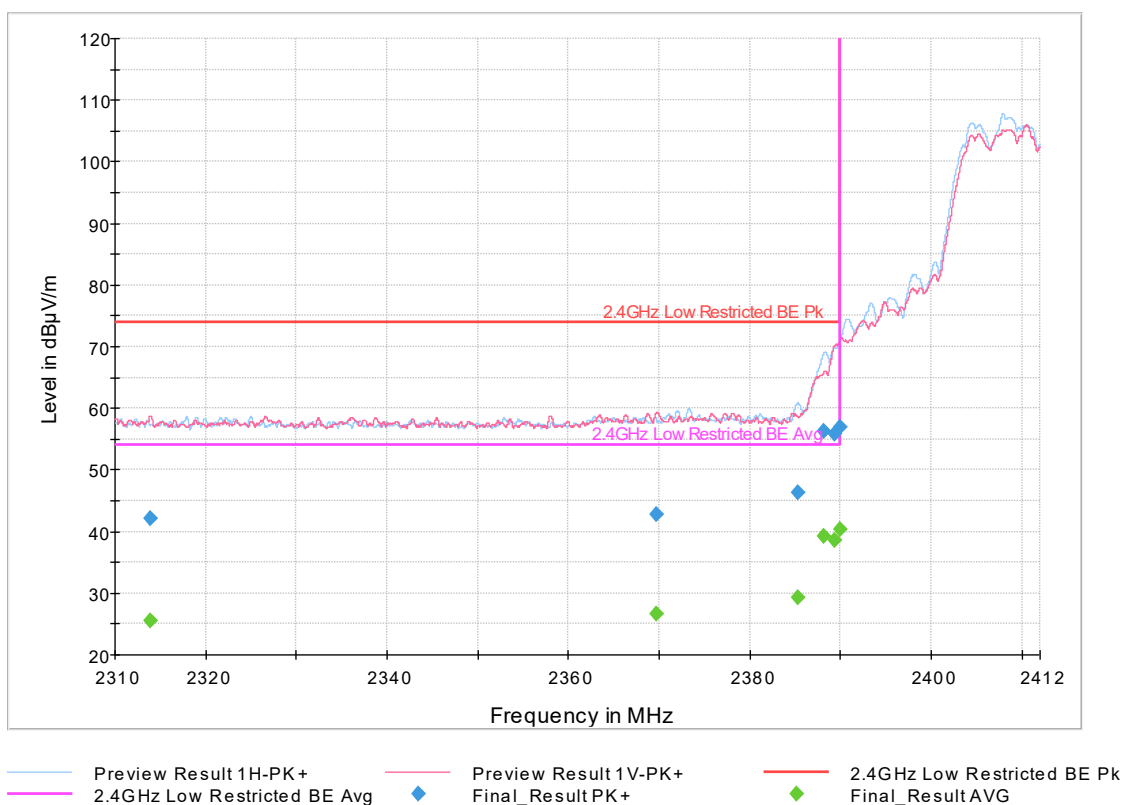
Plot 17. Low Bandedge 802.11g Mode, Low Channel

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB/m)	Raw Rec (dBμV)
2483.50	67.90	---	74.00	6.10	100.00	100.00	H	58.00	32.80	4.40	0.00	28.40	35.10
2483.50	---	53.60	54.00	0.40	100.00	100.00	H	58.00	32.80	4.40	0.00	28.40	20.80
2485.88	66.26	---	74.00	7.74	100.00	100.00	H	62.00	32.80	4.40	0.00	28.40	33.40
2485.88	---	50.31	54.00	3.69	100.00	100.00	H	62.00	32.80	4.40	0.00	28.40	17.50
2487.81	62.35	---	74.00	11.65	100.00	100.00	H	58.00	32.80	4.40	0.00	28.40	29.50
2487.81	---	47.21	54.00	6.79	100.00	100.00	H	58.00	32.80	4.40	0.00	28.40	14.40
2491.86	---	43.98	54.00	10.02	100.00	100.00	H	62.00	32.80	4.40	0.00	28.40	11.20
2491.86	61.33	---	74.00	12.67	100.00	100.00	H	62.00	32.80	4.40	0.00	28.40	28.50
2494.31	---	32.88	54.00	21.12	100.00	100.00	H	62.00	32.80	4.40	0.00	28.40	0.10
2494.31	50.27	---	74.00	23.73	100.00	100.00	H	62.00	32.80	4.40	0.00	28.40	17.50
2499.27	---	25.86	54.00	28.14	100.00	250.00	V	316.00	32.80	4.50	0.00	28.30	-6.90
2499.27	42.17	---	74.00	31.83	100.00	250.00	V	316.00	32.80	4.50	0.00	28.30	9.40



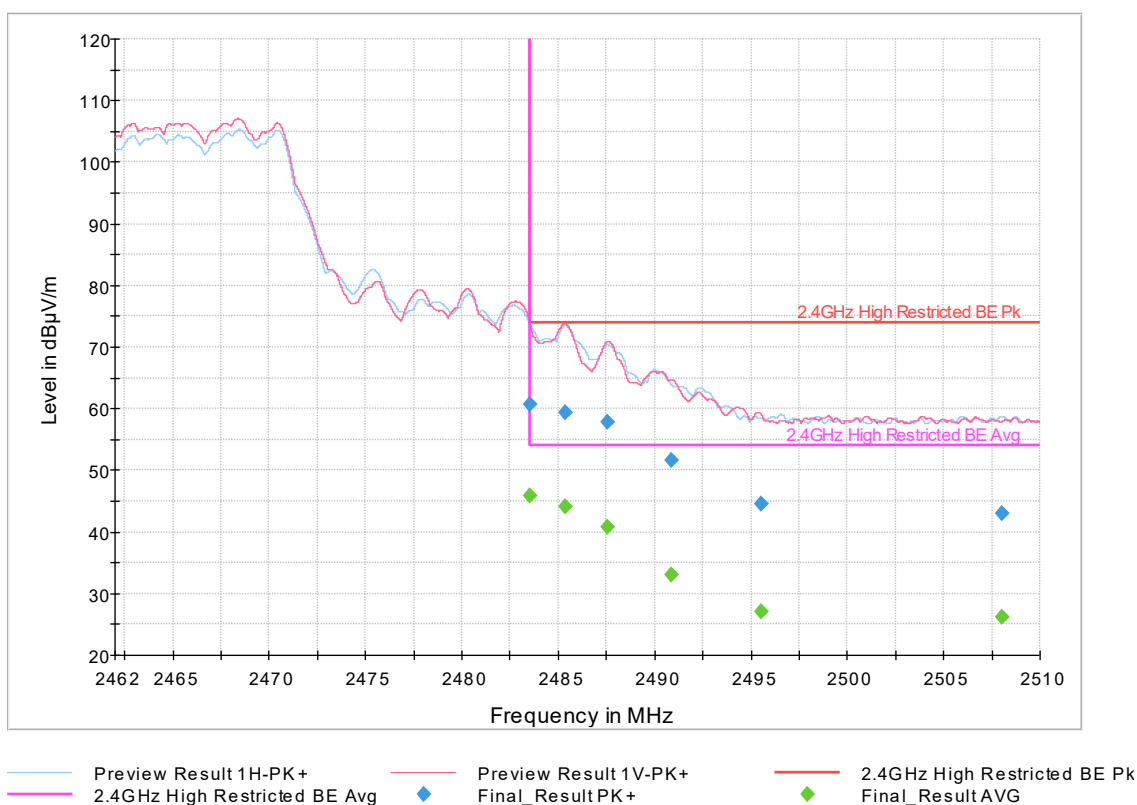
Plot 18. High Bandedge 802.11g Mode, High Channel

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB/m)	Raw Rec (dBμV)
2313.93	42.17	---	74.00	31.83	100.00	152.00	V	262.00	32.20	4.20	0.00	28.00	10.00
2313.93	---	25.46	54.00	28.54	100.00	152.00	V	262.00	32.20	4.20	0.00	28.00	-6.80
2369.74	42.79	---	74.00	31.21	100.00	100.00	V	270.00	32.60	4.30	0.00	28.30	10.20
2369.74	---	26.63	54.00	27.37	100.00	100.00	V	270.00	32.60	4.30	0.00	28.30	-6.00
2385.27	46.24	---	74.00	27.76	100.00	100.00	H	118.00	32.90	4.30	0.00	28.60	13.40
2385.27	---	29.19	54.00	24.81	100.00	100.00	H	118.00	32.90	4.30	0.00	28.60	-3.70
2388.22	56.23	---	74.00	17.77	100.00	100.00	H	49.00	32.90	4.30	0.00	28.60	23.40
2388.22	---	39.25	54.00	14.75	100.00	100.00	H	49.00	32.90	4.30	0.00	28.60	6.40
2389.35	---	38.54	54.00	15.46	100.00	334.00	V	271.00	32.70	4.30	0.00	28.40	5.80
2389.35	55.82	---	74.00	18.18	100.00	334.00	V	271.00	32.70	4.30	0.00	28.40	23.10
2390.00	---	40.28	54.00	13.72	100.00	253.00	V	277.00	32.70	4.30	0.00	28.40	7.50
2390.00	57.03	---	74.00	16.97	100.00	253.00	V	277.00	32.70	4.30	0.00	28.40	24.30



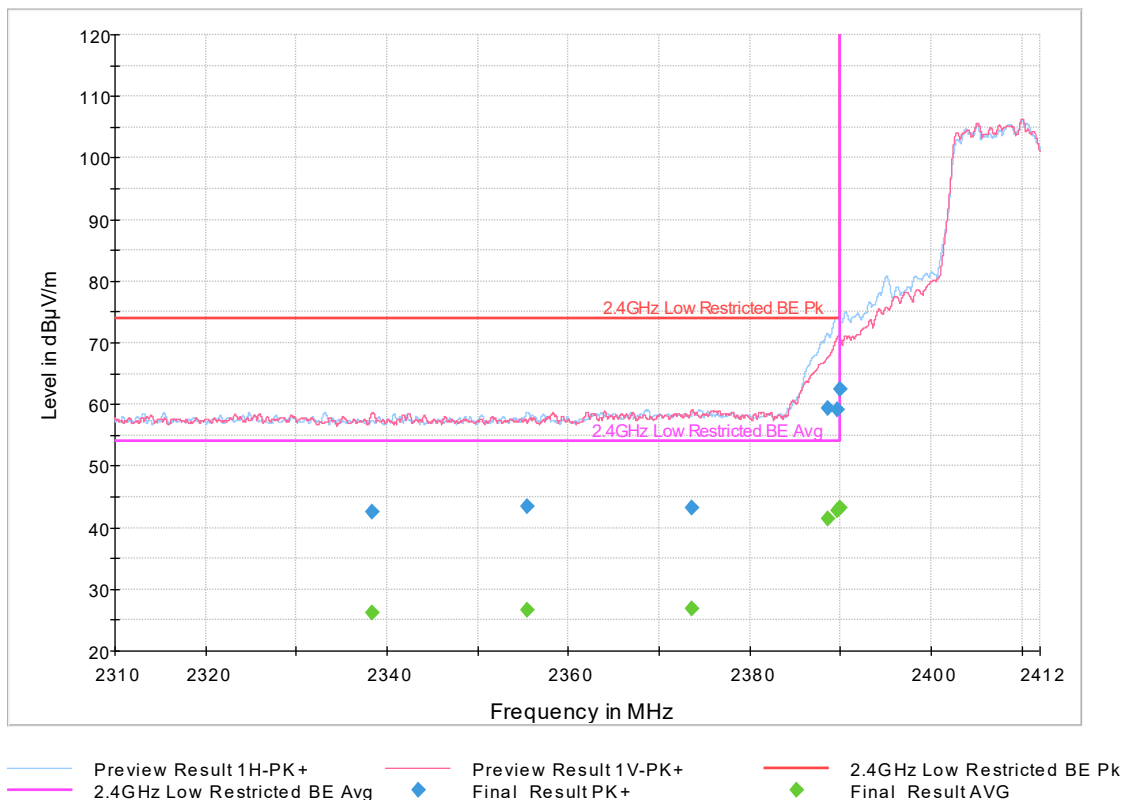
Plot 19. Low Bandedge 802.11n Mode, Low Channel

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB/m)	Raw Rec (dBμV)
2483.50	60.68	---	74.00	13.32	100.00	100.00	V	46.00	32.80	4.40	0.00	28.30	27.90
2483.50	---	45.95	54.00	8.05	100.00	100.00	V	46.00	32.80	4.40	0.00	28.30	13.20
2485.35	---	44.01	54.00	9.99	100.00	100.00	V	46.00	32.80	4.40	0.00	28.30	11.20
2485.35	59.38	---	74.00	14.62	100.00	100.00	V	46.00	32.80	4.40	0.00	28.30	26.60
2487.54	57.80	---	74.00	16.20	100.00	100.00	V	49.00	32.80	4.40	0.00	28.30	25.00
2487.54	---	40.89	54.00	13.11	100.00	100.00	V	49.00	32.80	4.40	0.00	28.30	8.10
2490.87	51.69	---	74.00	22.31	100.00	100.00	V	46.00	32.80	4.40	0.00	28.30	18.90
2490.87	---	33.16	54.00	20.84	100.00	100.00	V	46.00	32.80	4.40	0.00	28.30	0.40
2495.50	44.56	---	74.00	29.44	100.00	106.00	V	116.00	32.80	4.40	0.00	28.30	11.80
2495.50	---	27.15	54.00	26.85	100.00	106.00	V	116.00	32.80	4.40	0.00	28.30	-5.60
2508.02	---	26.24	54.00	27.76	100.00	338.00	H	88.00	32.80	4.50	0.00	28.40	-6.60
2508.02	42.97	---	74.00	31.03	100.00	338.00	H	88.00	32.80	4.50	0.00	28.40	10.10



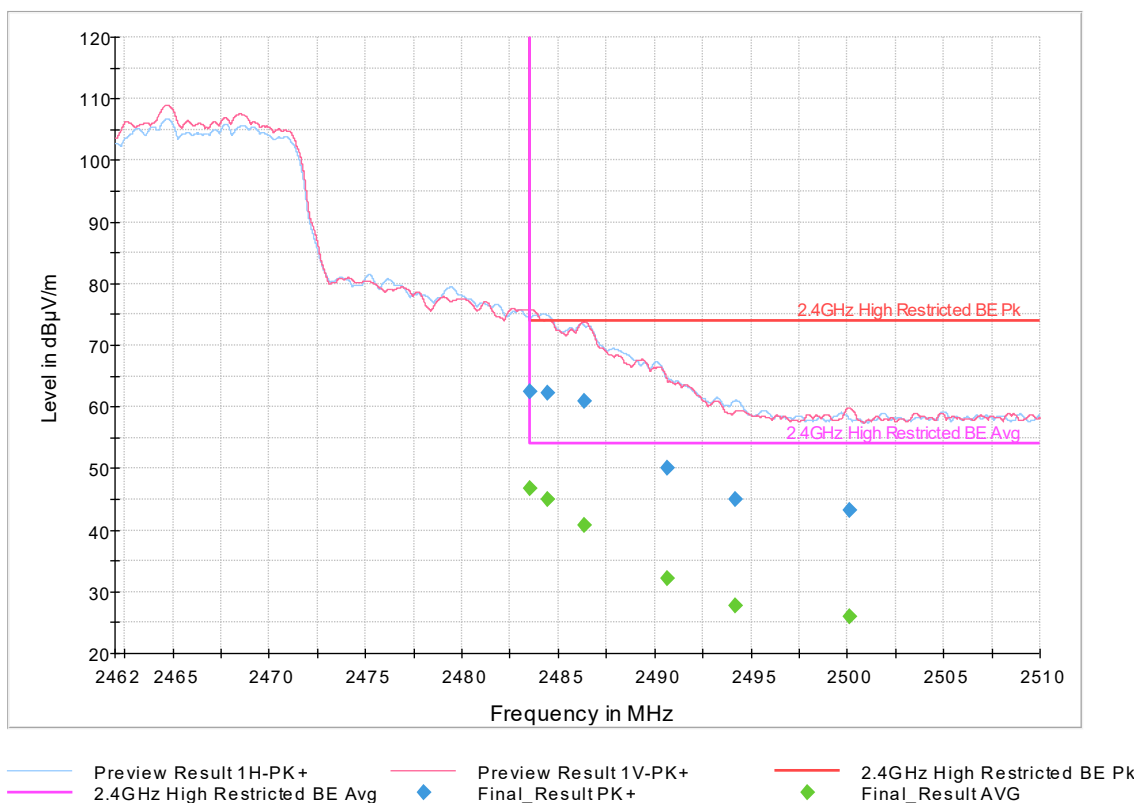
Plot 20. High Bandedge 802.11n Mode, High Channel

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB/m)	Raw Rec (dBμV)
2338.42	42.63	---	74.00	31.37	100.00	100.00	V	0.00	32.40	4.20	0.00	28.20	10.20
2338.42	---	26.22	54.00	27.78	100.00	100.00	V	0.00	32.40	4.20	0.00	28.20	-6.20
2355.48	43.45	---	74.00	30.55	100.00	354.00	H	341.00	32.60	4.30	0.00	28.30	10.90
2355.48	---	26.63	54.00	27.37	100.00	354.00	H	341.00	32.60	4.30	0.00	28.30	-5.90
2373.65	43.12	---	74.00	30.88	100.00	250.00	V	142.00	32.60	4.30	0.00	28.40	10.50
2373.65	---	26.81	54.00	27.19	100.00	250.00	V	142.00	32.60	4.30	0.00	28.40	-5.80
2388.53	---	41.51	54.00	12.49	100.00	100.00	H	123.00	32.90	4.30	0.00	28.60	8.60
2388.53	59.27	---	74.00	14.73	100.00	100.00	H	123.00	32.90	4.30	0.00	28.60	26.40
2389.58	---	42.84	54.00	11.16	100.00	100.00	H	123.00	32.90	4.30	0.00	28.60	10.00
2389.58	59.12	---	74.00	14.88	100.00	100.00	H	123.00	32.90	4.30	0.00	28.60	26.30
2390.00	62.51	---	74.00	11.49	100.00	100.00	H	125.00	32.90	4.30	0.00	28.60	29.60
2390.00	---	43.33	54.00	10.67	100.00	100.00	H	125.00	32.90	4.30	0.00	28.60	10.50



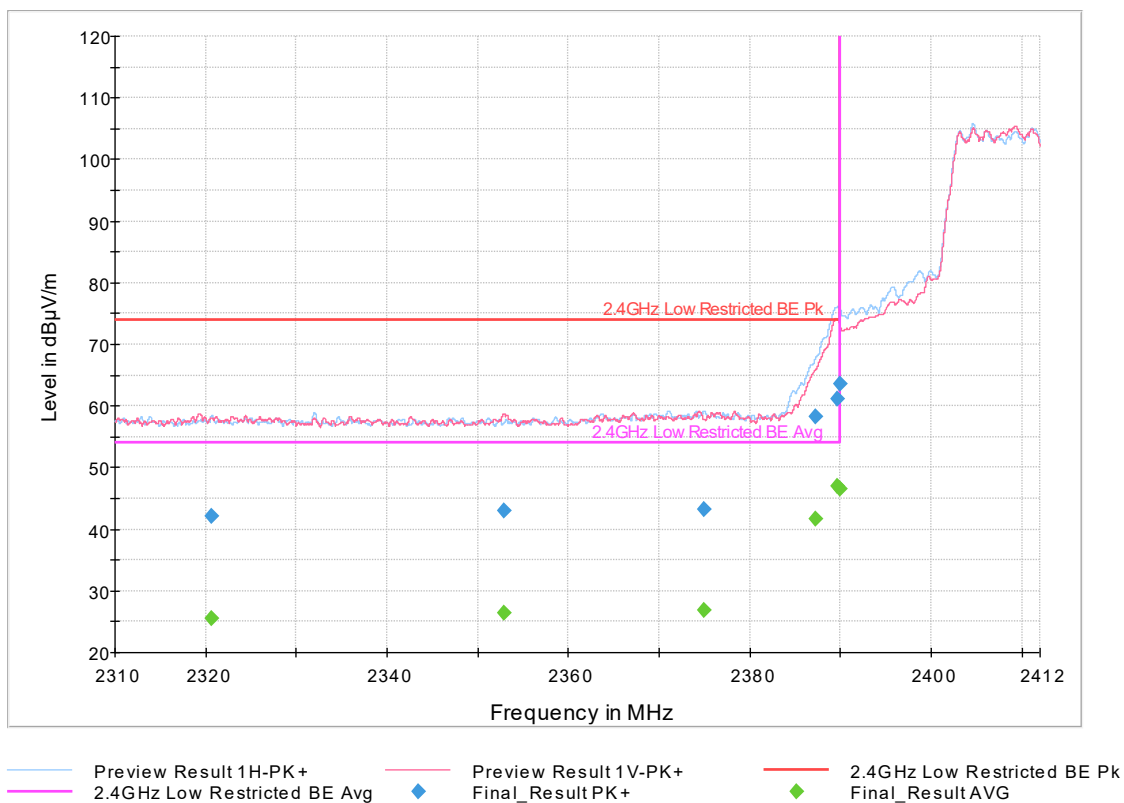
Plot 21. Low Bandedge 802.11ax Mode, Low Channel

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB/m)	Raw Rec (dBμV)
2483.50	62.47	---	74.00	11.53	100.00	100.00	V	47.00	32.80	4.40	0.00	28.30	29.70
2483.50	---	46.88	54.00	7.12	100.00	100.00	V	47.00	32.80	4.40	0.00	28.30	14.10
2484.43	62.23	---	74.00	11.77	100.00	100.00	H	118.00	32.80	4.40	0.00	28.40	29.40
2484.43	---	44.95	54.00	9.05	100.00	100.00	H	118.00	32.80	4.40	0.00	28.40	12.10
2486.35	---	40.81	54.00	13.19	100.00	100.00	V	46.00	32.80	4.40	0.00	28.30	8.00
2486.35	61.00	---	74.00	13.00	100.00	100.00	V	46.00	32.80	4.40	0.00	28.30	28.20
2490.69	50.11	---	74.00	23.89	100.00	153.00	H	158.00	32.80	4.40	0.00	28.40	17.30
2490.69	---	32.24	54.00	21.76	100.00	153.00	H	158.00	32.80	4.40	0.00	28.40	-0.60
2494.19	44.99	---	74.00	29.01	100.00	105.00	H	193.00	32.80	4.40	0.00	28.40	12.20
2494.19	---	27.81	54.00	26.19	100.00	105.00	H	193.00	32.80	4.40	0.00	28.40	-5.00
2500.11	---	25.93	54.00	28.07	100.00	100.00	V	184.00	32.80	4.50	0.00	28.30	-6.80
2500.11	43.32	---	74.00	30.68	100.00	100.00	V	184.00	32.80	4.50	0.00	28.30	10.50



Plot 22. High Bandedge 802.11ax Mode, High Channel

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB/m)	Raw Rec (dBμV)
2320.72	42.13	---	74.00	31.87	100.00	355.00	H	109.00	32.20	4.20	0.00	28.00	9.90
2320.72	---	25.63	54.00	28.37	100.00	355.00	H	109.00	32.20	4.20	0.00	28.00	-6.60
2352.87	---	26.47	54.00	27.53	100.00	150.00	V	133.00	32.50	4.30	0.00	28.30	-6.00
2352.87	43.00	---	74.00	31.00	100.00	150.00	V	133.00	32.50	4.30	0.00	28.30	10.50
2374.97	43.19	---	74.00	30.81	100.00	254.00	H	284.00	32.80	4.30	0.00	28.50	10.40
2374.97	---	26.89	54.00	27.11	100.00	254.00	H	284.00	32.80	4.30	0.00	28.50	-5.90
2387.21	---	41.68	54.00	12.32	100.00	100.00	H	124.00	32.90	4.30	0.00	28.60	8.80
2387.21	58.38	---	74.00	15.62	100.00	100.00	H	124.00	32.90	4.30	0.00	28.60	25.50
2389.69	61.07	---	74.00	12.93	100.00	100.00	H	121.00	32.90	4.30	0.00	28.60	28.20
2389.69	---	46.90	54.00	7.10	100.00	100.00	H	121.00	32.90	4.30	0.00	28.60	14.00
2390.00	63.57	---	74.00	10.43	100.00	100.00	H	121.00	32.90	4.30	0.00	28.60	30.70
2390.00	---	46.50	54.00	7.50	100.00	100.00	H	121.00	32.90	4.30	0.00	28.60	13.60



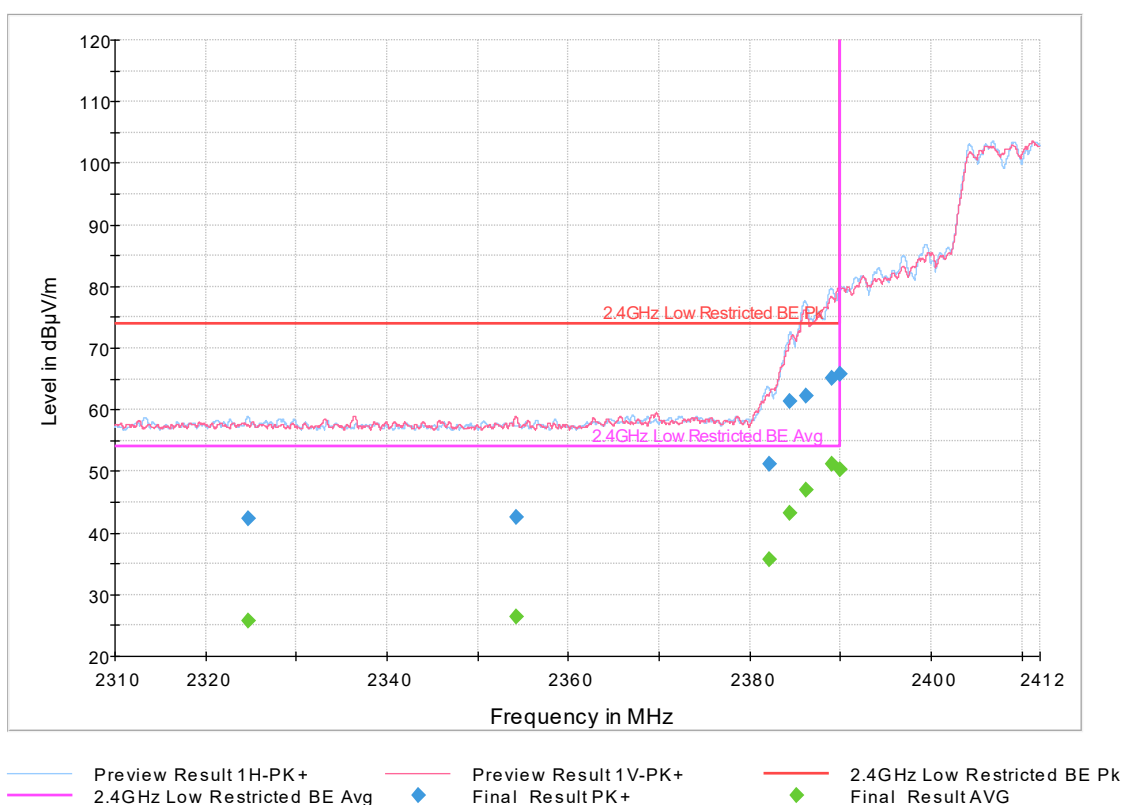
Plot 23. Low Bandedge 802.11ac Mode, Low Channel

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB/m)	Raw Rec (dBμV)
2483.50	62.85	---	74.00	11.15	100.00	100.00	H	117.00	32.80	4.40	0.00	28.40	30.00
2483.50	---	48.96	54.00	5.04	100.00	100.00	H	117.00	32.80	4.40	0.00	28.40	16.10
2484.43	---	46.06	54.00	7.94	100.00	104.00	H	61.00	32.80	4.40	0.00	28.40	13.20
2484.43	62.22	---	74.00	11.78	100.00	104.00	H	61.00	32.80	4.40	0.00	28.40	29.40
2485.88	62.35	---	74.00	11.65	100.00	104.00	H	62.00	32.80	4.40	0.00	28.40	29.50
2485.88	---	45.51	54.00	8.49	100.00	104.00	H	62.00	32.80	4.40	0.00	28.40	12.70
2491.45	52.87	---	74.00	21.13	100.00	100.00	V	46.00	32.80	4.40	0.00	28.30	20.10
2491.45	---	36.19	54.00	17.81	100.00	100.00	V	46.00	32.80	4.40	0.00	28.30	3.40
2495.83	---	27.01	54.00	26.99	100.00	334.00	H	184.00	32.80	4.50	0.00	28.40	-5.80
2495.83	43.06	---	74.00	30.94	100.00	334.00	H	184.00	32.80	4.50	0.00	28.40	10.30
2505.15	42.49	---	74.00	31.51	100.00	250.00	H	53.00	32.80	4.50	0.00	28.40	9.70
2505.15	---	26.11	54.00	27.89	100.00	250.00	H	53.00	32.80	4.50	0.00	28.40	-6.70

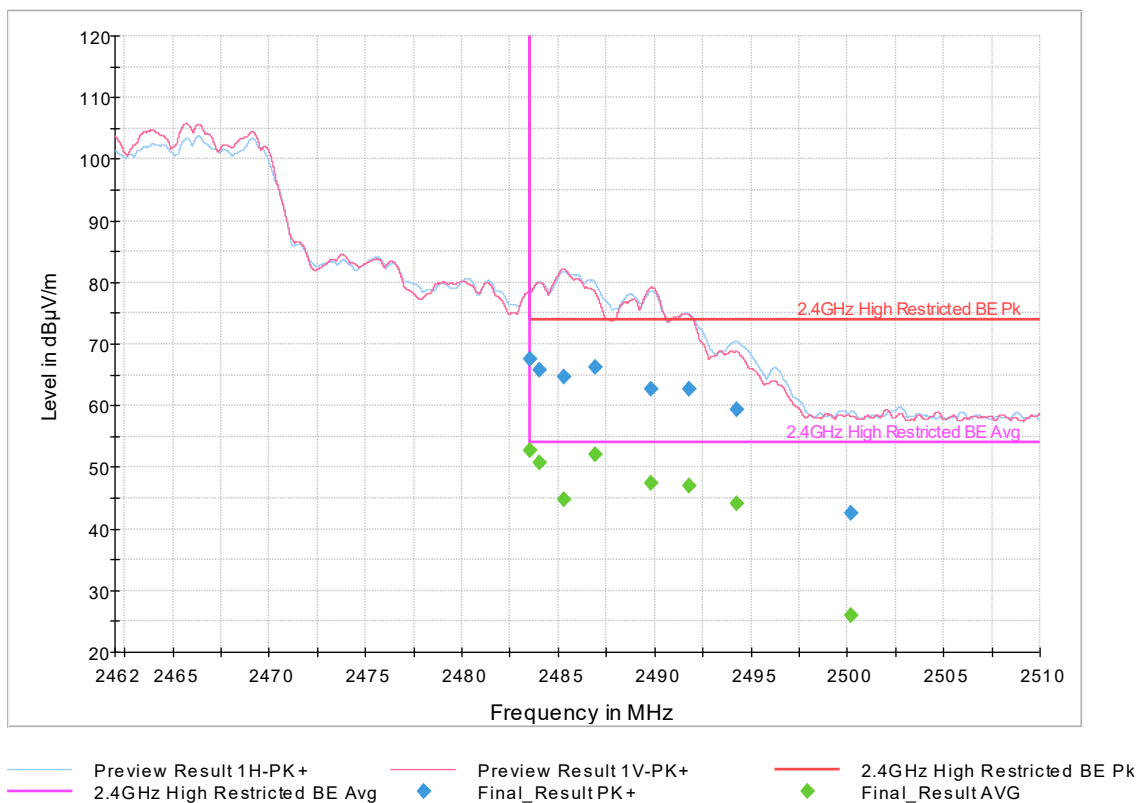


Plot 24. High Bandedge 802.11ac Mode, High Channel

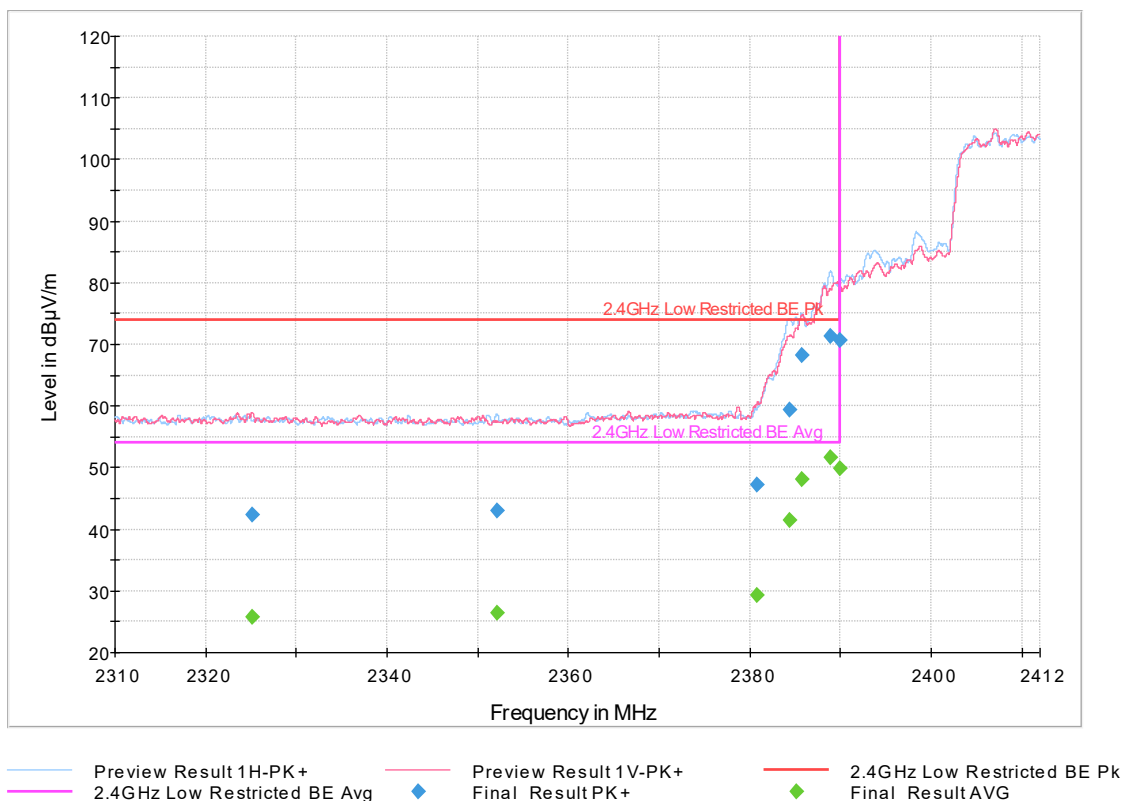
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB/m)	Raw Rec (dBμV)
2324.67	---	25.77	54.00	28.23	100.00	250.00	H	35.00	32.30	4.20	0.00	28.00	-6.50
2324.67	42.31	---	74.00	31.69	100.00	250.00	H	35.00	32.30	4.20	0.00	28.00	10.00
2354.21	---	26.51	54.00	27.49	100.00	350.00	V	94.00	32.50	4.30	0.00	28.30	-6.00
2354.21	42.48	---	74.00	31.52	100.00	350.00	V	94.00	32.50	4.30	0.00	28.30	10.00
2382.08	51.09	---	74.00	22.92	100.00	100.00	H	120.00	32.80	4.30	0.00	28.60	18.20
2382.08	---	35.70	54.00	18.30	100.00	100.00	H	120.00	32.80	4.30	0.00	28.60	2.80
2384.39	61.37	---	74.00	12.63	100.00	100.00	H	119.00	32.90	4.30	0.00	28.60	28.50
2384.39	---	43.30	54.00	10.70	100.00	100.00	H	119.00	32.90	4.30	0.00	28.60	10.40
2386.13	62.31	---	74.00	11.69	100.00	100.00	H	121.00	32.90	4.30	0.00	28.60	29.40
2386.13	---	46.95	54.00	7.05	100.00	100.00	H	121.00	32.90	4.30	0.00	28.60	14.10
2388.99	---	51.16	54.00	2.84	100.00	100.00	H	119.00	32.90	4.30	0.00	28.60	18.30
2388.99	65.17	---	74.00	8.83	100.00	100.00	H	119.00	32.90	4.30	0.00	28.60	32.30
2389.99	65.89	---	74.00	8.11	100.00	100.00	V	43.00	32.70	4.30	0.00	28.40	33.20
2389.99	---	50.41	54.00	3.59	100.00	100.00	V	43.00	32.70	4.30	0.00	28.40	17.70



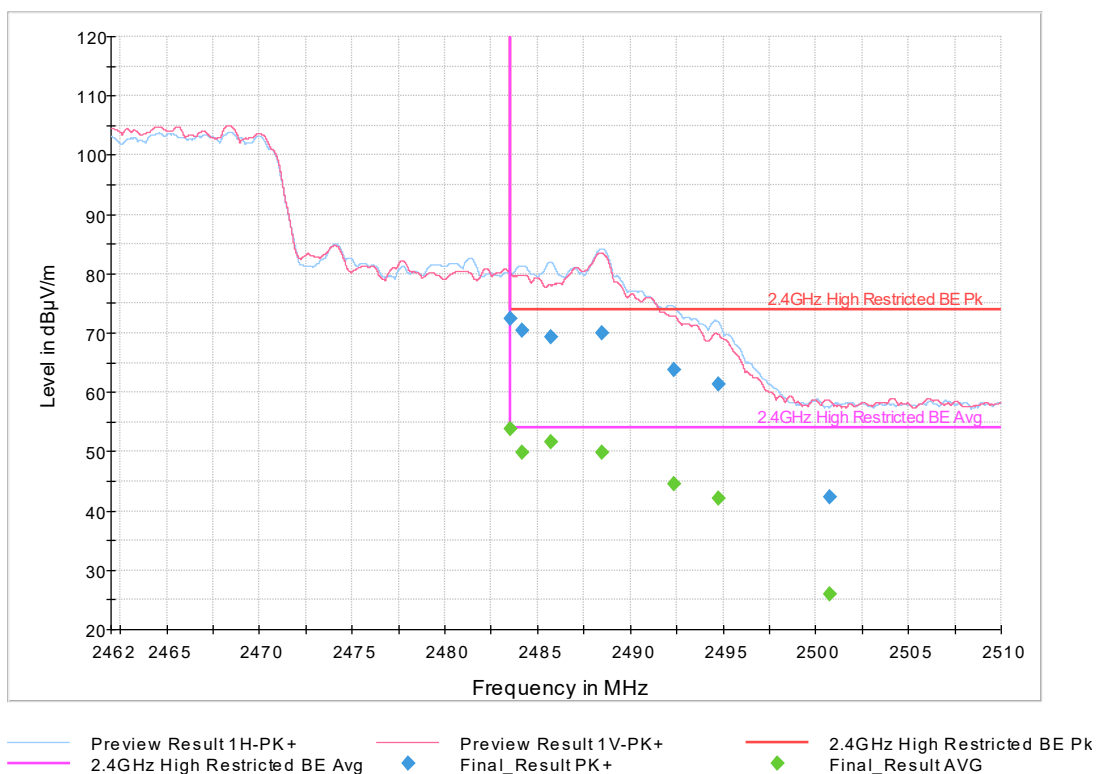
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB/m)	Raw Rec (dBμV)
2483.51	67.59	---	74.00	6.41	100.00	103.00	H	61.00	32.80	4.40	0.00	28.40	34.70
2483.51	---	52.85	54.00	1.15	100.00	103.00	H	61.00	32.80	4.40	0.00	28.40	20.00
2484.03	65.75	---	74.00	8.25	100.00	108.00	H	62.00	32.80	4.40	0.00	28.40	32.90
2484.03	---	50.86	54.00	3.14	100.00	108.00	H	62.00	32.80	4.40	0.00	28.40	18.00
2485.27	64.61	---	74.00	9.39	100.00	103.00	V	44.00	32.80	4.40	0.00	28.30	31.80
2485.27	---	44.67	54.00	9.33	100.00	103.00	V	44.00	32.80	4.40	0.00	28.30	11.90
2486.91	---	52.06	54.00	1.94	100.00	104.00	H	58.00	32.80	4.40	0.00	28.40	19.20
2486.91	66.23	---	74.00	7.77	100.00	104.00	H	58.00	32.80	4.40	0.00	28.40	33.40
2489.84	---	47.36	54.00	6.64	100.00	103.00	V	44.00	32.80	4.40	0.00	28.30	14.60
2489.84	62.67	---	74.00	11.33	100.00	103.00	V	44.00	32.80	4.40	0.00	28.30	29.90
2491.79	---	47.04	54.00	6.96	100.00	105.00	H	61.00	32.80	4.40	0.00	28.40	14.20
2491.79	62.72	---	74.00	11.28	100.00	105.00	H	61.00	32.80	4.40	0.00	28.40	29.90
2494.27	---	44.12	54.00	9.88	100.00	103.00	H	62.00	32.80	4.40	0.00	28.40	11.30
2494.27	59.42	---	74.00	14.58	100.00	103.00	H	62.00	32.80	4.40	0.00	28.40	26.60
2500.16	---	25.98	54.00	28.02	100.00	258.00	H	109.00	32.80	4.50	0.00	28.30	-6.80
2500.16	42.63	---	74.00	31.37	100.00	258.00	H	109.00	32.80	4.50	0.00	28.30	9.80



Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB/m)	Raw Rec (dBμV)
2325.14	42.36	---	74.00	31.64	100.00	335.00	V	-5.00	32.30	4.20	0.00	28.10	10.10
2325.14	---	25.74	54.00	28.26	100.00	335.00	V	-5.00	32.30	4.20	0.00	28.10	-6.60
2352.10	---	26.42	54.00	27.58	100.00	234.00	H	76.00	32.50	4.30	0.00	28.30	-6.10
2352.10	42.97	---	74.00	31.03	100.00	234.00	H	76.00	32.50	4.30	0.00	28.30	10.40
2380.86	47.16	---	74.00	26.84	100.00	100.00	V	119.00	32.70	4.30	0.00	28.40	14.50
2380.86	---	29.37	54.00	24.63	100.00	100.00	V	119.00	32.70	4.30	0.00	28.40	-3.30
2384.33	---	41.48	54.00	12.52	100.00	100.00	H	120.00	32.90	4.30	0.00	28.60	8.60
2384.33	59.44	---	74.00	14.56	100.00	100.00	H	120.00	32.90	4.30	0.00	28.60	26.60
2385.77	---	48.03	54.00	5.97	100.00	100.00	H	120.00	32.90	4.30	0.00	28.60	15.20
2385.77	68.25	---	74.00	5.75	100.00	100.00	H	120.00	32.90	4.30	0.00	28.60	35.40
2388.91	71.39	---	74.00	2.61	100.00	100.00	H	124.00	32.90	4.30	0.00	28.60	38.50
2388.91	---	51.67	54.00	2.33	100.00	100.00	H	124.00	32.90	4.30	0.00	28.60	18.80
2389.99	70.76	---	74.00	3.24	100.00	100.00	H	120.00	32.90	4.30	0.00	28.60	37.90
2389.99	---	49.91	54.00	4.09	100.00	100.00	H	120.00	32.90	4.30	0.00	28.60	17.00

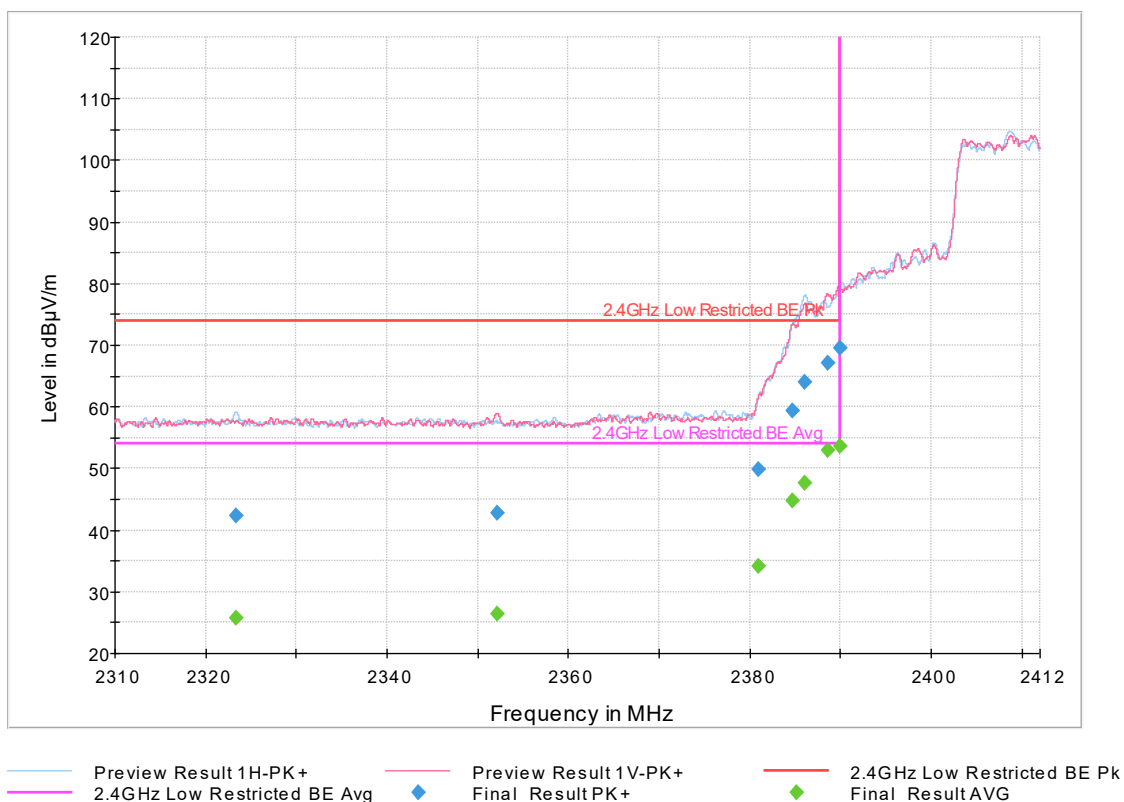


Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB/m)	Raw Rec (dBμV)
2483.50	72.36	---	74.00	1.64	100.00	100.00	V	49.00	32.80	4.40	0.00	28.30	39.60
2483.50	---	53.77	54.00	0.23	100.00	100.00	V	49.00	32.80	4.40	0.00	28.30	21.00
2484.17	---	49.78	54.00	4.22	100.00	105.00	H	59.00	32.80	4.40	0.00	28.40	16.90
2484.17	70.45	---	74.00	3.55	100.00	105.00	H	59.00	32.80	4.40	0.00	28.40	37.60
2485.69	---	51.62	54.00	2.38	100.00	103.00	H	118.00	32.80	4.40	0.00	28.40	18.80
2485.69	69.28	---	74.00	4.72	100.00	103.00	H	118.00	32.80	4.40	0.00	28.40	36.40
2488.48	---	49.79	54.00	4.21	100.00	103.00	H	63.00	32.80	4.40	0.00	28.40	17.00
2488.48	70.06	---	74.00	3.94	100.00	103.00	H	63.00	32.80	4.40	0.00	28.40	37.20
2492.34	---	44.62	54.00	9.38	100.00	105.00	H	59.00	32.80	4.40	0.00	28.40	11.80
2492.34	63.72	---	74.00	10.28	100.00	105.00	H	59.00	32.80	4.40	0.00	28.40	30.90
2494.75	---	42.08	54.00	11.92	100.00	105.00	H	59.00	32.80	4.40	0.00	28.40	9.30
2494.75	61.39	---	74.00	12.61	100.00	105.00	H	59.00	32.80	4.40	0.00	28.40	28.60
2500.73	---	25.97	54.00	28.03	100.00	100.00	V	198.00	32.80	4.50	0.00	28.30	-6.80
2500.73	42.40	---	74.00	31.60	100.00	100.00	V	198.00	32.80	4.50	0.00	28.30	9.60

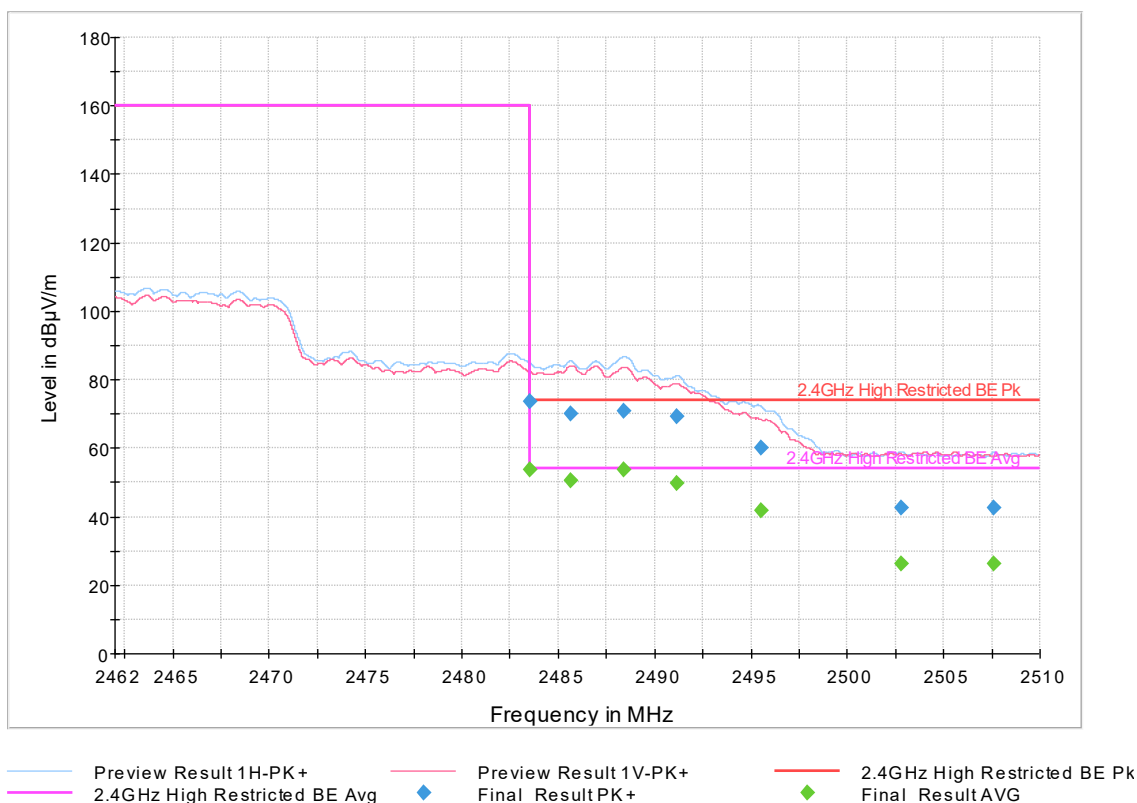


Plot 28. High Bandedge 802.11ax 40 MHz Mode, High Channel

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB/m)	Raw Rec (dBμV)
2323.34	42.34	---	74.00	31.66	100.00	253.00	H	53.00	32.30	4.20	0.00	28.00	10.10
2323.34	---	25.66	54.00	28.34	100.00	253.00	H	53.00	32.30	4.20	0.00	28.00	-6.60
2352.11	42.83	---	74.00	31.17	100.00	250.00	V	-1.00	32.50	4.30	0.00	28.30	10.30
2352.11	---	26.40	54.00	27.60	100.00	250.00	V	-1.00	32.50	4.30	0.00	28.30	-6.10
2380.93	49.94	---	74.00	24.06	100.00	100.00	V	42.00	32.70	4.30	0.00	28.40	17.20
2380.93	---	34.21	54.00	19.79	100.00	100.00	V	42.00	32.70	4.30	0.00	28.40	1.50
2384.63	59.35	---	74.00	14.65	100.00	105.00	H	117.00	32.90	4.30	0.00	28.60	26.50
2384.63	---	44.88	54.00	9.12	100.00	105.00	H	117.00	32.90	4.30	0.00	28.60	12.00
2386.10	---	47.74	54.00	6.26	100.00	103.00	H	117.00	32.90	4.30	0.00	28.60	14.90
2386.10	64.01	---	74.00	9.99	100.00	103.00	H	117.00	32.90	4.30	0.00	28.60	31.10
2388.57	---	52.91	54.00	1.09	100.00	100.00	V	44.00	32.70	4.30	0.00	28.40	20.20
2388.57	67.05	---	74.00	6.95	100.00	100.00	V	44.00	32.70	4.30	0.00	28.40	34.30
2390.00	---	53.60	54.00	0.40	100.00	104.00	H	117.00	32.90	4.30	0.00	28.60	20.70
2390.00	69.45	---	74.00	4.55	100.00	104.00	H	117.00	32.90	4.30	0.00	28.60	36.60



Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB/m)	Raw Rec (dBμV)
2483.56	73.87	---	74.00	0.13	100.00	108.00	H	67.00	32.80	4.40	0.00	28.40	41.00
2483.56	---	53.60	54.00	0.40	100.00	108.00	H	67.00	32.80	4.40	0.00	28.40	20.80
2485.64	---	50.65	54.00	3.35	100.00	108.00	H	127.00	32.80	4.40	0.00	28.40	17.80
2485.64	70.00	---	74.00	4.00	100.00	108.00	H	127.00	32.80	4.40	0.00	28.40	37.20
2488.43	---	53.72	54.00	0.28	100.00	106.00	H	69.00	32.80	4.40	0.00	28.40	20.90
2488.43	70.96	---	74.00	3.04	100.00	106.00	H	69.00	32.80	4.40	0.00	28.40	38.10
2491.16	---	49.68	54.00	4.32	100.00	103.00	H	69.00	32.80	4.40	0.00	28.40	16.90
2491.16	69.47	---	74.00	4.53	100.00	103.00	H	69.00	32.80	4.40	0.00	28.40	36.70
2495.50	60.22	---	74.00	13.78	100.00	100.00	H	58.00	32.80	4.40	0.00	28.40	27.40
2495.50	---	42.01	54.00	11.99	100.00	100.00	H	58.00	32.80	4.40	0.00	28.40	9.20
2502.81	---	26.16	54.00	27.84	100.00	155.00	H	37.00	32.80	4.50	0.00	28.40	-6.70
2502.81	42.72	---	74.00	31.28	100.00	155.00	H	37.00	32.80	4.50	0.00	28.40	9.90
2507.61	---	26.20	54.00	27.80	100.00	350.00	H	118.00	32.80	4.50	0.00	28.40	-6.60
2507.61	42.44	---	74.00	31.56	100.00	350.00	H	118.00	32.80	4.50	0.00	28.40	9.60



4.6 Transmitter Spurious Emissions

Transmitter spurious emissions are emissions outside the frequency range of the equipment when the equipment is in transmit mode; per requirement of CFR47 15.205, 15.209, 15.247(d).

4.6.1 Test Methodology

4.6.1.1 Preliminary Test

A test program that controls instrumentation and data logging was used to automate the preliminary RF emission test procedure. The frequency range of interest was divided into sub-ranges to yield a frequency resolution of approximately 120 kHz and provide a reading at each frequency for no more than 12° of turntable rotation. For each frequency sub-range the turntable was rotated 360° while peak emission data was recorded and plotted over the frequency range of interest in horizontal and vertical antenna polarization's.

Preliminary emission profile testing was performed inside the anechoic chamber. The EUT was placed on a 1.0m x 1.5m non-conductive table 80cm (<1 GHz) and 150cm (>1 GHz) above the floor. The EUT was positioned as shown in the setup photographs. The receiving antenna was placed at a distance of 3m at a fixed height of 1m. Measurement equipment was located outside of the chamber. A video camera was placed inside the chamber to view the EUT.

Pre-scans were performed to determine the worst data rate / chains.

4.6.1.2 Final Test

For each frequency measured, the peak emission was maximized by manipulating the receiving antenna from 1 to 4 meters above the ground plane and placing it at the position that produced the maximum signal strength reading. The turntable was then rotated through 360° while observing the peak signal and placing the EUT at the position that produced maximum radiation. The six highest emissions relative to the limit were measured unless such emissions were more than 20 dB below the limit. If less than six emissions are within 20 dB of the limit, then the noise level of the receiver is measured at frequencies where emissions are expected. Multiples of all oscillator and microprocessor frequencies were also checked.

Final testing was performed on an NSA compliant test site. The EUT was placed on a 1.0m x 1.5m non-conductive table 80cm (<1 GHz) and 150cm (>1 GHz) above the ground plane. The placement of EUT and cables were the same as for preliminary testing and is shown in the setup photographs.

4.6.1.3 Deviations

None.

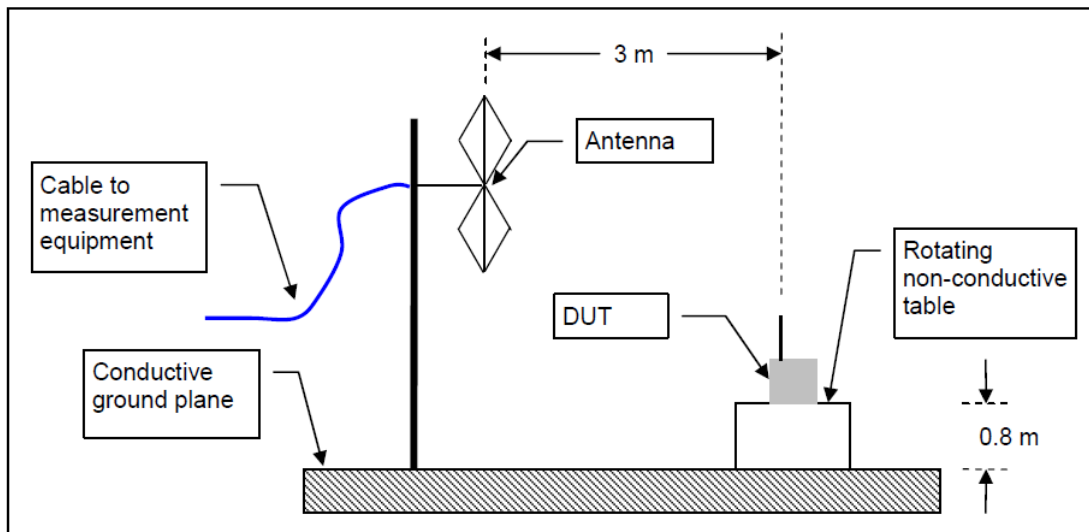
4.6.2 Test Setup:

All modes were tested in 2x2 configuration since all antenna configurations use the same power settings as 2x2 MIMO mode.

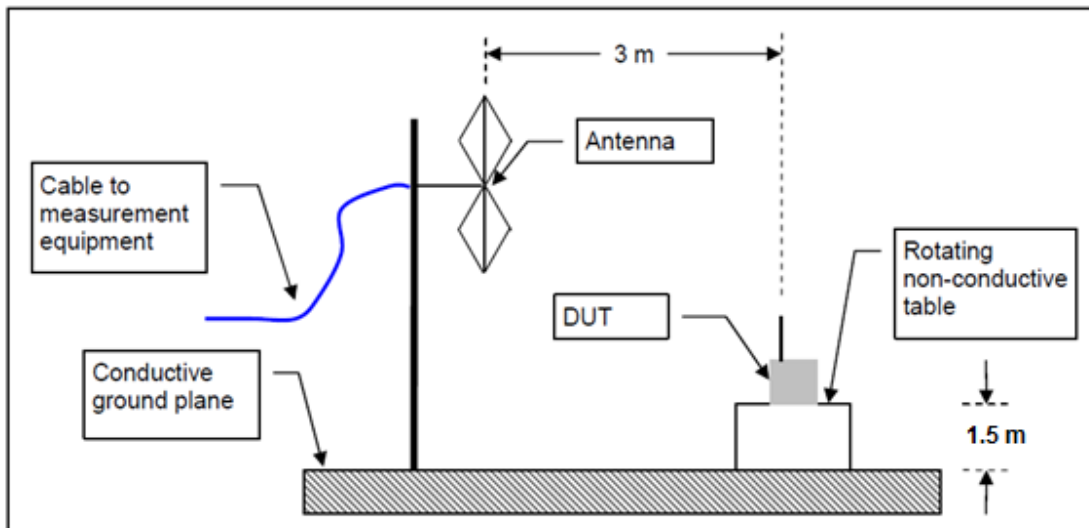
4.6.2.1 CDD Mode

The DUT was stimulated by manufacturer provided test software that is not available to the end user.

30MHz-1GHz



1-26GHz



4.6.3 Transmitter Spurious Emission Limit

The spurious emissions of the transmitter shall not exceed the values in CFR47 Part 15.205, 15.209: 2015.

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490.....	2400/F (kHz)	300
0.490-1.705.....	24000/F (kHz)	30
1.705-30.0.....	30	30
30-88.....	100 **	3
88-216.....	150 **	3
216-960.....	200 **	3
Above 960.....	500	3

The final measurement data was taken under the worst case operating modes, configurations, and/or cable positions. It also reflects the results including any modifications and/or special accessories listed in Sections 1.4 and test plan.

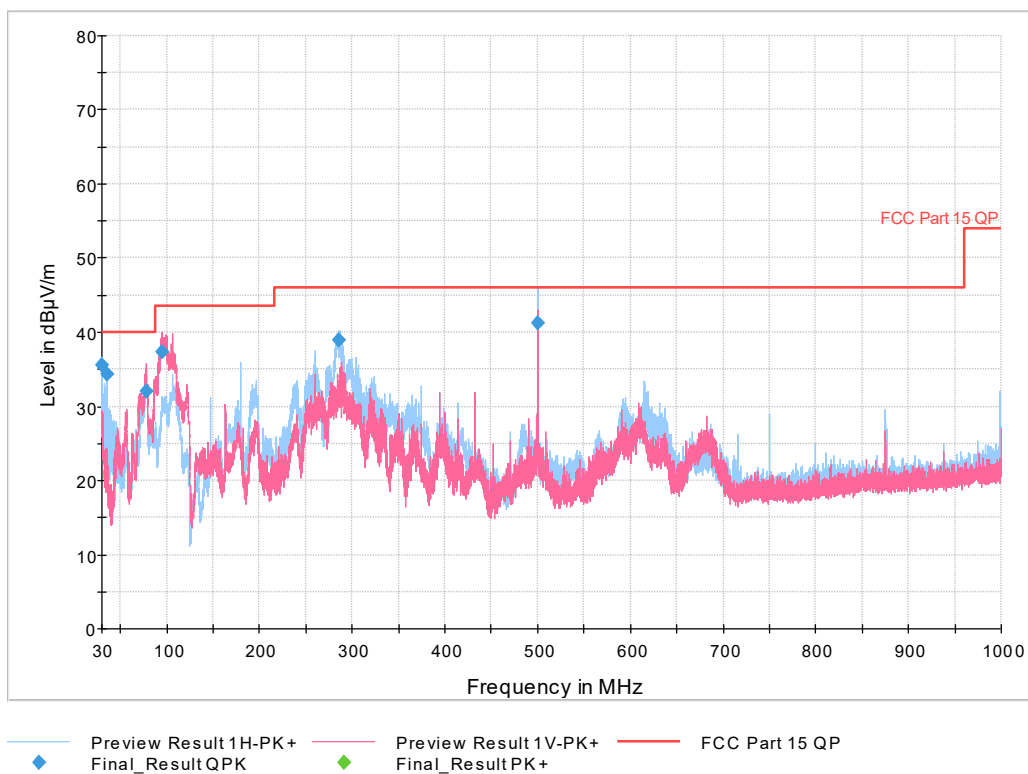
As originally tested, the EUT was found to be compliant to the requirements of the test standard(s).

4.6.4 Non-BF Test Results

4.6.4.1 Plots

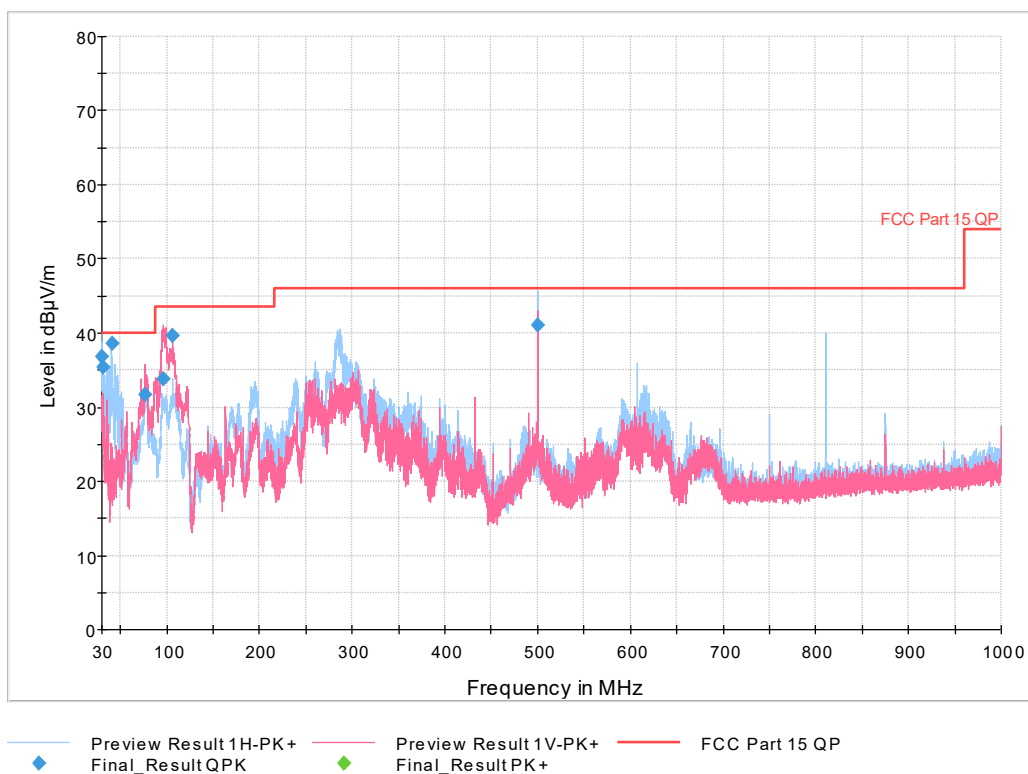
Note: Below 30 MHz was investigated and no emissions was found above noise floor.

Frequency (MHz)	QuasiPeak (dBμV/m)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
30.24	35.61	---	40.00	4.39	10000.00	120.00	100.00	H	67.00	-13.20
35.60	34.40	---	40.00	5.60	10000.00	120.00	100.00	H	67.00	-12.30
77.95	32.09	---	40.00	7.91	10000.00	120.00	105.00	V	24.00	-17.10
95.43	37.36	---	43.52	6.16	10000.00	120.00	103.00	V	175.00	-12.20
285.05	38.96	---	46.02	7.06	10000.00	120.00	104.00	H	125.00	-10.90
500.01	41.15	---	46.02	4.87	10000.00	120.00	153.00	H	-2.00	-6.20



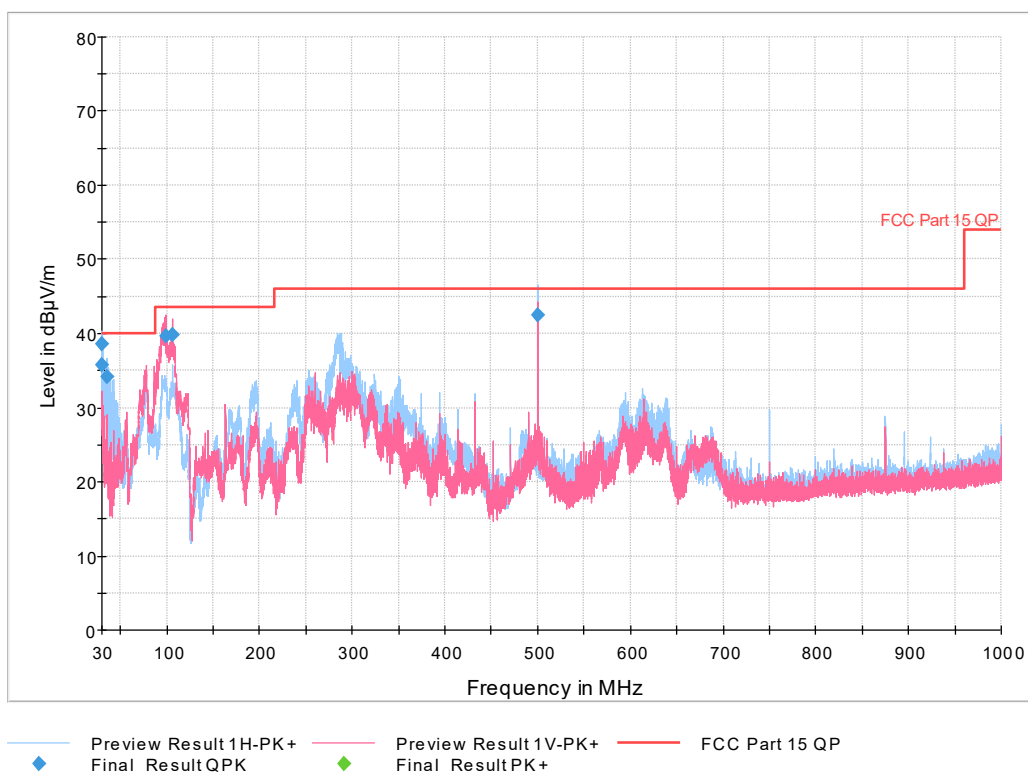
Plot 31. 30MHz-1GHz 802.11g Mode, 2412 MHz

Frequency (MHz)	QuasiPeak (dBμV/m)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
30.00	36.82	---	40.00	3.18	10000.00	120.00	100.00	H	72.00	-13.20
30.95	35.45	---	40.00	4.55	10000.00	120.00	100.00	H	29.00	-13.30
40.61	38.64	---	40.00	1.36	10000.00	120.00	100.00	H	72.00	-10.70
76.87	31.67	---	40.00	8.33	10000.00	120.00	155.00	V	118.00	-17.00
96.45	33.89	---	43.52	9.63	10000.00	120.00	103.00	V	176.00	-12.00
105.76	39.61	---	43.52	3.91	10000.00	120.00	100.00	V	-5.00	-11.50
500.01	41.05	---	46.02	4.97	10000.00	120.00	154.00	H	-5.00	-6.20



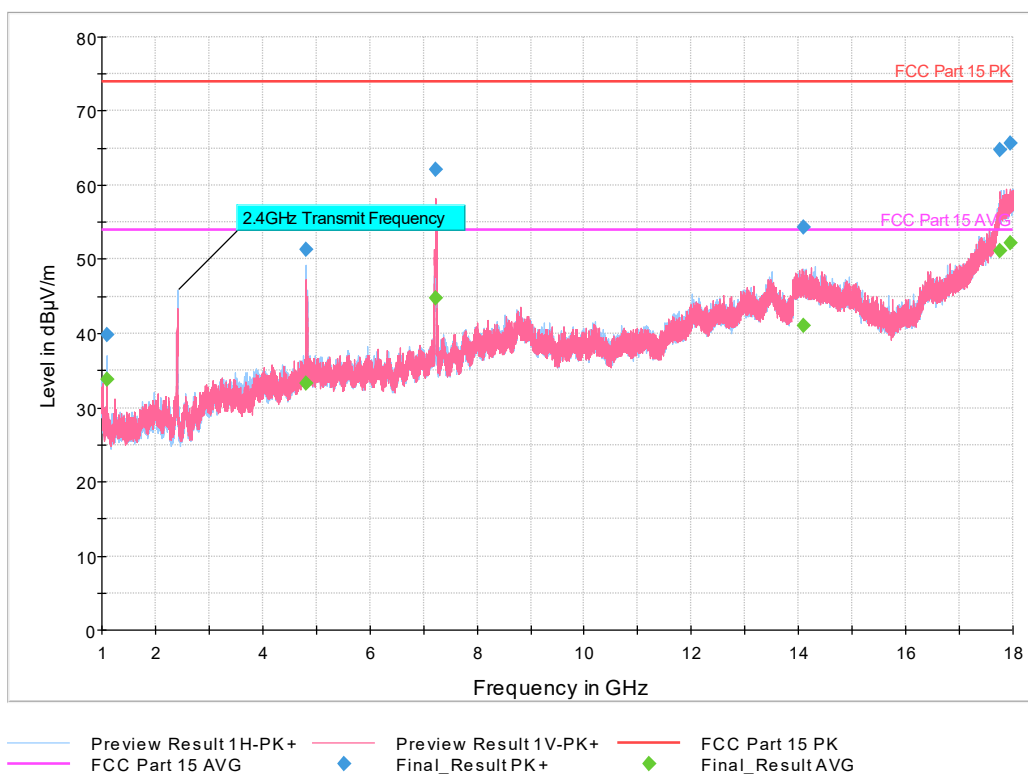
Plot 32. 30MHz-1GHz 802.11g Mode, 2437 MHz

Frequency (MHz)	QuasiPeak (dBµV/m)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
30.26	38.61	---	40.00	1.39	10000.00	120.00	100.00	H	69.00	-13.20
30.63	35.83	---	40.00	4.17	10000.00	120.00	100.00	H	69.00	-13.20
35.33	34.11	---	40.00	5.89	10000.00	120.00	100.00	H	105.00	-12.40
99.24	39.66	---	43.52	3.86	10000.00	120.00	100.00	V	180.00	-11.40
105.75	39.90	---	43.52	3.62	10000.00	120.00	100.00	V	-5.00	-11.50
500.00	42.45	---	46.02	3.57	10000.00	120.00	154.00	H	-5.00	-6.20



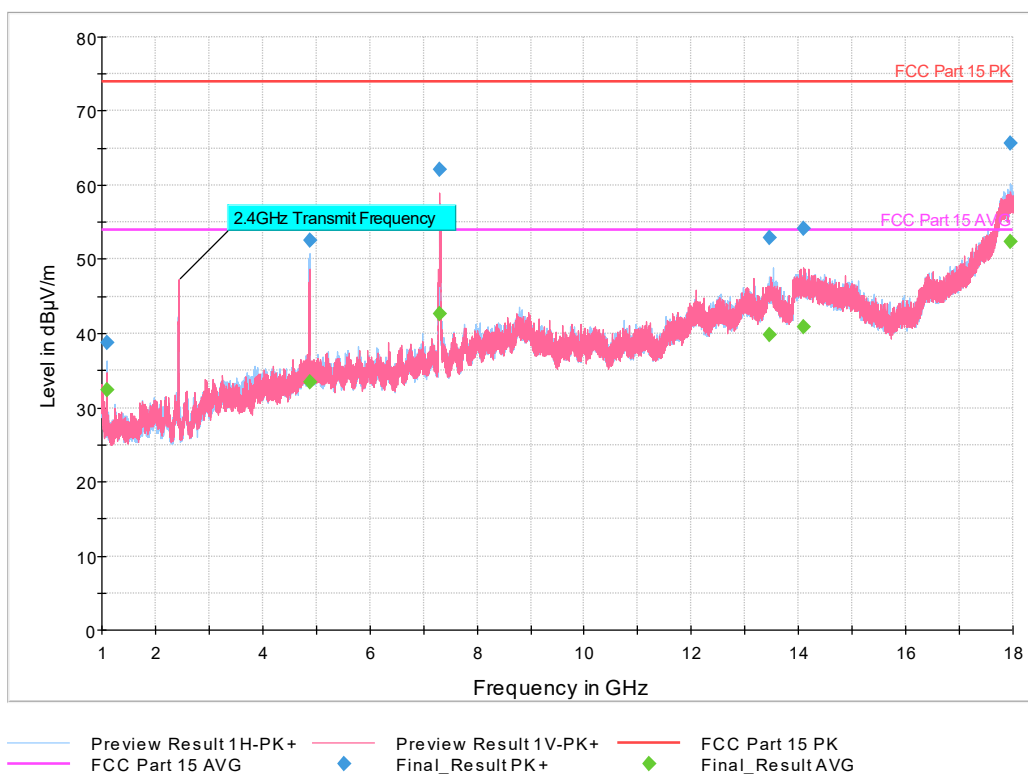
Plot 33. 30MHz-1GHz 802.11g Mode, 2462 MHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1093.70	39.77	---	74.00	34.23	1000.00	100.00	H	224.00	-7.60
1093.70	---	33.80	54.00	20.20	1000.00	100.00	H	224.00	-7.60
4815.86	51.34	---	74.00	22.66	1000.00	150.00	H	101.00	5.90
4815.86	---	33.22	54.00	20.78	1000.00	150.00	H	101.00	5.90
7235.72	---	44.71	54.00	9.29	1000.00	105.00	V	91.00	11.00
7235.72	62.15	---	74.00	11.85	1000.00	105.00	V	91.00	11.00
14100.97	54.32	---	74.00	19.68	1000.00	353.00	H	240.00	21.30
14100.97	---	41.01	54.00	12.99	1000.00	353.00	H	240.00	21.30
17767.50	---	51.15	54.00	2.85	1000.00	355.00	V	136.00	30.70
17767.50	64.73	---	74.00	9.27	1000.00	355.00	V	136.00	30.70
17953.42	65.64	---	74.00	8.36	1000.00	106.00	V	326.00	31.90
17953.42	---	52.29	54.00	1.71	1000.00	106.00	V	326.00	31.90



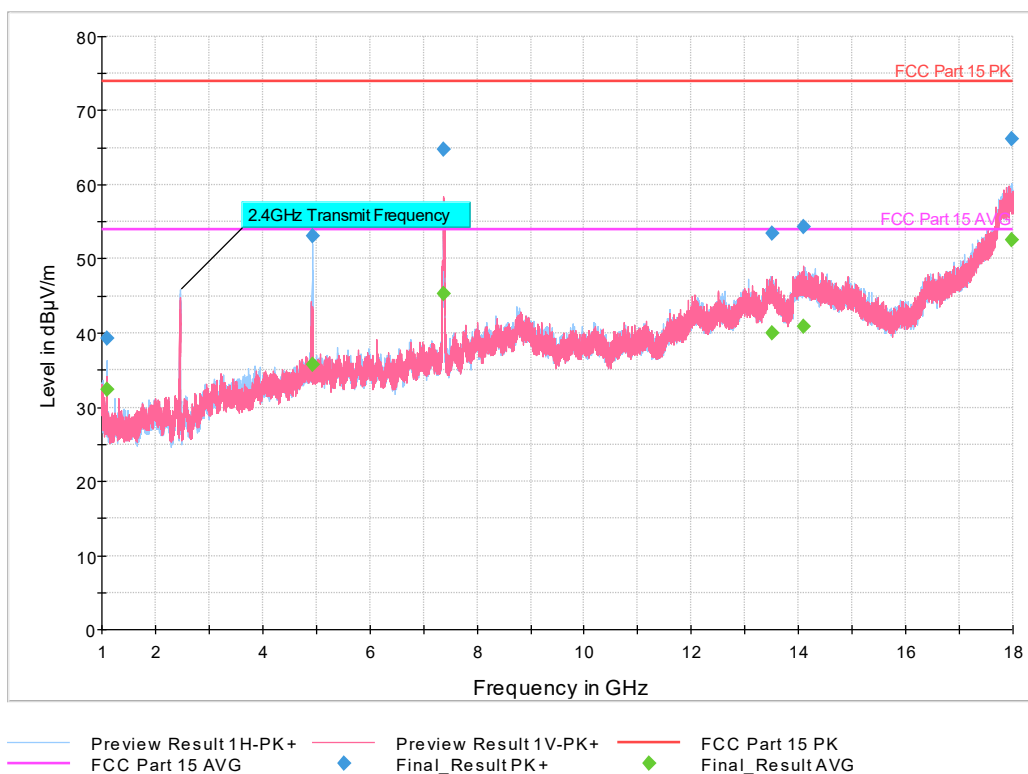
Plot 34. 1-18GHz 802.11g Mode, 2412 MHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1093.50	---	32.34	54.00	21.66	1000.00	100.00	H	223.00	-7.60
1093.50	38.82	---	74.00	35.18	1000.00	100.00	H	223.00	-7.60
4871.54	52.57	---	74.00	21.43	1000.00	250.00	H	171.00	5.80
4871.54	---	33.48	54.00	20.52	1000.00	250.00	H	171.00	5.80
7308.32	62.08	---	74.00	11.92	1000.00	253.00	V	48.00	11.20
7308.32	---	42.68	54.00	11.32	1000.00	253.00	V	48.00	11.20
13449.72	---	39.88	54.00	14.12	1000.00	350.00	H	107.00	20.90
13449.72	52.95	---	74.00	21.05	1000.00	350.00	H	107.00	20.90
14080.00	54.25	---	74.00	19.75	1000.00	350.00	V	82.00	21.10
14080.00	---	40.89	54.00	13.11	1000.00	350.00	V	82.00	21.10
17947.12	65.66	---	74.00	8.34	1000.00	100.00	H	318.00	31.90
17947.12	---	52.37	54.00	1.63	1000.00	100.00	H	318.00	31.90



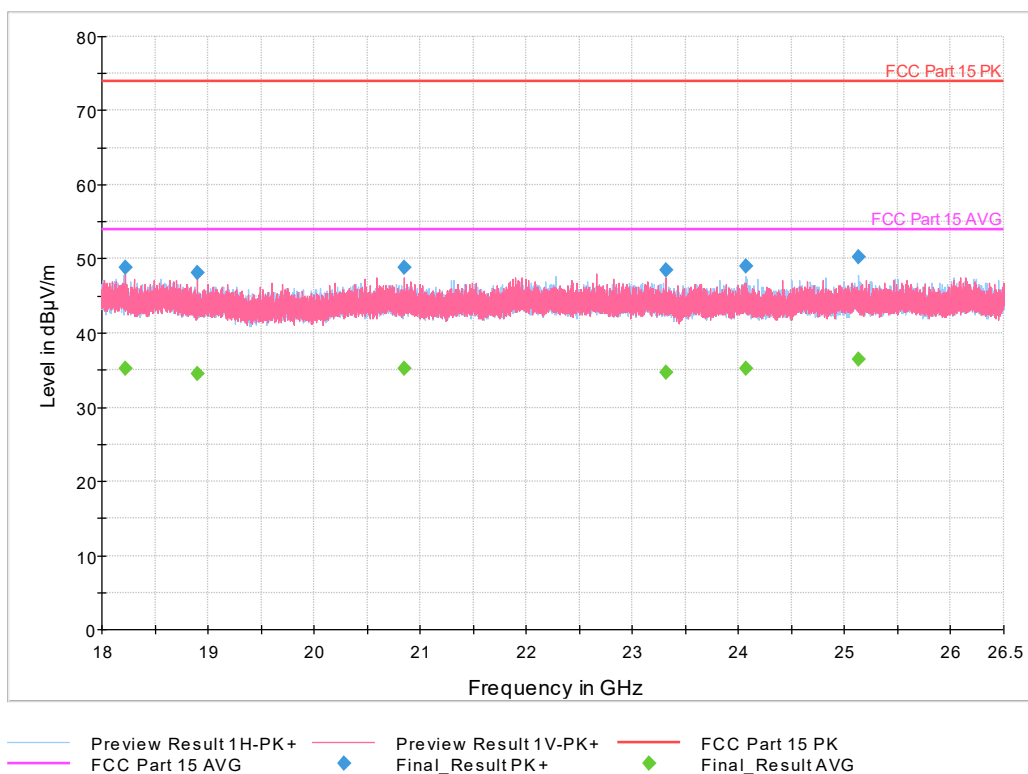
Plot 35. 1-18GHz 802.11g Mode, 2437 MHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1093.50	39.28	---	74.00	34.72	1000.00	100.00	H	223.00	-7.60
1093.50	---	32.43	54.00	21.57	1000.00	100.00	H	223.00	-7.60
4932.00	53.14	---	74.00	20.86	1000.00	100.00	H	98.00	6.00
4932.00	---	35.82	54.00	18.18	1000.00	100.00	H	98.00	6.00
7379.60	64.73	---	74.00	9.27	1000.00	100.00	V	95.00	11.50
7379.60	---	45.32	54.00	8.68	1000.00	100.00	V	95.00	11.50
13501.34	---	39.99	54.00	14.01	1000.00	255.00	H	273.00	20.90
13501.34	53.49	---	74.00	20.51	1000.00	255.00	H	273.00	20.90
14089.00	---	40.94	54.00	13.06	1000.00	353.00	V	326.00	21.10
14089.00	54.37	---	74.00	19.63	1000.00	353.00	V	326.00	21.10
17974.17	66.25	---	74.00	7.75	1000.00	255.00	H	4.00	31.90
17974.17	---	52.62	54.00	1.38	1000.00	255.00	H	4.00	31.90



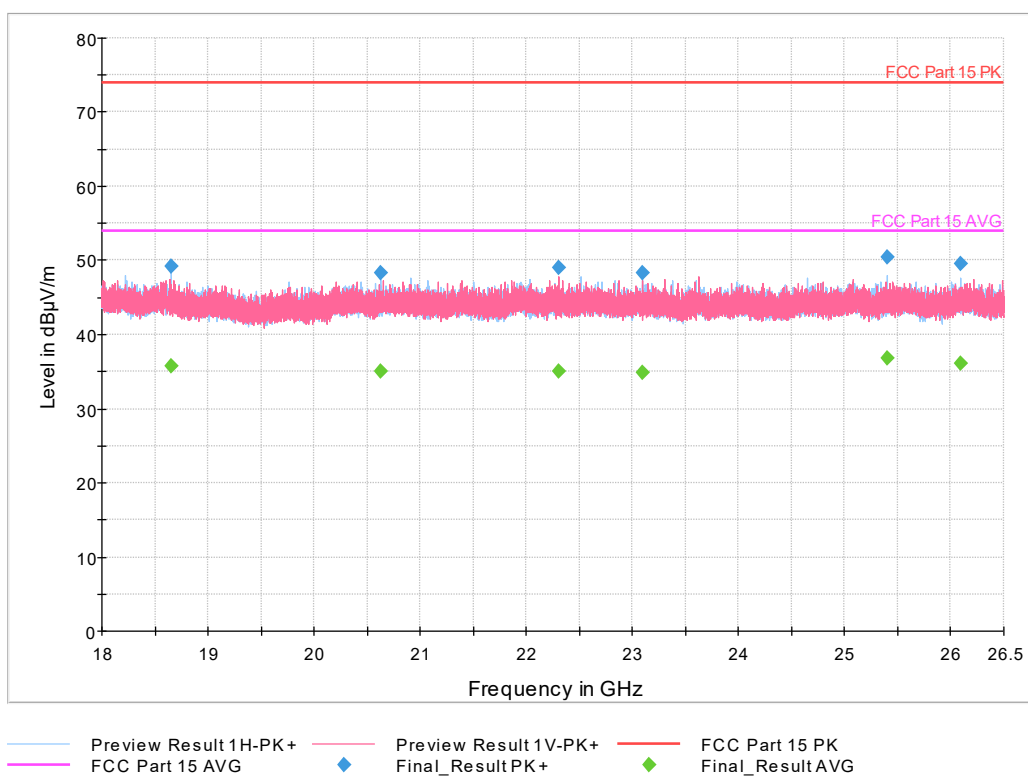
Plot 36. 1-18GHz 802.11g Mode, 2462 MHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
18227.25	48.82	---	74.00	25.19	1000.00	253.00	V	183.00	-2.90
18227.25	---	35.27	54.00	18.73	1000.00	253.00	V	183.00	-2.90
18902.76	48.06	---	74.00	25.94	1000.00	256.00	V	11.00	-2.10
18902.76	---	34.56	54.00	19.44	1000.00	256.00	V	11.00	-2.10
20844.85	---	35.14	54.00	18.86	1000.00	150.00	V	10.00	0.30
20844.85	48.92	---	74.00	25.08	1000.00	150.00	V	10.00	0.30
23316.00	---	34.74	54.00	19.26	1000.00	150.00	V	10.00	1.10
23316.00	48.54	---	74.00	25.46	1000.00	150.00	V	10.00	1.10
24069.50	49.00	---	74.00	25.00	1000.00	254.00	H	215.00	1.80
24069.50	---	35.29	54.00	18.71	1000.00	254.00	H	215.00	1.80
25131.00	50.34	---	74.00	23.66	1000.00	100.00	H	217.00	3.40
25131.00	---	36.53	54.00	17.47	1000.00	100.00	H	217.00	3.40



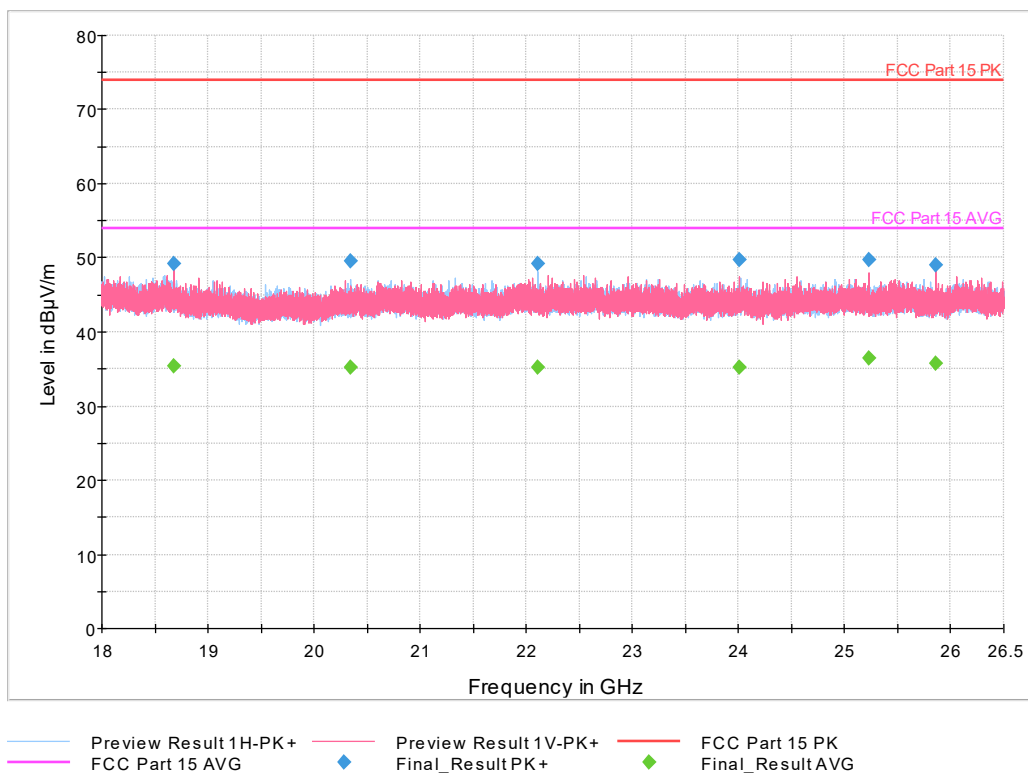
Plot 37. 18-26GHz 802.11g Mode, 2412 MHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
18650.37	49.18	---	74.00	24.82	1000.00	255.00	H	178.00	-2.20
18650.37	---	35.69	54.00	18.31	1000.00	255.00	H	178.00	-2.20
20625.00	---	35.01	54.00	18.99	1000.00	250.00	H	5.00	0.40
20625.00	48.31	---	74.00	25.69	1000.00	250.00	H	5.00	0.40
22302.11	---	34.97	54.00	19.03	1000.00	250.00	V	213.00	0.80
22302.11	48.97	---	74.00	25.03	1000.00	250.00	V	213.00	0.80
23093.00	48.31	---	74.00	25.69	1000.00	150.00	H	10.00	0.70
23093.00	---	34.82	54.00	19.18	1000.00	150.00	H	10.00	0.70
25396.75	50.37	---	74.00	23.63	1000.00	255.00	H	-1.00	3.90
25396.75	---	36.85	54.00	17.15	1000.00	255.00	H	-1.00	3.90
26095.50	49.58	---	74.00	24.42	1000.00	150.00	H	166.00	4.60
26095.50	---	36.18	54.00	17.82	1000.00	150.00	H	166.00	4.60



Plot 38. 18-26GHz 802.11g Mode, 2437 MHz

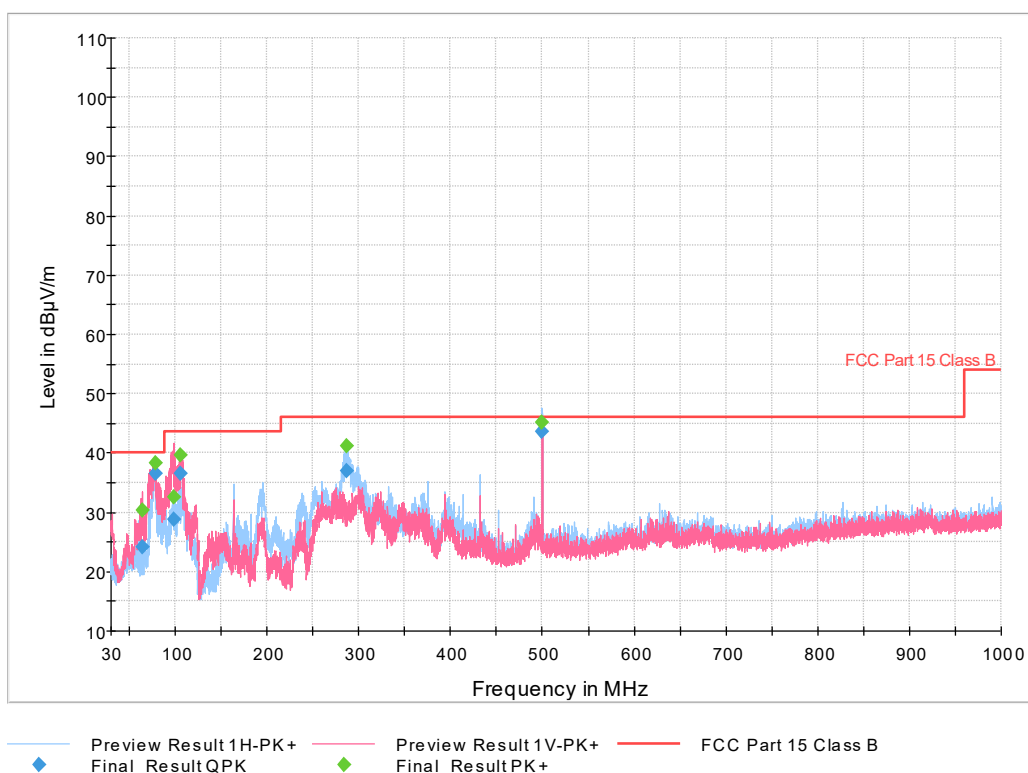
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
18672.52	---	35.47	54.00	18.53	1000.00	250.00	V	164.00	-2.20
18672.52	49.26	---	74.00	24.74	1000.00	250.00	V	164.00	-2.20
20345.81	---	35.23	54.00	18.77	1000.00	150.00	H	44.00	0.00
20345.81	49.63	---	74.00	24.37	1000.00	150.00	H	44.00	0.00
22111.50	49.19	---	74.00	24.81	1000.00	250.00	H	271.00	0.60
22111.50	---	35.26	54.00	18.74	1000.00	250.00	H	271.00	0.60
24012.22	49.72	---	74.00	24.28	1000.00	150.00	V	110.00	1.80
24012.22	---	35.21	54.00	18.79	1000.00	150.00	V	110.00	1.80
25226.50	49.79	---	74.00	24.21	1000.00	100.00	V	171.00	3.60
25226.50	---	36.47	54.00	17.53	1000.00	100.00	V	171.00	3.60
25858.25	49.08	---	74.00	24.92	1000.00	100.00	V	31.00	4.50
25858.25	---	35.72	54.00	18.28	1000.00	100.00	V	31.00	4.50



Plot 39. 18-26GHz 802.11g Mode, 2462 MHz

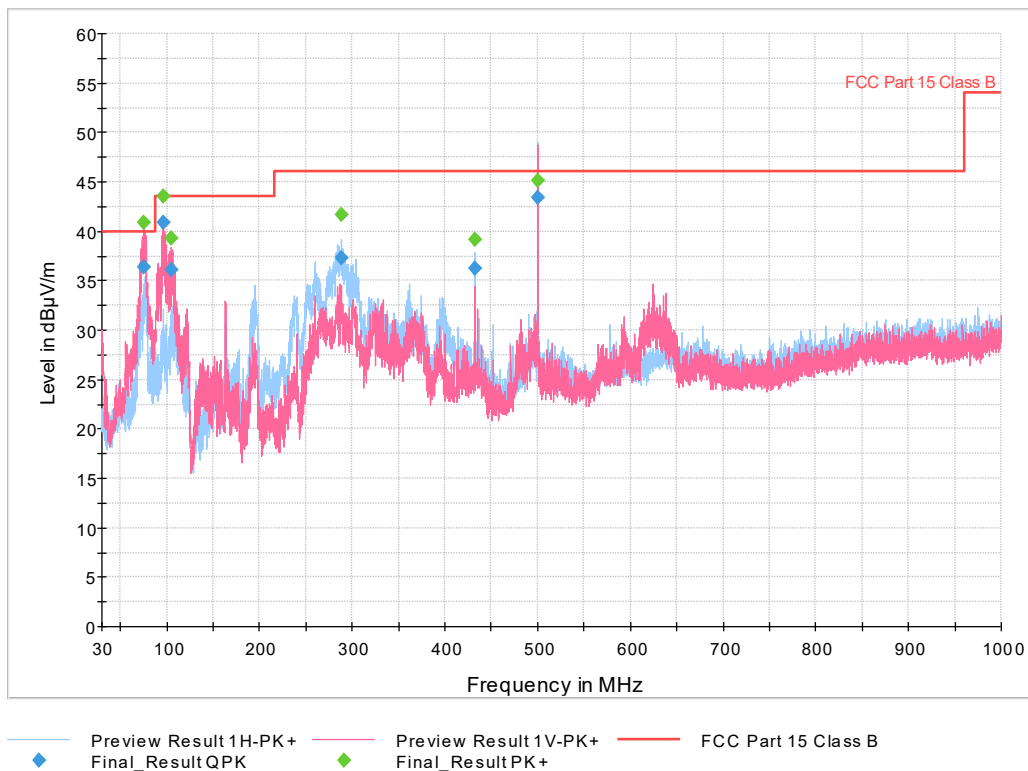
4.6.5 BF Test Results

Frequency (MHz)	QuasiPeak (dBμV/m)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
64.36	---	30.37	---	---	10000.00	120.00	104.00	V	-5.00	-14.80
64.36	24.08	---	40.00	15.92	10000.00	120.00	104.00	V	-5.00	-14.80
77.92	---	38.34	---	---	10000.00	120.00	156.00	V	155.00	-17.10
77.92	36.65	---	40.00	3.35	10000.00	120.00	156.00	V	155.00	-17.10
98.17	---	32.57	---	---	10000.00	120.00	100.00	V	173.00	-11.40
98.17	28.87	---	43.52	14.65	10000.00	120.00	100.00	V	173.00	-11.40
105.47	36.47	---	43.52	7.05	10000.00	120.00	100.00	V	0.00	-11.50
105.47	---	39.73	---	---	10000.00	120.00	100.00	V	0.00	-11.50
287.35	37.07	---	46.02	8.95	10000.00	120.00	100.00	H	131.00	-10.90
287.35	---	41.09	---	---	10000.00	120.00	100.00	H	131.00	-10.90
500.00	---	45.15	---	---	10000.00	120.00	110.00	H	-10.00	-6.20
500.00	43.67	---	46.02	2.35	10000.00	120.00	110.00	H	-10.00	-6.20



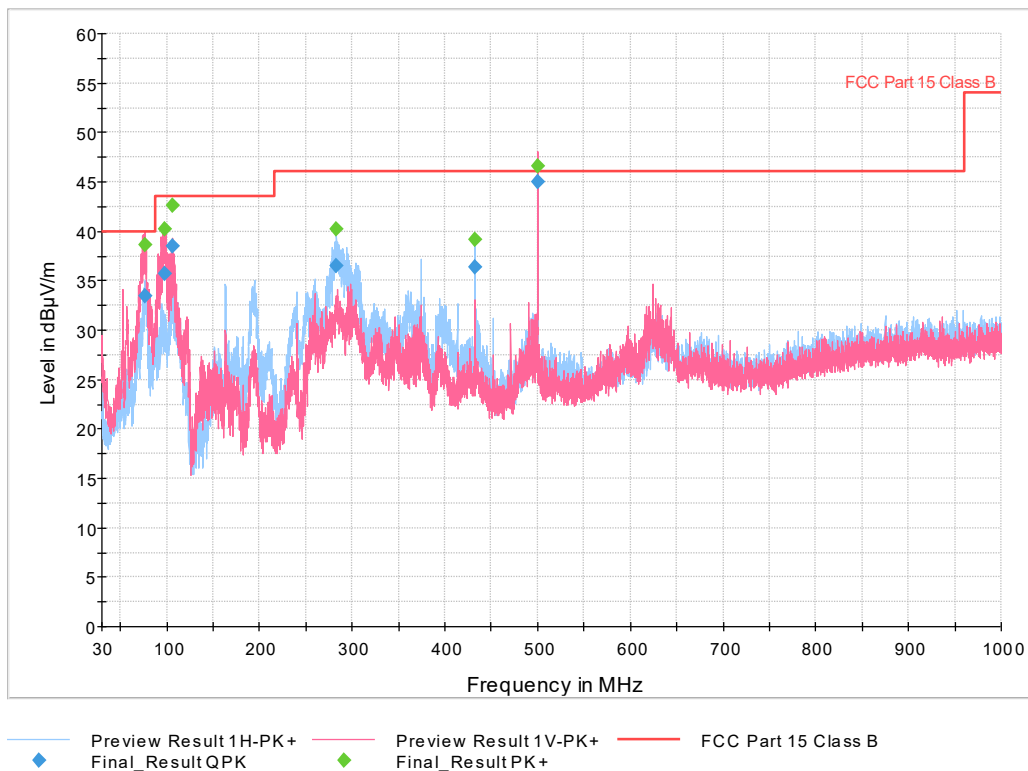
Plot 40. 30MHz-1GHz 802.11n20 Mode, 2412 MHz

Frequency (MHz)	QuasiPeak (dBμV/m)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
75.11	36.41	---	40.00	3.59	10000.00	120.00	155.00	V	-2.00	-17.00
75.11	---	40.85	---	---	10000.00	120.00	155.00	V	-2.00	-17.00
95.93	---	43.58	---	---	10000.00	120.00	100.00	V	-5.00	-12.10
95.93	40.93	---	43.52	2.59	10000.00	120.00	100.00	V	-5.00	-12.10
104.94	---	39.34	---	---	10000.00	120.00	106.00	V	-2.00	-11.50
104.94	36.12	---	43.52	7.40	10000.00	120.00	106.00	V	-2.00	-11.50
288.74	37.33	---	46.02	8.69	10000.00	120.00	104.00	H	307.00	-10.80
288.74	---	41.71	---	---	10000.00	120.00	104.00	H	307.00	-10.80
432.69	36.24	---	46.02	9.78	10000.00	120.00	106.00	H	229.00	-7.60
432.69	---	39.18	---	---	10000.00	120.00	106.00	H	229.00	-7.60
500.00	---	45.20	---	---	10000.00	120.00	107.00	H	-7.00	-6.20
500.00	43.40	---	46.02	2.62	10000.00	120.00	107.00	H	-7.00	-6.20



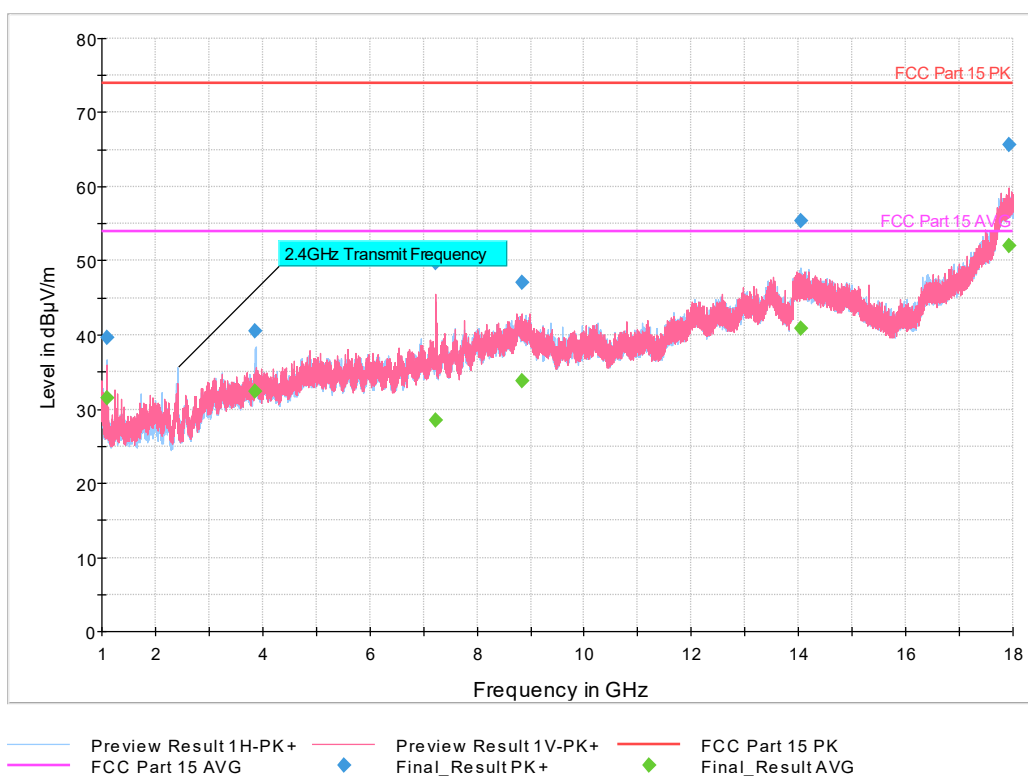
Plot 41. 30MHz-1GHz 802.11n20 Mode, 2437 MHz

Frequency (MHz)	QuasiPeak (dBμV/m)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
76.74	33.44	---	40.00	6.56	10000.00	120.00	250.00	V	158.00	-17.00
76.74	---	38.66	---	---	10000.00	120.00	250.00	V	158.00	-17.00
97.43	---	40.20	---	---	10000.00	120.00	103.00	V	350.00	-11.60
97.43	35.66	---	43.52	7.86	10000.00	120.00	103.00	V	350.00	-11.60
105.76	---	42.59	---	---	10000.00	120.00	100.00	V	-2.00	-11.50
105.76	38.47	---	43.52	5.05	10000.00	120.00	100.00	V	-2.00	-11.50
283.17	36.57	---	46.02	9.45	10000.00	120.00	100.00	H	49.00	-11.00
283.17	---	40.26	---	---	10000.00	120.00	100.00	H	49.00	-11.00
432.69	36.31	---	46.02	9.71	10000.00	120.00	104.00	H	228.00	-7.60
432.69	---	39.20	---	---	10000.00	120.00	104.00	H	228.00	-7.60
500.00	---	46.54	---	---	10000.00	120.00	100.00	V	276.00	-7.00
500.00	45.04	---	46.02	0.98	10000.00	120.00	100.00	V	276.00	-7.00



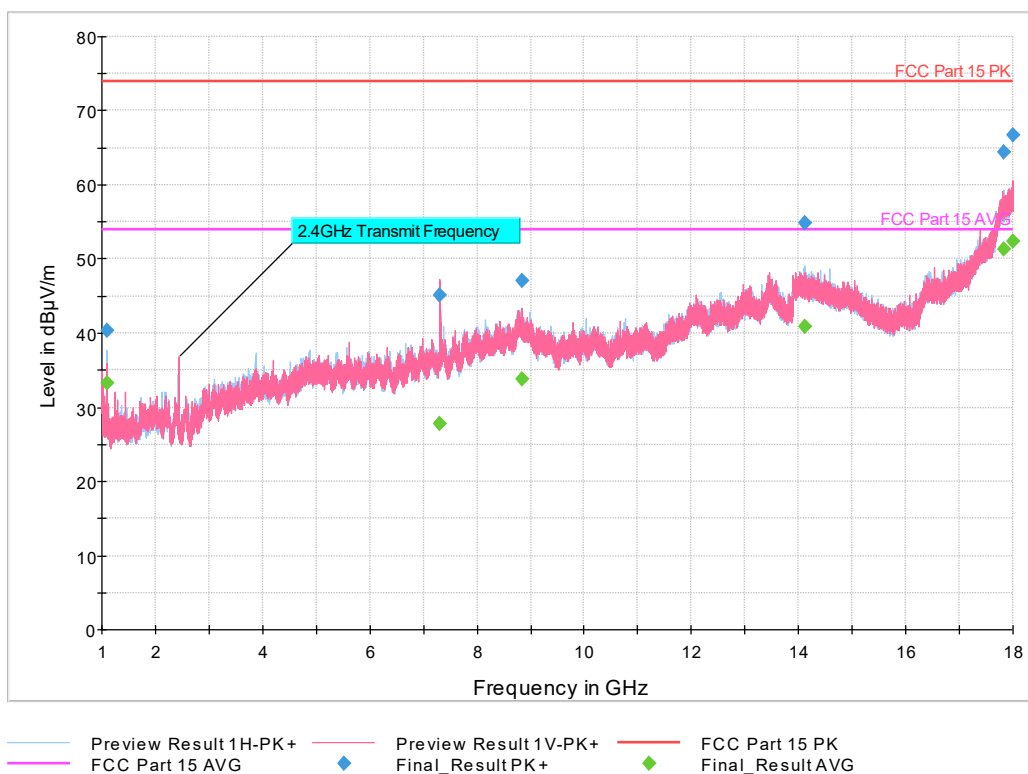
Plot 42. 30MHz-1GHz 802.11n20 Mode, 2462 MHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1093.75	---	31.59	54.00	22.41	1000.00	105.00	H	119.00	-7.60
1093.75	39.73	---	74.00	34.27	1000.00	105.00	H	119.00	-7.60
3869.84	---	32.47	54.00	21.53	1000.00	105.00	H	182.00	3.30
3869.84	40.58	---	74.00	33.42	1000.00	105.00	H	182.00	3.30
7238.07	49.71	---	74.00	24.29	1000.00	250.00	V	153.00	11.00
7238.07	---	28.45	54.00	25.55	1000.00	250.00	V	153.00	11.00
8835.09	---	33.84	54.00	20.16	1000.00	100.00	V	101.00	14.70
8835.09	47.08	---	74.00	26.92	1000.00	100.00	V	101.00	14.70
14036.50	55.44	---	74.00	18.56	1000.00	355.00	H	289.00	21.00
14036.50	---	40.89	54.00	13.11	1000.00	355.00	H	289.00	21.00
17930.50	---	52.01	54.00	1.99	1000.00	350.00	V	107.00	31.70
17930.50	65.69	---	74.00	8.31	1000.00	350.00	V	107.00	31.70



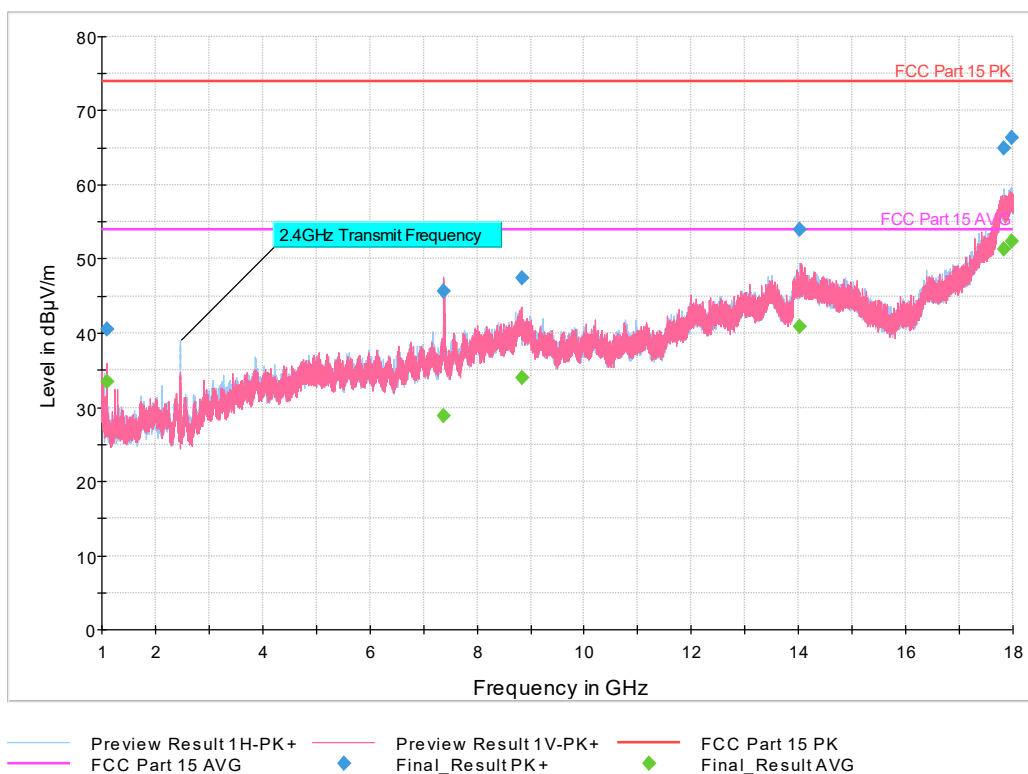
Plot 43. 1-18GHz 802.11n20 Mode, 2412 MHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1093.72	40.43	---	74.00	33.57	1000.00	104.00	H	225.00	-7.60
1093.72	---	33.33	54.00	20.67	1000.00	104.00	H	225.00	-7.60
7311.50	---	27.84	54.00	26.16	1000.00	250.00	V	120.00	11.20
7311.50	45.13	---	74.00	28.87	1000.00	250.00	V	120.00	11.20
8844.19	47.04	---	74.00	26.96	1000.00	250.00	V	115.00	14.70
8844.19	---	33.84	54.00	20.16	1000.00	250.00	V	115.00	14.70
14117.72	54.90	---	74.00	19.10	1000.00	105.00	H	47.00	21.40
14117.72	---	40.90	54.00	13.10	1000.00	105.00	H	47.00	21.40
17828.03	---	51.40	54.00	2.60	1000.00	150.00	H	142.00	31.20
17828.03	64.46	---	74.00	9.54	1000.00	150.00	H	142.00	31.20
17998.32	66.69	---	74.00	7.31	1000.00	350.00	V	106.00	31.90
17998.32	---	52.39	54.00	1.61	1000.00	350.00	V	106.00	31.90



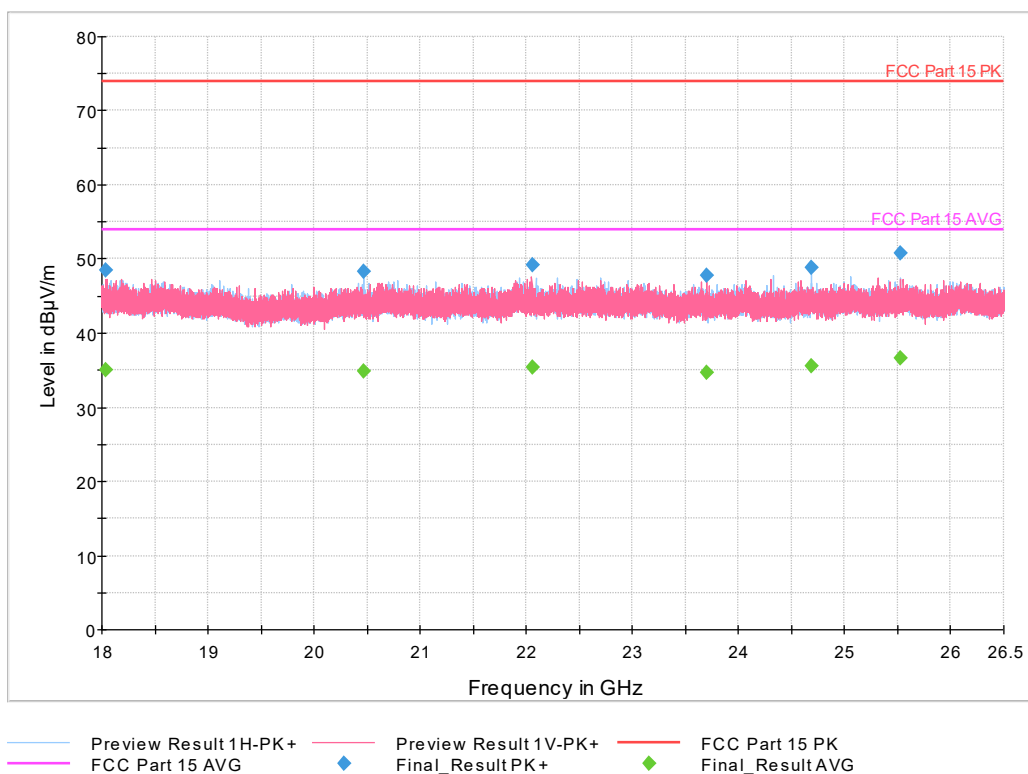
Plot 44. 1-18GHz 802.11n20 Mode, 2437 MHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1093.72	40.49	---	74.00	33.51	1000.00	105.00	H	226.00	-7.60
1093.72	---	33.52	54.00	20.48	1000.00	105.00	H	226.00	-7.60
7384.92	---	28.90	54.00	25.10	1000.00	150.00	H	158.00	11.60
7384.92	45.75	---	74.00	28.25	1000.00	150.00	H	158.00	11.60
8828.92	47.49	---	74.00	26.51	1000.00	250.00	V	255.00	14.70
8828.92	---	33.91	54.00	20.09	1000.00	250.00	V	255.00	14.70
14020.39	---	40.87	54.00	13.13	1000.00	236.00	H	13.00	21.00
14020.39	54.07	---	74.00	19.93	1000.00	236.00	H	13.00	21.00
17821.39	64.94	---	74.00	9.06	1000.00	100.00	H	4.00	31.10
17821.39	---	51.40	54.00	2.60	1000.00	100.00	H	4.00	31.10
17980.60	66.41	---	74.00	7.59	1000.00	100.00	H	259.00	31.90
17980.60	---	52.47	54.00	1.53	1000.00	100.00	H	259.00	31.90



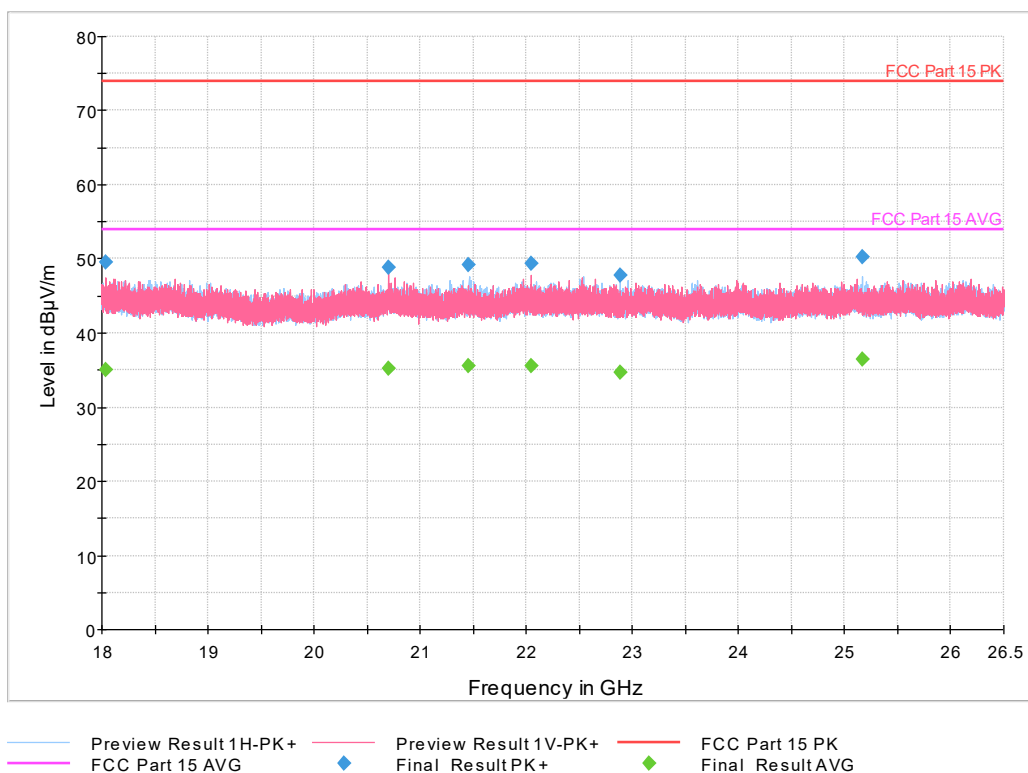
Plot 45. 1-18GHz 802.11n20 Mode, 2462 MHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
18042.25	48.58	---	74.00	25.42	1000.00	100.00	V	196.00	-3.20
18042.25	---	35.07	54.00	18.93	1000.00	100.00	V	196.00	-3.20
20465.00	48.36	---	74.00	25.64	1000.00	254.00	H	328.00	0.20
20465.00	---	34.90	54.00	19.10	1000.00	254.00	H	328.00	0.20
22053.00	49.20	---	74.00	24.80	1000.00	250.00	V	13.00	0.60
22053.00	---	35.49	54.00	18.51	1000.00	250.00	V	13.00	0.60
23694.01	47.82	---	74.00	26.18	1000.00	154.00	V	58.00	1.20
23694.01	---	34.63	54.00	19.37	1000.00	154.00	V	58.00	1.20
24687.97	---	35.59	54.00	18.41	1000.00	150.00	H	200.00	2.70
24687.97	48.85	---	74.00	25.15	1000.00	150.00	H	200.00	2.70
25527.24	---	36.58	54.00	17.42	1000.00	253.00	H	-1.00	4.10
25527.24	50.82	---	74.00	23.18	1000.00	253.00	H	-1.00	4.10



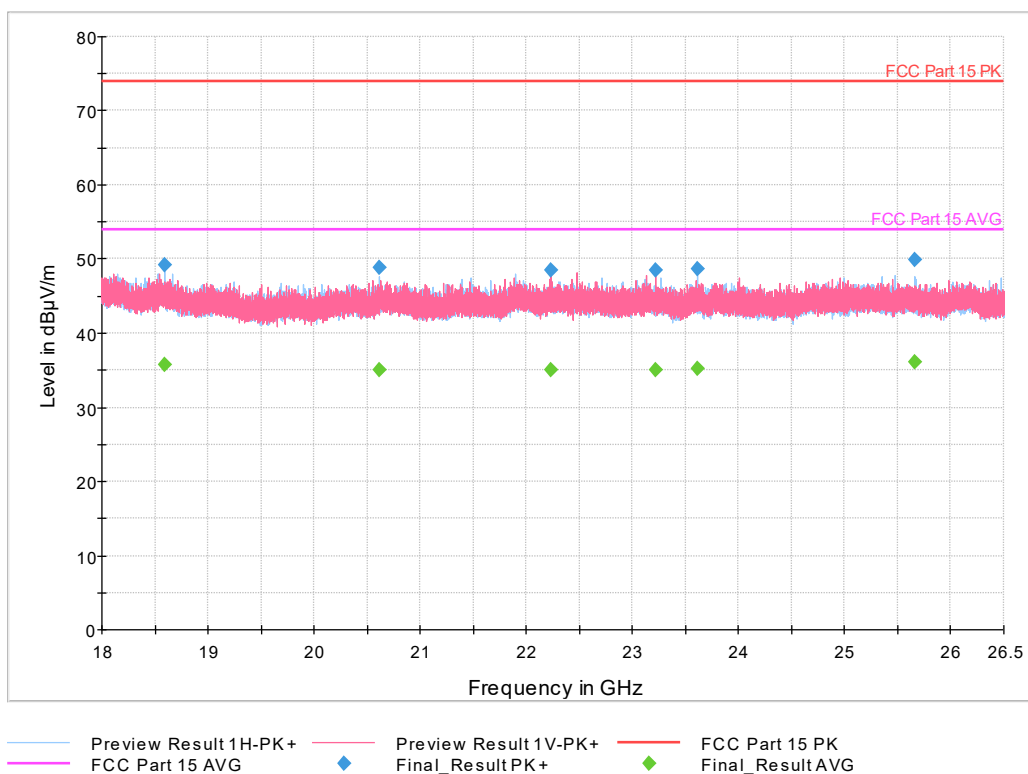
Plot 46. 18-26GHz 802.11n20 Mode, 2412 MHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
18040.10	---	35.07	54.00	18.93	1000.00	250.00	V	204.00	-3.20
18040.10	49.49	---	74.00	24.51	1000.00	250.00	V	204.00	-3.20
20697.87	---	35.22	54.00	18.78	1000.00	100.00	V	246.00	0.40
20697.87	48.87	---	74.00	25.13	1000.00	100.00	V	246.00	0.40
21460.04	49.22	---	74.00	24.78	1000.00	150.00	H	35.00	0.60
21460.04	---	35.66	54.00	18.34	1000.00	150.00	H	35.00	0.60
22044.50	---	35.52	54.00	18.48	1000.00	100.00	V	85.00	0.60
22044.50	49.42	---	74.00	24.58	1000.00	100.00	V	85.00	0.60
22889.25	---	34.63	54.00	19.37	1000.00	100.00	H	78.00	0.70
22889.25	47.86	---	74.00	26.14	1000.00	100.00	H	78.00	0.70
25167.25	50.19	---	74.00	23.81	1000.00	250.00	H	78.00	3.50
25167.25	---	36.50	54.00	17.50	1000.00	250.00	H	78.00	3.50



Plot 47. 18-26GHz 802.11n20 Mode, 2437 MHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
18598.00	---	35.77	54.00	18.23	1000.00	250.00	H	158.00	-2.30
18598.00	49.27	---	74.00	24.73	1000.00	250.00	H	158.00	-2.30
20616.00	48.77	---	74.00	25.23	1000.00	100.00	H	103.00	0.40
20616.00	---	35.06	54.00	18.94	1000.00	100.00	H	103.00	0.40
22232.50	48.50	---	74.00	25.50	1000.00	150.00	V	111.00	0.80
22232.50	---	35.07	54.00	18.93	1000.00	150.00	V	111.00	0.80
23216.00	---	34.99	54.00	19.01	1000.00	254.00	V	111.00	0.90
23216.00	48.53	---	74.00	25.47	1000.00	254.00	V	111.00	0.90
23608.75	48.63	---	74.00	25.37	1000.00	250.00	H	151.00	1.40
23608.75	---	35.18	54.00	18.82	1000.00	250.00	H	151.00	1.40
25663.67	49.86	---	74.00	24.14	1000.00	150.00	H	129.00	4.50
25663.67	---	36.16	54.00	17.84	1000.00	150.00	H	129.00	4.50



Plot 48. 18-26GHz 802.11n20 Mode, 2462 MHz

4.7 AC Conducted Emissions

Testing was performed in accordance with ANSI C63.4: 2014. These test methods are listed under the laboratory's A2LA Scope of Accreditation.

This test measures the levels emanating from the EUT's AC input port, thus evaluating the potential for the EUT to cause radio frequency interference to other electronic devices.

The AC conducted emissions of equipment under test shall not exceed the values in CFR47 Part 15.207.

4.7.1 Test Methodology

A test program that controls instrumentation and data logging was used to automate the AC Power Line Conducted emission test procedure. The frequency range of interest was divided into sub-ranges such as to yield a frequency resolution of 9 kHz. Each phase and neutral of the AC power line were measured with respect to ground. Measurements were performed using a set of 50 μ H / 50 Ω LISNs.

Testing is performed in Lab1. The setup photographs clearly identify which site was used. The vertical ground plane used in the semi-anechoic chamber is a 2m x 2m solid aluminum frame and panel, and it is bonded to the horizontal ground plane.

In the case of tabletop equipment, the EUT is placed on a 1.0m x 1.5m non-conductive table 80cm above the ground plane and 40cm from a vertical ground reference plane. The rear of the EUT was positioned flush with the backside of the table and directly over the LISNs. The power and I/O cables were routed over the edge of the table and bundled approximately 40cm from the ground plane. Support equipment was powered from a separate LISN.

4.7.1.1 Deviations

There were no deviations from this test methodology.

4.7.2 Test Results

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Line	PE	Corr. (dB)
0.15	---	36.40	55.87	19.47	10000.00	N	GND	10.10
0.15	49.63	---	65.87	16.24	10000.00	N	GND	10.10
0.19	---	31.22	54.01	22.79	10000.00	N	GND	10.10
0.19	45.68	---	64.01	18.33	10000.00	N	GND	10.10
4.92	---	16.18	46.00	29.82	10000.00	N	GND	10.10
4.92	36.37	---	56.00	19.63	10000.00	N	GND	10.10
7.97	---	28.11	50.00	21.89	10000.00	N	GND	10.10
7.97	39.33	---	60.00	20.67	10000.00	N	GND	10.10
8.51	---	28.08	50.00	21.92	10000.00	N	GND	10.20
8.51	41.20	---	60.00	18.80	10000.00	N	GND	10.20
10.47	---	27.42	50.00	22.58	10000.00	N	GND	10.20
10.47	43.59	---	60.00	16.41	10000.00	N	GND	10.20
11.00	---	25.76	50.00	24.24	10000.00	N	GND	10.20
11.00	42.22	---	60.00	17.78	10000.00	N	GND	10.20
29.72	---	21.98	50.00	28.02	10000.00	N	GND	10.40
29.72	37.11	---	60.00	22.89	10000.00	N	GND	10.40

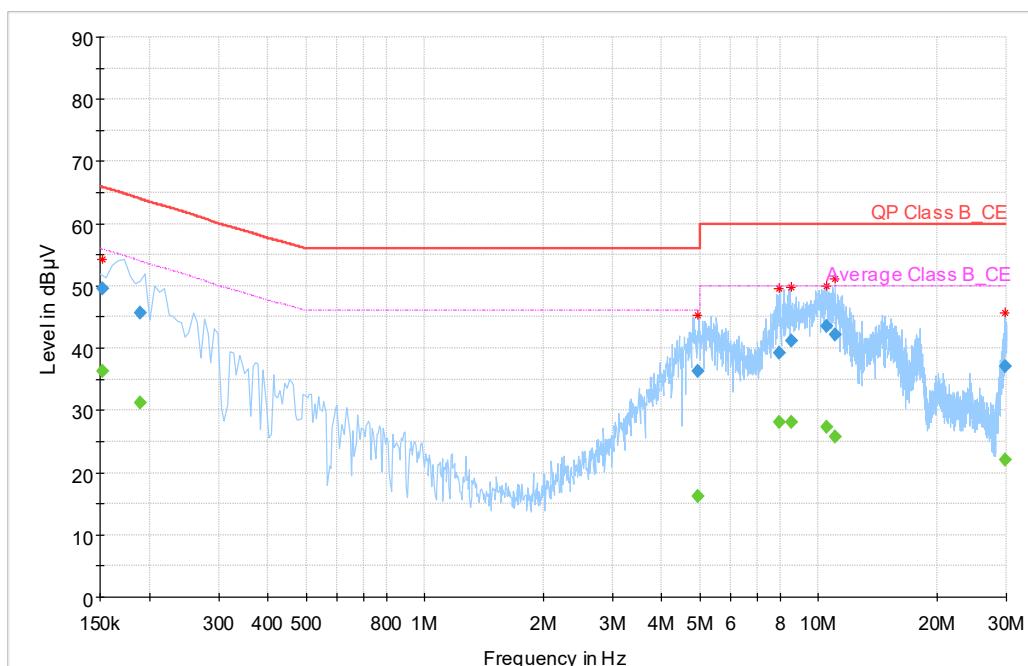


Figure 49: AC Conducted Emissions, 120VAC 60 Hz, Neutral Line

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Line	PE	Corr. (dB)
0.15	50.95	---	66.00	15.05	10000.00	L1	GND	10.10
0.15	---	38.61	56.00	17.39	10000.00	L1	GND	10.10
0.15	50.66	---	65.98	15.31	10000.00	L1	GND	10.10
0.15	---	38.31	55.98	17.67	10000.00	L1	GND	10.10
0.21	---	26.66	53.04	26.38	10000.00	L1	GND	10.00
0.21	42.43	---	63.04	20.61	10000.00	L1	GND	10.00
4.72	---	15.48	46.00	30.52	10000.00	L1	GND	10.00
4.72	35.57	---	56.00	20.43	10000.00	L1	GND	10.00
5.25	---	17.13	50.00	32.87	10000.00	L1	GND	10.00
5.25	36.82	---	60.00	23.18	10000.00	L1	GND	10.00
8.13	---	28.79	50.00	21.21	10000.00	L1	GND	10.10
8.13	40.54	---	60.00	19.46	10000.00	L1	GND	10.10
10.72	---	26.44	50.00	23.56	10000.00	L1	GND	10.10
10.72	43.04	---	60.00	16.96	10000.00	L1	GND	10.10
12.14	---	20.42	50.00	29.58	10000.00	L1	GND	10.10
12.14	37.88	---	60.00	22.12	10000.00	L1	GND	10.10
29.86	---	23.35	50.00	26.65	10000.00	L1	GND	10.00
29.86	38.24	---	60.00	21.76	10000.00	L1	GND	10.00

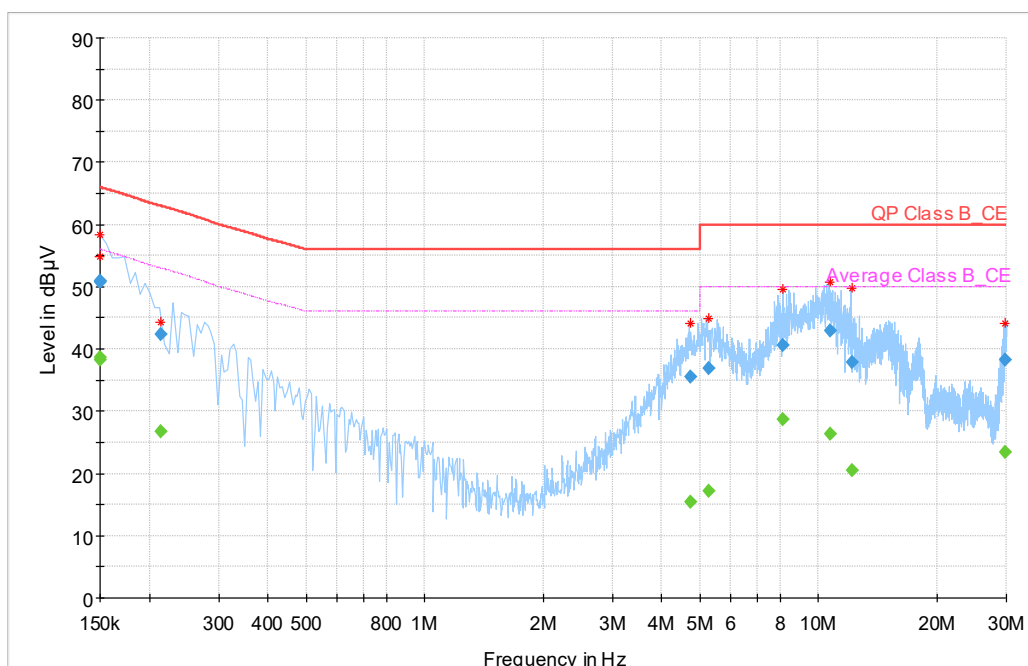


Figure 50: AC Conducted Emissions, 120VAC 60 Hz, Live Line

5 Test Equipment List

5.1 Equipment List

Inventory number	Equipment	Type	Manufacturer	Last calibration	Calibration due date
9046757	Bilog; Attenuator	VULB 9163	Schwarzbeck Mess Elektronik	06/07/2022	06/07/2024
9017943	Broadband Trilog Antenna, 30 MHz - 7 GHz	VULB 9162	Maturo	03-24-2023	03-24-2025
9017639	Preamplifier, 30 MHz - 8 GHz	TS-PR8	Rohde & Schwarz	02/22/2024	02/22/2025
G1700070	Horn Antenna 1 – 18 GHz	3115	EMCO	03/30/2023	03/30/2025
9018047	Pre-amp 1 – 18 GHz	TS-PR18	Rohde & Schwarz	02/27/2024	02/27/2025
9041786	Horn Antenna 18- 40 GHz	180-442-KF	L3 Narda	06/20/2022	06/20/2024
9018046	Pre-amp 18- 40 GHz	TS-PR1840	Rohde & Schwarz	02-27-2024	02-27-2025
9018108	ESW44 EMI Test Receiver 2 Hz to 44 GHz	ESW44	Rohde & Schwarz	02/21/2024	02/21/2025
9043170	FSV Signal Analyzer	FSV	Rohde & Schwarz	02/22/2024	02/22/2025
G1701026	Transient Limiter	11947A	Agilent	02/22/2024	02/22/2025
G1700882	EMI Test Receiver	ESI	Rohde & Schwarz	02/21/2024	02/21/2025
9042125	Line Impedance Stabilization Network	L1-220C	Com-Power Corp	02/22/2024	02/22/2025
BRC50703	5150 – 5350 MHz Notch Filter	BRC50703	Micro-Tronics	N/A (See Note)	
BRC50704	5470 – 5725 MHz Notch Filter	BRC50704	Micro-Tronics	N/A (See Note)	
BRC50705	5725 – 5875 MHz Notch Filter	BRC50705	Micro-Tronics	N/A (See Note)	
BRM50702	2.4 GHz Notch Filter	BRM50702	Micro-Tronics	N/A (See Note)	
9041270	Power Meter	NRX	Rohde & Schwarz	02/26/2024	02/26/2025
9041273	Power Sensor	NRP6A	Rohde & Schwarz	02/26/2024	02/26/2025
9041274	Power Sensor	NRP6A	Rohde & Schwarz	02/26/2024	02/26/2025

Note: Equipment is characterized before use.

6 EMC Test Plan

6.1 Introduction

This section provides a description of the Equipment Under Test (EUT), configurations, operating conditions, and performance acceptance criteria. It is an overview of information provided by the manufacturer so that the test laboratory may perform the requested testing.

6.2 Customer

Table 5: Customer Information

Company Name	Omnifi Inc.
Address	6801 Koll Center Pkwy. Ste. 145
City, State, Zip	Pleasanton, CA 94566
Country	U.S.A.
Phone	(925) 237-1185

Table 6: Technical Contact Information

Name	John Schmit
E-mail	john@omnifi.io
Phone	(925) 237-1185

6.3 Equipment Under Test (EUT)

Table 7: EUT Specifications *

EUT Specifications	
DC Input	12 VDC-60 VDC: 1.25 A at 12V, 250 mA at 60 V, 15 W
Environment (Indoor / Outdoor)	Indoor
Operating Temperature Range:	0 – 65 °C
Multiple Feeds:	☒ Yes and how many 2 ☐ No Note: 2.4 GHz with 2 multiple RF ports,
Product Marketing Name (PMN)	Omnifi Wi-Fi Node
Model No.	OWI2GB-55
Hardware Version Identification Number (HVIN)	2023
Firmware Version Identification Number (FVIN)	6.5.3ga
Operating Modes	802.11b (20 MHz Bandwidth) 802.11g (20 MHz Bandwidth) 802.11n HT20 (20 MHz Bandwidth) 802.11ax HE20 (20 MHz Bandwidth) 802.11ac VHT20 (20 MHz Bandwidth) 802.11n HT40 (40 MHz Bandwidth) 802.11ax HE40 (40 MHz Bandwidth) 802.11ac VHT40 (40 MHz Bandwidth)
Transmitter Frequency Band	2412 – 2483.5 MHz
Power Settings	See Table 9
Antenna Type	Molex 208482-0150 2.4/5GHz Omnidirectional Molex 208482-0200 2.4/5GHz Omnidirectional, U-NII-1 Band
Antenna Gain (dBi)	3 dBi: Molex 208482-0150 2.5 dBi: Molex 208482-0200
Modulation Type	☐ BLE ☒ DSSS ☒ OFDM ☐ Other describe:
Directional Gain Type	☒ Correlated ☒ Uncorrelated ☐ Other describe:
Type of Equipment	☒ Table Top ☐ Wall-mount ☐ Floor standing cabinet ☐ Other:
*All EUT specifications are provided by the manufacturer or the TUV direct customer. Note: Information supplied by the customer and can affect the validity of results.	

Table 8: EUT Channel Power Specifications

Freq. (MHz)	802.11b 20	802.11g 20	802.11n HT20	802.11ax HE20	802.11ac HE20	802.11n HT40	802.11ax HE40	802.11ac VHT40			
Power Setting: Uncorrelated mode											
2412	112	93	92	93	83						
2437	112	93	92	93	83						
2462	112	93	92	93	83						
2422						96	93	96			
2437						96	93	96			
2452						96	93	96			
Freq. (MHz)	802.11g 20	802.11n HT20	802.11ax HE20	802.11ac HE20	802.11n HT40	802.11ax HE40	802.11ac VHT40				
Power Setting: Beamforming mode											
2412	95	82	82	84							
2437	95	82	82	84							
2462	95	82	82	84							
2422					90	93	96				
2437					90	93	96				
2452					90	93	96				

Table 9: Antenna Information

Number	Antenna Type	Max Gain
		2.4GHz
		(dBi)
Antenna	208482-0150	3.0

Table 10: Interface Specifications

Interface Type	Cabled with what type of cable?	Is the cable shielded?	Maximum potential length of the cable?	Metallic (M), Coax (C), Fiber (F), or Not Applicable?
Ethernet Upstream	Terminated to laptop	☒ Yes	☒ Metric: >3m	☒ N/A
Ethernet Downstream	Terminated to laptop	☒ Yes	☒ Metric: >3m	☒ N/A

Table 11: Support Equipment

Equipment	Manufacturer	Model	Serial	Used for
Laptop	Lenovo	X1	-	Set test mode
AC/DC Power Supply	CUI Inc	SDI65-24-U	SDI65-24-U-P6	Conducted Emissions

Table 12: Description of Sample used for testing

Device	Serial Number	Configuration	Used For
OWI2GB-55	0M0003	Radiated Sample	Radiated Emissions, Conducted Emissions
OWI2GB-55	0M0011	Conducted Sample	Output Power, Occupied Bandwidth, Peak Power Spectral Density
Note: None			

Table 13: Description of Test Configuration used for Radiated Measurement.

Device	Antenna	Mode	Setup Description
OWI2GB-55	External	Transmit	positioned tabletop.
Note: This is the final setup configuration used for testing on its normal positioned.			

6.4 Test Specifications

Table 14: Test Specifications

Emissions and Immunity	
Standard	Requirement
CFR 47 Part 15.247: 2024	All

END OF REPORT