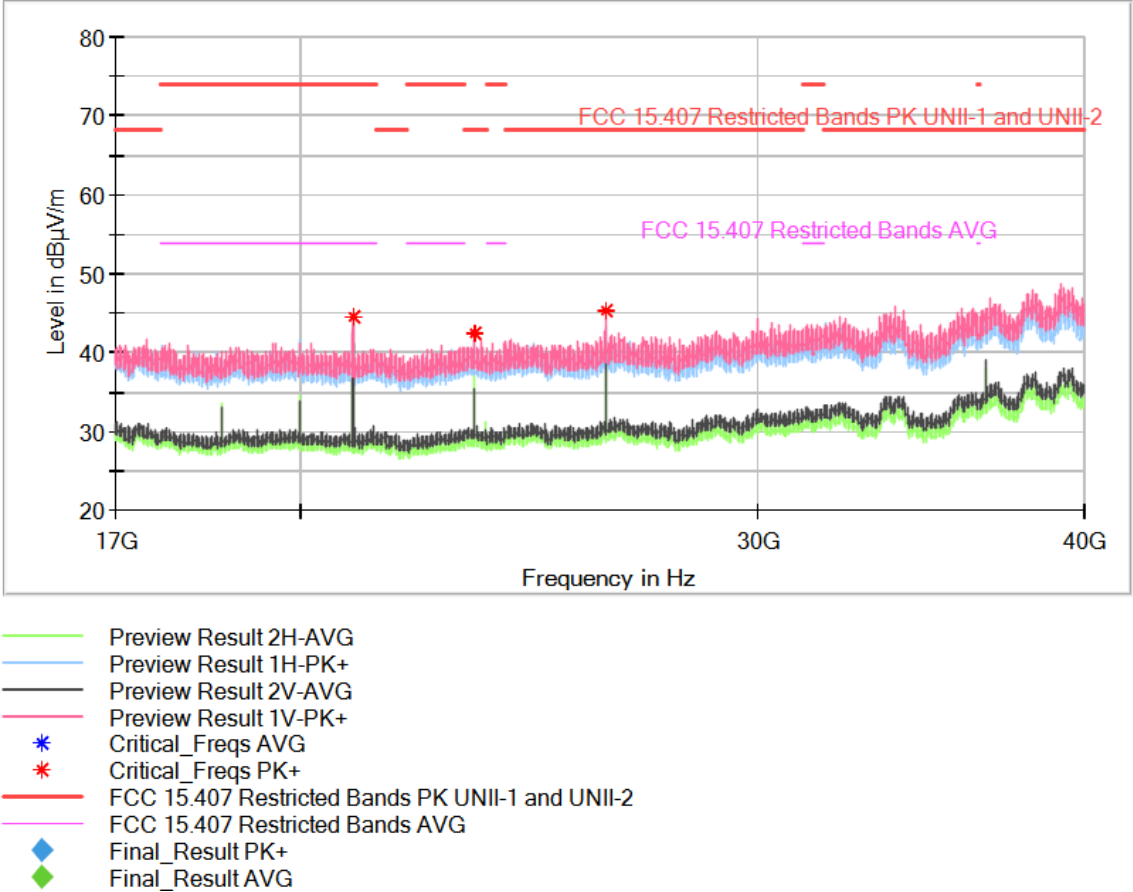


Operation Band MHz = [5150, 5250] Active Port = 2
Frequency Range GHz = [17, 40] Frequency MHz = 5240.00000
Modulation = 802.11ax HE20 (OFDMA MCS0) Resource Unit Tone/Index =
Subcarrier Mode = RU

Images:



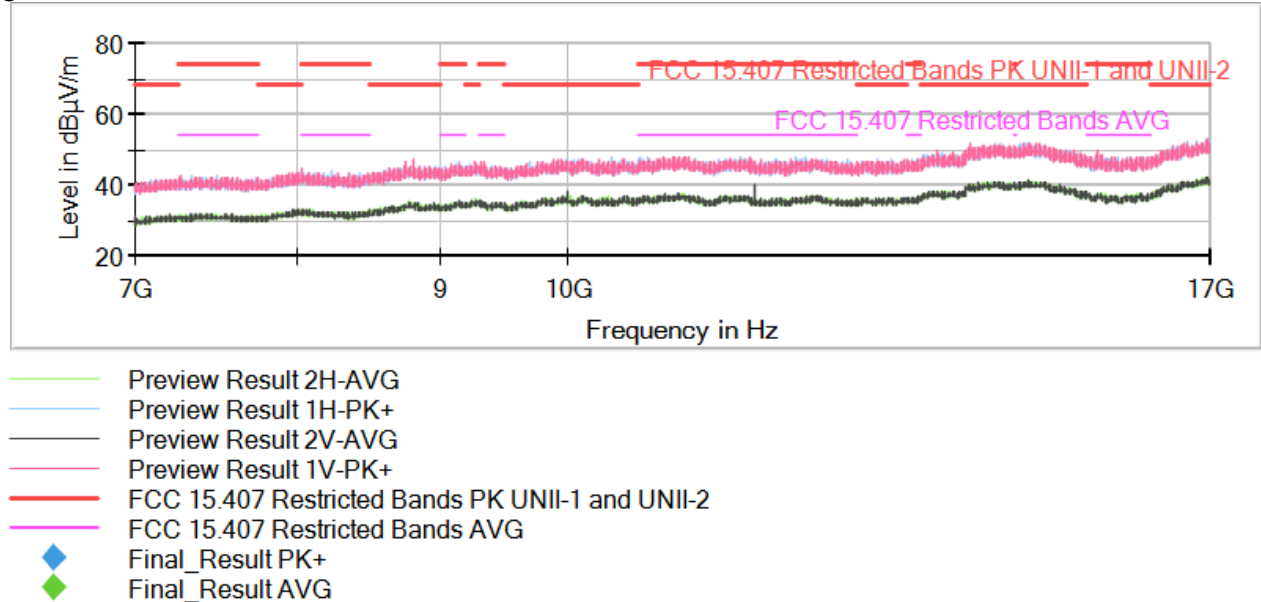
Tables:

Spectrum Analyzer Parameters

	Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
	Receiver: [ESW 44]					
	17 GHz - 40 GHz	766,667 kHz	PK+ ; AVG	1 MHz	1 s	0 dB

Operation Band MHz = [5150, 5250] Active Port = 1+2
Frequency Range GHz = [7, 17] Frequency MHz = 5180.00000
Modulation = 802.11ax HE20 (OFDMA MCS0) Resource Unit Tone/Index =
Subcarrier Mode = RU

Images:



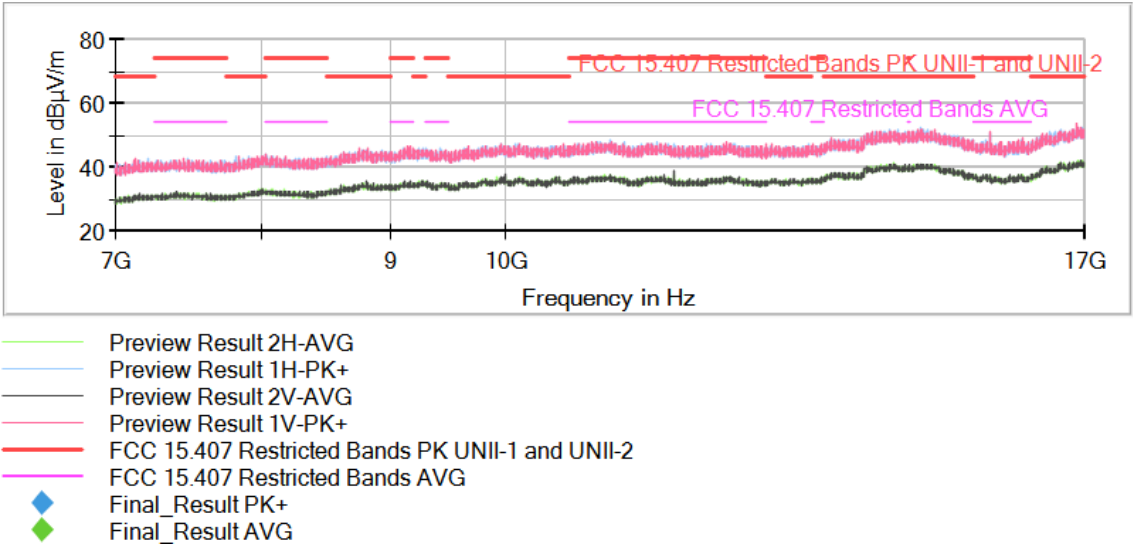
Tables:

Spectrum Analyzer Parameters

	Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
	Receiver: [ESW 44]					
	7 GHz - 17 GHz	333,333 kHz	PK+ ; AVG	1 MHz	1 s	0 dB

Operation Band MHz = [5150, 5250] Active Port = 1+2
Frequency Range GHz = [7, 17] Frequency MHz = 5200.00000
Modulation = 802.11ax HE20 (OFDMA MCS0) Resource Unit Tone/Index =
Subcarrier Mode = RU

Images:



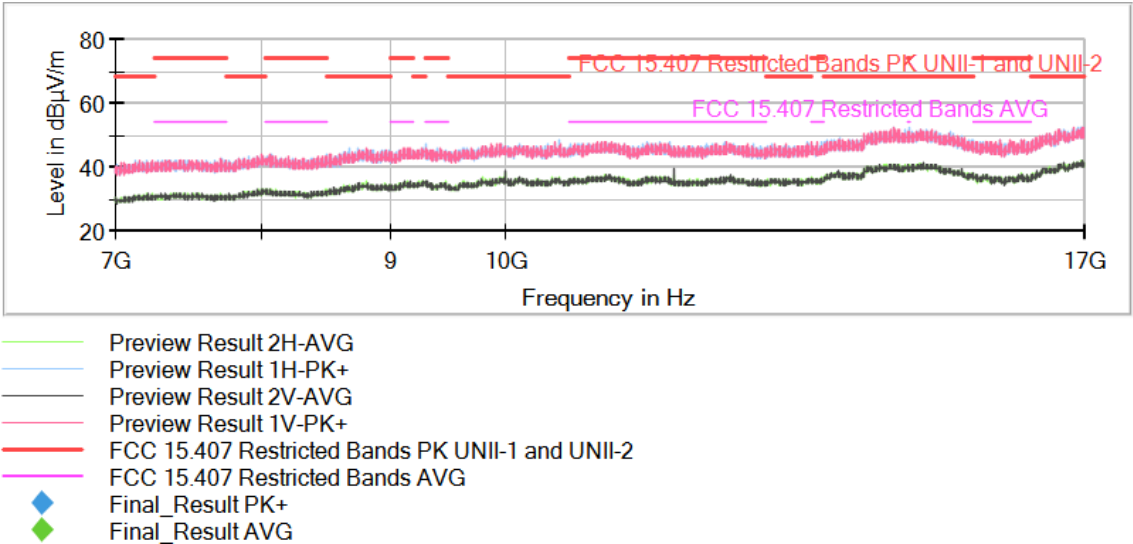
Tables:

Spectrum Analyzer Parameters

	Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
	Receiver: [ESW 44]					
	7 GHz - 17 GHz	333,333 kHz	PK+ ; AVG	1 MHz	1 s	0 dB

Operation Band MHz = [5150, 5250] Active Port = 1+2
Frequency Range GHz = [7, 17] Frequency MHz = 5240.00000
Modulation = 802.11ax HE20 (OFDMA MCS0) Resource Unit Tone/Index =
Subcarrier Mode = RU

Images:



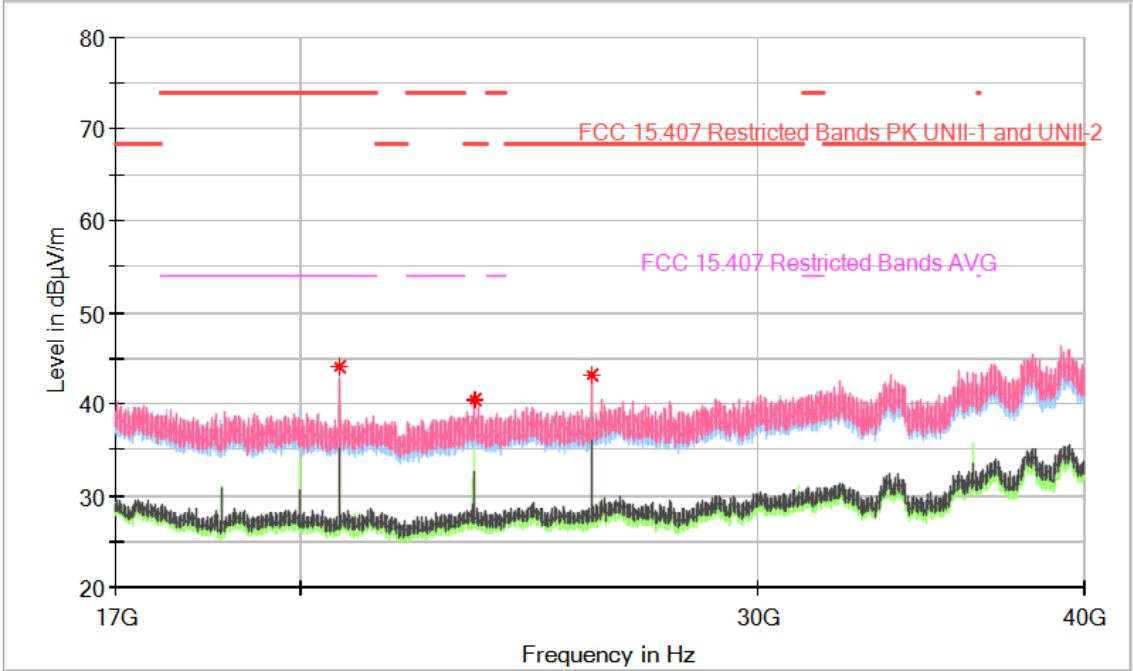
Tables:

Spectrum Analyzer Parameters

	Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
	Receiver: [ESW 44]					
	7 GHz - 17 GHz	333,333 kHz	PK+ ; AVG	1 MHz	1 s	0 dB

Operation Band MHz = [5150, 5250] Active Port = 1+2
Frequency Range GHz = [17, 40] Frequency MHz = 5180.00000
Modulation = 802.11ax HE20 (OFDMA MCS0) Resource Unit Tone/Index =
Subcarrier Mode = RU

Images:



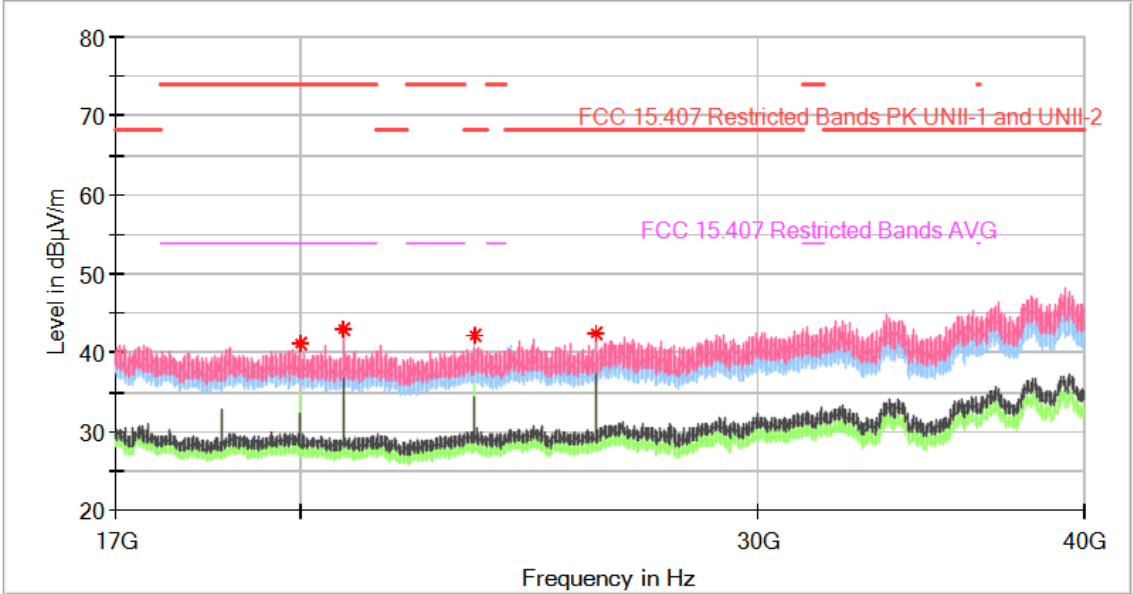
- Preview Result 2H-AVG
- Preview Result 1H-PK+
- Preview Result 2V-AVG
- Preview Result 1V-PK+
- Critical Freqs PK+
- FCC 15.407 Restricted Bands PK UNII-1 and UNII-2
- FCC 15.407 Restricted Bands AVG

Tables:
Spectrum Analyzer Parameters

	Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
	Receiver: [ESW 44]					
	17 GHz - 40 GHz	766,667 kHz	PK+ ; AVG	1 MHz	1 s	0 dB

Operation Band MHz = [5150, 5250] Active Port = 1+2
Frequency Range GHz = [17, 40] Frequency MHz = 5200.00000
Modulation = 802.11ax HE20 (OFDMA MCS0) Resource Unit Tone/Index =
Subcarrier Mode = RU

Images:



- Preview Result 2H-AVG
- Preview Result 1H-PK+
- Preview Result 2V-AVG
- Preview Result 1V-PK+
- Critical_Freqs AVG
- Critical_Freqs PK+
- FCC 15.407 Restricted Bands PK UNII-1 and UNII-2
- FCC 15.407 Restricted Bands AVG
- Final_Result PK+
- Final_Result AVG

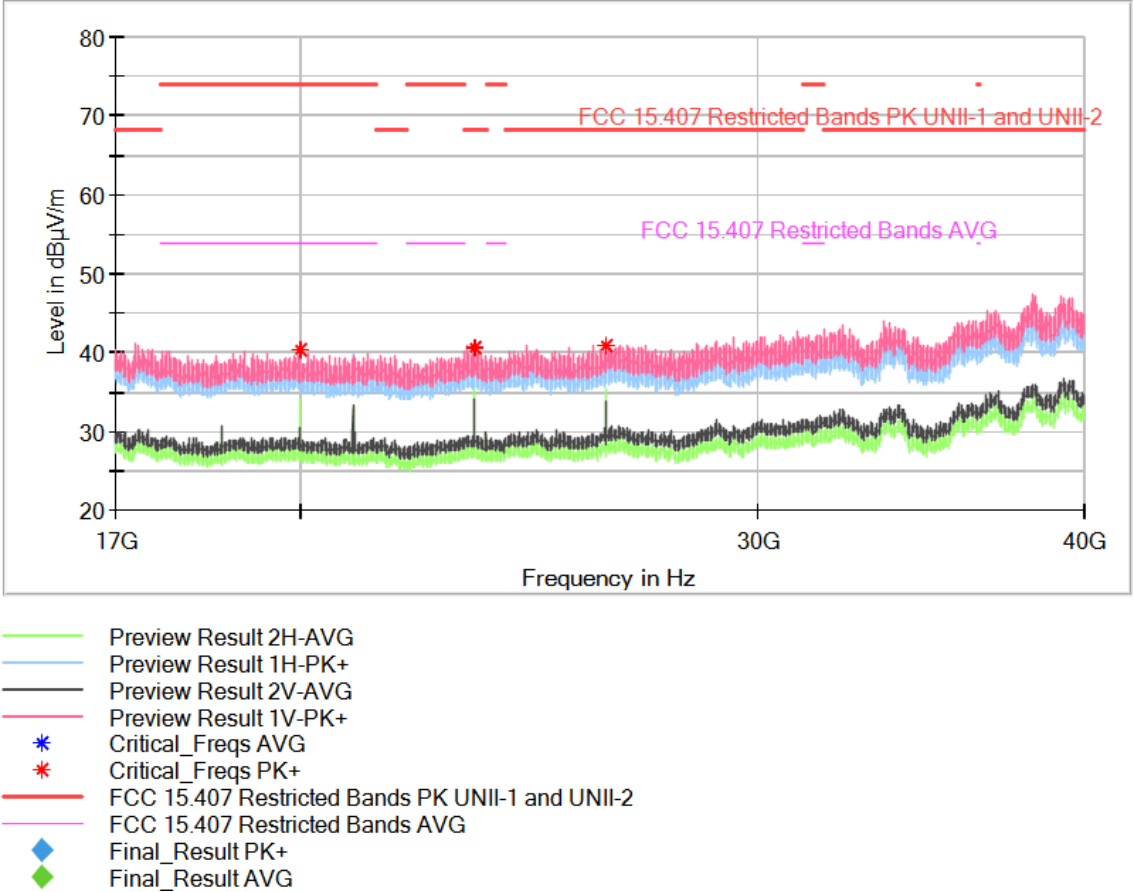
Tables:

Spectrum Analyzer Parameters

	Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
	Receiver: [ESW 44]					
	17 GHz - 40 GHz	766,667 kHz	PK+ ; AVG	1 MHz	1 s	0 dB

Operation Band MHz = [5150, 5250] Active Port = 1+2
Frequency Range GHz = [17, 40] Frequency MHz = 5240.00000
Modulation = 802.11ax HE20 (OFDMA MCS0) Resource Unit Tone/Index =
Subcarrier Mode = RU

Images:



Tables:
Spectrum Analyzer Parameters

	Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
	Receiver: [ESW 44]					
	17 GHz - 40 GHz	766,667 kHz	PK+ ; AVG	1 MHz	1 s	0 dB

RSS-247 7.3.1.3 / FCC 15.407 (b) (1) [Bndedge] Transmitter Out of Band Radiated Emissions for UNII-1

Limits

For transmitters operating in the 5.15–5.25 GHz band: all emissions outside of the 5.15–5.35 GHz band shall not exceed an EIRP of –27 dBm/MHz (68.20 dBμV/m at 3 m distance).

Radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)):

Frequency Range (MHz)	Field strength (μV/m)	Field strength (dBμV/m)	Measurement distance (m)
0.009-0.490	2400/F(kHz)	-	300
0.490-1.705	24000/F(kHz)	-	300
1.705 - 30.0	30	-	30
30 - 88	100	40	3
88 - 216	150	43.5	3
216 - 960	200	46	3
960 - 40000	500	54	3

The emission limits shown in the above table are based on measurements employing CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

For average radiated emission measurements above 1000 MHz, there is also a limit corresponding to 20 dB above the indicated values in the table is specified when measuring with peak detector function.

RSS 247: Any unwanted emissions that fall into the band 5250-5350 MHz shall be attenuated below the channel power by at least 26 dB, when measured using a resolution bandwidth between 1 and 5% of the occupied bandwidth (i.e. 99% bandwidth), above 5250 MHz.

Modulation: 802.11n HT20 (OFDM MCS0)

SISO and MIMO Mode:

Results

Operation Band (MHz)	Port	Freq Rng (GHz)	Freq (MHz)	Unwanted Freq (MHz)	Unwanted Lvl (dBμV/m)	Pol	Detector
[5150, 5250]	2	[1, 7]	5180.00000	5148.800	69.54	H	PK
[5150, 5250]	2	[1, 7]	5180.00000	5148.800	53.23	H	AVG
[5150, 5250]	2	[1, 7]	5200.00000	5147.304	60.32	H	PK
[5150, 5250]	2	[1, 7]	5200.00000	5147.304	44.10	H	AVG
[5150, 5250]	2	[1, 7]	5240.00000	5433.600	53.75	V	PK
[5150, 5250]	2	[1, 7]	5240.00000	5433.600	43.93	V	AVG

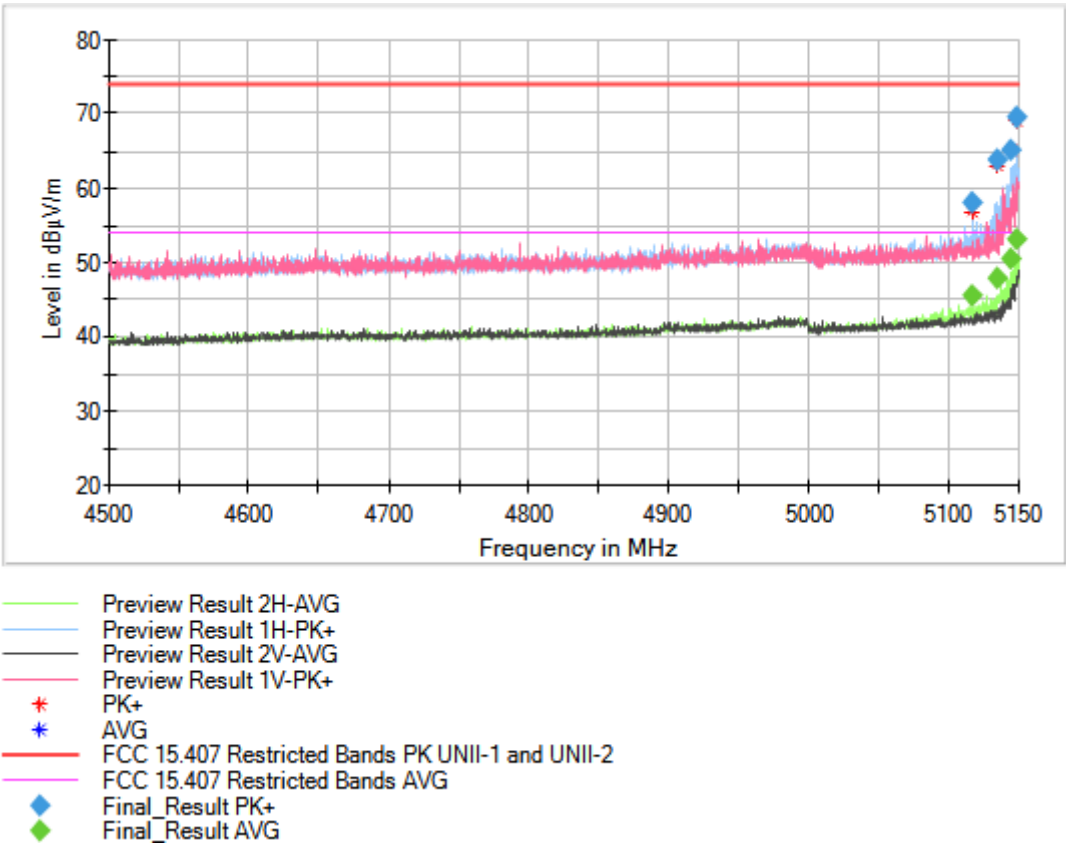
Verdict

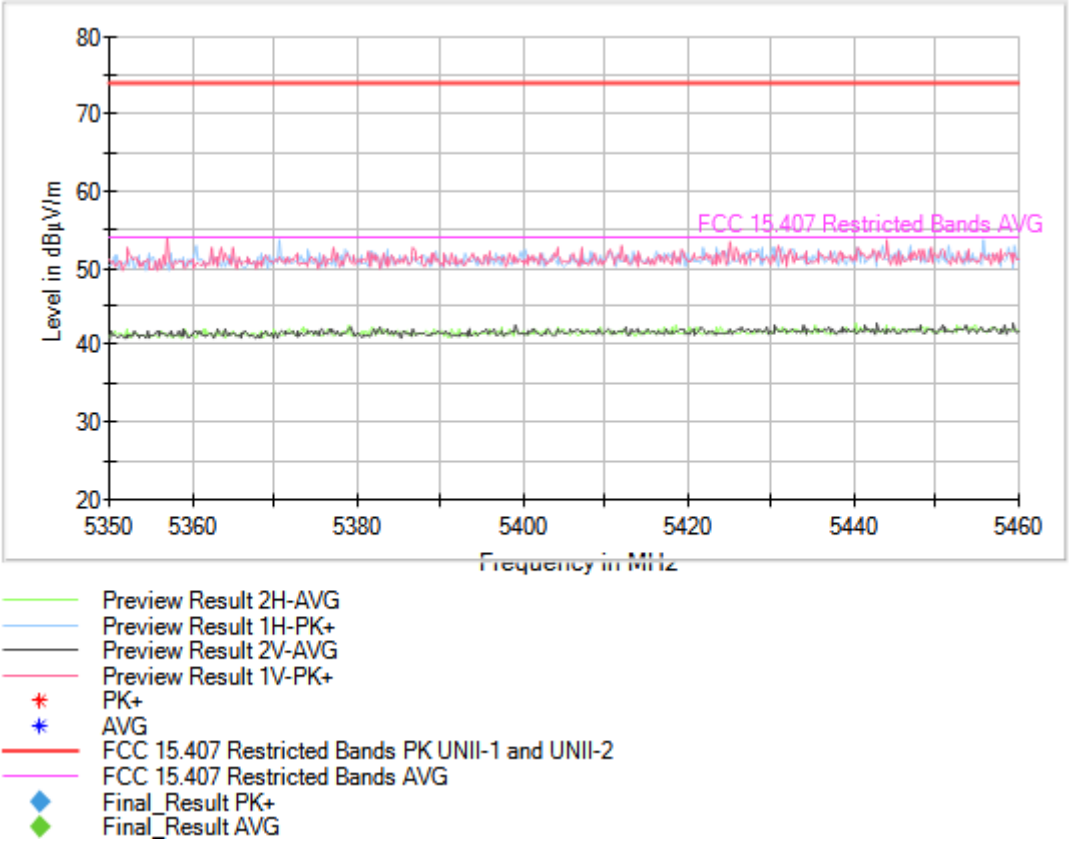
Pass

Attachments

Operation Band MHz = [5150, 5250] Active Port = 2
Frequency Range GHz = [1, 7] Frequency MHz = 5180.00000
Modulation = 802.11n HT20 (OFDM MCS0) Resource Unit Tone/Index = -

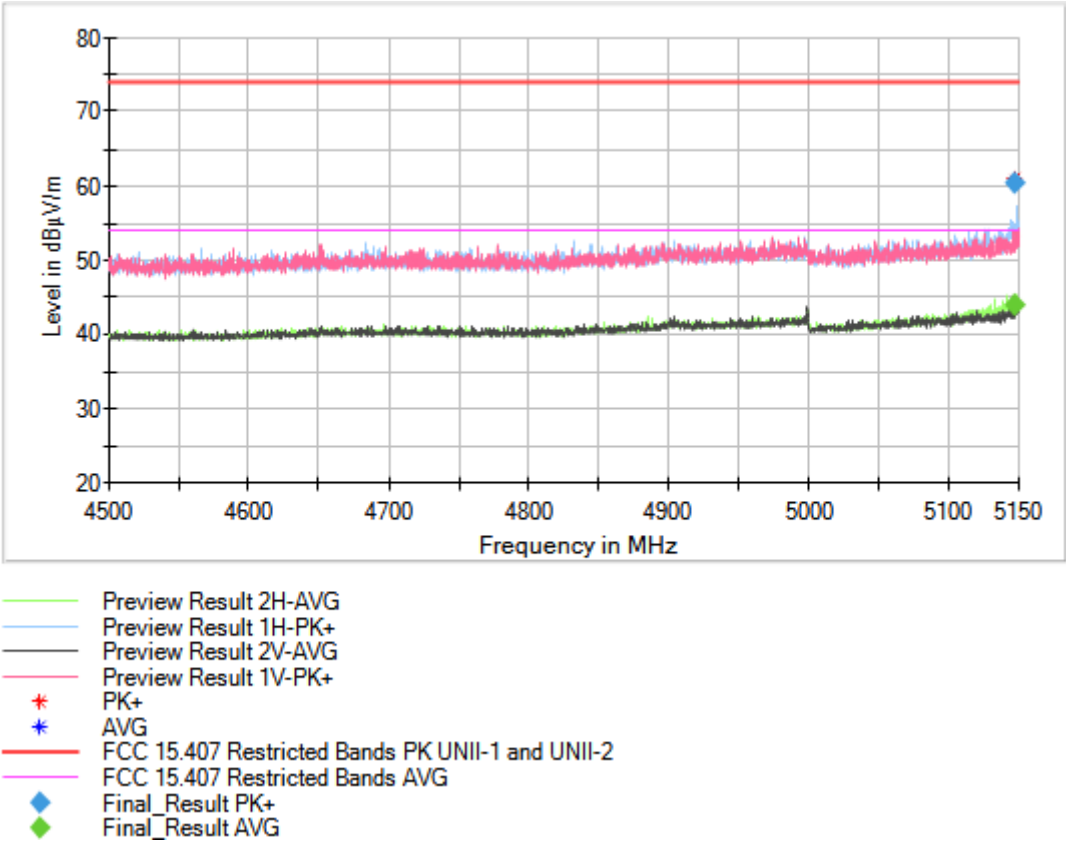
Images:

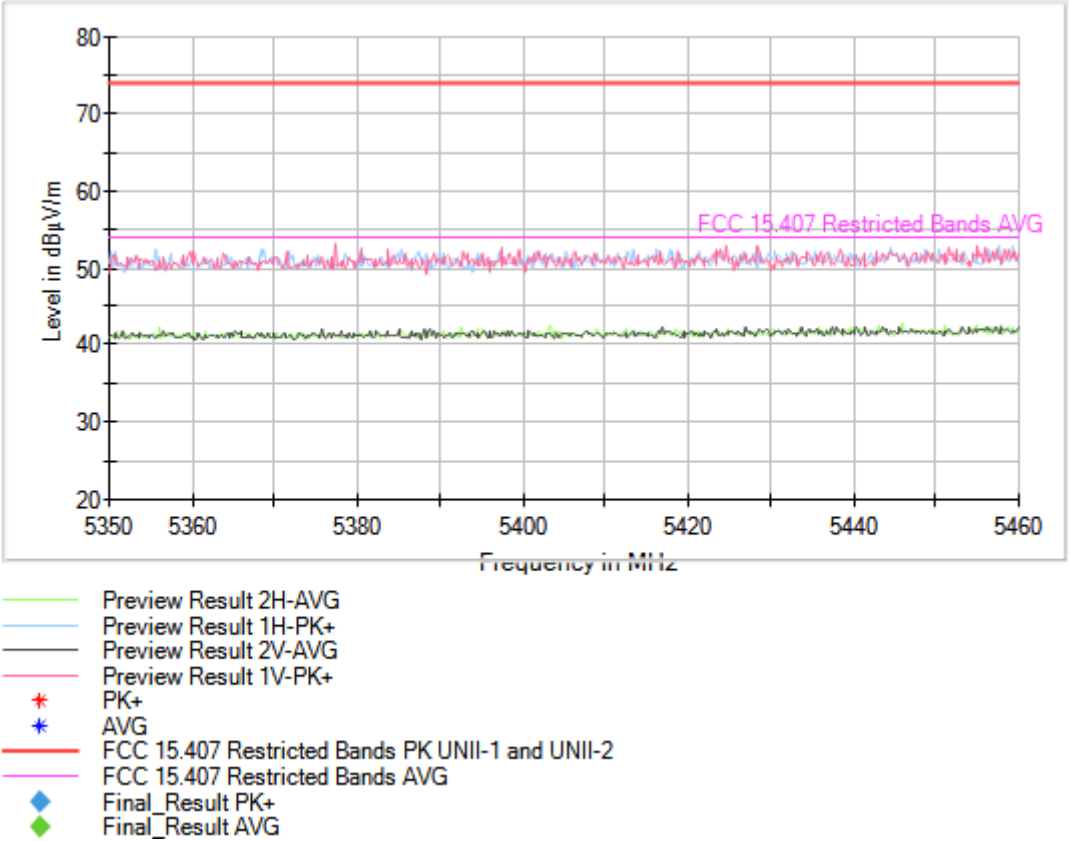




Operation Band MHz = [5150, 5250] Active Port = 2
Frequency Range GHz = [1, 7] Frequency MHz = 5200.00000
Modulation = 802.11n HT20 (OFDM MCS0) Resource Unit Tone/Index = -

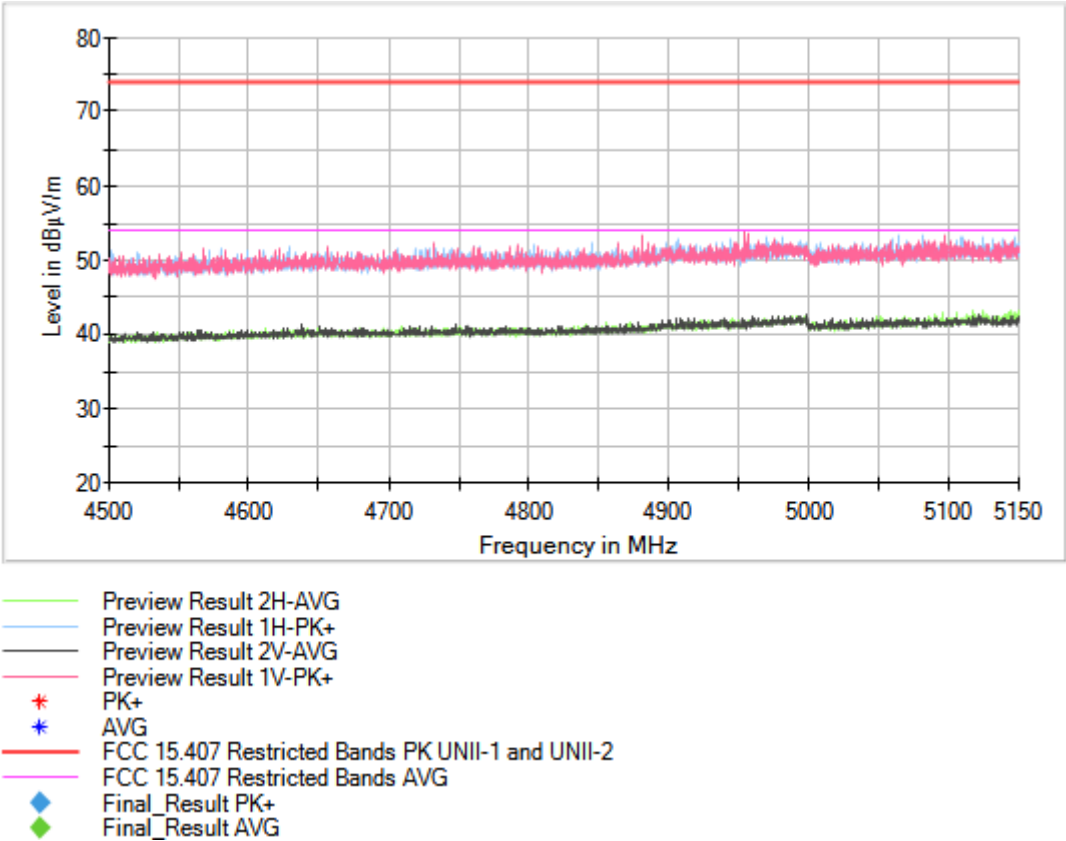
Images:

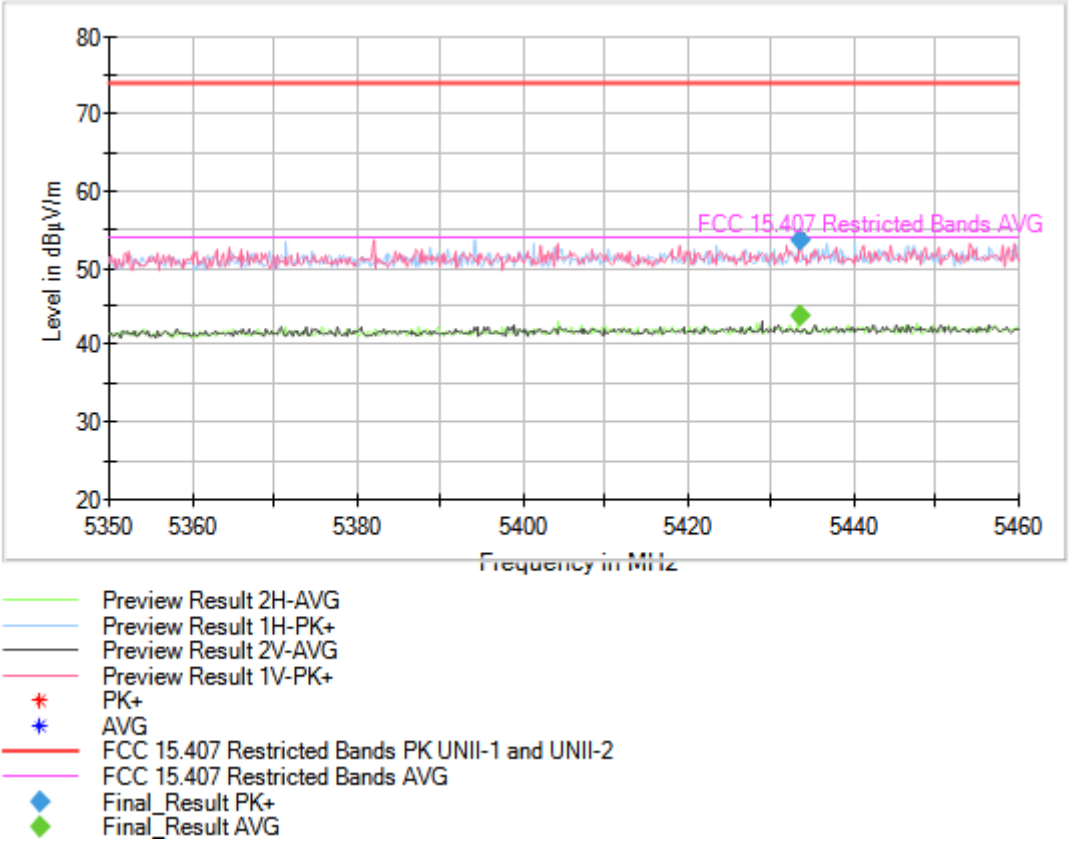




Operation Band MHz = [5150, 5250] Active Port = 2
Frequency Range GHz = [1, 7] Frequency MHz = 5240.00000
Modulation = 802.11n HT20 (OFDM MCS0) Resource Unit Tone/Index = -

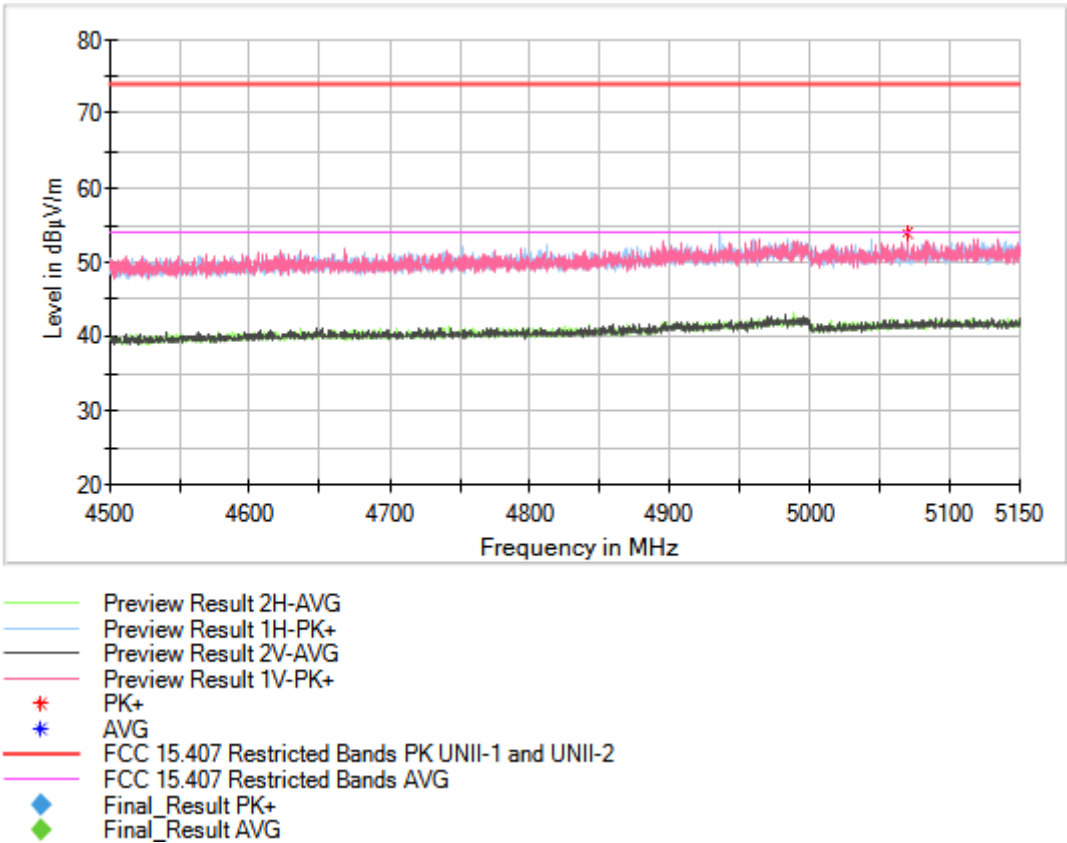
Images:

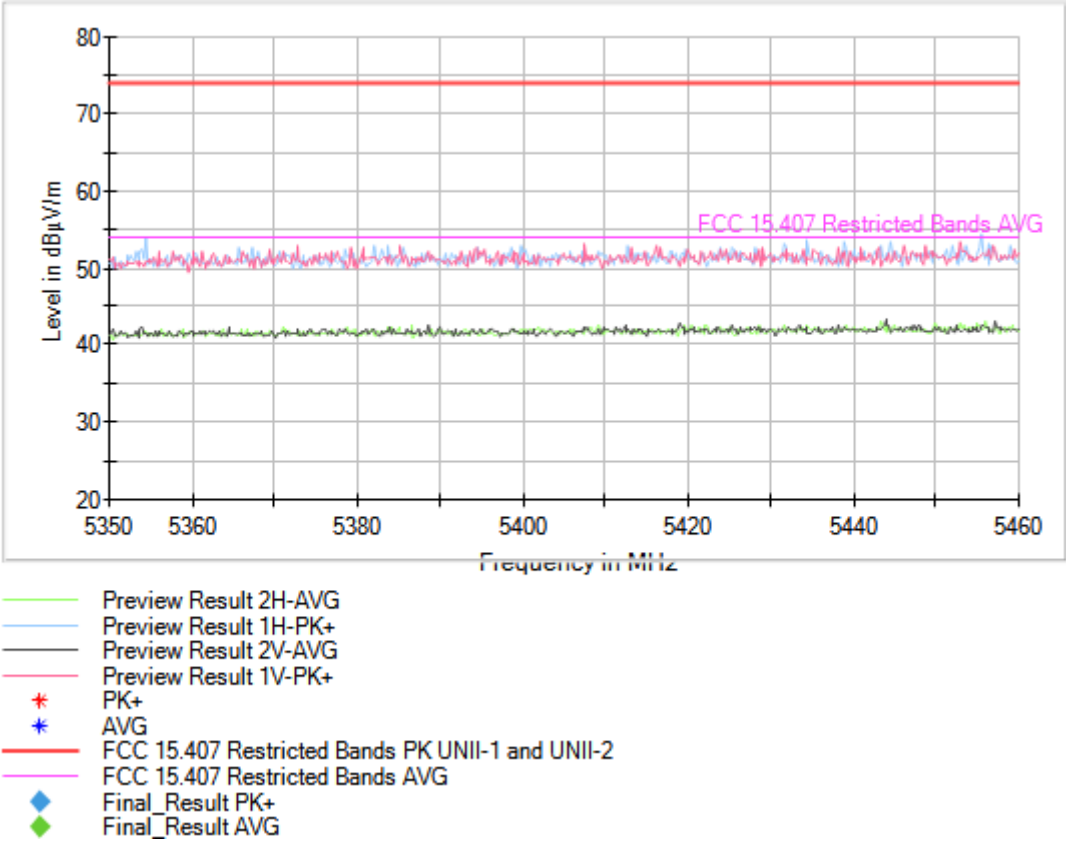




Operation Band MHz = [5150, 5250] Active Port = 1+2
Frequency Range GHz = [1, 7] Frequency MHz = 5180.00000
Modulation = 802.11n HT20 (OFDM MCS0) Resource Unit Tone/Index = -

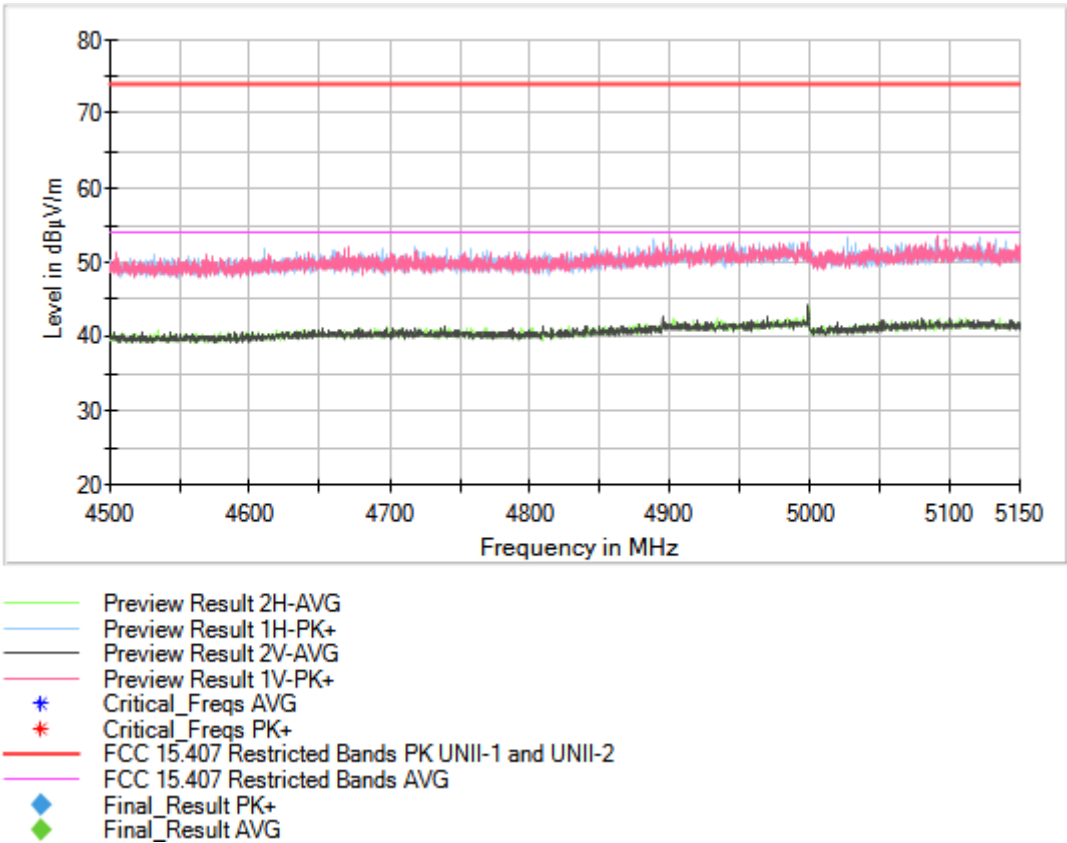
Images:

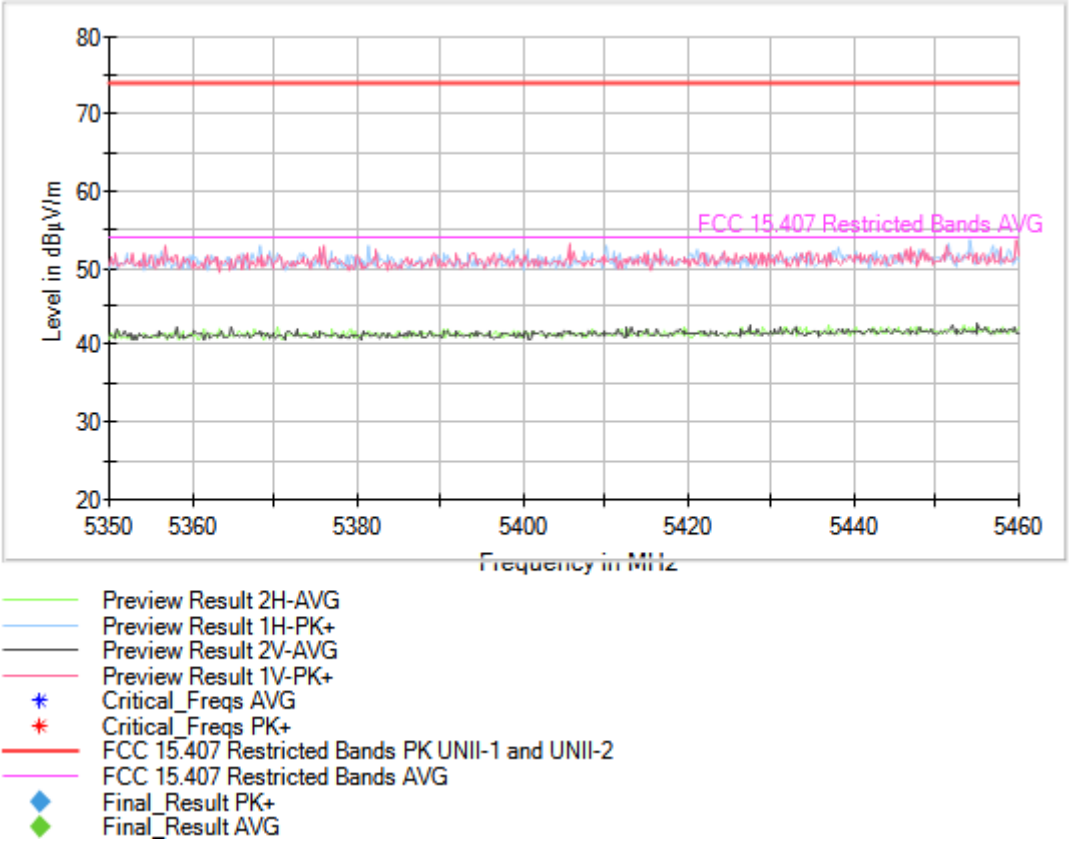




Operation Band MHz = [5150, 5250] Active Port = 1+2
Frequency Range GHz = [1, 7] Frequency MHz = 5200.00000
Modulation = 802.11n HT20 (OFDM MCS0) Resource Unit Tone/Index = -

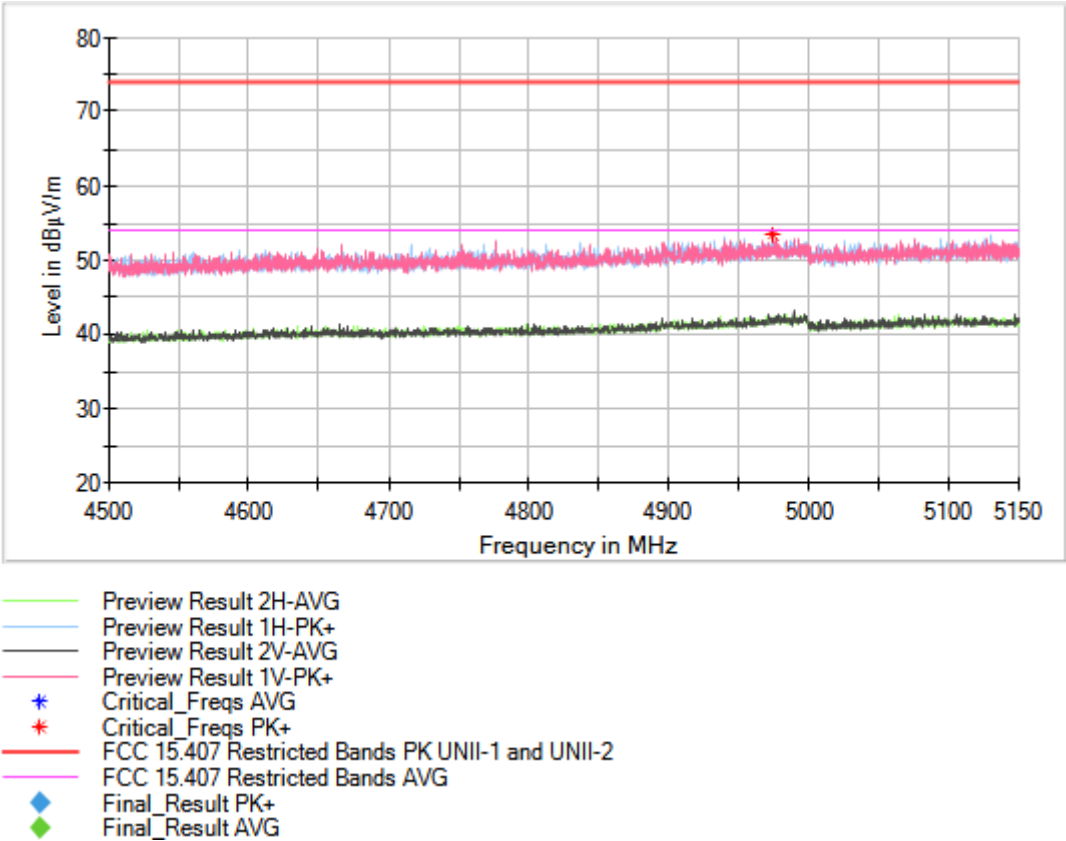
Images:

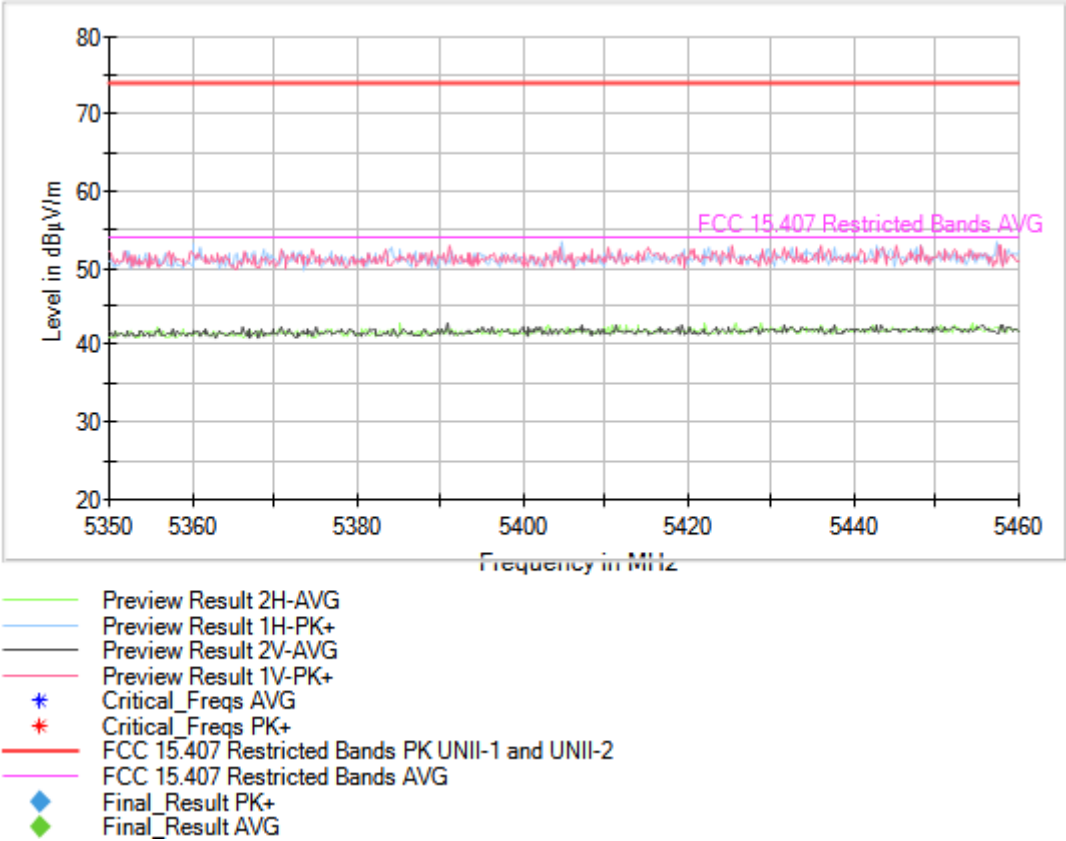




Operation Band MHz = [5150, 5250] Active Port = 1+2
Frequency Range GHz = [1, 7] Frequency MHz = 5240.00000
Modulation = 802.11n HT20 (OFDM MCS0) Resource Unit Tone/Index = -

Images:





Modulation: 802.11n HT40 (OFDM MCS0)

Results

Operation Band (MHz)	Port	Freq Rng (GHz)	Freq (MHz)	RU (Tone/Index)	Unwanted Freq (MHz)	Unwanted Lvl (dBµV/m)	Pol	Detector
[5150, 5250]	1+2	[1, 7]	5230.00000	-	5442.000	53.82	H	PK
					5442.000	44.09	H	AVG

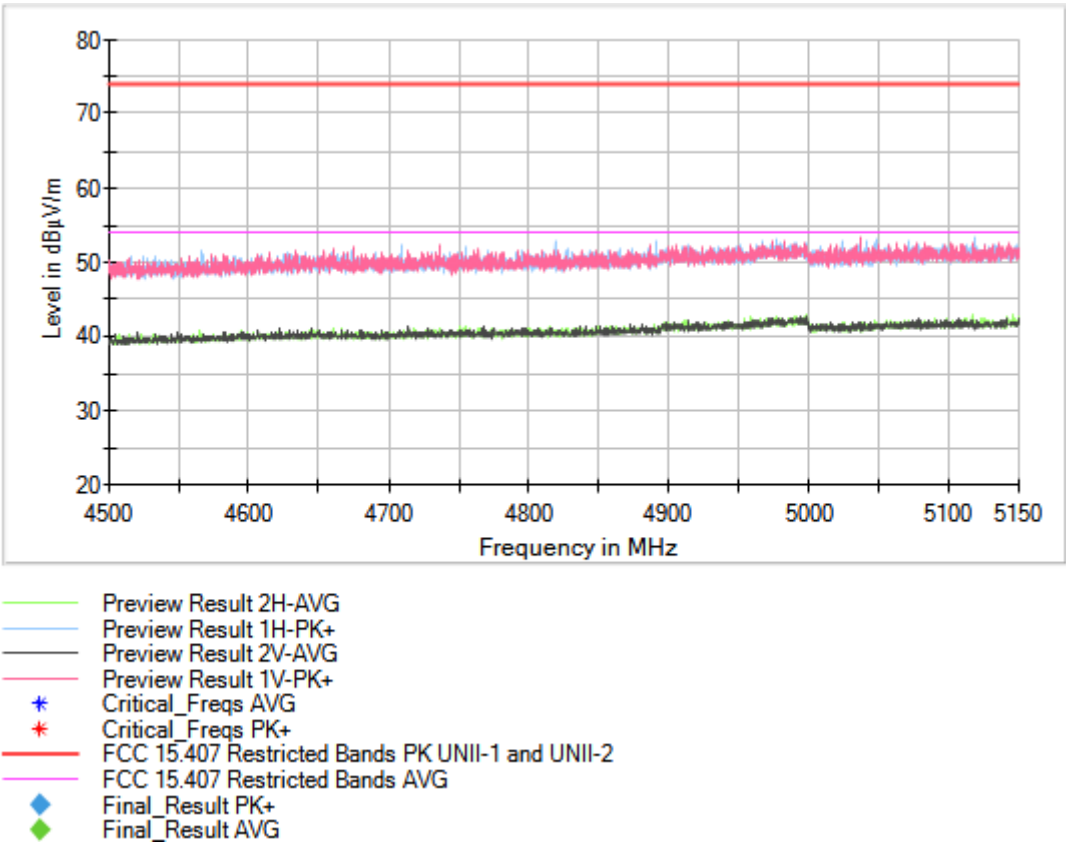
Verdict

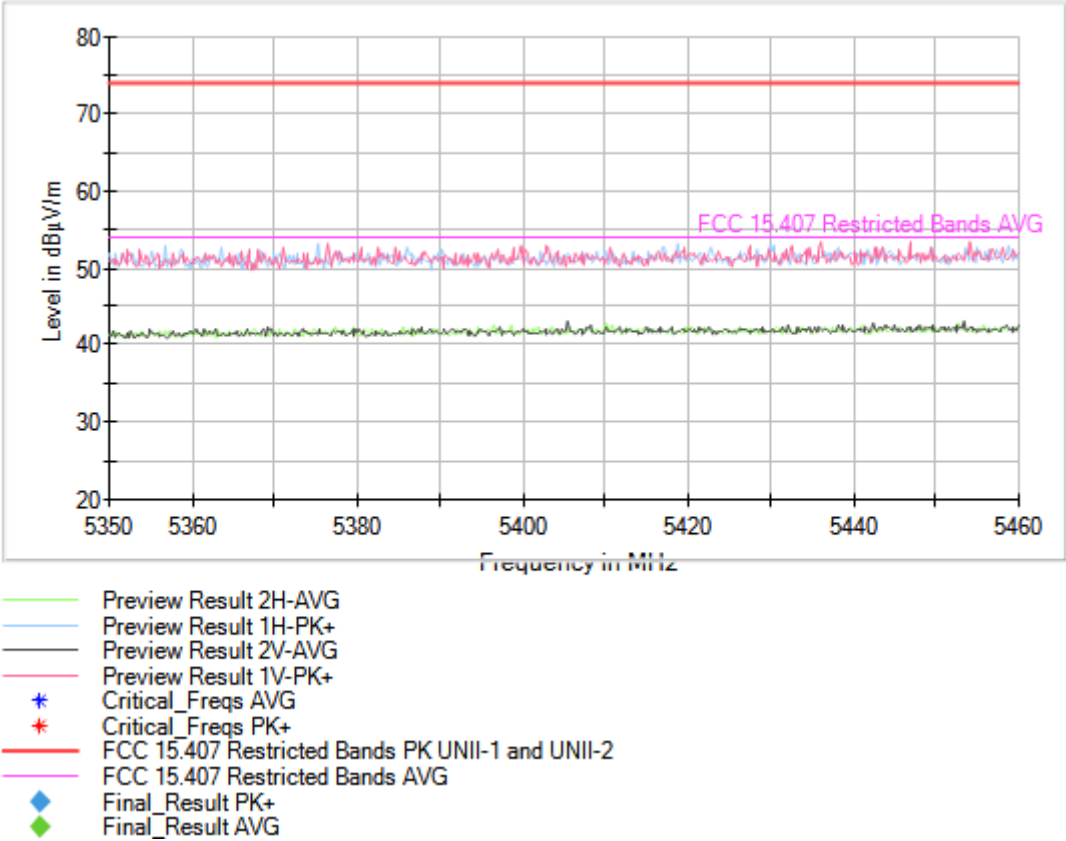
Pass

Attachments

Operation Band MHz = [5150, 5250] Active Port = 1+2
Frequency Range GHz = [1, 7] Frequency MHz = 5190.00000
Modulation = 802.11n HT40 (OFDM MCS0) Resource Unit Tone/Index = -

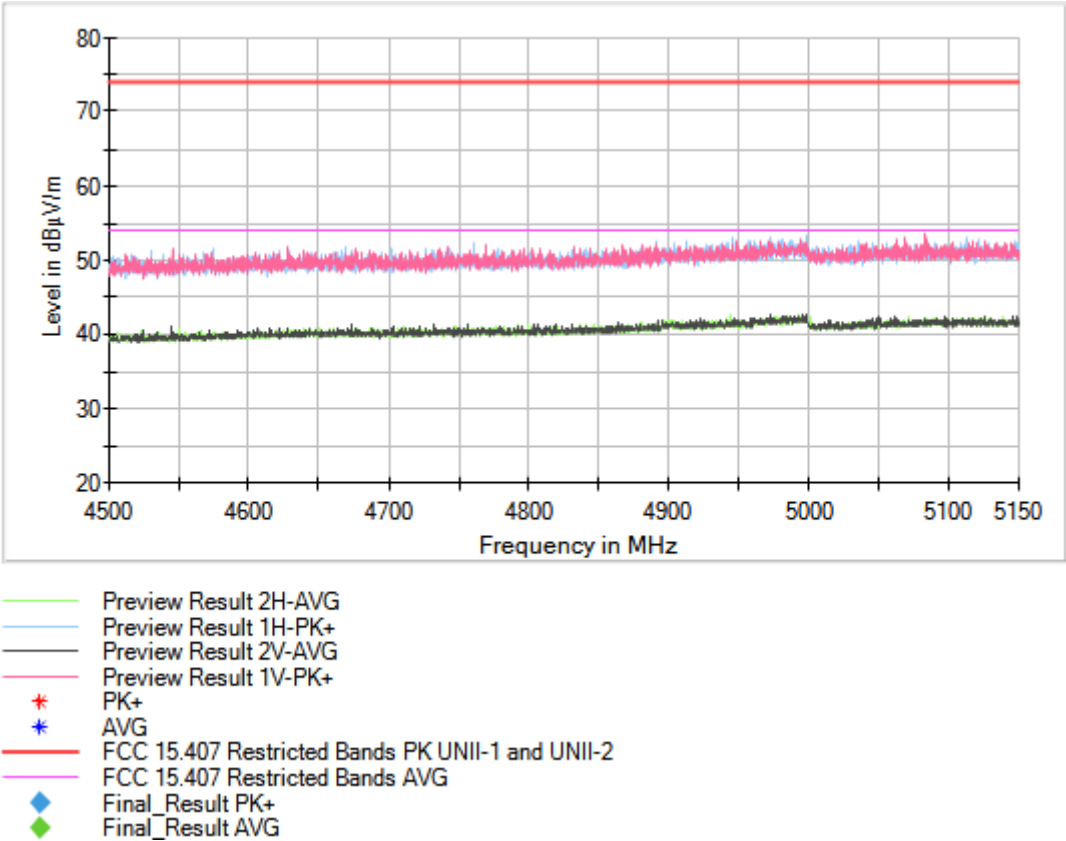
Images:

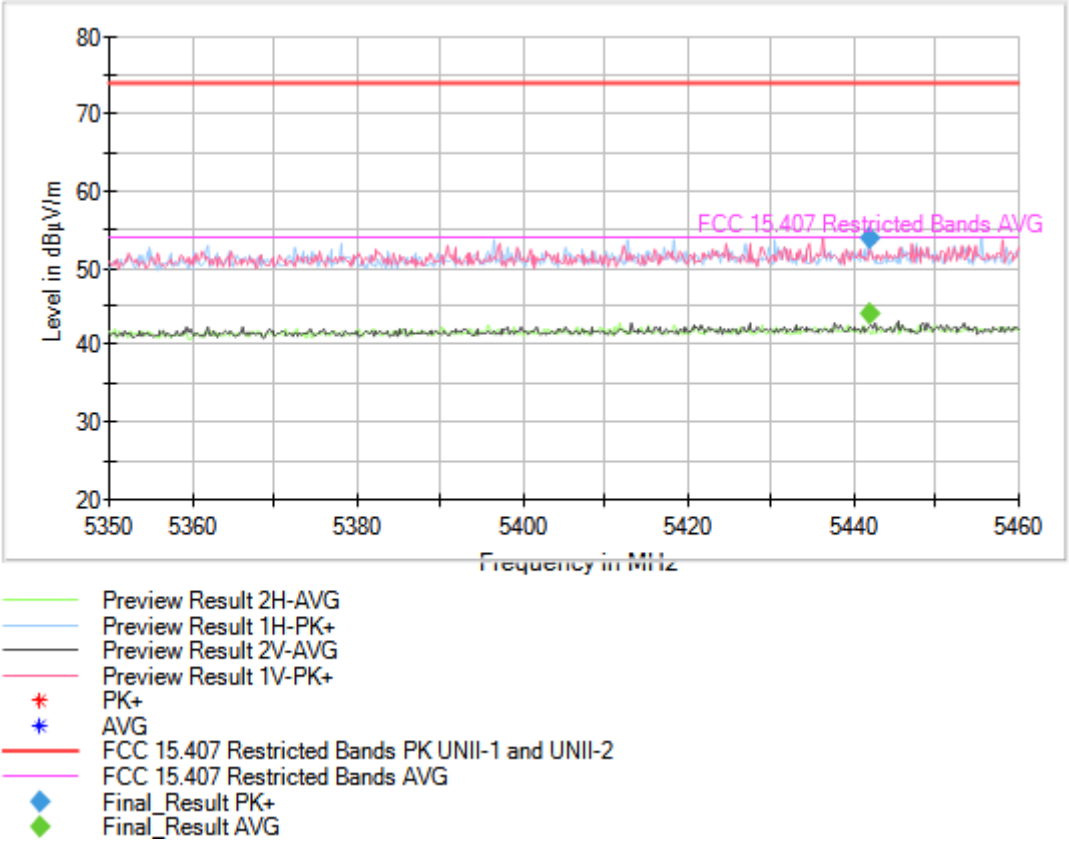




Operation Band MHz = [5150, 5250] Active Port = 1+2
Frequency Range GHz = [1, 7] Frequency MHz = 5230.00000
Modulation = 802.11n HT40 (OFDM MCS0) Resource Unit Tone/Index = -

Images:





Modulation: 802.11a (OFDM 6 Mbit/s)

Results

Operation Band (MHz)	Port	Freq Rng (GHz)	Freq (MHz)	Unwanted Freq (MHz)	Unwanted Lvl (dBµV/m)	Pol	Detector
[5150, 5250]	2	[1, 7]	5180.00000	5093.088	52.96	H	PK
[5150, 5250]	2	[1, 7]	5180.00000	5093.088	42.36	H	AVG
[5150, 5250]	2	[1, 7]	5180.00000	5122.990	58.44	H	PK
[5150, 5250]	2	[1, 7]	5180.00000	5122.990	44.53	H	AVG
[5150, 5250]	2	[1, 7]	5180.00000	5138.935	61.30	H	PK
[5150, 5250]	2	[1, 7]	5180.00000	5138.935	44.48	H	AVG
[5150, 5250]	2	[1, 7]	5180.00000	5149.860	66.46	H	PK
[5150, 5250]	2	[1, 7]	5180.00000	5149.860	50.91	H	AVG
[5150, 5250]	2	[1, 7]	5200.00000	5138.819	57.18	H	PK
[5150, 5250]	2	[1, 7]	5200.00000	5138.819	43.33	H	AVG
[5150, 5250]	2	[1, 7]	5200.00000	5144.280	58.18	H	PK
[5150, 5250]	2	[1, 7]	5200.00000	5144.280	43.51	H	AVG
[5150, 5250]	2	[1, 7]	5200.00000	5149.732	58.54	H	PK
[5150, 5250]	2	[1, 7]	5200.00000	5149.732	43.16	H	AVG

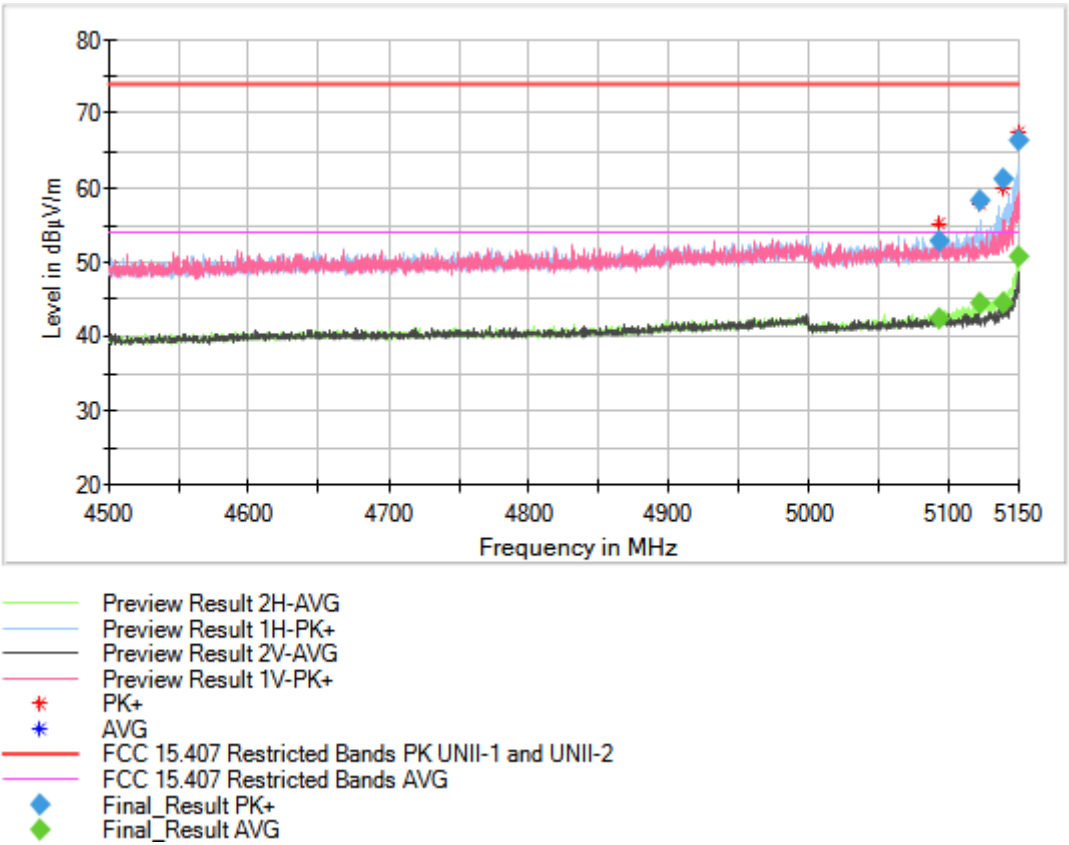
Verdict

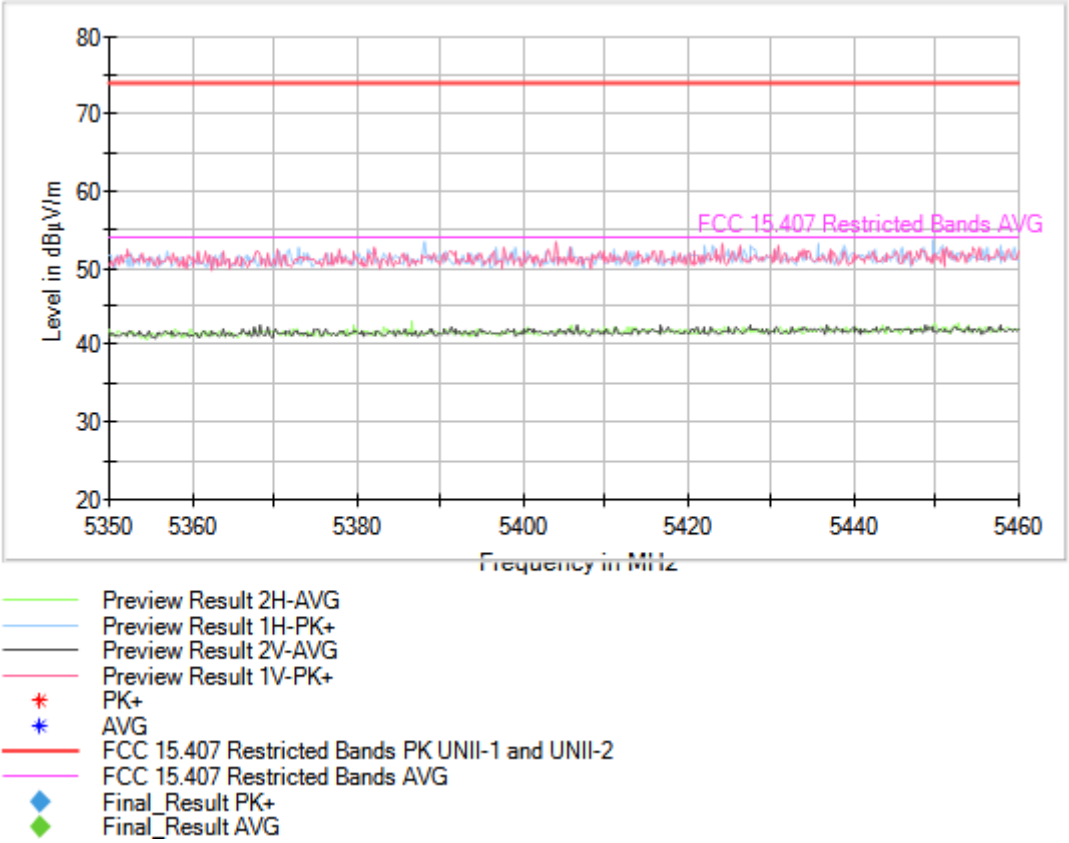
Pass

Attachments

Operation Band MHz = [5150, 5250] Active Port = 2
Frequency Range GHz = [1, 7] Frequency MHz = 5180.00000
Modulation = 802.11a (OFDM 6 Mbit/s) Resource Unit Tone/Index = -

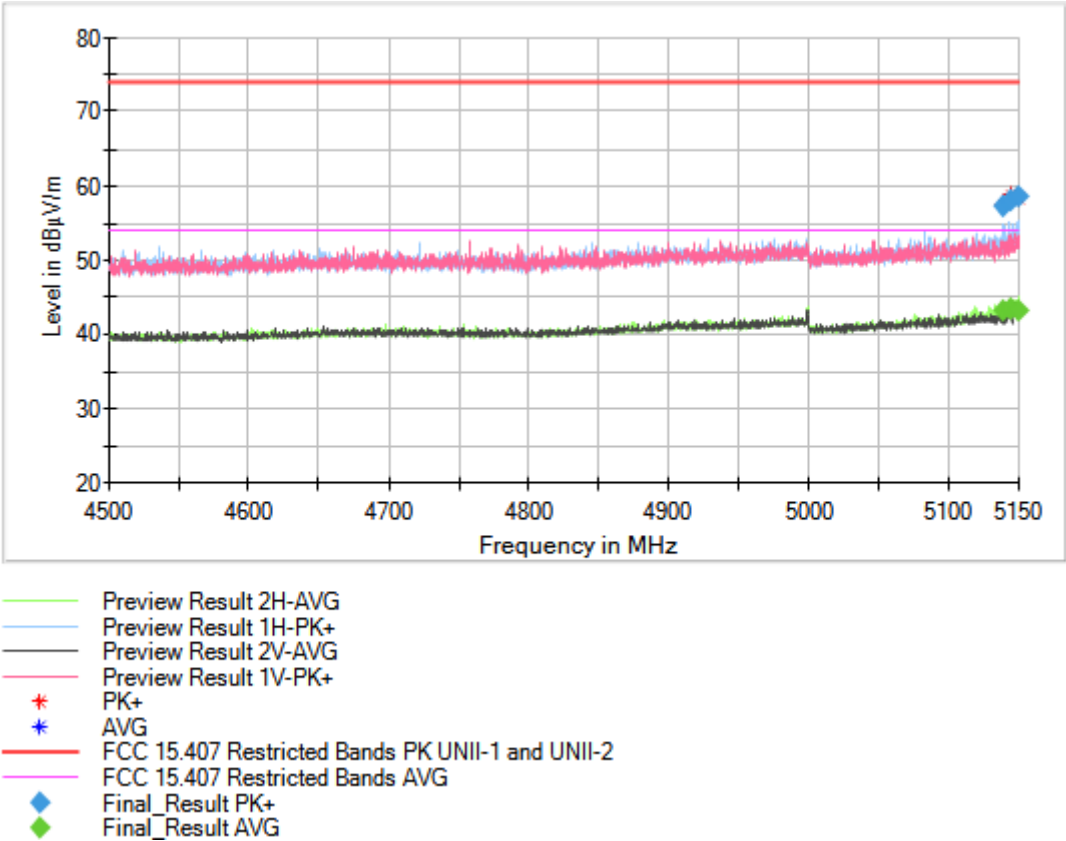
Images:

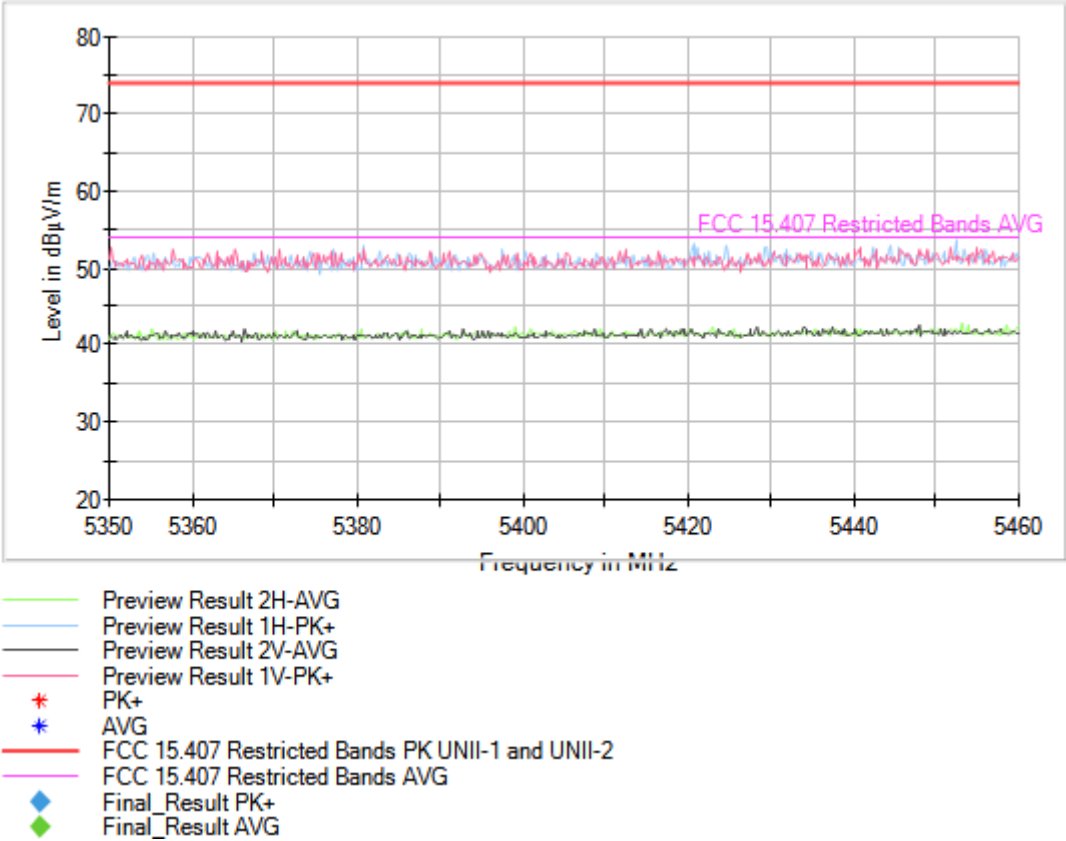




Operation Band MHz = [5150, 5250] Active Port = 2
Frequency Range GHz = [1, 7] Frequency MHz = 5200.00000
Modulation = 802.11a (OFDM 6 Mbit/s) Resource Unit Tone/Index = -

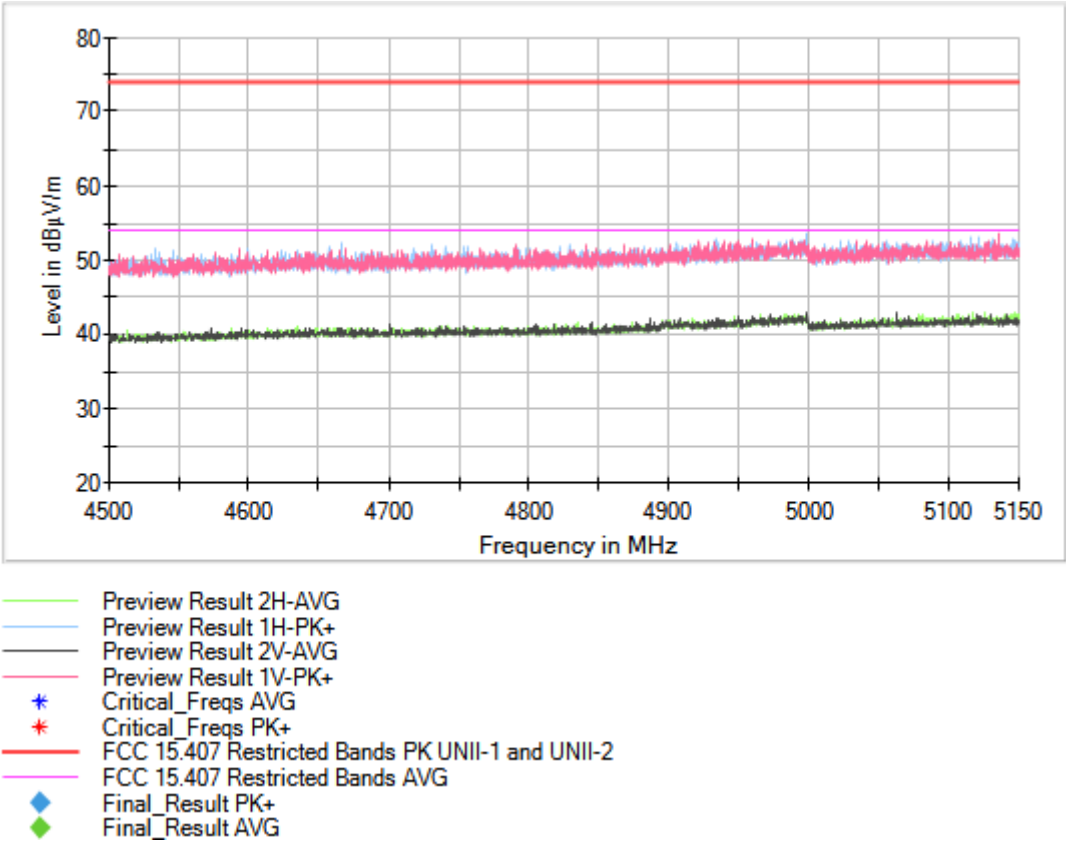
Images:

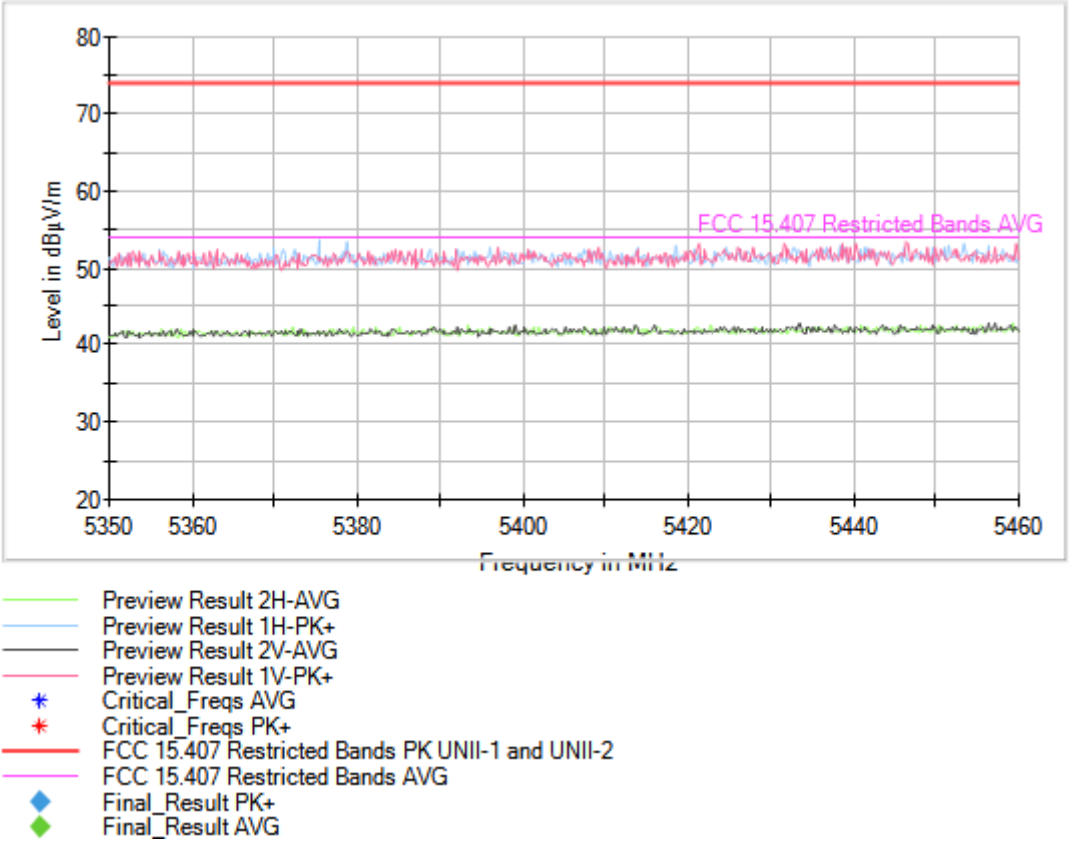




Operation Band MHz = [5150, 5250] Active Port = 2
Frequency Range GHz = [1, 7] Frequency MHz = 5240.00000
Modulation = 802.11a (OFDM 6 Mbit/s) Resource Unit Tone/Index = -

Images:





Modulation: 802.11ac VHT20 (OFDM MCS0)

Results

Operation Band (MHz)	Port	Freq Rng (GHz)	Freq (MHz)	Unwanted Freq (MHz)	Unwanted Lvl (dBµV/m)	Pol	Detector
[5150, 5250]	2	[1, 7]	5180.00000	5141.400	60.37	H	PK
[5150, 5250]	2	[1, 7]	5180.00000	5141.400	45.60	H	AVG
[5150, 5250]	2	[1, 7]	5180.00000	5144.800	62.60	H	PK
[5150, 5250]	2	[1, 7]	5180.00000	5144.800	47.80	H	AVG
[5150, 5250]	2	[1, 7]	5180.00000	5147.200	63.86	H	PK
[5150, 5250]	2	[1, 7]	5180.00000	5147.200	48.26	H	AVG
[5150, 5250]	2	[1, 7]	5180.00000	5149.800	61.72	V	PK
[5150, 5250]	2	[1, 7]	5180.00000	5149.800	46.51	V	AVG

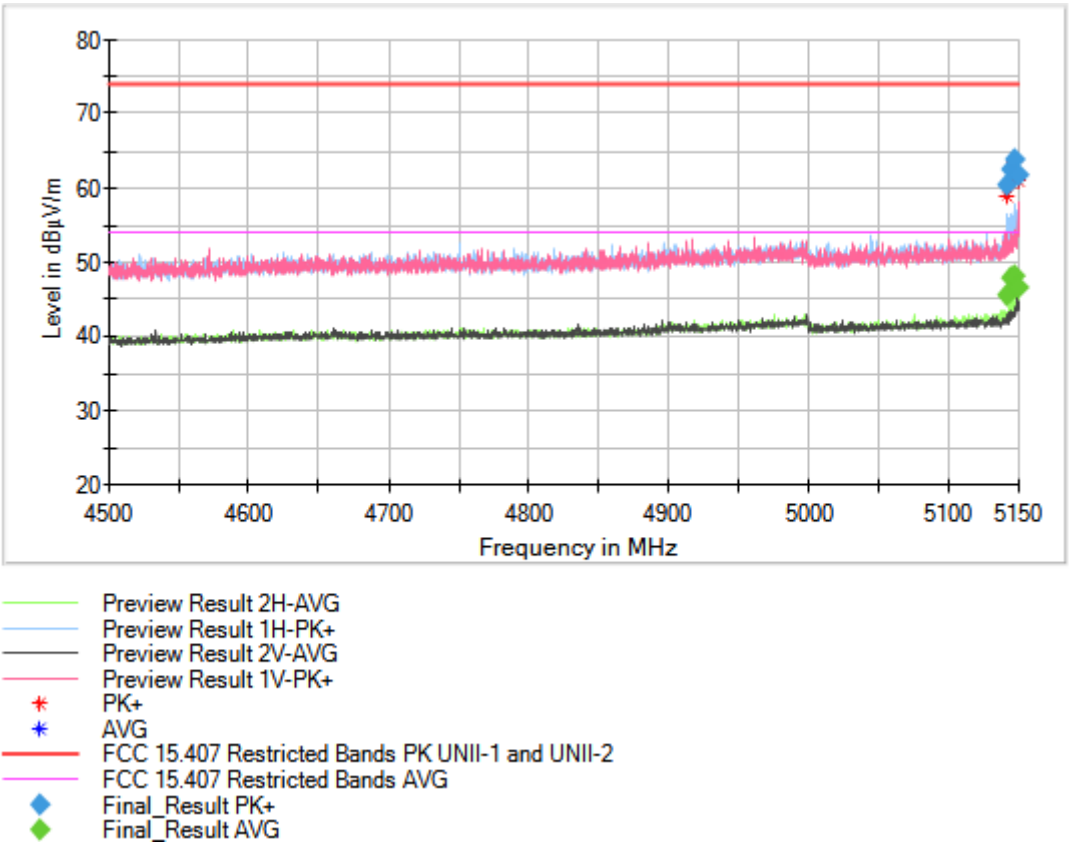
Verdict

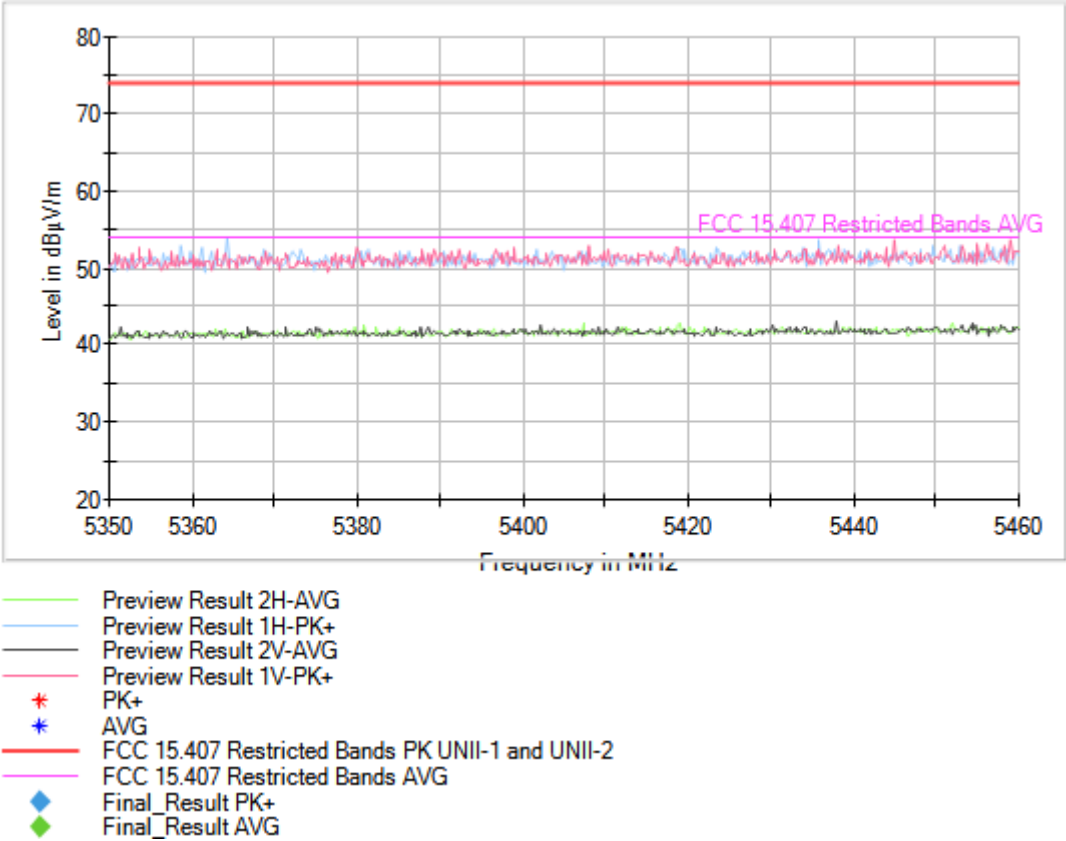
Pass

Attachments

Operation Band MHz = [5150, 5250] Active Port = 2
Frequency Range GHz = [1, 7] Frequency MHz = 5180.00000
Modulation = 802.11ac VHT20 (OFDM MCS0) Resource Unit Tone/Index = -

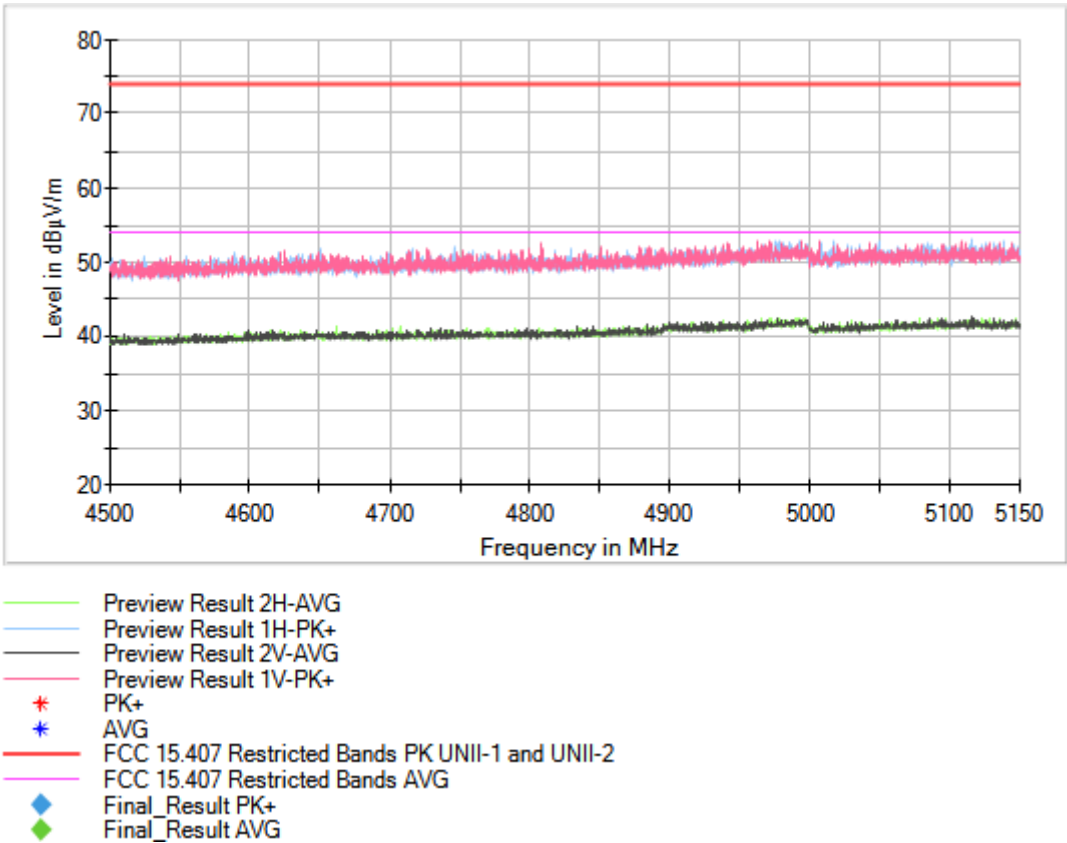
Images:

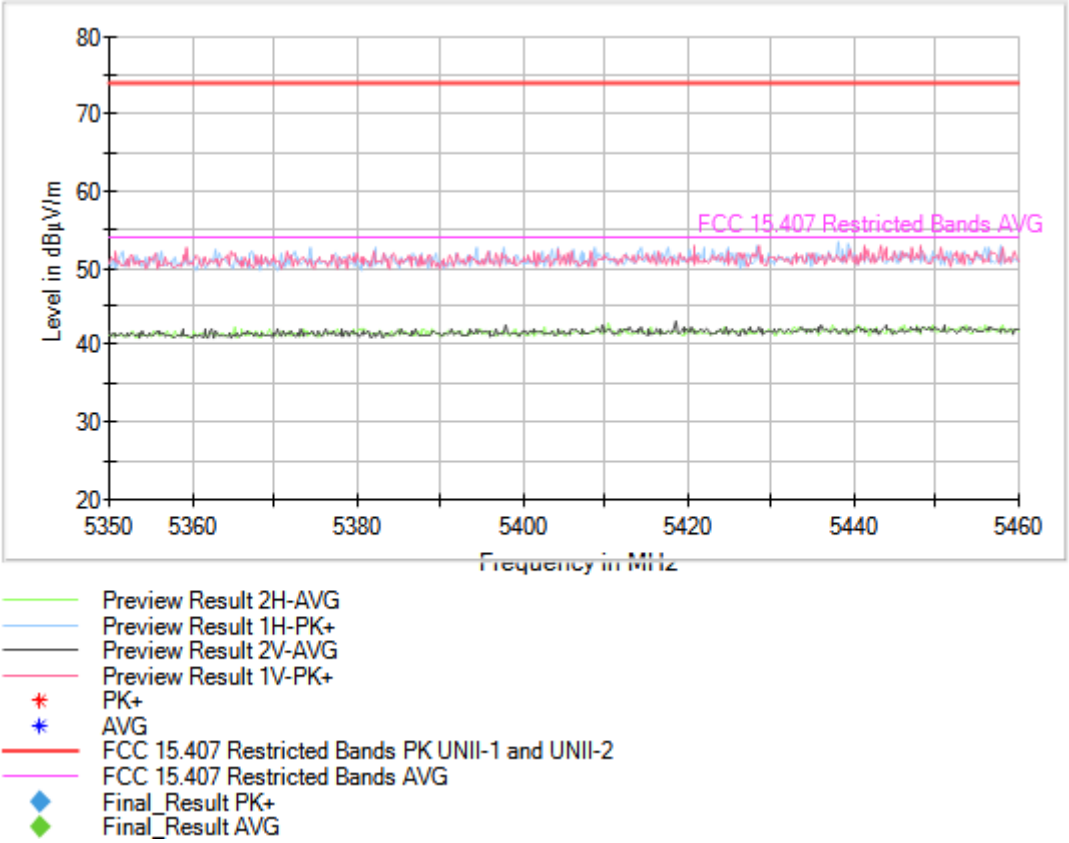




Operation Band MHz = [5150, 5250] Active Port = 2
Frequency Range GHz = [1, 7] Frequency MHz = 5240.00000
Modulation = 802.11ac VHT20 (OFDM MCS0) Resource Unit Tone/Index = -

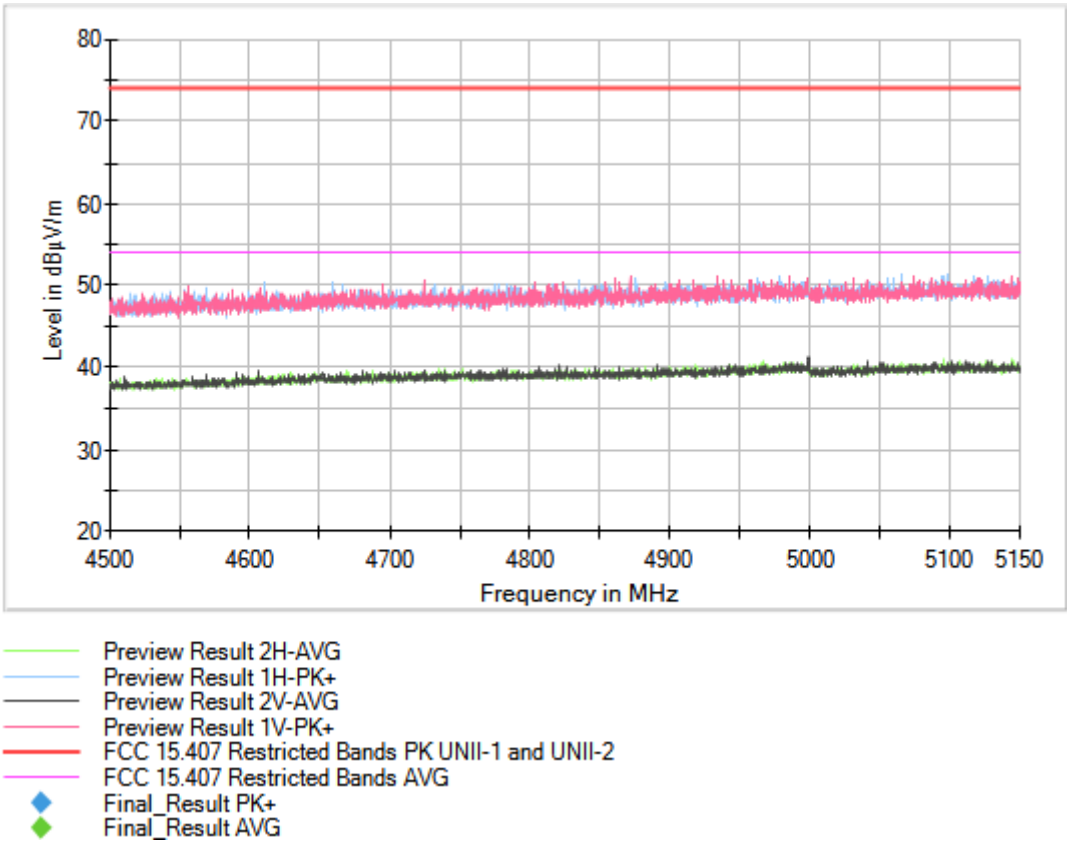
Images:

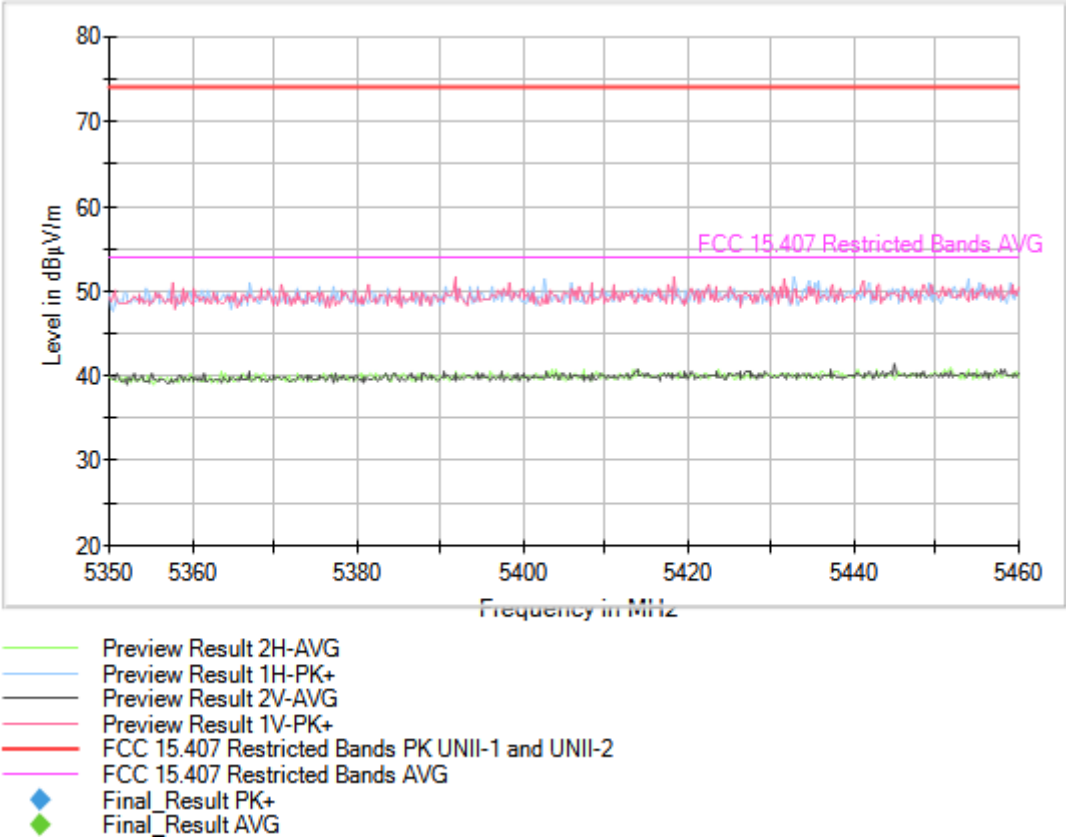




Operation Band MHz = [5150, 5250] Active Port = 1+2
Frequency Range GHz = [1, 7] Frequency MHz = 5180.00000
Modulation = 802.11ac VHT20 (OFDM MCS0) Resource Unit Tone/Index = -

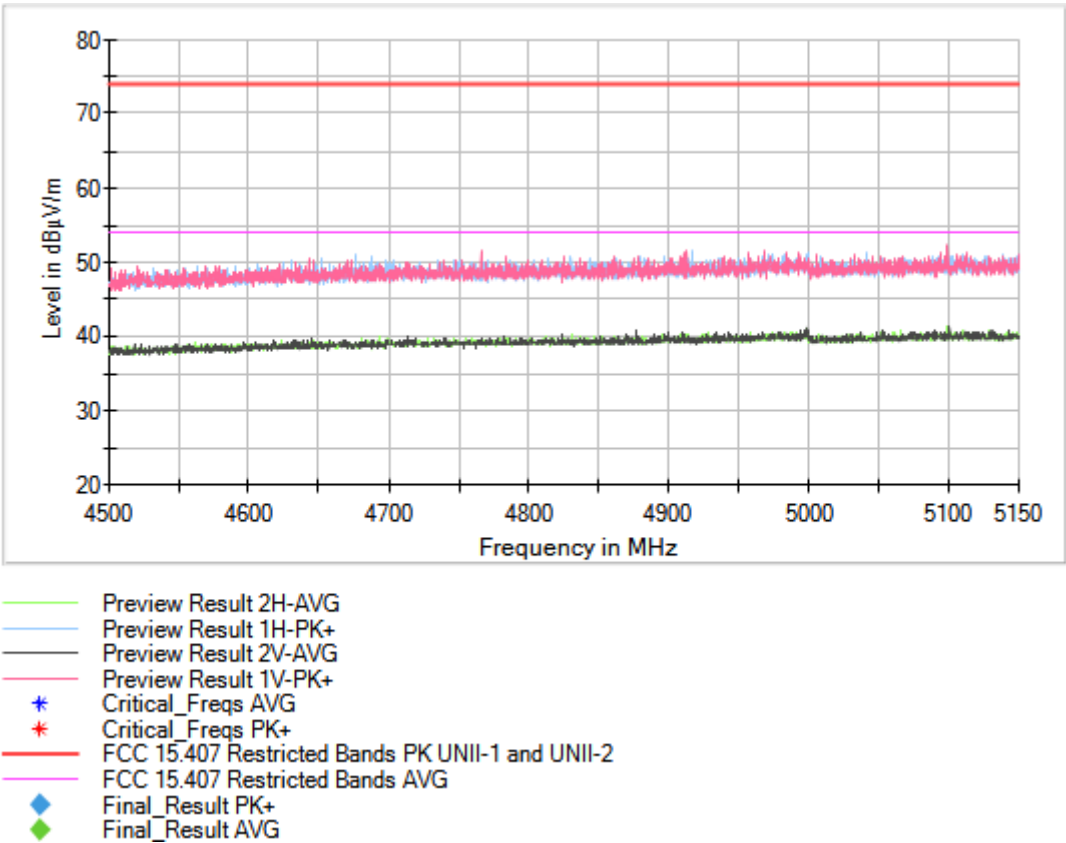
Images:

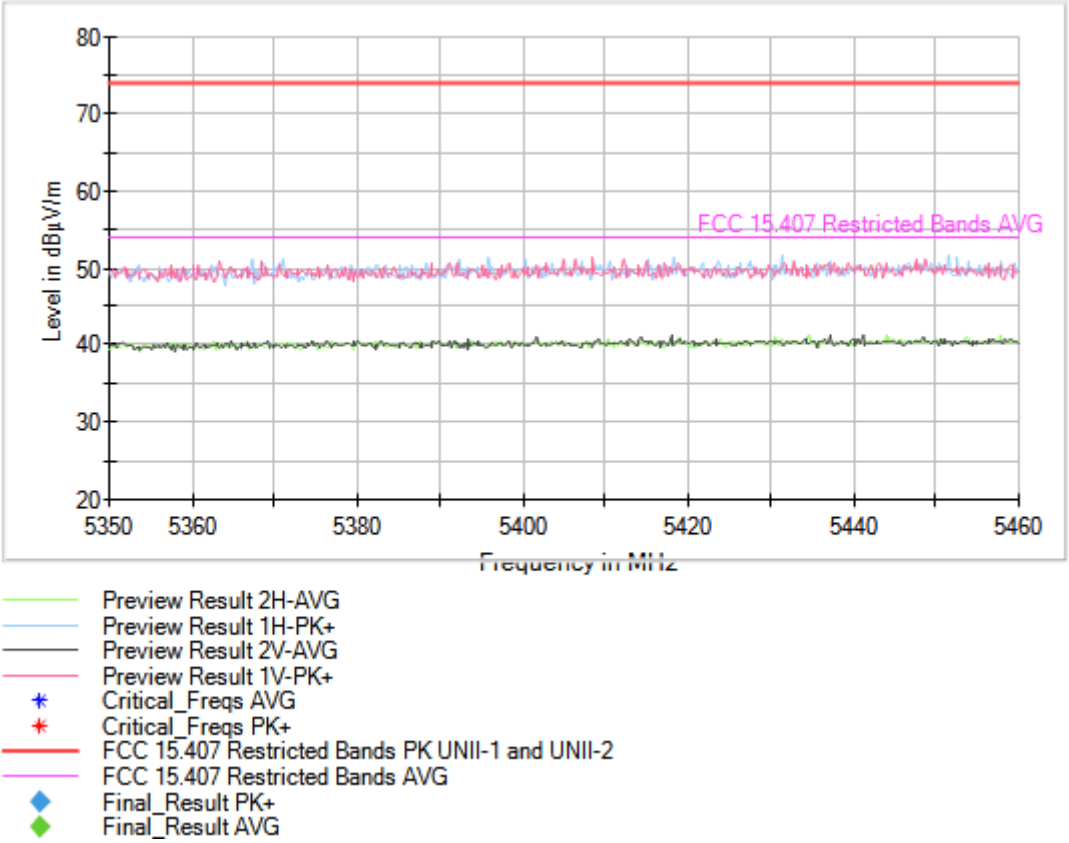




Operation Band MHz = [5150, 5250] Active Port = 1+2
Frequency Range GHz = [1, 7] Frequency MHz = 5240.00000
Modulation = 802.11ac VHT20 (OFDM MCS0) Resource Unit Tone/Index = -

Images:





Modulation: 802.11ac VHT40 (OFDM MCS0)

Results

Operation Band (MHz)	Port	Freq Rng (GHz)	Freq (MHz)	Unwanted Freq (MHz)	Unwanted Lvl (dBµV/m)	Pol	Detector
[5150, 5250]	2	[1, 7]	5190.00000	5136.600	58.02	H	PK
[5150, 5250]	2	[1, 7]	5190.00000	5136.600	46.18	H	AVG
[5150, 5250]	2	[1, 7]	5190.00000	5148.200	63.38	H	PK
[5150, 5250]	2	[1, 7]	5190.00000	5148.200	48.78	H	AVG
[5150, 5250]	2	[1, 7]	5190.00000	5149.600	62.21	H	PK
[5150, 5250]	2	[1, 7]	5190.00000	5149.600	49.29	H	AVG

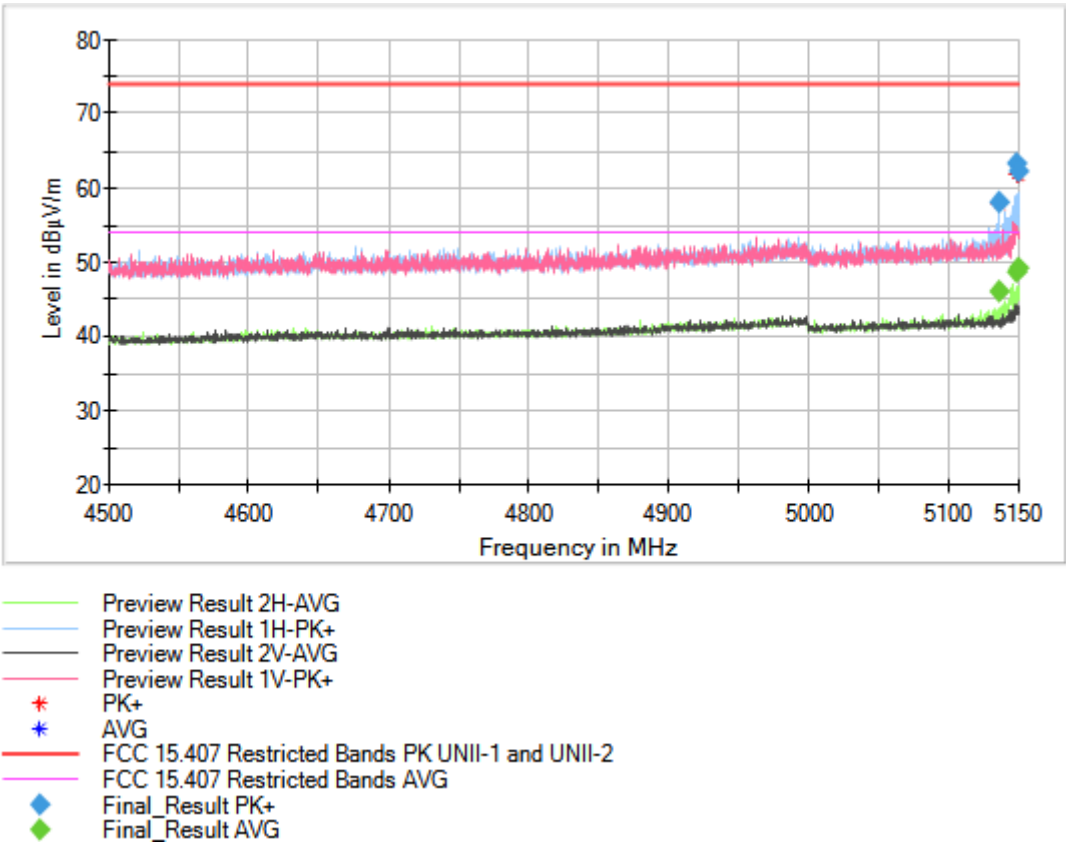
Verdict

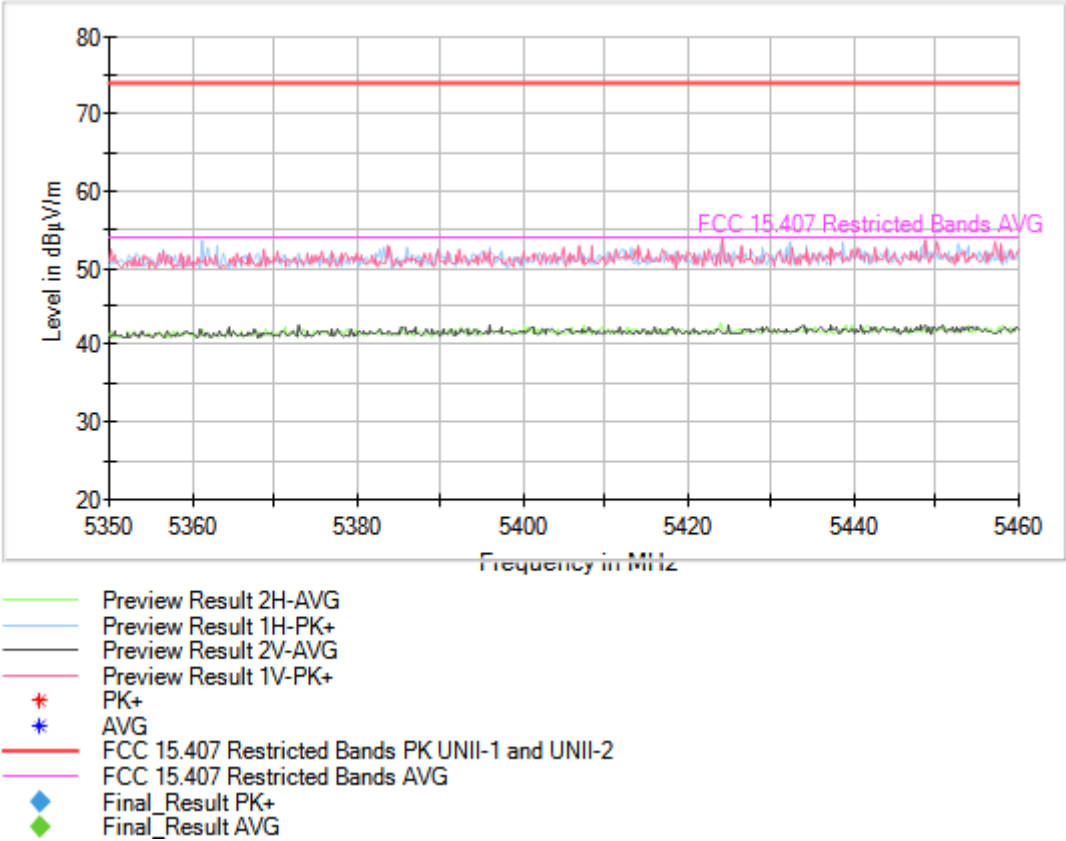
Pass

Attachments

Operation Band MHz = [5150, 5250] Active Port = 2
Frequency Range GHz = [1, 7] Frequency MHz = 5190.00000
Modulation = 802.11ac VHT40 (OFDM MCS0) Resource Unit Tone/Index = -

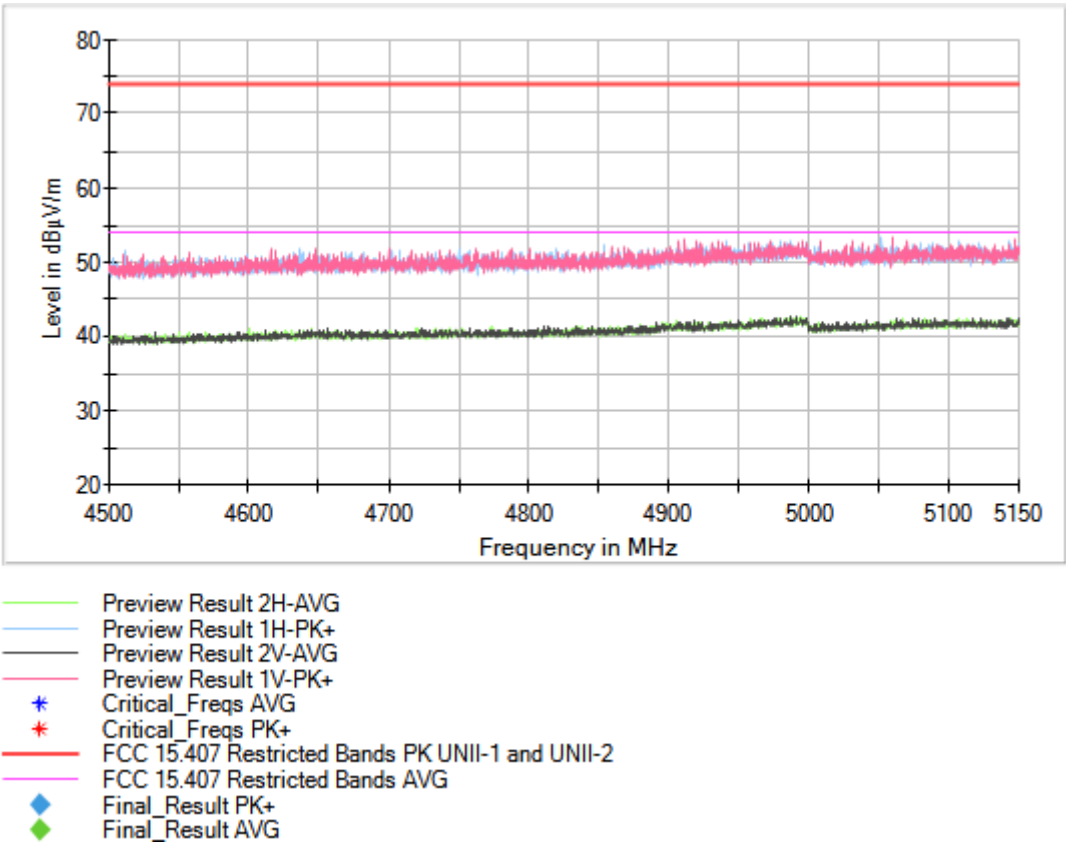
Images:

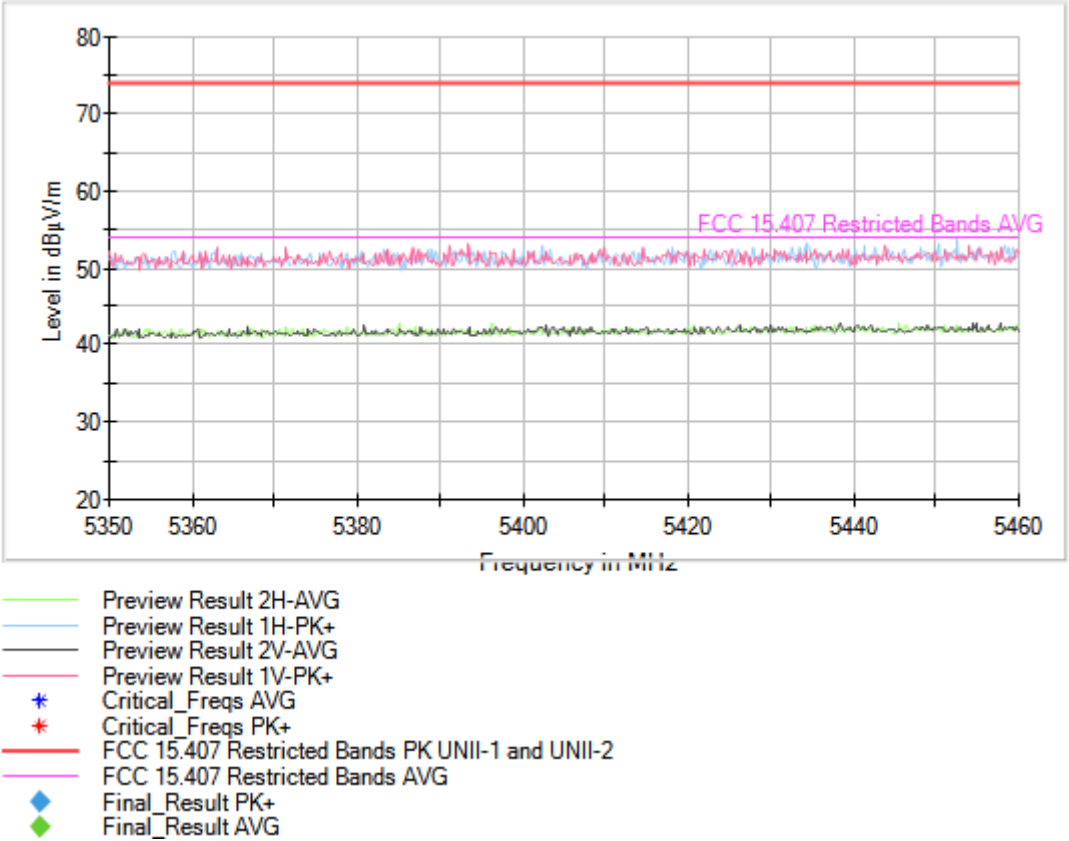




Operation Band MHz = [5150, 5250] Active Port = 2
Frequency Range GHz = [1, 7] Frequency MHz = 5230.00000
Modulation = 802.11ac VHT40 (OFDM MCS0) Resource Unit Tone/Index = -

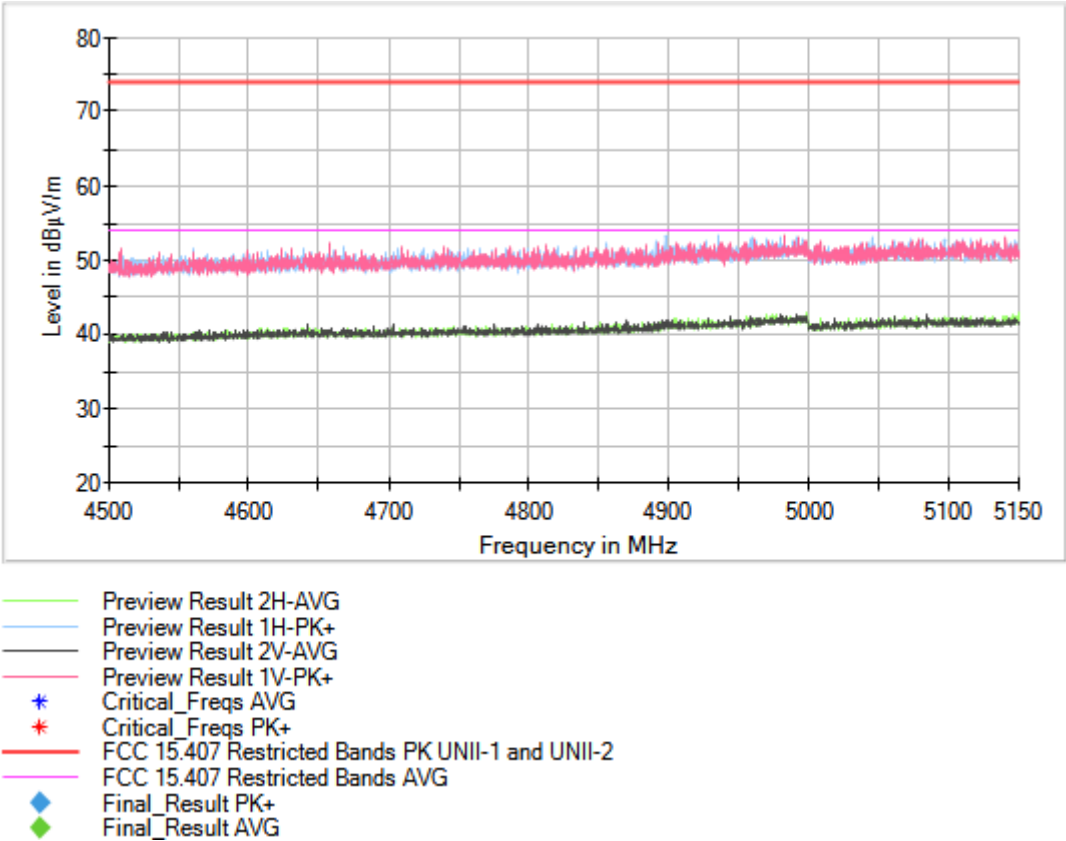
Images:

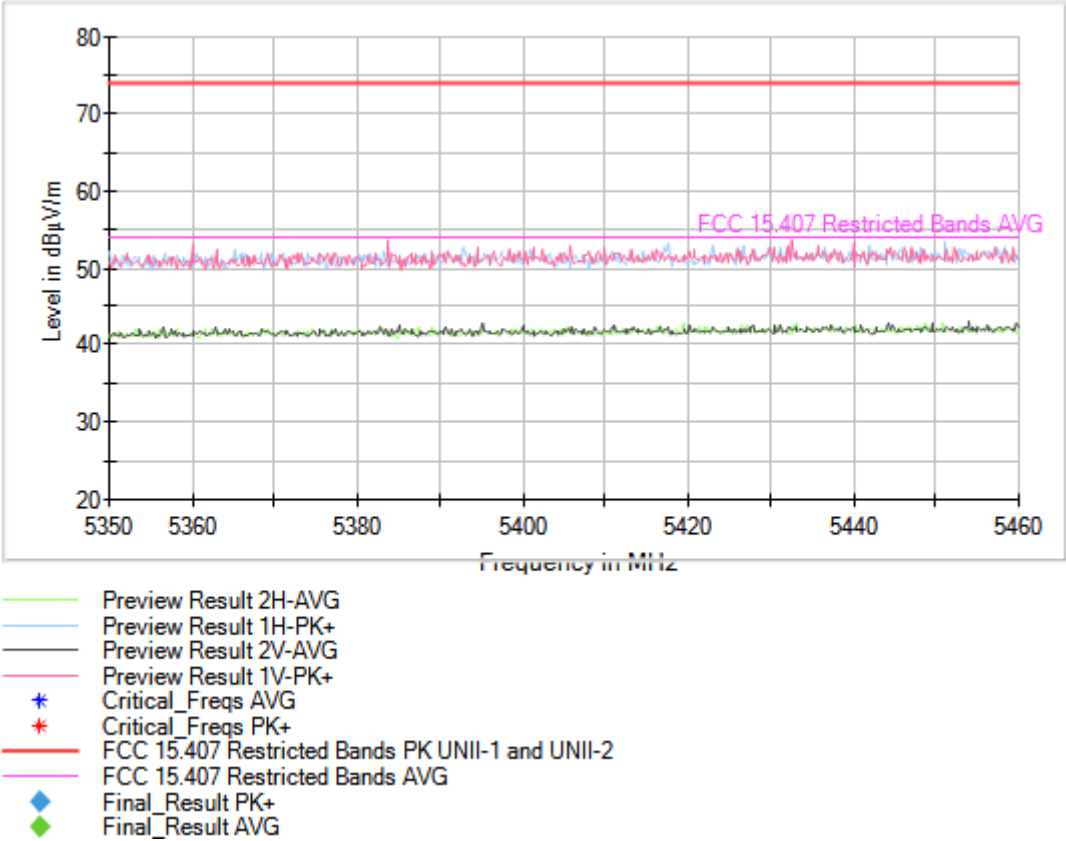




Operation Band MHz = [5150, 5250] Active Port = 1+2
Frequency Range GHz = [1, 7] Frequency MHz = 5190.00000
Modulation = 802.11ac VHT40 (OFDM MCS0) Resource Unit Tone/Index = -

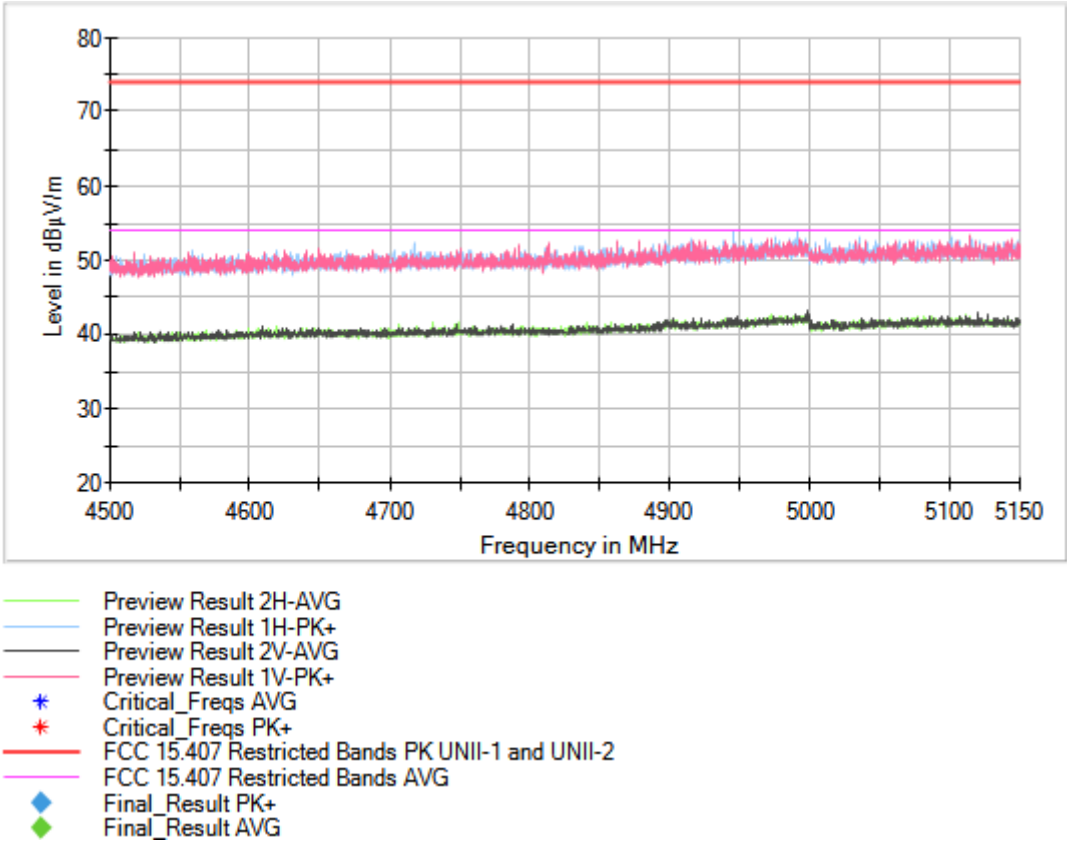
Images:

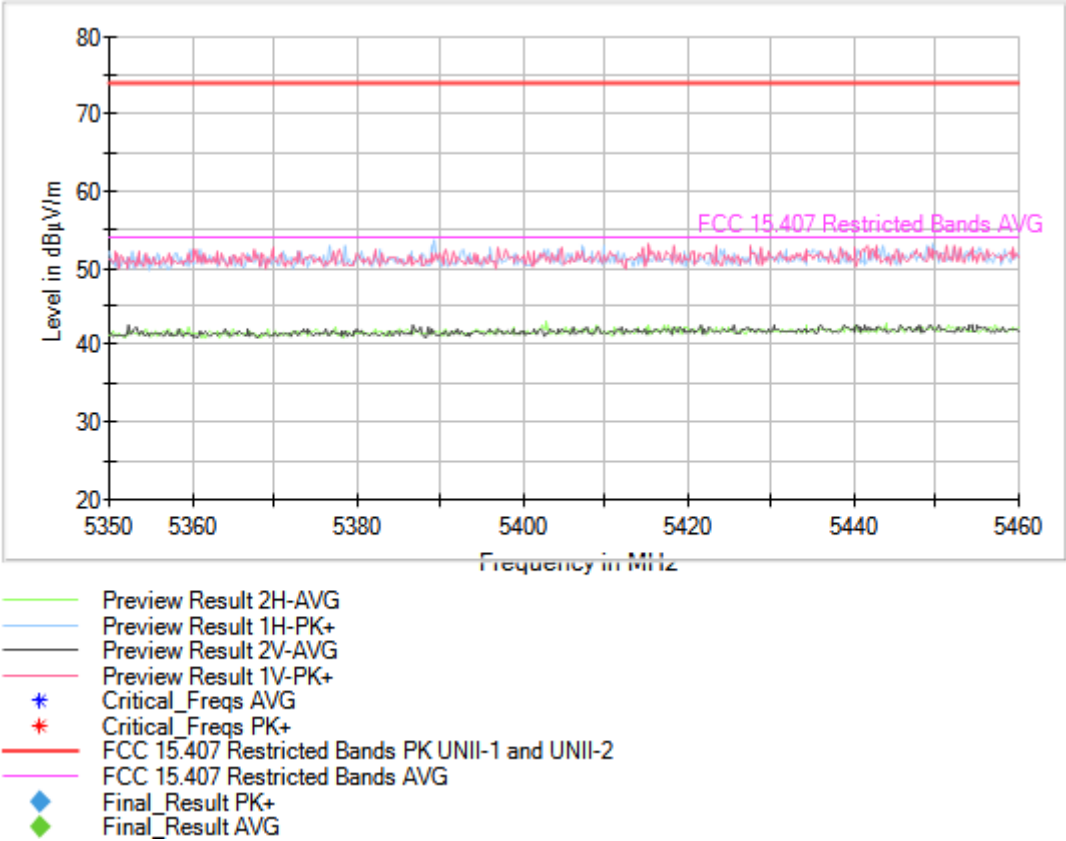




Operation Band MHz = [5150, 5250] Active Port = 1+2
Frequency Range GHz = [1, 7] Frequency MHz = 5230.00000
Modulation = 802.11ac VHT40 (OFDM MCS0) Resource Unit Tone/Index = -

Images:





Modulation: 802.11ac VHT80 (OFDM MCS0)

Results

No spurious emissions were detected.

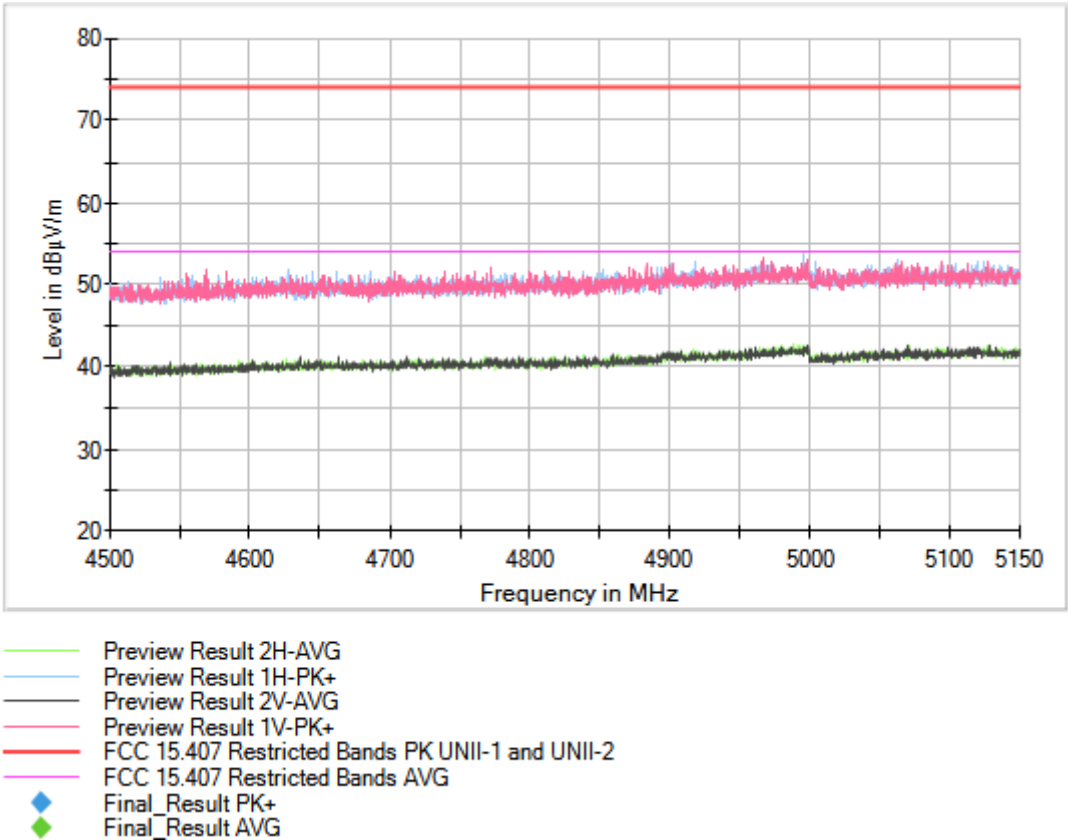
Verdict

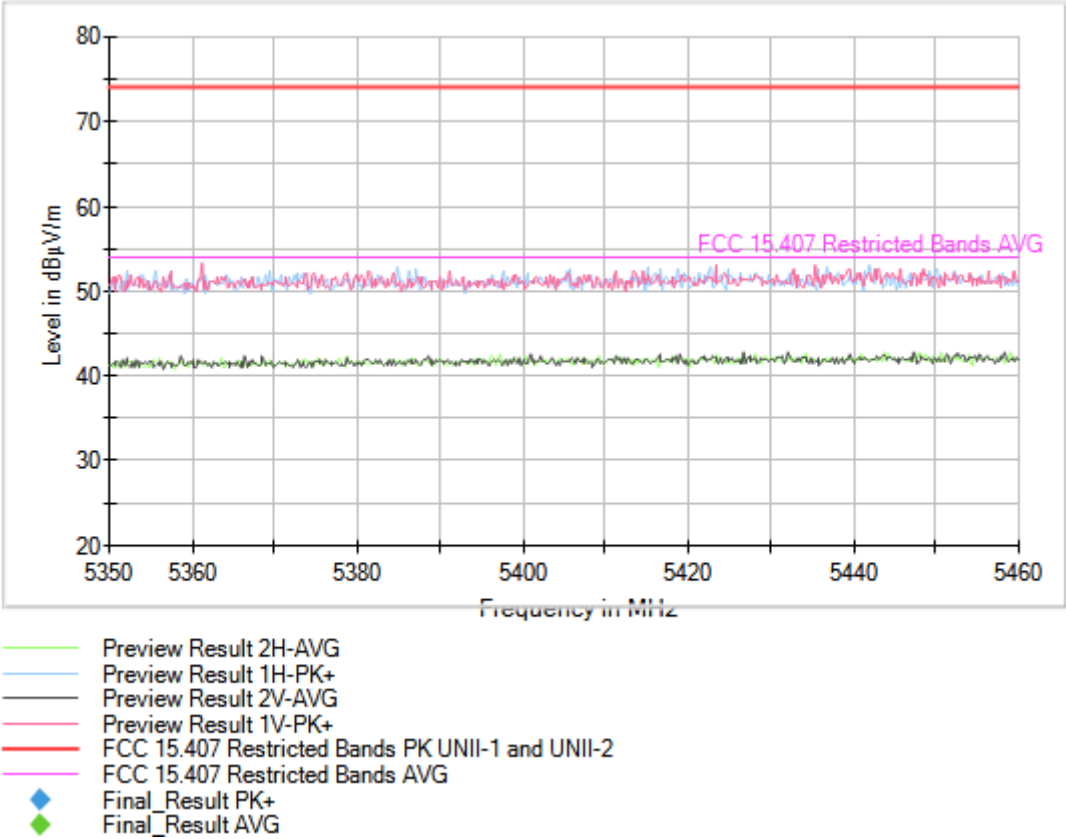
Pass

Attachments

Operation Band MHz = [5150, 5250] Active Port = 2
Frequency Range GHz = [1, 7] Frequency MHz = 5210.00000
Modulation = 802.11ac VHT80 (OFDM MCS0) Resource Unit Tone/Index = -

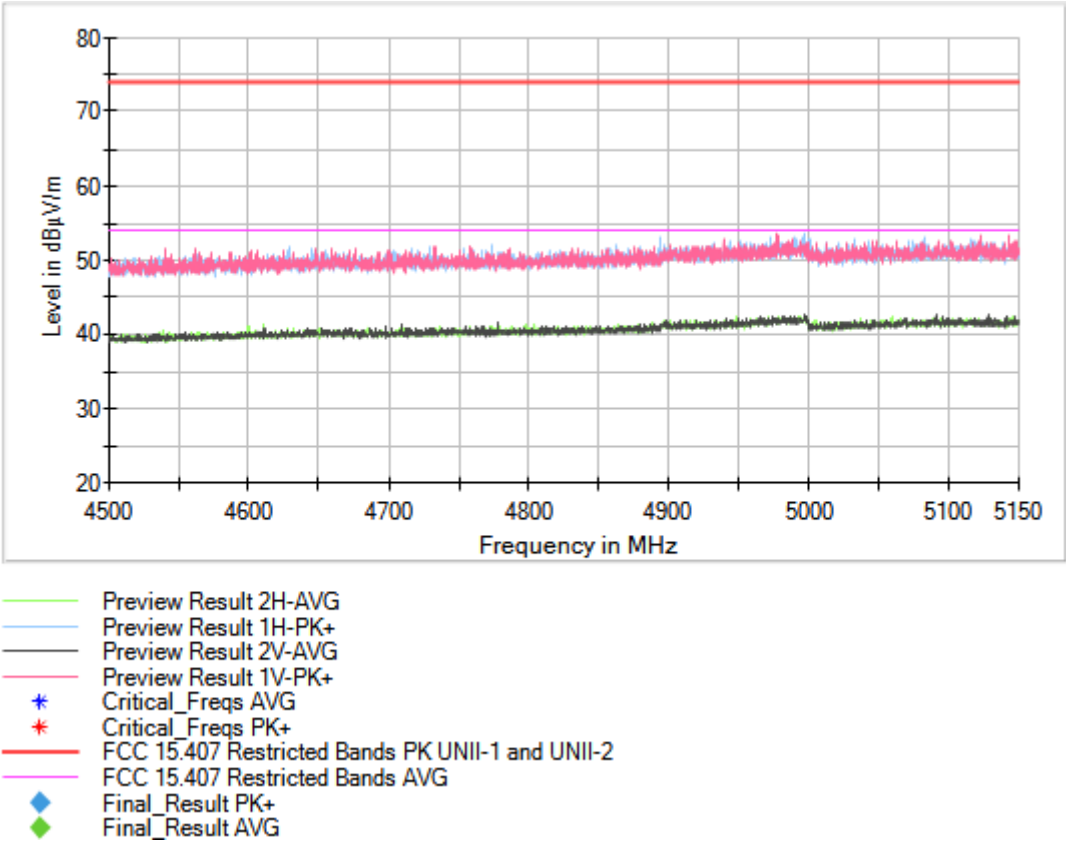
Images:

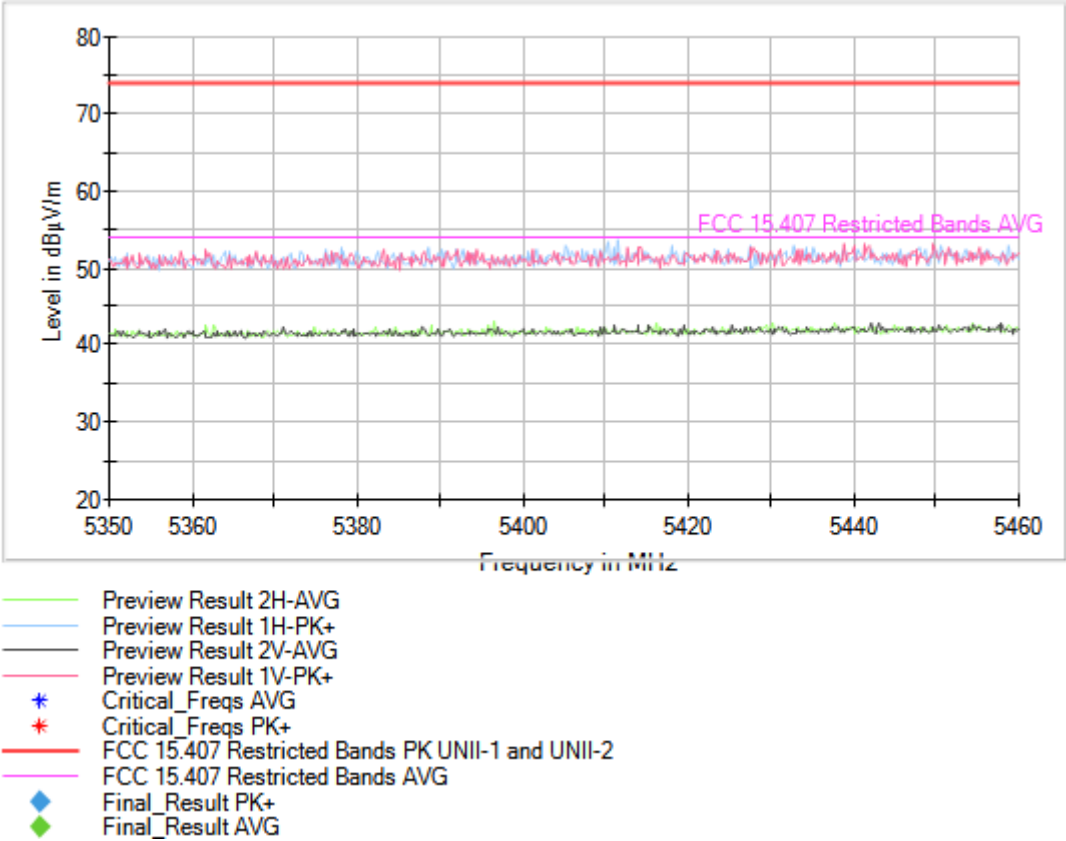




Operation Band MHz = [5150, 5250] Active Port = 1+2
Frequency Range GHz = [1, 7] Frequency MHz = 5210.00000
Modulation = 802.11ac VHT80 (OFDM MCS0) Resource Unit Tone/Index = -

Images:





Modulation: 802.11ax HE20 (OFDMA MCS0)

Results

Operation Band (MHz)	Port	Freq Rng (GHz)	Freq (MHz)	Subcarrier Mode	Unwanted Freq (MHz)	Unwanted Lvl (dBµV/m)	Pol	Detector
[5150, 5250]	2	[1, 7]	5180.00000	SU	5130.468	59.16	H	PK
[5150, 5250]	2	[1, 7]	5180.00000	SU	5130.468	42.23	H	AVG
[5150, 5250]	2	[1, 7]	5180.00000	SU	5144.171	61.62	H	PK
[5150, 5250]	2	[1, 7]	5180.00000	SU	5144.171	43.89	H	AVG
[5150, 5250]	2	[1, 7]	5180.00000	SU	5147.400	64.71	H	PK
[5150, 5250]	2	[1, 7]	5180.00000	SU	5147.400	45.70	H	AVG
[5150, 5250]	2	[1, 7]	5180.00000	RU	5120.800	54.23	H	PK
[5150, 5250]	2	[1, 7]	5180.00000	RU	5120.800	42.19	H	AVG
[5150, 5250]	2	[1, 7]	5180.00000	RU	5127.200	57.43	H	PK
[5150, 5250]	2	[1, 7]	5180.00000	RU	5127.200	43.29	H	AVG
[5150, 5250]	2	[1, 7]	5180.00000	RU	5132.200	59.60	H	PK
[5150, 5250]	2	[1, 7]	5180.00000	RU	5132.200	44.10	H	AVG
[5150, 5250]	2	[1, 7]	5180.00000	RU	5134.000	67.84	H	PK
[5150, 5250]	2	[1, 7]	5180.00000	RU	5134.000	44.74	H	AVG
[5150, 5250]	2	[1, 7]	5180.00000	RU	5135.600	69.40	H	PK
[5150, 5250]	2	[1, 7]	5180.00000	RU	5135.600	46.24	H	AVG
[5150, 5250]	2	[1, 7]	5180.00000	RU	5138.800	62.71	H	PK
[5150, 5250]	2	[1, 7]	5180.00000	RU	5138.800	42.74	H	AVG
[5150, 5250]	2	[1, 7]	5180.00000	RU	5142.400	63.55	H	PK
[5150, 5250]	2	[1, 7]	5180.00000	RU	5142.400	44.75	H	AVG
[5150, 5250]	2	[1, 7]	5180.00000	RU	5144.800	62.21	H	PK
[5150, 5250]	2	[1, 7]	5180.00000	RU	5144.800	45.28	H	AVG
[5150, 5250]	2	[1, 7]	5180.00000	RU	5146.400	62.33	H	PK
[5150, 5250]	2	[1, 7]	5180.00000	RU	5146.400	44.94	H	AVG
[5150, 5250]	2	[1, 7]	5180.00000	RU	5148.000	62.63	H	PK
[5150, 5250]	2	[1, 7]	5180.00000	RU	5148.000	45.23	H	AVG
[5150, 5250]	1+2	[1, 7]	5180.00000	RU	5139.200	61.94	H	PK
[5150, 5250]	1+2	[1, 7]	5180.00000	RU	5139.200	39.92	H	AVG
[5150, 5250]	2	[7, 17]	5180.00000	RU	15513.490	59.58	H	PK
[5150, 5250]	2	[7, 17]	5180.00000	RU	15513.490	45.22	H	AVG
[5150, 5250]	2	[7, 17]	5200.00000	RU	15594.859	64.87	H	PK
[5150, 5250]	2	[7, 17]	5200.00000	RU	15594.859	51.71	H	AVG
[5150, 5250]	2	[7, 17]	5240.00000	RU	15744.145	62.51	H	PK
[5150, 5250]	2	[7, 17]	5240.00000	RU	15744.145	46.25	H	AVG
[5150, 5250]	2	[17, 40]	5180.00000	RU	20719.867	41.29	H	PK
[5150, 5250]	2	[17, 40]	5180.00000	RU	23347.233	41.49	H	PK

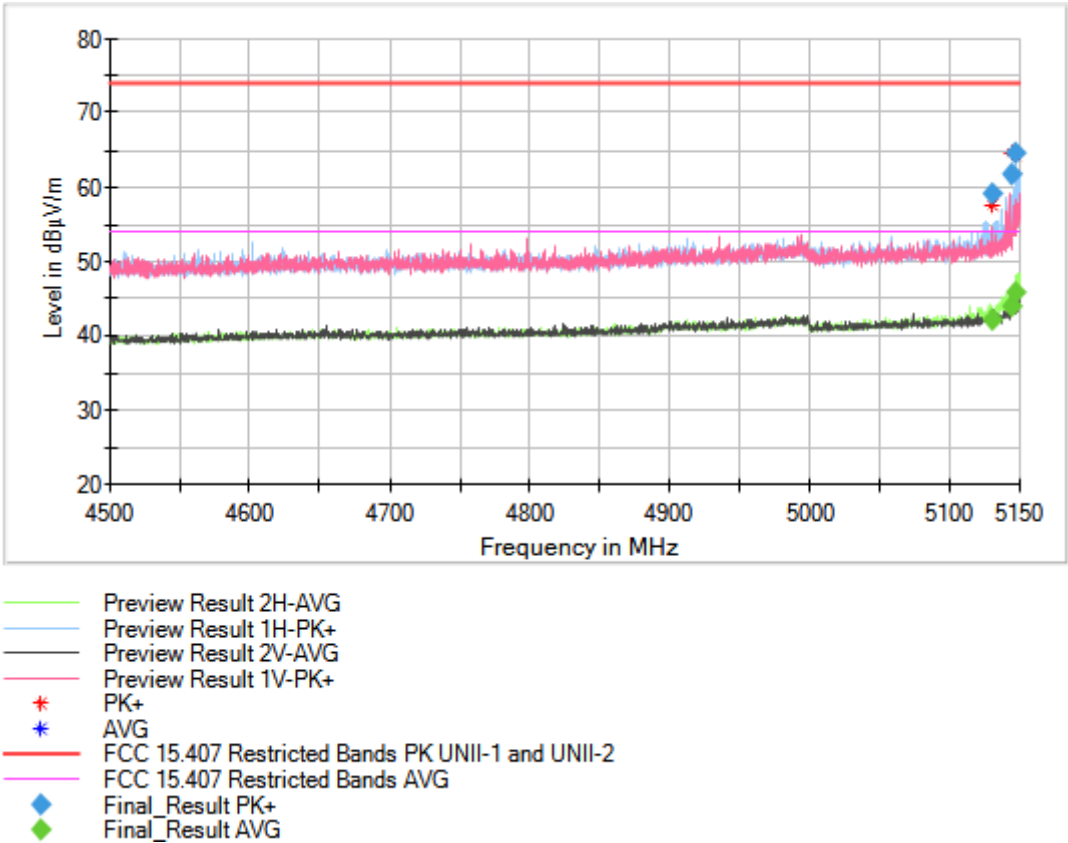
Operation Band (MHz)	Port	Freq Rng (GHz)	Freq (MHz)	Subcarrier Mode	Unwanted Freq (MHz)	Unwanted Lvl (dBµV/m)	Pol	Detector
[5150, 5250]	2	[17, 40]	5180.00000	RU	25899.467	42.42	H	PK
[5150, 5250]	2	[17, 40]	5200.00000	RU	19999.967	43.08	H	PK
[5150, 5250]	2	[17, 40]	5200.00000	RU	20799.600	46.20	H	PK
[5150, 5250]	2	[17, 40]	5200.00000	RU	23347.233	45.09	V	PK
[5150, 5250]	2	[17, 40]	5200.00000	RU	25999.900	47.17	H	PK
[5150, 5250]	2	[17, 40]	5240.00000	RU	20959.833	44.61	V	PK
[5150, 5250]	2	[17, 40]	5240.00000	RU	23347.233	42.53	H	PK
[5150, 5250]	2	[17, 40]	5240.00000	RU	26200.000	45.35	V	PK
[5150, 5250]	1+2	[17, 40]	5180.00000	RU	20719.867	44.08	H	PK
[5150, 5250]	1+2	[17, 40]	5180.00000	RU	23347.233	40.51	H	PK
[5150, 5250]	1+2	[17, 40]	5180.00000	RU	25900.233	43.19	H	PK
[5150, 5250]	1+2	[17, 40]	5200.00000	RU	19999.200	41.21	V	PK
[5150, 5250]	1+2	[17, 40]	5200.00000	RU	20790.400	42.92	H	PK
[5150, 5250]	1+2	[17, 40]	5200.00000	RU	23347.233	42.05	H	PK
[5150, 5250]	1+2	[17, 40]	5200.00000	RU	25999.900	42.44	H	PK
[5150, 5250]	1+2	[17, 40]	5240.00000	RU	19999.200	40.24	V	PK
[5150, 5250]	1+2	[17, 40]	5240.00000	RU	23347.233	40.68	V	PK
[5150, 5250]	1+2	[17, 40]	5240.00000	RU	26200.000	40.87	H	PK

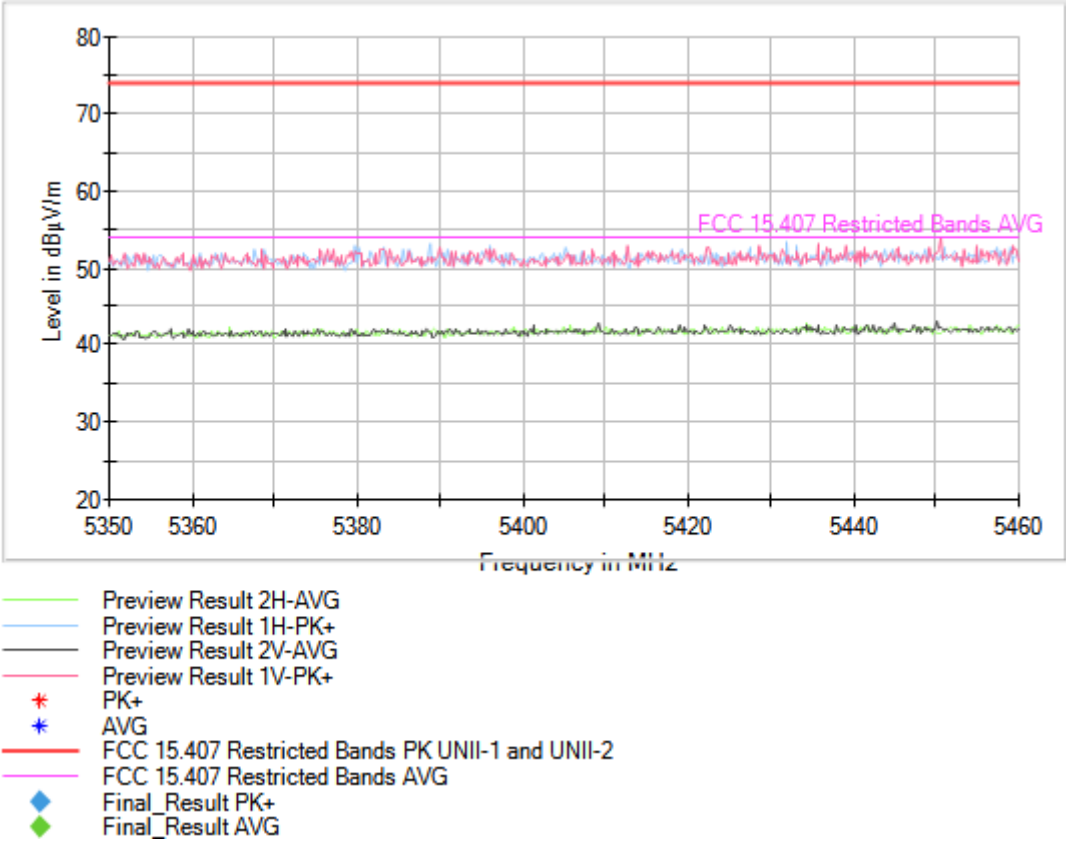
Verdict

Pass

Operation Band MHz = [5150, 5250] Active Port = 2
Frequency Range GHz = [1, 7] Frequency MHz = 5180.00000
Modulation = 802.11ax HE20 (OFDMA MCS0) Resource Unit Tone/Index = 242/61
Subcarrier Mode = SU

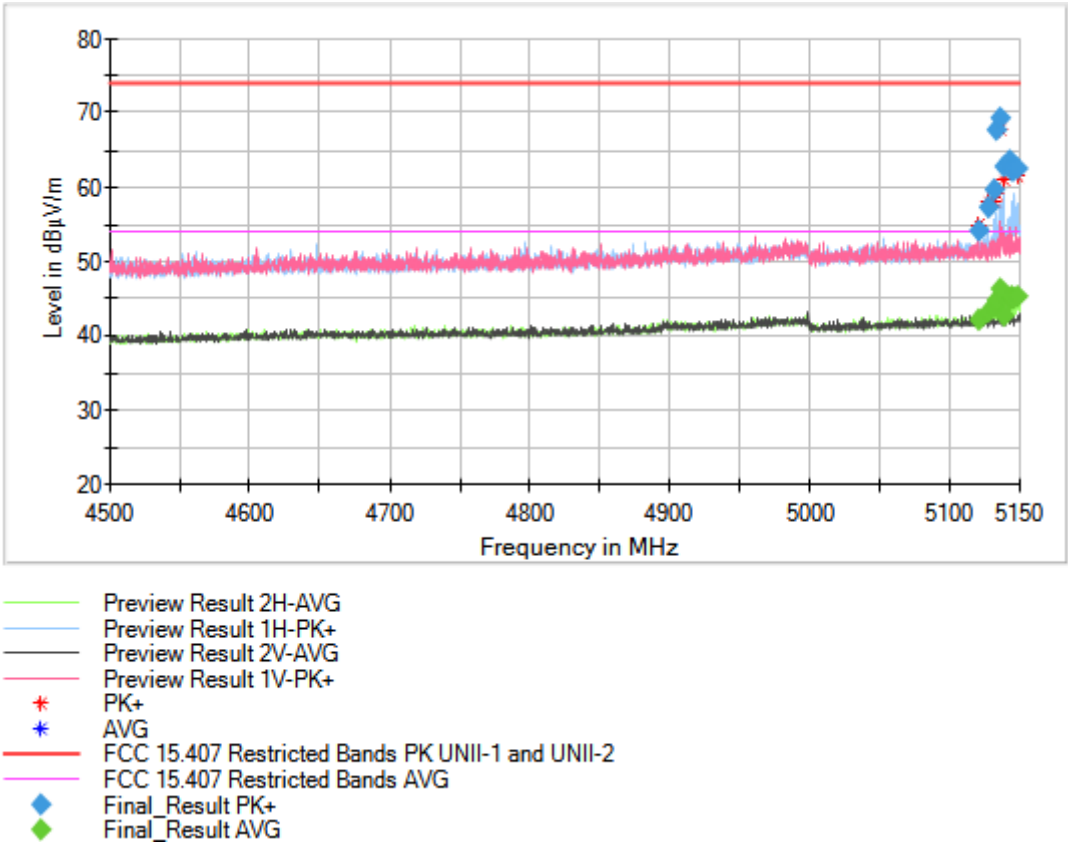
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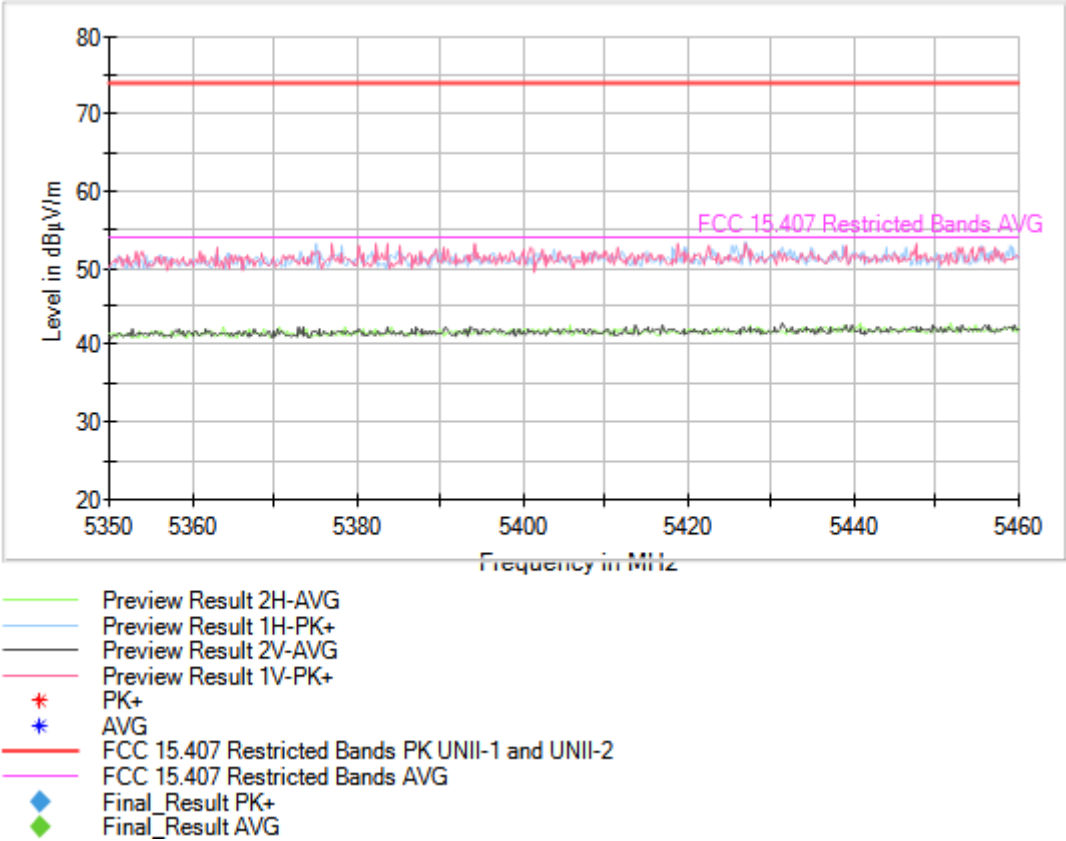




Operation Band MHz = [5150, 5250] Active Port = 2
Frequency Range GHz = [1, 7] Frequency MHz = 5180.00000
Modulation = 802.11ax HE20 (OFDMA MCS0) Resource Unit Tone/Index = 26/0
Subcarrier Mode = RU

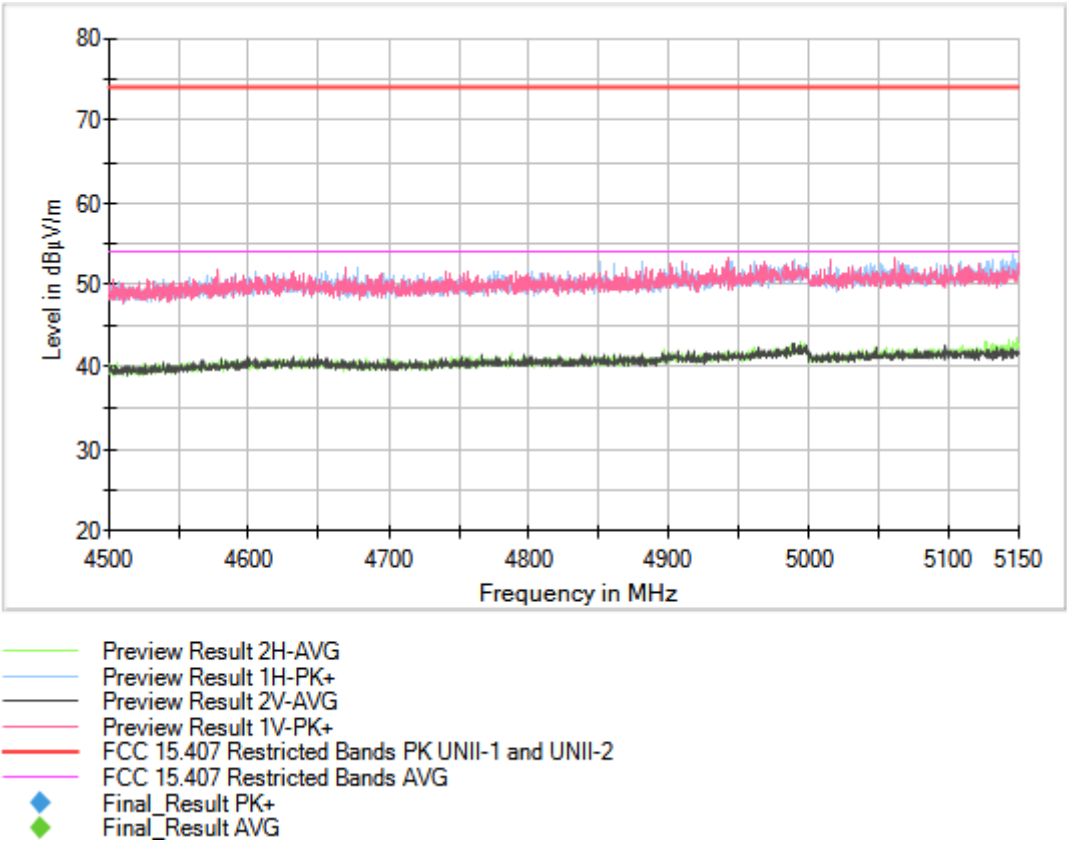
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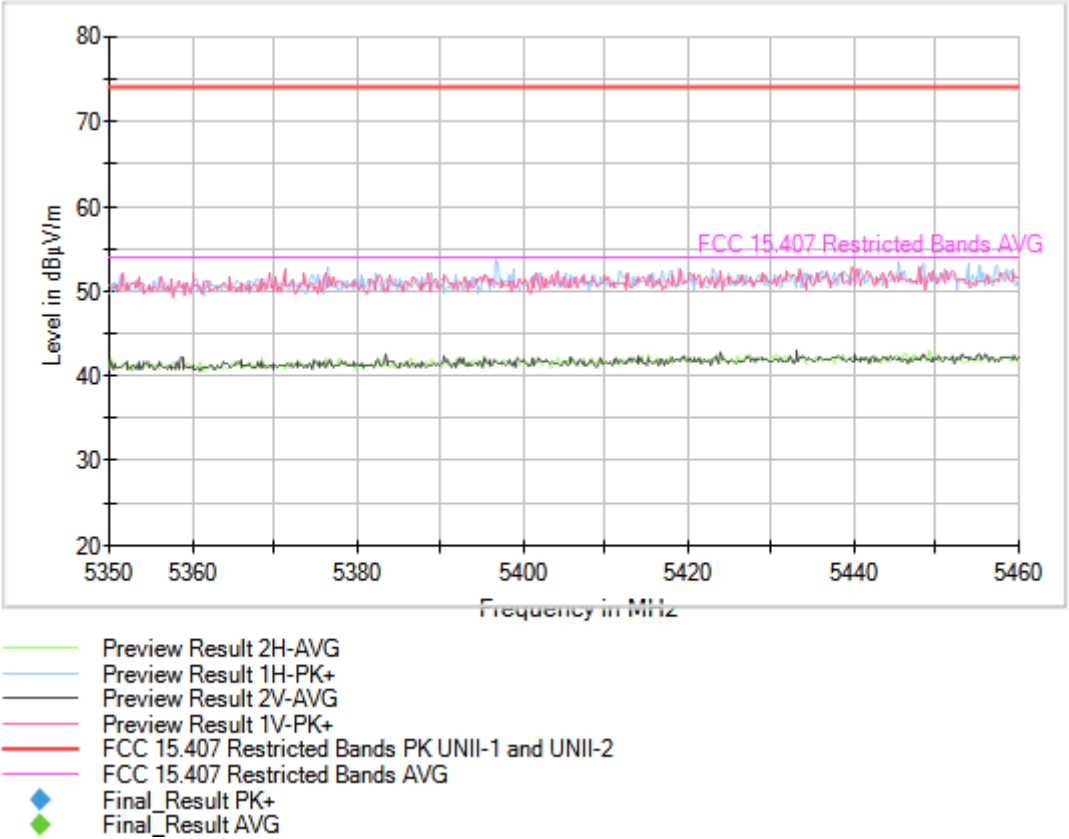




Operation Band MHz = [5150, 5250] Active Port = 2
Frequency Range GHz = [1, 7] Frequency MHz = 5200.00000
Modulation = 802.11ax HE20 (OFDMA MCS0) Resource Unit Tone/Index = 242/61
Subcarrier Mode = SU

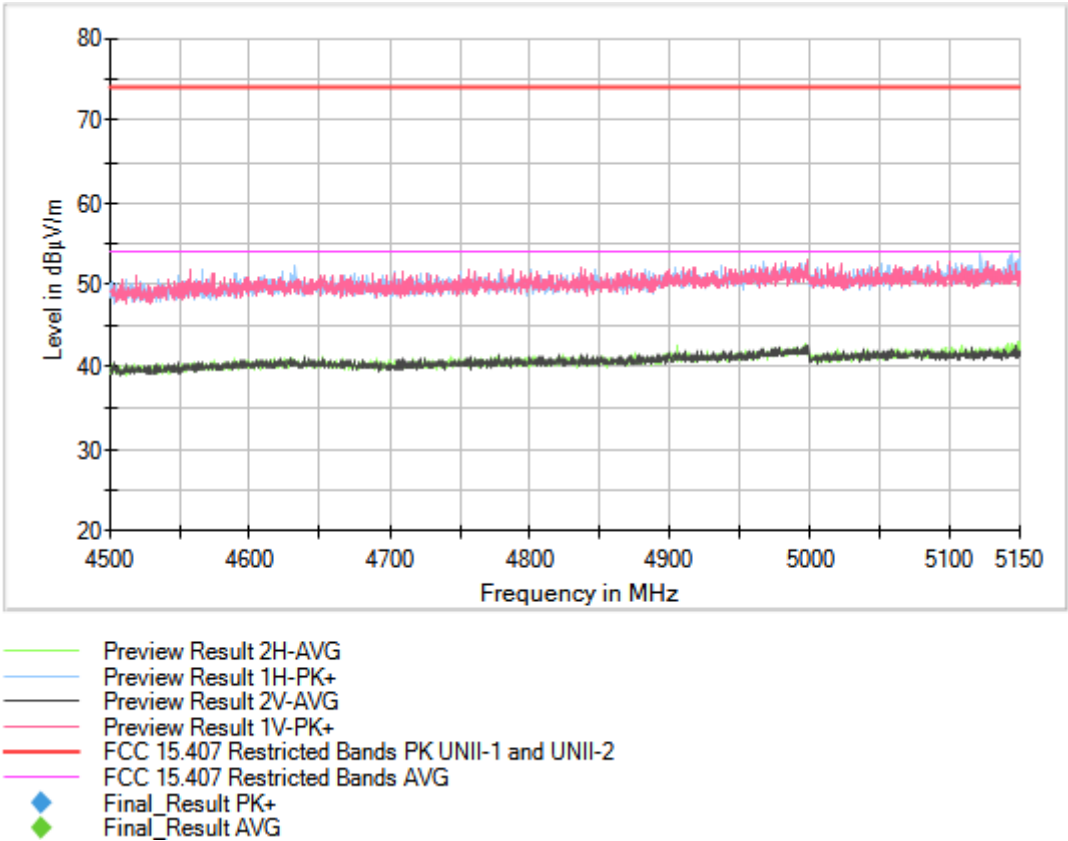
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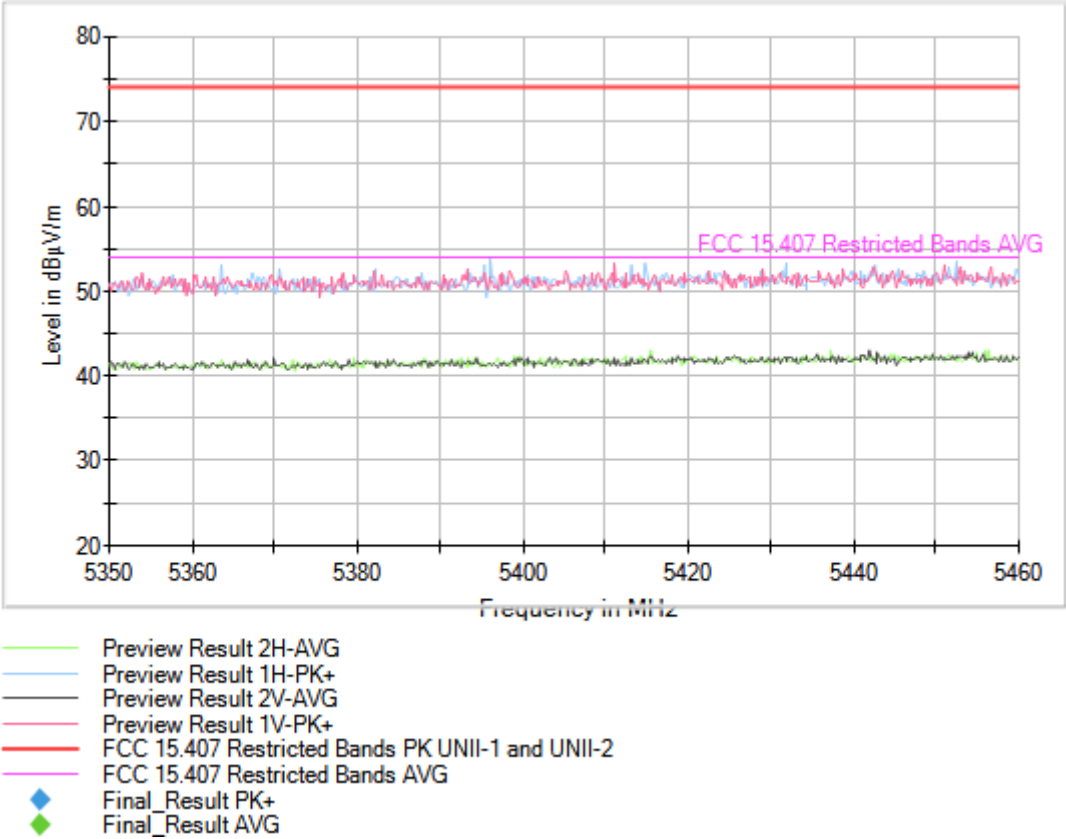




Operation Band MHz = [5150, 5250] Active Port = 2
Frequency Range GHz = [1, 7] Frequency MHz = 5200.00000
Modulation = 802.11ax HE20 (OFDMA MCS0) Resource Unit Tone/Index = 26/3
Subcarrier Mode = RU

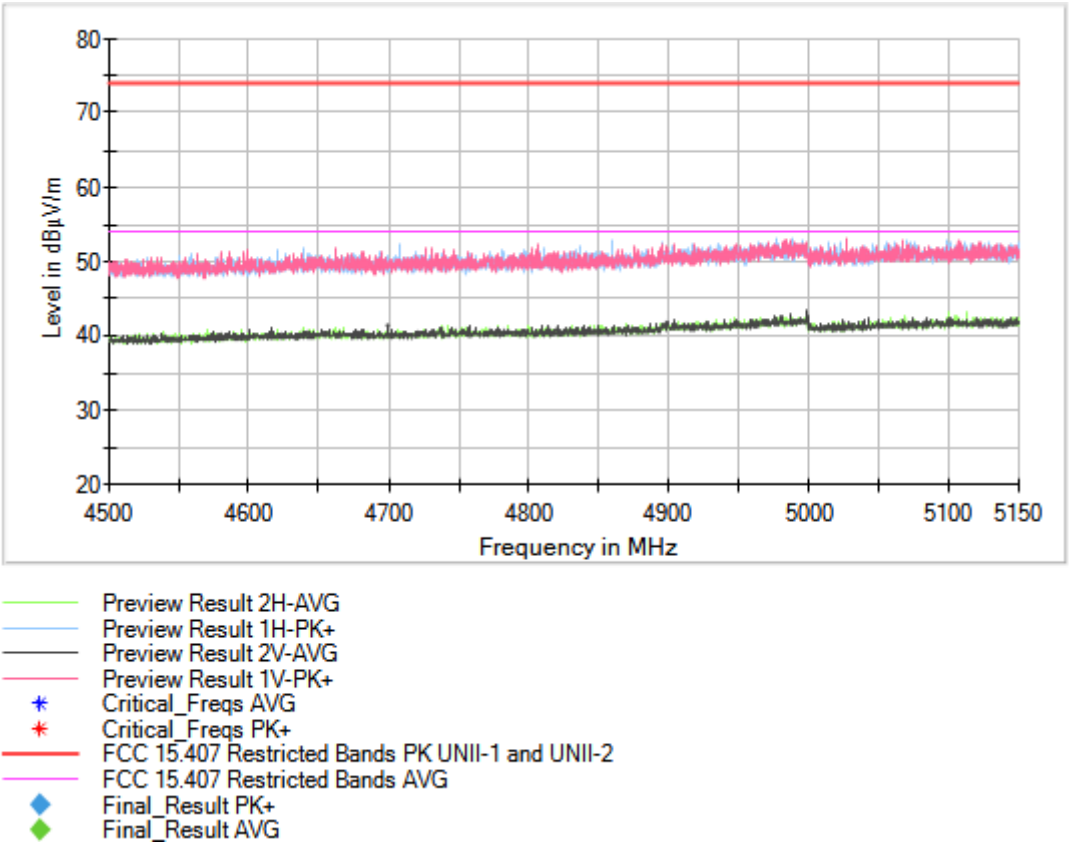
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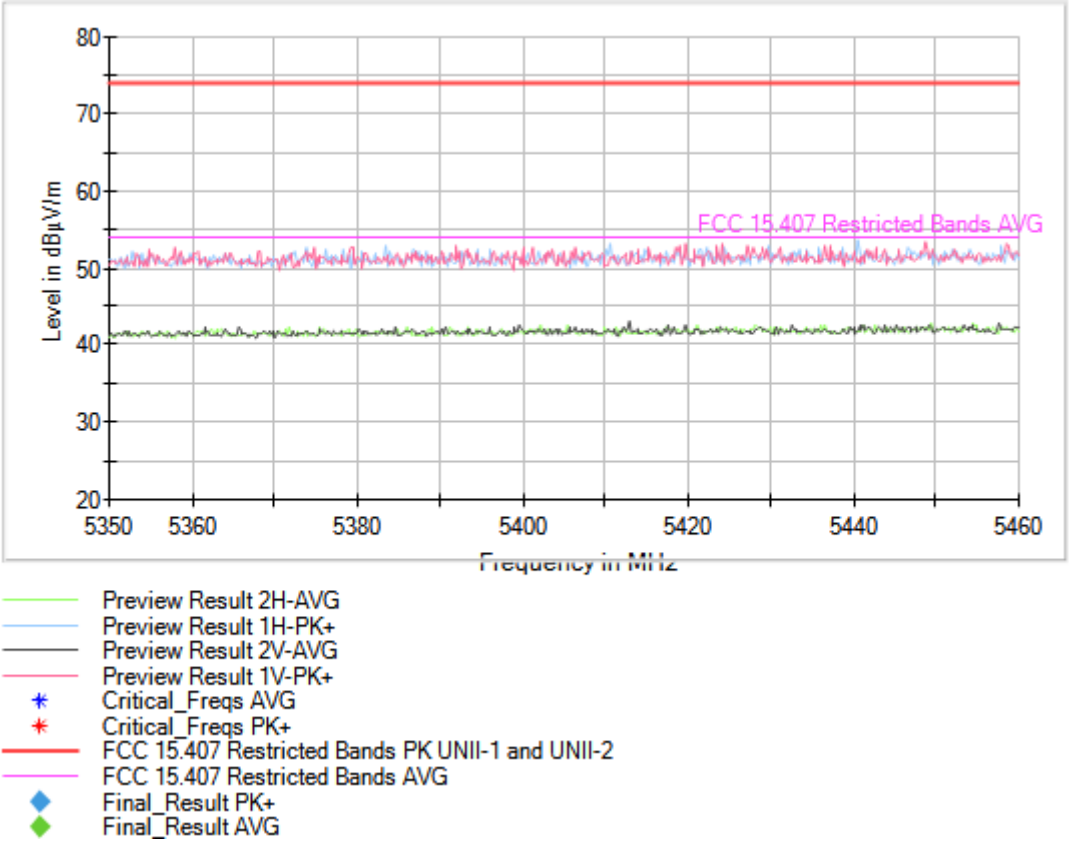




Operation Band MHz = [5150, 5250] Active Port = 2
Frequency Range GHz = [1, 7] Frequency MHz = 5240.00000
Modulation = 802.11ax HE20 (OFDMA MCS0) Resource Unit Tone/Index = 242/61
Subcarrier Mode = SU

Images:





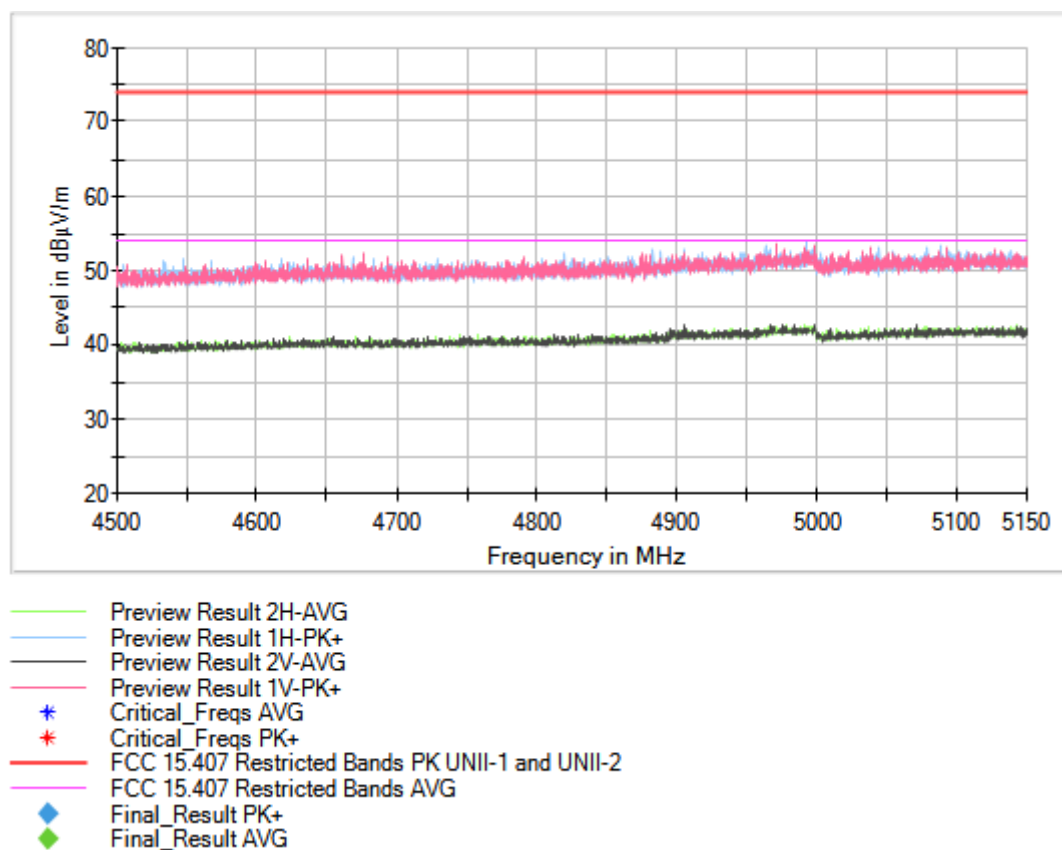
Active Port = 2

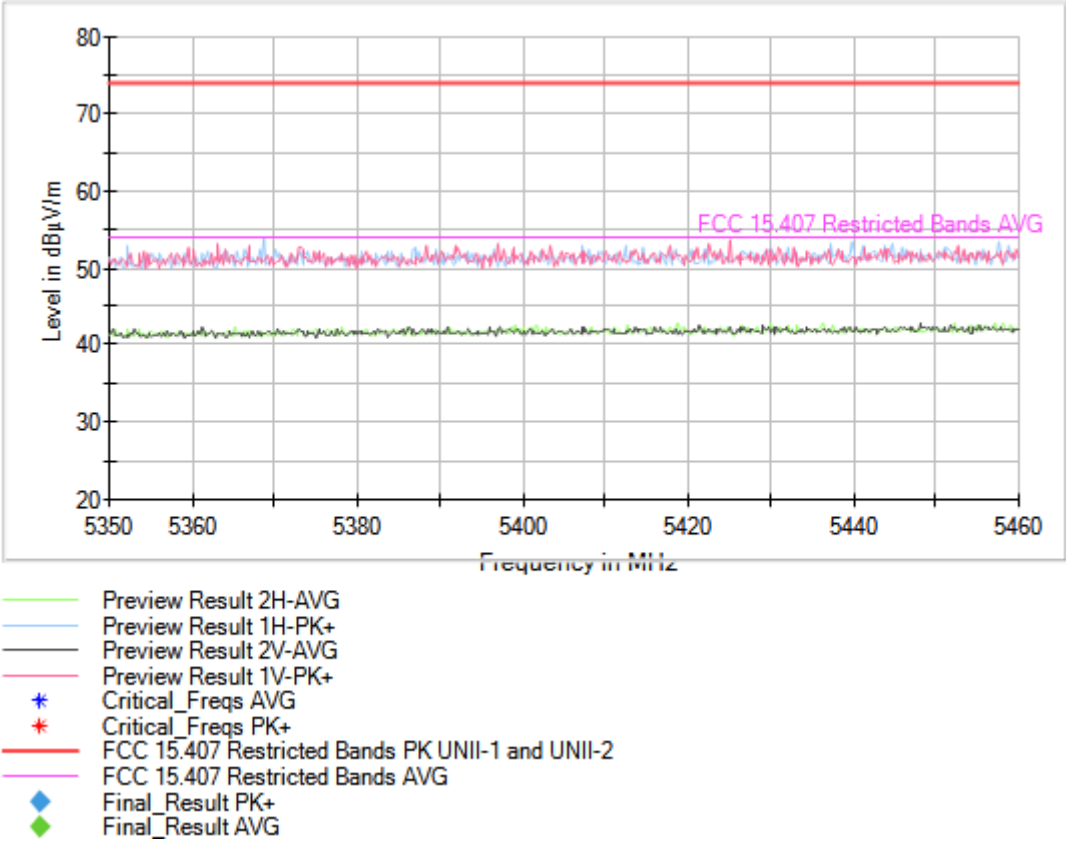
Frequency MHz = 5240.00000

Resource Unit Tone/Index = 26/8

Subcarrier Mode = RU

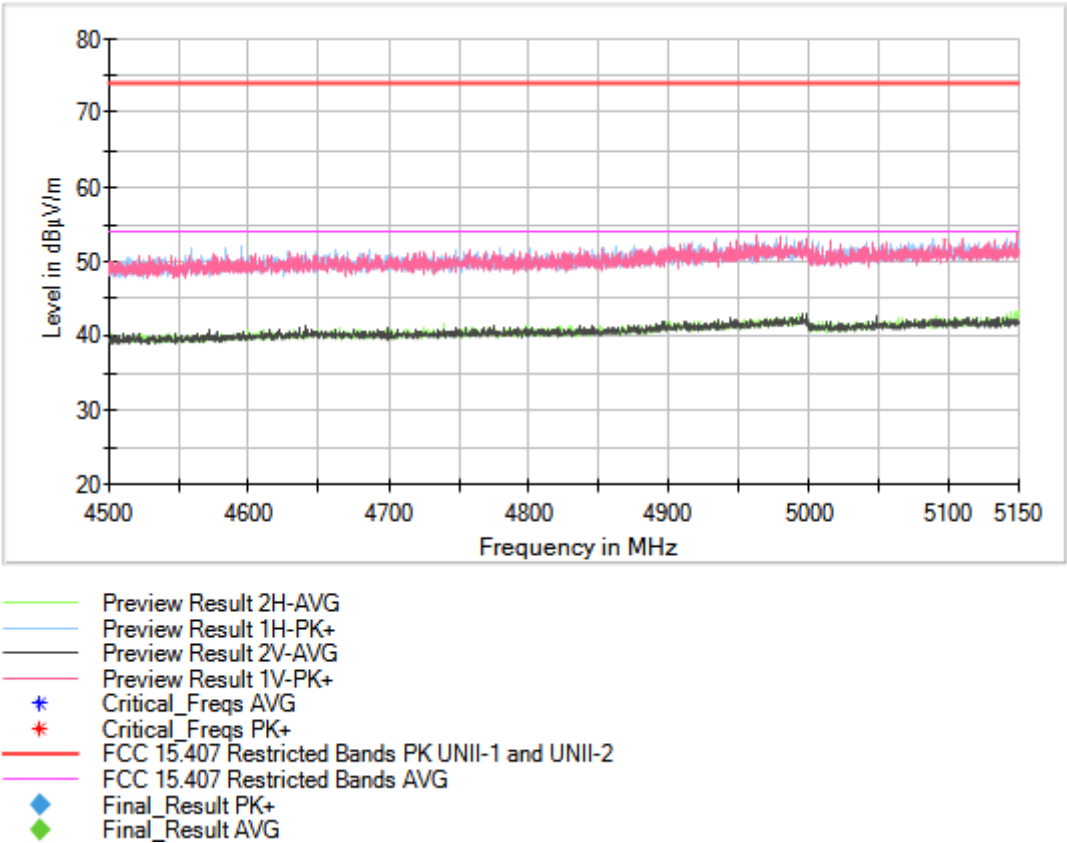
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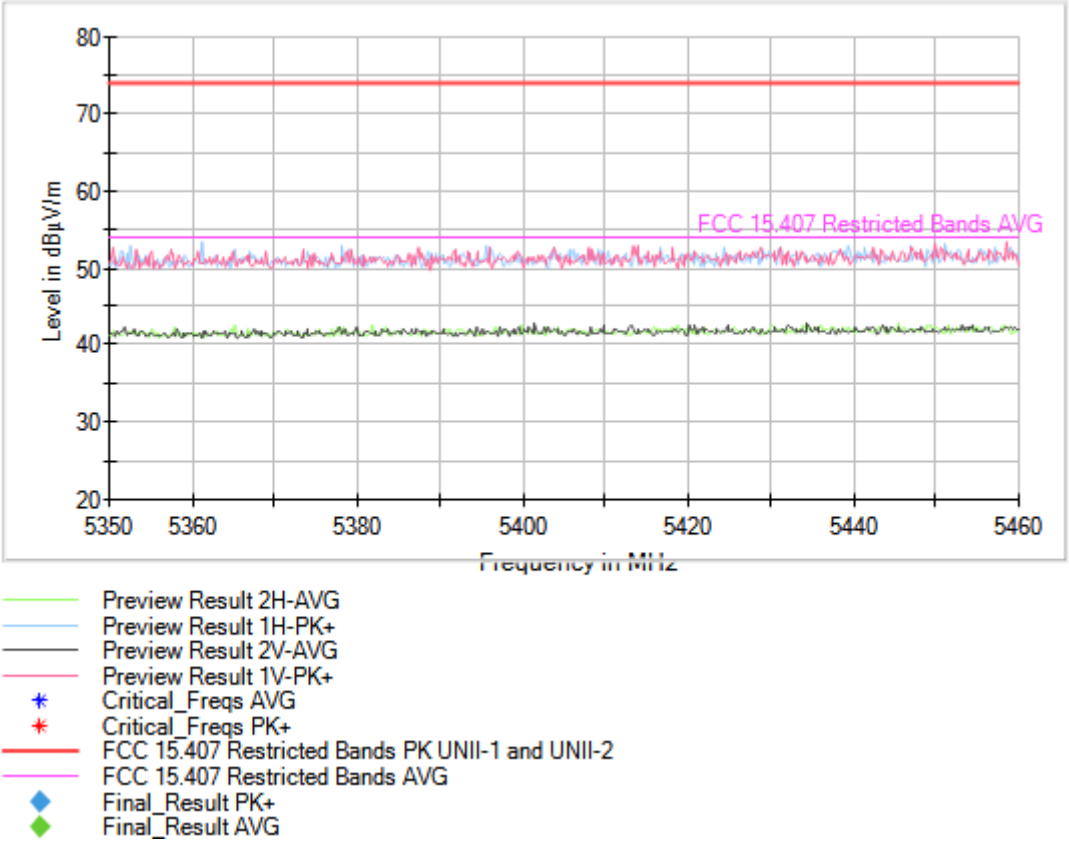




Operation Band MHz = [5150, 5250] Active Port = 1+2
Frequency Range GHz = [1, 7] Frequency MHz = 5180.00000
Modulation = 802.11ax HE20 (OFDMA MCS0) Resource Unit Tone/Index = 242/61
Subcarrier Mode = SU

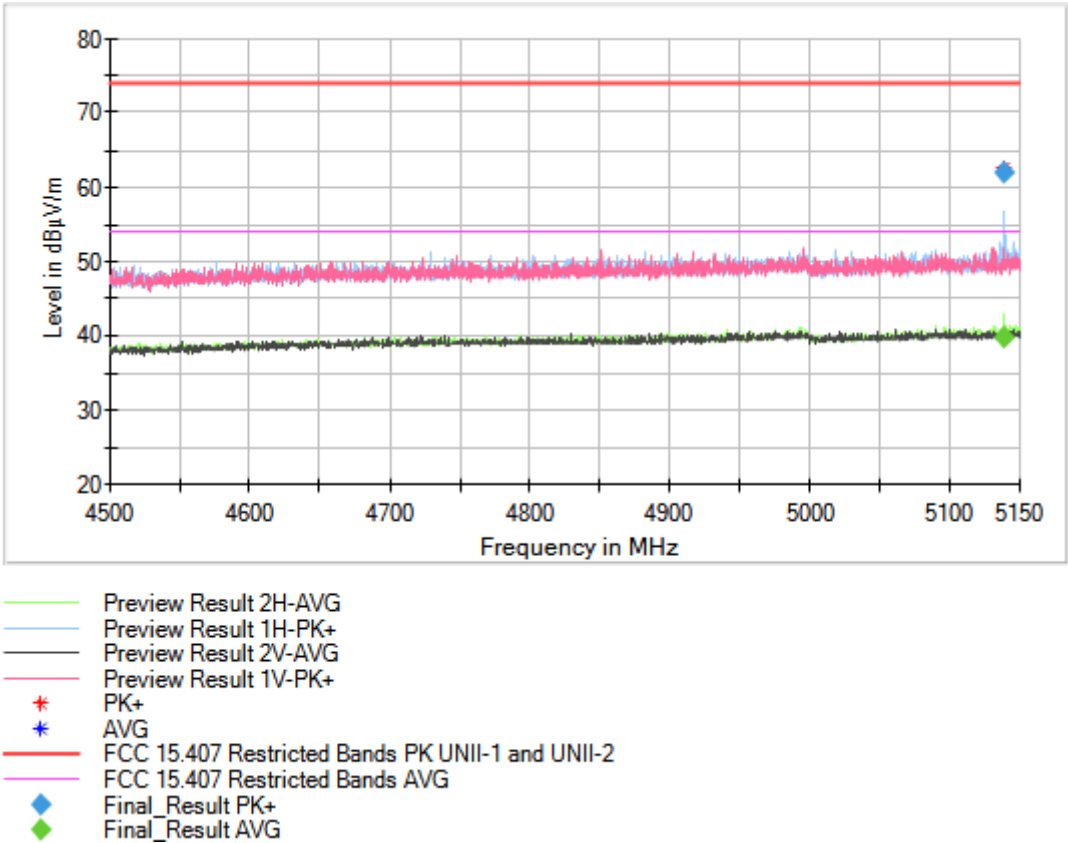
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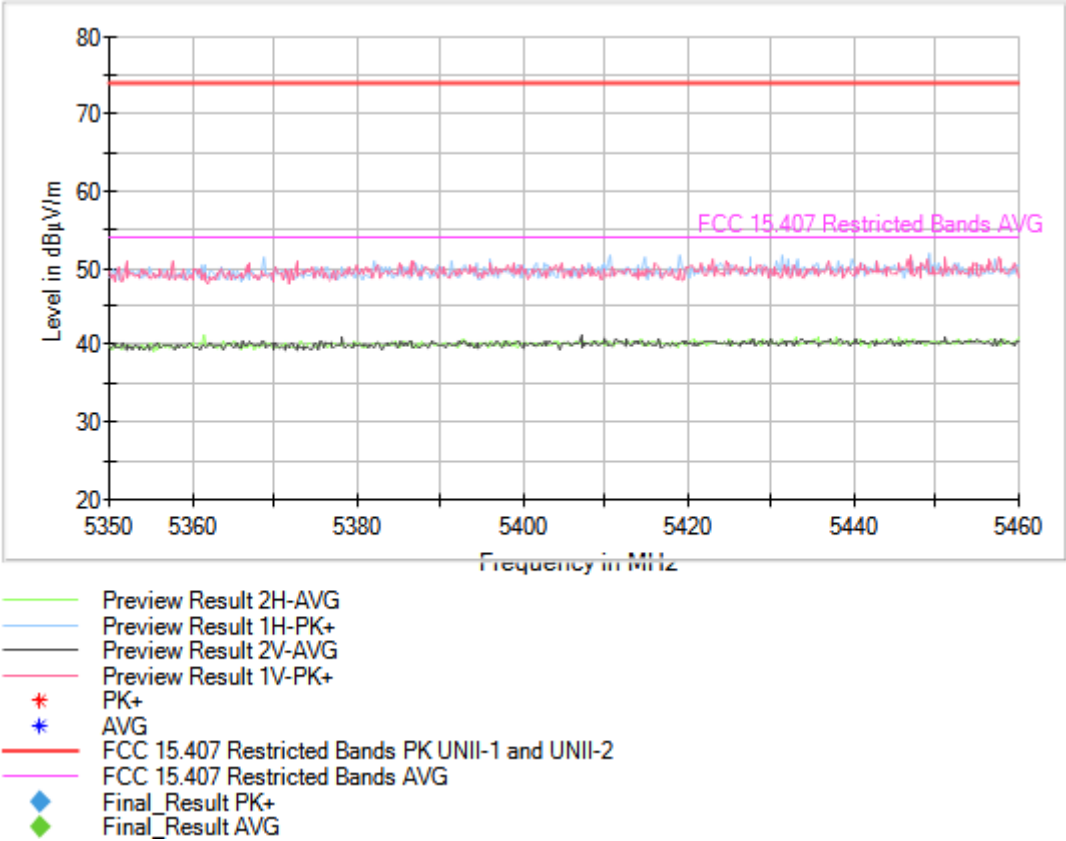




Operation Band MHz = [5150, 5250] Active Port = 1+2
Frequency Range GHz = [1, 7] Frequency MHz = 5180.00000
Modulation = 802.11ax HE20 (OFDMA MCS0) Resource Unit Tone/Index = 26/0
Subcarrier Mode = RU

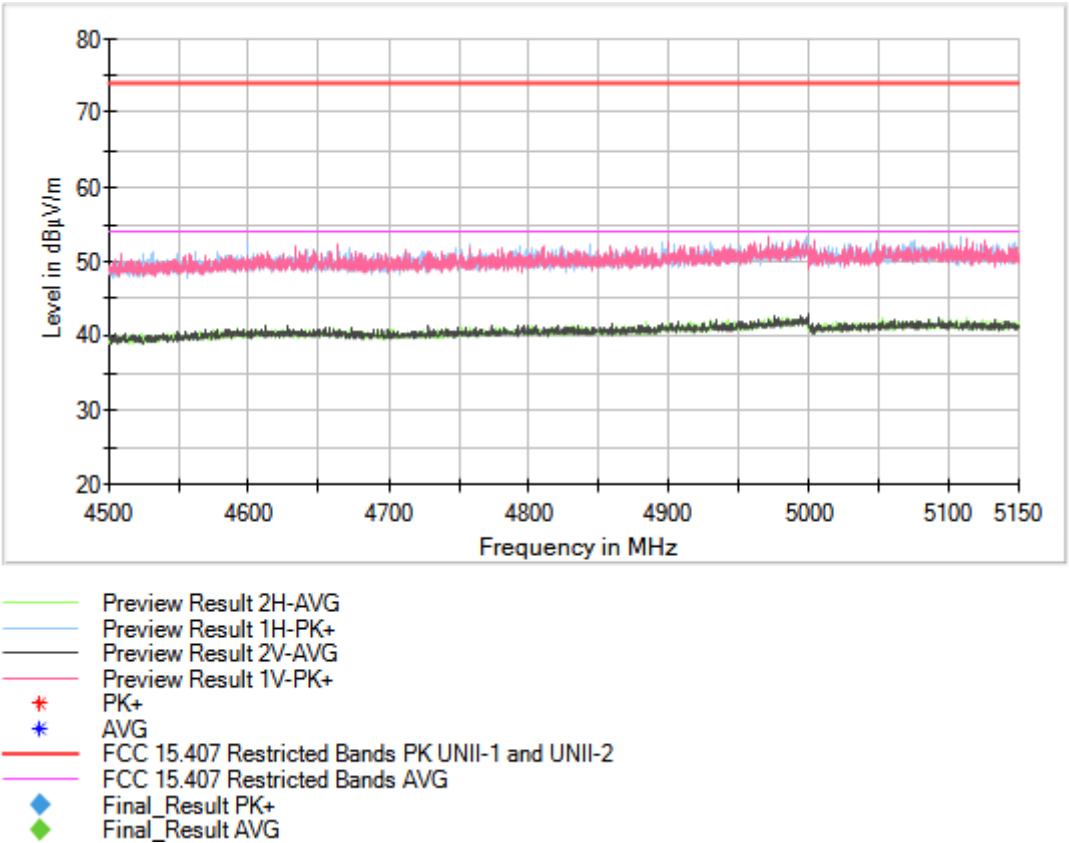
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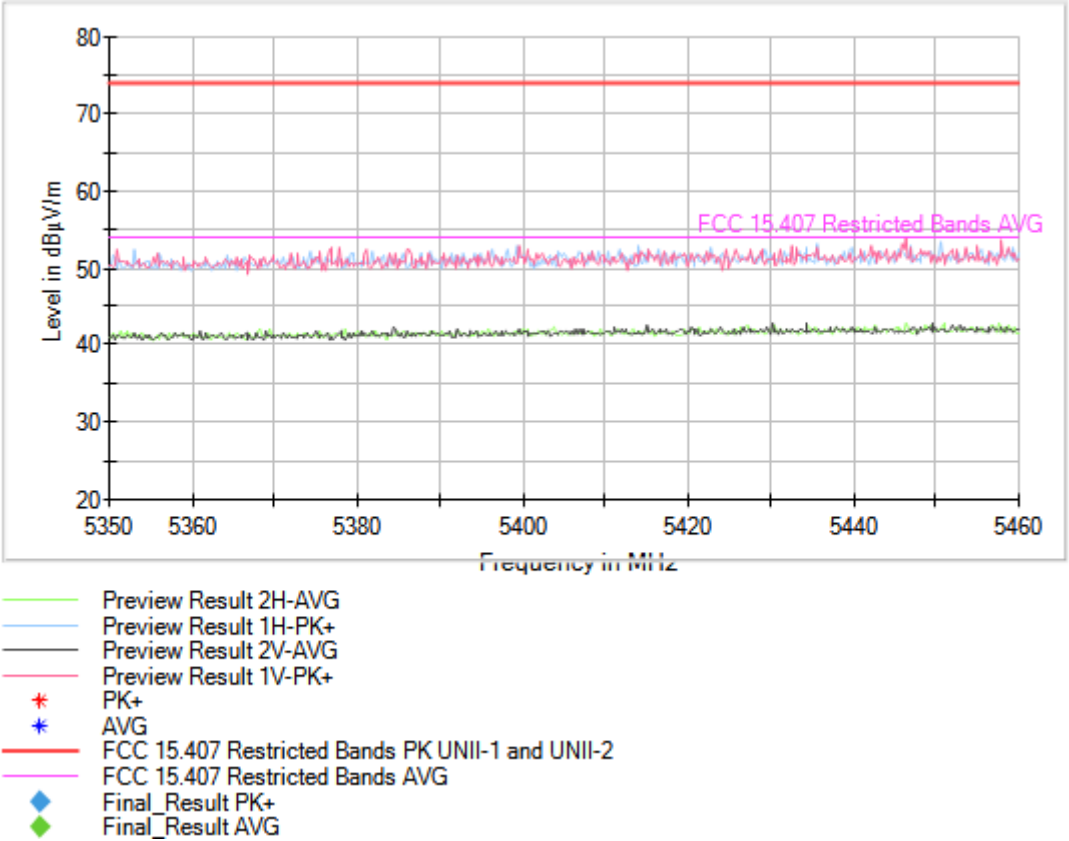




Operation Band MHz = [5150, 5250] Active Port = 1+2
Frequency Range GHz = [1, 7] Frequency MHz = 5200.00000
Modulation = 802.11ax HE20 (OFDMA MCS0) Resource Unit Tone/Index = 242/61
Subcarrier Mode = SU

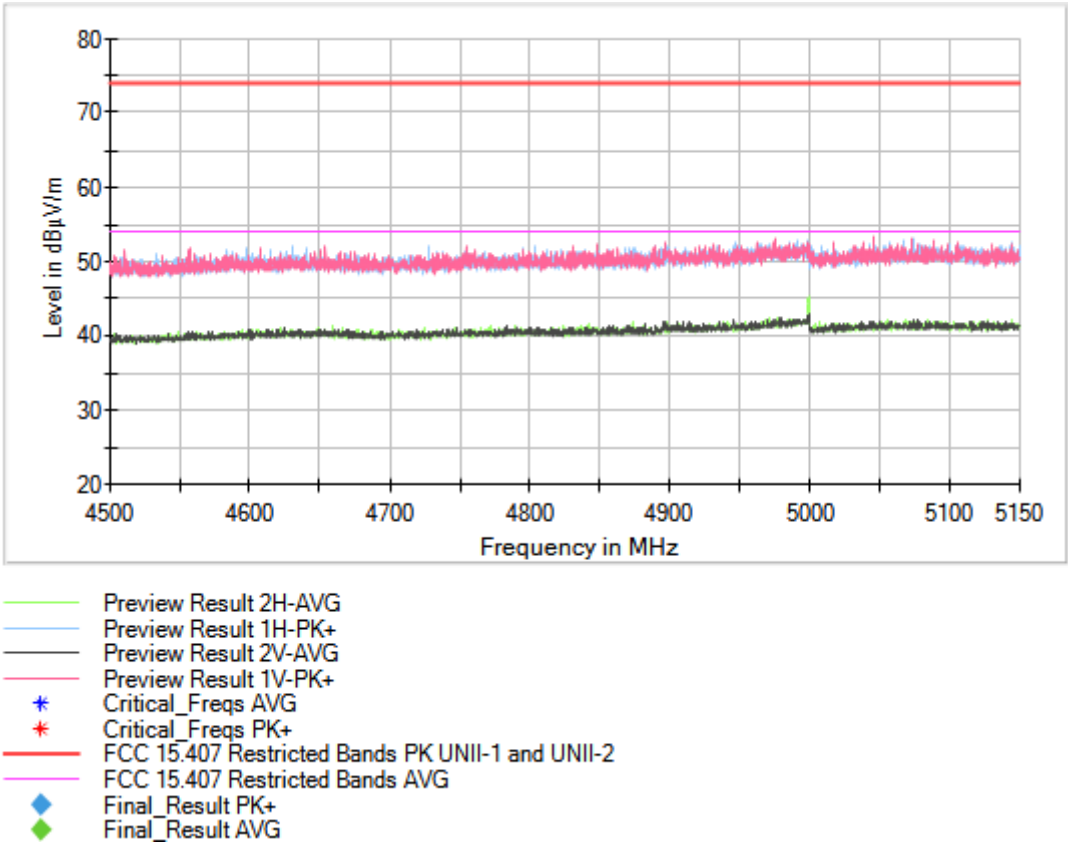
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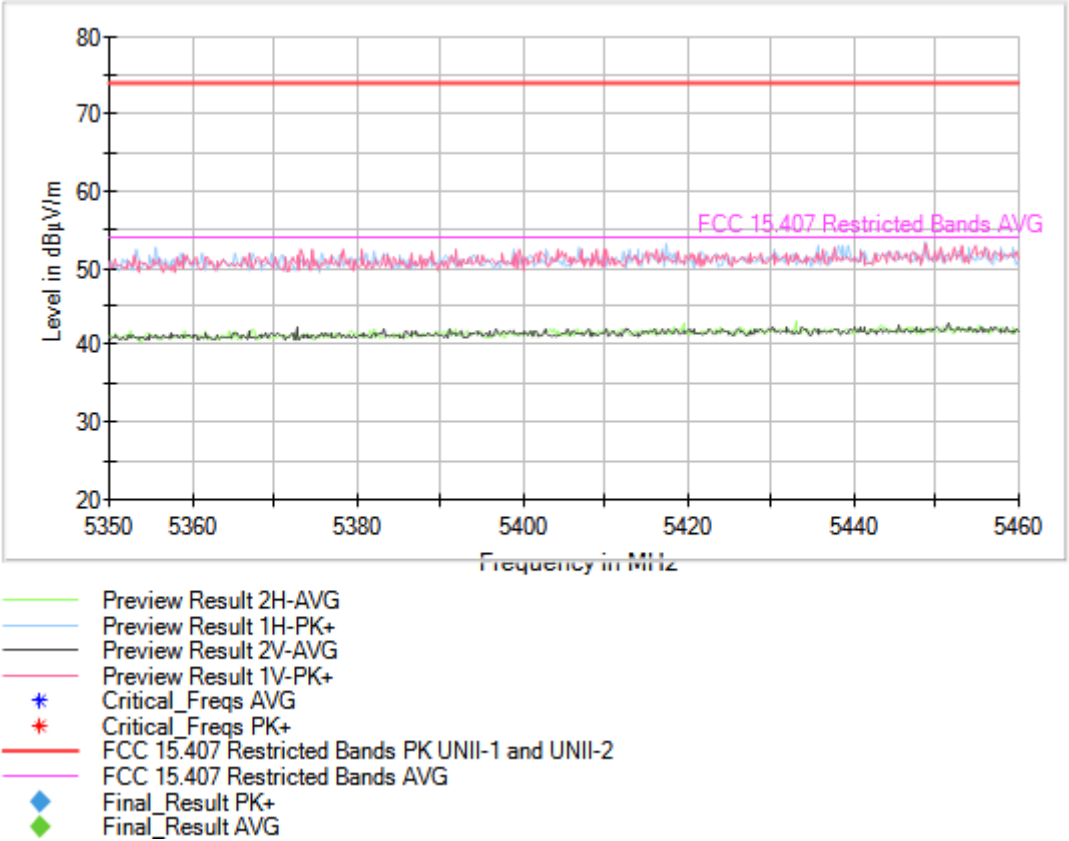




Operation Band MHz = [5150, 5250] Active Port = 1+2
Frequency Range GHz = [1, 7] Frequency MHz = 5200.00000
Modulation = 802.11ax HE20 (OFDMA MCS0) Resource Unit Tone/Index = 26/3
Subcarrier Mode = RU

Images:





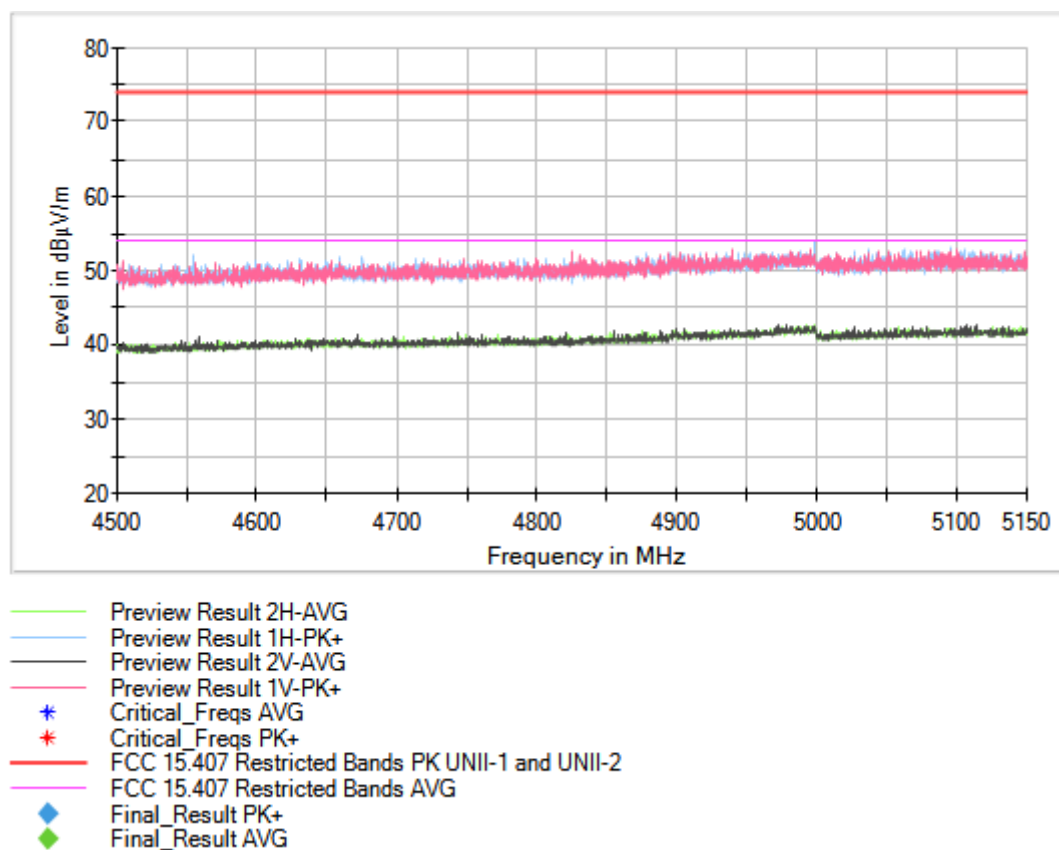
Active Port = 1+2

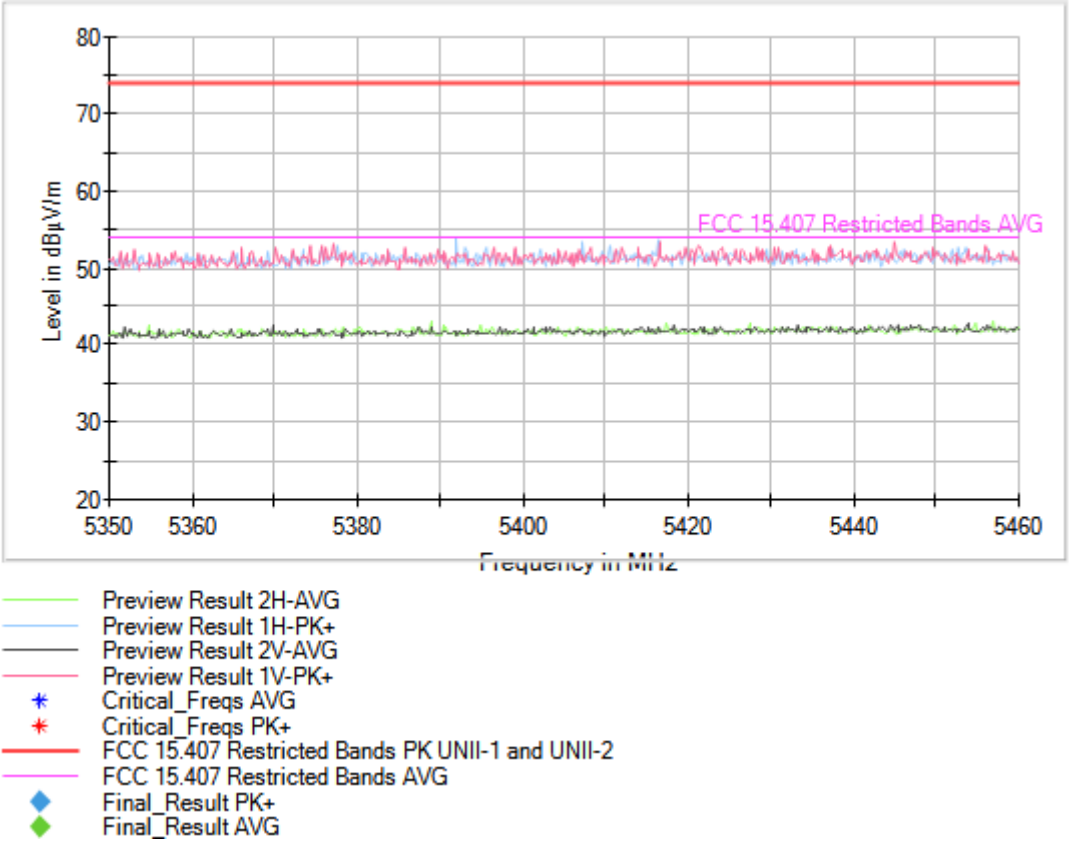
Frequency MHz = 5240.00000

Resource Unit Tone/Index = 242/61

Subcarrier Mode = SU

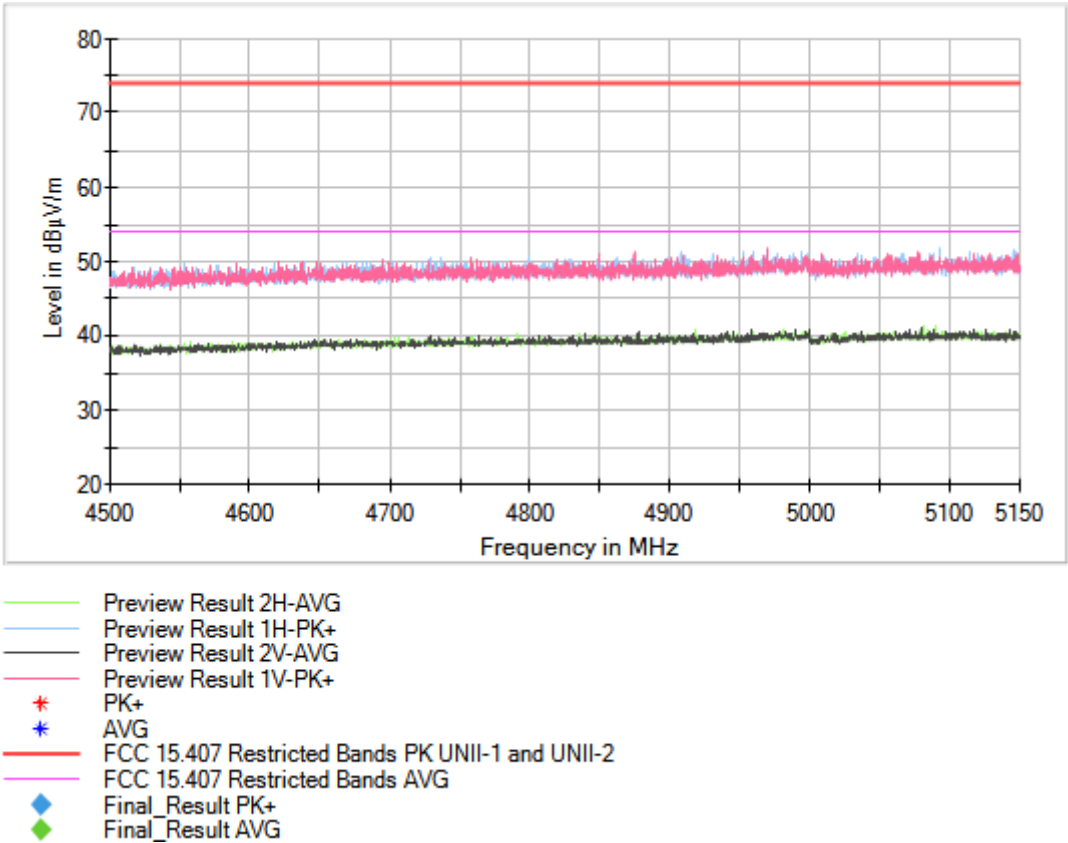
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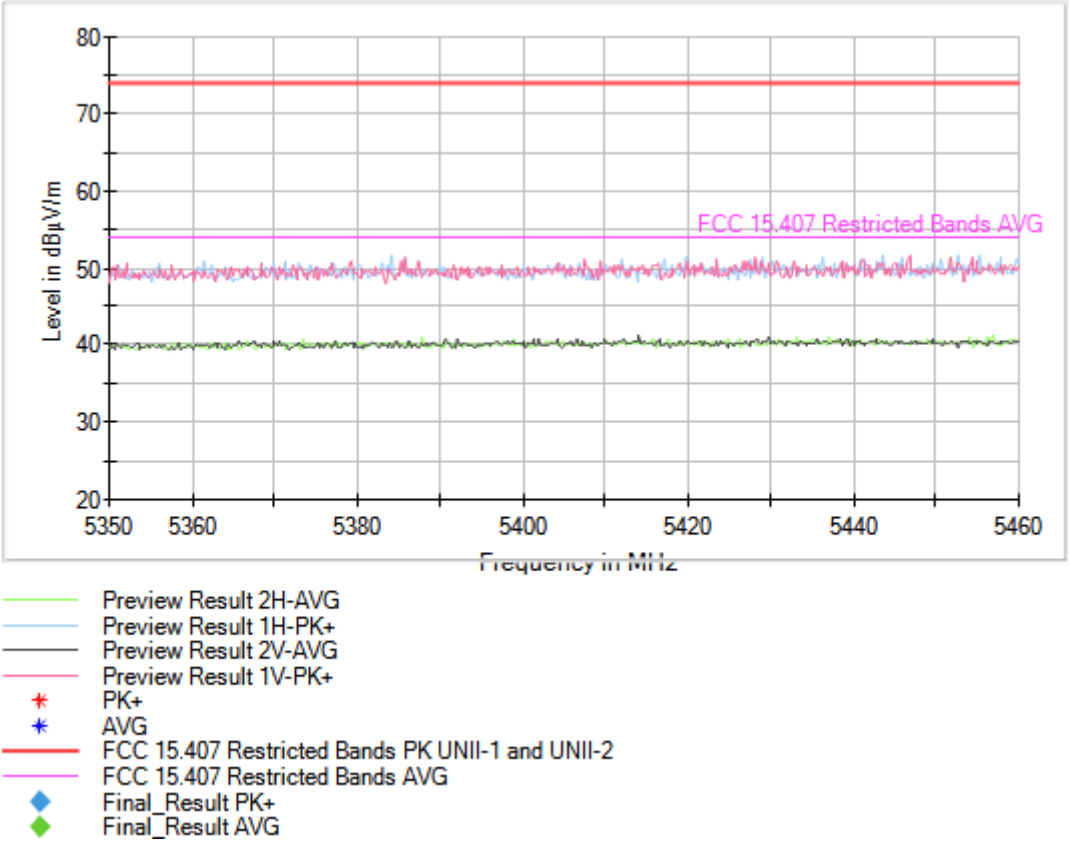




Operation Band MHz = [5150, 5250] Active Port = 1+2
Frequency Range GHz = [1, 7] Frequency MHz = 5240.00000
Modulation = 802.11ax HE20 (OFDMA MCS0) Resource Unit Tone/Index = 26/8
Subcarrier Mode = RU

Images:





Modulation: 802.11ax HE40 (OFDMA MCS0)

Results

Operation Band (MHz)	Port	Freq Rng (GHz)	Freq (MHz)	Subcarrier Mode	Unwanted Freq (MHz)	Unwanted Lvl (dBµV/m)	Pol	Detector
[5150, 5250]	2	[1, 7]	5190.00000	SU	5141.400	62.23	H	PK
[5150, 5250]	2	[1, 7]	5190.00000	SU	5141.400	43.89	H	AVG
[5150, 5250]	2	[1, 7]	5190.00000	SU	5149.600	65.78	H	PK
[5150, 5250]	2	[1, 7]	5190.00000	SU	5149.600	48.48	H	AVG
[5150, 5250]	2	[1, 7]	5190.00000	RU	5146.600	56.38	H	PK
[5150, 5250]	2	[1, 7]	5190.00000	RU	5146.600	41.49	H	AVG
[5150, 5250]	2	[1, 7]	5190.00000	RU	5150.000	59.74	H	PK
[5150, 5250]	2	[1, 7]	5190.00000	RU	5150.000	41.58	H	AVG
[5150, 5250]	2	[1, 7]	5190.00000	RU	5456.600	53.51	H	PK
[5150, 5250]	2	[1, 7]	5190.00000	RU	5456.600	42.03	H	AVG
[5150, 5250]	2	[1, 7]	5230.00000	SU	5448.600	51.77	V	PK
[5150, 5250]	2	[1, 7]	5230.00000	SU	5448.600	39.56	V	AVG
[5150, 5250]	1+2	[1, 7]	5230.00000	RU	5405.600	54.21	H	PK
[5150, 5250]	1+2	[1, 7]	5230.00000	RU	5405.600	42.18	H	AVG

Verdict

Pass

Attachments

Operation Band MHz = [5150, 5250]

Active Port = 2

Frequency Range GHz = [1, 7]

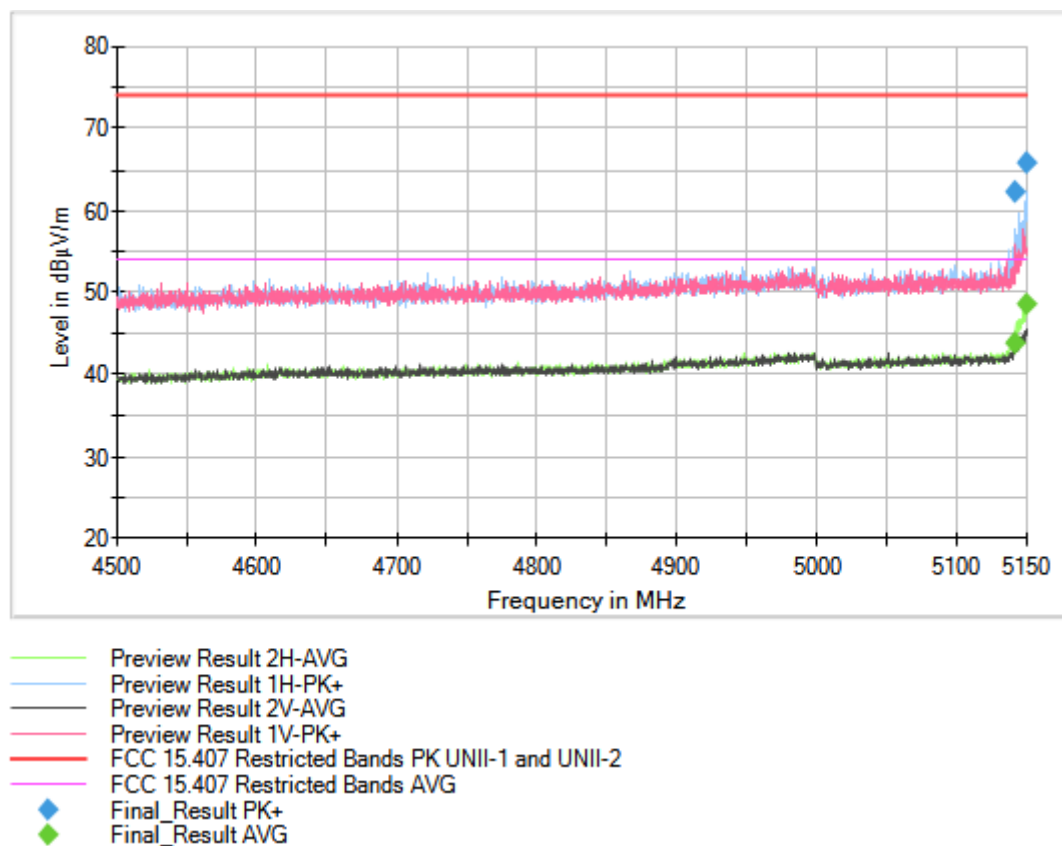
Frequency MHz = 5190.00000

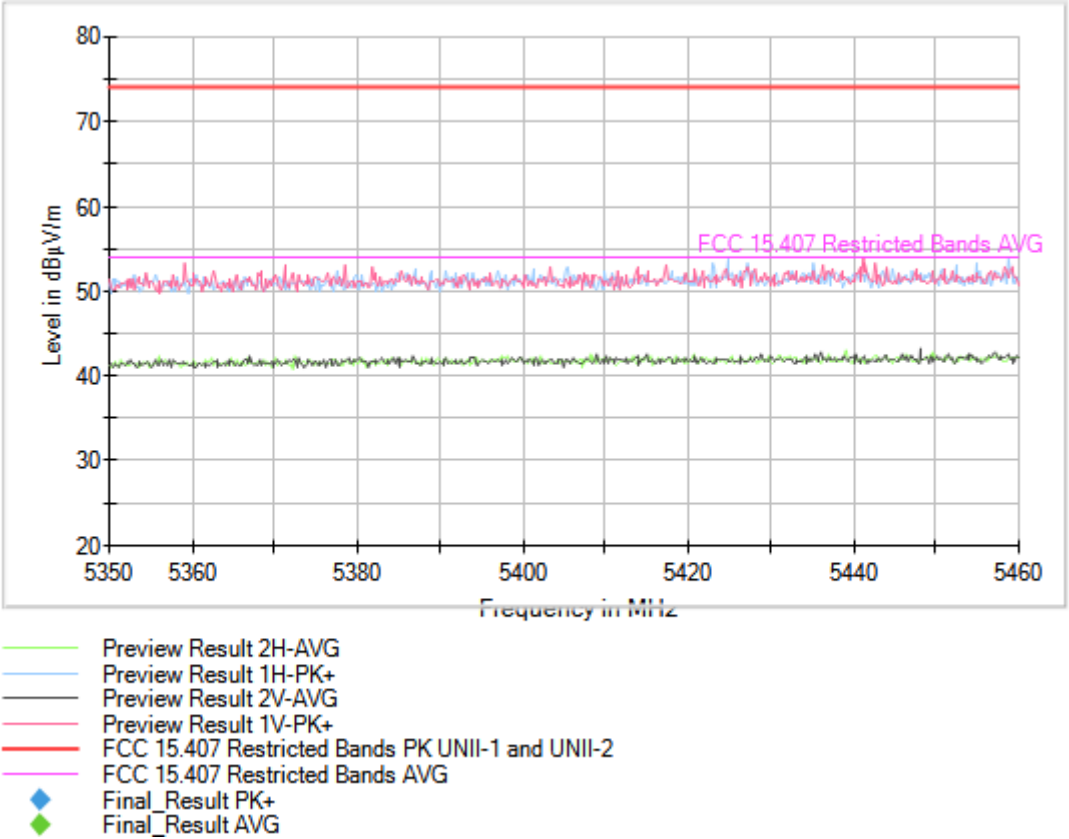
Modulation = 802.11ax HE40 (OFDMA MCS0)

Resource Unit Tone/Index = 484/65

Subcarrier Mode = SU

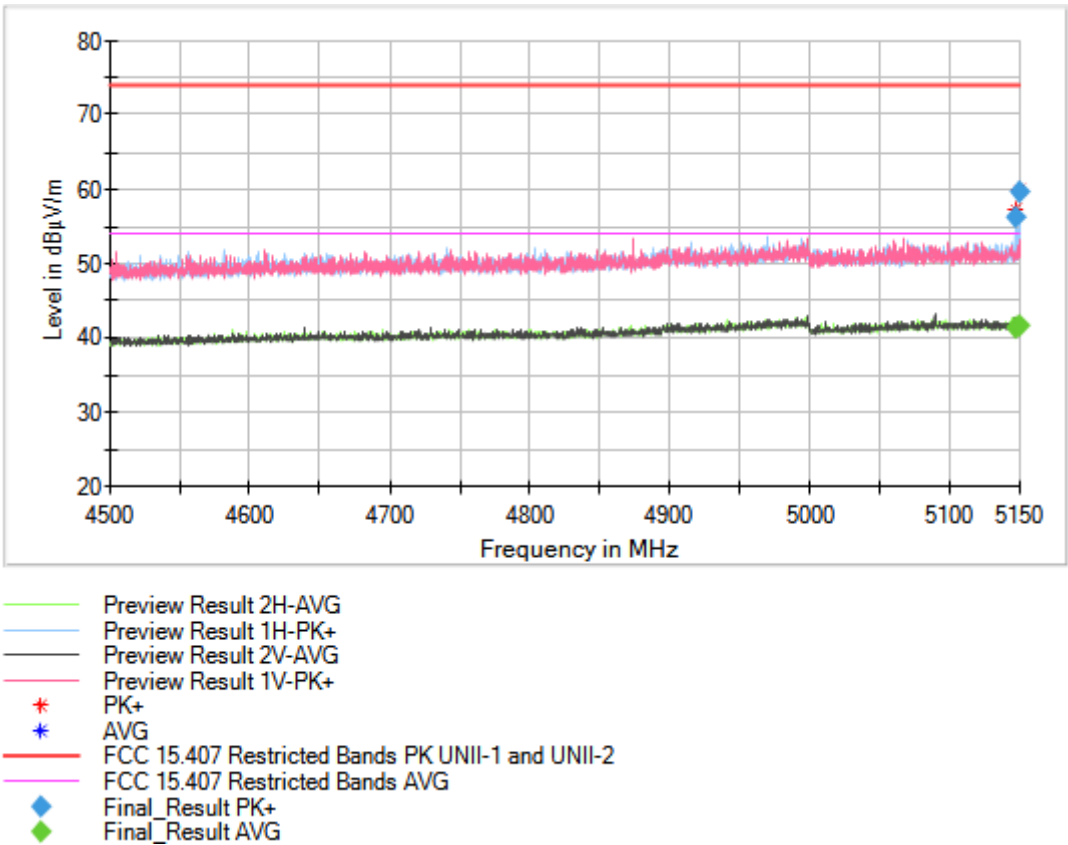
Images:

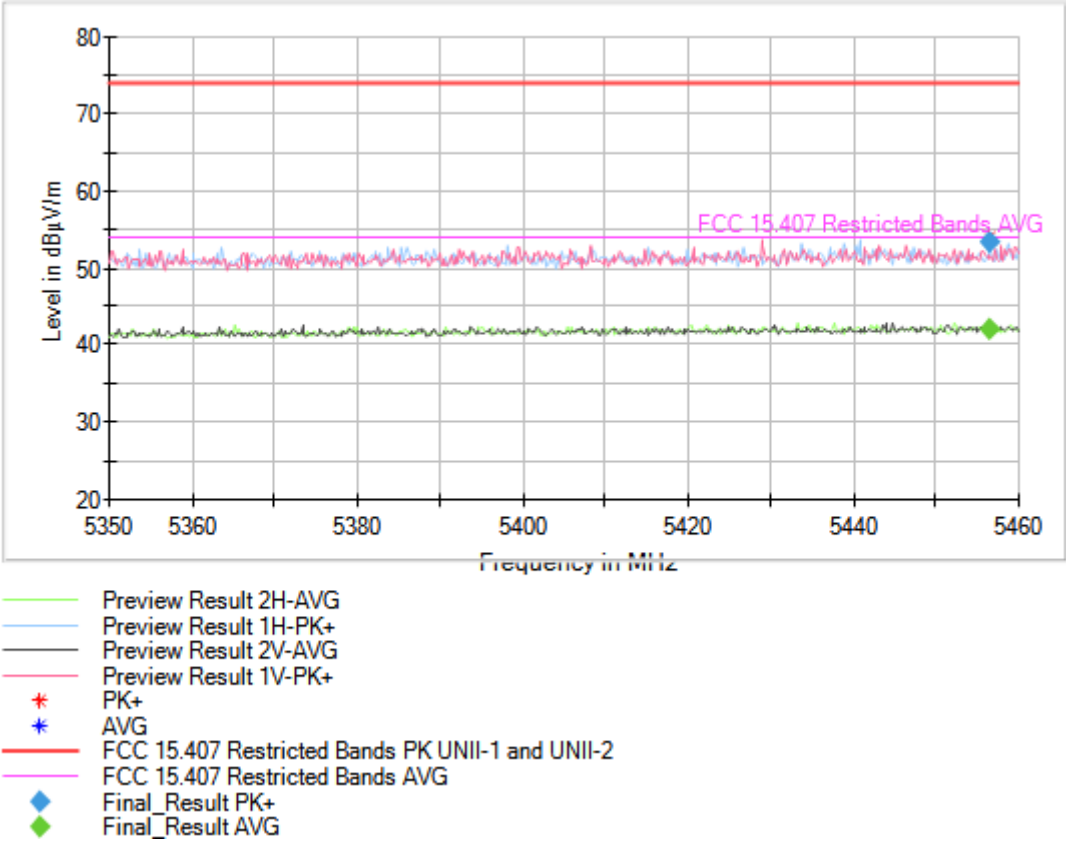




Operation Band MHz = [5150, 5250] Active Port = 2
Frequency Range GHz = [1, 7] Frequency MHz = 5190.00000
Modulation = 802.11ax HE40 (OFDMA MCS0) Resource Unit Tone/Index = 26/0
Subcarrier Mode = RU

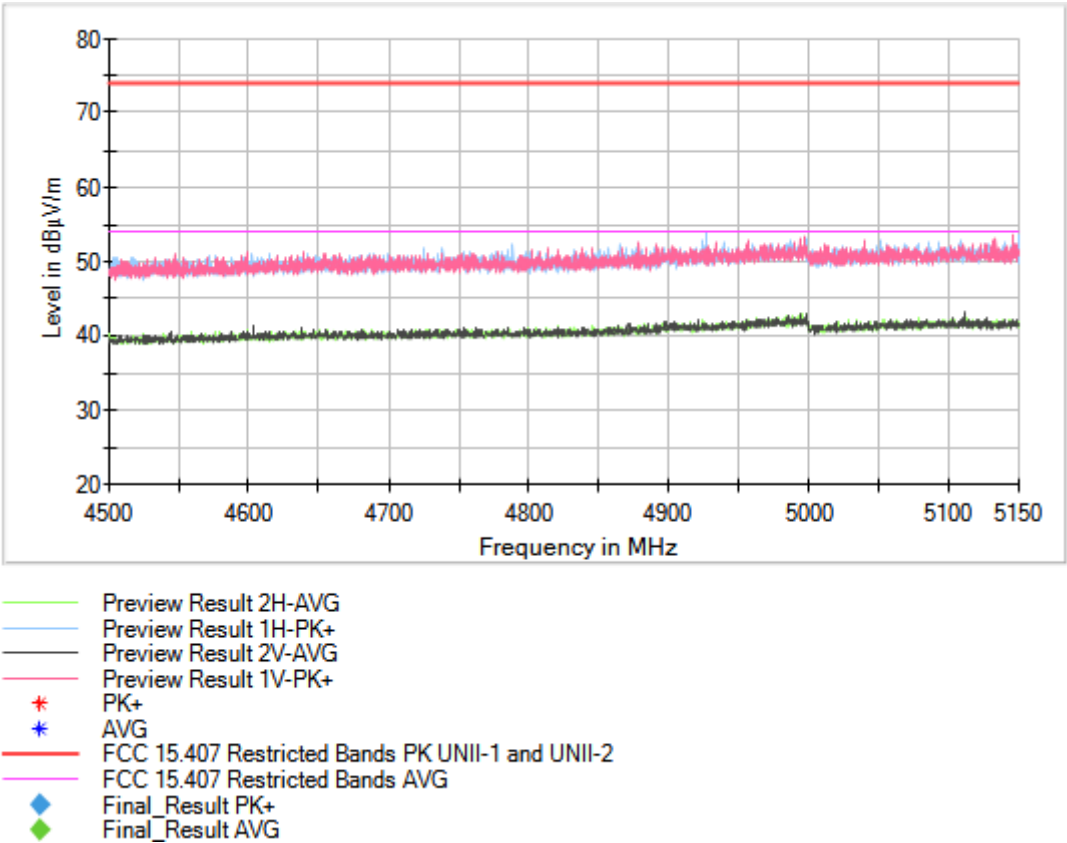
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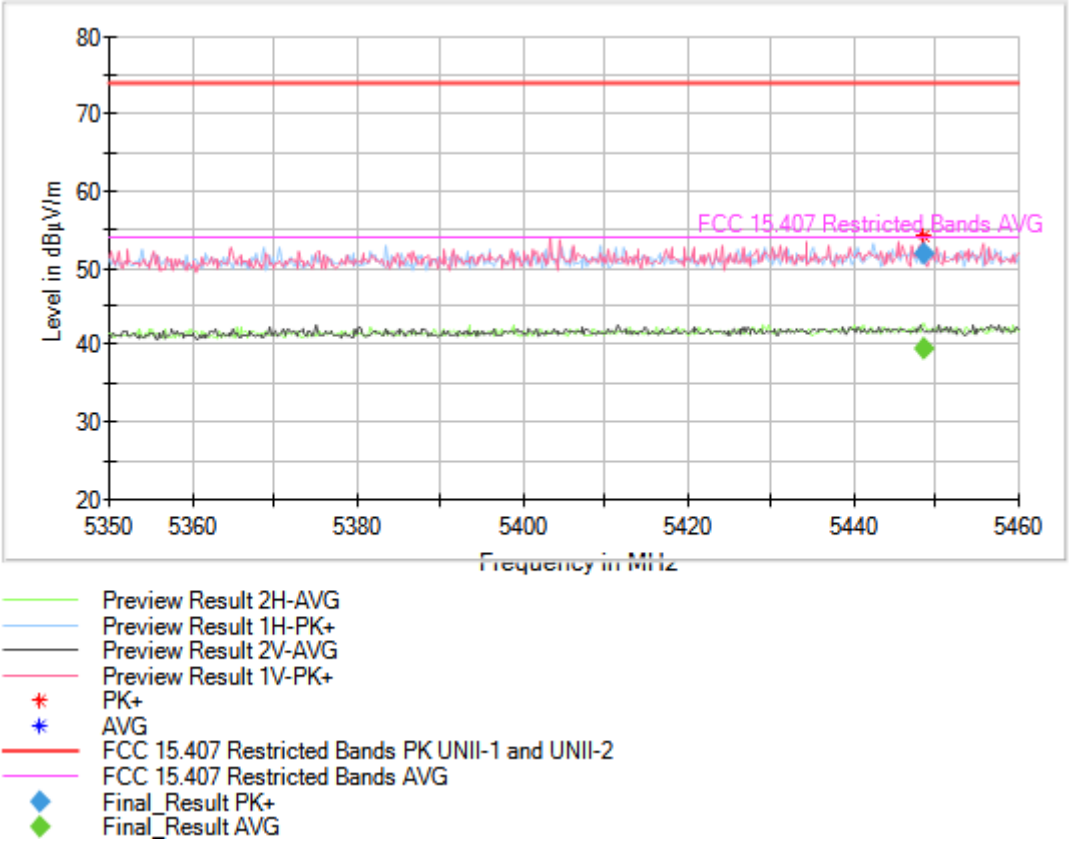




Operation Band MHz = [5150, 5250] Active Port = 2
Frequency Range GHz = [1, 7] Frequency MHz = 5230.00000
Modulation = 802.11ax HE40 (OFDMA MCS0) Resource Unit Tone/Index = 484/65
Subcarrier Mode = SU

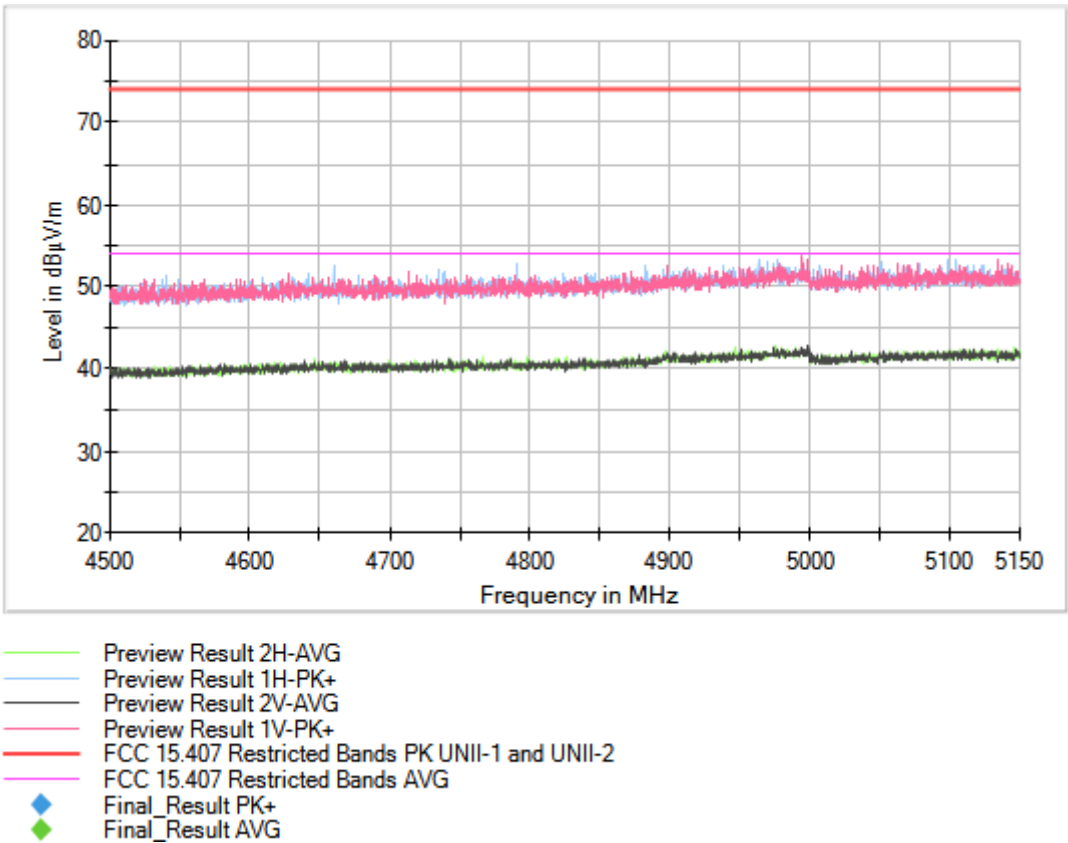
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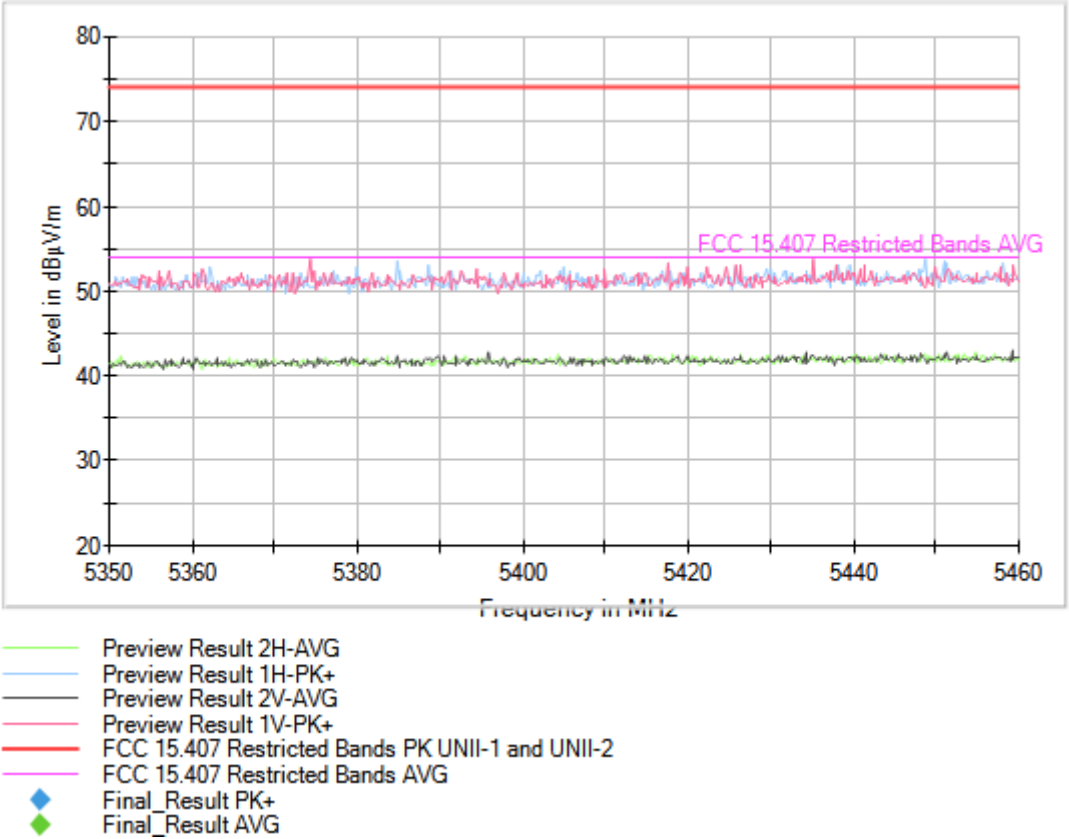




Operation Band MHz = [5150, 5250] Active Port = 2
Frequency Range GHz = [1, 7] Frequency MHz = 5230.00000
Modulation = 802.11ax HE40 (OFDMA MCS0) Resource Unit Tone/Index = 26/17
Subcarrier Mode = RU

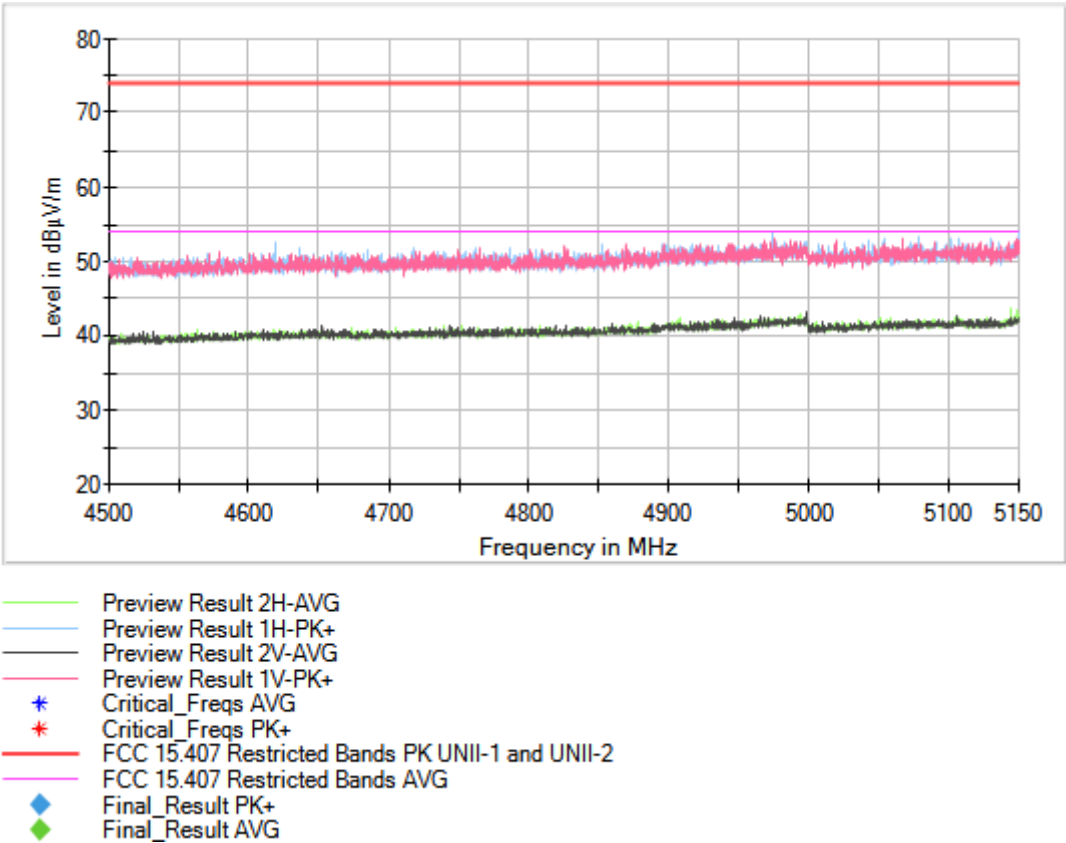
Images:

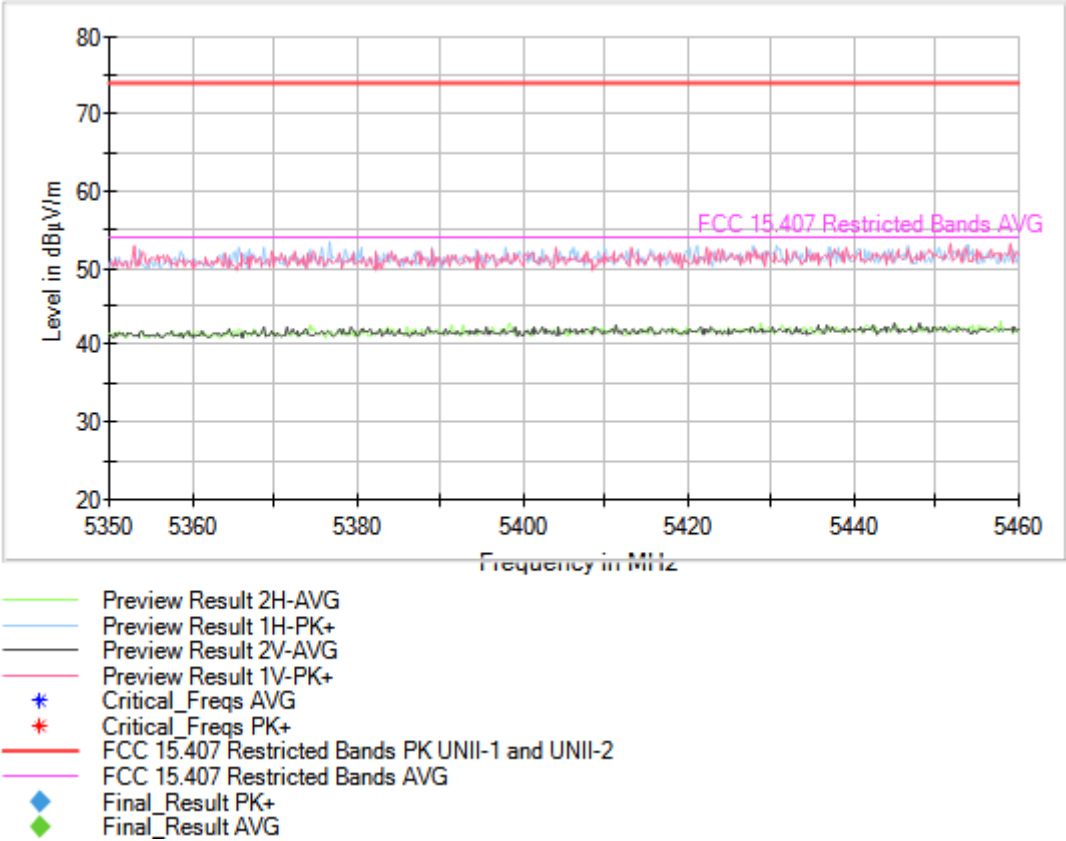




Operation Band MHz = [5150, 5250] Active Port = 1+2
Frequency Range GHz = [1, 7] Frequency MHz = 5190.00000
Modulation = 802.11ax HE40 (OFDMA MCS0) Resource Unit Tone/Index = 484/65
Subcarrier Mode = SU

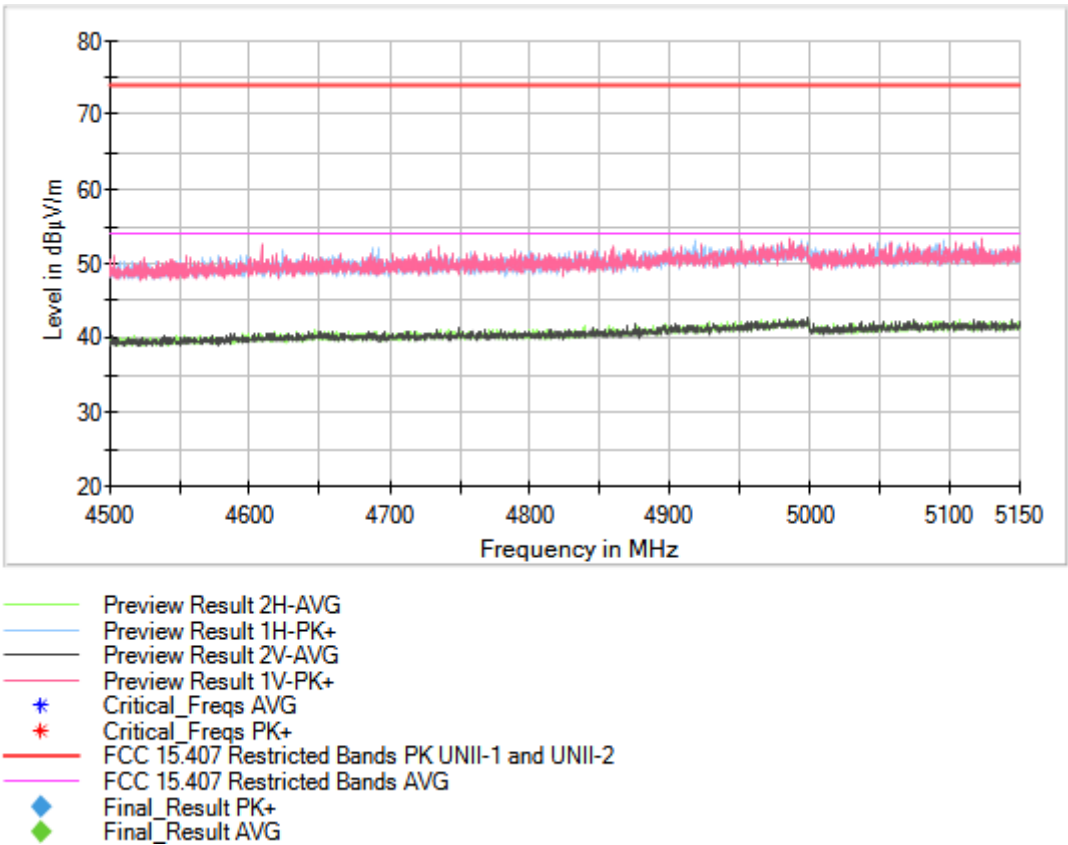
Images:

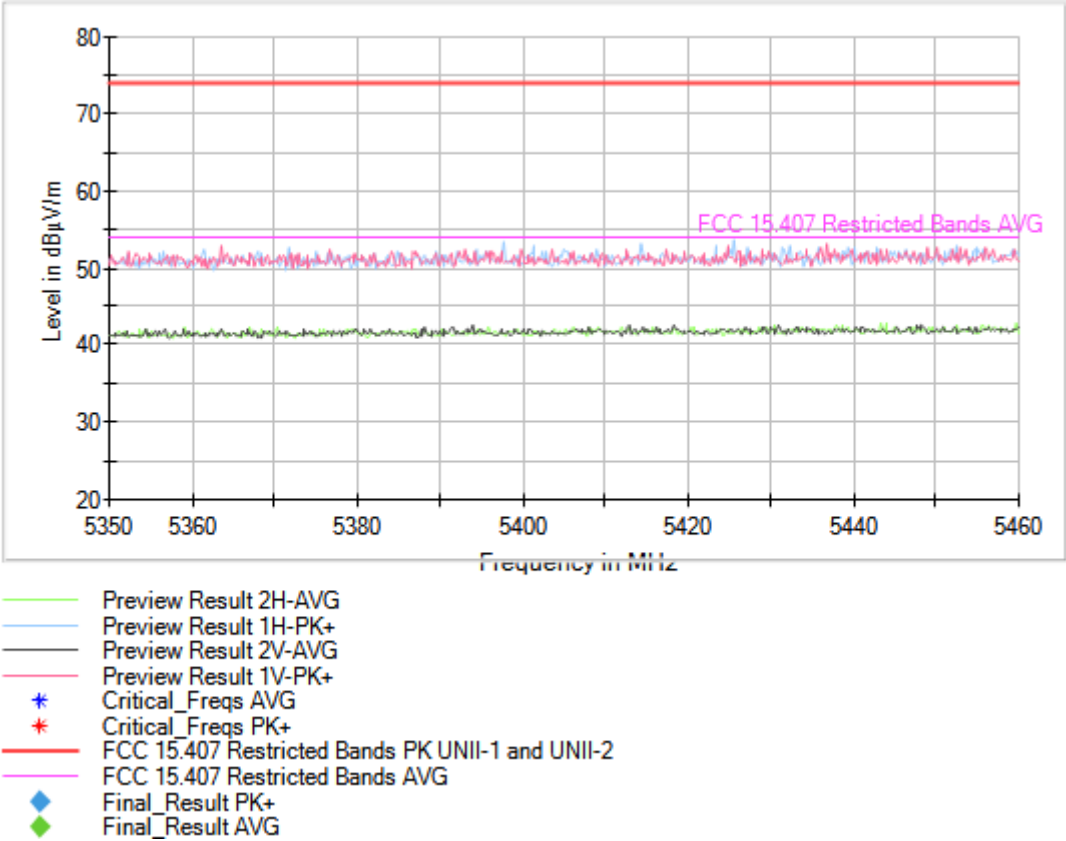




Operation Band MHz = [5150, 5250] Active Port = 1+2
Frequency Range GHz = [1, 7] Frequency MHz = 5190.00000
Modulation = 802.11ax HE40 (OFDMA MCS0) Resource Unit Tone/Index = 26/0
Subcarrier Mode = RU

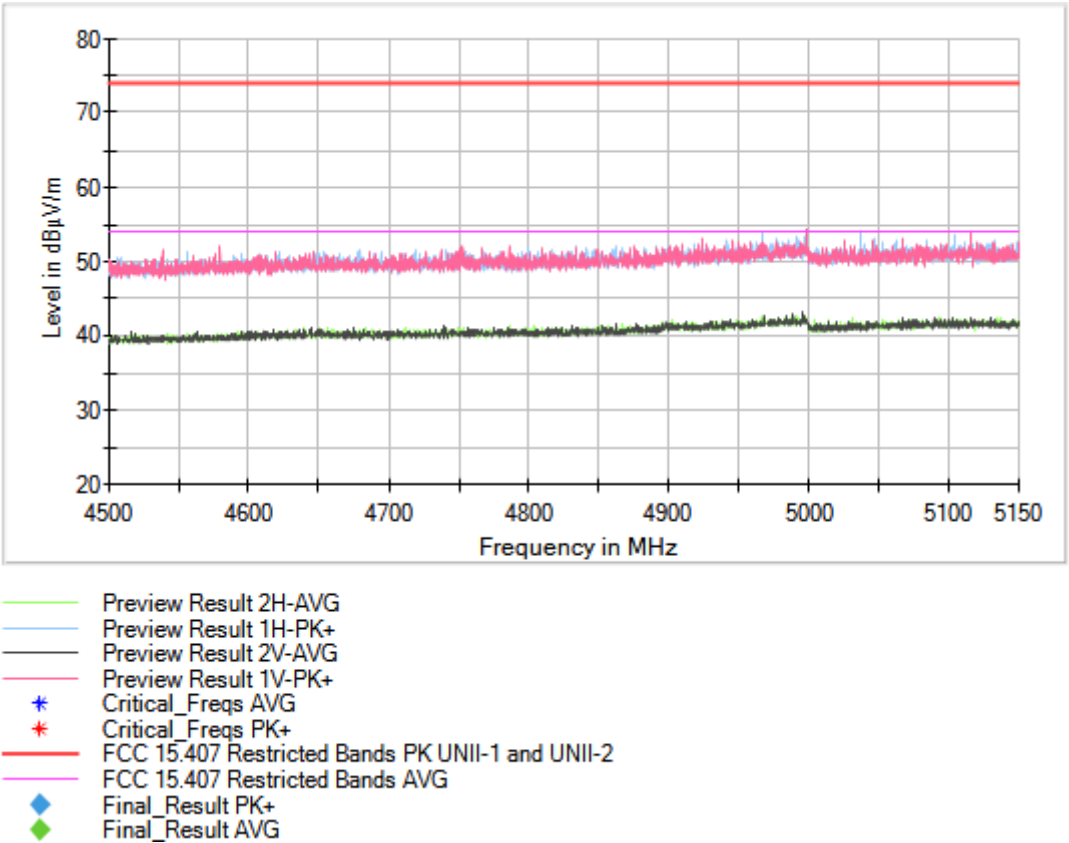
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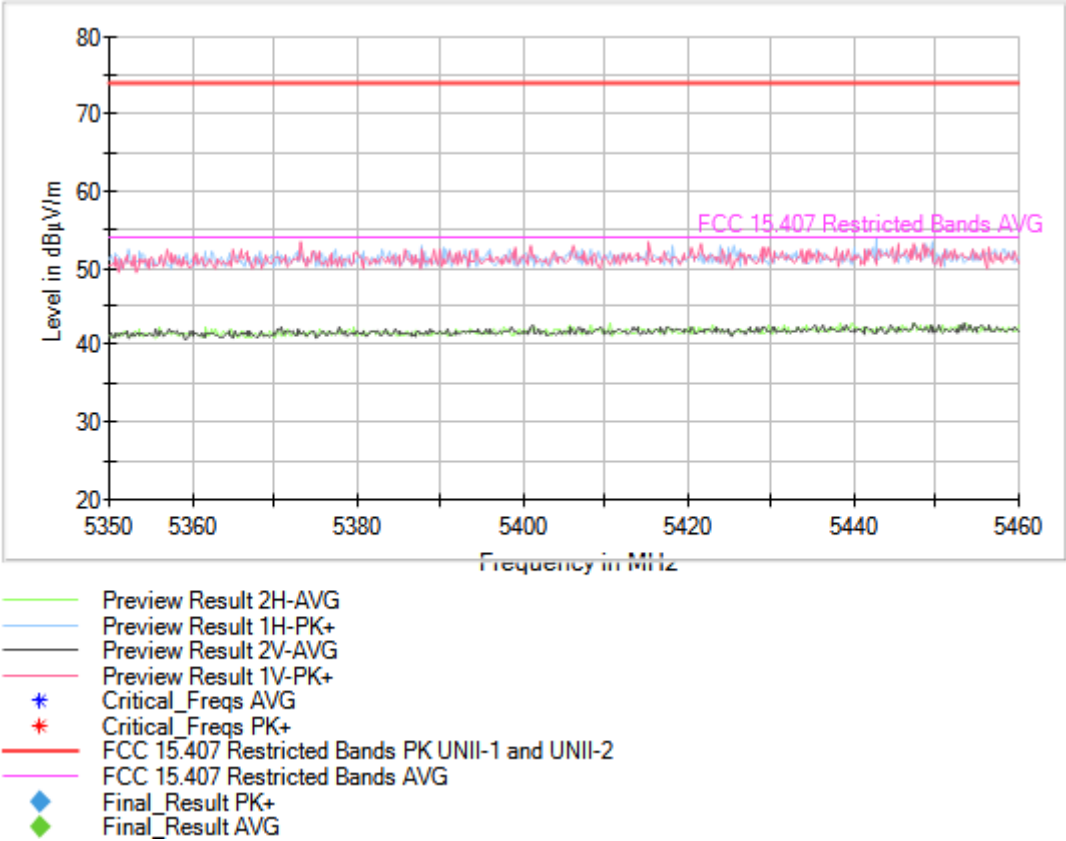




Operation Band MHz = [5150, 5250] Active Port = 1+2
Frequency Range GHz = [1, 7] Frequency MHz = 5230.00000
Modulation = 802.11ax HE40 (OFDMA MCS0) Resource Unit Tone/Index = 484/65
Subcarrier Mode = SU

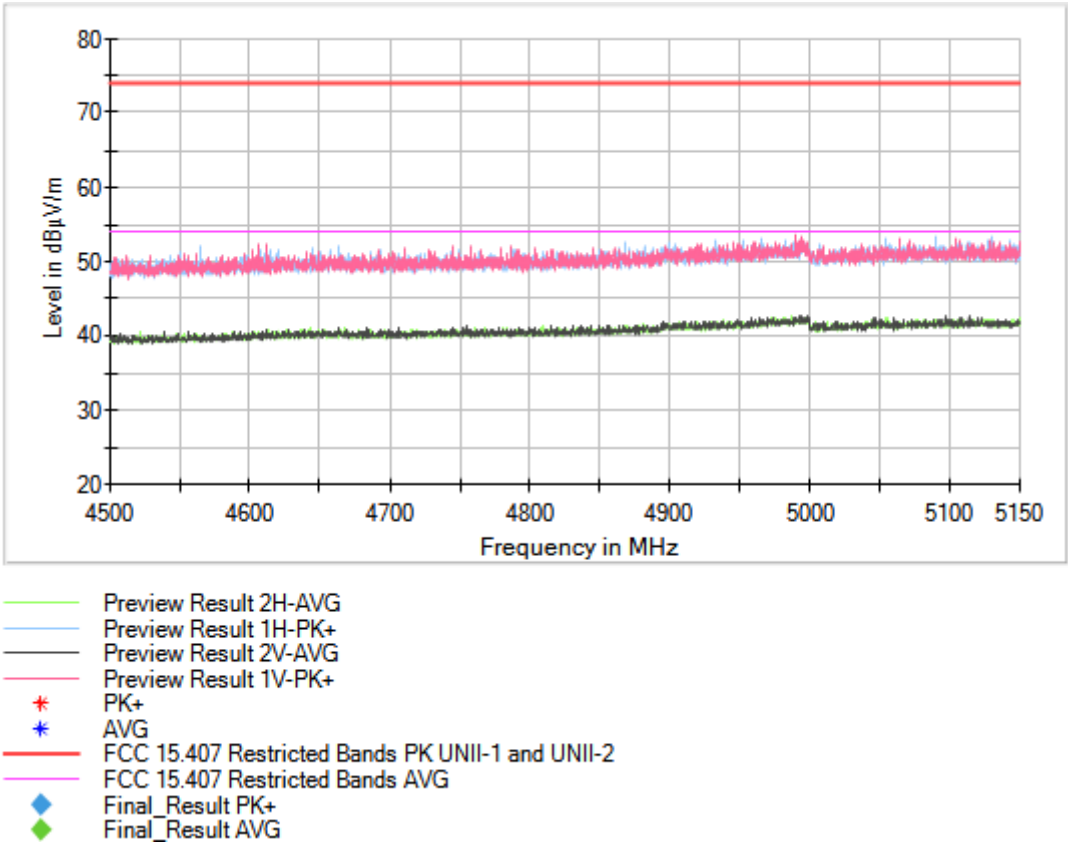
Images:

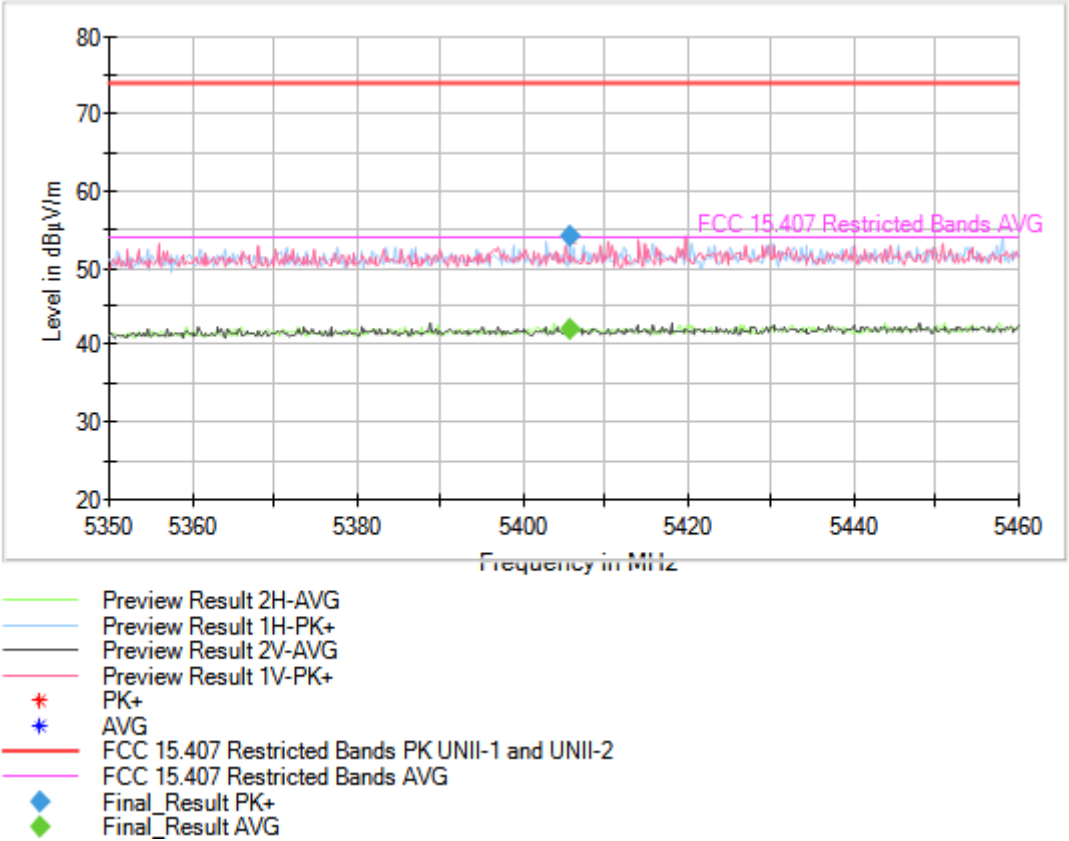




Operation Band MHz = [5150, 5250] Active Port = 1+2
Frequency Range GHz = [1, 7] Frequency MHz = 5230.00000
Modulation = 802.11ax HE40 (OFDMA MCS0) Resource Unit Tone/Index = 26/17
Subcarrier Mode = RU

Images:





Modulation: 802.11ax HE80 (OFDMA MCS0)

Results

No spurious emissions were detected.

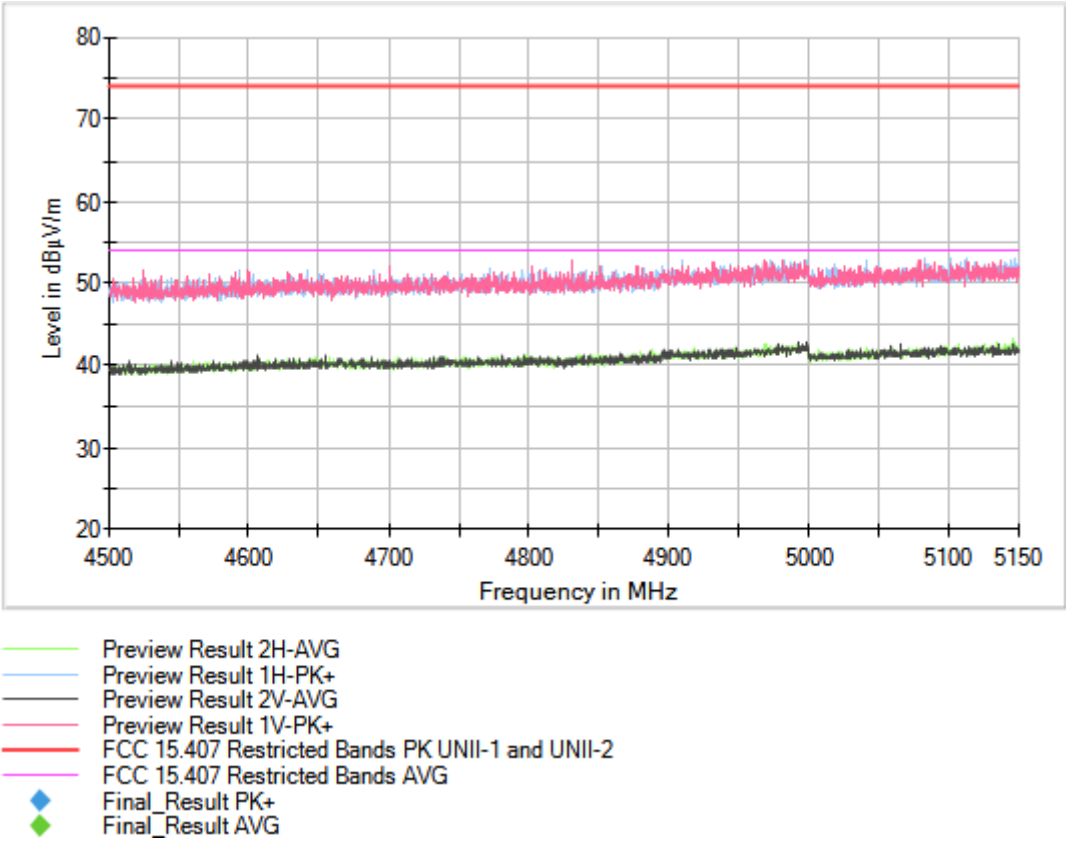
Verdict

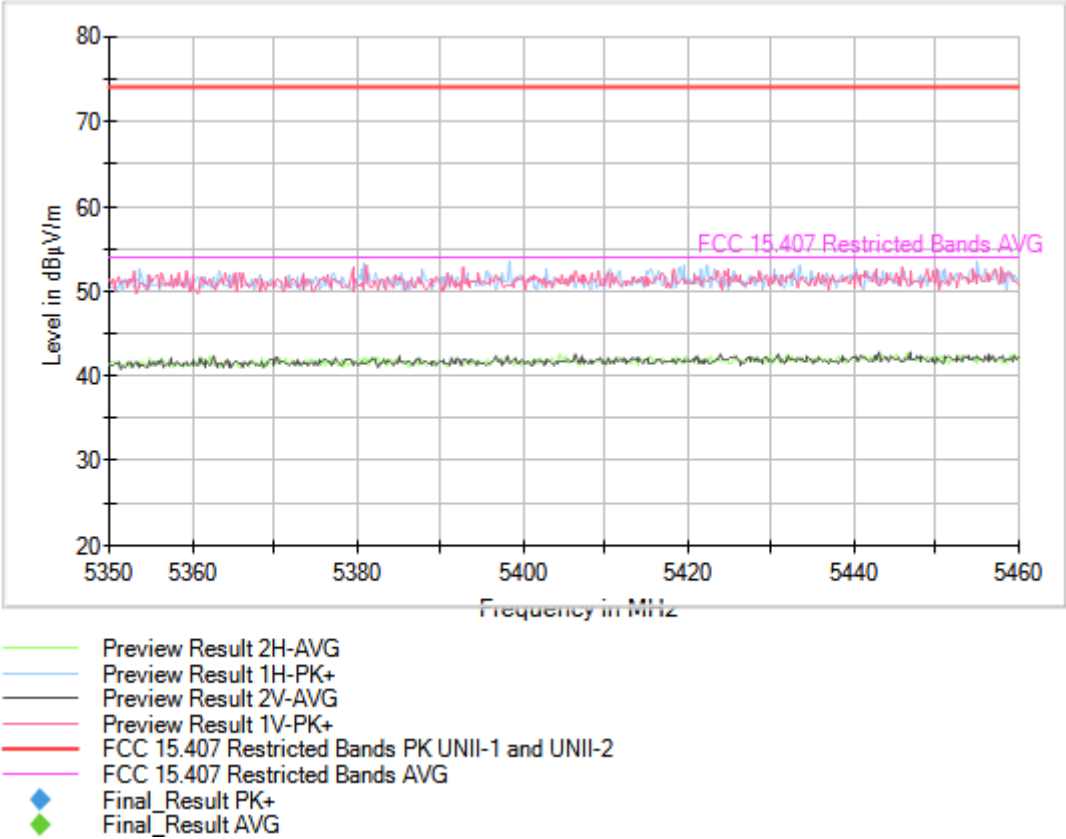
Pass

Attachments

Operation Band MHz = [5150, 5250] Active Port = 2
Frequency Range GHz = [1, 7] Frequency MHz = 5210.00000
Modulation = 802.11ax HE80 (OFDMA MCS0) Resource Unit Tone/Index = 996/67
Subcarrier Mode = SU

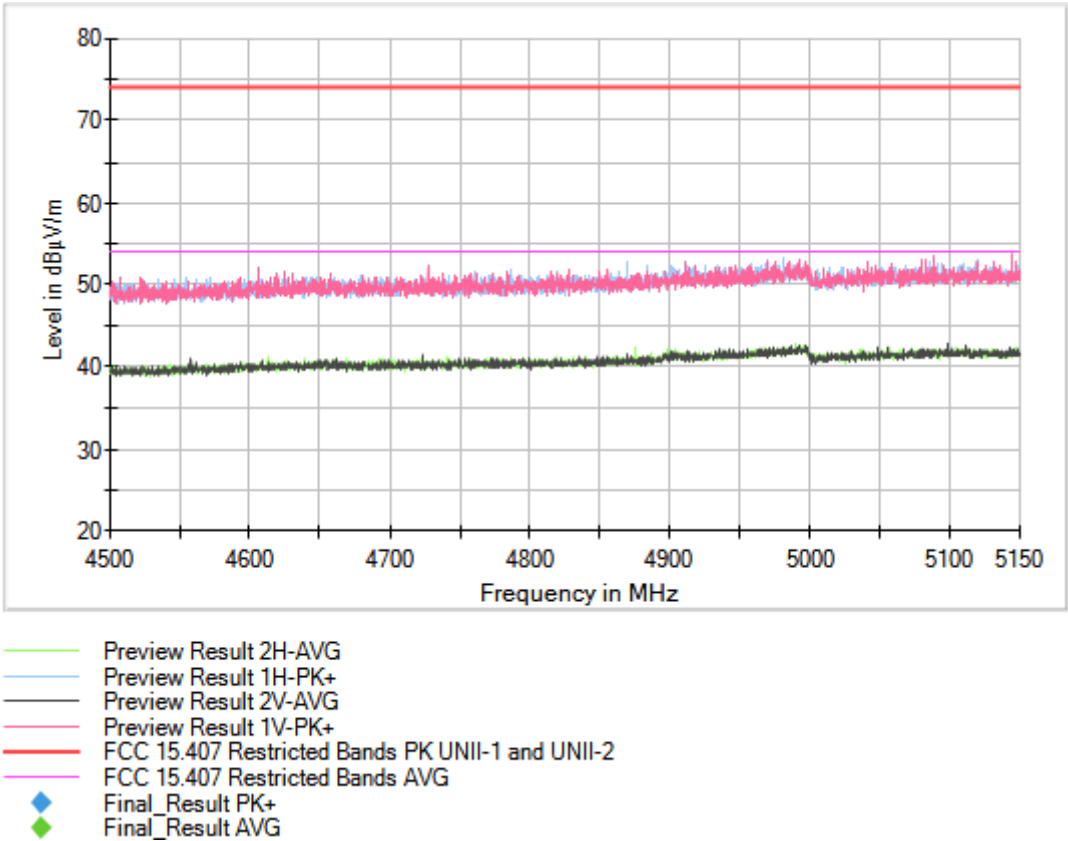
Images:

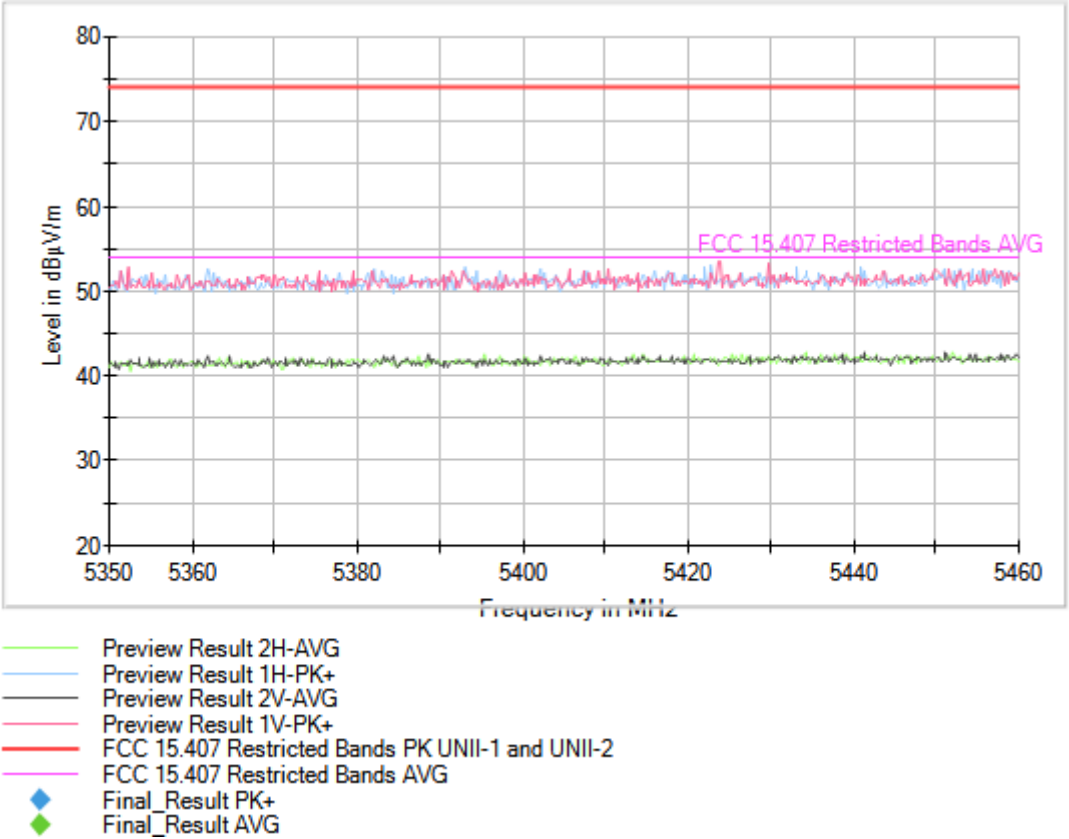




Operation Band MHz = [5150, 5250] Active Port = 2
Frequency Range GHz = [1, 7] Frequency MHz = 5210.00000
Modulation = 802.11ax HE80 (OFDMA MCS0) Resource Unit Tone/Index = 26/0
Subcarrier Mode = RU

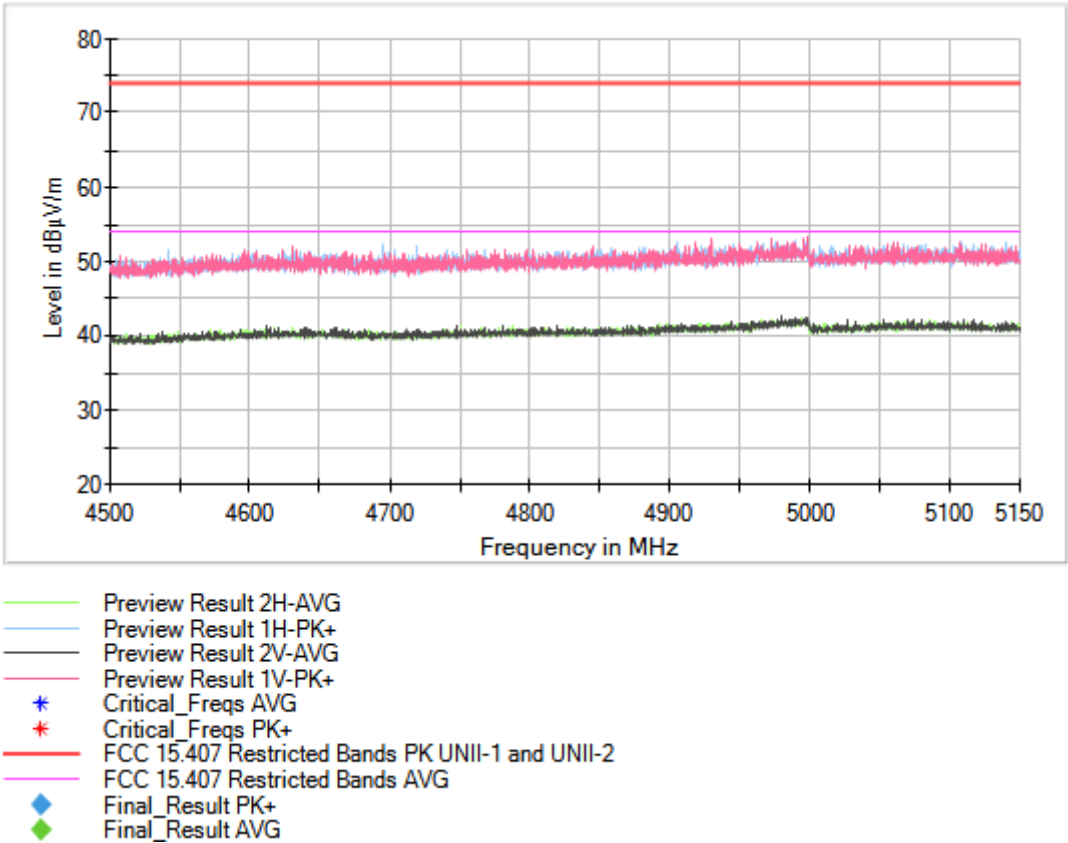
Images:

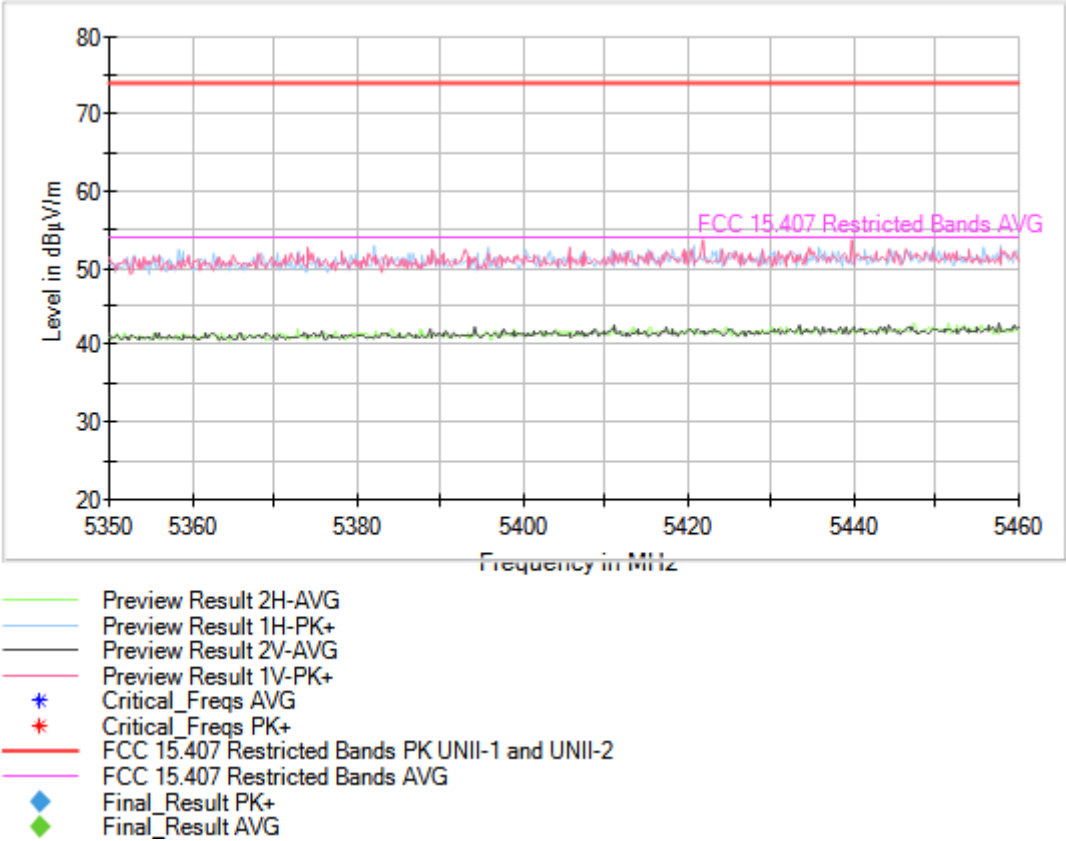




Operation Band MHz = [5150, 5250] Active Port = 2
Frequency Range GHz = [1, 7] Frequency MHz = 5210.00000
Modulation = 802.11ax HE80 (OFDMA MCS0) Resource Unit Tone/Index = 26/17
Subcarrier Mode = RU

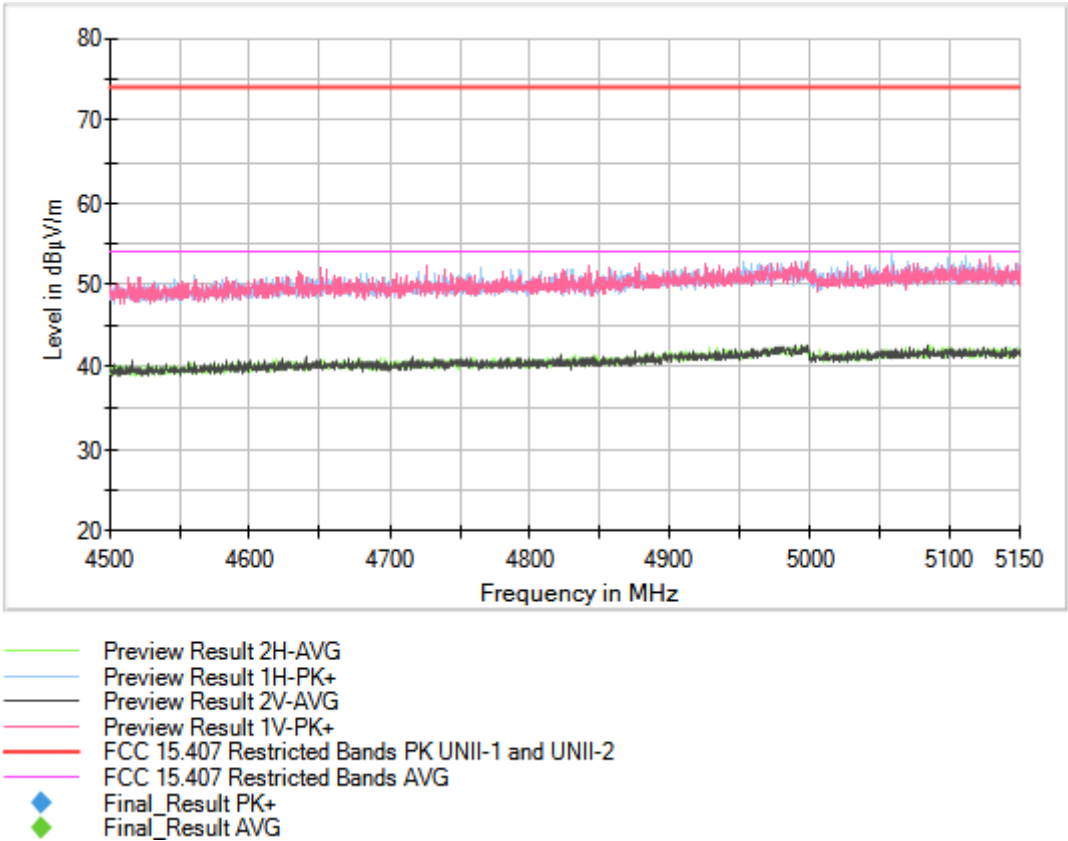
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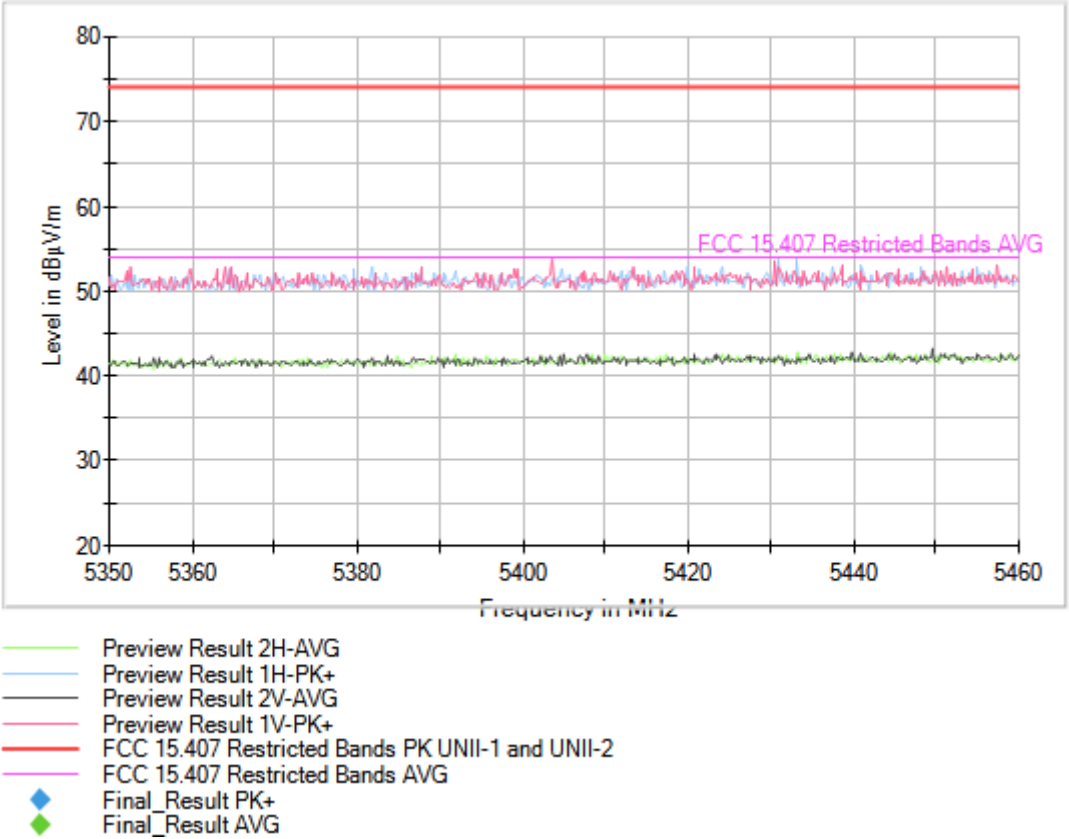




Operation Band MHz = [5150, 5250] Active Port = 2
Frequency Range GHz = [1, 7] Frequency MHz = 5210.00000
Modulation = 802.11ax HE80 (OFDMA MCS0) Resource Unit Tone/Index = 26/36
Subcarrier Mode = RU

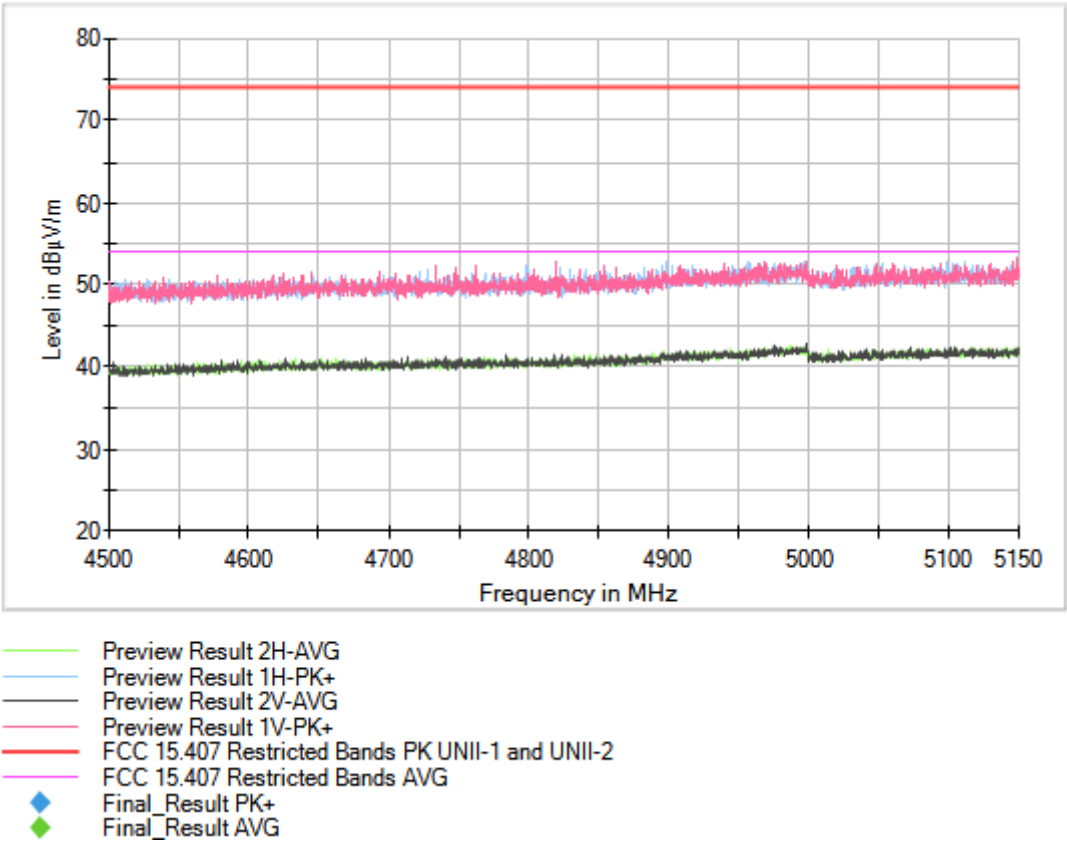
Images:

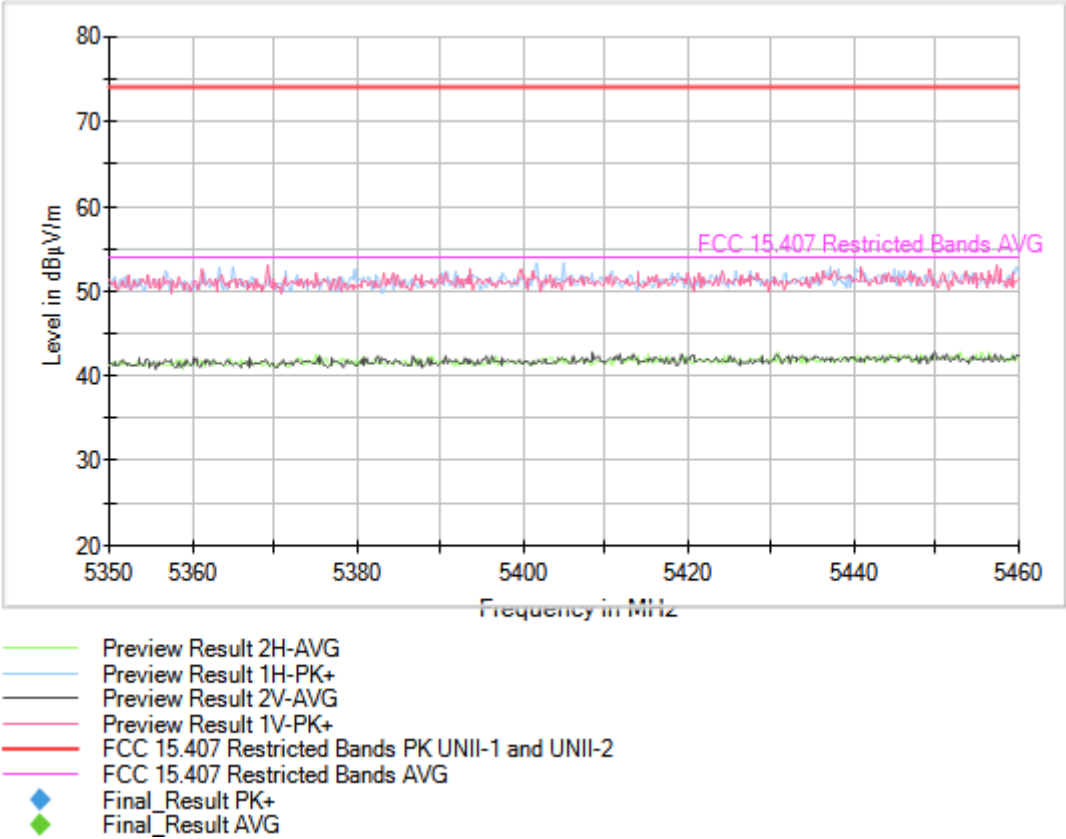




Operation Band MHz = [5150, 5250] Active Port = 1+2
Frequency Range GHz = [1, 7] Frequency MHz = 5210.00000
Modulation = 802.11ax HE80 (OFDMA MCS0) Resource Unit Tone/Index = 996/67
Subcarrier Mode = SU

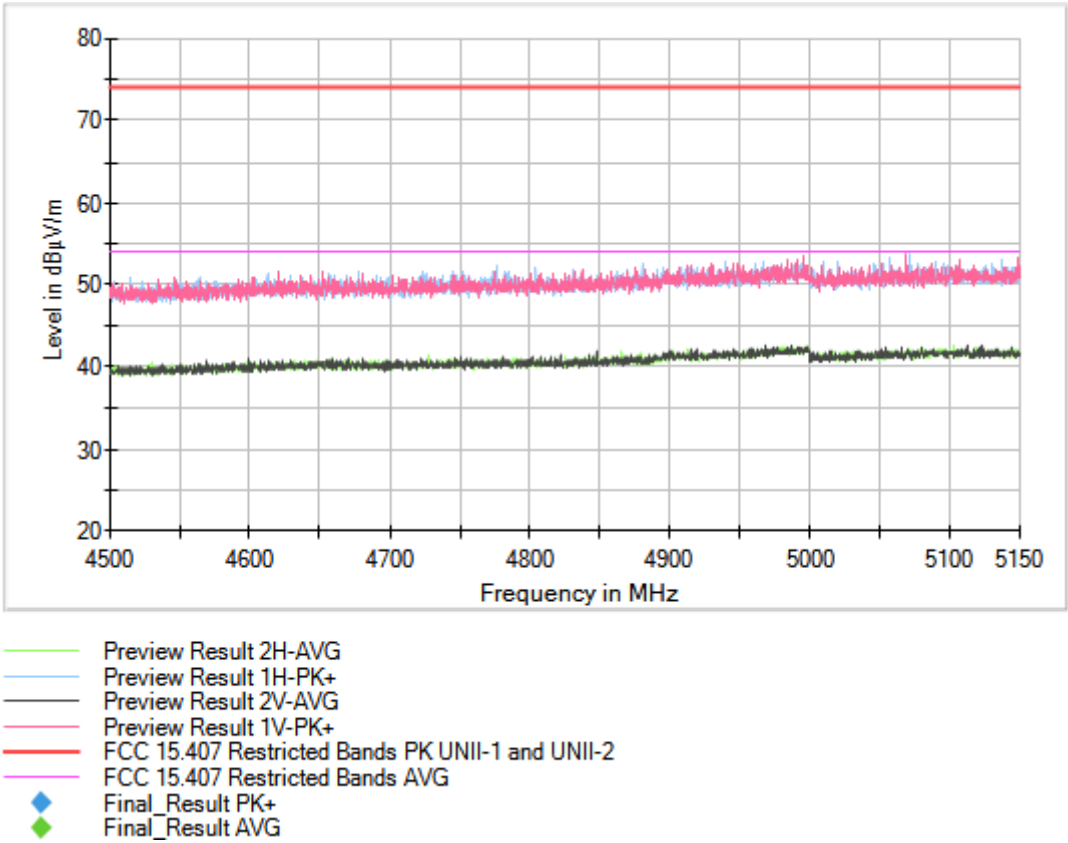
Images:

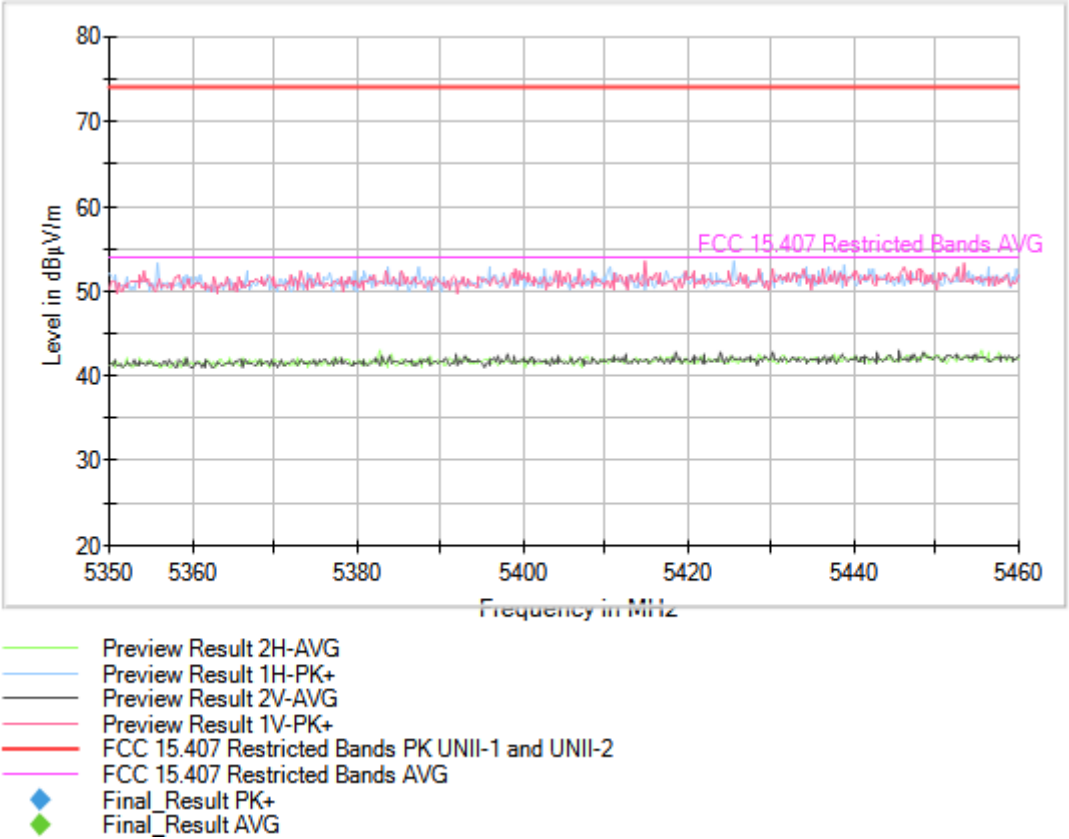




Operation Band MHz = [5150, 5250] Active Port = 1+2
Frequency Range GHz = [1, 7] Frequency MHz = 5210.00000
Modulation = 802.11ax HE80 (OFDMA MCS0) Resource Unit Tone/Index = 26/0
Subcarrier Mode = RU

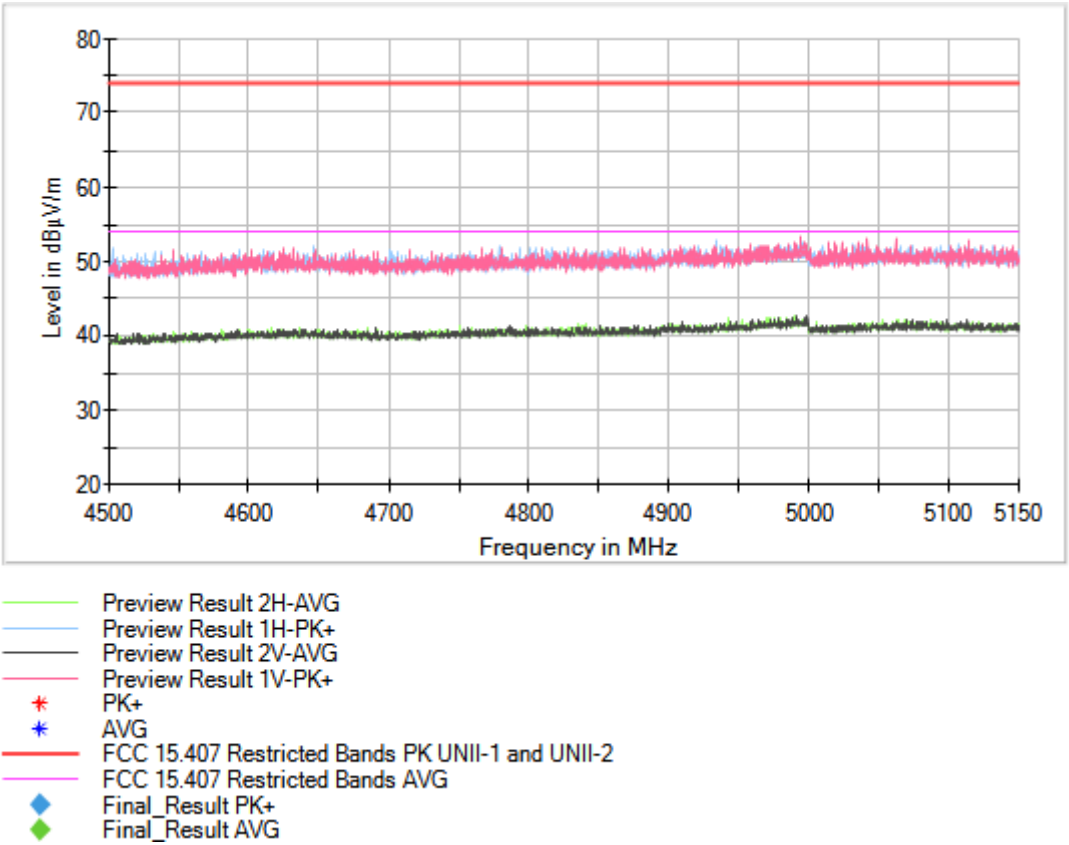
Images:

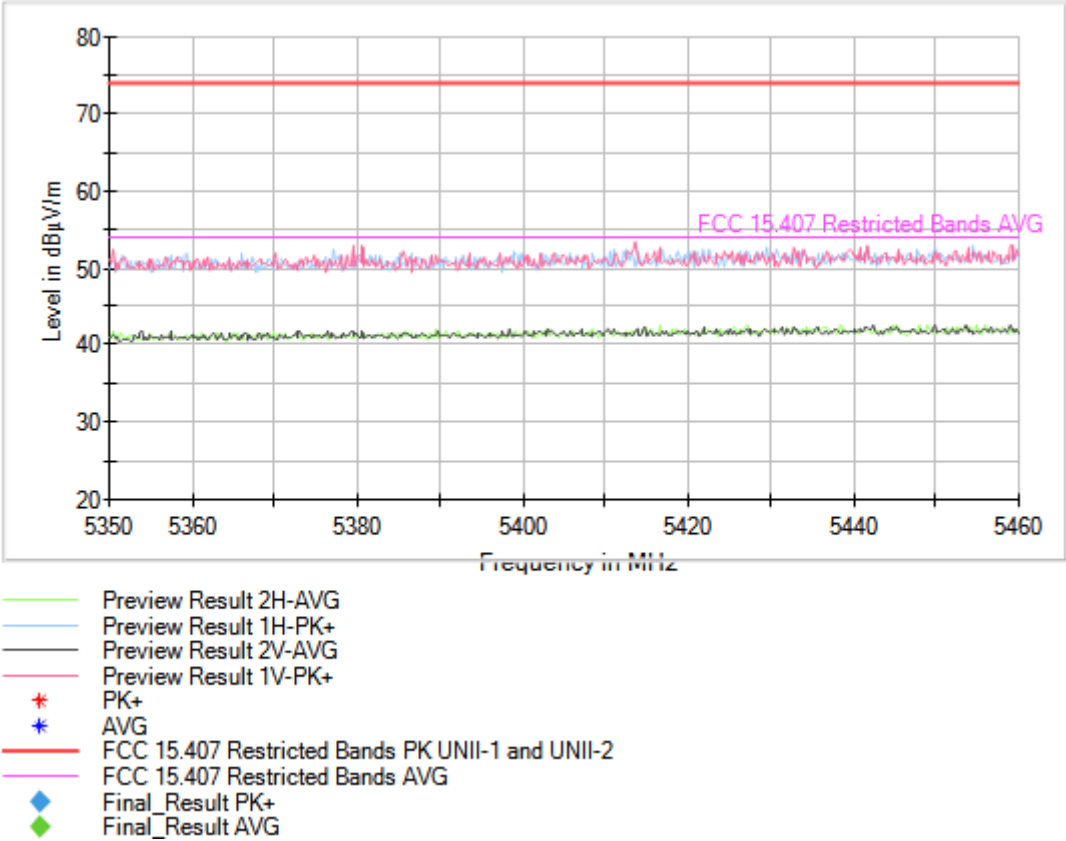




Operation Band MHz = [5150, 5250] Active Port = 1+2
Frequency Range GHz = [1, 7] Frequency MHz = 5210.00000
Modulation = 802.11ax HE80 (OFDMA MCS0) Resource Unit Tone/Index = 26/17
Subcarrier Mode = RU

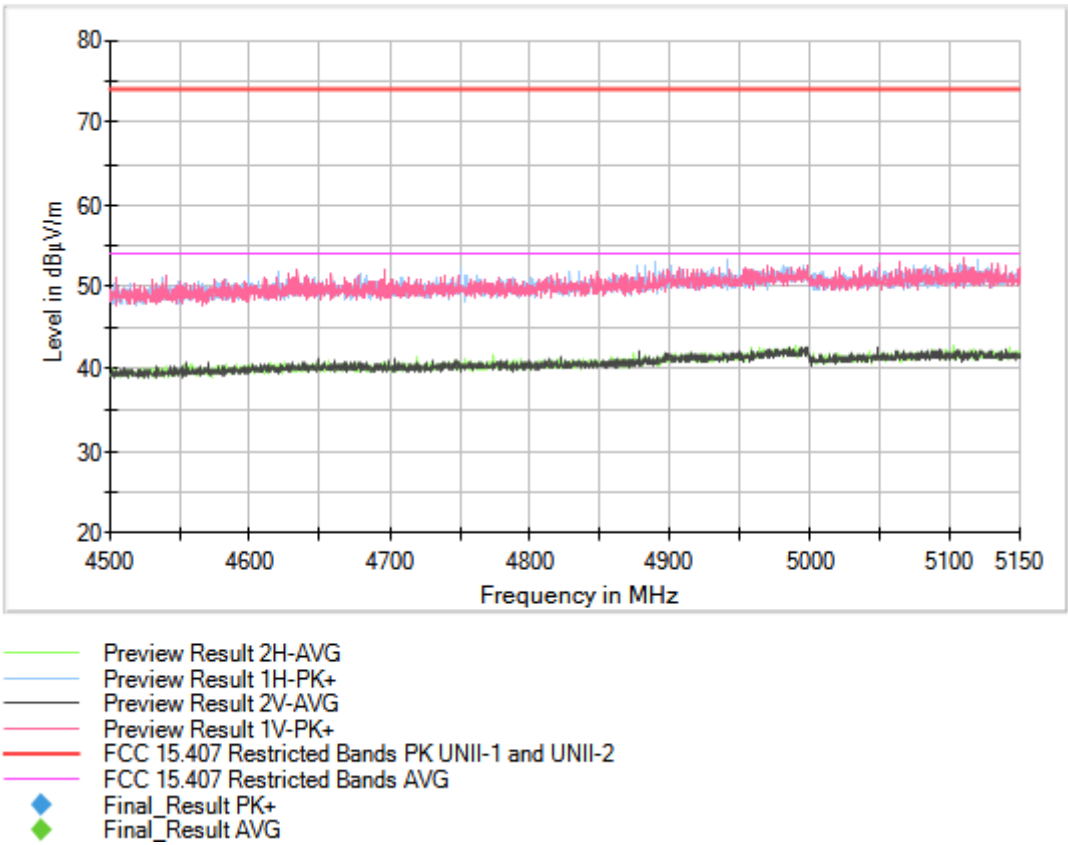
Images:

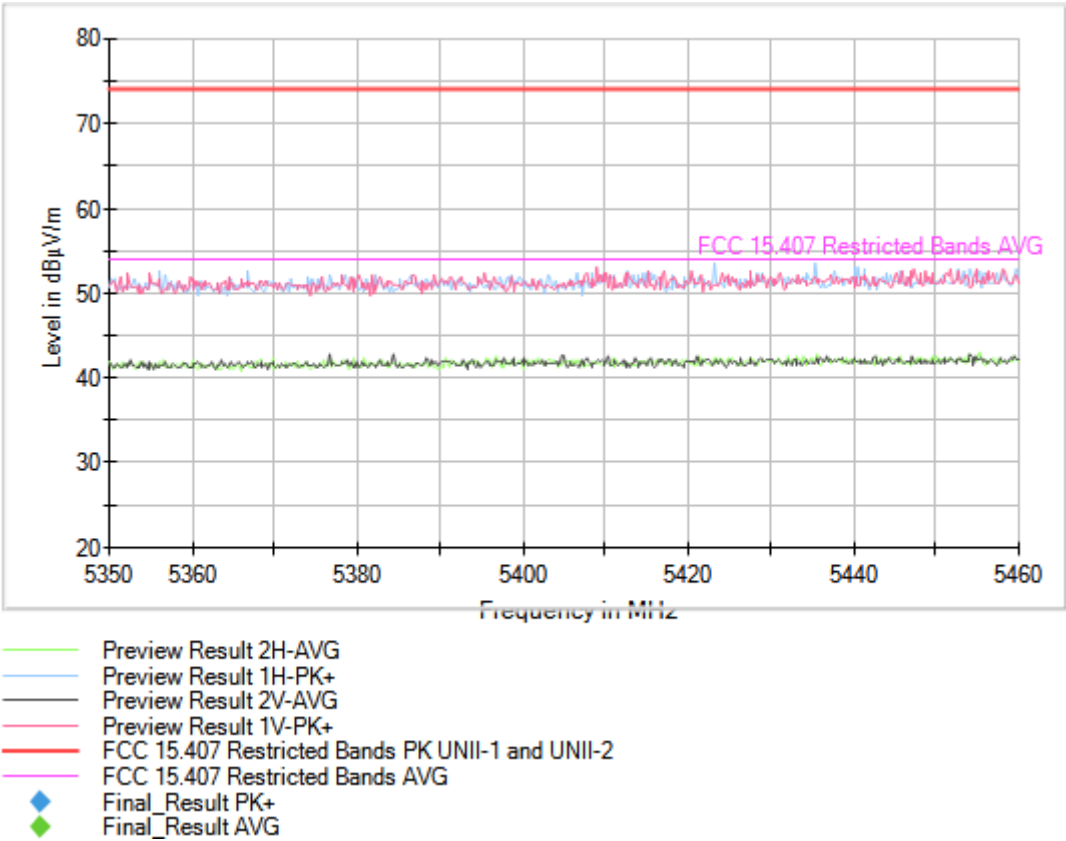




Operation Band MHz = [5150, 5250] Active Port = 1+2
Frequency Range GHz = [1, 7] Frequency MHz = 5210.00000
Modulation = 802.11ax HE80 (OFDMA MCS0) Resource Unit Tone/Index = 26/36
Subcarrier Mode = RU

Images:





Appendix C: Tests results for the U-NII-3 Band 5.725–5.85 GHz

TEST CONDITIONS	469
<i>RSS-247 7.3.4.3 / FCC 15.407 (a) (3) [Avcp] Maximum Conducted output power UNII-3</i>	<i>475</i>
<i>RSS-247 7.3.4.3 / FCC 15.407 (a) (3) [Psd] Transmitter Maximum Power Spectral Density UNII-3</i>	<i>478</i>
<i>RSS-247 7.3.4.2 / FCC 15.407 (e) [6dBw] 6 dB Emission Bandwidth</i>	<i>559</i>
<i>RSS-247 7.3.4.4 / FCC 15.407 (b) (4) (6) [Rse] Transmitter Out of Band Radiated Emissions For transmitters operating solely in the 5.725-5.850 GHz band</i>	<i>617</i>
<i>RSS-247 7.3.4.4 / FCC 15.407 (b) (4) [Bndedge] Transmitter Band Edge Radiated Emissions for UNII-3</i>	<i>740</i>

TEST CONDITIONS

(*): Data provided by the client.

POWER SUPPLY (*):

Vnominal: 12Vdc

Type of Power Supply: External power supply (Vehicle Battery)

ANTENNA (*):

Type of Antenna: External

Antenna Gain:

Port 2: -1.25 dBi

Port 4: -2.42 dBi

Directional Antenna Gain Calculations for CDD MIMO In-Band Measurements (for PSD test):

For 2Tx CDD MIMO modes, in accordance with KDB 662911 D01 v02r01 Section F)2)f)(ii) y F)2)e)ii), directional gain, directional gain was calculated as follows:

$$N_{SS} = 1, N_{ANT} = 2, G_{ANT0} = -1.25, G_{ANT1} = -2.42$$

$$\begin{aligned} \text{Directional Gain} &= 10 \log \left[\frac{\sum_{j=1}^{N_{SS}} \left(\sum_{k=1}^{N_{ANT}} g_{j,k} \right)^2}{N_{ANT}} \right] = 10 \log \left[\frac{\sum_{j=1}^1 \left(\sum_{k=1}^2 g_{j,k} \right)^2}{2} \right] \\ &= 10 \log \left[\frac{(g_{1,1} + g_{1,2})^2}{2} \right] = 10 \log \left[\frac{(10^{\frac{G_1}{20}} + 10^{\frac{G_2}{20}})^2}{2} \right] = 10 \log \left[\frac{(10^{\frac{-1.25}{20}} + 10^{\frac{-2.42}{20}})^2}{2} \right] = 1.2 \text{ dBi} \end{aligned}$$

TEST FREQUENCIES (*):

Technology Tested:	WLAN (IEEE 802.11 a,n,ac,ax) 2x2 / U-NII-3	
	802.11a OFDM 6 Mbit/s SISO	
	802.11 n HT20: MCS0 to MCS23 SISO & MIMO 2x2	
	802.11 n HT40: MCS0 to MCS23 SISO & MIMO 2x2	
	802.11 ac VHT20: MCS0 to MCS9 SISO & MIMO 2x2	
	802.11 ac VHT40: MCS0 to MCS9 SISO & MIMO 2x2	
	802.11 ac VHT80: MCS0 to MCS9 SISO & MIMO 2x2	
	802.11 ax HE20: MCS0 to MCS11 SISO & MIMO 2x2 – SU/RU	
	802.11 ax HE40: MCS0 to MCS11 SISO & MIMO 2x2– SU/RU	
	802.11 ax HE80: MCS0 to MCS11 SISO & MIMO 2x2– SU/RU	
Setting of cores / ports:	1+2	
Beamforming:	No.	
	5725 MHz to 5850 MHz	
Operating Channel Bandwidth:	20 MHz	
Transmission Channels:	Channel	Channel Frequency (MHz)
	Low (149)	5745
	Middle (157)	5785
	High (165)	5825
Operating Channel Bandwidth:	40 MHz	
Transmission Channels:	Channel	Channel Frequency (MHz)
	Low (151)	5755
	High (159)	5795
Operating Channel Bandwidth:	80 MHz	
Transmission Channels:	Single (155)	5775

The test set-up was made in accordance to the general provisions of FCC Unlicensed National Information Infrastructure (U-NII) Devices 789033 D02 General U-NII Test Procedures New Rules v02r01 dated Dec 14, 2017.

The EUT was tested in the following operating mode:

- Continuously transmitting with a modulated carrier at maximum power in all required channels using the supported data rates/modulations types.

The field strength at the band edges was evaluated for each mode on the lowest and highest channels at the rated power for the channel under test.

For all modes, the EUT was configured in test mode using a software application. The application was used to enable a continuous transmission and to select the test channels as required. The client supplied instructions to configure the EUT. The customer supplied a document containing the setup instructions.

The worst cases for testing were identified for output power and spurious levels at the band edges which were selected based on preliminary testing that correspond to next data rates:

- 802.11a OFDM 6 Mbit/s
- 802.11 n HT20: MCS0
- 802.11 n HT40: MCS0
- 802.11 ac VHT20: MCS0
- 802.11 ac VHT40: MCS0
- 802.11 ac VHT80: MCS0
- 802.11 ax HE20: MCS0
- 802.11 ax HE40: MCS0
- 802.11 ax HE80: MCS0

CONDUCTED MEASUREMENTS:

The equipment under test was set up in a shielded room and it is connected to the TS8997 using a low loss RF cable. The reading of the spectrum analyser is corrected taking into account the cable loss.



RADIATED MEASUREMENTS:

All radiated tests were performed in a semi-anechoic chamber. The measurement antenna (Bilog antenna for the range between 30 MHz to 1000 MHz and 1 GHz-17 GHz Double ridge horn antenna) is situated at a distance of 3 m and at a distance of 1.5 m for the frequency range 17 GHz-26 GHz (17 GHz-40 GHz horn antenna).

For radiated emissions in the range 17 GHz-26 GHz that is performed at a distance closer than the specified distance, an inverse proportionality factor of 20 dB per decade is used to normalize the measured data for determining compliance.

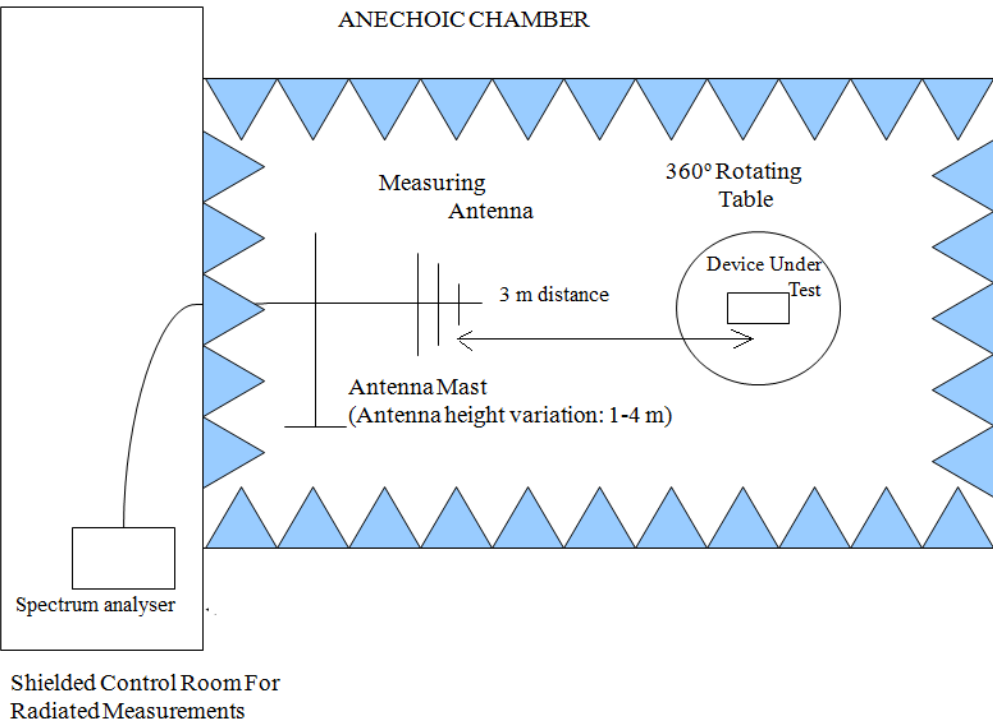
The equipment under test was set up on a non-conductive platform above the ground plane and the situation and orientation was varied to find the maximum radiated emission. It was also rotated 360° and the antenna height (Bilog antenna and Double ridge horn antenna) was varied from 1 to 4 meters to find the maximum radiated emission.

Measurements were made in both horizontal and vertical planes of polarization.

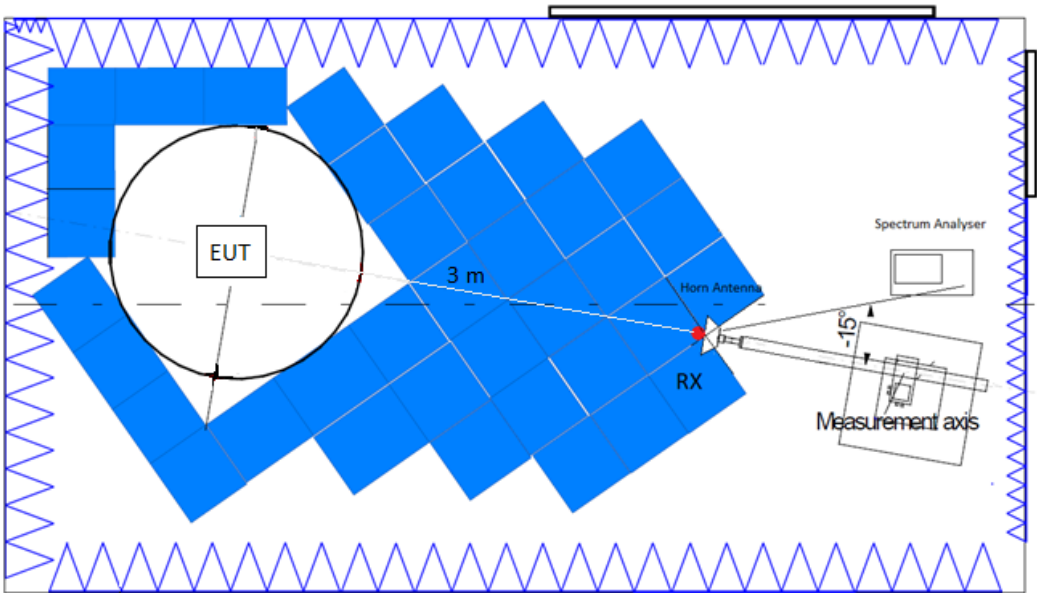
The final measured value, for the given emission, in the tables below incorporates the calibrated antenna factor and cable loss.

A resolution bandwidth/video bandwidth of 100 kHz / 300 kHz was used for frequencies below 1 GHz and 1 MHz / 3 MHz for frequencies above 1 GHz.

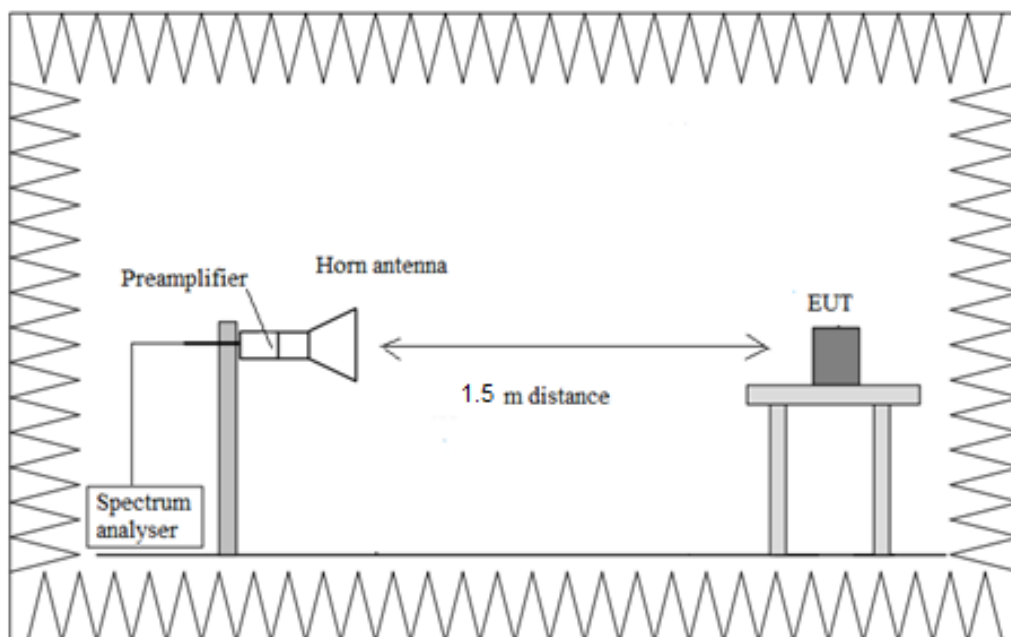
Radiated measurements setup from 30 MHz to 1 GHz:



Radiated measurements setup from 1 GHz to 17 GHz:



Radiated measurements setup $f > 17$ GHz:



RSS-247 7.3.4.3 / FCC 15.407 (a) (3) [Avcp] Maximum Conducted output power UNII-3

Limits

* **FCC 15.407:** For the band 5.725-5.850 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

RSS-247: The maximum conducted output power shall not exceed 1 W.

Modulation: 802.11n HT20 (OFDM MCS0)

Results

Operation Band (MHz)	Port	Freq (MHz)	TPC	Max EIRP (dBm)	Avg Power (dBm)
[5725, 5850]	4	5745.00000	No	12.50	14.92
		5785.00000		12.62	15.04
		5825.00000		12.65	15.07
	1+2	5745.00000		12.34	11.14
		5785.00000		12.69	11.49
		5825.00000		12.78	11.58

Modulation: 802.11n HT40 (OFDM MCS0 13.5 Mbit/s)

Results

Operation Band (MHz)	Port	Freq (MHz)	TPC	Max EIRP (dBm)	Avg Power (dBm)
[5725, 5850]	4	5755.00000	No	13.35	15.77
[5725, 5850]	4	5795.00000	No	12.34	14.76
[5725, 5850]	1+2	5755.00000	No	13.92	12.72
[5725, 5850]	1+2	5795.00000	No	12.86	11.66

Modulation: 802.11a (OFDM 6 Mbit/s)

Results

Operation Band (MHz)	Port	Freq (MHz)	TPC	Max EIRP (dBm)	Avg Power (dBm)
[5725, 5850]	4	5745.00000	No	14.36	16.78
		5785.00000		14.46	16.88
		5825.00000		13.76	16.18

Modulation: 802.11ac VHT20 (OFDM MCS0)

Results

Operation Band (MHz)	Port	Freq (MHz)	TPC	Max EIRP (dBm)	Avg Power (dBm)
[5725, 5850]	4	5745.00000	No	11.96	14.38
		5785.00000		12.08	14.50
		5825.00000		11.99	14.41
	1+2	5745.00000		10.96	9.77
		5785.00000		11.36	10.16
		5825.00000		11.42	10.22

Modulation: 802.11ac VHT40 (OFDM MCS0)

Results

Operation Band (MHz)	Port	Freq (MHz)	TPC	Max EIRP (dBm)	Avg Power (dBm)
[5725, 5850]	4	5755.00000	No	13.35	15.77
[5725, 5850]	4	5795.00000	No	12.34	14.76
[5725, 5850]	1+2	5755.00000	No	9.75	8.55
[5725, 5850]	1+2	5795.00000	No	9.90	8.70

Modulation: 802.11ac VHT80 (OFDM MCS0)

Results

Operation Band (MHz)	Port	Freq (MHz)	TPC	Max EIRP (dBm)	Avg Power (dBm)
[5725, 5850]	4	5775.00000	No	5.93	8.35
[5725, 5850]	1+2	5775.00000	No	7.25	6.05

Modulation: 802.11ax HE20 (OFDMA MCS0)

Results

Operation Band (MHz)	Port	Freq (MHz)	TPC	Subcarrier Mode	Max EIRP (dBm)	Avg Power (dBm)
[5725, 5850]	4	5745.00000	No	SU	10.58	13.00
[5725, 5850]	4	5745.00000	No	RU	9.81	12.23
[5725, 5850]	4	5785.00000	No	SU	10.53	12.95
[5725, 5850]	4	5785.00000	No	RU	10.10	12.52
[5725, 5850]	4	5825.00000	No	SU	10.68	13.10
[5725, 5850]	4	5825.00000	No	RU	9.89	12.31
[5725, 5850]	1+2	5745.00000	No	SU	11.35	10.14
[5725, 5850]	1+2	5745.00000	No	RU	12.58	11.38
[5725, 5850]	1+2	5785.00000	No	SU	12.00	10.80
[5725, 5850]	1+2	5785.00000	No	RU	12.49	11.29
[5725, 5850]	1+2	5825.00000	No	SU	11.95	10.75
[5725, 5850]	1+2	5825.00000	No	RU	12.79	11.59

Modulation: 802.11ax HE40 (OFDMA MCS0)

Results

Operation Band (MHz)	Port	Freq (MHz)	TPC	Subcarrier Mode	Max EIRP (dBm)	Avg Power (dBm)
[5725, 5850]	4	5755.00000	No	SU	8.12	10.54
[5725, 5850]	4	5755.00000	No	RU	7.39	9.81
[5725, 5850]	4	5795.00000	No	SU	7.96	10.38
[5725, 5850]	4	5795.00000	No	RU	7.09	9.51
[5725, 5850]	1+2	5755.00000	No	SU	11.05	9.85
[5725, 5850]	1+2	5755.00000	No	RU	10.01	8.81
[5725, 5850]	1+2	5795.00000	No	SU	11.03	9.83
[5725, 5850]	1+2	5795.00000	No	RU	9.21	8.01

Modulation: 802.11ax HE80 (OFDMA MCS0)

Results

Operation Band (MHz)	Port	Freq (MHz)	TPC	Subcarrier Mode	Max EIRP (dBm)	Avg Power (dBm)
[5725, 5850]	4	5775.00000	No	SU	4.86	7.28
[5725, 5850]	4	5775.00000	No	RU	4.86	7.28
[5725, 5850]	1+2	5775.00000	No	SU	7.96	6.76
[5725, 5850]	1+2	5775.00000	No	RU	7.47	6.27

Verdict

Pass

RSS-247 7.3.4.3 / FCC 15.407 (a) (3) [Psd] Transmitter Maximum Power Spectral Density UNII-3

Limits

* FCC 15.407: For the band 5.725-5.850 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

Antenna Gain for MIMO PSD:

$$\begin{aligned} \text{Directional Gain} &= 10 \log \left[\frac{\sum_{j=1}^{N_{SS}} (\sum_{k=1}^{N_{ANT}} g_{j,k})^2}{N_{ANT}} \right] = 10 \log \left[\frac{\sum_{j=1}^1 (\sum_{k=1}^2 g_{j,k})^2}{2} \right] \\ &= 10 \log \left[\frac{(g_{1,1} + g_{1,2})^2}{2} \right] = 10 \log \left[\frac{(10^{\frac{G_1}{20}} + 10^{\frac{G_2}{20}})^2}{2} \right] = 10 \log \left[\frac{(10^{\frac{5.1}{20}} + 10^{\frac{5.1}{20}})^2}{2} \right] = 8.11 \text{ dBi} \end{aligned}$$

Modulation: 802.11n HT20 (OFDM MCS0)

Results

Operation Band (MHz)	Port	Freq (MHz)	TPC	Freq (MHz)	PSD (dBm)
[5725, 5850]	4	5745.00000	No	5747.574257	-3.06
		5785.00000		5783.811881	-2.98
		5825.00000		5827.376238	-2.41
	1+2	5745.00000		5752.524752	-8.21
		5785.00000		5786.188119	-7.43
		5825.00000		5823.613861	-7.36

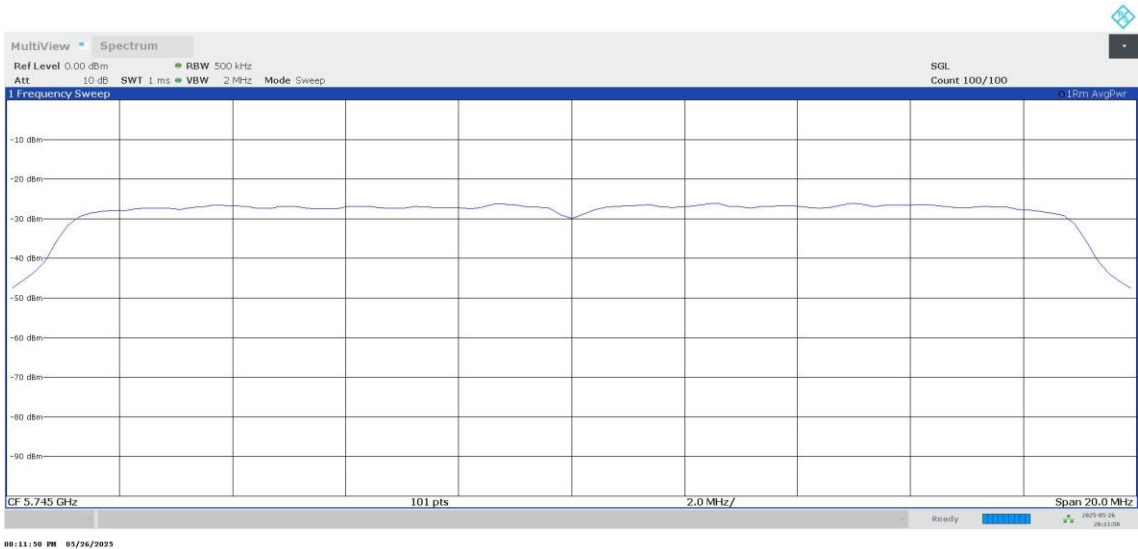
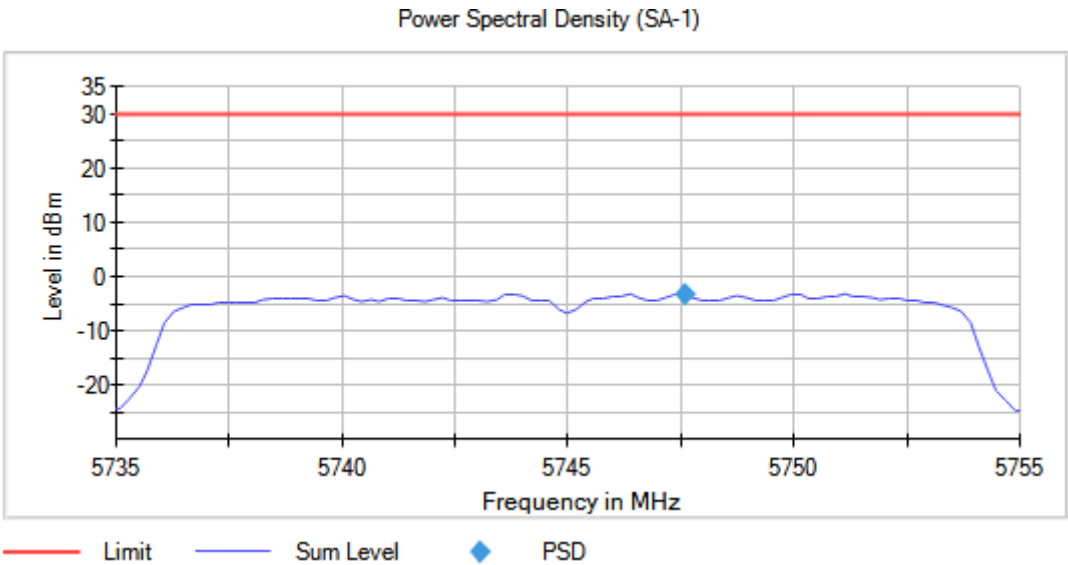
Verdict

Pass

Attachments

Operation Band MHz = [5725, 5850] Active Port = 4
Frequency MHz = 5745.00000 Modulation = 802.11n HT20 (OFDM MCS0)
TPC = No

Images:



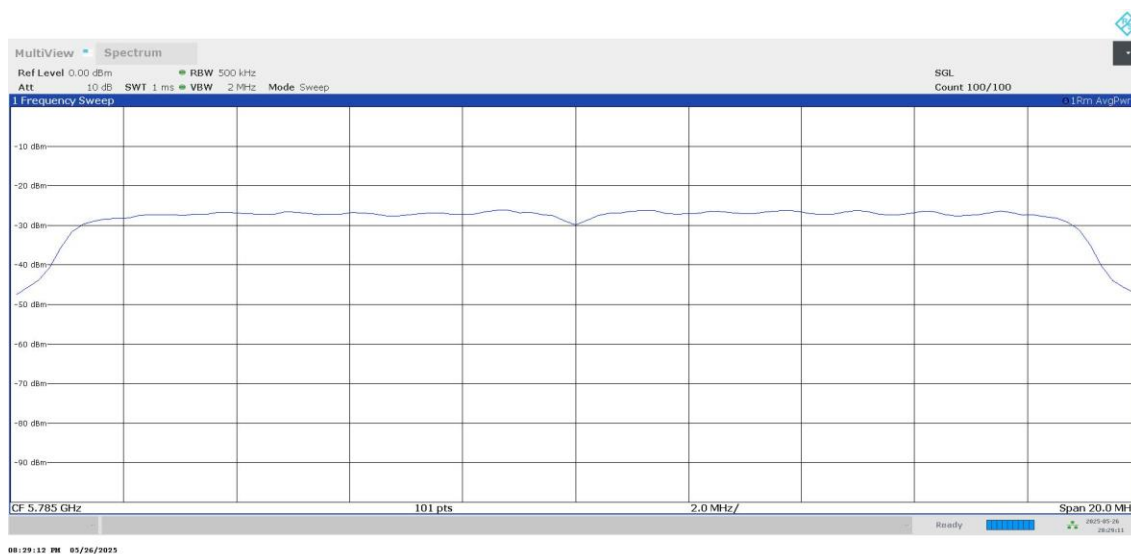
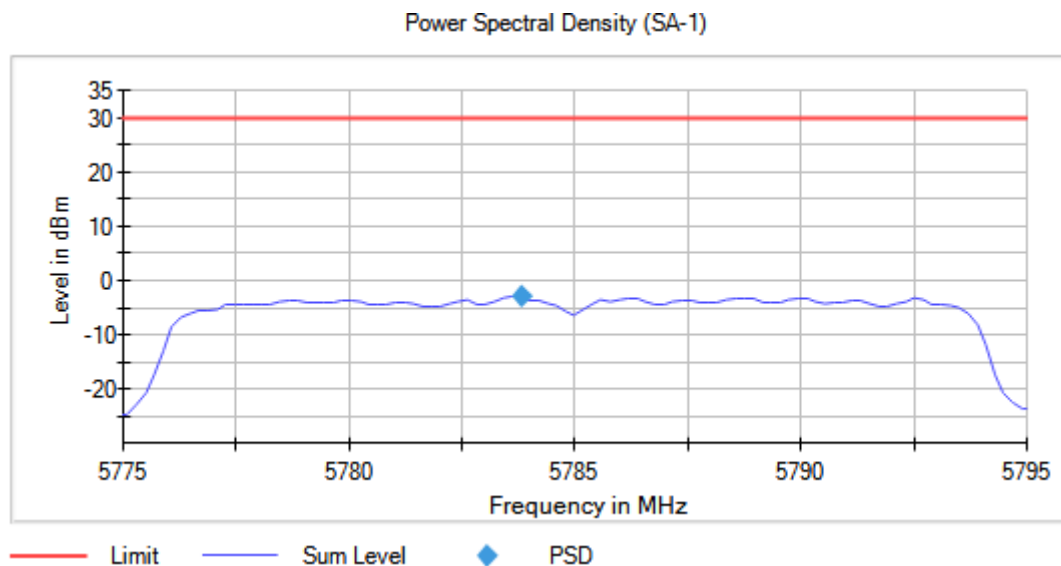
Operation Band MHz = [5725, 5850] Active Port = 4

Frequency MHz = 5785.00000

Modulation = 802.11n HT20 (OFDM MCS0)

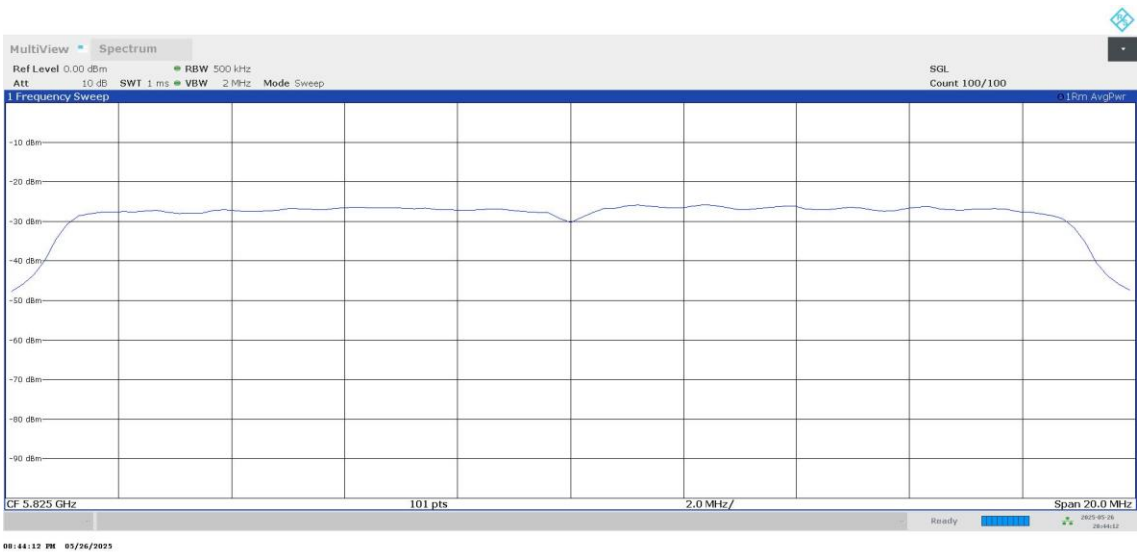
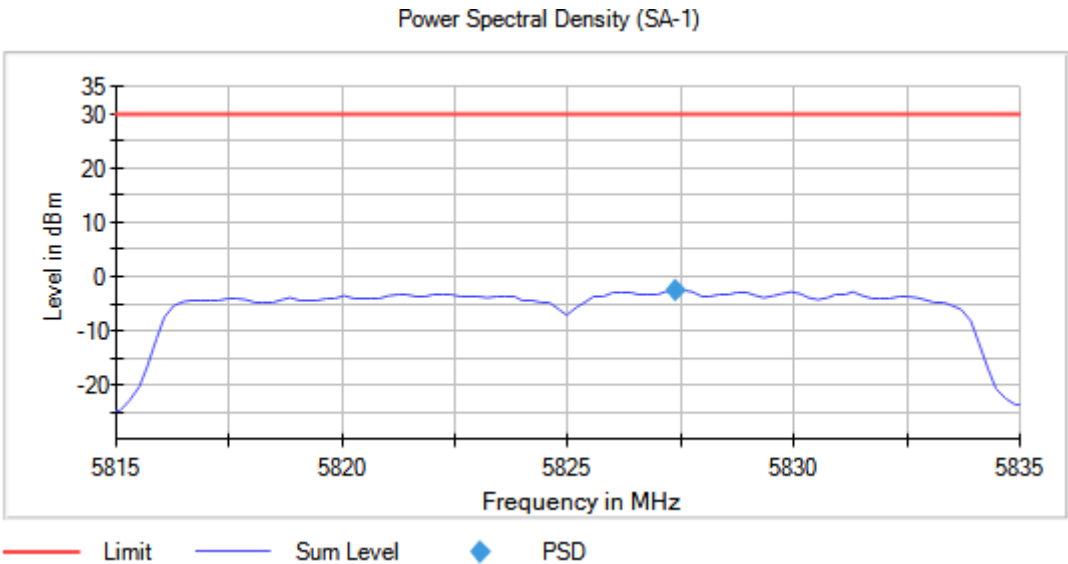
TPC = No

Images:



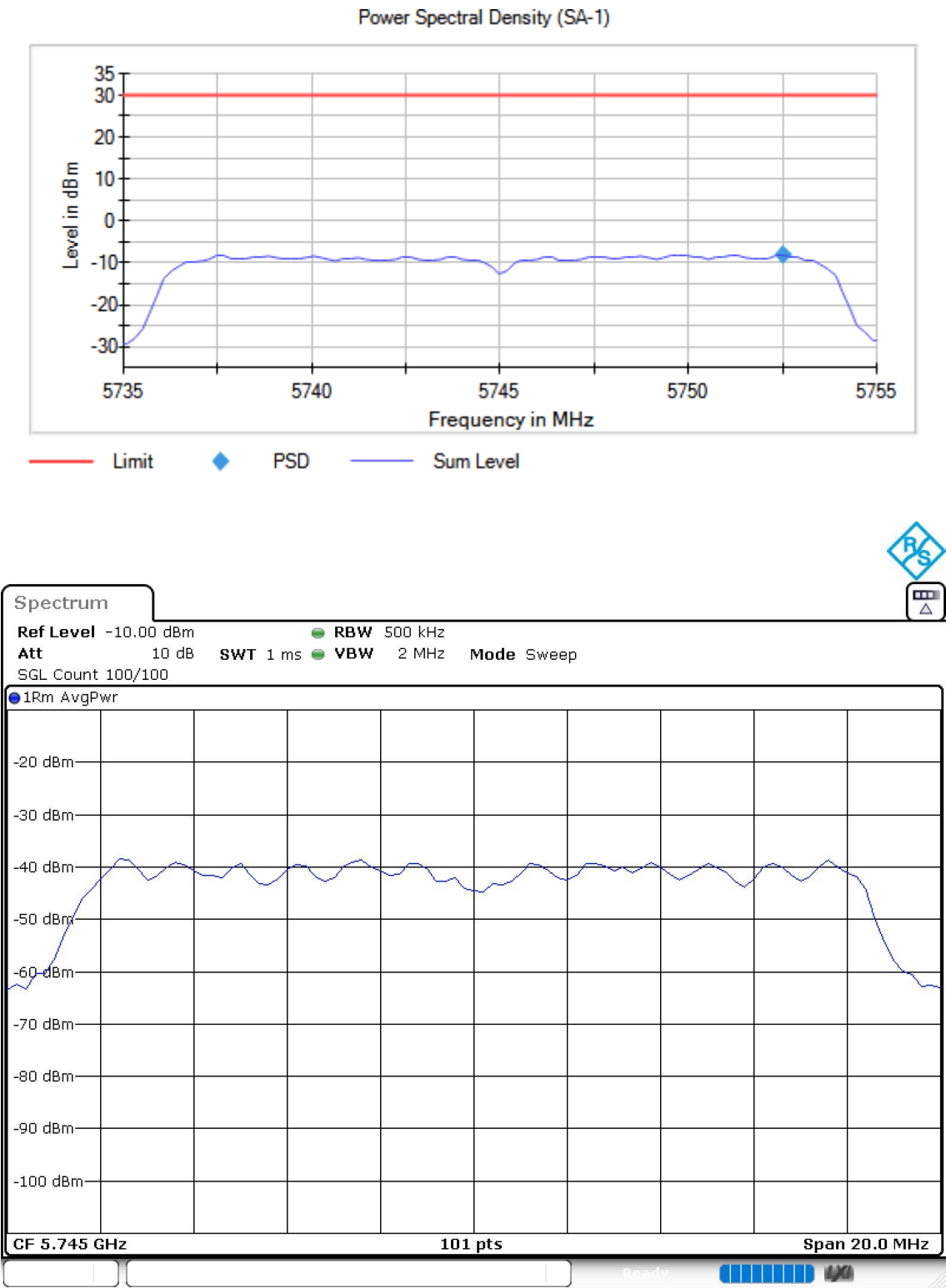
Operation Band MHz = [5725, 5850] Active Port = 4
Frequency MHz = 5825.00000 Modulation = 802.11n HT20 (OFDM MCS0)
TPC = No

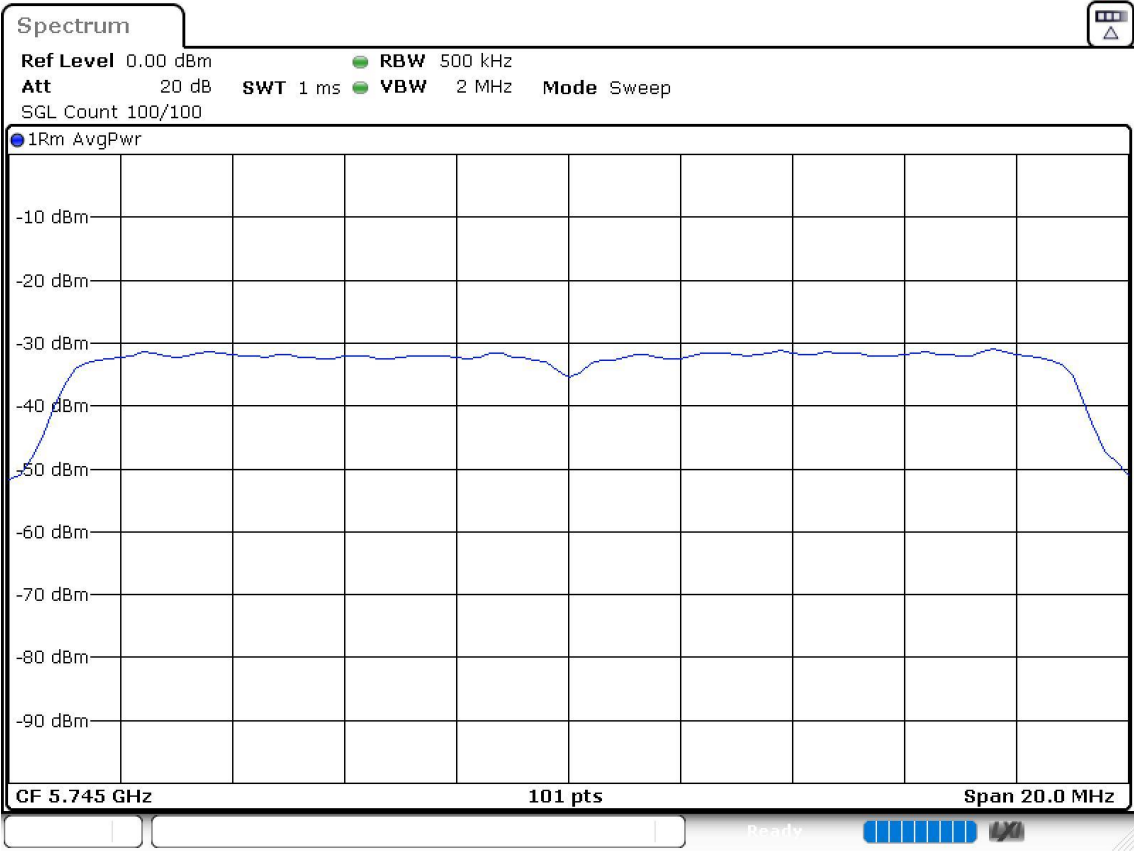
Images:



Operation Band MHz = [5725, 5850] Active Port = 1+2
Frequency MHz = 5745.00000 Modulation = 802.11n HT20 (OFDM MCS0)
TPC = No

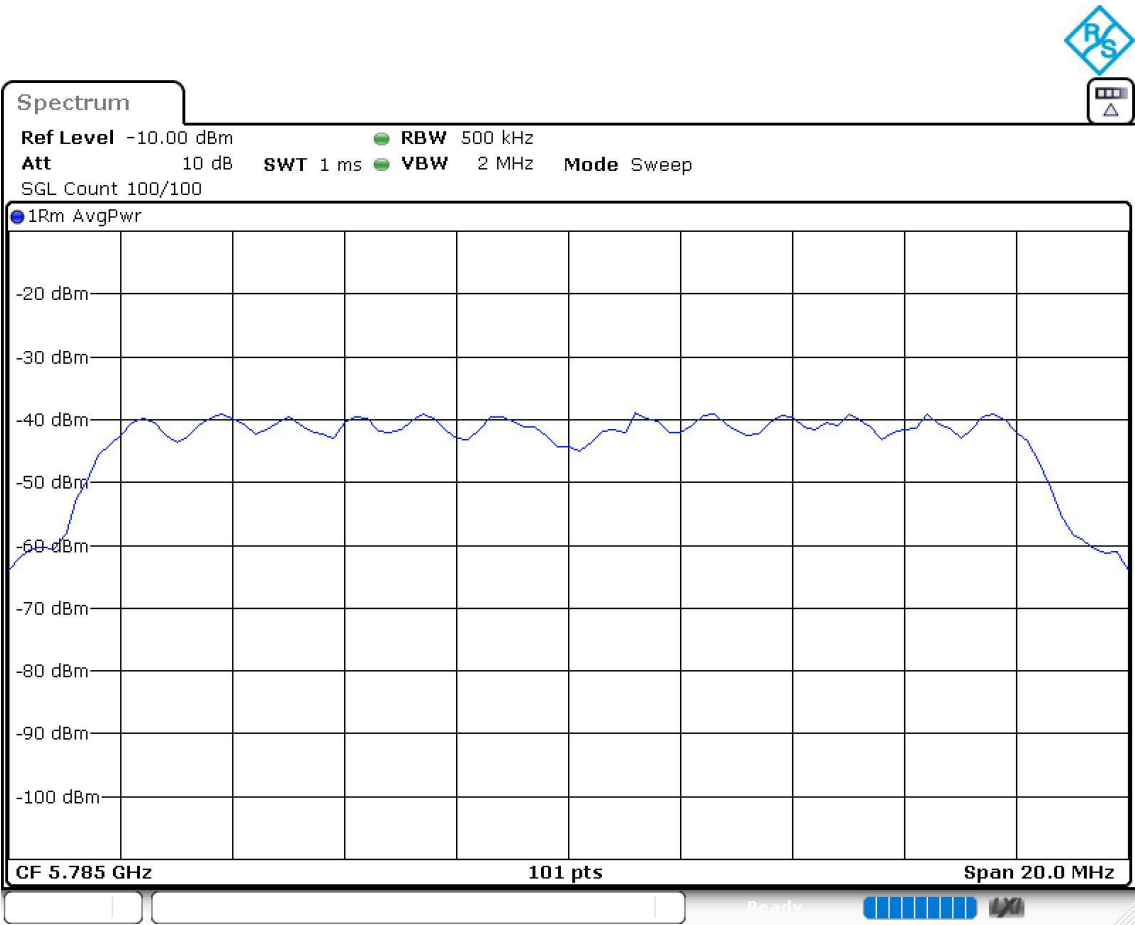
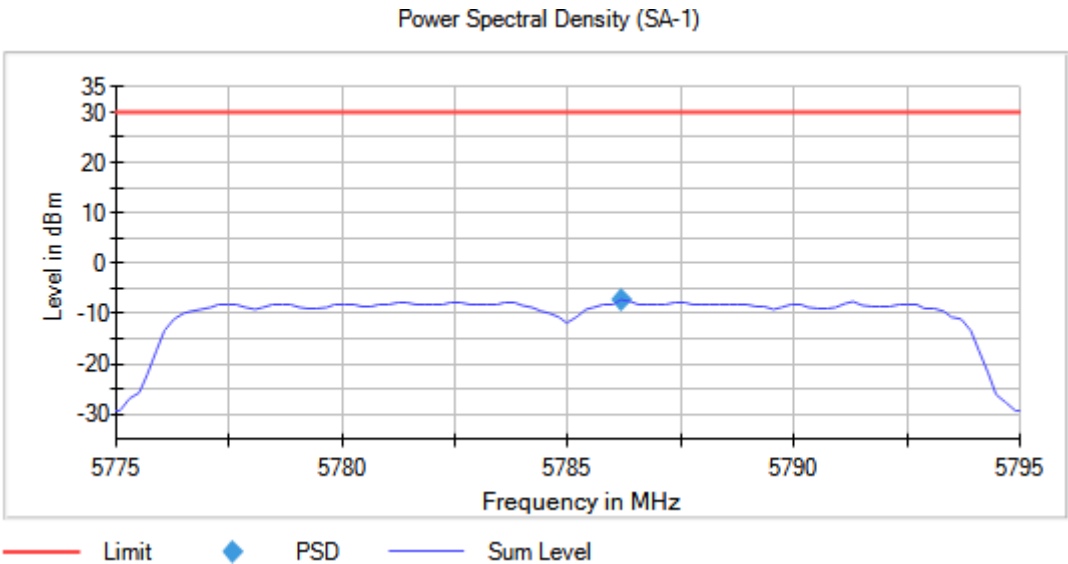
Images:

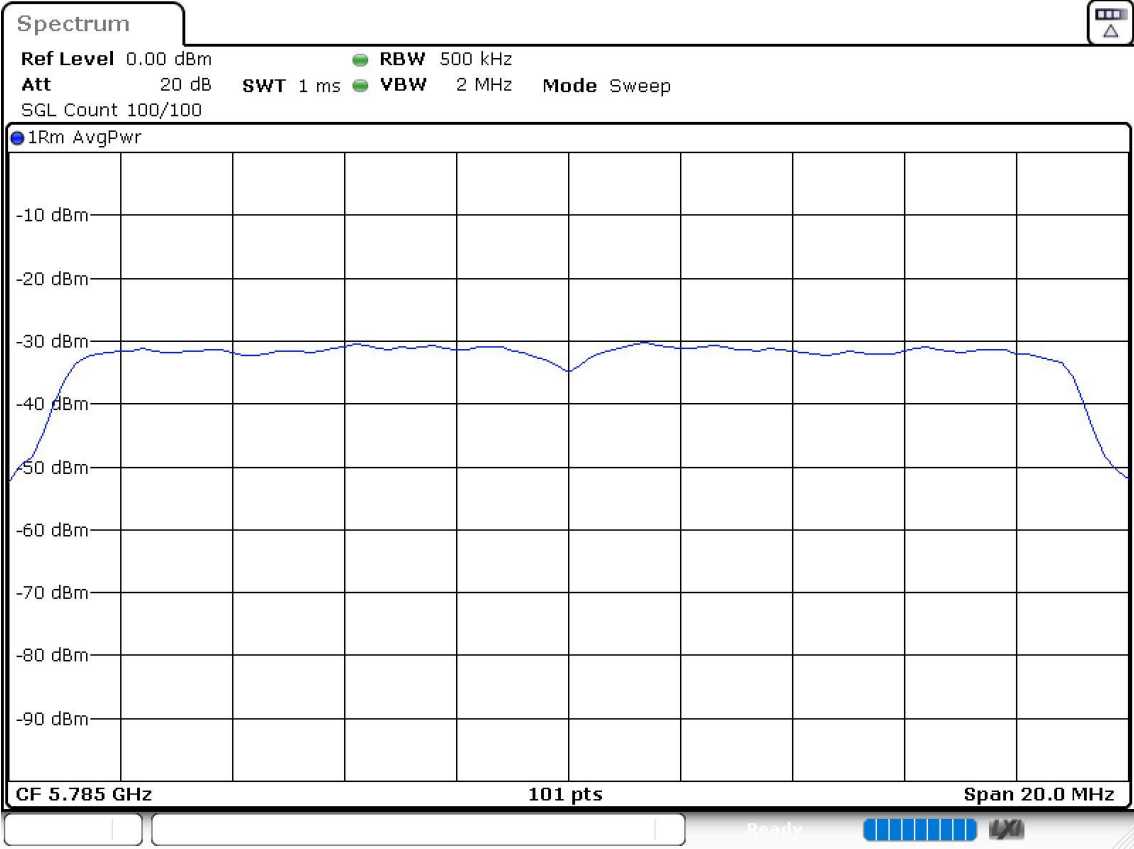




Operation Band MHz = [5725, 5850] Active Port = 1+2
Frequency MHz = 5785.00000 Modulation = 802.11n HT20 (OFDM MCS0)
TPC = No

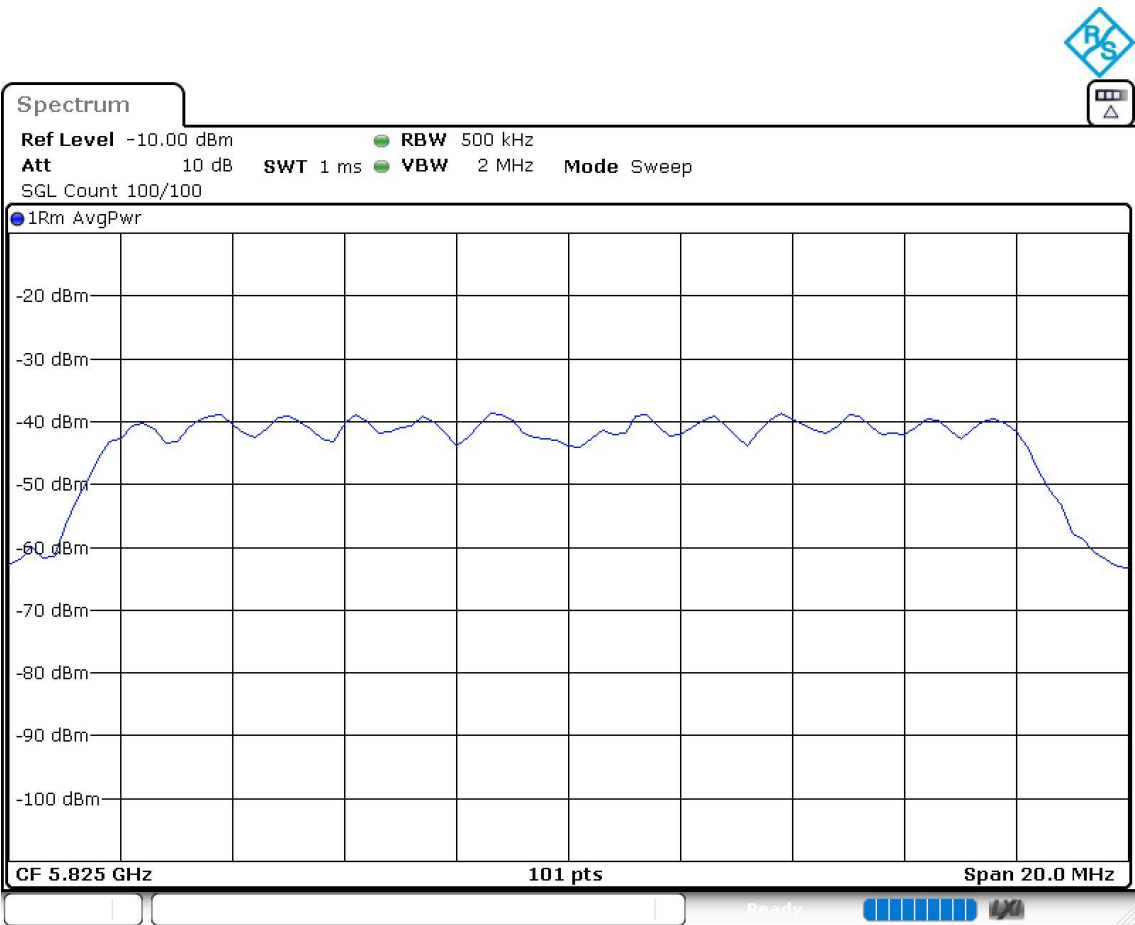
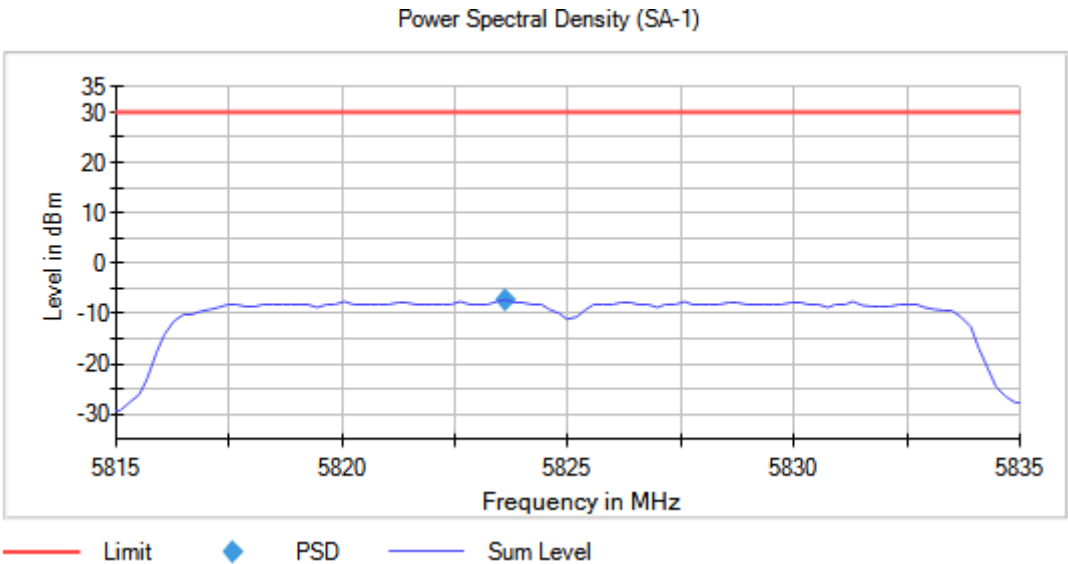
Images:

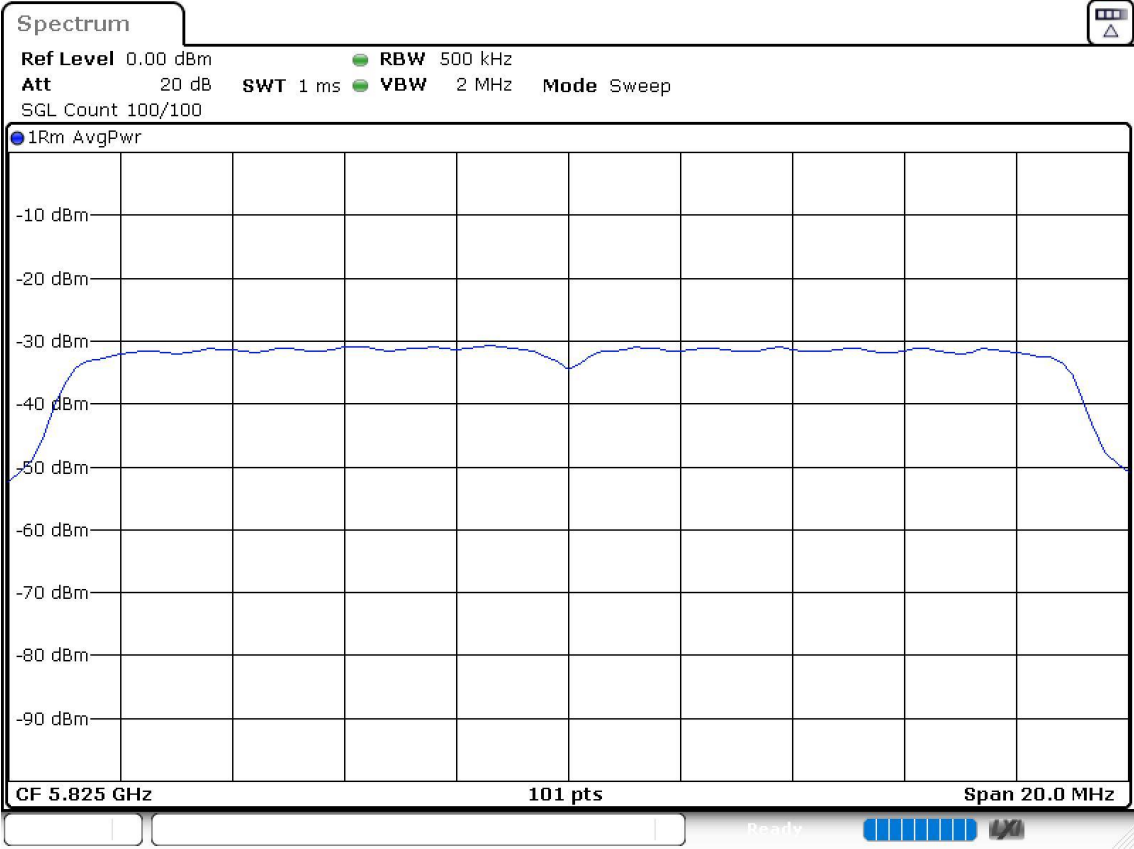




Operation Band MHz = [5725, 5850] Active Port = 1+2
Frequency MHz = 5825.00000 Modulation = 802.11n HT20 (OFDM MCS0)
TPC = No

Images:





Modulation: 802.11n HT40 (OFDM MCS0 13.5 Mbit/s)

Results

Operation Band (MHz)	Port	Freq (MHz)	TPC	Freq (MHz)	PSD (dBm)
[5725, 5850]	4	5755.00000	No	5748.875000	-7.07
[5725, 5850]	4	5795.00000	No	5799.875000	-7.99
[5725, 5850]	1+2	5755.00000	No	5761.375000	-9.88
[5725, 5850]	1+2	5795.00000	No	5798.875000	-10.53

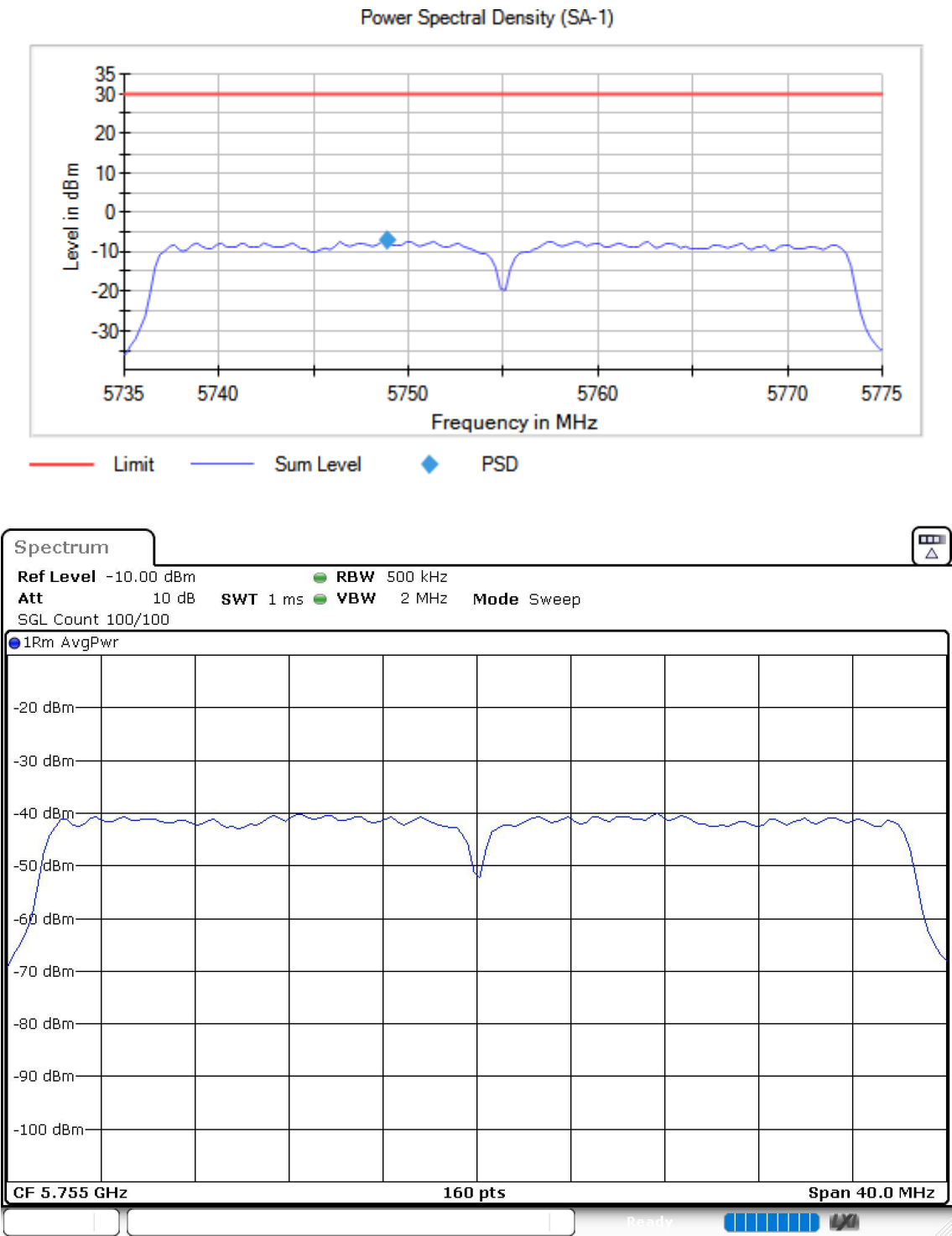
Verdict

Pass

Attachments

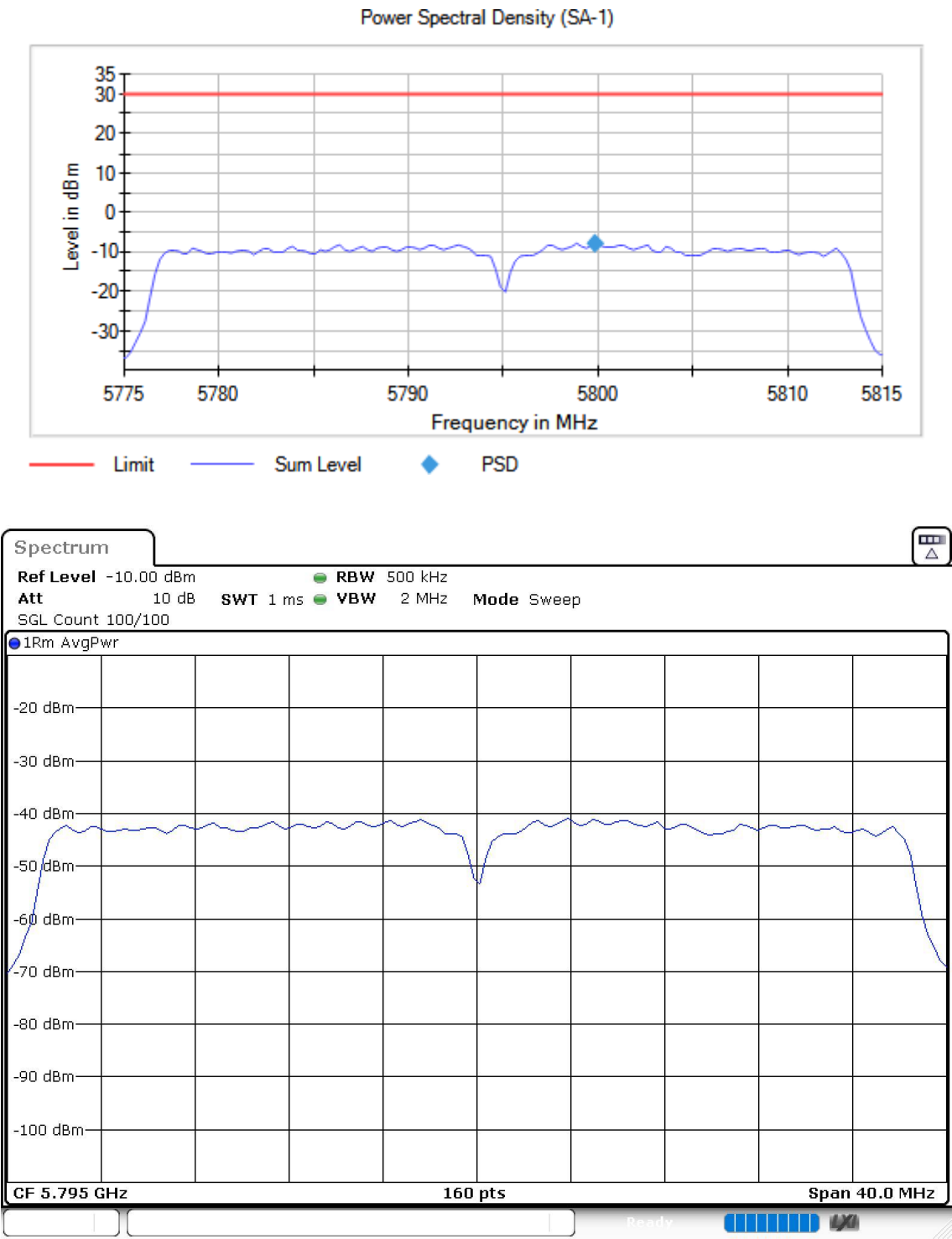
Operation Band MHz = [5725, 5850] Active Port = 4
Frequency MHz = 5755.00000 Modulation = 802.11n HT40 (OFDM MCS0 13.5 Mbit/s)
TPC = No Resource Unit Tone/Index =

Images:



Operation Band MHz = [5725, 5850] Active Port = 4
Frequency MHz = 5795.00000 Modulation = 802.11n HT40 (OFDM MCS0 13.5 Mbit/s)
TPC = No Resource Unit Tone/Index =

Images:



Operation Band MHz = [5725, 5850] Active Port = 1+2
Frequency MHz = 5755.00000 Modulation = 802.11n HT40 (OFDM MCS0 13.5 Mbit/s)
TPC = No Resource Unit Tone/Index = -

Images:

