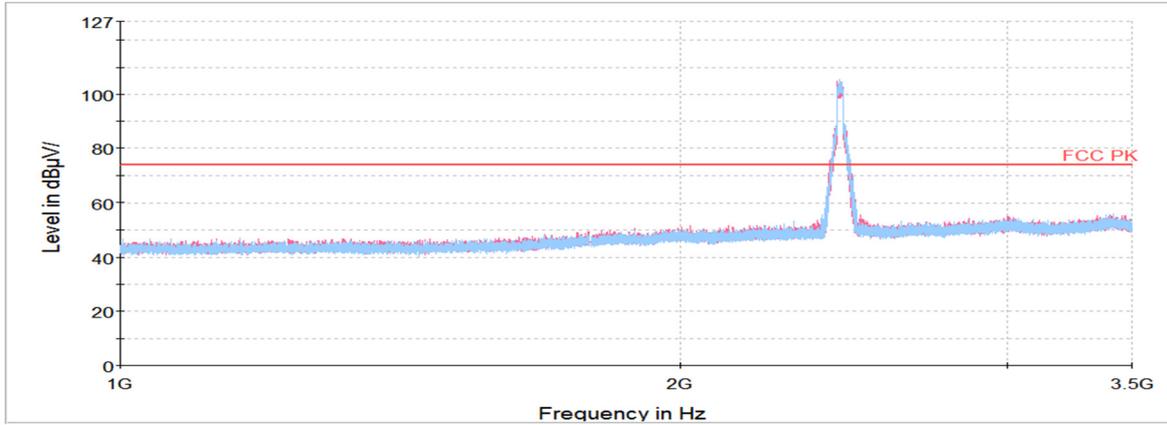
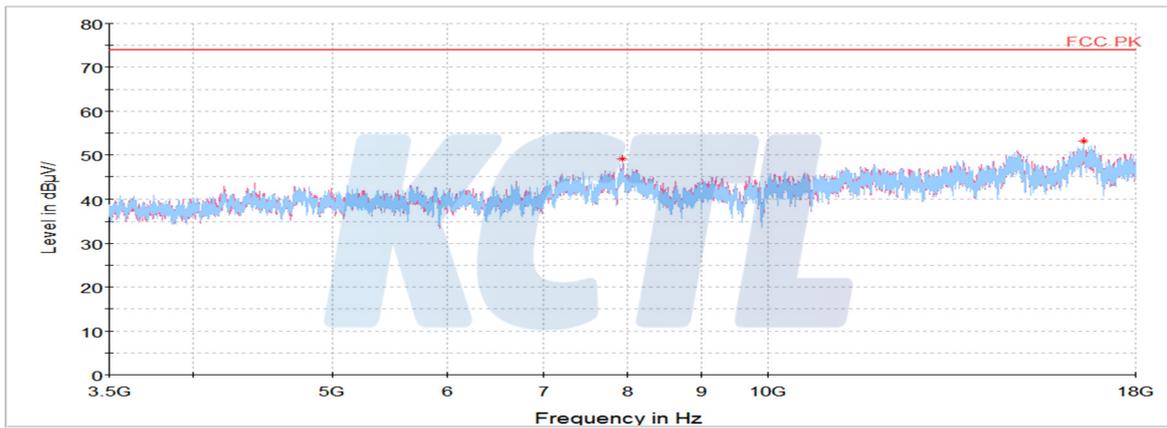


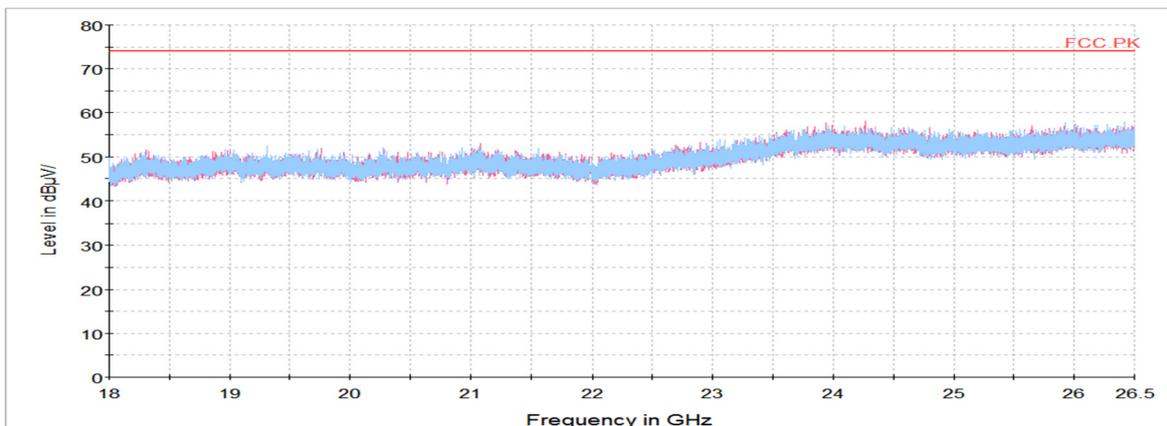
Horizontal/Vertical for 1 GHz ~ 3.5 GHz



Horizontal/Vertical for 3.5 GHz ~ 18 GHz



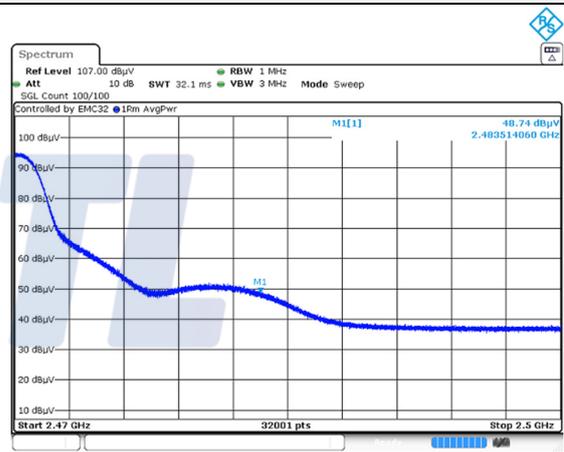
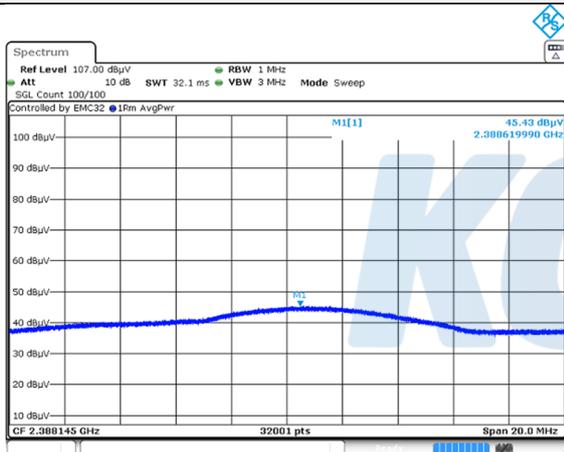
Horizontal/Vertical for 18 GHz ~ 26.5 GHz



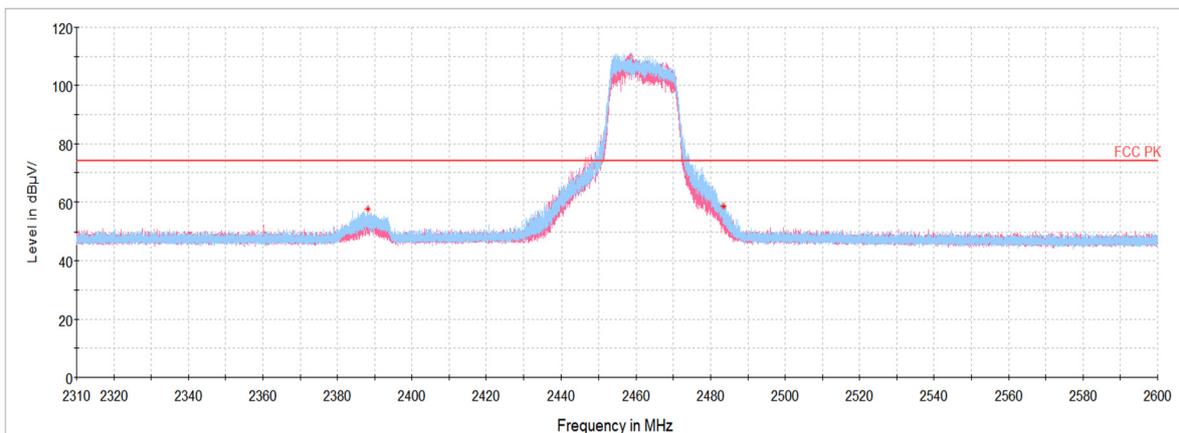
802.11n HT20_2 462 MHz

Frequency	Pol.	Reading	Ant. Factor	Amp. + Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
2 388.62 ¹⁾	H	54.64	31.88	-29.05	-	57.47	74.00	16.53
2 483.51 ¹⁾	H	55.59	32.07	-29.21	-	58.45	74.00	15.55
4 948.64 ¹⁾	H	62.43	33.98	-54.87	-	41.54	74.00	32.46
16 563.59	V	56.51	41.56	-45.72	-	52.35	74.00	21.65
Average Data								
2 388.62 ¹⁾	H	45.43	31.88	-29.05	-	48.26	54.00	5.74
2 483.51 ¹⁾	H	48.74	32.07	-29.21	-	51.60	54.00	2.40

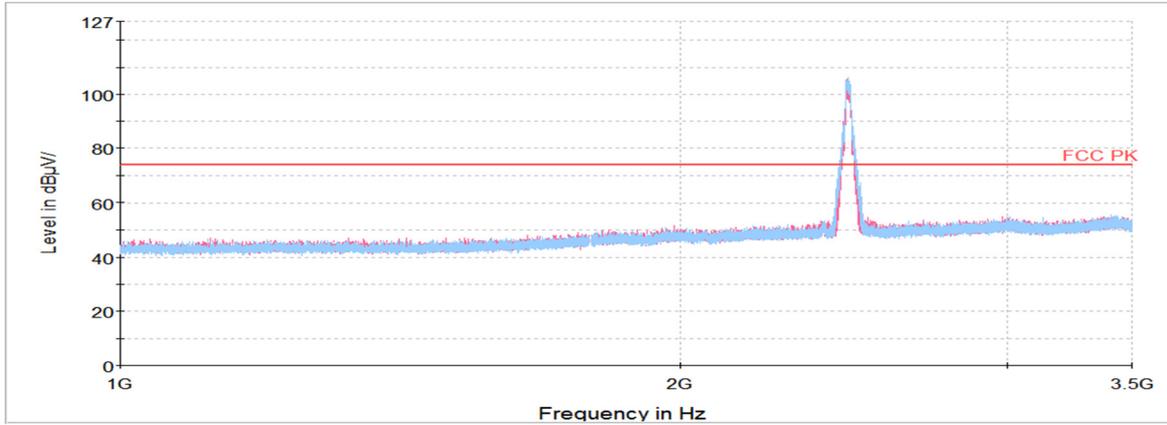
Average data



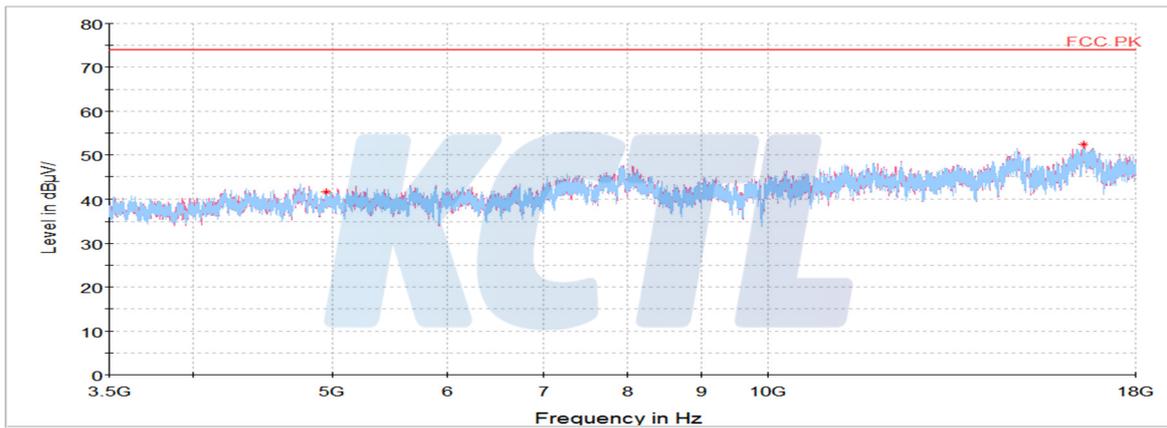
Horizontal/Vertical for Band-edge



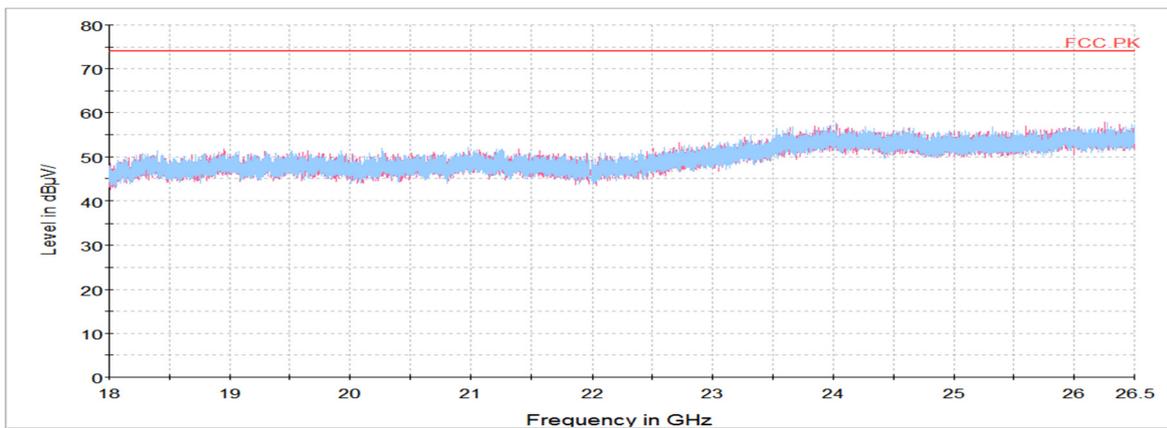
Horizontal/Vertical for 1 GHz ~ 3.5 GHz



Horizontal/Vertical for 3.5 GHz ~ 18 GHz

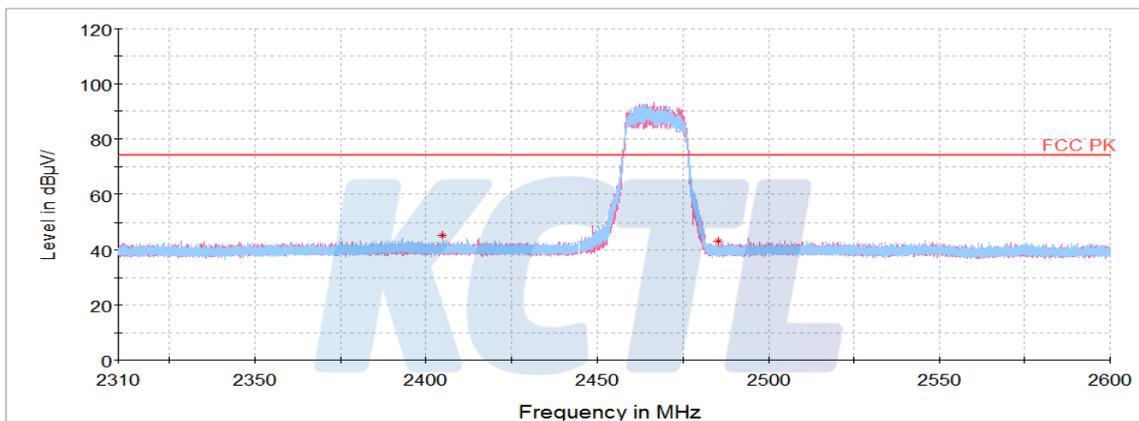


Horizontal/Vertical for 18 GHz ~ 26.5 GHz

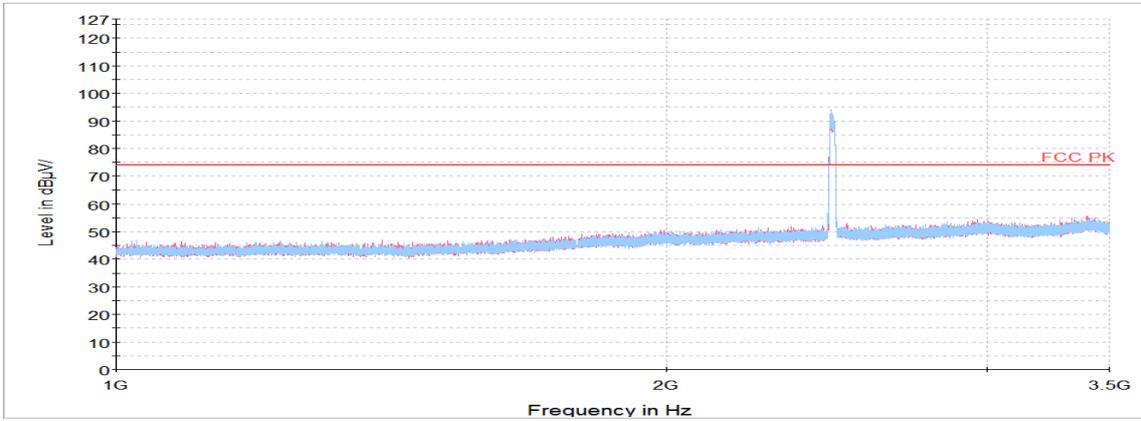


802.11n HT20_2 467 MHz

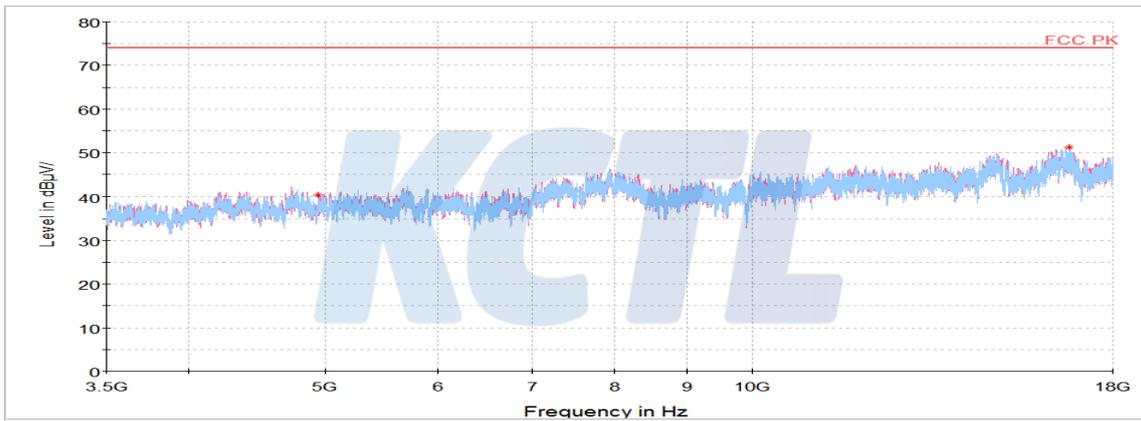
Frequency	Pol.	Reading	Ant. Factor	Amp. + Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μ V))	(dB)	(dB)	(dB)	(dB(μ V/m))	(dB(μ V/m))	(dB)
Peak data								
2 404.98	H	42.24	31.91	-29.00	-	45.15	74.00	28.85
2 485.28 ¹⁾	V	40.25	32.07	-29.22	-	43.10	74.00	30.90
4 945.47 ¹⁾	V	61.24	33.98	-54.92	-	40.30	74.00	33.70
16 778.38	V	55.85	41.78	-46.45	-	51.18	74.00	22.82
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

Horizontal/Vertical for Band-edge

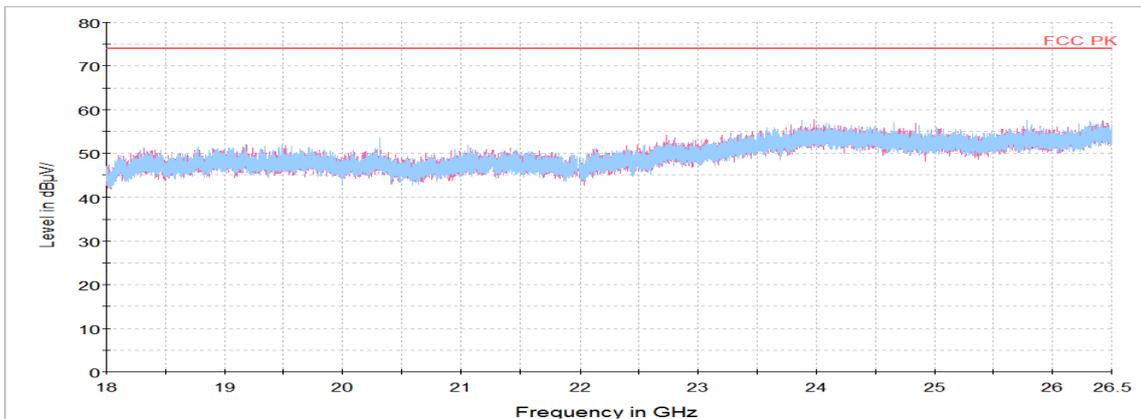
Horizontal/Vertical for 1 GHz ~ 3.5 GHz



Horizontal/Vertical for 3.5 GHz ~ 18 GHz



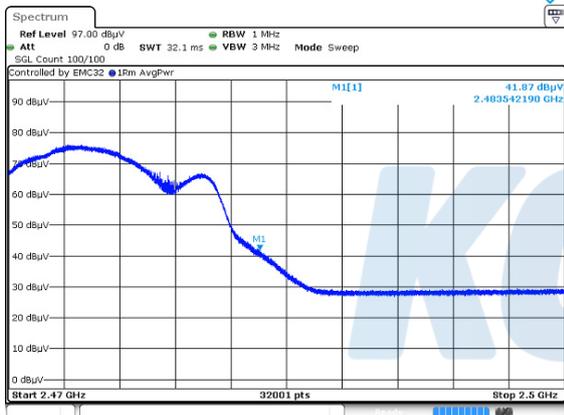
Horizontal/Vertical for 18 GHz ~ 26.5 GHz



802.11n HT20_2 472 MHz

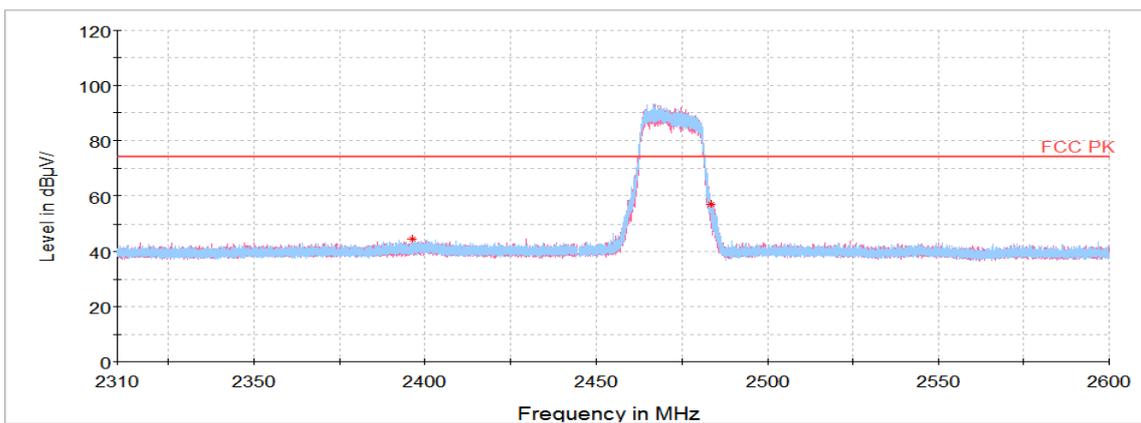
Frequency	Pol.	Reading	Ant. Factor	Amp. + Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
2 407.79	H	40.11	31.92	-29.01	-	43.02	74.00	30.98
2 483.54 ¹⁾	H	51.47	32.07	-29.21	-	54.33	74.00	19.67
4 972.20 ¹⁾	V	60.68	33.99	-54.45	-	40.22	74.00	33.78
16 727.63	V	56.96	41.73	-46.28	-	52.41	74.00	21.59
Average Data								
2 483.54 ¹⁾	H	41.87	32.07	-29.21	-	44.73	54.00	9.27

Average data

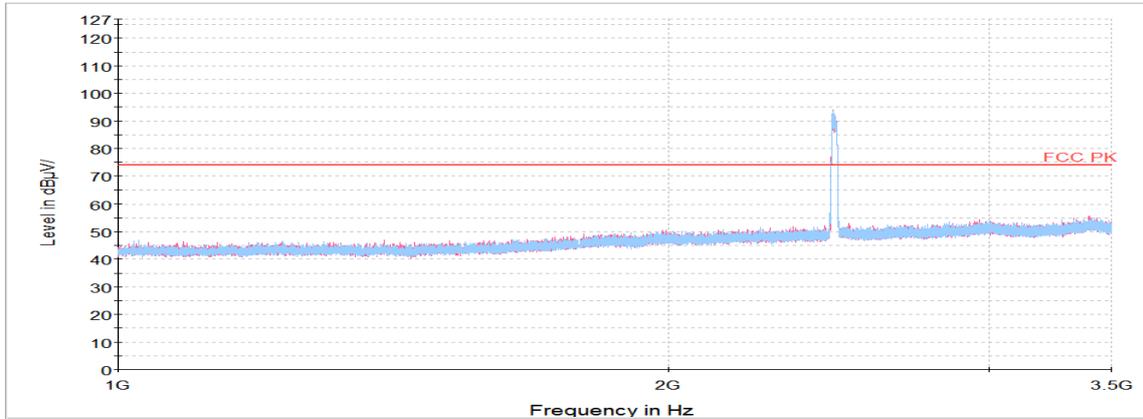


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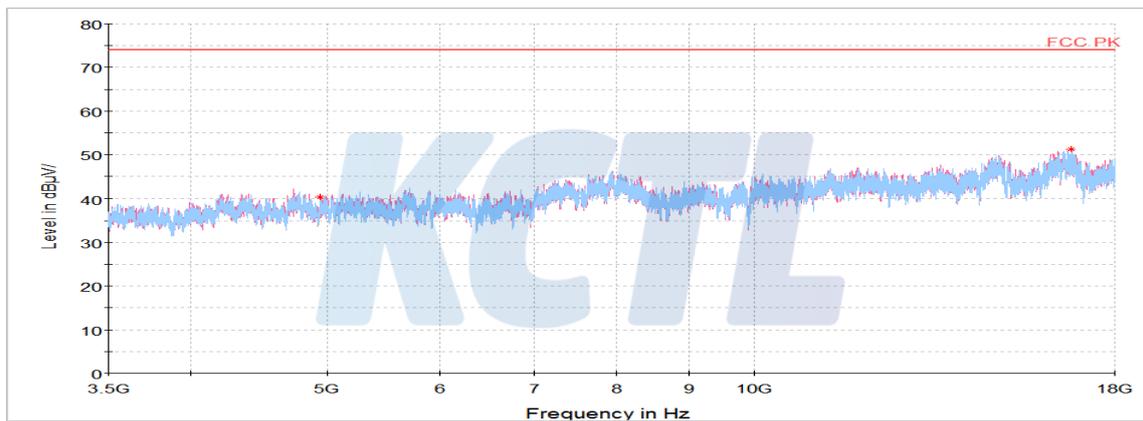
Horizontal/Vertical for Band-edge



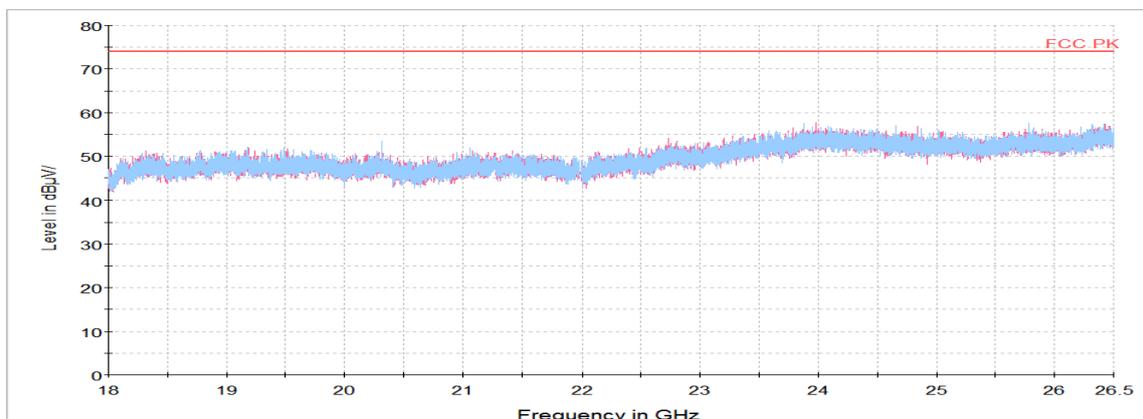
Horizontal/Vertical for 1 GHz ~ 3.5 GHz



Horizontal/Vertical for 3.5 GHz ~ 18 GHz



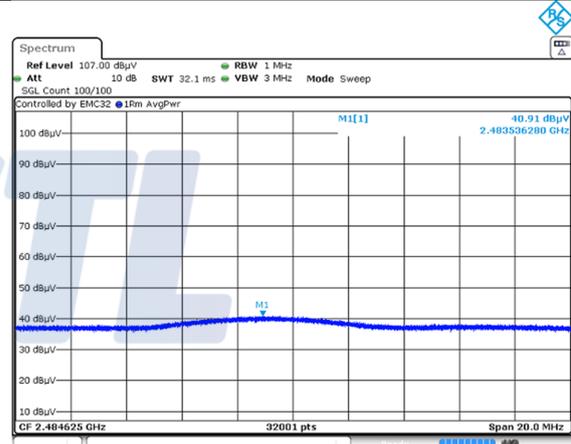
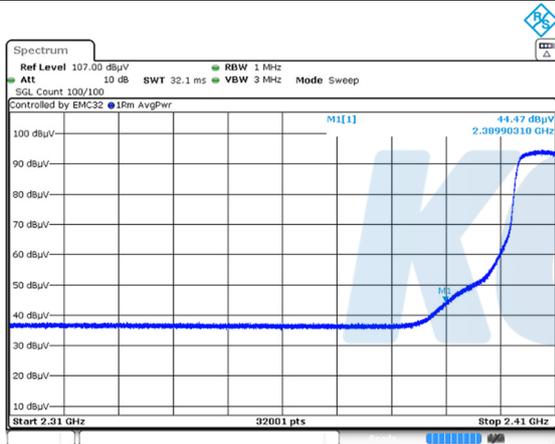
Horizontal/Vertical for 18 GHz ~ 26.5 GHz



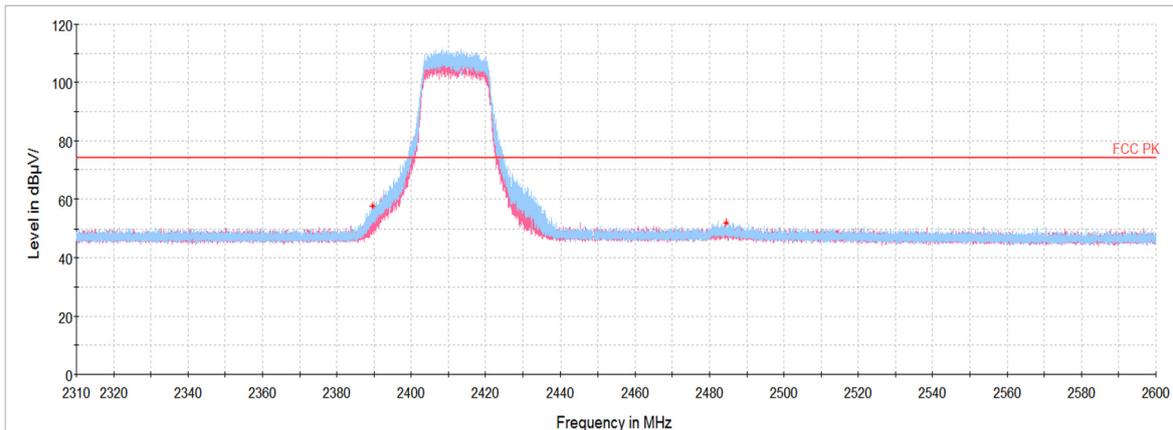
802.11ac VHT20_2 412 MHz

Frequency	Pol.	Reading	Ant. Factor	Amp. + Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
2 389.90 ¹⁾	H	54.66	31.88	-29.04	-	57.50	74.00	16.50
2 483.54 ¹⁾	H	49.08	32.07	-29.21	-	51.94	74.00	22.06
4 821.77 ¹⁾	H	61.55	33.93	-53.52	-	41.96	74.00	32.04
7 238.73	H	62.59	35.40	-52.96	-	45.03	74.00	28.97
Average Data								
2 389.90 ¹⁾	H	44.47	31.88	-29.04	-	47.31	54.00	6.69
2 483.54 ¹⁾	H	40.91	32.07	-29.21	-	43.77	54.00	10.23

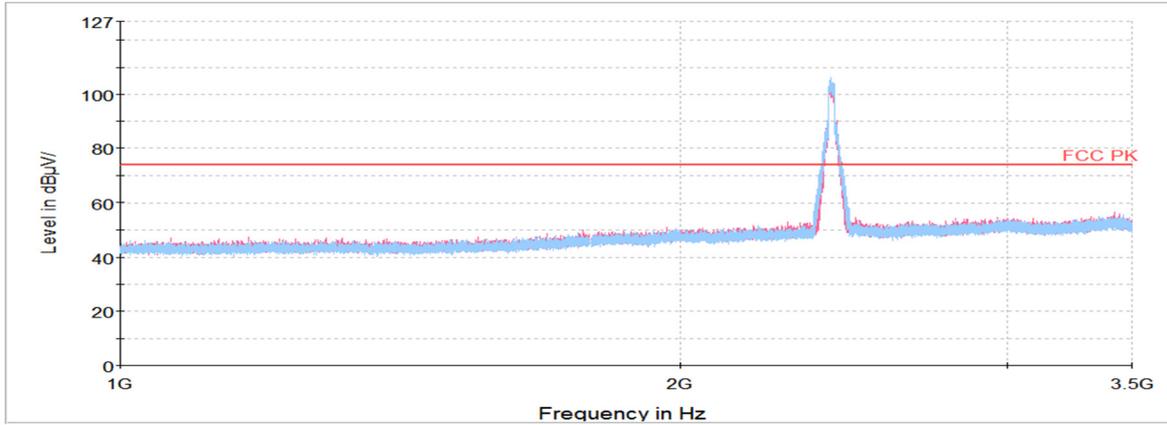
Average data



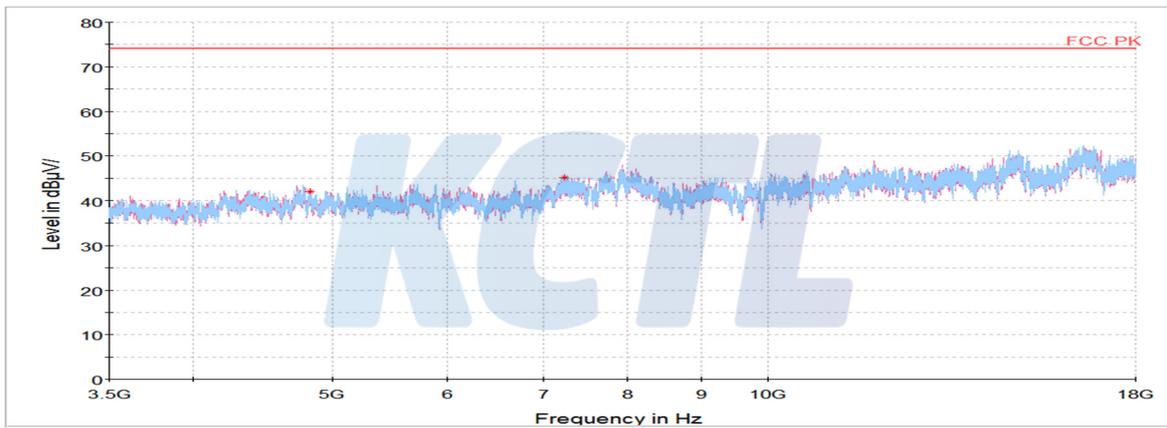
Horizontal/Vertical for Band-edge



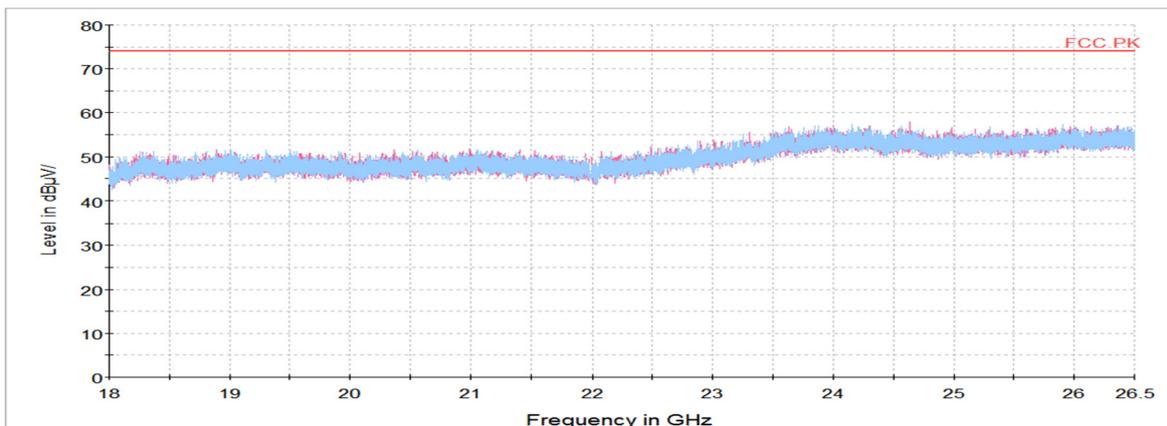
Horizontal/Vertical for 1 GHz ~ 3.5 GHz



Horizontal/Vertical for 3.5 GHz ~ 18 GHz



Horizontal/Vertical for 18 GHz ~ 26.5 GHz

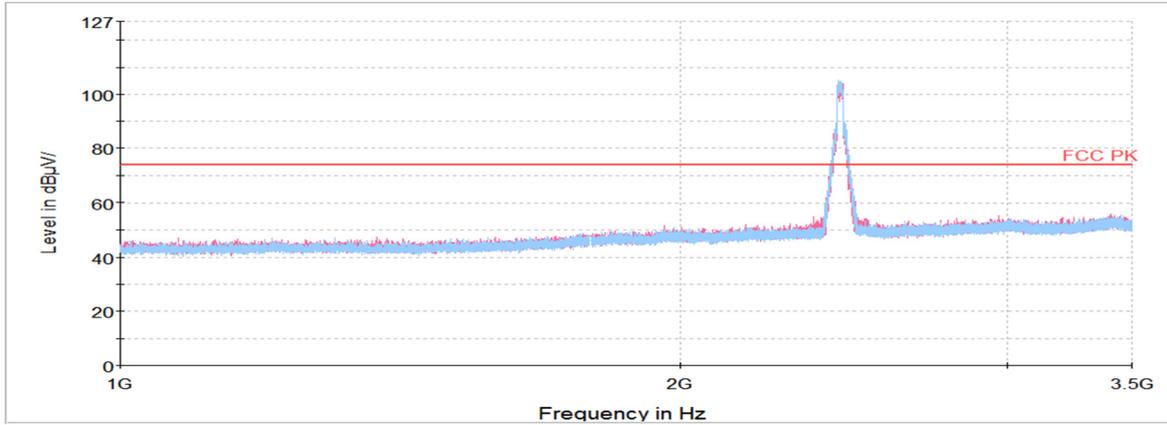


802.11ac VHT20_2 437 MHz

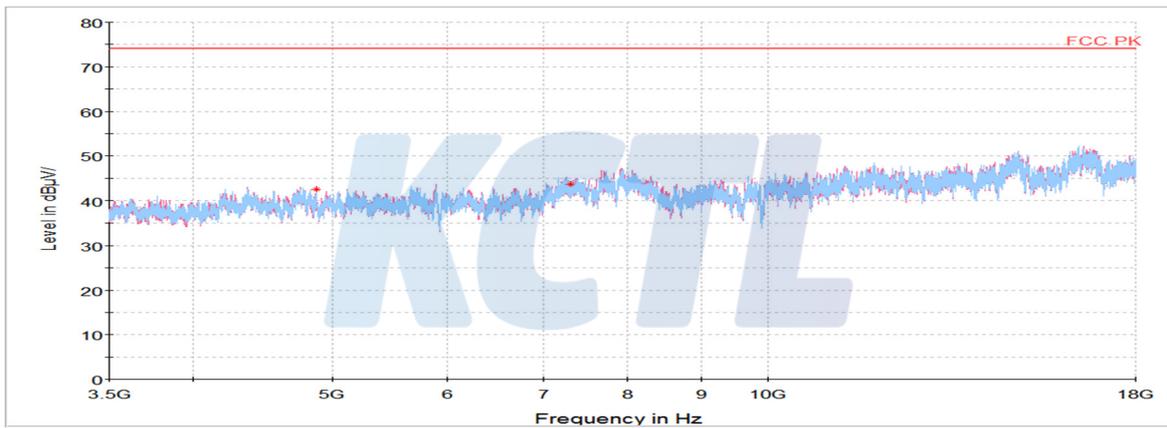
Frequency (MHz)	Pol. (V/H)	Reading (dB(μ V))	Ant. Factor (dB)	Amp. + Cable (dB)	DCF (dB)	Result (dB(μ V/m))	Limit (dB(μ V/m))	Margin (dB)
Peak data								
4 874.78 ¹⁾	H	63.55	33.95	-55.02	-	42.48	74.00	31.52
7 318.94 ¹⁾	H	60.83	35.40	-52.66	-	43.57	74.00	30.43
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

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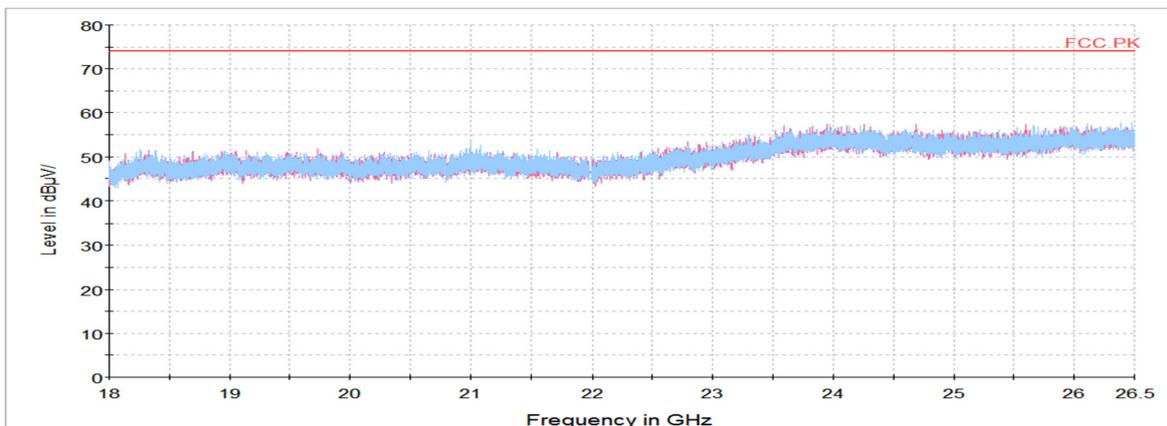
Horizontal/Vertical for 1 GHz ~ 3.5 GHz



Horizontal/Vertical for 3.5 GHz ~ 18 GHz



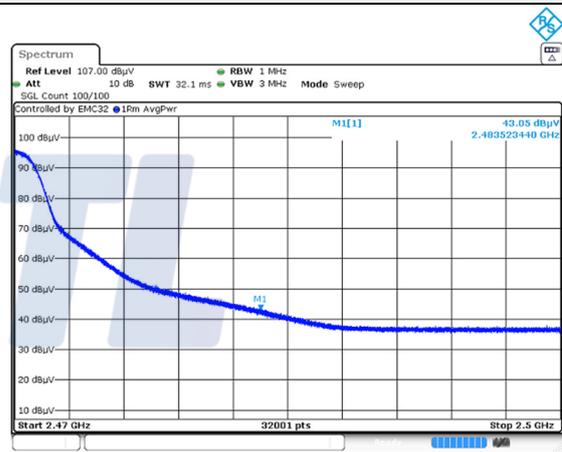
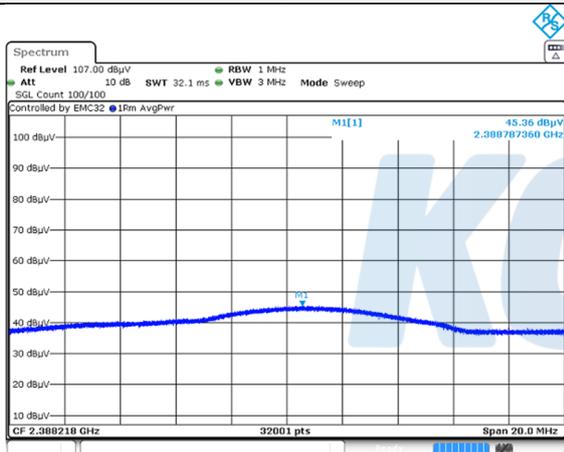
Horizontal/Vertical for 18 GHz ~ 26.5 GHz



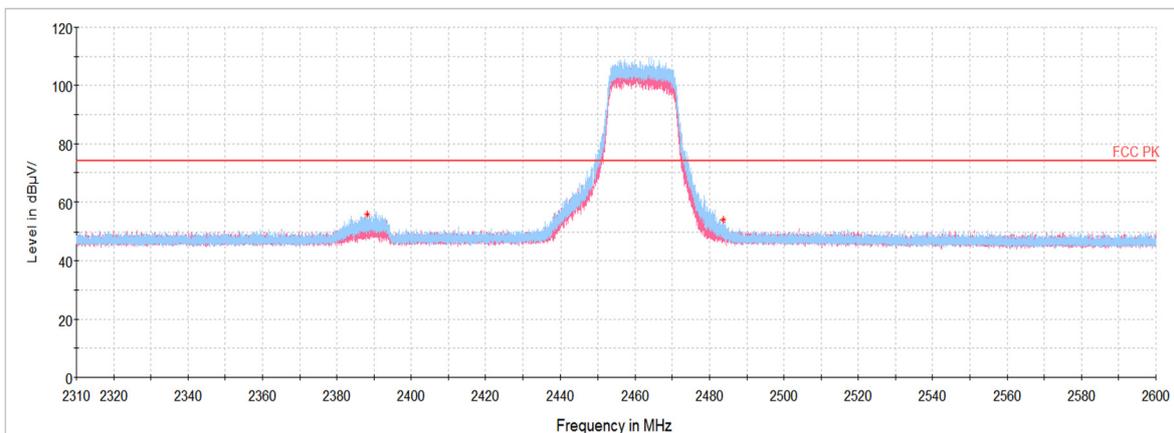
802.11ac VHT20_2 462 MHz

Frequency	Pol.	Reading	Ant. Factor	Amp. + Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
2 388.79 ¹⁾	H	52.92	31.88	-29.04	-	55.76	74.00	18.24
2 483.52 ¹⁾	H	50.95	32.07	-29.21	-	53.81	74.00	20.19
4 923.72 ¹⁾	H	61.38	33.97	-55.31	-	40.04	74.00	33.96
7 381.92 ¹⁾	H	61.80	35.40	-52.42	-	44.78	74.00	29.22
Average Data								
2 388.79 ¹⁾	H	45.36	31.88	-29.04	-	48.20	54.00	5.80
2 483.52 ¹⁾	H	43.05	32.07	-29.21	-	45.91	54.00	8.09

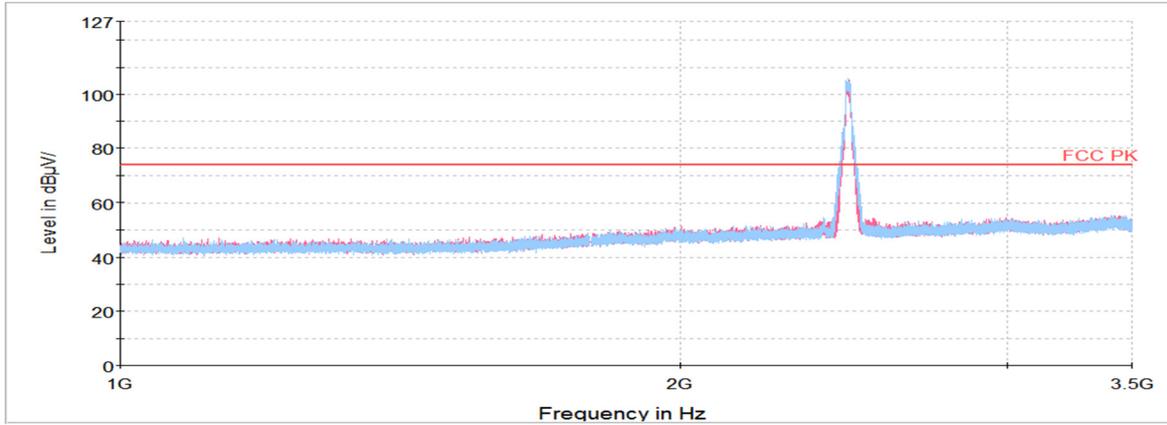
Average data



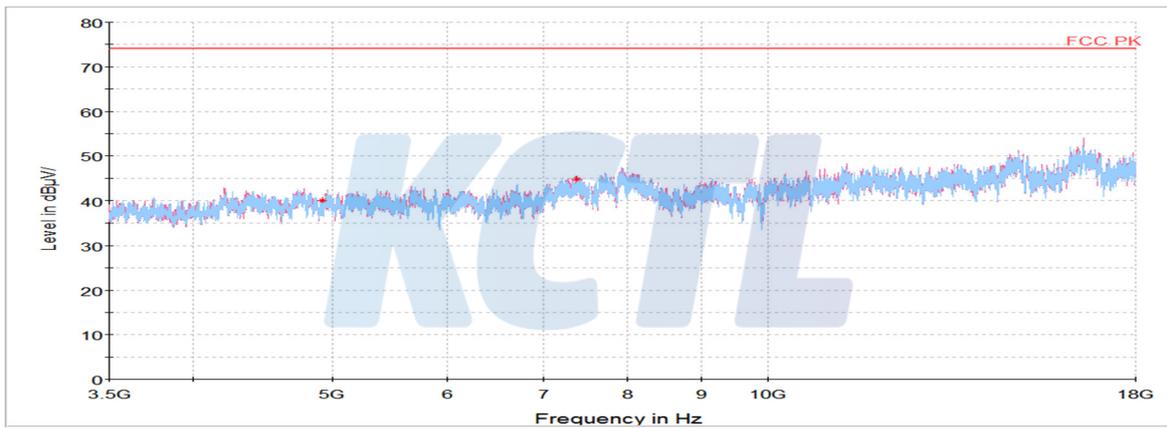
Horizontal/Vertical for Band-edge



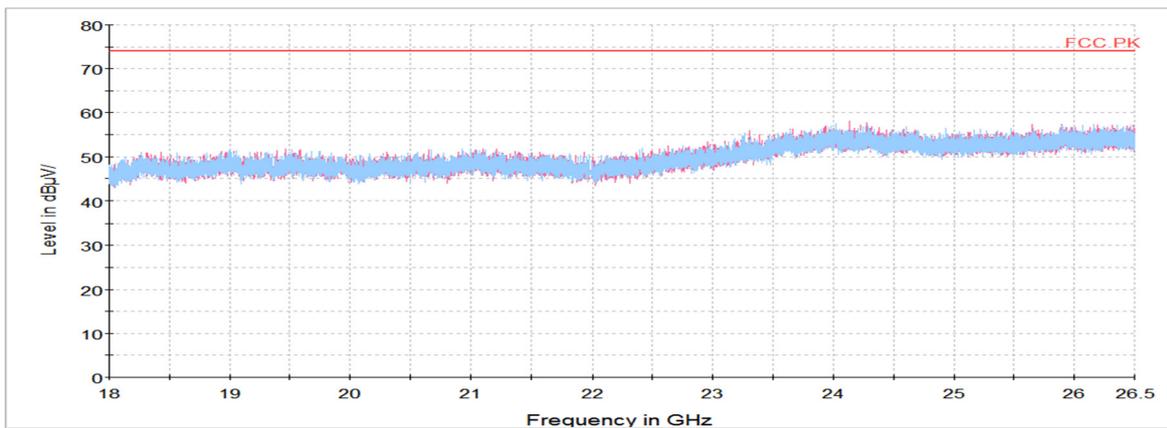
Horizontal/Vertical for 1 GHz ~ 3.5 GHz



Horizontal/Vertical for 3.5 GHz ~ 18 GHz

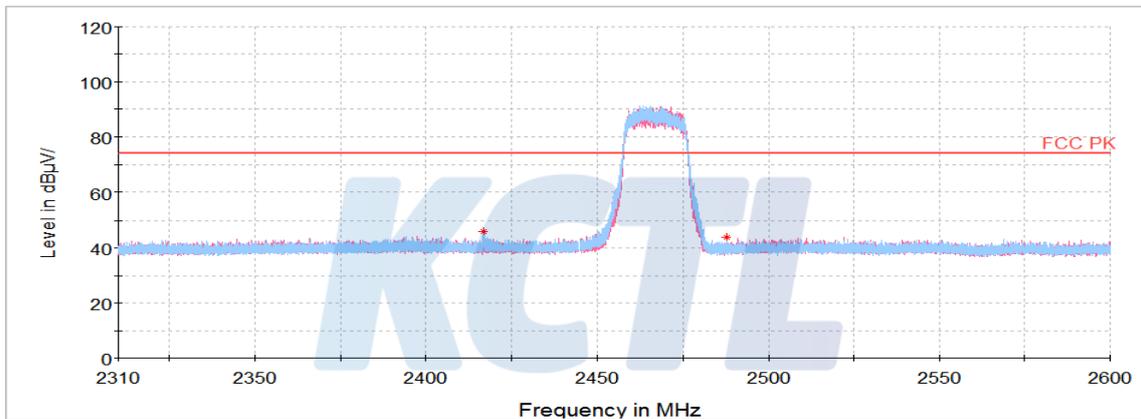


Horizontal/Vertical for 18 GHz ~ 26.5 GHz

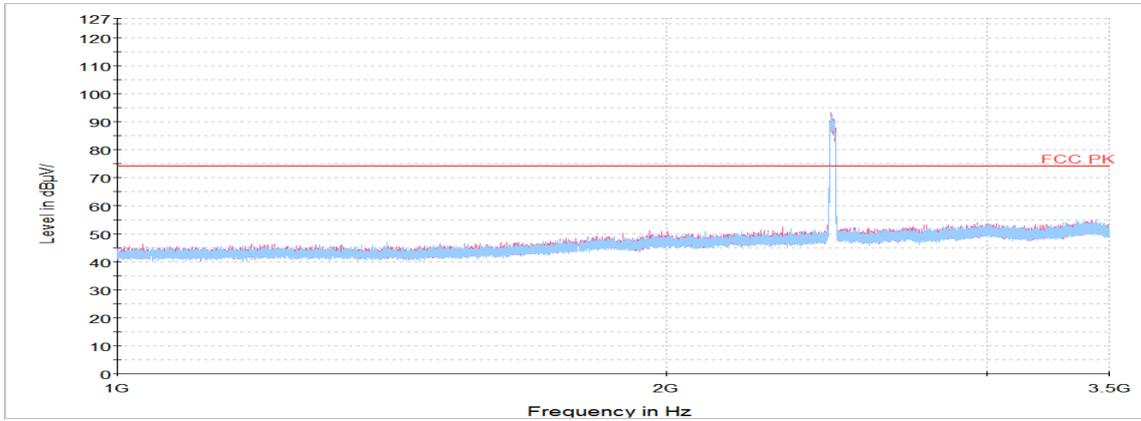


802.11ac VHT20_2 467 MHz

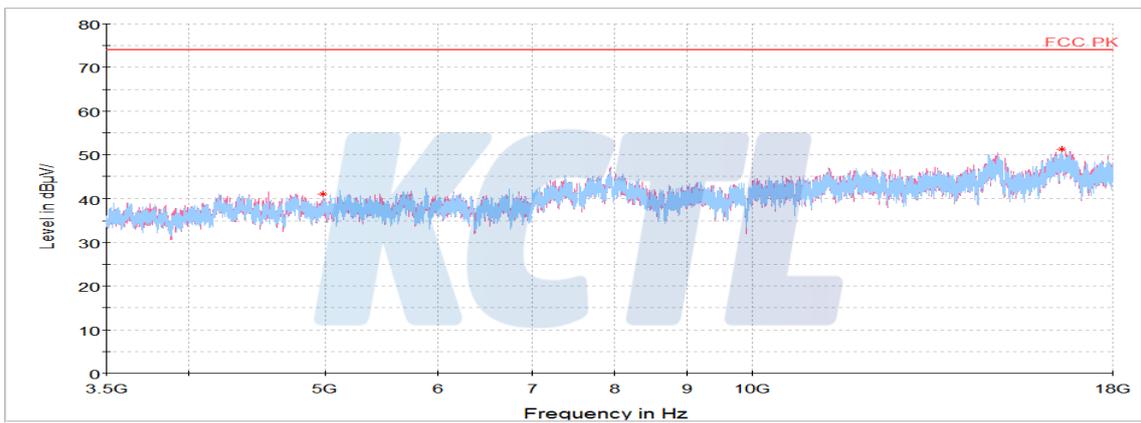
Frequency (MHz)	Pol. (V/H)	Reading (dB(μ V))	Ant. Factor (dB)	Amp. + Cable (dB)	DCF (dB)	Result (dB(μ V/m))	Limit (dB(μ V/m))	Margin (dB)
Peak data								
2 416.82	H	43.00	31.93	-29.03	-	45.90	74.00	28.10
2 487.78 ¹⁾	H	40.96	32.08	-29.23	-	43.81	74.00	30.19
4 979.91 ¹⁾	H	61.32	33.99	-54.31	-	41.00	74.00	33.00
16 585.34	V	55.35	41.59	-45.79	-	51.15	74.00	22.85
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

Horizontal/Vertical for Band-edge

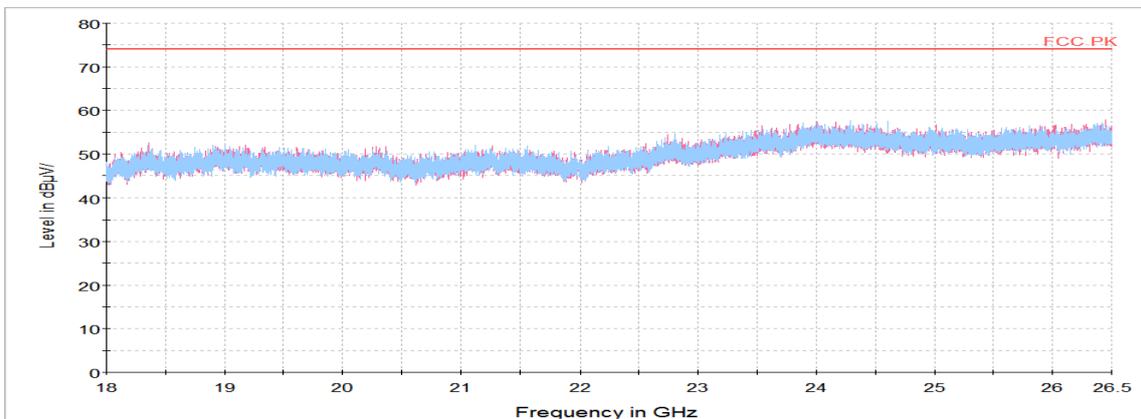
Horizontal/Vertical for 1 GHz ~ 3.5 GHz



Horizontal/Vertical for 3.5 GHz ~ 18 GHz



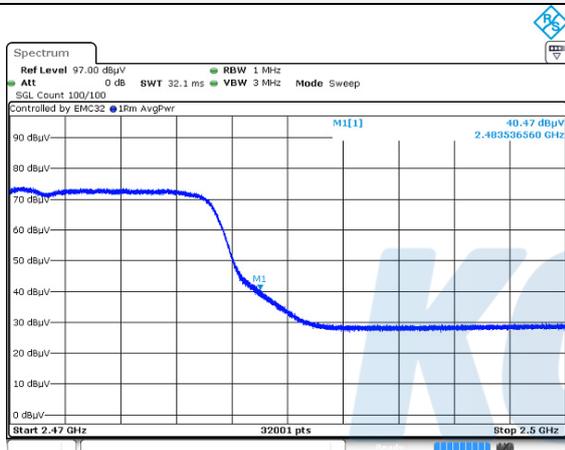
Horizontal/Vertical for 18 GHz ~ 26.5 GHz



802.11ac VHT20_2 472 MHz

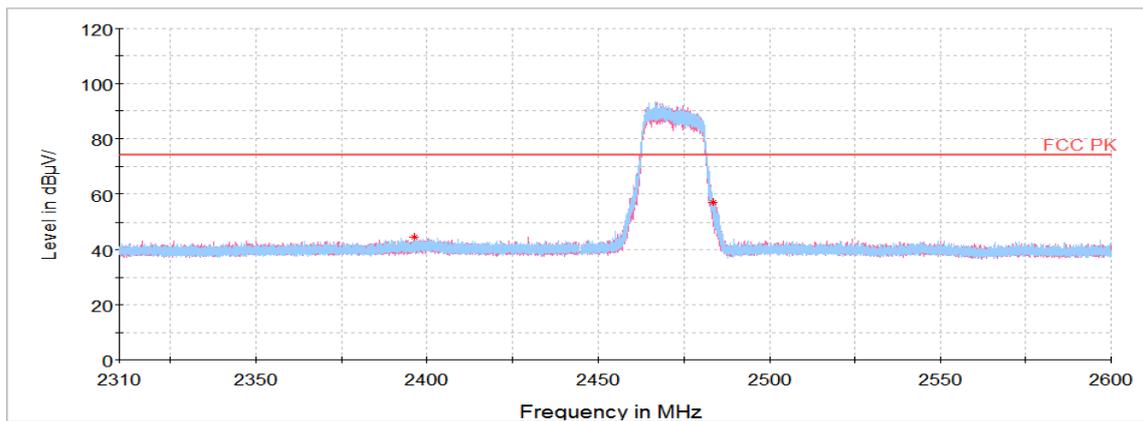
Frequency	Pol.	Reading	Ant. Factor	Amp. + Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
2 483.54 ¹⁾	H	48.88	32.07	-29.21	-	51.74	74.00	22.26
4 979.91 ¹⁾	H	60.31	33.99	-54.31	-	39.99	74.00	34.01
16 424.94	V	55.04	41.85	-45.96	-	50.93	74.00	23.07
Average Data								
2 483.54 ¹⁾	H	40.47	32.07	-29.21	-	43.33	54.00	10.67

Average data

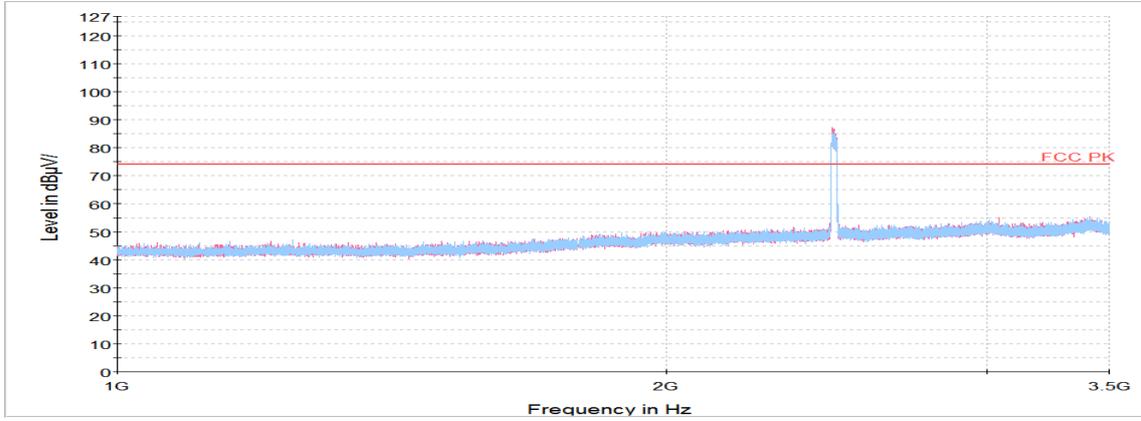


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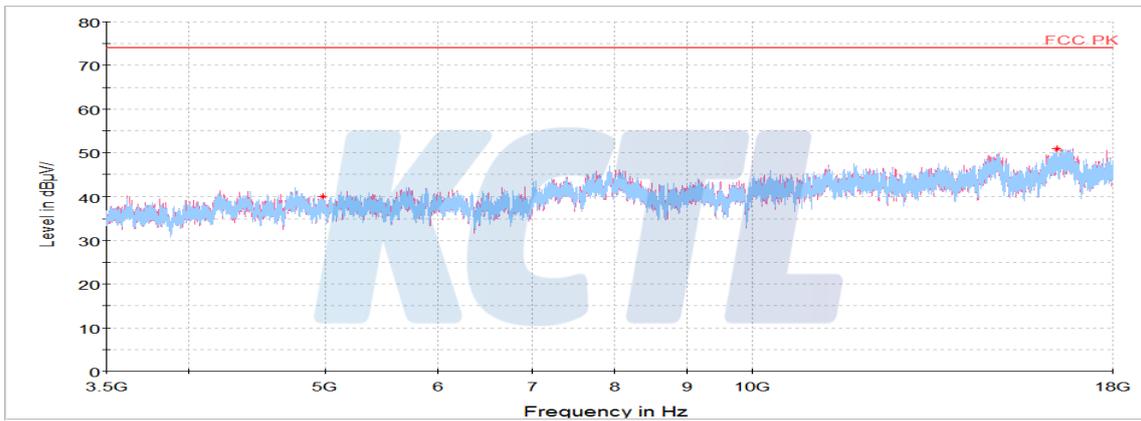
Horizontal/Vertical for Band-edge



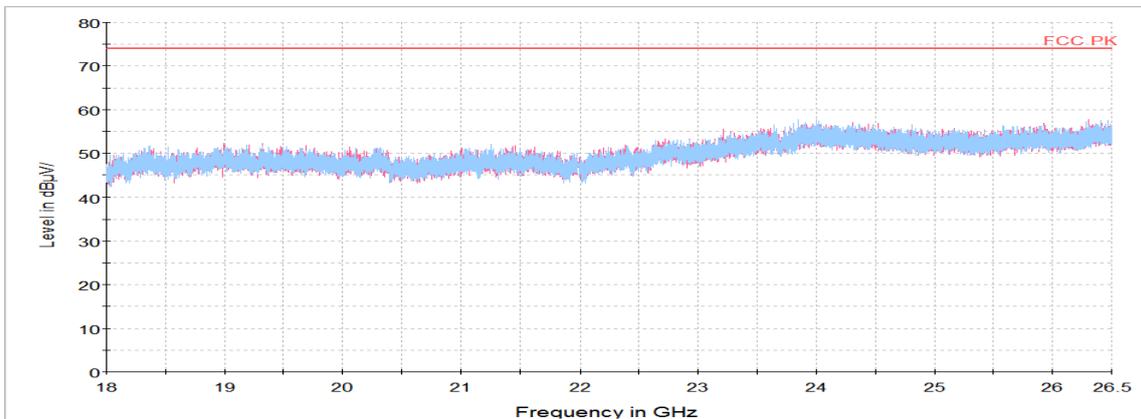
Horizontal/Vertical for 1 GHz ~ 3.5 GHz



Horizontal/Vertical for 3.5 GHz ~ 18 GHz



Horizontal/Vertical for 18 GHz ~ 26.5 GHz



7.5. Conducted Spurious Emission

Test setup



Limit

According to §15.247(d), In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operation, 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 averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation specified in §15.209(a) is not required. In addition, radiated emission limits specified in §15.209(a) (see §15.205(c)).

Limit : 20 dBc

Test procedure

ANSI C63.10 - Section 11.11.3, 14.3.3

Test settings

Establish an emission level by using the following procedure:

- 1) Set the center frequency and span to encompass frequency range to be measured.
- 2) Set the RBW = 100 kHz
- 3) Set the VBW \geq [3 x RBW]
- 4) Detector = peak
- 5) Sweep time = auto couple
- 6) Trace mode = max hold
- 7) Allow trace to fully stabilize.
- 8) Use the peak marker function to determine the maximum amplitude level.

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum requirements specified in 11.11. Report the three highest emissions relative to the limit.