

KCTL Inc.

65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

Report No.:
KR20-SRF0029-B

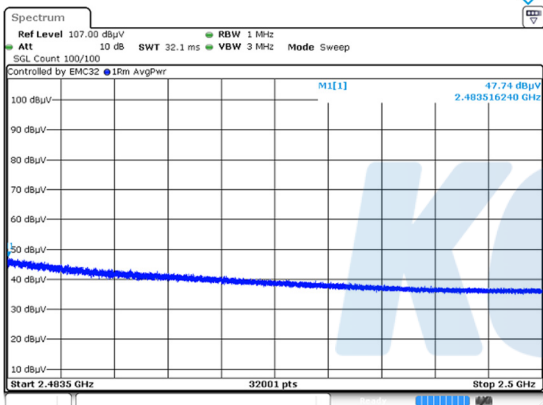
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Highest Channel (2 462 MHz)

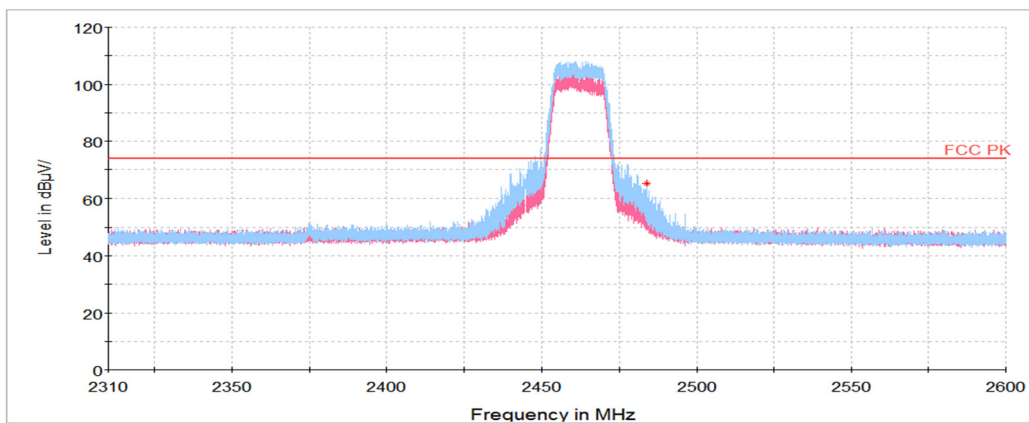
Frequency	Pol.	Reading	Ant. Factor	Amp. + Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
2 483.52 ¹⁾	H	62.24	32.07	-29.21	-	65.10	74.00	8.90
3 999.80 ¹⁾	H	72.73	33.00	-56.65	-	49.08	74.00	24.92
4 925.08 ¹⁾	H	60.51	33.97	-54.87	-	39.61	74.00	34.39
7 387.36 ¹⁾	V	61.81	35.40	-51.13	-	46.08	74.00	27.92
Average Data								
2 483.52 ¹⁾	H	47.74	32.07	-29.21	0.23	50.83	54.00	3.17

Average data (2 483.52 MHz)



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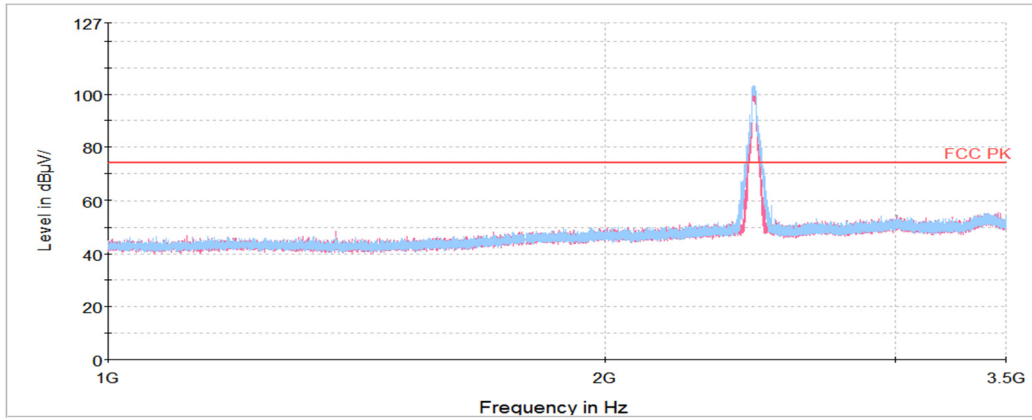
Horizontal/Vertical for Band-edge



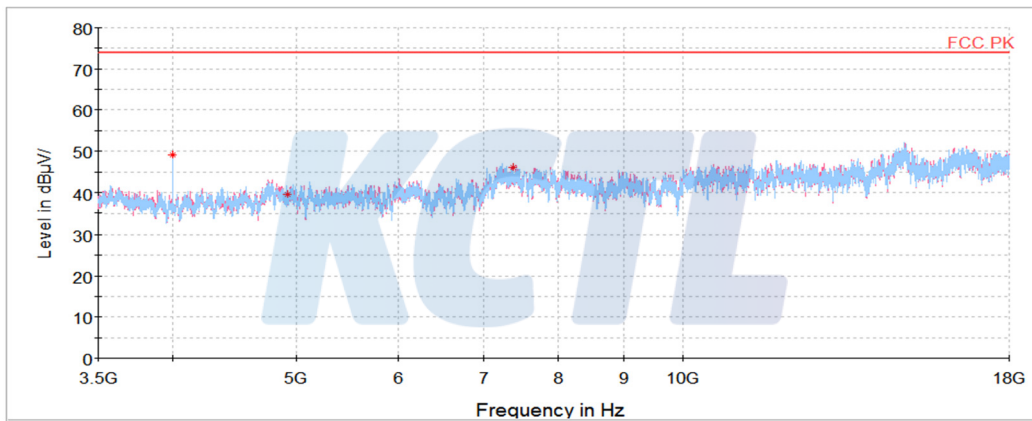
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KCTL-TIR001-003/2

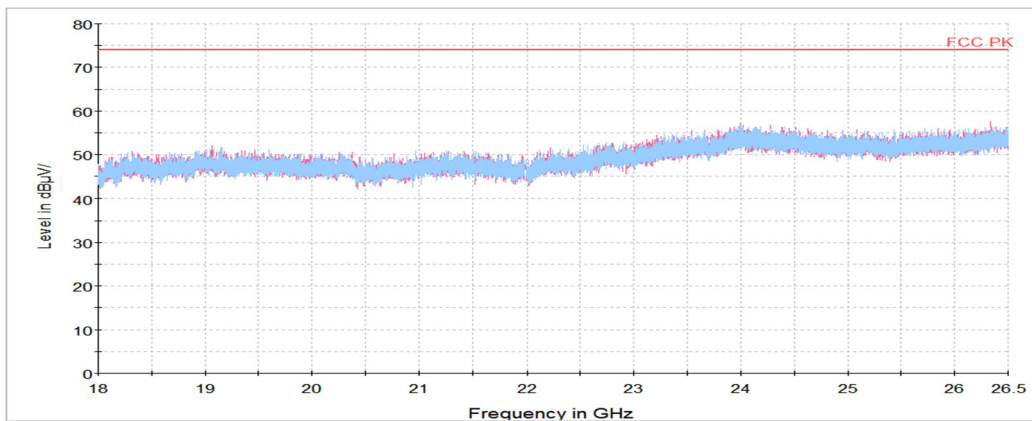
Horizontal/Vertical for 1 GHz ~ 3.5 GHz



Horizontal/Vertical for 3.5 GHz ~ 18 GHz



Horizontal/Vertical for 18 GHz ~ 26.5 GHz



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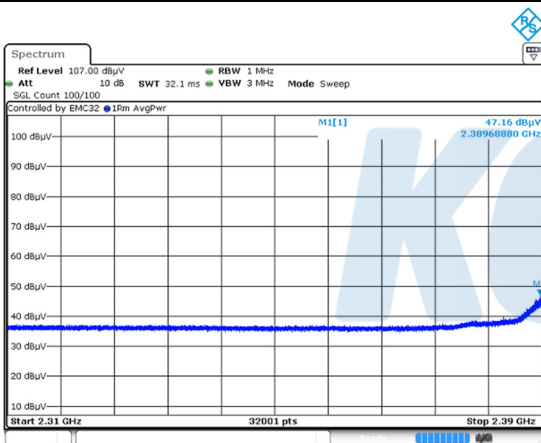


802.11g 3TX MIMO

Lowest Channel (2 412 MHz)

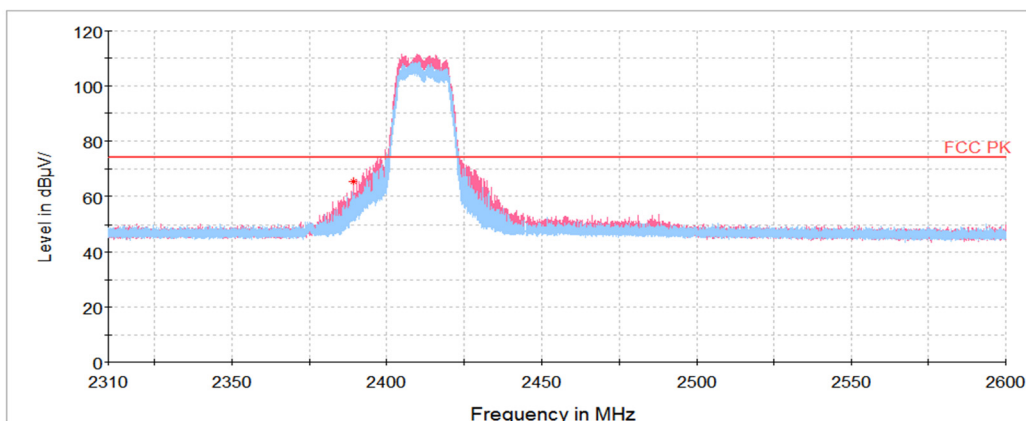
Frequency	Pol.	Reading	Ant. Factor	Amp. + Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μ V))	(dB)	(dB)	(dB)	(dB(μ V/m))	(dB(μ V/m))	(dB)
Peak data								
2 389.69 ¹⁾	V	62.48	31.88	-29.04	-	65.32	74.00	8.68
3 999.80 ¹⁾	H	68.71	33.00	-56.65	-	45.06	74.00	28.94
4 823.13 ¹⁾	H	62.03	33.93	-52.80	-	43.16	74.00	30.84
7 236.02	V	61.03	35.40	-51.87	-	44.56	74.00	29.44
Average Data								
2 389.69 ¹⁾	V	47.16	31.88	-29.04	0.23	50.23	54.00	3.77

Average data (2 389.69 MHz)



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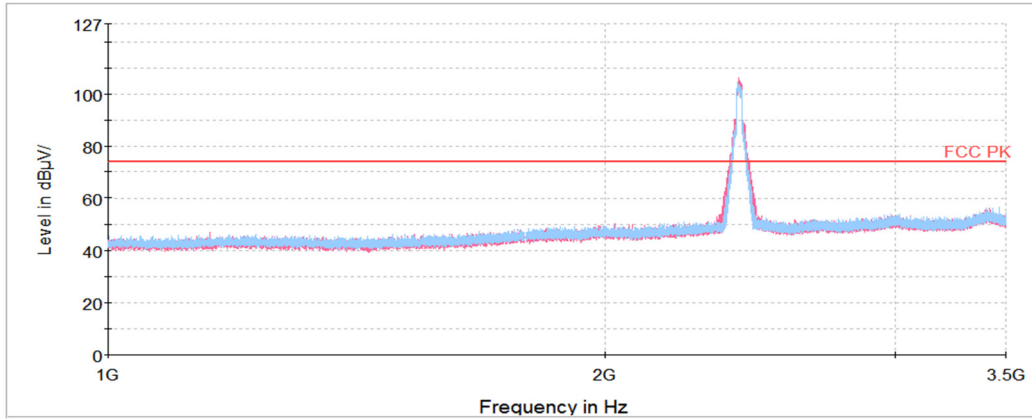
Horizontal/Vertical for Band-edge



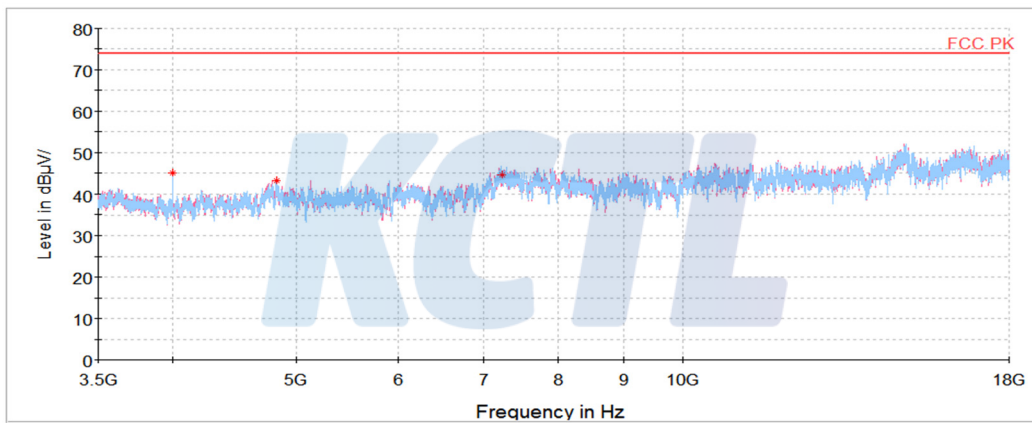
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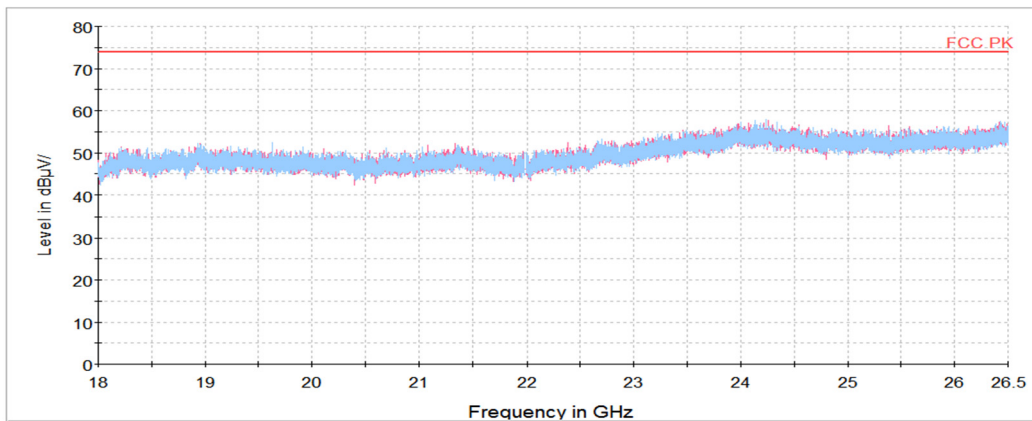
Horizontal/Vertical for 1 GHz ~ 3.5 GHz



Horizontal/Vertical for 3.5 GHz ~ 18 GHz



Horizontal/Vertical for 18 GHz ~ 26.5 GHz



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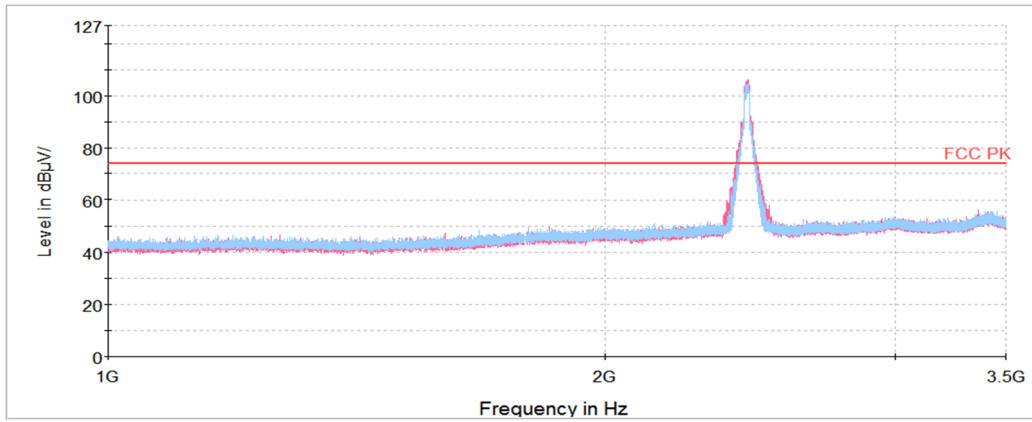
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KCTL**Middle Channel (2 437 MHz)**

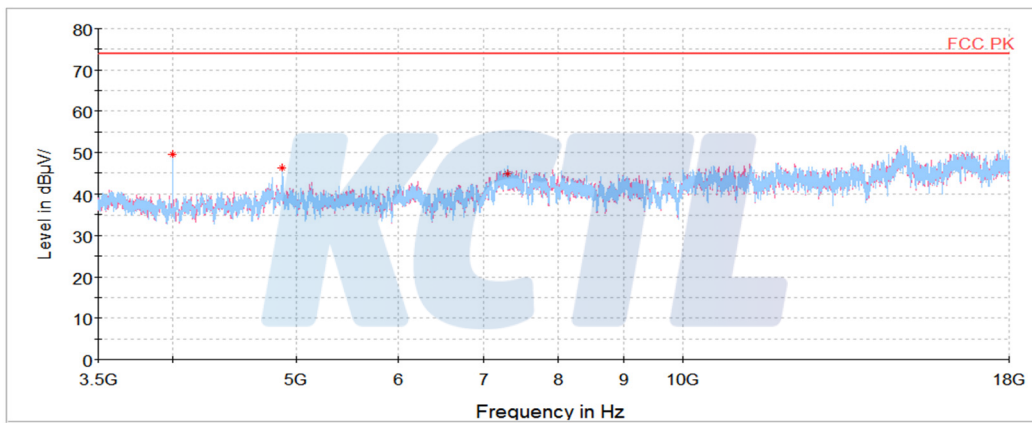
Frequency	Pol.	Reading	Ant. Factor	Amp. + Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB($\mu V/m$))	(dB($\mu V/m$))	(dB)
Peak data								
3 999.80	H	73.17	33.00	-56.65	-	49.52	74.00	24.48
4 873.42	H	66.55	33.95	-54.19	-	46.31	74.00	27.69
7 311.23	V	60.94	35.40	-51.50	-	44.84	74.00	29.16
Average Data								
No spurious emissions were detected within 20 dB of the limit								

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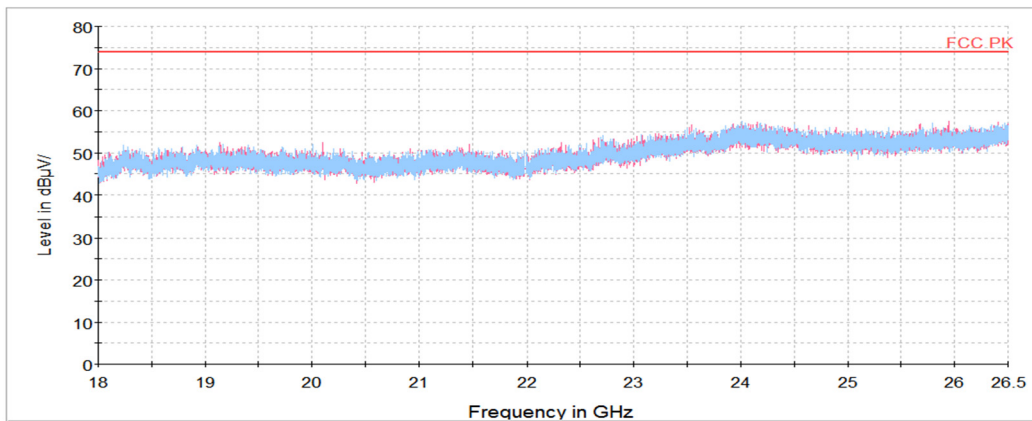
Horizontal/Vertical for 1 GHz ~ 3.5 GHz



Horizontal/Vertical for 3.5 GHz ~ 18 GHz



Horizontal/Vertical for 18 GHz ~ 26.5 GHz



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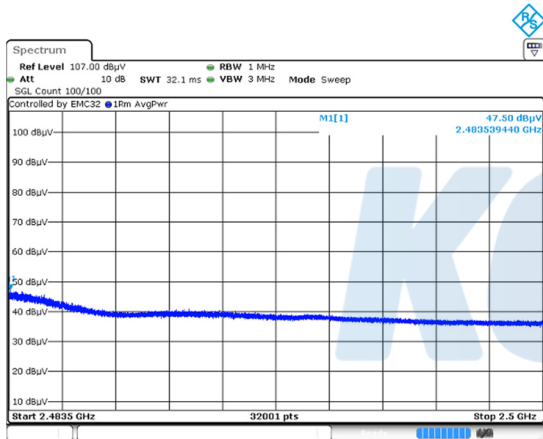
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Highest Channel (2 462 MHz)

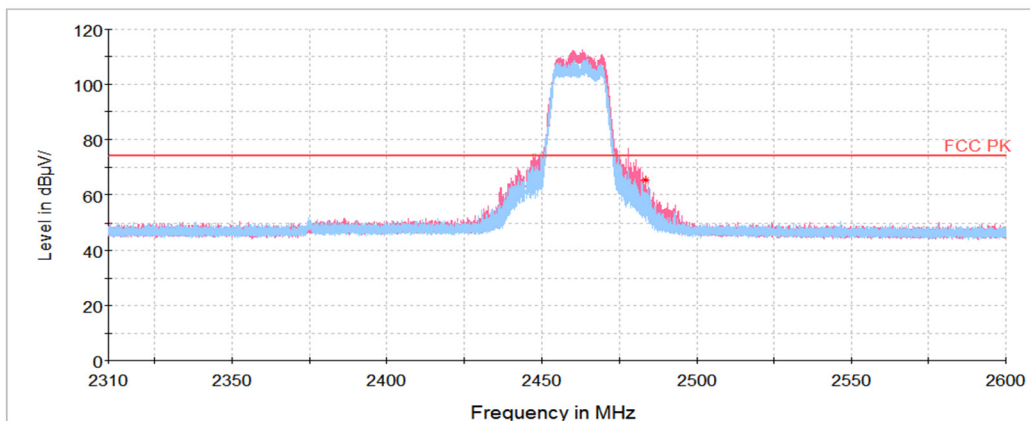
Frequency	Pol.	Reading	Ant. Factor	Amp. + Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
2 483.54 ¹⁾	V	62.52	32.07	-29.21	-	65.38	74.00	8.62
3 999.80 ¹⁾	H	67.38	33.00	-56.65	-	43.73	74.00	30.27
4 924.17 ¹⁾	H	62.93	33.97	-54.88	-	42.02	74.00	31.98
7 386.45 ¹⁾	H	59.87	35.40	-51.13	-	44.14	74.00	29.86
Average Data								
2 483.54 ¹⁾	V	47.50	32.07	-29.21	0.23	50.59	54.00	3.41

Average data (2 483.54 MHz)

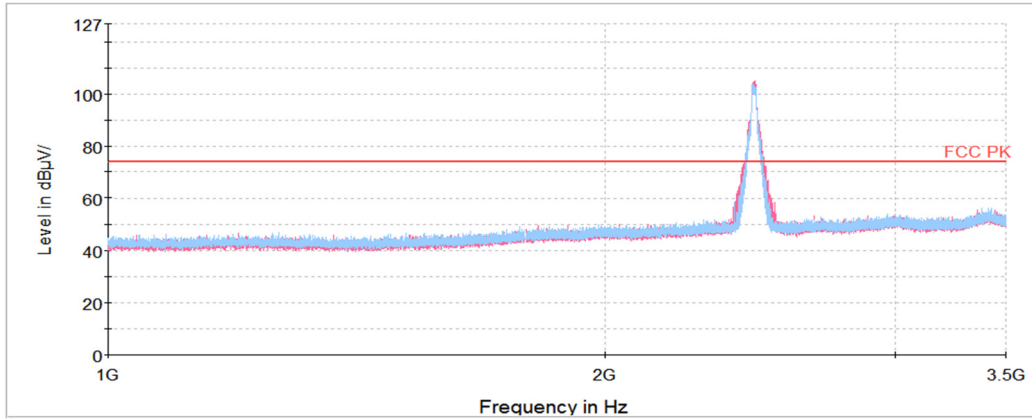


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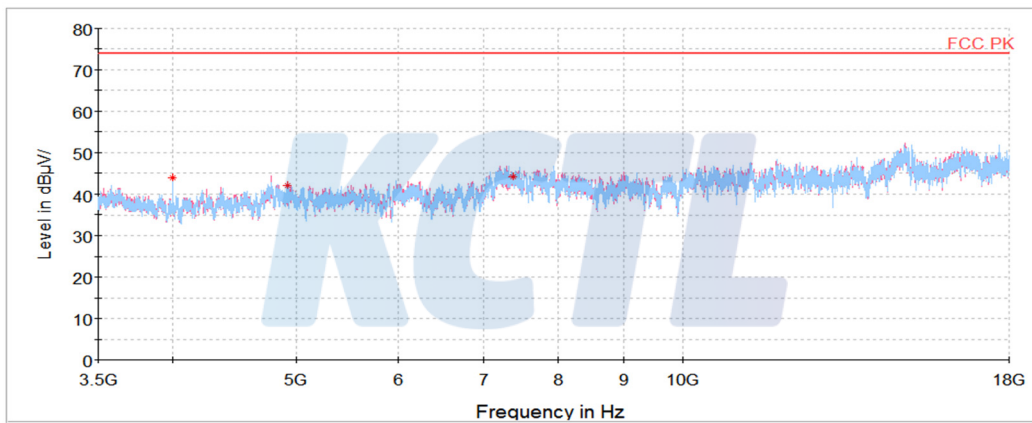
Horizontal/Vertical for Band-edge



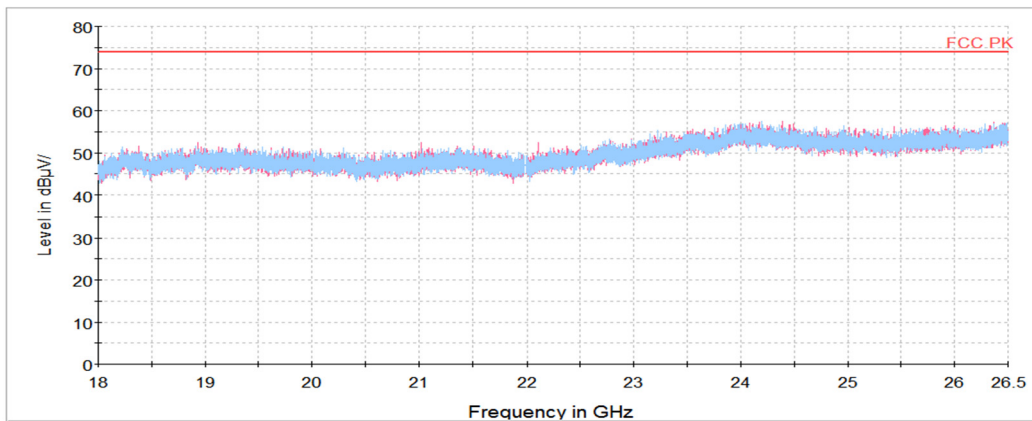
Horizontal/Vertical for 1 GHz ~ 3.5 GHz



Horizontal/Vertical for 3.5 GHz ~ 18 GHz



Horizontal/Vertical for 18 GHz ~ 26.5 GHz



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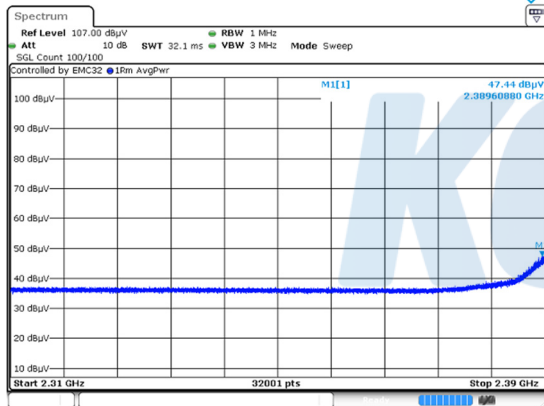


802.11n HT20 ANT 0

Lowest Channel (2 412 MHz)

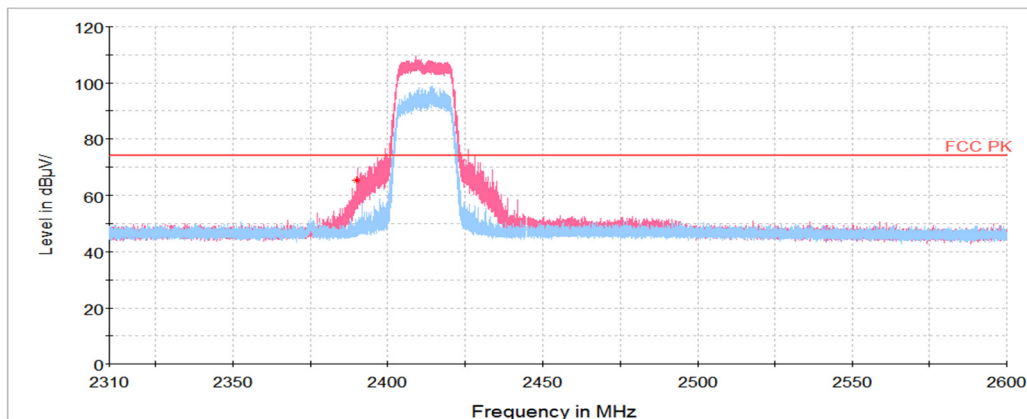
Frequency	Pol.	Reading	Ant. Factor	Amp. + Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μ V))	(dB)	(dB)	(dB)	(dB(μ V/m))	(dB(μ V/m))	(dB)
Peak data								
2 389.61 ¹⁾	V	62.47	31.88	-29.04	-	65.31	74.00	8.69
4 000.25 ¹⁾	H	68.93	33.00	-56.65	-	45.28	74.00	28.72
4 826.30 ¹⁾	H	61.73	33.93	-52.89	-	42.77	74.00	31.23
7 238.73	V	62.33	35.40	-51.86	-	45.87	74.00	28.13
Average Data								
2 389.61 ¹⁾	V	47.44	31.88	-29.04	0.20	50.48	54.00	3.52

Average data (2 389.61 MHz)

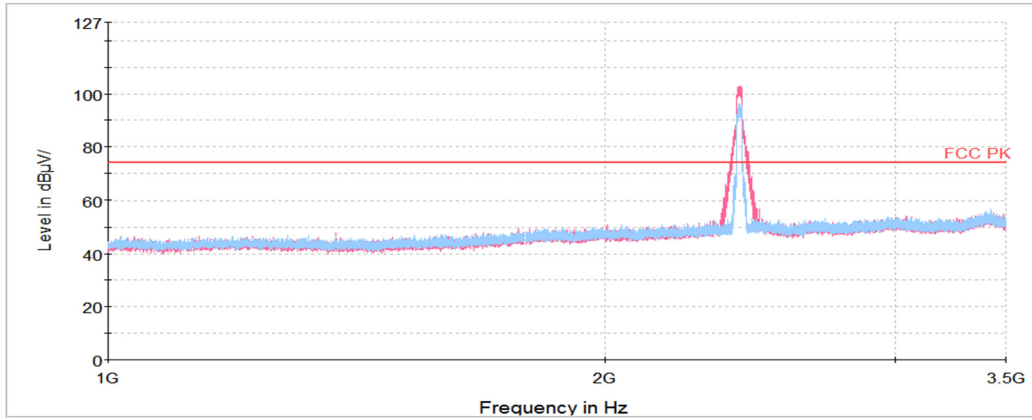


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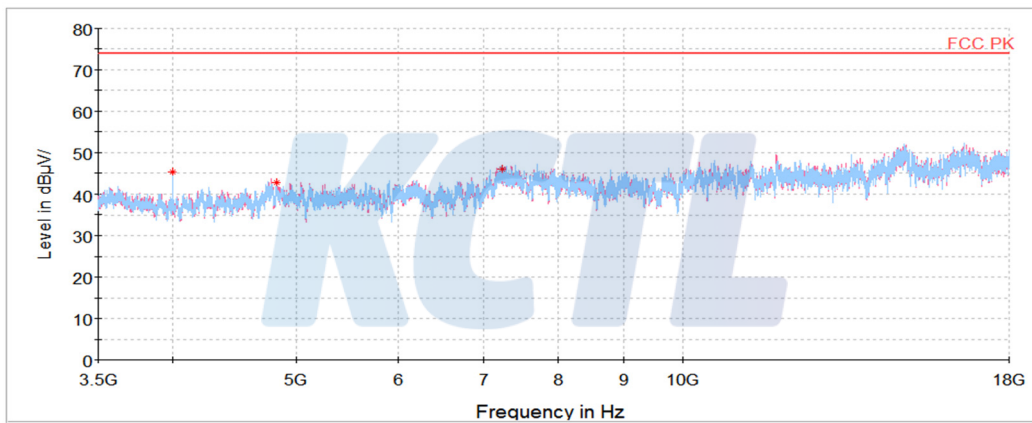
Horizontal/Vertical for Band-edge



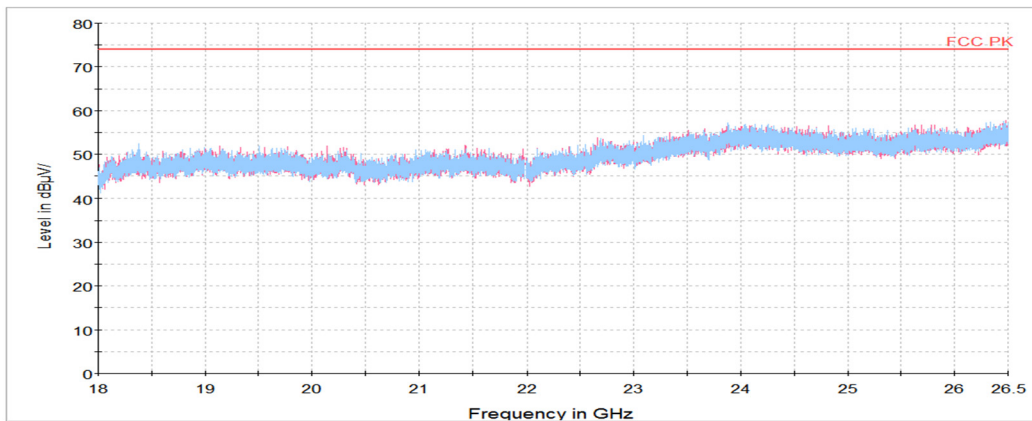
Horizontal/Vertical for 1 GHz ~ 3.5 GHz



Horizontal/Vertical for 3.5 GHz ~ 18 GHz



Horizontal/Vertical for 18 GHz ~ 26.5 GHz



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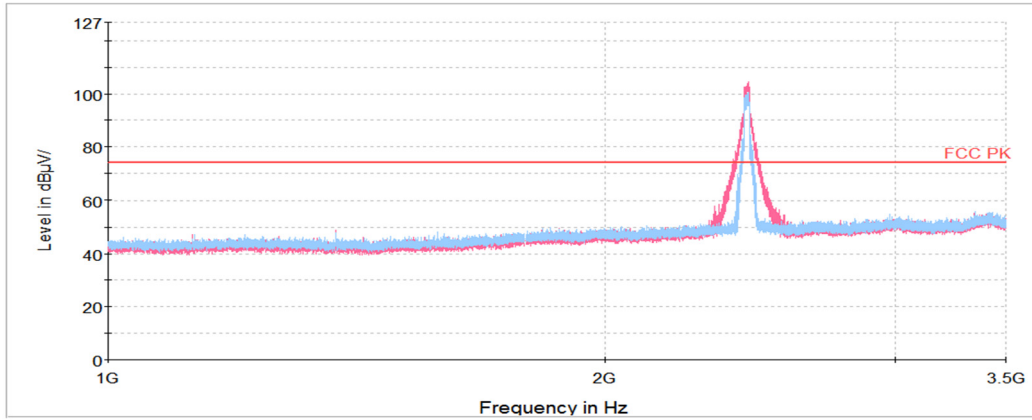
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**Middle Channel (2 437 MHz)**

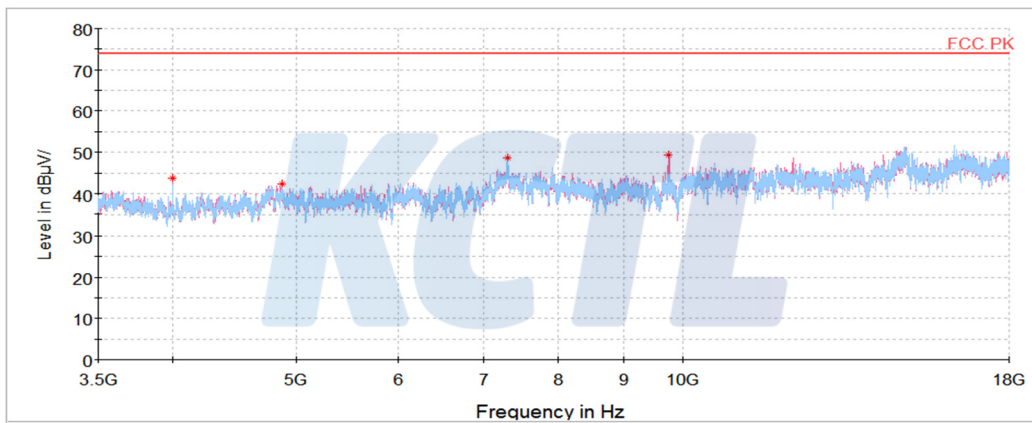
Frequency (MHz)	Pol. (V/H)	Reading (dB(μ V))	Ant. Factor (dB)	Amp. + Cable (dB)	DCCF (dB)	Result (dB(μ V/m))	Limit (dB(μ V/m))	Margin (dB)
Peak data								
3 999.80 ¹⁾	V	67.45	33.00	-56.65	-	43.80	74.00	30.20
4 874.33 ¹⁾	V	62.51	33.95	-54.22	-	42.24	74.00	31.76
7 309.88 ¹⁾	H	64.82	35.40	-51.51	-	48.71	74.00	25.29
9 750.86	V	65.28	36.70	-52.53	-	49.45	74.00	24.55
Average Data								
No spurious emissions were detected within 20 dB of the limit								



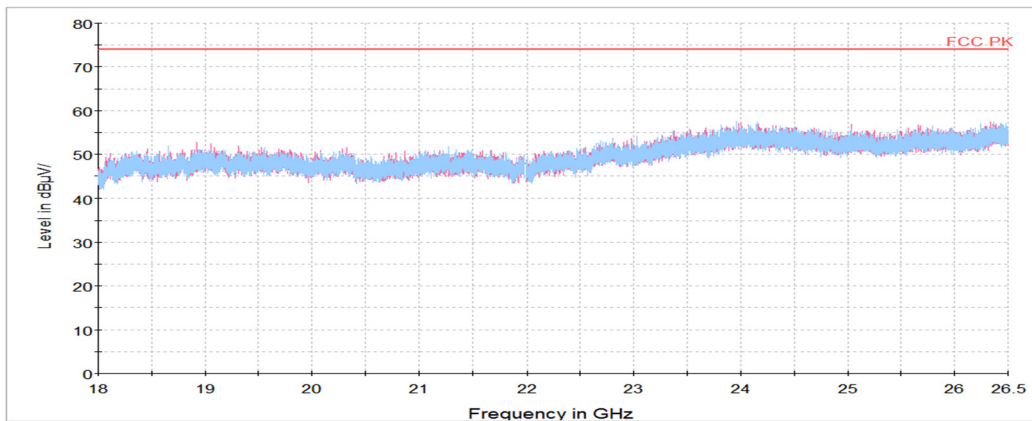
Horizontal/Vertical for 1 GHz ~ 3.5 GHz



Horizontal/Vertical for 3.5 GHz ~ 18 GHz



Horizontal/Vertical for 18 GHz ~ 26.5 GHz



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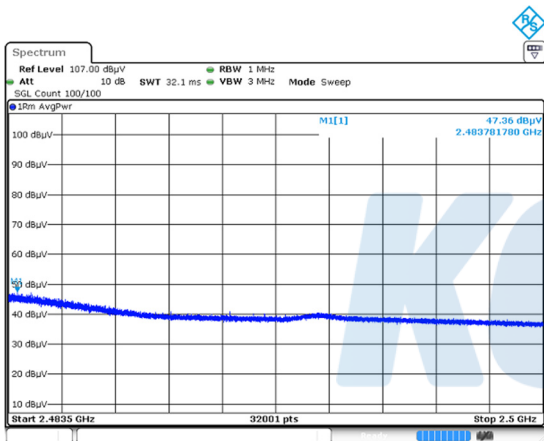
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Highest Channel (2 462 MHz)

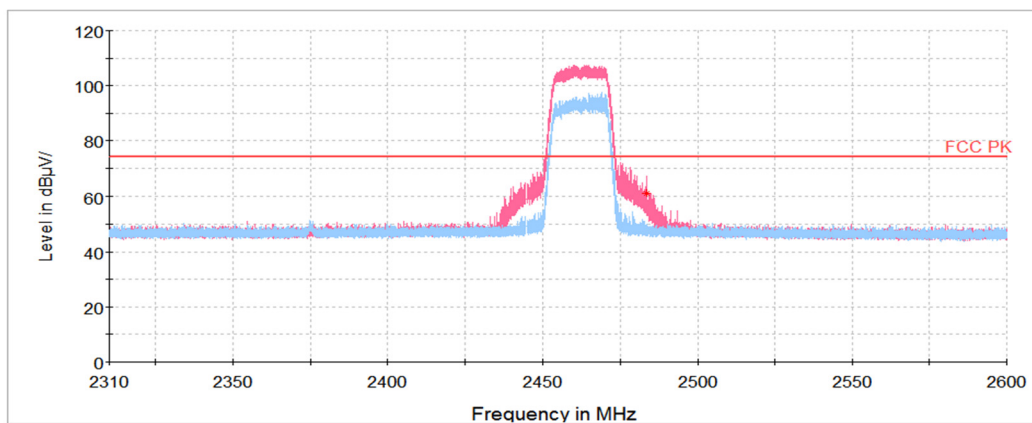
Frequency	Pol.	Reading	Ant. Factor	Amp. + Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
2 483.78 ¹⁾	V	58.00	32.07	-29.21	-	60.86	74.00	13.14
4 000.25 ¹⁾	H	73.45	33.00	-56.65	-	49.80	74.00	24.20
4 923.72 ¹⁾	V	60.73	33.97	-54.88	-	39.82	74.00	34.18
7 385.55 ¹⁾	V	60.88	35.40	-51.13	-	45.15	74.00	28.85
Average Data								
2 483.78 ¹⁾	V	47.36	32.07	-29.21	0.20	50.42	54.00	3.58

Average data (2 483.78 MHz)



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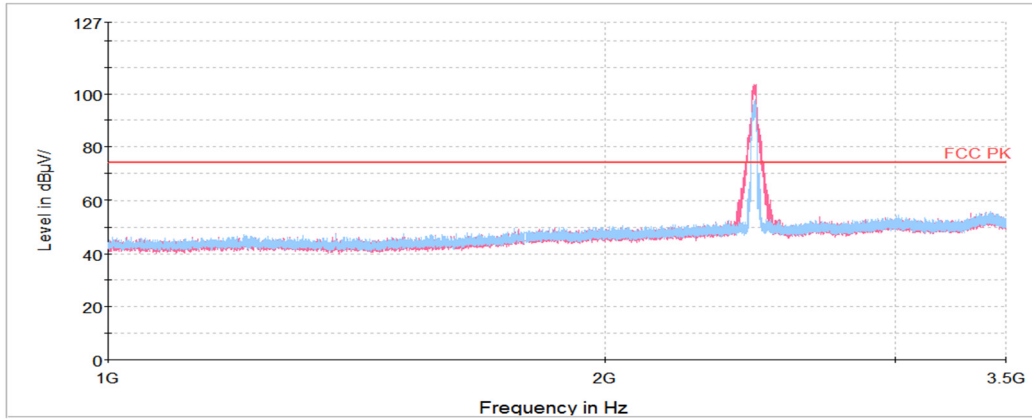
Horizontal/Vertical for Band-edge



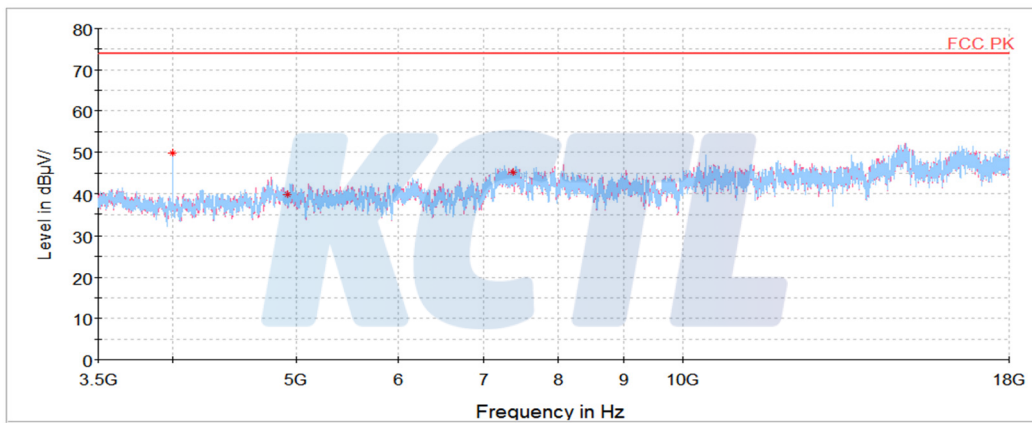
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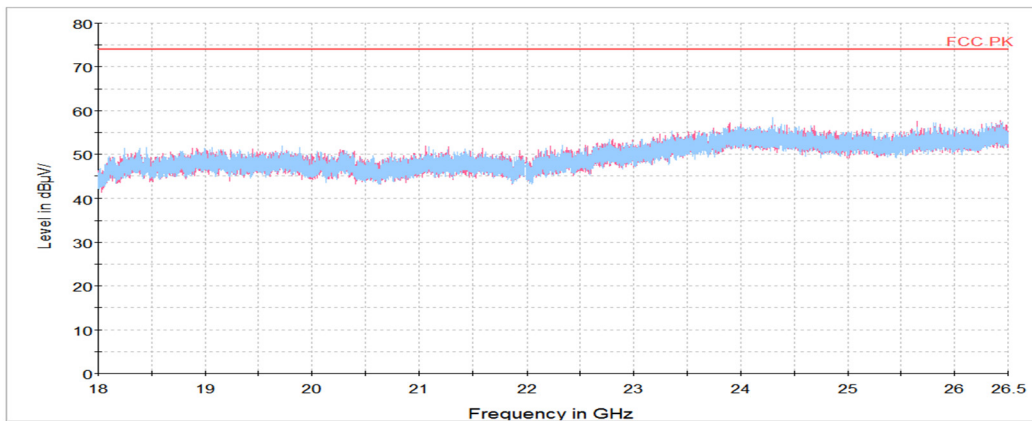
Horizontal/Vertical for 1 GHz ~ 3.5 GHz



Horizontal/Vertical for 3.5 GHz ~ 18 GHz



Horizontal/Vertical for 18 GHz ~ 26.5 GHz



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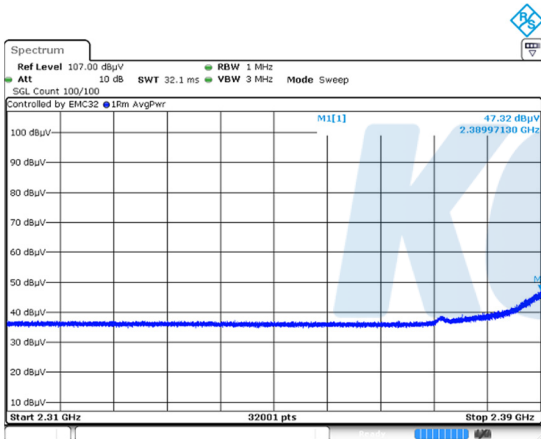


802.11n HT20 ANT 1

Lowest Channel (2 412 MHz)

Frequency	Pol.	Reading	Ant. Factor	Amp. + Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μ V))	(dB)	(dB)	(dB)	(dB(μ V/m))	(dB(μ V/m))	(dB)
Peak data								
2 389.93 ¹⁾	V	60.76	31.88	-29.04	-	63.60	74.00	10.40
4 000.25 ¹⁾	V	72.11	33.00	-56.65	-	48.46	74.00	25.54
4 824.94 ¹⁾	H	60.80	33.93	-52.85	-	41.88	74.00	32.12
7 236.92	V	62.80	35.40	-51.87	-	46.33	74.00	27.67
Average Data								
2 389.93 ¹⁾	V	47.32	31.88	-29.04	0.20	50.36	54.00	3.64

Average data (2 389.93 MHz)



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Horizontal/Vertical for Band-edge

