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KR18-SRF0051-B

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- 802.11ac VHT80

Lowest Channel (5 530 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μ V)]	Cable Loss [dB]	Amp Gain [dB]	Antenna Factor [dB]	Factor [dB]	DCCF [dB]	Result dB(μ V/m)]	Limit dB(μ V/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz											
1 657.08	1 000	V	61.69	3.10	-41.95	26.43	-12.42	-	49.27	68.20	18.93
2 796.61 ¹⁾	1 000	V	54.94	3.99	-41.92	29.31	-8.62	-	46.33	74.00	27.67
5 459.30 ¹⁾	1 000	H	60.71	5.76	-40.19	33.59	-0.84	-	59.86	74.00	14.14
11 050.41 ²⁾	1 000	V	61.87	7.94	-56.69	37.85	-10.90	-	50.97	74.00	23.03
16 580.83	1 000	H	58.03	11.97	-59.84	41.04	-6.83	-	51.20	68.20	17.00
38 711.63	1 000	V	41.55	16.30	-46.84	45.50	14.96	-	56.51	68.20	11.69
Average DATA. Emissions above 1 GHz											
2 796.61 ¹⁾	1 000	V	46.71	3.99	-41.92	29.31	-8.62	0.20	38.30	54.00	15.70
5 459.70 ¹⁾	1 000	H	49.36	5.76	-40.19	33.59	-0.84	0.20	48.72	54.00	5.28
11 050.41 ²⁾	1 000	V	50.55	7.94	-56.69	37.85	-10.90	0.20	39.86	54.00	14.14

Note. Factor = Cable loss + Amp. Gain + Antenna factor

Result = Reading + Factor + DCCF

¹⁾ Restricted band

²⁾ Harmonic

Highest Channel (5 610 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μ V)]	Cable Loss [dB]	Amp Gain [dB]	Antenna Factor [dB]	Factor [dB]	DCCF [dB]	Result dB(μ V/m)]	Limit dB(μ V/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz											
1 663.09 ¹⁾	1 000	V	59.88	3.10	-41.96	26.45	-12.41	-	47.47	74.00	26.53
2 793.17 ¹⁾	1 000	V	53.24	3.99	-41.91	29.31	-8.61	-	44.63	74.00	29.37
5 725.02	1 000	V	51.66	5.93	-40.76	33.99	-0.84	-	50.82	68.20	17.38
11 222.19 ²⁾	1 000	V	62.01	8.10	-56.66	38.00	-10.56	-	51.45	74.00	22.55
16 861.14	1 000	V	57.80	11.92	-59.02	41.37	-5.73	-	52.06	68.20	16.14
39 270.56	1 000	H	43.63	16.50	-45.54	45.60	16.56	-	60.19	68.20	8.01
Average DATA. Emissions above 1 GHz											
1 663.09 ¹⁾	1 000	V	45.41	3.10	-41.96	26.45	-12.41	0.20	33.20	54.00	20.80
2 793.17 ¹⁾	1 000	V	46.83	3.99	-41.91	29.31	-8.61	0.20	38.42	54.00	15.58
11 222.19 ²⁾	1 000	V	50.62	8.10	-56.66	38.00	-10.56	0.20	40.26	54.00	13.74

Note. Factor = Cable loss + Amp. Gain + Antenna factor

Result = Reading + Factor + DCCF

¹⁾ Restricted band

²⁾ Harmonic

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KCTL**5 690 MHz**

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μ V)]	Cable Loss [dB]	Amp Gain [dB]	Antenna Factor [dB]	Factor [dB]	DCCF [dB]	Result dB(μ V/m)	Limit dB(μ V/m)	Margin [dB]
Peak DATA. Emissions above 1 GHz											
1 692.48 ¹⁾	1 000	V	56.58	3.13	-42.07	26.57	-12.37	-	44.21	74.00	29.79
2 798.50 ¹⁾	1 000	V	55.69	3.99	-41.93	29.32	-8.62	-	47.07	74.00	26.93
5 850.31	1 000	H	50.40	6.01	-41.38	34.18	-1.19	-	49.21	68.20	18.99
11 384.27 ²⁾	1 000	H	60.60	8.26	-56.66	38.15	-10.25	-	50.35	74.00	23.65
17 097.25	1 000	H	56.59	11.91	-58.13	41.53	-4.69	-	51.89	68.20	16.31
39 833.63	1 000	H	42.19	16.60	-44.04	46.10	18.66	-	60.84	68.20	7.36
Average DATA. Emissions above 1 GHz											
1 692.48 ¹⁾	1 000	V	45.37	3.13	-42.07	26.57	-12.37	0.20	33.21	54.00	20.79
2 798.50 ¹⁾	1 000	V	46.75	3.99	-41.93	29.32	-8.62	0.20	38.34	54.00	15.66
11 384.27 ²⁾	1 000	H	49.88	8.26	-56.66	38.15	-10.25	0.20	39.84	54.00	14.16

Note. Factor = Cable loss + Amp. Gain + Antenna factor
Result = Reading + Factor + DCCF

¹⁾ Restricted band

²⁾ Harmonic

- Above 1 GHz data_U-NII-3

- 802.11a

Lowest Channel (5 745 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μ V)]	Cable Loss [dB]	Amp Gain [dB]	Antenna Factor [dB]	Factor [dB]	DCCF [dB]	Result dB(μ V/m)	Limit dB(μ V/m)	Margin [dB]
Peak DATA. Emissions above 1 GHz											
1 690.25 ¹⁾	1 000	V	57.13	3.13	-42.06	26.56	-12.37	-	44.76	74.00	29.24
2 796.44 ¹⁾	1 000	V	54.86	3.99	-41.92	29.31	-8.62	-	46.24	74.00	27.76
5 626.36	1 000	H	52.29	5.87	-41.37	33.84	-1.66	-	50.63	68.20	17.57
5 724.84	1 000	H	56.79	5.93	-40.76	33.99	-0.84	-	55.95	121.84	65.89
11 500.70 ²⁾	1 000	V	61.35	8.37	-56.65	38.26	-10.02	-	51.33	74.00	22.67
17 224.47	1 000	H	57.54	11.93	-57.50	41.53	-4.04	-	53.50	68.20	14.70
34 471.81	1 000	H	42.72	15.30	-49.53	49.80	15.57	-	58.30	68.20	9.90
Average DATA. Emissions above 1 GHz											
1 690.25 ¹⁾	1 000	V	45.21	3.13	-42.06	26.56	-12.37	-	32.84	54.00	21.16
2 796.44 ¹⁾	1 000	V	46.67	3.99	-41.92	29.31	-8.62	-	38.05	54.00	15.95
11 500.70 ²⁾	1 000	V	51.13	8.37	-56.65	38.26	-10.02	-	41.11	54.00	12.89

Note. Factor = Cable loss + Amp. Gain + Antenna factor
Result = Reading + Factor

¹⁾ Restricted band

²⁾ Harmonic

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KCTL-TIR001-003/2

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**Middle Channel (5 785 MHz)**

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μ V)]	Cable Loss [dB]	Amp Gain [dB]	Antenna Factor [dB]	Factor [dB]	DCCF [dB]	Result dB(μ V/m)]	Limit dB(μ V/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz											
1 647.97	1 000	V	54.17	3.09	-41.92	26.39	-12.44	-	41.73	68.20	26.47
2 800.22 ¹⁾	1 000	V	55.87	4.00	-41.93	29.32	-8.61	-	47.25	74.00	26.75
11 568.63 ²⁾	1 000	H	60.21	8.44	-56.79	38.32	-10.03	-	50.18	74.00	23.82
17 364.63	1 000	H	58.52	11.95	-56.81	41.54	-3.32	-	55.20	68.20	13.00
34 712.44	1 000	H	42.62	15.50	-49.56	49.90	15.84	-	58.46	68.20	9.74
Average DATA. Emissions above 1 GHz											
2 800.22 ¹⁾	1 000	V	46.63	4.00	-41.93	29.32	-8.61	-	38.02	54.00	15.98
11 568.63 ²⁾	1 000	H	50.05	8.44	-56.79	38.32	-10.03	-	40.02	54.00	13.98

Note. Factor = Cable loss + Amp. Gain + Antenna factor

Result = Reading + Factor

¹⁾ Restricted band

²⁾ Harmonic

Highest Channel (5 825 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μ V)]	Cable Loss [dB]	Amp Gain [dB]	Antenna Factor [dB]	Factor [dB]	DCCF [dB]	Result dB(μ V/m)]	Limit dB(μ V/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz											
1 681.83 ¹⁾	1 000	V	59.42	3.12	-42.03	26.53	-12.38	-	47.04	74.00	26.96
2 795.75 ¹⁾	1 000	V	54.41	3.99	-41.92	29.31	-8.62	-	45.79	74.00	28.21
5 853.23	1 000	V	50.97	6.01	-41.36	34.18	-1.17	-	49.79	114.83	65.03
5 999.67	1 000	V	52.91	6.10	-40.83	34.40	-0.33	-	52.59	68.20	15.61
11 645.17 ²⁾	1 000	V	59.31	8.51	-56.94	38.39	-10.04	-	49.27	74.00	24.73
17 467.77	1 000	V	57.72	11.97	-56.31	41.54	-2.80	-	54.93	68.20	13.27
34 948.94	1 000	H	42.79	15.70	-49.70	50.10	16.10	-	58.89	68.20	9.31
Average DATA. Emissions above 1 GHz											
1 681.83 ¹⁾	1 000	V	45.32	3.12	-42.03	26.53	-12.38	-	32.94	54.00	21.06
2 795.75 ¹⁾	1 000	V	46.72	3.99	-41.92	29.31	-8.62	-	38.10	54.00	15.90
11 645.17 ²⁾	1 000	V	49.15	8.51	-56.94	38.39	-10.04	-	39.11	54.00	14.89

Note. Factor = Cable loss + Amp. Gain + Antenna factor

Result = Reading + Factor

¹⁾ Restricted band

²⁾ Harmonic

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- 802.11n HT20

Lowest Channel (5 745 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μ V)]	Cable Loss [dB]	Amp Gain [dB]	Antenna Factor [dB]	Factor [dB]	DCCF [dB]	Result dB(μ V/m)]	Limit dB(μ V/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz											
1 682.86 ¹⁾	1 000	V	54.95	3.12	-42.03	26.53	-12.38	-	42.57	74.00	31.43
2 790.59 ¹⁾	1 000	V	54.37	3.99	-41.90	29.30	-8.61	-	45.76	74.00	28.24
5 629.63	1 000	H	52.57	5.87	-41.33	33.84	-1.62	-	50.95	68.20	17.25
5 724.33	1 000	V	57.69	5.93	-40.76	33.99	-0.84	-	56.85	120.67	63.81
11 489.92 ²⁾	1 000	H	59.60	8.36	-56.65	38.25	-10.04	-	49.55	74.00	24.45
17 231.66	1 000	H	57.57	11.93	-57.47	41.53	-4.01	-	53.56	68.20	14.64
34 470.44	1 000	H	42.06	15.30	-49.53	49.80	15.57	-	57.64	68.20	10.56
Average DATA. Emissions above 1 GHz											
1 682.86 ¹⁾	1 000	V	45.24	3.12	-42.03	26.53	-12.38	-	32.86	54.00	21.14
2 790.59 ¹⁾	1 000	V	46.66	3.99	-41.90	29.30	-8.61	-	38.05	54.00	15.95
11 489.92 ²⁾	1 000	H	49.83	8.36	-56.65	38.25	-10.04	-	39.79	54.00	14.21

Note. Factor = Cable loss + Amp. Gain + Antenna factor

Result = Reading + Factor

¹⁾ Restricted band

²⁾ Harmonic

Middle Channel (5 785 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μ V)]	Cable Loss [dB]	Amp Gain [dB]	Antenna Factor [dB]	Factor [dB]	DCCF [dB]	Result dB(μ V/m)]	Limit dB(μ V/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz											
1 654.84	1 000	V	57.90	3.09	-41.94	26.42	-12.43	-	45.47	68.20	22.73
2 797.98 ¹⁾	1 000	V	53.96	3.99	-41.93	29.32	-8.62	-	45.35	74.00	28.65
11 570.06 ²⁾	1 000	H	60.14	8.44	-56.79	38.32	-10.03	-	50.11	74.00	23.89
17 364.63	1 000	H	58.27	11.95	-56.81	41.54	-3.32	-	54.94	68.20	13.26
34 709.69	1 000	V	42.41	15.50	-49.57	49.90	15.83	-	58.25	68.20	9.95
Average DATA. Emissions above 1 GHz											
2 797.98 ¹⁾	1 000	V	46.71	3.99	-41.93	29.32	-8.62	-	38.09	54.00	15.91
11 570.06 ²⁾	1 000	H	49.45	8.44	-56.79	38.32	-10.03	-	39.42	54.00	14.58

Note. Factor = Cable loss + Amp. Gain + Antenna factor

Result = Reading + Factor

¹⁾ Restricted band

²⁾ Harmonic

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KCTL**Highest Channel (5 825 MHz)**

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μ V)]	Cable Loss [dB]	Amp Gain [dB]	Antenna Factor [dB]	Factor [dB]	DCCF [dB]	Result dB(μ V/m)	Limit dB(μ V/m)	Margin [dB]
Peak DATA. Emissions above 1 GHz											
1 650.89	1 000	V	56.43	3.09	-41.92	26.40	-12.43	-	43.99	68.20	24.21
2 799.02 ¹⁾	1 000	V	54.97	3.99	-41.93	29.32	-8.62	-	46.36	74.00	27.64
5 850.66	1 000	V	49.71	6.01	-41.38	34.18	-1.19	-	48.53	120.70	72.18
5 999.50	1 000	V	53.11	6.10	-40.83	34.40	-0.33	-	52.78	68.20	15.42
11 650.92 ²⁾	1 000	H	58.01	8.51	-56.95	38.40	-10.04	-	47.97	74.00	26.03
17 475.67	1 000	H	56.67	11.97	-56.27	41.54	-2.76	-	53.92	68.20	14.28
34 948.25	1 000	V	42.32	15.70	-49.70	50.10	16.10	-	58.41	68.20	9.79
Average DATA. Emissions above 1 GHz											
2 799.02 ¹⁾	1 000	V	46.59	3.99	-41.93	29.32	-8.62	-	37.97	54.00	16.03
11 650.92 ²⁾	1 000	H	48.59	8.51	-56.95	38.40	-10.04	-	38.55	54.00	15.45

Note. Factor = Cable loss + Amp. Gain + Antenna factor

Result = Reading + Factor

¹⁾ Restricted band

²⁾ Harmonic

- 802.11n HT40**Lowest Channel (5 755 MHz)**

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μ V)]	Cable Loss [dB]	Amp Gain [dB]	Antenna Factor [dB]	Factor [dB]	DCCF [dB]	Result dB(μ V/m)	Limit dB(μ V/m)	Margin [dB]
Peak DATA. Emissions above 1 GHz											
1 630.61	1 000	V	59.04	3.07	-41.85	26.32	-12.46	-	46.58	68.20	21.62
2 797.47 ¹⁾	1 000	V	55.23	3.99	-41.93	29.32	-8.62	-	46.62	74.00	27.38
5 630.14	1 000	V	51.52	5.87	-41.33	33.85	-1.61	-	49.91	68.20	18.29
5 720.89	1 000	H	60.27	5.92	-40.71	33.98	-0.81	-	59.46	112.83	53.37
11 512.56 ²⁾	1 000	H	58.68	8.38	-56.68	38.27	-10.03	-	48.66	74.00	25.34
17 261.48	1 000	H	57.16	11.94	-57.33	41.54	-3.85	-	53.31	68.20	14.89
34 532.31	1 000	H	43.63	15.30	-49.46	49.80	15.64	-	59.27	68.20	8.93
Average DATA. Emissions above 1 GHz											
2 797.47 ¹⁾	1 000	V	46.67	3.99	-41.93	29.32	-8.62	0.09	38.15	54.00	15.85
11 512.56 ²⁾	1 000	H	49.70	8.38	-56.68	38.27	-10.03	0.09	39.77	54.00	14.23

Note. Factor = Cable loss + Amp. Gain + Antenna factor

Result = Reading + Factor + DCCF

¹⁾ Restricted band

²⁾ Harmonic

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**Highest Channel (5 795 MHz)**

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μ V)]	Cable Loss [dB]	Amp Gain [dB]	Antenna Factor [dB]	Factor [dB]	DCCF [dB]	Result dB(μ V/m)	Limit dB(μ V/m)	Margin [dB]
Peak DATA. Emissions above 1 GHz											
1 627.34	1 000	V	55.98	3.07	-41.85	26.31	-12.47	-	43.51	68.20	24.69
2 797.13 ¹⁾	1 000	V	54.86	3.99	-41.92	29.31	-8.62	-	46.24	74.00	27.76
5 887.09	1 000	H	51.25	6.03	-41.24	34.23	-0.98	-	50.27	96.25	45.98
5 999.67	1 000	V	53.68	6.10	-40.83	34.40	-0.33	-	53.35	68.20	14.85
11 589.83 ²⁾	1 000	V	58.64	8.46	-56.84	38.34	-10.04	-	48.61	74.00	25.39
17 385.11	1 000	V	56.09	11.96	-56.72	41.54	-3.22	-	52.87	68.20	15.33
34 770.19	1 000	V	41.72	15.50	-49.60	50.00	15.90	-	57.62	68.20	10.58
Average DATA. Emissions above 1 GHz											
2 797.13 ¹⁾	1 000	V	46.63	3.99	-41.92	29.31	-8.62	0.09	38.11	54.00	15.89
11 589.83 ²⁾	1 000	V	48.81	8.46	-56.84	38.34	-10.04	0.09	38.87	54.00	15.13

Note. Factor = Cable loss + Amp. Gain + Antenna factor

Result = Reading + Factor + DCCF

¹⁾ Restricted band

²⁾ Harmonic

- 802.11ac VHT20**Lowest Channel (5 745 MHz)**

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μ V)]	Cable Loss [dB]	Amp Gain [dB]	Antenna Factor [dB]	Factor [dB]	DCCF [dB]	Result dB(μ V/m)	Limit dB(μ V/m)	Margin [dB]
Peak DATA. Emissions above 1 GHz											
1 691.45 ¹⁾	1 000	V	56.61	3.13	-42.07	26.57	-12.37	-	44.25	74.00	29.75
2 798.16 ¹⁾	1 000	V	54.83	3.99	-41.93	29.32	-8.62	-	46.21	74.00	27.79
5 639.94	1 000	H	52.29	5.87	-41.20	33.86	-1.47	-	50.82	68.20	17.38
5 724.67	1 000	H	56.58	5.93	-40.76	33.99	-0.84	-	55.74	121.45	65.71
11 439.61 ²⁾	1 000	H	59.46	8.31	-56.65	38.20	-10.14	-	49.32	74.00	24.68
17 235.25	1 000	V	55.10	11.94	-57.46	41.53	-3.99	-	51.12	68.20	17.08
34 471.13	1 000	V	43.38	15.30	-49.53	49.80	15.57	-	58.95	68.20	9.25
Average DATA. Emissions above 1 GHz											
1 691.45 ¹⁾	1 000	V	45.37	3.13	-42.07	26.57	-12.37	-	33.00	54.00	21.00
2 798.16 ¹⁾	1 000	V	46.72	3.99	-41.93	29.32	-8.62	-	38.10	54.00	15.90
11 439.61 ²⁾	1 000	H	48.98	8.31	-56.65	38.20	-10.14	-	38.84	54.00	15.16

Note. Factor = Cable loss + Amp. Gain + Antenna factor

Result = Reading + Factor

¹⁾ Restricted band

²⁾ Harmonic

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**Middle Channel (5 785 MHz)**

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μ V)]	Cable Loss [dB]	Amp Gain [dB]	Antenna Factor [dB]	Factor [dB]	DCCF [dB]	Result dB(μ V/m)]	Limit dB(μ V/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz											
1 662.41 ¹⁾	1 000	V	59.01	3.10	-41.96	26.45	-12.41	-	46.60	74.00	27.40
2 794.89 ¹⁾	1 000	V	57.64	3.99	-41.91	29.31	-8.61	-	49.02	74.00	24.98
11 570.06 ²⁾	1 000	H	58.70	8.44	-56.79	38.32	-10.03	-	48.67	74.00	25.33
17 354.92	1 000	V	57.44	11.95	-56.86	41.54	-3.37	-	54.07	68.20	14.13
34 715.88	1 000	V	42.93	15.50	-49.56	49.90	15.84	-	58.78	68.20	9.42
Average DATA. Emissions above 1 GHz											
1 662.41 ¹⁾	1 000	V	45.31	3.10	-41.96	26.45	-12.41	-	32.90	54.00	21.10
2 794.89 ¹⁾	1 000	V	46.62	3.99	-41.91	29.31	-8.61	-	38.01	54.00	15.99
11 570.06 ²⁾	1 000	H	49.28	8.44	-56.79	38.32	-10.03	-	39.25	54.00	14.75

Note. Factor = Cable loss + Amp. Gain + Antenna factor

Result = Reading + Factor

¹⁾ Restricted band

²⁾ Harmonic

Highest Channel (5 825 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μ V)]	Cable Loss [dB]	Amp Gain [dB]	Antenna Factor [dB]	Factor [dB]	DCCF [dB]	Result dB(μ V/m)]	Limit dB(μ V/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz											
1 686.64 ¹⁾	1 000	V	56.76	3.13	-42.06	26.55	-12.38	-	44.38	74.00	29.62
2 800.05 ¹⁾	1 000	V	54.99	4.00	-41.94	29.32	-8.62	-	46.37	74.00	27.63
5 864.58	1 000	H	52.89	6.01	-41.32	34.20	-1.11	-	51.79	108.12	56.33
5 934.02	1 000	V	52.98	6.06	-41.06	34.30	-0.70	-	52.27	68.20	15.93
11 661.70 ²⁾	1 000	H	61.34	8.53	-56.98	38.41	-10.04	-	51.29	74.00	22.71
17 474.95	1 000	H	57.13	11.97	-56.27	41.54	-2.76	-	54.37	68.20	13.83
34 951.69	1 000	H	42.80	15.70	-49.70	50.10	16.10	-	58.90	68.20	9.30
Average DATA. Emissions above 1 GHz											
1 686.64 ¹⁾	1 000	V	45.23	3.13	-42.06	26.55	-12.38	-	32.85	54.00	21.15
2 800.05 ¹⁾	1 000	V	46.68	4.00	-41.94	29.32	-8.62	-	38.06	54.00	15.94
11 661.70 ²⁾	1 000	H	48.86	8.53	-56.98	38.41	-10.04	-	38.82	54.00	15.18

Note. Factor = Cable loss + Amp. Gain + Antenna factor

Result = Reading + Factor

¹⁾ Restricted band

²⁾ Harmonic

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www.kctl.co.kr

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**- 802.11ac VHT40****Lowest Channel (5 755 MHz)**

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μ V)]	Cable Loss [dB]	Amp Gain [dB]	Antenna Factor [dB]	Factor [dB]	DCCF [dB]	Result dB(μ V/m)]	Limit dB(μ V/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz											
1 701.08 ¹⁾	1 000	V	58.53	3.14	-42.09	26.60	-12.35	-	46.18	74.00	27.82
2 792.31 ¹⁾	1 000	V	54.22	3.99	-41.91	29.31	-8.61	-	45.60	74.00	28.40
5 635.13	1 000	H	51.20	5.87	-41.26	33.85	-1.54	-	49.66	68.20	18.54
5 719.86	1 000	H	59.84	5.92	-40.70	33.98	-0.80	-	59.05	110.76	51.71
11 512.20 ²⁾	1 000	H	59.67	8.38	-56.68	38.27	-10.03	-	49.65	74.00	24.35
17 266.88	1 000	H	56.24	11.94	-57.30	41.54	-3.82	-	52.42	68.20	15.78
34 532.31	1 000	V	44.22	15.30	-49.46	49.80	15.64	-	59.86	68.20	8.34
Average DATA. Emissions above 1 GHz											
1 701.08 ¹⁾	1 000	V	45.37	3.14	-42.09	26.60	-12.35	0.09	33.11	54.00	20.89
2 792.31 ¹⁾	1 000	V	46.63	3.99	-41.91	29.31	-8.61	0.09	38.11	54.00	15.89
11 512.20 ²⁾	1 000	H	49.15	8.38	-56.68	38.27	-10.03	0.09	39.21	54.00	14.79

Note. Factor = Cable loss + Amp. Gain + Antenna factor

Result = Reading + Factor + DCCF

¹⁾ Restricted band

²⁾ Harmonic

Highest Channel (5 795 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μ V)]	Cable Loss [dB]	Amp Gain [dB]	Antenna Factor [dB]	Factor [dB]	DCCF [dB]	Result dB(μ V/m)]	Limit dB(μ V/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz											
1 721.88 ¹⁾	1 000	V	55.54	3.16	-42.11	26.69	-12.26	-	43.27	74.00	30.73
2 789.73 ¹⁾	1 000	V	54.83	3.99	-41.90	29.30	-8.61	-	46.21	74.00	27.79
5 871.80	1 000	H	52.80	6.02	-41.29	34.21	-1.06	-	51.74	106.10	54.36
5 939.00	1 000	H	53.51	6.06	-41.05	34.31	-0.68	-	52.83	68.20	15.37
11 590.19 ²⁾	1 000	H	57.54	8.46	-56.84	38.34	-10.04	-	47.50	74.00	26.50
17 375.77	1 000	H	58.14	11.96	-56.77	41.54	-3.27	-	54.88	68.20	13.32
34 769.50	1 000	V	41.61	15.50	-49.60	50.00	15.90	-	57.51	68.20	10.69
Average DATA. Emissions above 1 GHz											
1 721.88 ¹⁾	1 000	V	45.33	3.16	-42.11	26.69	-12.26	0.09	33.16	54.00	20.84
2 789.73 ¹⁾	1 000	V	46.64	3.99	-41.90	29.30	-8.61	0.09	38.12	54.00	15.88
11 590.19 ²⁾	1 000	H	48.72	8.46	-56.84	38.34	-10.04	0.09	38.77	54.00	15.23

Note. Factor = Cable loss + Amp. Gain + Antenna factor

Result = Reading + Factor + DCCF

¹⁾ Restricted band

²⁾ Harmonic

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- 802.11ac VHT80

Middle Channel (5 775 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μ V)]	Cable Loss [dB]	Amp Gain [dB]	Antenna Factor [dB]	Factor [dB]	DCCF [dB]	Result dB(μ V/m)]	Limit dB(μ V/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz											
1 678.91 ¹⁾	1 000	V	54.28	3.12	-42.03	26.52	-12.39	-	41.89	74.00	32.11
2 797.30 ¹⁾	1 000	V	54.83	3.99	-41.92	29.31	-8.62	-	46.21	74.00	27.79
5 647.50	1 000	H	51.85	5.88	-41.12	33.87	-1.37	-	50.48	68.20	17.72
5 714.88	1 000	H	63.26	5.92	-40.65	33.97	-0.76	-	62.51	109.37	46.86
5 851.86	1 000	H	54.78	6.01	-41.37	34.18	-1.18	-	53.61	117.96	64.36
5 933.50	1 000	H	53.63	6.06	-41.07	34.30	-0.71	-	52.92	68.20	15.28
11 551.38 ²⁾	1 000	V	58.50	8.42	-56.76	38.31	-10.03	-	48.47	74.00	25.53
17 325.45	1 000	V	56.60	11.95	-57.01	41.54	-3.52	-	53.08	68.20	15.12
34 650.56	1 000	V	42.44	15.40	-49.53	49.90	15.77	-	58.21	68.20	9.99
Average DATA. Emissions above 1 GHz											
1 678.91 ¹⁾	1 000	V	45.37	3.12	-42.03	26.52	-12.39	0.20	33.18	54.00	20.82
2 797.30 ¹⁾	1 000	V	46.71	3.99	-41.92	29.31	-8.62	0.20	38.30	54.00	15.70
11 551.38 ²⁾	1 000	V	48.94	8.42	-56.76	38.31	-10.03	0.20	39.11	54.00	14.89

Note. Factor = Cable loss + Amp. Gain + Antenna factor

Result = Reading + Factor + DCCF

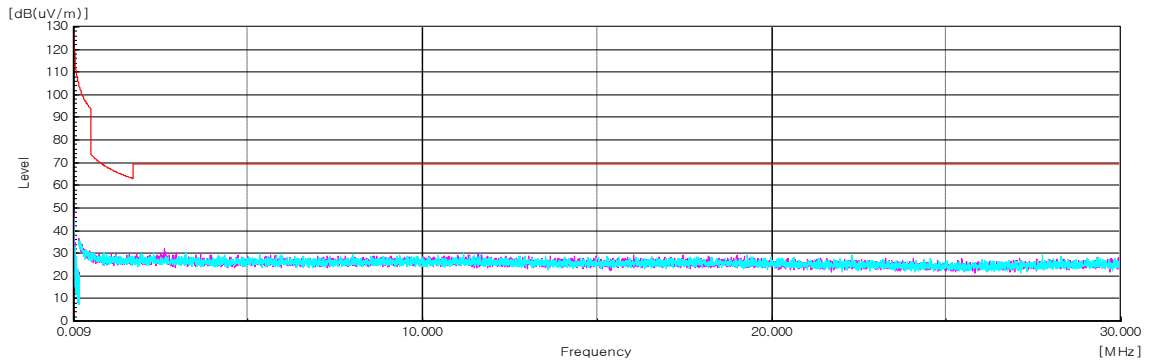
¹⁾ Restricted band

²⁾ Harmonic

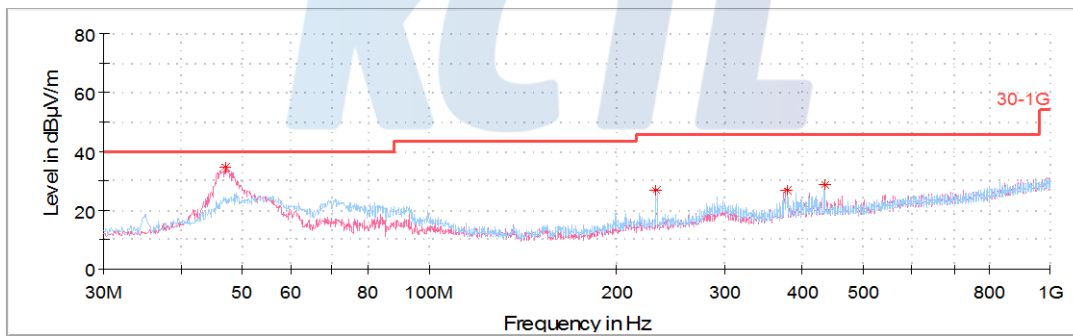
5.2.4.1 Test Plot

Figure 1. Plot of the Spurious Emissions (Radiated)

- 9 kHz ~ 30 MHz data



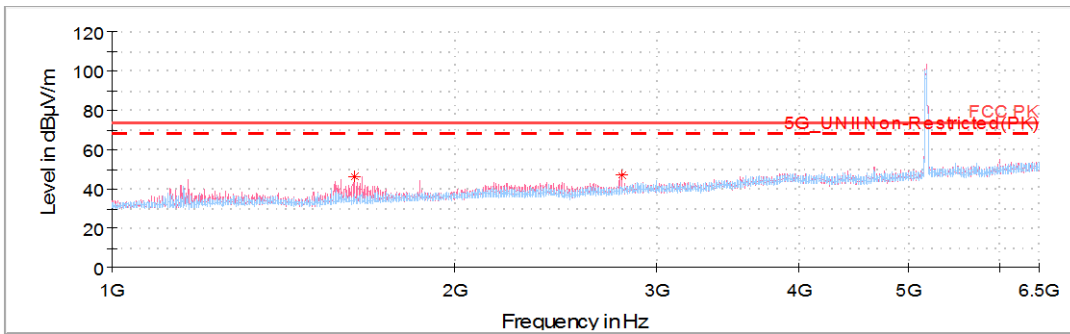
- 30 MHz ~ 1 GHz data



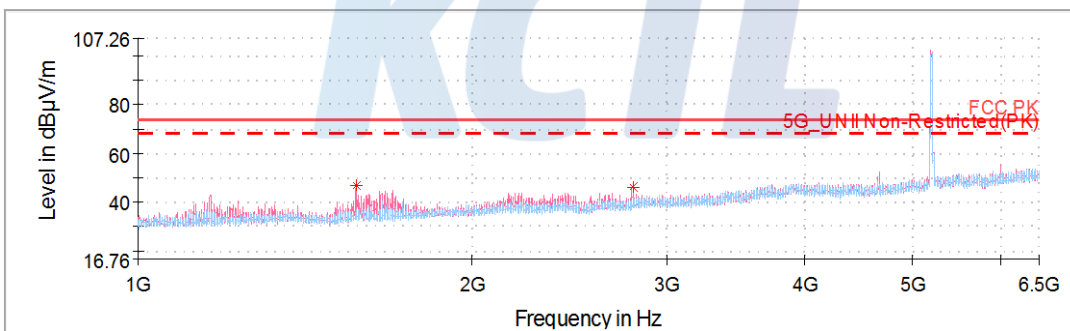
- 1 GHz ~ 6.5 GHz data_U-NII-1

- 802.11a

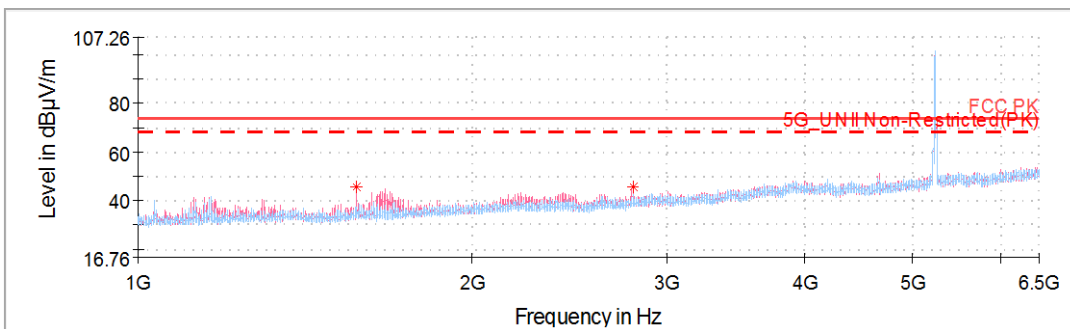
Lowest Channel (5 180 MHz)



Middle Channel (5 200 MHz)

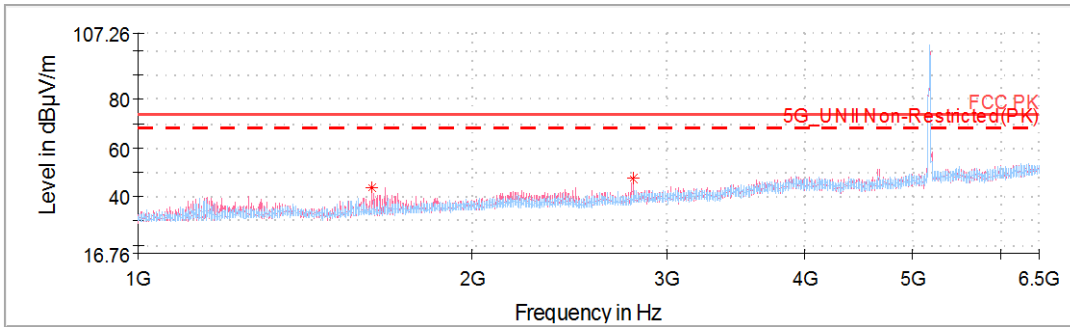


Highest Channel (5 240 MHz)

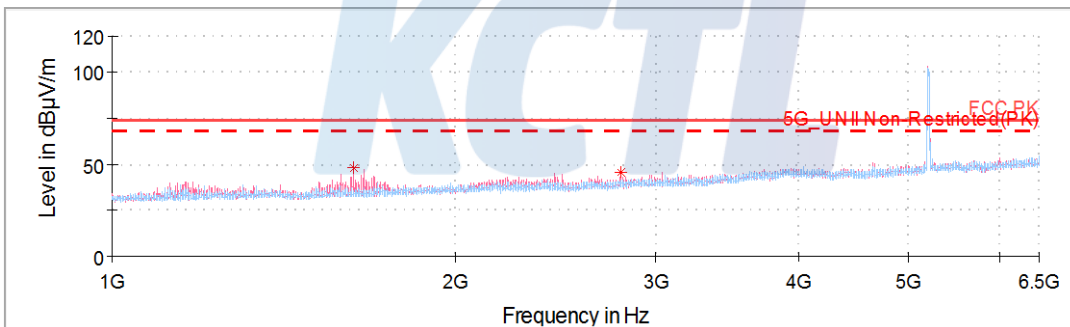


- 802.11n HT20

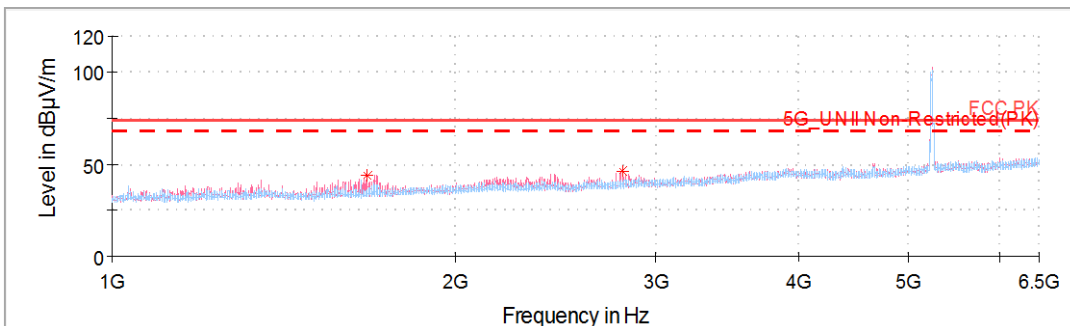
Lowest Channel (5 180 MHz)



Middle Channel (5 200 MHz)

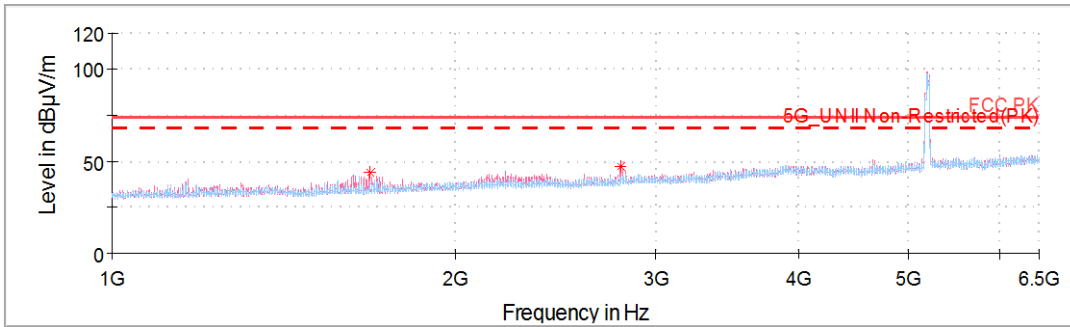


Highest Channel (5 240 MHz)

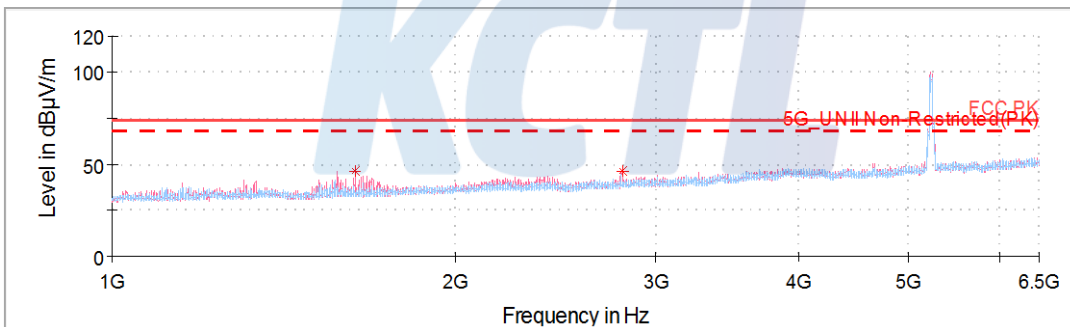


- 802.11n HT40

Lowest Channel (5 190 MHz)

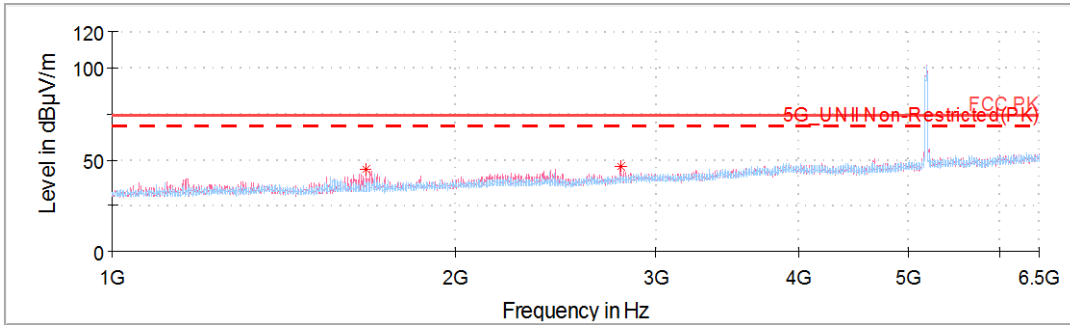


Highest Channel (5 230 MHz)

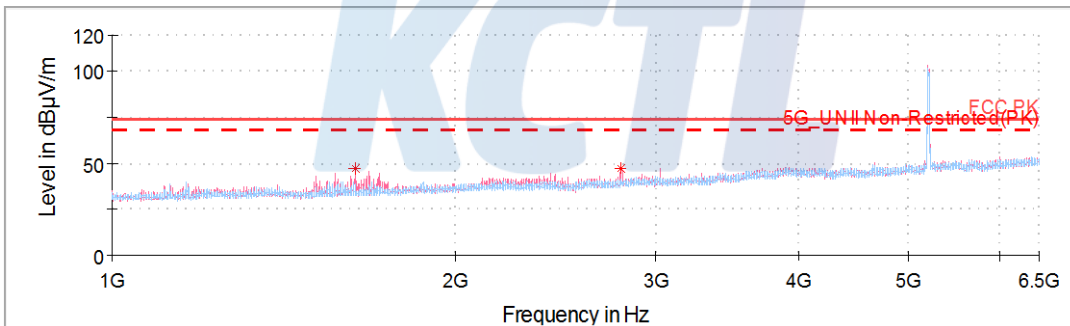


- 802.11ac VHT20

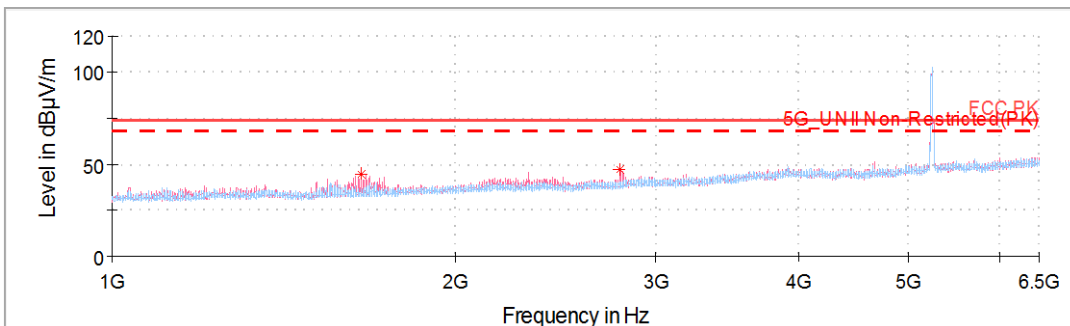
Lowest Channel (5 180 MHz)



Middle Channel (5 200 MHz)

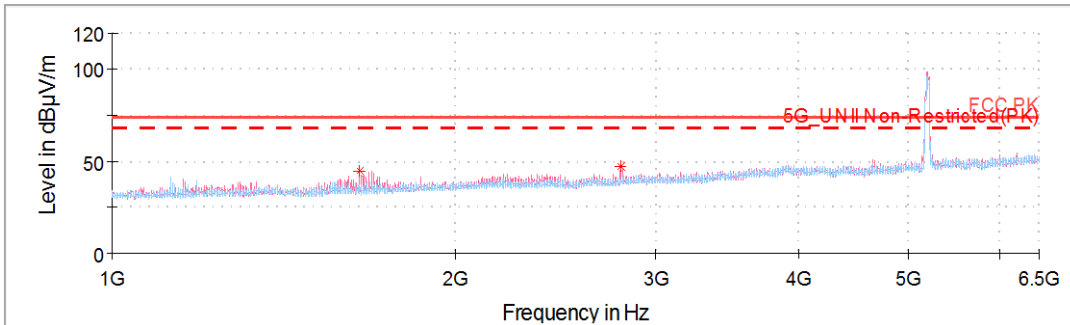


Highest Channel (5 240 MHz)

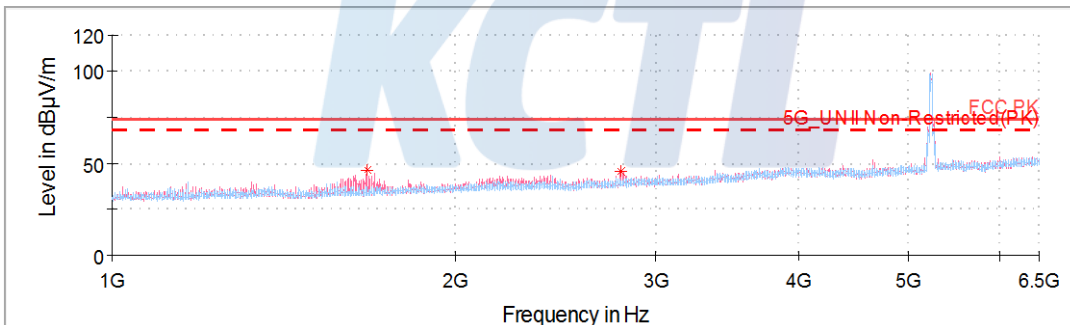


- 802.11ac VHT40

Lowest Channel (5 190 MHz)

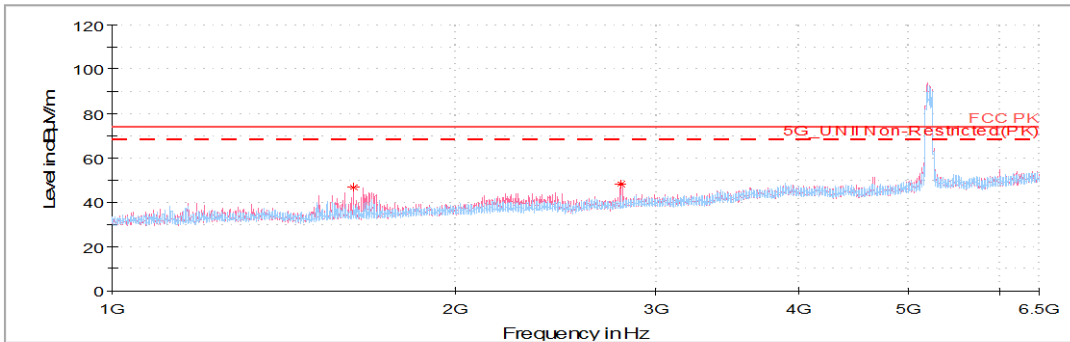


Highest Channel (5 230 MHz)



- 802.11ac VHT80

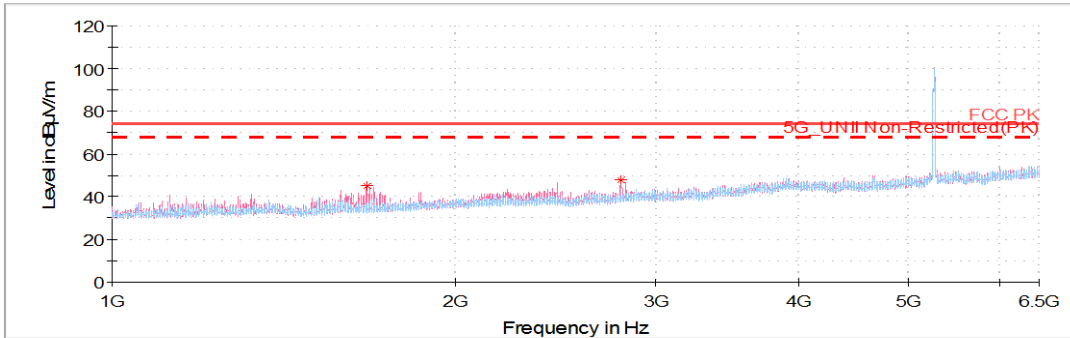
Middle Channel (5 210 MHz)



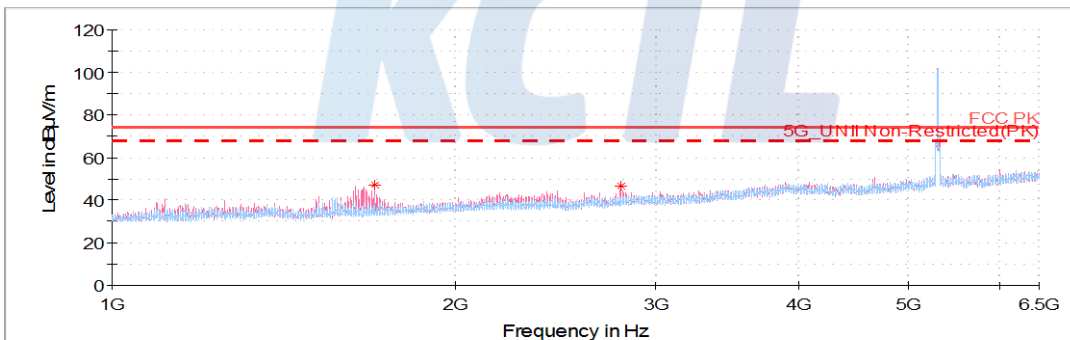
- 1 GHz ~ 6.5 GHz data_U-NII-2A

- 802.11a

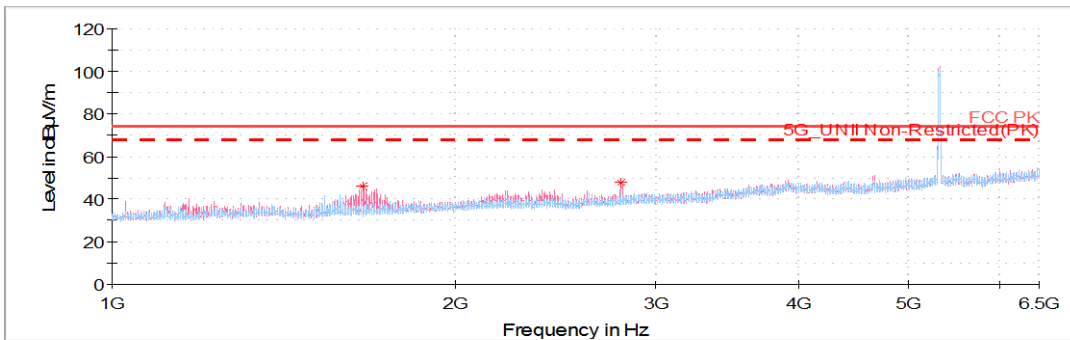
Lowest Channel (5 260 MHz)



Middle Channel (5 300 MHz)

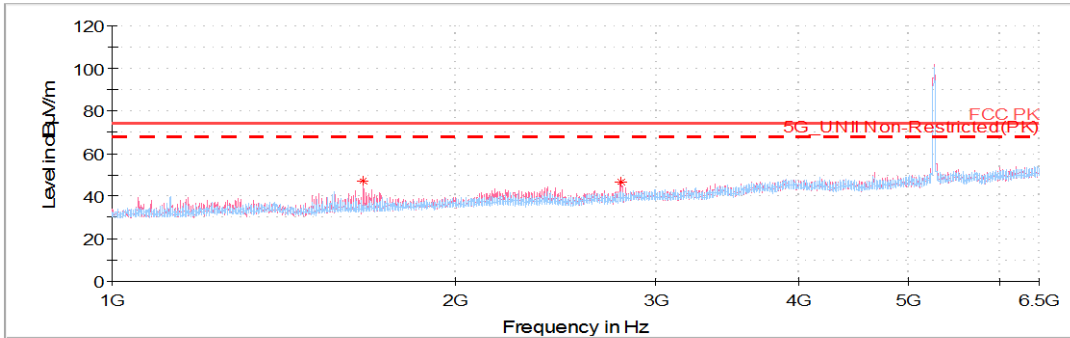


Highest Channel (5 320 MHz)

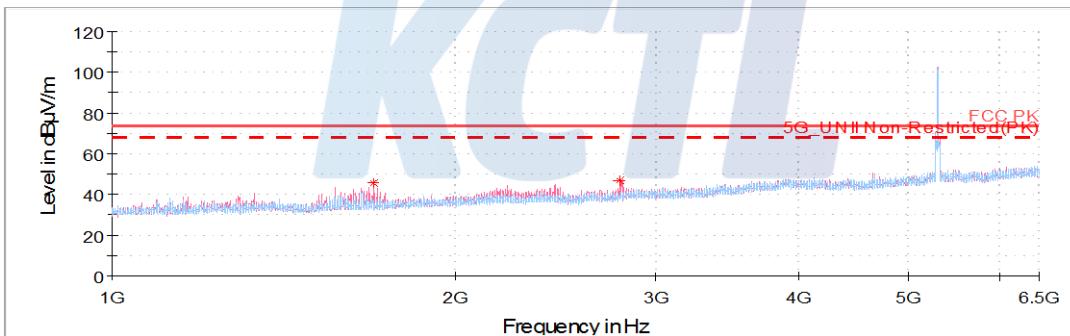


- 802.11n HT20

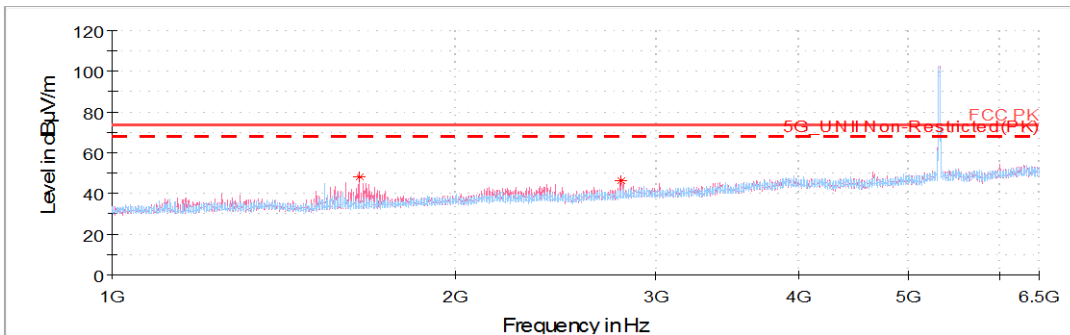
Lowest Channel (5 260 MHz)



Middle Channel (5 300 MHz)

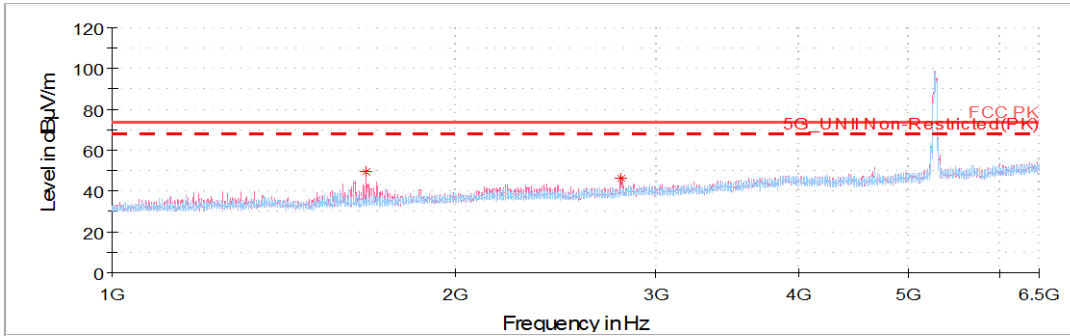


Highest Channel (5 320 MHz)

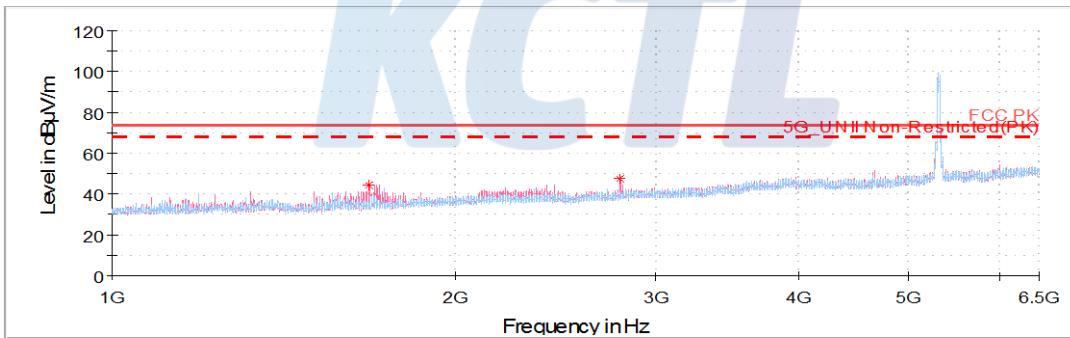


- 802.11n HT40

Lowest Channel (5 270 MHz)

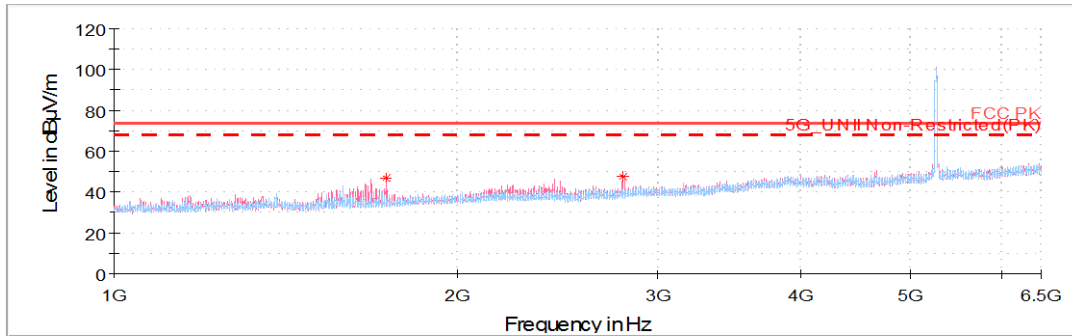


Highest Channel (5 310 MHz)

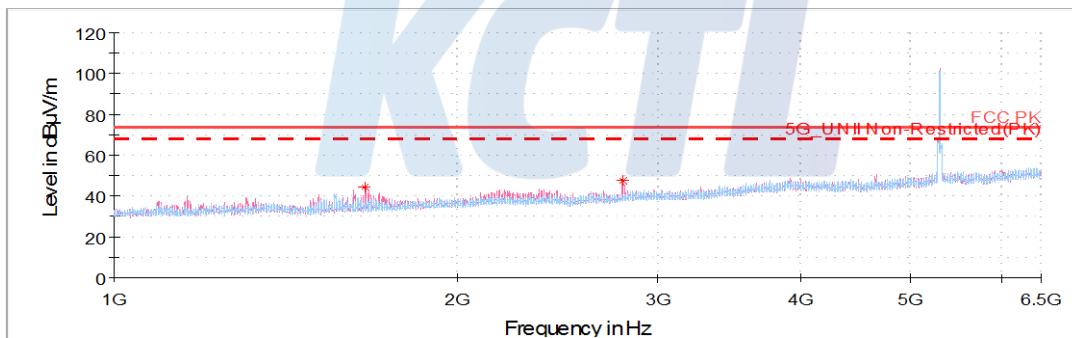


- 802.11ac VHT20

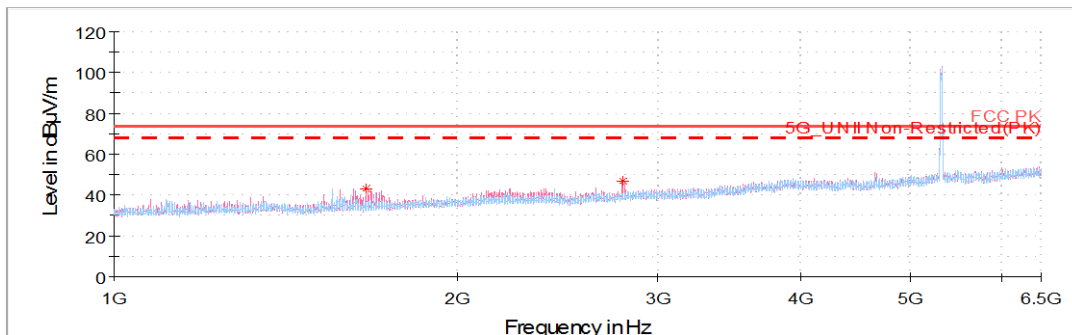
Lowest Channel (5 260 MHz)



Middle Channel (5 300 MHz)

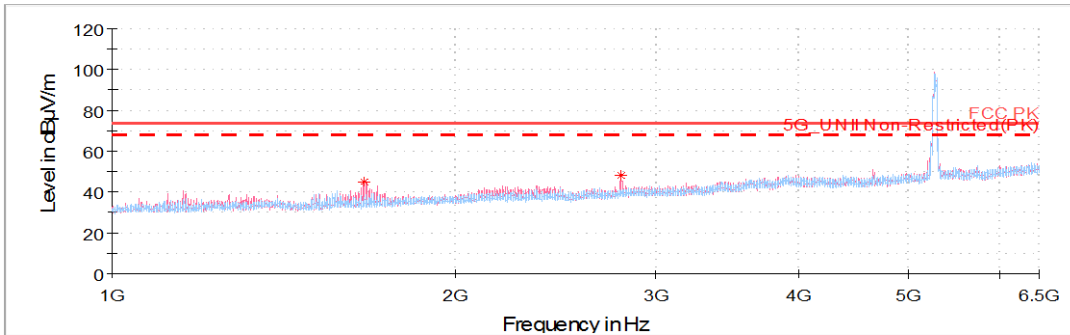


Highest Channel (5 320 MHz)

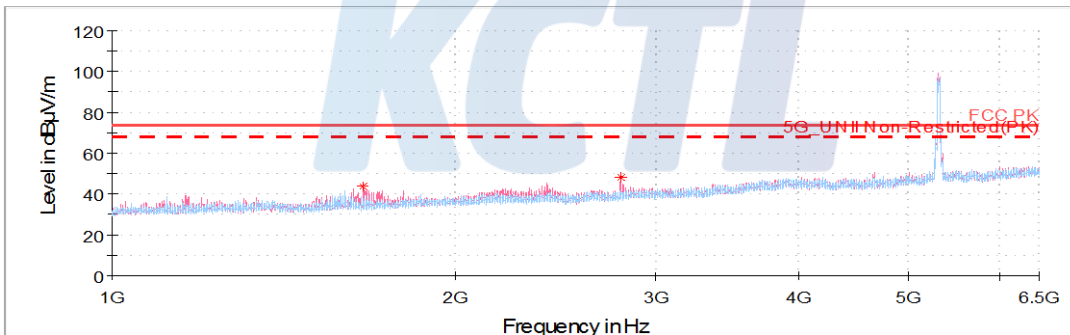


- 802.11ac VHT40

Lowest Channel (5 270 MHz)

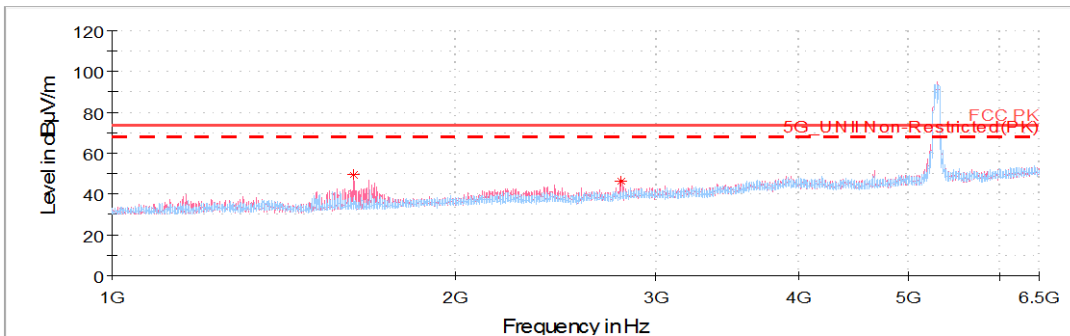


Highest Channel (5 310 MHz)



- 802.11ac VHT80

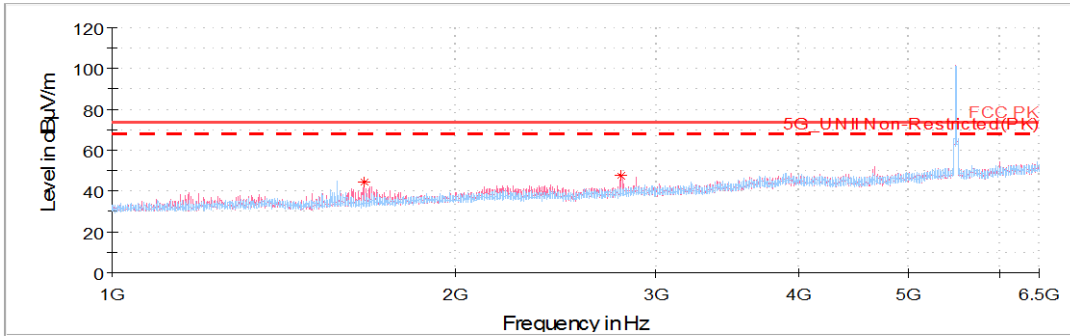
Middle Channel (5 290 MHz)



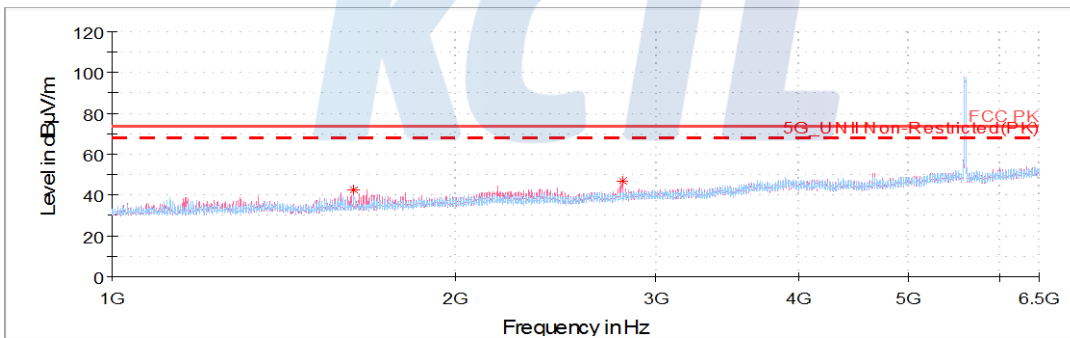
- 1 GHz ~ 6.5 GHz data_U-NII-2C

- 802.11a

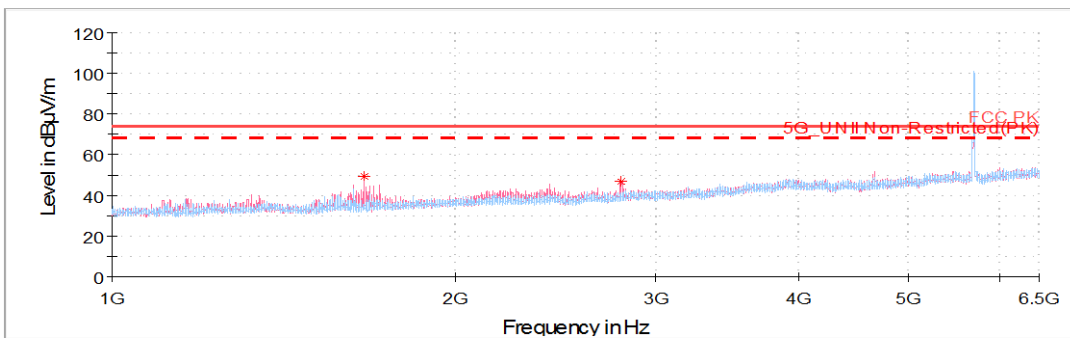
Lowest Channel (5 500 MHz)



Middle Channel (5 600 MHz)

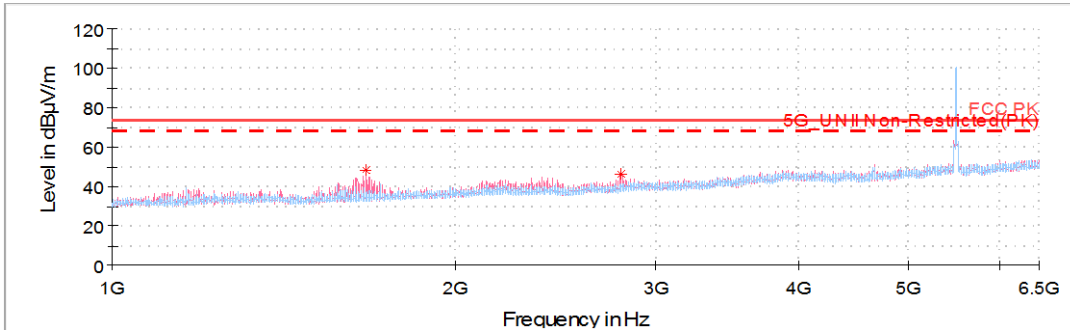


Highest Channel (5 700 MHz)

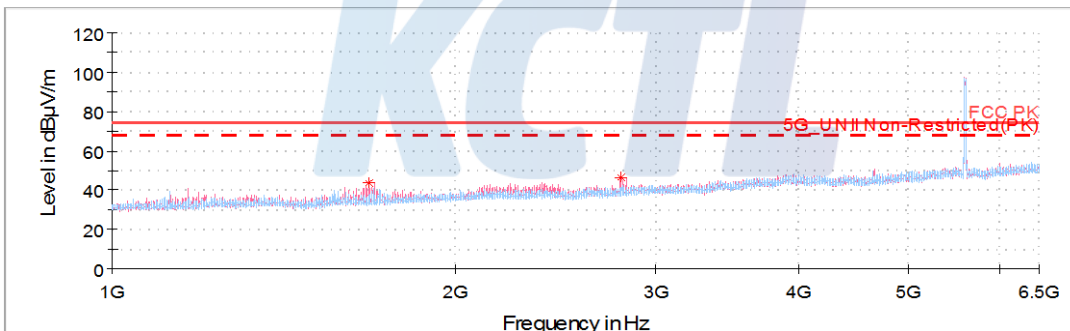


- 802.11n HT20

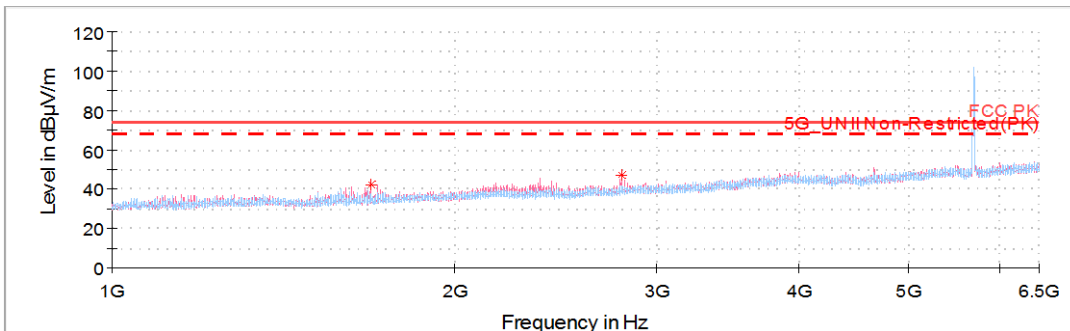
Lowest Channel (5 500 MHz)



Middle Channel (5 600 MHz)

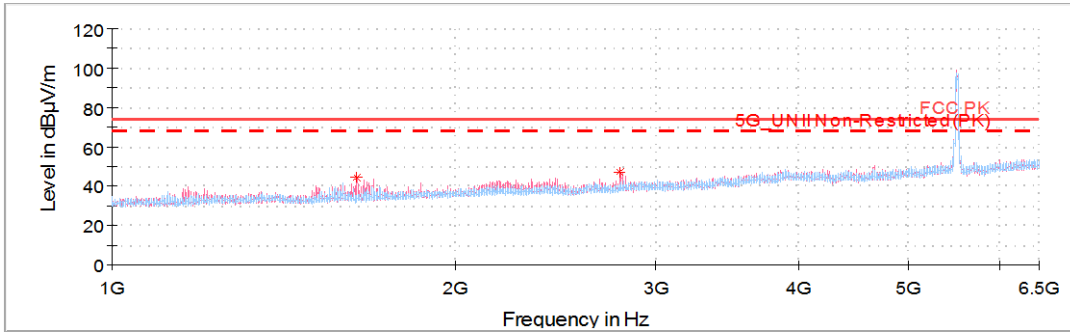


Highest Channel (5 700 MHz)

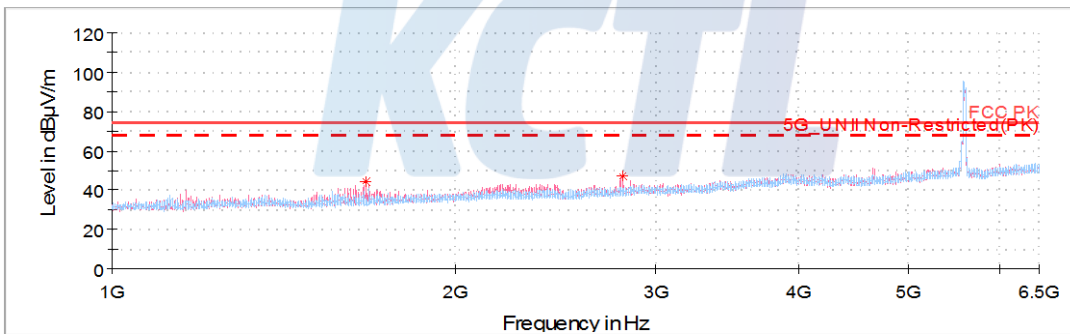


- 802.11n HT40

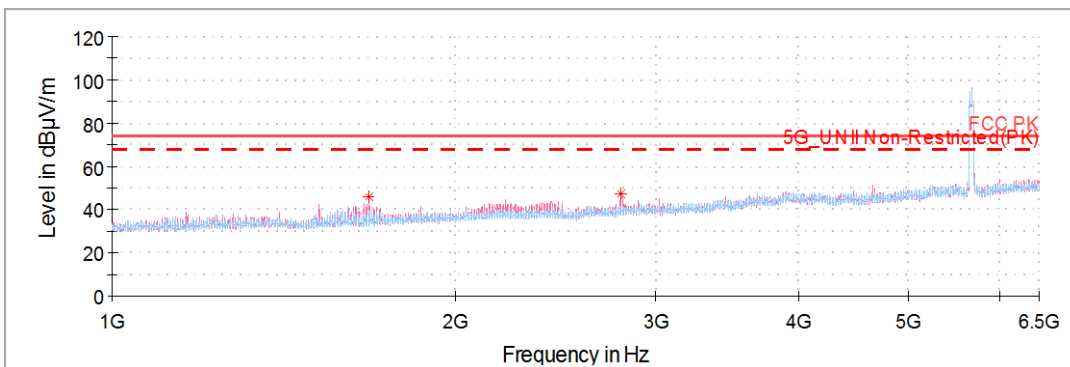
Lowest Channel (5 510 MHz)



Middle Channel (5 590 MHz)

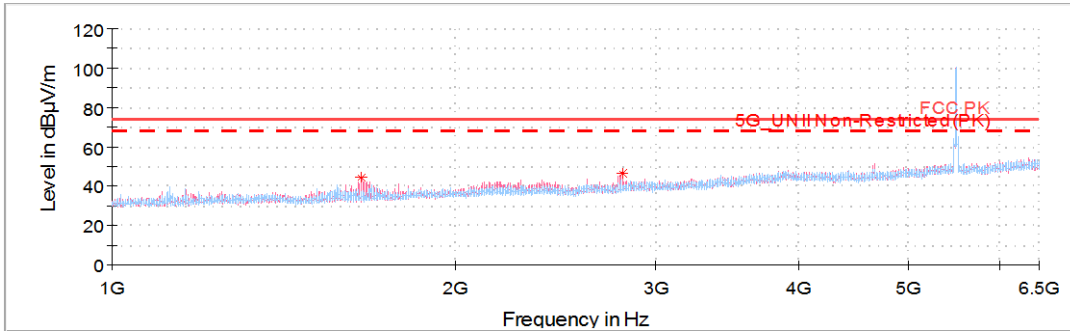


Highest Channel (5 670 MHz)

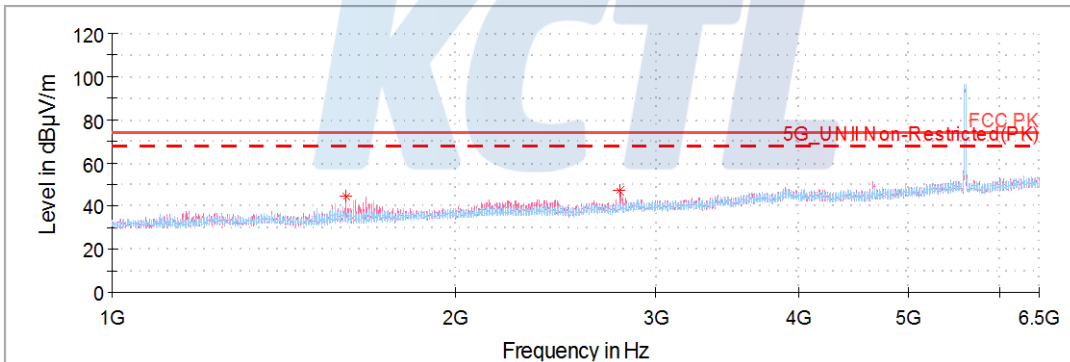


- 802.11ac VHT20

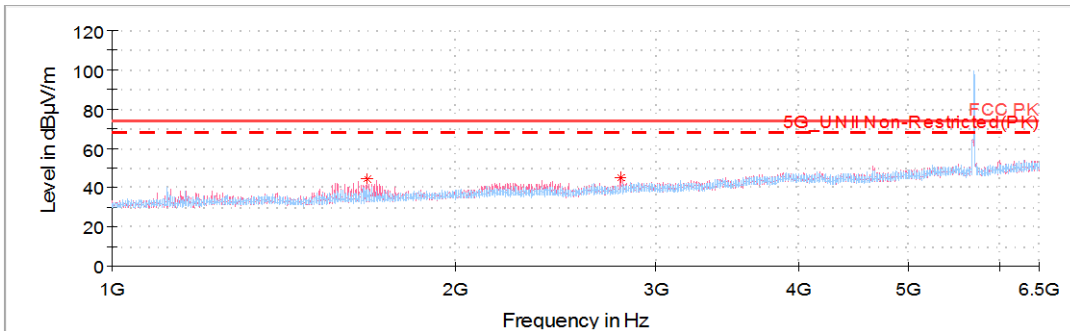
Lowest Channel (5 500 MHz)



Middle Channel (5 600 MHz)

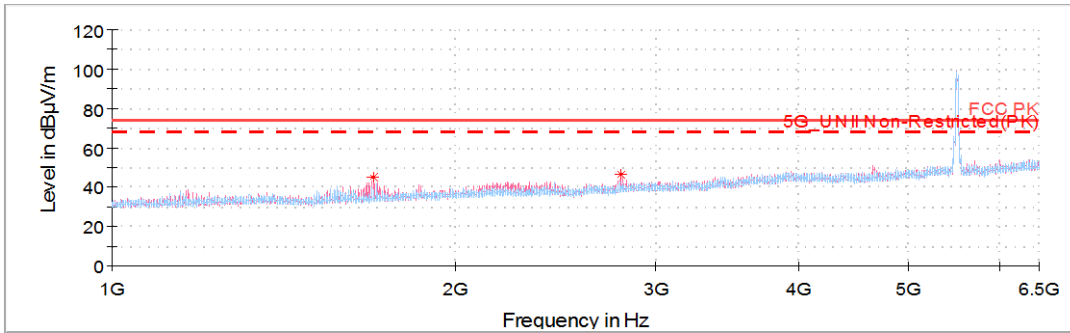


Highest Channel (5 700 MHz)

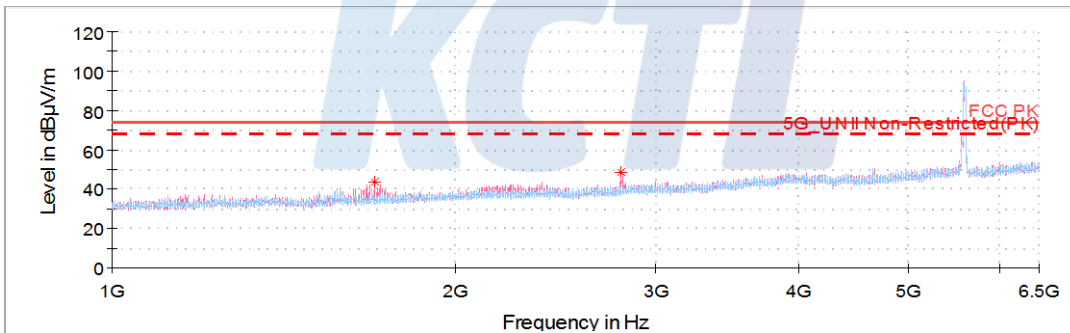


- 802.11ac VHT40

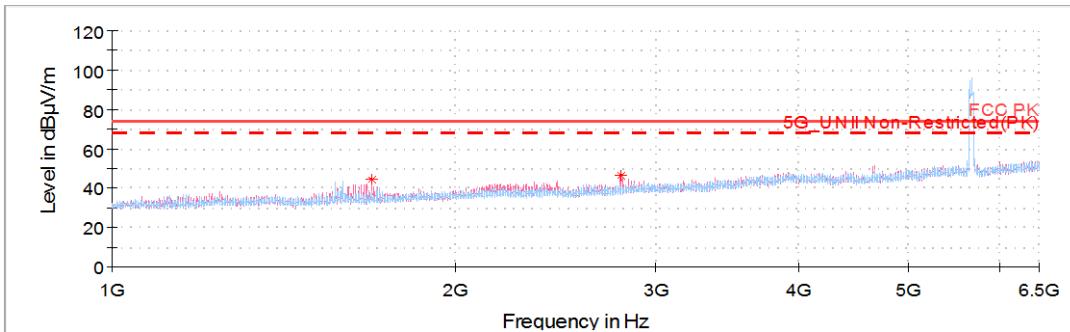
Lowest Channel (5 510 MHz)



Middle Channel (5 590 MHz)

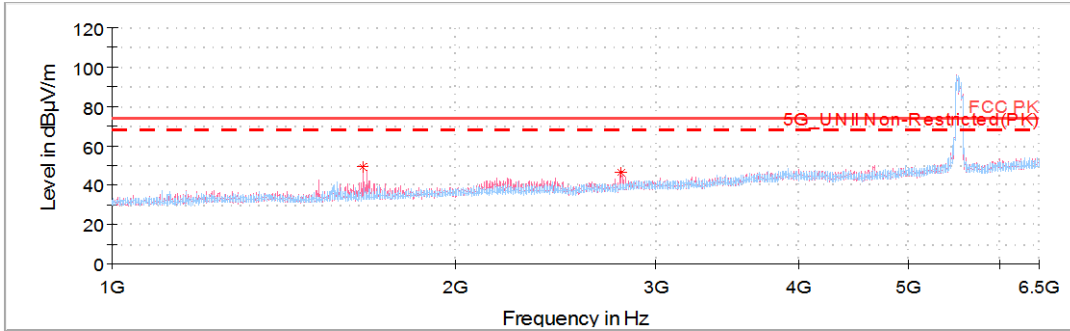


Highest Channel (5 670 MHz)

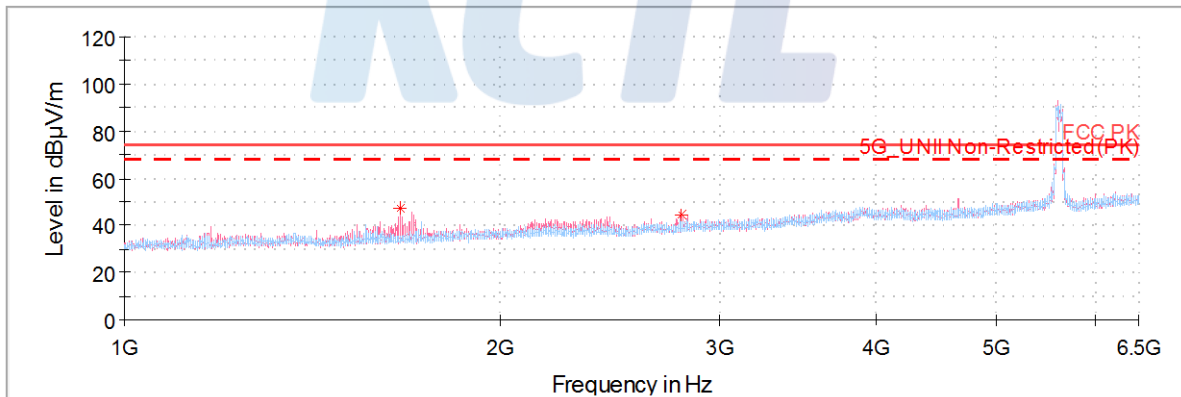


- 802.11ac VHT80

Lowest Channel (5 530 MHz)

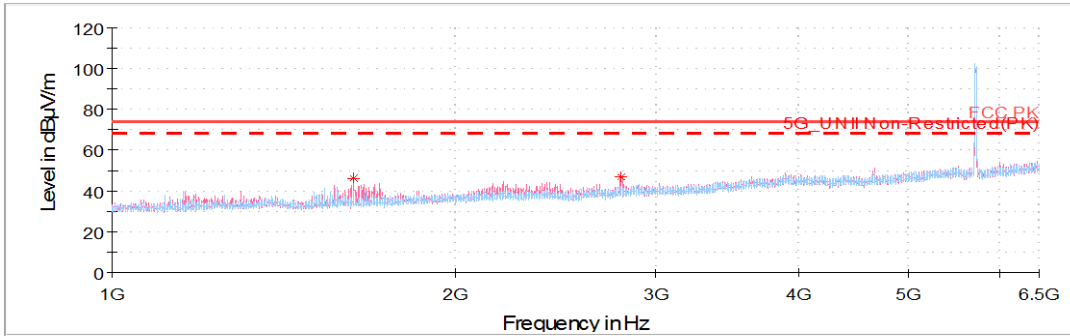


Highest Channel (5 610 MHz)



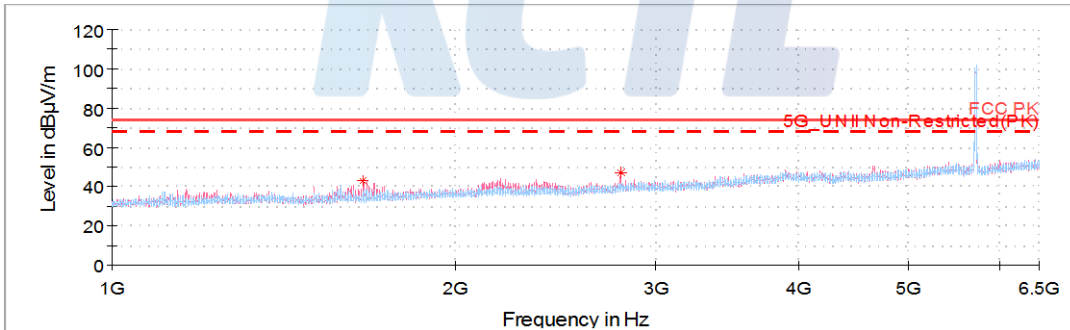
- 802.11a

5 720 MHz



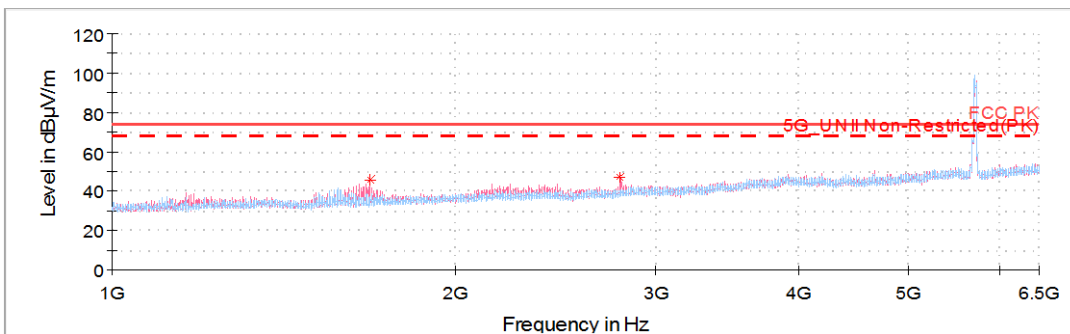
- 802.11n HT20

5 720 MHz



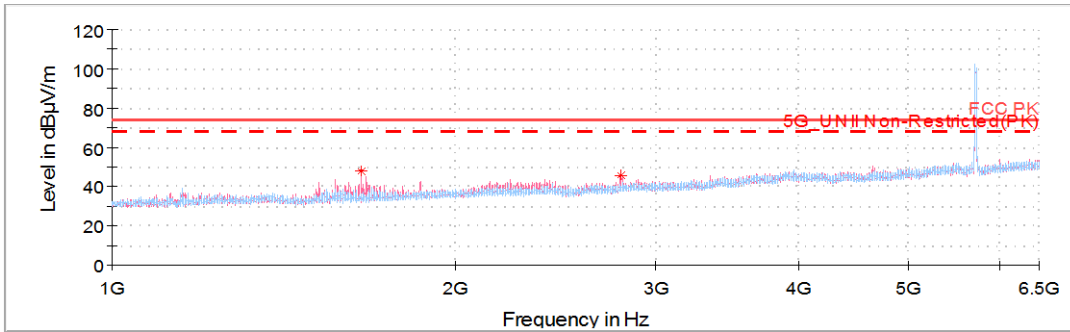
- 802.11n HT40

5 710 MHz



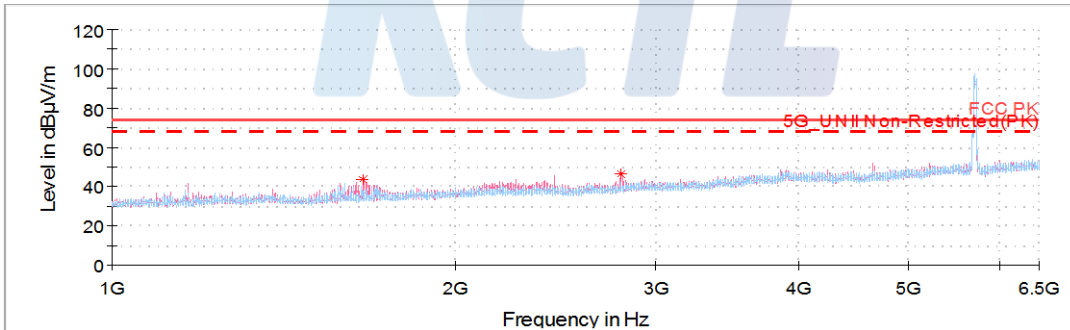
- 802.11ac VHT20

5 720 MHz



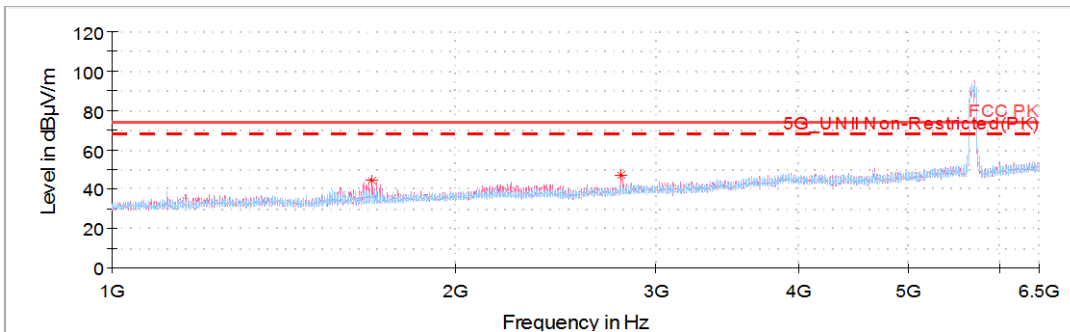
- 802.11ac VHT40

5 710 MHz



- 802.11ac VHT80

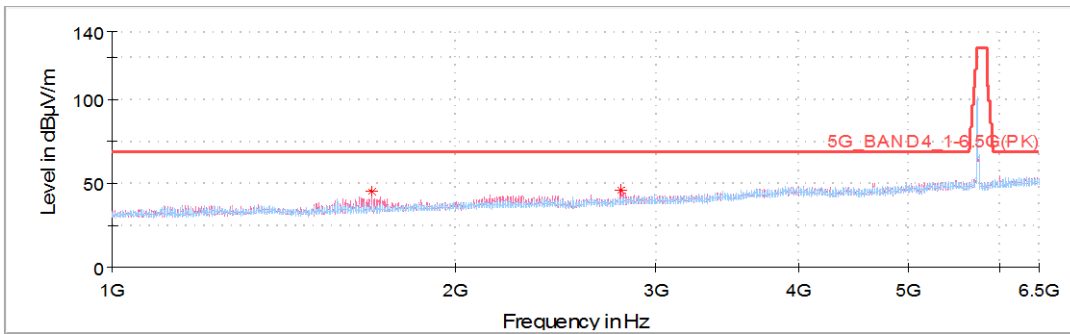
5 690 MHz



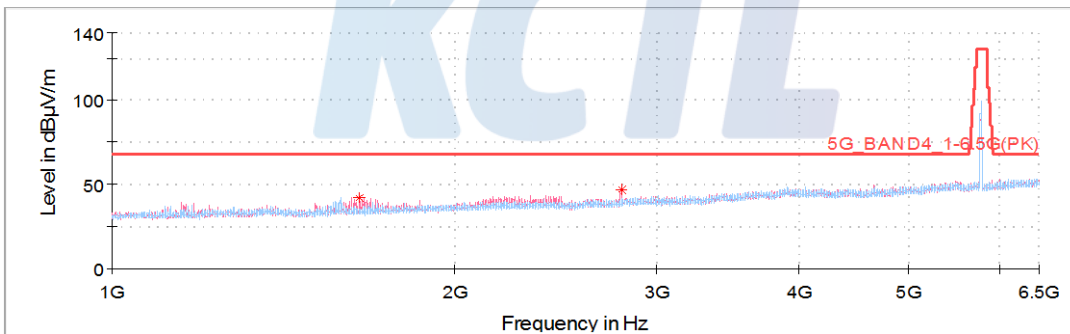
- 1 GHz ~ 6.5 GHz data_U-NII-3

- 802.11a

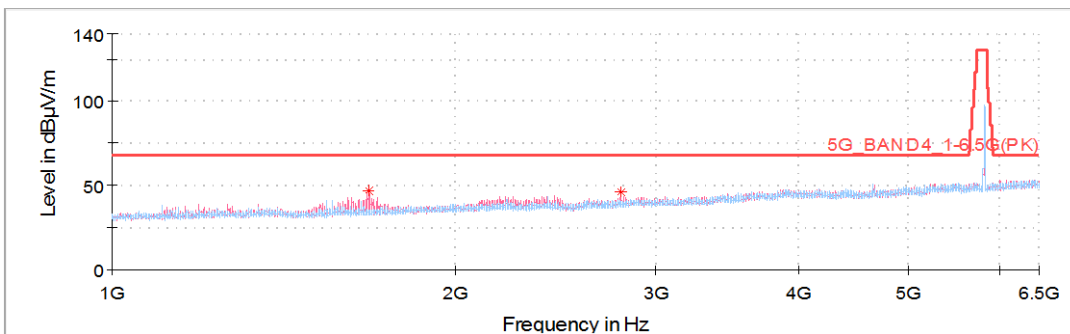
Lowest Channel (5 745 MHz)



Middle Channel (5 785 MHz)

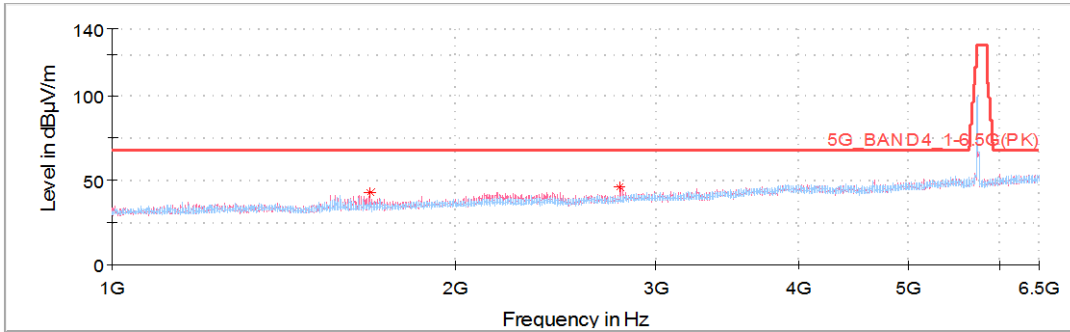


Highest Channel (5 825 MHz)

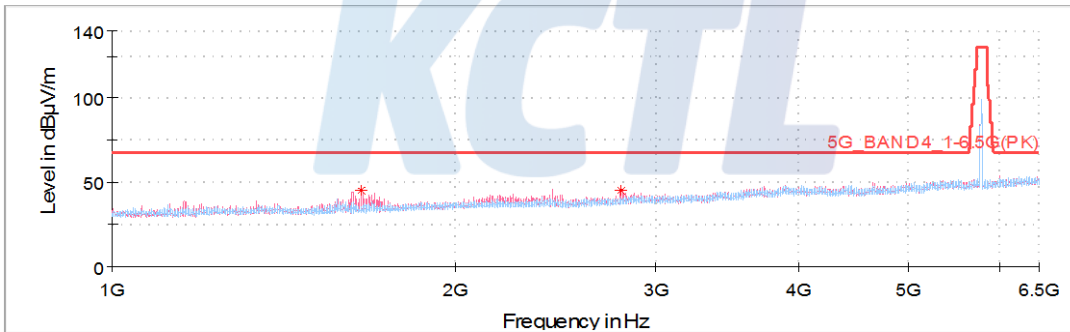


- 802.11n HT20

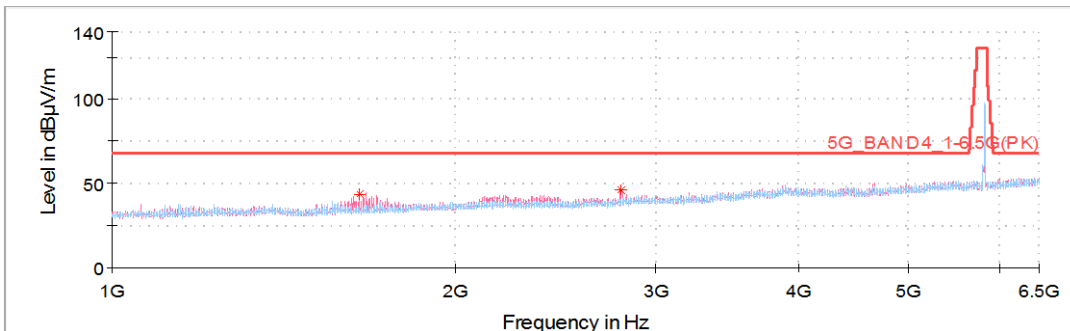
Lowest Channel (5 745 MHz)



Middle Channel (5 785 MHz)

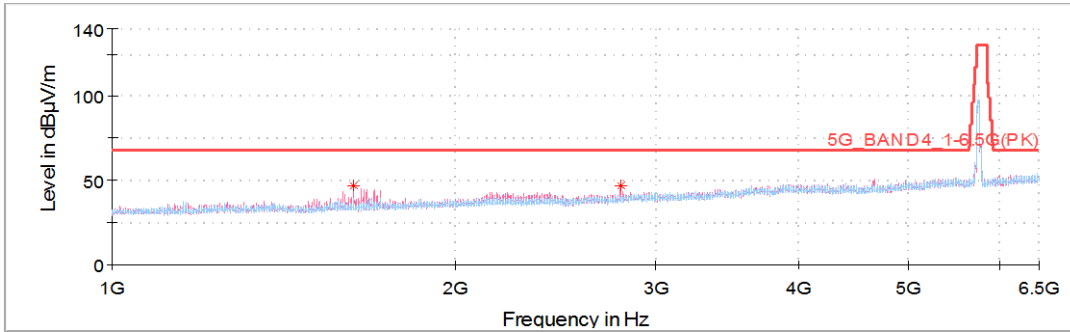


Highest Channel (5 825 MHz)

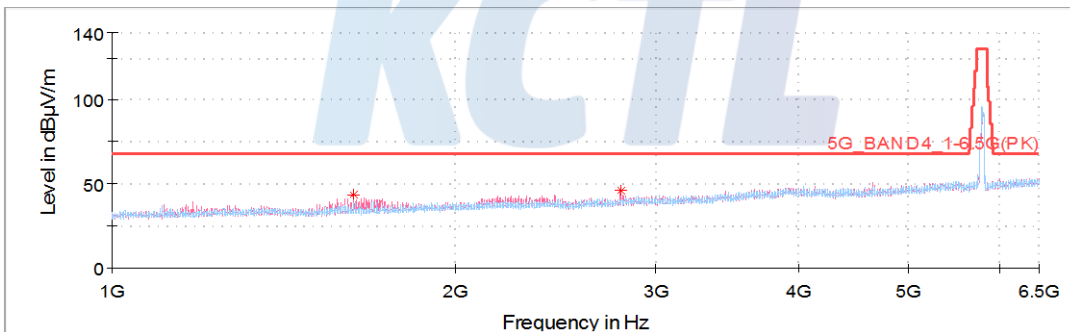


- 802.11n HT40

Lowest Channel (5 755 MHz)

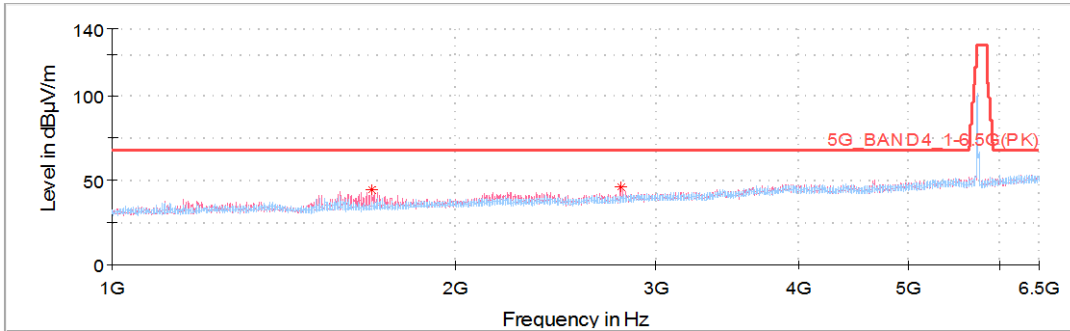


Highest Channel (5 795 MHz)

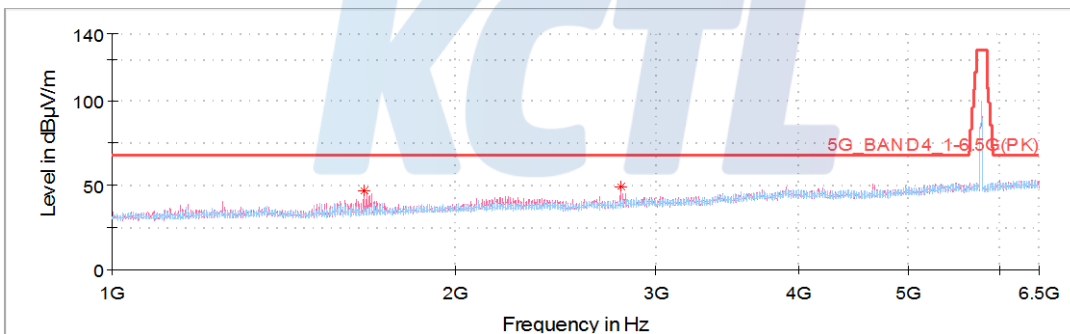


- 802.11ac VHT20

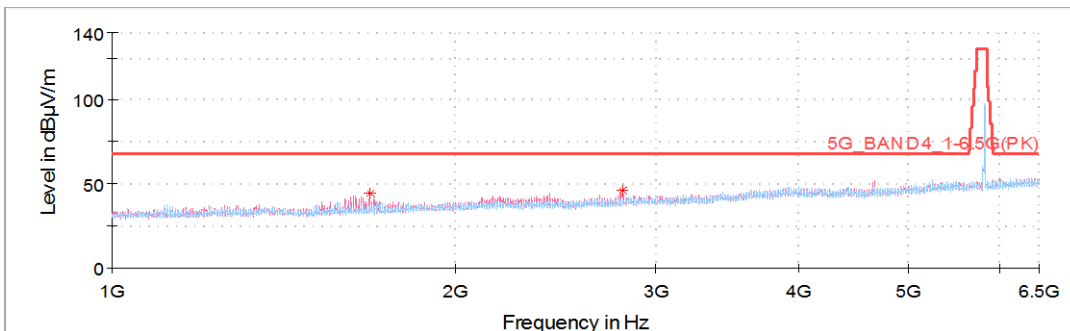
Lowest Channel (5 745 MHz)



Middle Channel (5 785 MHz)

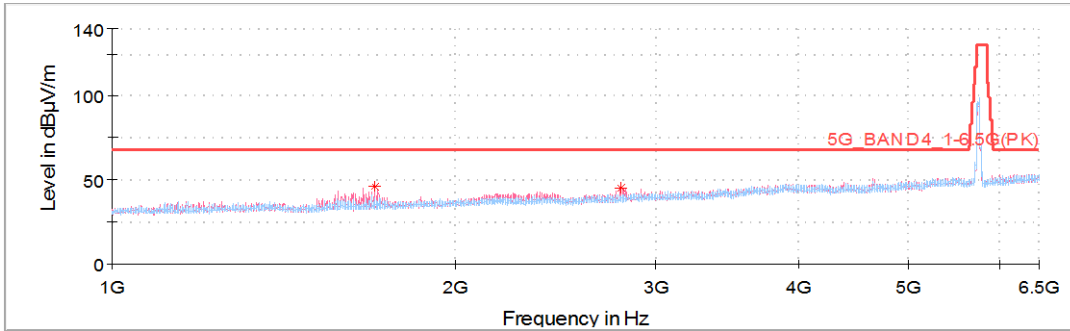


Highest Channel (5 825 MHz)

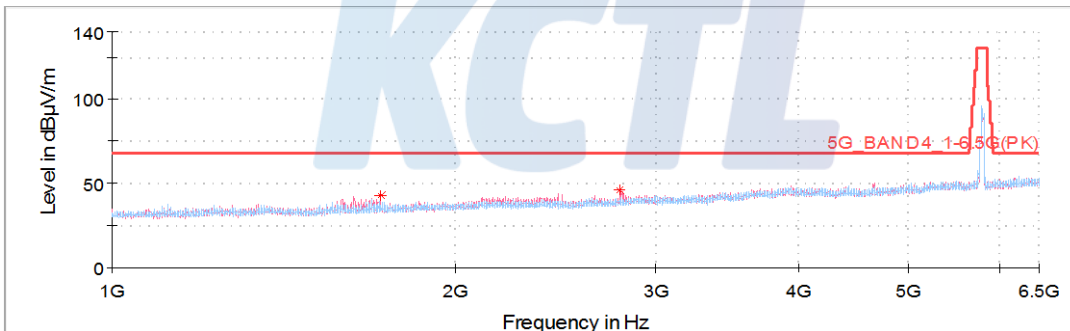


- 802.11ac VHT40

Lowest Channel (5 755 MHz)

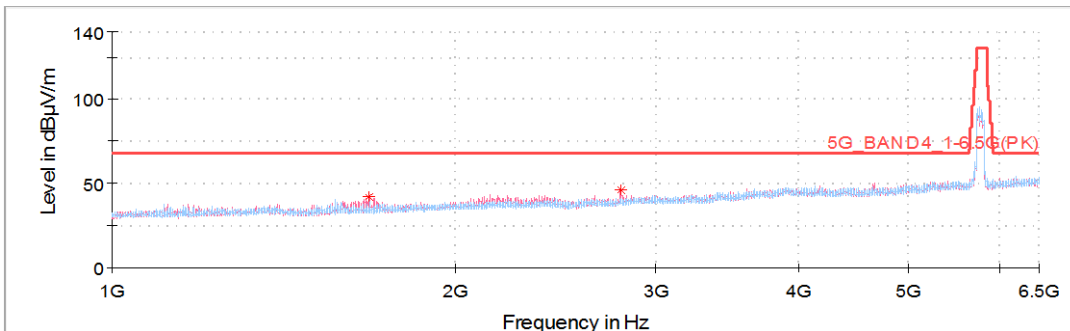


Highest Channel (5 795 MHz)



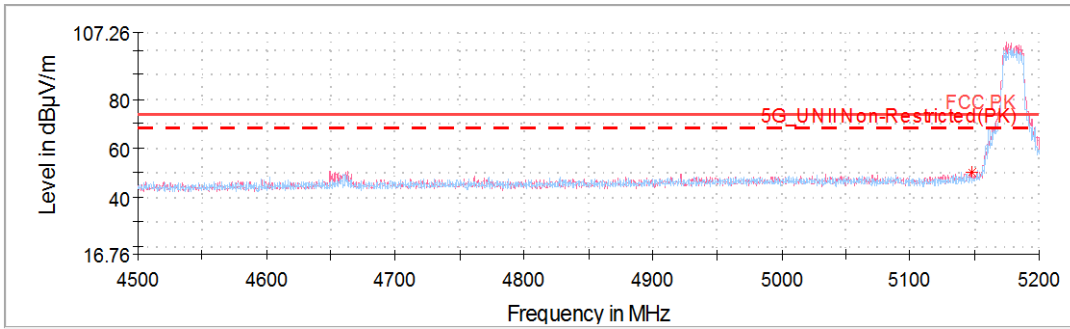
- 802.11ac VHT80

Middle Channel (5 775 MHz)

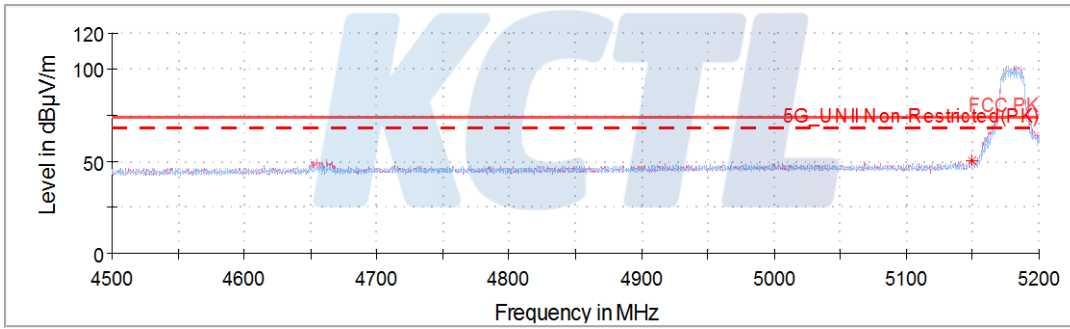


- Restricted Bandedge data_U-NII-1(Lowest channel)

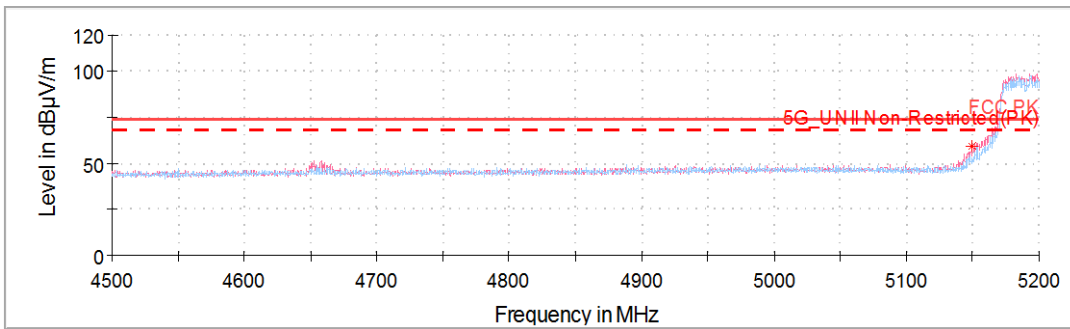
- 802.11a



- 802.11n HT20



- 802.11n HT40



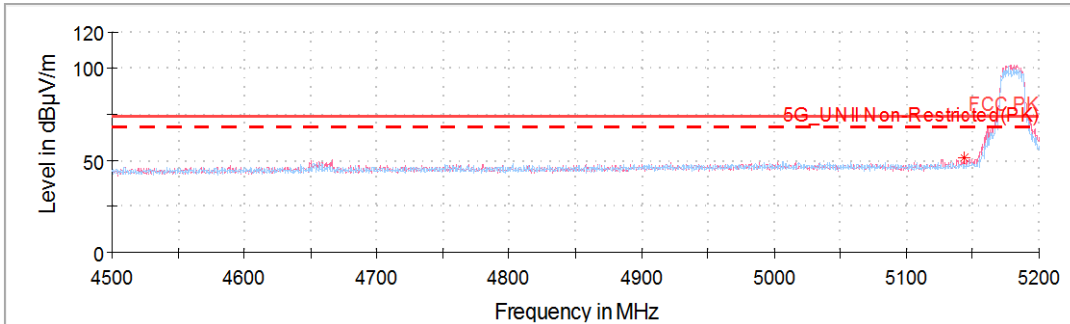
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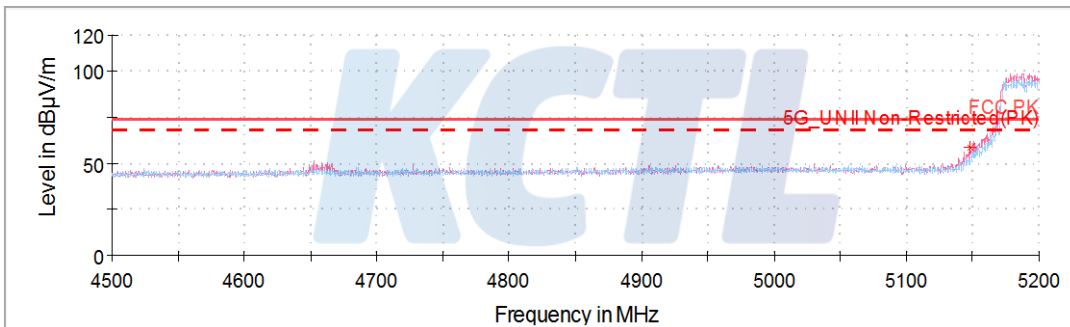
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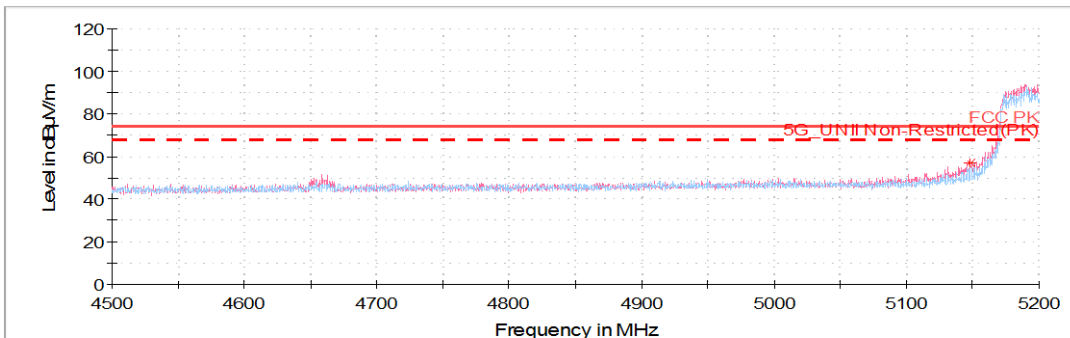
- 802.11ac VHT20



- 802.11ac VHT40

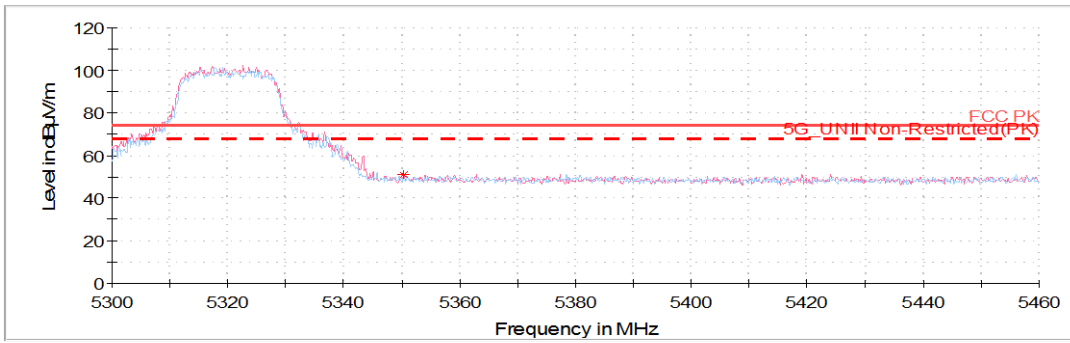


- 802.11ac VHT80

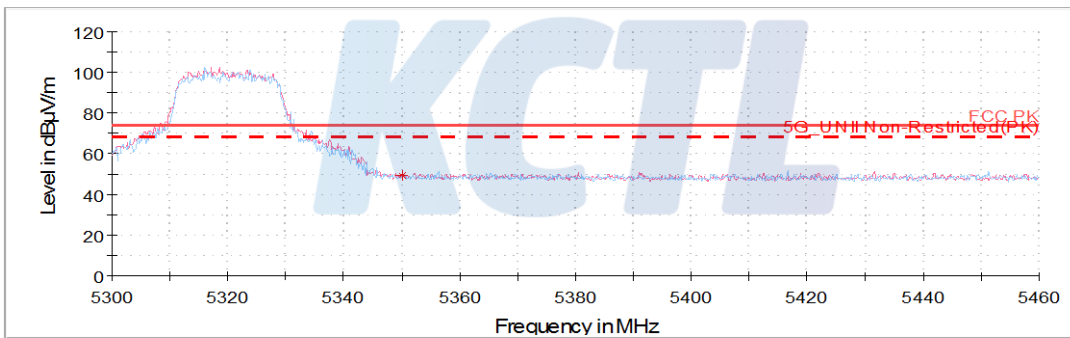


- Restricted Bandedge data_U-NII-2A(Highest Channel)

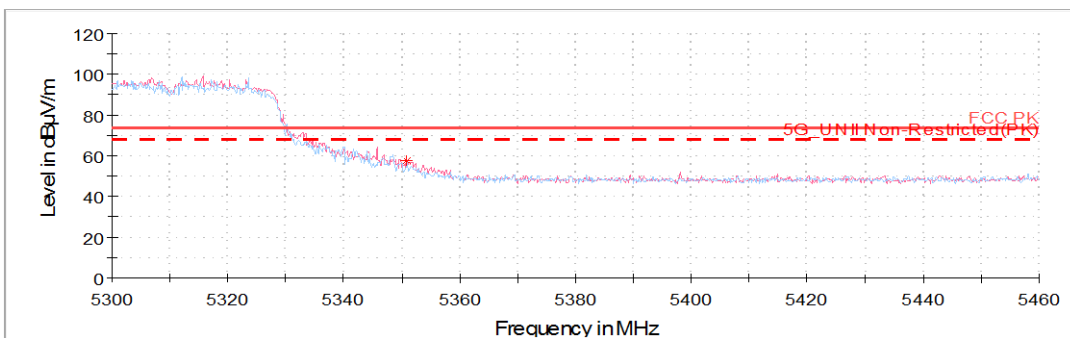
- 802.11a



- 802.11n HT20



- 802.11n HT40



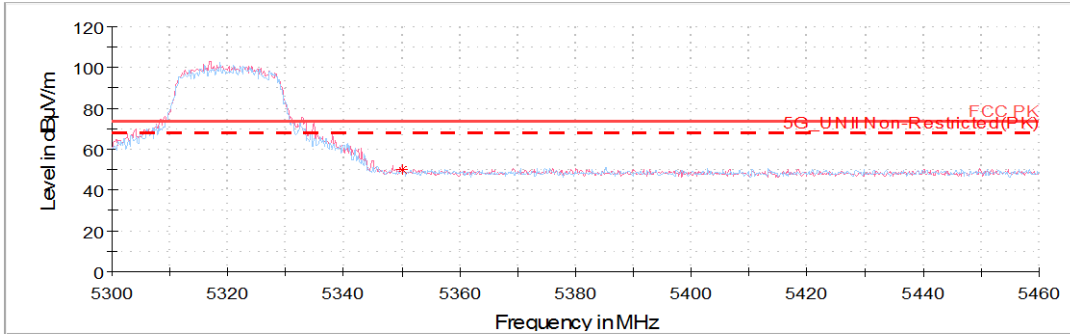
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Suwon-si, Gyeonggi-do, 16677, Korea
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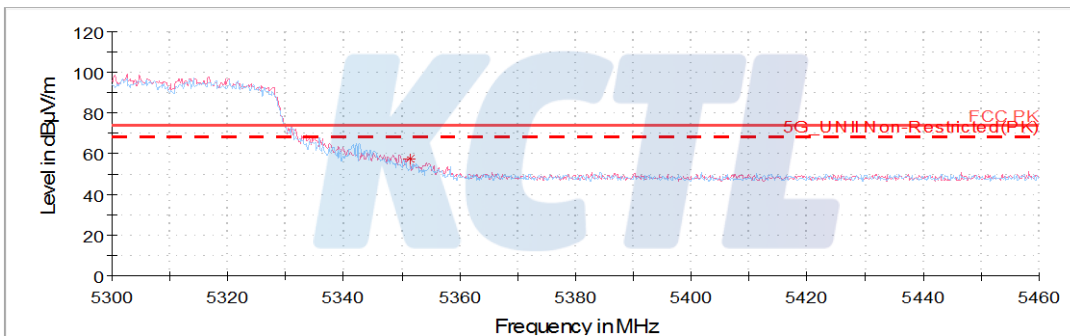
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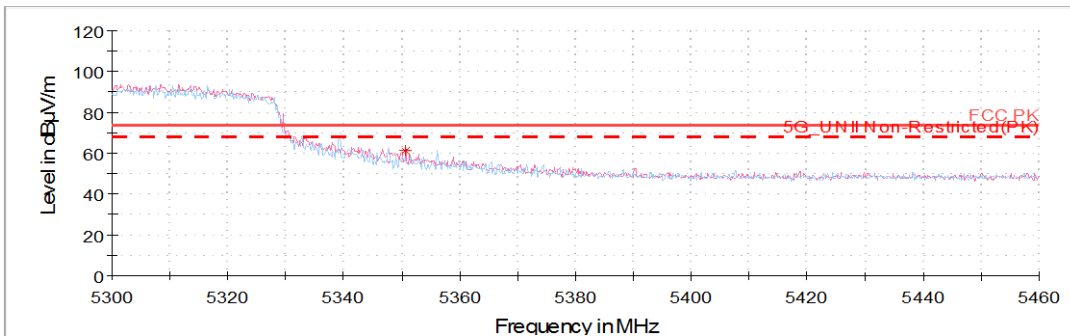
- 802.11ac VHT20



- 802.11ac VHT40

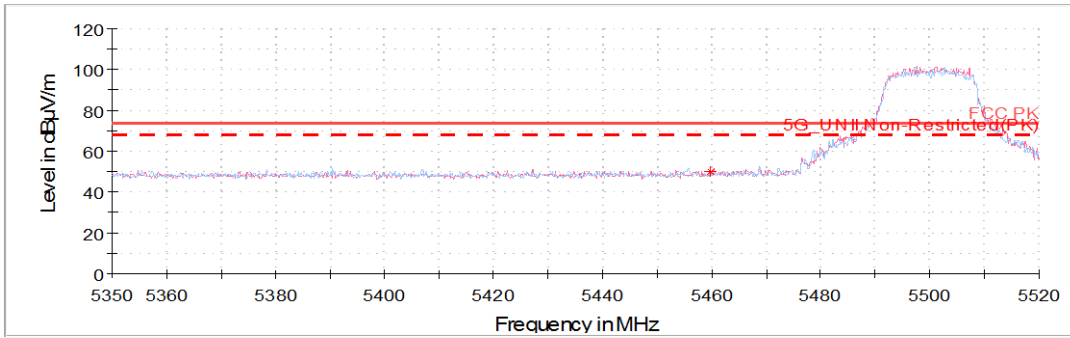


- 802.11ac VHT80

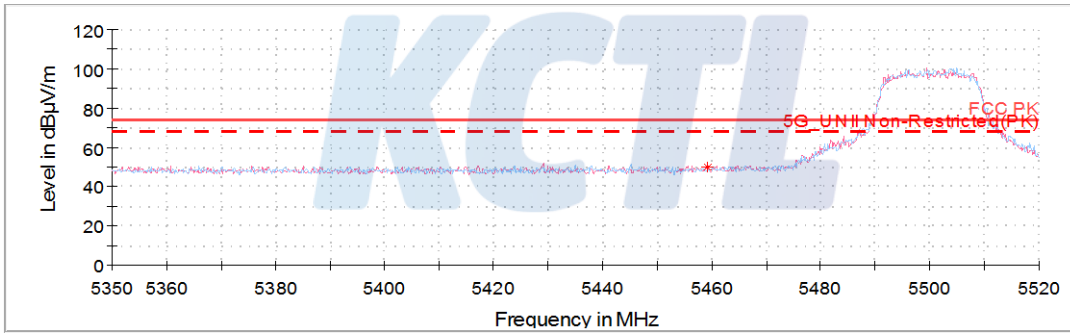


- Restricted Bandedge data_U-NII-2C(Lowest channel)

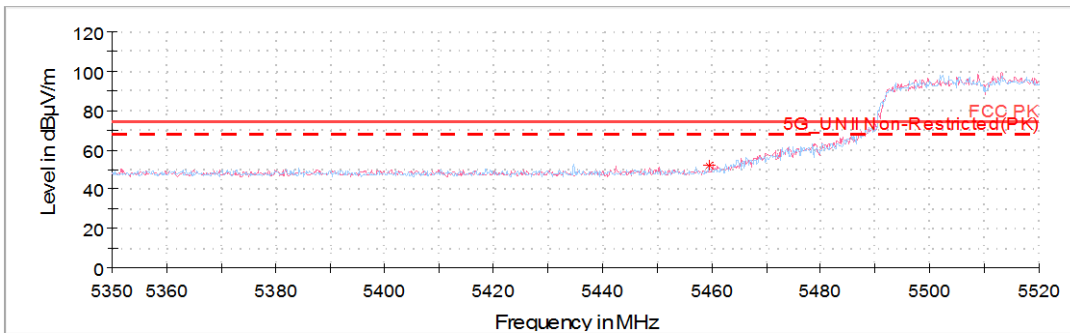
- 802.11a



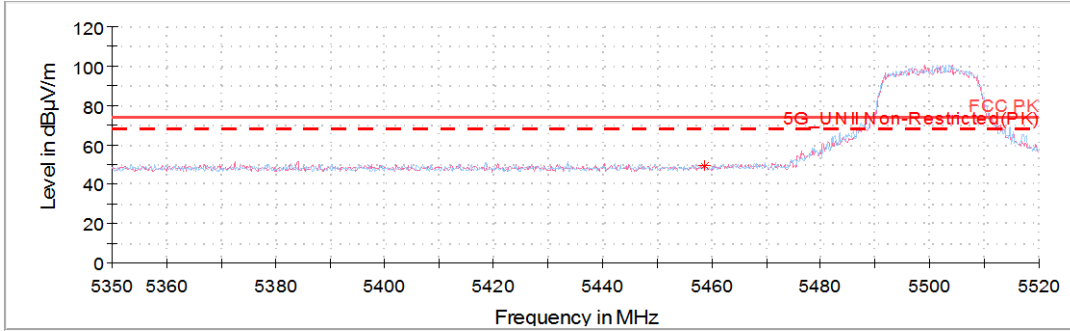
- 802.11n HT20



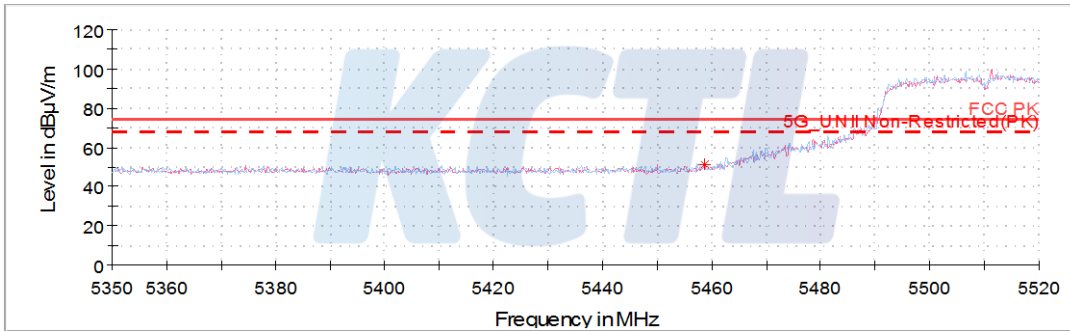
- 802.11n HT40



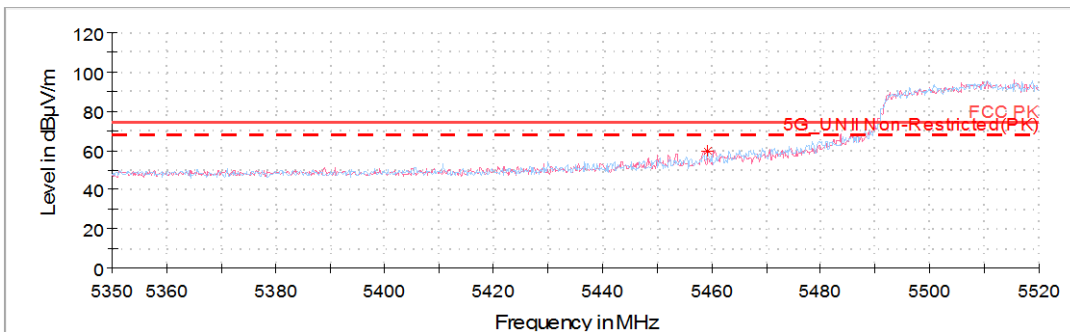
- 802.11ac VHT20



- 802.11ac VHT40

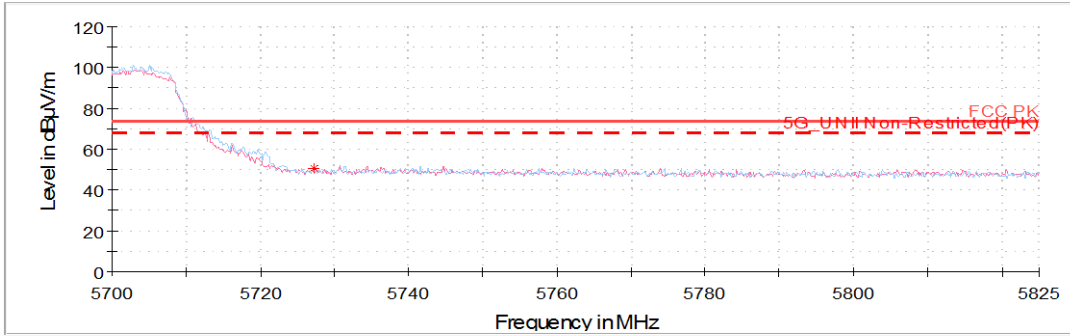


- 802.11ac VHT80

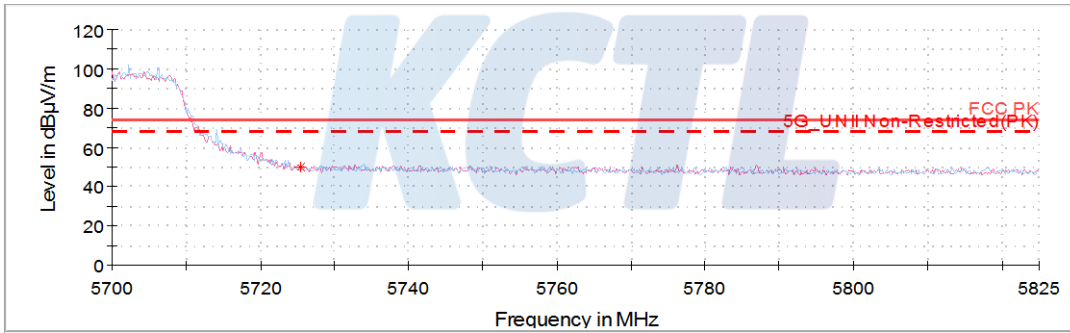


- Restricted Bandedge data_U-NII-2C(Highest Channel)

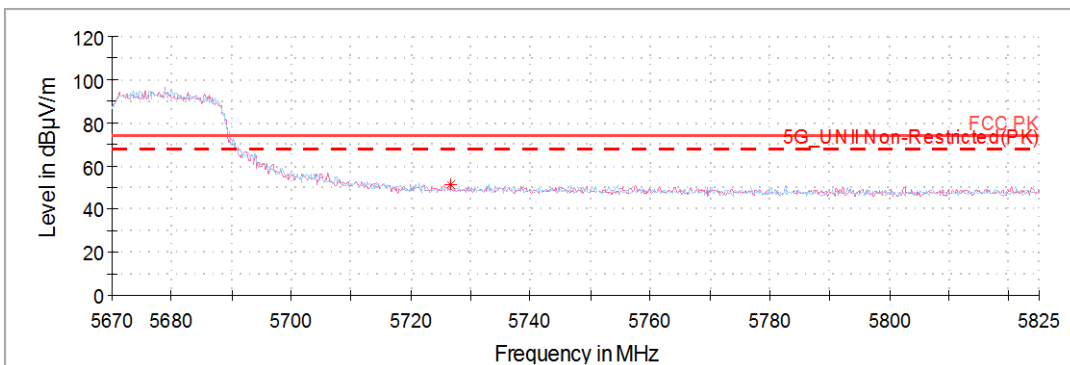
- 802.11a



- 802.11n HT20



- 802.11n HT40



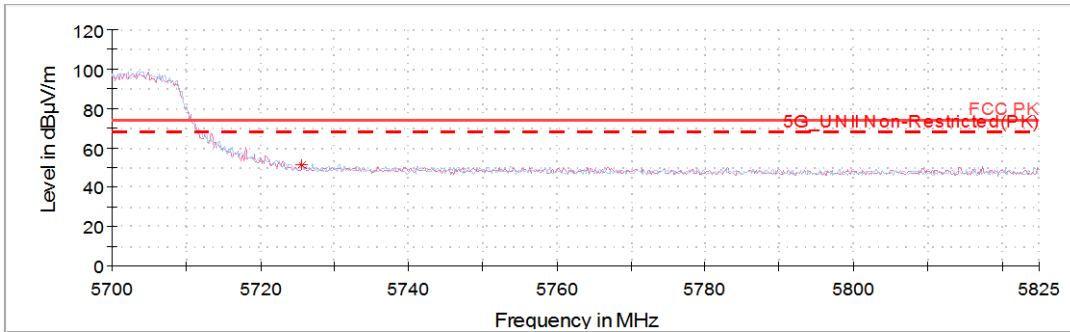
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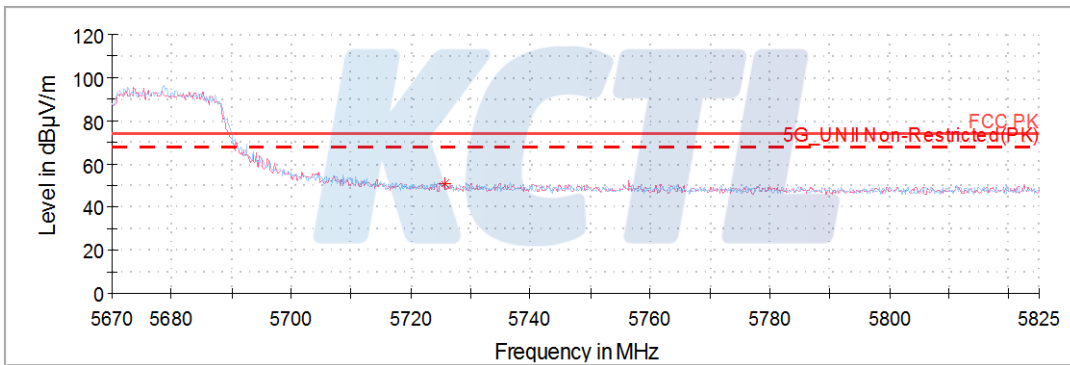
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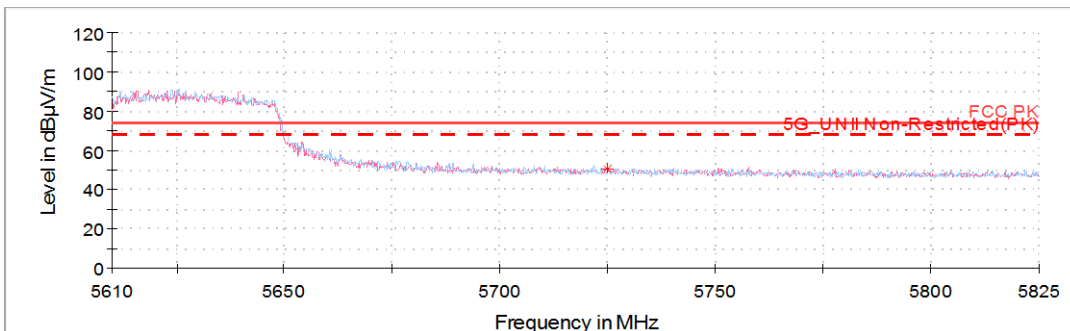
- 802.11ac VHT20



- 802.11ac VHT40

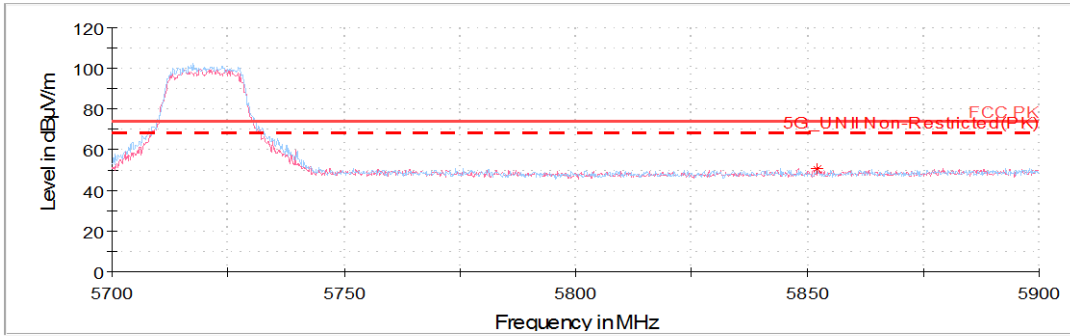


- 802.11ac VHT80

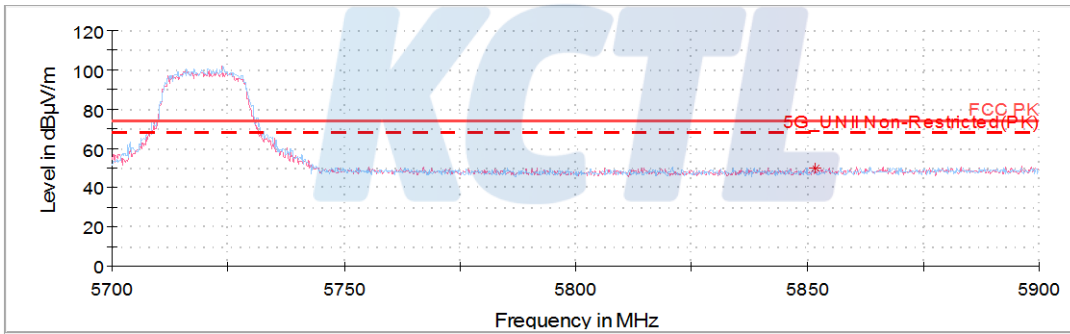


- Restricted Bandedge data_U-NII-2C(Highest Channel)

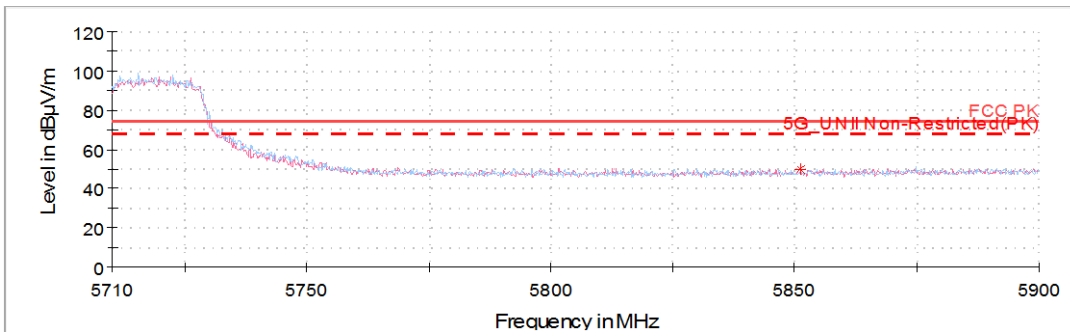
- 802.11a (5 720 MHz)



- 802.11n HT20 (5 720 MHz)



- 802.11n HT40 (5 710 MHz)



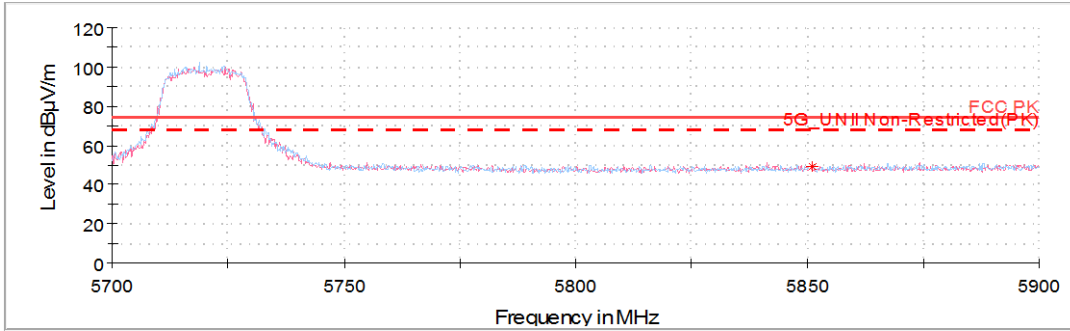
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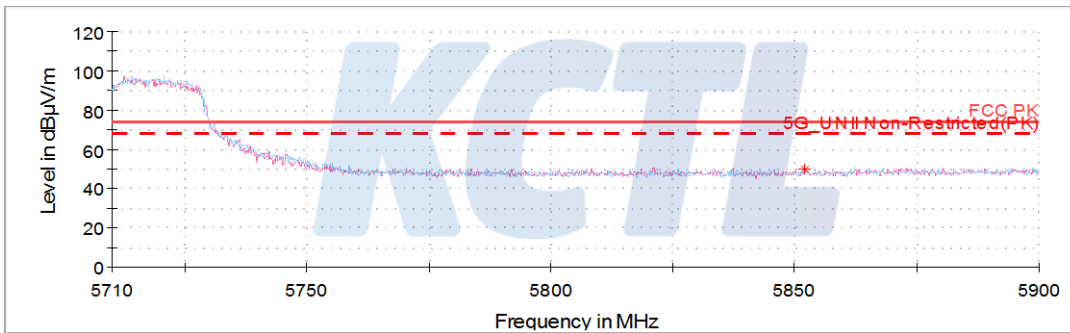
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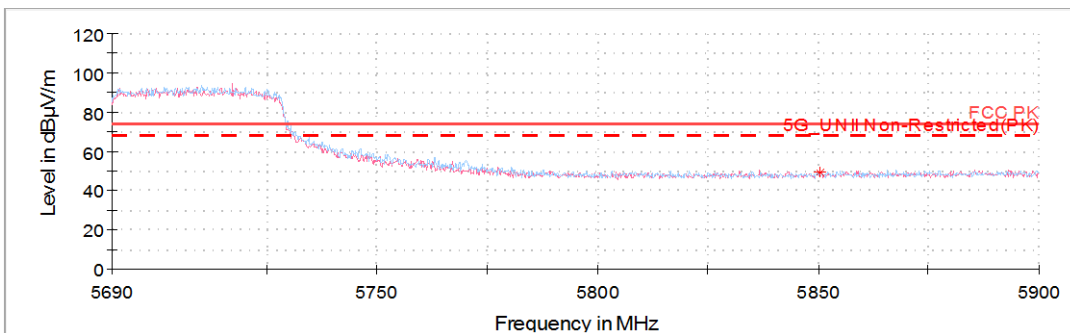
- 802.11ac VHT20 (5 720 MHz)



- 802.11ac VHT40 (5 710 MHz)

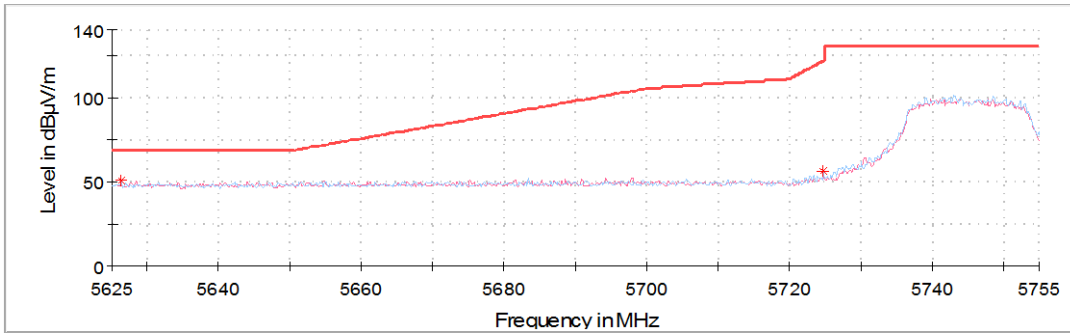


- 802.11ac VHT80 (5 690 MHz)

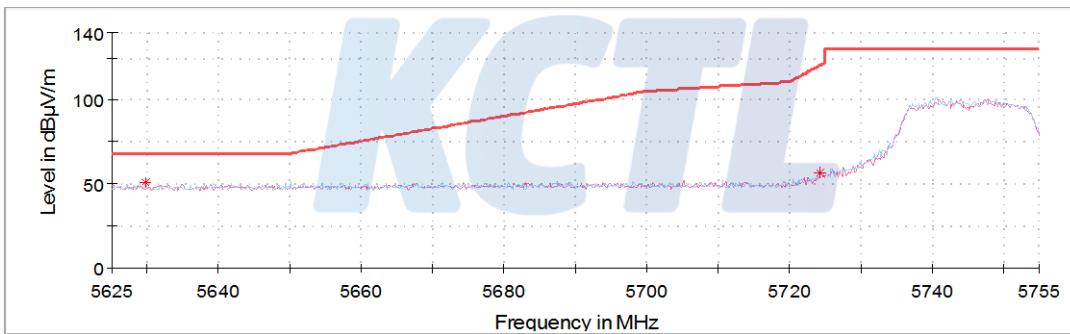


- Restricted Bandedge data_U-NII-3(Lowest channel)

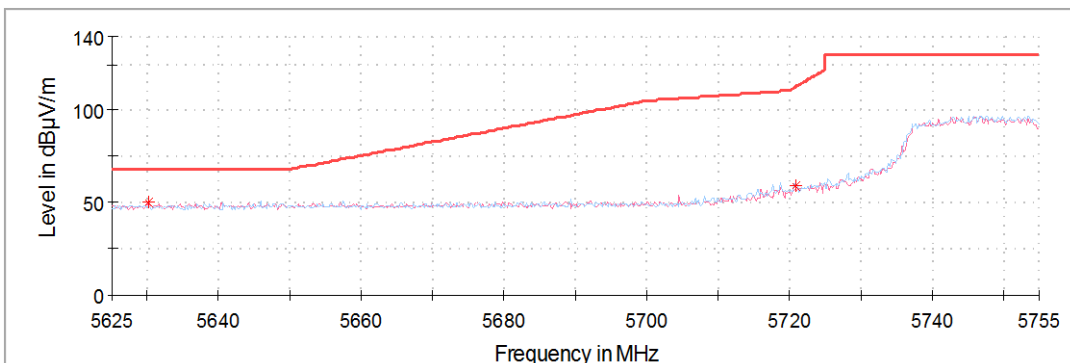
- 802.11a



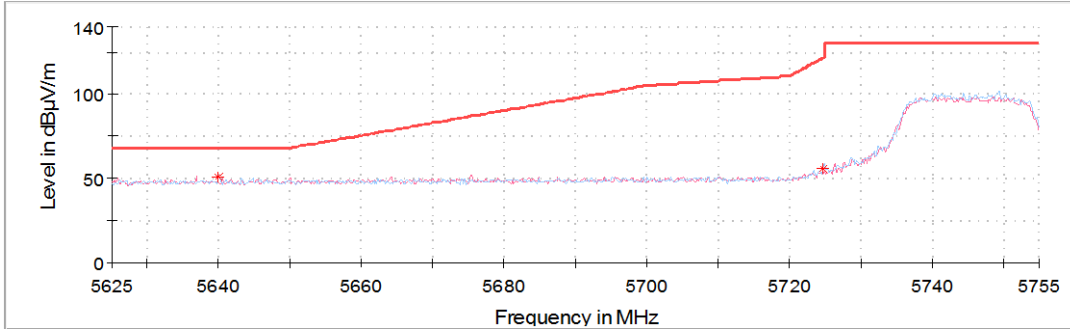
- 802.11n HT20



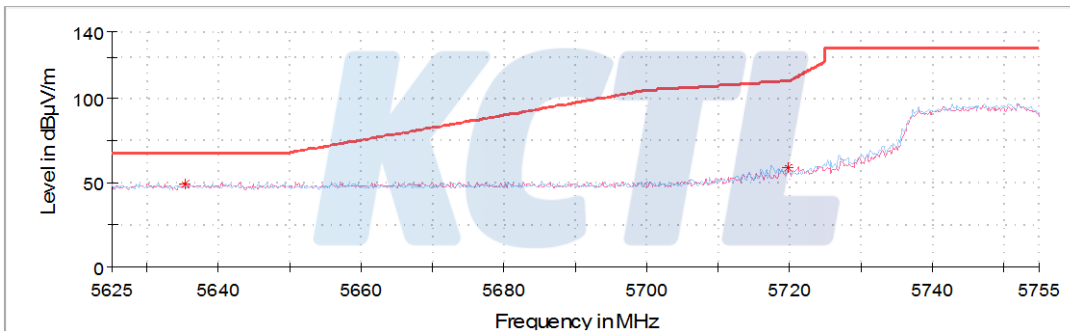
- 802.11n HT40



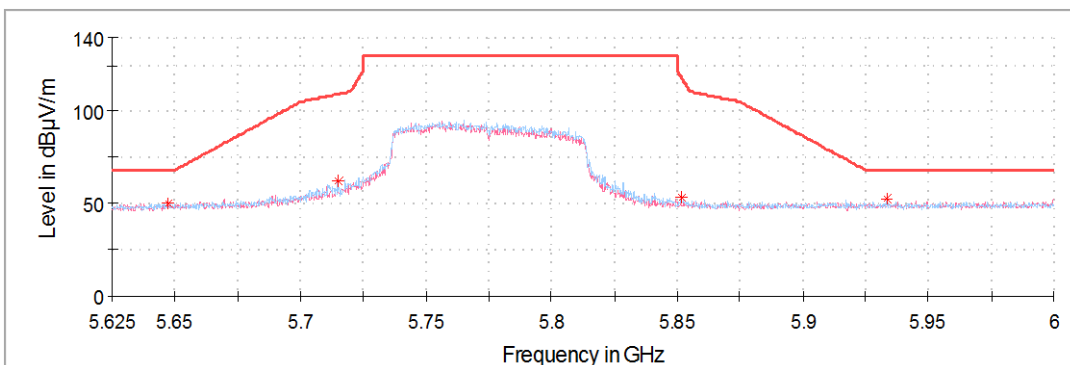
- 802.11ac VHT20



- 802.11ac VHT40

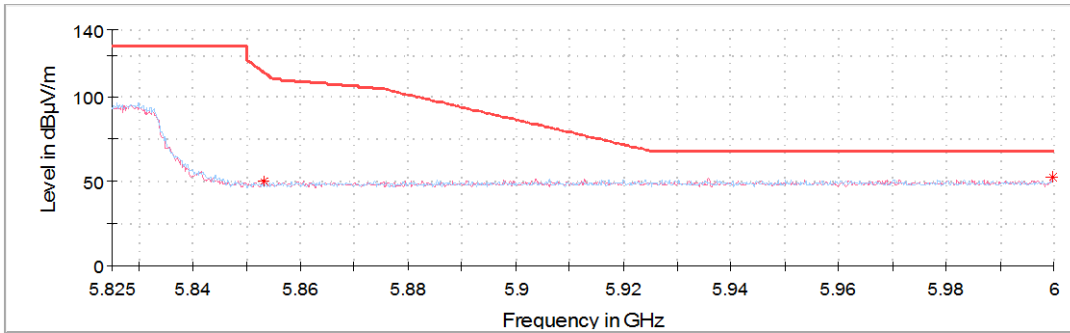


- 802.11ac VHT80

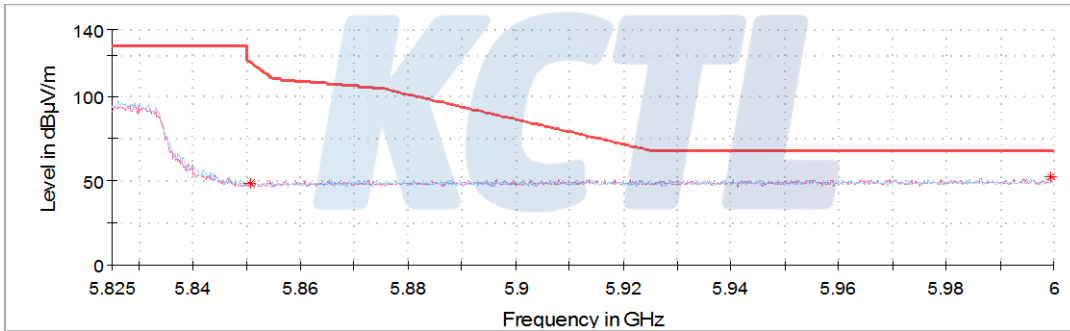


- Restricted Bandedge data_U-NII-3(Highest Channel)

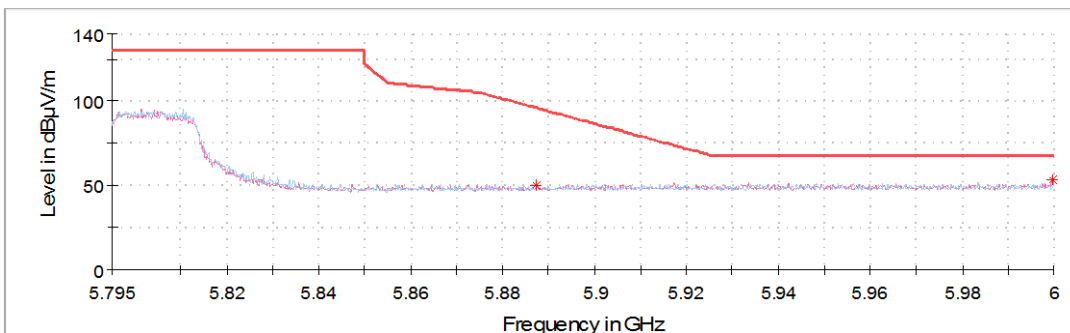
- 802.11a



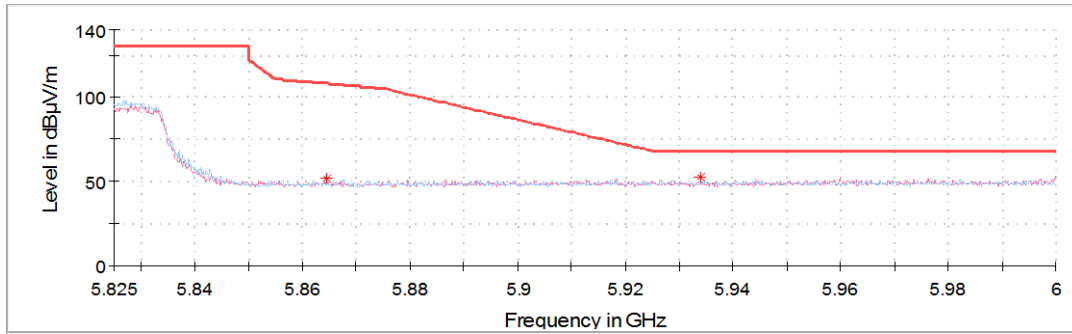
- 802.11n HT20



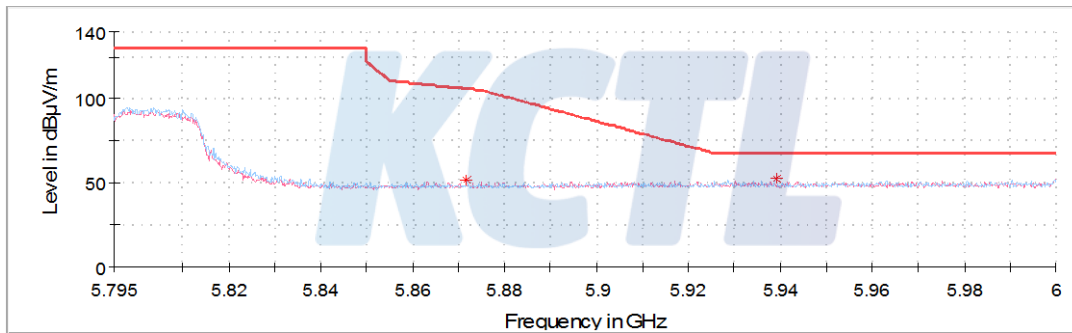
- 802.11n HT40



- 802.11ac VHT20



- 802.11ac VHT40



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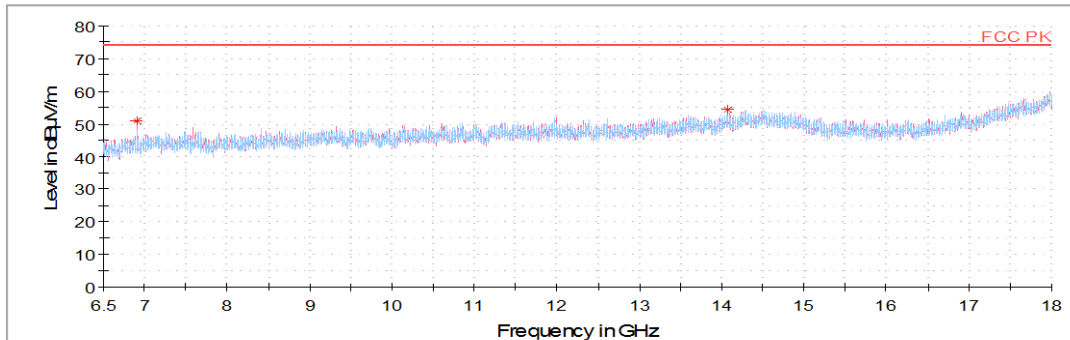
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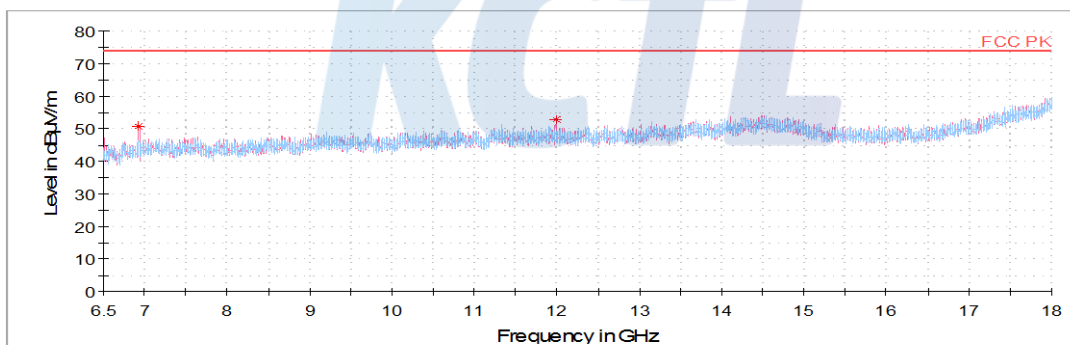
- 6.5 GHz ~ 18 GHz data_U-NII-1

- 802.11a

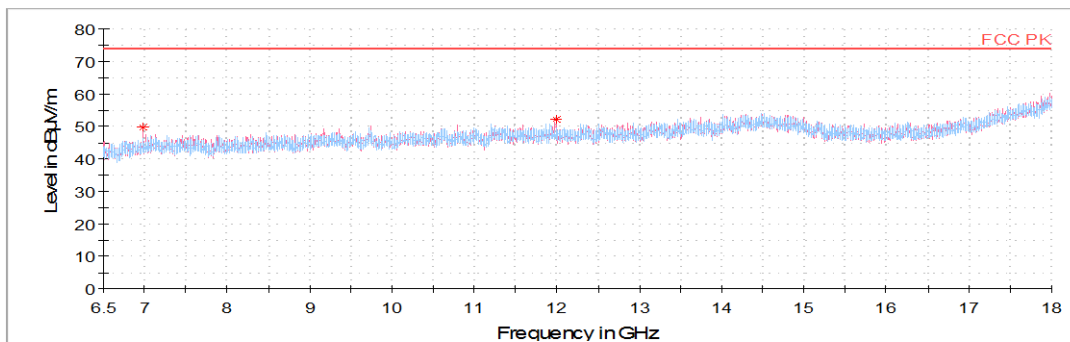
Lowest Channel (5 180 MHz)



Middle Channel (5 200 MHz)

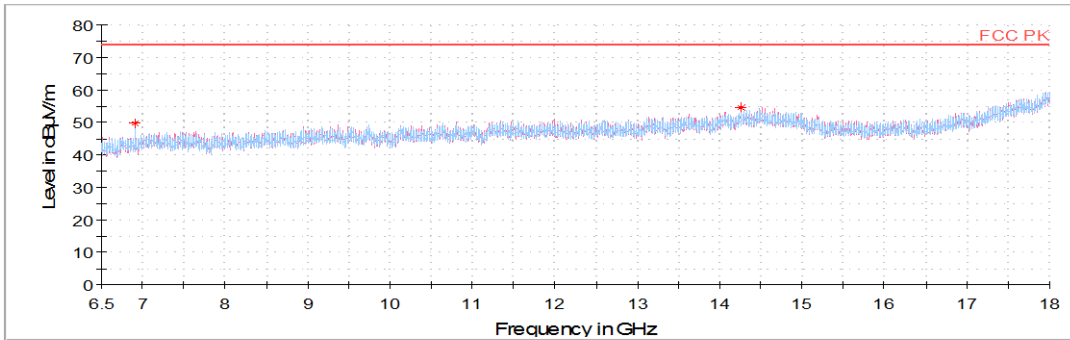


Highest Channel (5 240 MHz)

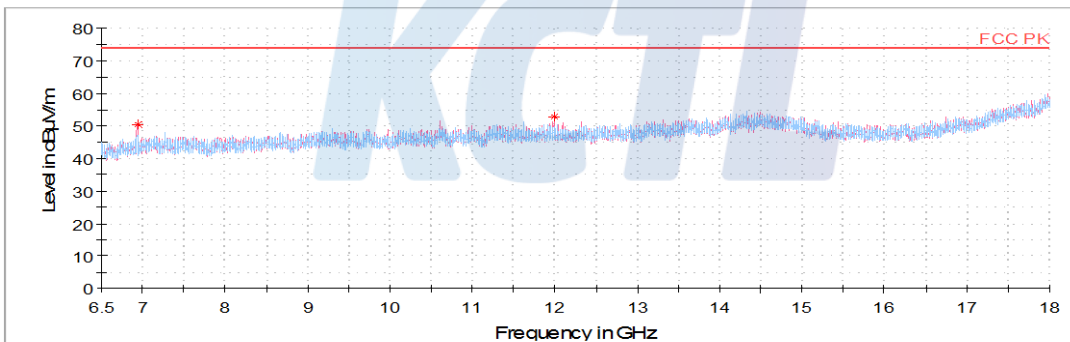


- 802.11n HT20

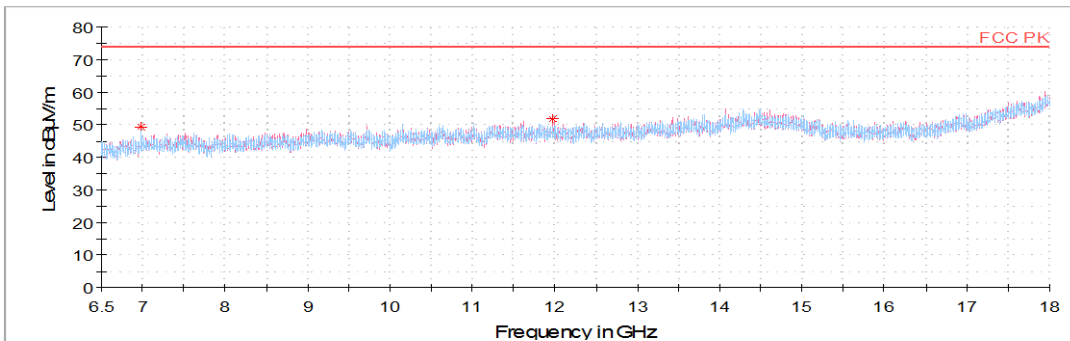
Lowest Channel (5 180 MHz)



Middle Channel (5 200 MHz)



Highest Channel (5 240 MHz)



KCTL Inc.

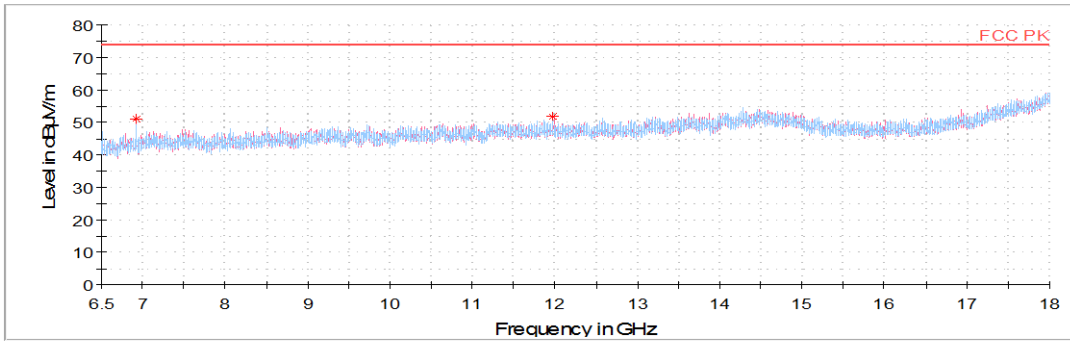
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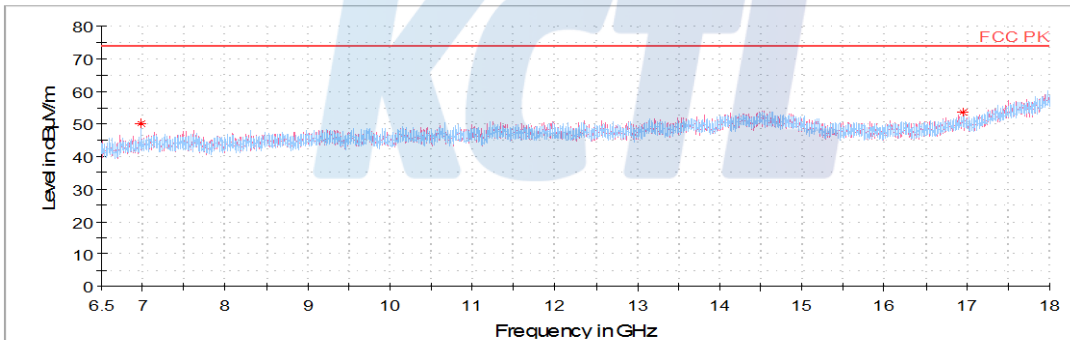


- 802.11n HT40

Lowest Channel (5 190 MHz)



Highest Channel (5 230 MHz)



KCTL Inc.

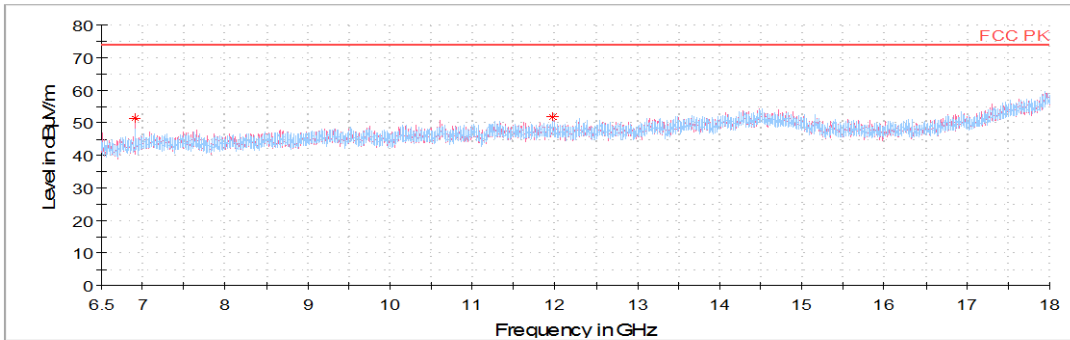
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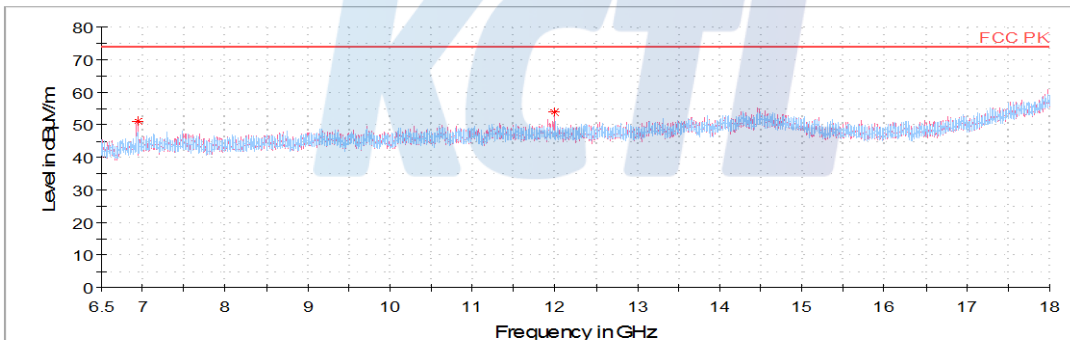


- 802.11ac VHT20

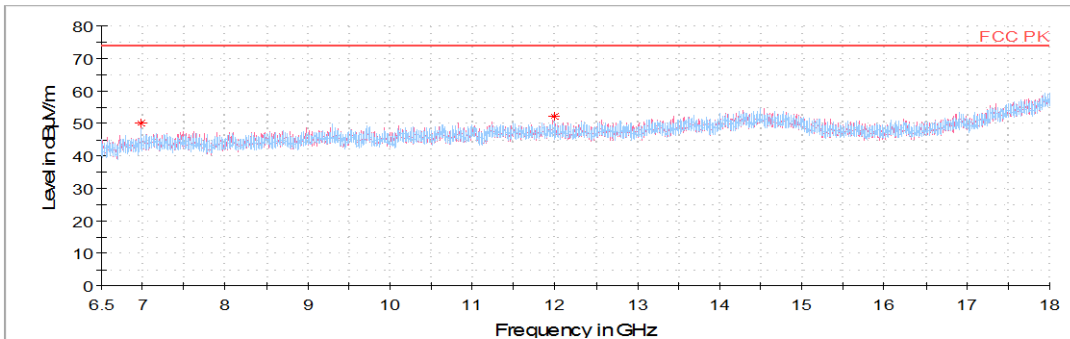
Lowest Channel (5 180 MHz)



Middle Channel (5 200 MHz)



Highest Channel (5 240 MHz)



KCTL Inc.

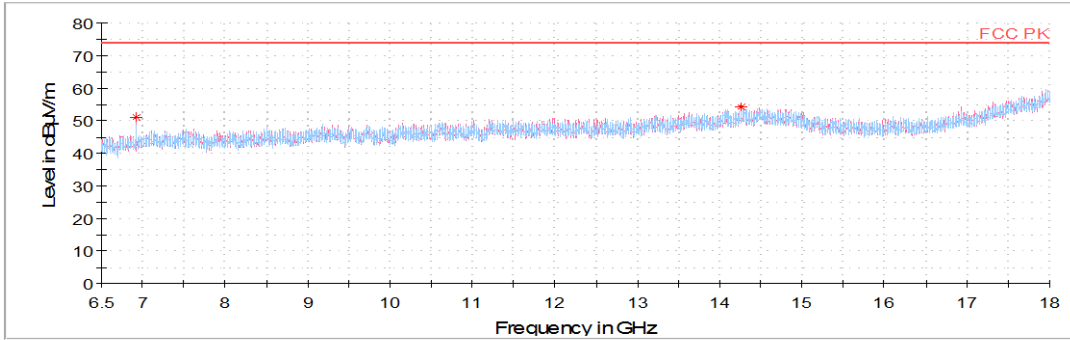
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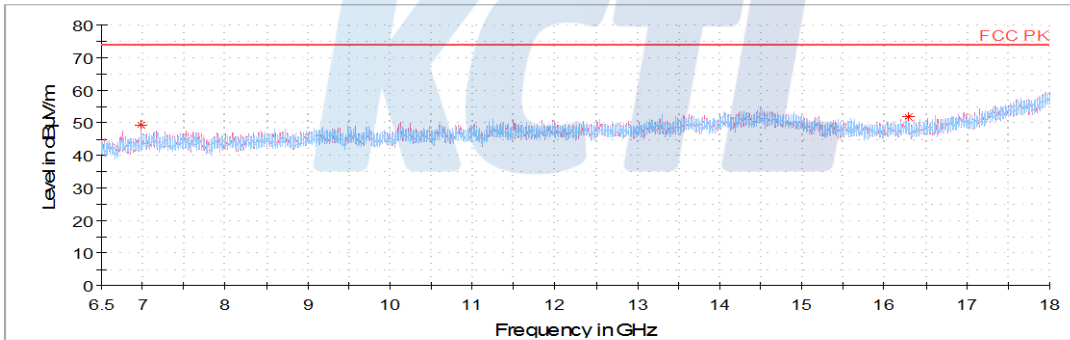


- 802.11ac VHT40

Lowest Channel (5 190 MHz)



Highest Channel (5 230 MHz)



- 802.11ac VHT80

Middle Channel (5 210 MHz)

