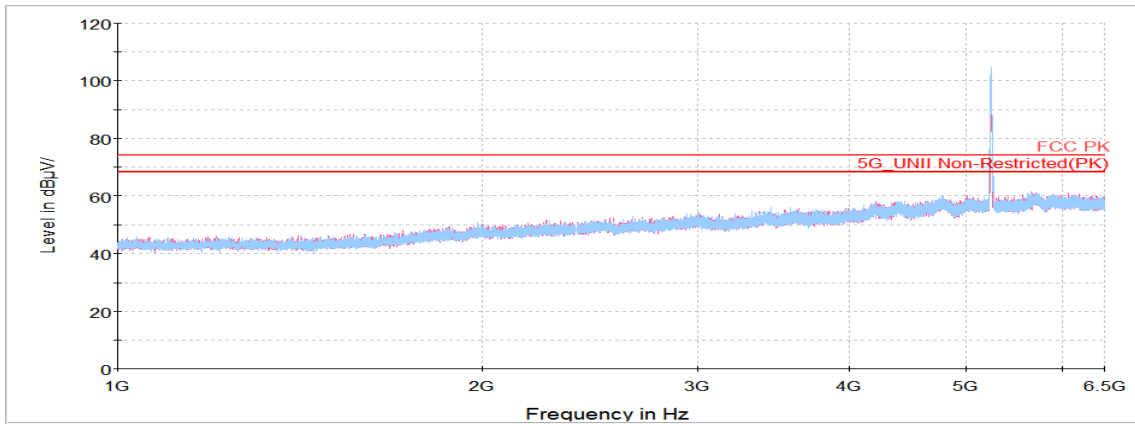
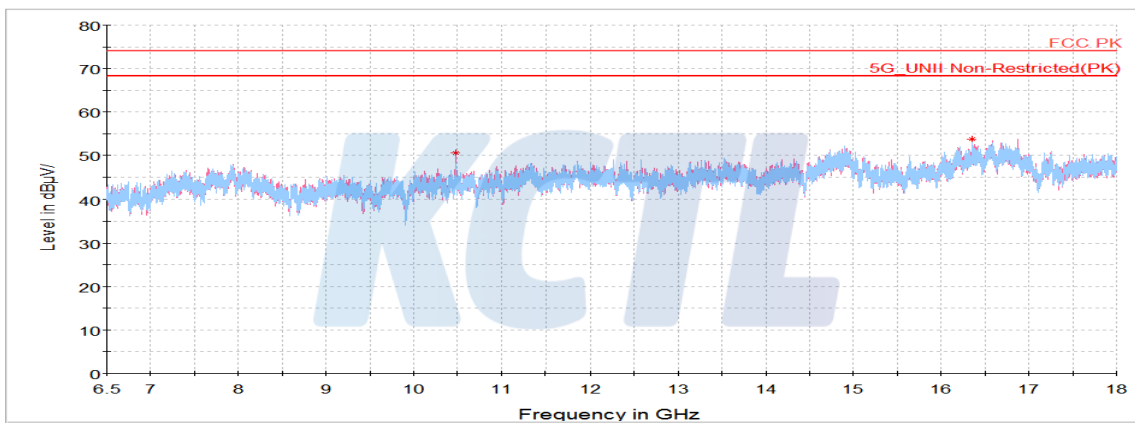
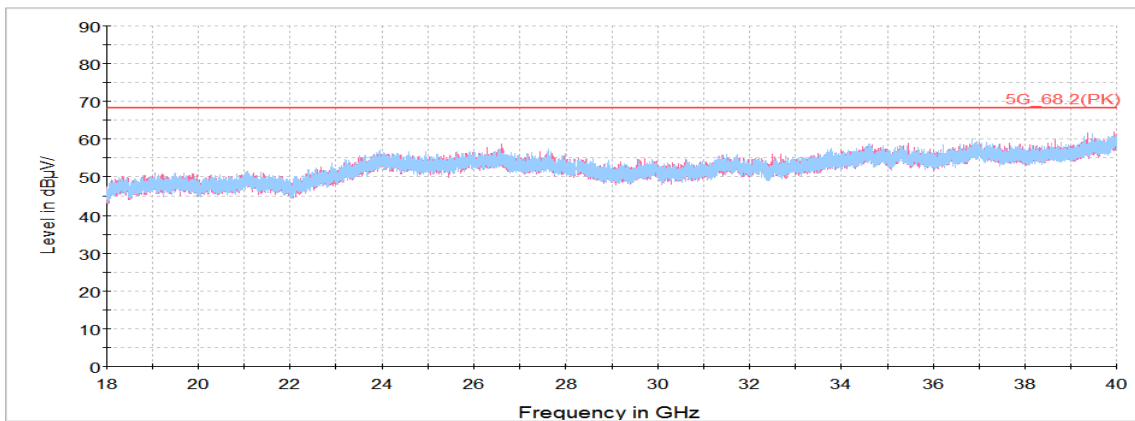


Highest Channel (5 240 MHz)

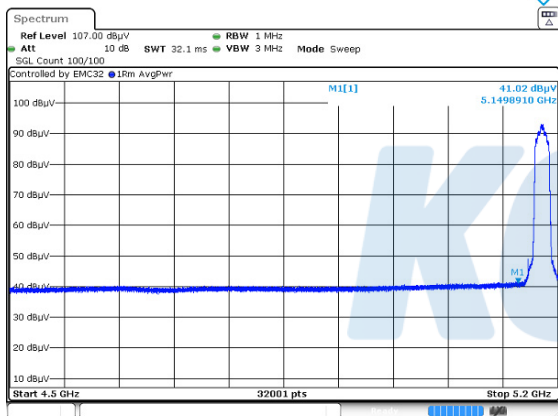
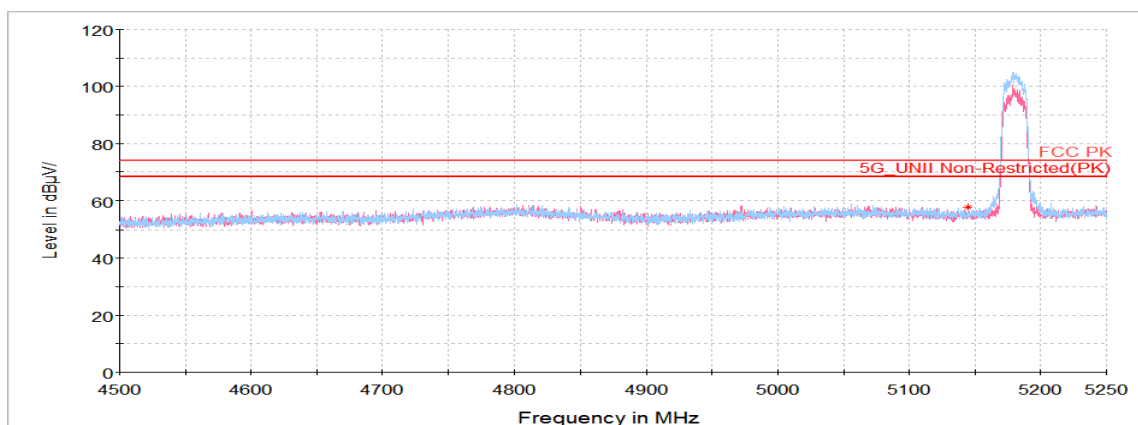
Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
10 479.72	V	64.87	37.38	-51.71	-	50.54	68.20	17.66
16 359.81	H	58.08	41.72	-46.01	-	53.79	68.20	14.41
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

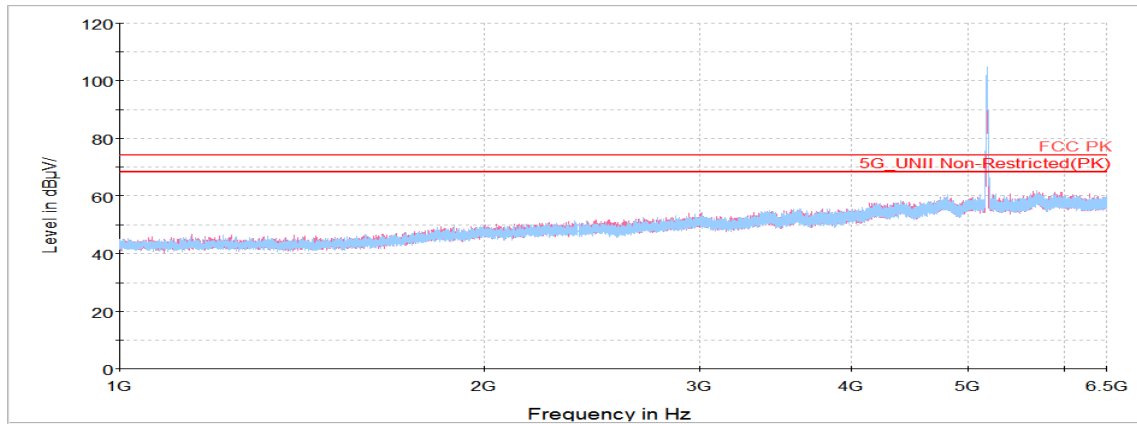
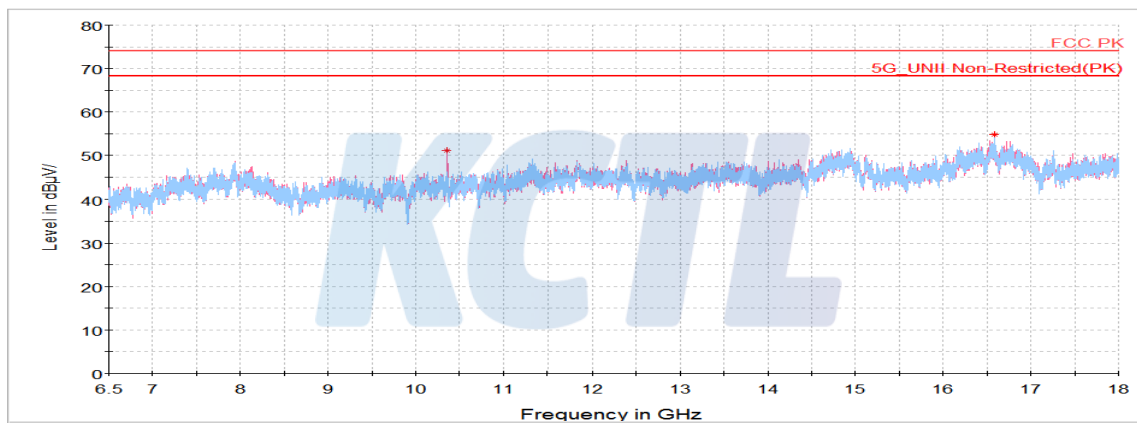
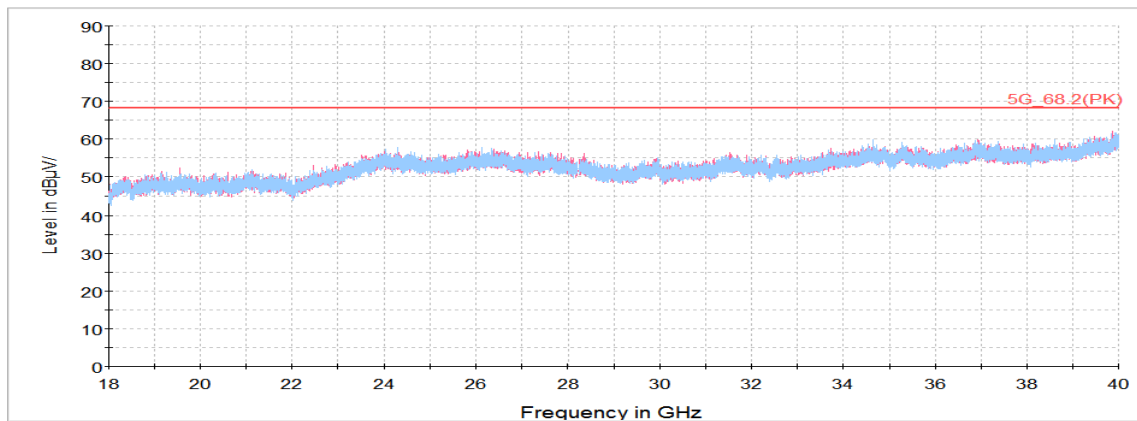


Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

802.11 HT20 UNII-1**Lowest Channel (5 180 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								
5 149.89 ¹⁾	H	50.36	34.24	-27.12	-	57.48	74.00	16.52
10 359.69	V	65.87	37.26	-51.98	-	51.15	68.20	17.05
16 580.83	H	58.56	41.58	-45.43	-	54.71	68.20	13.49
Average Data								
5 149.89 ¹⁾	H	41.02	34.24	-27.12	0.13	48.27	54.00	5.73

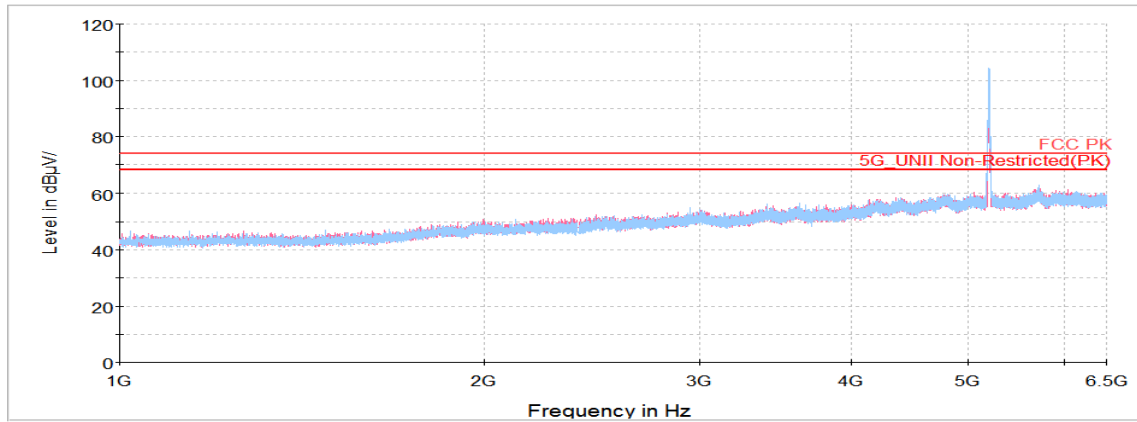
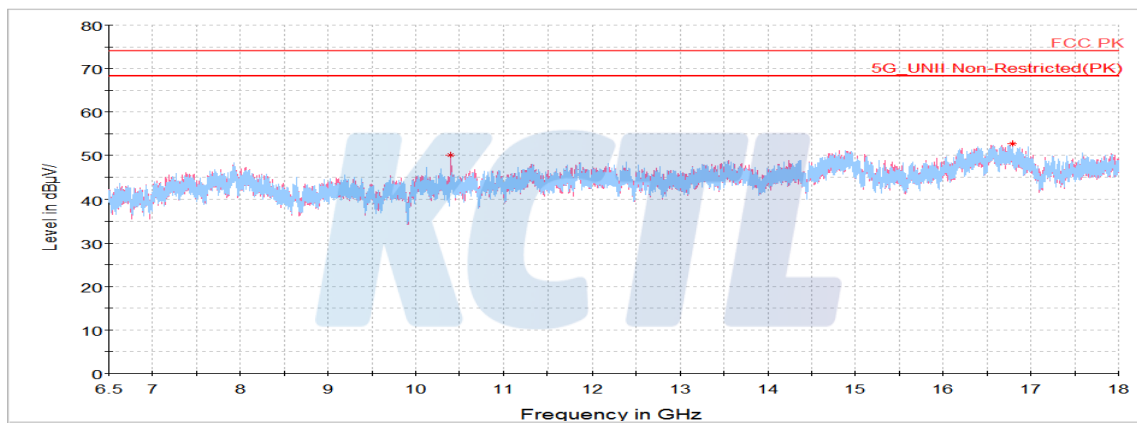
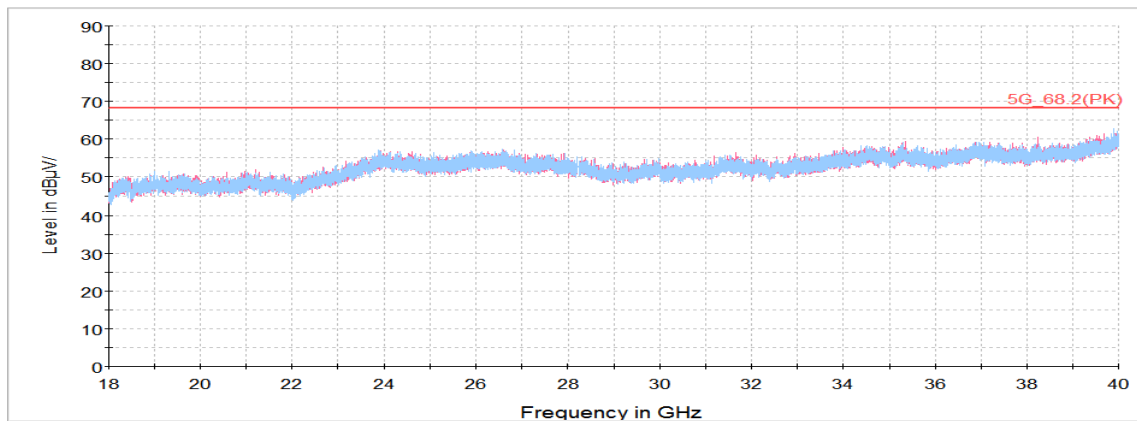
Average data**Horizontal/Vertical for Band-edge**

Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

Middle Channel (5 200 MHz)

Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz) ¹⁾	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
10 399.94	V	64.62	37.30	-51.89	-	50.03	68.20	18.17
16 786.39	H	57.14	41.79	-46.19	-	52.74	68.20	15.46
Average Data								
No spurious emissions were detected within 20 dB of the limit								

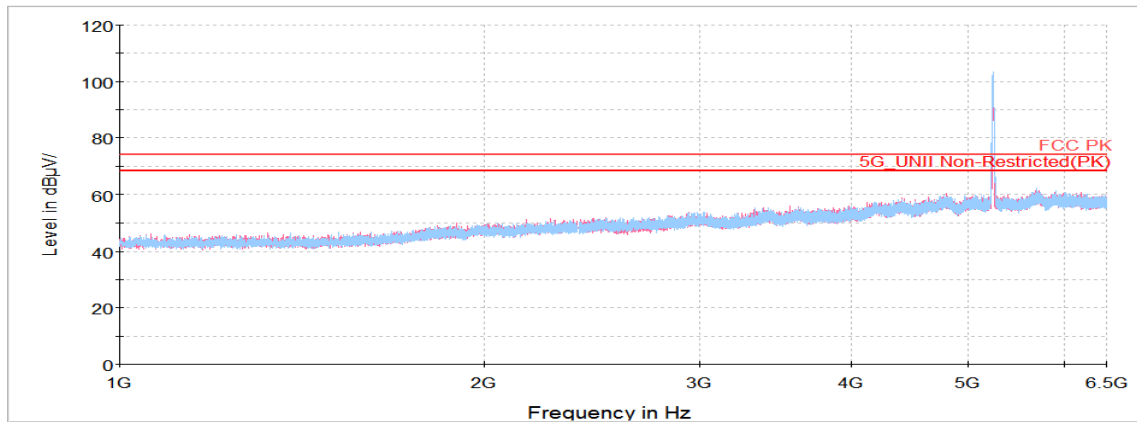
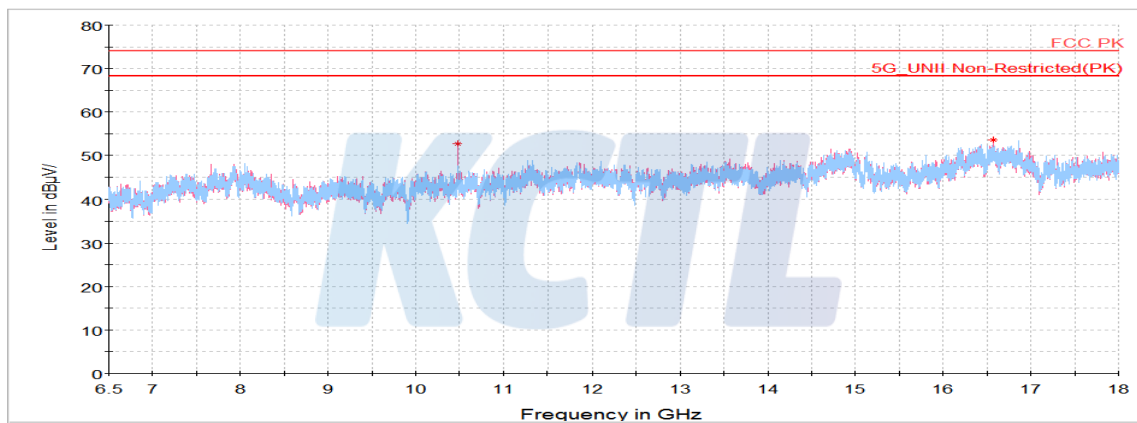
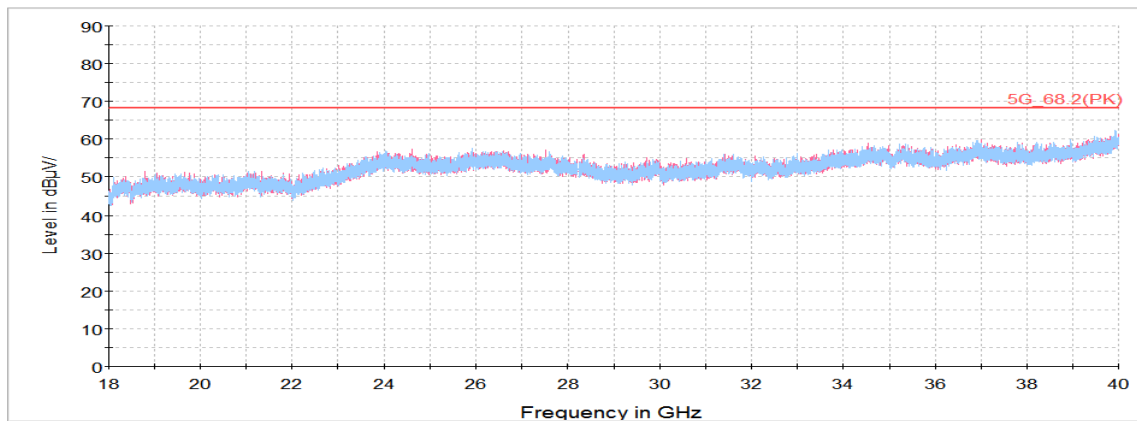


Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

Highest Channel (5 240 MHz)

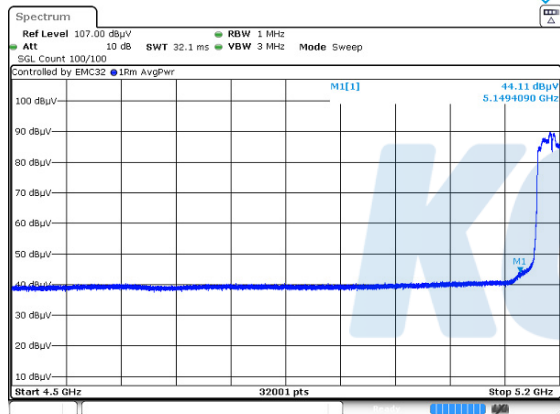
Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
10 480.08	V	67.06	37.38	-51.71	-	52.73	68.20	15.47
16 571.84	V	57.42	41.57	-45.40	-	53.59	68.20	14.61
Average Data								
No spurious emissions were detected within 20 dB of the limit.								



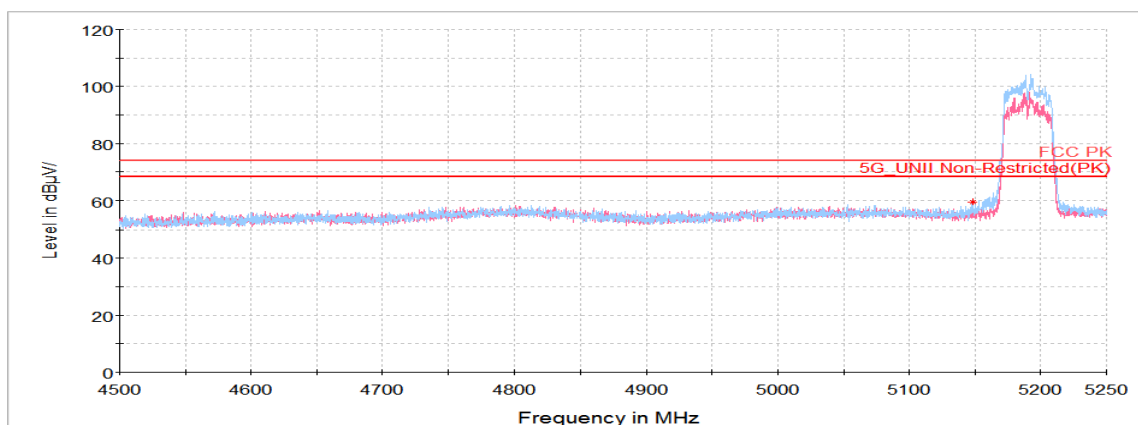
Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

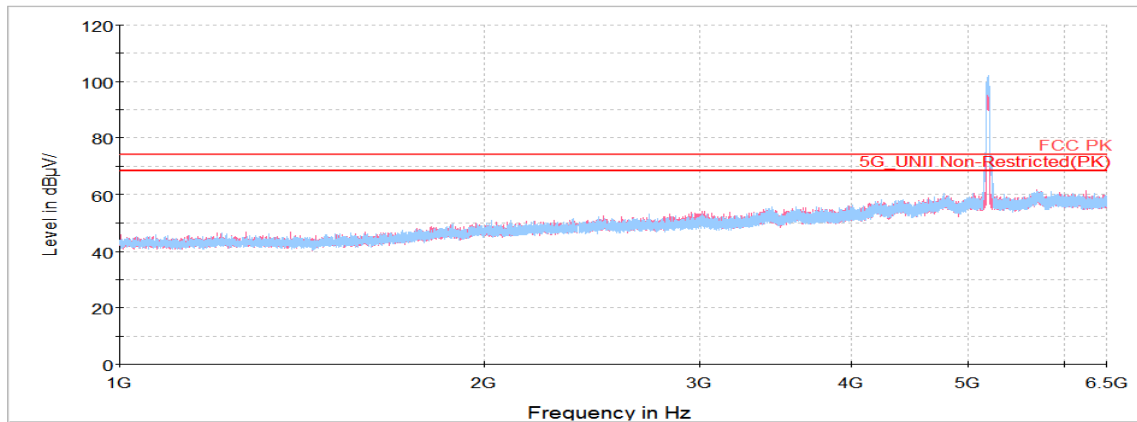
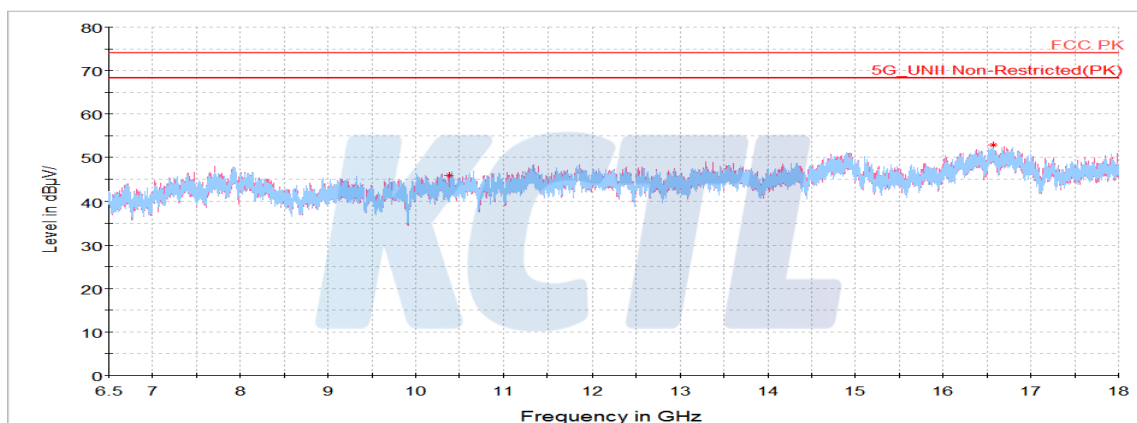
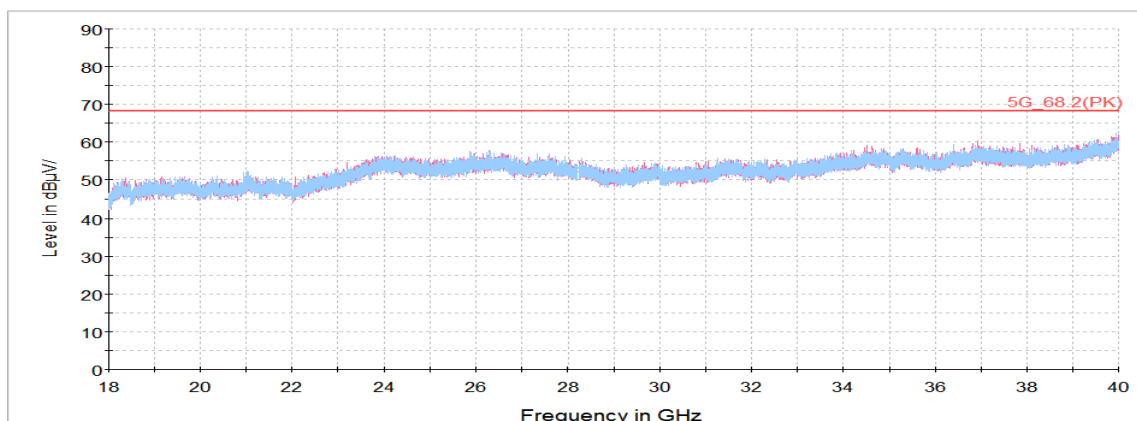
802.11 HT40 UNII-1**Lowest Channel (5 190 MHz)**

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								
5 149.41 ¹⁾	H	55.04	34.24	-27.11	-	62.17	74.00	11.83
10 380.53	V	60.58	37.28	-51.93	-	45.93	68.20	22.27
16 574.00	V	56.77	41.57	-45.41	-	52.93	68.20	15.27
Average Data								
5 149.41 ¹⁾	H	44.11	34.24	-27.11	0.23	51.47	54.00	2.53

Average data

Blank

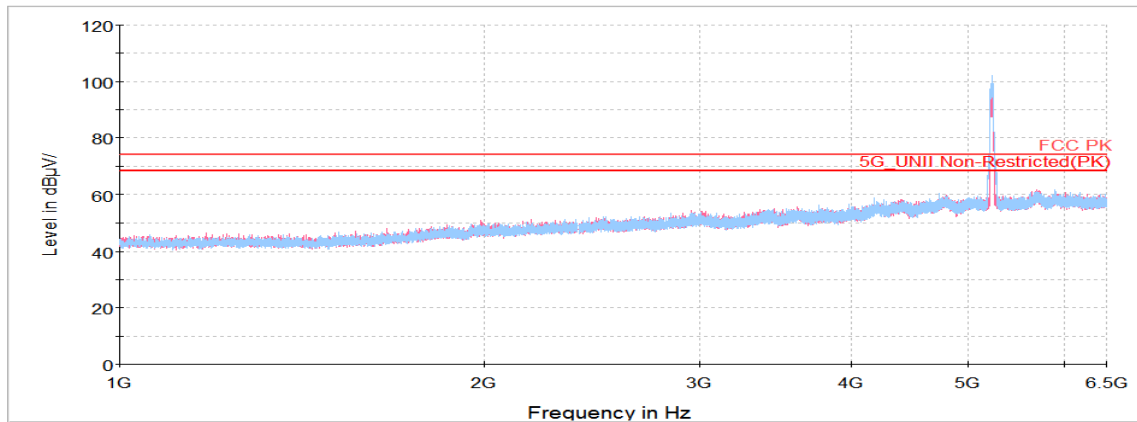
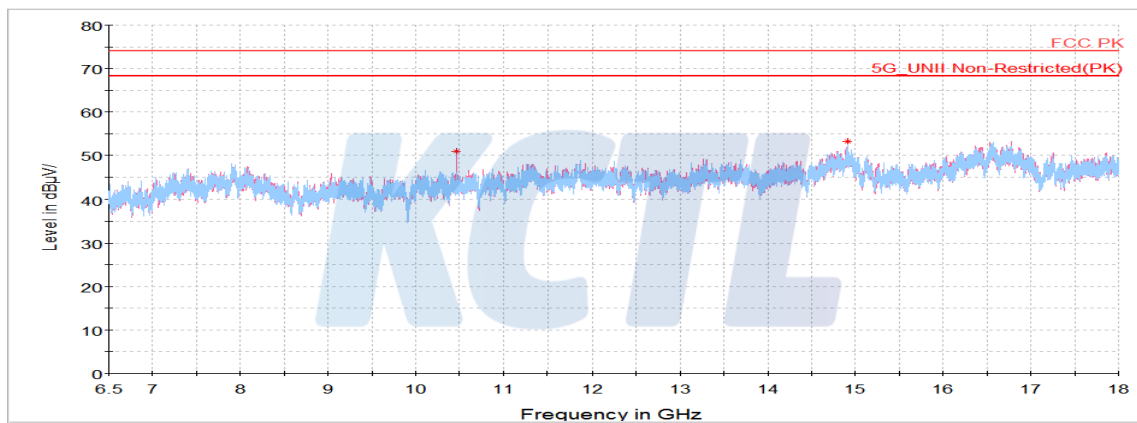
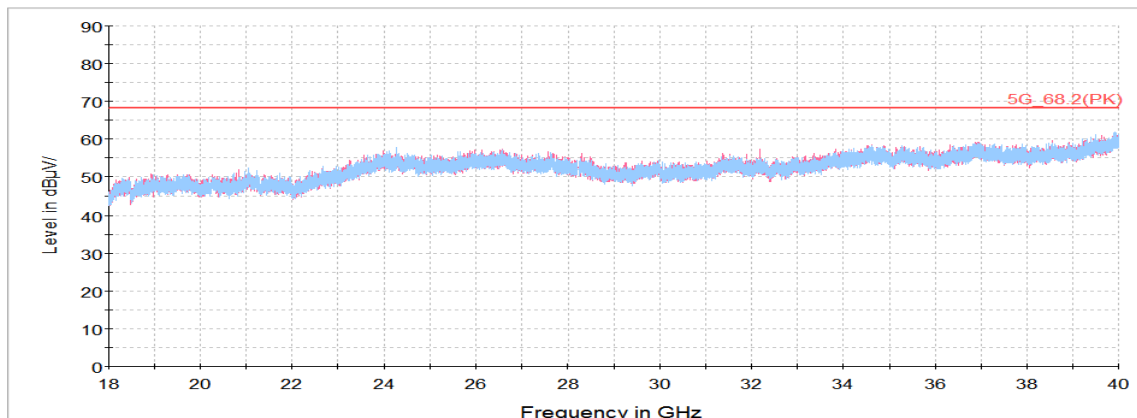
Horizontal/Vertical for Band-edge

Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

Highest Channel (5 230 MHz)

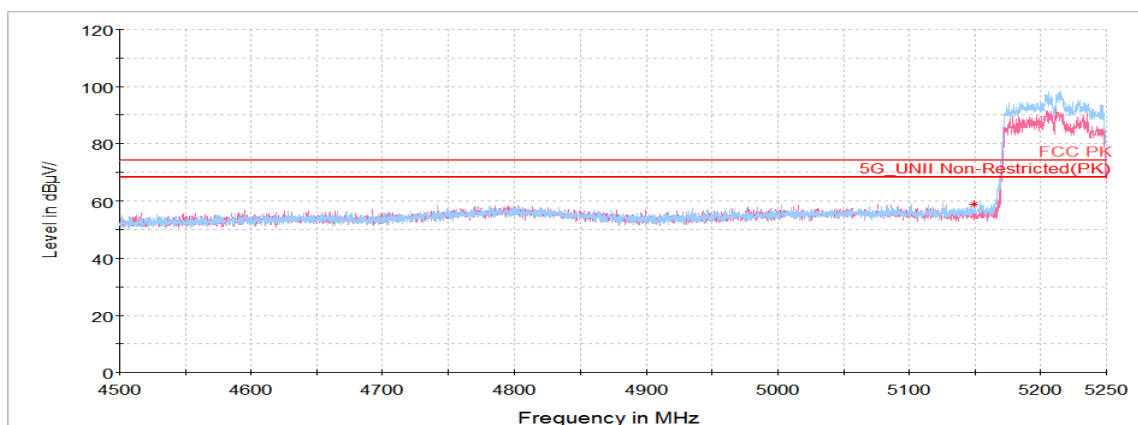
Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
10 459.95	V	65.38	37.36	-51.76	-	50.98	68.20	17.22
14 916.56	H	59.39	40.10	-46.32	-	53.17	68.20	15.03
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

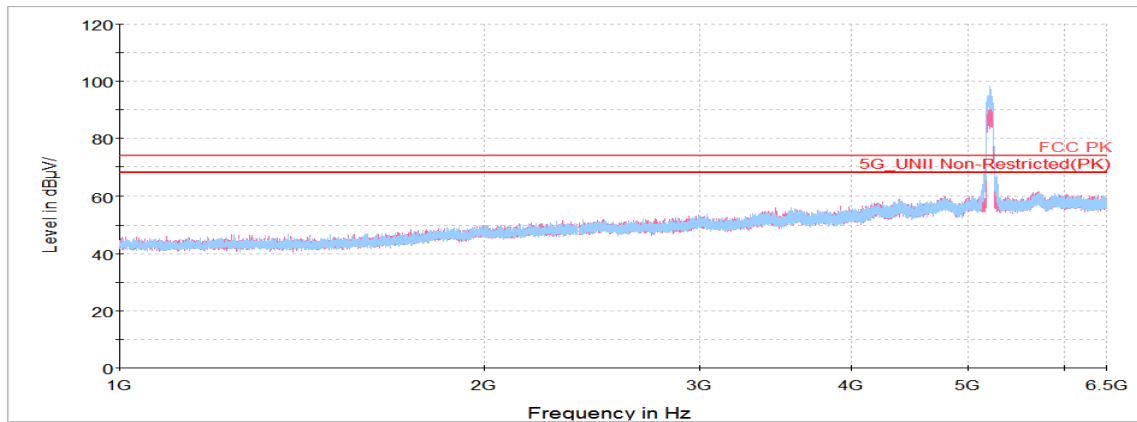
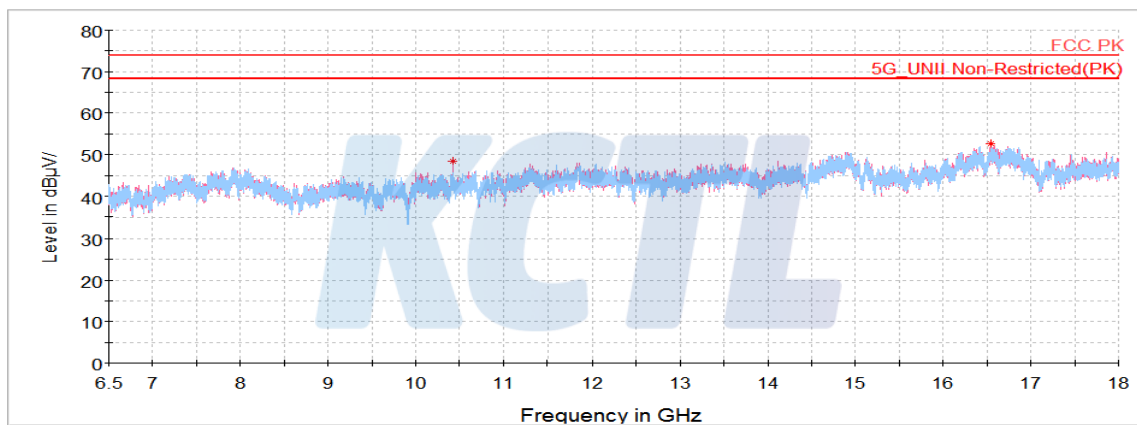
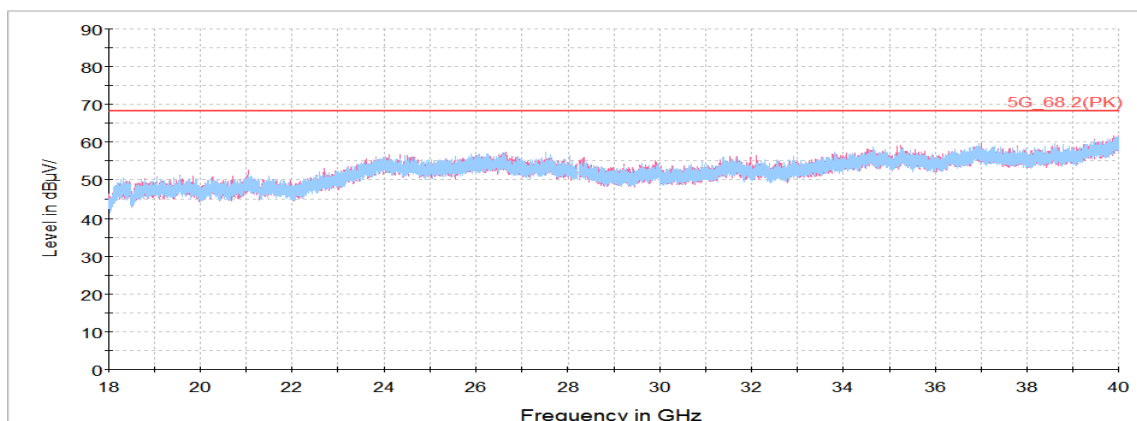


Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

802.11ac VHT80 UNII-1**Lowest Channel (5 210 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								
5 148.58 ¹⁾	H	51.40	34.24	-27.11	-	58.53	74.00	15.47
10 420.42	V	63.04	37.32	-51.84	-	48.52	68.20	19.68
16 545.97	V	56.29	41.55	-45.31	-	52.53	68.20	15.67
Average Data								
5 148.58 ¹⁾	H	43.61	34.24	-27.11	0.47	51.21	54.00	2.79

Average data**Horizontal/Vertical for Band-edge**

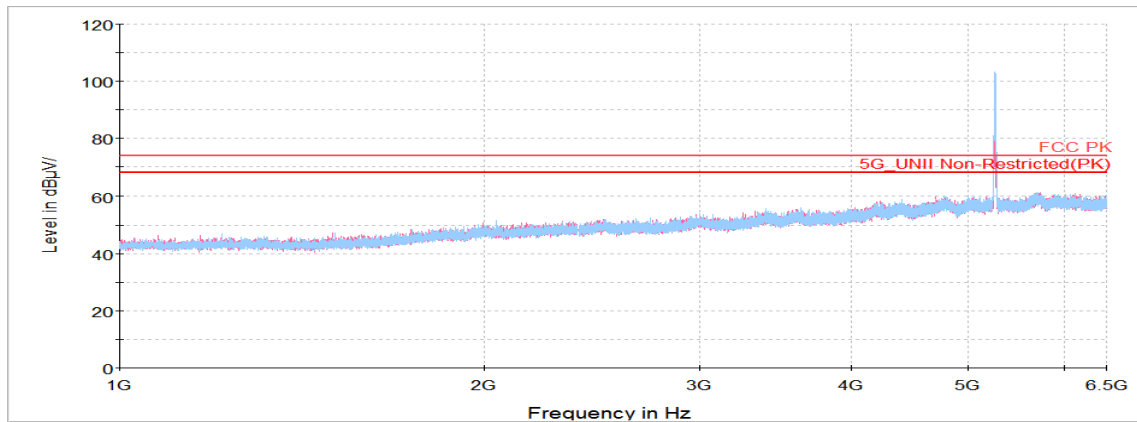
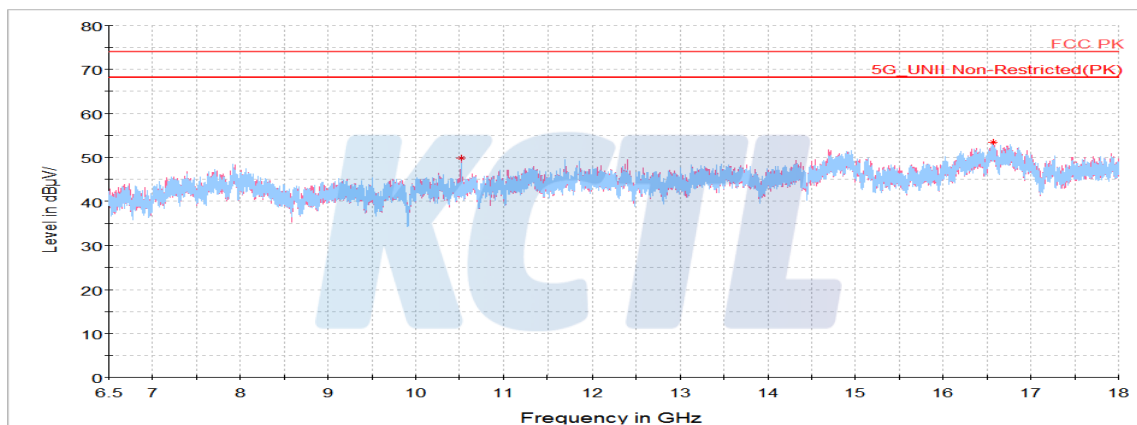
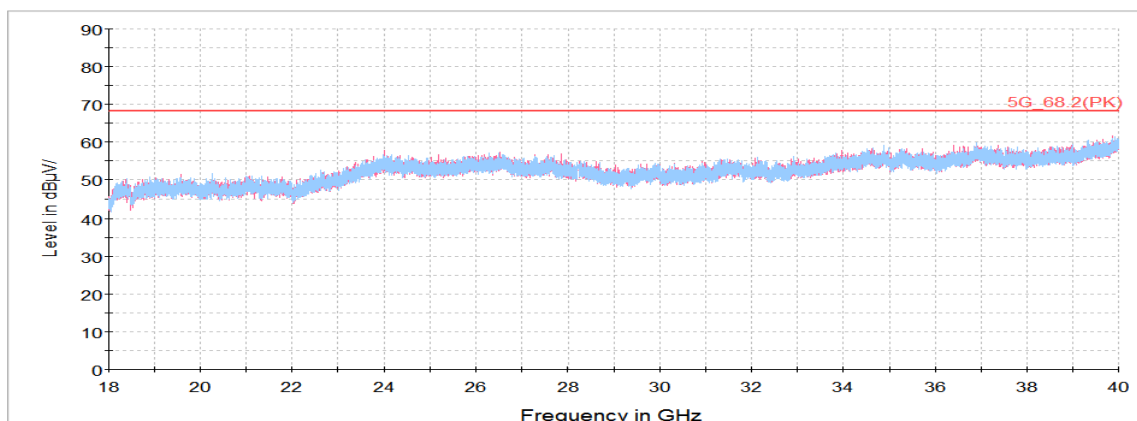
Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

802.11a UNII-2A

Lowest Channel (5 260 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								
10 519.97	V	64.01	37.41	-51.67	-	49.75	68.20	18.45
16 574.36	V	57.17	41.57	-45.41	-	53.33	68.20	14.87
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

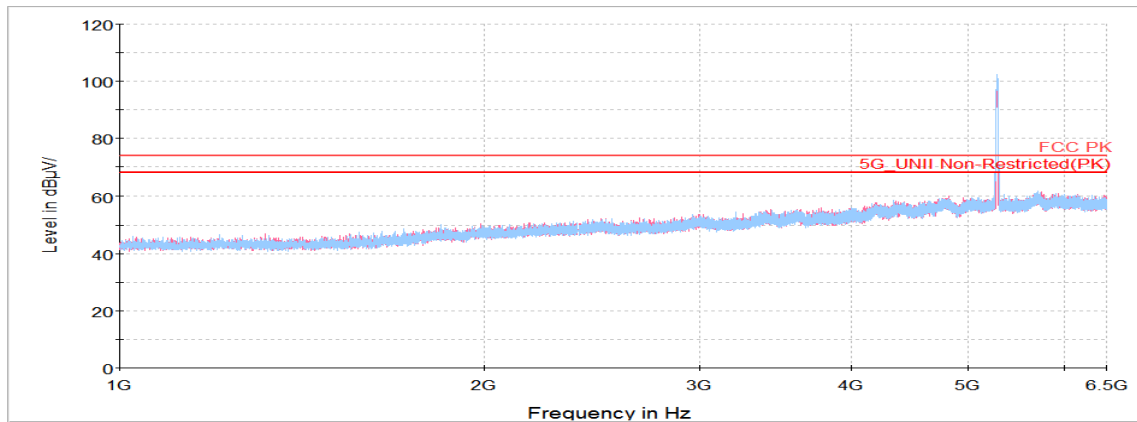
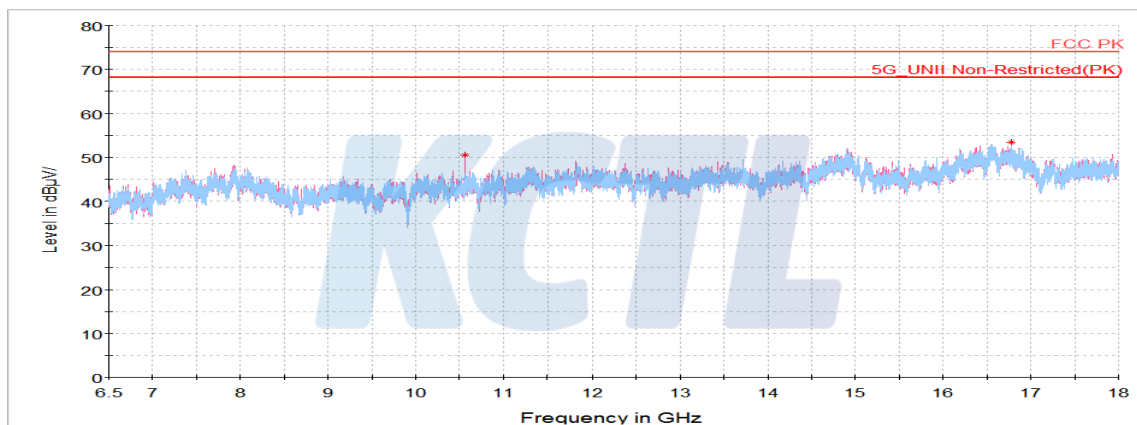
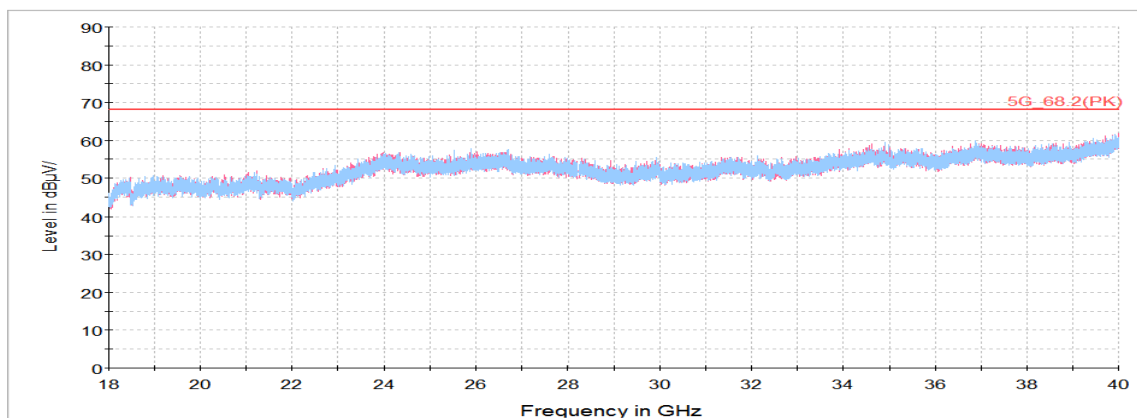


Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

Middle Channel (5 280 MHz)

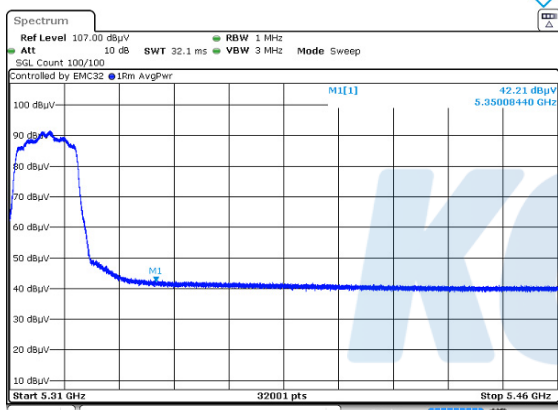
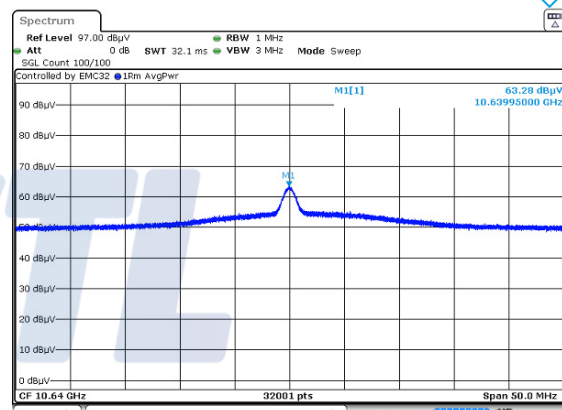
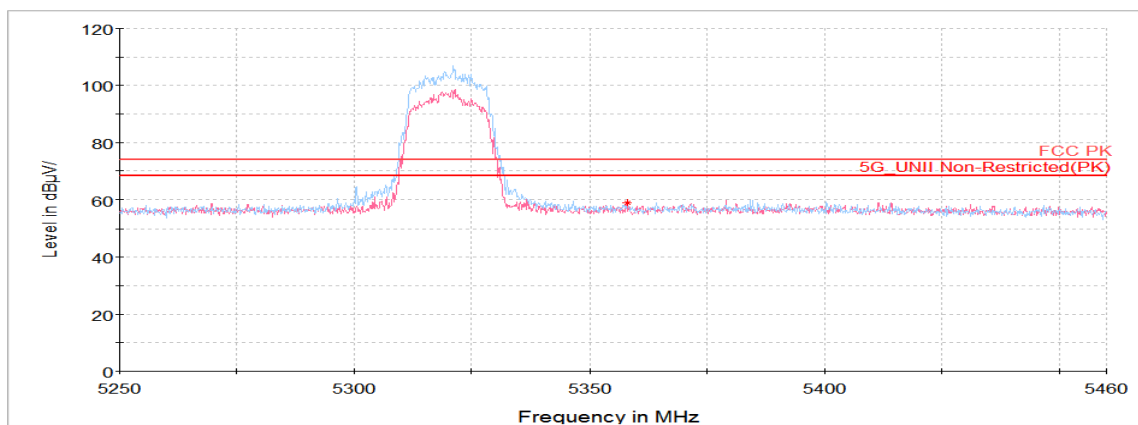
Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
10 559.86	V	64.79	37.44	-51.69	-	50.54	68.20	17.66
16 775.97	H	57.69	41.78	-46.15	-	53.32	68.20	14.88
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

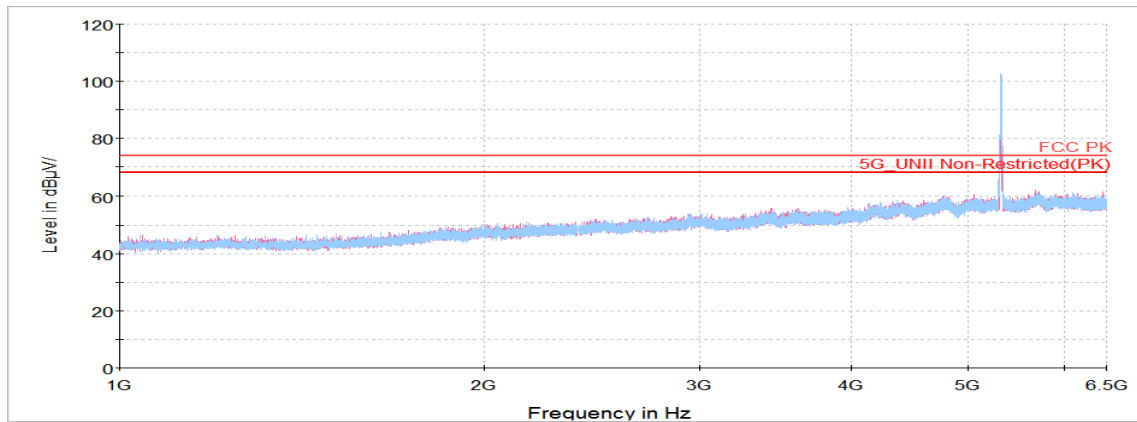
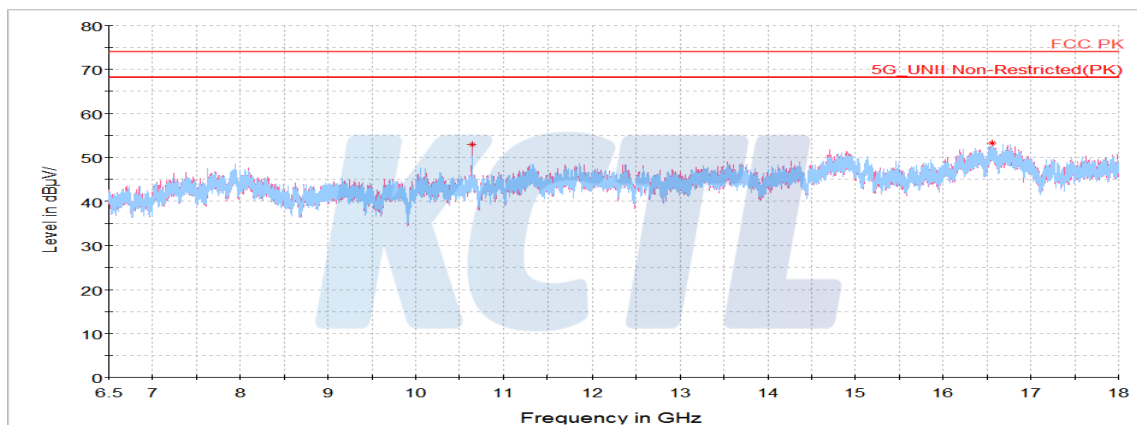
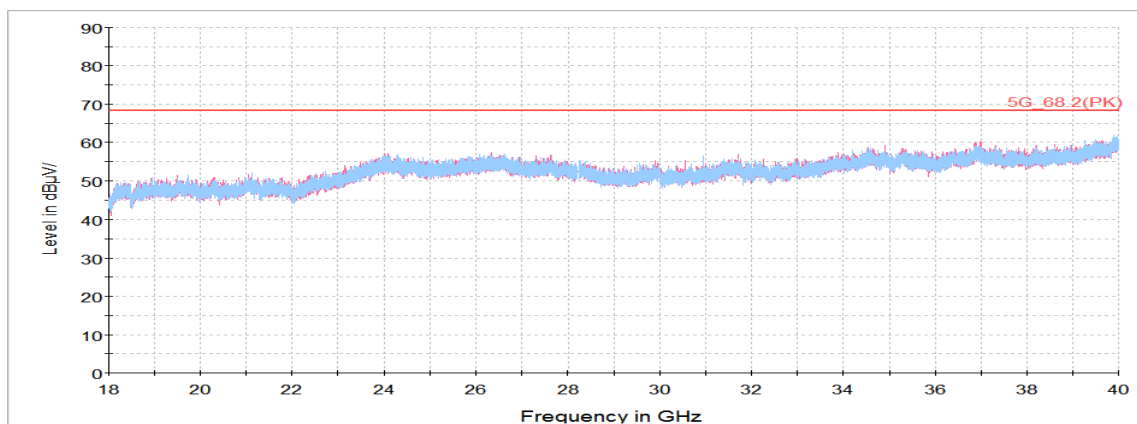


Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

Highest Channel (5 320 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								
5 350.08 ¹⁾	H	51.04	34.56	-26.84	-	58.76	74.00	15.24
10 639.95 ¹⁾	V	67.08	37.48	-51.73	-	52.83	74.00	21.17
16 558.55	V	57.01	41.56	-45.35	-	53.22	68.20	14.98
Average Data								
5 350.08 ¹⁾	H	42.21	34.56	-26.84	0.11	50.04	54.00	3.96
10 639.95 ¹⁾	V	63.28	37.48	-51.73	0.11	49.14	54.00	4.86

Average data**Average data****Horizontal/Vertical for Band-edge**

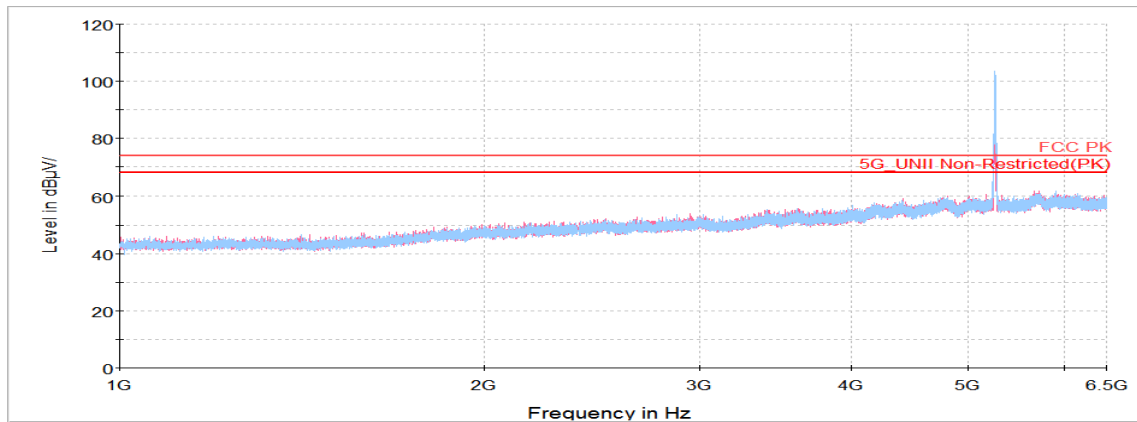
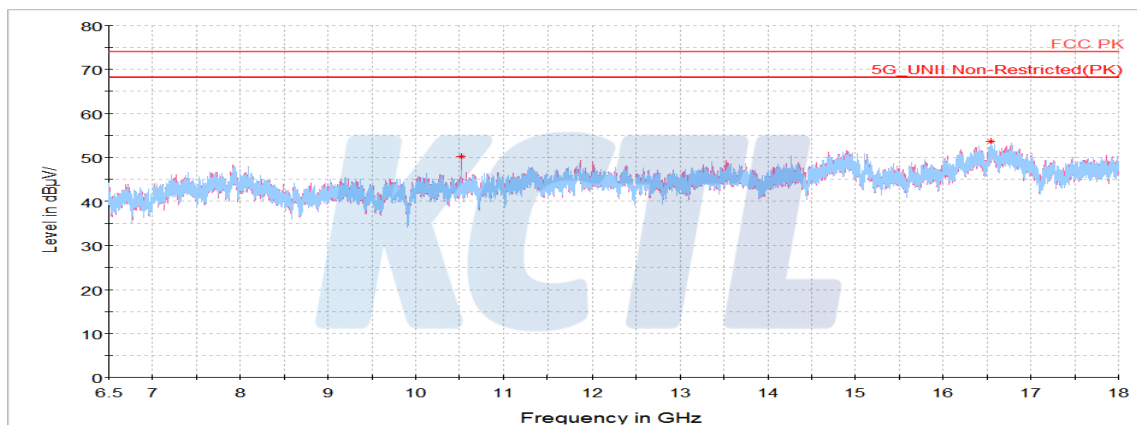
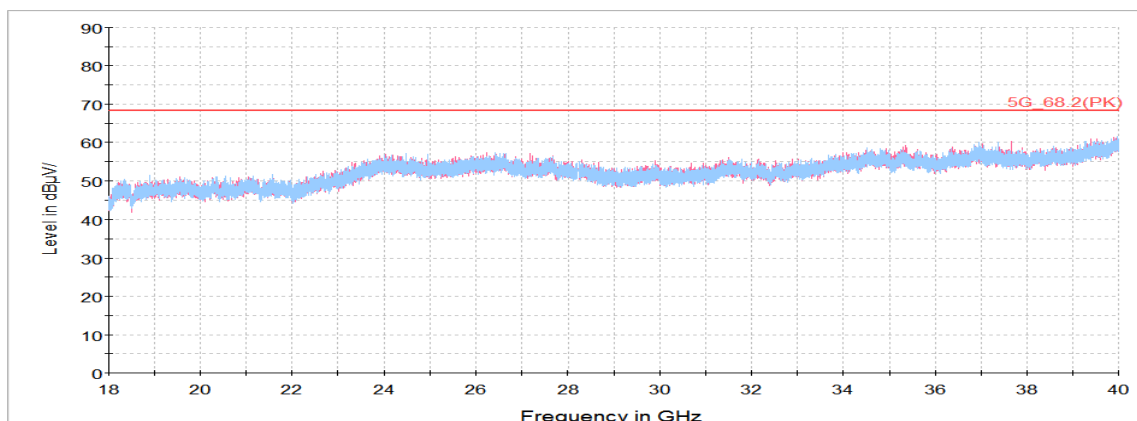
Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

802.11 HT20 UNII-2A

Lowest Channel (5 260 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								
10 519.97	V	64.45	37.41	-51.67	-	50.19	68.20	18.01
16 538.78	H	57.38	41.54	-45.28	-	53.64	68.20	14.56
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

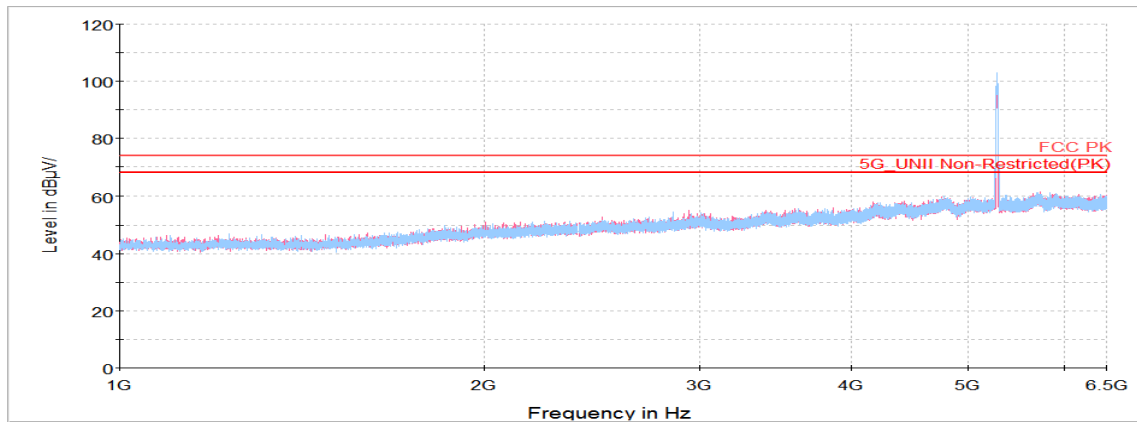
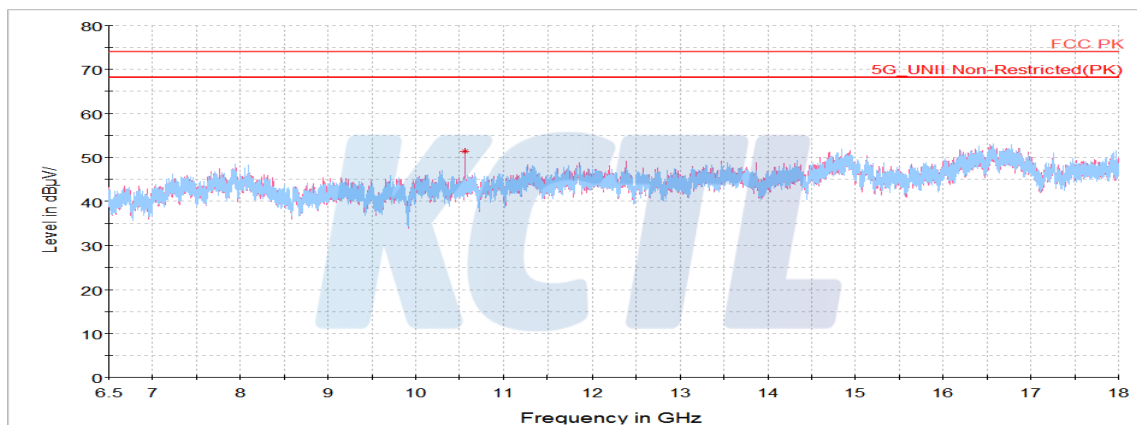
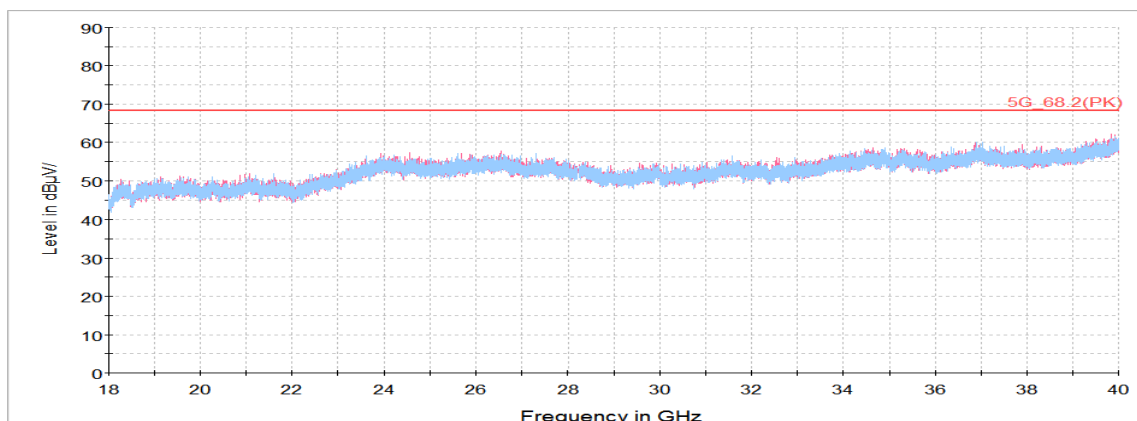
KCTL

Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

Middle Channel (5 280 MHz)

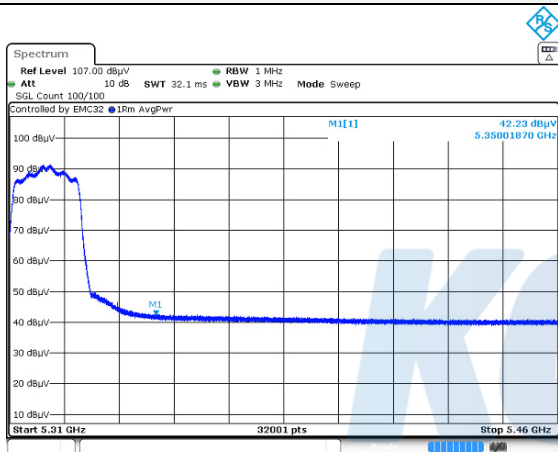
Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
10 560.22	V	65.57	37.44	-51.69	-	51.32	68.20	16.88
Average Data								
No spurious emissions were detected within 20 dB of the limit.								



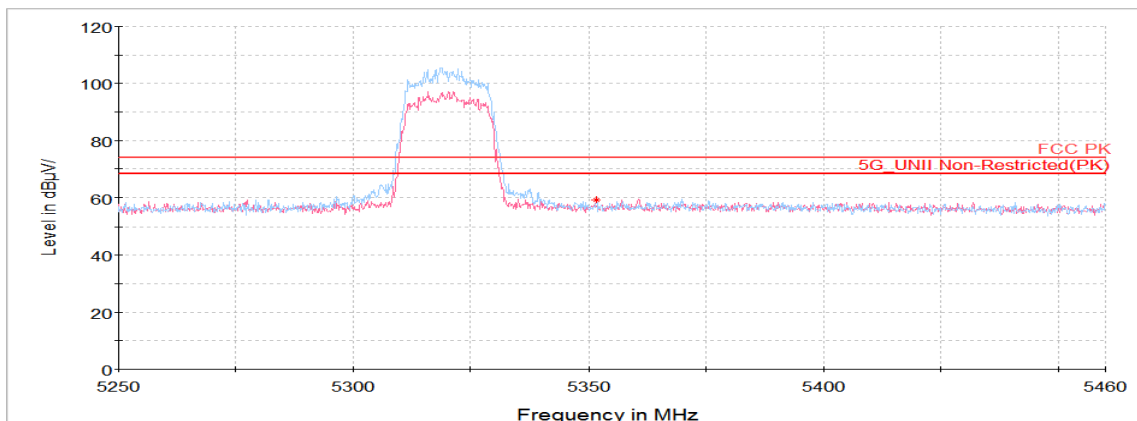
Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

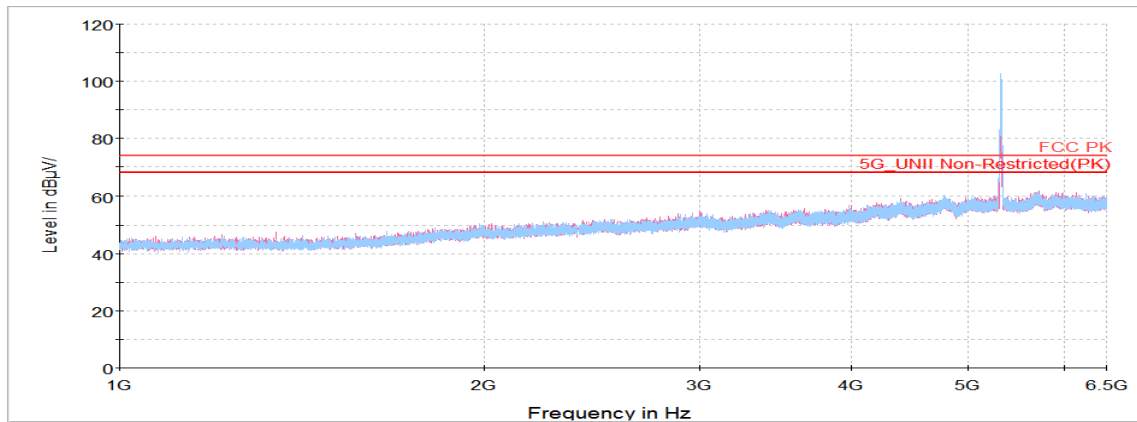
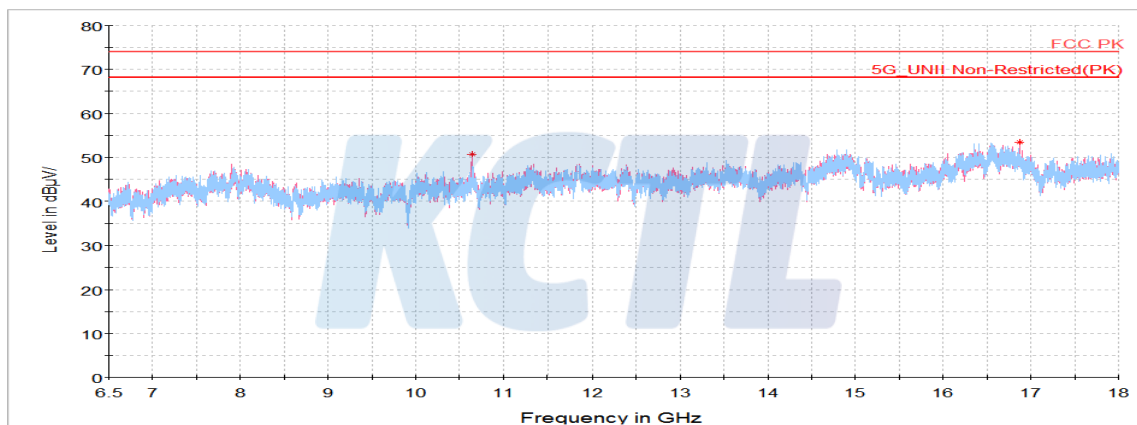
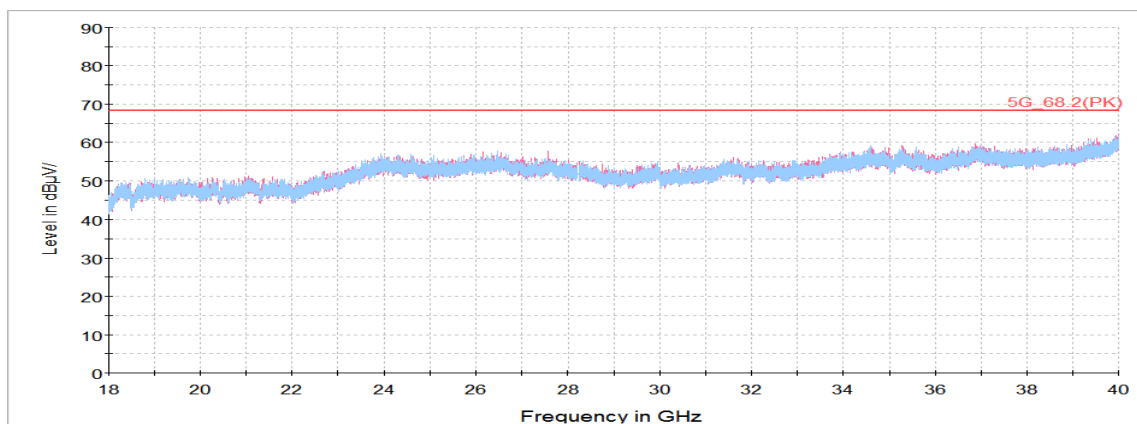
Highest Channel (5 320 MHz)

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								
5 350.02	H	51.44	34.56	-26.84	-	59.16	74.00	14.84
10 640.00 ¹⁾	V	64.92	37.48	-51.73	-	50.67	74.00	23.33
16 871.20 ¹⁾	V	58.04	41.87	-46.50	-	53.41	68.20	14.79
Average Data								
5 350.21 ¹⁾	V	42.23	34.56	-26.84	0.13	50.08	54.00	3.92

Average data

Blank

Horizontal/Vertical for Band-edge

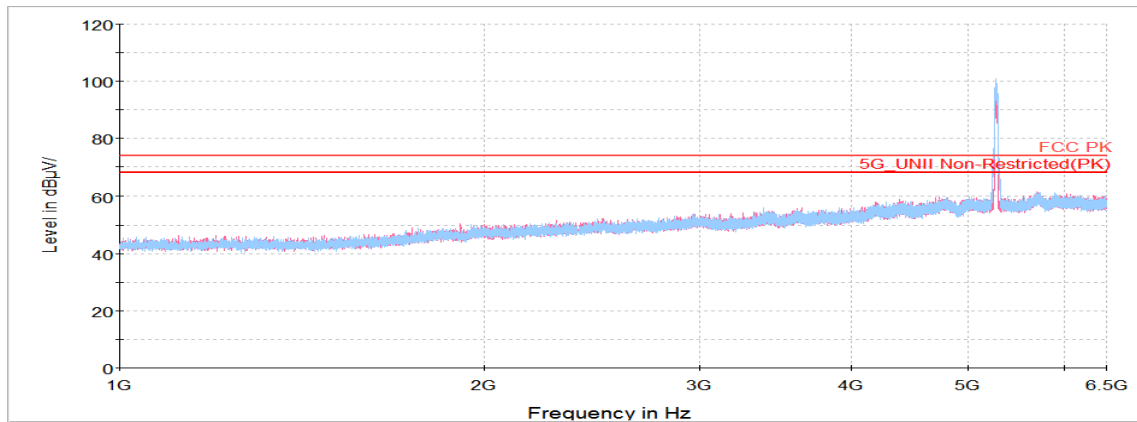
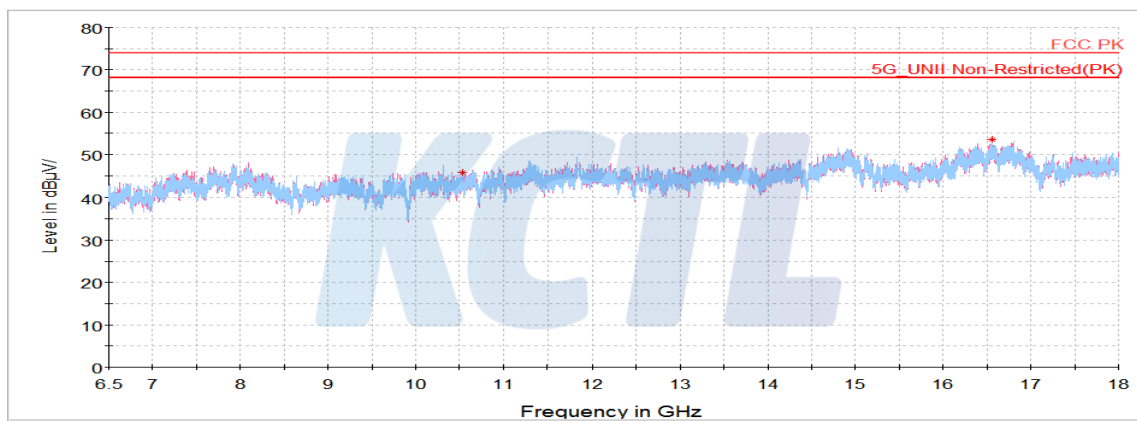
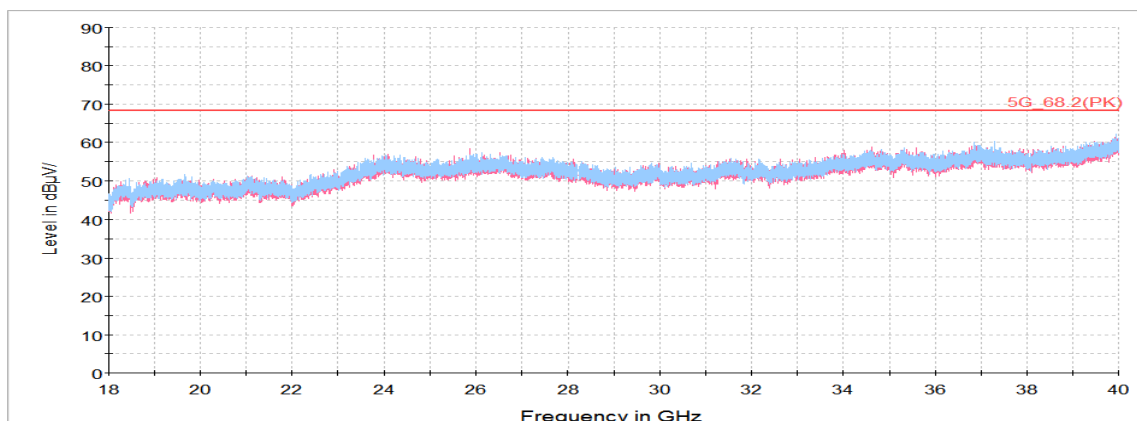
Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

802.11 HT40 UNII-2A

Lowest Channel (5 270 MHz)

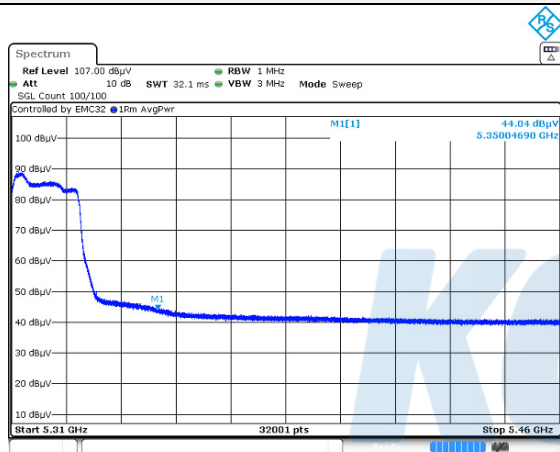
Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μ V))	(dB)	(dB)	(dB)	(dB(μ V/m))	(dB(μ V/m))	(dB)
Peak data								
10 532.19	V	60.08	37.42	-51.68	-	45.82	68.20	22.38
16 559.63	V	57.40	41.56	-45.36	-	53.60	68.20	14.60
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

KCTL

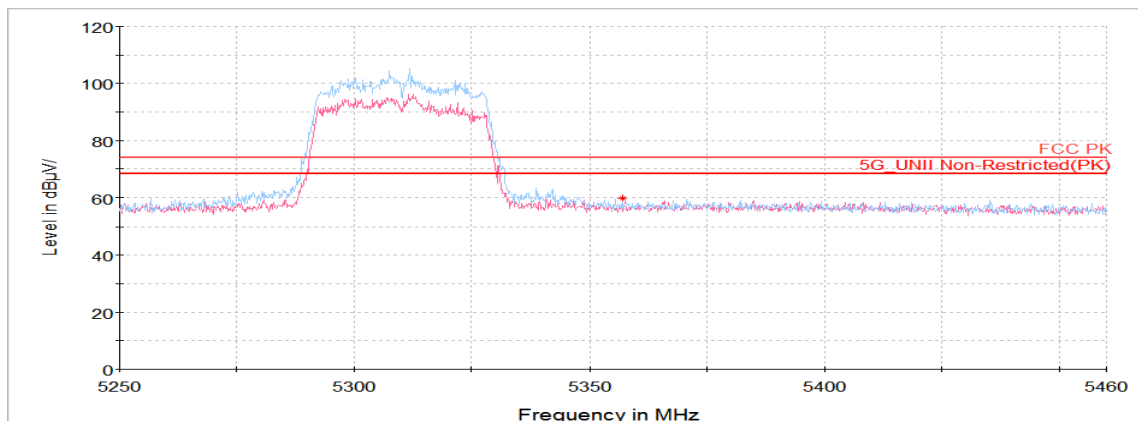
Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

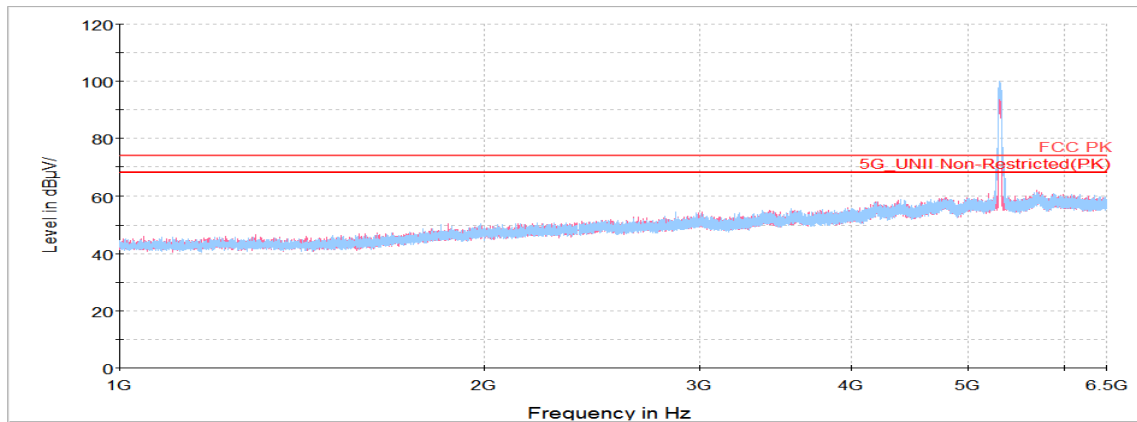
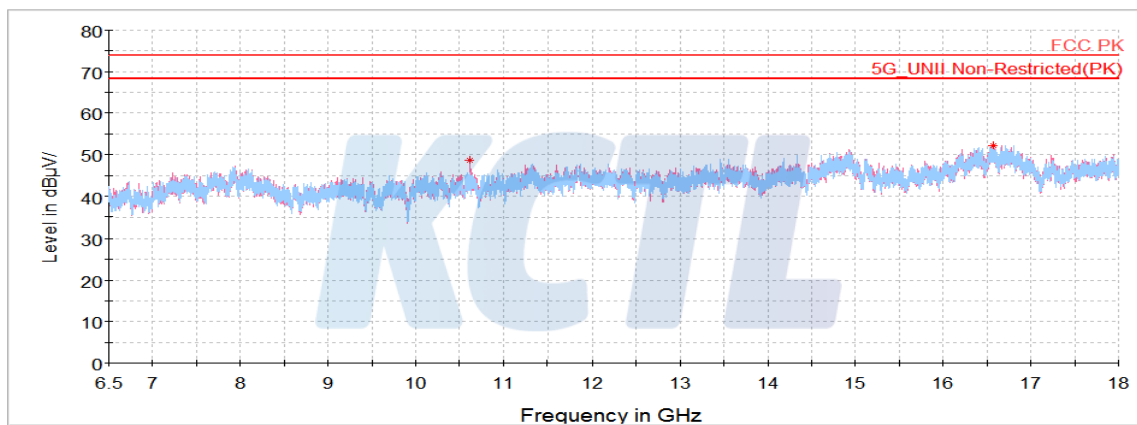
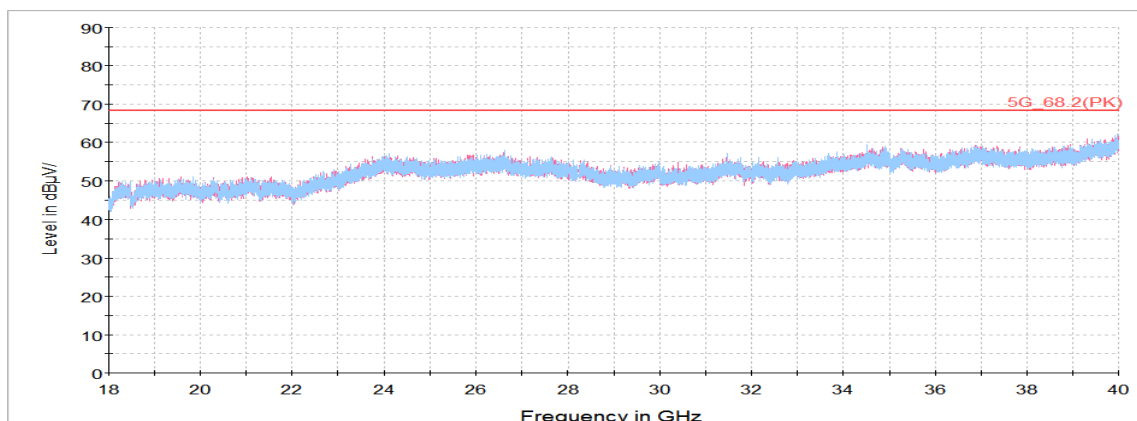
Highest Channel (5 310 MHz)

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								
5 350.05 ¹⁾	H	51.93	34.56	-26.84	-	59.65	74.00	14.35
10 619.88 ¹⁾	V	62.94	37.47	-51.72	-	48.69	74.00	25.31
16 573.64	V	56.07	41.57	-45.41	-	52.23	68.20	15.97
Average Data								
5 350.05 ¹⁾	H	44.04	34.56	-26.84	0.23	51.99	54.00	2.01

Average data

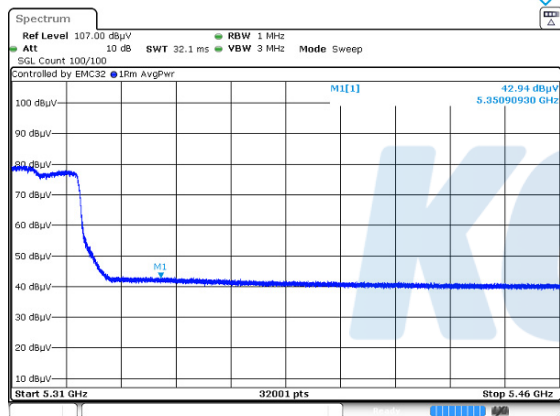
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Horizontal/Vertical for Band-edge

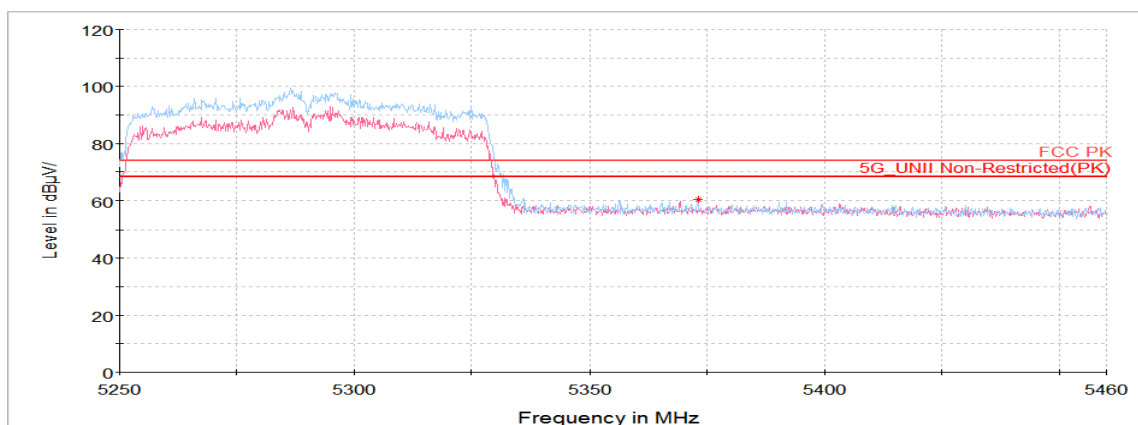
Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

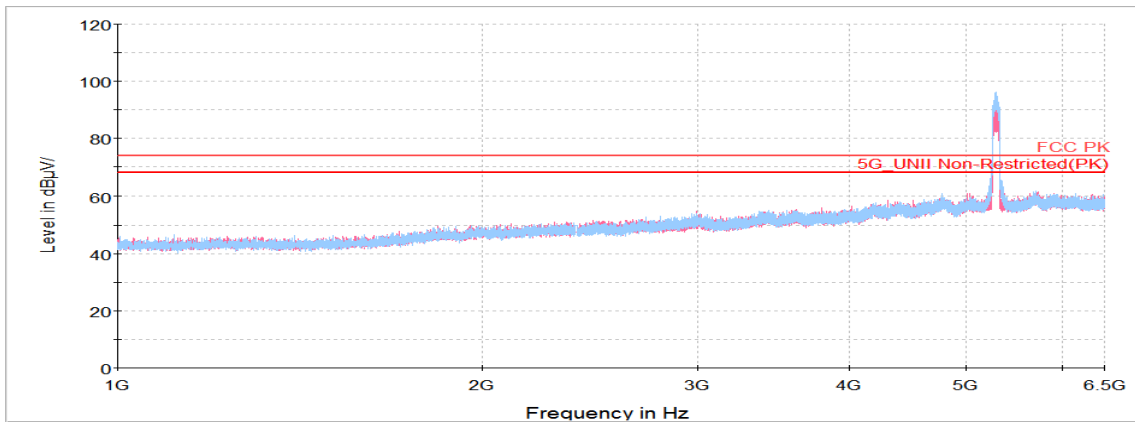
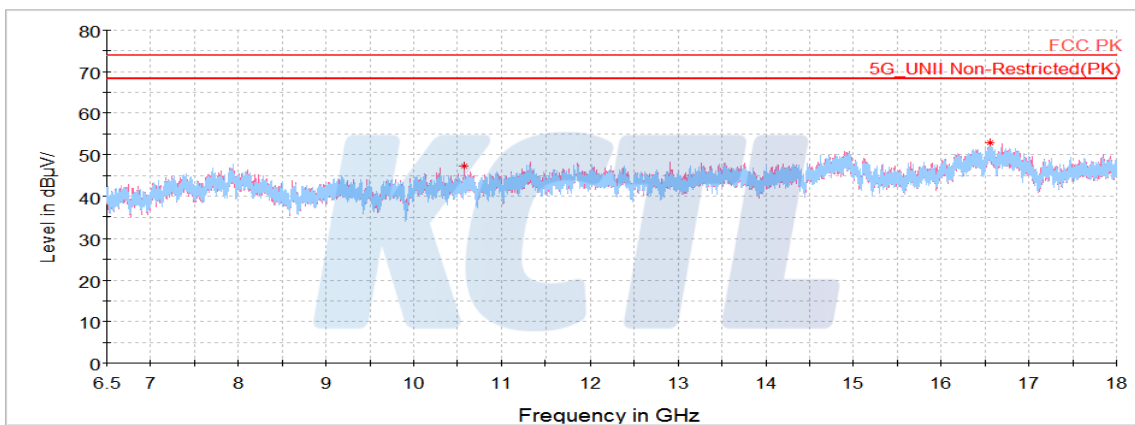
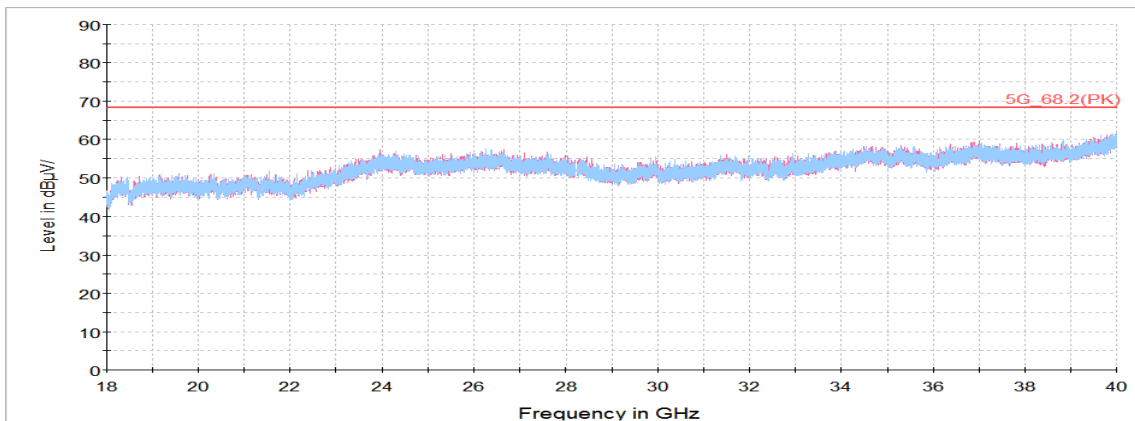
802.11ac VHT80 UNII-2A**Lowest Channel (5 290 MHz)**

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								
5 350.91 ¹⁾	H	52.63	34.56	-26.84	-	60.35	74.00	13.65
10 579.98	V	61.44	37.45	-51.70	-	47.19	68.20	21.01
16 553.88	H	56.68	41.55	-45.33	-	52.90	68.20	15.30
Average Data								
5 350.91 ¹⁾	H	42.94	34.56	-26.84	0.47	51.13	54.00	2.87

Average data

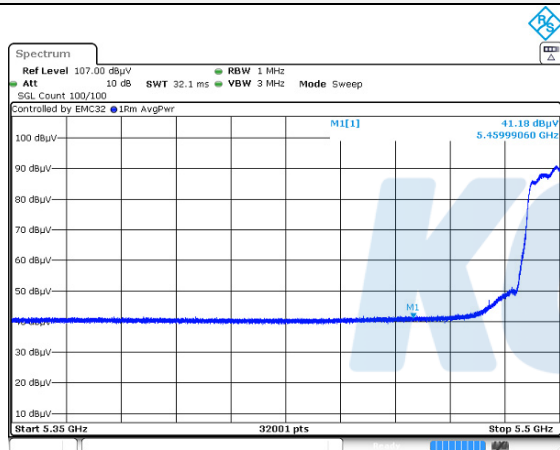
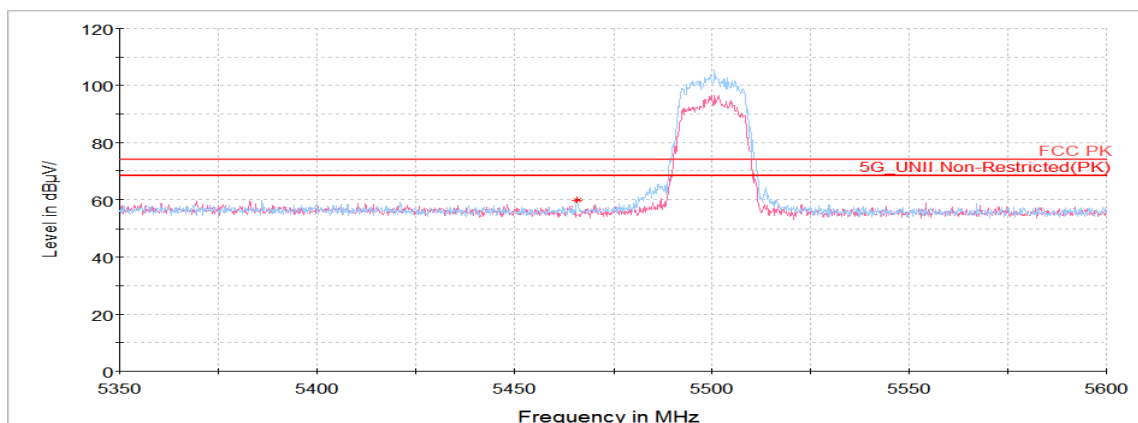
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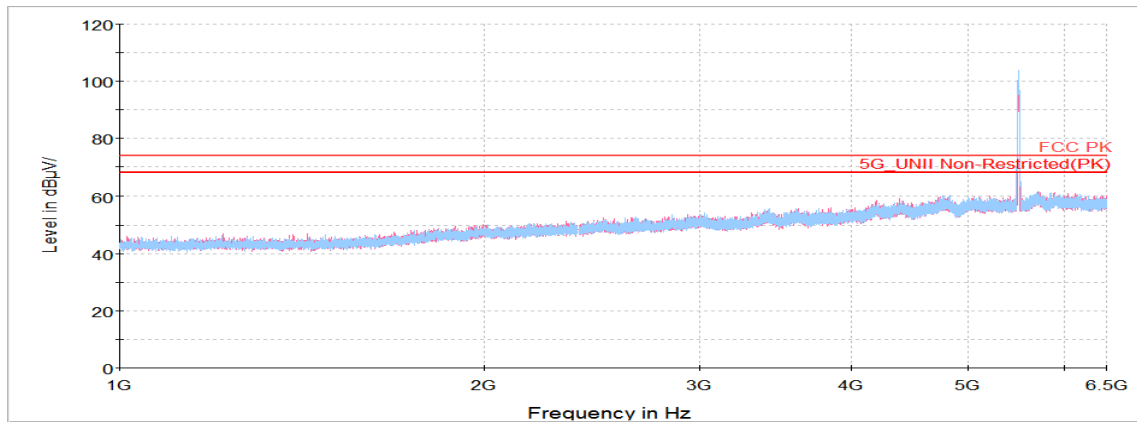
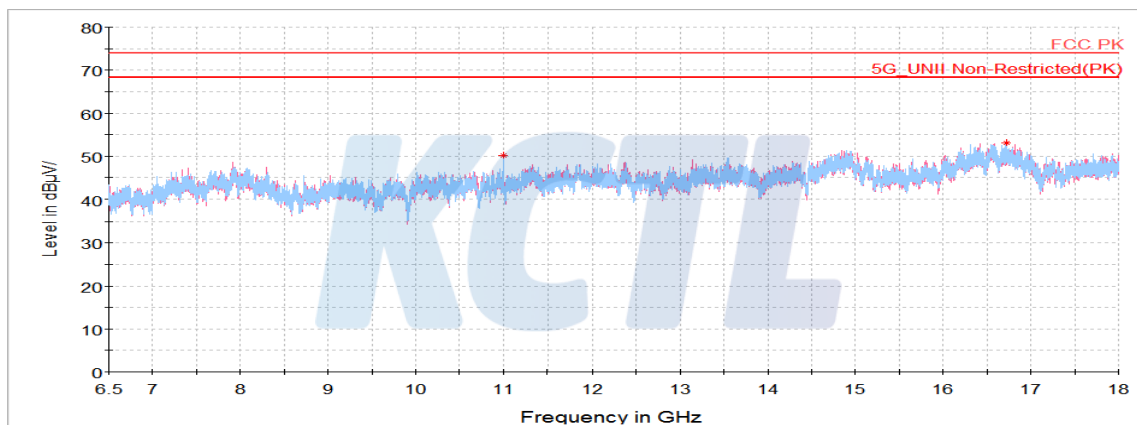
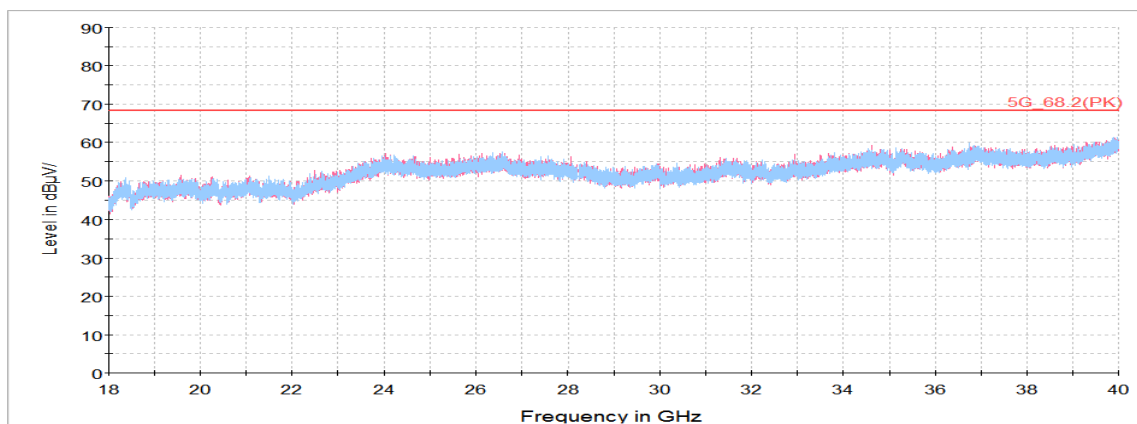
Horizontal/Vertical for Band-edge

Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

802.11a UNII-2C**Lowest Channel (5 500 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								
5 459.99 ¹⁾	H	52.21	34.74	-27.35	-	59.60	74.00	14.40
11 000.09 ¹⁾	H	64.39	37.70	-51.90	-	50.19	74.00	23.81
16 725.30	V	57.39	41.73	-45.96	-	53.16	68.20	15.04
Average Data								
5 459.98 ¹⁾	H	41.18	34.74	-27.35	0.11	48.68	54.00	5.32

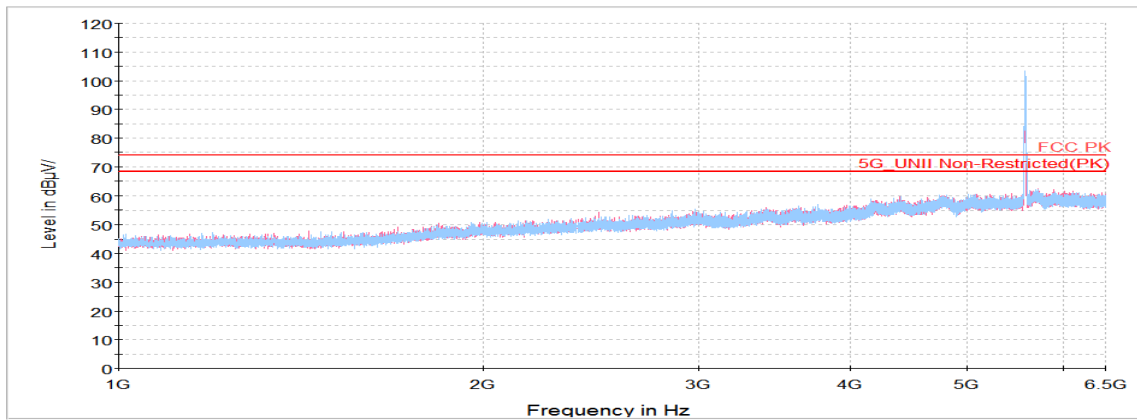
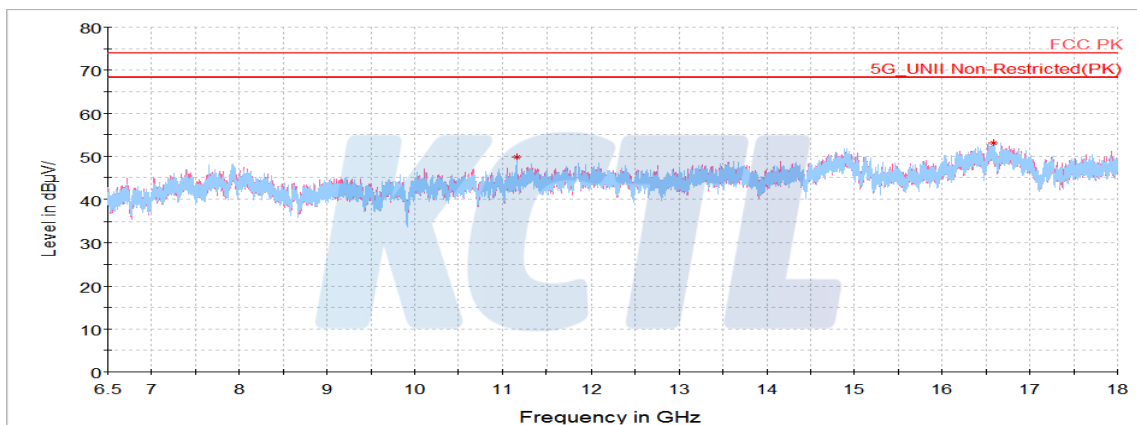
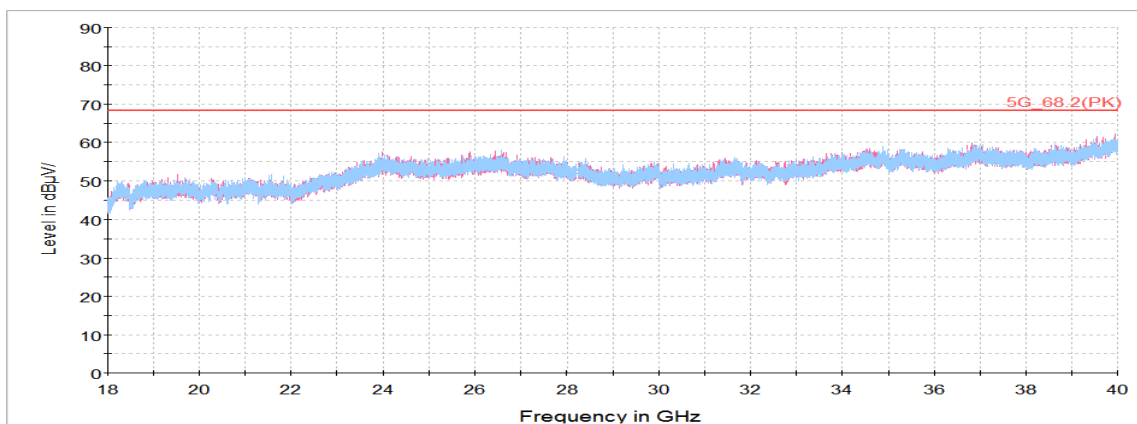
Average data**Horizontal/Vertical for Band-edge**

Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

Middle Channel (5 580 MHz)

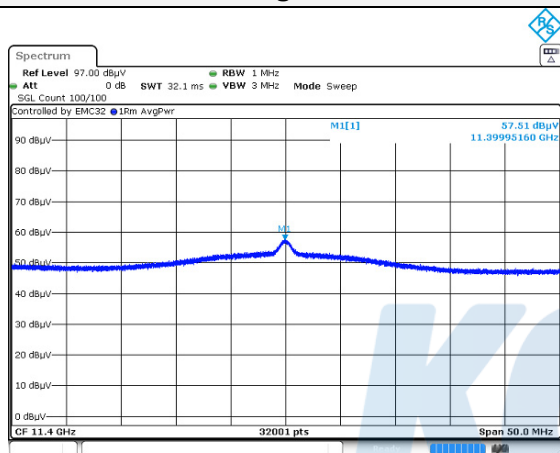
Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
11 160.02 ¹⁾	H	63.15	37.80	-51.18	-	49.77	74.00	24.23
16 588.02	V	57.04	41.59	-45.46	-	53.17	68.20	15.03
Average Data								
No spurious emissions were detected within 20 dB of the limit.								



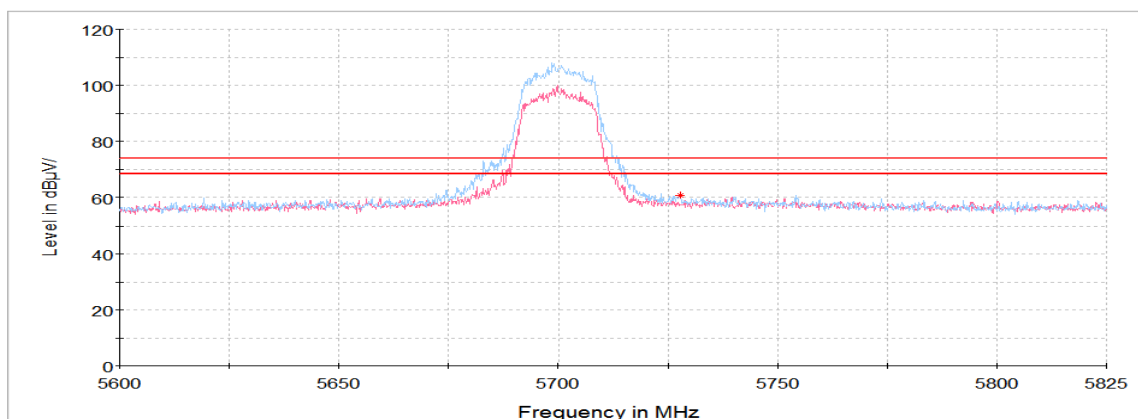
Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

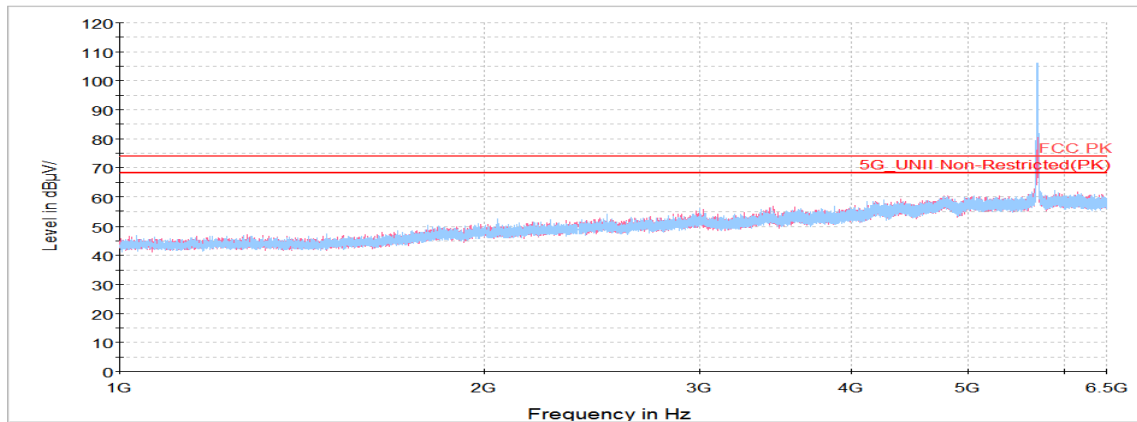
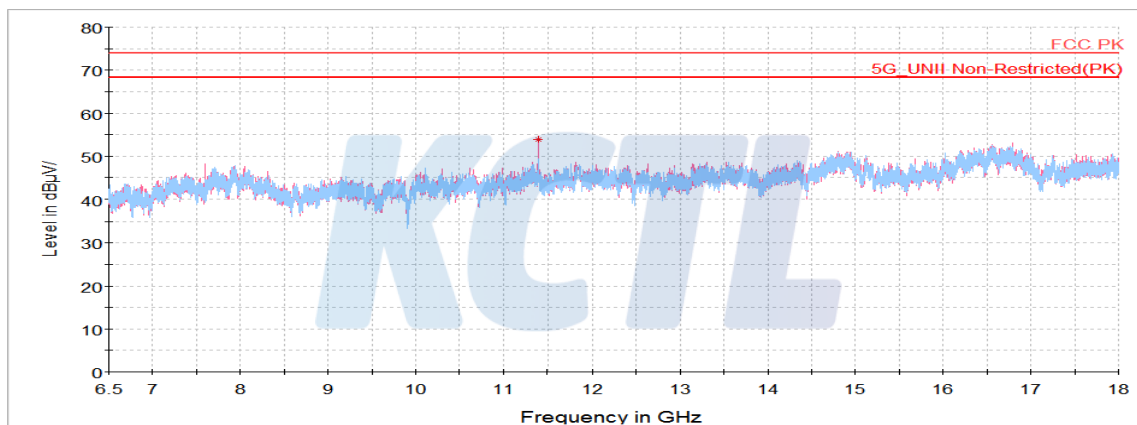
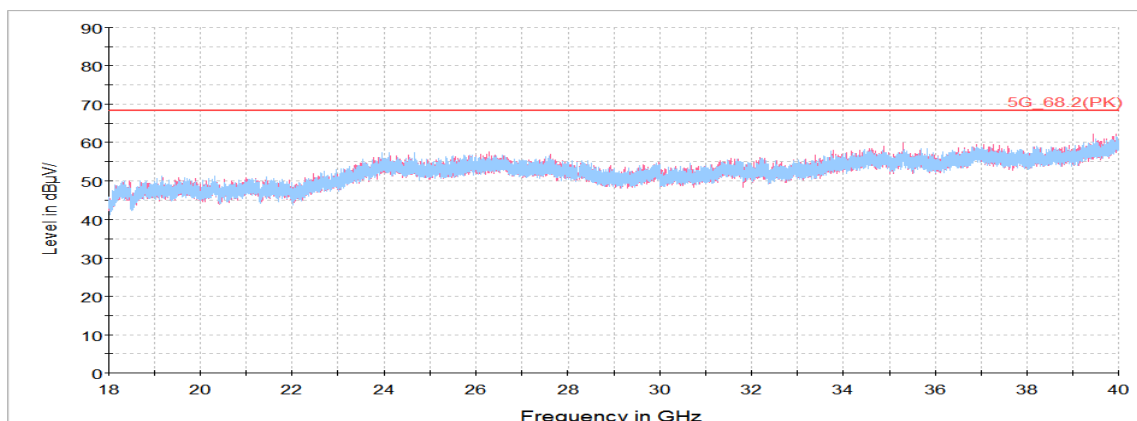
Highest Channel (5 700 MHz)

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								
5 727.77	H	51.50	35.07	-25.96	-	60.61	68.20	7.59
11 399.95 ¹⁾	V	66.11	37.94	-50.11	-	53.94	74.00	20.06
Average Data								
11 399.95 ¹⁾	V	57.51	37.94	-50.11	0.11	45.45	54.00	8.55

Average data

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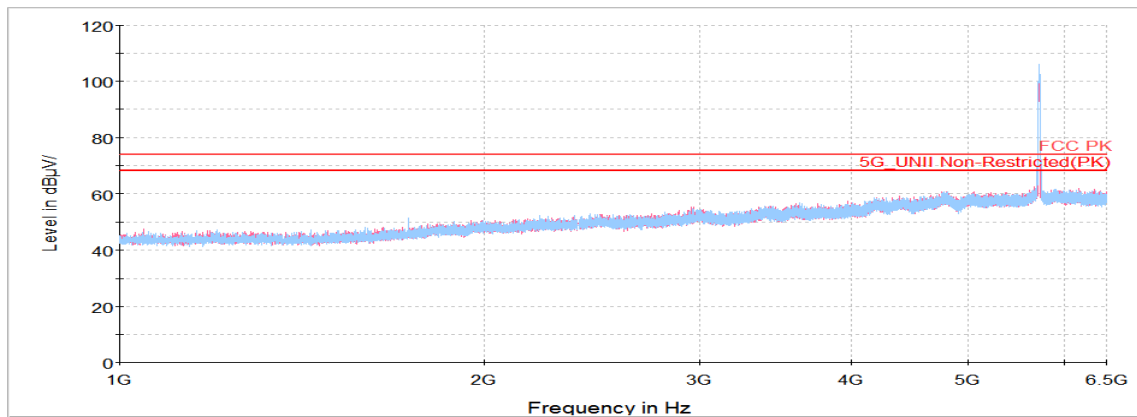
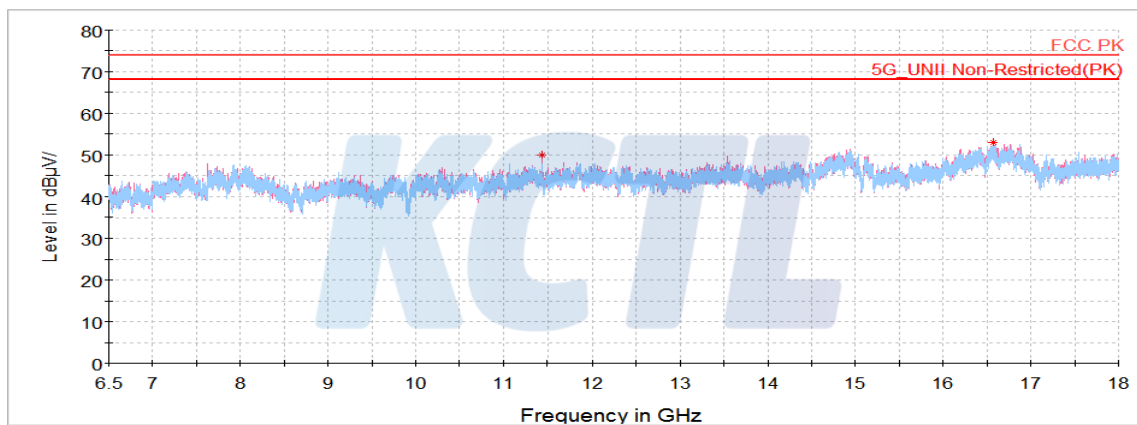
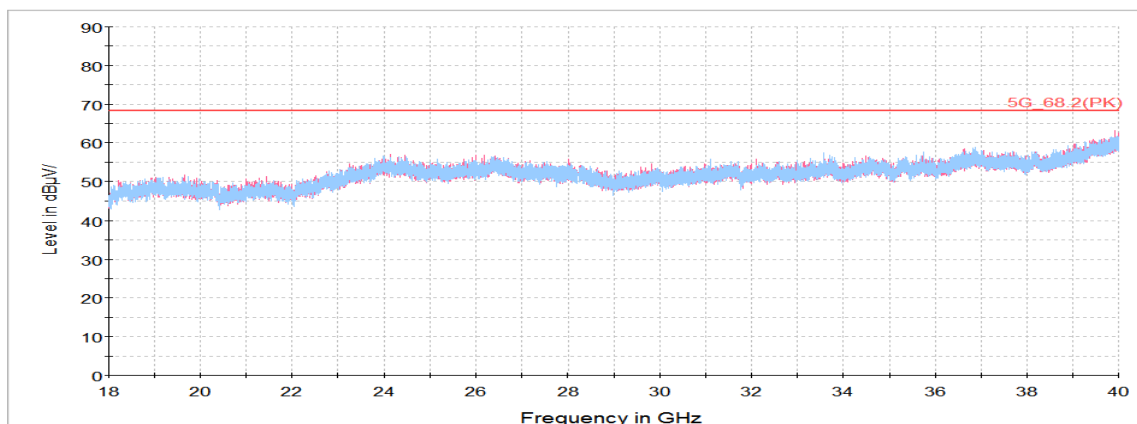
Horizontal/Vertical for Band-edge

Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

Straddle Channel (5 720 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								
11 440.33 ¹⁾	V	61.90	37.96	-49.93	-	49.93	74.00	24.07
16 574.00	V	56.86	41.57	-45.41	-	53.02	68.20	15.18
Average Data								
No spurious emissions were detected within 20 dB of the limit.								



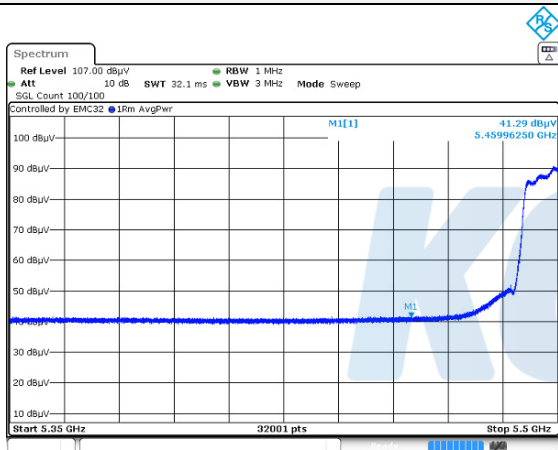
Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

802.11 HT20 UNII-2C

Lowest Channel (5 500 MHz)

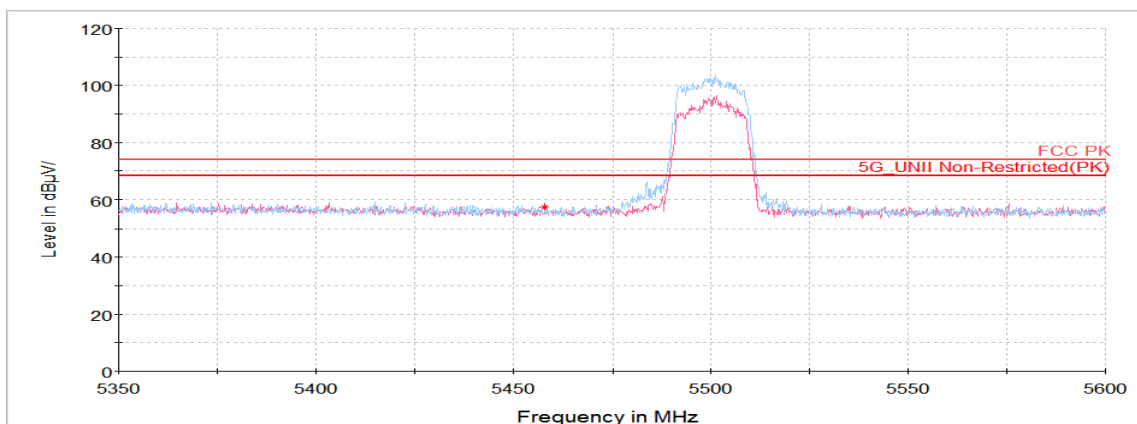
Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
5 459.96 ¹⁾	H	49.93	34.74	-27.35	-	57.32	74.00	16.68
11 000.45 ¹⁾	V	64.63	37.70	-51.90	-	50.43	74.00	23.57
16 577.23	H	56.84	41.58	-45.42	-	53.00	68.20	15.20
Average Data								
5 459.96 ¹⁾	H	41.29	34.74	-27.35	0.13	48.81	54.00	5.19

Average data

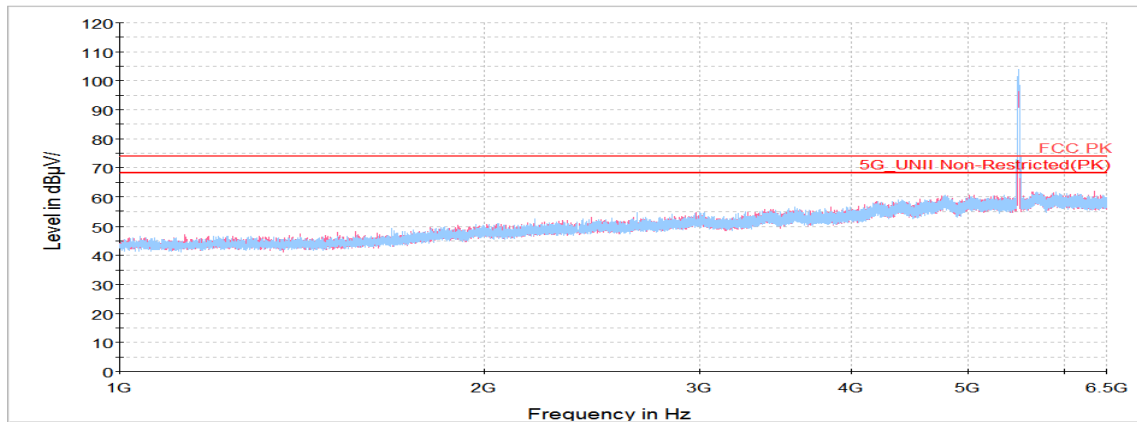
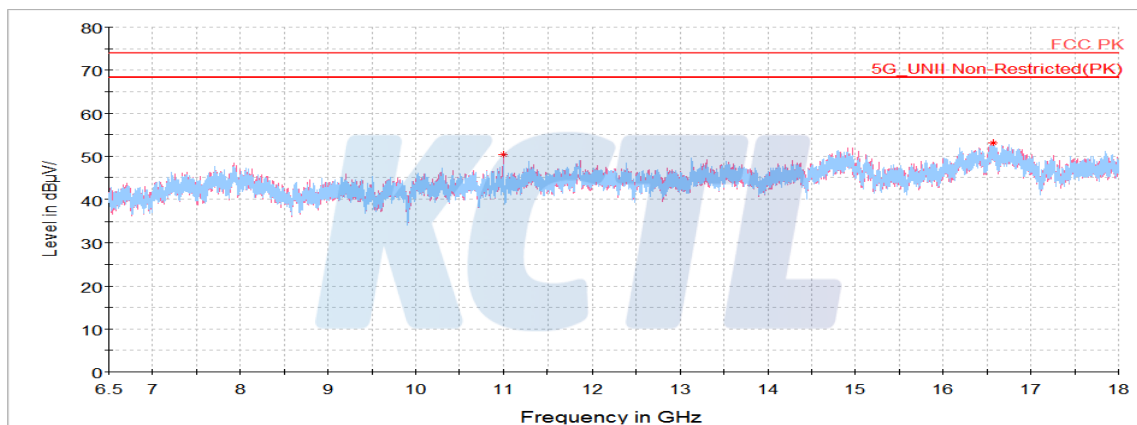
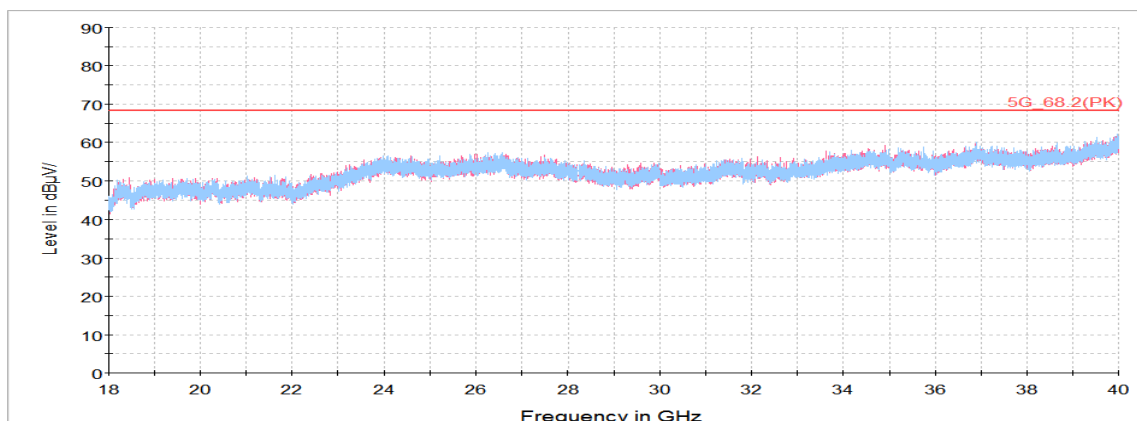


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Horizontal/Vertical for Band-edge

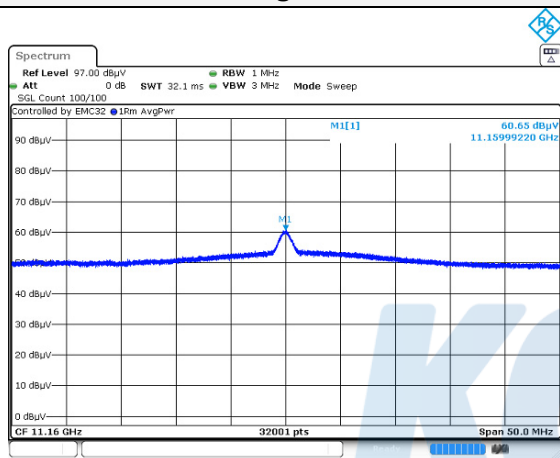


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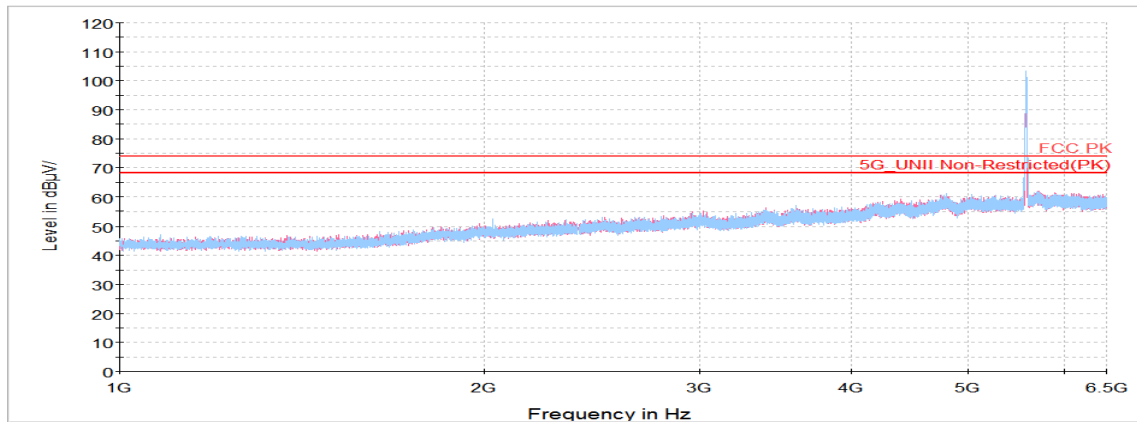
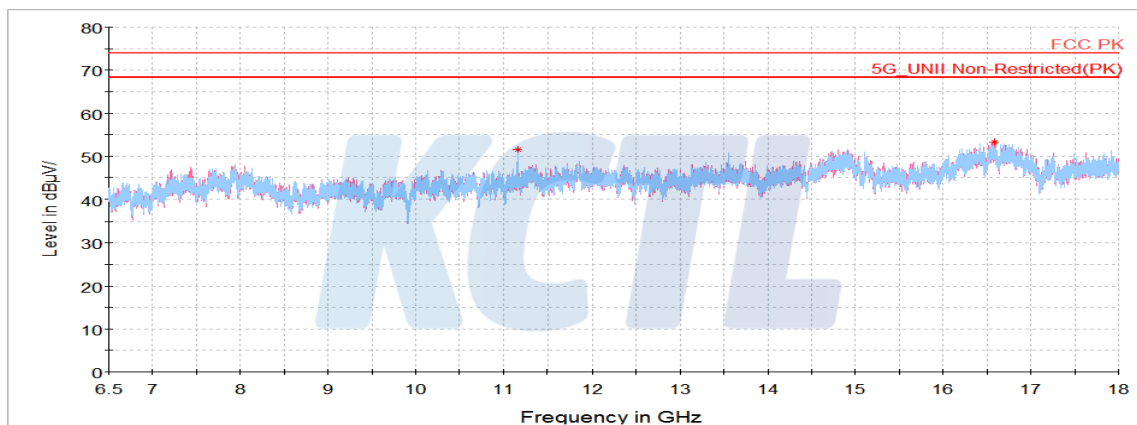
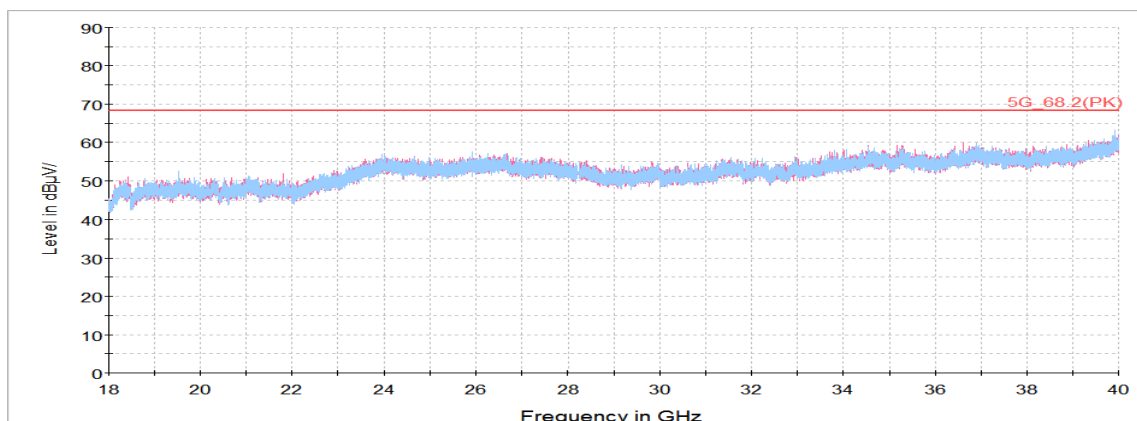
Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

Middle Channel (5 580 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								
11 159.99 ¹⁾	H	64.94	37.80	-51.18	-	51.56	74.00	22.44
16 589.09	V	57.05	41.59	-45.46	-	53.18	68.20	15.02
Average Data								
11 159.99 ¹⁾	H	60.65	37.80	-51.18	0.13	47.40	54.00	6.60

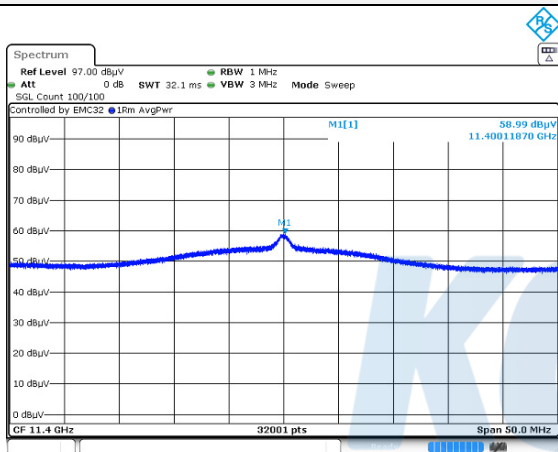
Average data

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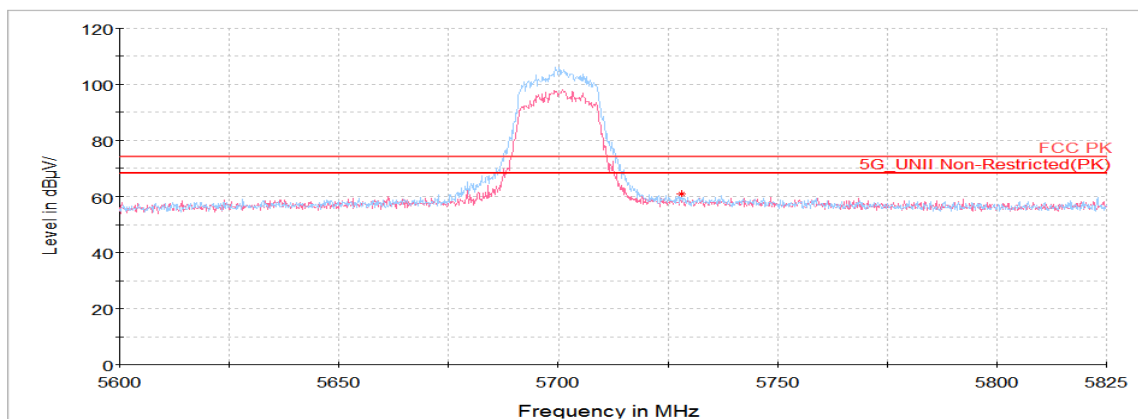
Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

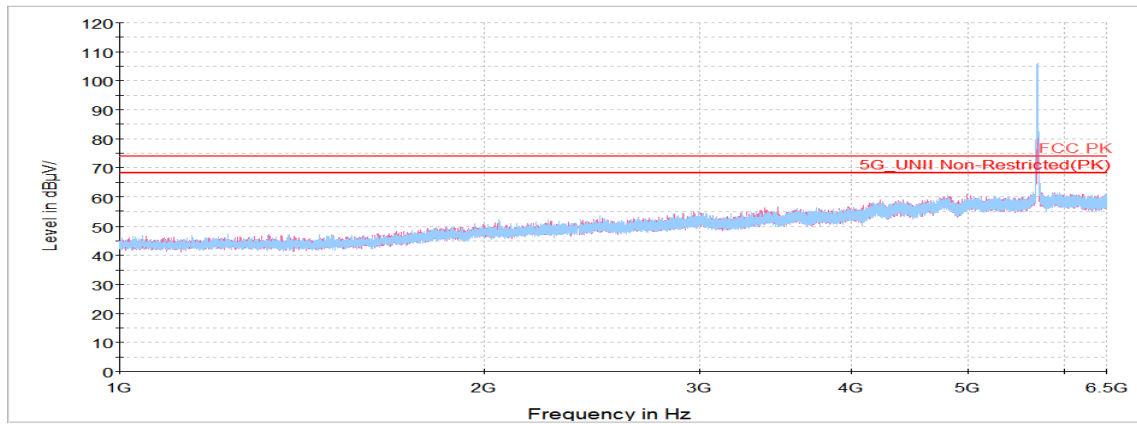
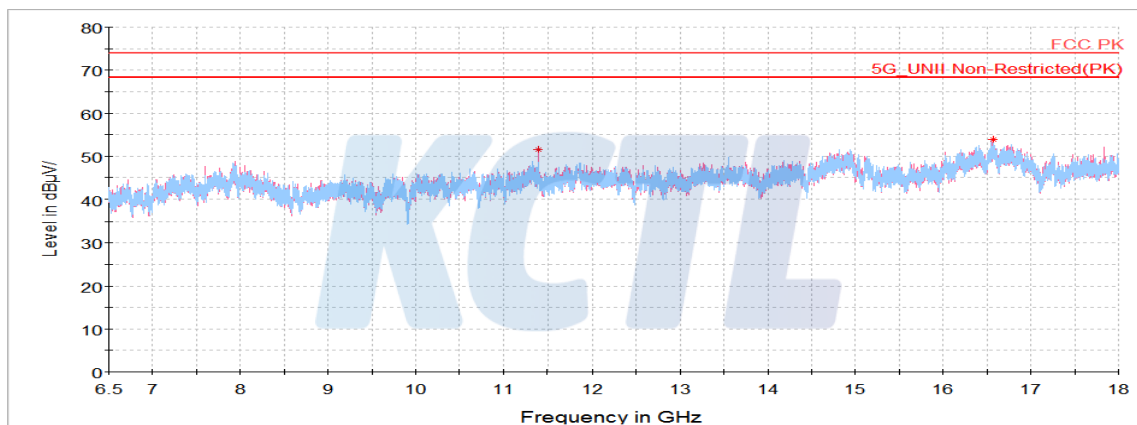
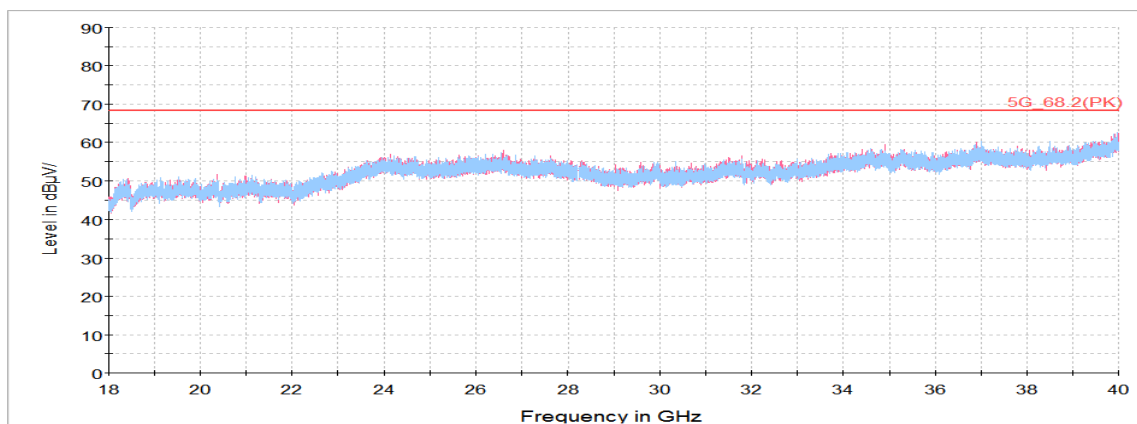
Highest Channel (5 700 MHz)

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								
5 728.11	H	51.75	35.07	-25.96	-	60.86	68.20	7.34
11 400.12 ¹⁾	V	63.68	37.94	-50.11	-	51.51	74.00	22.49
16 572.56	H	57.73	41.57	-45.40	-	53.90	68.20	14.30
Average Data								
11 400.12 ¹⁾	V	58.99	37.94	-50.11	0.13	46.95	54.00	7.05

Average data

Blank

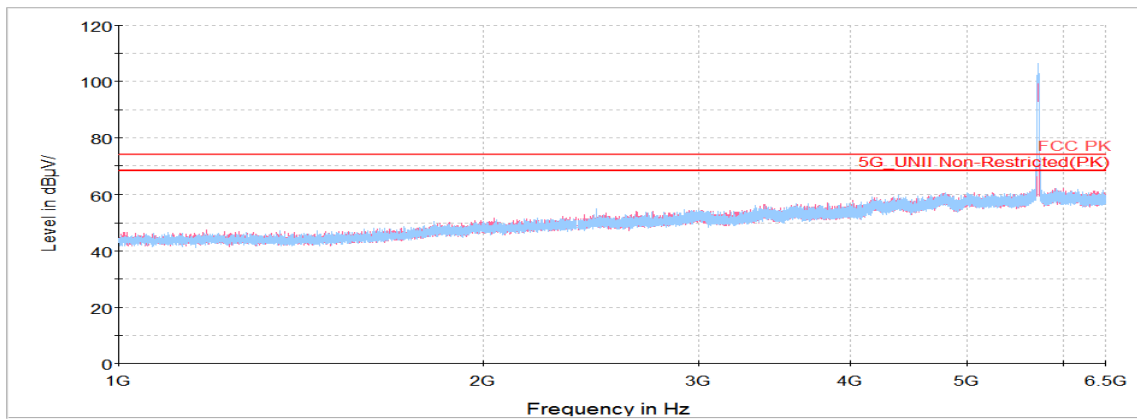
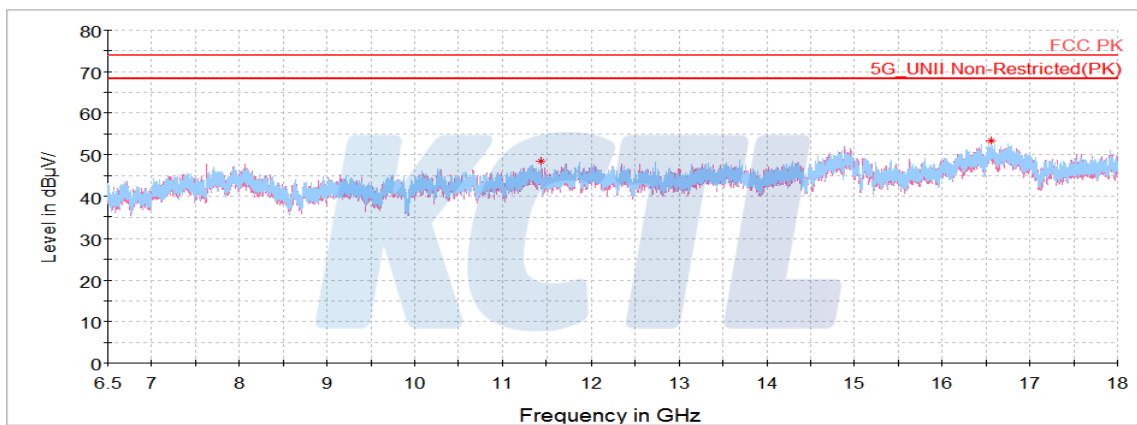
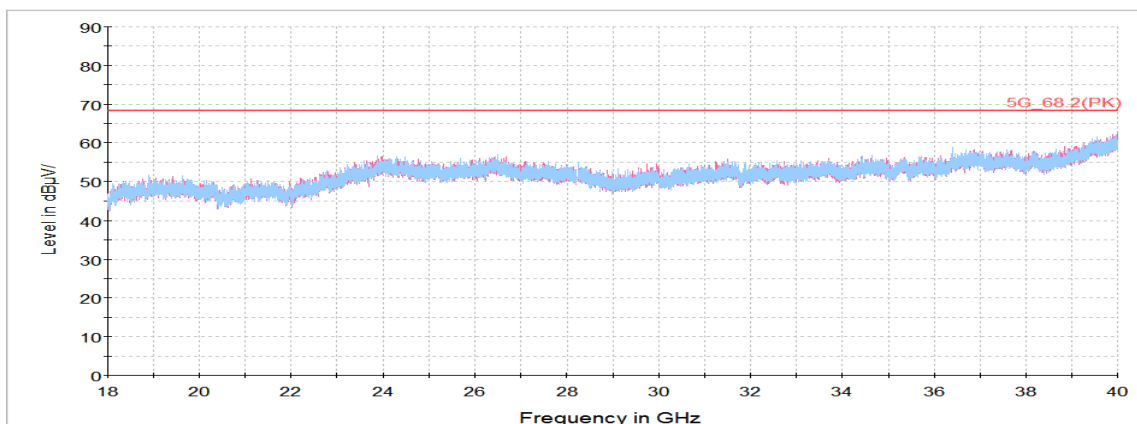
Horizontal/Vertical for Band-edge

Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

Straddle Channel (5 720 MHz)

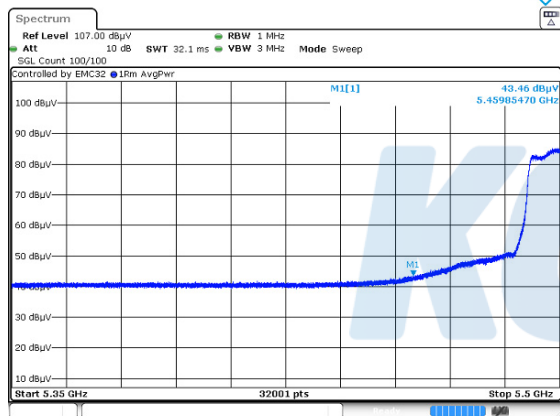
Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μ V))	(dB)	(dB)	(dB)	(dB(μ V/m))	(dB(μ V/m))	(dB)
Peak data								
11 439.97 ¹⁾	V	60.37	37.96	-49.93	-	48.40	74.00	25.60
16 559.98	H	57.08	41.56	-45.36	-	53.28	68.20	14.92
Average Data								
No spurious emissions were detected within 20 dB of the limit.								



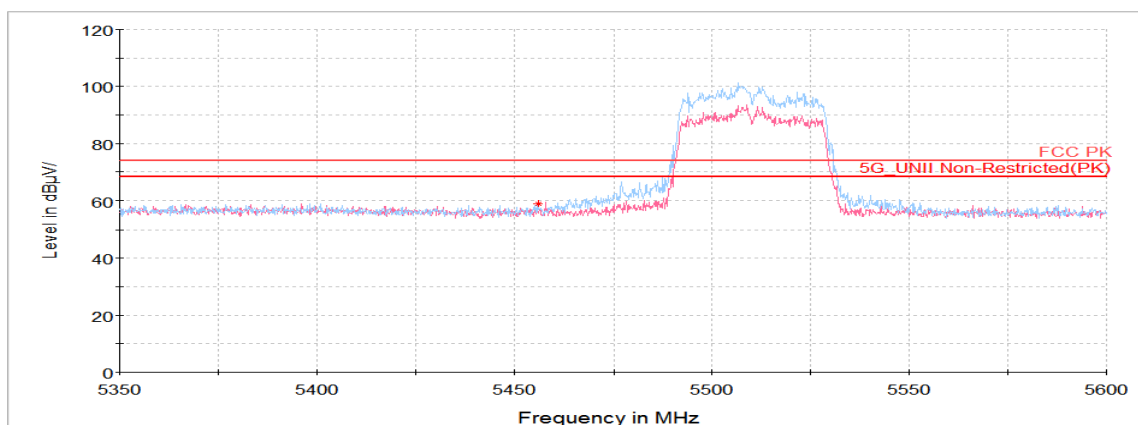
Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

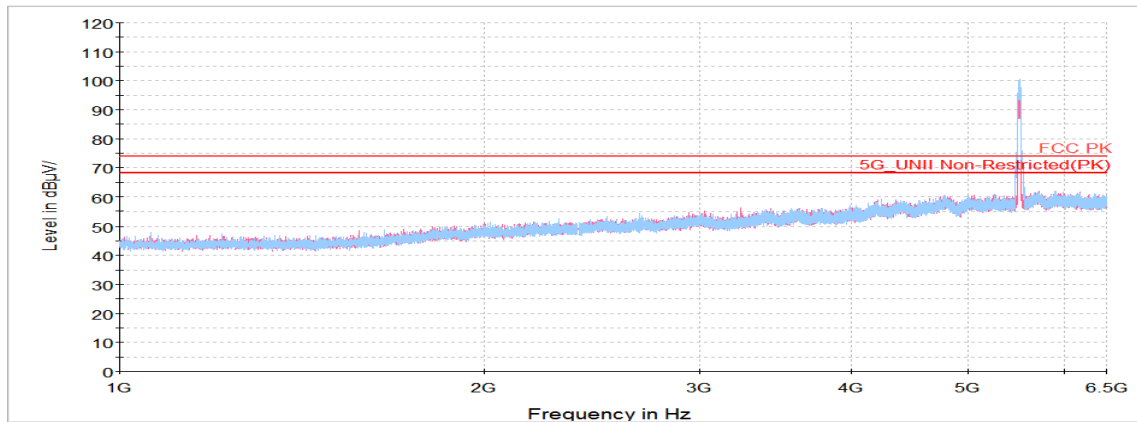
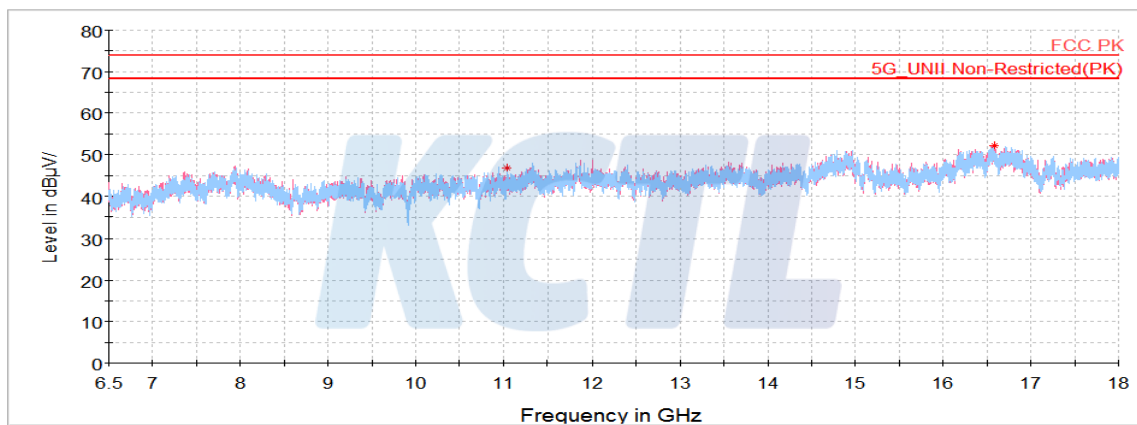
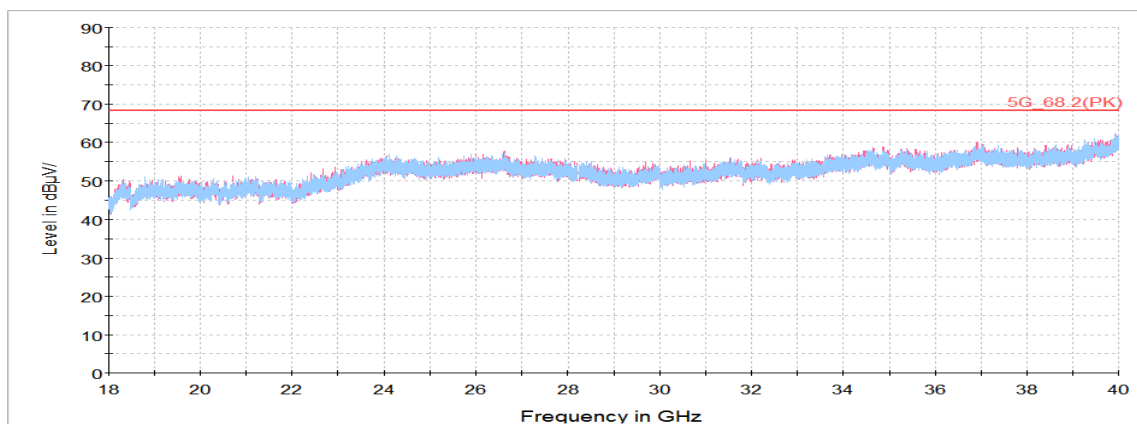
802.11 HT40 UNII-2C**Lowest Channel (5 510 MHz)**

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								
5 459.85 ¹⁾	H	51.49	34.74	-27.35	-	58.88	74.00	15.12
11 044.66 ¹⁾	H	60.74	37.73	-51.70	-	46.77	74.00	27.23
16 590.17	V	55.96	41.59	-45.47	-	52.08	68.20	16.12
Average Data								
5 459.85 ¹⁾	H	43.46	34.74	-27.35	0.23	51.08	54.00	2.92

Average data

Blank

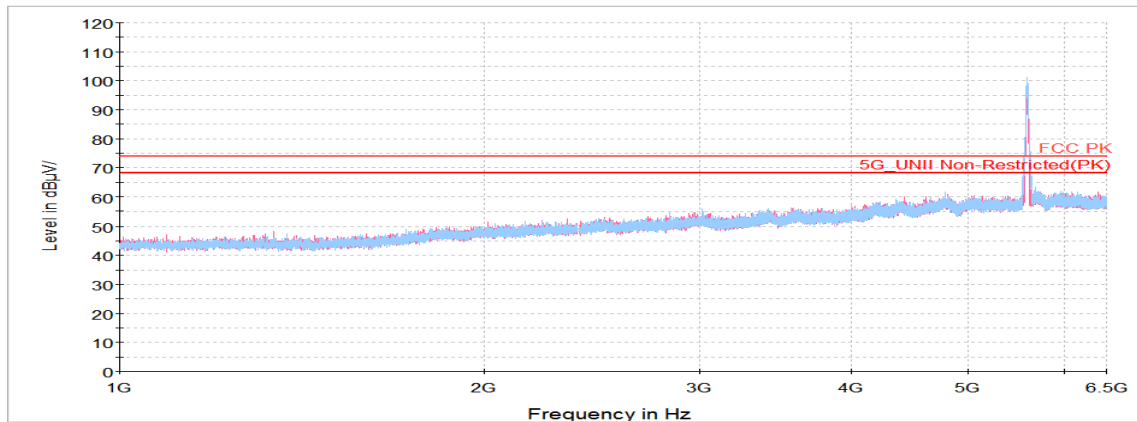
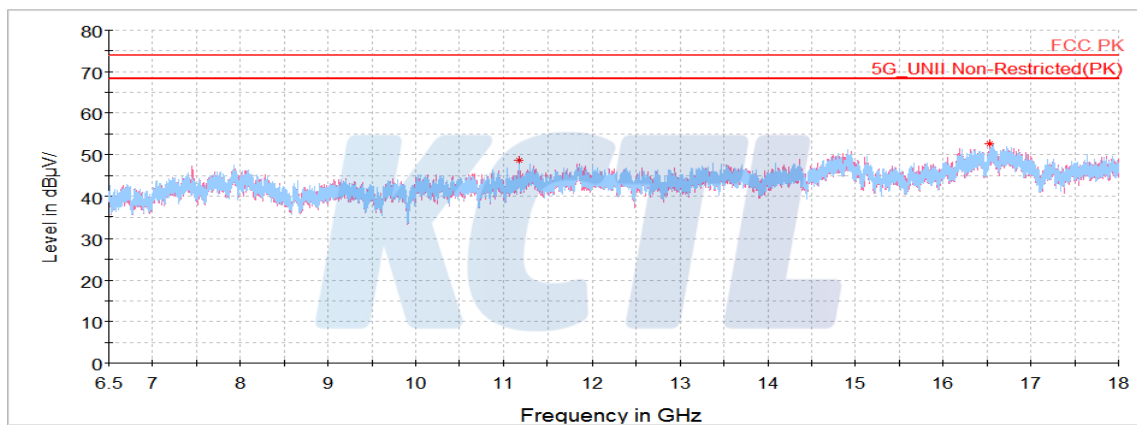
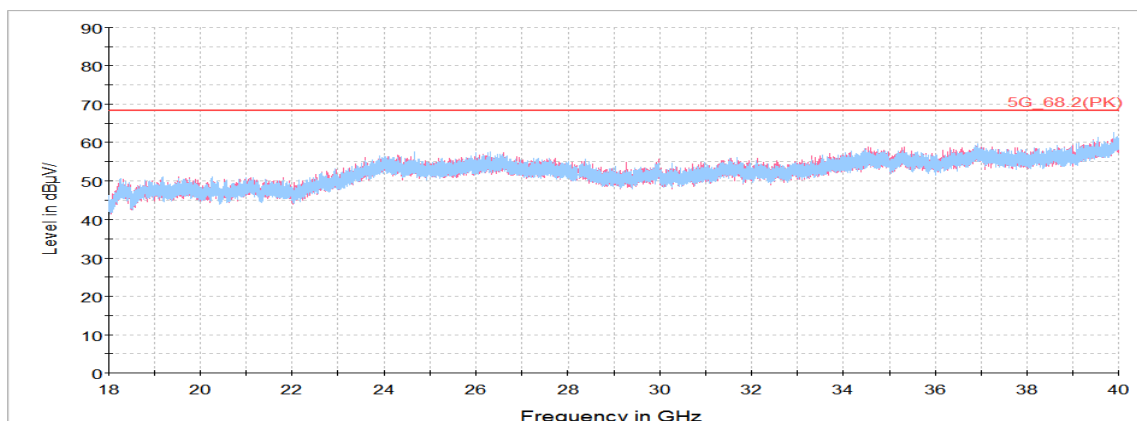
Horizontal/Vertical for Band-edge

Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

Middle Channel (5 590 MHz)

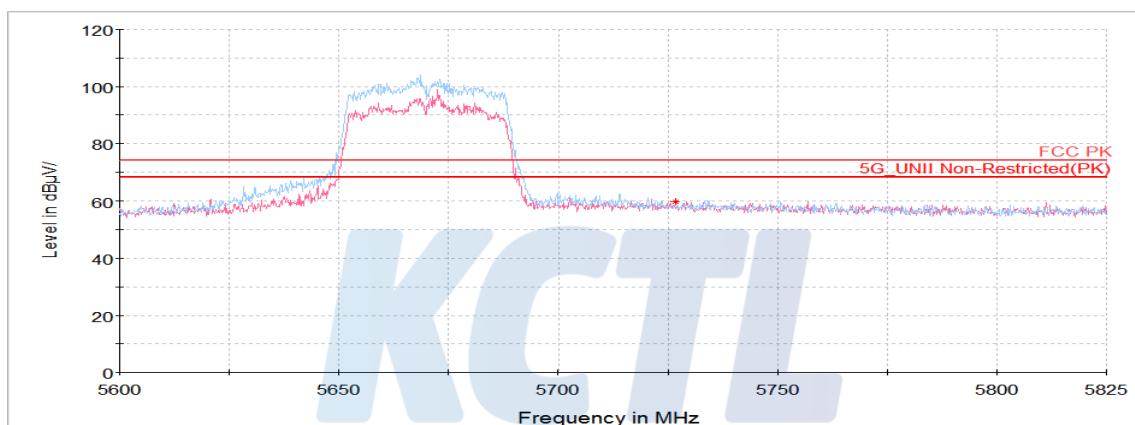
Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
11 180.14 ¹⁾	V	61.97	37.81	-51.09	-	48.69	74.00	25.31
16 533.03	V	56.41	41.53	-45.26	-	52.68	68.20	15.52
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

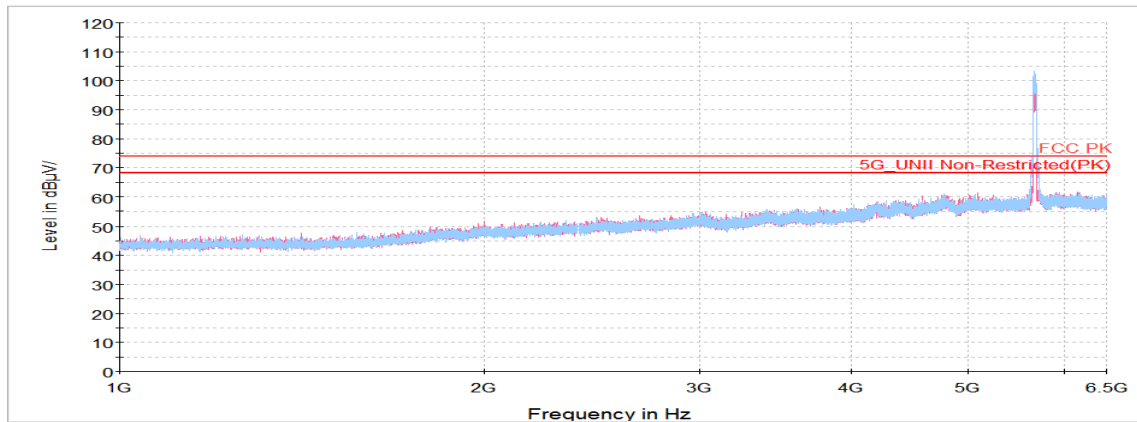
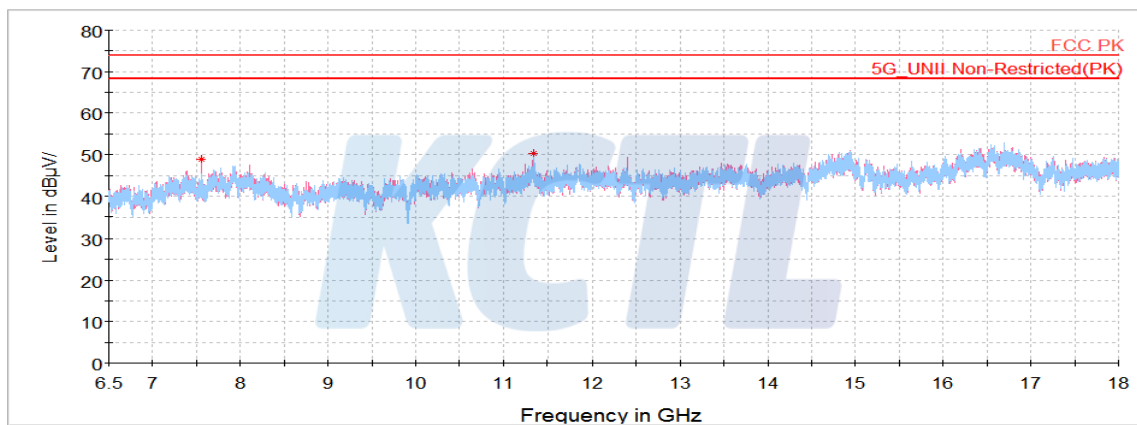
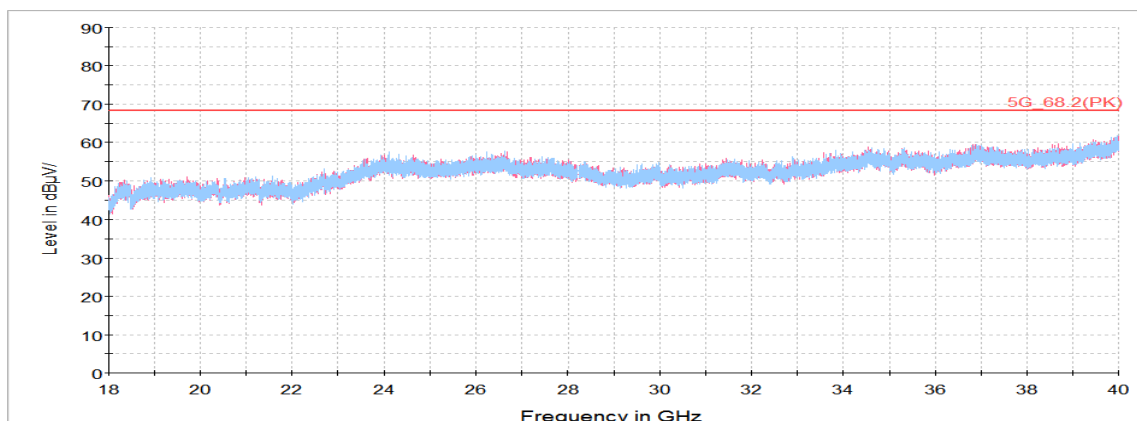


Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

Highest Channel (5 670 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								
5 726.73	H	50.46	35.07	-25.94	-	59.59	68.20	8.61
7 560.16 ¹⁾	V	65.01	35.45	-51.52	-	48.94	74.00	25.06
11 339.70 ¹⁾	V	62.74	37.90	-50.38	-	50.26	74.00	23.74
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

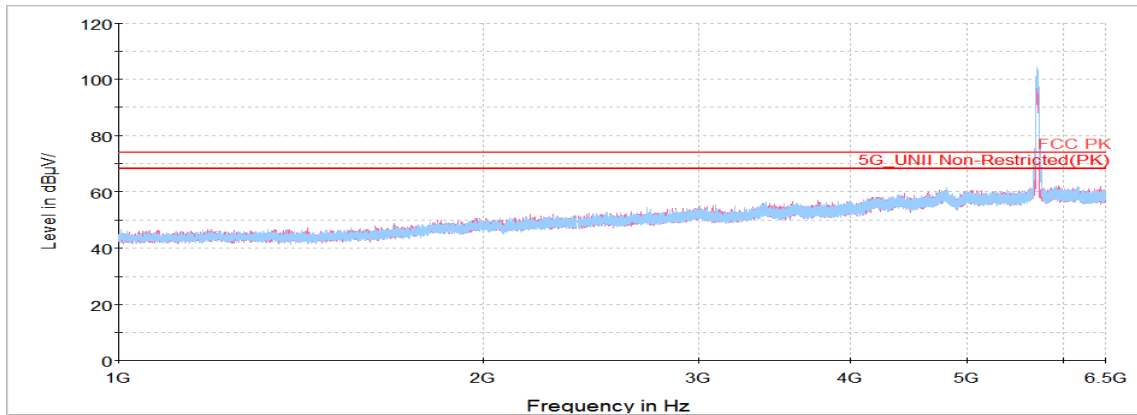
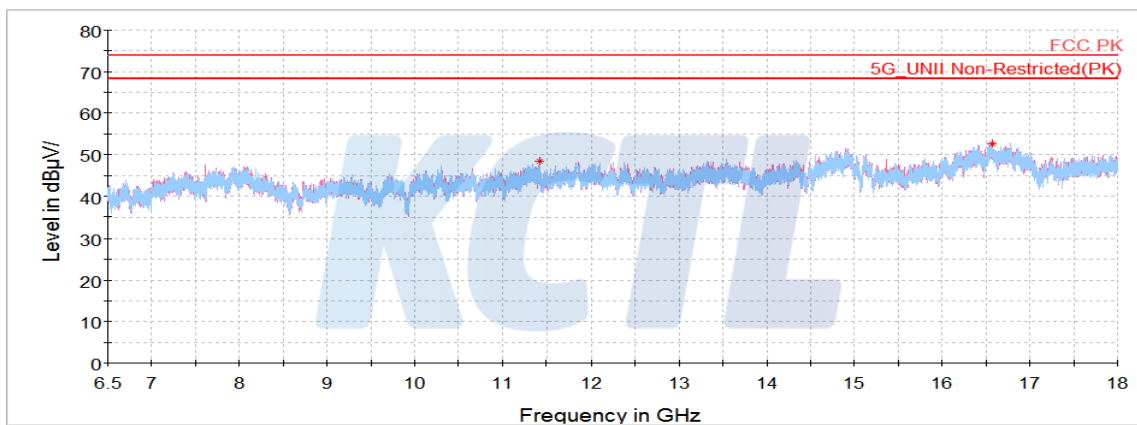
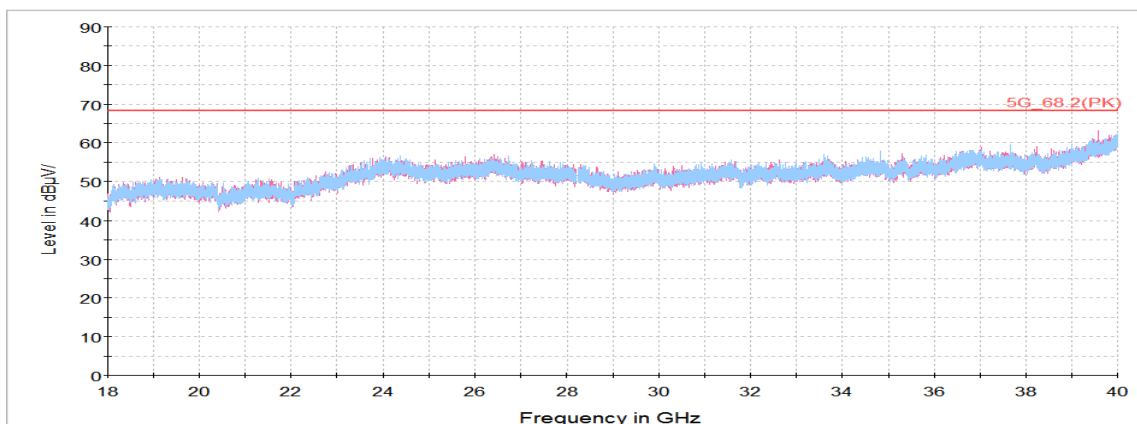
Horizontal/Vertical for Band-edge

Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

Straddle Channel (5 710 MHz)

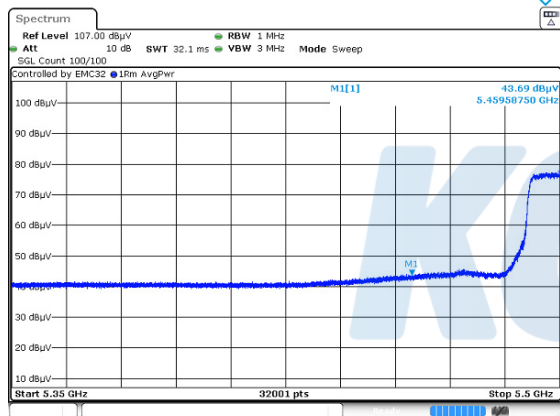
Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μ V))	(dB)	(dB)	(dB)	(dB(μ V/m))	(dB(μ V/m))	(dB)
Peak data								
11 420.20 ¹⁾	V	60.60	37.95	-50.02	-	48.53	74.00	25.47
16 568.25 ¹⁾	V	56.57	41.57	-45.39	-	52.75	68.20	15.45
Average Data								
No spurious emissions were detected within 20 dB of the limit.								



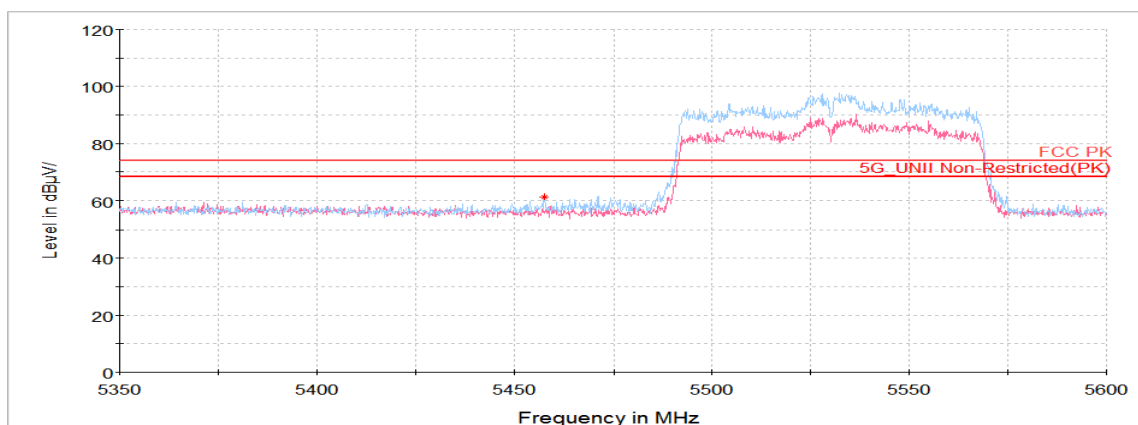
Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

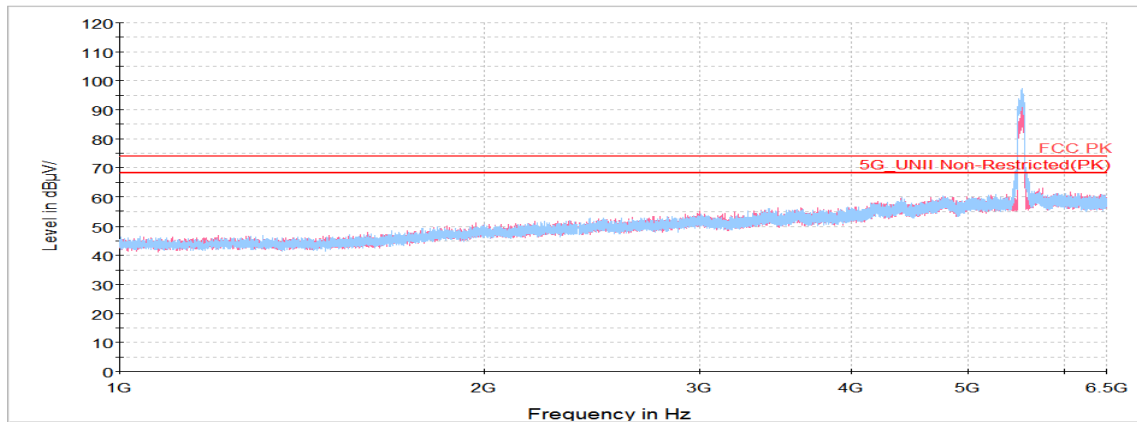
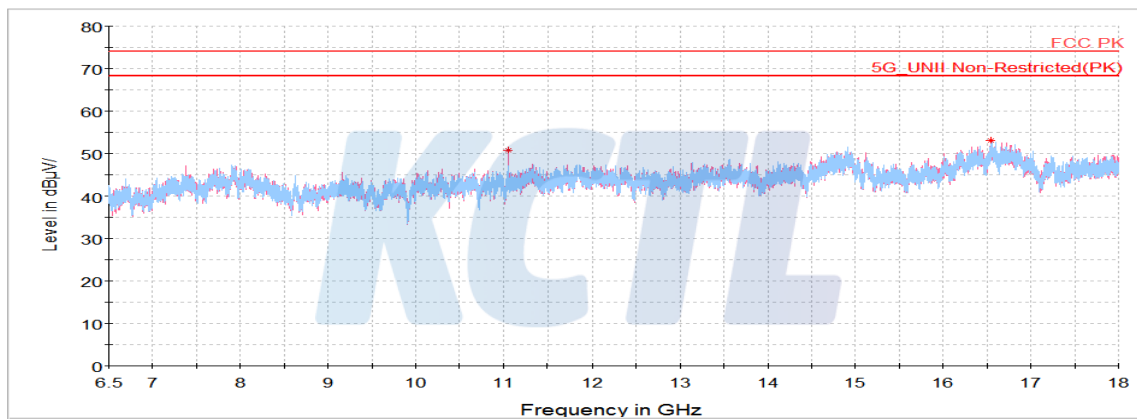
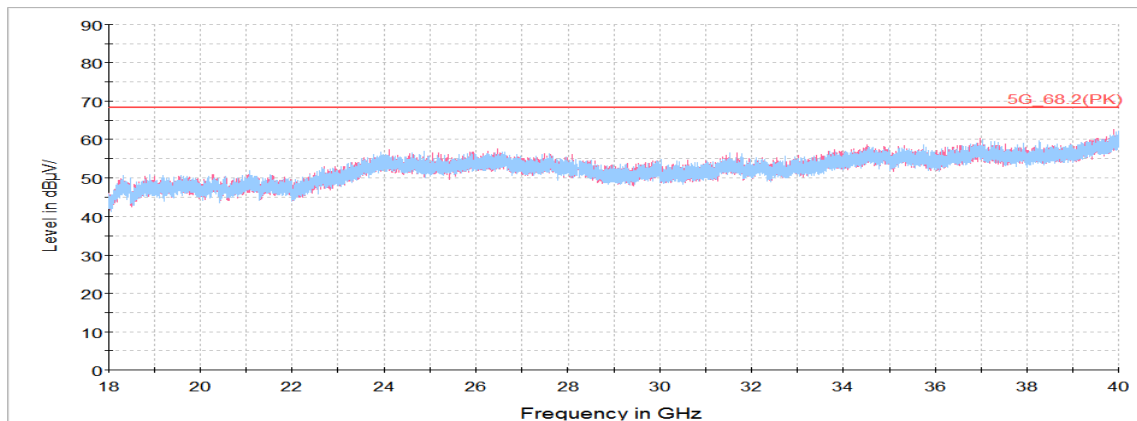
802.11ac VHT80 UNII-2C**Lowest Channel (5 530 MHz)**

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								
5 459.59 ¹⁾	H	53.77	34.74	-27.35	-	61.16	74.00	12.84
11 060.11 ¹⁾	V	64.56	37.74	-51.63	-	50.67	74.00	23.33
16 544.53	H	56.76	41.54	-45.30	-	53.00	68.20	15.20
Average Data								
5 459.59 ¹⁾	H	43.69	34.74	-27.35	0.47	51.55	54.00	2.45

Average data

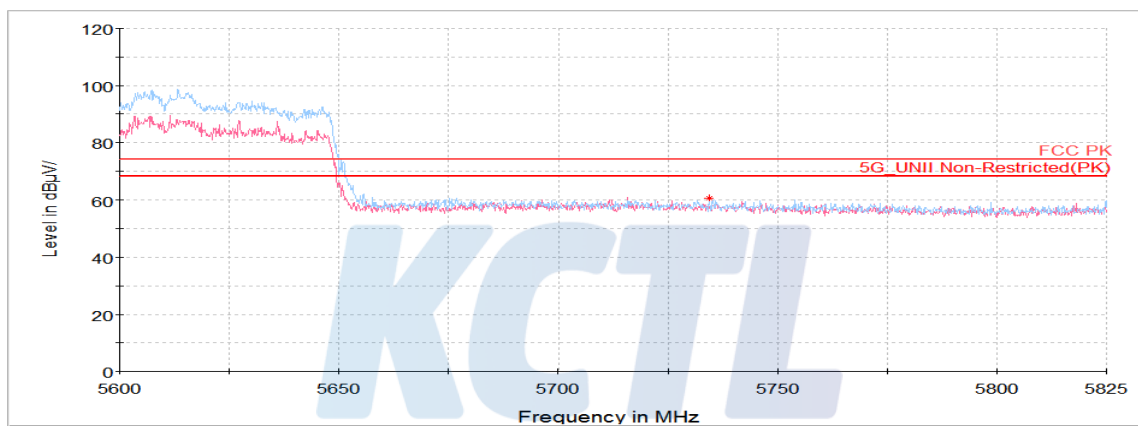
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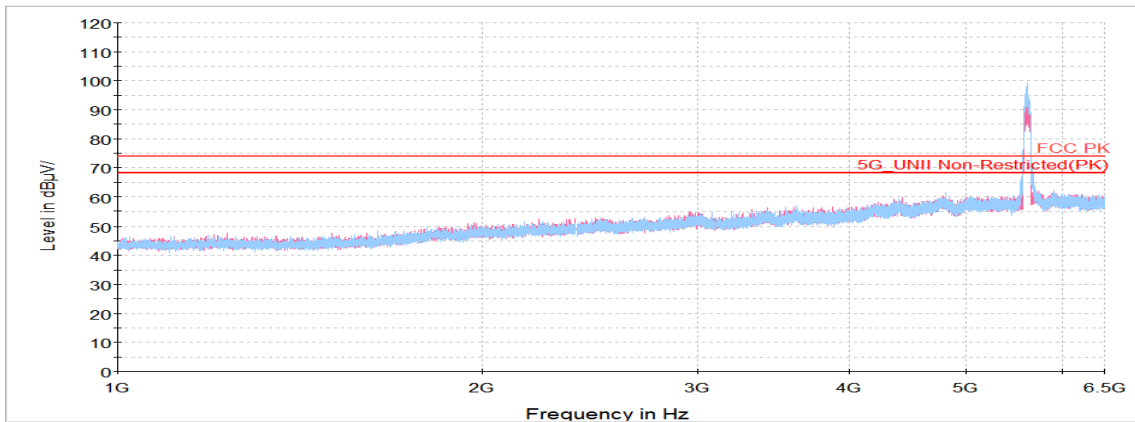
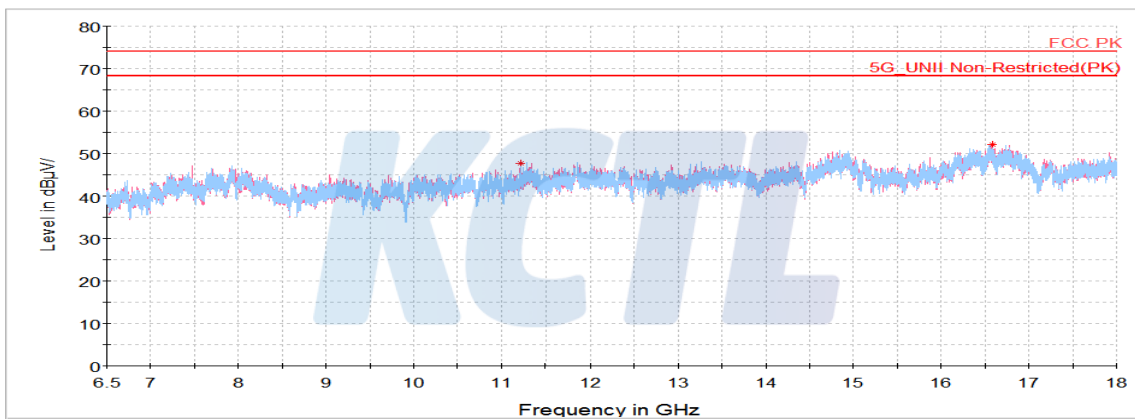
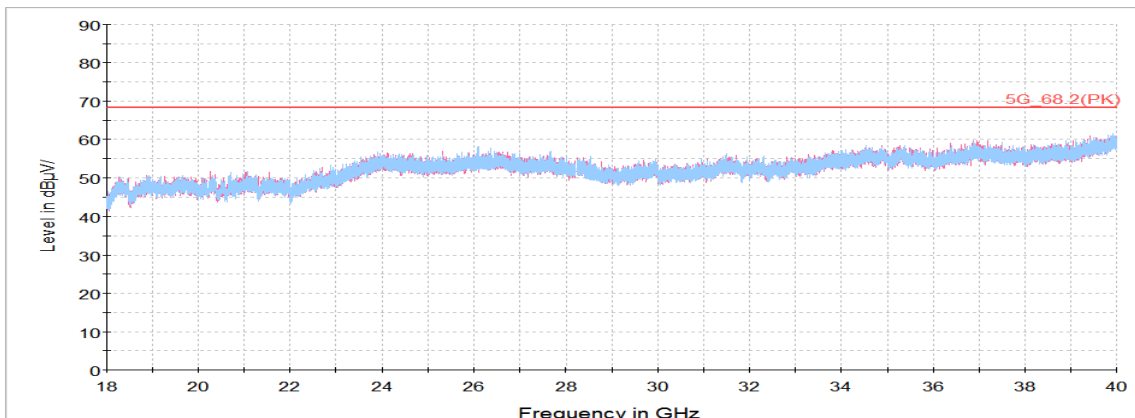
Horizontal/Vertical for Band-edge

Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

Highest Channel (5 610 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								
5 734.30	H	51.33	35.08	-26.05	-	60.36	68.20	7.84
11 220.75 ¹⁾	V	60.72	37.83	-50.91	-	47.64	74.00	26.36
16 579.75	H	55.99	41.58	-45.43	-	52.14	68.20	16.06
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

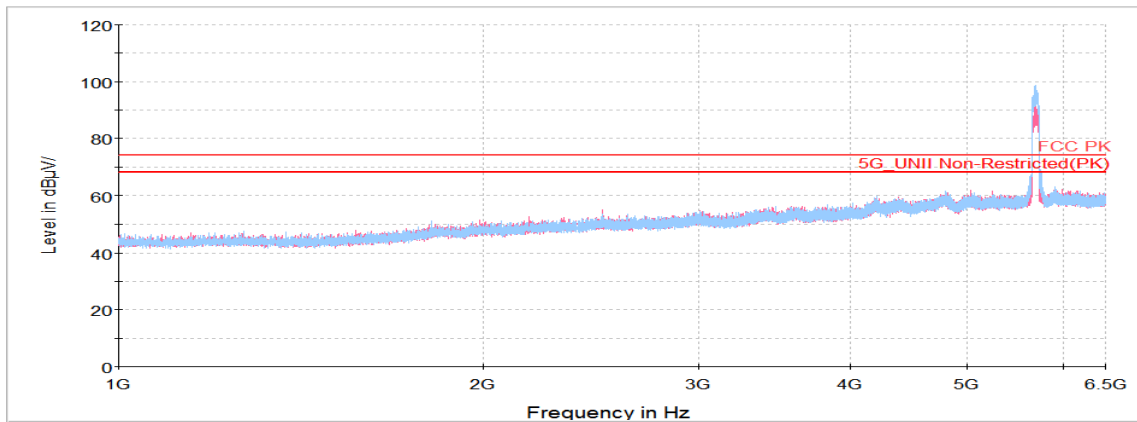
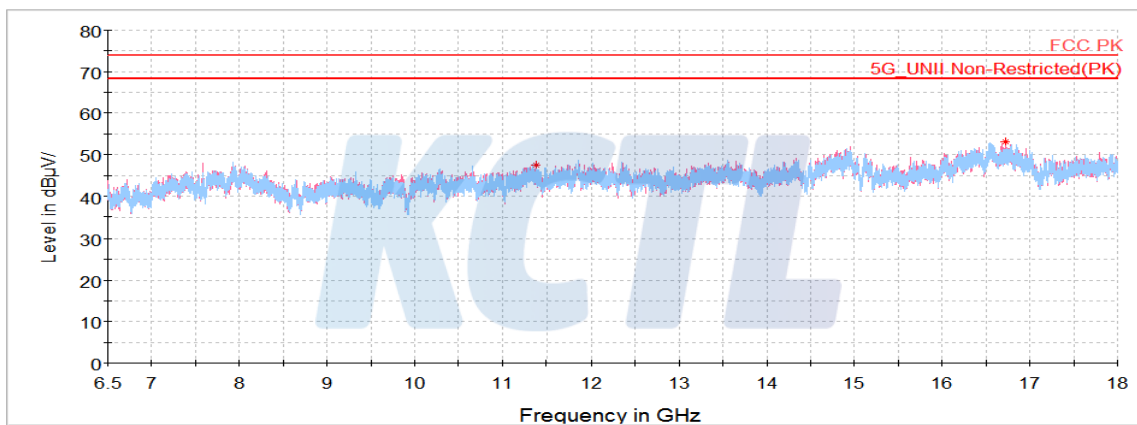
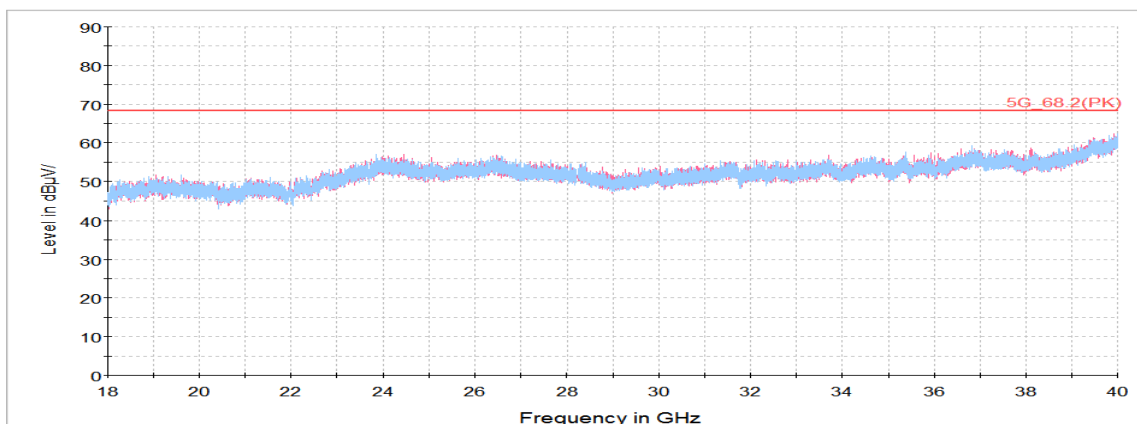
Horizontal/Vertical for Band-edge

Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

Straddle Channel (5 690 MHz)

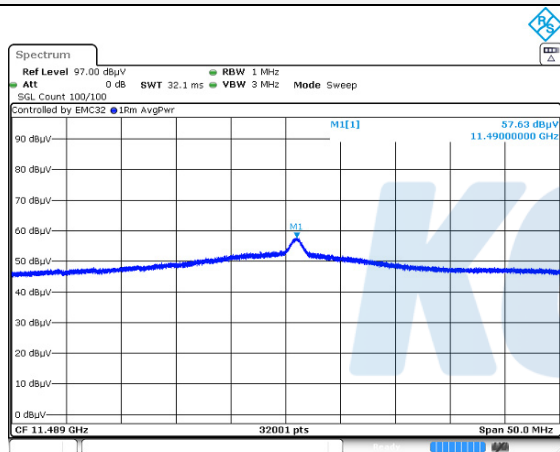
Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μ V))	(dB)	(dB)	(dB)	(dB(μ V/m))	(dB(μ V/m))	(dB)
Peak data								
11 379.59 ¹⁾	V	59.74	37.93	-50.20	-	47.47	74.00	26.53
16 724.58	V	57.29	41.72	-45.96	-	53.05	68.20	15.15
Average Data								
No spurious emissions were detected within 20 dB of the limit.								



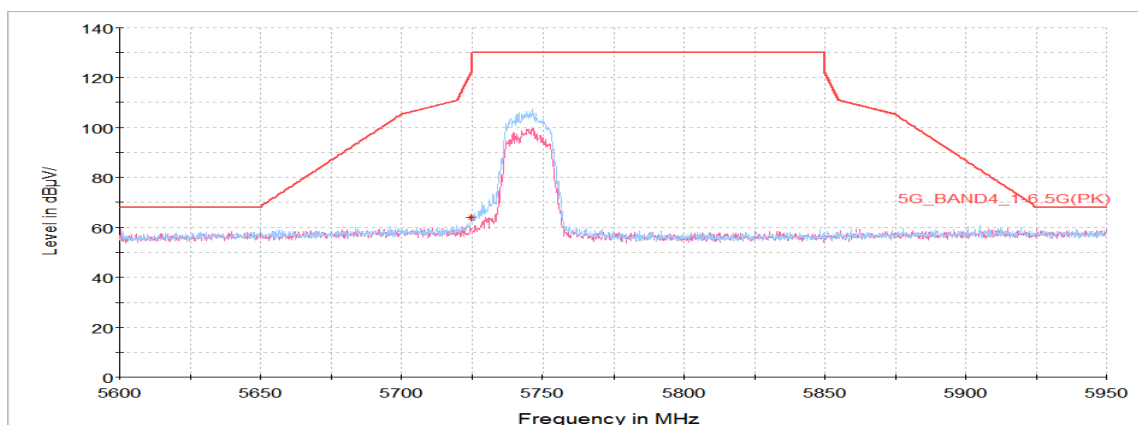
Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

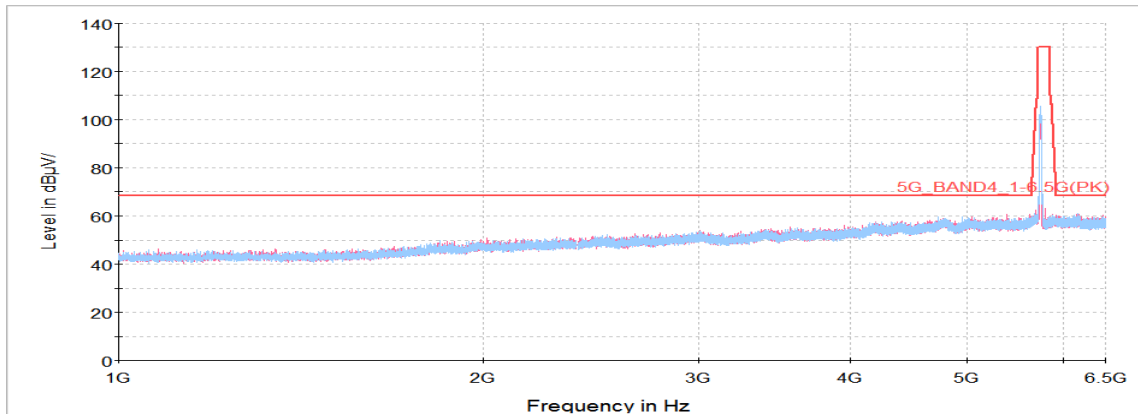
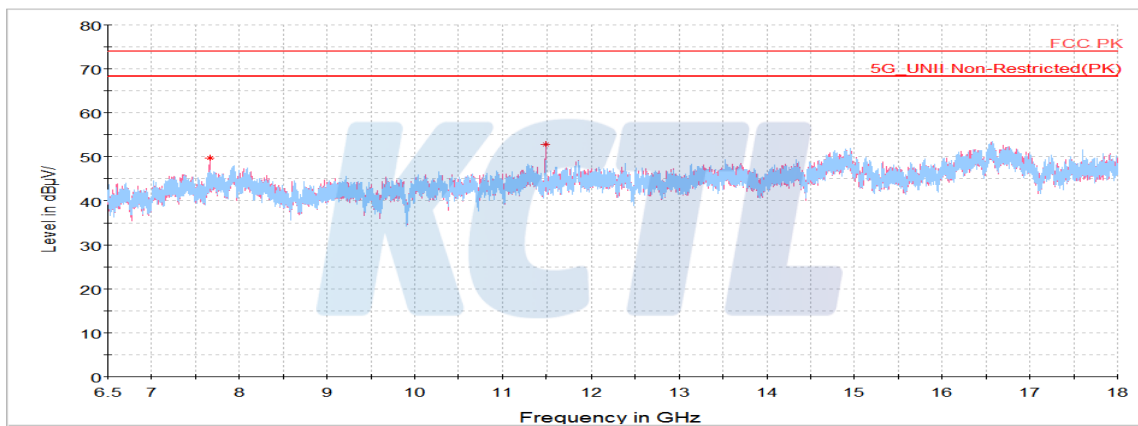
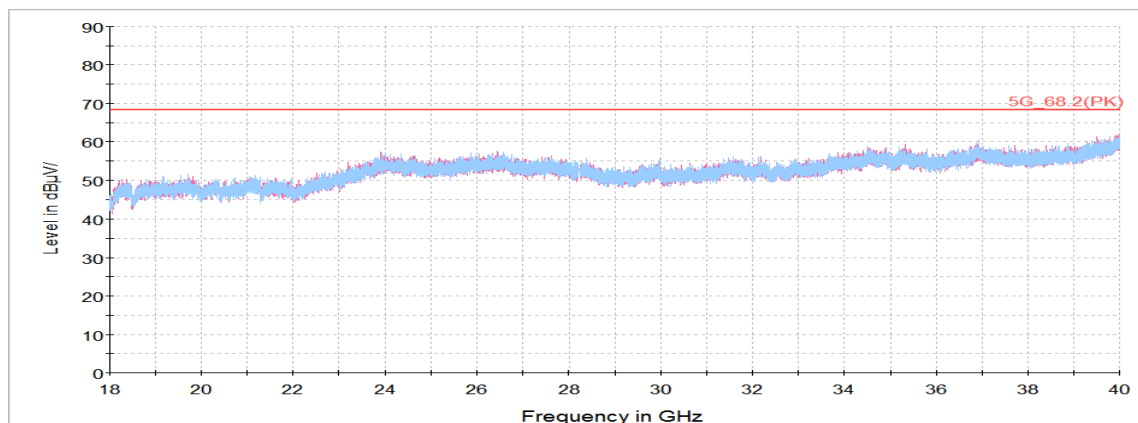
802.11a UNII-3**Lowest Channel (5 745 MHz)**

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								
5 724.67	H	54.63	35.07	-25.91	-	63.79	121.45	57.66
7 660.06 ¹⁾	V	65.33	35.53	-51.13	-	49.73	74.00	24.27
11 490.00 ¹⁾	V	64.50	37.99	-49.70	-	52.79	74.00	21.21
Average Data								
11 490.00 ¹⁾	V	57.63	37.99	-49.70	0.11	46.03	54.00	7.97

Average data

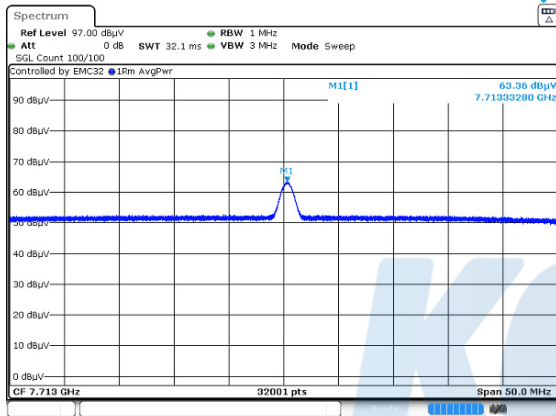
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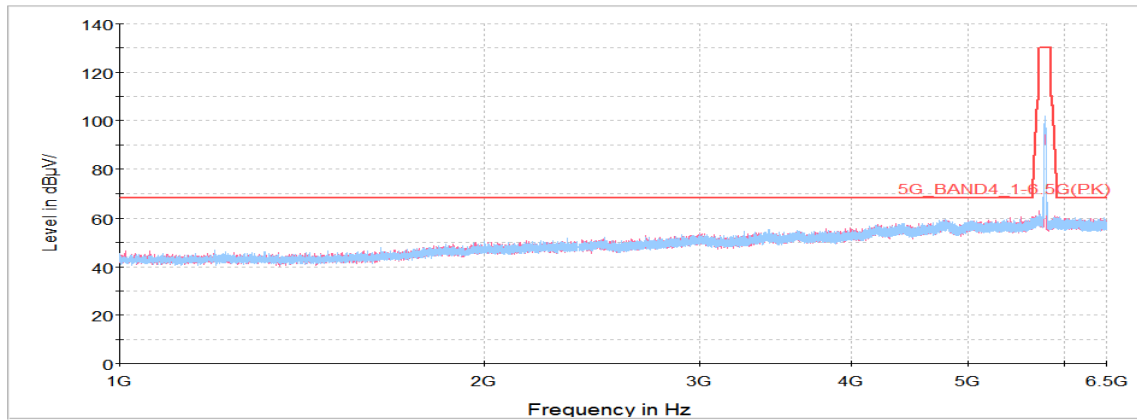
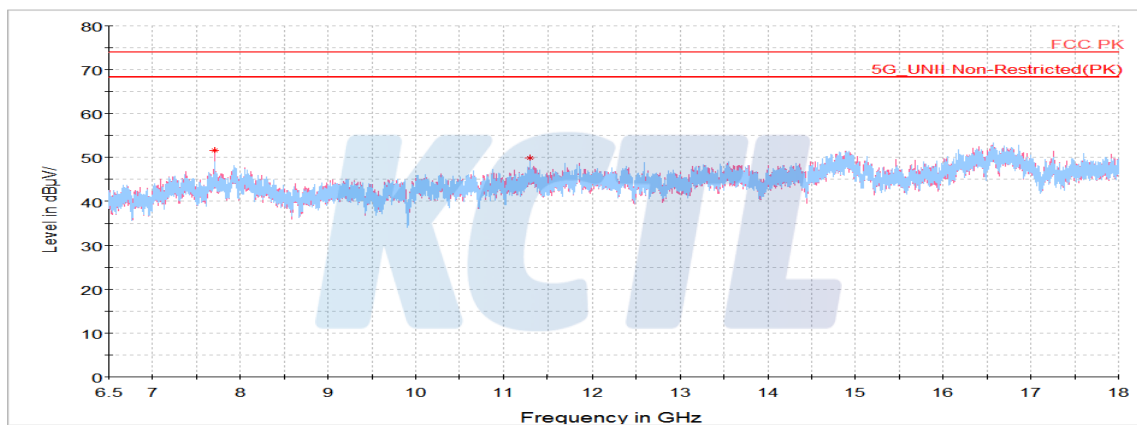
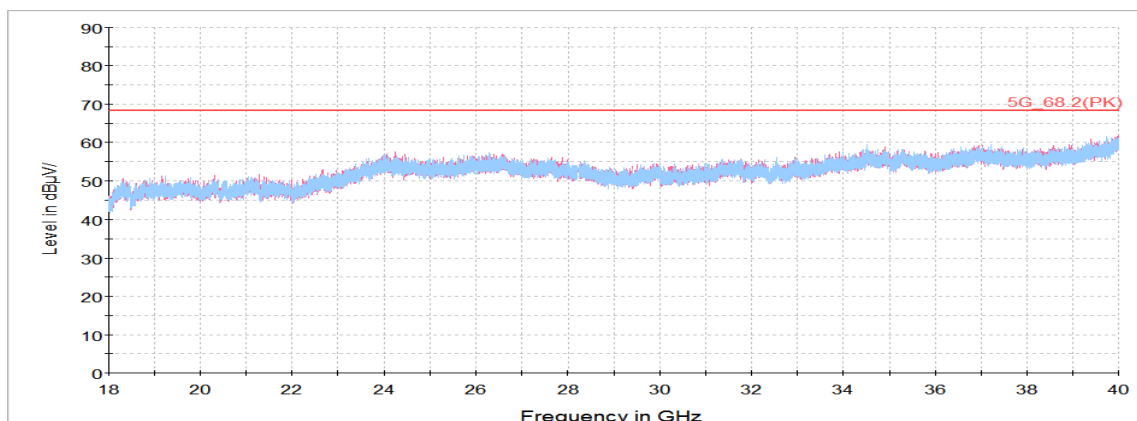
Horizontal/Vertical for Band-edge

Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

Middle Channel (5 785 MHz)

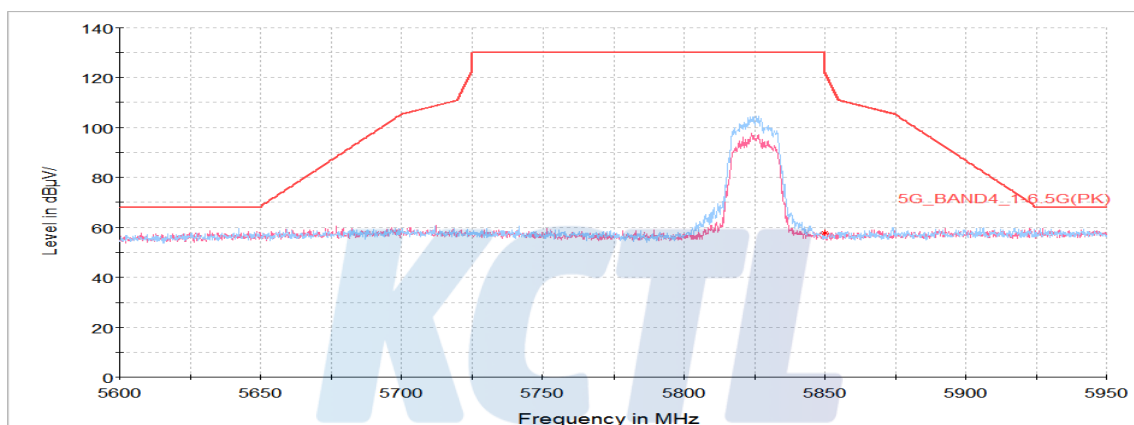
Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
7 713.33 ¹⁾	V	66.92	35.57	-50.92	-	51.57	74.00	22.43
11 307.36 ¹⁾	H	62.47	37.88	-50.52	-	49.83	74.00	24.17
Average Data								
7 713.33 ¹⁾	V	63.36	35.57	-50.92	0.11	48.12	54.00	5.88

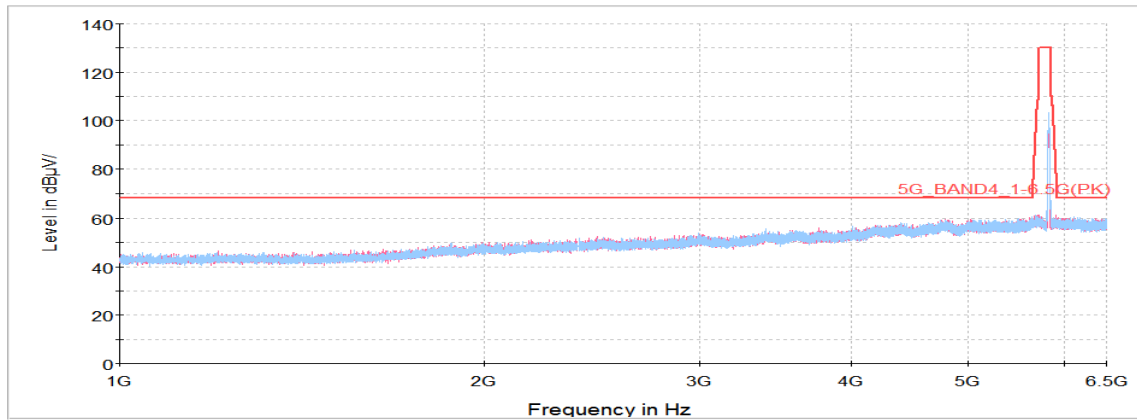
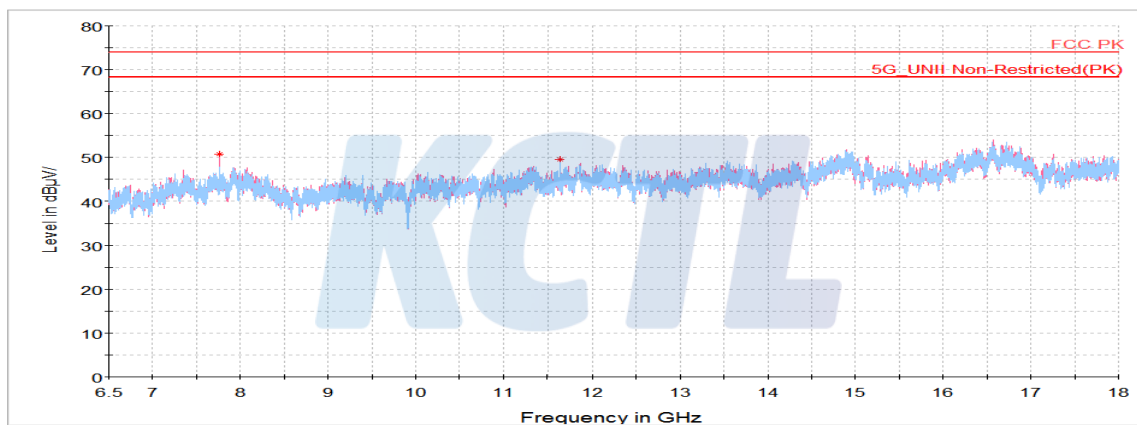
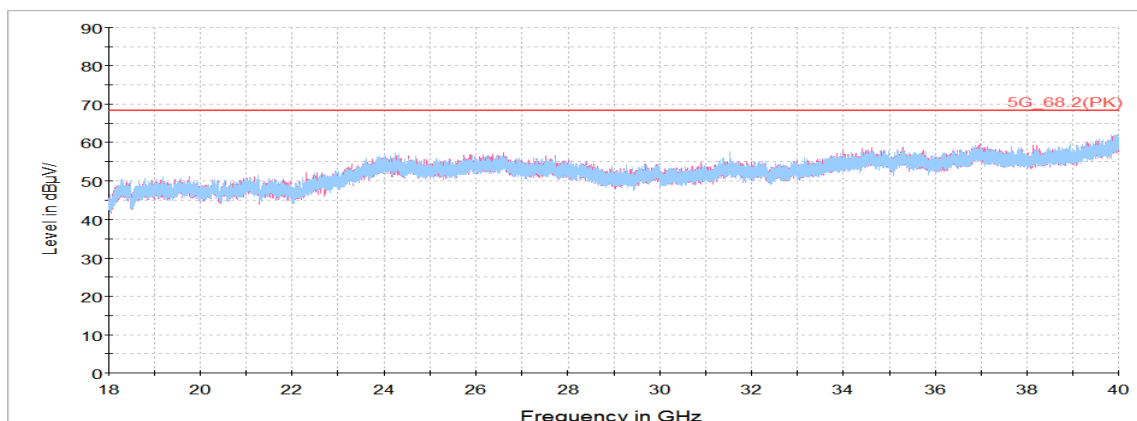
Average data

Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

Highest Channel (5 825 MHz)

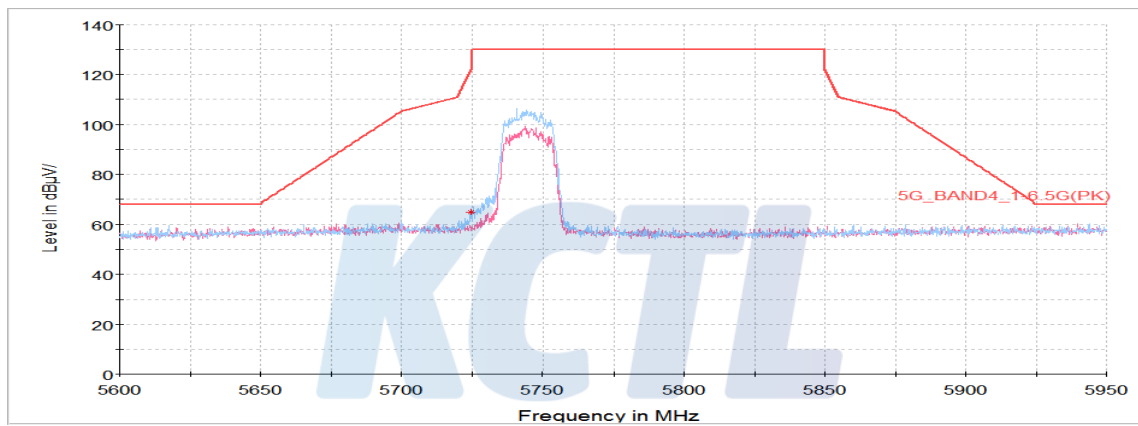
Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
5 850.14	V	49.40	35.22	-26.68	-	57.94	121.88	63.93
7 766.44	V	65.82	35.61	-50.71	-	50.72	68.20	17.48
11 650.92 ¹⁾	V	61.16	38.18	-49.93	-	49.41	74.00	24.59
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

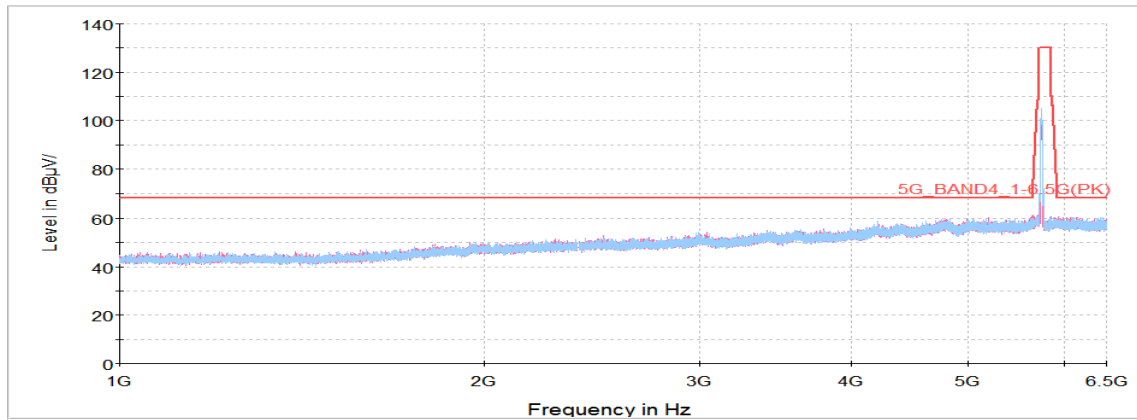
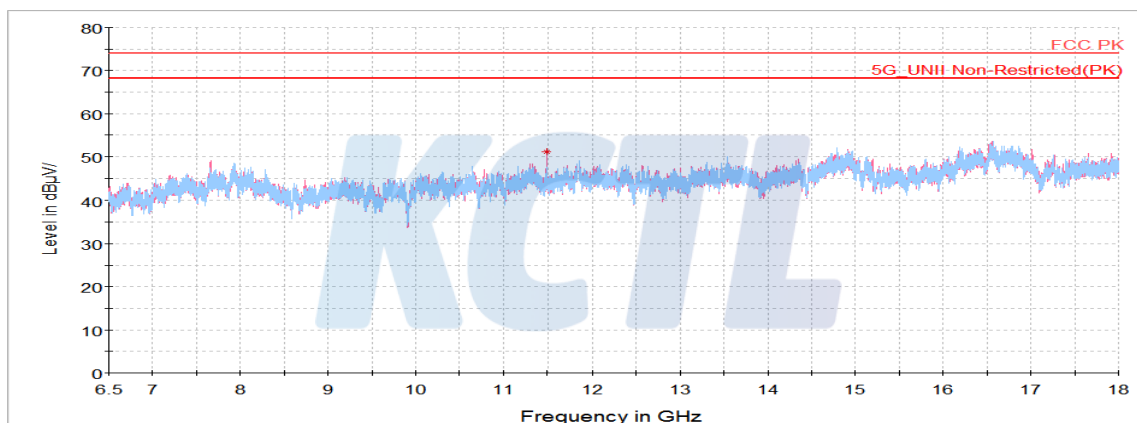
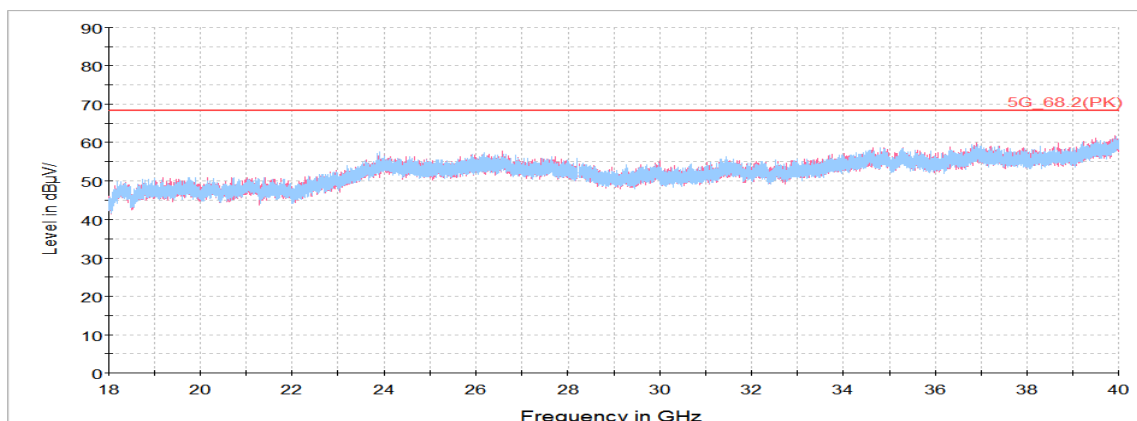
Horizontal/Vertical for Band-edge

Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

802.11 HT20 UNII-3**Lowest Channel (5 745 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								
5 723.64	H	55.58	35.07	-25.91	-	64.74	121.45	56.71
11 489.94 ¹⁾	V	62.92	37.99	-49.70	-	51.21	74.00	22.79
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

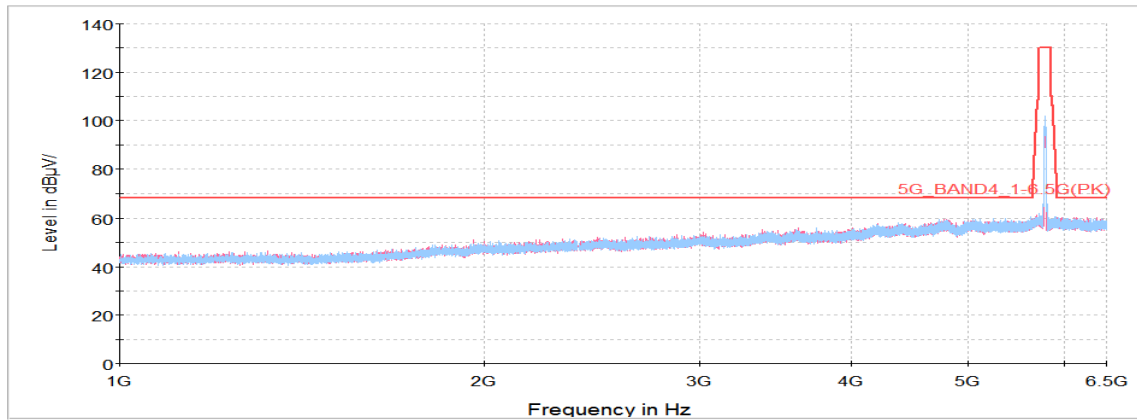
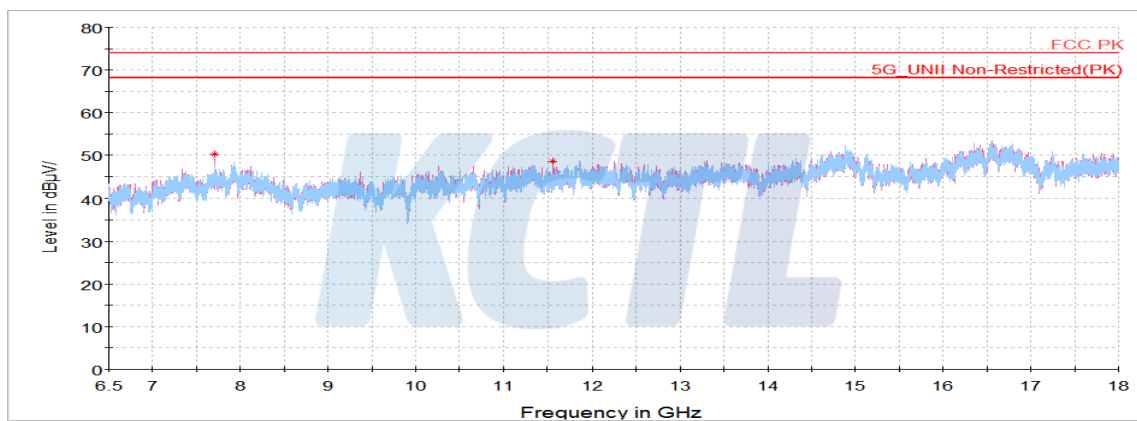
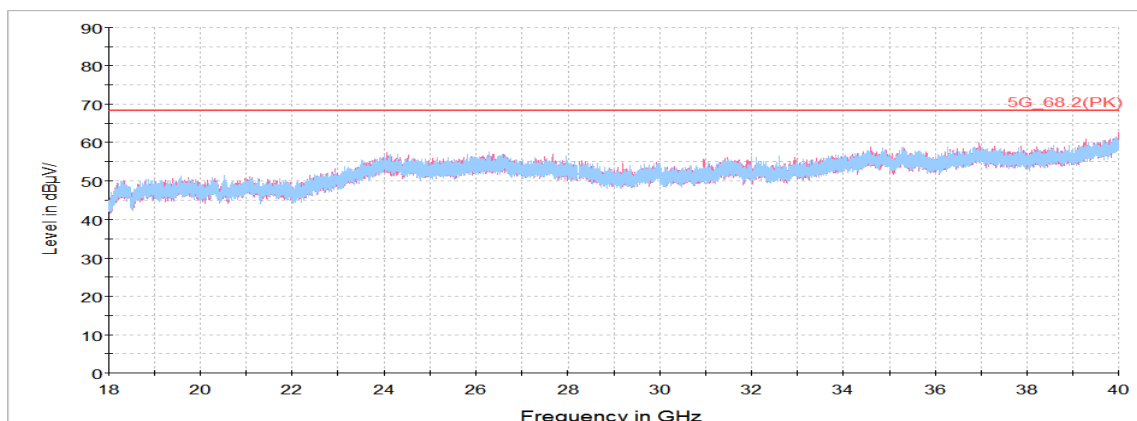
Horizontal/Vertical for Band-edge

Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

Middle Channel (5 785 MHz)

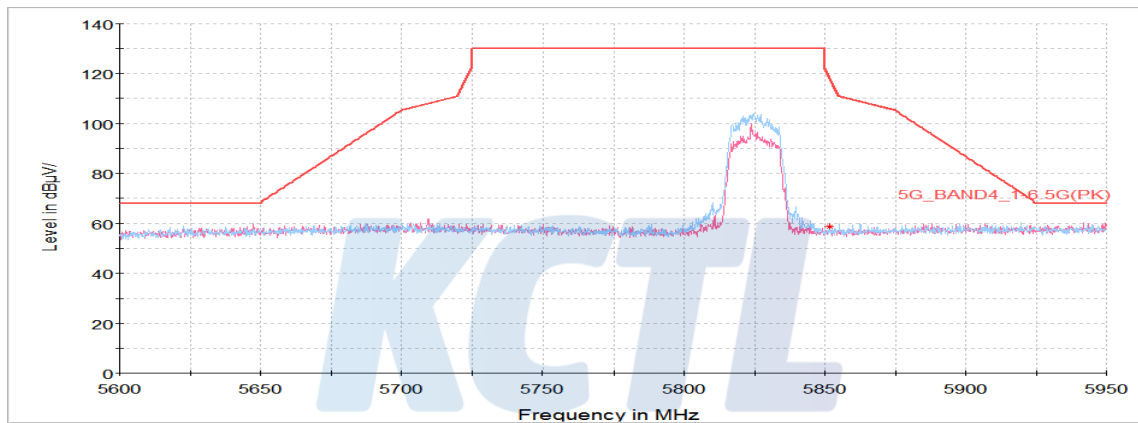
Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
7 713.25 ¹⁾	V	65.59	35.57	-50.92	-	50.24	74.00	23.76
11 570.06 ¹⁾	V	60.22	38.08	-49.78	-	48.52	74.00	25.48
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

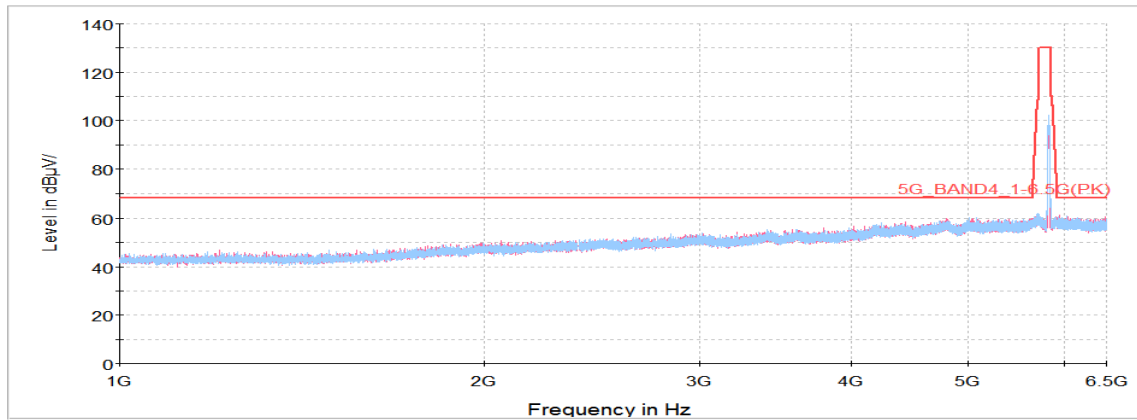
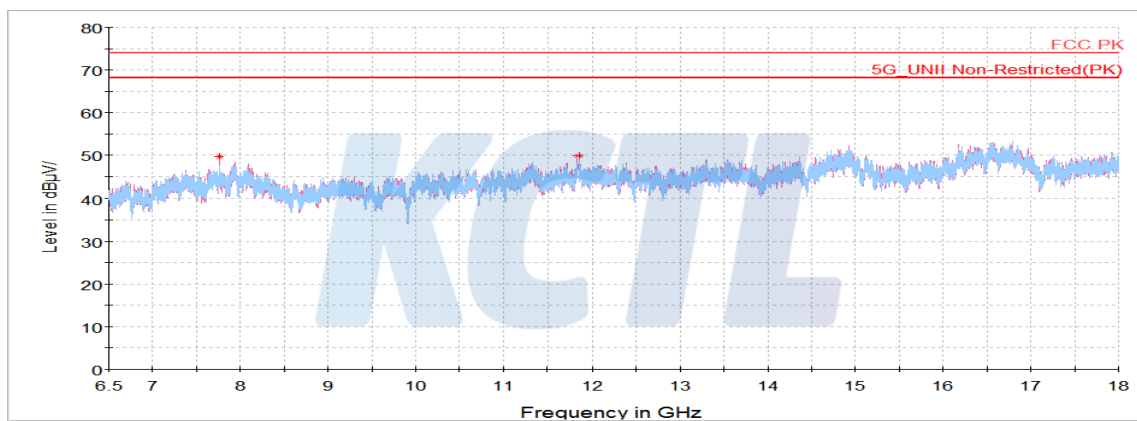
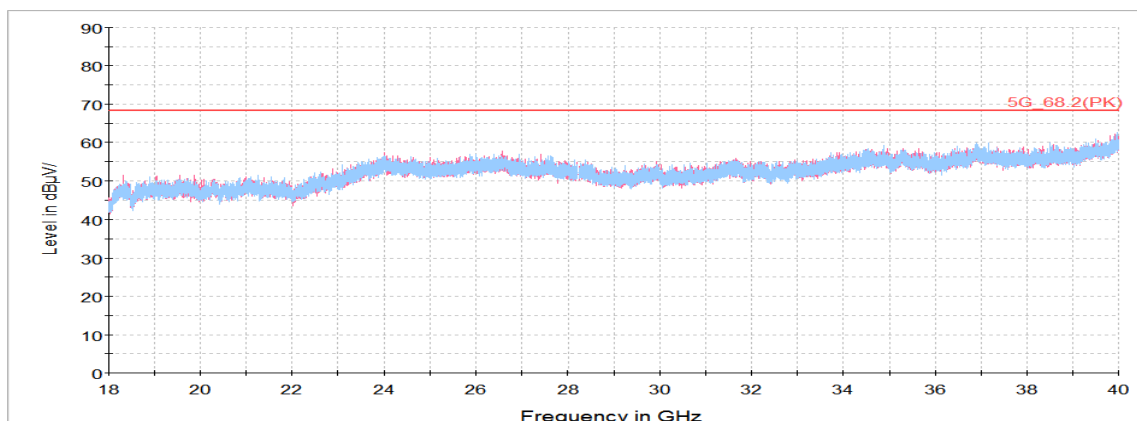


Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

Highest Channel (5 825 MHz)

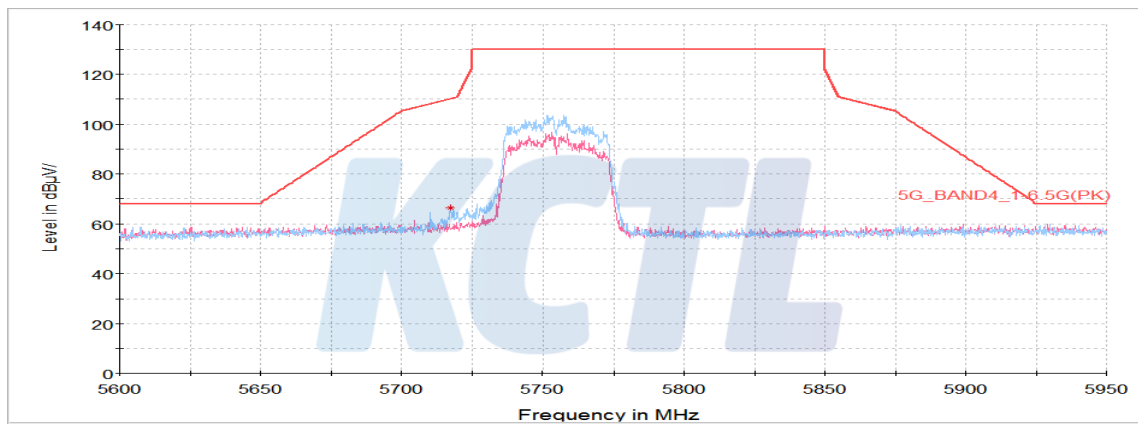
Frequency	Pol.	Reading	Amp. + Cable	Antenna Factor	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μ V))	(dB)	(dB)	(dB)	(dB(μ V/m))	(dB(μ V/m))	(dB)
Peak data								
5 851.52	V	50.19	35.22	-26.67	-	58.74	118.74	60.00
7 766.80	V	64.83	35.61	-50.70	-	49.74	68.20	18.46
11 856.13 ¹⁾	V	61.74	38.43	-50.29	-	49.88	74.00	24.12
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

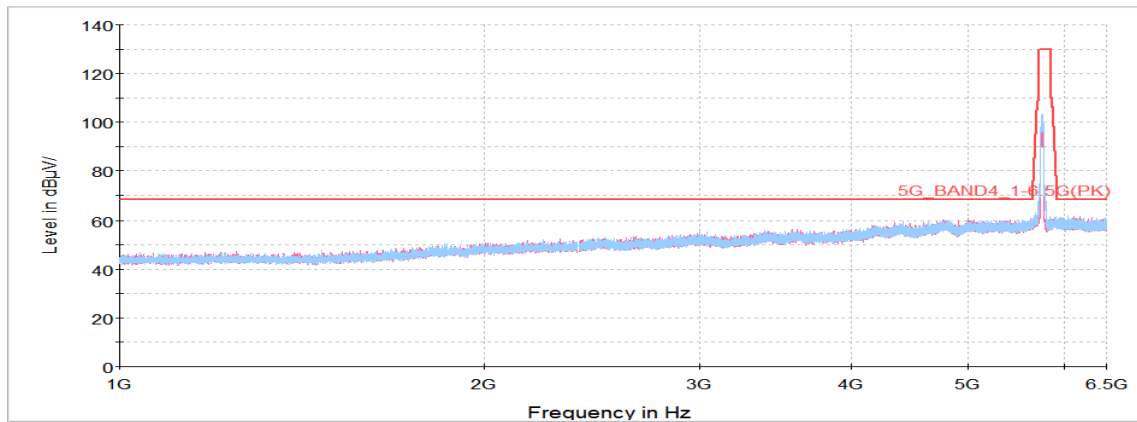
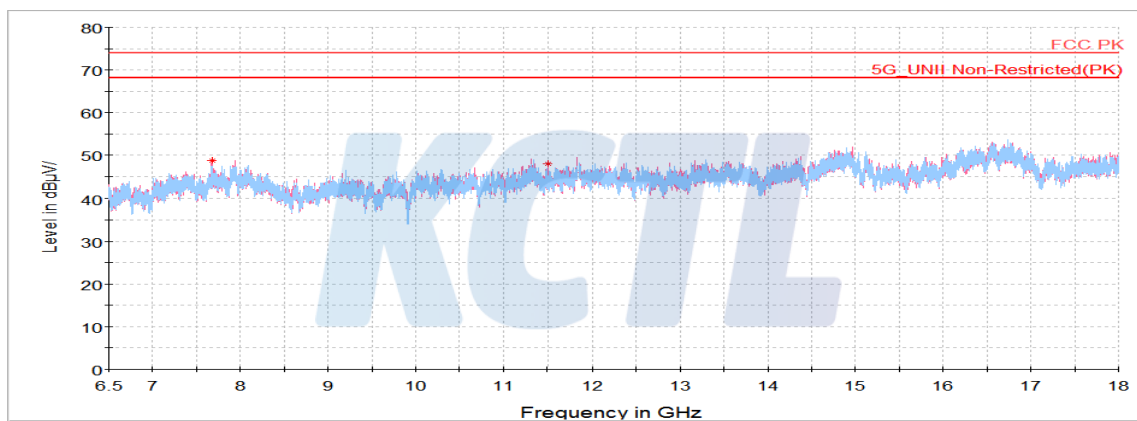
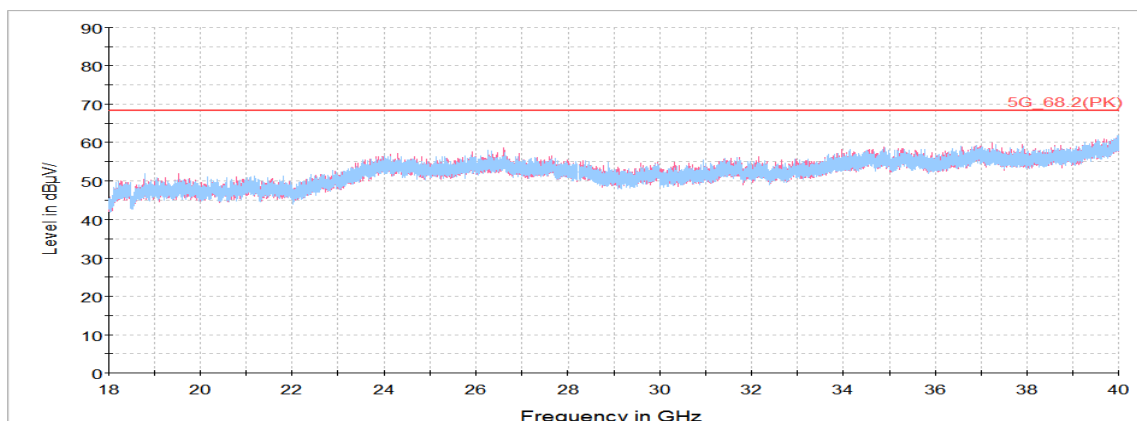
Horizontal/Vertical for Band-edge

Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

802.11 HT40 UNII-3**Lowest Channel (5 755 MHz)**

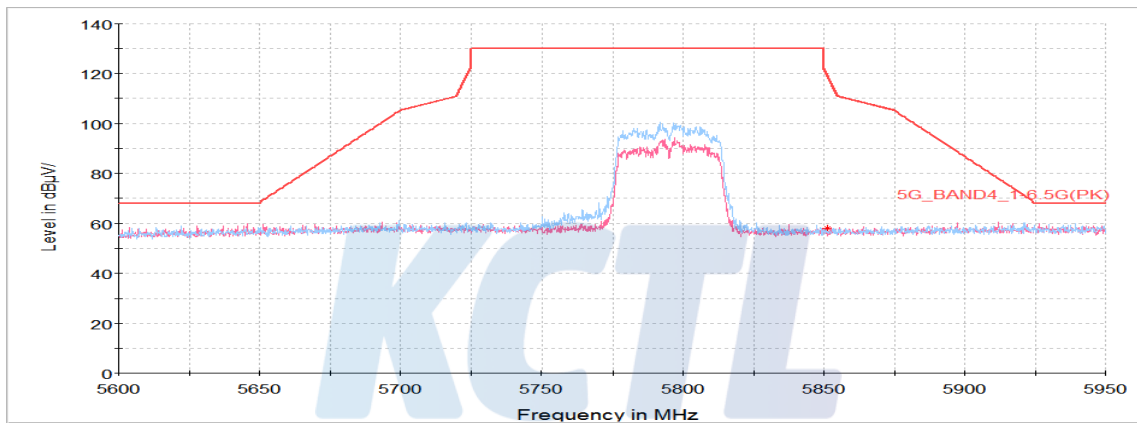
Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
5 717.63	H	57.15	35.06	-25.81	-	66.40	110.14	43.74
7 673.36 ¹⁾	V	64.33	35.54	-51.07	-	48.80	74.00	25.20
11 510.05 ¹⁾	V	59.64	38.01	-49.68	-	47.97	74.00	26.03
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

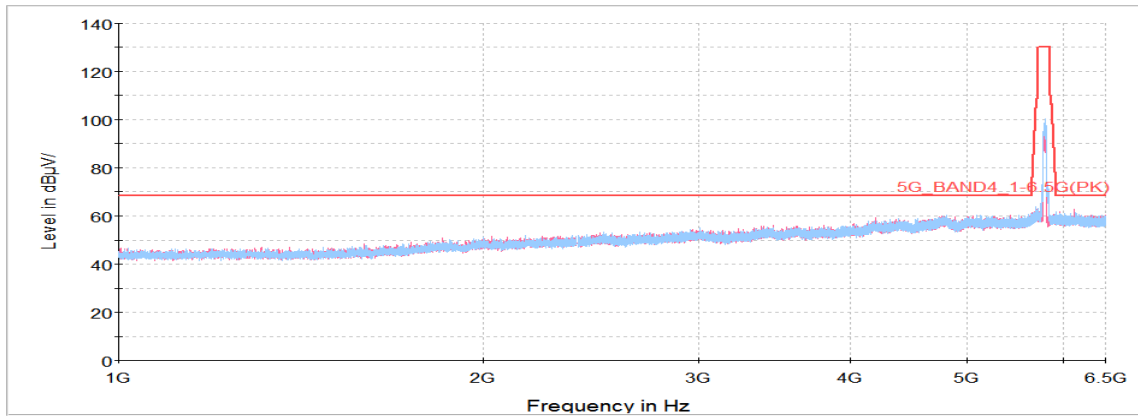
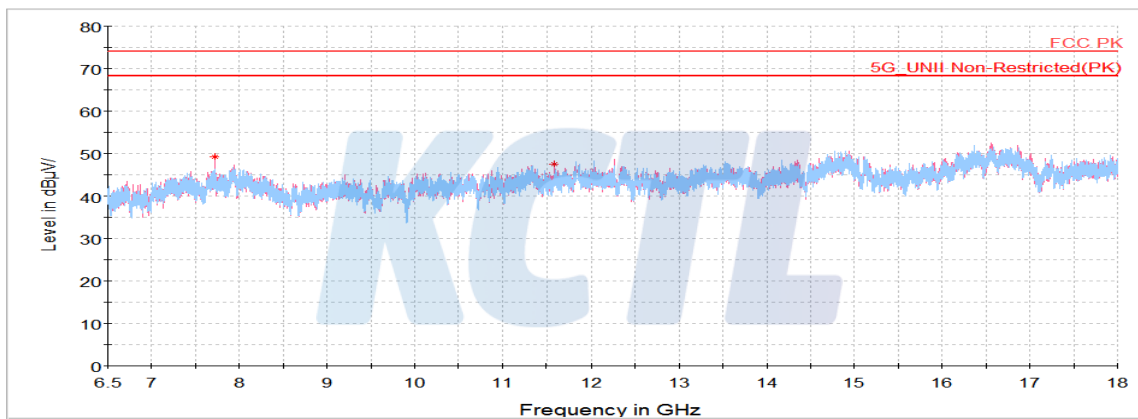
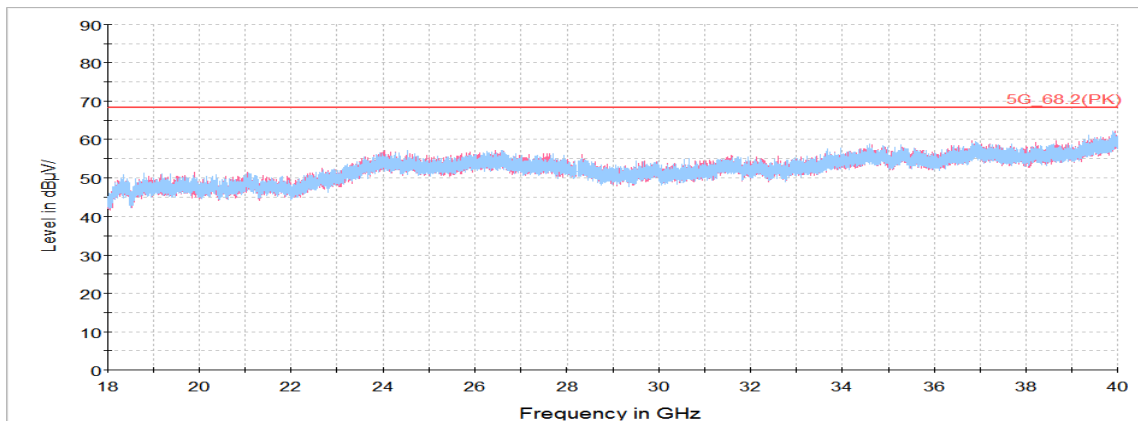
Horizontal/Vertical for Band-edge

Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

Highest Channel (5 795 MHz)

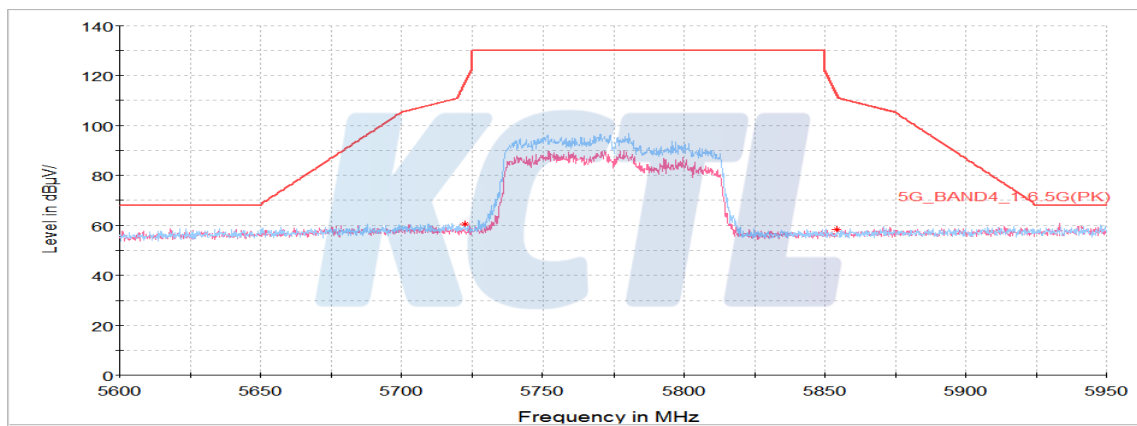
Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
5 723.98	H	54.39	35.07	-25.90	-	63.56	119.88	56.32
11 488.84 ¹⁾	V	59.66	37.99	-49.71	-	47.94	74.00	26.06
16 562.86	V	57.75	41.56	-45.37	-	53.94	68.20	14.26
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

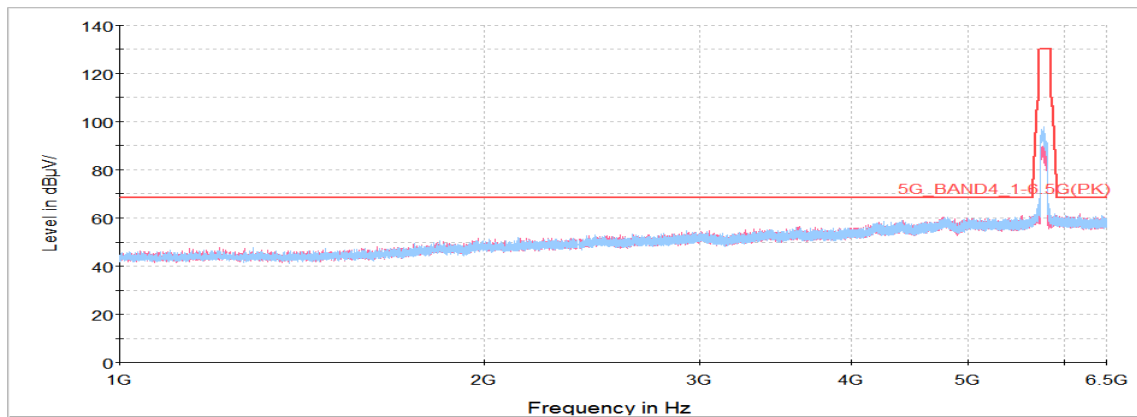
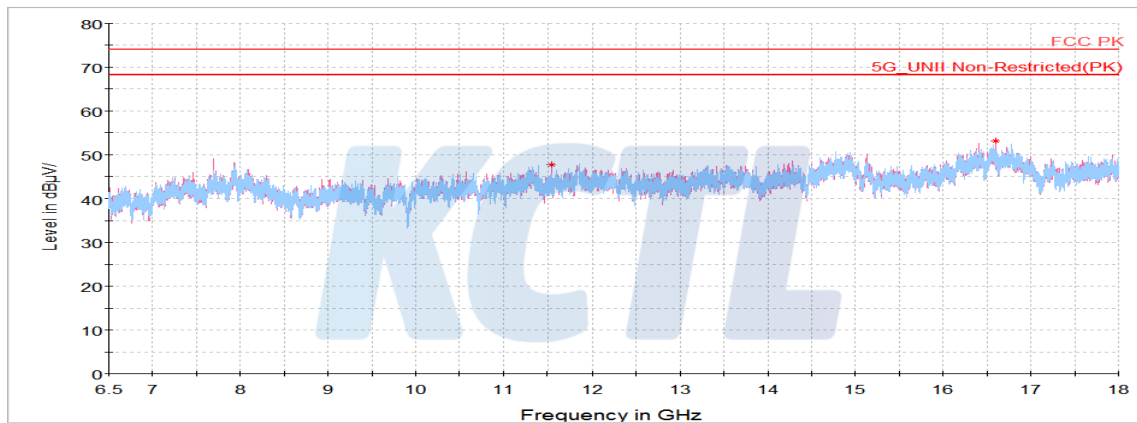
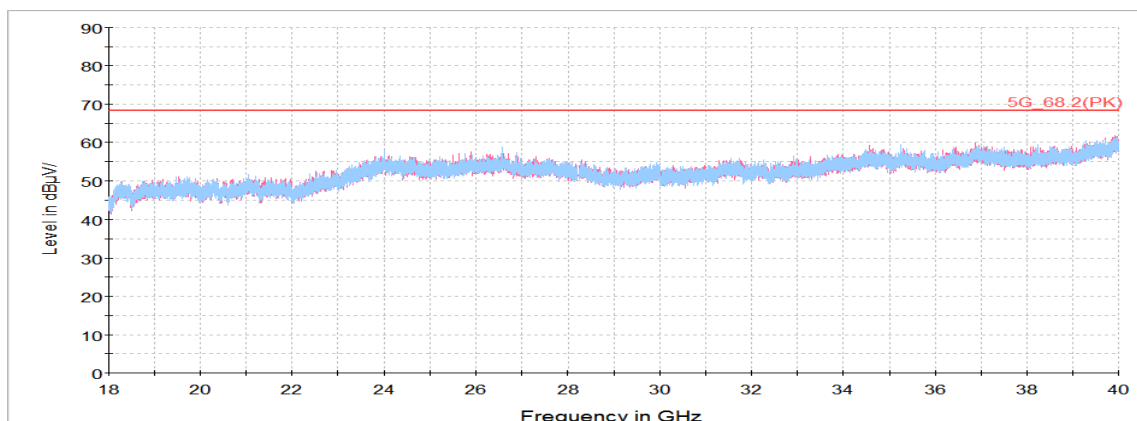
Horizontal/Vertical for Band-edge

Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

802.11ac VHT80 UNII-3**Lowest Channel (5 775 MHz)**

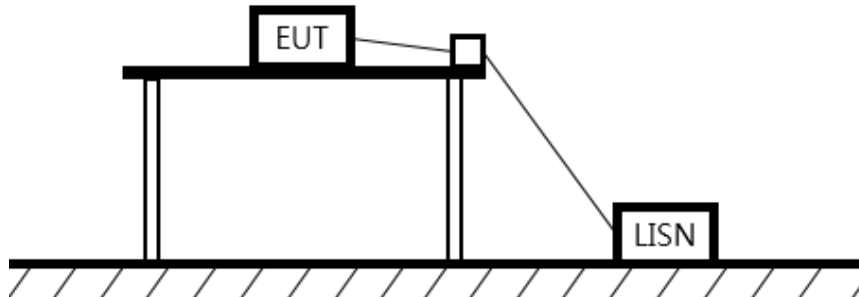
Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
5 722.44	H	51.35	35.07	-25.88	-	60.54	116.36	55.82
5 854.44	H	49.86	35.23	-26.65	-	58.44	112.08	53.64
11 549.94 ¹⁾	V	59.31	38.06	-49.75	-	47.62	74.00	26.38
16 595.92	V	56.95	41.60	-45.49	-	53.06	68.20	15.14
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

Horizontal/Vertical for Band-edge

Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

7.7. AC Conducted emission

Test setup



Limit

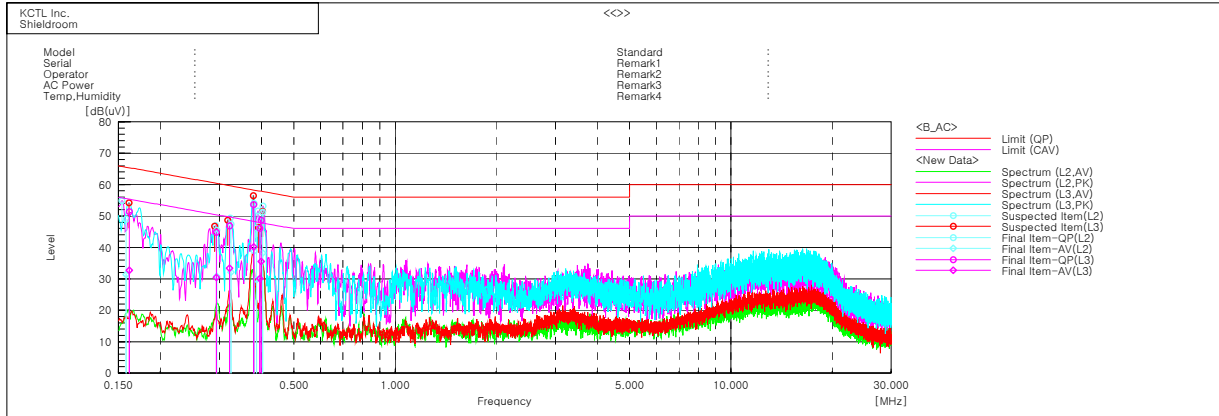
§15.407

According to 15.207(a), for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohm line impedance stabilization network (LISN). Compliance with the provision of this paragraph shall on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower applies at the boundary between the frequencies ranges.

Frequency of Emission (MHz)	Conducted limit (dB μ V/m)	
	Quasi-peak	Average
0.15 – 0.50	66 - 56*	56 - 46*
0.50 – 5.00	56	46
5.00 – 30.0	60	50

Measurement procedure

1. The EUT was placed on a wooden table of size, 1 m by 1.5 m, raised 80 cm in which is located 40 cm away from the vertical wall and 1.5m away from the side wall of the shielded room.
2. Each current-carrying conductor of the EUT power cord was individually connected through a 50 Ω /50 μ H LISN, which is an input transducer to a spectrum analyzer or an EMI/Field Intensity — Meter, to the input power source.
3. Exploratory measurements were made to identify the frequency of the emission that had the highest amplitude relative to the limit by operating the EUT in a range of typical modes of operation, cable position, and with a typical system equipment configuration and arrangement. Based on the exploratory tests of the EUT, the one EUT cable configuration and arrangement and mode of operation that had produced the emission with the highest amplitude relative to the limit was selected for the final measurement.
4. The final test on all current-carrying conductors of all of the power cords to the equipment that comprises the EUT (but not the cords associated with other non-EUT equipment is the system) was then performed over the frequency range of 0.15 MHz to 30 MHz.
5. The measurements were made with the detector set to peak amplitude within a bandwidth of 10 kHz or to quasi-peak and average within a bandwidth of 9 kHz. The EUT was in transmitting mode during the measurements.

Test results**Worst case: 802.11a / UNII-2C Middle frequency****Final Result****--- L2 Phase ---**

No.	Frequency [MHz]	Reading QP [dB(uV)]	Reading CAV [dB(uV)]	c.f [dB]	Result QP [dB(uV)]	Result CAV [dB(uV)]	Limit QP [dB(uV)]	Limit AV [dB(uV)]	Margin QP [dB]	Margin CAV [dB]
1	0.15822	38.8	21.1	10.2	49.0	31.3	65.6	55.6	16.6	24.3
2	0.29448	35.5	20.8	10.0	45.5	30.8	60.4	50.4	14.9	19.6
3	0.32437	37.4	22.1	10.0	47.4	32.1	59.6	49.6	12.2	17.5
4	0.38064	43.9	28.7	10.1	54.0	38.8	58.3	48.3	4.3	9.5
5	0.38676	36.1	19.7	10.1	46.2	29.8	58.1	48.1	11.9	18.3
6	0.40308	41.1	28.0	10.2	51.3	38.2	57.8	47.8	6.5	9.6

--- L3 Phase ---

No.	Frequency [MHz]	Reading QP [dB(uV)]	Reading CAV [dB(uV)]	c.f [dB]	Result QP [dB(uV)]	Result CAV [dB(uV)]	Limit QP [dB(uV)]	Limit AV [dB(uV)]	Margin QP [dB]	Margin CAV [dB]
1	0.16187	41.1	22.3	10.3	51.4	32.6	65.4	55.4	14.0	22.8
2	0.29416	34.8	20.5	10.0	44.8	30.5	60.4	50.4	15.6	19.9
3	0.32135	36.9	23.4	10.0	46.9	33.4	59.7	49.7	12.8	16.3
4	0.37909	43.5	30.1	10.1	53.6	40.2	58.3	48.3	4.7	8.1
5	0.39588	35.8	19.9	10.2	46.0	30.1	57.9	47.9	11.9	17.8
6	0.39954	38.5	25.4	10.2	48.7	35.6	57.9	47.9	9.2	12.3

8. Measurement equipment

Equipment Name	Manufacturer	Model No.	Serial No.	Next Cal. Date
Spectrum Analyzer	R&S	FSV30	100732	21.01.21
Spectrum Analyzer	R&S	FSV40	100988	21.01.03
Temp & Humid Chamber	Temp & Humid Chamber	Myeongseong R&P	CTHC-50P-DT	20.07.30
DC Power Supply	AGILENT	E3632A	MY40004791	21.05.11
ATTENUATOR	R&S	DNF Dämpfungsglied 10 dB in N-50 Ohm	31212	21.05.11
Attenuator	API Inmet	40AH2W-10	17	21.05.12
EMI TEST RECEIVER	R&S	ESCI7	100732	20.08.22
Bi-Log Antenna	TESEQ	CBL 6112D	37876	20.07.20
Amplifier	SONOMA INSTRUMENT	310N	284608	20.08.22
ATTENUATOR	Agilent	8491B	MY39270292	20.07.20
Horn antenna	ETS.lindgren	3117	155787	20.10.24
Horn antenna	ETS.lindgren	3116	00086632	21.02.17
Attenuator	API Inmet	40AH2W-10	12	21.05.12
Broadband PreAmplifier	SCHWARZBECK	BBV9718	216	20.07.30
AMPLIFIER	L-3 Narda-MITEQ	AMF-7D-01001800 -22-10P	2031196	21.02.12
AMPLIFIER	L-3 Narda-MITEQ	JS44-18004000-33-8P	2000996	21.01.22
LOOP Antenna	R&S	HFH2-Z2	100355	20.08.24
Antenna Mast	Innco Systems	MA4640-XP-ET	-	-
Turn Table	Innco Systems	DT2000	79	-
Antenna Mast	Innco Systems	MA4000-EP	303	-
Turn Table	Innco Systems	DT2000	79	-
High pass Filter	WT	WT-A1699-HS	WT160411002	21.05.11
TWO-LINE V - NETWORK	R&S	ENV216	101358	20.10.02
EMI TEST RECEIVER	R&S	ESCI	100001	20.08.22
Vector Signal Generator	R&S	SMBV100A	257566	20.07.16*
Signal Generator	R&S	SMR40	100007	21.04.08
Cable Assembly	RadiAll	2301761768000PJ	1724.659	-
Cable Assembly	gigalane	RG-400	-	-
Cable Assembly	HUER+SUHNER	SUCOFLEX 104	MY4342/4	-

End of test report