

802.11n HT40 UNII-2A ANT2

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								
10 551.59	H	58.25	37.34	-48.34	-	47.25	68.20	20.95
15 817.52 ¹⁾	V	53.26	40.75	-44.52	-	49.49	74.00	24.51
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

Highest Channel (5 310 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								
5 350.27 ¹⁾	H	42.24	34.30	-24.61	-	51.93	74.00	22.07
10 628.50 ¹⁾	H	57.82	37.40	-48.30	-	46.92	74.00	27.08
15 950.84 ¹⁾	V	52.94	40.86	-44.65	-	49.15	74.00	24.85
Average Data								
5 350.27 ¹⁾	H	32.90	34.30	-24.61	0.24	42.83	54.00	11.17

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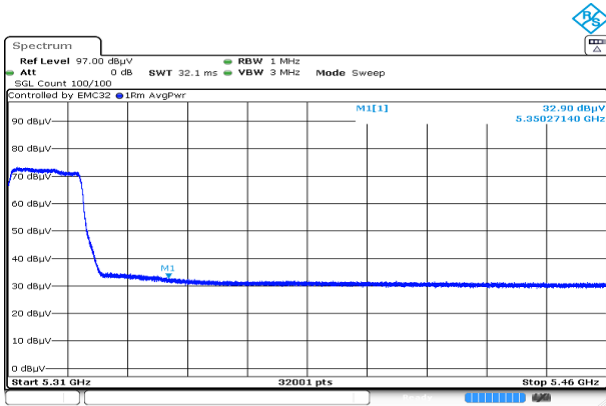
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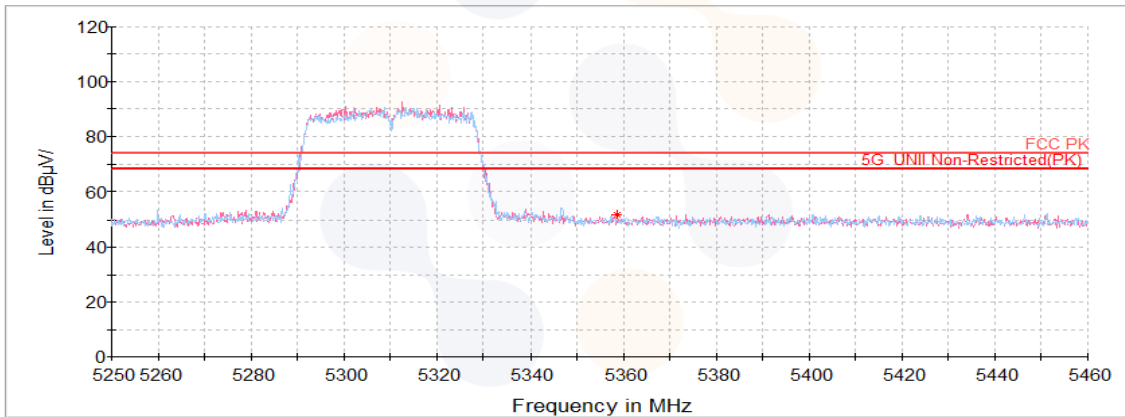
Highest Channel (5 310 MHz)

Average data



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Horizontal/Vertical for Band-edge



802.11n HT40 UNII-2A 2TX MIMO

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 N/m))	(dB(μ N/m))	(dB)
Peak data								
10 551.59	H	58.17	37.34	-48.34	-	47.17	68.20	21.03
15 838.00 ¹⁾	H	53.95	40.77	-44.54	-	50.18	74.00	23.82
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

Highest Channel (5 310 MHz)

Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μ V))	(dB)	(dB)	(dB)	(dB(μ N/m))	(dB(μ N/m))	(dB)
Peak data								
5 350.65 ¹⁾	V	48.33	34.30	-24.61	-	58.02	74.00	15.98
10 648.63 ¹⁾	V	58.66	37.42	-48.29	-	47.79	74.00	26.21
15 907.36 ¹⁾	H	53.30	40.83	-44.61	-	49.52	74.00	24.48
Average Data								
5 350.65 ¹⁾	V	40.82	34.30	-24.61	0.43	50.94	54.00	3.06

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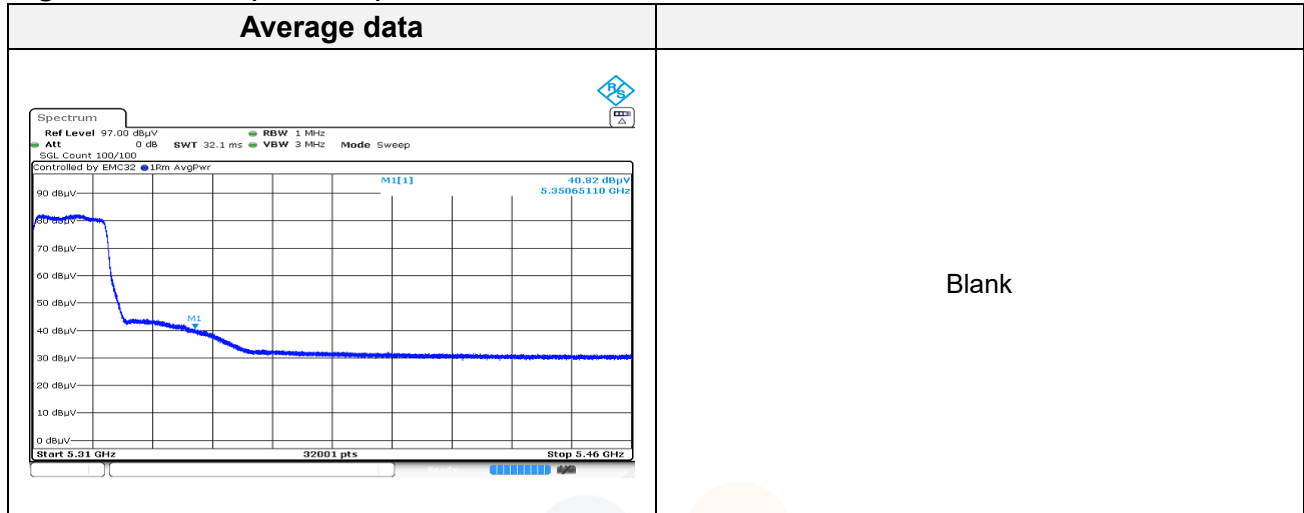
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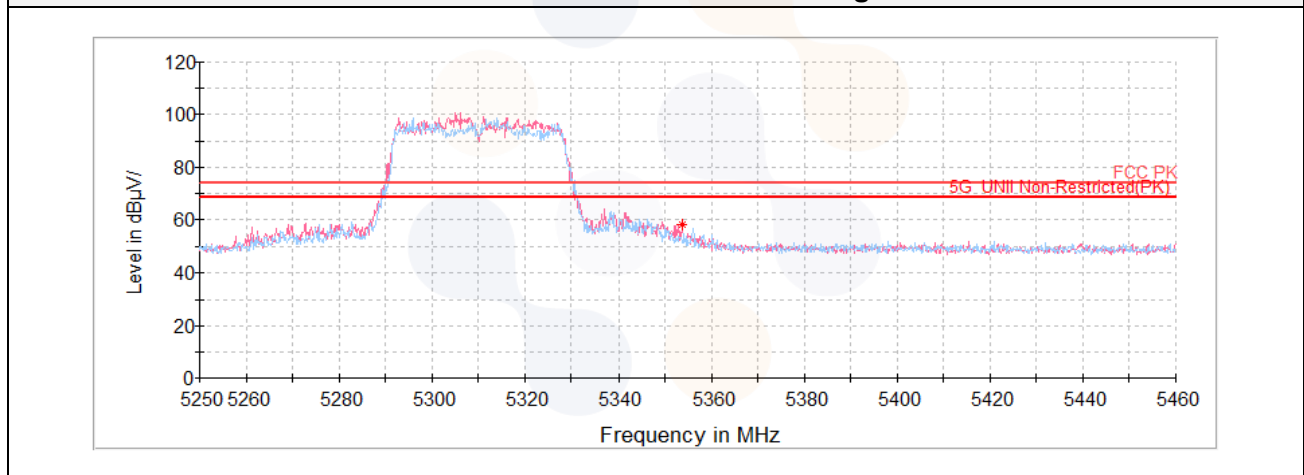


802.11n HT40 UNII-2A 2TX MIMO

Highest Channel (5 310 MHz)



Horizontal/Vertical for Band-edge



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**802.11ac VHT20 UNII-2A ANT1****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								
7 763.20	H	60.21	35.41	-49.48	-	46.14	68.20	22.06
10 523.92	H	58.11	37.32	-48.36	-	47.07	68.20	21.13
15 715.81 ¹⁾	H	54.12	40.67	-44.42	-	50.37	74.00	23.63
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

Middle Channel (5 280 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								
10 560.58	V	59.03	37.35	-48.34	-	48.04	68.20	20.16
15 945.81 ¹⁾	H	54.29	40.86	-44.65	-	50.50	74.00	23.50
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

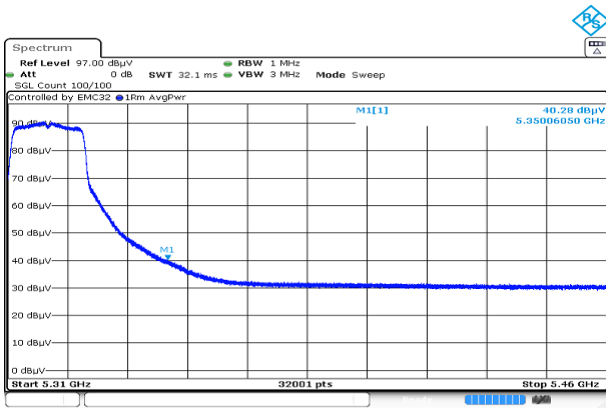
Highest Channel (5 320 MHz)

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								
5 350.06 ¹⁾	H	45.73	34.30	-24.61	-	55.42	74.00	18.58
10 532.19	H	59.01	37.33	-48.35	-	47.99	68.20	20.21
16 007.63 ¹⁾	H	53.66	41.82	-44.70	-	50.78	74.00	23.22
16 255.23	V	54.81	42.46	-44.64	-	52.63	68.20	15.57
Average Data								
5 350.06 ¹⁾	H	40.28	34.30	-24.61	0.12	50.09	54.00	3.91

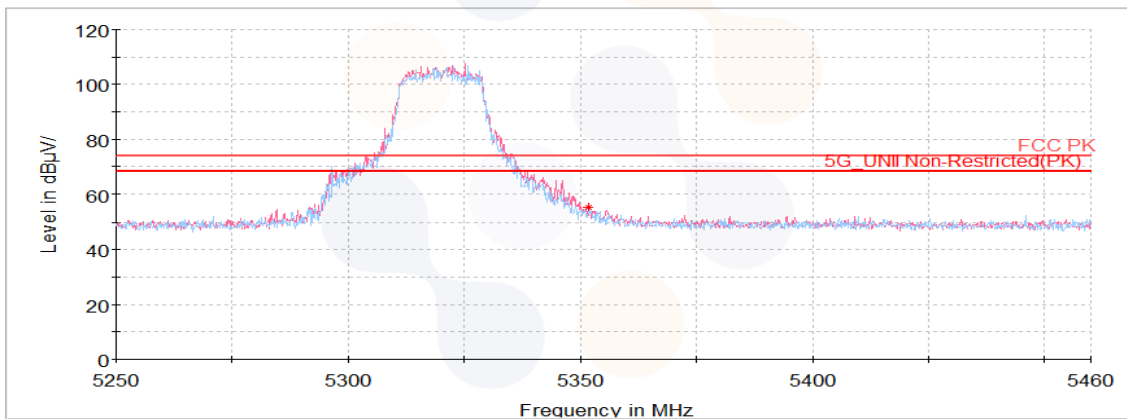
802.11ac VHT20 UNII-2A ANT1

Highest Channel (5 320 MHz)

Average data



Horizontal/Vertical for Band-edge



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**802.11ac VHT20 UNII-2A ANT2****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								
10 507.75	H	57.63	37.31	-48.37	-	46.57	68.20	21.63
15 760.73 ¹⁾	V	53.46	40.71	-44.47	-	49.70	74.00	24.30
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

Middle Channel (5 280 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								
6 723.17	V	60.46	35.39	-49.69	-	46.16	68.20	22.04
8 684.64	V	59.96	35.65	-49.08	-	46.53	68.20	21.67
10 560.58	H	59.79	37.35	-48.34	-	48.80	68.20	19.40
15 896.58 ¹⁾	V	53.41	40.82	-44.60	-	49.63	74.00	24.37
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

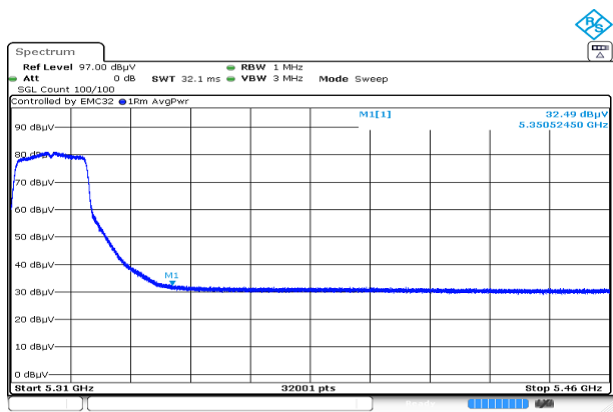
Highest Channel (5 320 MHz)

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								
5 350.52 ¹⁾	H	42.13	34.30	-24.61	-	51.82	74.00	22.18
10 636.41 ¹⁾	H	59.62	37.41	-48.30	-	48.73	74.00	25.27
15 920.30 ¹⁾	H	53.44	40.84	-44.62	-	49.66	74.00	24.34
Average Data								
5 350.52 ¹⁾	H	32.49	34.30	-24.61	0.12	42.30	54.00	11.70

802.11ac VHT20 UNII-2A ANT2

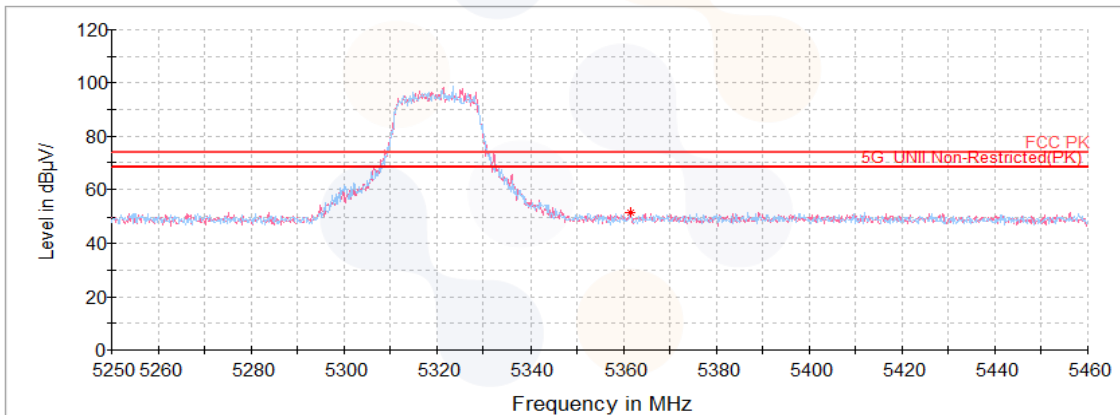
Highest Channel (5 320 MHz)

Average data



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Horizontal/Vertical for Band-edge



802.11ac VHT20 UNII-2A 2TX MIMO

Lowest Channel (5 260 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								
10 523.56	H	60.75	37.32	-48.36	-	49.71	68.20	18.49
15 756.42 ¹⁾	V	52.89	40.71	-44.46	-	49.14	74.00	24.86
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

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								
10 559.14	H	61.40	37.35	-48.34	-	50.41	68.20	17.79
15 864.95 ¹⁾	H	53.68	40.79	-44.57	-	49.90	74.00	24.10
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

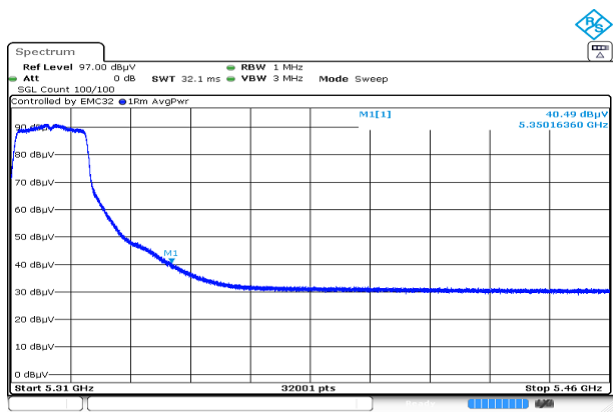
Highest Channel (5 320 MHz)

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								
5 350.16 ¹⁾	V	48.50	34.30	-24.61	-	58.19	74.00	15.81
10 640.00 ¹⁾	H	61.61	37.41	-48.30	-	50.72	74.00	23.28
15 976.72 ¹⁾	H	53.33	40.88	-44.68	-	49.53	74.00	24.47
Average Data								
5 350.16 ¹⁾	V	40.49	34.30	-24.61	0.22	50.40	54.00	3.60

802.11ac VHT20 UNII-2A 2TX MIMO

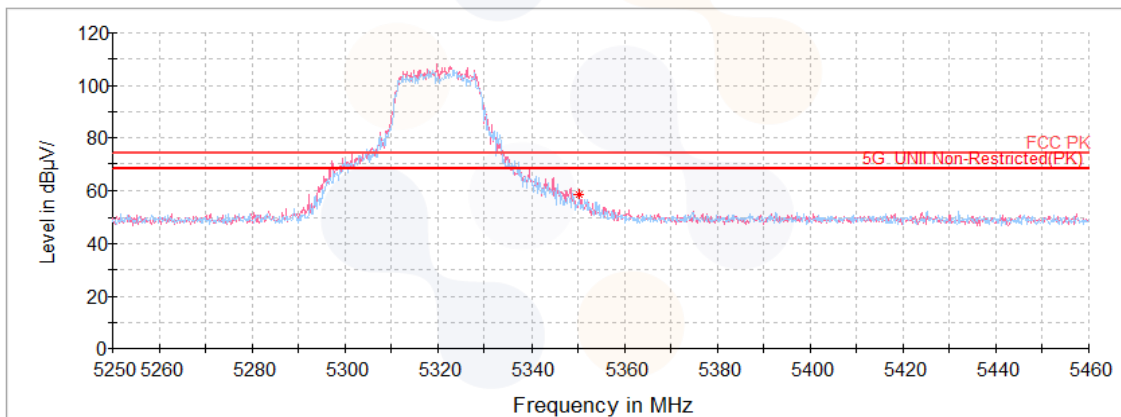
Highest Channel (5 320 MHz)

Average data



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Horizontal/Vertical for Band-edge



802.11ac VHT40 UNII-2A ANT1

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								
10 618.08 ¹⁾	V	58.26	37.39	-48.31	-	47.34	74.00	26.66
15 921.73 ¹⁾	V	54.16	40.84	-44.62	-	50.38	74.00	23.62
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

Highest Channel (5 310 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								
5 350.02 ¹⁾	V	46.79	34.30	-24.61	-	56.48	74.00	17.52
10 630.66 ¹⁾	V	58.48	37.40	-48.30	-	47.58	74.00	26.42
12 400.22 ¹⁾	V	57.95	39.54	-47.09	-	50.40	74.00	23.60
15 936.11 ¹⁾	V	54.05	40.85	-44.64	-	50.26	74.00	23.74
Average Data								
5 350.02 ¹⁾	V	39.44	34.30	-24.61	0.23	49.36	54.00	4.64

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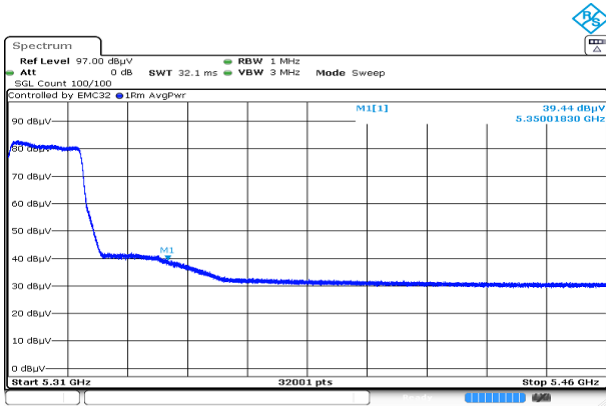
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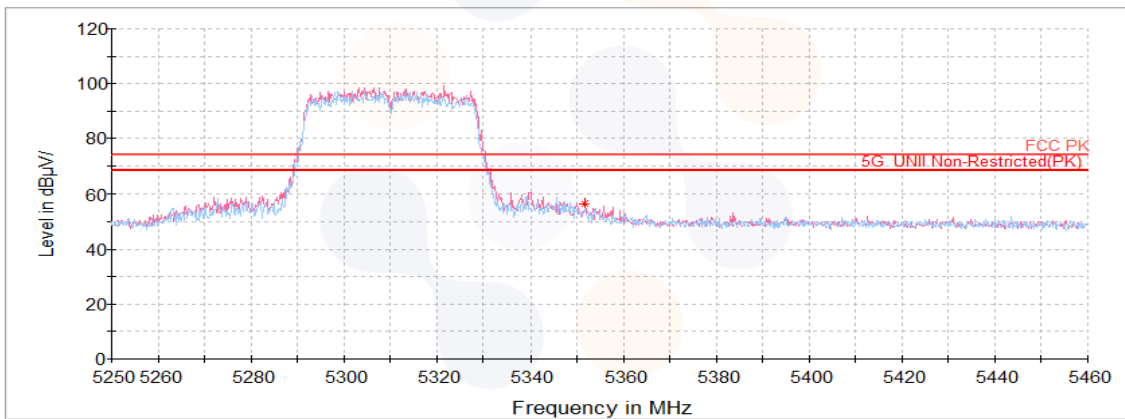
Highest Channel (5 310 MHz)

Average data



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Horizontal/Vertical for Band-edge



802.11ac VHT40 UNII-2A ANT2

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								
10 546.56	H	58.35	37.34	-48.35	-	47.34	68.20	20.86
15 821.47 ¹⁾	H	54.13	40.76	-44.53	-	50.36	74.00	23.64
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

Highest Channel (5 310 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								
5 350.02 ¹⁾	H	42.77	34.30	-24.61	-	52.46	74.00	21.54
10 635.69 ¹⁾	H	59.27	37.41	-48.30	-	48.38	74.00	25.62
15 918.86 ¹⁾	V	53.51	40.84	-44.62	-	49.73	74.00	24.27
Average Data								
5 350.02 ¹⁾	H	32.97	34.30	-24.61	0.23	42.89	54.00	11.11

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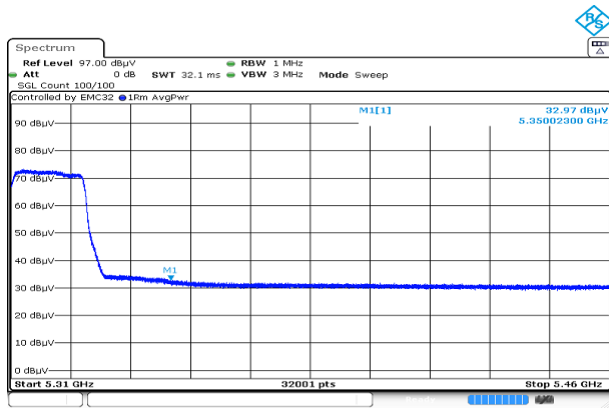
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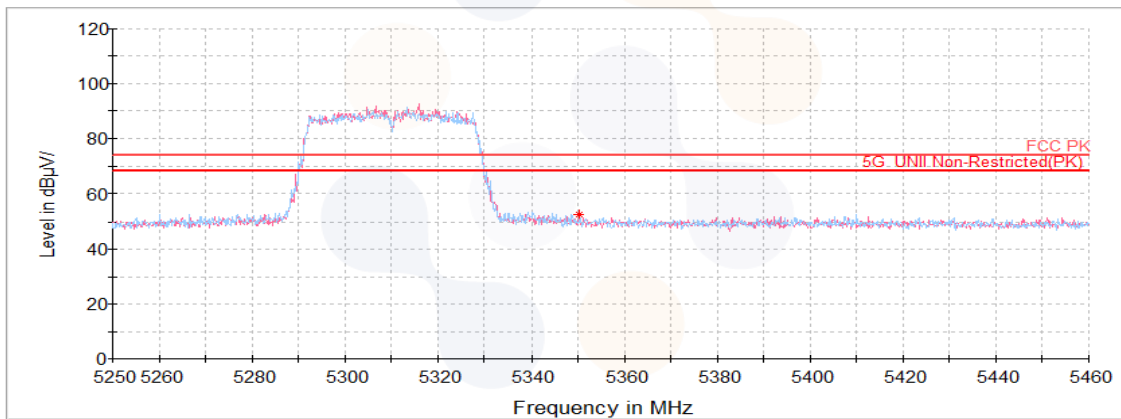
Highest Channel (5 310 MHz)

Average data



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Horizontal/Vertical for Band-edge



802.11ac VHT40 UNII-2A 2TX MIMO

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								
10 530.03	H	58.96	37.32	-48.36	-	47.92	68.20	20.28
15 853.81 ¹⁾	V	53.49	40.78	-44.56	-	49.71	74.00	24.29
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

Highest Channel (5 310 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								
5 350.97 ¹⁾	V	49.29	34.30	-24.61	-	58.98	74.00	15.02
10 602.98 ¹⁾	V	57.57	37.38	-48.32	-	46.63	74.00	27.37
15 952.28 ¹⁾	H	53.89	40.86	-44.65	-	50.10	74.00	23.90
Average Data								
5 350.97 ¹⁾	V	40.47	34.30	-24.61	0.41	50.57	54.00	3.43

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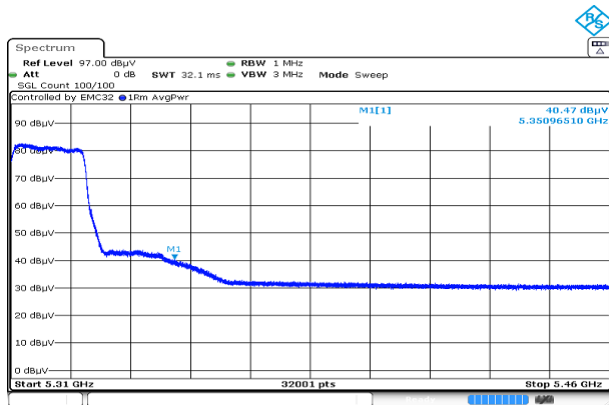
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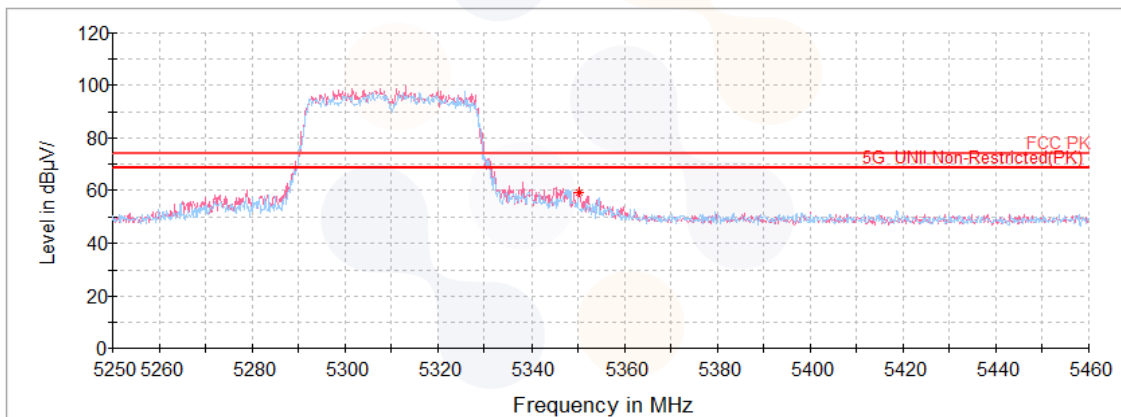
Highest Channel (5 310 MHz)

Average data



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Horizontal/Vertical for Band-edge



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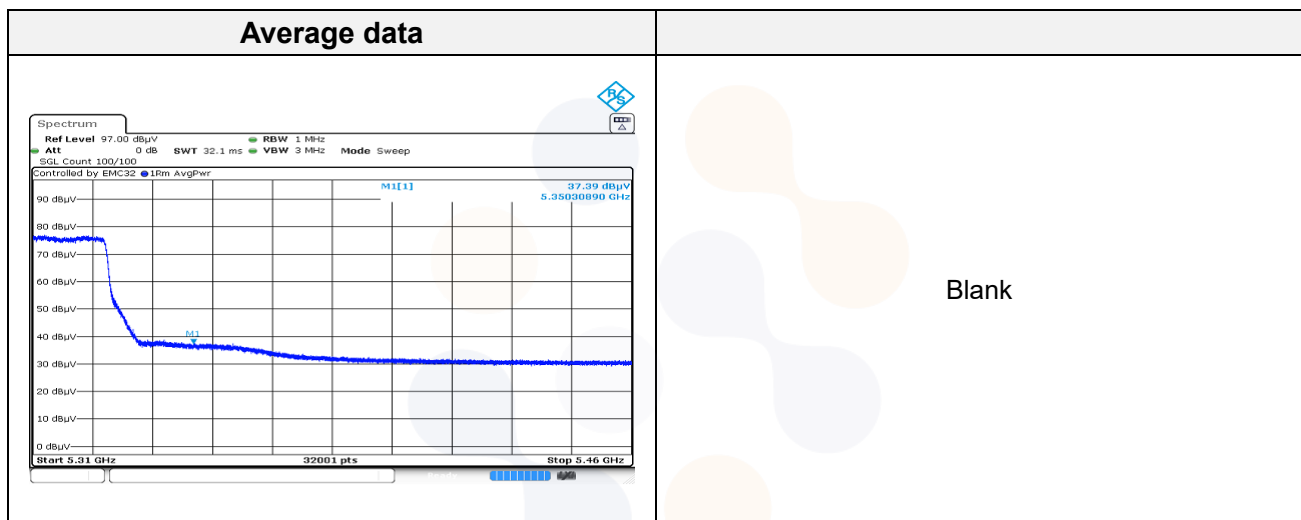
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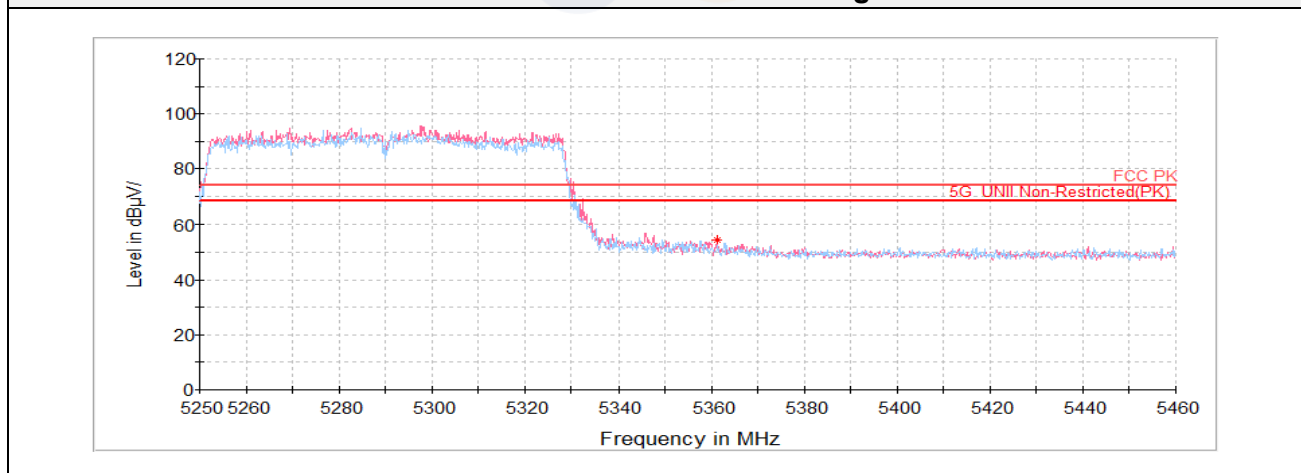
802.11ac VHT80 UNII-2A ANT1

Lowest Channel (5 290 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								
5 350.31 ¹⁾	V	44.72	34.30	-24.61	-	54.41	74.00	19.59
10 624.19 ¹⁾	H	57.89	37.40	-48.30	-	46.99	74.00	27.01
15 837.28 ¹⁾	H	53.98	40.77	-44.54	-	50.21	74.00	23.79
Average Data								
5 350.31 ¹⁾	V	37.39	34.30	-24.61	0.46	47.54	54.00	6.46



Horizontal/Vertical for Band-edge



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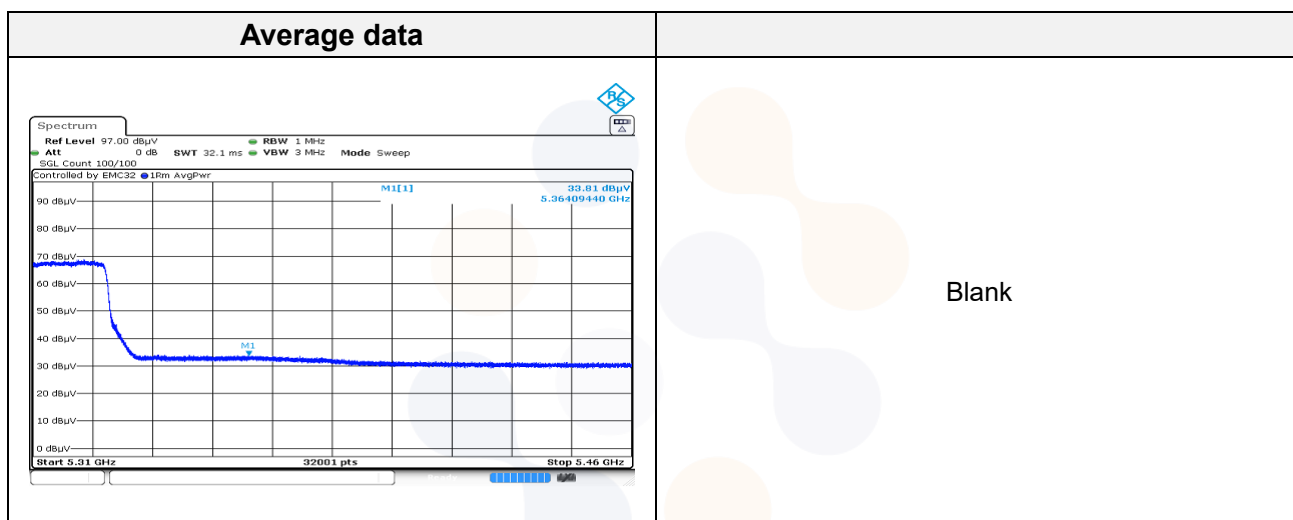


KCTL

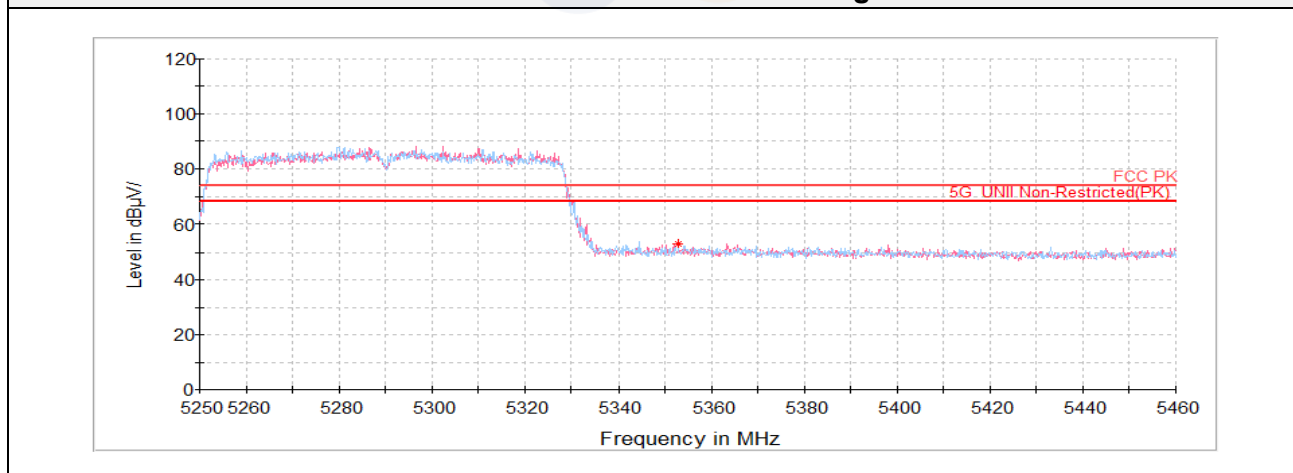
802.11ac VHT80 UNII-2A ANT2

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								
5 364.09 ¹⁾	H	43.23	34.33	-24.56	-	53.00	74.00	21.00
10 586.45	V	57.72	37.37	-48.33	-	46.76	68.20	21.44
15 857.05 ¹⁾	H	52.68	40.79	-44.56	-	48.91	74.00	25.09
Average Data								
5 364.09 ¹⁾	H	33.81	34.33	-24.56	0.46	44.04	54.00	9.96



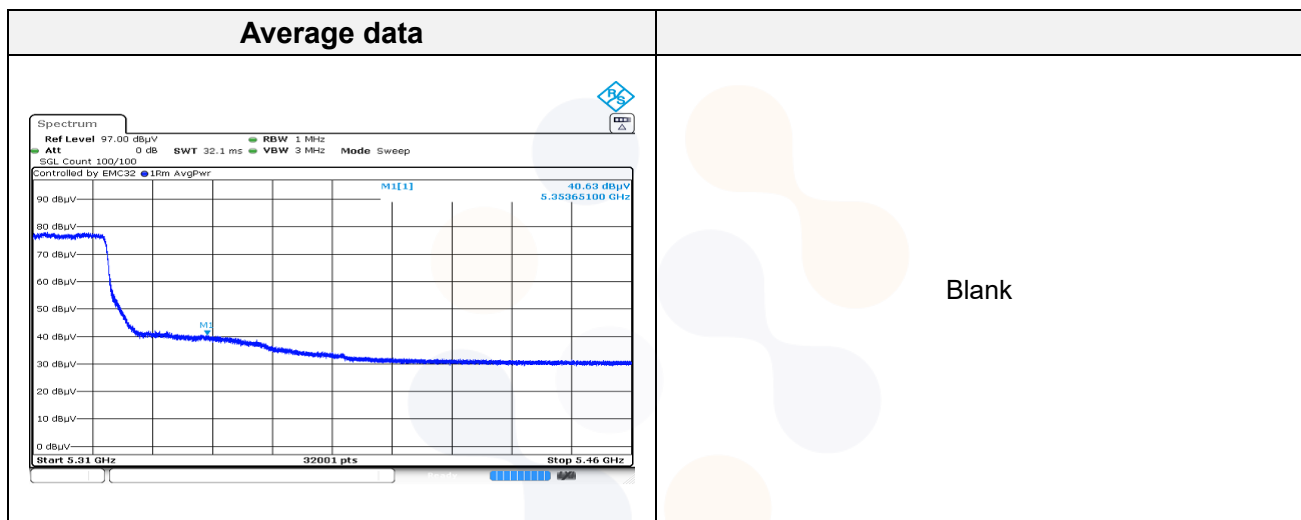
Horizontal/Vertical for Band-edge



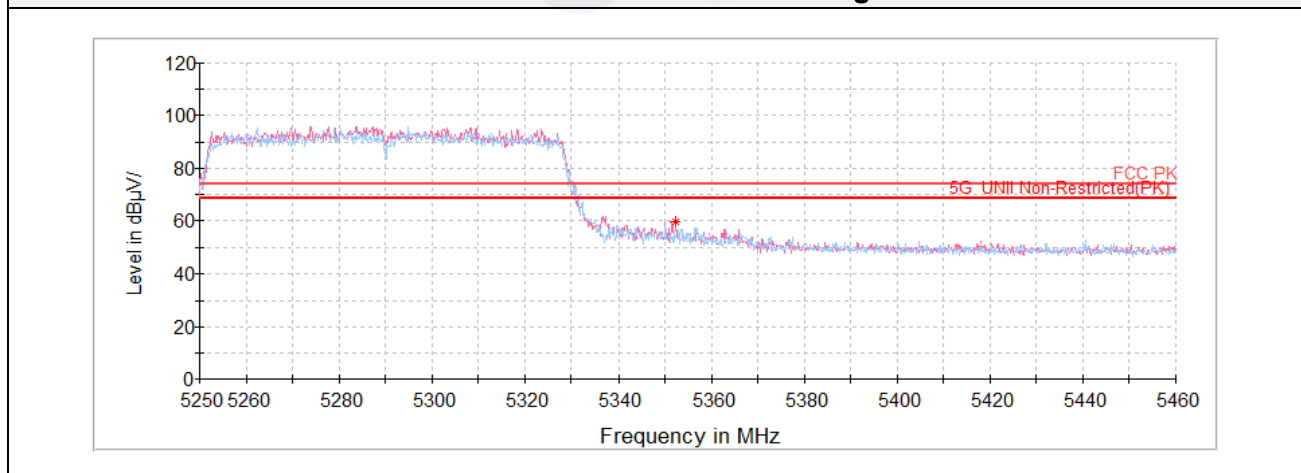
802.11ac VHT80 UNII-2A 2TX MIMO

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								
5 353.65 ¹⁾	V	49.56	34.31	-24.60	-	59.27	74.00	14.73
10 607.66 ¹⁾	V	57.70	37.39	-48.31	-	46.78	74.00	27.22
15 932.88 ¹⁾	V	54.71	40.85	-44.64	-	50.92	74.00	23.08
Average Data								
5 353.65 ¹⁾	V	40.63	34.31	-24.60	0.75	51.09	54.00	2.91



Horizontal/Vertical for Band-edge

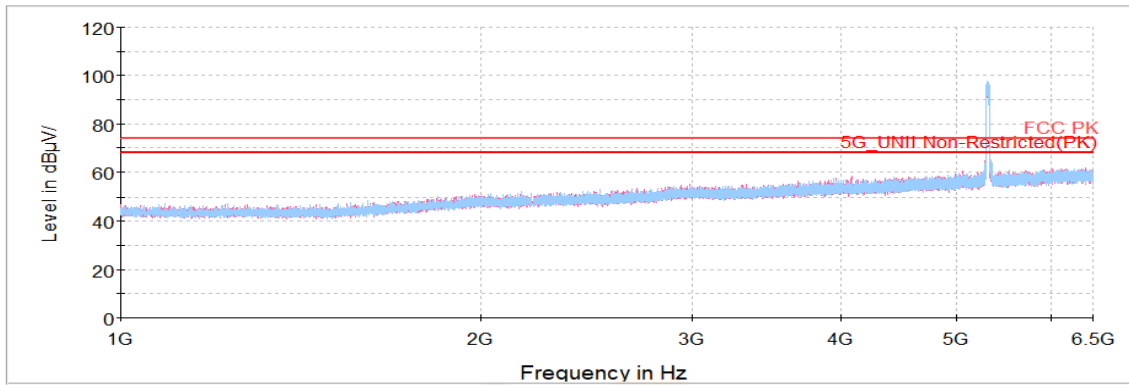


Plot of Harmonics and Spurious Emissions

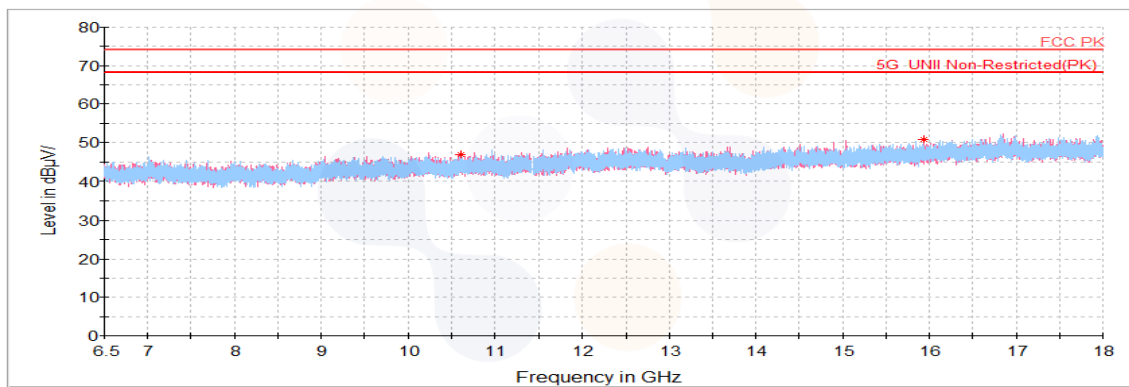
In order to simplify the report, attached plots were only the lowest margin condition

802.11ac VHT80 UNII-2A_2TX MIMO_ Lowest Channel (5 290 MHz)

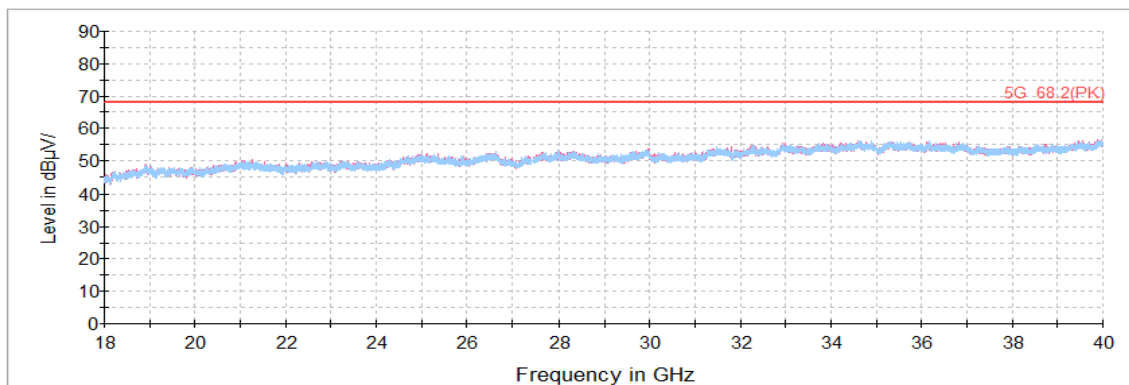
Horizontal/Vertical for 1 GHz ~ 6.5 GHz



Horizontal/Vertical for 6.5 GHz ~ 18 GHz



Horizontal/Vertical for 18 GHz ~ 40 GHz



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**802.11a UNII-2C ANT1****Lowest Channel (5 500 MHz)**

Frequency (MHz)	Pol. (V/H)	Reading (dB(μV))	Ant. Factor (dB)	Amp.+Cable (dB)	DCF (dB)	Result (dB(μV/m))	Limit (dB(μV/m))	Margin (dB)
Peak data								
5 459.84 ¹⁾	V	42.24	34.52	-24.41	-	52.35	74.00	21.65
10 999.32 ¹⁾	H	62.01	37.70	-48.10	-	51.61	74.00	22.39
16 525.48	H	52.70	42.64	-44.59	-	50.75	68.20	17.45
Average Data								
5 459.84 ¹⁾	V	33.30	34.52	-24.41	0.11	43.52	54.00	10.48
10 999.32 ¹⁾	H	51.83	37.70	-48.10	0.11	41.54	54.00	12.46

Middle Channel (5 600 MHz)

Frequency (MHz)	Pol. (V/H)	Reading (dB(μV))	Ant. Factor (dB)	Amp.+Cable (dB)	DCF (dB)	Result (dB(μV/m))	Limit (dB(μV/m))	Margin (dB)
Peak data								
11 195.23 ¹⁾	H	58.61	37.86	-48.07	-	48.40	74.00	25.60
16 974.34	V	53.74	43.36	-44.61	-	52.49	68.20	15.71
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

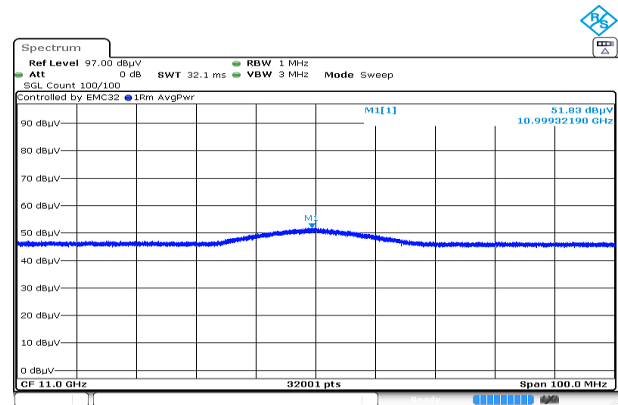
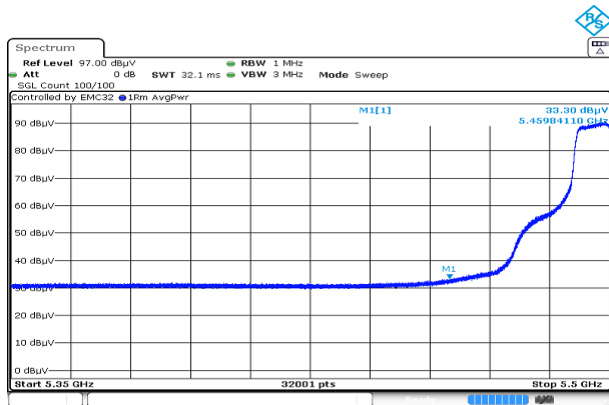
Highest Channel (5 700 MHz)

Frequency (MHz)	Pol. (V/H)	Reading (dB(μV))	Ant. Factor (dB)	Amp.+Cable (dB)	DCF (dB)	Result (dB(μV/m))	Limit (dB(μV/m))	Margin (dB)
Peak data								
5 725.02	V	48.36	34.87	-24.10	-	59.13	68.20	9.07
11 399.72 ¹⁾	V	59.32	38.02	-48.04	-	49.30	74.00	24.70
17 224.11	H	54.78	41.30	-44.64	-	51.44	68.20	16.76
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

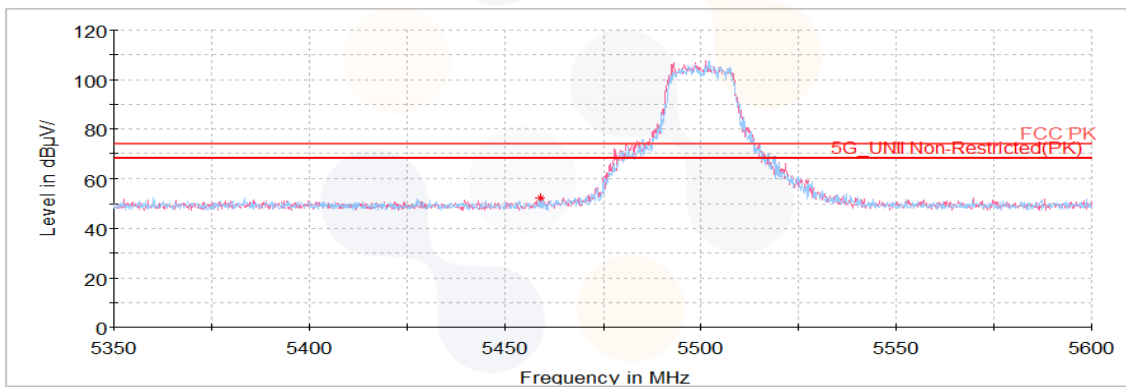
802.11a UNII-2C ANT1

Lowest Channel (5 500 MHz)

Average data

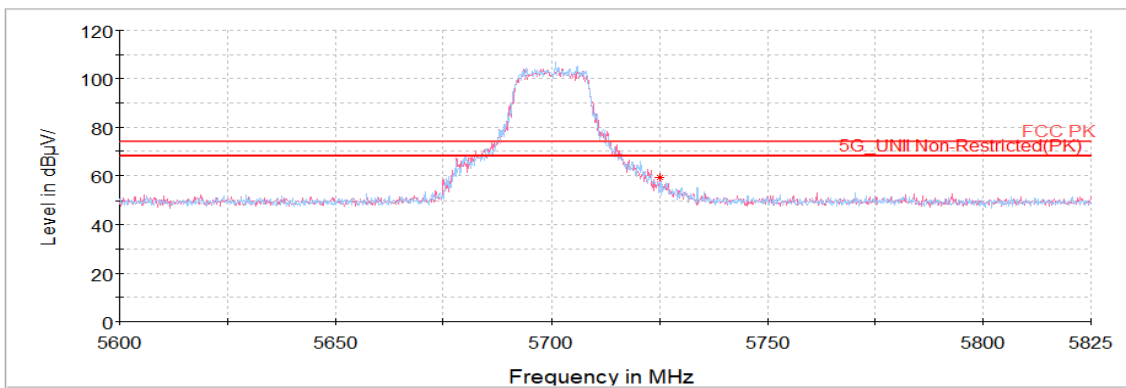


Horizontal/Vertical for Band-edge



Highest Channel (5 700 MHz)

Horizontal/Vertical for Band-edge



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**802.11a UNII-2C ANT2****Lowest Channel (5 500 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								
5 384.19 ¹⁾	H	41.44	34.37	-24.49	-	51.32	74.00	22.68
11 000.56 ¹⁾	H	62.07	37.70	-48.10	-	51.67	74.00	22.33
16 453.97	V	52.51	42.98	-44.60	-	50.89	68.20	17.31
Average Data								
5 384.19 ¹⁾	H	32.01	34.37	-24.49	0.11	42.00	54.00	12.00
11 000.56 ¹⁾	H	55.18	37.70	-48.10	0.11	44.89	54.00	9.11

Middle Channel (5 600 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								
11 200.45 ¹⁾	H	62.62	37.86	-48.07	-	52.41	74.00	21.59
16 835.63	H	52.99	43.14	-44.61	-	51.52	68.20	16.68
Average Data								
11 200.45 ¹⁾	H	55.48	37.86	-48.07	0.11	45.38	54.00	8.62

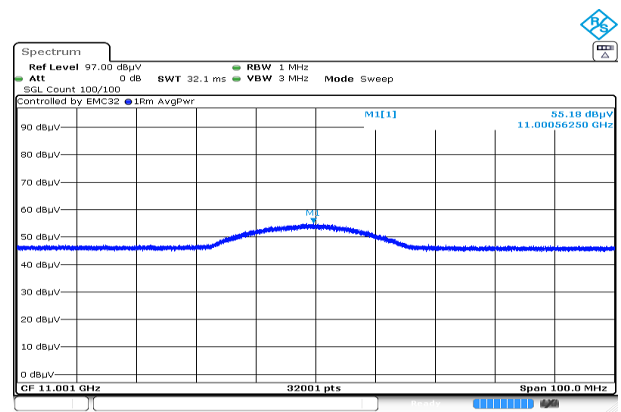
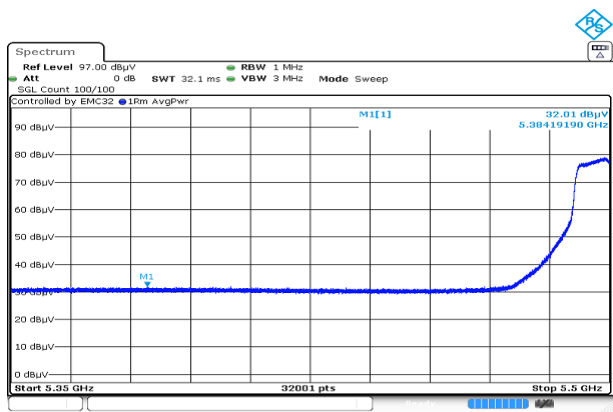
Highest Channel (5 700 MHz)

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								
5 731.20	H	40.87	34.88	-24.09	-	51.66	68.20	16.54
11 399.55 ¹⁾	H	66.66	38.02	-48.04	-	56.64	74.00	17.36
17 124.56	V	53.35	41.48	-44.63	-	50.20	68.20	18.00
Average Data								
11 399.55 ¹⁾	H	58.23	38.02	-48.04	0.11	48.32	54.00	5.68

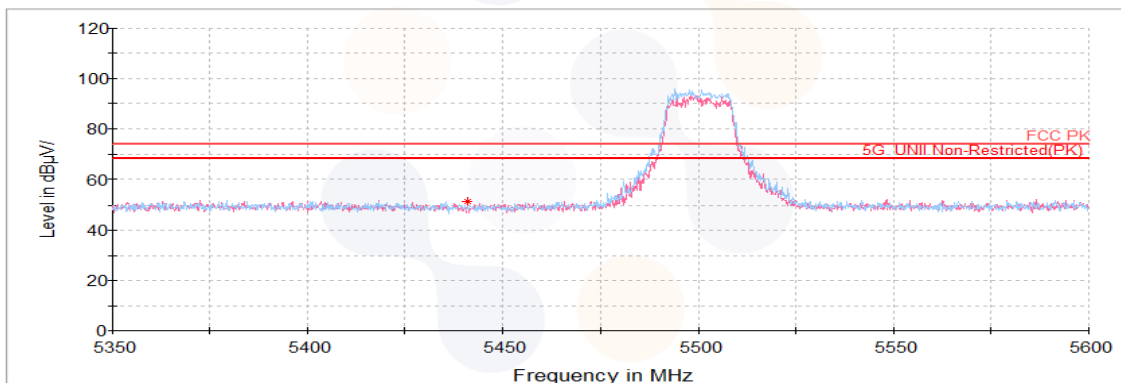
802.11a UNII-2C ANT2

Lowest Channel (5 500 MHz)

Average data



Horizontal/Vertical for Band-edge



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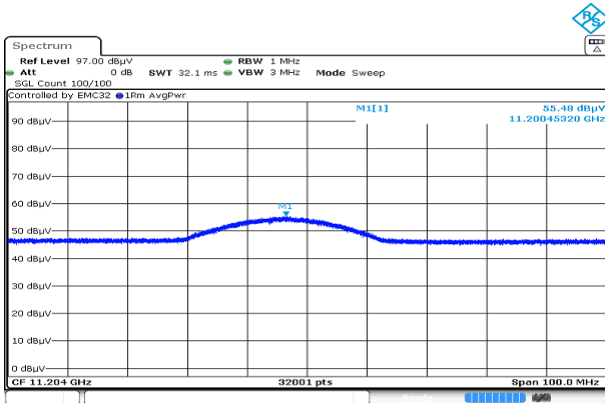
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Middle Channel (5 600 MHz)

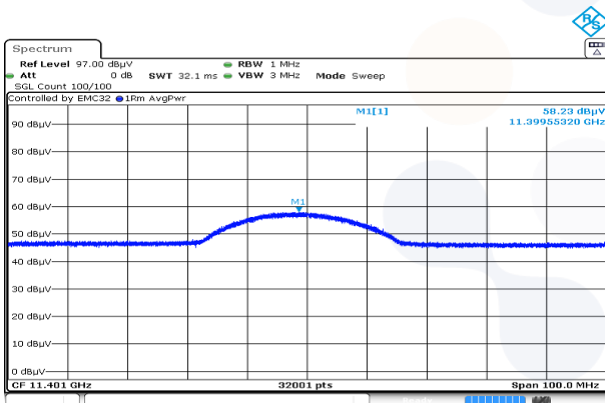
Average data



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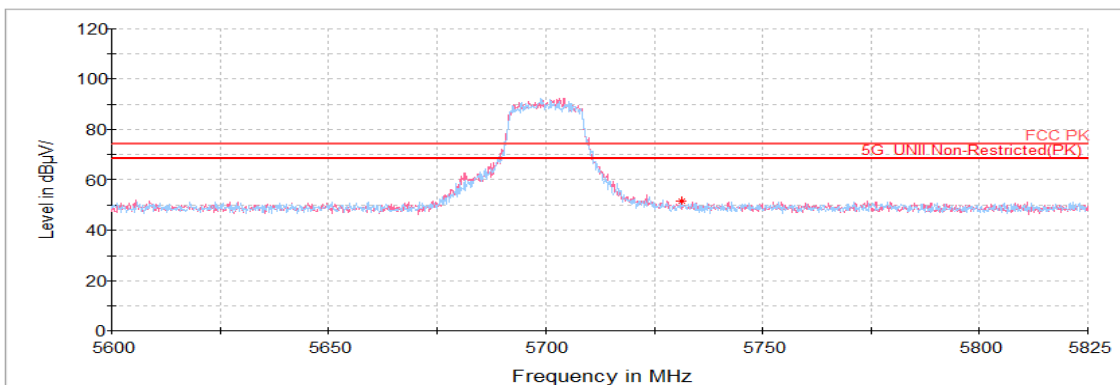
Highest Channel (5 700 MHz)

Average data



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Horizontal/Vertical for Band-edge



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**802.11a UNII-2C 2TX MIMO****Lowest Channel (5 500 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								
5 458.59 ¹⁾	V	42.70	34.52	-24.41	-	52.81	74.00	21.19
11 001.82 ¹⁾	H	64.90	37.70	-48.10	-	54.50	74.00	19.50
16 490.63	V	53.62	43.08	-44.59	-	52.11	68.20	16.09
Average Data								
5 458.59 ¹⁾	V	34.53	34.52	-24.41	0.11	44.75	54.00	9.25
11 001.82 ¹⁾	H	56.48	37.70	-48.10	0.11	46.19	54.00	7.81

Middle Channel (5 600 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								
11 196.84 ¹⁾	H	62.98	37.86	-48.07	-	52.77	74.00	21.23
16 865.09	V	53.30	43.18	-44.61	-	51.87	68.20	16.33
Average Data								
11 196.84 ¹⁾	H	56.46	37.86	-48.07	0.11	46.36	54.00	7.64

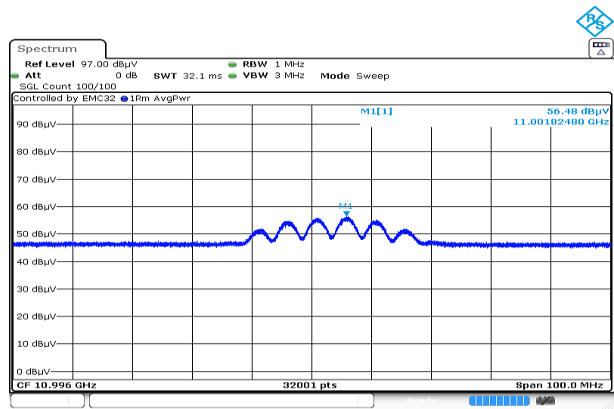
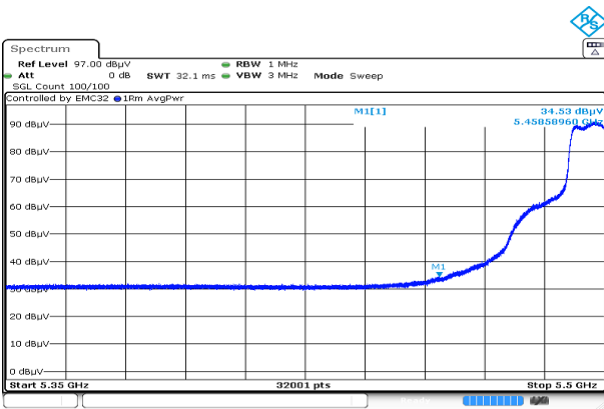
Highest Channel (5 700 MHz)

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								
5 727.59	H	47.88	34.87	-24.10	-	58.65	68.20	9.55
11 401.30 ¹⁾	H	68.13	38.02	-48.04	-	58.11	74.00	15.89
16 201.69	H	55.34	42.32	-44.66	-	53.00	68.20	15.20
17 120.61	H	53.96	41.48	-44.63	-	50.81	68.20	17.39
Average Data								
11 401.30 ¹⁾	H	59.01	38.02	-48.04	0.11	49.10	54.00	4.90

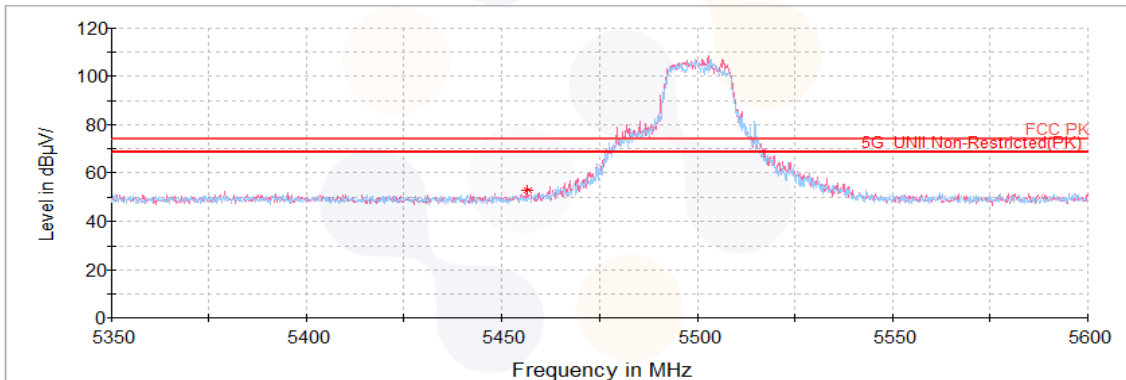
802.11a UNII-2C 2TX MIMO

Lowest Channel (5 500 MHz)

Average data

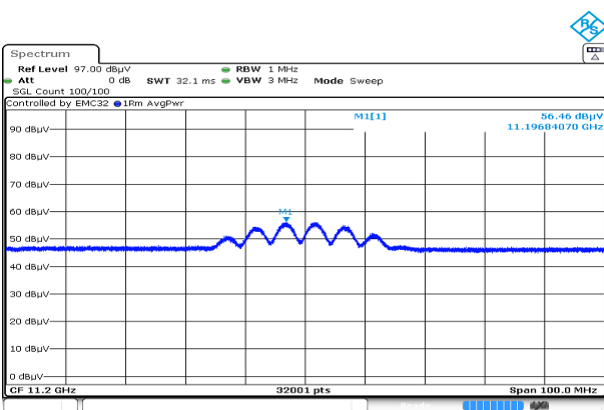


Horizontal/Vertical for Band-edge



Middle Channel (5 600 MHz)

Average data



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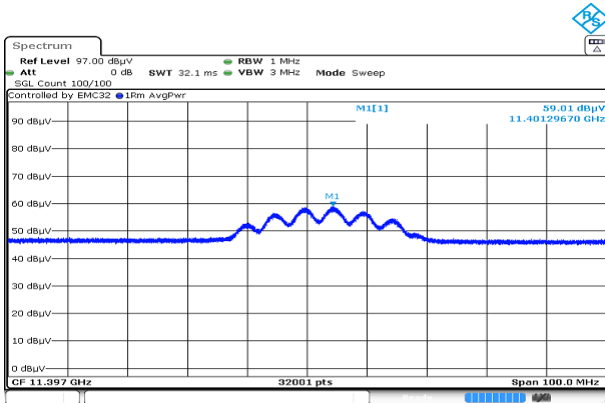
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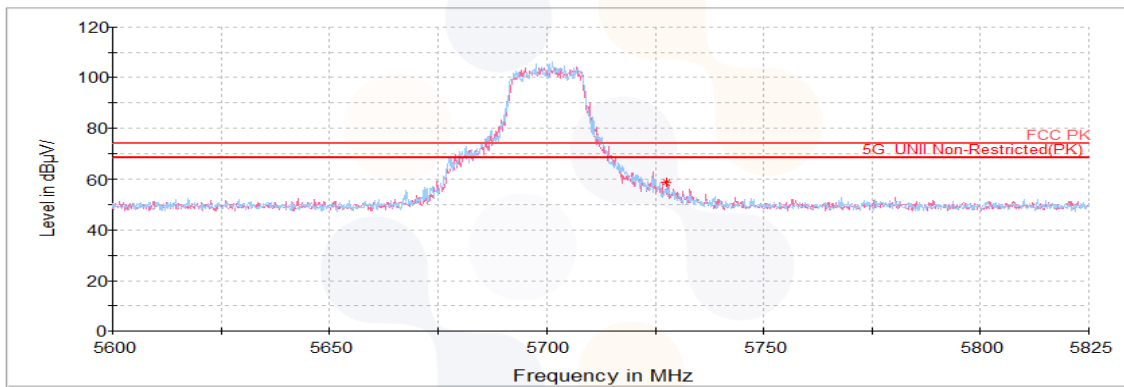
Highest Channel (5 700 MHz)

Average data



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Horizontal/Vertical for Band-edge



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**802.11n HT20 UNII-2C ANT1****Lowest Channel (5 500 MHz)**

Frequency (MHz)	Pol. (V/H)	Reading (dB(μ V))	Ant. Factor (dB)	Amp.+Cable (dB)	DCF (dB)	Result (dB(μ V/m))	Limit (dB(μ V/m))	Margin (dB)
Peak data								
5 459.92 ¹⁾	V	41.78	34.52	-24.41	-	51.89	74.00	22.11
7 036.91	H	60.97	35.49	-49.65	-	46.81	68.20	21.39
11 004.41 ¹⁾	V	60.19	37.70	-48.10	-	49.79	74.00	24.21
16 499.97	V	52.64	43.10	-44.59	-	51.15	68.20	17.05
Average Data								
5 459.92 ¹⁾	V	34.27	34.52	-24.41	0.13	44.51	54.00	9.49

Middle Channel (5 600 MHz)

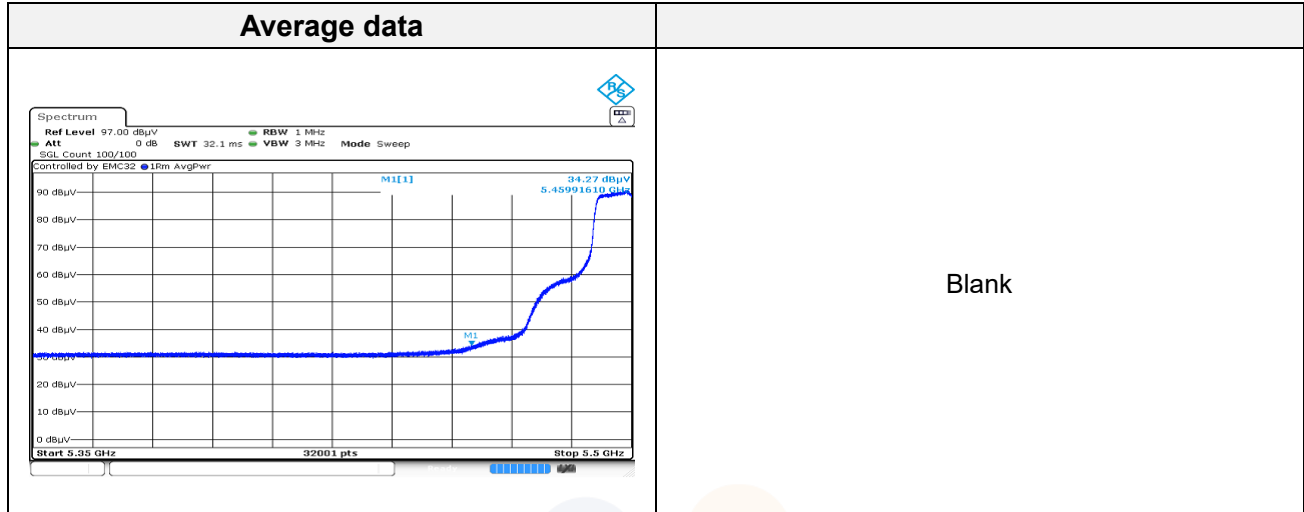
Frequency (MHz)	Pol. (V/H)	Reading (dB(μ V))	Ant. Factor (dB)	Amp.+Cable (dB)	DCF (dB)	Result (dB(μ V/m))	Limit (dB(μ V/m))	Margin (dB)
Peak data								
11 198.47 ¹⁾	H	59.37	37.86	-48.07	-	49.16	74.00	24.84
16 796.45	H	53.89	43.07	-44.61	-	52.35	68.20	15.85
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

Highest Channel (5 700 MHz)

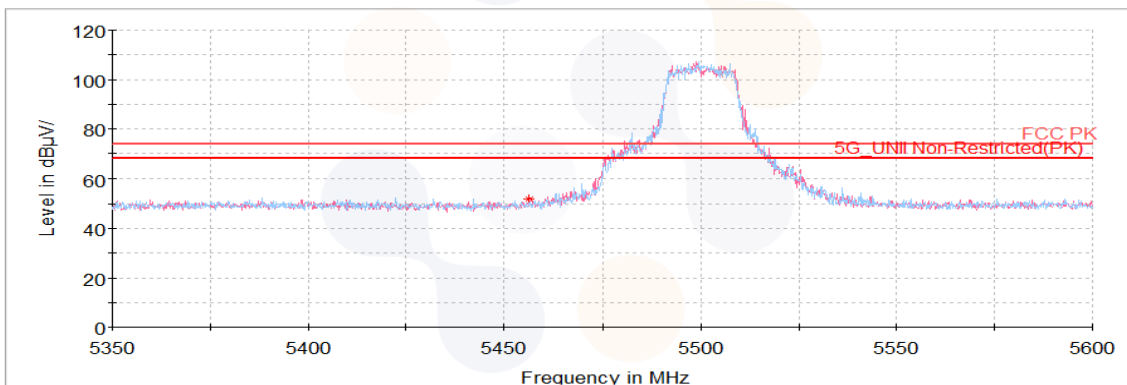
Frequency (MHz)	Pol. (V/H)	Reading (dB(μ V))	Ant. Factor (dB)	Amp.+Cable (dB)	DCF (dB)	Result (dB(μ V/m))	Limit (dB(μ V/m))	Margin (dB)
Peak data								
5 725.19	V	49.06	34.87	-24.10	-	59.83	68.20	8.37
11 396.13 ¹⁾	H	59.04	38.02	-48.04	-	49.02	74.00	24.98
16 996.27	H	52.25	43.39	-44.62	-	51.02	68.20	17.18
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

802.11n HT20 UNII-2C ANT1

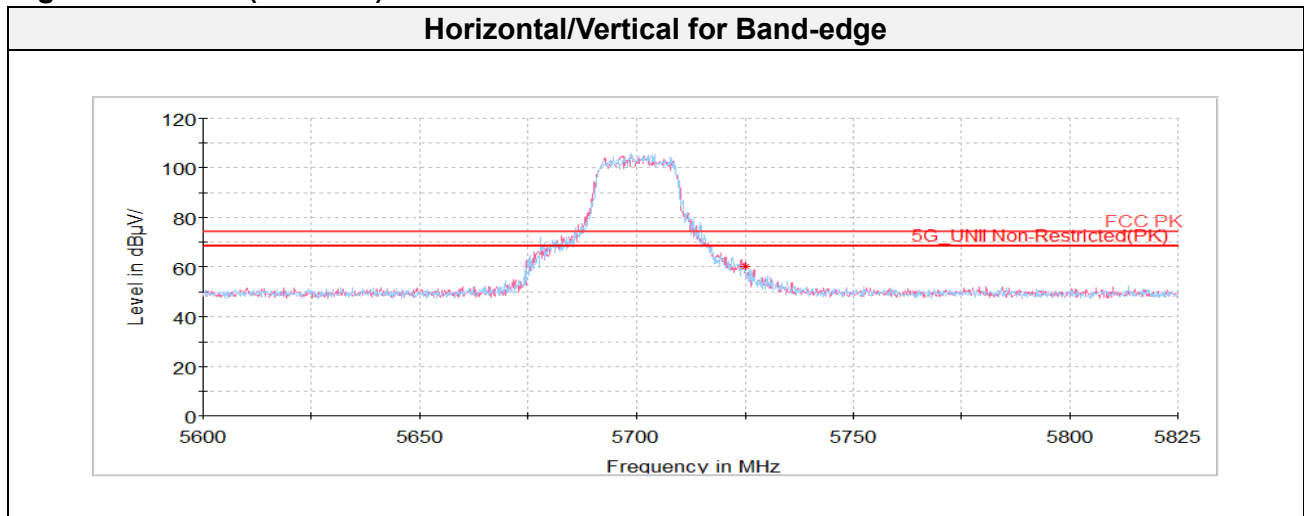
Lowest Channel (5 500 MHz)



Horizontal/Vertical for Band-edge



Highest Channel (5 700 MHz)



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**802.11n HT20 UNII-2C ANT2****Lowest Channel (5 500 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								
5 387.80 ¹⁾	H	41.71	34.38	-24.47	-	51.62	74.00	22.38
7 933.19	V	60.47	35.47	-49.26	-	46.68	68.20	21.52
9 398.72 ¹⁾	V	60.23	36.30	-48.58	-	47.95	74.00	26.05
10 998.70 ¹⁾	H	61.92	37.70	-48.10	-	51.52	74.00	22.48
16 622.88	V	53.22	42.80	-44.60	-	51.42	68.20	16.78
Average Data								
5 387.80 ¹⁾	H	31.98	34.38	-24.47	0.13	42.02	54.00	11.98
10 998.70 ¹⁾	H	55.52	37.70	-48.10	0.13	45.25	54.00	8.75

Middle Channel (5 600 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								
11 198.07 ¹⁾	H	61.63	37.86	-48.07	-	51.42	74.00	22.58
16 841.73	V	53.00	43.15	-44.61	-	51.54	68.20	16.66
Average Data								
11 198.07 ¹⁾	H	54.49	37.86	-48.07	0.13	44.41	54.00	9.59

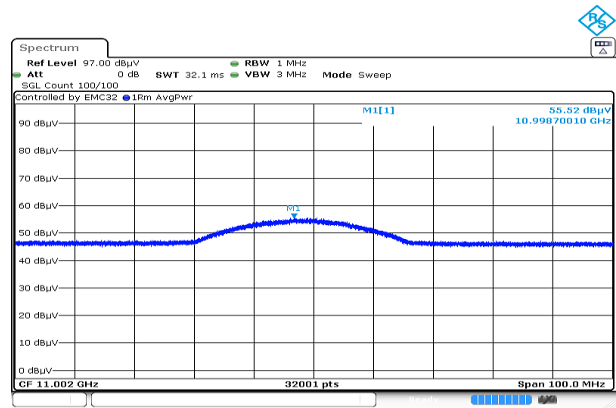
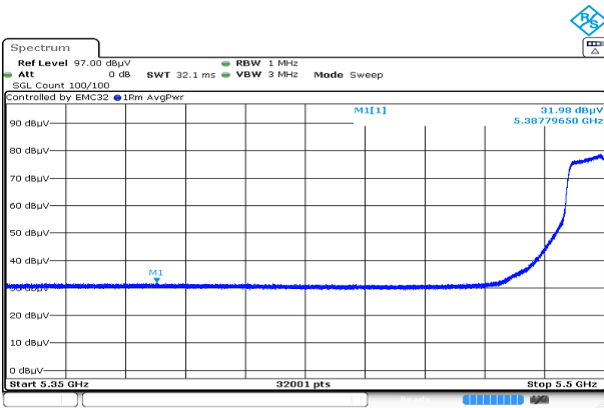
Highest Channel (5 700 MHz)

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								
5 784.48	V	41.55	34.94	-24.02	-	52.47	68.20	15.73
10 651.86 ¹⁾	V	59.35	37.42	-48.29	-	48.48	74.00	25.52
11 399.03 ¹⁾	H	64.35	38.02	-48.04	-	54.33	74.00	19.67
17 150.08	H	53.14	41.43	-44.63	-	49.94	68.20	18.26
17 370.38	V	55.81	41.03	-44.66	-	52.18	68.20	16.02
Average Data								
11 399.03 ¹⁾	H	57.67	38.02	-48.04	0.13	47.78	54.00	6.22

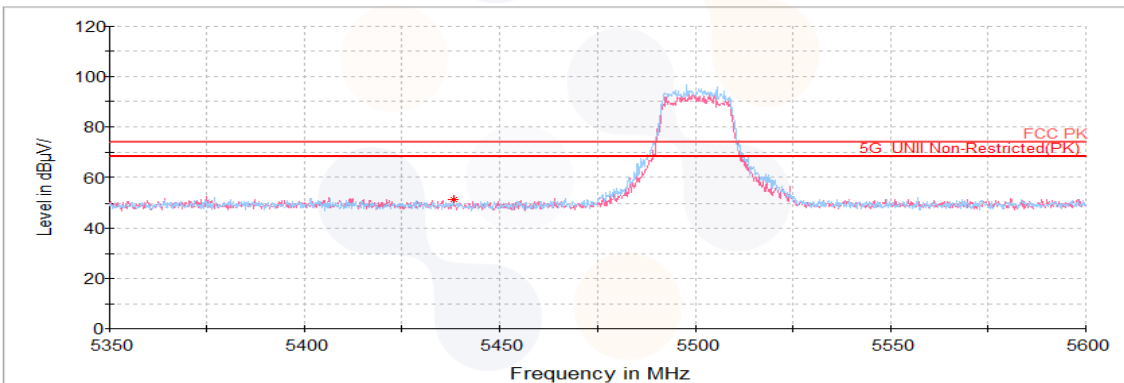
802.11n HT20 UNII-2C ANT2

Lowest Channel (5 500 MHz)

Average data

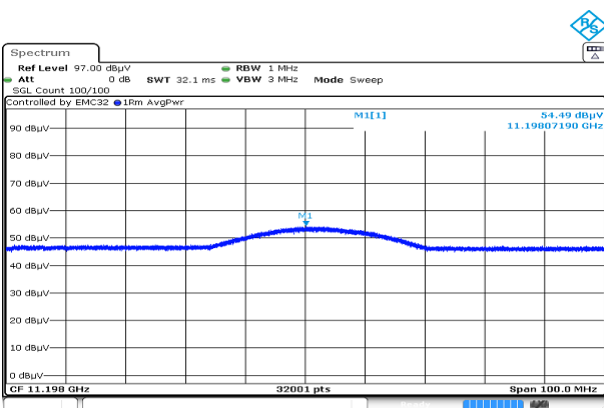


Horizontal/Vertical for Band-edge



Middle Channel (5 600 MHz)

Average data



Blank

KCTL Inc.

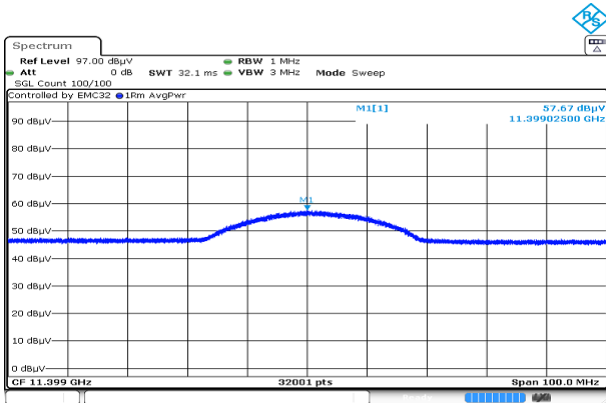
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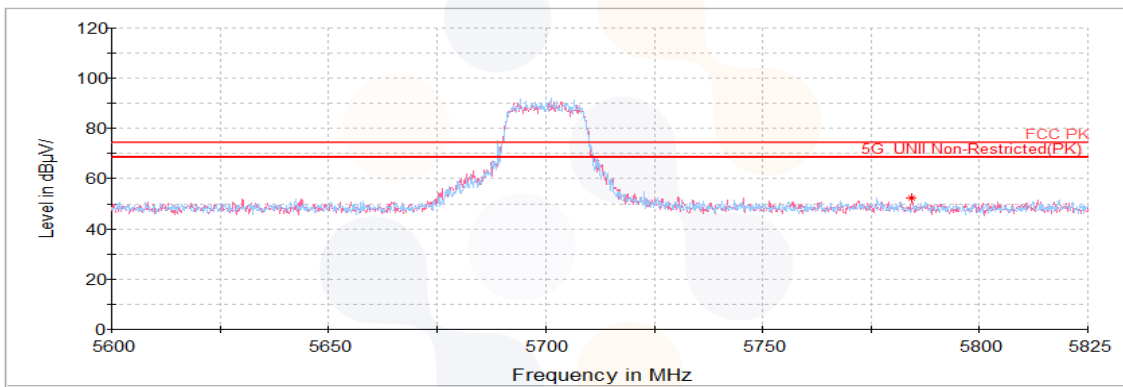
Highest Channel (5 700 MHz)

Average data



Blank

Horizontal/Vertical for Band-edge



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**802.11n HT20 UNII-2C 2TX MIMO****Lowest Channel (5 500 MHz)**

Frequency (MHz)	Pol. (V/H)	Reading (dB(μ V))	Ant. Factor (dB)	Amp.+Cable (dB)	DCF (dB)	Result (dB(μ N/m))	Limit (dB(μ N/m))	Margin (dB)
Peak data								
5 459.87 ¹⁾	V	41.86	34.52	-24.41	-	51.97	74.00	22.03
11 001.40 ¹⁾	H	63.85	37.70	-48.10	-	53.45	74.00	20.55
16 518.30	V	52.46	42.63	-44.59	-	50.50	68.20	17.70
Average Data								
5 459.87 ¹⁾	V	34.62	34.52	-24.41	0.23	44.96	54.00	9.04
11 001.40 ¹⁾	H	56.85	37.70	-48.10	0.23	46.68	54.00	7.32

Middle Channel (5 600 MHz)

Frequency (MHz)	Pol. (V/H)	Reading (dB(μ V))	Ant. Factor (dB)	Amp.+Cable (dB)	DCF (dB)	Result (dB(μ N/m))	Limit (dB(μ N/m))	Margin (dB)
Peak data								
11 200.27 ¹⁾	H	60.77	37.86	-48.07	-	50.56	74.00	23.44
16 848.20	V	53.16	43.16	-44.61	-	51.71	68.20	16.49
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

Highest Channel (5 700 MHz)

Frequency (MHz)	Pol. (V/H)	Reading (dB(μ V))	Ant. Factor (dB)	Amp.+Cable (dB)	DCF (dB)	Result (dB(μ N/m))	Limit (dB(μ N/m))	Margin (dB)
Peak data								
5 725.70	H	50.46	34.87	-24.10	-	61.23	68.20	6.97
11 398.69 ¹⁾	H	66.15	38.02	-48.04	-	56.13	74.00	17.87
17 006.33	H	54.48	41.69	-44.62	-	51.55	68.20	16.65
Average Data								
11 398.69 ¹⁾	H	57.50	38.02	-48.04	0.23	47.71	54.00	6.29

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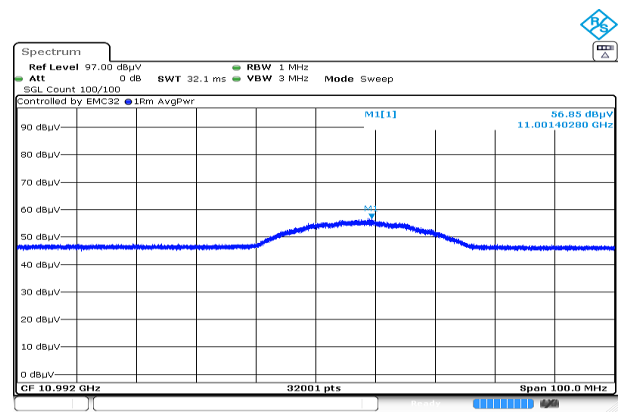
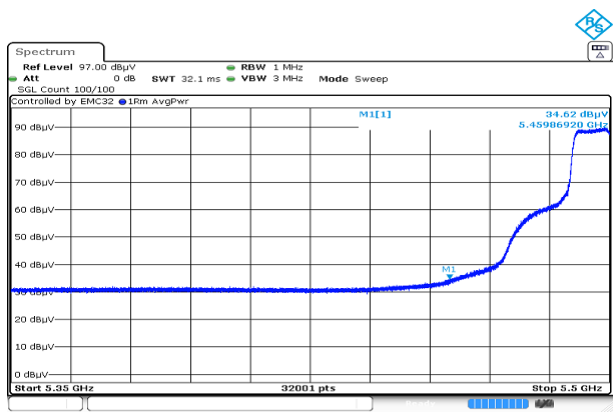
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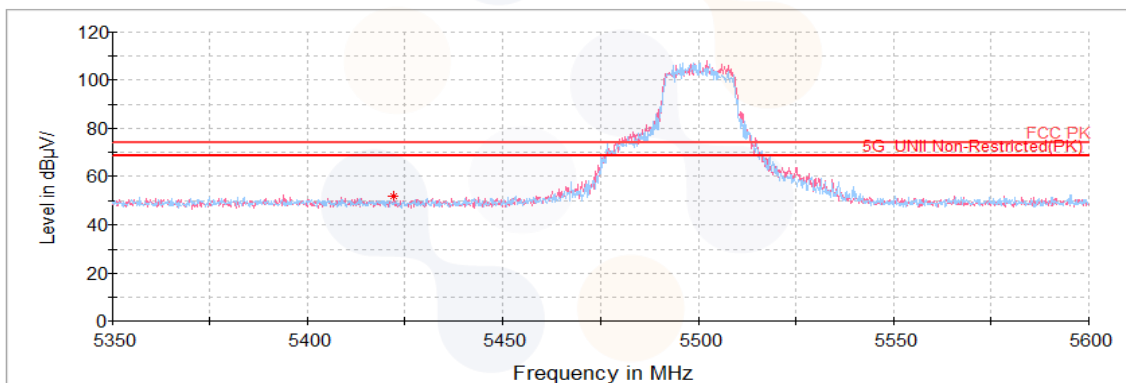
802.11n HT20 UNII-2C 2TX MIMO

Lowest Channel (5 500 MHz)

Average data



Horizontal/Vertical for Band-edge



KCTL Inc.

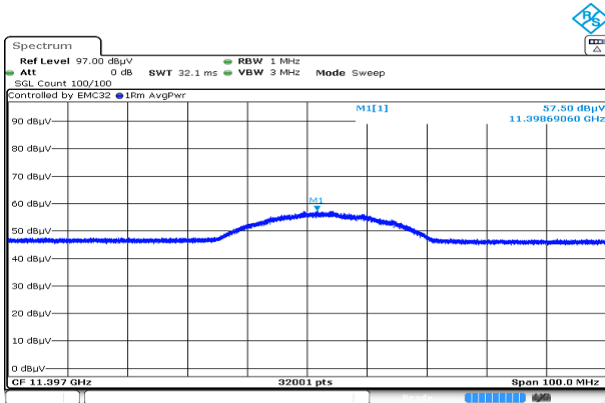
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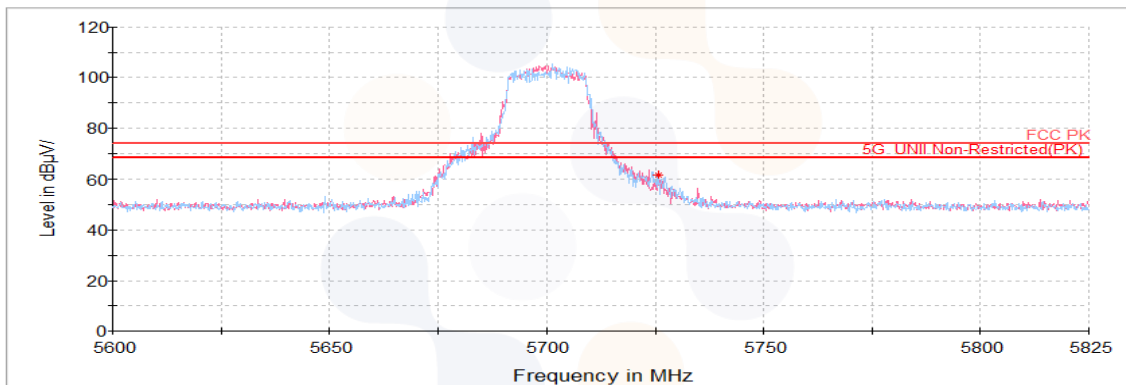
Highest Channel (5 700 MHz)

Average data



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Horizontal/Vertical for Band-edge



802.11n HT40 UNII-2C ANT1

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								
5 459.86 ¹⁾	V	45.66	34.52	-24.41	-	55.77	74.00	18.23
11 001.17 ¹⁾	V	59.46	37.70	-48.10	-	49.06	74.00	24.94
16 603.83	V	53.65	42.77	-44.60	-	51.82	68.20	16.38
Average Data								
5 459.86 ¹⁾	V	39.37	34.52	-24.41	0.24	49.72	54.00	4.28

Middle Channel (5 590 MHz)

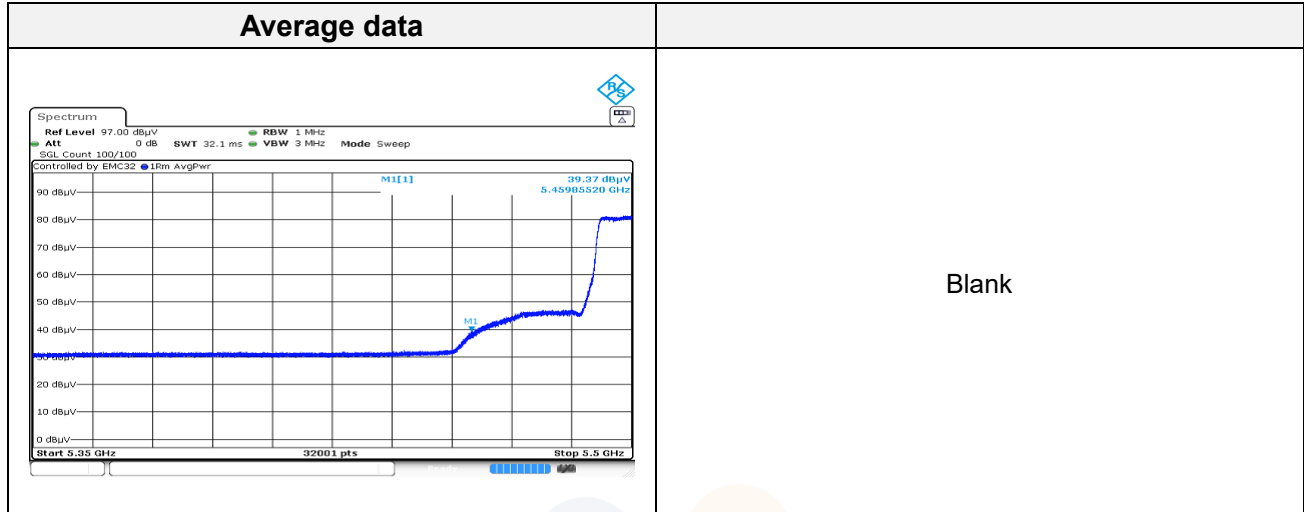
Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
11 174.39 ¹⁾	H	58.27	37.84	-48.08	-	48.03	74.00	25.97
16 685.05	H	53.56	42.90	-44.60	-	51.86	68.20	16.34
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

Highest Channel (5 670 MHz)

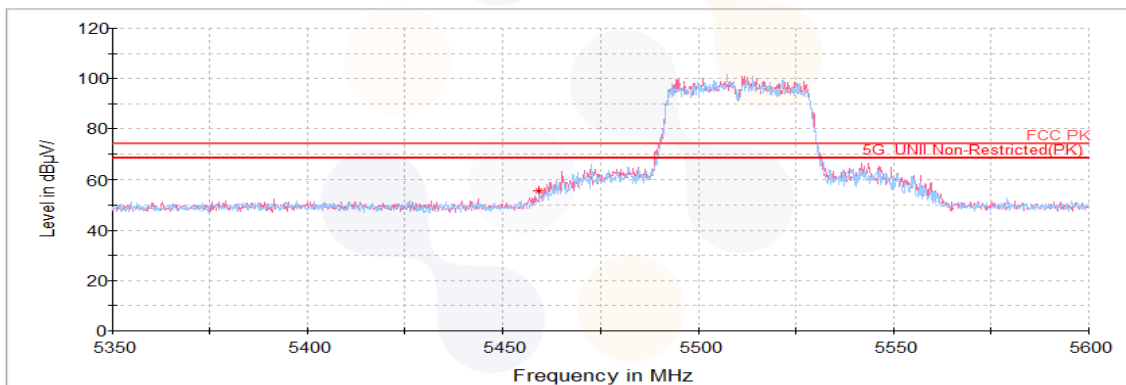
Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
5 741.86	H	42.51	34.89	-24.08	-	53.32	68.20	14.88
11 314.55 ¹⁾	H	58.25	37.95	-48.06	-	48.14	74.00	25.86
16 903.91	H	52.97	43.25	-44.61	-	51.61	68.20	16.59
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

802.11n HT40 UNII-2C ANT1

Lowest Channel (5 510 MHz)

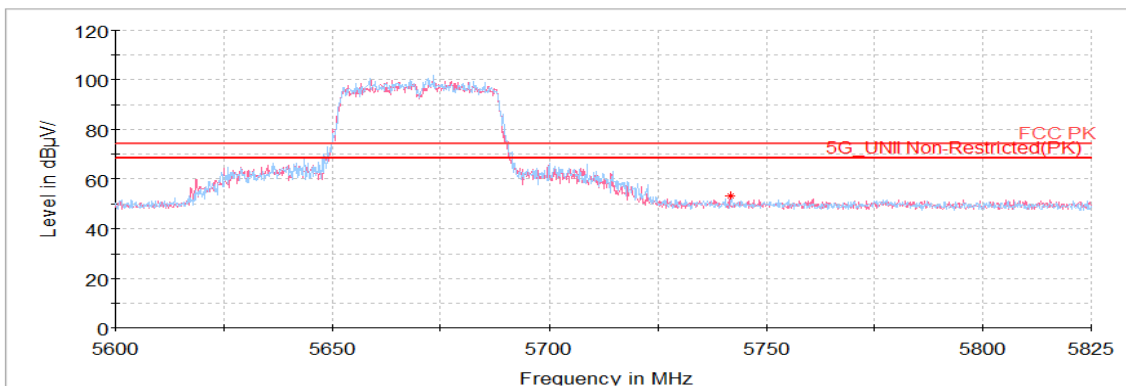


Horizontal/Vertical for Band-edge



Highest Channel (5 670 MHz)

Horizontal/Vertical for Band-edge



802.11n HT40 UNII-2C ANT2

Lowest Channel (5 510 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								
5 459.98 ¹⁾	H	40.52	34.52	-24.41	-	50.63	74.00	23.37
11 015.55 ¹⁾	V	59.23	37.71	-48.10	-	48.84	74.00	25.16
13 507.45	V	56.41	38.70	-46.01	-	49.10	68.20	19.10
16 485.95	V	53.00	43.06	-44.59	-	51.47	68.20	16.73
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

Middle Channel (5 590 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								
11 190.56 ¹⁾	V	58.79	37.85	-48.07	-	48.57	74.00	25.43
16 796.45	V	53.05	43.07	-44.61	-	51.51	68.20	16.69
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

Highest Channel (5 670 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								
5 761.11	V	41.52	34.91	-24.05	-	52.38	68.20	15.82
11 354.80 ¹⁾	V	60.82	37.98	-48.05	-	50.75	74.00	23.25
17 064.55	V	52.78	41.58	-44.62	-	49.74	68.20	18.46
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

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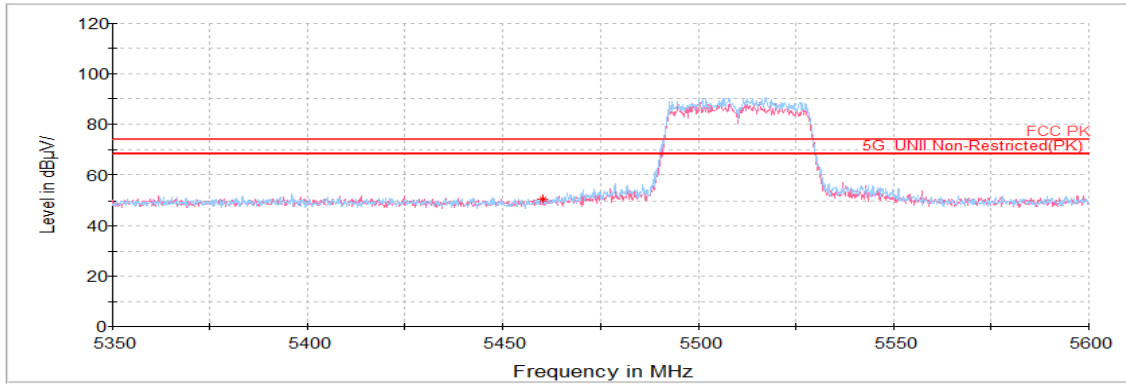
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802.11n HT40 UNII-2C ANT2

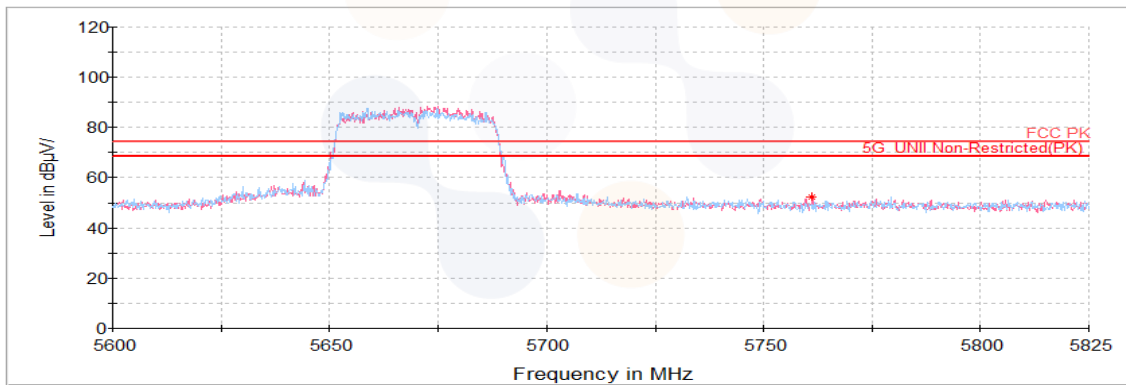
Lowest Channel (5 510 MHz)

Horizontal/Vertical for Band-edge



Highest Channel (5 670 MHz)

Horizontal/Vertical for Band-edge



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**802.11n HT40 UNII-2C 2TX MIMO****Lowest Channel (5 510 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								
5 459.67 ¹⁾	V	49.12	34.52	-24.41	-	59.23	74.00	14.77
11 027.41 ¹⁾	V	58.25	37.72	-48.10	-	47.87	74.00	26.13
16 543.45	H	53.20	42.67	-44.59	-	51.28	68.20	16.92
Average Data								
5 459.67 ¹⁾	V	40.60	34.52	-24.41	0.43	51.14	54.00	2.86

Middle Channel (5 590 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								
11 181.58 ¹⁾	H	58.85	37.85	-48.08	-	48.62	74.00	25.38
16 707.33	V	51.93	42.93	-44.60	-	50.26	68.20	17.94
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

Highest Channel (5 670 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								
5 725.02	V	45.15	34.87	-24.10	-	55.92	68.20	12.28
11 341.21 ¹⁾	H	61.81	37.97	-48.05	-	51.73	74.00	22.27
17 097.97	V	53.62	41.52	-44.63	-	50.51	68.20	17.69
Average Data								
11 341.21 ¹⁾	H	53.89	37.97	-48.05	0.43	44.24	54.00	9.76

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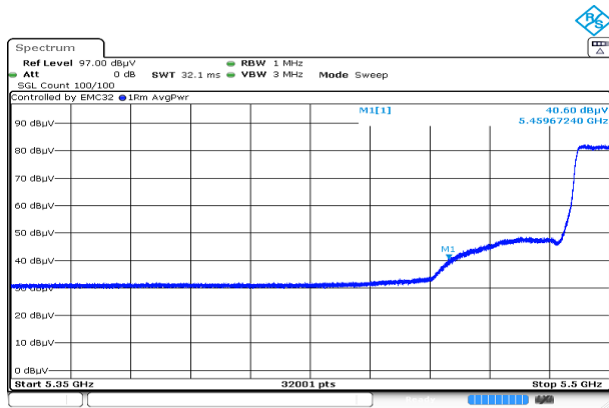
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802.11n HT40 UNII-2C 2TX MIMO

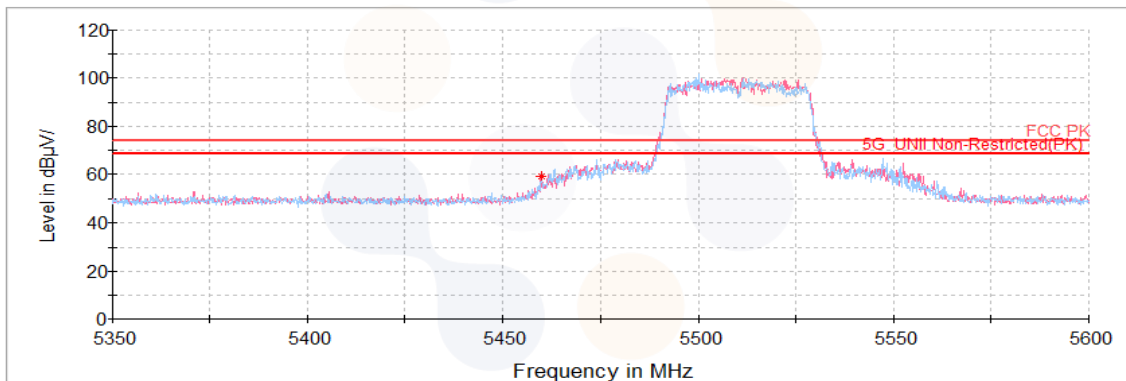
Lowest Channel (5 510 MHz)

Average data



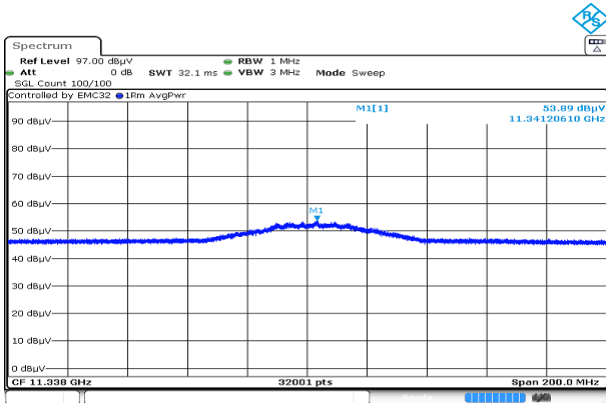
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Horizontal/Vertical for Band-edge



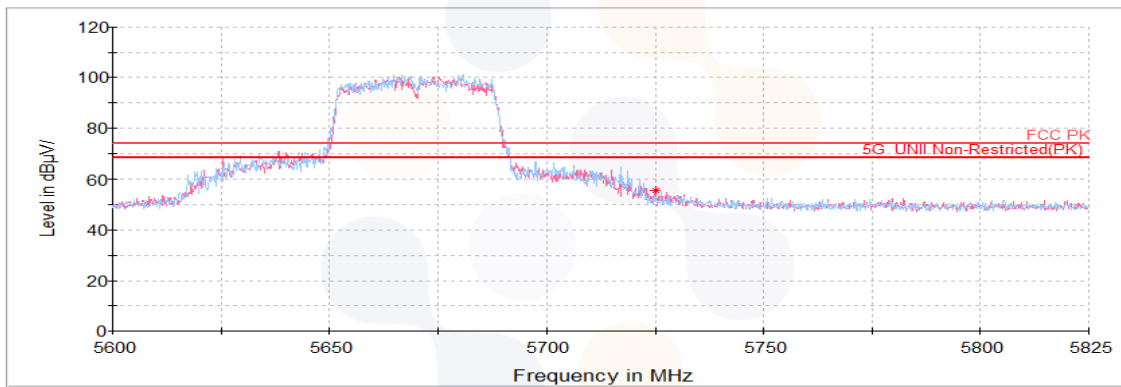
Highest Channel (5 670 MHz)

Average data



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Horizontal/Vertical for Band-edge



802.11ac VHT20 UNII-2C ANT1

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⁾	V	42.72	34.52	-24.41	-	52.83	74.00	21.17
11 000.09 ¹⁾	V	60.68	37.70	-48.10	-	50.28	74.00	23.72
16 436.36	V	52.63	42.93	-44.60	-	50.96	68.20	17.24
Average Data								
5 459.99 ¹⁾	V	34.66	34.52	-24.41	0.12	44.89	54.00	9.11

Middle Channel (5 600 MHz)

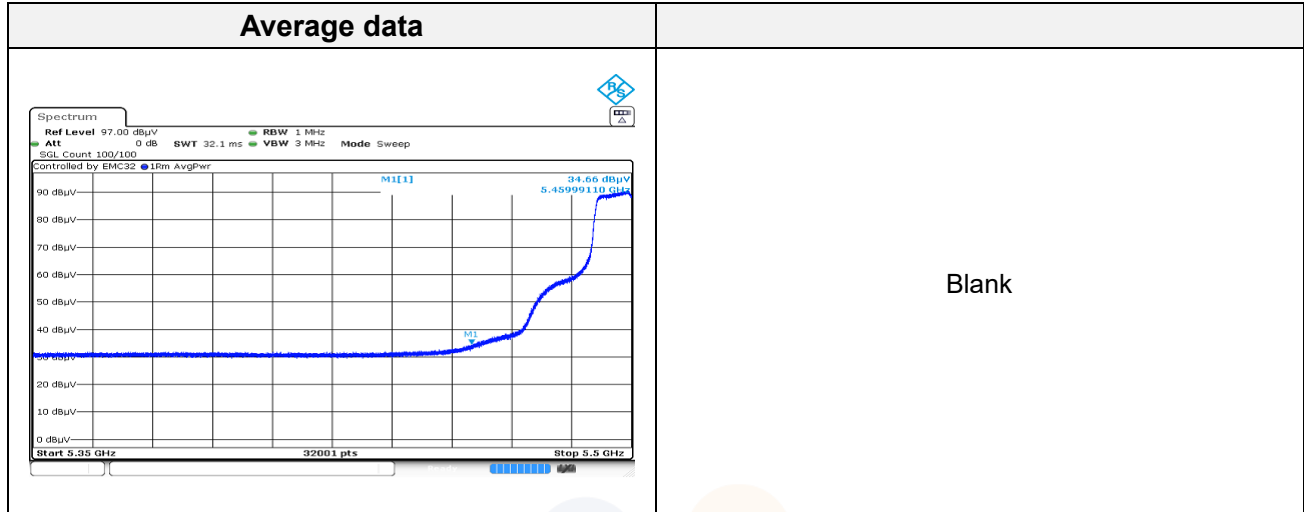
Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
11 192.72 ¹⁾	H	59.26	37.85	-48.07	-	49.04	74.00	24.96
16 839.94	H	53.74	43.14	-44.61	-	52.27	68.20	15.93
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

Highest Channel (5 700 MHz)

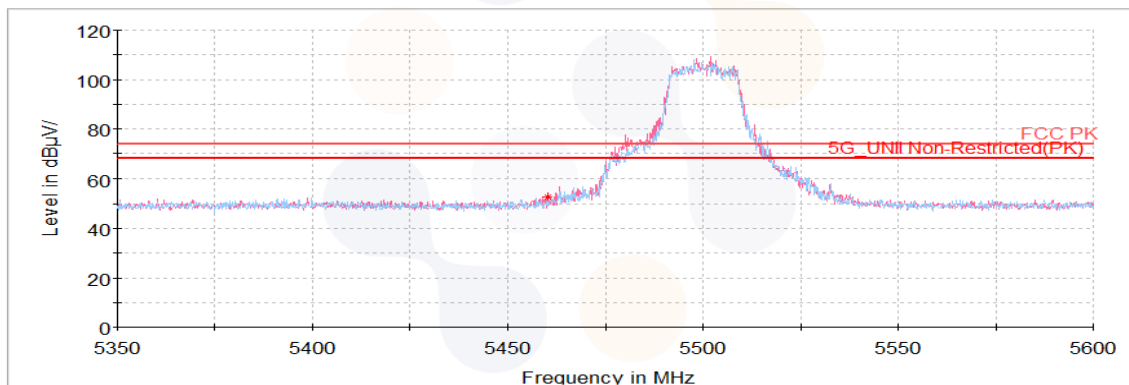
Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
5 725.36	V	48.41	34.87	-24.10	-	59.18	68.20	9.02
11 383.91 ¹⁾	H	58.55	38.01	-48.05	-	48.51	74.00	25.49
12 297.08 ¹⁾	V	57.46	39.38	-47.13	-	49.71	74.00	24.29
17 000.22	V	55.48	41.70	-44.62	-	52.56	68.20	15.64
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

802.11ac VHT20 UNII-2C ANT1

Lowest Channel (5 500 MHz)

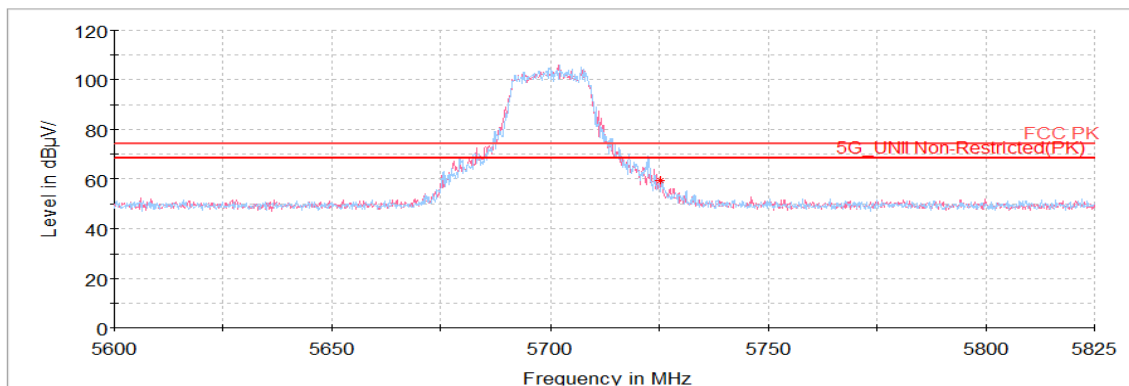


Horizontal/Vertical for Band-edge



Highest Channel (5 700 MHz)

Horizontal/Vertical for Band-edge



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**802.11ac VHT20 UNII-2C ANT2****Lowest Channel (5 500 MHz)**

Frequency (MHz)	Pol. (V/H)	Reading (dB(μ V))	Ant. Factor (dB)	Amp.+Cable (dB)	DCF (dB)	Result (dB(μ V/m))	Limit (dB(μ V/m))	Margin (dB)
Peak data								
5 371.25 ¹⁾	H	42.04	34.34	-24.53	-	51.85	74.00	22.15
10 998.73 ¹⁾	H	61.41	37.70	-48.10	-	51.01	74.00	22.99
16 616.77	V	53.05	42.79	-44.60	-	51.24	68.20	16.96
Average Data								
5 371.25 ¹⁾	H	31.83	34.34	-24.53	0.12	41.76	54.00	12.24
10 998.73 ¹⁾	H	54.94	37.70	-48.10	0.12	44.66	54.00	9.34

Middle Channel (5 600 MHz)

Frequency (MHz)	Pol. (V/H)	Reading (dB(μ V))	Ant. Factor (dB)	Amp.+Cable (dB)	DCF (dB)	Result (dB(μ V/m))	Limit (dB(μ V/m))	Margin (dB)
Peak data								
11 201.69 ¹⁾	H	62.10	37.86	-48.07	-	51.89	74.00	22.11
16 820.89	V	53.26	43.11	-44.61	-	51.76	68.20	16.44
Average Data								
11 201.69 ¹⁾	H	54.79	37.86	-48.07	0.12	44.70	74.00	29.30

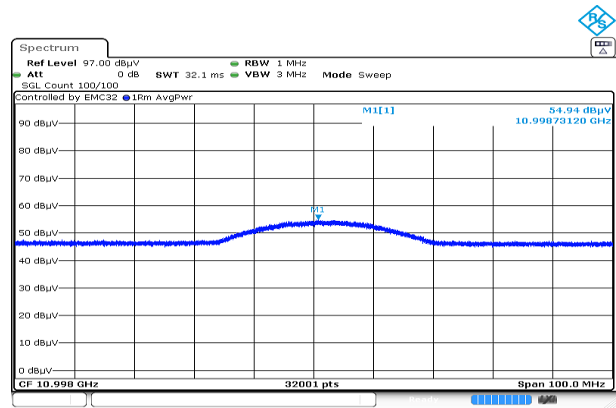
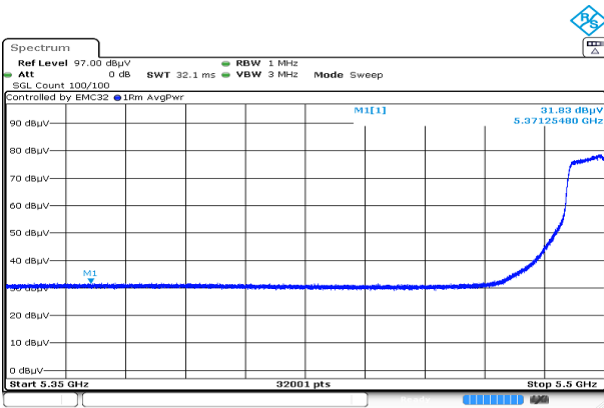
Highest Channel (5 700 MHz)

Frequency (MHz)	Pol. (V/H)	Reading (dB(μ V))	Ant. Factor (dB)	Amp.+Cable (dB)	DCF (dB)	Result (dB(μ V/m))	Limit (dB(μ V/m))	Margin (dB)
Peak data								
5 816.80	V	42.07	34.98	-23.89	-	53.16	68.20	15.04
11 400.62 ¹⁾	H	64.52	38.02	-48.04	-	54.50	74.00	19.50
17 105.52	V	52.98	41.51	-44.63	-	49.86	68.20	18.34
Average Data								
11 400.62 ¹⁾	H	57.49	38.02	-48.04	0.12	47.59	54.00	6.41

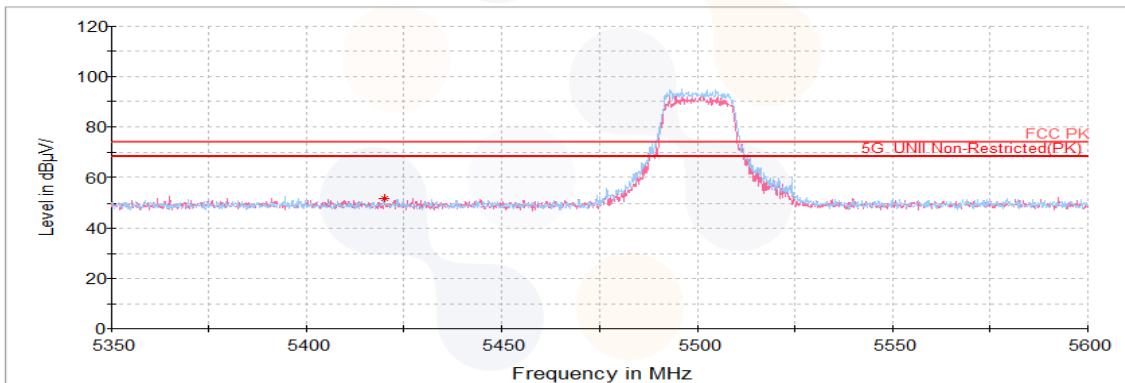
802.11ac VHT20 UNII-2C ANT2

Lowest Channel (5 500 MHz)

Average data

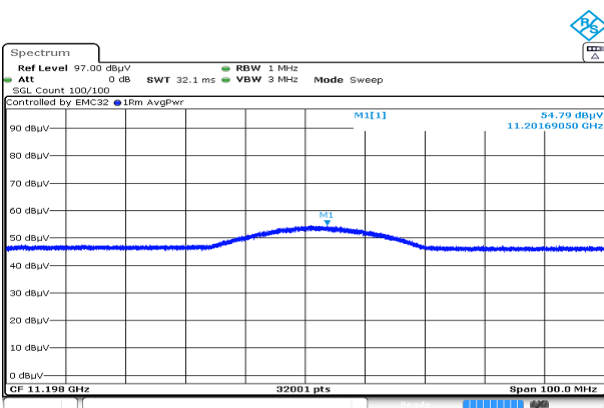


Horizontal/Vertical for Band-edge



Middle Channel (5 600 MHz)

Average data



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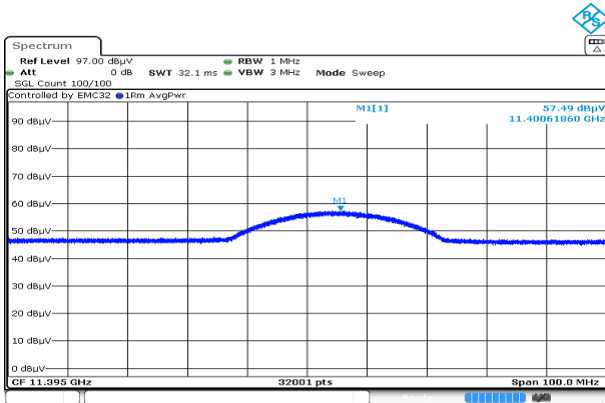
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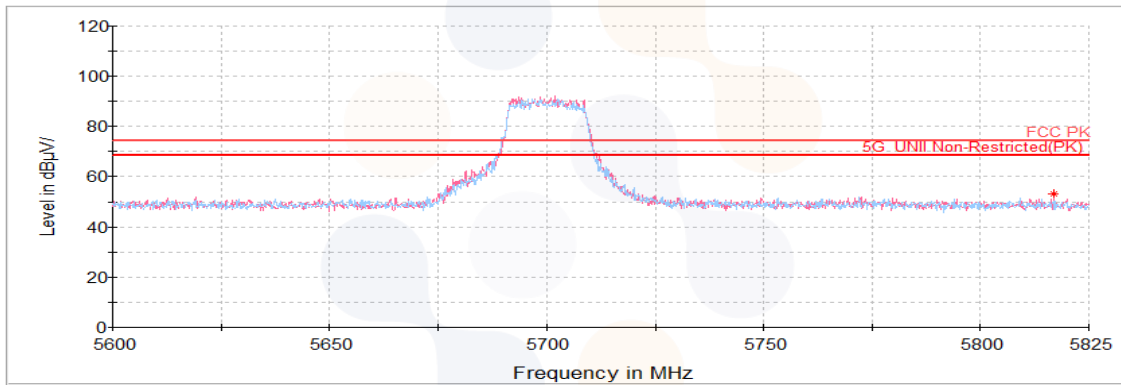
Highest Channel (5 700 MHz)

Average data



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Horizontal/Vertical for Band-edge



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**802.11ac VHT20 UNII-2C 2TX MIMO****Lowest Channel (5 500 MHz)**

Frequency (MHz)	Pol. (V/H)	Reading (dB(μ V))	Ant. Factor (dB)	Amp.+Cable (dB)	DCF (dB)	Result (dB(μ N/m))	Limit (dB(μ N/m))	Margin (dB)
Peak data								
5 459.89 ¹⁾	V	43.10	34.52	-24.41	-	53.21	74.00	20.79
11 001.29 ¹⁾	H	63.67	37.70	-48.10	-	53.27	74.00	20.73
16 503.20	V	53.72	42.61	-44.59	-	51.74	68.20	16.46
Average Data								
5 459.89 ¹⁾	V	34.85	34.52	-24.41	0.22	45.18	54.00	8.82
11 001.29 ¹⁾	H	58.87	37.70	-48.10	0.22	48.69	54.00	5.31

Middle Channel (5 600 MHz)

Frequency (MHz)	Pol. (V/H)	Reading (dB(μ V))	Ant. Factor (dB)	Amp.+Cable (dB)	DCF (dB)	Result (dB(μ N/m))	Limit (dB(μ N/m))	Margin (dB)
Peak data								
11 201.24 ¹⁾	H	65.23	37.86	-48.07	-	55.02	74.00	18.98
16 800.77	V	55.08	43.08	-44.61	-	53.55	68.20	14.65
Average Data								
11 201.24 ¹⁾	H	56.98	37.86	-48.07	0.22	46.99	54.00	7.01

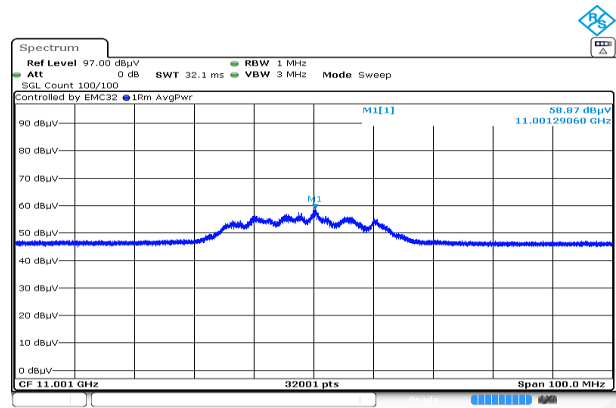
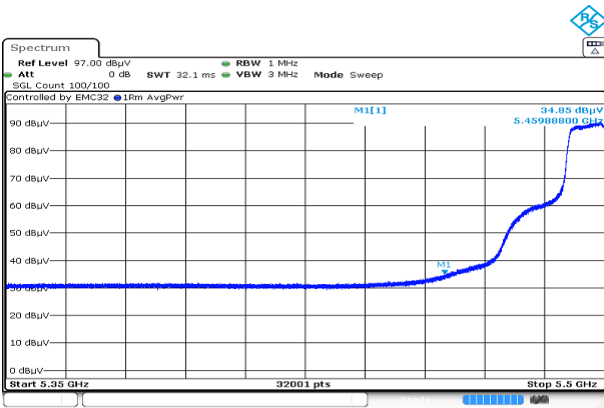
Highest Channel (5 700 MHz)

Frequency (MHz)	Pol. (V/H)	Reading (dB(μ V))	Ant. Factor (dB)	Amp.+Cable (dB)	DCF (dB)	Result (dB(μ N/m))	Limit (dB(μ N/m))	Margin (dB)
Peak data								
5 725.19	H	48.07	34.87	-24.10	-	58.84	68.20	9.36
11 401.22 ¹⁾	H	64.52	38.02	-48.04	-	54.50	74.00	19.50
17 042.63	V	54.85	41.62	-44.62	-	51.85	68.20	16.35
Average Data								
11 401.22 ¹⁾	H	60.21	38.02	-48.04	0.22	50.41	54.00	3.59

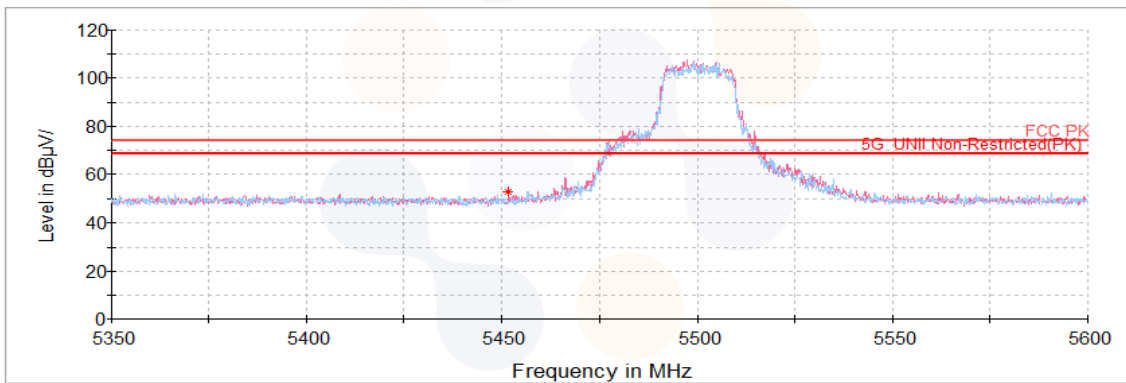
802.11ac VHT20 UNII-2C 2TX MIMO

Lowest Channel (5 500 MHz)

Average data

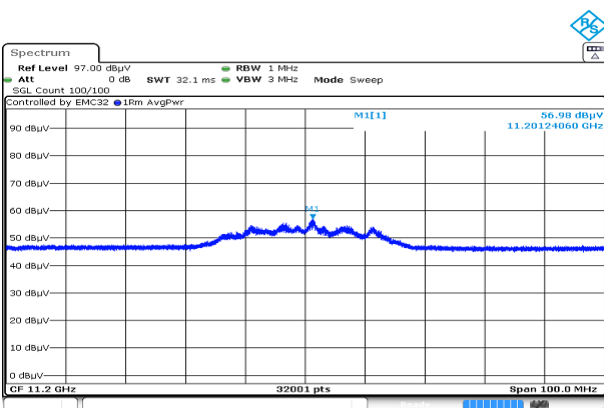


Horizontal/Vertical for Band-edge



Middle Channel (5 600 MHz)

Average data



Blank

KCTL Inc.

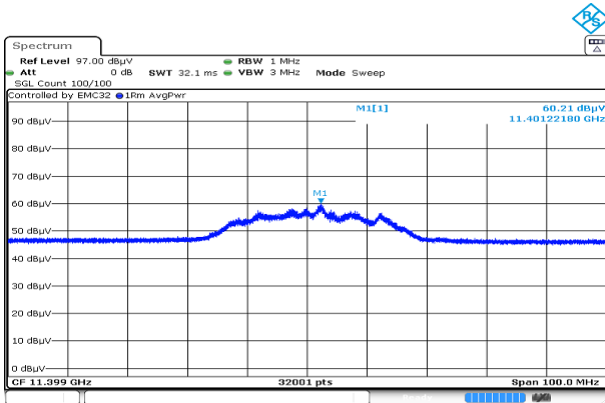
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
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www.kctl.co.kr

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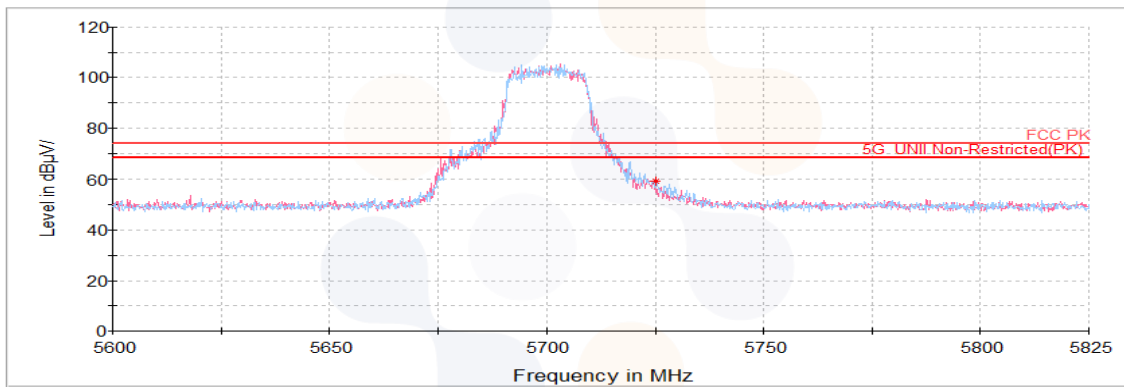
Highest Channel (5 700 MHz)

Average data



Blank

Horizontal/Vertical for Band-edge



802.11ac VHT40 UNII-2C ANT1

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($\mu V/m$))	(dB($\mu V/m$))	(dB)
Peak data								
5 459.74 ¹⁾	V	51.73	34.52	-24.41	-	61.84	74.00	12.16
11 082.03 ¹⁾	V	57.27	37.77	-48.09	-	46.95	74.00	27.05
16 299.08	V	53.11	42.58	-44.63	-	51.06	68.20	17.14
Average Data								
5 459.74 ¹⁾	V	39.15	34.52	-24.41	0.23	49.49	54.00	4.51

Middle Channel (5 590 MHz)

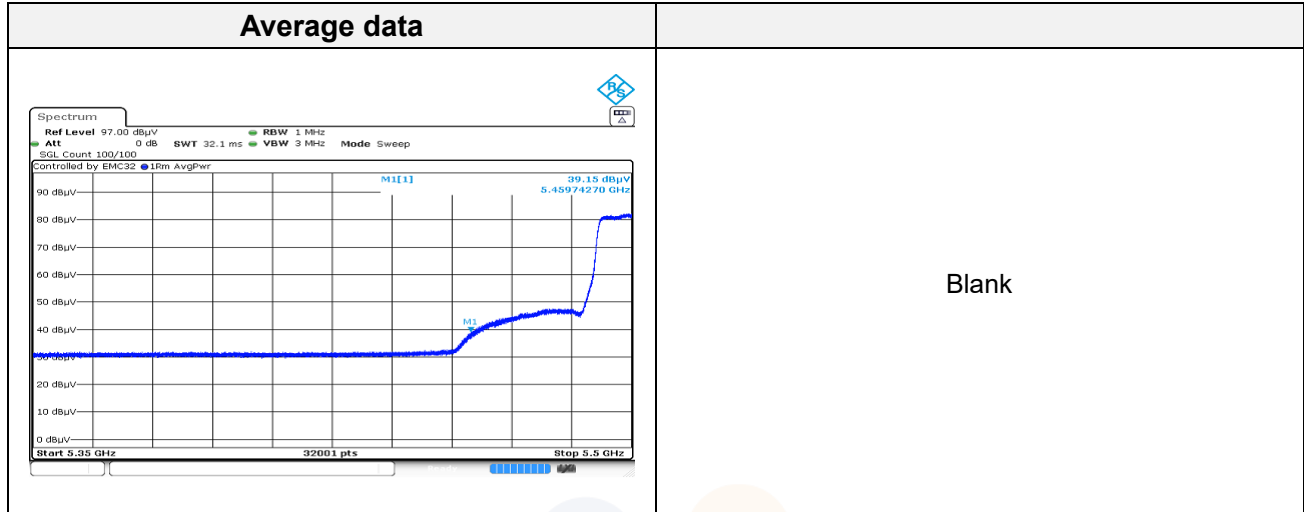
Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB($\mu V/m$))	(dB($\mu V/m$))	(dB)
Peak data								
10 877.19 ¹⁾	V	58.44	37.60	-48.17	-	47.87	74.00	26.13
16 862.94	H	53.51	43.18	-44.61	-	52.08	68.20	16.12
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

Highest Channel (5 670 MHz)

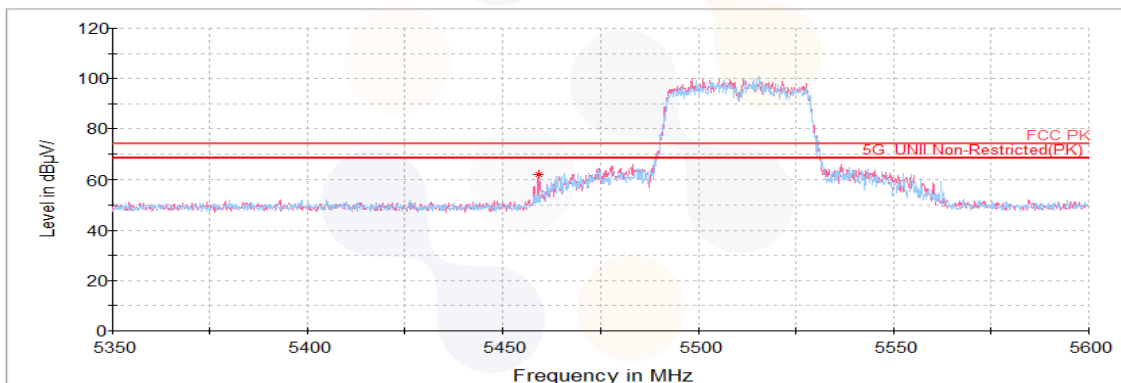
Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB($\mu V/m$))	(dB($\mu V/m$))	(dB)
Peak data								
5 725.53	H	42.83	34.87	-24.10	-	53.60	68.20	14.60
11 352.28 ¹⁾	H	58.67	37.98	-48.05	-	48.60	74.00	25.40
16 959.97	V	52.57	43.34	-44.61	-	51.30	68.20	16.90
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

802.11ac VHT40 UNII-2C ANT1

Lowest Channel (5 510 MHz)

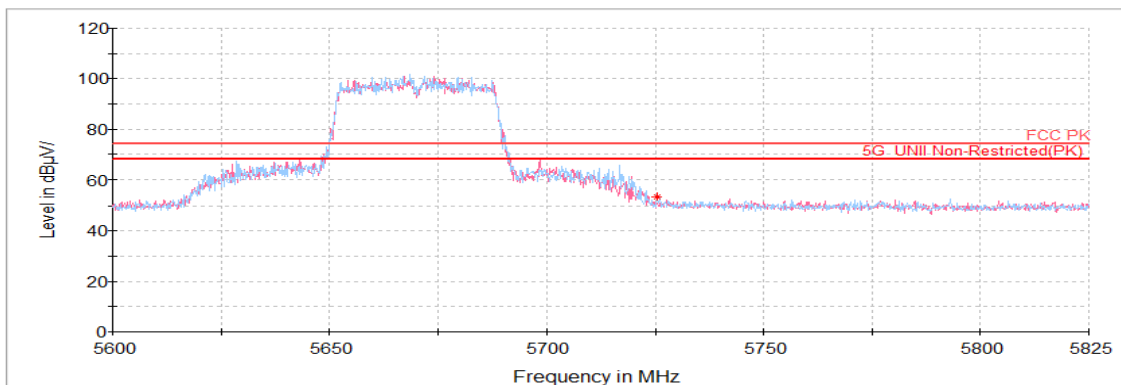


Horizontal/Vertical for Band-edge



Highest Channel (5 670 MHz)

Horizontal/Vertical for Band-edge



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**802.11ac VHT40 UNII-2C ANT2****Lowest Channel (5 510 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								
5 398.63 ¹⁾	H	41.21	34.40	-24.43	-	51.18	74.00	22.82
11 036.39 ¹⁾	H	61.35	37.73	-48.10	-	50.98	74.00	23.02
16 519.38	H	52.23	42.63	-44.59	-	50.27	68.20	17.93
Average Data								
5 398.63 ¹⁾	H	31.86	34.40	-24.43	0.23	42.06	54.00	11.94

Middle Channel (5 590 MHz)

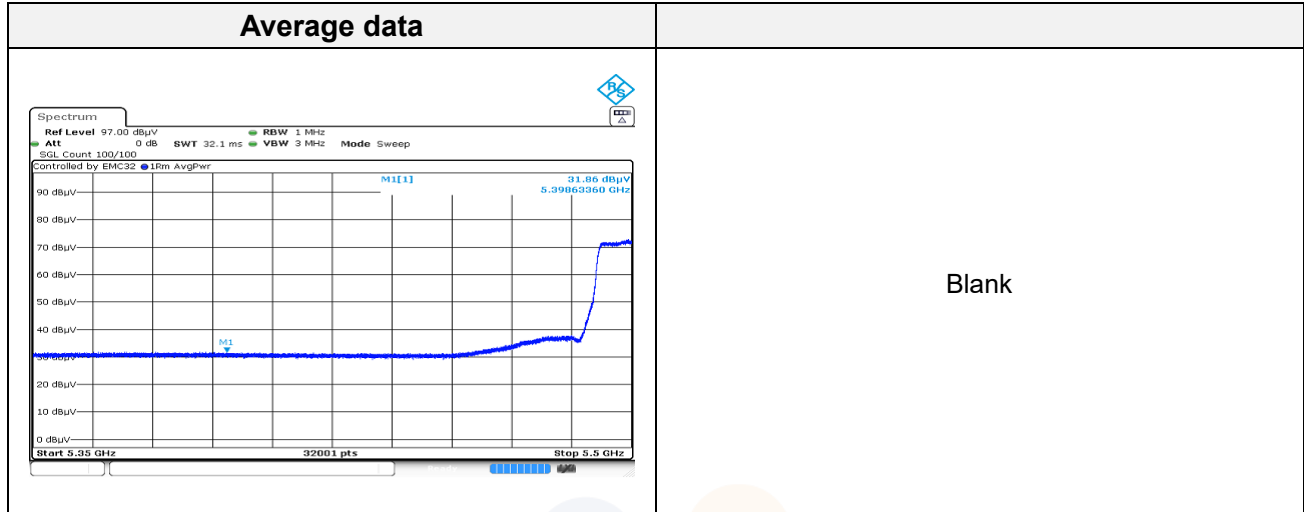
Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μ V))	(dB)	(dB)	(dB)	(dB(μ V/m))	(dB(μ V/m))	(dB)
Peak data								
11 176.55 ¹⁾	H	59.57	37.84	-48.08	-	49.33	74.00	24.67
16 777.41	V	52.34	43.04	-44.60	-	50.78	68.20	17.42
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

Highest Channel (5 670 MHz)

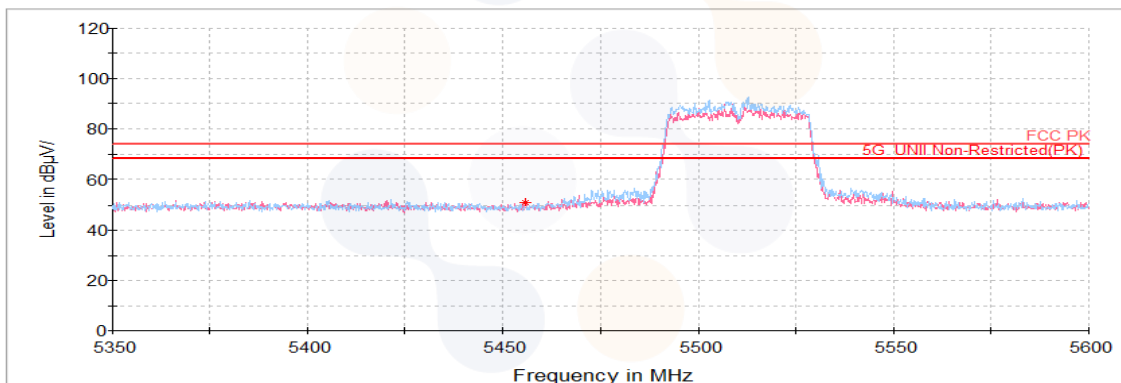
Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μ V))	(dB)	(dB)	(dB)	(dB(μ V/m))	(dB(μ V/m))	(dB)
Peak data								
5 735.16	H	42.84	34.88	-24.09	-	53.63	68.20	14.57
11 341.86 ¹⁾	H	60.50	37.97	-48.05	-	50.42	74.00	23.58
17 025.02	H	53.62	41.65	-44.62	-	50.65	68.20	17.55
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

802.11ac VHT40 UNII-2C ANT2

Lowest Channel (5 510 MHz)



Horizontal/Vertical for Band-edge



Highest Channel (5 670 MHz)

Horizontal/Vertical for Band-edge



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www.kctl.co.kr

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**802.11ac VHT40 UNII-2C 2TX MIMO****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($\mu V/m$))	(dB($\mu V/m$))	(dB)
Peak data								
5 459.90 ¹⁾	V	46.79	34.52	-24.41	-	56.90	74.00	17.10
11 012.67 ¹⁾	H	60.91	37.71	-48.10	-	50.52	74.00	23.48
16 589.81	V	52.93	42.74	-44.59	-	51.08	68.20	17.12
Average Data								
5 459.90 ¹⁾	V	40.25	34.52	-24.41	0.41	50.77	54.00	3.23

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($\mu V/m$))	(dB($\mu V/m$))	(dB)
Peak data								
11 175.47 ¹⁾	H	60.10	37.84	-48.08	-	49.86	74.00	24.14
16 776.33	H	52.57	43.04	-44.60	-	51.01	68.20	17.19
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

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($\mu V/m$))	(dB($\mu V/m$))	(dB)
Peak data								
5 725.02	H	43.89	34.87	-24.10	-	54.66	68.20	13.54
11 341.14 ¹⁾	H	61.40	37.97	-48.05	-	51.32	74.00	22.68
16 986.92	V	52.58	43.38	-44.62	-	51.34	68.20	16.86
Average Data								
11 341.14 ¹⁾	H	55.77	37.97	-48.05	0.41	46.10	54.00	7.90

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www.kctl.co.kr

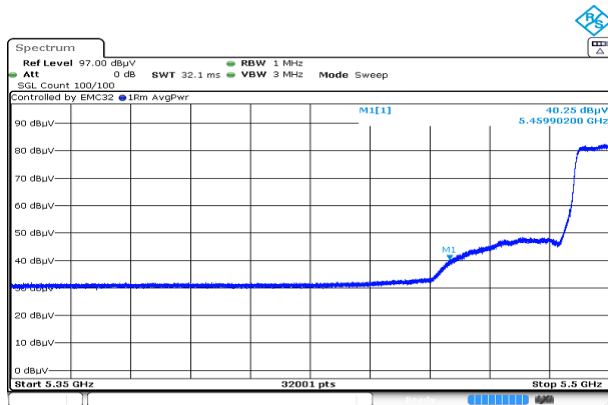
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802.11ac VHT40 UNII-2C 2TX MIMO

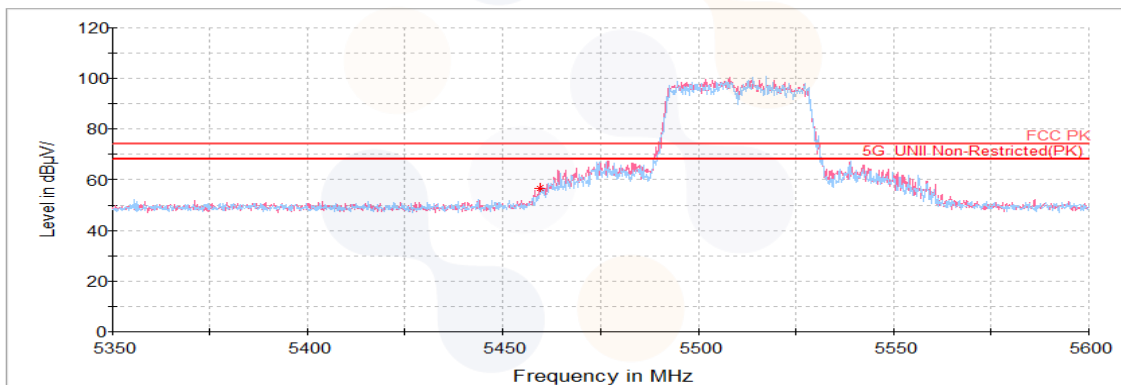
Lowest Channel (5 510 MHz)

Average data



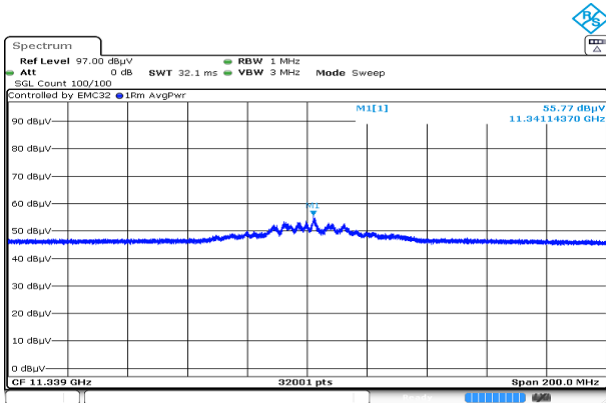
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Horizontal/Vertical for Band-edge



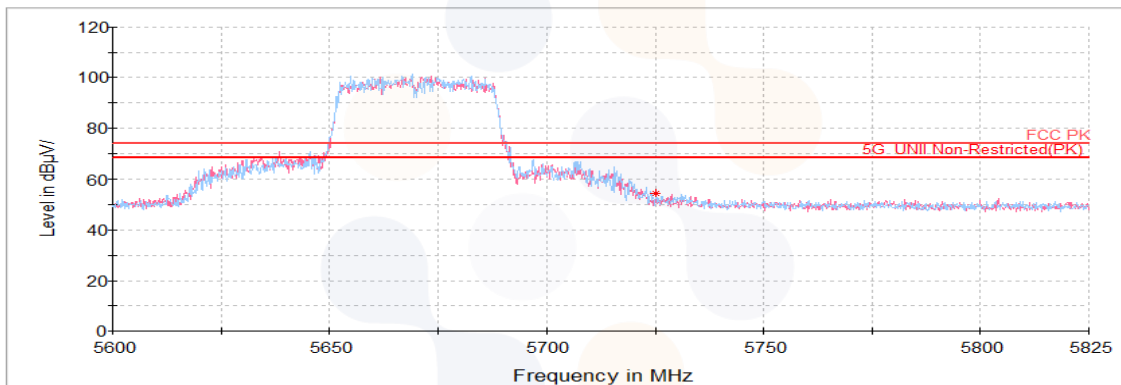
Highest Channel (5 670 MHz)

Average data



Blank

Horizontal/Vertical for Band-edge



802.11ac VHT80 UNII-2C ANT1

Lowest Channel (5 530 MHz)

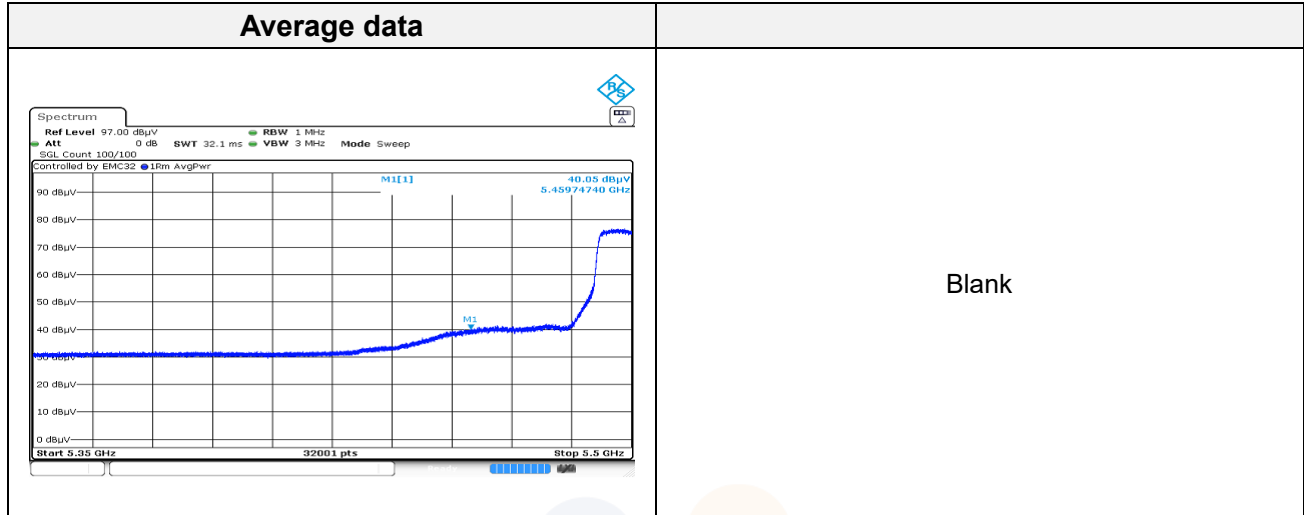
Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB($\mu V/m$))	(dB($\mu V/m$))	(dB)
Peak data								
5 459.75 ¹⁾	V	48.49	34.52	-24.41	-	58.60	74.00	15.40
11 064.78 ¹⁾	V	56.67	37.75	-48.09	-	46.33	74.00	27.67
16 559.27	H	52.17	42.69	-44.59	-	50.27	68.20	17.93
Average Data								
5 459.75 ¹⁾	V	40.05	34.52	-24.41	0.46	50.62	54.00	3.38

Highest Channel (5 610 MHz)

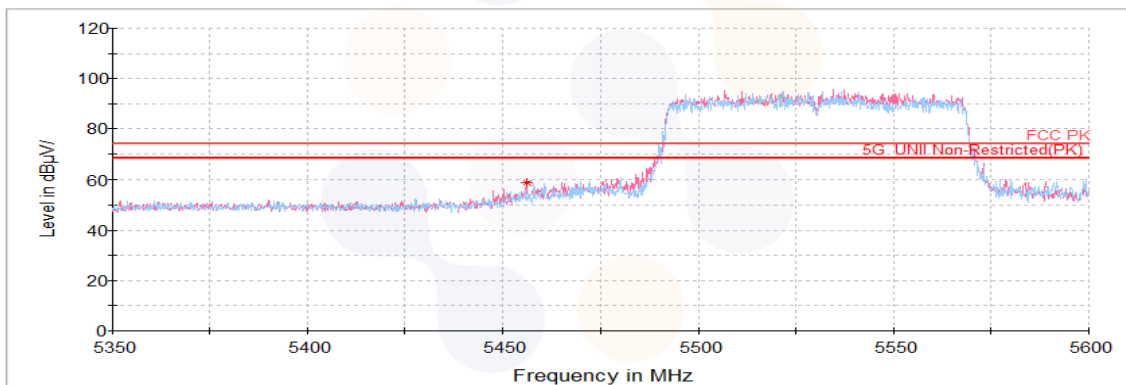
Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB($\mu V/m$))	(dB($\mu V/m$))	(dB)
Peak data								
5 729.31	V	41.05	34.88	-24.10	-	51.83	68.20	16.37
10 006.78	V	58.73	37.00	-48.07	-	47.66	68.20	20.54
11 048.97 ¹⁾	H	58.38	37.74	-48.09	-	48.03	74.00	25.97
11 203.86 ¹⁾	H	57.31	37.86	-48.07	-	47.10	74.00	26.90
16 876.59	H	52.52	43.20	-44.61	-	51.11	68.20	17.09
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

802.11ac VHT80 UNII-2C ANT1

Lowest Channel (5 530 MHz)

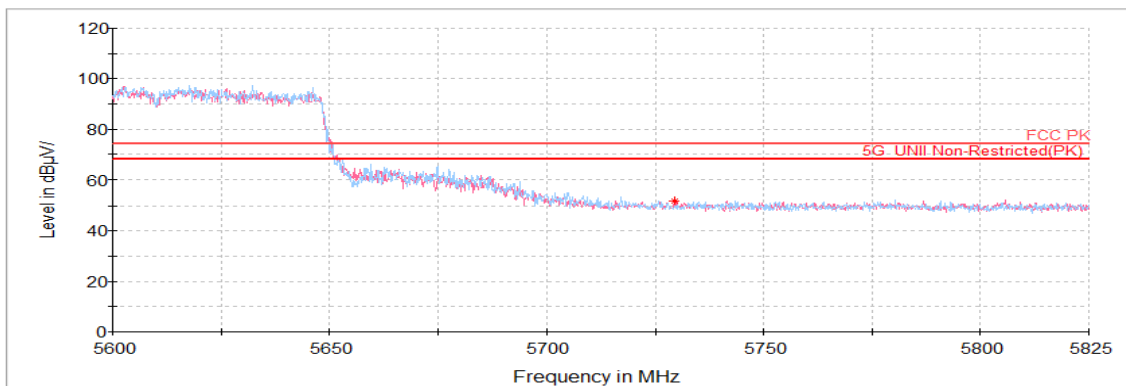


Horizontal/Vertical for Band-edge



Highest Channel (5 610 MHz)

Horizontal/Vertical for Band-edge



802.11ac VHT80 UNII-2C ANT2

Lowest Channel (5 530 MHz)

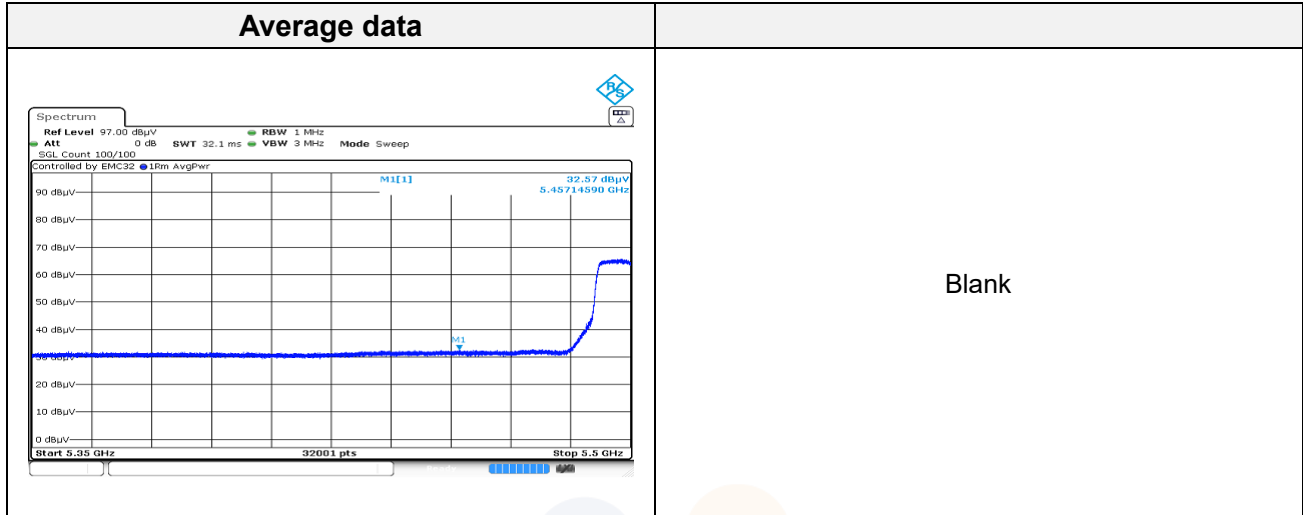
Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB($\mu V/m$))	(dB($\mu V/m$))	(dB)
Peak data								
5 457.15 ¹⁾	H	42.73	34.51	-24.41	-	52.83	74.00	21.17
10 318.36	V	59.15	37.19	-48.26	-	48.08	68.20	20.12
11 054.72 ¹⁾	H	56.63	37.74	-48.09	-	46.28	74.00	27.72
16 271.41	V	53.85	42.51	-44.64	-	51.72	68.20	16.48
16 586.94	V	52.68	42.74	-44.59	-	50.83	68.20	17.37
Average Data								
5 457.15 ¹⁾	H	32.57	34.51	-24.41	0.46	43.13	54.00	10.87

Highest Channel (5 610 MHz)

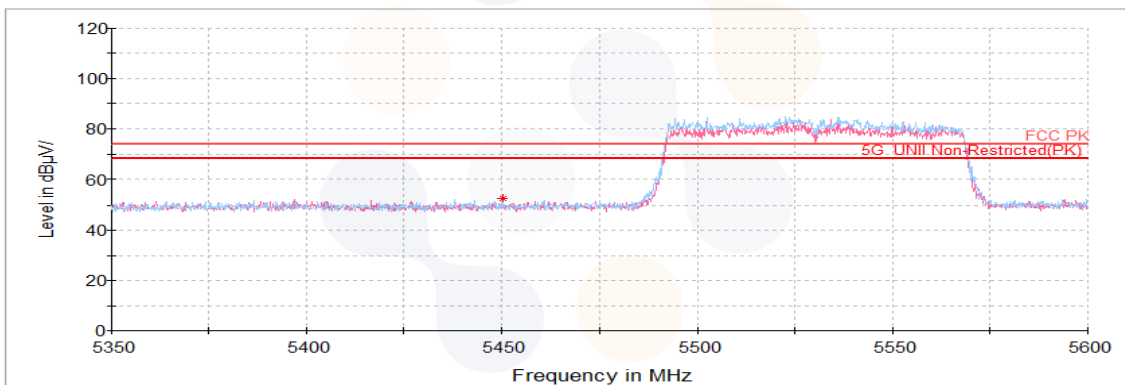
Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB($\mu V/m$))	(dB($\mu V/m$))	(dB)
Peak data								
5 776.06	V	42.34	34.93	-24.03	-	53.24	68.20	14.96
11 233.69 ¹⁾	V	56.96	37.89	-48.07	-	46.78	74.00	27.22
16 841.02	V	53.03	43.15	-44.61	-	51.57	68.20	16.63
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

802.11ac VHT80 UNII-2C ANT2

Lowest Channel (5 530 MHz)

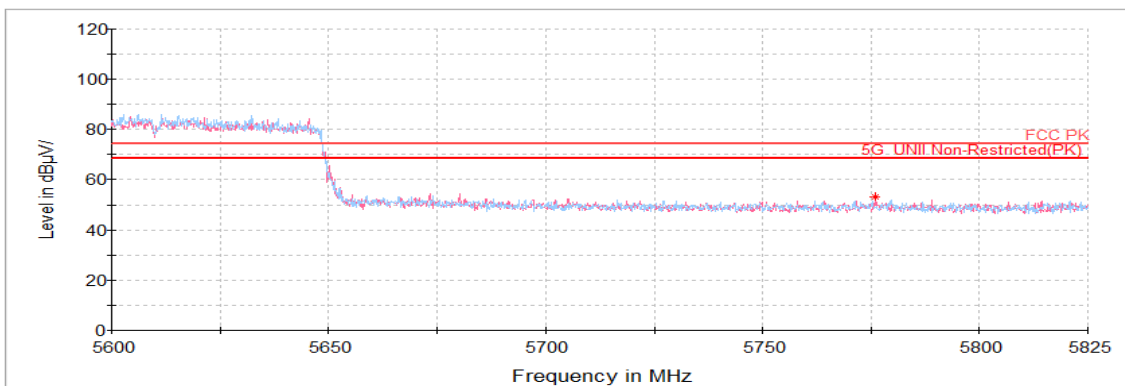


Horizontal/Vertical for Band-edge



Highest Channel (5 610 MHz)

Horizontal/Vertical for Band-edge



802.11ac VHT80 UNII-2C 2TX MIMO

Lowest Channel (5 530 MHz)

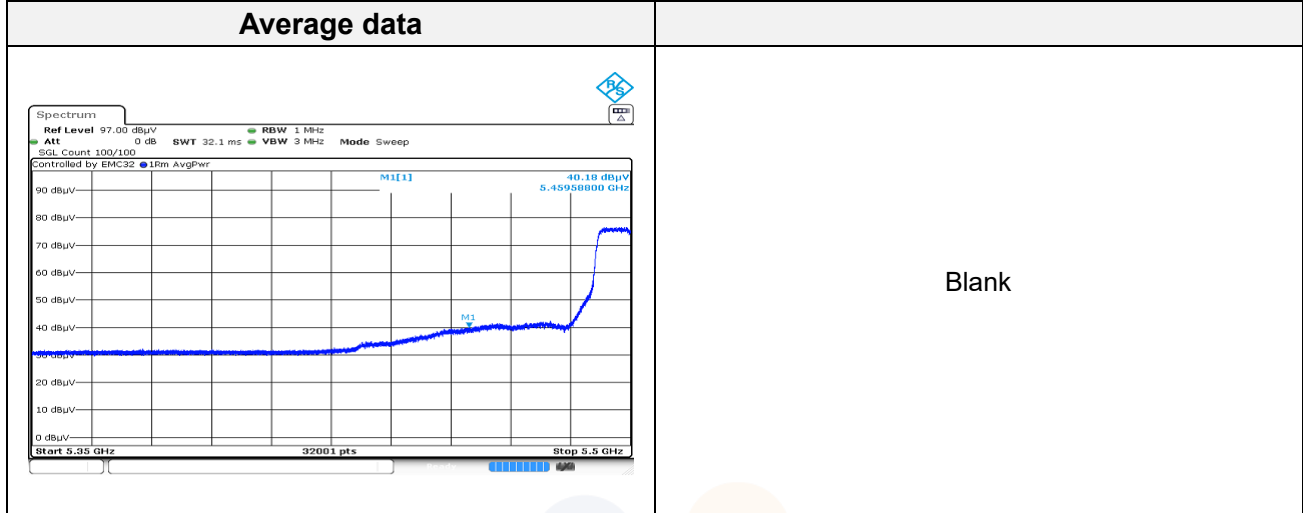
Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB($\mu V/m$))	(dB($\mu V/m$))	(dB)
Peak data								
5 459.59 ¹⁾	V	47.74	34.52	-24.41	-	57.85	74.00	16.15
11 081.31 ¹⁾	H	57.00	37.77	-48.09	-	46.68	74.00	27.32
16 564.66	V	52.18	42.70	-44.59	-	50.29	68.20	17.91
Average Data								
5 459.59 ¹⁾	V	40.18	34.52	-24.41	0.75	51.04	54.00	2.96

Highest Channel (5 610 MHz)

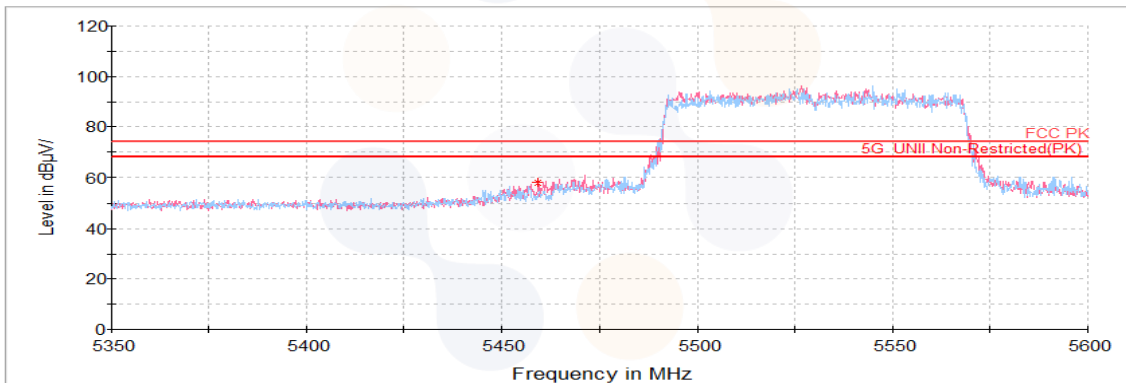
Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB($\mu V/m$))	(dB($\mu V/m$))	(dB)
Peak data								
5 780.02	V	43.27	34.94	-24.02	-	54.19	68.20	14.01
11 369.17 ¹⁾	V	58.79	38.00	-48.05	-	48.74	74.00	25.26
16 665.64	V	53.71	42.87	-44.60	-	51.98	68.20	16.22
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

802.11ac VHT80 UNII-2C 2TX MIMO

Lowest Channel (5 530 MHz)

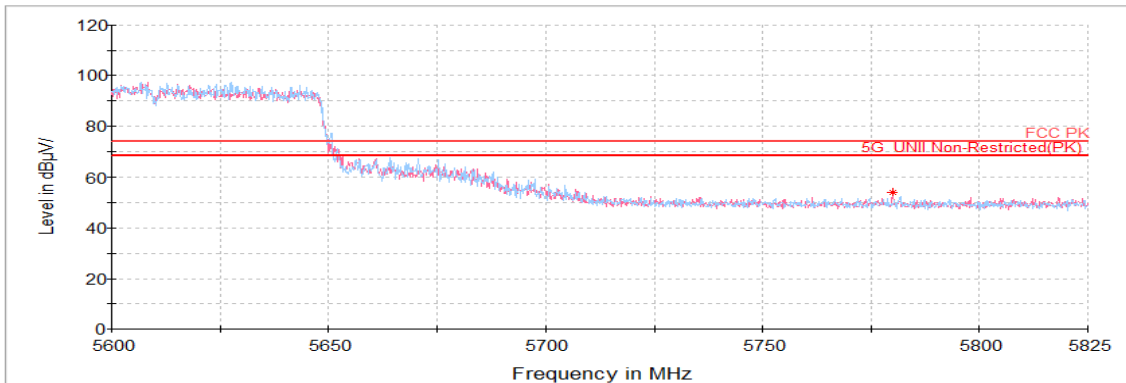


Horizontal/Vertical for Band-edge



Highest Channel (55610MHz)

Horizontal/Vertical for Band-edge

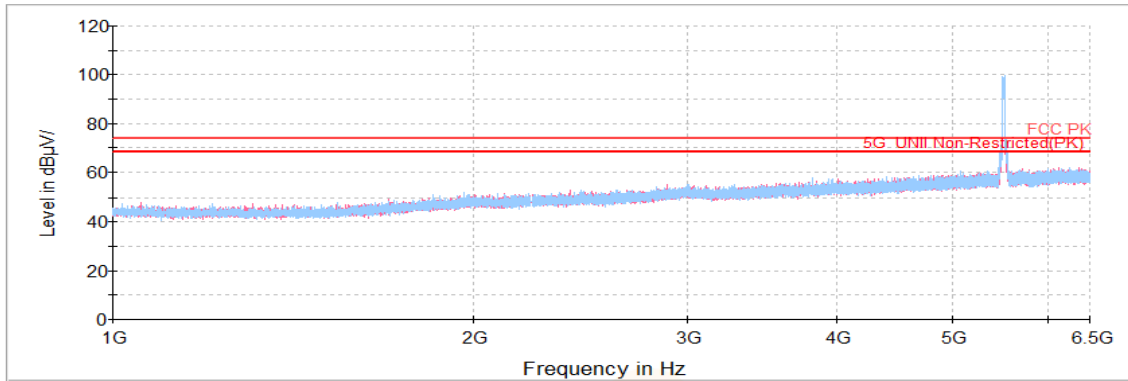


Plot of Harmonics and Spurious Emissions

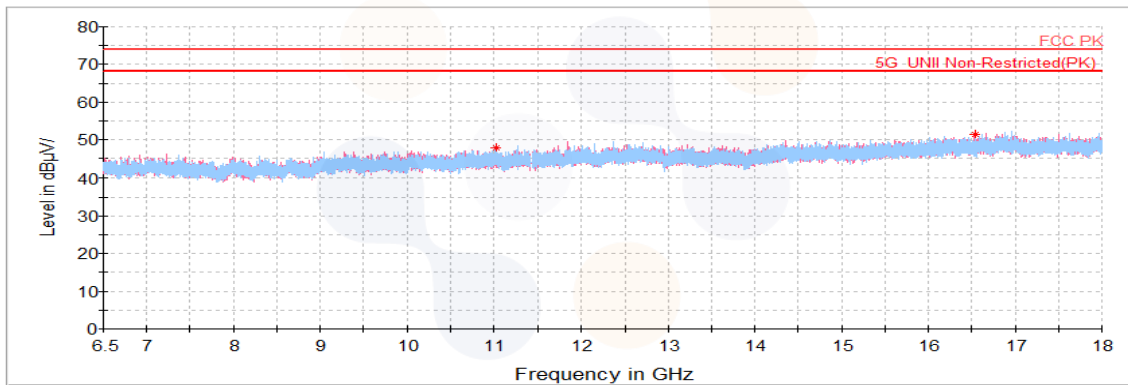
In order to simplify the report, attached plots were only the lowest margin condition

802.11n HT40_UNII-2C_2TX MIMO_Lowest Channel (5 510 MHz)

Horizontal/Vertical for 1 GHz ~ 6.5 GHz



Horizontal/Vertical for 6.5 GHz ~ 18 GHz



Horizontal/Vertical for 18 GHz ~ 40 GHz

