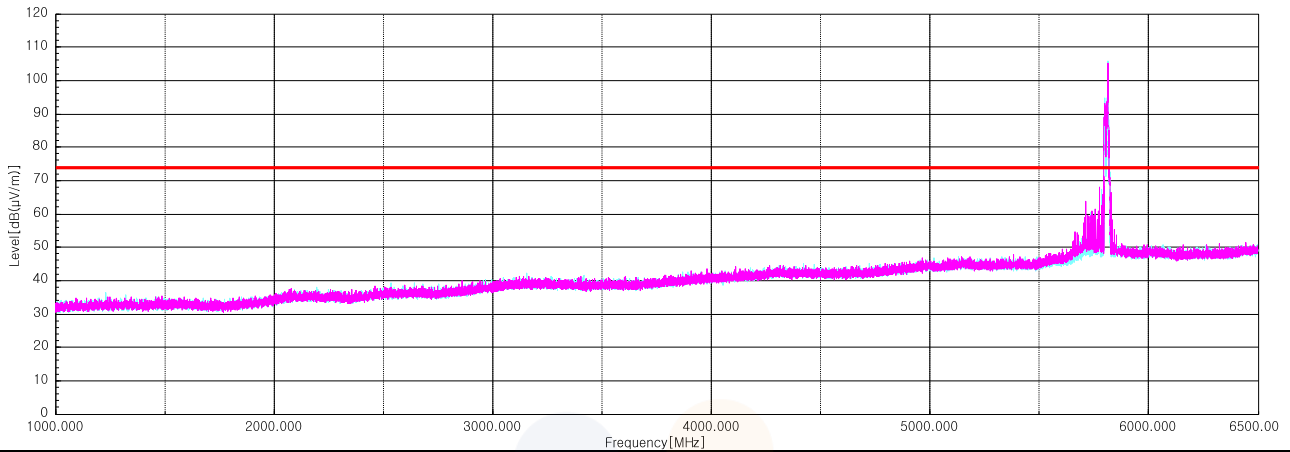


Plot of Harmonics and Spurious Emissions

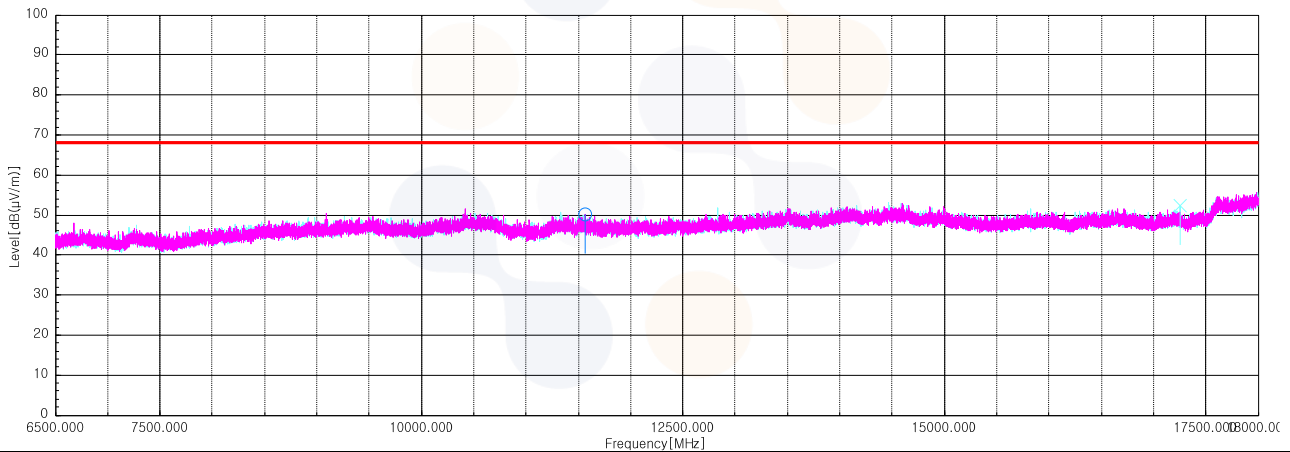
In order to simplify the report, attached plots were only the lowest margin condition

802.11ax_HE80 RU mode (26T / RU offset 36)_Middle Channel (5 775 MHz)

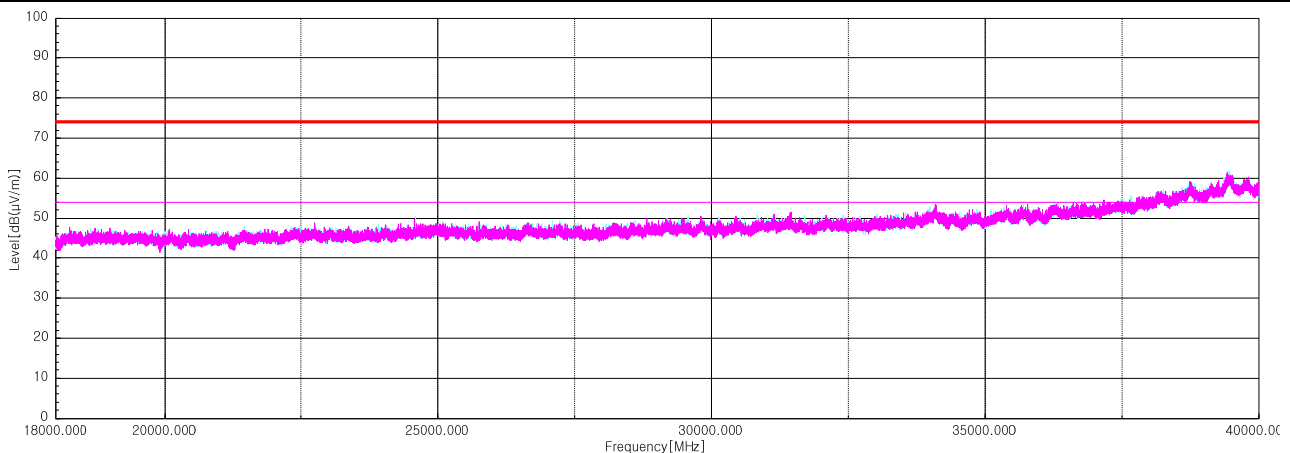
Horizontal/Vertical for 1 GHz ~ 6.5 GHz



Horizontal/Vertical for 6.5 GHz ~ 18 GHz



Horizontal/Vertical for 18 GHz ~ 40 GHz



UNII-1 2Tx (MIMO) Restricted Band edge (Lowest Channel)

802.11ax_HE20 SU mode_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								
5 149.99	H	58.80	34.60	-27.42	-	65.98	74.00	8.02
Average Data								
5 149.99 ¹⁾	H	40.68	34.60	-27.42	0.75	48.61	54.00	5.39

802.11ax_HE40 SU mode_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								
5 149.96 ¹⁾	H	59.60	34.60	-27.42	-	66.78	74.00	7.22
Average Data								
5 149.96 ¹⁾	H	42.26	34.60	-27.42	1.26	50.70	54.00	3.30

802.11ax_HE80 SU mode_Middle 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								
5 145.30 ¹⁾	H	59.20	34.58	-27.43	-	66.35	74.00	7.65
Average Data								
5 145.30 ¹⁾	H	42.62	34.58	-27.43	1.93	51.70	54.00	2.30

802.11ax_HE20 RU mode (26T / RU offset 0)_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								
5 137.41 ¹⁾	H	52.90	34.55	-27.43	-	60.02	74.00	13.98
Average Data								
5 137.41 ¹⁾	H	36.25	34.55	-27.43	0.11	43.48	54.00	10.52

802.11ax_HE20 RU mode (52T / RU offset 37)_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								
5 147.96 ¹⁾	H	54.30	33.30	-27.42	-	60.18	74.00	13.82
Average Data								
5 147.96 ¹⁾	H	35.94	33.30	-27.42	0.21	42.03	54.00	11.97

802.11ax_HE20 RU mode (106T / RU offset 53)_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								
5 147.77 ¹⁾	H	51.80	33.30	-27.42	-	57.68	74.00	16.32
Average Data								
5 147.77 ¹⁾	H	36.30	33.30	-27.42	0.40	42.58	54.00	11.42

802.11ax_HE20 RU mode (242T / RU offset 61)_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								
5 148.21 ¹⁾	H	50.40	33.30	-27.42	-	56.28	74.00	17.72
Average Data								
5 148.21 ¹⁾	H	36.45	33.30	-27.42	0.86	43.19	54.00	10.81

802.11ax_HE40 RU mode (484T / RU offset 65)_Highest 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								
5 145.65 ¹⁾	H	56.20	33.29	-27.43	-	62.06	74.00	11.94
Average Data								
5 145.65 ¹⁾	H	39.29	33.29	-27.43	1.15	46.30	54.00	7.70

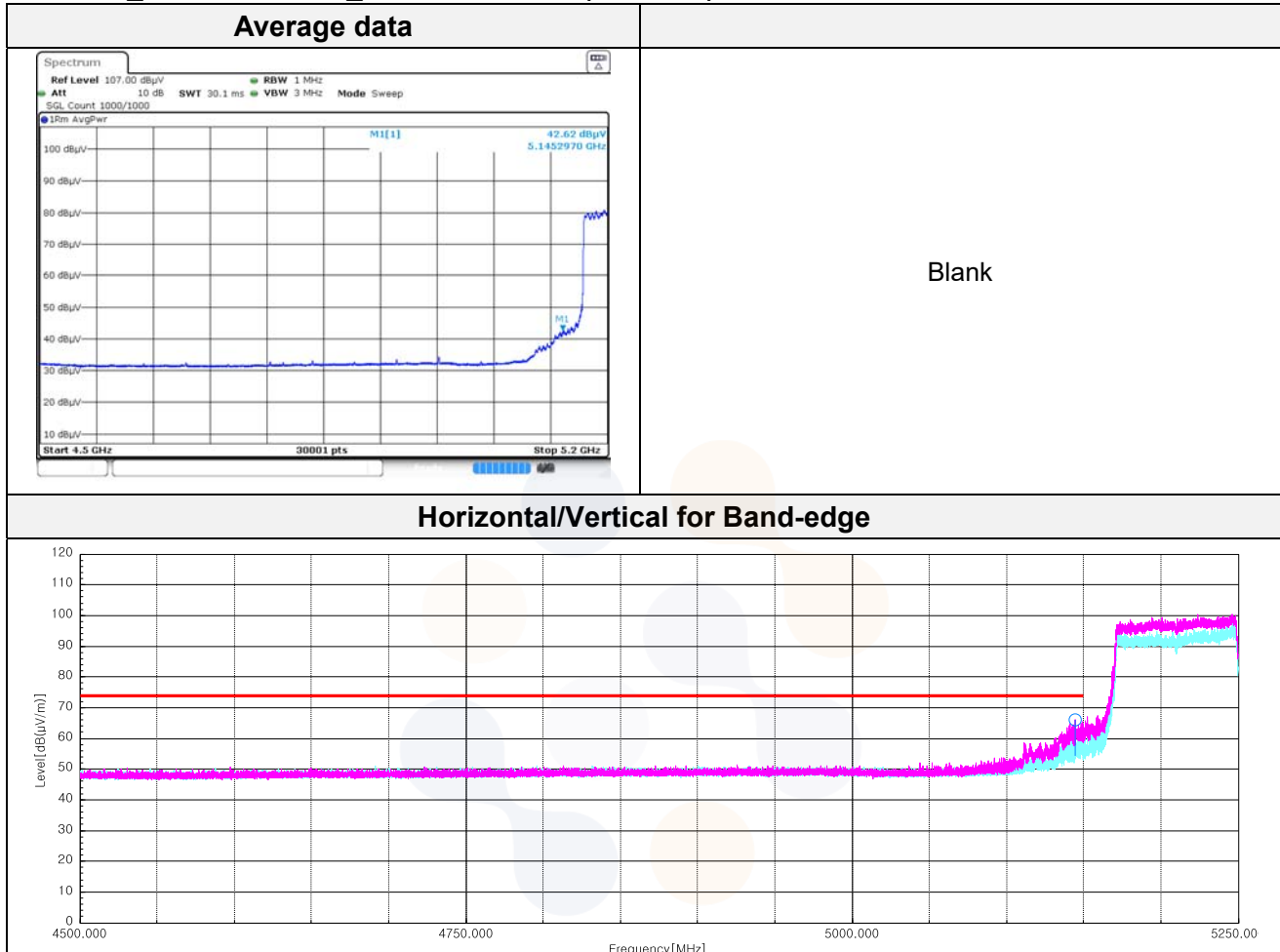
802.11ax_HE80 RU mode (996T / RU offset 67)_Middle Channel (5 210 MHz)

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								
5 147.98 ¹⁾	H	50.50	33.30	-27.42	-	56.38	74.00	17.62
Average Data								
5 147.98 ¹⁾	H	36.20	33.30	-27.42	2.01	44.09	54.00	9.91

Plot of Band edge

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

802.11ax_HE80 SU mode_Middle Channel (5 210 MHz)



UNII-2A 2Tx (MIMO) Restricted Band edge (Highest Channel)

802.11ax_HE20 SU mode_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								
5 350.00 ¹⁾	H	62.40	34.80	-27.07	-	70.13	74.00	3.87
Average Data								
5 350.00 ¹⁾	H	42.87	34.80	-27.07	0.75	51.35	54.00	2.65

802.11ax_HE40 SU mode_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								
5 350.26 ¹⁾	H	62.90	34.80	-27.07	-	70.63	74.00	3.37
Average Data								
5 350.26 ¹⁾	H	41.66	34.80	-27.07	1.26	50.65	54.00	3.35

802.11ax_HE80 SU mode_Middle 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								
5 350.40 ¹⁾	H	61.90	34.80	-27.07	-	69.63	74.00	4.37
Average Data								
5 350.40 ¹⁾	H	41.34	34.80	-27.07	1.93	51.00	54.00	3.00

802.11ax_HE20 RU mode (26T / RU offset 8)_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								
5 389.05 ¹⁾	H	50.40	34.88	-26.95	-	58.33	74.00	15.67
Average Data								
5 389.05 ¹⁾	H	35.78	34.88	-26.95	0.11	43.82	54.00	10.18

802.11ax_HE20 RU mode (52T / RU offset 40)_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								
5 354.58 ¹⁾	H	55.90	33.00	-27.06	-	61.84	74.00	12.16
Average Data								
5 354.58 ¹⁾	H	36.72	33.00	-27.06	0.21	42.87	54.00	11.13

802.11ax_HE20 RU mode (106T / RU offset 54)_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								
5 374.74 ¹⁾	H	50.80	33.00	-27.00	-	56.80	74.00	17.20
Average Data								
5 374.74 ¹⁾	H	36.52	33.00	-27.00	0.40	42.92	54.00	11.08

802.11ax_HE20 RU mode (242T / RU offset 61)_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								
5 356.78 ¹⁾	H	51.30	33.00	-27.05	-	57.25	74.00	16.75
Average Data								
5 356.78 ¹⁾	H	36.80	33.00	-27.05	0.86	43.61	54.00	10.39

802.11ax_HE40 RU mode (484T / RU offset 65)_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								
5 351.93 ¹⁾	H	54.90	33.00	-27.07	-	60.83	74.00	13.17
Average Data								
5 351.93 ¹⁾	H	38.48	33.00	-27.07	1.15	45.56	54.00	8.44

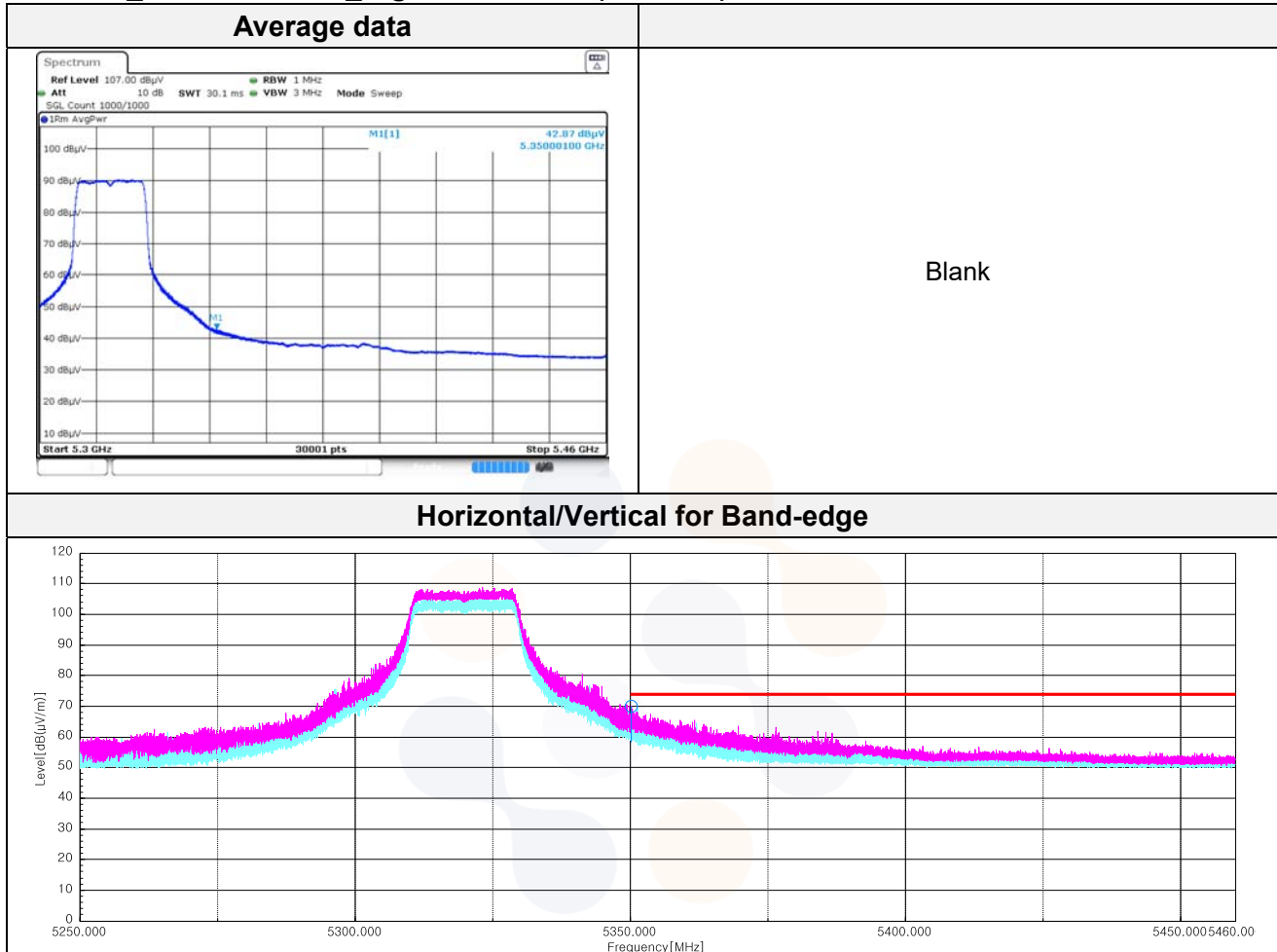
802.11ax_HE80 RU mode (996T / RU offset 67)_Middle Channel (5 290 MHz)

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								
5 356.08 ¹⁾	H	49.00	33.00	-27.05	-	54.95	74.00	19.05
Average Data								
5 356.08 ¹⁾	H	35.86	33.00	-27.05	2.01	43.82	54.00	10.18

Plot of Band edge

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

802.11ax_HE20 SU mode_Highest Channel (5 320 MHz)



UNII-2C 2Tx (MIMO) Restricted Band edge (Lowest Channel)

802.11ax_HE20 SU mode_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								
5 428.59 ¹⁾	H	56.20	34.96	-26.83	-	64.33	74.00	9.67
Average Data								
5 428.59 ¹⁾	H	40.82	34.96	-26.83	0.75	49.70	54.00	4.30

802.11ax_HE40 SU mode_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								
5 459.72 ¹⁾	H	54.70	35.02	-26.73	-	62.99	74.00	11.01
Average Data								
5 459.72 ¹⁾	H	41.06	35.02	-26.73	1.26	50.61	54.00	3.39

802.11ax_HE80 SU mode_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								
5 459.40 ¹⁾	H	55.20	35.02	-26.74	-	63.48	74.00	10.52
Average Data								
5 459.40 ¹⁾	H	41.14	35.02	-26.74	1.93	51.35	54.00	2.65

802.11ax_HE20 RU mode (26T / RU offset 0)_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								
5 433.29 ¹⁾	H	52.60	34.97	-26.82	-	60.75	74.00	13.25
Average Data								
5 433.29 ¹⁾	H	37.84	34.97	-26.82	0.11	46.10	54.00	7.90

802.11ax_HE20 RU mode (52T / RU offset 37)_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								
5 396.36 ¹⁾	H	54.30	33.00	-26.93	-	60.37	74.00	13.63
Average Data								
5 396.36 ¹⁾	H	39.42	33.00	-26.93	0.21	45.70	54.00	8.30

802.11ax_HE20 RU mode (106T / RU offset 53)_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								
5 418.65 ¹⁾	H	53.40	33.00	-26.86	-	59.54	74.00	14.46
Average Data								
5 418.65 ¹⁾	H	39.45	33.00	-26.86	0.40	45.99	54.00	8.01

802.11ax_HE20 RU mode (242T / RU offset 61)_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								
5 413.04 ¹⁾	H	53.50	33.00	-26.88	-	59.62	74.00	14.38
Average Data								
5 413.04 ¹⁾	H	39.37	33.00	-26.88	0.86	46.35	54.00	7.65

802.11ax_HE40 RU mode (484T / RU offset 65)_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								
5 455.99 ¹⁾	H	55.20	33.00	-26.75	-	61.45	74.00	12.55
Average Data								
5 455.99 ¹⁾	H	39.21	33.00	-26.75	1.15	46.61	54.00	7.39

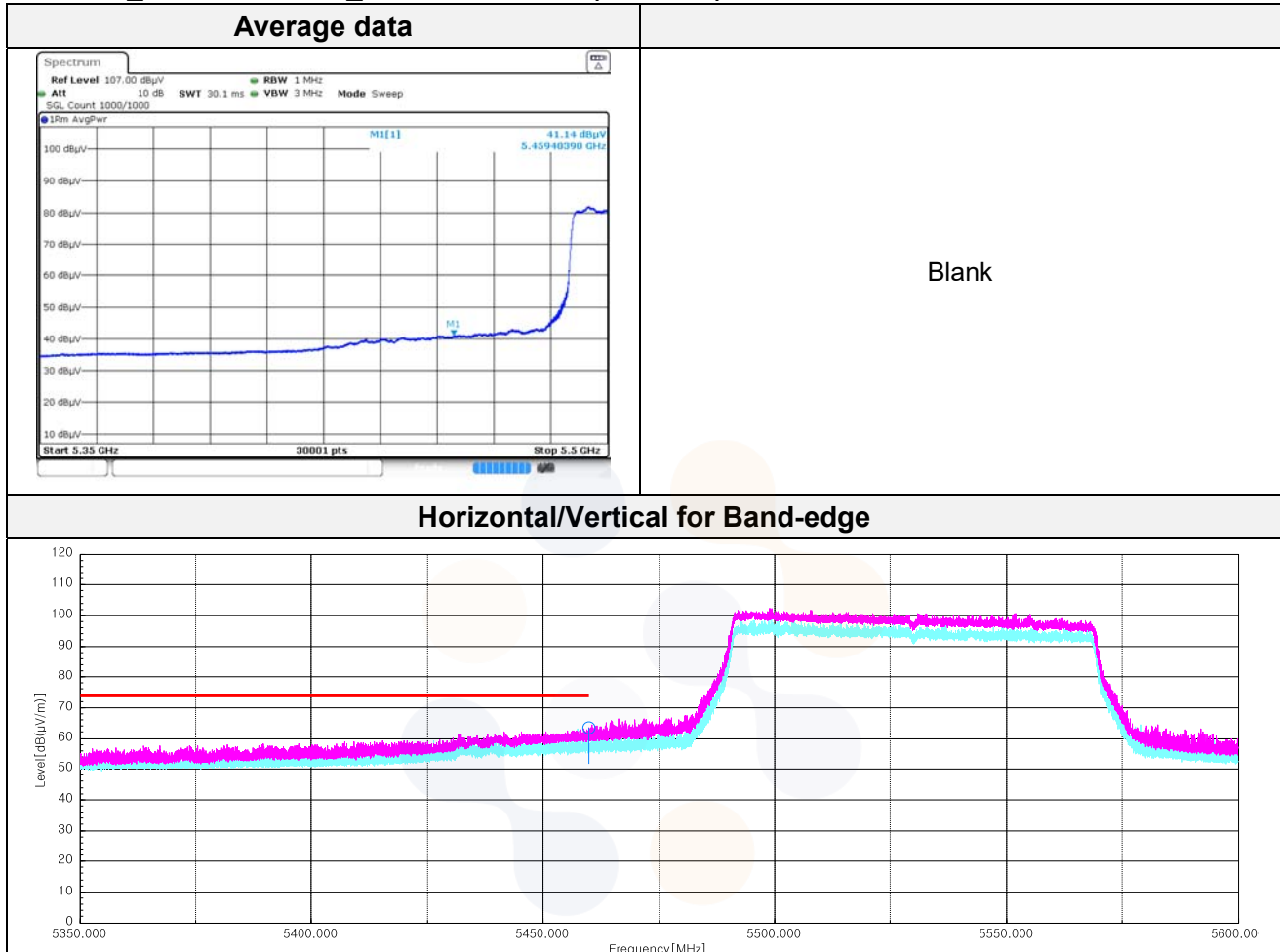
802.11ax_HE80 RU mode (996T / RU offset 67)_Lowest Channel (5 530 MHz)

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								
5 435.52 ¹⁾	H	52.20	33.00	-26.81	-	58.39	74.00	15.61
Average Data								
5 435.52 ¹⁾	H	38.01	33.00	-26.81	2.01	46.21	54.00	7.79

Plot of Band edge

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

802.11ax_HE80 SU mode_Lowest Channel (5 530 MHz)



UNII-2C 2Tx (MIMO) Band edge (Highest Channel)

802.11ax_HE20 SU mode_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								
5 725.03	H	57.50	34.80	-26.66	-	65.64	68.20	2.56

802.11ax_HE40 SU mode_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								
5 725.30	H	54.10	34.80	-26.66	-	62.24	68.20	5.96

802.11ax_HE80 SU mode_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								
5 806.04	H	46.30	35.01	-26.44	-	54.87	68.20	13.33

802.11ax_HE20 RU mode (26T / RU offset 8)_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								
5 745.07	H	58.00	34.80	-26.66	-	66.14	68.20	2.06

802.11ax_HE20 RU mode (52T / RU offset 40)_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								
5 733.94	H	54.90	33.80	-26.66	-	62.04	68.20	6.16

802.11ax_HE20 RU mode (106T / RU offset 54)_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								
5 729.85	H	53.60	33.78	-26.66	-	60.72	68.20	7.48

802.11ax_HE20 RU mode (242T / RU offset 61)_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								
5 725.22	H	50.10	33.75	-26.66	-	57.19	68.20	11.01

802.11ax_HE40 RU mode (484T / RU offset 65)_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								
5 728.98	H	47.60	33.77	-26.66	-	54.71	68.20	13.49

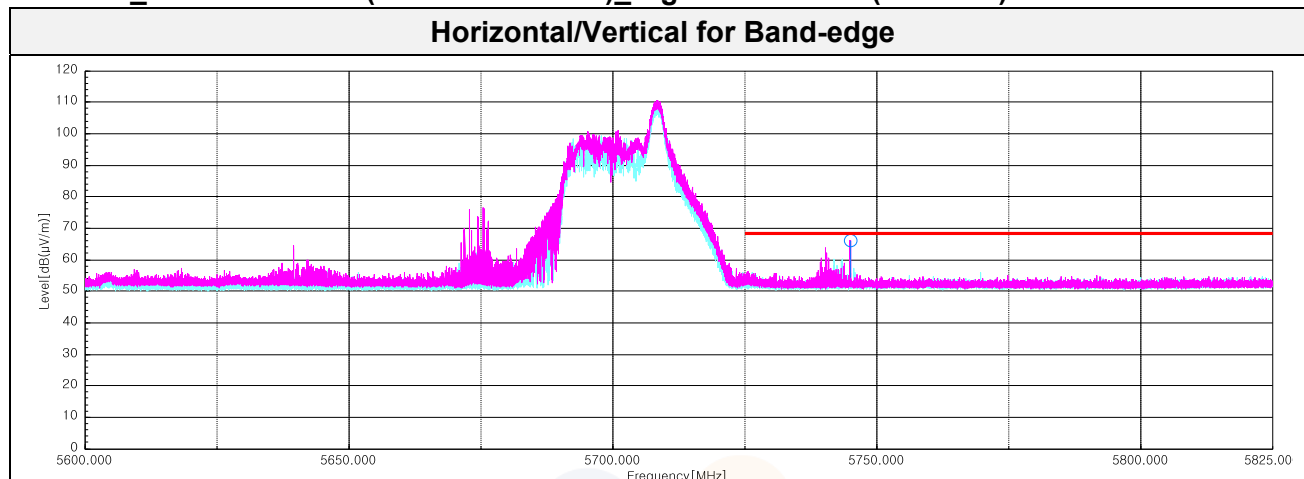
802.11ax_HE80 RU mode (996T / RU offset 67)_Highest Channel (5 610 MHz)

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								
5 810.27	H	45.20	34.04	-26.42	-	52.82	68.20	15.38

Plot of Band edge

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

802.11ax_HE20 RU mode (26T / RU offset 8)_Highest Channel (5 700 MHz)



UNII-3 2Tx (MIMO) Band edge (Lowest Channel)

802.11ax_HE20 SU mode_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								
5 724.33	V	70.90	34.80	-26.65	-	79.05	120.70	41.65

802.11ax_HE40 SU mode_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								
5 721.92	V	67.90	34.80	-26.65	-	76.05	115.20	39.15

802.11ax_HE80 SU mode_Middle 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								
5 714.02	V	61.70	33.68	-26.65	-	68.73	109.10	40.37

802.11ax_HE20 RU mode (26T / RU offset 0)_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								
5 703.83	H	59.70	33.62	-26.65	-	66.67	106.30	39.63
5 725.00	H	57.60	33.75	-26.65	-	64.70	122.20	57.50

802.11ax_HE20 RU mode (52T / RU offset 37)_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								
5 707.49	V	59.70	33.64	-26.65	-	66.69	107.30	40.61
5 724.80	V	56.10	33.75	-26.65	-	63.20	121.70	58.50

802.11ax_HE20 RU mode (106T / RU offset 53)_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								
5 724.96	H	52.70	33.75	-26.65	-	59.80	122.10	62.30

802.11ax_HE20 RU mode (242T / RU offset 61)_Lowest Channel (5 745 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								
5 722.69	H	53.90	33.74	-26.65	-	60.99	116.90	55.91

802.11ax_HE40 RU mode (484T / RU offset 65)_Lowest Channel (5 755 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								
5 723.74	H	60.70	33.74	-26.65	-	67.79	119.30	51.51

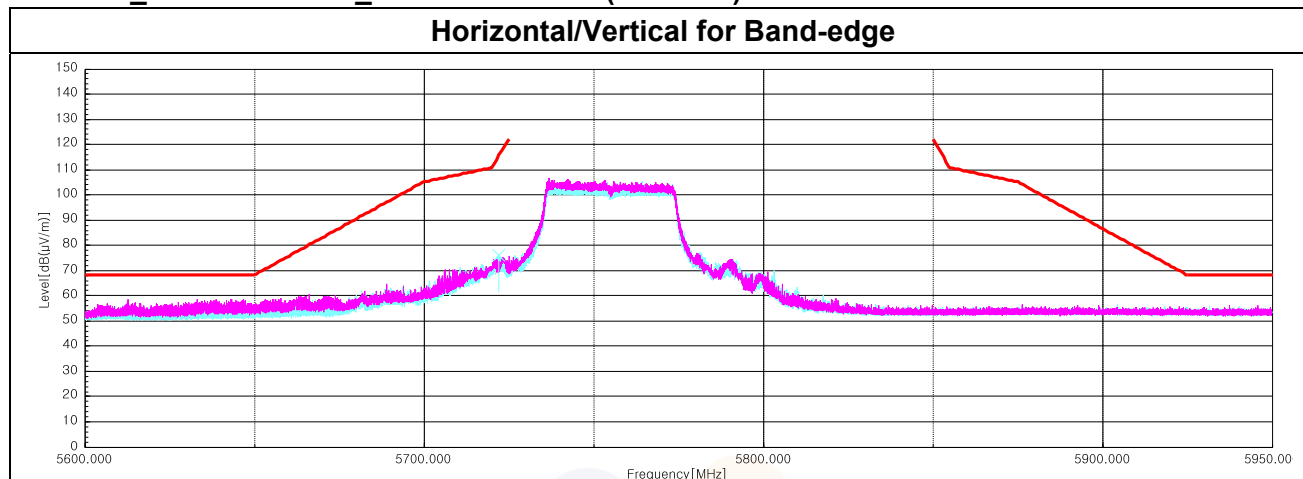
802.11ax_HE80 RU mode (996T / RU offset 67)_Middle Channel (5 775 MHz)

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								
5 716.71	H	51.00	33.70	-26.65	-	58.05	109.90	51.85

Plot of Band edge

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

802.11ax_HE40 SU mode_Lowest Channel (5 755 MHz)



UNII-3 2Tx (MIMO) Band edge (Highest Channel)

802.11ax_HE20 SU mode_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								
5 850.04	V	63.60	35.10	-26.26	-	72.44	122.10	49.66

802.11ax_HE40 SU mode_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								
5 850.10	V	51.70	34.20	-26.26	-	59.64	122.00	62.36

802.11ax_HE80 SU mode_Highest 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								
5 851.02	V	53.20	34.20	-26.26	-	61.14	119.90	58.76

802.11ax_HE20 RU mode (26T / RU offset 8)_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								
5 869.26	V	62.80	34.28	-26.19	-	70.89	106.80	35.91

802.11ax_HE20 RU mode (52T / RU offset 40)_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								
5 859.92	V	58.60	34.24	-26.22	-	66.62	109.40	42.78

802.11ax_HE20 RU mode (106T / RU offset 54)_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								
5 862.97	V	55.30	34.25	-26.21	-	63.34	108.60	45.26

802.11ax_HE20 RU mode (242T / RU offset 61)_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								
5 850.26	H	52.70	34.20	-26.26	-	60.64	121.60	60.96

802.11ax_HE40 RU mode (484T / RU offset 65)_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								
5 855.58	V	48.80	34.22	-26.24	-	56.78	110.60	53.82

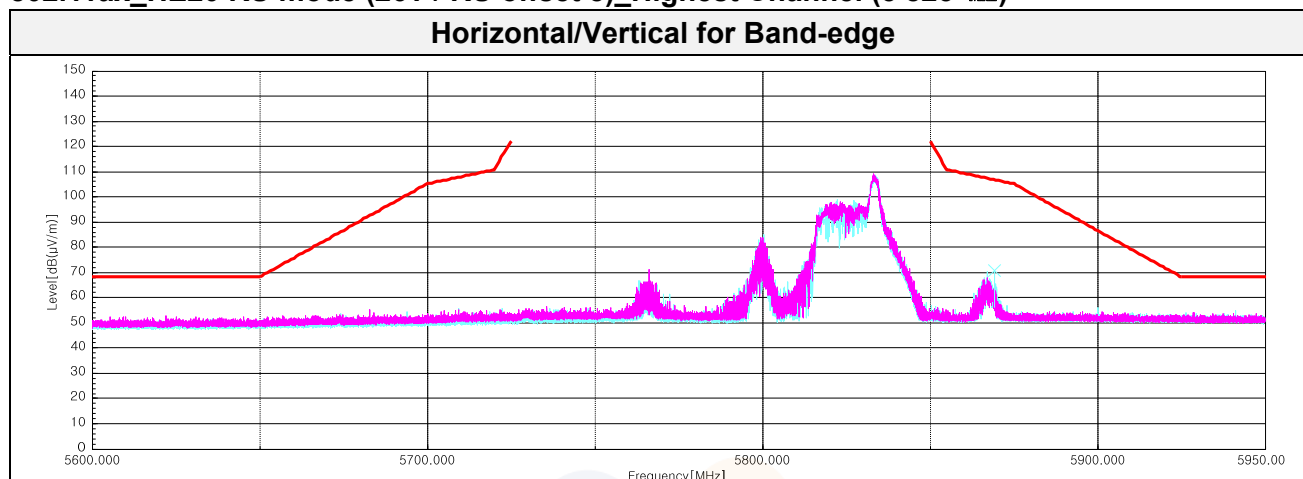
802.11ax_HE80 RU mode (996T / RU offset 67)_Highest Channel (5 775 MHz)

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								
5 853.70	H	45.60	34.21	-26.25	-	53.56	113.80	60.24

Plot of Band edge

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

802.11ax_HE20 RU mode (26T / RU offset 8)_Highest Channel (5 825 MHz)



UNII-1 2Tx (MIMO) Harmonics and Spurious Emissions

802.11ax_HE20 SU mode_Lowest Channel (5 180 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								
10 427.63	H	55.20	39.06	-43.84	-	50.42	68.20	17.78
15 505.65 ¹⁾	H	53.80	38.29	-41.55	-	50.54	74.00	23.46
Average Data								
No spurious emissions were detected within 20 dB of the limit								

802.11ax_HE20 SU mode_Middle Channel (5 200 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								
10 413.07	H	55.20	39.03	-43.84	-	50.39	68.20	17.81
15 600.72 ¹⁾	V	53.40	38.00	-41.53	-	49.87	74.00	24.13
Average Data								
No spurious emissions were detected within 20 dB of the limit								

802.11ax_HE20 SU mode_Highest Channel (5 240 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								
10 457.92	V	55.90	39.00	-43.84	-	51.06	68.20	17.14
15 639.82 ¹⁾	H	54.00	37.84	-41.53	-	50.31	74.00	23.69
Average Data								
No spurious emissions were detected within 20 dB of the limit								

802.11ax_HE40 SU mode_Lowest Channel (5 190 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								
10 365.53	H	55.30	38.87	-43.85	-	50.32	68.20	17.88
15 629.85 ¹⁾	V	53.90	37.88	-41.53	-	50.25	74.00	23.75
Average Data								

802.11ax_HE40 SU mode_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								
10 456.77	H	55.20	39.00	-43.84	-	50.36	68.20	17.84
15 766.32 ¹⁾	V	54.30	38.10	-41.49	-	50.91	74.00	23.09
Average Data								
No spurious emissions were detected within 20 dB of the limit								

802.11ax_HE80 SU mode_Middle 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								
10 427.25	V	55.40	39.05	-43.84	-	50.61	68.20	17.59
15 596.50 ¹⁾	V	53.60	38.11	-41.53	-	50.18	74.00	23.82
Average Data								
No spurious emissions were detected within 20 dB of the limit								

802.11ax_HE20 RU mode (26T / RU offset 8)_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								
10 440.28	V	55.10	39.08	-43.84	-	50.34	68.20	17.86
15 506.80 ¹⁾	V	53.40	38.29	-41.55	-	50.14	74.00	23.86
Average Data								
No spurious emissions were detected within 20 dB of the limit								

802.11ax_HE20 RU mode (242T / RU offset 61)_Middle Channel (5 200 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								
10 450.63	V	55.10	39.00	-43.84	-	50.26	68.20	17.94
15 602.25 ¹⁾	H	53.60	37.99	-41.53	-	50.06	74.00	23.94
Average Data								
No spurious emissions were detected within 20 dB of the limit								

802.11ax_HE20 RU mode (26T / RU offset 8)_Hihest 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								
10 485.90	H	55.10	39.00	-43.84	-	50.26	68.20	17.94
15 773.22 ¹⁾	H	53.70	38.10	-41.49	-	50.31	74.00	23.69
Average Data								
No spurious emissions were detected within 20 dB of the limit								

802.11ax_HE40 RU mode (52T / RU offset 41)_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								
10 420.35	H	54.80	39.04	-43.84	-	50.00	68.20	18.20
15 517.53 ¹⁾	H	53.70	38.26	-41.55	-	50.41	74.00	23.59
Average Data								
No spurious emissions were detected within 20 dB of the limit								

802.11ax_HE40 RU mode (106T / RU offset 56)_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								
10 472.10	V	54.70	39.00	-43.84	-	49.86	68.20	18.34
15 786.00 ¹⁾	H	54.90	38.10	-41.47	-	51.53	74.00	22.47
Average Data								
15 786.00 ¹⁾	H	42.24	38.10	-41.47	0.42	39.29	54.00	14.71

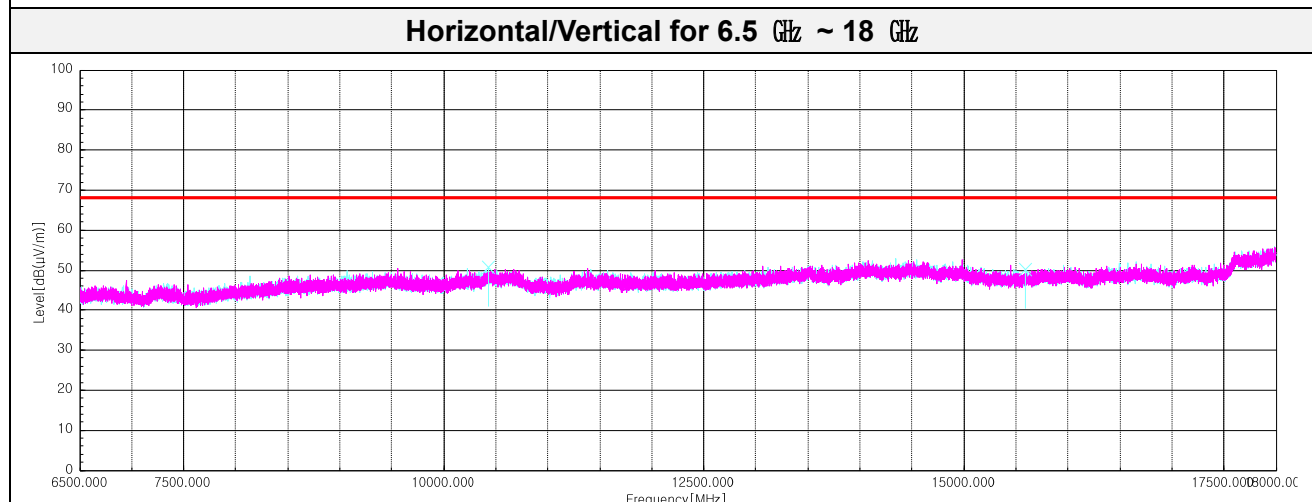
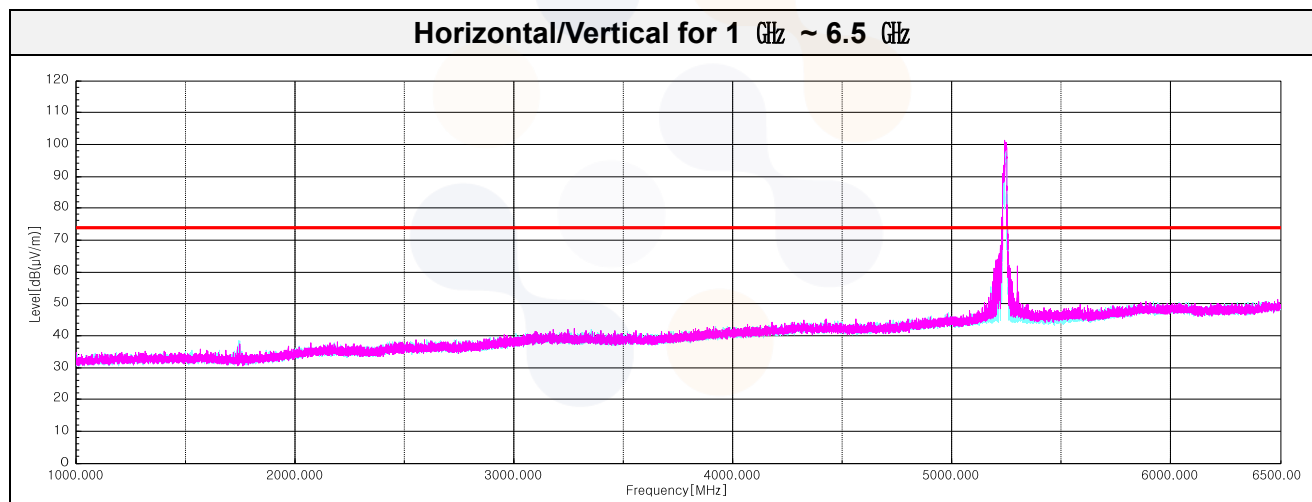
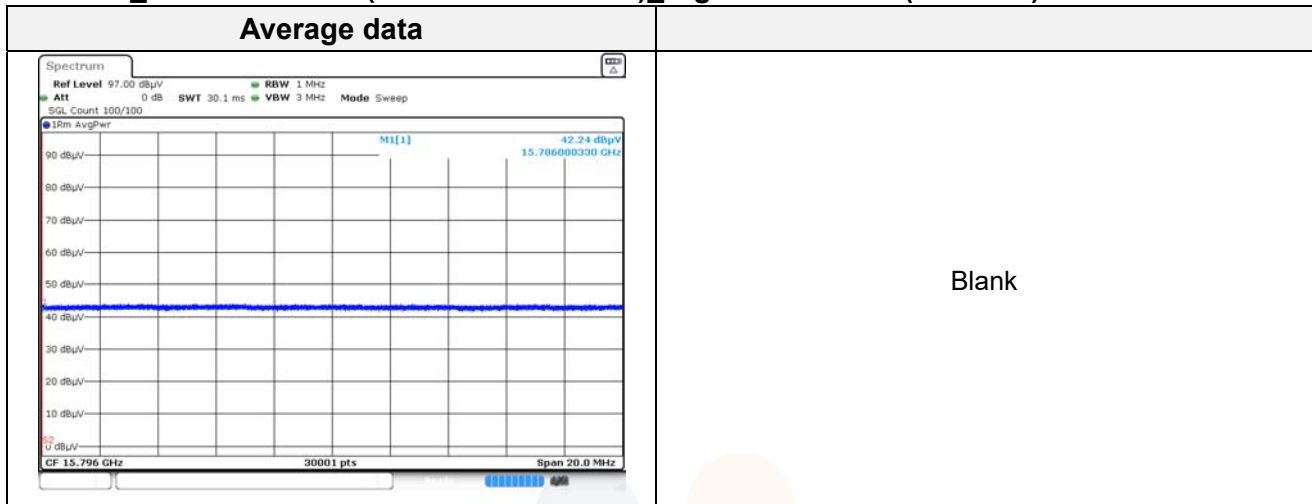
802.11ax_HE80 RU mode (484T / RU offset 66)_Middle Channel (5 210 MHz)

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								
10 433.77	H	55.90	39.07	-43.84	-	51.13	68.20	17.07
15 630.62 ¹⁾	H	53.20	37.88	-41.53	-	49.55	74.00	24.45
Average Data								
No spurious emissions were detected within 20 dB of the limit								

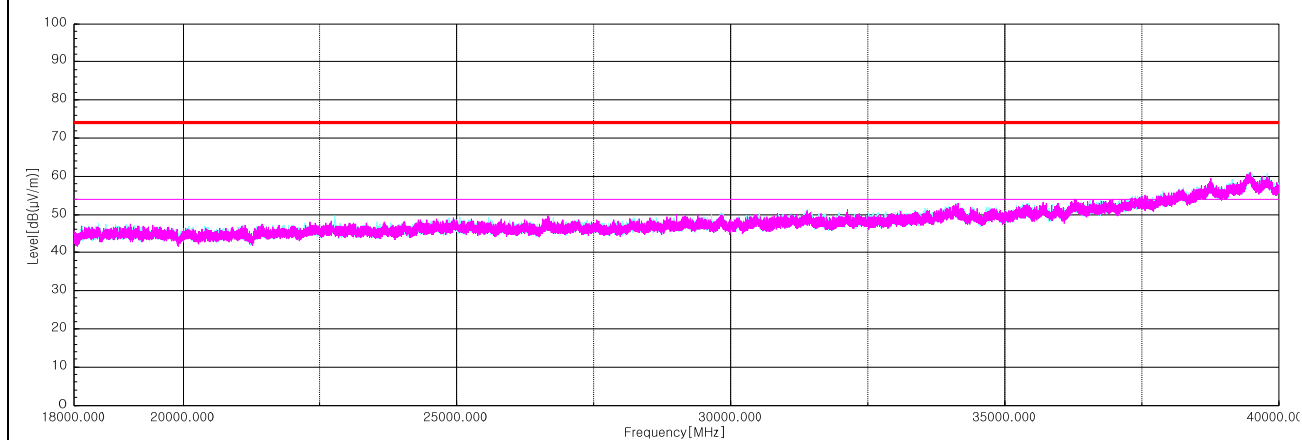
Plot of Harmonics and Spurious Emissions

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

802.11ax_HE40 RU mode (106T / RU offset 56)_Highest Channel (5 230 MHz)



Horizontal/Vertical for 18 GHz ~ 40 GHz



UNII-2A 2Tx (MIMO) Harmonics and Spurious Emissions

802.11ax_HE20 SU mode_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								
10 617.00 ¹⁾	H	55.20	39.23	-44.12	-	50.31	74.00	23.69
15 826.12 ¹⁾	H	54.00	38.25	-41.43	-	50.82	74.00	23.18
Average Data								
No spurious emissions were detected within 20 dB of the limit								

802.11ax_HE20 SU mode_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								
10 657.63 ¹⁾	V	55.70	39.32	-44.21	-	50.81	74.00	23.19
15 750.90 ¹⁾	H	55.00	38.10	-41.51	-	51.59	74.00	22.41
Average Data								
15 750.90 ¹⁾	H	43.75	38.10	-41.51	0.75	41.09	54.00	12.91

802.11ax_HE20 SU mode_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								
10 602.82 ¹⁾	H	55.20	39.21	-44.08	-	50.33	74.00	23.67
15 965.41 ¹⁾	V	54.20	38.20	-41.29	-	51.11	74.00	22.89
Average Data								
15 965.41 ¹⁾	V	43.86	38.20	-41.29	0.75	41.52	54.00	12.48

802.11ax_HE40 SU mode_Lowest Channel (5 270 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								
10 494.33	V	55.20	39.00	-43.84	-	50.36	68.20	17.84
15 786.73 ¹⁾	H	55.20	38.10	-41.47	-	51.83	74.00	22.17
Average Data								
15 786.73 ¹⁾	H	43.91	38.10	-41.47	1.26	41.80	54.00	12.20

802.11ax_HE40 SU mode_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								
10 594.77	H	55.40	39.19	-44.06	-	50.53	68.20	17.67
16 018.93 ¹⁾	V	53.90	38.20	-41.30	-	50.80	74.00	23.20
Average Data								
No spurious emissions were detected within 20 dB of the limit								

802.11ax_HE80 SU mode_Middle 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								
10 579.82	V	55.10	39.16	-44.03	-	50.23	68.20	17.97
15 925.66 ¹⁾	H	54.20	38.20	-41.33	-	51.07	74.00	22.93
Average Data								
15 925.66 ¹⁾	H	43.97	38.20	-41.33	1.93	42.77	54.00	11.23

802.11ax_HE20 RU mode (242T / RU offset 61)_Lowest 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								
10 472.87	H	55.40	39.00	-43.84	-	50.56	68.20	17.64
15 806.18 ¹⁾	H	53.90	38.21	-41.45	-	50.66	74.00	23.34
Average Data								
No spurious emissions were detected within 20 dB of the limit								

802.11ax_HE20 RU mode (52T / RU offset 38)_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								
10 635.40 ¹⁾	V	55.40	39.27	-44.16	-	50.51	74.00	23.49
15 917.73 ¹⁾	H	53.60	38.20	-41.34	-	50.46	74.00	23.54
Average Data								
No spurious emissions were detected within 20 dB of the limit								

802.11ax_HE20 RU mode (106T / RU offset 54)_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								
10 629.27 ¹⁾	H	54.60	39.26	-44.15	-	49.71	74.00	24.29
15 991.33 ¹⁾	V	53.90	38.20	-41.27	-	50.83	74.00	23.17
Average Data								
No spurious emissions were detected within 20 dB of the limit								

802.11ax_HE40 RU mode (106T / RU offset 56)_Highest Channel (5 270 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								
10 463.28	V	55.60	39.00	-43.84	-	50.76	68.20	17.44
15 905.17 ¹⁾	H	54.90	38.20	-41.35	-	51.75	74.00	22.25
Average Data								
15 905.17 ¹⁾	H	44.16	38.20	-41.35	0.42	41.43	54.00	12.57

802.11ax_HE40 RU mode (242T / RU offset 61)_Highest Channel (5 310 MHz)

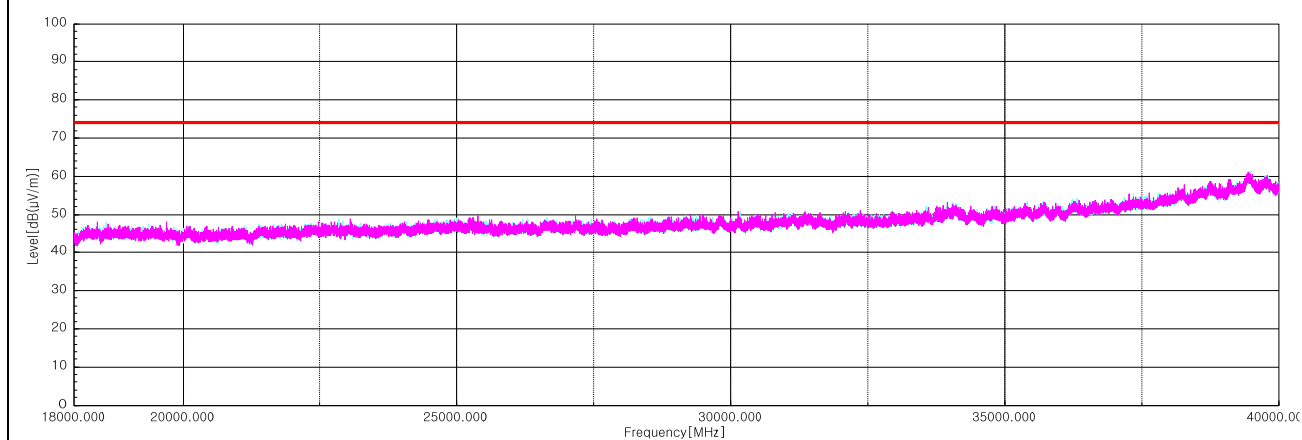
Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
10 536.50	V	55.00	39.00	-43.93	-	50.07	68.20	18.13
15 930.77 ¹⁾	V	54.10	38.20	-41.33	-	50.97	74.00	23.03
Average Data								
No spurious emissions were detected within 20 dB of the limit								

802.11ax_HE80 RU mode (242T / RU offset 62)_Middle 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								
10 607.80 ¹⁾	V	55.70	39.22	-44.09	-	50.83	74.00	23.17
15 881.55 ¹⁾	V	54.20	38.20	-41.38	-	51.02	74.00	22.98
Average Data								
15 881.55 ¹⁾	V	43.89	38.20	-41.38	1.06	41.77	54.00	12.23

Blank

Horizontal/Vertical for 18 GHz ~ 40 GHz



UNII-2C 2Tx (MIMO) Harmonics and Spurious Emissions

802.11ax_HE20 SU mode_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($\mu V/m$))	(dB($\mu V/m$))	(dB)
Peak data								
10 978.87 ¹⁾	V	52.60	39.14	-43.83	-	47.91	74.00	26.09
16 434.85	V	54.70	38.17	-41.49	-	51.38	68.20	16.82
Average Data								
No spurious emissions were detected within 20 dB of the limit								

802.11ax_HE20 SU mode_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($\mu V/m$))	(dB($\mu V/m$))	(dB)
Peak data								
11 296.65 ¹⁾	V	54.60	39.10	-43.37	-	50.33	74.00	23.67
16 796.33	H	54.90	38.01	-41.79	-	51.12	68.20	17.08
Average Data								
No spurious emissions were detected within 20 dB of the limit								

802.11ax_HE20 SU mode_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($\mu V/m$))	(dB($\mu V/m$))	(dB)
Peak data								
11 404.75 ¹⁾	V	53.90	39.20	-43.04	-	50.06	74.00	23.94
17 237.17	H	54.00	38.45	-41.22	-	51.23	68.20	16.97
Average Data								
No spurious emissions were detected within 20 dB of the limit								

802.11ax_HE40 SU mode_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								
11 003.78 ¹⁾	H	53.20	39.09	-43.77	-	48.52	74.00	25.48
16 578.98	V	54.70	38.10	-41.46	-	51.34	68.20	16.86
Average Data								
No spurious emissions were detected within 20 dB of the limit								

802.11ax_HE40 SU mode_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								
11 250.27 ¹⁾	V	53.70	39.10	-43.52	-	49.28	74.00	24.72
16 814.35	V	55.00	38.10	-41.85	-	51.25	68.20	16.95
Average Data								
No spurious emissions were detected within 20 dB of the limit								

802.11ax_HE40 SU mode_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								
11 254.10 ¹⁾	V	54.40	39.10	-43.51	-	49.99	74.00	24.01
16 998.73	H	55.30	37.80	-42.47	-	50.63	68.20	17.57
Average Data								
No spurious emissions were detected within 20 dB of the limit								

802.11ax_HE80 SU mode_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								
11 097.32 ¹⁾	H	52.80	38.91	-43.67	-	48.04	74.00	25.96
16 644.92	V	54.80	38.29	-41.53	-	51.56	68.20	16.64
Average Data								
No spurious emissions were detected within 20 dB of the limit								

802.11ax_HE80 SU mode_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								
11 254.87 ¹⁾	H	54.30	39.10	-43.50	-	49.90	74.00	24.10
16 747.27	H	55.00	38.20	-41.64	-	51.56	68.20	16.64
Average Data								
No spurious emissions were detected within 20 dB of the limit								

802.11ax_HE20 RU mode (242T / RU offset 61)_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								
10 957.78 ¹⁾	H	53.20	39.18	-43.88	-	48.50	74.00	25.50
16 488.13	H	54.60	38.10	-41.40	-	51.30	68.20	16.90
Average Data								
No spurious emissions were detected within 20 dB of the limit								

802.11ax_HE20 RU mode (242T / RU offset 61)_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								
11 251.42 ¹⁾	H	53.30	39.10	-43.52	-	48.88	74.00	25.12
16 771.80	V	55.70	38.06	-41.71	-	52.05	68.20	16.15
Average Data								
No spurious emissions were detected within 20 dB of the limit								

802.11ax_HE20 RU mode (26T / RU offset 0)_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								
11 445.77 ¹⁾	H	53.30	39.20	-42.91	-	49.59	74.00	24.41
17 174.68	V	54.70	38.10	-41.55	-	51.25	68.20	16.95
Average Data								
No spurious emissions were detected within 20 dB of the limit								

802.11ax_HE40 RU mode (106T / RU offset 53)_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								
10 999.57 ¹⁾	H	53.40	39.10	-43.77	-	48.73	74.00	25.27
16 564.42	V	54.40	38.10	-41.45	-	51.05	68.20	17.15
Average Data								
No spurious emissions were detected within 20 dB of the limit								

802.11ax_HE40 RU mode (52T / RU offset 37)_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								
11 227.27 ¹⁾	V	53.80	39.15	-43.54	-	49.41	74.00	24.59
16 769.50	V	55.30	38.06	-41.70	-	51.66	68.20	16.54
Average Data								
No spurious emissions were detected within 20 dB of the limit								

802.11ax_HE40 RU mode (26T / RU offset 0)_Lowest 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								
11 354.92 ¹⁾	H	54.10	39.20	-43.19	-	50.11	74.00	23.89
17 030.55	H	55.10	38.06	-42.31	-	50.85	68.20	17.35
Average Data								
No spurious emissions were detected within 20 dB of the limit								

802.11ax_HE80 RU mode (106T / RU offset 57)_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								
11 098.08 ¹⁾	V	53.30	38.90	-43.67	-	48.53	74.00	25.47
16 603.90	V	54.80	38.21	-41.49	-	51.52	68.20	16.68
Average Data								
No spurious emissions were detected within 20 dB of the limit								

802.11ax_HE80 RU mode (106T / RU offset 57)_Highest Channel (5 610 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								
11 251.03 ¹⁾	V	54.30	39.10	-43.52	-	49.88	74.00	24.12
16 871.08	V	55.30	37.96	-42.04	-	51.22	68.20	16.98
Average Data								
No spurious emissions were detected within 20 dB of the limit								

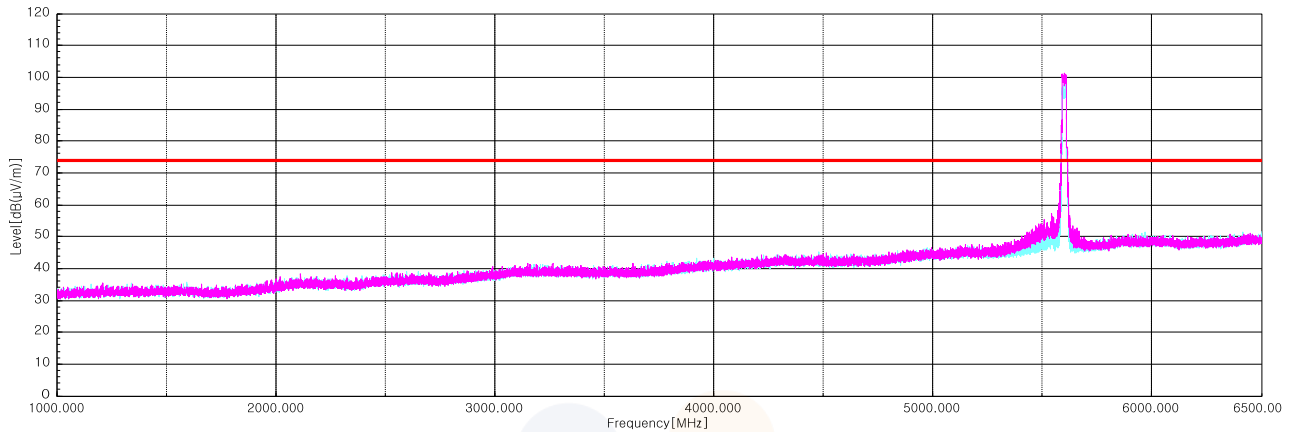


Plot of Harmonics and Spurious Emissions

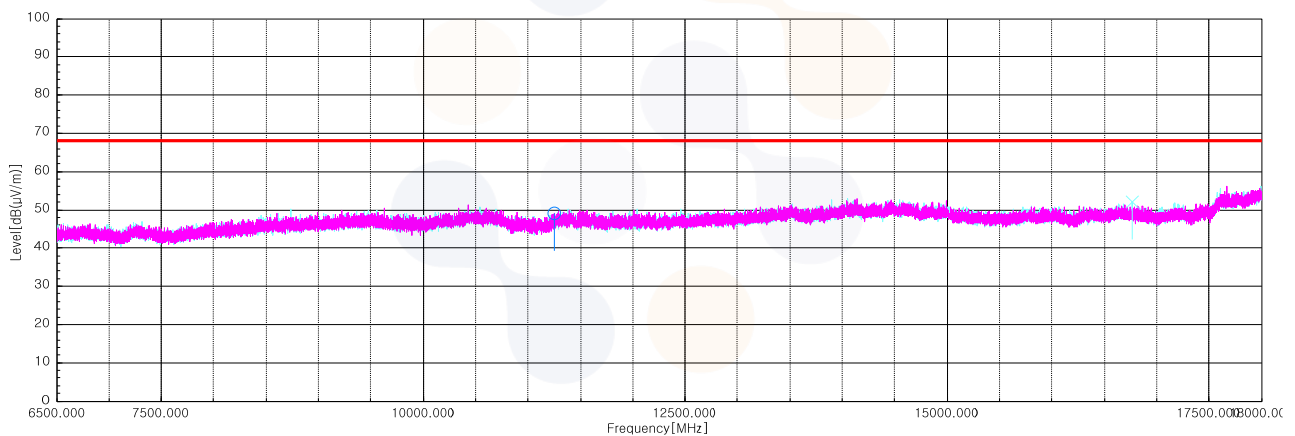
In order to simplify the report, attached plots were only the lowest margin condition

802.11ax_HE20 RU mode (242T / RU offset 61)_Middle Channel (5 600 MHz)

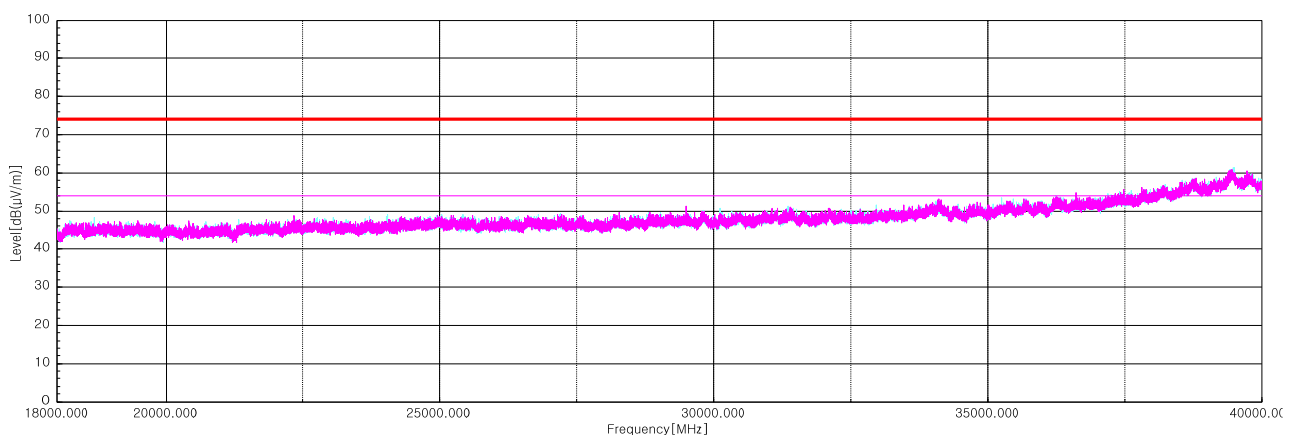
Horizontal/Vertical for 1 GHz ~ 6.5 GHz



Horizontal/Vertical for 6.5 GHz ~ 18 GHz



Horizontal/Vertical for 18 GHz ~ 40 GHz



UNII-2C&3 Straddle Channel 2Tx (MIMO) Harmonics and Spurious Emissions

802.11ax_HE20 SU mode_Middle Channel (5 720 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								
11 407.05 ¹⁾	H	54.00	39.20	-43.03	-	50.17	74.00	23.83
17 175.45	H	53.90	38.10	-41.54	-	50.46	68.20	17.74
Average Data								
No spurious emissions were detected within 20 dB of the limit								

802.11ax_HE40 SU mode_Middle Channel (5 710 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								
11 429.28 ¹⁾	V	53.40	39.20	-42.96	-	49.64	74.00	24.36
17 226.43	V	54.40	38.41	-41.27	-	51.54	68.20	16.66
Average Data								
No spurious emissions were detected within 20 dB of the limit								

802.11ax_HE80 SU mode_Middle Channel (5 690 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								
11 339.97 ¹⁾	H	54.30	39.28	-43.24	-	50.34	74.00	23.66
17 162.42	V	55.10	38.10	-41.61	-	51.59	68.20	16.61
Average Data								
No spurious emissions were detected within 20 dB of the limit								

802.11ax_HE20 RU mode (26T / RU offset 0)_Lowest Channel (5 720 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								
11 403.98 ¹⁾	H	53.10	39.20	-43.04		49.26	74.00	24.74
17 203.43	V	54.00	38.31	-41.40		50.91	68.20	17.29
Average Data								
No spurious emissions were detected within 20 dB of the limit								

802.11ax_HE40 RU mode (26T / RU offset 0)_Middle Channel (5 710 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								
11 327.70 ¹⁾	V	54.20	39.26	-43.28	-	50.18	74.00	23.82
17 151.30	V	54.80	38.10	-41.67	-	51.23	68.20	16.97
Average Data								
No spurious emissions were detected within 20 dB of the limit								

802.11ax_HE80 RU mode (52T / RU offset 52)_Middle Channel (5 690 MHz)

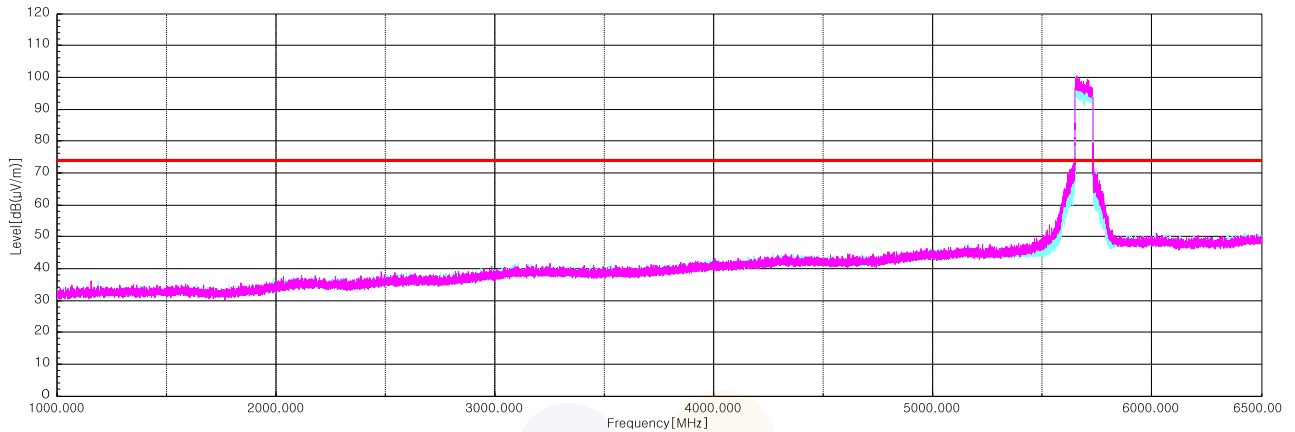
Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
11 334.98 ¹⁾	V	53.60	39.27	-43.25	-	49.62	74.00	24.38
17 073.87	V	54.90	38.15	-42.08	-	50.97	68.20	17.23
Average Data								
No spurious emissions were detected within 20 dB of the limit								

Plot of Harmonics and Spurious Emissions

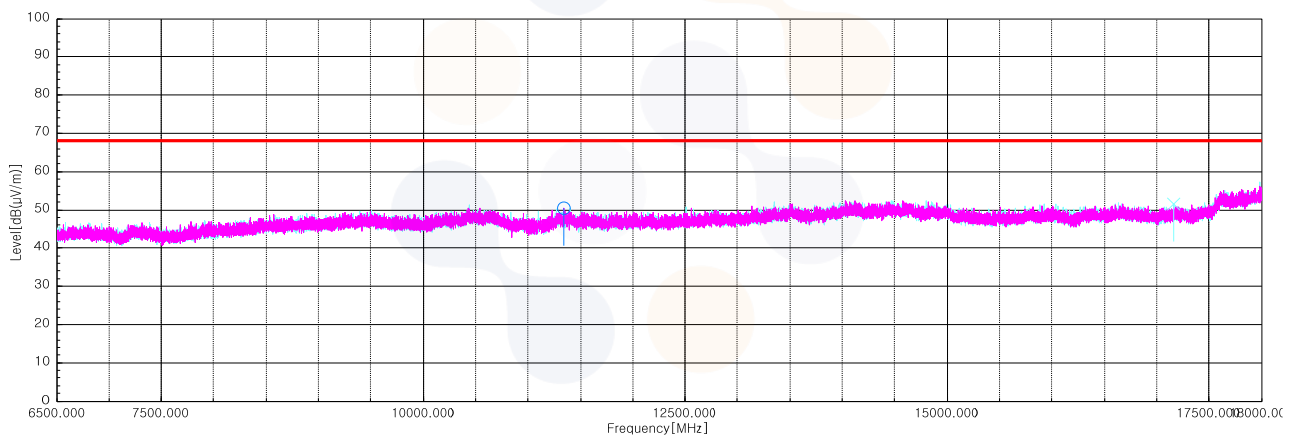
In order to simplify the report, attached plots were only the lowest margin condition

802.11ax_HE80 SU mode_Middle Channel (5 690 MHz)

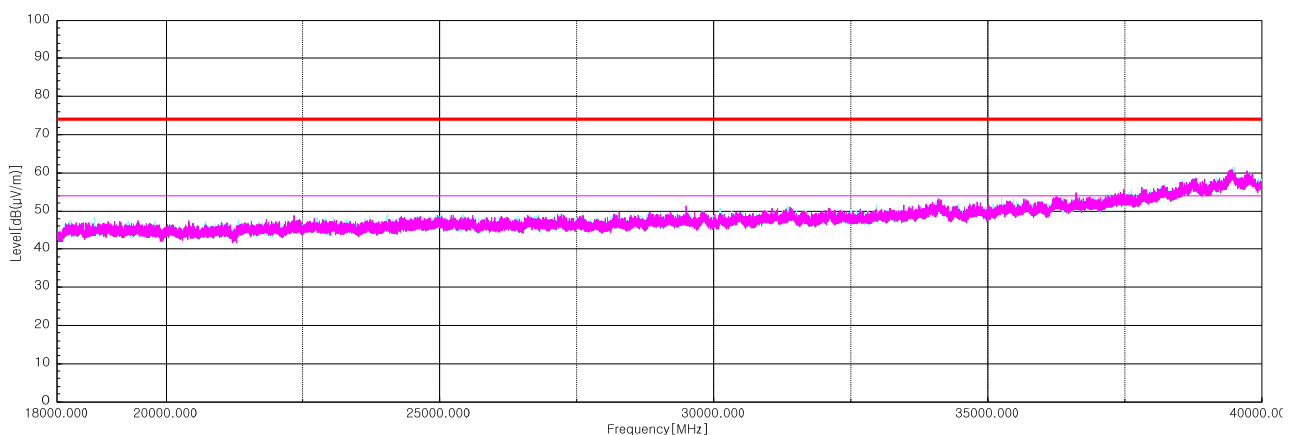
Horizontal/Vertical for 1 GHz ~ 6.5 GHz



Horizontal/Vertical for 6.5 GHz ~ 18 GHz



Horizontal/Vertical for 18 GHz ~ 40 GHz



UNII-3 2Tx (MIMO) Harmonics and Spurious Emissions

802.11ax_HE20 SU mode_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								
11 408.58 ¹⁾	H	54.00	39.20	-43.03	-	50.17	74.00	23.83
17 202.28	H	55.10	38.31	-41.40	-	52.01	68.20	16.19
Average Data								
No spurious emissions were detected within 20 dB of the limit								

802.11ax_HE20 SU mode_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								
11 578.78 ¹⁾	H	53.60	38.84	-42.52	-	49.92	74.00	24.08
17 392.42	H	53.60	38.87	-41.58	-	50.89	68.20	17.31
Average Data								
No spurious emissions were detected within 20 dB of the limit								

802.11ax_HE20 SU mode_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								
11 635.90 ¹⁾	H	52.70	38.73	-42.35	-	49.08	74.00	24.92
17 407.75	H	54.60	39.05	-41.63	-	52.02	68.20	16.18
Average Data								
No spurious emissions were detected within 20 dB of the limit								

802.11ax_HE40 SU mode_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								
11 523.58 ¹⁾	V	53.70	38.95	-42.67	-	49.98	74.00	24.02
17 246.75	V	54.20	38.49	-41.17	-	51.52	68.20	16.68
Average Data								
No spurious emissions were detected within 20 dB of the limit								

802.11ax_HE40 SU mode_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								
11 565.37 ¹⁾	V	53.30	38.87	-42.55	-	49.62	74.00	24.38
17 244.45	V	54.10	38.48	-41.18	-	51.40	68.20	16.80
Average Data								
No spurious emissions were detected within 20 dB of the limit								

802.11ax_HE80 SU mode_Middle 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								
11 531.25 ¹⁾	H	52.80	38.94	-42.65	-	49.09	74.00	24.91
17 436.50	H	54.00	39.22	-41.72	-	51.50	68.20	16.70
Average Data								
No spurious emissions were detected within 20 dB of the limit								

802.11ax_HE20 RU mode (52T / RU offset 37)_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								
11 457.27 ¹⁾	H	53.60	39.09	-42.87	-	49.82	74.00	24.18
17 213.40	H	54.20	38.35	-41.34	-	51.21	68.20	16.99
Average Data								
No spurious emissions were detected within 20 dB of the limit								

802.11ax_HE20 RU mode (52T / RU offset 37)_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								
11 651.62 ¹⁾	V	53.20	38.80	-42.31	-	49.69	74.00	24.31
17 357.15	H	53.50	38.73	-41.48	-	50.75	68.20	17.45
Average Data								
No spurious emissions were detected within 20 dB of the limit								

802.11ax_HE20 RU mode (26T / RU offset 4)_Middle 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								
11 653.15 ¹⁾	H	52.80	38.80	-42.31	-	49.29	74.00	24.71
17 474.07	H	54.60	39.30	-41.83	-	52.07	68.20	16.13
Average Data								
No spurious emissions were detected within 20 dB of the limit								

802.11ax_HE40 RU mode (52T / RU offset 37)_Highest 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								
11 537.77 ¹⁾	H	53.70	38.92	-42.63	-	49.99	74.00	24.01
17 197.30	H	54.10	38.10	-41.43	-	50.77	68.20	17.43
Average Data								
No spurious emissions were detected within 20 dB of the limit								

802.11ax_HE40 RU mode (26T / RU offset 0)_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								
11 607.92 ¹⁾	V	53.90	38.78	-42.43	-	50.25	74.00	23.75
17 449.53	V	53.90	39.30	-41.76	-	51.44	68.20	16.76
Average Data								
No spurious emissions were detected within 20 dB of the limit								

802.11ax_HE80 RU mode (484T / RU offset 65)_Middle Channel (5 775 MHz)

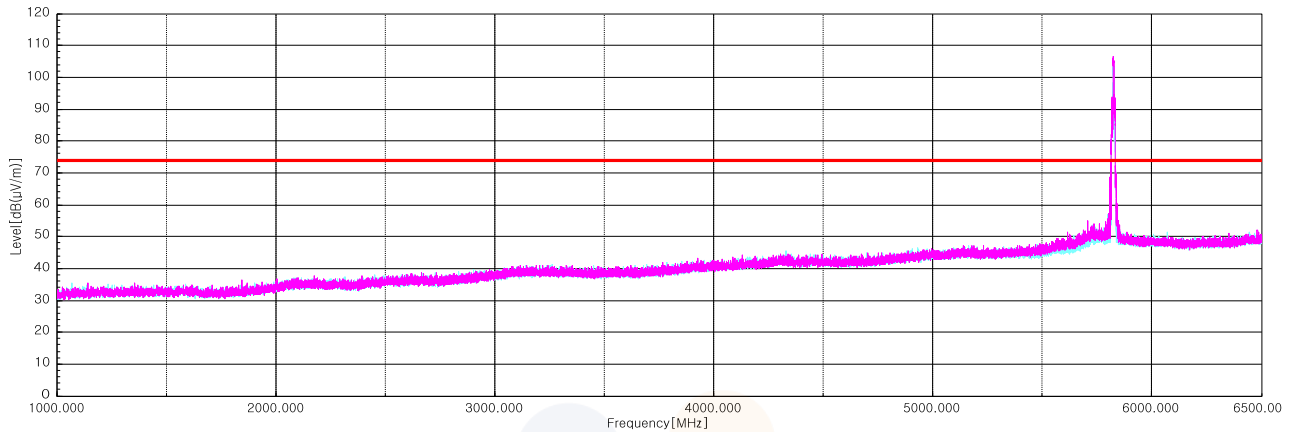
Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
11 562.68 ¹⁾	H	53.00	38.87	-42.56	-	49.31	74.00	24.69
17 406.60	H	54.60	39.04	-41.63	-	52.01	68.20	16.19
Average Data								
No spurious emissions were detected within 20 dB of the limit								

Plot of Harmonics and Spurious Emissions

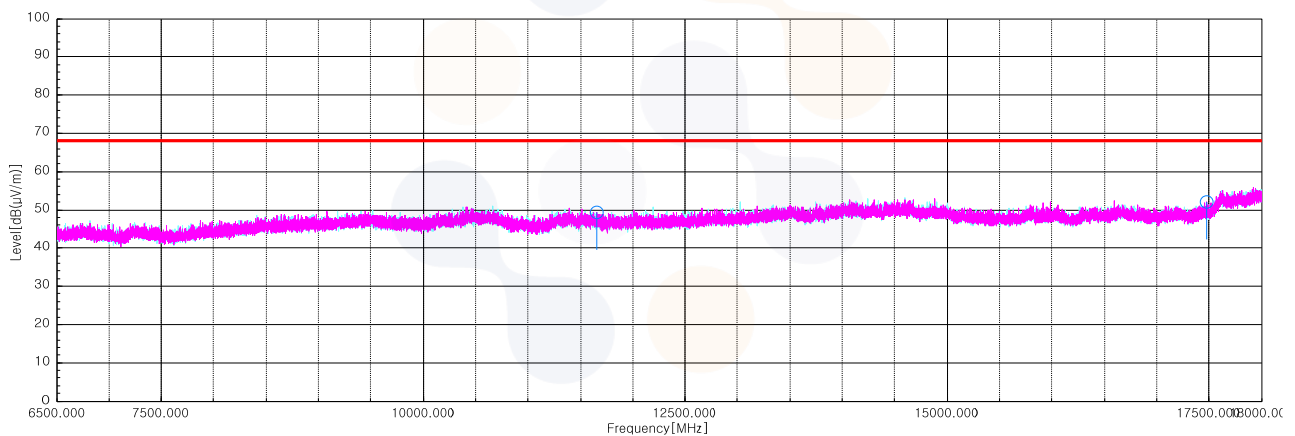
In order to simplify the report, attached plots were only the lowest margin condition

802.11ax_HE20 RU mode (26T / RU offset 4)_Middle Channel (5 825 MHz)

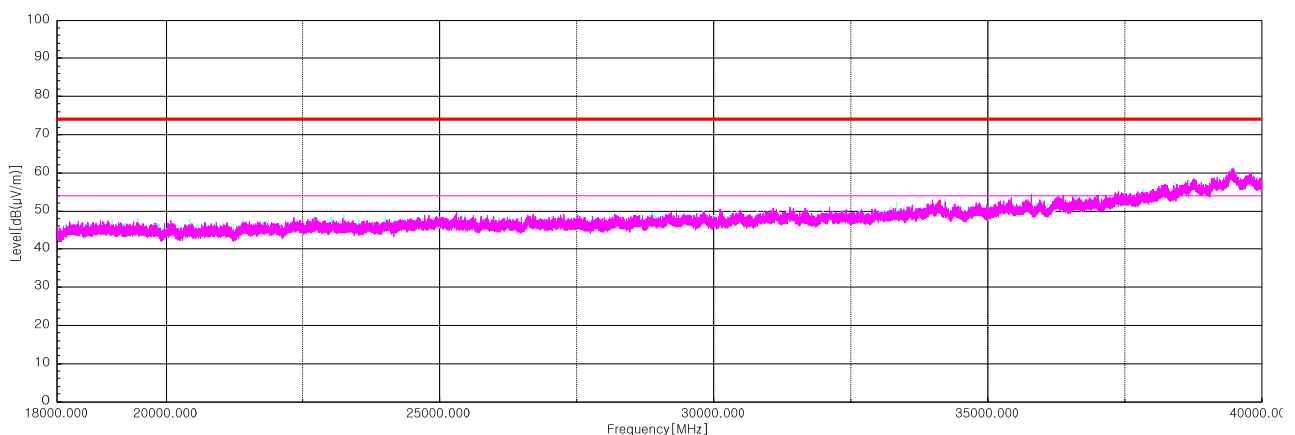
Horizontal/Vertical for 1 GHz ~ 6.5 GHz



Horizontal/Vertical for 6.5 GHz ~ 18 GHz



Horizontal/Vertical for 18 GHz ~ 40 GHz



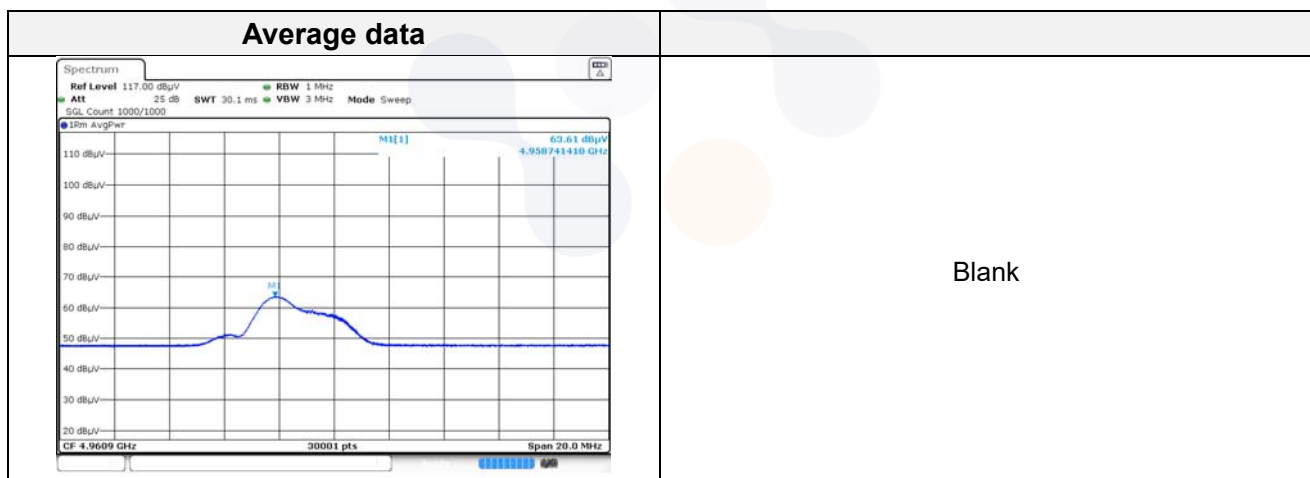
Spurious Emission for Simultaneous Tx Condition

Case	Bluetooth	5 GHz WLAN
Mode	BLE	ax20
Channel	39	140
Frequency	2 480	5 700
Data Rate	2M Bits/s,37Packets	HE0
T.O	-	SU

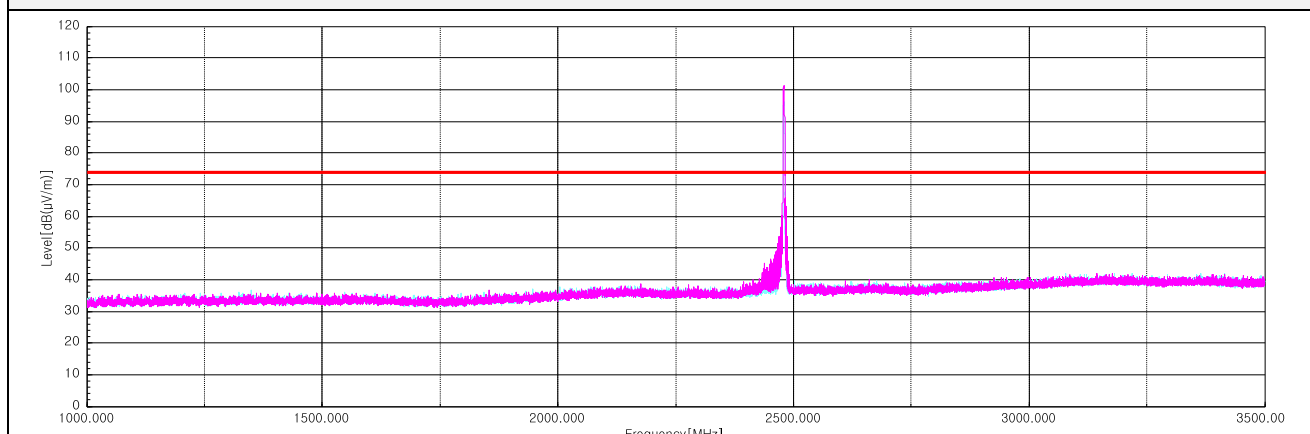
Notes.

The lowest margin condition among the channels and modes were selected for test.

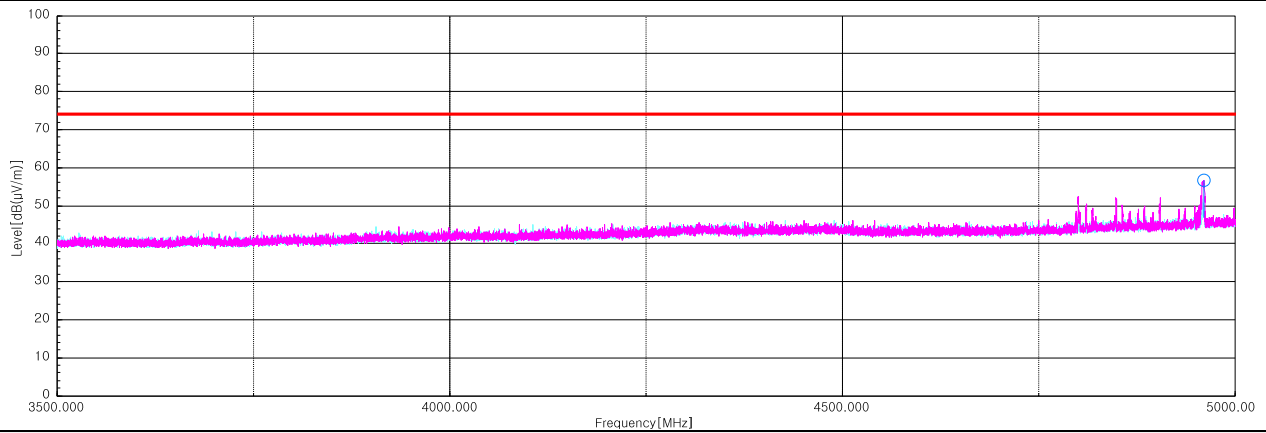
Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
4 958.74 ¹⁾	H	68.90	32.82	-45.16	-	56.56	74.00	17.44
7 423.45 ¹⁾	H	53.20	36.85	-43.44	-	46.61	74.00	27.39
11 408.20 ¹⁾	H	54.30	39.20	-43.03	-	50.47	74.00	23.53
17 060.45	V	56.50	38.12	-42.15	-	52.47	68.20	15.73
Average data								
4 958.74 ¹⁾	H	63.61	32.82	-45.16	0.42	51.69	54.00	2.31



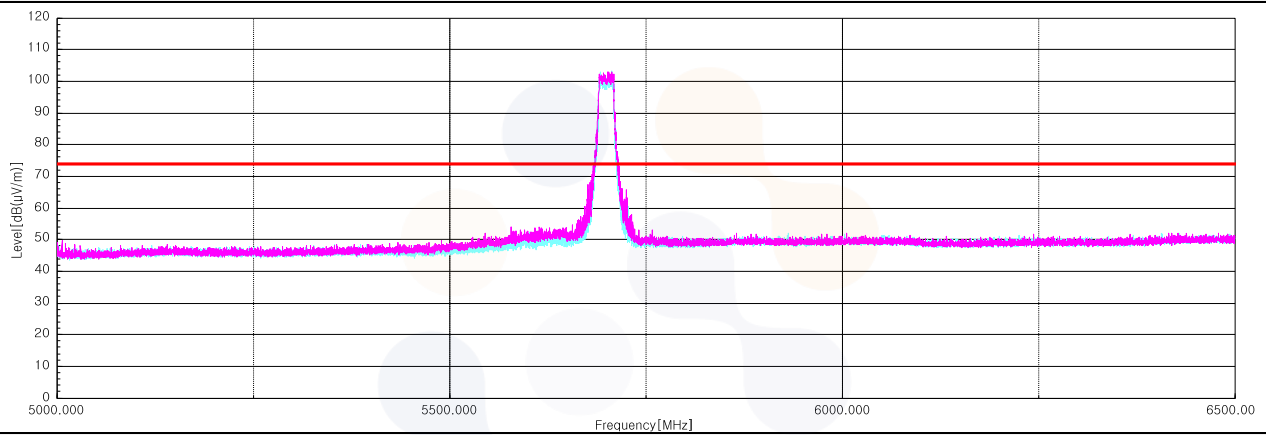
Horizontal/Vertical for 1 GHz ~ 3.5 GHz



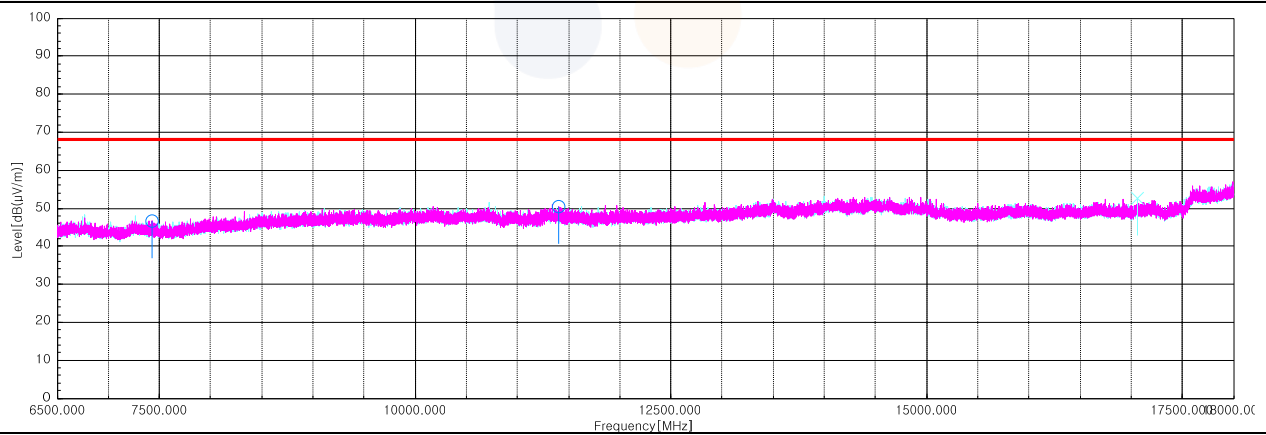
Horizontal/Vertical for 3.5 GHz ~ 5 GHz



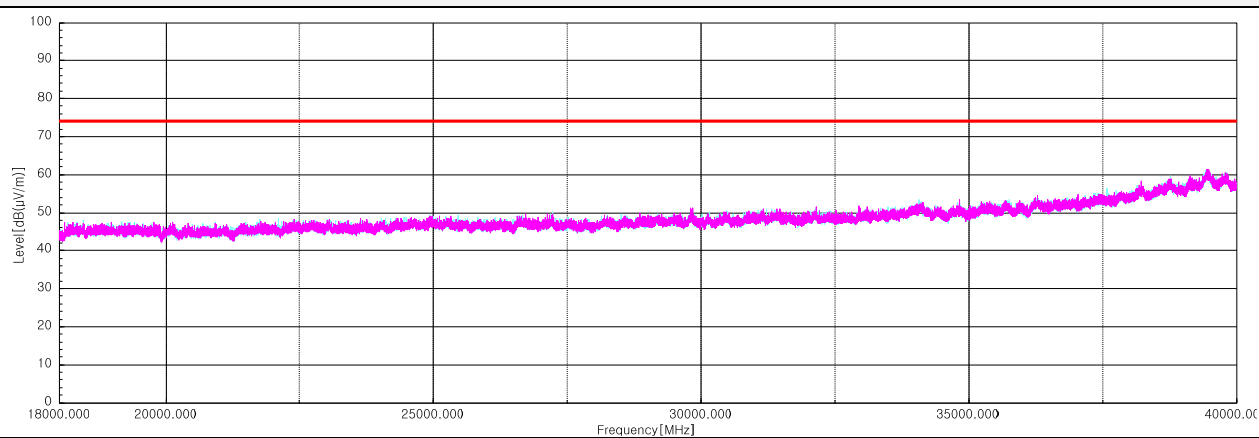
Horizontal/Vertical for 5 GHz ~ 6.5 GHz



Horizontal/Vertical for 6.5 GHz ~ 18 GHz



Horizontal/Vertical for 18 GHz ~ 40 GHz



8. Measurement equipment

Equipment Name	Manufacturer	Model No.	Serial No.	Next Cal. Date
Spectrum Analyzer	R&S	FSV30	100810	24.07.03
DC Power Supply	AGILENT	E3632A	KR75304571	24.04.27
Attenuator	API Inmet	40AH2W-10	16	24.05.03
Vector Signal Generator	R&S	SMBV100A	257566	24.07.04
Signal Generator	R&S	SMB100A	176206	24.01.19
Power Sensor	R&S	NRP-Z81	1137.9009.02-106224-tg	24.09.12
Attenuator	R&S	DNF Dämpfungsglied 10 dB in N-50 Ohm	0001	24.04.25
Spectrum Analyzer	R&S	FSVA40	101575	24.06.19
PSA Spectrum Analyzer	Agilent	E4440A	MY46186407	24.03.22
Broadband PreAmplifier	SCHWARZBECK	BBV9718D	57	24.03.17
Low Noise Amplifier	TESTEK	TK-PA18H	220124-L	24.10.12**
Low Noise Amplifier	TESTEK	TK-PA1840H	220133-L	24.10.17**
Amplifier	SONOMA INSTRUMENT	310N	421821	24.10.12**
Horn Antenna	SCHWARZBECK	BBHA9120D	2763	24.10.18**
Horn Antenna	SCHWARZBECK	BBHA9170	1267	24.10.16**
Horn Antenna	ETS-LINDGREN	3117	246058	24.03.23
Bilog Antenna	Teseq GmbH	CBL 6112D	63756	24.11.17
Loop Antenna	R&S	HFH2-Z2	100355	24.08.10
Band Reject Filter	Wainwright Instruments GmbH	WTRCJV8-5100-5850- 20-100-50SSK	62	24.10.13*
High Pass Filter	Wainwright Instruments GmbH	WHKX8-5655-6500- 18000-40SS	SN8	24.10.16**
TWO-LINE V - NETWORK	R&S	ENV216	101358	24.09.27*
EMI TEST RECEIVER	R&S	ESCI3	100001	24.08.18
Controller	INNCO SYSTEMS	CO3000	1441/54370322/P	-
Antenna Mast	INNCO SYSTEMS	MA4640-XP-ET	-	-
Turn Device	INNCO SYSTEMS	DS1200-S-1t	-	-

*This equipment was calibrated during the test period, and was used after calibration.

**This equipment was calibrated during the test period, and was used before calibration.

End of test report