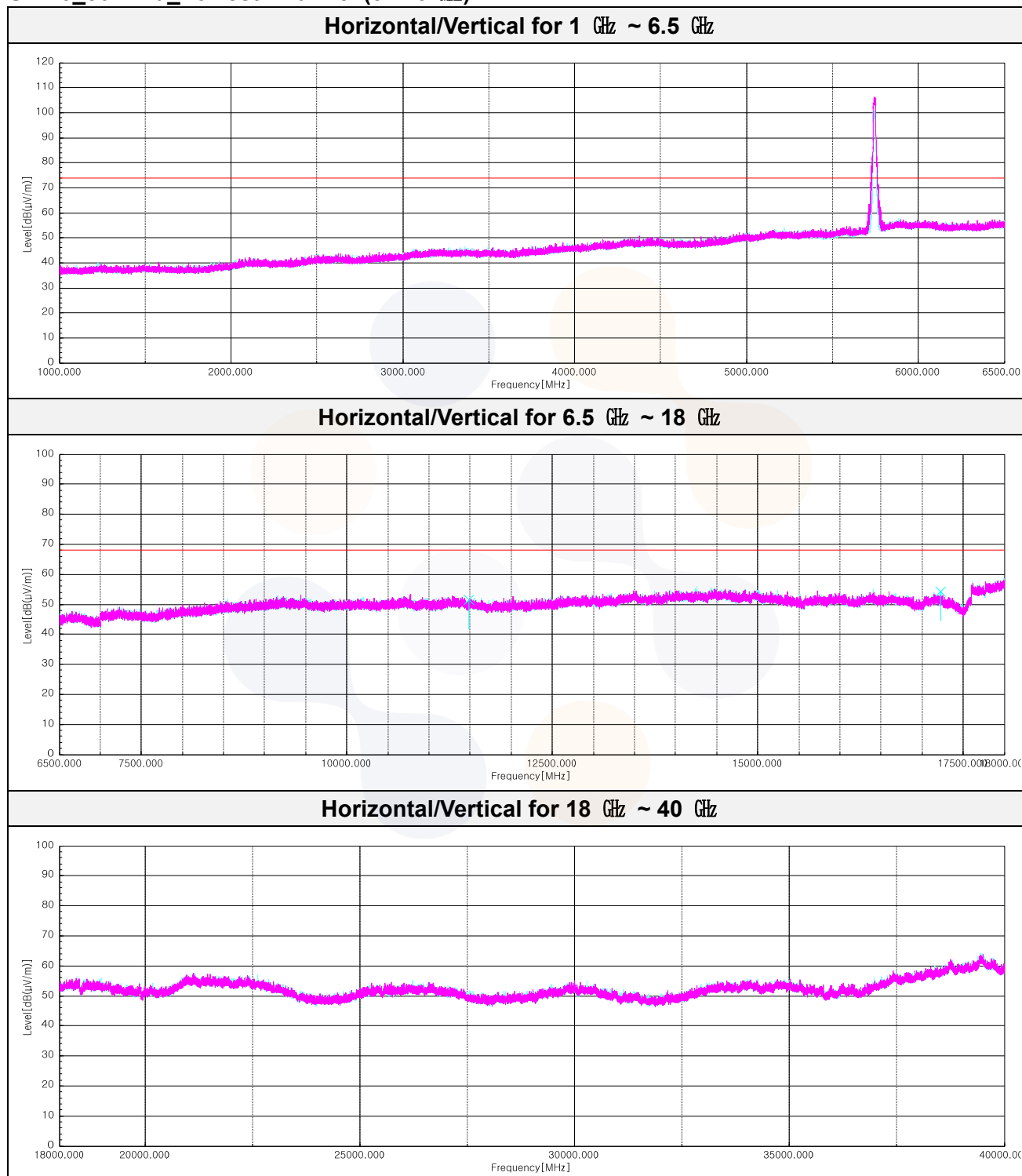


Plot of Harmonics and Spurious Emissions

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

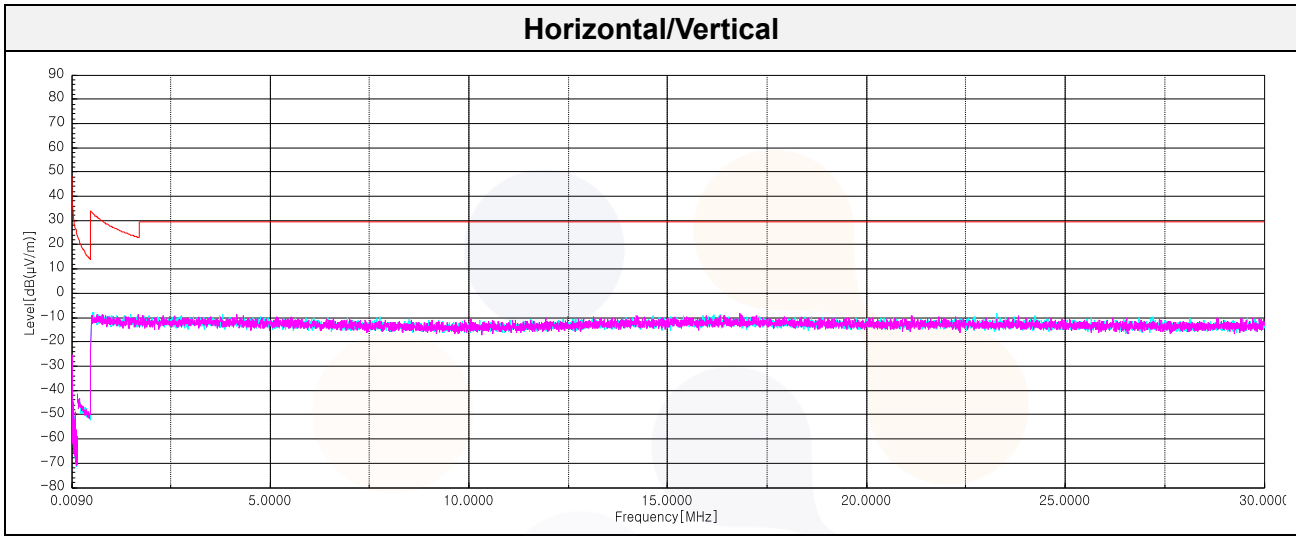
UNII 3_802.11a_Lowest Channel (5 745 MHz)



[DC 12 V]

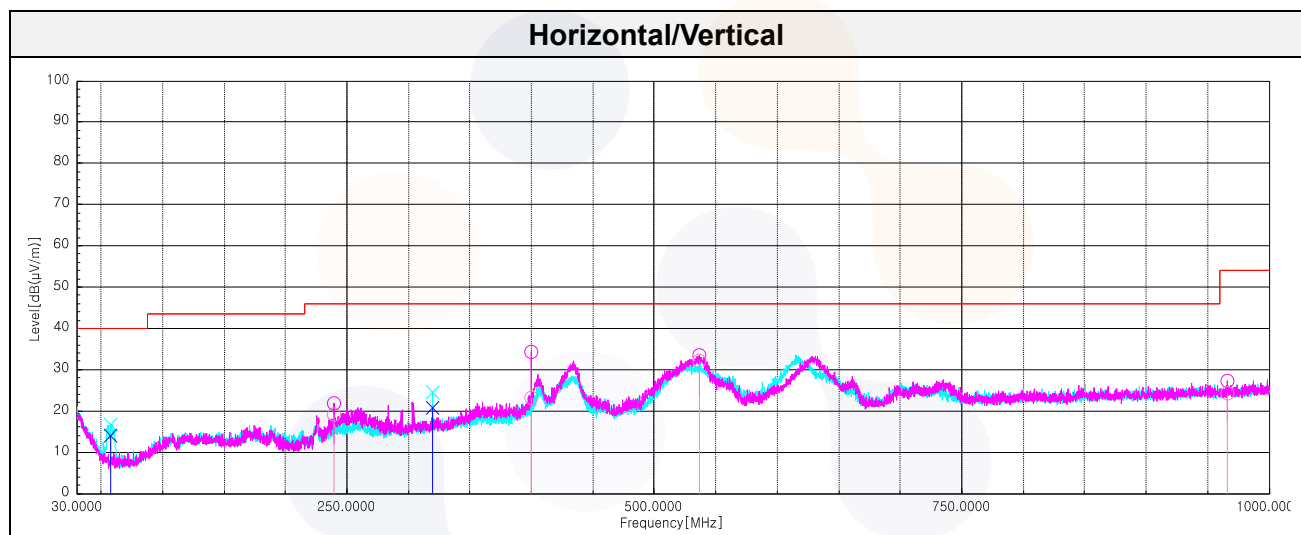
Test results (Below 30 MHz) – Worst case: 802.11a / UNII 1_5 240 MHz

Frequency	Pol.	Reading	Ant. Factor	Amp. + Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Quasi peak data								
No spurious emissions were detected within 20 dB of the limit.								



Test results (Below 1 000 MHz) – Worst case: 802.11a / UNII 1_5 240 MHz

Frequency	Pol.	Reading	Ant. Factor	Amp. + Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μ V))	(dB)	(dB)	(dB)	(dB(μ V/m))	(dB(μ V/m))	(dB)
Quasi peak data								
58.13	V	33.70	12.20	-31.88	-	14.02	40.00	25.98
239.64	H	32.50	17.25	-30.57	-	19.18	46.02	26.84
319.79	V	31.80	19.59	-30.58	-	20.81	46.02	25.21
399.93 ¹⁾	H	32.20	21.50	-30.63	-	23.07	46.02	22.95
536.22	H	38.80	23.61	-30.27	-	32.14	46.02	13.88
966.05 ¹⁾	H	24.70	26.90	-27.33	-	24.27	54.00	29.73



Test results (Above 1 000 MHz)

UNII 1

802.11a_Lowest Channel (5 180 MHz)

Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
5 149.89 ¹⁾	H	50.40	33.30	-25.64	-	58.06	74.00	15.94
10 352.12	H	55.50	39.00	-42.83	-	51.67	68.20	16.53
15 570.43 ¹⁾	V	55.60	38.16	-39.83	-	53.93	74.00	20.07
Average Data								
5 149.89 ¹⁾	H	36.51	33.30	-25.64	-	44.17	54.00	9.83

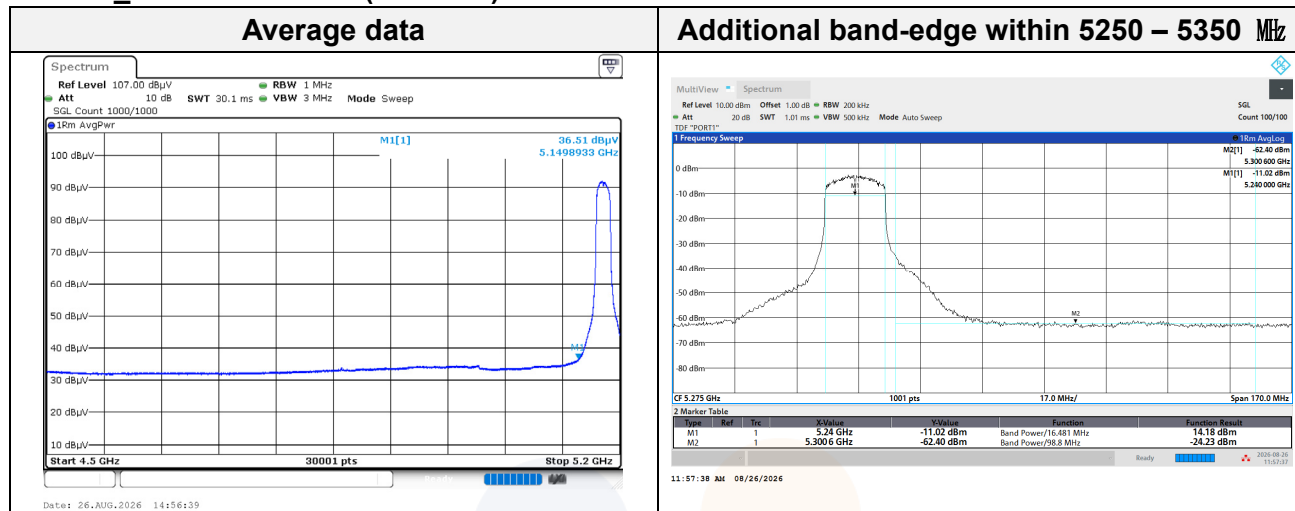
802.11a_Middle Channel (5 200 MHz)

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								
10 395.82	V	55.80	38.91	-42.76	-	51.95	68.20	16.25
15 598.03 ¹⁾	V	55.20	38.10	-39.81	-	53.49	74.00	20.51
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

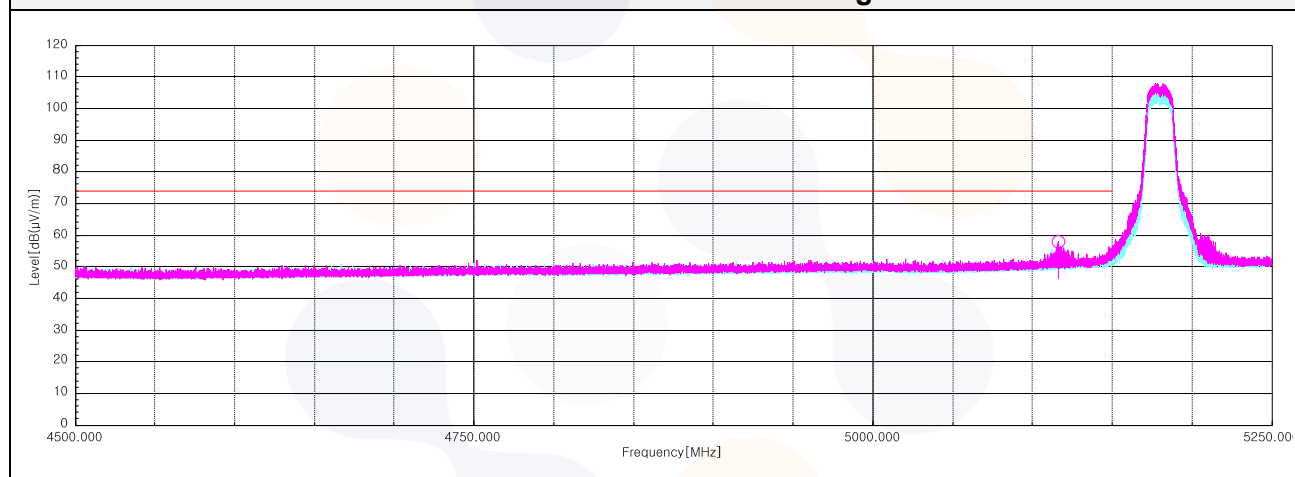
802.11a_Highest Channel (5 240 MHz)

Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
10 487.05	H	55.90	39.00	-42.60	-	52.30	68.20	15.90
15 722.16 ¹⁾	V	56.80	38.00	-39.71	-	55.09	74.00	18.91
Average Data								
15 722.16 ¹⁾	V	44.75	38.00	-39.71	-	43.04	54.00	10.96

802.11a_Lowest Channel (5 180 MHz)



Horizontal/Vertical for Band-edge



Notes:

1. V1: Upper-edge of the 26 dB bandwidth
2. V2: Band-edge at 5350 MHz

802.11n_HT20_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								
5 149.75 ¹⁾	H	49.70	33.30	-25.65	-	57.35	74.00	16.65
10 366.68	V	55.70	38.97	-42.80	-	51.87	68.20	16.33
15 537.85 ¹⁾	H	54.90	38.15	-39.85	-	53.20	74.00	20.80
Average Data								
5 149.75 ¹⁾	H	35.92	33.30	-25.65	-	43.57	54.00	10.43

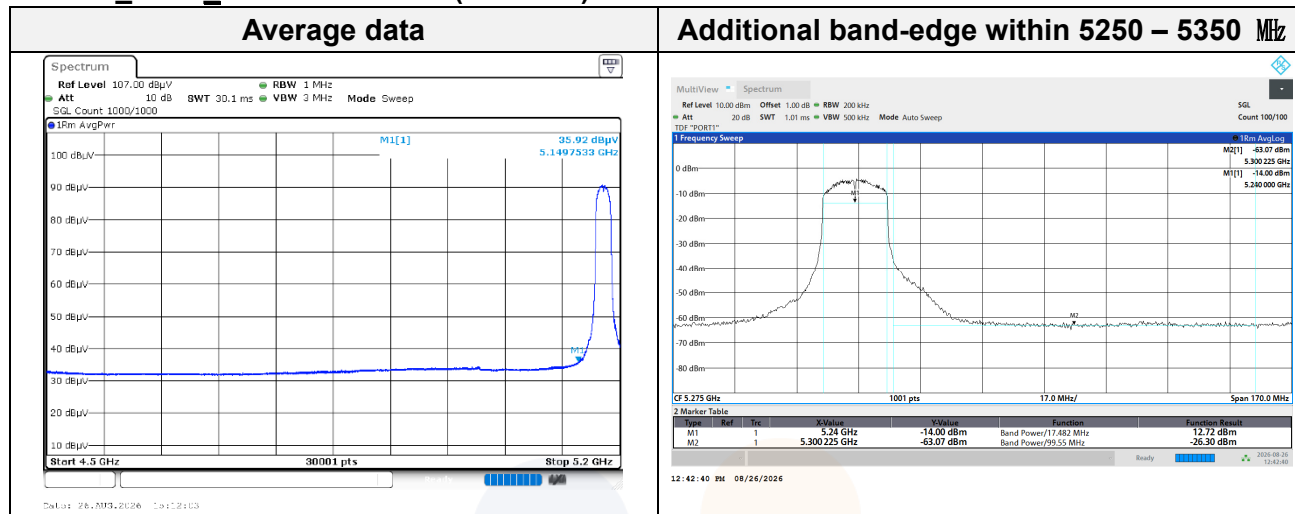
802.11n_HT20_Middle Channel (5 200 MHz)

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								
10 412.68	H	56.40	39.00	-42.73	-	52.67	68.20	15.53
15 598.42 ¹⁾	V	55.30	38.10	-39.81	-	53.59	74.00	20.41
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

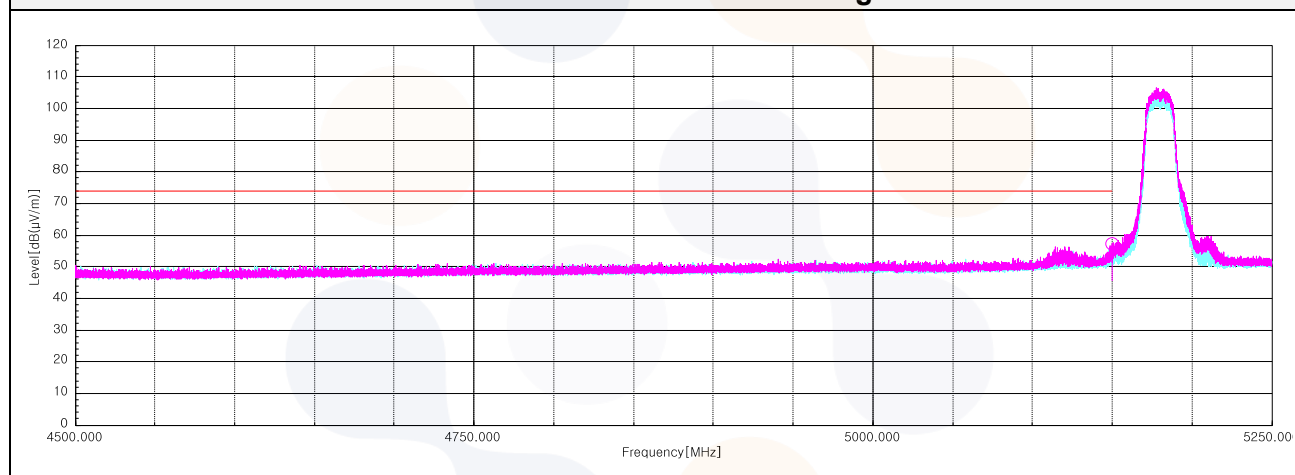
802.11n_HT20_Highest Channel (5 240 MHz)

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								
10 487.05	V	56.10	39.00	-42.60	-	52.50	68.20	15.70
15 726.45 ¹⁾	H	55.40	38.00	-39.71	-	53.69	74.00	20.31
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

802.11n_HT20_Lowest Channel (5 180 MHz)



Horizontal/Vertical for Band-edge



Notes:

1. V1: Upper-edge of the 26 dB bandwidth
2. V2: Band-edge at 5350 MHz

802.11n_HT40_Lowest Channel (5 190 MHz)

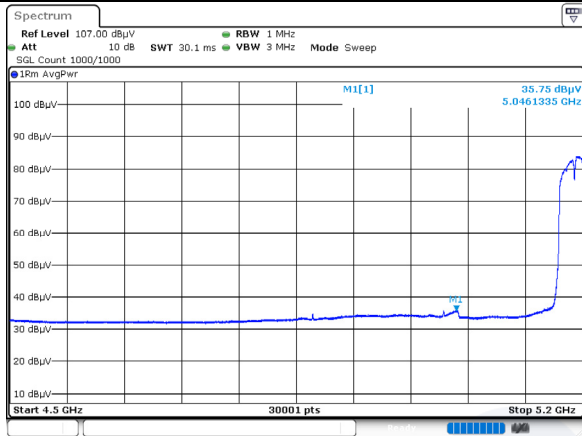
Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
5 046.13 ¹⁾	H	50.50	33.48	-26.31	-	57.67	74.00	16.33
10 391.60	H	55.70	38.92	-42.76	-	51.86	68.20	16.34
15 569.72 ¹⁾	V	55.90	38.16	-39.83	-	54.23	74.00	19.77
Average Data								
5 046.13 ¹⁾	H	35.75	33.48	-26.31	-	42.92	54.00	11.08
15 569.72 ¹⁾	V	44.20	38.16	-39.83	-	42.53	54.00	11.47

802.11n_HT40_Highest Channel (5 230 MHz)

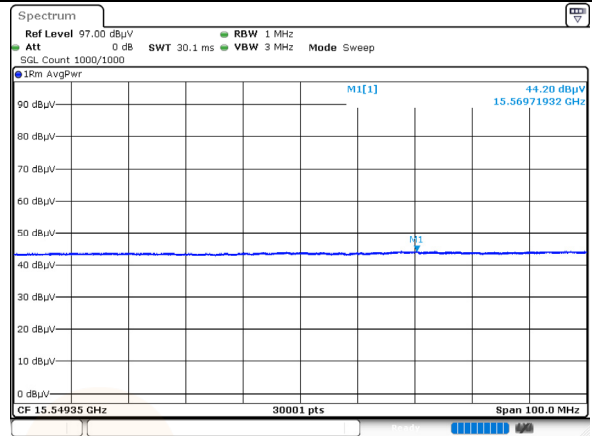
Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
10 481.30	V	55.70	39.00	-42.61	-	52.09	68.20	16.11
15 727.22 ¹⁾	V	54.90	38.00	-39.71	-	53.19	74.00	20.81
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

802.11n_HT40_Lowest Channel (5 190 MHz)

Average data

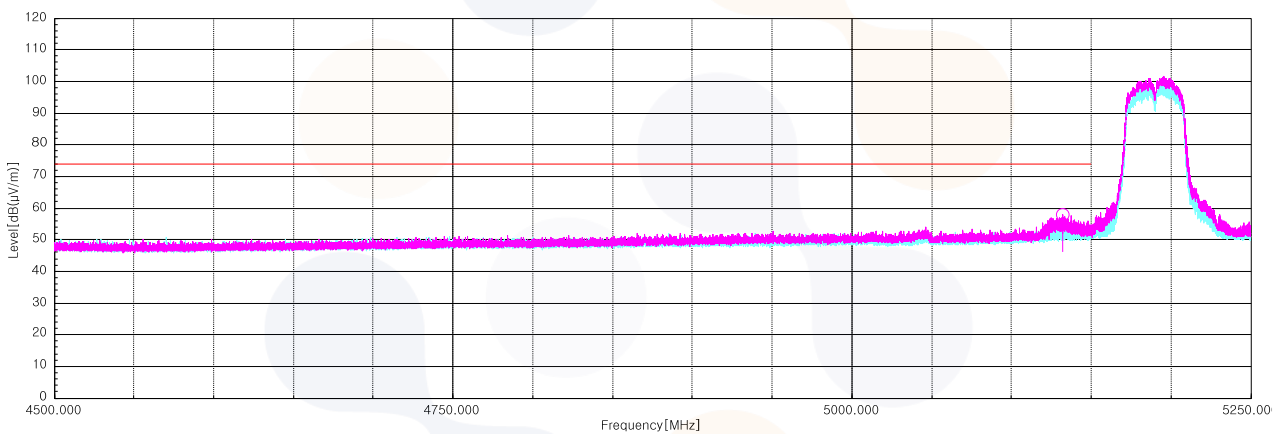


Date: 26.AUG.2026 15:22:52

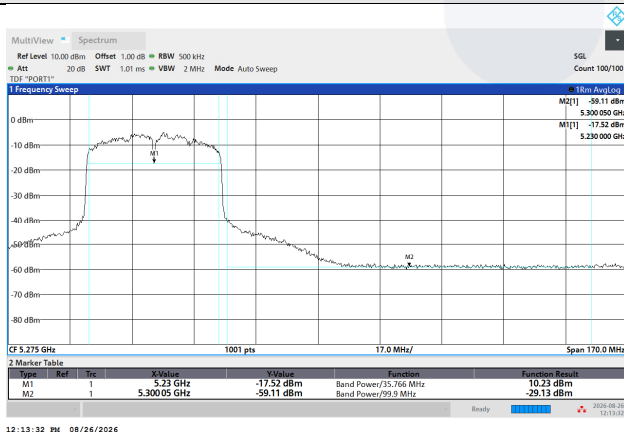


Date: 26.AUG.2026 10:35:40

Horizontal/Vertical for Band-edge



Additional band-edge within 5250 – 5350 MHz



12:13:32 PM 08/26/2026

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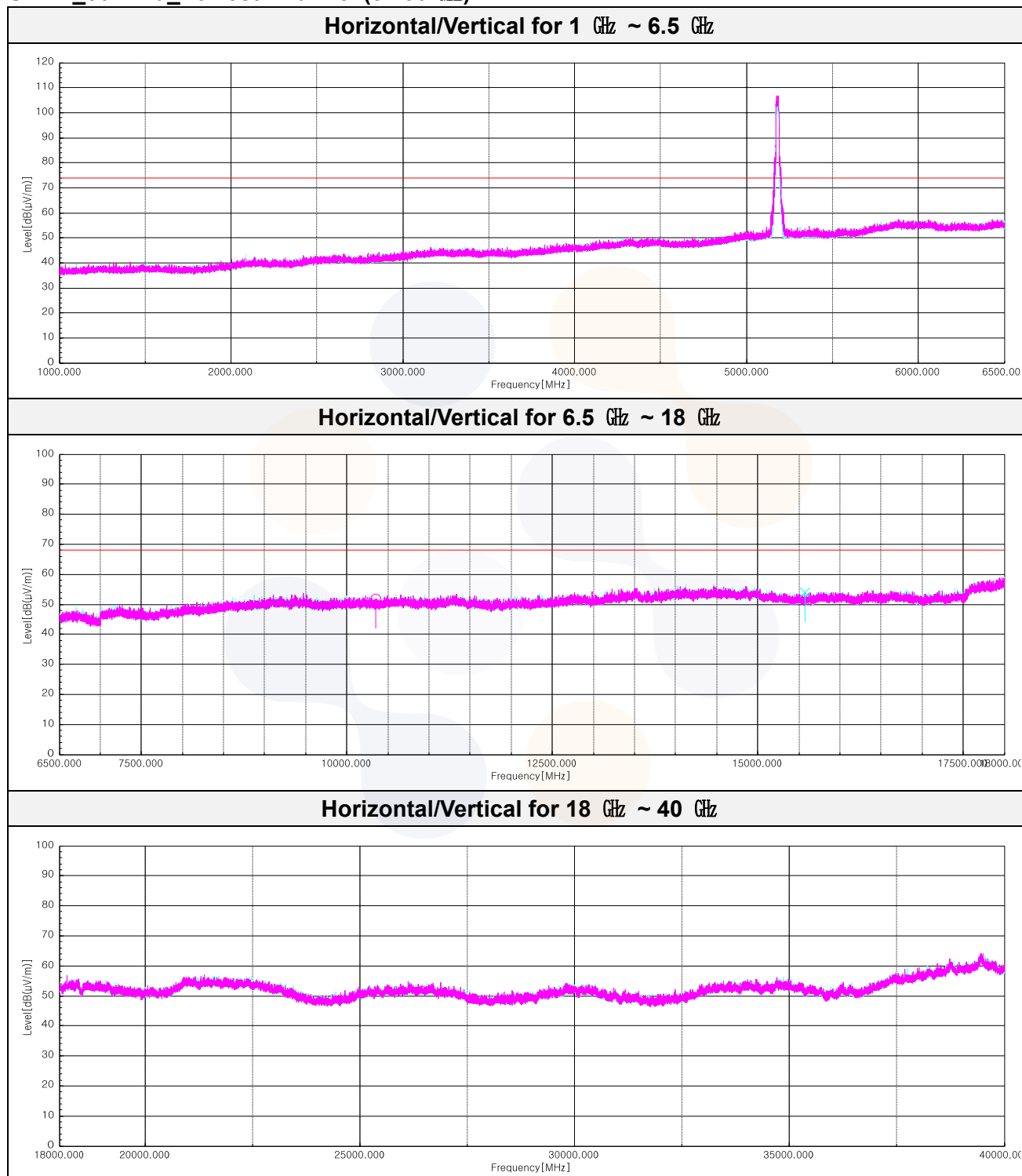
Notes:

1. V1: Upper-edge of the 26 dB bandwidth
2. V2: Band-edge at 5350 MHz

Plot of Harmonics and Spurious Emissions

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

UNII 1_802.11a_Lowest Channel (5 180 MHz)



UNII 2A

802.11a_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								
10 491.65	H	56.40	39.00	-42.59	-	52.81	68.20	15.39
15 808.59 ¹⁾	V	55.80	38.00	-39.66	-	54.14	74.00	19.86
Average Data								
15 808.59 ¹⁾	V	44.78	38.00	-39.66	-	43.12	54.00	10.88

802.11a_Middle Channel (5 280 MHz)

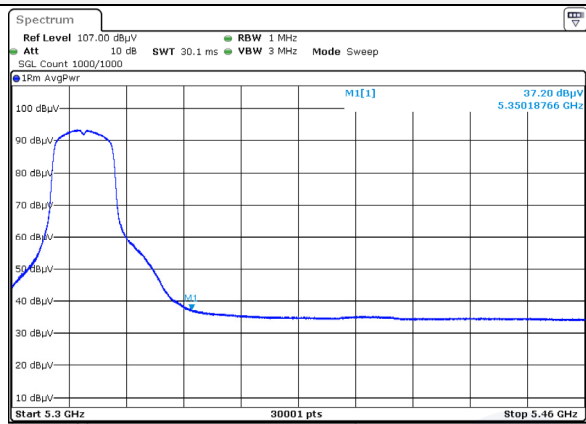
Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μ V))	(dB)	(dB)	(dB)	(dB(μ V/m))	(dB(μ V/m))	(dB)
Peak data								
10 558.73	V	56.10	39.12	-42.65	-	52.57	68.20	15.63
15 809.97 ¹⁾	H	56.00	38.00	-39.66	-	54.34	74.00	19.66
Average Data								
15 809.97 ¹⁾	H	44.73	38.00	-39.66	-	43.07	54.00	10.93

802.11a_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								
5 350.19 ¹⁾	H	52.80	33.00	-24.86	-	60.94	74.00	13.06
10 618.15 ¹⁾	H	56.80	39.10	-42.73	-	53.17	74.00	20.83
15 969.48 ¹⁾	V	54.80	38.10	-39.58	-	53.32	74.00	20.68
Average Data								
5 350.19 ¹⁾	H	37.20	33.00	-24.86	-	45.34	54.00	8.66

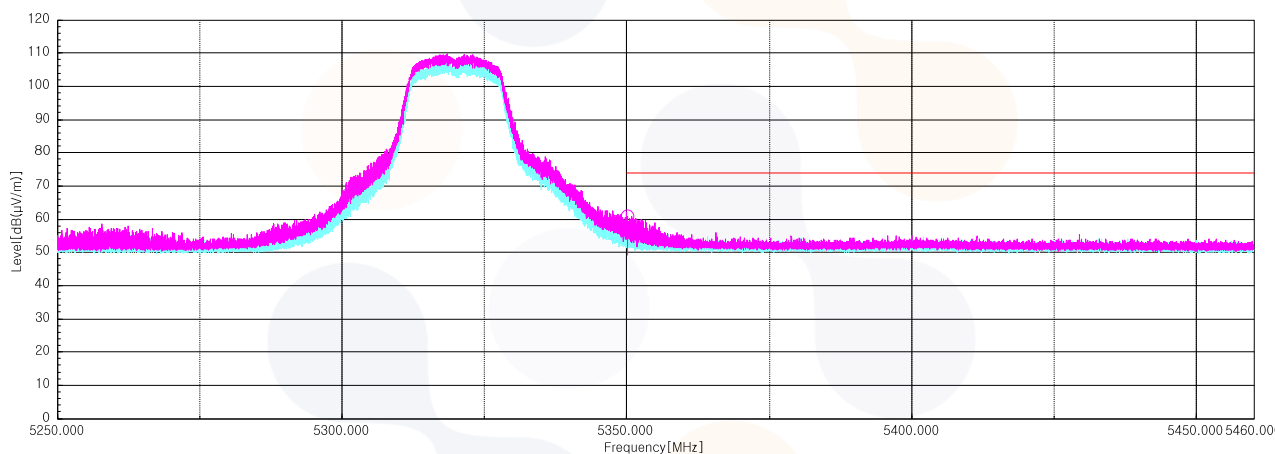
802.11a_Highest Channel (5 320 MHz)

Average data



Blank

Horizontal/Vertical for Band-edge



802.11n_HT20_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								
10 517.33	H	56.20	39.00	-42.60	-	52.60	68.20	15.60
15 790.28 ¹⁾	V	55.80	38.00	-39.67	-	54.13	74.00	19.87
Average Data								
15 790.28 ¹⁾	V	44.55	38.00	-39.67	-	42.88	54.00	11.12

802.11n_HT20_Middle Channel (5 280 MHz)

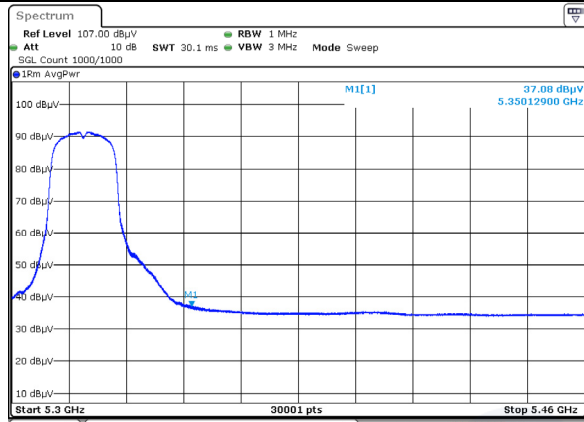
Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
10 544.17	V	56.00	39.00	-42.63	-	52.37	68.20	15.83
15 902.10 ¹⁾	H	56.00	38.10	-39.61	-	54.49	74.00	19.51
Average Data								
15 902.10 ¹⁾	H	44.71	38.10	-39.61	-	43.20	54.00	10.80

802.11n_HT20_Highest Channel (5 320 MHz)

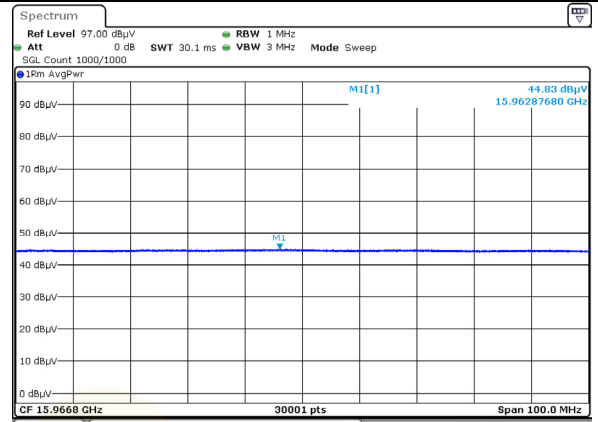
Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
5 350.13 ¹⁾	H	53.90	33.00	-24.86	-	62.04	74.00	11.96
10 638.85 ¹⁾	V	56.20	39.10	-42.75	-	52.55	74.00	21.45
15 962.88 ¹⁾	V	56.70	38.10	-39.58	-	55.22	74.00	18.78
Average Data								
5 350.13 ¹⁾	H	37.08	33.00	-24.86	-	44.92	54.00	8.78
15 962.88 ¹⁾	V	44.83	38.10	-39.58	-	43.35	54.00	10.65

802.11n_HT20_Highest Channel (5 320 MHz)

Average data

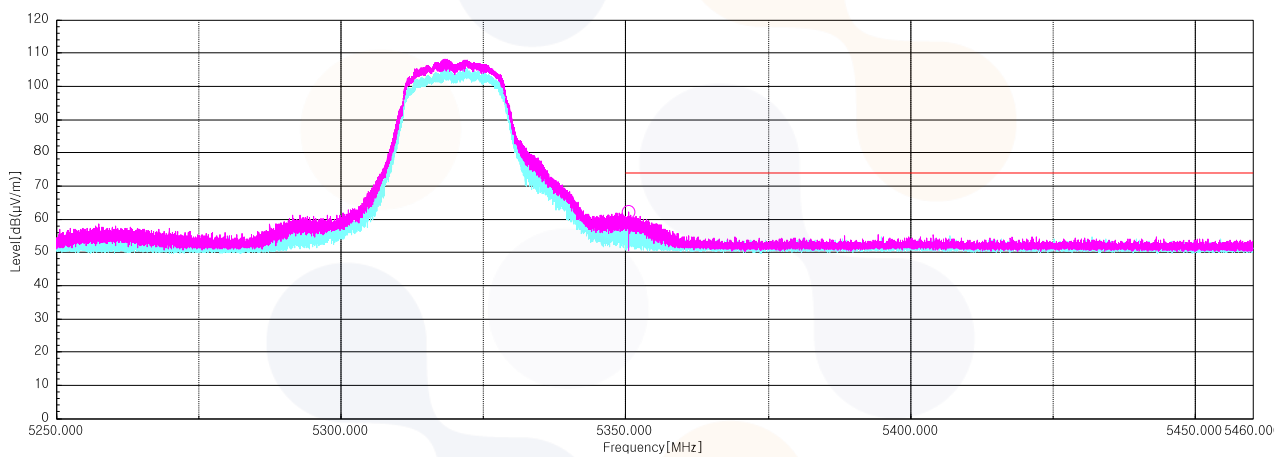


Date: 26.AUG.2026 17:03:30



Date: 26.AUG.2026 13:15:53

Horizontal/Vertical for Band-edge



802.11n_HT40_Lowest Channel (5 270 MHz)

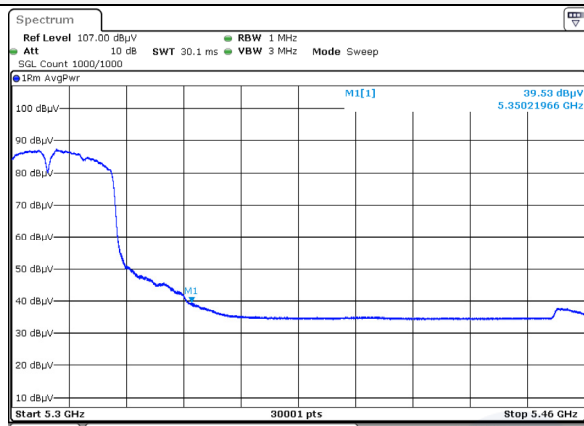
Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
10 520.78	H	56.40	39.00	-42.61	-	52.79	68.20	15.41
15 829.13 ¹⁾	V	56.30	38.00	-39.65	-	54.65	74.00	19.35
Average Data								
15 829.13 ¹⁾	V	44.61	38.00	-39.65	-	42.96	54.00	11.04

802.11n_HT40_Highest Channel (5 310 MHz)

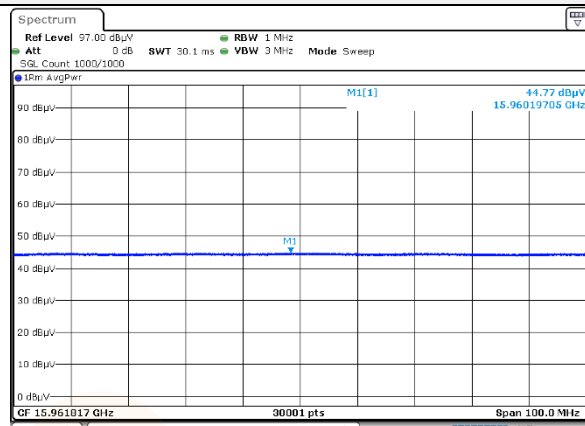
Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
5 350.22 ¹⁾	H	52.80	33.00	-24.86	-	60.94	74.00	13.06
10 656.87 ¹⁾	V	57.50	39.21	-42.77	-	53.94	74.00	20.06
15 960.20 ¹⁾	V	55.70	38.10	-39.58	-	54.22	74.00	19.78
Average Data								
5 350.22 ¹⁾	H	39.53	33.00	-24.86	-	47.67	54.00	6.33
15 960.20 ¹⁾	V	44.77	38.10	-39.58	-	43.29	54.00	10.71

802.11n_HT40_Highest Channel (5 310 MHz)

Average data

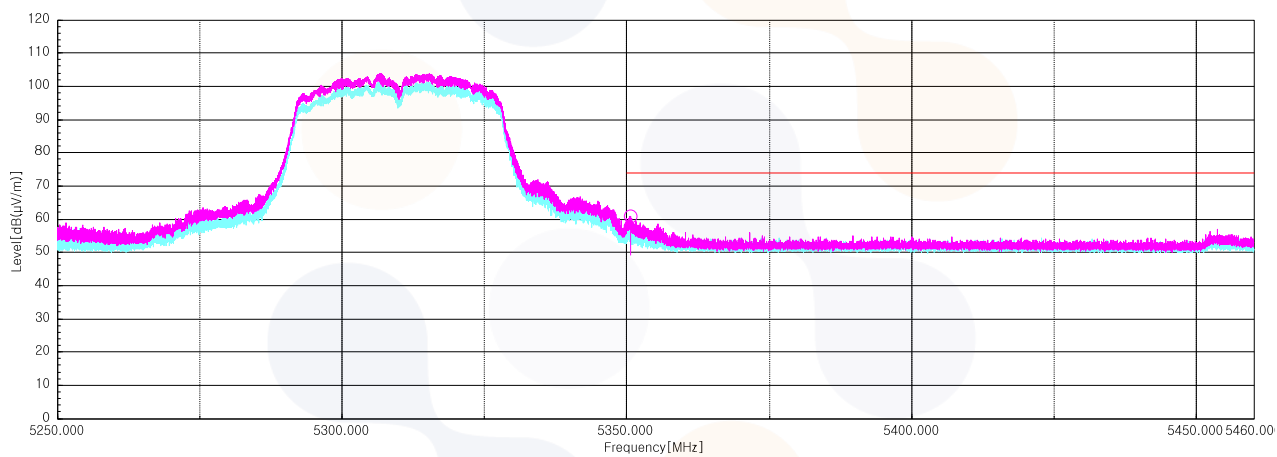


Date: 26.AUG.2026 21:48:56



Date: 29.AUG.2026 13:37:43

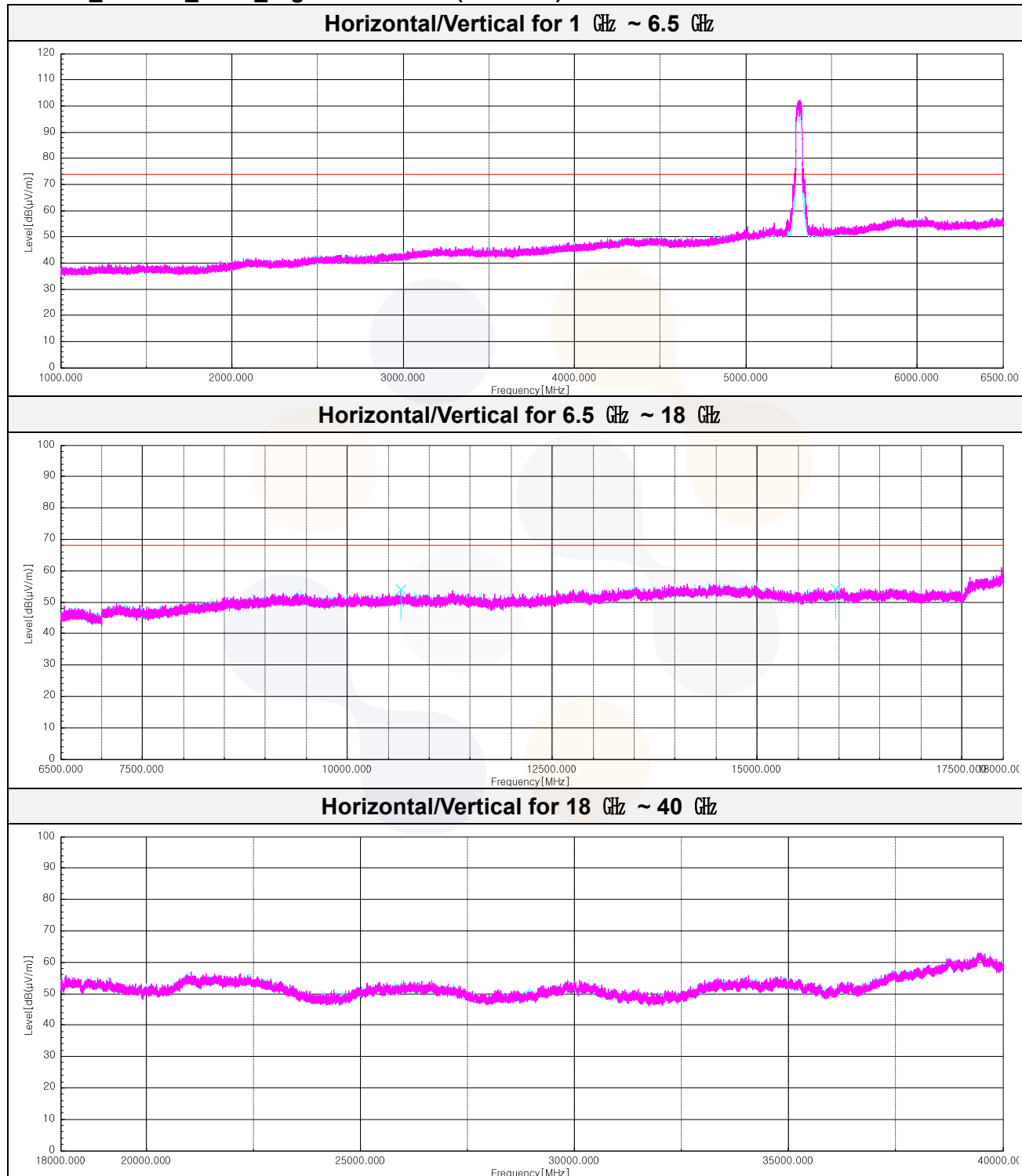
Horizontal/Vertical for Band-edge



Plot of Harmonics and Spurious Emissions

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

UNII 2A_802.11n_HT40_Highest Channel (5 310 MHz)



UNII 2C

802.11a_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								
5 459.25 ¹⁾	H	49.80	32.88	-24.71	-	57.97	74.00	16.03
11 003.95 ¹⁾	V	56.00	38.99	-42.13	-	52.86	74.00	21.14
16 497.33	V	63.80	38.19	-39.69	-	62.30	68.20	5.90
Average Data								
5 459.25 ¹⁾	H	35.03	32.88	-24.71	-	43.20	54.00	10.80

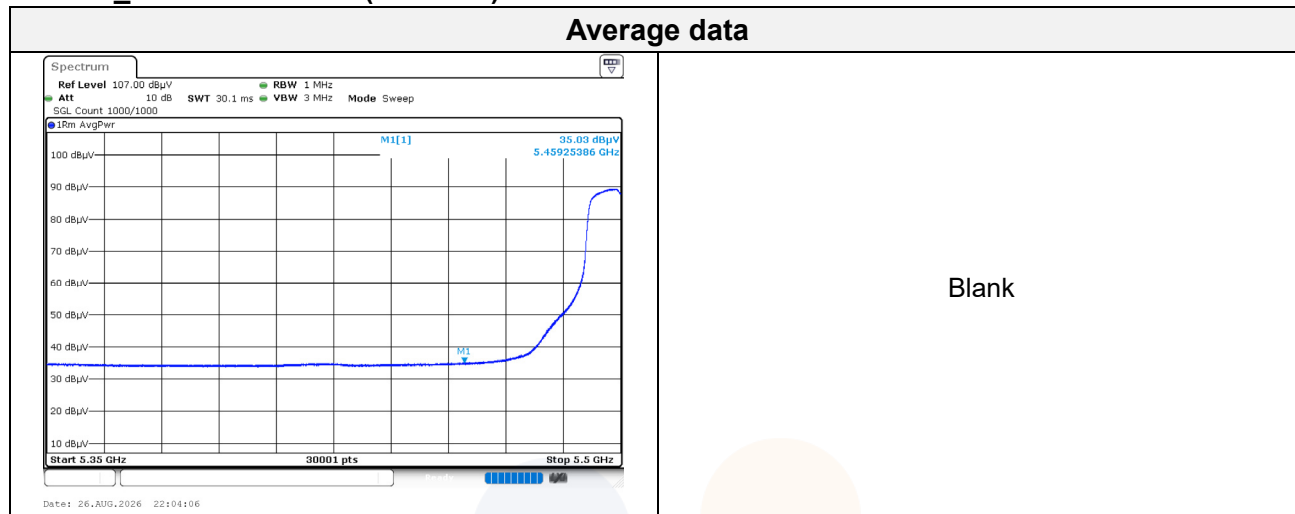
802.11a_Middle Channel (5 600 MHz)

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								
11 247.97 ¹⁾	H	55.90	39.00	-41.57	-	53.33	74.00	20.67
16 795.18	V	63.40	37.81	-40.15	-	61.06	68.20	7.14
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

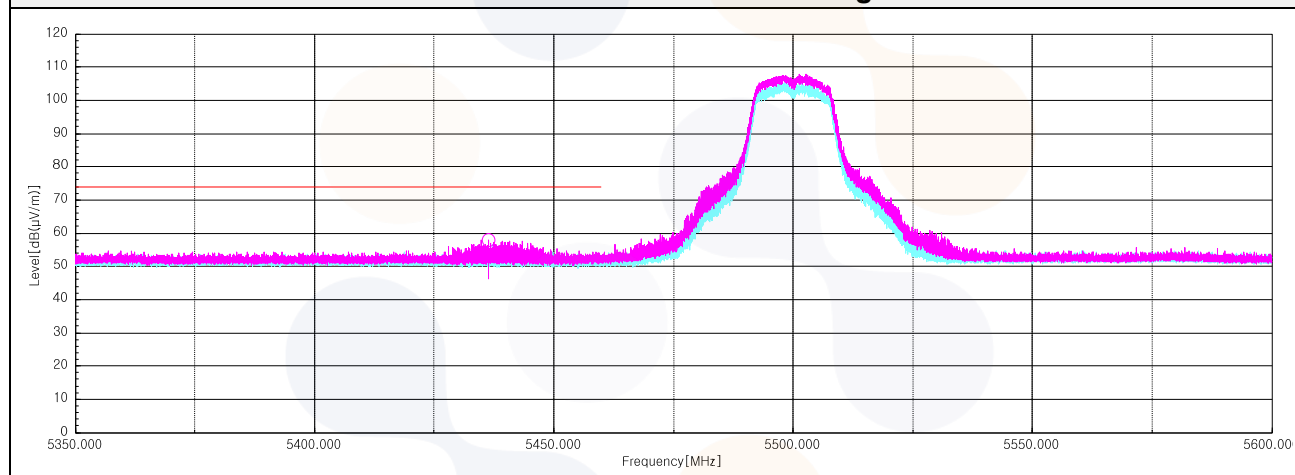
802.11a_Highest Channel (5 700 MHz)

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								
5 726.13	H	52.20	33.66	-24.03	-	61.83	68.20	6.37
11 402.83 ¹⁾	H	55.80	39.10	-41.41	-	53.49	74.00	20.51
17 103.77	V	58.80	37.91	-40.61	-	56.10	68.20	12.10
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

802.11a_Lowest Channel (5 500 MHz)

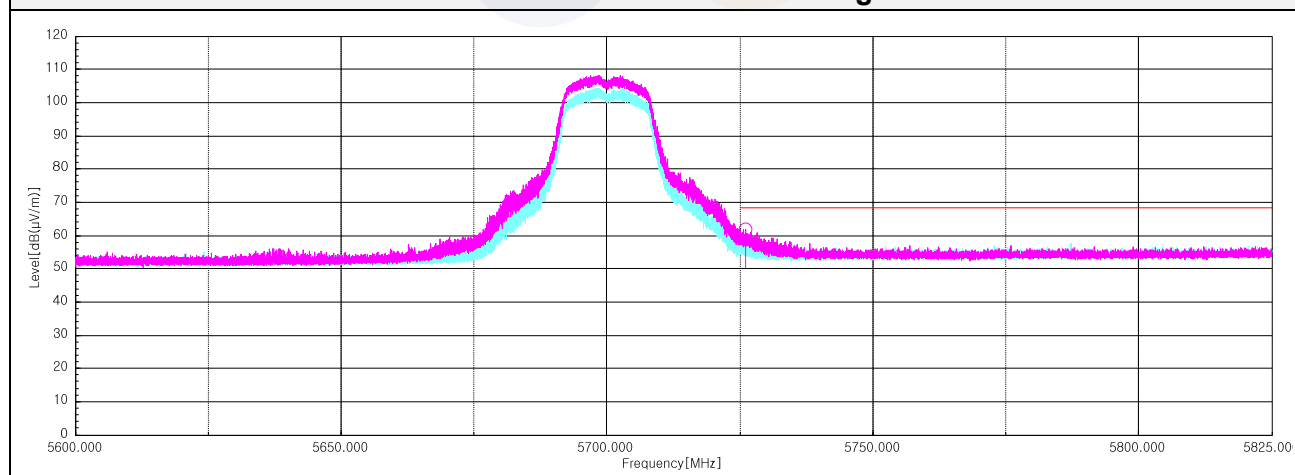


Horizontal/Vertical for Band-edge



802.11a_Highest Channel (5 700 MHz)

Horizontal/Vertical for Band-edge



802.11n_HT20_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								
5 422.38 ¹⁾	H	51.00	33.00	-24.76	-	59.24	74.00	14.76
10 981.55 ¹⁾	H	55.20	39.04	-42.20	-	52.04	74.00	21.96
16 503.08	V	61.40	38.10	-39.69	-	59.81	68.20	8.39
Average Data								
5 422.38 ¹⁾	H	34.02	33.00	-24.76	-	42.26	54.00	11.74

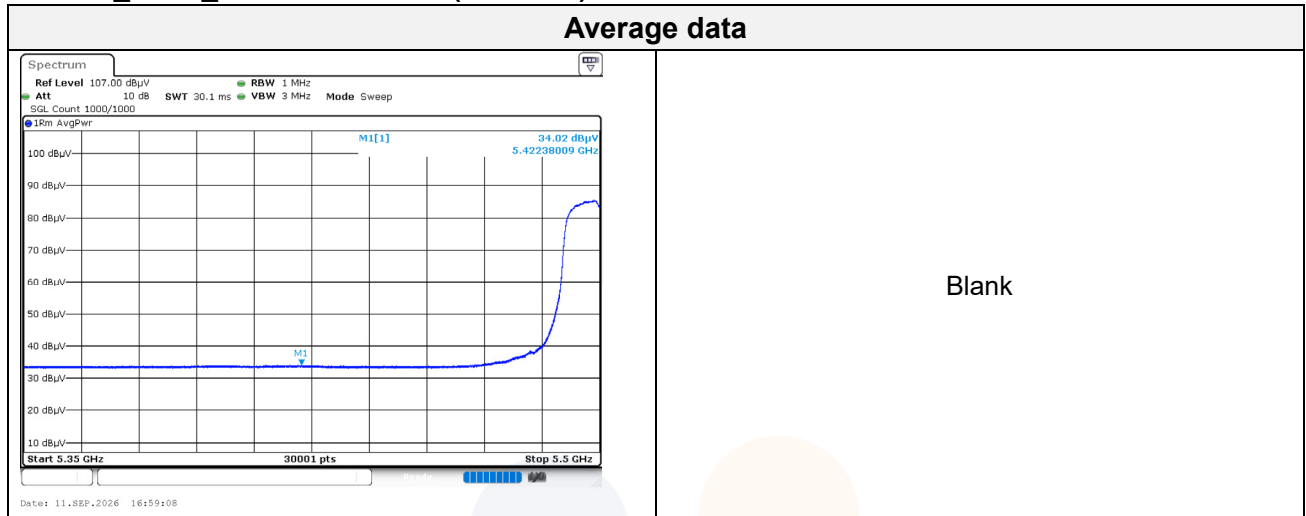
802.11n_HT20_Middle Channel (5 600 MHz)

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								
11 202.35 ¹⁾	H	55.20	39.00	-41.68	-	52.52	74.00	21.48
16 806.30	V	61.90	37.90	-40.20	-	59.60	68.20	8.60
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

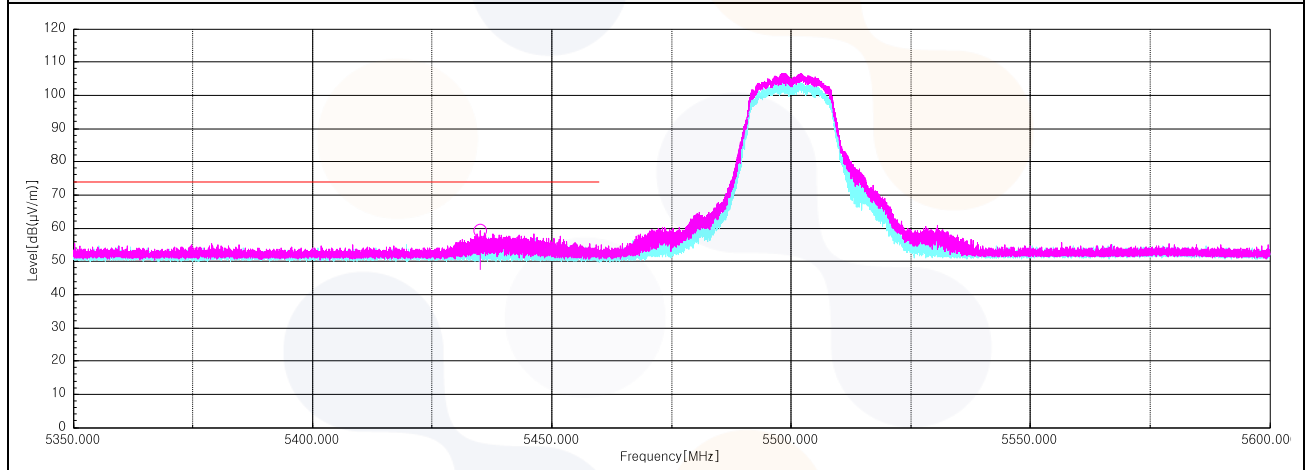
802.11n_HT20_Highest Channel (5 700 MHz)

Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
5 728.49	H	50.50	33.67	-24.03	-	60.14	68.20	8.06
11 393.25 ¹⁾	V	55.50	39.10	-41.42	-	53.18	74.00	20.82
17 103.00	H	57.00	37.91	-40.62	-	54.29	68.20	13.91
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

802.11n_HT20_Lowest Channel (5 500 MHz)

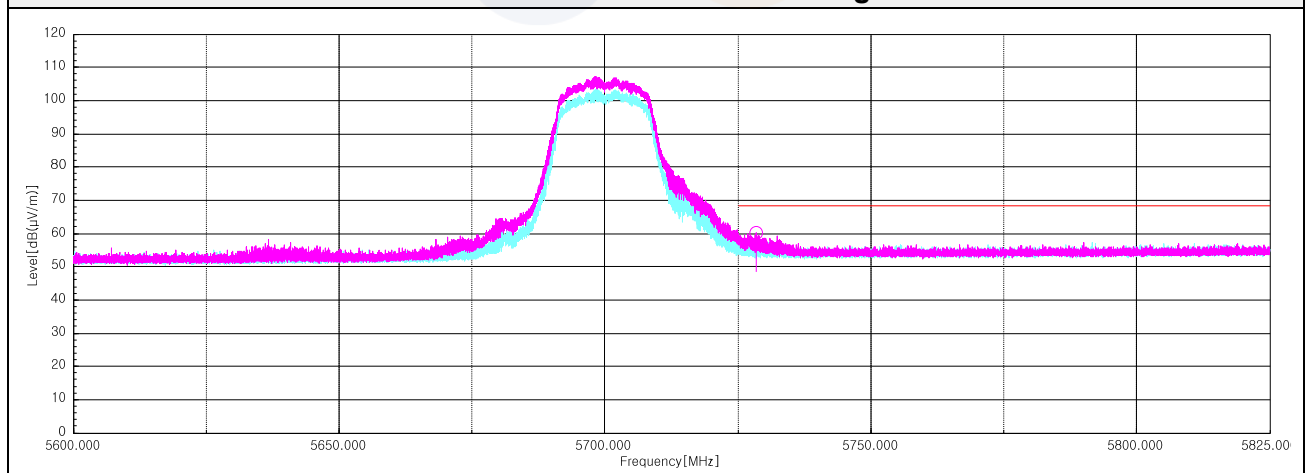


Horizontal/Vertical for Band-edge



802.11n_HT20_Highest Channel (5 700 MHz)

Horizontal/Vertical for Band-edge



802.11n_HT40_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								
5 366.16 ¹⁾	H	51.20	33.00	-24.84	-	59.36	74.00	14.64
11 052.47 ¹⁾	H	54.60	39.00	-42.02	-	51.58	74.00	22.42
16 568.25	H	55.50	38.10	-39.76	-	53.84	68.20	14.36
Average Data								
5 366.16 ¹⁾	H	39.39	33.00	-24.84	-	47.55	54.00	6.45

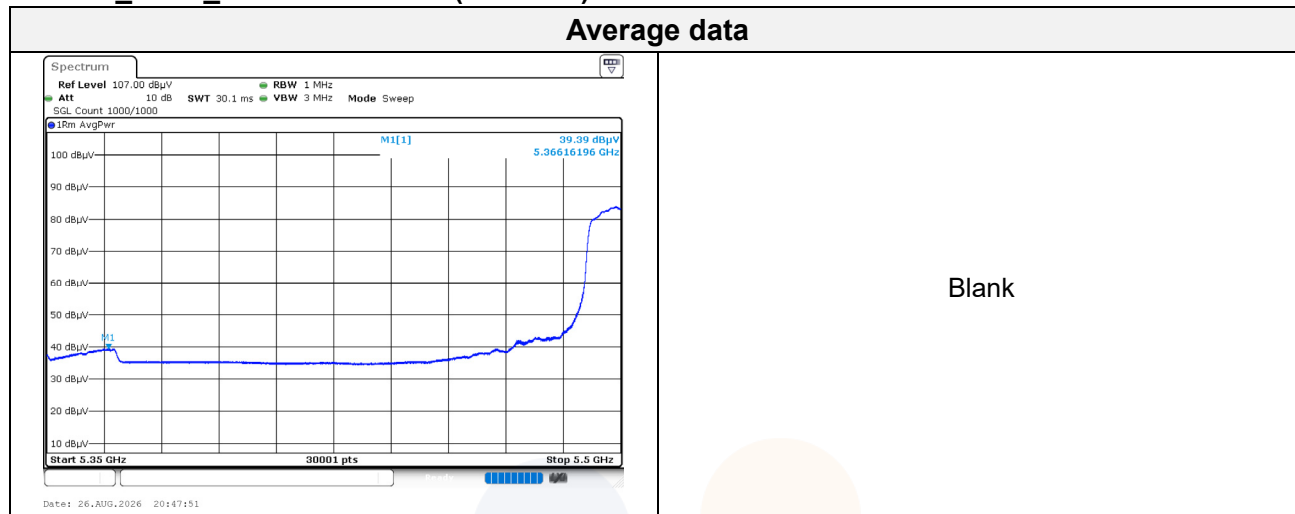
802.11n_HT40_Middle Channel (5 590 MHz)

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								
11 177.05 ¹⁾	H	56.30	39.00	-41.74	-	53.56	74.00	20.44
16 815.12	H	56.20	37.90	-40.24	-	53.86	68.20	14.34
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

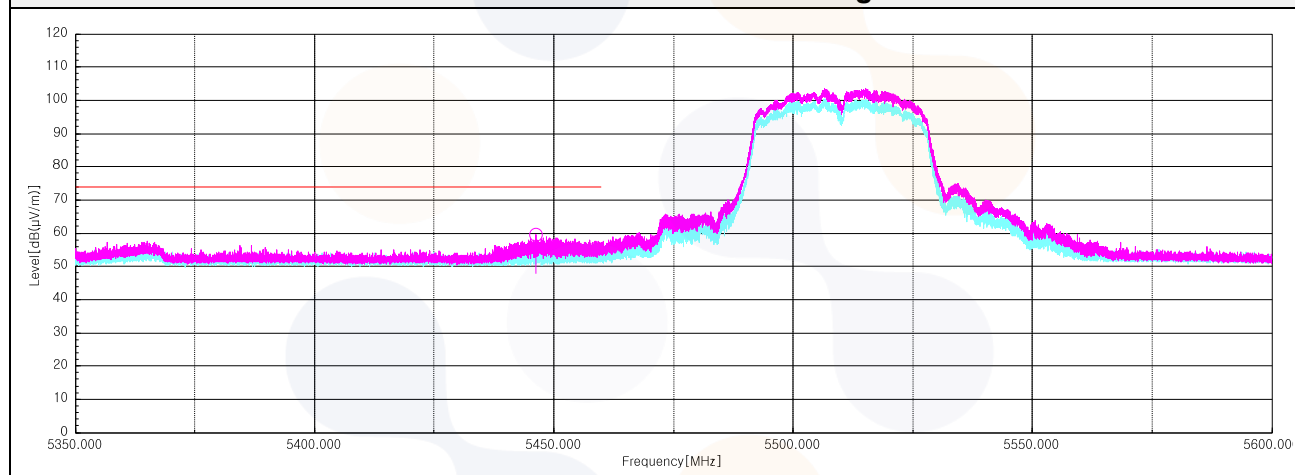
802.11n_HT40_Highest Channel (5 670 MHz)

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								
5 725.53	H	47.90	33.65	-24.04	-	57.51	68.20	10.69
11 349.93 ¹⁾	H	55.80	39.10	-41.47	-	53.43	74.00	20.57
17 106.45	V	58.50	37.91	-40.60	-	55.81	68.20	12.39
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

802.11n_HT40_Lowest Channel (5 510 MHz)

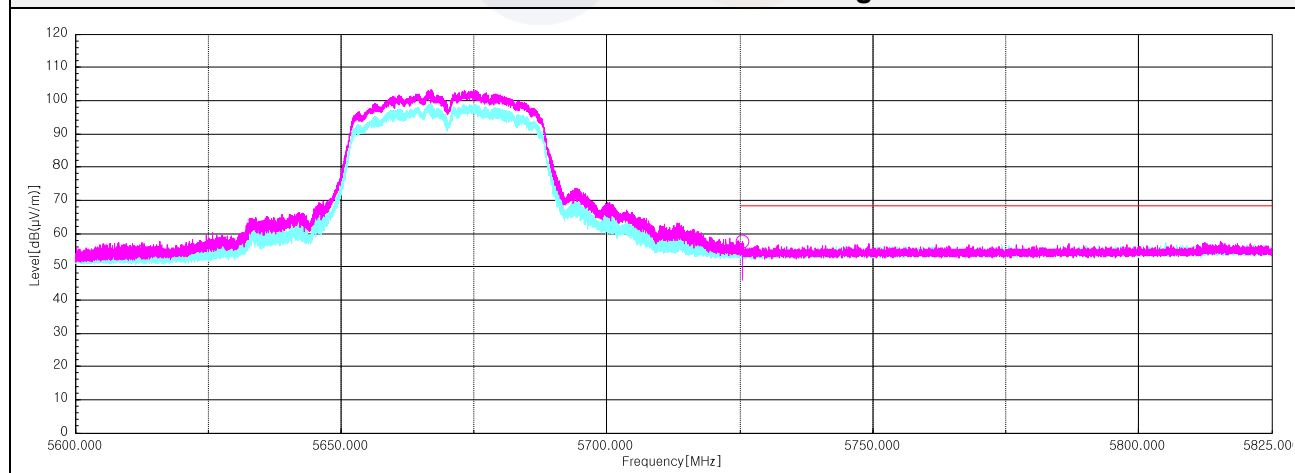


Horizontal/Vertical for Band-edge



802.11n_HT40_Highest Channel (5 670 MHz)

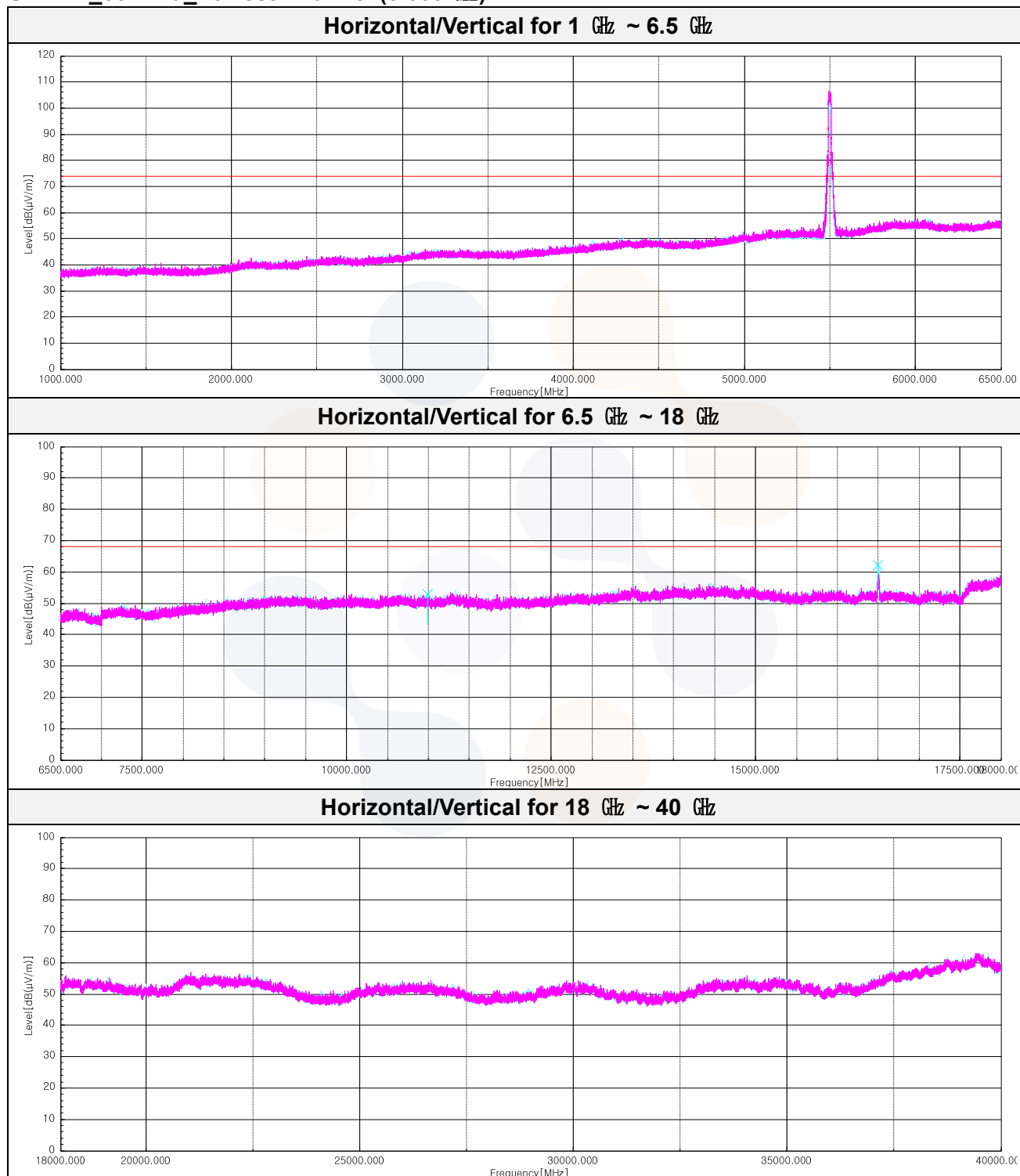
Horizontal/Vertical for Band-edge



Plot of Harmonics and Spurious Emissions

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

UNII 2C_802.11a_Lowest Channel (5 500 MHz)



Straddle Channel

802.11a (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								
11 432.73 ¹⁾	H	54.80	39.10	-41.38	-	52.52	74.00	21.48
17 163.18	V	57.70	38.15	-40.38	-	55.47	68.20	12.73
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

802.11n HT20 (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								
11 484.10 ¹⁾	H	54.60	38.93	-41.33	-	52.20	74.00	21.80
17 185.80	H	56.30	38.24	-40.29	-	54.25	68.20	13.95
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

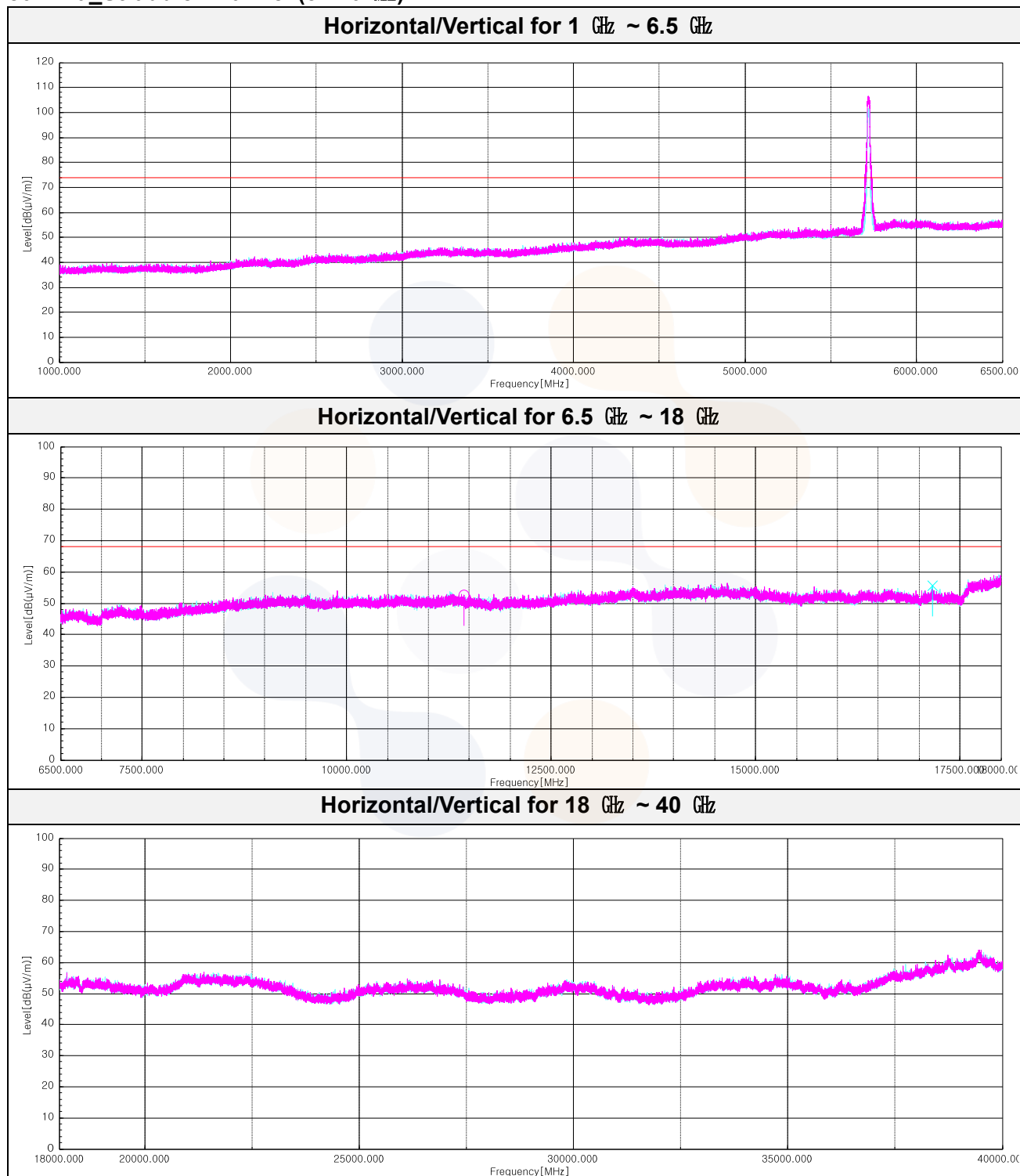
802.11n HT40 (5 710 MHz)

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								
11 426.98 ¹⁾	V	55.40	39.10	-41.39	-	53.11	74.00	20.89
17 132.90	H	56.30	37.97	-40.50	-	53.77	68.20	14.43
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

802.11a_Straddle Channel (5 720 MHz)



UNII 3

802.11a_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								
5 724.86	H	58.20	33.65	-24.04	-	67.81	121.90	54.09
11 512.85 ¹⁾	H	54.60	39.00	-41.31	-	52.29	74.00	21.71
17 232.57	H	54.80	38.27	-40.10	-	52.97	68.20	15.23
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

802.11a_Middle Channel (5 785 MHz)

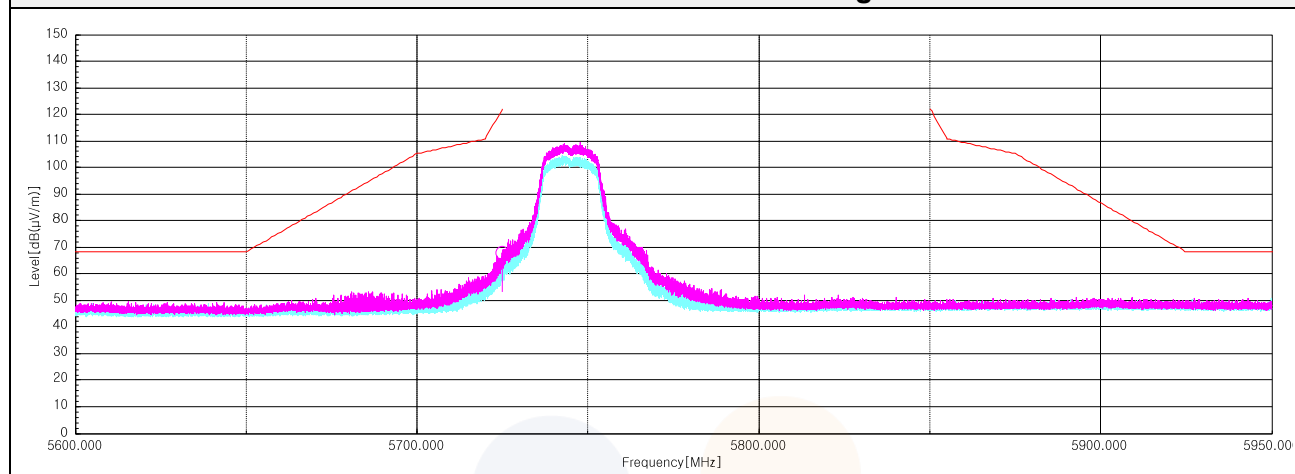
Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
11 531.25 ¹⁾	V	55.20	39.00	-41.31	-	52.89	74.00	21.11
17 347.57	H	54.90	38.69	-40.42	-	53.17	68.20	15.03
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

802.11a_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								
5 851.32	H	51.20	34.31	-23.86	-	61.65	119.20	57.55
11 656.60 ¹⁾	V	54.40	38.70	-41.30	-	51.80	74.00	22.20
17 462.95	V	55.00	39.28	-40.89	-	53.39	68.20	14.81
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

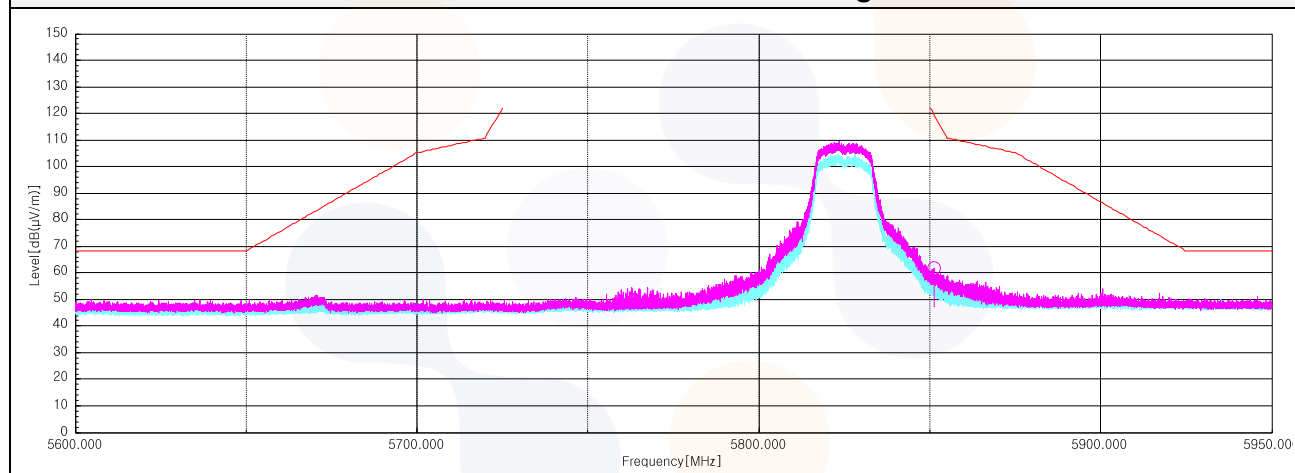
802.11a_Lowest Channel (5 745 MHz)

Horizontal/Vertical for Band-edge



802.11a_Highest Channel (5 825 MHz)

Horizontal/Vertical for Band-edge



802.11n_HT20_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								
5 724.62	H	53.60	33.65	-24.04	-	63.21	121.30	58.09
11 532.02 ¹⁾	V	55.40	39.00	-41.31	-	53.09	74.00	20.91
17 202.28	H	55.90	38.20	-40.22	-	53.88	68.20	14.32
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

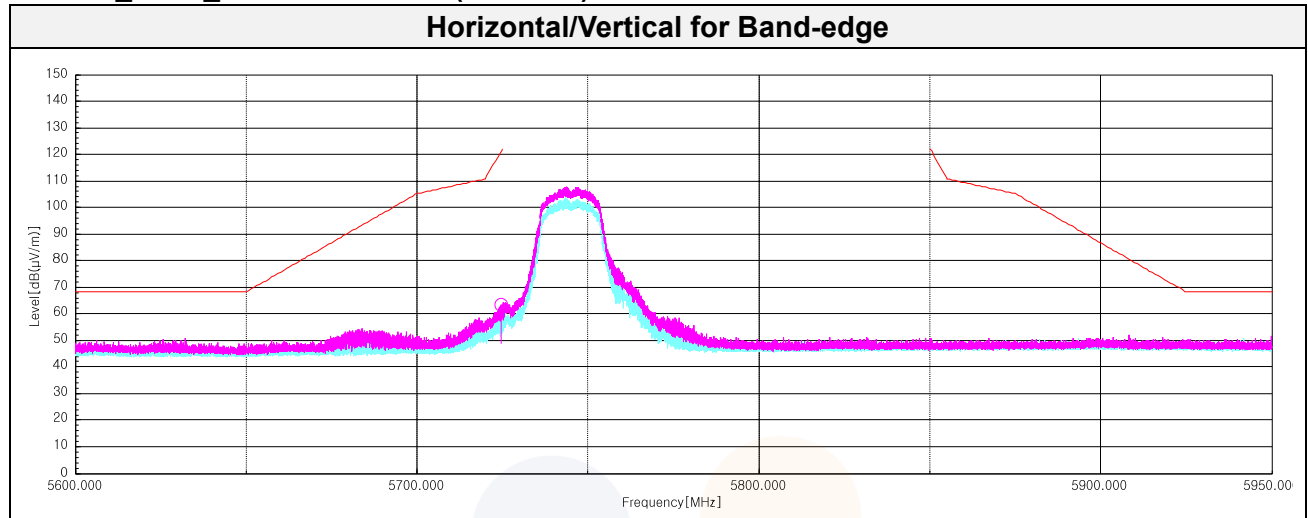
802.11n_HT20_Middle Channel (5 785 MHz)

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								
11 587.22 ¹⁾	V	54.80	38.83	-41.31	-	52.32	74.00	21.68
17 380.92	V	55.70	38.82	-40.56	-	53.96	68.20	14.24
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

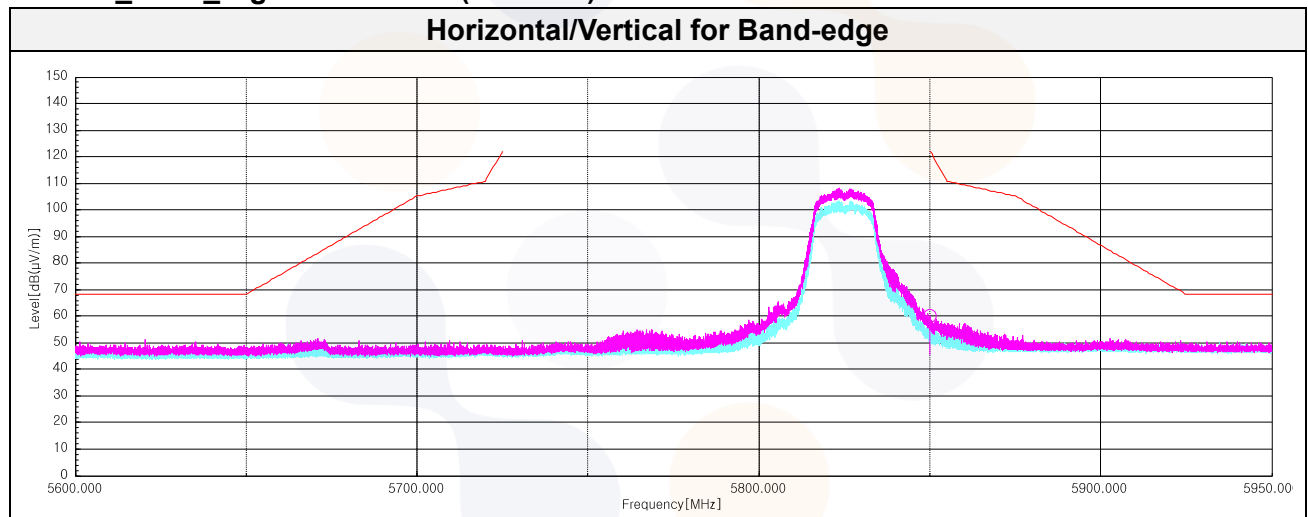
802.11n_HT20_Highest Channel (5 825 MHz)

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								
5 850.01	H	49.70	34.30	-23.86	-	60.14	122.20	62.06
11 670.78 ¹⁾	H	55.30	38.70	-41.30	-	52.70	74.00	21.30
17 470.62	V	56.70	39.32	-40.92	-	55.10	68.20	13.10
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

802.11n_HT20_Lowest Channel (5 745 MHz)



802.11n_HT20_Highest Channel (5 825 MHz)



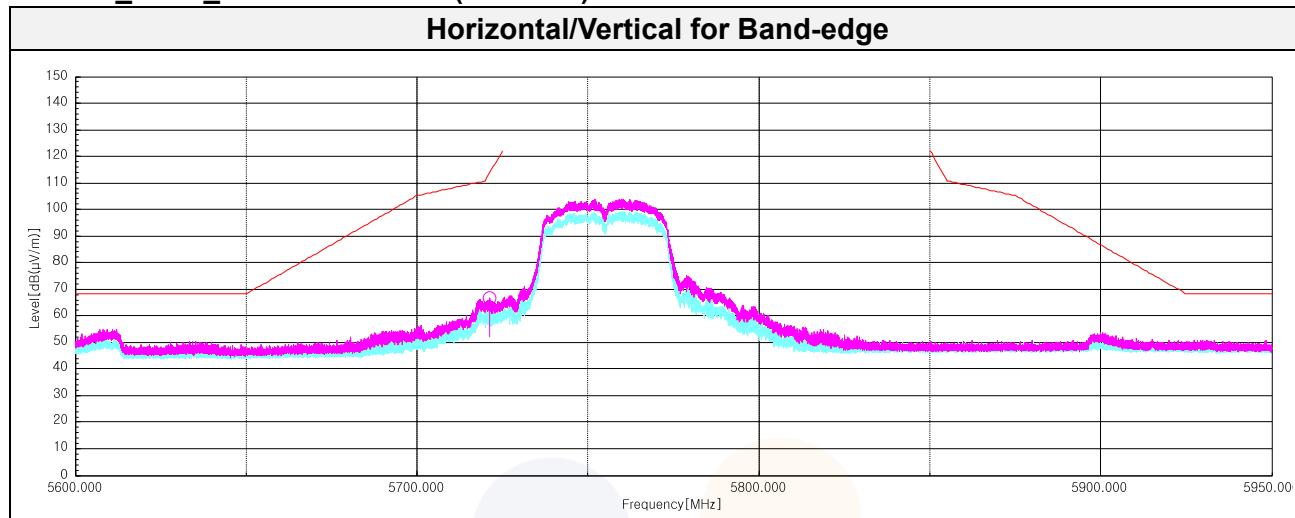
802.11n_HT40_Lowest Channel (5 755 MHz)

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								
5 721.29	H	57.10	33.63	-24.05	-	66.68	113.70	47.02
11 514.00 ¹⁾	H	54.70	39.00	-41.31	-	52.39	74.00	21.61
17 247.90	V	55.60	38.30	-40.04	-	53.86	68.20	14.34
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

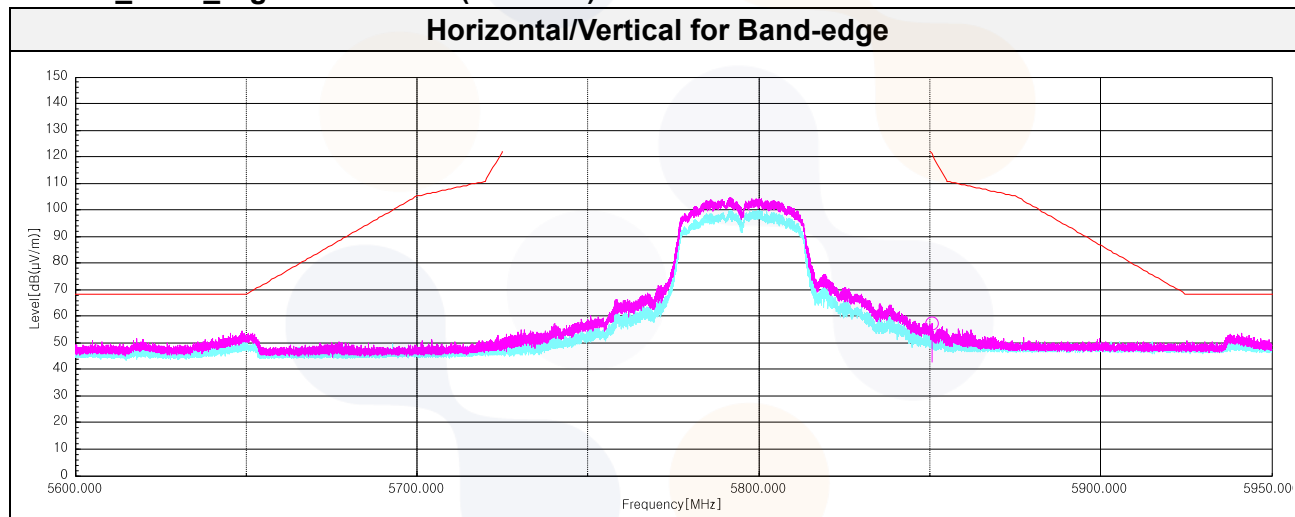
802.11n_HT40_Highest Channel (5 795 MHz)

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								
5 850.51	H	46.90	34.30	-23.86	-	57.34	121.00	63.66
11 573.42 ¹⁾	V	55.20	38.85	-41.31	-	52.74	74.00	21.26
17 380.92	V	54.10	38.82	-40.56	-	52.36	68.20	15.84
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

802.11n_HT40_Lowest Channel (5 755 MHz)



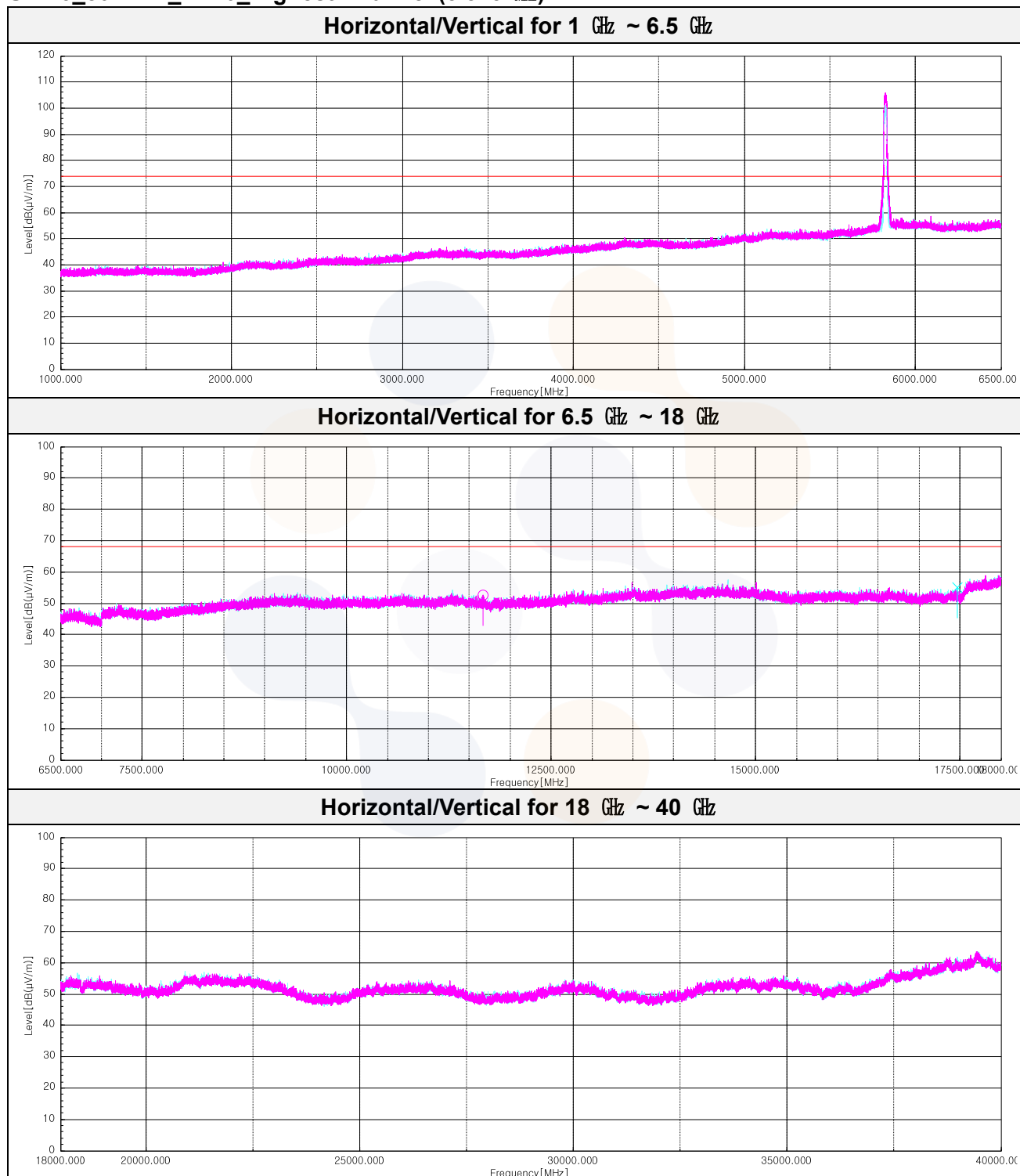
802.11n_HT40_Highest Channel (5 795 MHz)



Plot of Harmonics and Spurious Emissions

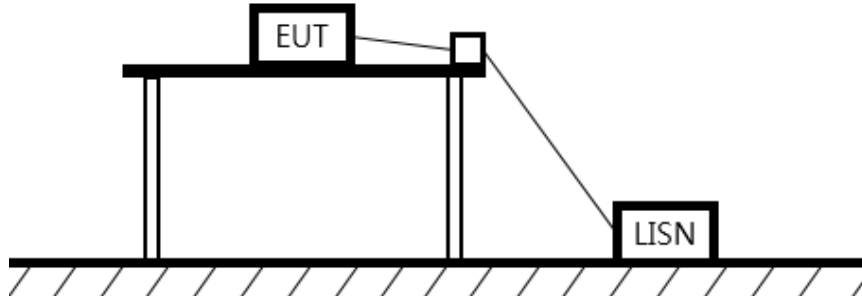
In order to simplify the report, attached plots were only the lowest margin condition

UNII 3_802.11n_HT20_Highest Channel (5 825 MHz)



7.9. AC Conducted emission

Test setup



Limit

According to 15.207(a) and RSS-Gen(8.8),

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

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

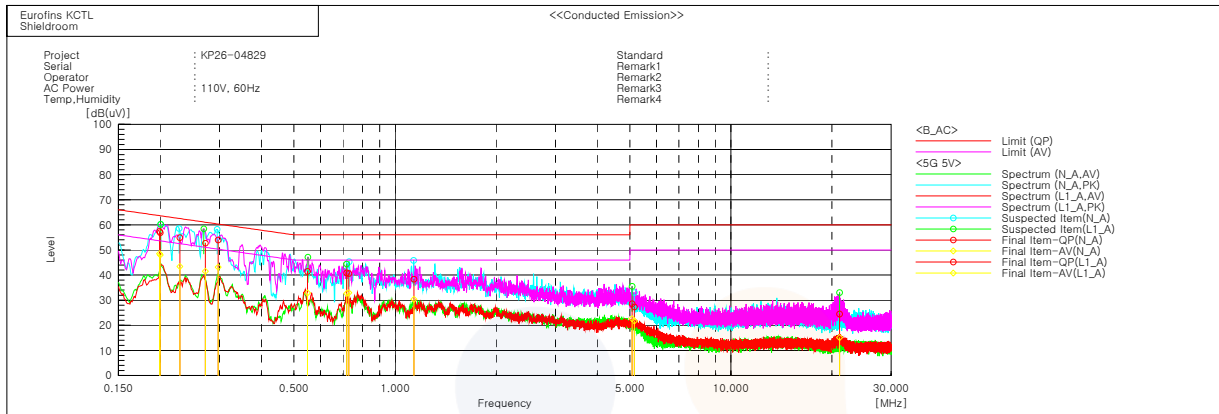
Measurement procedure

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

Test results

[DC 5 V]

Worst case: 802.11a / UNII 1_5 240 MHz



Final Result

--- N_A Phase ---

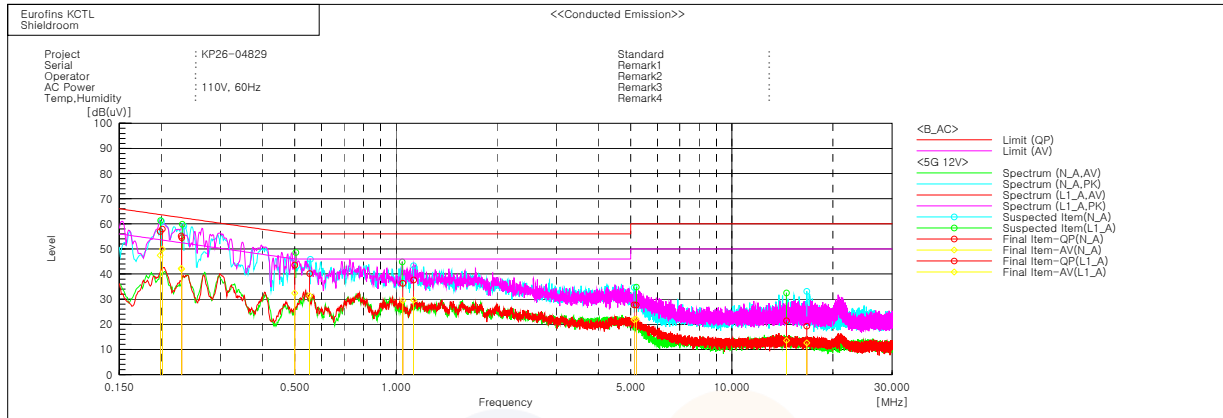
No.	Frequency [MHz]	Reading QP [dB(uV)]	Reading CAV [dB(uV)]	c.f [dB]	Result QP [dB(uV)]	Result CAV [dB(uV)]	Limit QP [dB(uV)]	Limit AV [dB(uV)]	Margin QP [dB]	Margin CAV [dB]
1	0.20007	46.7	37.8	10.2	56.9	48.0	63.6	53.6	6.7	5.6
2	0.22871	44.9	33.4	10.0	54.9	43.4	62.5	52.5	7.6	9.1
3	0.29755	43.9	33.2	10.0	53.9	43.2	60.3	50.3	6.4	7.1
4	0.7283	30.4	22.8	10.2	40.6	33.0	56.0	46.0	15.4	13.0
5	1.13857	28.3	20.3	10.0	38.3	30.3	56.0	46.0	17.7	15.7
6	5.16105	17.3	11.7	10.0	27.3	21.7	60.0	50.0	32.7	28.3

--- L1_A Phase ---

No.	Frequency [MHz]	Reading QP [dB(uV)]	Reading CAV [dB(uV)]	c.f [dB]	Result QP [dB(uV)]	Result CAV [dB(uV)]	Limit QP [dB(uV)]	Limit AV [dB(uV)]	Margin QP [dB]	Margin CAV [dB]
1	0.19899	47.1	38.3	10.2	57.3	48.5	63.7	53.7	6.4	5.2
2	0.27254	42.8	31.6	9.9	52.7	41.5	61.0	51.0	8.3	9.5
3	0.54898	31.1	22.6	10.3	41.4	32.9	56.0	46.0	14.6	13.1
4	0.71723	30.7	22.5	10.2	40.9	32.7	56.0	46.0	15.1	13.3
5	5.08025	18.6	12.6	10.0	28.6	22.6	60.0	50.0	31.4	27.4
6	21.07298	13.2	3.8	11.3	24.5	15.1	60.0	50.0	35.5	34.9

[DC 12 V]

Worst case: 802.11a / UNII 1_5 240 MHz



Final Result

--- N_A Phase ---									
No.	Frequency [MHz]	Reading QP [dB(μV)]	Reading CAV [dB(μV)]	c.f [dB]	Result QP [dB(μV)]	Result CAV [dB(μV)]	Limit QP [dB(μV)]	Limit AV [dB(μV)]	Margin
									QP [dB]
1	0.19867	46.7	37.3	10.2	56.9	47.5	63.7	53.7	6.8
2	0.23022	44.4	32.0	10.0	54.4	42.0	62.4	52.4	8.0
3	0.55359	29.9	21.1	10.3	40.2	31.4	56.0	46.0	15.8
4	1.12861	27.5	19.5	10.1	37.6	29.6	56.0	46.0	18.4
5	5.1196	17.7	11.9	10.0	27.7	21.9	60.0	50.0	32.3
6	16.72327	8.1	1.5	11.1	19.2	12.6	60.0	50.0	40.8
									CAV [dB]
									6.2
									10.4
									14.6
									16.4
									28.1
									37.4

--- L1_A Phase ---									
No.	Frequency [MHz]	Reading QP [dB(μV)]	Reading CAV [dB(μV)]	c.f [dB]	Result QP [dB(μV)]	Result CAV [dB(μV)]	Limit QP [dB(μV)]	Limit AV [dB(μV)]	Margin
									QP [dB]
1	0.20168	47.7	39.7	10.2	57.9	49.9	63.5	53.5	5.6
2	0.22954	45.2	32.2	10.0	55.2	42.2	62.5	52.5	7.3
3	0.49973	33.2	22.1	10.3	43.5	32.4	56.0	46.0	12.5
4	1.04801	26.2	19.3	10.1	36.3	29.4	56.0	46.0	19.7
5	5.19554	17.6	12.1	10.0	27.6	22.1	60.0	50.0	32.4
6	14.55314	10.6	2.8	10.8	21.4	13.6	60.0	50.0	38.6
									CAV [dB]
									3.6
									10.3
									13.6
									16.6
									27.9
									36.4

8. Measurement equipment

Equipment Name	Manufacturer	Model No.	Serial No.	Next Cal. Date
Spectrum Analyzer	R&S	FSVA3030	101124	27.08.04*
Signal Generator	R&S	SMB100A	176206	27.01.15
Attenuator	HUBER+SUHNER	6610_SK-50-1 /199 NE	ATT12	27.07.06
Power Splitter	Mini-Circuits	ZFSC-2-10G+	3	27.04.23
Power Splitter	Mini-Circuits	ZFSC-2-10G+	4	27.04.23
Step Attenuator	KEYSIGHT	8495D	MY42144296	27.01.19
Vector Signal Generator	R&S	SMBV100A	257566	27.07.06
DC Power Supply	TOYOTECH	TL305TP	21040092	27.04.23
Pulse Power Meter	ANRITSU	ML2495A	1608009	27.07.07
Pulse Power Sensor	ANRITSU	MA2411B	1726174	27.07.07
Temp. & Humid. Chamber	Myeongseong R&P	CTHC-50P-DT	20150824-2	27.01.15
Spectrum Analyzer	R&S	FSV40	100988	27.04.06
Amplifier	SONOMA INSTRUMENT	310N	421910	27.07.06
Bi-log Antenna	Teseq GmbH	CBL 6112D	61521	26.12.11
Loop Antenna	R&S	HFH2-Z2	100355	28.06.29
DC Power Supply	POWERCOM	DCP-50100A	20220610-01	27.01.16
Vector Signal Generator	R&S	SMBV100A	257566	27.07.06
Spectrum Analyzer	R&S	FSVA40	101575	27.04.23
Broadband PreAmplifier	SCHWARZBECK	BBV9718D	57	27.01.15
Low Noise Amplifier	TESTEK	TK-PA18H	220124-L	26.09.29
Low Noise Amplifier	TESTEK	TK-PA1840H	220133-L	26.10.13
Horn Antenna	SCHWARZBECK	BBHA9120D	2763	26.10.02
Horn Antenna	SCHWARZBECK	BBHA9170	1267	26.10.02
High Pass Filter	QOTANA TECHNOLOGIES	DBHF0508004000A	23041800061	27.04.28
Signal Generator	R&S	SMB100A	176206	27.01.15
TWO-LINE V - NETWORK	R&S	ENV216	101584	27.03.24
EMI TEST RECEIVER	R&S	ESCI3	101428	27.08.11*
High Pass Filter	Wainwright Instruments GmbH	WHKX8-5655-6500- 18000-40SS	SN8	26.09.30
Controller	INNCO SYSTEMS	CO3000	1441/54370322/P	-
Antenna Mast	INNCO SYSTEMS	MA4640-XP-ET	AM003	-
Turn Device	INNCO SYSTEMS	DS1200-S-1t	0003	-
Controller	INNCO SYSTEMS	CO3000	1442/54370322/P	-
Antenna Mast	INNCO SYSTEMS	MA4640-XP-ET	AM002	-
Turn Device	INNCO SYSTEMS	DS1200-S-1t	0001	-
Cable Assembly	HUBER+SUHNER	SUCOFLEX 104	RF-3.5/26G-023	27.02.02
Cable Assembly	HUBER+SUHNER	SUCOFLEX 104	RF-N type 40G- 002	27.07.14
Cable Assembly	HUBER+SUHNER	SUCOFLEX 102	RF-2.92/40G-006	27.06.08
Cable Assembly	isolution	TP-260520-CA-005	RF-2.92/40G-005	27.06.08

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

End of test report