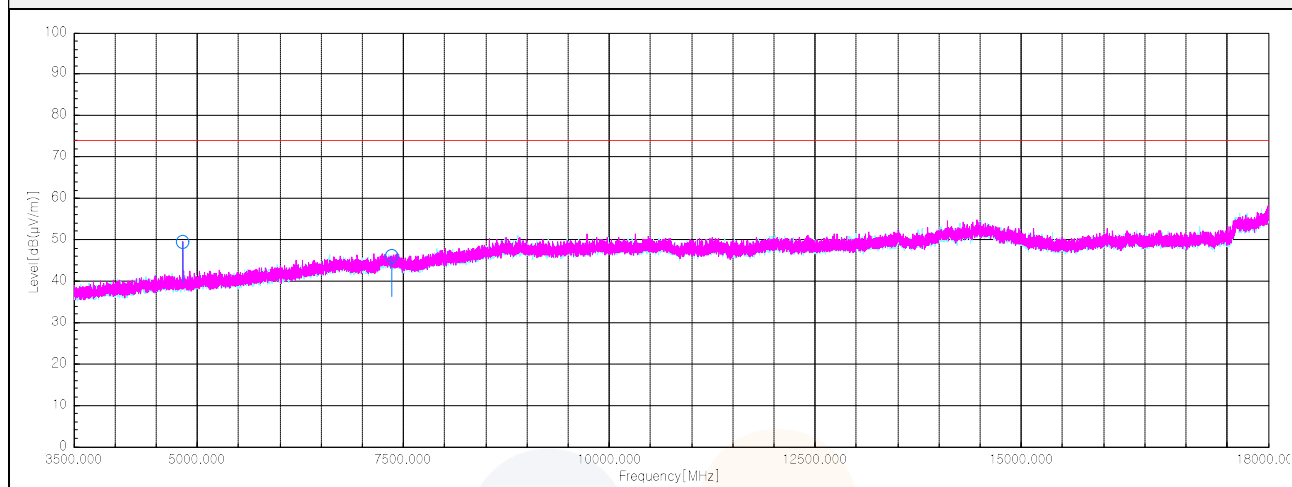


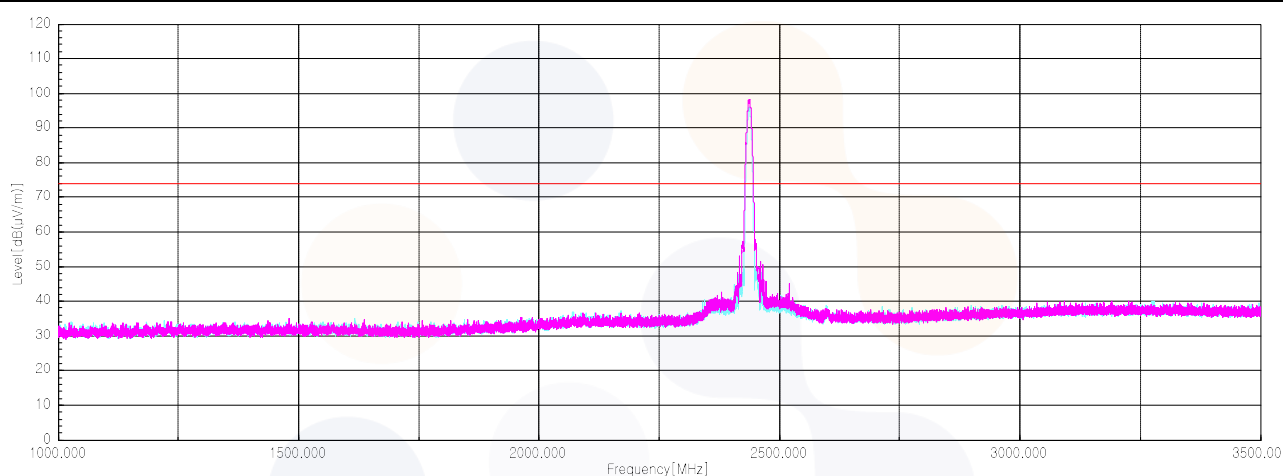
Horizontal/Vertical for 3.5 GHz ~ 18 GHz



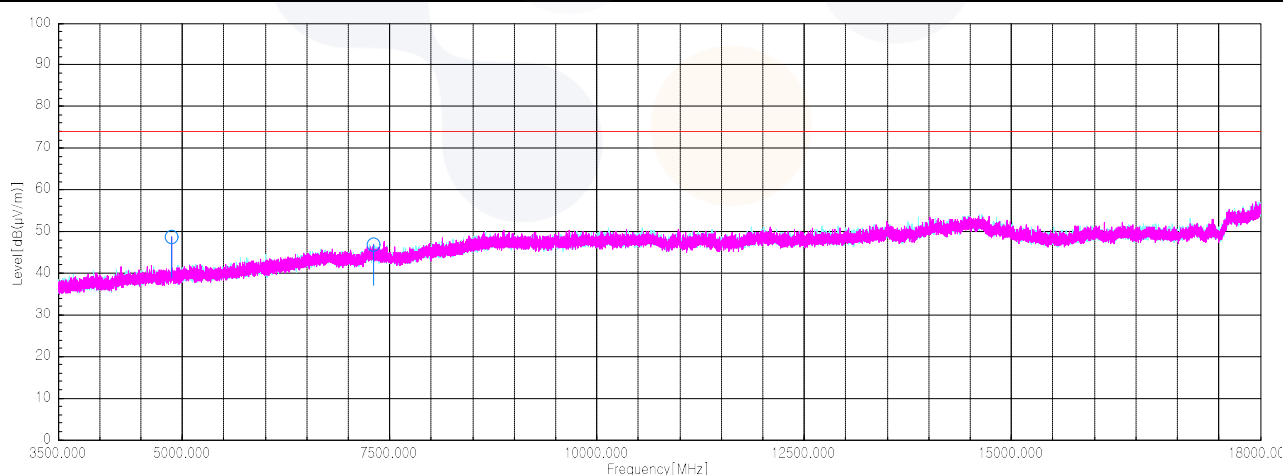
2 437 MHz

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								
4 874.12 ¹⁾	H	61.80	32.74	-45.81	-	48.73	74.00	25.27
7 308.67 ¹⁾	H	54.10	37.07	-44.32	-	46.85	74.00	27.15
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

Horizontal/Vertical for 1 GHz ~ 3.5 GHz

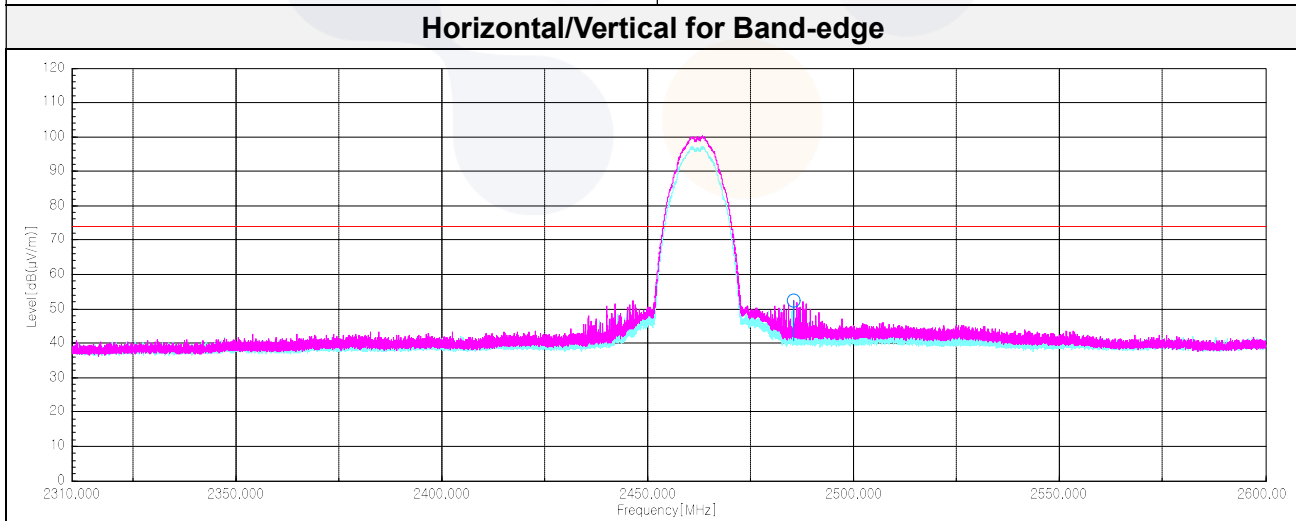
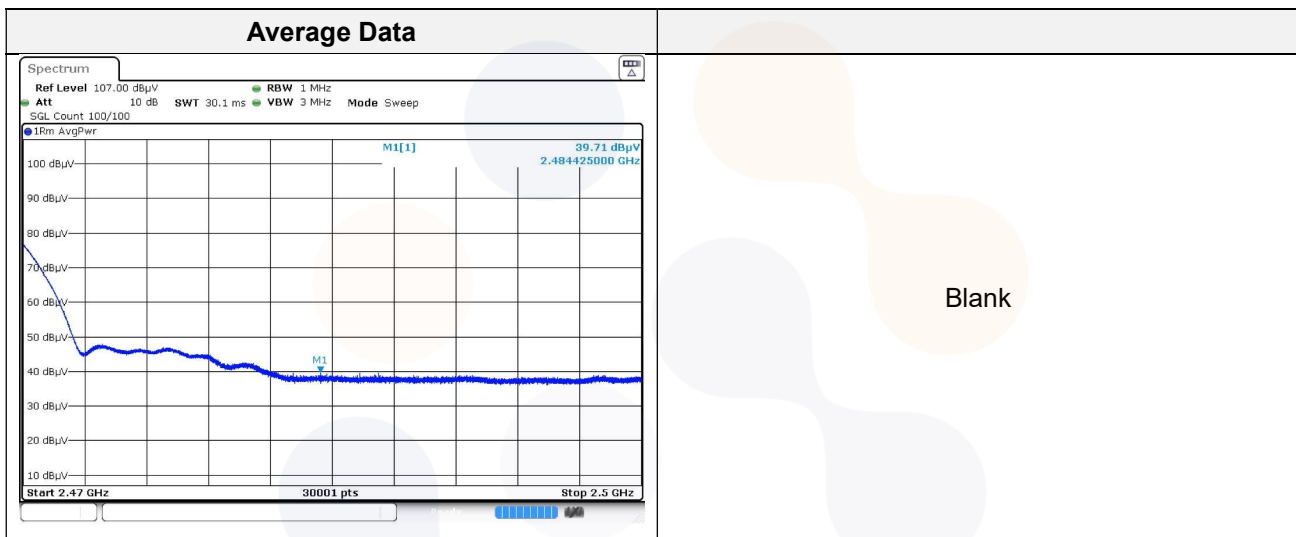


Horizontal/Vertical for 3.5 GHz ~ 18 GHz

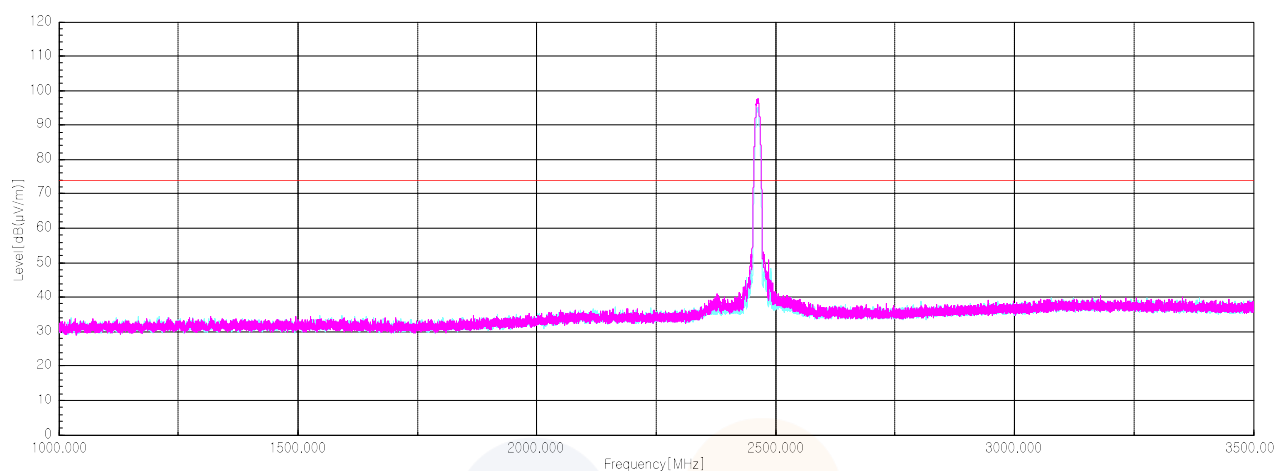


2 462 MHz

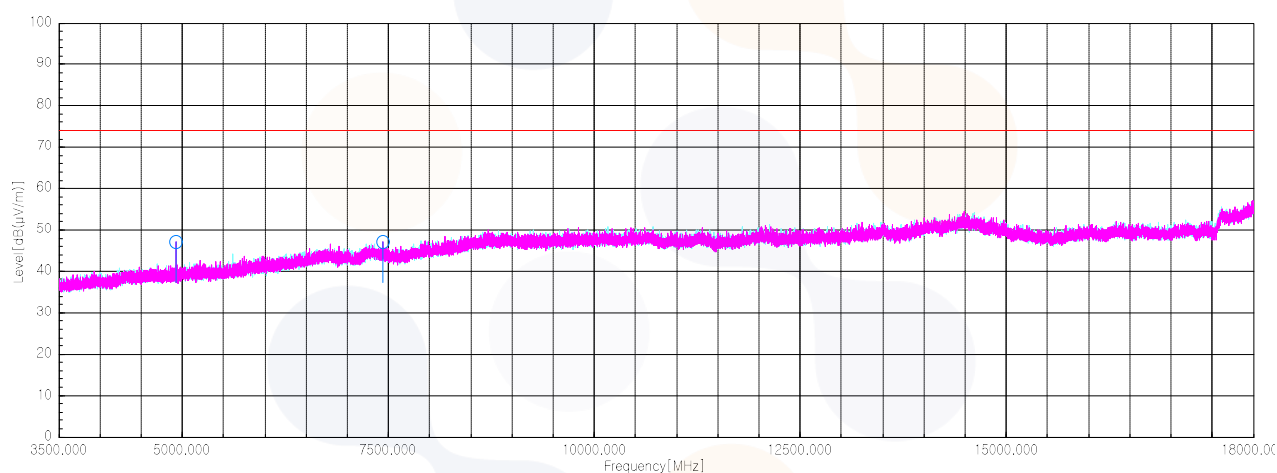
Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
2 484.43 ¹⁾	H	54.90	27.70	-30.23	-	52.37	74.00	21.63
4 923.42 ¹⁾	H	60.00	32.75	-45.59	-	47.16	74.00	26.84
7 433.85 ¹⁾	H	54.30	36.83	-44.10	-	47.03	74.00	26.97
Average Data								
2 484.43 ¹⁾	H	39.71	27.70	-30.23	-	37.18	54.00	16.82



Horizontal/Vertical for 1 GHz ~ 3.5 GHz



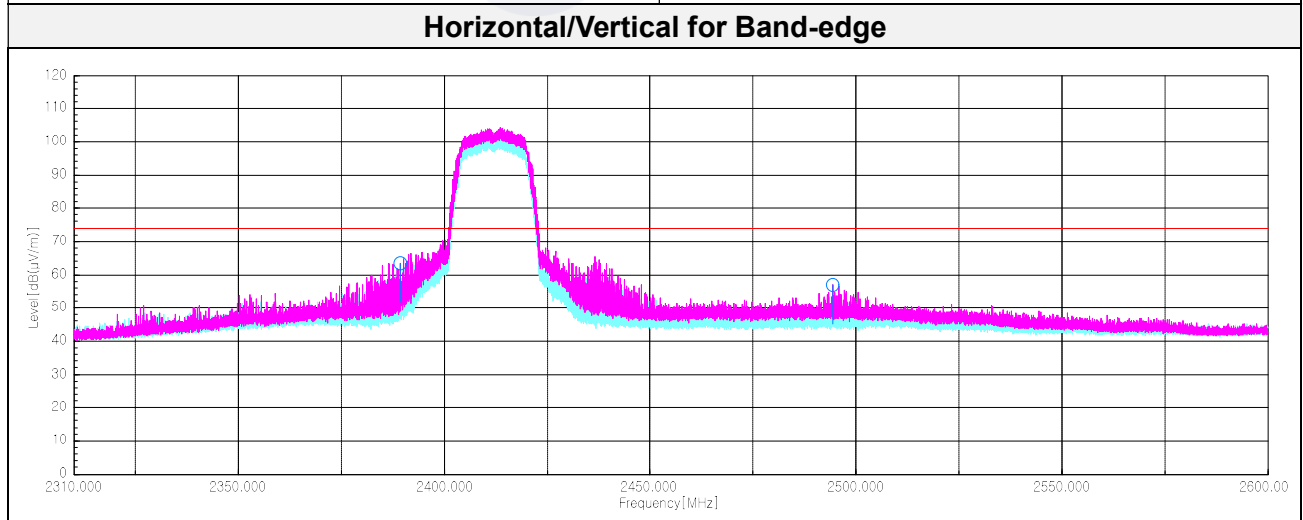
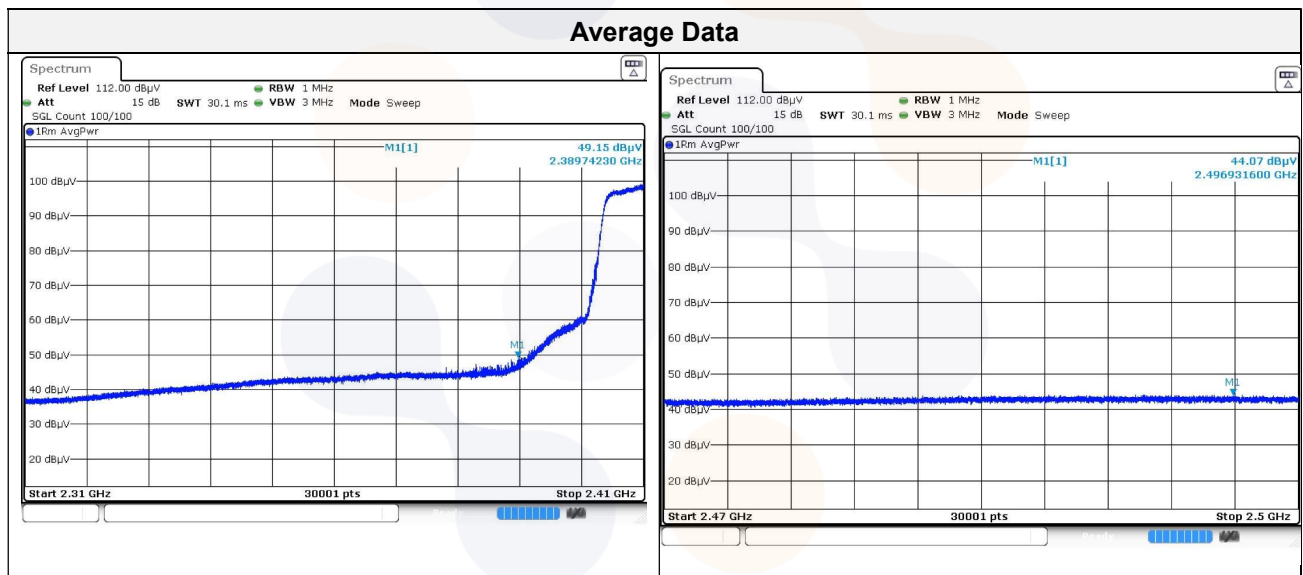
Horizontal/Vertical for 3.5 GHz ~ 18 GHz



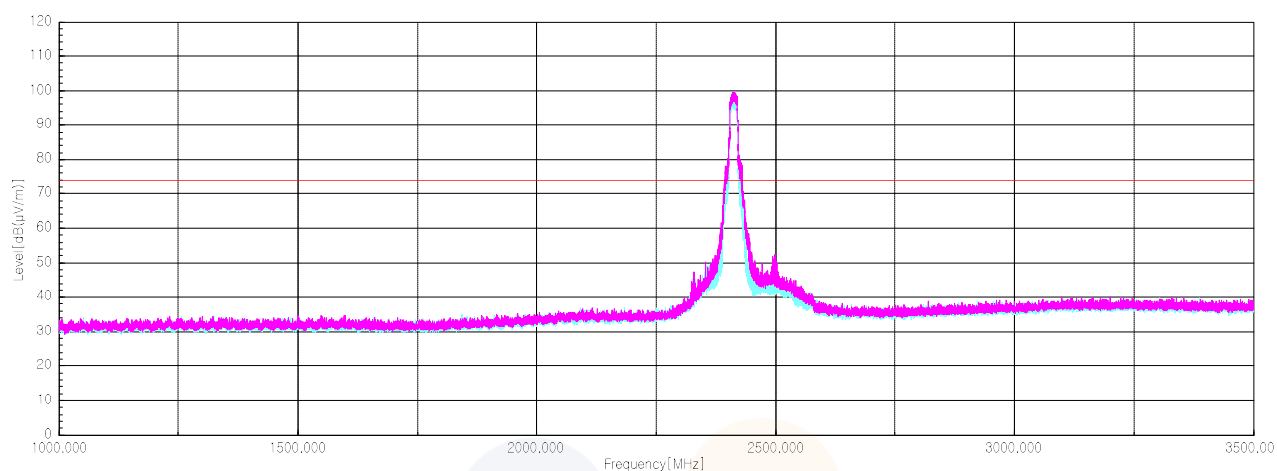
802.11g

2 412 MHz

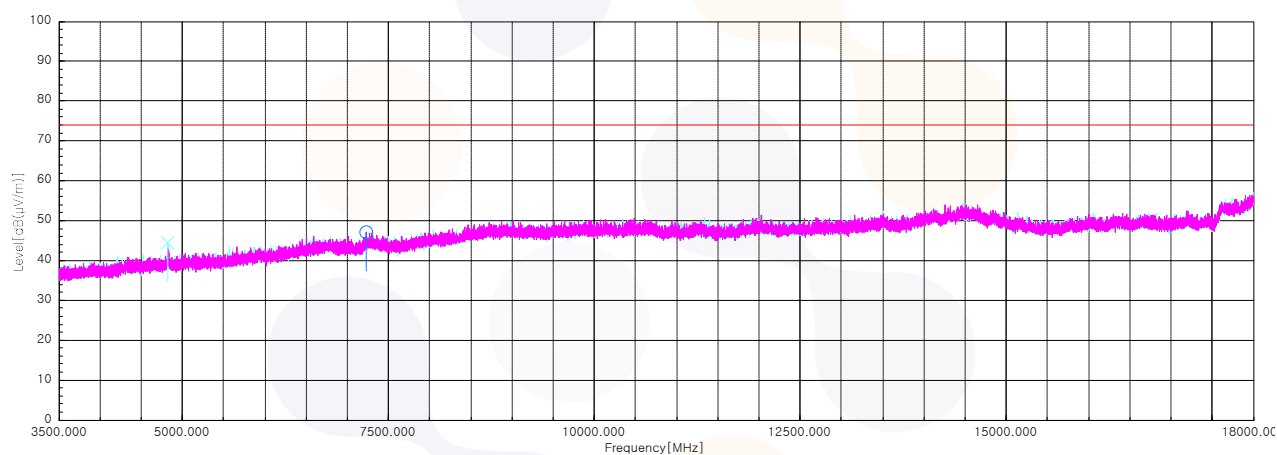
Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
2 389.74 ¹⁾	H	66.70	27.10	-30.39	-	63.41	74.00	10.59
2 496.93 ¹⁾	H	59.40	27.87	-30.21	-	57.06	74.00	16.94
4 824.33 ¹⁾	V	57.90	32.45	-46.04	-	44.31	74.00	29.69
7 229.40	H	54.30	37.16	-44.37	-	47.09	74.00	26.91
Average Data								
2 389.74 ¹⁾	H	49.15	27.10	-30.39	0.33	46.19	54.00	7.81
2 496.93 ¹⁾	H	44.07	27.87	-30.21	0.33	42.06	54.00	11.94



Horizontal/Vertical for 1 GHz ~ 3.5 GHz



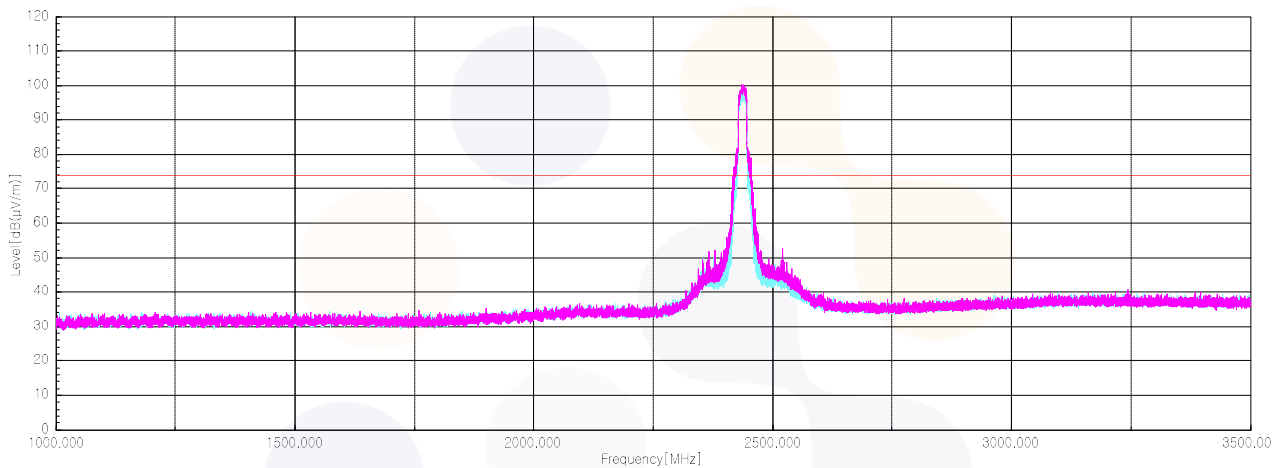
Horizontal/Vertical for 3.5 GHz ~ 18 GHz



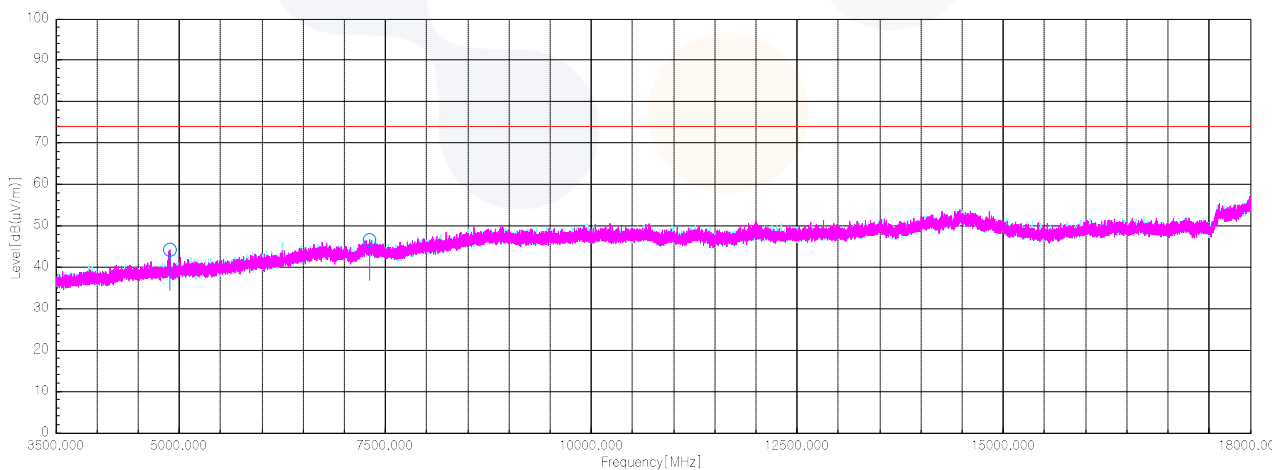
2 437 MHz

Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
4 877.50 ¹⁾	H	57.40	32.77	-45.80	-	44.37	74.00	29.63
7 309.15 ¹⁾	H	53.70	37.06	-44.32	-	46.44	74.00	27.56
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

Horizontal/Vertical for 1 GHz ~ 3.5 GHz

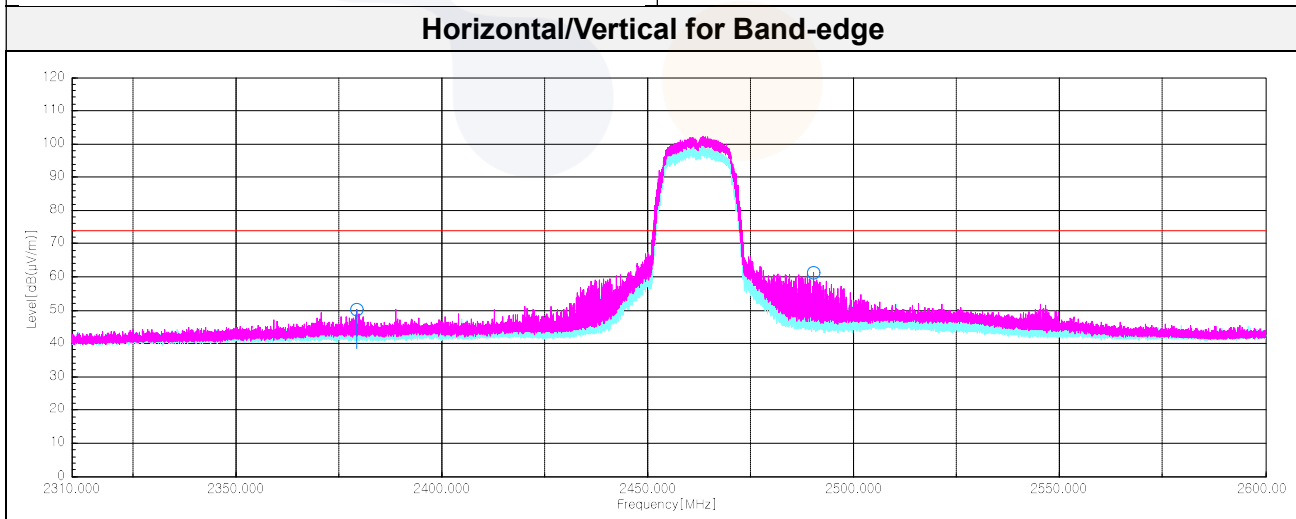
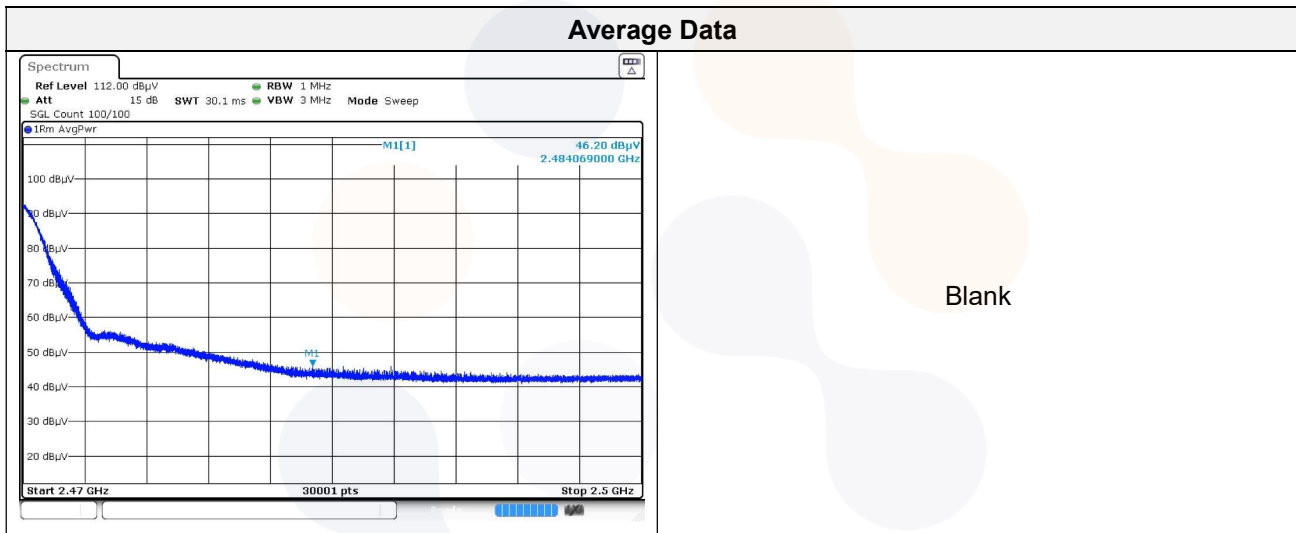


Horizontal/Vertical for 3.5 GHz ~ 18 GHz

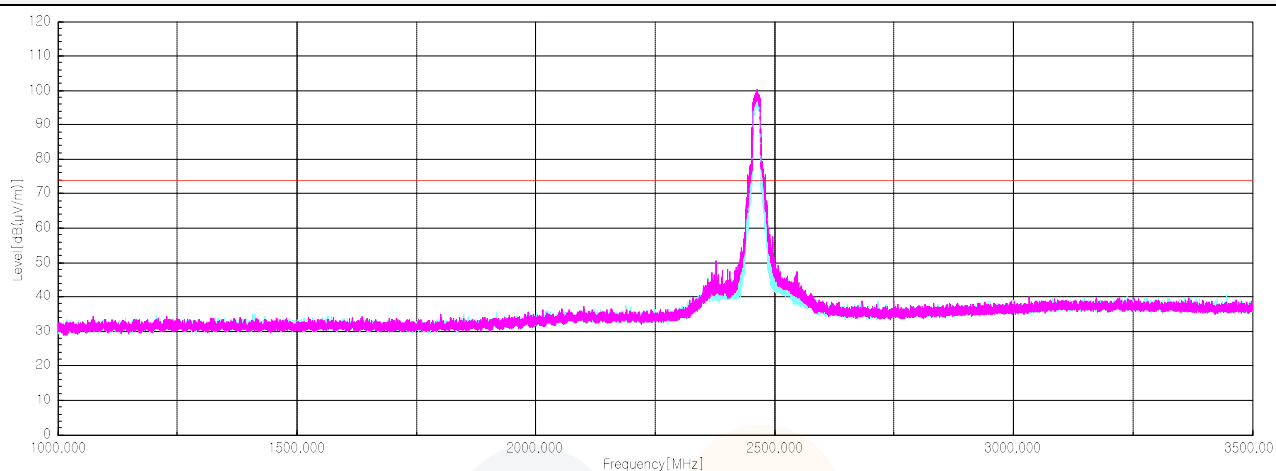


2 462 MHz

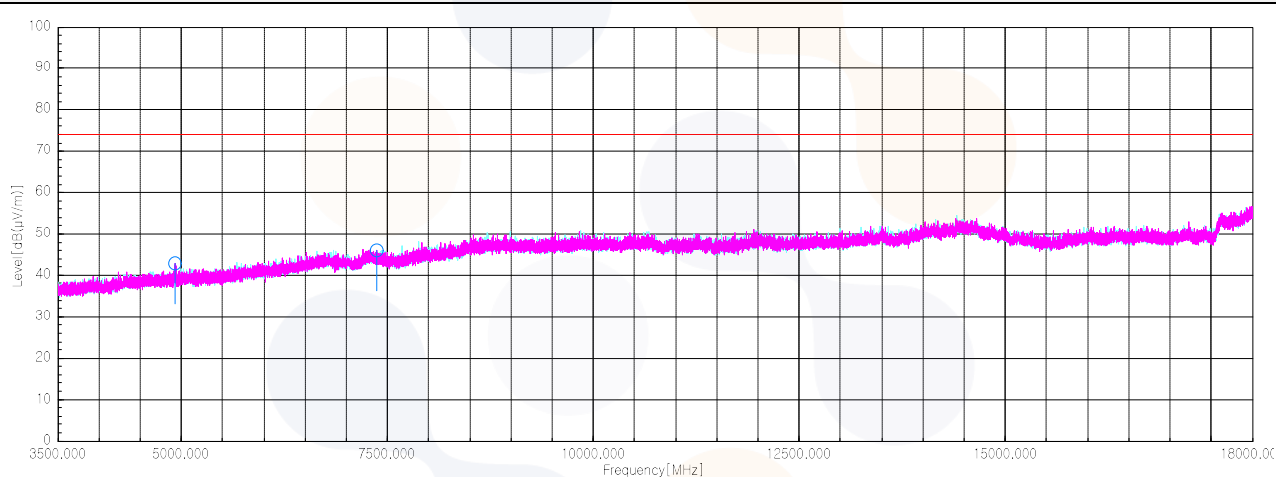
Frequency	Pol.	Reading	Ant. Factor	Amp. + Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
2 484.07 ¹⁾	H	63.50	27.70	-30.24	-	60.96	74.00	13.04
2 379.27 ¹⁾	H	53.60	27.19	-30.40	-	50.39	74.00	23.61
4 921.97 ¹⁾	H	55.70	32.74	-45.60	-	42.84	74.00	31.16
7 365.22 ¹⁾	H	53.30	36.97	-44.22	-	46.05	74.00	27.95
Average Data								
2 484.07 ¹⁾	H	46.20	27.70	-30.24	0.33	43.99	54.00	10.01



Horizontal/Vertical for 1 GHz ~ 3.5 GHz



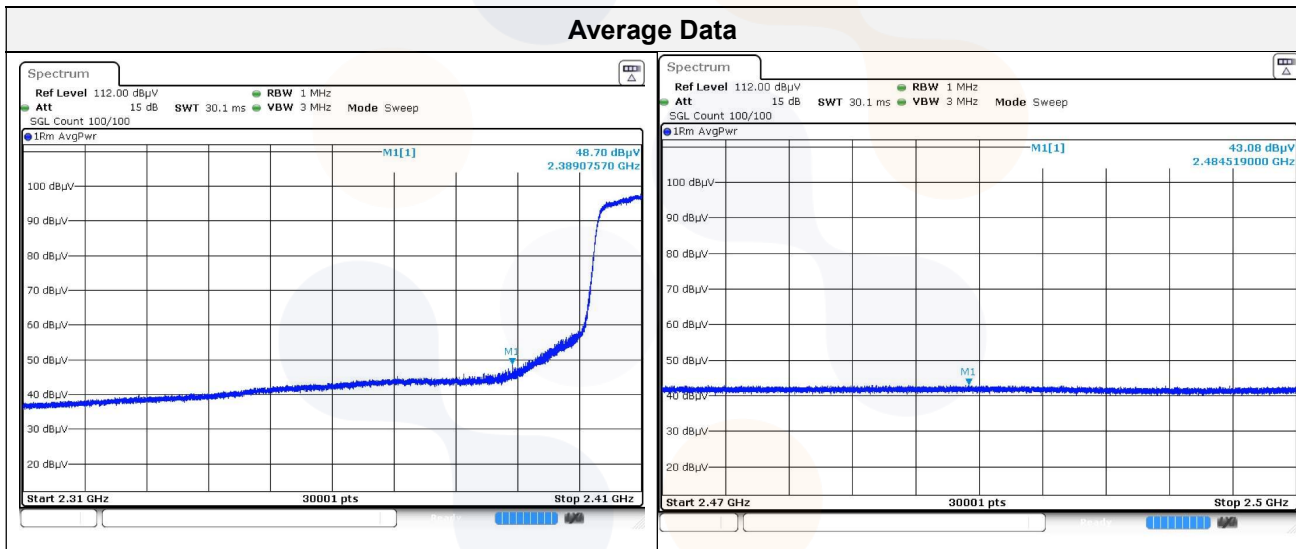
Horizontal/Vertical for 3.5 GHz ~ 18 GHz



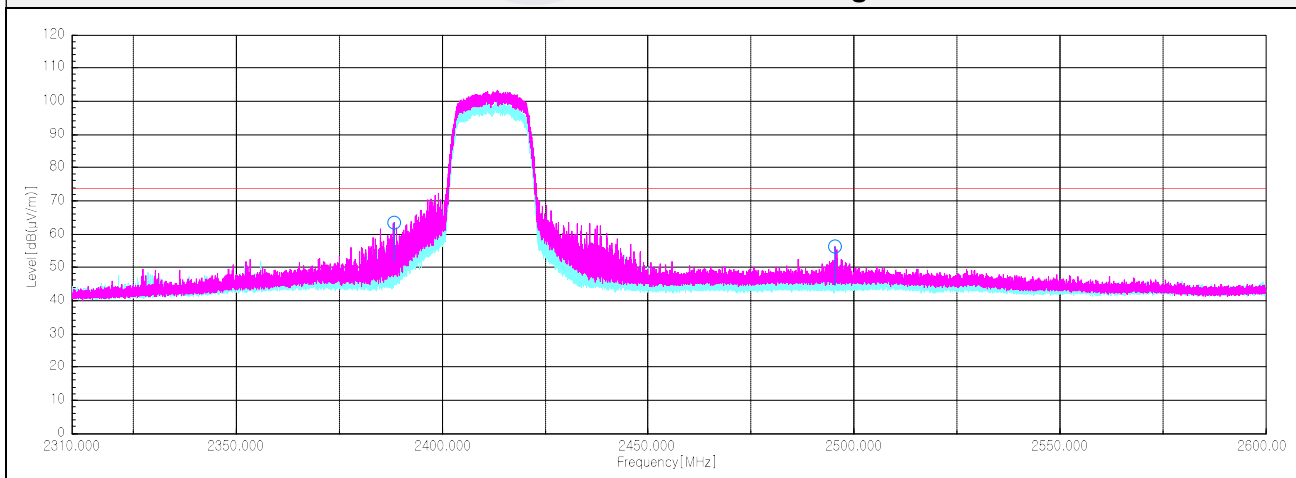
802.11n HT20

2 412 MHz

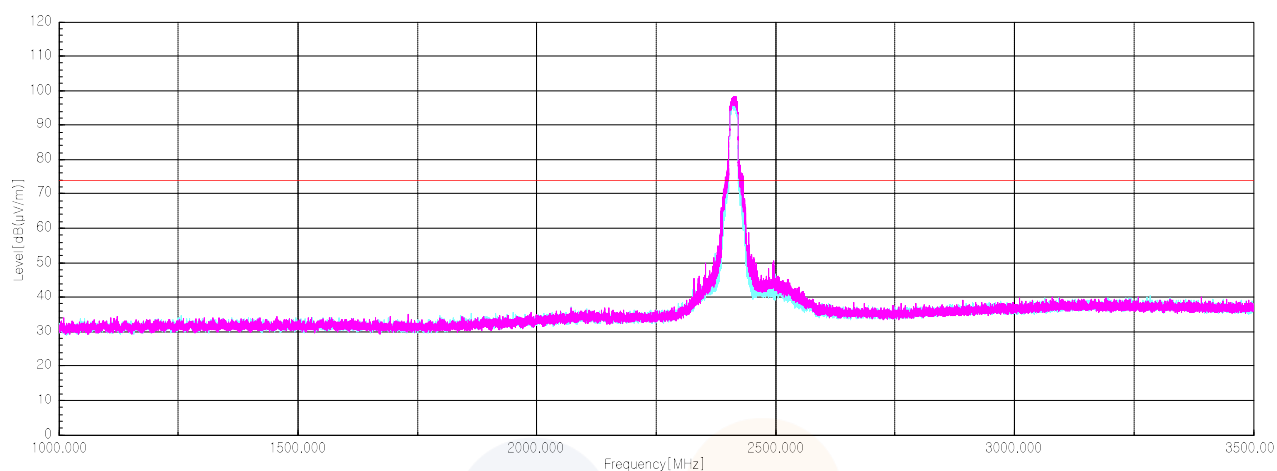
Frequency	Pol.	Reading	Ant. Factor	Amp. + Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
2 389.08 ¹⁾	H	66.50	27.10	-30.39	-	63.21	74.00	10.79
2 484.52 ¹⁾	H	58.80	27.70	-30.23	-	56.27	74.00	17.73
4 823.37 ¹⁾	H	57.10	32.44	-46.04	-	43.50	74.00	30.50
7 243.90	H	53.90	37.19	-44.40	-	46.69	74.00	27.31
Average Data								
2 389.08 ¹⁾	H	48.70	27.10	-30.39	0.35	45.76	54.00	8.24
2 484.52 ¹⁾	H	43.08	27.70	-30.23	0.35	40.90	54.00	13.10



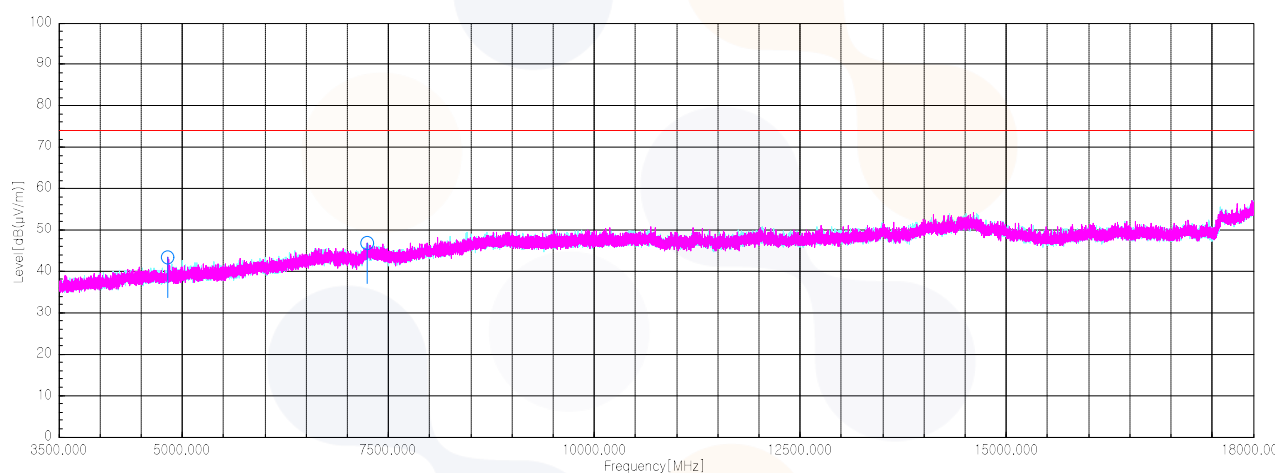
Horizontal/Vertical for Band-edge



Horizontal/Vertical for 1 GHz ~ 3.5 GHz



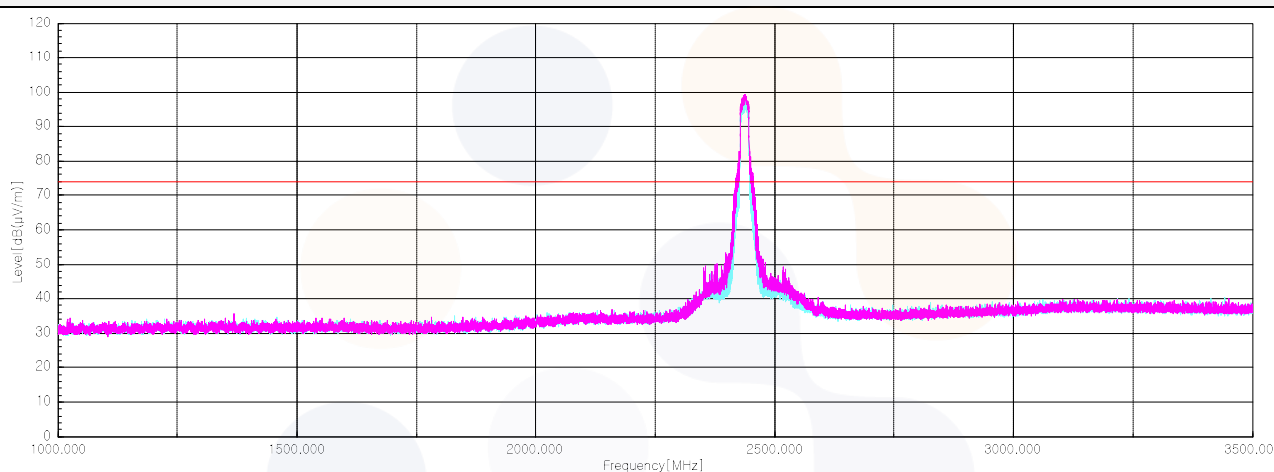
Horizontal/Vertical for 3.5 GHz ~ 18 GHz



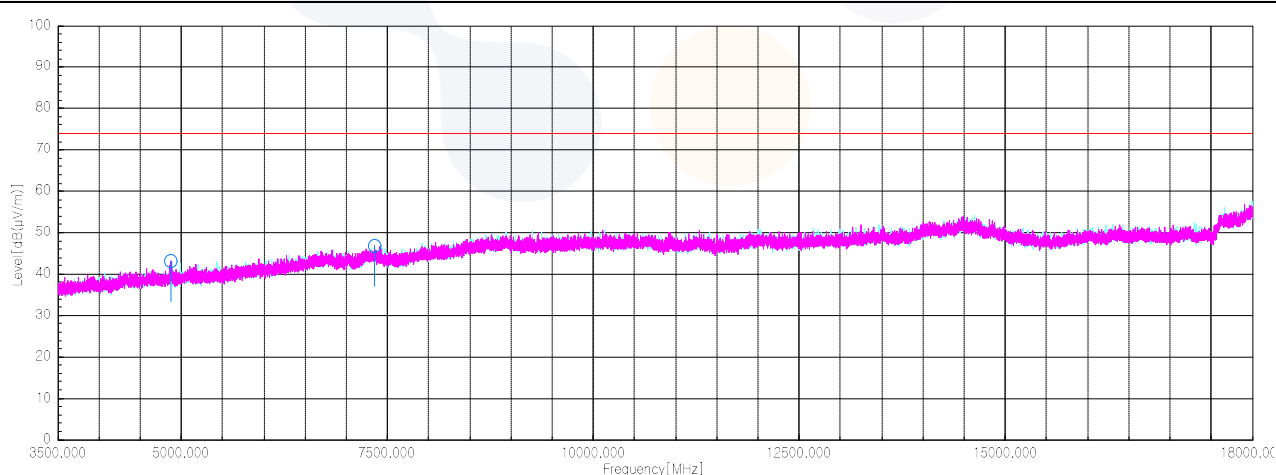
2 437 MHz

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								
4 875.08 ¹⁾	H	56.50	32.75	-45.81	-	43.44	74.00	30.56
7 339.60 ¹⁾	H	54.00	36.94	-44.27	-	46.67	74.00	27.33
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

Horizontal/Vertical for 1 GHz ~ 3.5 GHz

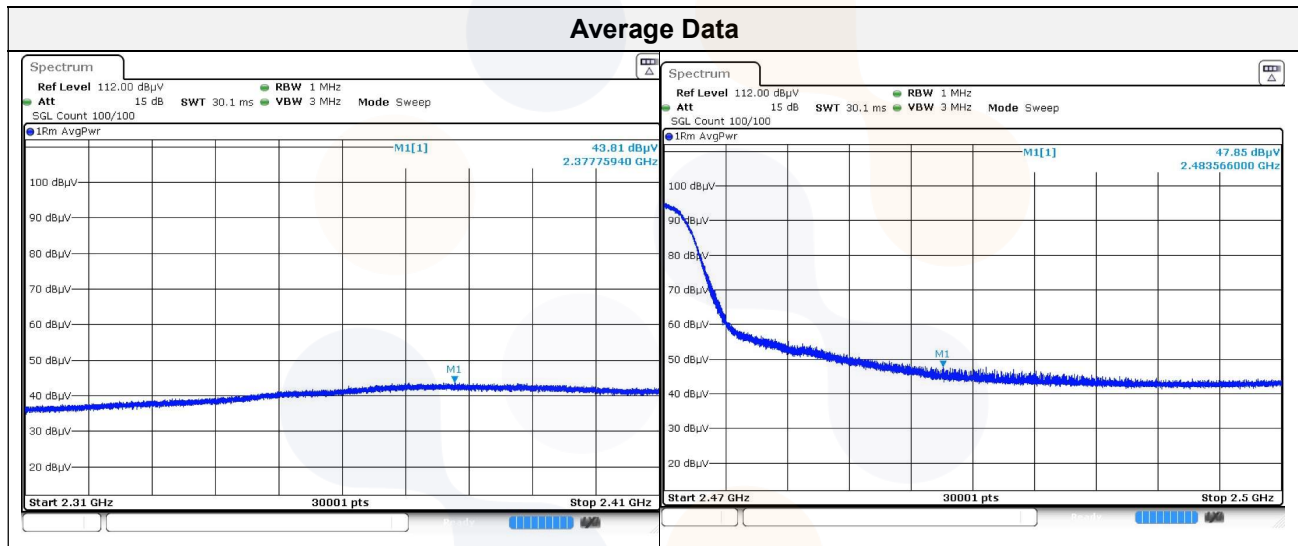


Horizontal/Vertical for 3.5 GHz ~ 18 GHz

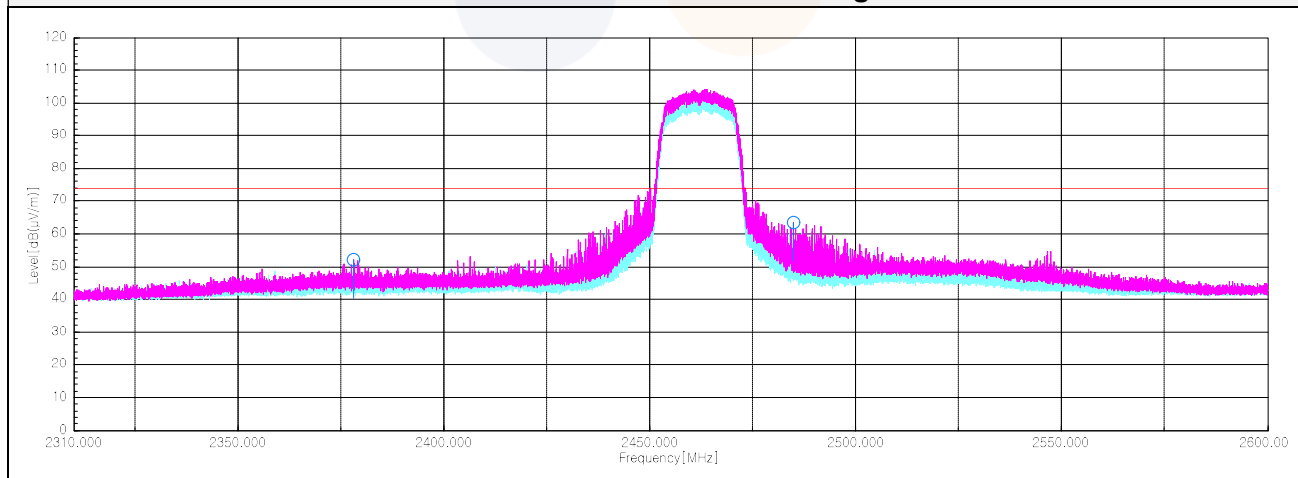


2 462 MHz

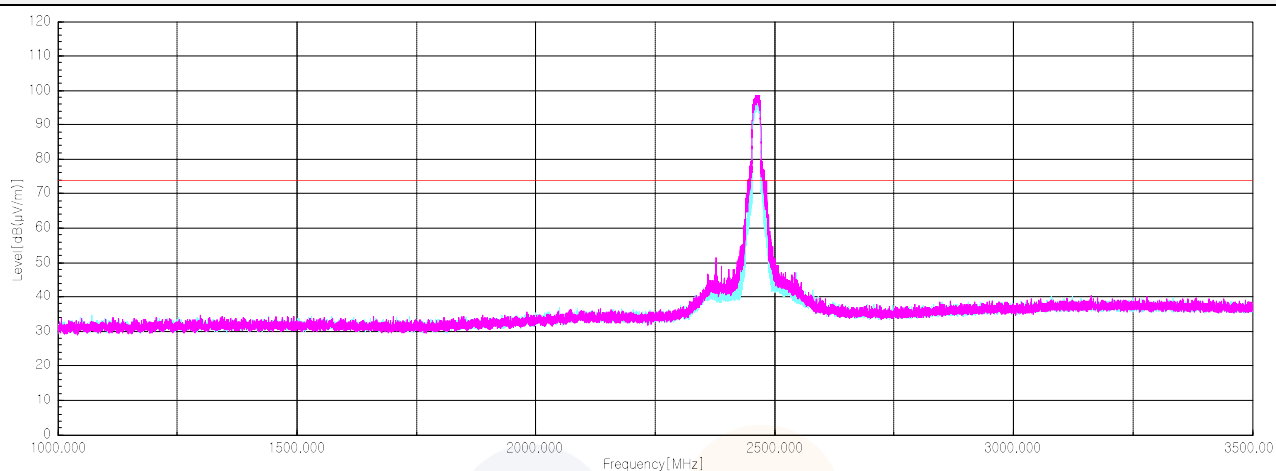
Frequency	Pol.	Reading	Ant. Factor	Amp. + Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
2 377.76 ¹⁾	H	56.10	27.18	-30.41	-	52.87	74.00	21.13
2 483.57 ¹⁾	H	65.50	27.70	-30.24	-	62.96	74.00	11.04
4 924.87 ¹⁾	H	56.50	32.75	-45.59	-	43.66	74.00	30.34
7 383.58 ¹⁾	H	54.00	36.93	-44.19	-	46.74	74.00	27.26
Average Data								
2 377.76 ¹⁾	H	43.81	27.18	-30.41	0.35	40.93	54.00	13.07
2 483.57 ¹⁾	H	47.85	27.70	-30.24	0.35	45.66	54.00	8.34



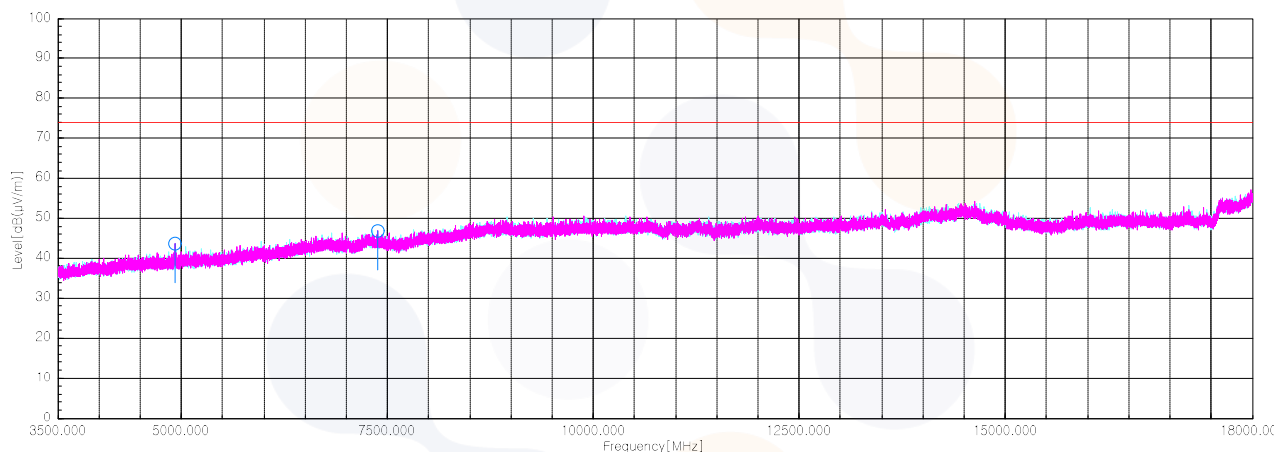
Horizontal/Vertical for Band-edge



Horizontal/Vertical for 1 GHz ~ 3.5 GHz



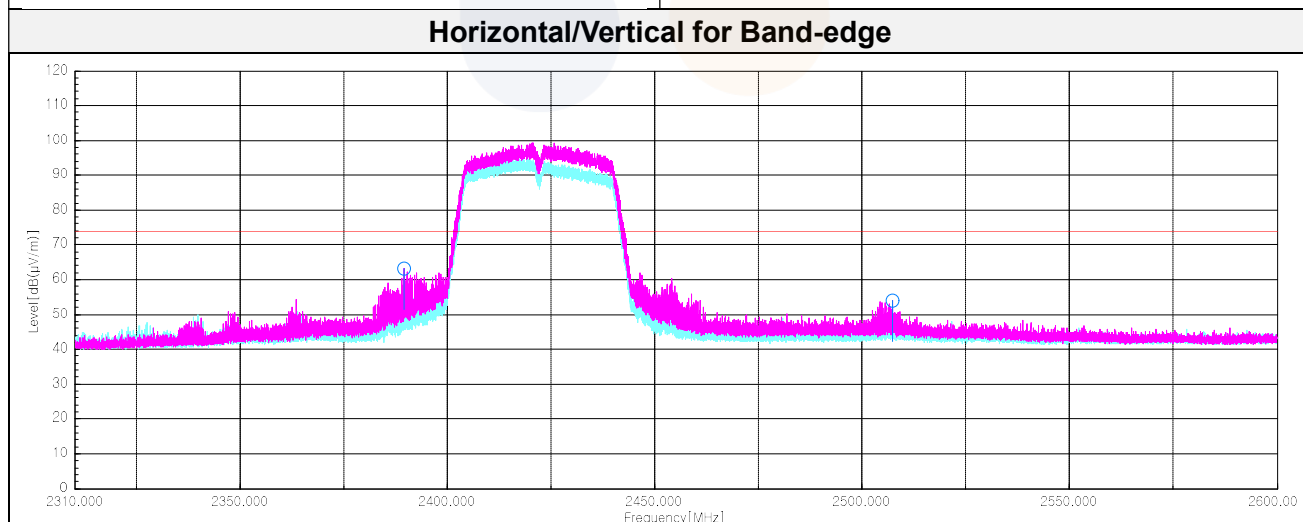
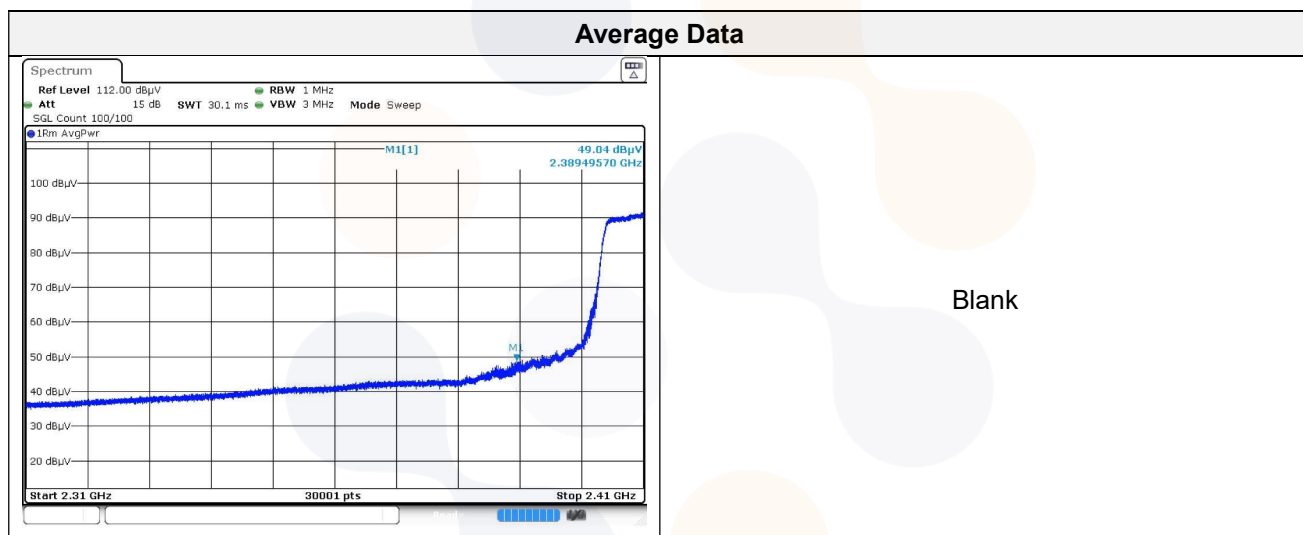
Horizontal/Vertical for 3.5 GHz ~ 18 GHz



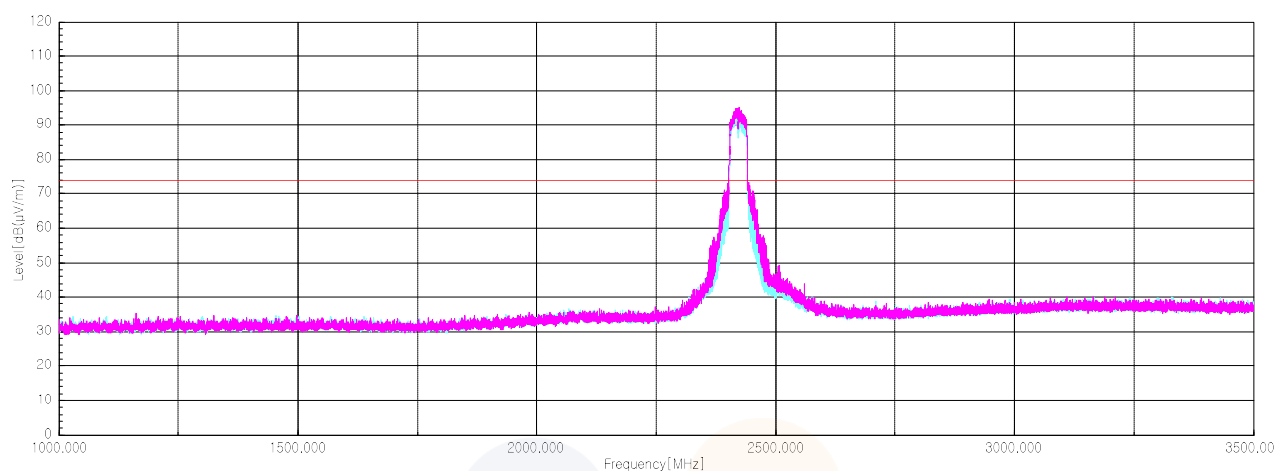
802.11n HT40

2 422 MHz

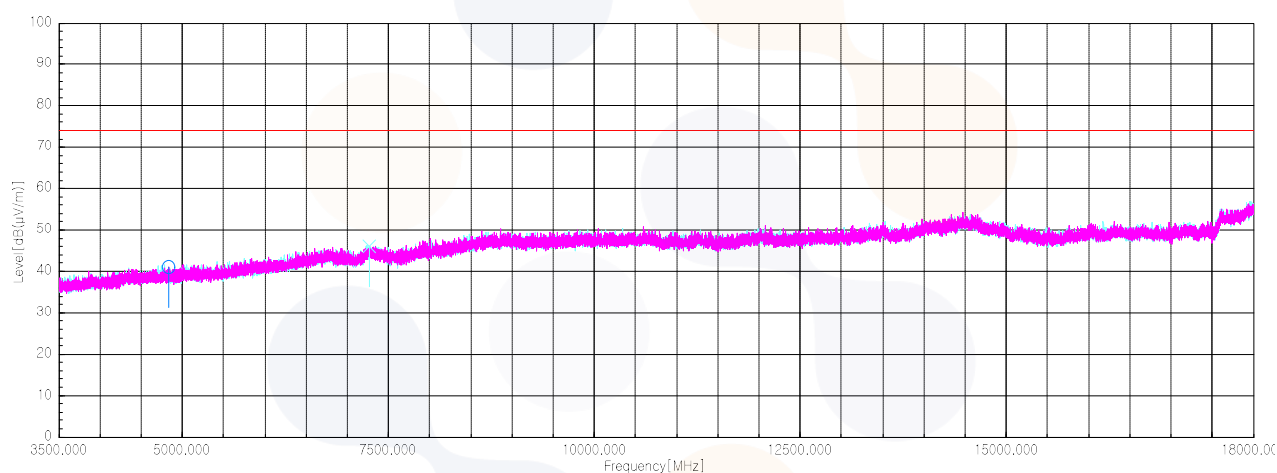
Frequency	Pol.	Reading	Ant. Factor	Amp. + Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
2 389.50 ¹⁾	H	66.30	27.10	-30.39	-	63.01	74.00	10.99
2 507.19	H	56.10	27.80	-30.20	-	53.70	74.00	20.30
4 838.35 ¹⁾	H	54.40	32.53	-45.97	-	40.96	74.00	33.04
7 263.72 ¹⁾	V	53.20	37.35	-44.40	-	46.15	74.00	27.85
Average Data								
2 389.50 ¹⁾	H	49.04	27.10	-30.39	0.67	46.42	54.00	7.58



Horizontal/Vertical for 1 GHz ~ 3.5 GHz



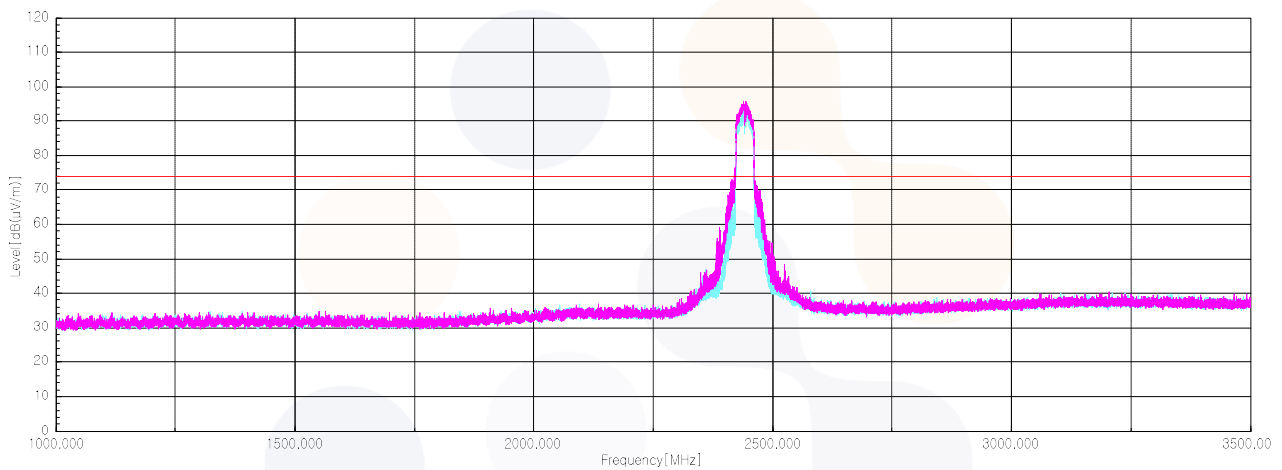
Horizontal/Vertical for 3.5 GHz ~ 18 GHz



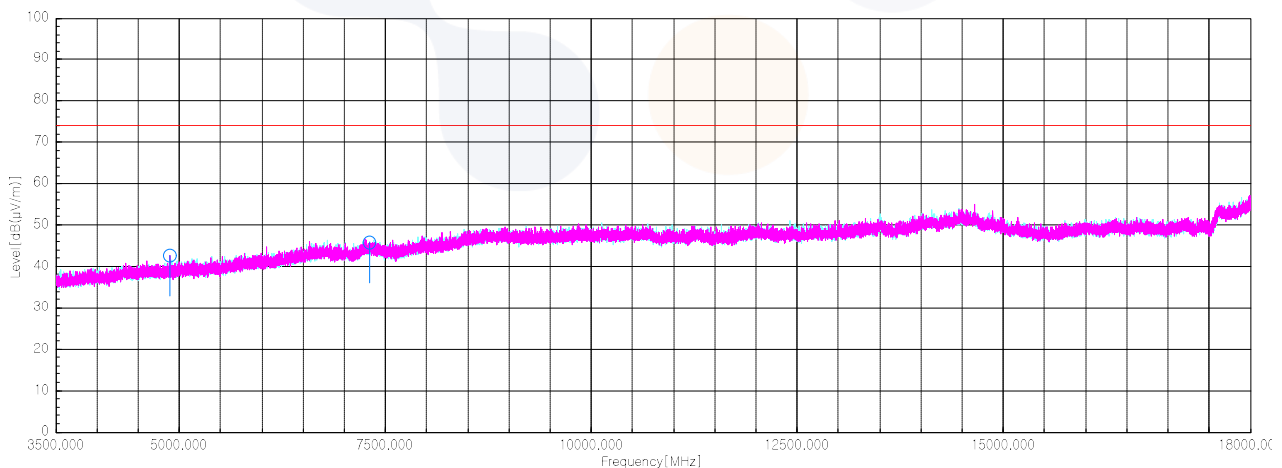
2 437 MHz

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								
4 880.88 ¹⁾	H	55.80	32.79	-45.78	-	42.81	74.00	31.19
7 311.08 ¹⁾	H	53.10	37.06	-44.31	-	45.85	74.00	28.15
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

Horizontal/Vertical for 1 GHz ~ 3.5 GHz

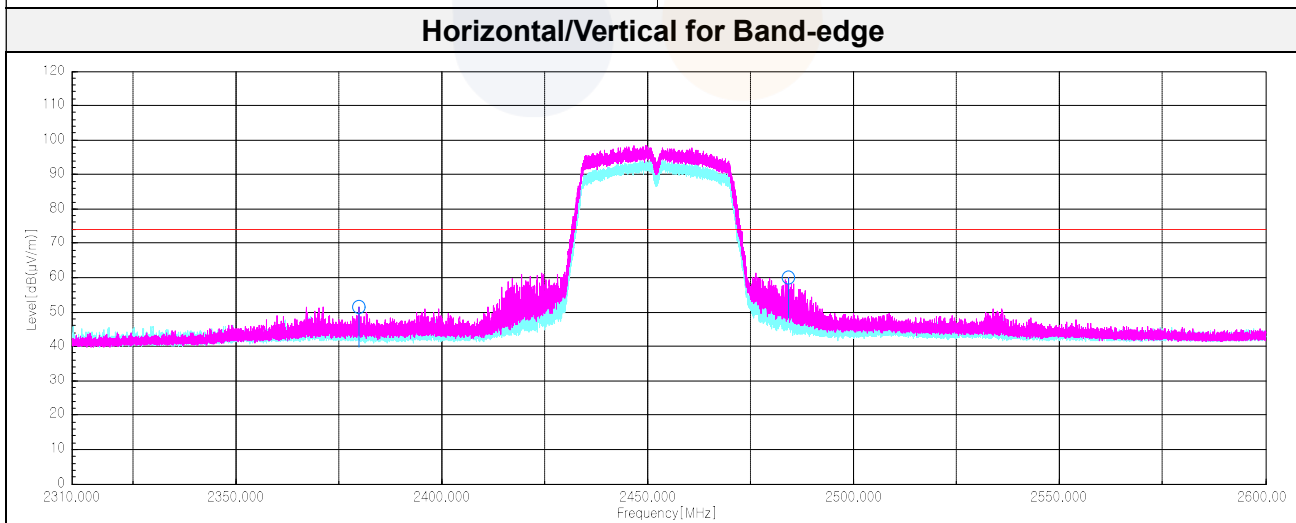
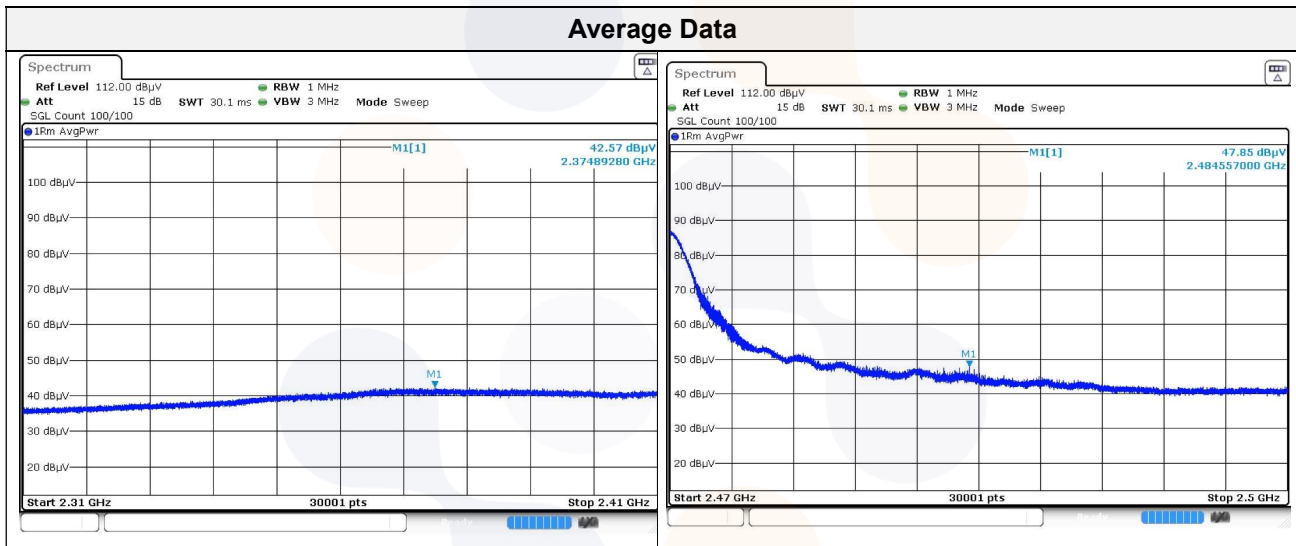


Horizontal/Vertical for 3.5 GHz ~ 18 GHz

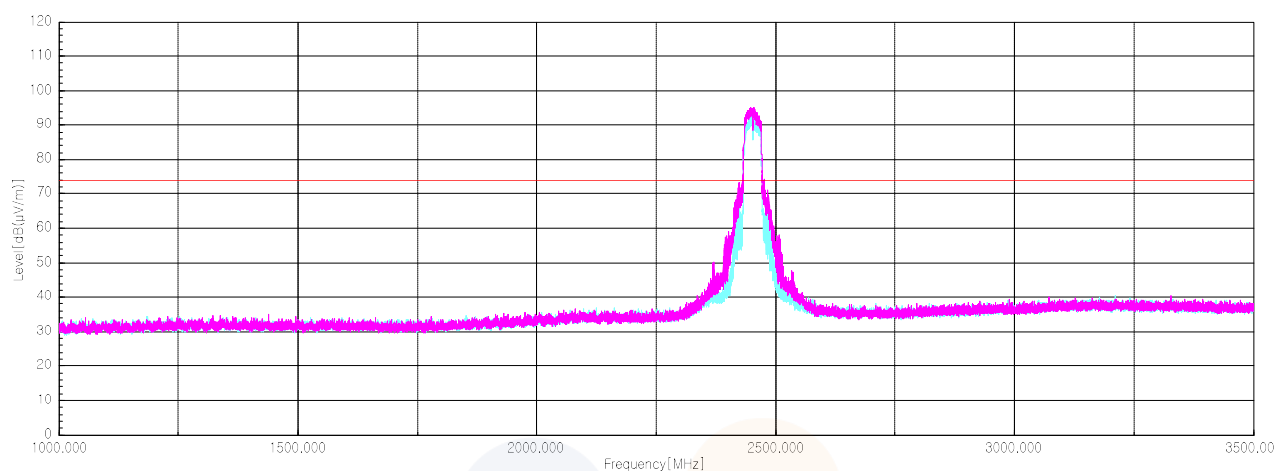


2 452 MHz

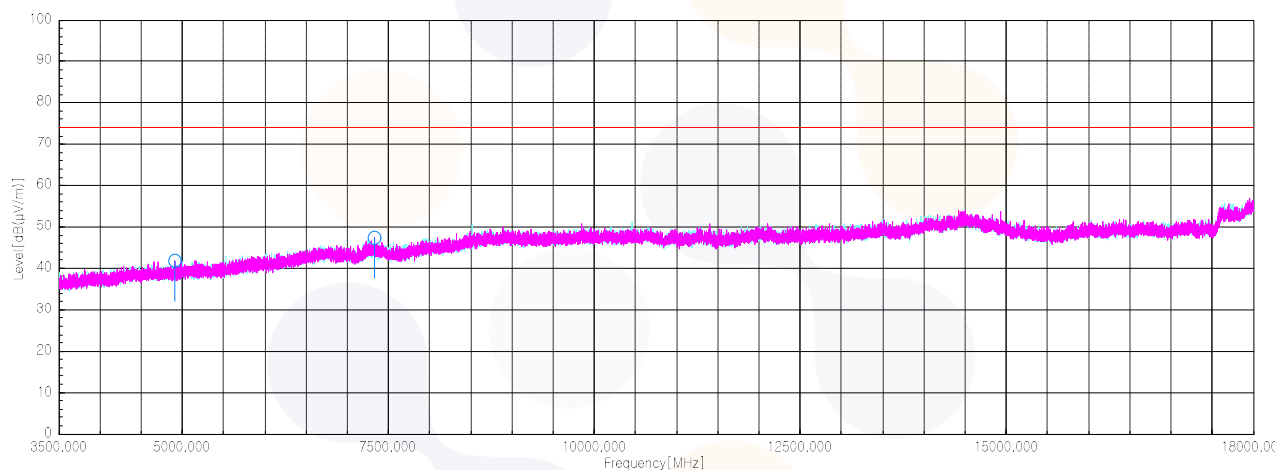
Frequency	Pol.	Reading	Ant. Factor	Amp. + Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
2 374.89 ¹⁾	H	54.90	27.15	-30.41	-	51.64	74.00	22.36
2 484.56 ¹⁾	H	62.60	27.70	-30.23	-	60.07	74.00	13.93
4 907.47 ¹⁾	H	54.90	32.71	-45.66	-	41.95	74.00	32.05
7 337.18 ¹⁾	H	54.50	36.95	-44.27	-	47.18	74.00	26.82
Average Data								
2 374.89 ¹⁾	H	42.57	27.15	-30.41	0.67	39.98	54.00	14.02
2 484.56 ¹⁾	H	47.85	27.70	-30.23	0.67	45.99	54.00	8.01



Horizontal/Vertical for 1 GHz ~ 3.5 GHz

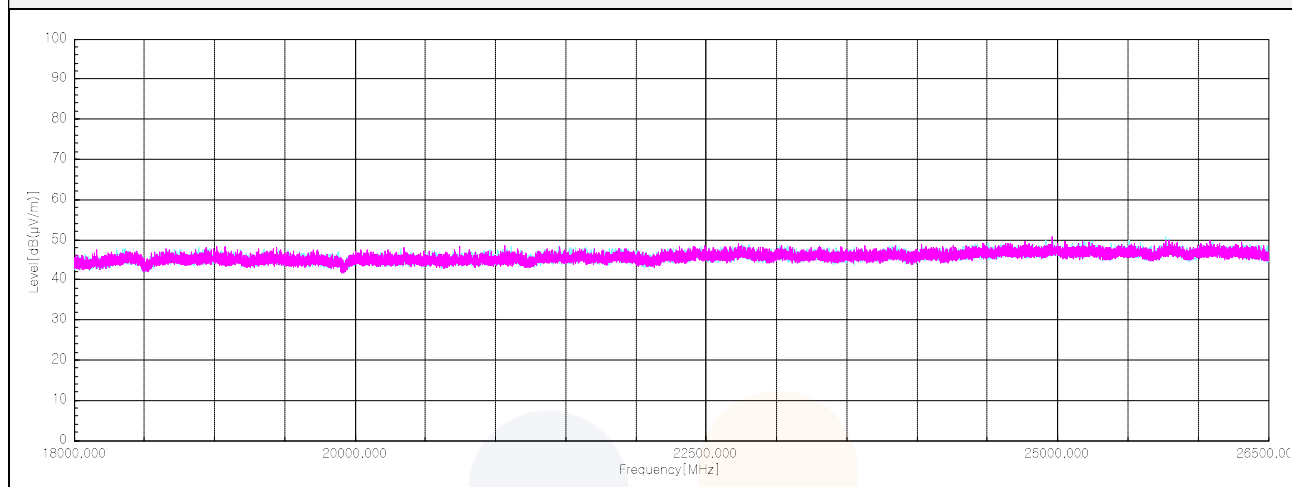


Horizontal/Vertical for 3.5 GHz ~ 18 GHz



Test results (Above 18 GHz) – Worst Case : 802.11n HT40 mode / 2 422 MHz

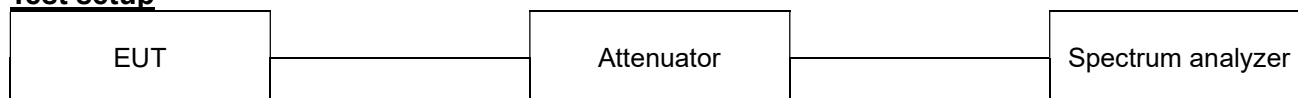
Horizontal/Vertical for 18 GHz ~ 26.5 GHz



Note: The Worst case was based on the lowest margin condition considering Harmonic and Spurious Emission.

7.5. Conducted Spurious Emission

Test setup



Limit

According to §15.247(d), In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operation, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation specified in §15.209(a) is not required. In addition, radiated emission limits specified in §15.209(a) (see §15.205(c)).

Limit : 20 dBc

Test procedure

ANSI C63.10 - Section 11.11.3, 14.3.3

Test settings

Establish an emission level by using the following procedure:

- 1) Set the center frequency and span to encompass frequency range to be measured.
- 2) Set the RBW = 100 kHz
- 3) Set the VBW $\geq [3 \times \text{RBW}]$
- 4) Detector = peak
- 5) Sweep time = auto couple
- 6) Trace mode = max hold
- 7) Allow trace to fully stabilize.
- 8) Use the peak marker function to determine the maximum amplitude level.

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum requirements specified in 11.11. Report the three highest emissions relative to the limit.