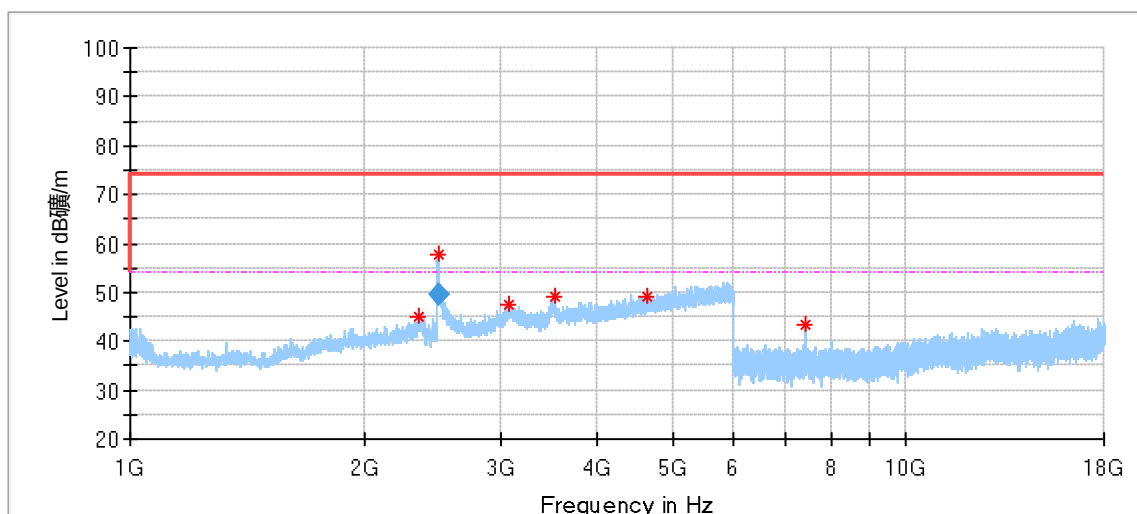


11g_2462MHz_ANT_B:

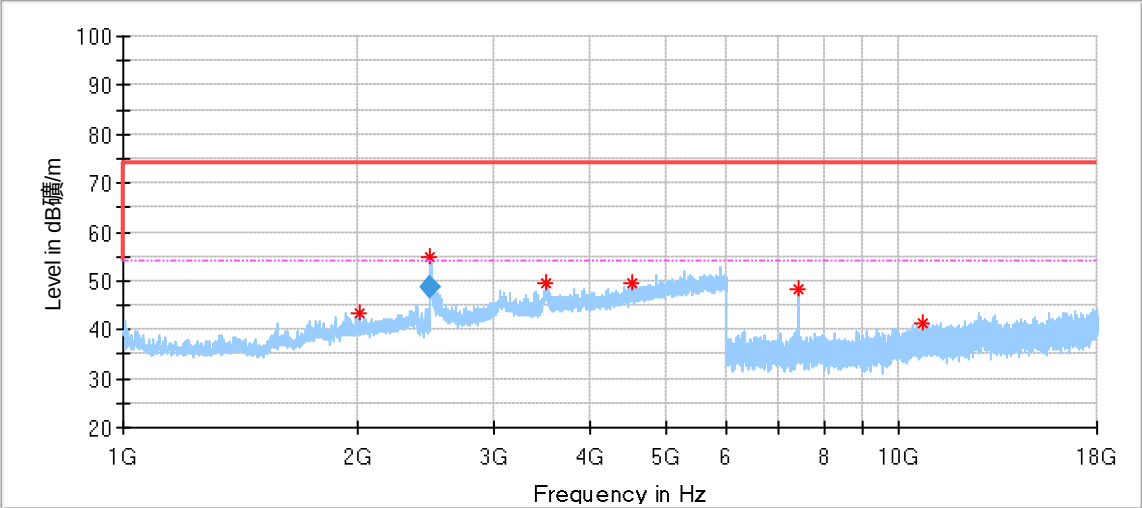


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2359.500000	45.01	74.00	29.00	150.0	H	296.0	-2.73
2492.500000	57.55	74.00	16.45	150.0	H	306.0	-1.84
3079.500000	47.60	74.00	26.40	150.0	H	193.0	1.52
3518.000000	49.12	74.00	24.88	150.0	H	224.0	3.57
4648.500000	49.13	74.00	24.87	150.0	H	244.0	4.44
7412.000000	43.34	74.00	30.66	150.0	H	118.0	6.54

Final_Result

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2492.500000	49.40	54.00	4.60	150.0	H	306.0	-1.84



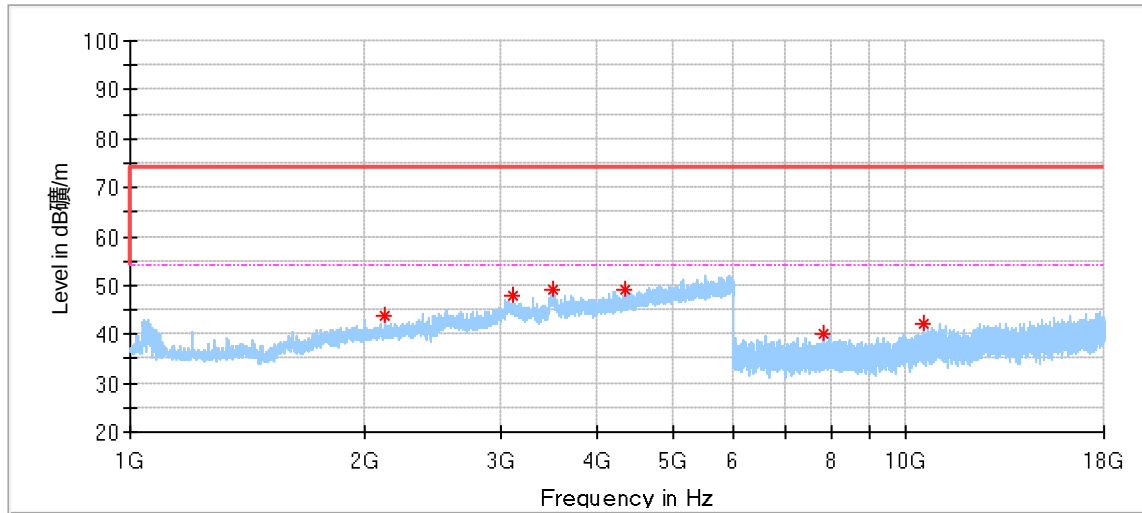
Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2017.000000	43.55	74.00	30.45	150.0	V	198.0	-4.03
2491.500000	54.74	74.00	19.26	150.0	V	228.0	-1.83
3501.500000	49.65	74.00	24.35	150.0	V	54.0	4.41
4527.000000	49.70	74.00	24.30	150.0	V	167.0	4.12
7413.000000	48.35	74.00	25.65	150.0	V	116.0	6.54
10733.000000	41.31	74.00	32.69	150.0	V	329.0	10.46

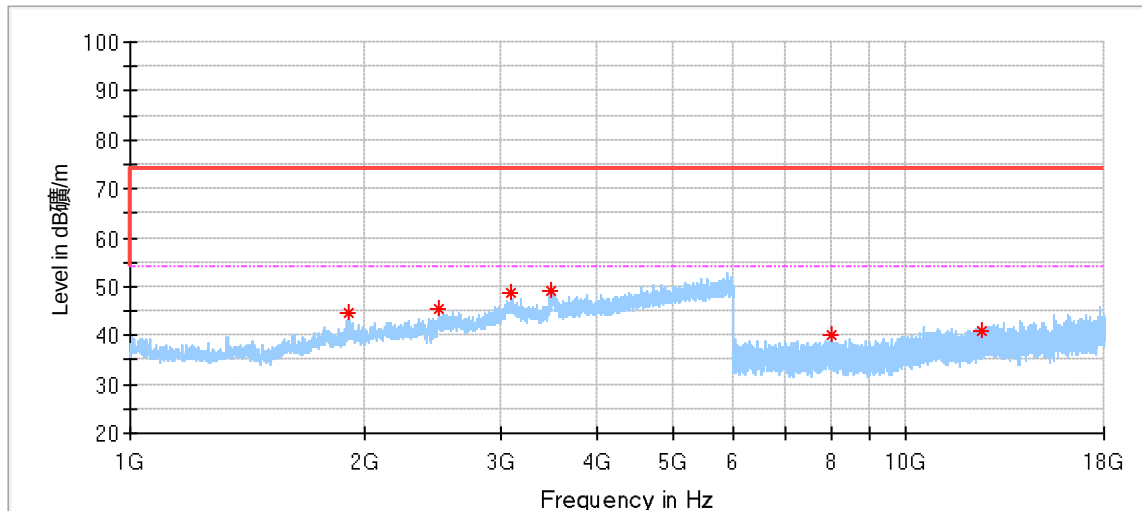
Final_Result

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2491.500000	48.52	54.00	5.48	150.0	V	228.0	-1.83

11g_2412MHz_ANT_A:

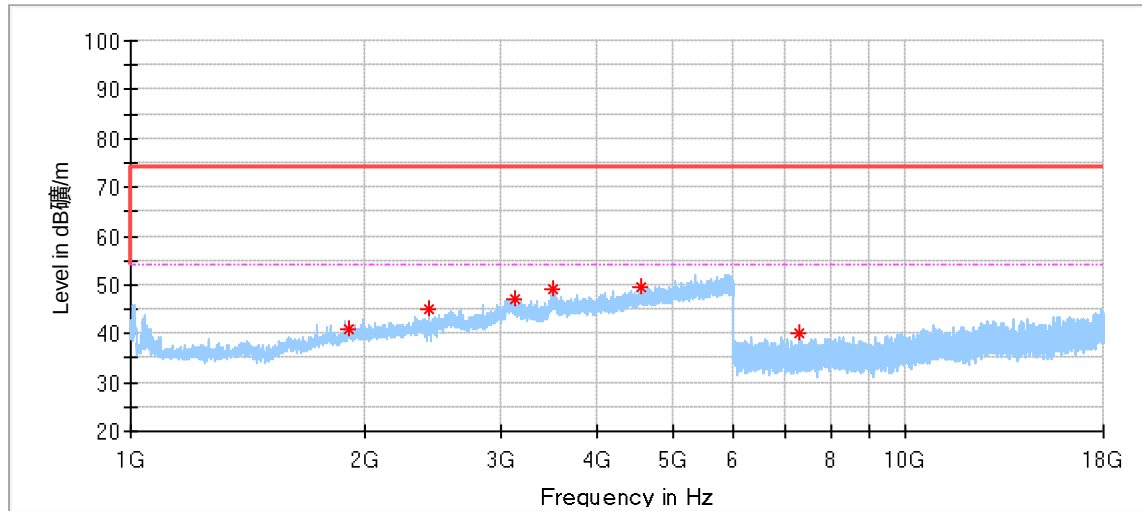


Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2134.000000	43.85	74.00	30.15	150.0	H	356.0	-3.60
3113.000000	47.82	74.00	26.18	150.0	H	2.0	1.47
3500.500000	49.29	74.00	24.71	150.0	H	47.0	4.46
4334.000000	48.96	74.00	25.04	150.0	H	337.0	3.13
7842.500000	40.03	74.00	33.97	150.0	H	177.0	7.26
10537.500000	41.96	74.00	32.04	150.0	H	240.0	10.10

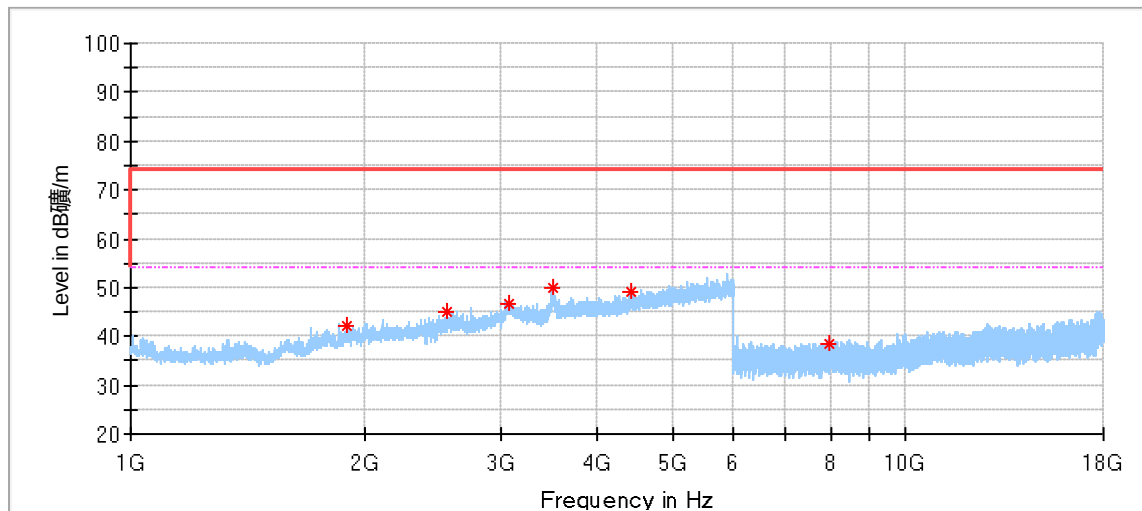


Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1917.000000	44.55	74.00	29.45	150.0	V	183.0	-4.61
2500.000000	45.27	74.00	28.73	150.0	V	7.0	-1.85
3096.000000	48.70	74.00	25.30	150.0	V	193.0	1.62
3492.000000	49.32	74.00	24.68	150.0	V	68.0	3.87
8010.000000	40.10	74.00	33.90	150.0	V	4.0	7.47
12494.500000	41.08	74.00	32.92	150.0	V	219.0	12.41

11g_2437MHz_ANT_A:

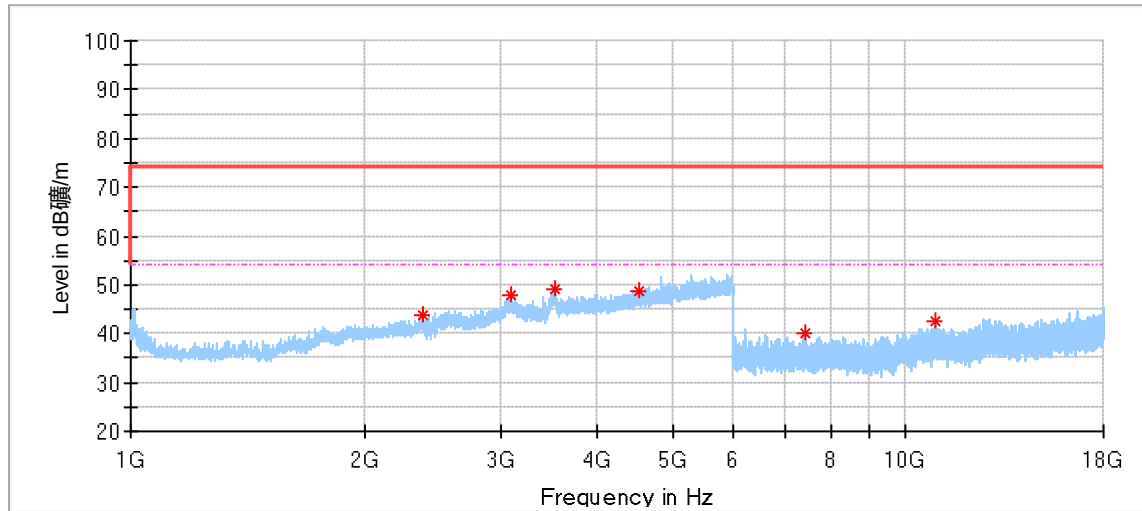


Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1911.500000	41.05	74.00	32.95	150.0	H	16.0	-4.62
2424.000000	45.20	74.00	28.80	150.0	H	27.0	-2.07
3129.500000	47.08	74.00	26.92	150.0	H	47.0	1.28
3508.000000	49.27	74.00	24.73	150.0	H	326.0	4.08
4550.000000	49.57	74.00	24.43	150.0	H	7.0	4.29
7306.500000	39.99	74.00	34.01	150.0	H	156.0	6.66

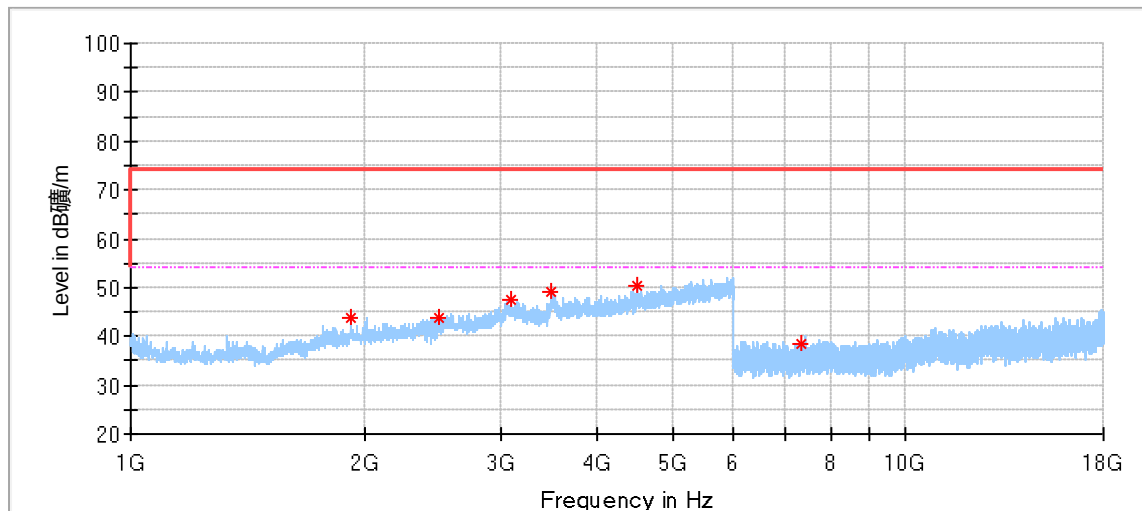


Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1898.500000	42.07	74.00	31.93	150.0	V	326.0	-4.88
2560.000000	45.11	74.00	28.89	150.0	V	132.0	-1.29
3082.000000	46.74	74.00	27.26	150.0	V	356.0	1.54
3500.500000	49.83	74.00	24.17	150.0	V	57.0	4.46
4430.500000	49.04	74.00	24.96	150.0	V	132.0	3.59
7973.000000	38.49	74.00	35.51	150.0	V	303.0	7.38

11g_2462MHz_ANT_A:

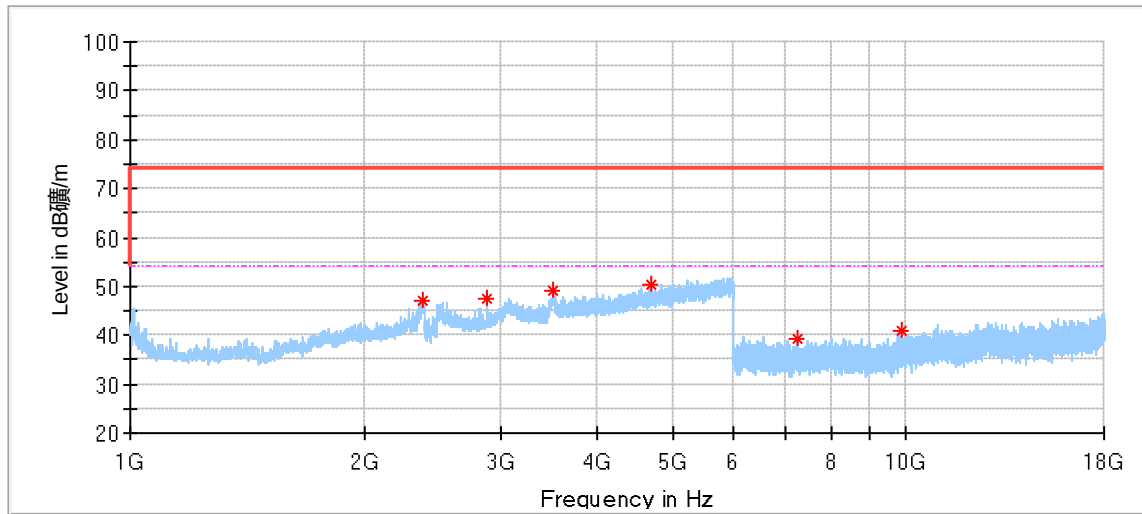


Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2387.000000	43.60	74.00	30.40	150.0	H	265.0	-2.47
3088.500000	47.89	74.00	26.11	150.0	H	224.0	1.58
3520.500000	48.94	74.00	25.06	150.0	H	9.0	3.45
4537.000000	48.66	74.00	25.34	150.0	H	255.0	4.19
7410.000000	40.22	74.00	33.78	150.0	H	159.0	6.53
10917.000000	42.47	74.00	31.53	150.0	H	359.0	10.85

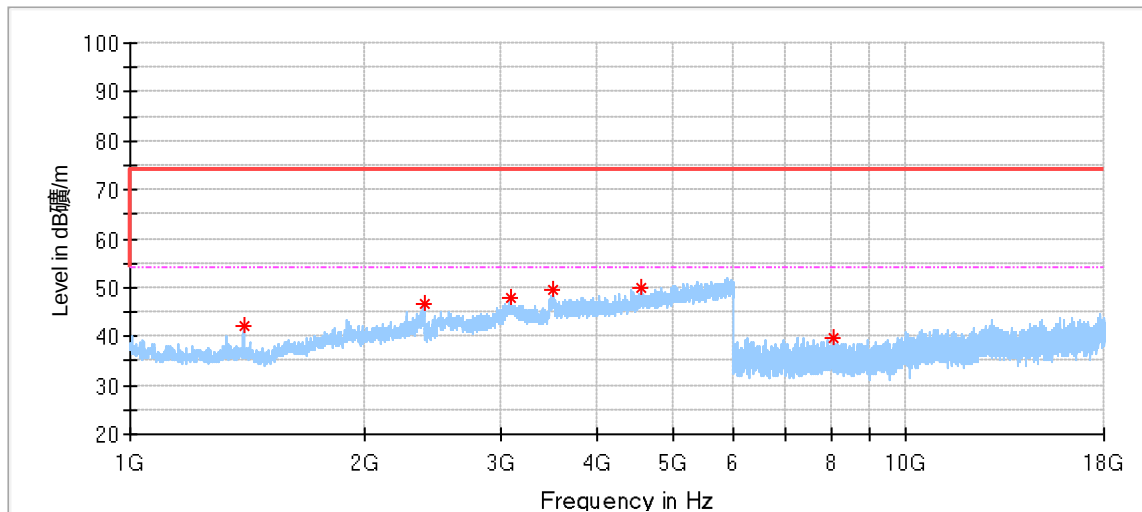


Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1922.000000	43.81	74.00	30.19	150.0	V	183.0	-4.59
2493.000000	43.78	74.00	30.22	150.0	V	326.0	-1.84
3101.000000	47.60	74.00	26.40	150.0	V	337.0	1.63
3494.500000	48.99	74.00	25.01	150.0	V	39.0	4.06
4513.000000	50.45	74.00	23.55	150.0	V	326.0	4.02
7317.500000	38.53	74.00	35.47	150.0	V	324.0	6.70

11n20_2412MHz_ANT_B+ANT_A:

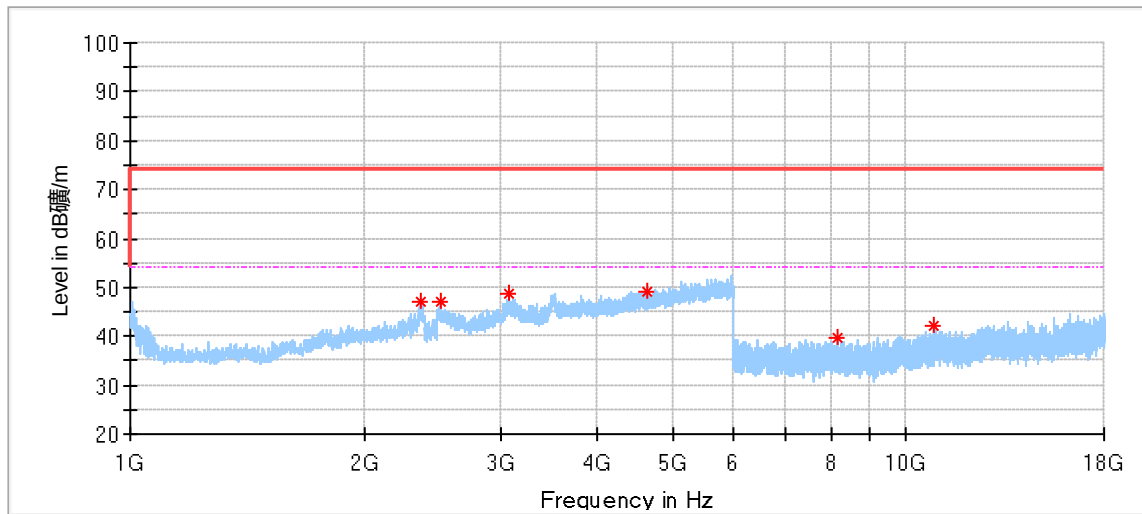


Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2386.500000	47.25	74.00	26.75	150.0	H	296.0	-2.48
2885.500000	47.36	74.00	26.64	150.0	H	265.0	-0.95
3508.500000	49.32	74.00	24.68	150.0	H	101.0	4.06
4687.500000	50.38	74.00	23.62	150.0	H	152.0	4.48
7227.500000	39.29	74.00	34.71	150.0	H	28.0	6.40
9862.000000	40.84	74.00	33.16	150.0	H	51.0	9.36

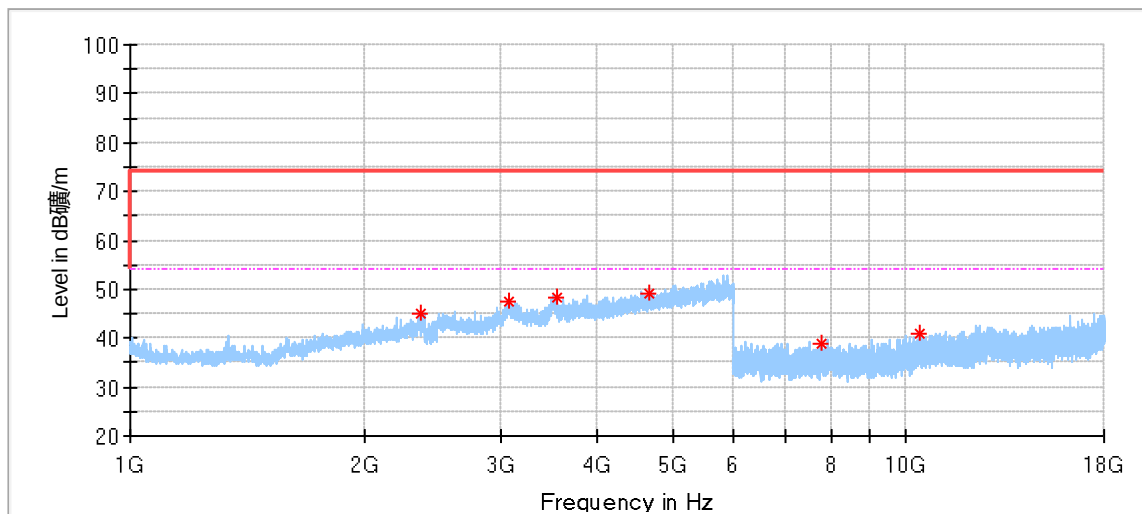


Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1399.500000	42.14	74.00	31.86	150.0	V	101.0	-7.98
2392.000000	46.47	74.00	27.53	150.0	V	265.0	-2.43
3088.500000	47.80	74.00	26.20	150.0	V	70.0	1.58
3502.500000	49.42	74.00	24.58	150.0	V	0.0	4.36
4553.000000	50.10	74.00	23.90	150.0	V	27.0	4.30
8078.500000	39.60	74.00	34.40	150.0	V	4.0	7.50

11n20_2437MHz_ANT_B+ANT_A:

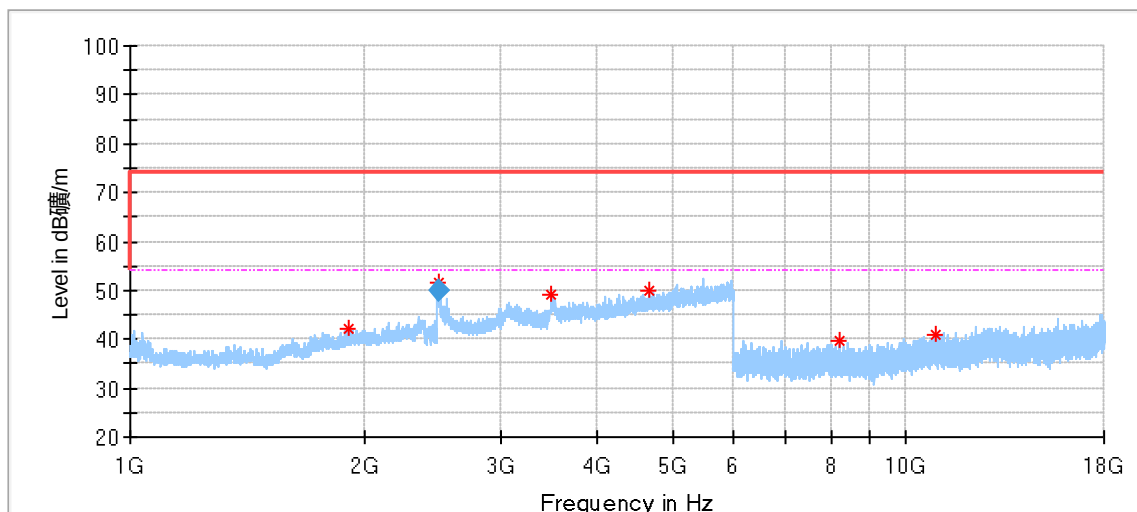


Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2370.500000	47.23	74.00	26.78	150.0	H	306.0	-2.62
2513.000000	47.19	74.00	26.81	150.0	H	296.0	-1.76
3071.000000	48.69	74.00	25.31	150.0	H	152.0	1.55
4650.000000	49.13	74.00	24.87	150.0	H	173.0	4.44
8171.000000	39.76	74.00	34.24	150.0	H	219.0	7.35
10883.000000	42.36	74.00	31.64	150.0	H	324.0	10.83



Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2369.000000	45.15	74.00	28.85	150.0	V	255.0	-2.64
3078.000000	47.35	74.00	26.65	150.0	V	88.0	1.52
3544.000000	48.27	74.00	25.73	150.0	V	119.0	2.22
4661.000000	49.19	74.00	24.81	150.0	V	326.0	4.44
7762.500000	38.75	74.00	35.25	150.0	V	136.0	7.10
10444.000000	41.07	74.00	32.93	150.0	V	28.0	10.13

11n20_2462MHz_ANT_B+ANT_A:

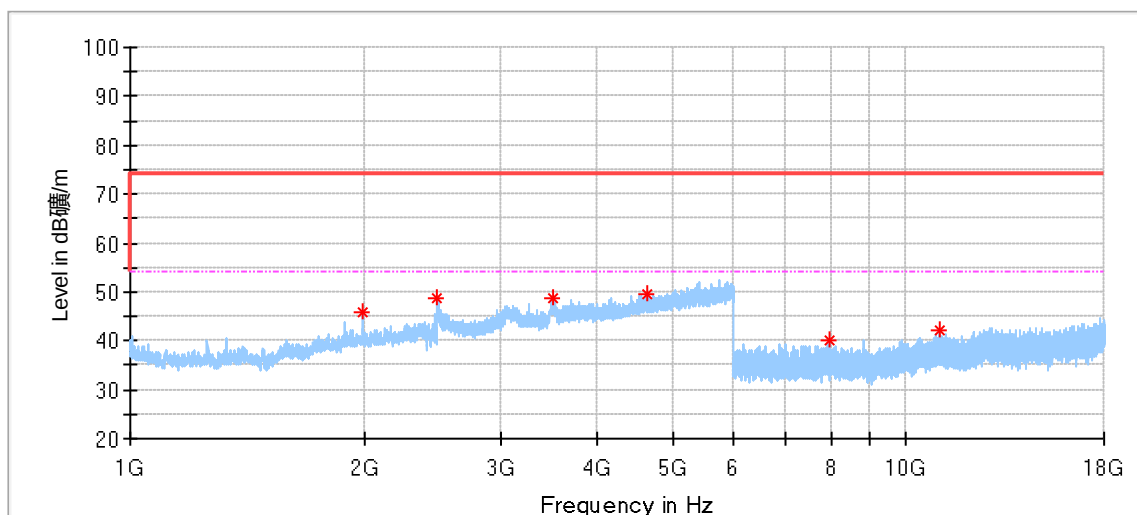


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1911.000000	42.11	74.00	31.89	150.0	H	304.0	-4.63
2492.000000	51.63	74.00	22.37	150.0	H	304.0	-1.84
3491.500000	48.94	74.00	25.06	150.0	H	140.0	3.84
4671.500000	49.99	74.00	24.01	150.0	H	263.0	4.44
8218.000000	39.68	74.00	34.32	150.0	H	28.0	7.40
10916.000000	40.93	74.00	33.07	150.0	H	347.0	10.85

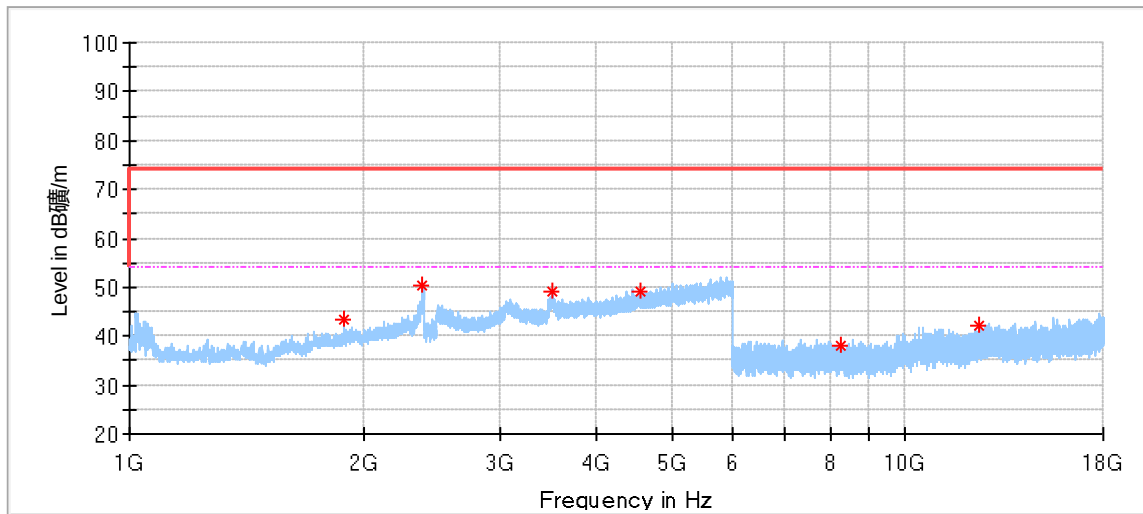
Final_Result

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2492.000000	49.96	54.00	4.04	150.0	H	304.0	-1.84

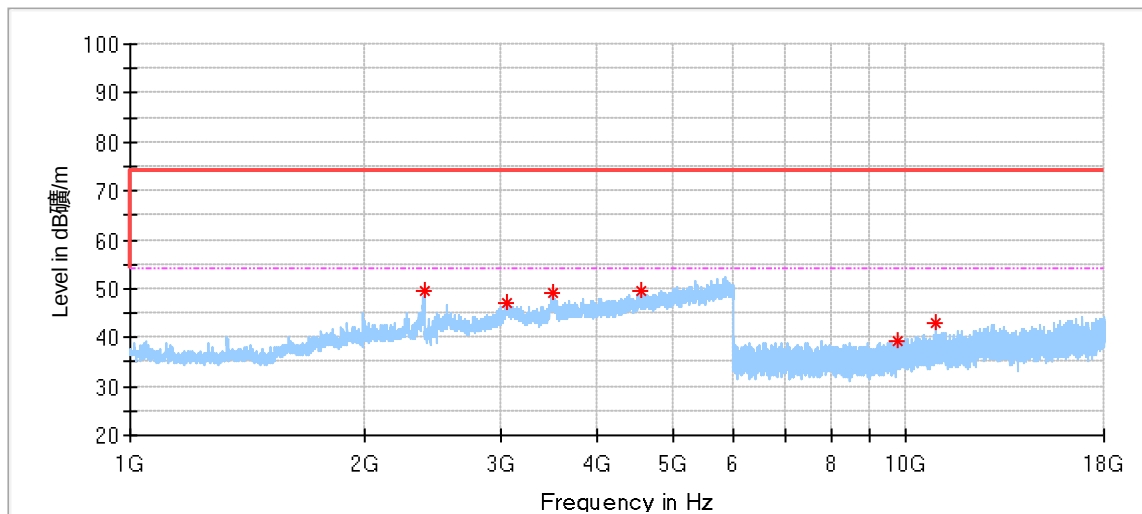


Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1992.500000	45.97	74.00	28.03	150.0	V	3.0	-4.12
2491.000000	48.56	74.00	25.44	150.0	V	244.0	-1.83
3499.500000	48.70	74.00	25.30	150.0	V	132.0	4.44
4631.500000	49.35	74.00	24.65	150.0	V	173.0	4.43
7980.000000	40.02	74.00	33.98	150.0	V	180.0	7.40
11059.500000	42.15	74.00	31.85	150.0	V	347.0	10.90

11n40_2422MHz_ANT_B+ANT_A:

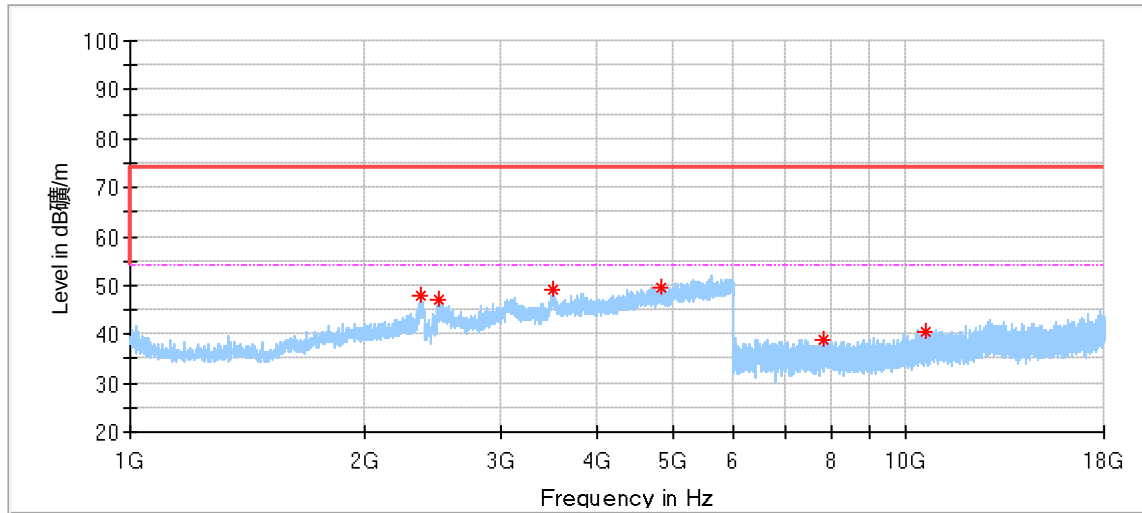


Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1893.000000	43.47	74.00	30.53	150.0	H	285.0	-4.99
2389.500000	50.55	74.00	23.45	150.0	H	173.0	-2.45
3517.000000	48.97	74.00	25.03	150.0	H	224.0	3.63
4565.500000	49.33	74.00	24.67	150.0	H	0.0	4.33
8241.000000	38.18	74.00	35.82	150.0	H	261.0	7.45
12484.000000	42.08	74.00	31.92	150.0	H	156.0	12.38

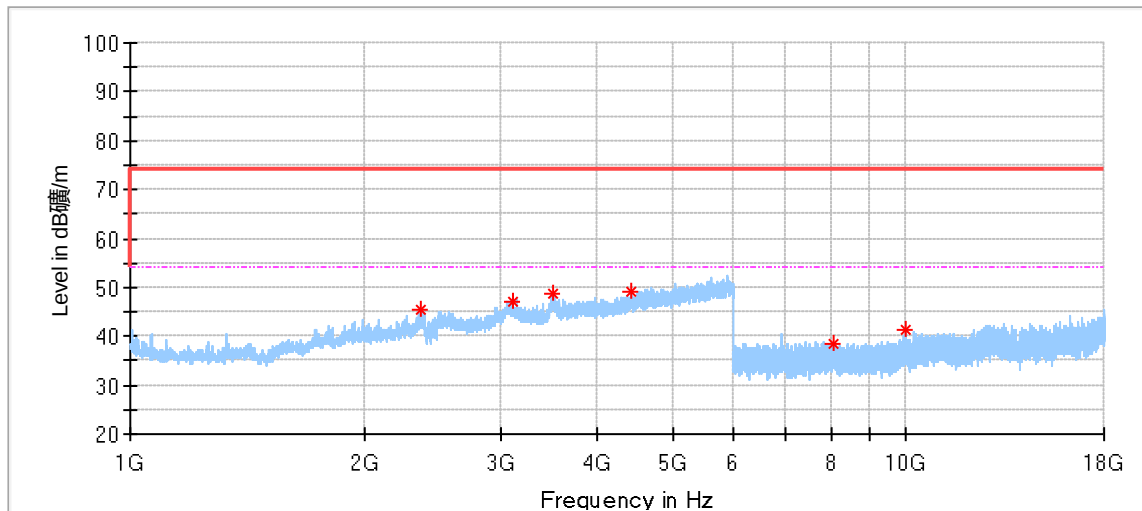


Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2391.500000	49.37	74.00	24.63	150.0	V	264.0	-2.43
3058.000000	47.22	74.00	26.78	150.0	V	89.0	1.62
3506.000000	48.93	74.00	25.07	150.0	V	223.0	4.19
4565.500000	49.71	74.00	24.29	150.0	V	161.0	4.33
9735.500000	39.24	74.00	34.76	150.0	V	222.0	9.15
10899.000000	43.15	74.00	30.85	150.0	V	326.0	10.86

11n40_2437MHz_ANT_B+ANT_A:

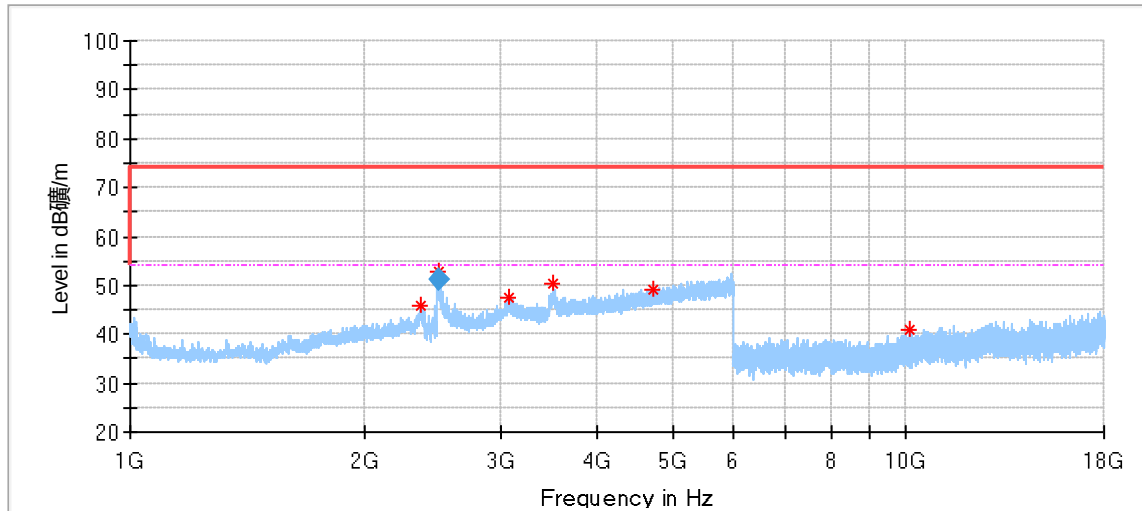


Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2368.500000	47.79	74.00	26.21	150.0	H	306.0	-2.64
2504.000000	47.09	74.00	26.91	150.0	H	296.0	-1.82
3502.500000	49.21	74.00	24.79	150.0	H	98.0	4.36
4826.000000	49.72	74.00	24.28	150.0	H	214.0	5.03
7838.000000	38.88	74.00	35.12	150.0	H	177.0	7.25
10589.500000	40.65	74.00	33.35	150.0	H	326.0	10.15



Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2369.000000	45.29	74.00	28.71	150.0	V	242.0	-2.64
3116.000000	47.23	74.00	26.77	150.0	V	252.0	1.43
3517.000000	48.66	74.00	25.34	150.0	V	293.0	3.63
4430.000000	49.05	74.00	24.95	150.0	V	283.0	3.59
8063.000000	38.59	74.00	35.41	150.0	V	94.0	7.49
9999.500000	41.40	74.00	32.60	150.0	V	156.0	9.53

11n40_2452MHz_ANT_B+ANT_A:

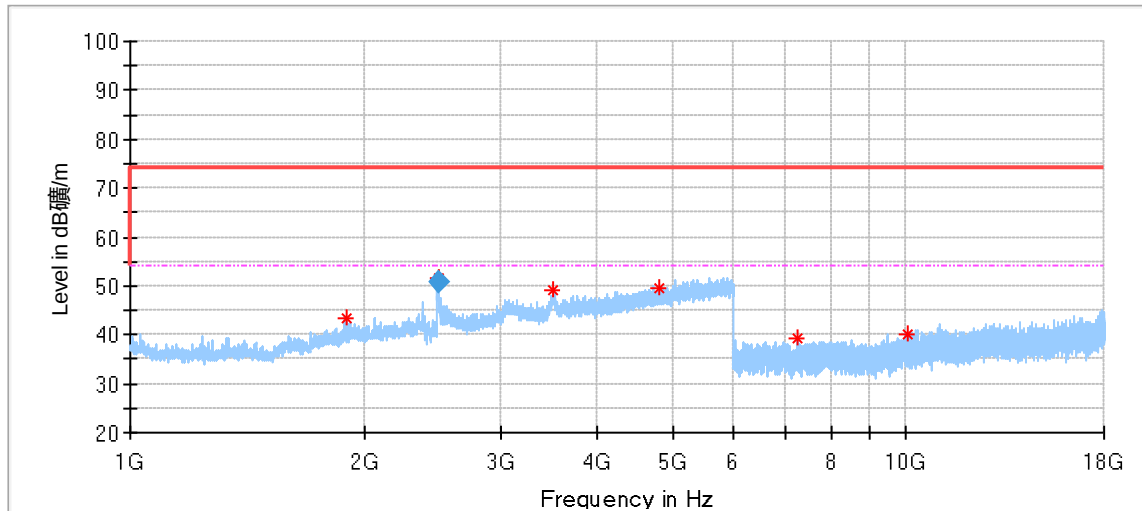


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2365.500000	45.83	74.00	28.17	150.0	H	285.0	-2.67
2498.000000	52.82	74.00	21.18	150.0	H	285.0	-1.85
3071.000000	47.28	74.00	26.72	150.0	H	316.0	1.55
3508.000000	50.40	74.00	23.60	150.0	H	296.0	4.08
4710.500000	49.18	74.00	24.82	150.0	H	255.0	4.53
10137.500000	40.78	74.00	33.22	150.0	H	282.0	9.59

Final_Result

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2498.000000	50.99	54.00	3.01	150.0	H	285.0	-1.85



Critical_Freqs

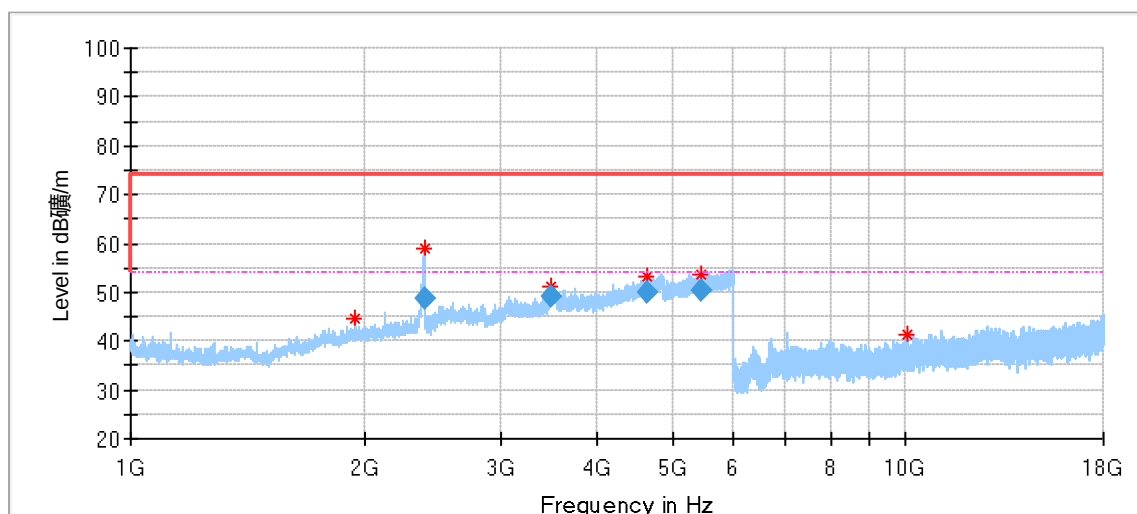
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1903.500000	43.57	74.00	30.43	150.0	V	183.0	-4.77
2495.000000	51.41	74.00	22.59	150.0	V	265.0	-1.84
3504.000000	49.00	74.00	25.00	150.0	V	80.0	4.29
4801.500000	49.45	74.00	24.55	150.0	V	142.0	4.92
7246.000000	39.20	74.00	34.80	150.0	V	219.0	6.44
10020.500000	40.17	74.00	33.83	150.0	V	73.0	9.54

Final_Result

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2495.000000	50.61	54.00	3.39	150.0	V	265.0	-1.84

For ESP32-S3-WROOM-1U Module:

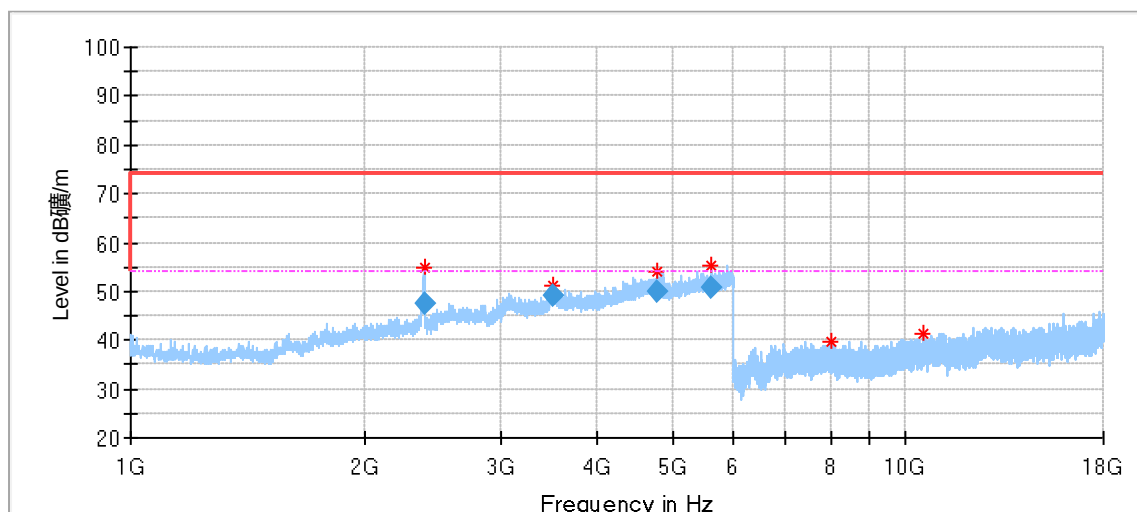
11b_2412MHz_ANT_C:

**Critical Freqs**

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1952.000000	44.43	74.00	29.57	150.0	H	203.0	-4.33
2390.500000	59.02	74.00	14.98	150.0	H	337.0	-2.44
3495.000000	51.38	74.00	22.62	150.0	H	316.0	4.10
4626.000000	53.23	74.00	20.77	150.0	H	285.0	4.42
5451.000000	53.74	74.00	20.26	150.0	H	296.0	6.81
10036.000000	41.46	74.00	32.54	150.0	H	115.0	9.55

Final Result

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2390.500000	48.56	54.00	5.44	150.0	H	337.0	-2.44
3495.000000	49.30	54.00	4.70	150.0	H	316.0	4.10
4626.000000	50.03	54.00	3.97	150.0	H	285.0	4.42
5451.000000	50.48	54.00	3.52	150.0	H	296.0	6.81



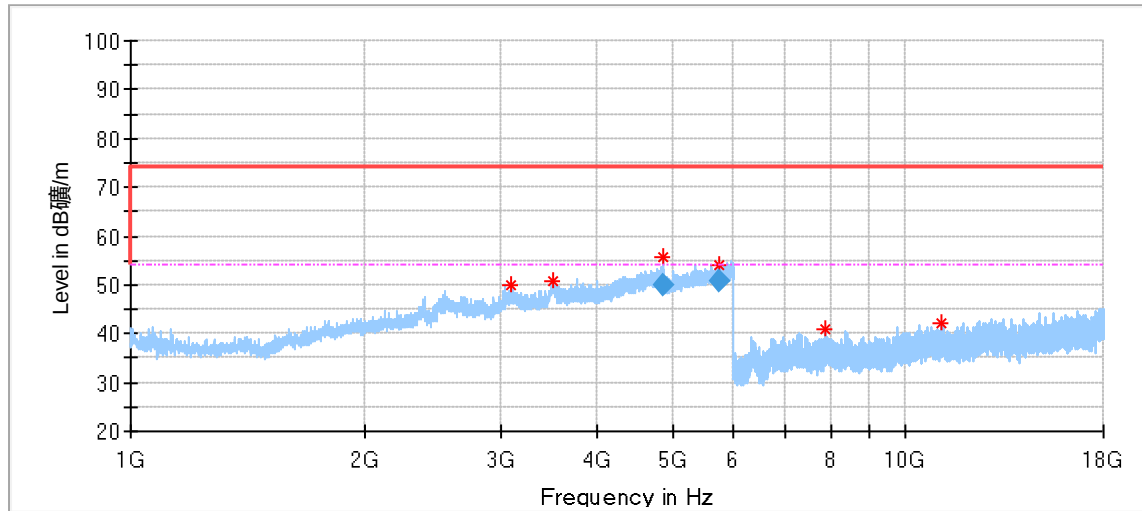
Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2390.000000	54.67	74.00	19.33	150.0	V	27.0	-2.45
3500.500000	51.22	74.00	22.78	150.0	V	88.0	4.46
4765.500000	53.91	74.00	20.09	150.0	V	191.0	4.71
5600.000000	55.23	74.00	18.77	150.0	V	326.0	7.11
8015.500000	39.72	74.00	34.28	150.0	V	264.0	7.47
10511.000000	41.30	74.00	32.70	150.0	V	4.0	10.09

Final_Result

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2390.000000	47.36	54.00	6.64	150.0	V	27.0	-2.45
3500.500000	49.33	54.00	4.67	150.0	V	88.0	4.46
4765.500000	50.05	54.00	3.95	150.0	V	191.0	4.71
5600.000000	50.90	54.00	3.10	150.0	V	326.0	7.11

11b_2437MHz_ANT_C:

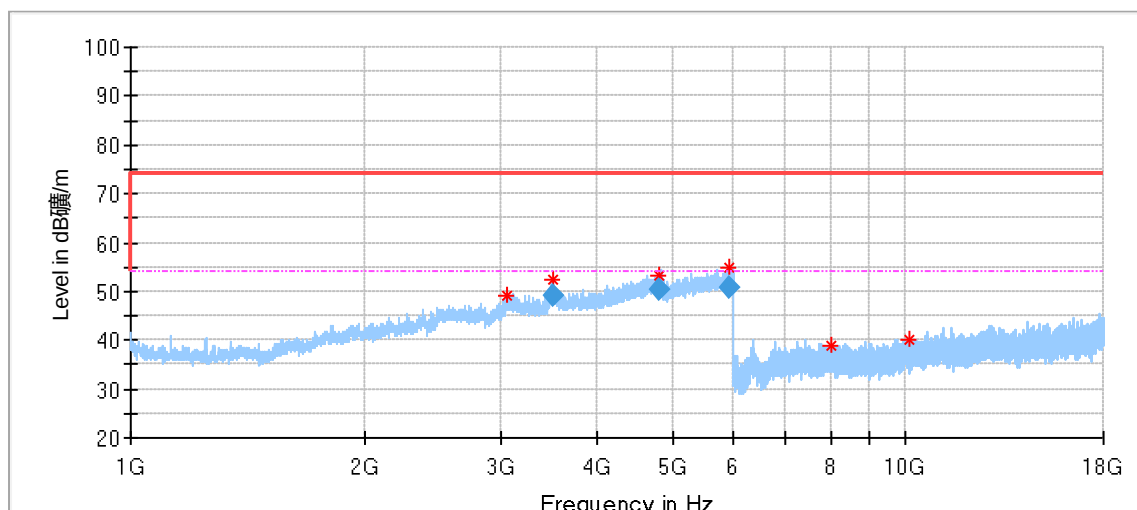


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3097.500000	50.00	74.00	24.00	150.0	H	0.0	1.63
3515.500000	50.90	74.00	23.10	150.0	H	290.0	3.70
4874.000000	55.84	74.00	18.16	150.0	H	95.0	5.09
5743.000000	54.08	74.00	19.92	150.0	H	269.0	7.27
7867.000000	40.76	74.00	33.24	150.0	H	74.0	7.25
11126.000000	42.29	74.00	31.71	150.0	H	243.0	11.00

Final Result

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4874.000000	50.04	54.00	3.96	150.0	H	95.0	5.09
5743.000000	50.63	54.00	3.37	150.0	H	269.0	7.27



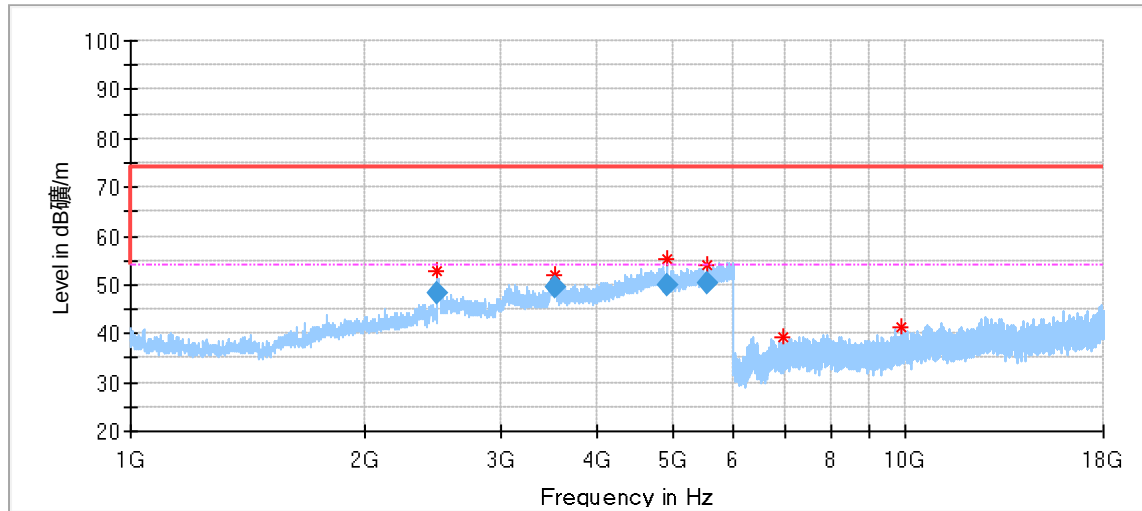
Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3063.000000	48.98	74.00	25.02	150.0	V	85.0	1.59
3500.000000	52.34	74.00	21.66	150.0	V	23.0	4.48
4793.500000	53.20	74.00	20.80	150.0	V	0.0	4.87
5921.500000	54.70	74.00	19.30	150.0	V	357.0	7.97
8001.000000	38.97	74.00	35.03	150.0	V	266.0	7.47
10099.000000	40.29	74.00	33.71	150.0	V	78.0	9.56

Final_Result

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3500.000000	49.15	54.00	4.85	150.0	V	23.0	4.48
4793.500000	50.24	54.00	3.76	150.0	V	0.0	4.87
5921.500000	50.58	54.00	3.42	150.0	V	357.0	7.97

11b_2462MHz_ANT_C:

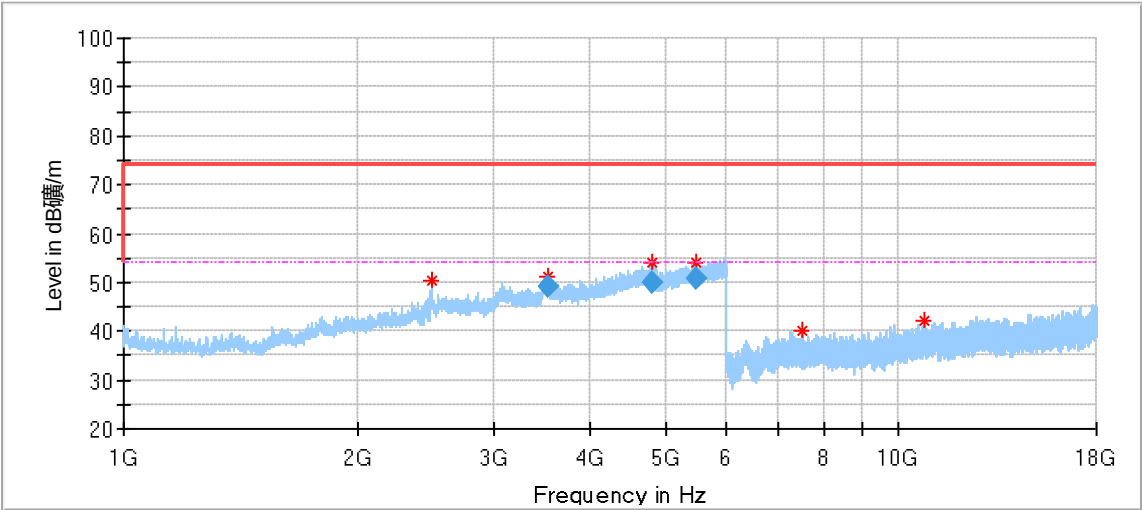


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2490.500000	52.62	74.00	21.38	150.0	H	342.0	-1.83
3520.500000	51.98	74.00	22.02	150.0	H	46.0	3.45
4924.000000	55.32	74.00	18.68	150.0	H	249.0	5.12
5540.500000	54.09	74.00	19.91	150.0	H	6.0	6.96
6957.000000	39.41	74.00	34.59	150.0	H	263.0	6.26
9848.000000	41.53	74.00	32.47	150.0	H	53.0	9.35

Final Result

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2490.500000	48.32	54.00	5.68	150.0	H	342.0	-1.83
3520.500000	49.38	54.00	4.62	150.0	H	46.0	3.45
4924.000000	49.96	54.00	4.04	150.0	H	249.0	5.12
5540.500000	50.44	54.00	3.56	150.0	H	6.0	6.96



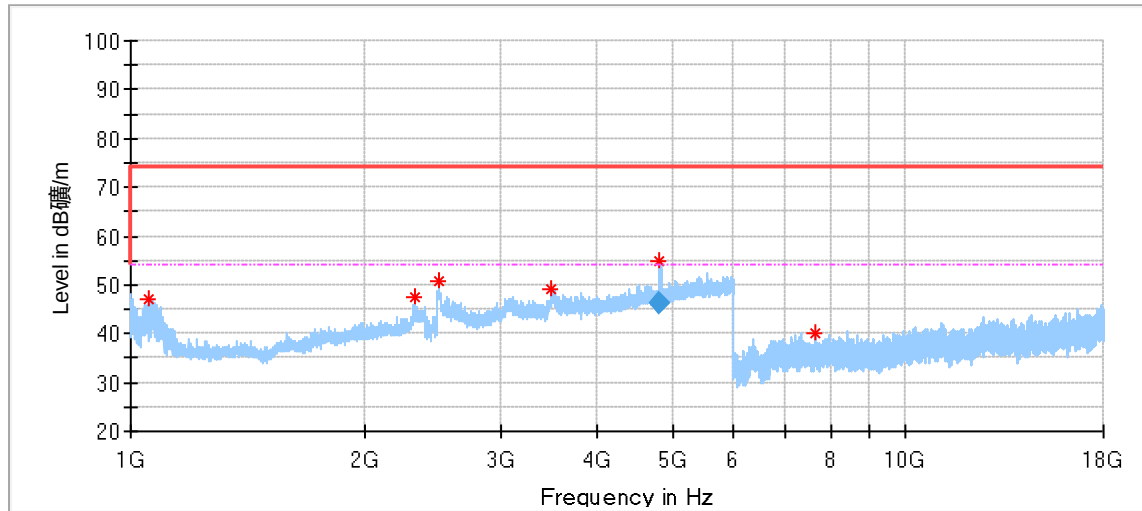
Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2499.000000	50.20	74.00	23.80	150.0	V	223.0	-1.85
3518.500000	51.11	74.00	22.89	150.0	V	284.0	3.55
4793.000000	53.85	74.00	20.15	150.0	V	77.0	4.87
5481.500000	53.90	74.00	20.10	150.0	V	354.0	6.77
7530.500000	39.96	74.00	34.04	150.0	V	287.0	6.86
10790.500000	41.99	74.00	32.01	150.0	V	160.0	10.58

Final_Result

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3518.500000	49.33	54.00	4.67	150.0	V	284.0	3.55
4793.000000	50.10	54.00	3.90	150.0	V	77.0	4.87
5481.500000	50.59	54.00	3.41	150.0	V	354.0	6.77

11g_2412MHz_ANT_C:

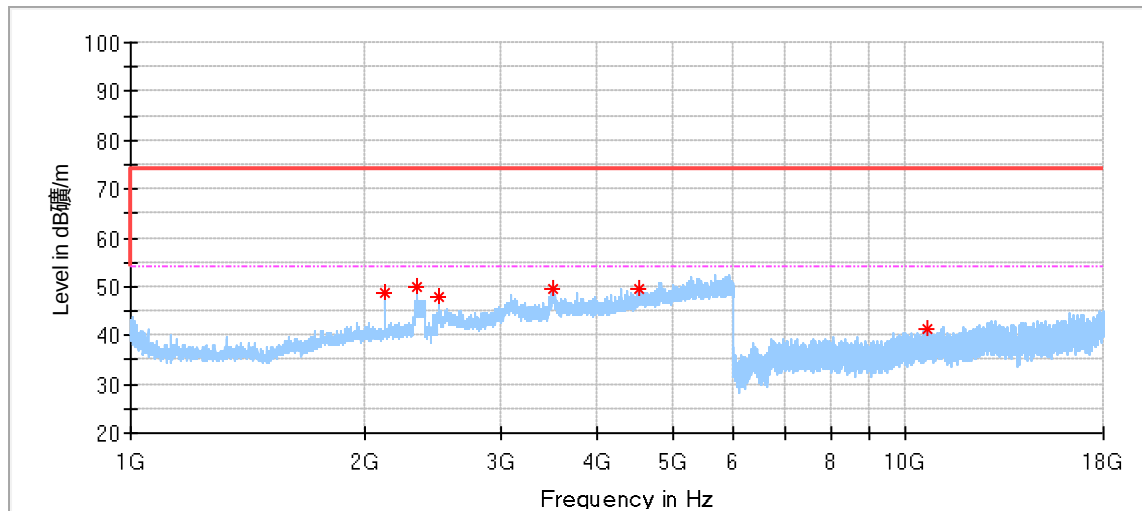


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1053.000000	47.04	74.00	26.96	150.0	H	142.0	-8.36
2325.000000	47.65	74.00	26.35	150.0	H	132.0	-3.04
2492.500000	50.83	74.00	23.17	150.0	H	347.0	-1.84
3496.000000	49.26	74.00	24.74	150.0	H	142.0	4.18
4821.000000	54.75	74.00	19.25	150.0	H	111.0	5.02
7647.000000	39.95	74.00	34.05	150.0	H	198.0	6.99

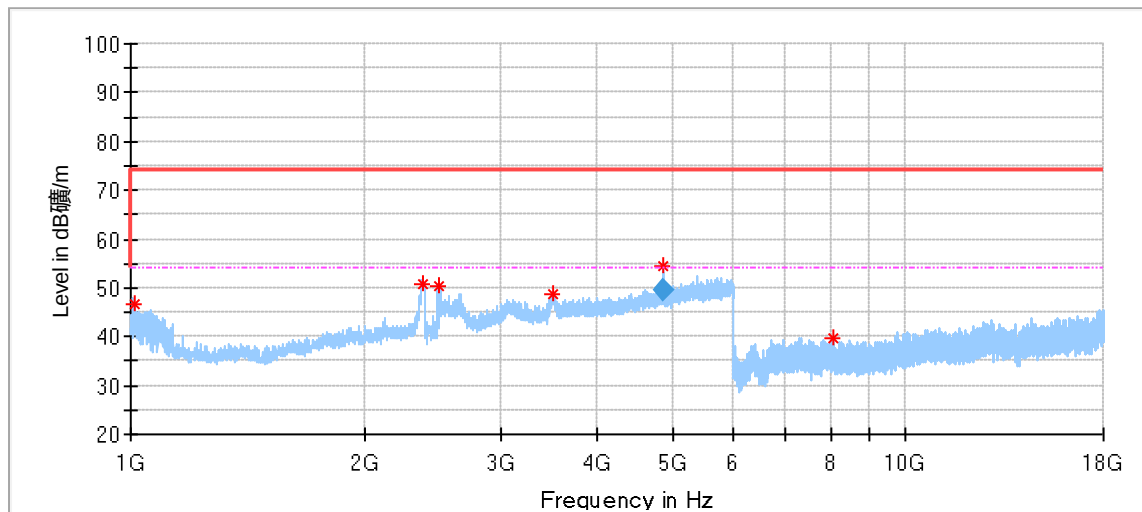
Final Result

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4821.000000	46.33	54.00	7.67	150.0	H	111.0	5.02



Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2128.500000	48.74	74.00	25.26	150.0	V	159.0	-3.63
2343.500000	49.91	74.00	24.09	150.0	V	34.0	-2.88
2496.500000	47.78	74.00	26.22	150.0	V	231.0	-1.85
3514.500000	49.60	74.00	24.40	150.0	V	138.0	3.75
4540.500000	49.60	74.00	24.40	150.0	V	231.0	4.22
10652.000000	41.30	74.00	32.70	150.0	V	13.0	10.30

11g_2437MHz_ANT_C:

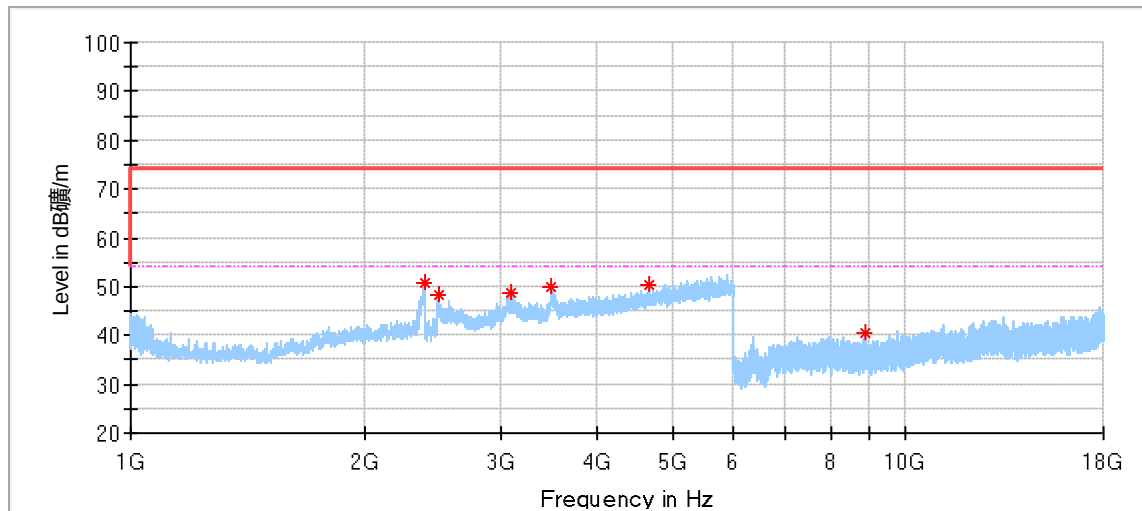


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1012.000000	46.77	74.00	27.23	150.0	H	224.0	-8.00
2378.000000	50.57	74.00	23.43	150.0	H	337.0	-2.55
2500.000000	50.48	74.00	23.52	150.0	H	356.0	-1.85
3498.000000	48.85	74.00	25.15	150.0	H	255.0	4.33
4876.000000	54.53	74.00	19.47	150.0	H	121.0	5.09
8076.500000	39.59	74.00	34.41	150.0	H	324.0	7.50

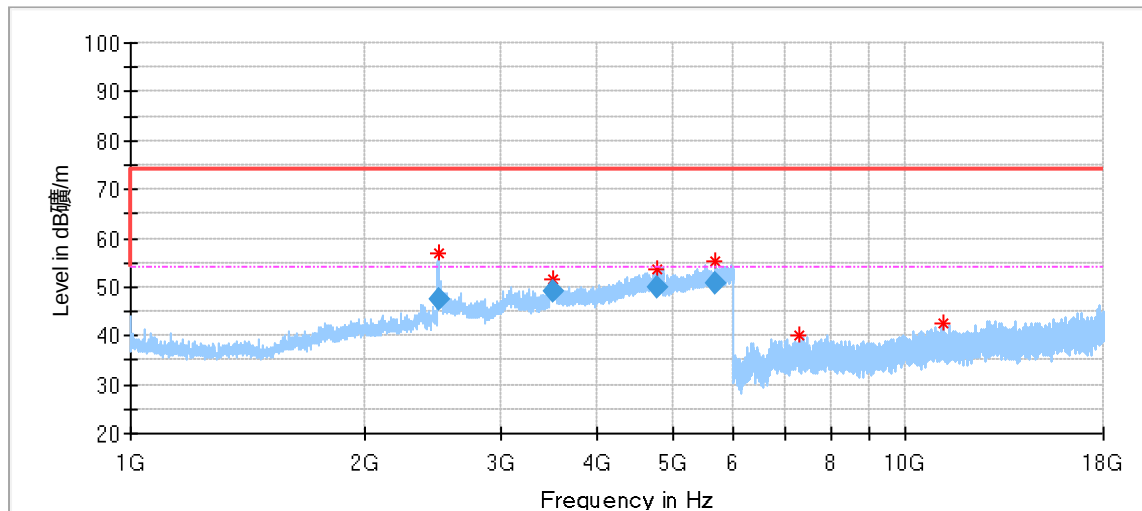
Final Result

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4876.000000	49.67	54.00	4.33	150.0	H	121.0	5.09



Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2395.500000	50.70	74.00	23.30	150.0	V	27.0	-2.40
2495.000000	48.38	74.00	25.62	150.0	V	234.0	-1.84
3101.000000	48.54	74.00	25.46	150.0	V	356.0	1.63
3493.000000	49.97	74.00	24.03	150.0	V	234.0	3.95
4677.000000	50.25	74.00	23.75	150.0	V	101.0	4.45
8884.500000	40.43	74.00	33.57	150.0	V	359.0	7.88

11g_2462MHz_ANT_C:

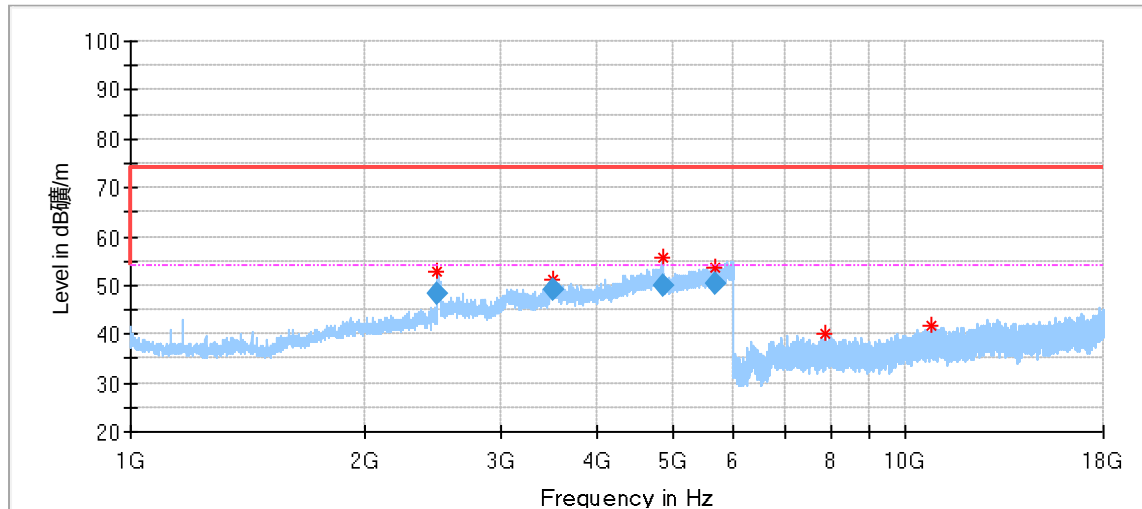


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2493.000000	56.76	74.00	17.24	150.0	H	337.0	-1.84
3511.000000	51.75	74.00	22.25	150.0	H	16.0	3.93
4765.000000	53.52	74.00	20.48	150.0	H	109.0	4.71
5681.000000	55.34	74.00	18.66	150.0	H	296.0	7.29
7278.500000	40.03	74.00	33.97	150.0	H	113.0	6.56
11172.000000	42.52	74.00	31.48	150.0	H	155.0	11.03

Final Result

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2493.000000	47.67	54.00	6.33	150.0	H	337.0	-1.84
3511.000000	49.14	54.00	4.86	150.0	H	16.0	3.93
4765.000000	49.97	54.00	4.03	150.0	H	109.0	4.71
5681.000000	50.58	54.00	3.42	150.0	H	296.0	7.29



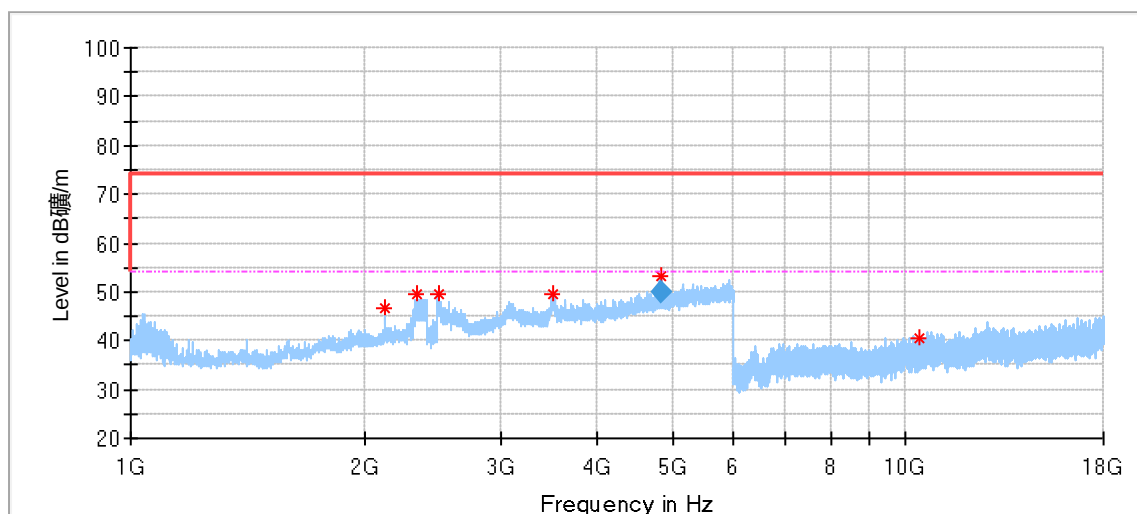
Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2491.500000	52.79	74.00	21.21	150.0	V	0.0	-1.83
3499.500000	51.13	74.00	22.87	150.0	V	13.0	4.44
4850.500000	55.49	74.00	18.51	150.0	V	4.0	5.10
5694.000000	53.54	74.00	20.46	150.0	V	105.0	7.32
7898.000000	40.15	74.00	33.85	150.0	V	96.0	7.23
10820.500000	41.90	74.00	32.10	150.0	V	76.0	10.66

Final_Result

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2491.500000	48.20	54.00	5.80	150.0	V	0.0	-1.83
3499.500000	49.26	54.00	4.74	150.0	V	13.0	4.44
4850.500000	50.06	54.00	3.94	150.0	V	4.0	5.10
5694.000000	50.29	54.00	3.71	150.0	V	105.0	7.32

11n20_2412MHz_ANT_C:

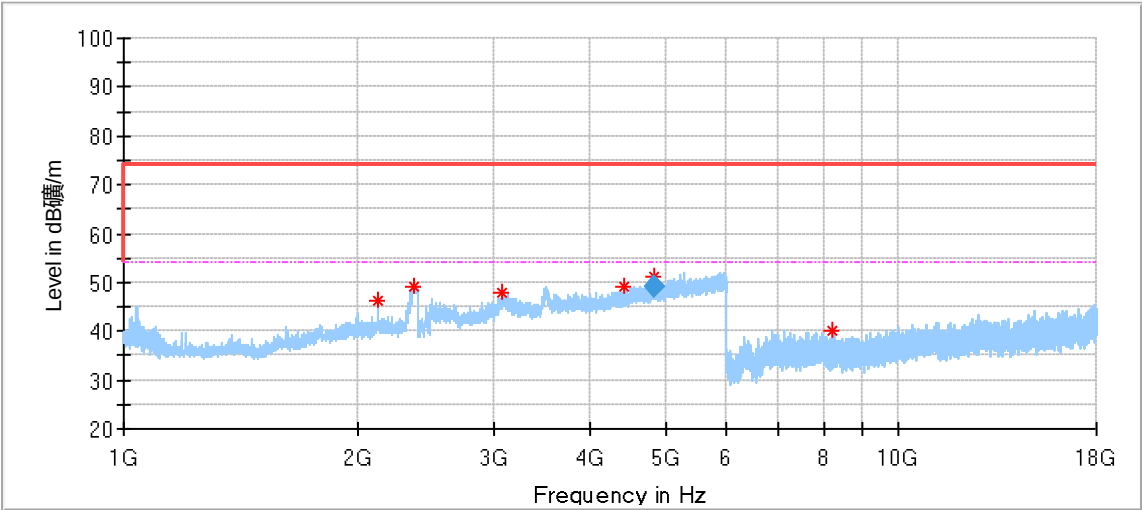


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2131.000000	46.57	74.00	27.43	150.0	H	150.0	-3.59
2340.500000	49.52	74.00	24.48	150.0	H	337.0	-2.90
2493.500000	49.70	74.00	24.30	150.0	H	109.0	-1.84
3509.000000	49.53	74.00	24.47	150.0	H	150.0	4.03
4830.000000	53.31	74.00	20.69	150.0	H	109.0	5.04
10412.500000	40.41	74.00	33.59	150.0	H	73.0	10.14

Final Result

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4830.000000	50.10	54.00	3.90	150.0	H	109.0	5.04



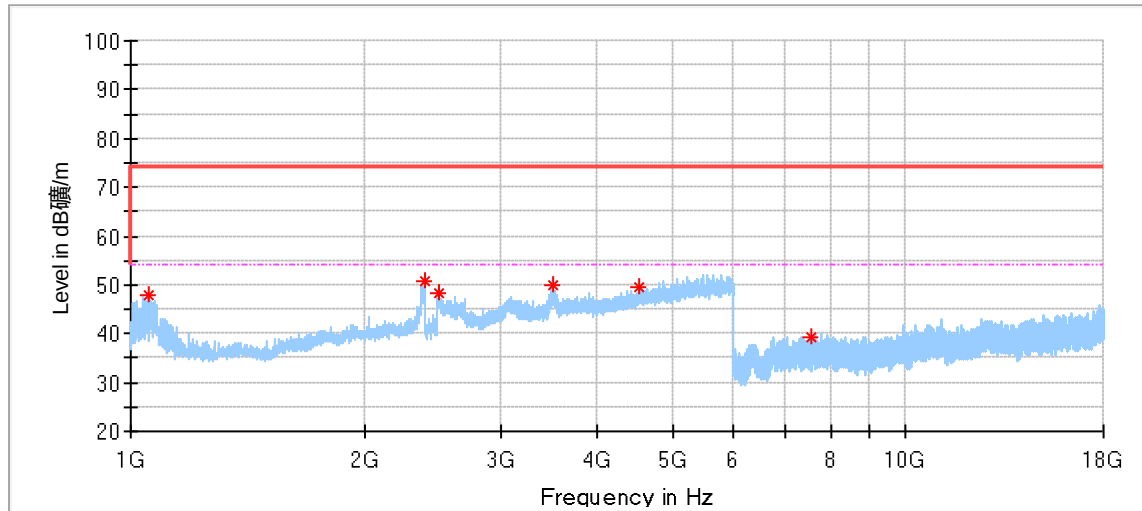
Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2131.500000	46.20	74.00	27.80	150.0	V	326.0	-3.59
2368.000000	49.26	74.00	24.74	150.0	V	4.0	-2.65
3082.000000	47.72	74.00	26.28	150.0	V	155.0	1.54
4414.500000	49.11	74.00	24.89	150.0	V	269.0	3.53
4825.500000	51.03	74.00	22.97	150.0	V	269.0	5.03
8233.000000	40.06	74.00	33.94	150.0	V	73.0	7.44

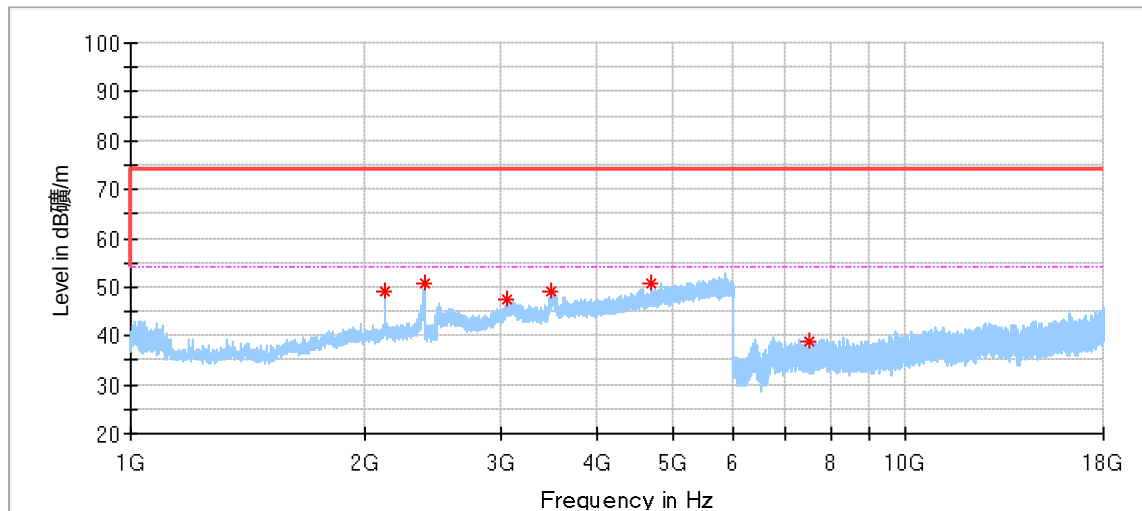
Final_Result

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4825.500000	48.99	54.00	5.11	150.0	V	269.0	5.03

11n20_2437MHz_ANT_C:

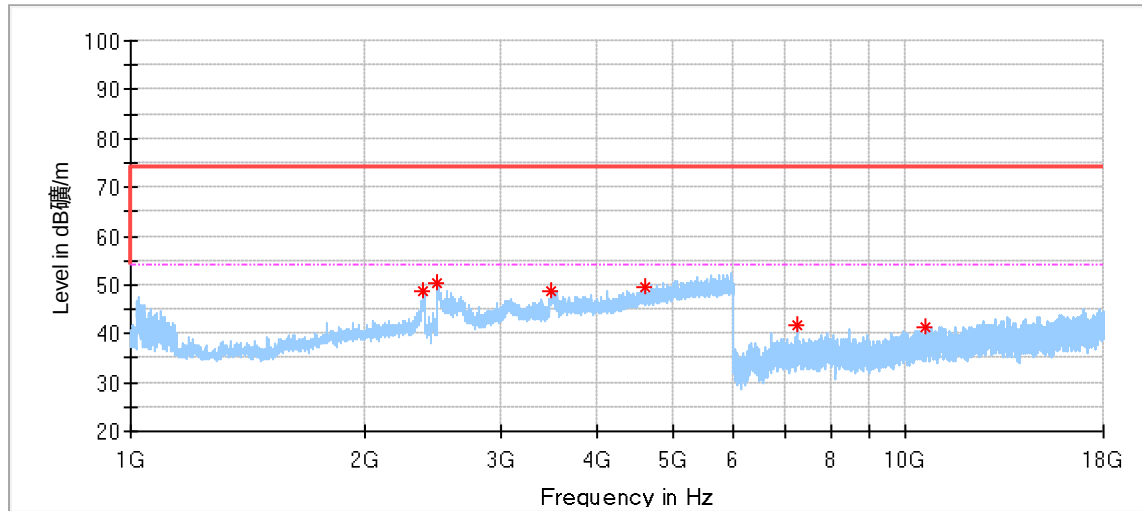


Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1052.000000	47.72	74.00	26.28	150.0	H	142.0	-8.34
2393.500000	50.68	74.00	23.32	150.0	H	275.0	-2.42
2497.000000	48.40	74.00	25.60	150.0	H	132.0	-1.85
3502.000000	49.93	74.00	24.07	150.0	H	0.0	4.39
4539.000000	49.69	74.00	24.31	150.0	H	111.0	4.20
7569.000000	39.25	74.00	34.75	150.0	H	201.0	6.88

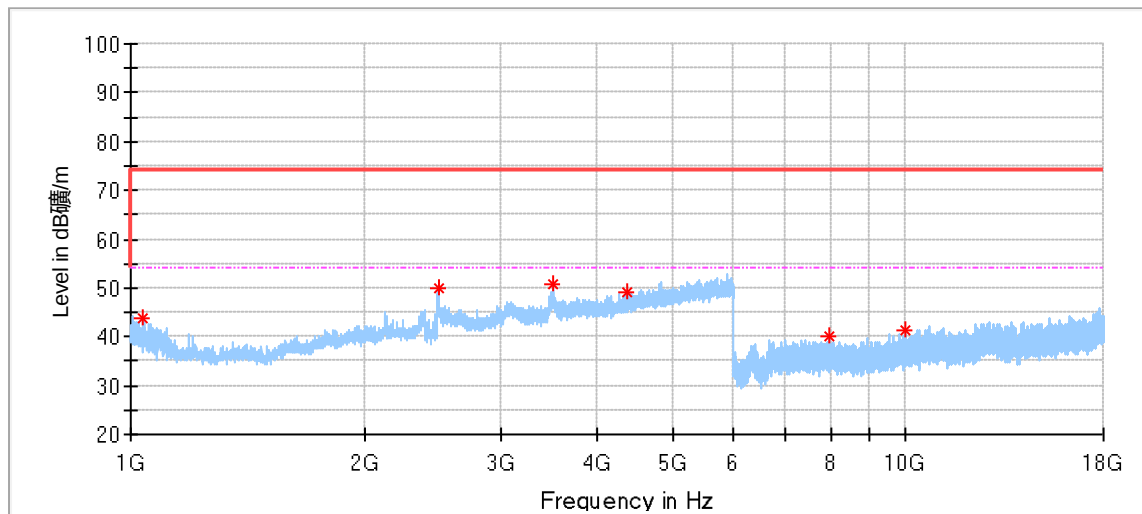


Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2127.500000	49.09	74.00	24.91	150.0	V	337.0	-3.65
2393.000000	50.72	74.00	23.28	150.0	V	27.0	-2.42
3050.500000	47.46	74.00	26.54	150.0	V	16.0	1.65
3484.000000	49.00	74.00	25.00	150.0	V	27.0	3.26
4700.500000	50.74	74.00	23.26	150.0	V	27.0	4.52
7530.500000	38.92	74.00	35.08	150.0	V	264.0	6.86

11n20_2462MHz_ANT_C:

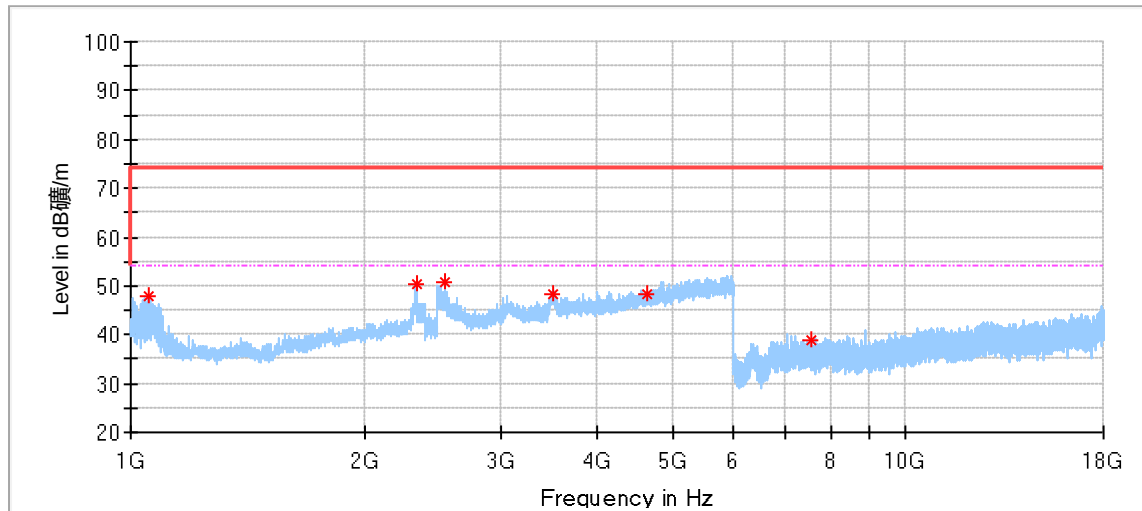


Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2386.500000	48.81	74.00	25.19	150.0	H	347.0	-2.48
2491.500000	50.26	74.00	23.74	150.0	H	347.0	-1.83
3496.500000	48.54	74.00	25.46	150.0	H	128.0	4.22
4616.000000	49.65	74.00	24.35	150.0	H	150.0	4.40
7248.000000	41.54	74.00	32.46	150.0	H	136.0	6.45
10585.000000	41.16	74.00	32.84	150.0	H	305.0	10.14

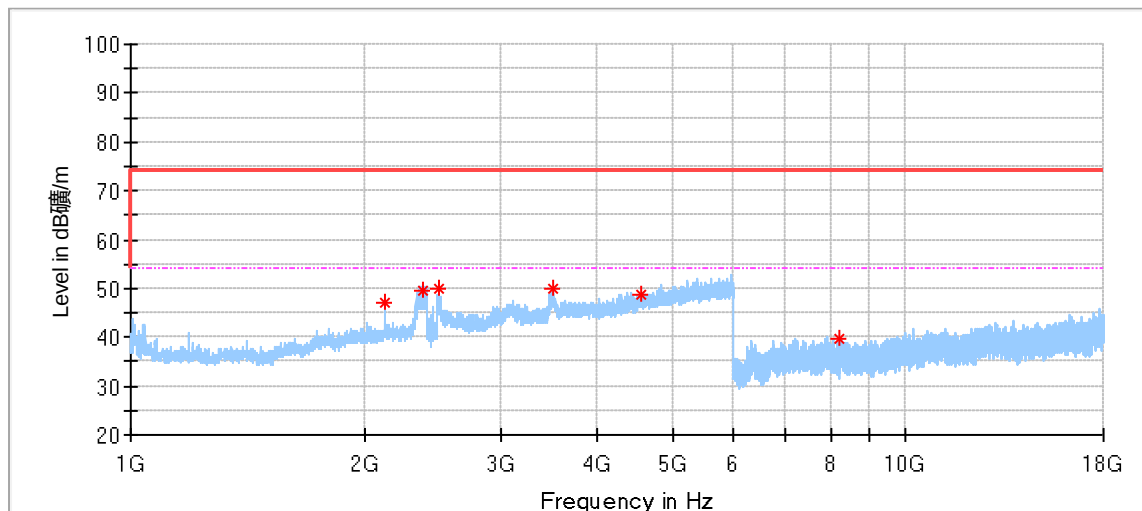


Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1038.500000	43.78	74.00	30.22	150.0	V	326.0	-8.21
2492.000000	49.83	74.00	24.17	150.0	V	234.0	-1.84
3505.500000	50.96	74.00	23.04	150.0	V	16.0	4.21
4376.500000	49.04	74.00	24.96	150.0	V	0.0	3.37
7967.500000	39.98	74.00	34.02	150.0	V	345.0	7.36
10006.500000	41.35	74.00	32.65	150.0	V	324.0	9.54

11n40_2422MHz_ANT_C:

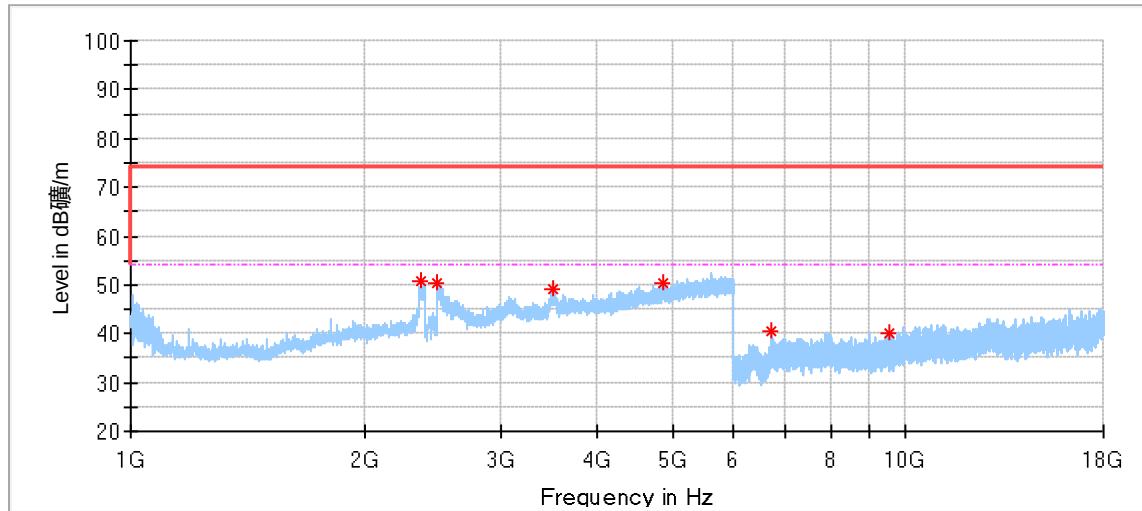


Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1052.000000	47.83	74.00	26.18	150.0	H	142.0	-8.34
2335.500000	50.39	74.00	23.61	150.0	H	347.0	-2.94
2542.500000	50.96	74.00	23.04	150.0	H	121.0	-1.44
3500.500000	48.11	74.00	25.89	150.0	H	0.0	4.46
4639.500000	48.31	74.00	25.69	150.0	H	265.0	4.43
7545.500000	38.71	74.00	35.29	150.0	H	73.0	6.89

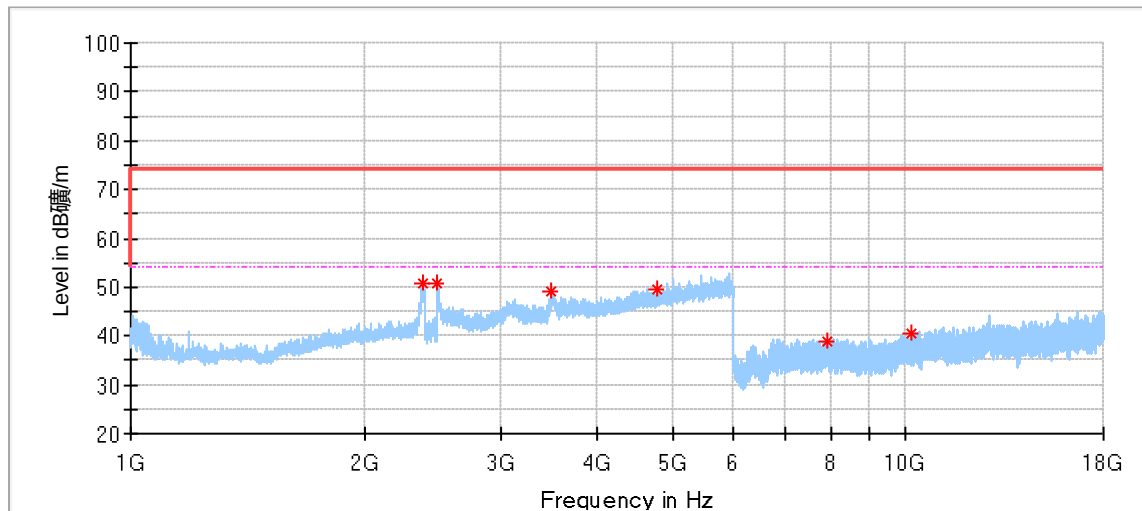


Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2132.500000	47.11	74.00	26.89	150.0	V	162.0	-3.59
2378.500000	49.74	74.00	24.26	150.0	V	50.0	-2.55
2495.500000	50.02	74.00	23.98	150.0	V	244.0	-1.85
3503.500000	49.81	74.00	24.19	150.0	V	0.0	4.31
4550.000000	48.89	74.00	25.11	150.0	V	19.0	4.29
8220.000000	39.76	74.00	34.24	150.0	V	115.0	7.41

11n40_2437MHz_ANT_C:

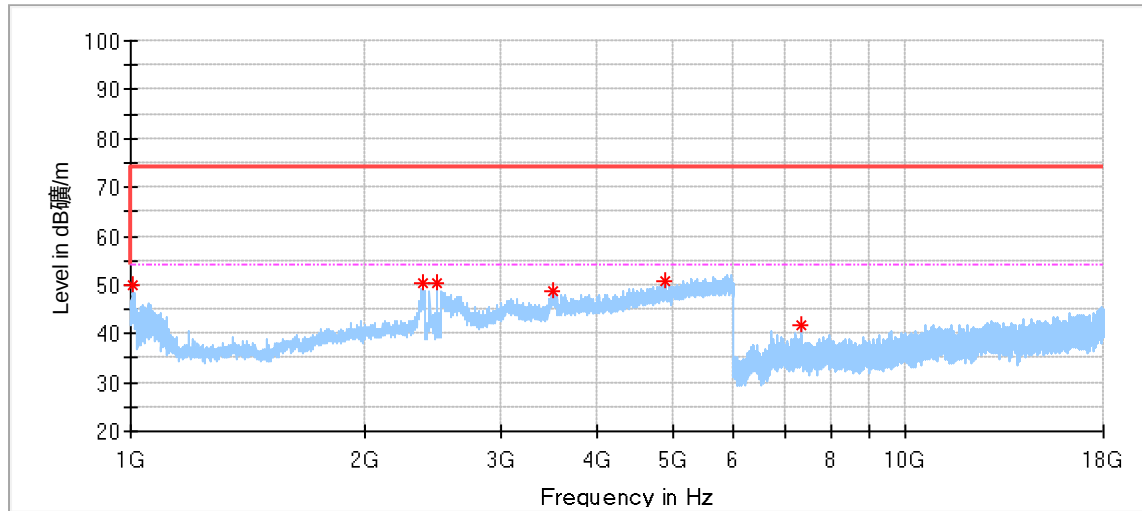


Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2369.000000	50.60	74.00	23.40	150.0	H	333.0	-2.64
2490.000000	50.47	74.00	23.53	150.0	H	347.0	-1.83
3517.500000	49.18	74.00	24.82	150.0	H	169.0	3.60
4860.500000	50.33	74.00	23.67	150.0	H	108.0	5.10
6702.000000	40.35	74.00	33.65	150.0	H	117.0	6.02
9531.000000	40.17	74.00	33.83	150.0	H	326.0	8.69

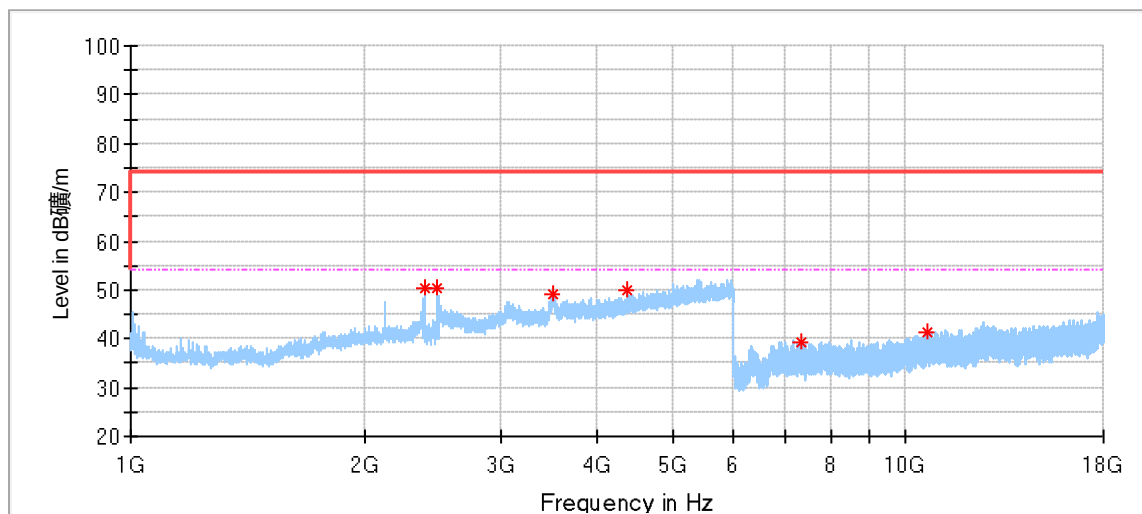


Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2377.000000	50.74	74.00	23.26	150.0	V	0.0	-2.56
2491.500000	50.79	74.00	23.21	150.0	V	232.0	-1.83
3496.000000	49.15	74.00	24.85	150.0	V	47.0	4.18
4783.500000	49.37	74.00	24.63	150.0	V	140.0	4.82
7945.000000	38.79	74.00	35.21	150.0	V	347.0	7.29
10146.000000	40.71	74.00	33.29	150.0	V	159.0	9.60

11n40_2452MHz_ANT_C:



Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1004.000000	50.13	74.00	23.87	150.0	H	232.0	-7.91
2381.500000	50.29	74.00	23.71	150.0	H	347.0	-2.52
2488.000000	50.32	74.00	23.68	150.0	H	347.0	-1.82
3499.000000	48.90	74.00	25.10	150.0	H	99.0	4.41
4893.000000	50.68	74.00	23.32	150.0	H	109.0	5.07
7346.000000	41.57	74.00	32.43	150.0	H	210.0	6.66

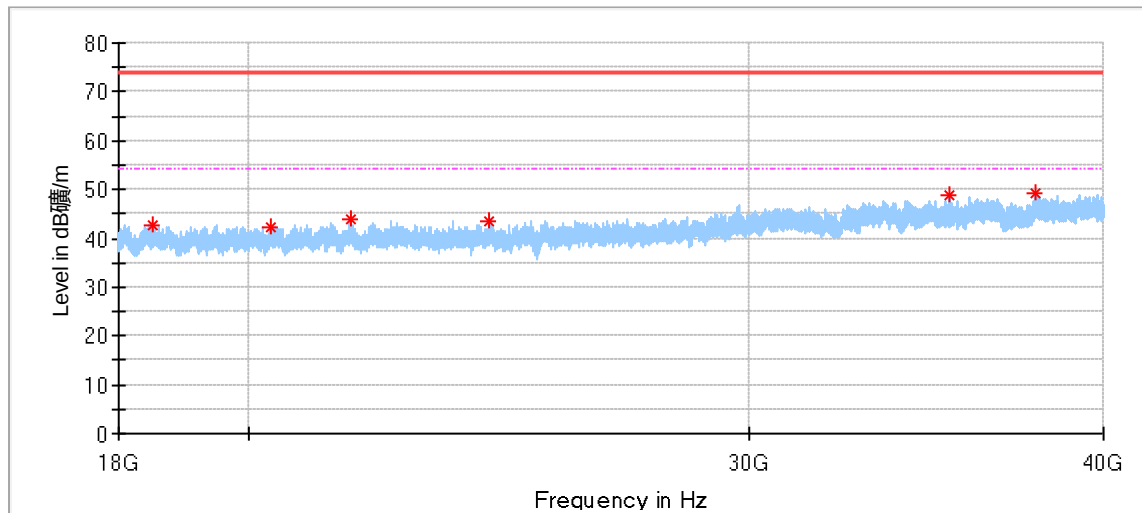


Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2390.500000	50.31	74.00	23.69	150.0	V	29.0	-2.44
2488.000000	50.33	74.00	23.67	150.0	V	19.0	-1.82
3503.500000	49.17	74.00	24.83	150.0	V	316.0	4.31
4362.500000	50.04	74.00	23.96	150.0	V	173.0	3.30
7328.500000	39.40	74.00	34.60	150.0	V	115.0	6.68
10672.500000	41.20	74.00	32.80	150.0	V	4.0	10.35

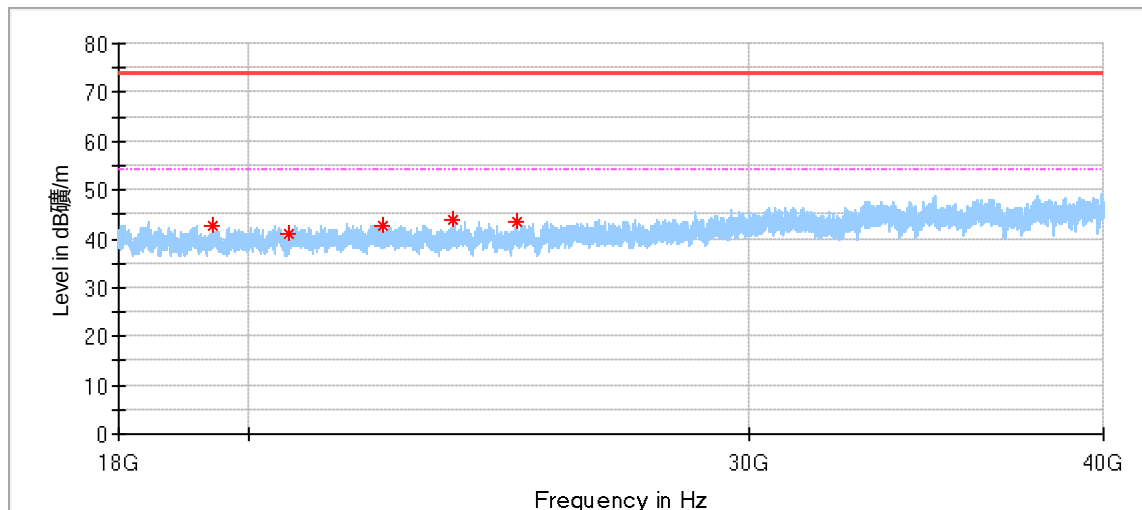
For MT7663BSN Module:

18GHz -40GHz:

11b_2412MHz:

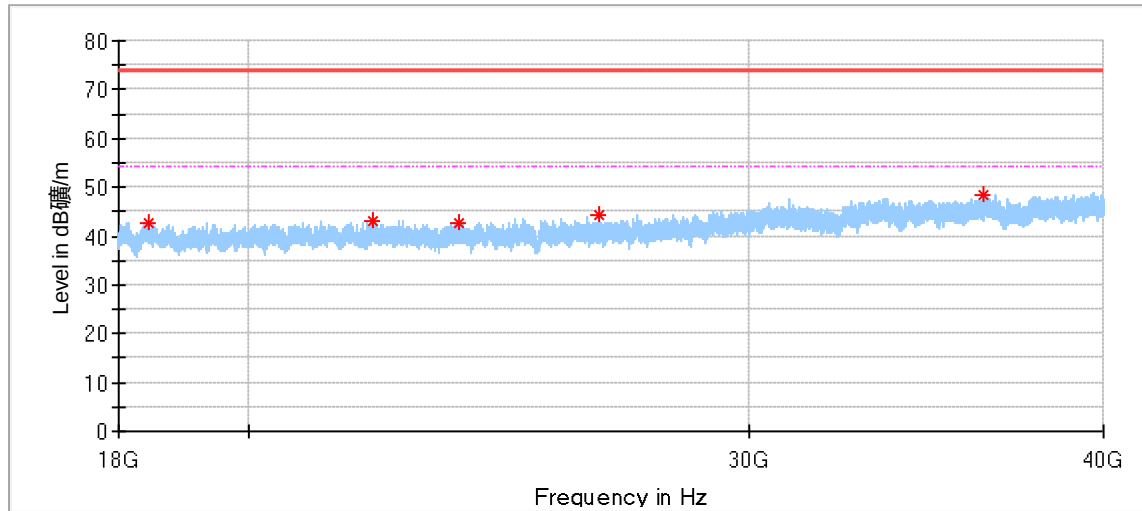


Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
18517.687500	42.53	74.00	31.47	150.0	H	5.0	-1.71
20366.375000	42.45	74.00	31.55	150.0	H	254.0	-0.73
21735.187500	43.80	74.00	30.20	150.0	H	338.0	0.48
24313.312500	43.37	74.00	30.63	150.0	H	331.0	1.12
35296.125000	48.74	74.00	25.26	150.0	H	154.0	5.45
37856.375000	49.38	74.00	24.62	150.0	H	209.0	6.72

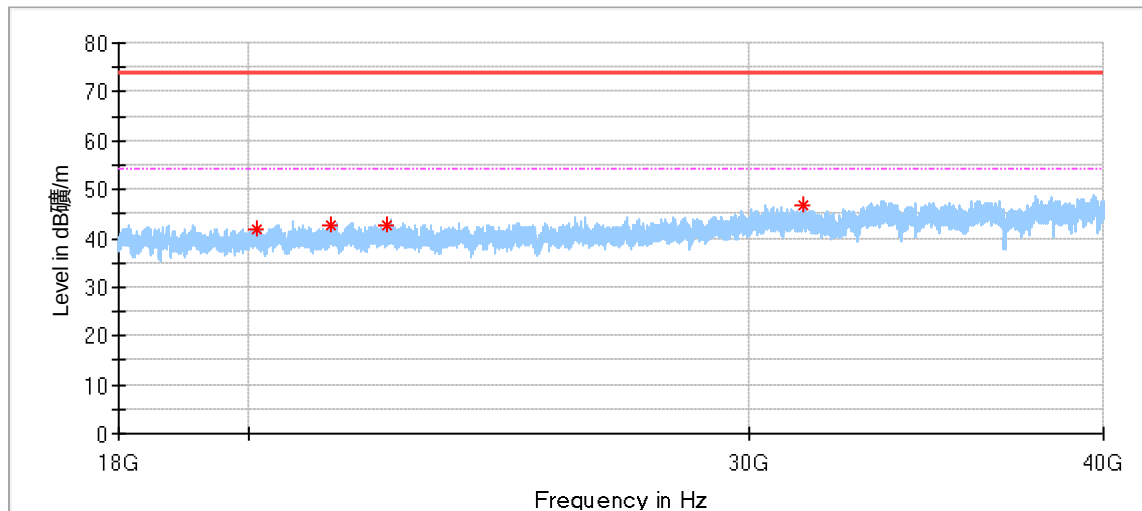


Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
19441.687500	42.54	74.00	31.46	150.0	V	101.0	-1.49
20670.250000	40.98	74.00	33.02	150.0	V	338.0	-0.42
22298.937500	42.82	74.00	31.18	150.0	V	63.0	0.94
23610.000000	43.89	74.00	30.11	150.0	V	71.0	0.79
24850.937500	43.48	74.00	30.52	150.0	V	0.0	1.47

11b_2437MHz

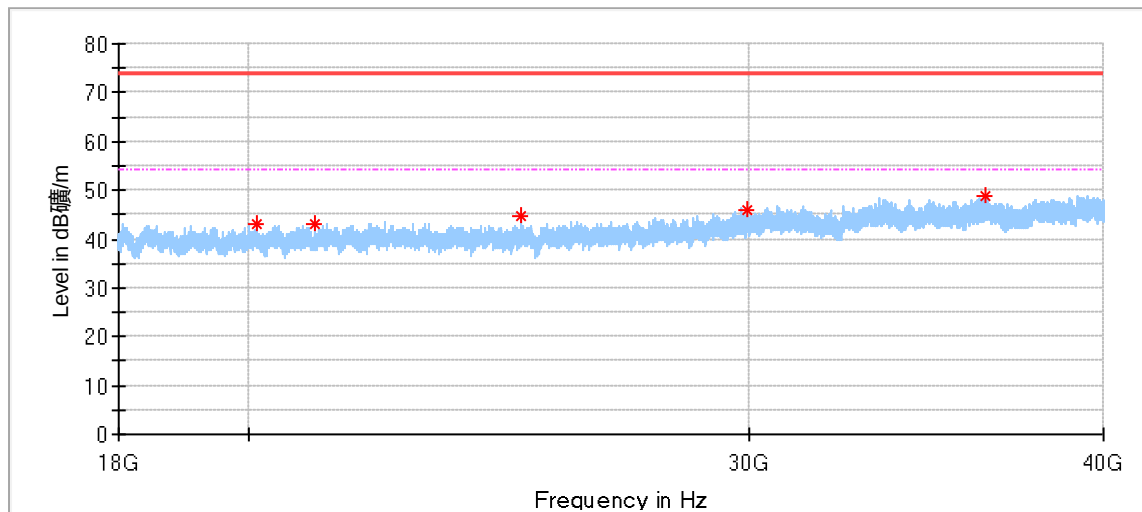


Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
18454.437500	42.73	74.00	31.27	150.0	H	314.0	-1.84
22137.375000	43.20	74.00	30.80	150.0	H	306.0	0.72
23717.250000	42.86	74.00	31.14	150.0	H	338.0	0.89
26557.312500	44.11	74.00	29.89	150.0	H	106.0	2.08
36310.875000	48.39	74.00	25.61	150.0	H	176.0	6.10

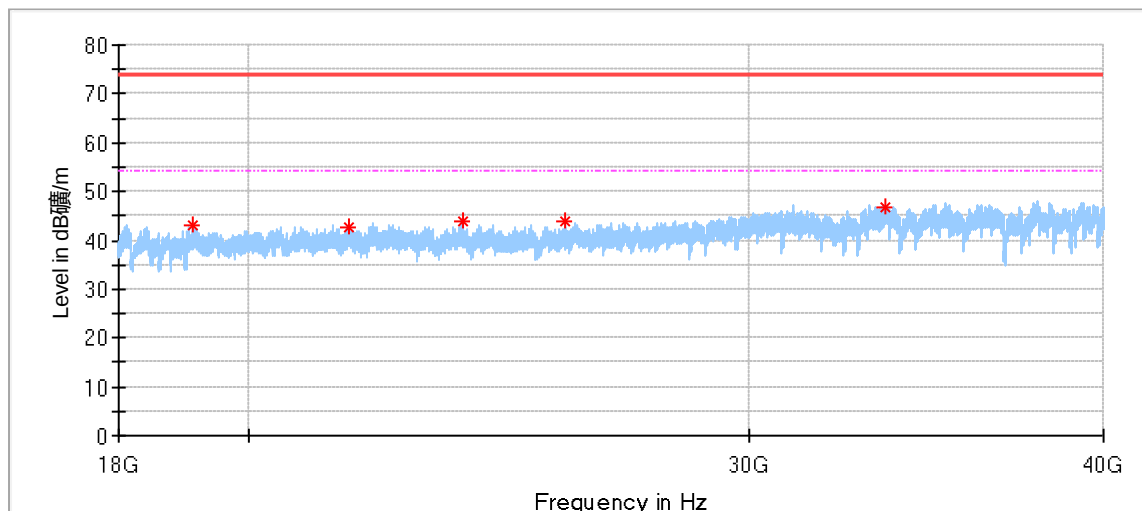


Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
20143.625000	41.88	74.00	32.12	150.0	V	154.0	-1.25
21384.562500	42.52	74.00	31.48	150.0	V	253.0	0.27
22363.562500	42.65	74.00	31.35	150.0	V	338.0	1.02
31336.812500	46.60	74.00	27.40	150.0	V	238.0	2.68

11b_2462MHz



Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
20122.312500	43.27	74.00	30.73	150.0	H	61.0	-1.31
21118.500000	43.21	74.00	30.79	150.0	H	268.0	0.33
24951.312500	44.92	74.00	29.08	150.0	H	0.0	1.68
29939.812500	45.92	74.00	28.08	150.0	H	0.0	2.60
36322.562500	48.97	74.00	25.03	150.0	H	177.0	6.12



Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
19107.562500	43.24	74.00	30.76	150.0	V	315.0	-1.78
21693.250000	42.74	74.00	31.26	150.0	V	290.0	0.45
23795.625000	43.86	74.00	30.14	150.0	V	206.0	0.96
25857.437500	43.85	74.00	30.15	150.0	V	206.0	2.04
33530.625000	46.96	74.00	27.04	150.0	V	283.0	4.54

Remark:

- (1) Only the worst case data of mode 802.11b_ANT_B (for MT7663BSN module) and 802.11b_ANT_C (for ESP32-S3-WROOM-1U module) within frequency range 30MHz-1GHz was put in this report. And the worst case data of mode 802.11b_ANT_B (for MT7663BSN module) within frequency range 18GHz-40GHz was put in this report.
- (2) Corrected Amplitude = Read level + Corrector factor
Above 1GHz: Corrector factor = Antenna Factor + Cable Loss- Amplifier Gain
Below 1GHz: Corrector factor = Antenna Factor + Cable Loss

10 Test Equipment List

Conducted Emission 2# Test

DESCRIPTION	MANUFACTURER	MODEL NO.	EQUIPMENT ID	SERIAL NO.	CAL INTERVAL (YEAR)	CAL. DUE DATE
EMI Test Receiver	Rohde & Schwarz	ESR 3	68-4-74-19-002	102590	1	2024-5-19
LISN	Rohde & Schwarz	ENV216	68-4-87-19-001	102472	1	2024-5-20
Attenuator	Shanghai Huaxiang	TS2-26-3	68-4-81-16-003	080928189	1	2024-5-19
Test software	Rohde & Schwarz	EMC32	68-4-90-19-005-A01	Version10.35.02	N/A	N/A
Shielding Room	TDK	CSR #2	68-4-90-19-005	----	3	2025-10-15

Radiated Emission Test 1# Test

DESCRIPTION	MANUFACTURER	MODEL NO.	EQUIPMENT ID	SERIAL NO.	CAL INTERVAL (YEAR)	CAL. DUE DATE
EMI Test Receiver	Rohde & Schwarz	ESR 7	68-4-74-19-001	102176	1	2024-5-20
Loop Antenna	Rohde & Schwarz	HFH2-Z2	68-4-80-14-006	100398	1	2024-8-7
3m Semi-anechoic chamber	TDK	SAC-3 #1	68-4-90-14-001	----	3	2024-5-28
Test software	Rohde & Schwarz	EMC32	68-4-90-14-001-A10	Version10.35.02	N/A	N/A

Radiated Emission 2# Test

DESCRIPTION	MANUFACTURER	MODEL NO.	EQUIPMENT ID	SERIAL NO.	CAL INTERVAL (YEAR)	CAL. DUE DATE
EMI Test Receiver	Rohde & Schwarz	ESR 26	68-4-74-14-002	101269	1	2024-5-20
Trilog Super Broadband Test Antenna	Schwarzbeck	VULB 9162	68-4-80-19-003	284	1	2024-3-5
Wave Guide Antenna	ETS	3117	68-4-80-19-001	00218954	1	2024-4-26
Pre-amplifier	Rohde & Schwarz	SCU 18F	68-4-29-19-001	100745	1	2024-5-19
Sideband Horn Antenna	Q-PAR	QWH-SL-18-40-K-SG	68-4-80-14-008	12827	1	2024-7-11
Pre-amplifier	Rohde & Schwarz	SCU 40A	68-4-29-14-002	100432	1	2024-8-1
Attenuator	Mini-circuits	UNAT-6+	68-4-81-21-002	15542	1	2024-5-19
3m Semi-anechoic chamber	TDK	SAC-3 #2	68-4-90-19-006	----	2	2024-5-28
Test software	Rohde & Schwarz	EMC32	68-4-90-19-006-A01	Version10.35.02	N/A	N/A

RF conducted test

DESCRIPTION	MANUFACTURER	MODEL NO.	EQUIPMENT ID	SERIAL NO.	CAL INTERVAL (YEAR)	CAL. DUE DATE
Signal Analyzer	Rohde & Schwarz	FSV40	68-4-74-14-004	101030	1	2024-5-19
RF Switch Module	Rohde & Schwarz	OSP120/OSP-B157W	68-4-93-14-003	101226/100929	1	2024-5-20
Power Splitter	Weinschel	1580	68-4-85-14-001	SC319	1	2024-5-20
10dB Attenuator	R&S	DNF	68-4-81-14-004	DNF-001	1	2024-5-19
Test software	TST PASS	System for BT/WIFI	68-4-93-23-001-A03	Version 2.0	N/A	N/A
Shielding Room	TDK	TS8997	68-4-90-19-003	----	3	2025-10-15

11 System Measurement Uncertainty

For a 95% confidence level, the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO 17025 were:

System Measurement Uncertainty	
Test Items	Extended Uncertainty
Uncertainty for Conducted Emission in new shielding room (68-4-90-19-005) 150kHz-30MHz (for test using AMN ENV216)	3.15dB
Uncertainty for Radiated Emission in 3m chamber (68-4-90-14-001) 9kHz-30MHz	4.70dB
Uncertainty for Radiated Emission in new 3m chamber (68-4-90-19-006) 30MHz-1000MHz	Horizontal: 4.63dB; Vertical: 4.78dB;
Uncertainty for Radiated Emission in new 3m chamber (68-4-90-19-006) 1000MHz-18000MHz	Horizontal: 5.38dB; Vertical: 5.38dB;
Uncertainty for Radiated Emission in new 3m chamber (68-4-90-19-006) 18GHz-40GHz	Horizontal: 5.29dB; Vertical: 5.29dB;
Uncertainty for Conducted RF test with TS 8997	RF Power Conducted: 1.31dB Frequency test involved: 0.6×10 ⁻⁸ or 1%

Measurement Uncertainty Decision Rule:

Determination of conformity with the specification limits is based on the decision rule according to IEC Guide 115: 2021, clause 4.4.3 and 4.5.1.

---THE END OF REPORT---