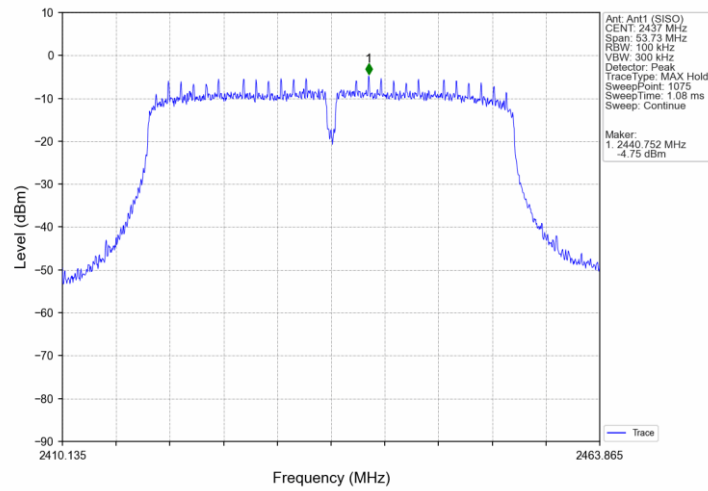
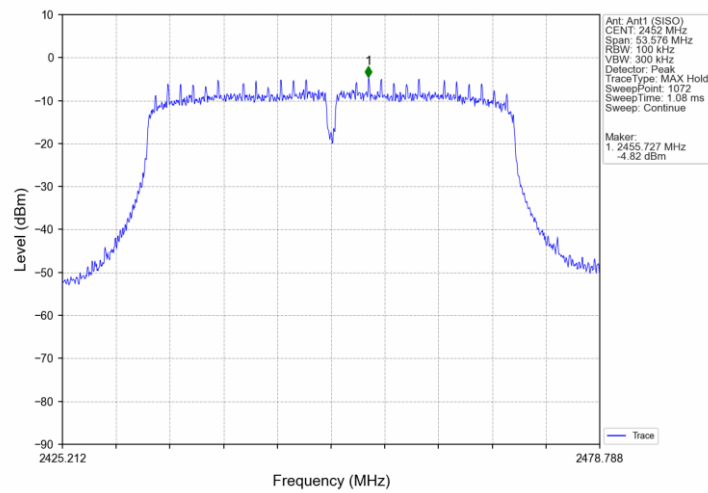


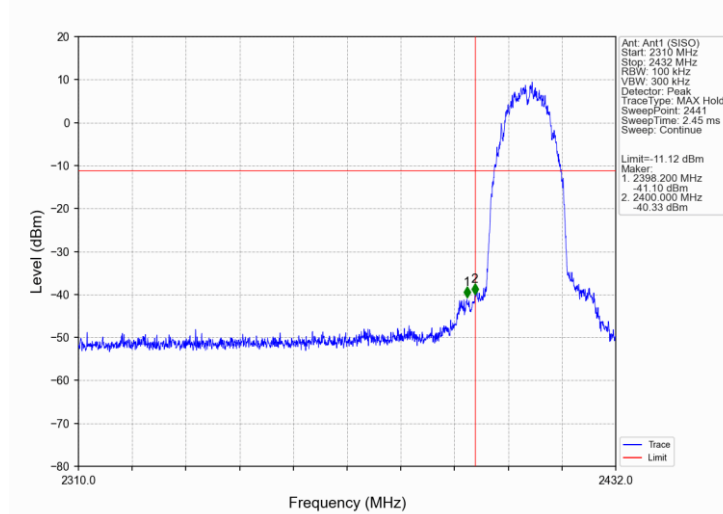
802.11n(HT40) MCH 2437MHz Ant1 (SISO) NTNV



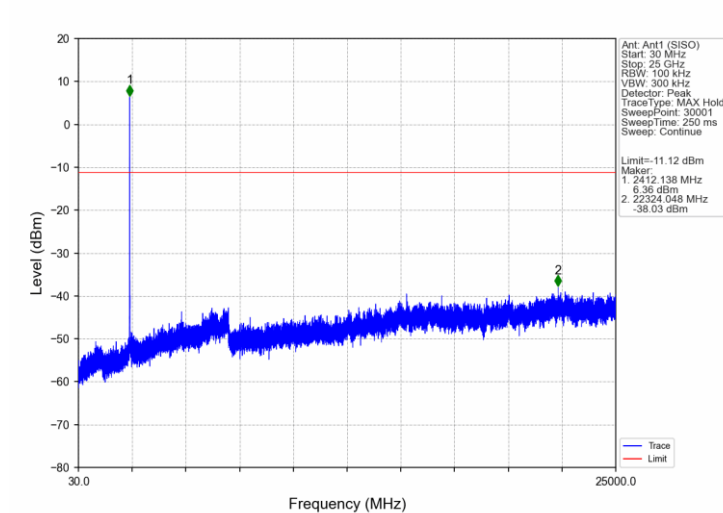
802.11n(HT40) HCH 2452MHz Ant1 (SISO) NTNV



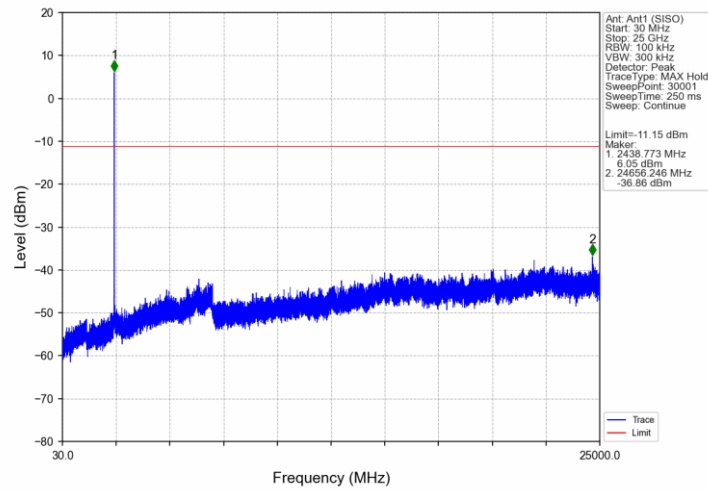
802.11b LCH_2412MHz_Ant1 (SISO) NTV



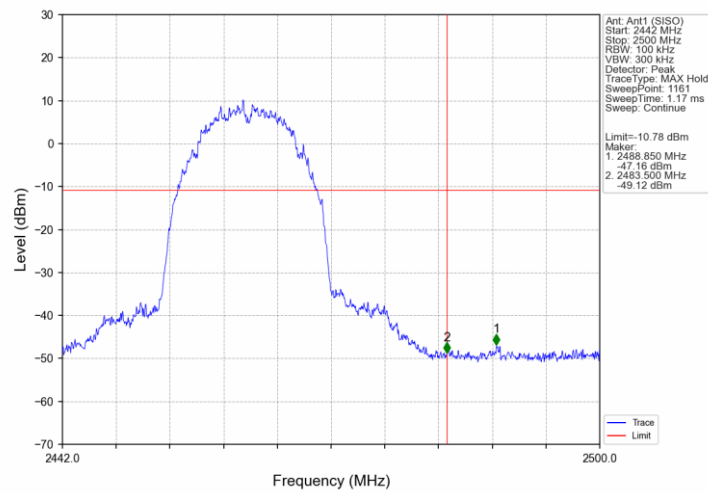
802.11b LCH_2412MHz_Ant1 (SISO) NTV



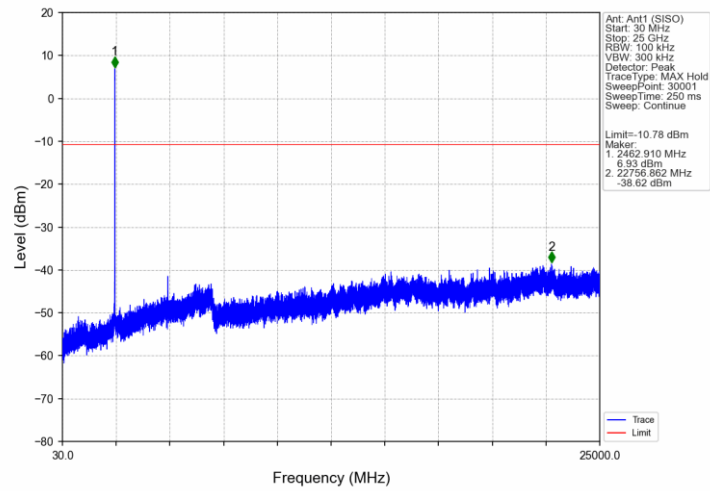
802.11b MCH 2437MHz Ant1 (SISO) NTN



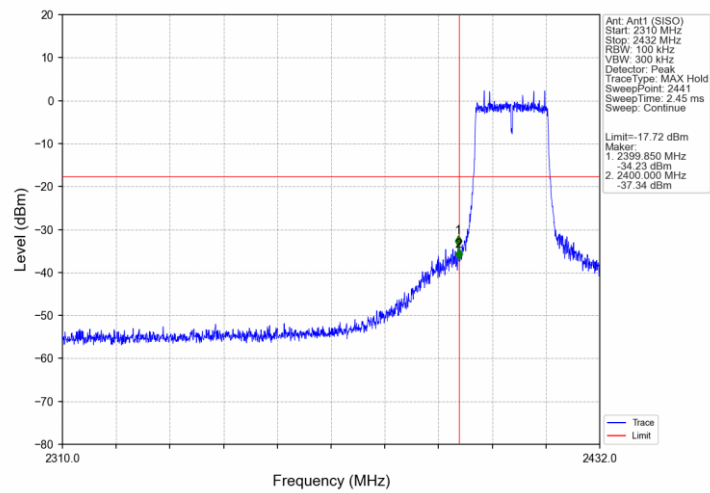
802.11b HCH 2462MHz Ant1 (SISO) NTN



802.11b HCH 2462MHz Ant1 (SISO) NTV

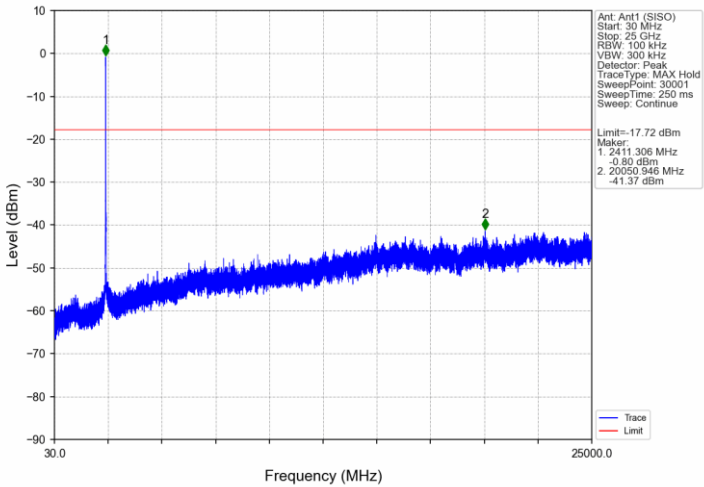


802.11g LCH 2412MHz Ant1 (SISO) NTV

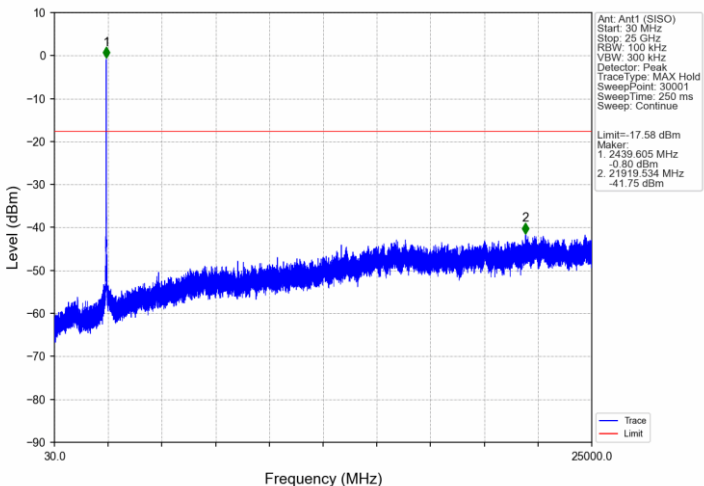




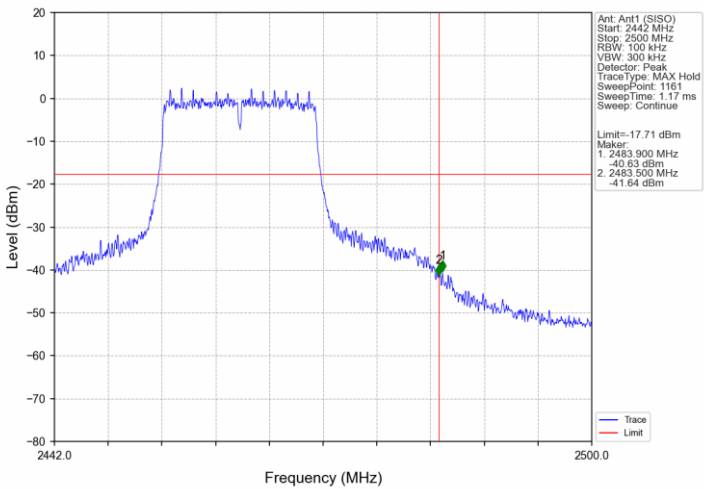
802.11g_LCH_2412MHz_Ant1 (SISO) NTN



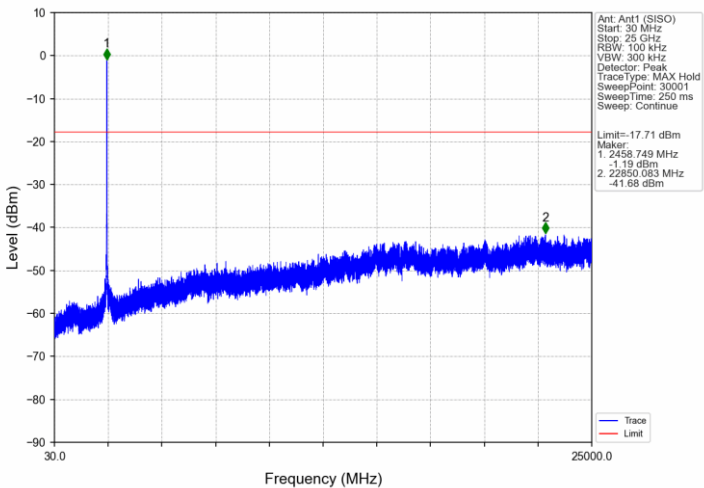
802.11g_MCH_2437MHz_Ant1 (SISO) NTN



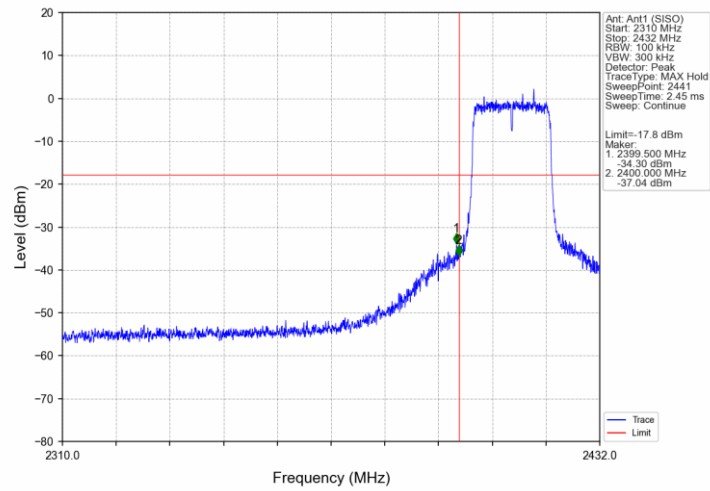
802.11g_HCH_2462MHz_Ant1 (SISO) NTN



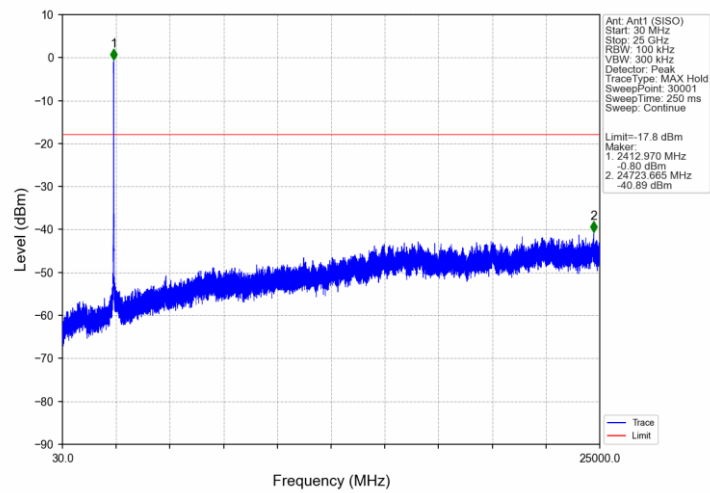
802.11g_HCH_2462MHz_Ant1 (SISO) NTN



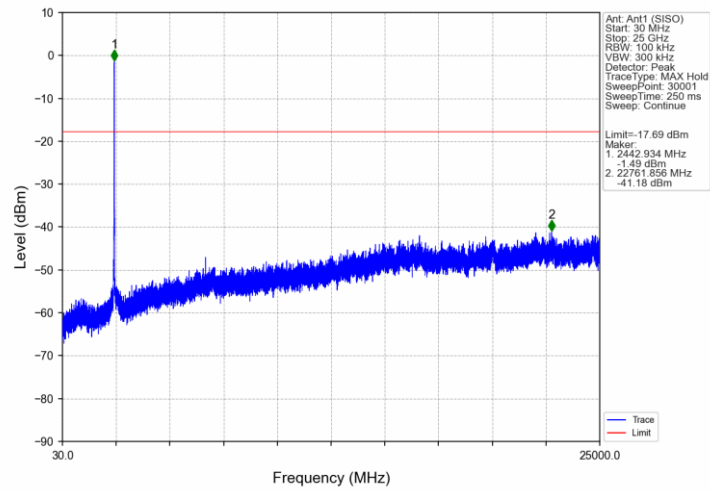
802.11n(HT20) LCH 2412MHz Ant1 (SISO) NTV



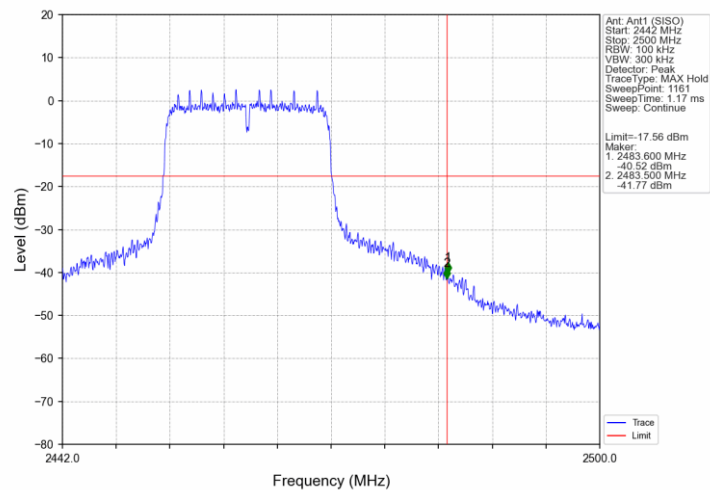
802.11n(HT20) LCH 2412MHz Ant1 (SISO) NTV



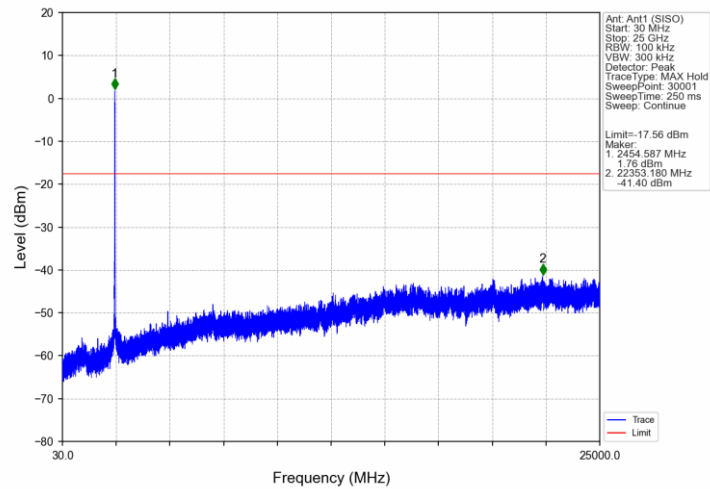
802.11n(HT20) MCH 2437MHz Ant1 (SISO) NTNV



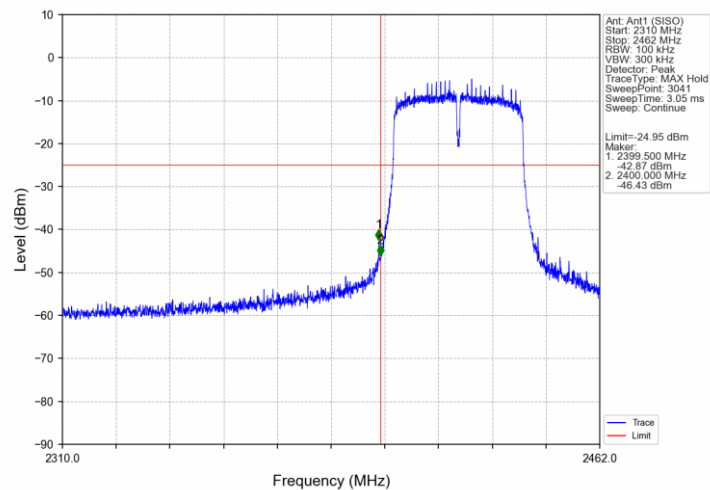
802.11n(HT20) HCH 2462MHz Ant1 (SISO) NTNV



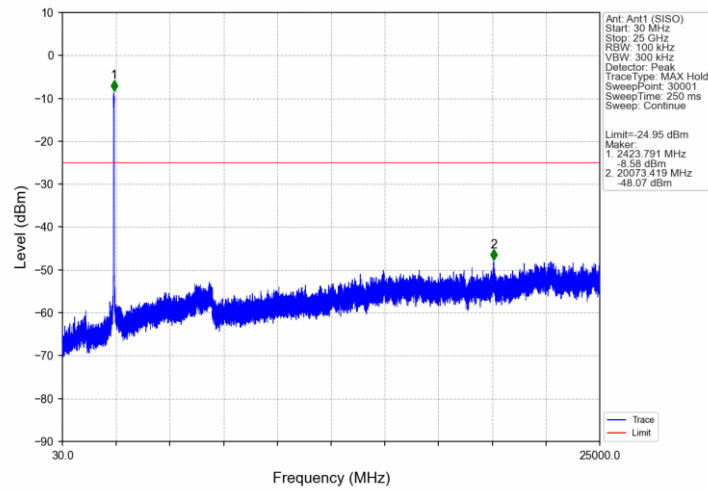
802.11n(HT20) HCH 2462MHz Ant1 (SISO) NTV



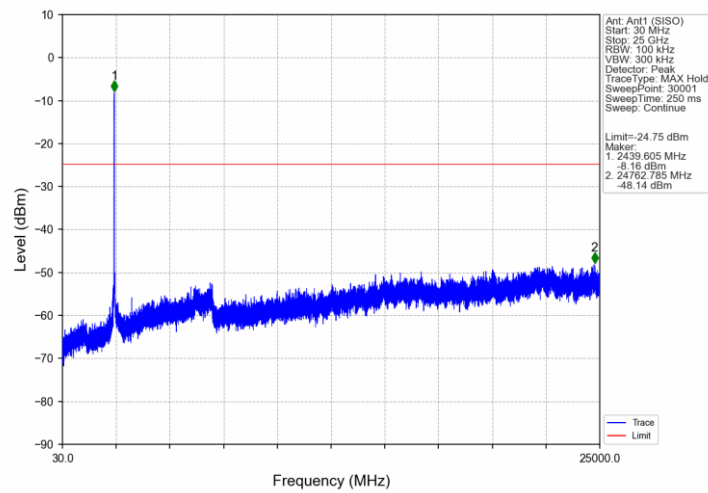
802.11n(HT40) LCH 2422MHz Ant1 (SISO) NTV



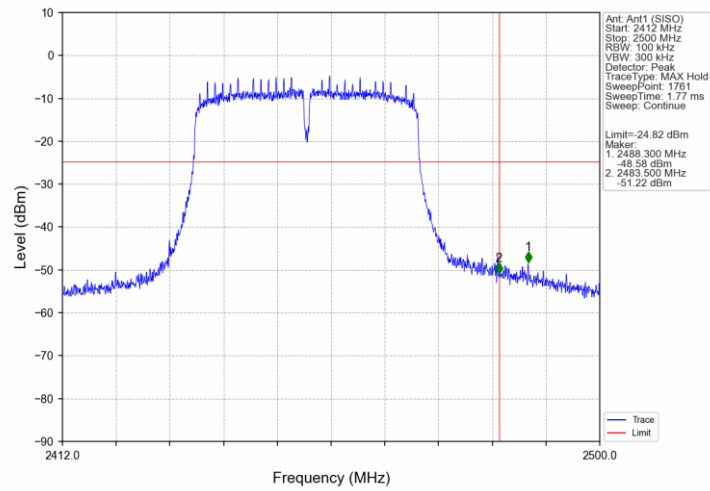
802.11n(HT40) LCH 2422MHz Ant1 (SISO) NTNV



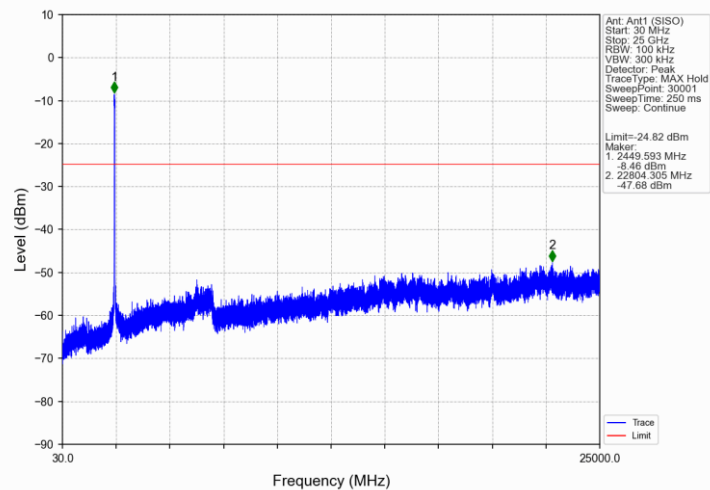
802.11n(HT40) MCH 2437MHz Ant1 (SISO) NTNV



802.11n(HT40) HCH 2452MHz Ant1 (SISO) NTNV



802.11n(HT40) HCH 2452MHz Ant1 (SISO) NTNV



9.6 Band Edge Testing

Test Method

1. The RF output of EUT was connected to the test receiver by RF cable. The path loss was compensated to the results for each measurement.
2. Set to the maximum power setting and enable the EUT transmit continuously. Set the EUT to the lowest frequency channel.
3. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector, Trace: Max hold, Sweep time: Coupled, Span: Wide enough to capture the peak level of the emission operating on the channel closest to the band edge, as well as any modulation products that fall outside of the authorized band of operation. Allow the trace to stabilize.
4. Set the marker on the emission at the band edge, or on the highest modulation product outside of the band, if this level is greater than that at the band edge. Enable the marker-delta function, and then use the marker-to-peak function to move the marker to the peak of the in-band emission.
5. Set the EUT to the highest frequency channel and repeat step 2) to 4)
6. Enable the EUT hopping mode, repeat the test.

Limit

In any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced 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 that the transmitter demonstrates compliance with the peak conducted power limits.

Frequency Range MHz	Limit (dBc)
30-25000	-20

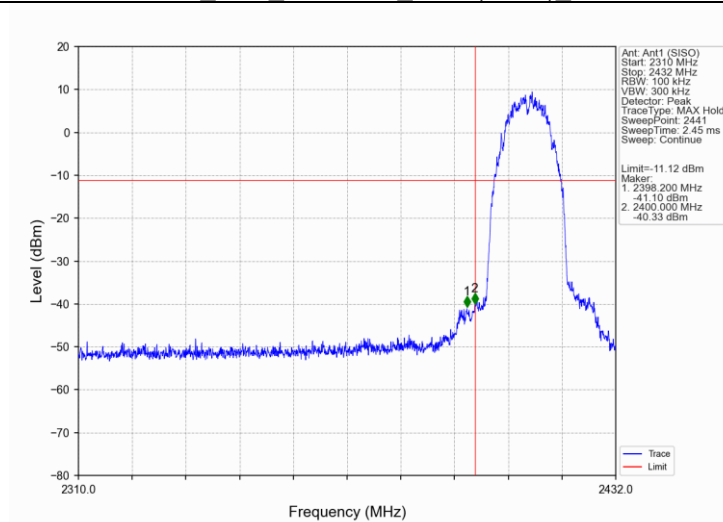
Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	8.88	-11.12	Pass
		2437	1	8.85	-11.15	Pass
		2462	1	9.22	-10.78	Pass
802.11g	SISO	2412	1	2.28	-17.72	Pass
		2437	1	2.42	-17.58	Pass
		2462	1	2.29	-17.71	Pass
802.11n (HT20)	SISO	2412	1	2.20	-17.80	Pass
		2437	1	2.31	-17.69	Pass
		2462	1	2.44	-17.56	Pass
802.11n (HT40)	SISO	2422	1	-4.95	-24.95	Pass
		2437	1	-4.75	-24.75	Pass
		2452	1	-4.82	-24.82	Pass

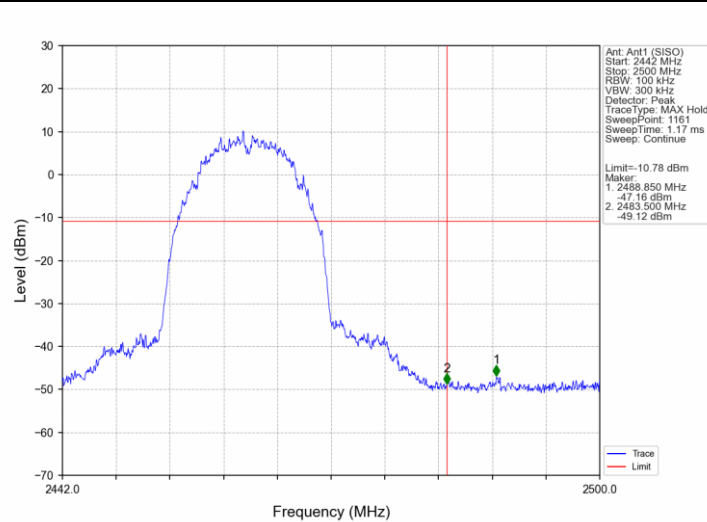
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.

Band edge testing

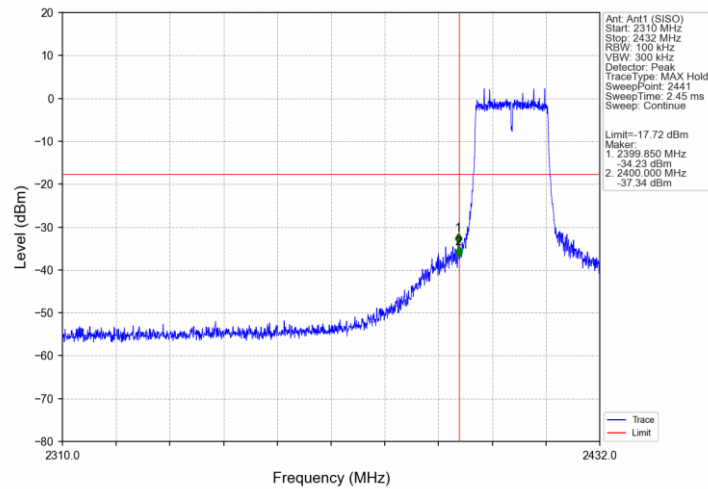
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



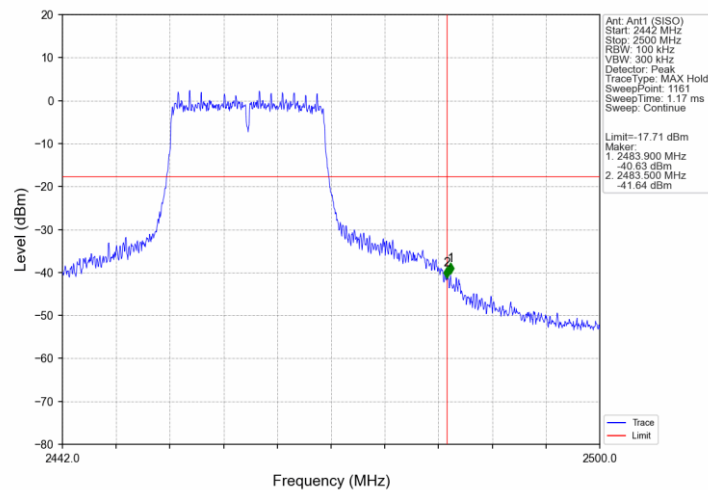
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



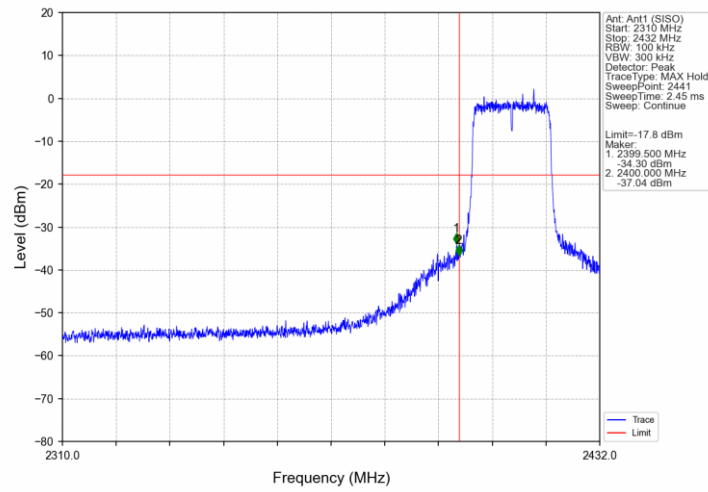
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



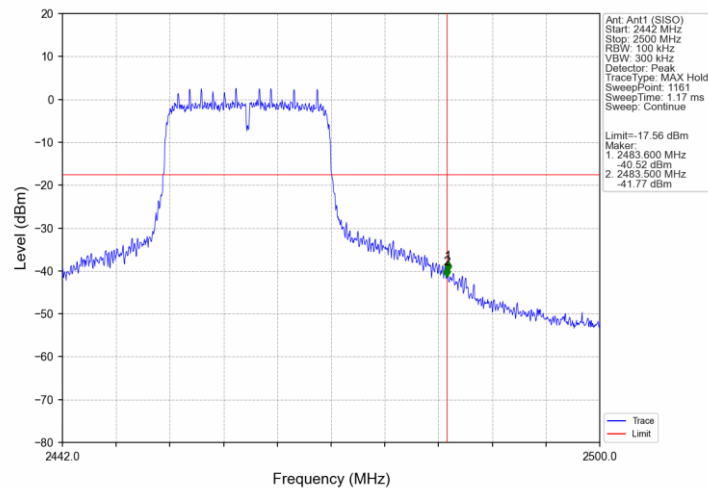
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



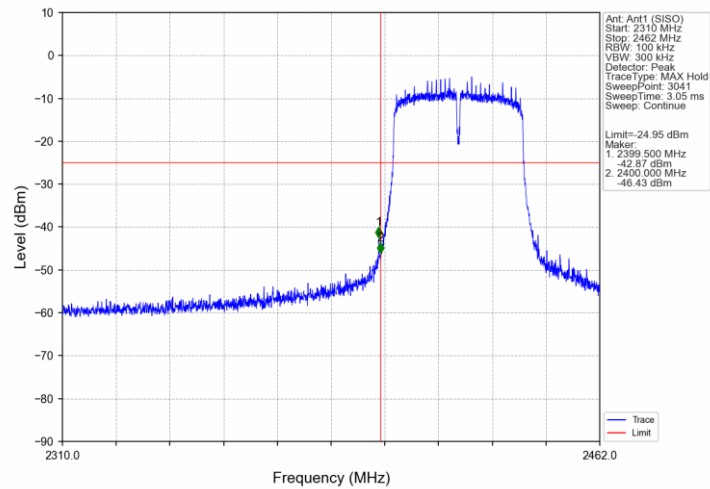
802.11n(HT20) LCH 2412MHz Ant1 (SISO) NTNV



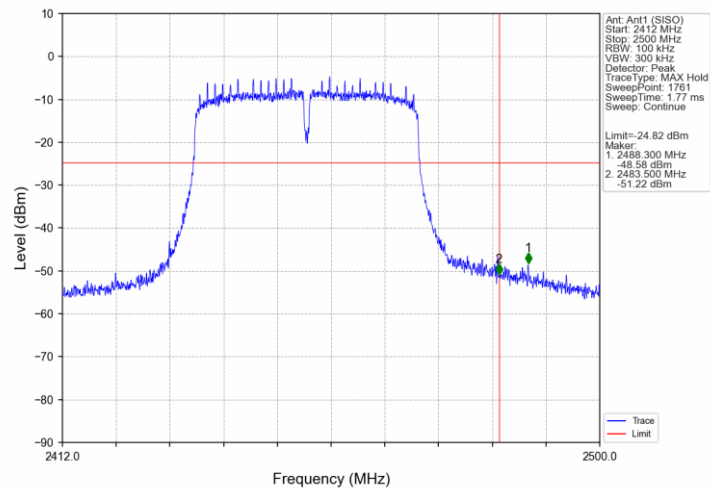
802.11n(HT20) HCH 2462MHz Ant1 (SISO) NTNV



802.11n(HT40) LCH 2422MHz Ant1 (SISO) NTV



802.11n(HT40) HCH 2452MHz Ant1 (SISO) NTV



9.7 Spurious Radiated Emissions for Transmitter

Test Method

1. The EUT was placed on a turn table which is 1.5m above ground plane for above 1GHz and 0.8m above ground for below 1GHz at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
2. The EUT was set 3 meters away from the interference – receiving antenna, which was mounted on the top of a variable – height antenna tower.
3. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
5. Use the following spectrum analyzer settings According to C63.10
 - 1) Procedure for Unwanted Emissions Measurements Below 1000 MHz
Span = wide enough to capture the peak level of the in-band emission and all spurious
RBW = 100 kHz to 120kHz, VBW ≥ RBW for peak measurement, Sweep = auto, Detector function = peak, Trace = max hold.
 - 2) For Peak unwanted emissions Above 1GHz:
Span = wide enough to capture the peak level of the in-band emission and all spurious
RBW = 1MHz, VBW ≥ RBW for peak measurement, Sweep = auto, Detector function = peak, Trace = max hold.
Procedures for average unwanted emissions measurements above 1GHz
 - a) RBW = 1MHz.
 - b) $VBW \setminus [3 \times RBW]$.
 - c) Detector = RMS (power averaging), if $[\text{span} / (\# \text{ of points in sweep})] \setminus RBW / 2$.
Satisfying this condition can require increasing the number of points in the sweep or reducing the span. If the condition is not satisfied, then the detector mode shall be set to peak.
 - d) Averaging type = power (i.e., rms) (As an alternative, the detector and averaging type may be set for linear voltage averaging. Some instruments require linear display mode to use linear voltage averaging. Log or dB averaging shall not be used.)
 - e) Sweep time = auto.
 - f) Perform a trace average of at least 100 traces if the transmission is continuous. If the transmission is not continuous, then the number of traces shall be increased by a factor of $1 / D$, where D is the duty cycle. For example, with 50% duty cycle, at least 200 traces shall be averaged. (If a specific emission is demonstrated to be continuous—i.e., 100% duty cycle—then rather than turning ON and OFF with the transmit cycle, at least 100 traces shall be averaged.)
 - g) If tests are performed with the EUT transmitting at a duty cycle less than 98%, then a correction factor shall be added to the measurement results prior to comparing with the emission limit, to compute the emission level that would have been measured had the test been performed at 100% duty cycle. The correction factor is computed as follows:
 - 1) If power averaging (rms) mode was used in the preceding step e), then the correction factor is $[10 \log (1 / D)]$, where D is the duty cycle. For example, if the transmit duty cycle was 50%, then 3 dB shall be added to the measured emission levels.
 - 2) If linear voltage averaging mode was used in the preceding step e), then the correction factor is $[20 \log (1 / D)]$, where D is the duty cycle. For example, if the transmit duty

cycle was 50%, then 6 dB shall be added to the measured emission levels.

3) If a specific emission is demonstrated to be continuous (100% duty cycle) rather than turning ON and OFF with the transmit cycle, then no duty cycle correction is required for that emission (AV) at frequency above 1GHz.

Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced 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 that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under § 15.247(b)(3) and RSS 247 section 5.4(d), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in § 15.209(a) and RSS-Gen is not required. In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a) and RSS-Gen section 8.9, must also comply with the radiated emission limits specified in § 15.209(a) and RSS-Gen section 8.10.

RSS-Gen section 8.9 General field strength limits at frequencies below 30 MHz:

Frequency MHz	Magnetic field strength (H-Field) (μA/m) μV/m	Measurement distance meters
0.009-0.490	6.37/F (F in kHz)	300
0.490-1.705	63.7/F (F in kHz)	30
1.705-30	0.08	30

When the limit is in terms of magnetic field, the following equation applies:

$$H[\text{dB}(\mu\text{A/m})] = V[\text{dB}(\mu\text{V})] + L_c [\text{dB}] - \text{GPA} [\text{dB}] + \text{AFE} [\text{dB(m-1)}] - 51.5 [\text{dB}\Omega]$$

When the limit is in terms of electric field, the following equation applies:

$$E[\text{dB}(\mu\text{V/m})] = V[\text{dB}(\mu\text{V})] + L_c [\text{dB}] - \text{GPA} [\text{dB}] + \text{AFE} [\text{dB(m-1)}]$$

The magnetic field limit is converted to the electric field limit by the equation:

$$E_{\text{limit}}[\text{dB}(\mu\text{V/m})] = H_{\text{limit}} [\text{dB}(\mu\text{A/m})] + 51.5 [\text{dB}\Omega]$$

where

H is the magnetic field strength (to be compared with the limit),

V is the voltage level measured by the receiver or spectrum analyzer.

Lc is the cable loss.

GPA is the gain of the preamplifier (if used), and AFH is the magnetic antenna factor.

FCC&ISED general limit:

Frequency MHz	Field Strength $\mu\text{V/m}$	Field Strength $\text{dB}\mu\text{V/m}$	Detector	Measurement distance meters
0.009-0.490	2400/F(kHz)	48.5-13.8	AV	300
0.490-1.705	24000/F(kHz)	33.8-23.0	QP	30
1.705-30	30	29.5	QP	30
30-88	100	40	QP	3
88-216	150	43.5	QP	3
216-960	200	46	QP	3
960-1000	500	54	QP	3
Above 1000	500	54	AV	3
Above 1000	5000	74	PK	3

Note 1: Limit $3\text{m(dB}\mu\text{V/m)} = \text{Limit } 300\text{m(dB}\mu\text{V/m)} + 40\text{Log}(300\text{m}/3\text{m})$ (Below 30MHz)

Note 2: Limit $3\text{m(dB}\mu\text{V/m)} = \text{Limit } 30\text{m(dB}\mu\text{V/m)} + 40\text{Log}(30\text{m}/3\text{m})$ (Below 30MHz)

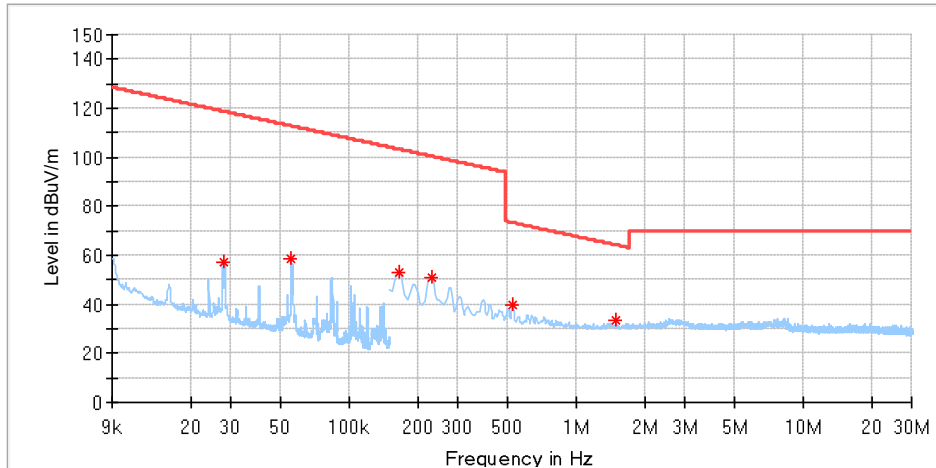
According to C63.10, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement, so AV emission value did not show in below table if the peak value complies with average limit.

Spurious Radiated Emissions for Transmitter

Only the worst case (802.11b) test result is listed in the report.

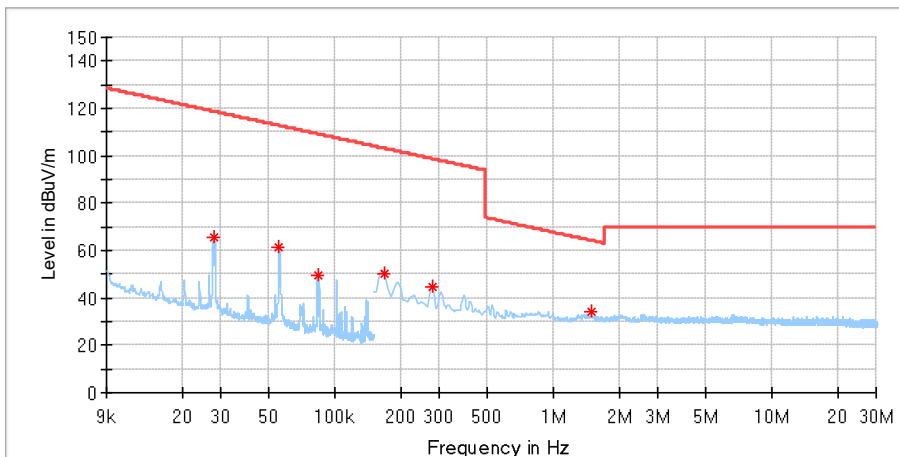
Transmitting spurious emission test result as below:

802.11b_2412 (9kHz-30MHz)



Critical_Freqs

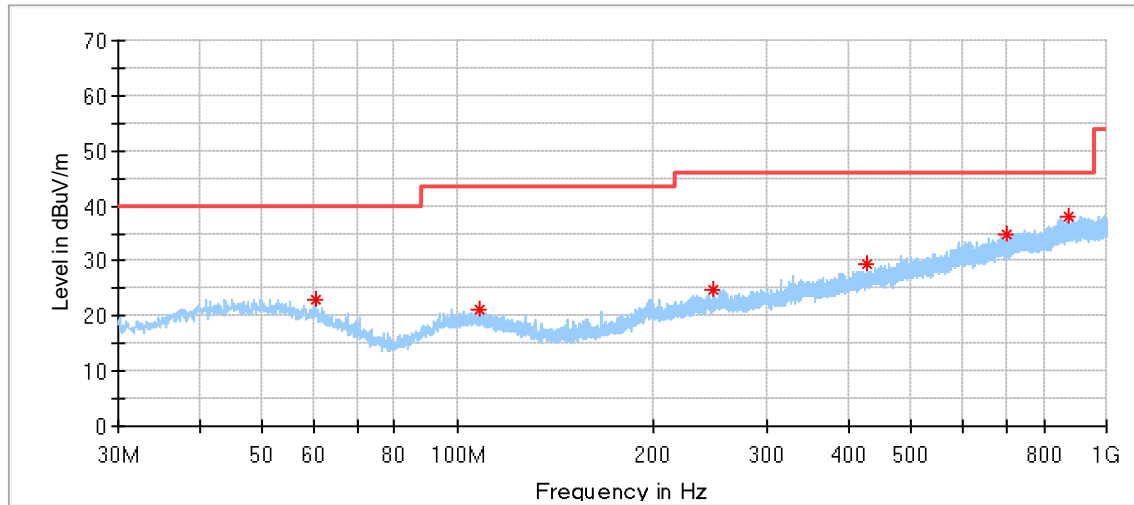
Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol	Azimuth (deg)	Corr. (dB/m)
0.028176	57.50	118.59	61.09	H	83.0	19.88
0.055577	58.78	112.70	53.92	H	288.0	19.92
0.164925	53.01	103.25	50.24	H	122.0	19.89
0.229600	51.12	100.38	49.26	H	63.0	19.88
0.528100	39.58	73.15	33.57	H	181.0	19.89
1.493250	33.33	64.15	30.82	H	43.0	19.99



Critical_Freqs

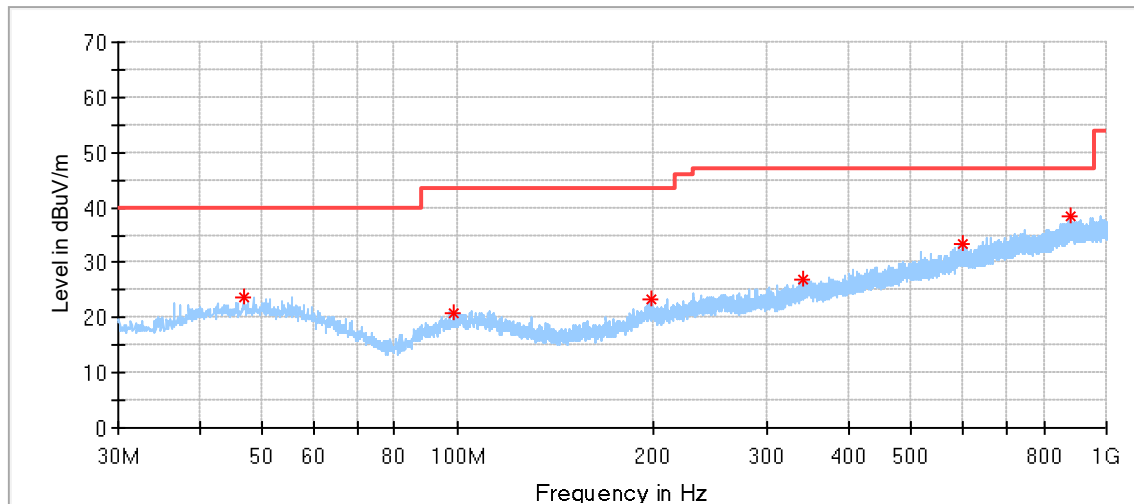
Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol	Azimuth (deg)	Corr. (dB/m)
0.027753	65.47	118.72	53.25	V	10.0	19.88
0.055577	61.44	112.70	51.25	V	215.0	19.92
0.083448	49.76	109.17	59.40	V	151.0	19.92
0.169900	50.48	103.00	52.52	V	113.0	19.89
0.279350	44.86	98.68	53.81	V	152.0	19.90
1.498225	33.86	64.12	30.26	V	132.0	19.99

802.11b_2412_(30MHz-1GHz)



Critical_Freqs

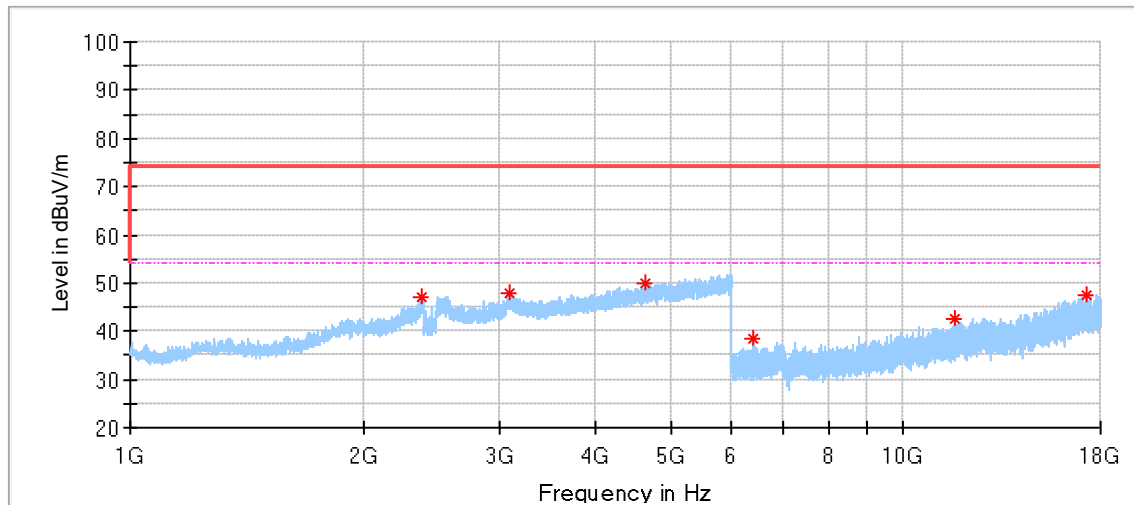
Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
60.339444	23.02	40.00	16.98	200.0	H	210.0	16.54
108.462222	21.24	43.50	22.26	200.0	H	183.0	15.57
247.441667	24.88	46.00	21.12	200.0	H	119.0	17.76
426.406667	29.45	46.00	16.55	200.0	H	220.0	21.75
699.407778	34.84	46.00	11.16	200.0	H	36.0	26.43
875.786111	38.16	46.00	7.84	200.0	H	256.0	29.32



Critical_Freqs

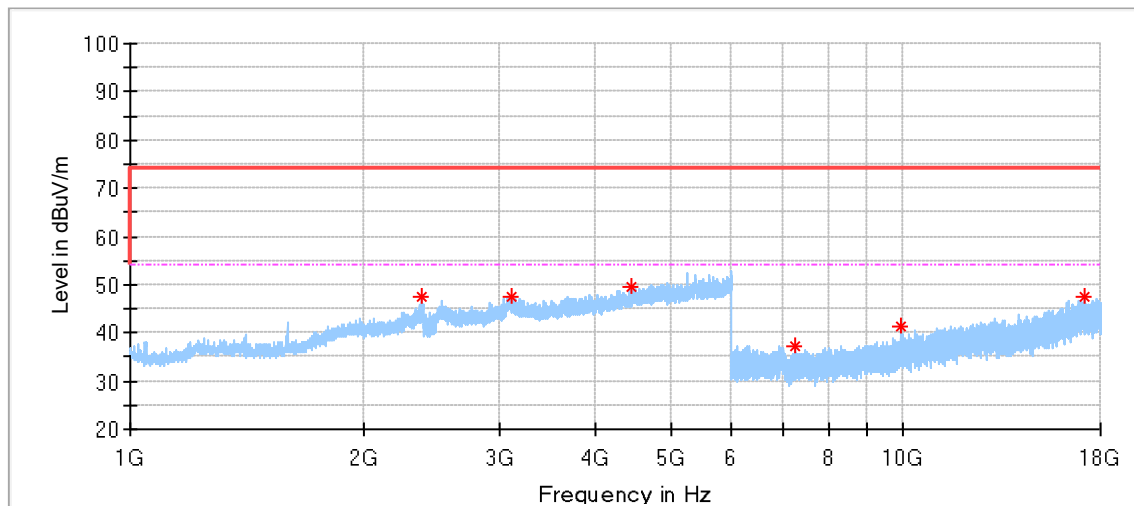
Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
46.813333	23.54	40.00	16.46	100.0	V	133.0	18.19
98.654444	20.84	43.50	22.66	100.0	V	79.0	15.49
198.456667	23.50	43.50	20.00	100.0	V	351.0	16.41
341.747222	26.85	47.00	20.15	100.0	V	322.0	20.01
598.743333	33.26	47.00	13.74	100.0	V	20.0	25.18
880.366667	38.31	47.00	8.69	100.0	V	217.0	29.41

802.11b_2412_(1-18GHz)



Critical_Freqs

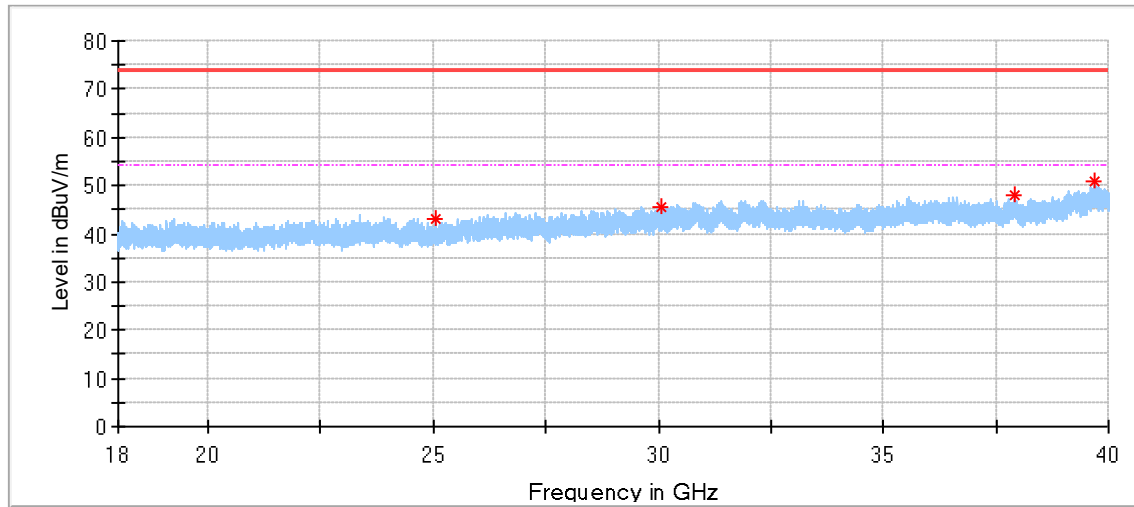
Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2386.500000	47.06	74.00	26.94	150.0	H	126.0	-1.55
3097.000000	47.90	74.00	26.10	150.0	H	351.0	2.69
4630.000000	49.82	74.00	24.18	150.0	H	233.0	5.19
6411.500000	38.28	74.00	35.72	150.0	H	0.0	8.60
11654.500000	42.66	74.00	31.34	150.0	H	130.0	15.56
17236.500000	47.34	74.00	26.66	150.0	H	154.0	24.29



Critical_Freqs

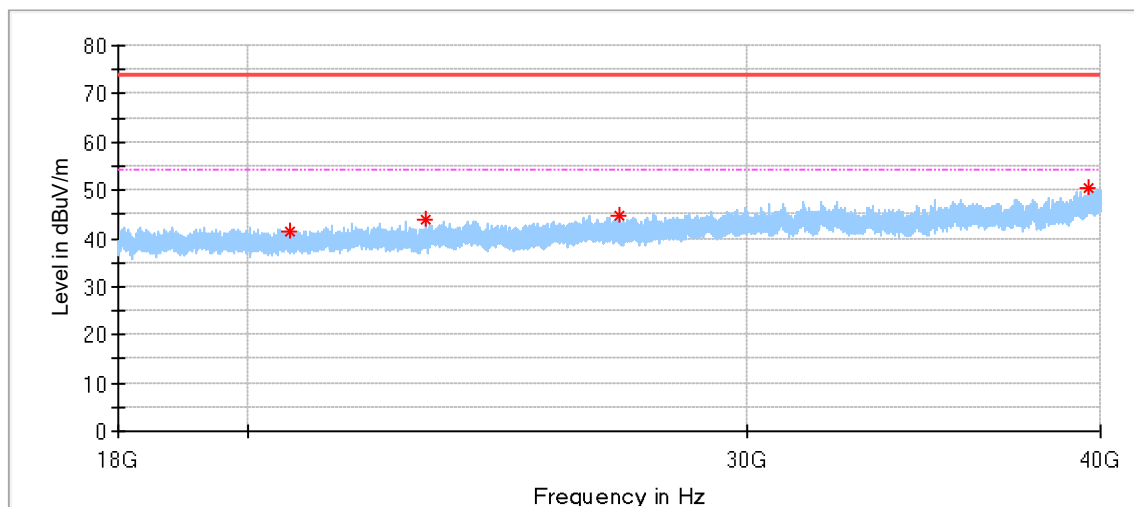
Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2385.500000	47.63	74.00	26.37	150.0	V	111.0	-1.56
3115.000000	47.56	74.00	26.44	150.0	V	352.0	2.32
4452.500000	49.67	74.00	24.33	150.0	V	283.0	4.55
7237.500000	37.34	74.00	36.66	150.0	V	181.0	9.07
9906.500000	41.48	74.00	32.52	150.0	V	84.0	13.02
17147.500000	47.60	74.00	26.40	150.0	V	255.0	24.44

802.11b_2412_(18-40GHz)



Critical Freqs

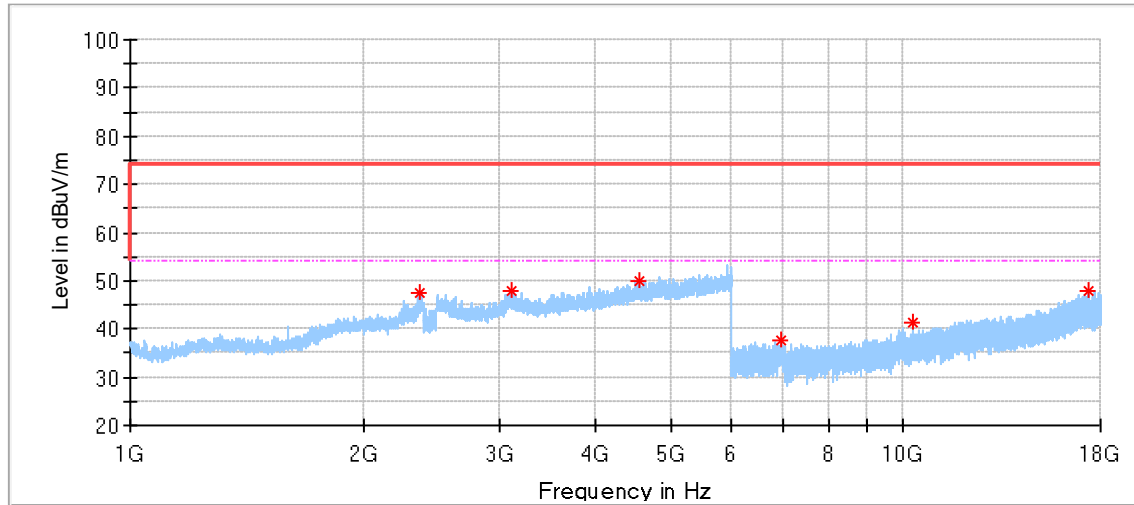
Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
25033.812500	42.89	74.00	31.11	150.0	H	204.0	0.35
30056.687500	45.60	74.00	28.40	150.0	H	345.0	1.93
37918.250000	47.92	74.00	26.08	150.0	H	97.0	2.85
39692.000000	50.84	74.00	23.16	150.0	H	44.0	6.44



Critical Freqs

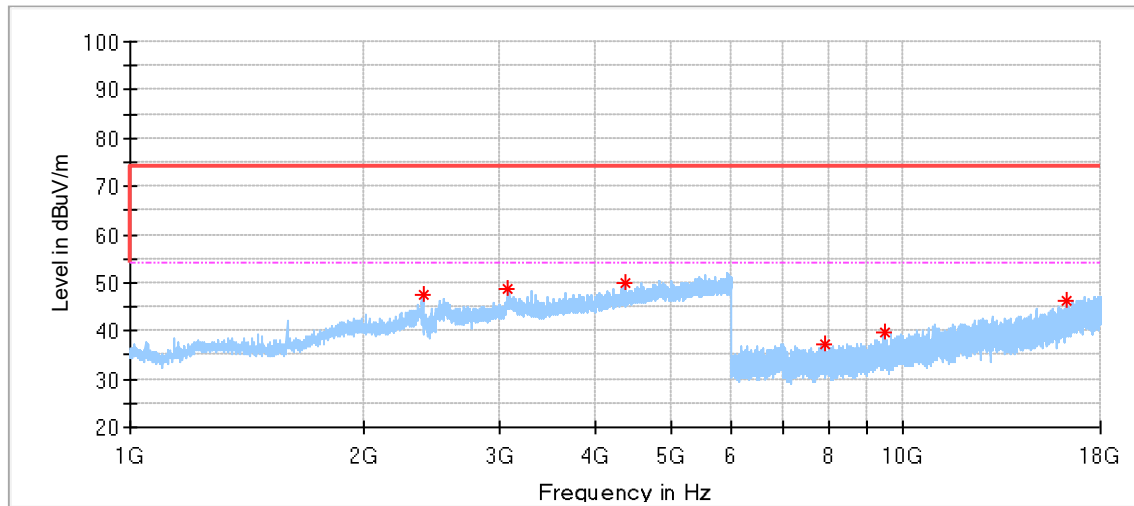
Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
20710.125000	41.59	74.00	32.41	150.0	V	18.0	-2.29
23097.812500	43.89	74.00	30.11	150.0	V	144.0	0.02
27042.000000	44.56	74.00	29.44	150.0	V	237.0	1.93
39589.562500	50.42	74.00	23.58	150.0	V	359.0	6.14

802.11b_2437_(1-18GHz)



Critical Freqs

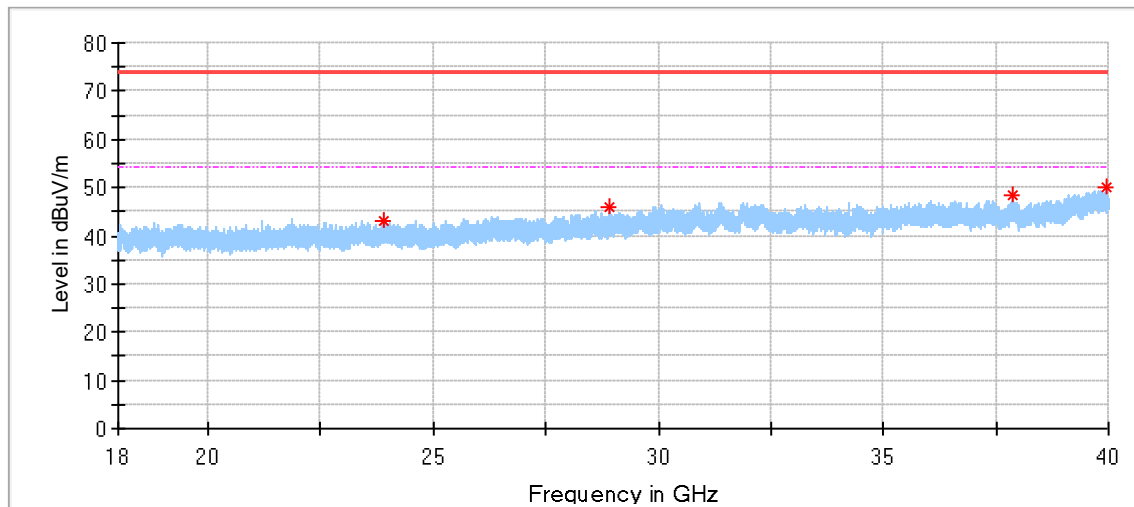
Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2374.500000	47.46	74.00	26.54	150.0	H	328.0	-1.71
3107.500000	47.78	74.00	26.22	150.0	H	316.0	2.52
4560.000000	50.10	74.00	23.90	150.0	H	244.0	5.01
6966.000000	37.74	74.00	36.26	150.0	H	24.0	9.51
10264.000000	41.15	74.00	32.85	150.0	H	232.0	13.47
17366.500000	47.73	74.00	26.27	150.0	H	209.0	24.44



Critical Freqs

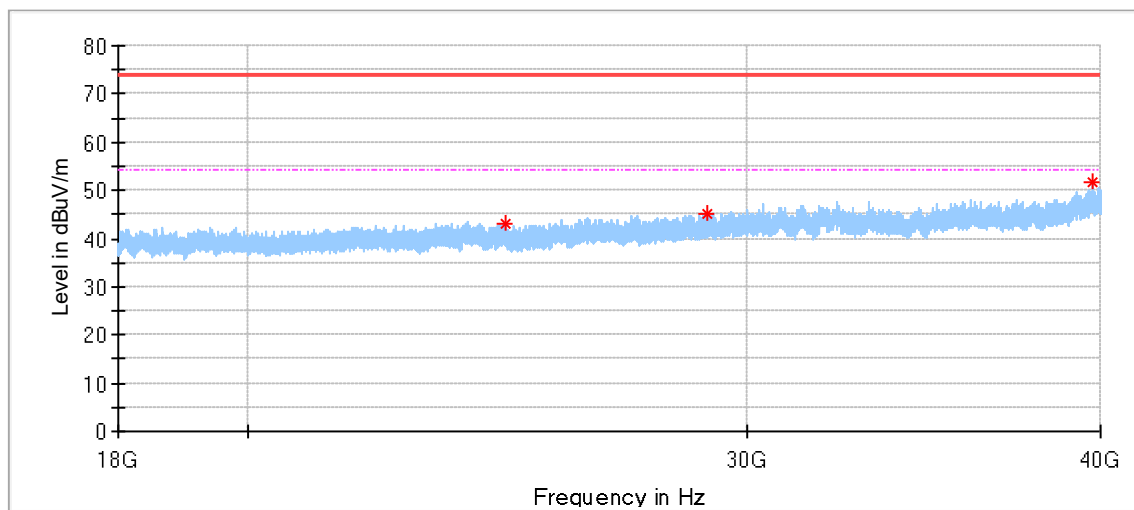
Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2393.000000	47.43	74.00	26.57	150.0	V	127.0	-1.45
3086.000000	48.63	74.00	25.37	150.0	V	307.0	2.40
4358.000000	49.83	74.00	24.17	150.0	V	103.0	4.09
7935.000000	37.33	74.00	36.67	150.0	V	356.0	9.93
9468.500000	39.85	74.00	34.15	150.0	V	80.0	12.42
16223.000000	46.09	74.00	27.91	150.0	V	8.0	21.75

802.11b_2437_(18-40GHz)



Critical_Freqs

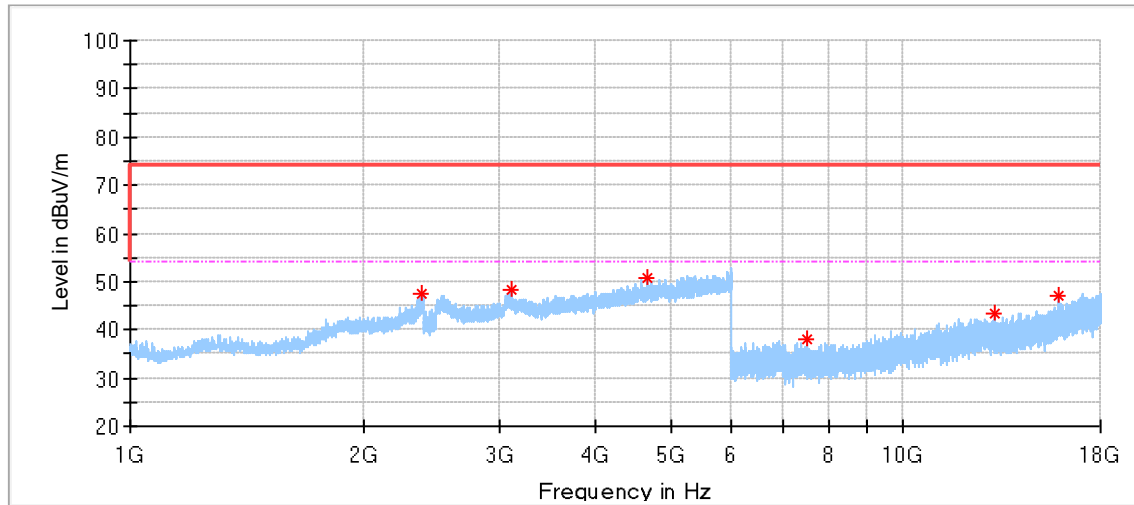
Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
23900.125000	43.09	74.00	30.91	150.0	H	33.0	0.67
28920.937500	45.81	74.00	28.19	150.0	H	194.0	1.89
37865.312500	48.25	74.00	25.75	150.0	H	9.0	2.87
39967.000000	50.05	74.00	23.95	150.0	H	234.0	7.33



Critical_Freqs

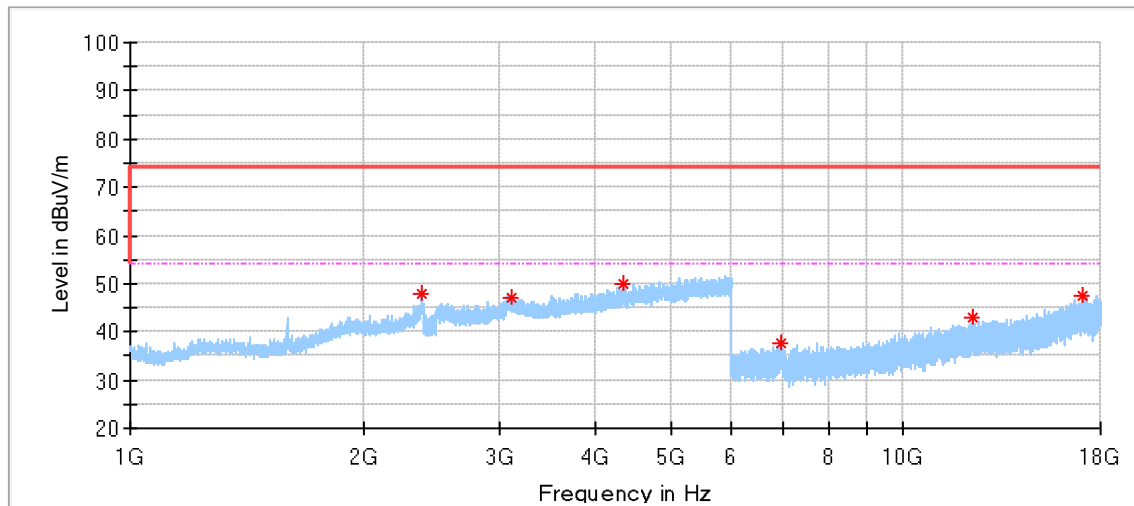
Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
24658.437500	43.04	74.00	30.96	150.0	V	48.0	0.39
29037.125000	44.94	74.00	29.06	150.0	V	145.0	1.86
39741.500000	51.54	74.00	22.46	150.0	V	4.0	6.59

802.11b_2462_(1-18GHz)



Critical Freqs

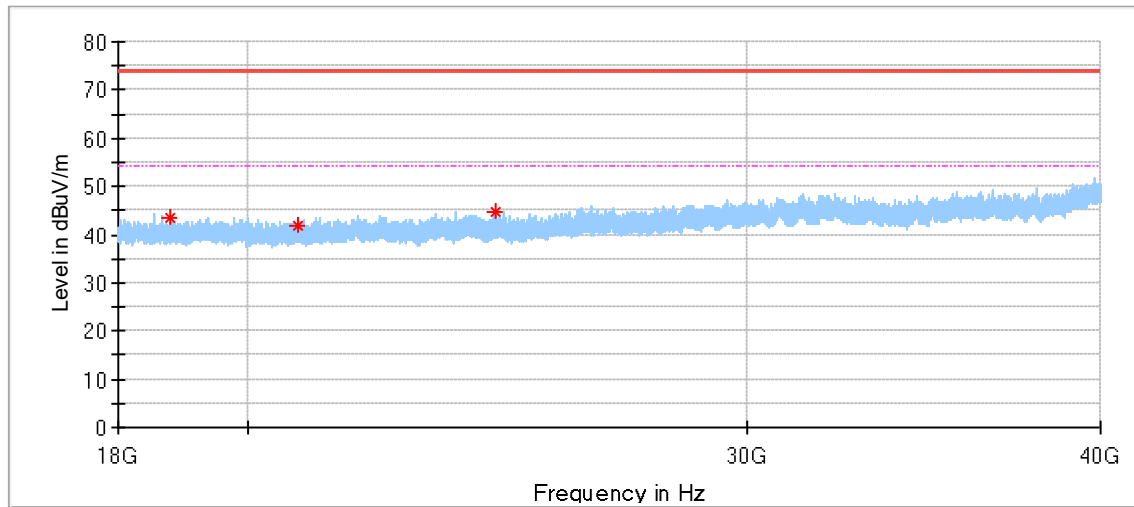
Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2386.500000	47.33	74.00	26.67	150.0	H	325.0	-1.55
3114.500000	48.48	74.00	25.52	150.0	H	252.0	2.34
4676.000000	50.64	74.00	23.36	150.0	H	13.0	5.27
7529.000000	38.08	74.00	35.92	150.0	H	302.0	9.61
13115.500000	43.45	74.00	30.56	150.0	H	52.0	16.54
15924.000000	47.12	74.00	26.88	150.0	H	105.0	20.96



Critical Freqs

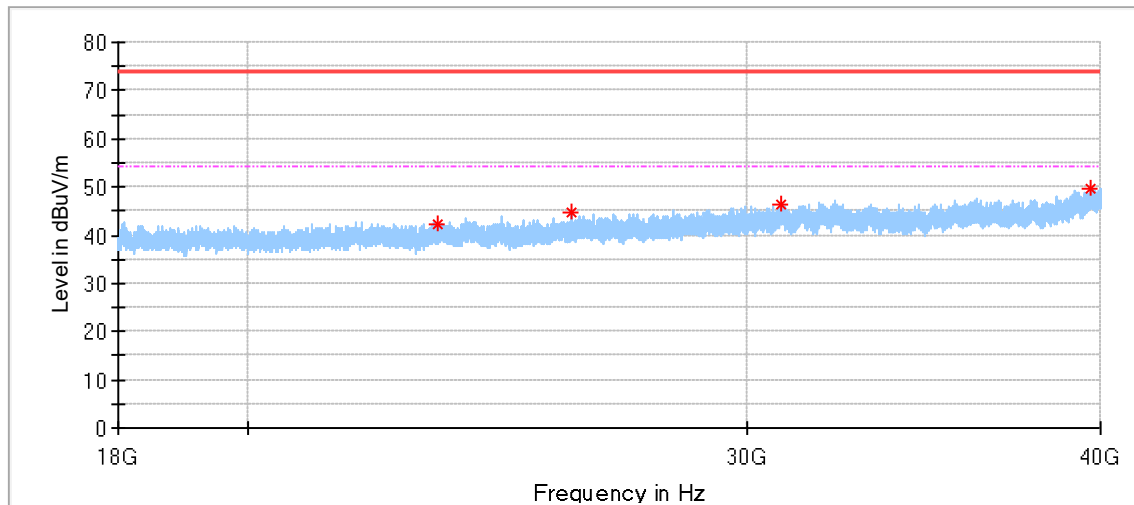
Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2385.500000	47.70	74.00	26.30	150.0	V	110.0	-1.56
3111.000000	47.16	74.00	26.84	150.0	V	229.0	2.42
4355.500000	49.79	74.00	24.21	150.0	V	241.0	4.09
6950.000000	37.59	74.00	36.41	150.0	V	278.0	9.57
12322.000000	42.88	74.00	31.12	150.0	V	278.0	16.51
17029.500000	47.69	74.00	26.31	150.0	V	54.0	24.56

802.11b_2462_(18-40GHz)



Critical_Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Corr. (dB)
18788.562500	43.57	74.00	30.43	150.0	H	0.0	-4.44	---
20846.250000	41.76	74.00	32.24	150.0	H	0.0	-2.07	---
24450.812500	44.78	74.00	29.22	150.0	H	15.0	0.49	---

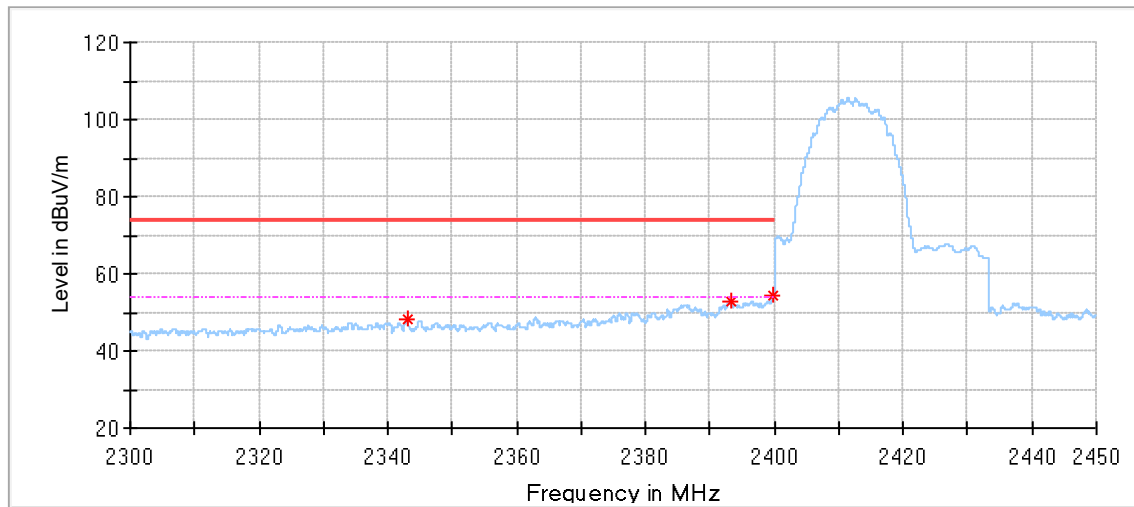


Critical_Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
23345.312500	42.24	74.00	31.76	150.0	V	60.0	0.20
26027.250000	44.53	74.00	29.47	150.0	V	30.0	1.76
30859.687500	46.50	74.00	27.50	150.0	V	345.0	2.00
39664.500000	49.56	74.00	24.44	150.0	V	45.0	6.36

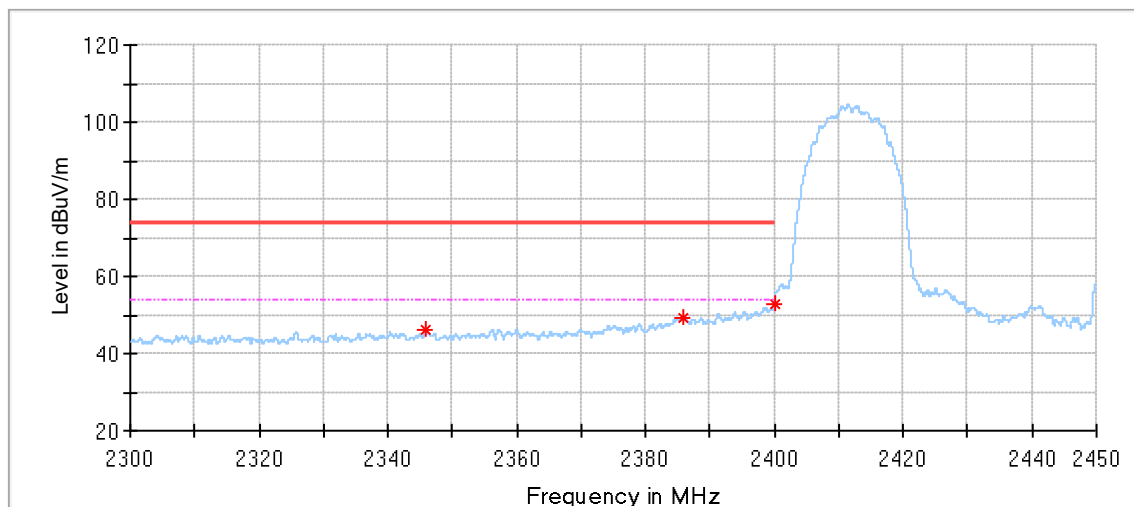
Restricted-band band-edge

802.11b_2412



Critical Freqs

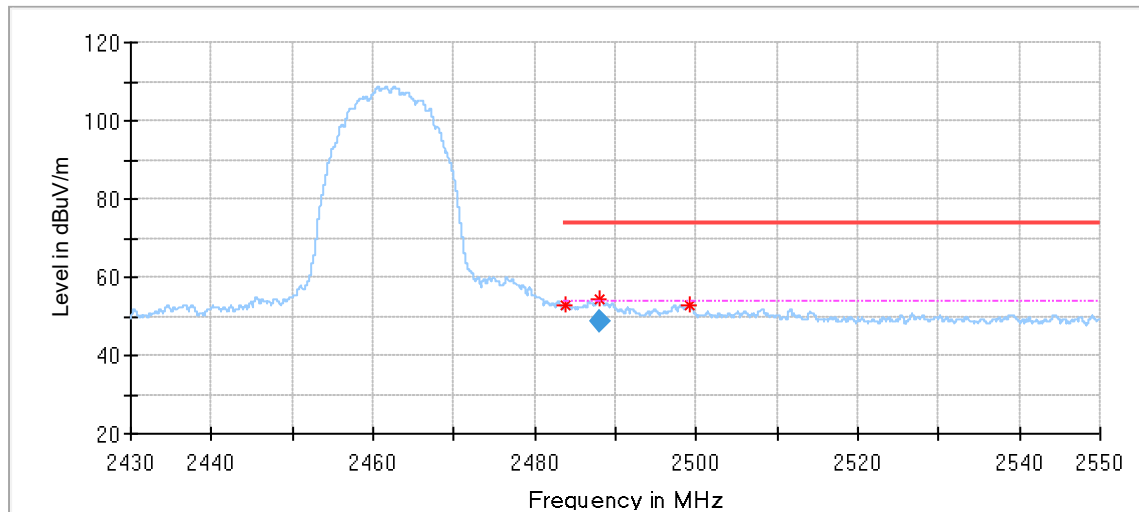
Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2342.960000	47.96	74.00	26.04	150.0	H	348.0	-2.40
2393.255000	52.78	74.00	21.22	150.0	H	336.0	-1.87



Critical Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2345.915000	46.03	74.00	27.97	150.0	V	129.0	-2.41
2385.725000	49.35	74.00	24.65	150.0	V	104.0	-1.99

802.11b_2462

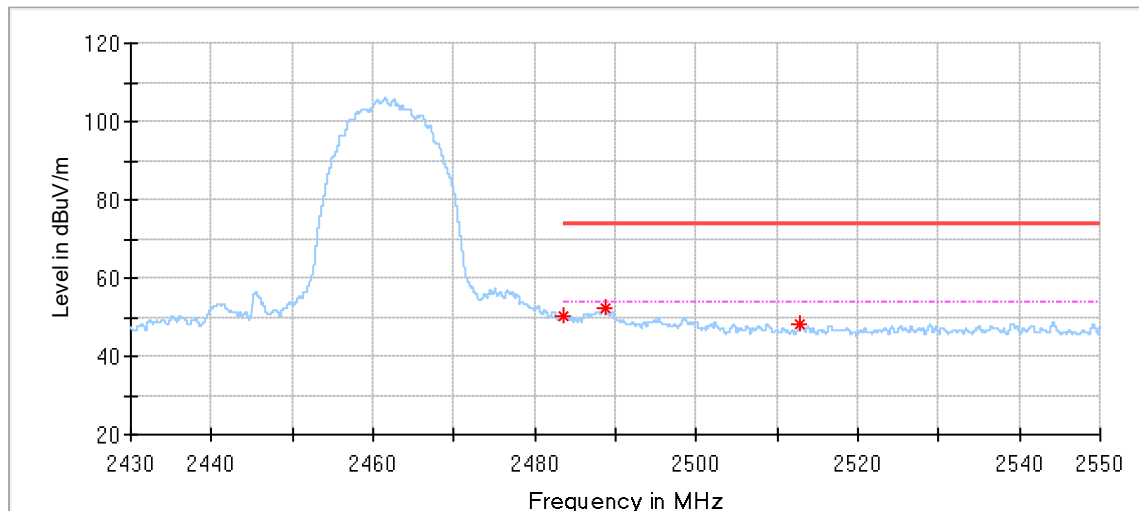


Critical Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.500000	52.63	74.00	21.37	150.0	H	335.0	-1.45
2488.068000	54.57	74.00	19.43	150.0	H	335.0	-1.46
2499.180000	52.95	74.00	21.05	150.0	H	335.0	-1.48

Final Result

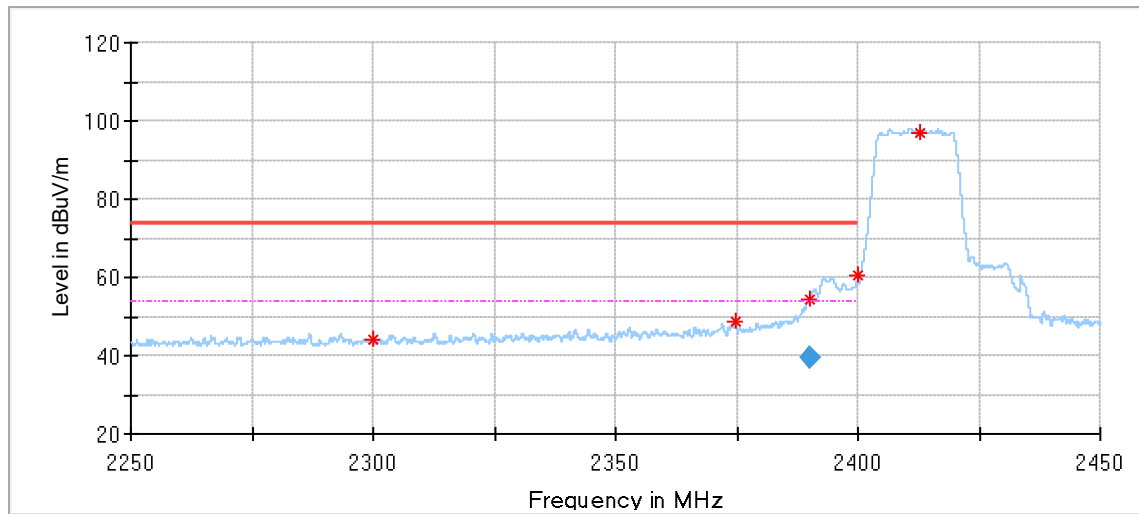
Frequency (MHz)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2488.068000	48.95	54.00	5.05	150.0	H	335.0	-1.46



Critical Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.500000	50.34	74.00	23.66	150.0	V	92.0	-1.45
2488.644000	52.12	74.00	21.88	150.0	V	92.0	-1.46
2512.788000	48.33	74.00	25.67	150.0	V	92.0	-1.45

802.11g_2412

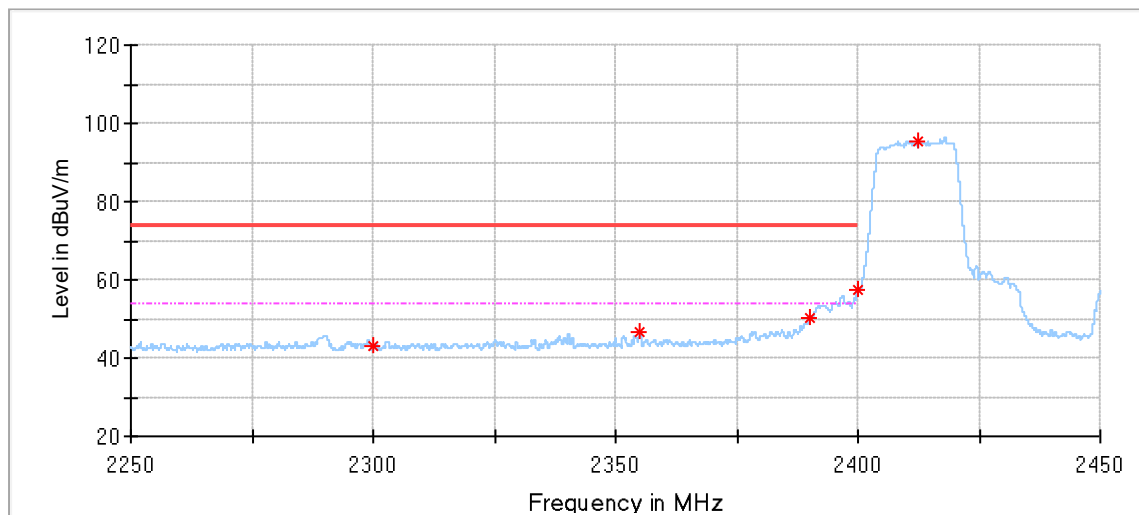


Critical_Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2300.200000	44.09	74.00	29.91	150.0	H	157.0	-2.19
2374.660000	48.79	74.00	25.21	150.0	H	133.0	-2.16
2389.980000	54.55	74.00	19.45	150.0	H	166.0	-1.92

Final_Result

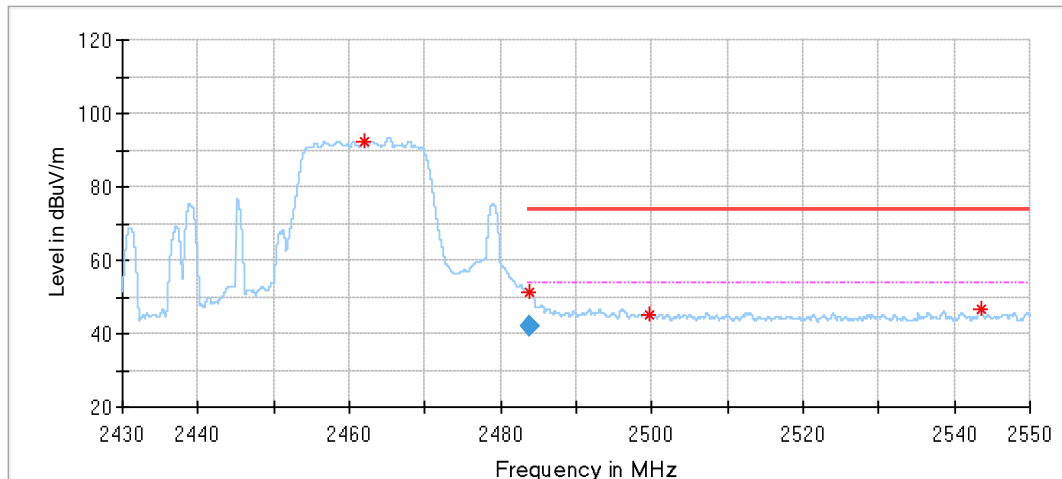
Frequency (MHz)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2389.980000	39.60	54.00	14.00	150.0	H	166.0	-1.92



Critical_Freqs

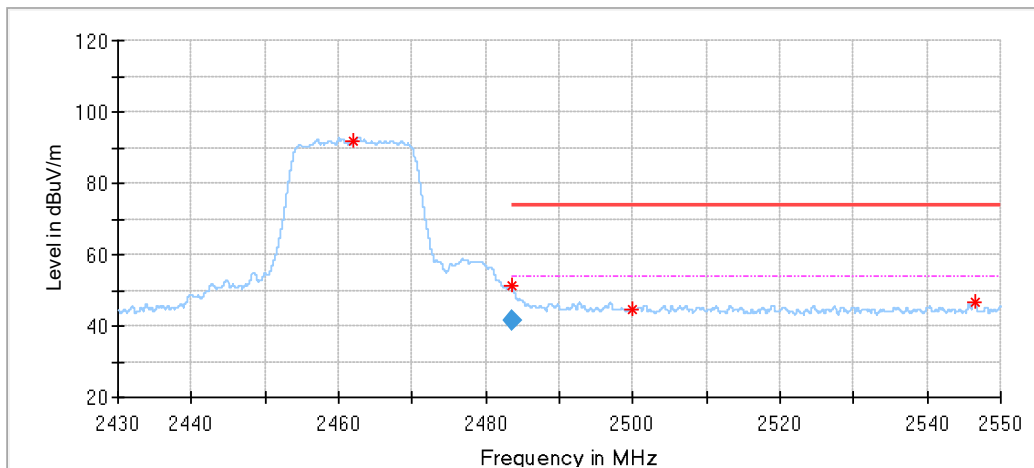
Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2299.880000	43.23	74.00	30.77	150.0	V	203.0	-2.19
2355.020000	46.64	74.00	27.36	150.0	V	226.0	-2.41
2389.980000	50.40	74.00	23.60	150.0	V	289.0	-1.92

802.11g_2462



Critical_Freqs

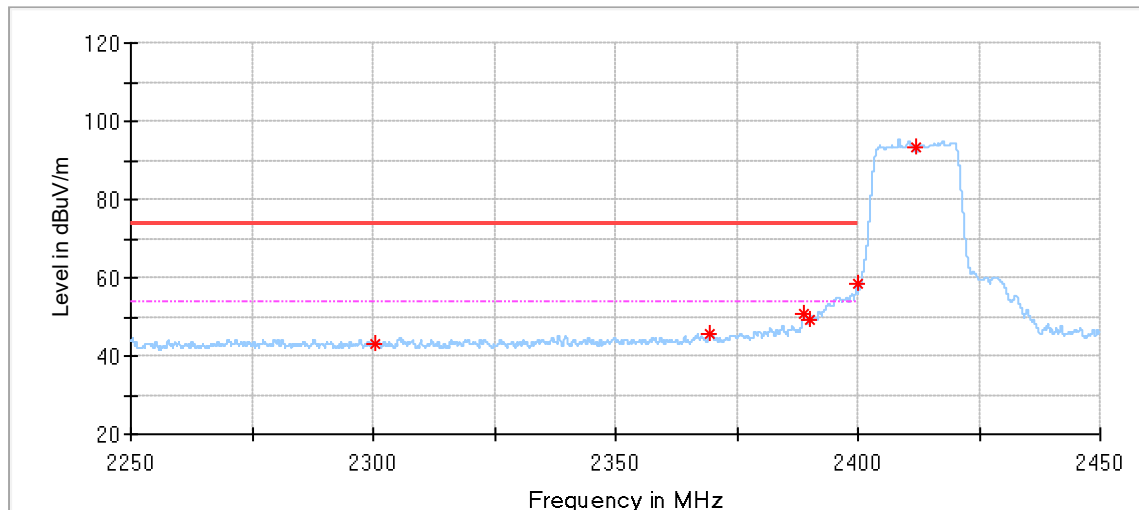
Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2461.908000	92.33	---	---	150.0	H	153.0	-1.46
2483.500000	51.31	74.00	22.69	150.0	H	163.0	-1.45
2499.672000	45.25	74.00	28.75	150.0	H	108.0	-1.48
2543.448000	46.70	74.00	27.30	150.0	H	174.0	-1.08



Critical_Freqs

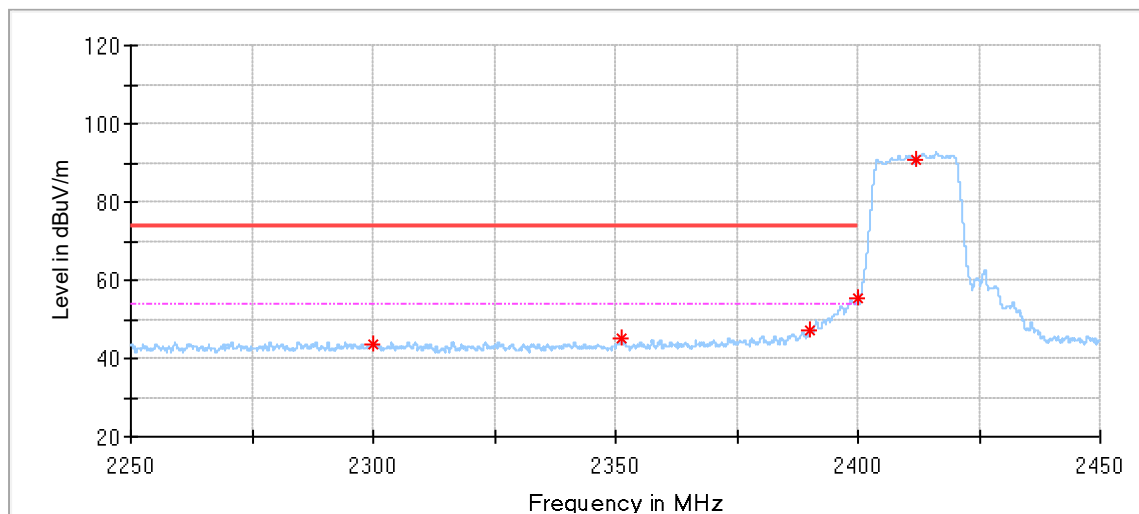
Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2462.004000	91.57	---	---	150.0	V	269.0	-1.46
2483.508000	51.09	74.00	22.91	150.0	V	307.0	-1.45
2499.984000	44.61	74.00	29.39	150.0	V	316.0	-1.48
2546.412000	46.86	74.00	27.14	150.0	V	269.0	-1.03

802.11n20_2412



Critical Freqs

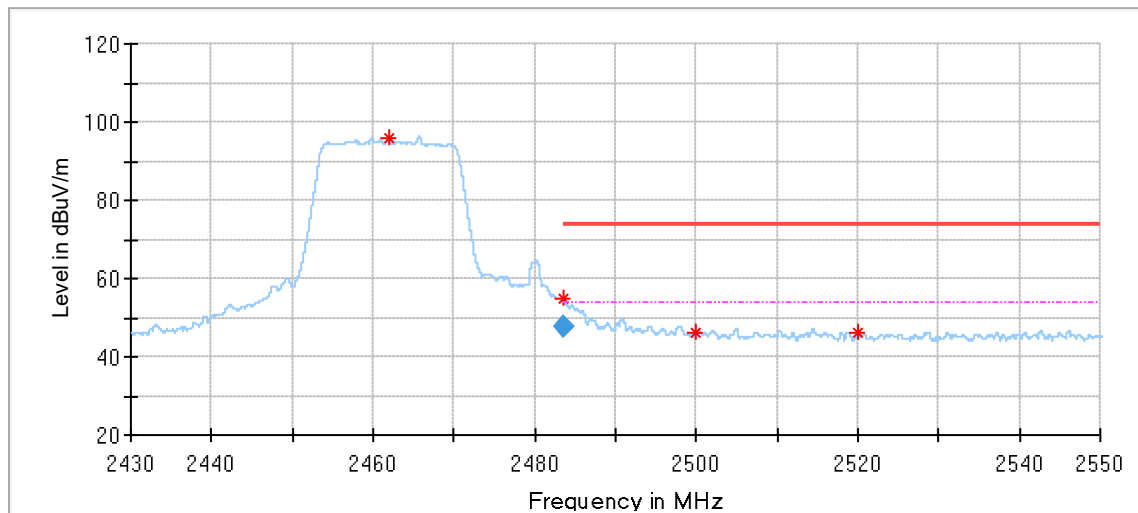
Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Corr. (dB)
2300.280000	43.23	74.00	30.77	150.0	H	229.0	-2.19	---
2369.560000	45.82	74.00	28.18	150.0	H	166.0	-2.22	---
2389.020000	50.82	74.00	23.18	150.0	H	166.0	-1.93	---
2390.000000	49.18	74.00	24.82	150.0	H	166.0	-1.92	---



Critical Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2300.020000	43.82	74.00	30.18	150.0	V	66.0	-2.19
2351.160000	45.34	74.00	28.66	150.0	V	274.0	-2.43
2390.000000	47.07	74.00	26.93	150.0	V	266.0	-1.92

802.11n20_2462

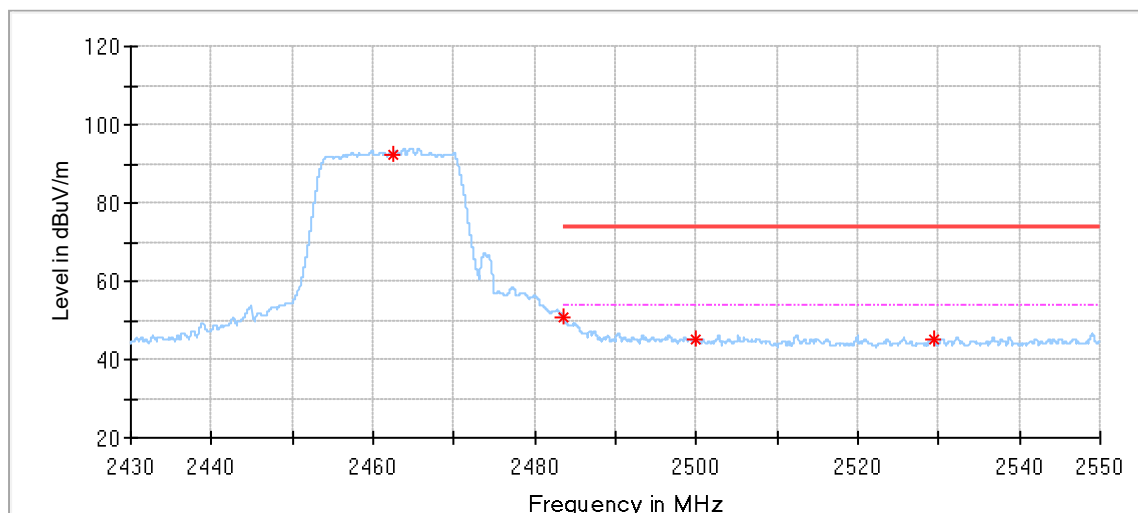


Critical_Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.508000	54.64	74.00	19.36	150.0	H	171.0	-1.45
2499.996000	46.08	74.00	27.92	150.0	H	161.0	-1.48
2519.964000	46.07	74.00	27.93	150.0	H	161.0	-1.43

Final_Result

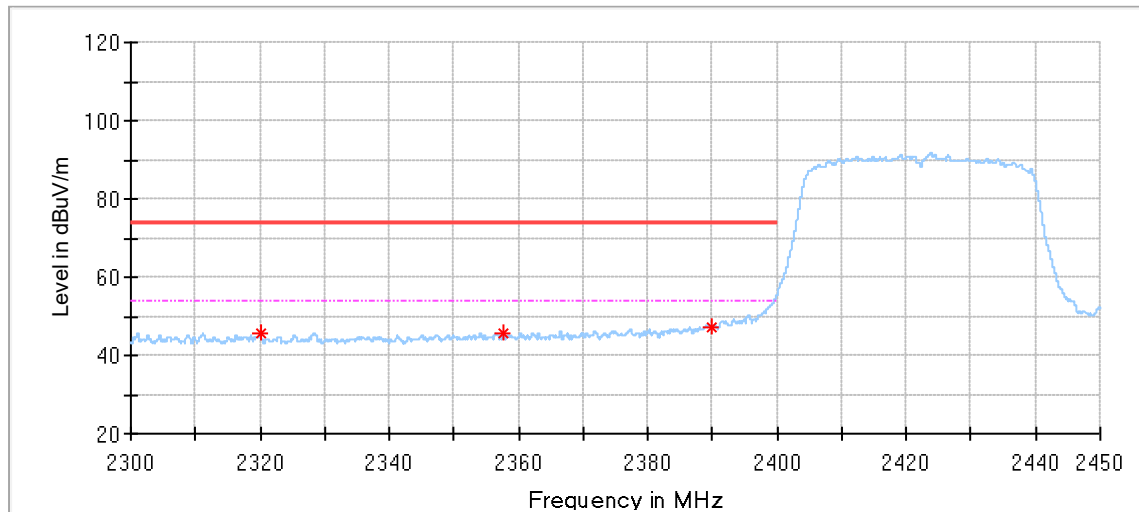
Frequency (MHz)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.508000	47.47	54.00	6.53	150.0	H	171.0	-1.45



Critical_Freqs

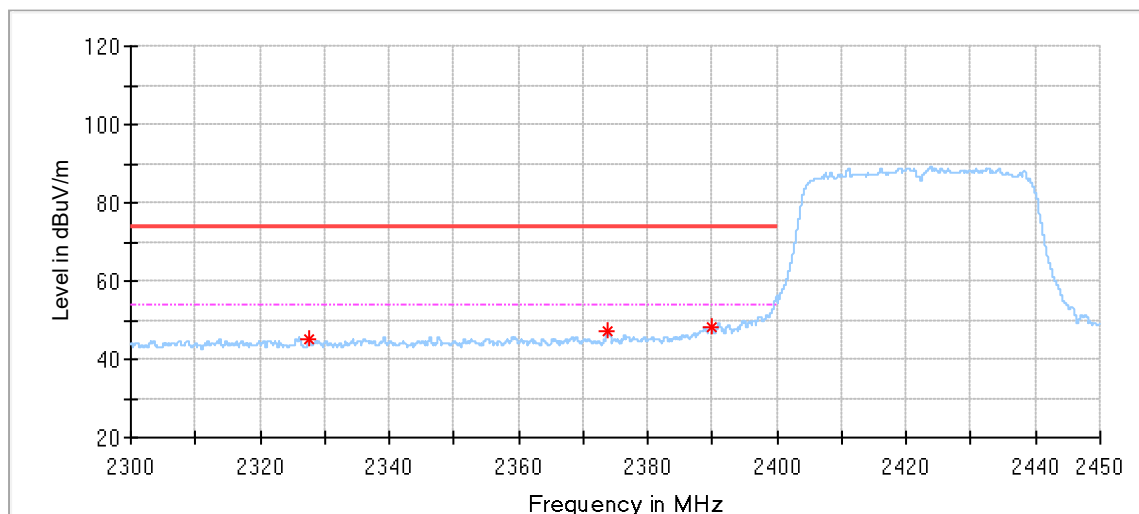
Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.508000	50.98	74.00	23.02	150.0	V	300.0	-1.45
2499.996000	44.89	74.00	29.11	150.0	V	251.0	-1.48
2529.348000	45.32	74.00	28.68	150.0	V	261.0	-1.31

802.11n40_2422



Critical_Freqs

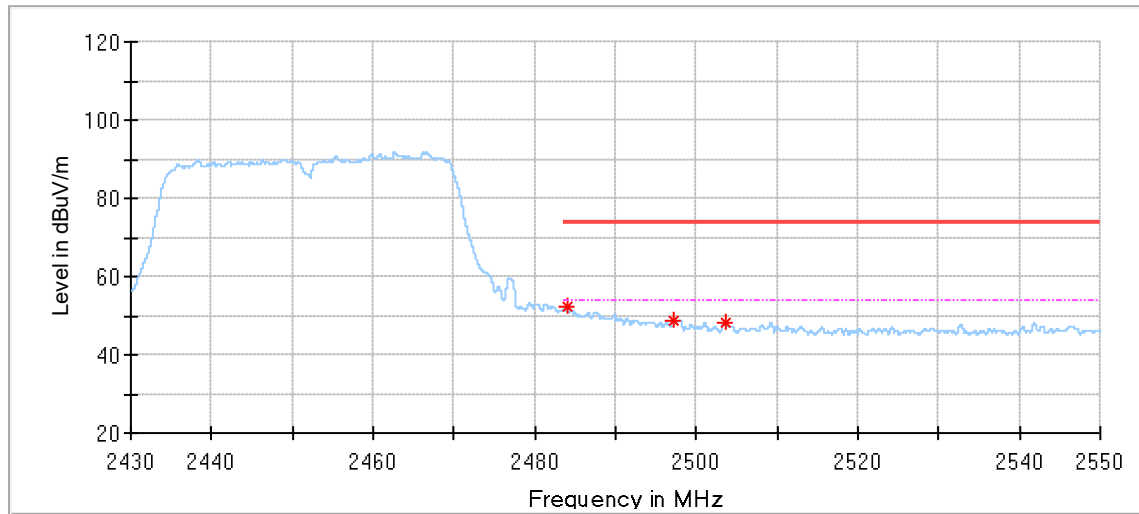
Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2320.040000	45.63	74.00	28.37	150.0	H	336.0	-2.27
2357.630000	45.78	74.00	28.22	150.0	H	347.0	-2.38
2389.835000	47.19	74.00	26.81	150.0	H	336.0	-1.92



Critical_Freqs

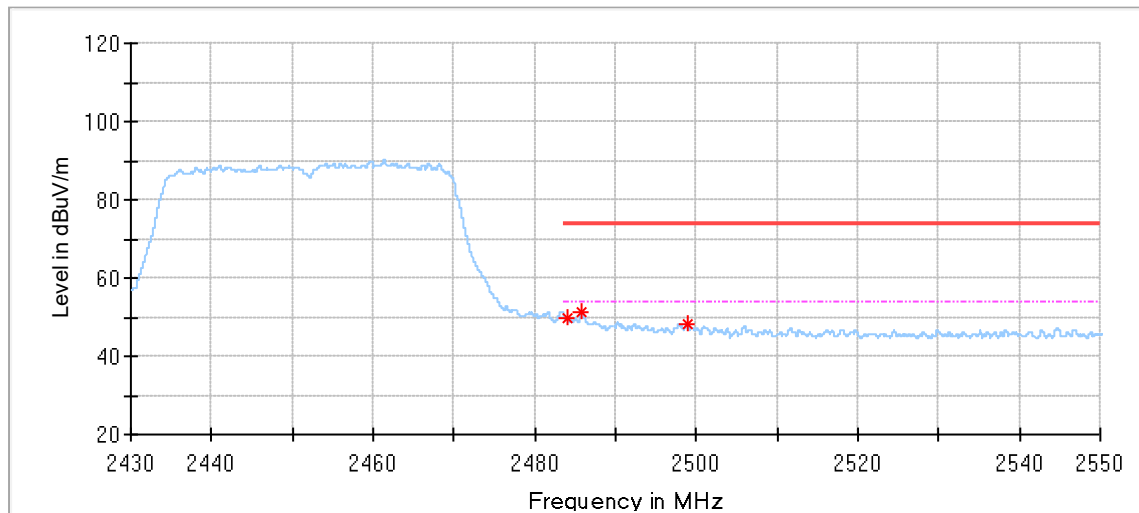
Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2327.435000	45.32	74.00	28.68	150.0	V	57.0	-2.32
2373.905000	46.98	74.00	27.02	150.0	V	81.0	-2.17
2389.805000	48.42	74.00	25.58	150.0	V	69.0	-1.92

802.11n40_2452



Critical_Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.500000	52.23	74.00	21.77	150.0	H	329.0	-1.45
2497.296000	48.92	74.00	25.08	150.0	H	329.0	-1.48
2503.608000	48.36	74.00	25.64	150.0	H	329.0	-1.47



Critical_Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.500000	49.60	74.00	24.40	150.0	V	85.0	-1.45
2485.848000	51.17	74.00	22.83	150.0	V	123.0	-1.45
2498.832000	48.07	74.00	25.93	150.0	V	97.0	-1.48

Remark:

- (1) Level= Reading Level + Correction Factor
- (2) Above 1GHz: Corrector factor = Antenna Factor + Cable Loss- Amplifier Gain
Below 1GHz: Corrector factor = Antenna Factor + Cable Loss
(The Reading Level is recorded by software which is not shown in the sheet)

10 Test Equipment List

List of Test Instruments

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	68-4-74-14-001	101782	1	2026-4-25
LISN	Rohde & Schwarz	ENV432	68-4-87-16-001	101318	1	2026-4-25
LISN	Rohde & Schwarz	ENV4200	68-4-87-14-001	100249	1	2026-4-25
Attenuator	Shanghai Huaxiang	TS2-26-3	68-4-81-16-003	080928189	1	2026-4-19
Cable	OUQIAO	RG142	68-4-90-19-005-A20	----	----	----
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 (9kHz-30MHz) (SAC-3 #1)

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	2026-4-25
Loop Antenna	Rohde & Schwarz	HFH2-Z2	68-4-80-14-006	100398	1	2026-7-17
Cable	HUBER-SUHNER	RG214	68-4-90-14-001-A21	----	----	----
3m Semi-anechoic chamber	TDK	SAC-3 #1	68-4-90-14-001	----	3	2026-10-25
Test software	Rohde & Schwarz	EMC32	68-4-90-14-001-A10	Version10.35.02	N/A	N/A

Radiated Emission Test (30MHz-1GHz) (SAC-3 #1)

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	2026-4-25
Trilog Super Broadband Test Antenna	Schwarzbeck	VULB 9163	68-4-80-14-002	707	1	2026-6-10
Attenuator	Mini-circuits	UNAT-6+	68-4-81-21-001	15542	1	2026-4-19
Cable	HUBER-SUHNER	RG214	68-4-90-14-001-A20	----	----	----
3m Semi-anechoic chamber	TDK	SAC-3 #1	68-4-90-14-001	----	3	2026-10-25
Test software	Rohde & Schwarz	EMC32	68-4-90-14-001-A10	Version10.35.02	N/A	N/A

Radiated Emission Test (1GHz-40G) (SAC-3 #2)

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	2026-4-25
Wave Guide Antenna	ETS	3117	68-4-80-19-001	00218954	1	2026-3-10
Sideband Horn Antenna	Q-PAR	QWH-SL-18-40-K-SG	68-4-80-14-008	12827	1	2026-6-19
Pre-amplifier	Rohde & Schwarz	SCU 18F	68-4-29-19-001	100745	1	2026-4-19
Pre-amplifier	Rohde & Schwarz	SCU 18F	68-4-29-19-003	100747	1	2026-4-19
Pre-amplifier	Rohde & Schwarz	SCU 40A	68-4-29-14-002	100432	1	2026-7-16
Cable	OUQIAO	18DLB5-NMNM-7000	68-4-90-19-006-A22	----	----	----
Cable	JUNFLON	MWX241	68-4-90-19-006-A21	----	----	----
3m Semi-anechoic chamber	TDK	SAC-3 #2	68-4-90-19-006	----	3	2026-10-25
Test software	Rohde & Schwarz	EMC32	68-4-90-19-006-A01	Version10.35.02	N/A	N/A

RF Test System

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	2026-4-18
RF Meas. and Switch Matrix Unit	TST PASS	TSCB3023R2	68-4-93-23-001	2811685c	1	2026-4-18
Cable	JUNFLON	J12J103539	68-4-90-19-003-A20	----	----	----
Cable	JUNFLON	J12J103539	68-4-90-19-003-A21	----	----	----
Cable	JUNFLON	J12J103539	68-4-90-19-003-A22	----	----	----
Test software	TST PASS	TST PASS	68-4-93-23-001-A03	Version 2.0	N/A	N/A
Test software	Tonscend	JS1120-3	68-4-74-14-006-A13	Version 2.6.77.0518	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 3m chamber (68-4-90-14-001) 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

Measurement Uncertainty Decision Rule

Determination of conformity with the specification limits is based on the decision rule according to IEC Guide 115: 2023, clause 4.3.3 and 4.3.4

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