

11. RESTRICTED BANDS OF OPERATION

11.1.LIMITS

Section 15.247(d) In addition, Radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

Frequency(MHz)	Frequency(MHz)	Frequency(MHz)	Frequency(GHz)
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2655 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	
13.36 - 13.41			

Frequency (MHz)	Quasi-peak(μV/m)	Measurement distance(m)	Quasi-peak(dBμV/m)@distance 3m
0.009-0.490	2400/F(kHz)	300	128.5~93.8
0.490-1.705	24000/F(kHz)	30	73.8~63
1.705-30.0	30	30	69.5
30~88	100	3	40
88~216	150	3	43.5
216~960	200	3	46
Above 960	500	3	54

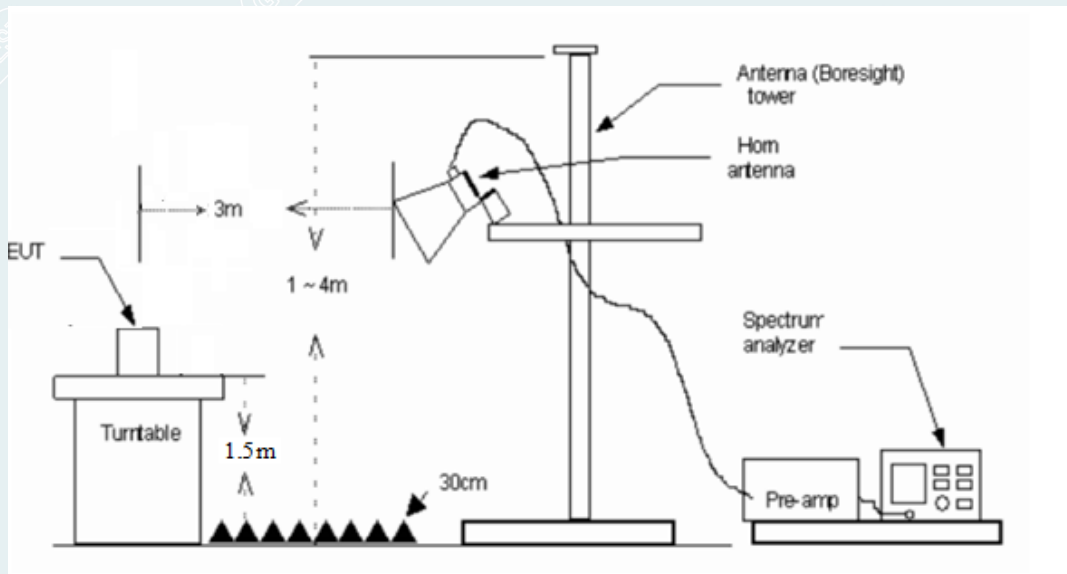
11.2. TEST PROCEDURES

Test procedures follow KDB 558074 D01 DTS Measurement Guidance.

- 1) The EUT is placed on a turntable, which is 1.5m above the ground plane.
- 2) The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
- 3) EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.
- 4) Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:
 - a) PEAK: RBW=1MHz / VBW=1MHz / Sweep=AUTO.
 - b) AVERAGE: RBW=1MHz / VBW=1/T / Sweep=AUTO.

If the EUT is configured to transmit with duty cycle $\geq 98\%$, set $VBW \leq RBW/100$ (i.e., 10kHz) but not less than 10 Hz. If the EUT duty cycle is $< 98\%$, set $VBW \geq 1/T$, Where T is defined in section 2.8.
- 5) Repeat the procedures until all the PEAK and AVERAGE versus polarization are measured.

11.3. TEST SETUP



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11.4.TEST RESULTS

802.11b mode(antenna 1)

Lowest Channel

Frequency 2412MHz

Environment: 20.2°C/60%RH

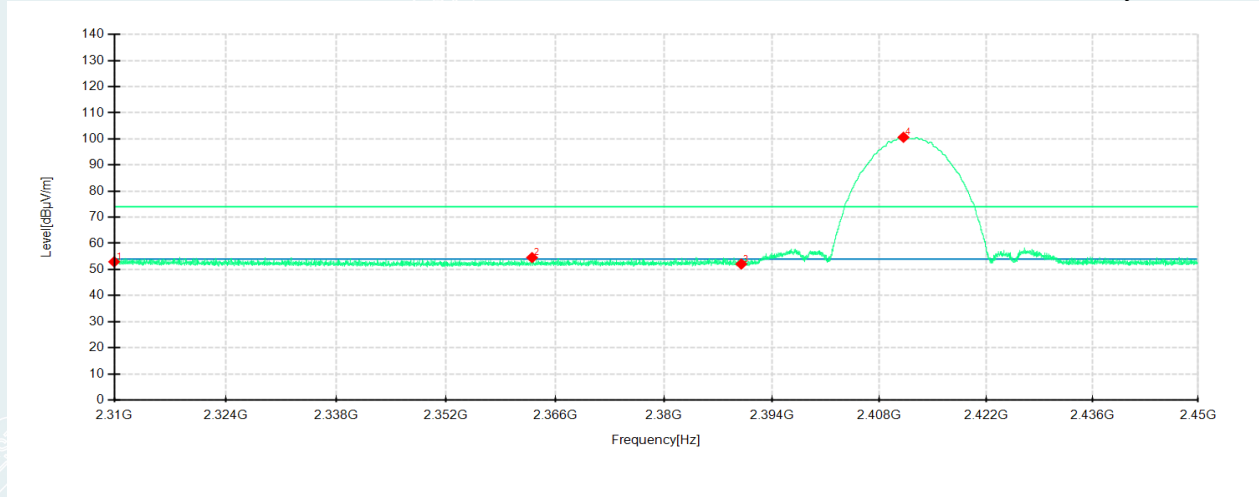
Tested By: Chen Xiacong

Detector mode: Peak

Voltage: AC 120V/60Hz

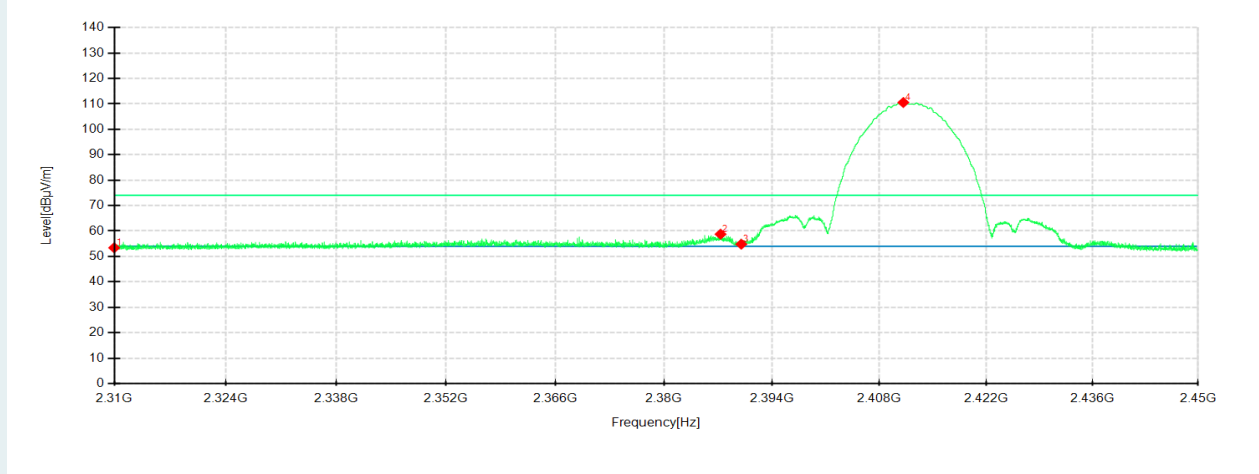
Date: 2023-04-24

Polarity: Horizontal



Detector mode: Peak

Polarity: Vertical



No	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBuV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	2310	43.58	52.93	9.35	74.00	21.07	200	163	Horizontal	/
2	2363.0075	45.88	54.53	8.65	74.00	19.47	200	54	Horizontal	/
3	2390	43.13	52.06	8.93	74.00	21.94	200	153	Horizontal	/
4	2411.1325	91.55	100.63	9.08	74.00	-26.63	200	211	Horizontal	No limit
1	2310	43.47	53.40	9.93	74.00	20.60	100	161	Vertical	/
2	2387.315	48.67	58.75	10.08	74.00	15.25	200	266	Vertical	/
3	2390	44.75	54.82	10.07	74.00	19.18	200	296	Vertical	/
4	2411.115	100.71	110.54	9.83	74.00	-36.54	200	296	Vertical	No limit

802.11b mode(antenna 1)

Lowest Channel

Frequency 2412MHz

Environment: 20.2°C/60%RH

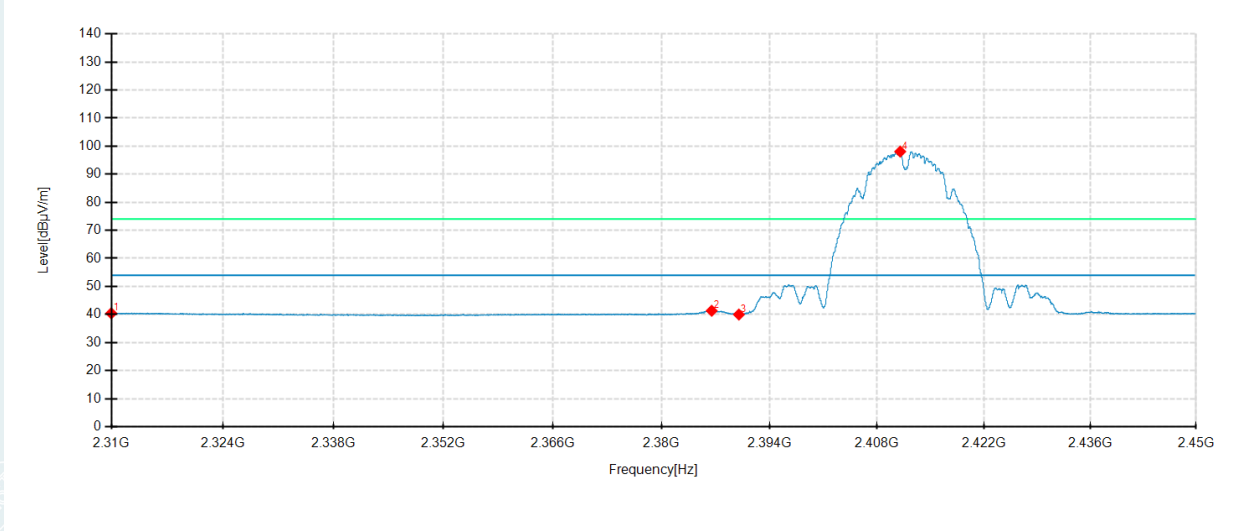
Tested By: Chen Xiacong

Detector mode: Average

Voltage: AC 120V/60Hz

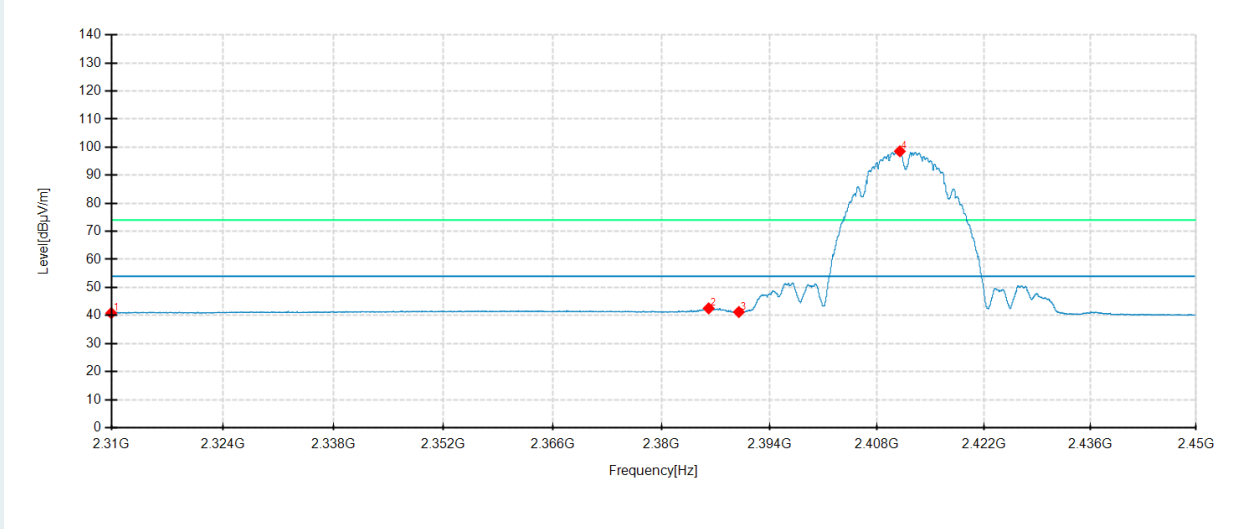
Date: 2023-04-24

Polarity: Horizontal



Detector mode: Average

Polarity: Vertical



No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBμV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	2310	31.06	40.41	9.35	54.00	13.59	200	15	Horizontal	/
2	2386.475	32.42	41.32	8.90	54.00	12.68	200	210	Horizontal	/
3	2390	31.05	39.98	8.93	54.00	14.02	200	326	Horizontal	/
4	2411.01	88.99	98.07	9.08	54.00	-44.07	200	210	Horizontal	No limit
1	2310	30.91	40.84	9.93	54.00	13.16	200	150	Vertical	/
2	2386.09	32.45	42.53	10.08	54.00	11.47	200	200	Vertical	/
3	2390	31.17	41.24	10.07	54.00	12.76	100	34	Vertical	/
4	2410.9575	88.70	98.54	9.84	54.00	-44.54	200	200	Vertical	No limit

802.11b mode(antenna 1)

Highest Channel

Frequency 2462MHz

Environment: 20.2°C/60%RH

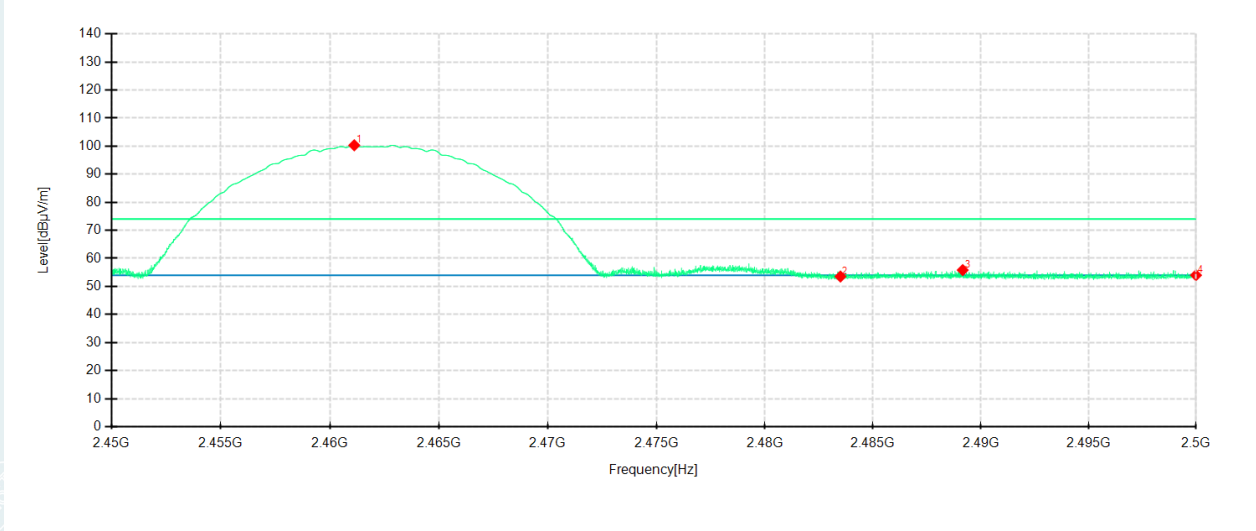
Tested By: Chen Xiacong

Detector mode: Peak

Voltage: AC 120V/60Hz

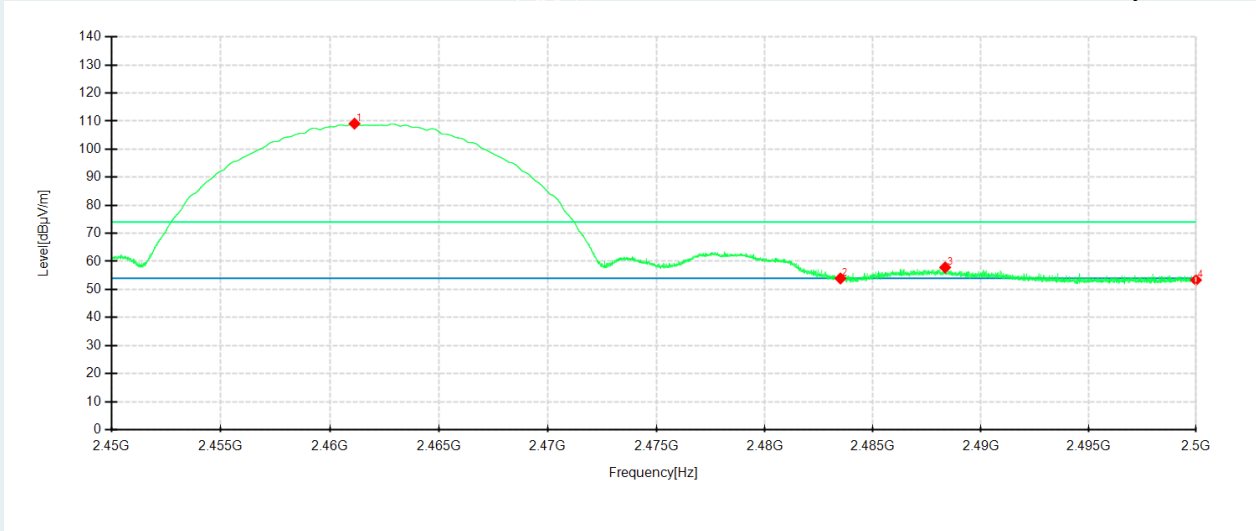
Date: 2023-04-24

Polarity: Horizontal



Detector mode: Peak

Polarity: Vertical



No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBμV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	2461.1125	90.85	100.32	9.47	74.00	-26.32	200	210	Horizontal	No limit
2	2483.5	43.62	53.54	9.92	74.00	20.46	100	198	Horizontal	/
3	2489.1625	45.81	55.84	10.03	74.00	18.16	200	44	Horizontal	/
4	2500	43.75	54.00	10.25	74.00	20.00	200	14	Horizontal	/
1	2461.125	99.91	109.10	9.19	74.00	-35.10	200	296	Vertical	No limit
2	2483.5	44.62	53.90	9.28	74.00	20.10	100	319	Vertical	/
3	2488.35	48.54	57.84	9.30	74.00	16.16	200	266	Vertical	/
4	2500	43.97	53.32	9.35	74.00	20.68	100	282	Vertical	/

**802.11b mode(antenna 1)
Highest Channel**

Frequency 2462MHz

Environment: 20.2°C/60%RH

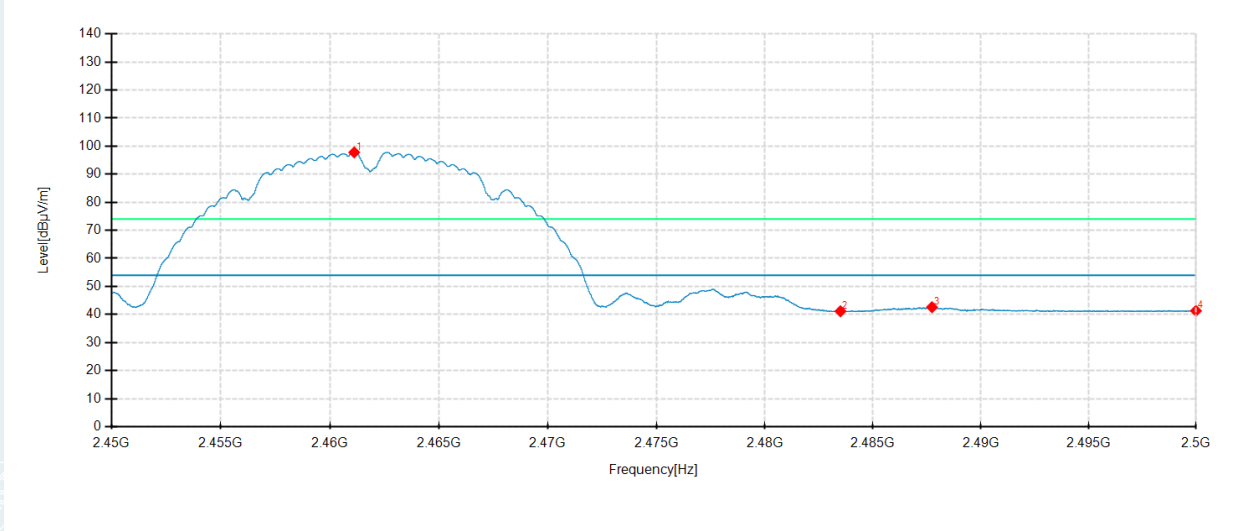
Tested By: Chen Xiacong

Detector mode: Average

Voltage: AC 120V/60Hz

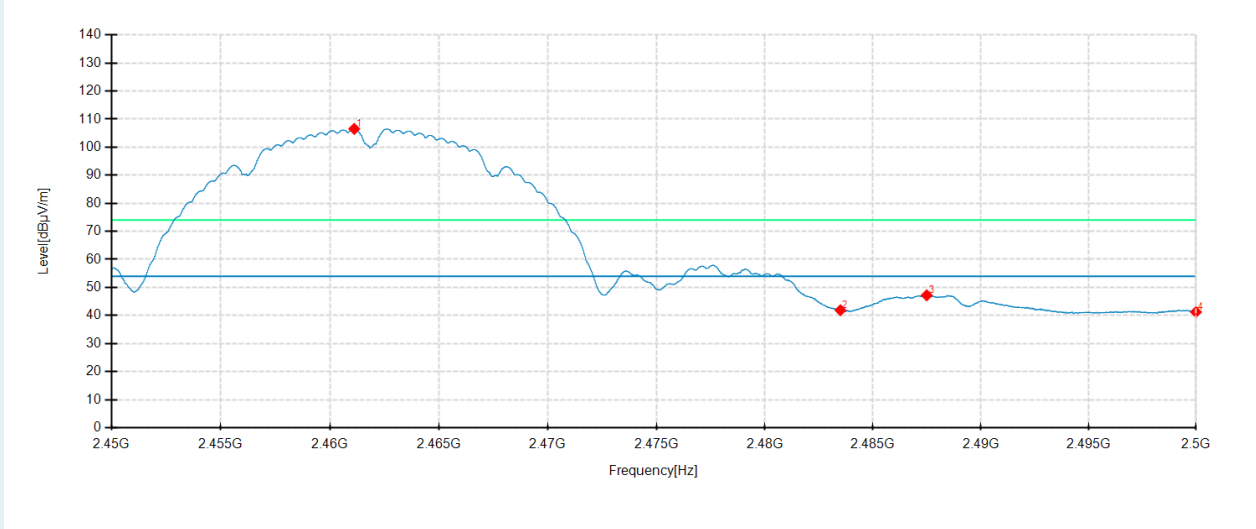
Date: 2023-04-24

Polarity: Horizontal



Detector mode: Average

Polarity: Vertical



No.	Frequency MHz	Reading dBµV/m	Level dBµV/m	Factor dB	Limit dBµV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	2461.1125	88.31	97.78	9.47	54.00	-43.78	200	208	Horizontal	No limit
2	2483.5	31.22	41.14	9.92	54.00	12.86	200	257	Horizontal	/
3	2487.7375	32.60	42.60	10.00	54.00	11.40	200	208	Horizontal	/
4	2500	31.05	41.30	10.25	54.00	12.70	200	84	Horizontal	/
1	2461.1125	97.33	106.52	9.19	54.00	-52.52	200	295	Vertical	No limit
2	2483.5	32.60	41.88	9.28	54.00	12.12	200	295	Vertical	/
3	2487.4938	37.89	47.19	9.30	54.00	6.81	200	305	Vertical	/
4	2500	31.88	41.23	9.35	54.00	12.77	200	336	Vertical	/

802.11b mode(antenna 2)

Lowest Channel

Frequency 2412MHz

Environment: 20.2°C/60%RH

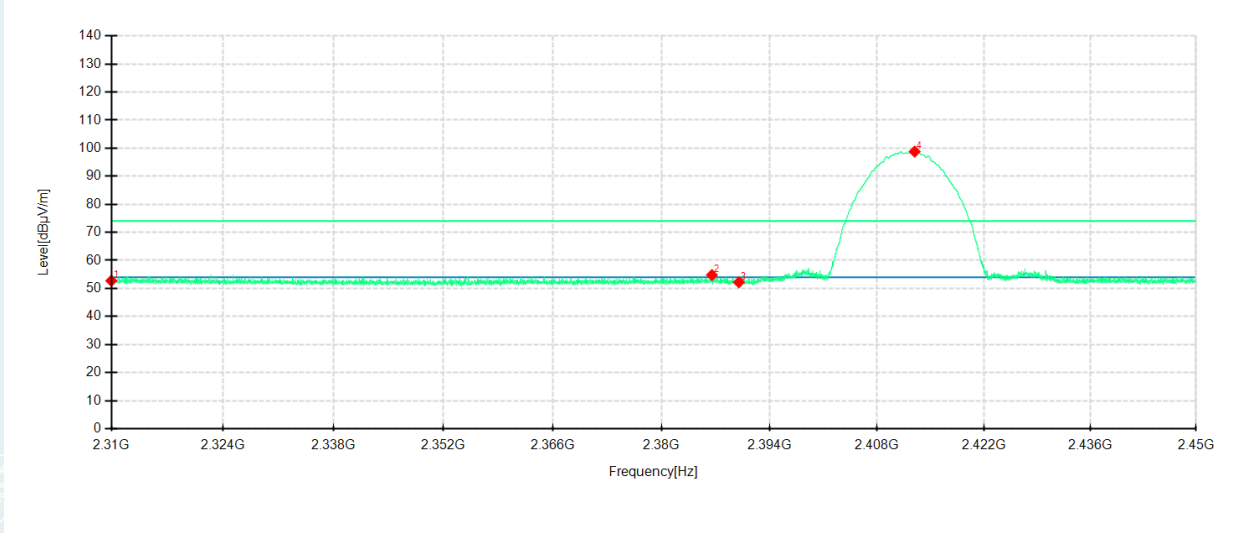
Tested By: Chen Xiacong

Detector mode: Peak

Voltage: AC 120V/60Hz

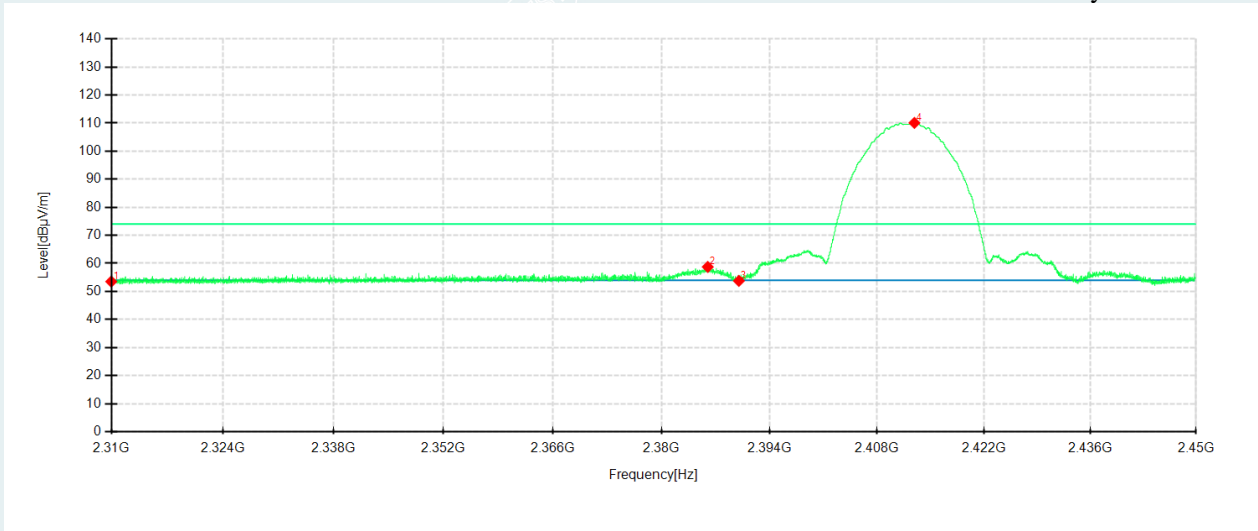
Date: 2023-04-24

Polarity: Horizontal



Detector mode: Peak

Polarity: Vertical



No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBuV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	2310	43.38	52.73	9.35	74.00	21.27	100	315	Horizontal	/
2	2386.51	45.87	54.77	8.90	74.00	19.23	200	93	Horizontal	/
3	2390	43.26	52.19	8.93	74.00	21.81	200	44	Horizontal	/
4	2412.9	89.71	98.79	9.08	74.00	-24.79	100	42	Horizontal	No limit
1	2310	43.58	53.51	9.93	74.00	20.49	100	131	Vertical	/
2	2385.9675	48.66	58.74	10.08	74.00	15.26	200	227	Vertical	/
3	2390	43.69	53.76	10.07	74.00	20.24	100	278	Vertical	/
4	2412.865	100.29	110.09	9.80	74.00	-36.09	100	231	Vertical	No limit

802.11b mode(antenna 2)

Lowest Channel

Frequency 2412MHz

Environment: 20.2°C/60%RH

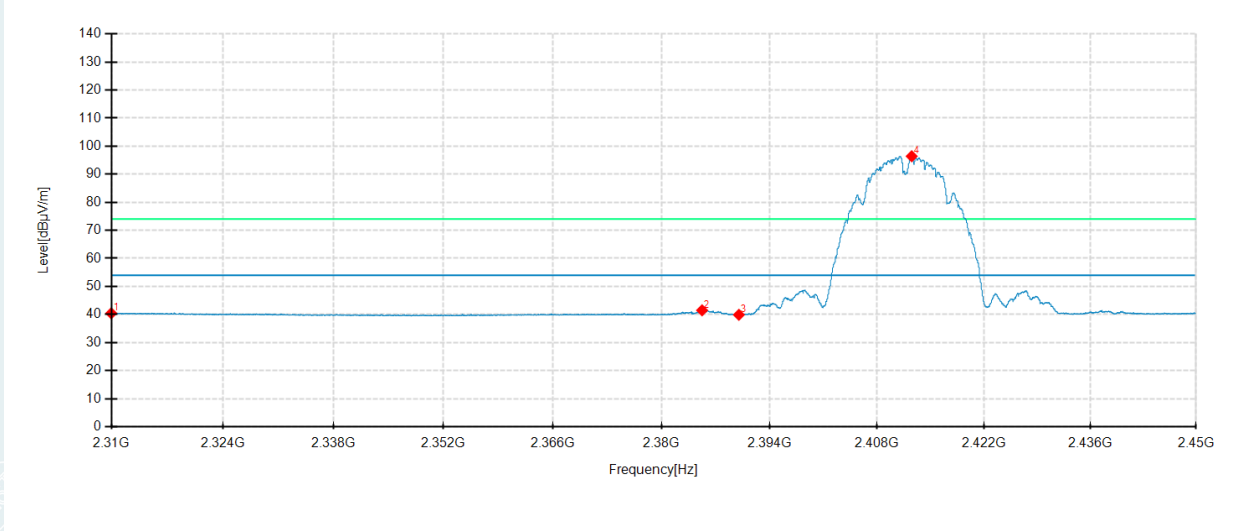
Tested By: Chen Xiacong

Detector mode: Average

Voltage: AC 120V/60Hz

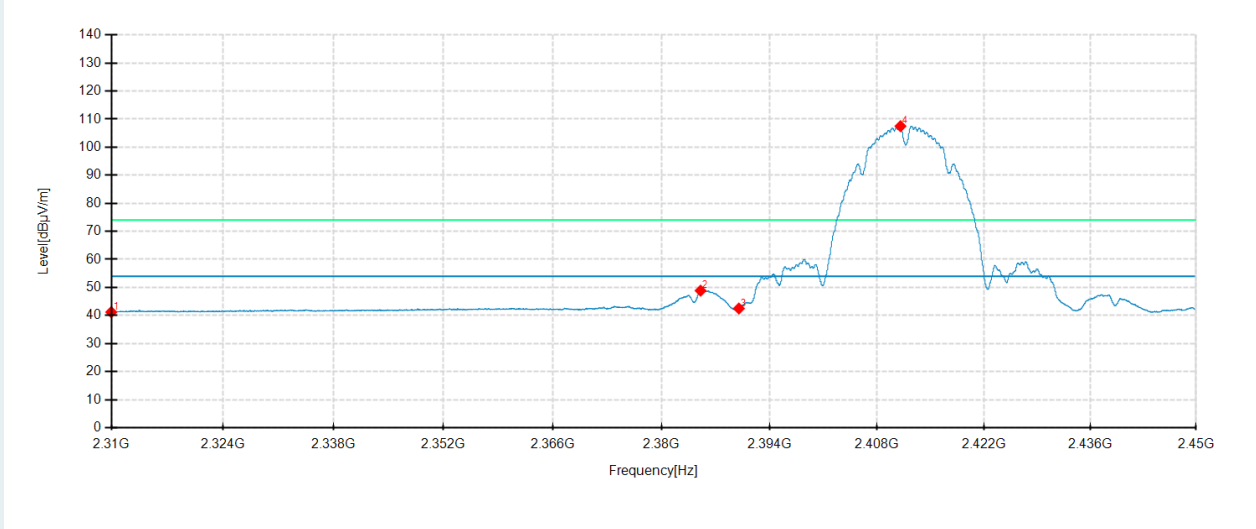
Date: 2023-04-24

Polarity: Horizontal



Detector mode: Average

Polarity: Vertical



No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBμV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	2310	31.08	40.43	9.35	54.00	13.57	100	317	Horizontal	/
2	2385.2325	32.61	41.49	8.88	54.00	12.51	100	52	Horizontal	/
3	2390	30.96	39.89	8.93	54.00	14.11	100	344	Horizontal	/
4	2412.515	87.33	96.41	9.08	54.00	-42.41	100	42	Horizontal	No limit
1	2310	31.28	41.21	9.93	54.00	12.79	100	192	Vertical	/
2	2385.04	38.75	48.84	10.09	54.00	5.16	200	207	Vertical	/
3	2390	32.42	42.49	10.07	54.00	11.51	200	197	Vertical	/
4	2411.045	97.65	107.49	9.84	54.00	-53.49	100	229	Vertical	No limit

802.11b mode(antenna 2)

Highest Channel

Frequency 2462MHz

Environment: 20.2°C/60%RH

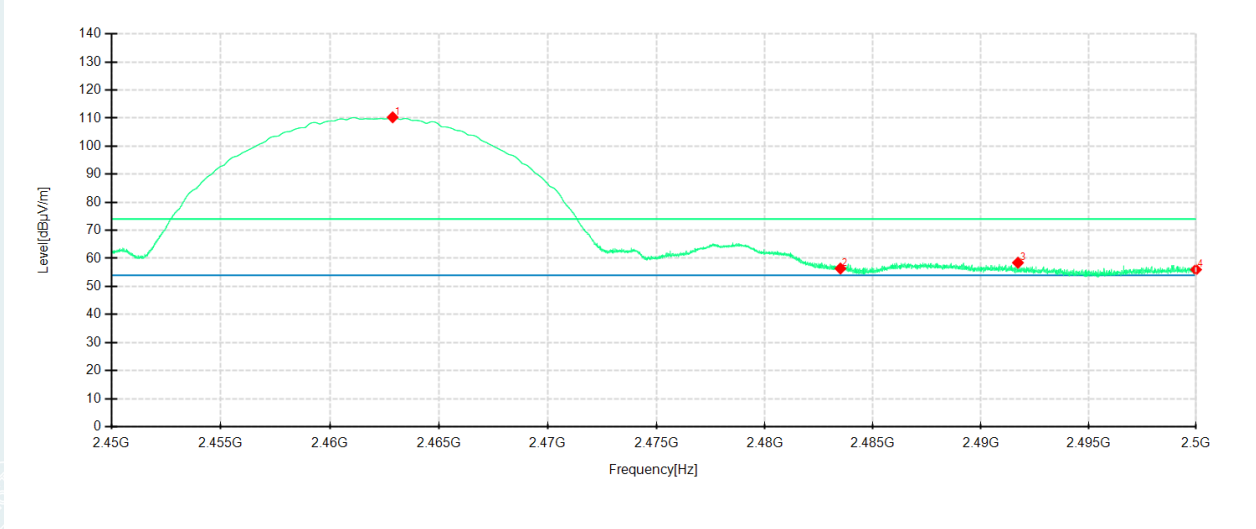
Tested By: Chen Xiacong

Detector mode: Peak

Voltage: AC 120V/60Hz

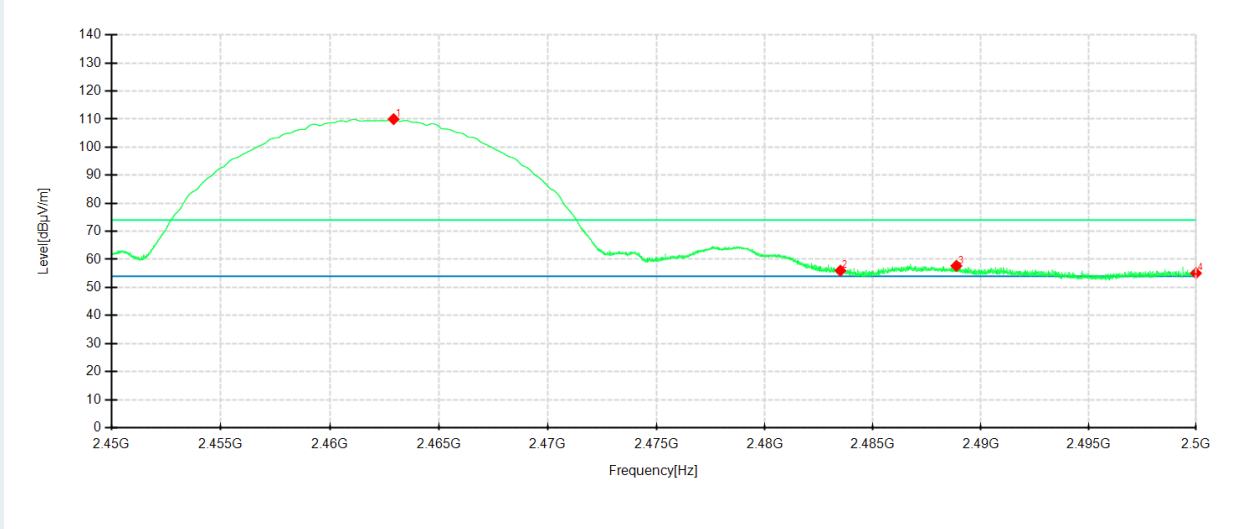
Date: 2023-04-24

Polarity: Horizontal



Detector mode: Peak

Polarity: Vertical



No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBμV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	2462.875	100.79	110.29	9.50	74.00	-36.29	200	223	Horizontal	No limit
2	2483.5	46.45	56.37	9.92	74.00	17.63	100	227	Horizontal	/
3	2491.725	48.37	58.46	10.09	74.00	15.54	100	277	Horizontal	/
4	2500	45.73	55.98	10.25	74.00	18.02	200	262	Horizontal	/
1	2462.9188	100.80	109.99	9.19	74.00	-35.99	200	219	Vertical	No limit
2	2483.5	46.70	55.98	9.28	74.00	18.02	100	191	Vertical	/
3	2488.8688	48.39	57.69	9.30	74.00	16.31	100	220	Vertical	/
4	2500	45.72	55.07	9.35	74.00	18.93	100	181	Vertical	/

802.11b mode(antenna 2)

Highest Channel

Frequency 2462MHz

Environment: 20.2°C/60%RH

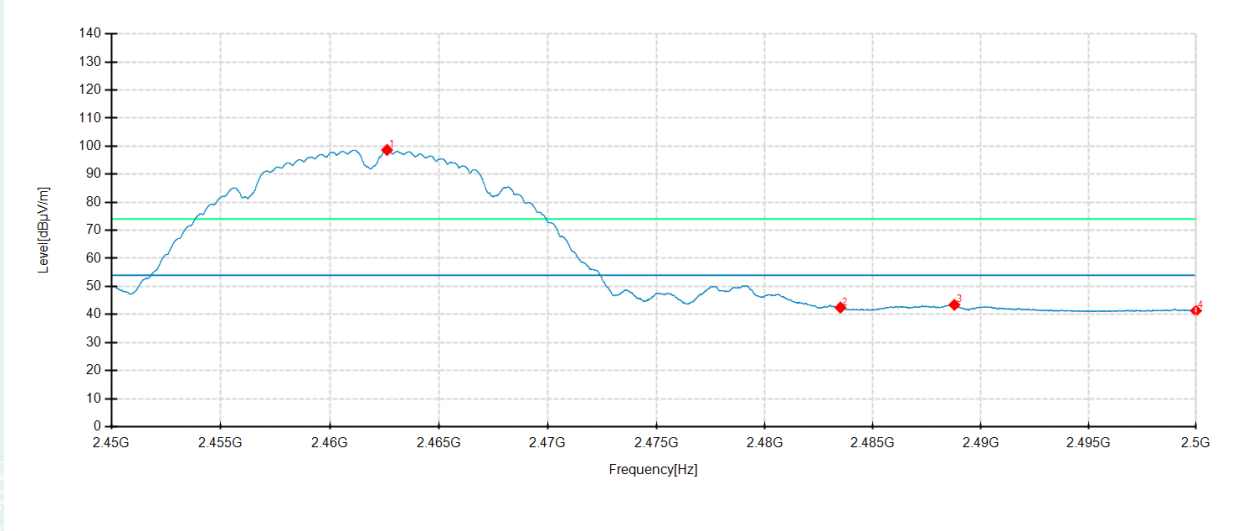
Tested By: Chen Xiacong

Detector mode: Average

Voltage: AC 120V/60Hz

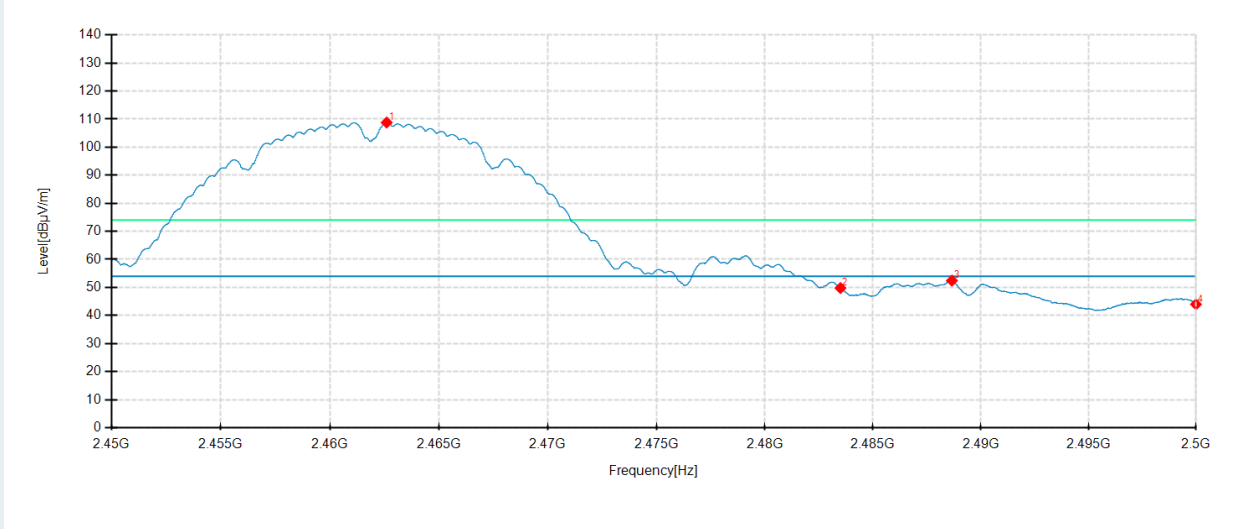
Date: 2023-04-24

Polarity: Horizontal



Detector mode: Average

Polarity: Vertical



No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBμV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	2462.6188	89.16	98.65	9.49	54.00	-44.65	100	43	Horizontal	No limit
2	2483.5	32.53	42.45	9.92	54.00	11.55	100	43	Horizontal	/
3	2488.775	33.42	43.44	10.02	54.00	10.56	100	43	Horizontal	/
4	2500	31.07	41.32	10.25	54.00	12.68	100	33	Horizontal	/
1	2462.6	99.60	108.79	9.19	54.00	-54.79	200	218	Vertical	No limit
2	2483.5	40.50	49.78	9.28	54.00	4.22	100	202	Vertical	/
3	2488.6625	43.14	52.44	9.30	54.00	1.56	100	211	Vertical	/
4	2500	34.61	43.96	9.35	54.00	10.04	100	220	Vertical	/

802.11g mode(antenna 1)

Lowest Channel

Frequency 2412MHz

Environment: 22.4°C/58%RH

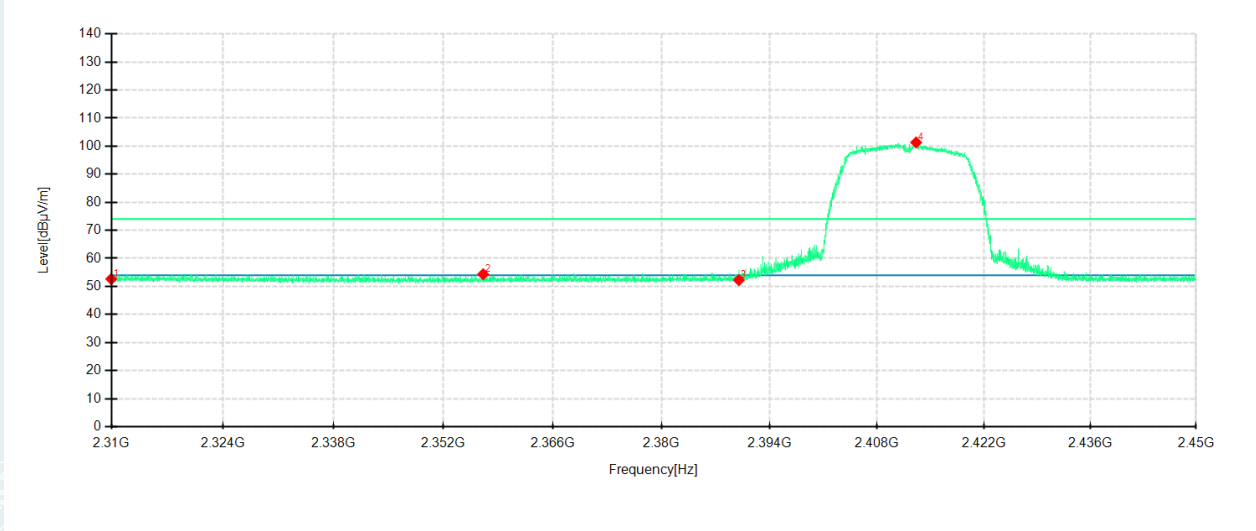
Tested By: Chen Xiacong

Detector mode: Peak

Voltage: AC 120V/60Hz

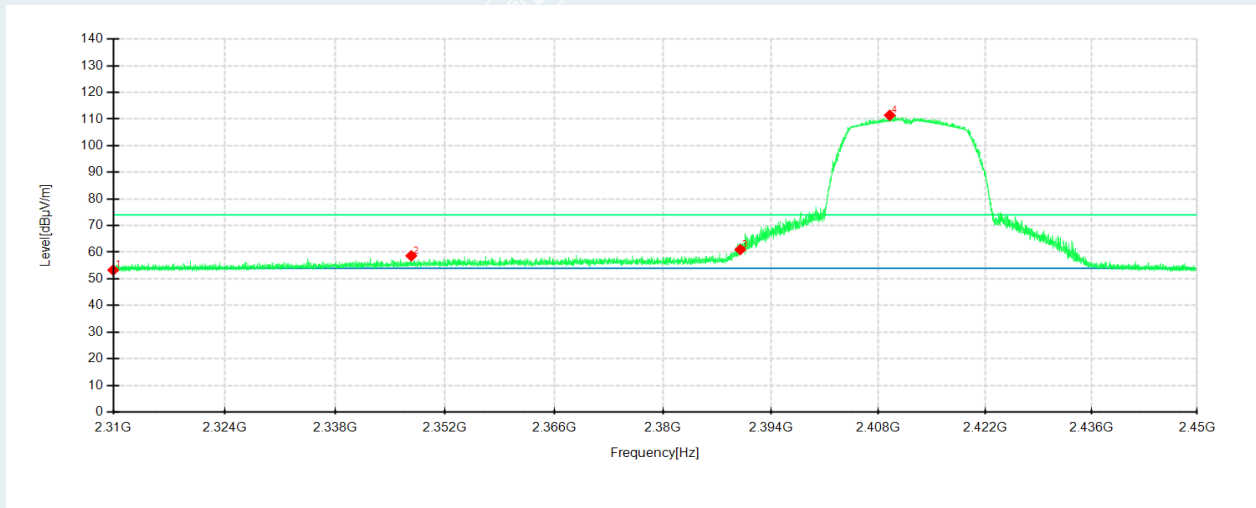
Date: 2023-04-26

Polarity: Horizontal



Detector mode: Peak

Polarity: Vertical



No.	Frequency MHz	Reading dBµV/m	Level dBµV/m	Factor dB	Limit dBµV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	2310	43.29	52.64	9.35	74.00	21.36	200	123	Horizontal	/
2	2357.075	45.76	54.35	8.59	74.00	19.65	200	221	Horizontal	/
3	2390	43.32	52.25	8.93	74.00	21.75	100	94	Horizontal	/
4	2413.0925	92.26	101.34	9.08	74.00	-27.34	100	204	Horizontal	No limit
1	2310	43.36	53.29	9.93	74.00	20.71	100	16	Vertical	/
2	2347.695	48.43	58.64	10.21	74.00	15.36	200	288	Vertical	/
3	2390	50.91	60.98	10.07	74.00	13.02	200	278	Vertical	/
4	2409.47	101.55	111.41	9.86	74.00	-37.41	200	260	Vertical	No limit

802.11g mode(antenna 1)

Lowest Channel

Frequency 2412MHz

Environment: 22.4°C/58%RH

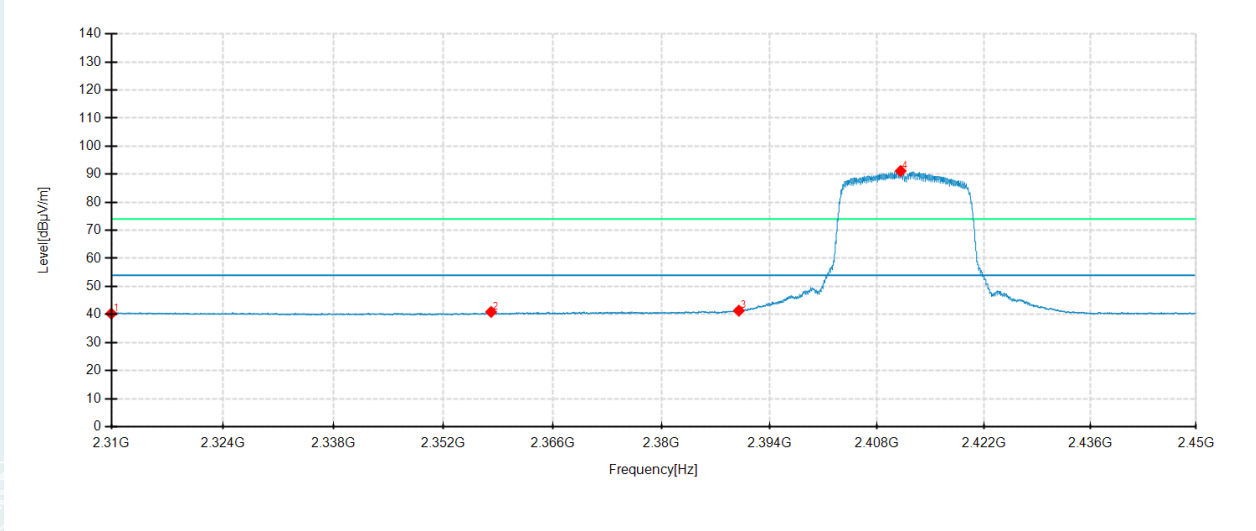
Tested By: Chen Xiacong

Detector mode: Average

Voltage: AC 120V/60Hz

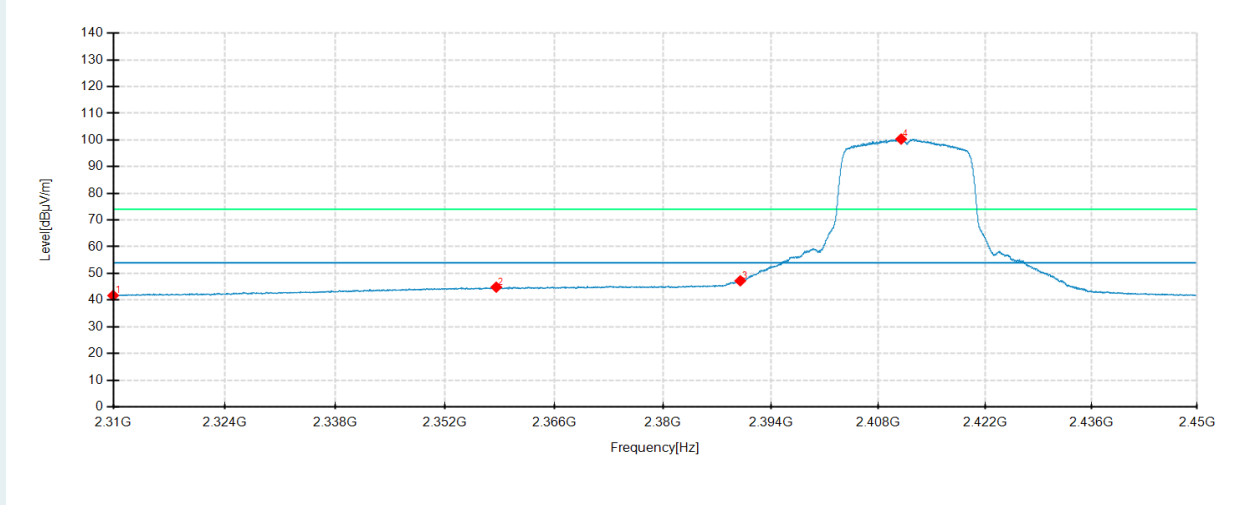
Date: 2023-04-26

Polarity: Horizontal



Detector mode: Average

Polarity: Vertical



No.	Frequency MHz	Reading dBµV/m	Level dBµV/m	Factor dB	Limit dBµV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	2310	30.95	40.30	9.35	54.00	13.70	200	15	Horizontal	/
2	2358.09	32.31	40.91	8.60	54.00	13.09	100	215	Horizontal	/
3	2390	32.42	41.35	8.93	54.00	12.65	100	204	Horizontal	/
4	2411.0625	82.07	91.15	9.08	54.00	-37.15	100	204	Horizontal	No limit
1	2310	31.77	41.70	9.93	54.00	12.30	200	302	Vertical	/
2	2358.545	34.65	44.83	10.18	54.00	9.17	200	291	Vertical	/
3	2390	37.15	47.22	10.07	54.00	6.78	200	291	Vertical	/
4	2410.9575	90.50	100.34	9.84	54.00	-46.34	200	269	Vertical	No limit

802.11g mode(antenna 1)

Highest Channel

Frequency 2462MHz

Environment: 20.2°C/60%RH

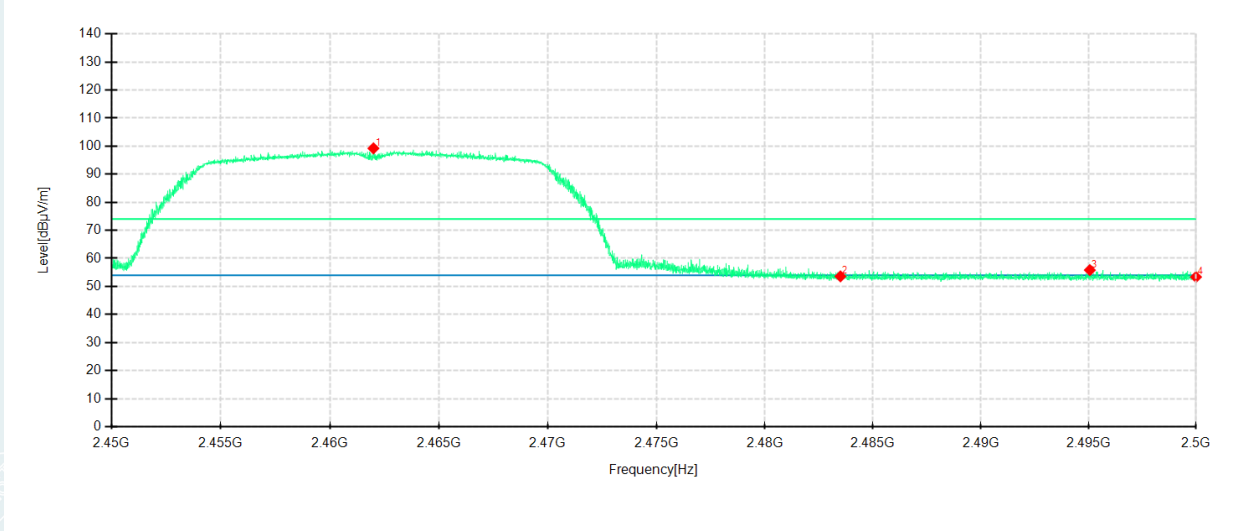
Tested By: Chen Xiacong

Detector mode: Peak

Voltage: AC 120V/60Hz

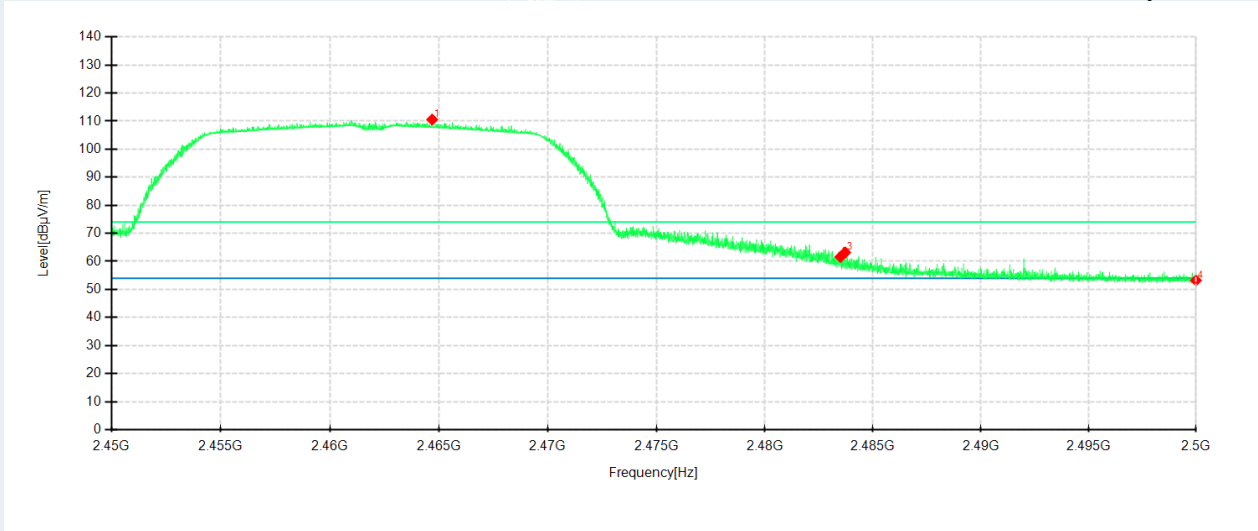
Date: 2023-04-24

Polarity: Horizontal



Detector mode: Peak

Polarity: Vertical



No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBμV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	2461.9938	89.75	99.23	9.48	74.00	-25.23	100	200	Horizontal	No limit
2	2483.5	43.66	53.58	9.92	74.00	20.42	100	180	Horizontal	/
3	2495.0625	45.67	55.82	10.15	74.00	18.18	100	15	Horizontal	/
4	2500	43.11	53.36	10.25	74.00	20.64	100	63	Horizontal	/
1	2464.6875	101.35	110.55	9.20	74.00	-36.55	200	317	Vertical	No limit
2	2483.5	52.34	61.62	9.28	74.00	12.38	200	317	Vertical	/
3	2483.7188	53.91	63.19	9.28	74.00	10.81	200	307	Vertical	/
4	2500	43.85	53.20	9.35	74.00	20.80	200	288	Vertical	/

**802.11g mode(antenna 1)
Highest Channel**

Frequency 2462MHz

Environment: 20.2°C/60%RH

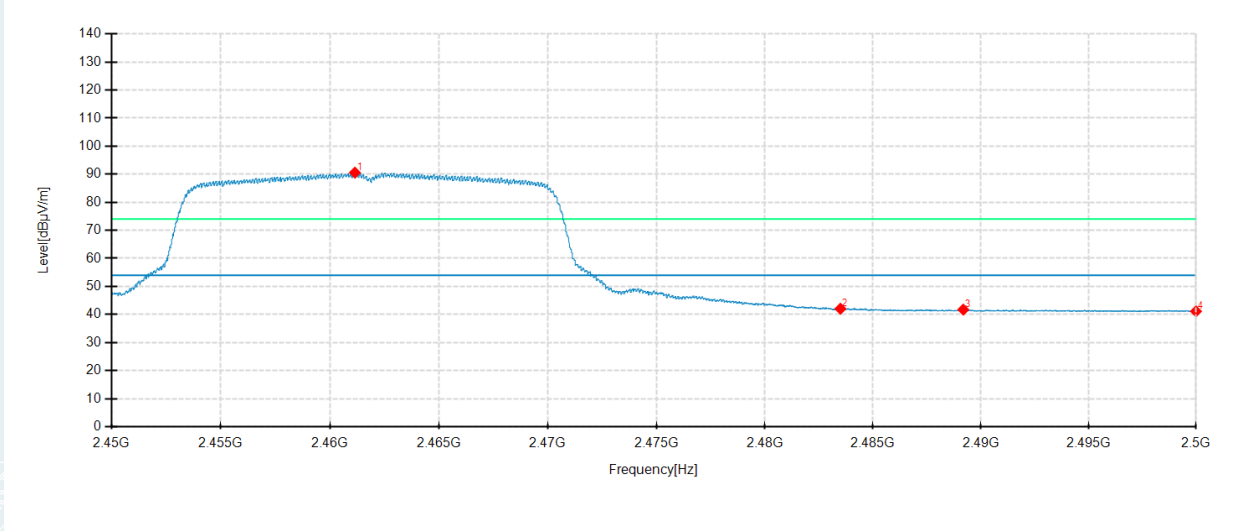
Tested By: Chen Xiacong

Detector mode: Average

Voltage: AC 120V/60Hz

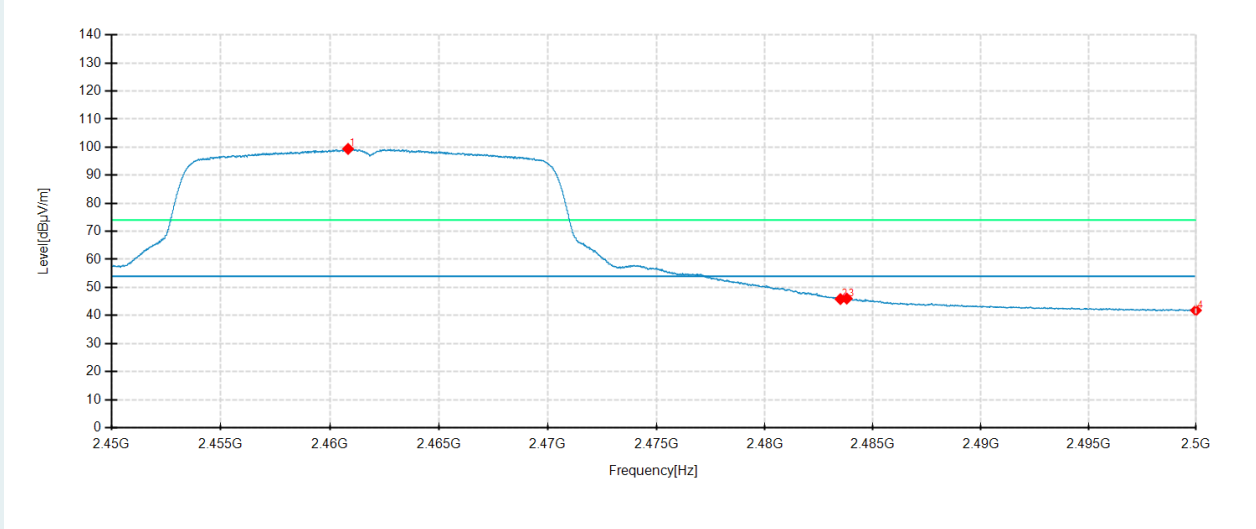
Date: 2023-04-24

Polarity: Horizontal



Detector mode: Average

Polarity: Vertical



No.	Frequency MHz	Reading dBµV/m	Level dBµV/m	Factor dB	Limit dBµV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	2461.1438	81.09	90.56	9.47	54.00	-36.56	200	209	Horizontal	No limit
2	2483.5	32.12	42.04	9.92	54.00	11.96	200	219	Horizontal	/
3	2489.1875	31.71	41.74	10.03	54.00	12.26	200	209	Horizontal	/
4	2500	30.87	41.12	10.25	54.00	12.88	200	190	Horizontal	/
1	2460.8312	90.20	99.39	9.19	54.00	-45.39	200	286	Vertical	No limit
2	2483.5	36.56	45.84	9.28	54.00	8.16	200	295	Vertical	/
3	2483.7938	36.74	46.02	9.28	54.00	7.98	200	295	Vertical	/
4	2500	32.47	41.82	9.35	54.00	12.18	200	286	Vertical	/

802.11g mode(antenna 2)

Lowest Channel

Frequency 2412MHz

Environment: 20.2°C/60%RH

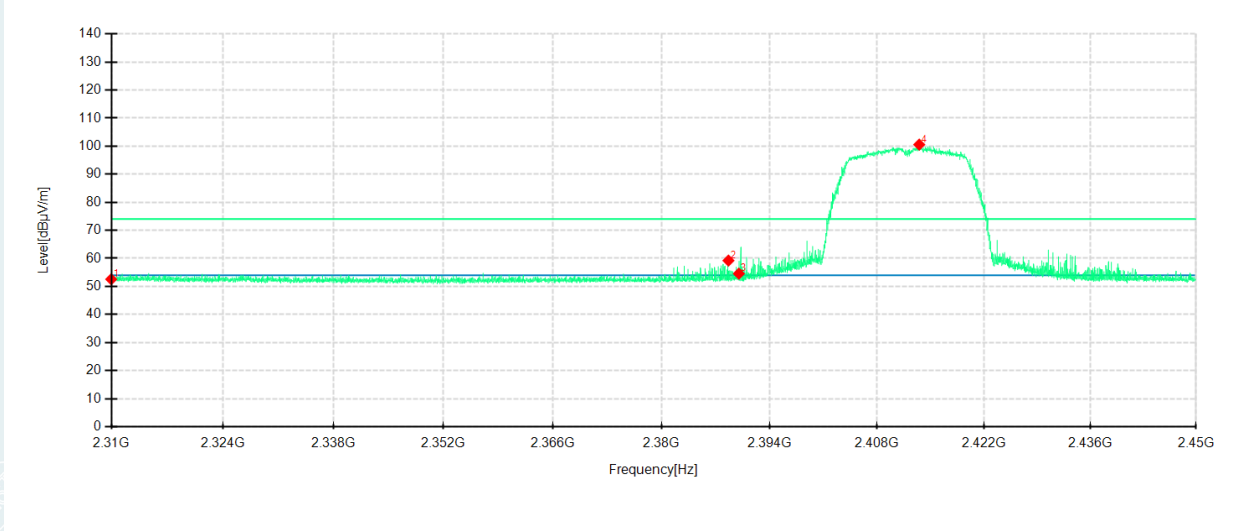
Tested By: Chen Xiacong

Detector mode: Peak

Voltage: AC 120V/60Hz

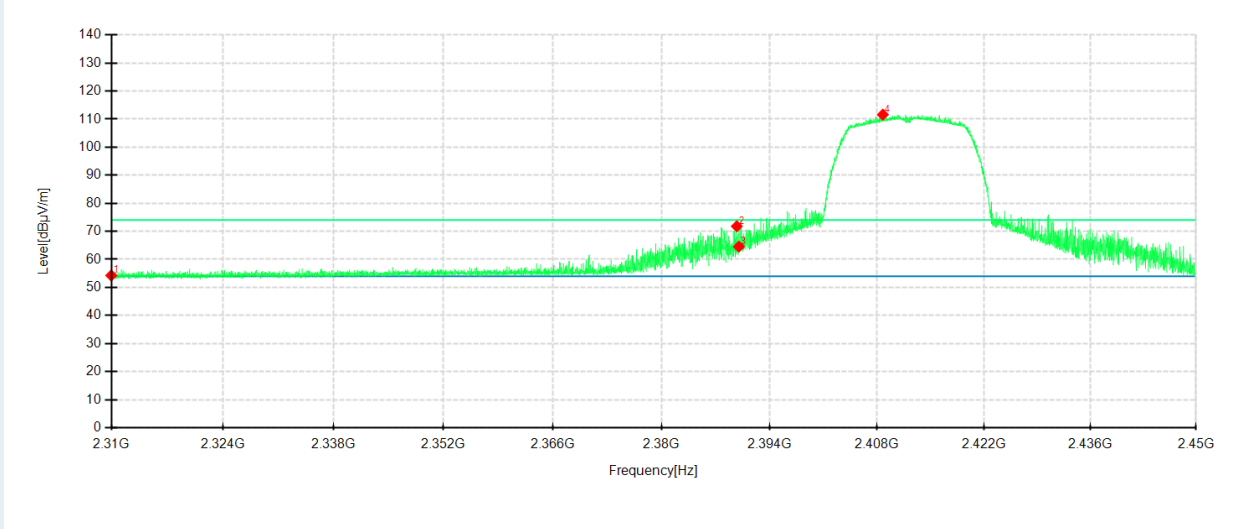
Date: 2023-04-24

Polarity: Horizontal



Detector mode: Peak

Polarity: Vertical



No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBμV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	2310	43.21	52.56	9.35	74.00	21.44	200	122	Horizontal	/
2	2388.645	50.30	59.21	8.91	74.00	14.79	100	50	Horizontal	/
3	2390	45.63	54.56	8.93	74.00	19.44	100	40	Horizontal	/
4	2413.495	91.47	100.56	9.09	74.00	-26.56	100	40	Horizontal	No limit
1	2310	44.34	54.27	9.93	74.00	19.73	100	257	Vertical	/
2	2389.73	61.73	71.80	10.07	74.00	2.20	200	150	Vertical	/
3	2390	54.47	64.54	10.07	74.00	9.46	100	179	Vertical	/
4	2408.735	101.72	111.60	9.88	74.00	-37.60	200	190	Vertical	No limit

802.11g mode(antenna 2)

Lowest Channel

Frequency 2412MHz

Environment: 20.2°C/60%RH

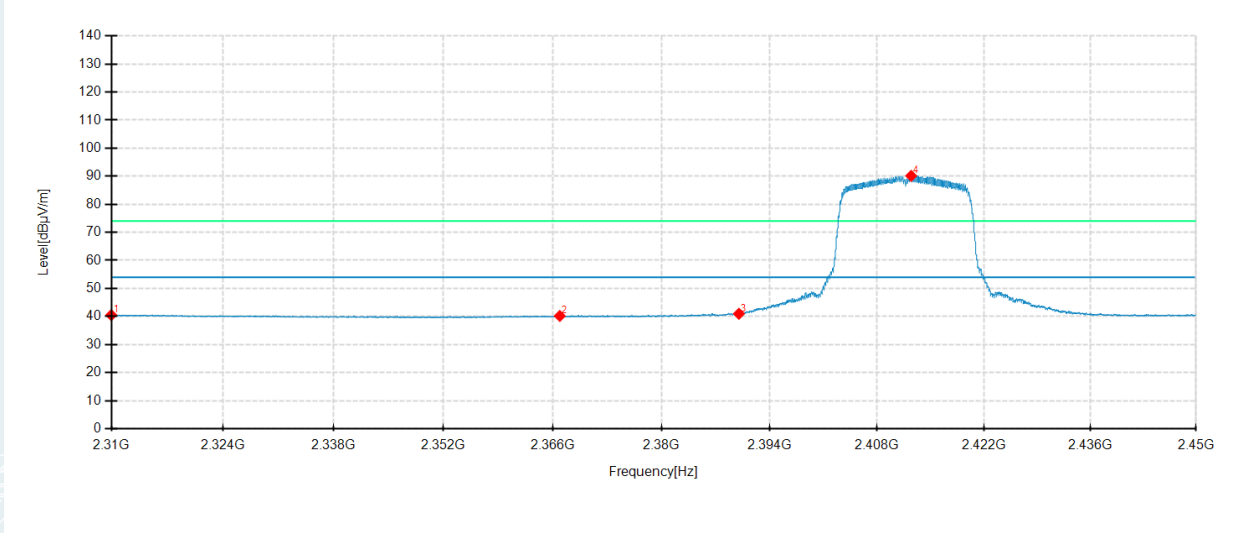
Tested By: Chen Xiacong

Detector mode: Average

Voltage: AC 120V/60Hz

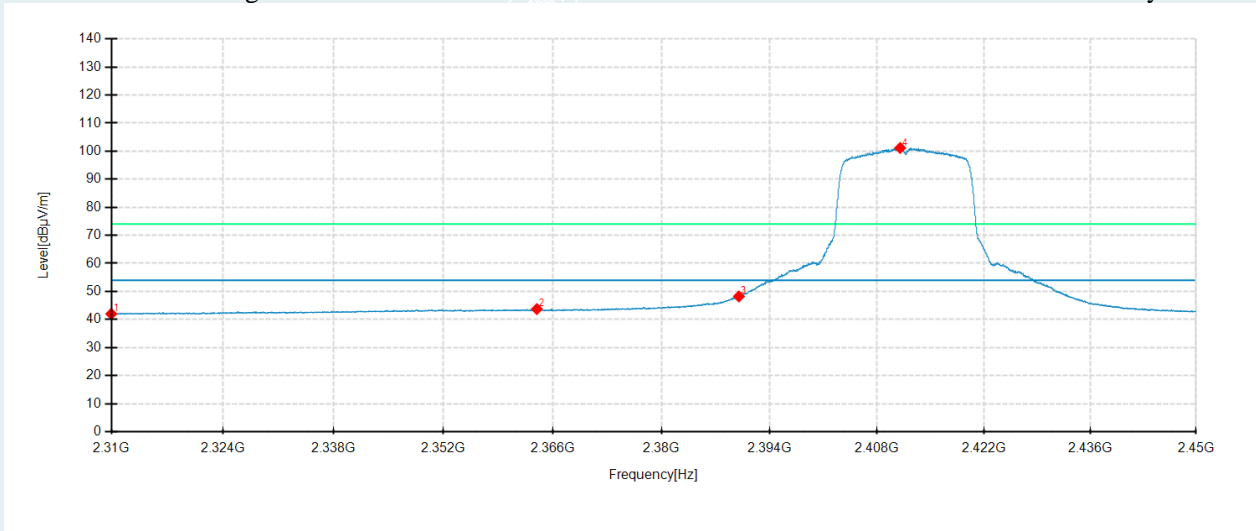
Date: 2023-04-24

Polarity: Horizontal



Detector mode: Average

Polarity: Vertical



No.	Frequency MHz	Reading dBuV/m	Level dBuV/m	Factor dB	Limit dBuV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	2310	31.14	40.49	9.35	54.00	13.51	100	99	Horizontal	/
2	2366.8925	31.49	40.18	8.69	54.00	13.82	100	325	Horizontal	/
3	2390	32.03	40.96	8.93	54.00	13.04	100	50	Horizontal	/
4	2412.445	81.05	90.13	9.08	54.00	-36.13	100	50	Horizontal	No limit
1	2310	32.05	41.98	9.93	54.00	12.02	200	218	Vertical	/
2	2363.9525	33.55	43.72	10.17	54.00	10.28	200	178	Vertical	/
3	2390	38.14	48.21	10.07	54.00	5.79	200	188	Vertical	/
4	2410.9925	91.31	101.15	9.84	54.00	-47.15	100	230	Vertical	No limit

**802.11g mode(antenna 2)
Highest Channel**

Frequency 2462MHz

Environment: 20.2°C/60%RH

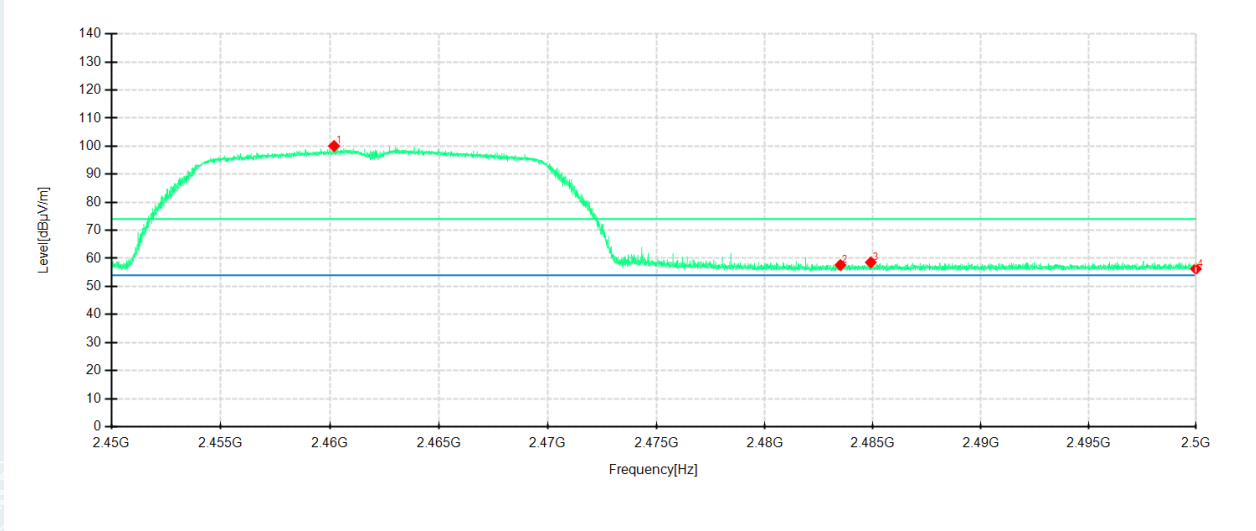
Tested By: Chen Xiacong

Detector mode: Peak

Voltage: AC 120V/60Hz

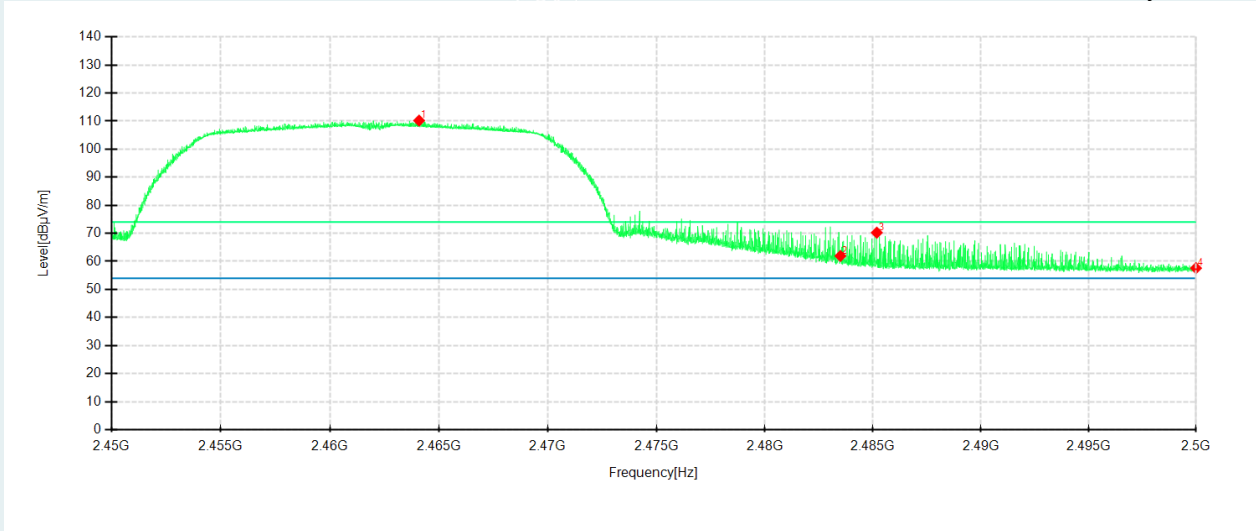
Date: 2023-04-24

Polarity: Horizontal



Detector mode: Peak

Polarity: Vertical



No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBμV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	2460.1875	90.62	100.06	9.44	74.00	-26.06	100	43	Horizontal	No limit
2	2483.5	47.71	57.63	9.92	74.00	16.37	100	327	Horizontal	/
3	2484.9062	48.63	58.58	9.95	74.00	15.42	100	53	Horizontal	/
4	2500	46.01	56.26	10.25	74.00	17.74	100	360	Horizontal	/
1	2464.0875	101.00	110.20	9.20	74.00	-36.20	100	179	Vertical	No limit
2	2483.5	52.66	61.94	9.28	74.00	12.06	200	181	Vertical	/
3	2485.1812	60.95	70.24	9.29	74.00	3.76	200	222	Vertical	/
4	2500	48.24	57.59	9.35	74.00	16.41	100	237	Vertical	/

**802.11g mode(antenna 2)
Highest Channel**

Frequency 2462MHz

Environment: 20.2°C/60%RH

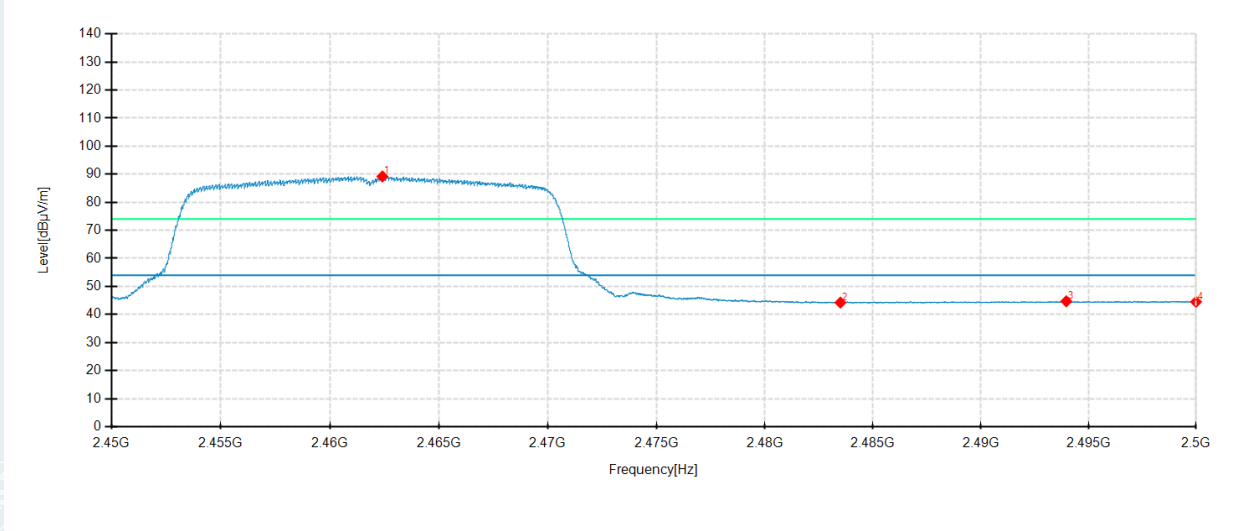
Tested By: Chen Xiacong

Detector mode: Average

Voltage: AC 120V/60Hz

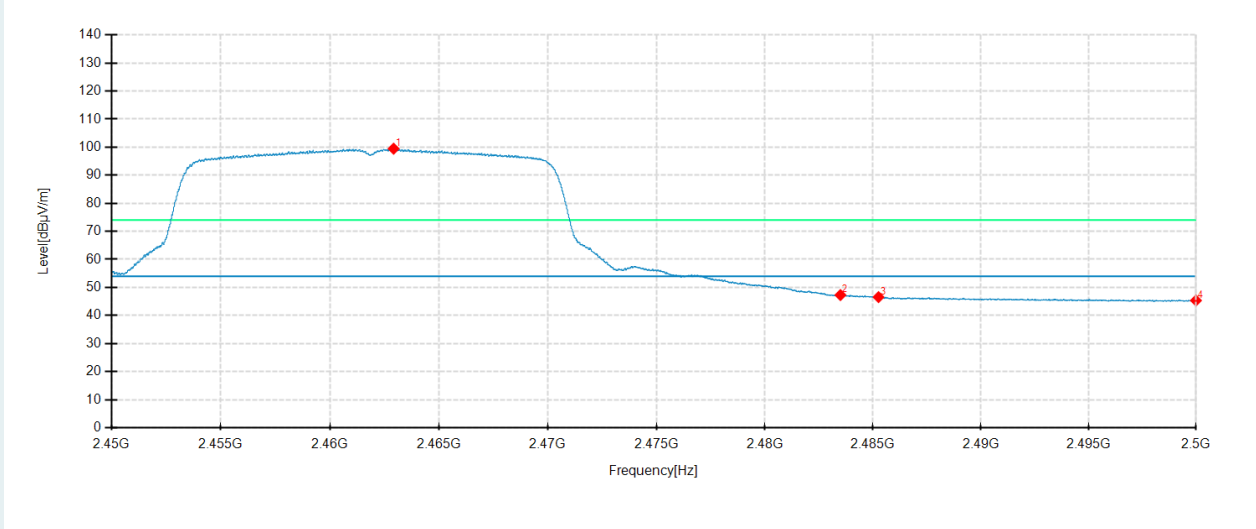
Date: 2023-04-24

Polarity: Horizontal



Detector mode: Average

Polarity: Vertical



No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBμV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	2462.4062	79.72	89.21	9.49	54.00	-35.21	100	44	Horizontal	No limit
2	2483.5	34.31	44.23	9.92	54.00	9.77	100	44	Horizontal	/
3	2493.9688	34.58	44.70	10.12	54.00	9.30	100	44	Horizontal	/
4	2500	34.24	44.49	10.25	54.00	9.51	200	249	Horizontal	/
1	2462.9188	90.28	99.47	9.19	54.00	-45.47	200	222	Vertical	No limit
2	2483.5	38.01	47.29	9.28	54.00	6.71	200	222	Vertical	/
3	2485.2625	37.27	46.56	9.29	54.00	7.44	100	207	Vertical	/
4	2500	35.99	45.34	9.35	54.00	8.66	200	222	Vertical	/

802.11n HT20 mode MIMO

Lowest Channel

Frequency 2412MHz

Environment: 20.2°C/60%RH

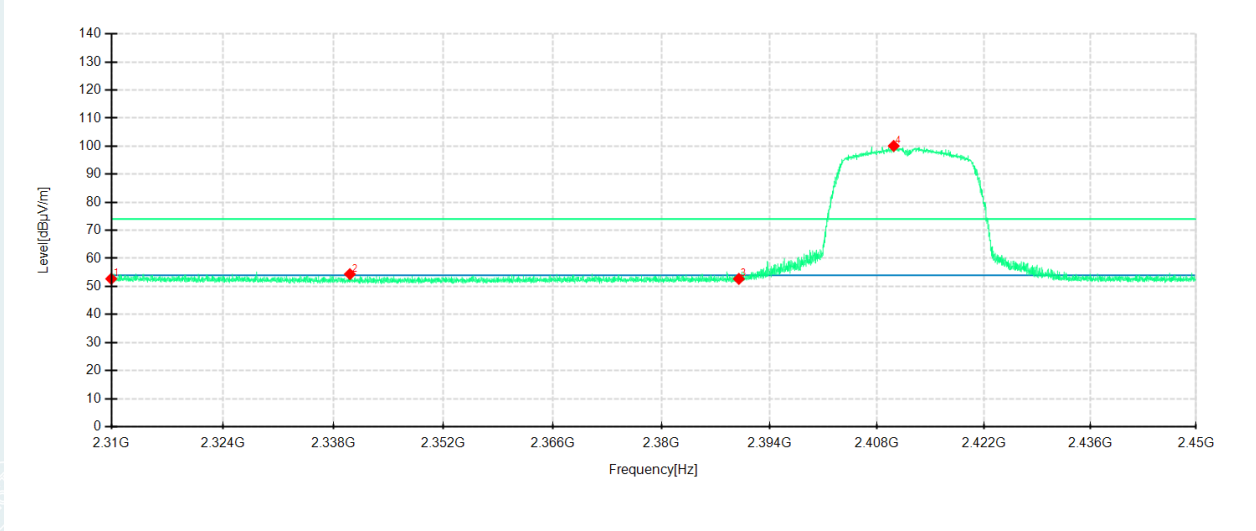
Tested By: Chen Xiacong

Detector mode: Peak

Voltage: AC 120V/60Hz

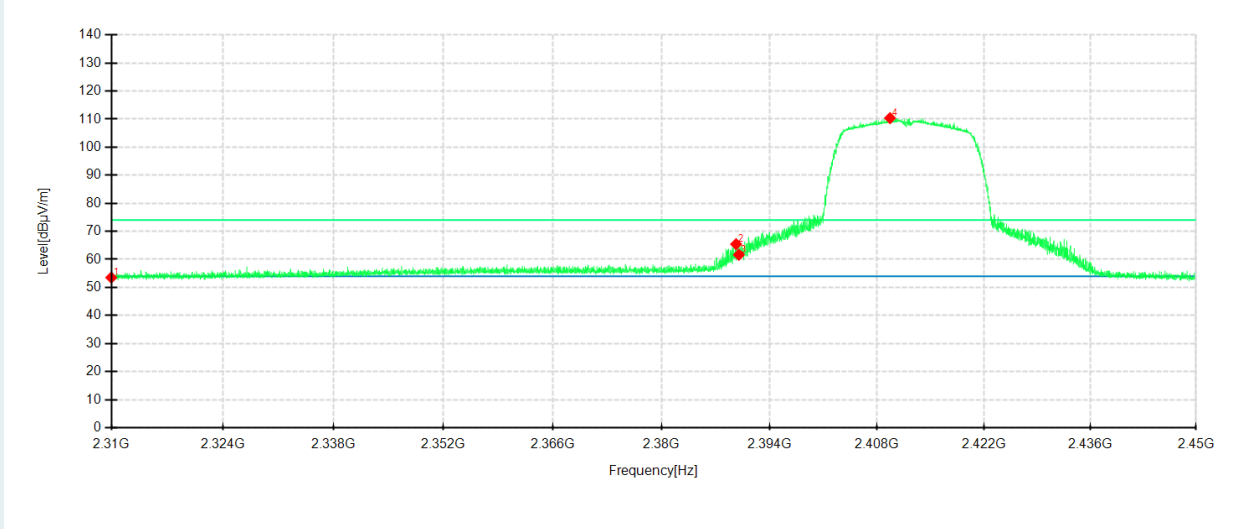
Date: 2023-04-24

Polarity: Horizontal



Detector mode: Peak

Polarity: Vertical



No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBμV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	2310	43.36	52.71	9.35	74.00	21.29	100	328	Horizontal	/
2	2340.1	45.65	54.38	8.73	74.00	19.62	200	219	Horizontal	/
3	2390	43.76	52.69	8.93	74.00	21.31	200	71	Horizontal	/
4	2410.1525	91.01	100.08	9.07	74.00	-26.08	200	208	Horizontal	No limit
1	2310	43.59	53.52	9.93	74.00	20.48	100	248	Vertical	/
2	2389.6425	55.36	65.43	10.07	74.00	8.57	200	297	Vertical	/
3	2390	51.56	61.63	10.07	74.00	12.37	200	238	Vertical	/
4	2409.68	100.52	110.37	9.85	74.00	-36.37	200	277	Vertical	No limit

**802.11n HT20 mode MIMO
Lowest Channel**

Frequency 2412MHz

Environment: 20.2°C/60%RH

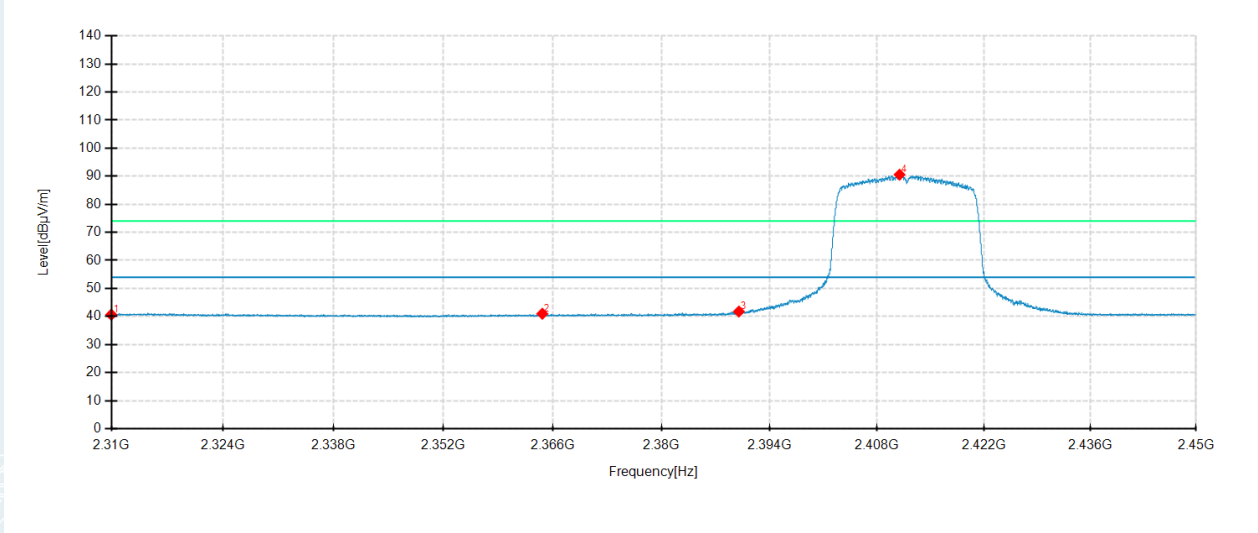
Tested By: Chen Xiacong

Detector mode: Average

Voltage: AC 120V/60Hz

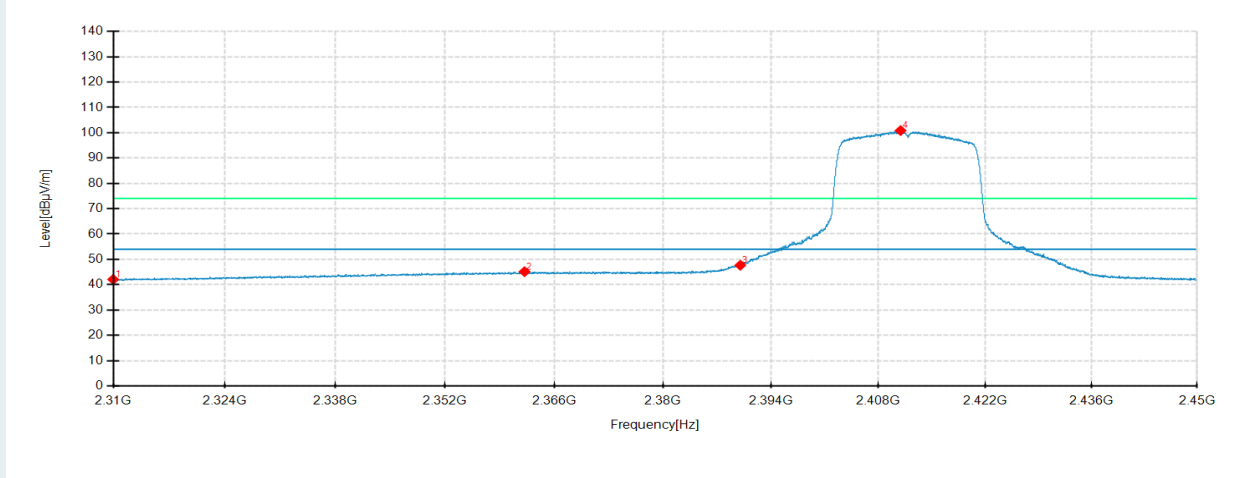
Date: 2023-04-24

Polarity: Horizontal



Detector mode: Average

Polarity: Vertical



No.	Frequency MHz	Reading dBμV/m	Level dBμV/ m	Factor dB	Limit dBuV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	2310	31.30	40.65	9.35	54.00	13.35	100	64	Horizontal	/
2	2364.6525	32.31	40.98	8.67	54.00	13.02	200	209	Horizontal	/
3	2390	32.83	41.76	8.93	54.00	12.24	200	209	Horizontal	/
4	2410.9225	81.47	90.55	9.08	54.00	-36.55	200	209	Horizontal	No limit
1	2310	32.13	42.06	9.93	54.00	11.94	200	230	Vertical	/
2	2362.1675	34.94	45.12	10.18	54.00	8.88	200	319	Vertical	/
3	2390	37.59	47.66	10.07	54.00	6.34	200	298	Vertical	/
4	2410.8875	91.03	100.87	9.84	54.00	-46.87	200	279	Vertical	No limit

802.11n HT20 mode MIMO

Highest Channel

Frequency 2462MHz

Environment: 20.2°C/60%RH

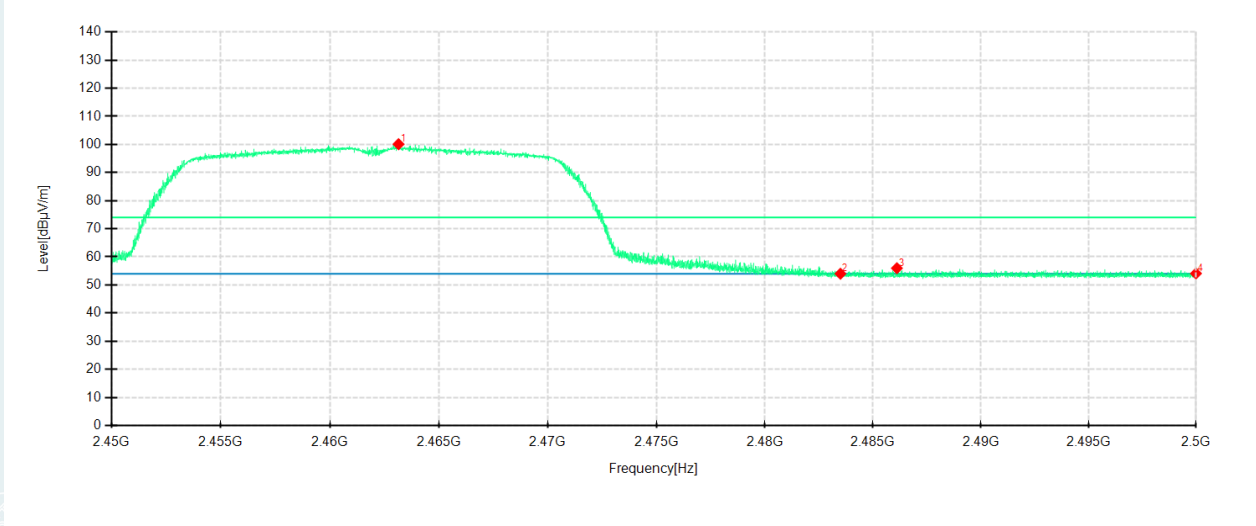
Tested By: Chen Xiacong

Detector mode: Peak

Voltage: AC 120V/60Hz

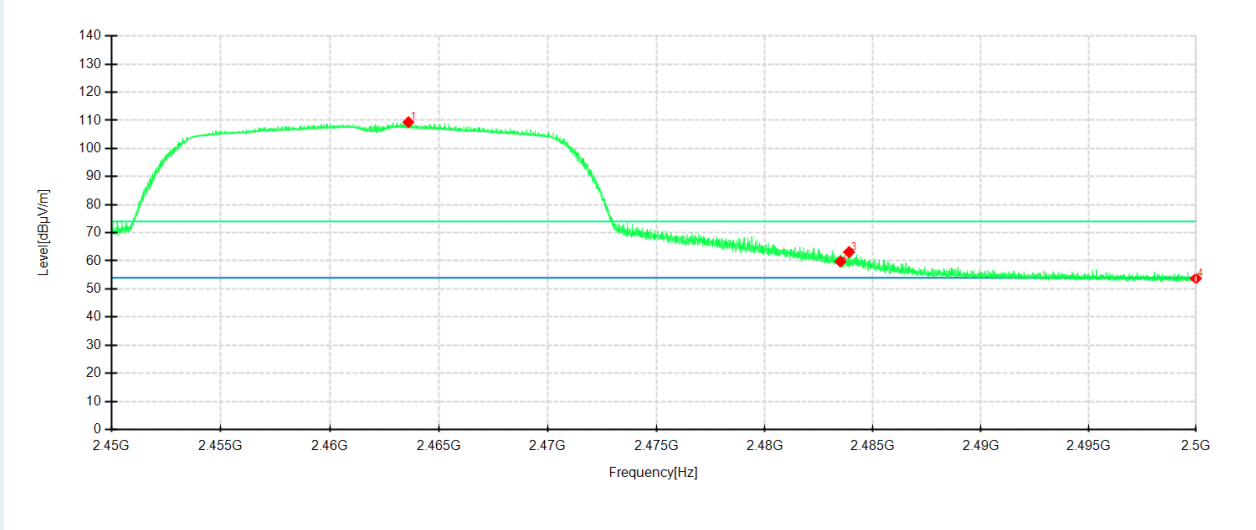
Date: 2023-04-24

Polarity: Horizontal



Detector mode: Peak

Polarity: Vertical



No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBμV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	2463.1438	90.59	100.10	9.51	74.00	-26.10	200	208	Horizontal	No limit
2	2483.5	44.08	54.00	9.92	74.00	20.00	200	258	Horizontal	/
3	2486.1125	45.99	55.96	9.97	74.00	18.04	200	198	Horizontal	/
4	2500	43.84	54.09	10.25	74.00	19.91	200	131	Horizontal	/
1	2463.6	100.15	109.35	9.20	74.00	-35.35	200	307	Vertical	No limit
2	2483.5	50.46	59.74	9.28	74.00	14.26	200	259	Vertical	/
3	2483.9	53.85	63.13	9.28	74.00	10.87	200	307	Vertical	/
4	2500	44.39	53.74	9.35	74.00	20.26	100	276	Vertical	/

802.11n HT20 mode MIMO

Highest Channel

Frequency 2462MHz

Environment: 20.2°C/60%RH

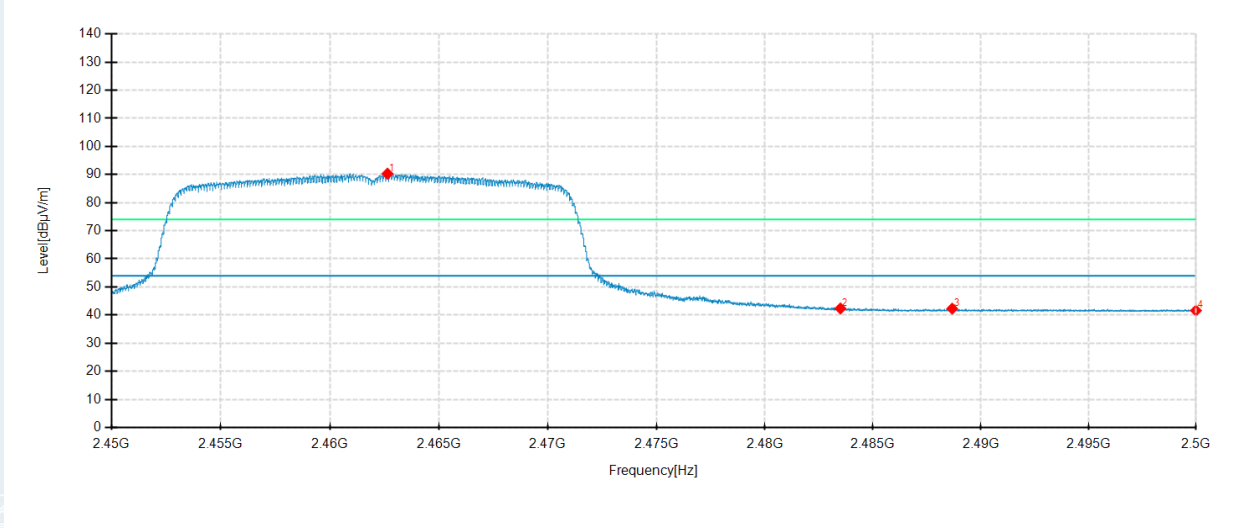
Tested By: Chen Xiacong

Detector mode: Average

Voltage: AC 120V/60Hz

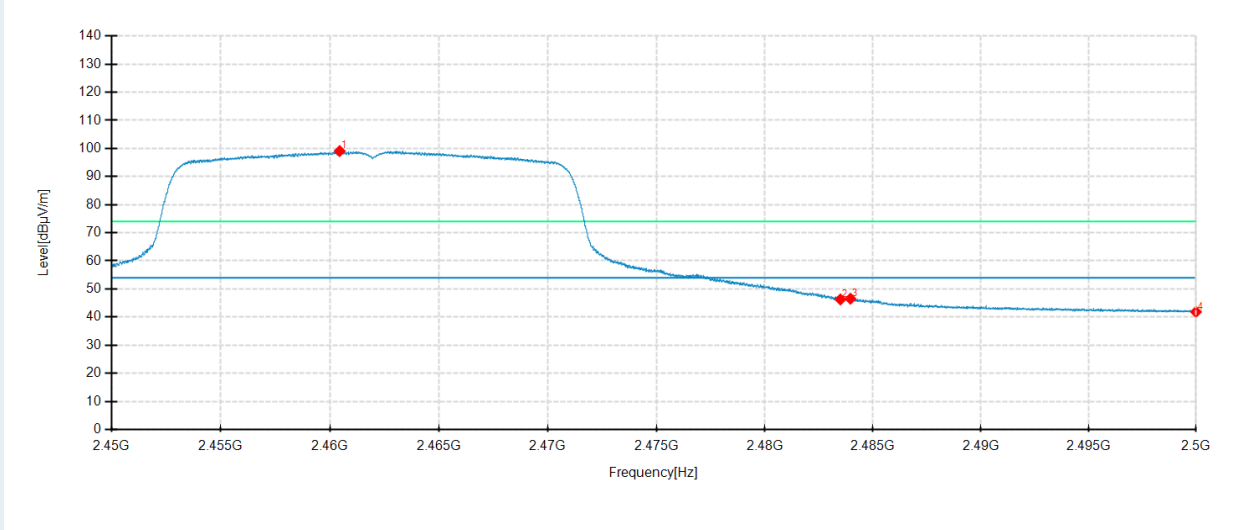
Date: 2023-04-24

Polarity: Horizontal



Detector mode: Average

Polarity: Vertical



No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBμV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	2462.6375	80.83	90.32	9.49	54.00	-36.32	200	217	Horizontal	No limit
2	2483.5	32.43	42.35	9.92	54.00	11.65	200	206	Horizontal	/
3	2488.675	32.26	42.28	10.02	54.00	11.72	200	217	Horizontal	/
4	2500	31.35	41.60	10.25	54.00	12.40	200	2	Horizontal	/
1	2460.4438	89.90	99.08	9.18	54.00	-45.08	200	281	Vertical	No limit
2	2483.5	37.00	46.28	9.28	54.00	7.72	200	300	Vertical	/
3	2483.9625	37.25	46.53	9.28	54.00	7.47	200	290	Vertical	/
4	2500	32.49	41.84	9.35	54.00	12.16	200	321	Vertical	/

802.11n HT40 mode MIMO

Lowest Channel

Frequency 2422MHz

Environment: 20.2°C/60%RH

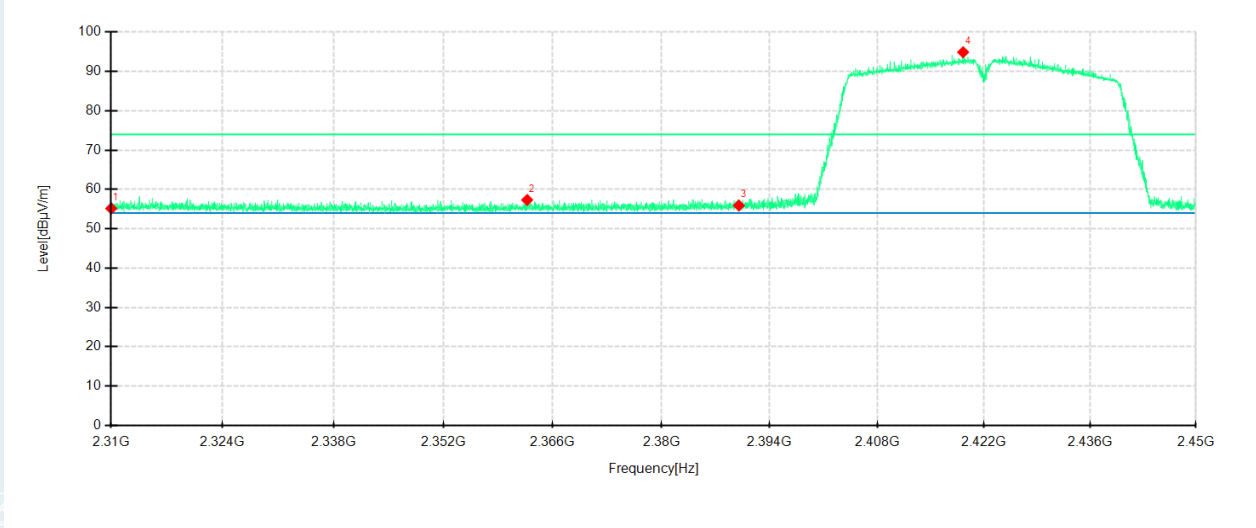
Tested By: Chen Xiacong

Detector mode: Peak

Voltage: AC 120V/60Hz

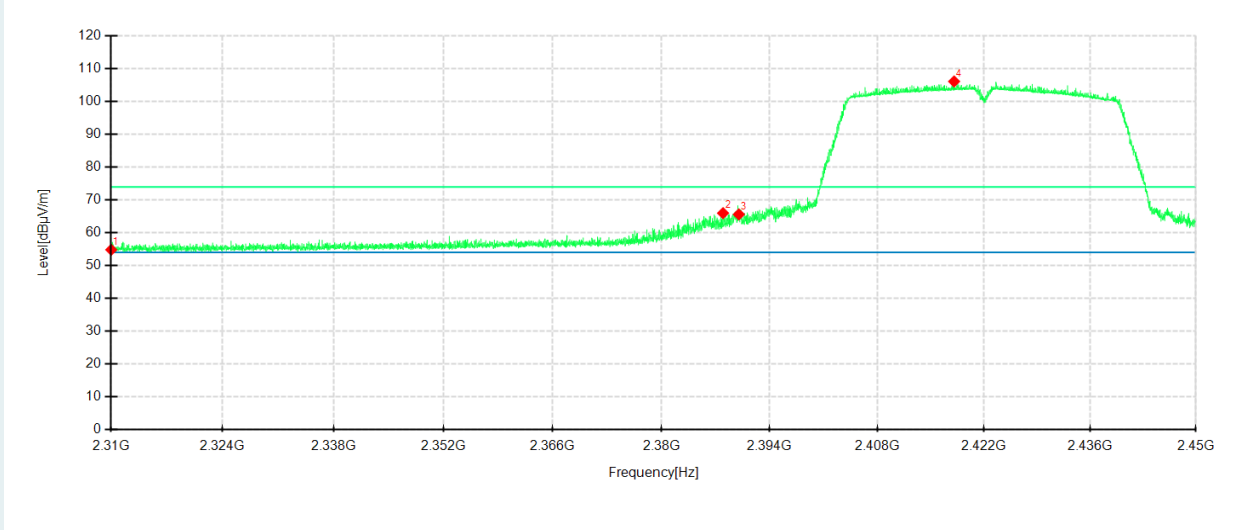
Date: 2023-04-24

Polarity: Horizontal



Detector mode: Peak

Polarity: Vertical



No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBμV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	2310	45.38	55.15	9.77	74.00	18.85	200	169	Horizontal	/
2	2362.71	48.28	57.33	9.05	74.00	16.67	100	66	Horizontal	/
3	2390	46.80	55.91	9.11	74.00	18.09	100	133	Horizontal	/
4	2419.2525	85.82	94.88	9.06	74.00	-20.88	100	123	Horizontal	No limit
1	2310	45.75	54.82	9.07	74.00	19.18	100	237	Vertical	/
2	2387.945	56.48	65.99	9.51	74.00	8.01	200	221	Vertical	/
3	2390	56.08	65.61	9.53	74.00	8.39	200	200	Vertical	/
4	2418.0625	96.56	106.16	9.60	74.00	-32.16	200	172	Vertical	No limit

802.11n HT40 mode MIMO

Lowest Channel

Frequency 2422MHz

Environment: 20.2°C/60%RH

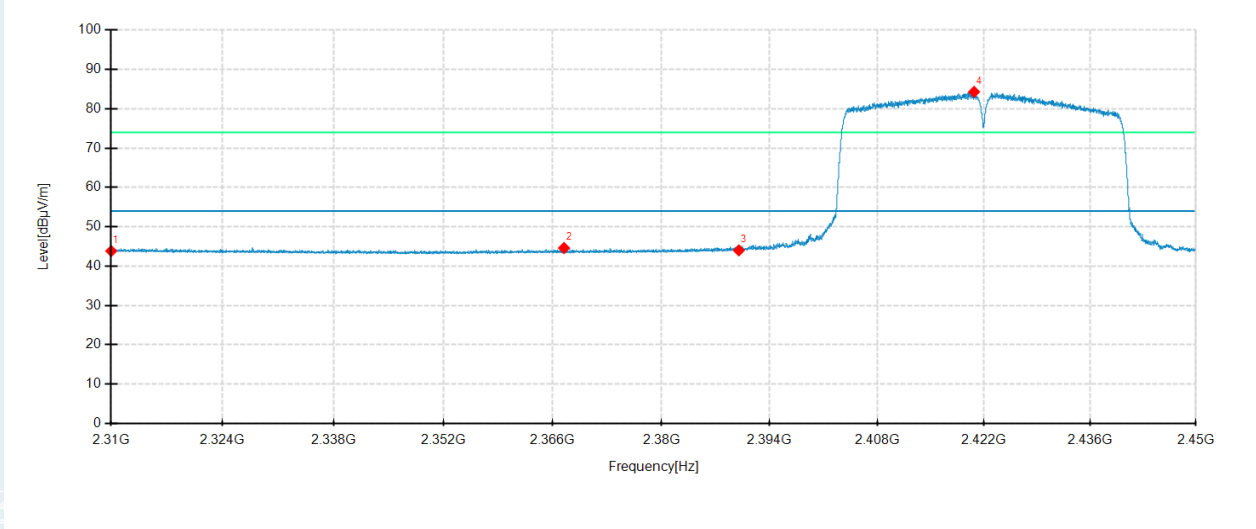
Tested By: Chen Xiacong

Detector mode: Average

Voltage: AC 120V/60Hz

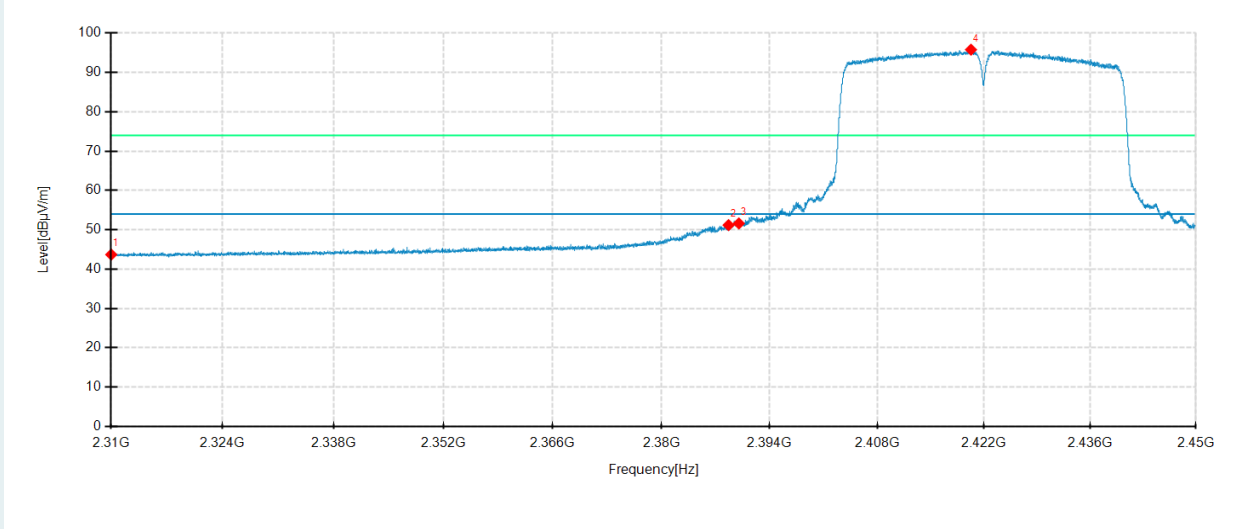
Date: 2023-04-24

Polarity: Horizontal



Detector mode: Average

Polarity: Vertical



No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBμV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	2310	34.07	43.84	9.77	54.00	10.16	100	338	Horizontal	/
2	2367.435	35.54	44.60	9.06	54.00	9.40	100	358	Horizontal	/
3	2390	34.89	44.00	9.11	54.00	10.00	200	61	Horizontal	/
4	2420.6875	75.24	84.29	9.05	54.00	-30.29	100	122	Horizontal	No limit
1	2310	34.62	43.69	9.07	54.00	10.31	200	202	Vertical	/
2	2388.6625	41.67	51.18	9.51	54.00	2.82	200	220	Vertical	/
3	2390	42.08	51.61	9.53	54.00	2.39	200	191	Vertical	/
4	2420.285	86.18	95.77	9.59	54.00	-41.77	200	182	Vertical	No limit

802.11n HT40 mode MIMO

Highest Channel

Frequency 2452MHz

Environment: 20.2°C/60%RH

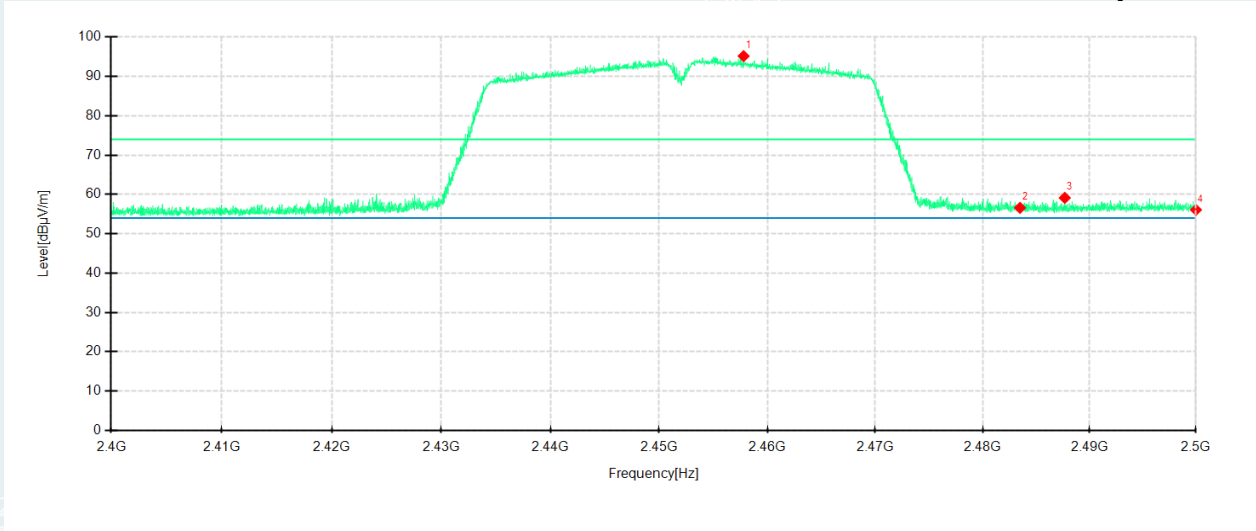
Tested By: Chen Xiacong

Detector mode: Peak

Voltage: AC 120V/60Hz

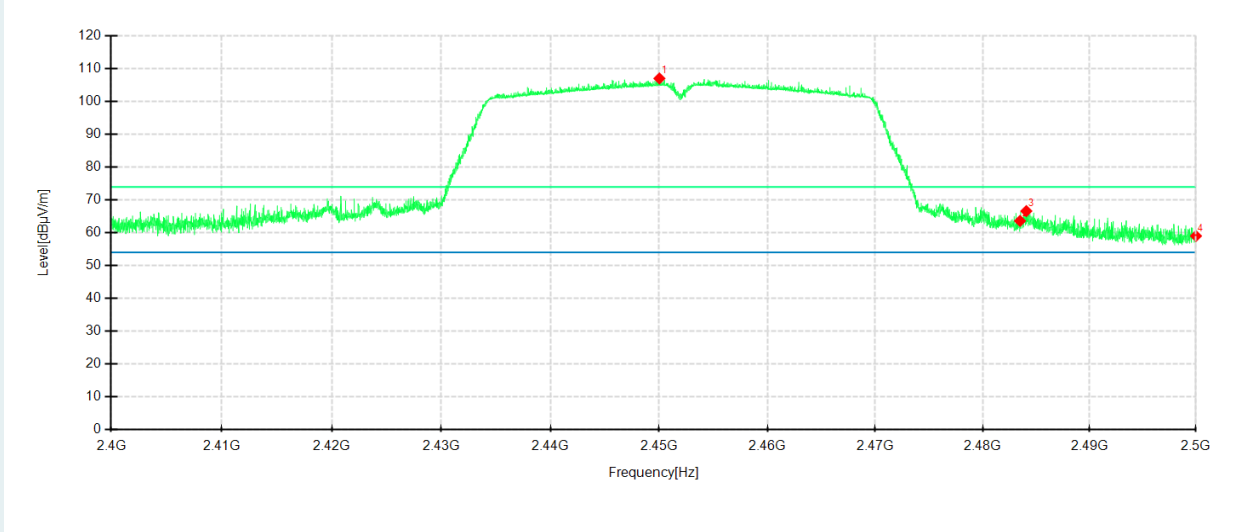
Date: 2023-04-24

Polarity: Horizontal



Detector mode: Peak

Polarity: Vertical



No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBμV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	2457.8	86.05	95.16	9.11	74.00	-21.16	200	129	Horizontal	No limit
2	2483.5	46.90	56.58	9.68	74.00	17.42	100	321	Horizontal	/
3	2487.6875	49.34	59.12	9.78	74.00	14.88	200	119	Horizontal	/
4	2500	46.02	56.07	10.05	74.00	17.93	200	168	Horizontal	/
1	2450.25	97.52	107.06	9.54	74.00	-33.06	200	210	Vertical	No limit
2	2483.5	53.87	63.62	9.75	74.00	10.38	100	179	Vertical	/
3	2484.0875	56.86	66.61	9.75	74.00	7.39	200	229	Vertical	/
4	2500	49.17	59.02	9.85	74.00	14.98	200	258	Vertical	/

802.11n HT40 mode MIMO

Highest Channel

Frequency 2452MHz

Environment: 20.2°C/60%RH

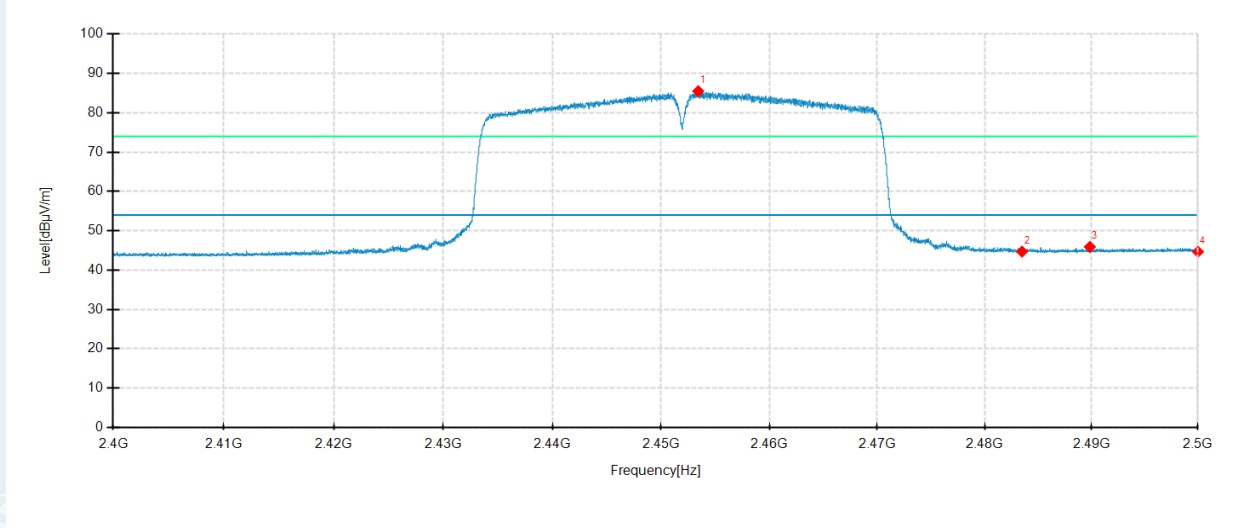
Tested By: Chen Xiacong

Detector mode: Average

Voltage: AC 120V/60Hz

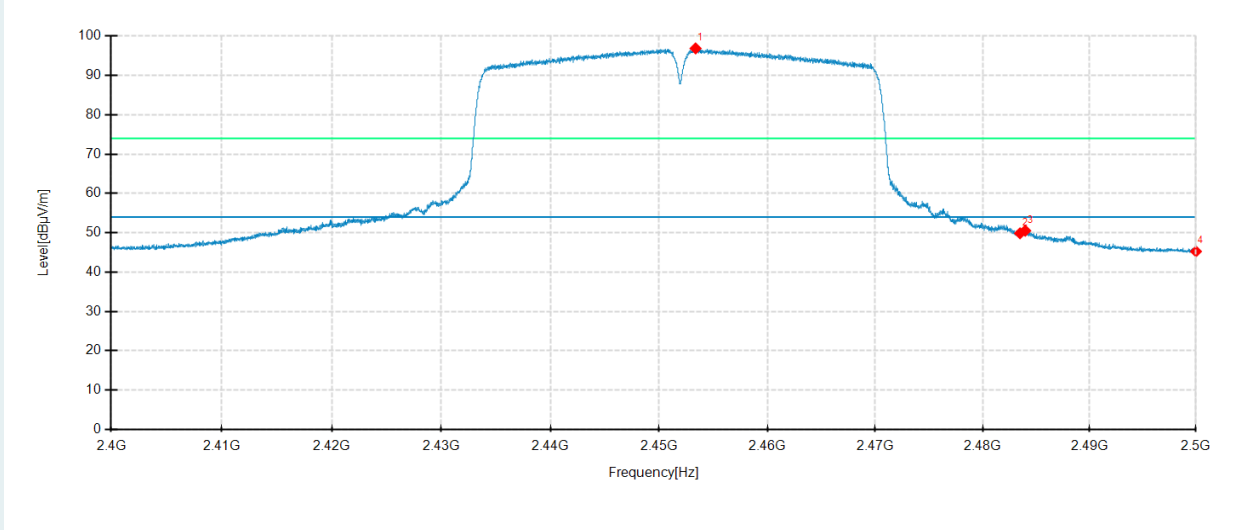
Date: 2023-04-24

Polarity: Horizontal



Detector mode: Average

Polarity: Vertical



No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBuV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	2453.425	76.46	85.47	9.01	54.00	-31.47	200	132	Horizontal	No limit
2	2483.5	35.03	44.71	9.68	54.00	9.29	200	132	Horizontal	/
3	2489.85	36.06	45.89	9.83	54.00	8.11	200	122	Horizontal	/
4	2500	34.61	44.66	10.05	54.00	9.34	200	32	Horizontal	/
1	2453.3625	87.29	96.85	9.56	54.00	-42.85	200	211	Vertical	No limit
2	2483.5	40.11	49.86	9.75	54.00	4.14	200	211	Vertical	/
3	2483.9875	40.77	50.52	9.75	54.00	3.48	200	211	Vertical	/
4	2500	35.40	45.25	9.85	54.00	8.75	200	161	Vertical	/

802.11ax HE20 mode MIMO

Lowest Channel

Frequency 2412MHz

Environment: 20.2°C/60%RH

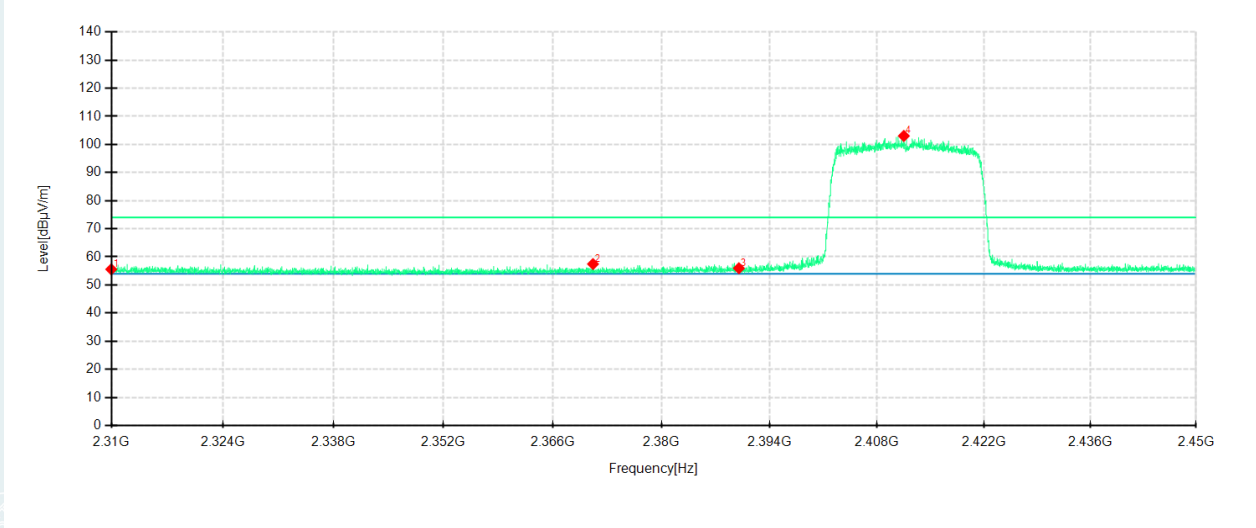
Tested By: Chen Xiacong

Detector mode: Peak

Voltage: AC 120V/60Hz

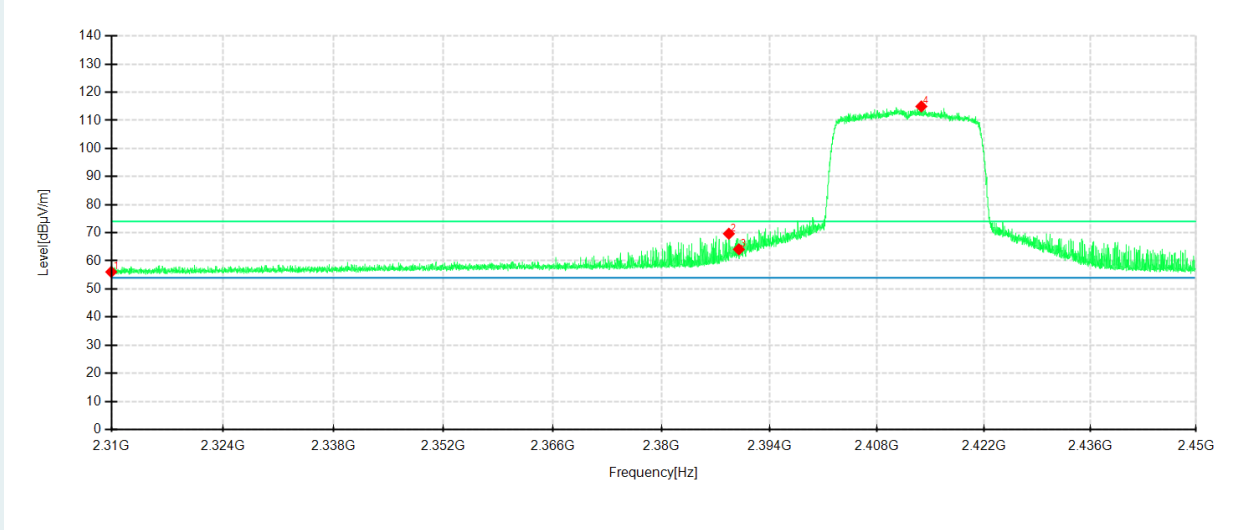
Date: 2023-04-24

Polarity: Horizontal



Detector mode: Peak

Polarity: Vertical



No.	Frequency MHz	Reading dBµV/m	Level dBµV/m	Factor dB	Limit dBµV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	2310	46.23	55.58	9.35	74.00	18.42	200	306	Horizontal	/
2	2371.1625	48.72	57.45	8.73	74.00	16.55	200	25	Horizontal	/
3	2390	47.03	55.96	8.93	74.00	18.04	200	83	Horizontal	/
4	2411.4825	93.95	103.03	9.08	74.00	-29.03	200	210	Horizontal	No limit
1	2310	46.14	56.07	9.93	74.00	17.93	100	13	Vertical	/
2	2388.6975	59.59	69.66	10.07	74.00	4.34	200	209	Vertical	/
3	2390	54.04	64.11	10.07	74.00	9.89	200	267	Vertical	/
4	2413.775	105.16	114.95	9.79	74.00	-40.95	200	267	Vertical	No limit

802.11ax HE20 mode MIMO

Lowest Channel

Frequency 2412MHz

Environment: 20.2°C/60%RH

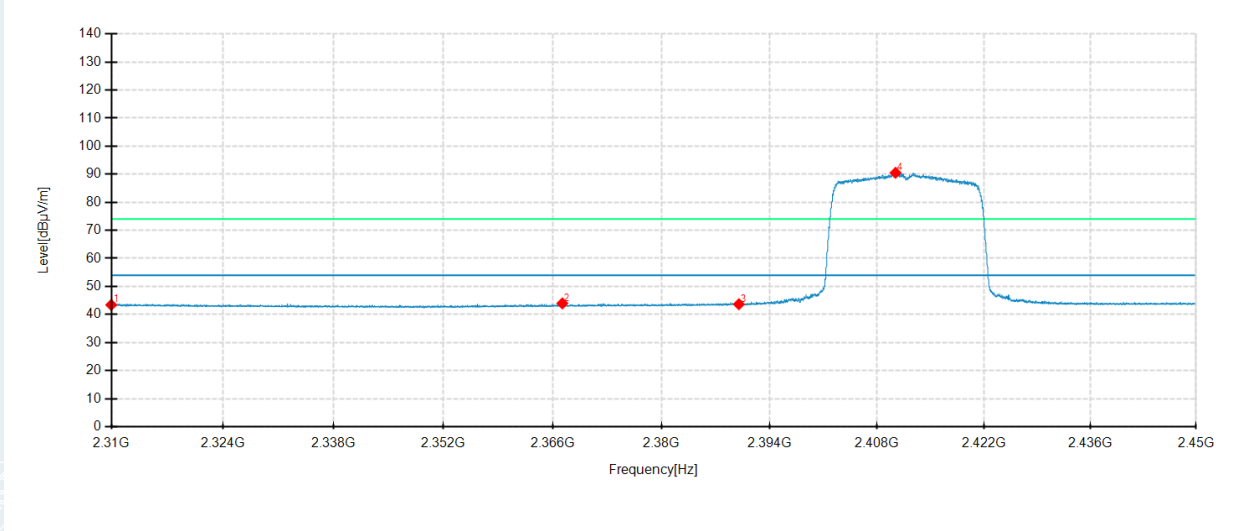
Tested By: Chen Xiacong

Detector mode: Average

Voltage: AC 120V/60Hz

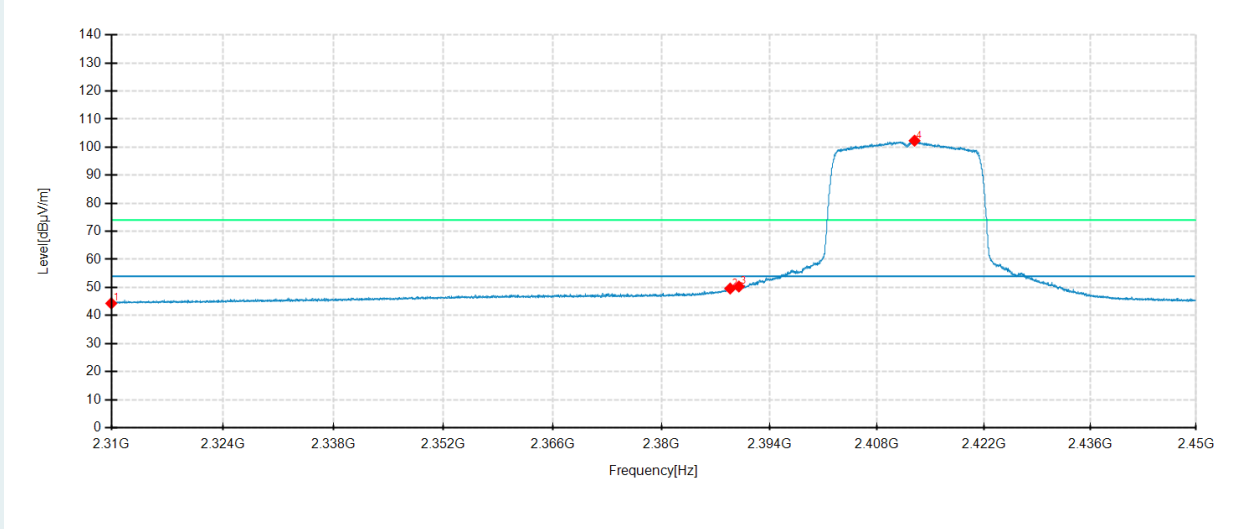
Date: 2023-04-24

Polarity: Horizontal



Detector mode: Average

Polarity: Vertical



No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBμV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	2310	34.07	43.42	9.35	54.00	10.58	100	208	Horizontal	/
2	2367.225	35.25	43.95	8.70	54.00	10.05	100	229	Horizontal	/
3	2390	34.73	43.66	8.93	54.00	10.34	100	160	Horizontal	/
4	2410.3975	81.44	90.51	9.07	54.00	-36.51	200	213	Horizontal	No limit
1	2310	34.38	44.31	9.93	54.00	9.69	200	236	Vertical	/
2	2388.8725	39.53	49.60	10.07	54.00	4.40	200	236	Vertical	/
3	2390	40.26	50.33	10.07	54.00	3.67	200	268	Vertical	/
4	2412.8825	92.52	102.32	9.80	54.00	-48.32	200	256	Vertical	No limit

802.11ax HE20 mode MIMO

Highest Channel

Frequency 2462MHz

Environment: 20.2°C/60%RH

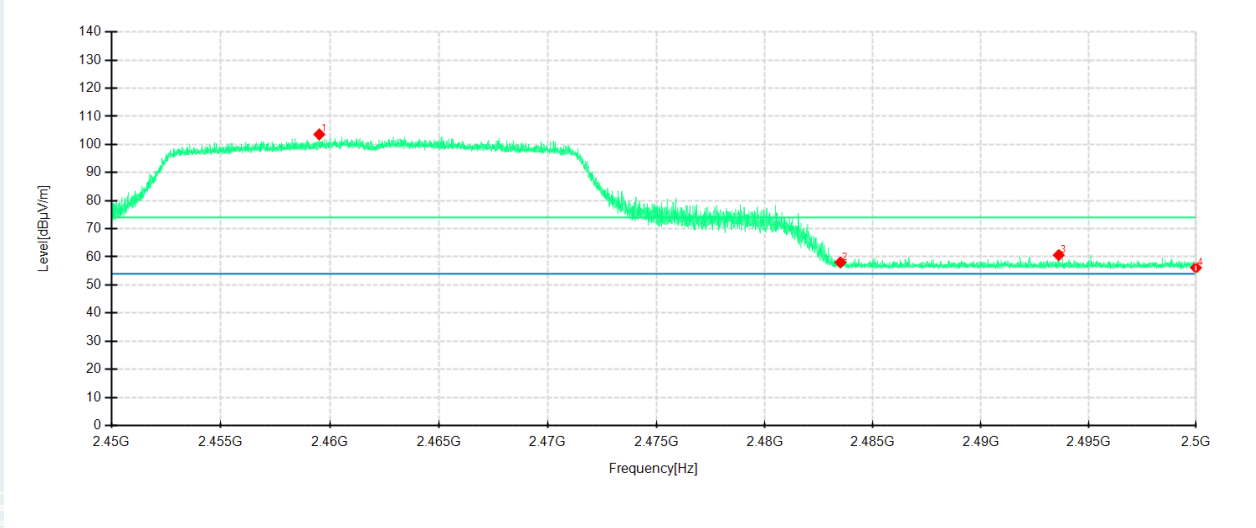
Tested By: Chen Xiacong

Detector mode: Peak

Voltage: AC 120V/60Hz

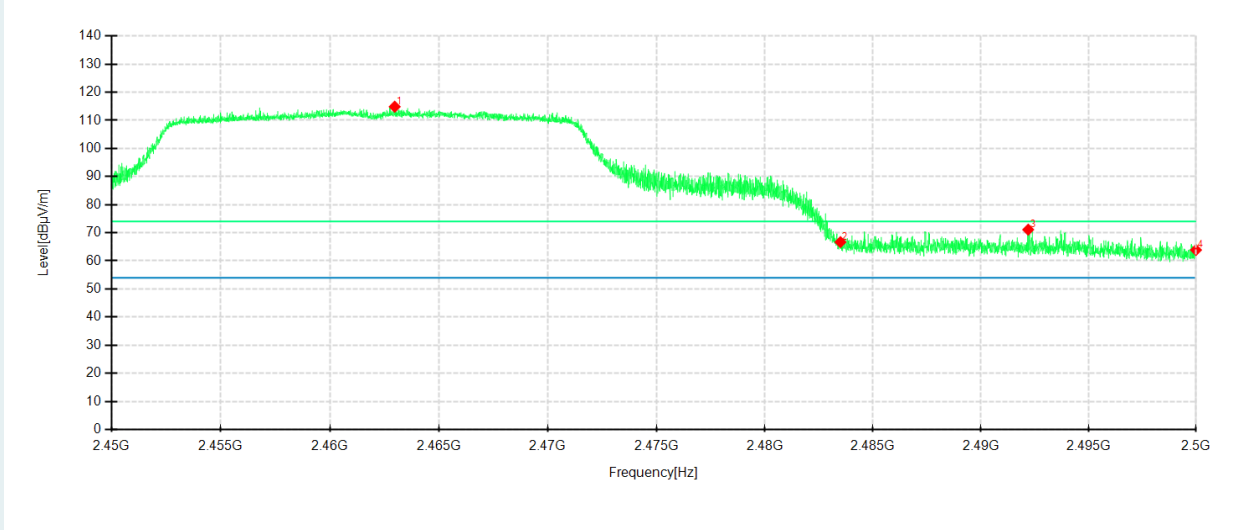
Date: 2023-04-24

Polarity: Horizontal



Detector mode: Peak

Polarity: Vertical



No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBμV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	2459.5125	94.15	103.58	9.43	74.00	-29.58	100	44	Horizontal	No limit
2	2483.5	48.10	58.02	9.92	74.00	15.98	200	250	Horizontal	/
3	2493.6188	50.51	60.63	10.12	74.00	13.37	100	44	Horizontal	/
4	2500	45.89	56.14	10.25	74.00	17.86	100	92	Horizontal	/
1	2462.9688	105.66	114.85	9.19	74.00	-40.85	100	251	Vertical	No limit
2	2483.5	57.40	66.68	9.28	74.00	7.32	100	203	Vertical	/
3	2492.2	61.79	71.11	9.32	74.00	2.89	200	217	Vertical	/
4	2500	54.53	63.88	9.35	74.00	10.12	200	168	Vertical	/

802.11ax HE20 mode MIMO

Highest Channel

Frequency 2462MHz

Environment: 20.2°C/60%RH

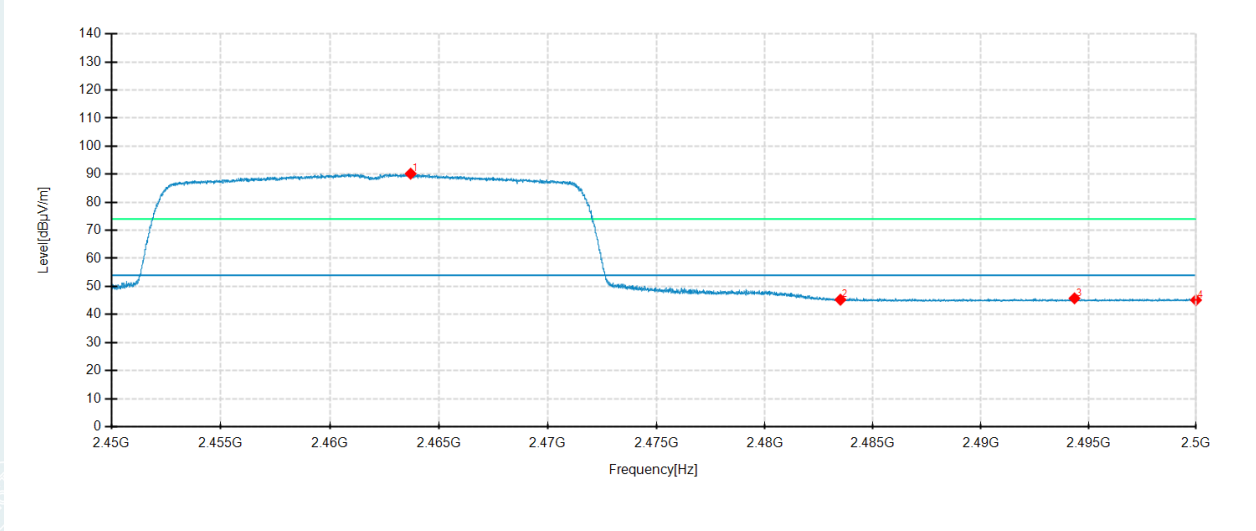
Tested By: Chen Xiacong

Detector mode: Average

Voltage: AC 120V/60Hz

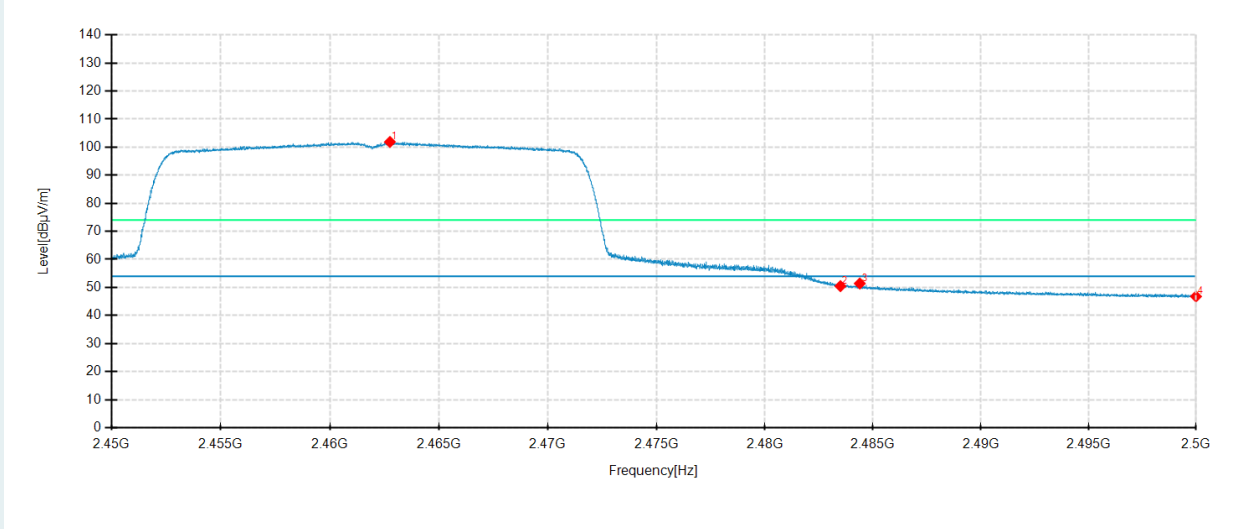
Date: 2023-04-24

Polarity: Horizontal



Detector mode: Average

Polarity: Vertical



No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBμV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	2463.7	80.67	90.19	9.52	54.00	-36.19	100	42	Horizontal	No limit
2	2483.5	35.35	45.27	9.92	54.00	8.73	100	317	Horizontal	/
3	2494.35	35.61	45.75	10.14	54.00	8.25	100	296	Horizontal	/
4	2500	34.88	45.13	10.25	54.00	8.87	200	199	Horizontal	/
1	2462.75	92.68	101.87	9.19	54.00	-47.87	200	257	Vertical	No limit
2	2483.5	41.18	50.46	9.28	54.00	3.54	200	246	Vertical	/
3	2484.3938	42.12	51.40	9.28	54.00	2.60	200	217	Vertical	/
4	2500	37.42	46.77	9.35	54.00	7.23	200	276	Vertical	/

802.11ax HE40 mode MIMO

Lowest Channel

Frequency 2422MHz

Environment: 20.2°C/60%RH

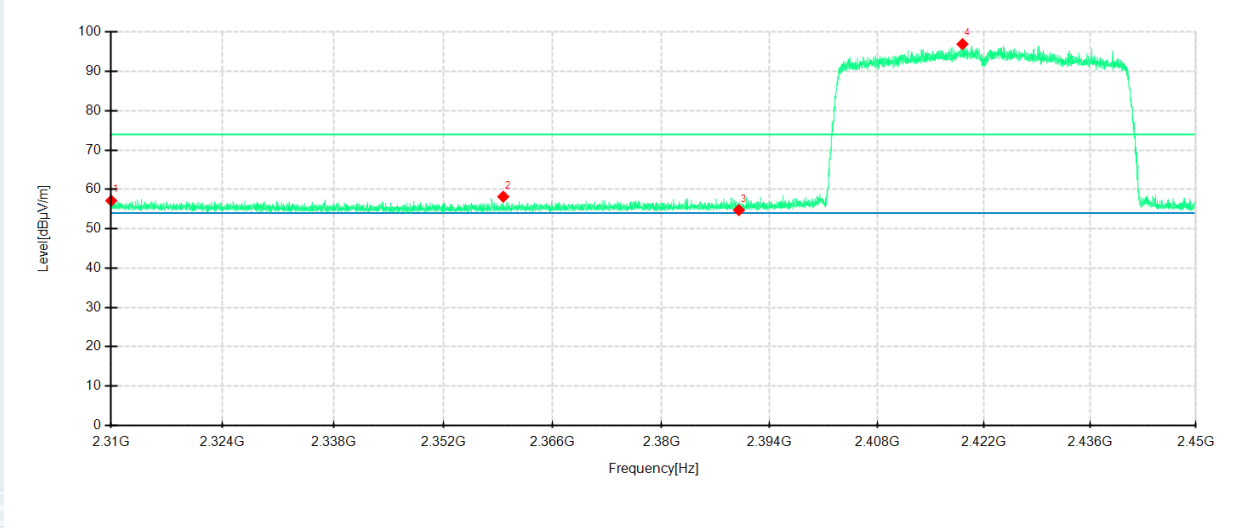
Tested By: Chen Xiacong

Detector mode: Peak

Voltage: AC 120V/60Hz

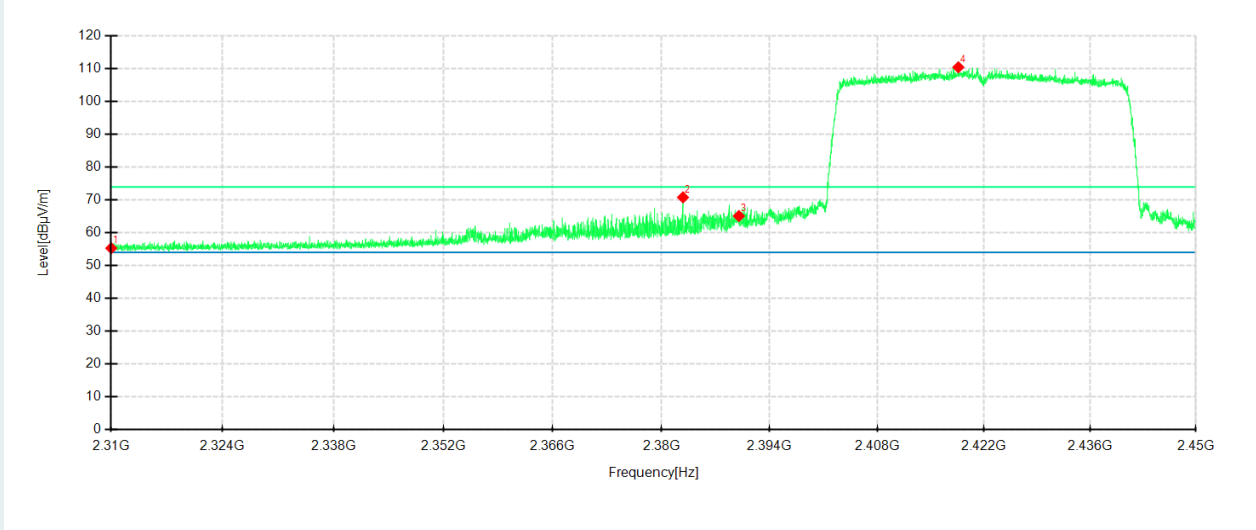
Date: 2023-04-24

Polarity: Horizontal



Detector mode: Peak

Polarity: Vertical



No.	Frequency MHz	Reading dBµV/m	Level dBµV/m	Factor dB	Limit dBµV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	2310	47.38	57.15	9.77	74.00	16.85	100	56	Horizontal	/
2	2359.6475	49.11	58.15	9.04	74.00	15.85	200	0	Horizontal	/
3	2390	45.63	54.74	9.11	74.00	19.26	100	241	Horizontal	/
4	2419.165	87.87	96.93	9.06	74.00	-22.93	100	125	Horizontal	No limit
1	2310	46.22	55.29	9.07	74.00	18.71	100	316	Vertical	/
2	2382.765	61.34	70.79	9.45	74.00	3.21	100	131	Vertical	/
3	2390	55.58	65.11	9.53	74.00	8.89	200	161	Vertical	/
4	2418.6225	100.88	110.48	9.60	74.00	-36.48	200	181	Vertical	No limit

802.11ax HE40 mode MIMO

Lowest Channel

Frequency 2422MHz

Environment: 20.2°C/60%RH

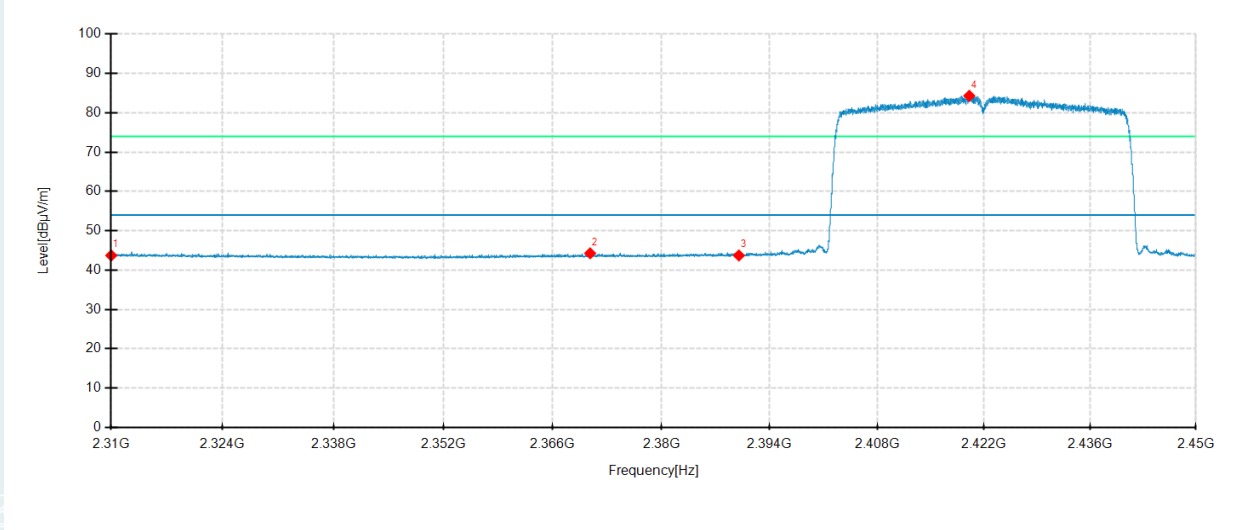
Tested By: Chen Xiacong

Detector mode: Average

Voltage: AC 120V/60Hz

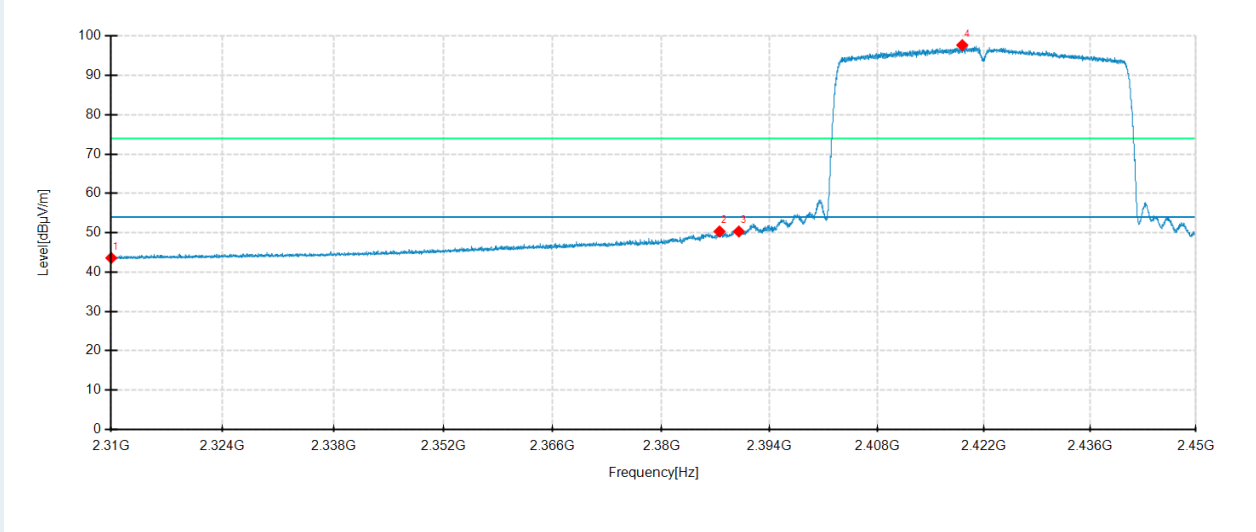
Date: 2023-04-24

Polarity: Horizontal



Detector mode: Average

Polarity: Vertical



No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBμV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	2310	33.95	43.72	9.77	54.00	10.28	200	190	Horizontal	/
2	2370.795	35.20	44.27	9.07	54.00	9.73	200	315	Horizontal	/
3	2390	34.61	43.72	9.11	54.00	10.28	200	207	Horizontal	/
4	2420.0575	75.25	84.30	9.05	54.00	-30.30	100	122	Horizontal	No limit
1	2310	34.53	43.60	9.07	54.00	10.40	200	240	Vertical	/
2	2387.49	40.84	50.34	9.50	54.00	3.66	200	181	Vertical	/
3	2390	40.79	50.32	9.53	54.00	3.68	200	172	Vertical	/
4	2419.13	88.09	97.69	9.60	54.00	-43.69	200	181	Vertical	No limit

802.11ax HE40 mode MIMO

Highest Channel

Frequency 2452MHz

Environment: 20.2°C/60%RH

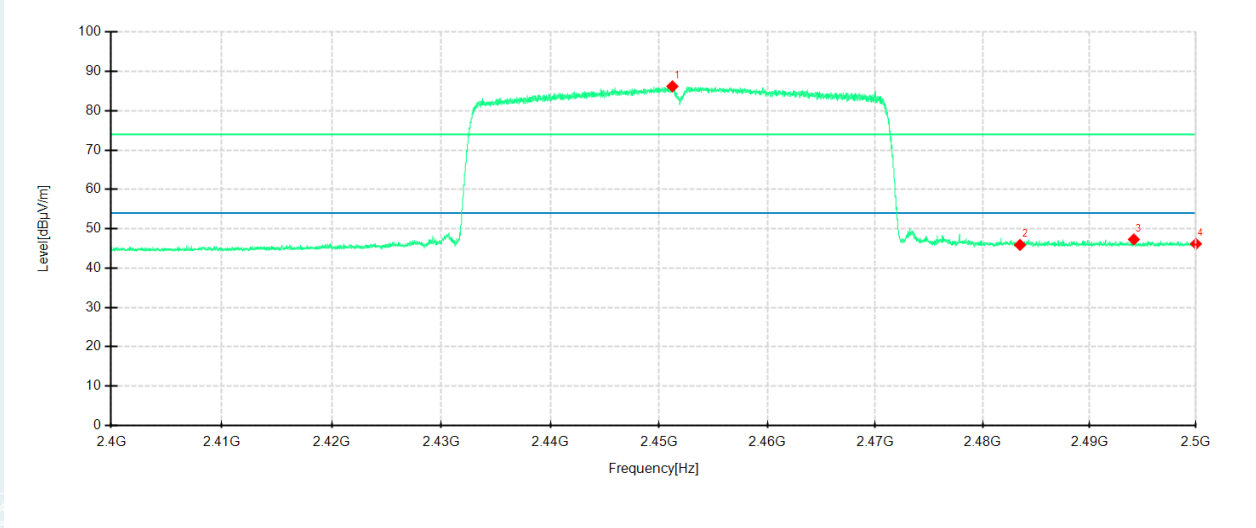
Tested By: Chen Xiacong

Detector mode: Peak

Voltage: AC 120V/60Hz

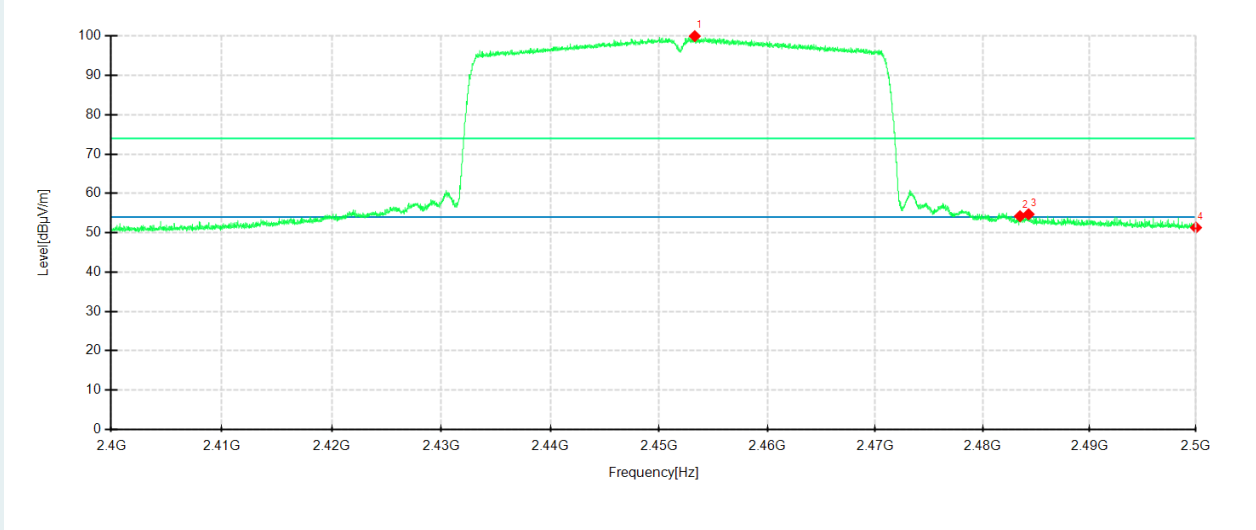
Date: 2023-04-24

Polarity: Horizontal



Detector mode: Peak

Polarity: Vertical



No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBμV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	2451.225	77.23	86.20	8.97	74.00	-12.20	100	329	Horizontal	No limit
2	2483.5	36.21	45.89	9.68	74.00	28.11	100	329	Horizontal	/
3	2494.1625	37.36	47.28	9.92	74.00	26.72	100	222	Horizontal	/
4	2500	36.11	46.16	10.05	74.00	27.84	100	319	Horizontal	/
1	2453.2875	90.42	99.98	9.56	74.00	-25.98	100	185	Vertical	No limit
2	2483.5	44.45	54.20	9.75	74.00	19.80	100	175	Vertical	/
3	2484.3	44.95	54.70	9.75	74.00	19.30	200	84	Vertical	/
4	2500	41.45	51.30	9.85	74.00	22.70	200	182	Vertical	/

**802.11ax HE40 mode MIMO
Highest Channel**

Frequency 2452MHz

Environment: 20.2°C/60%RH

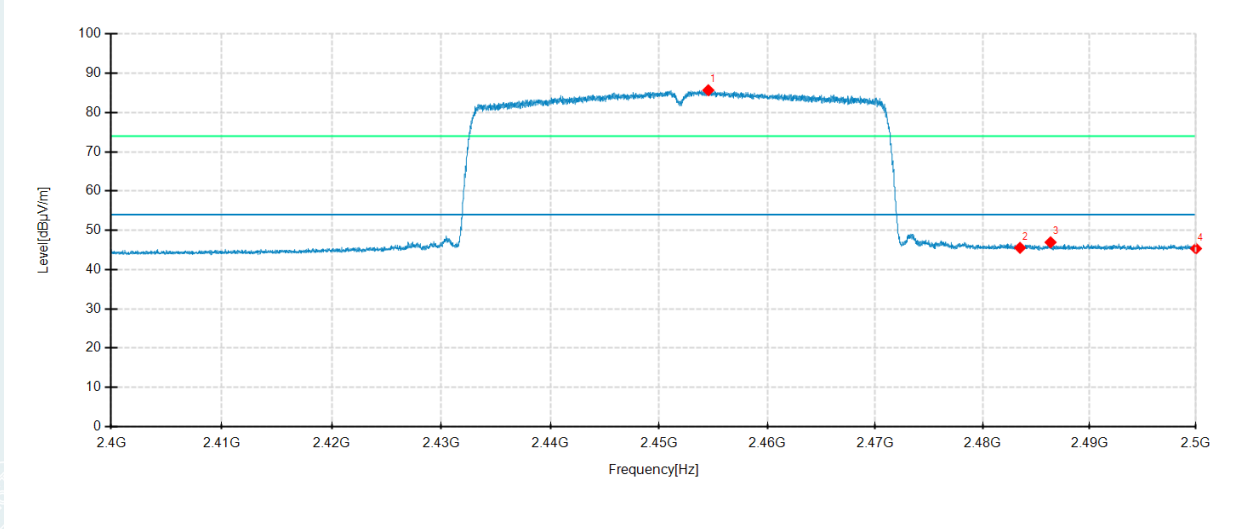
Tested By: Chen Xiacong

Detector mode: Average

Voltage: AC 120V/60Hz

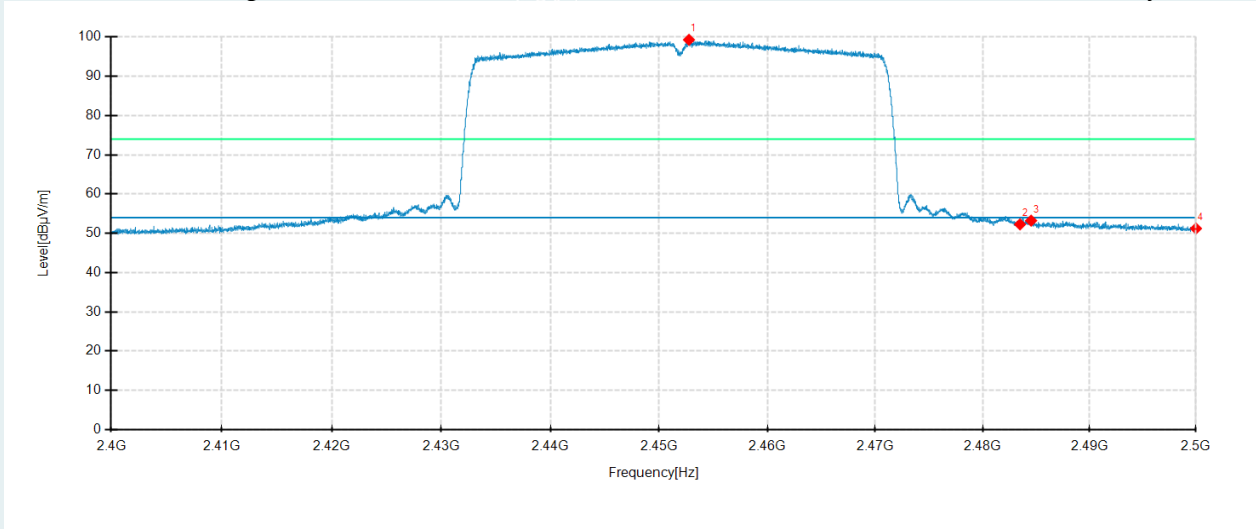
Date: 2023-04-24

Polarity: Horizontal



Detector mode: Average

Polarity: Vertical



No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBμV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	2454.5375	76.63	85.67	9.04	54.00	-31.67	200	129	Horizontal	No limit
2	2483.5	35.86	45.54	9.68	54.00	8.46	100	246	Horizontal	/
3	2486.3625	37.21	46.95	9.74	54.00	7.05	100	324	Horizontal	/
4	2500	35.30	45.35	10.05	54.00	8.65	100	224	Horizontal	/
1	2452.75	89.72	99.28	9.56	54.00	-45.28	200	184	Vertical	No limit
2	2483.5	42.53	52.28	9.75	54.00	1.72	100	98	Vertical	/
3	2484.5375	43.47	53.23	9.76	54.00	0.77	200	163	Vertical	/
4	2500	41.37	51.22	9.85	54.00	2.78	200	125	Vertical	/

APPENDIX A. PHOTOGRAPH OF THE TEST CONNECTION DIAGRAM

Please refer to the attached document E20230322427101-6 Test setup photo.

APPENDIX B. PHOTOGRAPH OF THE EUT

Please refer to the attached document E20230322427101-7 EUT Photo.

----- **End of Report** -----