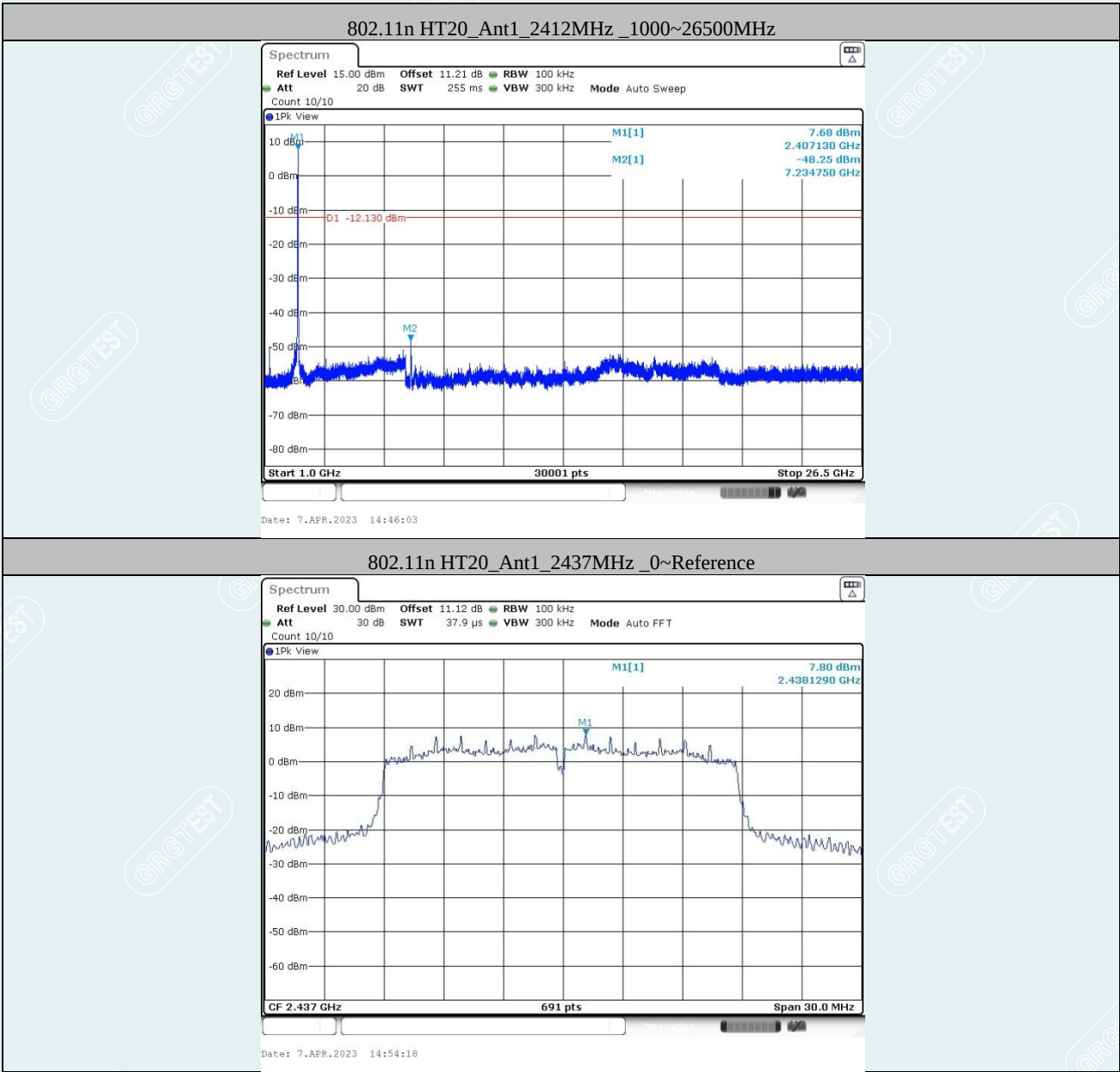
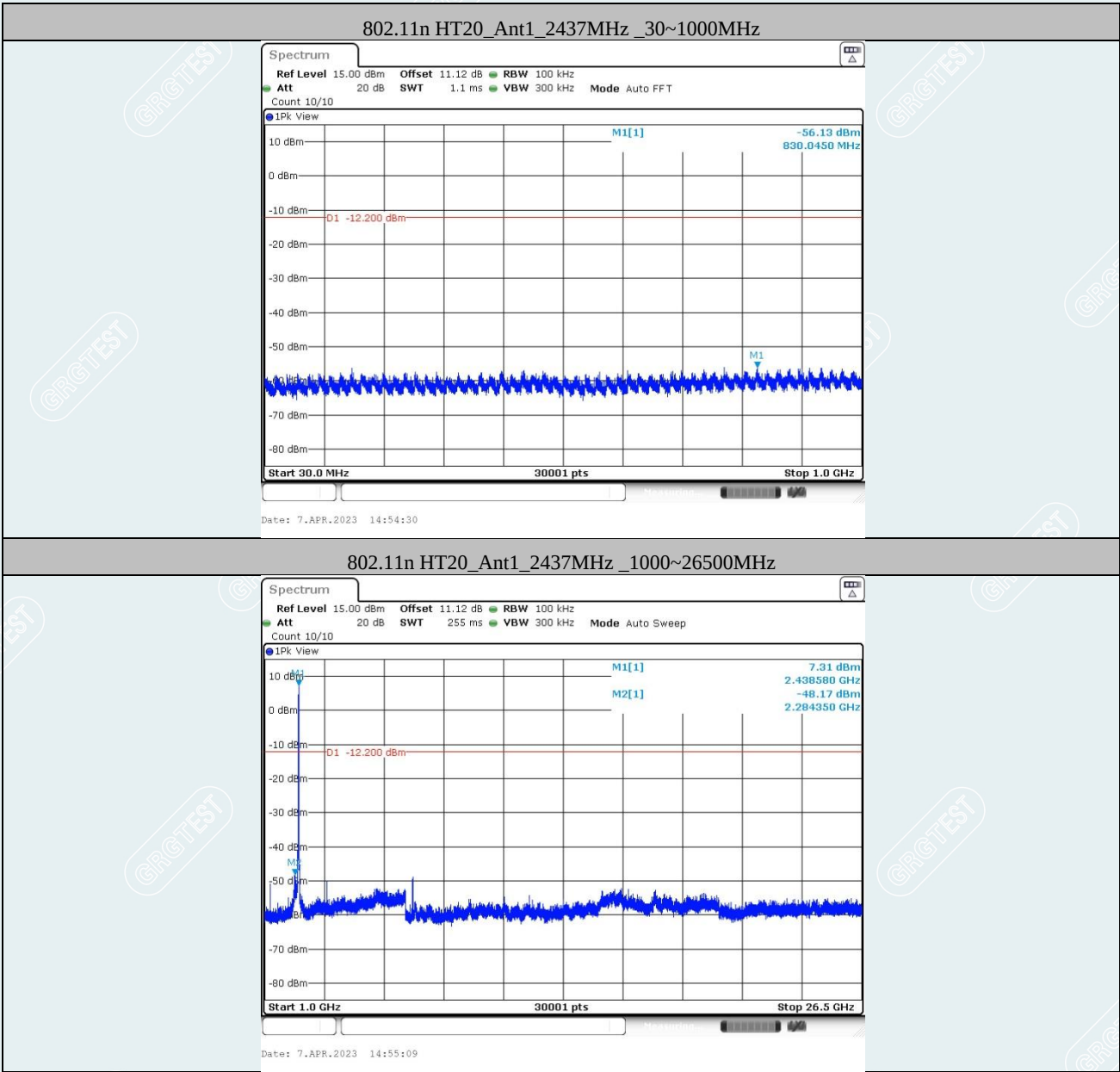
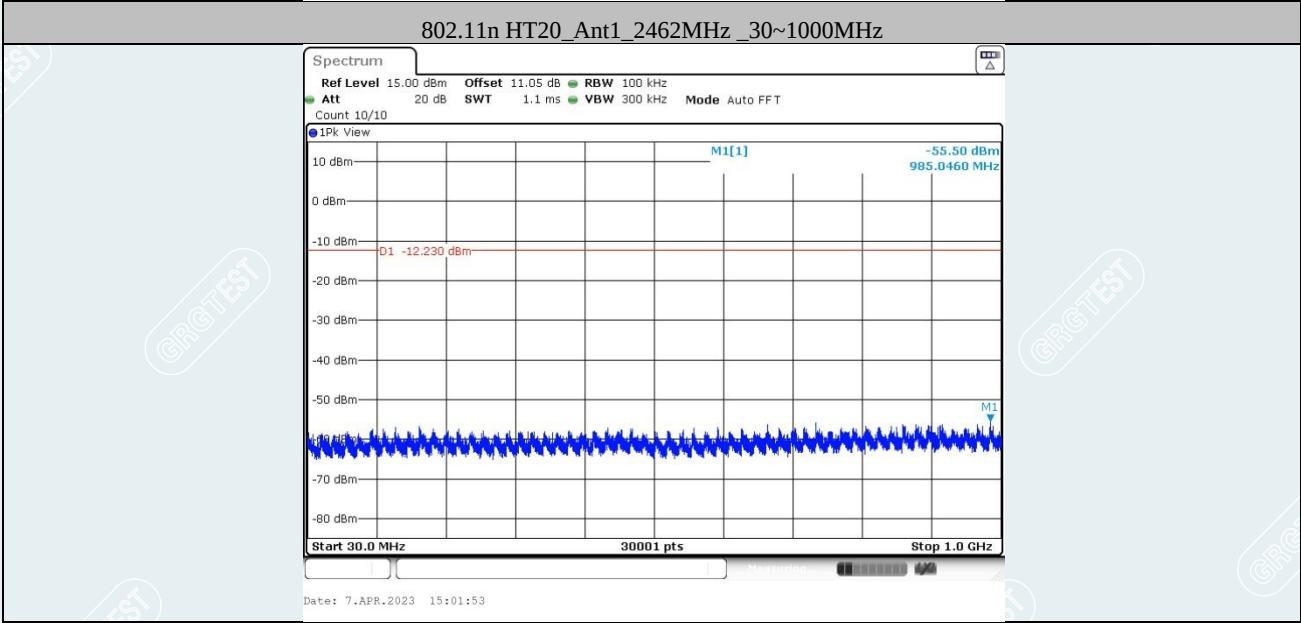
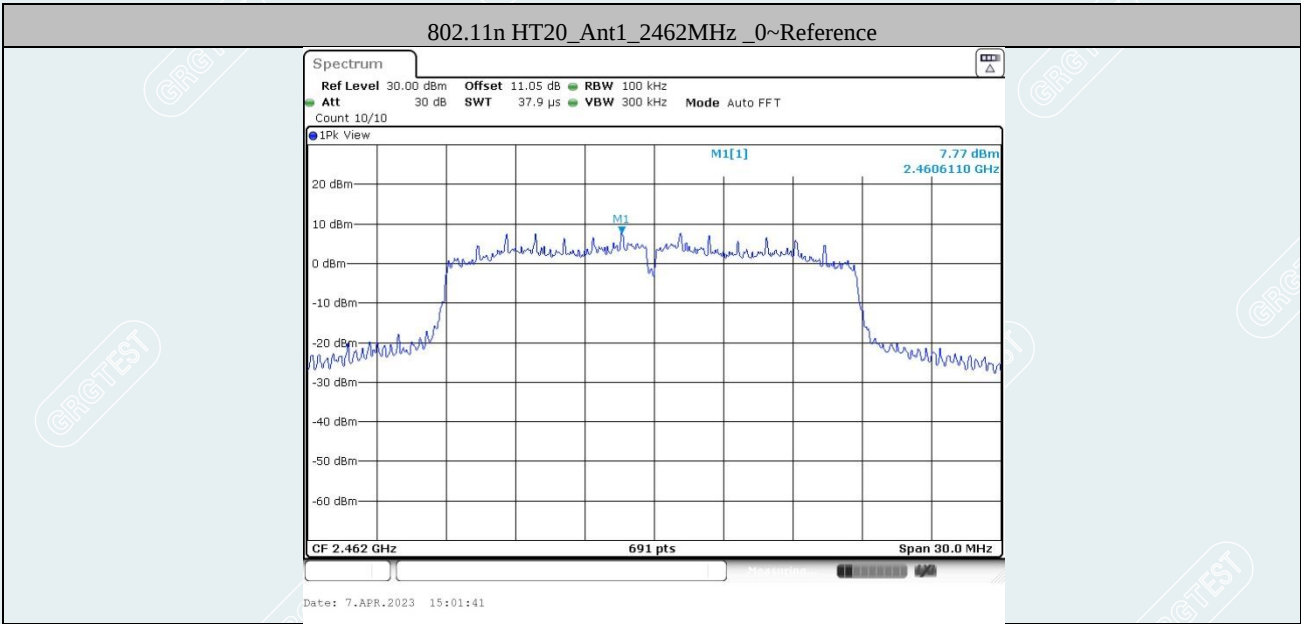
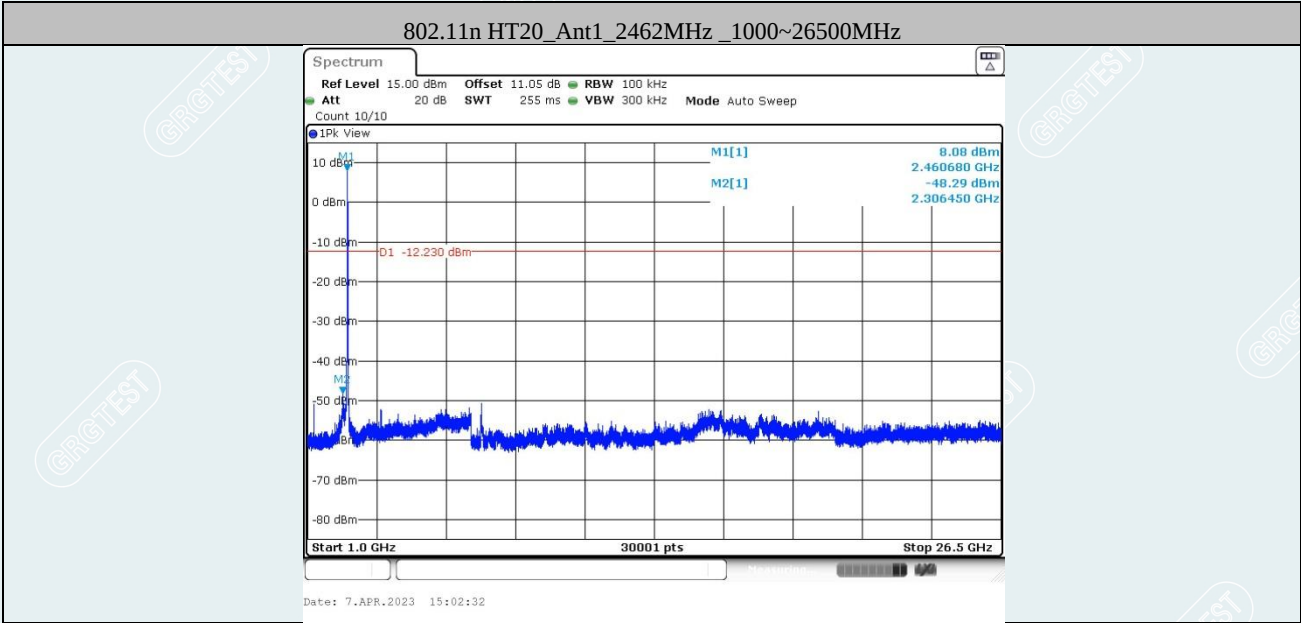










----- The following blanks -----

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)).

MHz	MHz	MHz	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			

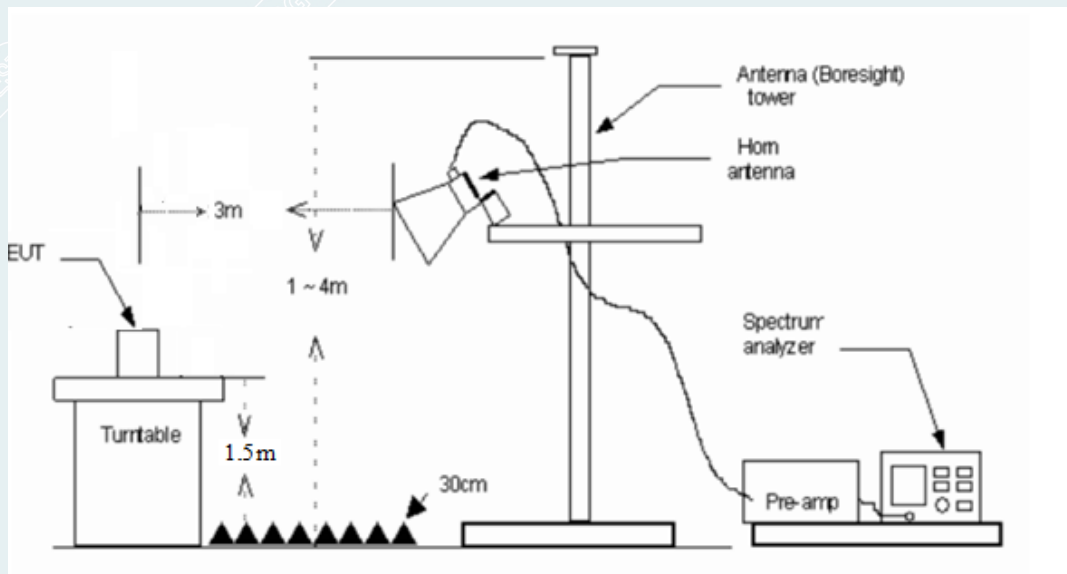
Frequency (MHz)	Quasi-peak(μ V/m)	Measurement distance(m)	Quasi-peak(dB μ V/m)@distance 3m
0.009-0.490	2400/F(kHz)	300	128.5~93.8
0.490-1.705	24000/F(kHz)	30	73.8~63
1.705-30.0	30	30	69.5
30~88	100	3	40
88~216	150	3	43.5
216~960	200	3	46
Above 960	500	3	54

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 2.9.
- 5) Repeat the procedures until all the PEAK and AVERAGE versus polarization are measured.

11.3 TEST SETUP



11.4 TEST RESULTS

802.11b mode

Lowest Channel

Frequency 2412MHz

Environment: 20.2°C/56%RH/101.0kPa

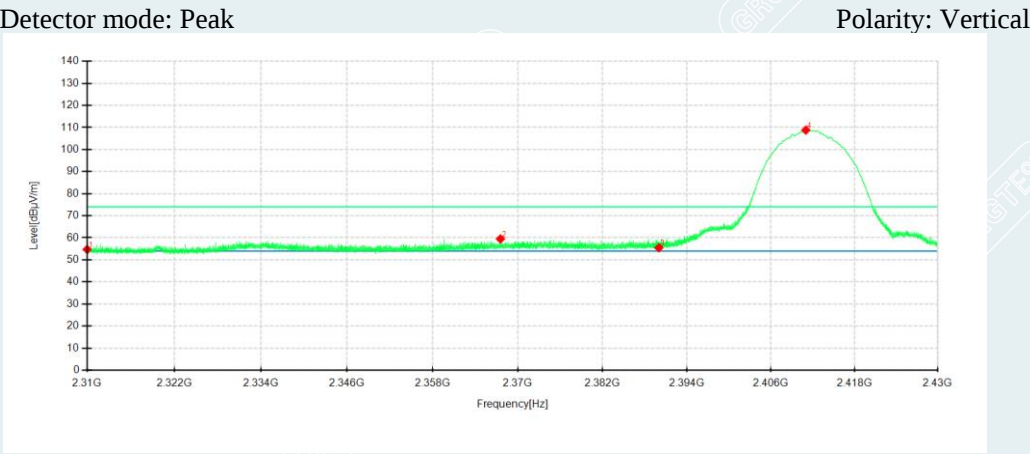
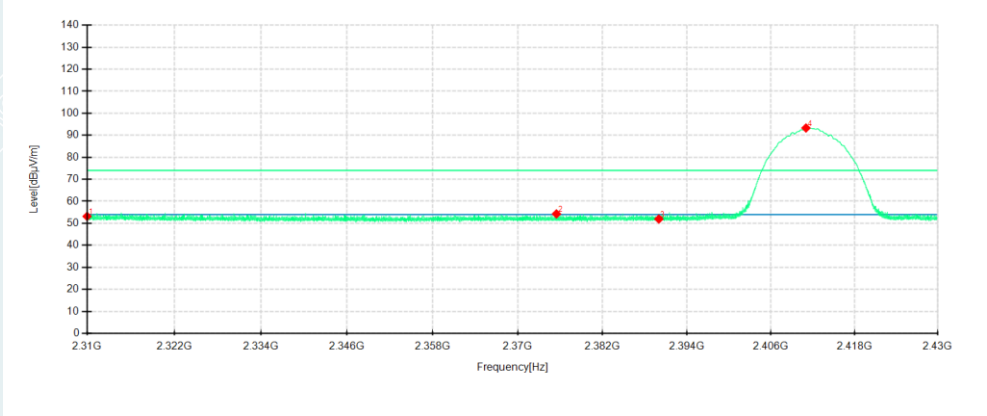
Tested By: Zhang zishan

Detector mode: Peak

Voltage: AC120V/60Hz

Date: 2023-04-08

Polarity: Horizontal



No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBuV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	2310	43.80	53.15	9.35	74.00	20.85	200	331	Horizontal	/
2	2375.4764	45.49	54.27	8.78	74.00	19.73	100	272	Horizontal	/
3	2390	43.02	51.95	8.93	74.00	22.05	200	107	Horizontal	/
4	2411.0307	84.23	93.31	9.08	74.00	-19.31	200	296	Horizontal	No limit
1	2310	44.80	54.73	9.93	74.00	19.27	200	15	Vertical	/
2	2367.5558	49.34	59.49	10.15	74.00	14.51	200	15	Vertical	/
3	2390	45.38	55.45	10.07	74.00	18.55	200	360	Vertical	/
4	2411.0067	98.96	108.80	9.84	74.00	-34.80	200	360	Vertical	No limit

802.11b mode

Lowest Channel

Frequency 2412MHz

Environment: 20.2℃/56%RH/101.0kPa

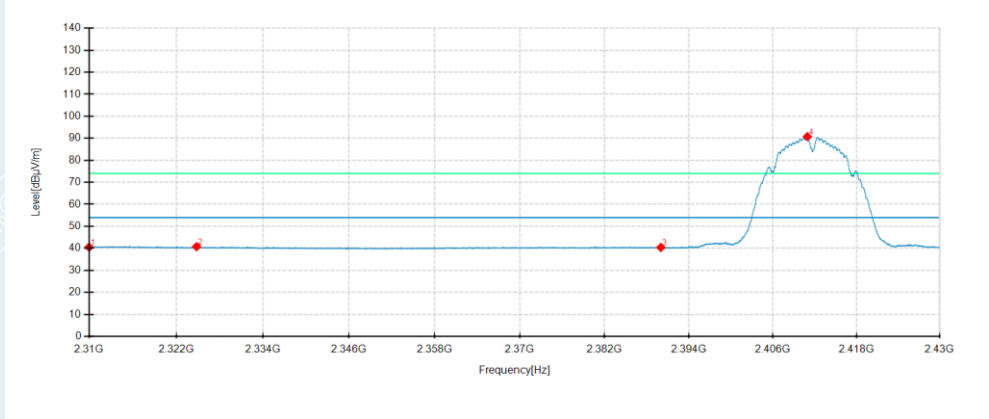
Tested By: Zhang zishan

Detector mode: Average

Voltage: AC120V/60Hz

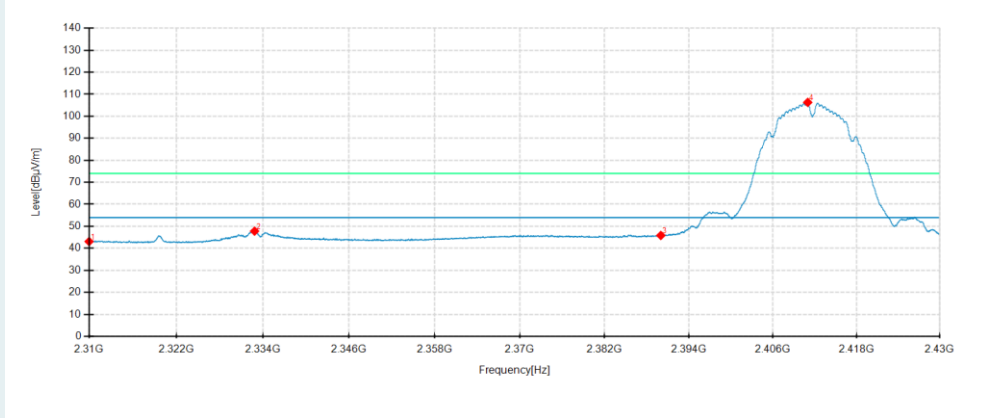
Date: 2023-04-08

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	31.17	40.52	9.35	54.00	13.48	200	81	Horizontal	/
2	2324.833	31.72	40.76	9.04	54.00	13.24	100	360	Horizontal	/
3	2390	31.48	40.41	8.93	54.00	13.59	200	307	Horizontal	/
4	2410.9427	81.66	90.74	9.08	54.00	-36.74	200	295	Horizontal	No limit
1	2310	33.16	43.09	9.93	54.00	10.91	200	349	Vertical	/
2	2332.8735	37.70	47.80	10.10	54.00	6.20	200	16	Vertical	/
3	2390	35.77	45.84	10.07	54.00	8.16	200	360	Vertical	/
4	2410.9987	96.47	106.31	9.84	54.00	-52.31	200	16	Vertical	No limit

802.11b mode

Highest Channel

Frequency 2462MHz

Environment: 20.2°C/56%RH/101.0kPa

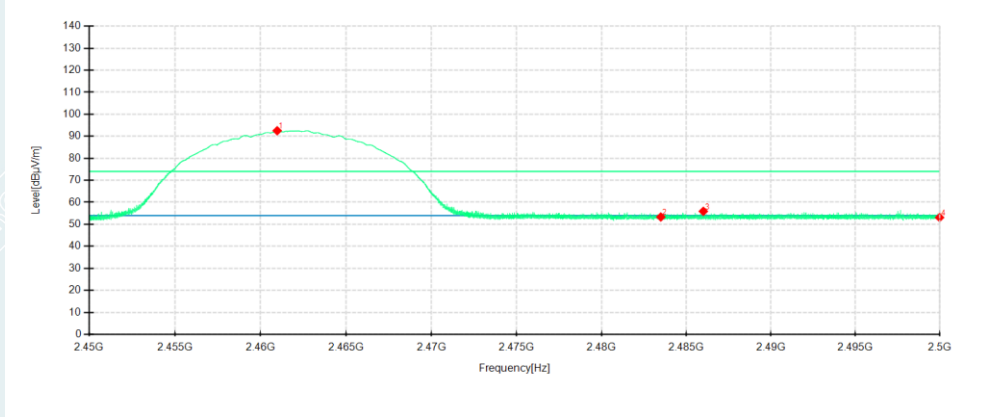
Tested By: Zhang zishan

Detector mode: Peak

Voltage: AC120V/60Hz

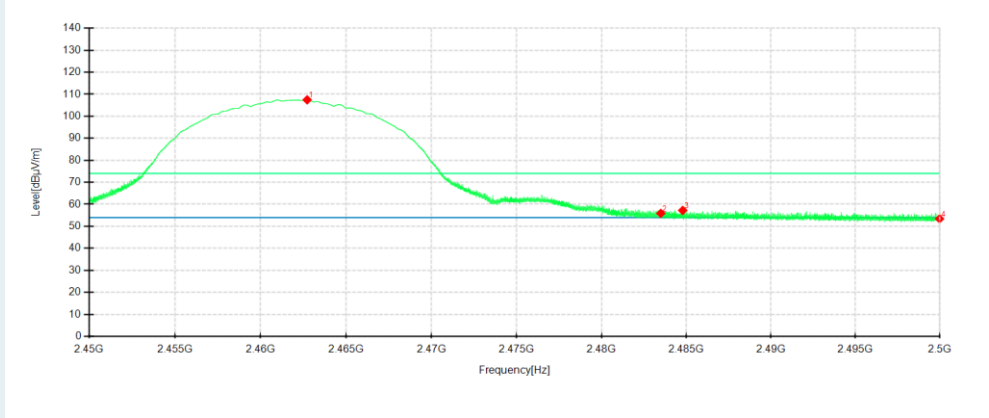
Date: 2023-04-08

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	2460.9707	83.05	92.52	9.47	74.00	-18.52	200	307	Horizontal	No limit
2	2483.5	43.41	53.33	9.92	74.00	20.67	100	180	Horizontal	/
3	2486.0091	45.94	55.91	9.97	74.00	18.09	200	91	Horizontal	/
4	2500	42.82	53.07	10.25	74.00	20.93	100	156	Horizontal	/
1	2462.7242	98.28	107.47	9.19	74.00	-33.47	200	359	Vertical	No limit
2	2483.5	46.60	55.88	9.28	74.00	18.12	200	15	Vertical	/
3	2484.7923	47.93	57.22	9.29	74.00	16.78	200	359	Vertical	/
4	2500	44.06	53.41	9.35	74.00	20.59	200	336	Vertical	/

802.11b mode-Ant 2

Highest Channel

Frequency 2462MHz

Environment: 20.2°C/56%RH/101.0kPa

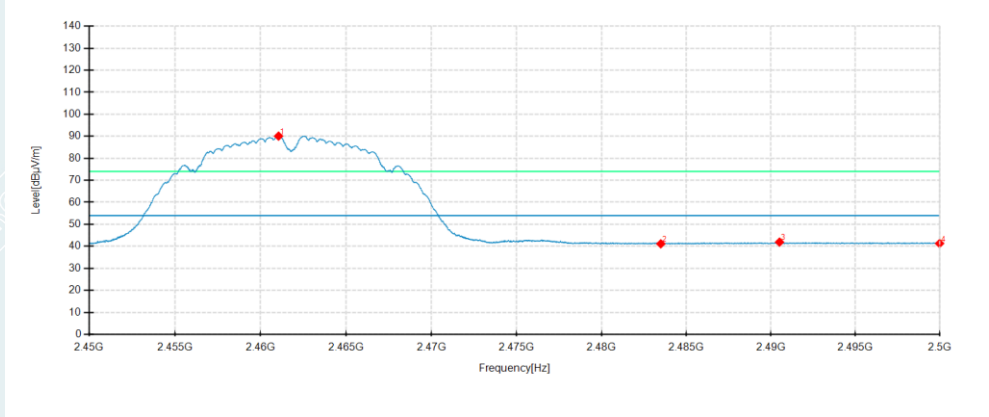
Tested By: Zhang zishan

Detector mode: Average

Voltage: AC120V/60Hz

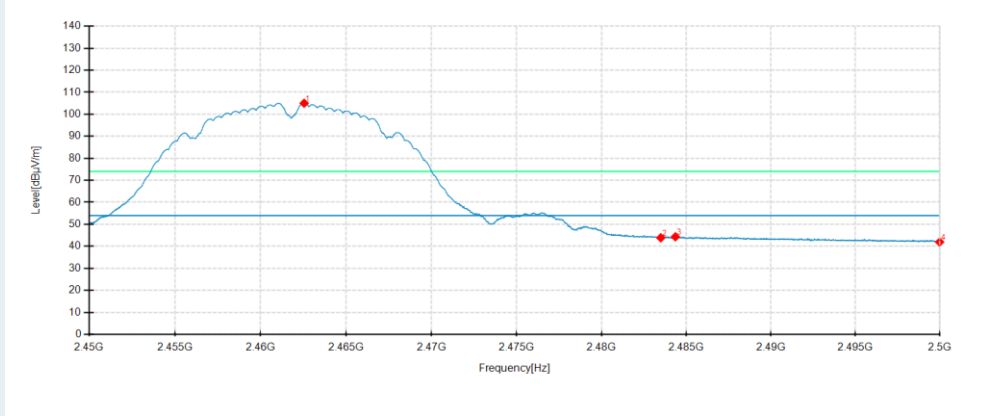
Date: 2023-04-08

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	2461.0507	80.61	90.08	9.47	54.00	-36.08	200	308	Horizontal	No limit
2	2483.5	31.22	41.14	9.92	54.00	12.86	200	86	Horizontal	/
3	2490.5127	31.86	41.92	10.06	54.00	12.08	200	296	Horizontal	/
4	2500	31.04	41.29	10.25	54.00	12.71	100	123	Horizontal	/
1	2462.5475	95.82	105.01	9.19	54.00	-51.01	200	359	Vertical	No limit
2	2483.5	34.60	43.88	9.28	54.00	10.12	200	359	Vertical	/
3	2484.359	35.04	44.32	9.28	54.00	9.68	200	16	Vertical	/
4	2500	32.60	41.95	9.35	54.00	12.05	200	16	Vertical	/

802.11g mode

Lowest Channel

Frequency 2412MHz

Environment: 20.2°C/56%RH/101.0kPa

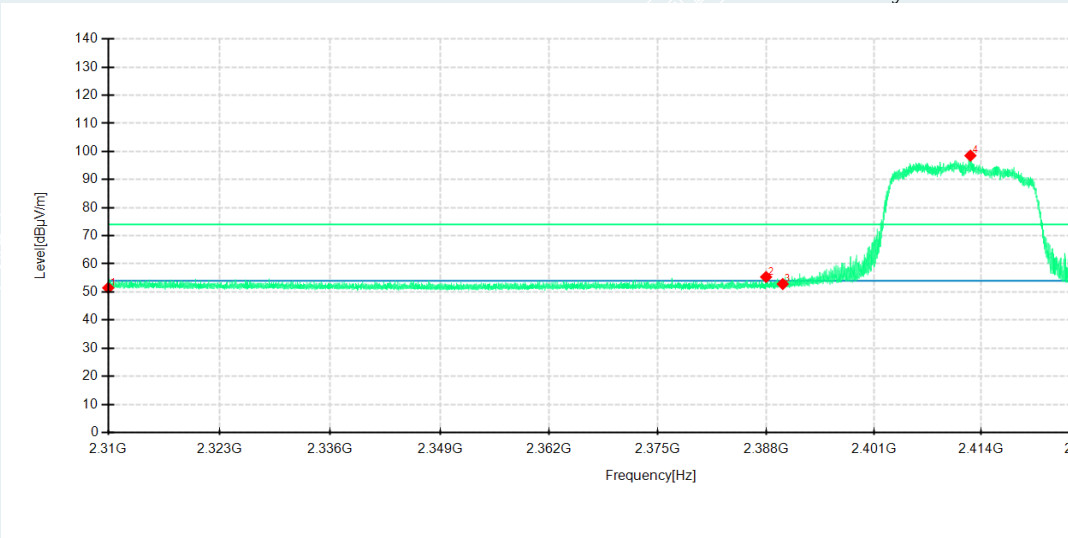
Tested By: Zhang zishan

Detector mode: Peak

Voltage: AC120V/60Hz

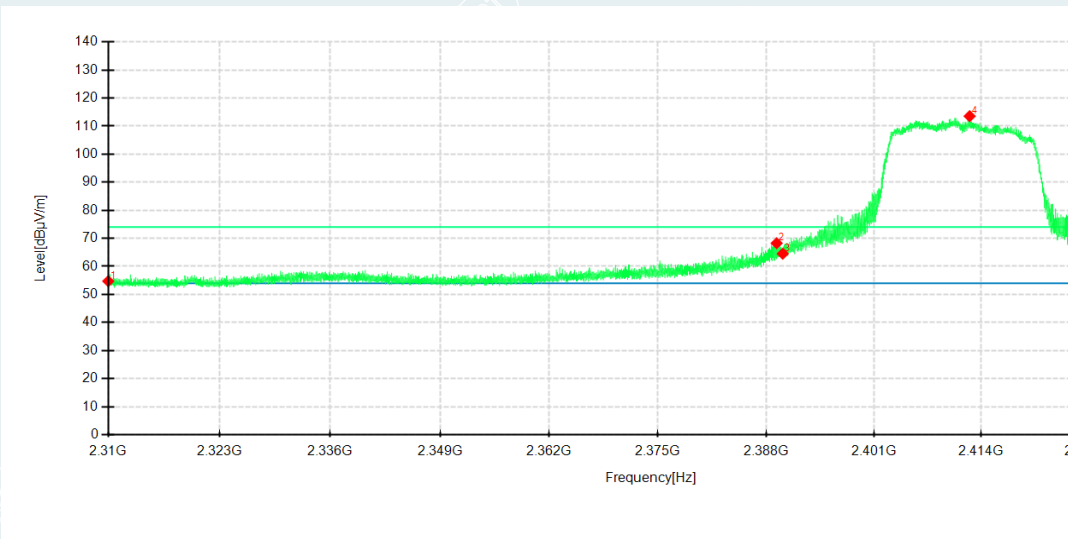
Date: 2023-04-08

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	42.11	51.46	9.35	74.00	22.54	100	122	Horizontal	/
2	2387.9879	46.43	55.34	8.91	74.00	18.66	100	287	Horizontal	/
3	2390	43.89	52.82	8.93	74.00	21.18	200	15	Horizontal	/
4	2412.7415	89.42	98.50	9.08	74.00	-24.50	200	296	Horizontal	No limit
1	2310	44.79	54.72	9.93	74.00	19.28	200	345	Vertical	/
2	2389.262	58.19	68.26	10.07	74.00	5.74	200	345	Vertical	/
3	2390	54.45	64.52	10.07	74.00	9.48	200	345	Vertical	/
4	2412.6548	103.75	113.55	9.80	74.00	-39.55	200	345	Vertical	No limit

802.11g mode

Lowest Channel

Frequency 2412MHz

Environment: 20.2°C/56%RH/101.0kPa

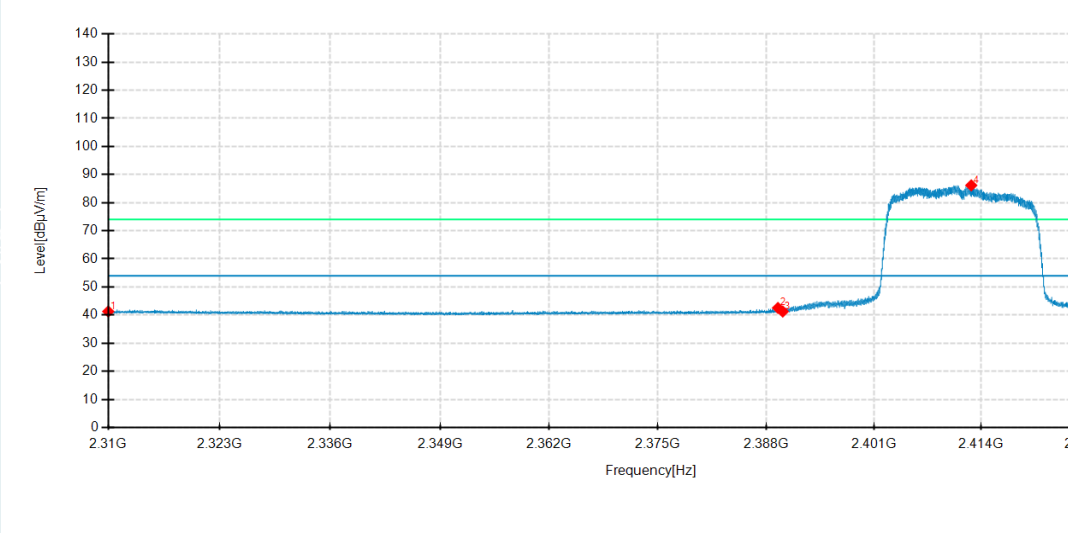
Tested By: Zhang zishan

Detector mode: Average

Voltage: AC120V/60Hz

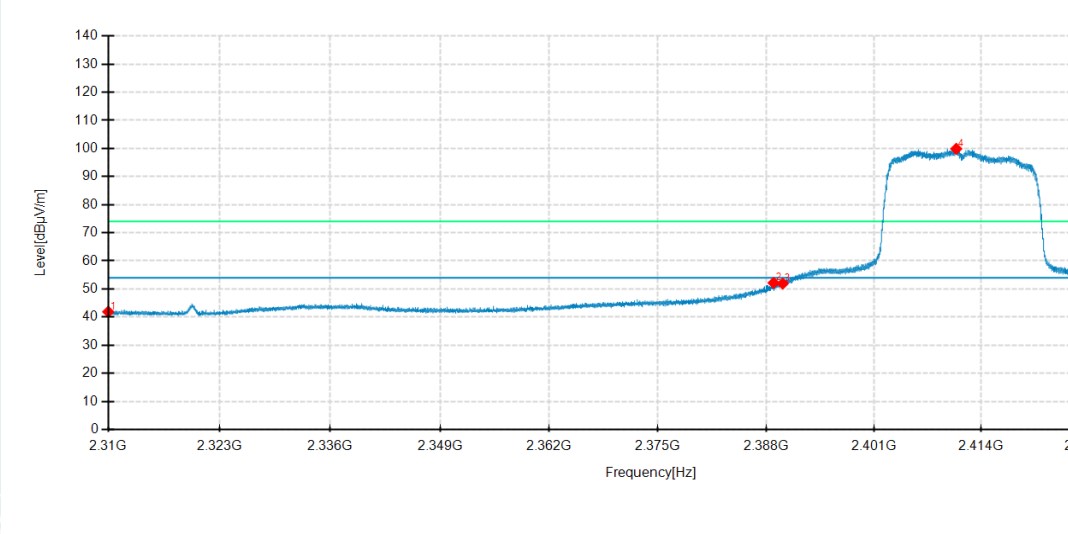
Date: 2023-04-08

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	31.92	41.27	9.35	54.00	12.73	200	104	Horizontal	/
2	2389.418	33.62	42.54	8.92	54.00	11.46	200	311	Horizontal	/
3	2390	32.33	41.26	8.93	54.00	12.74	200	28	Horizontal	/
4	2412.8455	77.08	86.16	9.08	54.00	-32.16	200	298	Horizontal	No limit
1	2310	31.95	41.88	9.93	54.00	12.12	200	332	Vertical	/
2	2388.8893	42.10	52.17	10.07	54.00	1.83	200	344	Vertical	/
3	2390	41.85	51.92	10.07	54.00	2.08	200	344	Vertical	/
4	2411.0167	90.04	99.88	9.84	54.00	-45.88	200	11	Vertical	No limit

802.11g mode

Highest Channel

Frequency 2462MHz

Environment: 20.2°C/56%RH/101.0kPa

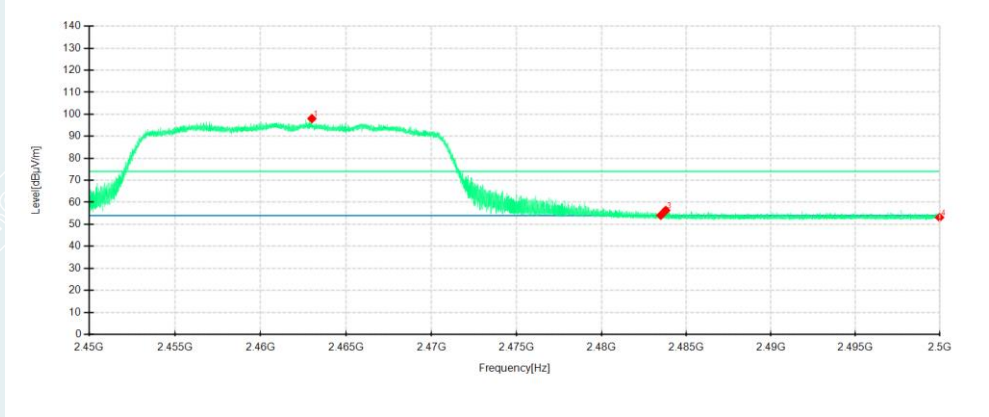
Tested By: Zhang zishan

Detector mode: Peak

Voltage: AC120V/60Hz

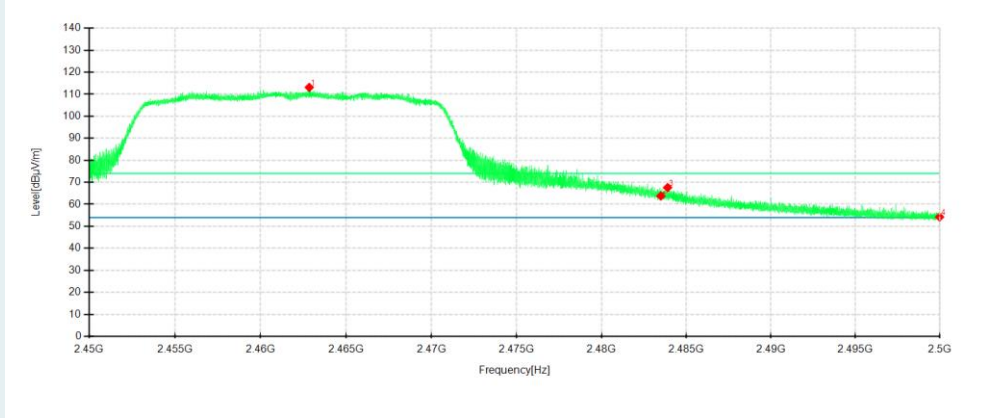
Date: 2023-04-08

Polarity: Horizontal



Detector mode: Peak

Polarity: Vertical

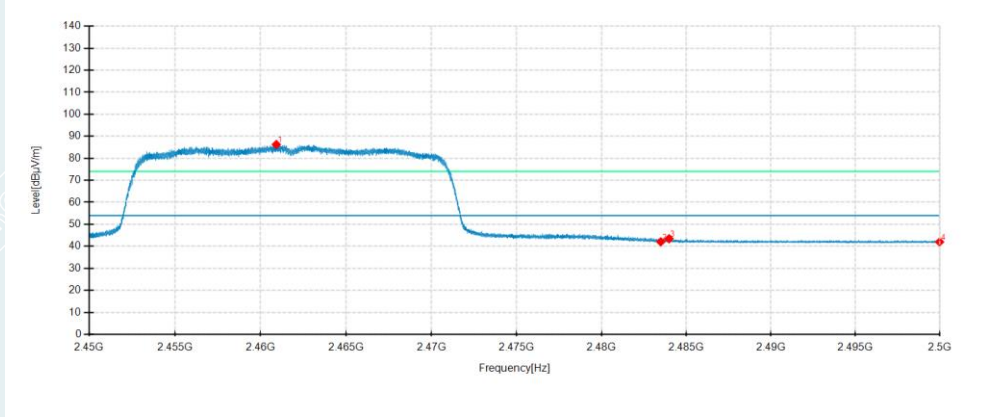


No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBuV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	2463.0009	88.52	98.02	9.50	74.00	-24.02	200	309	Horizontal	No limit
2	2483.5	44.16	54.08	9.92	74.00	19.92	100	57	Horizontal	/
3	2483.7889	46.38	56.30	9.92	74.00	17.70	200	76	Horizontal	/
4	2500	42.86	53.11	10.25	74.00	20.89	200	297	Horizontal	/
1	2462.8475	103.92	113.11	9.19	74.00	-39.11	200	344	Vertical	No limit
2	2483.5	54.49	63.77	9.28	74.00	10.23	200	344	Vertical	/
3	2483.9023	58.33	67.61	9.28	74.00	6.39	200	344	Vertical	/
4	2500	44.88	54.23	9.35	74.00	19.77	200	22	Vertical	/

802.11g mode
Highest Channel

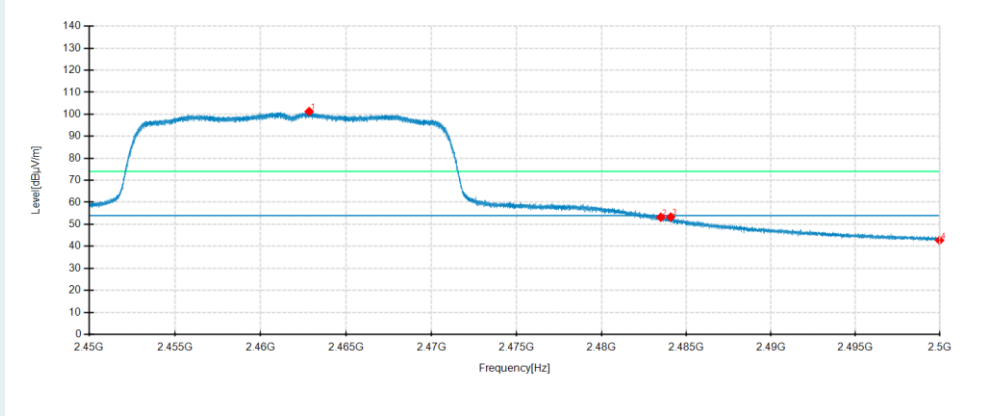
Frequency 2462MHz
Environment: 20.2°C/56%RH/101.0kPa
Tested By: Zhang zishan
Detector mode: Average

Voltage: AC120V/60Hz
Date: 2023-04-08
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	2460.9207	76.80	86.26	9.46	54.00	-32.26	200	310	Horizontal	No limit
2	2483.5	32.12	42.04	9.92	54.00	11.96	100	295	Horizontal	/
3	2483.9856	33.52	43.44	9.92	54.00	10.56	200	310	Horizontal	/
4	2500	31.75	42.00	10.25	54.00	12.00	100	246	Horizontal	/
1	2462.8409	92.08	101.27	9.19	54.00	-47.27	200	345	Vertical	No limit
2	2483.5	42.93	52.21	9.28	54.00	1.79	200	345	Vertical	/
3	2484.0823	43.02	52.30	9.28	54.00	1.70	200	345	Vertical	/
4	2500	33.37	42.72	9.35	54.00	11.28	200	2	Vertical	/

802.11n HT20 mode

Lowest Channel

Frequency 2412MHz

Environment: 20.2°C/56%RH/101.0kPa

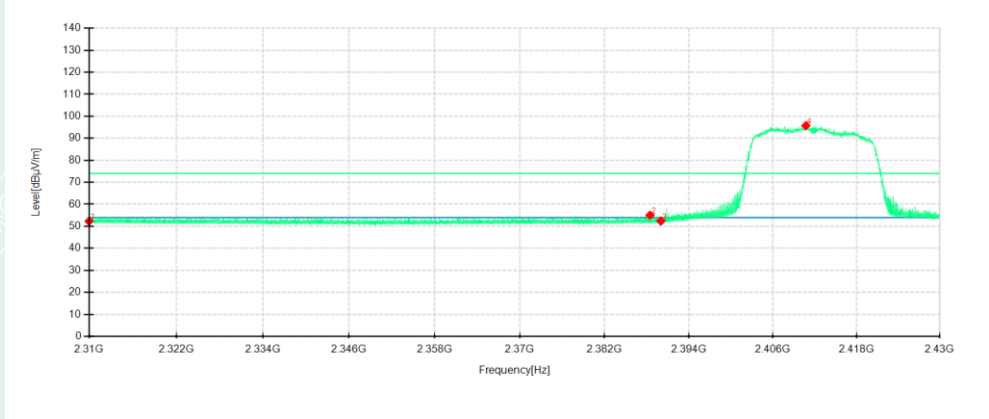
Tested By: Zhang zishan

Detector mode: Peak

Voltage: AC120V/60Hz

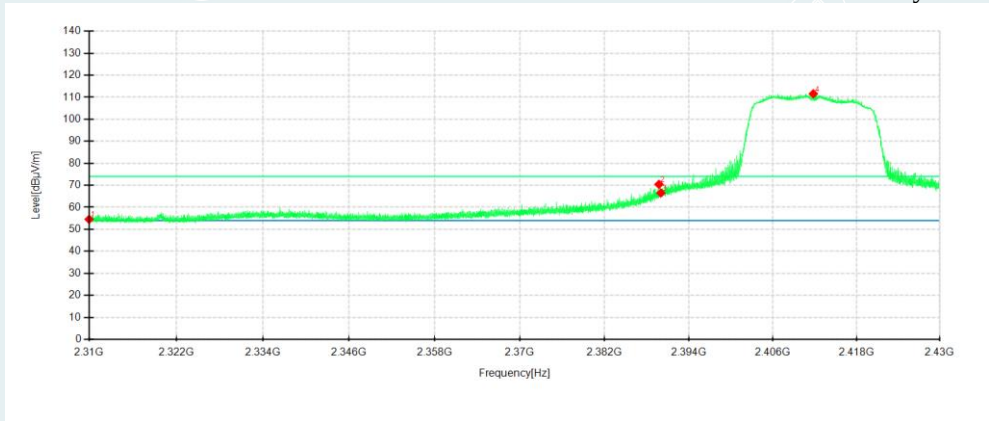
Date: 2023-04-08

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	42.95	52.30	9.35	74.00	21.70	200	110	Horizontal	/
2	2388.4612	46.12	55.03	8.91	74.00	18.97	200	296	Horizontal	/
3	2390	43.44	52.37	8.93	74.00	21.63	200	308	Horizontal	/
4	2410.7347	86.64	95.72	9.08	74.00	-21.72	200	296	Horizontal	No limit
1	2310	44.62	54.55	9.93	74.00	19.45	200	337	Vertical	/
2	2389.7333	60.37	70.44	10.07	74.00	3.56	200	359	Vertical	/
3	2390	56.42	66.49	10.07	74.00	7.51	200	16	Vertical	/
4	2411.7988	101.76	111.58	9.82	74.00	-37.58	200	16	Vertical	No limit

802.11n HT20 mode

Lowest Channel

Frequency 2412MHz

Environment: 20.2°C/56%RH/101.0kPa

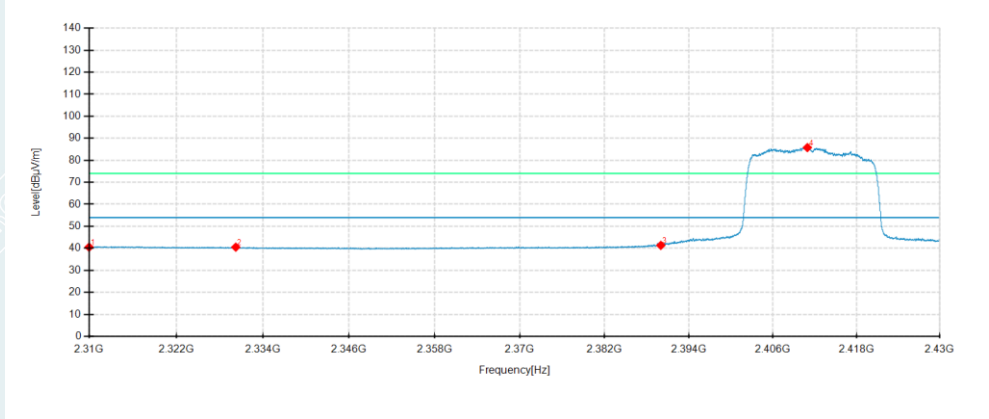
Tested By: Zhang zishan

Detector mode: Average

Voltage: AC120V/60Hz

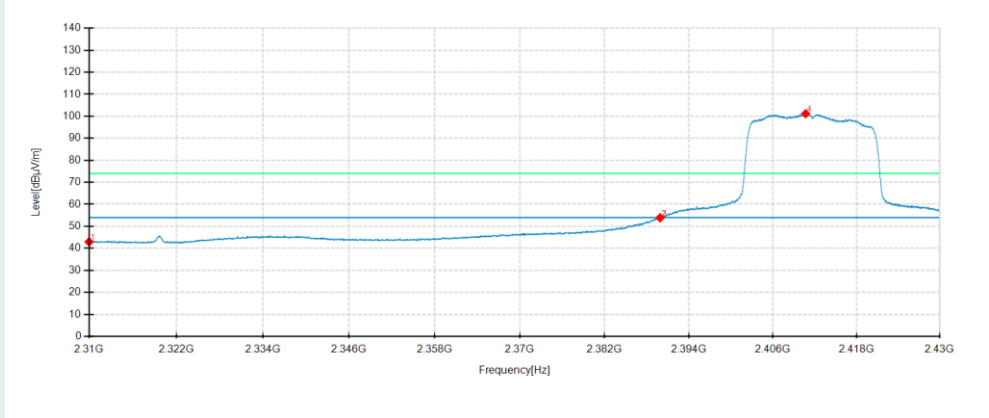
Date: 2023-04-08

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	31.17	40.52	9.35	54.00	13.48	200	12	Horizontal	/
2	2330.2654	31.60	40.53	8.93	54.00	13.47	200	172	Horizontal	/
3	2390	32.41	41.34	8.93	54.00	12.66	200	293	Horizontal	/
4	2410.9427	76.69	85.77	9.08	54.00	-31.77	200	293	Horizontal	No limit
1	2310	33.00	42.93	9.93	54.00	11.07	200	16	Vertical	/
2	2389.8853	42.80	52.87	10.07	54.00	1.13	200	16	Vertical	/
3	2390	42.77	52.84	10.07	54.00	1.16	200	16	Vertical	/
4	2410.6947	91.33	101.17	9.84	54.00	-47.17	200	16	Vertical	No limit

802.11n HT20 mode

Highest Channel

Frequency 2462MHz

Environment: 20.2°C/56%RH/101.0kPa

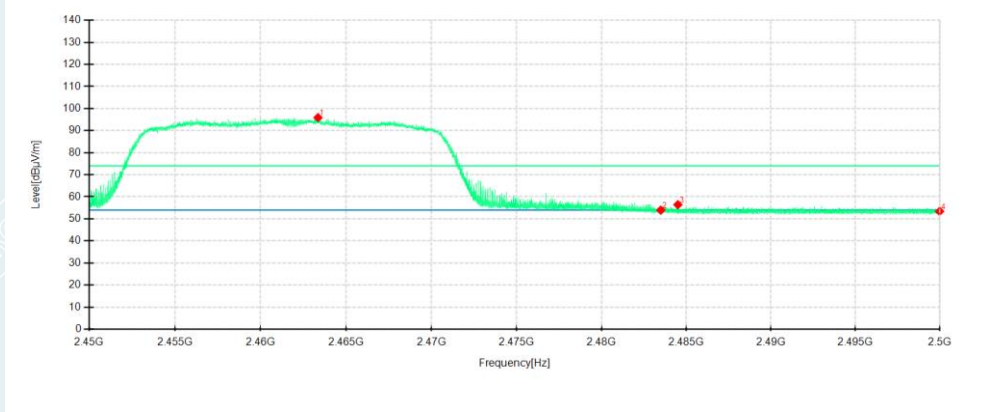
Tested By: Zhang zishan

Detector mode: Peak

Voltage: AC120V/60Hz

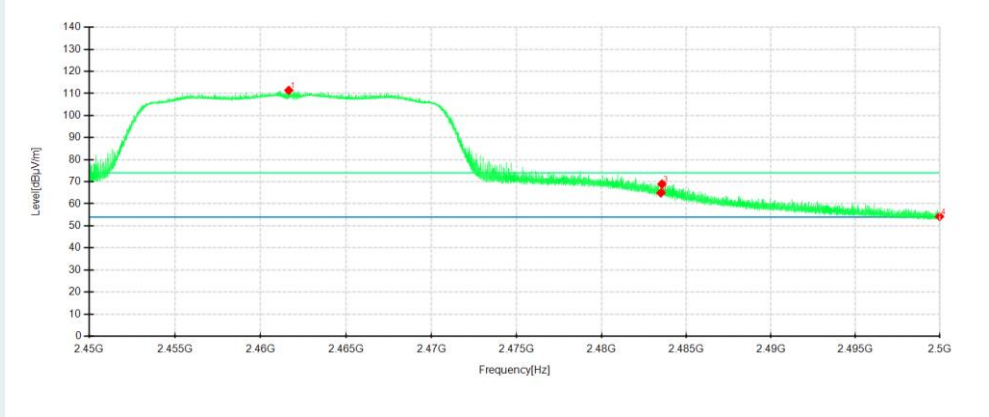
Date: 2023-04-08

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	2463.3576	86.38	95.89	9.51	74.00	-21.89	200	308	Horizontal	No limit
2	2483.5	44.02	53.94	9.92	74.00	20.06	200	76	Horizontal	/
3	2484.5056	46.47	56.40	9.93	74.00	17.60	200	39	Horizontal	/
4	2500	43.16	53.41	10.25	74.00	20.59	100	170	Horizontal	/
1	2461.6508	102.22	111.41	9.19	74.00	-37.41	200	14	Vertical	No limit
2	2483.5	55.64	64.92	9.28	74.00	9.08	200	14	Vertical	/
3	2483.5656	59.65	68.93	9.28	74.00	5.07	200	337	Vertical	/
4	2500	44.88	54.23	9.35	74.00	19.77	200	14	Vertical	/

802.11n HT20 mode

Highest Channel

Frequency 2462MHz

Environment: 20.2°C/56%RH/101.0kPa

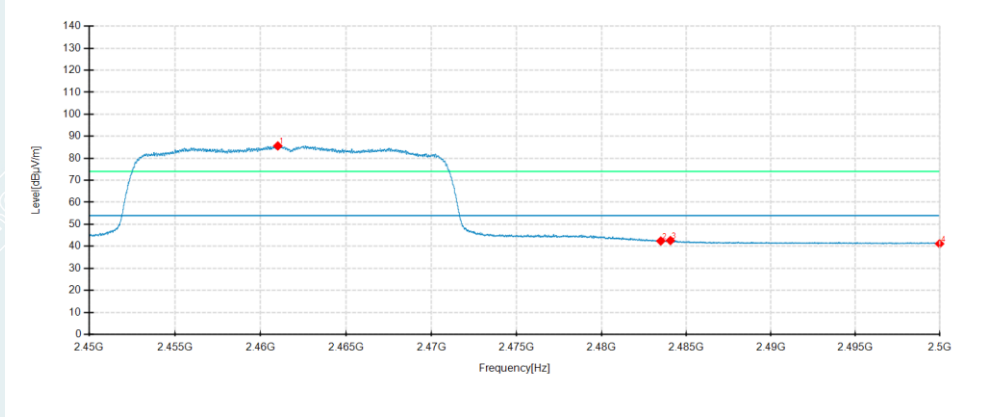
Tested By: Zhang zishan

Detector mode: Average

Voltage: AC120V/60Hz

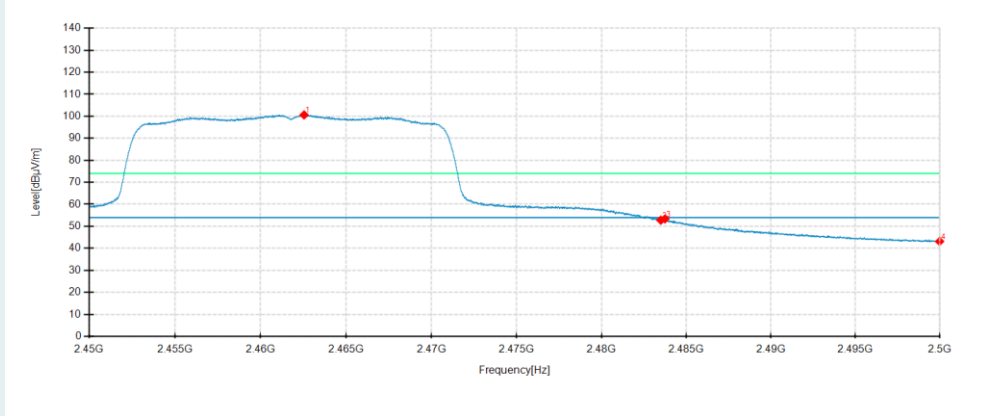
Date: 2023-04-08

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	2461.0074	76.14	85.61	9.47	54.00	-31.61	200	307	Horizontal	No limit
2	2483.5	32.49	42.41	9.92	54.00	11.59	200	295	Horizontal	/
3	2484.0656	32.71	42.64	9.93	54.00	11.36	200	37	Horizontal	/
4	2500	30.91	41.16	10.25	54.00	12.84	100	248	Horizontal	/
1	2462.5442	91.42	100.61	9.19	54.00	-46.61	200	16	Vertical	No limit
2	2483.5	43.53	52.81	9.28	54.00	1.19	200	16	Vertical	/
3	2483.7456	43.09	52.37	9.28	54.00	1.63	200	360	Vertical	/
4	2500	33.77	43.12	9.35	54.00	10.88	200	343	Vertical	/

APPENDIX A. PHOTOGRAPH OF THE TEST CONNECTION DIAGRAM

Please refer to the attached document E202303101204-7-Test photo.

APPENDIX B. PHOTOGRAPH OF THE EUT

Please refer to the attached document E202303101204-8-EUT photo.

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