

7.7. Radiated Restricted Band Edge Measurement

7.7.1. Test Limit

For 15.205 requirement:

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a) of FCC part 15, must also comply with the radiated emission limits specified in Section 15.209(a).

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	8.25 - 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 - 156.525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 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	(²)
13.36 - 13.41	--	--	--

¹ Until February 1, 1999, this restricted band shall be 0.490-0.510MHz.

² Above 38.6

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47CFR must not exceed the limits shown in Table per Section 15.209.

FCC Part 15 Subpart C Paragraph 15.209		
Frequency [MHz]	Field Strength [uV/m]	Measured Distance [Meters]
0.009 - 0.490	2400/F (kHz)	300
0.490 - 1.705	24000/F (kHz)	30
1.705 - 30	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

7.7.2. Test Procedure Used

ANSI C63.10 Section 6.3 (General Requirements)

ANSI C63.10 Section 6.6 (Standard test method above 1GHz)

7.7.3. Test Setting

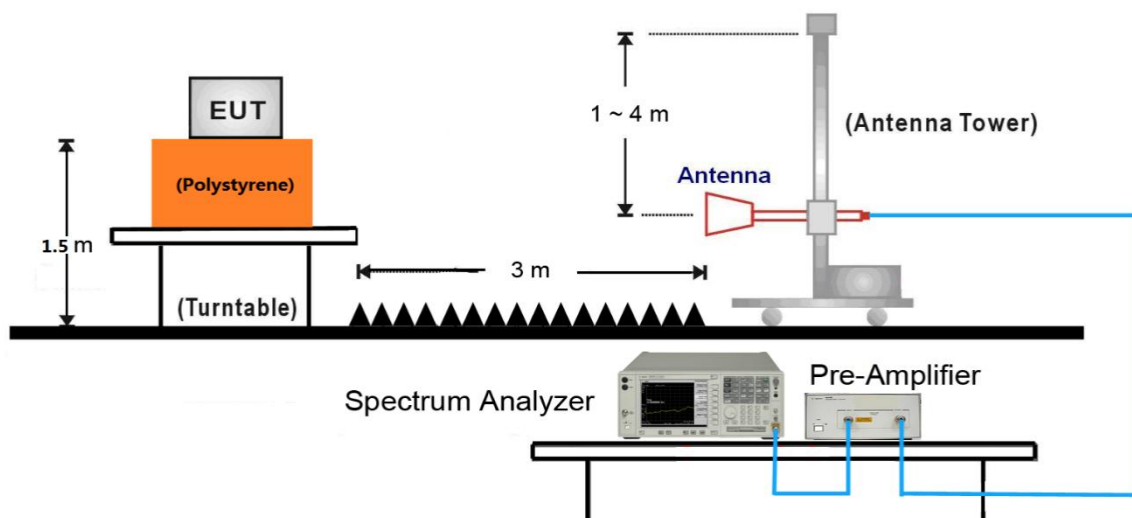
Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

Average Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = Power Average (RMS)
5. Number of sweep point = 2001 (Number of sweep points must be $\geq 2 \times \text{span} / \text{RBW}$)
6. Sweep time = auto
7. Trace (RMS) averaging was performed over at least 100 traces.

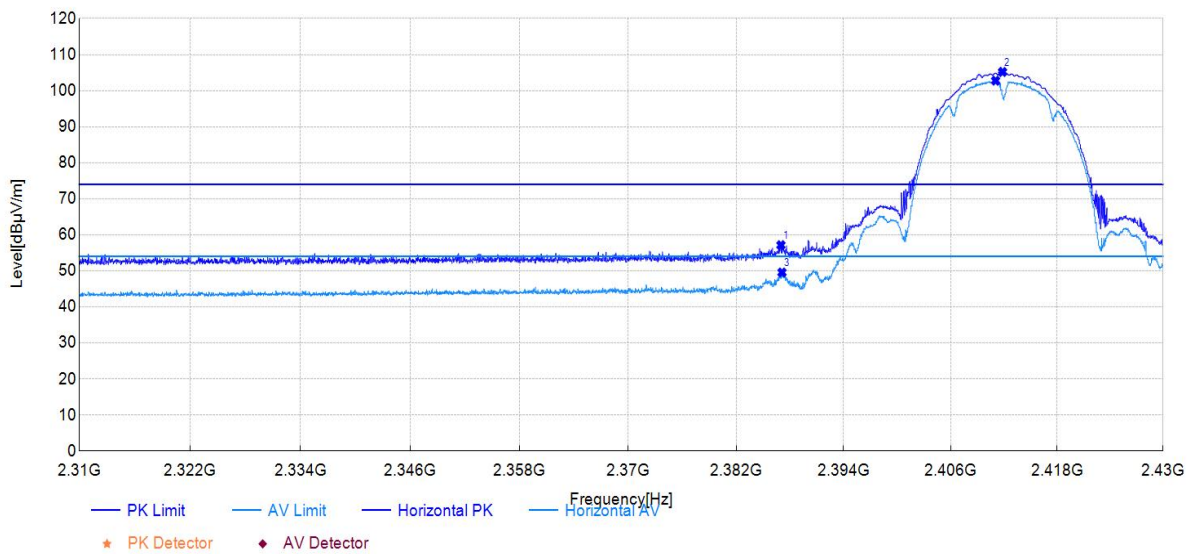
7.7.4. Test Setup



Note: This item was performed with the WIFI antenna connected.

7.7.5. Test Result

Project Information			
EUT:	Thermostat Hub W200	Model:	SRT-A06E
Test Date:	2025-09-16	Voltage:	AC 24V
Environment:	Temp: 21.4°C; Humi:55%	Engineer:	Stone Zhang
Remark:	Transmit by 802.11b at Channel 2412MHz		

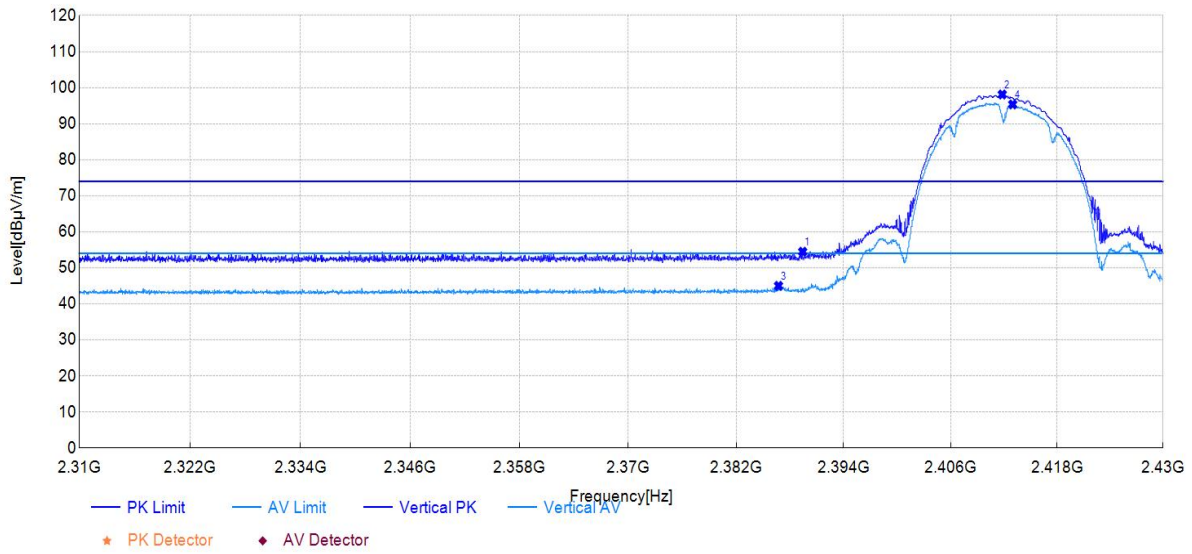


Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	2387.00	21.64	57.13	35.49	74.00	16.87	150	175	PK	Horizontal	PASS
2	2411.85	69.61	105.19	35.58	/	/	150	171	PK	Horizontal	PASS
3	2387.12	14.06	49.55	35.49	54.00	4.45	150	171	AV	Horizontal	PASS
4	2411.07	67.20	102.77	35.57	/	/	150	175	AV	Horizontal	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level



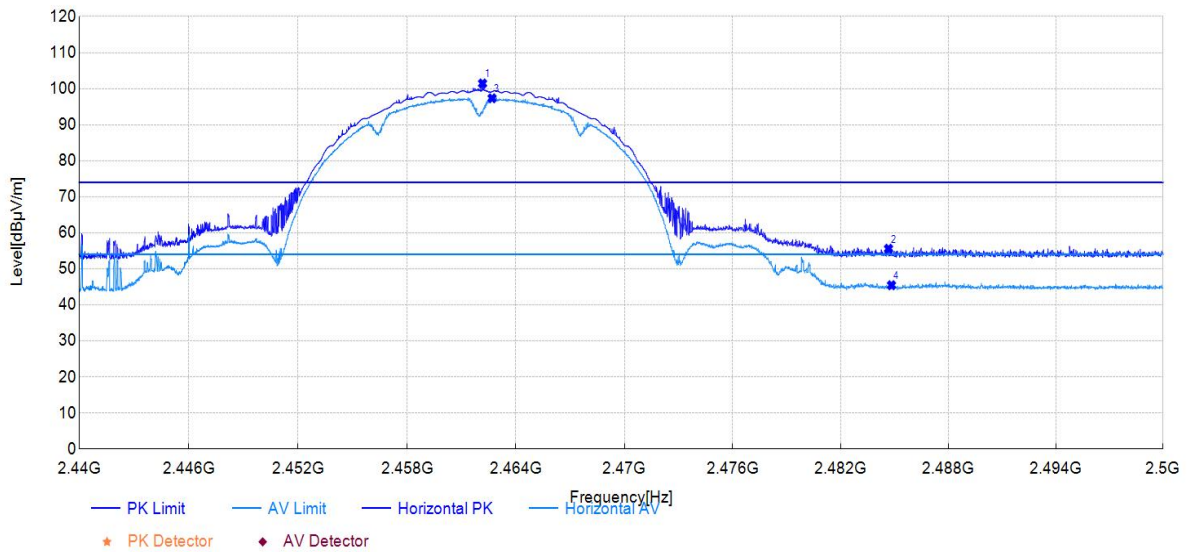
Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	2389.43	19.14	54.48	35.34	74.00	19.52	150	14	PK	Vertical	PASS
2	2411.82	62.71	98.11	35.40	/	/	150	260	PK	Vertical	PASS
3	2386.73	9.66	45.01	35.35	54.00	8.99	150	169	AV	Vertical	PASS
4	2412.99	59.94	95.35	35.41	/	/	150	260	AV	Vertical	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level

Project Information			
EUT:	Thermostat Hub W200	Model:	SRT-A06E
Test Date:	2025-09-16	Voltage:	AC 24V
Environment:	Temp: 21.4°C; Humi:55%	Engineer:	Stone Zhang
Remark:	Transmit by 802.11b at Channel 2462MHz		

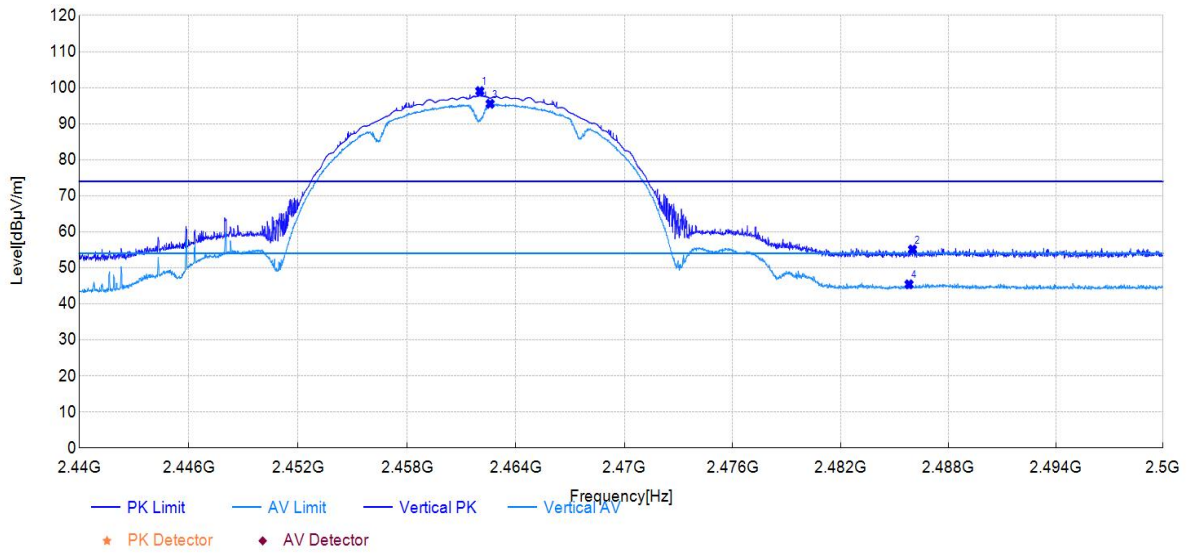


Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	2462.16	65.37	101.45	36.08	/	/	150	16	PK	Horizontal	PASS
2	2484.67	19.28	55.58	36.30	74.00	18.42	150	154	PK	Horizontal	PASS
3	2462.69	61.24	97.33	36.09	/	/	150	16	AV	Horizontal	PASS
4	2484.83	9.16	45.46	36.30	54.00	8.54	150	94	AV	Horizontal	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level



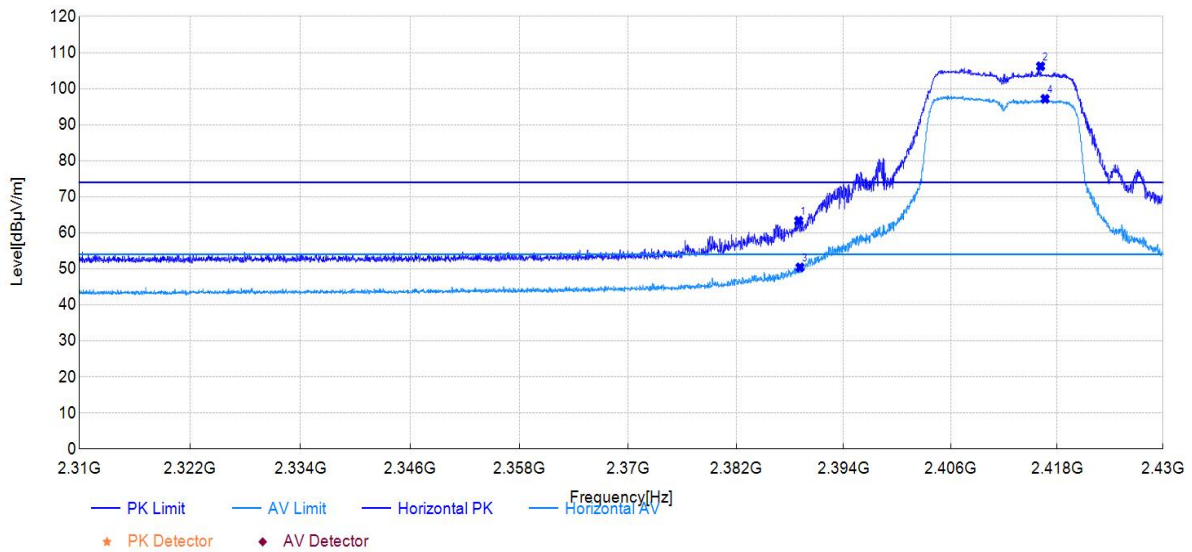
Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	2462.01	63.22	99.05	35.83	/	/	150	189	PK	Vertical	PASS
2	2486.00	19.07	55.11	36.04	74.00	18.89	150	6	PK	Vertical	PASS
3	2462.58	59.68	95.52	35.84	/	/	150	189	AV	Vertical	PASS
4	2485.81	9.39	45.43	36.04	54.00	8.57	150	178	AV	Vertical	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level

Project Information			
EUT:	Thermostat Hub W200	Model:	SRT-A06E
Test Date:	2025-09-16	Voltage:	AC 24V
Environment:	Temp: 21.4°C; Humi:55%	Engineer:	Stone Zhang
Remark:	Transmit by 802.11g at Channel 2412MHz		

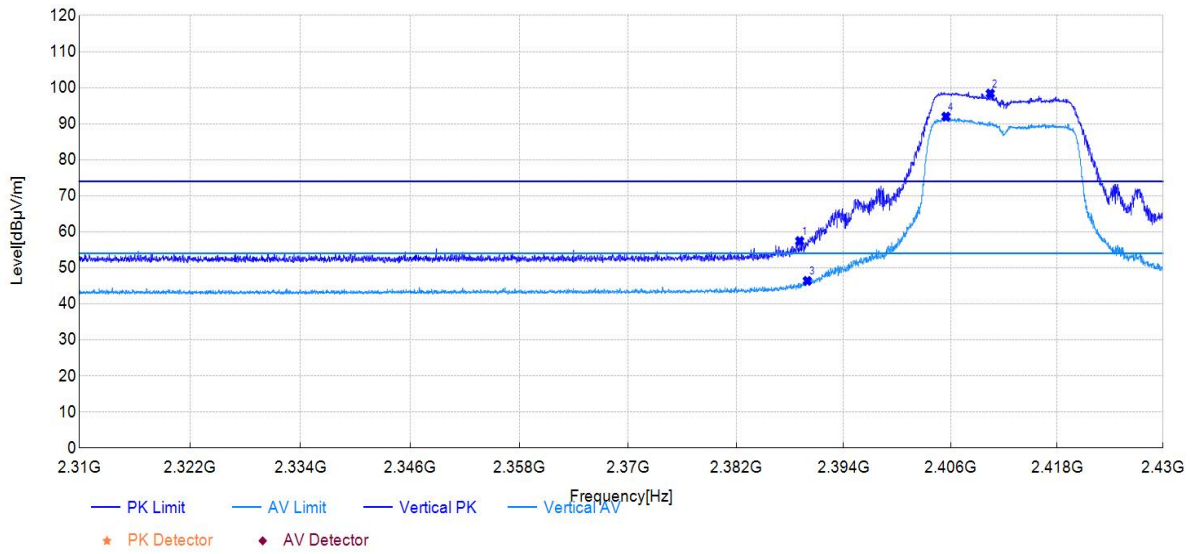


Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	2388.98	27.87	63.35	35.48	74.00	10.65	150	172	PK	Horizontal	PASS
2	2416.14	70.59	106.21	35.62	/	/	150	172	PK	Horizontal	PASS
3	2389.13	14.92	50.40	35.48	54.00	3.60	150	168	AV	Horizontal	PASS
4	2416.65	61.54	97.17	35.63	/	/	150	172	AV	Horizontal	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level



Suspected Data List

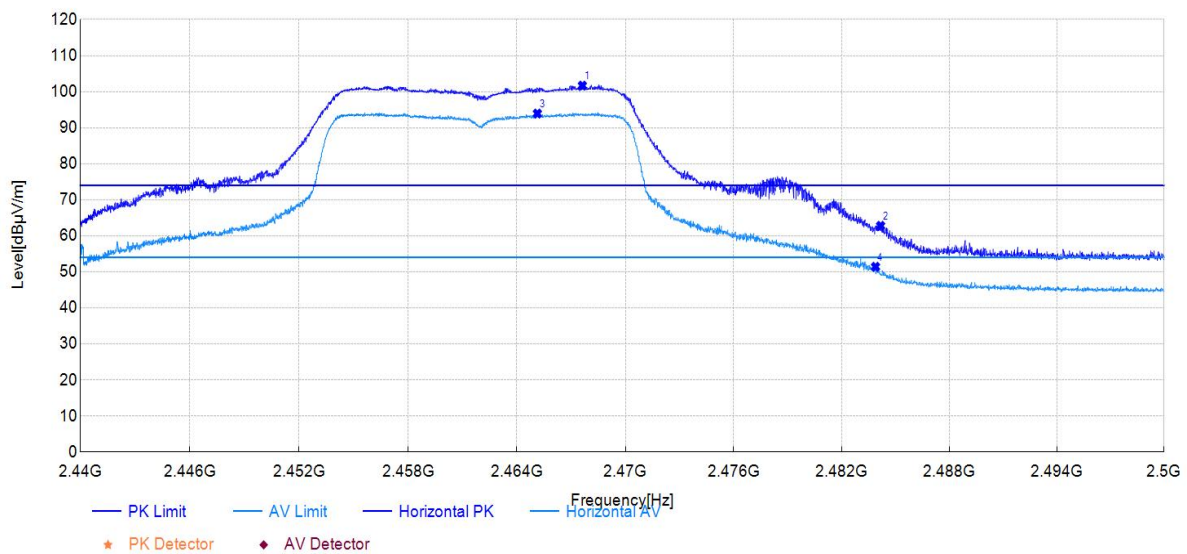
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	2389.10	22.09	57.43	35.34	74.00	16.57	150	217	PK	Vertical	PASS
2	2410.47	62.98	98.37	35.39	/	/	150	257	PK	Vertical	PASS
3	2389.94	11.04	46.38	35.34	54.00	7.62	150	254	AV	Vertical	PASS
4	2405.48	56.61	91.96	35.35	/	/	150	257	AV	Vertical	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level

Project Information			
EUT:	Thermostat Hub W200	Model:	SRT-A06E
Test Date:	2025-09-16	Voltage:	AC 24V
Environment:	Temp: 21.4°C; Humi:55%	Engineer:	Stone Zhang
Remark:	Transmit by 802.11g at Channel 2462MHz		

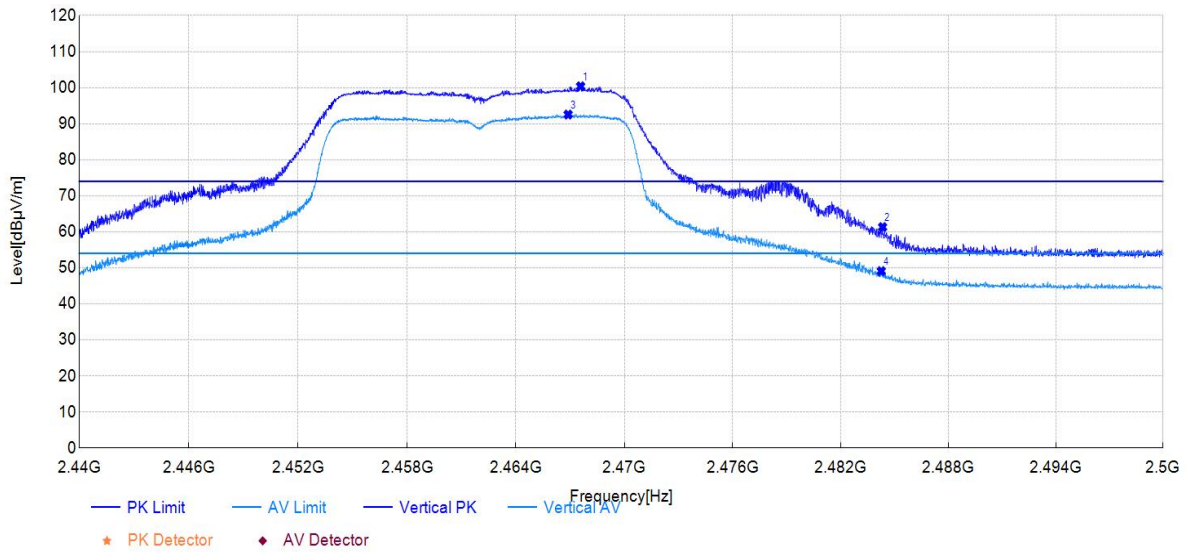


Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	2467.62	65.55	101.68	36.13	/	/	150	146	PK	Horizontal	PASS
2	2484.17	26.47	62.77	36.30	74.00	11.23	150	16	PK	Horizontal	PASS
3	2465.13	57.82	93.93	36.11	/	/	150	16	AV	Horizontal	PASS
4	2483.89	15.10	51.40	36.30	54.00	2.60	150	146	AV	Horizontal	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level



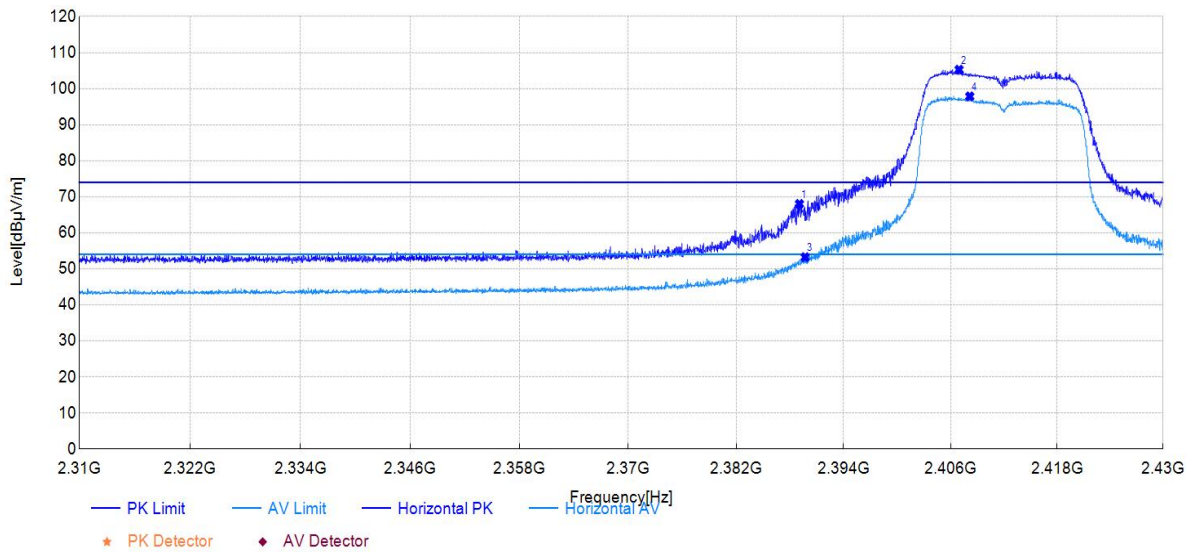
Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	2467.58	64.50	100.38	35.88	/	/	150	192	PK	Vertical	PASS
2	2484.34	25.29	61.31	36.02	74.00	12.69	150	217	PK	Vertical	PASS
3	2466.89	56.66	92.54	35.88	/	/	150	192	AV	Vertical	PASS
4	2484.26	13.08	49.10	36.02	54.00	4.90	150	213	AV	Vertical	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level

Project Information			
EUT:	Thermostat Hub W200	Model:	SRT-A06E
Test Date:	2025-09-16	Voltage:	AC 24V
Environment:	Temp: 21.4°C; Humi:55%	Engineer:	Stone Zhang
Remark:	Transmit by 802.11n-HT20 at Channel 2412MHz		

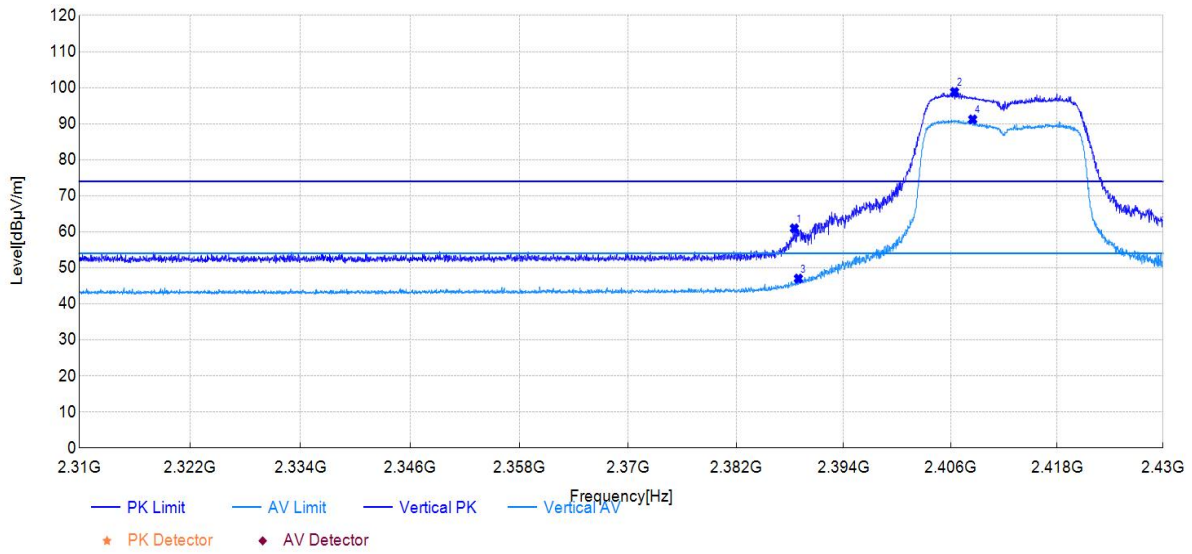


Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	2389.07	32.53	68.01	35.48	74.00	5.99	150	176	PK	Horizontal	PASS
2	2406.95	69.74	105.27	35.53	/	/	150	173	PK	Horizontal	PASS
3	2389.70	17.74	53.23	35.49	54.00	0.77	150	173	AV	Horizontal	PASS
4	2408.15	62.31	97.85	35.54	/	/	150	173	AV	Horizontal	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level



Suspected Data List

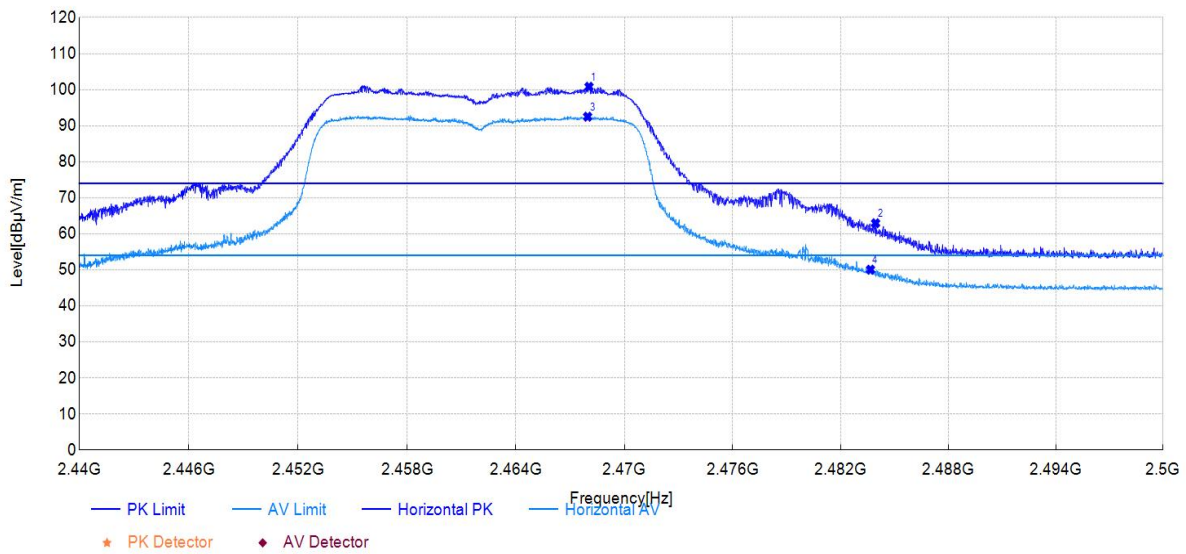
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	2388.50	25.62	60.96	35.34	74.00	13.04	150	175	PK	Vertical	PASS
2	2406.44	63.45	98.81	35.36	/	/	150	257	PK	Vertical	PASS
3	2388.95	11.69	47.03	35.34	54.00	6.97	150	221	AV	Vertical	PASS
4	2408.48	55.82	91.19	35.37	/	/	150	257	AV	Vertical	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level

Project Information			
EUT:	Thermostat Hub W200	Model:	SRT-A06E
Test Date:	2025-09-16	Voltage:	AC 24V
Environment:	Temp: 21.4°C; Humi:55%	Engineer:	Stone Zhang
Remark:	Transmit by 802.11n-HT20 at Channel 2462MHz		

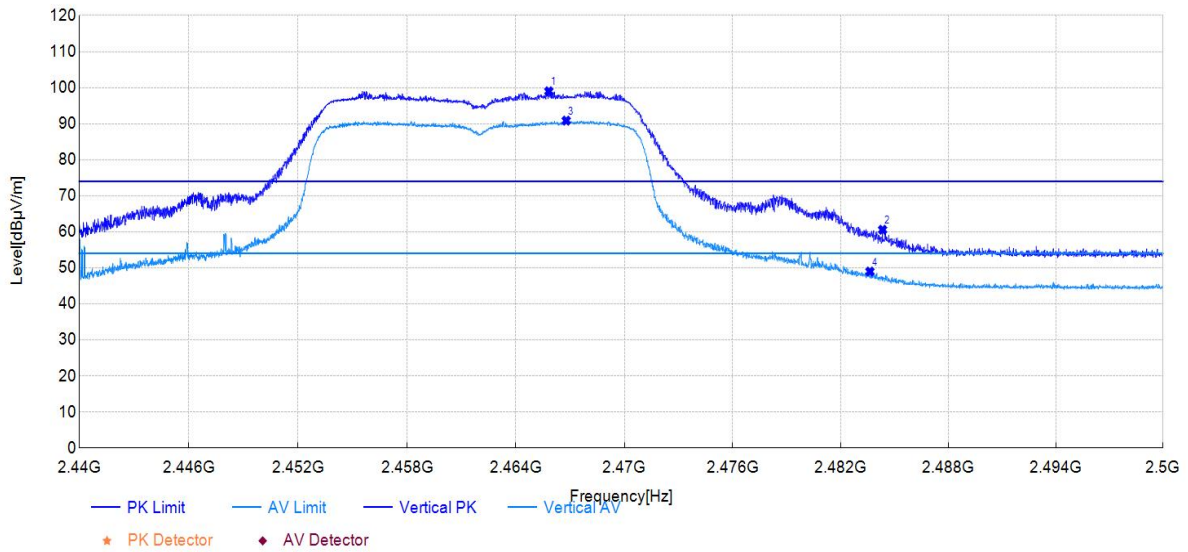


Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	2468.04	64.67	100.81	36.14	/	/	150	146	PK	Horizontal	PASS
2	2483.95	26.64	62.94	36.30	74.00	11.06	150	28	PK	Horizontal	PASS
3	2467.97	56.36	92.50	36.14	/	/	150	146	AV	Horizontal	PASS
4	2483.66	13.75	50.05	36.30	54.00	3.95	150	31	AV	Horizontal	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level



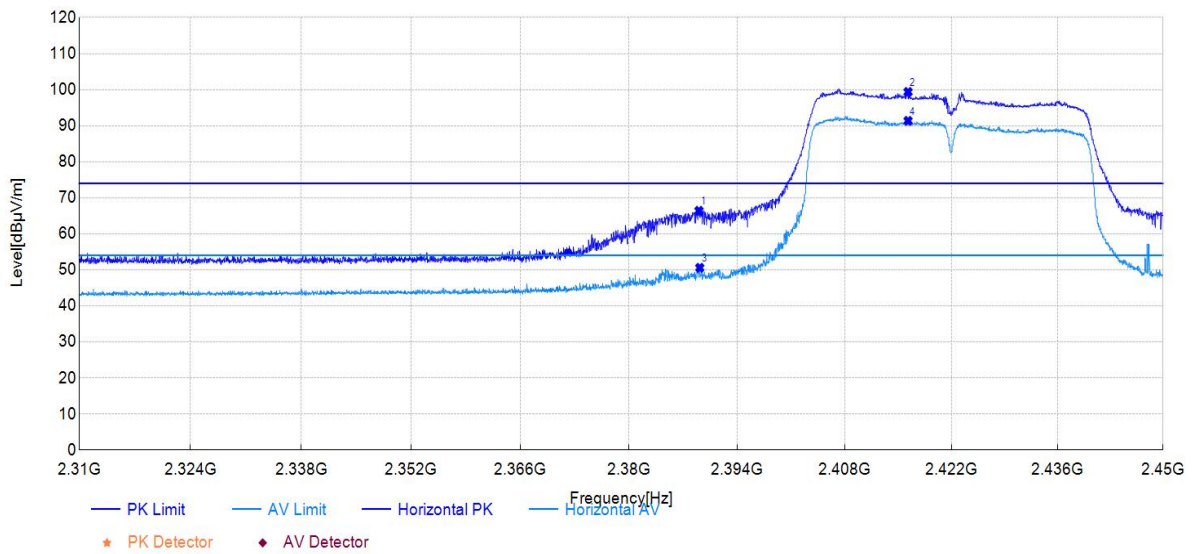
Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	2465.82	63.12	98.99	35.87	/	/	150	192	PK	Vertical	PASS
2	2484.34	24.55	60.57	36.02	74.00	13.43	150	213	PK	Vertical	PASS
3	2466.78	54.97	90.85	35.88	/	/	150	188	AV	Vertical	PASS
4	2483.63	12.95	48.97	36.02	54.00	5.03	150	210	AV	Vertical	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level

Project Information			
EUT:	Thermostat Hub W200	Model:	SRT-A06E
Test Date:	2025-09-16	Voltage:	AC 24V
Environment:	Temp: 21.4°C; Humi:55%	Engineer:	Stone Zhang
Remark:	Transmit by 802.11n-HT40 at Channel 2422MHz		

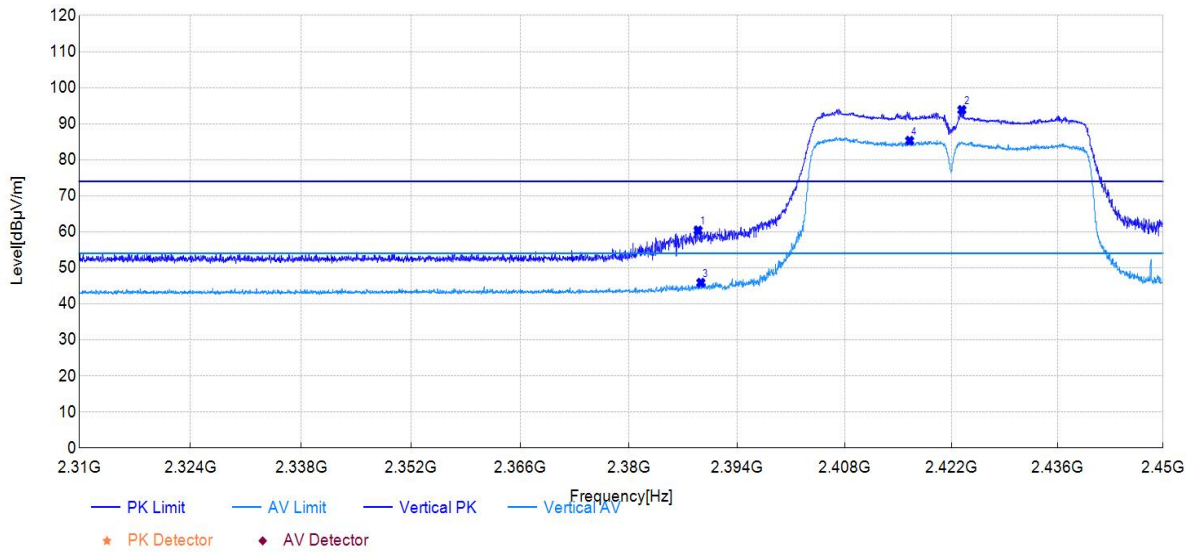


Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	2389.05	30.91	66.39	35.48	74.00	7.61	150	173	PK	Horizontal	PASS
2	2416.32	63.75	99.37	35.62	/	/	150	173	PK	Horizontal	PASS
3	2389.15	15.10	50.58	35.48	54.00	3.42	150	177	AV	Horizontal	PASS
4	2416.32	55.73	91.35	35.62	/	/	150	173	AV	Horizontal	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level



Suspected Data List

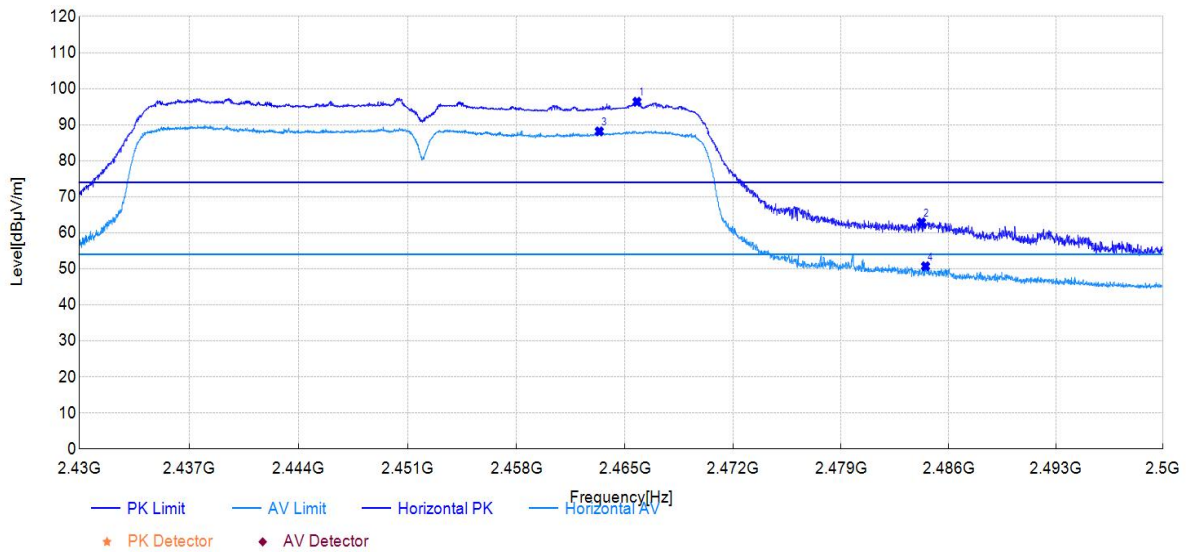
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	2388.94	25.04	60.38	35.34	74.00	13.62	150	220	PK	Vertical	PASS
2	2423.39	58.33	93.83	35.50	/	/	150	220	PK	Vertical	PASS
3	2389.29	10.53	45.87	35.34	54.00	8.13	150	209	AV	Vertical	PASS
4	2416.53	49.83	85.28	35.45	/	/	150	220	AV	Vertical	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level

Project Information			
EUT:	Thermostat Hub W200	Model:	SRT-A06E
Test Date:	2025-09-16	Voltage:	AC 24V
Environment:	Temp: 21.4°C; Humi:55%	Engineer:	Stone Zhang
Remark:	Transmit by 802.11n-HT40 at Channel 2452MHz		

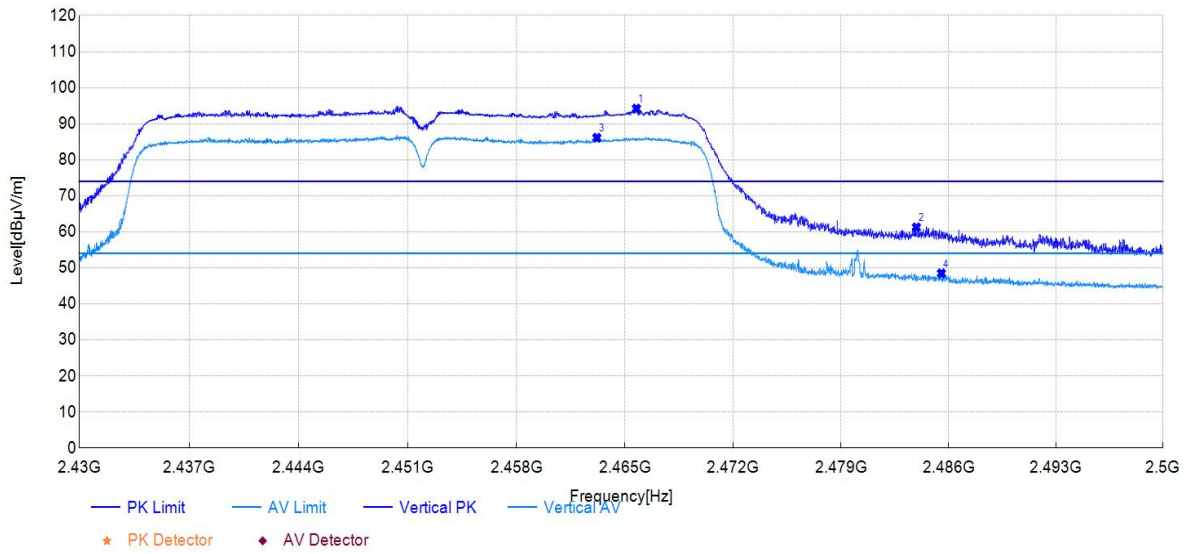


Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	2465.78	60.24	96.36	36.12	/	/	150	136	PK	Horizontal	PASS
2	2484.23	26.61	62.91	36.30	74.00	11.09	150	14	PK	Horizontal	PASS
3	2463.35	52.05	88.14	36.09	/	/	150	132	AV	Horizontal	PASS
4	2484.49	14.42	50.72	36.30	54.00	3.28	150	17	AV	Horizontal	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level



Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	2465.74	58.33	94.20	35.87	/	/	150	208	PK	Vertical	PASS
2	2483.90	25.22	61.24	36.02	74.00	12.76	150	212	PK	Vertical	PASS
3	2463.19	50.26	86.10	35.84	/	/	150	147	AV	Vertical	PASS
4	2485.52	12.44	48.48	36.04	54.00	5.52	150	194	AV	Vertical	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level

7.8. AC Conducted Emissions Measurement

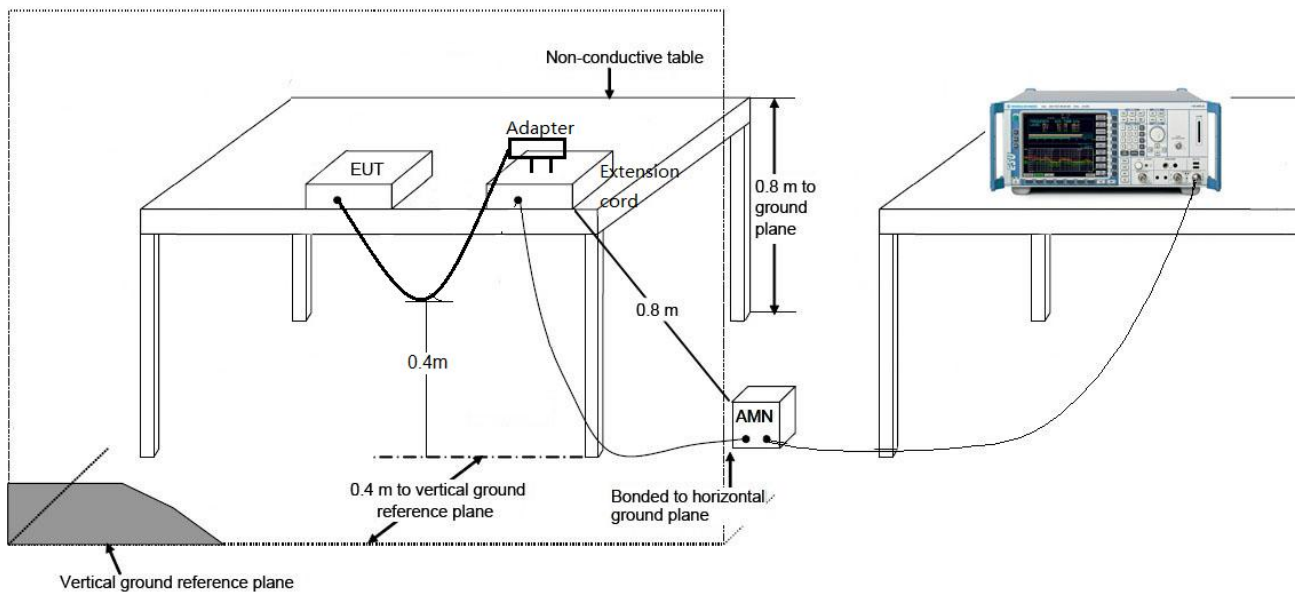
7.8.1. Test Limit

FCC Part 15 Subpart C Paragraph 15.207 Limits		
Frequency (MHz)	QP (dBuV)	AV (dBuV)
0.15 - 0.50	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30	60	50

Note 1: The lower limit shall apply at the transition frequencies.

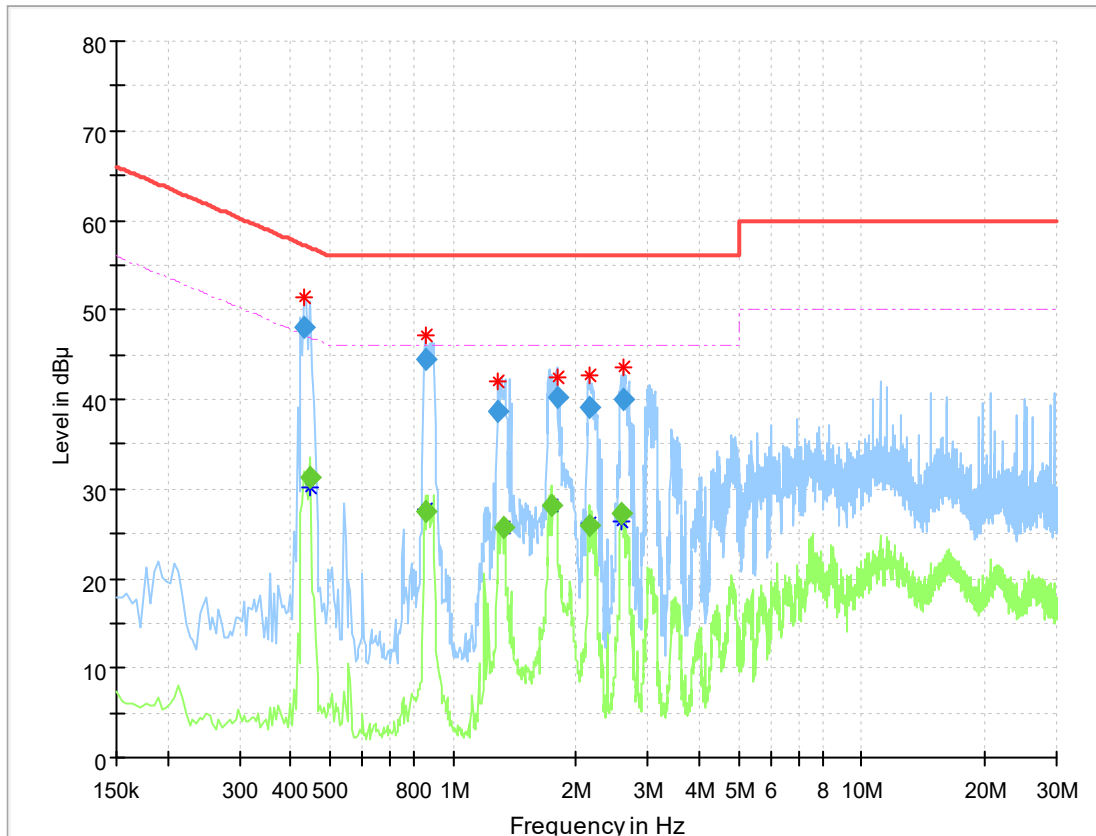
Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

7.8.2. Test Setup



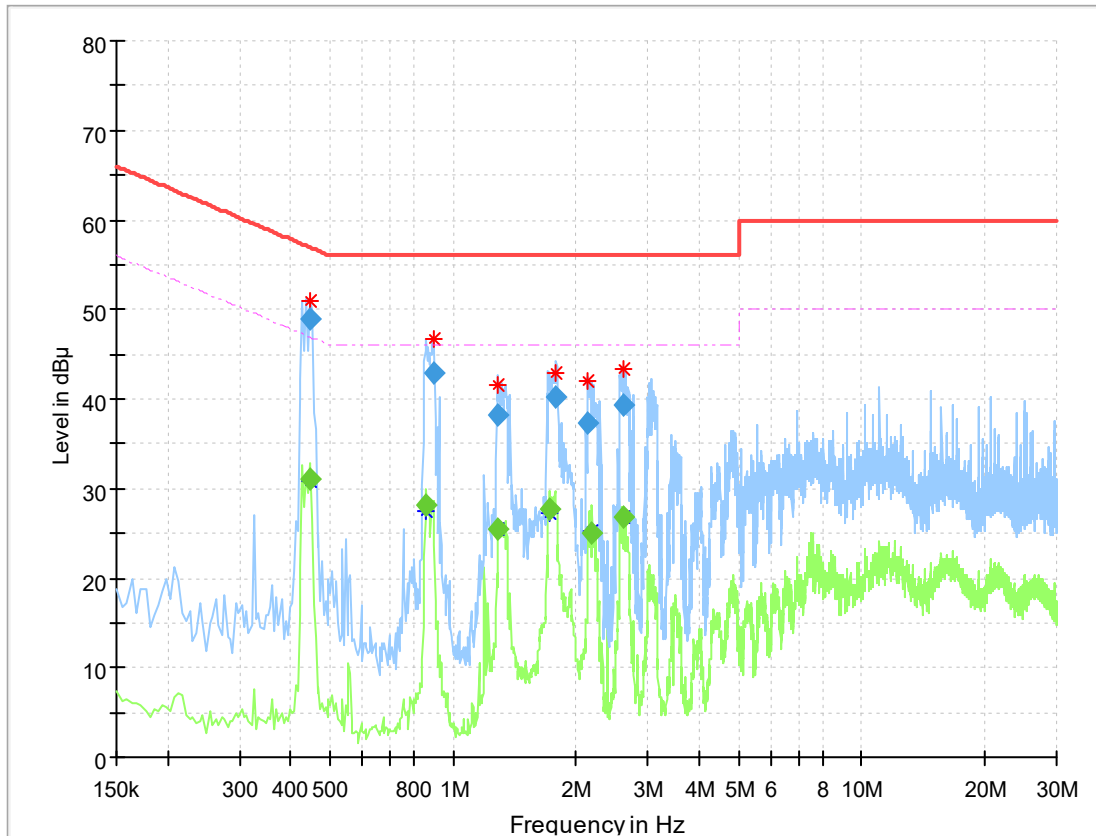
7.8.3. Test Result

EUT:	Thermostat Hub W200	Polarity:	LINE
Model:	SRT-A06E	Test Date:	2025-10-29
Mode:	802.11b-2412MHz	Voltage:	AC 24V
Environment:	Temp: 25.1°C; Humi:58%	Engineer:	Stone Zhang



Frequency (MHz)	QuasiPeak (dBuV)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.433500	48.03	---	57.19	9.15	100.0	9.000	L1	ON	9.6
0.447000	---	31.18	46.93	15.75	100.0	9.000	L1	ON	9.6
0.856500	---	27.40	46.00	18.60	100.0	9.000	L1	ON	9.6
0.856500	44.38	---	56.00	11.62	100.0	9.000	L1	ON	9.6
1.288500	38.59	---	56.00	17.41	100.0	9.000	L1	ON	9.6
1.333500	---	25.76	46.00	20.24	100.0	9.000	L1	ON	9.6
1.734000	---	28.08	46.00	17.92	100.0	9.000	L1	ON	9.6
1.792500	40.15	---	56.00	15.85	100.0	9.000	L1	ON	9.6
2.152500	39.00	---	56.00	17.00	100.0	9.000	L1	ON	9.6
2.157000	---	25.98	46.00	20.02	100.0	9.000	L1	ON	9.6
2.593500	---	27.29	46.00	18.71	100.0	9.000	L1	ON	9.6
2.620500	39.91	---	56.00	16.09	100.0	9.000	L1	ON	9.6

EUT:	Thermostat Hub W200	Polarity:	NEUTRAL
Model:	SRT-A06E	Test Date:	2025-10-29
Mode:	802.11b-2412MHz	Voltage:	AC 24V
Environment:	Temp: 25.1°C; Humi:58%	Engineer:	Stone Zhang



Frequency (MHz)	QuasiPeak (dBuV)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.447000	---	30.99	46.93	15.94	100.0	9.000	N	ON	9.6
0.447000	48.89	---	56.93	8.04	100.0	9.000	N	ON	9.6
0.861000	---	28.13	46.00	17.87	100.0	9.000	N	ON	9.6
0.892500	42.97	---	56.00	13.03	100.0	9.000	N	ON	9.6
1.293000	---	25.58	46.00	20.42	100.0	9.000	N	ON	9.6
1.293000	38.19	---	56.00	17.81	100.0	9.000	N	ON	9.6
1.720500	---	27.67	46.00	18.33	100.0	9.000	N	ON	9.6
1.788000	40.21	---	56.00	15.79	100.0	9.000	N	ON	9.6
2.139000	37.33	---	56.00	18.67	100.0	9.000	N	ON	9.6
2.193000	---	25.02	46.00	20.98	100.0	9.000	N	ON	9.6
2.616000	---	26.81	46.00	19.19	100.0	9.000	N	ON	9.6
2.616000	39.24	---	56.00	16.76	100.0	9.000	N	ON	9.6

8. Conclusion

The data collected relate only the item(s) tested and show that the **Thermostat Hub W200 (Model: SRT-A06E)** is compliance with Part 15C of the FCC Rules.

Statement

1. This report is invalid for the following states: without the special inspection and testing stamp or the official stamp of our institution; without the signature of the report authorized officer; if the report is altered.
2. It is forbidden to copy partial contents of the report except in full without the approval of our institution.
3. The client shall provide the test sample(s) and commission information and be responsible for their authenticity.
4. The report content is only applicable to the tested sample(s) this time.
5. If there are any objections to the report content, please submit them to our company in writing within 15 days from the date of receiving the report.
6. If the reports include both Chinese and English versions, when there are any inconsistencies caused by language, the Chinese version shall prevail.
7. This report is issued by the following laboratory premises:

No.8 Ningyun Rd., Xinwu District Wuxi, Jiangsu 214000 China

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