

EUROFINS ELECTRICAL TESTING SERVICE (SHENZHEN) CO., LTD.

RADIO TEST - REPORT

FCC & ISED Compliance Test Report for

Product name: Wireless Thermostat

Model name: PUCK-2.0

FCC ID: 2AK78PUCK2

IC: 22464-PUCK2

Test Report Number: EFGX26030390-IE-02-E01

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1 General Information

1.1 Notes

The results of this test report relate exclusively to the item tested as specified in chapter "Description of test item" and are not transferable to any other test items.

Eurofins Electrical Testing Service (Shenzhen) Co., Ltd. is not responsible for any generalisations and conclusions drawn from this report. Any modification of the test item can lead to invalidity of test results and this test report may therefore be not applicable to the modified test item.

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Operator

2026-04-30

Bruce Zheng / Project Engineer



Date	Eurofins-Lab.	Name / Title	Signature
2026-04-30		Bruce Zheng / Project Engineer	

Technical responsibility for area of testing:

2026-04-30

Albert Xu / EMC Manager



Date	Eurofins-Lab.	Name / Title	Signature
2026-04-30		Albert Xu / EMC Manager	

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Eurofins Electrical Testing Service (Shenzhen) Co., Ltd.
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Dabao Road, Bao'an District Shenzhen, Guangdong, People's Republic of China

1.2 Testing laboratory

Eurofins Electrical Testing Service (Shenzhen) Co., Ltd.

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The Laboratory has passed the Accreditation by the American Association for Laboratory Accreditation (A2LA). The Accreditation number is 5376.01.

The Laboratory has been listed by industry Canada to perform electromagnetic emission measurements, The CAB identifier is CN0088.

1.3 Details of applicant

Name : Standard Euler, Inc.
Address : 479 Jessie St, San Francisco, CA 94103

1.4 Details of manufacturer

Name : Standard Euler, Inc.
Address : 479 Jessie St, San Francisco, CA 94103

1.5 Application details

Date of receipt of application : 2026-03-18
Date of receipt of test item : 2026-03-18
Date of test : 2026-03-18 to 2026-04-30
Date of issue : 2026-04-30

1.6 Test item

Product type : Wireless Thermostat
Model name : PUCK-2.0
Brand name : FLAIR
Technical Description : Power Input: USB (5V); Battery (3.0V); POGO Pin Power Supply (5V)
Input Voltage: 3V / 5V
Input Current: Max 1A
Sample Code : 260320-12-002

RadioTechnical data

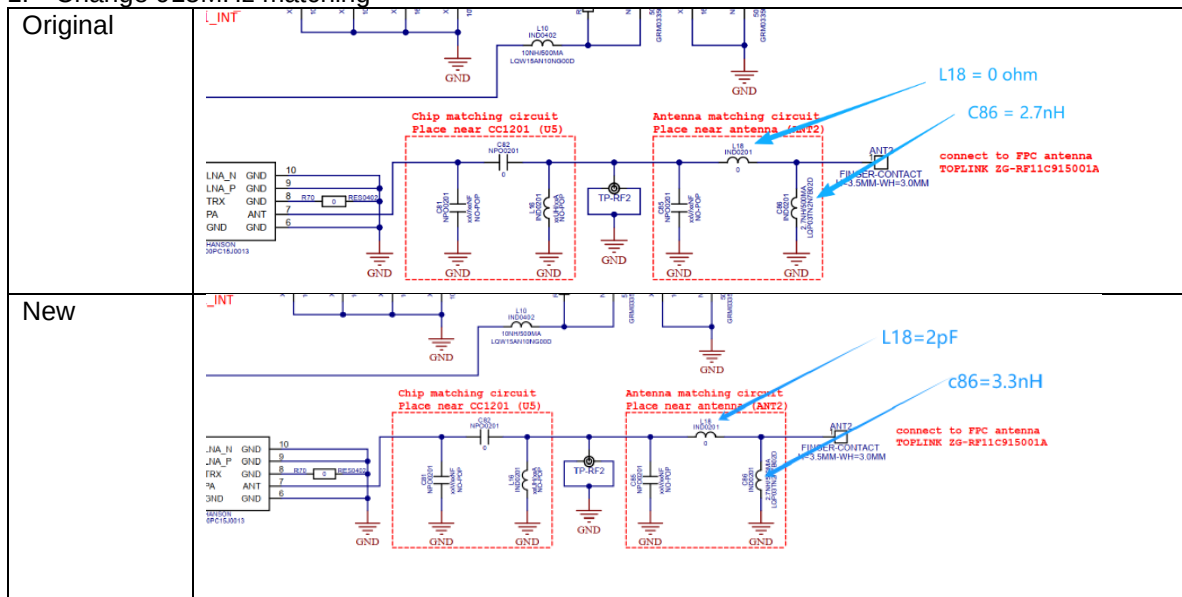
Fundamental frequency : 902-928 MHz
Modulation : 2-GFSK
MaxGain : -3.28 dBi

This report is prepared for FCC/ISED class II permissive change.

This report is issued as a supplementary report to original report no. EFGX25100120-IE-02-E01 (FCC ID: 2AK78PUCK2, IC: 22464-PUCK2, Model: PUCK-2.0). The modification is only concerned with following item:

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1. Change 915MHz matching



In this report, radiated emission tests of PUCK-2.0 had been re-tested and only its data was recorded in the following sections.

(General disclaimer:

The above sample(s) and sample information was/were submitted and identified on behalf of the applicant.

Eurofins assures objectivity and impartiality of the test, and fulfills the obligation of confidentiality for applicant's commercial information and technical documents.)

1.7 Test standards

FCC Part 15 Subpart C	PART 15 - RADIO FREQUENCY DEVICES Subpart C - Intentional Radiators
RSS-210	Licence-Exempt Radio Apparatus: Category I Equipment
RSS-GEN	RSS-Gen — General Requirements for Compliance of Radio Apparatus

2 Technical Test

2.1 Summary of test results

No deviations from the technical specification(s) were ascertained in the course of the tests performed.



or

The deviations as specified were ascertained in the course of the tests performed.



2.2 Test environment

Radiated

Atmospheric Pressure	Temperature °C	Relative Humidity
102.0 kPa	25.0	69.8%

2.3 Measurement uncertainty

The uncertainty is calculated using the methods suggested in the "Guide to the Expression of Uncertainty in Measurement" (GUM) published by ISO.

System Measurement Uncertainty	
Test Items	Extended Uncertainty
Uncertainty in conducted measurements	1.96dB
Uncertainty for Conducted RF test	RF Power Conducted: 1.16dB Frequency test involved: 1.05×10 ⁻⁷ or 1%
Uncertainty for Radiated Emission 9KHz-30MHz	4.56dB
Uncertainty for Radiated Spurious Emission 30MHz-1000MHz	Horizontal: 4.46dB; Vertical: 4.54dB;
Uncertainty for Radiated Spurious Emission 1000MHz-18000MHz	Horizontal: 4.42dB; Vertical: 4.41dB;
Uncertainty for Radiated Spurious Emission 18000MHz-40000MHz	Horizontal: 4.63dB; Vertical: 4.62dB;

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2.4 Test equipment utilized

EQUIPMENT ID	EQUIPMENT NAME	MODEL NO.	CAL. DUE DATE
23-2-13-05	EMI Test Receiver	ESR3	2027-03-20
23-2-13-06	LISN	NNLK 8127 RC	2027-03-20
23-2-10-16	Attenuator	VTSD 9561-F	2027-03-20
23-2-13-12	Signal Analyzer	N9010B-544	2027-03-20
23-2-13-13	BT/WLAN Tester	CMW270	2027-03-20
23-2-13-14	Signal Generator	N5183B-520	2027-03-20
23-2-13-15	Vector Signal Generator	N5182B-506	2027-03-20
23-2-10-44	DC power supply	E3642A	2027-03-20
23-2-10-45	Temperature test chamber	SG-80-CC-2	2027-03-20
23-2-13-01	EMI Test Receiver	ESR7	2027-03-20
23-2-13-02	Signal Analyzer	N9020B-544	2027-03-20
23-2-12-01	Active Loop Antenna	FMZB 1519B	2026-08-16
23-2-12-02	TRILOG Broadband Antenna	VULB9168	2026-09-11
23-2-12-03	Horn Antenna	3117	2026-08-23
23-2-12-04	Horn Antenna	BBHA 9170	2026-08-16
23-2-10-01	Preamplifier	BBV9745	2027-03-20
23-2-10-02	Preamplifier	TAP01018048	2027-03-20
23-2-10-03	Preamplifier	TAP18040048	2027-03-20
23-2-10-14	Switch and Control Unit	ERIT-E-JS0806-SF1	N/A
23-2-13-03	EMI Test Receiver	ESR7	2027-03-20
23-2-13-04	Signal Analyzer	N9020B-526	2027-03-20
23-2-12-06	Active Loop Antenna	FMZB 1519B	2026-08-16
23-2-12-07	TRILOG Broadband Antenna	VULB9168	2026-09-03
23-2-12-08	Horn Antenna	3117	2026-08-16
23-2-10-46	Preamplifier	BBV9745	2027-03-20
23-2-10-47	Preamplifier	TAP01018048	2027-03-20
23-2-10-15	Switch and Control Unit	ERIT-E-JS0806-SF1	N/A

2.5 Auxiliary equipment used during test

N/A

2.6 Test mode

Measure using fixed-frequency mode.

Channel	Frequency (MHz)
0	915

2.7 Test software information

N/A

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2.8 Test results

☒ 1st test

☐ test after modification

☐ production test

FCC rule section(s)	ISED rule section(s)		Test Result	Verdict
§15.249 (a)&(d)	RSS-210 B.10 (b)	Radiated emissions	Appendix A	Pass
§15.203	RSS-GEN 6.8	Antenna requirement	See note 1	Pass

Note 1: The EUT incorporates an embedded, non-removable FPC-based Planar Inverted-F Antenna (PIFA) with a maximum gain of -3.28 dBi. This design satisfies FCC §15.203 (prohibiting user-replaceable antennas) and ISED RSS-GEN Section 6.8 (antenna gain $\leq$ 6 dBi).

3 Test Requirements

3.1 Radiated emissions

3.1.1 Limits

Fundamental frequency (MHz)	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (microvolts/meter)
902-928	50	500
2400-2483.5	50	500
5725-5875	50	500
24000-24250	250	500

Field strength limits are specified at a distance of 3 meters.

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the emission limits in the following table, whichever requires the lesser attenuation.

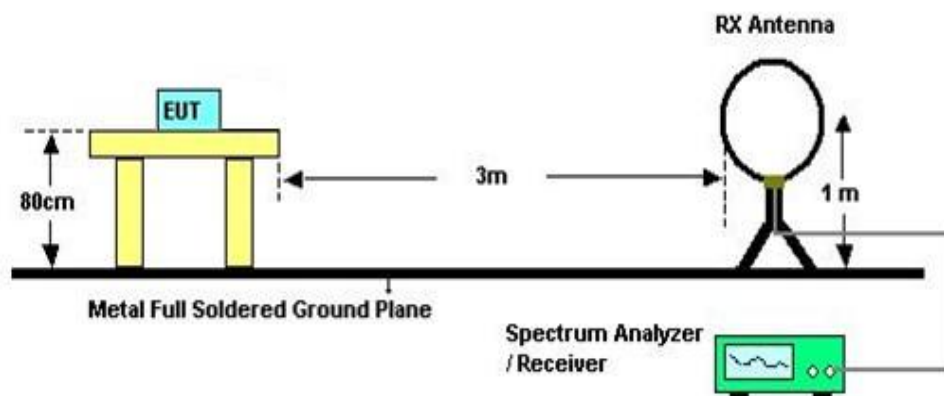
Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

3.1.2 Measurement procedure

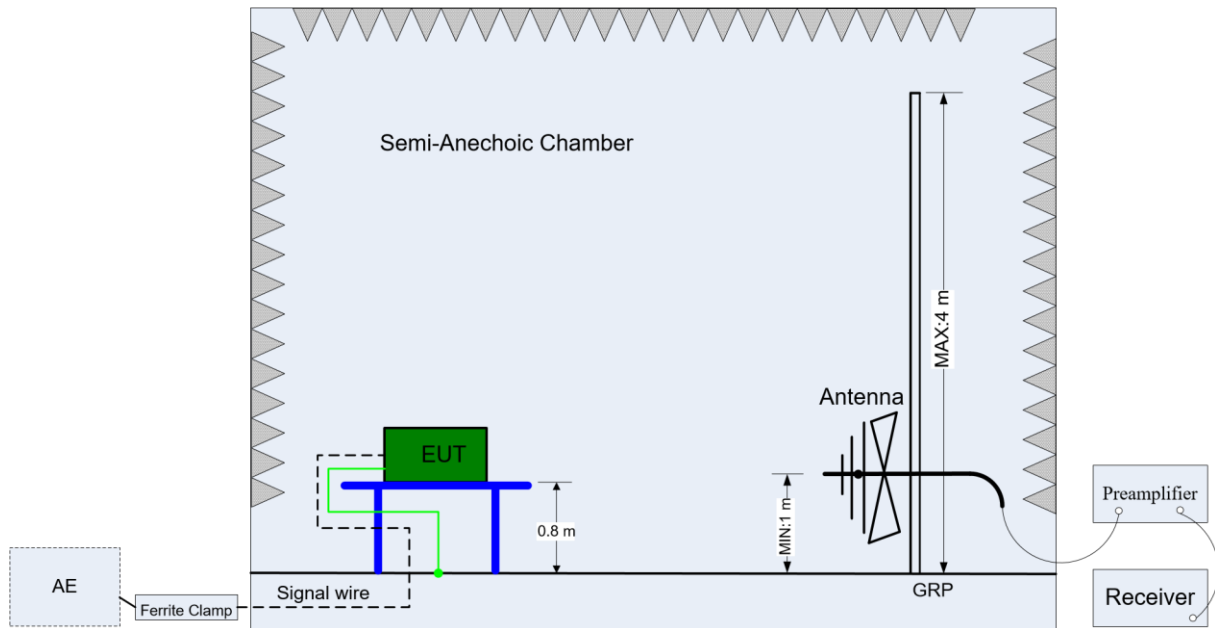
Clause 4.1.5; 5.2; 5.3; 6.3; 6.4; 6.5; 6.6 of ANSI C63.10-2020.

3.1.3 Setup

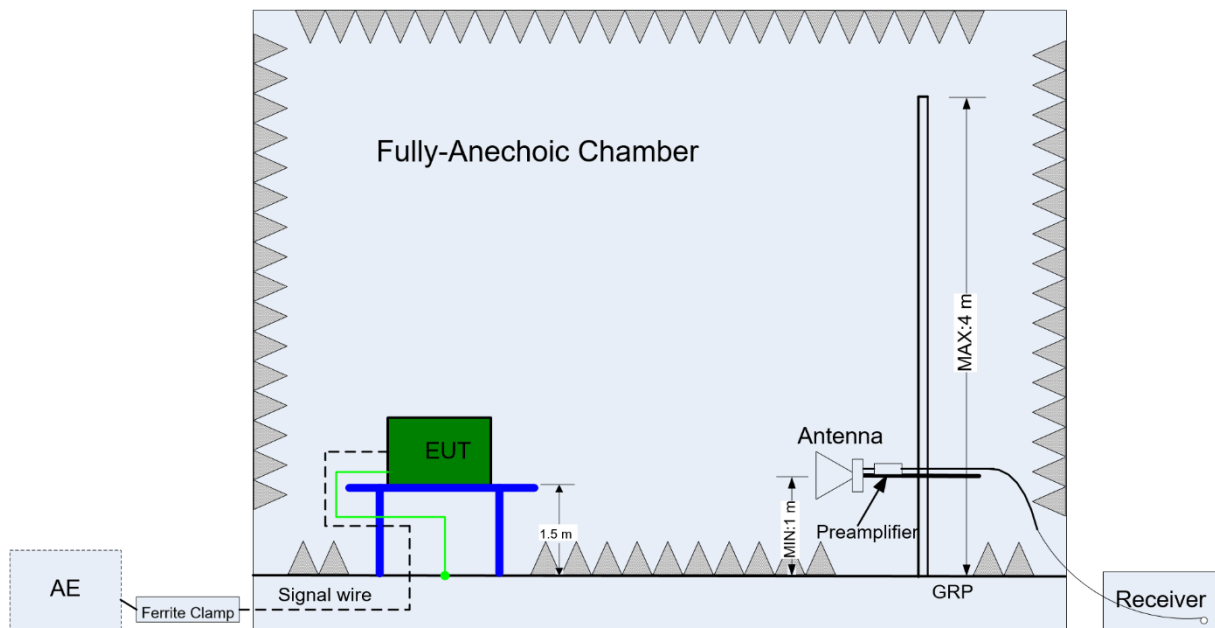
Below 30MHz



Below 1GHz



Above 1GHz



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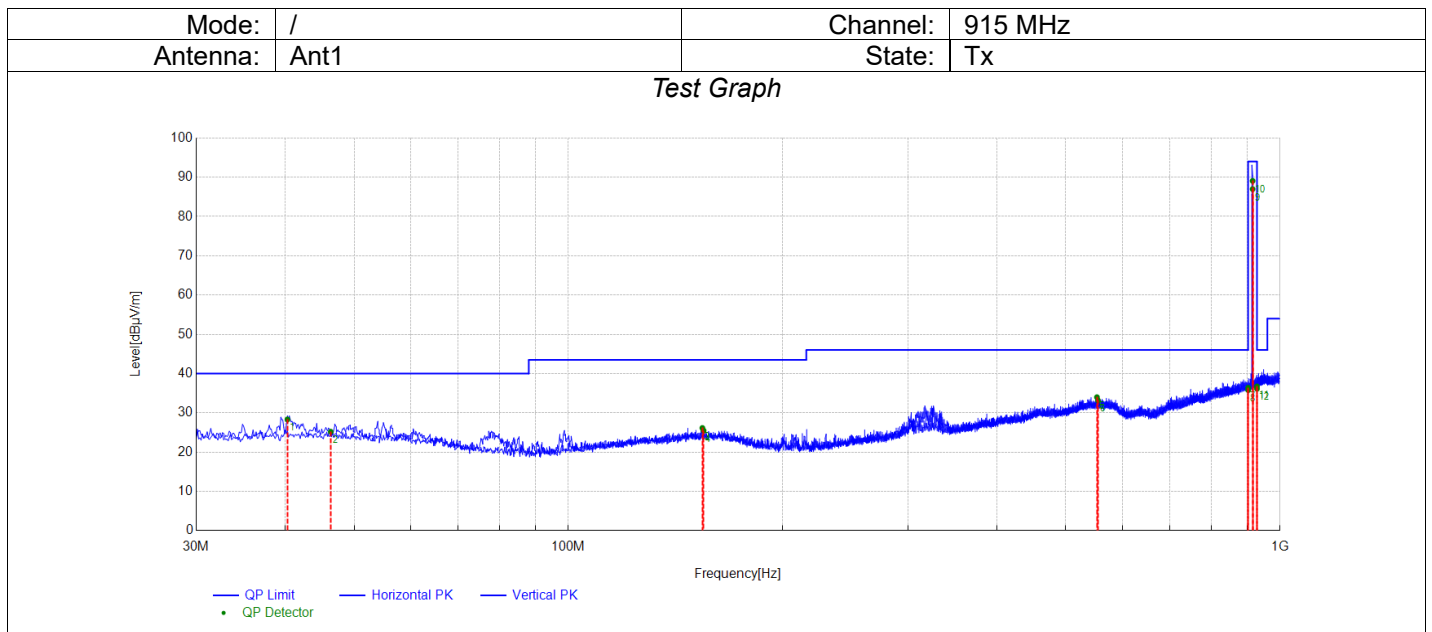
4 Appendix

Appendix A: Radiated emission

The report only records the worst-case emission levels.

For radiated emissions in the frequency range of 9 kHz to 30 MHz, a preliminary scan was performed. Per FCC §15.31(o), emissions that were more than 20 dB below the applicable limit are not reported.

For radiated emissions at frequencies above 1 GHz, per ANSI C63.10-2020, Section 6.6.4.3, Note 1, if the peak measured value complies with the average limit, an average measurement is not required. Therefore, for frequencies where the peak result complies with the average limit, average (AV) emission values may be omitted from the table below.



Final Data List										
NO.	Frequency [MHz]	Factor [dB/m]	QP Reading [dBμV]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	40.3062	-4.19	32.53	28.34	40.00	11.66	100	284	Vertical	PASS
2	46.3688	-4.29	29.48	25.19	40.00	14.81	100	348	Horizontal	PASS
3	154.2812	-4.07	30.23	26.16	43.50	17.34	100	25	Horizontal	PASS
4	154.8875	-4.07	29.57	25.50	43.50	18.00	100	360	Vertical	PASS
5	552.9512	1.84	32.16	34.00	46.00	12.00	200	201	Horizontal	PASS
6	554.7700	1.90	31.29	33.19	46.00	12.81	200	150	Vertical	PASS
7	902.0000	8.88	27.52	36.40	46.00	9.60	200	133	Vertical	PASS
8	902.0000	8.88	26.93	35.81	46.00	10.19	100	284	Horizontal	PASS
9	915.0189	9.07	80.01	89.08	94.00	4.92	100	271.2	Horizontal	PASS
10	915.0189	9.07	77.93	87.00	94.00	7.00	119.7	346.4	Vertical	PASS
11	928.0000	9.92	26.82	36.74	46.00	9.26	200	17	Horizontal	PASS
12	928.0000	9.92	26.21	36.13	46.00	9.87	200	342	Vertical	PASS

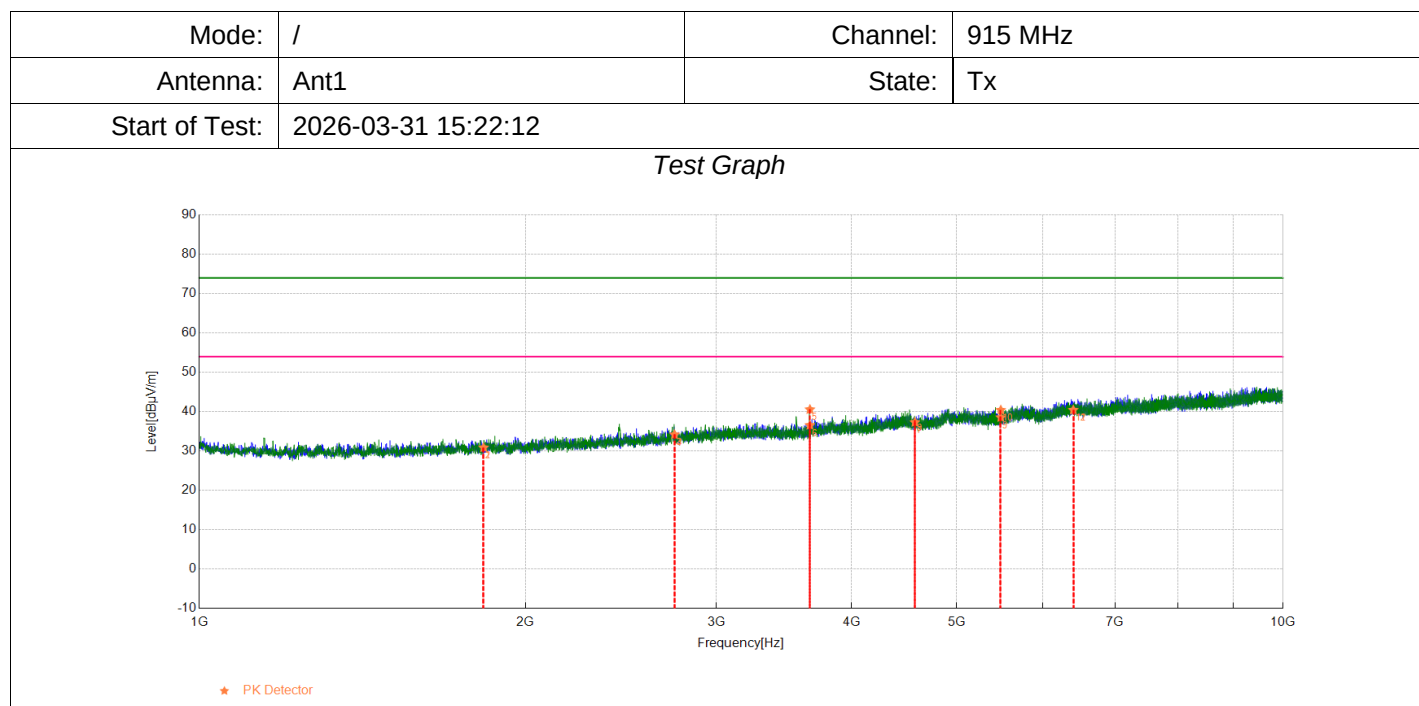
Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level

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Final Data List

NO.	Frequency [MHz]	Factor [dB]	PK Reading [dBμV/m]	PK Value [dBμV/m]	PK Limit [dBμV/m]	PK Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	1830.0000	-26.10	56.99	30.89	74.00	43.11	150	230	Vertical	PASS
2	1830.0000	-26.10	56.9	30.80	74.00	43.20	150	147	Horizontal	PASS
3	2745.0000	-22.21	56.41	34.20	74.00	39.80	150	347	Horizontal	PASS
4	2745.0000	-22.21	56.4	34.19	74.00	39.81	150	298	Vertical	PASS
5	3660.0000	-19.51	60.1	40.59	74.00	33.41	150	203	Vertical	PASS
6	3660.0000	-19.51	56.09	36.58	74.00	37.42	150	347	Horizontal	PASS
7	4575.0000	-15.77	53.1	37.33	74.00	36.67	150	360	Vertical	PASS
8	4575.0000	-15.77	53.64	37.87	74.00	36.13	150	186	Horizontal	PASS
9	5490.0000	-12.85	51.41	38.56	74.00	35.44	150	290	Horizontal	PASS
10	5490.0000	-12.85	53.27	40.42	74.00	33.58	150	79	Vertical	PASS
11	6405.0000	-10.25	50.7	40.45	74.00	33.55	150	106	Horizontal	PASS
12	6405.0000	-10.25	50.71	40.46	74.00	33.54	150	315	Vertical	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

--End of report--

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