

TEST REPORT

of

FCC Part 15 Subpart C

☒ New Application; ☐ Class I PC; ☐ Class II PC

Product : KEYLESS Remote Controller
Brand: Wellysun
Model: J71.KEYL003.1
Model Difference: N/A
FCC ID: 2BTB6J71KEYL0031
FCC Rule Part: §15.231 (a)
Applicant: Wellysun Inc.
Address: 11F-8, No.12, Taiyuan 2nd Street, Zhubei City, Hsinchu County 302082, Taiwan(R.O.C.)

Test Performed by:



International Standards Laboratory Corp. LT Lab.

TEL: +886-3-263-8888 FAX: +886-3-263-8899

No. 120, Lane 180, Hsin Ho Rd., Lung-Tan Dist., Tao Yuan City 325, Taiwan

Report No.: ISL-25LR0134FC433

Issue Date : 2025/09/30



FCC Registration Number: 487532

Test results given in this report apply only to the specific sample(s) tested and are traceable to national or international standard through calibration of the equipment and evaluating measurement uncertainty herein.

According to customer agreement, the laboratory issues test reports based on the regulations or standards specifications, the measurement uncertainty is not considered in conformity decision rules.

This test report shall not be reproduced except in full, without the written approval of International Standards Laboratory Corp.

VERIFICATION OF COMPLIANCE

Applicant: Wellysun Inc.
Product Description: KEYLESS Remote Controller
Brand Name: Wellysun
FCC ID: 2BTB6J71KEYL0031
FCC Rule Part: §15.231 (a)
Model No.: J71.KEYL003.1
Model Difference: N/A
Date of test: 2025/08/29 ~ 2025/09/30
Date of EUT Received: 2025/08/29

We hereby certify that:

All the tests in this report have been performed and recorded in accordance with the standards described above and performed by an independent electromagnetic compatibility consultant, International Standards Laboratory Corp.

The test results contained in this report accurately represent the measurements of the characteristics and the energy generated by sample equipment under test at the time of the test. The sample equipment tested as described in this report is in compliance with the limits of above standards.

Prepared By: Gigi Yeh

Test By: Jason Chao
Jason Chao

Approved By: Jerry Liu
Jerry Liu / Manager

Version

Version No.	Date	Description
00	2025/09/30	Initial creation of document

Uncertainty of Measurement

Parameter	Uncertainty (k=2)
Conducted Emission (AC power line)	± 1.6 dB
Spurious emissions, radiated	± 4.8 dB
RF power, conducted	± 2.2 dB
Power Density	± 2.3 dB
RF Frequency	± 1.5 %
DC Voltage	± 2.2 %

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1. General Information

1.1 Product Description

General Information		
Product Name:	KEYLESS Remote Controller	
Brand Name:	Wellysun	
Model Name:	J71.KEYL003.1	
Model Difference:	N/A	
Power Supply:	3V dc battery	
	Battery	Model: CR2032
Information		
Modular:	Atmel 306 ATA5702	
Frequency Range:	Tx: 433.92 MHz Rx: 125 kHz	
Max Output Power:	37.02 dBuV/m@3m	
Channel number:	1	
Modulation type:	FSK	
Product HW Version:	J71.KEYL003.1 REV1	
Product SW Version:	N/A	
Product FW Version:	J71.KEYL003.1 V100	
Test SW Version:	J71.KEYL003.1 TEST V100	
Antenna Designation:		
RF power setting:	Default	

	Antenna Type	Brand	Model	Peak Gain	Frequency Range	Connector Type
1	PCB antenna	WellySun	J71KEYL0031	-17.10	433.92MHz $\pm$ 250kHz	N/A
2	Loop antenna	EROCORE	ATN3D1103N3-722J	-	125kHz $\pm$ 3.75kHz	N/A

1.2 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCC ID: **2AUZVJ71.KEYL003.1** filing to comply with Section 15.231 (a1) of the FCC Part 15, Subpart C., Subpart C Rules filing to comply.

1.3 Test Methodology

Both conducted and radiated testing were performed according to the procedures in C63.10: 2020. Radiated testing was performed at an antenna to EUT distance 3 meters.

1.4 Test Facility

The measurement facilities used to collect the 3m Radiated Emission and AC power line conducted data are located on the address of **International Standards Laboratory Corp.** <LT Lab.> No. 120, Lane 180, Hsin Ho Rd., Lung-Tan Dist., Tao Yuan City 325, Taiwan which are constructed and calibrated to meet the FCC requirements in documents ANSI C63.10: 2020. FCC Registration Number is: 487532; Designation Number is: TW0997.

1.5 Special Accessories

Not available for this EUT intended for grant.

1.6 Equipment Modifications

Not available for this EUT intended for grant.

2. System Test Configuration

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

The EUT (Transmitter) was tested with a test program to fix the Tx frequency that was for the purpose of the measurements. For more information please see test data and APPENDIX 1 for set-up photographs.

2.3 Test Procedure

2.3.1 Conducted Emissions (Not apply in the report)

The EUT is a placed on as turn table which is 0.8 m above ground plane. According to the requirements in Section 6.2 of ANSI C63.10: 2020. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR 16-1-1 Quasi-Peak and Average detector mode.

2.3.2 Radiated Emissions

The EUT is a placed on as turn table which is 0.8 m/1.5m(Frequency above 1GHz) above ground plane. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter(EUT) was rotated through three orthogonal axes according to the requirements in Section 6 and 11 of ANSI C63.10: 2020.

2.4 Limitation

(1) Conducted Emission

Frequency range MHz	Limits dB (uV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50
Note 1.The lower limit shall apply at the transition frequencies 2.The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.		

(2) Radiated Emission

According to 15.231(a) the field strength of emissions from Intentional Radiators operated under this section shall not exceed the following:

Fundamental frequency (MHz)	Field strength of fundamental (microvolts/meter)	Field strength of spurious emission (microvolts/meter)
40.66-40.70	2,250	225
70-130	1,250	50
130-174	¹ 1,250 to 3,750	¹ 125 to 375
174-260	3,750	375
260-470	¹ 3,750 to 12,500	¹ 375 to 1,250
Above 470	12,500	1250

¹Linear interpolations.

- Remark:
1. Emission level in dBuV/m = $20 \log (\mu\text{V/m})$
 2. Measurement was performed at an antenna to the closed point of EUT distance of meters.
 3. Only spurious frequency is permitted to locate within the Restricted Bands specified in provision of $\xi 15.205$
 4. Emission spurious frequency which appearing within the Restricted Bands specified in provision of $\xi 15.205$, then the general radiated emission limits in $\xi 15.209$ apply.
 5. For the band 130-174MHz, $\mu\text{V/m}$ at 3meters = $56.81818 * F(\text{MHz}) - 6136.3636$;
For the band 260-470MHz $\mu\text{V/m}$ at 3meters = $41.6667 * F(\text{MHz}) - 7083.3333$;
Where F is the frequency in MHz.
 6. 411MHz AV limit = $41.6667 * 411(\text{MHz}) - 7083.3333 = 10041.68 \mu\text{V/m}$
= 80.04dBuV/m
 7. 411MHz Peak limit = AV Limit + 20dB = 100.03MHz
 8. 426MHz AV limit = $41.6667 * 426(\text{MHz}) - 7083.3333 = 10666.68 \mu\text{V/m}$
= 80.56dBuV/m
 9. 426MHz Peak limit = AV Limit + 20dB = 100.56MHz
 10. 441MHz AV limit = $41.6667 * 441(\text{MHz}) - 7083.3333 = 11291.68 \mu\text{V/m}$
= 81.06dBuV/m
 11. 441MHz Peak limit = AV Limit + 20dB = 101.05MHz

2.5 Configuration of Tested System

Fig. 1 Configuration of Tested System

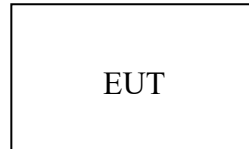


Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/ Type No.	Series No.	Data Cable	Power Cord
1.	N/A					

3. Summary of Test Results

FCC /IC Rules	Description Of Test	Result
§15.207	Conducted Emission	N/A
§15.231(a)(3) §15.231(b)	Radiated Emission	Compliant
§15.231(c)	20dB Bandwidth	Compliant
	Duty Cycle Test (Pulse Modulation)	N/A
§15.231(a1) RSS-210 A1.1.1(c)	Release Time	Compliant
§15.203	Antenna Requirement	Compliant

4. Description of Test Modes

The EUT has been tested under engineering test mode condition and the EUT staying in continuous transmitting mode.

The X, Y and Z-axis of EUT were pre-test; Y mode were the worse case and report.

5. AC Conducted Emissions Test

5.1 Measurement Procedure:

1. The EUT was placed on a table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all frequency measured were complete.

5.2 Test SET-UP (Block Diagram of Configuration)

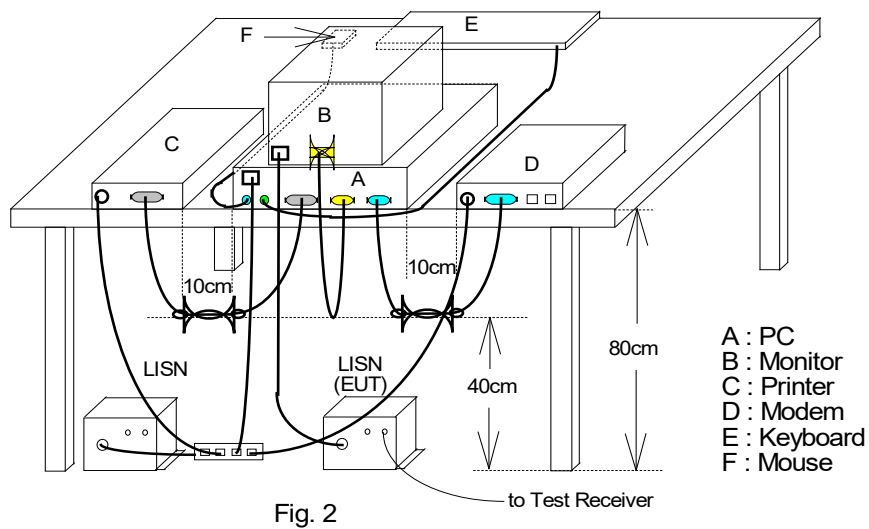


Fig. 2

5.3 Measurement Equipment Used:

Location	Equipment Name	Brand	Model	S/N	Last Cal. Date	Next Cal. Date
Conduction 02	EMI Receiver 20	R&S	ESR7	101326	04/25/2025	04/25/2026
Conduction 02	Conduction 02-1 01 Cable	WOKEN	CFD 300-NL	Conduction 02-1	08/29/2025	08/29/2026
Conduction 02	LISN 26	R&S	ENV216	102378	11/29/2024	11/29/2025
Conduction 02	LISN 21	R&S	ENV216	101476	07/05/2025	07/05/2026
Conduction 02	ISN T8 CAT6A 03	SCHWARZBECK	NTFM 8158	NTFM 8158-00367	05/29/2025	05/29/2026
Conduction 02	ISN T4 07	TESEQ	ISN T400A	30449	08/26/2025	08/26/2026
Conduction 02	ISN T8 10	TESEQ	ISN T800	42773	06/04/2025	06/04/2026
Conduction 02	CDN ISN ST08A 01	TESEQ	CDN ISN ST08A	43352	08/07/2025	08/07/2026
Conduction 02	Capacitive Voltage Probe 01	SCHAFFNER	CVP 2200A	18711	01/23/2025	01/23/2026
Conduction 02	Current Probe 01	SCHAFFNER	SMZ 11	18030	01/15/2025	01/15/2026
Conduction 02 (EN_IEC_5501 4-1)	High Voltage Probe_01	SCHWARZBECK	TK 9420	TK 9420-796	08/02/2024	08/02/2026

5.4 Measurement Result:

N/A

6. Radiated Emission Test

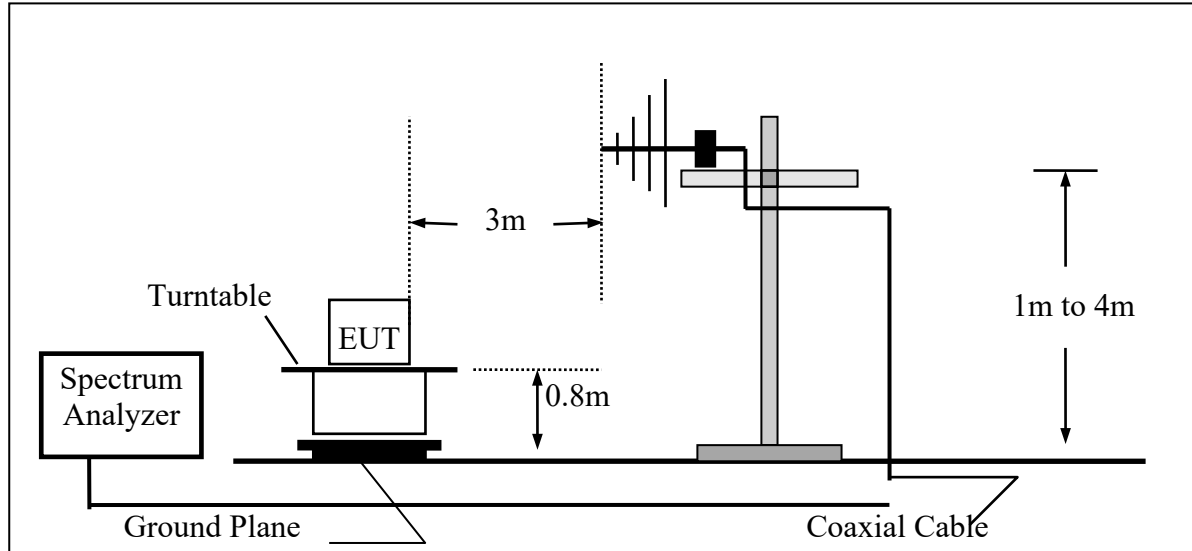
15.231 (e) Intentional radiators may operate at a periodic rate exceeding that specified in paragraph (a) of this section and may be employed for any type of operation, including operation prohibited in paragraph (a) of this section, provided the intentional radiator complies with the provisions of paragraphs (b) through (d) of this section, except the field strength table in paragraph (b) of this section is replaced by the following:

6.1 Measurement Procedure

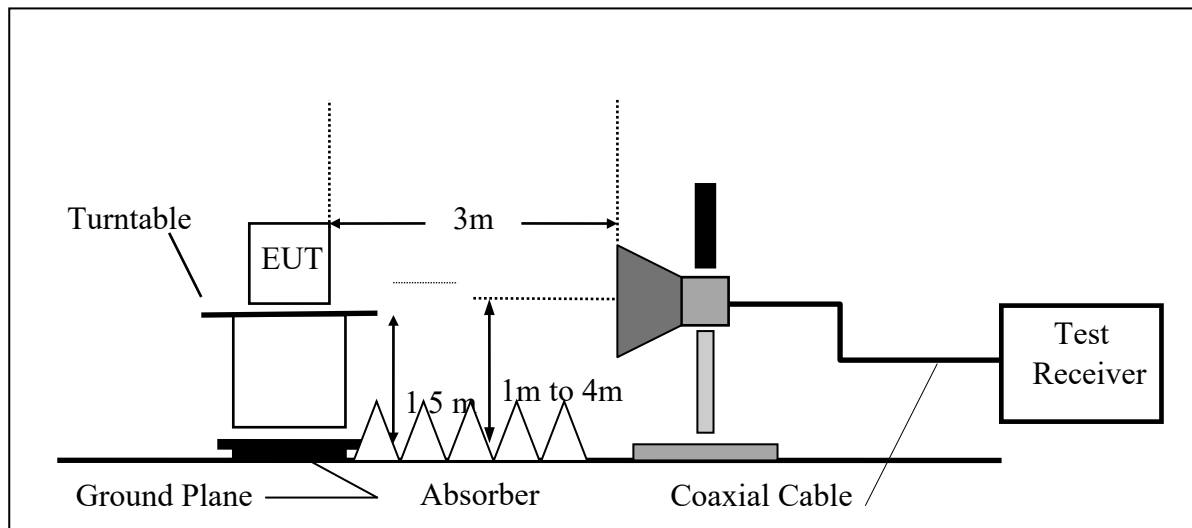
1. The EUT was placed on a turn table which is 0.8/1.5m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above procedures until all frequency measured were complete.

6.2 Test SET-UP (Block Diagram of Configuration)

(A) Radiated Emission Test Set-Up, Frequency Below 1000MHz



(B) Radiated Emission Test Set-UP Frequency Over 1 GHz



6.3 Measurement Equipment Used:

Location Conducted	Equipment Name	Brand	Model	S/N	Last Cal. Date	Next Cal. Date
Chamber 19	Spectrum Analyzer	R&S	FSV40	101919	07/22/2025	07/22/2026
Chamber 19	EMI Receiver	R&S	ESR3	102461	05/12/2025	05/12/2026
Chamber 19	Loop Antenna	EM	EM-6879	271	09/25/2025	09/25/2026
Chamber 19	Bilog Antenna (30MHz-1GHz)	Schwarzbeck	VULB9168 5dB Att.	9168-736	04/21/2025	04/21/2026
Chamber 19	Horn antenna (1GHz-18GHz)	ETS • LINDGREN	3117	00218718	10/04/2024	10/04/2025
Chamber 19	Horn antenna (18GHz-26GHz)	Com-power	AH-826	081001	11/28/2024	11/28/2025
Chamber 19	Horn antenna (26GHz-40GHz)	Com-power	AH-640	100A	03/27/2025	03/27/2026
Chamber 19	Preamplifier (9kHz-3GHz)	EM	EM330	060822	04/22/2025	04/22/2026
Chamber 19	Preamplifier (1GHz-26GHz)	HP	8449B	3008A02471	10/23/2024	10/23/2025
Chamber 19	Preamplifier (26GHz-40GHz)	MITEQ	JS4-26004000-27-5A	818471	05/06/2025	05/06/2026
Chamber 19	RF Cable (9kHz-26.5GHz)	Huber Suhner	Sucoflex 104A	MY1394/4A & 50886/4A	07/17/2025	07/17/2026
Chamber 19	RF Cable (18GHz-40GHz)	HUBER SUHNER	Sucoflex 102	27963/2&37421/2	11/22/2024	11/22/2025
Chamber 19	MXG Vector Signal Generator	Keysight	N5182B	MY53052399	12/26/2023	12/26/2025
Chamber 19	Test Software	Audix	e3 Ver:6.120203	N/A	N/A	N/A

6.4 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Average Value = Peak Value + 20 Log (Ton/Tp)Pulse Modulation Duty Cycle Correction Factor

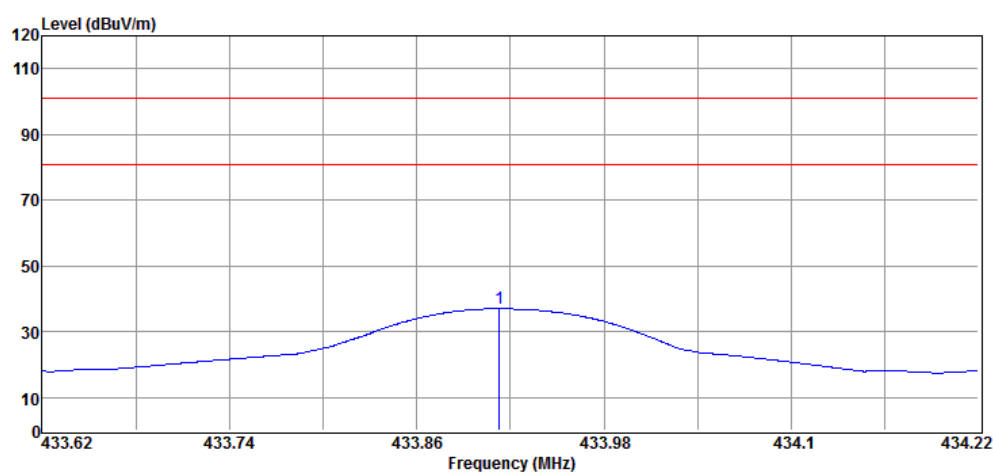
Where	FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
	RA = Reading Amplitude	AG = Amplifier Gain
	AF = Antenna Factor	

6.5 Measurement Result

Fundamental Measurement Result

International Standard Laboratory Corp.
 Company Address: No. 120, Lane 180, Hsin Ho Rd.
 Lung-Tan Dist., Tao Yuan City 325, Taiwan
 Date: 2025-09-19

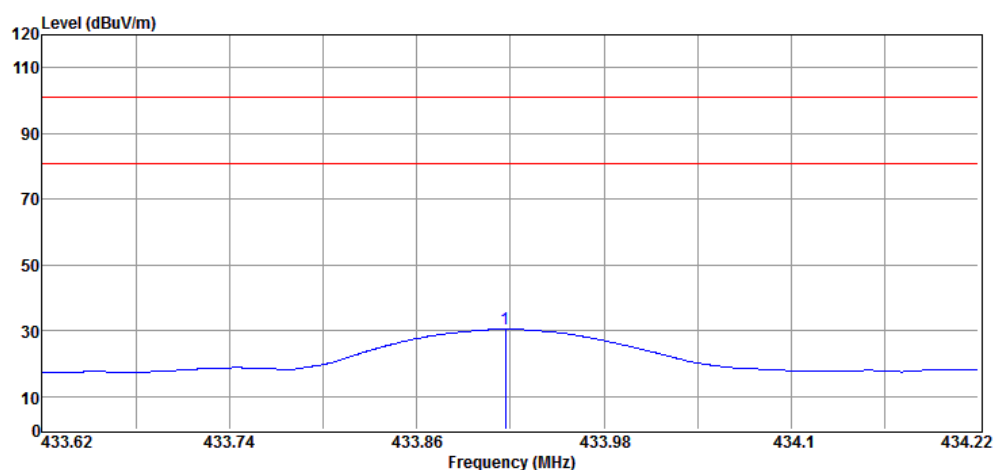
Project Number. : 25LR0134 Temp.(°C)/RH(%) : 25/50
 Test Mode : 433.92MHz power(Y) Tested by : Barry Lee



No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	433.91	43.95	-6.93	37.02	100.83	-63.81	Peak	VERTICAL

International Standard Laboratory Corp.
Company Address: No. 120, Lane 180, Hsin Ho Rd.
Lung-Tan Dist., Tao Yuan City 325, Taiwan
Date: 2025-09-19

Project Number. : 25LR0134 Temp.(°C)/RH(%) : 25/50
Test Mode : 433.92MHz power(Y) Tested by : Barry Lee



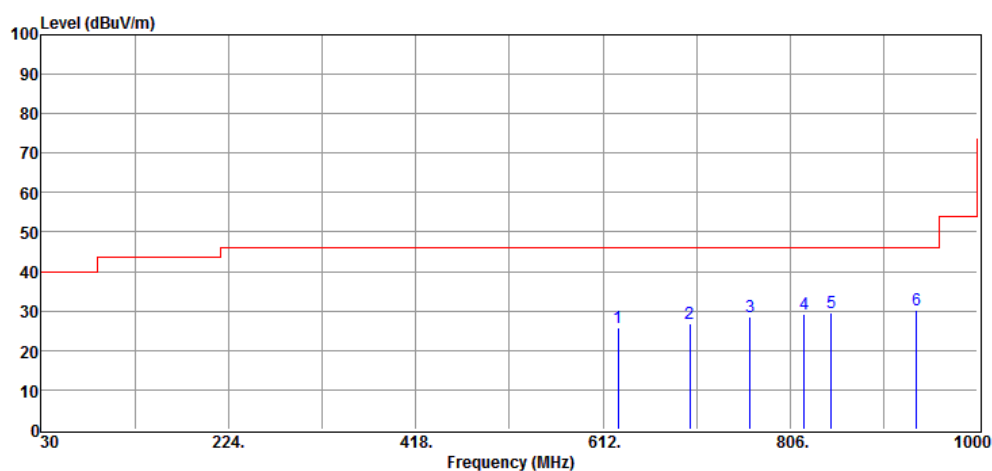
No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	433.92	37.38	-6.93	30.45	100.83	-70.38	Peak	HORIZONTAL

Radiated Spurious Emission Measurement Result (below 1GHz)

International Standard Laboratory Corp.
Company Address: No.120, Lane 180, Hsin Ho Rd.
Lung-Tan Dist., Tao Yuan City 325, Taiwan

Date: 2025-09-19

Project Number. : 25LR0134 Temp.(°C)/RH(%) : 25/50
Test Mode : 433.92MHz TX Tested by : Barry Lee



No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	627.52	28.70	-2.79	25.91	46.00	-20.09	Peak	VERTICAL
2	702.21	28.63	-1.77	26.86	46.00	-19.14	Peak	VERTICAL
3	764.29	28.65	-0.25	28.40	46.00	-17.60	Peak	VERTICAL
4	820.55	29.29	0.07	29.36	46.00	-16.64	Peak	VERTICAL
5	848.68	29.04	0.40	29.44	46.00	-16.56	Peak	VERTICAL
6	936.95	28.71	1.60	30.31	46.00	-15.69	Peak	VERTICAL

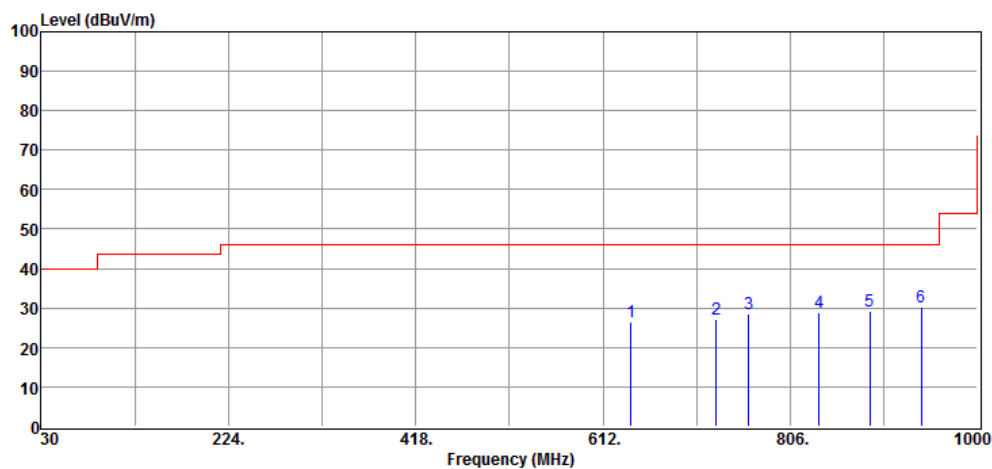
Remark:

- 1 No further spurious emissions detected from the lowest internal frequency and 30MHz.
- 2 Measuring frequencies from the lowest internal frequency to the 1GHz.
- 3 Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak / QP detector mode.
- 4 Measurement result within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 5 The IF bandwidth of SPA between 30MHz to 1GHz was 100kHz, VBW=300kHz.

Radiated Spurious Emission Measurement Result (below 1GHz)

International Standard Laboratory Corp.
Company Address: No.120, Lane 180, Hsin Ho Rd.
Lung-Tan Dist., Tao Yuan City 325, Taiwan
Date: 2025-09-19

Project Number. : 25LR0134 Temp.(°C)/RH(%) : 25/50
Test Mode : 433.92MHz TX Tested by : Barry Lee



No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	641.10	29.08	-2.53	26.55	46.00	-19.45	Peak	HORIZONTAL
2	729.37	28.23	-1.22	27.01	46.00	-18.99	Peak	HORIZONTAL
3	763.32	28.64	-0.27	28.37	46.00	-17.63	Peak	HORIZONTAL
4	836.07	28.58	0.15	28.73	46.00	-17.27	Peak	HORIZONTAL
5	888.45	28.64	0.58	29.22	46.00	-16.78	Peak	HORIZONTAL
6	941.80	28.56	1.68	30.24	46.00	-15.76	Peak	HORIZONTAL

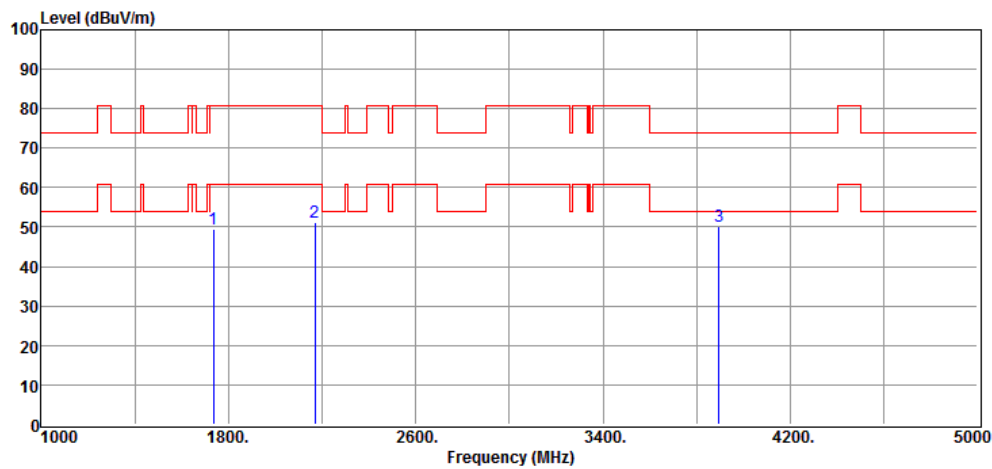
Remark:

- 1 No further spurious emissions detected from the lowest internal frequency and 30MHz.
- 2 Measuring frequencies from the lowest internal frequency to the 1GHz.
- 3 Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak / QP detector mode.
- 4 Measurement result within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 5 The IF bandwidth of SPA between 30MHz to 1GHz was 100kHz, VBW=300kHz.

Radiated Spurious Emission Measurement Result (above 1GHz)

International Standard Laboratory Corp.
Company Address: No. 120, Lane 180, Hsin Ho Rd.
Lung-Tan Dist., Tao Yuan City 325, Taiwan
Date: 2025-09-19

Project Number. : 25LR0134 Temp.(°C)/RH(%) : 25/50
Test Mode : 433.92MHz TX Tested by : Barry Lee



No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	1735.68	50.26	-0.72	49.54	80.83	-31.29	Peak	VERTICAL
2	2169.60	49.51	1.81	51.32	80.83	-29.51	Peak	VERTICAL
3	3896.00	44.34	5.84	50.18	74.00	-23.82	Peak	VERTICAL

Remark:

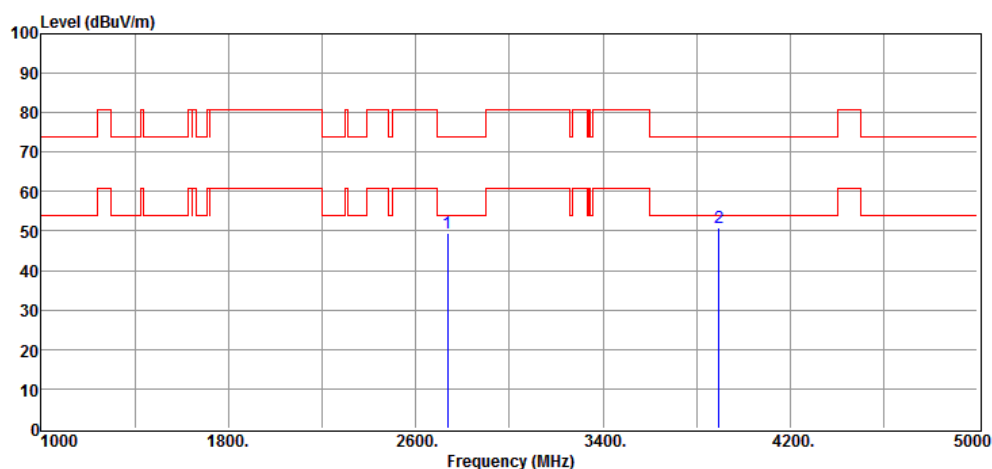
- 1 Measuring frequencies from the lowest internal frequency to the 10th of fundamental frequency
- 2 Field strength limits for frequency above 1000MHz are based on average limits. However, Peak mode field strength shall not exceed the average limits specified plus 20dB.
- 3 Measurement of data within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4 Spectrum Peak mode IF bandwidth Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3 MHz.
- 5 Average Value = Peak Value + 20 Log (Ton/Tp).....Pulse Modulation Duty Cycle Correction Factor.

Radiated Spurious Emission Measurement Result (above 1GHz)

International Standard Laboratory Corp.
Company Address: No. 120, Lane 180, Hsin Ho Rd.
Lung-Tan Dist., Tao Yuan City 325, Taiwan

Date: 2025-09-19

Project Number. : 25LR0134 Temp.(°C)/RH(%) : 25/50
Test Mode : 433.92MHz TX Tested by : Barry Lee



No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	2736.00	45.93	3.61	49.54	74.00	-24.46	Peak	HORIZONTAL
2	3896.00	44.97	5.84	50.81	74.00	-23.19	Peak	HORIZONTAL

Remark:

- 1 Measuring frequencies from the lowest internal frequency to the 10th of fundamental frequency
- 2 Field strength limits for frequency above 1000MHz are based on average limits. However, Peak mode field strength shall not exceed the average limits specified plus 20dB.
- 3 Measurement of data within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4 Spectrum Peak mode IF bandwidth Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3 MHz.
- 5 Average Value = Peak Value + 20 Log (Ton/Tp).....Pulse Modulation Duty Cycle Correction Factor.

7. 20dB Occupied Bandwidth

7.1 Measurement Procedure

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Set EUT as normal operation
3. Set SPA Center Frequency = fundamental frequency, RBW= 10kHz, VBW= 30kHz, Span =3MHz.
4. Set SPA Max hold. Mark peak, -20dB.

7.2 Test SET-UP (Block Diagram of Configuration)

Same as 6.2 Radiated Emission Measurement.

7.3 Measurement Equipment Used:

Same as 6.3 Radiated Emission Measurement.

7.4 Measurement Results

Refer to attached data chart.

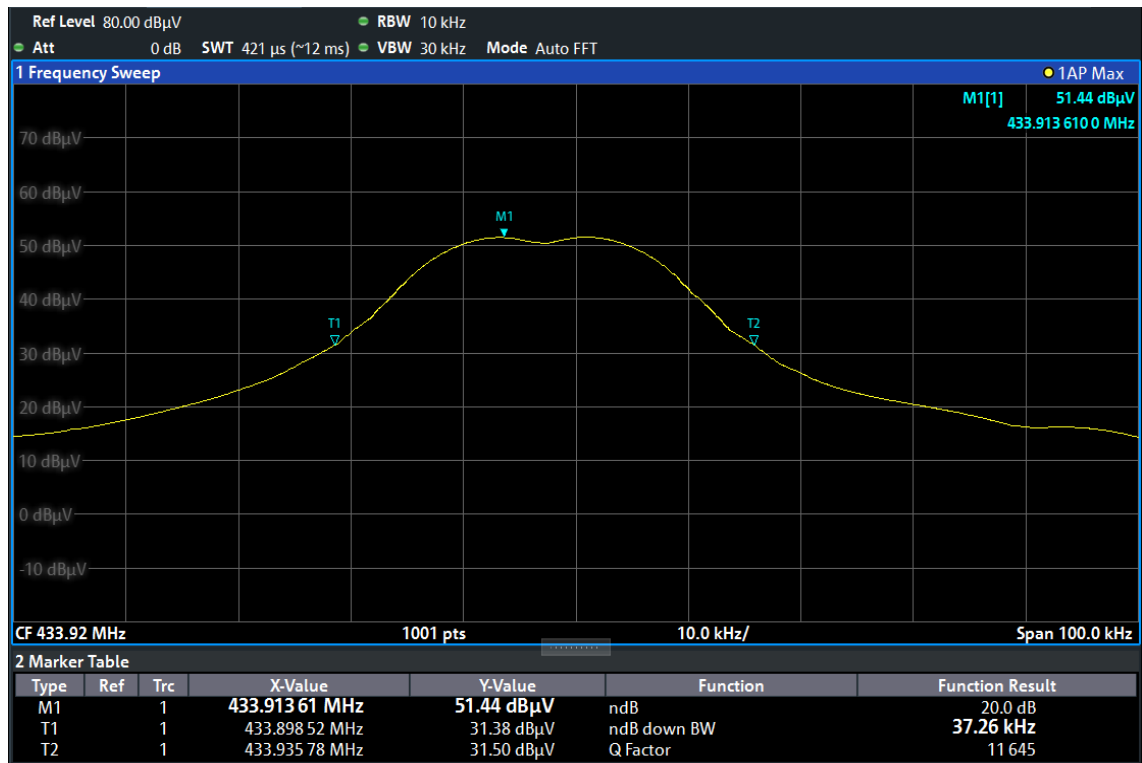
The center frequency f_c is **433.92MHz**, according to the Rules, section 15.231(C), the Bandwidth of Center Frequency at-20dB should be calculated as following:

$$433.92 \times 0.0025 = 1.0848(\text{MHz})$$

7.5 Measurement Result:

37.26 kHz < limit 1.0848MHz

20dB Band Width Test Data



8. RELEASE TIME MEASUREMENT:

15.231 (a) (1) A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released.

8.1 Measurement Procedure

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Set SPA Center Frequency = fundamental frequency, RBW, VBW= 100kHz, Span =0Hz, Sweep Time= 200ms / 20s.
3. Set EUT as normal operation and press Transmitter bottom for 2 s,
4. Set SPA Max hold. Delta Mark.

8.2 Test SET-UP (Block Diagram of Configuration)

Same as 6.2 Radiated Emission Measurement.

8.3 Measurement Equipment Used:

Same as 6.3 Radiated Emission Measurement.

8.4 Measurement Results

The release time less than 5 s. Refer to attached data chart.

