



RADIO TEST REPORT

Applicant	:	Dongguan Floating Point Lingxi Robot Co., Ltd.
Address of Applicant	:	Room 1017, Building 1, No. 6, Zhuangyuan Road, Songshan Lake Park, Dongguan City, Guangdong Province
Manufacturer	:	Dongguan Floating Point Lingxi Robot Co., Ltd.
Address of Manufacturer	:	Room 1017, Building 1, No. 6, Zhuangyuan Road, Songshan Lake Park, Dongguan City, Guangdong Province
Equipment under Test	:	Remote Control
Model No.	:	YKQ-01
FCC ID	:	2BTKF-YKQ-01
Test Standard(s)	:	47 CFR Part 15 Subpart C, ANSI C63.10-2020
Report No.	:	DDT-RE25042252-4E01
Issue Date	:	2025/12/29
Issue By	:	Guangdong Dongdian Testing Service Co., Ltd. Unit 2, Building 1, No. 17, Zongbu 2nd Road, Songshan Lake Park, Dongguan, Guangdong, China, 523808

REPORT

Table of Contents

1.	Summary of Test Results	6
2.	General Test Information.....	7
2.1.	Description of EUT	7
2.2.	Accessories of EUT	7
2.3.	Block diagram of EUT configuration for test.....	7
2.4.	Decision of final test mode	7
2.5.	Deviations of test standard	7
2.6.	Test environment conditions	8
2.7.	Test laboratory	8
2.8.	Measurement uncertainty	9
3.	Equipment Used During Conductive Test	10
4.	On Time and Duty Cycle	11
4.1.	Block diagram of test setup	11
4.2.	Limits	11
4.3.	Test procedure	11
4.4.	Test result.....	12
4.5.	Test graphs	13
5.	20dB Bandwidth and 99% Bandwidth	14
5.1.	Block diagram of test setup	14
5.2.	Limits	14
5.3.	Test procedure	14
5.4.	Test result.....	15
5.5.	Test graphs	16
6.	Stop Transmitting Time Test	17
6.1.	Block diagram of test setup	17
6.2.	Limits	17
6.3.	Test procedure	17
6.4.	Test result.....	18
6.5.	Test graphs	19
7.	Radiated Emission	20
7.1.	Test equipment.....	20
7.2.	Block diagram of test setup	21
7.3.	Limits	22
7.4.	Assistant equipment used for test	23
7.5.	Test procedure	23
7.6.	Test result.....	25

7.7.	Test data	26
8.	Field Strength Of The Fundamental Signal	30
8.1.	Test equipment.....	30
8.2.	Block diagram of test setup	31
8.3.	Limits	31
8.4.	Assistant equipment used for test	31
8.5.	Test procedure	31
8.6.	Test result.....	33
9.	Antenna Requirement	34
9.1.	Assessment procedure.....	34
9.2.	Assess result	34
11.	Photos of the EUT	37

Test Report Declare

Applicant	:	Dongguan Floating Point Lingxi Robot Co., Ltd.
Address of Applicant	:	Room 1017, Building 1, No. 6, Zhuangyuan Road, Songshan Lake Park, Dongguan City, Guangdong Province
Equipment under Test	:	Remote Control
Model No.	:	YKQ-01
Manufacturer	:	Dongguan Floating Point Lingxi Robot Co., Ltd.
Address of Manufacturer	:	Room 1017, Building 1, No. 6, Zhuangyuan Road, Songshan Lake Park, Dongguan City, Guangdong Province

Test Standard Used:
47 CFR Part 15 Subpart C,
ANSI C63.10-2020

We Declare:
The equipment described above is tested by Guangdong Dongdian Testing Service Co., Ltd. and in the configuration tested the equipment complied with the standards specified above. The test results are contained in this test report and Guangdong Dongdian Testing Service Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these tests.

Report No.:	DDT-RE25042252-4E01		
Date of Receipt:	2025/11/10	Date of Test:	2025/11/10~2025/12/17

Created: Chen Ziqin	Reviewed: Johnson Huang	Approved: Damon Hu
		
2025/11/26	2025/12/29	2025/12/29

Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Guangdong Dongdian Testing Service Co., Ltd.

Revision History

Version	Revision Content	Issue Date	Approved
V0	Initial issue	2025/12/29	Damon Hu

1. Summary of Test Results

No.	Test Parameter	Clause No.	Condition	Result
1	On Time and Duty Cycle	ANSI C63.10 clause 7.5	/	Pass
2	20dB Bandwidth and 99% Bandwidth	47 CFR Part 15 15.215	/	Pass
3	Stop Transmitting Time Test	47 CFR Part 15 15.231(a)(1)	/	Pass
4	Radiated Emission	47 CFR Part 15 15.231(b)	/	Pass
5	Field Strength Of The Fundamental Signal	47 CFR Part 15 15.231(b)	/	Pass
6	Power Line Conducted Emissions	47 CFR Part 15: 15.207	/	N/A
7	Antenna Requirement	47 CFR Part 15 15.203	/	Pass

Note: N/A is an abbreviation for Not Applicable, and means this item is not applicable for this device or no need to test according to standard.

2. General Test Information

2.1. Description of EUT

EUT Name	:	Remote Control
Model Number	:	YKQ-01
Difference of model number	:	/
EUT Function Description	:	Please reference user manual of this device
Power Supply	:	Battery

Note: The above EUT information is declared by manufacturer and for more detailed features description please refer to the manufacturer's specifications or User's Manual. The above Antenna information is declared by manufacturer and for more detailed features description please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

“☑” means to be chosen or applicable; “☐” means don't to be chosen or not applicable; This note applies to entire report.

2.2. Accessories of EUT

Accessories	Manufacturer	Model number	Description
/	/	/	/

2.3. Block diagram of EUT configuration for test



2.4. Decision of final test mode

According pre-test, the worst test modes were reported as below, the pathloss of external cable: 0.5dB (According to the manufacturer's claims):

Tested mode, channel information		
Mode	Channel	Frequency (MHz)
TX mode	/	433.92

2.5. Deviations of test standard

No deviation.

2.6. Test environment conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature range:	21-25 °C
Humidity range:	40-75%
Pressure range:	86 kPa to106 kPa

Note: The specific temperature and humidity information of each test item refers to the temperature and humidity record in the corresponding test data.

2.7. Test laboratory

Guangdong Dongdian Testing Service Co., Ltd.

Add.: Unit 2, Building 1, No. 17, Zongbu 2nd Road, Songshan Lake Park, Dongguan, Guangdong, China, 523808.

Tel.: +86-0769-38826678, <http://www.dgddt.com>, Email: ddt@dgddt.com.

CNAS Accreditation No. L6451; A2LA Accreditation Number: 3870.01

FCC Designation Number: CN1182, Test Firm Registration Number: 540522

Innovation, Science and Economic Development Canada Site Registration Number: 10288A

Conformity Assessment Body identifier: CN0048

VCCI facility registration number: C-20087, T-20088, R-20123, R-20240, G-20118

2.8. Measurement uncertainty

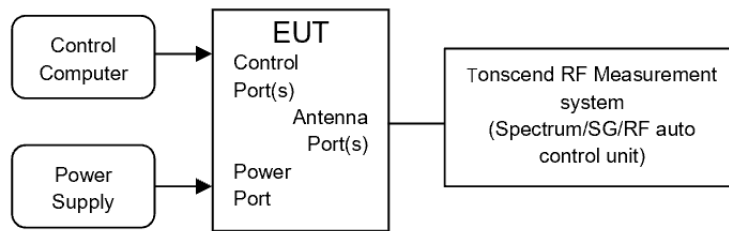
Test Item	Uncertainty
Bandwidth	1.1%
Peak Output Power (Conducted) (Spectrum analyzer)	0.86 dB ($10 \text{ MHz} \leq f < 3.6 \text{ GHz}$); 1.38 dB ($3.6 \text{ GHz} \leq f < 8 \text{ GHz}$)
Peak Output Power (Conducted) (Power Sensor)	0.74 dB
Power Spectral Density	0.74 dB ($10 \text{ MHz} \leq f < 3.6 \text{ GHz}$); 1.38 dB ($3.6 \text{ GHz} \leq f < 8 \text{ GHz}$)
Frequencies Stability	6.7×10^{-8} (Antenna couple method) 5.5×10^{-8} (Conducted method)
Conducted spurious emissions	0.86 dB ($10 \text{ MHz} \leq f < 3.6 \text{ GHz}$); 1.40 dB ($3.6 \text{ GHz} \leq f < 8 \text{ GHz}$) 1.66 dB ($8 \text{ GHz} \leq f < 26.5 \text{ GHz}$)
Uncertainty for radio frequency (RBW < 20 kHz)	3×10^{-8}
Temperature	0.4 °C
Humidity	2 %
Uncertainty for Radiation Emission test (9 kHz – 30 MHz)	3.44 dB
Uncertainty for Radiation Emission test (30 MHz - 1 GHz)	4.70 dB (Antenna Polarize: V) 4.84 dB (Antenna Polarize: H)
Uncertainty for Radiation Emission test (1 GHz - 40 GHz)	4.10 dB (1 - 6 GHz) 4.40 dB (6 GHz - 18 GHz) 3.54 dB (18 GHz - 26 GHz) 4.30 dB (26 GHz - 40 GHz)
Uncertainty for Power line conduction emission test	3.34dB (150KHz-30MHz) 3.72dB (9KHz-150KHz)
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	

3. EQUIPMENT USED DURING CONDUCTIVE TEST

Equipment	Manufacturer	Model No.	Serial Number	Due Date
☒ RF Connected Test (RF Measurement System 2#)				
SPECTRUM ANALYZER	R&S	FSU26	201124	2026/07/06
Power Sensor	R&S	NRP-Z22	101254	2026/07/06
Test Software	Tonscend	JS1120-3	Ver.3.2.22	N/A

4. On Time and Duty Cycle

4.1. Block diagram of test setup



4.2. Limits

None: for reporting purposes only.

4.3. Test procedure

Set the Centre frequency of the spectrum analyzer to the transmitting frequency;
Set the span=0 MHz, RBW=1 MHz, VBW=1 MHz, Sweep time=100 ms;
Trace mode = Single hold.

4.4. Test result

Test Engineer:	Zeng Zhongyao	Test Site:	RF Measurement System 2#
Ambient Condition:	23.5 °C, 55%RH	Test Date:	2025/11/7 - 2025/12/17
Test Power Supply:	Battery	Sample Number:	S25042252-001

Test Channel[MHz]	Duty Cycle[%]	20log(Δ) Factor[dB]
433.92	9.1	-20.82
Note 1: The transmitter duty cycle was measured using a spectrum analyser in the time domain and calculated by below Equation: $\Delta=0.35\times26=9.1\text{ms}$ $\delta(\text{dB})=20\log(\Delta)=20\log(9.1/100)=-20.82\text{dB}$ δ is the duty cycle correction factor (dB) Δ is the duty cycle (dimensionless) Note 2: In cases where the pulse train exceeds 0.1 s, the measured field strength shall be determined during a 0.1 s interval		

Duty Cycle (100ms)

Ref: 28 dBm Att: 55 dB RBW: 10 MHz VBW: 10 MHz SVF: 100 ns

Center: 433.92 MHz 10 ns/

Delta 2 [T1] 1.14 dB 3.934295 ns

Mirrored 1 [T1] 6.44 dB 472.75410 ps

Delta 1 [T1] 2.52 dB 352.584103 ps

Duty Cycle

Ref: 28 dBm Att: 55 dB RBW: 10 MHz VBW: 10 MHz SVF: 5 ns

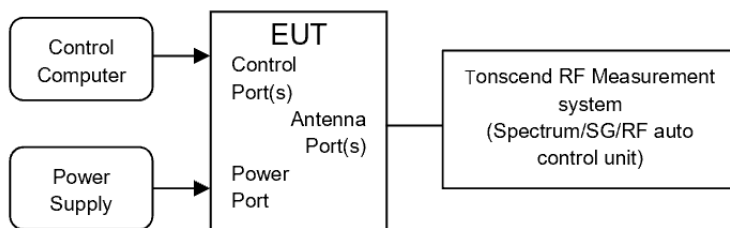
Center: 433.92 MHz 500 μs/

Date: 17. DEC. 2025 14:55:07

Date: 17. DEC. 2025 14:52:33

5. 20dB Bandwidth and 99% Bandwidth

5.1. Block diagram of test setup



5.2. Limits

The bandwidth of the emission shall be no wider than 0.25% of the center frequency of devices operation above 70MHz and below 900MHz.

5.3. Test procedure

(1) Connect EUT's antenna output to spectrum analyzer by RF cable.

(2) Set the spectrum analyzer as follows:

RBW:	1% to 5% of the OBW
VBW:	approximately three times RBW
Span:	between 2 times and 5 times the OBW
Detector Mode:	Peak
Sweep time:	Auto
Trace mode:	Max hold

(3) Allow the trace to stabilize, measure the 20 dB bandwidth of signal.

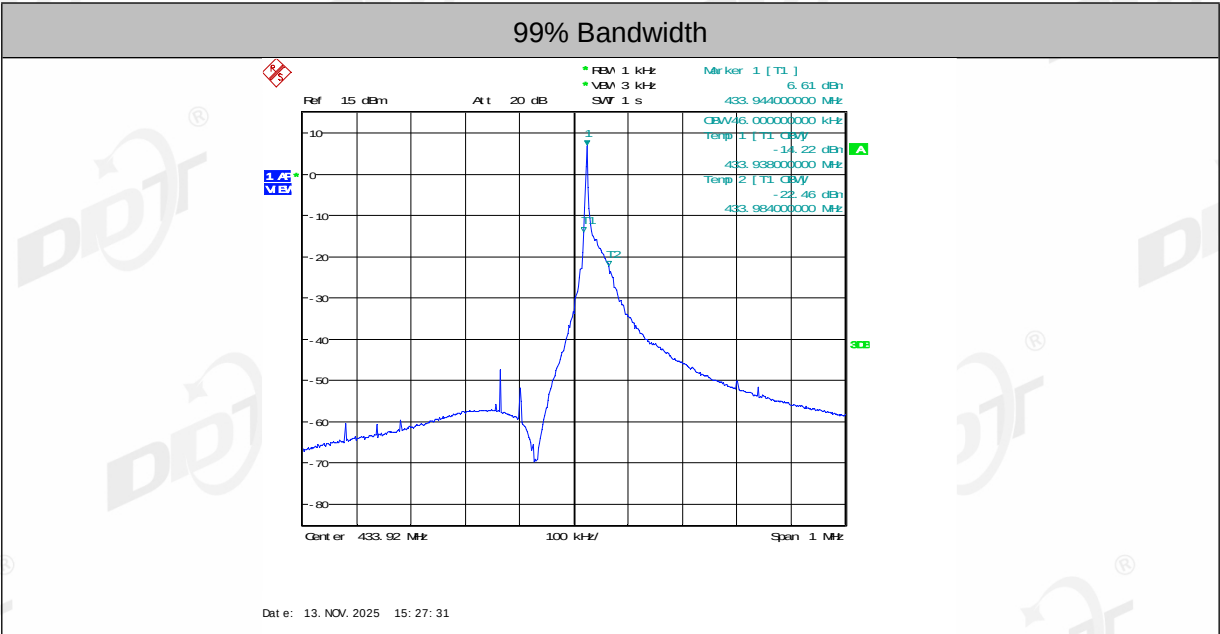
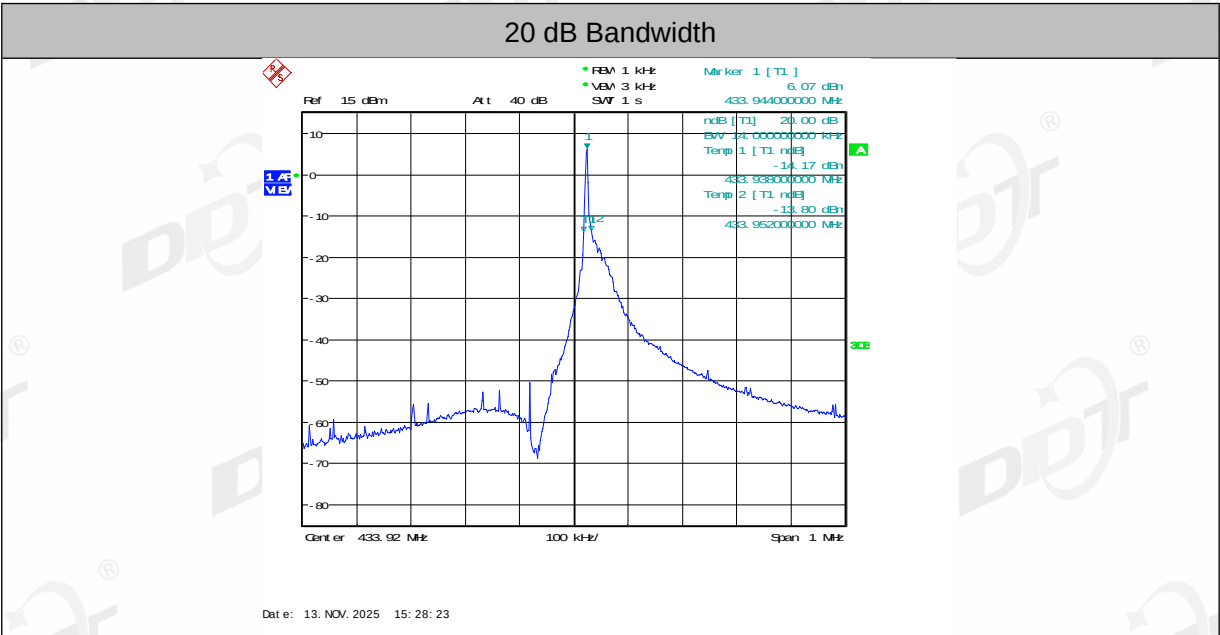
(4) Use the 99% power bandwidth function of the instrument and report the measured bandwidth.

5.4. Test result

Test Engineer:	Zeng Zhongyao	Test Site:	RF Measurement System 2#	
Ambient Condition:	23.5 °C, 55%RH	Test Date:	2025/11/7 - 2025/12/17	
Test Power Supply:	Battery	Sample Number:	S25042252-001	

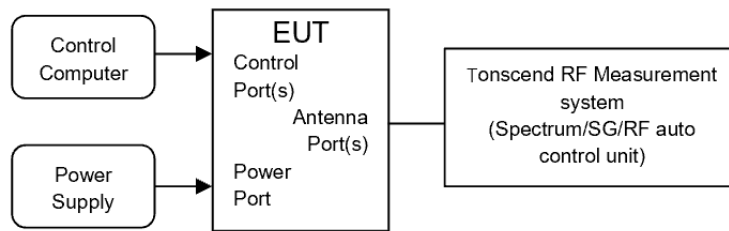
Frequency [MHz]	20 dB Bandwidth [kHz]	99% Bandwidth [kHz]	Limit	Verdict
433.92	14.000	46.000	433.92 MHz*0.25%=1084.8 kHz	PASS

5.5. Test graphs



6. Stop Transmitting Time Test

6.1. Block diagram of test setup



6.2. Limits

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

6.3. Test procedure

- (1) The EUT's RF signal was coupled to spectrum analyzer by antenna connected to spectrum analyzer.
- (2) Set the spectrum to zero span mode, and centered of EUT frequency.
- (3) Measure the stop transmitting time after release EUT button.

6.4. Test result

Test Engineer:	Zeng Zhongyao	Test Site:	RF Measurement System 2#
Ambient Condition:	23.5 °C, 55%RH	Test Date:	2025/11/7 - 2025/12/17
Test Power Supply:	Battery	Sample Number:	S25042252-001

Frequency [MHz]	Burst Duration [s]	Limit [s]	Verdict
433.92	0.192	≤5	PASS

Stop transmitting time

Ref 20 dBm Att 45 dB SW 8 s

Marker 1 [T1]
9.94 dBm
559.282051 ns

Delta 1 [T1]
-0.05 dB
192.307692 ns

Delta 2 [T1]
-39.68 dB
5.402256 s

Center 433.92 MHz 800 ns/

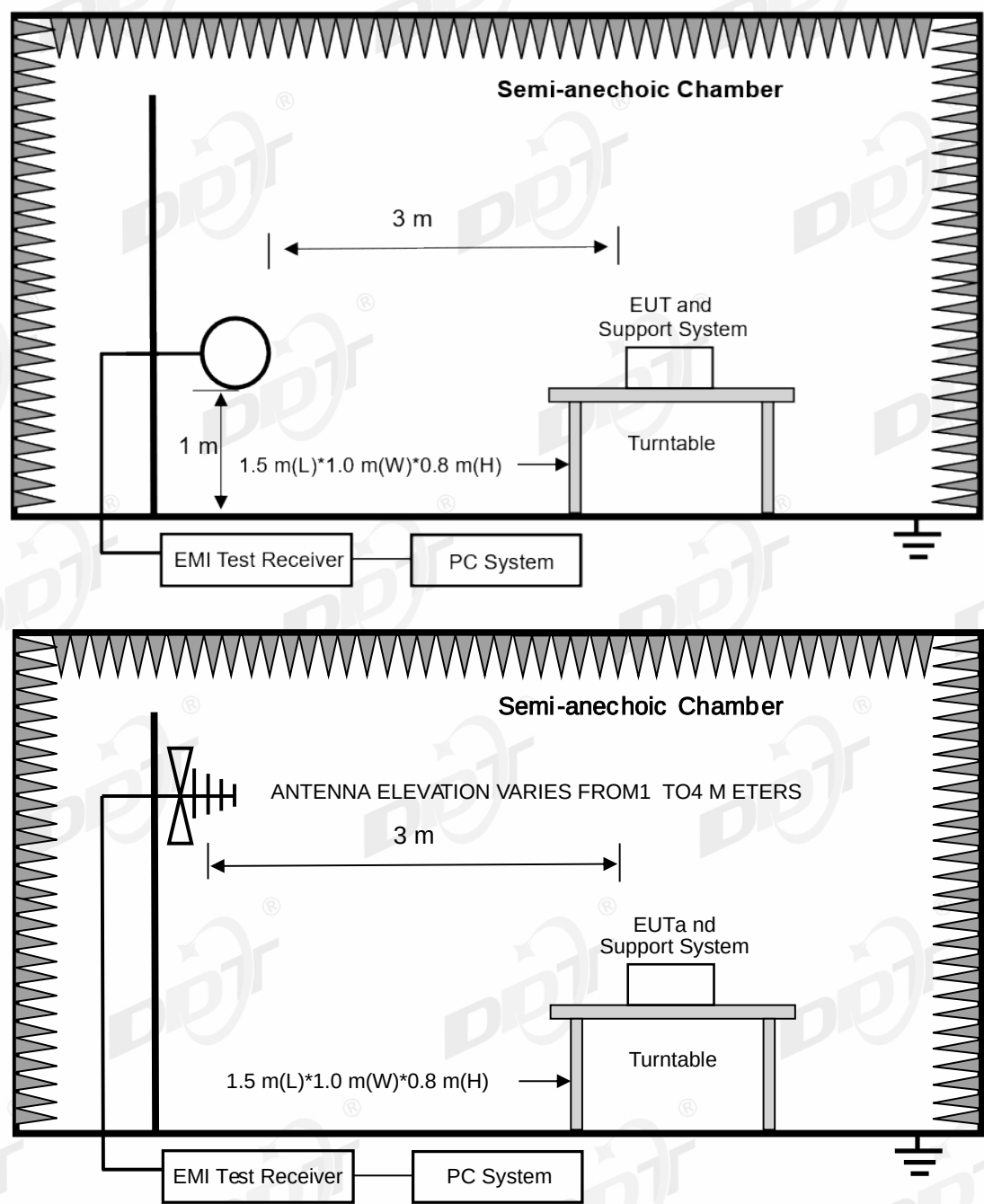
Date: 17. DEC. 2025 16:36:02

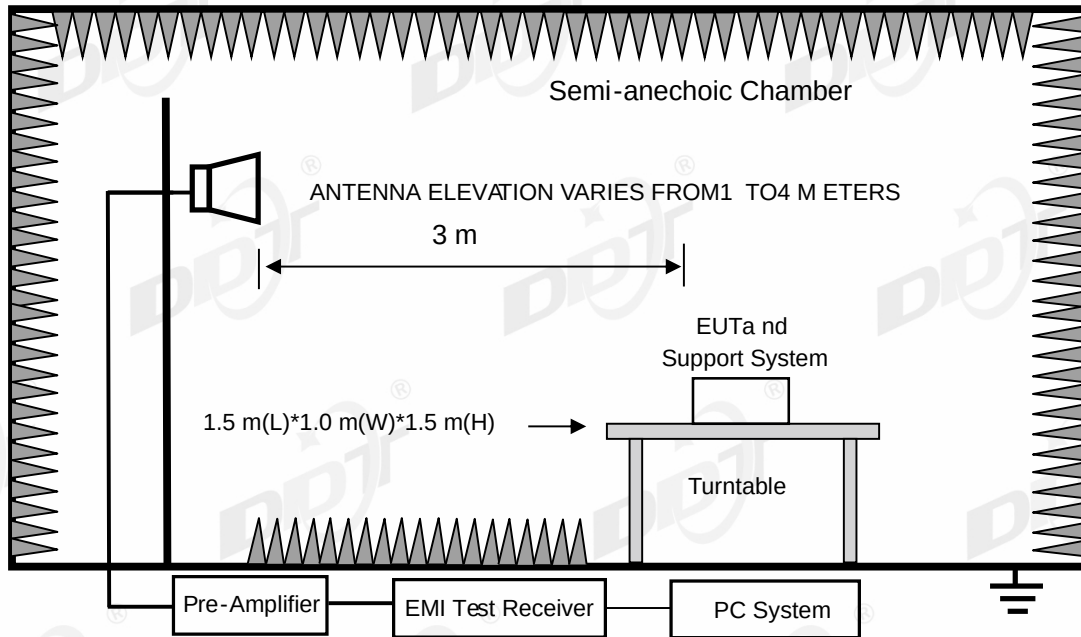
7. Radiated Emission

7.1. Test equipment

Equipment	Manufacturer	Model No.	Serial No.	Cal Due To
High pass filter	Micro-Tronics	HPM50102	DDT-ZC00561	2026/03/28
Radiation disturbance fully automated test software	Tonscend	JS32-RE	DDT-ZC02739	/
Pre-amplifier	SONOMA	310N	DDT-ZC01969	2026/07/06
RF Cable	N/A	W24.02 HL-562	DDT-ZC04022	2026/03/28
RF cable	Yuhu Technology	JCTB810-NJ-NJ-9M	DDT-ZC02538	2026/03/28
RF cable	Zhongke Junchuang	JCT26S-NJ-NJ-1.5M	DDT-ZC02762	/
RF cable	Yuhu Technology	ZT26S-SMAJ-SMAJ-1M	DDT-ZC02037	2026/10/10
RF Cable	N/A	W13.02 AP1-X2	DDT-ZC04023	2026/03/28
Pre-amplifier	COM-POWER	PAM-840A	DDT-ZC01693	2026/03/28
Pre-amplifier	COM-POWER	PAM-118A	DDT-ZC01293	2026/08/10
EMI TEST RECEIVER	R&S	ESU26	DDT-ZC01909	2026/03/28
Micro-Tronics filters	REBES	BRM50702	DDT-ZC03242	/
High pass filter	Micro-Tronics	HPM50108	DDT-ZC00560	2026/03/28
High Pass filter	Xi'an Xingbo	XBLBQ-GTA67	DDT-ZC02179	2026/03/28
Micro-Tronics filters	REBES	BRM50716	DDT-ZC03240	/
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	DDT-ZC00506	2026/04/01
Trilog Broadband Antenna	Schwarzbeck	VULB 9163	DDT-ZC02050	2026/07/25
Hochgewinn-Hornantenne	SCHWARZBEC K	BBHA 9120 D	DDT-ZC02129	2026/08/11
Active Loop Antenna	Schwarzbeck	FMZB1519	DDT-ZC00524	2026/08/18
PSA Series Spectrum Analyzer	Agilent	E4447A	DDT-ZC00517	2026/03/28

7.2. Block diagram of test setup





7.3. Limits

(1) FCC 15.205 Restricted frequency band

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
10.495-0.505	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
4.1772&4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.2072&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	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.6
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			

(2) FCC 15.209 Limit.

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		$\mu\text{V/m}$	$\text{dB}(\mu\text{V})/\text{m}$
0.009 ~ 0.490	300	$2400/\text{F}(\text{kHz})$	$67.6-20\log(\text{F})$
0.490 ~ 1.705	30	$24000/\text{F}(\text{kHz})$	$87.6-20\log(\text{F})$
1.705 ~ 30.0	30	30	29.54
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3	74.0 $\text{dB}(\mu\text{V})/\text{m}$ (Peak) 54.0 $\text{dB}(\mu\text{V})/\text{m}$ (Average)	

(3) FCC 15.231 section (e) limit

Fundamental Frequency (MHz)	Field Strength of Fundamental	Field strength of spurious emission
433.92	AV:80.82 dBuV/m @3m PK:100.82 dBuV/m @3m	AV:60.82 dBuV/m @3m PK:80.82 dBuV/m @3m

Note:

(1) The emission limits shown in the above table are based on measurements employing a CISPR QP detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000MHz. Radiated emissions limits in these three bands are based on measurements employing an average detector.

(2) At frequencies below 30MHz, measurement may be performed at a distance closer than that specified, and the limit at closer measurement distance can be extrapolated by below formula:

$$\text{Limit}_{3\text{m}}(\text{dBuV/m}) = \text{Limit}_{300\text{m}}(\text{dBuV/m}) + 40\log(300\text{m}/3\text{m}) = \text{Limit}_{300\text{m}}(\text{dBuV/m}) + 80$$

$$\text{Limit}_{3\text{m}}(\text{dBuV/m}) = \text{Limit}_{30\text{m}}(\text{dBuV/m}) + 40\log(30\text{m}/3\text{m}) = \text{Limit}_{30\text{m}}(\text{dBuV/m}) + 40$$

(3) Limit for this EUT

All the emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions include fundamental emission shall not exceed FCC 15.231 section (e) limit of comply with FCC 15.209 limit which permit higher emission level.

7.4. Assistant equipment used for test

Assistant equipment	Manufacturer	Model number	Description	other
/	/	/	/	/

7.5. Test procedure

(1) EUT was placed on a non-metallic table, 80 cm above the ground plane inside a semi-anechoic chamber.

(2) Test antenna was located 3m from the EUT on an adjustable mast, and the antenna used as below table.

Test frequency range	Test antenna used	Test antenna distance
30MHz-1GHz	Trilog Broadband Antenna	3m

The Trilog Broadband Antenna or Horn Antenna was located 3m from EUT, Measurements were made with the antenna positioned in both the horizontal and vertical planes of Polarization, and the measurement antenna was varied from 1 m to 4 m. in height above the reference ground plane to obtain the maximum signal strength.

(3) Below pre-scan procedure was first performed in order to find prominent frequency spectrum radiated emissions:

(a) Scanning the peak frequency spectrum with the antenna specified in step (3), and the EUT was rotated 360 degree, the antenna height was varied from 1m to 4m(Except loop antenna, it's fixed 1m above ground.)

(b) Change work frequency or channel of device if practicable.

(c) Change modulation type of device if practicable.

(d) Change power supply range from 85% to 115% of the rated supply voltage

(e) Rotated EUT though three orthogonal axes to determine the attitude of EUT arrangement produces highest emissions.

(4) For final emissions measurements at each frequency of interest, the EUT was rotated and the antenna height was varied between 1m and 4m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.10-2020 on Radiated Emission test.

(5) The emissions from 9kHz to 1GHz were measured based on CISPR QP detector except for the frequency bands 9-90kHz, 110-490kHz, for emissions from 9kHz-90kHz,110kHz-490kHz and above 1GHz were measured based on average detector, for emissions above 1GHz, peak emissions also be measured and need comply with Peak limit.

(6) The emissions from 9kHz to 1GHz, QP or average values were measured with EMI receiver with below RBW.

Frequency band	RBW
30MHz-1GHz	120kHz

(7) X axis, Y axis, Z axis are tested, and worse setup X axis is reported

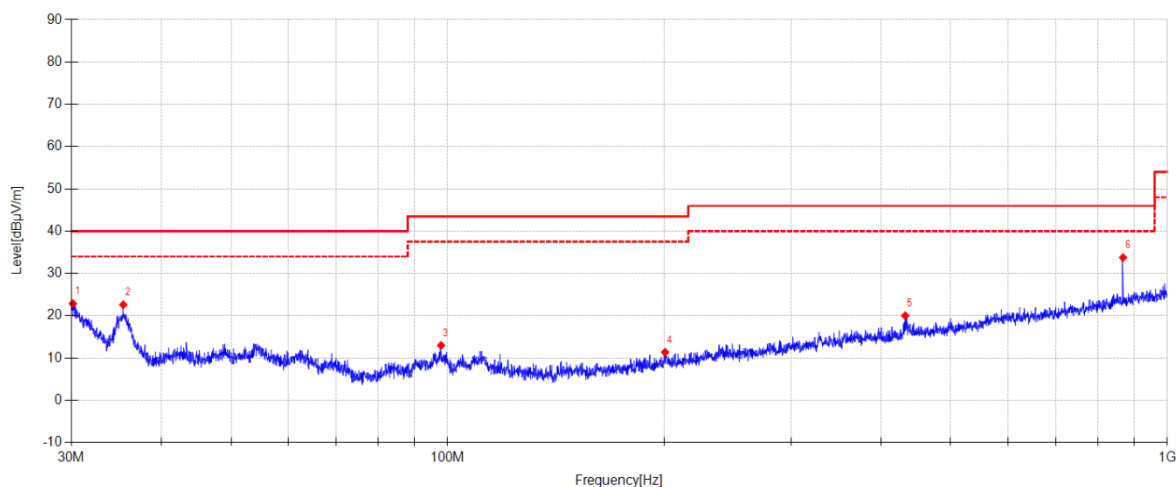
7.6. Test result

PASS. (See below detailed test result)

7.7. Test data

TR-4-E-009 Radiated Emission Test Result

Test Date: 2025-11-17 **Tested By:** Nan Zhong
EUT: Remote Control **Model Number:** YKQ-01
Test Mode: TX 433.92MHz Mode **Power Supply:** Battery
Condition: Temp:21.9°C;Humi:50.5% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2025 test date\fudian\1117 RF\27
Memo: Sample Number:S25042252-001



Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	30.148	40.91	10.47	3.78	-32.30	22.86	40.00	17.14	PK	Horizontal
2	35.423	39.49	11.55	3.86	-32.30	22.60	40.00	17.40	PK	Horizontal
3	97.912	29.80	11.20	4.29	-32.30	12.99	43.50	30.51	PK	Horizontal
4	200.471	27.65	11.24	4.88	-32.40	11.37	43.50	32.13	PK	Horizontal
5	432.315	30.73	15.99	5.82	-32.53	20.01	46.00	25.99	PK	Horizontal
6	867.937	37.34	21.45	7.06	-32.09	33.76	46.00	12.24	PK	Horizontal

Note:

1. Result Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2025-11-17

Tested By: Nan Zhong

EUT: Remote Control

Model Number: YKQ-01

Test Mode: TX 433.92MHz Mode

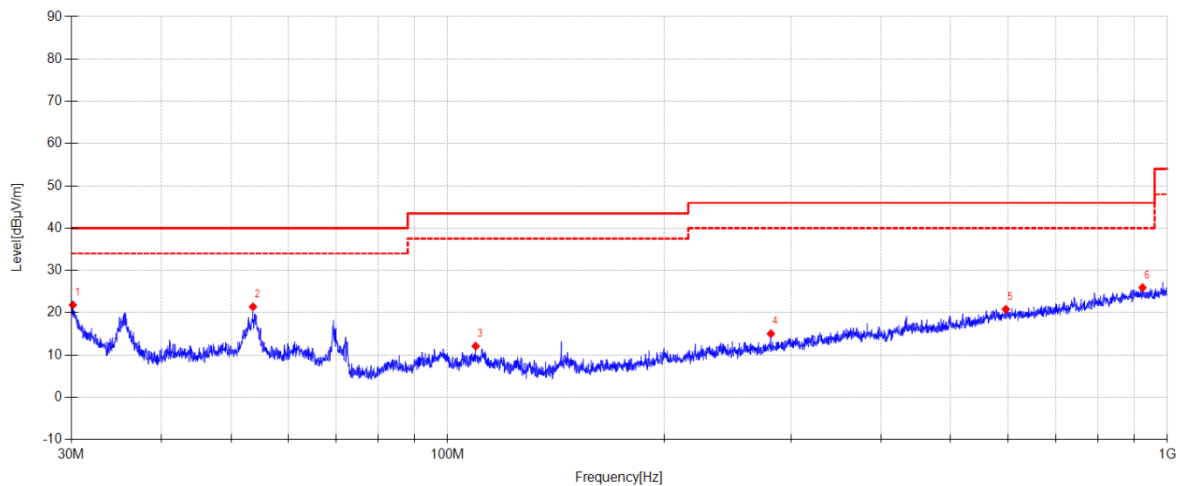
Power Supply: Battery

Condition: Temp:21.9°C;Humi:50.5%

Test Site: DDT 3# Chamber

File Path: d:\ts\2025 test date\fudian\1117 RF\28

Memo: Sample Number:S25042252-001



Suspected Data List

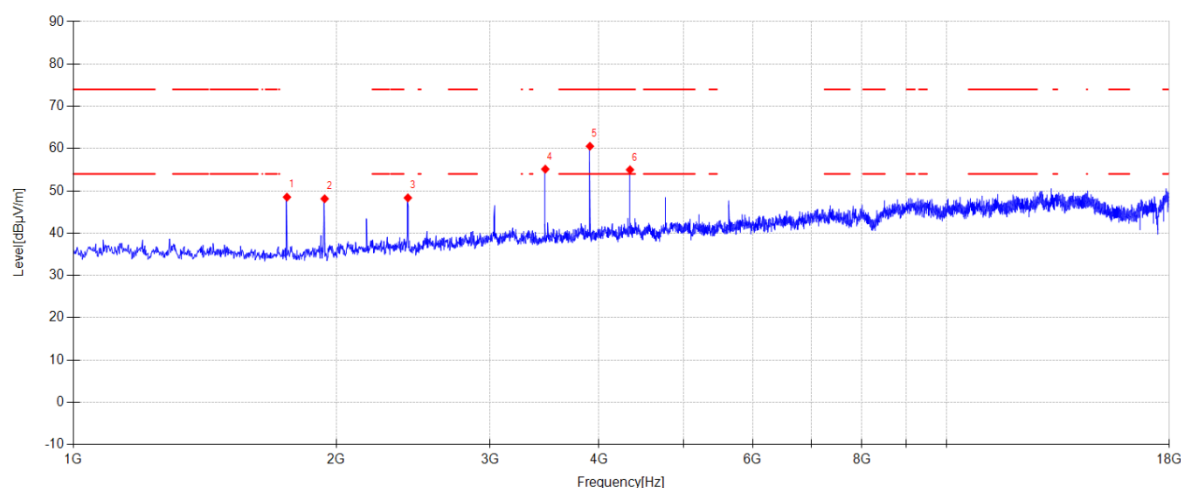
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	30.148	39.88	10.47	3.78	-32.30	21.83	40.00	18.17	PK	Vertical
2	53.649	36.36	13.33	4.01	-32.30	21.40	40.00	18.60	PK	Vertical
3	109.383	27.97	12.09	4.35	-32.31	12.10	43.50	31.40	PK	Vertical
4	281.276	29.13	13.10	5.21	-32.40	15.04	46.00	30.96	PK	Vertical
5	596.448	28.04	19.22	6.39	-32.84	20.81	46.00	25.19	PK	Vertical
6	923.825	28.53	22.00	7.17	-31.76	25.94	46.00	20.06	PK	Vertical

Note:

1. Result Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2025-11-17 Tested By: Nan Zhong
EUT: Remote Control Model Number: YKQ-01
Test Mode: TX 433.92MHz Mode Power Supply: Battery
Condition: Temp:21.9°C;Humi:50.5% Test Site: DDT 3# Chamber
File Path: d:\ts\2025 test date\fudian\1117 RF\23
Memo: Sample Number:S25042252-001



Suspected Data List

NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	1756.500	57.55	25.60	3.13	-37.76	48.52	-	-	PK	Horizontal
2	1940.100	56.72	26.20	3.30	-38.09	48.13	-	-	PK	Horizontal
3	2416.100	55.87	27.34	3.80	-38.66	48.35	-	-	PK	Horizontal
4	3471.800	60.61	29.52	4.50	-39.49	55.14	-	-	PK	Horizontal
5	3905.300	64.81	30.84	4.56	-39.66	60.55	74.00	13.45	PK	Horizontal
6	4340.500	58.49	31.43	4.80	-39.73	54.99	74.00	19.01	PK	Horizontal

Suspected Data List

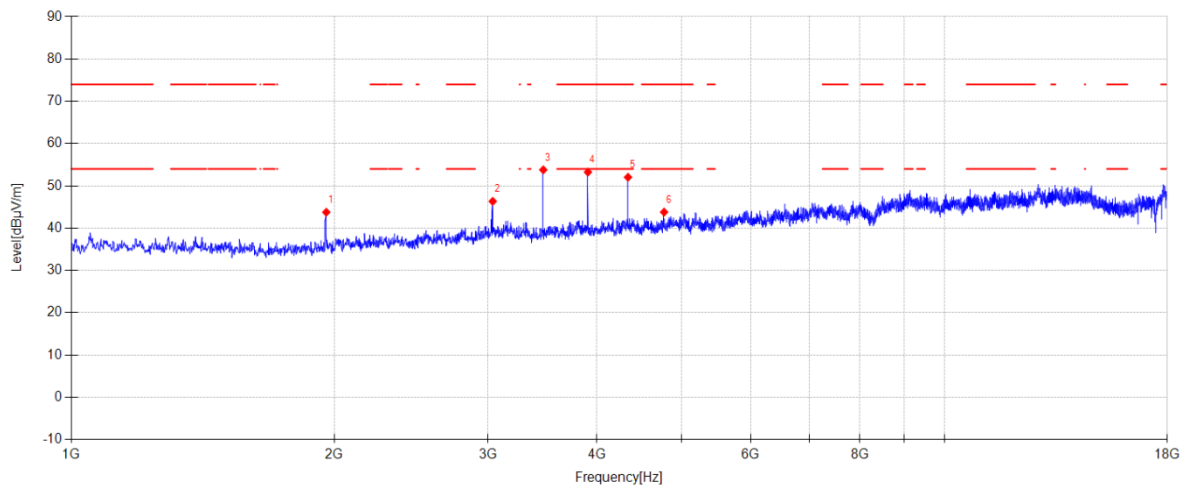
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
4	3471.800	/	/	/	/	34.32	60.82	26.5	AV	Horizontal
5	3905.300	/	/	/	/	40.73	60.82	20.09	AV	Horizontal
6	4340.500	/	/	/	/	36.17	60.82	24.65	AV	Horizontal

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. AVG Level=Peak level+20log (D) , D= Duty Cycle =36.35%

TR-4-E-009 Radiated Emission Test Result

Test Date: 2025-11-17 **Tested By:** Nan Zhong
EUT: Remote Control **Model Number:** YKQ-01
Test Mode: TX 433.92MHz Mode **Power Supply:** Battery
Condition: Temp:21.9°C;Humi:50.5% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2025 test date\fudian\1117 RF\24
Memo: Sample Number:S25042252-001

**Suspected Data List**

NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	1958.800	52.29	26.29	3.31	-38.13	43.76	-	-	PK	Vertical
2	3038.300	51.65	29.58	4.44	-39.32	46.35	-	-	PK	Vertical
3	3471.800	59.26	29.52	4.50	-39.49	53.79	-	-	PK	Vertical
4	3905.300	57.51	30.84	4.56	-39.66	53.25	74.00	20.75	PK	Vertical
5	4340.500	55.54	31.43	4.80	-39.73	52.04	74.00	21.96	PK	Vertical
6	4774.000	46.32	32.15	5.10	-39.78	43.79	74.00	30.21	PK	Vertical

Suspected Data List

NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
3	3471.800	/	/	/	/	32.97	60.82	27.85	AV	Vertical
4	3905.300	/	/	/	/	33.43	60.82	27.39	AV	Vertical
5	4340.500	/	/	/	/	33.22	60.82	27.6	AV	Vertical

Note:

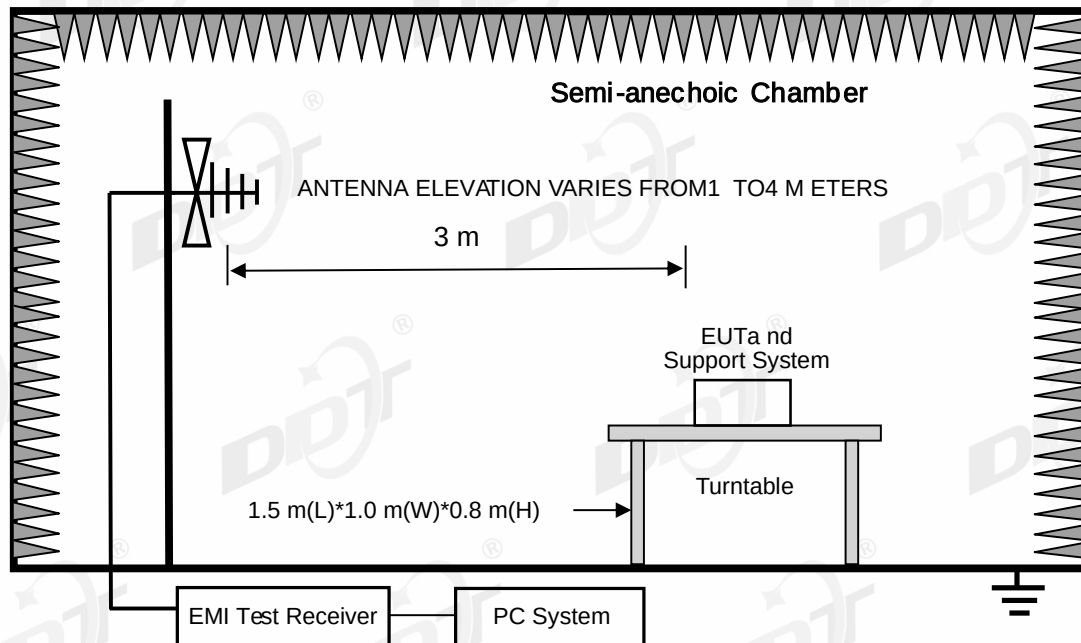
1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. AVG Level=Peak level+20log (D) , D= Duty Cycle =36.35%

8. Field Strength Of The Fundamental Signal

8.1. Test equipment

Equipment	Manufacturer	Model No.	Serial No.	Cal Due To
High pass filter	Micro-Tronics	HPM50102	DDT-ZC00561	2026/03/28
Radiation disturbance fully automated test software	Tonscend	JS32-RE	DDT-ZC02739	/
Pre-amplifier	SONOMA	310N	DDT-ZC01969	2026/07/06
RF Cable	N/A	W24.02 HL-562	DDT-ZC04022	2026/03/28
RF cable	Yuhu Technology	JCTB810-NJ-NJ-9M	DDT-ZC02538	2026/03/28
RF cable	Zhongke Junchuang	JCT26S-NJ-NJ-1.5M	DDT-ZC02762	/
RF cable	Yuhu Technology	ZT26S-SMAJ-SMAJ-1M	DDT-ZC02037	2026/10/10
RF Cable	N/A	W13.02 AP1-X2	DDT-ZC04023	2026/03/28
Pre-amplifier	COM-POWER	PAM-840A	DDT-ZC01693	2026/03/28
Pre-amplifier	COM-POWER	PAM-118A	DDT-ZC01293	2026/08/10
EMI TEST RECEIVER	R&S	ESU26	DDT-ZC01909	2026/03/28
Micro-Tronics filters	REBES	BRM50702	DDT-ZC03242	/
High pass filter	Micro-Tronics	HPM50108	DDT-ZC00560	2026/03/28
High Pass filter	Xi'an Xingbo	XBLBQ-GTA67	DDT-ZC02179	2026/03/28
Micro-Tronics filters	REBES	BRM50716	DDT-ZC03240	/
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	DDT-ZC00506	2026/04/01
Trilog Broadband Antenna	Schwarzbeck	VULB 9163	DDT-ZC02050	2026/07/25
Hochgewinn-Hornantenne	SCHWARZBEC K	BBHA 9120 D	DDT-ZC02129	2026/08/11
Active Loop Antenna	Schwarzbeck	FMZB1519	DDT-ZC00524	2026/08/18
PSA Series Spectrum Analyzer	Agilent	E4447A	DDT-ZC00517	2026/03/28

8.2. Block diagram of test setup



8.3. Limits

(3) FCC 15.231 section (a) limit

Fundamental Frequency (MHz)	Field Strength of Fundamental
433.92	AV: 80.83 dBuV/m @3m PK: 100.83dBuV/m @3m

8.4. Assistant equipment used for test

Assistant equipment	Manufacturer	Model number	Description	other
/	/	/	/	/

8.5. Test procedure

(1) EUT was placed on a non-metallic table, 80 cm above the ground plane inside a semi-anechoic chamber.

(2) Test antenna was located 3m from the EUT on an adjustable mast, and the antenna used as below table.

Test frequency range	Test antenna used	Test antenna distance
30MHz-1GHz	Trilog Broadband Antenna	3m

The Trilog Broadband Antenna or Horn Antenna was located 3m from EUT, Measurements were made with the antenna positioned in both the horizontal and vertical planes of Polarization, and the measurement antenna was varied from 1 m to 4 m. in height above the reference ground plane to

obtain the maximum signal strength.

(3) Below pre-scan procedure was first performed in order to find prominent frequency spectrum radiated emissions:

(a) Scanning the peak frequency spectrum with the antenna specified in step (3), and the EUT was rotated 360 degree, the antenna height was varied from 1m to 4m(Except loop antenna, it's fixed 1m above ground.)

(b) Change work frequency or channel of device if practicable.

(c) Change modulation type of device if practicable.

(d) Change power supply range from 85% to 115% of the rated supply voltage

(e) Rotated EUT though three orthogonal axes to determine the attitude of EUT arrangement produces highest emissions.

(4) For final emissions measurements at each frequency of interest, the EUT was rotated and the antenna height was varied between 1m and 4m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.10-2020 on Radiated Emission test.

(5) The emissions from 9kHz to 1GHz were measured based on CISPR QP detector except for the frequency bands 9-90kHz, 110-490kHz, for emissions from 9kHz-90kHz,110kHz-490kHz and above 1GHz were measured based on average detector, for emissions above 1GHz, peak emissions also be measured and need comply with Peak limit.

(6) The emissions from 9kHz to 1GHz, QP or average values were measured with EMI receiver with below RBW.

Frequency band	RBW
30MHz-1GHz	120kHz

(7) X axis, Y axis, Z axis are tested, and worse setup X axis is reported.

8.6. Test result

Frequency (MHz)	PK Level (dBuV/m)	PK Limit Line (dBuV/m)	Margin (dB)	Polarization
433.92	78.23	100.82	22.59	Horizontal
433.92	64.22	100.82	36.6	Vertical

Frequency (MHz)	AV Level (dBuV/m)	AV Limit Line (dBuV/m)	Margin (dB)	Polarization
433.92	57.41	80.82	23.41	Horizontal
433.92	44.4	80.82	36.42	Vertical

Note: AV Level= PK Level+ Duty factor

9. Antenna Requirement

9.1. Assessment procedure

The antenna used for this product is inductive PCB antenna and that no antenna other than that furnished by the responsible party shall be used with the device.

9.2. Assess result

The antenna used for this product is inductive PCB antenna and that no antenna other than that furnished by the responsible party shall be used with the device.

11. Photos of the EUT

Please refer to DDT-Q25042252-5E appendix I

-----End Report-----