Project No.: ZKT-220927L5301-01 Page 1 of 31

FCC TEST REPORT FCC ID: 2A8YY-H6072

Report Number.....: ZKT-220927L5301-01

Date of Test.....: Sep. 13, 2022 to Oct. 20, 2022

Date of issue.....: Oct. 20, 2022

Total number of pages: 31

Test Result: PASS

Testing Laboratory. Shenzhen ZKT Technology Co., Ltd.

Applicant's name: Shenzhen Deyi Electronic Technology Co., Ltd.

3/ F, No.6, Caowei Road, Caowei Community, Hangcheng Street, Address Bao'an District, Shenzhen

Manufacturer's name: Shenzhen Deyi Electronic Technology Co., Ltd.

3/ F, No.6, Caowei Road, Caowei Community, Hangcheng Street,

Address Bao'an District, Shenzhen

Test specification:

Standard FCC CFR Title 47 Part 15 Subpart C Section 15.231 ANSI C63.10:2013

Test procedure.....: /

Non-standard test method: N/A

Test Report Form No.: TRF-EL-108_V0

Test Report Form(s) Originator: ZKT Testing

Master TRF Dated: 2020-01-06

This device described above has been tested by ZKT, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Product name.....: Infrared remote control

Trademark: /

Model/Type reference: H6072, DY-RF-44J, DY-RF-2021, DY-RF-021, DY-RF-2029,

DY-RF-1140, DY-RF-012, DY-RF-024

Ratings: DC 3.0V from battery

Project No.: ZKT-220927L5301-01 Page 2 of 31

Testing procedure and testing location:	
Testing Laboratory: Address	Shenzhen ZKT Technology Co., Ltd. 1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China
Tested by (name + signature):	Aun. Ne
Reviewer (name + signature):	Joe. Lin
Approved (name + signature):	Approved 5

Table of Contents	Page
1. VERSION	5
2. SUMMARY OF TEST RESULTS	6
2.1 TEST FACILITY	7
2.2 MEASUREMENT UNCERTAINTY	7
3.1GENERAL INFORMATION	8
3.1 GENERAL DESCRIPTION OF EUT	8
3.2 DESCRIPTION OF TEST MODES	8
3.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED	8
3.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)	8
3.5 EQUIPMENTS LIST FOR ALL TEST ITEMS	9
4. EMC EMISSION TEST	11
4.1 CONDUCTED EMISSION MEASUREMENT	11
4.1.1 POWER LINE CONDUCTED EMISSION LIMITS 4.1.2 TEST PROCEDURE	11 12
4.1.2 TEST PROCEDURE 4.1.3 DEVIATION FROM TEST STANDARD	12
4.1.4 TEST SETUP	12
4.1.5 EUT OPERATING CONDITIONS	12
4.2 RADIATED EMISSION MEASUREMENT	13
4.2.1 RADIATED EMISSION LIMITS 4.2.2 TEST PROCEDURE	13 14
4.2.3 TEST SETUP	15
4.2.4 EUT OPERATING CONDITIONS	16
4.2.5 TEST RESULT	16
5. BANDWIDTH TEST	20
5.1 APPLIED PROCEDURES / LIMIT 5.2 TEST PROCEDURE	20 20
5.3 DEVIATION FROM STANDARD	20
5.4 TEST SETUP	20
5.5 EUT OPERATION CONDITIONS 5.6 TEST RESULT	20 21
6. CALCULATION OF AVERAGE FACTOR	22
7. DWELL TIME	24
7.1 APPLICABLE STANDARD	24 24
7.1 AFFEICABLE STANDARD 7.2 TEST PROCEDURE	24
7.5 EUT OPERATION CONDITIONS	24
7.6 TEST RESULTS	25
8. ANTENNA REQUIREMENT	26

Table of Contents	Project No.: ZKT-220927L5301-01 Page 4 of 31 Page
9. TEST SETUP PHOTO	27
10. EUT CONSTRUCTIONAL DETAILS	27

Project No.: ZKT-220927L5301-01 Page 5 of 31

1. VERSION

Report No.	Version	Description	Approved
ZKT-220927L5301-01	Rev.01	Initial issue of report	Oct. 20, 2022

Project No.: ZKT-220927L5301-01 Page 6 of 31

2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 (15.231), Subpart C					
Standard Section	Judgment	Remark			
15.207	Conducted Emission	N/A			
15.209 & 15.231b	PASS				
15.231c	Occupy Bandwidth	PASS			
15.231a	Dwell time	PASS			
15.203	Antenna Requirement	PASS			

NOTE:

(1)" N/A" denotes test is not applicable in this Test Report

Project No.: ZKT-220927L5301-01

Page 7 of 31

2.1 TEST FACILITY

Shenzhen ZKT Technology Co., Ltd.

Add.: 1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an

District, Shenzhen, China

FCC Test Firm Registration Number: 692225

Designation Number: CN1299 IC Registered No.: 27033

2.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

No.	Item	Unc rtainty
1	3m camber Radiated spurious emission(30MHz-1GHz)	U=4.3dB
2	3m chamber Radiated spurious emission(1GHz-18GHz)	U=4. dB
3	3m chamber Radiated s urious emission(18GHz-40GHz)	U=3.34dB
4	Conducted Adjacent channel power	U=1.38dB
5	Conducted output power uncertainty Above 1G	U=1.576dB
6	Conducted output power uncertainty below 1G	U=1.28dB
7	humidity uncertainty	U=5.3%
8	Temperature uncertainty	U=0.59℃
9	Radiated disturbance(30MHz- 1000MHz)	U=4.8dB
1	Radiated disturbance(1GHz-6GHz)	U=4.9dB
11	Radiated disturbance(1GHz- 18GHz)	U=5.0dB

Project No.: ZKT-220927L5301-01 Page 8 of 31

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	Infrared remote control
Trade Name	/
Model Name	H6072
Serial Model	DY-RF-44J, DY-RF-2021, DY-RF-021, DY-RF-2029, DY-RF-1140, DY-RF-012, DY-RF-024
Model difference	Their electrical circuit design, layout, components used and internal wiring are identical, Only the name will be different .so the test model: H6072.
Hardware version	V1.0
Software version	1
Operation Frequency:	434MHz
Modulation Type:	ASK
Antenna Type:	PCB antenna
Antenna Gain:	0.83dBi
Ratings	DC 3.0V from battery

3.2 DESCRIPTION OF TEST MODES

For All Emission	
Final Test Mode	Description
Transmitting mode	Keep the EUT in continuously transmitting mode

Note:

(1) Fully-charged battery is used during the test

3.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Conducted Emission Test

N/A

Spurious emissions

EUT	

3.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
E-1					
E-2					

Project No.: ZKT-220927L5301-01 Page 9 of 31

Item	Shielded Type	Ferrite Core	Length	Note

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in <code>"Length_"</code> column.
- (3) "YES" is means "shielded" "with core"; "NO" is means "unshielded" "without core".

3.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

Item	Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	Spectrum Analyzer (9kHz-26.5GHz)	KEYSIGHT	9020A	MY55370835	Oct. 16, 2022	Oct. 15, 2023
2	Spectrum Analyzer (1GHz-40GHz)	R&S	FSQ	100363	Oct. 15, 2022	Oct. 14, 2023
3	EMI Test Receiver (9kHz-7GHz)	R&S	ESCI7	101169	Oct. 16, 2022	Oct. 15, 2023
4	Bilog Antenna (30MHz-1500MHz)	Schwarzbeck	VULB9168	N/A	Oct. 15, 2022	Oct. 14, 2023
5	Horn Antenna (1GHz-18GHz)	Agilent	AH-118	071145	Oct. 15, 2022	Oct. 14, 2023
6	Loop Antenna	TESEQ	HLA6121	58357	Oct. 15, 2022	Oct. 14, 2023
7	Amplifier (30-1000MHz)	EM Electronics	EM330 Amplifier	060747	Oct. 15, 2022	Oct. 14, 2023
8	Amplifier (1GHz-26.5GHz)	Agilent	8449B	3008A00315	Oct. 16, 2022	Oct. 15, 2023
9	RF cables1 (9kHz-30MHz)	N/A	9kHz-30MHz	N/A	Oct. 16, 2022	Oct. 15, 2023
10	RF cables2 (30MHz-1GHz)	N/A	30MHz-1GH z	N/A	Oct. 16, 2022	Oct. 15, 2023
11	RF cables3 (1GHz-40GHz)	N/A	1GHz-40GHz	N/A	Oct. 16, 2022	Oct. 15, 2023
12	ESG Signal Generator	Agilent	E4421B	N/A	Oct. 16, 2022	Oct. 15, 2023
13	Signal Generator	Agilent	N5182A	N/A	Oct. 20, 2022	Oct. 19, 2023
14	Magnetic Field Probe Tester	Narda	ELT-400	0-0344	Oct. 15, 2022	Oct. 14, 2023
15	MWRF Power Meter Test system	MW	MW100-RPC B	N/A	Oct. 20, 2022	Oct. 19, 2023
16	D.C. Power Supply	LongWei	TPR-6405D	N/A	\	\
17	EMC Software	Frad	EZ-EMC	Ver.EMC-CON 3A1.1	\	\
18	RF Software	MW	MTS8310	V2.0.0.0	\	\
19	Turntable	MF	MF-7802BS	N/A	\	\
20	Antenna tower	MF	MF-7802BS	N/A	\	\

Project No.: ZKT-220927L5301-01 Page 10 of 31

Conduction Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	LISN	R&S	ENV216	101471	Oct. 20, 2022	Oct. 19, 2023
2	LISN	CYBERTEK	EM5040A	E185040014 9	Oct. 20, 2022	Oct. 19, 2023
3	Test Cable	N/A	C01	N/A	Oct. 16, 2022	Oct. 15, 2023
4	Test Cable	N/A	C02	N/A	Oct. 16, 2022	Oct. 15, 2023
5	EMI Test Receiver	R&S	ESCI3	101393	Oct. 15, 2022	Oct. 14, 2023
6	EMC Software	Frad	EZ-EMC	Ver.EMC-CO N 3A1.1	\	\

Project No.: ZKT-220927L5301-01 Page 11 of 31

4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

Test Requirement:	FCC Part15 C Section 15.207
Test Method:	ANSI C63.10:2013
Test Frequency Range:	150KHz to 30MHz
Receiver setup:	RBW=9KHz, VBW=30KHz, Sweep time=auto

4.1.1 POWER LINE CONDUCTED EMISSION LIMITS

(Frequency Range 150KHz-30MHz)

EDEOUL NOV (MILL)	Limit (Ota e dans I	
FREQU NCY (MHz)	Quasi-peak	Average	Standard
0.15 -0.5	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	56.00	46.00	FCC
5.0 -30.0	60.00	50.00	FCC

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

Receiver Parameters	Setting	
Attenuation	10 dB	
Start Frequency	0.15 MHz	
Stop Frequency	30 MHz	
IF Bandwidth	9 kHz	

Project No.: ZKT-220927L5301-01 Page 12 of 31

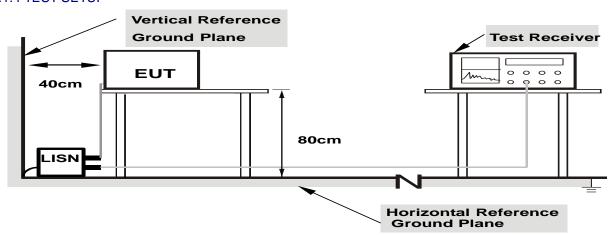
4.1.2 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.

4.1.3 DEVIATION FROM TEST STANDARD

No deviation

4.1.4 TEST SETUP



Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

4.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

4.1.6 test results

N/A (not applicable in this device, which powered by DC3.0V battery)

Project No.: ZKT-220927L5301-01

Page 13 of 31

4.2 RADIATED EMISSION MEASUREMENT

Test Requirement:	FCC Part15 C Section 15.209				
Test Method:	ANSI C63.10:2013				
Test Frequency Range:	9kHz to 25GHz				
Test site:	Measurement Distance: 3m				
Receiver setup:	Frequency Detector		RBW	VBW	Value
	9KHz-150KHz	Quasi-peak	200Hz	600Hz	Quasi-peak
	150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak
	Ab 2012 4 Old -	Peak	1MHz	3MHz	Peak
	Above 1GHz	Peak	1MHz	10Hz	Average

4.2.1 RADIATED EMISSION LIMITS

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.231(b) limit in the table below has to be followed.

Frequen ies(MHz)	Field Strength(micorvolts/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

LIMITS OF RADIATED EMISSION MEASUREMENT

EDECLIENCY (MLI-)	Limit (dBuV/m) (at 3M)		
FREQUENCY (MHz)	PEAK	AVERAGE	
Above 1000	74	54	

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

Project No.: ZKT-220927L5301-01 Page 14 of 31

FUNDAMENTAL AND HARMONICS EMISSION LIMITS

** linear interpolations

Fundamental Frequency (MHz)	Field Strength of Fundamental (microvolts/meter)	Field Strength of Spurious Emissions (microvolts/meter)
40.66 - 40.70	2,250	225
70 - 130	1,250	125
130 - 174	1,250 to 3,750 **	125 to 375 **
174 - 260	3,750	375
260 - 470	3,750 to 12,500 **	375 to 1,250 **
Above 470	12,500	1,250

[[]Where F is the frequency in MHz, the formulas for calculating the maximum permitted fundamental field strengths are as follows: for the band 130-174 MHz, μ V/m at 3 meters = 56.81818(F) - 6136.3636; for the band 260-470 MHz, μ V/m at 3 meters = 41.6667(F) - 7083.3333. The maximum permitted unwanted emission level is 20 dB below the maximum permitted fundamental level.]

FREQUENCY RANGE OF RADIATED MEASUREMENT (For unintentional radiators)

Highest frequency generated or Upper frequency of measurement used in the device or on which the device operates or tunes (MHz)	Range (MHz)	
Below 1.705	30	
1.705 – 108	1000	
108 – 500	2000	
500 – 1000	5000	
Above 1000	5 th harmonic of the highest frequency or 40 GHz, whichever is lower	

Spectrum Parameter	Setting	
Attenuation	Auto	
Start Frequency	1000 MHz	
Stop Frequency	10th carrier harmonic	
RBW / VBW setting	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average	

Receiver Parameter	Setting	
Attenuation	Auto	
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP	
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP	
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP	

4.2.2 TEST PROCEDURE

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; above 1GHz, the height was 1.5m, the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

Project No.: ZKT-220927L5301-01

Page 15 of 31

d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.

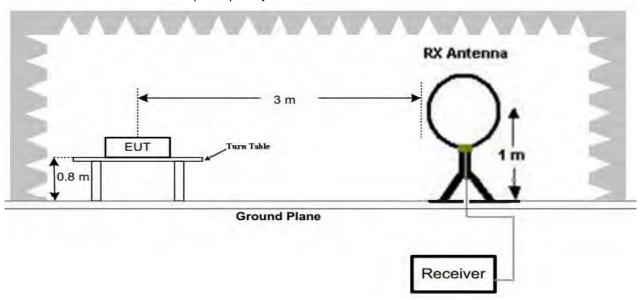
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

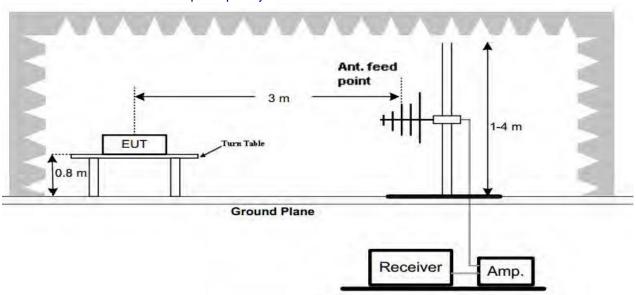
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case was X axis and the emissions were reported

4.2.3 TEST SETUP

(A) Radiated Emission Test-Up Frequency Below 30MHz

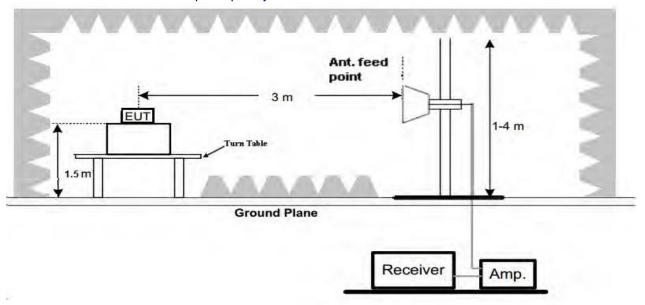


(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



Project No.: ZKT-220927L5301-01 Page 16 of 31

(C) Radiated Emission Test-Up Frequency Above 1GHz



4.2.4 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

4.2.5 TEST RESULT

Radiated Spurious Emission (Below 9KHz - 30MHz)

Temperature :	26 ℃	Relative Humidity:	54%
Pressure :	101 kPa	Polarization :	
Test Voltage : DC3.0V			
Test Mode :	TX Mode		

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
				PASS
				PASS

NOTE:

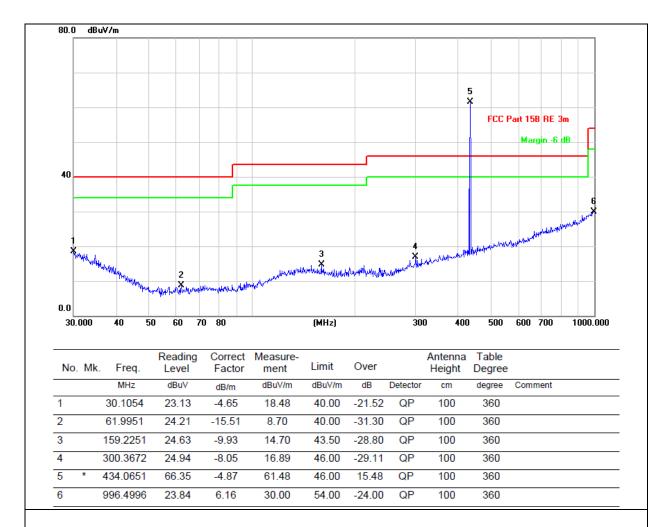
The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor =40 log (specific distance/test distance)(dB); Limit line = specific limits(dBuv) + distance extrapolation factor.

Project No.: ZKT-220927L5301-01 Page 17 of 31

Radiated Spurious Emission (Between 30MHz - 1GHz)

Temperature :	26 ℃	Relative Humidity:	54%
Pressure:	101 kPa	Polarization :	Horizontal
Test Voltage :	DC 3.0V		
Test Mode :	TX Mode		

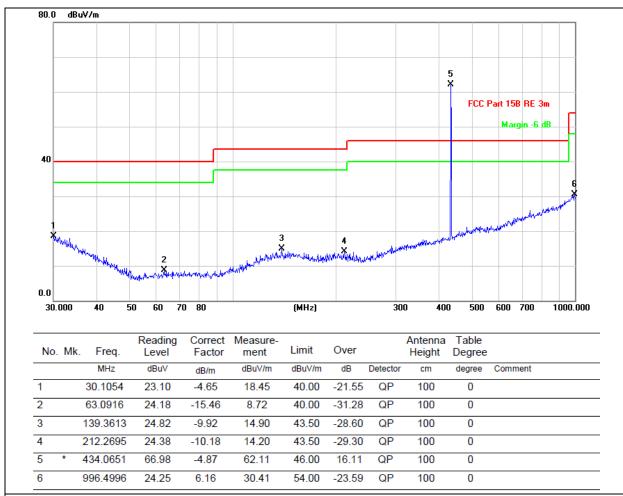


Remarks:

- 1.Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Project No.: ZKT-220927L5301-01 Page 18 of 31

Temperature :	26 ℃	Relative Humidity:	54%
Pressure :	101 kPa	Polarization :	Vertical
Test Voltage :	DC 3.0V		
Test Mode :	TX Mode		



Remarks:

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Project No.: ZKT-220927L5301-01 Page 19 of 31

For Below 1GHz Emission

Frequency MHz	QP Level dBuV/m	Duty cycle factor	Level dBuV/m	Limit	Margin	Polarization	
434.00	66.52	/	66.52	100.8	-34.28	Horizontal	QP
434.00		-8.33	58.19	80.8	-22.61	Horizontal	Average
868.00	44.25	/	44.25	80.8	-36.55	Horizontal	QP
868.00		-8.33	35.92	60.8	-24.88	Horizontal	Average

Frequency	QP Level	Duty cycle	Level	Limit	t Margin	rgin Polarization	
MHz	dBuV/m	factor	dBuV/m	Lillit	Margin	Polatization	
434.00	66.35	/	66.35	100.8	-34.45	Vertical	QP
434.00		-8.33	58.02	80.8	-22.78	Vertical	Average
868.00	43.44	/	43.44	80.8	-37.36	Vertical	QP
868.00		-8.33	35.11	60.8	-25.69	Vertical	Average

Notes: 1. Average emission Level = QP Level + Duty cycle factor 2. Duty cycle level please see clause 6

3. Margin= Level - Limit

Radiated Spurious Emission (1GHz to 10th harmonics)

Fraguency	Peak	Duty	Average	Lir	mit	Margii	n dB							
Frequency MHz	Level	cycle	Level	DIV	۸۱/	PK	AV	Polarization						
IVII IZ	dBuV/m	factor	dBuV/m	FK	FK	FK AV	FR AV	PK AV	PK AV	PK AV	K AV	FK	AV	
1301.98	50.57	-8.33	42.24	80.8	60.8	-30.23	-18.56	Vertical						
1735.97	42.74	-8.33	34.41	80.8	60.8	-38.06	-26.39	Vertical						
2169.96	35.78	-8.33	27.45	80.8	60.8	-45.02	-33.35	Vertical						
2603.95	49.10	-8.33	40.77	80.8	60.8	-31.70	-20.03	Vertical						
3037.94	34.63	-8.33	26.3	80.8	60.8	-46.17	-34.5	Vertical						
-	-	-		-	-			-						
1301.98	47.88	-8.33	39.55	80.8	60.8	-32.92	-21.25	Horizontal						
1735.97	43.18	-8.33	34.85	80.8	60.8	-37.62	-25.95	Horizontal						
2169.96	36.42	-8.33	28.09	80.8	60.8	-44.38	-32.71	Horizontal						
2603.95	50.84	-8.33	42.51	80.8	60.8	-29.96	-18.29	Horizontal						
3037.94	36.47	-8.33	28.14	80.8	60.8	-44.33	-32.66	Horizontal						

Notes: 1.Average emission Level = Peak Level + Duty cycle factor

2.Duty cycle level please see clause 6

3. Margin= Level - Limit

Project No.: ZKT-220927L5301-01 Page 20 of 31

5. BANDWIDTH TEST

5.1 APPLIED PROCEDURES / LIMIT

According to FCC 15.231(c) requirement:

The bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating between 70 MHz to 900 MHz. Those devices operating above 900 MHz, the emission spurious shall be no wider than 0.5% of the center frequency. Bandwidth is determined at the points 20 dB down from the modulated carrier.

B.W (20dBc) Limit = 0.25% * f(MHz) = 0.25% * 434MHz = 1.085MHz

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	> Measurement Bandwidth or Channel Separation
RB	10kHz
VB	≥RBW
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

5.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting : RBW= 10kHz, VBW≥ RBW, Sweep time = Auto.

5.3 DEVIATION FROM STANDARD

No deviation.

5.4 TEST SETUP



5.5 EUT OPERATION CONDITIONS

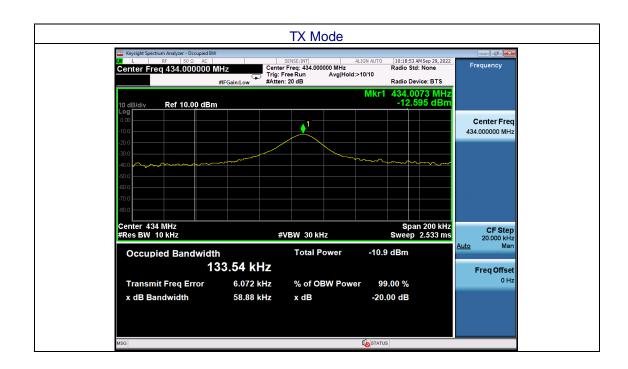
The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

Project No.: ZKT-220927L5301-01 Page 21 of 31

5.6 TEST RESULT

Temperature :	26 ℃	Relative Humidity:	54%
Pressure :	101kPa	Test Voltage :	DC3.0V
Test Mode :	TX Mode		

Frequency	20dB Bandwidth	Limit	Result
Frequency	(kHz)	(MHz)	Result
434MHz	58.88	1.085	PASS



Project No.: ZKT-220927L5301-01 Page 22 of 31

6. CALCULATION OF AVERAGE FACTOR

The output field strengths of specification in accordance with the FCC rules specify measurements with an average detector. During the test, a spectrum analyzer incorporating a peak detector was used. Therefore, a reduction factor can be applied to the resultant peak signal level and compared to the limit for measurement instrumentation incorporating an average detector.

The duty cycle is measured in 100 ms or the repetition cycle period, whichever is a shorter time frame. The duty cycle is measured by placing the spectrum analyzer to set zero span at 100kHz resolution bandwidth.

Averaging factor in dB =20log (duty cycle)

The duration of one cycle =39.66ms

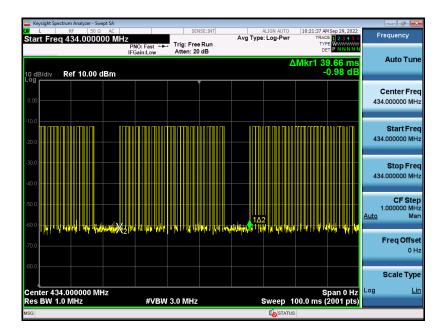
The duty cycle is simply the on-time divided the duration of one cycle

Duty Cycle =(0.2545*19 +0.7406*14)/ 39.66=15.2039/39.66=0.383356

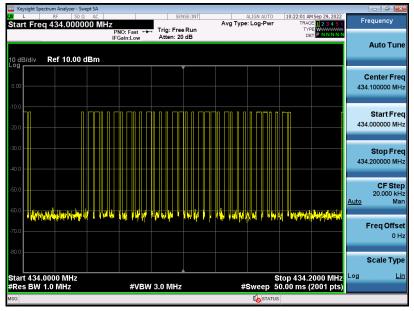
Therefore, the averaging factor is found by 20*log(0.383356) = -8.33 dB

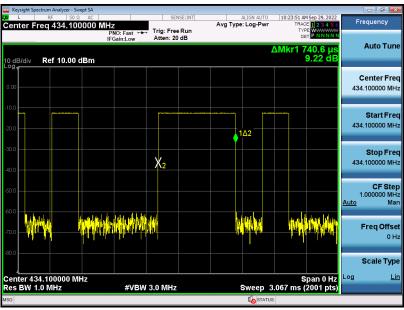
Test plot as follows:

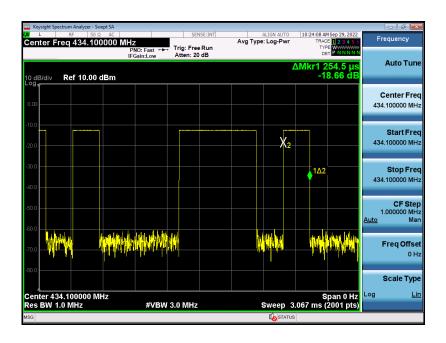
Note: During the 100ms, the amount of pulse and on-time of pulse are the same for every pulse train.



Project No.: ZKT-220927L5301-01 Page 23 of 31







Project No.: ZKT-220927L5301-01 Page 24 of 31

7. DWELL TIME

7.1 APPLICABLE STANDARD

According to FCC 15.231(a) requirement:

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

7.2 TEST PROCEDURE

Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.

- 1.Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
- 2.Set RBW to 1000 kHz and VBW of spectrum analyzer to 3000 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
- 3. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
- 4. Repeat above procedures until all measured frequencies were complete.

7.3 DEVIATION FROM STANDARD

No deviation.

7.4 TEST SETUP

EUT	SPECTRUM
	ANALYZER

7.5 EUT OPERATION CONDITIONS

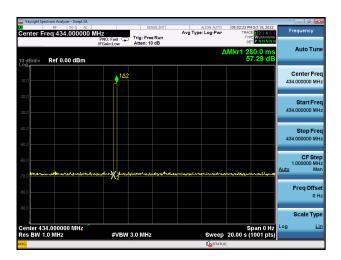
The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

Project No.: ZKT-220927L5301-01 Page 25 of 31

7.6 TEST RESULTS

Dwell time (second)	Limit (second)	Result
0.28s	<5s	Pass

Test plot as follows:



Project No.: ZKT-220927L5301-01 Page 26 of 31

8. ANTENNA REQUIREMENT

Standard requirement: FCC Part15 C Section 15.203

15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

EUT Antenna:

The antennas are PCB antenna, the best case gain of the antennas is 0.83dBi, reference to the appendix II for details





Project No.: ZKT-220927L5301-01 Page 27 of 31

9. TEST SETUP PHOTO

Reference to the test setup file for details.

10. EUT CONSTRUCTIONAL DETAILS

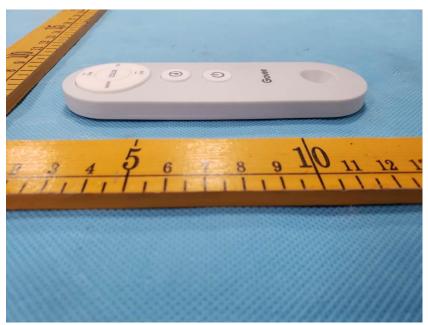




Project No.: ZKT-220927L5301-01 Page 28 of 31







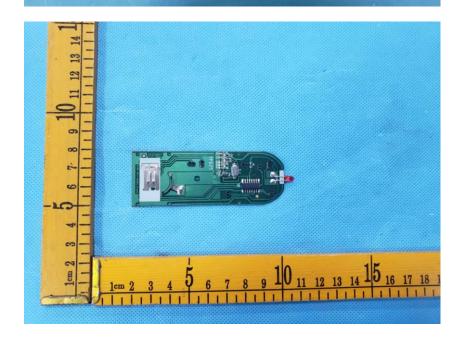
Project No.: ZKT-220927L5301-01 Page 29 of 31



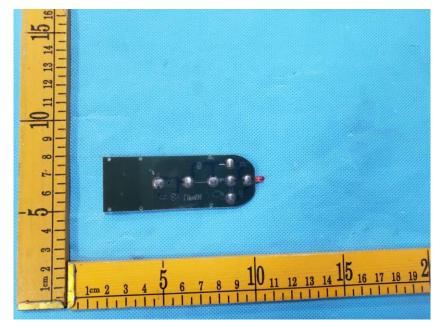


Project No.: ZKT-220927L5301-01 Page 30 of 31





Project No.: ZKT-220927L5301-01 Page 31 of 31





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