

TEST REPORT

Application No.: FYCR2206000261AT
Applicant: ShenZhen HIPPO Digital CO., Ltd
Address of Applicant: Room3B01, Building3, BlockA, Internet Industrial Base, BaoYuan Road, BaoAn District, ShenZhen China
Manufacturer: Explore Scientific, LLC
Address of Manufacturer: 1010 S. 48th Street Springdale, Arkansas 72762, United States
Factory: ShenZhen HIPPO Digital CO., Ltd
Address of Factory: Room3B01, Building3, BlockA, Internet Industrial Base, BaoYuan Road, BaoAn District, ShenZhen China
Equipment Under Test (EUT):
EUT Name: Action Camera
Model No.: 88-83019; 88-83021 ♣
 ♣ Please refer to section 2 of this report which indicates which model was actual tested and which were electrically identical.
FCC ID: 2ASJU88-83021
Standard(s) : 47 CFR Part 15, Subpart C 15.247
Date of Receipt: 2022-06-29
Date of Test: 2022-07-01 to 2022-07-05
Date of Issue: 2022-07-08

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.



Winkey Wang
EMC Technical Manager



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2022-07-08		Original

Authorized for issue by:				
		Tree Zhan		
		Tree Zhan/Project Engineer		
		Winkey Wang		
		Winkey Wang/Reviewer		



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2 Test Summary

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Radiated Spurious Emissions Below 1GHz	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.4,6.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass

For report SZCR210402074202

Remark:

Model No.: 88-83021, V5, V3A, V6, V8

Only the model 88-83021 was tested, since according to the declaration from the applicant, the electrical circuit design, layout, components used, internal wiring and functions were identical for all the above models, with only difference on the shell cover.

For report FYCR220600026102

Model No.: Model No.: 88-83019; 88-83021

This test report (Ref. No.: FYCR220600026102) is only valid with the original test report (Ref. No.: SZCR210402074202).

According to the declaration from the applicant, the models in this report and models in original report were identical, only difference on cover color, surface silk screen printing technology and the manufacturer of charging circuit chip AXP209.

Considering to the difference, pre-scans were performed on the sample in this report to find the items which can be influential to the result in the original test report for fully retest.

Therefore in this report Radiated Emissions (30MHz-1GHz) was fully retested on model 88-83021 and shown the data in this report, other tests please refer to original report SZCR210402074202.



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3 Contents

	Page
1 COVER PAGE	1
2 TEST SUMMARY	3
3 CONTENTS	4
4 GENERAL INFORMATION	5
4.1 DETAILS OF E.U.T.	5
4.2 DESCRIPTION OF SUPPORT UNITS	5
4.3 MEASUREMENT UNCERTAINTY	5
4.4 TEST LOCATION	6
4.5 TEST FACILITY	6
4.6 DEVIATION FROM STANDARDS	6
4.7 ABNORMALITIES FROM STANDARD CONDITIONS	6
5 EQUIPMENT LIST	7
6 RADIO SPECTRUM MATTER TEST RESULTS	8
6.1 RADIATED SPURIOUS EMISSIONS BELOW 1GHz	8
6.1.1 E.U.T. Operation	8
6.1.2 Test Mode Description	8
6.1.3 Test Setup Diagram	9
6.1.4 Measurement Procedure and Data	9
7 TEST SETUP PHOTO	12
8 EUT CONSTRUCTIONAL DETAILS (EUT PHOTOS)	12



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4 General Information

4.1 Details of E.U.T.

Power supply:	DC 5V from adapter input AC 120V/60Hz Lithium Ion Battery: 3.7V 750mAh rechargeable battery which charged by USB port
Cable(s):	USB cable: 60cm unshielded
Operation Frequency:	802.11b/g/n(HT20): 2412MHz to 2462MHz
Modulation Type:	802.11b: DSSS (CCK, DQPSK, DBPSK);802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)
Number of Channels:	802.11b/g/n(HT20):11
Channel Spacing:	5MHz
Antenna Type:	PCB Antenna
Antenna Gain:	-4.13dBi

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
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The EUT has been tested as an independent unit.

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Radiated Spurious Emissions Below 1GHz	$\pm 3.1\text{dB}$ (Below 1GHz)

Remark:
The U_{lab} (lab Uncertainty) is less than $U_{\text{CISPR/ETSI}}$ (CISPR/ETSI Uncertainty), so the test results
 – compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
 – non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



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4.4 Test Location

All tests were performed at:

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Fuyong lab. Xinlong TechnoPark, Fengtang Road, Fuyong Subdistrict, Bao'an, Shenzhen, China

Tel: +86 755 8866 3988 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **A2LA (Certificate No. 6606.01)**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 6606.01.

- **FCC –Designation Number: CN1322**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized as an accredited testing laboratory.

Designation Number: CN1322. Test Firm Registration Number: 718073

- **Innovation, Science and Economic Development Canada**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0129.

IC#: 28189.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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5 Equipment List

Radiated Spurious Emissions Below 1GHz					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Anechoic Chamber	CRT	N/A	SEM001-13	2021/7/13	2022/7/12
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-33	2021/9/25	2024/9/24
Biconical Antenna	Schwarzbeck	VUBA9117	SEM003-35	2021/12/26	2024/12/25
Loop Antenna	ETS-LINDGREN	6502	SEM003-36	2021/9/26	2024/9/25
MXE EMI receiver	Agilent	N9038A	SEM004-05	2021/7/13	2022/7/12
Pre-amplifier	HP	8447D	SEM005-02	2021/7/13	2022/7/12

General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	Mingle	TH607	SEM002-22	2021-07-13	2022-07-12
Humidity/ Temperature Indicator	Mingle	TH607	SEM002-23	2021-07-13	2022-07-12
Barometer	DUMAI	DYM3	SEM002-24	2021-07-13	2022-07-12



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6 Radio Spectrum Matter Test Results

6.1 Radiated Spurious Emissions Below 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10 (2013) Section 6.4,6.5

Measurement Distance: 3m

Limit:

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
960-1000	500	3

6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23.9 °C

Humidity: 49.1 % RH

Atmospheric Pressure: 1020 mbar

6.1.2 Test Mode Description

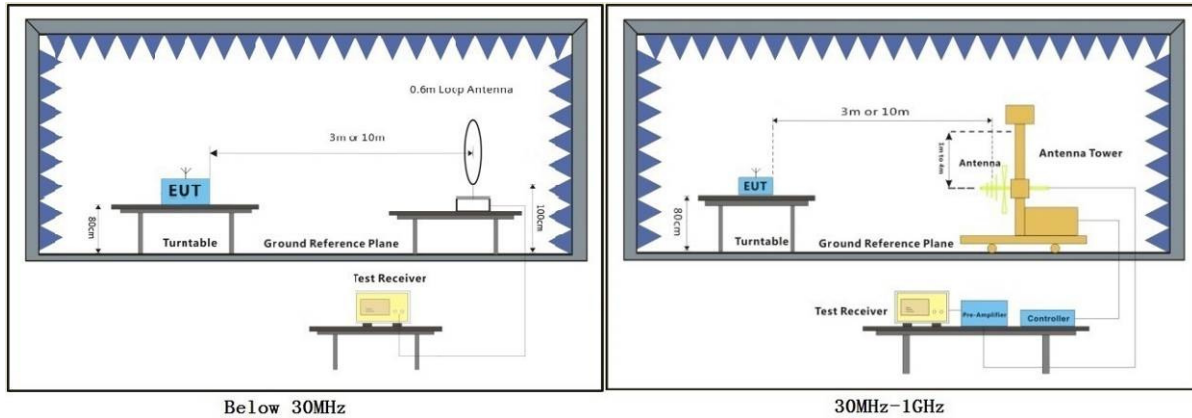
Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.



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6.1.3 Test Setup Diagram



6.1.4 Measurement Procedure and Data

- For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using quasi-peak method as specified and then reported in a data sheet.
- Test the EUT in the lowest channel, the middle channel, the Highest channel.
- The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- Repeat above procedures until all frequencies measured was complete.

Remark:

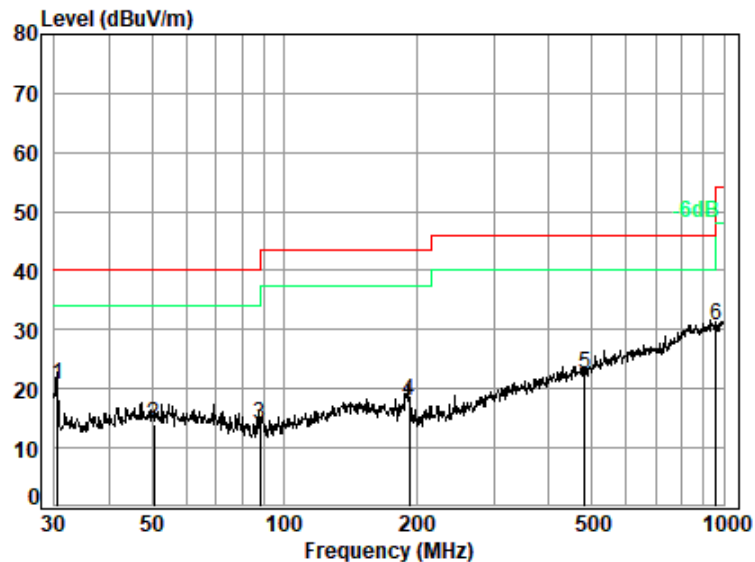
- Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.



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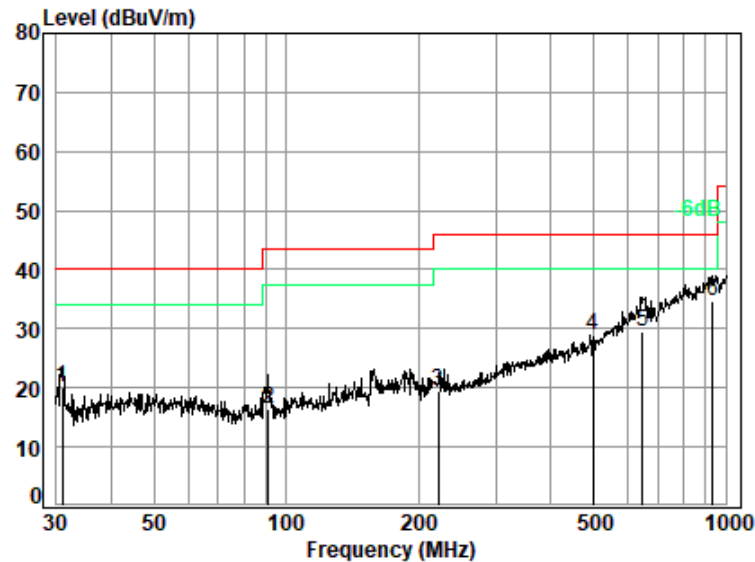
Test Mode: 00; Polarity: Horizontal Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00261AT
Mode : 00

	Freq	Cable	Ant	Preamp	Read	Limit	Over	
	MHz	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	30.5306	0.18	15.96	25.90	30.56	20.80	40.00	-19.20 QP
2	50.5860	0.22	17.35	25.86	22.37	14.08	40.00	-25.92 QP
3	88.0329	0.63	13.54	25.81	25.66	14.02	43.50	-29.48 QP
4	192.4186	0.69	15.41	25.38	27.15	17.87	43.50	-25.63 QP
5	482.2156	1.42	22.18	26.26	25.32	22.66	46.00	-23.34 QP
6	962.1623	2.21	29.29	26.27	25.56	30.79	54.00	-23.21 QP

Test Mode: 00; Polarity: Vertical Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00261AT
Mode : 00

	Freq	Cable	Ant	Preamp	Read	Limit	Over	
	MHz	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	30.9619	0.18	15.62	25.90	30.04	19.94	40.00	-20.06 QP
2	90.8554	0.68	13.70	25.81	27.74	16.31	43.50	-27.19 QP
3	222.1698	0.76	15.88	25.29	28.15	19.50	46.00	-26.50 QP
4	497.6765	1.41	22.74	26.34	31.08	28.89	46.00	-17.11 QP
5	647.3856	2.05	25.15	26.75	29.07	29.52	46.00	-16.48 QP
6	935.5463	2.13	29.22	26.32	29.78	34.81	46.00	-11.19 QP



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7 Test Setup Photo

Refer to Appendix - Test Setup Photo for FYCR2206000261AT

8 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for FYCR2206000261AT

- End of the Report -



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