



TEST REPORT

Applicant Name: Shenzhen VanTop Technology & Innovation Co., Ltd

Address: 502, 5th Flr. BLDG 4, MinQi Technology Park, No. 65 Lishan

Road, Taoyuan Street, Nanshan District, Shenzhen, China

Report Number: SZNS220331-11808E-RF-00

FCC ID: 2AQ3A-HMA002

Test Standard (s)

FCC PART 15.231

Sample Description

Product Type: SMART WIFI SECURITY CAMERA

Model No.: Assure B1-C

Multiple Model(s) No.: Assure B2-C, Assure B3-C, Mate A1, PROTECT D1, HM612,

D1, PROTECT B2, HM206

(Please refer to DOS for Model difference)

Trade Mark: N/A

Date Received: 2022/03/31 Report Date: 2022/06/01

Test Result: Pass*

Prepared and Checked By:

Approved By:

.

Candy Li

EMC Engineer

Black Ding

EMC Engineer

Note: This report may contain data that are not covered by the A2LA accreditation and are marked with an asterisk "* ".

Shenzhen Accurate Technology Co., Ltd. is not responsible for the authenticity of any test data provided by the applicant. Data included from the applicant that may affect test results are marked with an asterisk **. Customer model name, addresses, names, trademarks etc. are not considered data.

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Shenzhen Accurate Technology Co., Ltd.

1/F., Building A, Changyuan New Material Port, Science & Industry Park, Nanshan District, Shenzhen, Guangdong, P.R. China
Tel: +86 755-26503290 Fax: +86 755-26503396 Web: www.atc-lab.com

^{*} In the configuration tested, the EUT complied with the standards above.

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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Frequency Range	433.95MHz
Modulation Technique	FSK
E-field strength	76.31dBuV/m@3m
Antenna Specification*	2.0dBi(provided by the applicant)
Voltage Range	DC 1.2V*4 AA rechargeable battery & DC 5V from adapter
Sample serial number	SZNS220331-11808E-RF-S1 (Assigned by ATC)
Sample/EUT Status	Good condition
Adapter Information	Model: SA-0502000JPU Input: AC 100-240V,50/60Hz,0.35A Max Output: DC 5V,2.0A

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Objective

All the test measurements were performed according to the measurement procedure described in ANSI C63.10 - 2013.

The tests were performed in order to determine compliance with FCC Part 15, Subpart C, section 15.203, 15.205, 15.207, 15.209, 15.35(c) and 15.231 rules.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10 - 2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

All emissions measurement was performed at Shenzhen Accurate Technology Co., Ltd. The radiated testing was performed at an antenna-to-EUT distance of 3 meters. Each test item follows test standards and with no deviation.

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Measurement Uncertainty

Parameter		Uncertainty
Occupied Cha	nnel Bandwidth	5%
RF output po	wer, conducted	0.73dB
Unwanted Emi	ssion, conducted	1.6dB
	30MHz - 1GHz	4.28dB
Emissions, Radiated	1GHz - 18GHz	4.98dB
Radiated	18GHz - 26.5GHz	5.06dB
Temperature		1℃
Humidity		6%
Supply	voltages	0.4%

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Note: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.

Test Facility

The test site used by Shenzhen Accurate Technology Co., Ltd. to collect test data is located on the 1/F., Building A, Changyuan New Material Port, Science & Industry Park, Nanshan District, Shenzhen, Guangdong, P.R. China.

The test site has been approved by the FCC under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No.: 708358, the FCC Designation No.: CN1189. Accredited by American Association for Laboratory Accreditation (A2LA) The Certificate Number is 429 7.01.

Listed by Innovation, Science and Economic Development Canada (ISEDC), the Registration Number is 5077A.

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SYSTEM TEST CONFIGURATION

Justification

The system was configured for testing by manufacturer.

Operating frequency: 433.95MHz

Special Accessories

No special accessories was used

Equipment Modifications

No modification was made to the EUT.

Support Equipment List and Details

Manufacturer	Description Model		Serial Number	
/	/	/	/	

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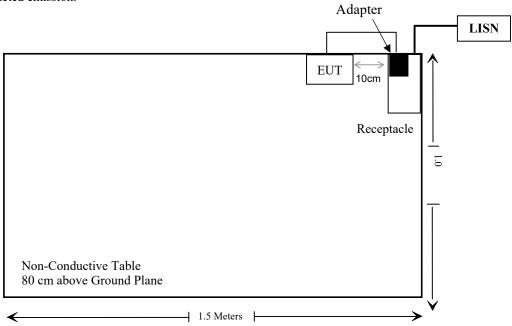
External I/O Cable

Cable Description	Length (m)	From / Port	То
USB Cable	1.0	Adapter	EUT

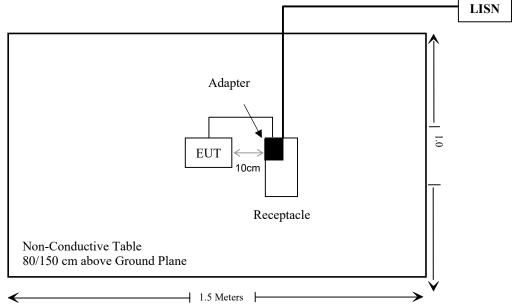
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Block Diagram of Test Setup

For conducted emission:



For radiated emission:



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§15.203	Antenna Requirement	Compliant
§15.207 (a)	Conducted Emissions	Compliant
§15.205, §15.209, §15.231(b)	Radiated Emissions	Compliant
§15.231 (c)	20dB Emission Bandwidth	Compliant
§15.231 (a) (1)	Deactivation	Compliant

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TEST EQUIPMENT LIST AND DETAILS

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date		
Conducted Emissions Test							
Rohde& Schwarz	EMI Test Receiver	ESCI	100784	2021/12/13	2022/12/12		
Rohde & Schwarz	L.I.S.N.	ENV216	101314	2021/12/13	2022/12/12		
Anritsu Corp	50 Coaxial Switch	MP59B	6100237248	2021/12/13	2022/12/12		
Unknown	RF Coaxial Cable	No.17	N0350	2021/12/14	2022/12/13		
Conducted Emission Te	est Software: e3 19821G (V9)					
	Radia	ated Emission T	est				
Rohde& Schwarz	Test Receiver	ESR	102725	2021/12/13	2022/12/12		
Rohde&Schwarz	Spectrum Analyzer	FSV40	101949	2021/12/13	2022/12/12		
SONOMA INSTRUMENT	Amplifier	310 N	186131	2021/11/09	2022/11/08		
A.H. Systems, inc.	Preamplifier	PAM-0118P	135	2021/11/09	2022/11/08		
Schwarzbeck	Bilog Antenna	VULB9163	9163-323	2021/07/06	2024/07/05		
Schwarzbeck	Horn Antenna	BBHA9120D	9120D-1067	2020/01/05	2023/01/04		
Unknown	RF Coaxial Cable	No.10	N050	2021/12/14	2022/12/13		
Unknown	RF Coaxial Cable	No.11	N1000	2021/12/14	2022/12/13		
Unknown	RF Coaxial Cable	No.12	N040	2021/12/14	2022/12/13		
Unknown	RF Coaxial Cable	No.13	N300	2021/12/14	2022/12/13		
Unknown	RF Coaxial Cable	No.14	N800	2021/12/14	2022/12/13		
Radiated Emission Test	Software: e3 19821G (V9	9)					

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^{*} Statement of Traceability: Shenzhen Accurate Technology Co., Ltd. attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

FCC §15.203 - ANTENNA REQUIREMENT

Applicable Standard

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 shall be considered sufficient to comply with the provisions of this section.

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Antenna Connector Construction

The EUT has one internal antenna arrangement which was permanently attached. And the antenna gain is 2.0dBi; fulfill the requirement of this section. Please refer to EUT photos.

Result: Compliant.

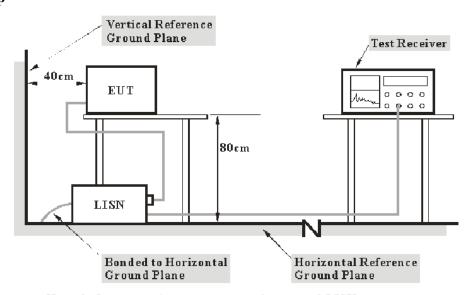
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FCC §15.207 (a) – AC LINE CONDUCTED EMISSIONS

Applicable Standard

FCC §15.207(a)

EUT Setup



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Note: 1. Support units were connected to second LISN.
2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The measurement procedure of EUT setup is according with ANSI C63.10-2013. The related limit was specified in FCC Part 15.207.

The spacing between the peripherals was 10 cm.

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W
150 kHz – 30 MHz	9 kHz

Test Procedure

During the conducted emission test, the adapter was connected to the outlet of the LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All final data was recorded in the Quasi-peak and average detection mode.

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Transd Factor & Margin Calculation

The Transd factor is calculated by adding LISN VDF (Voltage Division Factor), Cable Loss and Transient Limiter Attenuation. The basic equation is as follows:

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Transd Factor = LISN VDF + Cable Loss

The "Over Limit" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a over limit of -7 dB means the emission is 7 dB below the limit. The equation for margin calculation is as follows:

Over Limit = level – Limit Level= reading level+ Transd Factor

Test Data

Environmental Conditions

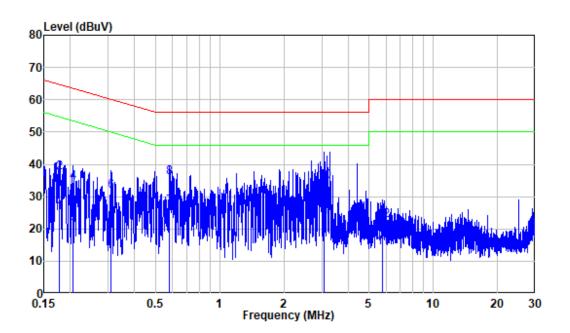
Temperature:	23 °C
Relative Humidity:	50 %
ATM Pressure:	101.0 kPa

The testing was performed by Jason on 2022-05-10.

EUT operation mode: Transmitting

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AC 120V/60 Hz, Line

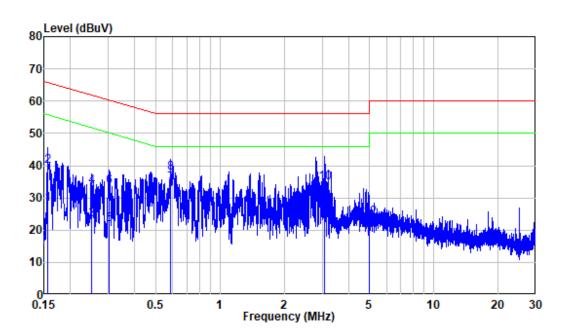


		Read		Limit	0ver	
Freq	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dBuV	dBuV	dBuV	dB	
0.178	9.80	15.24	25.04	54.56	-29.52	Average
0.178	9.80	27.78	37.58	64.56	-26.98	QP
0.205	9.80	12.02	21.82	53.41	-31.59	Average
0.205	9.80	24.61	34.41	63.41	-29.00	QP
0.311	9.80	9.95	19.75	49.95	-30.20	Average
0.311	9.80	21.81	31.61	59.95	-28.34	QP
0.583	9.81	16.99	26.80	46.00	-19.20	Average
0.583	9.81	26.25	36.06	56.00	-19.94	QP
3.092	9.83	13.18	23.01	46.00	-22.99	Average
3.092	9.83	24.87	34.70	56.00	-21.30	QP
5.782	9.86	4.42	14.28	50.00	-35.72	Average
5.782	9.86	12.82	22.68	60.00	-37.32	QP
	MHz 0.178 0.178 0.205 0.205 0.311 0.311 0.583 0.583 3.092 3.092 5.782	MHz dB 0.178 9.80 0.178 9.80 0.205 9.80 0.205 9.80 0.311 9.80 0.311 9.80 0.311 9.80 0.583 9.81 0.583 9.81 3.092 9.83 3.092 9.83 5.782 9.86	MHz dB dBuV 0.178 9.80 15.24 0.178 9.80 27.78 0.205 9.80 12.02 0.205 9.80 24.61 0.311 9.80 9.95 0.311 9.80 9.95 0.311 9.80 21.81 0.583 9.81 16.99 0.583 9.81 26.25 3.092 9.83 13.18 3.092 9.83 24.87 5.782 9.86 4.42	MHz dB dBuV dBuV 0.178 9.80 15.24 25.04 0.178 9.80 27.78 37.58 0.205 9.80 12.02 21.82 0.205 9.80 24.61 34.41 0.311 9.80 9.95 19.75 0.311 9.80 21.81 31.61 0.583 9.81 16.99 26.80 0.583 9.81 26.25 36.06 3.092 9.83 13.18 23.01 3.092 9.83 24.87 34.70 5.782 9.86 4.42 14.28	MHz dB dBuV dBuV dBuV 0.178 9.80 15.24 25.04 54.56 0.178 9.80 27.78 37.58 64.56 0.205 9.80 12.02 21.82 53.41 0.205 9.80 24.61 34.41 63.41 0.311 9.80 9.95 19.75 49.95 0.311 9.80 21.81 31.61 59.95 0.583 9.81 16.99 26.80 46.00 0.583 9.81 26.25 36.06 56.00 3.092 9.83 13.18 23.01 46.00 3.092 9.83 24.87 34.70 56.00 5.782 9.86 4.42 14.28 50.00	MHz dB dBuV dB

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AC 120V/60 Hz, Neutral



			Read		Limit	0ver	
	Freq	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dBuV	dBuV	dBuV	dB	
1	0.156	9.80	18.17	27.97	55.65	-27.68	Average
2	0.156	9.80	30.09	39.89	65.65	-25.76	QP
3	0.250	9.80	13.58	23.38	51.76	-28.38	Average
4	0.250	9.80	23.84	33.64	61.76	-28.12	QP
5	0.303	9.80	11.99	21.79	50.15	-28.36	Average
6	0.303	9.80	23.71	33.51	60.15	-26.64	QP
7	0.587	9.81	24.60	34.41	46.00	-11.59	Average
8	0.587	9.81	27.95	37.76	56.00	-18.24	QP
9	3.080	9.83	15.51	25.34	46.00	-20.66	Average
10	3.080	9.83	24.95	34.78	56.00	-21.22	QP
11	5.005	9.89	8.18	18.07	50.00	-31.93	Average
12	5.005	9.89	13.96	23.85	60.00	-36.15	QP

FCC §15.205, §15.209, §15.231 (b) - RADIATED EMISSIONS

Applicable Standard

FCC §15.205, §15.209, §15.231 (b)

According to FCC §15.231(b), the field strength of emissions from intentional radiators operated under this section shall not exceed the following:

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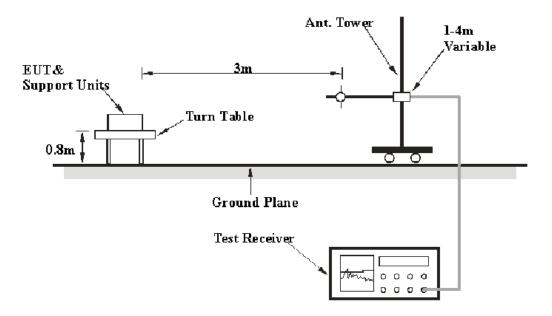
Fundamental frequency (MHz)	Field Strength of Fundamental (Microvolts /meter)	Field Strength of spurious emissions ((Microvolts /meter)
40.66-40.70	2250	225
70-130	1250	125
130-174	1250 to 3750**	125 to 375**
174-260	3750	375
260-470	3750 to 12500**	375 to 1250**
Above 470	12500	1250

^{*}Linear interpolations.

The above field strength limits are specified at a distance of 3-meters the tighter limits apply at the band edges.

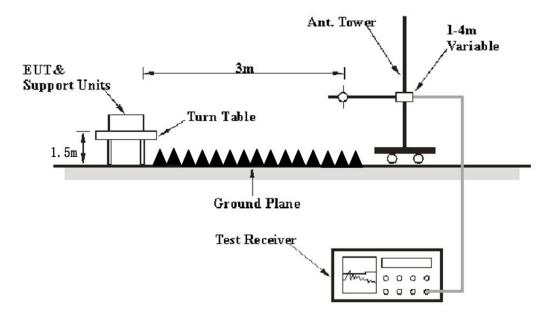
EUT Setup

Below 1 GHz:



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Above 1 GHz:



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The radiated emission tests were performed in the 3 meters test site, using the setup accordance with the ANSI C63.10 - 2013. The specification used was the FCC 15 \S 15.209, 15.205 and 15.231.

EMI Test Receiver Setup

The system was investigated from 30 MHz to 5 GHz.

During the radiated emission test, the test receiver was set with the following configurations:

Frequency Range	RBW	Video B/W	IF B/W	Measurement
30MHz – 1000 MHz	100 kHz	300 kHz	120 kHz	PK
Above 1 GHz	1 MHz	3 MHz	/	PK

Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

All final data was recorded in the Quasi-peak detection mode from 30MHz to 1GHz, Peak and average detection mode above 1 GHz.

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Corrected Factor & Margin Calculation

The Corrected Factor is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain. The basic equation is as follows:

Corrected Factor = Antenna Factor + Cable Loss - Amplifier Gain

The "Over Limit or Margin" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a overlimit/margin of -7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

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Margin/Over Limit = Corrected Amplitude/Level-Limit Corrected Amplitude/Level = Reading + Corrected Factor

Test Results Summary

According to the data in the following table, the EUT complied with the FCC §15.205, §15.209, §15.231 (b).

Test Data

Environmental Conditions

Temperature:	25 °C
Relative Humidity:	58~70 %
ATM Pressure:	101.0 kPa

The testing was performed by Level and Nick Fang from 2022-04-25 to 2022-05-11 for below 1GHz and by Nicky Fang on 2022-05-31 for above 1GHz.

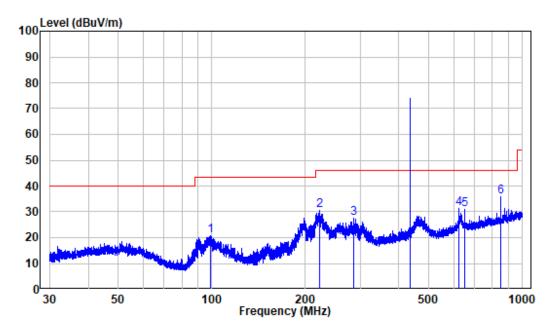
Test mode: Transmitting (Pre-scan in the X,Y and Z axes of orientation, the worst case X-axis of orientation was recorded)

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30 MHz~1 GHz:

Note: When the test result of peak was less than the limit of QP more than 6dB, just the peak value was recorded.



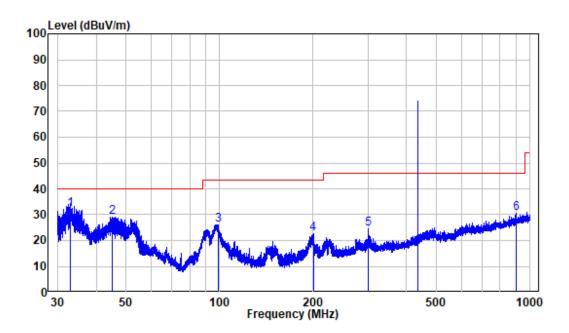
Site : chamber

Condition: 3m HORIZONTAL

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Test Mode: Transmission

			Read		Limit	0ver	
	Freq	Factor	Level	Level	Line	Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	98.746	-12.07	32.80	20.73	43.50	-22.77	Peak
2	222.560	-11.34	41.73	30.39	46.00	-15.61	Peak
3	286.605	-9.40	36.90	27.50	46.00	-18.50	Peak
4	625.078	-2.35	33.59	31.24	46.00	-14.76	Peak
5	650.178	-2.05	32.73	30.68	46.00	-15.32	Peak
6	850.290	0.36	35.46	35.82	46.00	-10.18	Peak



Site : chamber Condition: 3m VERTICAL

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Test Mode: Transmission

			Read		Limit	0ver	
	Freq	Factor	Level	Level	Line	Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	32.950	-12.03	44.25	32.22	40.00	-7.78	QP
2	44.999	-9.94	39.02	29.08	40.00	-10.92	Peak
3	98.659	-12.10	38.27	26.17	43.50	-17.33	Peak
4	200.161	-11.42	34.10	22.68	43.50	-20.82	Peak
5	301.290	-9.18	33.69	24.51	46.00	-21.49	Peak
6	901.727	1.47	29.18	30.65	46.00	-15.35	Peak

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Fundamental:

Fraguency	Re	ceiver	Turntable	Rx An	tenna	Corrected	Corrected	Limit	Margin
Frequency (MHz)	Reading (dBµV)	PK/QP/AV	Degree	Height (m)	Polar (H/V)		Amplitude (dBμV/m)	(dBµV/m)	(dB)
	433.95MHz								
433.95	82.1	PK	209	2.2	Н	-5.79	76.31	100.83	-24.52
433.95	81.43	PK	115	2.5	V	-5.79	75.64	100.83	-25.19

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1 GHz - 5 GHz:

Fraguency	Re	ceiver	Turntable	Rx An	tenna	Corrected	Corrected	Limit	Margin
Frequency (MHz)	Reading (dBµV)	PK/QP/AV	Degree	Height (m)	Polar (H/V)		Amplitude (dBµV/m)	(dBµV/m)	(dB)
	433.95MHz								
1301.85	50.65	PK	92	1.7	Н	-10.2	40.45	74	-33.55
1301.85	51.48	PK	172	2.5	V	-10.2	41.28	74	-32.72

Note:

Corrected Amplitude = Corrected Factor + Reading

Corrected Factor = Antenna factor (Rx) + cable loss – amplifier factor

Margin = Corrected. Amplitude - Limit

The test result of peak below the limit of average, so just peak value was recorded.

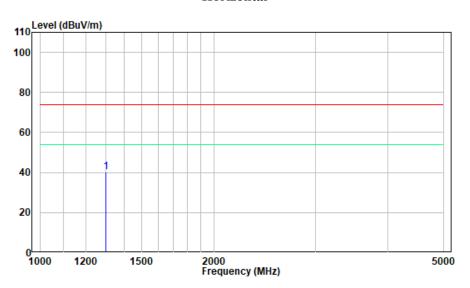
The other spurious emission which is 20dB to the limit or in noise floor level was not recorded.

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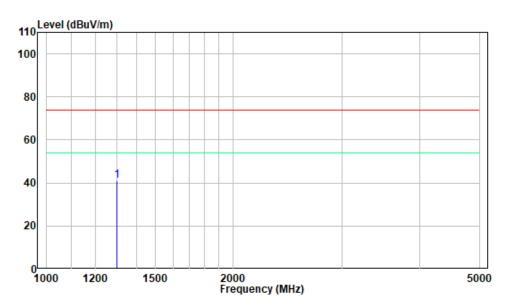
1-5GHz

Horizontal

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Vertical



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FCC §15.231(a) (1) - DEACTIVATION TESTING

Applicable Standard

Per FCC §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.

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Test Procedure

- 1. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 2. Set center frequency of spectrum analyzer=operating frequency.
- 3. Set the spectrum analyzer as RBW=100kHz/ VBW=300kHz/ Span=0Hz.
- 4. Repeat above procedures until all frequency measured was complete.

Test Data

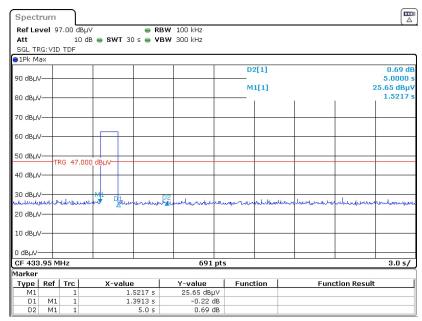
Environmental Conditions

Temperature:	26 ℃
Relative Humidity:	56 %
ATM Pressure:	101.0 kPa

The testing was performed by Nick Fang on 2022-05-31.

Test mode: Transmitting

Test Result: Compliant. This product will cease transmission within 5 seconds after activation. Please refer to following plots.



Date: 31.MAY.2022 15:03:13

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FCC §15.231(c) – 20 dB EMISSION BANDWIDTH TESTING

Applicable Standard

Per 15.231(c), The bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70 MHz and below 900 MHz. Bandwidth is determined at the points 20 dB down from the modulated carrier.

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Test Procedure

The EUT is setting to the transmit mode, the waveform was received by the test antenna which was connected to the spectrum analyzer, plot the 20 dB bandwidth.

Test Data

Environmental Conditions

Temperature:	26 ℃
Relative Humidity:	56 %
ATM Pressure:	101.0 kPa

The testing was performed by Nick Fang on 2022-05-31.

Test Mode: Transmitting

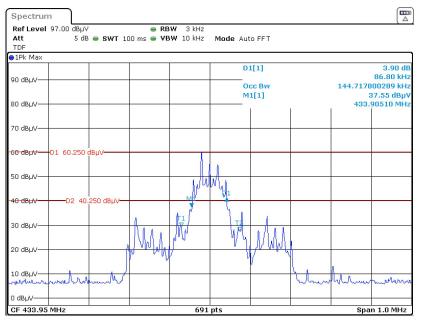
Please refer to following table and plots.

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Channel Frequency (MHz)	20 dB Emission Bandwidth (kHz)	Limit (kHz)	Result
433.95	86.8	<1084.875	Pass

20 dB Emission Bandwidth



Date: 31.MAY.2022 15:28:39

***** END OF REPORT *****