

# TEST REPORT

Applicant Name : SMART CAREGIVER CORPORATION  
Address : 1229 N. McDOWELL BLVD PETALUMA California United States 94954  
Report Number : SZNS1220812-36600E-RF  
FCC ID: 2AUNUTL-4016

**Test Standard (s)**

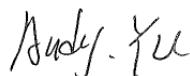
FCC PART 15.231

**Sample Description**

Product Type: Wireless Economy Alarm Monitor  
Model No.: TL-4016  
Trade Mark: SMART  
Date Received: 2022-08-12  
Date of Test: 2022-09-20 to 2022-10-14  
Report Date: 2022-10-23

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

**Prepared and Checked By:**

Audy.Yu  
EMC Engineer

**Approved By:**

Candy Li  
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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## GENERAL INFORMATION

### Product Description for Equipment under Test (EUT)

Product	Wireless Economy Alarm Monitor
Tested Model	TL-4016
Frequency Range	433.92MHz
E-field strength	70.66dBuV/m@3m
Modulation Technique	FSK
Antenna Specification*	1.6dBi(It is provided by the applicant.)
Voltage Range	DC 6V from Adapter or DC 4.5V from Battery
Sample serial number	SZNS1220812-36600E-RF-S1 (Assigned by ATC)
Sample/EUT Status	Good condition

### 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.

## Measurement Uncertainty

Parameter	Uncertainty	
Occupied Channel Bandwidth	5%	
RF Frequency	$0.082 \times 10^{-7}$	
RF output power, conducted	0.73dB	
Unwanted Emission, conducted	1.6dB	
AC Power Lines Conducted Emissions	2.72dB	
Audio Frequency Response	0.1dB	
Low Pass Filter Response	1.2dB	
Emissions, Radiated	9kHz - 30MHz	2.66dB
	30MHz - 1GHz	4.28dB
	1GHz - 18GHz	4.98dB
Temperature	1°C	
Humidity	6%	
Supply voltages	0.4%	

*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 4297.01

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0016. The Registration Number is 5077A.

## SYSTEM TEST CONFIGURATION

### Justification

The system was configured for testing in Engineering Mode and the power is default, which was provided and declared by manufacturer.

Operating frequency: 433.92MHz

### Special Accessories

No special accessories was used

### Equipment Modifications

No modification was made to the EUT.

### Support Equipment List and Details

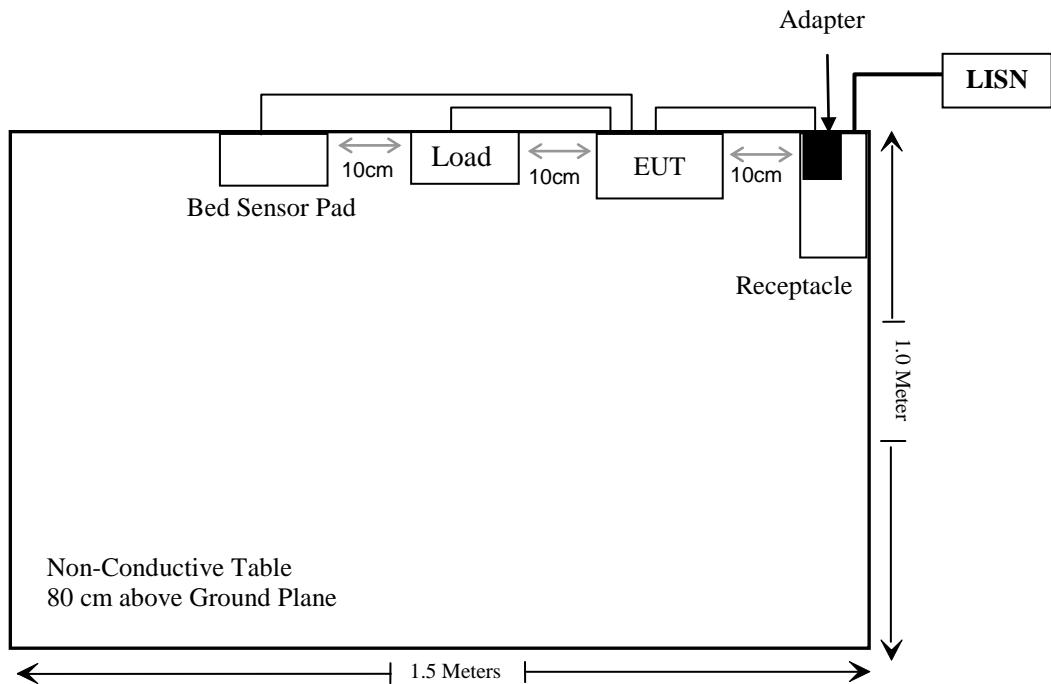
Manufacturer	Description	Model	Serial Number
PDU	Adapter	PDUR35060-30	E194363
SMART	Bed Sensor Pad	PPB-90R	140908
Unknown	Load	RX24	9475-00163e1552d4-36

### External I/O Cable

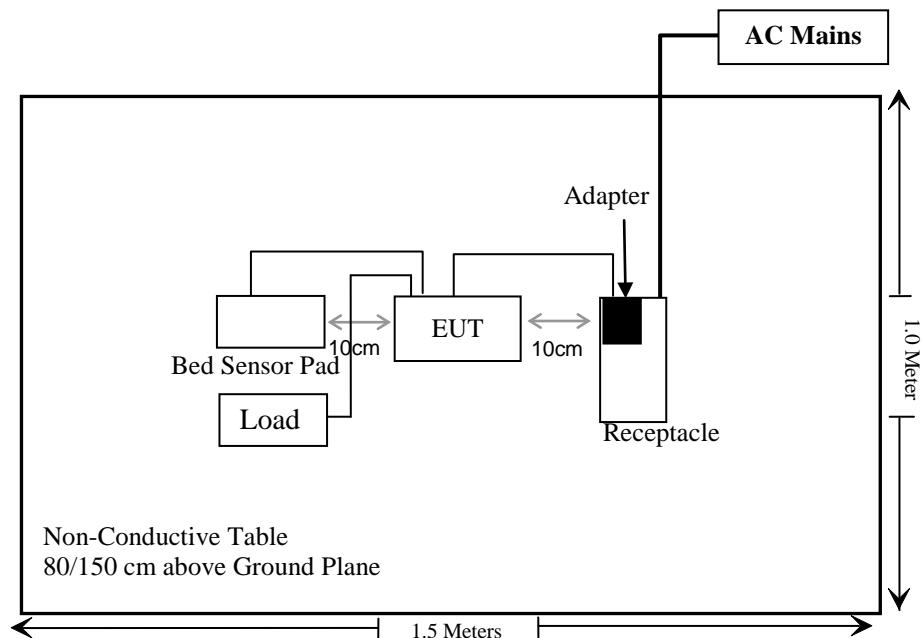
Cable Description	Length (m)	From / Port	To
Unshielded Un-detachable AC cable	1.2	LISN	Receptacle
Un-shielding Detachable DC Cable	2.0	EUT	Adapter
Un-shielding Detachable RJ11Cable	2.0	EUT	Bed Sensor Pad
Unshielded Un-detachable AC cable	1.5	EUT	Load

## Block Diagram of Test Setup

### For Conducted Emission



### For Radiated Emissions:



**SUMMARY OF TEST RESULTS**

FCC Rules	Description of Test	Result
§1.1307 (b) & §2.1093	RF Exposure	Compliant
§15.203	Antenna Requirement	Compliant
§15.207	AC Line Conducted Emission	Compliant
§15.205, §15.209, §15.231(b)	Radiated Emissions	Compliant
§15.231 (c)	20dB Emission Bandwidth	Compliant
§15.231 (a) (1)	Deactivation	Compliant

## TEST EQUIPMENT LIST AND DETAILS

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
<b>Conducted Emission Test</b>					
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 Test Software: e3 19821b (V9)					
<b>Radiated Emissions Test</b>					
Rohde& Schwarz	Test Receiver	ESR	102725	2021/12/13	2022/12/12
Rohde&Schwarz	Spectrum Analyzer	FSV40	101949	2021/12/13	2022/12/12
A.H. Systems, inc.	Preamplifier	PAM-0118P	135	2021/11/09	2022/11/08
SONOMA INSTRUMENT	Amplifier	310 N	186131	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
CD	High Pass Filter	HPM-1.2/18G-60	110	2021/12/14	2022/12/13
Radiated Emission Test Software: e3 19821b (V9)					

**\* 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 §1.1307 (b) & §2.1093 – RF EXPOSURE****Applicable Standard**

According to FCC §2.1093 and §1.1307(b), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

According to KDB 447498 D04 Interim General RF Exposure Guidance v01, clause 2.1.2 – 1-mW test Exemption:

Per § 1.1307(b)(3)(i)(A), a single RF source is exempt RF device (from the requirement to show data demonstrating compliance to RF exposure limits, as previously mentioned) if the available maximum time-averaged power is no more than 1 mW, regardless of separation distance.

This exemption applies to all operating configurations and exposure conditions, for the frequency range 100 kHz to 100 GHz, regardless of fixed, mobile, or portable device exposure conditions. This is a standalone exemption, and it cannot be applied in conjunction with any other test exemption.

**Test Result:**

For worst case:

Mode	Frequency	Maximum Tune-up Power		1-mW test Exemption
	(MHz)	(dBm)	(mW)	
SRD	433.92	-26	0.0025	Yes

Note 1:  $E(\text{dBuV/m}) = \text{EIRP}(\text{dBm}) - 95.2$  for distance 3m  
so the  $\text{EIRP} = 70.66 \text{dBuV/m} - 95.2 = -24.54 \text{dBm}$

Note 2:  $\text{EIRP}(\text{dBm}) = \text{ERP} + 2.15 \text{dBi}$   
so the  $\text{ERP} = -24.54 \text{dBm} - 2.15 \text{dBi} = -26.69 \text{dBm}$

Note 3: The tune-up power was declared by the applicant.

**Result:** Compliant.

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**FCC §15.203 - ANTENNA REQUIREMENT**

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**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.

**Antenna Connector Construction**

The EUT has one internal antenna arrangement which was permanently attached. And the antenna gain is 1.6dBi; fulfill the requirement of this section. Please refer to EUT photos.

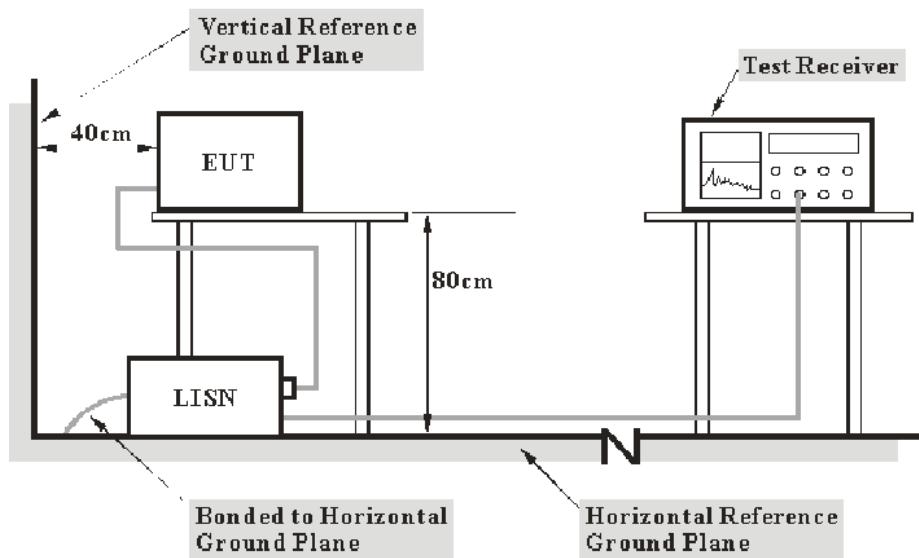
Result: Compliant.

## FCC §15.207 (a) – AC LINE CONDUCTED EMISSIONS

### Applicable Standard

FCC §15.207(a)

### EUT Setup



Note: 1. Support units were connected to second LISN.  
2. Both of LISNs (AMIN) 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.

## Factor & Margin Calculation

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

$$\text{Factor} = \text{LISN VDF} + \text{Cable Loss}$$

The “**Over limit**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, an Over limit of -7 dB means the emission is 7 dB below the limit. The equation for calculation is as follows:

$$\text{Over Limit} = \text{Level} - \text{Limit}$$

$$\text{Level} = \text{Read Level} + \text{Factor}$$

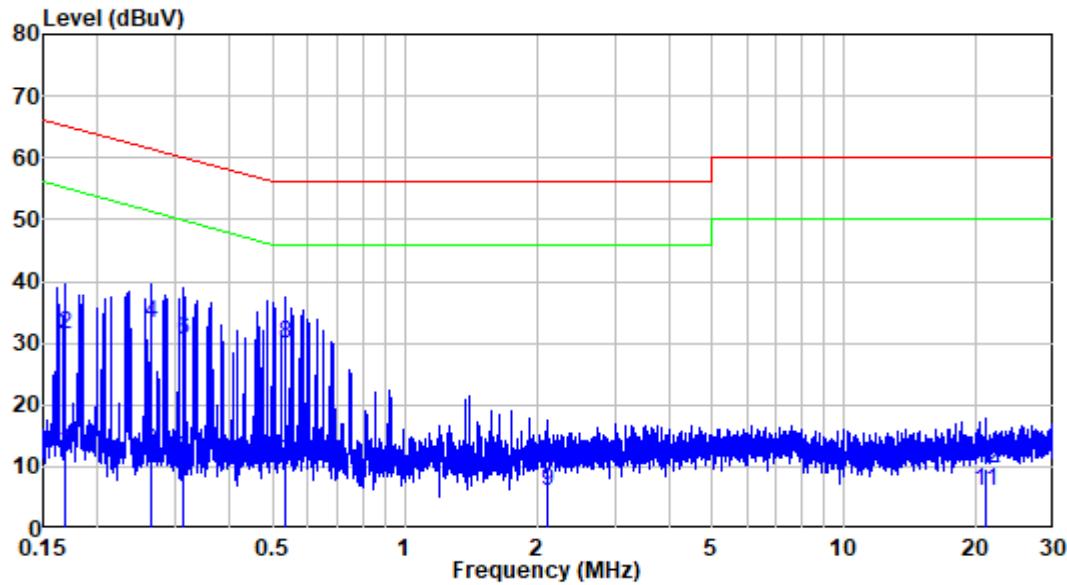
## Test Data

### Environmental Conditions

<b>Temperature:</b>	24 °C
<b>Relative Humidity:</b>	44 %
<b>ATM Pressure:</b>	101.0 kPa

*The testing was performed by Jason Liu on 2022-09-20.*

*EUT operation mode: Transmitting*

**AC 120V/60 Hz, Line**

Site : Shielding Room

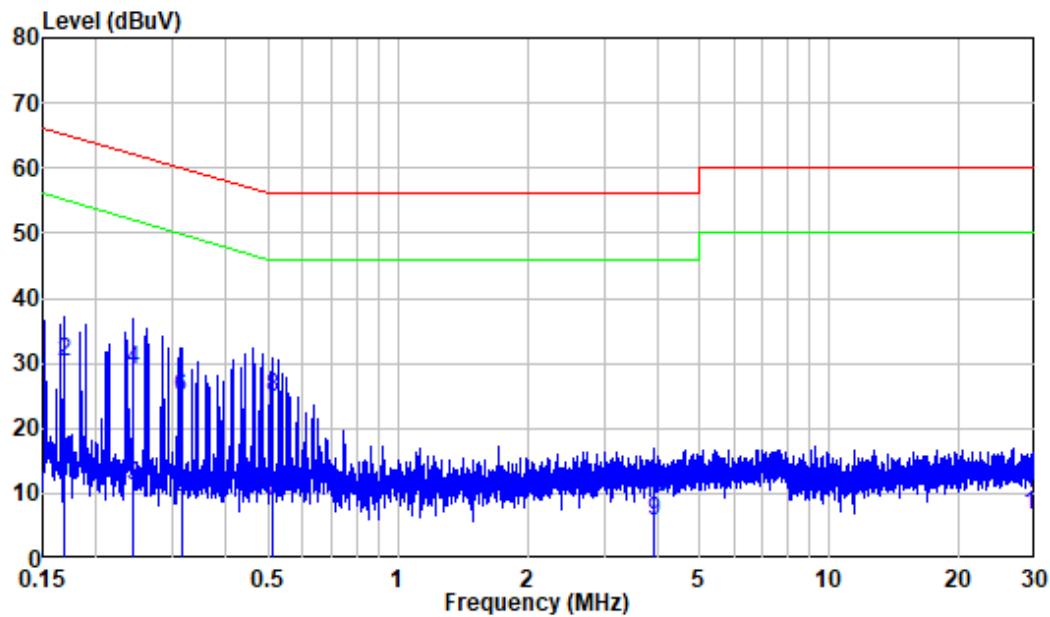
Condition: Line

Job No. : SZNS1220812-36600E-RF

Mode : Transmitting

Power : AC 120V 60Hz

	Freq	Factor	Read Level	Limit Level	Line	Over Limit	Remark
	MHz	dB	dBuV	dBuV	dBuV	dB	
1	0.168	9.80	2.69	12.49	55.07	-42.58	Average
2	0.168	9.80	21.57	31.37	65.07	-33.70	QP
3	0.264	9.80	2.68	12.48	51.31	-38.83	Average
4	0.264	9.80	23.51	33.31	61.31	-28.00	QP
5	0.314	9.80	1.32	11.12	49.86	-38.74	Average
6	0.314	9.80	20.63	30.43	59.86	-29.43	QP
7	0.534	9.81	0.84	10.65	46.00	-35.35	Average
8	0.534	9.81	20.19	30.00	56.00	-26.00	QP
9	2.110	9.82	-3.69	6.13	46.00	-39.87	Average
10	2.110	9.82	-0.16	9.66	56.00	-46.34	QP
11	21.008	10.01	-3.96	6.05	50.00	-43.95	Average
12	21.008	10.01	-0.47	9.54	60.00	-50.46	QP

**AC 120V/60 Hz, Neutral**

Site : Shielding Room  
Condition: Neutral  
Job No. : SZNS1220812-36600E-RF  
Mode : Transmitting  
Power : AC 120V 60Hz

Freq	Factor	Read		Limit		Over Limit	Remark
		MHz	dB	dBuV	dBuV		
1	0.168	9.80	2.34	12.14	55.06	-42.92	Average
2	0.168	9.80	20.49	30.29	65.06	-34.77	QP
3	0.243	9.80	1.43	11.23	52.01	-40.78	Average
4	0.243	9.80	19.26	29.06	62.01	-32.95	QP
5	0.314	9.80	-0.37	9.43	49.86	-40.43	Average
6	0.314	9.80	15.01	24.81	59.86	-35.05	QP
7	0.512	9.81	-1.05	8.76	46.00	-37.24	Average
8	0.512	9.81	14.97	24.78	56.00	-31.22	QP
9	3.922	9.84	-4.03	5.81	46.00	-40.19	Average
10	3.922	9.84	-0.47	9.37	56.00	-46.63	QP
11	29.881	10.20	-3.62	6.58	50.00	-43.42	Average
12	29.881	10.20	-0.16	10.04	60.00	-49.96	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:

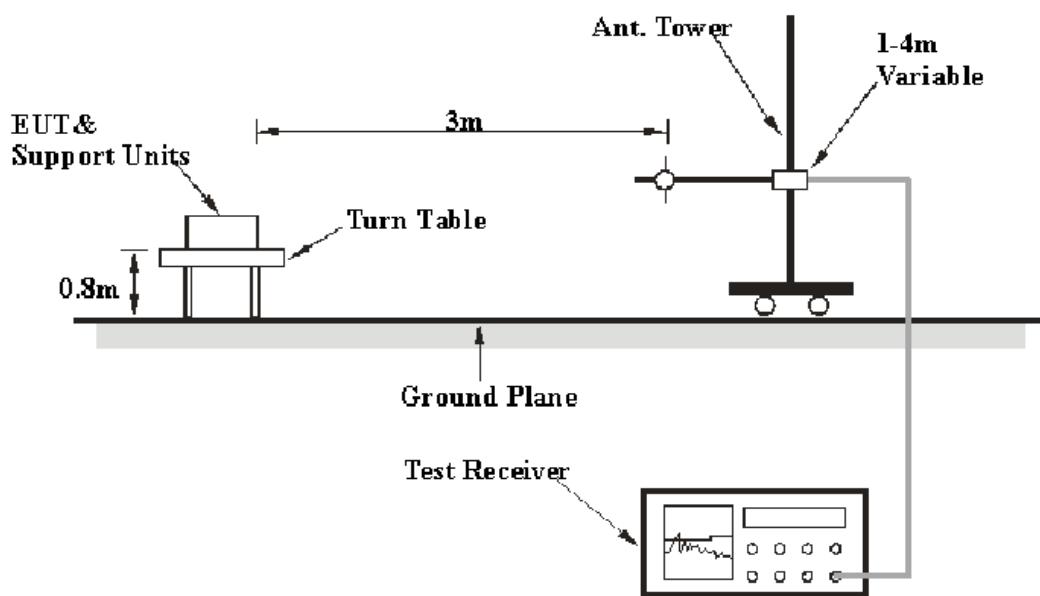
Fundamental frequency (MHz)	Field Strength of Fundamental (Microvolts /meter)	Field Strength of spurious emissions ((Microvolts /meter)
40.66-40.70	2250	225
70-130	1250	125
130-174	1250 to 3750**	125 to 375**
174-260	3750	375
260-470	3750 to 12500**	375 to 1250**
Above 470	12500	1250

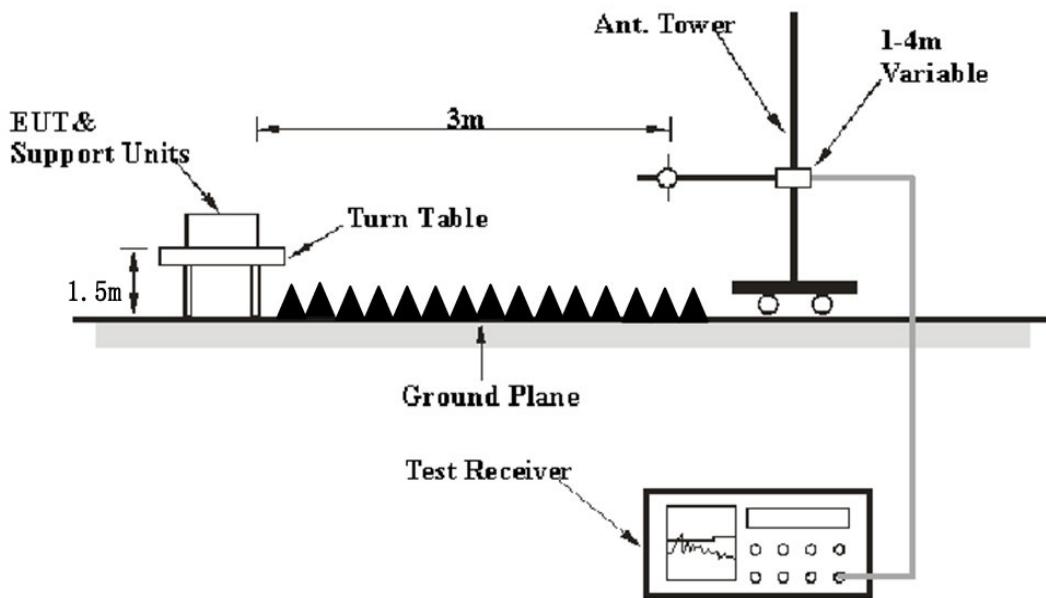
\*\*linear interpolations

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:



**Above 1 GHz:**

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 § 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.

If the maximized peak measured value complies with the limit, then it is unnecessary to perform QP/Average measurement.

## Corrected Amplitude & Margin Calculation

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

$$\text{Factor} = \text{Antenna Factor} + \text{Cable Loss} - \text{Amplifier Gain}$$

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

$$\begin{aligned}\text{Over Limit/Margin} &= \text{Level} / \text{Corrected Amplitude} - \text{Limit} \\ \text{Level} / \text{Corrected Amplitude} &= \text{Read Level} + \text{Factor}\end{aligned}$$

## Test Results Summary

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

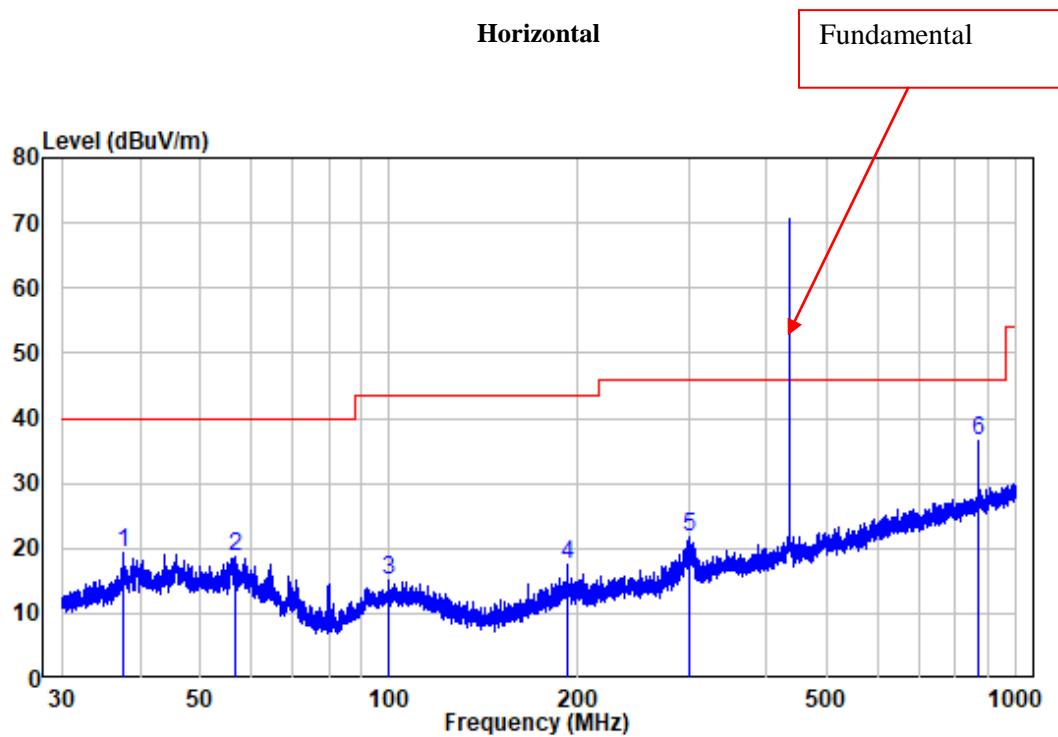
## Test Data

### Environmental Conditions

<b>Temperature:</b>	29 °C
<b>Relative Humidity:</b>	60 %
<b>ATM Pressure:</b>	101 kPa

*The testing was performed by Level Li on 2022-09-21.*

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

**30MHz – 1 GHz:**

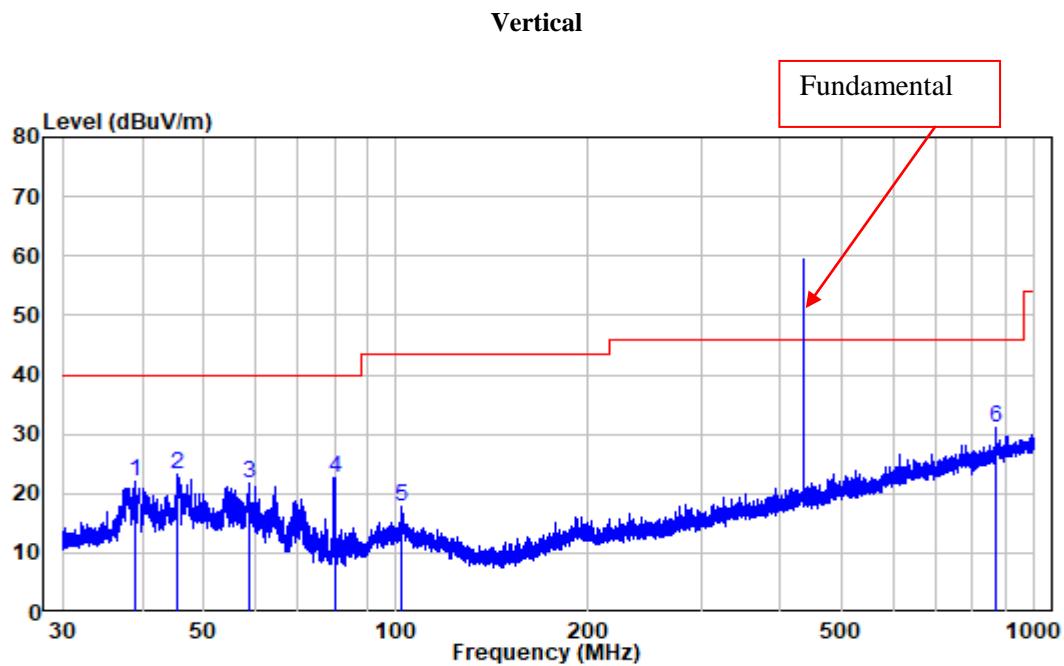
Site : chamber

Condition: 3m HORIZONTAL

Job No. : SZNS1220812-36600E-RF

Test Mode: Transmitting

	Freq	Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	37.515	-10.90	30.36	19.46	40.00	-20.54	Peak
2	56.643	-10.10	28.86	18.76	40.00	-21.24	Peak
3	100.009	-11.80	26.99	15.19	43.50	-28.31	Peak
4	192.419	-11.26	28.74	17.48	43.50	-26.02	Peak
5	301.687	-9.17	30.83	21.66	46.00	-24.34	Peak
6	867.840	0.85	35.67	36.52	60.83	-24.31	Peak



Site : chamber  
Condition: 3m VERTICAL  
Job No. : SZNS1220812-36600E-RF  
Test Mode: Transmitting

	Freq	Factor	Read Level	Limit Level	Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	38.956	-10.60	32.58	21.98	40.00	-18.02	Peak
2	45.236	-9.95	33.11	23.16	40.00	-16.84	Peak
3	58.715	-10.17	31.86	21.69	40.00	-18.31	Peak
4	80.010	-16.79	39.43	22.64	40.00	-17.36	Peak
5	101.867	-11.58	29.44	17.86	43.50	-25.64	Peak
6	867.840	0.86	30.19	31.05	60.83	-29.78	Peak

**Fundamental:**

Frequency (MHz)	Receiver		Turn-Table	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dB $\mu$ V/m)	FCC Part 15.231(b)	
	Reading (dB $\mu$ V)	PK/QP/Ave.	Angle Degree	Height (m)	Polar (H/V)			Limit (dB $\mu$ V/m)	Margin (dB)
433.92MHz									
433.92	76.38	PK	164	1.7	H	-5.72	70.66	80.83	-10.17
433.92	65.1	PK	50	1.6	V	-5.72	59.38	80.83	-21.45

**1GHz - 5 GHz:**

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dB $\mu$ V/m)	FCC Part 15.231(b)	
	Reading (dB $\mu$ V)	PK/QP/Ave.		Height (m)	Polar (H/V)			Limit (dB $\mu$ V/m)	Margin (dB)
433.92MHz									
1301.76	50.02	PK	230	2.1	H	-10.2	39.82	54	-14.18
1301.76	47.95	PK	1	1.6	V	-10.2	37.75	54	-16.25

**Note:**

The peak value can meet the limit of the average value.

Factor = Antenna factor (RX) + Cable Loss – Amplifier Factor

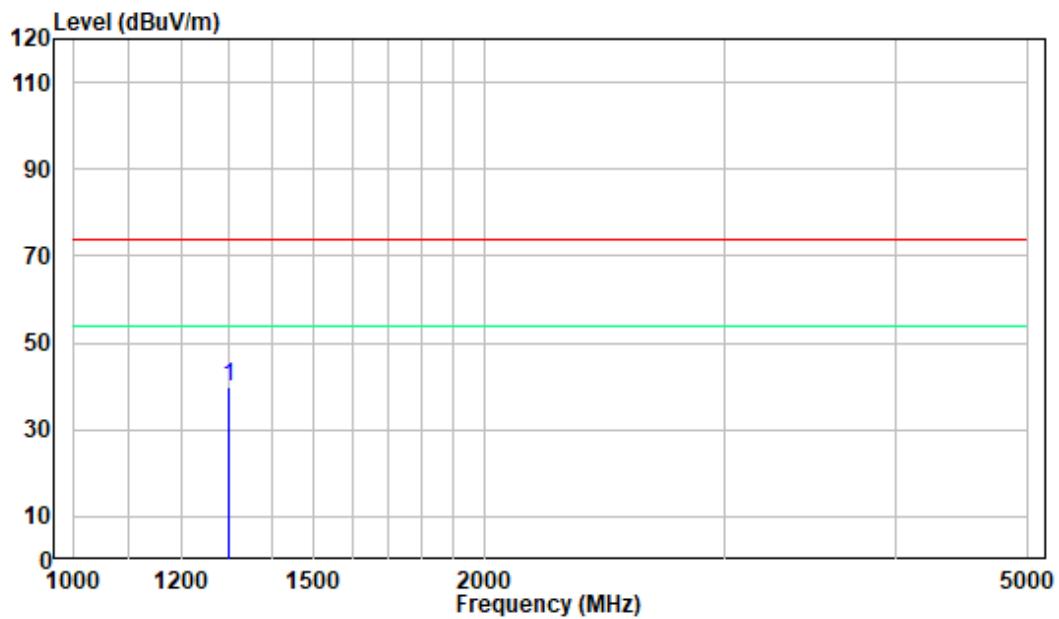
Absolute Level (Corrected Amplitude) = Factor + Reading

Margin = Absolute Level (Corrected Amplitude) – Limit

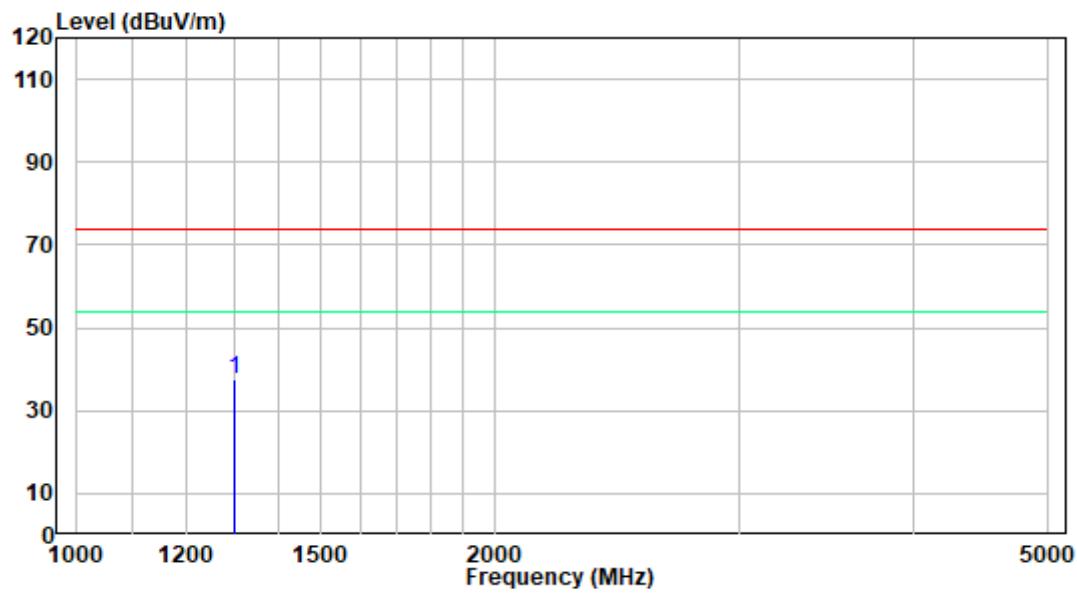
The other spurious emission which is in the noise floor level was not recorded.

Pre-scan plots:

**Horizontal**



**Vertical**



## 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.

### Test Procedure

1. Set center frequency of spectrum analyzer=operating frequency.
2. Set the spectrum analyzer as RBW=100kHz/ VBW=300kHz/ Span=0Hz.
3. Repeat above procedures until all frequency measured was complete.

### Test Data

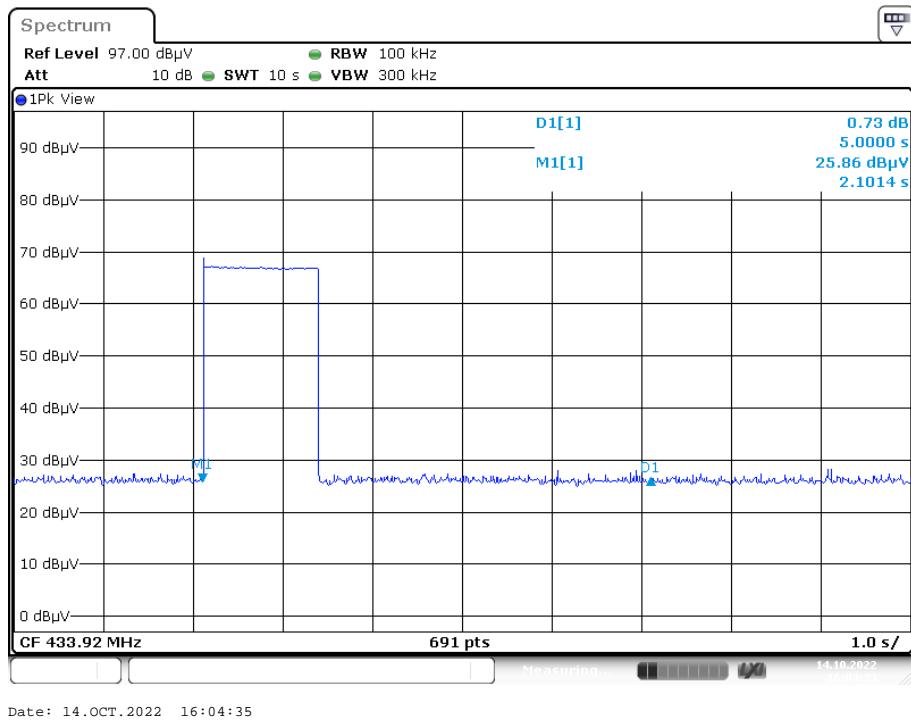
#### Environmental Conditions

Temperature:	24°C
Relative Humidity:	45 %
ATM Pressure:	101.1 kPa

The testing was performed by Jesse.Chen on 2022-10-14.

Test mode: Transmitting

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



## 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.

### 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

<b>Temperature:</b>	24 °C
<b>Relative Humidity:</b>	45 %
<b>ATM Pressure:</b>	101.1 kPa

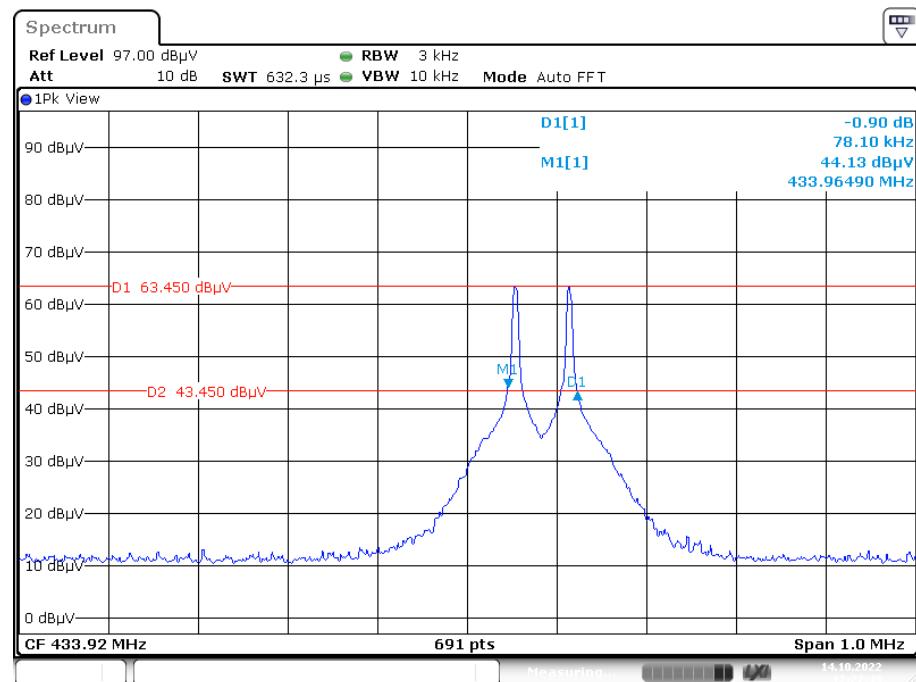
*The testing was performed by Jesse.Chen on 2022-10-14.*

*Test Mode: Transmitting*

Please refer to following table and plots.

Channel Frequency (MHz)	20 dB Emission Bandwidth (kHz)	Limit (kHz)	Result
433.92	78.10	<1084.8	Pass

## 20 dB Emission Bandwidth



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