



**RETLIF
TESTING
LABORATORIES**

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101 New Boston Road
Goffstown, NH 03045 USA

Tel: (603) 497-4600 • Fax: (603) 497-5281 • www.retlif.com

FCC Part 15, Subpart C Test Report

On

13.56 MHz Patient Transmitter
FCC ID: KNKTX0002

Customer Name: Secure Care Products, LLC

Customer P.O.: 70039823

Date of Report: April 26, 2022

Test Report No.: R-6701H-1

Test Start Date: April 7, 2022

Test Finish Date: April 7, 2022

Test Technician: M. Seamans

Approved By: T. Hannemann

Report Prepared By: P. Harris



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Certification and Signatures

We certify that this report is a true representation of the results obtained from the tests of the equipment stated. We further certify that the measurements shown in this report were made in accordance with the procedures indicated and vouch for the qualifications of all Retlif Testing Laboratories personnel taking them.



Scott Wentworth
Branch Manager



Todd Hannemann
EMC Test Engineer
iNARTE Certified Technician ATL-0255-T

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Retlif Testing Laboratories

Report No. R-6701H-1

Technical Information

Report Number: R-6701H-1

Applicant: Secure Care Products, LLC
39 Chenell Drive
Concord, NH 03301

Manufacturer: Secure Care Products, LLC

Manufacturer Address: 39 Chenell Drive
Concord, NH 03301

Test Sample: 13.56 MHz Patient Transmitter

Model Numbers: A21350907 and A21350908

Brand Name: Secure Care Products, LLC

Power Requirements: 3 VDC

Frequency of Operation: 13.56 MHz

Antenna Type: Ferrite Loop 13.56 MHz Tuned Tank Antenna

Equipment Use: Portable transmitter

Models A21350907 and A21350908 are electrically identical units.

These transmitters differ in the information they transmit. This is entirely under firmware control. There are two non-ID versions transmitting a simple 3 or 4 pulse pattern depending on the model.



Retlif Testing Laboratories

Report No. R-6701H-1

Test Specification:

FCC Rules and Regulations Part 15, Subpart C, Section 15.209

Test Procedure:

ANSI C63.10-2013

Test Facility:

Retlif Testing Laboratories

101 New Boston Road

Goffstown, NH 03045

FCC Designation Number: US5327

EUT Description:

The EUT provides awareness of personal security systems.

Tests Performed

The test methods performed on the EUT are shown below:

FCC Part 15, Subpart C	Test Method
15.209(a)	Field Strength of Fundamental
15.209 (a)	Field Strength of Spurious

General Test Requirements

1. The measurement procedures of ANSI C63.10-2013 were utilized as specified in FCC Part 15, Subpart C, Section 15.31(a)(3).
2. All measurements were performed at a 3 meter test distance.
3. The EUT was rotated throughout 360 degrees for all radiated emissions measurements as specified in FCC Section 15.31(f)(5).
4. All readily accessible EUT controls were adjusted in such a manner as to maximize the level of emissions in accordance with FCC Section 15.31(g).
5. Appropriate accessories were attached to all EUT ports during the performance of radiated emissions measurements as required by FCC Section 15.31(i).



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Requirements and Test Results

Requirement:

FCC Section 15.209 (a)

Field Strength of Fundamental

FCC Section 15.209(a) – The field strength of any emission within the band 1.705 MHz – 30 MHz shall not exceed 30 uV/M at 30 meters.

Field Strength Measurement & Calculation:

The following spectrum analyzer settings were used:

RBW = 1 MHz for $f \geq 1$ GHz, 100 kHz for $f \leq 1$ GHz

VBW \geq RBW

Detector Function = Peak or Average as applicable

Trace = Max Hold

Sweep = Auto

The maximized field strength of the emission was calculated as follows:

$$F_C = M_R + C_F$$

Where:

F_C = Corrected Field Strength Reading in dB μ V/m

M_R = Uncorrected Meter Reading in dB μ V

C_F = Correction Factor in dB (Pre-Amp + Antenna Factor + Cable Loss + Distance Factor)

For frequencies below 30 MHz a distance factor of -40dB/decade was utilized



Retlif Testing Laboratories

Report No. R-6701H-1

Requirements and Test Results (con't)

15.209 (a) Field Strength of Fundamental

Radiated Emissions Measurement Procedure:

The field strength of the fundamental emission was measured with a spectrum analyzer or EMI Receiver. The EUT was placed on an 80cm high wooden test stand located 3 meters from the test antenna on a FCC listed open area test site. Emissions from the EUT were maximized by re-orientating the test sample, rotating the test sample 360 degrees, changing the orientation of the receive antenna and raising and lowering the test antenna from 1 – 4 meters. The maximized field strength of each observed emission was measured, recorded and compared to the specified limits of 15.209(a) as appropriate.

- **Results:** The maximized measured field strength of the fundamental emission was below the specified test limit of 15.209(a). See test data.

Requirement:

15.209 Radiated Emission Limits; General Requirements

Fundamental Frequency (MHz)	Field Strength of Fundamental microvolts/meter	Measurement Distance
0.009 to 0.490	$2400/F(\text{kHz})$	300
0.490 to 1.705	$24000/F(\text{kHz})$	30
1.705 to 30.0	30	30
30.0 to 88.0	100	3
88.0 to 216.0	150	3
216.0 to 960.0	200	3
Above 960.0	500	3



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Equipment Lists

FCC Section 15.209(a) – Field Strength of Fundamental

EN	Manufacturer	Model No.	Description	Serial No.	Due Date
012	ETS / EMCO	6502	ANTENNA, ACTIVE LOOP, 10 kHz - 30 MHz	8811-2255	10/31/2022
4029B	RETLIF	RNH	OPEN AREA TEST SITE, ATTENUATION, 3 / 10 Meters	001	9/30/2023
5188	Cybertron	TSVQJA2221	COMPUTER, CONTROL, N/A	NSN	No Calibration Required
5242	TELEDYNE MICROWAVE	PR90-195-1275, 106'	CABLE, COAXIAL, 10 kHz - 6 GHz	N/A	9/30/2022
712	ROHDE & SCHWARZ	ESIB26	RECEIVER, EMI, 20 Hz - 26.5 GHz	834000/006	2/28/2023

FCC Section 15.209(a) – Field Strength of Spurious

EN	Manufacturer	Model No.	Description	Serial No.	Due Date
012	ETS / EMCO	6502	ANTENNA, ACTIVE LOOP, 10 kHz - 30 MHz	8811-2255	10/31/2022
3427B	ETS / EMCO	3104	ANTENNA, BICONICAL, 20 - 200 MHz	2315	4/30/2022
4029B	RETLIF	RNH	OPEN AREA TEST SITE, ATTENUATION, 3 / 10 Meters	001	9/30/2023
443	ELECTRO-METRICS	LPA-25	ANTENNA, LOG PERIODIC, 200 MHz - 1000 MHz	1014	1/31/2023
5188	Cybertron	TSVQJA2221	COMPUTER, CONTROL, N/A	NSN	No Calibration Required
5211	COM-POWER	CGO-501	GENERATOR, COMB, 1 MHz - 1 GHz	271123	5/31/2022
5242	TELEDYNE MICROWAVE	PR90-195-1275, 106'	CABLE, COAXIAL, 10 kHz - 6 GHz	N/A	9/30/2022
712	ROHDE & SCHWARZ	ESIB26	RECEIVER, EMI, 20 Hz - 26.5 GHz	834000/006	2/28/2023



Retlif Testing Laboratories

Report No. R-6701H-1

**Test Photographs
Field Strength of Fundamental
FCC Part 15, Subpart C, Section 15.209(a)**



Retlif Testing Laboratories

Report No. R-6701H-1

Test Photographs Field Strength of Fundamental



Test Configuration



Test Setup



Retlif Testing Laboratories

Report No. R-6701H-1

**FCC Section 15.209(a) – Field Strength of Fundamental
Test Data**



Retlif Testing Laboratories

Report No. R-6701H-1

EMISSIONS TEST DATA SHEET

Method:	Field Strength of Emissions - Fundamental Field Strength
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.209(a)
Job Number:	R-6701H-1
Customer:	Secure Care Products, LLC
Test Sample:	13.56 MHz Patient Transmitter
Model Number:	A21350907
Serial Number:	N/A
Operating Mode:	Transmitting modulated signal at 13.56 MHz, non-ID.
Technician:	M. Seamans
Date(s):	April 7 th , 2022
Notes:	Test Distance: 3 meters Detector: Peak Resolution BW: 10 kHz

TEST PARAMETERS

Frequency		Measured Peak Level	Correction Factor	Corrected Peak Reading		Peak Reading	Converted Peak Reading	Quasi-Peak Limit at 3m
MHz		dBuV	dB	dBuV/m		dBuV/m	uV/m	uV/m
13.56		45.20	11.47	56.67		56.67	681.55	3000.00



Retlif Testing Laboratories

Report No. R-6701H-1

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TEST PARAMETERS

Frequency		Measured Peak Level	Correction Factor	Corrected Peak Reading		Peak Reading	Converted Peak Reading	Quasi-Peak Limit at 3m
MHz		dBuV	dB	dBuV/m		dBuV/m	uV/m	uV/m
13.56		45.42	11.47	56.89		56.89	699.04	3000.00



Retlif Testing Laboratories

Report No. R-6701H-1

**Test Photographs
Field Strength of Spurious
FCC Part 15, Subpart C, Section 15.209(a)**



Retlif Testing Laboratories

Report No. R-6701H-1

Test Photographs
Field Strength of Spurious



EUT Configuration



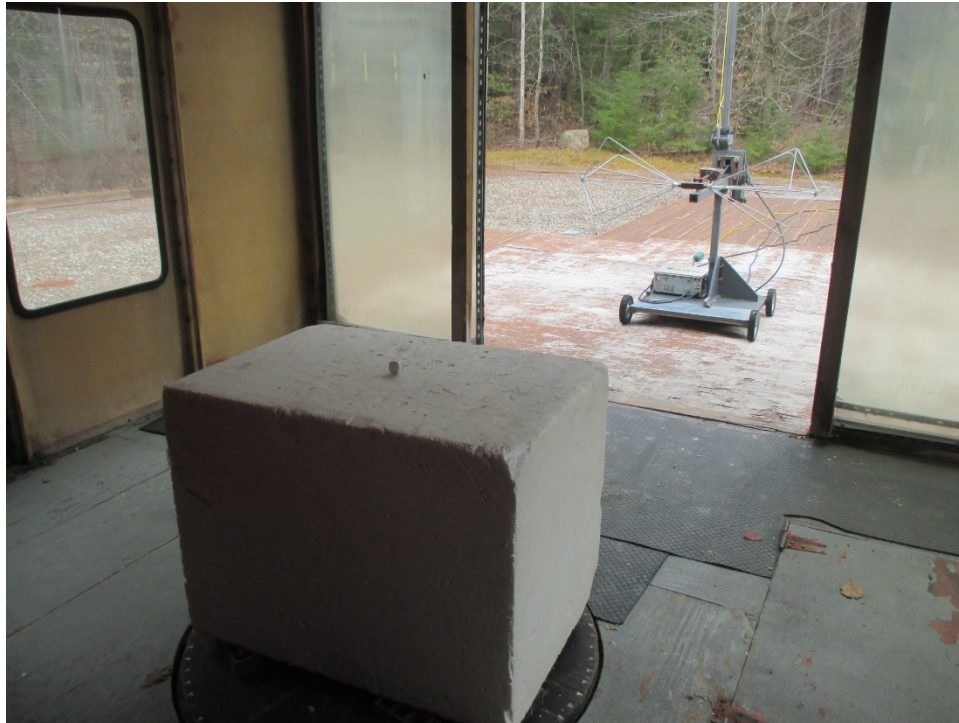
Test Setup, 9 kHz to 30 MHz



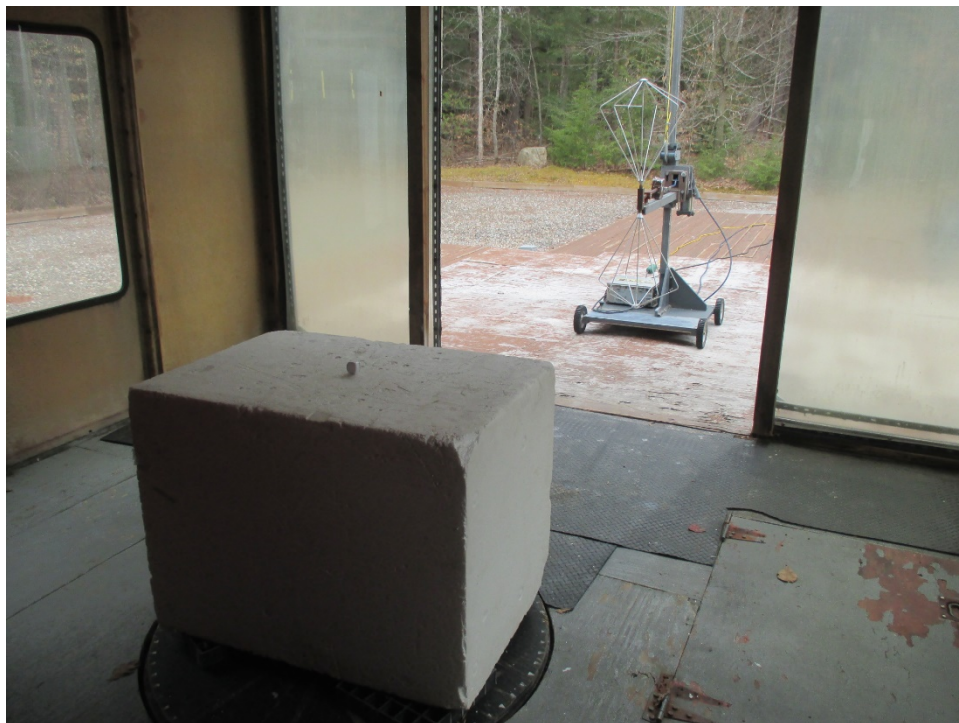
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Test Photographs Field Strength of Spurious



Test Setup, 30 MHz to 200 MHz, Horizontal Antenna Polarization



Test Setup, 30 MHz to 200 MHz, Vertical Antenna Polarization



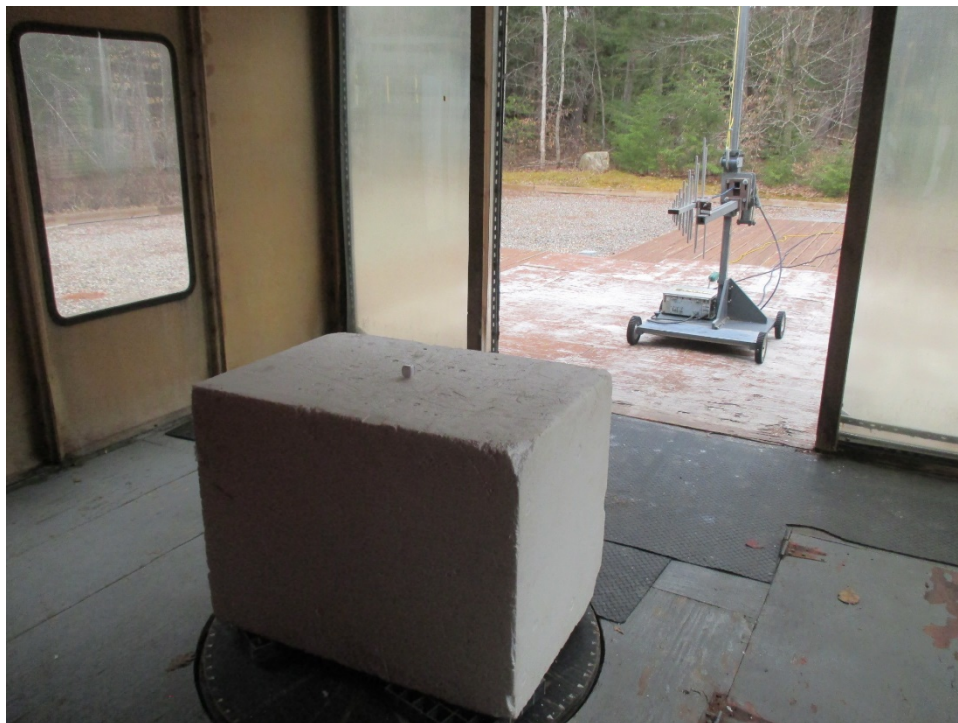
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Test Photographs
Field Strength of Spurious



Test Setup, 200 MHz to 1 GHz, Horizontal Antenna Polarization



Test Setup, 200 MHz to 1 GHz, Vertical Antenna Polarization



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Report No. R-6701H-1

**FCC Part 15, Subpart C, Section 15.209(a) –
Field Strength of Spurious
Test Data**



Retlif Testing Laboratories

Report No. R-6701H-1

EMISSIONS TEST DATA SHEET

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Model Number:	A21350907
Serial Number:	N/A
Operating Mode:	Transmitting modulated signal at 13.56 MHz, non-ID.
Technician:	M. Seamans
Date(s):	April 7 th , 2022
Notes:	Test Distance: 3 meters Detector: Peak Limits: Quasi-Peak (Average for the frequency bands 9-90kHz and 110-490kHz)

TEST PARAMETERS

Test Frequency	Antenna Position		Peak Reading	Correction Factor	Corrected Reading		Converted Peak Reading	Limit at 3M
MHz	(H/V)		dBuV	dB	dBuV/m		uV/m	uV/m
0.009	-	-	-	-	-	-	-	1769.912
	-	-	-	-	-	-	-	
0.480*	-	-	40.54	11.66	52.20	-	407.38	
	-	-	-	-	-	-	-	
0.490	-	-	-	-	-	-	-	1769.912
0.490	-	-	-	-	-	-	-	176.991
	-	-	-	-	-	-	-	
1.300*	-	-	24.40	11.70	36.10	-	63.83	
	-	-	-	-	-	-	-	
1.705	-	-	-	-	-	-	-	176.991
1.705	-	-	-	-	-	-	-	3000.000
	-	-	-	-	-	-	-	
1.720*	-	-	20.19	11.71	31.90	-	39.36	
2.150*	-	-	26.47	11.73	38.20	-	81.28	
5.000*	-	-	9.12	11.78	20.90	-	11.09	
15.000*	-	-	15.76	11.44	27.20	-	22.91	
	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	
30.000	-	-	-	-	-	-	-	3000.00

No EUT emissions were observed throughout the given frequency spectrum. * This emission is not from the EUT. It is a measurement of minimum measurement system sensitivity (Noise Floor).



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MHz	(H/V)		dBuV	dB	dBuV/m		uV/m	uV/m
30.00	-	-	-	-	-	-	-	100.00
	-	-	-	-	-	-	-	
88.00	-	-	-	-	-	-	-	100.00
88.00	-	-	-	-	-	-	-	150.00
	-	-	-	-	-	-	-	
216.00	-	-	-	-	-	-	-	150.00
216.00	-	-	-	-	-	-	-	200.00
	-	-	-	-	-	-	-	
960.00	-	-	-	-	-	-	-	200.00
960.00	-	-	-	-	-	-	-	500.00
	-	-	-	-	-	-	-	
1000.00	-	-	-	-	-	-	-	500.00

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	-	-	-	-	-	-	-	
0.490	-	-	-	-	-	-	-	1769.912
0.490	-	-	-	-	-	-	-	176.991
	-	-	-	-	-	-	-	
1.300*	-	-	24.40	11.70	36.10	-	63.83	
	-	-	-	-	-	-	-	
1.705	-	-	-	-	-	-	-	176.991
1.705	-	-	-	-	-	-	-	3000.000
	-	-	-	-	-	-	-	
1.720*	-	-	20.19	11.71	31.90	-	39.36	
2.150*	-	-	26.47	11.73	38.20	-	81.28	
5.000*	-	-	9.12	11.78	20.90	-	11.09	
15.000*	-	-	15.76	11.44	27.20	-	22.91	
	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	
30.000	-	-	-	-	-	-	-	3000.00

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	-	-	-	-	-	-	-	
88.00	-	-	-	-	-	-	-	100.00
88.00	-	-	-	-	-	-	-	150.00
	-	-	-	-	-	-	-	
216.00	-	-	-	-	-	-	-	150.00
216.00	-	-	-	-	-	-	-	200.00
	-	-	-	-	-	-	-	
960.00	-	-	-	-	-	-	-	200.00
960.00	-	-	-	-	-	-	-	500.00
	-	-	-	-	-	-	-	
1000.00	-	-	-	-	-	-	-	500.00

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