

Retlif Testing Laboratories

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**FCC COMPLIANCE TEST REPORT
ON
VISONIC, INC.
315 MHZ PULSED RF TRANSMITTER
MODEL: MCT101
FCC ID: GSAMCT101MDS**

CUSTOMER NAME: Visonic, Inc.

CUSTOMER P.O.: 9039

DATE OF REPORT: June 18, 1998

TEST REPORT NO.: R-7579-1

TEST START DATE: June 3, 1998

TEST FINISH DATE: June 5, 1998

TEST TECHNICIAN: D. Cortes

TEST ENGINEER: T. Schneider

SUPERVISOR: R.J. Reitz

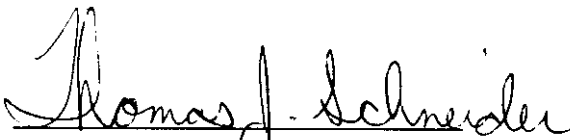
REPORT PREPARED BY: L. Anderson

GOVERNMENT SOURCE INSPECTION: Not Applicable

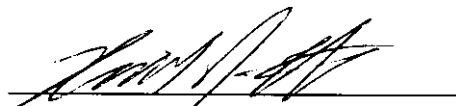
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CERTIFICATION AND SIGNATURES

We certify that this report is a true report 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.



Thomas J. Schneider
EMC Test Engineer
NVLAP Approved Signatory



Richard J. Reitz
Laboratory Manager
NVLAP Approved Signatory

NON-WARRANTY PROVISION

The testing services have been performed, findings obtained, and reports prepared in accordance with generally accepted testing laboratory principles and practices. This warranty is in lieu of all other warranties, either express or implied.

NON-ENDORSEMENT

This test report contains only findings and results arrived at after employing the specific test procedures and standards listed herein. It is not intended to constitute a recommendation endorsement, or certification of the product or material tested. This report must not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government.



Retlif Testing Laboratories

Test Report No. R-7579-1
FCC ID: GSAMCT101MDS

TABLE OF EXHIBITS

Exhibit 1	Equipment Label per 2.1033(b)(7)
Exhibit 2	Equipment Photographs per 2.1033(b)(7)
Exhibit 3	Technical Description per 2.1033(b)(4)
Exhibit 4	Block Diagram and Schematics per 2.1033(b)(5)
Exhibit 5	Installation and Operating Instructions per 2.1033(b)(3)
Exhibit 6	Report of Measurements - per 2.1033(b)(6)



Retlif Testing Laboratories

Test Report No. R-7579-1
FCC ID: GSAMCT101MDS

EXHIBIT 2

Equipment Photographs

Para. 2.1033(b)(7)



Retlif Testing Laboratories

Test Report No. R-7579-1
FCC ID: GSAMCT101MDS

EXHIBIT 6

Report of Measurements

Para. 2.1033(b)(6)



Retlif Testing Laboratories

Test Report No. R-7579-1
FCC ID: GSAMCT101MDS

APPLICANT

Visonic, Inc.
10 Northwood Drive
Bloomfield, CT 06002

MANUFACTURER

SAME

TEST SPECIFICATION: FCC Rules and Regulations Part 15, Subpart C, Para. 15.231

TEST PROCEDURE: ANSI C63.4:1992

TEST SAMPLE DESCRIPTION

BRANDNAME: Visonic, Inc. MODEL: MCT101

TYPE: Pulsed RF Transmitter

POWER REQUIREMENTS: One (1) 3.6 VDC Lithium Battery

FREQUENCY OF OPERATION: 315 MHz

TESTS PERFORMED

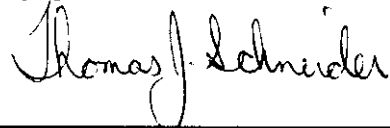
Para. 15.231(a), Radiated Emissions, Fundamental & Spurious

Para. 15.231(c), Occupied Bandwidth

Duty Cycle Determination

I HEREBY CERTIFY THAT: The measurements shown here were in accordance with the procedure indicated and that the energy emitted by this equipment was found to be within the limits applicable. I assume full responsibility for the accuracy and completeness of these measurements and vouch for the qualifications of all persons taking them.

I FURTHER CERTIFY THAT: On the basis of the measurements made, the device tested is capable of operation in compliance with the requirements of Part 15 of the FCC Rules under normal use and maintenance.

SIGN**PRINT**

Thomas J. Schneider

TITLE

EMC Test Engineer

**Retlif Testing Laboratories**

Test Report No. R-7579-1
FCC ID: GSAMCT101MDS

REPORT OF MEASUREMENTS

Applicant: Visonic, Inc.
Device: 315 MHz Security Transmitter
FCC ID: GSAMCT101MDS
Power Requirements: One (1) 3.6 VDC Lithium Battery
Applicable Rule Section: Part 15, Subpart C, Section 15.231

TEST RESULTS

- 15.231 (a) - The device is a Security/Safety of Life Transmitter designed to transmit emergency information in "man-down" situations for personnel safety and system status information.
- 15.231 (a)(1) - The transmitter is automatically activated by a switch if the user is knocked over or if the device tilts by more than 60 degrees. The device can also be manually activated by pressing an emergency button which is active at all times, irregardless of the switch position.
- 15.231 (a)(2) - During an emergency situation, the device transmits a 36 bit message along with a 24 bit transmitter ID every 30 seconds for up to 5 minutes.
- 15.231 (a)(3) - The unit performs periodic transmissions at 60 minute intervals for system integrity and status purposes.
- 15.231 (a)(4) - The device is used for Safety of Life purposes.
- 15.231 (b) - The fundamental field strength did not exceed $6040 \mu\text{V/M}$ (Average) at a test distance of 3 meters. In addition, the requirements of section 15.35 for averaging pulsed emissions and for limiting peak emissions were met.
- The field strength of harmonic and spurious emissions did not exceed $604 \mu\text{V/M}$ (AVERAGE).
- 15.231 (c) - The device operates at 315 MHz. The bandwidth of emissions did not exceed 0.25% of the operating frequency (787.5 kHz).



Retlif Testing Laboratories

Test Report No. R-7579-1
FCC ID: GSAMCT101MDS

REPORT OF MEASUREMENTS (continued)

DETERMINATION OF FIELD STRENGTH LIMITS

The field strength limits shown below are found in Section 15.231.

Frequency			Limit		
F1	=	260	3750	=	L1
Fo	=	315			Lo
F2	=	470	12500	=	L2

The formula below was utilized to determine the limits:

$$\text{Limit} = L1 + [(Fo-F1)(L2-L1)/(F2-F1)]$$

Solving yields:

$$\text{Fundamental Limit} = 6040 \mu\text{V/M (AVERAGE) @ 3 Meters}$$

$$\text{Harmonic Limit} = 604 \mu\text{V/M (AVERAGE) @ 3 Meters}$$

DETERMINATION OF DUTY CYCLE

Duty Cycle Determination was provided by Visonic and the worst case configuration was calculated as follows:

CALCULATION (WORST CASE):

$$T_e = .4 \text{ mS} \times 36 \text{ bits} \times 2 + .4 \text{ mS (Start Bit)} = 29.2 \text{ mS}$$

$$\text{DUTY CYCLE} = 29.2 \%$$

SPECTRUM ANALYZER DESENSITIZATION CONSIDERATIONS

Due to the nature of the emissions being measured, care was taken to ensure that the resolution bandwidth of the spectrum analyzer was adequate to provide accurate measurements. The following formula was utilized:

$$\text{Pulse Desensitization} = 20 \text{ Log (PW * BW * 1.5)}$$

Setting pulse desensitization equal to zero and utilizing the minimum observed pulse width of 450 microseconds yields a minimum required bandwidth of 1481 Hz. FCC specified bandwidths of 100kHz and 1MHz were utilized below and above 1GHz, respectively.



Retlif Testing Laboratories

Test Report No. R-7579-1
FCC ID: GSAMCT101MDS

REPORT OF MEASUREMENTS (continued)

GENERAL NOTES:

1. All readings were taken utilizing a peak detector function at a test distance of 3 meters.
2. The duty cycle was applied to the peak readings in order to determine the average value of the emissions.
3. All measurements were made with a new 3.6 VDC Lithium Battery installed in the unit.
4. The frequency was scanned from 30 MHz to 3.15 GHz. All emissions not reported were more than 20 dB below the specified limit.



Retlif Testing Laboratories

Test Report No. R-7579-1
FCC ID: GSAMCT101MDS

Exhibit 6

Report of Measurements

Radiated Emissions Data, Para. 15.231(b)



Retlif Testing Laboratories

Test Report No. R-7579-1
FCC ID: GSAMCT101MDS

RETLIF TESTING LABORATORIES

TABULAR DATA SHEET

TEST METHOD:	FCC Part 15 Subpart C Radiated Emissions		
CUSTOMER:	Visonic Inc.	JOB No.:	R-7579-1
TEST SAMPLE:	Pulsed RF Transmitter FCC ID: GSAMCT101MDS		
MODEL No.:	MCT 101	SERIAL No.:	N/A
TEST SPECIFICATION:	FCC Part 15 Subpart C PARAGRAPH: 15.231		
OPERATING MODE:	Continuously Transmitting 315 Mhz Signal		
TECHNICIAN:	Dennis Cortes	DATE:	June 3, 1998
NOTES:	Test Distance: 3 Meters Detector Function: Peak		

Test Frequency	Antenna Pol./Height	EUT Orientation	Meter Reading	Correction Factor	Corrected Reading	Converted Reading	Peak Limit
MHz	(H/V) / meters	X / Y / Z	dBuV	dB	dBuV/m	uV/m	uV/m
315	H/1.4	X	62.1	-3.6	58.5	841.4	60400
315	H/1.4	Y	52.2	-3.6	48.6	269.2	60400
315	H/2.7	Z	63.0	-3.6	59.4	933.3	60400
315	V/1.3	X	68.5	-3.6	64.9	1757.9	60400
315	V/1.3	Y	69.9	-3.6	66.3	2065.4	60400
315	V/2.5	Z	60.3	-3.6	56.7	683.9	60400
630	H/1.2	X	30.8	3.0	33.8	49.0	6040
630	H/1.3	Y	30.6	3.0	33.6	47.9	6040
630	H/1.3	Z	31.6	3.0	34.6	53.7	6040
630	V/1.1	X	32.6	3.0	35.6	60.3	6040
630	V/1.3	Y	34.9	3.0	37.9	78.5	6040
630	V/1.2	Z	31.0	3.0	34.0	50.1	6040
945	H/1.7	X	33.7	8.7	42.4	131.8	6040
945	H/1.2	Y	32.0	8.7	40.7	108.4	6040
945	H/1.2	Z	36.9	8.7	45.6	190.5	6040
945	V/1.3	X	39.9	8.7	48.6	269.2	6040
945	V/1.3	Y	42.2	8.7	50.9	350.8	6040
945	V/1.0	Z	34.9	8.7	43.6	151.4	6040
1260	H/1.3	X	45.8	-5.5	40.3	103.5	6040
1260	H/1.2	Y	45.3	-5.5	39.8	97.7	6040
1260	H/1.1	Z	48.4	-5.5	42.9	139.6	6040
1260	V/1.2	X	49.0	-5.5	43.5	149.6	6040
1260	V/1.2	Y	50.9	-5.5	45.4	186.2	6040
1260	V/1.9	Z	44.3	-5.5	38.8	87.1	6040
1575	H/1.3	X	44.8	-4.3	40.5	105.9	5000
1575	H/1.2	Y	44.0	-4.3	39.7	96.6	5000
1575	H/1.3	Z	45.0	-4.3	40.7	108.4	5000
1575	V/1.4	X	46.8	-4.3	42.5	133.4	5000
1575	V/1.2	Y	47.7	-4.3	43.4	147.9	5000
1575	V/1.1	Z	43.6	-4.3	39.3	92.3	5000
The frequency range was scanned from 30 MHz to 3.2 GHz. All emissions not recorded were more than 10dB below the specified limit. Emissions from the EUT do not exceed the specified limits.							
* = Noise Floor Measurements (Minimum System Sensitivity)							

RETLIF TESTING LABORATORIES

TABULAR DATA SHEET

TEST METHOD:	FCC Part 15 Subpart C Radiated Emissions		
CUSTOMER:	Visonic Inc.	JOB No.:	R-7579-1
TEST SAMPLE:	Pulsed RF Transmitter FCC ID:GSAMCT101MDS		
MODEL No.:	MCT 101	SERIAL No.:	N/A
TEST SPECIFICATION:	FCC Part 15 Subpart C PARAGRAPH: 15.231		
OPERATING MODE:	Continuously Transmitting 315 Mhz Signal		
TECHNICIAN:	Dennis Cortes	DATE:	June 3, 1998
NOTES:	Test Distance: 3 Meters Detector Function: Peak		

Test Frequency	Antenna Pol./Height	EUT Orientation	Meter Reading	Correction Factor	Corrected Reading	Converted Reading	Peak Limit
MHz	(H/V) / meters	X / Y / Z	dBuV	dB	dBuV/m	uV/m	uV/m
1890	H/1.6	X	44.5	-2.3	42.2	128.8	6040
1890	H/1.1	Y	44.0	-2.3	41.7	121.6	6040
1890	H/1.2	Z	44.0	-2.3	41.7	121.6	6040
1890	V/1.0	X	45.1	-2.3	42.8	138.0	6040
1890	V/1.2	Y	44.8	-2.3	42.5	133.4	6040
1890	V/1.8	Z	43.4	-2.3	41.1	113.5	6040
2205	H/1.0	X	*43.4	-1.2	42.2	128.8	5000
2205	H/1.0	Y	*43.4	-1.2	42.2	128.8	5000
2205	H/1.0	Z	*43.4	-1.2	42.2	128.8	5000
2205	V/1.0	X	*43.4	-1.2	42.2	128.8	5000
2205	V/1.0	Y	*43.4	-1.2	42.2	128.8	5000
2205	V/1.0	Z	*43.4	-1.2	42.2	128.8	5000
2520	H/1.0	X	*41.3	0.2	41.5	118.9	6040
2520	H/1.0	Y	*41.3	0.2	41.5	118.9	6040
2520	H/1.0	Z	*41.3	0.2	41.5	118.9	6040
2520	V/1.0	X	*41.3	0.2	41.5	118.9	6040
2520	V/1.0	Y	*41.3	0.2	41.5	118.9	6040
2520	V/1.0	Z	*41.3	0.2	41.5	118.9	6040
2835	H/1.0	X	*42.0	1.7	43.7	153.1	5000
2835	H/1.0	Y	*42.0	1.7	43.7	153.1	5000
2835	H/1.0	Z	*42.0	1.7	43.7	153.1	5000
2835	V/1.0	X	*42.0	1.7	43.7	153.1	5000
2835	V/1.0	Y	*42.0	1.7	43.7	153.1	5000
2835	V/1.0	Z	*42.0	1.7	43.7	153.1	5000
3150	H/1.0	X	*41.4	3.6	45.0	177.8	6040
3150	H/1.0	Y	*41.4	3.6	45.0	177.8	6040
3150	H/1.0	Z	*41.4	3.6	45.0	177.8	6040
3150	V/1.0	X	*41.4	3.6	45.0	177.8	6040
3150	V/1.0	Y	*41.4	3.6	45.0	177.8	6040
3150	V/1.0	Z	*41.4	3.6	45.0	177.8	6040

The frequency range was scanned from 30 MHz to 3.2 GHz. All emissions not recorded were more than 10dB below the specified limit. Emissions from the EUT do not exceed the specified limits.

*=Noise Floor Measurements (Minimum System Sensitivity)

RETLIF TESTING LABORATORIES

TABULAR DATA SHEET

TEST METHOD:	FCC Part 15 Subpart C Radiated Emissions		
CUSTOMER:	Visonic Inc.	JOB No.:	R-7579-1
TEST SAMPLE:	Pulsed RF Transmitter FCC ID: GSAMCT101MDS		
MODEL No.:	MCT 101	SERIAL No.:	N/A
TEST SPECIFICATION:	FCC Part 15 Subpart C PARAGRAPH: 15.231		
OPERATING MODE:	Continuously Transmitting 315 Mhz Signal		
TECHNICIAN:	Dennis Cortes	DATE:	June 3, 1998
NOTES:	Test Distance: 3 Meters Detector Function: Peak Worst Case Duty Cycle: 29.2% (-10.7 dB Duty Cycle Correction Factor)		

Test Frequency	Antenna Pol./Height	EUT Orientation	Peak Corrected Reading	Duty Cycle Corr. Factor	Corrected Average	Converted Average	Average Limit
MHz	(H/V) / meters	X / Y / Z	dBuV/m	dB	dBuV/m	uV/m	uV/m
315	H/1.4	X	58.5	-10.7	47.8	245.5	6040
315	H/1.4	Y	48.6	-10.7	37.9	78.5	6040
315	H/2.7	Z	59.4	-10.7	48.7	272.3	6040
315	V/1.3	X	64.9	-10.7	54.2	512.9	6040
315	V/1.3	Y	66.3	-10.7	55.6	602.6	6040
315	V/2.5	Z	56.7	-10.7	46.0	199.5	6040
630	H/1.2	X	33.8	-10.7	23.1	14.3	604
630	H/1.3	Y	33.6	-10.7	22.9	14.0	604
630	H/1.3	Z	34.6	-10.7	23.9	15.7	604
630	V/1.1	X	35.6	-10.7	24.9	17.6	604
630	V/1.3	Y	37.9	-10.7	27.2	22.9	604
630	V/1.2	Z	34.0	-10.7	23.3	14.6	604
945	H/1.7	X	42.4	-10.7	31.7	38.5	604
945	H/1.2	Y	40.7	-10.7	30.0	31.6	604
945	H/1.2	Z	45.6	-10.7	34.9	55.6	604
945	V/1.3	X	48.6	-10.7	37.9	78.5	604
945	V/1.3	Y	50.9	-10.7	40.2	102.3	604
945	V/1.0	Z	43.6	-10.7	32.9	44.2	604
1260	H/1.3	X	40.3	-10.7	29.6	30.2	604
1260	H/1.2	Y	39.8	-10.7	29.1	28.5	604
1260	H/1.1	Z	42.9	-10.7	32.2	40.7	604
1260	V/1.2	X	43.5	-10.7	32.8	43.7	604
1260	V/1.2	Y	45.4	-10.7	34.7	54.3	604
1260	V/1.9	Z	38.8	-10.7	28.1	25.4	604
1575	H/1.3	X	40.5	-10.7	29.8	30.9	500
1575	H/1.2	Y	39.7	-10.7	29.0	28.2	500
1575	H/1.3	Z	40.7	-10.7	30.0	31.6	500
1575	V/1.4	X	42.5	-10.7	31.8	38.9	500
1575	V/1.2	Y	43.4	-10.7	32.7	43.2	500
1575	V/1.1	Z	39.3	-10.7	28.6	26.9	500

The frequency range was scanned from 30 MHz to 3.2 GHz. All emissions not recorded were more than 10dB below the specified limit. Emissions from the EUT do not exceed the specified limits.

RETLIF TESTING LABORATORIES

TABULAR DATA SHEET

TEST METHOD:	FCC Part 15 Subpart C Radiated Emissions		
CUSTOMER:	Visonic Inc.	JOB No.:	R-7579-1
TEST SAMPLE:	Pulsed RF Transmitter FCC ID:GSAMCT101MDS		
MODEL No.:	MCT 101	SERIAL No.:	N/A
TEST SPECIFICATION:	FCC Part 15 Subpart C PARAGRAPH: 15.231		
OPERATING MODE:	Continuously transmitting 315 Mhz Signal		
TECHNICIAN:	Dennis Cortes	DATE:	June 3, 1998
NOTES:	Test Distance: 3 Meters Detector Function: Peak Worst Case Duty Cycle: 29.2% (-10.7 dB Duty Cycle Correction Factor)		

Test Frequency	Antenna Pol./Height	EUT Orientation	Peak Corrected Reading	Duty Cycle Corr. Factor	Corrected Average	Converted Average	Average Limit
MHz	(H/V) / meters	X / Y / Z	dBuV/m	dB	dBuV/m	uV/m	uV/m
1890	H/1.6	X	42.2	-10.7	31.5	37.6	604
1890	H/1.1	Y	41.7	-10.7	31.0	35.5	604
1890	H/1.2	Z	41.7	-10.7	31.0	35.5	604
1890	V/1.0	X	42.8	-10.7	32.1	40.3	604
1890	V/1.2	Y	42.5	-10.7	31.8	38.9	604
1890	V/1.8	Z	41.1	-10.7	30.4	33.1	604
2205	H/1.0	X	*42.2	-10.7	31.5	37.6	500
2205	H/1.0	Y	*42.2	-10.7	31.5	37.6	500
2205	H/1.0	Z	*42.2	-10.7	31.5	37.6	500
2205	V/1.0	X	*42.2	-10.7	31.5	37.6	500
2205	V/1.0	Y	*42.2	-10.7	31.5	37.6	500
2205	V/1.0	Z	*42.2	-10.7	31.5	37.6	500
2520	H/1.0	X	*41.5	-10.7	30.8	34.7	604
2520	H/1.0	Y	*41.5	-10.7	30.8	34.7	604
2520	H/1.0	Z	*41.5	-10.7	30.8	34.7	604
2520	V/1.0	X	*41.5	-10.7	30.8	34.7	604
2520	V/1.0	Y	*41.5	-10.7	30.8	34.7	604
2520	V/1.0	Z	*41.5	-10.7	30.8	34.7	604
2835	H/1.0	X	*43.7	-10.7	33.0	44.7	500
2835	H/1.0	Y	*43.7	-10.7	33.0	44.7	500
2835	H/1.0	Z	*43.7	-10.7	33.0	44.7	500
2835	V/1.0	X	*43.7	-10.7	33.0	44.7	500
2835	V/1.0	Y	*43.7	-10.7	33.0	44.7	500
2835	V/1.0	Z	*43.7	-10.7	33.0	44.7	500
3150	H/1.0	X	*45.0	-10.7	34.3	51.9	604
3150	H/1.0	Y	*45.0	-10.7	34.3	51.9	604
3150	H/1.0	Z	*45.0	-10.7	34.3	51.9	604
3150	V/1.0	X	*45.0	-10.7	34.3	51.9	604
3150	V/1.0	Y	*45.0	-10.7	34.3	51.9	604
3150	V/1.0	Z	*45.0	-10.7	34.3	51.9	604
The frequency range was scanned from 30 MHz to 3.2 GHz. All emissions not recorded were more than 10dB below the specified limit. Emissions from the EUT do not exceed the specified limits.							

EQUIPMENT LIST

FCC Part 15 Subpart C Radiated Emissions

EN	Type	Manufacturer	Frequency Range	Model No.	Cal Date	Due Date
067	Open Area Test Site	Retlif	3 Meter	RNY	8/30/97	8/30/99
128C	Double Ridge Guide	Eaton Corporation	1 GHz - 18 GHz	96001	10/6/97	10/6/98
133	Broadband Pre-Amplifier	Electro-Metrics	10 kHz - 1 GHz, 26dB	BPA-1000	6/20/97	6/20/98
141	Spectrum Analyzer	Hewlett Packard	100 Hz - 40 GHz	8566B	3/2/98	9/2/98
141A	Graphics Plotter	Hewlett Packard	N/A	7470A	3/4/98	3/4/99
141B	Quasi-Peak Adaptor	Hewlett Packard	100 Hz - 1 GHz	85650A	3/3/98	9/3/98
206B	6.0 dB Attenuator	Texscan	0 - 1.0 GHz	FP-50 - 6 dB	6/20/97	6/20/98
523	Biconilog	Electro-Mechanics	26 MHz - 1100 MHz	3143	9/30/97	9/30/98
543	Preamplifier	Hewlett Packard	1.0 GHz - 26.5 GHz	8449B	8/12/97	8/12/98



Retlif Testing Laboratories

Test Report No. R-7579-1
FCC ID: GSAMCT101MDS

Exhibit 6

Report of Measurements

Occupied Bandwidth, Para. 15.231(c)



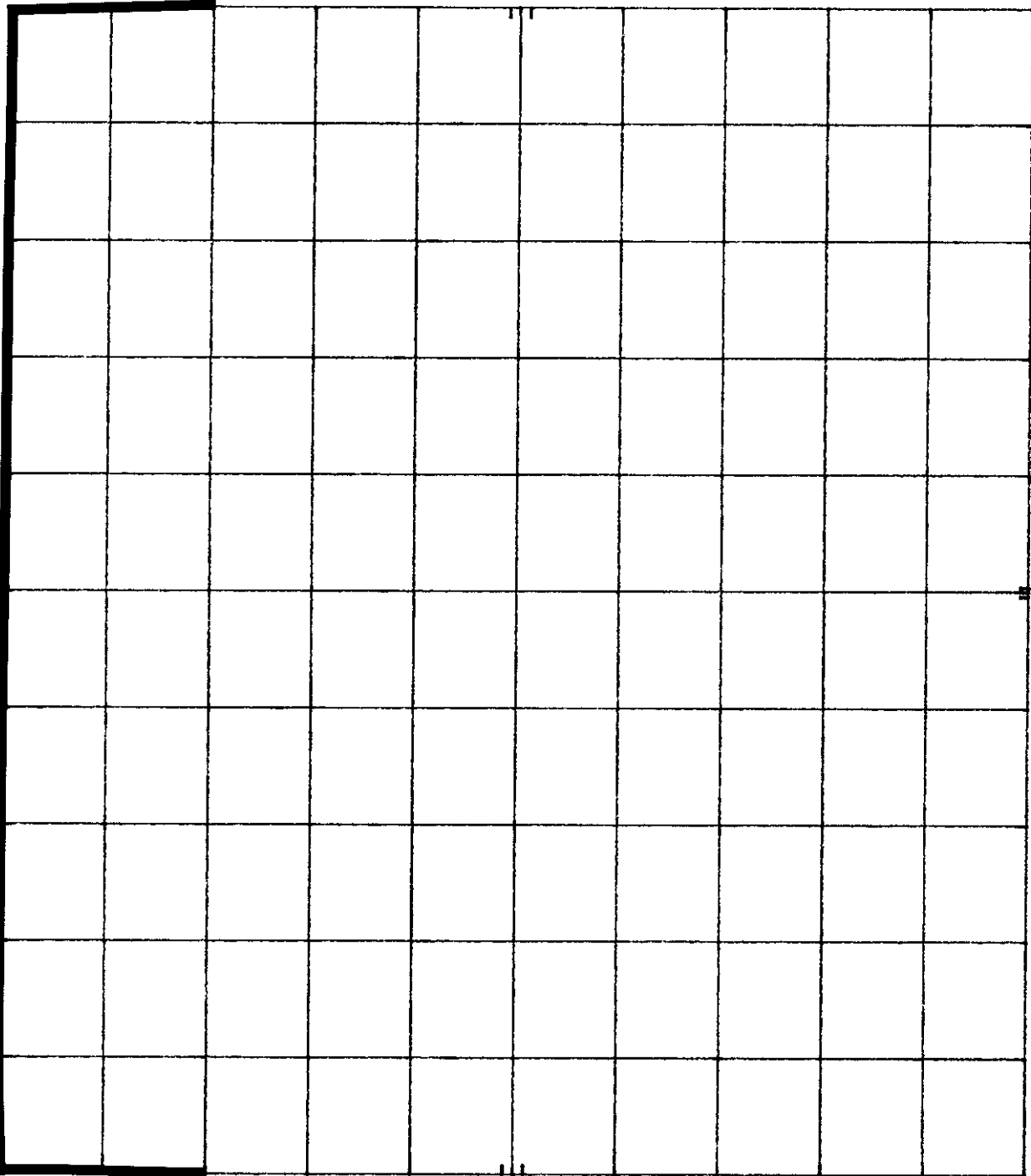
Retlif Testing Laboratories

Test Report No. R-7579-1
FCC ID: GSAMCT101MDS

R-7579 MCT 101 OCC BW DC 6/3/98
 REF 75.2 dBμV ATTEN 10 dB

hp

10 dB/



CENTER 315.000 MHz
 RES BW 10 kHz
 VBW 30 kHz
 SPAN 788 kHz
 SWP 30.0 msec

Customer:	Visonic, Inc.		
Test Sample:	315 Mhz Transmitter		
Model No:	MCT101	FCC ID:	GSAMCT101MDS
Test Method:	FCC 15.231 (c) Occupied Bandwidth		
Notes:	The Bandwidth of the emission is not wider than .25% of the center frequency 20dB down from the modulated carrier		
Date:	June 3, 1998	Tech:	Dennis Cortes
Sheet	1	of	2



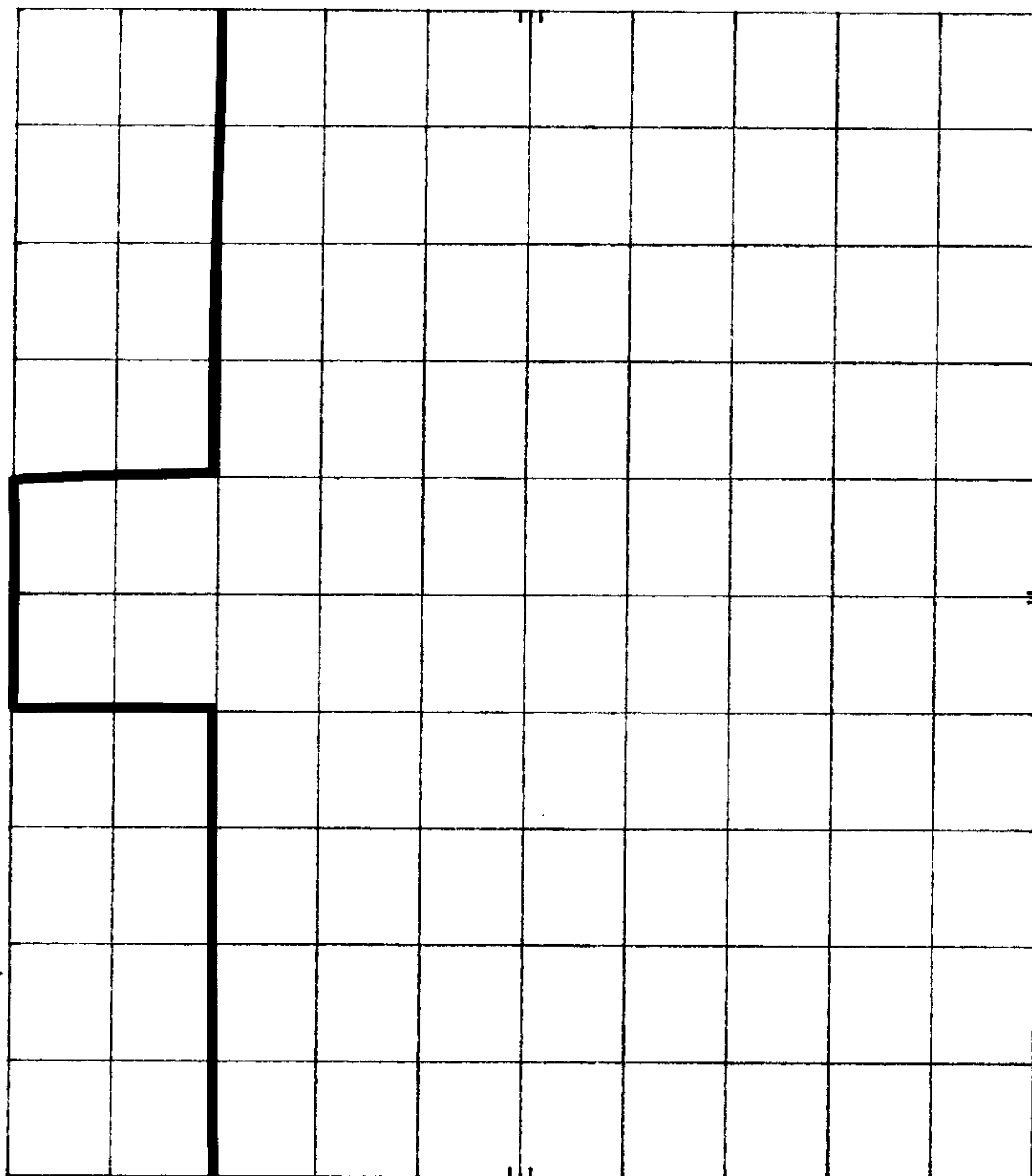
Retlif Testing Laboratories

Report No. R-7579-1

R-7579 MCT 101 OCC BW DC 6/3/98
 REF 75.2 dBμV ATTN 10 dB

hp

10 dB/



CENTER 315.00 MHz

SPAN 3.94 MHz
 SWP 118 msec

VBW 30 kHz

RES BW 10 kHz

Customer:	Visonic, Inc.		
Test Sample:	315 Mhz Transmitter		
Model No.:	MCT101	FCC ID:	GSAMCT101MDS
Test Method:	FCC 15.231 (c) Occupied Bandwidth		
Notes:	The Bandwidth of the emission is not wider than .25% of the center frequency 20dB down from the modulated carrier		
Date:	June 3, 1998	Tech:	Dennis Cortes
Sheet	2	of	2



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