

EXHIBIT N – Frequency Stability

FCC ID# NMEAVTS1030

EMISSIONS DATA SHEET

EUT: Alarm View		Work Order: DATC0007
Serial Number: 102037		Date: 05/31/01
Customer: Data Critical Corporation		Temperature: 75 degrees F
Attendees: N/A	Tested by: Rod Peloquin	Humidity: 38% RH
Customer Ref. No.: N/A	Power: N/A	Job Site: EV06

TEST SPECIFICATIONS			
Specification: 47 CFR 2.1055 & 90.213	Year: Most Current	Method: TIA/EIA - 603	Year: 1993

SAMPLE CALCULATIONS

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COMMENTS

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EUT OPERATING MODES

Transmitting mid band with no modulation (CW mode).

DEVIATIONS FROM TEST STANDARD

None


REQUIREMENTS

Minimum frequency stability of 5.0 parts per million (ppm) for variations of temperature and supply voltage (AC and battery power)

RESULTS **MINIMUM FREQUENCY STABILITY**

Pass 1.00 ppm

SIGNATURE


 Tested By: _____

DESCRIPTION OF TEST

Frequency Stability

Frequency Stability with Variation of Ambient Temperature (Primary Supply = 120V, 60Hz)

Temp (°C)	Assigned Frequency (MHz)	Measured Frequency (MHz)	Tolerance (ppm)	Specification (ppm)
-30	457.037500	457.037955	1.00	5
-20	457.037500	457.037915	0.91	5
-10	457.037500	457.037847	0.76	5
0	457.037500	457.037715	0.47	5
10	457.037500	457.037575	0.16	5
20	457.037500	457.037475	0.05	5
30	457.037500	457.037375	0.27	5
40	457.037500	457.037251	0.54	5
50	457.037500	457.037157	0.75	5

Frequency Stability with Variation of Primary Supply Voltage (Ambient Temperature = 25°C)

Voltage (VAC, 60Hz)	Assigned Frequency (MHz)	Measured Frequency (MHz)	Tolerance (ppm)	Specification (ppm)
138 (115%)	457.037500	457.037325	0.38	5
132 (110%)	457.037500	457.037335	0.36	5
126 (105%)	457.037500	457.037340	0.35	5
120 (100%)	457.037500	457.037345	0.34	5
114 (95%)	457.037500	457.037340	0.35	5
108 (90%)	457.037500	457.037330	0.37	5
102 (85%)	457.037500	457.037325	0.38	5

Frequency Stability with Variation of Battery Voltage (Ambient Temperature = 25°C)

Voltage (VDC)	Assigned Frequency (MHz)	Measured Frequency (MHz)	Tolerance (ppm)	Specification (ppm)
12.42 (115%)	457.037500	457.037720	0.48	5
11.88 (110%)	457.037500	457.037640	0.31	5
11.34 (105%)	457.037500	457.037640	0.31	5
10.8 (100%)	457.037500	457.037620	0.26	5
10.26 (95%)	457.037500	457.037600	0.22	5
9.72 (90%)	457.037500	457.037600	0.22	5
9.18 (85%)	457.037500	457.037560	0.13	5
9.25 (end point)	457.037500	457.037520	0.04	5