



DATE: 27 December 2010

I.T.L. (PRODUCT TESTING) LTD. FCC Radio Test Report for ElmoTech Ltd.

Equipment under test:

Ankle Bracelet

TRXS-840-2

Written by:

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Approved by: For/

A. Moses, Test Engineer

Approved by:

I. Raz, EMC Laboratory Manager

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This report relates only to items tested.





Measurement/Technical Report for ElmoTech Ltd.

Ankle Bracelet

TRXS-840-2

FCC ID: LSQ-TRXS-840-2

This report concerns: Original Grant: x

Class I change: Class II change:

Equipment type: Part 15 Security/Remote Control Transceiver

47CFR15 Section 15231 (a-d)

Measurement procedure used is ANSI C63.4-2003.

Application for Certification:

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1. General Information

1.1 Administrative Information

Manufacturer: ElmoTech Ltd.

Manufacturer's Address: P.O.B. 13236

2 Habarzel St., Tel-Aviv, 61132

Israel

Tel: +972-3-767-1700 Fax: +972-3-767-1701

Manufacturer's Representative: Vitaly Shuliatsky

Equipment Under Test (E.U.T): Ankle Bracelet

Equipment Model No.: TRXS-840-2

Equipment Serial No.: 41400

Date of Receipt of E.U.T: 02.11.10

Start of Test: 02.11.10

End of Test: 02.11.10

Test Laboratory Location: I.T.L (Product Testing) Ltd.

Kfar Bin Nun, ISRAEL 99780

Test Specifications: FCC Part 15 Subpart C



1.2 List of Accreditations

The EMC laboratory of I.T.L. is accredited by the following bodies:

- 1. The American Association for Laboratory Accreditation (A2LA) (U.S.A.), Certificate No. 1152.01.
- 2. The Federal Communications Commission (FCC) (U.S.A.), Registration No. 90715.
- 3. The Israel Ministry of the Environment (Israel), Registration No. 1104/01.
- 4. The Voluntary Control Council for Interference by Information Technology Equipment (VCCI) (Japan), Registration Numbers: C-1350, R-1285.
- 5. Industry Canada (Canada), IC File No.: 46405-4025; Site No. IC 4025B-1.
- 6. TUV Product Services, England, ASLLAS No. 97201.

I.T.L. Product Testing Ltd. is accredited by the American Association for Laboratory Accreditation (A2LA) and the results shown in this test report have been determined in accordance with I.T.L.'s terms of accreditation unless stated otherwise in the report.



1.3 Product Description

The TRXS-840-2 Ankle Tag is a small unit worn on the ankle of the monitored offender.

It's an ankle transmitter with carrier frequency 433.92MHz, GFSK, 19.2kBit/sec and maximum 4dbm output power, Pseudorandom periodic transmission every 20sec.

The Tag is turned on and off by a probation officer, using an electronic key which is temporarily attached to the tag strap's pins.

1.4 Test Methodology

Radiated testing was performed according to the procedures in ANSI C63.4: 2003. Radiated testing was performed at an antenna to EUT distance of 3 meters.

1.5 Test Facility

The radiated emissions tests were performed at I.T.L.'s testing facility at Kfar Bin-Nun, Israel. This site is a FCC listed test laboratory (FCC Registration No. 90715, date of listing September 03, 2009).

I.T.L.'s EMC Laboratory is also accredited by A2LA, certificate No. 1152.01.

1.6 Measurement Uncertainty

Radiated Emission

The Open Site complies with the ± 4 dB Normalized Site Attenuation requirements of ANSI C63.4-2003. In accordance with Paragraph 5.4.6.1 of this standard, this tolerance includes instrumentation calibration errors, measurement technique errors, and errors due to site anomalies.



2. System Test Configuration

2.1 Justification

Radiated emission screening was performed in 3 orthogonal orientations. The worst case orientation was the horizontal position.

2.2 Special Accessories

No special accessories were needed.

2.3 Equipment Modifications

No modifications were needed in order to achieve compliance

2.4 Configuration of Tested System

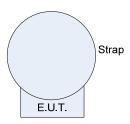


Figure 1. Configuration of Tested System



3. Radiated Measurement Test Set-up Photos



Figure 2. Radiated Emission Test 9 kHz - 30 MHz



Figure 3. Radiated Emission Test 30 MHz - 4340 MHz



4. Average Factor Calculation

- 1. Burst duration =9.5 msec
- 2. Time between bursts = 19.8 sec, > 100 msec

3. Average Factor =
$$20 \log \left[\frac{\text{Pulse duration}}{\text{Pulse period}} \times \frac{\text{burst duration}}{100 \text{msec}} \times \text{Num of burst within } 100 \text{msec} \right]$$

Average Factor =
$$20 \log \left[1 \times \frac{9.5}{100} \times 1 \right] = -20.44 dB$$

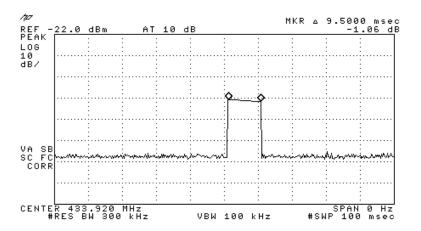


Figure 4. Burst duration = 9.5msec



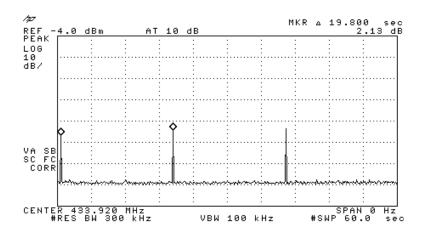


Figure 5. Time between bursts 19.8sec >100ms



4.1 Test Instrumentation Used

Instrument	Manufacturer	Model	Serial Number	Calibration	Period
Spectrum Analyzer	НР	8592L	3826A01204	March 14, 2010	1 Year
Antenna Bioconical	ARA	BCD 235/B	1041	August 1, 2010	1 year
Antenna Log Periodic	ARA	LPD-2010/A	1038	March 24, 2010	1 year
Antenna-Log Periodic	A.H.System	SAS-200/511	253	January 29, 2009	2 year
Antenna Mast	ARA	AAM-4A	1001	N/A	N/A
Turntable	ARA	ART-1001/4	1001	N/A	N/A
Mast & Table Controller	ARA	ACU-2/5	1001	August 1, 2010	1 year



5. Periodic Operation

5.1 Specification

F.C.C., Part 15, Subpart C, Section 15.231(a)

5.2 Requirements

Requirement	Rationale	Verdict
Continuous transmissions are not permitted.	N/A	Complies
A manually operated transmitter shall be deactivated within not more than 5 seconds after releasing the switch.	N/A	Complies
An automatically operated transmitter shall cease operation within 5 seconds after activation.	N/A	Complies
Periodic transmissions at regular predetermined intervals are not permitted.	N/A	Complies
Polling or supervised transmissions to determine system integrity of transmitter used in security or safety applications shall not exceed more than 2 seconds per hour.	See Figure 6 to Figure 7.	Complies

5.3 Results

JUDGEMENT: Passed

The EUT met the FCC Part 15, Subpart C, Section 15.231(a) specification requirements.

TEST PERSONNEL:

Tester Signature: For/

Typed/Printed Name: A. Moses

Date: 27.12.10



Periodic Operation

E.U.T Description Ankle Bracelet
Type TRXS-840-2
Serial Number: 41400

Specification: F.C.C., Part 15, Subpart C, 15.231(a)

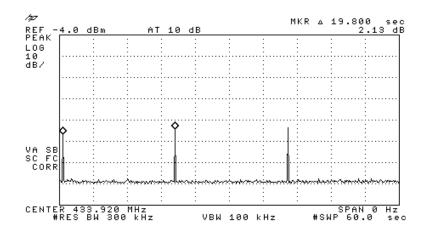


Figure 6. System Integrity every 19.8 sec

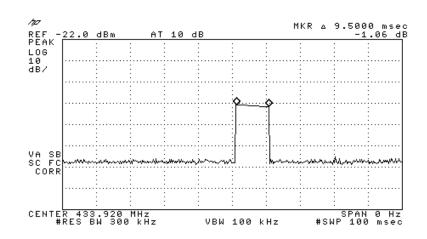


Figure 7. System Integrity burst width

(In one hour : 9.5milliseconds X 182 (Pulse per hour)= 1728 milliseconds<2000msec)



6. Field Strength of Fundamental

6.1 Test Specification

F.C.C., Part 15, Subpart C, Section 15.231(b)

6.2 Test Procedure

The E.U.T. operation mode and test set-up are as described in Section 3.

The E.U.T. was placed on a non-conductive table, 0.8 meters above the O.A.T.S. ground plane.

The EMI receiver was set to the E.U.T. Fundamental Frequency (433.92MHz) and Peak Detection.

The turntable and antenna mast were adjusted for maximum level reading on the EMI receiver.

The measurement was performed for vertical and horizontal polarizations of the test antenna.

The average result is:

Peak Level($dB\mu V/m$) + E.U.T. Duty Cycle Factor, in 100msec time window (dB)

6.3 Measured Data

JUDGEMENT: Passed by 2.12 dB

The EUT met the FCC Part 15, Subpart C, Section 15.231(b) specification requirements.

The details of the highest emissions are given in Figure 8 to Figure 10.

TEST PERSONNEL:

Tester Signature: For/_____ Date: 27.12.10

Typed/Printed Name: A. Moses



Field Strength of Fundamental

E.U.T Description Ankle Bracelet Type TRXS-840-2

Serial Number: 41400

Specification: F.C.C., Part 15, Subpart C, 15.231(b)

Antenna Polarization: Horizontal/Vertical

Test Distance: 3 meters Detector: Peak

Freq.	Pol.	Peak Reading	Average Factor	AVG Result	AVG Specification	Margin
(MHz)	V/H	$\left(dB\mu V/m\right)$	(dB)	$(dB\mu V/m)$	$\left(dB\mu V/m\right)$	(dB)
433.92	V	89.96	-20.44	69.53	80.83	-11.31
433.92	Н	99.15	-20.44	78.71	80.83	-2.12

Figure 8. Field Strength of Fundamental. Antenna Polarization: HORIZONTAL/VERTICAL.

Detector: Peak

Notes:

- 1. Margin refers to the test results obtained minus specified requirement; thus a positive number indicates failure, and a negative result indicates that the product passes the test.
- 2. "Peak Reading." (dBµV/m) included the "Correction Factors".
- 3. "Correction Factors" (dB) = Test Antenna Correction Factor(dB) + Cable Loss.
- 4. "Average Result" ($dB\mu V/m$)=Peak Reading ($dB\mu V/m$) + Average Factor (dB)



Field Strength of Fundamental

E.U.T Description Ankle Bracelet
Type TRXS-840-2
Serial Number: 41400

Specification: F.C.C., Part 15, Subpart C, 15.231(b)

Antenna Polarization: Horizontal

Test Distance: 3 meters Detector: Peak



ACTV DET: PEAK MEAS DET: PEAK QP AVG MKR 433.925 MHz B9.96 dBμV/m

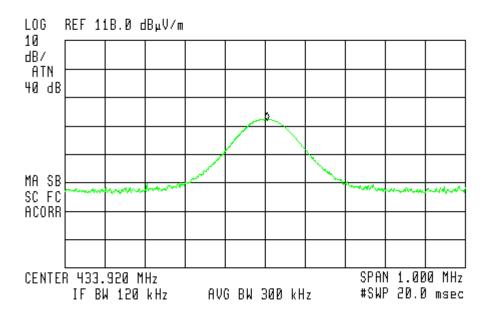


Figure 9. Field Strength of Fundamental. Antenna Polarization: HORIZONTAL.



Field Strength of Fundamental

E.U.T Description Ankle Bracelet TRXS-840-2 Type Serial Number: 41400

Specification: F.C.C., Part 15, Subpart C, 15.231(b)

Antenna Polarization: Vertical

Test Distance: 3 meters Detector: Peak

00

ACTV DET: PEAK MEAS DET: PEAK QP AVG MKR 433.910 MHz

99.15 dB₄V/m

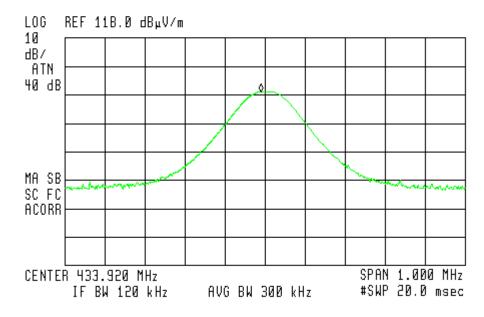


Figure 10. Field Strength of Fundamental. Antenna Polarization: VERTICAL.



6.4 Test Instrumentation Used, Field Strength of Fundamental

Instrument	Manufacturer	Model	Serial Number	Calibration	Period
EMI Receiver	НР	85422E	3906A00276	November 10, 2009	1Year
RF Section	НР	85420E	3705A00248	November 10, 2009	1Year
Antenna Log Periodic	ARA	LPD-2010/A	1038	March 24, 2010	1 Year
Antenna Mast	ARA	AAM-4A	1001	N/A	N/A
Turntable	ARA	ART-1001/4	1001	N/A	N/A
Mast & Table Controller	ARA	ACU-2/5	1001	N/A	N/A
Printer	НР	LaserJet 2200	JPKGC19982	N/A	N/A



7. Radiated Emission, 9 kHz – 30 MHz

7.1 Test Specification

9 kHz-30 MHz, FCC, Part 15, Subpart C, Section 209

7.2 Test Procedure

The E.U.T. operation mode and test set-up are as described in Section 3.

A preliminary measurement to characterize the E.U.T was performed inside the shielded room at a distance of 3 meters, using peak detection mode and broadband antennas. The preliminary measurements produced a list of the highest emissions. The E.U.T was then transferred to the open site, and placed on a remote-controlled turntable. The E.U.T was placed on a non-metallic table, 0.8 meters above the ground. The configuration tested is shown in Figure 3.1.

The frequency range 9 kHz-30 MHz was scanned.

The emissions were measured using a computerized EMI receiver complying to CISPR 16 requirements. The specification limits and applicable correction factors are loaded to the receiver via a 3.5" floppy disk.

In the frequency range 9 kHz-30MHz, the loop antenna was rotated on its vertical axis. The antenna height (center of loop) was 1 meter at a distance of 10 meters.

The E.U.T. was operated at the frequency of kHz. This frequency was measured using a peak detector.

7.3 Measured Data

JUDGEMENT: Passed

The EUT was tested and it met the requirements of the FCC Part 15, Subpart C, specification.

No signals were detected in the frequency range of 9 kHz - 30 MHz.

TEST PERSONNEL:

Tester Signature: for/_____ Date: 27.12.10

Typed/Printed Name: A. Moses



7.4 Test Instrumentation Used, Radiated Measurements

Instrument	Manufacturer	Model	Serial Number	Calibration	Period
EMI Receiver	НР	85422E	3906A00276	November 10, 2009	1 year
RF Section	НР	85420E	3705A00248	November 10, 2009	1 year
Active Loop Antenna	EMCO	6502	9506-2950	October 19, 2010	1 year
Antenna Mast	ARA	AAM-4A	1001	N/A	N/A
Turntable	ARA	ART-1001/4	1001	N/A	N/A
Mast & Table Controller	ARA	ACU-2/5	1001	N/A	N/A

7.5 Field Strength Calculation

The field strength is calculated directly by the EMI Receiver software, and a "Correction Factors" data disk, using the following equation:

$$FS = RA + AF + CF$$

FS: Field Strength [dB\u00e4v/m]

RA: Receiver Amplitude [dBµv]

AF: Receiving Antenna Correction Factor [dB/m]

CF: Cable Attenuation Factor [dB]

No external pre-amplifiers are used.



8. Radiated Emission 30 – 4340 MHz

8.1 Test Specification

30 - 4340 MHz, F.C.C., Part 15, Subpart C

8.2 Test Procedure

The E.U.T. operation mode and test set-up are as described in Section 3. See Section 3.1 Justification of the System Test Configuration concerning the E.U.T. orientation for this test.

A preliminary measurement to characterize the E.U.T was performed inside the shielded room at a distance of 3 meters, using peak detection mode and broadband antennas. The preliminary measurements produced a list of the highest emissions. The E.U.T was then transferred to the open site, and placed on a remote-controlled turntable. The E.U.T was placed on a non-metallic table, 0.8 meters above the ground. The configuration tested is shown in Figure 1. The signals from the list of the highest emissions were verified and the list was updated accordingly.

The levels of the emissions within the frequency ranges of the restricted bands (Section 15.205 of FCC Part 15) were compared to the limits of the table in Section 15.209 (a), General Requirements.

The emissions were measured using a computerized EMI receiver complying to CISPR 16 requirements. The specification limits and applicable correction factors are loaded to the receiver via a 3.5" floppy disk.

In the frequency range 2.9 - 4.340 GHz, a spectrum analyzer including a low noise amplifier was used. The test distance was 3 meters. During peak measurements, the I.F. bandwidth was 1 MHz, and video bandwidth 3 MHz. During average measurements, the I.F. bandwidth was 1 MHz and video bandwidth was 100 Hz.

The readings were maximized by adjusting the antenna height between 1-4 meters, the turntable azimuth between 0-360°, and the antenna polarization. Verification of the E.U.T emissions was based on the following methods: turning the E.U.T on and off; using a frequency span less than 10 MHz; observation of the signal level during turntable rotation. (Background noise is not affected by the rotation of the E.U.T.)

The emissions were measured at a distance of 3 meters.



8.3 Test Data

JUDGEMENT: Passed by 16.8 dB

The EUT met the requirements of the F.C.C. Part 15, Subpart C, specification.

The margin between the emission level and the specification limit was 16.79 dB in the worst case at the frequency of 2169.60 MHz, vertical polarization.

TEST PERSONNEL:

Tester Signature: For/_____ Date: 27.12.10

Typed/Printed Name: A. Moses



Radiated Emission

E.U.T Description Ankle Bracelet Type TRXS-840-2

Serial Number: 41400

Specification: FCC Part 15, Subpart C

Antenna Polarization: Horizontal/Vertical Frequency range: 30 MHz to 4340 MHz

Antenna: 3 meters distance Detectors: Peak

Frequency (MHz)	Peak Reading (dBµV/m)	Avg Factor (dB)	Avg Result (dBµV/m)	Antenna Polarity (H/V)	Avg. Specification (dBµV/m)	Margin (dB)
867.84	58.11	-20.44	37.67	v	60.83	-23.16
1301.78	56.00	-20.44	35.56	v	54.00	-18.44
2169.60	64.48	-20.44	44.04	V	60.83	-16.79

Figure 11. Radiated Emission. Antenna Polarization: VERTICAL./HORIZONTAL Detectors: Peak

Notes:

- 1. Margin refers to the test results obtained minus specified requirement; thus a positive number indicates failure, and a negative result indicates that the product passes the test.
- 2. "Peak Reading." ($dB\mu V/m$) included the "Correction Factors".
- 3. "Correction Factors" (dB) = Test Antenna Correction Factor(dB) + Cable Loss.
- 4. "Average Result" $(dB\mu V/m) = Peak Reading (dB\mu V/m) + Average Factor (dB)$



8.4 Test Instrumentation Used, Radiated Measurements

Instrument	Manufacturer	Model	Serial Number	Calibration	Period
EMI Receiver	НР	85422E	3906A00276	November 10, 2009	1 year
RF Section	HP	85420E	3705A00248	November 10, 2009	1 year
Low Noise Amplifier	DBS MICROWAVE	LNA-DBS- 0411N313	013	January 13, 2010	1 Year
Spectrum Analyzer	HP	8592L	3826A01204	March 14, 2010	1 Year
Antenna Bioconical	ARA	BCD 235/B	1041	August 1, 2010	1 year
Antenna Log Periodic	ARA	LPD-2010/A	1038	March 24, 2010	1 year
Antenna-Log Periodic	A.H.System	SAS-200/511	253	January 29, 2009	2 year
Antenna Mast	ARA	AAM-4A	1001	N/A	N/A
Turntable	ARA	ART-1001/4	1001	N/A	N/A
Mast & Table Controller	ARA	ACU-2/5	1001	N/A	N/A
Printer	HP	LaserJet 2200	JPKGC19982	N/A	N/A



9. Bandwidth

9.1 Test procedure

The transmitter unit operated with normal modulation. The spectrum analyzer was set to 30 kHz resolution BW and center frequency of the transmitter fundamental. The spectrum bandwidth of the transmitter unit was measured and recorded. The BW was measured at 20 dBc points.

The EUT was set up as shown in Figure 1, and its proper operation was checked. The transmitter occupied bandwidth was measured with the EMI receiver as frequency delta between reference points on the modulation envelope.

hp

ACTV DET: PEAK MEAS DET: PEAK QP AVG MKR₄ -117.5 kHz .77 dB

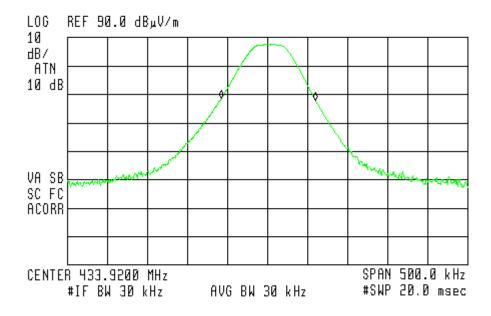


Figure 12



9.2 Results table

E.U.T Description: Ankle Bracelet

Model: TRXS-840-2 Serial Number: 41400

Specification: F.C.C. Part 15, Subpart C: (15.231(c))

Bandwidth	Specification	Margin
Reading		
kHz)	(kHz)	(kHz)
117.5	1084.8	-967.3

Figure 13 Bandwidth

JUDGEMENT: Passed by 967.3 kHz

TEST PERSONNEL:

Tester Signature: For/______ Date: 27.12.10

Typed/Printed Name: A. Moses

(1) 0.25% of the E.U.T. fundamental frequency, Section 15.231(c).



9.3 Test Equipment Used.

Bandwidth

Instrument	Manufacturer	Model	Serial Number	Calibration	Period
EMI Receiver	НР	85422E	3906A00276	November 10, 2009	1 year
RF Section	НР	85420E	3705A00248	November 10, 2009	1 year
Antenna Log Periodic	ARA	LPD-2010/A	1038	March 24, 2010	1 year
Antenna Mast	ARA	AAM-4A	1001	N/A	N/A
Turntable	ARA	ART-1001/4	1001	N/A	N/A
Mast & Table Controller	ARA	ACU-2/5	1001	N/A	N/A
Printer	НР	LaserJet 2200	JPKGC19982	N/A	N/A

Figure 14 Test Equipment Used



10. 11. APPENDIX A - CORRECTION FACTORS

10.1 Correction factors for

CABLE

from EMI receiver to test antenna at 3 meter range.

FREQUENCY	CORRECTION FACTOR
(MHz)	(dB)
10.0	0.3
20.0	0.6
30.0	0.8
40.0	0.9
50.0	1.1
60.0	1.2
70.0	1.3
80.0	1.4
90.0	1.6
100.0	1.7
150.0	2.0
200.0	2.3
250.0	2.7
300.0	3.1
350.0	3.4
400.0	3.7
450.0	4.0
500.0	4.3
600.0	4.7
700.0	5.3
800.0	5.9
900.0	6.3
1000.0	6.7

FREQUENCY (MHz)	CORRECTION FACTOR (dB)
1200.0 1400.0 1600.0 1800.0 2000.0 2300.0 2600.0	7.3 7.8 8.4 9.1 9.9 11.2
2900.0	13.0

- 1. The cable type is RG-214.
- 2. The overall length of the cable is 27 meters.
- 3. The above data is located in file 27MO3MO.CBL on the disk marked "Radiated Emission Tests EMI Receiver".



10.2 Correction factors for

from EMI receiver to test antenna

at 3 meter range.

FREQUENCY	CORRECTION FACTOR
(GHz)	(dB)
1.0	1.2
2.0	1.6
3.0	2.0
4.0	2.4
5.0	3.0
6.0	3.4
7.0	3.8
8.0	4.2
9.0	4.6
10.0	5.0
12.0	5.8

- 1. The cable type is RG-8.
- 2. The overall length of the cable is 10 meters.



10.3 Correction factors for

from spectrum analyzer to test antenna above 2.9 GHz

FREQUENCY	CORRECTION FACTOR	FREQUENCY	CORRECTION FACTOR
(GHz)	(dB)	(GHz)	(dB)
1.0	1.9	14.0	9.1
2.0	2.7	15.0	9.5
3.0	3.5	16.0	9.9
4.0	4.2	17.0	10.2
5.0	4.9	18.0	10.4
6.0	5.5	19.0	10.7
7.0	6.0	20.0	10.9
8.0	6.5	21.0	11.2
9.0	7.0	22.0	11.6
10.0	7.5	23.0	11.9
11.0	7.9	24.0	12.3
12.0	8.3	25.0	12.6
13.0	8.7	26.0	13.0

- 1. The cable type is SUCOFLEX 104 E manufactured by SUHNER.
- 2. The cable is used for measurements above 2.9 GHz.
- 3. The overall length of the cable is 10 meters.



10.4 Correction factors for LOG PERIODIC ANTENNA Type LPD 2010/A at 3 and 10 meter ranges.

Distance of 3 meters

FREQUENCY AFE (MHz) (dB/m)200.0 9.1 250.0 10.2 300.0 12.5 400.0 15.4 500.0 16.1 600.0 19.2 700.0 19.4 800.0 19.9 900.0 21.2 1000.0 23.5

Distance of 10 meters

FREQUENCY	AFE
(MHz)	(dB/m)
200.0	9.0
250.0	10.1
300.0	11.8
400.0	15.3
500.0	15.6
600.0	18.7
700.0	19.1
800.0	20.2
900.0	21.1
1000.0	23.2

- 1. Antenna serial number is 1038.
- 2. The above lists are located in file number 38M3O.ANT for a 3 meter range, and file number 38M100.ANT for a 10 meter range.
- 3. The files mentioned above are located on the disk marked "Radiated Emission Test EMI Receiver".



10.5 Correction factors for

Type SAS-200/511 at 3 meter range.

FREQUENCY	ANTENNA
TREQUENCT	FACTOR
(GHz)	(dB)
1.0	24.9
1.5	27.8
2.0	29.9
2.5	31.2
3.0	32.8
3.5	33.6
4.0	34.3
4.5	35.2
5.0	36.2
5.5	36.7
6.0	37.2
6.5	38.1

ANTENNA
FACTOR
(dB)
38.6
39.2
39.9
40.4
40.8
41.1
41.7
42.4
42.5
43.1
43.4
44.4
44.6

- 1. Antenna serial number is 253.
- 2. The above lists are located in file number SAS3M0.ANT for a 3 meter range.
- 3. The files mentioned above are located on the disk marked "Antenna Factors".



10.6 Correction factors for

BICONICAL ANTENNA Type BCD-235/B, at 3 meter range

EDEOLIENOV	A ===
FREQUENCY	AFE
(MHz)	(dB/m)
20.0	19.4
30.0	14.8
40.0	11.9
50.0	10.2
60.0	9.1
70.0	8.5
80.0	8.9
90.0	9.6
100.0	10.3
110.0	11.0
120.0	11.5
130.0	11.7
140.0	12.1
150.0	12.6
160.0	12.8
170.0	13.0
180.0	13.5
190.0	14.0
200.0	14.8
210.0	15.3
220.0	15.8
230.0	16.2
240.0	16.6
250.0	17.6
260.0	18.2
270.0	18.4
280.0	18.7
290.0	19.2
300.0	19.9
310	20.7
320	21.9
330	23.4
340	25.1
350	27.0

- 1. Antenna serial number is 1041.
- 2. The above list is located in file 19BC10M1.ANT on the disk marked "Radiated Emissions Tests EMI Receiver".



10.7 Correction factors for ACTIVE LOOP ANTENNA Model 6502 S/N 9506-2950

	Magnetic	Electric
FREQUENCY	Antenna	Antenna
	Factor	Factor
(MHz)	(dB)	(dB)
.009	-35.1	16.4
.010	-35.7	15.8
.020	-38.5	13.0
.050	-39.6	11.9
.075	-39.8	11.8
.100	-40.0	11.6
.150	-40.0	11.5
.250	-40.0	11.6
.500	-40.0	11.5
.750	-40.1	11.5
1.000	-39.9	11.7
2.000	-39.5	12.0
3.000	-39.4	12.1
4.000	-39.7	11.9
5.000	-39.7	11.8
10.000	40.2	11.3
15.000	-40.7	10.8
20.000	-40.5	11.0
25.000	-41.3	10.2
30.000	42.3	9.2