FCC PART 15, SUBPART B and C
TEST REPORT

for

SENSOR MODULE

MODEL: XSM-01

Prepared for

ONSITE PRO
28896 MOUNTAIN VIEW
TRABUCO CANYON, CA 92679

Prepared by:_____

EUGENE ADAMS

Approved by:_____

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DATE: JANUARY 2, 2009

	REPORT BODY	APPENDICES					TOTAL
		A	***B***	***C***	***D***	***E***	
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1	Conducted Emissions Test Setup
2	Plot Map And Layout of Radiated Test Site – 3 Meters

GENERAL REPORT SUMMARY

This electromagnetic emission test report is generated by Compatible Electronics Inc., which is an independent testing and consulting firm. The test report is based on testing performed by Compatible Electronics personnel according to the measurement procedures described in the test specifications given below and in the "Test Procedures" section of this report.

The measurement data and conclusions appearing herein relate only to the sample tested and this report may not be reproduced without the written permission of Compatible Electronics, unless done so in full.

This report must not be used to claim product endorsement by NVLAP, NIST or any other agency of the U.S. Government.

Device Tested:	Sensor Module P/N: XSM-01 S/N: N/A
Product Description:	See Expository Statement.
Modifications:	The EUT was not modified in order to meet the specifications.
Manufacturer:	Onsite PRO 28896 Mountain View Trabuco Canyon, CA 92679
Test Dates:	November 15 and 24, 2008 and December 2 and 3, 2008
Test Specifications:	EMI requirements CFR Title 47, Part 15 Subpart B; and Subpart C, Sections 15.205, 15.209 and 15.249
Test Procedure:	ANSI C63.4
Test Deviations:	The test procedure was not deviated from during the testing.

SUMMARY OF TEST RESULTS

TEST	DESCRIPTION	RESULTS
1	Conducted RF Emissions, 150 kHz – 30 MHz	Complies with the **Class B** limits of CFR Title 47, Part 15, Subpart B; and Subpart C section 15.207.
2	Radiated RF Emissions, 10 kHz – 9150 MHz (Transmitter Portion)	Complies with the limits of CFR Title 47, Part 15, Subpart C, section 15.205, 15.209, and 15.249.
3	Radiated RF Emissions, 10 kHz – 9150 MHz (Digital Portion)	Complies with the **Class B** limits of CFR Title 47, Part 15, Subpart B.
4	Receiver Portion, 30MHz – 9150 MHz	Complies with the **Class B** limits of CFR Title 47, Part 15, Subpart B.

1. PURPOSE

This document is a qualification test report based on the Electromagnetic Interference (EMI) tests performed on the Sensor Module, Model: XSM-01. The EMI measurements were performed according to the measurement procedure described in ANSI C63.4. The tests were performed in order to determine whether the electromagnetic emissions from the equipment under test, referred to as EUT hereafter, are within the **Class B** specification limits defined by CFR Title 47, Part 15, Subpart B for the digital portion; and the limits defined in Subpart C, sections 15.205, 15.207, 15.209, and 15.249 for the transmitter portion.

2. ADMINISTRATIVE DATA

2.1 Location of Testing

The EMI tests described herein were performed at the test facility of Compatible Electronics, 19121 El Toro Rd, Silverado, CA 92676.

2.2 Traceability Statement

The calibration certificates of all test equipment used during the test are on file at the location of the test. The calibration is traceable to the National Institute of Standards and Technology (NIST)**.**

2.3 Cognizant Personnel

Onsite PRO

Scott Walter Owner

Compatible Electronics, Inc.

Eugene Adams Test Technician

2.4 Date Test Sample was Received

The test sample was received on November 21, 2008.

2.5 Disposition of the Test Sample

The sample has not yet been returned to Onsite PRO.

2.6 Abbreviations and Acronyms

The following abbreviations and acronyms may be used in this document.

RF	Radio Frequency
EMI	Electromagnetic Interference
EUT	Equipment Under Test
P/N	Part Number
S/N	Serial Number
HP	Hewlett Packard
ITE	Information Technology Equipment
CML	Corrected Meter Limit
LISN	Line Impedance Stabilization Network

3. APPLICABLE DOCUMENTS

The following documents are referenced or used in the preparation of this EMI Test Report.

SPEC	TITLE
CFR Title 47, Part 15	FCC Rules – Radio frequency devices (including digital devices)
ANSI C63.4 2003	American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz

4. DESCRIPTION OF TEST CONFIGURATION

4.1 Description Of Test Configuration - EMI

Setup and operation of the equipment under test.

Specifics of the EUT and Peripherals Tested

The Sensor Module, Model: XSM-01 (EUT) was connected to the water sensor. The EUT's antenna is a PCB style antenna and is on the PCB itself and uses FSK modulation. The EUT was tested in three orthogonal axis. The EUT was continuously transmitting and/or receiving.

The final radiated data was taken in the both transmitting and receiving modes. Please see Appendix E for the data sheets.

4.1.1 Cable Construction and Termination

Cable 1 This is a 1-meter unshielded cable connecting the EUT to the water sensor. The cable has a custom connector at each end.

5. LISTS OF EUT, ACCESSORIES AND TEST EQUIPMENT

5.1 EUT and Accessory List

EQUIPMENT	MANUFACTURER	MODEL NUMBER	SERIALNUMBER	FCC ID
SENSOR MODULE (EUT)	ONSITE PRO	XSM-01	N/A	**WW8FS-SENSOR**
WATER SENSOR	ONSITE PRO	NONE	NONE	**NONE**

5.2 EMI Test Equipment

EQUIPMENT TYPE	MANU-FACTURER	MODEL NUMBER	SERIAL NUMBER	CALIBRATION DATE	CALIBRATION DUE DATE
GENERAL TEST EQUIPMENT USED FOR ALL RF EMISSIONS TESTS					
Analyzer Spectrum - Quasi-Peak Adapter	Hewlett Packard	85650A	2811A01081	5/31/08	5/31/09
Analyzer Spectrum – Display Section	Hewlett Packard	85662A	2848A18214	5/31/08	5/31/09
Analyzer Spectrum – RF Section	Hewlett Packard	8566B	2747A04875	5/31/08	5/31/09
RF RADIATED EMISSIONS TEST EQUIPMENT					
Radiated Emissions Data Capture Program	Compatible Electronics	2.0	N/A	N/A	N/A
Antenna, Biconical	Com Power	AB-900	15228	1/24/08	1/24/09
Antenna, Log Periodic	Com Power	AL-100	16016	1/11/08	1/11/09
Preamplifier	Com Power	PA-103	161206	11/28/08	11/28/09
Loop Antenna	Com Power	AL-130	17089	8/12/08	8/12/09
Antenna ,Horn	Com-Power	AH-118	1319	8/08/08	8/08/10
Preamplifier	Com Power	PA-122	181923	1/23/08	1/23/09
Antenna Mast	Com Power	AM-400	N/A	N/A	N/A
RF CONDUCTED EMISSIONS TEST EQUIPMENT					
LISN EUT Side	Com Power	LI-115	241043	8/06/08	8/06/09
LISN Accessory Side	Com Power	LI-215	12073	8/06/08	8/06/09
Transient Limiter	Com Power	Hz-560	N/A	2/06/08	2/06/09

6. TEST SITE DESCRIPTION

6.1 Test Facility Description

Please refer to section 2.1 and 7.1 of this report for EMI test location.

6.2 EUT Mounting, Bonding and Grounding

The EUT was mounted on a 1.0 by 1.5 meter non-conductive table 0.8 meters above the ground plane.

The EUT was not grounded.

7. TEST PROCEDURES

The following sections describe the test methods and the specifications for the tests. Test results are also included in this section.

7.1 RF Emissions

7.1.1 Conducted Emissions Test

The spectrum analyzer was used as a measuring meter. The data was collected with the spectrum analyzer in the peak detect mode with the "Max Hold" feature activated. The quasi-peak was used only where indicated in the data sheets. A transient limiter was used for the protection of the spectrum analyzer input stage, and the offset was adjusted accordingly to read the actual data measured. The LISN output was measured using the spectrum analyzer. The output of the second LISN was terminated by a 50 ohm termination. The effective measurement bandwidth used for this test was 9 kHz.

Please see section 6.2 of this report for mounting, bonding and grounding of the EUT. The EUT was powered through the LISN, which was bonded to the ground plane. The LISN power was filtered and the filter was bonded to the ground plane. The EUT was set up with the minimum distances from any conductive surfaces as specified in ANSI C63.4. The excess power cord was wrapped in a figure eight pattern to form a bundle not exceeding 0.4 meters in length.

The conducted emissions from the EUT were maximized for operating mode as well as cable placement. The final data was collected under program control by the Compatible Electronics software in several overlapping sweeps by running the spectrum analyzer at a minimum scan rate of 10 seconds per octave. The final qualification data is located in Appendix E.

Test Results:

The EUT complies with the **Class B** limits of CFR Title 47, Part 15, Subpart B; and CFR Title 47, Part 15, Subpart C, section 15.207.

7.1.2 Radiated Emissions (Spurious and Harmonics) Test

The spectrum analyzer was used as a measuring meter. A preamplifier was used to increase the sensitivity of the instrument. The spectrum analyzer was used in the peak detect mode with the "Max Hold" feature activated. In this mode, the spectrum analyzer records the highest measured reading over all the sweeps. The quasi-peak reading was taken only for those readings which are marked accordingly on the data sheets. The following antennas and measurement bandwidths were used as specified in the following table.

The frequencies above 1 GHz were averaged manually by narrowing the video filter down to 10 Hz and putting the sweep time on AUTO on the spectrum analyzer to keep the amplitude reading calibrated.

The measurement bandwidths and transducers used for the radiated emissions test were:

FREQUENCY RANGE	EFFECTIVE MEASUREMENT BANDWIDTH	TRANSDUCER
9 kHz to 150 kHz	200 Hz	Active Loop Antenna
150 kHz to 30 MHz	9 kHz	Active Loop Antenna
30 MHz to 300 MHz	120 kHz	Biconical Antenna
300 MHz to 1 GHz	120 kHz	Log Periodic Antenna
1 GHz to 10 GHz	1 MHz	Horn Antenna

The open field test site of Compatible Electronics, Inc. was used for radiated emission testing. This test site is set up according to ANSI C63.4. Please see section 6.2 of this report for mounting, bonding and grounding of the EUT. The turntable supporting the EUT is remote controlled using a motor. The turntable permits EUT rotation of 360 degrees in order to maximize emissions. Also, the antenna mast allows height variation of the antenna from 1 meter to 4 meters. Data was collected in the worst case (highest emission) configuration of the EUT. At each reading, the EUT was rotated 360 degrees and the antenna height was varied from 1 to 4 meters (for E field radiated field strength). The gunsight method was used when measuring with the horn antenna in order to ensure accurate results. The loop antenna was also rotated in the horizontal and vertical axis in order to ensure accurate results.

7.1.3 Radiated Emissions (Spurious and Harmonics) Test (Continued)

The presence of ambient signals was verified by turning the EUT off. In case an ambient signal was detected, the measurement bandwidth was reduced temporarily and verification was made that an additional adjacent peak did not exist. This ensures that the ambient signal does not hide any emissions from the EUT. The EUT was tested at a 3 meter test distance to obtain the final test data. The final qualification data sheets are located in Appendix E.

Test Results:

The EUT complies with the **Class B** limits of CFR Title 47, Part 15, Subpart B; and CFR Title 47, Part 15, Subpart C, sections 15.205, 15.209, and 15.249.

8. CONCLUSIONS

The Sensor Module, Model: XSM-01 meets all of the **Class B** specification limits defined in CFR Title 47, Part 15, Subpart B for the digital and receiver portions; and the limits defined in Subpart C, sections 15.205, 15.207, 15.209, and 15.249 for the transmitter portion.

APPENDIX A

LABORATORY RECOGNITIONS

LABORATORY ACCREDITATIONS AND RECOGNITIONS

NVLAP CODES 200063-0, 200528-0, 200527-0

For US, Canada, Australia/New Zealand, Taiwan and the European Union, Compatible Electronics is currently accredited by NVLAP to ISO/IEC 17025 an ISO 9002 equivalent. Please follow the link to the NIST site for each of our facilities NVLAP certificate and scope of accreditation.

Silverado/Lake Forest Division: http://ts.nist.gov/ts/htdocs/210/214/scopes/2005270.htm
Brea Division: http://ts.nist.gov/ts/htdocs/210/214/scopes/2005280.htm
Agoura Division: http://ts.nist.gov/ts/htdocs/210/214/scopes/2000630.htm

Compatible Electronics has been accredited by ANSI and appointed by the FCC to serve as a Telecommunications Certification Body (TCB). Compatible Electronics ANSI TCB listing can be found at: http://www.ansi.org/public/ca/ansi_cp.html

Compatible Electronics has been nominated as a Conformity Assessment Body (CAB) for EMC under the US/EU Mutual Recognition Agreement (MRA). Compatible Electronics NIST US/EU CAB listing can be found at: http://ts.nist.gov/ts/htdocs/210/gsig/emc-cabs-mar02.pdf

Compatible Electronics has been nominated as a Conformity Assessment Body (CAB) for Taiwan/BSMI under the US/APEC (Asia-Pacific Economic Cooperation) Mutual Recognition Agreement (MRA). Compatible Electronics NIST US/APEC CAB listing can be found at: http://ts.nist.gov/ts/htdocs/210/gsig/apec/bsmi-cabs-may02.pdf

World Wide Market Access with Nemko

Compatible Electronics has been validated by NEMKO against ISO/IEC 17025 under the NEMKO EMC Laboratory Authorization (ELA) program to all EN standards required by the European Union (EU) EMC Directive 89/336/EEC. Please follow the link to the Compatible Electronics' web site for each of our facilities NEMKO ELA certificate and scope of accreditation. http://www.celectronics.com/certs.htm

We are also certified/listed for IT products by the following country/agency:

Compatible Electronics VCCI listing can be found at:
http://www.vcci.or.jp/vcci_e/member/tekigo/setsubi_index_id.html

Just type "Compatible Electronics" into the Keyword search box.

Compatible Electronics FCC listing can be found at:
https://gullfoss2.fcc.gov/prod/oet/index_ie.html

Just type "Compatible Electronics" into the Test Firms search box.

Industry Canada Industrie Canada

Compatible Electronics IC listing can be found at:
http://spectrum.ic.gc.ca/~cert/labs/oats_lab_c_e.html

APPENDIX B

MODIFICATIONS TO THE EUT

MODIFICATIONS TO THE EUT

No modifications were made to the EUT.

APPENDIX C

ADDITIONAL MODELS COVERED UNDER THIS REPORT

ADDITIONAL MODELS COVERED UNDER THIS REPORT

USED FOR THE PRIMARY TEST

Sensor Module
Model: XSM-01
S/N: N/A

There were no additional models covered under this report.

APPENDIX D

DIAGRAMS, CHARTS, AND PHOTOS

FIGURE 1: CONDUCTED EMISSIONS TEST SETUP

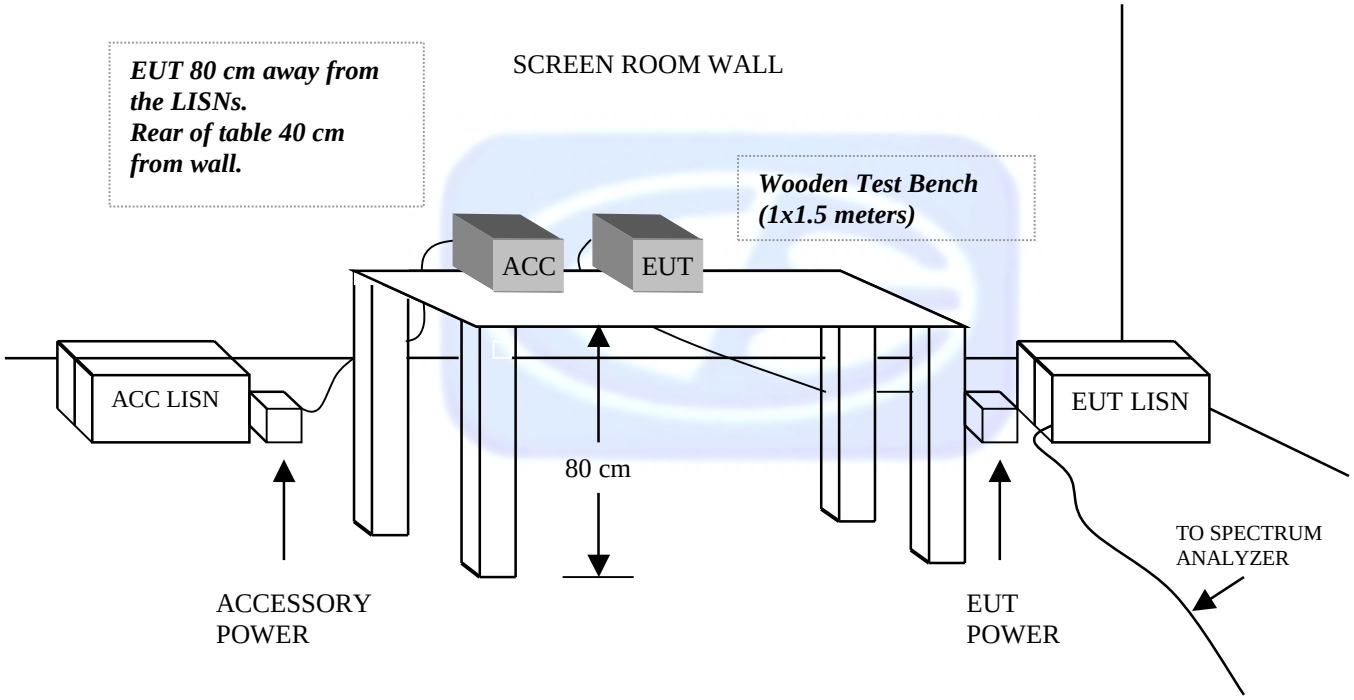
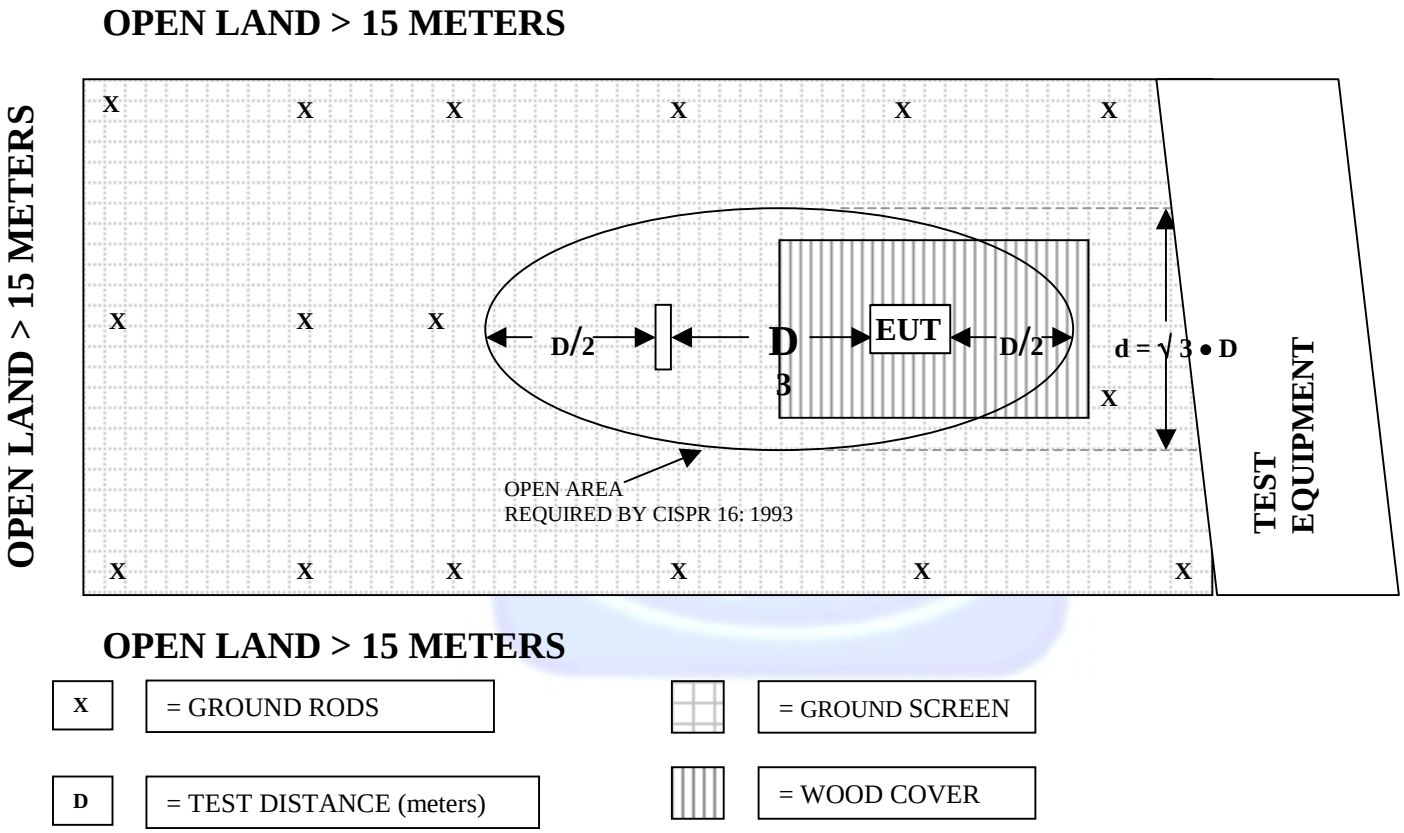


FIGURE 2: PLOT MAP AND LAYOUT OF RADIATED TEST SITE – 3 METERS



COM-POWER AB-900

LAB J - BICONICAL ANTENNA

S/N: 15228

CALIBRATION DATE: JANUARY 24, 2008

FREQUENCY (MHz)	FACTOR (dB)	FREQUENCY (MHz)	FACTOR (dB)
30.0	10.1	120.0	12.9
35.0	10.2	125.0	13.1
40.0	12.7	140.0	12.4
45.0	13.0	150.0	11.9
50.0	12.7	160.0	13.3
60.0	11.8	175.0	14.6
70.0	9.0	180.0	15.5
80.0	6.4	200.0	16.9-
90.0	8.2	250.0	15.6
100.0	10.8	300.0	19.1

COM-POWER AL-100

LAB J - LOG PERIODIC ANTENNA

S/N: 16016

CALIBRATION DATE: JANUARY 11, 2008

FREQUENCY (MHz)	FACTOR (dB)	FREQUENCY (MHz)	FACTOR (dB)
300	13.4	350	15.0
400	14.9	450	14.9
500	16.8	550	16.5
600	17.9	650	17.8
700	19.4	750	22.6
800	23.2	850	22.9
900	22.6	950	24.0
1000	23.8	-	-

COM-POWER AH-118

LAB J - HORN ANTENNA

S/N: 1319

CALIBRATION DATE: AUGUST 08, 2008

FREQUENCY (MHz)	FACTOR (dB)	FREQUENCY (MHz)	FACTOR (dB)
1000	22.8	10000	35.9
1500	24.2	10500	37.7
2000	26.8	11000	37.0
2500	26.1	11500	39.9
3000	28.1	12000	38.1
3500	27.7	12500	38.4
4000	28.2	13000	37.5
4500	29.4	13500	39. 0
5000	30.4	14000	40.3
5500	31.2	14500	40.0
6000	30.7	15000	39.6
6500	32.4	15500	38.1
7000	33.8	16000	37.3
7500	35.1	16500	38.4
8000	35.4	17000	39.4
8500	35.1	17500	41.4
9000	37.1	18000	43.1
9500	35.6		

COM-POWER PA-103

LAB J - PREAMPLIFIER

S/N: 161206

CALIBRATION DATE: NOVEMBER 26, 2008

FREQUENCY (MHz)	FACTOR (dB)	FREQUENCY (MHz)	FACTOR (dB)
30	29.9	300	30.5
40	30.5	350	30.0
50	30.5	400	30.3
60	30.3	450	30.2
70	29.5	500	29.5
80	27.0	550	29.7
90	25.0	600	29.5
100	28.0	650	29.4
125	29.2	700	28.4
150	30.0	750	28.3
175	30.5	800	26.1
200	30.5	850	29.0
225	30.6	900	28.9
250	30.3	950	30.3
275	30.3	1000	29.3

COM-POWER PA-122

LAB J – HI-FREQUENCY PREAMPLIFIER

S/N: 181923

CALIBRATION DATE: JANUARY 23, 2008

FREQUENCY (MHz)	FACTOR (dB)	FREQUENCY (MHz)	FACTOR (dB)
1000	35.9	8000	33.3
1500	35.5	8500	35.0
2000	34.9	9000	35.6
2500	35.1	9500	34.7
3000	35.0	10000	34.0
3500	34.7	11000	32.3
4000	35.4	12000	33.9
4500	34.7	13000	34.9
5000	35.0	14000	33.7
5500	34.7	15000	33.7
6000	34.4	16000	33.3
6500	34.4	17000	34.5
7500	33.9	18000	32.6

COM-POWER AL-130

LOOP ANTENNA

S/N: 17089

CALIBRATION DATE: SEPTEMBER 29, 2008

FREQUENCY (MHz)	MAGNETIC (dB/m)	ELECTRIC (dB/m)
0.009	-41.57	9.93
0.01	-42.06	9.44
0.02	-42.43	9.07
0.05	-42.50	9.00
0.07	-42.10	9.40
0.1	-42.03	9.47
0.2	-44.50	7.00
0.3	-41.93	9.57
0.5	-41.90	9.60
0.7	-41.73	9.77
1	-41.23	10.27
2	-40.90	10.60
3	-41.20	10.30
4	-41.30	10.20
5	-40.70	10.80
10	-41.10	10.40
15	-42.17	9.33
20	-42.00	9.50
25	-42.20	9.30
30	-43.10	8.40

FRONT VIEW

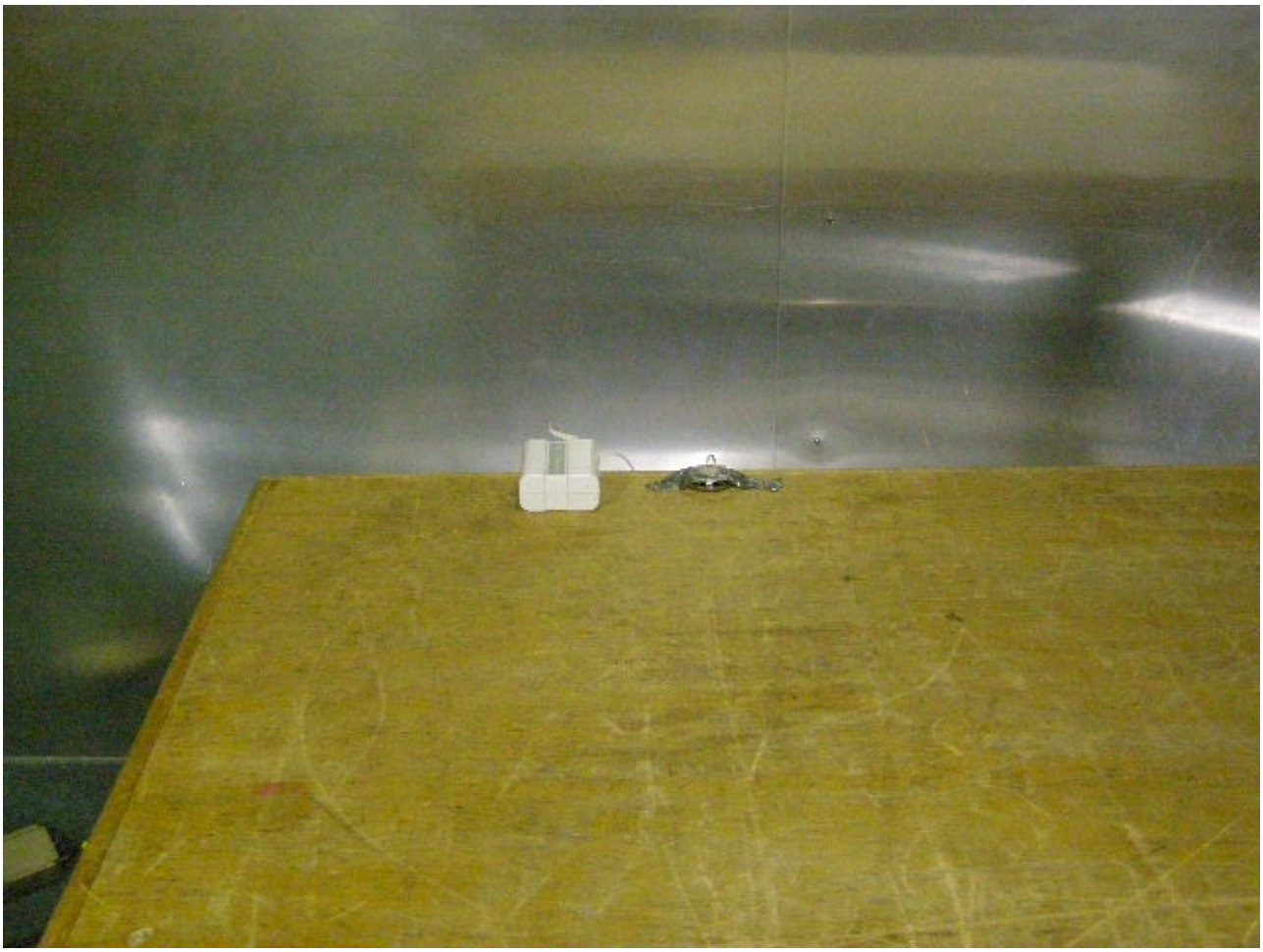
ONSITE PRO
SENSOR MODULE
MODEL: XSM-01
FCC SUBPART B AND C – RADIATED EMISSIONS

PHOTOGRAPH SHOWING THE EUT CONFIGURATION FOR MAXIMUM EMISSIONS

REAR VIEW

ONSITE PRO
SENSOR MODULE
MODEL: XSM-01
FCC SUBPART B AND C – RADIATED EMISSIONS

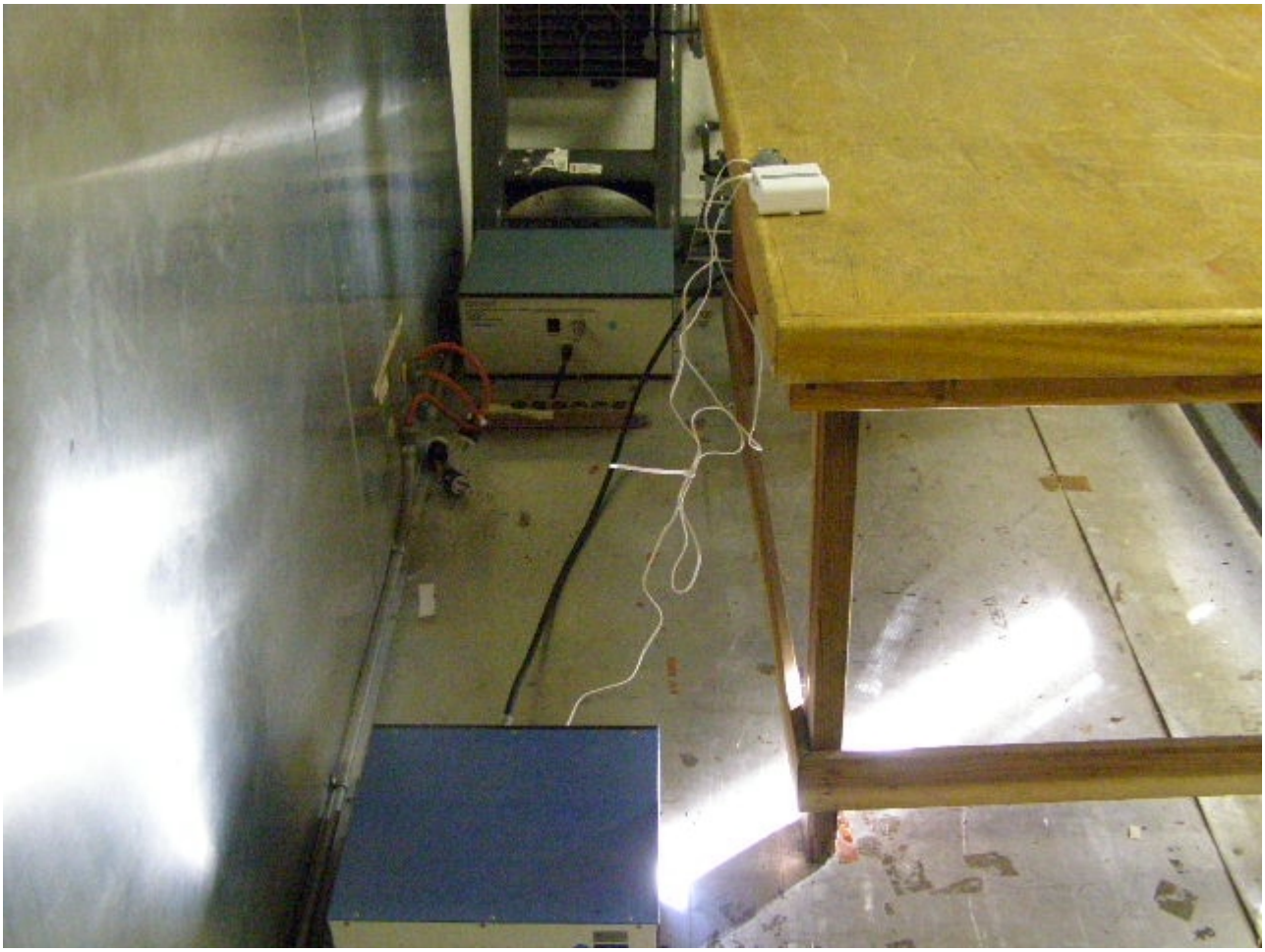
PHOTOGRAPH SHOWING THE EUT CONFIGURATION FOR MAXIMUM EMISSIONS



FRONT VIEW

ONSITE PRO
SENSOR MODULE
MODEL: XSM-01
FCC SUBPART B AND C – CONDUCTED EMISSIONS

PHOTOGRAPH SHOWING THE EUT CONFIGURATION FOR MAXIMUM EMISSIONS



REAR VIEW

ONSITE PRO
SENSOR MODULE
MODEL: XSM-01
FCC SUBPART B AND C – CONDUCTED EMISSIONS

PHOTOGRAPH SHOWING THE EUT CONFIGURATION FOR MAXIMUM EMISSIONS

APPENDIX E

DATA SHEETS

RADIATED EMISSIONS

DATA SHEETS

Test Location : Compatible Electronics **Page** : 1/1
Customer : Scott Walter **Date** : 11/24/2008
Manufacturer : Onsite Products **Time** : 02:14:56 PM
Eut name : Sensor MOdule AC TX **Lab** : J
Model : XSM-01 **Test Distance** : 3.00 Meters
Serial # :
Specification : FCC Pt. 15 Section 15.249
Distance correction factor (20 * log(test/spec)) : 0.00
Test Mode :

Test Engineer: Eugene Adams
Transmit Mode
AC

Pol	Freq MHz	Reading dBuV	Cable loss dB	Antenna factor dB	Amplifier gain dB	Corr'd rdg = R dBuV/m	Limit = L dBuV/m	Delta R-L dB
V	40.140	51.10	1.60	12.71	31.70	33.70	40.00	-6.30
V	80.026	48.90	1.90	6.40	31.60	25.60	40.00	-14.40
V	90.033	50.80	1.90	8.21	31.60	29.31	43.50	-14.19
V	180.037	37.70	2.56	15.50	31.70	24.07	43.50	-19.43
V	109.984	42.60	2.03	11.90	31.61	24.91	43.50	-18.59
H	40.043	39.90	1.60	12.70	31.70	22.50	40.00	-17.50
H	80.003	47.90	1.90	6.40	31.60	24.60	40.00	-15.40
H	90.021	39.70	1.90	8.21	31.60	18.21	43.50	-25.29
H	100.015	44.60	1.90	10.80	31.40	25.90	43.50	-17.60
H	110.021	43.30	2.03	11.90	31.61	25.61	43.50	-17.89
H	180.028	36.70	2.56	15.50	31.70	23.07	43.50	-20.43
H	329.979	40.00	3.45	14.39	31.40	26.44	46.00	-19.56
H	915.049	81.70	6.35	23.03	30.94	80.14	94.00	-13.86
V	915.049	86.20	6.35	23.03	30.94	84.64	94.00	-9.36

Test Location : Compatible Electronics **Page** : 1/1
Customer : Scott Walter **Date** : 11/24/2008
Manufacturer : Onsite Products **Time** : 02:28:21 PM
Eut name : Sensor MOdule AC TX **Lab** : J
Model : XSM-01 **Test Distance** : 3.00 Meters
Serial # :
Specification : FCC Pt. 15 Section 15.249
Distance correction factor (20 * log(test/spec)) : 0.00
Test Mode :
Test Engineer: Eugene Adams
Transmit Mode
AC

Pol	Freq MHz	Reading dBuV	Cable loss dB	Antenna factor dB	Amplifier gain dB	Corr'd rdg = R dBuV/m	Limit = L dBuV/m	Delta R-L dB
V	1829.841	46.20	6.40	26.00	35.09	43.51	54.00	-10.49
V	2744.903	43.80	6.40	27.13	35.05	42.28	54.00	-11.72
V	3659.906	43.00	6.40	27.87	34.77	42.50	54.00	-11.50
V	4574.517	43.80	6.40	29.56	34.75	45.01	54.00	-8.99
V	5491.302	43.80	6.40	31.19	34.70	46.68	54.00	-7.32
V	6406.246	46.20	6.40	32.09	34.40	50.29	54.00	-3.71
V	7320.757	45.50	6.40	34.64	33.97	52.57	54.00	-1.43
V	7320.758	34.60	6.40	34.64	33.97	41.67	54.00	-12.33
	Above reading is an average reading.							
V	8235.406	45.30	6.40	35.26	34.11	52.84	54.00	-1.16
V	8235.403	34.13	6.40	35.26	34.11	41.67	54.00	-12.33
	Above reading is an average reading.							
V	9149.812	46.40	6.40	36.64	35.33	54.12	54.00	0.12
V	9149.812	34.50	6.40	36.64	35.33	42.22	54.00	-11.78
	Above reading is an average reading.							
H	1830.306	47.80	6.40	26.00	35.08	45.11	54.00	-8.89
H	2745.314	45.40	6.40	27.13	35.05	43.88	54.00	-10.12
H	3660.020	43.70	6.40	27.87	34.77	43.20	54.00	-10.80
H	4574.920	43.40	6.40	29.56	34.75	44.61	54.00	-9.39
H	5489.912	43.00	6.40	31.18	34.71	45.88	54.00	-8.12
H	6405.380	46.20	6.40	32.09	34.40	50.29	54.00	-3.71
H	7320.114	46.20	6.40	34.64	33.97	53.27	54.00	-0.73
H	7320.114	34.53	6.40	34.64	33.97	41.60	54.00	-12.40
	Above reading is an average reading.							
H	8235.298	45.90	6.40	35.26	34.11	53.44	54.00	-0.56
H	8235.298	34.11	6.40	35.26	34.11	41.65	54.00	-12.35
	Above reading is an average reading.							
H	9149.568	46.00	6.40	36.64	35.33	53.72	54.00	-0.28
H	9149.568	34.57	6.40	36.64	35.33	42.29	54.00	-11.71
	Above reading is an average reading.							

Test Location : Compatible Electronics
Customer : Scott Walter
Manufacturer : Onsite Products
Eut name : Sensor MOdule AC RX
Model : XSM-01
Serial # :
Specification : FCC Pt. 15 B
Page : 1/2
Date : 12/02/2008
Time : 08:28:42 AM
Lab : J
Test Distance : 3.00 Meters
Distance correction factor (20 * log(test/spec)) : 0.00
Test Mode : Test Range: 30-1000MHz
Test Engineer: Eugene Adams
Receive Mode
AC

Pol	Freq MHz	Reading dBuV	Cable loss dB	Antenna factor dB	Amplifier gain dB	Corr'd rdg = R dBuV/m	Limit = L dBuV/m	Delta R-L dB
H	79.986	46.30	1.90	6.40	31.60	23.00	40.00	-17.00
H	109.990	44.50	2.03	11.90	31.59	26.84	43.50	-16.66
H	160.033	40.20	2.62	13.30	31.60	24.52	43.50	-18.98
H	169.987	38.30	2.54	14.18	31.60	23.42	43.50	-20.08
H	189.987	40.60	2.68	16.22	31.54	27.96	43.50	-15.54
H	199.993	41.50	2.80	16.90	31.50	29.70	43.50	-13.80
H	250.047	43.80	3.20	15.60	31.50	31.10	46.00	-14.90
V	80.048	47.10	1.90	6.41	31.60	23.81	40.00	-16.19
V	109.980	43.10	2.03	11.90	31.59	25.44	43.50	-18.06
V	159.977	42.40	2.62	13.30	31.60	26.71	43.50	-16.79
V	170.022	38.10	2.54	14.18	31.60	23.22	43.50	-20.28
V	190.042	36.40	2.69	16.22	31.54	23.77	43.50	-19.73
V	200.016	38.00	2.80	16.90	31.50	26.20	43.50	-17.30
H	825.118	42.60	6.00	23.05	31.99	39.66	46.00	-6.34
H	844.943	40.80	6.00	22.93	31.60	38.13	46.00	-7.87
H	865.075	39.70	6.03	22.81	31.47	37.07	46.00	-8.93
H	895.105	42.50	6.09	22.63	31.41	39.81	46.00	-6.19
H	934.898	38.20	6.66	23.59	31.75	36.70	46.00	-9.30
H	945.068	45.50	6.82	23.87	31.85	44.34	46.00	-1.66
H	945.069Qp	43.22	6.82	23.87	31.85	42.06	46.00	-3.94
H	955.057	40.80	6.85	23.98	31.83	39.80	46.00	-6.20
H	965.111	44.60	6.75	23.94	31.68	43.60	54.00	-10.40
H	974.909	39.70	6.65	23.90	31.55	38.70	54.00	-15.30
H	984.908	41.30	6.55	23.86	31.41	40.30	54.00	-13.70
H	901.418	42.40	6.12	22.64	31.41	39.75	46.00	-6.25
V	824.901	41.20	6.00	23.05	31.99	38.25	46.00	-7.75
V	844.938	38.70	6.00	22.93	31.60	36.03	46.00	-9.97
V	865.065	37.90	6.03	22.81	31.47	35.27	46.00	-10.73
V	894.924	43.30	6.09	22.63	31.41	40.61	46.00	-5.39
V	935.077	45.50	6.67	23.59	31.75	44.00	46.00	-2.00
V	935.077Qp	42.53	6.67	23.59	31.75	41.03	46.00	-4.97
V	944.958	45.60	6.82	23.86	31.85	44.43	46.00	-1.57
V	944.959Qp	42.66	6.82	23.86	31.85	41.49	46.00	-4.51
V	954.934	42.20	6.85	23.98	31.83	41.20	46.00	-4.80
V	964.956	39.90	6.75	23.94	31.69	38.90	54.00	-15.10

Test Location : Compatible Electronics **Page** : 2/2
Customer : Scott Walter **Date** : 12/02/2008
Manufacturer : Onsite Products **Time** : 08:28:42 AM
Eut name : Sensor MOdule AC RX **Lab** : J
Model : XSM-01 **Test Distance** : 3.00 Meters
Serial # :
Specification : FCC Pt. 15 B
Distance correction factor (20 * log(test/spec)) : 0.00
Test Mode : Test Range: 30-1000MHz
Test Engineer: Eugene Adams
Receive Mode
AC

Pol	Freq MHz	Reading dBuV	Cable loss dB	Antenna factor dB	Amplifier gain dB	Corr'd rdg = R dBuV/m	Limit = L dBuV/m	Delta R-L dB
V	985.094	37.60	6.55	23.86	31.40	36.60	54.00	-17.40
V	974.950	36.10	6.65	23.90	31.55	35.10	54.00	-18.90

Test Location : Compatible Electronics **Page** : 1/1
Customer : Scott Walter **Date** : 12/02/2008
Manufacturer : Onsite Products **Time** : 11:21:57 AM
Eut name : Sensor Module **Lab** : J
Model : P/N: XSM-01 **Test Distance** : 3.00 Meters
Serial # :
Specification : FCC Pt. 15 B
Distance correction factor (20 * log(test/spec)) : 0.00
Test Mode : Test Range: 30-1000MHz
Test Engineer: Eugene Adams
Transmit Mode
Battery

Pol	Freq MHz	Reading dBuV	Cable loss dB	Antenna factor dB	Amplifier gain dB	Corr'd rdg = R dBuV/m	Limit = L dBuV/m	Delta R-L dB
V	250.016	42.30	3.20	15.60	31.50	29.60	46.00	-16.40
V	240.018	40.10	3.05	15.84	31.46	27.52	46.00	-18.48
V	120.029	39.80	2.15	12.90	31.66	23.18	43.50	-20.32
V	80.007	45.80	1.90	6.40	31.60	22.50	40.00	-17.50
V	150.054	43.50	2.70	11.91	31.60	26.51	43.50	-16.99
V	190.046	39.50	2.69	16.22	31.54	26.87	43.50	-16.63
H	190.046	35.80	2.69	16.22	31.54	23.17	43.50	-20.33
H	80.026	46.30	1.90	6.40	31.60	23.00	40.00	-17.00
H	120.031	43.20	2.15	12.90	31.66	26.58	43.50	-16.92
H	150.012	43.20	2.70	11.90	31.60	26.20	43.50	-17.30
H	240.005	36.40	3.05	15.84	31.46	23.82	46.00	-22.18
H	250.042	44.10	3.20	15.60	31.50	31.40	46.00	-14.60
H	915.049	82.83	6.35	23.03	30.94	80.14	94.00	-12.73
V	915.051	86.83	6.35	23.03	30.94	84.64	94.00	-8.73
V	935.063	42.20	6.67	23.59	31.75	40.70	46.00	-5.30
V	945.094	40.00	6.82	23.87	31.85	38.84	46.00	-7.16
V	954.976	39.50	6.85	23.98	31.83	38.50	46.00	-7.50
V	965.092	38.60	6.75	23.94	31.68	37.60	54.00	-16.40
V	975.096	35.90	6.65	23.90	31.54	34.90	54.00	-19.10
V	984.952	37.40	6.55	23.86	31.41	36.40	54.00	-17.60
H	935.110	41.00	6.67	23.59	31.75	39.50	46.00	-6.50
H	944.939	41.10	6.82	23.86	31.85	39.93	46.00	-6.07
H	955.074	38.80	6.85	23.98	31.83	37.80	46.00	-8.20
H	964.956	37.10	6.75	23.94	31.69	36.10	54.00	-17.90
H	974.958	35.10	6.65	23.90	31.55	34.10	54.00	-19.90
H	984.944	36.70	6.55	23.86	31.41	35.70	54.00	-18.30

Test Location : Compatible Electronics **Page** : 1/1
Customer : Scott Walter **Date** : 12/15/2008
Manufacturer : Floodstop **Time** : 10:18:20 AM
Eut name : Sensor MOdule **Lab** : J
Model : XSM-01 **Test Distance** : 3.00 Meters
Serial # :
Specification : FCC Pt. 15 Section 15.249
Distance correction factor (20 * log(test/spec)) : 0.00
Test Mode :
Test Engineer: Eugene Adams
Transmit Mode
Battery

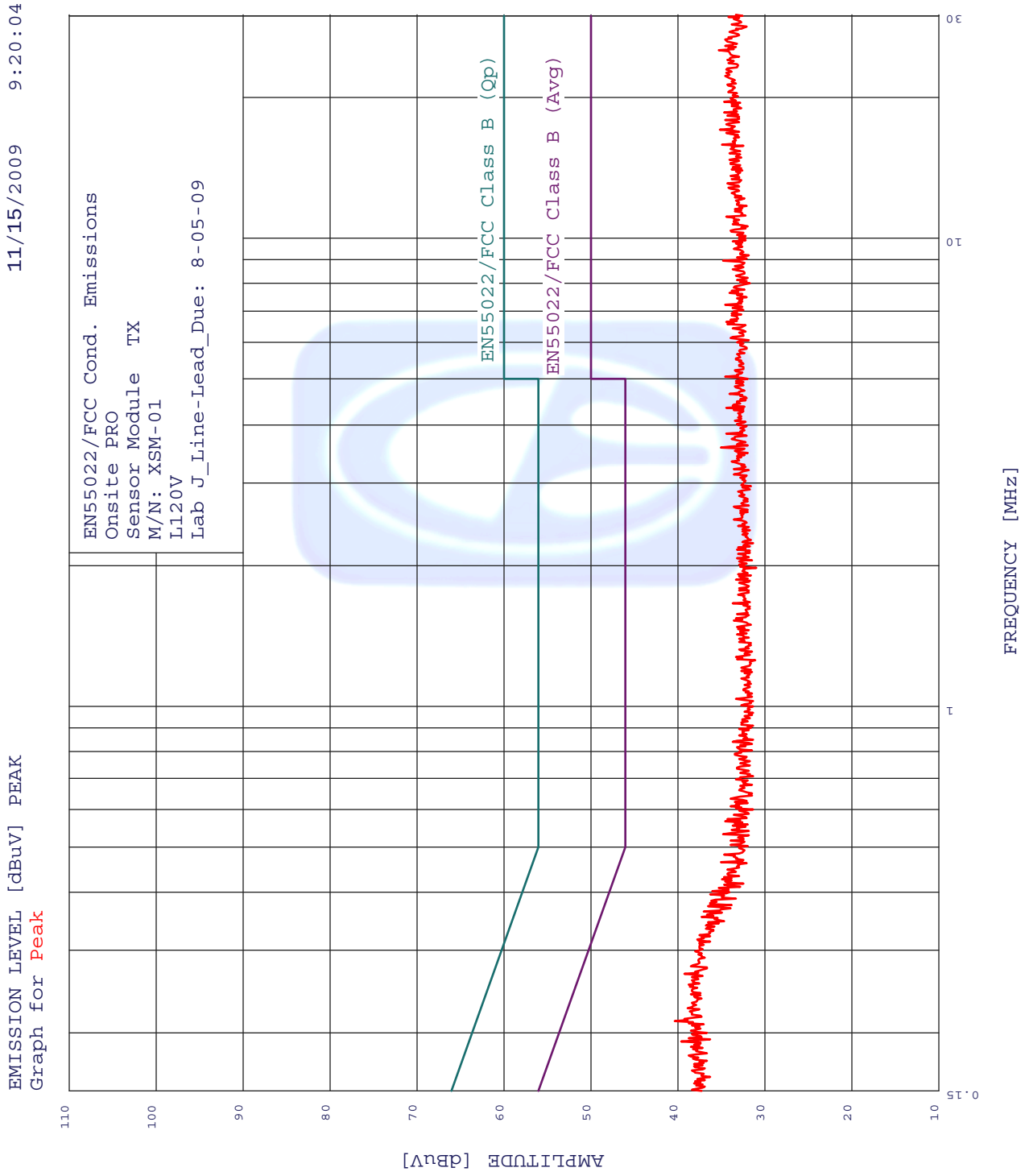
Pol	Freq MHz	Reading dBuV	Cable loss dB	Antenna factor dB	Amplifier gain dB	Corr'd rdg = R dBuV/m	Limit = L dBuV/m	Delta R-L dB
H	1829.977	43.80	2.67	26.00	35.09	37.38	54.00	-16.62
H	2745.016	42.70	3.11	27.13	35.05	37.88	54.00	-16.12
H	3659.966	43.20	3.80	27.87	34.77	40.10	54.00	-13.90
V	1830.032	43.90	2.67	26.00	35.09	37.48	54.00	-16.52
V	2745.322	43.70	3.11	27.13	35.05	38.88	54.00	-15.12
V	3659.964	44.00	3.80	27.87	34.77	40.90	54.00	-13.10

Test Location : Compatible Electronics **Page** : 1/1
Customer : Scott Walter **Date** : 12/03/2008
Manufacturer : Onsite Products **Time** : 09:55:39 AM
Eut name : Sensor Module **Lab** : J
Model : P/N: XSM-01 **Test Distance** : 3.00 Meters
Serial # :
Specification : FCC Pt. 15 B
Distance correction factor (20 * log(test/spec)) : 0.00
Test Mode : Test Range: 30-1000MHz
Test Engineer: Eugene Adams
Receive Mode
Battery

Pol	Freq MHz	Reading dBuV	Cable loss dB	Antenna factor dB	Amplifier gain dB	Corr'd rdg = R dBuV/m	Limit = L dBuV/m	Delta R-L dB
V	935.226	35.20	6.67	23.59	31.76	33.71	46.00	-12.29
V	944.951	36.70	6.82	23.86	31.85	35.53	46.00	-10.47
V	955.400	35.90	6.84	23.98	31.82	34.90	46.00	-11.10
V	965.184	35.80	6.75	23.94	31.68	34.80	54.00	-19.20
V	975.354	34.90	6.64	23.90	31.54	33.90	54.00	-20.10
V	984.852	35.40	6.55	23.86	31.41	34.40	54.00	-19.60
H	934.854	35.00	6.66	23.58	31.75	33.49	46.00	-12.51
H	944.842	35.40	6.82	23.86	31.85	34.23	46.00	-11.77
H	954.996	35.70	6.85	23.98	31.83	34.70	46.00	-11.30
H	964.720	36.00	6.75	23.94	31.69	35.00	54.00	-19.00
H	975.426	35.00	6.64	23.90	31.54	34.00	54.00	-20.00
H	985.334	35.20	6.54	23.86	31.40	34.20	54.00	-19.80

CONDUCTED EMISSIONS

DATA SHEETS

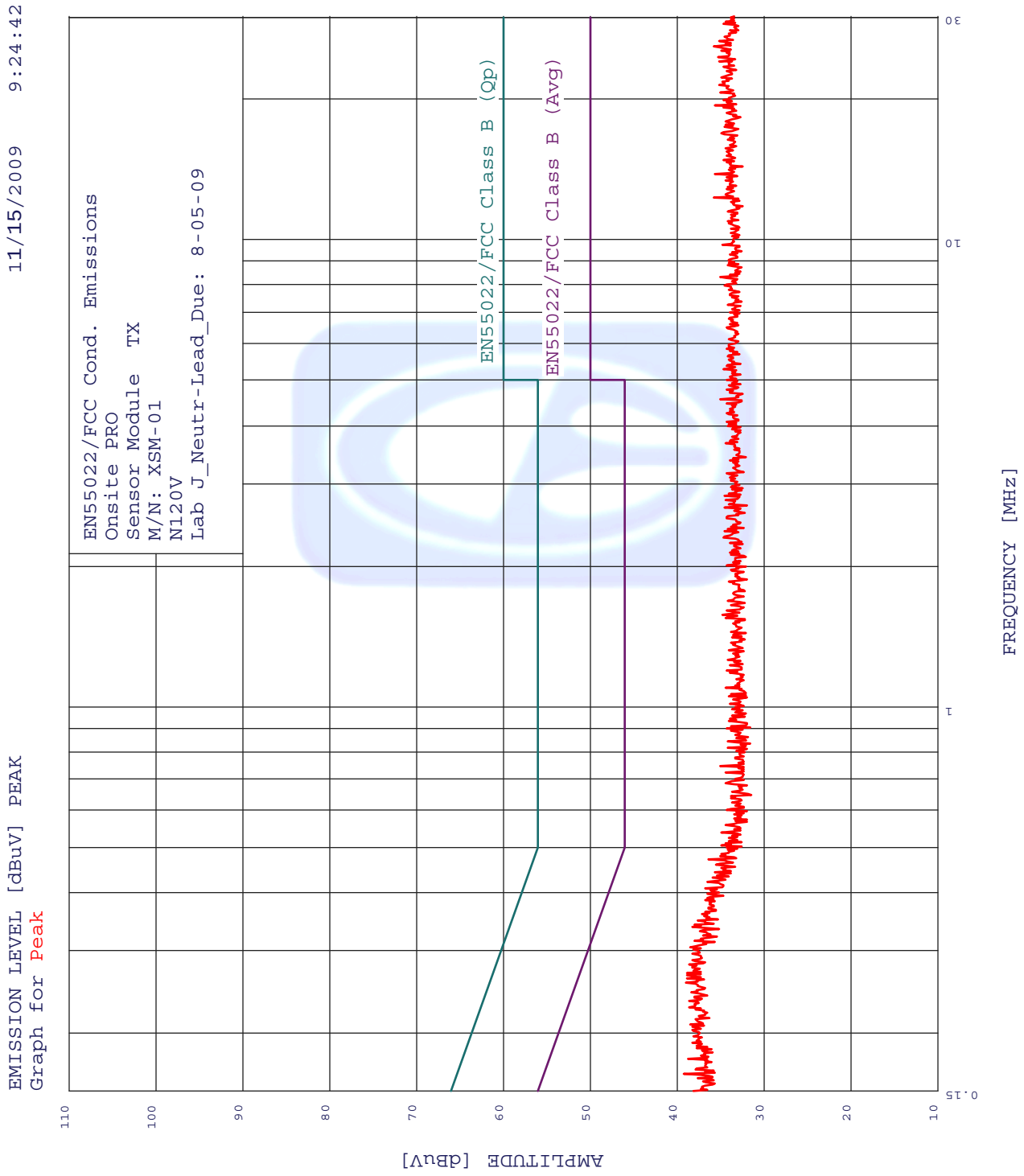

11/15/2009 9:20:04
EMISSION LEVEL [dBuV] PEAK
Graph for Peak
EN55022/FCC Cond. Emissions
Onsite PRO
Sensor Module TX
M/N: XSM-01
L120V
Lab J_Line-Lead_Due: 8-05-09
EN55022/FCC Class B (Qp)
EN55022/FCC Class B (Avg)
AMPLITUDE [dBuV]
110
100
90
80
70
60
50
40
30
20
10
0.15
1
10
30
FREQUENCY [MHz]

EN55022/FCC Cond. Emissions 11/15/2009 9:20:04
Onsite PRO
Sensor Module TX
M/N: XSM-01
L120V
Lab J_Line-Lead_Due: 8-05-09
TEST ENGINEER : Eugene Adams

---

50 highest peaks above -50.00 dB of EN55022/FCC Class B (Avg) limit line
Peak criteria : 0.10 dB, Curve : Peak

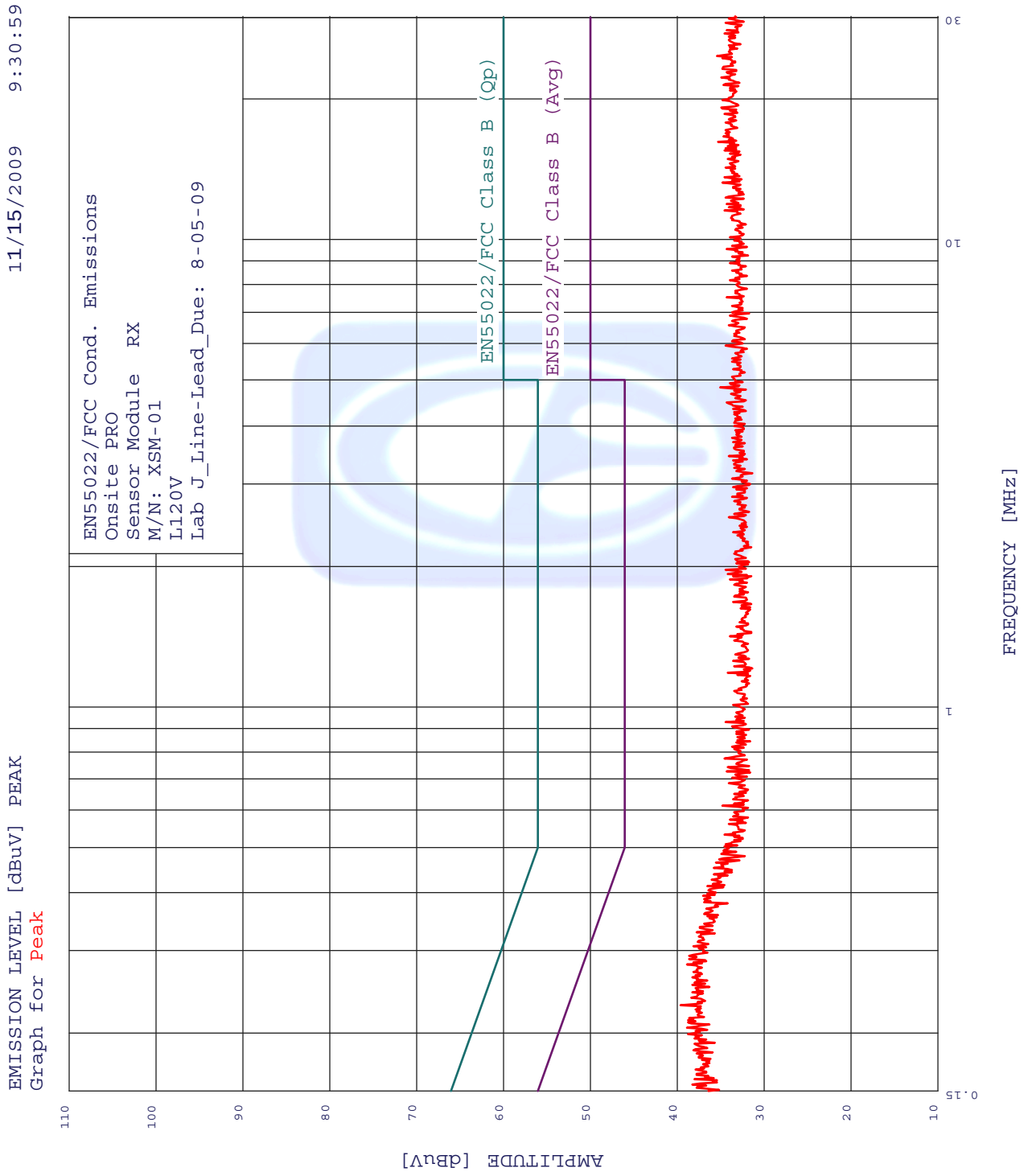
Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	3.565	34.94	46.00	-11.06
2	0.532	34.75	46.00	-11.25
3	0.567	34.45	46.00	-11.55
4	0.354	37.28	48.87	-11.58
5	3.820	34.40	46.00	-11.60
6	4.339	34.38	46.00	-11.62
7	0.464	34.99	46.62	-11.63
8	0.363	36.97	48.65	-11.68
9	0.396	36.24	47.95	-11.70
10	0.481	34.57	46.32	-11.74
11	0.573	34.25	46.00	-11.75
12	0.402	35.94	47.81	-11.88
13	0.373	36.46	48.43	-11.96
14	4.648	34.02	46.00	-11.98
15	0.267	39.16	51.20	-12.04
16	0.317	37.72	49.79	-12.08
17	0.377	36.26	48.34	-12.08
18	0.324	37.51	49.62	-12.11
19	0.505	33.86	46.00	-12.14
20	0.516	33.86	46.00	-12.14
21	0.383	36.05	48.21	-12.15
22	0.611	33.84	46.00	-12.16
23	0.634	33.83	46.00	-12.17
24	0.358	36.58	48.78	-12.20
25	3.328	33.79	46.00	-12.21
26	3.722	33.78	46.00	-12.22
27	0.544	33.75	46.00	-12.25
28	0.839	33.69	46.00	-12.31
29	0.299	37.93	50.28	-12.34
30	0.555	33.65	46.00	-12.35
31	1.663	33.61	46.00	-12.39
32	4.384	33.59	46.00	-12.41
33	0.426	34.92	47.33	-12.41
34	0.310	37.52	49.97	-12.44
35	0.277	38.45	50.89	-12.45
36	0.409	35.23	47.68	-12.45
37	0.586	33.54	46.00	-12.46
38	3.124	33.54	46.00	-12.46
39	2.665	33.54	46.00	-12.46
40	0.320	37.21	49.71	-12.49
41	2.501	33.50	46.00	-12.50
42	1.528	33.48	46.00	-12.52
43	4.294	33.48	46.00	-12.52
44	0.339	36.70	49.22	-12.53
45	3.209	33.46	46.00	-12.54
46	0.561	33.45	46.00	-12.55
47	3.511	33.43	46.00	-12.57
48	0.788	33.40	46.00	-12.60
49	0.345	36.49	49.09	-12.60
50	0.304	37.53	50.14	-12.61


EMISSION LEVEL [dBuV] PEAK
Graph for Peak
11/15/2009 9:24:42
EN55022/FCC Cond. Emissions
Onsite PRO
Sensor Module TX
M/N: XSM-01
N120V
Lab J_Neutr-Lead_Due: 8-05-09
EN55022/FCC Class B (Qp)
EN55022/FCC Class B (Avg)
AMPLITUDE [dBuV]
110
100
90
80
70
60
50
40
30
20
10
0.15
1
10
30
FREQUENCY [MHz]

EN55022/FCC Cond. Emissions 11/15/2009 9:24:42
Onsite PRO
Sensor Module TX
M/N: XSM-01
N120V
Lab J_Neutr-Lead_Due: 8-05-09
TEST ENGINEER : Eugene Adams

50 highest peaks above -50.00 dB of EN55022/FCC Class B (Avg) limit line
Peak criteria : 0.10 dB, Curve : Peak

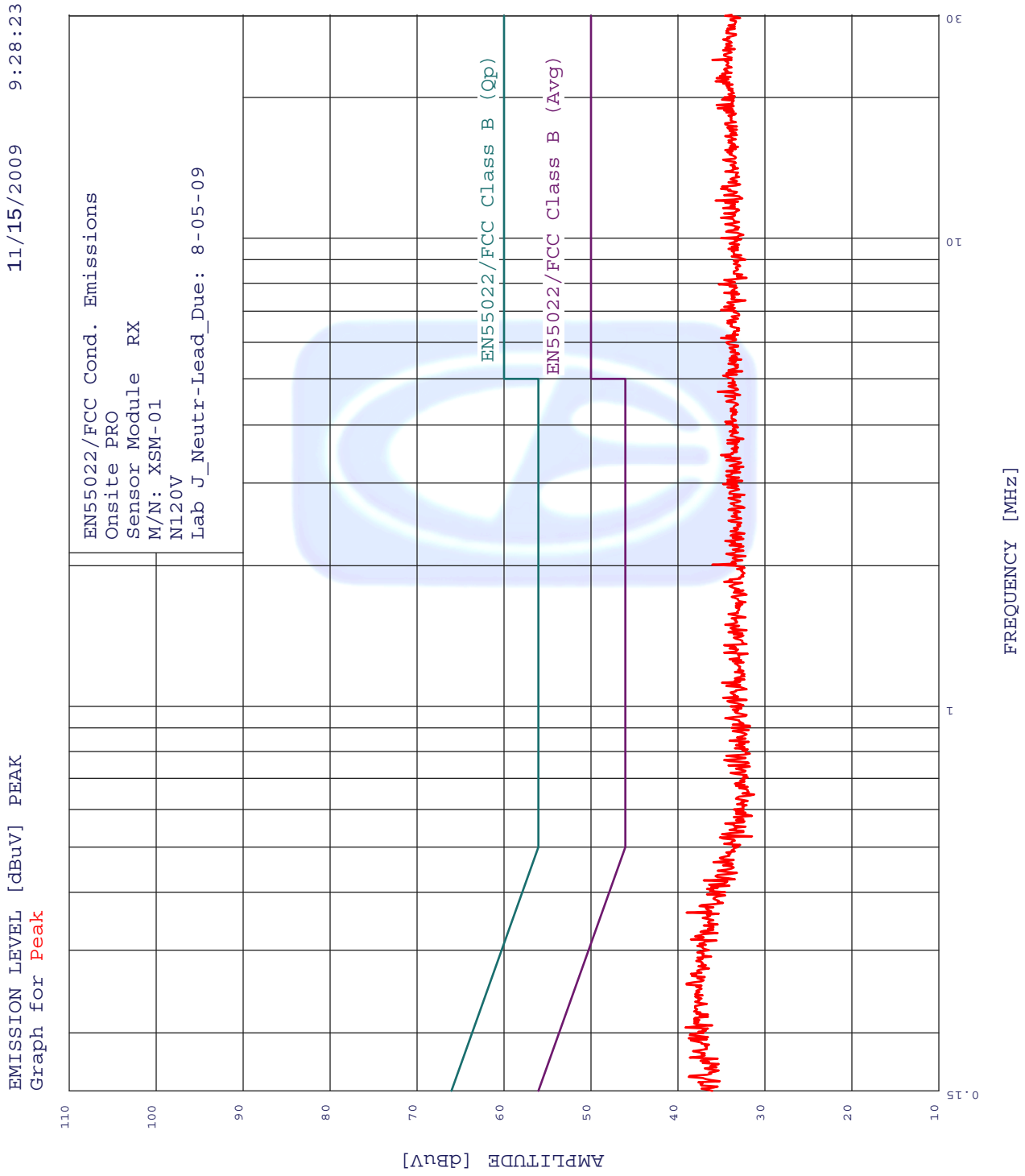
Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	0.471	36.30	46.49	-10.19
2	0.421	36.54	47.42	-10.88
3	0.409	36.75	47.68	-10.93
4	4.552	35.06	46.00	-10.94
5	0.747	35.03	46.00	-10.97
6	0.338	38.21	49.26	-11.05
7	0.505	34.88	46.00	-11.12
8	0.538	34.87	46.00	-11.13
9	0.341	38.01	49.18	-11.17
10	0.459	35.51	46.71	-11.20
11	1.577	34.72	46.00	-11.28
12	2.298	34.66	46.00	-11.34
13	0.479	35.00	46.36	-11.36
14	0.484	34.89	46.27	-11.38
15	0.385	36.77	48.16	-11.39
16	0.442	35.63	47.02	-11.39
17	0.348	37.60	49.00	-11.40
18	0.431	35.83	47.24	-11.40
19	0.398	36.46	47.90	-11.44
20	2.665	34.53	46.00	-11.47
21	2.371	34.47	46.00	-11.53
22	2.826	34.47	46.00	-11.53
23	1.100	34.42	46.00	-11.58
24	1.552	34.41	46.00	-11.59
25	0.389	36.47	48.08	-11.61
26	0.404	36.15	47.77	-11.61
27	0.510	34.38	46.00	-11.62
28	0.558	34.37	46.00	-11.63
29	0.360	37.09	48.73	-11.64
30	2.766	34.35	46.00	-11.65
31	0.686	34.34	46.00	-11.66
32	0.305	38.44	50.10	-11.66
33	0.724	34.34	46.00	-11.66
34	3.663	34.33	46.00	-11.67
35	2.002	34.30	46.00	-11.70
36	0.435	35.43	47.15	-11.72
37	4.774	34.28	46.00	-11.72
38	0.500	34.28	46.01	-11.72
39	0.601	34.26	46.00	-11.74
40	4.456	34.25	46.00	-11.75
41	1.197	34.24	46.00	-11.76
42	3.158	34.23	46.00	-11.77
43	4.249	34.22	46.00	-11.78
44	1.603	34.22	46.00	-11.78
45	2.540	34.21	46.00	-11.79
46	4.071	34.21	46.00	-11.79
47	0.899	34.20	46.00	-11.80
48	1.262	34.15	46.00	-11.85
49	1.690	34.14	46.00	-11.86
50	0.818	34.12	46.00	-11.88


11/15/2009 9:30:59
EMISSION LEVEL [dBuV] PEAK
Graph for Peak
EN55022/FCC Cond. Emissions
Onsite PRO
Sensor Module RX
M/N: XSM-01
L120V
Lab J_Line-Lead_Due: 8-05-09
EN55022/FCC Class B (Qp)
EN55022/FCC Class B (Avg)
AMPLITUDE [dBuV]
110
100
90
80
70
60
50
40
30
20
10
0.15
1
10
30
FREQUENCY [MHz]

EN55022/FCC Cond. Emissions 11/15/2009 9:30:59
Onsite PRO
Sensor Module RX
M/N: XSM-01
L120V
Lab J_Line-Lead_Due: 8-05-09
TEST ENGINEER : Eugene Adams

50 highest peaks above -50.00 dB of EN55022/FCC Class B (Avg) limit line
Peak criteria : 0.10 dB, Curve : Peak

Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	4.825	35.04	46.00	-10.96
2	0.393	36.94	47.99	-11.05
3	0.452	35.80	46.85	-11.05
4	0.413	36.53	47.59	-11.06
5	0.464	35.49	46.62	-11.13
6	0.614	34.74	46.00	-11.26
7	0.387	36.85	48.12	-11.27
8	0.471	35.18	46.49	-11.31
9	0.426	36.02	47.33	-11.31
10	0.381	36.85	48.25	-11.40
11	0.438	35.71	47.11	-11.40
12	0.484	34.87	46.27	-11.40
13	0.404	36.33	47.77	-11.43
14	0.502	34.56	46.00	-11.44
15	0.398	36.44	47.90	-11.46
16	0.492	34.67	46.14	-11.47
17	0.775	34.50	46.00	-11.50
18	0.532	34.45	46.00	-11.55
19	1.960	34.38	46.00	-11.62
20	0.929	34.37	46.00	-11.63
21	0.508	34.36	46.00	-11.64
22	0.417	35.82	47.50	-11.68
23	0.728	34.31	46.00	-11.69
24	0.329	37.71	49.48	-11.78
25	4.480	34.20	46.00	-11.80
26	0.459	34.89	46.71	-11.82
27	1.929	34.17	46.00	-11.83
28	0.369	36.67	48.52	-11.85
29	0.360	36.88	48.73	-11.86
30	0.338	37.40	49.26	-11.87
31	0.743	34.11	46.00	-11.89
32	1.184	34.10	46.00	-11.90
33	0.293	38.54	50.45	-11.91
34	0.561	34.05	46.00	-11.95
35	0.280	38.85	50.81	-11.96
36	0.686	34.02	46.00	-11.98
37	0.433	35.21	47.19	-11.98
38	3.438	34.01	46.00	-11.99
39	2.540	34.01	46.00	-11.99
40	0.307	38.03	50.05	-12.03
41	0.288	38.54	50.58	-12.04
42	0.573	33.95	46.00	-12.05
43	4.928	33.86	46.00	-12.14
44	1.869	33.86	46.00	-12.14
45	1.419	33.85	46.00	-12.15
46	0.322	37.41	49.66	-12.25
47	0.313	37.62	49.88	-12.26
48	4.672	33.73	46.00	-12.27
49	0.822	33.70	46.00	-12.30
50	0.909	33.68	46.00	-12.32


EMISSION LEVEL [dBuV] PEAK
Graph for Peak
11/15/2009 9:28:23
EN55022/FCC Cond. Emissions
Onsite PRO
Sensor Module RX
M/N: XSM-01
N120V
Lab J_Neutr-Lead_Due: 8-05-09
EN55022/FCC Class B (Qp)
EN55022/FCC Class B (Avg)
AMPLITUDE [dBuV]
110
100
90
80
70
60
50
40
30
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10
0.15
1
10
30
FREQUENCY [MHz]

EN55022/FCC Cond. Emissions 11/15/2009 9:28:23
Onsite PRO
Sensor Module RX
M/N: XSM-01
N120V
Lab J_Neutr-Lead_Due: 8-05-09
TEST ENGINEER : Eugene Adams

50 highest peaks above -50.00 dB of EN55022/FCC Class B (Avg) limit line
Peak criteria : 0.10 dB, Curve : Peak

Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	0.362	38.89	48.69	-9.80
2	2.002	36.00	46.00	-10.00
3	0.424	36.94	47.37	-10.43
4	4.696	35.37	46.00	-10.63
5	0.464	35.81	46.62	-10.81
6	0.524	35.08	46.00	-10.92
7	0.373	37.48	48.43	-10.95
8	3.438	34.99	46.00	-11.01
9	0.532	34.87	46.00	-11.13
10	0.406	36.55	47.72	-11.17
11	1.124	34.82	46.00	-11.18
12	1.043	34.81	46.00	-11.19
13	0.415	36.35	47.55	-11.20
14	2.979	34.80	46.00	-11.20
15	1.352	34.67	46.00	-11.33
16	1.304	34.66	46.00	-11.34
17	0.474	35.10	46.45	-11.35
18	0.317	38.43	49.79	-11.36
19	0.767	34.63	46.00	-11.37
20	0.396	36.56	47.95	-11.38
21	0.508	34.58	46.00	-11.42
22	1.840	34.57	46.00	-11.43
23	0.561	34.57	46.00	-11.43
24	2.250	34.55	46.00	-11.45
25	0.944	34.53	46.00	-11.47
26	4.050	34.51	46.00	-11.49
27	1.496	34.50	46.00	-11.50
28	3.401	34.48	46.00	-11.52
29	4.600	34.46	46.00	-11.54
30	0.402	36.26	47.81	-11.55
31	0.433	35.63	47.19	-11.56
32	0.783	34.42	46.00	-11.58
33	3.107	34.42	46.00	-11.58
34	1.106	34.42	46.00	-11.58
35	0.411	36.05	47.63	-11.58
36	4.008	34.40	46.00	-11.60
37	3.346	34.37	46.00	-11.63
38	0.445	35.32	46.98	-11.65
39	4.480	34.35	46.00	-11.65
40	3.175	34.33	46.00	-11.67
41	2.111	34.32	46.00	-11.68
42	1.027	34.31	46.00	-11.69
43	3.011	34.30	46.00	-11.70
44	2.932	34.29	46.00	-11.71
45	0.369	36.79	48.52	-11.73
46	0.322	37.93	49.66	-11.74
47	3.702	34.24	46.00	-11.76
48	3.644	34.23	46.00	-11.77
49	3.043	34.21	46.00	-11.79
50	0.352	37.10	48.91	-11.81