

FCC 47 CFR PART 15 SUBPART C

PERMISSIVE CHANGE REPORT

FOR

CORDELLA PULMONARY ARTERY SENSOR SYSTEM

MODEL NUMBER: myCordella Handheld Patient Reader REF 100102-01 Rev7

REPORT NUMBER: NBK15017195C.V1

FCC ID: 2AR87ETXCPAS01

ISSUE DATE: 2023-12-06

Prepared for
ENDOTRONIX INC.
1415 West Diehl Road
Suite #500W
Naperville, IL 60563, US

Prepared by
UL LLC
333 Pfingsten Rd.
Northbrook, IL 60062, US
TEL: (847) 272-8800



Revision History

<u>Rev.</u>	<u>Issue Date</u>	<u>Revisions</u>	<u>Revised By</u>
--		Initial Issue	

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: **ENDOTRONIX INC.**
1415 West Diehl Road
Suite #500W
Naperville, IL 60563, US

EUT DESCRIPTION: **CORDELLA PULMONARY ARTERY SENSOR SYSTEM**

MODEL: **myCordella Handheld Patient Reader REF 100102-01 Rev7**

SERIAL NUMBER: 1911 & 1912

SAMPLE RECEIPT DATE: 2023-10-25

DATE TESTED: 2023-10-25 to 2023-11-01

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC PART 15 SUBPART C	Complies

UL LLC tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. All samples tested were in good operating condition throughout the entire test program. Measurement Uncertainties are published for informational purposes only and were not taken into account unless noted otherwise.

This document may not be altered or revised in any way unless done so by UL LLC and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL LLC will constitute fraud and shall nullify the document.

Approved & Released For
UL LLC By:

Tested and Prepared By:



Mike Antola
Staff Engineer
CONSUMER TECHNOLOGY DIVISION
UL LLC

Bart Mucha
Test Engineer
CONSUMER TECHNOLOGY DIVISION
UL LLC

2. TEST RESULTS SUMMARY

FCC Clause	ISED Clause	Requirement	Result	Comment
15.207	RSS-GEN 8.8	AC Line conducted Emissions	N/A	EUT is battery operated
15.209	RSS-GEN 8.9	Radiated Emissions	Complies	none

3. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.10-2013, FCC CFR 47 Part 2, FCC CFR 47 Part 15. FCC KDB414788

4. FACILITIES AND ACCREDITATION

UL LLC is accredited by A2LA, Certificate Number 0751.07, for all testing performed within the scope of this report. Testing was performed at the locations noted below.

Address	ISED CABID	ISED Company Number	FCC Registration
333 Pfingsten Road Northbrook, IL 60062-2096, U.S.A.	US0065	2180A	152210

5. DECISION RULES AND MEASUREMENT UNCERTAINTY

5.1. METROLOGICAL TRACEABILITY

All test and measuring equipment utilized to perform the tests documented in this report are calibrated on a regular basis, with a maximum time between calibrations of one year or the manufacturers' recommendation, whichever is less, and where applicable is traceable to recognized national standards.

5.2. DECISION RULES

The Decision Rule is based on Simple Acceptance in accordance with ISO Guide 98-4:2012 Clause 8.2. (Measurement uncertainty is not taken into account when stating conformity with a specified requirement.)

5.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

PARAMETER	U _{Lab}
Conducted Disturbance, 0.15 to 30 MHz	3.40 dB
Radiated Disturbance, 9KHz to 30 MHz	2.52 dB
Radiated Disturbance, 30 to 1000 MHz	4.66 dB

Uncertainty figures are valid to a confidence level of 95%.

5.4. SAMPLE CALCULATION

RADIATED EMISSIONS

Where relevant, the following sample calculation is provided:

$$\begin{aligned} \text{Field Strength (dBuV/m)} &= \text{Measured Voltage (dBuV)} + \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} - \text{Preamp Gain (dB)} \\ 36.5 \text{ dBuV} + 18.7 \text{ dB/m} + 0.6 \text{ dB} - 26.9 \text{ dB} &= 28.9 \text{ dBuV/m} \end{aligned}$$

MAINS CONDUCTED EMISSIONS

Where relevant, the following sample calculation is provided:

$$\begin{aligned} \text{Final Voltage (dBuV)} &= \text{Measured Voltage (dBuV)} + \text{Cable Loss (dB)} + \text{Limiter Factor (dB)} + \text{LISN Insertion Loss.} \\ 36.5 \text{ dBuV} + 0 \text{ dB} + 10.1 \text{ dB} + 0 \text{ dB} &= 46.6 \text{ dBuV} \end{aligned}$$

6. EQUIPMENT UNDER TEST

6.1. DESCRIPTION OF EUT

The EUT is a Cordella Pulmonary Artery Sensor System intended for home and professional use. There are no changes to the transmitter part of the device. However there are some changes to the digital part of the device.

6.1. MAXIMUM OUTPUT FIELD STRENGTH

The transmitter has a maximum peak radiated output power as follows:

Frequency MHz	Original EUT Data		Permissive Change EUT Data	
	Peak Field Strength dBuV/m @ 3m	Peak Field Strength dBuV/m @ 30m	Peak Field Strength dBuV/m @ 3m	Peak Field Strength dBuV/m @ 30m
13.09	62.88	22.88	63.70	23.70
13.34	62.18	22.18	63.50	23.50
13.62	62.78	22.78	63.10	23.10
13.90	61.89	21.89	62.98	22.98

6.2. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes an integral patch antenna.

Antenna Area: 0.0192 m²

The smallest antenna length: 0.130meters which is less than 5.4meters (75/13.9MHz) Antenna coil has two turns.

6.3. SOFTWARE AND FIRMWARE

The reader software used during testing was 3.3.1.

6.4. WORST-CASE CONFIGURATION AND MODE

EUT operates on four possible channels and all four channels were measured. Worst case orientation for EUT was when it was positioned perpendicular to ground.

6.5. MODIFICATIONS

No modifications were made during testing.

6.6. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

None

I/O CABLES

None

TEST SETUP



SUPPORT EQUIPMENT

None

7. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
EMI Receiver	Rohde & Schwarz	ESU	52994	2022-12-12	2023-12-31
Hybrid Antenna	SunAR RF Motion	JB1-UN	202902	2023-02-03	2024-02-29
Loop Antenna	EMCO	6502/1	19723	2022-12-12	2023-12-31
Radiated Software	UL	UL EMC	Rev 9.5, 07 Jul 2020		

8. 20 dB AND 99% BW

There was no change in bandwidth.

9. RADIATED EMISSION TEST RESULTS

9.1. LIMITS AND PROCEDURE

LIMITS

FCC §15.209 (a)

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (m)
0.009–0.490	2400/F(kHz)	300
0.490–1.705	24000/F(kHz)	30
1.705–30.0	30	30
30–88	100	3
88 to 216	150	3
216 to 960	200	3
Above 960 MHz	500	3
Note: The lower limit shall apply at the transition frequency.		

TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane for below 1GHz measurements. The antenna to EUT distance is 3 meters for frequencies 9kHz-30MHz and 10 meters for frequencies 30MHz-1GHz.

The levels measured at 10 meter distance were extrapolated to 3 meter distance using the distance factor ($20 \cdot \log(10/3)$).

For measurements below 1 GHz the resolution bandwidth is set to 120 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements for the 30-1000 MHz range, 9 kHz for peak detection measurements or 9 kHz for quasi-peak detection measurements for the 0.15-30 MHz range and 200 Hz for peak detection measurements or 200 Hz for quasi-peak detection measurements for the 9 to 150 kHz range. Peak detection is used unless otherwise noted as quasi-peak.

The spectrum from 9kHz to 1000 MHz is investigated with the transmitter set to all four channels in the band.

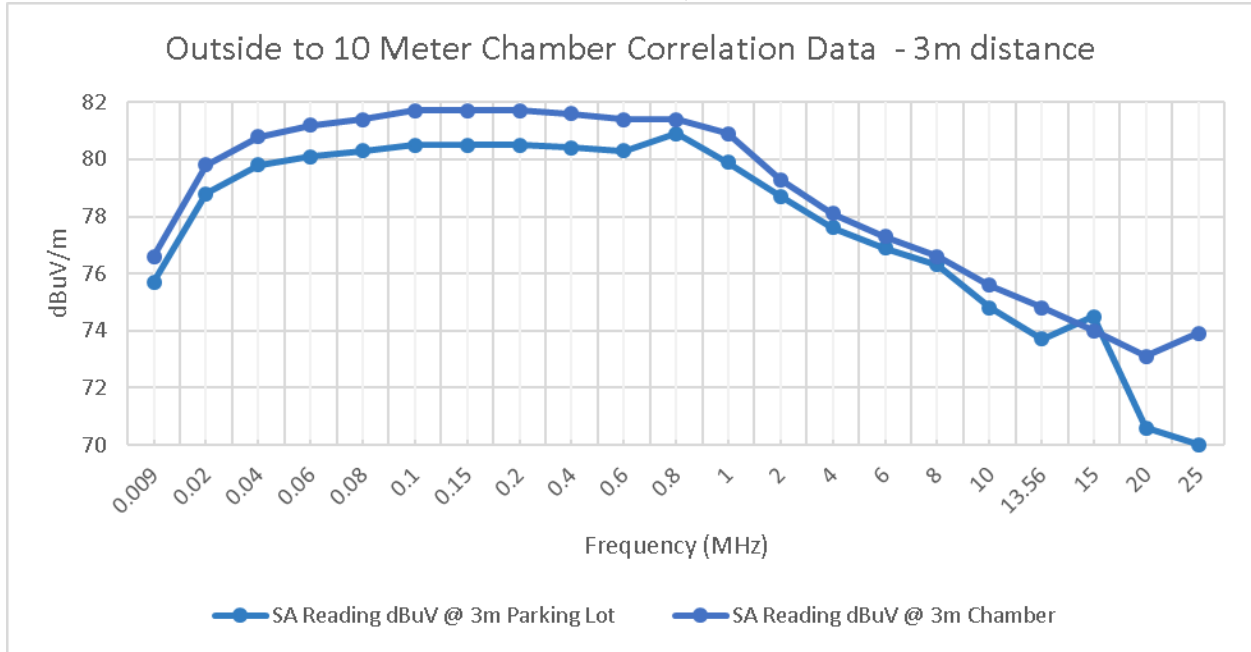
The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions.

RESULTS

9.2. TX EMISSIONS 0.009MHz TO 30 MHz

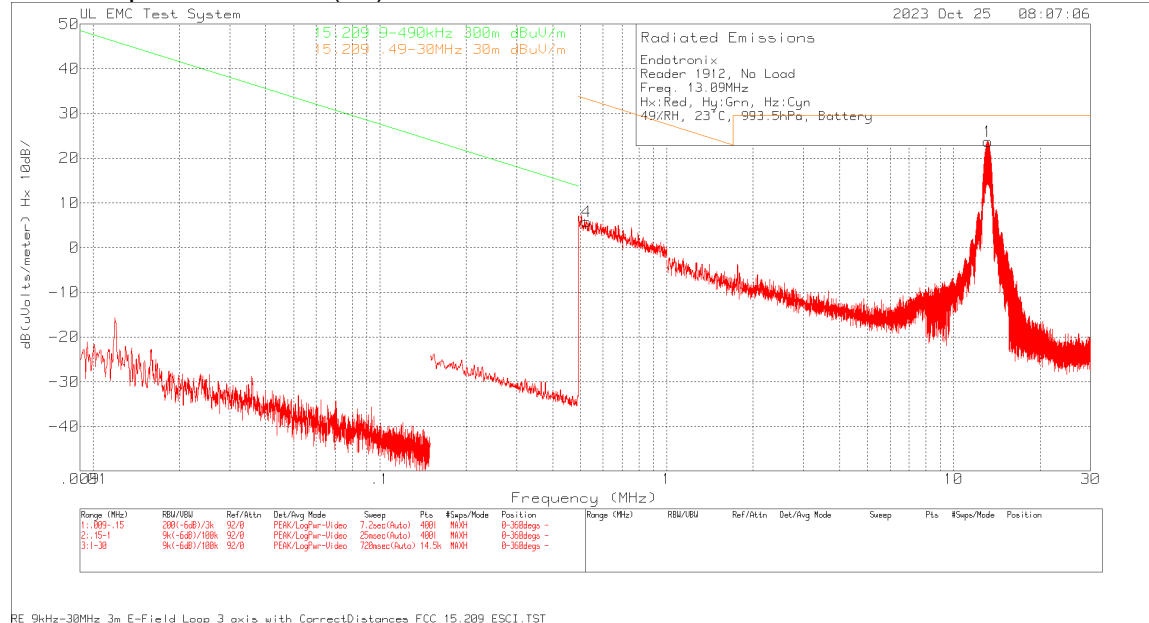
Outdoor to 10m SAC Correlation Data

Correlation Data for measurements 9kHz-30MHz between Outside and 10m semi-anechoic chamber at Underwriters Laboratories in Northbrook, IL.

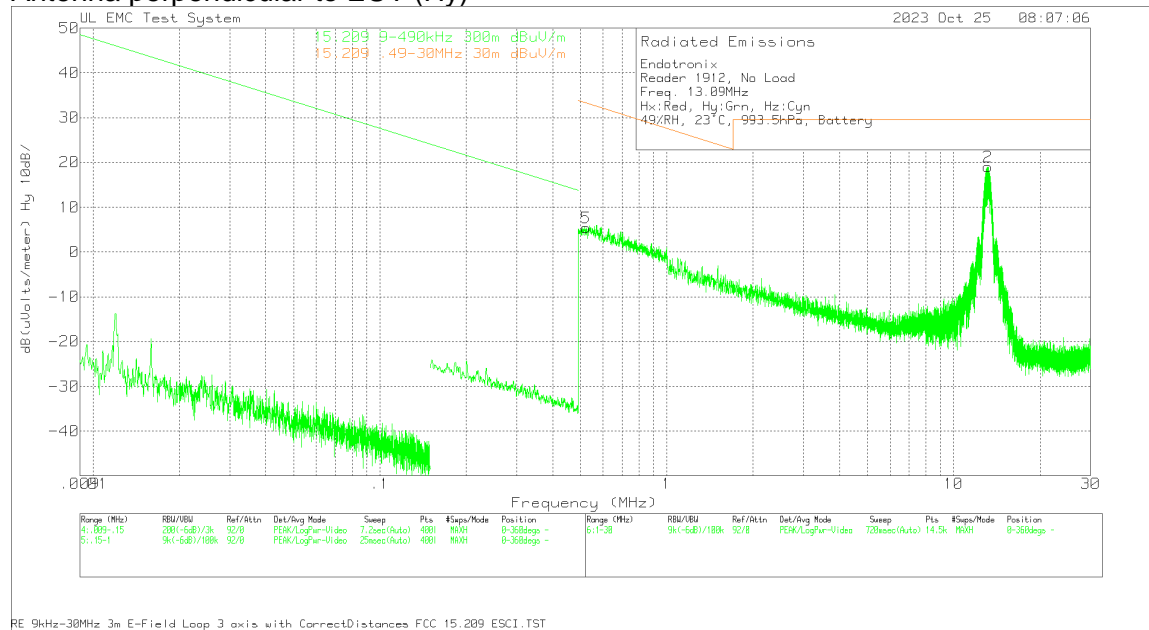


Correlation measurements were conducted using a signal source with an antenna outside in open area (parking lot). Immediately following the measurements the same setup was moved inside the 10 meter semi-anechoic chamber and the measurements were repeated. The above plot shows the difference in levels measured between outside and the 10 meter semi anechoic chamber.

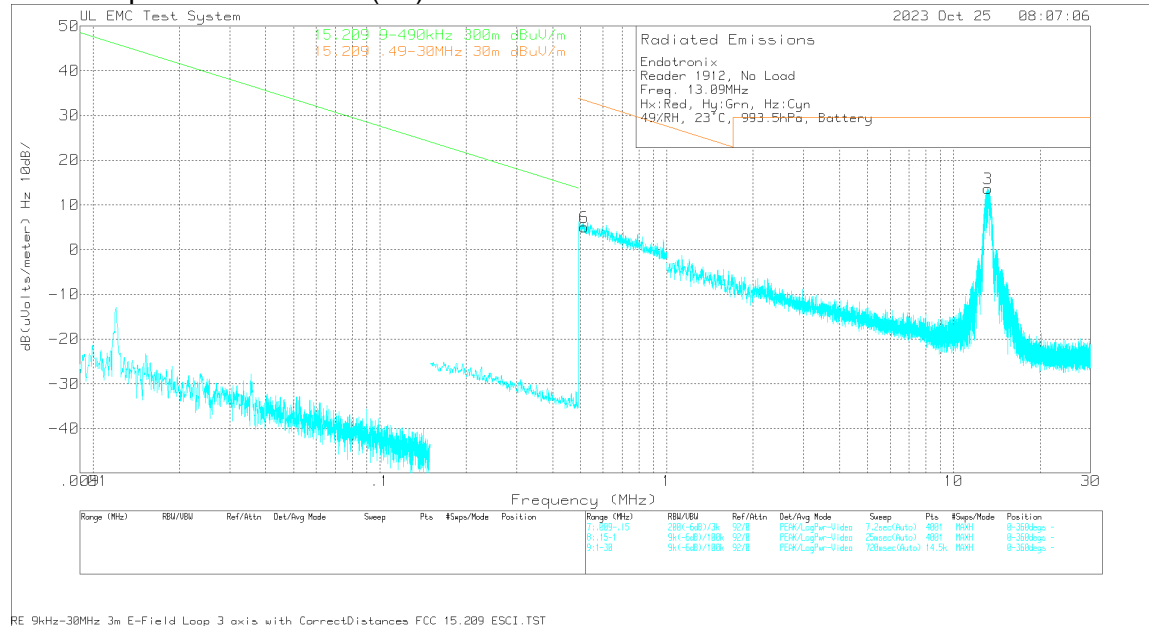
TX Data 13.09MHz
Antenna parallel to EUT (Hx)



Antenna perpendicular to EUT (Hy)

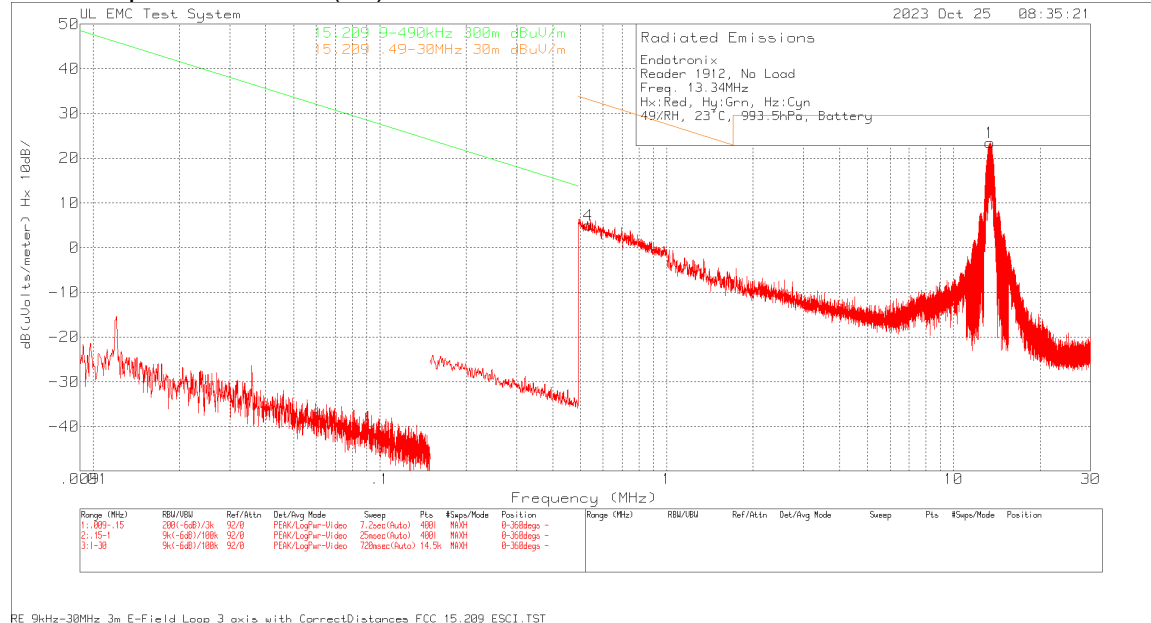


Antenna parallel to Ground (Hz)

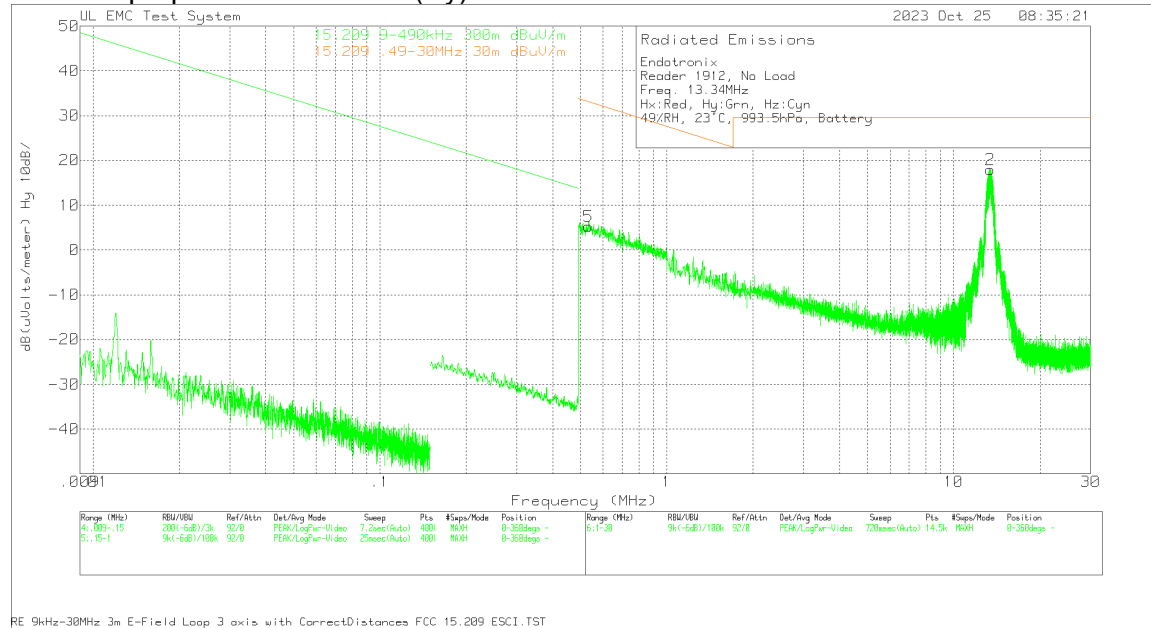


Endotronic												
Reader 1912, No Load												
Freq. 13.09MHz												
Hx:Red, Hy:Gnn, Hz:Cyn												
49%RH, 23°C, 993.5hPa, Battery												
Trace Markers												
Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	Antenna Factor dB/m	Path Factor dB	300mTo3m & 30mTo3m dB	Leel dBuV/m	Limit 15.209 9-490kHz 300m dBuV/m	Margin (dB)	Limit 15.209 .49-30MHz 30m dBuV/m	Margin (dB)	Azimuth [Degs]
Hx												
4	0.52488	33.92	Pk	11.8	0.1	-40	5.82	-	-	33.2	-27.38	0-360
1	13.17	51.9	Pk	11.4	0.4	-40	23.7	-	-	29.54	-5.84	0-360
Hy												
5	0.52403	33.47	Pk	11.8	0.1	-40	5.37	-	-	33.22	-27.85	0-360
2	13.15	47.19	Pk	11.4	0.4	-40	18.99	-	-	29.54	-10.55	0-360
Hz												
6	0.51551	33.17	Pk	11.8	0.1	-40	5.07	-	-	33.36	-28.29	0-360
3	13.17	41.81	Pk	11.4	0.4	-40	13.61	-	-	29.54	-15.93	0-360
Pk - Peak detector												

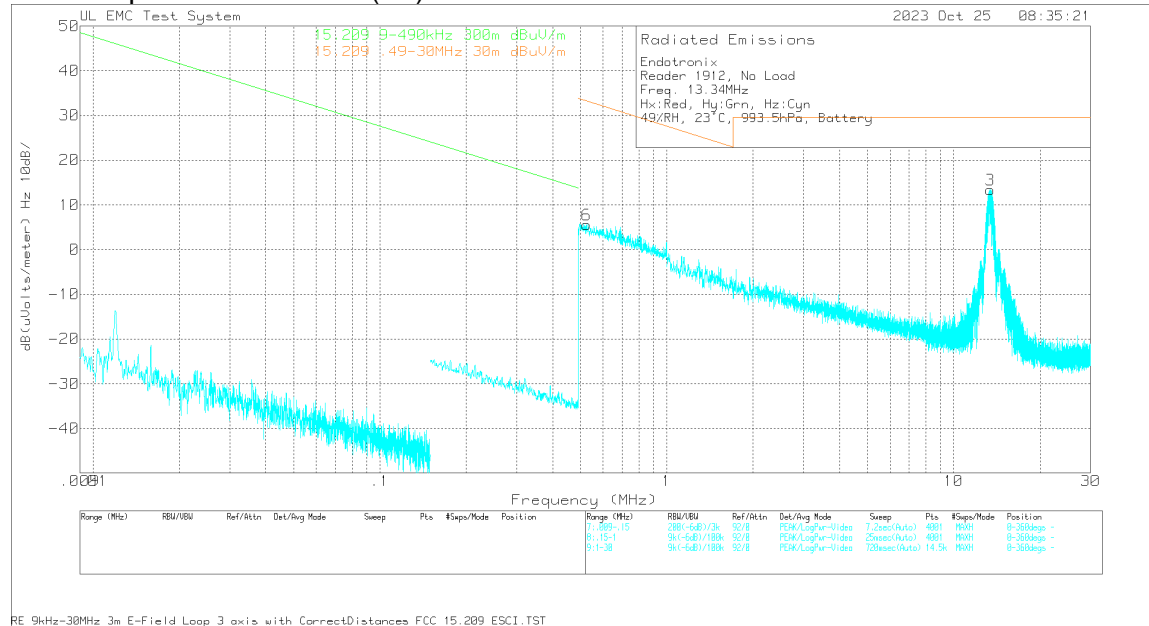
TX Data 13.34MHz
Antenna parallel to EUT (Hx)



Antenna perpendicular to EUT (Hy)

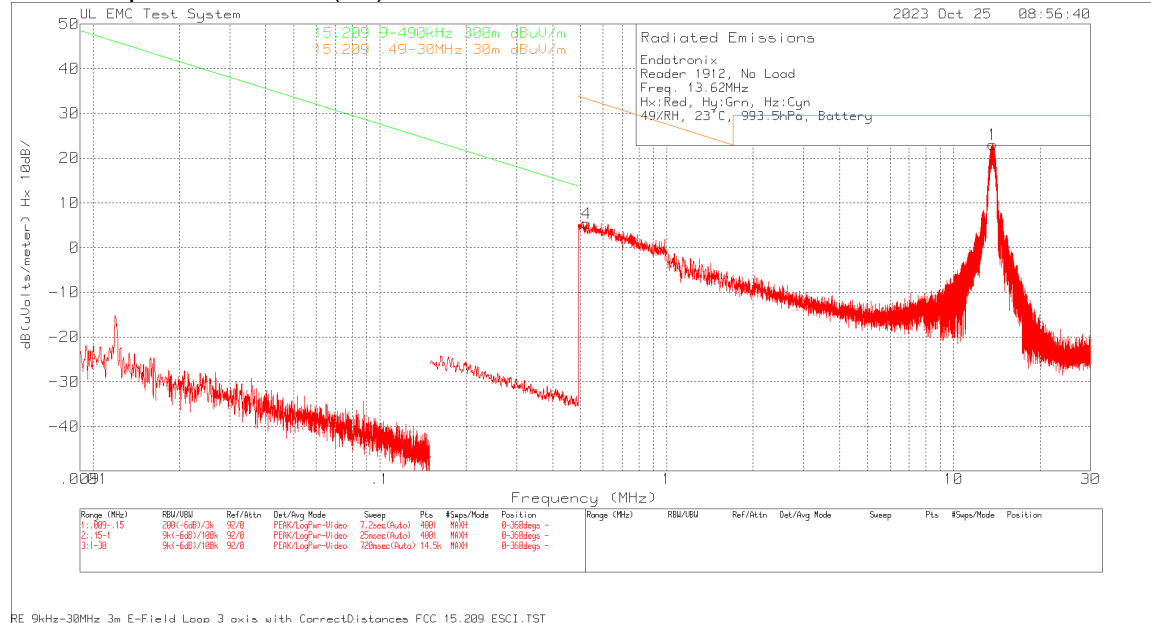


Antenna parallel to Ground (Hz)

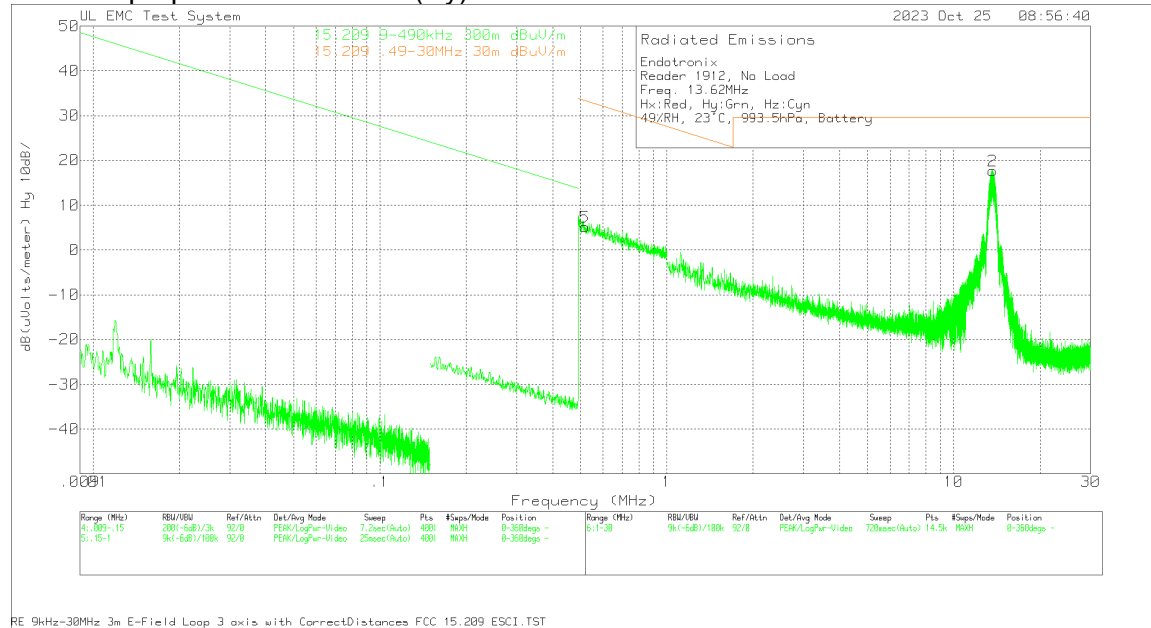


Endotronix												
Reader 1912, No Load												
Freq. 13.34MHz												
Hx:Red, Hy:Gnn, Hz:Cyn												
49%RH, 23°C, 993.5hPa, Battery												
Trace Markers												
Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	Antenna Factor dB/m	Path Factor dB	300mTo3m & 30mTo3m dB	Leel dBuV/m	Limit 15.209 9-490kHz 300m dBuV/m	Margin (dB)	Limit 15.209 .49-30MHz 30m dBuV/m	Margin (dB)	Azimuth [Degs]
Hx												
4	0.53447	33.11	Pk	11.8	0.1	-40	5.01	-	-	33.04	-28.03	0-360
1	13.384	51.7	Pk	11.4	0.4	-40	23.5	-	-	29.54	-6.04	0-360
Hy												
5	0.53276	33.44	Pk	11.8	0.1	-40	5.34	-	-	33.07	-27.73	0-360
2	13.408	46.23	Pk	11.4	0.4	-40	18.03	-	-	29.54	-11.51	0-360
Hz												
6	0.52445	33.68	Pk	11.8	0.1	-40	5.58	-	-	33.21	-27.63	0-360
3	13.42	41.62	Pk	11.4	0.4	-40	13.42	-	-	29.54	-16.12	0-360
Pk - Peak detector												

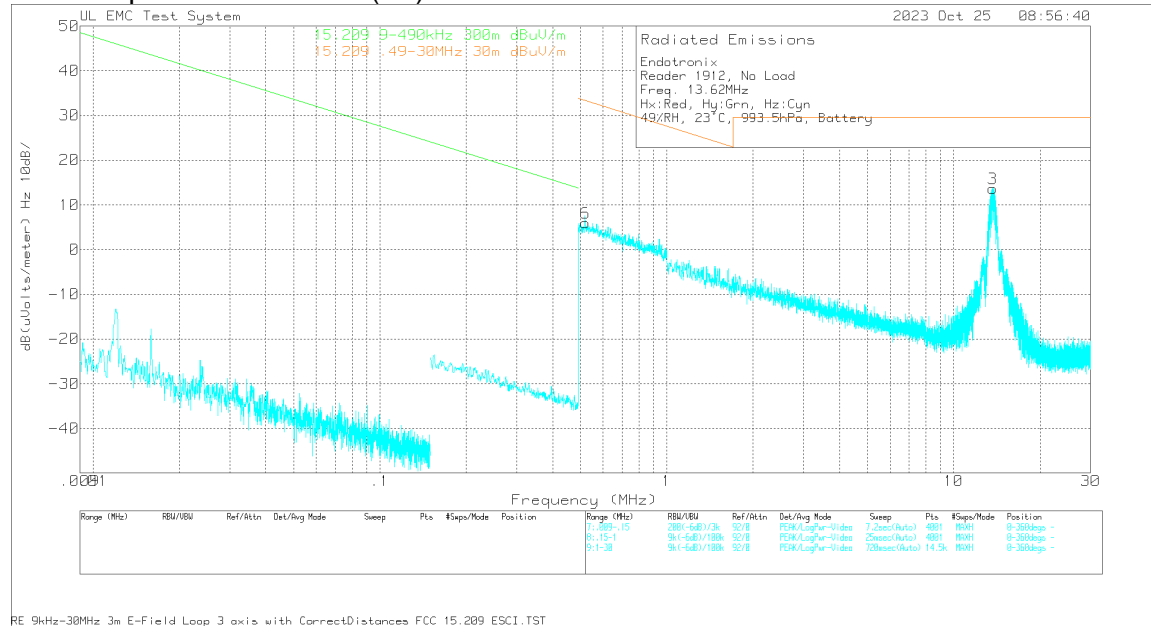
TX Data 13.62MHz
Antenna parallel to EUT (Hx)



Antenna perpendicular to EUT (Hy)

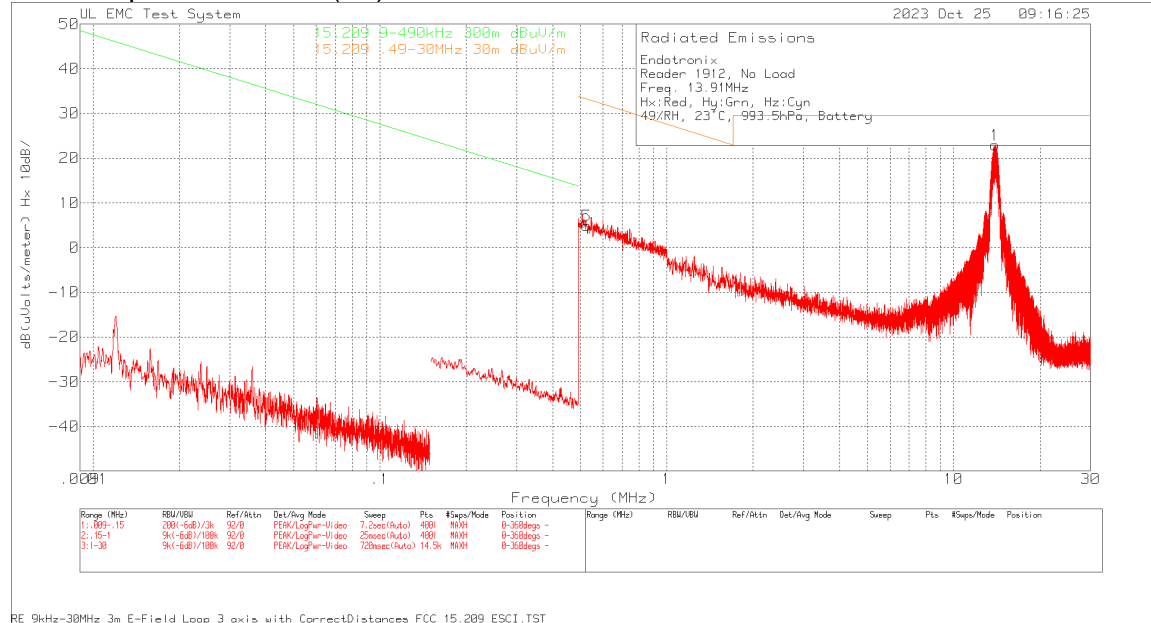


Antenna parallel to Ground (Hz)

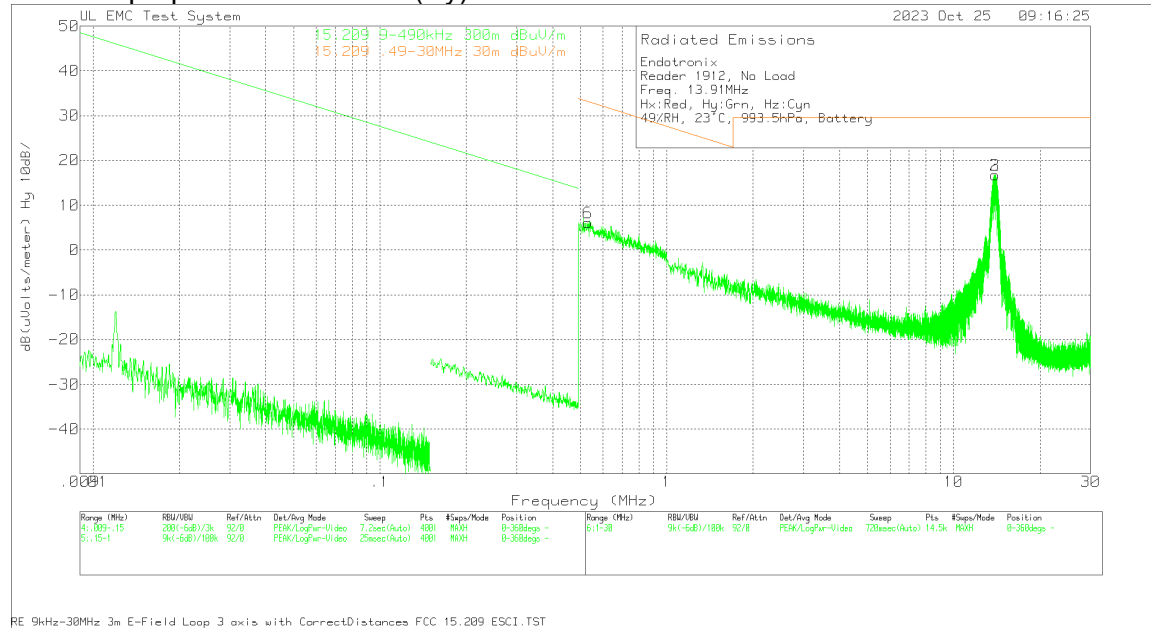


Endotronix												
Reader 1912, No Load												
Freq. 13.62MHz												
Hx:Red, Hy:Gnn, Hz:Cyn												
49%RH, 23°C, 993.5hPa, Battery												
Trace MARKers												
Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	Antenna Factor dB/m	Path Factor dB	300mTo3m & 30mTo3m dB	Leel dBuV/m	Limit 15.209 9-490kHz 300m dBuV/m	Margin (dB)	Limit 15.209 .49-30MHz 30m dBuV/m	Margin (dB)	Azimuth [Degs]
Hx												
4	0.52531	33.48	Pk	11.8	0.1	-40	5.38	-	-	33.2	-27.82	0-360
1	13.652	51.3	Pk	11.4	0.4	-40	23.1	-	-	29.54	-6.44	0-360
Hy												
5	0.5187	33.28	Pk	11.8	0.1	-40	5.18	-	-	33.31	-28.13	0-360
2	13.66	45.96	Pk	11.4	0.4	-40	17.76	-	-	29.54	-11.78	0-360
Hz												
6	0.52083	34.03	Pk	11.8	0.1	-40	5.93	-	-	33.27	-27.34	0-360
3	13.672	41.84	Pk	11.4	0.4	-40	13.64	-	-	29.54	-15.9	0-360
Pk - Peak detector												

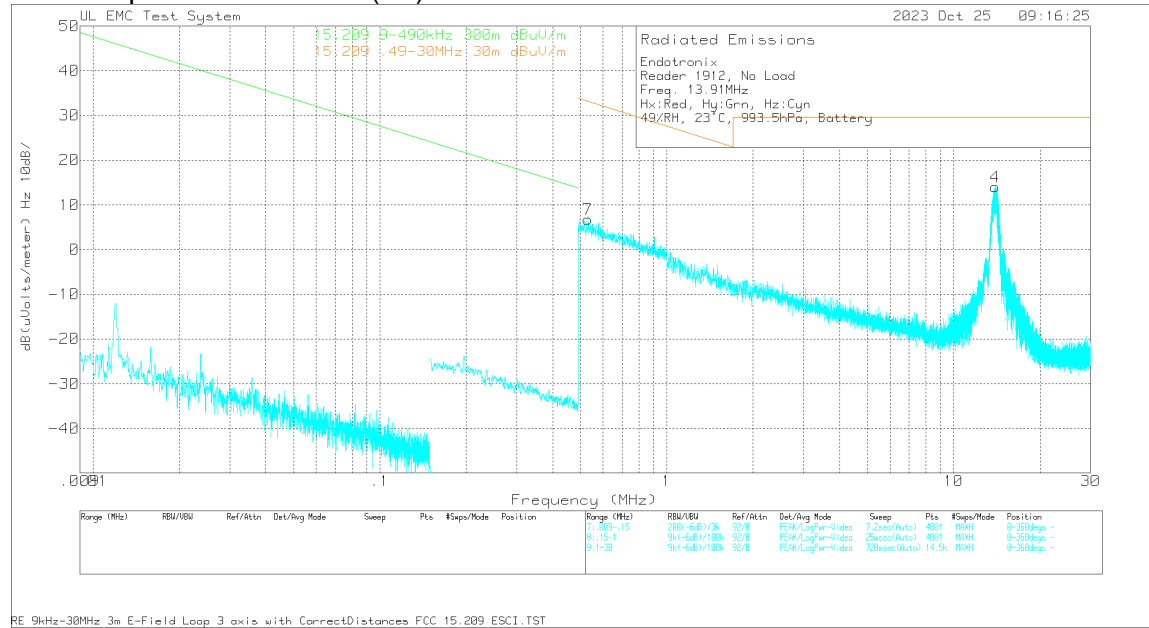
TX Data 13.90MHz
Antenna parallel to EUT (Hx)



Antenna perpendicular to EUT (Hy)

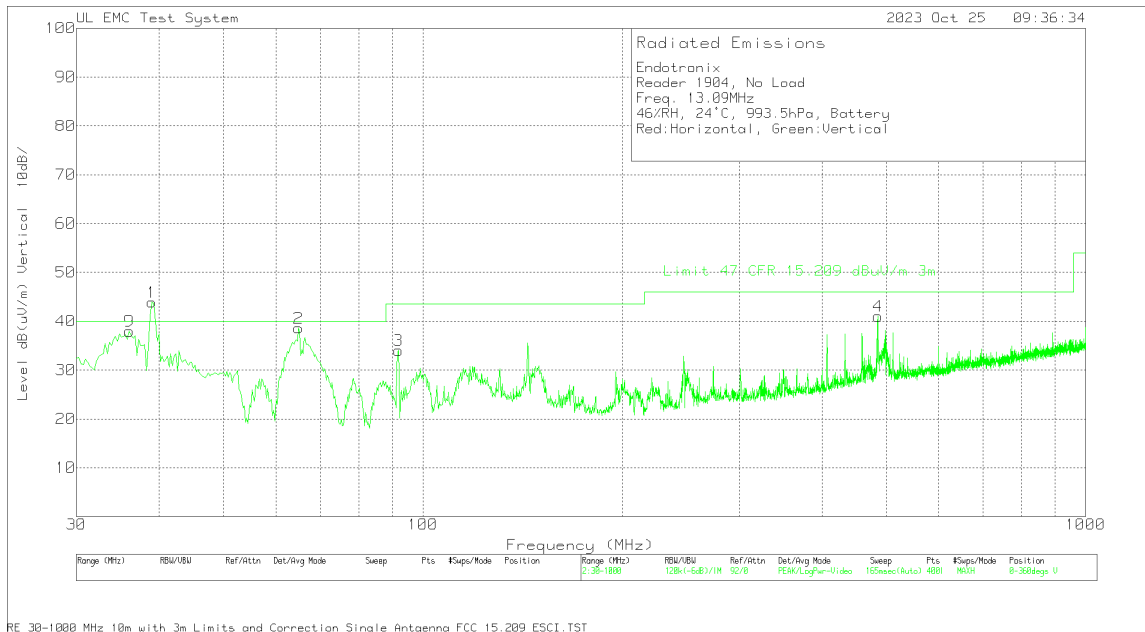
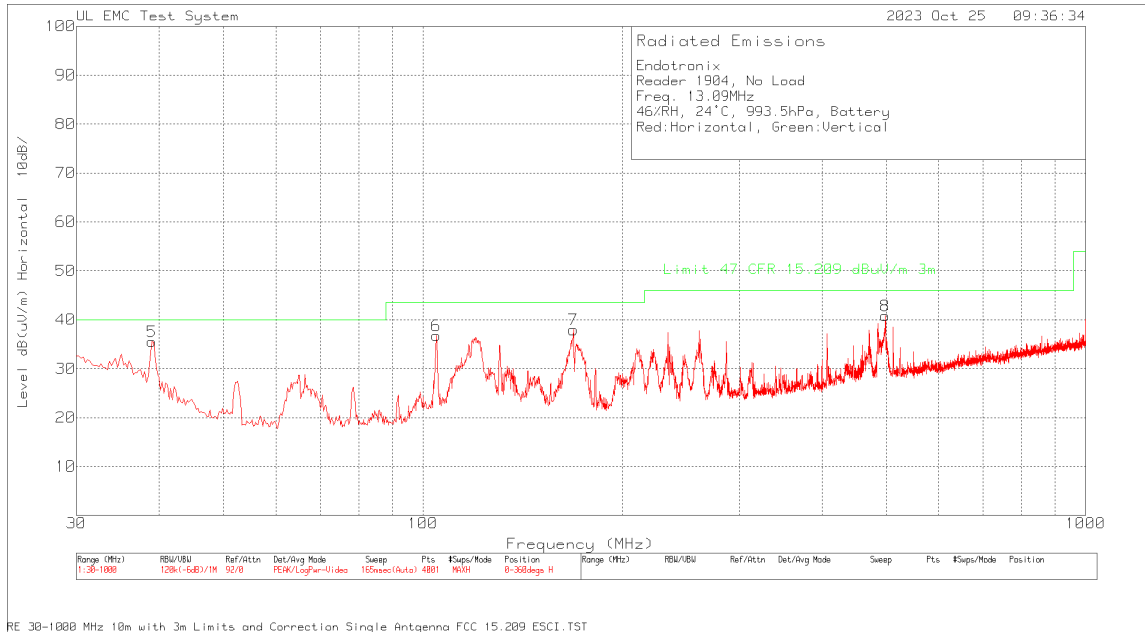


Antenna parallel to Ground (Hz)



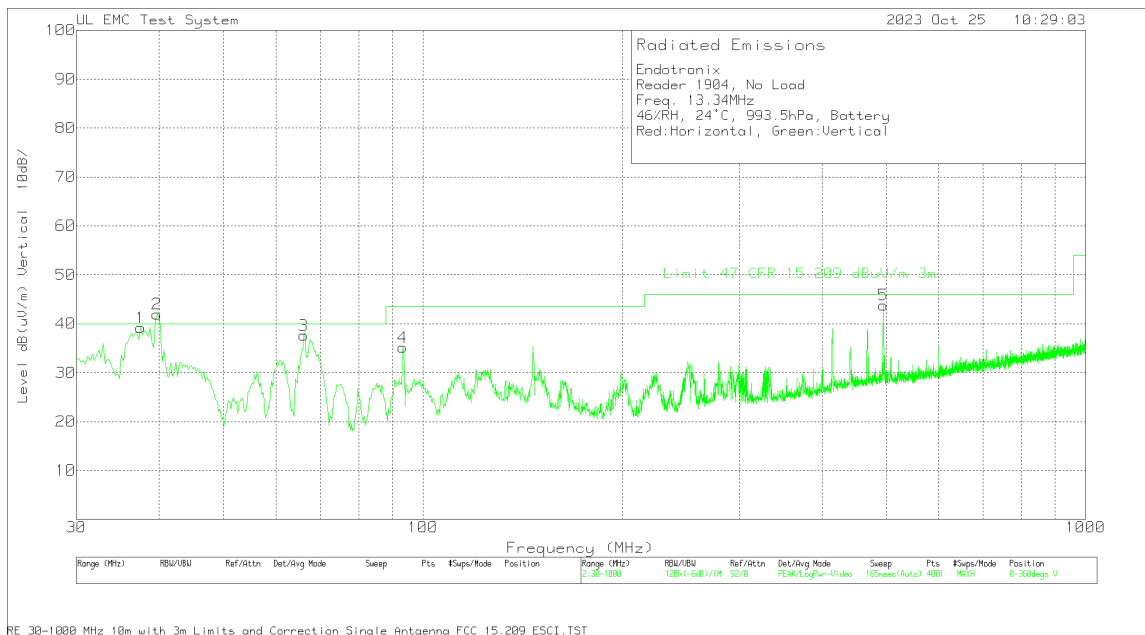
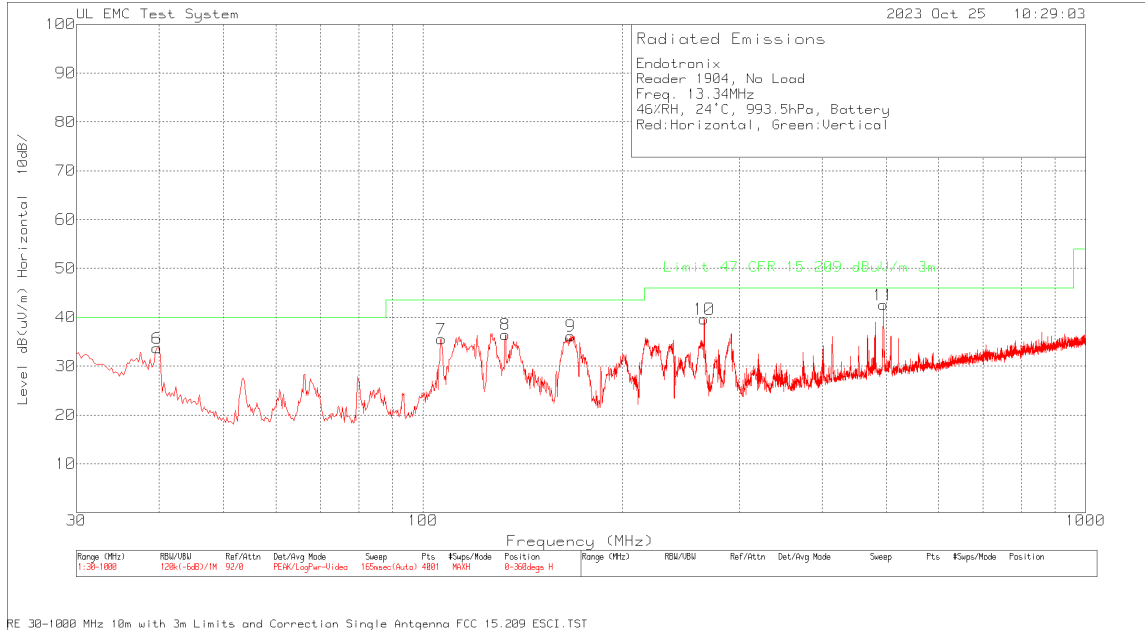
Endotronic												
Reader 1912, No Load												
Freq. 13.91MHz												
Hx:Red, Hy:Gm, Hz:Cyn												
49%RH, 23°C, 993.5hPa, Battery												
Trace MARKERS												
Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	Antenna Factor dB/m	Path Factor dB	300mTo3m & 30mTo3m dB	Leel dBuV/m	Limit 15.209 9-490kHz 300m dBuV/m	Margin (dB)	Limit 15.209 .49-30MHz 30m dBuV/m	Margin (dB)	Azimuth [Degs]
Hx												
5	0.52595	33	Pk	11.8	0.1	-40	4.9	-	-	33.18	-28.28	0-360
1	13.962	51.18	Pk	11.4	0.4	-40	22.98	-	-	29.54	-6.56	0-360
Hy												
6	0.53021	34.25	Pk	11.8	0.1	-40	6.15	-	-	33.11	-26.96	0-360
2	13.94	44.97	Pk	11.4	0.4	-40	16.77	-	-	29.54	-12.77	0-360
3	13.94	44.97	Pk	11.4	0.4	-40	16.77	-	-	29.54	-12.77	0-360
Hz												
7	0.53021	34.85	Pk	11.8	0.1	-40	6.75	-	-	33.11	-26.36	0-360
4	13.964	42.21	Pk	11.4	0.4	-40	14.01	-	-	29.54	-15.53	0-360
Pk - Peak detector												

TX SPURIOUS EMISSION 30 TO 1000 MHz
TX Data for 13.09MHz



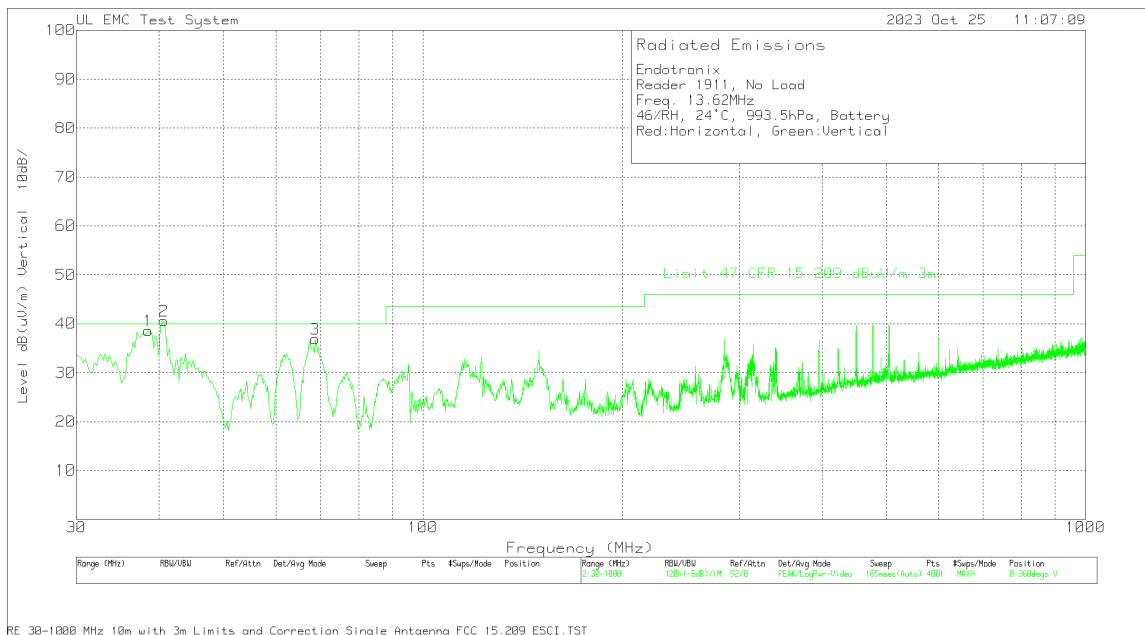
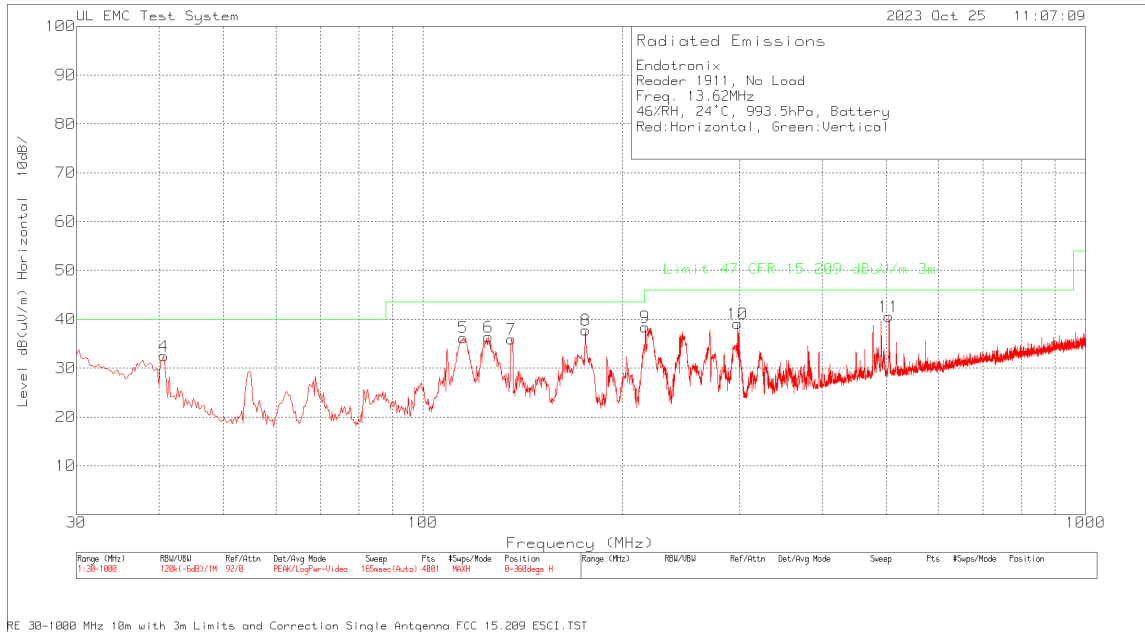
Endotronix												
Reader 1904, No Load												
Freq. 13.09MHz												
46%RH, 24°C, 993.5hPa, Battery												
Red:Horizontal, Green:Vertical												
Trace MArkers												
Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	Antenna Factor dB/m	Path Factor dB	10m to 3m Factor dB	Level @ 3m dBuV/m	Limit 47 CFR 15.209 dBuV/m 3m	Margin (dB)	Azimuth [Degs]	Height [cm]	Polarity
5	38.9725	46.92	Pk	20.8	-42.7	10.5	35.52	40	-4.48	0-360	399	H
6	104.69	51.19	Pk	17.3	-42.2	10.5	36.79	43.52	-6.73	0-360	299	H
7	168.71	51.76	Pk	17.5	-41.8	10.5	37.96	43.52	-5.56	0-360	299	H
8	498.7525	47.84	Pk	23.8	-41.3	10.5	40.84	46.02	-5.18	0-360	199	H
1	38.9725	55.27	Pk	20.8	-42.7	10.5	43.87	40	3.87	0-360	97	V
2	64.92	57.04	Pk	13.8	-42.7	10.5	38.64	40	-1.36	0-360	297	V
3	91.8375	51.72	Pk	14	-42.2	10.5	34.02	43.52	-9.5	0-360	197	V
4	485.6575	48.13	Pk	23.8	-41.4	10.5	41.03	46.02	-4.99	0-360	297	V
9	36.0625	47.36	Pk	23	-42.9	10.5	37.96	40	-2.04	0-360	97	V
Radiated Emission Data												
Test Frequency (MHz)	Meter Reading (dBuV)	Detector	Antenna Factor dB/m	Path Factor dB	10m to 3m Factor dB	Level @ 3m dBuV/m	Limit 47 CFR 15.209 dBuV/m 3m	Margin (dB)	Azimuth [Degs]	Height [cm]	Polarity	
39.1785	42.28	Qp	20.7	-42.7	10.5	30.78	40	-9.22	9	386	H	
168.71	43.25	Qp	17.5	-41.8	10.5	29.45	43.52	-14.07	0	307	H	
498.724	46.03	Qp	23.8	-41.3	10.5	39.03	46.02	-6.99	23	169	H	
39.2405	51.1	Qp	20.6	-42.7	10.5	39.5	40	-0.5	119	100	V	
64.998	52.6	Qp	13.8	-42.6	10.5	34.3	40	-5.7	286	222	V	
36.2128	43.01	Qp	22.9	-42.9	10.5	33.51	40	-6.49	119	100	V	
485.6575	45.97	Qp	23.8	-41.4	10.5	38.87	46.02	-7.15	187	303	V	
Pk - Peak detector												
Qp - Quasi-Peak detector												

TX Data for 13.34MHz



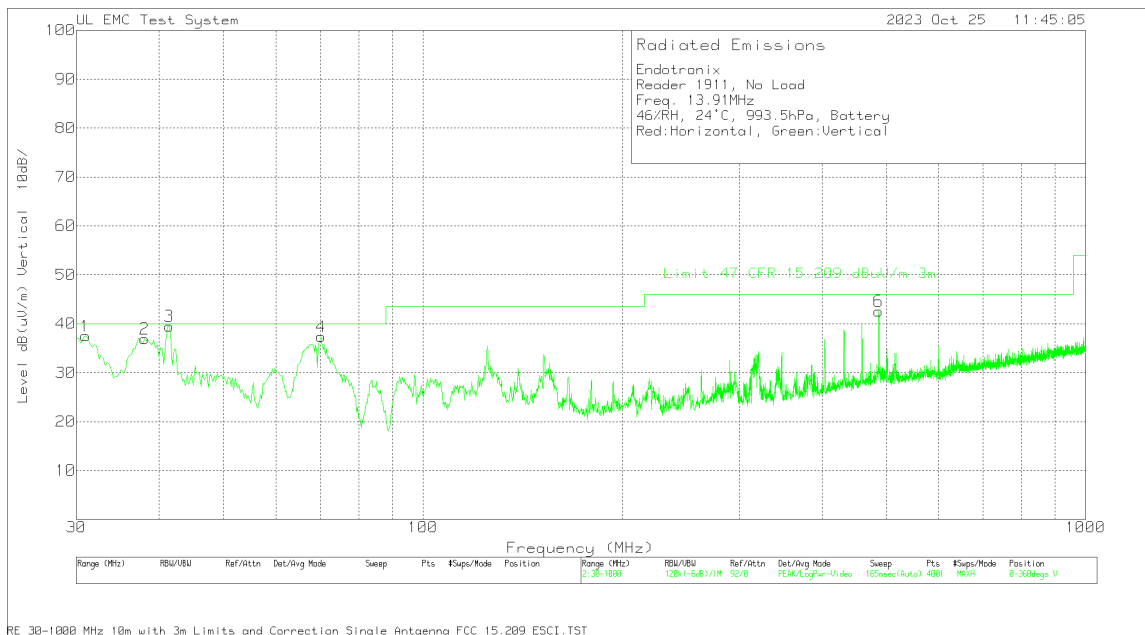
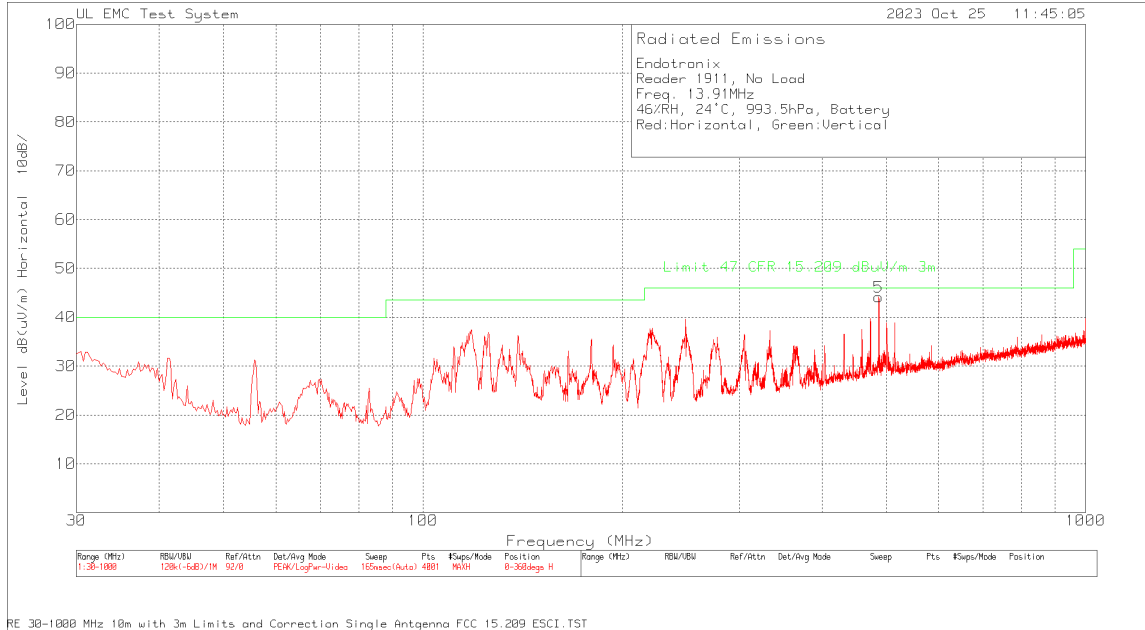
Endotronic												
Reader 1904, No Load												
Freq. 13.34MHz												
46%RH, 24°C, 993.5hPa, Battery												
Red:Horizontal, Green:Vertical												
Trace MArkers												
Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	Antenna Factor dB/m	Path Factor dB	10m to 3m Factor dB	Level @ 3m dBuV/m	Limit 47 CFR 15.209 dBuV/m 3m	Margin (dB)	Azimuth [Degs]	Height [cm]	Polarity
6	39.7	45.68	Pk	20.2	-42.7	10.5	33.68	40	-6.32	0-360	299	H
7	106.63	49.34	Pk	17.8	-42.1	10.5	35.54	43.52	-7.98	0-360	299	H
8	133.0625	47.87	Pk	19.8	-41.7	10.5	36.47	43.52	-7.05	0-360	399	H
9	167.255	49.9	Pk	17.6	-41.8	10.5	36.2	43.52	-7.32	0-360	299	H
10	265.71	51.95	Pk	18.9	-41.7	10.5	39.65	46.02	-6.37	0-360	299	H
11	495.115	49.42	Pk	23.8	-41.2	10.5	42.52	46.02	-3.5	0-360	97	H
1	37.5175	49.63	Pk	21.9	-42.8	10.5	39.23	40	-0.77	0-360	97	V
2	39.7	54	Pk	20.2	-42.7	10.5	42	40	2	0-360	97	V
3	66.1325	55.8	Pk	13.9	-42.6	10.5	37.6	40	-2.4	0-360	297	V
4	93.2925	52.67	Pk	14.3	-42.3	10.5	35.17	43.52	-8.35	0-360	197	V
5	495.115	50.74	Pk	23.8	-41.2	10.5	43.84	46.02	-2.18	0-360	297	V
Radiated Emission Data												
Test Frequency (MHz)	Meter Reading (dBuV)	Detector	Antenna Factor dB/m	Path Factor dB	10m to 3m Factor dB	Level @ 3m dBuV/m	Limit 47 CFR 15.209 dBuV/m 3m	Margin (dB)	Azimuth [Degs]	Height [cm]	Polarity	
495.1673	46.51	Qp	23.8	-41.2	10.5	39.61	46.02	-6.41	20	170	H	
37.5175	44.93	Qp	21.9	-42.8	10.5	34.53	40	-5.47	123	100	V	
39.8994	49.77	Qp	20.1	-42.7	10.5	37.67	40	-2.33	125	100	V	
66.3058	52.05	Qp	13.9	-42.5	10.5	33.95	40	-6.05	287	233	V	
495.15175	46.44	Qp	23.8	-41.2	10.5	39.54	46.02	-6.48	181	305	V	
Pk - Peak detector												
Qp - Quasi-Peak detector												

TX Data for 13.62MHz



Endotronix												
Reader 1911, No Load												
Freq. 13.62MHz												
46%RH, 24°C, 993.5hPa, Battery												
Red:Horizontal, Green:Vertical												
Trace MArkers												
Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	Antenna Factor dB/m	Path Factor dB	10m to 3m Factor dB	Level @ 3m dBuV/m	Limit 47 CFR 15.209 dBuV/m 3m	Margin (dB)	Azimuth [Degs]	Height [cm]	Polarity
4	40.67	45.09	Pk	19.5	-42.6	10.5	32.49	40	-7.51	0-360	399	H
5	115.1175	48.12	Pk	19.4	-41.8	10.5	36.22	43.52	-7.3	0-360	399	H
6	125.545	47.52	Pk	20.1	-41.7	10.5	36.42	43.52	-7.1	0-360	399	H
7	135.9725	47.63	Pk	19.6	-41.8	10.5	35.93	43.52	-7.59	0-360	399	H
8	175.985	51.79	Pk	17.1	-41.6	10.5	37.79	43.52	-5.73	0-360	299	H
9	216.4825	52.91	Pk	16.6	-41.6	10.5	38.41	46.02	-7.61	0-360	399	H
10	298.4475	51	Pk	19.4	-41.8	10.5	39.1	46.02	-6.92	0-360	200	H
11	505.0575	47.47	Pk	23.7	-41.1	10.5	40.57	46.02	-5.45	0-360	100	H
1	38.4875	49.71	Pk	21.2	-42.8	10.5	38.61	40	-1.39	0-360	97	V
2	40.67	53.17	Pk	19.5	-42.6	10.5	40.57	40	0.57	0-360	97	V
3	68.8	54.87	Pk	14.1	-42.6	10.5	36.87	40	-3.13	0-360	197	V
Radiated Emission Data												
Test Frequency (MHz)	Meter Reading (dBuV)	Detector	Antenna Factor dB/m	Path Factor dB	10m to 3m Factor dB	Level @ 3m dBuV/m	Limit 47 CFR 15.209 dBuV/m 3m	Margin (dB)	Azimuth [Degs]	Height [cm]	Polarity	
38.4875	44.88	Qp	21.2	-42.8	10.5	33.78	40	-6.22	119	100	V	
40.67	49.1	Qp	19.5	-42.6	10.5	36.5	40	-3.5	119	100	V	
68.8601	50.06	Qp	14.1	-42.6	10.5	32.06	40	-7.94	278	256	V	
Pk - Peak detector												
Qp - Quasi-Peak detector												

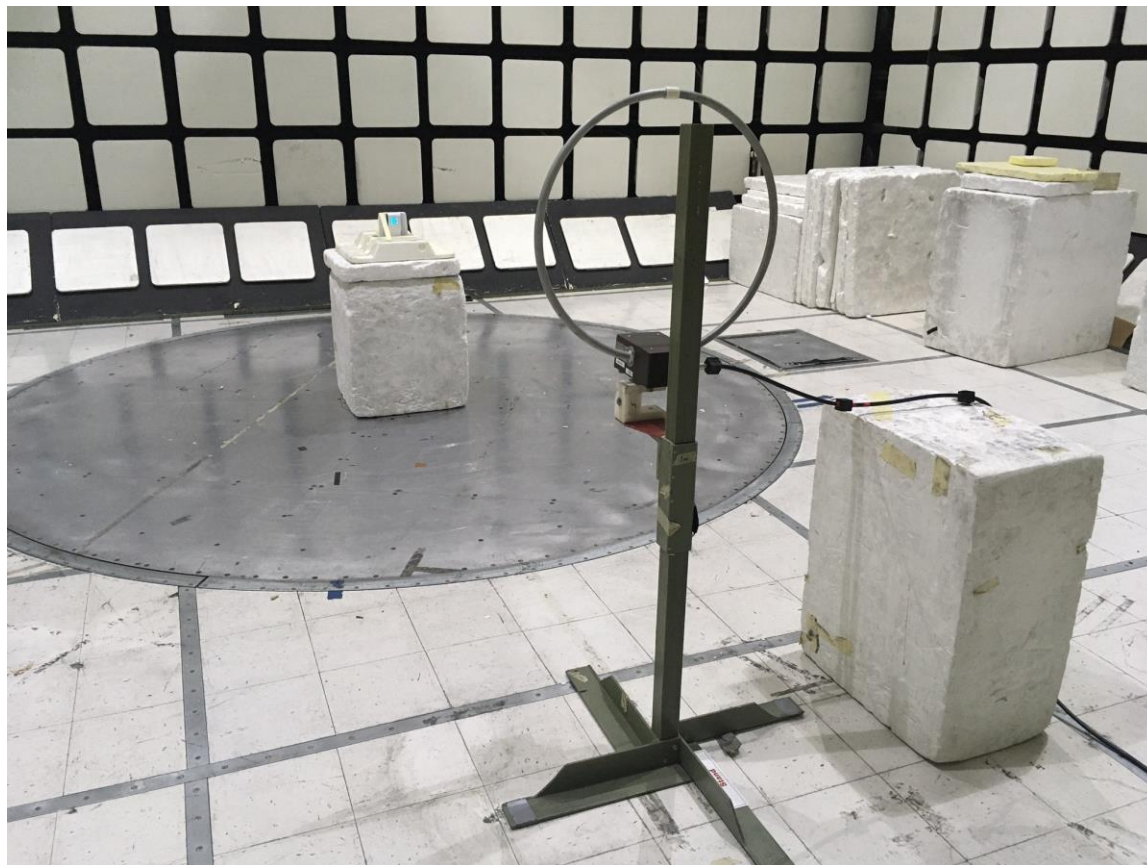
TX Data for 13.90MHz



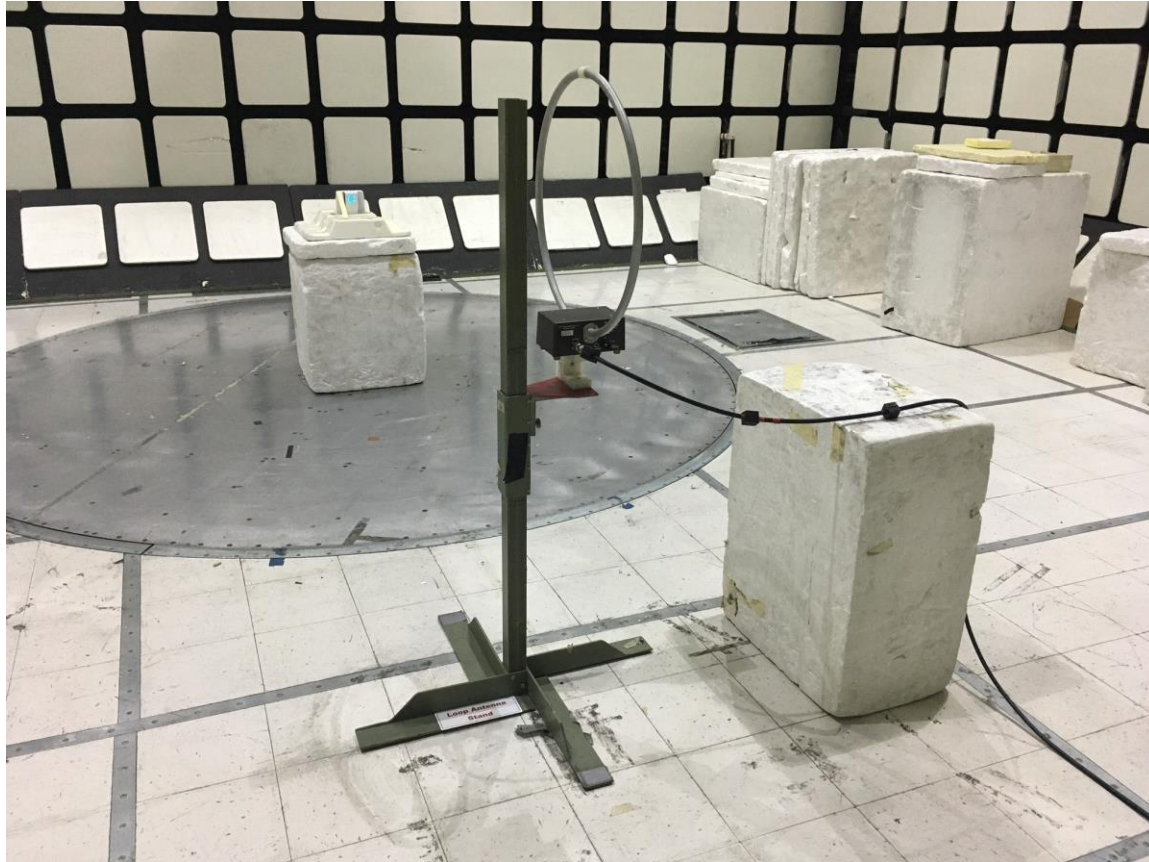
Endotronix												
Reader 1911, No Load												
Freq. 13.91MHz												
46%RH, 24°C, 993.5hPa, Battery												
Red:Horizontal, Green:Vertical												
Trace MArkers												
Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	Antenna Factor dB/m	Path Factor dB	10m to 3m Factor dB	Level @ 3m dBuV/m	Limit 47 CFR 15.209 dBuV/m 3m	Margin (dB)	Azimuth [Degs]	Height [cm]	Polarity
5	487.355	51.13	Pk	23.8	-41.3	10.5	44.13	46.02	-1.89	0-360	97	H
1	30.97	43.1	Pk	26.7	-42.8	10.5	37.5	40	-2.5	0-360	99	V
2	38.0025	47.65	Pk	21.5	-42.7	10.5	36.95	40	-3.05	0-360	99	V
3	41.3975	52.83	Pk	18.9	-42.7	10.5	39.53	40	-0.47	0-360	99	V
4	70.255	55.25	Pk	14.2	-42.6	10.5	37.35	40	-2.65	0-360	299	V
6	487.355	49.6	Pk	23.8	-41.3	10.5	42.6	46.02	-3.42	0-360	399	V
Radiated Emission Data												
Test Frequency (MHz)	Meter Reading (dBuV)	Detector	Antenna Factor dB/m	Path Factor dB	10m to 3m Factor dB	Level @ 3m dBuV/m	Limit 47 CFR 15.209 dBuV/m 3m	Margin (dB)	Azimuth [Degs]	Height [cm]	Polarity	
487.355	47.9	Qp	23.8	-41.3	10.5	40.9	46.02	-5.12	22	156	H	
30.97	36.87	Qp	26.7	-42.8	10.5	31.27	40	-8.73	108	100	V	
38.095	43.03	Qp	21.4	-42.7	10.5	32.23	40	-7.77	124	100	V	
41.39	48.75	Qp	18.9	-42.7	10.5	35.45	40	-4.55	122	100	V	
70.2954	51.07	Qp	14.2	-42.6	10.5	33.17	40	-6.83	283	220	V	
487.468603	45.57	Qp	23.8	-41.2	10.5	38.67	46.02	-7.35	129	349	V	
Pk - Peak detector												
Qp - Quasi-Peak detector												

10. SETUP PHOTOS

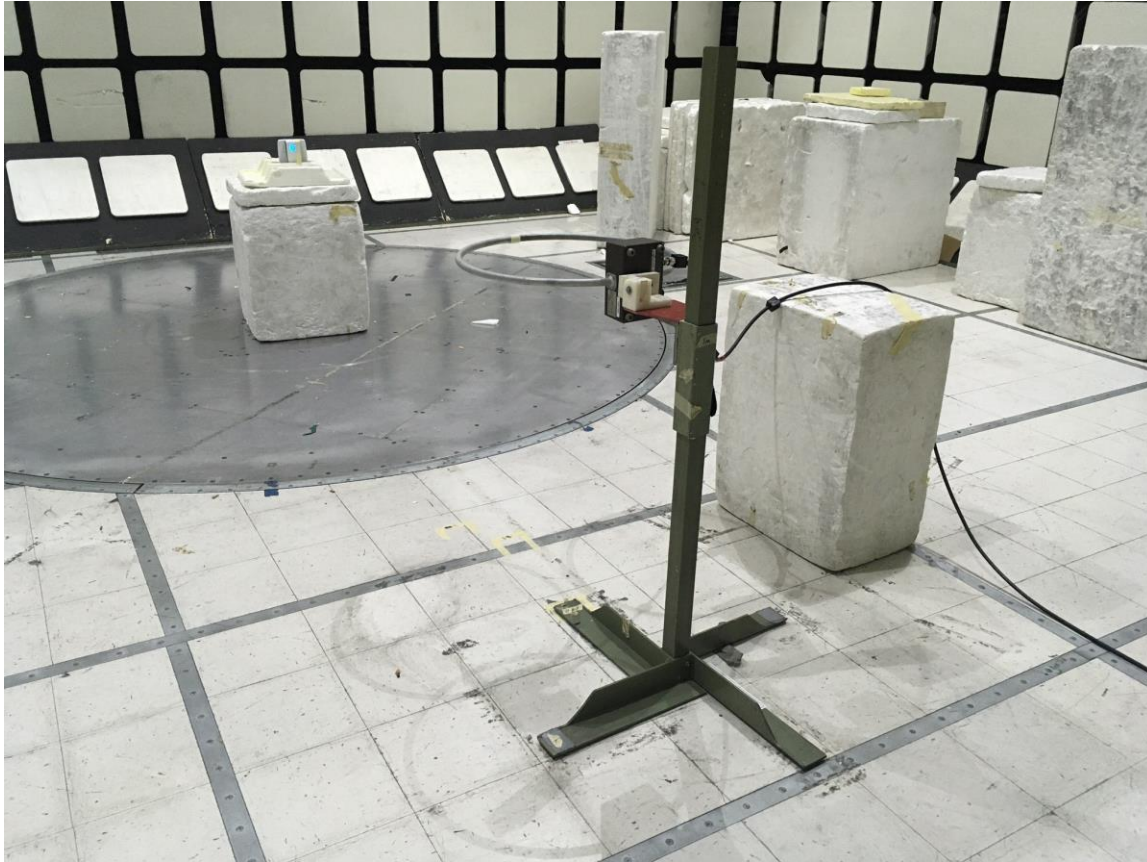
RADIATED EMISSION BELOW 30 MHz (Hx)



RADIATED EMISSION BELOW 30 MHz (Hy)



RADIATED EMISSION BELOW 30 MHz (Hz)



RADIATED EMISSION ABOVE 30 MHz



END OF TEST REPORT