Radio Test Report

Applicable Requirements:
47 CFR PART 2, SUBPART J, PARAGRAPH 2.906 Part 15, Subpart C – Intentional Radiators

Equipment Under Test:	Bluetooth Dive Gauge
Model Numbers:	ProplusX | 604.1029.07 i750TC | NS118111 i550 | NS911279
Serial Number:	N/S
Prepared for:	Pelagic Pressure Systems 2002 Davis St San Leandro, CA 94577
Tested by:	Bob Cole
Prepared by:	Amy Jones
Verified and Approved by:	Bob Cole Authorized Signatory

EMCE Engineering, Inc.
44366 S. Grimmer Blvd.
Fremont, CA 94538

NVLAP Testing Lab Code 200092-0

ACCREDITED BY THE NATIONAL VOLUNTARY LABORATORY ACCREDITATION PROGRAM FOR THE SPECIFIC SCOPE OF ACCREDITATION UNDER LAB CODE #: 200092-0

Note:
- This report or certificate does not represent endorsement by NVLAP or any agency of the US Government.
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Test Report Revision History

Report Format	Report Version	Description	Issue Date
EMCE-TRF-FCC_C	1.0	FCC 15.247	*8/22/2016*

ADMINISTRATIVE INFORMATION

Test Laboratory: Facility No. registered through NVLAP:	EMCE Engineering 44366 S. Grimmer Blvd. Fremont, CA 94538 USA Tel : 510-490-4307, Fax : 510-490-3441
	NVLAP Lab Code: 200092-0
	Test Site: FCC : US5291
Applicant Name :	Pelagic Pressure Systems
Applicant Contact Name :	
Application Purpose :	FCC – C2PC : Added Host to the LMA
EUT Description :	Bluetooth Dive Gauge
Product Name :	Dive Gauge
Model Numbers covered by this report :	ProplusX | 604.1029.07
	i750TC | NS118111
	i550 | NS911279
Serial Numbers :	N/S
Applied Requirements :	47 CFR PART 2, SUBPART J, PARAGRAPH 2.906 Part 15.247
Measurement Distance:	*10 m up to 1 GHz, 3 m above 1 GHz*
Classification of EUT	CLASS B
Maximum Operating Frequency	*Per EN 55022, Radiated Emissions were scanned to a range covering 30 MHz - 25 GHz.
Adaptive / Non-Adaptive?	
Type of Equipment	Class B
Testing Configuration :	The EUT model names ProplusX | 604.1029.07, i750TC | NS118111, and i550 | NS911279 were set up per the applicable specification during EMI testing.
Operating Condition (Temp) :	Ambient
Supply Power to EUT : (If Battery supply details)	Battery
Supply Voltage :	
Receipt of EUT :	8/11/2016
Date of Testing :	8/11/2016
Tested By :	Mashood Danmole
Approved By (CTO) :	Bob Cole
Test Report Number :	4240-1
Test Report Issue Date :	8/22/2016
Test Report Prepared By:	Amy Jones
Test Report Reviewed By:	Bob Cole

Additional Items Provided:

Spare Batteries	
Battery Charging Device	
External Power Supply or AC Adapter	
Test Jig of Interface Box	
RF Test Fixture (for integrated Antennas)	
Host System	
User Manual	
Technical Documentation	

TABLE OF CONTENTS

LIST OF ATTACHMENTS

Accreditation

EMCE Engineering, has been placed on the Federal Communications Commission's list of recognized facilities for Parts 15 and 18 DoC approvals. Per the request of EMCE Engineering, the facility has been added to the list of those who perform Measurement Services for the public on a fee basis. This list is published periodically and is also available on the FCC Website. Additionally, EMCE Engineering, has been approved by the National Institute for Standards and Technology under the NVLAP program (Lab Code 200092-0).

Disclaimer

EMCE Engineering, Inc., assumes no responsibility for the continuing validity of test data when the Equipment under Test is not under the continuous physical control of EMCE. The signature below attests to the fact that all measurements reported herein were performed by myself or were made under my supervision, and are correct to the best of my knowledge and belief as of the date specified. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them. Tests were conducted by qualified EMCE Engineering, Inc. personnel utilizing test equipment maintained in a "current" state of calibration with traceability to NIST.

- This report or certificate does not represent endorsement by NVLAP or any agency of the US Government.
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Modifications

There were no modifications installed by EMCE Engineering. The manufacturer may declare the EUT as complying with the CE Mark EMC Directive requirements.

Any modifications installed previous to testing by the Manufacturer will be incorporated in each production model sold or leased.

Statement of Compliance

We, EMCE Engineering, declare under our sole responsibility that the product tested complies with the following listed standards:

Equipment Under Test:	Bluetooth Dive Gauge
Model Numbers:	ProplusX | 604.1029.07 i750TC | NS118111 i550 | NS911279
Serial Number:	N/S
Report Number:	4240-1
Test Date:	8/11/2016
Company:	Pelagic Pressure Systems
Street Address:	2002 Davis St San Leandro, CA 94577

This Statement of Compliance is based upon compliance of the product with the following FCC Rules:

47 CFR PART 2, SUBPART J, PARAGRAPH 2.906 *Part 15, Subpart C*	*Intentional Radiators*

Issued by Test Laboratory:

Lab Code: 200092-0
EMCE Engineering
44366 S. Grimmer Blvd.
Fremont, CA 94538

Verified By:

Bob Cole
Authorized Signatory

Test Location

Test Facility

The antenna conducted emissions, radiated emissions, and EMC Immunity tests described herein were performed at:

Electro Magnetic Controlled Environment
EMCE Engineering, Inc.
44366 S. Grimmer Blvd.
Fremont, CA 94538

This laboratory has one semi-anechoic chamber, one electromagnetic shielded enclosure, one conducted immunity test station and a 3-meter and 10-meter Open Area Test Site (OATS). A computer controlled spectrum analyzer with quasi-peak adapter, and printer were used for gathering and recording test data. Figure 1 shows the test site layout for conducted and radiated measurements.

Description of Open Area Test Site (OATS)

The 3 and 10 meter site is located out-of-doors in an open field whose size is 95 feet long by 65 feet wide. The dimensions of the test area are 68 x 28 ft. The description of the 3 and 10-meter site is on file with the FCC according to the requirements of Part 2.948.

Site Attenuation

The site attenuation for radiated measurements has been determined for this test site using the method described in ANSI C63.4 Paragraph 5.4.6 and sub paragraphs. The site attenuation is measured annually.

Ground Plane (Ground Screen)

The site has a 1900 square foot floor area of poured reinforced concrete, 6 to 8 inches thick. A (68ft x 28ft) 24 gauge galvanized ¼ inch wire mesh ground plane is centered on the test area with its long dimension along the major axis of the test site. The antenna mast and turntable are located 3/10 meters apart on the centerline of the major axis. The ground plane is connected to a nine-foot long earth ground rod at each end of the ground plane.

Input Power for EUT

Electricity for the EUT is provided through buried power lines in metallic conduit with an outlet box placed near the EUT. Power for the EUT is taken from the outlet box of either of two “shielded enclosure” quality power line filters located on the ground plane near the EUT. The filters are electrically bonded to the ground plane.

Accessory Equipment Precautions

Care was taken that accessory equipment or adjacent equipment did not produce unacceptable interference so as to contaminate the final test data. The EMI receiver and its associated computer, printer and plotter were located greater than 15 meters away from the EUT during testing and were powered from a separately filtered power source.

Ambient Interference

Ambient interference from radio and television stations, vehicles, mobile radio, etc. was present at the open test site during testing. Therefore preliminary radiated emissions testing was performed in the semi-anechoic chamber to identify all EUT related emissions. Care was taken to assure that ambient interference did not overload the measurement receiver or mask emissions from the EUT.

Personnel

All testing was performed by EMCE Engineering personnel who are properly trained for the instruments and procedures used.

Use of Interference Measurement Equipment

All of the emission measurements and field strength measurements were performed utilizing various EMC measurement equipment. The Emissions Measurement Lab utilizes the following basic instruments:

1. Toshiba Satellite Laptop Computer
2. EMITest v4.1 measurement software
3. Rohde & Schwarz FSV40 Spectrum Analyzer
4. HP 8477F Pre Amp
5. HP 8449B Pre Amp
6. Sunol Sciences JB-6 Hybrid Antenna
7. EMCO 3110 Horn Antenna

Test results are recorded on tabular data sheets and show final corrected values compared to the specification limit. Sample calculations show how the antenna factors, cable losses, amplifier gain, etc. are combined in the automatic analyzer program to produce the final corrected values shown on the graphs and data sheets.

Calibration of Measuring Equipment

The EMI Receiver (spectrum analyzer) is calibrated by an ISO 17025 Accredited calibration laboratory on an annual basis. The laboratory provides certification accredited to ISO 17025. Antenna factors are measured on an annual basis by an ISO 17025 Accredited Antenna Calibration Facility. Cable losses as well as amplifier gains are swept at least every month to verify accurate values.

Equipment Calibration Data

Equipment	Serial Number	Last Calibration Date	Calibration Due Date
Omega-IBTHXBP	14490199	7/8/2016	7/8/2017
Schaffner-NSG435	5892	7/8/2016	7/8/2017
Fluke-87	64920001	6/28/2016	6/28/2017
Sunol Sciences-JB1	A061416	6/27/2016	6/27/2017
EMCO-3816-2	9809-1089	8/12/2016	8/12/2017
Rohde & Schwarz-FSV40	101424	6/20/2016	6/20/2017
Sunol Sciences-JB6	A042610	6/15/2016	6/15/2017
A. H. Systems-SAS-571	236	6/13/2016	6/13/2017
Com-Power-C50E	561034	2/22/2016	2/22/2017
Com-Power-M225E	511107	2/22/2016	2/22/2017
Com-Power-T8SE	511402	2/22/2016	2/22/2017

MEASUREMENT UNCERTAINTY

Measurement Uncertainty Budget
Conducted Emissions 150 kHz – 30 MHz
Per CISPR 16-4-2

Input Quantity	*Uncertainty of x_1*		*$u(x_i)$ dB*	*c_i*	*$c_1 u(x_i)$ dB*
	dB	*Probability Distribution Function*			
Receiver Reading	*+/- 0.1*	*K = 1*	*0.1*	*1*	*0.1*
Attenuation: AMN – Receiver	*+/- 0.1*	*K = 2*	*0.05*	*1*	*0.05*
AMN Voltage Division Factor	*+/- 0.2*	*K = 2*	*0.1*	*1*	*0.1*
Receiver Corrections					
Sine Wave Voltage	*+/- 1.0*	*K = 2*	*0.5*	*1*	*0.5*
Pulse Amplitude Response	*+/- 1.5*	*Rectangular*	*0.87*	*1*	*0.87*
Pulse Rep Rate Response	*+/- 1.5*	*Rectangular*	*0.87*	*1*	*0.87*
Noise Floor Proximity	*+/- 0.0*		*0.0*	*1*	*0.0*
Mismatch: AMN – Receiver	*+/- 0.75*	*U-shaped*	*0.53*	*1*	*0.53*
AMN Impedance	*+/- 2.65*	*Triangular*	*1.08*	*1*	*1.08*
Total Measurement uncertainty – Conducted Emissions 150 kHz – 30 MHz $2u_c(P)$ = 4.45 dB					*4.45 dB*

Measurement Uncertainty Budget
Radiated Emissions @ 10 Meters

Input Quantity	*Uncertainty of x_i*		*U(x) dB*	*C_i*	*C_i u (x_i) dB*
	dB	*Probability Distribution Function*			
Receiver Reading	*+/- 0.1*	*K = 1*	*0.1*	*1*	*0.1*
Attenuation, Antenna - receiver	*+/- 0.1*	*K = 2*	*0.05*	*1*	*0.05*
Antenna Factor	*+/- 2.0*	*K = 2*	*1.0*	*1*	*1.0*
Receiver Corrections					
Sine Wave Voltage	*+/- 1.0*	*K = 1*	*0.5*	*1*	*0.5*
Pulse Amplitude Response	*+/- 1.5*	*Rectangular*	*0.87*	*1*	*0.87*
Pulse Rep Rate Response	*+/- 1.5*	*Rectangular*	*0.87*	*1*	*0.87*
Noise Floor Proximity	*+/- 0.5*	*K = 2*	*0.25*	*1*	*0.25*
Mismatch Antenna – Receiver	*+/- 0.9*	*U shaped*	*0.67*	*1*	*0.67*
Antenna Corrections					
AF Freq Interpolation	*+/- 0.3*	*Rectangular*	*0.17*	*1*	*0.17*
AF Height Deviations	*+/- 0.5*	*Rectangular*	*0.29*	*1*	*0.29*
Balance	*+/- 0.3*	*Rectangular*	*0.17*	*1*	*0.17*
Site Corrections					
Site Imperfections	*+/- 3.0*	*Rectangular*	*1.22*	*1*	*0.82*
Separation distance	*+/- 0.1*	*Rectangular*	*0.06*	*1*	*0.06*
Table Height	*+/- 0.1*	*K = 2*	*0.05*	*1*	*0.05*
Total Measurement Uncertainty - Radiated Emissions @ 10 Meters					*5.87*

ANSI C63.4-2009, Section 10.2.8.2 states:
"For ITE unintentional radiators, the Frequency and Amplitude of the six highest radiated emissions relative to the limit and independent of antenna polarization shall be reported, unless such emissions are more than 20 dB below the limit. If less than the specified number (less than six) of emissions are within 20 dB of the limit, the noise level of the measuring instrument at representative frequencies shall be reported.

Sample Calculations

Conducted Spurious Emissions

Measurements are compared directly to the applicable limits. The calculation is a s follows:

$$R_r - S = M$$

Where:

R_r = Measured value in dBm
S = Specification Limit
M = Margin

Radiated Spurious Emissions

Receiver readings are compared directly to a converted specification limit (dB form), the conversion uses the effective radiated power limit specified in the standard to calculate the expected field strength in free space using the following formula:

$$E = \sqrt{30*P*G} / d$$

Where:

E = Field Strength in V/M
P = Power in Watts
G = Gain of antenna in dB
D = Distance in meters

The field strength limit is then converted to decibel form (dBuV/M) and the margin of a given peak is calculated as follows:

$$M = R_c - L_s$$

Where:

M = Margin
R_c = Corrected Reading in dBuV/M
L_s = Calculated Specification Limit in dBuV/M

When substitution measurements are required (all signals with <6 dB margin relative to the Specification limit) the margin of the emission relative to the effective radiated power is calculated as follows:

$$P_s - S = M$$

Where:

P_s = ERP determined from antenna substitution (dBm)
S = Specification limit in dBm
M = Margin

PREPARATION OF EUT FOR TEST

Setup of EUT

Power to EUT: Battery
Grounding of EUT: N/A
Software: provided by Pelagic Pressure Systems

Orientation of EUT: All measurements the EUT was evaluated in the X, Y, and Z orthogonal axes.

Support Equipment				
Description	*Model Number*	*Serial Number*	*Manufacturer*	*Power Cable Description*
Printer	*C62*	*TH6AJ14084*	*Epson*	*Unshielded / 1 Meter*
Lap Top PC	*Aspire One 725-0687*	*24100952376*	*Acer*	Unshielded / 1 Meter

Cable Description				
From	*To*	*Length (Meters)*	*Shielded (Y/N)*	*Ferrite Loaded (Y/N)*
Printer	*Laptop PC*	*1m*	*Y*	*N*
Laptop PC	*Power*	*1.5*	*Y*	*N*
Printer	*Power*	*1.5*	*N*	*N*

TEST SUMMARY

The electromagnetic compatibility requirements on tested model name MDL# for this test are listed below. All results listed in this report are related exclusively to the above-mentioned model as the equipment under test, and confers no endorsement or certification of any other component, host, or subsystem used in the testing configuration.

Specification	Description	Test Results	Comments
EN55022:2010 CLASS B	Radiated Emission	Passed	-

TEST MODE JUSTIFICATION

Test Standard	Configuration Info	Comments
EN 55022 Class B Radiated Emissions		

ATTACHMENT 1

NVLAP ISO 17025 Accreditation Certificate

United States Department of Commerce
National Institute of Standards and Technology

NVLAP®

Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 200092-0

Universal Compliance Labs dba EMCE Engineering
Fremont, CA

is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for:

Electromagnetic Compatibility & Telecommunications

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).

2015-12-22 through 2016-12-31
Effective Dates

For the National Voluntary Laboratory Accreditation Program

ATTACHMENT 2

Measurement Data – Emission Test Results

Radiated Emissions
30 MHz – 1 GHz

Test Location: EMCE Engineering •44366 S. Grimmer Blvd • Fremont, CA 94538 •

Customer: **Pelagic Pressure**
Specification: **RADIATED**
Work Order #: **4240** Date: 8/11/2016
Test Type: **Radiated Scan** Time: 08:35:47
Equipment: **Dive Gauge** Sequence#: 3
Manufacturer: Palegic Pressure, Inc Tested By: Mashood Danmole
Model: **ProplusX | 604.1029.07**
S/N: N/A

***Test Equipment*:**

Function	S/N	Calibration Date	Cal Due Date	Asset #
FSV7-B160 Signal Analyzer	101468	01/28/2014	01/28/2017	N/A
HP 8447D PreAmp	2443A03587	04/06/2016	04/06/2017	008
Sunol Sciences JB6 Antenna	1090	08/19/2015	08/19/2017	701
EMITest Measurement Software	v4.01 Build 195	05/01/2014	05/01/2017	610

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
Dive Gauge*	Palegic Pressure, Inc	ProplusX | 604.1029.07	N/A

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

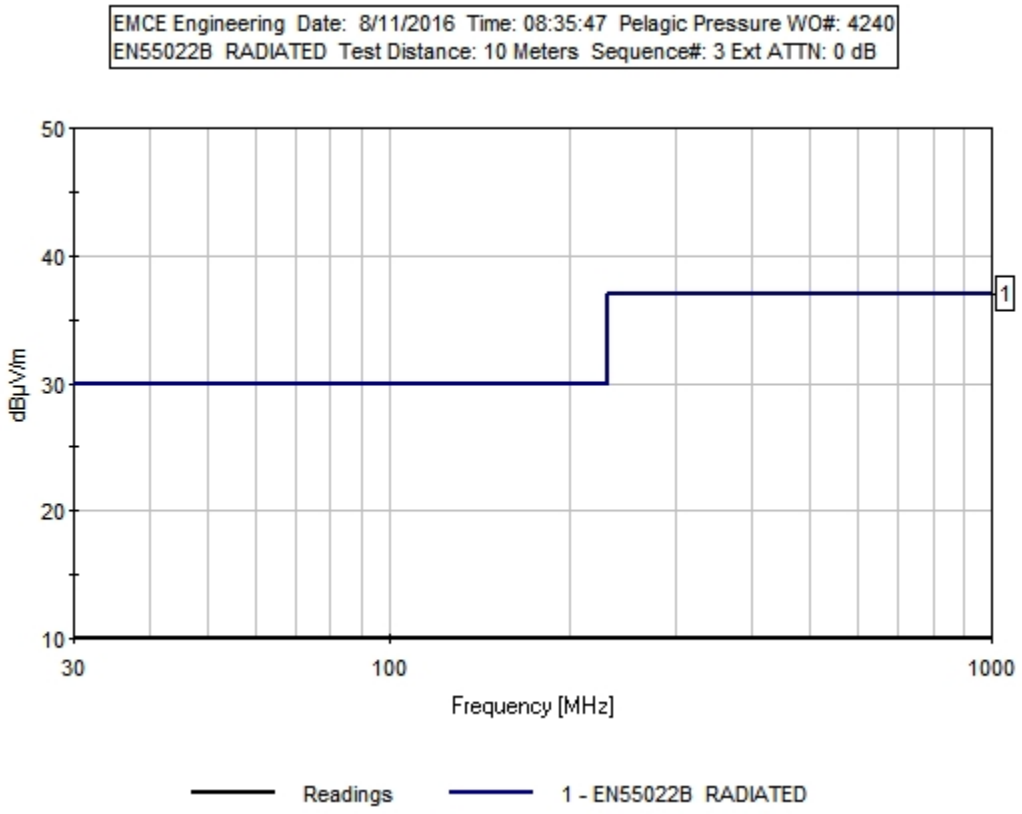
EUT Bluetooth turned ON. | No Spurious EUT Signals Found.

Transducer Legend:

Ext Attn: 0 dB

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	dB	dB	dB	dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant


EMCE Engineering Date: 8/11/2016 Time: 08:35:47 Pelagic Pressure WO#: 4240
EN55022B RADIATED Test Distance: 10 Meters Sequence#: 3 Ext ATTN: 0 dB
50
40
30
20
10
dBµV/m
30
100
1000
Frequency [MHz]
1
Readings
1 - EN55022B RADIATED

Radiated Emissions
1 - 25 GHz

Test Location: EMCE Engineering •44366 S. Grimmer Blvd • Fremont, CA 94538 •

Customer: **Pelagic Pressure, Inc**
Specification: **FCC 15.247 Peak Limits 1 - 25 GHz**
Work Order #: **4240** Date: 8/11/2016
Test Type: **Radiated Scan** Time: 08:41:55
Equipment: **Dive Gauge** Sequence#: 5
Manufacturer: Palegic Pressure, Inc Tested By: Mashood Danmole
Model: **ProplusX | 604.1029.07**
S/N: N/A

***Test Equipment*:**

Function	S/N	Calibration Date	Cal Due Date	Asset #
FSV7-B160 Signal Analyzer	101468	01/28/2014	01/28/2017	N/A
HP 8449B Preamp	3008A02190	05/15/2015	05/15/2016	749
A.H. Systems SAS-200/571 Horn	236	06/14/2016	06/14/2017	609
EMITest Measurement Software	v4.01 Build 195	05/01/2014	05/01/2017	610

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
Dive Gauge*	Palegic Pressure, Inc	ProplusX | 604.1029.07	N/A

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

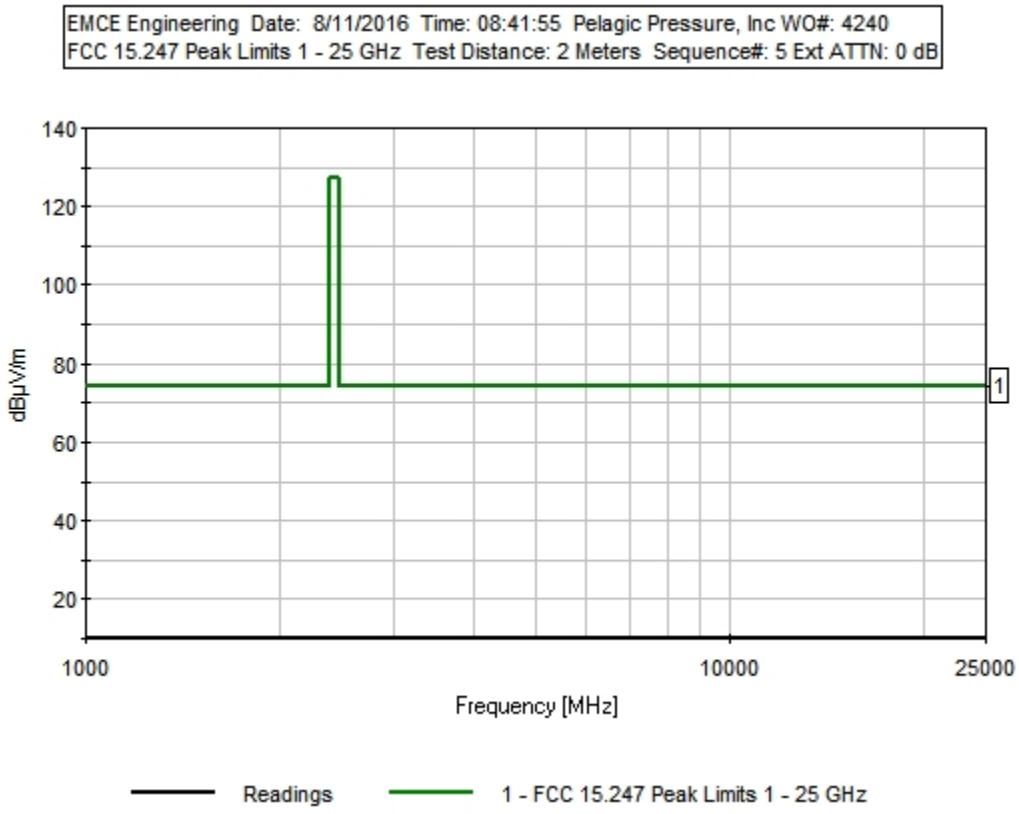
EUT Bluetooth turned ON. | No Spurious EUT Signals Found.

Transducer Legend:

Ext Attn: 0 dB

Measurement Data: Reading listed by margin. Test Distance: 2 Meters

#	Freq	Rdng					Dist	Corr	Spec	Margin	Polar
	MHz	dBµV	dB	dB	dB	dB	Table	dBµV/m	dBµV/m	dB	Ant


EMCE Engineering Date: 8/11/2016 Time: 08:41:55 Pelagic Pressure, Inc WO#: 4240
FCC 15.247 Peak Limits 1 - 25 GHz Test Distance: 2 Meters Sequence#: 5 Ext ATTN: 0 dB
140
120
100
80
60
40
20
dBµV/m
1
1000
10000
25000
Frequency [MHz]
Readings
1 - FCC 15.247 Peak Limits 1 - 25 GHz

Radiated Emissions
30 MHz – 1 GHz

Test Location: EMCE Engineering •44366 S. Grimmer Blvd • Fremont, CA 94538 •

Customer: **Pelagic Pressure, Inc**
Specification: **RADIATED**
Work Order #: **4240** Date: 8/11/2016
Test Type: **Radiated Scan** Time: 08:08:48
Equipment: **Dive Gauge** Sequence#: 3
Manufacturer: Palegic Pressure, Inc Tested By: Mashood Danmole
Model: **i750TC | NS118111**
S/N: N/A

***Test Equipment*:**

Function	S/N	Calibration Date	Cal Due Date	Asset #
FSV7-B160 Signal Analyzer	101468	01/28/2014	01/28/2017	N/A
HP 8447D PreAmp	2443A03587	04/06/2016	04/06/2017	008
Sunol Sciences JB6 Antenna	1090	08/19/2015	08/19/2017	701
EMITest Measurement Software	v4.01 Build 195	05/01/2014	05/01/2017	610

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
Dive Gauge*	Palegic Pressure, Inc	i750TC | NS118111	N/A

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

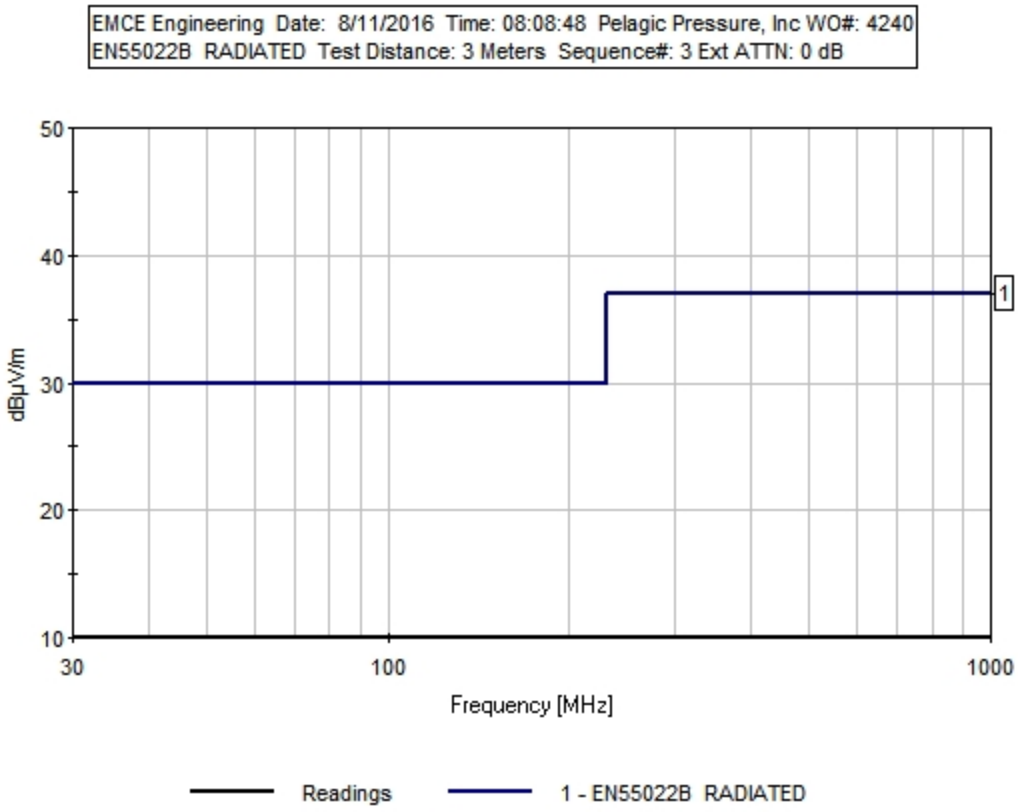
EUT Bluetooth turned ON. | No Spurious EUT Signals Found.

Transducer Legend:

Ext Attn: 0 dB

Measurement Data: Reading listed by margin. Test Distance: 3 Meters

#	Freq MHz	Rdng dBµV	dB	dB	dB	dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant


EMCE Engineering Date: 8/11/2016 Time: 08:08:48 Pelagic Pressure, Inc WO#: 4240
EN55022B RADIATED Test Distance: 3 Meters Sequence#: 3 Ext ATTN: 0 dB
50
40
30
20
10
dBµV/m
30
100
1000
Frequency [MHz]
1
Readings
1 - EN55022B RADIATED

Radiated Emissions
1 - 25 GHz

Test Location: EMCE Engineering •44366 S. Grimmer Blvd • Fremont, CA 94538 •

Customer: **Pelagic Pressure Systems, Inc**
Specification: **FCC 15.247 Peak Limits 1 - 25 GHz**
Work Order #: **4240** Date: 8/11/2016
Test Type: **Radiated Scan** Time: 08:14:34
Equipment: **Dive Gauge** Sequence#: 5
Manufacturer: Palegic Pressure Systems, Inc Tested By: Mashood Danmole
Model: **i750TC | NS118111**
S/N: N/A

***Test Equipment*:**

Function	S/N	Calibration Date	Cal Due Date	Asset #
FSV7-B160 Signal Analyzer	101468	01/28/2014	01/28/2017	N/A
HP 8449B Preamp	3008A02190	05/15/2015	05/15/2016	749
A.H. Systems SAS-200/571 Horn	236	06/14/2016	06/14/2017	609
EMITest Measurement Software	v4.01 Build 195	05/01/2014	05/01/2017	610

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
Dive Gauge*	Palegic Pressure Systems, Inc	i750TC | NS118111	N/A

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

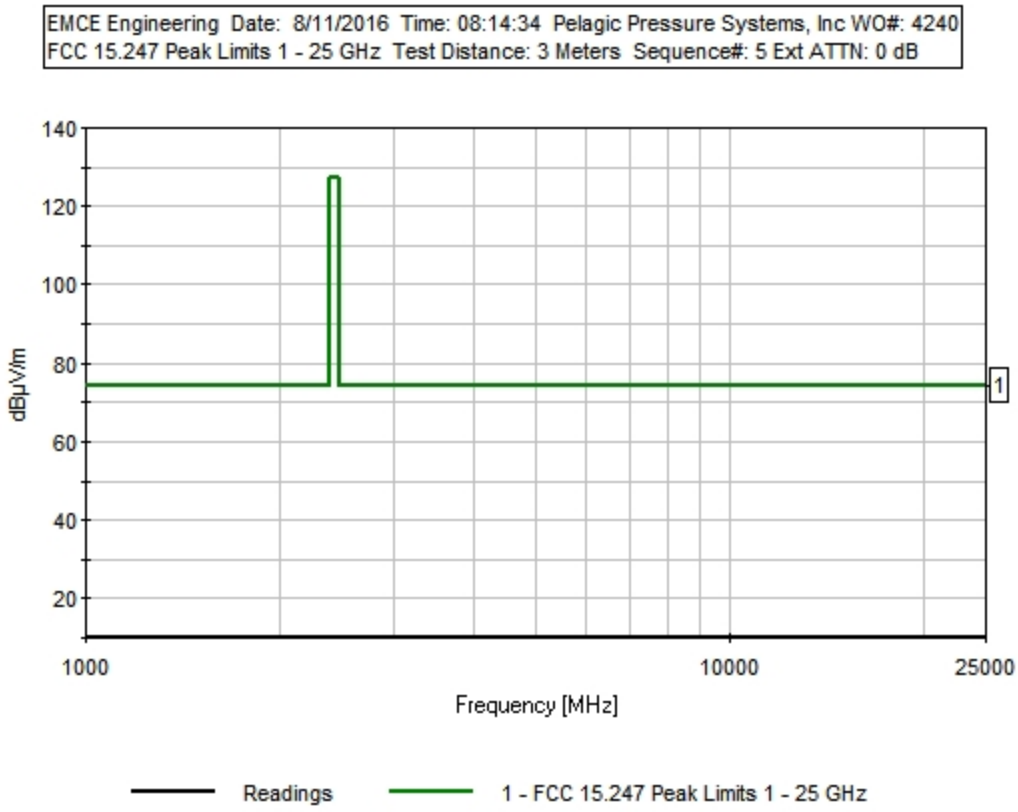
EUT Bluetooth turned ON. | No Spurious EUT Signals Found.

Transducer Legend:

Ext Attn: 0 dB

Measurement Data: Reading listed by margin. Test Distance: 3 Meters

#	Freq MHz	Rdng dBµV	dB	dB	dB	dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant


EMCE Engineering Date: 8/11/2016 Time: 08:14:34 Pelagic Pressure Systems, Inc WO#: 4240
FCC 15.247 Peak Limits 1 - 25 GHz Test Distance: 3 Meters Sequence#: 5 Ext ATTN: 0 dB
140
120
100
80
60
40
20
dBµV/m
1
1000
10000
25000
Frequency [MHz]
Readings
1 - FCC 15.247 Peak Limits 1 - 25 GHz

Radiated Emissions
30 MHz – 1 GHz

Test Location: EMCE Engineering •44366 S. Grimmer Blvd • Fremont, CA 94538 •

Customer: **Pelagic Pressure Systems, Inc**
Specification: **RADIATED**
Work Order #: **4240** Date: 8/11/2016
Test Type: **Radiated Scan** Time: 07:34:19
Equipment: **Dive Gauge** Sequence#: 3
Manufacturer: Palegic Pressure Systems, Inc Tested By: Mashood Danmole
Model: **i550 | NS911279**
S/N: N/A

***Test Equipment*:**

Function	S/N	Calibration Date	Cal Due Date	Asset #
FSV7-B160 Signal Analyzer	101468	01/28/2014	01/28/2017	N/A
HP 8447D PreAmp	2443A03587	04/06/2016	04/06/2017	008
Sunol Sciences JB6 Antenna	1090	08/19/2015	08/19/2017	701
EMITest Measurement Software	v4.01 Build 195	05/01/2014	05/01/2017	610

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
Dive Gauge*	Palegic Pressure Systems, Inc	i550 | NS911279	N/A

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

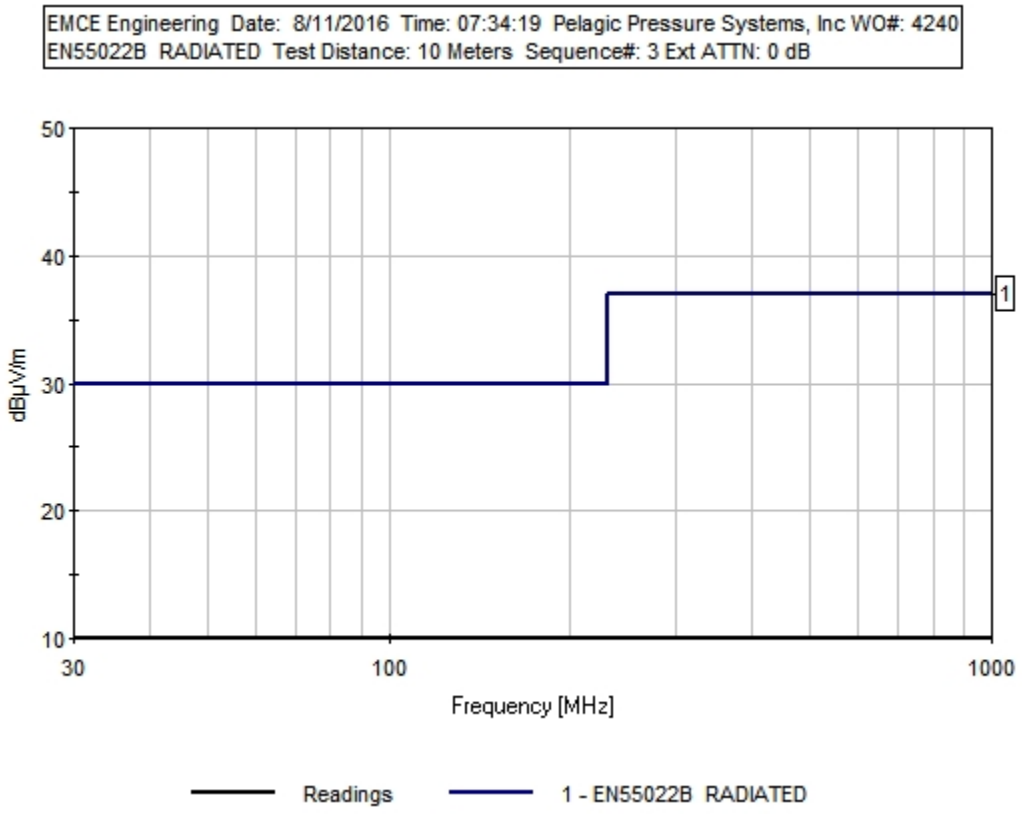
EUT Bluetooth turned ON. | No Spurious EUT Signals Found.

Transducer Legend:

Ext Attn: 0 dB

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	dB	dB	dB	dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant


EMCE Engineering Date: 8/11/2016 Time: 07:34:19 Pelagic Pressure Systems, Inc WO#: 4240
EN55022B RADIATED Test Distance: 10 Meters Sequence#: 3 Ext ATTN: 0 dB
50
40
30
20
10
dBµV/m
30
100
1000
Frequency [MHz]
1
Readings
1 - EN55022B RADIATED

Radiated Emissions
1 - 25 GHz

Test Location: EMCE Engineering •44366 S. Grimmer Blvd • Fremont, CA 94538 •

Customer: **Pelagic Pressure Systems, Inc**
Specification: **FCC 15.247 Peak Limits 1 - 25 GHz**
Work Order #: **4240** Date: 8/11/2016
Test Type: **Radiated Scan** Time: 07:53:46
Equipment: **Dive Gauge** Sequence#: 5
Manufacturer: Palegic Pressure Systems, Inc Tested By: Mashood Danmole
Model: **i550 | NS911279**
S/N: N/A

***Test Equipment*:**

Function	S/N	Calibration Date	Cal Due Date	Asset #
FSV7-B160 Signal Analyzer	101468	01/28/2014	01/28/2017	N/A
HP 8449B Preamp	3008A02190	05/15/2015	05/15/2016	749
A.H. Systems SAS-200/571 Horn	236	06/14/2016	06/14/2017	609
EMITest Measurement Software	v4.01 Build 195	05/01/2014	05/01/2017	610

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
Dive Gauge*	Palegic Pressure Systems, Inc	i550 | NS911279	N/A

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

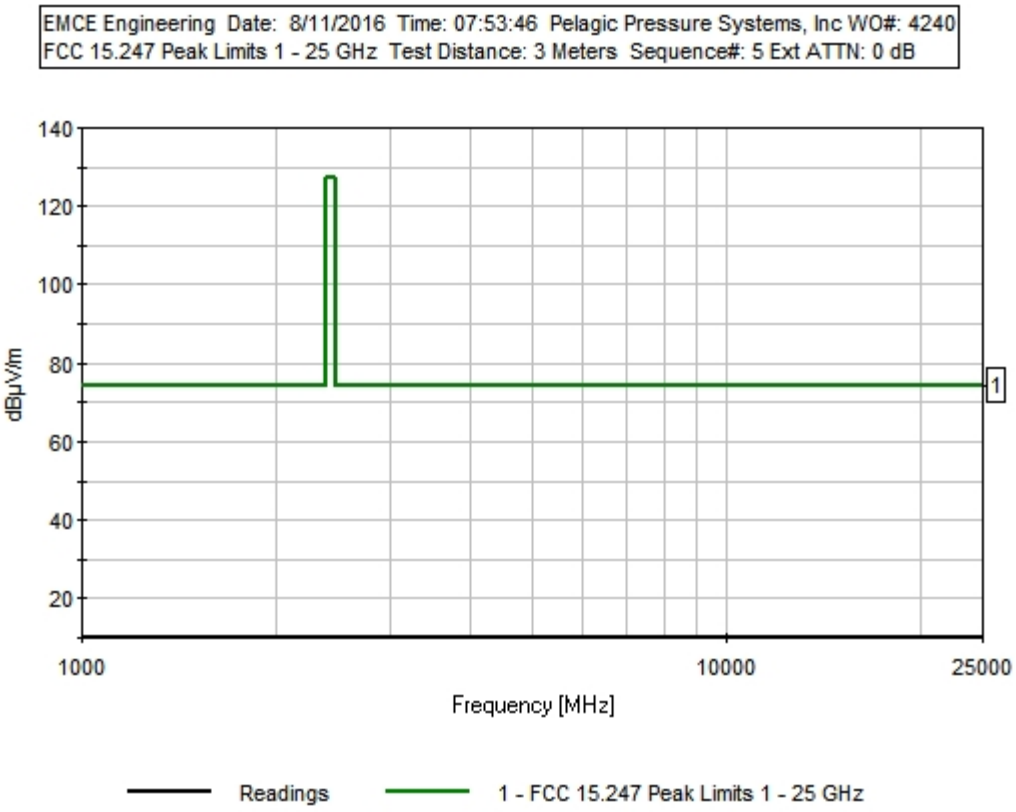
EUT Bluetooth turned ON. | No Spurious EUT Signals Found.

Transducer Legend:

Ext Attn: 0 dB

Measurement Data: Reading listed by margin. Test Distance: 3 Meters

#	Freq MHz	Rdng dBµV	dB	dB	dB	dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant


EMCE Engineering Date: 8/11/2016 Time: 07:53:46 Pelagic Pressure Systems, Inc WO#: 4240
FCC 15.247 Peak Limits 1 - 25 GHz Test Distance: 3 Meters Sequence#: 5 Ext ATTN: 0 dB
140
120
100
80
60
40
20
dBµV/m
1
1000
10000
25000
Frequency [MHz]
Readings
1 - FCC 15.247 Peak Limits 1 - 25 GHz