

Zodiac Pool Systems LLC

TEST REPORT

SCOPE OF WORK

FCC TESTING-400120

REPORT NUMBER

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Zodiac Pool Systems LLC

Application
For
Certification

FCC ID: RIRB0324300

PDA

Model: 400120

902 MHz - 928MHz Transceiver

Report No.: 221021001SZN-001

We hereby certify that the sample of the above item is considered to comply with the requirements of FCC Part 15, Subpart C for Intentional Radiator, mention 47 CFR [10-1-21]

Prepared and Checked by:

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Date: 10 April 2023

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MEASUREMENT/TECHNICAL REPORT

This report concerns (check one) Original Grant Class II Change

Equipment Type: DTS - Part 15 Digital Transmission Systems (Wi-Fi transmitter portion)

Deferred grant requested per 47 CFR 0.457(d)(1)(ii)? Yes No

If yes, defer until: _____
date

Company Name agrees to notify the Commission by: _____
date

of the intended date of announcement of the product so that the grant can be issued on
that date.

Transition Rules Request per 15.37? Yes No

If no, assumed Part 15, Subpart C for intentional radiator - the new 47 CFR [10-01-21]
Edition] provision.

Report prepared by:

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1.0 Summary of Test Results

Applicant: Zodiac Pool Systems LLC

Applicant Address: 2882 Whiptail Loop # 100, Carlsbad, California, 92010, United States

Manufacturer: Zodiac Pool Systems LLC

Manufacturer Address: 2882 Whiptail Loop # 100, Carlsbad, California, 92010, United States

Model: 400120

FCC ID: RIRB0324300

TEST ITEM	REFERENCE	RESULTS
Max. Output power	15.247(b)(3)	Pass
6 dB Bandwidth	15.247(a)(2)	Pass
Max. Power Density	15.247(e)	Pass
Out of Band Antenna Conducted Emission	15.247(d)	Pass
Radiated Emission in Restricted Bands	15.247(d)	Pass
Antenna Requirement	15.203	Pass (See Notes)

Notes: The EUT uses an Integral Antenna which in accordance to Section 15.203 is considered sufficient to comply with the provisions of this section.

2.0 General Description

2.1 Product Description

The Equipment Under Test (EUT) is a PDA with PDA operating in 915.95 MHz -927.00MHz. The EUT can be powered by DC 3.0V(UM-3/R6 AA 1.5V*2). For more detailed features description, please refer to the user's manual.

Antenna Type: Integral antenna

Modulation Type: FSK

Antenna Gain: 0.17dBi

For electronic filing, the brief circuit description is saved with filename: descri.pdf.

2.2 Related Submittal(s) Grants

This is an application for certification of:

DTS- Part 15 Digital Transmission Systems

Remaining portions are subject to the following procedures:

This is an application for certification of controller unit for the PDA, and the corresponding Control unit which associated with this EUT is subjected to FCC certification with FCC ID: RIRB0324100

2.3 Test Methodology

Radiated emission measurements were performed according to the procedures in ANSI C63.10 (2013) and KDB 558074 D01 v05r02. Radiated emission measurement was performed in semi-anechoic chamber. For radiated emission measurement, preliminary scans were performed in the semi-anechoic chamber only to determine the worst case modes. All radiated tests were performed at an antenna to EUT distance of 3 meters, unless stated otherwise in the "**Justification Section**" of this Application.

2.4 Test Facility

The Semi-anechoic chamber used to collect the radiated data is **Intertek Testing Services Shenzhen Ltd. Longhua Branch** and located at 101, 201, Building B, No. 308 Wuhe Avenue, Zhangkengjing Community, GuanHu Subdistrict, LongHua District, Shenzhen, P.R. China. This test facility and site measurement data have been fully placed on file with File Number: CN1188.

3.0 System Test Configuration

3.1 Justification

For emissions testing, the equipment under test (EUT) setup to transmit continuously to simplify the measurement methodology. Care was taken to ensure proper power supply voltages during testing. During testing, all cables were manipulated to produce worst case emissions. The EUT was powered by DC 3.0V(UM-3/R6 AA 1.5V*2) during the test.

For maximizing emissions, the EUT was rotated through 360°, the EUT was placed on the styrene turntable with 0.8m up to 1GHz and 1.5 m above 1GHz. The antenna height and polarization are varied during the search for maximum signal level. The antenna height is varied from 1 to 4 meters. Radiated emissions are taken at three meters unless the signal level is too low for measurement at that distance. If necessary, a pre-amplifier is used and/or the test is conducted at a closer distance.

All readings are extrapolated back to the equivalent three meter reading using inverse scaling with distance. Analyzer resolution is 100 kHz or greater for frequencies below 1000 MHz. The resolution is 1 MHz or greater for frequencies above 1000 MHz. The spurious emissions more than 20 dB below the permissible value are not reported.

The EUT and transmitting antenna was centered on the turntable.

Radiated emission measurement were performed the lowest radio frequency signal generated in the device which is greater than 9 kHz to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.

3.2 EUT Exercising Software

N/A

3.3 Special Accessories

N/A.

3.4 Measurement Uncertainty

When determining of the test conclusion, the Measurement Uncertainty of test has been considered.

3.5 Equipment Modification

Any modifications installed previous to testing by Zodiac Pool Systems LLC will be incorporated in each production model sold / leased in the United States.

No modifications were installed by Intertek Testing Services Shenzhen Ltd. Longhua Branch.

3.6 Support Equipment List and Description

Description	Manufacturer	Model No.
N/A	N/A	N/A

Applicant: Zodiac Pool Systems LLC

Date of Test: October 28, 2022

Model: 400120

4.0 Measurement Results**4.1 Maximum Conducted Output Power at Antenna Terminals, FCC Rules 15.247(b)(3):**

The antenna power of the EUT was connected to the input of a broadband peak RF power meter. The power meter has a video bandwidth that is greater than DTS bandwidth and utilize a fast-responding diode detector. Power was read directly at the EUT antenna terminals with cable loss added.

For antennas with gains of 6 dBi or less, maximum allowed Transmitter output is 1 watt (+30 dBm).

(Antenna Gain = 0.17dBi)		
Frequency (MHz)	Output in dBm (Peak Reading)	Output in mWatt
Low Channel: 915.95	7.90	6.16
Middle Channel: 921.80	7.96	6.25
High Channel: 927.00	7.96	6.25

Cable loss: 0.5 dB External Attenuation: 0 dB

Cable loss, external attenuation has been included in OFFSET function

EUT max. output level = 7.96dBm

EUT max. E.I.R.P = 7.96dBm + 0.17dBi = 8.13dBm = 6.50mW

For RF Exposure, the information is saved with filename: RF exposure.pdf.

Applicant: Zodiac Pool Systems LLC

Date of Test: October 28, 2022

Model: 400120

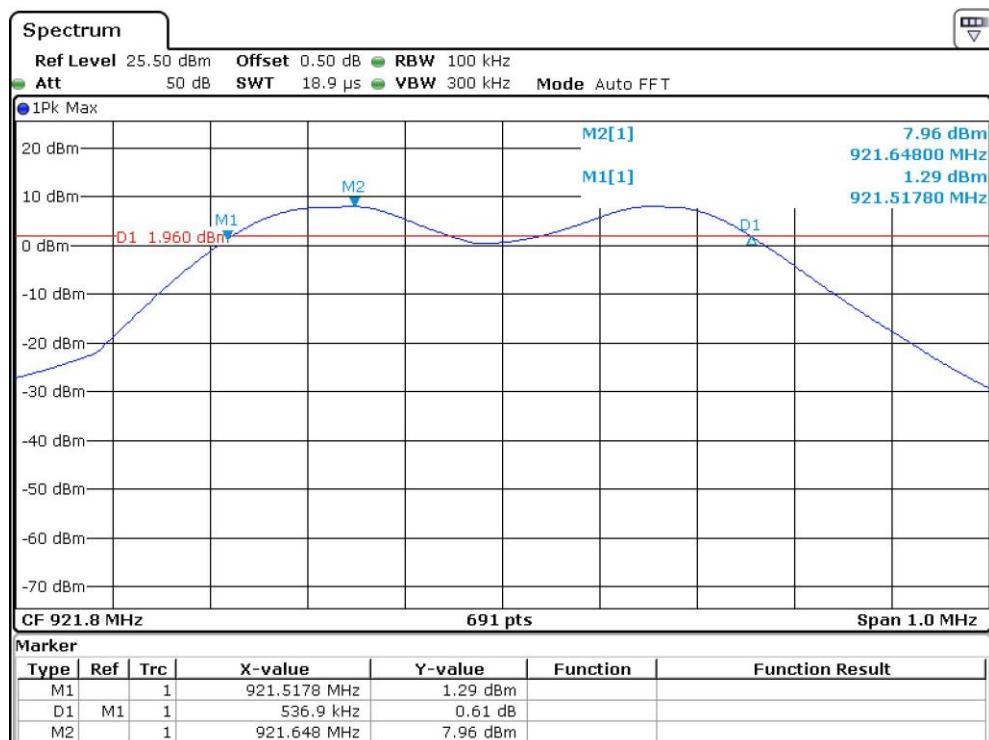
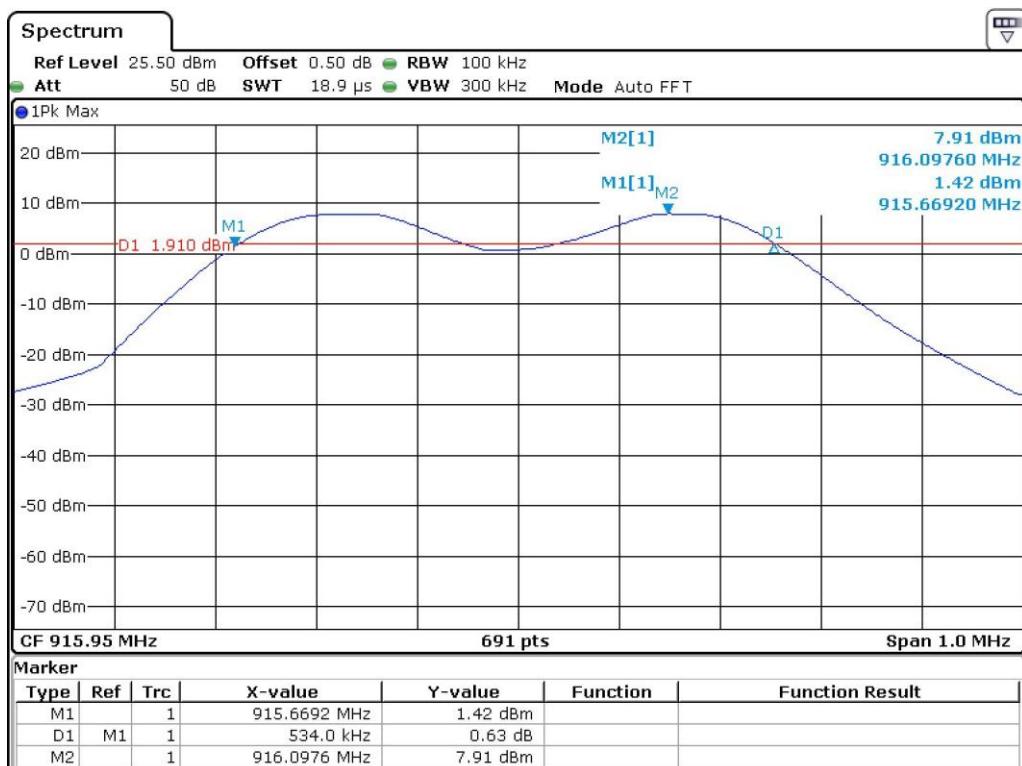
4.2 Minimum 6 dB RF Bandwidth, FCC Rule 15.247(a) (2):

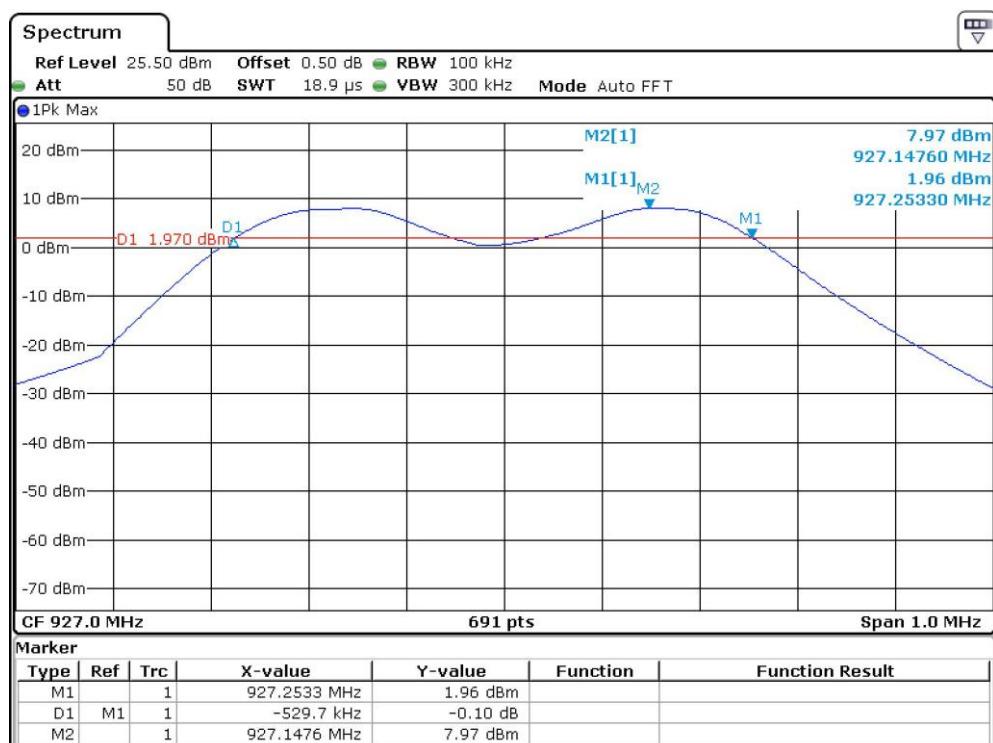
The antenna port of the EUT was connected to the input of a spectrum analyzer. Analyzer RES BW was set to 100 KHz according to FCC KDB 558074 D01 v05r02. For each RF output channel investigated, the spectrum analyzer center frequency was set to the channel carrier. A PEAK output reading was taken, a DISPLAY line was drawn 6 dB lower than PEAK level. The 6dB bandwidth was determined from where the channel output spectrum intersected the display line.

Limit: The 6 dB Bandwidth is at least 500 kHz.

Frequency (MHz)	6 dB Bandwidth (kHz)
Low Channel: 915.95	534.0
Middle Channel: 921.80	536.9
High Channel: 927.00	529.7

The test plots are attached as below.





Applicant: Zodiac Pool Systems LLC

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Model: 400120

4.3 Maximum Power Density Reading, FCC Rule 15.247(e):

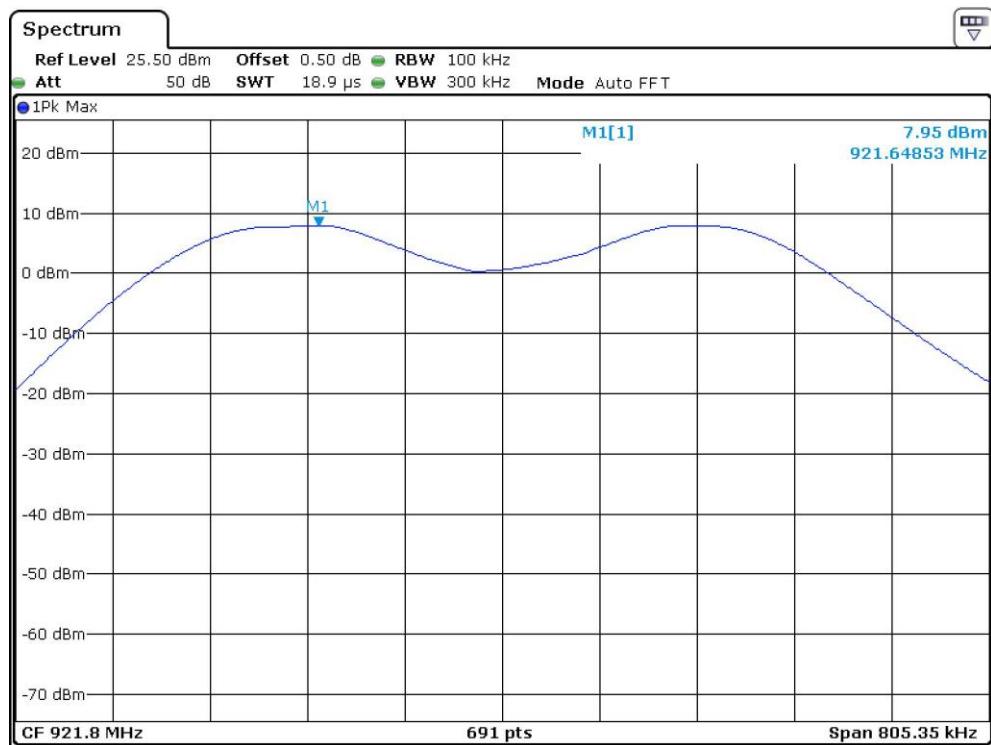
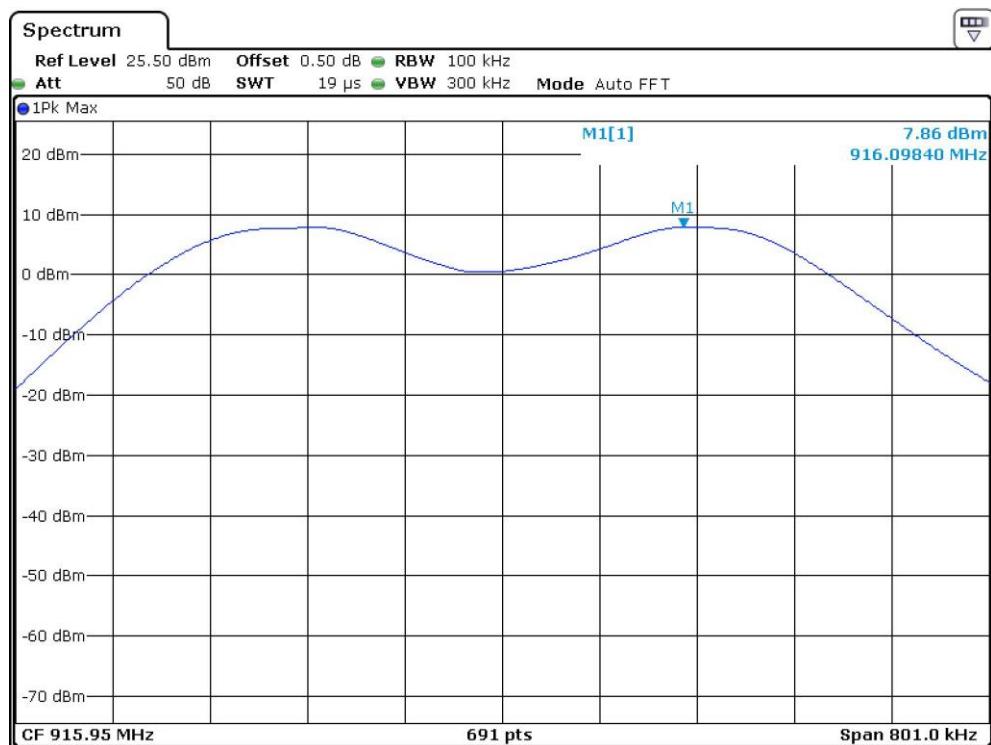
The Measurement Procedure PKPSD was set according to the FCC KDB 558074 D01 v05r02.

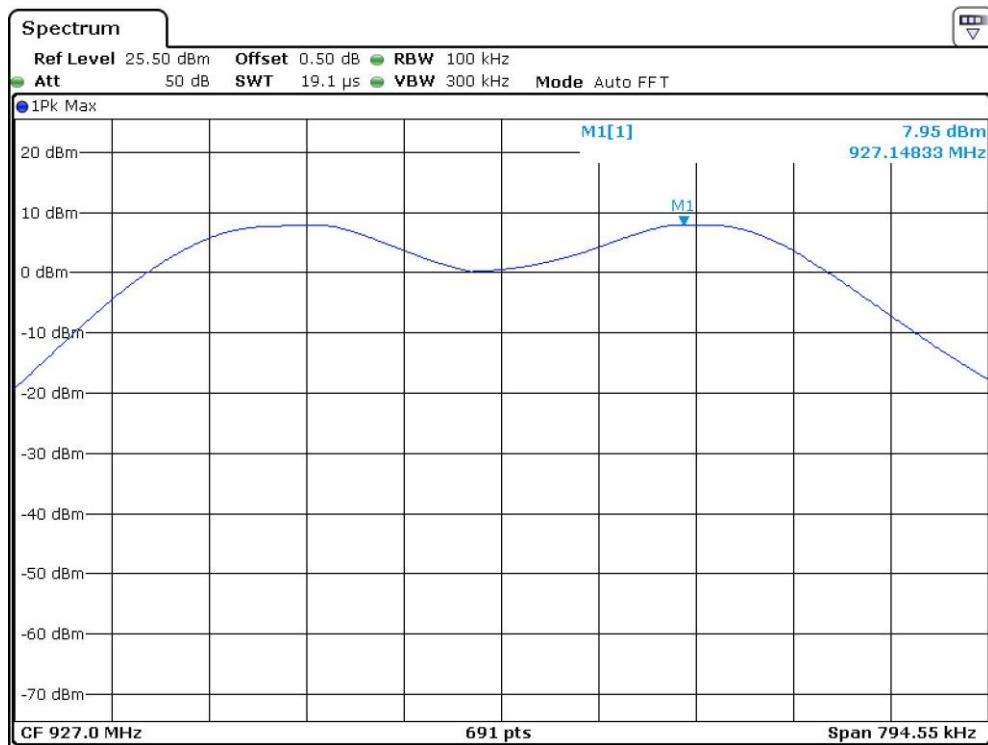
Antenna output of the EUT was coupled directly to spectrum analyzer; if an external attenuator and/or cable was used, these losses are compensated for with the analyzer OFFSET function.

Limit: The Power Density does not exceed 8dBm/100 kHz.

Frequency (MHz)	Power Density with RBW 100KHz
Low Channel: 915.95	7.86
Middle Channel: 921.80	7.95
High Channel: 927.00	7.95

The test plots are attached as below.





Applicant: Zodiac Pool Systems LLC

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4.4 Out of Band Conducted Emissions, FCC Rule 15.247(d)

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. The Measurement Procedure was set according to the FCC KDB 558074 D01 v05r02.

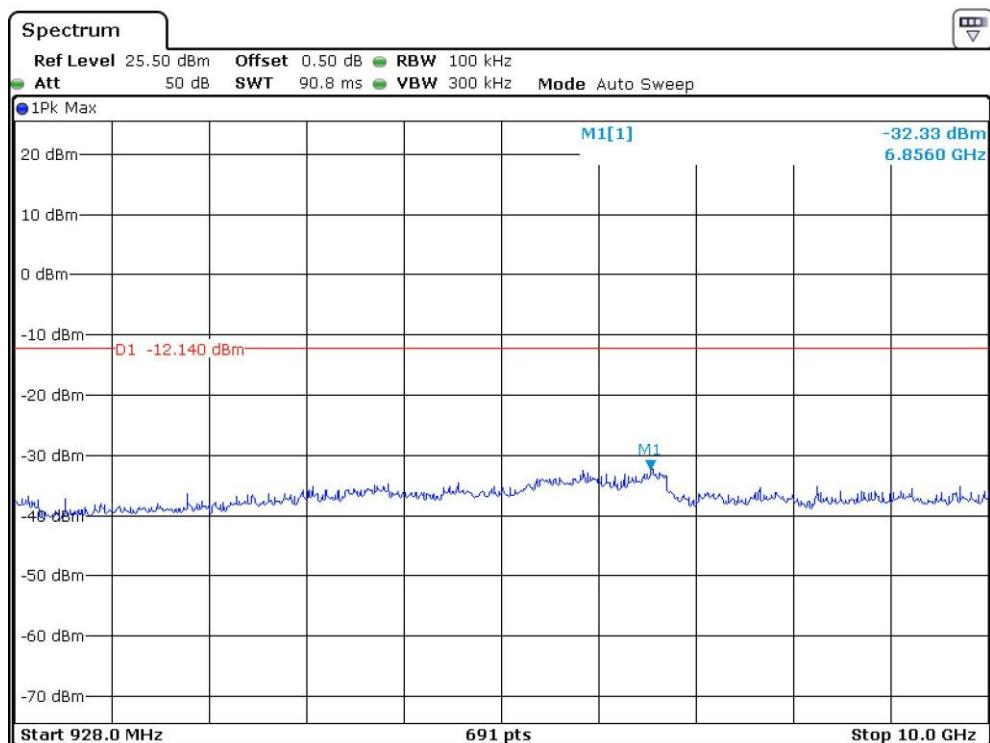
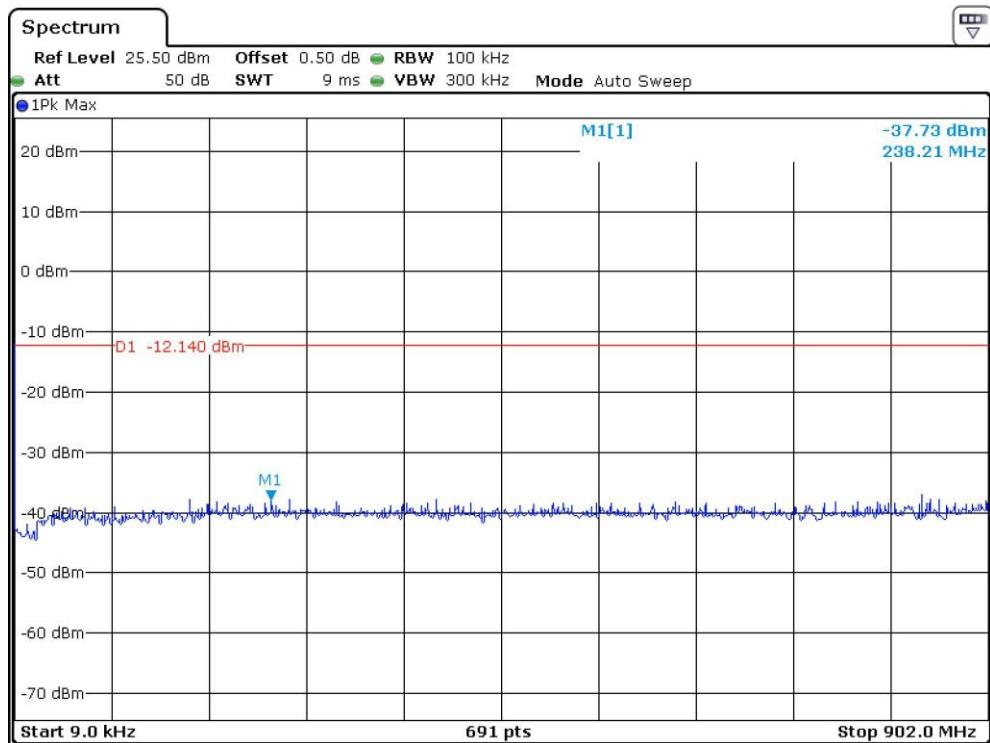
All other types of emissions from the EUT shall meet the general limits for radiated frequencies outside the passband.

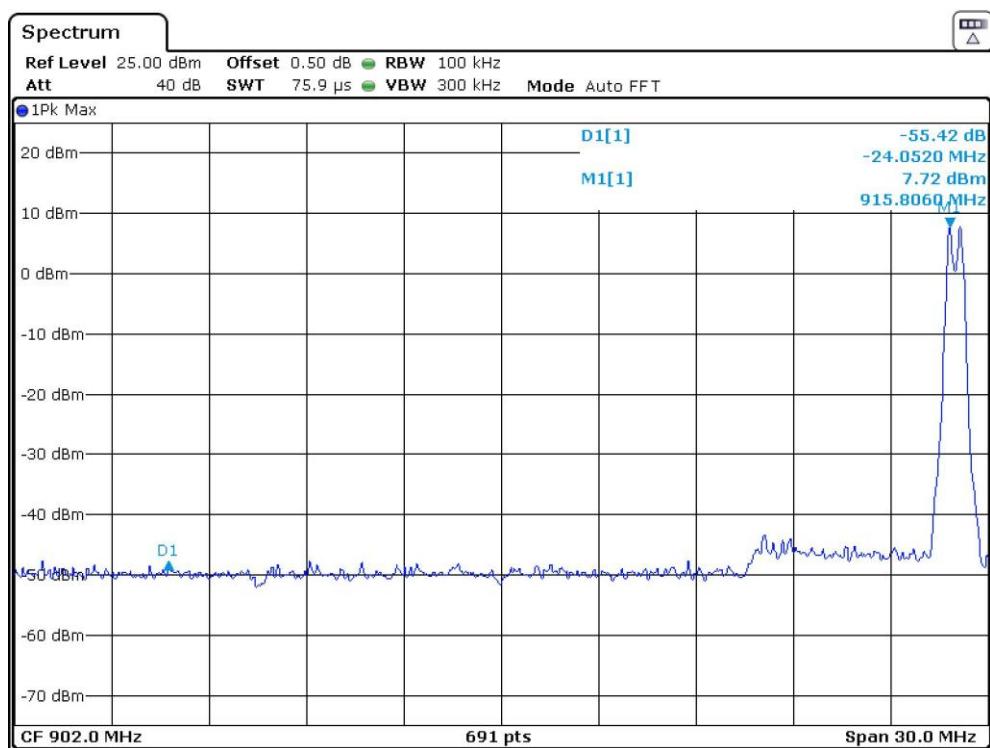
Refer to the attached test plots for out of band conducted emissions data .

The test plots showed all spurious emission up to the tenth harmonic were measured and they were found to be at least 20 dB below the highest level of the desired power in the passband.

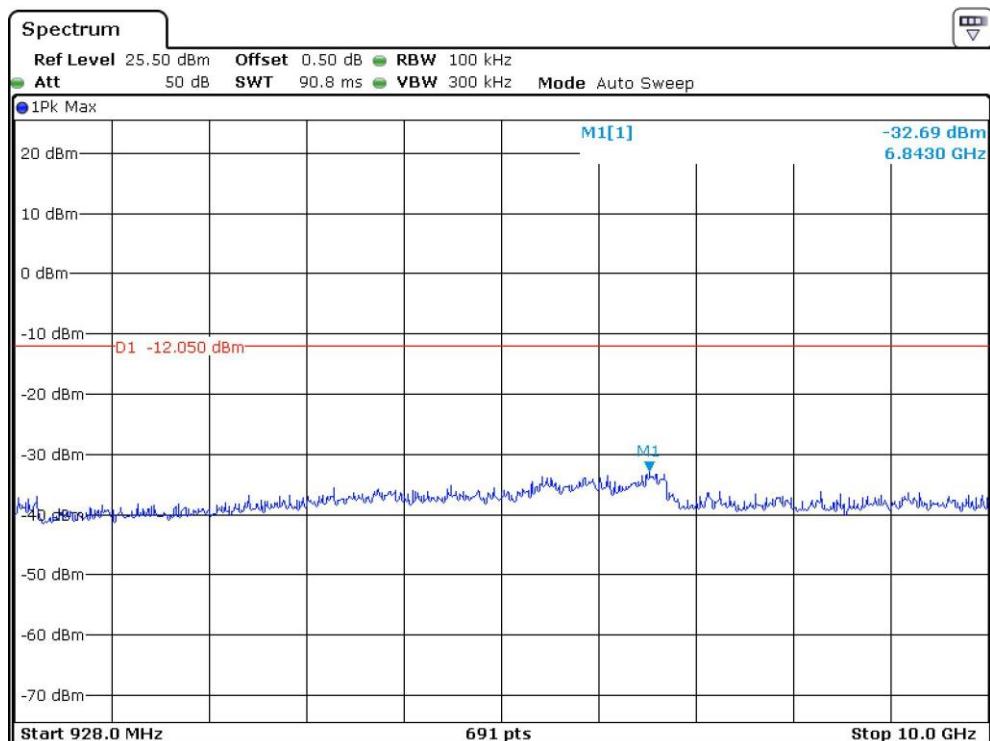
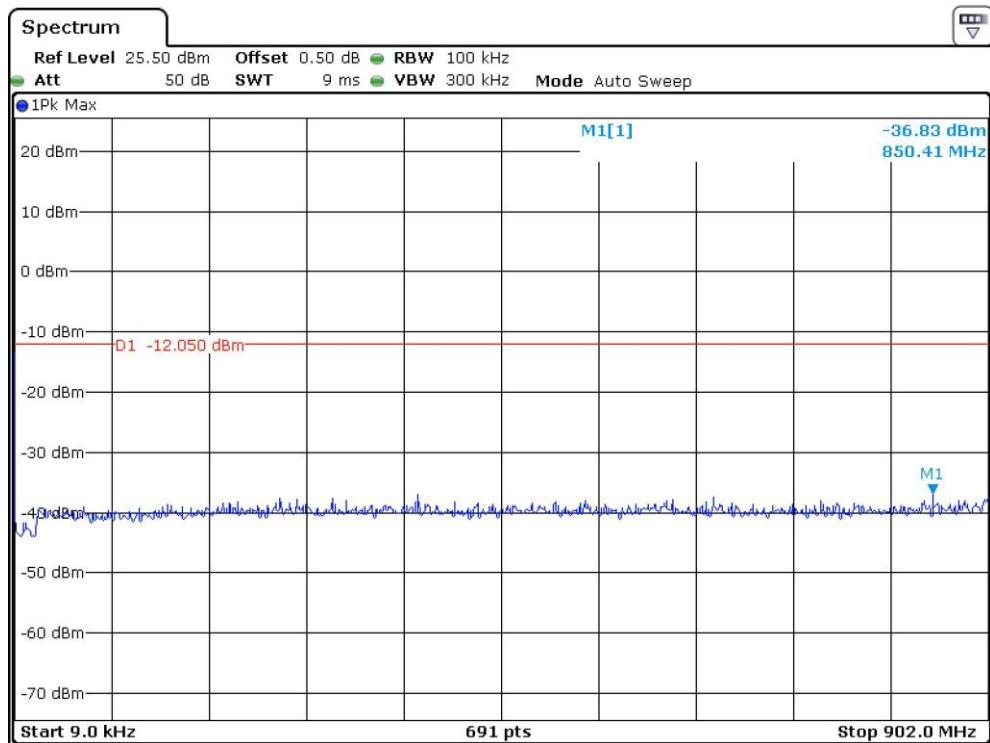
The test plots are attached as below.

Channel 01 Reference Level: 7.86dBm

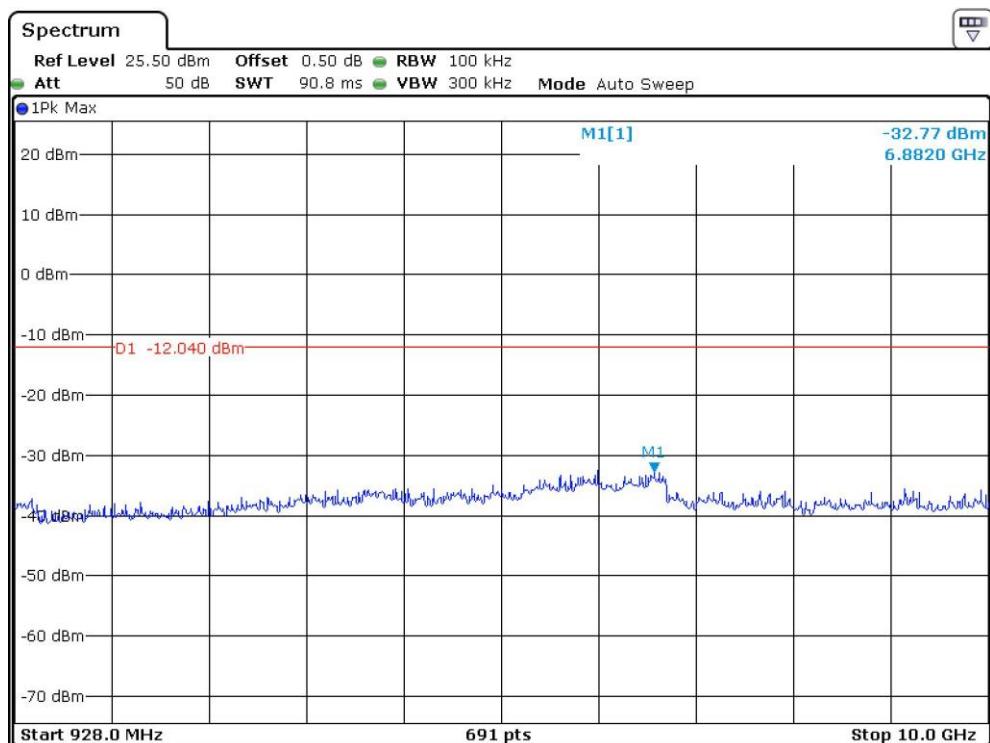
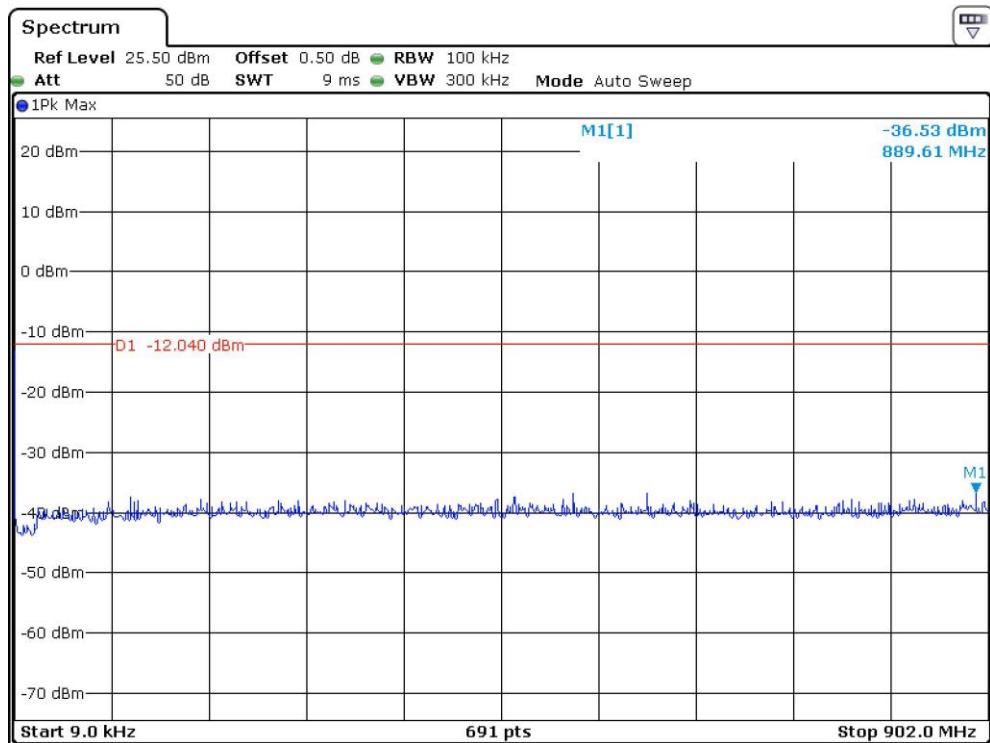


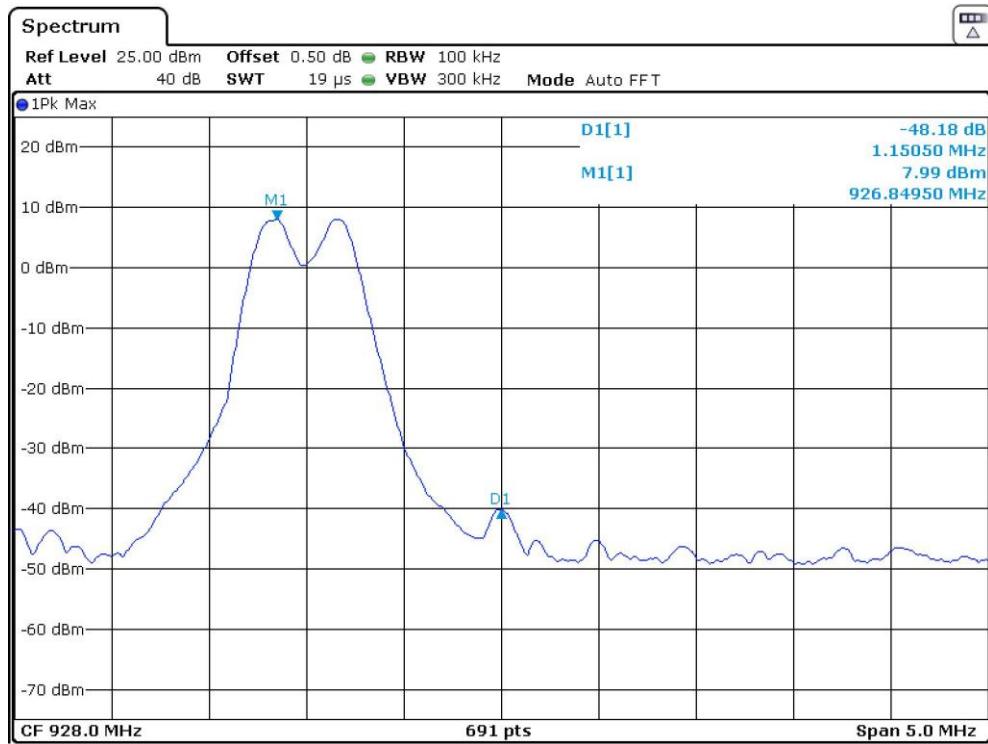


Channel 10 Reference Level: 7.95dBm



Channel 18 Reference Level: 7.95dBm





Applicant: Zodiac Pool Systems LLC

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4.5 Out of Band Radiated Emissions (for emissions in 4.4 above that are less than 20dB below carrier), FCC Rule 15.247(d):

For out of band emissions that are close to or that exceed the 20dB attenuation requirement described in the specification, radiated measurements were performed at a 3m separation distance to determine whether these emissions complied with the general radiated emission requirement.

- Not required, since all emissions are more than 20dB below fundamental
- See attached data sheet

Applicant: Zodiac Pool Systems LLC

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4.6 Transmitter Radiated Emissions in Restricted Bands, FCC Rule 15.35(b) (c):

Data is included of the worst case configuration (the configuration which resulted in the highest emission levels). A sample calculation, configuration photographs and data tables of the emissions are included. All measurements were performed with peak detection unless otherwise specified.

The data on the following pages list the significant emission frequencies, the limit and the margin of compliance.

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4.7 Field Strength Calculation

The field strength is calculated by adding the reading on the Spectrum Analyzer to the factors associated with preamplifiers (if any), antennas, cables, pulse desensitization and average factors (when specified limit is in average and measurements are made with peak detectors). A sample calculation is included below.

$$FS = RA + AF + CF - AG + PD$$

Where

FS = Field Strength in $\text{dB}\mu\text{V}/\text{m}$ RA = Receiver Amplitude (including preamplifier) in $\text{dB}\mu\text{V}$

CF = Cable Attenuation Factor in dB

AF = Antenna Factor in dB/m

AG = Amplifier Gain in dB

PD = Pulse Desensitization in dB

In the radiated emission table which follows, the reading shown on the data table may reflect the preamplifier gain. An example of the calculations, where the reading does not reflect the preamplifier gain, follows:

$$FS = RA + AF + CF - AG + PD$$

Example

Assume a receiver reading of 62.0 $\text{dB}\mu\text{V}$ is obtained. The antenna factor of 7.4 dB/m and cable factor of 1.6 dB is added. The amplifier gain of 29 dB is subtracted. The pulse desensitization factor of the spectrum analyzer was 0 dB. The net field strength for comparison to the appropriate emission limit is 42 $\text{dB}\mu\text{V}/\text{m}$. This value in $\text{dB}\mu\text{V}/\text{m}$ was converted to its corresponding level in $\mu\text{V}/\text{m}$.

RA = 62.0 $\text{dB}\mu\text{V}$ AF = 7.4 dB/m

CF = 1.6 dB

AG = 29.0 dB

PD = 0 dB

$$FS = 62 + 7.4 + 1.6 - 29 + 0 = 42 \text{ dB}\mu\text{V}/\text{m}$$

Level in mV/m = Common Antilogarithm $[(42 \text{ dB}\mu\text{V}/\text{m})/20] = 125.9 \mu\text{V}/\text{m}$

Applicant: Zodiac Pool Systems LLC

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Model: 400120

4.8 Radiated Spurious Emission

Worst Case Radiated Spurious Emission
at 7328.55MHz
is passed by 4.1dB margin.

For the electronic filing, the worst case radiated emission configuration photographs are saved with filename: radiated photos.pdf.

Applicant: Zodiac Pool Systems LLC

Date of Test: October 28, 2022

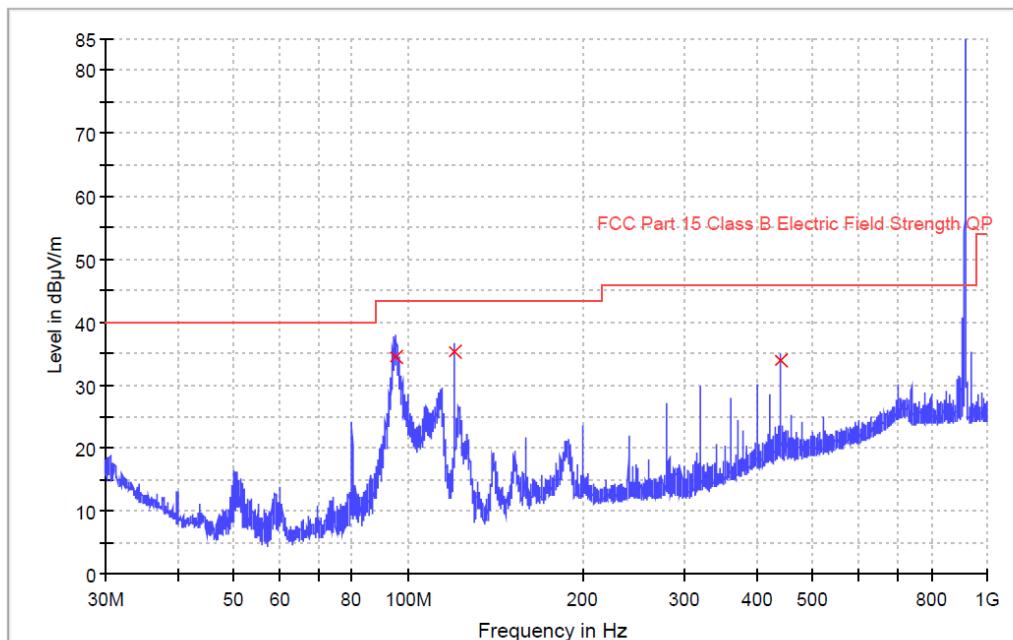
Worst Case Operating Mode:

Model: 400120

Transmitting (Normal Link)

ANT Polarity: Horizontal

FCC Part 15



Frequency (MHz)	Quasi Peak (dB μ V/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dB μ V/m)
94.920000	34.5	1000.0	120.000	100.0	H	8.5	9.0	43.5
119.983667	35.2	1000.0	120.000	100.0	H	8.4	8.3	43.5
440.019000	33.8	1000.0	120.000	100.0	H	19.9	12.2	46.0

Remark:

1. Corr. (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB)
2. Quasi Peak (dB μ V/m) = Corr. (dB/m) + Read Level (dB μ V)
3. Margin (dB) = Limit Line (dB μ V/m) – Level (dB μ V/m)

Applicant: Zodiac Pool Systems LLC

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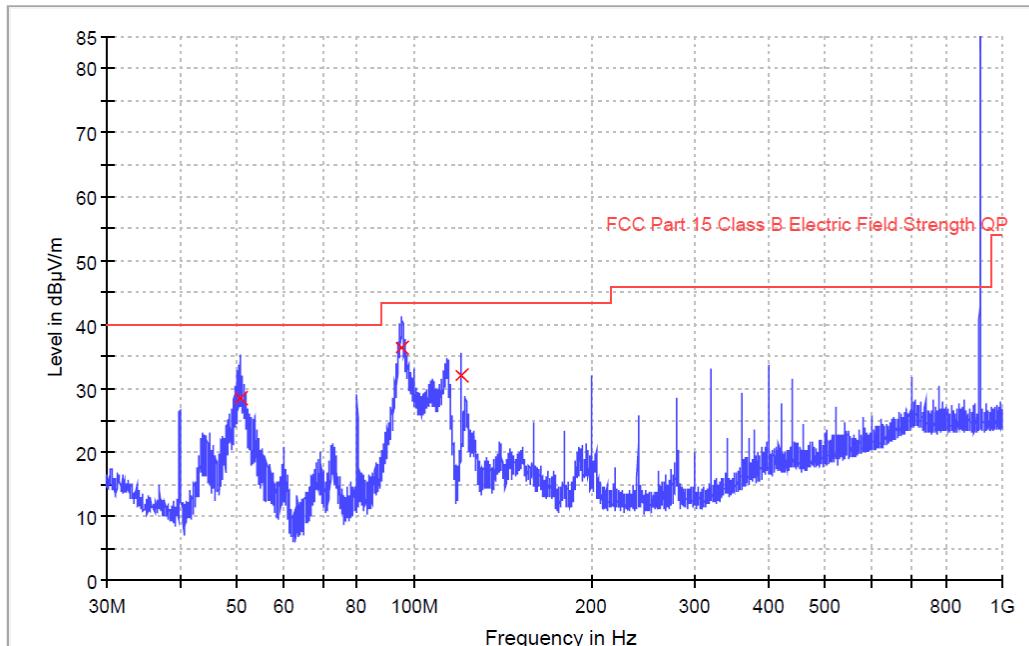
Worst Case Operating Mode:

Model: 400120

Transmitting (Normal Link)

ANT Polarity: Vertical

FCC Part 15



Frequency (MHz)	Quasi Peak (dB μ V/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dB μ V/m)
50.531667	28.5	1000.0	120.000	100.0	V	7.2	11.5	40.0
94.990000	36.4	1000.0	120.000	100.0	V	8.5	7.1	43.5
119.983667	32.1	1000.0	120.000	100.0	V	8.4	11.4	43.5

Remark:

1. Corr. (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB)
2. Quasi Peak (dB μ V/m) = Corr. (dB/m) + Read Level (dB μ V)
3. Margin (dB) = Limit Line (dB μ V/m) – Level (dB μ V/m)

Applicant: Zodiac Pool Systems LLC

Date of Test: October 28, 2022

Worst Case Operating Mode:

Model: 400120

Transmitting (915.95MHz)

Radiated Emissions (above 1GHz)

Worst case data

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB/m)	Net at 3m (dB μ V/m)	Peak Limit at 3m (dB μ V/m)	Margin (dB)
Vertical	*1831.313	70.9	35.7	27.4	62.6	74.0	-11.4
Vertical	*7328.550	66.7	33.1	36.1	69.7	74.0	-4.3
Vertical	*9159.938	59.0	32.6	37.3	63.7	74.0	-10.3

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB/m)	Net at 3m (dB μ V/m)	Average Limit at 3m (dB μ V/m)	Margin (dB)
Vertical	*1831.313	43.2	35.7	27.4	34.9	54.0	-19.1
Vertical	*7328.550	46.9	33.1	36.1	49.9	54.0	-4.1
Vertical	*9159.938	44.3	32.6	37.3	49.0	54.0	-5.0

NOTES:

1. Peak detector is used, RBW=1MHz/VBW=3MHz for peak value and RBW=1MHz/VBW=10Hz for average value.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna used for the emission over 1000MHz.

* Emission within the restricted band meets the requirement of section 15.205. The corresponding limit as per 15.209 is based on Quasi peak limit for frequencies below 1000 MHz and average limit for frequencies over 1000 MHz. The radio frequency emissions above 1GHz also meet corresponding 20dB permitted peak limit with a peak detector function.

Applicant: Zodiac Pool Systems LLC

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Worst Case Operating Mode:

Model: 400120

Transmitting (921.8MHz)

Radiated Emissions (above 1GHz)

Worst case data

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB/m)	Net at 3m (dB μ V/m)	Peak Limit at 3m (dB μ V/m)	Margin (dB)
Vertical	*5527.862	62.8	33.7	33.1	62.2	74.0	-11.8
Vertical	*7370.000	64.9	33.1	36.8	68.6	74.0	-5.4
Vertical	*8289.112	54.5	32.9	37.2	58.8	74.0	-15.2

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB/m)	Net at 3m (dB μ V/m)	Average Limit at 3m (dB μ V/m)	Margin (dB)
Vertical	*5527.862	42.7	33.7	33.1	42.1	54.0	-11.9
Vertical	*7370.000	42.5	33.1	36.8	46.2	54.0	-7.8
Vertical	*8289.112	40.8	32.9	37.2	45.1	54.0	-8.9

NOTES: 1. Peak detector is used, RBW=1MHz/VBW=3MHz for peak value and

RBW=1MHz / VBW=10Hz for average value.

2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna used for the emission over 1000MHz.

* Emission within the restricted band meets the requirement of section 15.205. The corresponding limit as per 15.209 is based on Quasi peak limit for frequencies below 1000 MHz and average limit for frequencies over 1000 MHz. The radio frequency emissions above 1GHz also meet corresponding 20dB permitted peak limit with a peak detector function.

Applicant: Zodiac Pool Systems LLC

Date of Test: October 28, 2022

Worst Case Operating Mode:

Model: 400120

Transmitting (927MHz)

Radiated Emissions (above 1GHz)

Worst case data

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB/m)	Net at 3m (dB μ V/m)	Peak Limit at 3m (dB μ V/m)	Margin (dB)
Vertical	*6487.837	64.1	33.3	36.0	66.8	74.0	-7.2
Vertical	*7416.000	61.8	33.1	36.9	65.6	74.0	-8.4
Vertical	*9268.475	56.1	32.6	37.4	60.9	74.0	-13.1

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB/m)	Net at 3m (dB μ V/m)	Average Limit at 3m (dB μ V/m)	Margin (dB)
Vertical	*6487.837	42.0	33.3	36.0	44.7	54.0	-9.3
Vertical	*7416.000	42.5	33.1	36.9	46.3	54.0	-7.7
Vertical	*9268.475	40.2	32.6	37.4	45.0	54.0	-9.0

NOTES:

1. Peak detector is used, RBW=1MHz/VBW=3MHz for peak value and RBW=1MHz / VBW=10Hz for average value.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna used for the emission over 1000MHz.

* Emission within the restricted band meets the requirement of section 15.205. The corresponding limit as per 15.209 is based on Quasi peak limit for frequencies below 1000 MHz and average limit for frequencies over 1000 MHz. The radio frequency emissions above 1GHz also meet corresponding 20dB permitted peak limit with a peak detector function.

4.9 Radiated Emissions from Digital Section of Transceiver, FCC Ref: 15.109

- [] Not required - No digital part
- [] Test results are attached
- [x] Included in the separated report.

Applicant: Zodiac Pool Systems LLC
Date of Test: October 28, 2022
Model: 400120

4.10 Transmitter Duty Cycle Calculation and Measurements, FCC Rule 15.35(b), (c)

The EUT antenna output port was connected to the input of the spectrum analyzer. The analyzer center frequency was set to EUT RF channel carrier. The SWEP function on the analyzer was set to ZERO SPAN. The Transmitter ON time was determined from the resultant time-amplitude display:

	See attached spectrum analyzer chart (s) for Transmitter timing
	See Transmitter timing diagram provided by manufacturer
x	Not applicable, duty cycle was not used.

5.0 Equipment Photographs

For electronic filing, the photographs are saved with filename: external photos.pdf & internal photos.pdf.

6.0 Product Labeling

For electronic filing, the FCC ID label artwork and location is saved with filename: label.pdf.

7.0 Technical Specifications

For electronic filing, the block diagram and circuit diagram are saved with filename: block.pdf and circuit.pdf respectively.

8.0 Instruction Manual

For electronic filing, a preliminary copy of the Instruction Manual is saved with filename: manual.pdf.

This manual will be provided to the end-user with each unit sold/leased in the United States.

9.0 Confidentiality Request

For electronic filing, the confidentiality request of the tested EUT is saved with filename: request.pdf.

10.0 Discussion of Pulse Desensitization

The determination of pulse desensitivity was made in accordance with Hewlett Packard Application Note 150-2, *Spectrum Analysis ... Pulsed RF*.

Pulse desensitivity is not applicable for this device since the transmitter transmits the RF signal continuously.

11.0 Test Equipment List

Equipment No.	Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Due Date
SZ182-02	RF Power Meter	Anritsu	ML2496A	1302005	2022-05-16	2023-05-16
SZ182-02-01	Power Sensor	Anritsu	MA2411B	1207429	2022-05-16	2023-05-16
SZ061-12	BiConiLog Antenna	ETS	3142E	00166158	2021-08-04	2024-08-04
SZ185-03	EMI Receiver	R&S	ESCI	100547	2021-12-20	2022-12-20
SZ061-07	Pyramidal Horn Antenna	ETS	3160-09	00083067	2022-08-31	2024-08-31
SZ061-06	Active Loop Antenna	Electro-Metrics	EM-6876	217	2021-05-18	2023-05-18
SZ056-03	Spectrum Analyzer	R&S	FSP 30	101148	2022-05-16	2023-05-16
SZ056-06	Signal Analyzer	R&S	FSV 40	101101	2021-12-20	2022-12-20
SZ181-04	Preamplifier	Agilent	8449B	3008A02474	2022-05-16	2023-05-16
SZ188-01	Anechoic Chamber	ETS	RFD-F/A-100	4102	2021-12-12	2024-12-12
SZ062-02	RF Cable	RADIALL	RG 213U	--	2022-05-20	2022-11-20
SZ062-05	RF Cable	RADIALL	0.04-26.5GHz	--	2022-05-20	2022-11-20
SZ062-12	RF Cable	RADIALL	0.04-26.5GHz	--	2022-05-20	2022-11-20
SZ067-04	Notch Filter	Micro-Tronics	BRM50702-02	--	2022-05-17	2023-05-17

***** End of Report*****