



Report No.:

TW2008140E

File Reference No.:

2020-08-27

Applicant:

Pioneer Research

Product:

SeaLife SportDiver Underwater Housing for iPhone®

Model No.:

SportDiver SL400

Trademark:

SeaLife

Test Standards:

FCC Part 15.247

Test Result:

It is herewith confirmed and found to comply with the requirements set up by ANSI C63.10, FCC Part 15.247 for the evaluation of electromagnetic compatibility

Approved By

Jack Chung

Manager

Dated:

August 27, 2020

Results appearing herein relate only to the sample tested

The technical reports is issued errors and omissions exempt and is subject to withdrawal at

SHENZHEN TIMEWAY TESTING LABORATORIES

Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China

Tel (755) 83448688, Fax (755) 83442996, E-Mail:info@timeway-lab.com



Special Statement:

The testing quality ability of our laboratory meet with “Quality Law of People’s Republic of China” Clause 19.

The testing quality system of our laboratory meet with ISO/IEC-17025 requirements, which is approved by CNAL. This approval result is accepted by MRA of APLAC.

Our test facility is recognized, certified, or accredited by the following organizations:

CNAS-LAB Code: L2292

The EMC Laboratory has been assessed and in compliance with CNAS-CL01 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:2005 General Requirements) for the Competence of testing Laboratories.

FCC-Registration No.: 744189

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 744189.

Industry Canada (IC) —Registration No.:5205A

The EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 5205A.

A2LA (Certification Number:5013.01)

The EMC Laboratory has been accredited by the American Association for Laboratory Accreditation (A2LA). Certification Number:5013.01

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Test Report Conclusion
Content

| | | |
|------------|---|----|
| 1.0 | General Details | 4 |
| 1.1 | Test Lab Details | 4 |
| 1.2 | Applicant Details | 4 |
| 1.3 | Description of EUT | 4 |
| 1.4 | Submitted Sample | 4 |
| 1.5 | Test Duration | 5 |
| 1.6 | Test Uncertainty | 5 |
| 1.7 | Test By | 5 |
| 2.0 | List of Measurement Equipment | 6 |
| 3.0 | Technical Details | 7 |
| 3.1 | Summary of Test Results | 7 |
| 3.2 | Test Standards | 7 |
| 4.0 | EUT Modification | 7 |
| 5.0 | Power Line Conducted Emission Test | 8 |
| 5.1 | Schematics of the Test | 8 |
| 5.2 | Test Method and Test Procedure | 8 |
| 5.3 | Configuration of the EUT | 8 |
| 5.4 | EUT Operating Condition | 9 |
| 5.5 | Conducted Emission Limit | 9 |
| 5.6 | Test Result | 9 |
| 6.0 | Radiated Emission test | 10 |
| 6.1 | Test Method and Test Procedure | 10 |
| 6.2 | Configuration of the EUT | 10 |
| 6.3 | EUT Operation Condition | 10 |
| 6.4 | Radiated Emission Limit | 11 |
| 7.0 | 6dB Bandwidth Measurement Bandwidth | 20 |
| 8.0 | Maximum Peak Output Power | 25 |
| 9.0 | Power Spectral Density Measurement | 27 |
| 10.0 | Out of Band Measurement | 32 |
| 11.0 | Antenna Requirement | 39 |
| 12.0 | FCC ID Label | 40 |
| 13.0 | Photo of Test Setup and EUT View | 41 |

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1.0 General Details

1.1 Test Lab Details

Name : SHENZHEN TIMEWAY TESTING LABORATORIES.
Address: Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China
Telephone: (755) 83448688
Fax: (755) 83442996

1.2 Applicant Details

Applicant: Pioneer Research
Address: 97 Foster Road, Suite 5, Moorestown, NJ 08057, USA
Telephone: +1 856 866 9191
Fax: --

1.3 Description of EUT

Product: SeaLife SportDiver Underwater Housing for iPhone®
Manufacturer: Pioneer Research
Address: 97 Foster Road, Suite 5, Moorestown, NJ 08057, USA
Brand Name: SeaLife
Additional Brand Name: N/A
Model Number: SportDiver SL400
Additional Model Number: N/A
Type of Modulation GFSK (Bluetooth LE)
Frequency range 2402-2480MHz
Frequency Selection By software
Channel Number 40
Input Voltage: DC3V (2 pcs AAA batteries)
Bluetooth Version: 5.0
Hardware Version: 1.1a
Software Version: V0134
Antenna: PCB Antenna with maximum gain -0.3dBi (Get from document provided by the manufacturer)

1.4 Submitted Sample: 1 Samples

1.5 Test Duration

2020-08-13 to 2020-08-27

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1.6 Test Uncertainty

Conducted Emissions Uncertainty =3.6dB

Radiated Emissions below 1GHz Uncertainty =4.7dB

Radiated Emissions above 1GHz Uncertainty =6.0dB

Conducted Power Uncertainty =6.0dB

Occupied Channel Bandwidth Uncertainty =5%

Note: The measurement uncertainty is for coverage factor of k=2 with a level of confidence of 95%

1.7 Test Engineer

Terry Tang

The sample tested by _____

Print Name: Terry Tang

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| 2.0 Test Equipment | | | | | |
|---------------------|--------------|-------------------|--------------|--------------|------------|
| Instrument Type | Manufacturer | Model | Serial No. | Date of Cal. | Due Date |
| ESPI Test Receiver | R&S | ESPI 3 | 100379 | 2020-06-23 | 2021-06-22 |
| LISN | R&S | EZH3-Z5 | 100294 | 2020-06-23 | 2021-06-22 |
| LISN | R&S | EZH3-Z5 | 100253 | 2020-06-23 | 2021-06-22 |
| Ultra Broadband ANT | R&S | HL562 | 100157 | 2020-06-23 | 2021-06-22 |
| Impuls-Begrenzer | R&S | ESH3-Z2 | 100281 | 2020-06-23 | 2021-06-22 |
| Loop Antenna | EMCO | 6507 | 00078608 | 2018-06-25 | 2021-06-24 |
| Spectrum | R&S | FSIQ26 | 100292 | 2020-06-23 | 2021-06-22 |
| Horn Antenna | A-INFO | LB-180400-KF | J211060660 | 2019-06-21 | 2021-06-20 |
| Horn Antenna | R&S | BBHA 9120D | 9120D-631 | 2018-07-09 | 2021-07-08 |
| Power meter | Anritsu | ML2487A | 6K00003613 | 2020-06-23 | 2021-06-22 |
| Power sensor | Anritsu | MA2491A | 32263 | 2020-06-23 | 2021-06-22 |
| Bilog Antenna | Schwarebeck | VULB9163 | 9163/340 | 2018-07-04 | 2021-07-03 |
| 9*6*6 Anechoic | -- | -- | N/A | 2018-02-07 | 2021-02-06 |
| EMI Test Receiver | RS | ESVB | 826156/011 | 2020-06-23 | 2021-06-22 |
| EMI Test Receiver | RS | ESH3 | 860904/006 | 2020-06-23 | 2021-06-22 |
| Spectrum | HP/Agilent | ESA-L1500A | US37451154 | 2020-06-23 | 2021-06-22 |
| Spectrum | HP/Agilent | E4407B | MY50441392 | 2020-06-23 | 2021-06-22 |
| Spectrum | RS | FSP | 1164.4391.38 | 2020-01-16 | 2021-01-15 |
| RF Cable | Zhengdi | ZT26-NJ-NJ-8 M/FA | -- | 2020-06-23 | 2021-06-22 |
| RF Cable | Zhengdi | 7m | -- | 2020-06-23 | 2021-06-22 |
| RF Switch | EM | EMSW18 | 060391 | 2020-06-23 | 2021-06-22 |
| Pre-Amplifier | Schwarebeck | BBV9743 | #218 | 2020-06-23 | 2021-06-22 |
| Pre-Amplifier | HP/Agilent | 8449B | 3008A00160 | 2020-06-23 | 2021-06-22 |
| LISN | SCHAFFNER | NNB42 | 00012 | 2020-01-07 | 2021-01-06 |

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3.0 Technical Details

3.1 Summary of test results

| The EUT has been tested according to the following specifications: | | | |
|--|--|--------|----------|
| Standard | Test Type | Result | Notes |
| FCC Part 15, Paragraph 15.107 & 15.207 | Conducted Emission Test | PASS | Complies |
| FCC Part 15 Subpart C Paragraph 15.247(a)(2) Limit | Spectrum bandwidth of a Orthogonal Frequency Division Multiplex System Limit: 6dB bandwidth>500kHz | PASS | Complies |
| FCC Part 15, Paragraph 15.247(b) | Maximum peak output power Limit: max. 30dBm | PASS | Complies |
| FCC Part 15, Paragraph 15.109,15.205 & 15.209 | Transmitter Radiated Emission Limit: Table 15.209 | PASS | Complies |
| FCC Part 15, Paragraph 15.247(e) | Power Spectral Density Limit: max. 8dBm | PASS | Complies |
| FCC Part 15, Paragraph 15.247(d) | Out of Band Emission and Restricted Band Radiation Limit: 20dB less than peak value of fundamental frequency Restricted band limit: Table 15.209 | PASS | Complies |

3.2 Test Standards

FCC Part 15 Subpart & Subpart C, Paragraph 15.247

4.0 EUT Modification

No modification by SHENZHEN TIMEWAY TESTING LABORATORIES.

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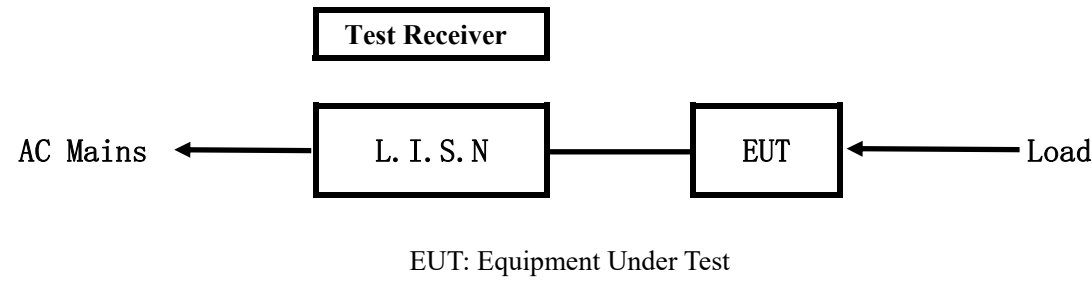
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5.Power Line Conducted Emission Test

5.1 Schematics of the test

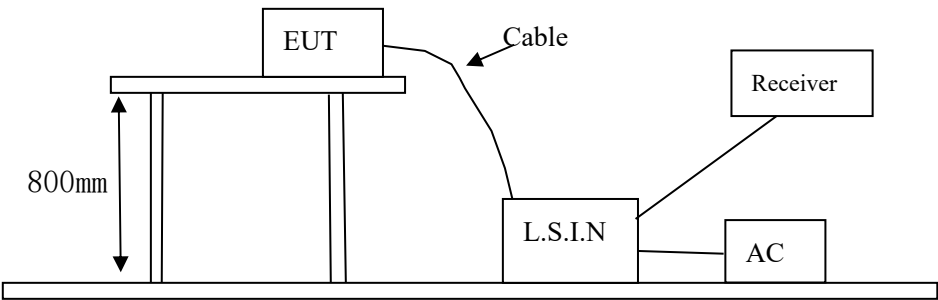


5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.10-2013.The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.10 –2013.

Test Voltage: 120V~, 60Hz

Block diagram of Test setup



5.3 Configuration of The EUT

The EUT was configured according to ANSI C63.10-2013. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

A. EUT

| Device | Manufacturer | Model | FCC ID |
|---|------------------|---------------------|-------------|
| SeaLife SportDiver Underwater Housing for iPhone® | Pioneer Research | SportDiver SL400 | 2ACKF-SL400 |

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B. Internal Device

| Device | Manufacturer | Model | Rating |
|--------|--------------|-------|--------|
| | | | |

C. Peripherals

| Device | Manufacturer | Model | Rating |
|--------|--------------|-------|--------|
| -- | | | |

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.10-2013.

A Setup the EUT and simulators as shown on follow

B Enable AF signal and confirm EUT active to normal condition

5.5 Power line conducted Emission Limit according to Paragraph 15.207

| Frequency (MHz) | Limits (dB μ V) | |
|--------------------|---------------------|---------------|
| | Quasi-peak Level | Average Level |
| 0.15 ~ 0.50 | 66.0~56.0* | 56.0~46.0* |
| 0.50 ~ 5.00 | 56.0 | 46.0 |
| 5.00 ~ 30.00 | 60.0 | 50.0 |

Notes: 1. *Decreasing linearly with logarithm of frequency.
2. The tighter limit shall apply at the transition frequencies

5.6 Test Results

N/A

The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz.

Note: EUT powered by AAA battery, this test item not applicable.

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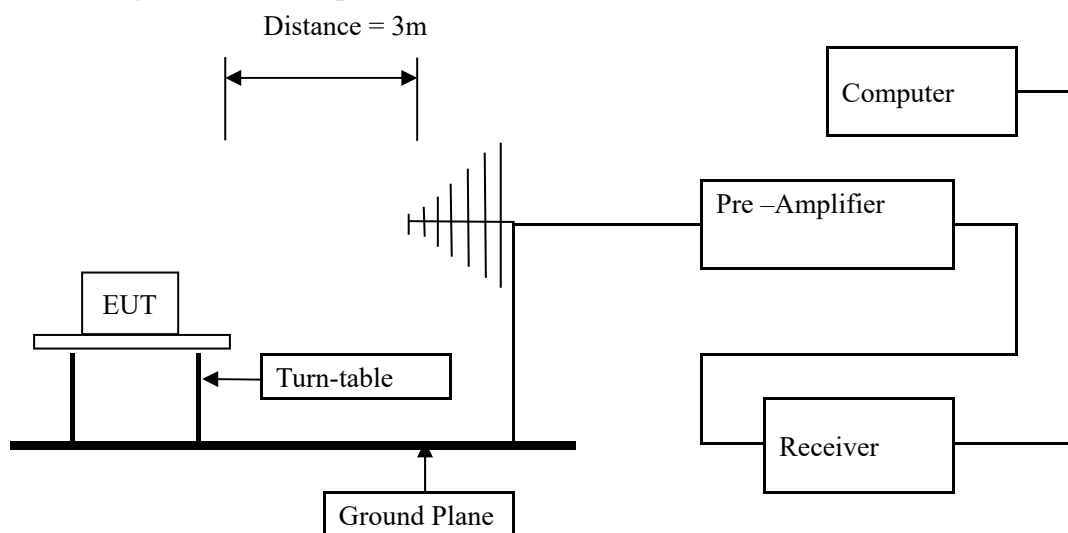


6 Radiated Emission Test

6.1 Test Method and test Procedure:

- (1) The EUT was tested according to ANSI C63.10-2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No.744189
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.10-2013.
- (3) The frequency spectrum from 30 MHz to 25 GHz was investigated. All readings from 30 MHz to 1 GHz are Quasi-peak values with a resolution bandwidth of 120 kHz. For measurement above 1GHz, peak values with RBW=1MHz VBW=3MHz and PK detector. AV value with RBW=1MHz, VBW=3MHz and RMS detector. Measurements were made at 3 meters.
- (4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (5) Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance is with all installation combinations. All data was recorded in the peak detection mode. Quasi-peak readings was performed only when an emission was found to be marginal (within -4 dB of specification limit), and are distinguished with a “QP” in the data table.
- (6) The antenna polarization : Vertical polarization and Horizontal polarization.

Block diagram of Test setup



6.2 Configuration of The EUT

Same as section 5.3 of this report

6.3 EUT Operating Condition

Same as section 5.4 of this report.

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6.4 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

Frequencies in restricted band are complied to limit on Paragraph 15.209

| Frequency Range (MHz) | Distance (m) | Field strength (dB μ V/m) |
|-----------------------|--------------|-------------------------------|
| 30-88 | 3 | 40.0 |
| 88-216 | 3 | 43.5 |
| 216-960 | 3 | 46.0 |
| Above 960 | 3 | 54.0 |

- Note:
1. RF Voltage (dBuV) = 20 log RF Voltage (μ V)
 2. In the Above Table, the higher limit applies at the band edges.
 3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT
 4. This is a handheld device. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand), After pre-test. It was found that the worse radiated emission was get at the lying position.
 5. New battery is used during all test.



Test result

General Radiated Emission Data and Harmonics Radiated Emission Data

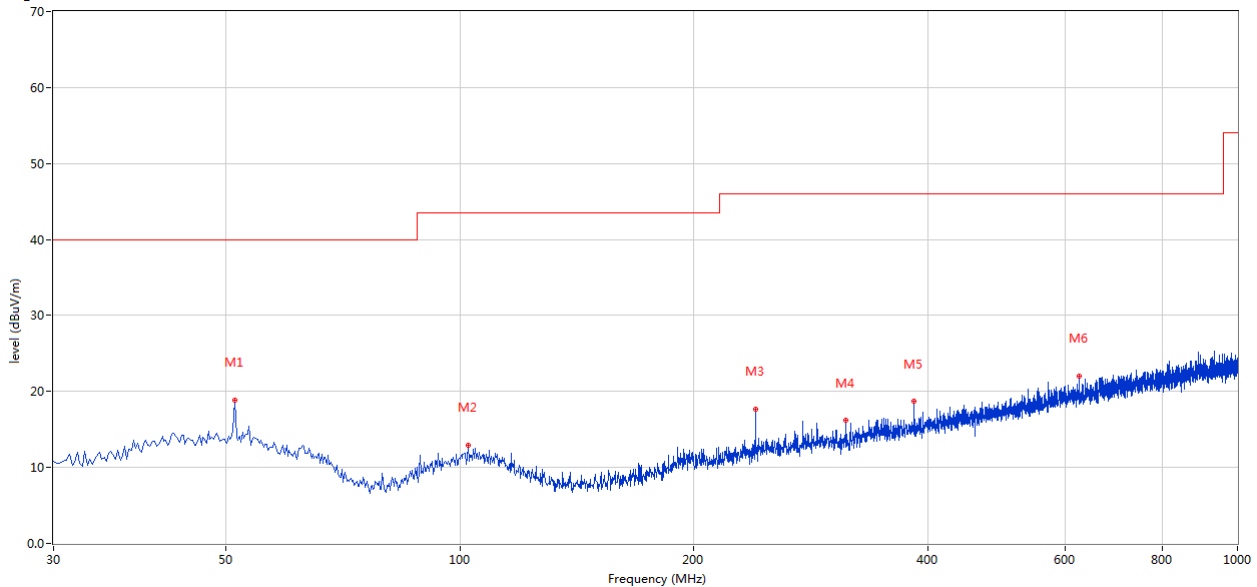
Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Bluetooth Transmitting

Results: Pass

Test Figure:

FCC_FCC Part 15C Class B 30MHz-1GHz



| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Over Limit (dB) | Detector | Table (o) | Height (cm) | ANT | Verdict |
|-----|-----------------|------------------|-------------|----------------|-----------------|----------|-----------|-------------|------------|---------|
| 1 | 51.335 | 18.88 | -11.41 | 40.0 | -21.12 | Peak | 311.00 | 100 | Horizontal | Pass |
| 2 | 102.489 | 12.87 | -13.41 | 43.5 | -30.63 | Peak | 141.00 | 100 | Horizontal | Pass |
| 3 | 239.953 | 17.69 | -12.33 | 46.0 | -28.31 | Peak | 234.00 | 100 | Horizontal | Pass |
| 4 | 313.654 | 16.19 | -10.83 | 46.0 | -29.81 | Peak | 214.00 | 100 | Horizontal | Pass |
| 5 | 383.962 | 18.66 | -9.16 | 46.0 | -27.34 | Peak | 137.00 | 100 | Horizontal | Pass |
| 6 | 626.401 | 22.02 | -4.95 | 46.0 | -23.98 | Peak | 164.00 | 100 | Horizontal | Pass |

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Test result

General Radiated Emission Data and Harmonics Radiated Emission Data

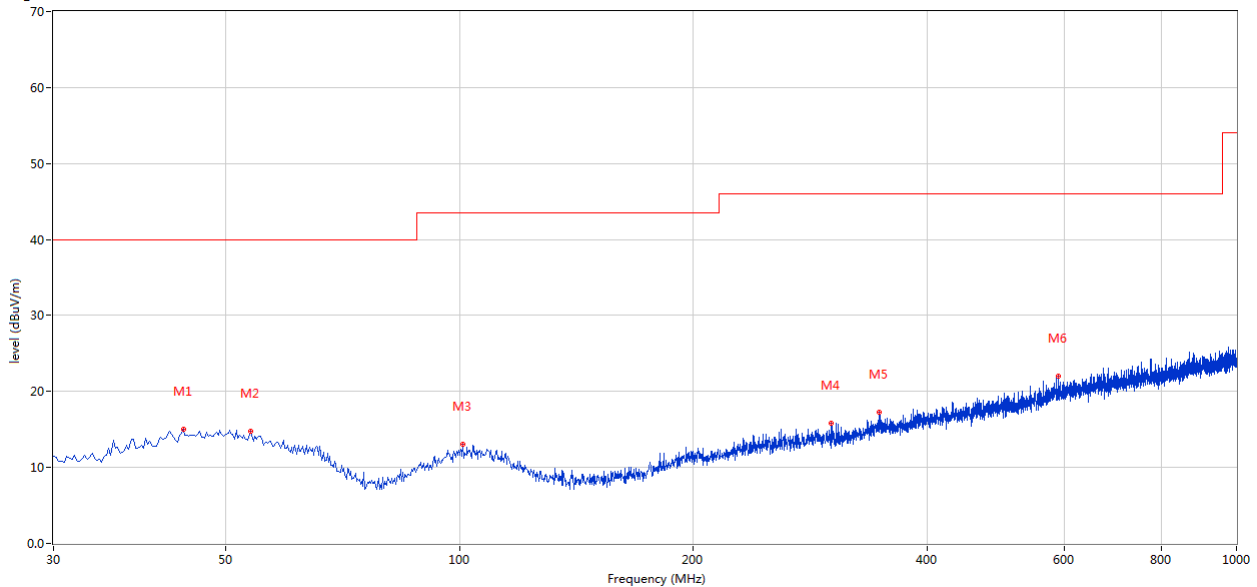
Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: **Keep Transmitting**

Results: Pass

Test Figure:

FCC_FCC Part 15C Class B 30MHz-1GHz



| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Over Limit (dB) | Detector | Table (o) | Height (cm) | ANT | Verdict |
|-----|-----------------|------------------|-------------|----------------|-----------------|----------|-----------|-------------|----------|---------|
| 1 | 44.061 | 15.02 | -11.47 | 40.0 | -24.98 | Peak | 266.00 | 100 | Vertical | Pass |
| 2 | 53.759 | 14.71 | -11.53 | 40.0 | -25.29 | Peak | 273.00 | 100 | Vertical | Pass |
| 3 | 101.035 | 13.00 | -13.46 | 43.5 | -30.50 | Peak | 0.00 | 200 | Vertical | Pass |
| 4 | 300.805 | 15.79 | -11.01 | 46.0 | -30.21 | Peak | 219.00 | 100 | Vertical | Pass |
| 5 | 346.868 | 17.30 | -9.44 | 46.0 | -28.70 | Peak | 191.00 | 100 | Vertical | Pass |
| 6 | 589.550 | 22.07 | -5.09 | 46.0 | -23.93 | Peak | 246.00 | 100 | Vertical | Pass |

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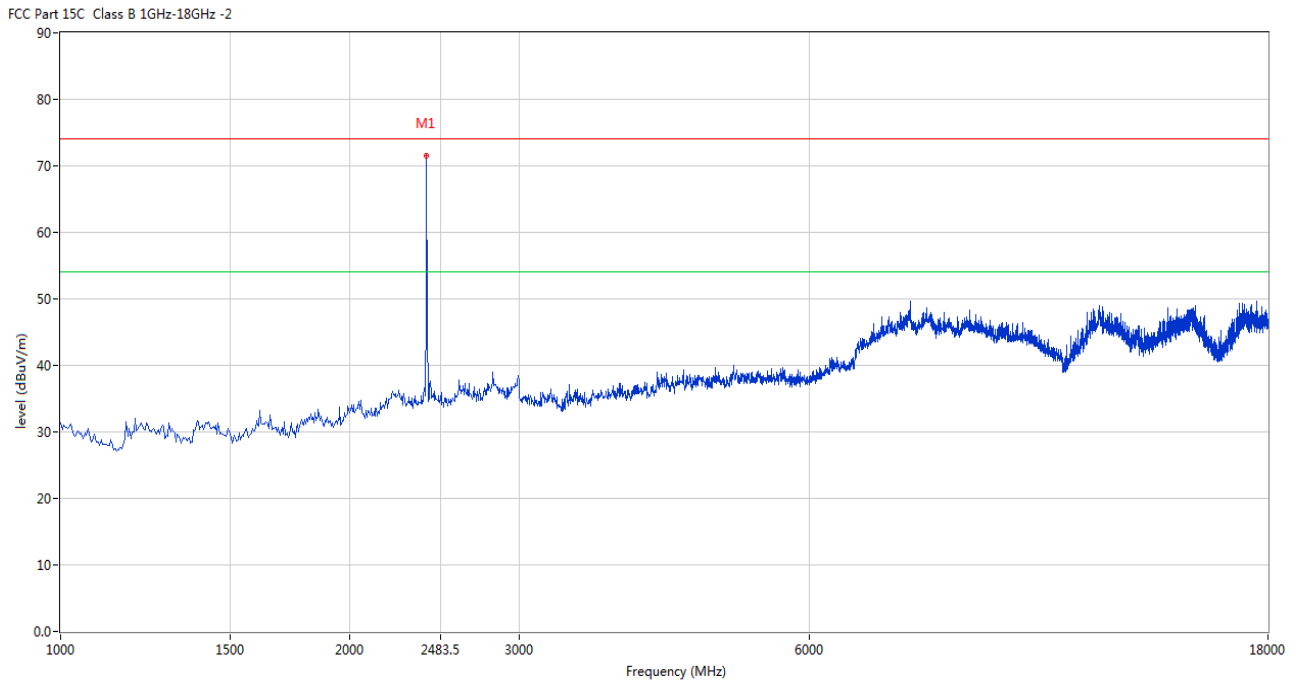
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Test Figures above 1GHz:

Please refer to the following test plots for details:

Low Channel: Vertical



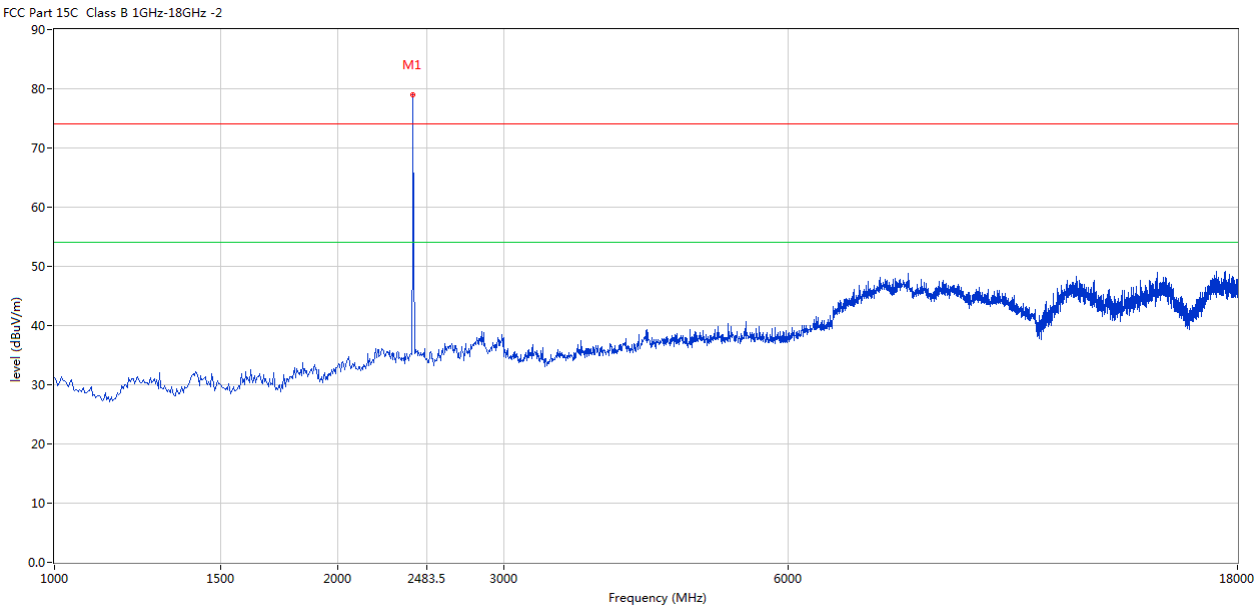
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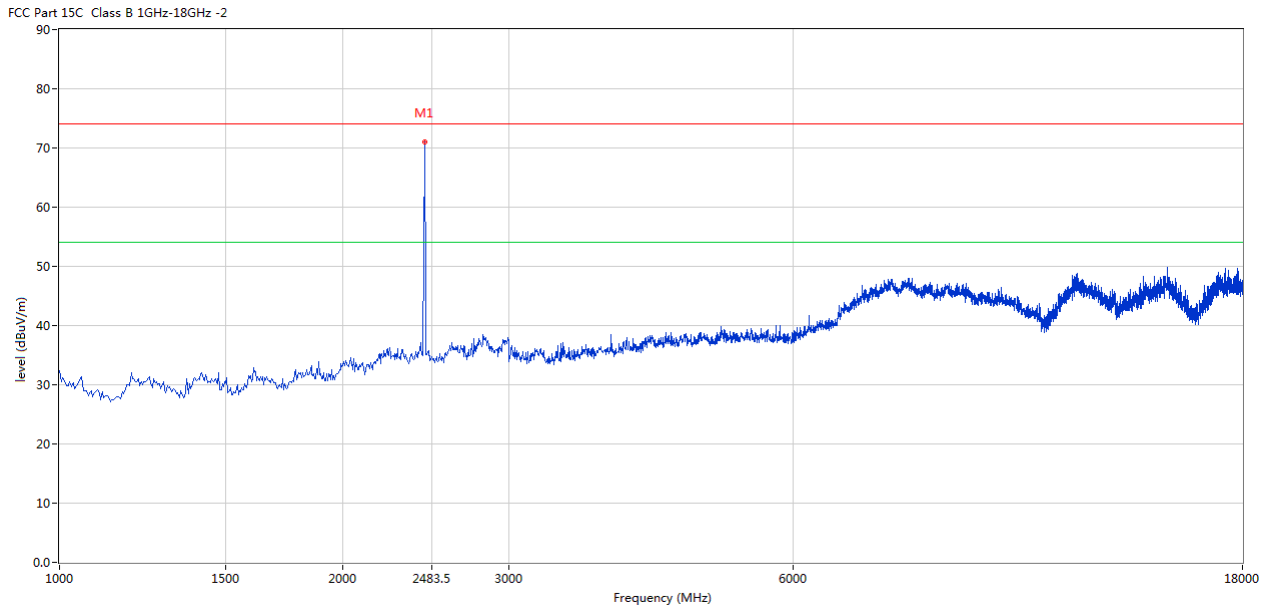
Low Channel: Horizontal



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Middle Channel: Vertical



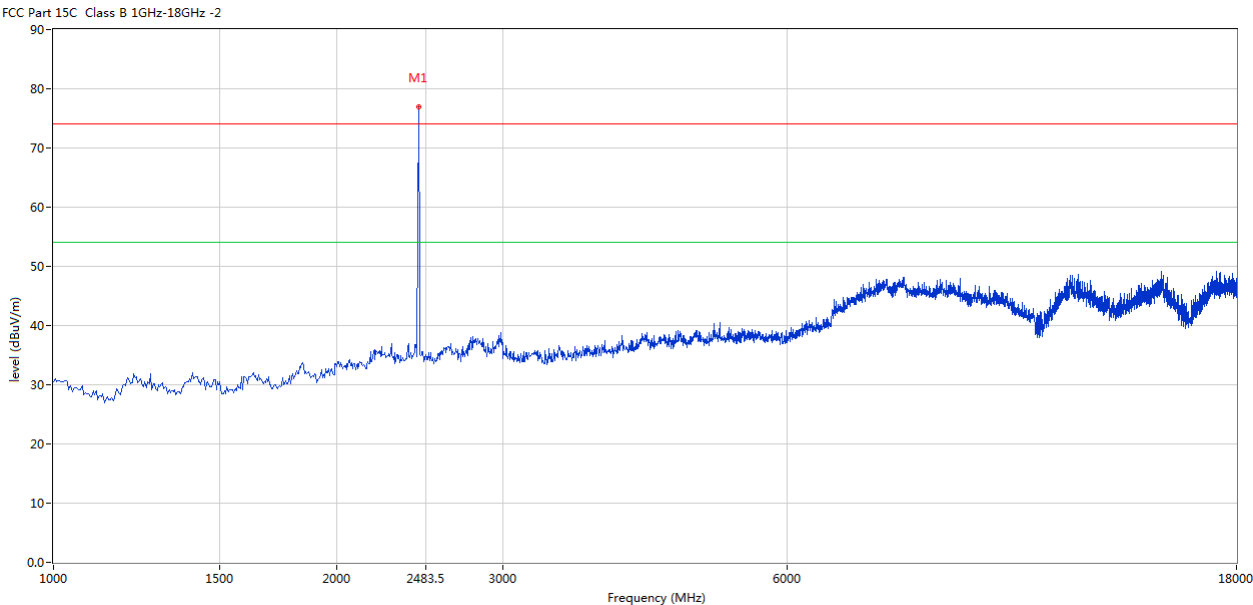
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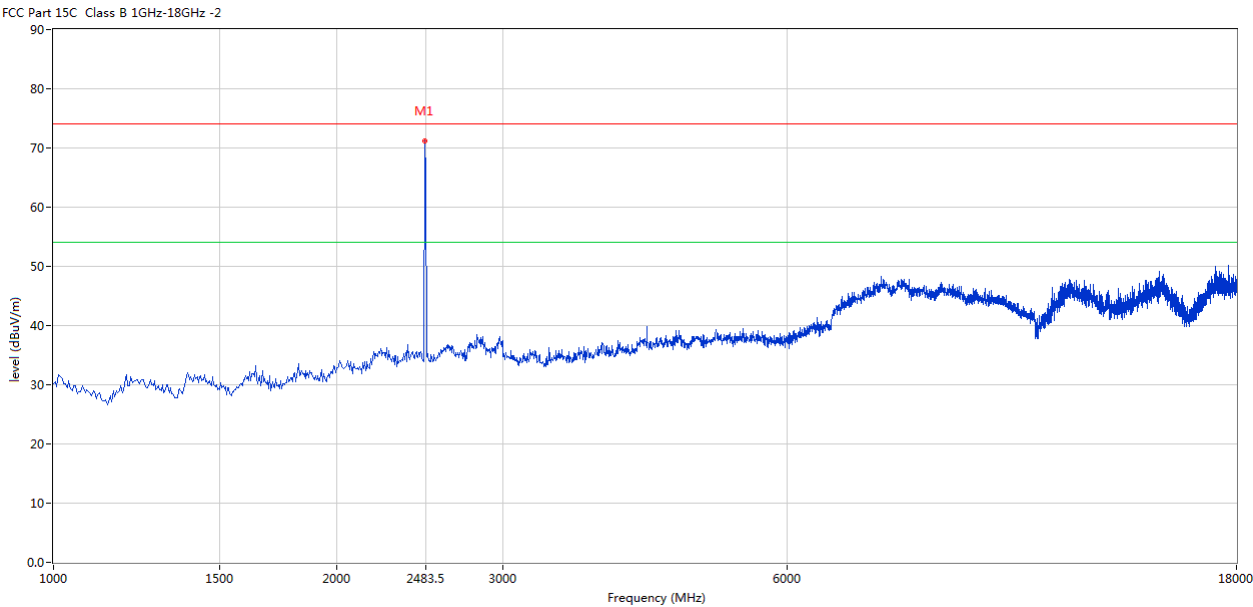
Middle Channel: Horizontal



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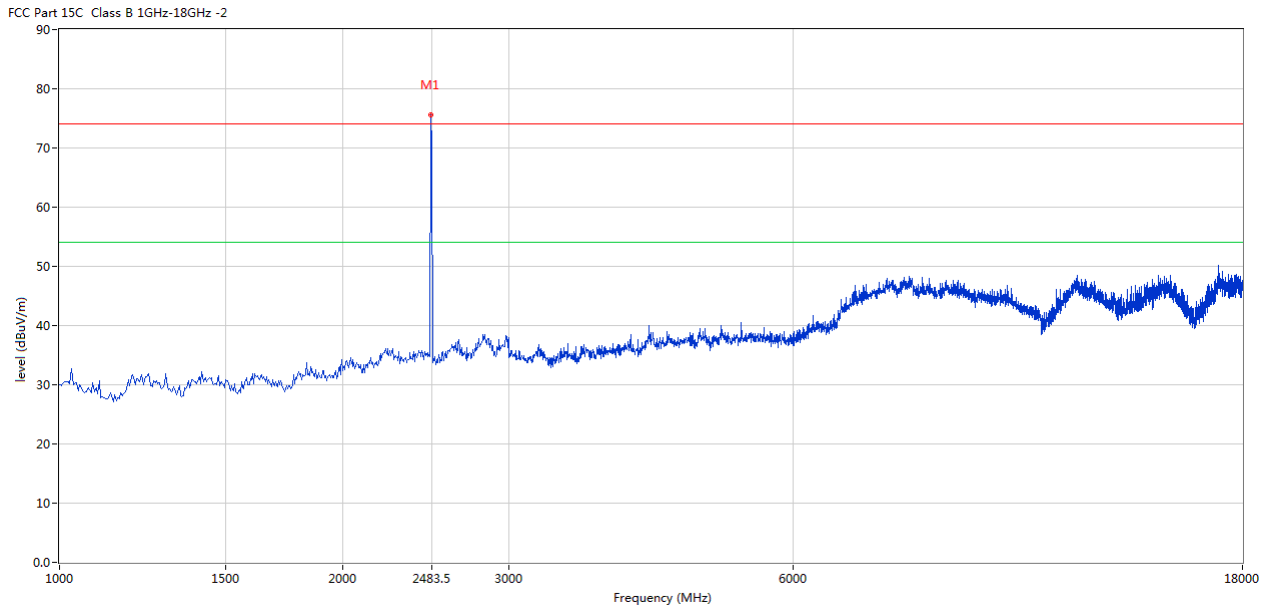
High Channel: Vertical



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High Channel: Horizontal



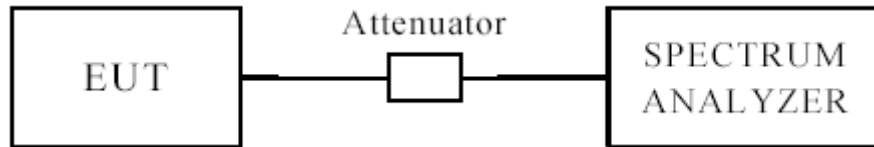
- Note: 1. Level = Reading + AF + Cable - Preamp
2. For the radiated emissions above 18G and below 30MHz, it is the floor noise.

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7.0 6dB Bandwidth Measurement

7.1 Test Setup



7.2 Limits of 6dB Bandwidth Measurement

The minimum of 6dB Bandwidth Measurement is >500 kHz

7.3 Test Procedure

1. Set resolution bandwidth (RBW) = 100 kHz
2. Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

7.4 Test Result

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6dB BW

| EUT | SeaLife SportDiver Underwater Housing for iPhone® | | Model | SportDiver SL400 | |
|-------------|---|----------------------|---------------------|------------------|--|
| Mode | Keep Transmitting | | Input Voltage | DC3.0V | |
| Temperature | 24 deg. C, | | Humidity | 56% RH | |
| Channel | Channel Frequency (MHz) | 6 dB Bandwidth (kHz) | Minimum Limit (kHz) | Pass/ Fail | |
| Low | 2402 | 702 | 500 | Pass | |
| Middle | 2440 | 732 | 500 | Pass | |
| High | 2480 | 732 | 500 | Pass | |

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Ref 10 dBm *Att 20 dB SWT 2.5 ms 2.401820000 GHz

1 PK MAXH

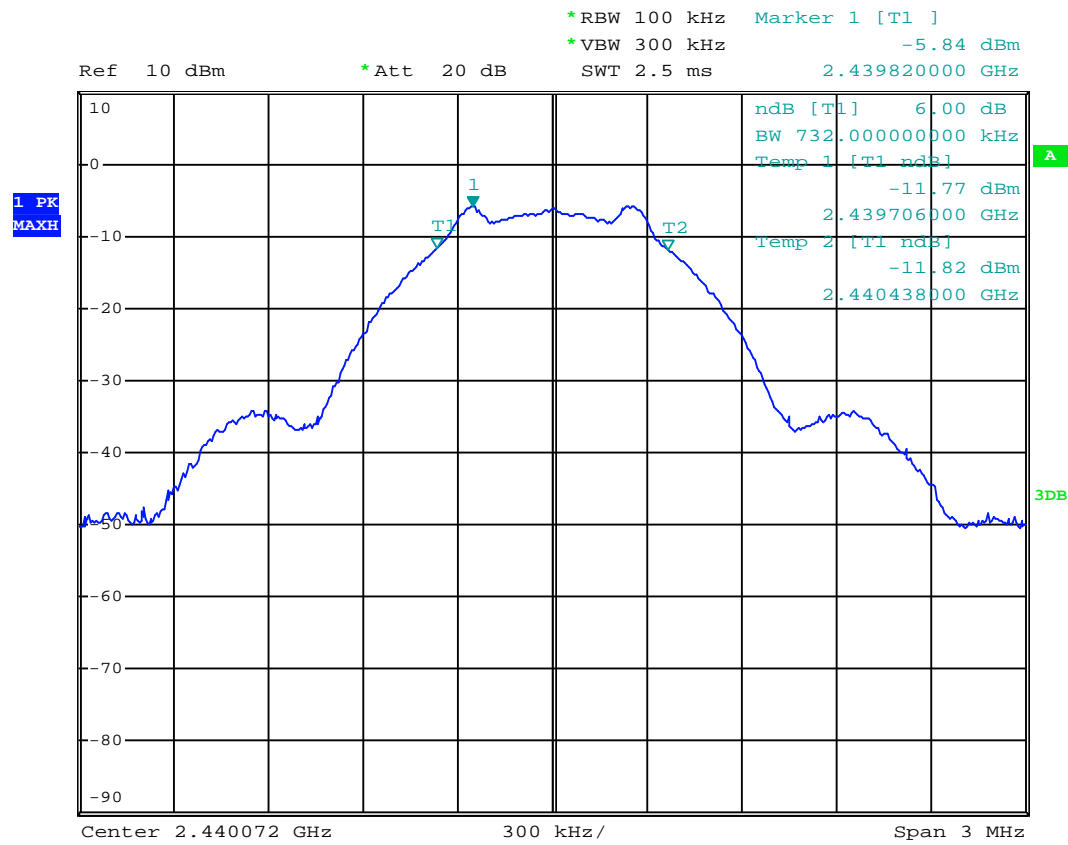
1 6.00 dB
BW 702.000000000 kHz
Temp 1 [T1 ndB] -11.20 dBm
2.401718000 GHz
Temp 2 [T1 ndB] -11.35 dBm
2.402420000 GHz

Center 2.40209 GHz 300 kHz/ Span 3 MHz

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2. Condition: Middle Channel

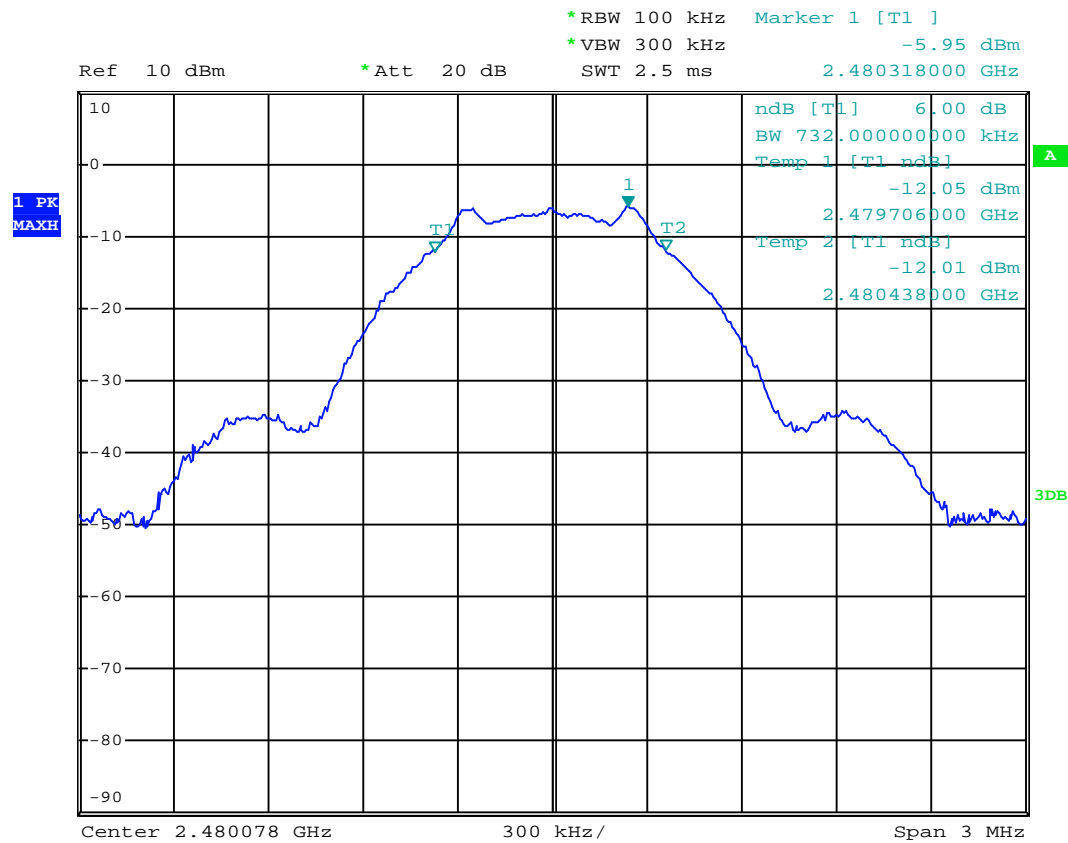


Date: 27.AUG.2020 16:12:58

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3. High Channel



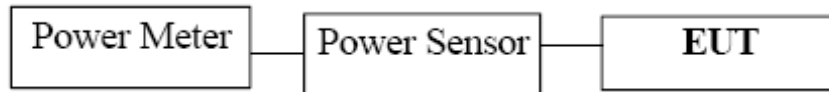
Date: 27.AUG.2020 16:10:03

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8. Maximum Output Power

8.1 Test Setup



8.2 Limits of Maximum Output Power

The Maximum Output Power Measurement is 30dBm.

8.3 Test Procedure

The RF power output was measured with a Power meter connected to the RF Antenna connector (conducted measurement) while EUT was operating in transmit mode at the appropriate centre frequency.

Note: The Peak power were measured.

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8.4 Test Results

| | | | | | | |
|-------------|----------------------------|---|--|---------------|------------------------------|------------|
| EUT | | SeaLife SportDiver Underwater Housing for iPhone® | | Model | SportDiver SL400 | |
| Mode | | Keep Transmitting | | Input Voltage | DC3.0V | |
| Temperature | | 24 deg. C, | | Humidity | 56% RH | |
| Channel | Channel Frequency (MHz) | Max. Power Output (dBm) | | | Peak Power Limit (dBm) | Pass/ Fail |
| | | Peak | | | | |
| Low | 2402 | -4.90 | | | 30 | Pass |
| Middle | 2440 | -4.83 | | | 30 | Pass |
| High | 2480 | -5.17 | | | 30 | Pass |

Note: 1. the result basic equation calculation as follow:

$$\text{Max. Power Output} = \text{Power Reading} + \text{Cable loss} + \text{Attenuator}$$

The report refers only to the sample tested and does not apply to the bulk.

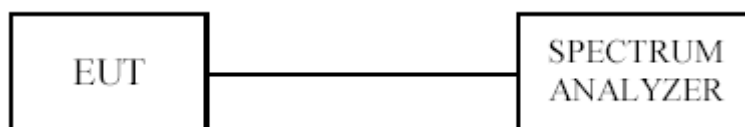
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9. Power Spectral Density Measurement

9.1 Test Setup



9.2 Limits of Power Spectral Density Measurement

The Maximum Power Spectral Density Measurement is 8dBm.

9.3 Test Procedure

1. Use this procedure when the maximum peak conducted output power in the fundamental emission is used to demonstrate compliance.
2. Set the RBW = 10 kHz.
3. Set the VBW \geq 30 kHz.
4. Set the span to 1.5 times the DTS channel bandwidth.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.
11. The resulting peak PSD level must be \leq 8 dBm.

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9.4 Test Result

| | | | | | | |
|-------------|--------------------------------|---|---------------------------------------|------------------|---------------------------|------------|
| EUT | | SeaLife SportDiver Underwater Housing for iPhone® | | Model | SportDiver SL400 | |
| Mode | | Keep Transmitting | | Input Voltage | DC3.0V | |
| Temperature | | 24 deg. C, | | Humidity | 56% RH | |
| Channel | Peak Power Reading (dBm) | Cable Loss (dB) | Final Power Spectral Density (dBm) | | Maximum Limit (dBm) | Pass/ Fail |
| | | | | | | |
| Low | -9.22 | 0.2 | -9.02 | | 8 | Pass |
| Middle | -9.75 | 0.2 | -9.55 | | 8 | Pass |
| High | -9.59 | 0.2 | -9.39 | | 8 | Pass |

Note: The result basic equation calculation as follow:

$$\text{Peak Power Output} = \text{Peak Power Reading} + \text{Cable loss}$$

The report refers only to the sample tested and does not apply to the bulk.

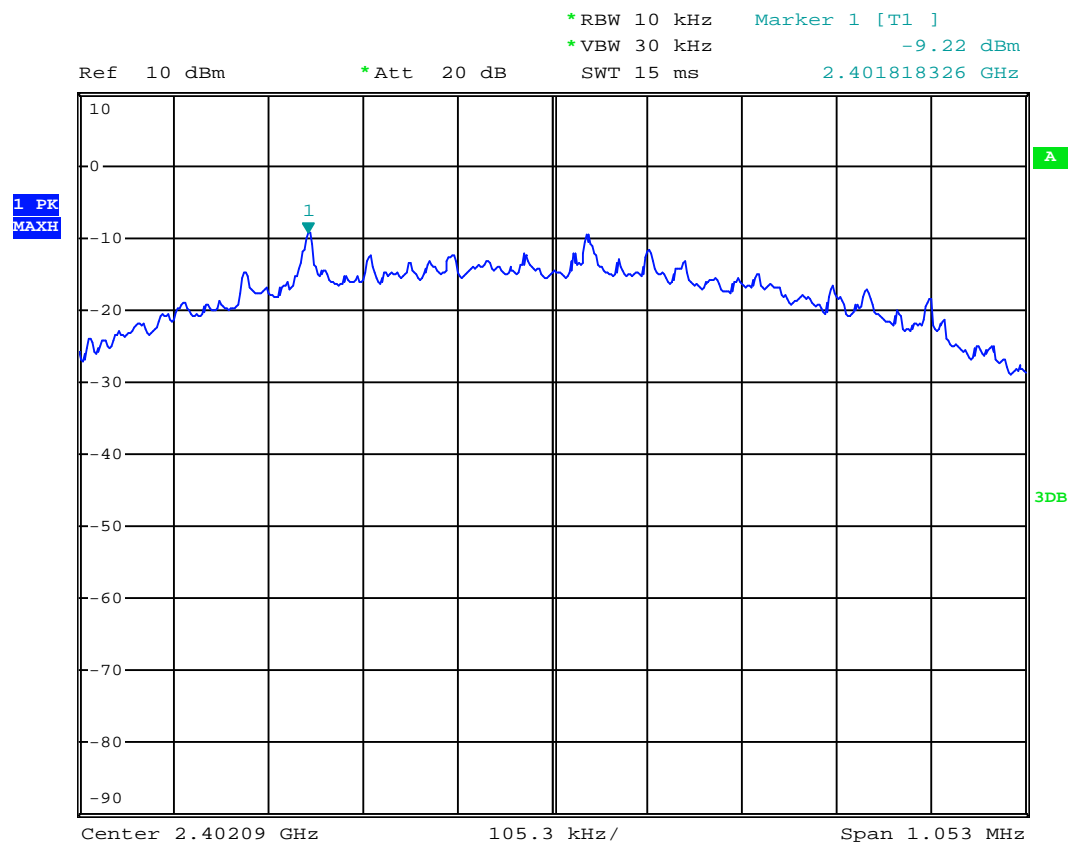
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Test Figure:

1. Condition: Low Channel

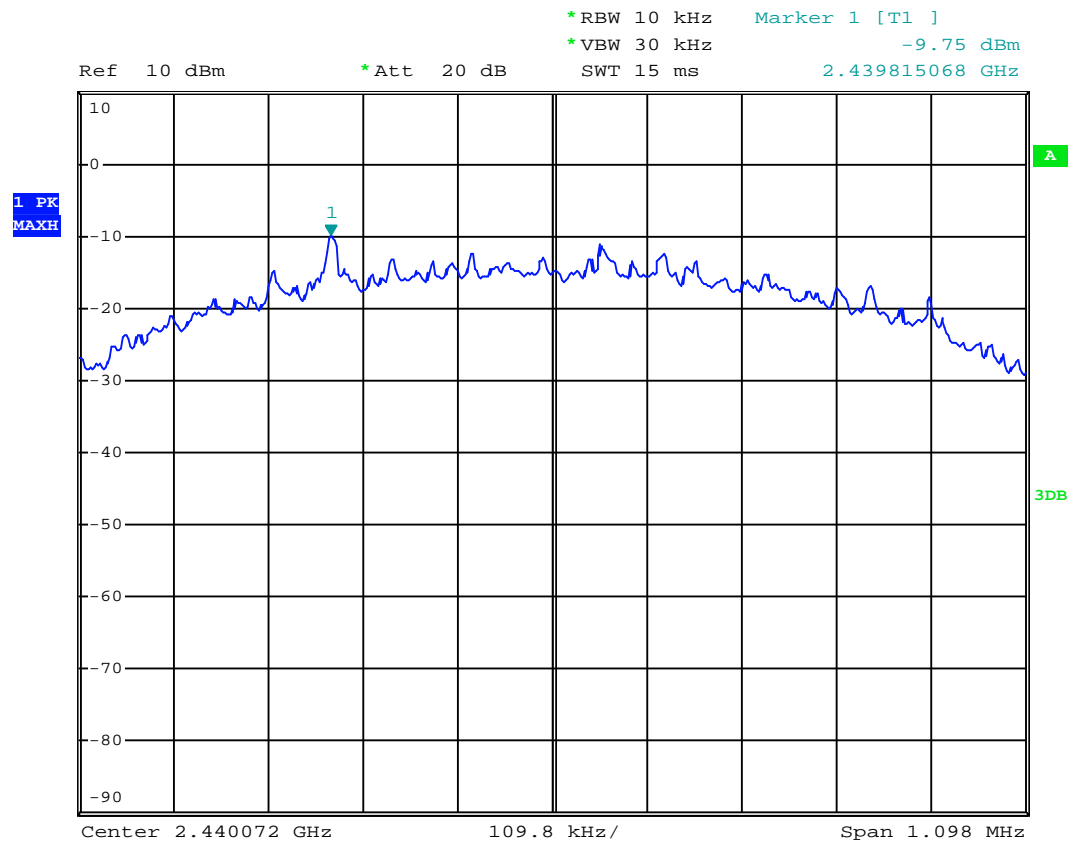


Date: 27.AUG.2020 16:25:18

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2. Condition: Middle Channel

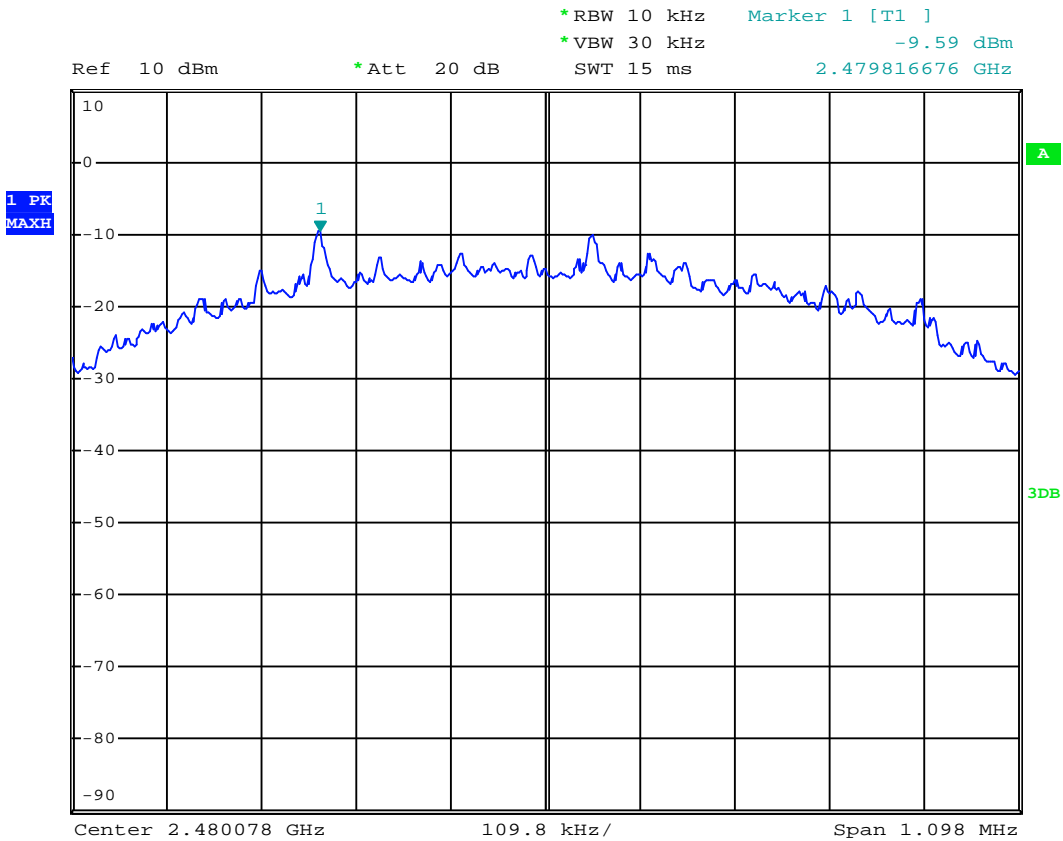


Date: 27.AUG.2020 16:26:34

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3. High Channel



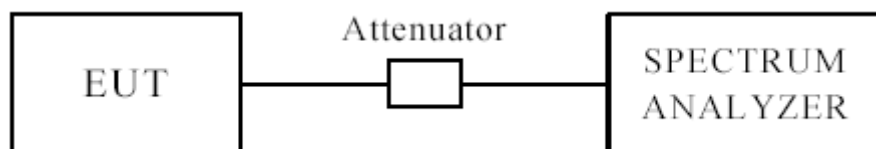
Date: 27.AUG.2020 16:22:29

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10 Out of Band Measurement

10.1 Test Setup for band edge



The restricted band requirement based on radiated emission test; please see the clause 6 for the test setup

10.2 Limits of Out of Band Emissions Measurement

1. Below -20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).
2. Fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209.

10.3 Test Procedure

For signals in the restricted bands above and below the 2.4-2.483GHz allocated band a measurement was made of Radiated emission test. (Peak values with RBW=1MHz, VBW=3MHz and PK detector. AV value with RBW=1MHz, VBW=3MHz and RMS detector)

For bandage test, the spectrum set as follows: RBW=100 kHz, VBW=300 kHz. A conducted measurement used

10.4 Test Result

Please see next pages

Note: 1. For band-edge measurement, the frequency from 30MHz-25GHz was tested. And It met the FCC rule.

2. This is a handheld device. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand), After pre-test. It was found that the worse radiated emission was get at the lying position.

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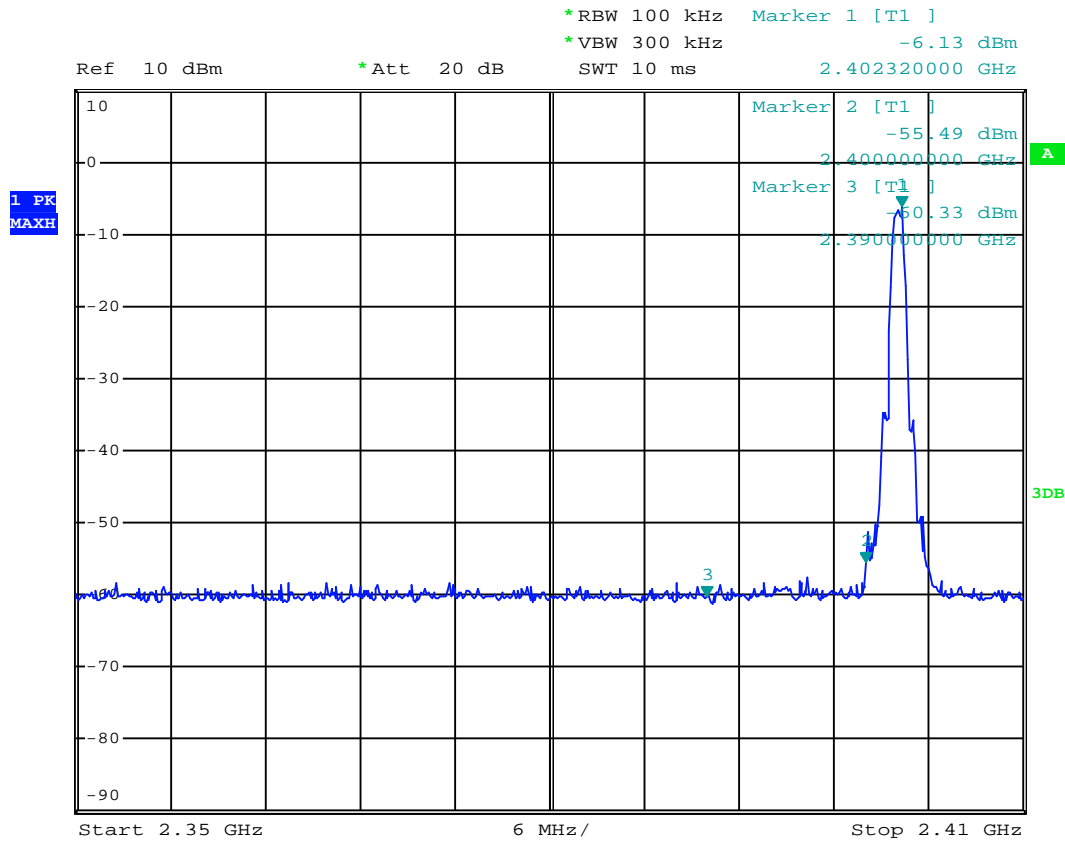
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10.4 Band-edge Measurement

| | | | |
|--------------|---|---------------|------------------|
| EUT | SeaLife SportDiver Underwater Housing for iPhone® | Model | SportDiver SL400 |
| Mode | Keep Transmitting | Input Voltage | DC3.0V |
| Temperature | 24 deg. C, | Humidity | 56% RH |
| Test Result: | Pass | Detector | PK |

Test Figure:



Date: 27.AUG.2020 16:28:53

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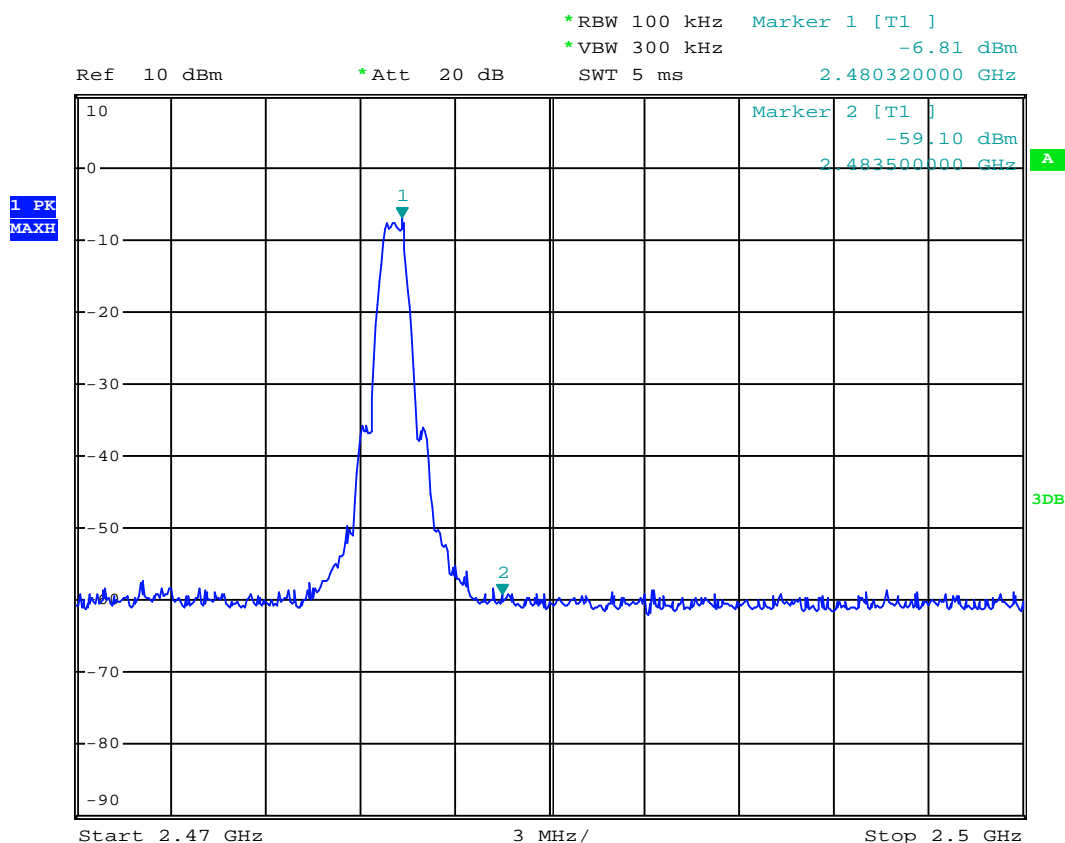
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10.4 Band-edge Measurement

| | | | |
|--------------|---|---------------|------------------|
| EUT | SeaLife SportDiver Underwater Housing for iPhone® | Model | SportDiver SL400 |
| Mode | Keeping Transmitting | Input Voltage | DC3.0V |
| Temperature | 24 deg. C, | Humidity | 56% RH |
| Test Result: | Pass | Detector | PK |

Test Figure:



Date: 27.AUG.2020 16:27:54

The report refers only to the sample tested and does not apply to the bulk.

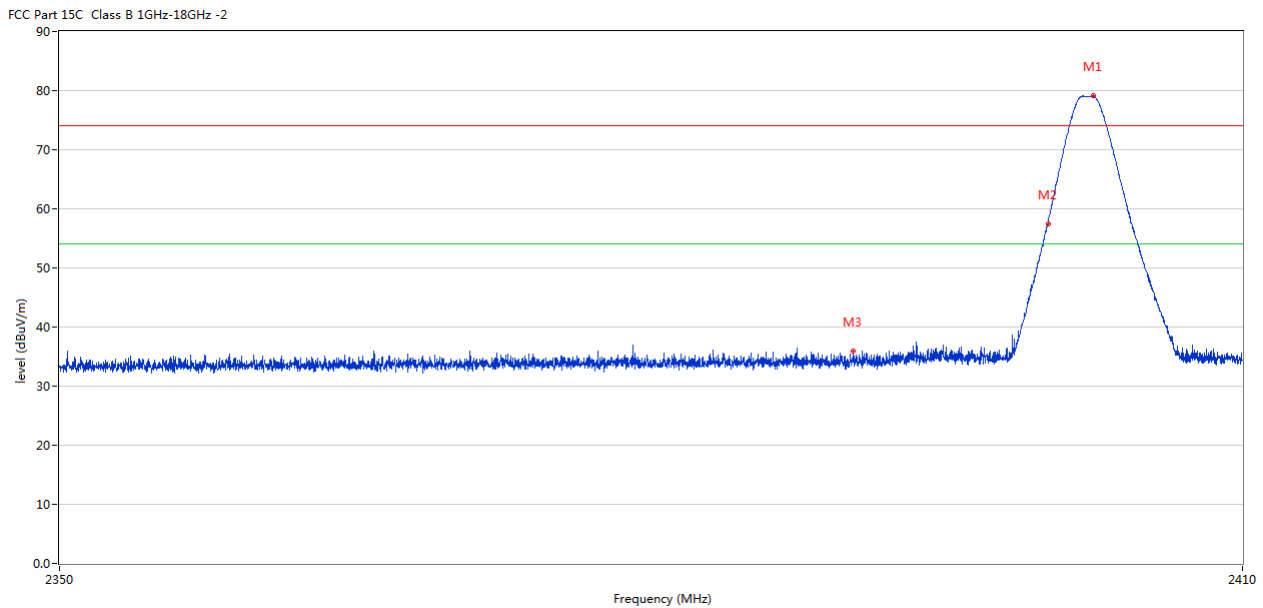
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10.4 Restrict Band Measurement

| | | | |
|--------------|---|---------------|------------------|
| EUT | SeaLife SportDiver Underwater Housing for iPhone® | Model | SportDiver SL400 |
| Mode | Keep Transmitting | Input Voltage | DC3.0V |
| Temperature | 24 deg. C, | Humidity | 56% RH |
| Test Result: | Pass | | |



| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Over Limit (dB) | Detector | Table (o) | Height (cm) | ANT | Verdict |
|-----|--------------------|---------------------|----------------|-------------------|--------------------|----------|-----------|----------------|------------|---------|
| 3 | 2390.100 | 35.92 | -3.53 | 54.0 | -18.08 | Peak | 144.00 | 100 | Horizontal | Pass |


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10.4 Restrict Band Measurement

| | | | | | | | | | | |
|---|---|------------------|------------------|----------------|-----------------|----------|-----------|-------------|----------|---------|
| EUT | SeaLife SportDiver Underwater Housing for iPhone® | Model | SportDiver SL400 | | | | | | | |
| Mode | Keep Transmitting | Input Voltage | DC3.0V | | | | | | | |
| Temperature | 24 deg. C, | Humidity | 56% RH | | | | | | | |
| Test Result: | Pass | | | | | | | | | |
| FCC Part 15C Class B 1GHz-18GHz -2 | | | | | | | | | | |
|  | | | | | | | | | | |
| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Over Limit (dB) | Detector | Table (o) | Height (cm) | ANT | Verdict |
| 3 | 2390.025 | 35.16 | -3.53 | 54.0 | -18.84 | Peak | 186.00 | 100 | Vertical | Pass |

The report refers only to the sample tested and does not apply to the bulk.

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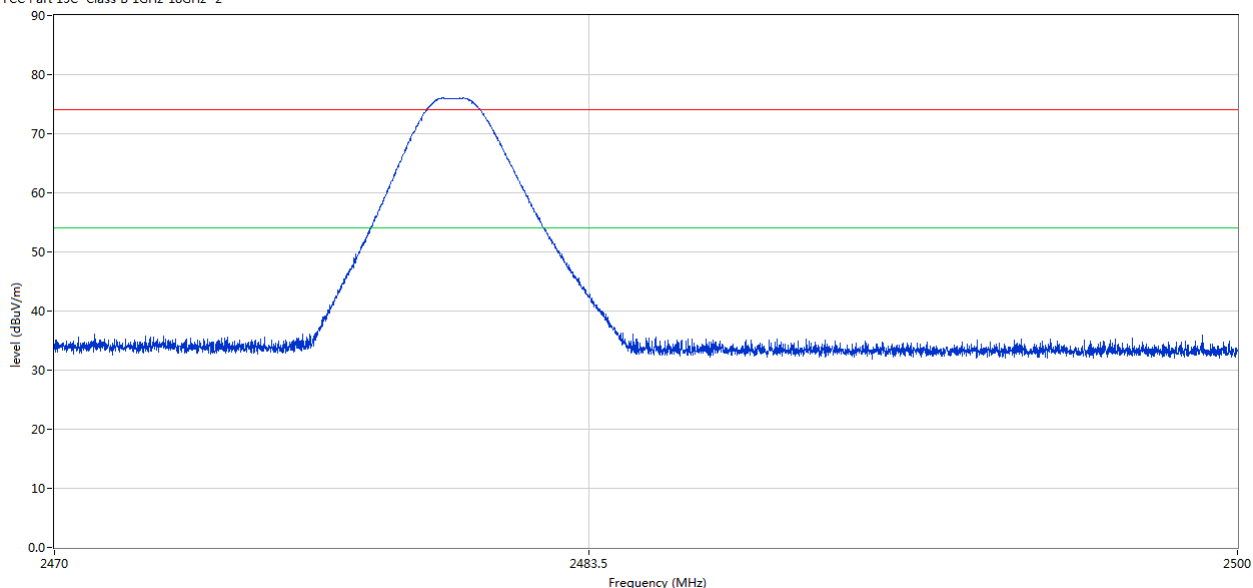
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10.4 Restrict Band Measurement

| | | | |
|--------------|---|---------------|------------------|
| EUT | SeaLife SportDiver Underwater Housing for iPhone® | Model | SportDiver SL400 |
| Mode | Keep Transmitting | Input Voltage | DC3.0V |
| Temperature | 24 deg. C, | Humidity | 56% RH |
| Test Result: | Pass | | |

FCC Part 15C Class B 1GHz-18GHz -2



| No | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Over Limit (dB) | Detector | Table (o) | Height (cm) | ANT | Verdict |
|----|--------------------|---------------------|----------------|-------------------|--------------------|----------|-----------|----------------|------------|---------|
| 2 | 2483.517 | 41.51 | -3.57 | 54.0 | -12.49 | Peak | 120.00 | 100 | Horizontal | Pass |

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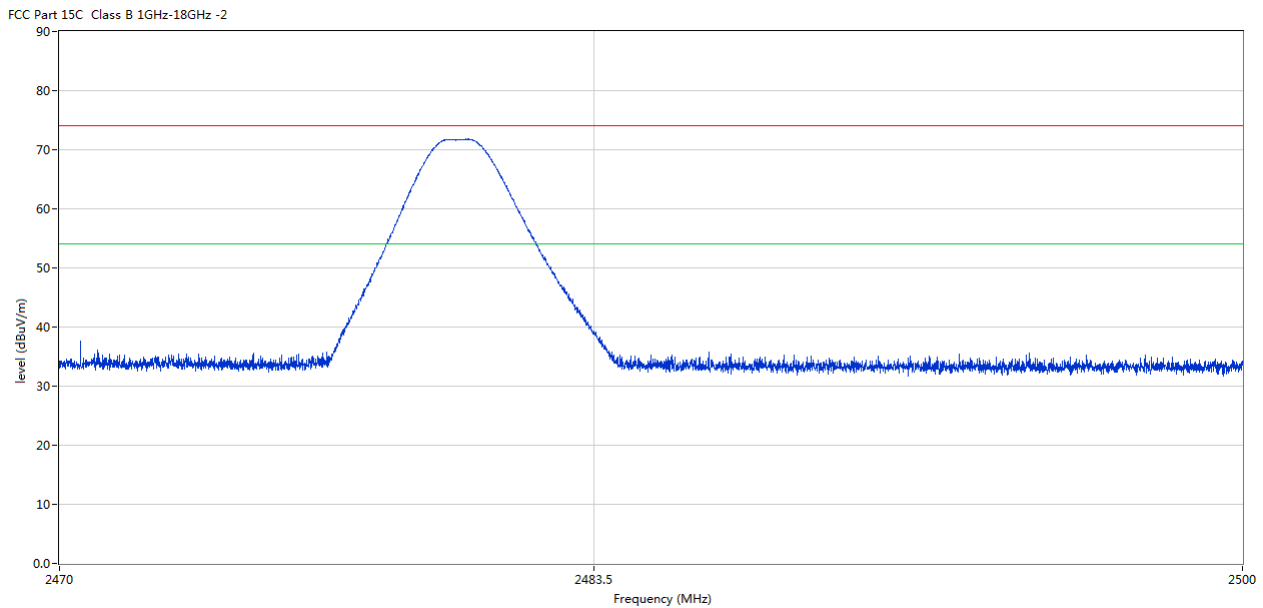
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10.4 Restrict Band Measurement

| | | | |
|--------------|---|---------------|------------------|
| EUT | SeaLife SportDiver Underwater Housing for iPhone® | Model | SportDiver SL400 |
| Mode | Keep Transmitting | Input Voltage | DC3.0V |
| Temperature | 24 deg. C, | Humidity | 56% RH |
| Test Result: | Pass | | |



| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Over Limit (dB) | Detector | Table (o) | Height (cm) | ANT | Verdict |
|-----|-----------------|------------------|-------------|----------------|-----------------|----------|-----------|-------------|----------|---------|
| 2 | 2483.422 | 40.20 | -3.57 | 54.0 | -13.80 | Peak | 340.00 | 100 | Vertical | Pass |

Note: The measured PK value less than the AV limit, no necessary to take down the AV measurement result.

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11.0 Antenna Requirement

11.1 Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

And according to FCC 47 CFR Section 15.247 (b), if transmitter antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

11.2 Antenna Connected construction

PCB antenna used. The gain of the antennas is -0.30dBi. (get from the document provided the manufacturer)

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12.0 FCC ID Label

FCC ID: 2ACKF-SL400

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

Mark Location:



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13.0 Photo of testing

Radiated Emission Test Setup:



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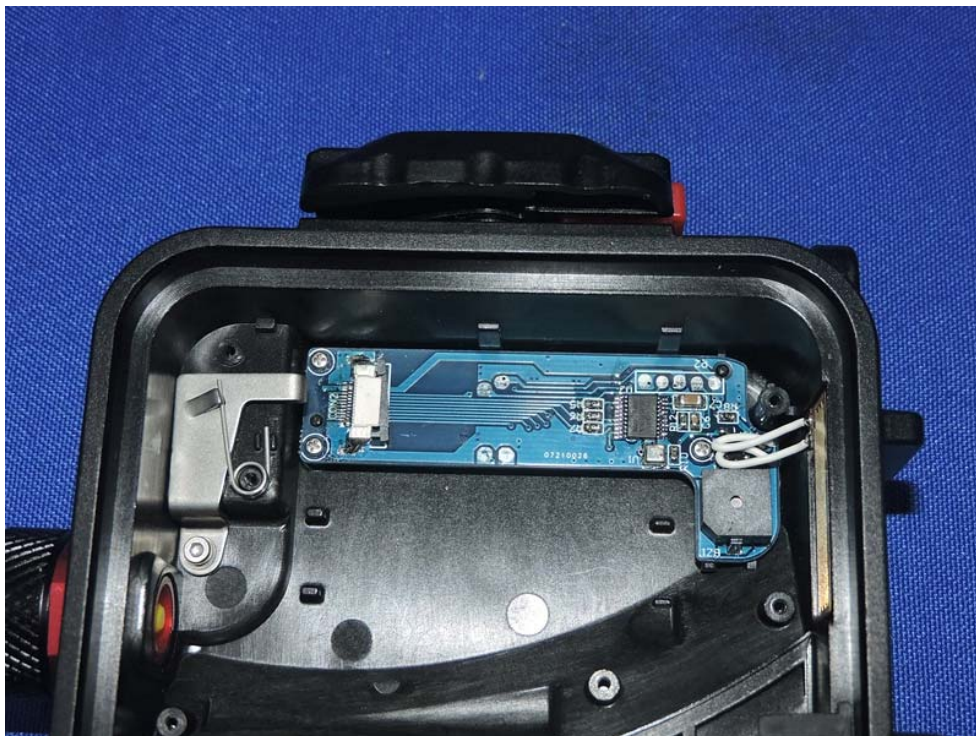
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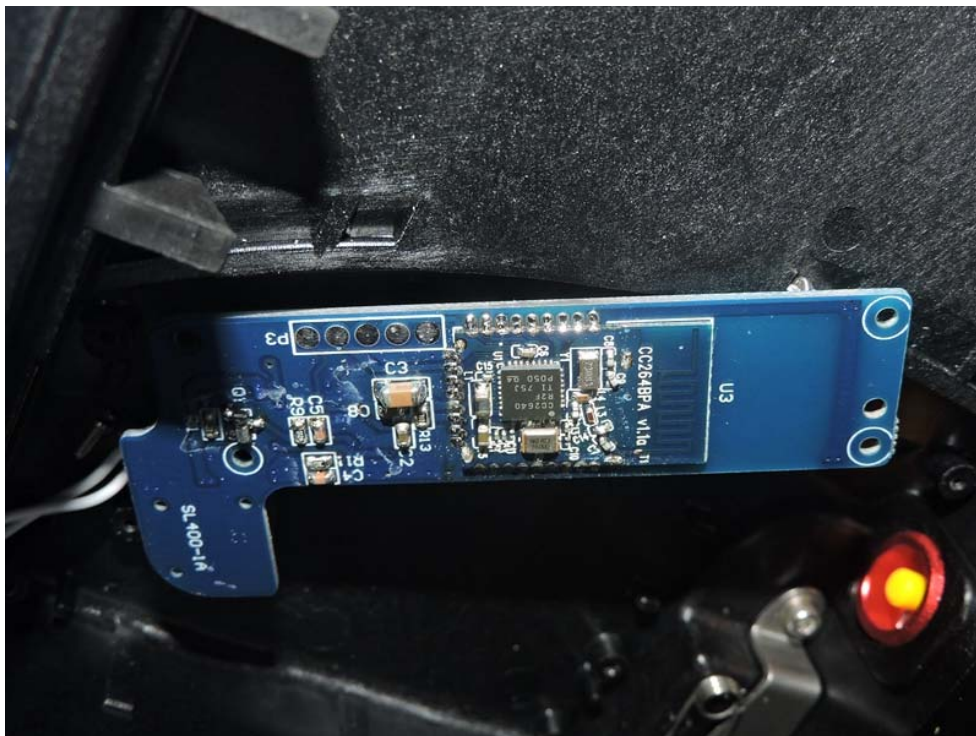
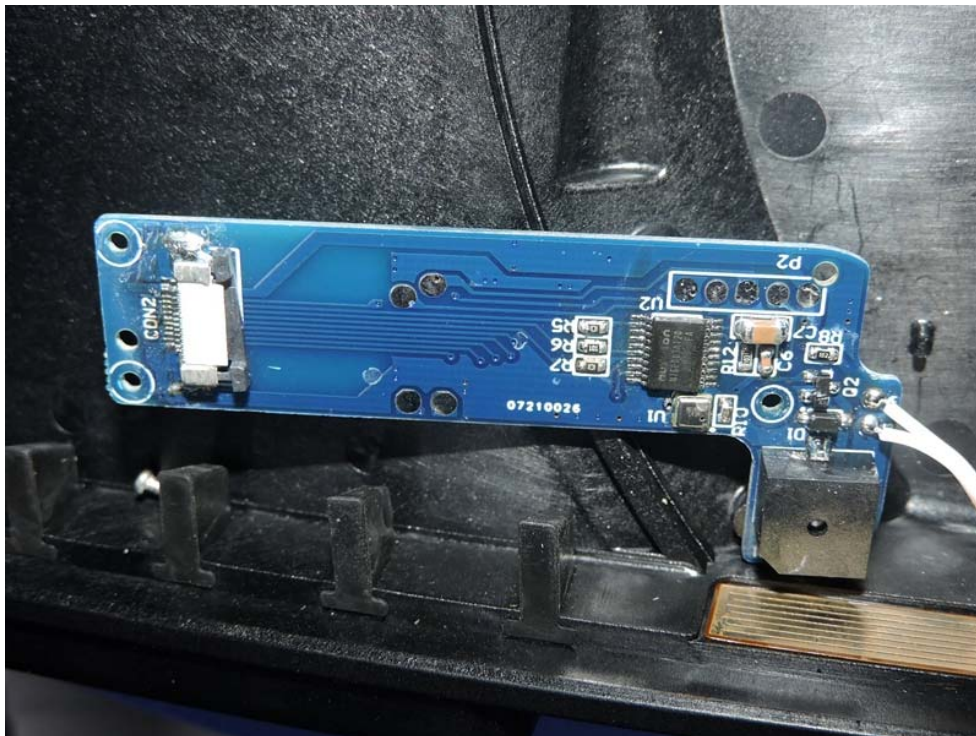
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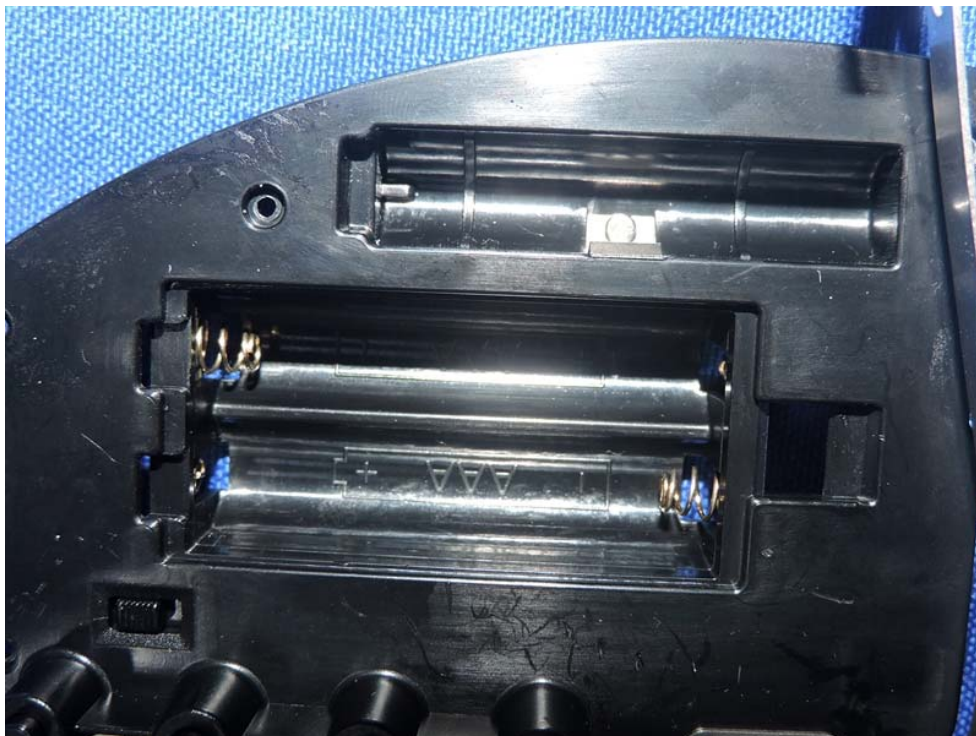
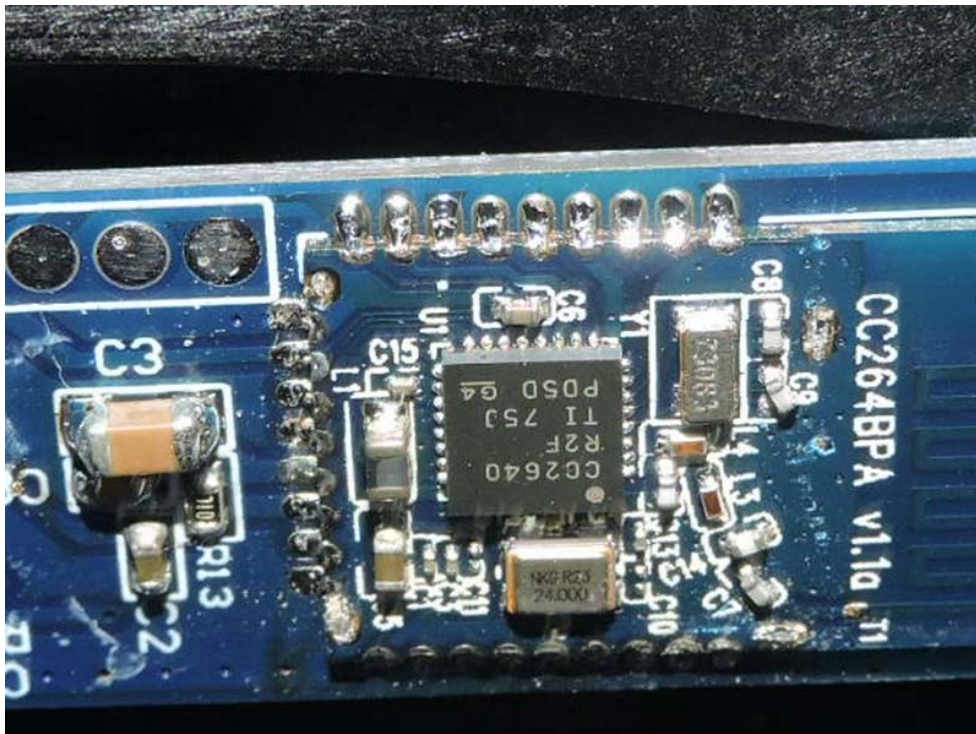
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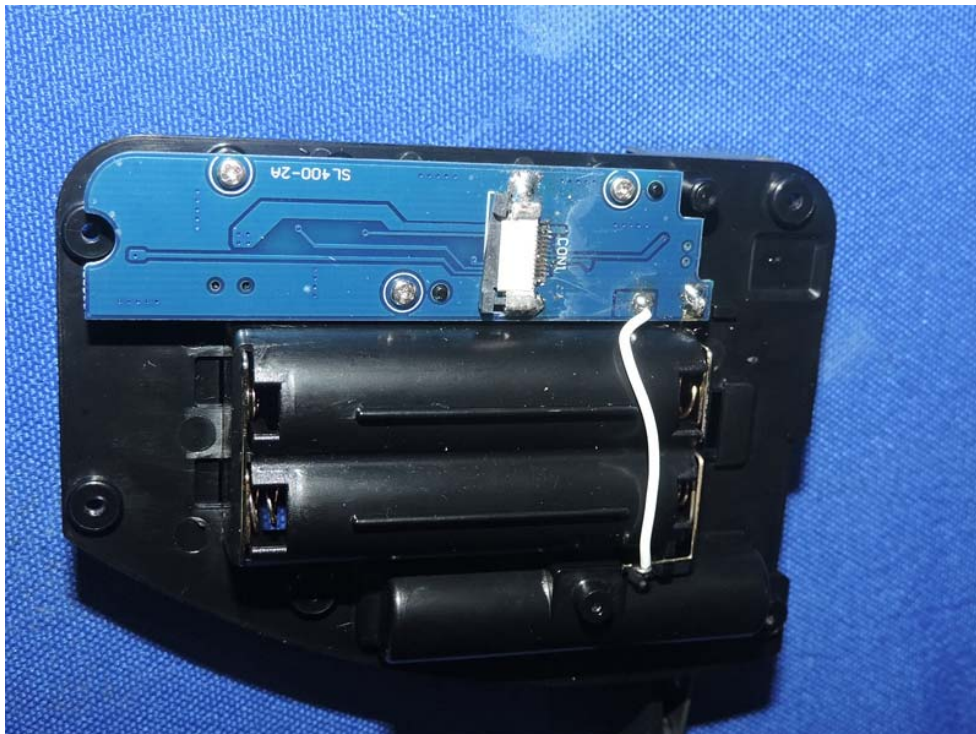
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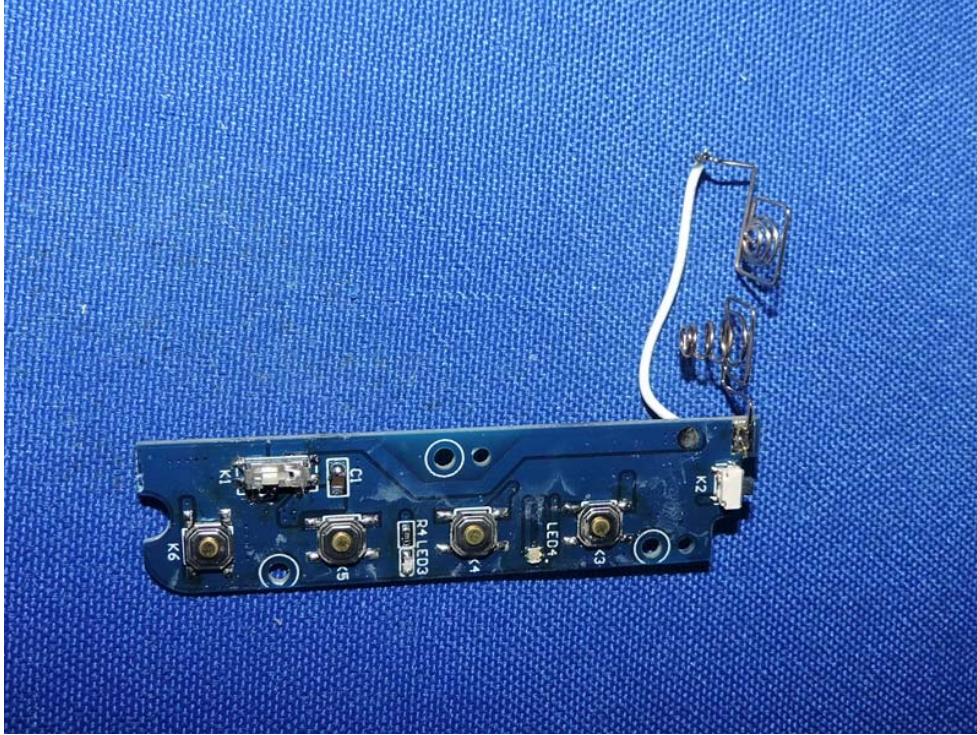
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End of the report

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