# FCC - TEST REPORT

| | | | | | |
|---|---|---|---|---|---|
| Report Number | : | **60.790.17.008.01** | Date of Issue | : | September 15, 2017 |
| Model | : | **Cycle Computer: VDO M6.1;<br>Docking Station: VDO DS M6.1** | | | |
| Product Type | : | **Cycle Computer and Docking Station** | | | |
| Applicant | : | Cycle Parts GmbH | | | |
| Address | : | Le Quartier Hornbach 13, Neustadt/Weinstrasse D-67433, Germany | | | |
| Production Facility | : | Sigma-Elektro (Hong Kong) Ltd | | | |
| Address | : | Room 2010, 20/F, No.1 Hung To Road, Kwun Tong, Kowloon, Hong Kong | | | |
| Test Result | : | ■**Positive** ☐**Negative** | | | |
| Total pages including Appendices | : | 29 | | | |

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# 1. Table of Contents





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# 2. Details about the Test Laboratory

**Details about the Test Laboratory**

| | |
|---|---|
| Company name: | TÜV SÜD Cert and Testing (China) Co., Ltd.<br>Building 12&13, Zhiheng Wisdomland Business Park,<br>Nantou Checkpoint Road 2, Nanshan District,<br>Shenzhen City, 518052,<br>P. R. China |
| FCC Registration Number: | 514049 |
| Telephone: | 86 755 8828 6998 |
| Fax: | 86 755 8828 5299 |

# 3. Description of Equipment Under Test

**Description of the Equipment Under Test**

| | |
|---|---|
| Product: | Cycle Computer and Docking Station |
| Model no.: | Cycle Computer: VDO M6.1<br>Docking Station: VDO DS M6.1 |
| FCC ID: | TFOM61 |
| Frequency: | 112kHz (Receive only) |
| Antenna Type: | Integral |
| Antenna Gain: | 0 dBi |
| Rating: | VDO M6.1: 3.0VDC (1 x 3.0VDC “CR2450“ size battary)<br>VDO DS 6.1: 5.0VDC (From USB Port) |

# 4. Summary of Test Standards

| Test Standards | |
|---|---|
| FCC Part 15 Subpart B<br>10-1-16 Edition | Unintentional Radiators |

# 5. Summary of Test Results

| Emission Tests | | | | |
|---|---|---|---|---|
| **FCC Part 15 Subpart B** | | | | |
| Test Condition | Pages | Test Result | | |
| | | Pass | Fail | N/A |
| FCC Title 47 Part 15.109<br>Radiated Emission 30MHz-1000MHz | 11-15 | ☒ | ☐ | ☐ |
| FCC Title 47 Part 15.107<br>Conduct Emission 150kHz-30MHz | 8-10 | ☒ | ☐ | ☐ |



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# 6. General Remarks

**Remarks**

120VAC / 60Hz and 240VAC / 50Hz operation conditions have been tested. Only worse case data is shown.

**SUMMARY:**

- All tests according to the regulations cited on page 5 were

  ■ - Performed

  ☐ - **Not** Performed

- The Equipment Under Test

  ■ - **Fulfills** the general approval requirements.

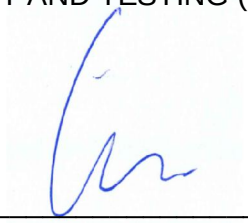
  ☐ - **Does not** fulfill the general approval requirements.

Sample Received Date: June 1, 2017

Testing Start Date: June 2, 2017

Testing End Date: August 31, 2017

- TÜV SÜD CERT AND TESTING (CHINA) CO., LTD. -

Reviewed by: 

CHAN Kwong Ngai
EMC Test Engineer

Prepared by: 

Alex CHAN
EMC Project Engineer



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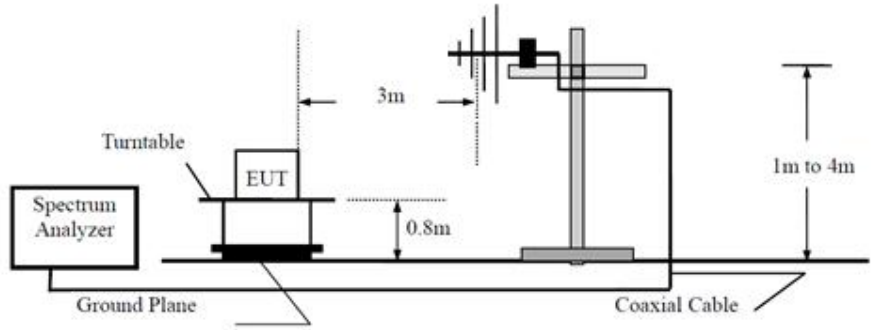
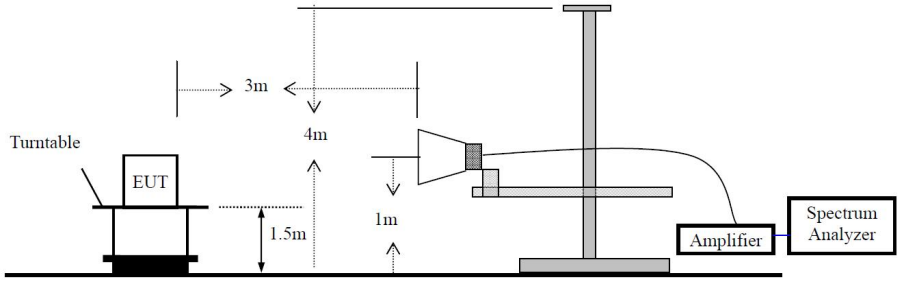
# 7. Test Setups

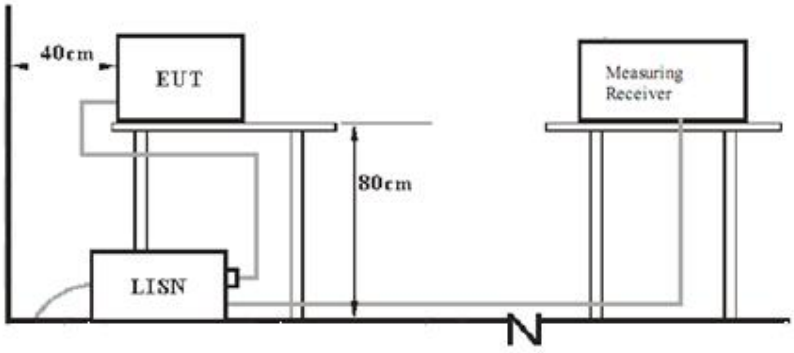
## 7.1. Below 1GHz




## 7.2. Above 1GHz




## 7.3. AC Power Line Conducted Emission test setups



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# 8. Systems test configuration

Auxiliary Equipment Used during Test:

| DESCRIPTION | MANUFAC-TURER | MODEL NO. (SHIELD) | S/N (LENGTH) | PARAMETERS |
|---|---|---|---|---|
| Notebook | Lenovo | X240 | SL10F31638JS | --- |
| Adapter | --- | --- | - | --- |

The device was charging form external adapter



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# 9. Emission Test Results

## 9.1. Conducted Emission Test

**Test Method**

1. The EUT was placed on a table, which is 0.8m above ground plane
2. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.).
3. Maximum procedure was performed to ensure EUT compliance
4. A EMI test receiver is used to test the emissions from both sides of AC line

**Limit**

According to §15.107, conducted emissions limit as below:

| Frequency MHz | QP Limit dBµV | AV Limit dBµV |
|---|---|---|
| 0.150-0.500 | 66-56* | 56-46* |
| 0.500-5 | 56 | 46 |
| 5-30 | 60 | 50 |

*Decreasing linearly with logarithm of the frequency



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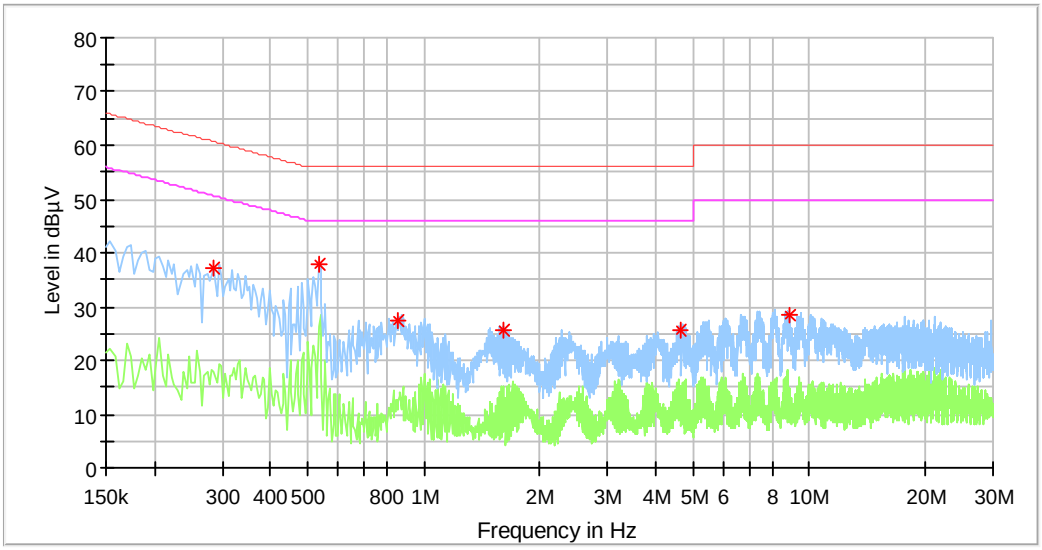
## Conducted Emission

EUT: VDO M6.1, VDO DS M6.1
Op Condition: Data Transfer
Test Specification: AC Mains, L Line
Comment: 3.0VDC (VDO M6.1)
5.0VDC (VDO DS M6.1, connected with PC via USB port)
120VAC, 60Hz (Notebook)

Test Result
☒ Passed
☐ Not Passed




| Frequency (MHz) | QuasiPeak (dBµV) | Average (dBµV) | Limit (dBµV) | Margin (dB) | Corr. (dB) |
|---|---|---|---|---|---|
| 0.286000 | 37.30 | --- | 60.64 | 23.34 | 10.3 |
| 0.534000 | 37.77 | --- | 56.00 | 18.23 | 10.3 |
| 0.854000 | 27.45 | --- | 56.00 | 28.55 | 10.4 |
| 1.610000 | 25.64 | --- | 56.00 | 30.36 | 10.4 |
| 4.638000 | 25.67 | --- | 56.00 | 30.33 | 10.5 |
| 8.858000 | 28.48 | --- | 60.00 | 31.52 | 10.7 |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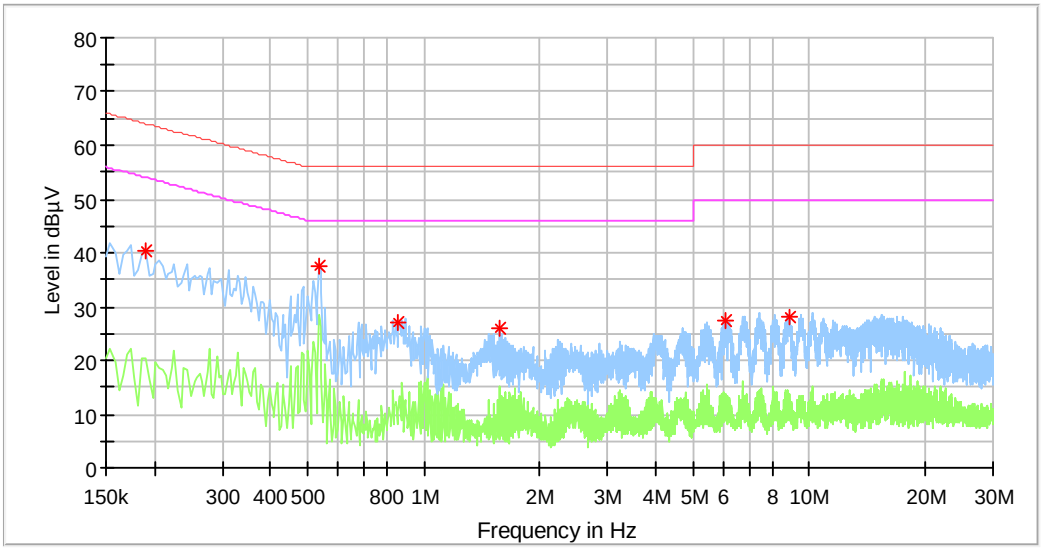
## Conducted Emission

| | |
|---|---|
| EUT: | VDO M6.1, VDO DS M6.1 |
| Op Condition: | Data Transfer |
| Test Specification: | AC Mains, N Line |
| Comment: | 3.0VDC (VDO M6.1)<br>5.0VDC (VDO DS M6.1, connected with PC via USB port)<br>120VAC, 60Hz (Notebook) |

Test Result
☒ Passed
☐ Not Passed




| Frequency (MHz) | QuasiPeak (dBµV) | Average (dBµV) | Limit (dBµV) | Margin (dB) | Corr. (dB) |
|---|---|---|---|---|---|
| 0.190000 | 40.50 | --- | 64.04 | 23.54 | 10.3 |
| 0.534000 | 37.55 | --- | 56.00 | 18.45 | 10.3 |
| 0.862000 | 27.17 | --- | 56.00 | 28.83 | 10.4 |
| 1.574000 | 25.81 | --- | 56.00 | 30.19 | 10.4 |
| 6.082000 | 27.47 | --- | 60.00 | 32.53 | 10.6 |
| 8.898000 | 28.09 | --- | 60.00 | 31.91 | 10.7 |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## 9.2. Radiated Emission Test 30MHz – 1000MHz

**Test Method**

1: The EUT was place on a turn table which is 1.5m above ground plane for above 1GHz and 0.8m above ground for below 1GHz at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.

2: The EUT was set 3 meters away from the interference – receiving antenna, which was mounted on the top of a variable – height antenna tower.

3: The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

4: For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

5: Use the following spectrum analyzer settings According to C63.10:

For Above 1GHz

Span = wide enough to capture the peak level of the in-band emission and all spurious
RBW = 1MHz, VBW≥RBW for peak measurement and VBW = 10Hz for average measurement,
Sweep = auto, Detector function = peak, Trace = max hold.

For Below 1GHz

Use the following spectrum analyzer settings:

Span = wide enough to capture the peak level of the in-band emission and all spurious
RBW = 100 KHz, VBW≥RBW for peak measurement, Sweep = auto, Detector function = peak, Trace = max hold.

**Note:**

1: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 KHz for Quasi-peak detection (QP) at frequency below 1GHz.

2: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for peak detection (PK) at frequency above 1GHz.

3: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for RMS Average ((duty cycle < 98%) for Average detection (AV) at frequency above 1GHz, then the measurement results was added to a correction factor (20log(1/duty cycle).

4: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 10Hz (duty cycle > 98%) for Average detection (AV) at frequency above1GHz

**Limits**

The radio emission outside the operating frequency band 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. Radiated emissions which fall in the restricted bands, as defined in section15.205, must comply with the radiated emission limits specified in section 15.209.

| Frequency MHz | Field Strength uV/m | Field Strength dBµV/m | Detector |
|---|---|---|---|
| 30-88 | 100 | 40 | QP |
| 88-216 | 150 | 43.5 | QP |
| 216-960 | 200 | 46 | QP |
| 960-1000 | 500 | 54 | QP |
| Above 1000 | 500 | 54 | AV |
| Above 1000 | 5000 | 74 | PK |


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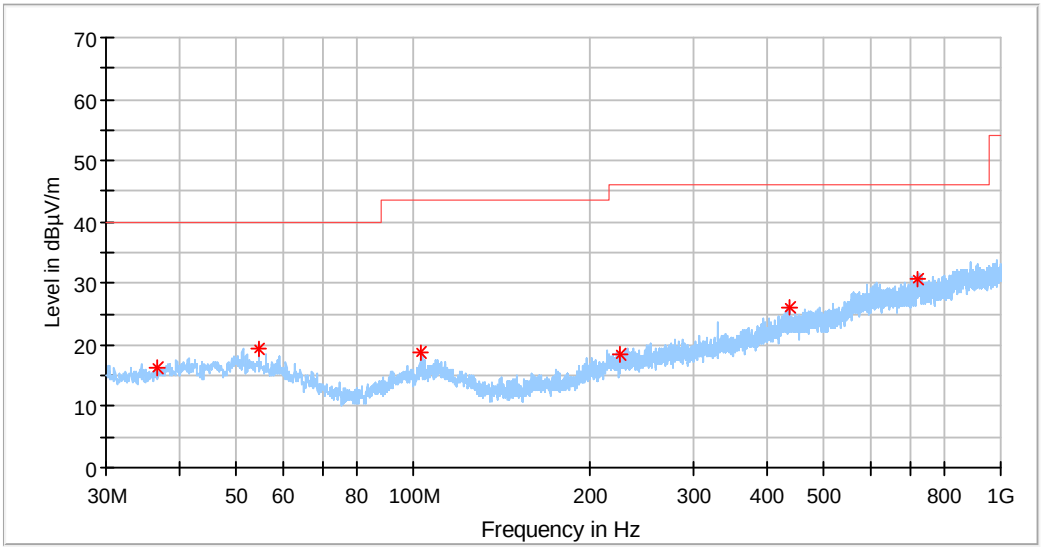
## Radiated Emission

EUT: VDO M6.1
Op Condition: Normal Working
Test Specification: Antenna: Horizontal
Comment: 3.0VDC

Test Result
☒ Passed
☐ Not Passed




| Frequency (MHz) | QuasiPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Corr. (dB) |
|---|---|---|---|---|
| 36.608125 | 16.28 | 40.00 | -23.72 | 15.9 |
| 54.492500 | 19.22 | 40.00 | -20.78 | 17.0 |
| 103.295625 | 18.87 | 43.50 | -24.63 | 15.9 |
| 225.879375 | 18.44 | 46.00 | -27.56 | 16.4 |
| 436.915000 | 26.08 | 46.00 | -19.92 | 22.5 |
| 723.246875 | 30.57 | 46.00 | -15.43 | 26.8 |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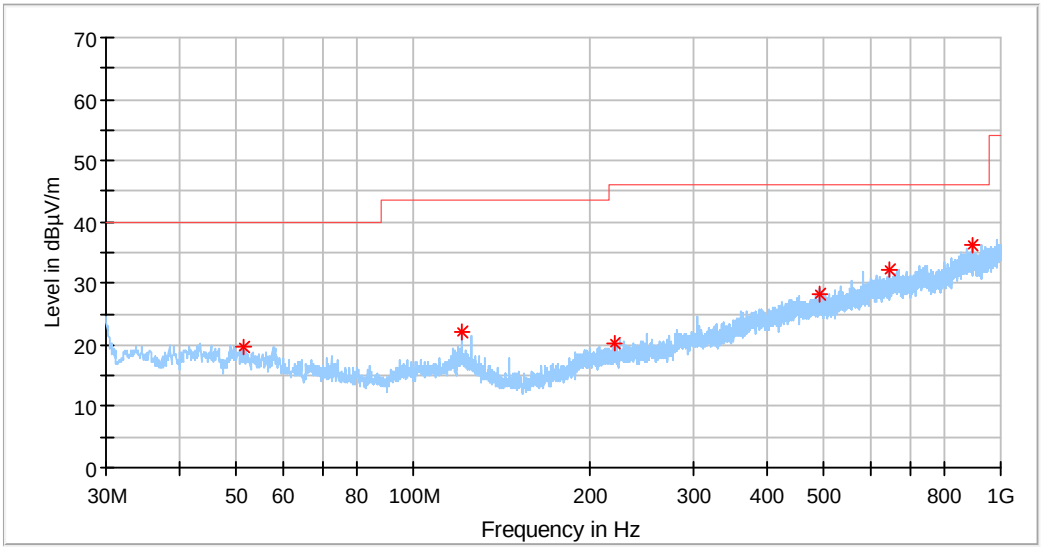
## Radiated Emission

EUT: VDO M6.1
Op Condition: Normal Working
Test Specification: Antenna: Vertical
Comment: 3.0VDC

Test Result
☒ Passed
☐ Not Passed




| Frequency (MHz) | QuasiPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Corr. (dB) |
|---|---|---|---|---|
| 51.279375 | 19.78 | 40.00 | -20.22 | 18.4 |
| 121.361875 | 22.15 | 43.50 | -21.35 | 14.7 |
| 220.301875 | 20.30 | 46.00 | -25.70 | 17.6 |
| 492.023125 | 28.35 | 46.00 | -17.65 | 25.1 |
| 645.646875 | 32.38 | 46.00 | -13.62 | 27.8 |
| 897.968125 | 36.17 | 46.00 | -9.83 | 32.0 |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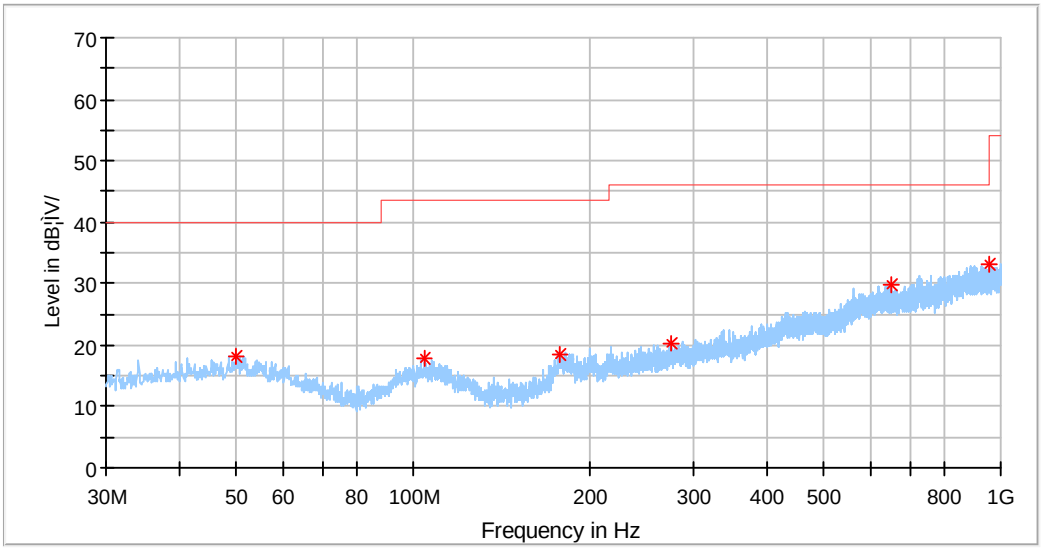
## Radiated Emission

| | |
|---|---|
| EUT: | VDO M6.1, VDO DS M6.1 |
| Op Condition: | Data Transfer |
| Test Specification: | Antenna: Horizontal |
| Comment: | 3.0VDC (VDO M6.1)<br>5.0VDC (VDO DS M6.1, connected with PC via USB port)<br>120VAC, 60Hz (Notebook) |

Test Result
☒ Passed
☐ Not Passed




| Frequency (MHz) | QuasiPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Corr. (dB) |
|---|---|---|---|---|
| 50.006250 | 18.19 | 40.00 | 21.81 | 17.7 |
| 104.205000 | 17.74 | 43.50 | 25.76 | 15.9 |
| 177.985625 | 18.53 | 43.50 | 24.97 | 13.5 |
| 274.985625 | 20.29 | 46.00 | 25.71 | 18.2 |
| 650.315000 | 29.70 | 46.00 | 16.30 | 26.1 |
| 956.956250 | 33.05 | 46.00 | 12.95 | 29.4 |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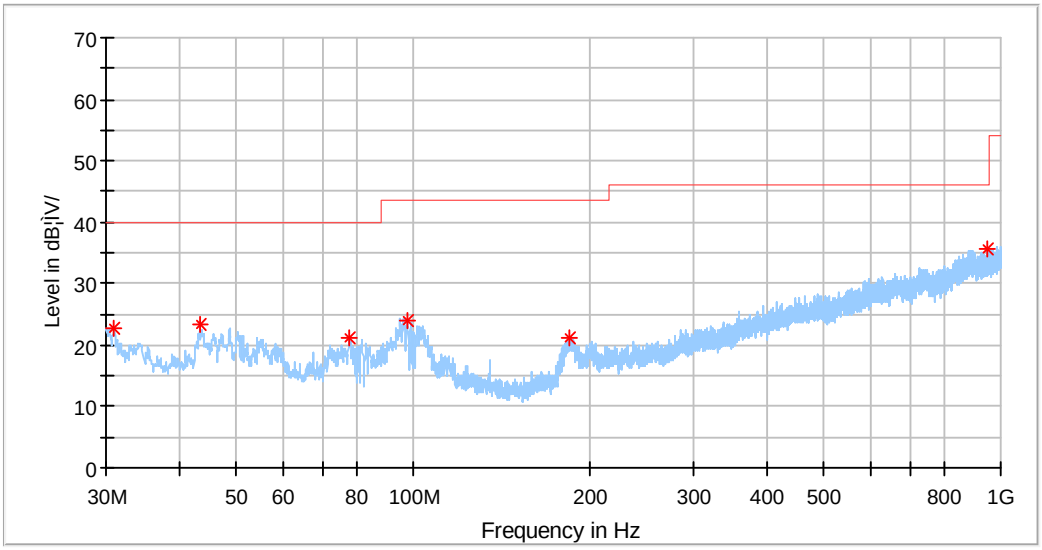
## Radiated Emission

EUT: VDO M6.1, VDO DS M6.1
Op Condition: Data Transfer
Test Specification: Antenna: Vertical
Comment: 3.0VDC (VDO M6.1)
5.0VDC (VDO DS M6.1, connected with PC via USB port)
120VAC, 60Hz (Notebook)

Test Result
☒ Passed
☐ Not Passed




| Frequency (MHz) | QuasiPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Corr. (dB) |
|---|---|---|---|---|
| 30.909375 | 22.62 | 40.00 | 17.38 | 16.5 |
| 43.337500 | 23.40 | 40.00 | 16.60 | 18.5 |
| 77.530000 | 21.29 | 40.00 | 18.71 | 14.3 |
| 97.657500 | 24.02 | 43.50 | 19.48 | 15.7 |
| 183.866250 | 21.11 | 43.50 | 22.39 | 15.3 |
| 948.650625 | 35.51 | 46.00 | 10.49 | 32.0 |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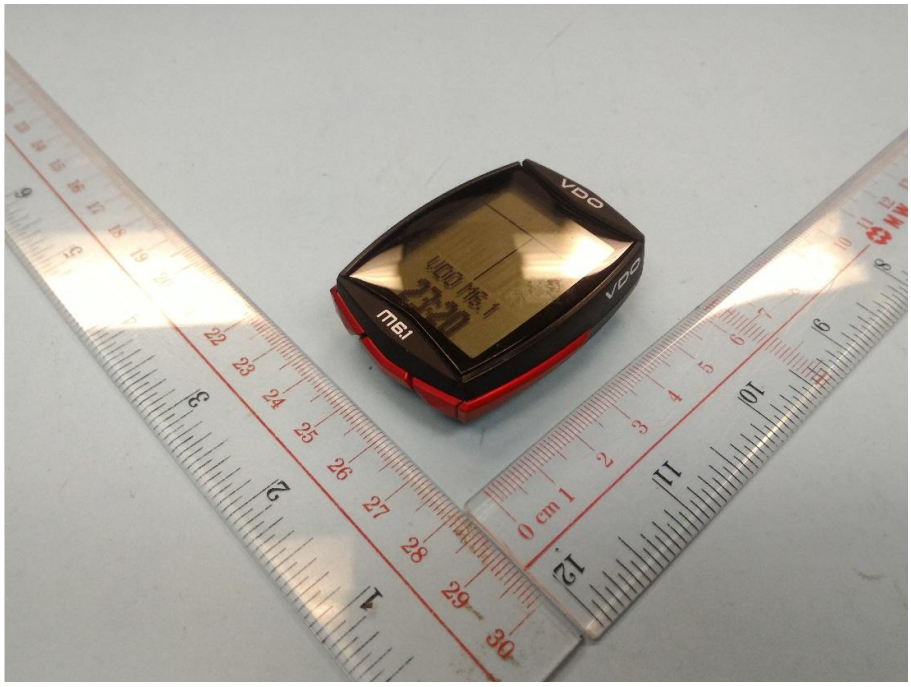
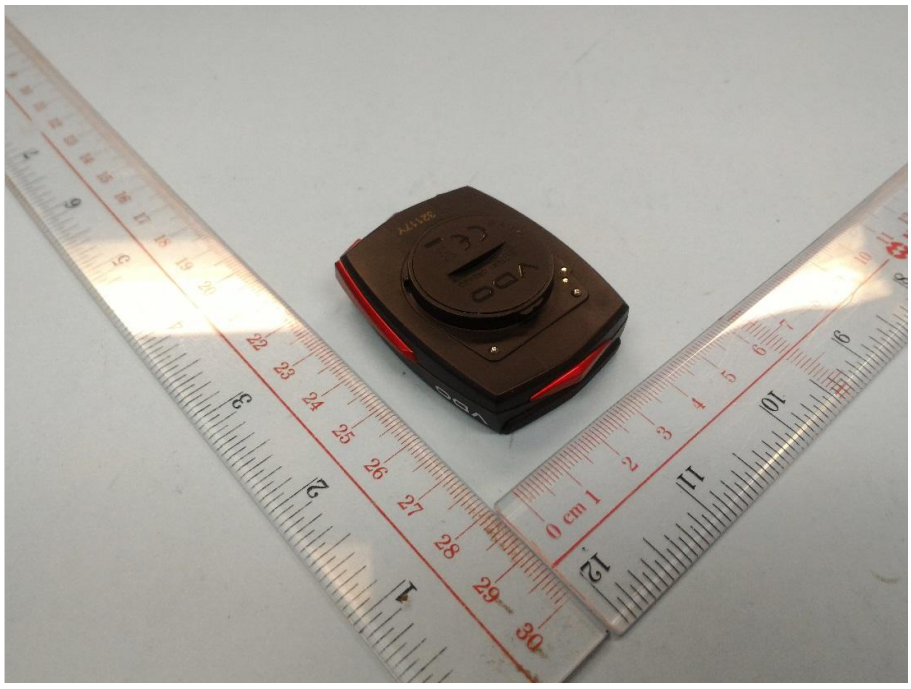
# 10. Appendix A - Photographs of EUT





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## Appendix A





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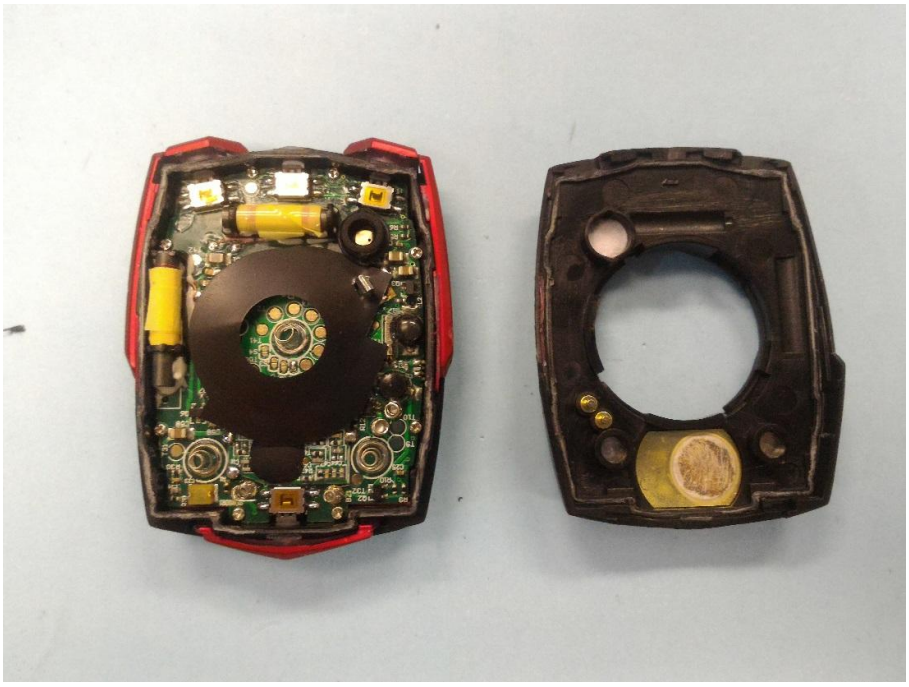
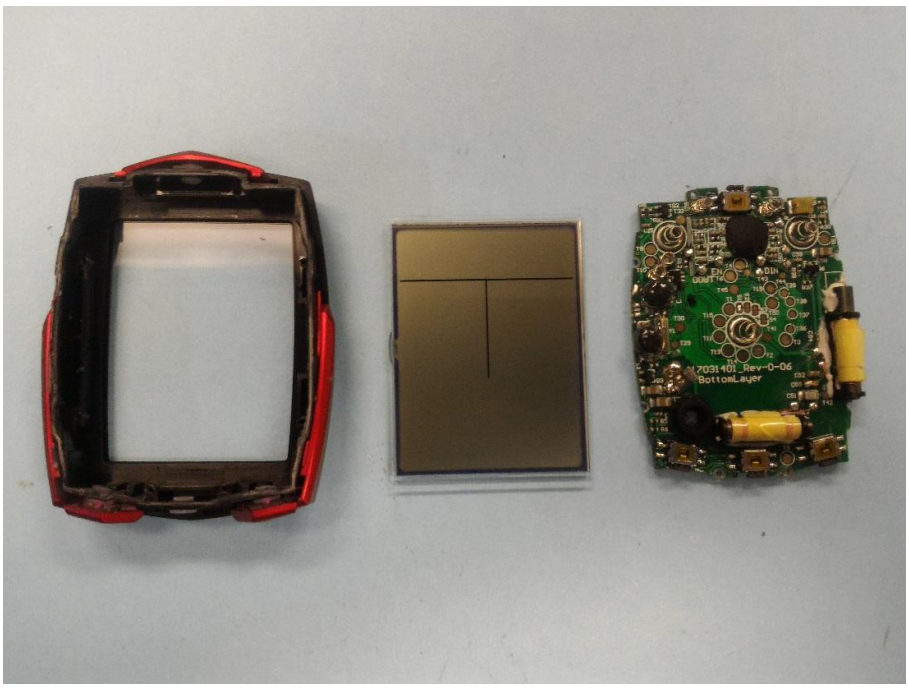
## Appendix A





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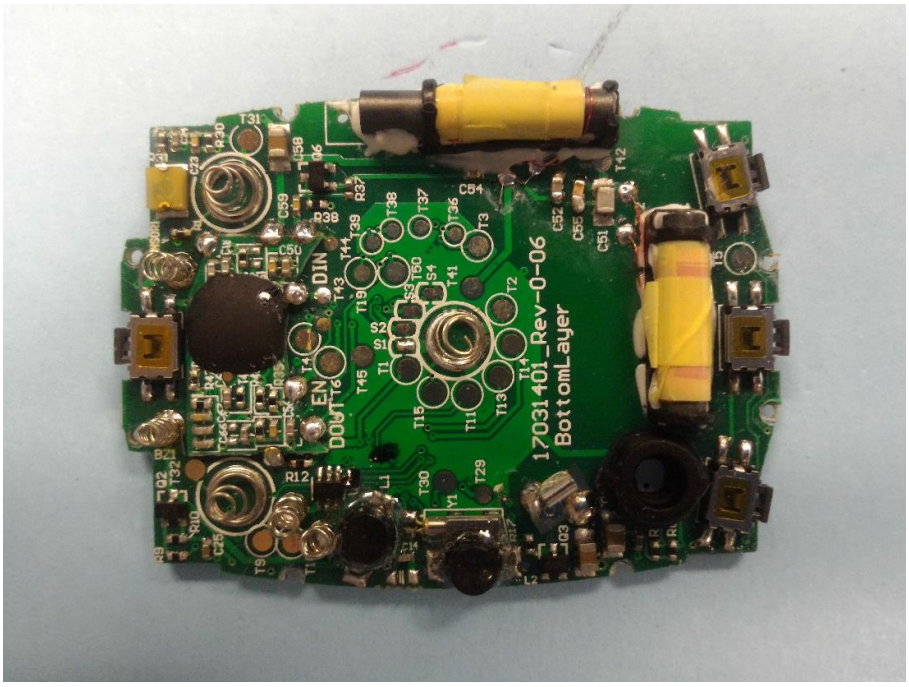





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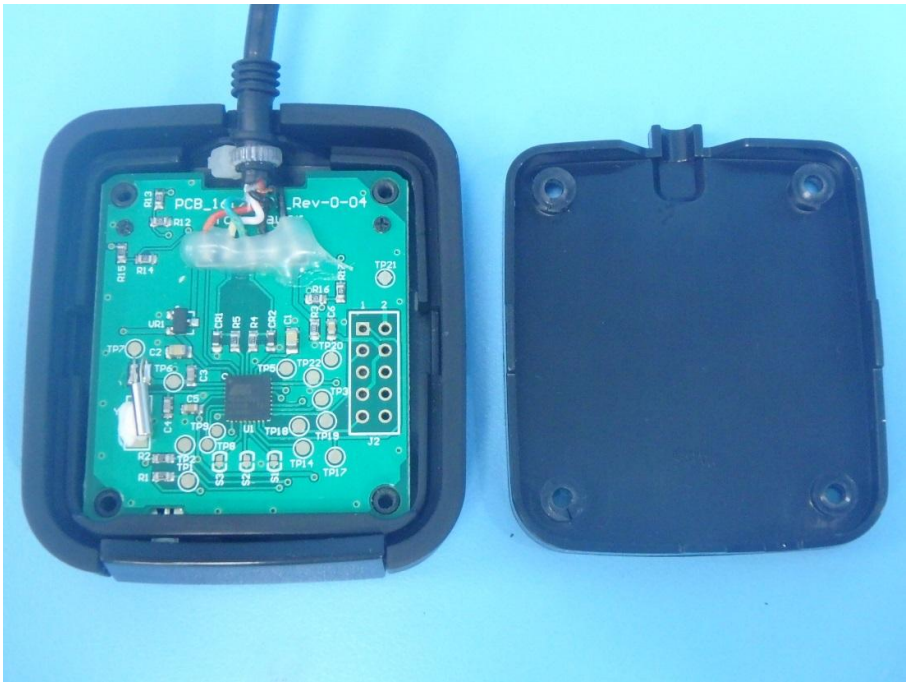

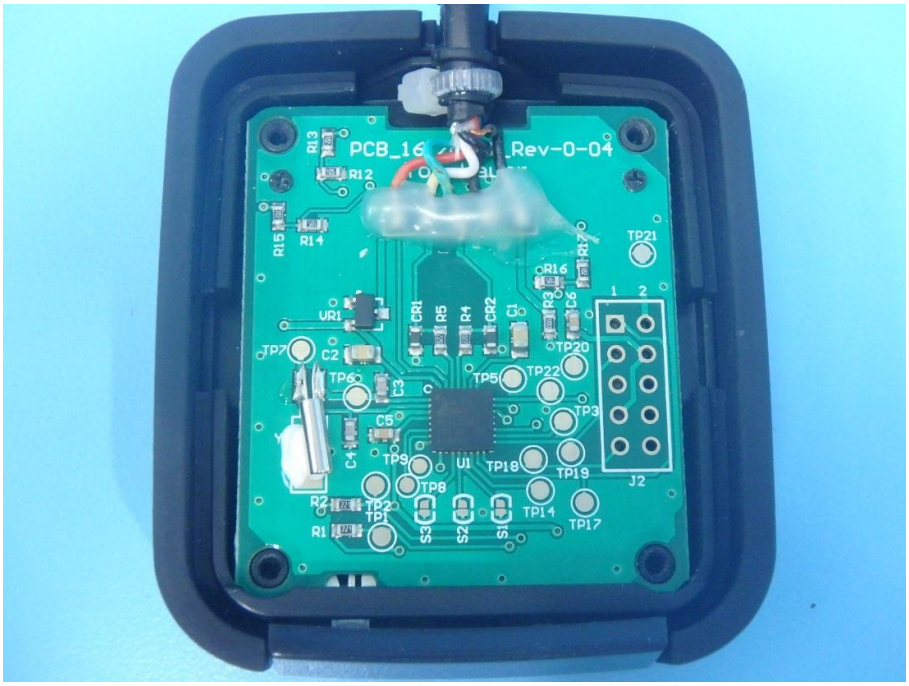




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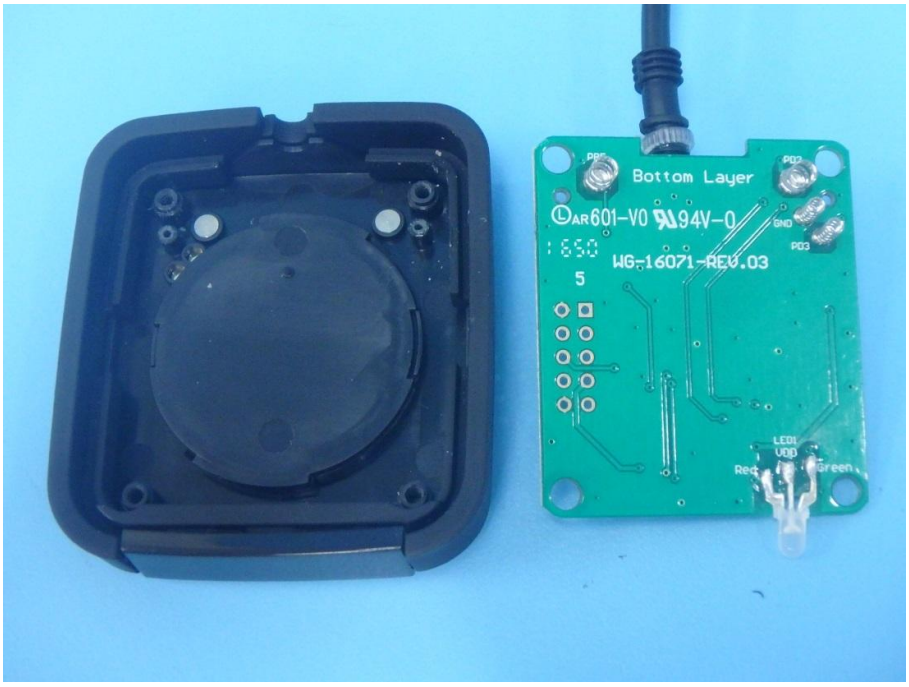
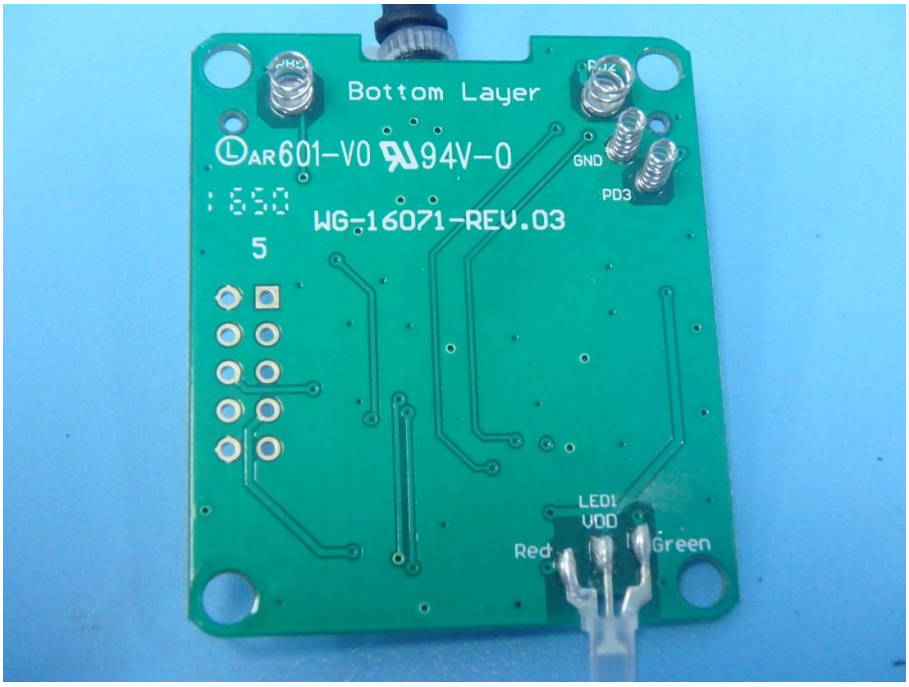
## Appendix A



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# 11. Appendix B - Test Support Equipment




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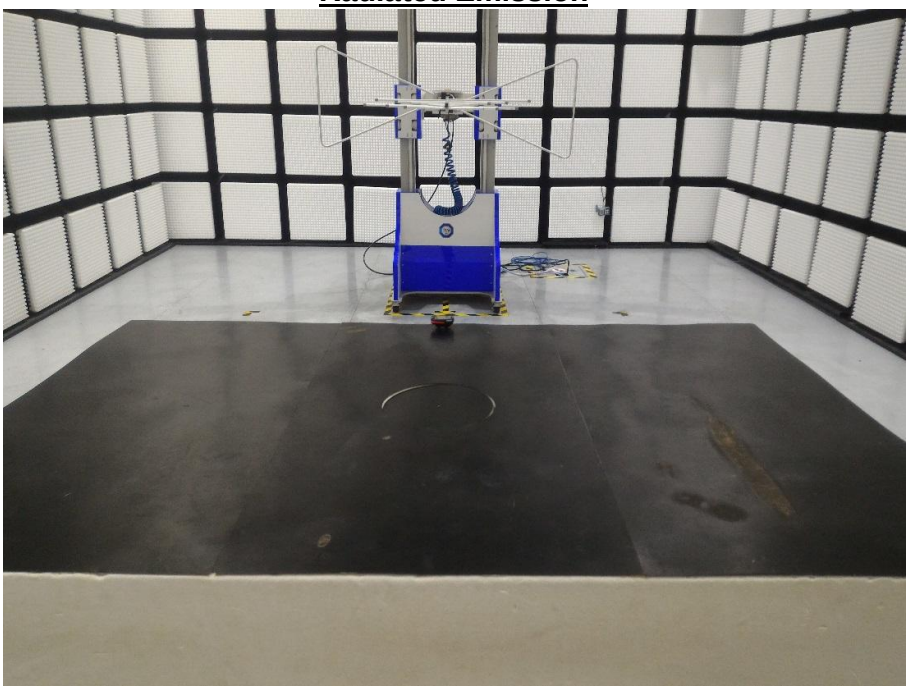
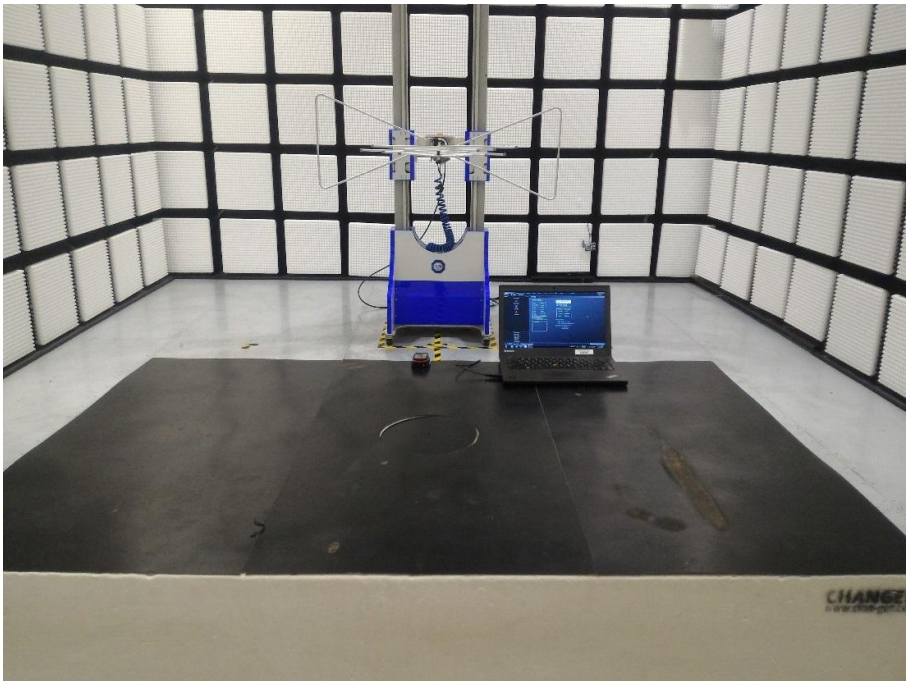
# 12. Appendix C - Setup Photographs of EUT

**Radiated Emission**







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## Appendix C

### Conducted Emission



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# 13. Test Equipment Site List

**Radiated emission Test – Site 2**

| DESCRIPTION | MANUFACTURER | MODEL NO. | SERIAL NO. | CAL. DUE DATE |
|---|---|---|---|---|
| EMI Test Receiver | Rohde & Schwarz | ESR 26 | 101269 | 07-July-18 |
| Trilog Super Broadband Test Antenna | Schwarzbeck | VULB 9163 | 707 | 07-July-18 |
| Horn Antenna | Rohde & Schwarz | HF907 | 102294 | 07-July-18 |
| Pre-amplifier | Rohde & Schwarz | SCU 18 | 102230 | 07-July-18 |
| 3m Semi-anechoic chamber | TDK | 9X6X6 | ---- | 14-July-20 |
| Cable | Hubersuhner | NIL | NIL | Cal in use |
| Test software | Rohde & Schwarz | EMC32 | Version 9.15.00 | N/A |

**Conducted emission Test – Site 2**

| DESCRIPTION | MANUFACTURER | MODEL NO. | SERIAL NO. | CAL. DUE DATE |
|---|---|---|---|---|
| EMI Test Receiver | Rohde & Schwarz | ESR 3 | 101782 | 14-July-18 |
| LISN | Rohde & Schwarz | ENV4200 | 100249 | 14-July-18 |
| LISN | Rohde & Schwarz | ENV216 | 100326 | 14-July-18 |
| ISN | Rohde & Schwarz | ENY81 | 100177 | 14-July-18 |
| ISN | Rohde & Schwarz | ENY81-CAT6 | 101664 | 14-July-18 |
| High Voltage Proble | Rohde & Schwarz | TK9420(VT9420) | 9420-58 | 14-July-18 |
| RF Current probe | Rohde & Schwarz | EZ-17 | 100816 | 14-July-18 |
| Cable | Hubersuhner | NIL | NIL | Cal in use |
| Test software | Rohde & Schwarz | EMC32 | Version9.15.00 | N/A |


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# 14. Measurement System Uncertainty

## Measurement System Uncertainty Emissions

| System Measurement Uncertainty | |
|---|---|
| **Items** | **Extended Uncertainty** |
| Uncertainty for Radiated Emission in 3m chamber 30MHz-1000MHz | Horizontal: 4.83dB; Vertical: 4.91dB; |
| Uncertainty for Conducted Emission 150kHz-30MHz | 3.50dB |


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