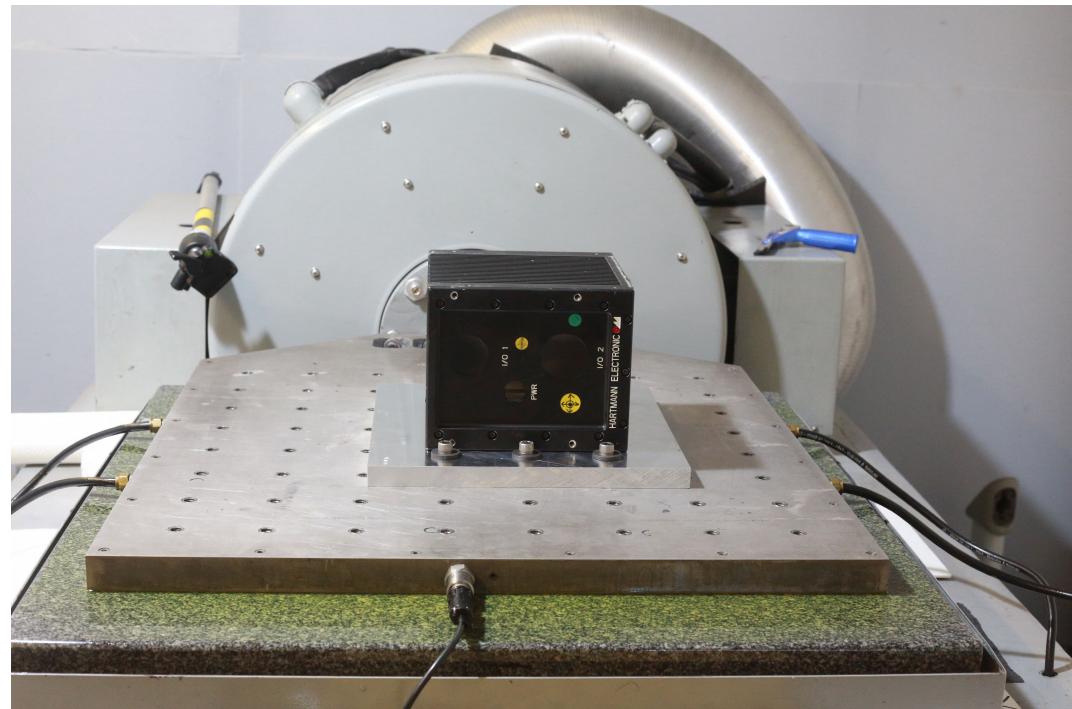


D575-0090D VPX Power Supply 3HE_600W



Mechanical Test report

| | |
|--------------------------|--------------------------------------|
| Unit/s under test (UUT): | D575-0090D VPX Power Supply 3HE_600W |
| Serial number: | Prototype |

| | |
|------------------|----------------------------------------------------------|
| Document number: | Hartmann Electronic-D575-0090D VPX-Test.en/Rev.0/07.2019 |
| Date of issue: | 2019-07-15 |

| | |
|---------------------------|--------------------------------------------------------------------------------------------------------|
| Customer: | Hartmann Electronic GmbH |
| Test Laboratory | hummel electronic |
| Summary of results | The visual inspection reveals no obvious defects, leaks or cracks, no missing pieces of equipment etc. |

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Revision Index

| Revision | Date | Changes | Author |
|----------|------------|-------------|--------|
| 0 | 2019-07-15 | First draft | AN |

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Table of Contents

| | | |
|----------|--------------------------------------------------|-----------|
| 1 | General information..... | 6 |
| 1.1 | Unit under test and type..... | 6 |
| 1.1.1 | Technical data Unit under test..... | 6 |
| 1.2 | Original language..... | 6 |
| 1.3 | Customer personnel..... | 6 |
| 1.4 | Test attendant..... | 6 |
| 1.5 | Author test report..... | 6 |
| 1.6 | Environmental conditions..... | 6 |
| 1.7 | Time Schedule..... | 6 |
| 1.8 | Electronic signature..... | 7 |
| 2 | Abbreviations..... | 8 |
| 3 | Test specifications and test program..... | 9 |
| 3.1 | Test specifications..... | 9 |
| 3.2 | Test program..... | 9 |
| 3.2.1 | Vibration..... | 9 |
| 3.2.2 | Shock..... | 10 |
| 4 | Test equipment used..... | 11 |
| 5 | Test realization..... | 12 |
| 5.1 | Visual inspection..... | 12 |
| 5.2 | Failure criteria..... | 12 |
| 5.3 | Fastening of the UUT during tests..... | 12 |
| 6 | Test results..... | 13 |
| 6.1 | Measurement results..... | 13 |
| 6.2 | Electronic signature..... | 14 |
| 7 | Photo and diagram documentation..... | 15 |
| 7.1 | Photo documentation..... | 15 |
| 7.2 | Transportation Vibration test..... | 26 |
| 7.2.1 | Verticale..... | 27 |
| 7.2.2 | Transverse..... | 33 |
| 7.2.3 | Longitudinale..... | 39 |
| 7.3 | Functional Shock test..... | 45 |
| 7.3.1 | Diagram functional shock..... | 46 |

List of Images

| | |
|-------------------------------------------------------------------------|----|
| Image 3.1: Test program vertical, transverse and longitudinal axis..... | 9 |
| Image 7.1: UUT during vibration test in Z-axis..... | 15 |
| Image 7.2: UUT during vibration test in X-axis..... | 16 |
| Image 7.3: UUT during vibration test in Y-axis..... | 17 |
| Image 7.4: Functional test after vibration test..... | 18 |

| | |
|------------------------------------------------------|----|
| Image 7.5: Functional test after vibration test..... | 19 |
| Image 7.6: Functional test after vibration test..... | 20 |
| Image 7.7: Functional test after vibration test..... | 21 |
| Image 7.8: UUT during shock test in Z-axis..... | 22 |
| Image 7.9: UUT during shock test in Z-axis..... | 23 |
| Image 7.10: UUT during shock test in X-axis..... | 24 |
| Image 7.11: UUT during shock test in Y-axis..... | 25 |

List of Diagrams

| | |
|-------------------------------------------------------------------------------------------|----|
| Diagram 1: MIL-STD-810E, Method 514.4 Procedure I, Category 8 Table 514.4-AXVI, VO1..... | 27 |
| Diagram 2: MIL-STD-810E, Method 514.4 Procedure I, Category 8 Table 514.4-AXVI, VO2..... | 28 |
| Diagram 3: MIL-STD-810E, Method 514.4 Procedure I, Category 8 Table 514.4-AXVI, VO3..... | 29 |
| Diagram 4: MIL-STD-810E, Method 514.4 Procedure I, Category 8 Table 514.4-AXVI, VO4..... | 30 |
| Diagram 5: MIL-STD-810E, Method 514.4 Procedure I, Category 8 Table 514.4-AXVI, VO5..... | 31 |
| Diagram 6: MIL-STD-810E, Method 514.4 Procedure I, Category 8 Table 514.4-AXVI, VO6..... | 32 |
| Diagram 7: MIL-STD-810E, Method 514.4 Procedure I, Category 8 Table 514.4-AXVI, TO1..... | 33 |
| Diagram 8: MIL-STD-810E, Method 514.4 Procedure I, Category 8 Table 514.4-AXVI, TO2..... | 34 |
| Diagram 9: MIL-STD-810E, Method 514.4 Procedure I, Category 8 Table 514.4-AXVI, TO3..... | 35 |
| Diagram 10: MIL-STD-810E, Method 514.4 Procedure I, Category 8 Table 514.4-AXVI, TO4..... | 36 |
| Diagram 11: MIL-STD-810E, Method 514.4 Procedure I, Category 8 Table 514.4-AXVI, TO5..... | 37 |
| Diagram 12: MIL-STD-810E, Method 514.4 Procedure I, Category 8 Table 514.4-AXVI, TO6..... | 38 |
| Diagram 13: MIL-STD-810E, Method 514.4 Procedure I, Category 8 Table 514.4-AXVI, LO1..... | 39 |
| Diagram 14: MIL-STD-810E, Method 514.4 Procedure I, Category 8 Table 514.4-AXVI, LO2..... | 40 |
| Diagram 15: MIL-STD-810E, Method 514.4 Procedure I, Category 8 Table 514.4-AXVI, LO3..... | 41 |
| Diagram 16: MIL-STD-810E, Method 514.4 Procedure I, Category 8 Table 514.4-AXVI, LO4..... | 42 |
| Diagram 17: MIL-STD-810E, Method 514.4 Procedure I, Category 8 Table 514.4-AXVI, LO5..... | 43 |
| Diagram 18: MIL-STD-810E, Method 514.4 Procedure I, Category 8 Table 514.4-AXVI, LO6..... | 44 |

| | |
|----------------------------------------------------------|----|
| Diagram 19: MIL-STD-810G, Method 516.6, Procedure I..... | 46 |
| Diagram 20: MIL-STD-810G, Method 516.6, Procedure I..... | 46 |
| Diagram 21: MIL-STD-810G, Method 516.6, Procedure I..... | 47 |
| Diagram 22: MIL-STD-810G, Method 516.6, Procedure I..... | 47 |
| Diagram 23: MIL-STD-810G, Method 516.6, Procedure I..... | 48 |
| Diagram 24: MIL-STD-810G, Method 516.6, Procedure I..... | 48 |

List of Tables

| | |
|--------------------------------------------------------|----|
| Table 1 Customer personnel..... | 6 |
| Table 2 Test attendant..... | 6 |
| Table 3 Author Test report..... | 6 |
| Table 4 Abbreviations..... | 8 |
| Table 5 Test equipment used..... | 11 |
| Table 6 Electronic signature Senior Test Engineer..... | 14 |
| Table 7 Electronic signature Technical Writer..... | 14 |

1 General information

1.1 Unit under test and type

The unit under test was a *D575-0090D VPX Power Supply 3HE_600W*. The UUT is a prototype without serial number.

1.1.1 Technical data Unit under test

Not available.

1.2 Original language

This test report was originally written in English.

1.3 Customer personnel

| Surname and Title | First Name | Company |
|--------------------------------------|------------|--------------------------|
| Mr. Mahjoub, Project Manager / Sales | Wajih | Hartmann Electronic GmbH |
| | | |

Table 1 Customer personnel

1.4 Test attendant

| Surname and Title | First Name | Company |
|----------------------------------|------------|-----------------------------|
| Mr. Hummel, Senior Test Engineer | Peter | hummel electronic, Fellbach |
| Dr. Nguemning | André | hummel electronic, Fellbach |

Table 2 Test attendant

1.5 Author test report

| Surname and Title | First Name | Company |
|-------------------|------------|-----------------------------|
| Dr. Nguemning | André | hummel electronic, Fellbach |

Table 3 Author Test report

1.6 Environmental conditions

- Temperature (average value): 24 °C
- Relative humidity (average value): 54 %
- Atmospheric Pressure (average value): 1012,8 hPa

1.7 Time Schedule

- Delivery of UUT: 2019-06-19
- Start of test: 2019-06-19
- End of test: 2019-07-03



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D575-0090D VPX Power Supply 3HE_600W

1 General information

1.8 Electronic signature

This document was signed electronically. The available signatures can be see in section 6.2 *Electronic signature*.

2 Abbreviations

The following abbreviations are used in this test report:

| Abbreviations | Signification |
|----------------------|----------------------------------------------------------------------------|
| ASD | Acceleration Spectral Density |
| DIN | German Institute for Standardisation (DIN, Deutsches Institut für Normung) |
| EN | European Norm |
| EUT | Equipment Under Test |
| F_c | Critical frequencies |
| g | Acceleration due to gravity |
| PSD | Power Spectral Density |
| SD PUMA | Spectral Dynamic, Digital vibration control |
| SM | Shock Test Machine |
| ST | Slip Table |
| UDC | Unholtz Dickie Corporation |
| UUT | Unit Under Test |
| VCS | Vibration Control Systems |

Table 4 Abbreviations



3 Test specifications and test program

3.1 Test specifications

- MIL-STD-810G, Method 516.6, Procedure I: Functional Shock: 40 g 11 ms, terminal peak saw tooth pulse, 2 shock/axis in both direction for all 3 axis, total of 12 hit/shock.
- MIL-STD-810E, Method 514.4, Procedure I, Category 8 Table 514.4-AXVI: Transportation Vibration: 270 mins/axis for 3 axis, (Equipment installed in wheeled vehicles, trailers, and tracked vehicles)

3.2 Test program

3.2.1 Vibration

equipment on the sponsons of the M113 armored personnel carrier.

Test duration per axis: 270 minutes per 6000 miles

| Test Phase | Floor Level (g ² /Hz) | Narrowband 1 | | | | Narrowband 2 | | | | Narrowband 3 | | | | Narrowband 4 | | | | Narrowband 5 | | | |
|---------------------------------------------------------|----------------------------------|--------------|---------|---------------------------|---------|---------------------------|---------|---------------------------|---------|---------------------------|---------|---------------------------|---------|---------------------------|---------|---------------------------|---------|--------------|--|--|--|
| | | Sweep | | Sweep | | Sweep | | Sweep | | Sweep | | Sweep | | Sweep | | Sweep | | | | | |
| | | No. Sweeps | Bw (Hz) | Ampl (g ² /Hz) | Bw (Hz) | | | | |
| VERTICAL AXIS (45 minutes per test phase) | | | | | | | | | | | | | | | | | | | | | |
| VO1 | 0.0056 | 4 | 24-30 | 0.1523 | 3 | 48-60 | 0.0844 | 6 | 72-90 | 0.1025 | 9 | 96-120 | 0.0226 | 12 | 120-150 | 0.0123 | 15 | | | | |
| VO2 | 0.0120 | 4 | 36-42 | 0.3098 | 3 | 72-80 | 0.5120 | 6 | 108-126 | 0.0938 | 9 | 144-168 | 0.0736 | 12 | 180-210 | 0.0908 | 15 | | | | |
| VO3 | 0.0132 | 2 | 48-60 | 2.9623 | 6 | 96-120 | 0.2508 | 12 | 144-180 | 0.1737 | 18 | 192-240 | 0.1615 | 24 | 240-300 | 0.1143 | 30 | | | | |
| VO4 | 0.0110 | 2 | 67-78 | 2.4820 | 6 | 132-156 | 0.1573 | 12 | 198-234 | 0.1719 | 18 | 264-312 | 0.0613 | 24 | 330-390 | 0.0549 | 30 | | | | |
| VO5 | 0.0180 | 2 | 84-102 | 2.4861 | 9 | 168-204 | 0.5375 | 18 | 252-306 | 0.3000 | 27 | 336-408 | 0.1212 | 36 | 420-500 | 0.1134 | 45 | | | | |
| VO6 | 0.0208 | 3 | 108-120 | 6.7305 | 6 | 216-240 | 1.1798 | 12 | 324-360 | 0.6259 | 18 | 432-480 | 0.2177 | 24 | ----- | ----- | -- | | | | |
| TRANSVERSE AXIS (45 minutes per test phase) | | | | | | | | | | | | | | | | | | | | | |
| TO1 | 0.0075 | 4 | 24-30 | 0.0238 | 3 | 48-60 | 0.1397 | 6 | 72-90 | 0.2698 | 9 | 96-120 | 0.0601 | 12 | 120-150 | 0.0358 | 15 | | | | |
| TO2 | 0.0149 | 4 | 36-42 | 0.2406 | 3 | 72-84 | 1.2746 | 6 | 108-126 | 1.0559 | 9 | 144-168 | 0.2446 | 12 | 180-210 | 0.1039 | 15 | | | | |
| TO3 | 0.0152 | 2 | 48-60 | 4.2320 | 6 | 96-120 | 1.0347 | 12 | 144-180 | 0.4844 | 18 | 192-240 | 0.1891 | 24 | 240-300 | 0.1900 | 30 | | | | |
| TO4 | 0.0124 | 4 | 66-72 | 2.9725 | 3 | 132-144 | 0.3121 | 6 | 198-216 | 0.1896 | 9 | 264-288 | 0.0858 | 12 | 330-360 | 0.0498 | 15 | | | | |
| TO5 | 0.0098 | 2 | 84-102 | 10.4347 | 9 | 168-204 | 0.3376 | 18 | 252-306 | 0.4768 | 27 | 336-408 | 0.0833 | 36 | 420-500 | 0.0386 | 45 | | | | |
| TO6 | 0.0234 | 3 | 108-120 | 18.7124 | 6 | 216-240 | 0.6378 | 12 | 324-360 | 0.6412 | 18 | 432-480 | 0.1028 | 24 | ----- | ----- | -- | | | | |
| LONGITUDINAL AXIS (45 minutes per test phase) | | | | | | | | | | | | | | | | | | | | | |
| LO1 | 0.0010 | 4 | 24-30 | 0.0568 | 3 | 48-60 | 0.0174 | 6 | 72-90 | 0.0098 | 9 | 96-120 | 0.0016 | 12 | 120-150 | 0.0030 | 15 | | | | |
| LO2 | 0.0020 | 4 | 36-42 | 0.1525 | 3 | 72-84 | 0.0643 | 6 | 108-126 | 0.0064 | 9 | 144-168 | 0.0149 | 12 | 180-210 | 0.0039 | 15 | | | | |
| LO3 | 0.0041 | 2 | 48-60 | 0.1122 | 6 | 96-120 | 0.0289 | 12 | 144-180 | 0.0765 | 18 | 192-240 | 0.0176 | 24 | 240-300 | 0.0109 | 30 | | | | |
| LO4 | 0.0041 | 2 | 66-78 | 0.1661 | 6 | 132-156 | 0.0118 | 12 | 198-234 | 0.0129 | 18 | 264-312 | 0.0074 | 24 | 330-390 | 0.0057 | 30 | | | | |
| LO5 | 0.0073 | 2 | 84-102 | 0.5564 | 9 | 168-204 | 0.0788 | 18 | 252-306 | 0.0344 | 27 | 336-408 | 0.0127 | 36 | 420-500 | 0.0063 | 45 | | | | |
| LO6 | 0.0074 | 3 | 108-120 | 0.5482 | 6 | 216-240 | 0.0316 | 12 | 324-360 | 0.0316 | 18 | 432-480 | 0.0086 | 24 | ----- | ----- | -- | | | | |

Image 3.1: Test program vertical, transverse and longitudinal axis

- UUT: Not operating
- Frequency range: 5 Hz – 500 Hz
- Amplitude in g²/Hz: See *Image 3.1: Test program vertical, transverse and longitudinal axis*
- Test duration: 270 minutes per axis
- Number of axes: 3

3.2.2 Shock

- UUT: In operation
- Test under half load: 12 V / 9 A; 5 V / 9 A; 3.3 V / 9 A
- Acceleration: 40 g
- Pulse width: 11 ms
- Shock form: Saw tooth
- Number of shocks: 4 per axis (Total: 12 Shocks)
- Orientations of Shocks: X₊, X₋, Y₊, Y₋, Z₊, Z₋

4 Test equipment used

| Equipment | Type | Serial number | Manufacturer |
|-----------------|--------------------------------|-----------------|----------------|
| Accelerator | 627A01 (sensitivity: 105 mV/g) | 18457 | IMI |
| Shaker | T208 | 286 | Unholtz Dickie |
| Oscilloscope | UTD2052 CEL | 2100006799 | UNI-T |
| Shaker | T102 | 286 | UNHOLTZ-DICKIE |
| Shaker | 4818 | 1412721/1308243 | Brüel & Kjaer |
| Power Amplifier | 2707 | 1716026 | Brüel & Kjaer |
| Generator | 114 | 96187 | WAVETEK |

Table 5 Test equipment used

Notice: The measuring equipment is calibrated regularly according to the calibration instructions of the manufacturer. All calibrations are traced back to national and international standards. hummel electronic periodically checked the measurement accuracy and reliability of the devices, depending on usage and the environment.

5 Test realization

The mechanical tests were carried out according to the test program specified in section 3.2 *Test program*.

5.1 Visual inspection

Before and after each single test, the UUT was examined visually for mechanical damages and any other alterations.

5.2 Failure criteria

- Mechanical or functional damages or any other alterations.

5.3 Fastening of the UUT during tests

The UUT was mounted to an aluminum fixture. The fixture with the UUT was directly mounted in the respective axis in the vibration table, see picture in section 7.1 *Photo documentation*.



6 Test results

The UUT was subject to the tests listed in detail in Chapter 3 *Test specifications and test program* of this report. The test results refer exclusively to the UUT described in section 1.1 *Unit under test and type* and the test period in section 1.7 *Time Schedule*.

6.1 Measurement results

The visual inspection reveals no obvious, defects, leaks or cracks, no missing pieces of equipment etc. The further evaluation will be done by the customer.

6.2 Electronic signature

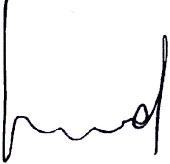
| | |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| Date: 2019-07-15 | Signature: Hummel, Peter (Senior Test Engineer)  |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|

Table 6 Electronic signature Senior Test Engineer

| | |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Date: 2019-07-15 |  Signature: Dr. Nguemning, André (Technical Writer) |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|

Table 7 Electronic signature Technical Writer

7 Photo and diagram documentation

Images and diagram are shown below.

7.1 Photo documentation

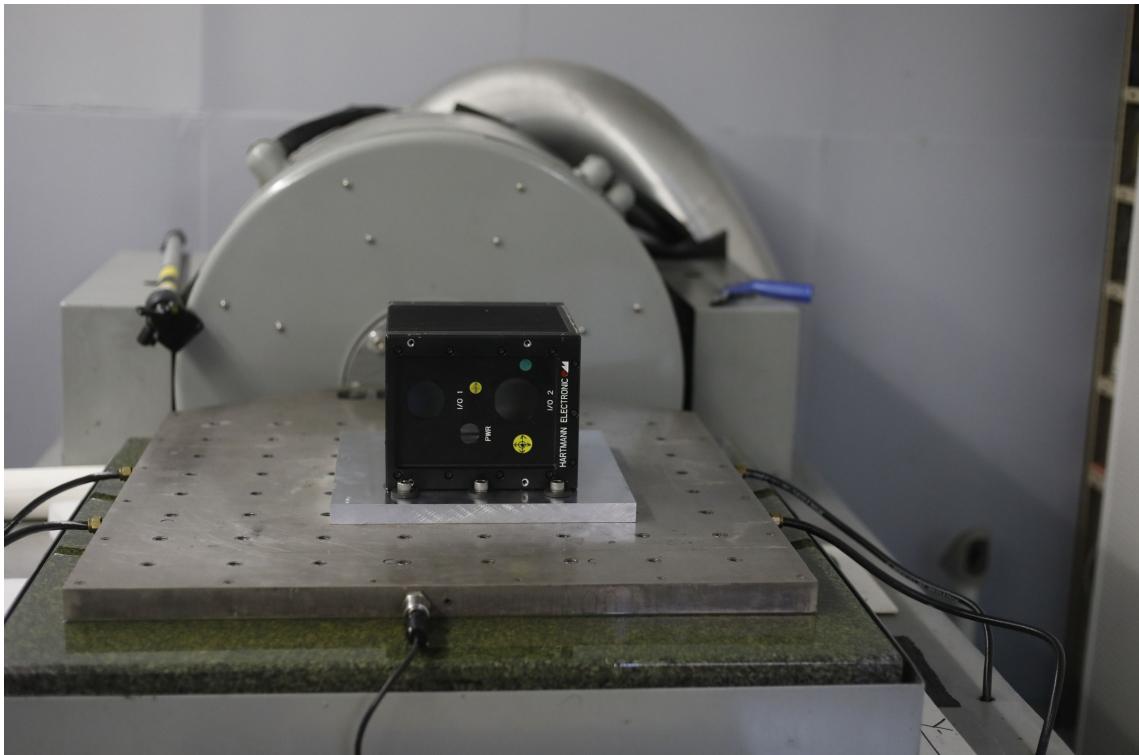


Image 7.1: UUT during vibration test in Z-axis

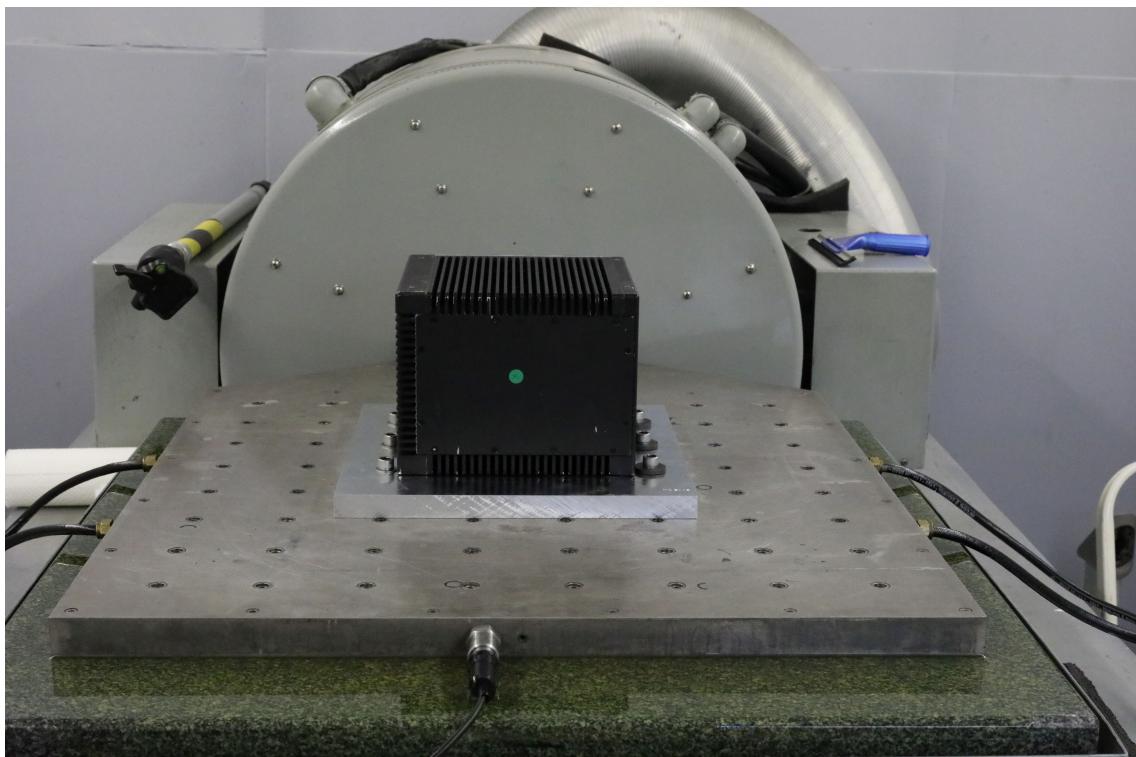


Image 7.2: UUT during vibration test in X-axis



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7 Photo and diagram documentation

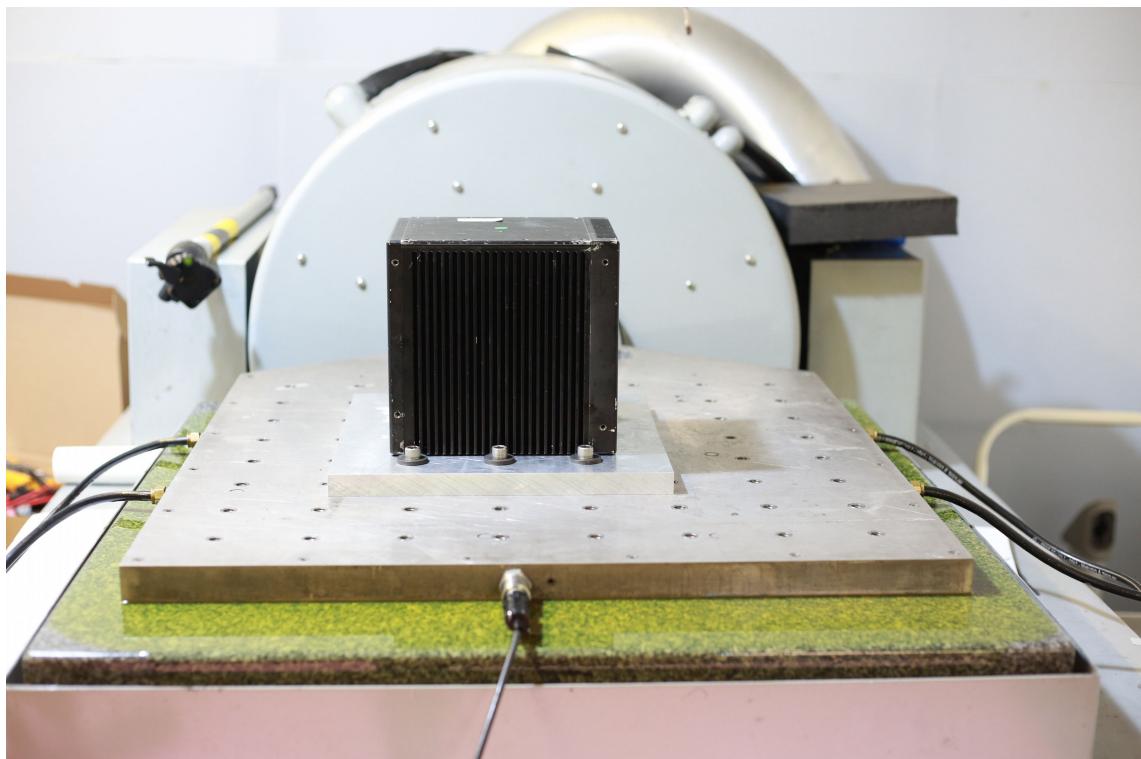


Image 7.3: UUT during vibration test in Y-axis

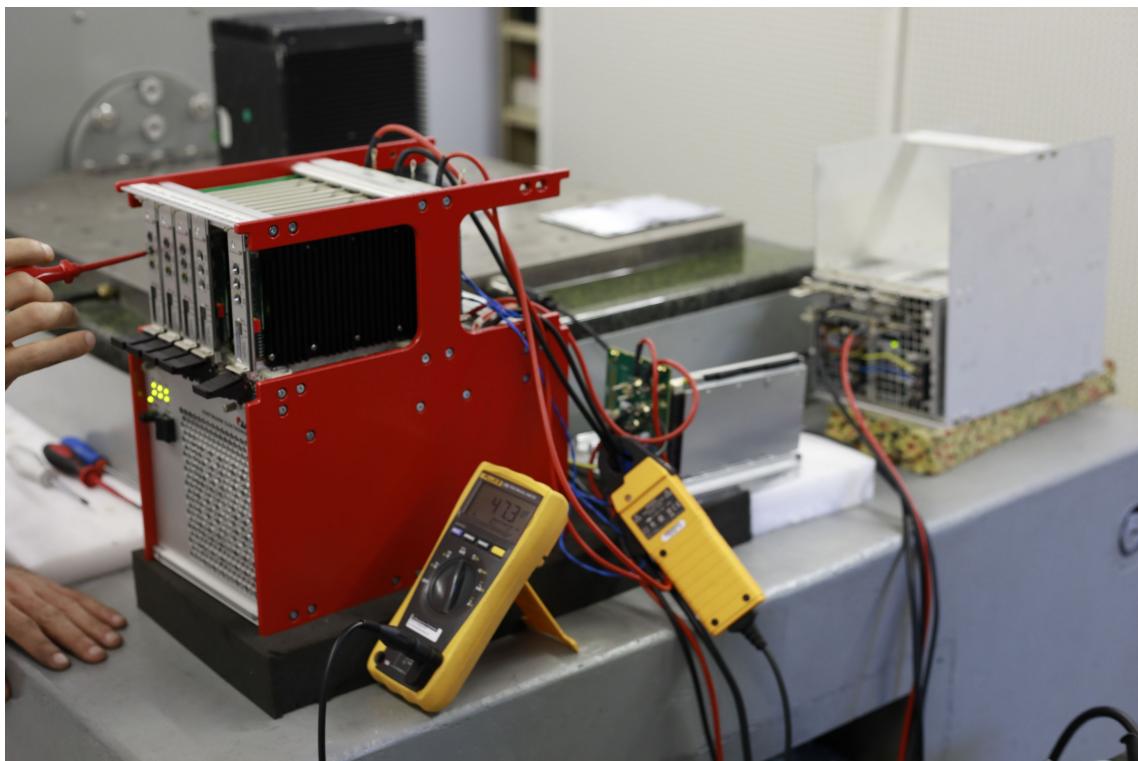


Image 7.4: Functional test after vibration test



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7 Photo and diagram documentation

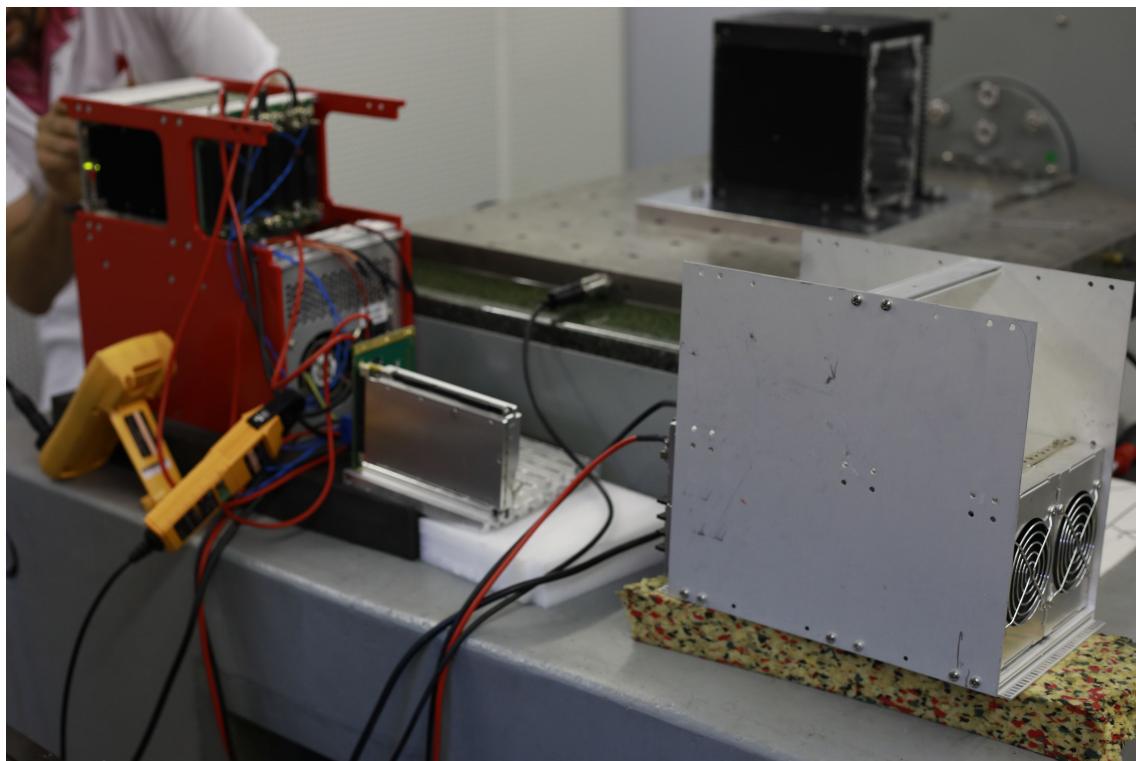


Image 7.5: Functional test after vibration test



Image 7.6: Functional test after vibration test



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7 Photo and diagram documentation

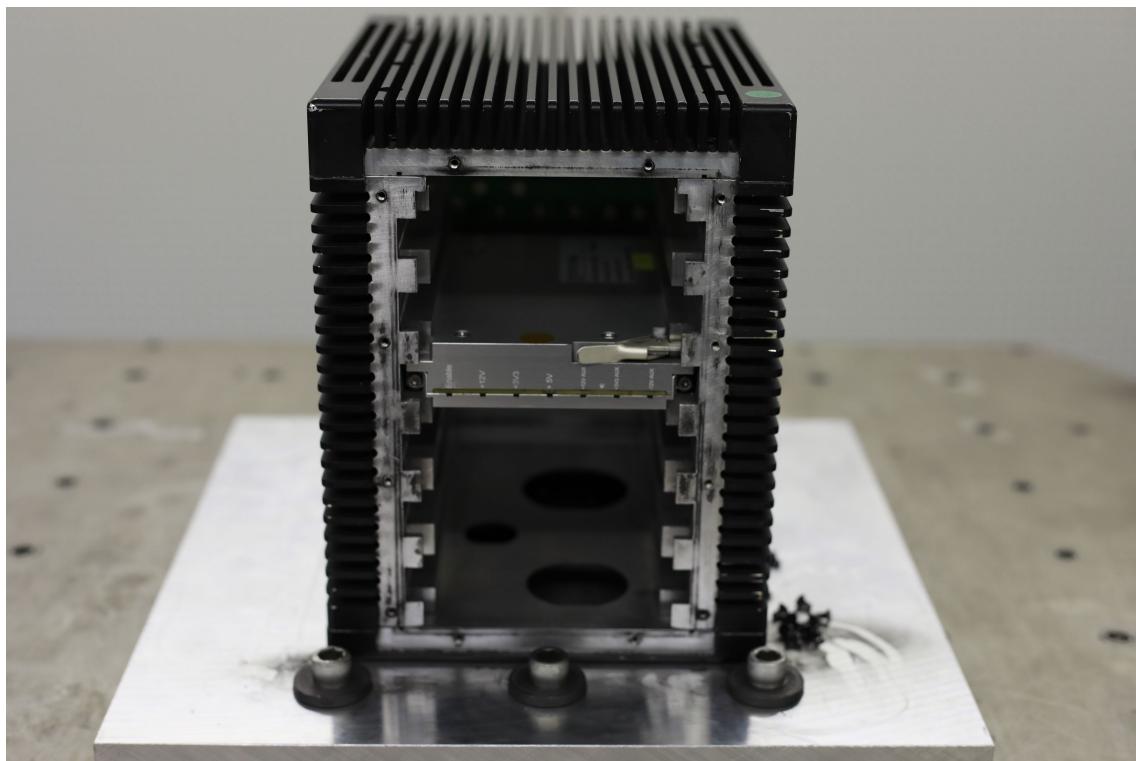


Image 7.7: Functional test after vibration test

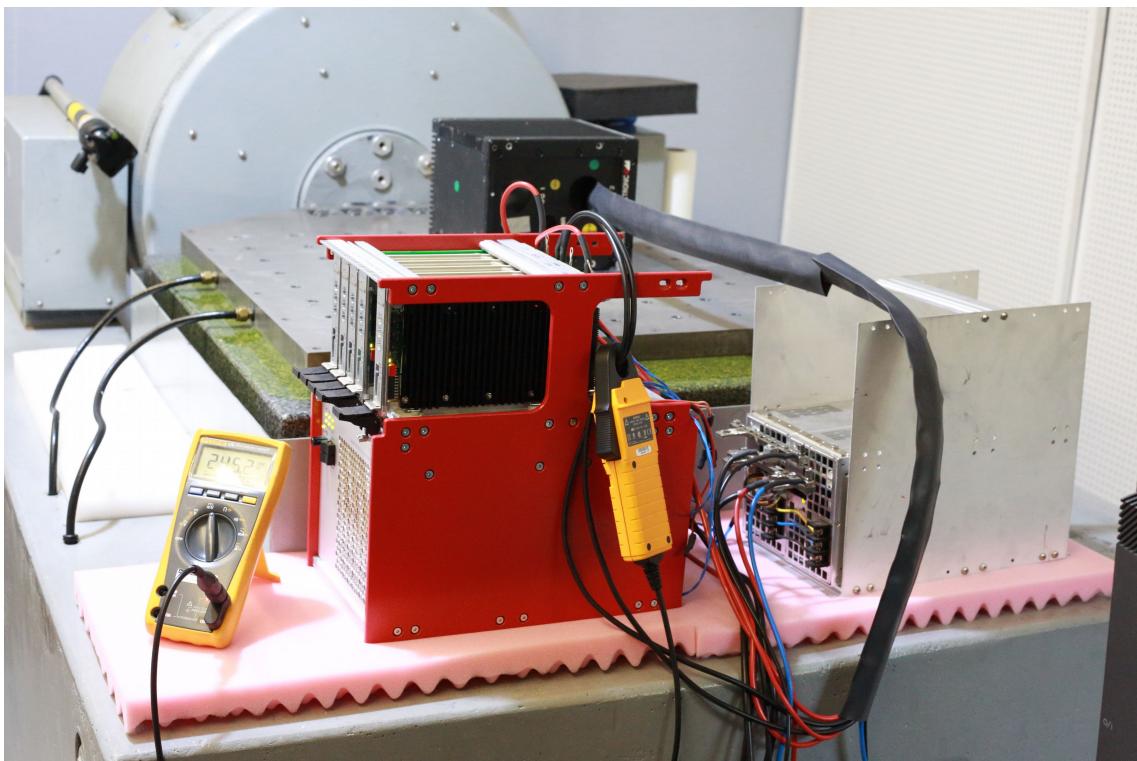


Image 7.8: UUT during shock test in Z-axis



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7 Photo and diagram documentation

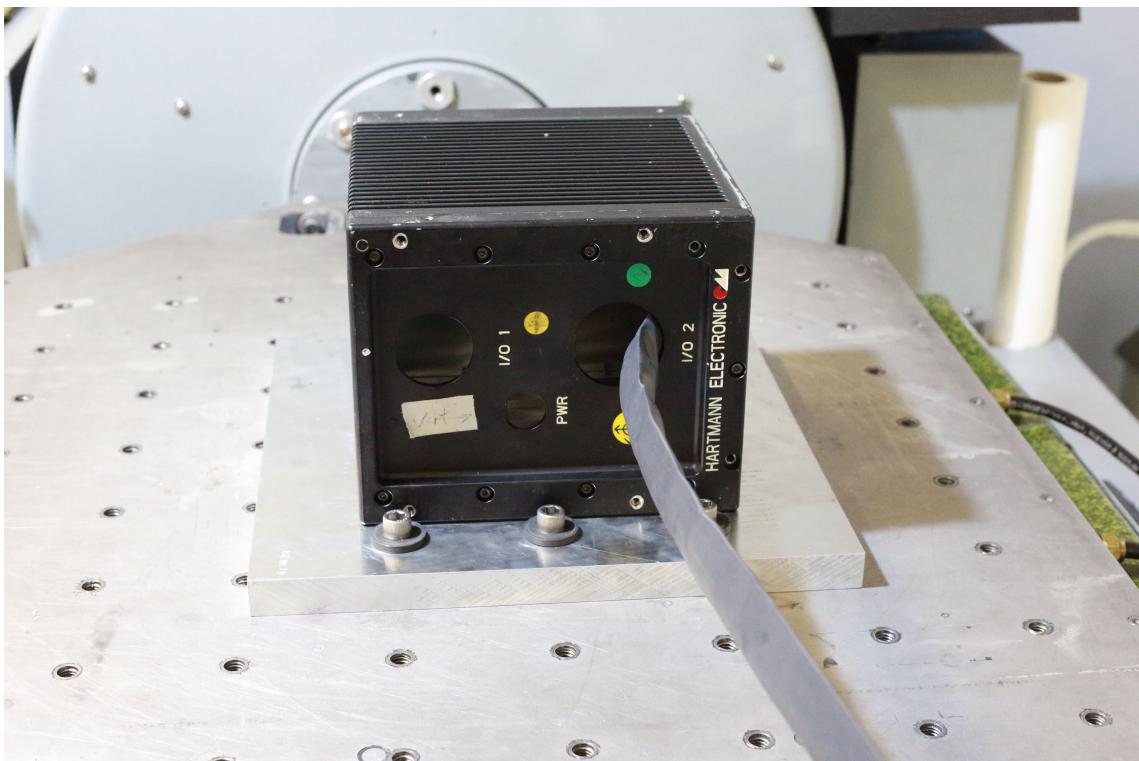


Image 7.9: UUT during shock test in Z-axis

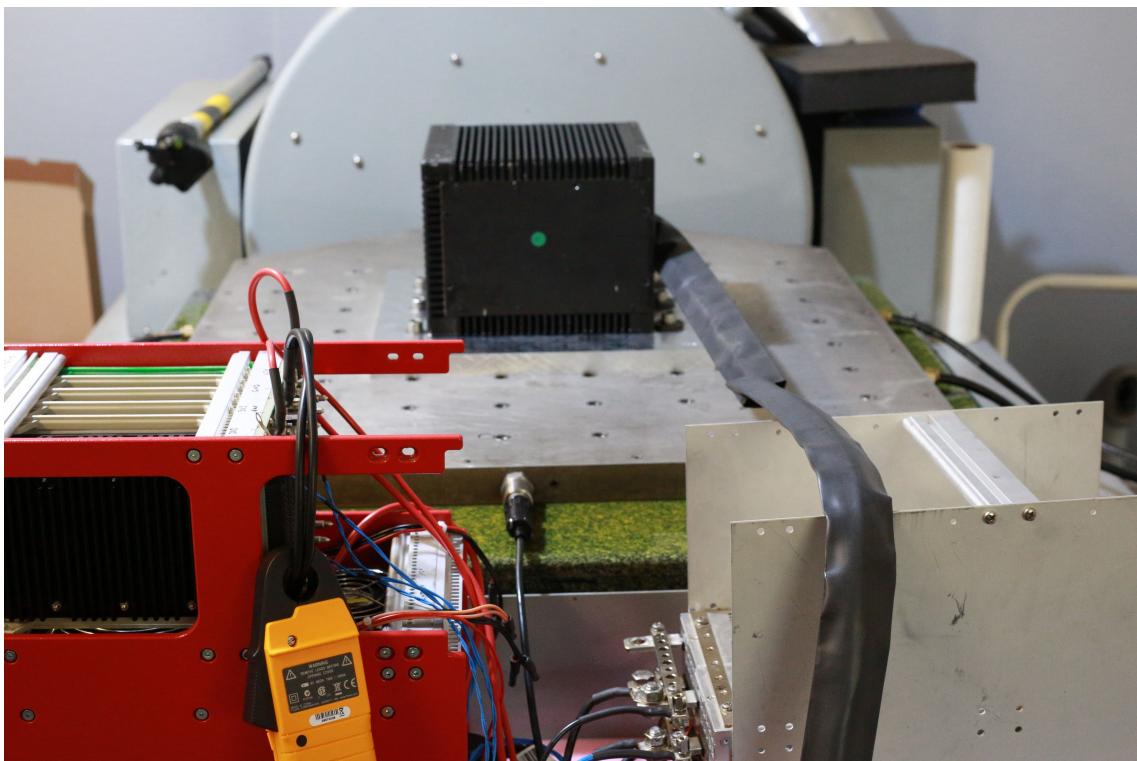


Image 7.10: UUT during shock test in X-axis



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7 Photo and diagram documentation

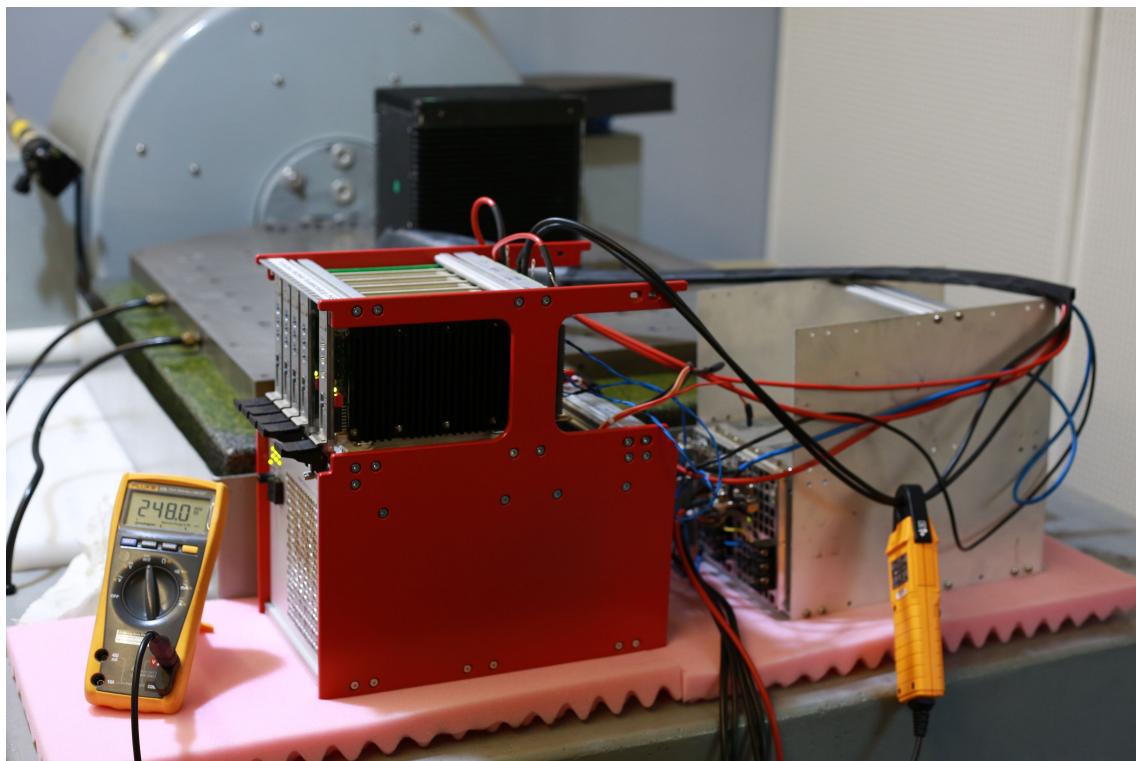


Image 7.11: UUT during shock test in Y-axis

7.2 Transportation Vibration test

- MIL-STD-810E, Method 514.4, Procedure I, Category 8 Table 514.4-AXVI: Transportation Vibration: 270 mins/axis for 3 axis, (Equipment installed in wheeled vehicles, trailers, and tracked vehicles).
- UUT: Not operating
- Frequency range: 5 Hz – 500 Hz
- Amplitude in g²/Hz: See *Image 3.1: Test program vertical, transverse and longitudinal axis*
- Test duration: 270 minutes per axis
- Number of axes: 3

7.2.1 Verticale

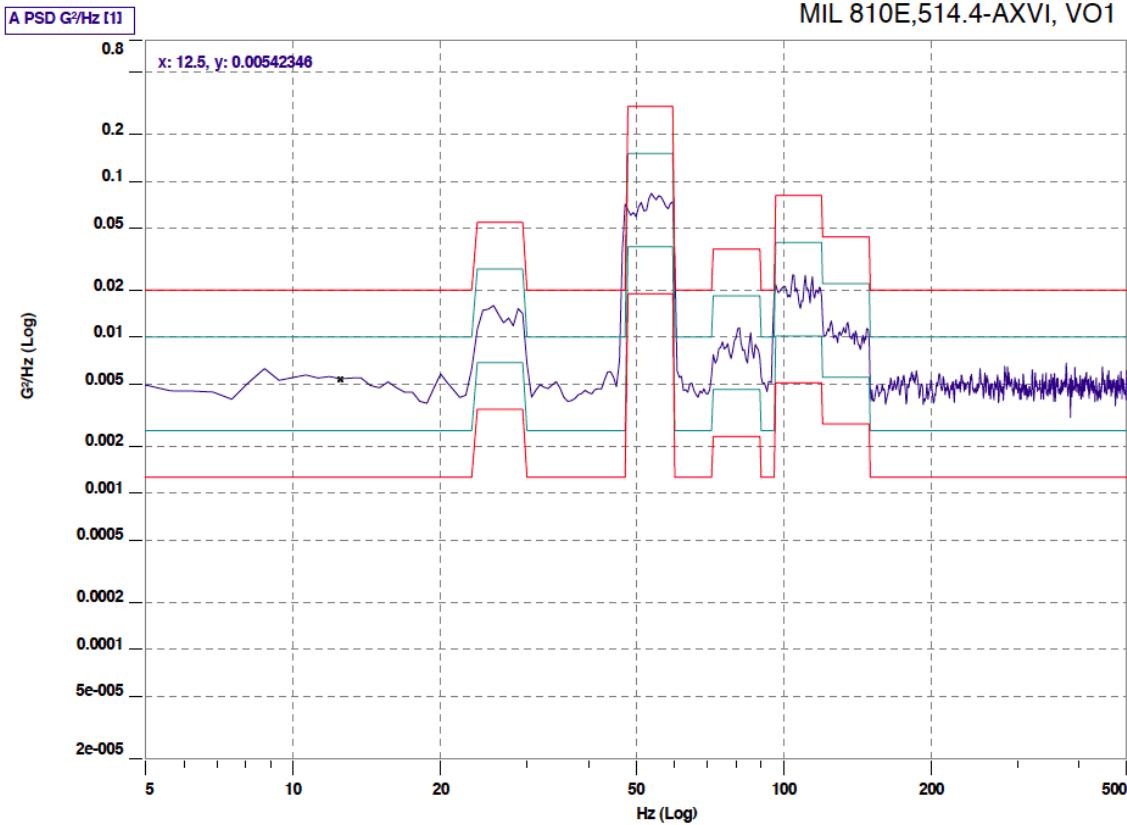


Diagram 1: MIL-STD-810E, Method 514.4 Procedure I, Category 8 Table 514.4-AXVI, VO1

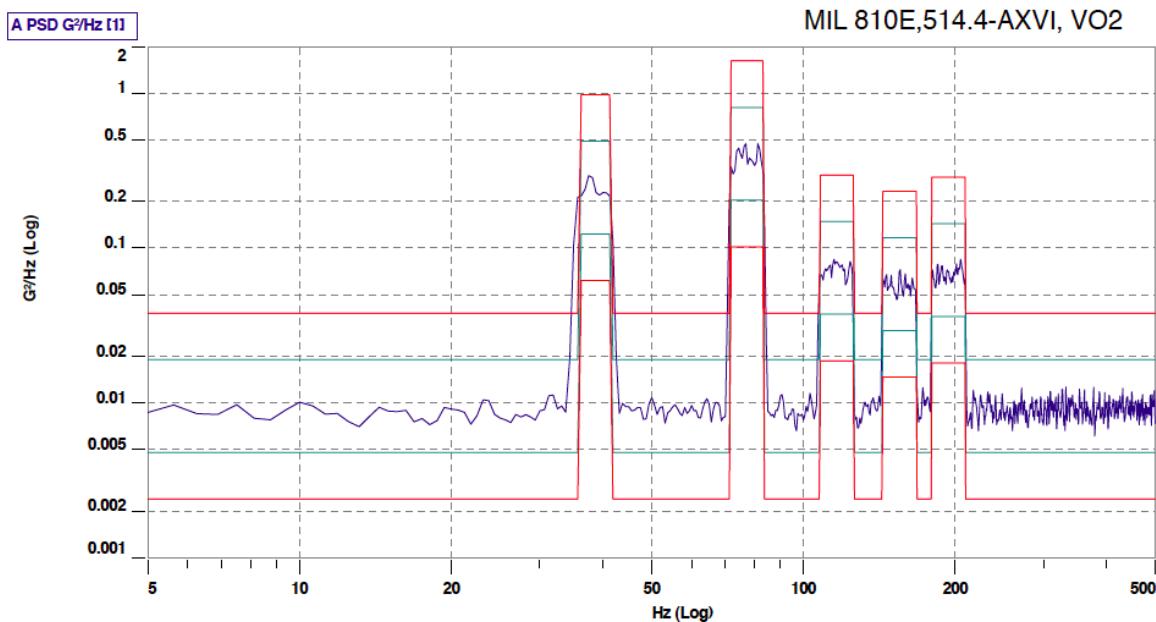


Diagram 2: MIL-STD-810E, Method 514.4 Procedure I, Category 8 Table 514.4-AXVI, VO2

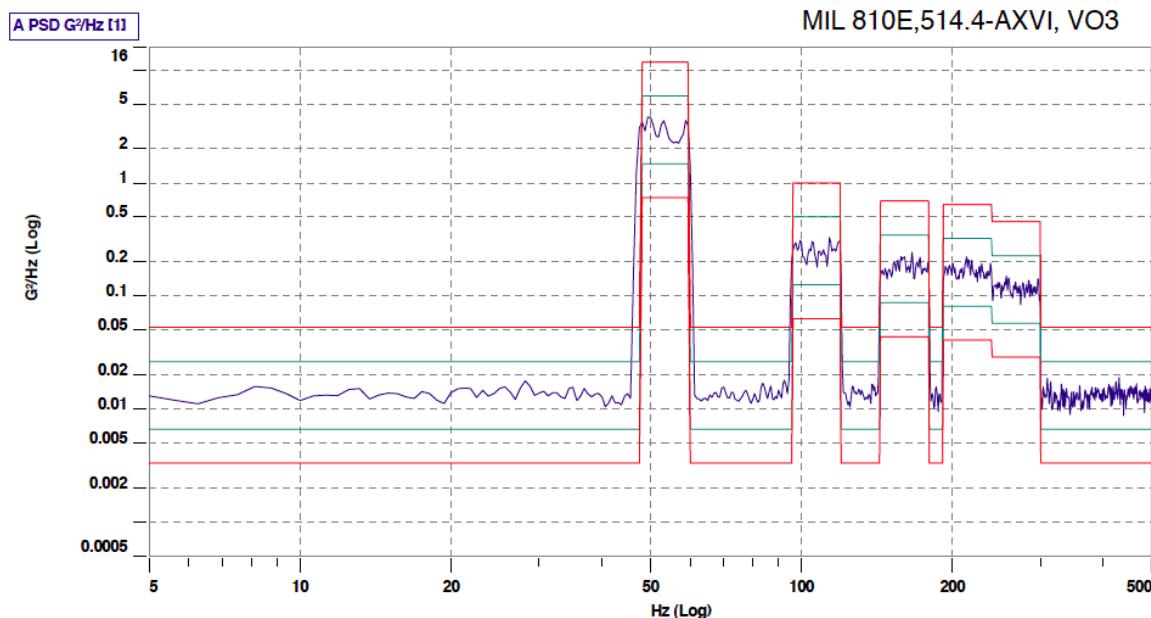


Diagram 3: MIL-STD-810E, Method 514.4 Procedure I, Category 8 Table 514.4-AXVI, VO3

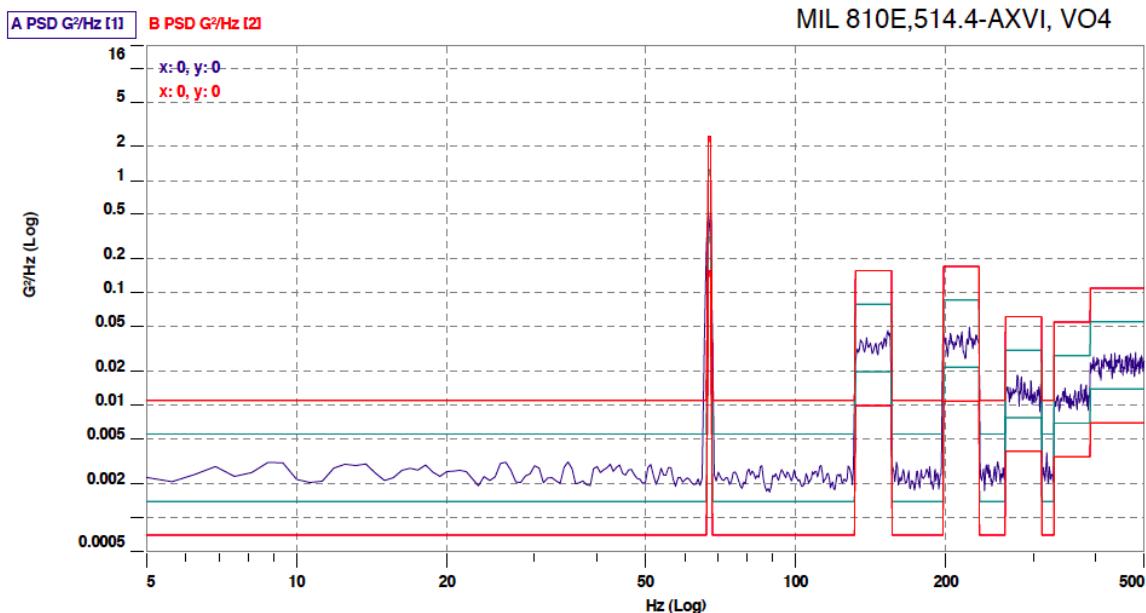


Diagram 4: MIL-STD-810E, Method 514.4 Procedure I, Category 8 Table 514.4-AXVI, VO4

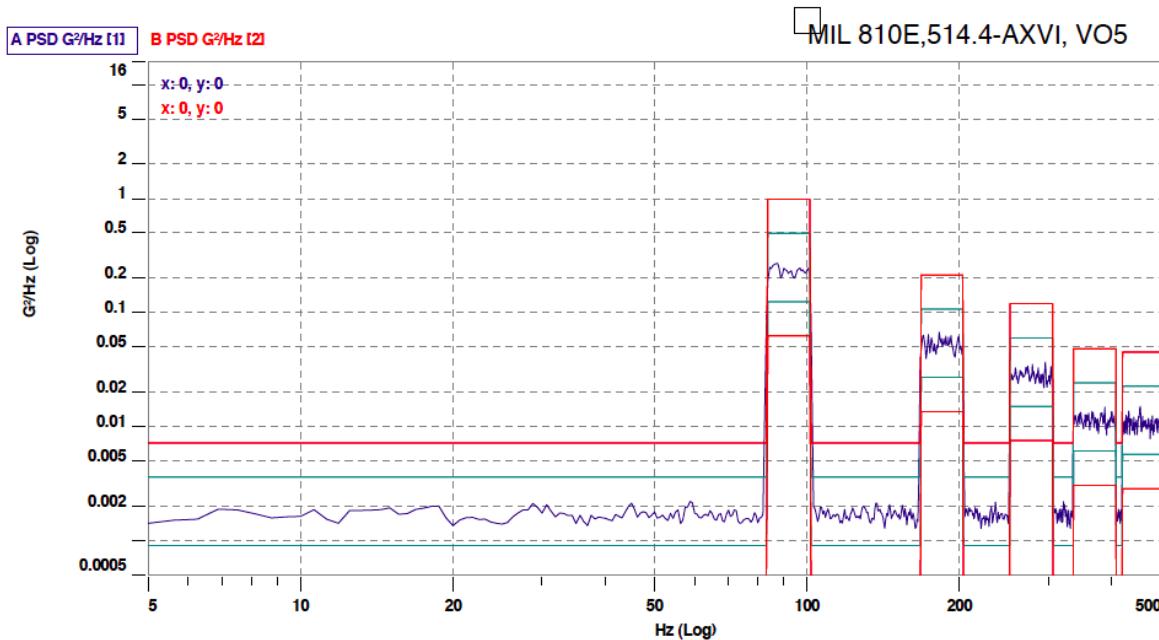


Diagram 5: MIL-STD-810E, Method 514.4 Procedure I, Category 8 Table 514.4-AXVI, VO5

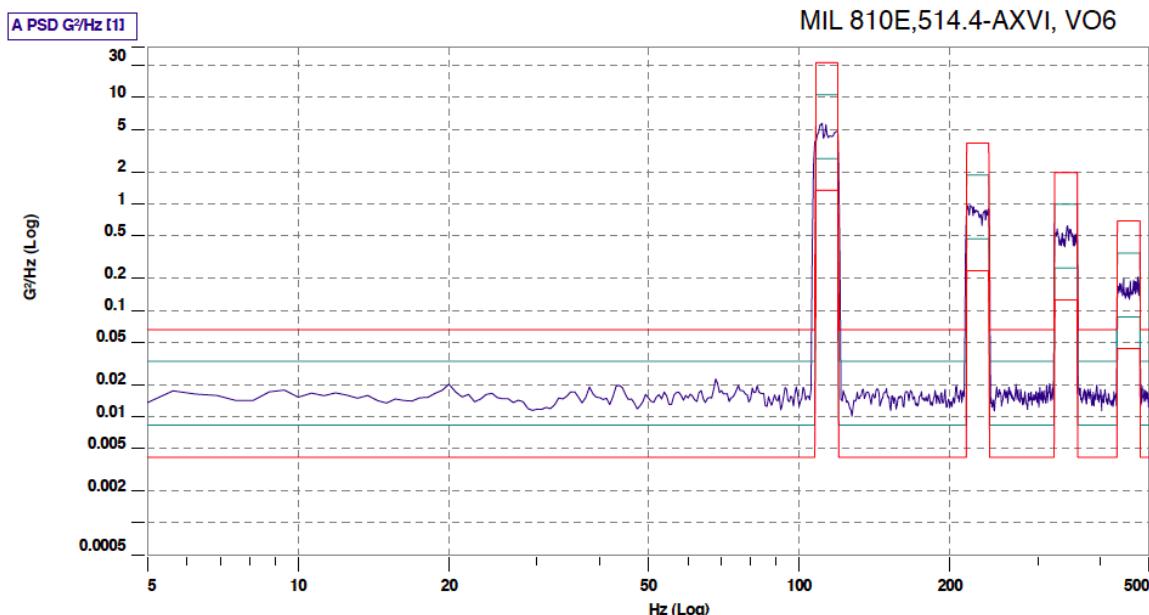


Diagram 6: MIL-STD-810E, Method 514.4 Procedure I, Category 8 Table 514.4-AXVI, VO6

7.2.2 Transverse

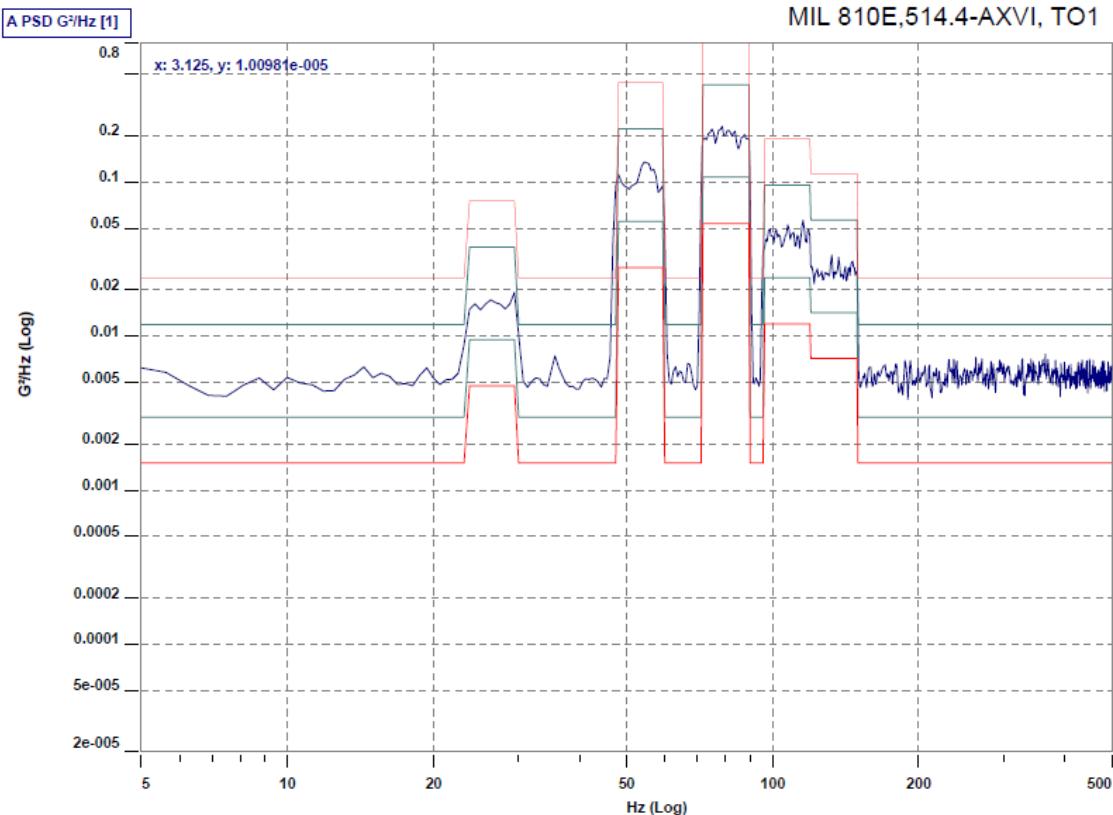


Diagram 7: MIL-STD-810E, Method 514.4 Procedure I, Category 8 Table 514.4-AXVI, TO1

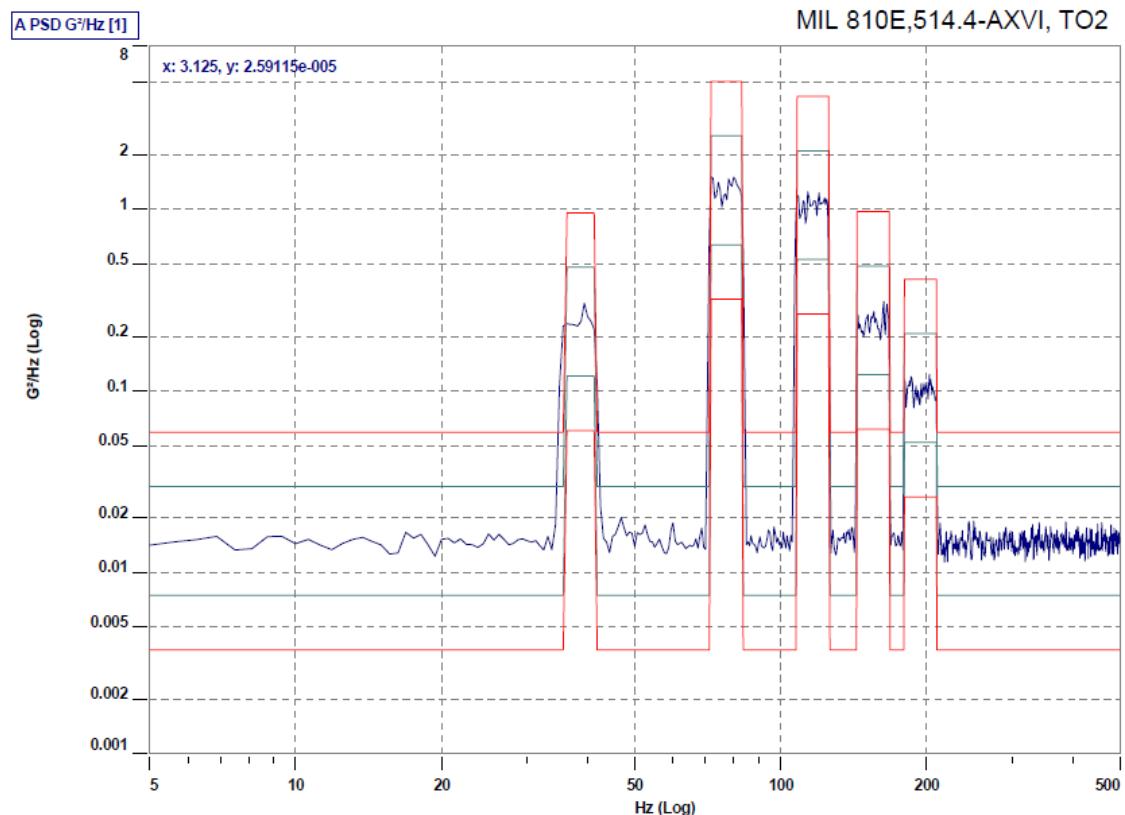


Diagram 8: MIL-STD-810E, Method 514.4 Procedure I, Category 8 Table 514.4-AXVI, TO2

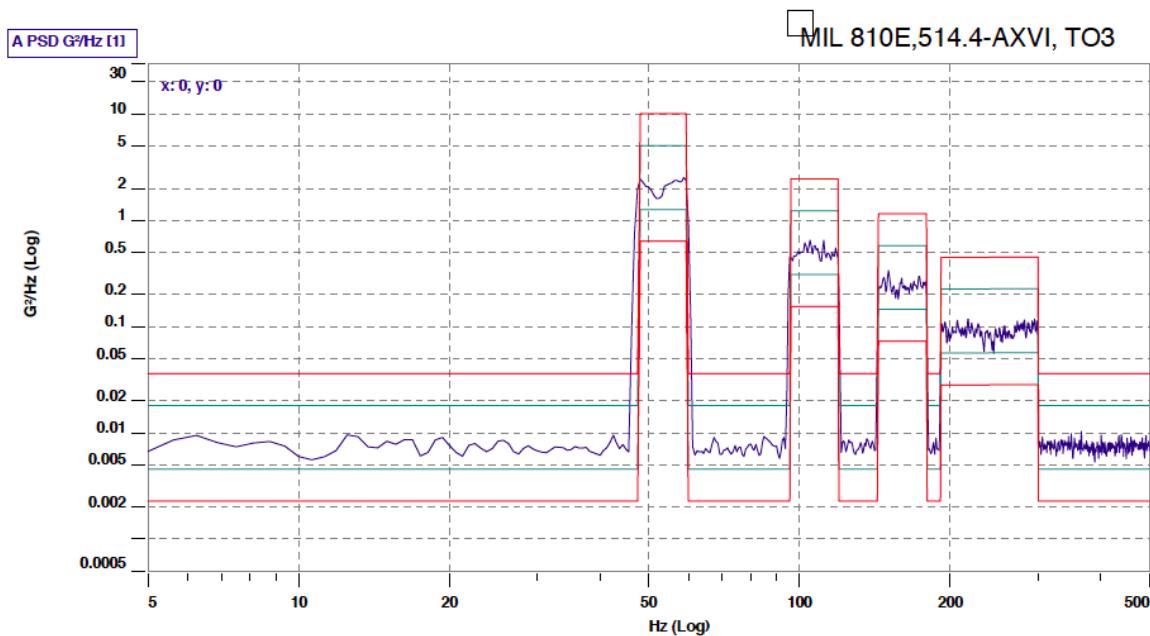


Diagram 9: MIL-STD-810E, Method 514.4 Procedure I, Category 8 Table 514.4-AXVI, TO3

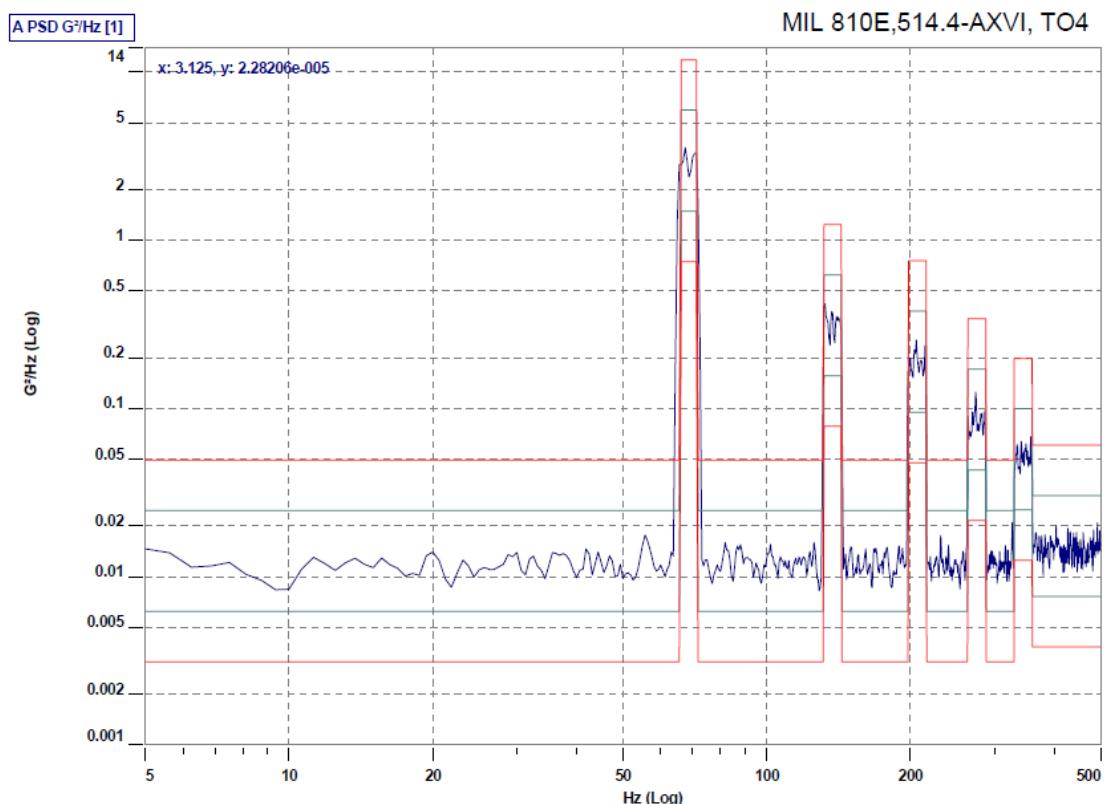


Diagram 10: MIL-STD-810E, Method 514.4 Procedure I, Category 8 Table 514.4-AXVI, TO4

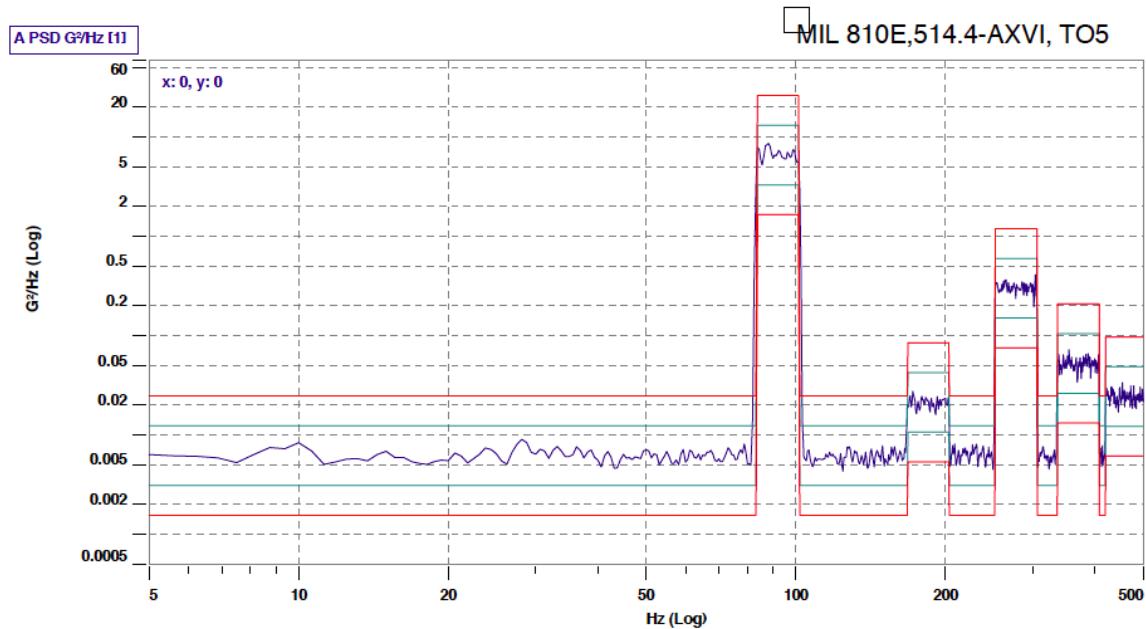


Diagram 11: MIL-STD-810E, Method 514.4 Procedure I, Category 8 Table 514.4-AXVI, TO5

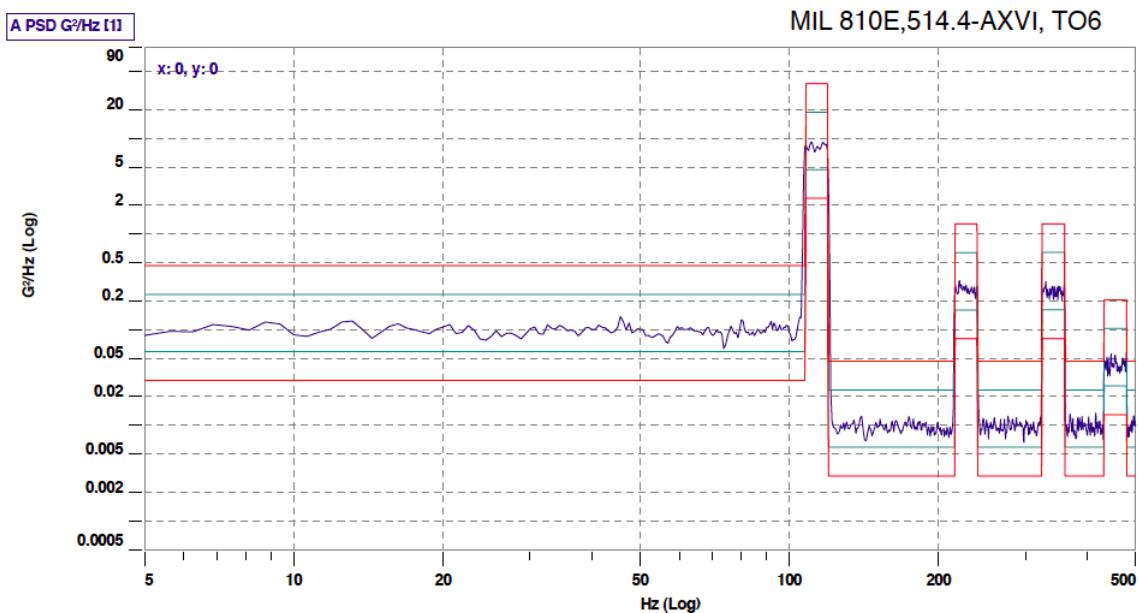


Diagram 12: MIL-STD-810E, Method 514.4 Procedure I, Category 8 Table 514.4-AXVI, TO6

7.2.3 Longitudinale

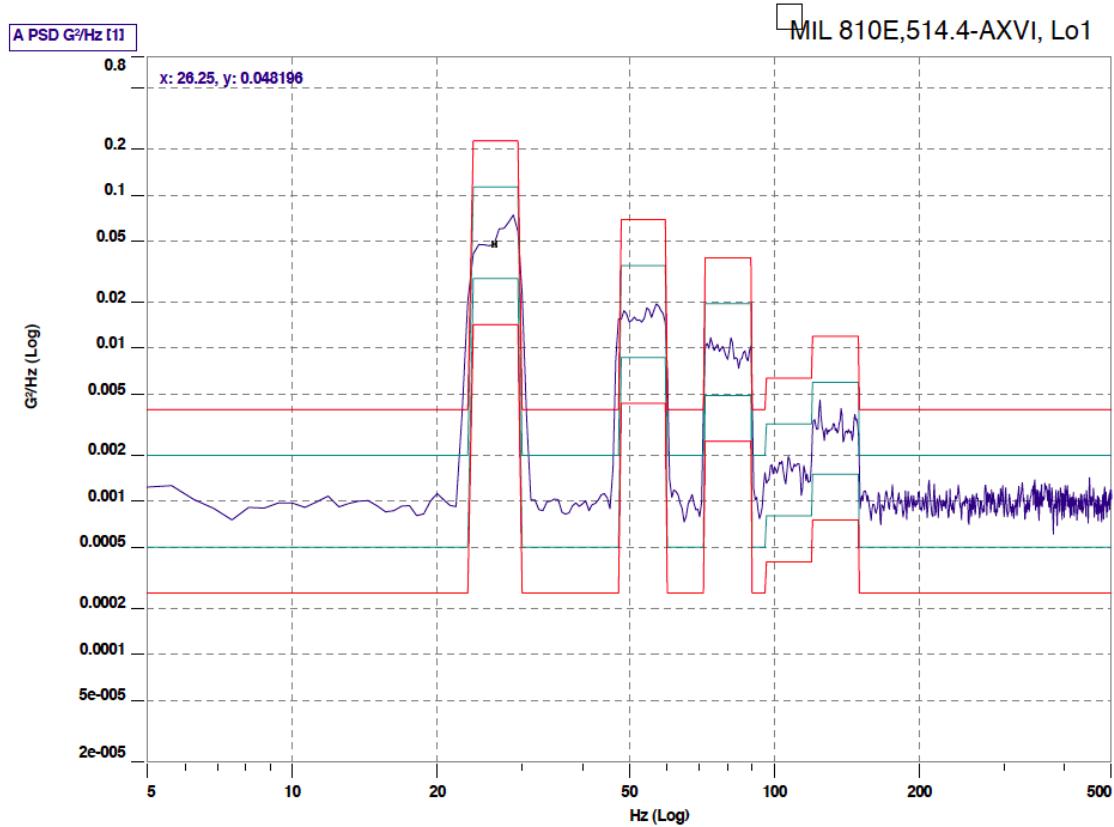


Diagram 13: MIL-STD-810E, Method 514.4 Procedure I, Category 8 Table 514.4-AXVI, LO1

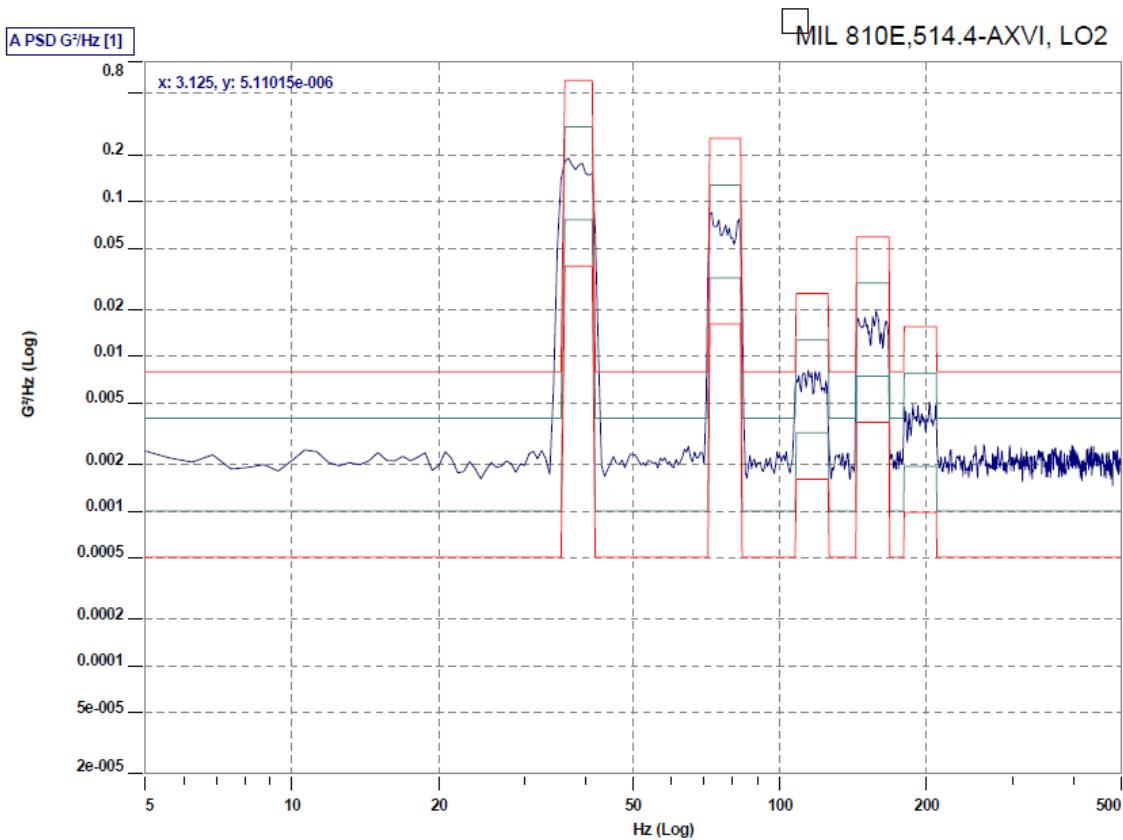


Diagram 14: MIL-STD-810E, Method 514.4 Procedure I, Category 8 Table 514.4-AXVI, LO2

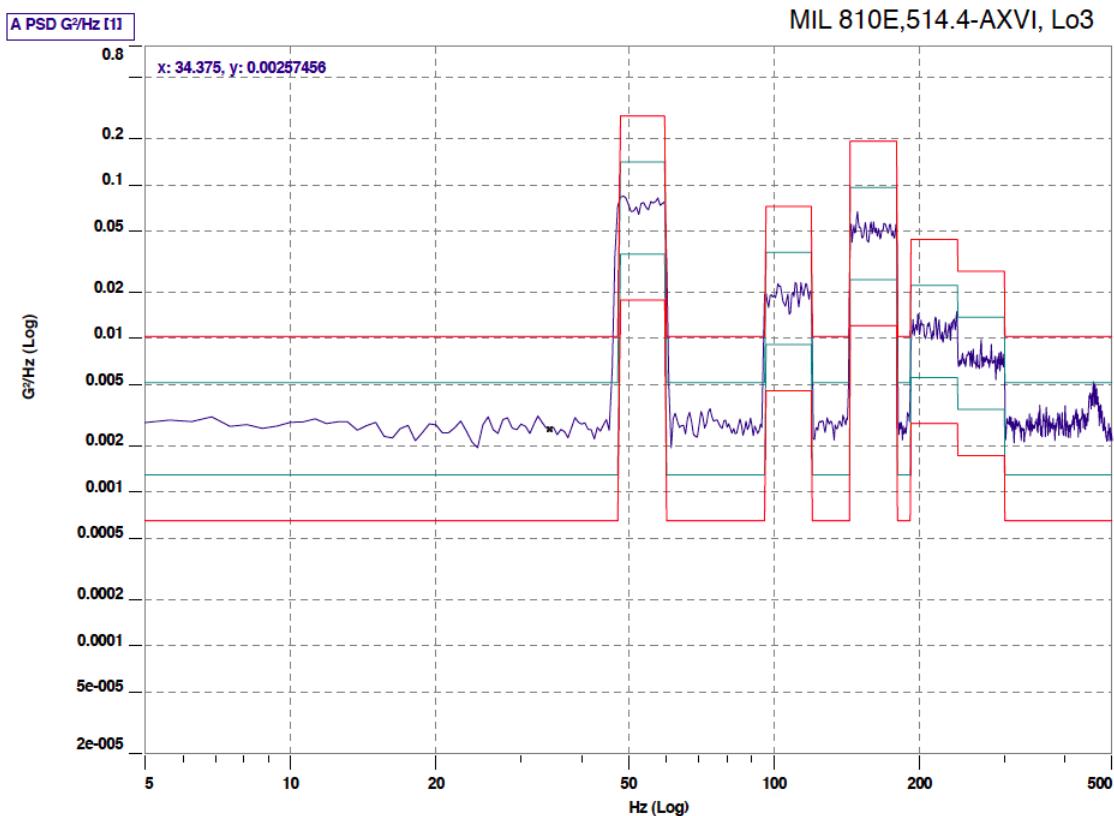


Diagram 15: MIL-STD-810E, Method 514.4 Procedure I, Category 8 Table 514.4-AXVI, LO3

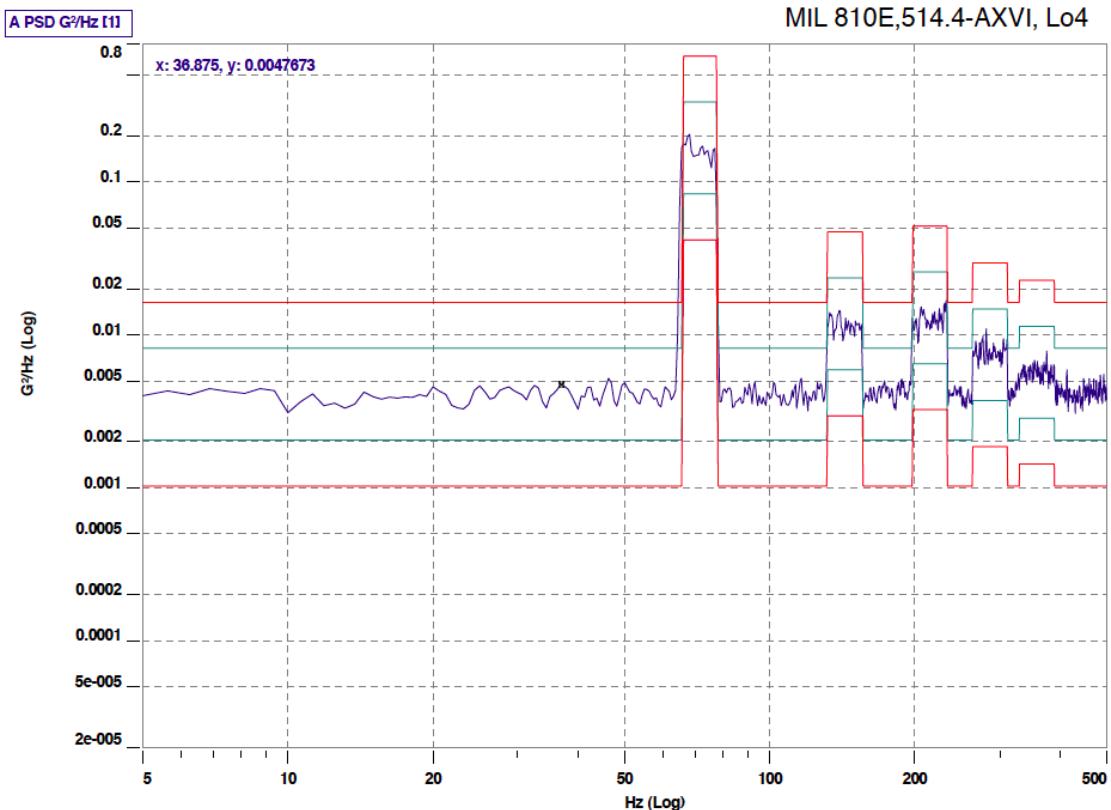


Diagram 16: MIL-STD-810E, Method 514.4 Procedure I, Category 8 Table 514.4-AXVI, LO4

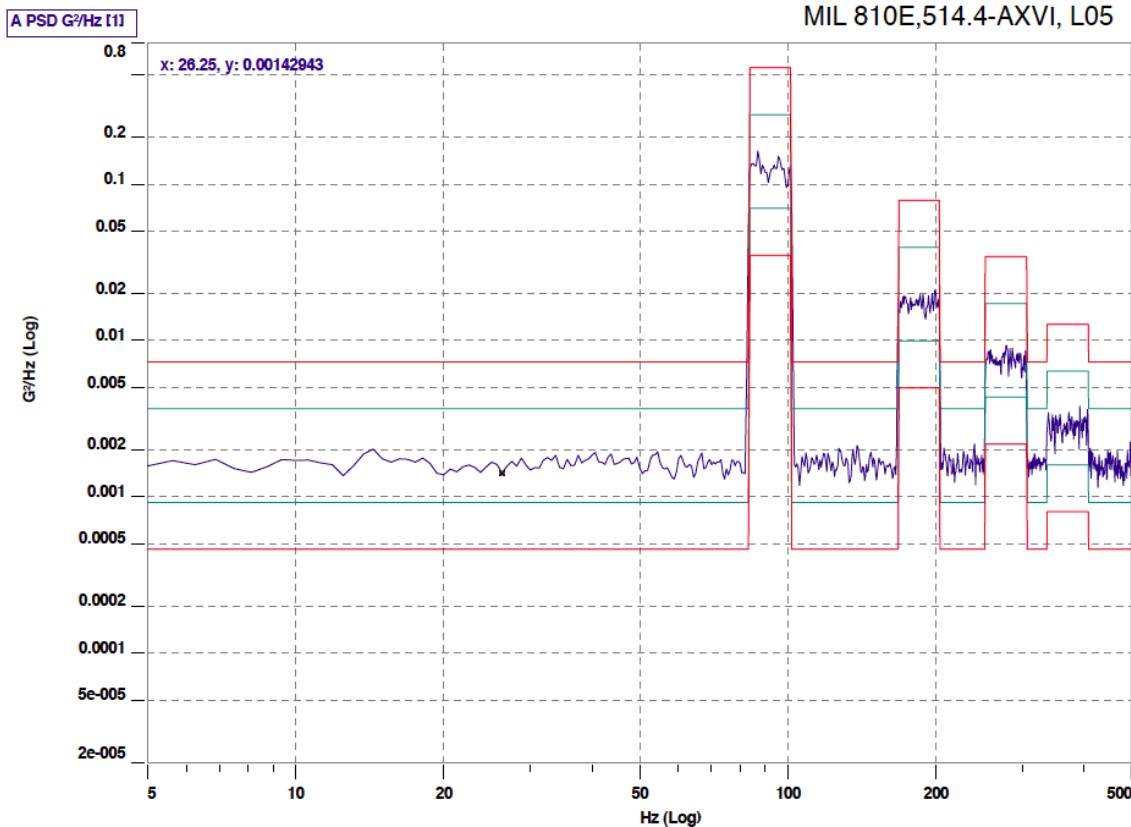


Diagram 17: MIL-STD-810E, Method 514.4 Procedure I, Category 8 Table 514.4-AXVI, L05

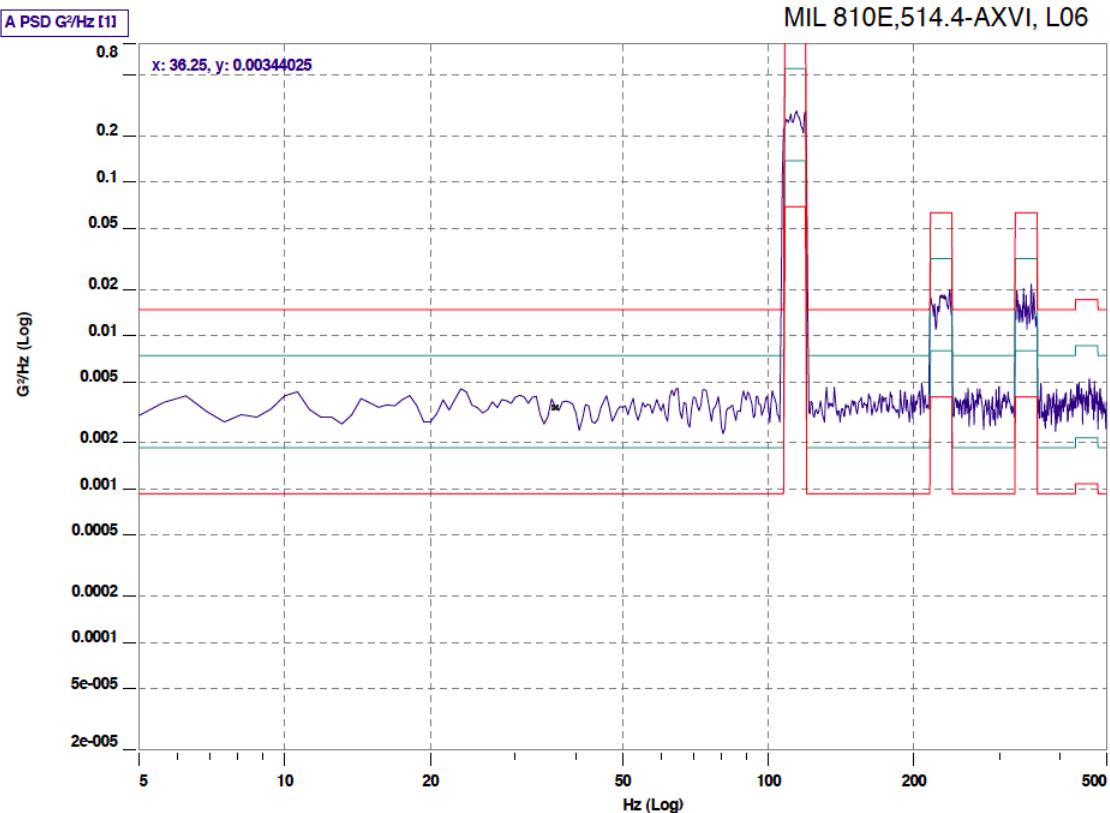


Diagram 18: MIL-STD-810E, Method 514.4 Procedure I, Category 8 Table 514.4-AXVI, L06

7.3 Functional Shock test

- MIL-STD-810G, Method 516.6, Procedure I: Functional Shock: 40 g 11 ms, terminal peak saw tooth pulse, 2 shock/axis in both direction for all 3 axis, total of 12 hit/shock.
- UUT: In operation
- Test under half load: 12 V / 9 A; 5 V / 9 A; 3.3 V / 9 A
- Acceleration: 40 g
- Pulse width: 11 ms
- Shock form: Saw tooth
- Number of shocks: 4 per axis (Total: 12 Shocks)
- Orientations of Shocks: X₊, X₋, Y₊, Y₋, Z₊, Z₋

7.3.1 Diagram functional shock

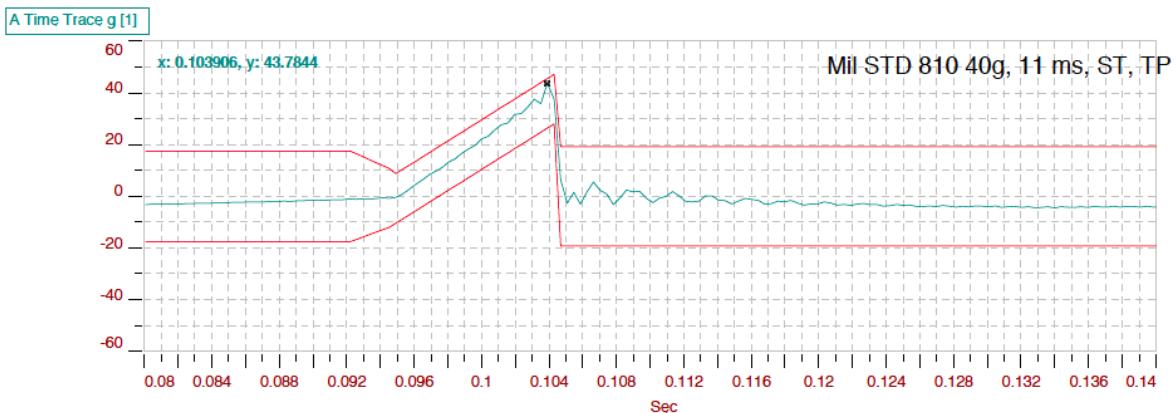


Diagram 19: MIL-STD-810G, Method 516.6, Procedure I

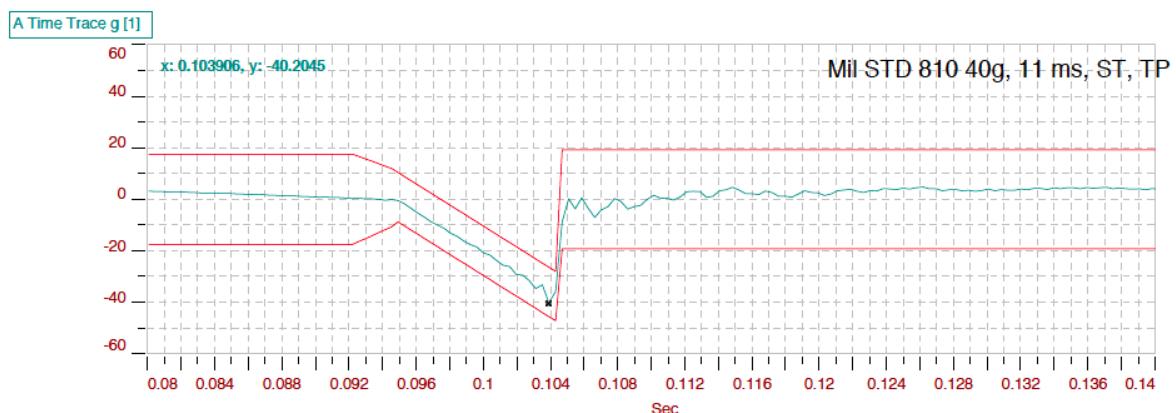


Diagram 20: MIL-STD-810G, Method 516.6, Procedure I

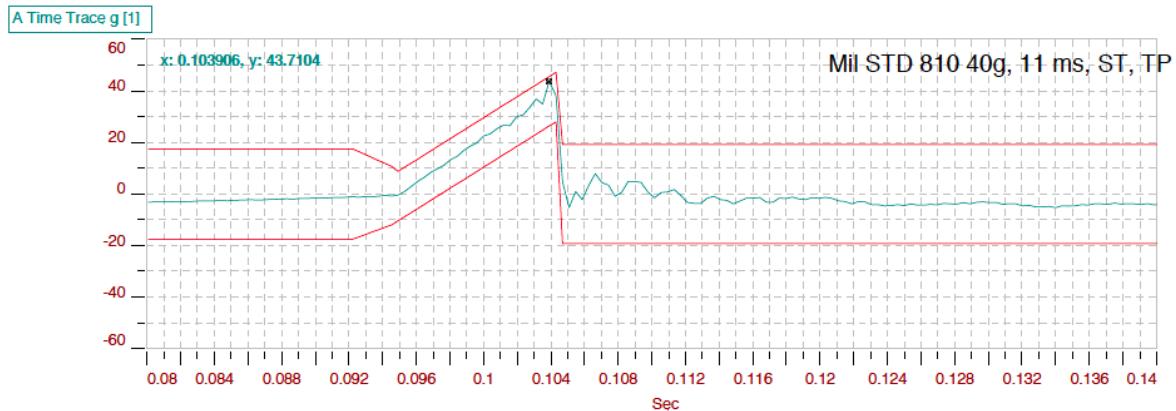


Diagram 21: MIL-STD-810G, Method 516.6, Procedure I

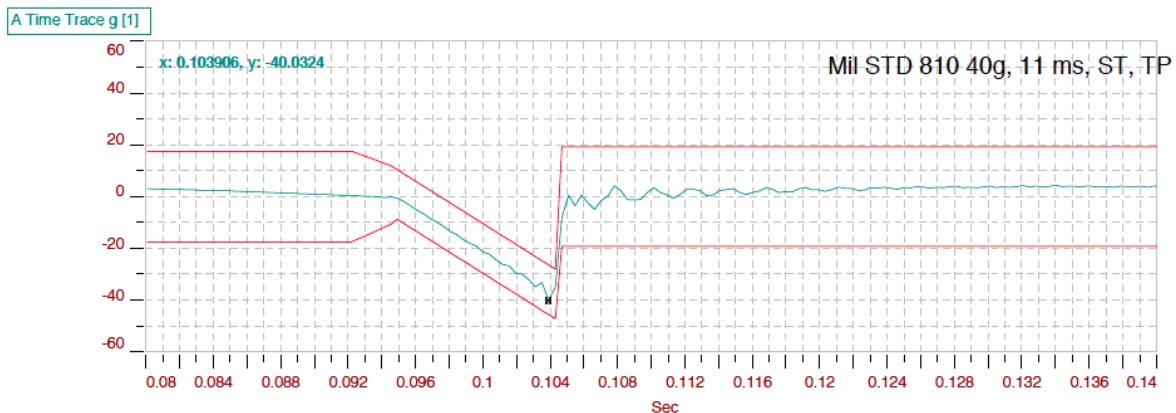


Diagram 22: MIL-STD-810G, Method 516.6, Procedure I

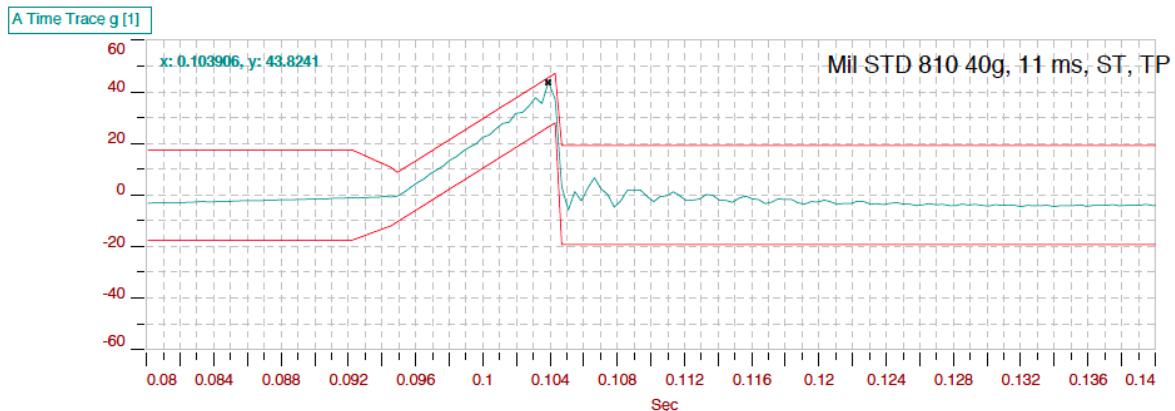


Diagram 23: MIL-STD-810G, Method 516.6, Procedure I



Diagram 24: MIL-STD-810G, Method 516.6, Procedure I