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Document: VR2182003NELA.doc	Issue: 0	Page. 1 of 23

Masate, February 10th, 2022

COVER PAGE

Elaborated for: NERI SpA

Address: SS EMILIA 1622
47020
LONGIANO (FC)

Test begun on: February 1st, 2022

At presence of: \

Performed by: Ing. Marco SANNICANDRO

Elaborated by: Ing. Marco SANNICANDRO

Approved by: Ing. Ermes TARALLO

Test performed in: Centrotecnica S.r.l.
Via F. Confalonieri, 23
20060
Masate (MI)

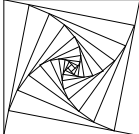
This document is distributed to:
NERI SpA as above



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Document: VR2182003NELA.doc	Issue: 0	Page. 2 of 23

1. INDEX

1. INDEX	2
2. HARDWARE DESCRIPTION	3
2.1 ITEMS	3
2.2 FIXTURES	3
3. TEST METHOD	4
3.1 STANDARD	4
3.1.1 TESTS PROFILES	5
3.2 TEST SEQUENCE	6
4. TEST DESCRIPTION	7
4.1 HARDWARE PREPARATION	7
4.2 ACCELEROMETERS MOUNTING	7
4.3 GENERAL CONTROL AND MEASUREMENT STRATEGIES. CHANNELS AND TEST POINTS (T.P.) DESCRIPTION.	7
4.4 PICTURES	8
4.4.1 SETUP FOR X AXIS	8
4.4.2 SETUP FOR Y AXIS	8
4.4.3 VISUAL CHECK OF EUT	9
4.4.4 MEASURE ACCELEROMETER DETAIL	9
5. TEST HISTORY	10
6. CONCLUSION	11
7. USED FACILITIES AND CALIBRATION	12

Notes

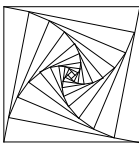
EUT = Equipment Under Test
TP = Test Point
Date format = (dd/mm/yyyy)



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Document: VR2182003NELA.doc	Issue: 0	Page. 3 of 23

2. HARDWARE DESCRIPTION

2.1 ITEMS

The object to be tested in these tests is described in the following:

Name: Lang
Serial N.: Lang 32+32

Overall dimensions of unit:

Width: 585 mm
Height: 770 mm
Weight: 17 kg

Centrotecnica Code: P40648

The sampling has been performed at Customer responsibility

EUT description has been declared by Customer as per
VD2182001NELA_CONFERMA TECNICA

2.2 FIXTURES

To interface the unit to be tested to the test machine, the following fixtures have been used:

Fixture N.: LAC68 - 1006

Type: Fixture per lampada
Material: Inox
Dimensions:
Height: 130 mm
Mass: 2.8 kg
Mounting: 4 M8 screws

Fixture N.: LAB134 - 1001

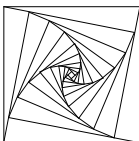
Type: Plate
Material: Aluminium
Dimensions:
Length: 328 mm
Width: 328 mm
Height: 20 mm
Mounting: M8 screws



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Document: VR2182003NELA.doc	Issue: 0	Page. 4 of 23

3. TEST METHOD

According to Customer's Test Plan, the following specifications and test sequence have been applied:

3.1 STANDARD

These tests are aimed to impose to the item the following test levels:

REFERENCE PROC.:	IEC 60068-2-6:2007
RELEVANT SPEC.:	CEI EN IEC 60598-1:2021-04
PROFILE:	S) SINE VIBRATION TEST

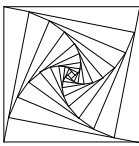
Reference laboratory test procedure: PT0901 issue 6



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Document: VR2182003NELA.doc	Issue: 0	Page. 5 of 23

3.1.1 TESTS PROFILES

S) SINE VIBRATION TEST

Test Parameters

Signal Plot Points: 256 **Control Strategy:** Single Channel
Linear average number: 30 **Initial drive (V):** 0.005
Drive limit (V Pk): 2 **Sweep Type:** Logarithmic
Measurement Strategy: Filter **Filter Type:** Proportional Filter
Bandwidth (%): 25 **Abort sensitivity:** 0.50
Compression Rate: Fast **Ramp Rate:** Slow

Testing Profile

Frequency	Acceleration	Velocity	Displacement	High Abort	High Alarm	Low Alarm	Low Abort
10 Hz	0.0704494 g	0.0109 m/s	0.35 mm	3 dB	1.5 dB	-1.5 dB	-3 dB
55 Hz	2.13109 g	0.0604 m/s	0.35 mm	3 dB	1.5 dB	-1.5 dB	-3 dB

Run Schedule

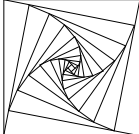
12.19793 Sweeps; Start: 10Hz; Range: 10Hz to 55Hz; Level: 0.00dB; Duration: 00:30:00
Save signals to PC (Save results to PC)
My Report (Create Report(My Report))



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Document: VR2182003NELA.doc	Issue: 0	Page. 6 of 23

3.2 TEST SEQUENCE

Test Profile	Unit Axis*
S) SINE VIBRATION TEST	X
S) SINE VIBRATION TEST	Y

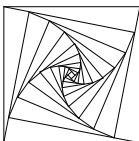
* See following paragraph 4.4 for the reference test axes.



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Document: VR2182003NELA.doc	Issue: 0	Page. 7 of 23

4. TEST DESCRIPTION

4.1 HARDWARE PREPARATION

The EUT was mounted on fixture n.LAC068-1006 which was previously mounted on V850 shaker slip table through fixture plate n.134.

Environmental Condition measured at the beginning of Test:

Temperature: 22.2°C +/- 1°C

Relative Humidity : 48%+/- 5%

4.2 ACCELEROMETERS MOUNTING

The accelerometers property of Centrotecnica have been mounted by way of dedicated biadhesive labels or cyanoacrylic glue or screw.

Accelerometers mounting procedure is in agreement with UNI ISO 5348 "Montaggio meccanico degli accelerometri" in the last edition.

4.3 GENERAL CONTROL AND MEASUREMENT STRATEGIES. CHANNELS AND TEST POINTS (T.P.) DESCRIPTION.

In all the runs one control accelerometer has been used to keep control of the test level imposed by the shaker and one accelerometer has been used to measure the response of the EUT.

Pictures at para 4.4 and following table make clear the disposition of the Tests Points.

Location ID	Measurement Quantity	Sensitivity	Input Mode	Channel Type	Sensor S/N
TP1_Ctrl_Fix	Acceleration	97.5369 (mV/g)	IEPE	Control	CPA193
TP3-Meas_EUT Lang	Acceleration	10.3656 (mV/g)	IEPE	Monitor	CPA176



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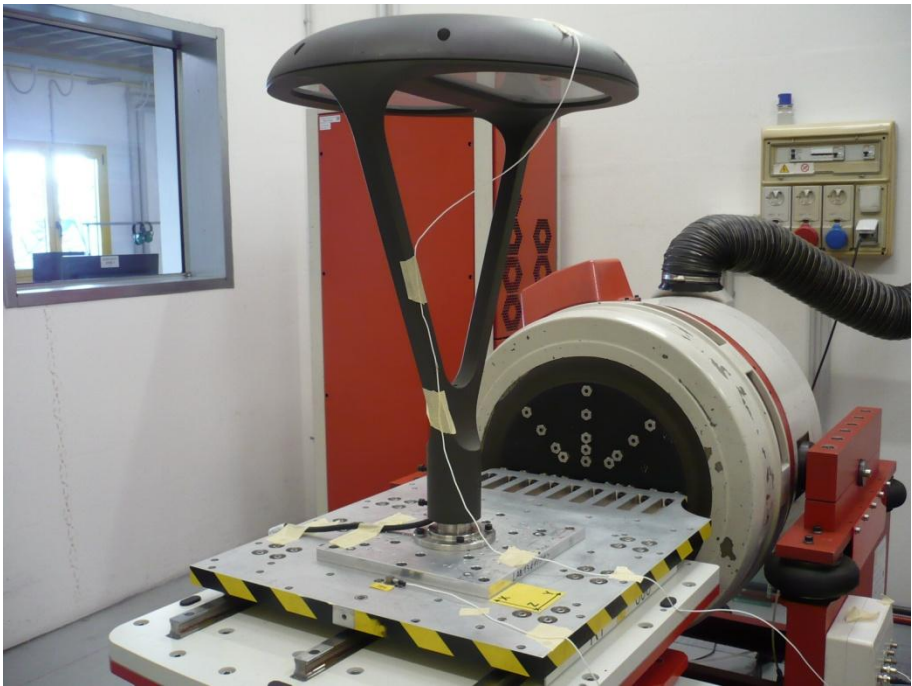
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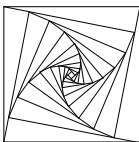
4.4 PICTURES

4.4.1 SETUP FOR X AXIS



4.4.2 SETUP FOR Y AXIS



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Document: VR2182003NELA.doc	Issue: 0	Page. 9 of 23

4.4.3 VISUAL CHECK OF EUT



4.4.4 MEASURE ACCELEROMETER DETAIL



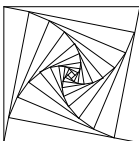
TP3 detail



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Document: VR2182003NELA.doc	Issue: 0	Page. 10 of 23

5. TEST HISTORY

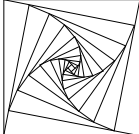
DATE	HOUR	RUN	AXIS	TEST PROFILE	NOTE
Feb 02 nd '22					Initial visual check of the EUT
					X axis setup
					Accelerometer gluing and setting in T.P.1 and T.P.3
					Controller programming
	12.43	1	X	S	Start of sine test
					Visual checks of the EUT
					Accelerometer in T.P.3 removed
					Y axis setup
					Accelerometer gluing and setting in T.P.3
					Controller programming
	13.57	2	Y	S	Start of sine test
					Visual checks of the EUT
					Accelerometers removed
					EUT removed
	14.30				End of tests



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Document: VR2182003NELA.doc	Issue: 0	Page. 11 of 23

6. CONCLUSION

After having been subjected to environmental tests as described in this document a visual inspection, performed as per VD2182001NELA_CONFERMA TECNICA dated 25/01/2022 doesn't show any mechanical damage on item

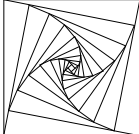
Name: Lang
Serial N.: Lang 32+32



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Document: VR2182003NELA.doc	Issue: 0	Page. 12 of 23

7. USED FACILITIES AND CALIBRATION

Shaker

LDS Mod. V850 S/N 83903/1

Control Instrumentation

Crystal Mod. Spider-80X S/N 2595264

LAST CALIBRATION : 05/05/2021
CAL. DUE DATE : 05/05/2022
CALIBRATED BY : Centrotecnica
CERTIFICATE N. : CT-RR-2021-006

Accelerometer

LABEL	MADE BY	MODEL	SERIAL NUM.	CALIB. DATE	CAL. DUE DATE	CERTIF. NUM.	SENSITIVITY	MASS
CPA193	BRUEL&KJAER	4057	2054275	23/07/2021	23/07/2022	38465	9.946 mV/(m/s ²)	4.8 g
CPA176	DYTRAN	3097A1	3599	23/07/2021	23/07/2022	38433	1.057 mV/(m/s ²)	4.3 g

All accelerometers are calibrated by:

CENTROTECNICA S.r.l.
CENTRO LAT N. 111

Thermohygrometer

PCE Mod. PCE - THB 40 S/N R061879

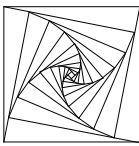
LAST CALIBRATION : 27/07/2021
CAL. DUE DATE : 27/07/2024
CALIBRATED BY : LAT 123
CERTIFICATE N. : 21-SU-1104/1105



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Document: VR2182003NELA.doc	Issue: 0	Page. 13 of 23

Vibration amplitude uncertainty

The measurement uncertainties stated in this document have been determined according to the ISO/IEC Guide 98 and to EA-4/02.

They have been estimated as expanded uncertainty obtained multiplying in the standard uncertainty by the coverage factor $k=2$ corresponding to a confidence level of about 95%.

The calculated uncertainty for acceleration is 10%.

Cross axis motion

The cross axis motion of the shaker has been measured and comply with the following test requirements:

IEC 60068-2-6: 2007 par 4.1.2.1 (sine vibration): not exceed 50% up to 500Hz and 100% up to 2000 Hz.

IEC 60068-2-64:2008 par 4.3 (random vibration): not exceed -3 db up to 500 Hz and 0 db up to 2000 Hz; rms value not exceed 50%.

IEC 60068-2-27:2008 (shock test): not exceed 30%.

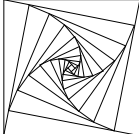
In case of large items the above values can be verified during test.



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Document: VR2182003NELA.doc	Issue: 0	Page. 14 of 23

ANNEXES

1 - X AXIS - SINE VIBRATION TEST

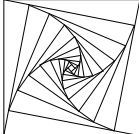
2 - Y AXIS - SINE VIBRATION TEST



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Document: VR2182003NELA.doc	Issue: 0	Page. 15 of 23

ANNEX 1

EUT LANG

S/N : LANG 32+32

AXIS : X

SINE VIBRATION TEST

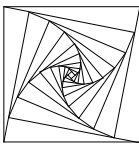
(3 PLOTS)



LAB 1439 L

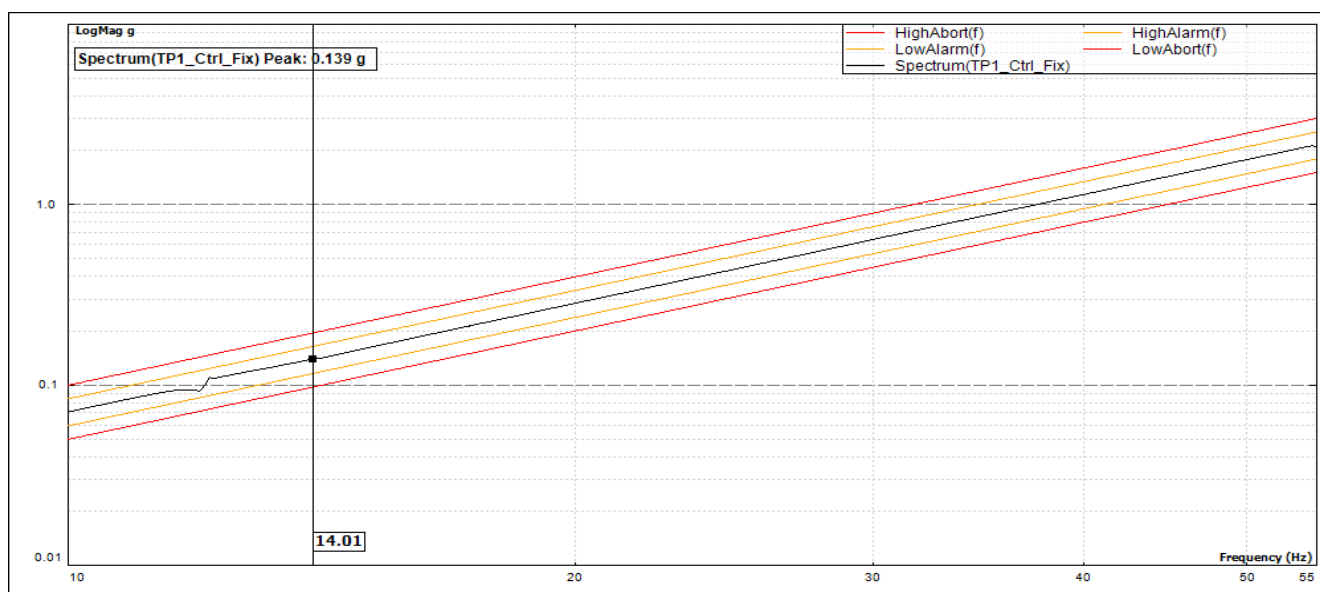
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Document: VR2182003NELA.doc	Issue: 0	Page. 16 of 23

Report time: Feb-02-2022, 13:13:50 **Data measured at:** Feb-02-2022, 13:13:50
Test name: Sine test **Test type:** VCS (Swept Sine)
Test status: Test Running **Run folder:** RUN 5-SINE X_EUT PNLANL_1 Feb 02, 2022 12-43-41

Control Composite



Level: 0.0 dB **Control Pk:** 0.139 g **Remaining:** 00:00:00
Full level elapsed: 00:30:00 **Control Strategy:** Single Channel **Sweeping Rate:** 1 Oct/Min
Sweep Number: 13 **Current Frequency:** 14.01 Hz **Signal Plot Points:** 256
Sweep Type: Logarithmic **Run Start Time:** Feb-02-2022, 12:43:42

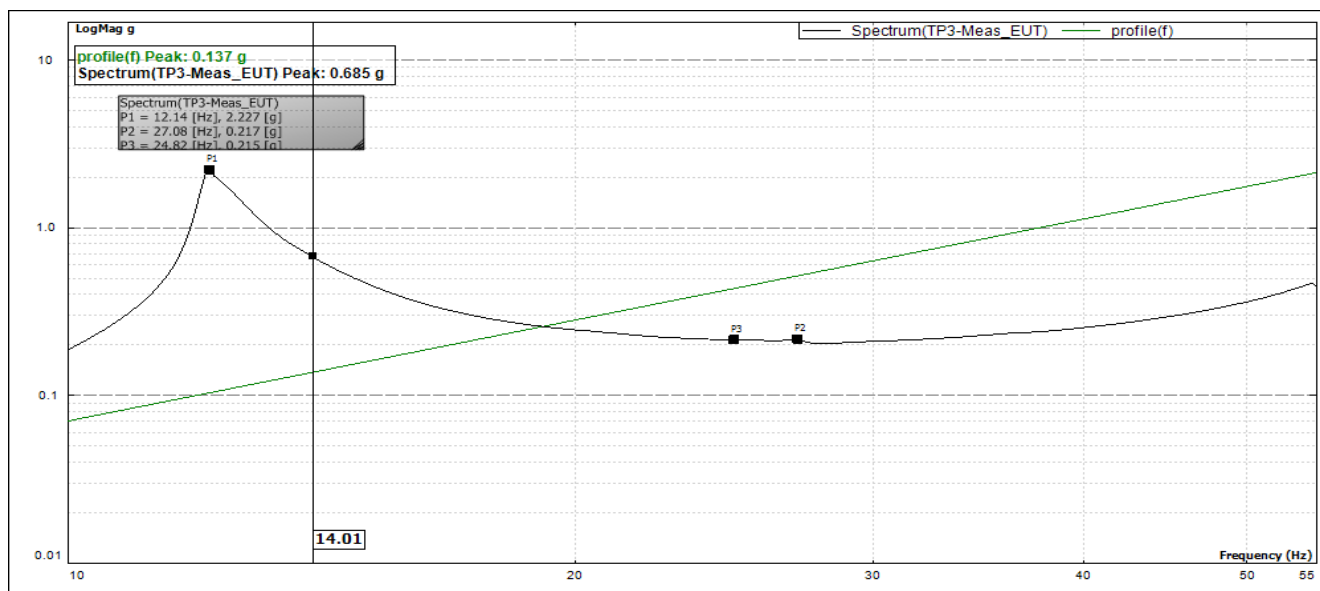


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(Spectrum(TP3-Meas_EUT),profile(f))



Level: 0.0 dB Control Pk: 0.139 g Remaining: 00:00:00
 Full level elapsed: 00:30:00 Control Strategy: Single Channel Sweeping Rate: 1 Oct/Min
 Sweep Number: 13 Current Frequency: 14.01 Hz Signal Plot Points: 256
 Sweep Type: Logarithmic Run Start Time: Feb-02-2022, 12:43:42

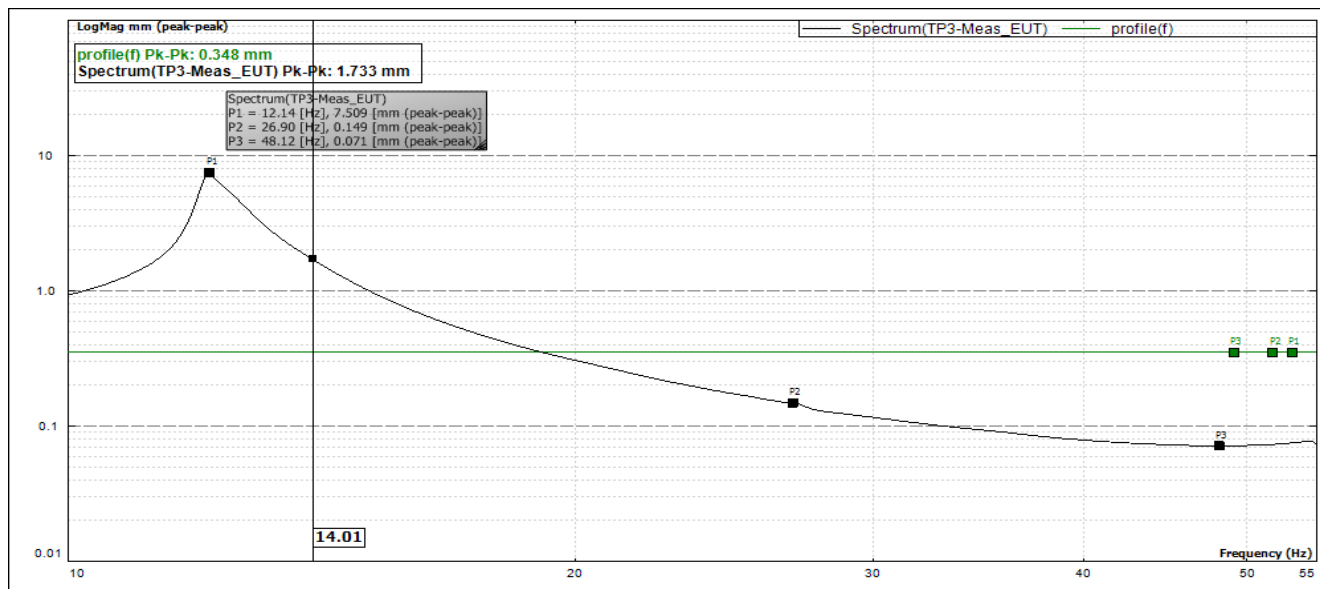


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(Spectrum(TP3-Meas_EUT),profile(f))



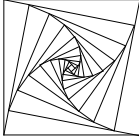
Level: 0.0 dB Control Pk: 0.139 g Remaining: 00:00:00
 Full level elapsed: 00:30:00 Control Strategy: Single Channel Sweeping Rate: 1 Oct/Min
 Sweep Number: 13 Current Frequency: 14.01 Hz Signal Plot Points: 256
 Sweep Type: Logarithmic Run Start Time: Feb-02-2022, 12:43:42



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Document: VR2182003NELA.doc	Issue: 0	Page. 19 of 23

ANNEX 2

EUT LANG

S/N : LANG 32+32

AXIS : Y

SINE VIBRATION TEST

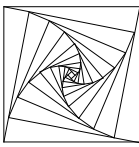
(3 PLOTS)



LAB 1439 L

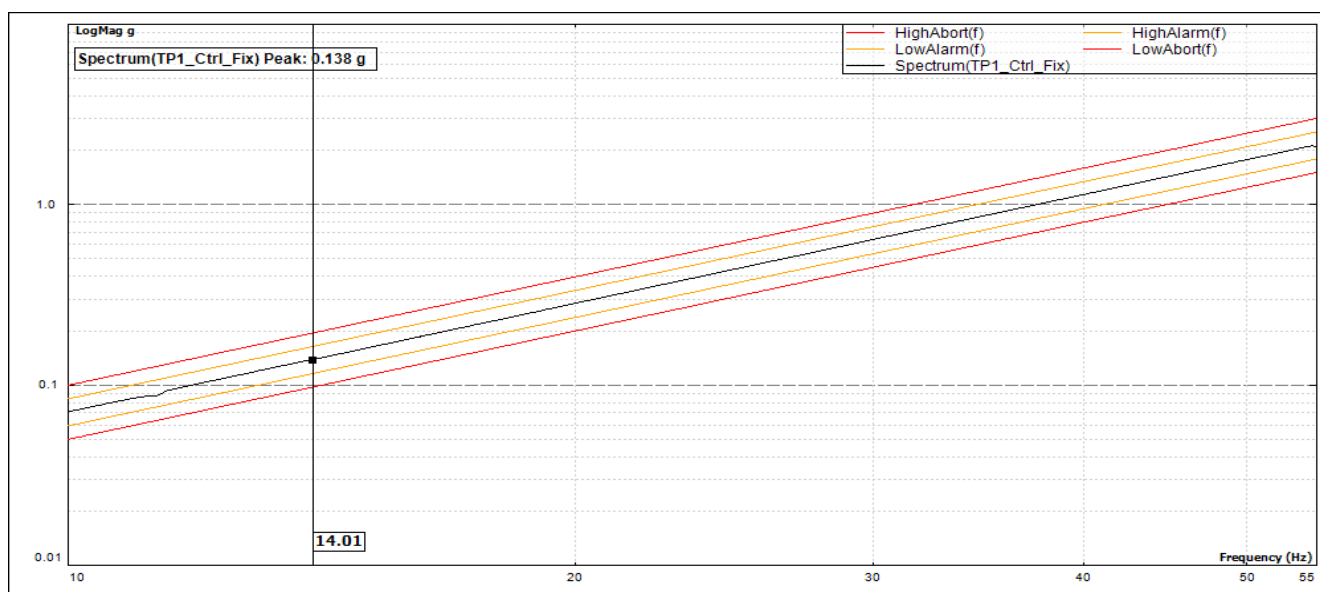
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Document: VR2182003NELA.doc	Issue: 0	Page. 20 of 23

Report time: Feb-02-2022, 14:27:58 **Data measured at:** Feb-02-2022, 14:27:58
Test name: Sine test **Test type:** VCS (Swept Sine)
Test status: Test Running **Run folder:** RUN 6-SINE Y_EUT PNLANL_1 Feb 02, 2022 13-57-48

Control Composite



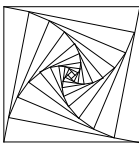
Level: 0.0 dB **Control Pk:** 0.138 g **Remaining:** 00:00:00
Full level elapsed: 00:30:00 **Control Strategy:** Single Channel **Sweeping Rate:** 1 Oct/Min
Sweep Number: 13 **Current Frequency:** 14.01 Hz **Signal Plot Points:** 256
Sweep Type: Logarithmic **Run Start Time:** Feb-02-2022, 13:57:50



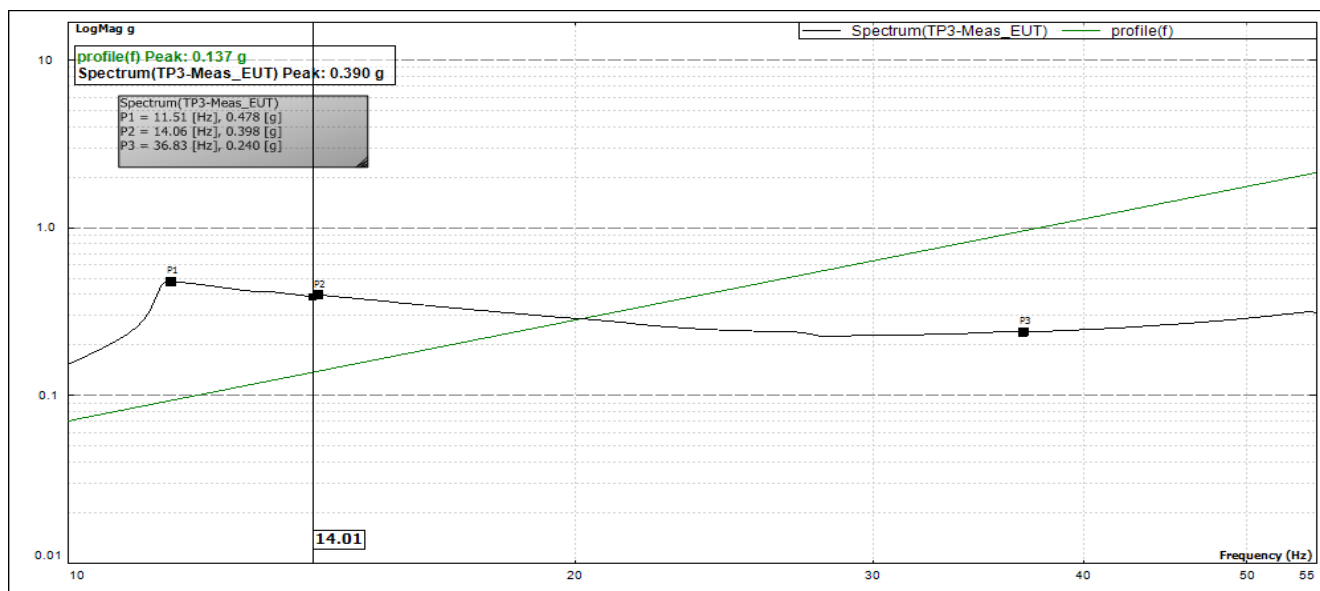
LAB 1439 L

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Document: VR2182003NELA.doc	Issue: 0	Page. 21 of 23

(Spectrum(TP3-Meas_EUT),profile(f))



Level: 0.0 dB Control Pk: 0.138 g Remaining: 00:00:00
Full level elapsed: 00:30:00 Control Strategy: Single Channel Sweeping Rate: 1 Oct/Min
Sweep Number: 13 Current Frequency: 14.01 Hz Signal Plot Points: 256
Sweep Type: Logarithmic Run Start Time: Feb-02-2022, 13:57:50

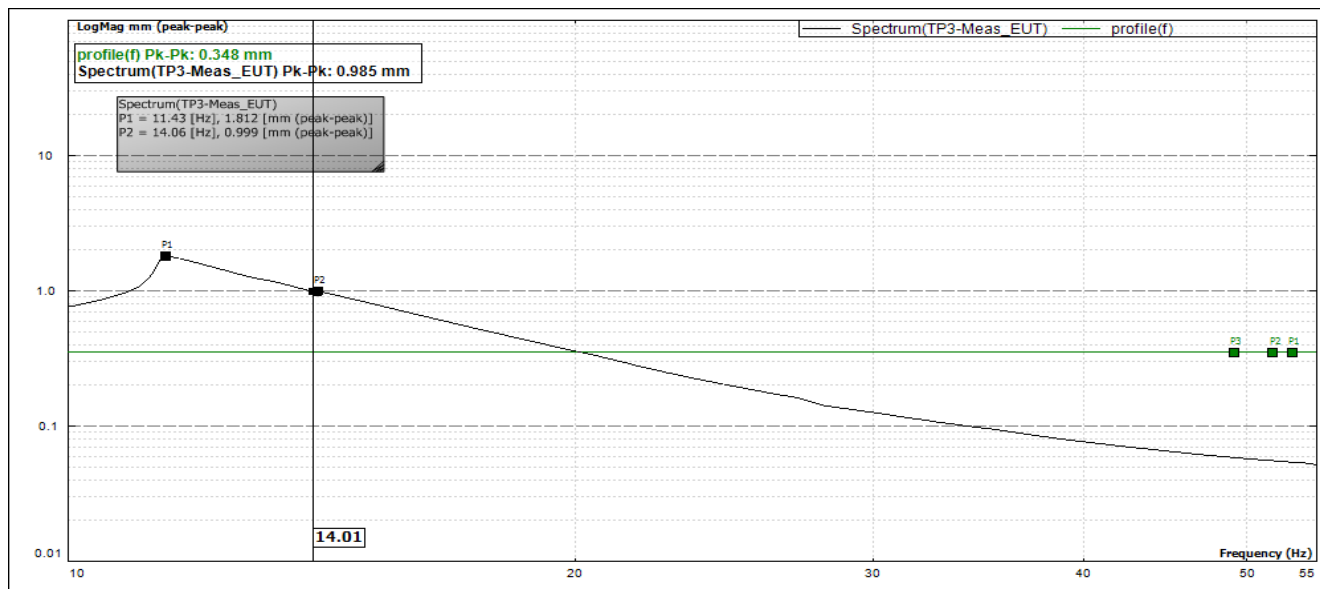


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(Spectrum(TP3-Meas_EUT),profile(f))



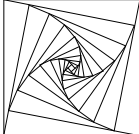
Level: 0.0 dB Control Pk: 0.138 g Remaining: 00:00:00
 Full level elapsed: 00:30:00 Control Strategy: Single Channel Sweeping Rate: 1 Oct/Min
 Sweep Number: 13 Current Frequency: 14.01 Hz Signal Plot Points: 256
 Sweep Type: Logarithmic Run Start Time: Feb-02-2022, 13:57:50



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Document: VR2182003NELA.doc	Issue: 0	Page. 23 of 23

REPORT END



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