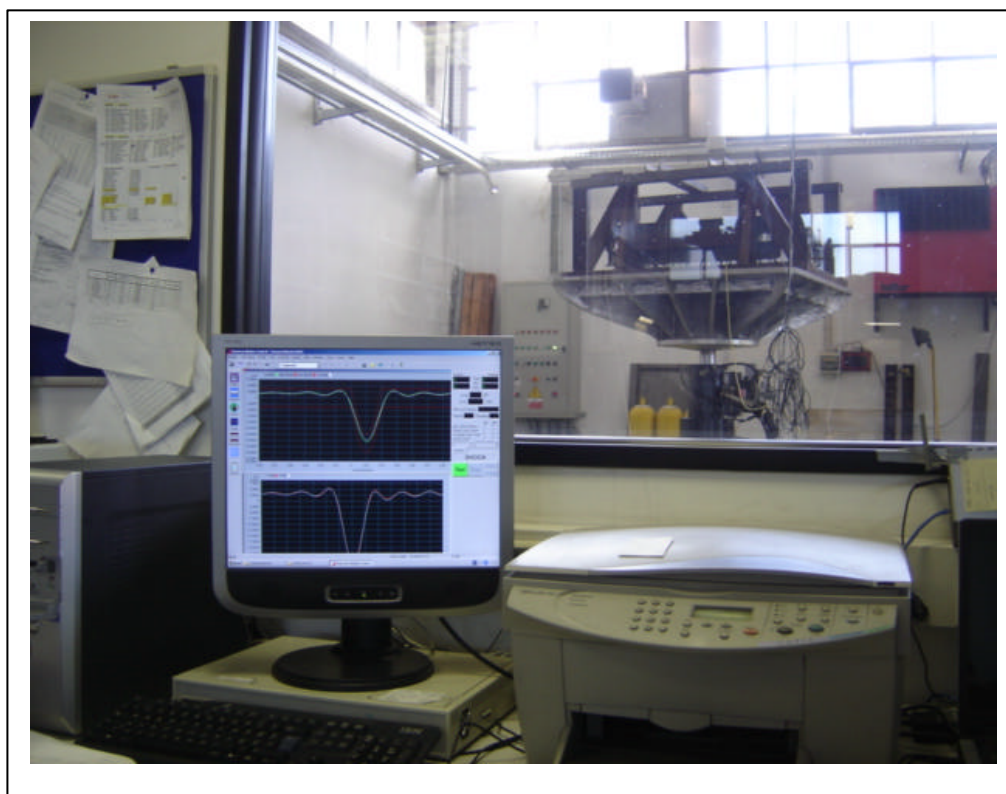


RFK/S 600 15 K - Vibration and shock test report

REV.	DESCRIPTION	DATE	DRAWN	CHECK
0	Emission	22/04/2008	C.Calandroni	P.Valente

Equipment name	:	RFK 600 15K
Customer	:	<i>Fairfield</i>
Final customer	:	-
Type test	:	<i>Vibration and shock test</i>
Test date	:	<i>Apr.17th, 18th, 21th 2008</i>
Weight	:	<i><500 kg</i>
Reference rule	:	<i>IEC61373 Cat. 1 Class B</i>
Serial no.	:	<i>R1,R2,R3,R4,R5,R6,R7,R8,R9,R10 R11,R12,R13,R14,R15,R16,R17,R18,R19,R20</i>
TELEMA order no.	:	<i>CO 080479</i>



1. Introduction

This report refers to the Vibration and Shock test performed with 2 vibrating tables "MOOG" (horizontal and vertical), equipped with a "Laser" Control of the "Dactron" firm, able to test the component in 3 different ways:

A Random mode for testing in random frequency vibrations

A Swept Sine mode

A Classical shock with a half sine shape

The system is composed by 2 vibrating tables having the following dimensions:

Horizontal: 2m x 2m slip table moving on an oil film
Vertical: 1.5m x 1.5m

The vibration system is powered by a hydraulic servo-actuator at a pressure up to 280 bar.

The control is programmed in order to stop the cycle in case an alarm last for a certain period of time.

2. Test sequence

Performance before	Shock	Simulated long life	Performance after
Resistance measurement	Transverse	Transverse	Resistance measurement
	Longitudinal	Longitudinal	Dielectric test
	Vertical	Vertical	

3. Performance Test

Test Type	Before vibrations tests										Results
Cold electrical resistance meas.	R1 15.34 KΩ	R2 15.64 KΩ	R3 15.27 KΩ	R4 15.57 KΩ	R5 15.33 KΩ	R6 15.37 KΩ	R7 15.57 KΩ	R8 15.8 KΩ	R9 15.75 KΩ	R10 15.76 KΩ	passed
	R11 15.51 KΩ	R12 15.44 KΩ	R13 15.64 KΩ	R14 15.45 KΩ	R15 15.6 KΩ	R16 15.37 KΩ	R17 15.71 KΩ	R18 15.6 KΩ	R19 15.3 KΩ	R20 15.8 KΩ	passed
Dielectric strength test	NOT PERFORMED										

Test Type	After vibrations tests										Results
Cold electrical resistance meas.	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	passed
	15.34 KΩ	15.64 KΩ	15.27 KΩ	15.57 KΩ	15.33 KΩ	15.37 KΩ	15.57 KΩ	15.8 KΩ	15.75 KΩ	15.76 KΩ	
	R11	R12	R13	R14	R15	R16	R17	R18	R19	R20	Passed
	15.51 KΩ	15.44 KΩ	15.64 KΩ	15.45 KΩ	15.6 KΩ	15.37 KΩ	15.71 KΩ	15.6 KΩ	15.3 KΩ	15.8 KΩ	
Dielectric strength test	5.5 kV 50 Hz for 1 min. Between elements and external case										OK

4. Simulated long life and shock parameters

The test were performed according to the following parameters:

SIMULATED LONG LIFE

<i>Vibration axe</i>	<i>Frequency limits</i> (Hz)	<i>ASD level max</i> (m/s ²) ² /Hz	<i>RMS value</i> (m/s ²)	<i>Endurance</i> (hours)
Longitudinal (train direction)	5-150	0.901	5.5	5
Transverse	5-150	0,366	3.5	5
Vertical	5-150	1.857	7.9	5

SHOCK TESTS

<i>Vibration axe</i>	<i>Pulse type</i>	<i>Accel.</i> (m/s ²)	<i>Pulse width</i> (msec)	<i>Shock no.</i>
Longitudinal (train direction)	Half-sine	50	30	3 Posit.
				3 Negat.
Transverse	Half-sine	30	30	3 Posit.
				3 Negat.
Vertical	Half-sine	30	30	3 Posit.
				3 Negat.

5. Channel parameters

Channel Parameters

Input Channel Parameters

Input	Max. Volts	mv/(m/s ²)	Weighting	Coupling	I.D.	Location	S/N
Ch 1	1.00	10.10	1.00	ICP	TP1	Table	13732
Ch 2	1.00	10.40	1.00	ICP	TP2	Exp.	11162
Ch 5	1.00	10.40	1.00	ICP	TP5	Fix 1	4314
Ch 8	1.00	54	1.00	ICP	TP8	Fix 2	410

Control Channel Parameters

Channel	Vertical Shock	Vertical Long Life	Longitudinal Shock	Longitudinal Long Life	Transverse Shock	Transverse Long Life
Ch 1	disabled	disabled	control	monitor	control	monitor
Ch 2	control	monitor	disabled	disabled	disabled	disabled
Ch 5	monitor	control	monitor	control	monitor	control
Ch 8	monitor	control	monitor	control	monitor	control

6. Instrumentation and components data sheet

Components:	Model	Serial no.	Calibration certificate	Expiring date
Vibrating table	C46371	L101		
Instruments used during vibration:	Model	Serial no.	Calibration certificate	Expiring date
Shaker control system	Dactron	7947432	07/0569	20/11/2009
Accelerometer	Wilcoxon 787A	13732	Telema bt203	18/09/2008
Accelerometer	Wilcoxon 787A	11162	Telema bt217	19/02/2009
Accelerometer	Dytran Instruments	4314	n.4314	07/05/2009
Accelerometer	Dytran Instruments	410	Telema bt220	19/02/2009

7. Axes directions

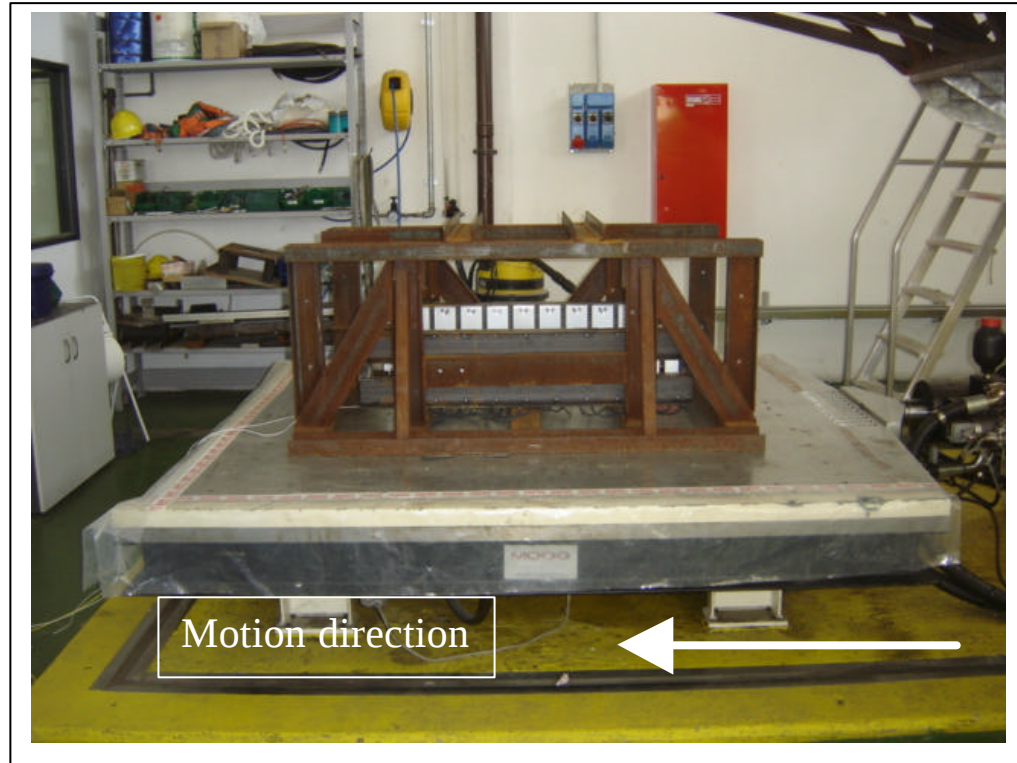


Fig.1
Transverse
test

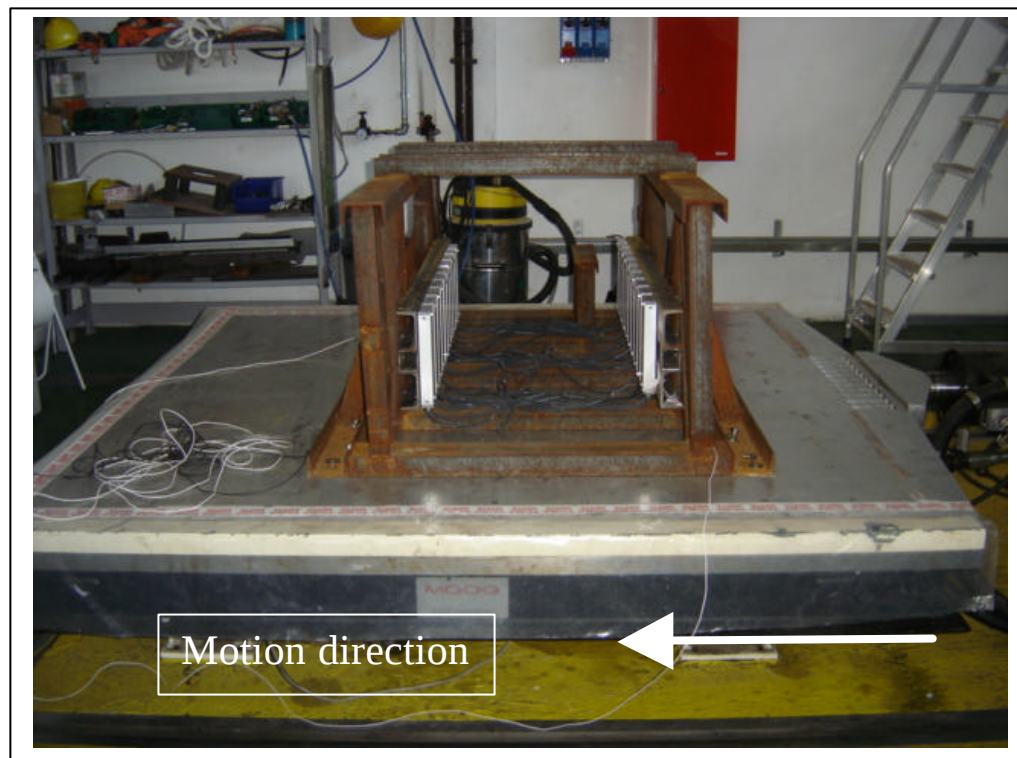


Fig.2
Longitudinal
test



Fig.3
Vertical test

8. Accelerometers positions

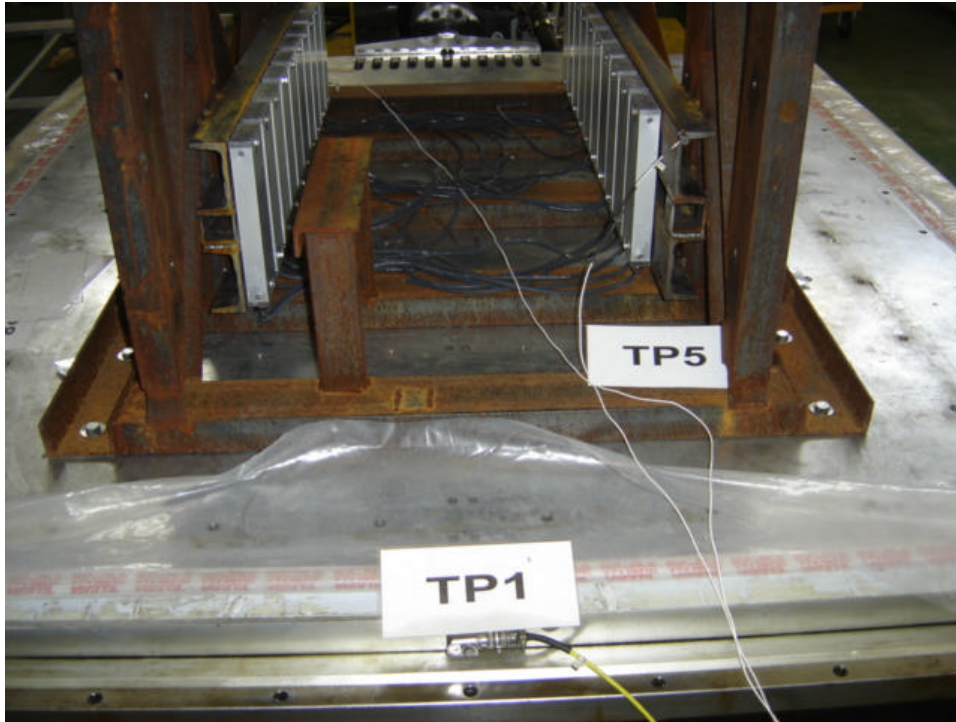


Fig.4
Transverse &
Longitudinal
test ⁽¹⁾

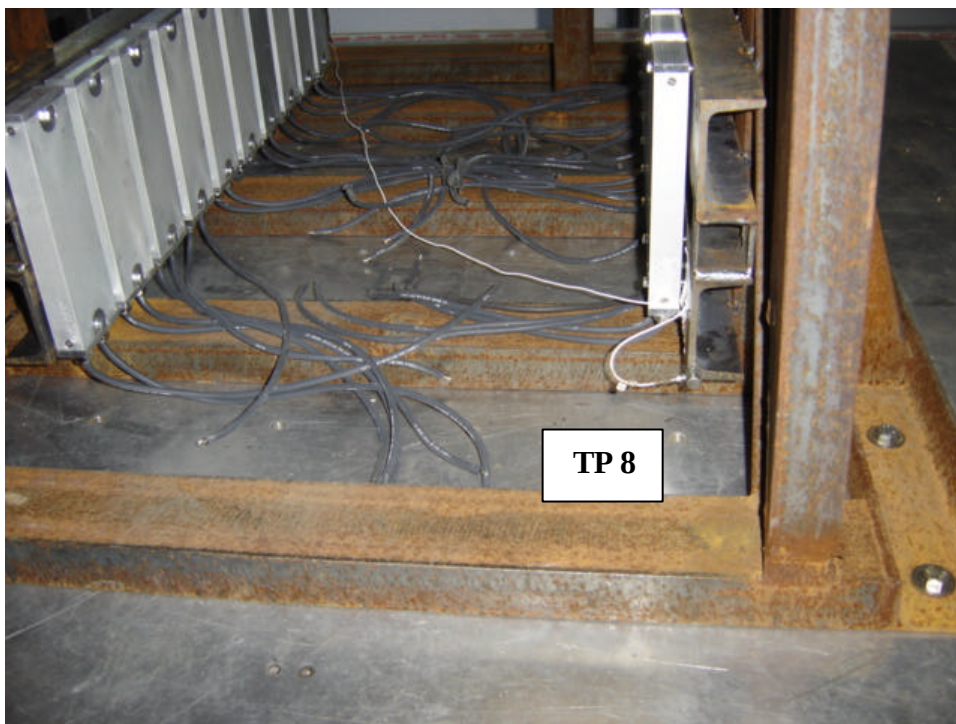


Fig.5
Transverse &
Longitudinal
Test ⁽¹⁾



Fig.5
Vertical
test

¹ The accelerometers was mounted in the same position for all axes

9. Vibration and Shock test result

The test results are reported in the attached plots.

The following reports are included, for each of the axe:

Shock	3 reports for each positive shock
	3 reports for each negative shock
Simulated long life	1 report at the start and 1 report at the end, for each axe

10. Test Sequence

N° RUN	AXE	Test type	Date	Time	Note
		Resistance measurement	17/04/2008		
RUN1	Transverse	Positive and negative shocks	17/04/2008	11:06	
RUN2	Transverse	Random long life	17/04/2008	11:10	
RUN3	Longitudinal	Positive and negative shocks	18/04/2008	12:09	
RUN4	Longitudinal	Random long life	18/04/2008	12:11	
RUN5	Vertical	Positive and negative shocks	21/04/2008	09:04	
RUN6	Vertical	Random long life	21/04/2008	09:06	
		Visual inspection	21/04/2008		
		Resistance measurement	21/04/2008		
		Dielectric test	21/04/2008		

11. Conclusions

Performance tests were carried out prior to commencing the vibration and shock test and on completion of them.
From an accurate visual inspection, no external damage or mechanical tear appeared after the vibration and shock test.
All resistors under test overcome all the vibration and shock test according to the reference rules specified

RFK/S 600 15K - Vibration and shock test report

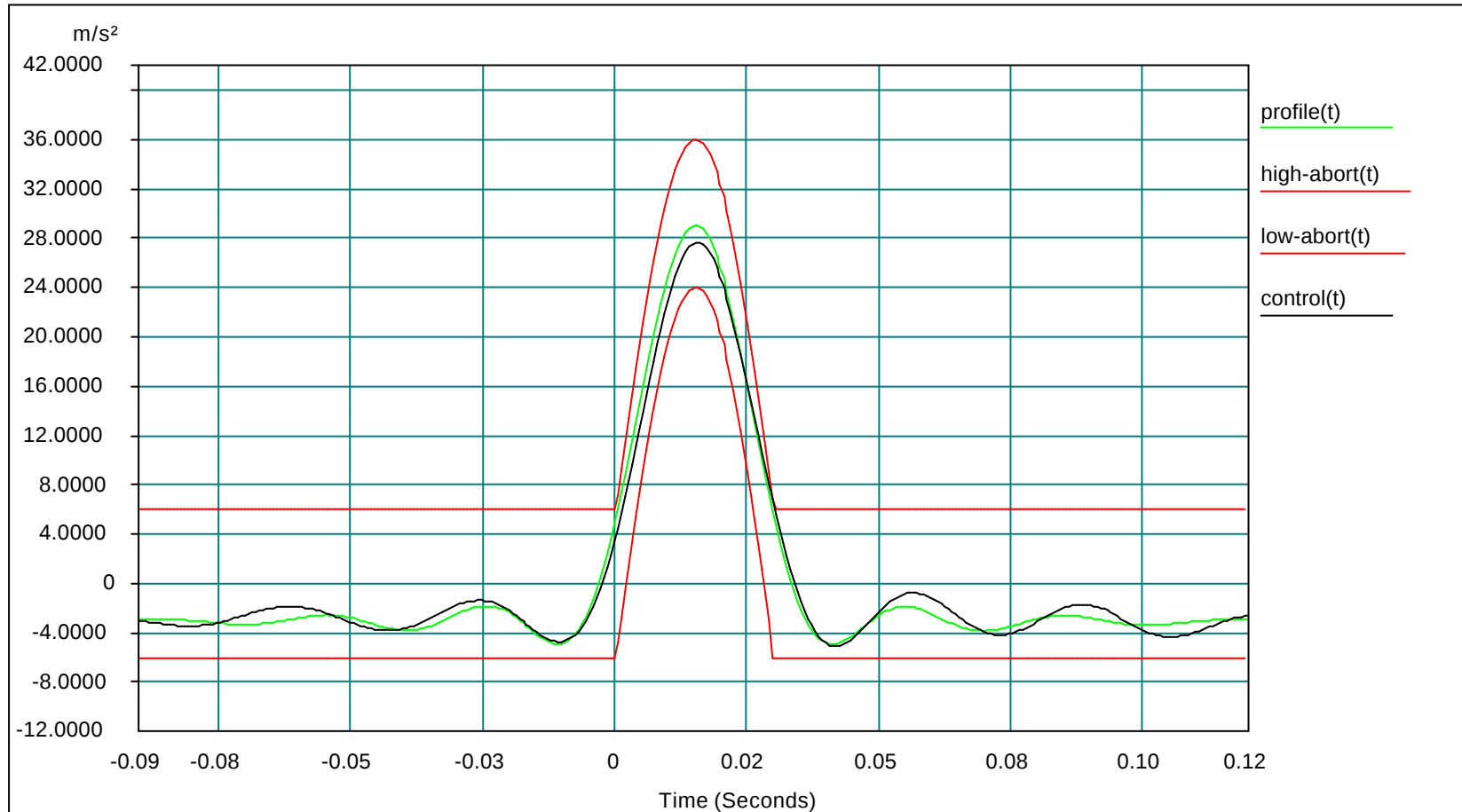
RUN 1 Fairfield TRANSVERSE SHOCK Apr 17,2008 11-07-12

Project File Name: RUN1.prj

Profile Name: 30m/s² 30mSec

Test Type: Classical Shock

Run Folder: .\vib Apr 17,2008 11-06-23



Level:	100 %	Block Size:	2048	Elapsed Pulses:	9
Frame Time:	1.365333 Seconds	Control Peak:	27.688278 m/s ²	Control RMS:	3.417691 m/s ²
dT:	0.000667 Seconds	Demand Peak:	29.018564 m/s ²	Demand RMS:	3.563255 m/s ²
Pulse Type:	Half Sine	Amplitude:	30.000000 m/s ²	Full Level Elapsed Pulses:	1
				Remaining Pulses:	9

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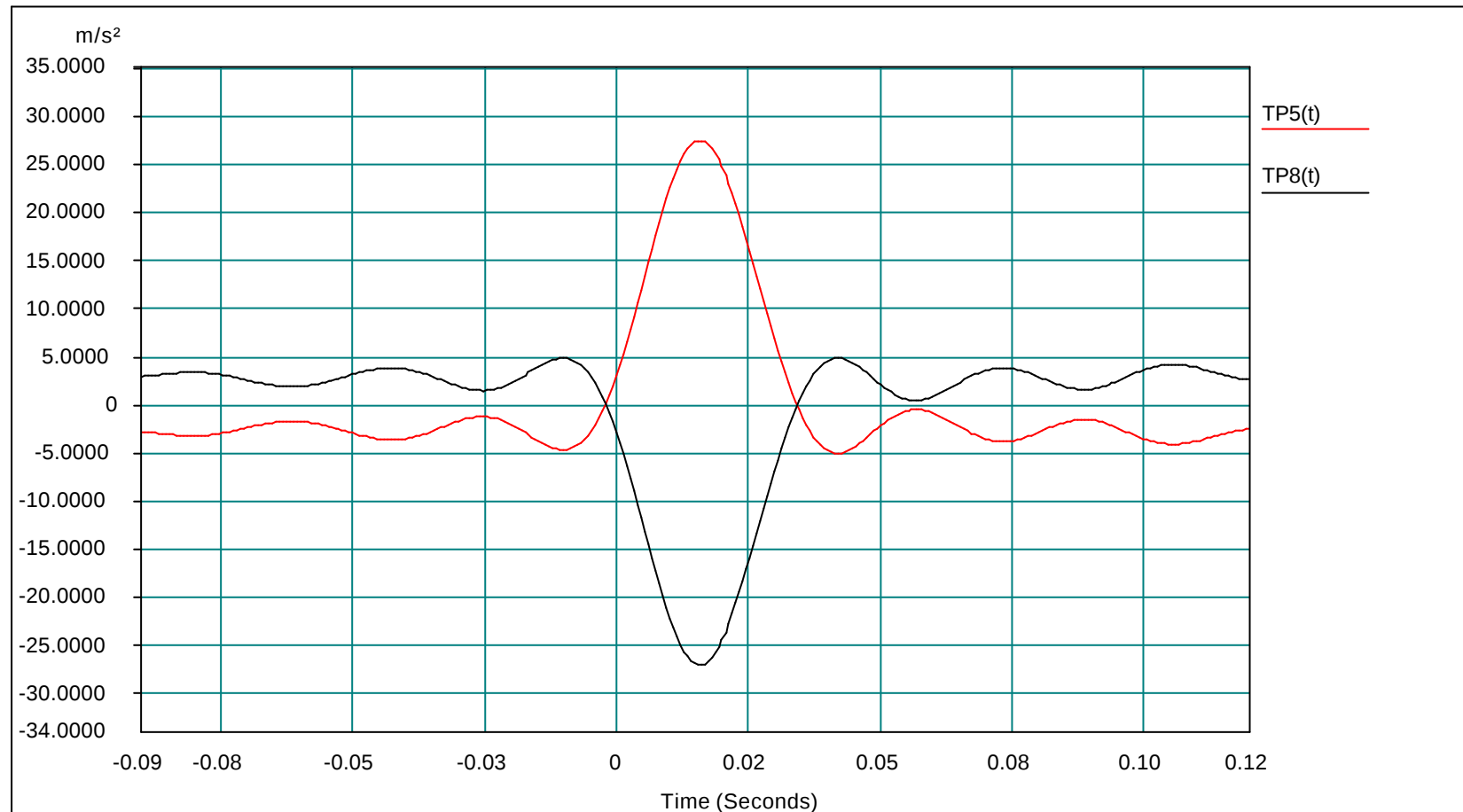
RUN 1 Fairfield TRANSVERSE SHOCK Apr 17,2008 11-07-12

Project File Name: RUN1.prj

Profile Name: 30m/s² 30mSec

Test Type: Classical Shock

Run Folder: .\vib Apr 17,2008 11-06-23



Level:	100 %	Block Size:	2048	Elapsed Pulses:	9
Frame Time:	1.365333 Seconds	Control Peak:	27.688278 m/s ²	Control RMS:	3.417691 m/s ²
dT:	0.000667 Seconds	Demand Peak:	29.018564 m/s ²	Demand RMS:	3.563255 m/s ²
Pulse Type:	Half Sine	Amplitude:	30.000000 m/s ²	Full Level Elapsed Pulses:	1
				Remaining Pulses:	9

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RfK/S 600 15K - Vibration and shock test report

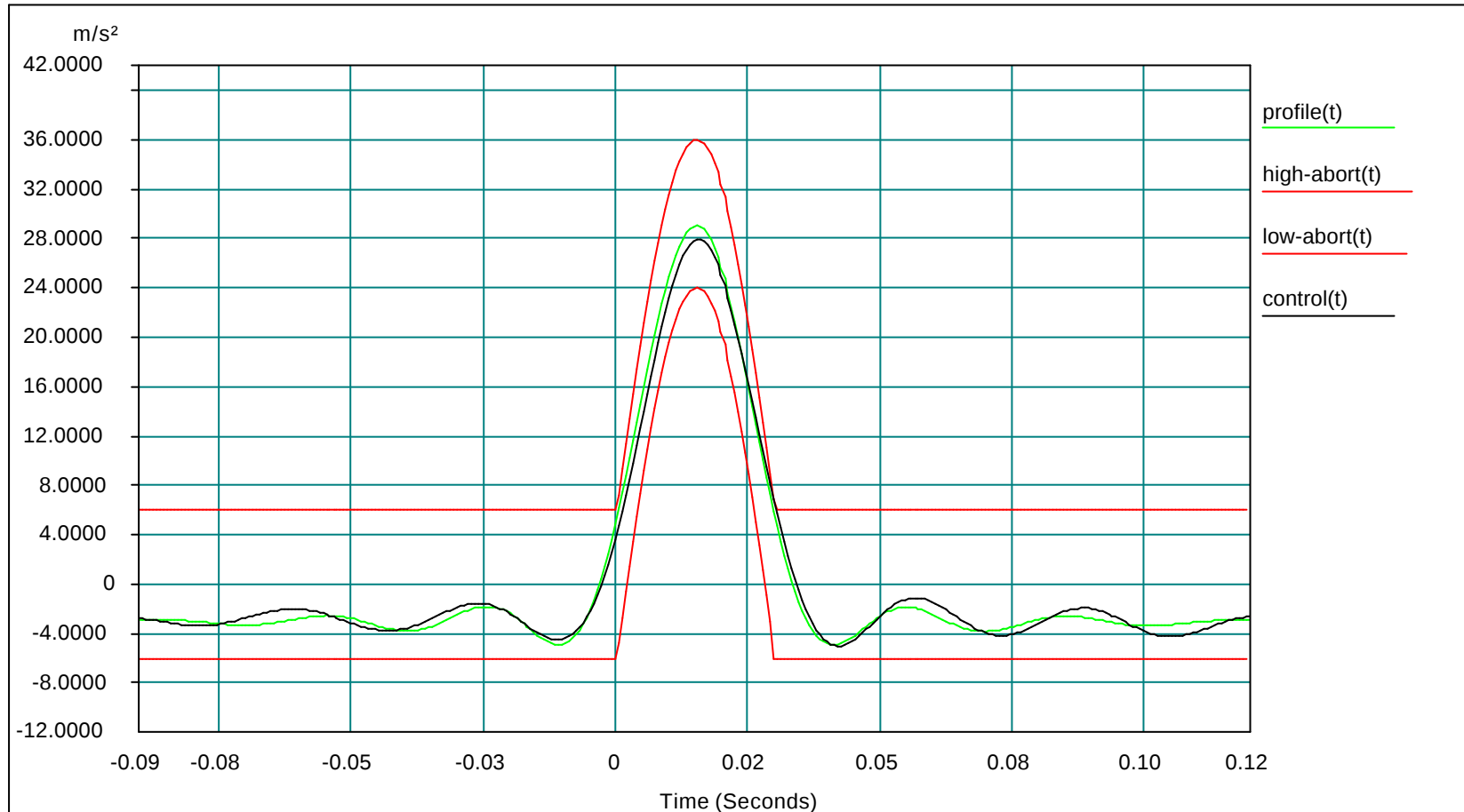
RUN 1 Fairfield TRANSVERSE SHOCK Apr 17,2008 11-07-17

Project File Name: RUN1.prj

Profile Name: 30m/s² 30mSec

Test Type: Classical Shock

Run Folder: .\vib Apr 17,2008 11-06-23



Level:	100 %	Block Size:	2048	Elapsed Pulses:	10
Frame Time:	1.365333 Seconds	Control Peak:	27.915466 m/s ²	Control RMS:	3.440396 m/s ²
dT:	0.000667 Seconds	Demand Peak:	29.018564 m/s ²	Demand RMS:	3.563255 m/s ²
Pulse Type:	Half Sine	Amplitude:	30.000000 m/s ²	Full Level Elapsed Pulses:	2
				Remaining Pulses:	8

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RfK/S 600 15K - Vibration and shock test report

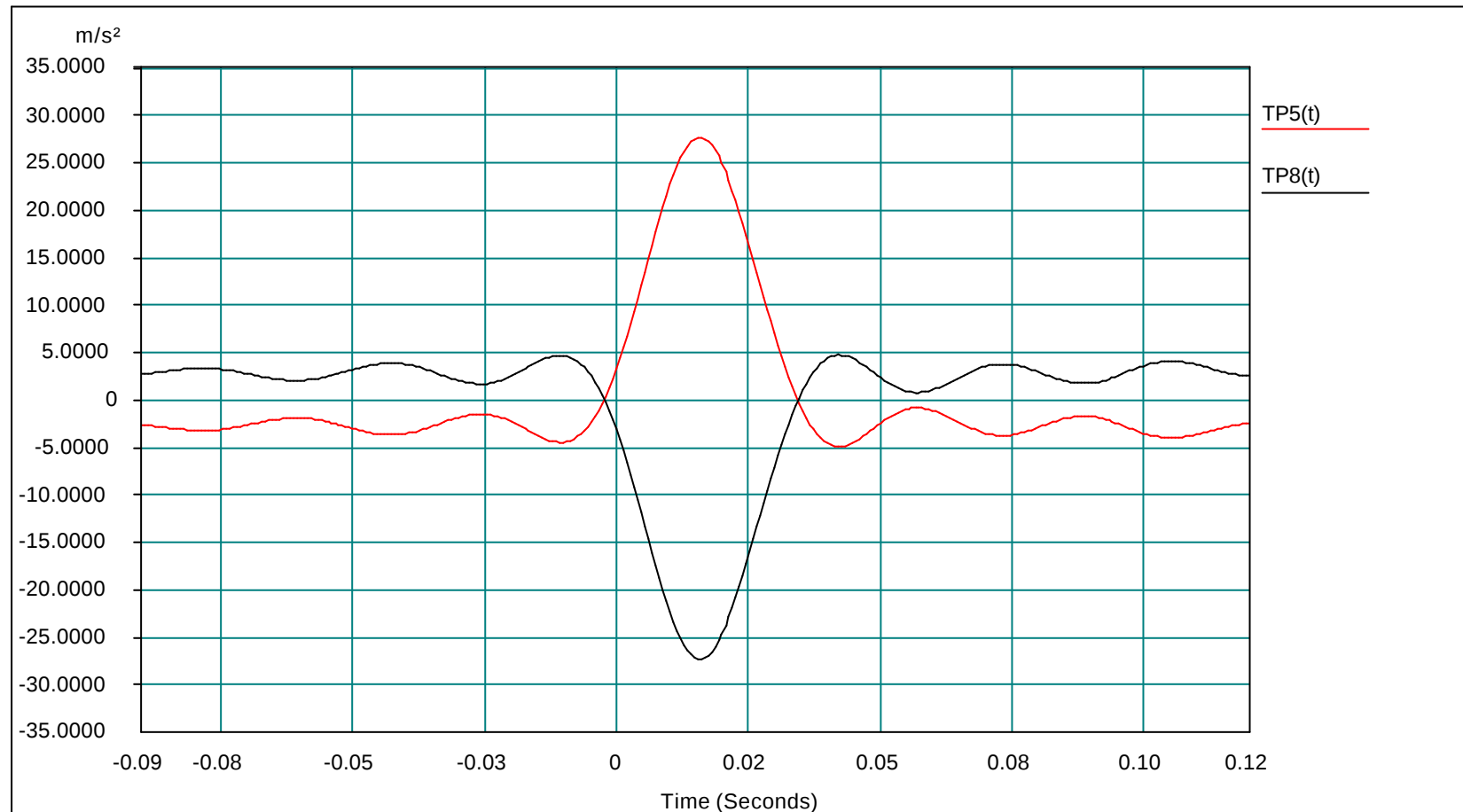
RUN 1 Fairfield TRANSVERSE SHOCK Apr 17,2008 11-07-17

Project File Name: RUN1.prj

Profile Name: 30m/s² 30mSec

Test Type: Classical Shock

Run Folder: \vib Apr 17,2008 11-06-23



Level:	100 %	Block Size:	2048	Elapsed Pulses:	10
Frame Time:	1.365333 Seconds	Control Peak:	27.915466 m/s ²	Control RMS:	3.440396 m/s ²
dT:	0.000667 Seconds	Demand Peak:	29.018564 m/s ²	Demand RMS:	3.563255 m/s ²
Pulse Type:	Half Sine	Amplitude:	30.000000 m/s ²	Full Level Elapsed Pulses:	2
				Remaining Pulses:	8

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RFK/S 600 15K - Vibration and shock test report

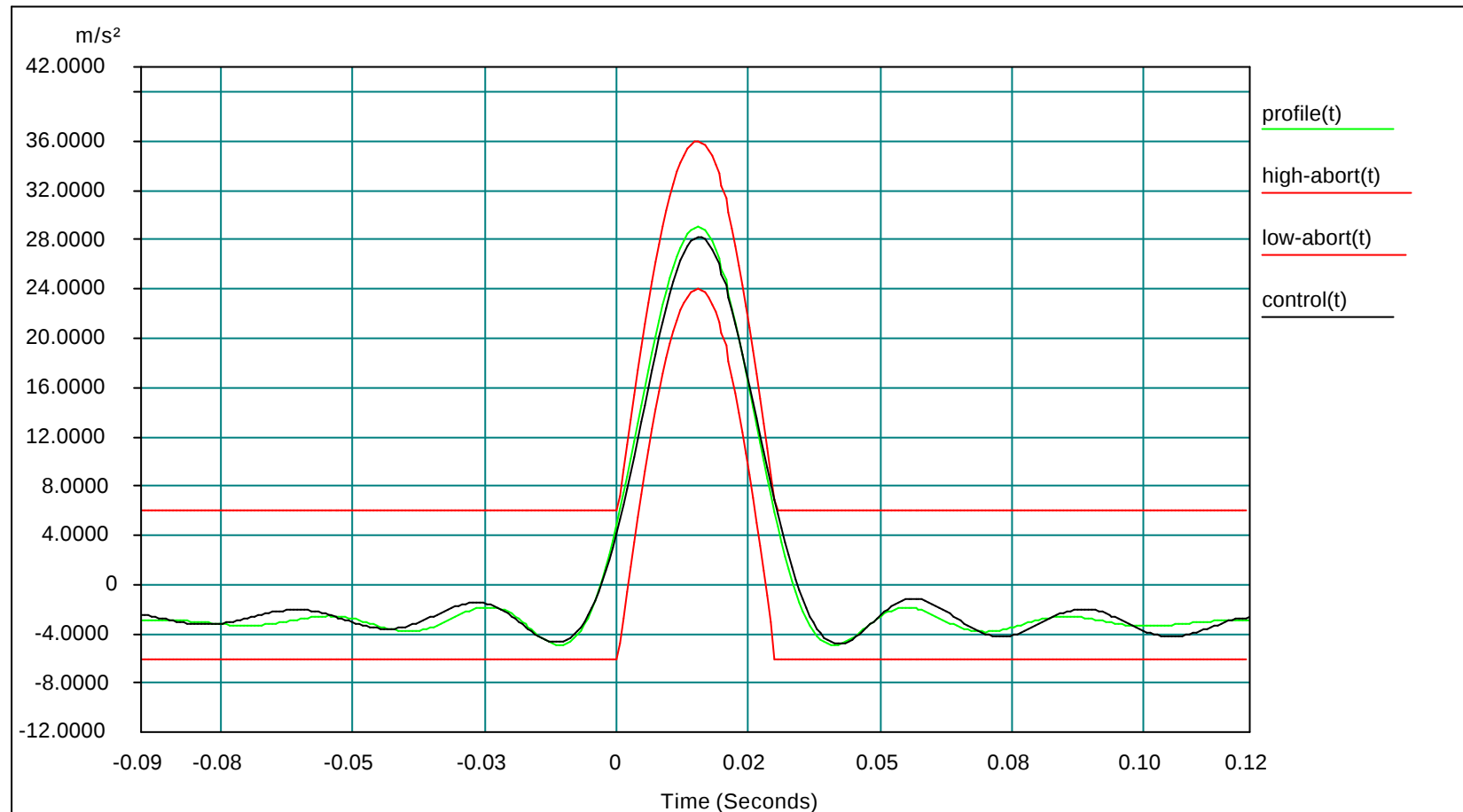
RUN 1 Fairfield TRANSVERSE SHOCK Apr 17,2008 11-07-22

Project File Name: RUN1.prj

Profile Name: 30m/s² 30mSec

Test Type: Classical Shock

Run Folder: .\vib Apr 17,2008 11-06-23



Level:	100 %	Block Size:	2048	Elapsed Pulses:	11	
Frame Time:	1.365333 Seconds	Control Peak:	28.226263 m/s ²	Control RMS:	3.472597 m/s ²	Full Level Elapsed Pulses: 3
dT:	0.000667 Seconds	Demand Peak:	29.018564 m/s ²	Demand RMS:	3.563255 m/s ²	Remaining Pulses: 7
Pulse Type:	Half Sine	Amplitude:	30.000000 m/s ²			

Data saved at 11:07:22 AM, Thursday, April 17, 2008 Report created at 11:07:23 , giovedì, aprile 17, 2008

RFK/S 600 15K - Vibration and shock test report

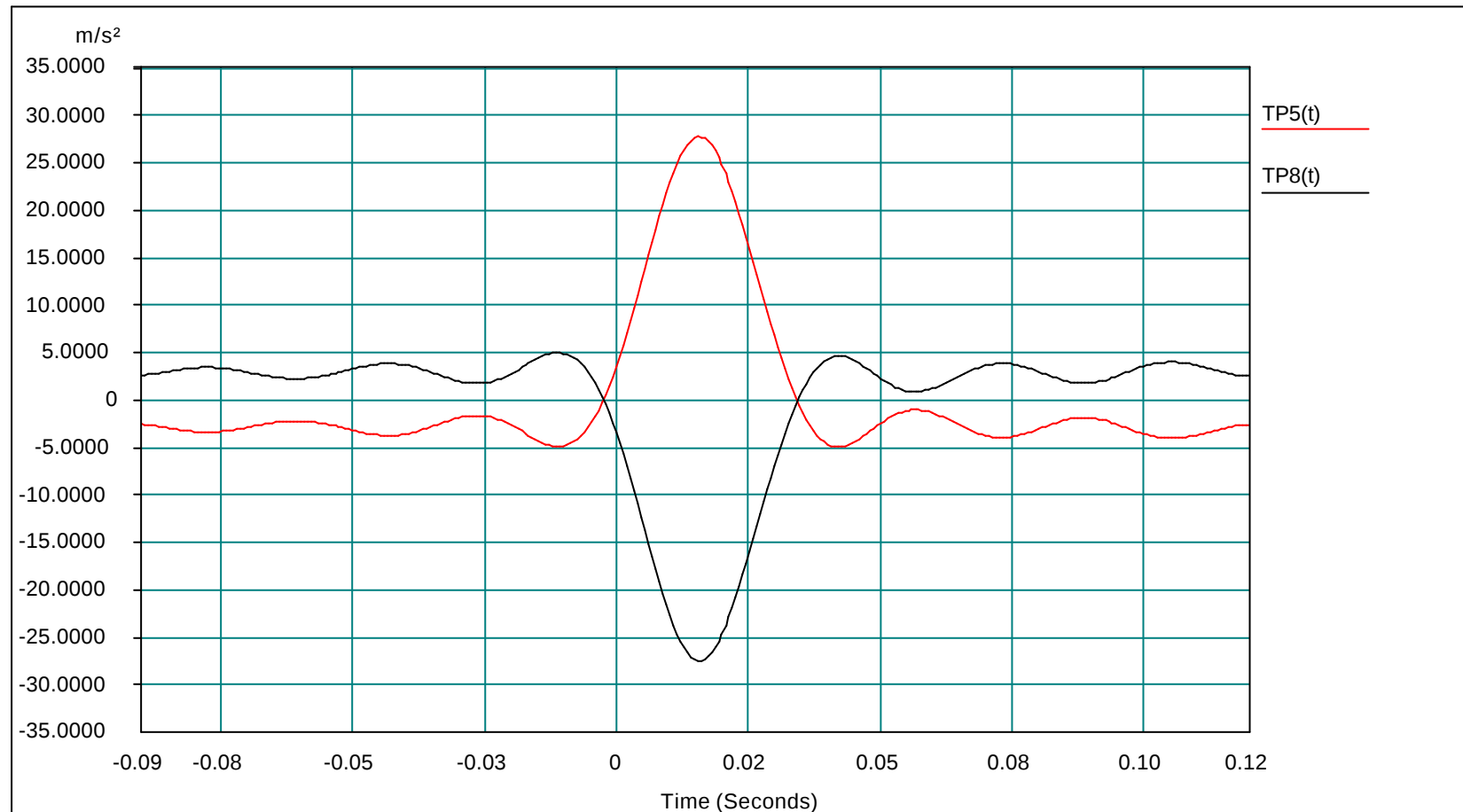
RUN 1 Fairfield TRANSVERSE SHOCK Apr 17,2008 11-07-22

Project File Name: RUN1.prj

Profile Name: 30m/s² 30mSec

Test Type: Classical Shock

Run Folder: .\vib Apr 17,2008 11-06-23



Level:	100 %	Block Size:	2048	Elapsed Pulses:	11
Frame Time:	1.365333 Seconds	Control Peak:	28.226263 m/s ²	Control RMS:	3.472597 m/s ²
dT:	0.000667 Seconds	Demand Peak:	29.018564 m/s ²	Demand RMS:	3.563255 m/s ²
Pulse Type:	Half Sine	Amplitude:	30.000000 m/s ²	Full Level Elapsed Pulses:	3
				Remaining Pulses:	7

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RFK/S 600 15K - Vibration and shock test report

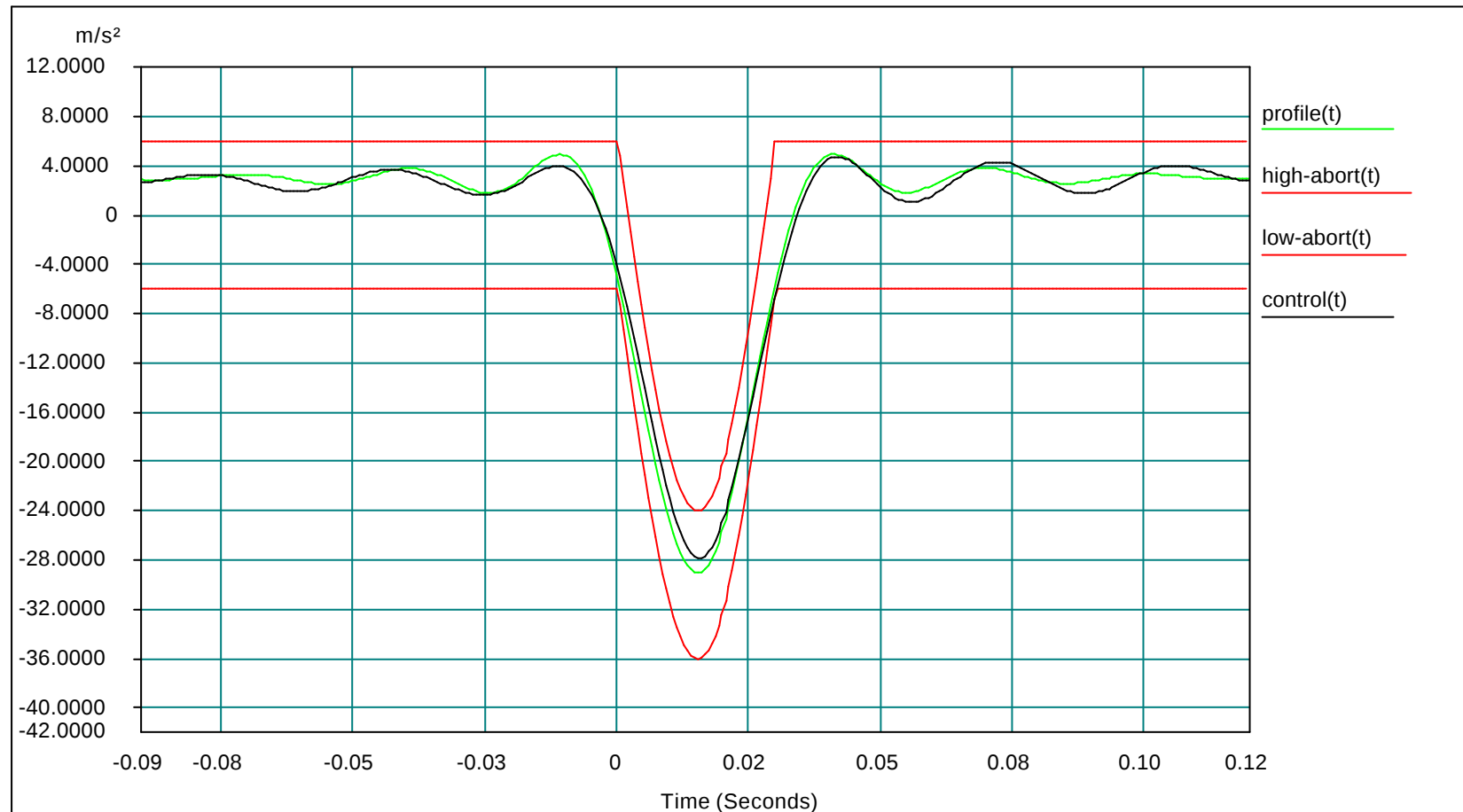
RUN 1 Fairfield TRANSVERSE SHOCK Apr 17,2008 11-07-47

Project File Name: RUN1.prj

Profile Name: 30m/s² 30mSec

Test Type: Classical Shock

Run Folder: \vib Apr 17,2008 11-06-23



Level:	100 %	Block Size:	2048	Elapsed Pulses:	16
Frame Time:	1.365333 Seconds	Control Peak:	27.804533 m/s ²	Control RMS:	3.419932 m/s ²
dT:	0.000667 Seconds	Demand Peak:	29.018564 m/s ²	Demand RMS:	3.563255 m/s ²
Pulse Type:	Half Sine	Amplitude:	30.000000 m/s ²	Full Level Elapsed Pulses:	4
				Remaining Pulses:	2

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RFK/S 600 15K - Vibration and shock test report

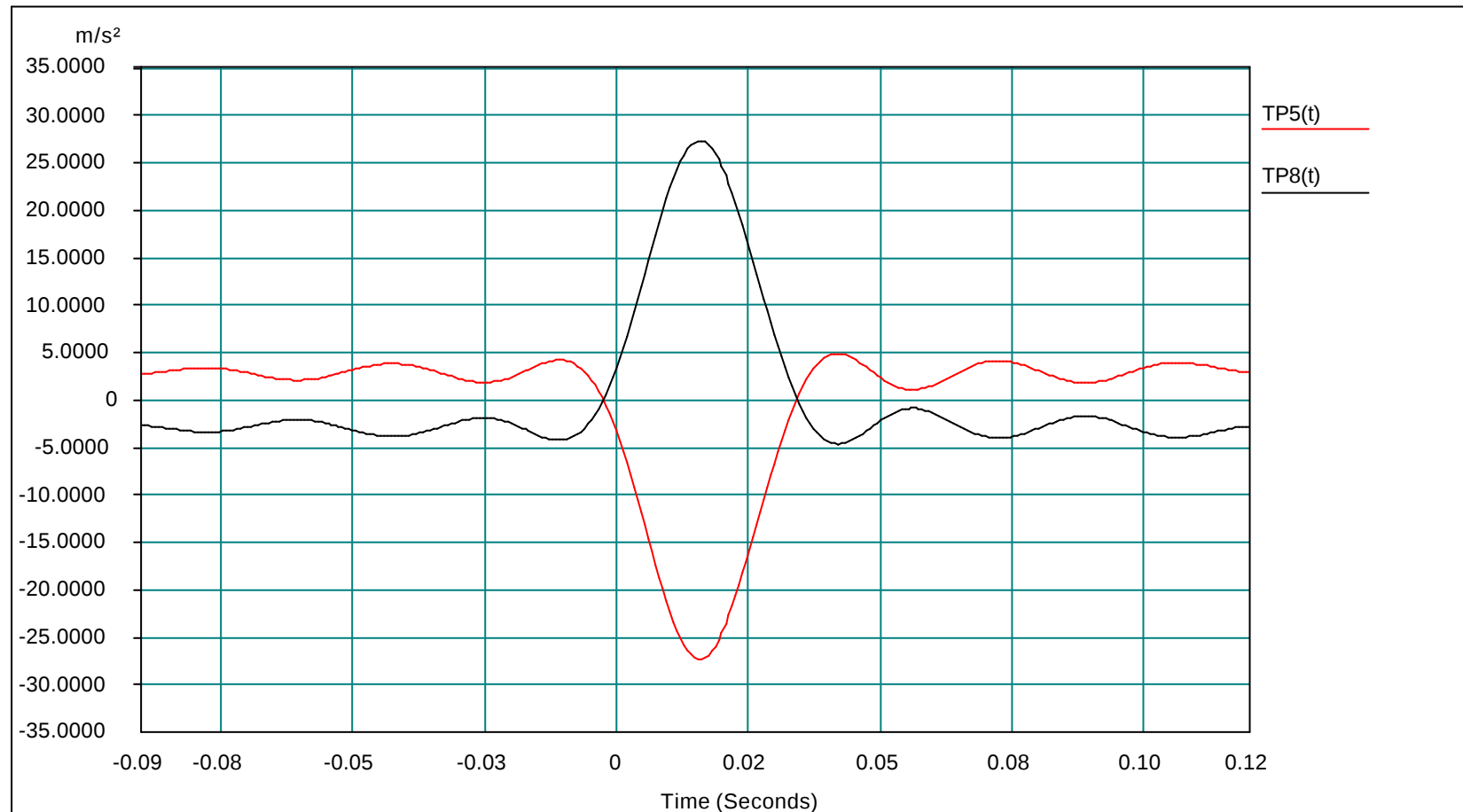
RUN 1 Fairfield TRANSVERSE SHOCK Apr 17,2008 11-07-47

Project File Name: RUN1.prj

Profile Name: 30m/s² 30mSec

Test Type: Classical Shock

Run Folder: .\vib Apr 17,2008 11-06-23



Level:	100 %	Block Size:	2048	Elapsed Pulses:	16
Frame Time:	1.365333 Seconds	Control Peak:	27.804533 m/s ²	Control RMS:	3.419932 m/s ²
dT:	0.000667 Seconds	Demand Peak:	29.018564 m/s ²	Demand RMS:	3.563255 m/s ²
Pulse Type:	Half Sine	Amplitude:	30.000000 m/s ²	Full Level Elapsed Pulses:	4
				Remaining Pulses:	2

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RFK/S 600 15K - Vibration and shock test report

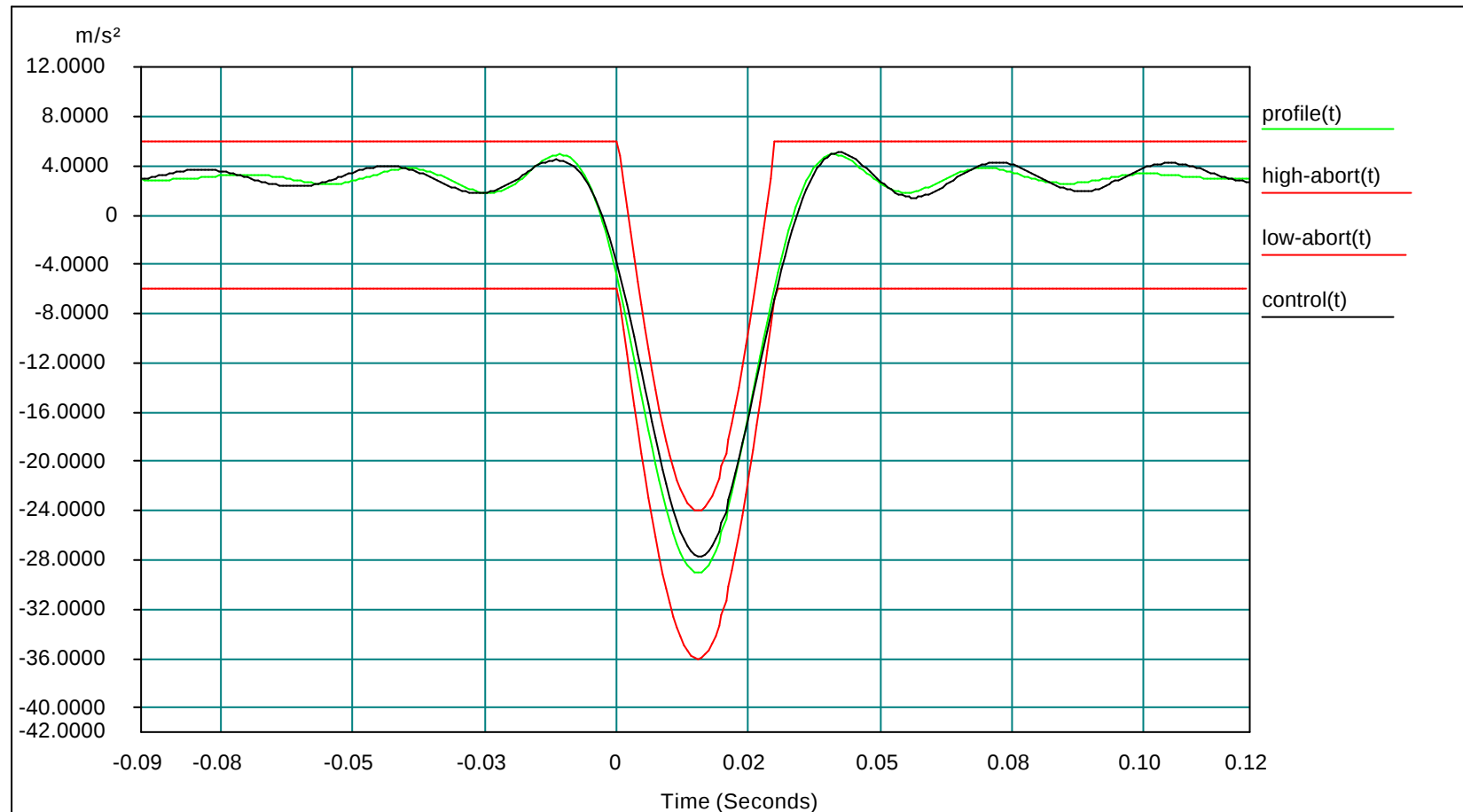
RUN 1 Fairfield TRANSVERSE SHOCK Apr 17,2008 11-07-52

Project File Name: RUN1.prj

Profile Name: 30m/s² 30mSec

Test Type: Classical Shock

Run Folder: .\vib Apr 17,2008 11-06-23



Level:	100 %	Block Size:	2048	Elapsed Pulses:	17
Frame Time:	1.365333 Seconds	Control Peak:	27.712135 m/s ²	Control RMS:	3.447830 m/s ²
dT:	0.000667 Seconds	Demand Peak:	29.018564 m/s ²	Demand RMS:	3.563255 m/s ²
Pulse Type:	Half Sine	Amplitude:	30.000000 m/s ²	Full Level Elapsed Pulses:	5
Data saved at 11:07:52 AM, Thursday, April 17, 2008	Report created at 11:07:53 , giovedì, aprile 17, 2008		Remaining Pulses:		1

RFK/S 600 15K - Vibration and shock test report

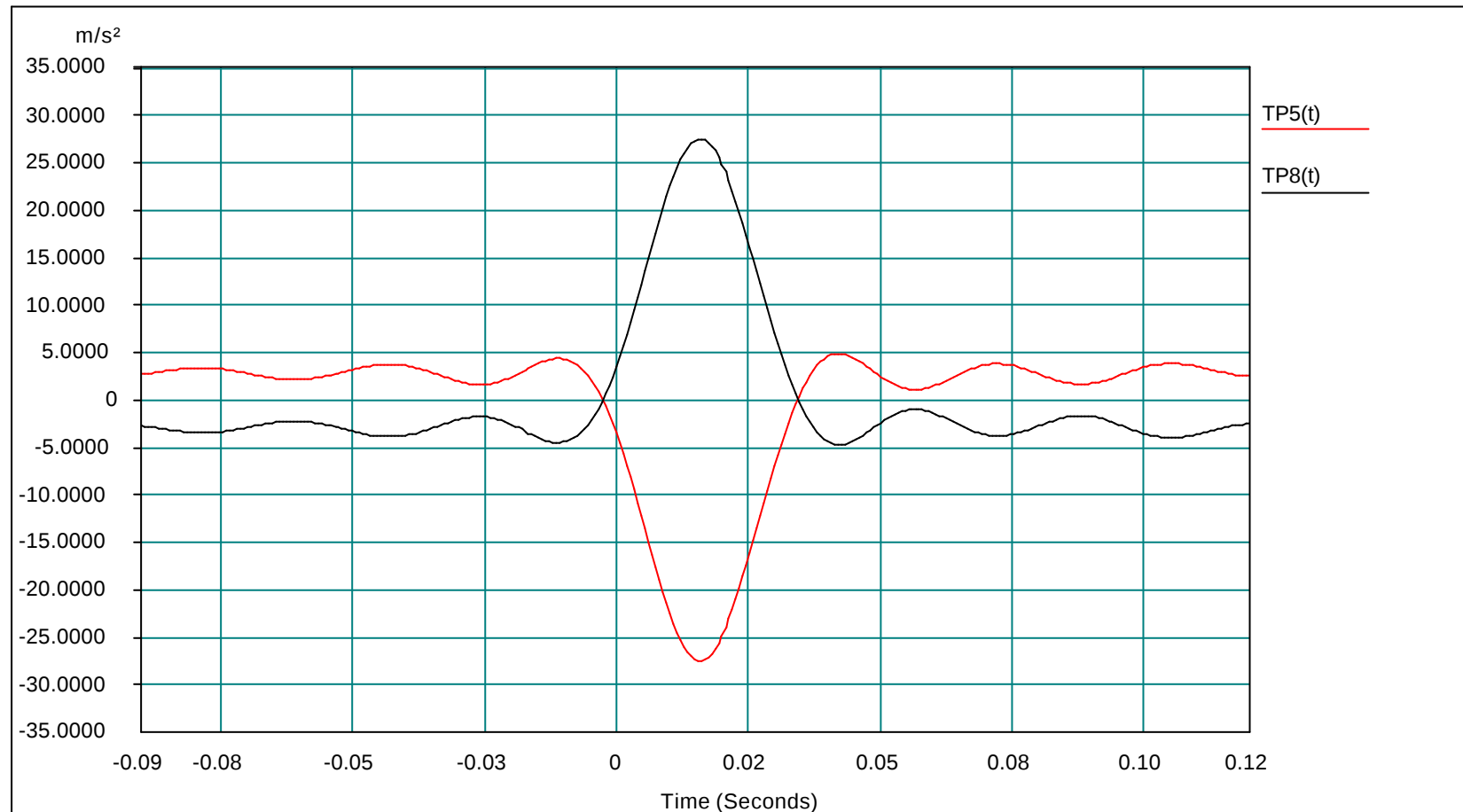
RUN 1 Fairfield TRANSVERSE SHOCK Apr 17,2008 11-07-52

Project File Name: RUN1.prj

Profile Name: 30m/s² 30mSec

Test Type: Classical Shock

Run Folder: .\vib Apr 17,2008 11-06-23



Level:	100 %	Block Size:	2048	Elapsed Pulses:	17
Frame Time:	1.365333 Seconds	Control Peak:	27.712135 m/s ²	Control RMS:	3.447830 m/s ²
dT:	0.000667 Seconds	Demand Peak:	29.018564 m/s ²	Demand RMS:	3.563255 m/s ²
Pulse Type:	Half Sine	Amplitude:	30.000000 m/s ²	Full Level Elapsed Pulses:	5
				Remaining Pulses:	1

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RFK/S 600 15K - Vibration and shock test report

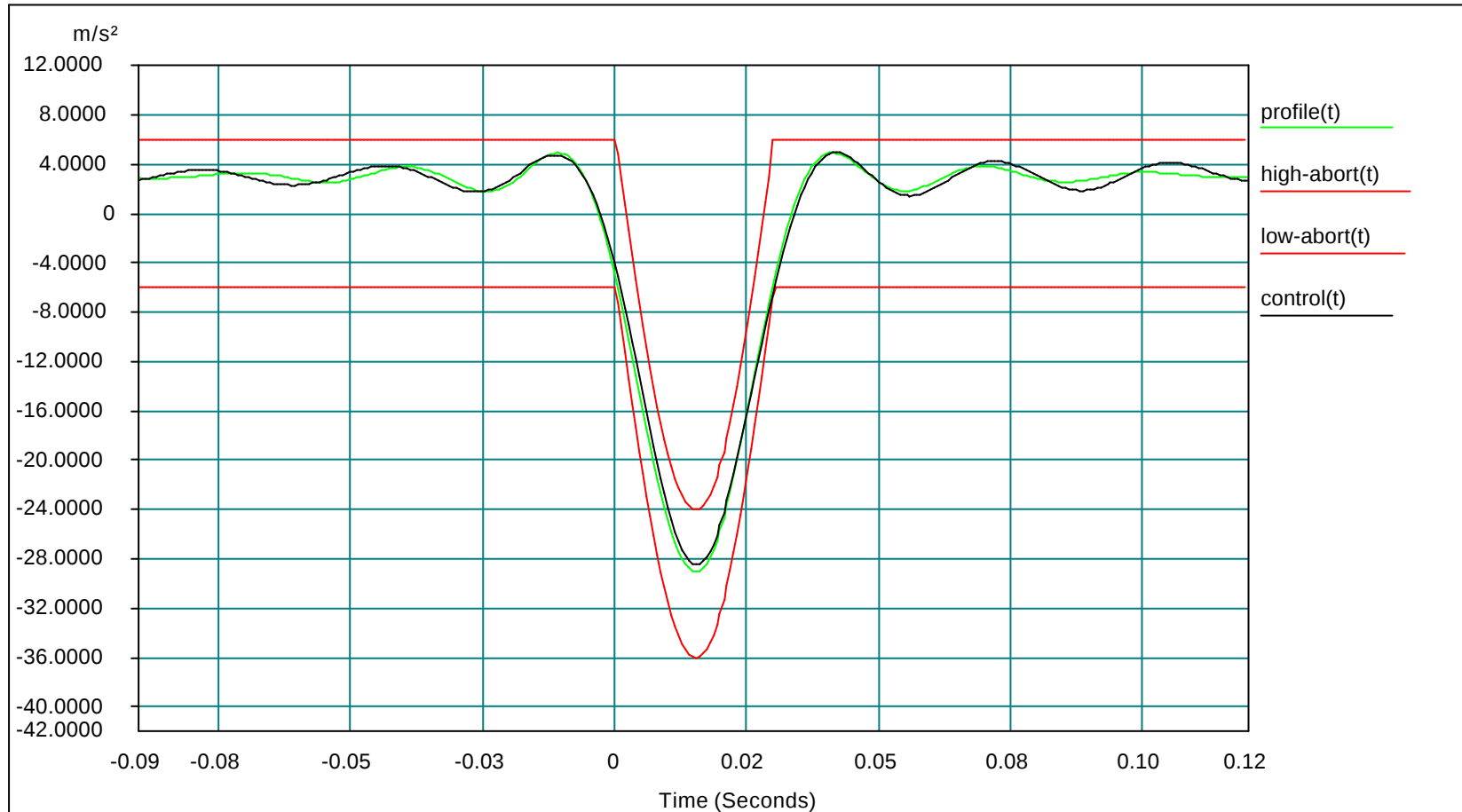
RUN 1 Fairfield TRANSVERSE SHOCK Apr 17,2008 11-07-55

Project File Name: RUN1.prj

Profile Name: 30m/s² 30mSec

Test Type: Classical Shock

Run Folder: \vib Apr 17,2008 11-06-23



Level:	100 %	Block Size:	2048	Elapsed Pulses:	18
Frame Time:	1.365333 Seconds	Control Peak:	28.457323 m/s ²	Control RMS:	3.496057 m/s ²
dT:	0.000667 Seconds	Demand Peak:	29.018564 m/s ²	Demand RMS:	3.563255 m/s ²
Pulse Type:	Half Sine	Amplitude:	30.000000 m/s ²	Full Level Elapsed Pulses:	6
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RFK/S 600 15K - Vibration and shock test report

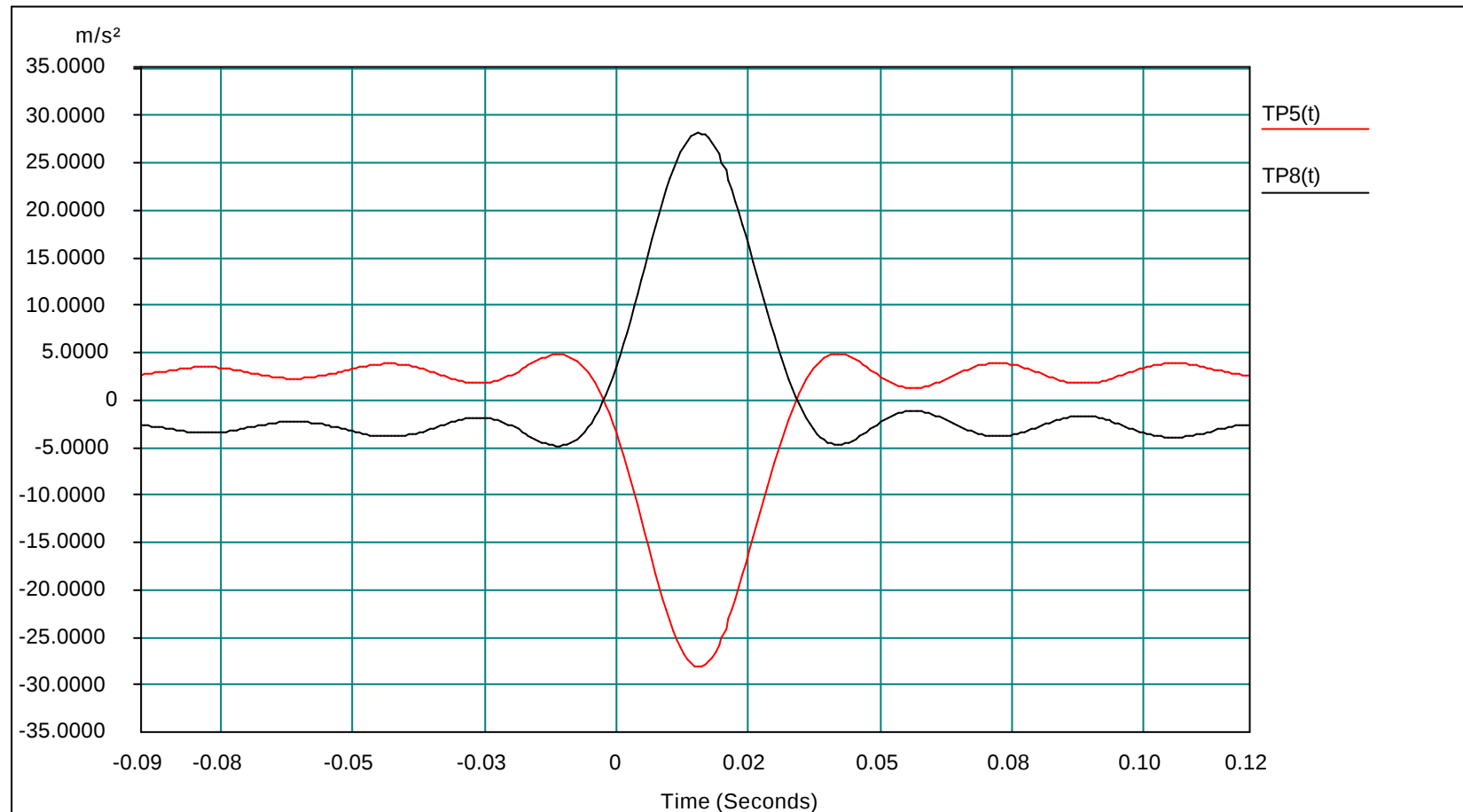
RUN 1 Fairfield TRANSVERSE SHOCK Apr 17,2008 11-07-55

Project File Name: RUN1.prj

Profile Name: 30m/s² 30mSec

Test Type: Classical Shock

Run Folder: .\vib Apr 17,2008 11-06-23



Level:	100 %	Block Size:	2048	Elapsed Pulses:	18
Frame Time:	1.365333 Seconds	Control Peak:	28.457323 m/s ²	Control RMS:	3.496057 m/s ²
dT:	0.000667 Seconds	Demand Peak:	29.018564 m/s ²	Demand RMS:	3.563255 m/s ²
Pulse Type:	Half Sine	Amplitude:	30.000000 m/s ²	Full Level Elapsed Pulses:	6
				Remaining Pulses:	0

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RFK/S 600 15K - Vibration and shock test report

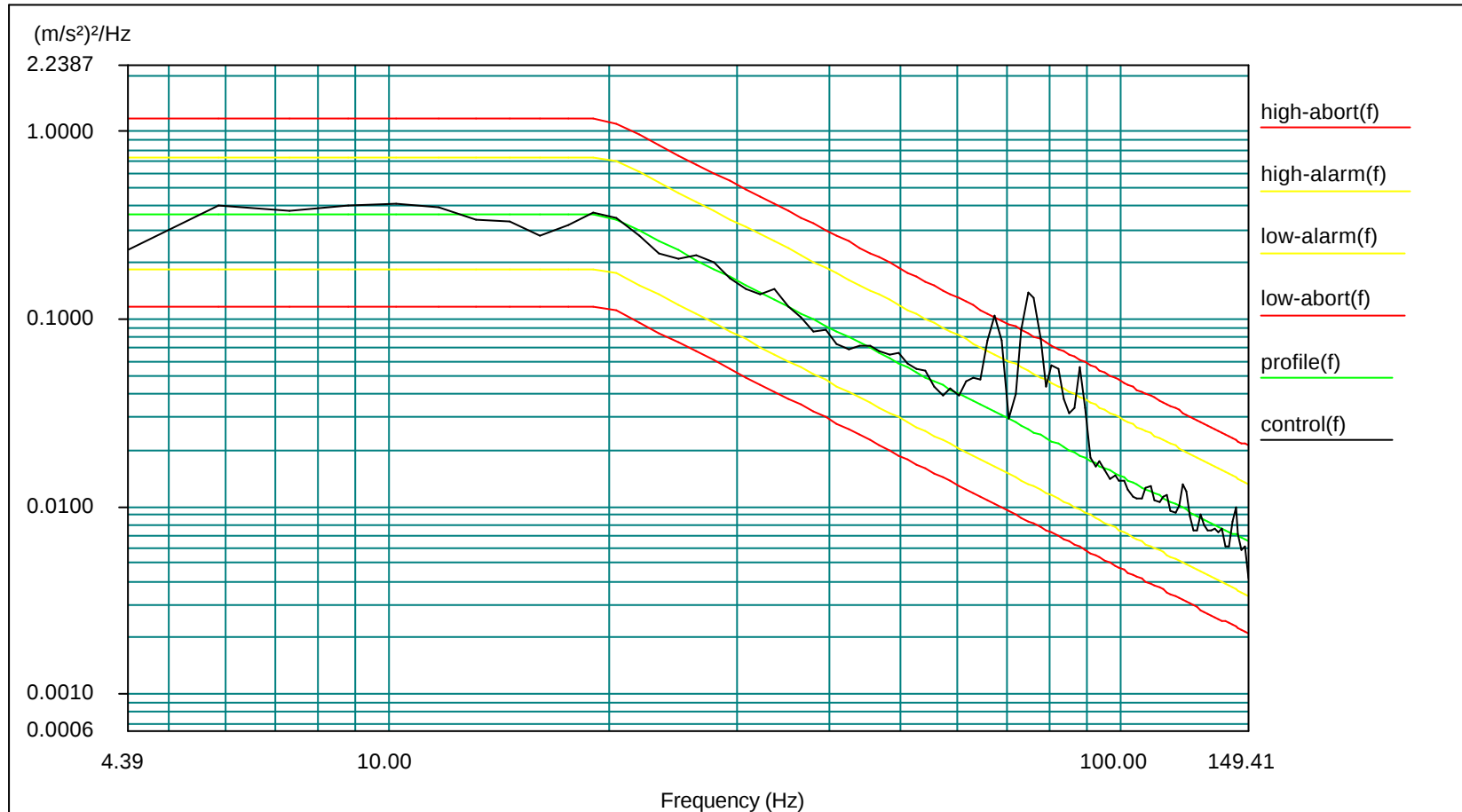
RUN 2 Fairfield TRANSVERSAL LONG LIFE

Project File Name: RUN2.prj

Profile Name: Cat. 1 - Class B < 500 kg

Test Type: Random

Run Folder: .\RunDefault Apr 17,2008 11-10-16



Level: -0.300001 dB

Control RMS: 3.597601 m/s² Full Level Elapsed Time: 00:06:00

Demand RMS: 3.358615 m/s² Remaining Time: 04:53:59

Lines: 100

DOF: 154

Frame Time: 0.682667 Seconds

dF: 1.464844 Hz

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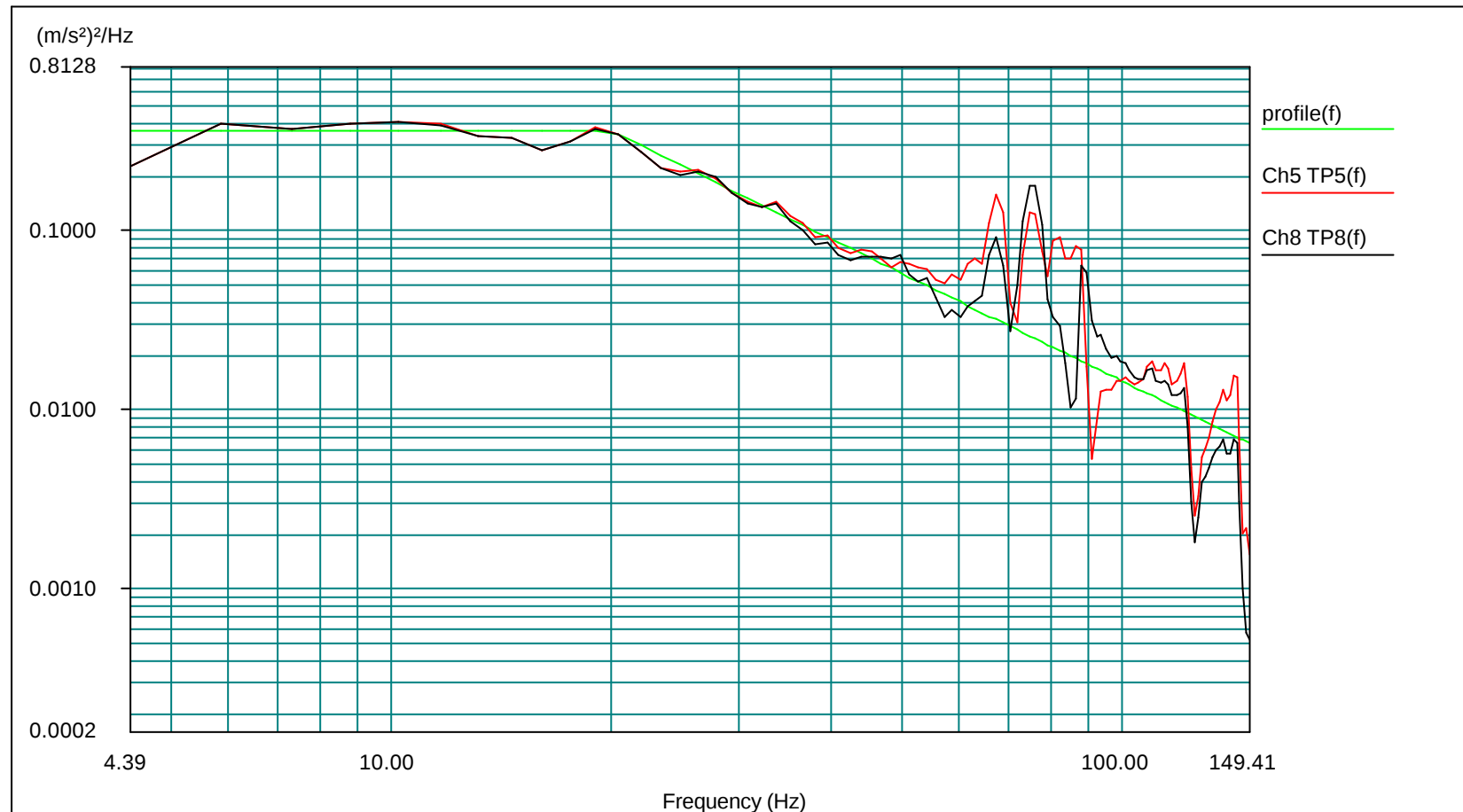
RUN 2 Fairfield TRANSVERSAL LONG LIFE

Project File Name: RUN2.prj

Profile Name: Cat. 1 - Class B < 500 kg

Test Type: Random

Run Folder: .\RunDefault Apr 17,2008 11-10-16



Level: -0.300001 dB

Control RMS: 3.597601 m/s² Full Level Elapsed Time: 00:06:00

Demand RMS: 3.358615 m/s² Remaining Time: 04:53:59

Lines: 100 Frame Time: 0.682667 Seconds

DOF: 154 dF: 1.464844 Hz

Data saved at 11:18:20 AM, Thursday, April 17, 2008 Report created at 11:18:21 , giovedì, aprile 17, 2008

RfK/S 600 15K - Vibration and shock test report

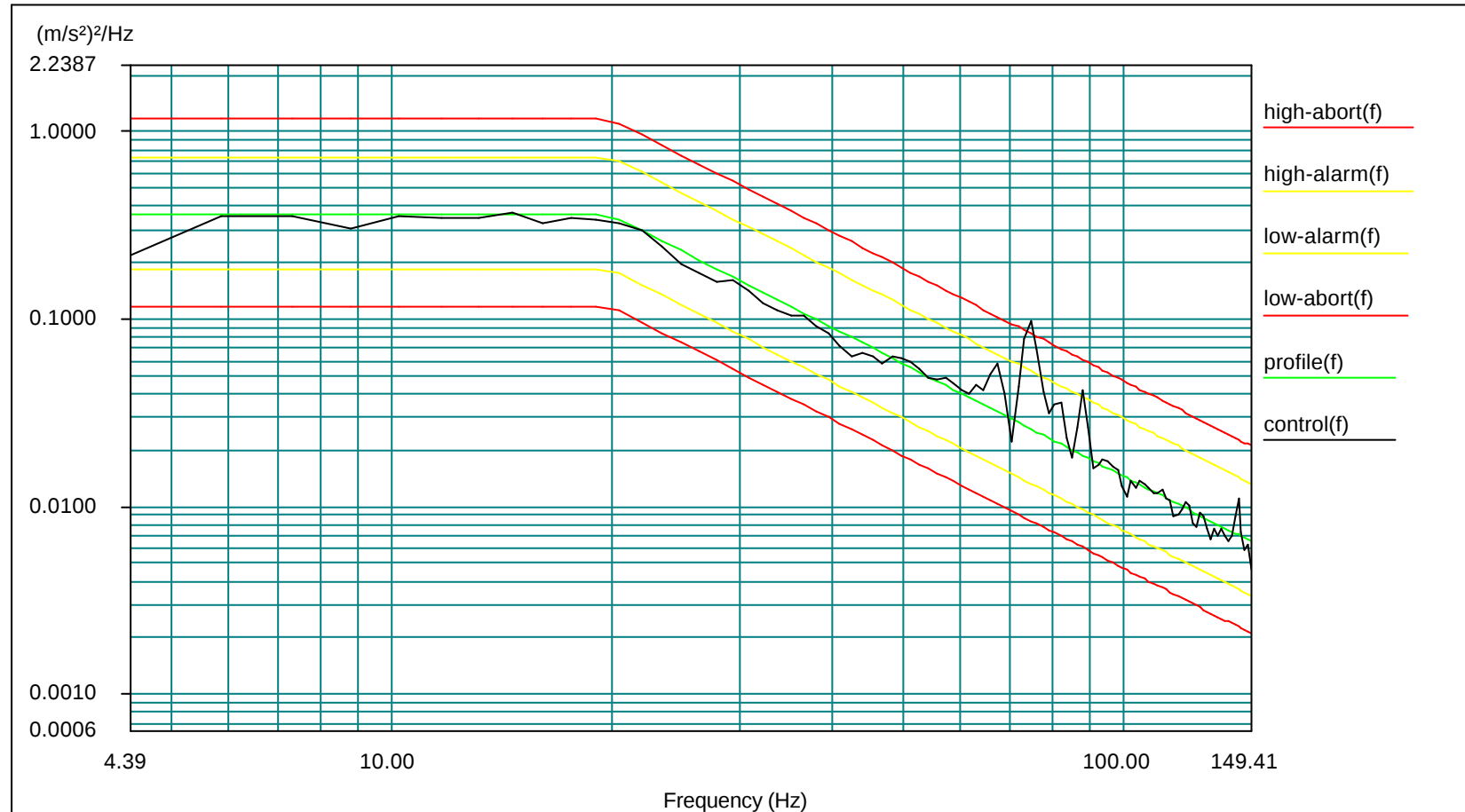
RUN 2 Fairfield TRANSVERSAL LONG LIFE

Project File Name: RUN2.prj

Profile Name: Cat. 1 - Class B < 500 kg

Test Type: Random

Run Folder: .\RunDefault Apr 17,2008 11-10-16



Level: -0.300001 dB

Control RMS: 3.445624 m/s² Full Level Elapsed Time: 05:00:00

Demand RMS: 3.358615 m/s² Remaining Time: 00:00:00

Lines: 100 Frame Time: 0.682667 Seconds

DOF: 154 dF: 1.464844 Hz

Data saved at 04:11:45 PM, Thursday, April 17, 2008 Report created at 04:11:46 , giovedì, aprile 17, 2008

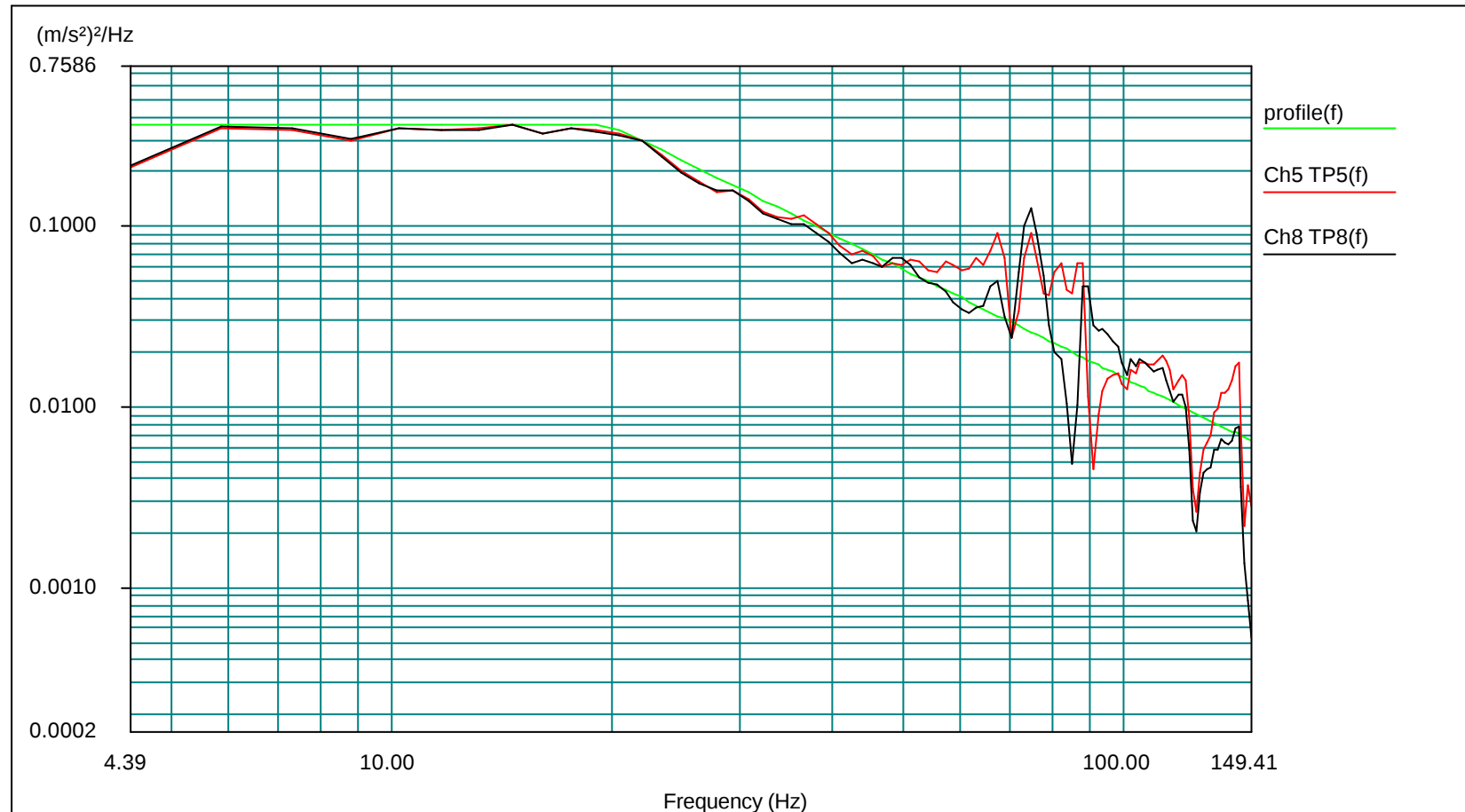
RUN 2 Fairfil TRANSVERSAL LONG LIFE

Project File Name: RUN2.prj

Profile Name: Cat. 1 - Class B < 500 kg

Test Type: Random

Run Folder: .\RunDefault Apr 17,2008 11-10-16



Level: -0.300001 dB

Control RMS: 3.445624 m/s² Full Level Elapsed Time: 05:00:00

Demand RMS: 3.358615 m/s² Remaining Time: 00:00:00

Lines: 100 Frame Time: 0.682667 Seconds

DOF: 154 dF: 1.464844 Hz

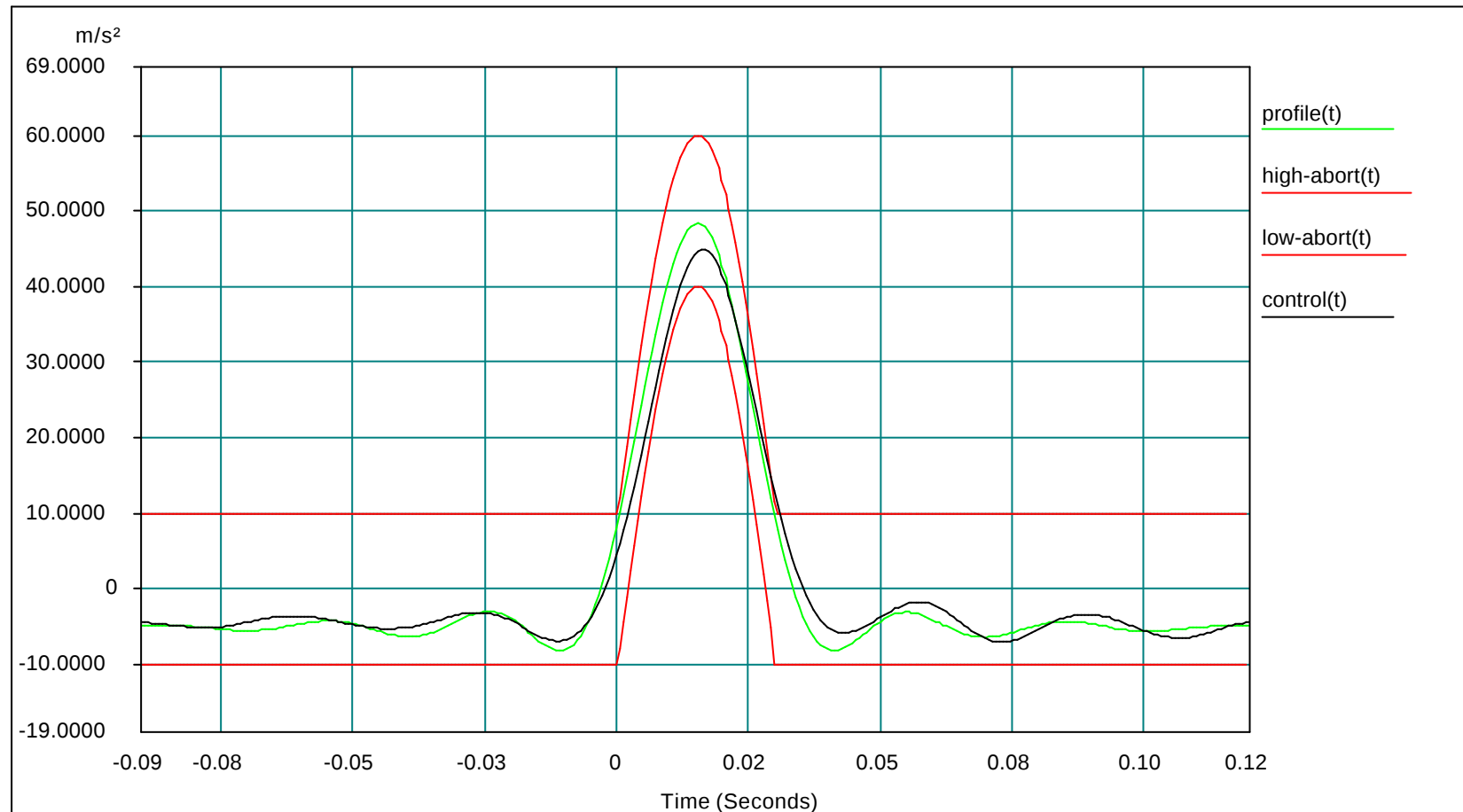
RUN 3 Fairfield LONGITUDINAL SHOCK Apr 18,2008 12-09-00

Project File Name: RUN3.prj

Profile Name: 50m/s² 30mSec

Test Type: Classical Shock

Run Folder: .\vib Apr 18,2008 12-08-06



Level:	100 %	Block Size:	2048	Elapsed Pulses:	10
Frame Time:	1.365333 Seconds	Control Peak:	44.897369 m/s ²	Control RMS:	5.495956 m/s ²
dT:	0.000667 Seconds	Demand Peak:	48.364277 m/s ²	Demand RMS:	5.938758 m/s ²
Pulse Type:	Half Sine	Amplitude:	50.000000 m/s ²	Full Level Elapsed Pulses:	1
				Remaining Pulses:	9

Data saved at 12:09:00 PM, Friday, April 18, 2008 Report created at 12:09:00 , venerdì, aprile 18, 2008

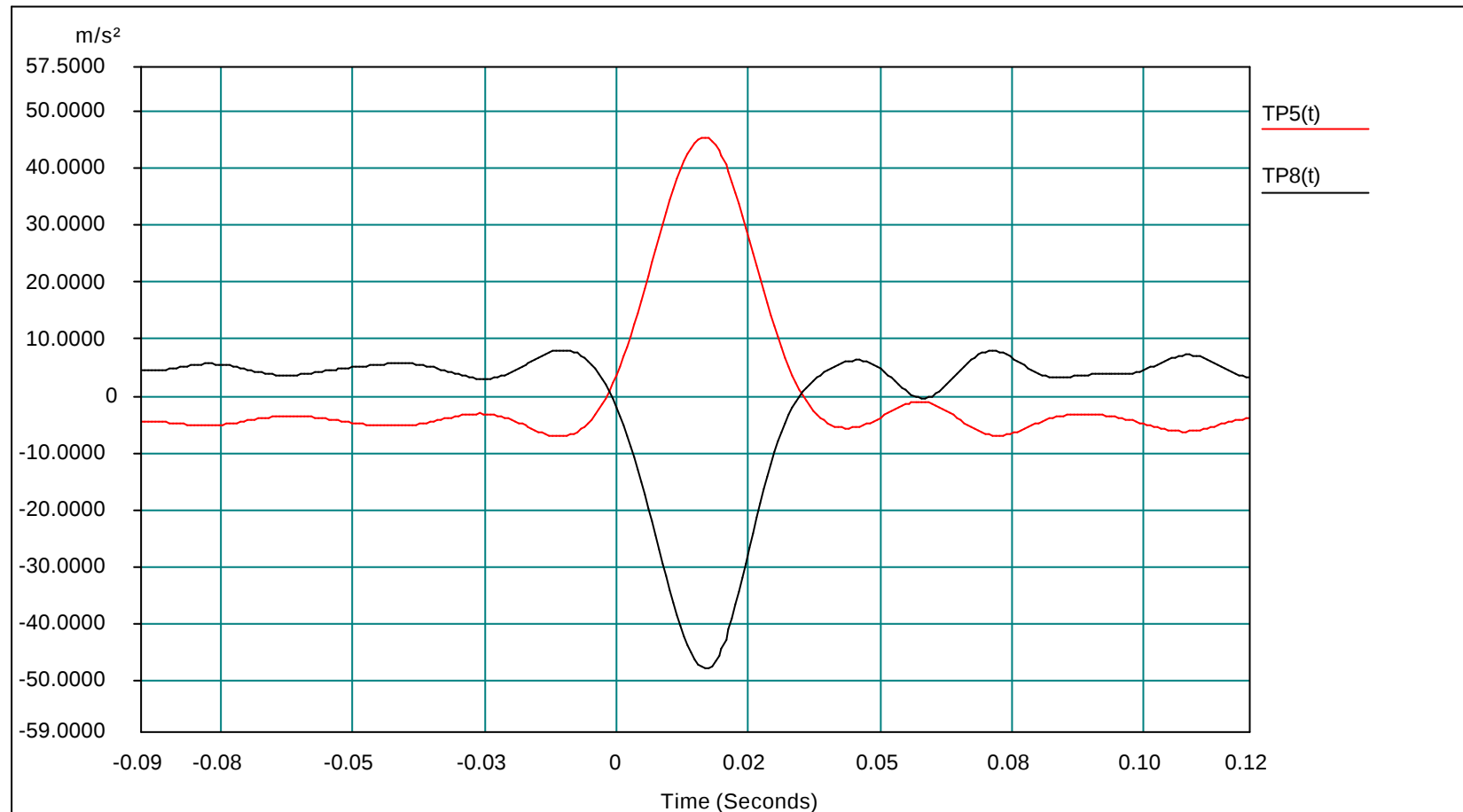
RUN 3 Fairfield LONGITUDINAL SHOCK Apr 18,2008 12-09-00

Project File Name: RUN3.prj

Profile Name: 50m/s² 30mSec

Test Type: Classical Shock

Run Folder: .\vib Apr 18,2008 12-08-06



Level:	100 %	Block Size:	2048	Elapsed Pulses:	10
Frame Time:	1.365333 Seconds	Control Peak:	44.897369 m/s ²	Control RMS:	5.495956 m/s ²
dT:	0.000667 Seconds	Demand Peak:	48.364277 m/s ²	Demand RMS:	5.938758 m/s ²
Pulse Type:	Half Sine	Amplitude:	50.000000 m/s ²	Full Level Elapsed Pulses:	1
				Remaining Pulses:	9

Data saved at 12:09:00 PM, Friday, April 18, 2008 Report created at 12:09:00 , venerdì, aprile 18, 2008

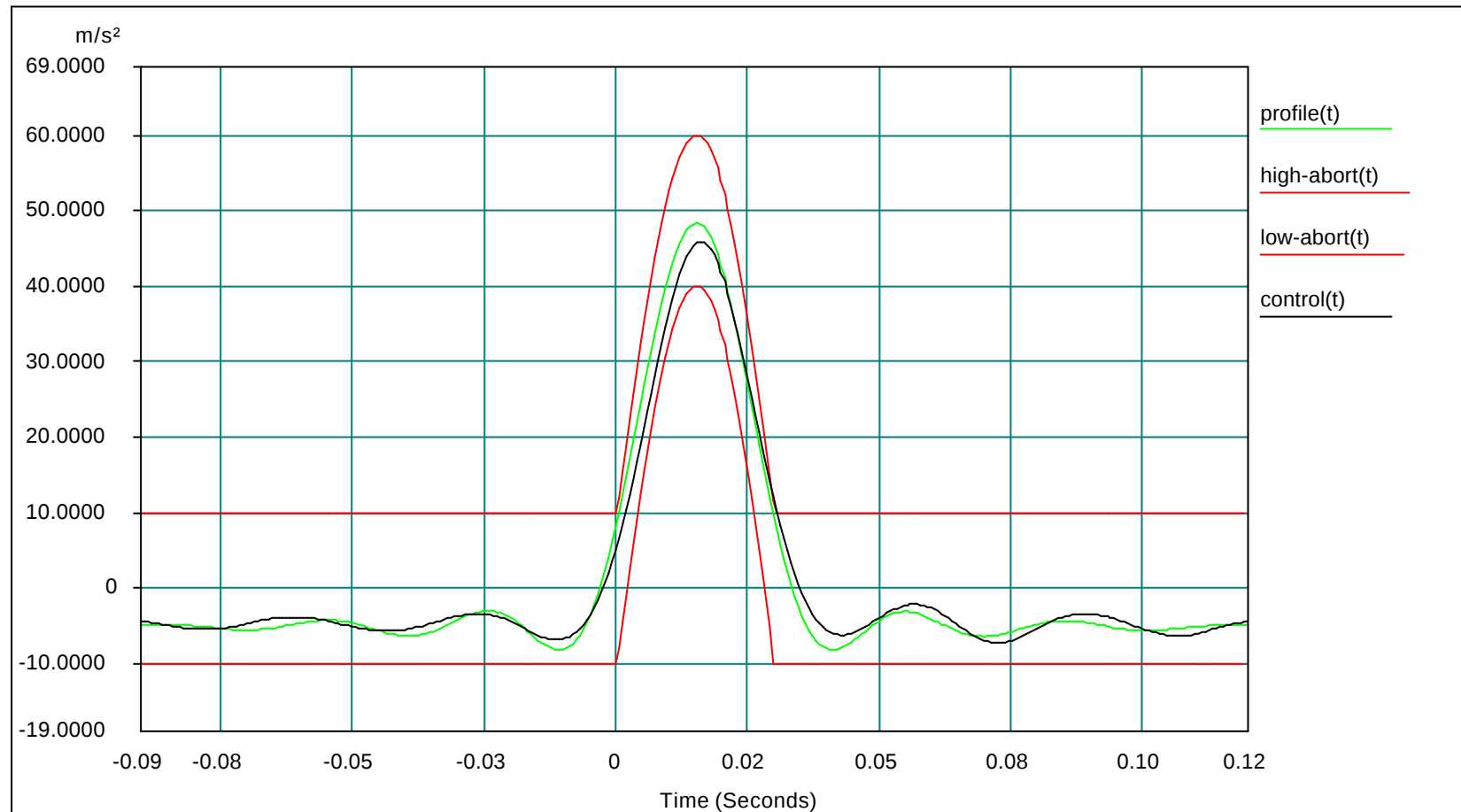
RUN 3 Fairfield LONGITUDINAL SHOCK Apr 18,2008 12-09-05

Project File Name: RUN3.prj

Profile Name: 50m/s² 30mSec

Test Type: Classical Shock

Run Folder: .\vib Apr 18,2008 12-08-06



Level:	100 %	Block Size:	2048	Elapsed Pulses:	11
Frame Time:	1.365333 Seconds	Control Peak:	45.908096 m/s ²	Control RMS:	5.603875 m/s ²
dT:	0.000667 Seconds	Demand Peak:	48.364277 m/s ²	Demand RMS:	5.938758 m/s ²
Pulse Type:	Half Sine	Amplitude:	50.000000 m/s ²	Full Level Elapsed Pulses:	2
				Remaining Pulses:	8

Data saved at 12:09:05 PM, Friday, April 18, 2008 Report created at 12:09:05 , venerdì, aprile 18, 2008

RfK/S 600 15K - Vibration and shock test report

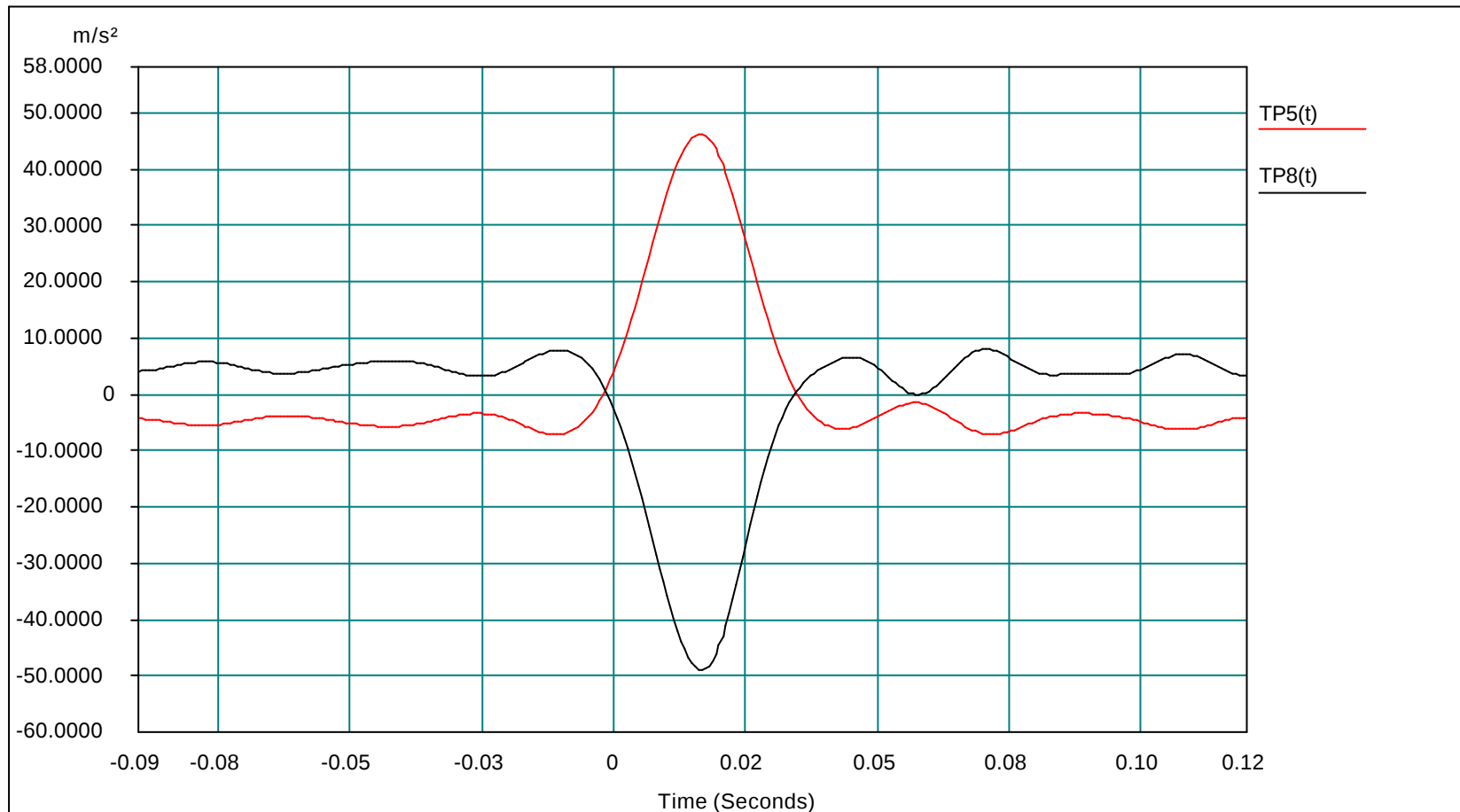
RUN 3 Fairfield LONGITUDINAL SHOCK Apr 18,2008 12-09-05

Project File Name: RUN3.prj

Profile Name: 50m/s² 30mSec

Test Type: Classical Shock

Run Folder: \vib Apr 18,2008 12-08-06



Level:	100 %	Block Size:	2048	Elapsed Pulses:	11
Frame Time:	1.365333 Seconds	Control Peak:	45.908096 m/s ²	Control RMS:	5.603875 m/s ²
dT:	0.000667 Seconds	Demand Peak:	48.364277 m/s ²	Demand RMS:	5.938758 m/s ²
Pulse Type:	Half Sine	Amplitude:	50.000000 m/s ²	Full Level Elapsed Pulses:	2
				Remaining Pulses:	8

Data saved at 12:09:05 PM, Friday, April 18, 2008 Report created at 12:09:05 , venerdì, aprile 18, 2008

RFS/S 600 15K - Vibration and shock test report

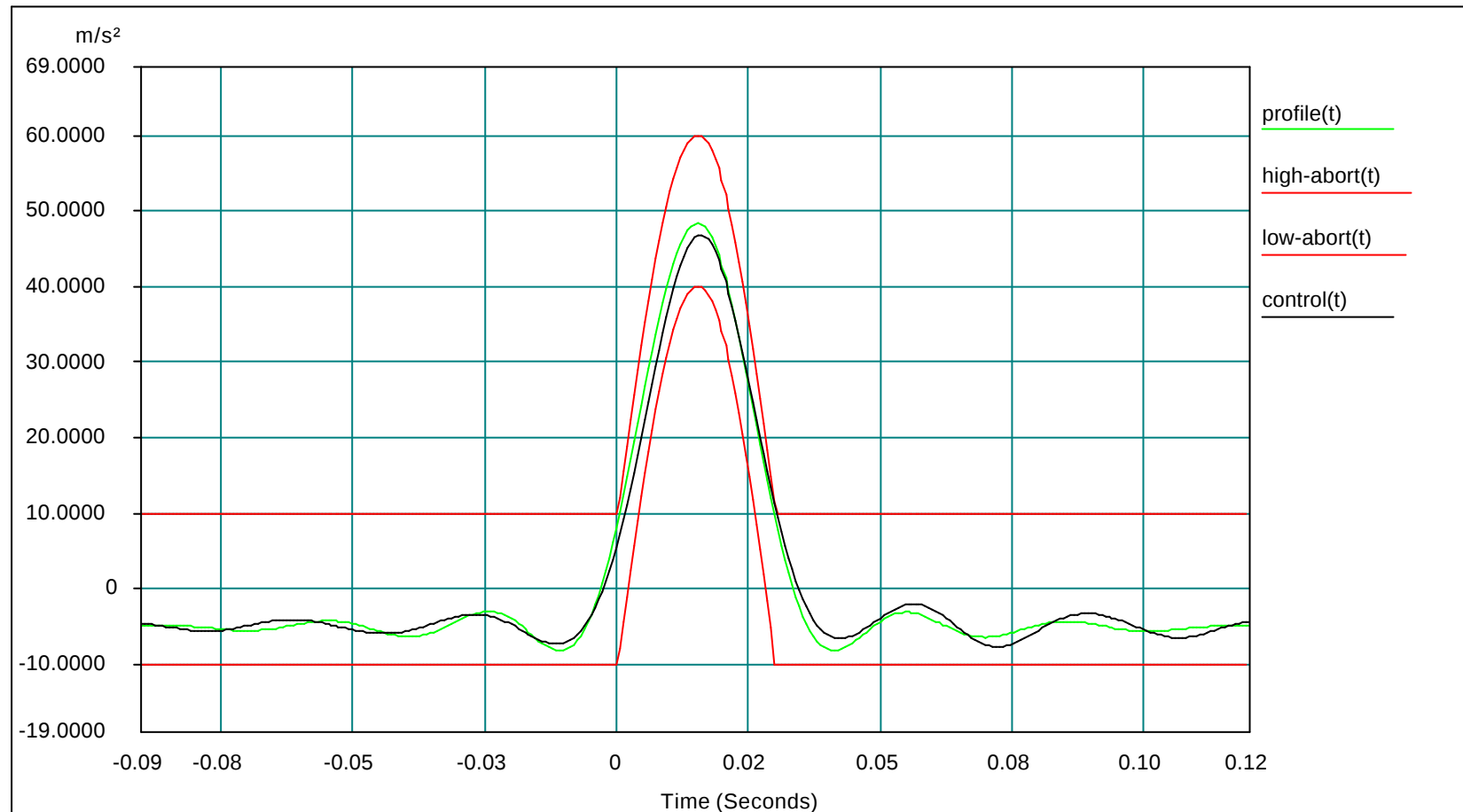
RUN 3 Fairfield LONGITUDINAL SHOCK Apr 18,2008 12-09-10

Project File Name: RUN3.prj

Profile Name: 50m/s² 30mSec

Test Type: Classical Shock

Run Folder: .\vib Apr 18,2008 12-08-06



Level:	100 %	Block Size:	2048	Elapsed Pulses:	12
Frame Time:	1.365333 Seconds	Control Peak:	46.799694 m/s ²	Control RMS:	5.705847 m/s ²
dT:	0.000667 Seconds	Demand Peak:	48.364277 m/s ²	Demand RMS:	5.938758 m/s ²
Pulse Type:	Half Sine	Amplitude:	50.000000 m/s ²	Full Level Elapsed Pulses:	3
				Remaining Pulses:	7

Data saved at 12:09:10 PM, Friday, April 18, 2008 Report created at 12:09:10 , venerdì, aprile 18, 2008

RfK/S 600 15K - Vibration and shock test report

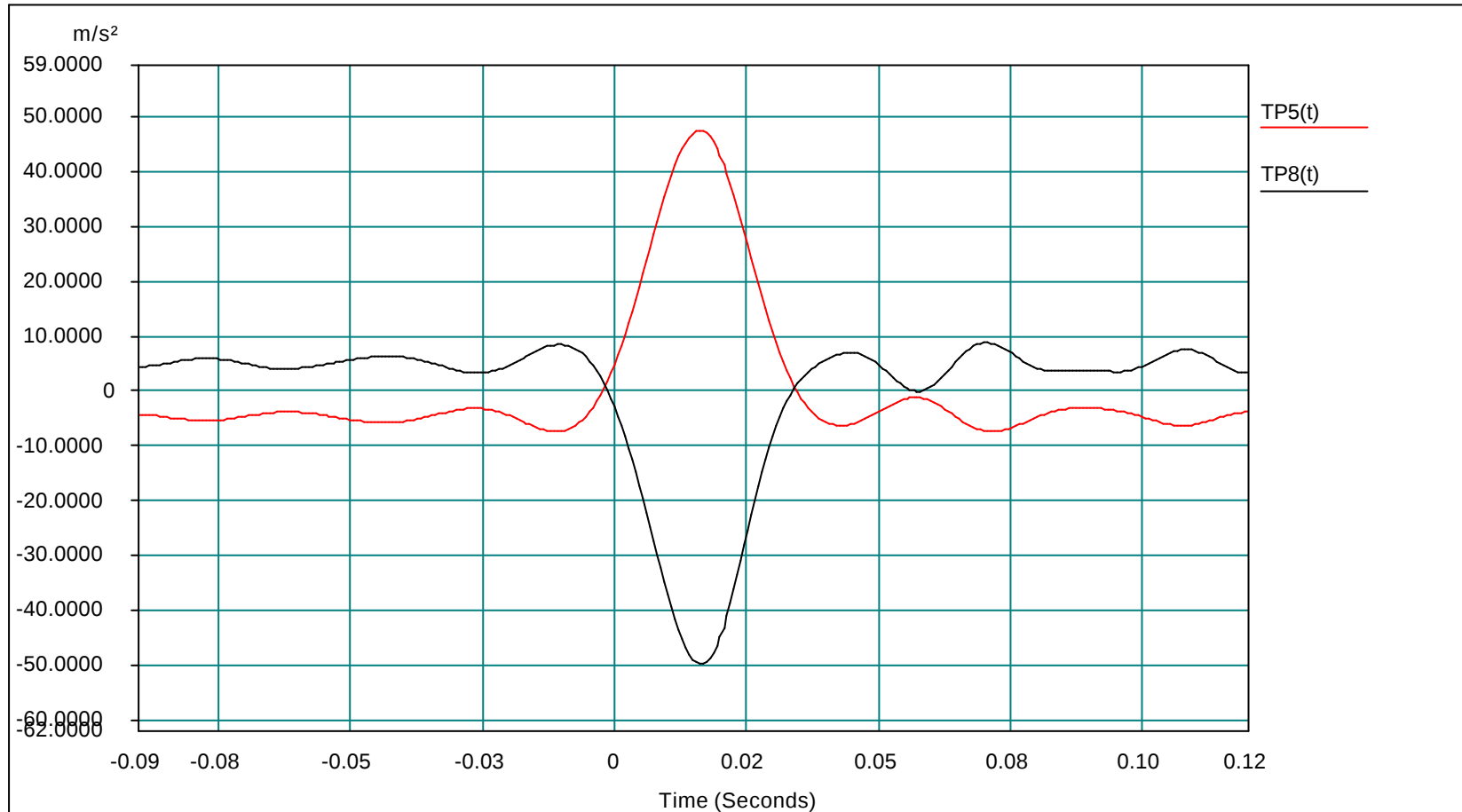
RUN 3 Fairfield LONGITUDINAL SHOCK Apr 18,2008 12-09-10

Project File Name: RUN3.prj

Profile Name: 50m/s² 30mSec

Test Type: Classical Shock

Run Folder: \vib Apr 18,2008 12-08-06



Level:	100 %	Block Size:	2048	Elapsed Pulses:	12
Frame Time:	1.365333 Seconds	Control Peak:	46.799694 m/s ²	Control RMS:	5.705847 m/s ²
dT:	0.000667 Seconds	Demand Peak:	48.364277 m/s ²	Demand RMS:	5.938758 m/s ²
Pulse Type:	Half Sine	Amplitude:	50.000000 m/s ²	Full Level Elapsed Pulses:	3
				Remaining Pulses:	7

Data saved at 12:09:10 PM, Friday, April 18, 2008 Report created at 12:09:10 , venerdì, aprile 18, 2008

RFK/S 600 15K - Vibration and shock test report

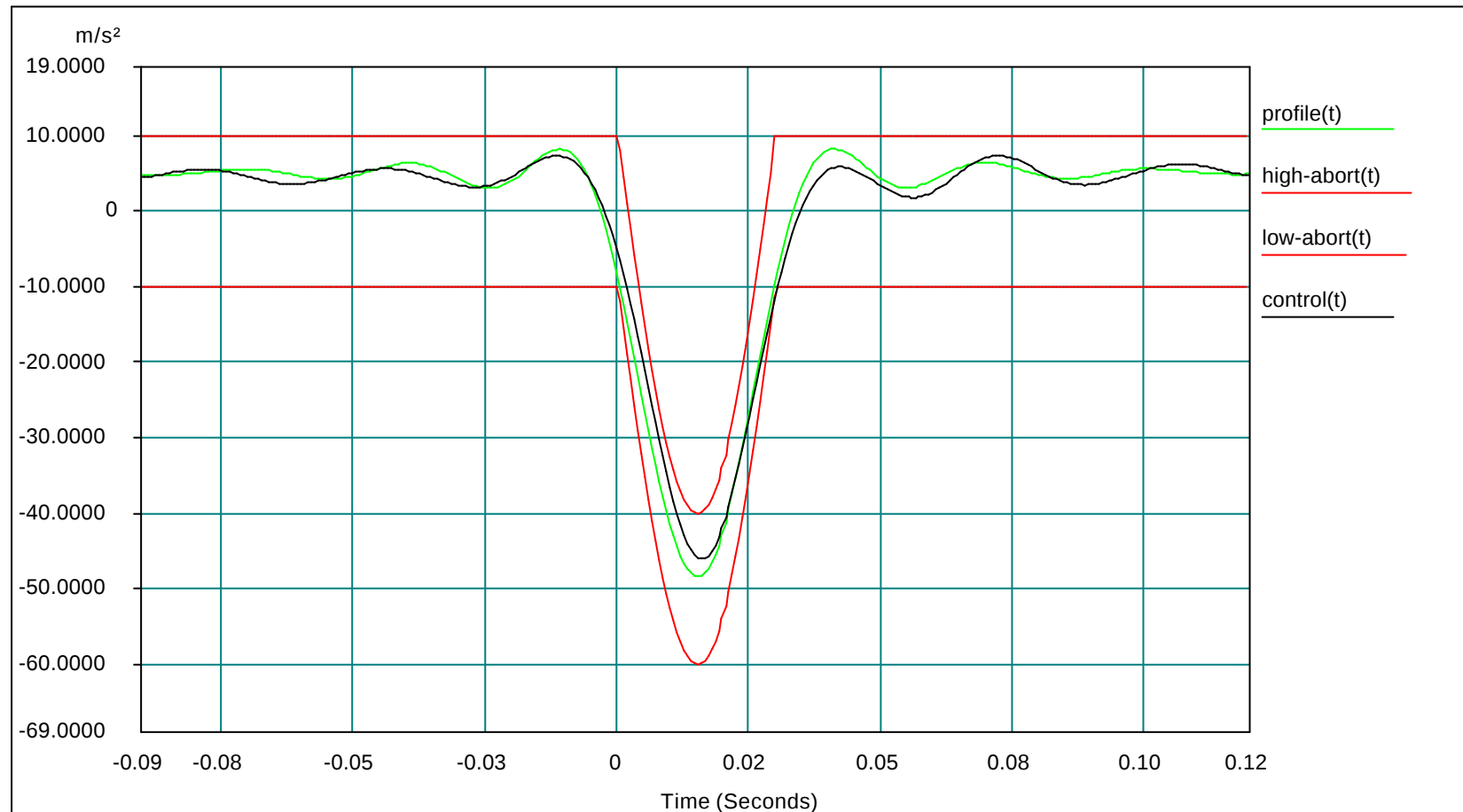
RUN 3 Fairfield LONGITUDINAL SHOCK Apr 18,2008 12-09-35

Project File Name: RUN3.prj

Profile Name: 50m/s² 30mSec

Test Type: Classical Shock

Run Folder: \vib Apr 18,2008 12-08-06



Level:	100 %	Block Size:	2048	Elapsed Pulses:	17
Frame Time:	1.365333 Seconds	Control Peak:	46.050423 m/s ²	Control RMS:	5.602177 m/s ²
dT:	0.000667 Seconds	Demand Peak:	48.364277 m/s ²	Demand RMS:	5.938758 m/s ²
Pulse Type:	Half Sine	Amplitude:	50.000000 m/s ²	Full Level Elapsed Pulses:	4
				Remaining Pulses:	2

Data saved at 12:09:35 PM, Friday, April 18, 2008 Report created at 12:09:35 , venerdì, aprile 18, 2008

RfK/S 600 15K - Vibration and shock test report

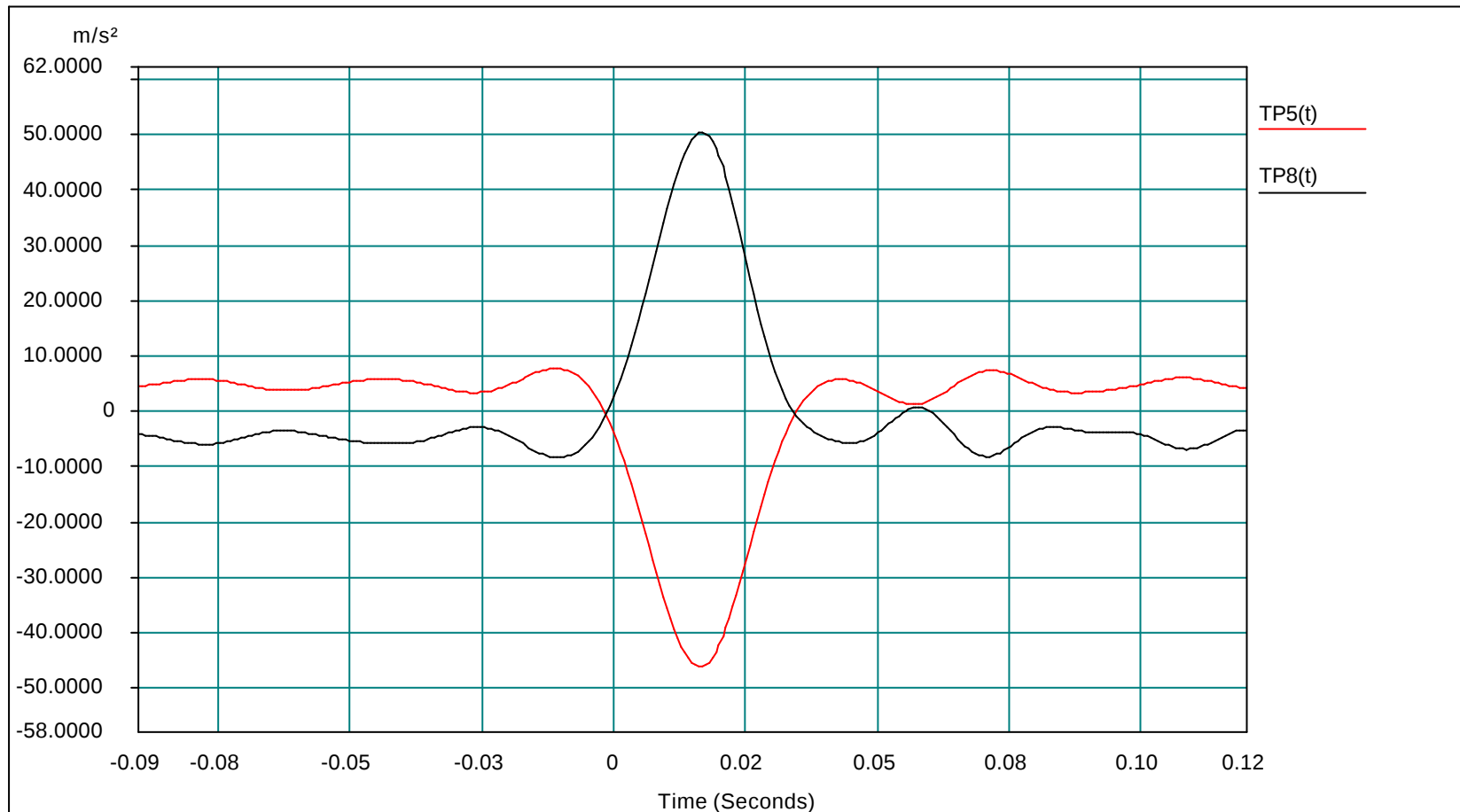
RUN 3 Fairfield LONGITUDINAL SHOCK Apr 18,2008 12-09-35

Project File Name: RUN3.prj

Profile Name: 50m/s² 30mSec

Test Type: Classical Shock

Run Folder: \vib Apr 18,2008 12-08-06



Level:	100 %	Block Size:	2048	Elapsed Pulses:	17
Frame Time:	1.365333 Seconds	Control Peak:	46.050423 m/s ²	Control RMS:	5.602177 m/s ²
dT:	0.000667 Seconds	Demand Peak:	48.364277 m/s ²	Demand RMS:	5.938758 m/s ²
Pulse Type:	Half Sine	Amplitude:	50.000000 m/s ²	Full Level Elapsed Pulses:	4
				Remaining Pulses:	2

Data saved at 12:09:35 PM, Friday, April 18, 2008 Report created at 12:09:35 , venerdì, aprile 18, 2008

RFK/S 600 15K - Vibration and shock test report

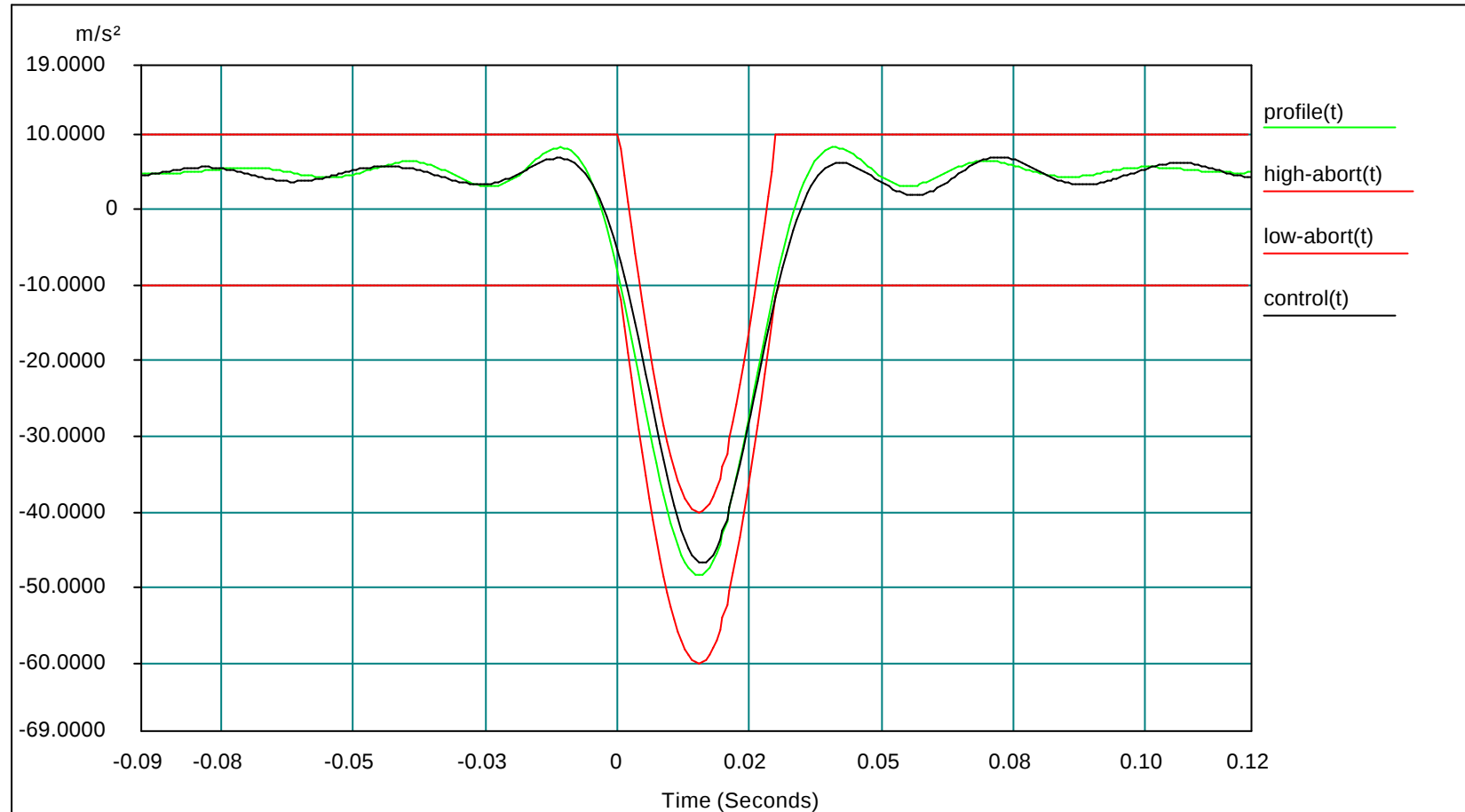
RUN 3 Fairfield LONGITUDINAL SHOCK Apr 18,2008 12-09-40

Project File Name: RUN3.prj

Profile Name: 50m/s² 30mSec

Test Type: Classical Shock

Run Folder: \vib Apr 18,2008 12-08-06



Level:	100 %	Block Size:	2048	Elapsed Pulses:	18
Frame Time:	1.365333 Seconds	Control Peak:	46.710968 m/s ²	Control RMS:	5.650871 m/s ²
dT:	0.000667 Seconds	Demand Peak:	48.364277 m/s ²	Demand RMS:	5.938758 m/s ²
Pulse Type:	Half Sine	Amplitude:	50.000000 m/s ²	Full Level Elapsed Pulses:	5
				Remaining Pulses:	1

Data saved at 12:09:40 PM, Friday, April 18, 2008 Report created at 12:09:40 , venerdì, aprile 18, 2008

RfK/S 600 15K - Vibration and shock test report

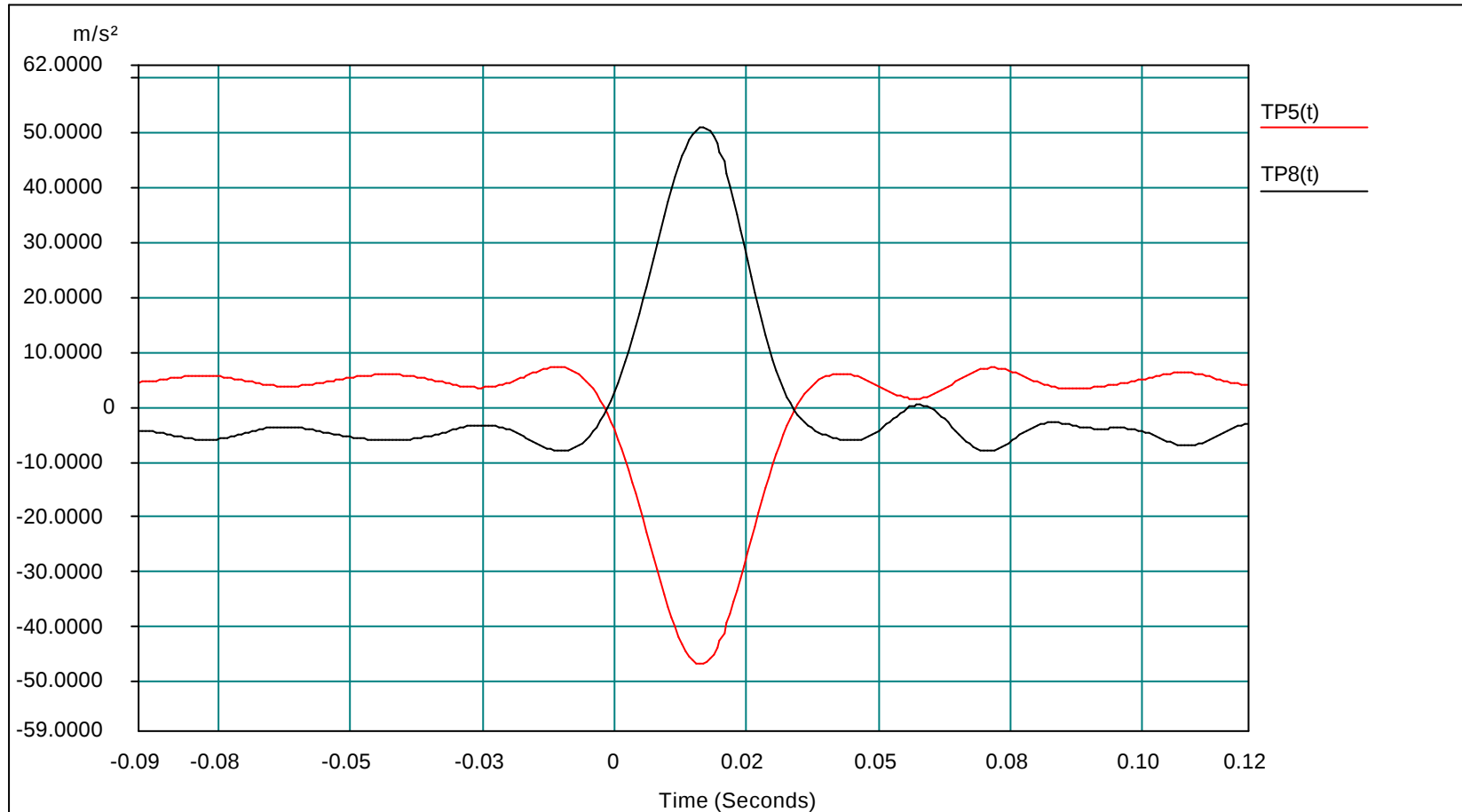
RUN 3 Fairfield LONGITUDINAL SHOCK Apr 18,2008 12-09-40

Project File Name: RUN3.prj

Profile Name: 50m/s² 30mSec

Test Type: Classical Shock

Run Folder: \vib Apr 18,2008 12-08-06



Level:	100 %	Block Size:	2048	Elapsed Pulses:	18
Frame Time:	1.365333 Seconds	Control Peak:	46.710968 m/s ²	Control RMS:	5.650871 m/s ²
dT:	0.000667 Seconds	Demand Peak:	48.364277 m/s ²	Demand RMS:	5.938758 m/s ²
Pulse Type:	Half Sine	Amplitude:	50.000000 m/s ²	Full Level Elapsed Pulses:	5
				Remaining Pulses:	1

Data saved at 12:09:40 PM , Friday, April 18, 2008 Report created at 12:09:40 , venerdì, aprile 18, 2008

RFK/S 600 15K - Vibration and shock test report

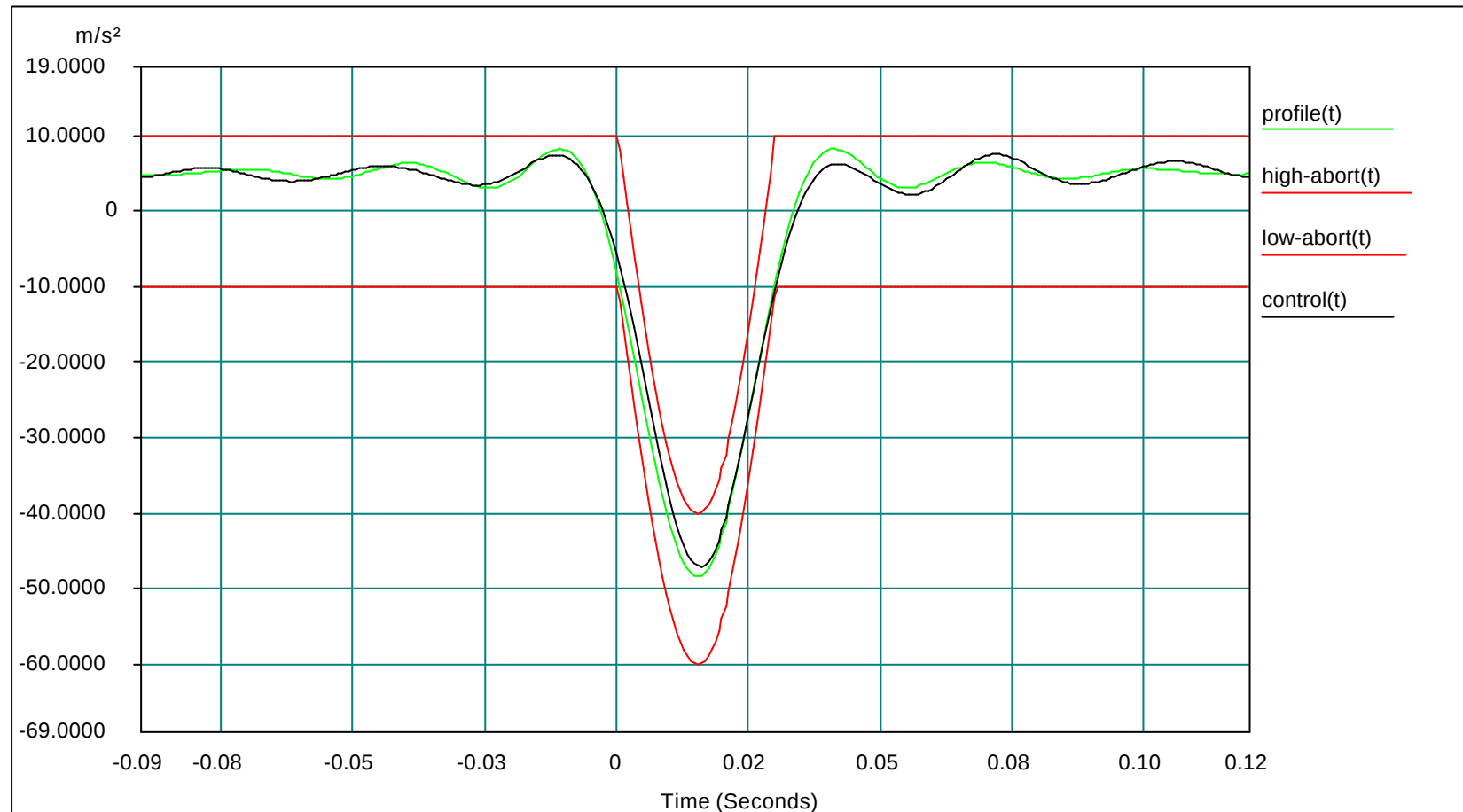
RUN 3 Fairfield LONGITUDINAL SHOCK Apr 18,2008 12-09-42

Project File Name: RUN3.prj

Profile Name: 50m/s² 30mSec

Test Type: Classical Shock

Run Folder: \vib Apr 18,2008 12-08-06



Level:	100 %	Block Size:	2048	Elapsed Pulses:	19
Frame Time:	1.365333 Seconds	Control Peak:	47.014114 m/s ²	Control RMS:	5.708388 m/s ²
dT:	0.000667 Seconds	Demand Peak:	48.364277 m/s ²	Demand RMS:	5.938758 m/s ²
Pulse Type:	Half Sine	Amplitude:	50.000000 m/s ²	Full Level Elapsed Pulses:	6
				Remaining Pulses:	0

Data saved at 12:09:42 PM, Friday, April 18, 2008 Report created at 12:09:43 , venerdì, aprile 18, 2008

RFK/S 600 15K - Vibration and shock test report

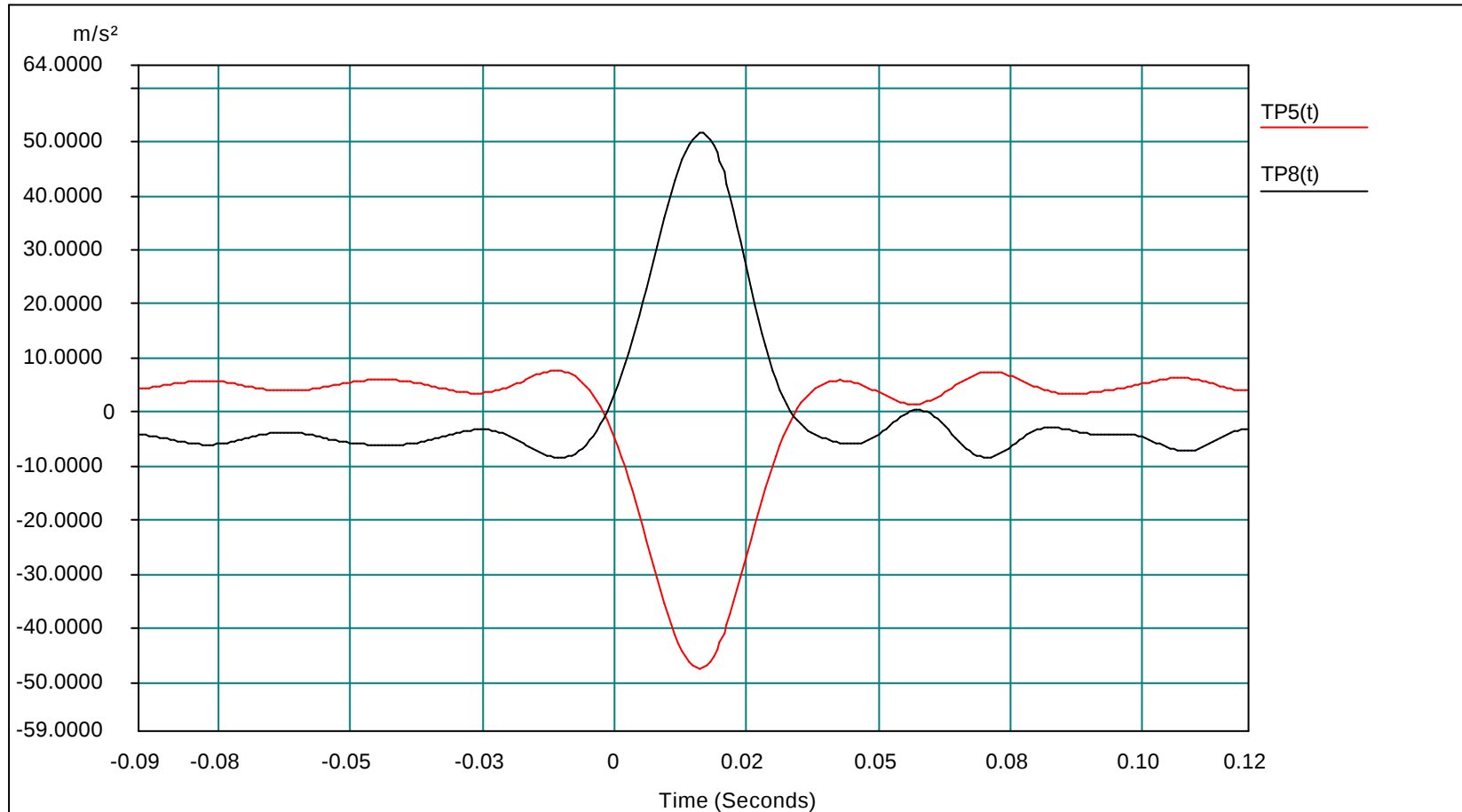
RUN 3 Fairfield LONGITUDINAL SHOCK Apr 18,2008 12-09-42

Project File Name: RUN3.prj

Profile Name: 50m/s² 30mSec

Test Type: Classical Shock

Run Folder: .\vib Apr 18,2008 12-08-06



Level:	100 %	Block Size:	2048	Elapsed Pulses:	19
Frame Time:	1.365333 Seconds	Control Peak:	47.014114 m/s ²	Control RMS:	5.708388 m/s ²
dT:	0.000667 Seconds	Demand Peak:	48.364277 m/s ²	Demand RMS:	5.938758 m/s ²
Pulse Type:	Half Sine	Amplitude:	50.000000 m/s ²	Full Level Elapsed Pulses:	6
				Remaining Pulses:	0

Data saved at 12:09:42 PM, Friday, April 18, 2008 Report created at 12:09:43 , venerdì, aprile 18, 2008

R/K/S 600 15K - Vibration and shock test report

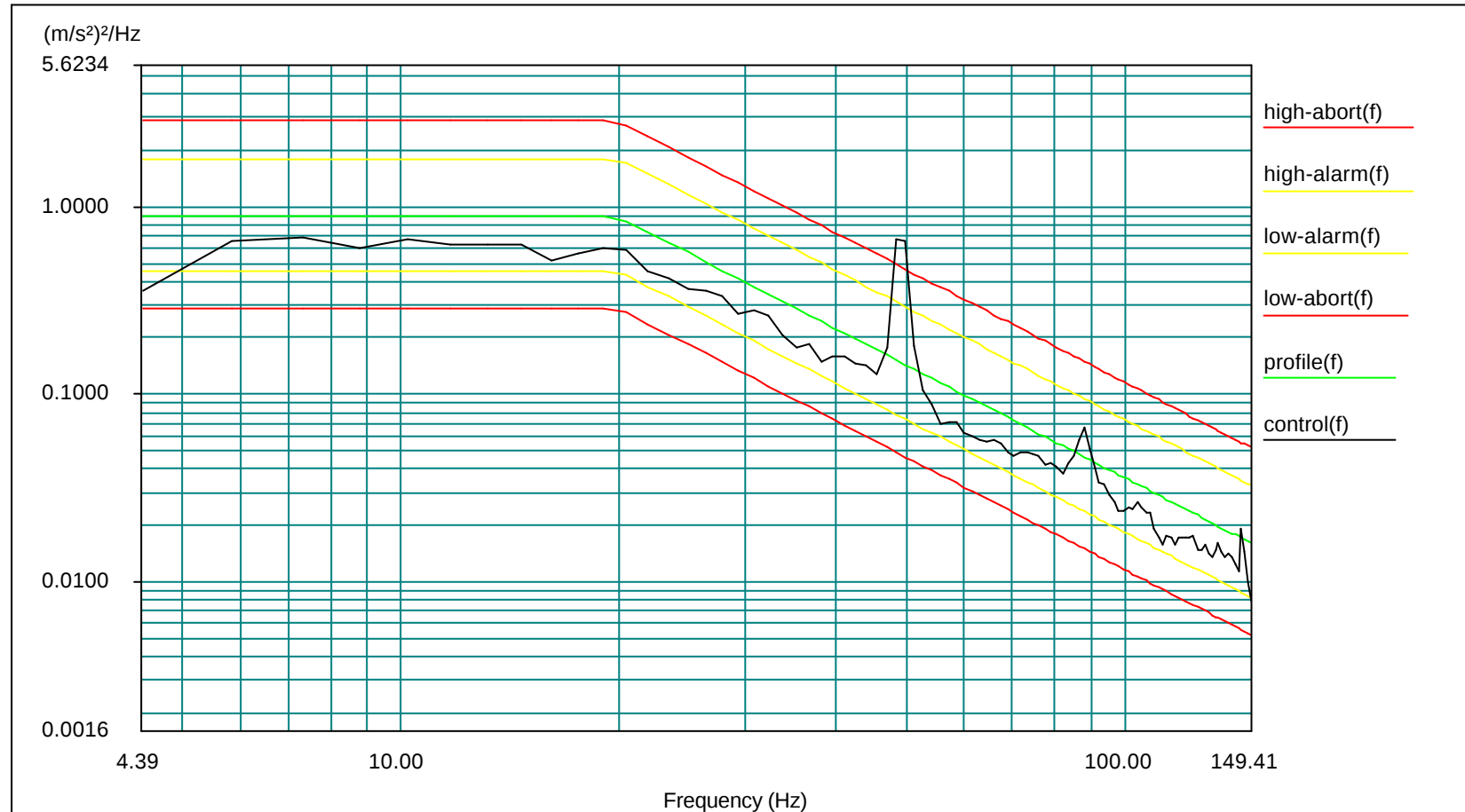
RUN 4 Fairfield LONGITUDINAL LONG LIFE

Project File Name: RUN4.prj

Profile Name: Cat. 1 - Class B < 500 kg

Test Type: Random

Run Folder: .\RunDefault Apr 18,2008 12-11-35



Level: -1.65571 dB

Control RMS: 4.725763 m/s² Full Level Elapsed Time: 00:08:20

Demand RMS: 4.508133 m/s² Remaining Time: 04:51:39

Lines: 100 Frame Time: 0.682667 Seconds

DOF: 154 dF: 1.464844 Hz

Data saved at 12:22:05 PM, Friday, April 18, 2008 Report created at 12:22:05 , venerdì, aprile 18, 2008

RFK/S 600 15K - Vibration and shock test report

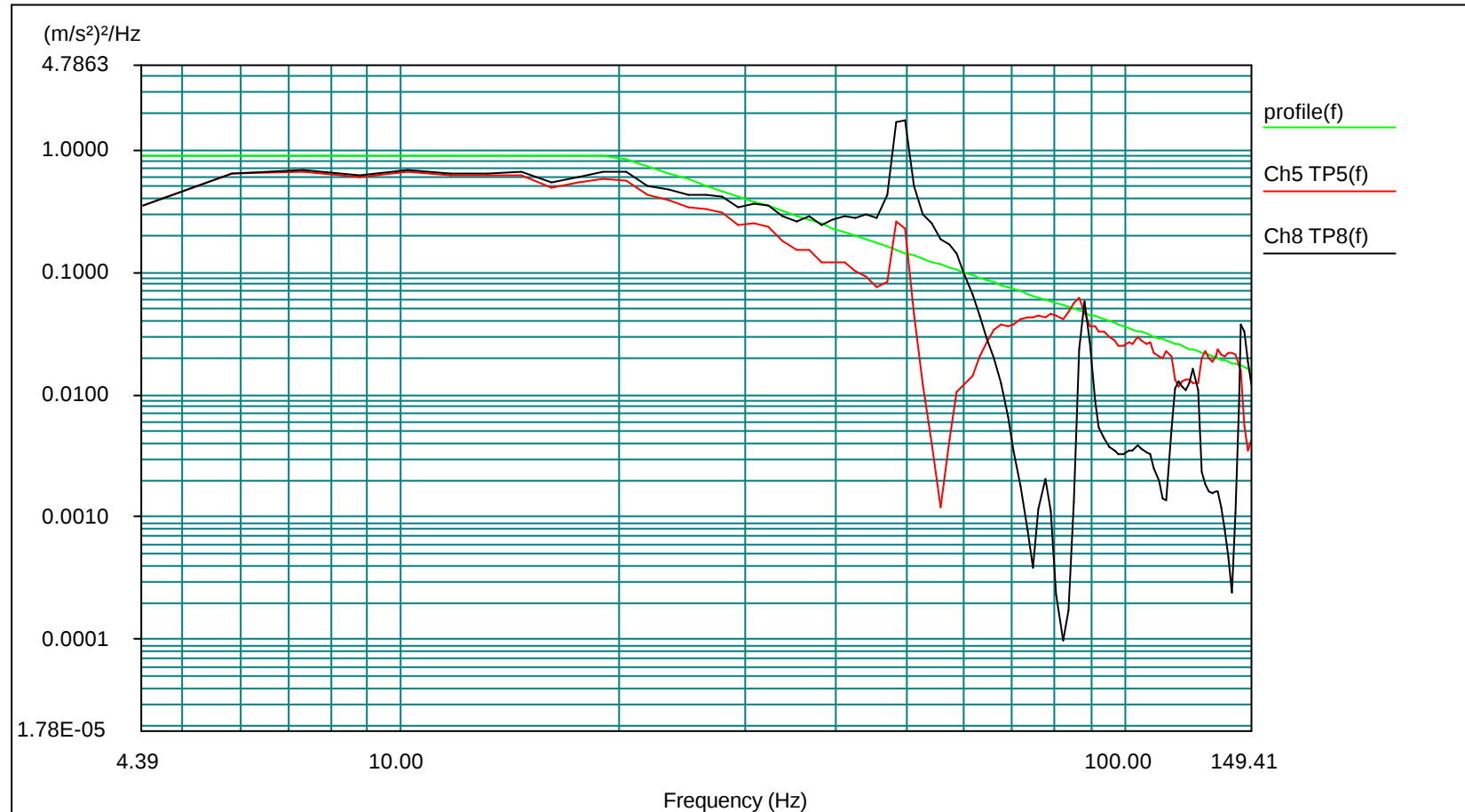
RUN 4 Fairfield LONGITUDINAL LONG LIFE

Project File Name: RUN4.prj

Profile Name: Cat. 1 - Class B < 500 kg

Test Type: Random

Run Folder: .\RunDefault Apr 18,2008 12-11-35



Level: -1.65571 dB

Control RMS: 4.725763 m/s² Full Level Elapsed Time: 00:08:20

Demand RMS: 4.508133 m/s² Remaining Time: 04:51:39

Lines: 100 Frame Time: 0.682667 Seconds

DOF: 154 dF: 1.464844 Hz

Data saved at 12:22:05 PM, Friday, April 18, 2008 Report created at 12:22:05 , venerdì, aprile 18, 2008

RFS/S 600 15K - Vibration and shock test report

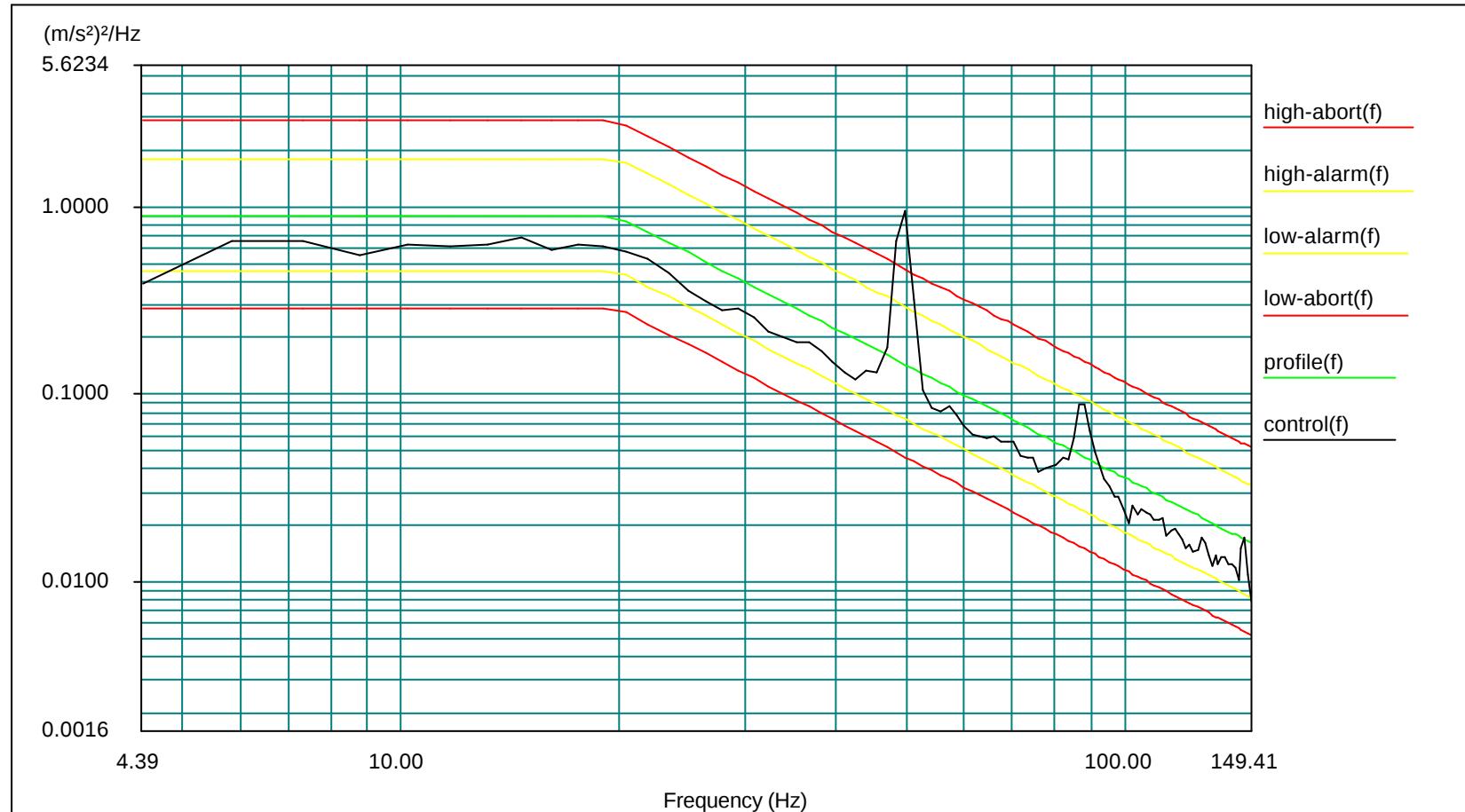
RUN 4 Fairfield LONGITUDINAL LONG LIFE

Project File Name: RUN4.prj

Profile Name: Cat. 1 - Class B < 500 kg

Test Type: Random

Run Folder: .\RunDefault Apr 18,2008 12-11-35



Level: -1.65571 dB

Control RMS: 4.811923 m/s^2 Full Level Elapsed Time: 05:00:00

Demand RMS: 4.508133 m/s^2 Remaining Time: 00:00:00

Lines: 100

DOF: 154

Frame Time: 0.682667 Seconds

dF: 1.464844 Hz

Data saved at 05:13:36 PM, Friday, April 18, 2008 Report created at 05:13:37, venerdì, aprile 18, 2008

R/K/S 600 15K - Vibration and shock test report

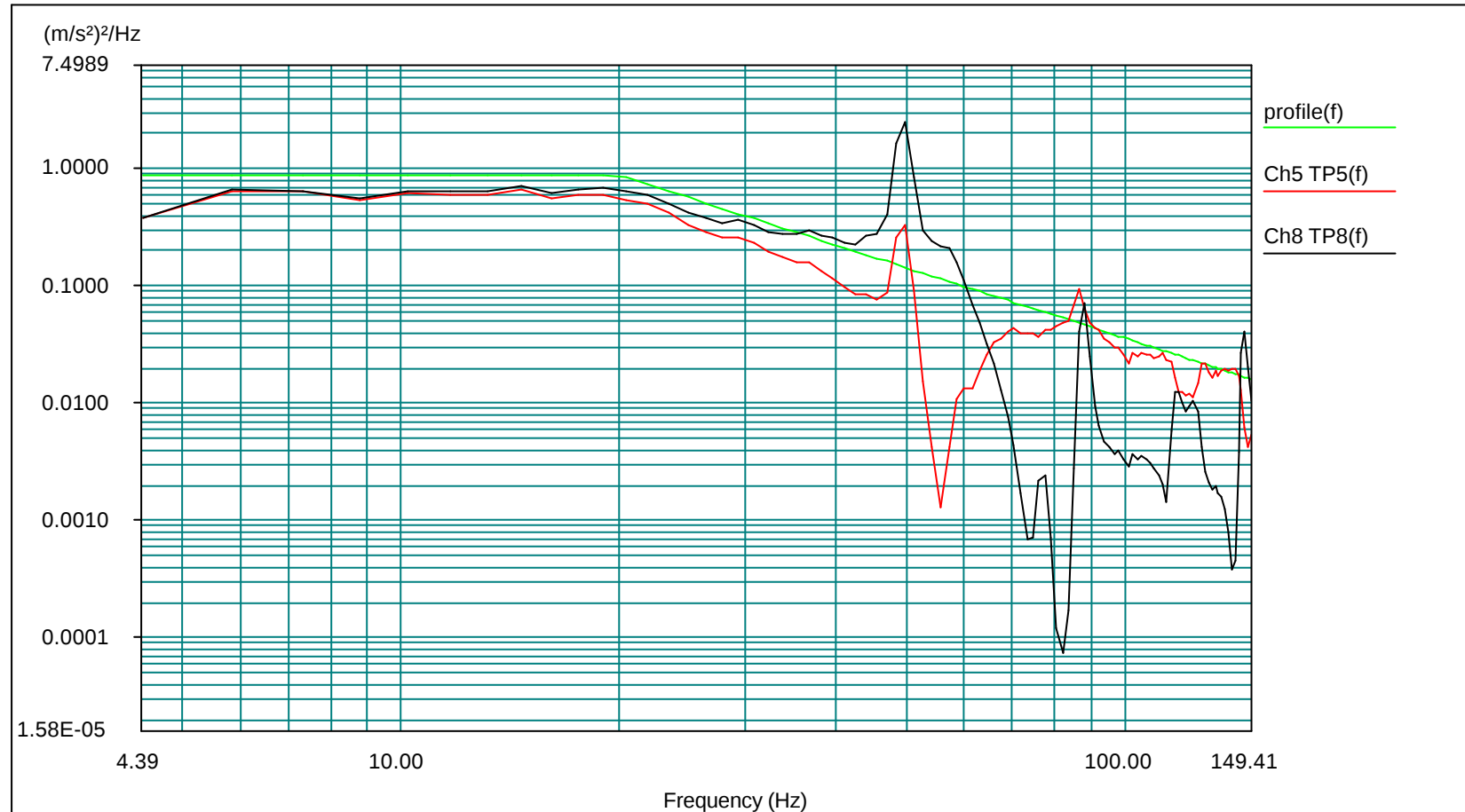
RUN 4 Fairfield LONGITUDINAL LONG LIFE

Project File Name: RUN4.prj

Profile Name: Cat. 1 - Class B < 500 kg

Test Type: Random

Run Folder: .\RunDefault Apr 18,2008 12-11-35



Level: -1.65571 dB

Control RMS: 4.811923 m/s^2 Full Level Elapsed Time: 05:00:00

Demand RMS: 4.508133 m/s^2 Remaining Time: 00:00:00

Lines: 100

DOF: 154

Frame Time: 0.682667 Seconds

dF: 1.464844 Hz

Data saved at 05:13:37 PM, Friday, April 18, 2008 Report created at 05:13:37 , venerdì, aprile 18, 2008

RFX/S 600 15K - Vibration and shock test report

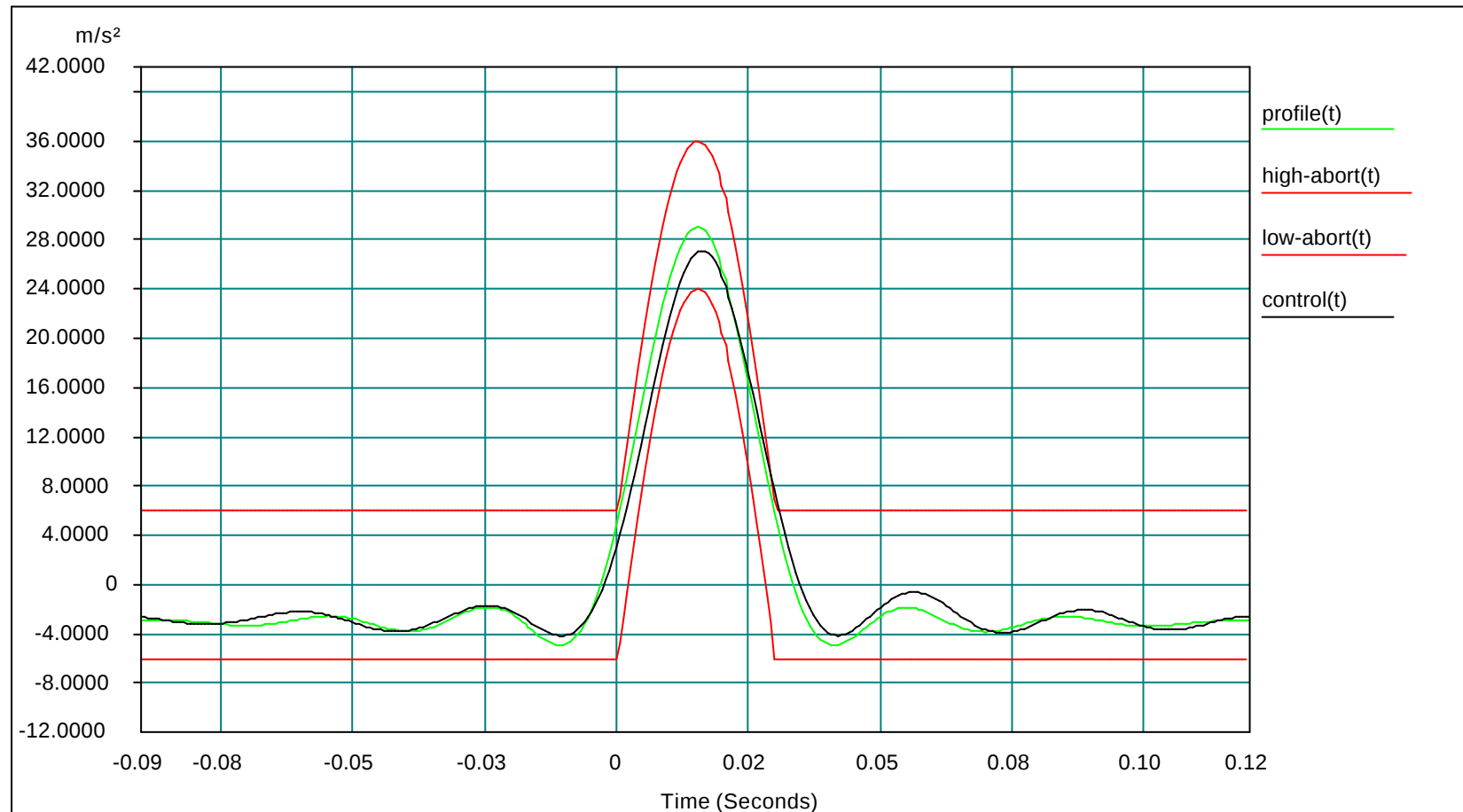
RUN 5 Fairfield VERTICAL SHOCK Apr 21,2008 09-04-12

Project File Name: RUN5.prj

Profile Name: 30m/s² 30mSec

Test Type: Classical Shock

Run Folder: .\vib Apr 21,2008 09-03-21



Level:	100 %	Block Size:	2048	Elapsed Pulses:	9
Frame Time:	1.365333 Seconds	Control Peak:	27.122496 m/s ²	Control RMS:	3.335220 m/s ²
dT:	0.000667 Seconds	Demand Peak:	29.018564 m/s ²	Demand RMS:	3.563255 m/s ²
Pulse Type:	Half Sine	Amplitude:	30.000000 m/s ²	Full Level Elapsed Pulses:	1
				Remaining Pulses:	9

Data saved at 09:04:12 AM, Monday, April 21, 2008 Report created at 09:04:14 , lundi, aprile 21, 2008

RFK/S 600 15K - Vibration and shock test report

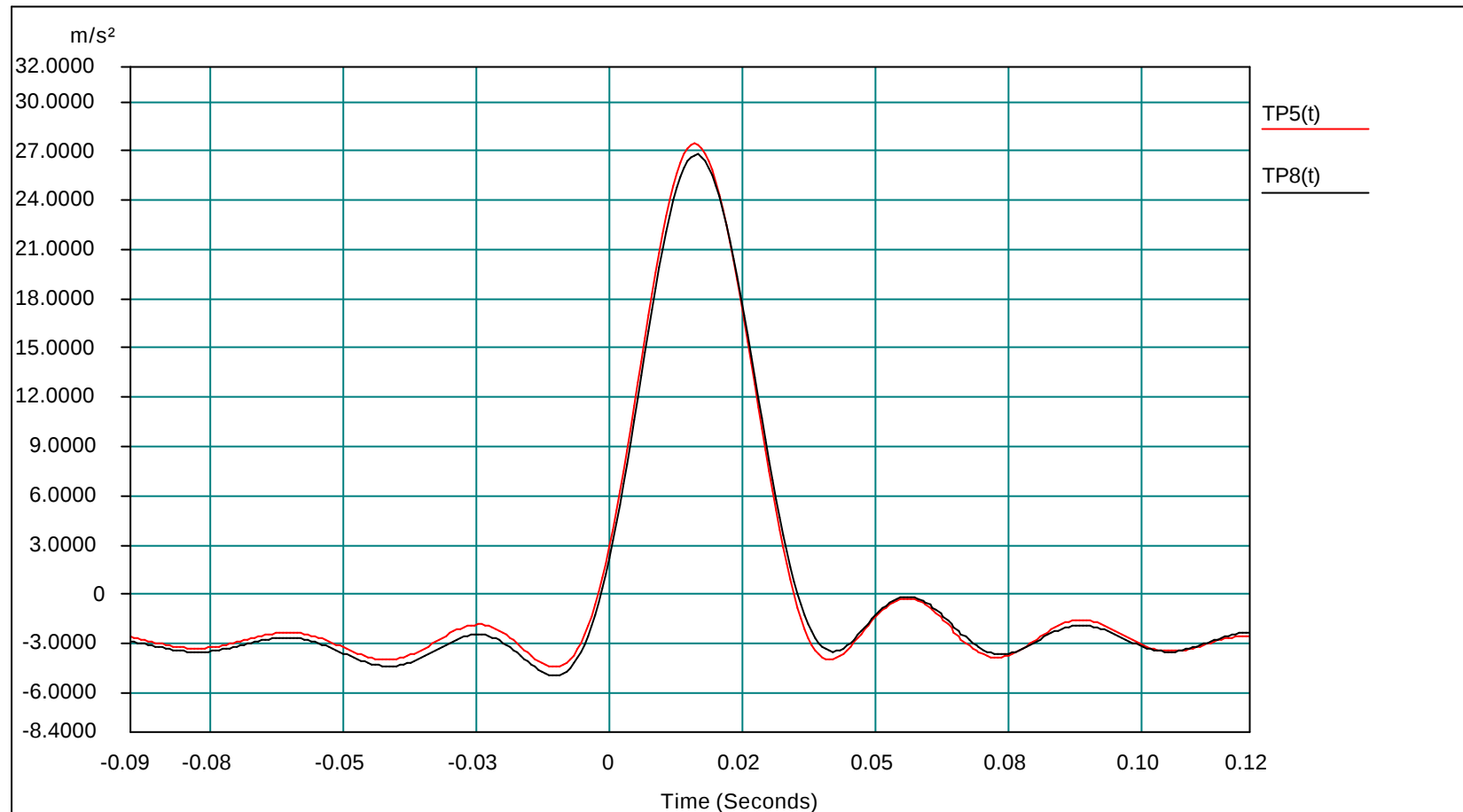
RUN 5 Fairfield VERTICAL SHOCK Apr 21,2008 09-04-12

Project File Name: RUN5.prj

Profile Name: 30m/s² 30mSec

Test Type: Classical Shock

Run Folder: .\vib Apr 21,2008 09-03-21



Level:	100 %	Block Size:	2048	Elapsed Pulses:	9
Frame Time:	1.365333 Seconds	Control Peak:	27.122496 m/s ²	Control RMS:	3.335220 m/s ²
dT:	0.000667 Seconds	Demand Peak:	29.018564 m/s ²	Demand RMS:	3.563255 m/s ²
Pulse Type:	Half Sine	Amplitude:	30.000000 m/s ²	Full Level Elapsed Pulses:	1
				Remaining Pulses:	9

Data saved at 09:04:12 AM, Monday, April 21, 2008 Report created at 09:04:14 , lundi, aprile 21, 2008

RFK/S 600 15K - Vibration and shock test report

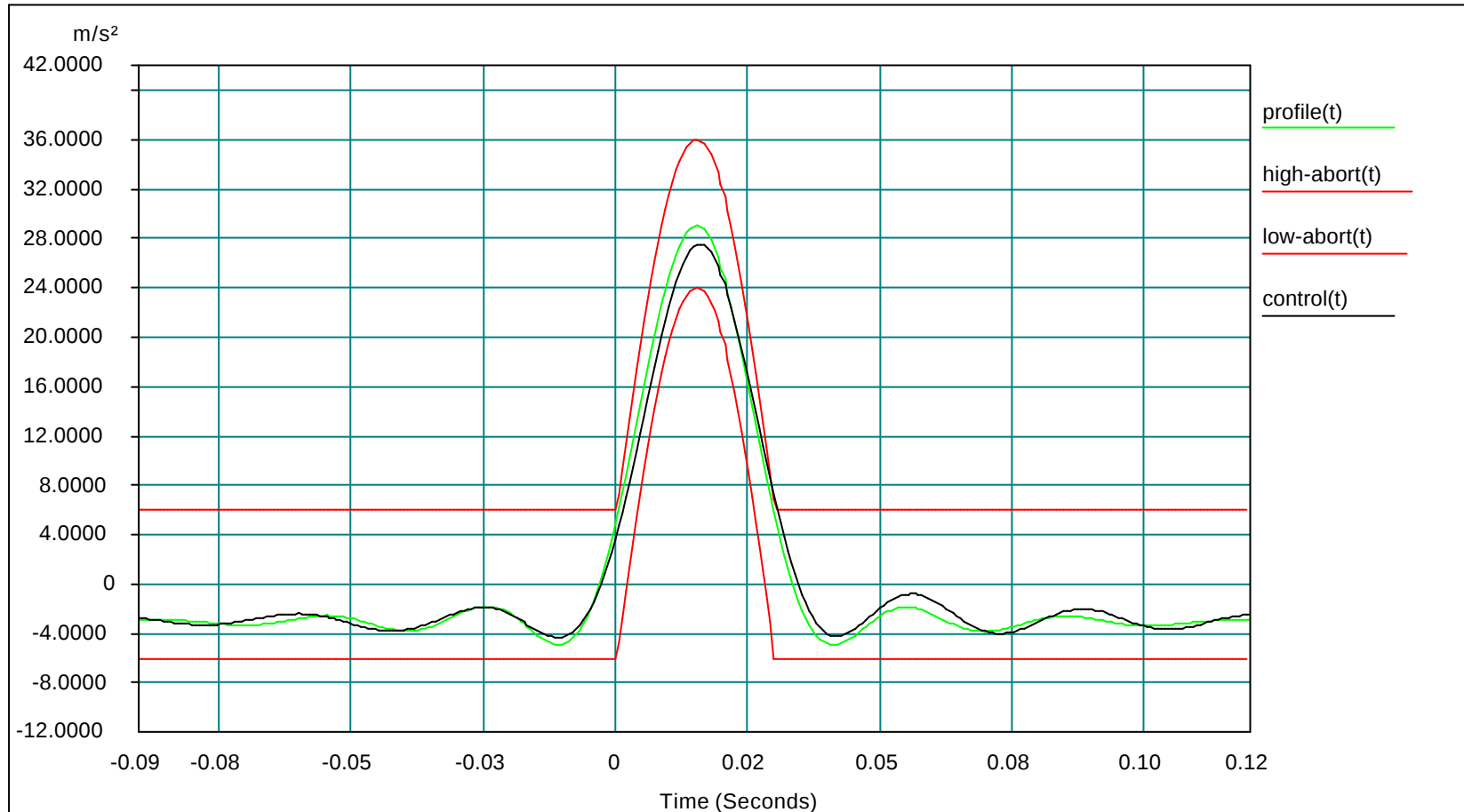
RUN 5 Fairfield VERTICAL SHOCK Apr 21,2008 09-04-17

Project File Name: RUN5.prj

Profile Name: 30m/s² 30mSec

Test Type: Classical Shock

Run Folder: .\vib Apr 21,2008 09-03-21



Level:	100 %	Block Size:	2048	Elapsed Pulses:	10	
Frame Time:	1.365333 Seconds	Control Peak:	27.546303 m/s ²	Control RMS:	3.391293 m/s ²	Full Level Elapsed Pulses: 2
dT:	0.000667 Seconds	Demand Peak:	29.018564 m/s ²	Demand RMS:	3.563255 m/s ²	Remaining Pulses: 8
Pulse Type:	Half Sine	Amplitude:	30.000000 m/s ²			

Data saved at 09:04:17 AM, Monday, April 21, 2008 Report created at 09:04:17 , lunedì, aprile 21, 2008

RFK/S 600 15K - Vibration and shock test report

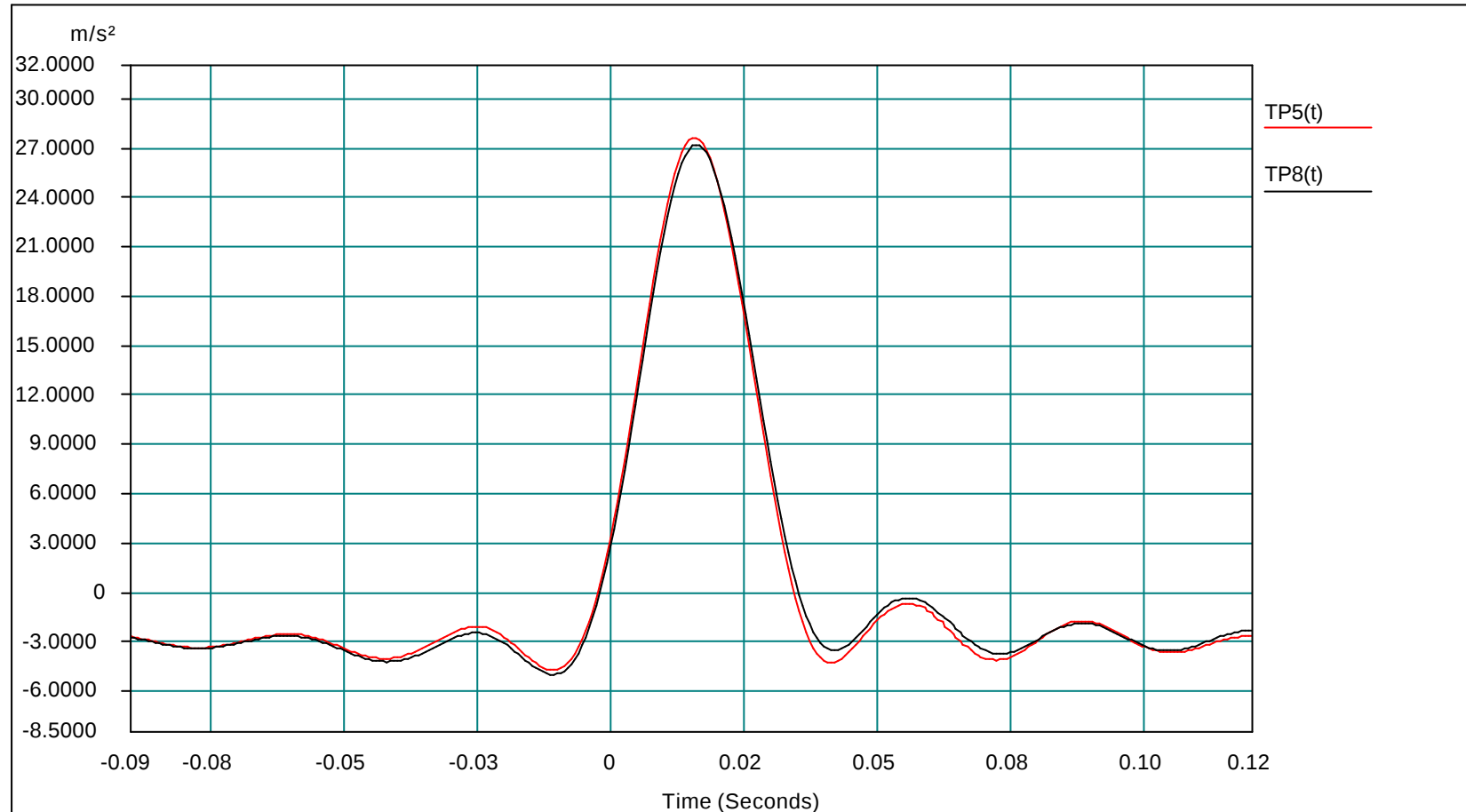
RUN 5 Fairfield VERTICAL SHOCK Apr 21,2008 09-04-17

Project File Name: RUN5.prj

Profile Name: 30m/s² 30mSec

Test Type: Classical Shock

Run Folder: .\vib Apr 21,2008 09-03-21



Level:	100 %	Block Size:	2048	Elapsed Pulses:	10
Frame Time:	1.365333 Seconds	Control Peak:	27.546303 m/s ²	Control RMS:	3.391293 m/s ²
dT:	0.000667 Seconds	Demand Peak:	29.018564 m/s ²	Demand RMS:	3.563255 m/s ²
Pulse Type:	Half Sine	Amplitude:	30.000000 m/s ²	Full Level Elapsed Pulses:	2
				Remaining Pulses:	8

Data saved at 09:04:17 AM, Monday, April 21, 2008 Report created at 09:04:17 , lunedì, aprile 21, 2008

RFK/S 600 15K - Vibration and shock test report

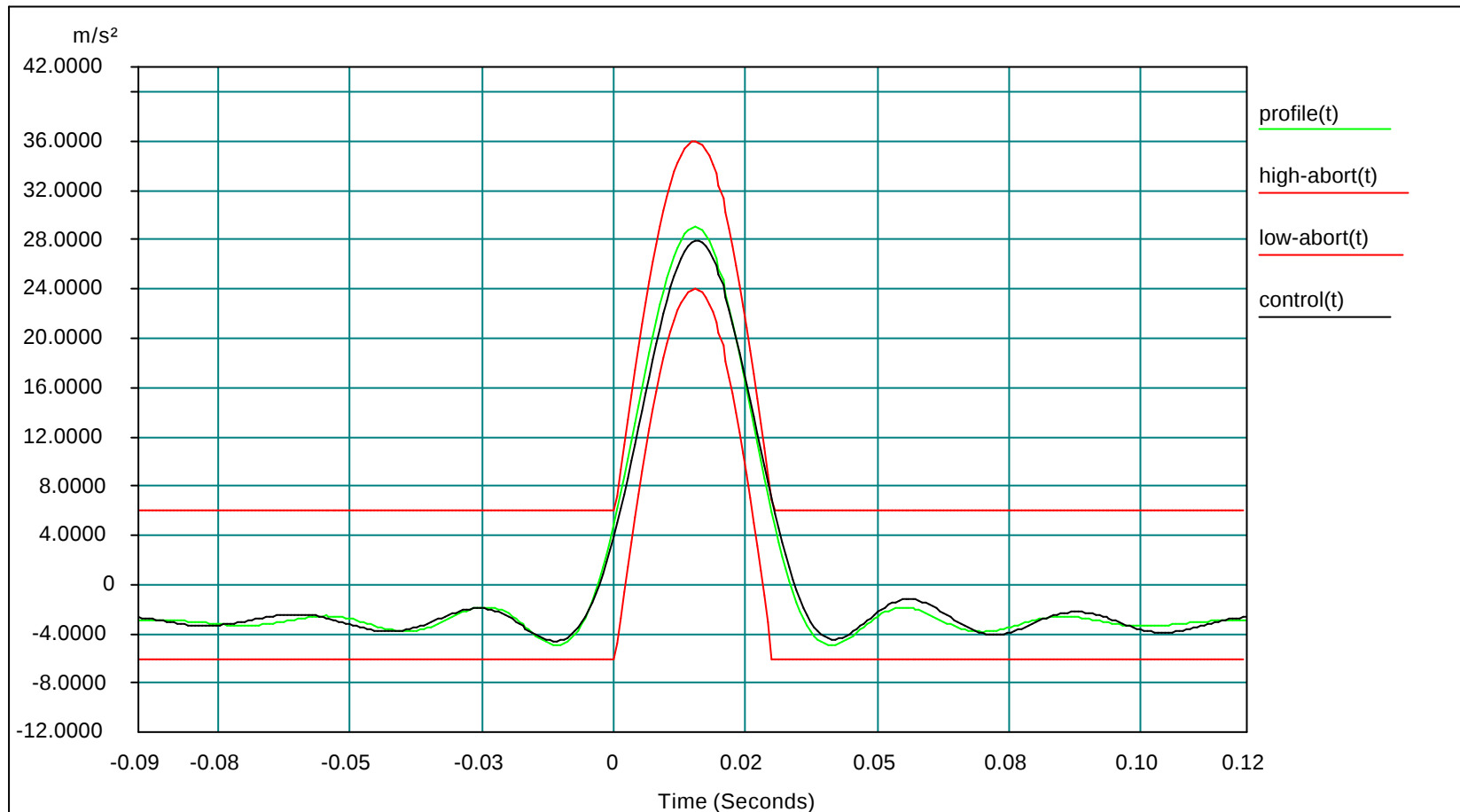
RUN 5 Fairfield VERTICAL SHOCK Apr 21,2008 09-04-22

Project File Name: RUN5.prj

Profile Name: 30m/s² 30mSec

Test Type: Classical Shock

Run Folder: .\vib Apr 21,2008 09-03-21



Level:	100 %	Block Size:	2048	Elapsed Pulses:	11
Frame Time:	1.365333 Seconds	Control Peak:	27.858192 m/s ²	Control RMS:	3.438375 m/s ²
dT:	0.000667 Seconds	Demand Peak:	29.018564 m/s ²	Demand RMS:	3.563255 m/s ²
Pulse Type:	Half Sine	Amplitude:	30.000000 m/s ²	Full Level Elapsed Pulses:	3
				Remaining Pulses:	7

Data saved at 09:04:22 AM, Monday, April 21, 2008 Report created at 09:04:22 , lunedì, aprile 21, 2008

RFK/S 600 15K - Vibration and shock test report

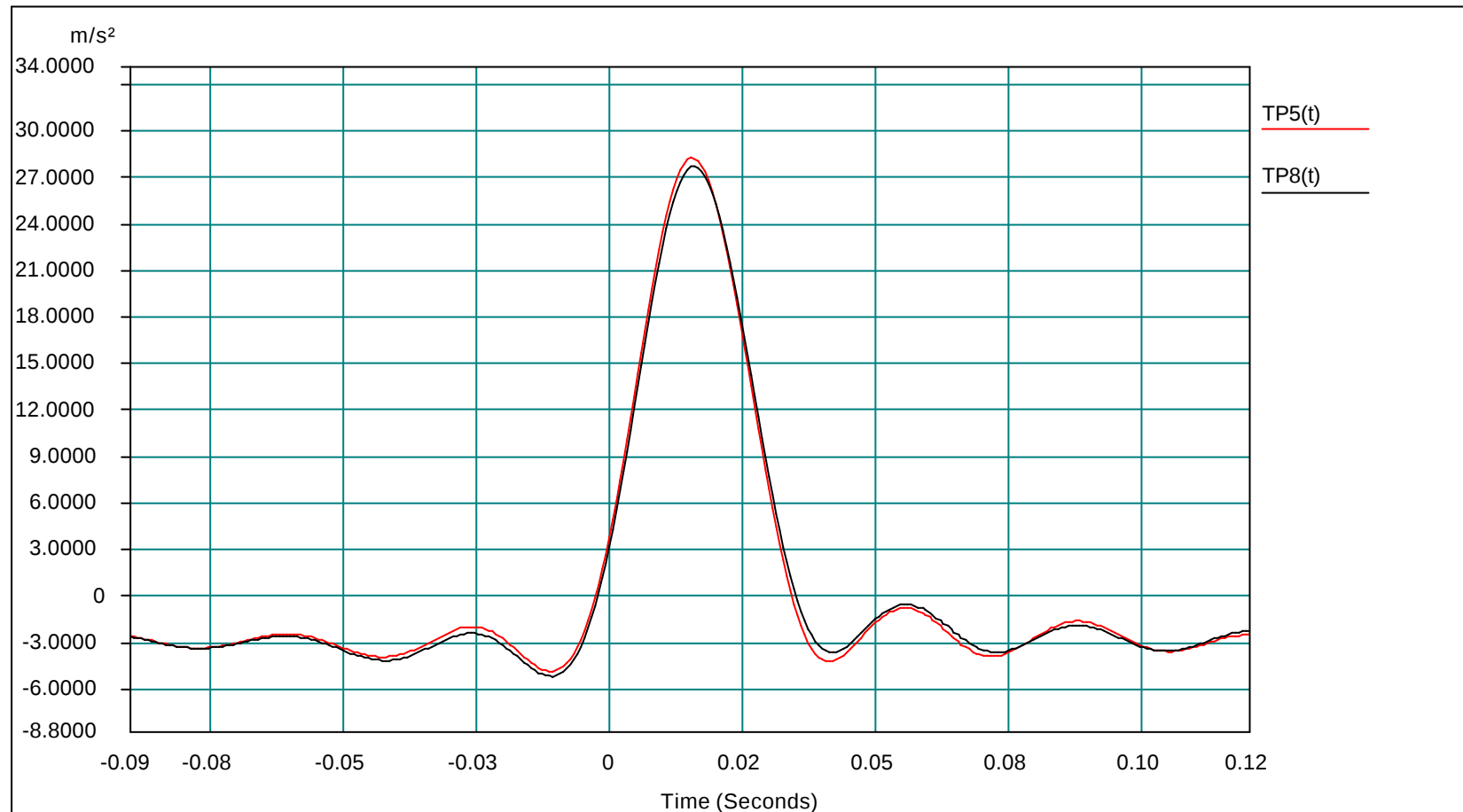
RUN 5 Fairfield VERTICAL SHOCK Apr 21,2008 09-04-22

Project File Name: RUN5.prj

Profile Name: 30m/s² 30mSec

Test Type: Classical Shock

Run Folder: .\vib Apr 21,2008 09-03-21



Level:	100 %	Block Size:	2048	Elapsed Pulses:	11
Frame Time:	1.365333 Seconds	Control Peak:	27.858192 m/s ²	Control RMS:	3.438375 m/s ²
dT:	0.000667 Seconds	Demand Peak:	29.018564 m/s ²	Demand RMS:	3.563255 m/s ²
Pulse Type:	Half Sine	Amplitude:	30.000000 m/s ²	Full Level Elapsed Pulses:	3
				Remaining Pulses:	7

Data saved at 09:04:22 AM, Monday, April 21, 2008 Report created at 09:04:22 , lunedì, aprile 21, 2008

RFK/S 600 15K - Vibration and shock test report

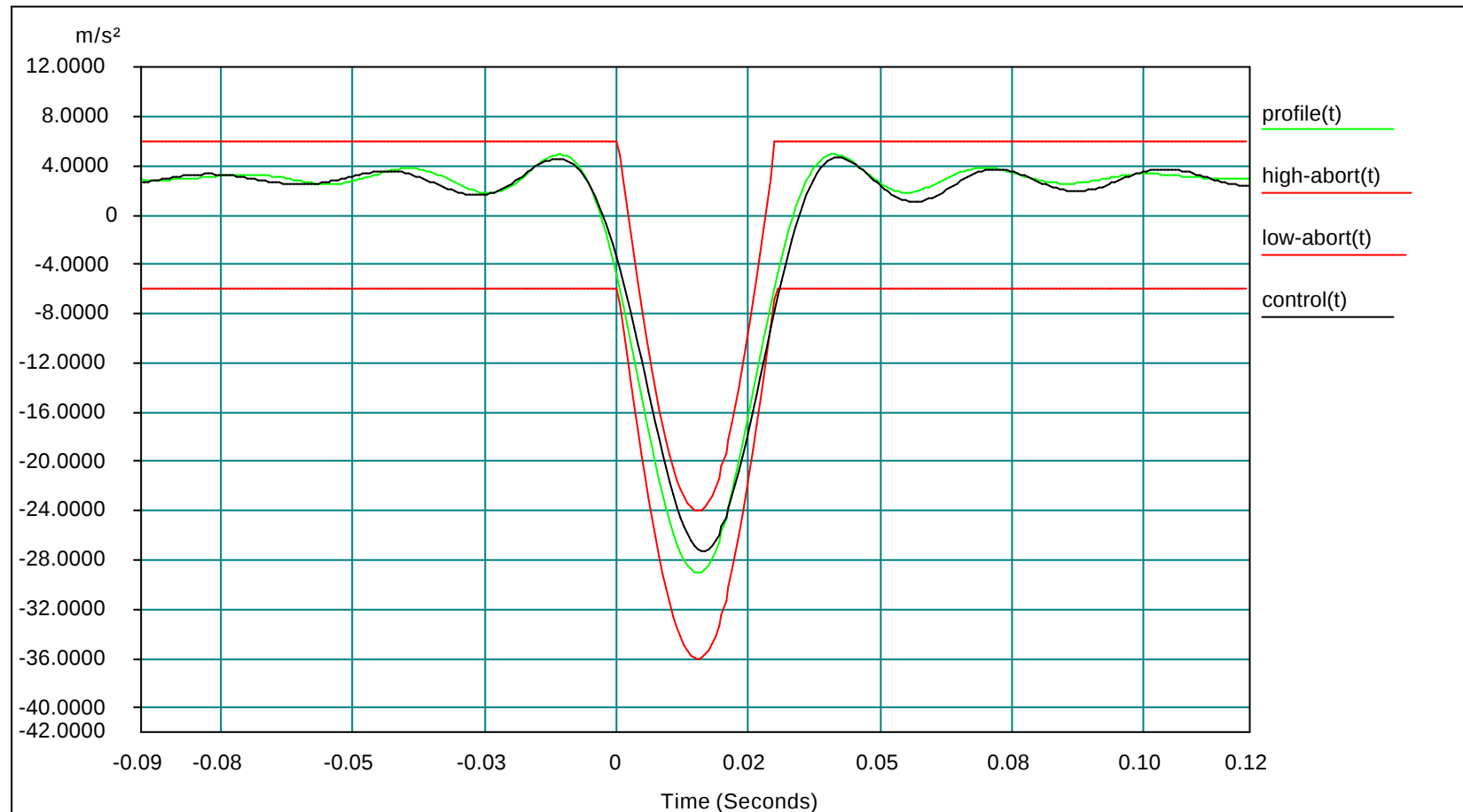
RUN 5 Fairfield VERTICAL SHOCK Apr 21,2008 09-04-47

Project File Name: RUN5.prj

Profile Name: 30m/s² 30mSec

Test Type: Classical Shock

Run Folder: \vib Apr 21,2008 09-03-21



Level:	100 %	Block Size:	2048	Elapsed Pulses:	16
Frame Time:	1.365333 Seconds	Control Peak:	27.220629 m/s ²	Control RMS:	3.371085 m/s ²
dT:	0.000667 Seconds	Demand Peak:	29.018564 m/s ²	Demand RMS:	3.563255 m/s ²
Pulse Type:	Half Sine	Amplitude:	30.000000 m/s ²	Full Level Elapsed Pulses:	4
				Remaining Pulses:	2

Data saved at 09:04:47 AM, Monday, April 21, 2008 Report created at 09:04:47 , lunedì, aprile 21, 2008

RFK/S 600 15K - Vibration and shock test report

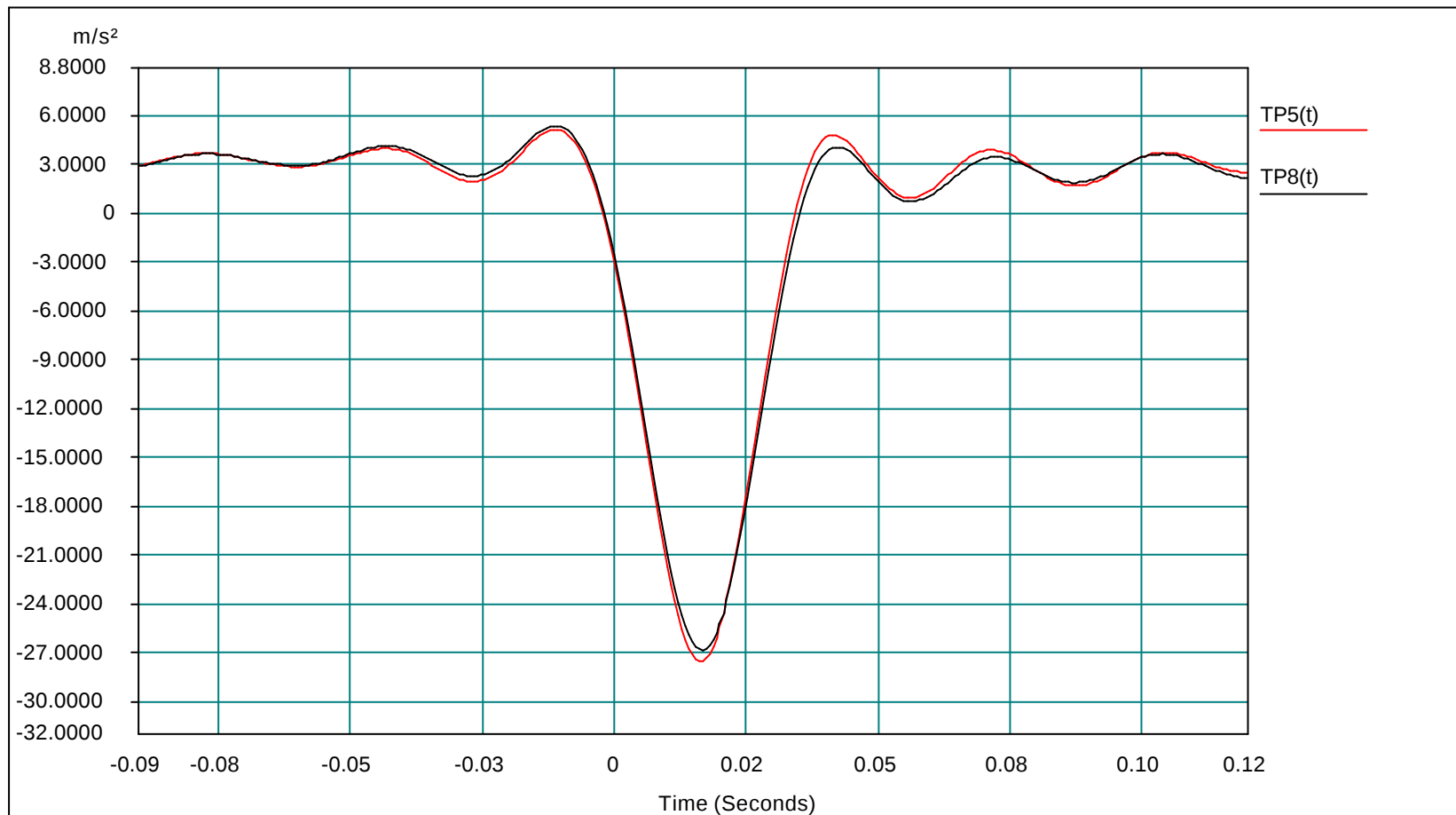
RUN 5 Fairfield VERTICAL SHOCK Apr 21,2008 09-04-47

Project File Name: RUN5.prj

Profile Name: 30m/s² 30mSec

Test Type: Classical Shock

Run Folder: \vib Apr 21,2008 09-03-21



Level:	100 %	Block Size:	2048	Elapsed Pulses:	16
Frame Time:	1.365333 Seconds	Control Peak:	27.220629 m/s ²	Control RMS:	3.371085 m/s ²
dT:	0.000667 Seconds	Demand Peak:	29.018564 m/s ²	Demand RMS:	3.563255 m/s ²
Pulse Type:	Half Sine	Amplitude:	30.000000 m/s ²	Full Level Elapsed Pulses:	4
				Remaining Pulses:	2

Data saved at 09:04:47 AM, Monday, April 21, 2008 Report created at 09:04:47 , lundi, aprile 21, 2008

RFK/S 600 15K - Vibration and shock test report

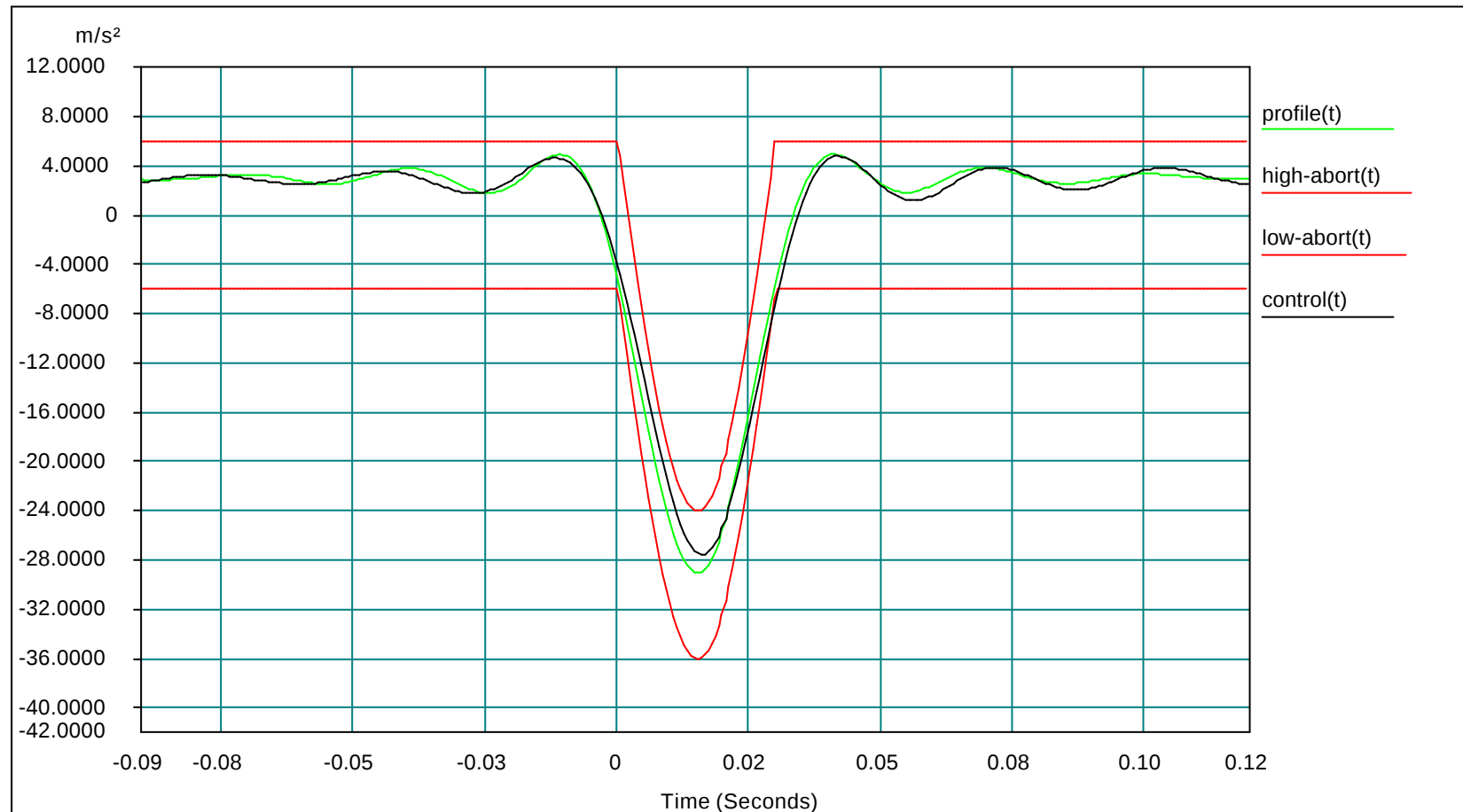
RUN 5 Fairfield VERTICAL SHOCK Apr 21,2008 09-04-52

Project File Name: RUN5.prj

Profile Name: 30m/s² 30mSec

Test Type: Classical Shock

Run Folder: .\vib Apr 21,2008 09-03-21



Level:	100 %	Block Size:	2048	Elapsed Pulses:	17
Frame Time:	1.365333 Seconds	Control Peak:	27.564024 m/s ²	Control RMS:	3.417632 m/s ²
dT:	0.000667 Seconds	Demand Peak:	29.018564 m/s ²	Demand RMS:	3.563255 m/s ²
Pulse Type:	Half Sine	Amplitude:	30.000000 m/s ²	Full Level Elapsed Pulses:	5
				Remaining Pulses:	1

Data saved at 09:04:52 AM, Monday, April 21, 2008 Report created at 09:04:52 , lunedì, aprile 21, 2008

RFK/S 600 15K - Vibration and shock test report

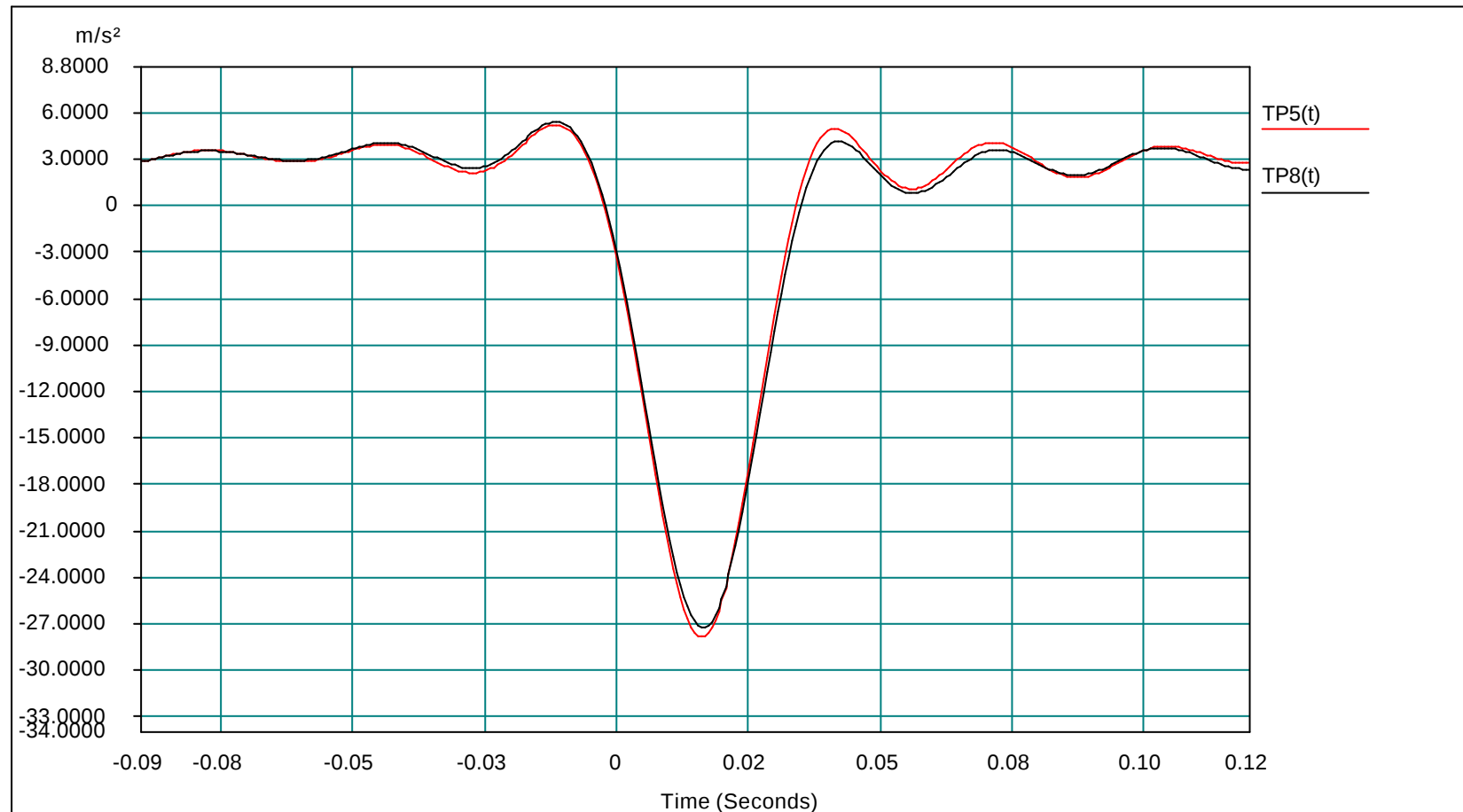
RUN 5 Fairfield VERTICAL SHOCK Apr 21,2008 09-04-52

Project File Name: RUN5.prj

Profile Name: 30m/s² 30mSec

Test Type: Classical Shock

Run Folder: .\vib Apr 21,2008 09-03-21



Level:	100 %	Block Size:	2048	Elapsed Pulses:	17
Frame Time:	1.365333 Seconds	Control Peak:	27.564024 m/s ²	Control RMS:	3.417632 m/s ²
dT:	0.000667 Seconds	Demand Peak:	29.018564 m/s ²	Demand RMS:	3.563255 m/s ²
Pulse Type:	Half Sine	Amplitude:	30.000000 m/s ²	Full Level Elapsed Pulses:	5
				Remaining Pulses:	1

Data saved at 09:04:52 AM, Monday, April 21, 2008 Report created at 09:04:52 , lundi, aprile 21, 2008

RFK/S 600 15K - Vibration and shock test report

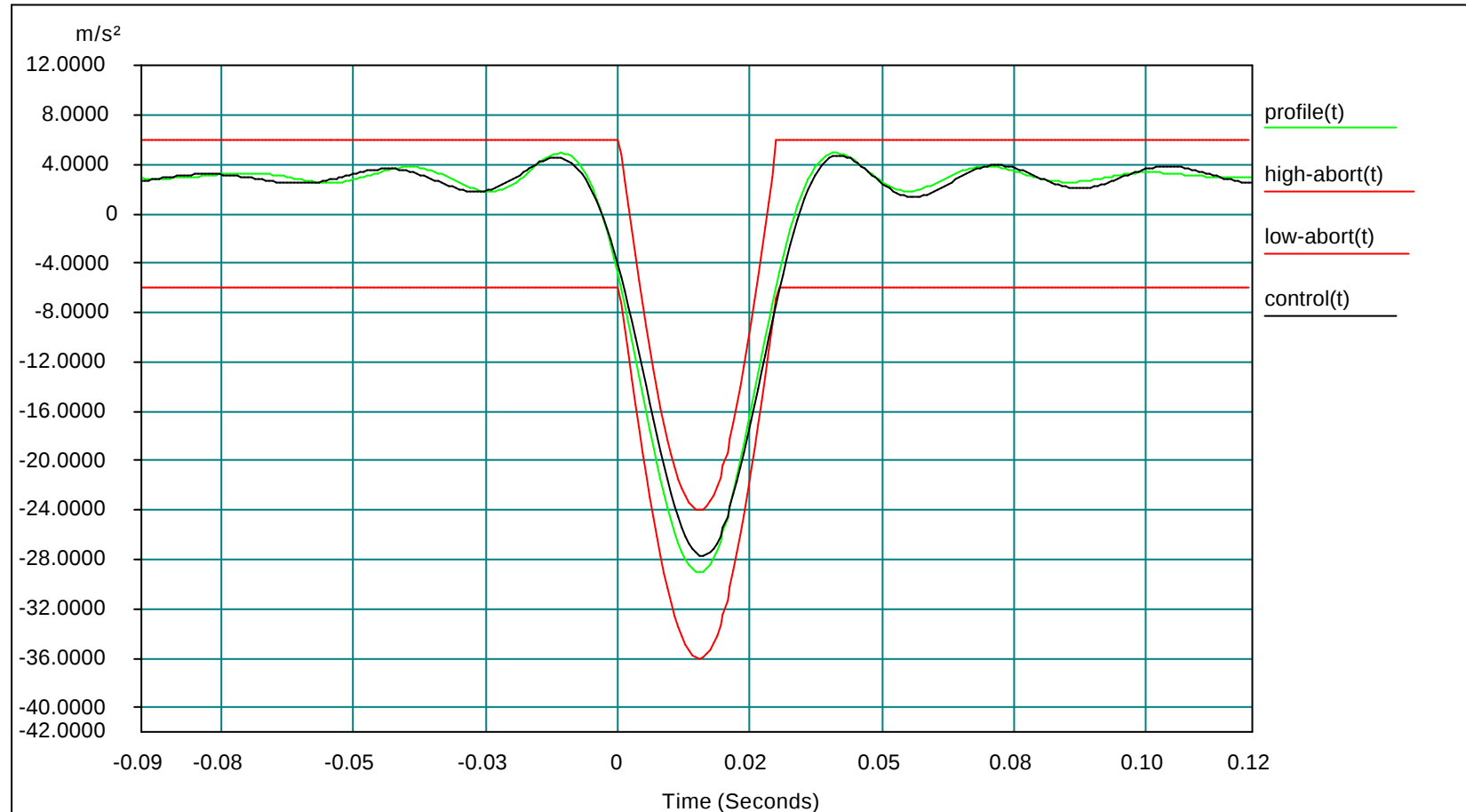
RUN 5 Fairfield VERTICAL SHOCK Apr 21,2008 09-04-54

Project File Name: RUN5.prj

Profile Name: 30m/s² 30mSec

Test Type: Classical Shock

Run Folder: \vib Apr 21,2008 09-03-21



Level:	100 %	Block Size:	2048	Elapsed Pulses:	18	
Frame Time:	1.365333 Seconds	Control Peak:	27.701353 m/s ²	Control RMS:	3.434677 m/s ²	Full Level Elapsed Pulses: 6
dT:	0.000667 Seconds	Demand Peak:	29.018564 m/s ²	Demand RMS:	3.563255 m/s ²	Remaining Pulses: 0
Pulse Type:	Half Sine	Amplitude:	30.000000 m/s ²			

Data saved at 09:04:54 AM, Monday, April 21, 2008 Report created at 09:04:54 , lunedì, aprile 21, 2008

RFK/S 600 15K - Vibration and shock test report

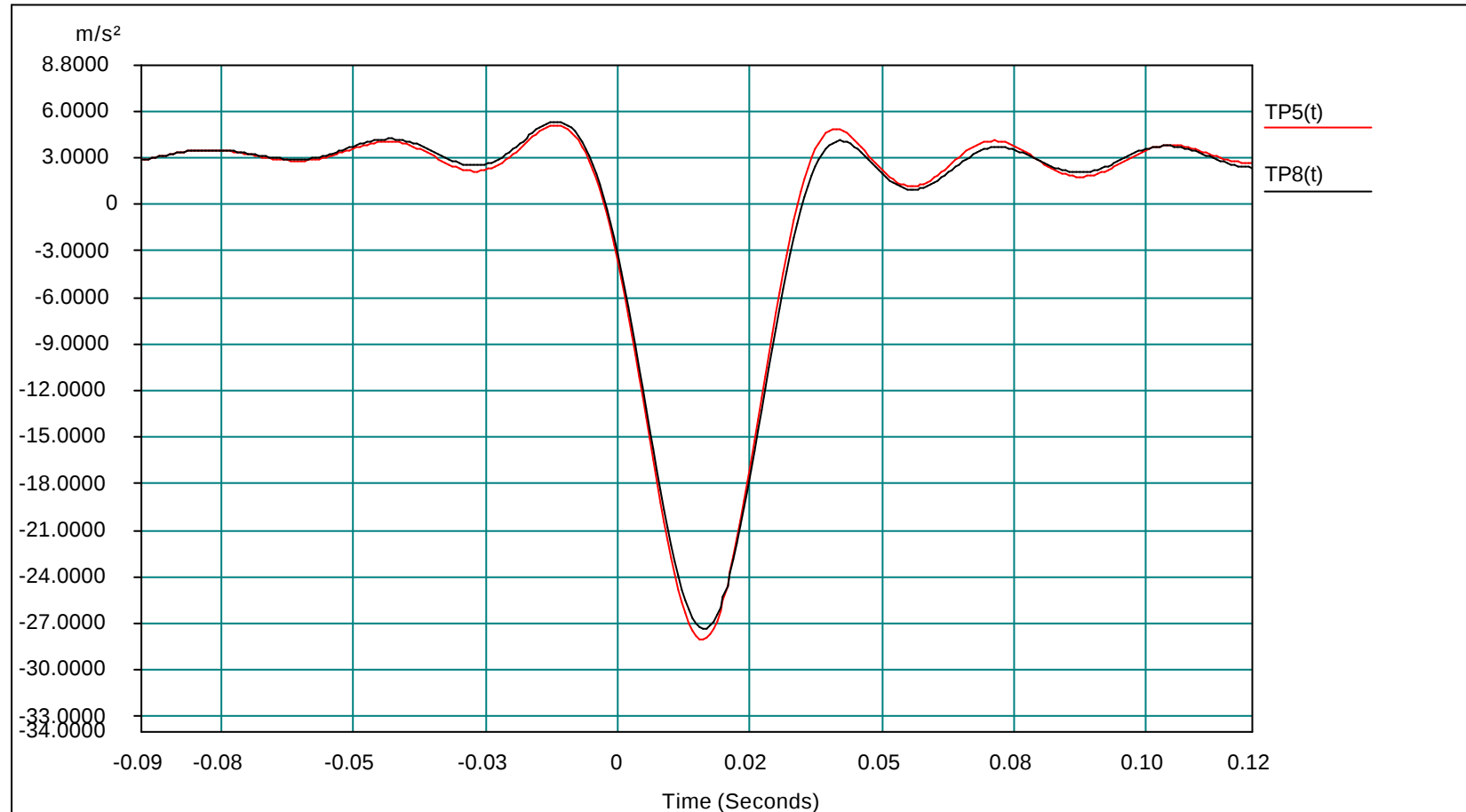
RUN 5 Fairfield VERTICAL SHOCK Apr 21,2008 09-04-54

Project File Name: RUN5.prj

Profile Name: 30m/s² 30mSec

Test Type: Classical Shock

Run Folder: .\vib Apr 21,2008 09-03-21



Level:	100 %	Block Size:	2048	Elapsed Pulses:	18	
Frame Time:	1.365333 Seconds	Control Peak:	27.701353 m/s ²	Control RMS:	3.434677 m/s ²	Full Level Elapsed Pulses: 6
dT:	0.000667 Seconds	Demand Peak:	29.018564 m/s ²	Demand RMS:	3.563255 m/s ²	Remaining Pulses: 0
Pulse Type:	Half Sine	Amplitude:	30.000000 m/s ²			
Data saved at 09:04:54 AM, Monday, April 21, 2008 Report created at 09:04:54 , lunedì, aprile 21, 2008						

RFK/S 600 15K - Vibration and shock test report

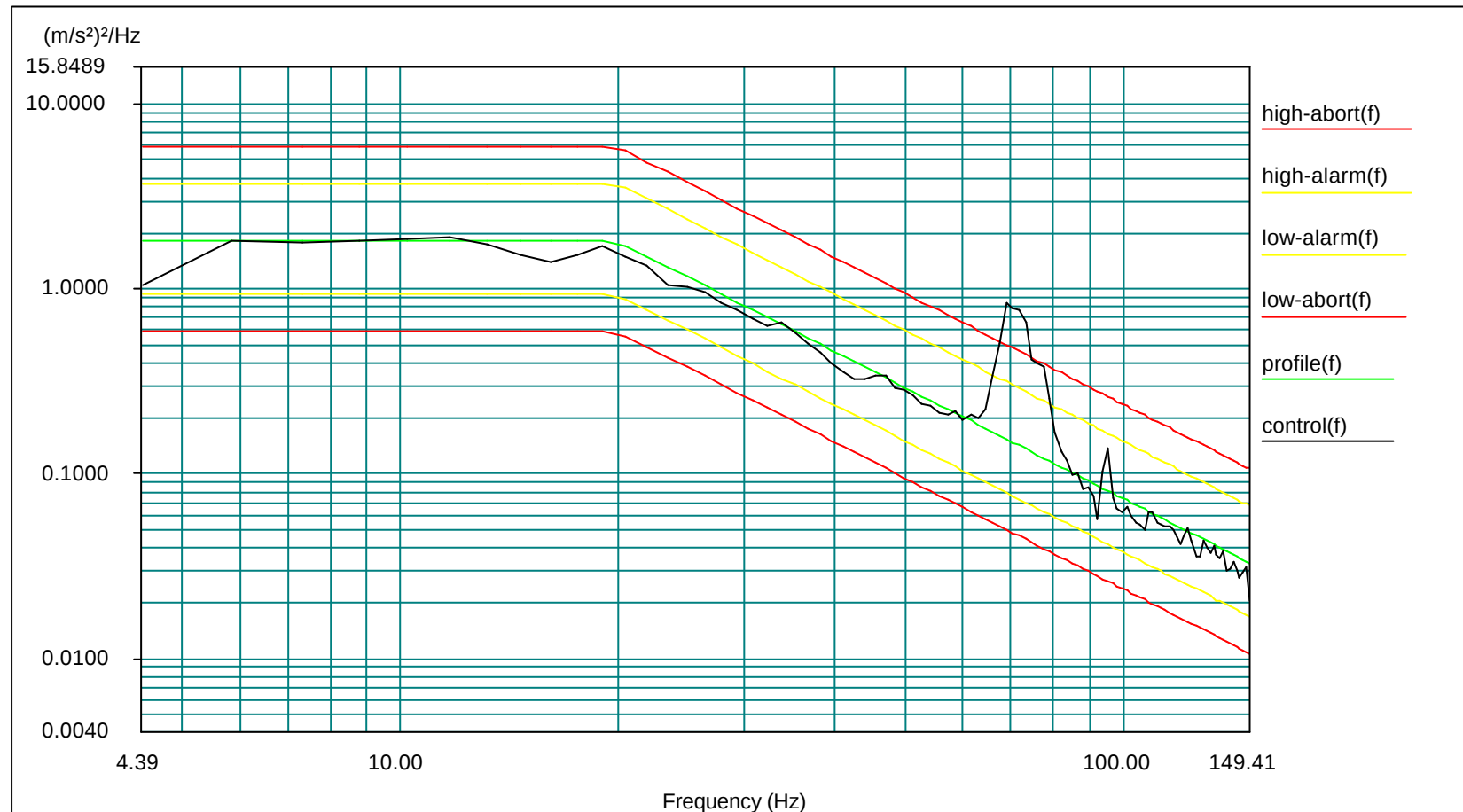
RUN 6 Fairfield VERTICAL LONG LIFE

Project File Name: RUN6.prj

Profile Name: Cat. 1 - Class B < 500 kg

Test Type: Random

Run Folder: .\RunDefault Apr 21,2008 09-06-23



Level: -0.500001 dB

Control RMS: 7.887510 m/s^2 Full Level Elapsed Time: 00:06:00

Demand RMS: 7.393082 m/s^2 Remaining Time: 04:53:59

Lines: 100

DOF: 154

Frame Time: 0.682667 Seconds

dF: 1.464844 Hz

Data saved at 09:14:24 AM, Monday, April 21, 2008 Report created at 09:14:24 , lunedì, aprile 21, 2008

RFK/S 600 15K - Vibration and shock test report

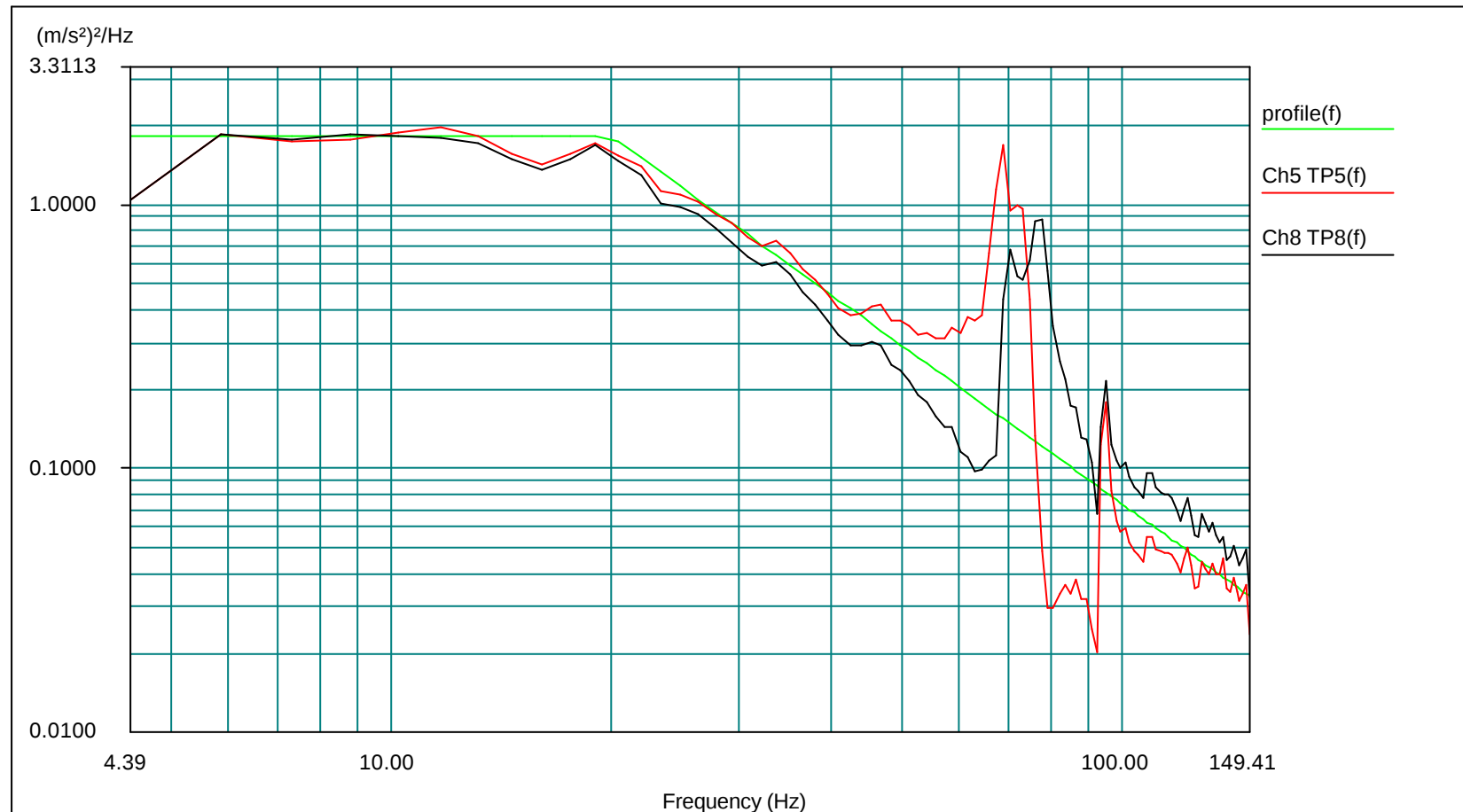
RUN 6 Fairfield VERTICAL LONG LIFE

Project File Name: RUN6.prj

Profile Name: Cat. 1 - Class B < 500 kg

Test Type: Random

Run Folder: .\RunDefault Apr 21,2008 09-06-23



Level: -0.500001 dB

Control RMS: 7.887510 m/s² Full Level Elapsed Time: 00:06:00

Demand RMS: 7.393082 m/s² Remaining Time: 04:53:59

Lines: 100 Frame Time: 0.682667 Seconds

DOF: 154 dF: 1.464844 Hz

Data saved at 09:14:24 AM, Monday, April 21, 2008 Report created at 09:14:24 , lundi, aprile 21, 2008

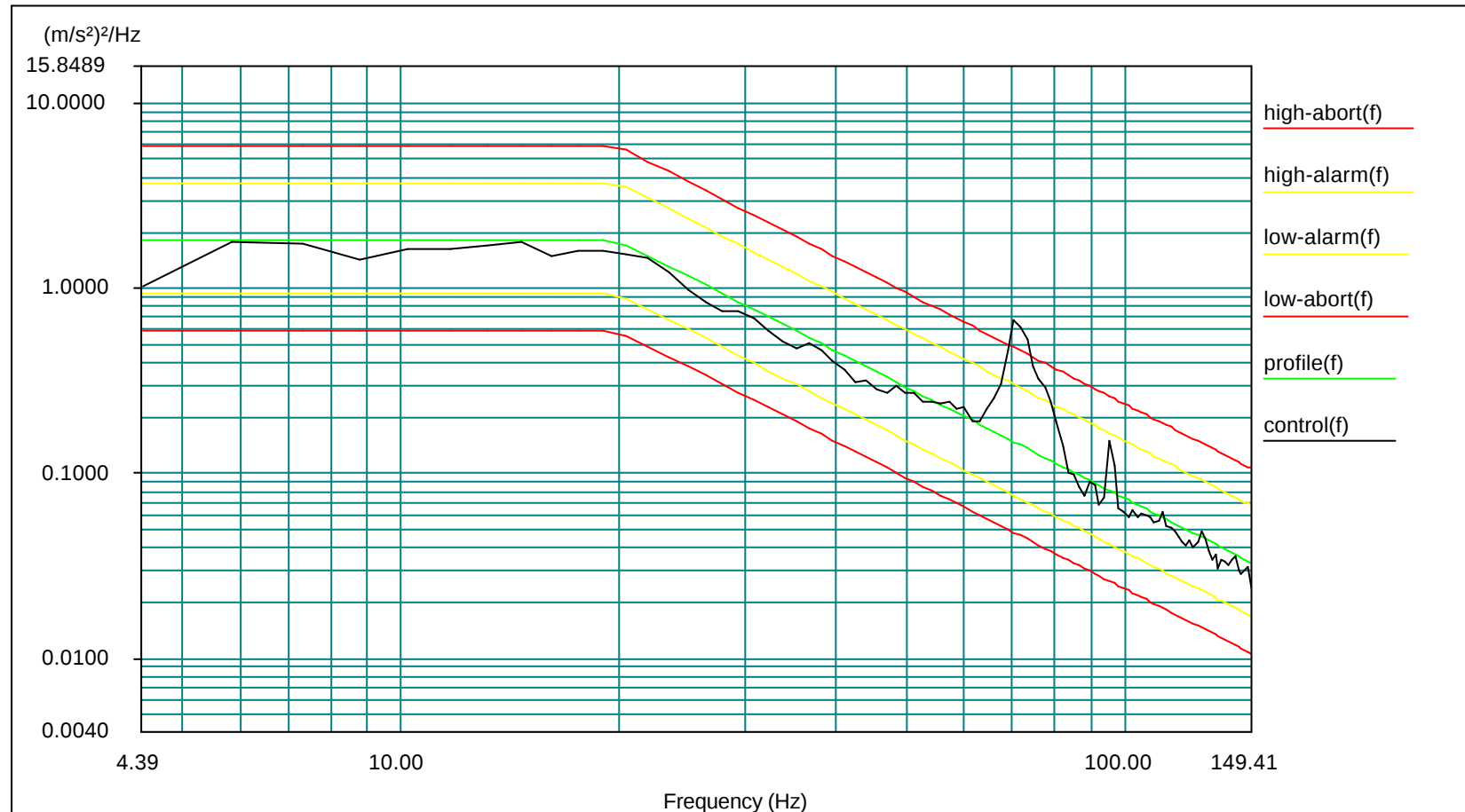
RUN 6 Fairfield VERTICAL LONG LIFE

Project File Name: RUN6.prj

Profile Name: Cat. 1 - Class B < 500 kg

Test Type: Random

Run Folder: .\RunDefault Apr 21,2008 09-06-23



Level: -0.500001 dB

Control RMS: 7.687793 m/s^2 Full Level Elapsed Time: 05:00:00

Demand RMS: 7.393082 m/s^2 Remaining Time: 00:00:00

Lines: 100 Frame Time: 0.682667 Seconds

DOF: 154 dF: 1.464844 Hz

Data saved at 02:08:25 PM, Monday, April 21, 2008 Report created at 02:08:25 , lunedì, aprile 21, 2008

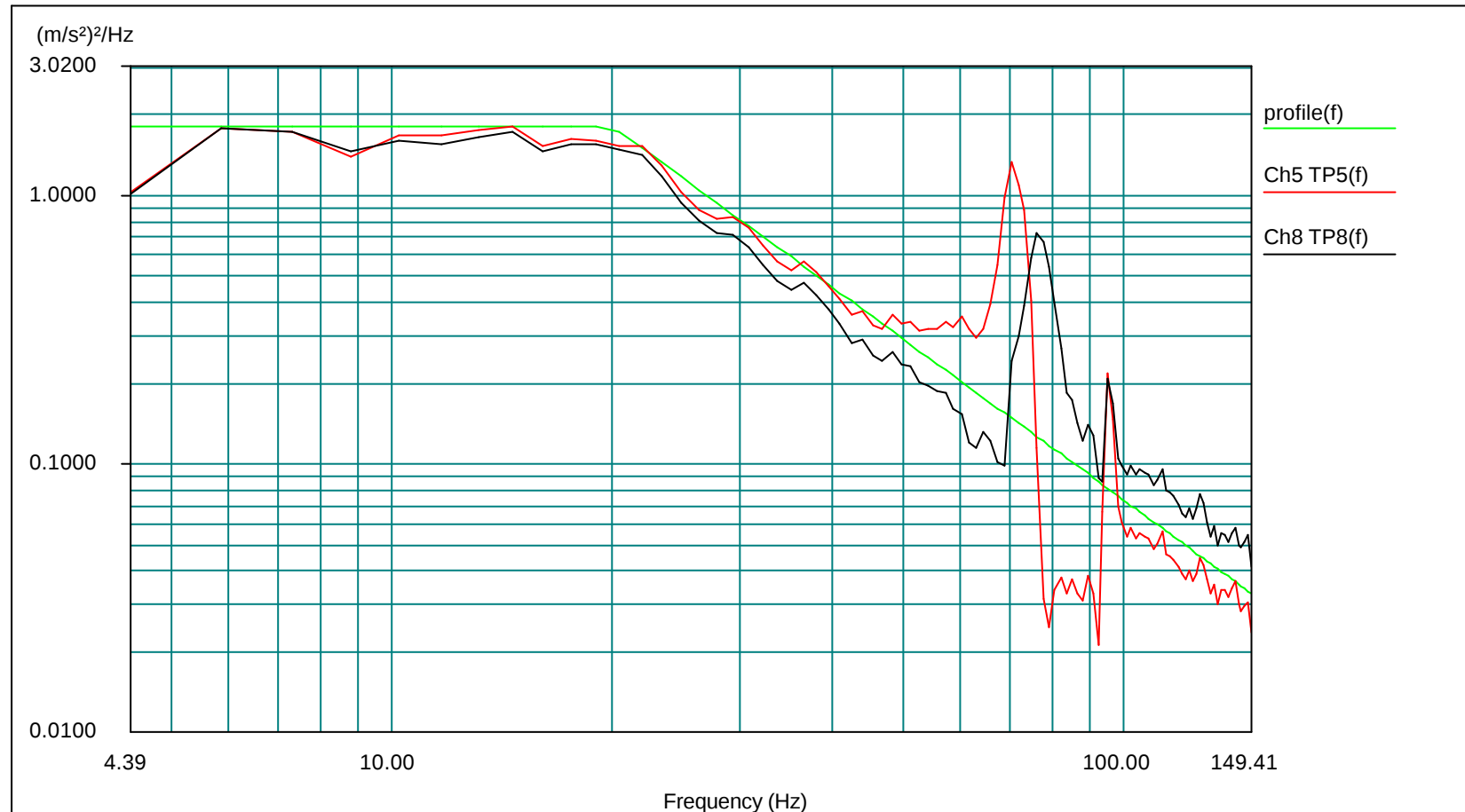
RUN 6 Fairfield VERTICAL LONG LIFE

Project File Name: RUN6.prj

Profile Name: Cat. 1 - Class B < 500 kg

Test Type: Random

Run Folder: .\RunDefault Apr 21,2008 09-06-23



Level: -0.500001 dB

Control RMS: 7.687793 m/s² Full Level Elapsed Time: 05:00:00

Demand RMS: 7.393082 m/s² Remaining Time: 00:00:00

Lines: 100 Frame Time: 0.682667 Seconds

DOF: 154 dF: 1.464844 Hz

Data saved at 02:08:24 PM, Monday, April 21, 2008 Report created at 02:08:25 , lunedì, aprile 21, 2008