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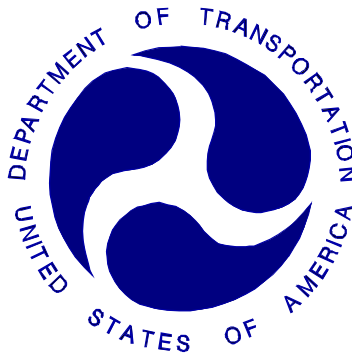
**NEW CAR ASSESSMENT PROGRAM (NCAP)
FRONTAL BARRIER IMPACT TEST**

MITSUBISHI MOTOR MFG. OF AMERICA
2002 MITSUBISHI ECLIPSE
3-DOOR HATCHBACK

NHTSA NUMBER: M25600

VERIDIAN TEST NUMBER: 8642-NCAP-01

VERIDIAN ENGINEERING
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December 18, 2001

FINAL REPORT

PREPARED FOR:

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16. Abstract A frontal load cell barrier test of a 2002 Mitsubishi Eclipse 3-Door Hatchback was performed at Veridian Engineering crash test facility in Buffalo, New York, on December 18, 2001. The impact velocity was 56.0 kph and the temperature at the barrier face was 21EC. The maximum post-test vehicle crush was 462 mm. The test vehicle was equipped with 3-point restraint systems, knee bolsters, and airbags at both the driver and right outboard passenger seating positions. With respect to FMVSS 208 "Occupant Crash Protection - Injury Criteria" both the driver and passenger appeared to comply with head, chest, and femur requirements.					
ATD Position	HIC	Clip (g's)	Chest Disp (mm)	Left Femur (N)	Right Femur (N)
Driver (061)	389.5	51.8	36.1	4496.2	3069.1
Passenger (064)	439.5	49.4	32.8	2843.9	4329.2
17. Key Words 56 kph Frontal Barrier Impact test New Car Assessment Program (NCAP)				18. Distribution Statement Copies of this report are available from: NHTSA Technical Reference Division National Highway Traffic Safety Admin. 400 Seventh St., SW, Room 5108 Washington, DC 20590	
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SECTION 1

PURPOSE AND SUMMARY OF TEST

1.1 PURPOSE

This 56.0 kph frontal barrier impact test is part of the Vehicle Barrier Impact Testing Program sponsored by the National Highway Traffic Safety Administration (NHTSA) under Contract No. DTNH22-01-D-32005. The purpose of this test was to obtain vehicle crashworthiness and occupant restraint system performance data for an impact speed in excess of the current 48.3 kph requirements.

The 56.0 kph frontal barrier impact test was conducted in accordance with the Office of Crashworthiness Standards Laboratory Indicant Test procedure.

1.2 TEST PROCEDURE

This 56.3-km/h frontal barrier impact test was conducted in accordance with the Office of Crashworthiness Standards (OCS) New Car Assessment Program (NCAP) Laboratory Indicant Test Procedure, dated December 1999. Data was obtained indicant of FMVSS 208, "Occupant Crash Protection"; FMVSS 212, "Windshield Retention"; FMVSS 219, "Windshield Zone Intrusion (Partial)"; and FMVSS 301 "Fuel System Integrity" performance. Procedures for receiving, inspection testing and reporting of test results are described in the test procedures and are not repeated in this report.

One real-time camera and 16 high-speed cameras were used to document the frontal barrier impact event. Camera locations and other pertinent camera information can be found in this report.

Two Part 572E, 50th percentile male anthropomorphic test devices (ATDs), were placed in the driver and right-front passenger seating positions according to dummy placement instructions specified in the Laboratory Indicant Test Procedure.

Both ATDs were fully instrumented with nine accelerometer array head, chest and pelvis triaxial accelerometers, chest displacement potentiometers, upper neck transducers, right/left femur load cells, left and right knee sliders, and lower leg instrumentation. Seat belt load cells were also on the driver's and passenger's lap and shoulder belts to measure dummy torso and pelvic section loading. The driver (position 1) ATD (Serial No. 061) and the right-front passenger (position 2) ATD (Serial No.064) were calibrated previous to this test. Certification details, along with instrumentation calibration data, are found in Appendix C.

The vehicle, occupant, camera and measurement data are presented in Section 2. Appendix A contains the still photograph prints. The 149 channels of data were recorded on an on-board data acquisition system. Appendix B contains the vehicle, load cell barrier and dummy response data traces. Appendix C contains Load Cell Barrier information. Appendix D contains the instrumentation data channel assignments. Appendix E contains the dummy calibration data and Appendix F contains the owner's manual instructions for the occupant seating and restraint systems.

1.3 SUMMARY OF FRONTAL BARRIER IMPACT TEST

A load cell barrier consisting of 36 load cells was impacted by a 2002 Mitsubishi Eclipse 3-Door Hatchback at a velocity of 56.0 kph. The test was performed at Veridian Engineering on December 18, 2001. Pre- and post-test photographs of the vehicle and dummies can be found in Appendix A.

The occupant data is summarized below.

	HIC	Clip (g)	Chest Disp. (mm)	Left Femur (N)	Right Femur (N)	Belt Spool (mm)	Belt Stretch (mm/50 mm)
Driver ATD	389.5	51.8	36.1	4496.2	3069.1	-	0.37
Passenger ATD	439.5	49.4	32.8	2843.9	4329.2	-	0.77

There was 100 percent windshield retention and no intrusion into the protected zone of the windshield during the event. There was no Stoddard solvent leakage after the event or during any phase of the static rollover.

The maximum vehicle static crush was 462 mm and both the driver and passenger side doors remained closed during the impact event and were operable after the impact.

The driver's visible contact points were as follows: the face to the left of the center of the airbag; the back of the head to the center of the headrest, the chest to the airbag, and the left and right knees to the knee bolster. The passenger's visible contact points were as follows: the face to the center of the airbag, the top of the head to the right side header; the back of the head to the center of the headrest, the chest to the airbag, and the left and right knees to the knee bolster.

The 2002 Mitsubishi Eclipse 3-Door Hatchback did not exceed the requirements of FMVSS 208, FMVSS 212, FMVSS 219, and FMVSS 301. Data pertaining to these standards are presented in the data sheets.

SECTION 2

GENERAL TEST AND VEHICLE PARAMETER DATA

DATA SHEET NO. 1 CRASH TEST SUMMARY

Vehicle NHTSA No.:	M25600	Test Mode:	56.3 kph Frontal Barrier
Test Date:	December 18, 2001	Time:	14:02
		Temperature:	21 °C
Vehicle Make/Model/Body Style:	2002 Mitsubishi Eclipse 3-Door Hatchback		
Vehicle Test Weight:	1512.0	kg	
Vehicle/Barrier Impact Angle:	0	°	
Impact Velocity:	56.0	kph	
Maximum Static Crush:	462	mm	
Vehicle Rebound:	434	mm	
 <u>DUMMIES:</u>			
		<u>DRIVER</u>	<u>PASSENGER</u>
Type:		572E	572E
Restraint System:		Seatbelt, Airbag, Knee Bolster	Seatbelt, Airbag, Knee Bolster
Number of Data Channels:	149		
Number of Cameras:	1	Real Time	
	16	High Speed	
 <u>DOOR OPENING DATA:</u>			
	Closed/Operable	- Left Front	
	Closed/Operable	- Right Front	
 Front Seat(s) Data:			
		<u>DRIVER</u>	<u>PASSENGER</u>
Seat Track Failure: (mm of shift)		0	0
Seat Back Failure:		None	None
 <u>VISIBLE DUMMY CONTACT POINTS:</u>			
		<u>DRIVER</u>	<u>PASSENGER</u>
Head:		The face to the left of the center of the airbag; The back of the head to the center of the headrest.	The face to the center of the airbag; The top of the head to the right side header; The back of the head to the center of the headrest.
Abdomen:		-	-
Chest:		Airbag	Airbag
Knees:		Left Knee to Knee Bolster; Right Knee to Knee Bolster	Left Knee to Knee Bolster; Right Knee to Knee Bolster

DATA SHEET NO. 2 GENERAL TEST AND VEHICLE PARAMETER DATA

TEST VEHICLE INFORMATION:

Year/Make/Model/Body Style: 2002 Mitsubishi Eclipse 3-Door Hatchback

NHTSA No. : M25600 ; VIN: 4A3AC34G32E050432 ; Color: Blue

Engine Data: 4 cylinders; - CID; 2.4 Liters; - cc

Placement: - Longitudinal or In-Line; X Transverse or Lateral

Transmission Data: 5 speeds; X Manual; - Automatic; X Overdrive

Final Drive: - Rear Wheel Drive; X Front Wheel Drive; - Four Wheel Drive

Major Options: X A/C; X Pwr.Strg.; X Pwr. Brakes

X Pwr. Windows; X Pwr. Door Locks; X Tilt Wheel

Date Received: 11/29/01 ; Odometer Reading 175 km

Selling Dealer: Cortese Mitsubishi

& Address: 3875 West Henrietta Road Rochester, NY 14623

DATA FROM TIRE VEHICLE'S CERTIFICATION LABEL:

Vehicle Manufactured by: Mitsubishi Motor Mfg. of America

Date of Manufacture 10/2001

GVWR: 1750 kg; GAWR: 1005 kg FRONT; 795 kg REAR

DATA FROM TIRE PLACARD:

Tire Pressure with Maximum Capacity Vehicle Load: 300 kpa FRONT

300 kpa REAR

Recommended Tire Size: P195/65R15

* Recommended Cold Tire Pressure: 220 kpa FRONT; 200 kpa REAR

Size of Tires on Test Vehicle: P195/65R15 ; Manufacturer: Bridgestone

Vehicle Capacity Data:

Type of Front Seats: X Bench; - Bucket; - Split Bench

Number of Occupants: 2 Front; 2 Rear; 4 Total

Vehicle Capacity Weight (VCW) = 300 kg

No. of Occupants x 68.04 kg = 272.16 kg

Rated Cargo/Luggage Weight (RCLW) = 27.84 kg

*Tire pressure used for test

DATA SHEET NO. 2 GENERAL TEST AND VEHICLE PARAMETER DATA (cont.)

WEIGHT OF TEST VEHICLE AS RECEIVED FROM DEALER (with maximum fluids)= UDW:

Right Front =	<u>424.0</u>	kg	Right Rear =	<u>248.0</u>	kg
Left Front =	<u>408.0</u>	kg	Left Rear =	<u>257.0</u>	kg
TOTAL FRONT =	<u>832</u>	kg	TOTAL REAR =	<u>505</u>	kg
TOTAL DELIVERED WEIGHT =	<u>1337.0</u>	kg			
% of Total Front of Vehicle Weight =	<u>62.2%</u>		% of Total Rear Weight =	<u>37.8%</u>	%

CALCULATION OF VEHICLE'S TARGET TEST WEIGHT:

Total Delivered Weight (UDW) =	<u>1337.0</u>	kg
Rated Cargo/Luggage Weight (RCLW) =	<u>27.84</u>	kg
Weight of 2 p.572 Dummies @ 76 each =	<u>152</u>	kg
TARGET TEST WEIGHT =	<u>1516.84</u>	kg

WEIGHT OF TEST VEHICLE WITH TWO DUMMIES AND 23 KG OF CARGO WEIGHT:

Right Front =	<u>448.0</u>	kg	Right Rear =	<u>308.0</u>	kg
Left Front =	<u>448.0</u>	kg	Left Rear =	<u>308.0</u>	kg
TOTAL FRONT =	<u>896.0</u>	kg	TOTAL REAR =	<u>616.0</u>	kg
TOTAL TEST WEIGHT =	<u>1512.0</u>	kg			
% of Total Front Weight =	<u>59.3%</u>	%	% of Total Rear Weight =	<u>40.7%</u>	%
Weight of Ballast Secured in Vehicle Trunk Area =	<u>0</u>	kg			
Vehicle Components Removed for Weight Reduction:	<u>Tail lights, rear interior trim, side mirrors, muffler</u>				

VEHICLE ATTITUDE (all dimension in millimeters):

AS DELIVERED:	RF	<u>712</u>	LF	<u>712</u>	RR	<u>735</u>	LR	<u>727</u>
FULLY LOADED:	RF	<u>701</u>	LF	<u>701</u>	RR	<u>712</u>	LR	<u>705</u>
AS TESTED:	RF	<u>710</u>	LF	<u>710</u>	RR	<u>714</u>	LR	<u>706</u>
Vehicle's Wheel Base:	<u>2570</u>	Mm						
Location of Vehicle's C.G.:	<u>1047</u>	mm rearward of front wheel center.						

FUEL SYSTEM DATA:

Fuel System Capacity From Owner's Manual =	<u>62.0</u>	Liters
Usable Capacity Figure Furnished by COTR =	<u>62.0</u>	Liters
Test Volume Range (92 to 94% of Usable Capacity) =	<u>57.04</u>	to <u>58.28</u> Liters
ACTUAL TEST VOLUME=	<u>57.5</u>	liters (with entire fuel system filled)
Test Fluid Type:	<u>Stoddard Solution</u>	Spec. Grav. = <u>0.764</u>
Kinematic Viscosity =	<u>0.96</u>	centistokes; Color = <u>Orange</u>
Type of Fuel Pump: Electric-	<u>X</u>	Mechanical- <u>-</u>
Does Electric Pump operate with ignition switch "ON" & engine "OFF"	Yes- <u>X</u>	No- <u>-</u>
Details of Fuel System: Filler – right side, behind axle; Tank – center ahead of axle; Lines – inside right frame stiffener		

DATA SHEET NO. 3 POST IMPACT DATA

TYPE OF TEST:

Type of Test: Frontal Barrier Impact Angle: 0°
Test Date: December 18, 2001 Time: 14:02 Temperature: 21 °C
Vehicle NHTSA No.: M25600
Required Impact Velocity Range: 55.5 to 57.1 kph

BARRIER IMPACT VELOCITY: (Speed traps within 5 feet of impact plane.)

Trap No. 1 = 56.0 kph; Trap No. 2 = 56.0 kph
Distance from vehicle to barrier: (1) entering trap = 813 mm
(2) exiting trap = 305 mm

VEHICLE STATIC CRUSH: (mm) (For frontal and rear impacts only.)

Vehicle Length:

Pre-Test	Left = <u>4359</u>	C/L = <u>4462</u>	Right = <u>4359</u>
Post-Test	Left = <u>4030</u>	C/L = <u>4023</u>	Right = <u>3923</u>
Crush	Left = <u>329</u>	C/L = <u>439</u>	Right = <u>436</u>
AVERAGE	= <u>401.33</u> mm		

VEHICLE REBOUND: (From rigid barrier only.)

Distance from front of test vehicle to impact point:

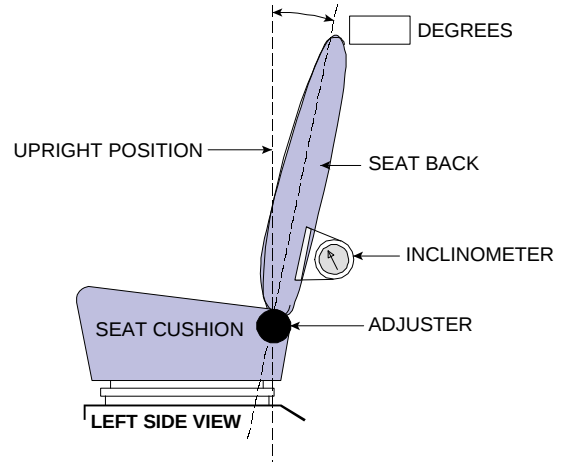
	Left = <u>370</u>	C/L = <u>417</u>	Right = <u>515</u>
AVERAGE	= <u>434</u> mm		

DATA SHEET NO. 4 TEST VEHICLE INFORMATION

VEHICLE IDENTIFICATION:

Model Year : 2002 Vehicle Model: Mitsubishi Eclipse Body Style : 3-Door Hatchback

1. Nominal Design Riding Position for adjustable driver and passenger seat backs. Please describe how to position the inclinometer to measure the seat back angle. Include description of the location of the adjustment latch detent, if applicable.



FRONT SEAT ASSEMBLY

Seat back angle for driver's seat: 34.8

Measurement instructions: Recline seat to the 8th locking position with the most upright position being 1.

Seat back angle for passenger's seat: 34.8

Measurement instructions: Same as the driver's seat

2. Seat Fore and Aft Positioning

Positioning of the driver's seat: Adjust seat to the 12th locking position from the rearmost position 1.

Positioning of the passenger's seat: Same as the driver's seat.

3. Fuel Tank Capacity Data

3.1 A. "Usable Capacity" of the standard equipment fuel tank is 62 liters

B. "Usable Capacity" of the optional equipment fuel tank is - liters

C. "Usable Capacity" of the vehicle(s) used for certification testing to requirements of FMVSS 301 = 62 liters

3.2 Amount of Stoddard solvent added to vehicle(s) used for certification test(s) = 57.5 liters

3.3 Is vehicle equipped with electric fuel pump? Yes- X ; No- -

If YES, explain the vehicle operating conditions under which the fuel pump will pump fuel.

The fuel pump will operate when the ignition is on (engine running) and will stop when the ignition is off.

DATA SHEET NO. 4 TEST VEHICLE INFORMATION (cont.)

4. STEERING COLUMN ADJUSTMENTS:

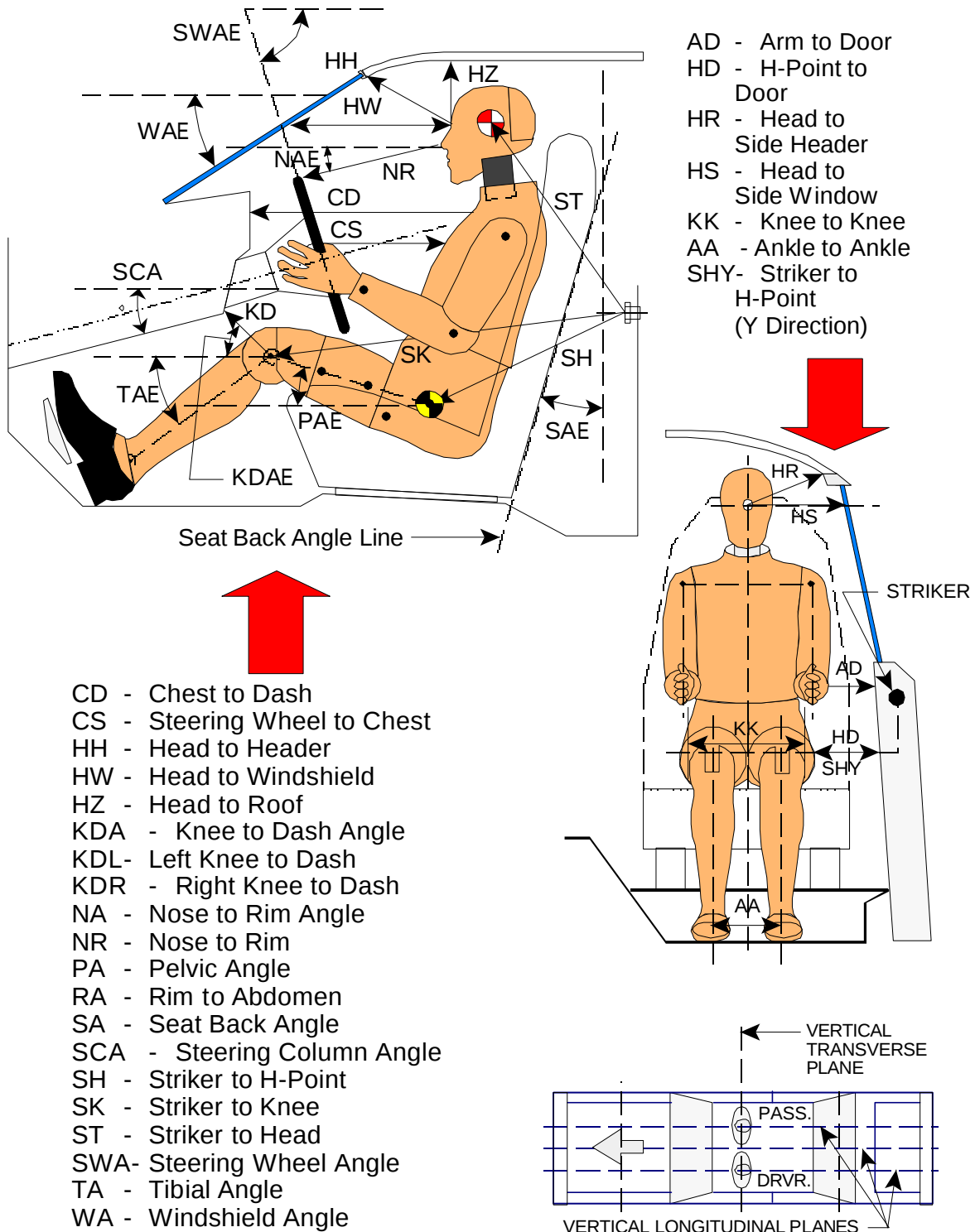
Steering wheel and column adjustments are made so that the steering wheel hub is at the geometric center of the locus it describes when it is moved through its full range of driving positions. If the tested vehicle has any of these adjustments, does your company use any specific procedures to determine the geometric center.

Operational Instructions: Adjust steering column to the third detent with the lowest position
numbered 1.

5. SEAT BELT UPPER ANCHORAGE

Nominal design riding position: Adjust to the lowest locking position.

DATA SHEET NO. 5 FRONT SEAT DUMMY POSITIONING MEASUREMENTS IN VEHICLE
DUMMY MEASUREMENT FOR FRONT SEAT PASSENGERS



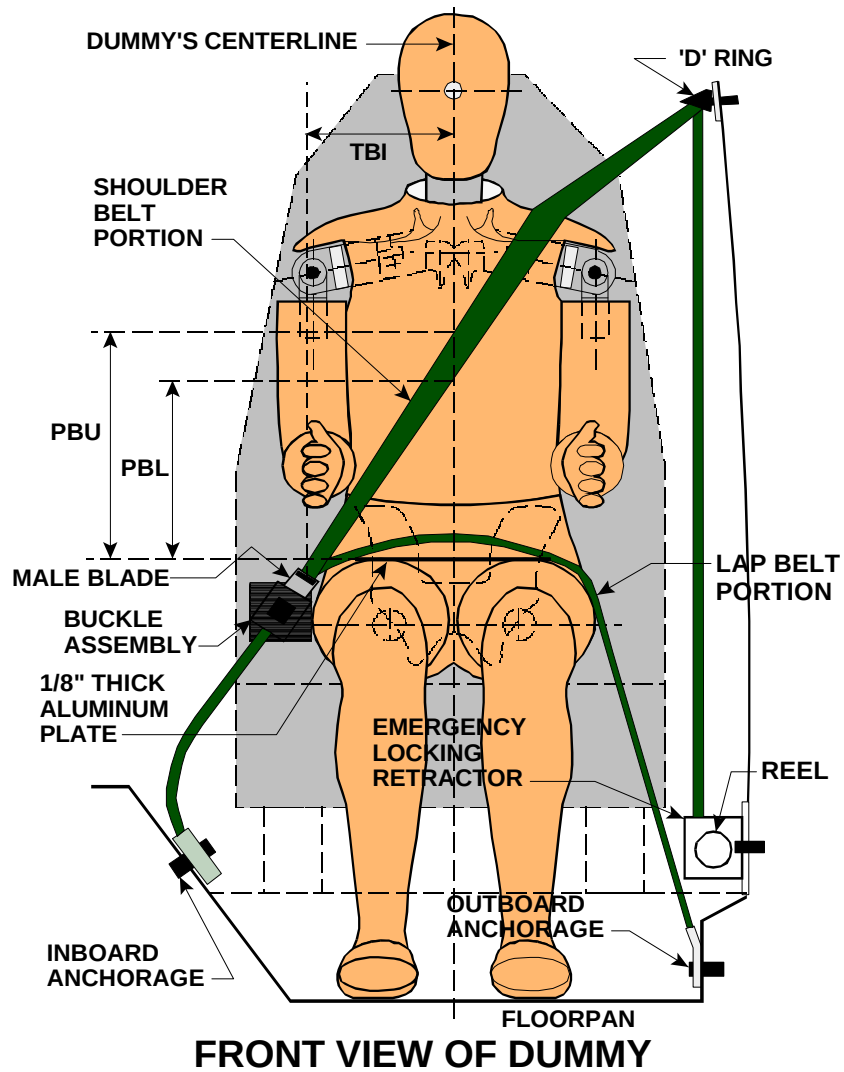
DATA SHEET NO. 5 FRONT SEAT DUMMY POSITIONING MEASUREMENTS IN VEHICLE (cont.)

	DRIVER (Serial #061)			PASS. (Serial #064)		
WA ^o	24.3 deg.			N/A		
SWA ^o	72 deg.			N/A		
SCA ^o	18 Deg.			N/A		
SA ^o	33.5 deg.			33.8 deg.		
HZ	161			164		
HH	405			390		
HW	732			728		
HR	180			186		
NR	383	Angle	-7 deg.	N/A		
CD	591			523		
CS	306			N/A		
RA	197			N/A		
KDL	195	Angle (KDA)	29 deg.	178		
KDR	193			179	Angle (KDA)	30 deg.
PA ^o	33.1 deg.			22.4 deg.		
TA ^o	40.6 deg.			33.6 deg.		
KK	265			215		
AA	285			230		
ST	490	Angle	35 deg.	490	Angle	32 deg.
SK	820	Angle	100 deg.	830	Angle	100 deg.
SH	510	Angle	123 deg.	515	Angle	120 deg.
SHY	245			245		
HS	295			298		
HD	122			126		
AD	111			115		

Dimensions in millimeters

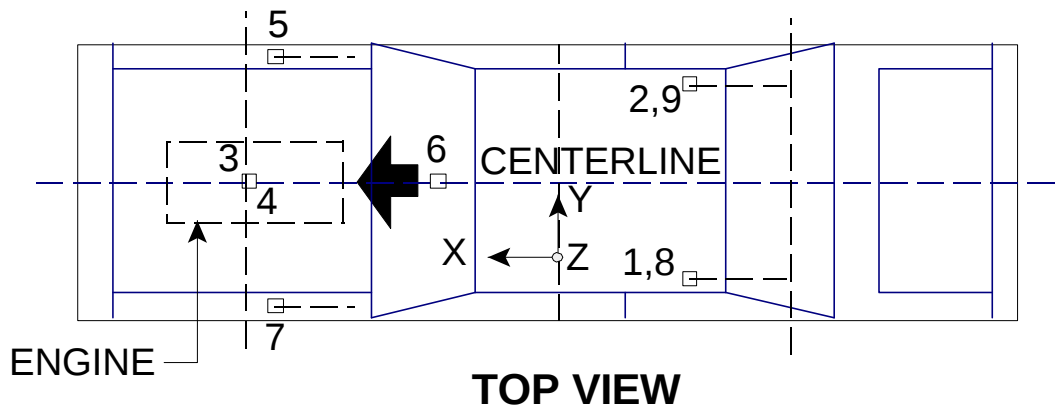
DATA SHEET NO. 6 SEAT BELT POSITIONING DATA

SEAT BELT POSITIONING DATA

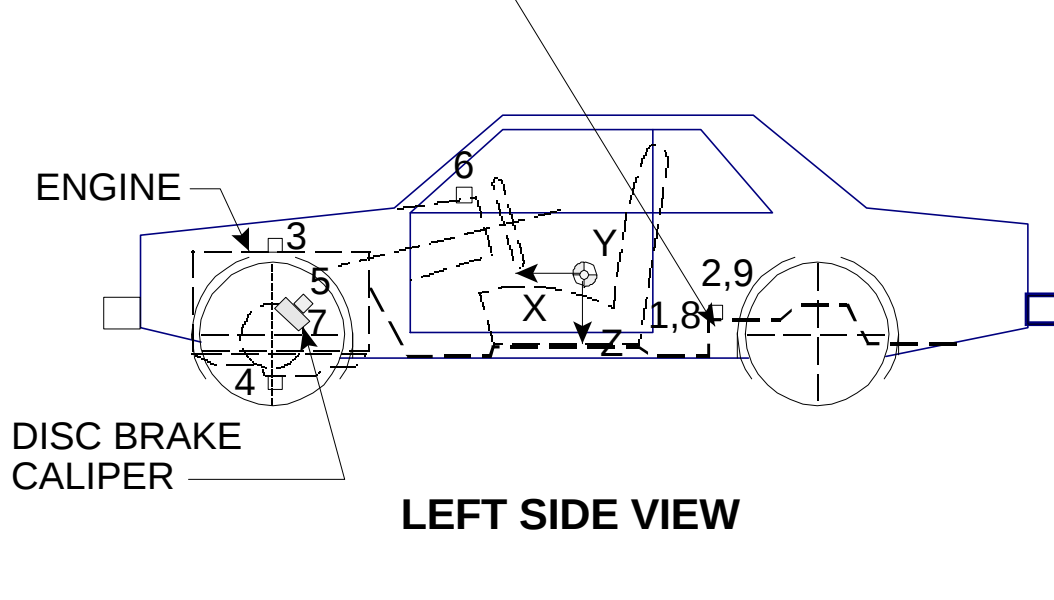


	DRIVER DUMMY (mm)	PASSENGER DUMMY (mm)
PBU -- Top surface of alum. plate to upper edge	350	330
PBL-- Top surface of alum. plate to belt lower edge	270	250
LAP BELT TENSION	10 N	10 N
SHOULDER BELT TENSION	Retractor	Retractor

VEHICLE ACCELEROMETER LOCATION AND DATA SUMMARY



REAR SEAT CUSHION
ASSY. FRONT ATTACHMENT
BRACKET SUPPORT



Note: Vehicle accelerometer location and data summary shown in DATA SHEET NO. 7

DATA SHEET NO. 7 VEHICLE ACCELEROMETER LOCATIONS AND DATA SUMMARY (cont.)

LOCATION		PRE-TEST LENGTH (mm)		
		X	Y	Z
1	Left Rear Seat Cross Member X	962	-200	-622
2	Right Rear Seat Cross Member X	957	199	-610
3	Top of Engine Block	3746	114	-757
4	Bottom of Engine	3723	206	-173
5	Disc Brake Caliper @ Right Side	3645	801	-303
6	Instrument Panel	2715	24	-814
7	Disc Brake Caliper @Left Side	3656	-767	-287
8	Left Rear Seat Cross Member Z	962	-200	-622
9	Right Rear Seat Cross Member Z	957	199	-610

LOCATION NUMBER	DESCRIPTION	MAXIMUM VALUE (g's)			
		Pos.	msec.	Neg.	msec.
1	Left Rear Seat Cross Member X	2.6	129.1	-48.9	41.7
2	Right Rear Seat Cross Member X	2.2	123.9	-47.6	41.3
3	Top of Engine Block	68.0	40.3	-157.4	28.7
4	Bottom of Engine	*	*	*	*
5	Disc Brake Caliper @ Right Side	3.8	130.0	-83.7	40.1
6	Instrument Panel	15.7	82.6	-68.8	45.0
7	Disc Brake Caliper @Left Side	6.2	208.0	-64.4	48.9
8	Left Rear Seat Cross Member Z	8.0	75.9	-59.9	21.0
9	Right Rear Seat Cross Member Z	5.9	17.2	-9.2	47.8

* Data is clipped

DATA SHEET NO. 8 DUMMY INJURY CRITERIA VALUES

Vehicle Year/Make/Model/Body Style: 2002 Mitsubishi Eclipse 3-Door Hatchback

NHTSA Test No.: M25600 Test Date: December 18, 2001

		MAXIMUM VALUE							
		Driver				Passenger			
DESCRIPTION	Unit	Pos	msec	Neg	msec	Pos	msec	Neg	msec
Head 9 Array X Arm Y	g	4.9	47.5	-12.7	55.6	15.5	53.0	-10.0	69.2
Head 9 Array X Arm Z	g	25.7	77.0	-7.0	64.9	27.1	62.4	-14.5	120.1
Head 9 Array Y Arm X	g	2.3	199.4	-50.5	73.8	11.2	262.0	-55.2	83.5
Head 9 Array Y Arm Z	g	23.5	76.0	-7.5	31.5	23.6	73.3	-7.4	101.6
Head 9 Array Z Arm X	g	4.9	38.8	-58.3	66.5	25.9	256.1	-50.8	83.3
Head 9 Array Z Arm Y	g	5.7	32.3	-14.4	98.9	7.2	57.9	-4.4	69.2
Head X	g	2.4	230.5	-50.8	74.3	13.9	262.0	-49.8	83.5
Head Y	g	3.3	38.1	-9.5	93.9	6.5	52.8	-4.3	68.5
Head Z	g	25.3	76.2	-4.3	56.8	23.3	73.2	-3.1	29.8
Head Resultant	g	55.6	75.5	0.1	-43.8	53.4	83.1	0.0	-25.6
Redundant Head X	g	2.3	229.8	-50.6	74.7	13.3	262.0	-49.6	83.6
Redundant Head Y	g	3.4	38.1	-10.3	71.8	6.0	52.8	-4.5	68.0
Redundant Head Z	g	24.9	76.1	-3.5	56.9	23.2	73.7	-3.1	29.8
Redundant Head Resultant	g	55.3	74.7	0.1	-44.1	53.1	83.2	0.0	-26.1
Upper Neck Fx	N	434.5	64.8	-463.3	124.5	290.8	78.1	-517.9	55.7
Upper Neck Fy	N	182.5	58.7	-108.6	94.8	681.2*	76.3*	-245.4*	55.3*
Upper Neck Fz	N	1897.6	72.0	-75.7	130.1	1544.8	55.4	-488.0	276.8
Upper Neck F Resultant	N	1900.7	72.0	2.5	-44.7	1643.1*	55.4*	1.2*	21.7*
Upper Neck Mx	N-m	16.2	82.2	-13.1	100.3	13.0	55.2	-11.3	286.2
Upper Neck My	N-m	34.7	133.9	-31.8	90.1	45.3	119.1	-43.5	57.8
Upper Neck Mz	N-m	14.6	82.7	-5.8	140.0	15.6	117.4	-9.7	85.3
Upper Neck M Resultant	N-m	35.4	65.2	0.1	-49.7	48.1	118.7	0.0	-46.1
Chest X	g	1.8	137.5	-53.1	67.2	4.1	284.9	-47.8	82.8
Chest Y	g	3.2	105.9	-10.4	54.9	5.1	54.2	-7.5	74.1
Chest Z	g	9.8	75.8	-9.1	55.3	17.3	82.0	-6.4	100.7
Chest Resultant	g	53.2	67.1	0.0	-34.8	51.1	82.7	0.1	-26.7

* P2 Upper Neck Fy Channel Opened During the Event – Data is Questionable

DATA SHEET NO. 8 DUMMY INJURY CRITERIA VALUES (cont.)

Vehicle Year/Make/Model/Body Style: 2002 Mitsubishi Eclipse 3-Door Hatchback

NHTSA Test No.: M25600 Test Date: December 18, 2001

		MAXIMUM VALUE							
		Driver				Passenger			
DESCRIPTION	Unit	Pos	msec	Neg	msec	Pos	msec	Neg	msec
Redundant Chest X	g	1.9	137.6	-53.0	67.1	4.0	284.9	-48.3	82.9
Redundant Chest Y	g	3.3	104.2	-10.3	54.8	5.1	54.1	-7.4	74.0
Redundant Chest Z	g	9.9	75.5	-8.9	55.3	17.1	82.2	-6.1	100.8
Redundant Chest Resultant	g	53.1	67.1	0.0	-33.3	51.5	82.7	0.1	-26.1
Chest Displacement	mm	0.0	0.4	-36.1	74.9	0.0	5.0	-32.8	79.6
Pelvic X	g	4.2	108.0	-72.2	66.0	3.9	120.7	-62.6	56.4
Pelvic Y	g	7.8	88.2	-18.2	42.5	5.9	93.7	-17.4	76.1
Pelvic Z	g	2.1	213.0	-32.8	73.8	2.2	212.1	-26.0	58.3
Pelvic Resultant	g	77.4	66.0	0.0	-33.5	66.6	59.4	0.1	-30.2
Left Femur	N	587.1	45.2	-4496.2	68.2	482.5	50.8	-2843.9	60.4
Right Femur	N	1243.6	53.7	-3069.1	62.3	424.6	50.2	-4329.2	68.1
Left Knee Slider Dx	mm	0.1	32.6	-4.8	68.4	0.8	48.7	-2.6	55.6
Right Knee Slider Dx	mm	0.3	57.7	-3.0	68.7	0.3	108.8	-1.2	56.9
Left Upper Tibia Mx	N-m	75.6	61.9	-26.4	27.2	13.7	51.1	-22.5	57.3
Left Upper Tibia My	N-m	24.1	91.7	-111.9	62.7	42.9	110.5	-191.4	46.6
Left Lower Tibia Fz	N	207.2	238.5	-2781.9	61.1	112.5	201.9	-5519.5	42.4
Left Lower Tibia Mx	N-m	206.1	61.5	-17.7	26.0	71.4	53.5	-15.0	77.1
Left Lower Tibia My	N-m	32.2	90.4	-75.7	57.9	30.3	83.5	-34.3	47.5
Right Upper Tibia Mx	N-m	77.6	47.1	-115.1	44.4	26.0	50.5	-54.2	78.5
Right Upper Tibia My	N-m	39.4	119.5	-197.9	42.9	31.0	117.8	-143.0	79.2
Right Lower Tibia Fz	N	175.7	156.0	-7792.6	42.7	105.5	153.8	-3087.6	82.9
Right Lower Tibia Mx	N-m	186.7	46.0	-54.4	43.2	7.1	30.8	-81.3	78.1
Right Lower Tibia My	N-m	47.4	44.8	-4.3	253.0	42.3	88.3	-46.5	51.5
Left Foot Aft Ax	g	43.6	63.4	-165.5	57.7	20.9	63.6	-121.6	46.5
Left Foot Aft Az	g	38.6	32.9	-109.4	57.4	23.3	60.8	-77.8	41.2
Left Foot Fore Az	g	*	*	*	*	52.7	59.0	-147.0	38.4
Right Foot Aft Ax	g	11.8	113.4	-106.7	44.8	49.7	60.9	-102.2	50.7
Right Foot Aft Az	g	12.6	56.8	-189.5	42.5	16.9	60.8	-46.4	53.3
Right Foot Fore Az	g	59.4	39.5	-328.5	44.3	63.6	60.7	-58.8	38.7
Lap Belt Load	N	3973.9	64.2	-16.5	271.3	6089.0	71.6	-1.2	1.7
Torso Belt	N	4813.9	81.5	-6.2	152.4	5130.8	87.0	-23.5	267.5

* Data is clipped

DATA SHEET NO. 8 DUMMY INJURY CRITERIA VALUES (cont.)

Vehicle Year/Make/Model/Body Style: 2002 Mitsubishi Eclipse 3-Door Hatchback

NHTSA Test No.: M25600 Test Date: December 18, 2001

HEAD INJURY CRITERIA (HIC)				
	HIC**	t ₁ (msec)	t ₂ (msec)	Average Acceleration (g) t ₁ to t ₂
Position #1 - Driver	389.5	55.2	91.2	41.1
Position #2 - Passenger	439.5	60.3	96.3	43.1

** HIC is as defined in FMVSS 208. The maximum time interval from t₁ to t₂ is 36 milliseconds.

CLIP SUMMARY*				
	CLIP (g's)	t ₁ (msec)	t ₂ (msec)	CSI
Position #1 - Driver	51.8	65.2	68.2	520.3
Position #2 - Passenger	49.4	81.5	84.5	532.3

* The maximum chest resultant acceleration is defined as the maximum acceleration which exceeds 0.003 seconds in duration.

DATA SHEET NO. 8 DUMMY INJURY CRITERIA VALUES (cont.)
REDUNDANT DATA

Vehicle Year/Make/Model/Body Style: 2002 Mitsubishi Eclipse 3-Door Hatchback

NHTSA Test No.: M25600 Test Date: December 18, 2001

HEAD INJURY CRITERIA (HIC) REDUNDANT				
	HIC**	t ₁ (msec)	t ₂ (msec)	Average Acceleration (g) t ₁ to t ₂
Position #1 - Driver	382.8	55.2	91.2	40.8
Position #2 - Passenger	446.7	63.0	99.0	43.4

** HIC is as defined in FMVSS 208. The maximum time interval from t₁ to t₂ is 36 milliseconds.

CLIP SUMMARY* REDUNDANT				
	CLIP (g's)	t ₁ (msec)	t ₂ (msec)	CSI
Position #1 - Driver	52.0	65.0	68.0	525.5
Position #2 - Passenger	49.8	81.6	84.6	541.8

* The maximum chest resultant acceleration is defined as the maximum acceleration which exceeds 0.003 seconds in duration.

DATA SHEET NO. 9 SEAT BELT PERFORMANCE ASSESSMENT TEST DATA

BELT LENGTH DATA:

	<u>Driver</u>	<u>Passenger</u>
Belt length from trim panel exit to bolt hole anchor point for continuous webbing systems.	<u>1832</u>	<u>1862</u>
Shoulder belt length as measured on Part 572 Dummy.	<u>980</u>	<u>1000</u>
Lap belt length as measured on Part 572 Dummy.	<u>780</u>	<u>790</u>

SHOULDER BELT SPOOL-OFF DATA:

As determined by film analysis.	<u>*</u>	<u>*</u>
As determined mechanically.	<u>**</u>	<u>**</u>
As determined electronically.	<u>**</u>	<u>**</u>

BELT STRETCH DATA:

Measured electronically between shoulder belt load cell and the "D" ring.	<u>0.37 mm/50 mm</u>	<u>0.77 mm/ 50 mm</u>
Measured mechanically.	<u>0</u>	<u>0</u>

* Due to space and weight constraints, on-board cameras were not used on this test.

** Per the manufacturer's representative request, seat belt spool out measurements were not recorded.

Dimensions in millimeters

DATA SHEET NO.10 SUMMARY OF FMVSS 212 DATA

FMVSS NO. 212 - "WINDSHIELD MOUNTING" DATA

DETAILS OF WINDSHIELD MOUNTING SUCH AS RETENTION METHOD, TRIM TYPE, ETC.:

Windshield is bonded in place and covered with a 20 mm molding.

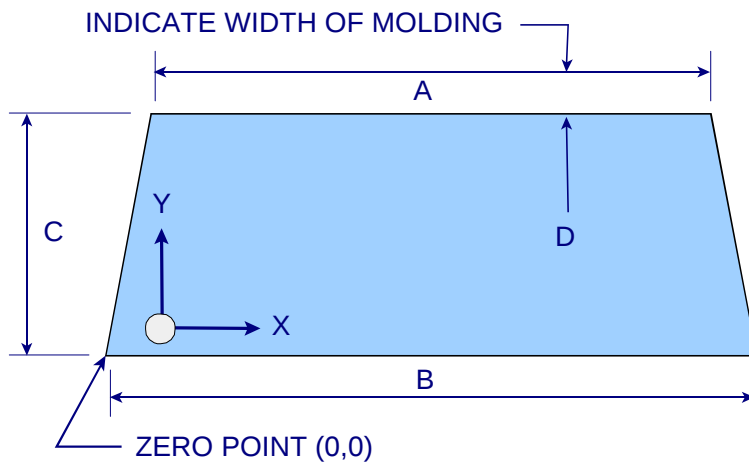
FMVSS 212 REQUIREMENTS:

The Post-Test periphery retention amount must be at least 75% of the Pre-Test periphery measurement for vehicles NOT equipped with automatic restraints, and 50% for each side of the windshield for vehicles equipped with automatic restraint systems for front occupants,

FMVSS 212 TEST DATA

	WINDSHIELD PERIPHERY		% OF RETENTION
	PRE-TEST (mm)	POST-TEST (mm)	
RIGHT SIDE	2110	2110	100.0%
LEFT SIDE	2110	2110	100.0%
TOTAL	4220	4220	100.0%

AREA OF RETENTION FAILURE: None



DIMENSIONS (mm)	
A	1120
B	1540
C	780
D	20

FRONT VIEW OF WINDSHIELD

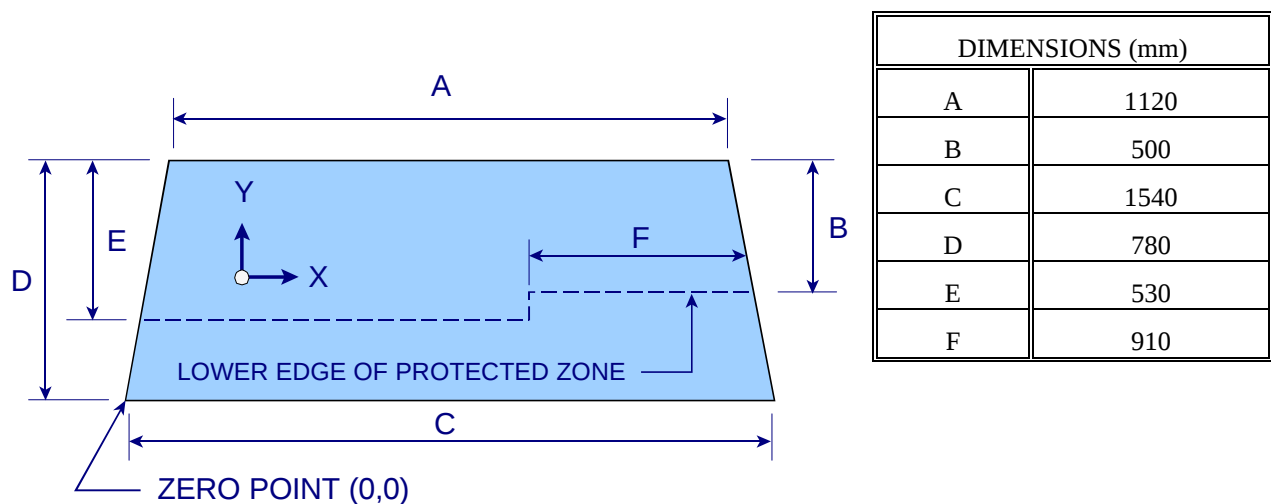
FAILURE DETAILS: None

DATA SHEET NO. 11 FMVSS NO. 219 (PARTIAL) - "WINDSHIELD ZONE INTRUSION" DATA

PROTECTED ZONE LOWER EDGE REQUIREMENT:

The lower edge of the protected zone is determined by placing a 165 mm diameter rigid sphere weighing 6.8 kg in a position such that it simultaneously contacts the inner surface of the windshield and the top surface of the instrument panel including padding. The locus of points is drawn on the inner surface of the windshield contacted by the sphere across the width of the instrument panel. From the outermost contactable points extend the locus line horizontally to the edges of the windshield, then draw a line on the inner surface of the windshield below and 13 mm distant from the locus line. The LOWER EDGE OF THE PROTECTED ZONE is the longitudinal projection of this line onto the outer surface of the windshield.

FMVSS 219 TEST DATA:



FRONT VIEW OF WINDSHIELD

DETAILS OF WINDSHIELD GLASS PENETRATION GREATER THAN 6 mm: None

(Show location of penetration on the above sketch)

COORDINATES		
	X	Y
1.	-	-
2.	-	-
3.	-	-
4.	-	-

DATA SHEET NO. 12 FMVSS NO. 301-75 "FUEL SYSTEM INTEGRITY" POST IMPACT TEST DATA

NHTSA TEST No.:

M25600

TEST DATE:

December 18, 2001

VEHICLE MAKE/MODEL:

2002 Mitsubishi Eclipse 3-Door Hatchback

The test vehicle was filled from 92% to 94% of the manufacture's "usable" capacity. The electric fuel pump was operating if it will operate without engine operation. Two Part 572 anthropomorphic test devices were located at each of the front designated seating positions.

=====

TEST VEHICLE IMPACT TYPE:

X

Frontal (56 kph)

Oblique (48 kph) with _____ deg. barrier face first
contacting _____

-

(driver/passenger) side

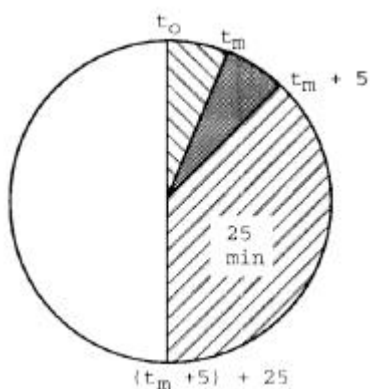
-

Rear Moving Barrier (48 kph)

-

Lateral Moving Barrier (32 kph)

FUEL SPILLAGE MEASUREMENT:



1. From impact until vehicle motion ceases
2. For 5 minute period after vehicle motion ceases
3. For next 25 minutes

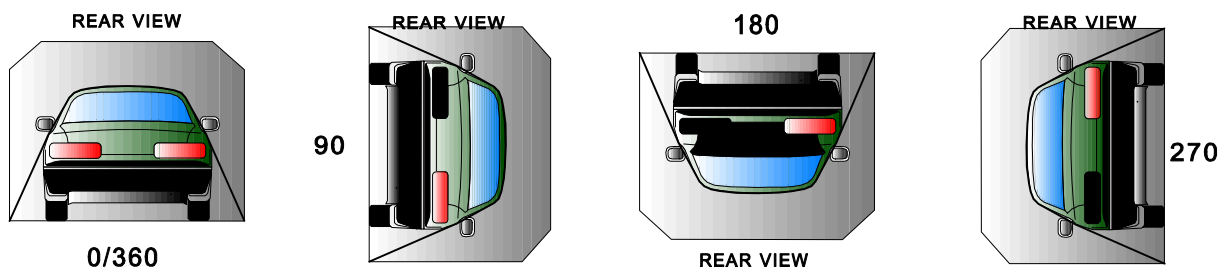
ACTUAL	MAX ALLOWED
0	28 g
0	141 g
0	28 g/min.

SOLVENT SPILLAGE DETAILS: None

DATA SHEET NO. 13 - ROLLOVER DATA

Vehicle: 2002 Mitsubishi Eclipse 3-Door Hatchback

NHTSA No.: M25600



I. DETERMINATION OF SOLVENT COLLECTION TIME PERIOD:

Rollover Stage	Rotation Time (spec. 1 -3 min)				FMVSS 301 Hold Time		Total Time				Next Whole Minute Interval	
0° - 90°	1	minutes	12	seconds	5	minutes	6	minutes	12	seconds	7	minutes
90° - 180°	1	minutes	09	seconds	5	minutes	6	minutes	9	seconds	7	minutes
180°-270°	1	minutes	03	seconds	5	minutes	6	minutes	3	seconds	7	minutes
270°-360°	1	minutes	09	seconds	5	minutes	6	minutes	9	seconds	7	minutes

II. FMVSS 301 REQUIREMENTS: (Maximum allowable solvent spillage):

First 5 minutes from onset of rotation	6th min.	7th min.	8th min. (if required)
142 g	28 g	28 g	28 g

III. ACTUAL TEST VEHICLE SOLVENT SPILLAGE:

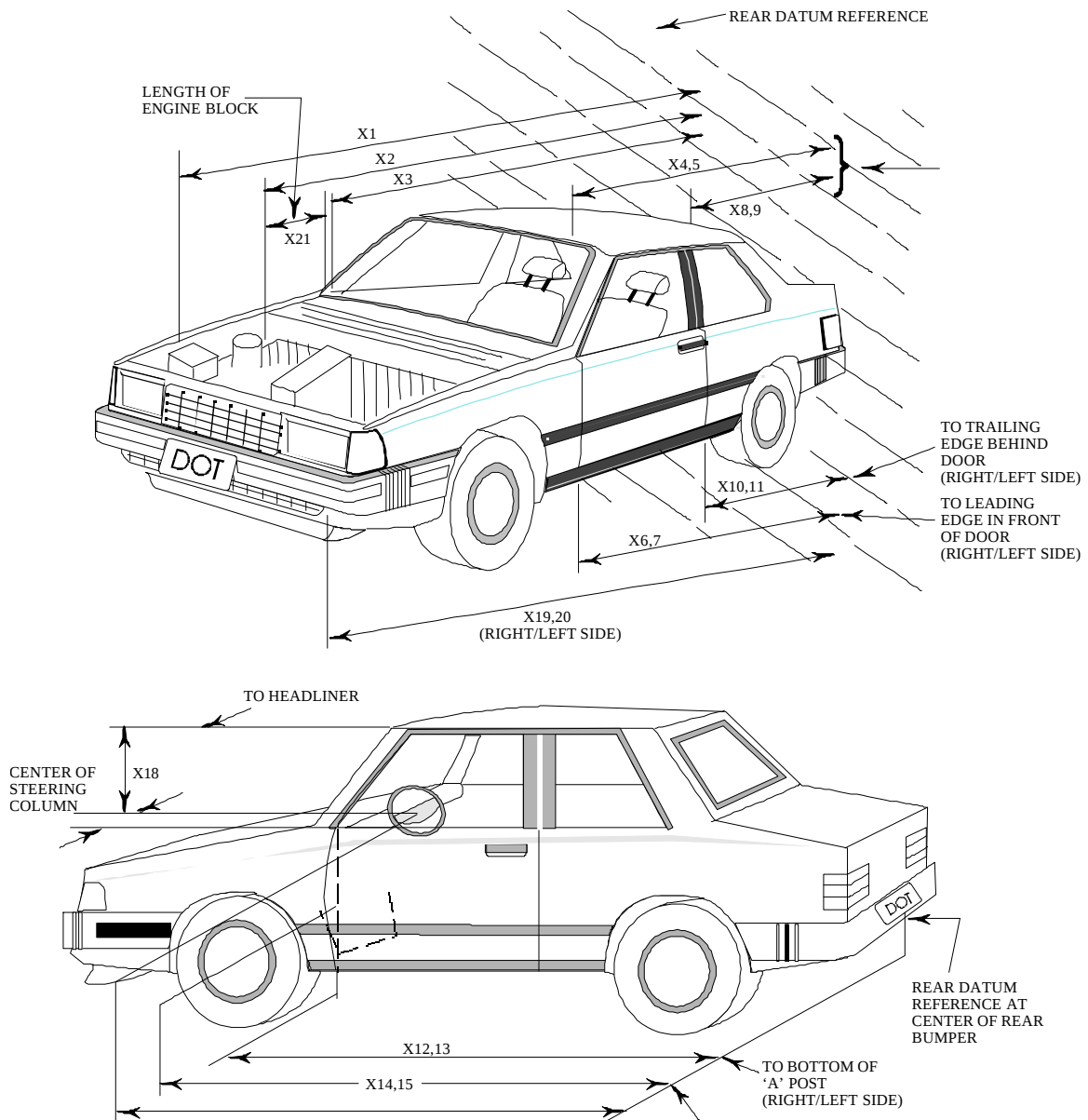
Rollover Stage	First 5 minutes from onset of rotation (g)	6th min. (g)	7th min. (g)	8th min. (if required) (g)
0° - 90°	0	0	0	N/A
90° - 180°	0	0	0	N/A
180°-270°	0	0	0	N/A
270°-360°	0	0	0	N/A

Note: Record spillage for whole minute intervals only as determined above.

IV. SOLVENT SPILLAGE LOCATION(S):

Rollover Stage	Spillage Location
0° - 90°	None
90° - 180°	None
180°-270°	None
270°-360°	None

DATA SHEET NO. 14 TEST VEHICLE MEASUREMENTS

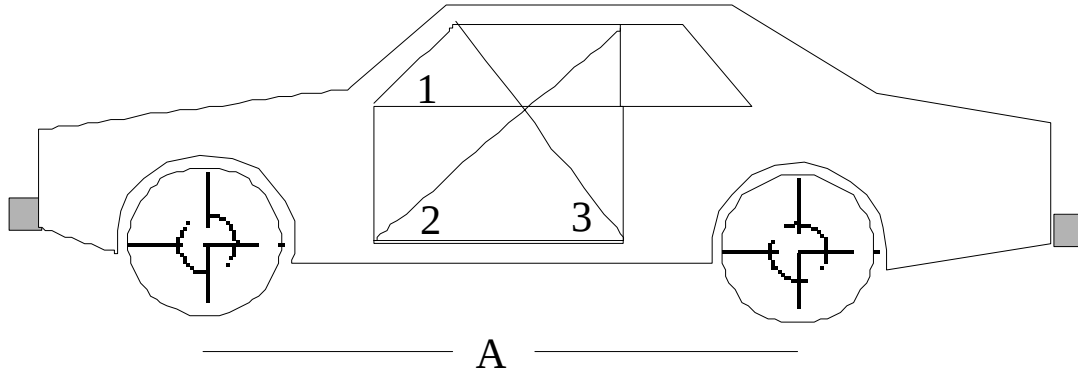


DATA SHEET NO.14 VEHICLE MEASUREMENTS (cont.)

No.		Pre-Test	Post-Test	Difference
X1	Total Length of Vehicle at Centerline	4462	4023	439
X2	Rear Surface of Vehicle to Front of Engine	3974	3714	260
X3	Rear Surface of Vehicle to Firewall	3378	3320	58
X4	Rear Surface of Vehicle to Upper Leading Edge of Right Door	2945	2945	0
X5	Rear Surface of Vehicle to Upper Leading Edge of Left Door	2953	2957	-4
X6	Rear Surface of Vehicle to Lower Leading Edge of Right Door	2949	2954	-5
X7	Rear Surface of Vehicle to Lower Leading Edge of Left Door	2954	2965	-11
X8	Rear Surface of Vehicle to Upper Trailing Edge of Right Door	1674	1673	1
X9	Rear Surface of Vehicle to Upper Trailing Edge of Left Door	1680	1681	-1
X10	Rear Surface of Vehicle to Lower Trailing Edge of Right Door	1820	1815	5
X11	Rear Surface of Vehicle to Lower Trailing Edge of Left Door	1799	1805	-6
X12	Rear Surface of Vehicle to Bottom of "A" Post of Right Side	3031	3032	-1
X13	Rear Surface of Vehicle to Bottom of "A" Post of Left Side	3060	3061	-1
X14	Rear Surface of Vehicle to Firewall, Right Side	3333	3276	57
X15	Rear Surface of Vehicle to Firewall, Left Side	3276	3222	54
X16	Rear Surface of Vehicle to Steering Column	2487	2540	-53
X17	Center of Steering Column to "A" Post	325	304	21
X18	Center of Steering Column to Headliner	343	449	-106
X19	Rear Surface of Vehicle to Right Side of Front Bumper	4404	3946	458
X20	Rear Surface of Vehicle to Left Side of Front Bumper	4408	4050	358
X21	Length of Engine Block	537	537	0
RD	Rear Surface of Vehicle to Right Side of Dash Panel	2694	2695	-1
CD	Rear Surface of Vehicle to Center of Dash Panel	2722	2690	32
LD	Rear Surface of Vehicle to Left Side of Dash Panel	2702	2704	-2

All Dimensions in mm

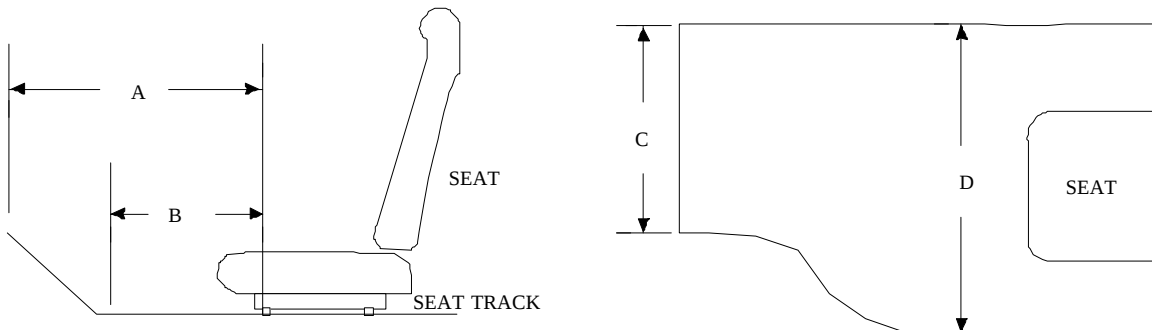
DATA SHEET NO.14 VEHICLE MEASUREMENTS (cont.)
 VEHICLE INTRUSION MEASUREMENTS
 DOOR OPENING WIDTH



UNITS (mm)	LEFT			RIGHT		
MEASUREMENT	1	2	3	1	2	3
BEFORE TEST	1236	1413	936	1209	1430	937
AFTER TEST	1237	1420	962	1239	1441	939
DIFFERENCE	-1	-7	-26	-30	-11	-2

UNITS (mm)	A = WHEELBASE LEFT	A = WHEELBASE RIGHT
BEFORE TEST	2570	2570
AFTER TEST	2552	2509
DIFFERENCE	18	61

DATA SHEET NO.14 VEHICLE MEASUREMENTS (cont.)
 VEHICLE INTRUSION MEASUREMENTS
 STATIC FOOTWELL DEFORMATION



DRIVER

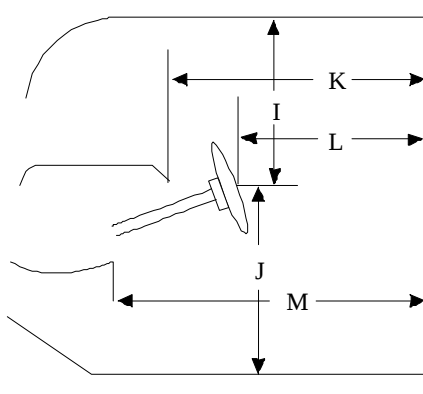
Measurement	Pre-Test	Post-Test	Difference
A	754	652	102
B	601	546	55
C	490	490	0
D	496	546	-50

PASSENGER

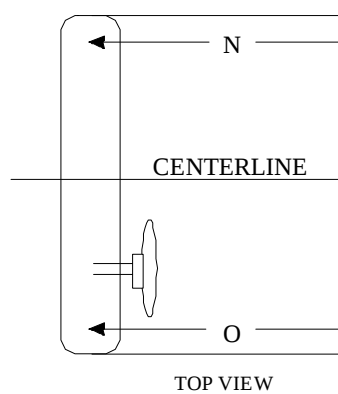
Measurement	Pre-Test	Post-Test	Difference
A	759	654	105
B	627	516	111
C	476	463	13
D	524	507	17

Units = mm

DATA SHEET NO.14 VEHICLE MEASUREMENTS (cont.)
VEHICLE INTRUSION MEASUREMENTS
STATIC PASSENGER COMPARTMENT INTRUSION

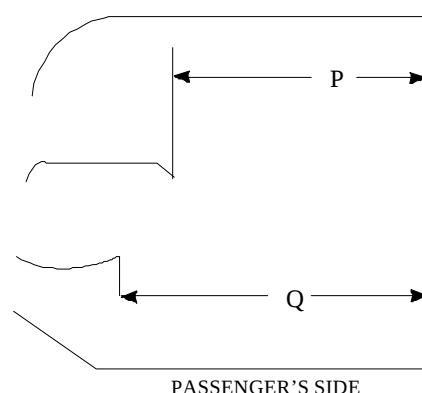


DRIVER'S SIDE



TOP VIEW

MEASUREMENTS
FROM C-PILLAR
BELT ANCHORAGE

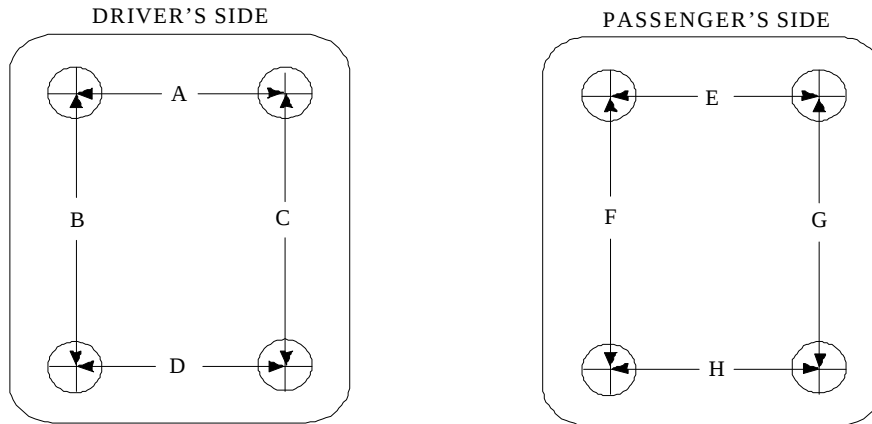


PASSENGER'S SIDE

Measurement	Pre-Test	Post-Test	Difference
I	343	449	-106
J	638	558	80
K	1763	1073	690
L	1511	876	635
M	1812	1127	685
N	1736	1026	710
O	1725	1040	685
P = K (PASS.)	1836	1132	704
Q = M (PASS.)	1734	1029	705

Units = mm

DATA SHEET NO.14 VEHICLE MEASUREMENTS (cont.)
FLOORBOARD DEFORMATION

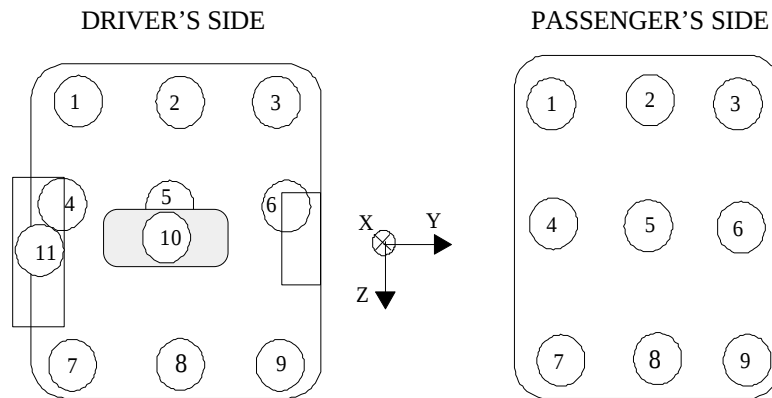


TOP VIEW THROUGH FLOOR PAN

Measurement	Pre-Test	Post-Test	Difference
A	200	201	-1
B	300	301	-1
C	300	297	3
D	200	205	-5
E	200	200	0
F	300	303	-3
G	300	294	6
H	200	197	3

Units = mm

DATA SHEET NO.14 VEHICLE MEASUREMENTS (cont.)
TOE-PAN INTRUSION



Driver Side Toe-pan Measurements

Toe-pan Location	X Deformation (mm)			Z Deformation (mm)		
	Pre-Test	Post-Test	Difference	Pre-Test	Post-Test	Difference
1	3188	3144	44	-436	-449	13
2	3210	3149	61	-441	-462	21
3	3225	3155	70	-462	-468	6
4	3133	3123	10	-349	-364	15
5	3156	3101	55	-362	-384	22
6	3129	3078	51	-362	-377	15
7	3063	3060	3	-278	-284	6
8	3057	3043	14	-287	-290	3
9	3068	3048	20	-288	-288	0
10	3007	2992	15	-421	-427	6
11	3051	3039	12	-388	-382	-6

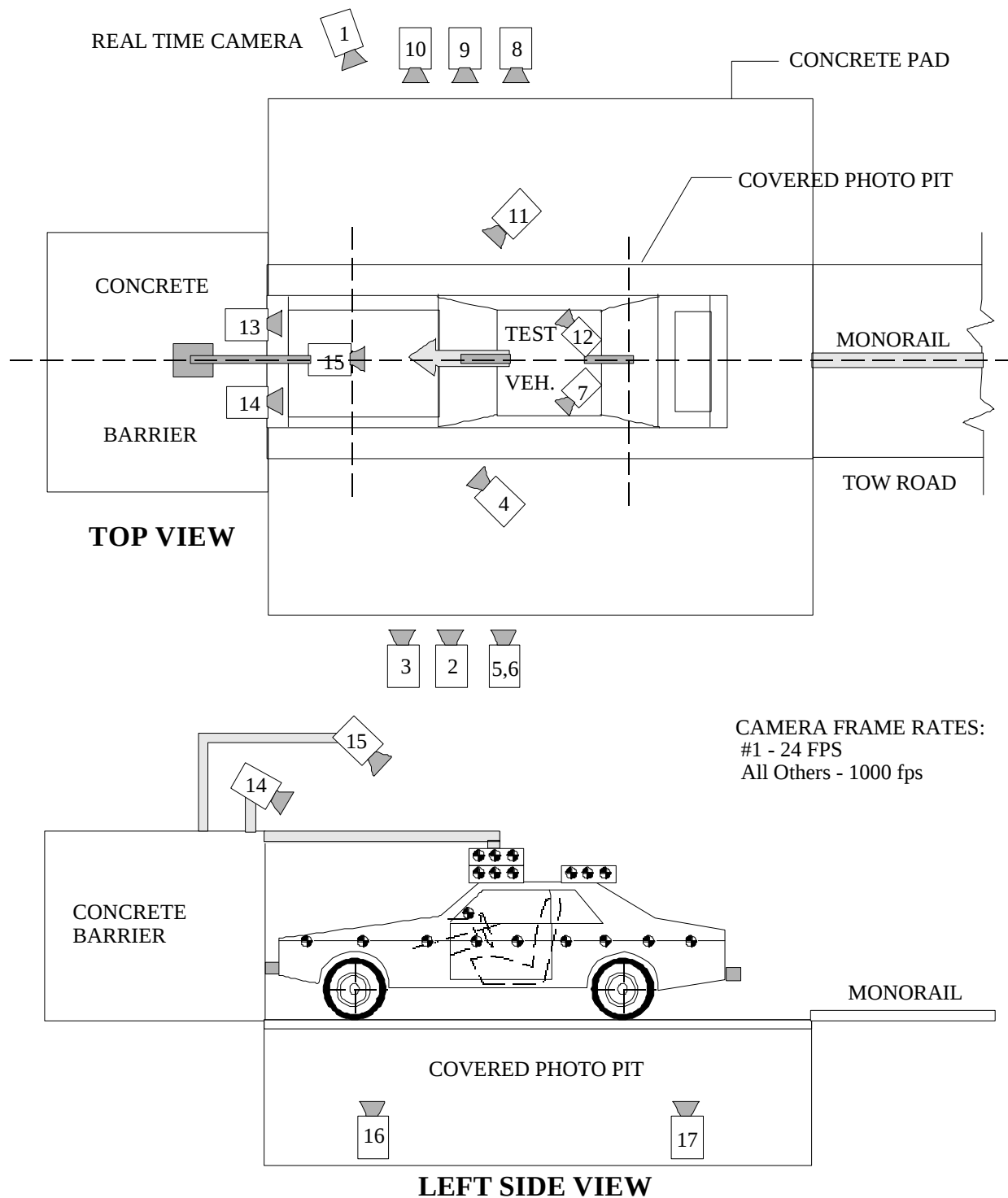
Passenger Side Toe-pan Measurements

Toe-pan Location	X Deformation (mm)			Z Deformation (mm)		
	Pre-Test	Post-Test	Difference	Pre-Test	Post-Test	Difference
1	3149	3112	37	-395	-416	21
2	3160	3137	23	-393	-411	18
3	3134	3090	44	-430	-447	17
4	3090	3056	34	-307	-347	40
5	3092	3050	42	-313	-342	29
6	3089	3067	22	-341	-354	13
7	3027	2985	42	-246	-264	18
8	3027	3000	27	-253	-274	21
9	3026	3016	10	-265	-278	13

Reference: SAE: X = Rear Bumper (Positive: forward); Z = Ground (Positive: down)

DATA SHEET NO.15 HIGH-SPEED CAMERA LOCATIONS

NOTE: Camera information shown in DATA SHEET NO. 15.



DATA SHEET NO.15 HIGH-SPEED CAMERA LOCATIONS (cont.)

NHTSA Test No.: M25600 Vehicle: 2002 Mitsubishi Eclipse 3-Door Hatchback

CAMERA NO.	VIEW	CAMERA POSITIONS (mm)*			ANGLE (deg)**	FILM PLANE TO HEAD TARGET	LENS (mm)	SPEED (fps)
		X	Y	Z				
1	Real-Time Camera	-	-	-	-	-	-	24
2	Overall Left Side	5715	1720	1075	-2	5478	12.5	1000
3	Left Side View	8165	815	1092	-3	7928	25	1000
4	Driver and Interior View	7770	1675	1995	-10	-	35	1000
5	Steering Column (Bottom)	7150	895	1177	-4	6913	25	1010
6	Steering Column (Top)	7150	895	1777	-9	6913	25	1000
7	Left Belt	-	-	-	-	-	13	-
8	Overall Right Side	6675	2020	1090	-2	6956	12.5	1000
9	Right Side View	8390	1230	1070	-3	8671	25	1000
10	Right Passenger View	8180	1635	1330	-3	8461	35	1000
11	Passenger and Interior View	7960	2960	1975	-11	-	35	1010
12	Right Belt	-	-	-	-	-	13	-
13	Passenger Front View	620	-92	1987	-42	-	13	1000
14	Driver Front View	620	-92	1987	-39	-	13	1000
15	Windshield View	0	-530	3374	-55	-	13	1010
16	Pit View of Engine	0	815	-3048	90	-	13	1010
17	Pit View of Fuel Tank	0	2720	-3048	90	-	13	1050

*X = film plane to monorail centerline ** = referenced to horizontal plane

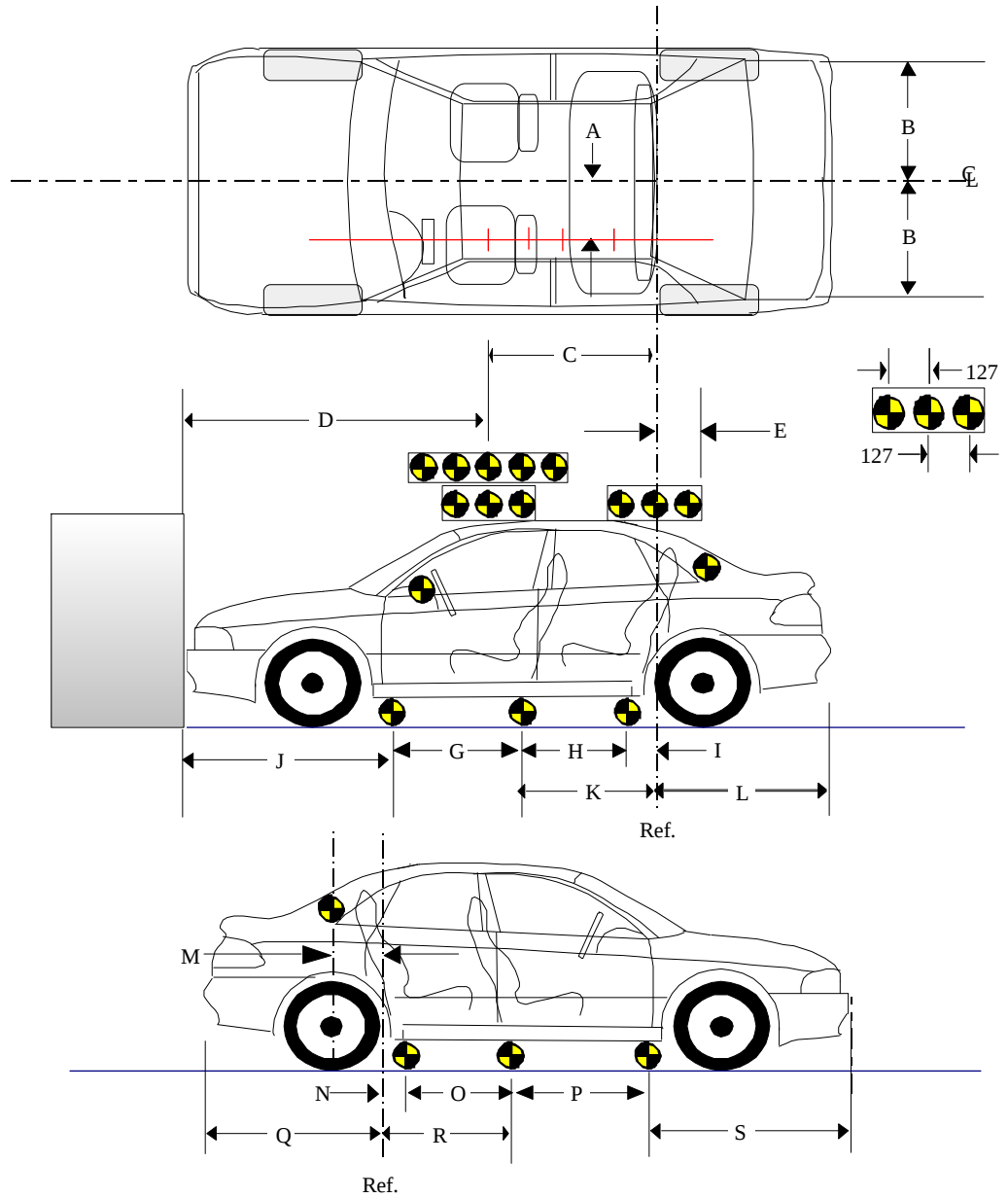
Y = film plane to impact location N.T. indicates No Timing

Z = film plane to ground

DATA SHEET NO. 16 VEHICLE REFERENCE PHOTO TARGET LOCATIONS

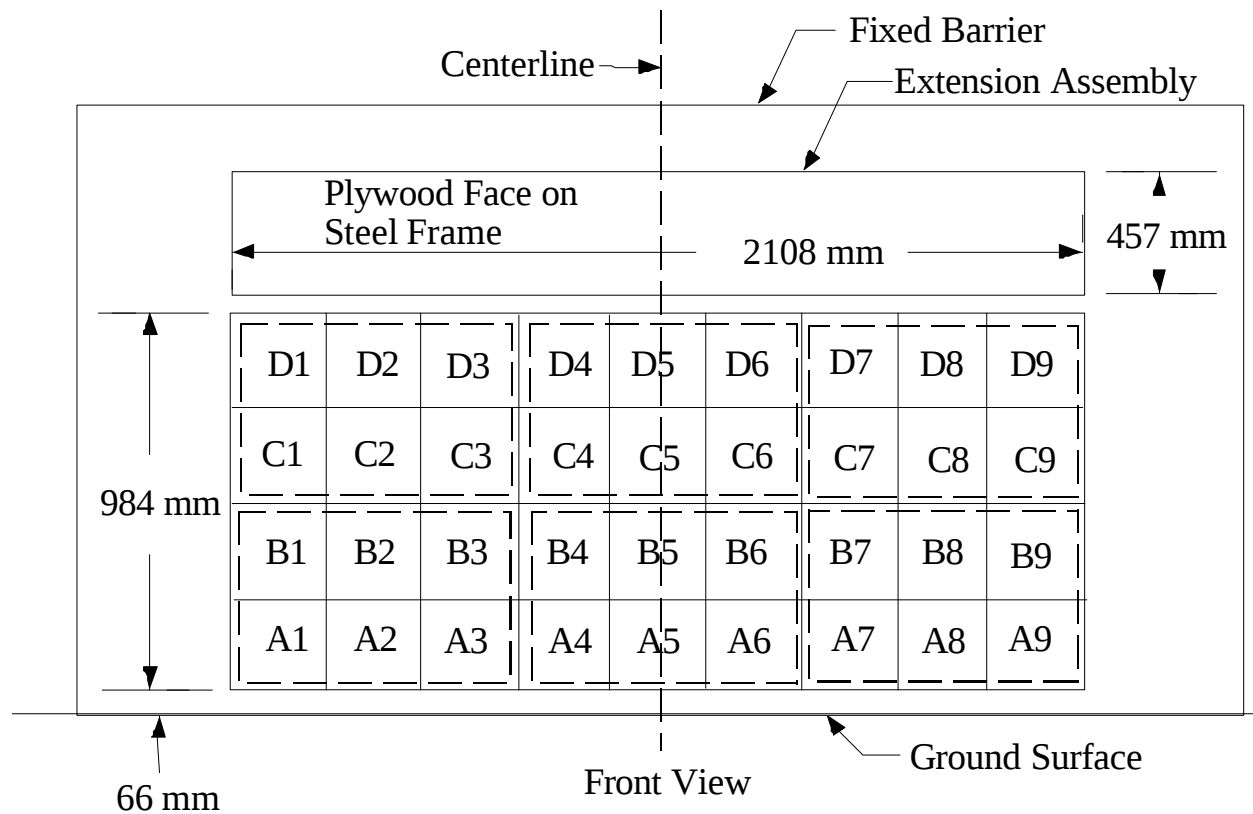
(Dimensions in millimeters)

A	357
B	518
C	912
D	2046
E	233
F	1403
G	819
H	813
I	147
J	1450
K	960
L	1246
M	249
N	137
O	823
P	815
Q	1248
R	960
S	1453



DATA SHEET NO. 17 LOAD CELL LOCATIONS ON FIXED BARRIER

36 Load Cells
 4 Rows
 9 Columns
 6 Groupings (6 cells/group)



6 GROUPS OF 6 LOAD CELLS EACH

Group 4 C1 thru D3	Group 5 C4 thru D6	Group 6 C7 thru D9
Group 1 A1 thru B3	Group 2 A4 thru B6	Group 3 A7 thru B9

The following data is presented in Appendix B:

- (1)Data from 36 individual load cells
- (2)Total or Sum of 36 individual load cells
- (3)Data from 6 Groupings shown above (6 cells/group)

DATA SHEET NO. 18 POST TEST AIR BAG DATA

NHTSA No.: M25600; Test Date: December 18, 2001; Technician: Patrick MacDiarmid

Vehicle Model Year/Make/Model: 2002 Mitsubishi Eclipse 3-Door Hatchback

A. No. of vent holes: 2 -Driver 2 -Passenger

B. Size of vent holes: (mm²) 707 -Driver 1963 -Passenger

C. Total vent area: (mm²) 1414 -Driver 3926 -Passenger

D. Deflated air bag length and width dimensions or, if round, diameter. (mm)

Driver: 600 -Height; 550 -Width; 420 -Depth

Passenger: 730 -Height; 450 -Width; 730 -Depth

E. Is the air bag tethered?

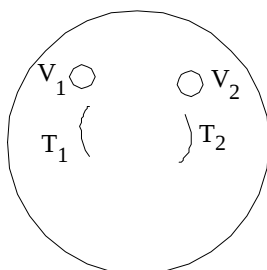
Driver: X -Yes; - -No; If yes, record length of tether- 300

Passenger: - -Yes; X -No; If yes, record length of tether- -

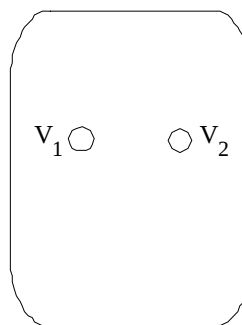
Sketch the air bag showing the location of the vent holes, how the bag is tethered, and where the bag is tethered. Also describe how the tethers are attached to the bag and the steering wheel.

(Note: Not to scale; V_n = Vent hole_n, T_n = Tether_n).

Driver



Passenger



F. Record part numbers and manufacturer name of the air bag and gas generator.

Driver: Air bag: BELM8W02BDT

Generator: BBLM945VAPM

Passenger: Air bag: T1IE262O20431 30319650A

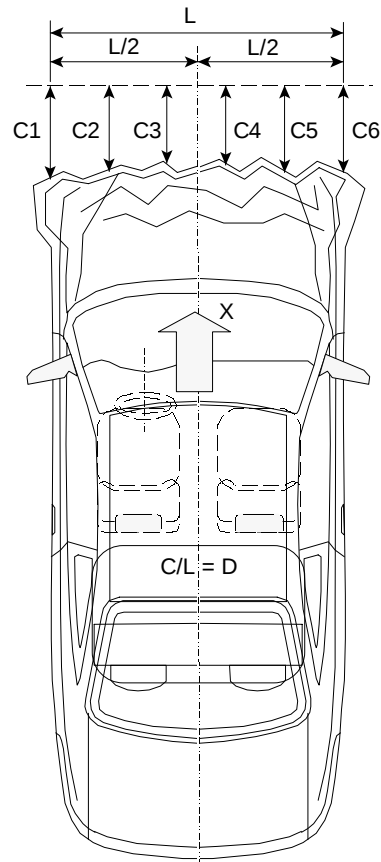
Generator: 2026650A MR791350 CM23268O20133 2001

DATA SHEET NO. 19 ACCIDENT INVESTIGATION DIVISION DATA
FOR 56.3 KPH FRONTAL BARRIER IMPACT

Vehicle Make/Model/Body Style: Mitsubishi Eclipse 3-Door Hatchback
 NHTSA Test No.: M25600 VIN: 4A3AC34G32E050432
 Model Year: 2002 Build Date: 10/2001 Test Date: December 18, 2001
 Vehicle Size Category: Subcompact Test Weight: 1512.0 kg
 Vehicle Wheelbase: 2570 mm; Front Overhang: 979 mm; Overall Width: 1750 mm
 Collision Deformation Classification (CDC) Code: 12FDEW3

Crush Depth Dimensions

	PRE (mm)	POST (mm)	DIFF (mm)
C1 =	4390	4047	343
C2 =	4449	4057	392
C3 =	4474	4040	434
C4 =	4468	4020	448
C5 =	4440	3978	462
C6 =	4381	3928	453



Midpoint of Damage: D = Vehicle Centerline (Longitudinal)

Length of Damaged Region: L1= 1076 mm
 L2= 538 mm
 L5= 215.2 mm

APPENDIX A
PHOTOGRAPHS

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Figure A-1 LOAD CELL LOCATIONS



Figure A-2 PRE-TEST FRONT VIEW



Figure A-3 POST-TEST FRONT VIEW



Figure A-4 PRE-TEST LEFT SIDE VIEW

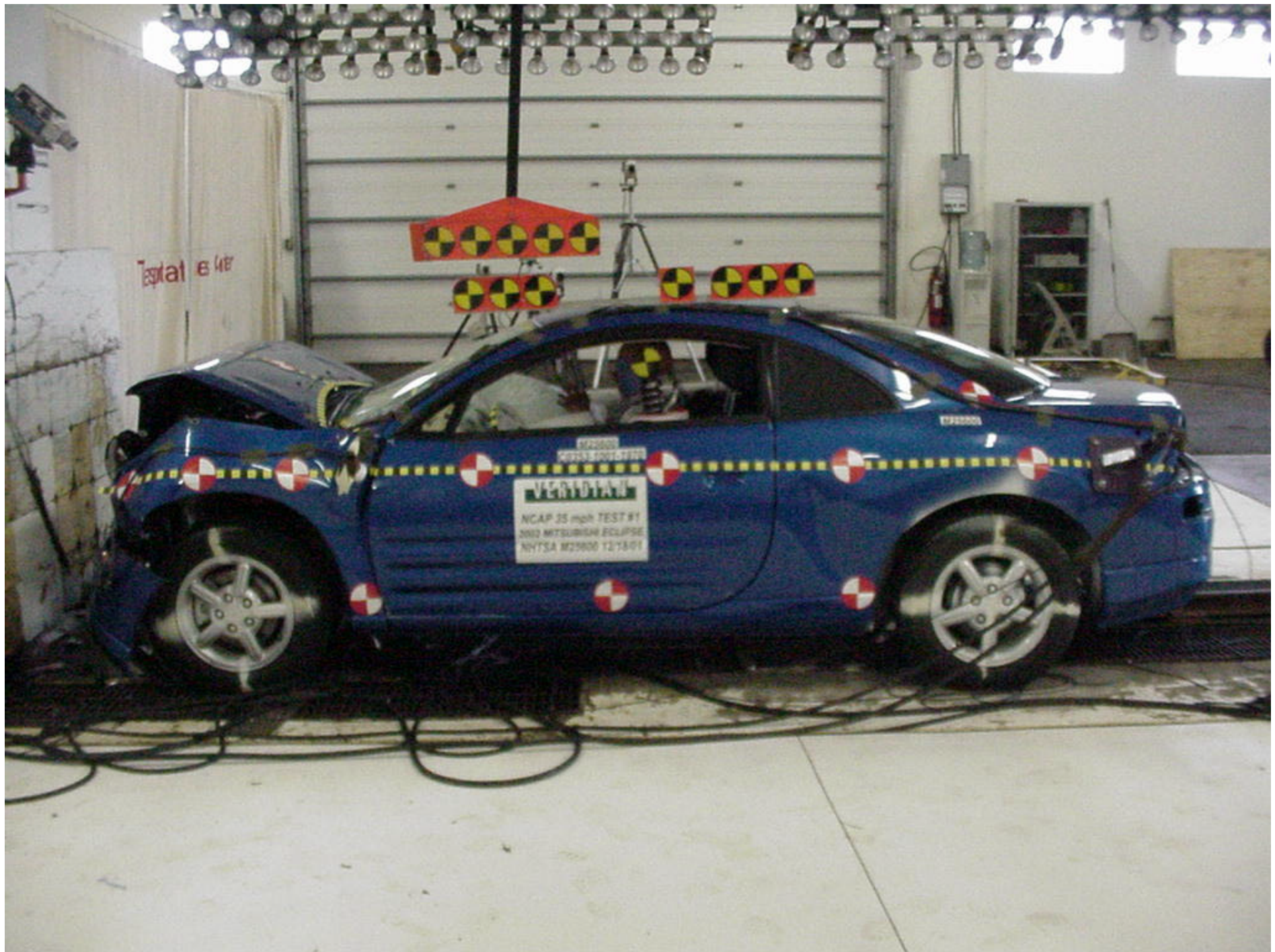


Figure A-5 POST-TEST LEFT SIDE VIEW



Figure A-6 PRE-TEST RIGHT SIDE VIEW



Figure A-7 POST-TEST RIGHT SIDE VIEW



Figure A-8 PRE-TEST RIGHT FRONT THREE-QUARTER VIEW



Figure A-9 POST-TEST RIGHT FRONT THREE-QUARTER VIEW



Figure A-10 PRE-TEST LEFT REAR THREE-QUARTER VIEW



Figure A-11 POST-TEST LEFT REAR THREE-QUARTER VIEW



Figure A-12 PRE-TEST WINDSHIELD VIEW



Figure A-13 POST-TEST WINDSHIELD VIEW



Figure A-14 PRE-TEST ENGINE COMPARTMENT VIEW

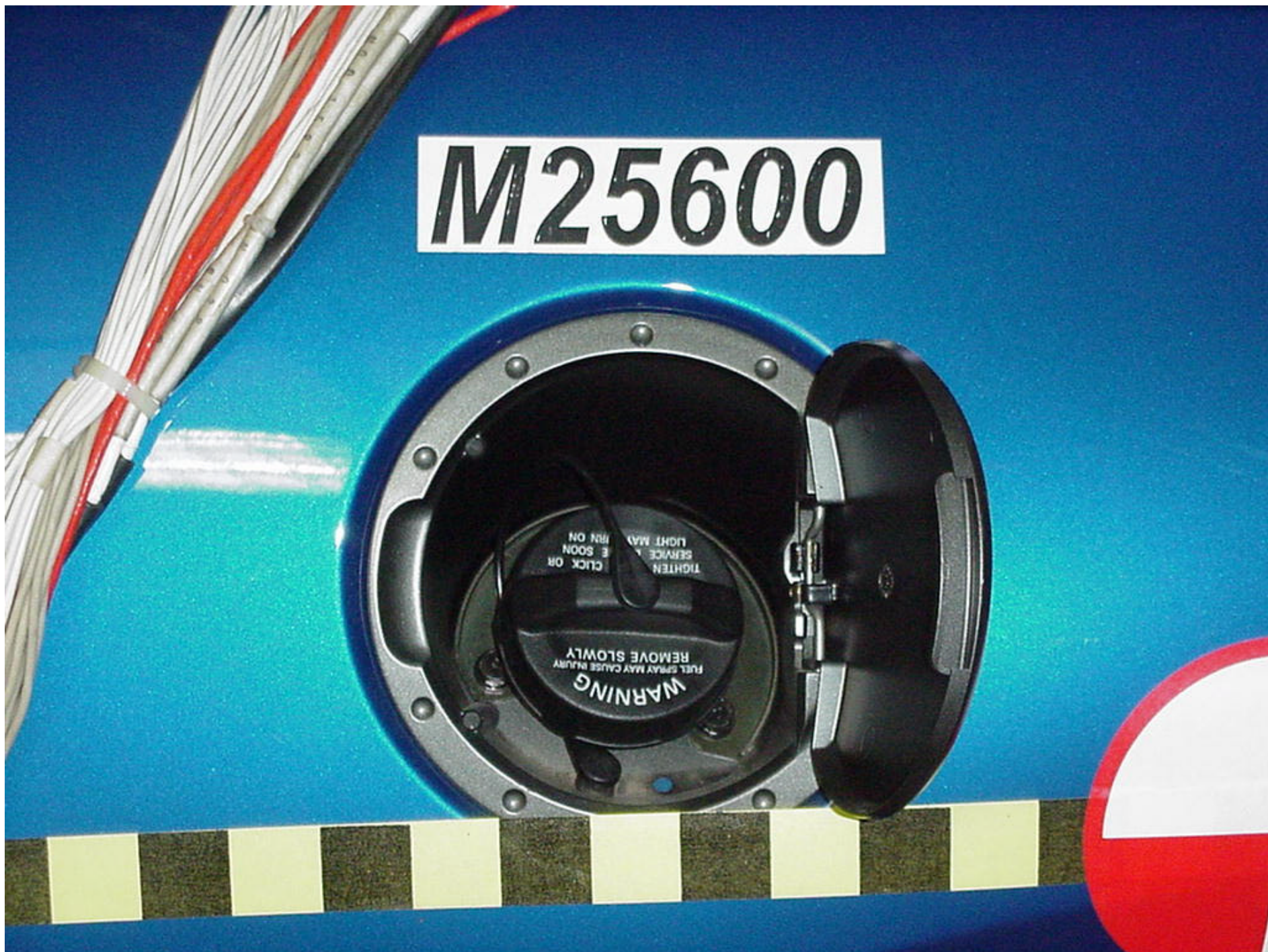


Figure A-15 FUEL CAP VIEW

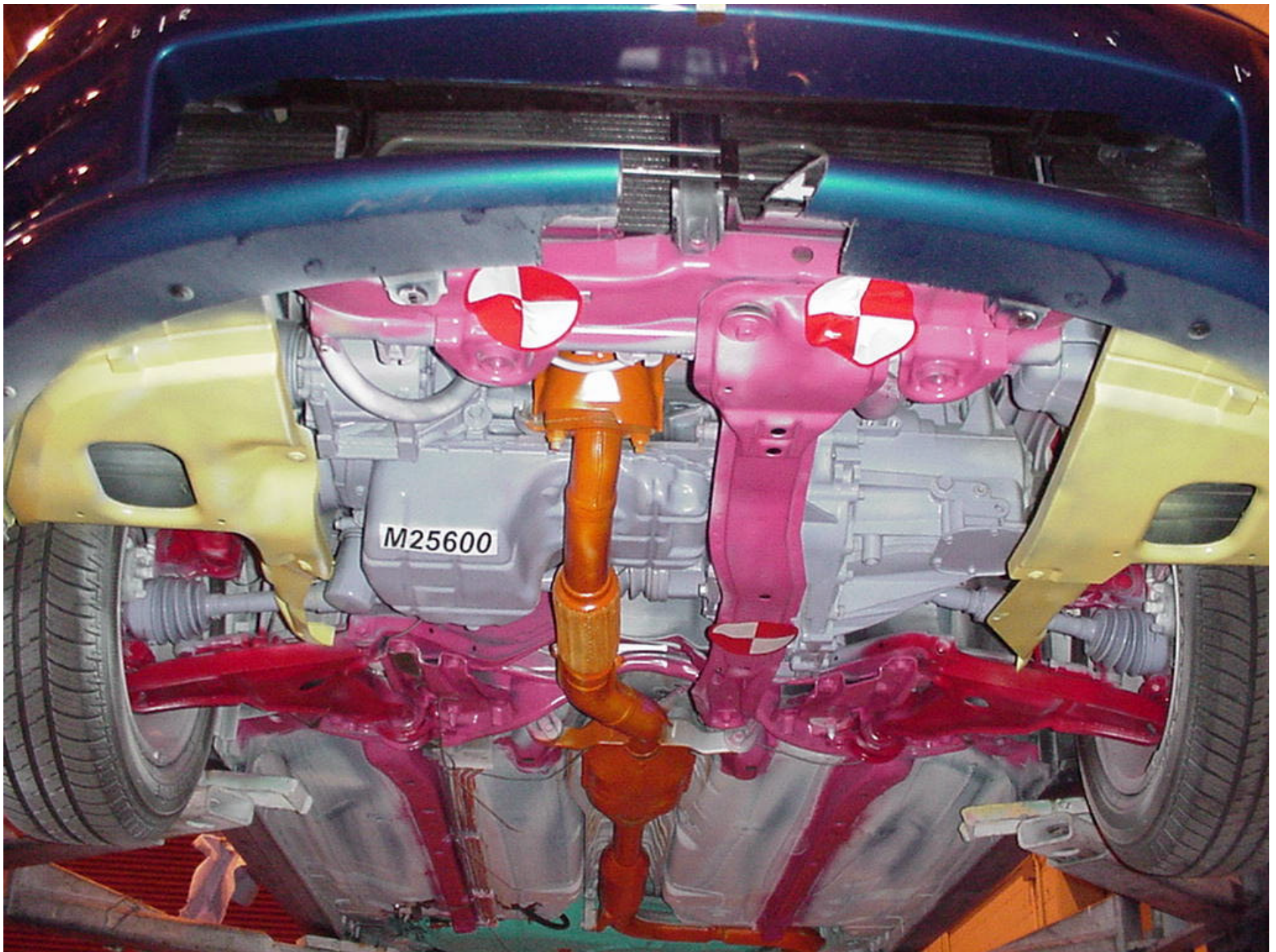


Figure A-16 PRE-TEST FRONT UNDERBODY VIEW



Figure A-17 POST-TEST FRONT UNDERBODY VIEW

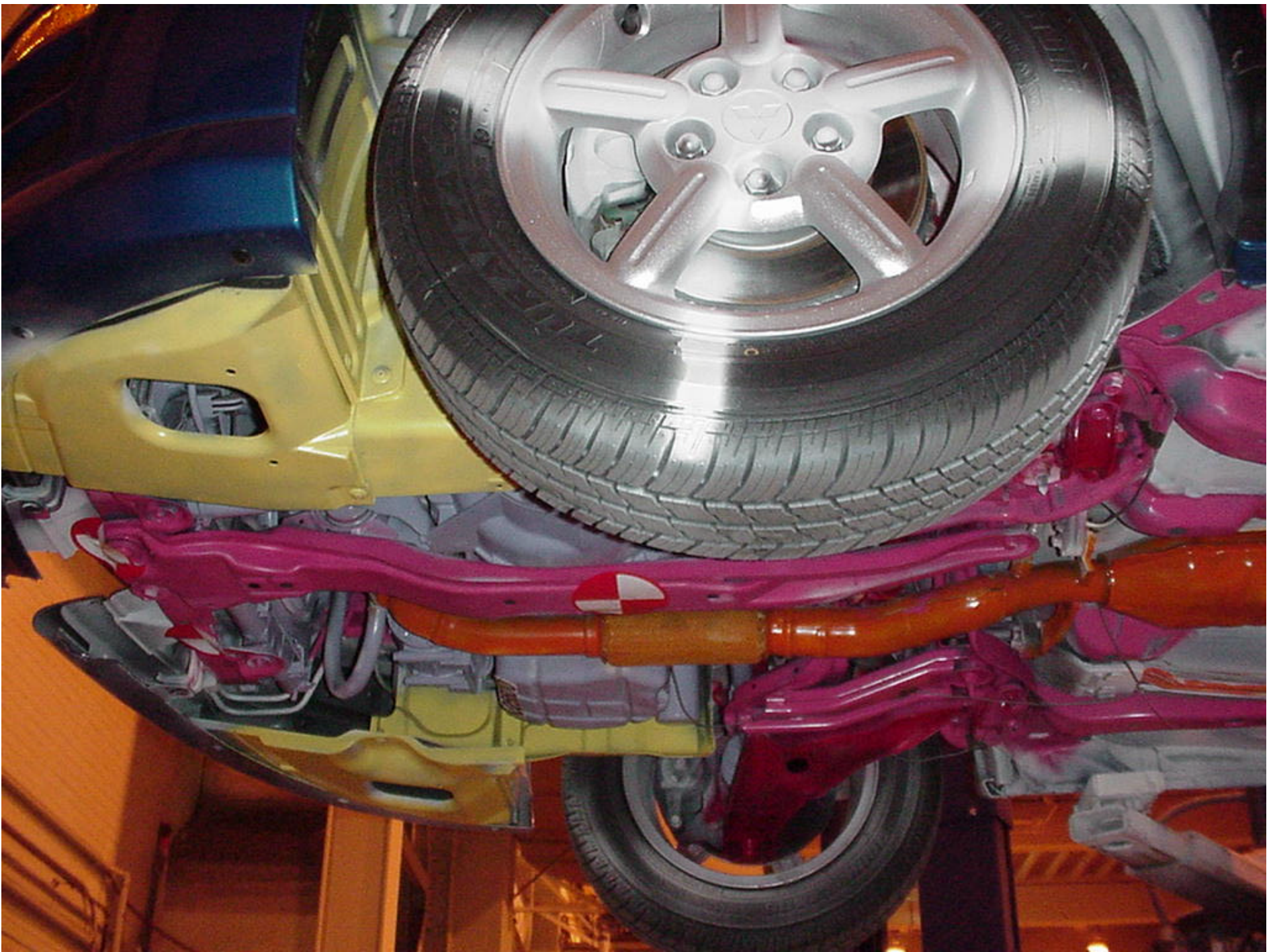


Figure A-18 PRE-TEST FRONT SIDE UNDERBODY VIEW

PHOTOGRAPH NOT AVAILABLE

Figure A-19 POST-TEST FRONT SIDE UNDERBODY VIEW

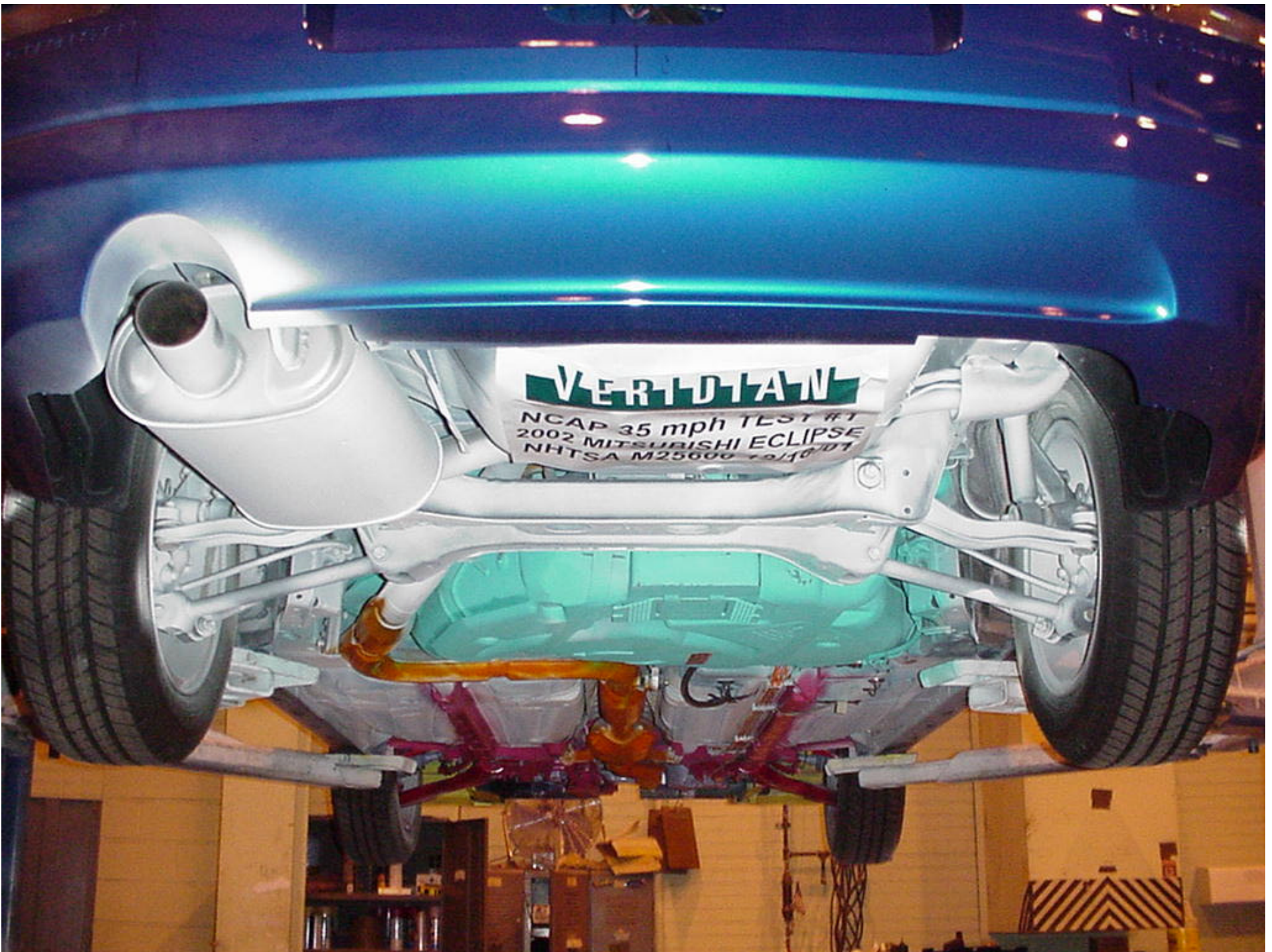


Figure A-20 PRE-TEST REAR UNDERBODY VIEW



Figure A-21 POST-TEST REAR UNDERBODY VIEW



Figure A-22 PRE-TEST DRIVER POSITION VIEW



Figure A-23 POST-TEST DRIVER POSITION VIEW



Figure A-24 PRE-TEST PASSENGER POSITION VIEW



Figure A-25 POST-TEST PASSENGER POSITION VIEW



Figure A-26 PRE-TEST DRIVER AND INTERIOR VIEW



Figure A-27 POST-TEST DRIVER AND INTERIOR VIEW



Figure A-28 PRE-TEST PASSENGER AND INTERIOR VIEW



Figure A-29 POST-TEST PASSENGER AND INTERIOR VIEW



Figure A-30 PRE-TEST DRIVER HEAD LOCATION



Figure A-31 POST-TEST DRIVER HEAD LOCATION

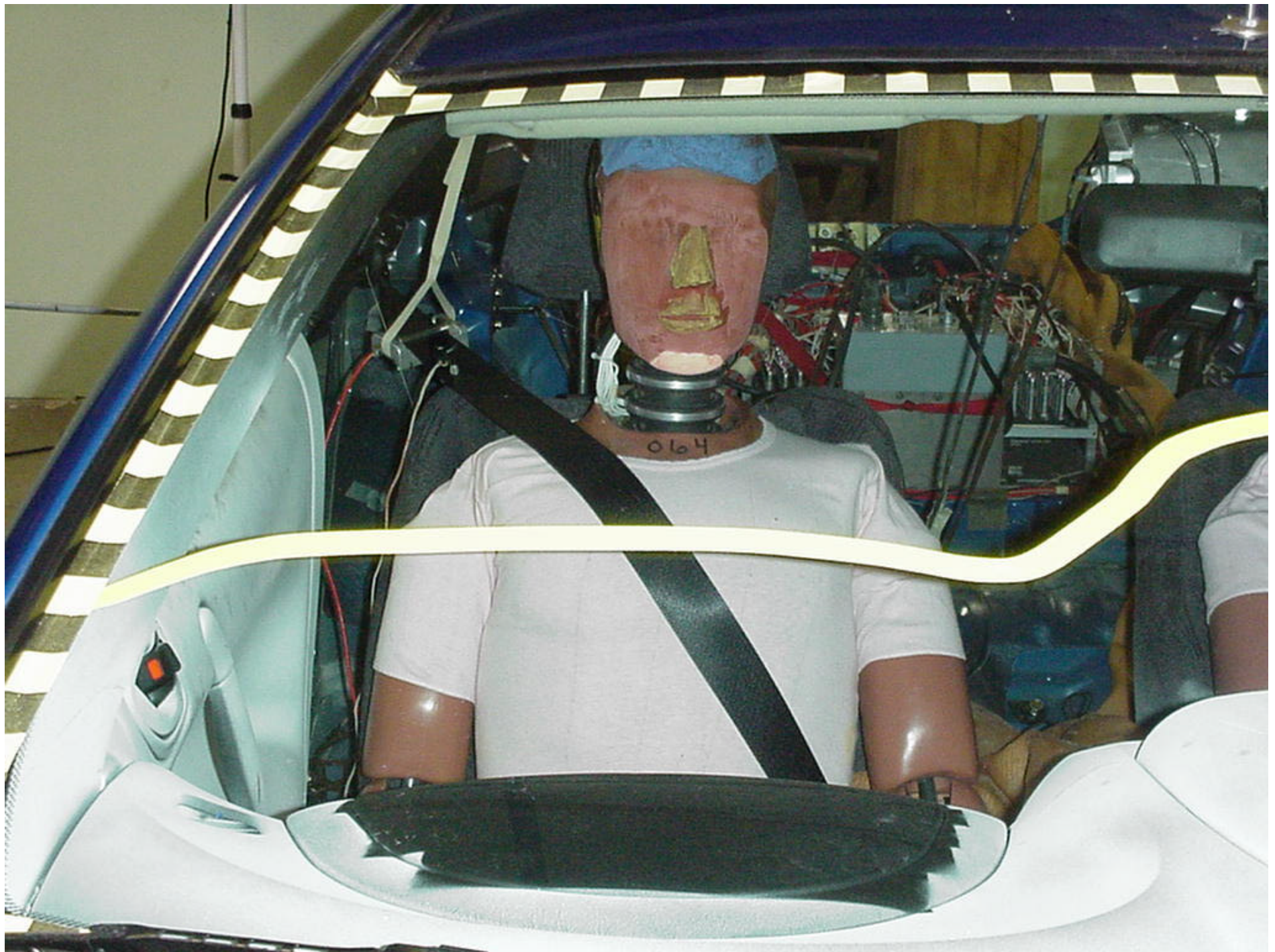


Figure A-32 PRE-TEST PASSENGER HEAD LOCATION



Figure A-33 POST-TEST PASSENGER HEAD LOCATION



Figure A-34 PRE-TEST DRIVER FLOOR PAN VIEW



Figure A-35 POST-TEST DRIVER FLOOR PAN VIEW



Figure A-36 PRE-TEST PASSENGER FLOOR PAN VIEW



Figure A-37 POST-TEST PASSENGER FLOOR PAN VIEW



Figure A-38 ROLLOVER VIEW



Figure A-39 IMPACT VIEW

APPENDIX B

DUMMY, VEHICLE AND LOAD CELL BARRIER RESPONSE DATA

**Hybrid III Dummy Sign Conventions
Load Cells and Special Transducers**

Transducer	SAE Sign Convention (positive unless noted)
Upper Neck Load Cell	Fx Head rearward Fy Head left Fz Neck in tension Mx Left ear to left shoulder My Chin to chest (flexion) Mz Chin to left shoulder (look left)
Chest Displacement Potentiometer	Compression is negative
Pelvic Load Cell (Lower Lumbar)	Fx Chest rearward Fy Chest left Fz Spine in tension
Femur Load Cell	Compression is negative
Upper Tibia Load Cell (right and left leg)	Mx Support tibia at ends, load left side center My Support tibia at ends, load front (shin) center
Lower Tibia Load Cell (right and left leg)	Fz Tibia in tension Mx Support tibia at ends, load left side center My Support tibia at ends, load front (shin) center

DATA CHANNEL FILTER CLASS SUMMARY

NHTSA TEST NO.

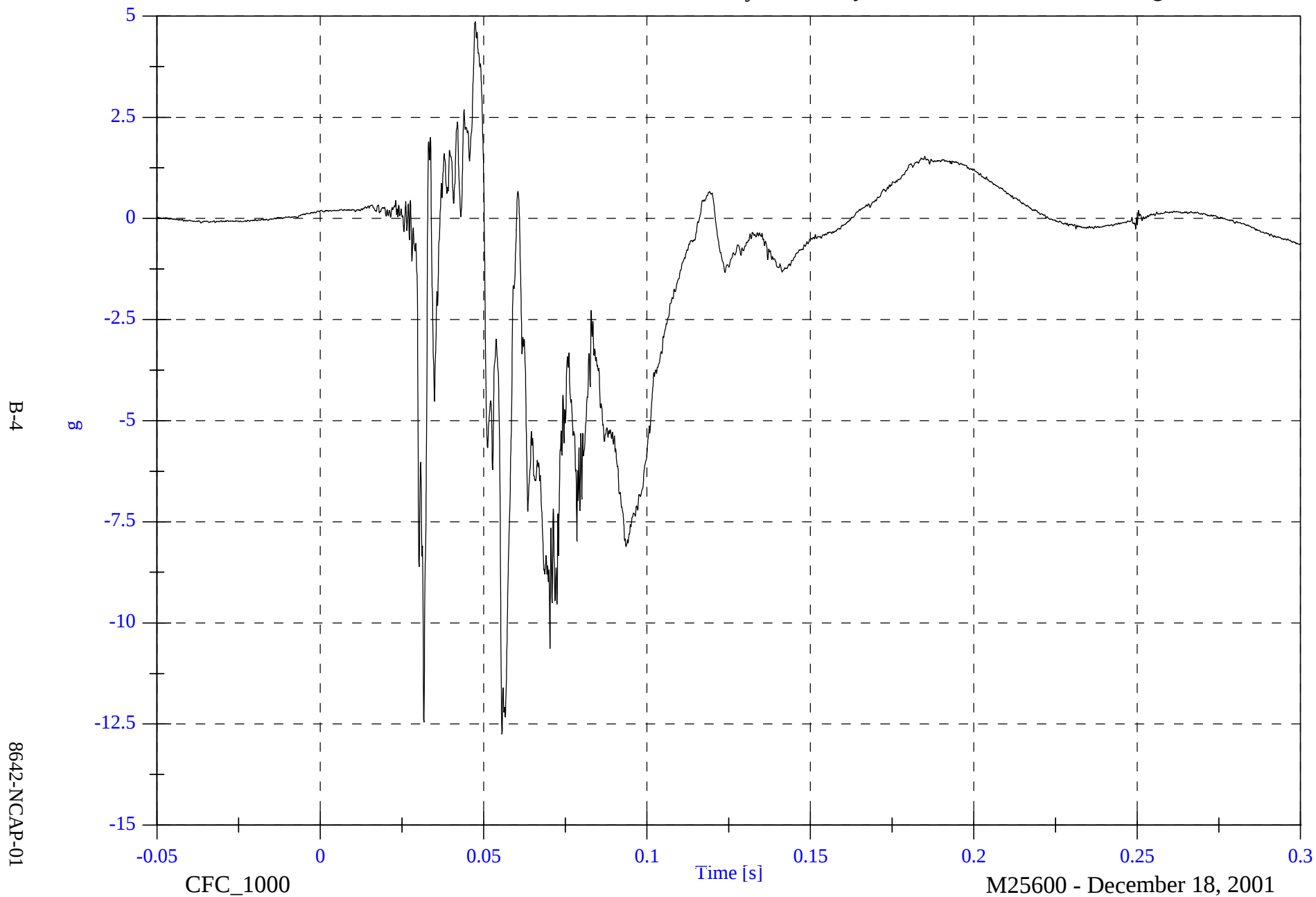
DATA TYPE	SAE FILTER CLASS (Hz)
Dummy Head Accelerations	1000
Dummy Chest Accelerations	180
Dummy Chest Displacements	60
Dummy Femur Forces	600
Dummy Belt Loads	60
Dummy Belt Displacements	180
Dummy Neck Forces	1000
Dummy Neck Moments	600
Vehicle Accelerations	60
Vehicle Velocity Integrations	180
Vehicle Displacement Integrations	180
Load Cell Barrier Forces	60

2002 NCAP Test 1-2002 Mitsubishi Eclipse

P1 Head 9 Array X Arm Ay

Max: 4.9 [g] at 0.047 [s]

Min: -12.7 [g] at 0.056 [s]



2002 NCAP Test 1-2002 Mitsubishi Eclipse

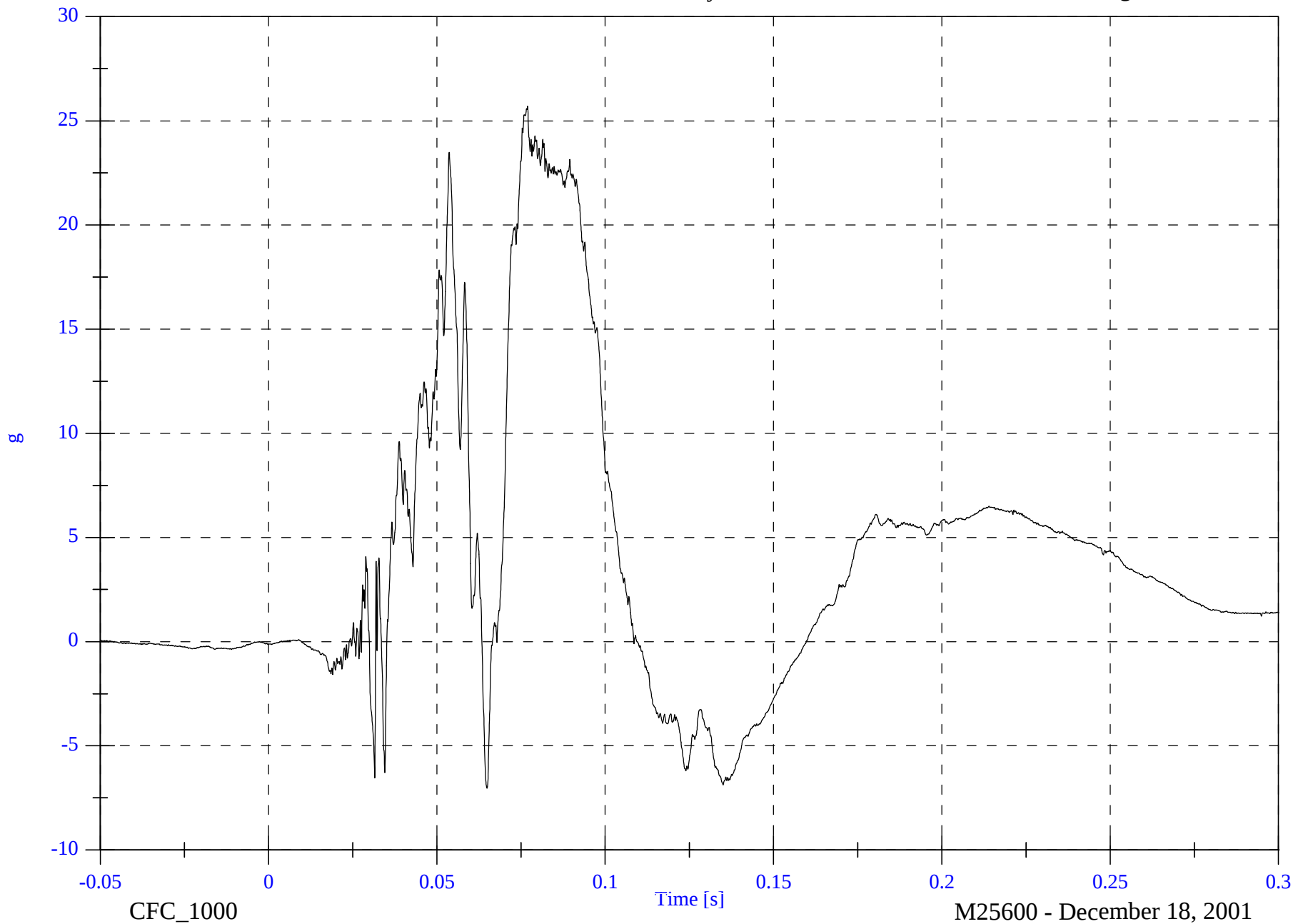
P1 Head 9 Array X Arm Az

Max: 25.7 [g] at 0.077 [s]

Min: -7.0 [g] at 0.065 [s]

B-5

8642-NCAP-01

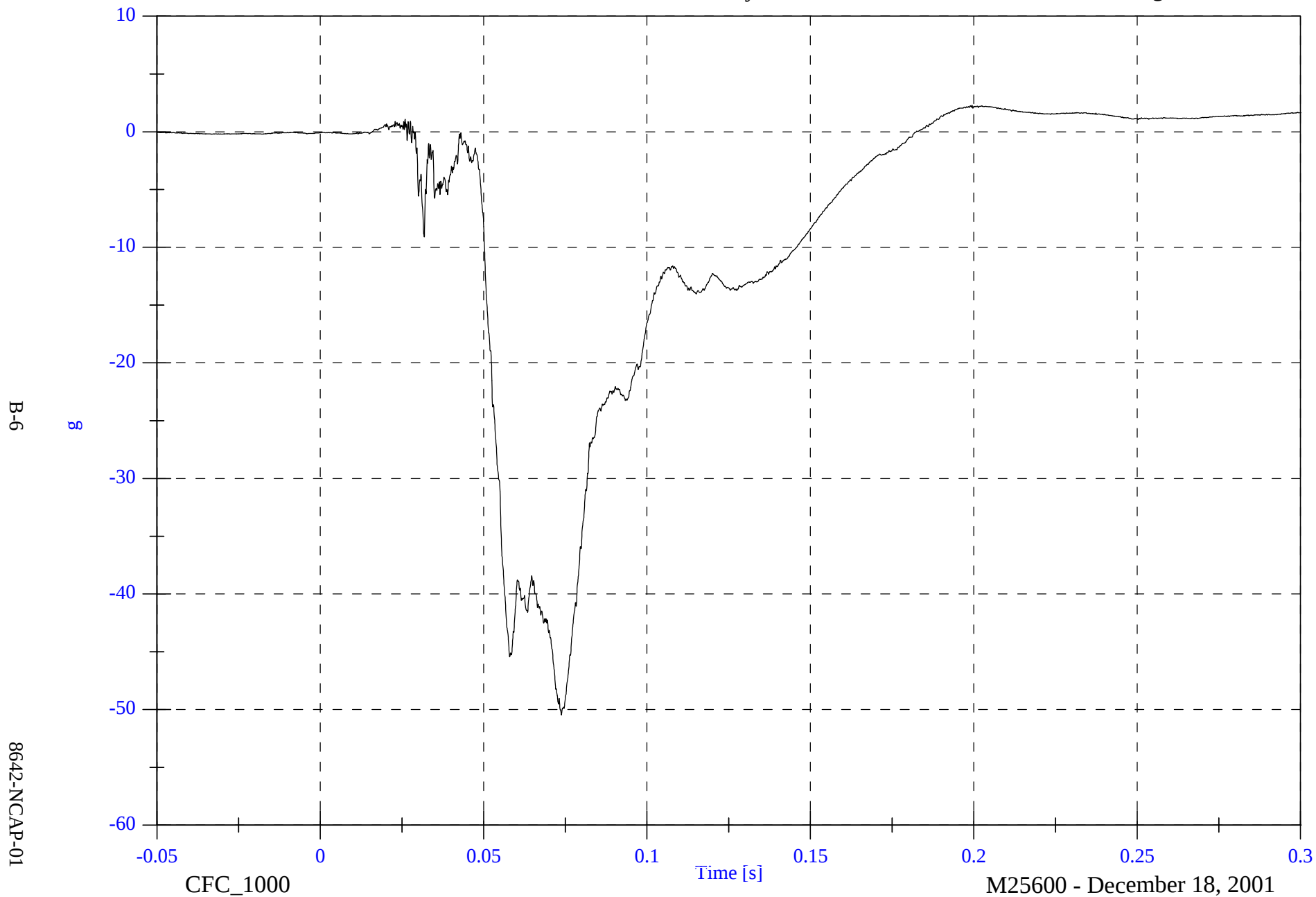


2002 NCAP Test 1-2002 Mitsubishi Eclipse

P1 Head 9 Array Y Arm Ax

Max: 2.3 [g] at 0.199 [s]

Min: -50.5 [g] at 0.074 [s]



2002 NCAP Test 1-2002 Mitsubishi Eclipse

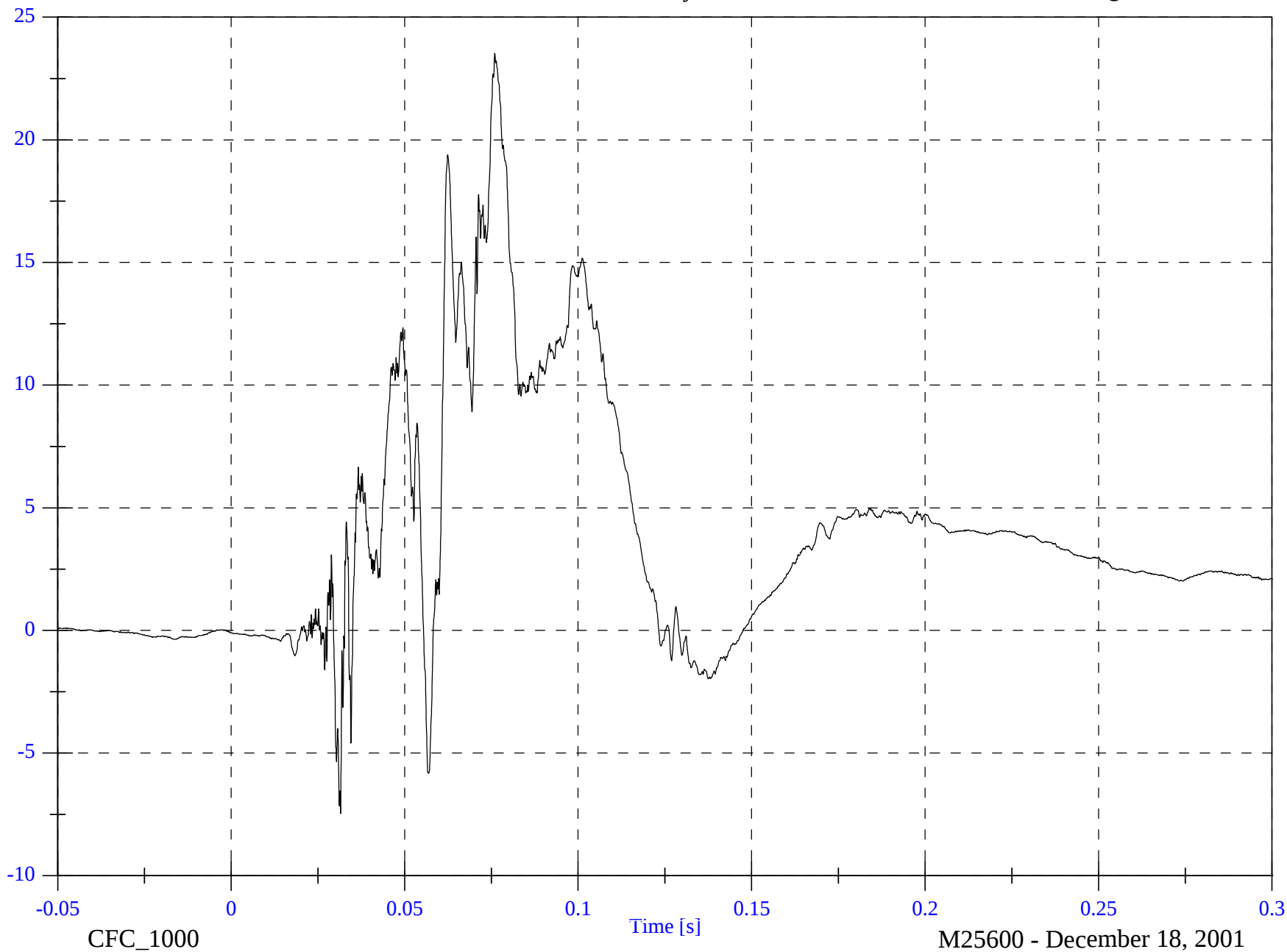
P1 Head 9 Array Y Arm Az

Max: 23.5 [g] at 0.076 [s]

Min: -7.5 [g] at 0.032 [s]

B-7

8642-NCAP-01

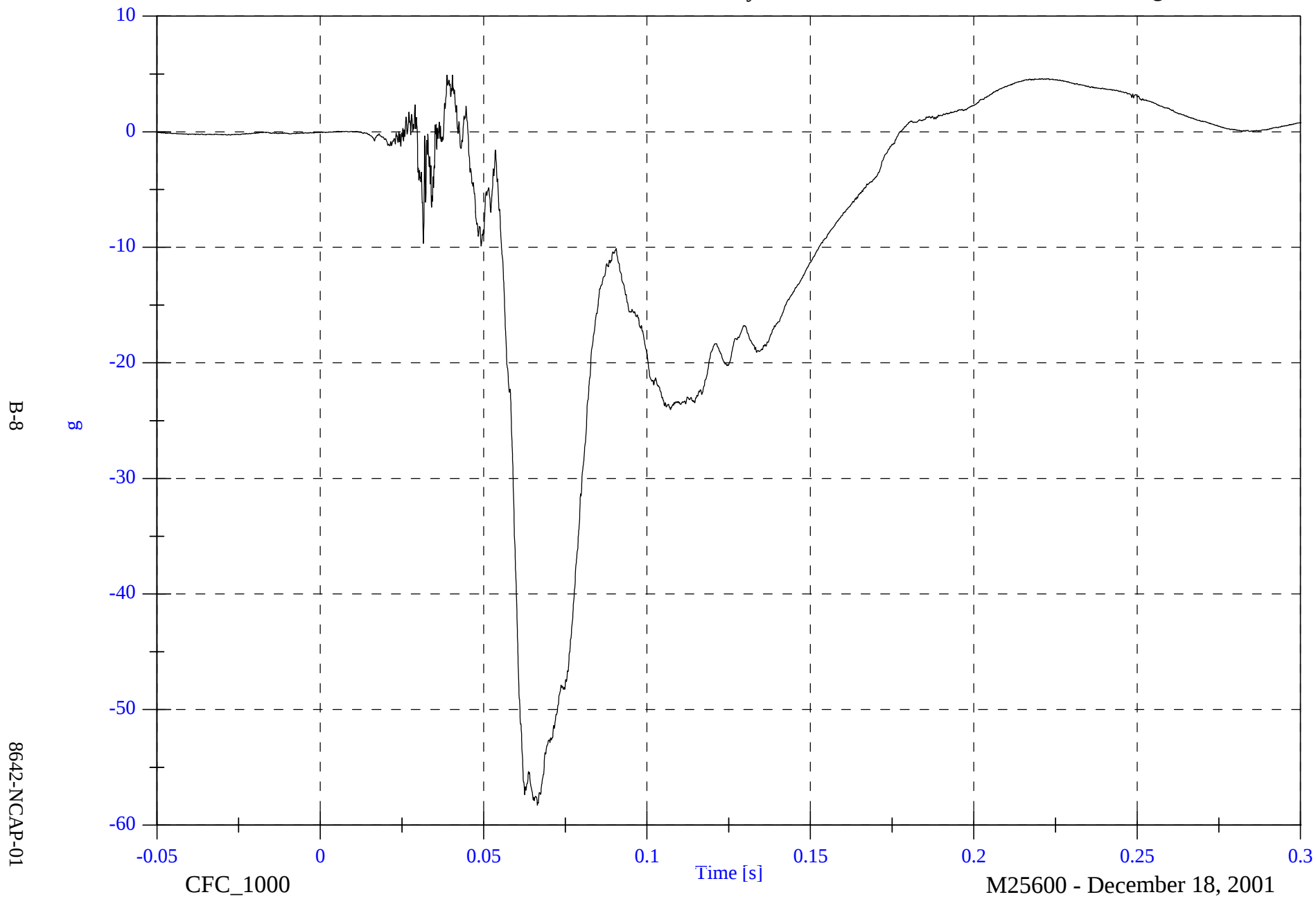


2002 NCAP Test 1-2002 Mitsubishi Eclipse

P1 Head 9 Array Z Arm Ax

Max: 4.9 [g] at 0.039 [s]

Min: -58.3 [g] at 0.066 [s]

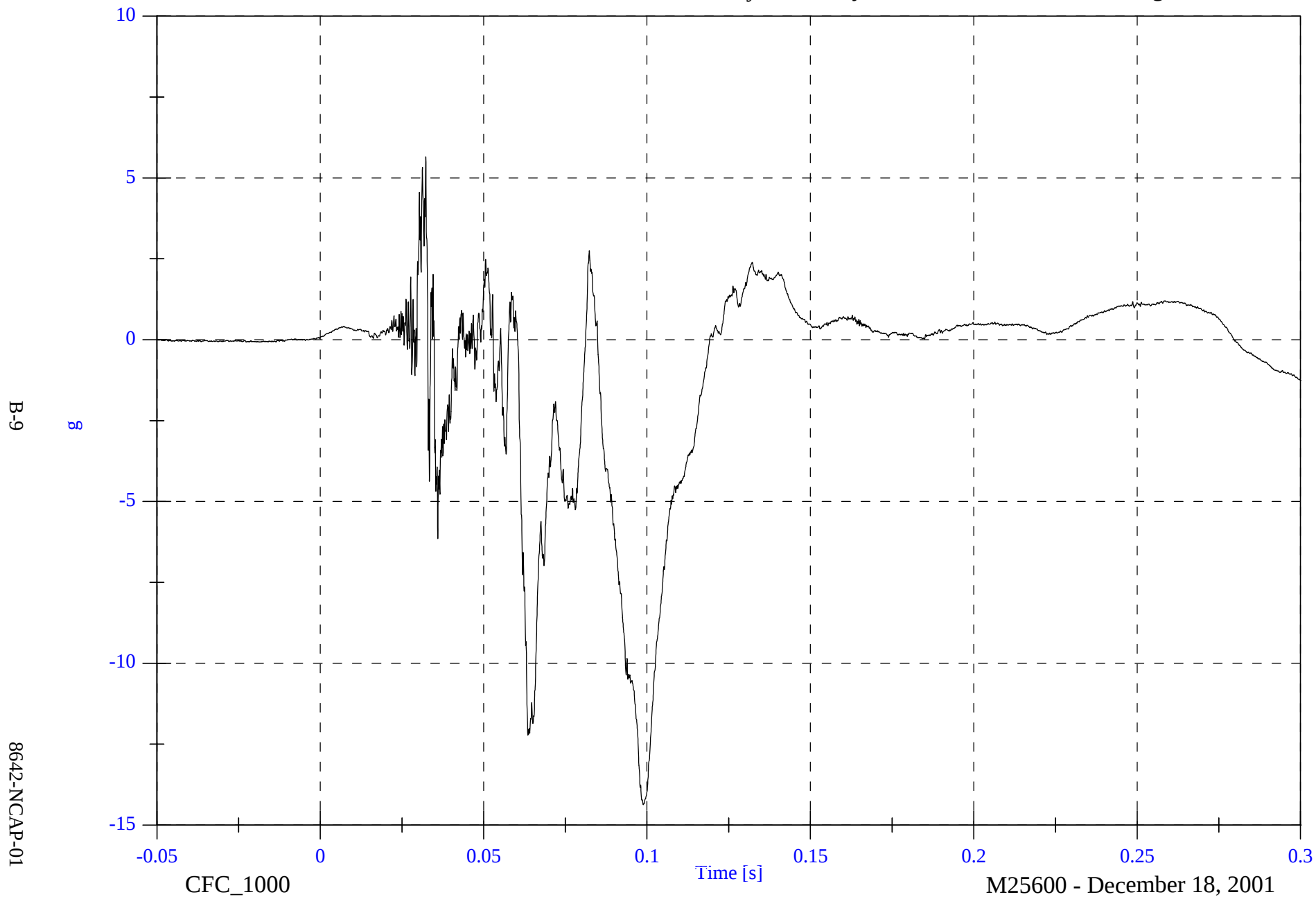


2002 NCAP Test 1-2002 Mitsubishi Eclipse

P1 Head 9 Array Z Arm Ay

Max: 5.7 [g] at 0.032 [s]

Min: -14.4 [g] at 0.099 [s]

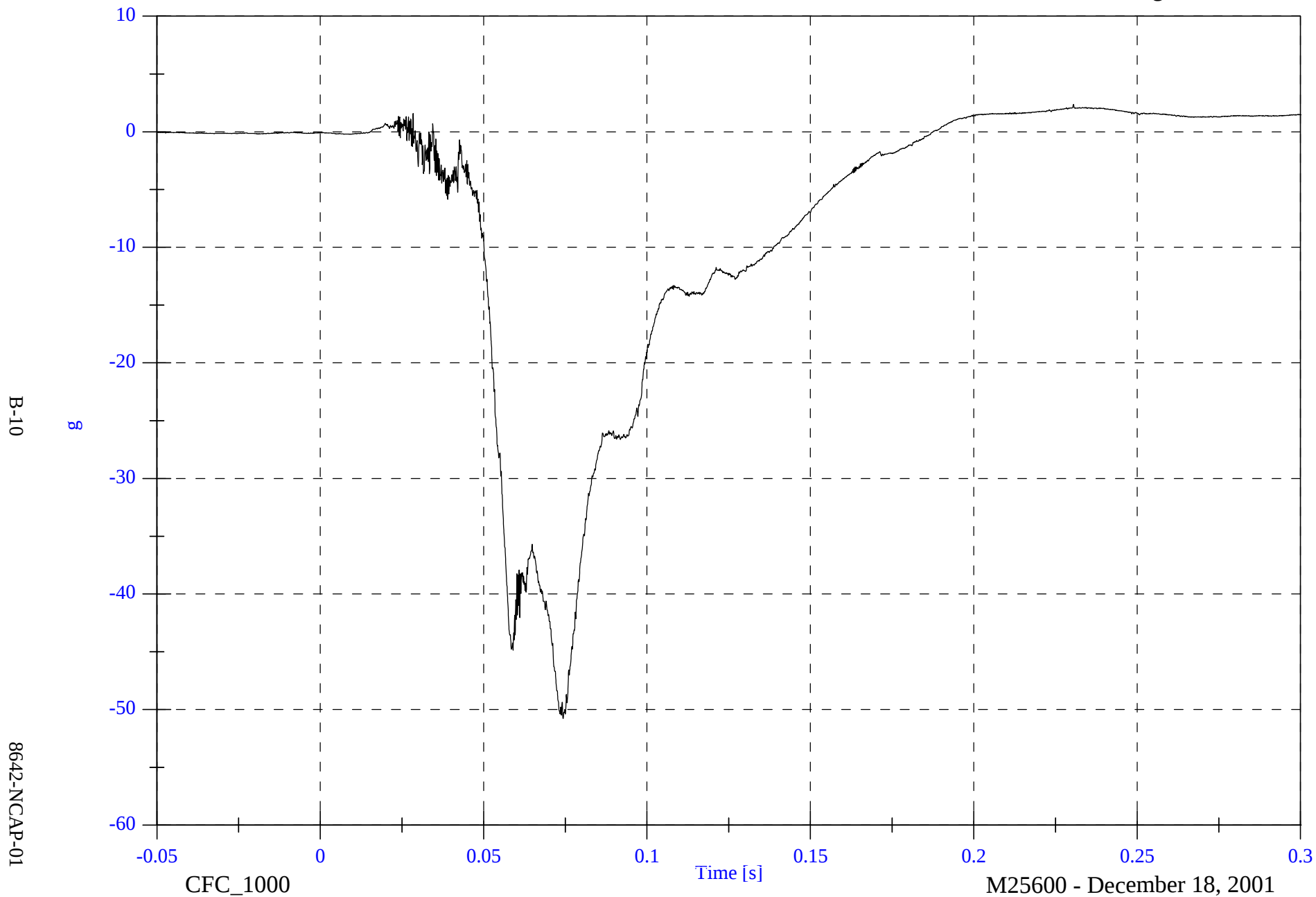


2002 NCAP Test 1-2002 Mitsubishi Eclipse

P1 Head CG x

Max: 2.4 [g] at 0.230 [s]

Min: -50.8 [g] at 0.074 [s]



2002 NCAP Test 1-2002 Mitsubishi Eclipse

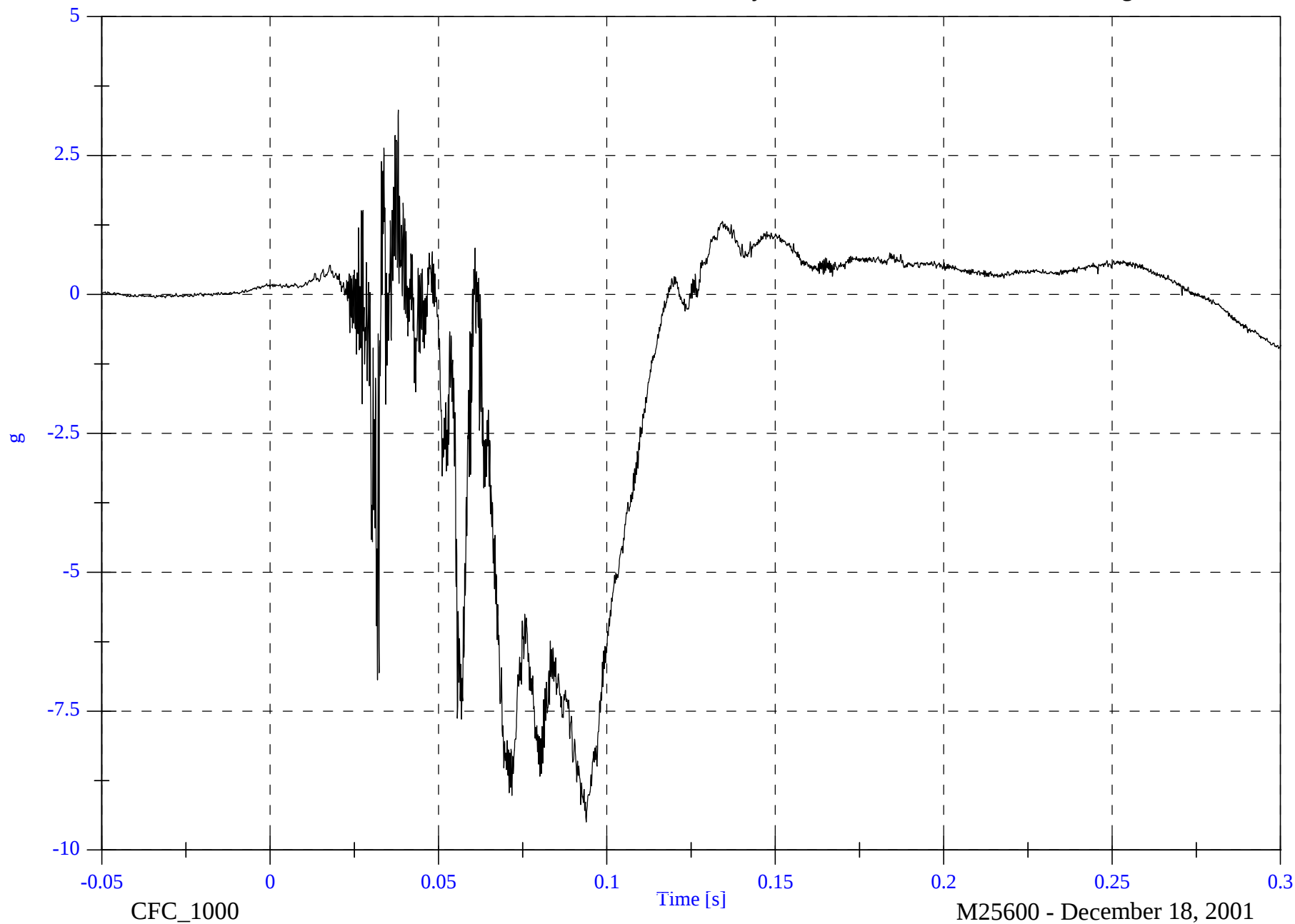
P1 Head CG y

Max: 3.3 [g] at 0.038 [s]

Min: -9.5 [g] at 0.094 [s]

B-11

8642-NCAP-01



2002 NCAP Test 1-2002 Mitsubishi Eclipse

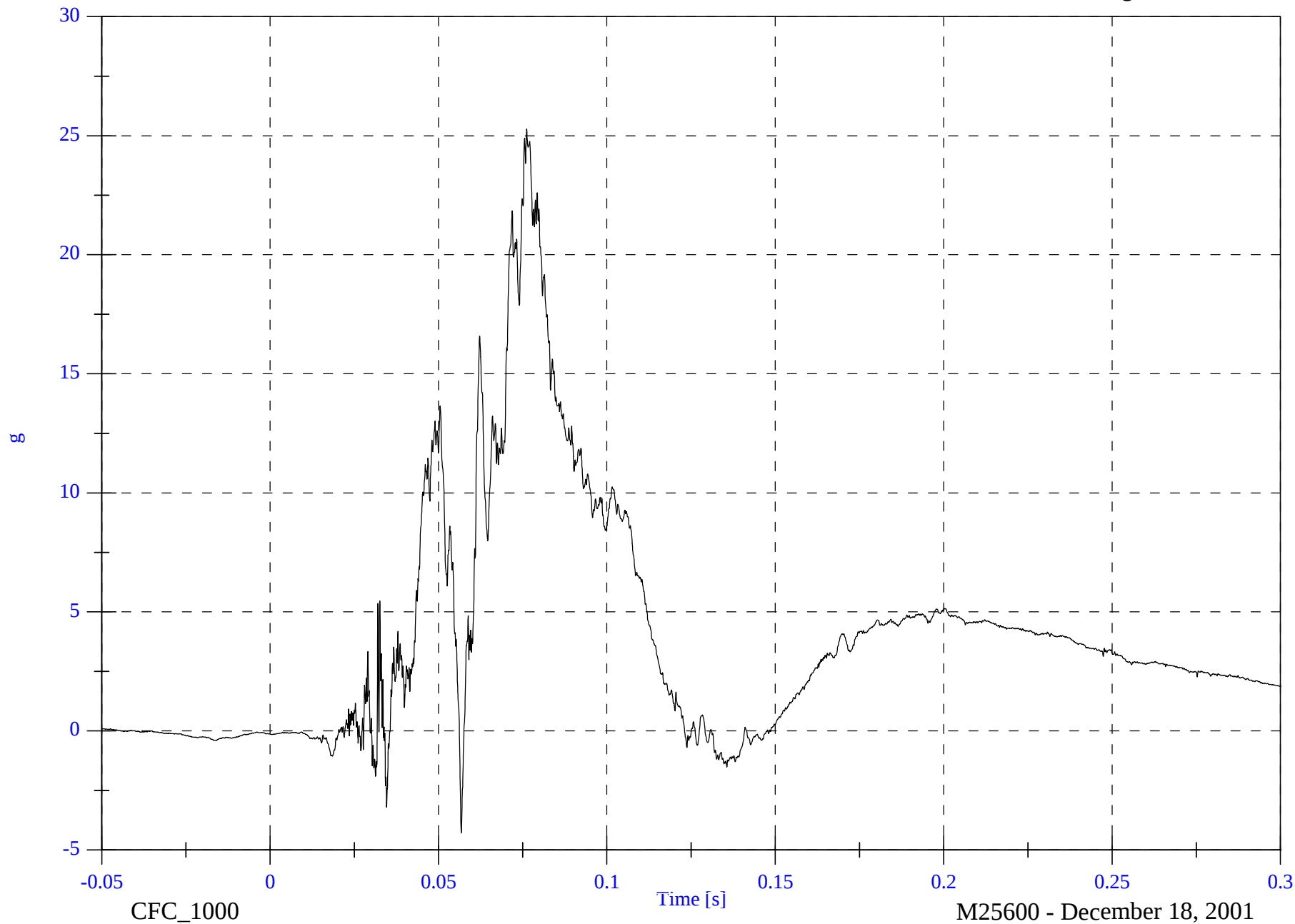
P1 Head CG z

Max: 25.3 [g] at 0.076 [s]

Min: -4.3 [g] at 0.057 [s]

B-12

8642-NCAP-01



2002 NCAP Test 1-2002 Mitsubishi Eclipse

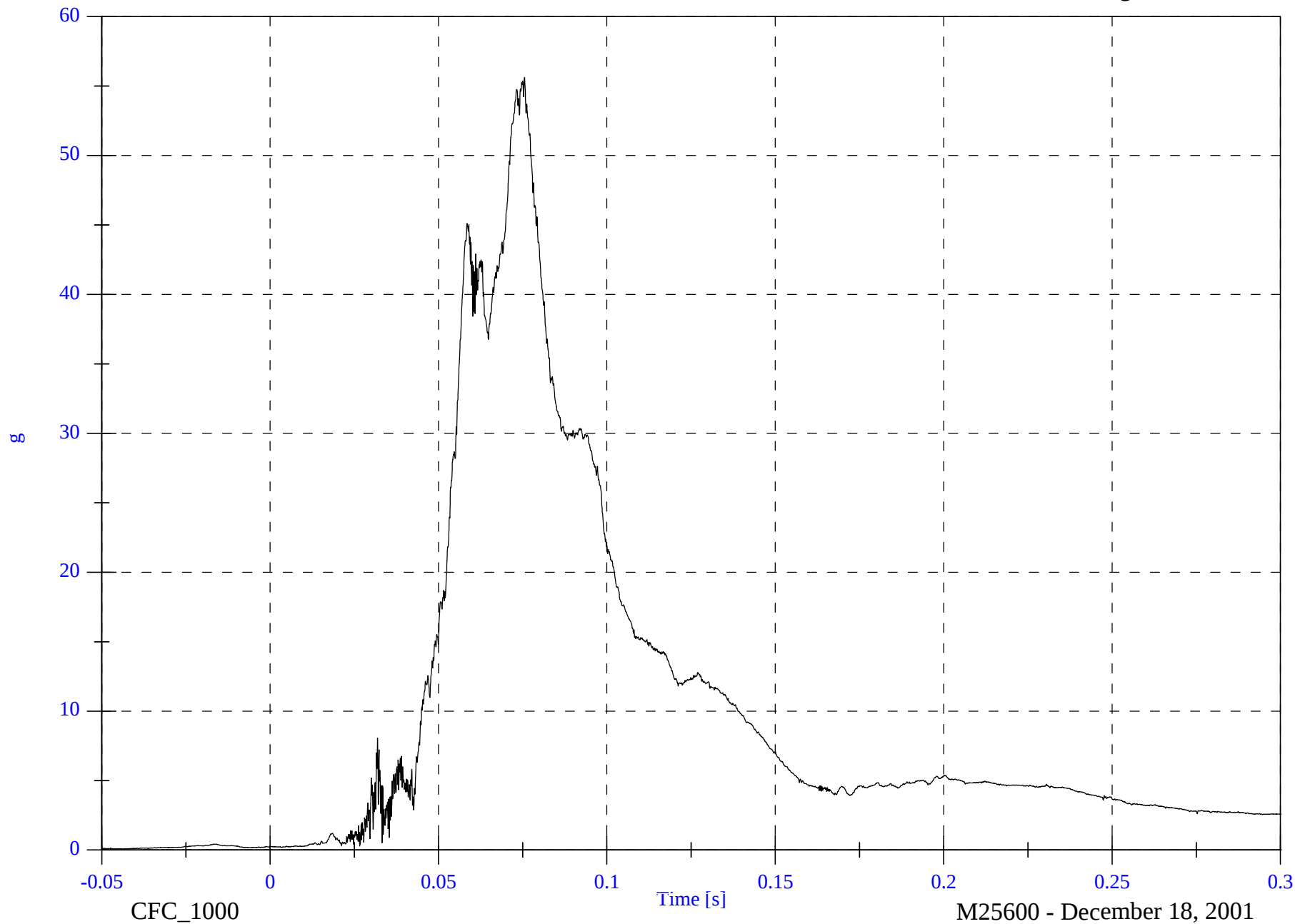
P1 Head CG Resultant

Max: 55.6 [g] at 0.076 [s]

Min: 0.1 [g] at -0.044 [s]

B-13

8642-NCAP-01

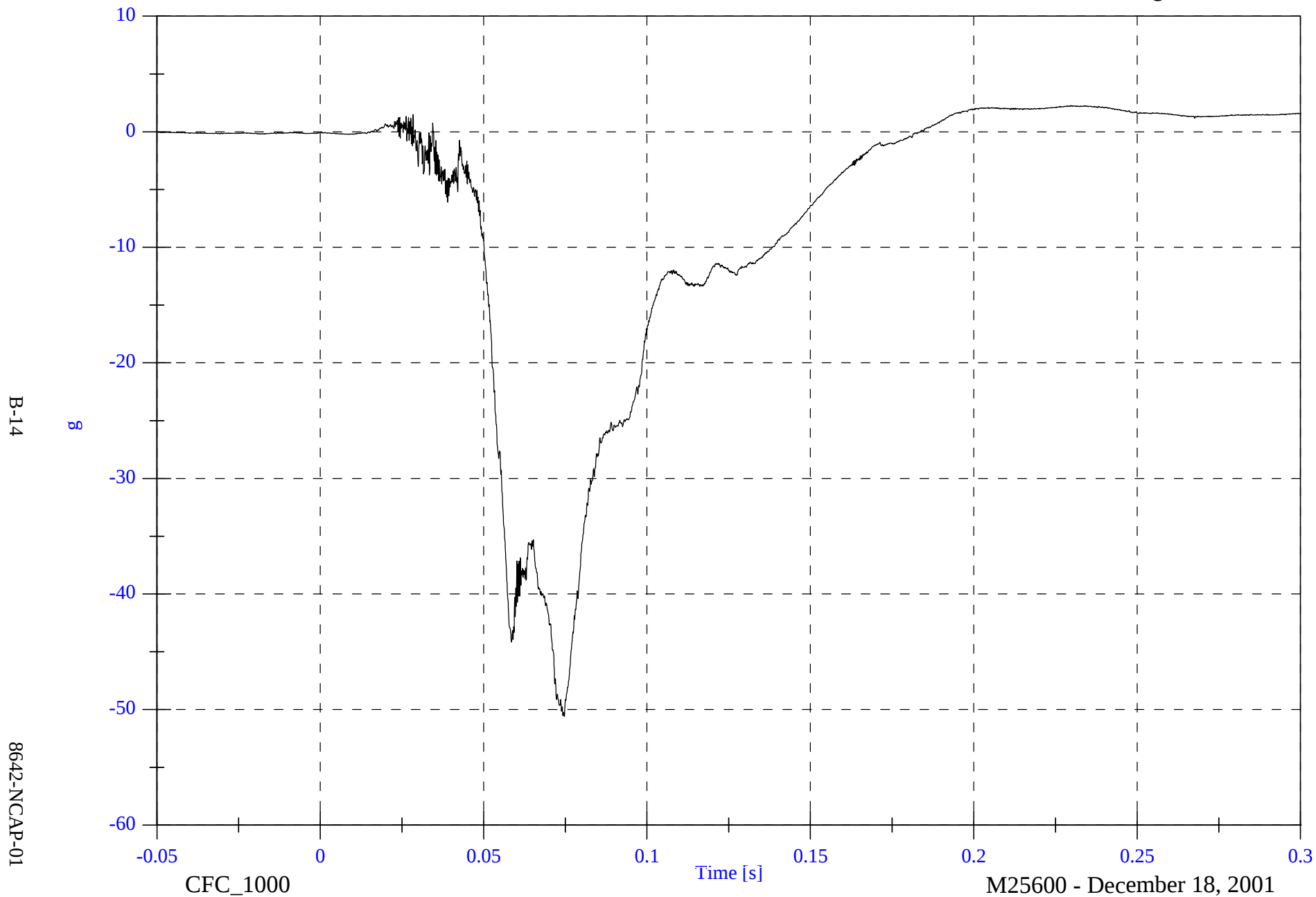


2002 NCAP Test 1-2002 Mitsubishi Eclipse

P1 Head CG Red x

Max: 2.3 [g] at 0.230 [s]

Min: -50.6 [g] at 0.075 [s]

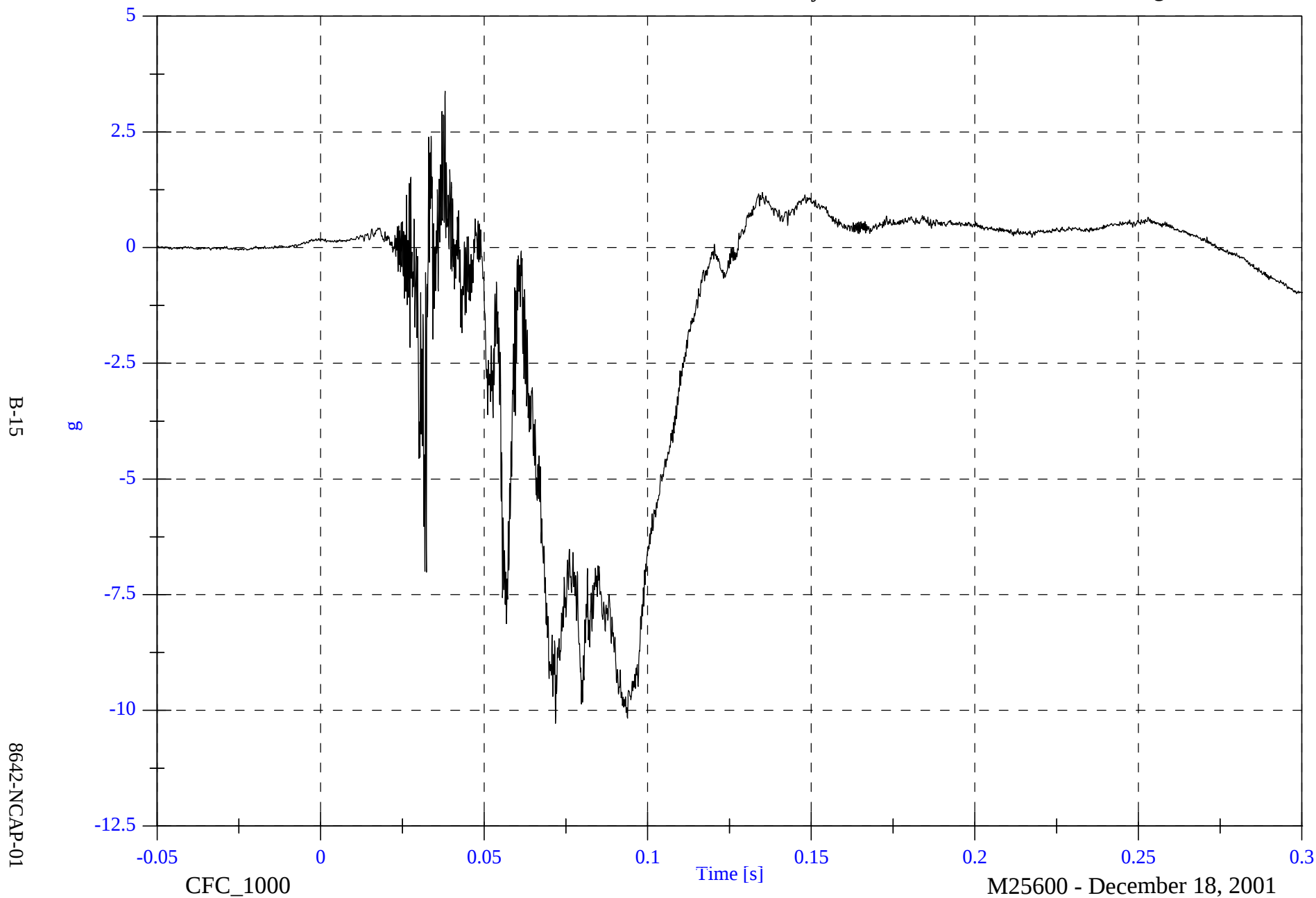


2002 NCAP Test 1-2002 Mitsubishi Eclipse

P1 Head CG Red y

Max: 3.4 [g] at 0.038 [s]

Min: -10.3 [g] at 0.072 [s]



2002 NCAP Test 1-2002 Mitsubishi Eclipse

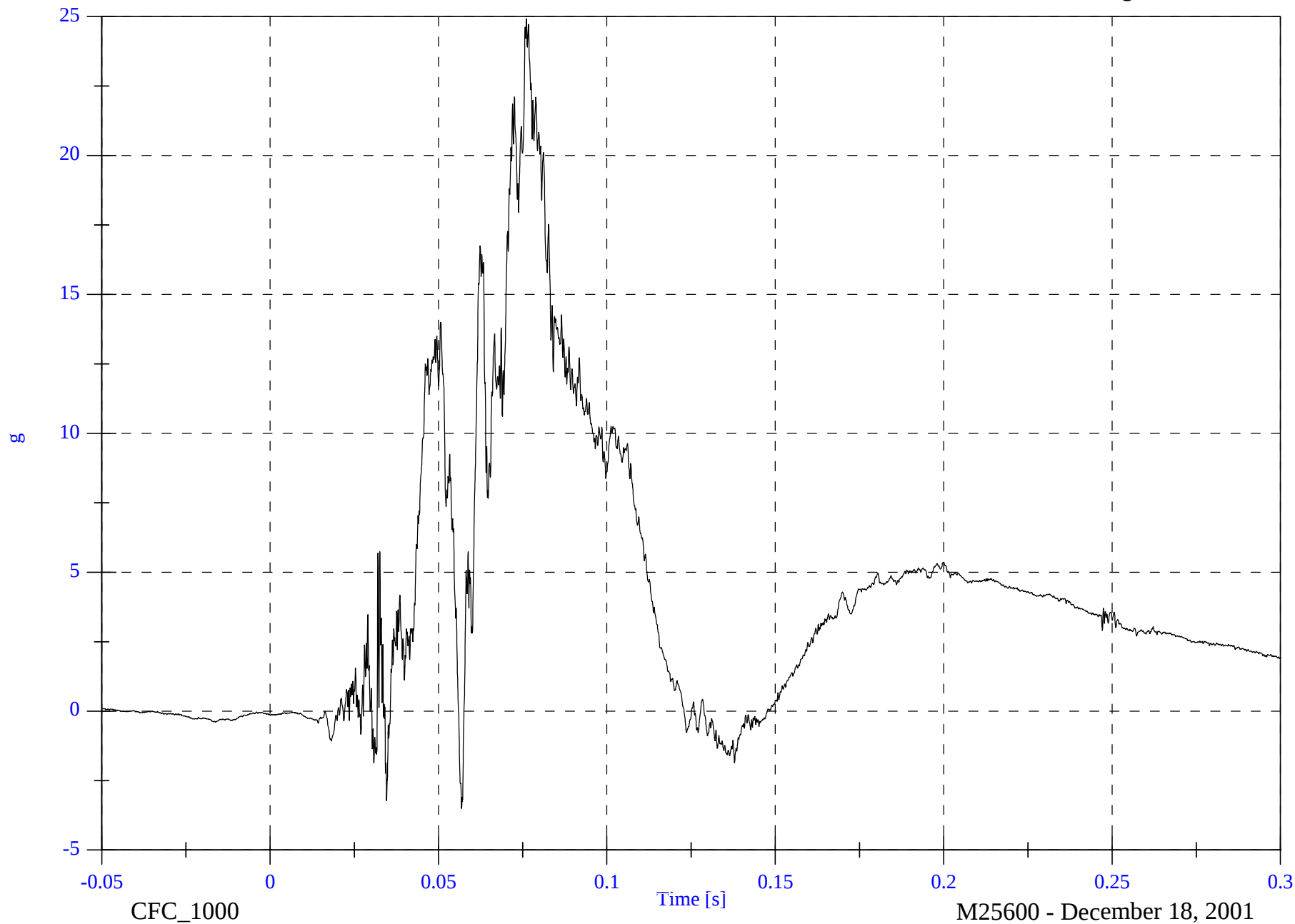
P1 Head CG Red z

Max: 24.9 [g] at 0.076 [s]

Min: -3.5 [g] at 0.057 [s]

B-16

8642-NCAP-01



2002 NCAP Test 1-2002 Mitsubishi Eclipse

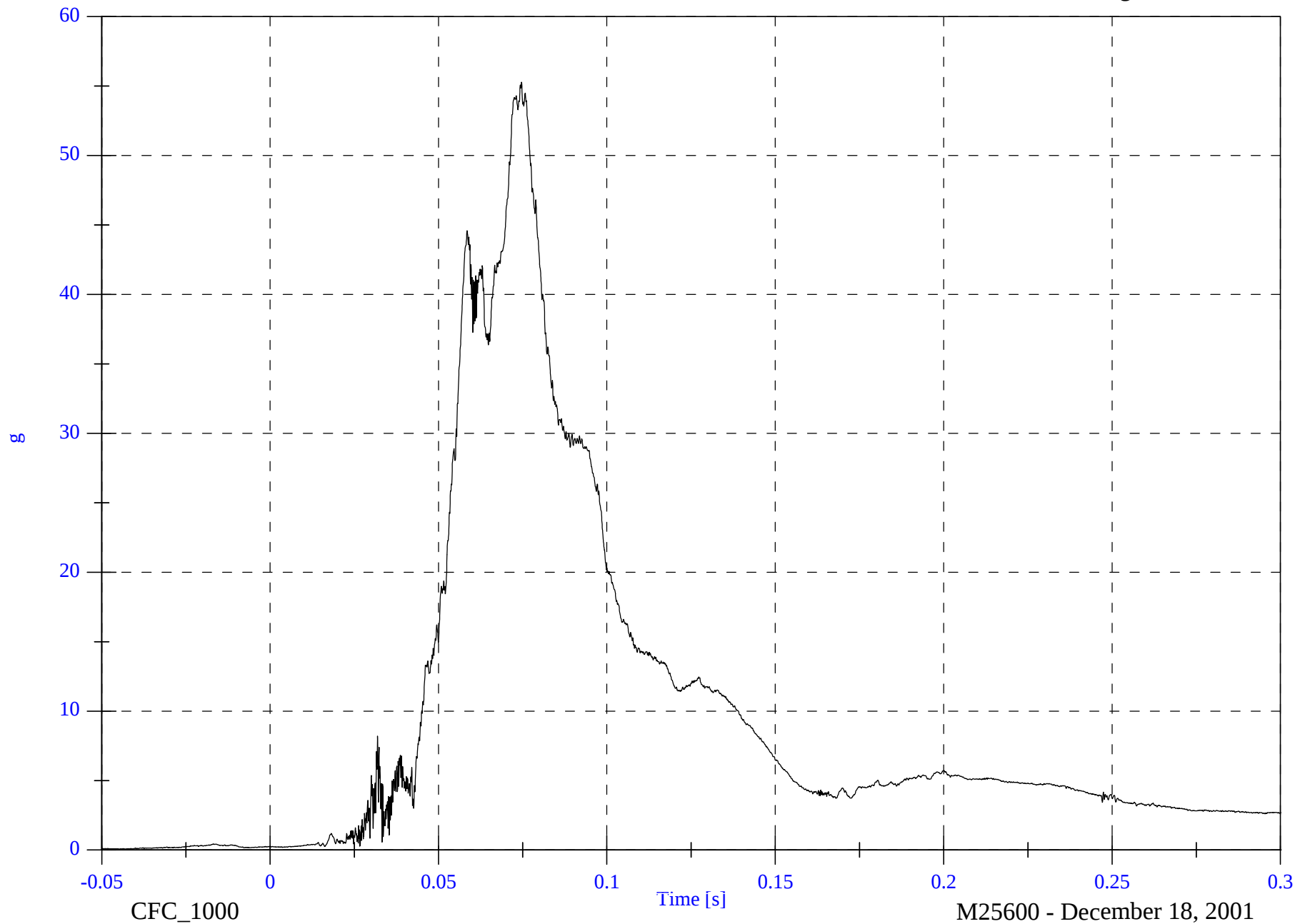
P1 Head CG Red Resultant

Max: 55.3 [g] at 0.075 [s]

Min: 0.1 [g] at -0.044 [s]

B-17

8642-NCAP-01

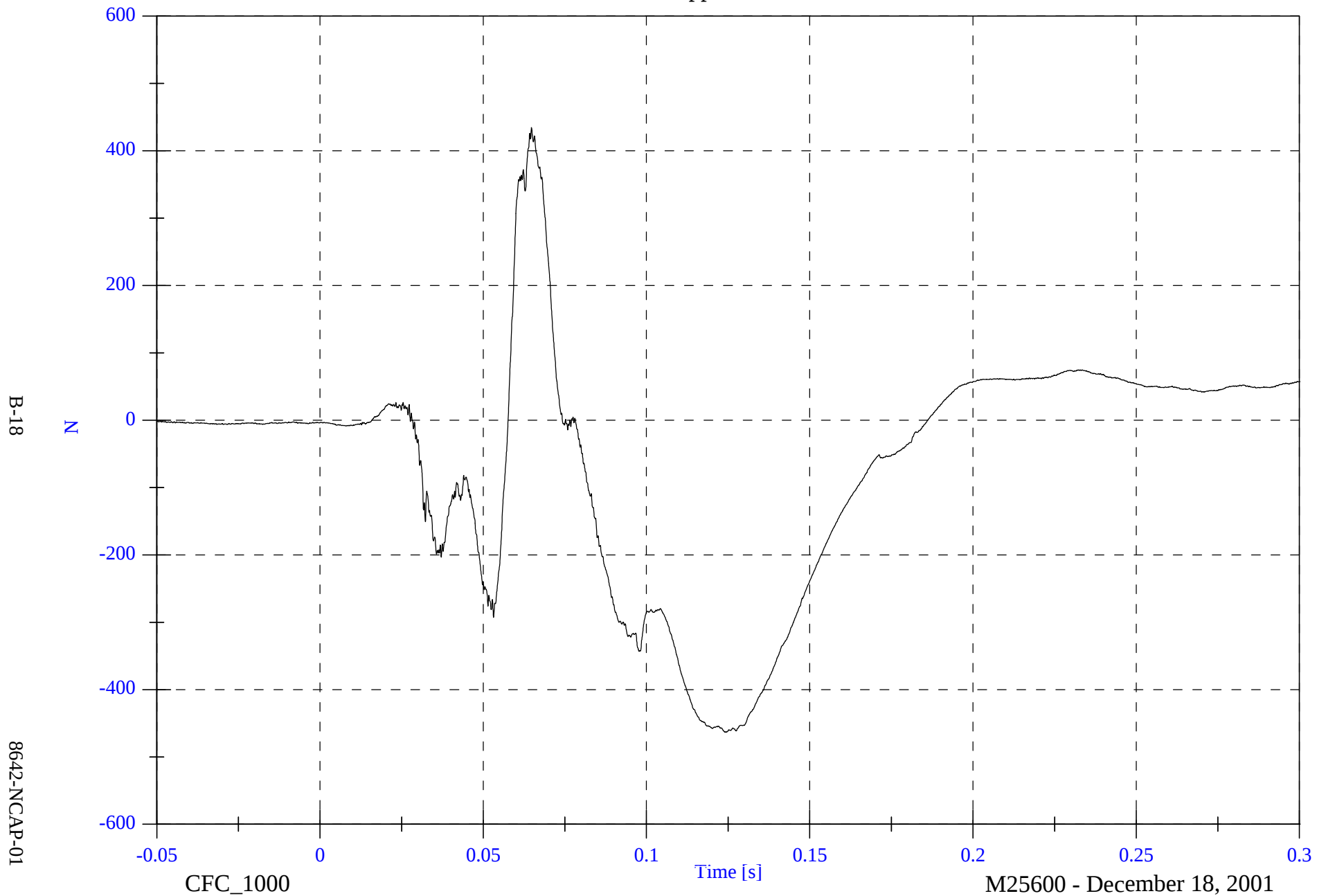


2002 NCAP Test 1-2002 Mitsubishi Eclipse

P1 Upper Neck Fx

Max: 434.5 [N] at 0.065 [s]

Min: -463.3 [N] at 0.125 [s]

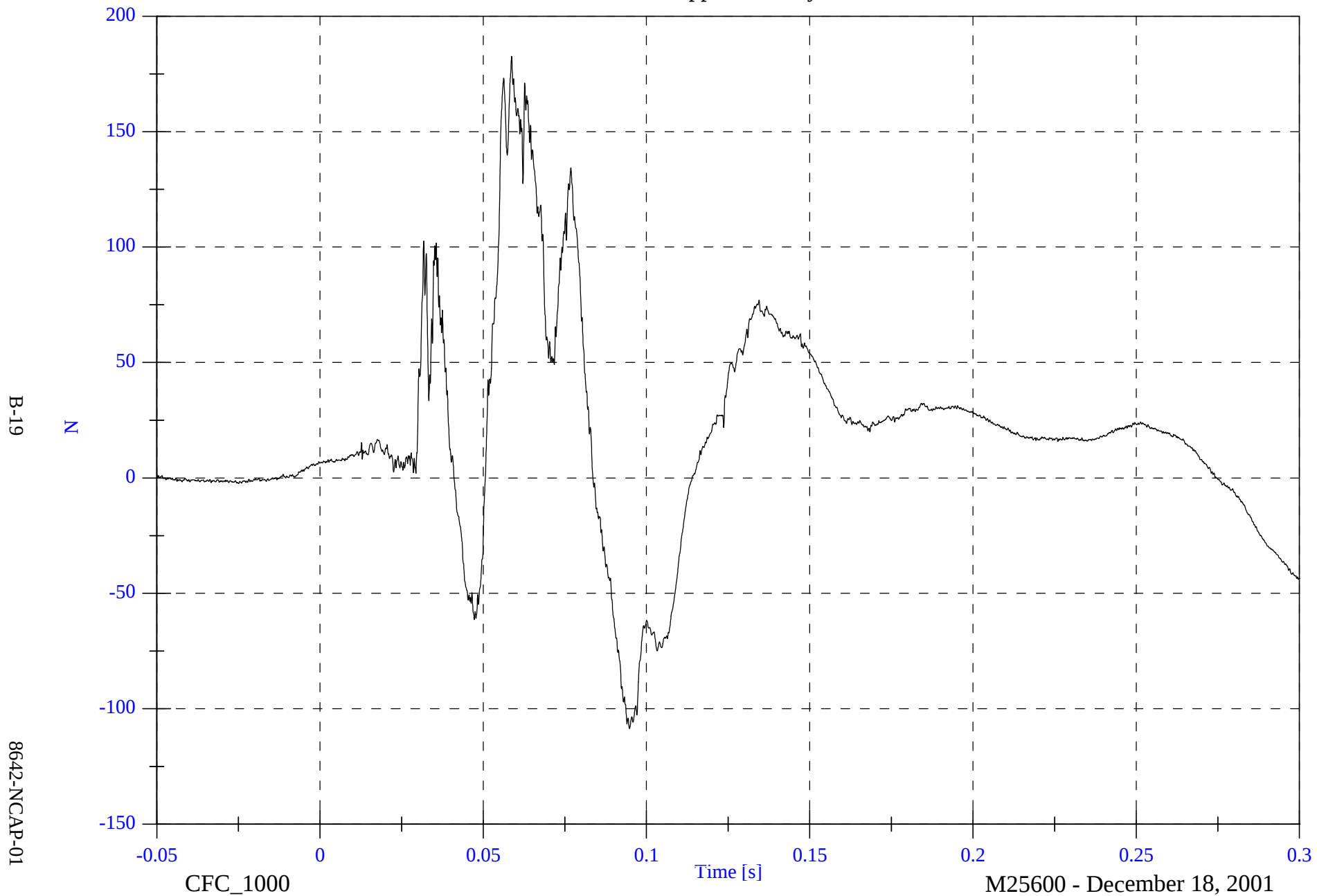


2002 NCAP Test 1-2002 Mitsubishi Eclipse

P1 Upper Neck Fy

Max: 182.5 [N] at 0.059 [s]

Min: -108.6 [N] at 0.095 [s]

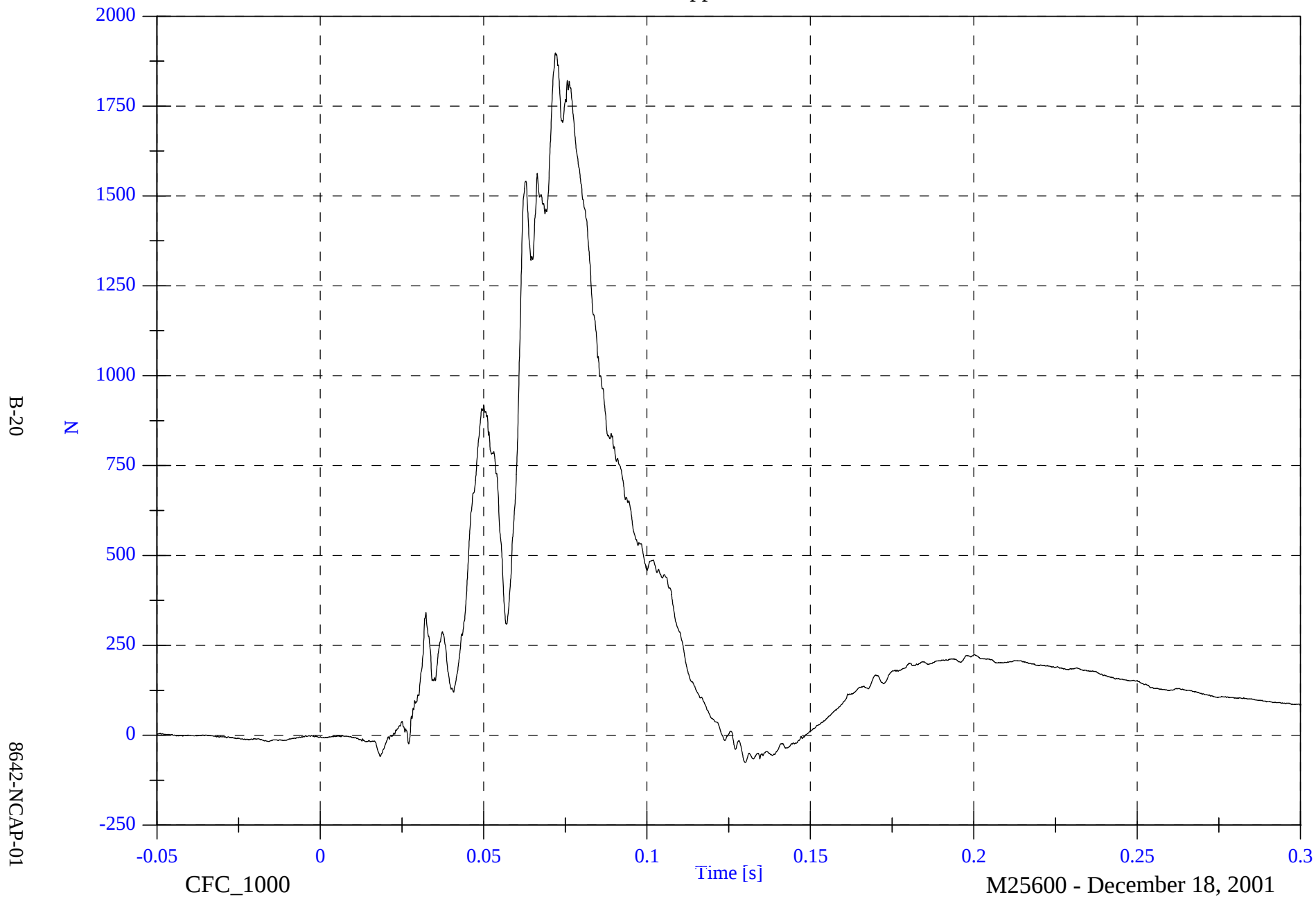


2002 NCAP Test 1-2002 Mitsubishi Eclipse

P1 Upper Neck Fz

Max: 1897.6 [N] at 0.072 [s]

Min: -75.7 [N] at 0.130 [s]



2002 NCAP Test 1-2002 Mitsubishi Eclipse

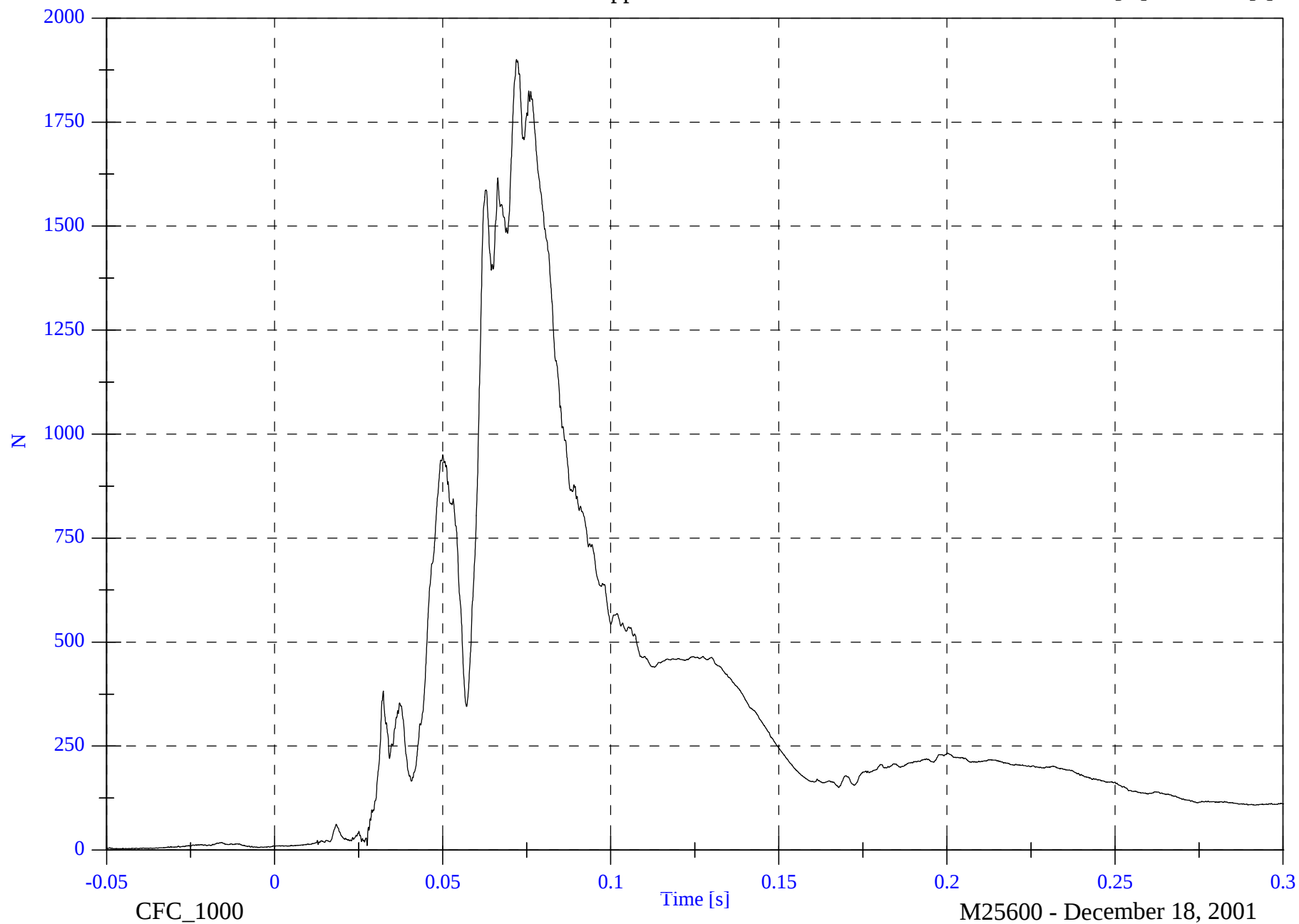
P1 Upper Neck F Resultant

Max: 1900.7 [N] at 0.072 [s]

Min: 2.5 [N] at -0.045 [s]

B-21

8642-NCAP-01



2002 NCAP Test 1-2002 Mitsubishi Eclipse

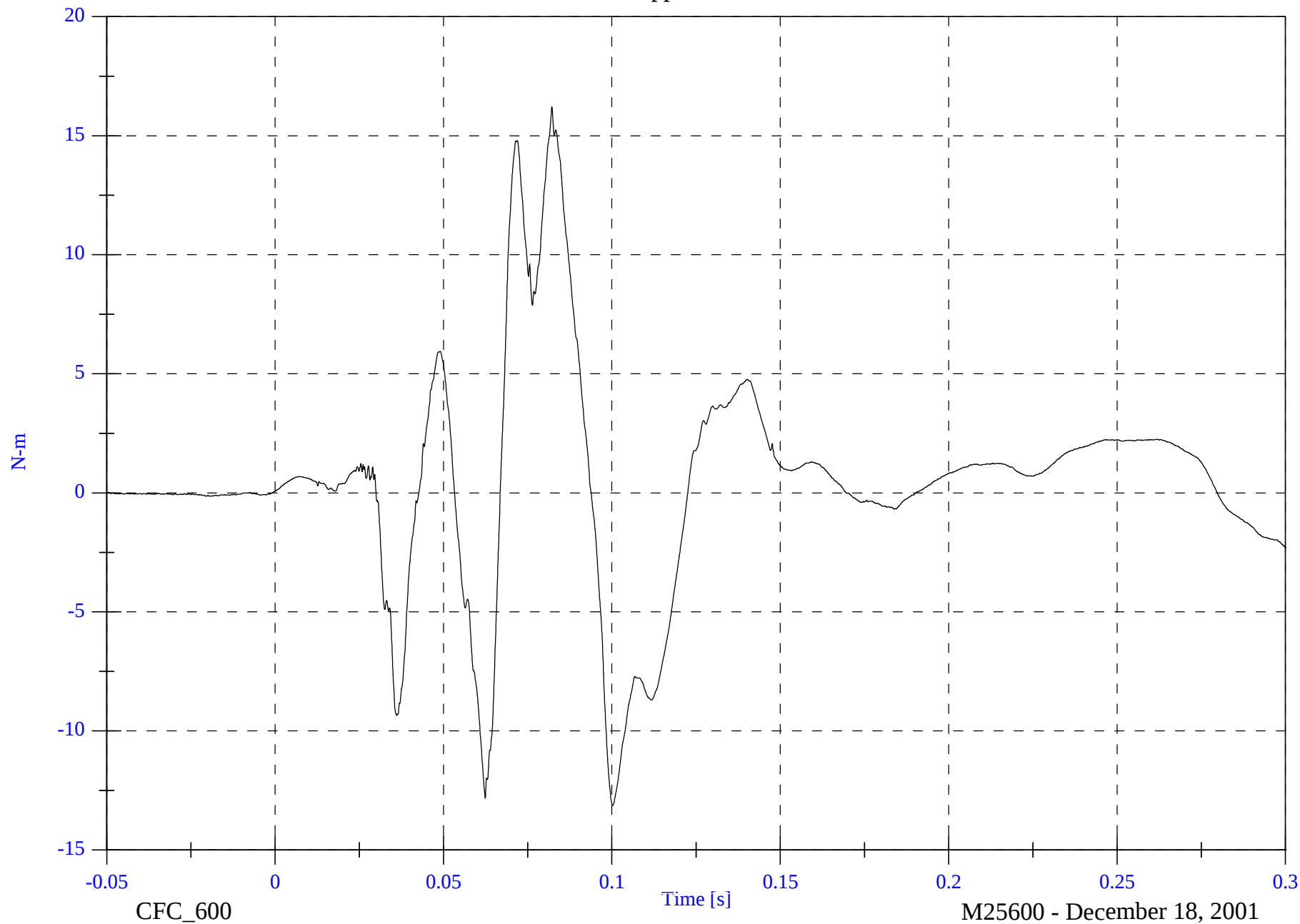
P1 Upper Neck Mx

Max: 16.2 [N-m] at 0.082 [s]

Min: -13.1 [N-m] at 0.100 [s]

B-22

8642-NCAP-01



2002 NCAP Test 1-2002 Mitsubishi Eclipse

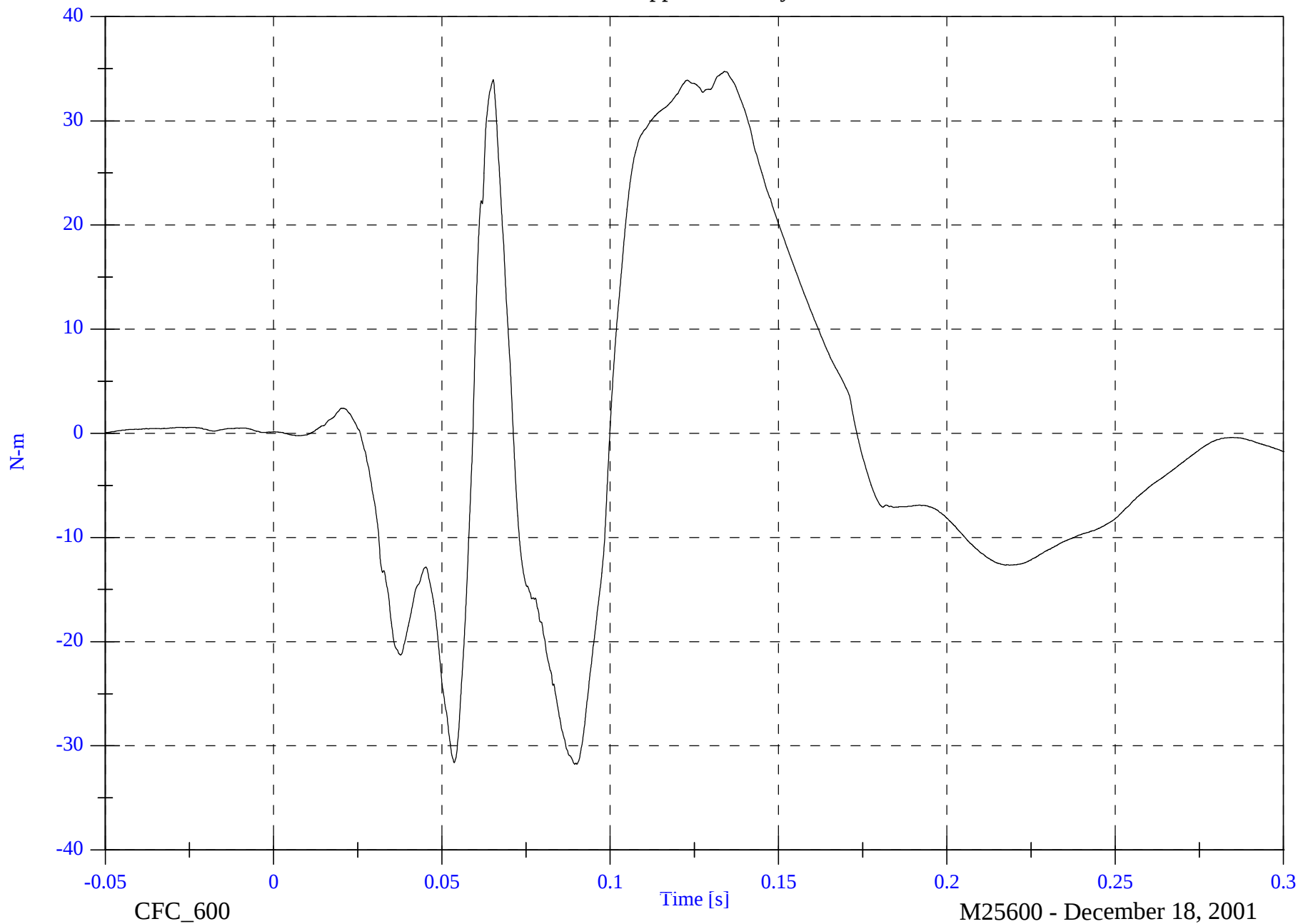
P1 Upper Neck My

Max: 34.7 [N-m] at 0.134 [s]

Min: -31.8 [N-m] at 0.090 [s]

B-23

8642-NCAP-01



2002 NCAP Test 1-2002 Mitsubishi Eclipse

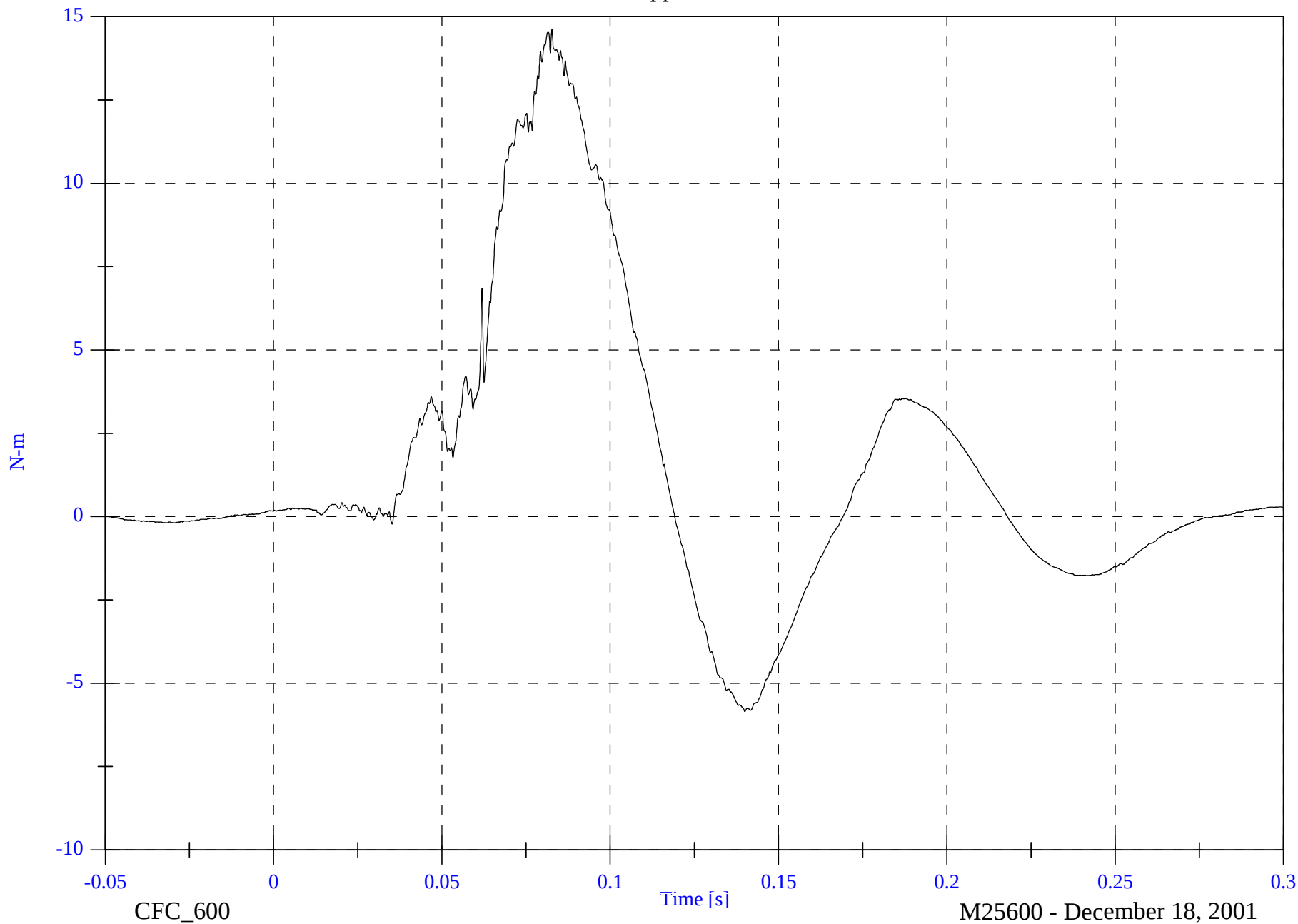
P1 Upper Neck Mz

Max: 14.6 [N-m] at 0.083 [s]

Min: -5.8 [N-m] at 0.140 [s]

B-24

8642-NCAP-01



2002 NCAP Test 1-2002 Mitsubishi Eclipse

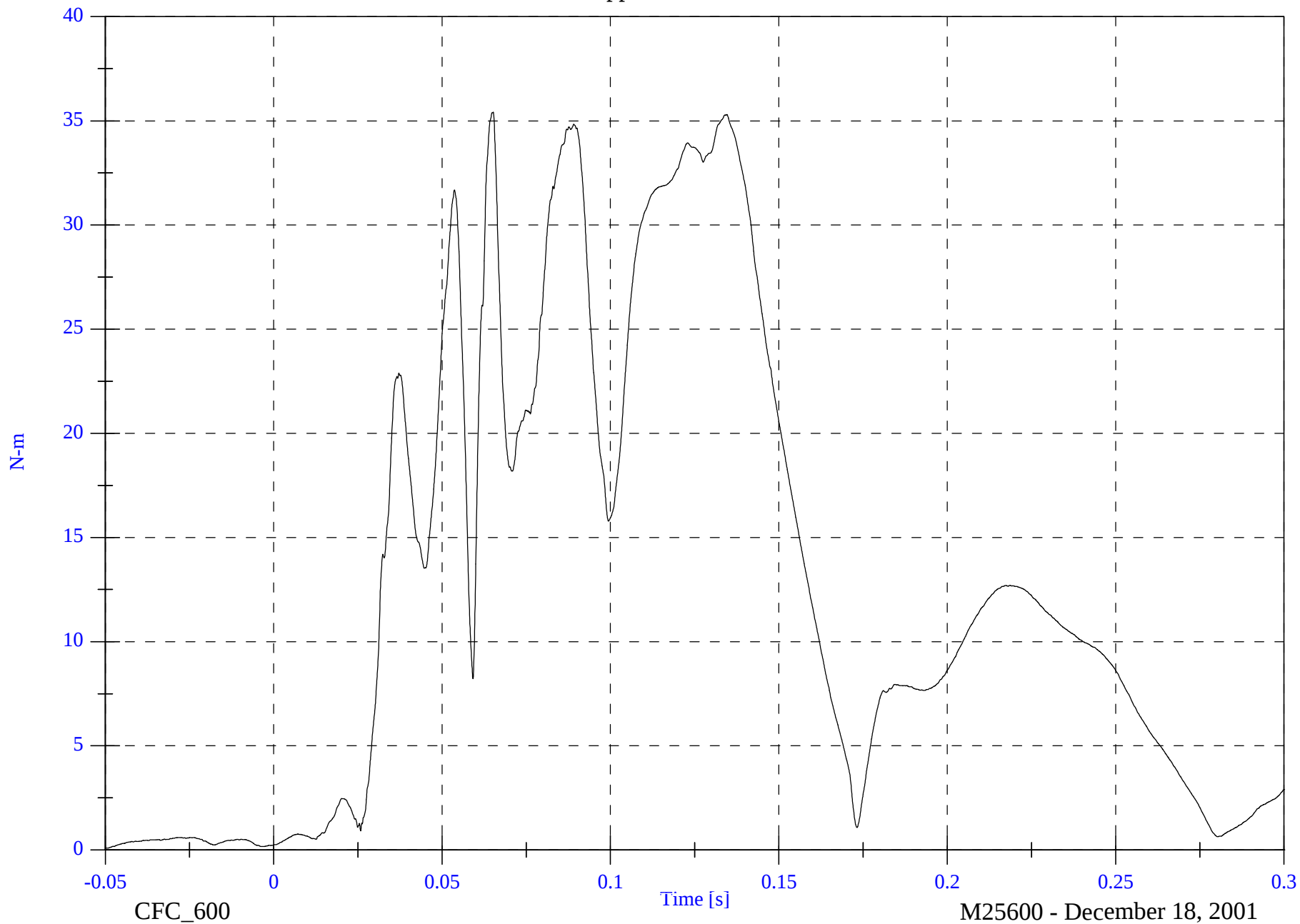
P1 Upper Neck M Resultant

Max: 35.4 [N-m] at 0.065 [s]

Min: 0.1 [N-m] at -0.050 [s]

B-25

8642-NCAP-01



2002 NCAP Test 1-2002 Mitsubishi Eclipse

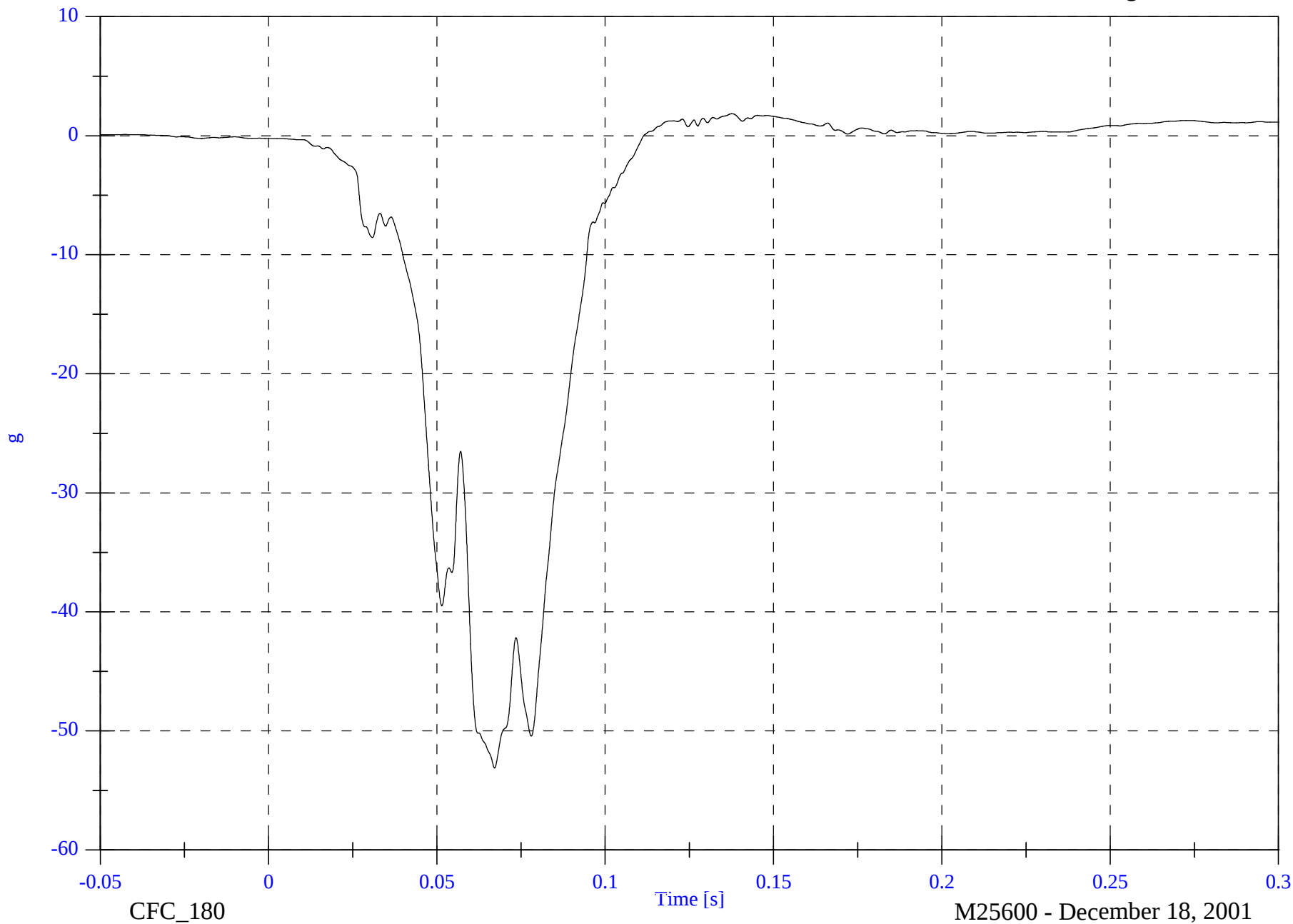
P1 Chest x

Max: 1.8 [g] at 0.138 [s]

Min: -53.1 [g] at 0.067 [s]

B-26

8642-NCAP-01

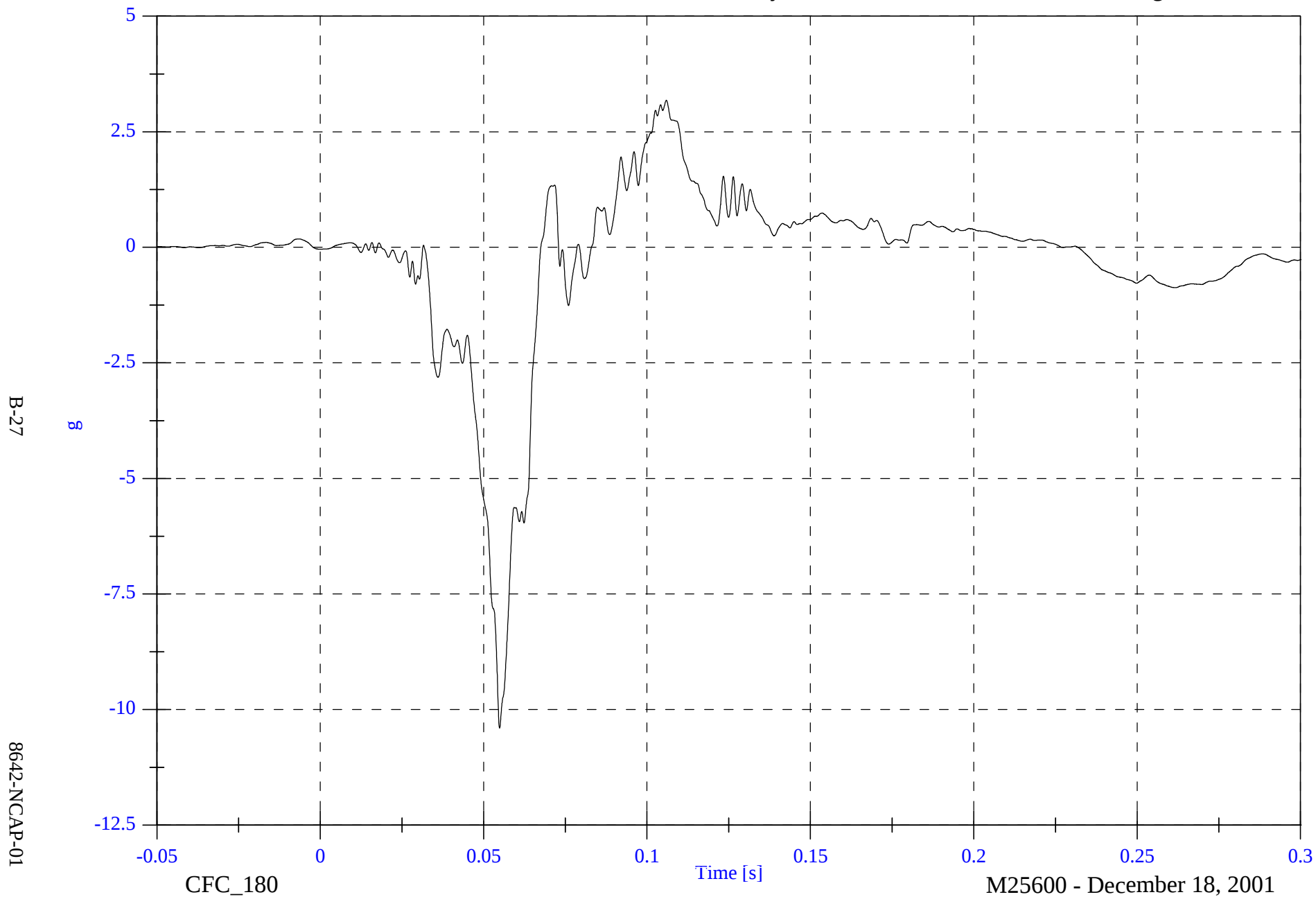


2002 NCAP Test 1-2002 Mitsubishi Eclipse

P1 Chest y

Max: 3.2 [g] at 0.106 [s]

Min: -10.4 [g] at 0.055 [s]



2002 NCAP Test 1-2002 Mitsubishi Eclipse

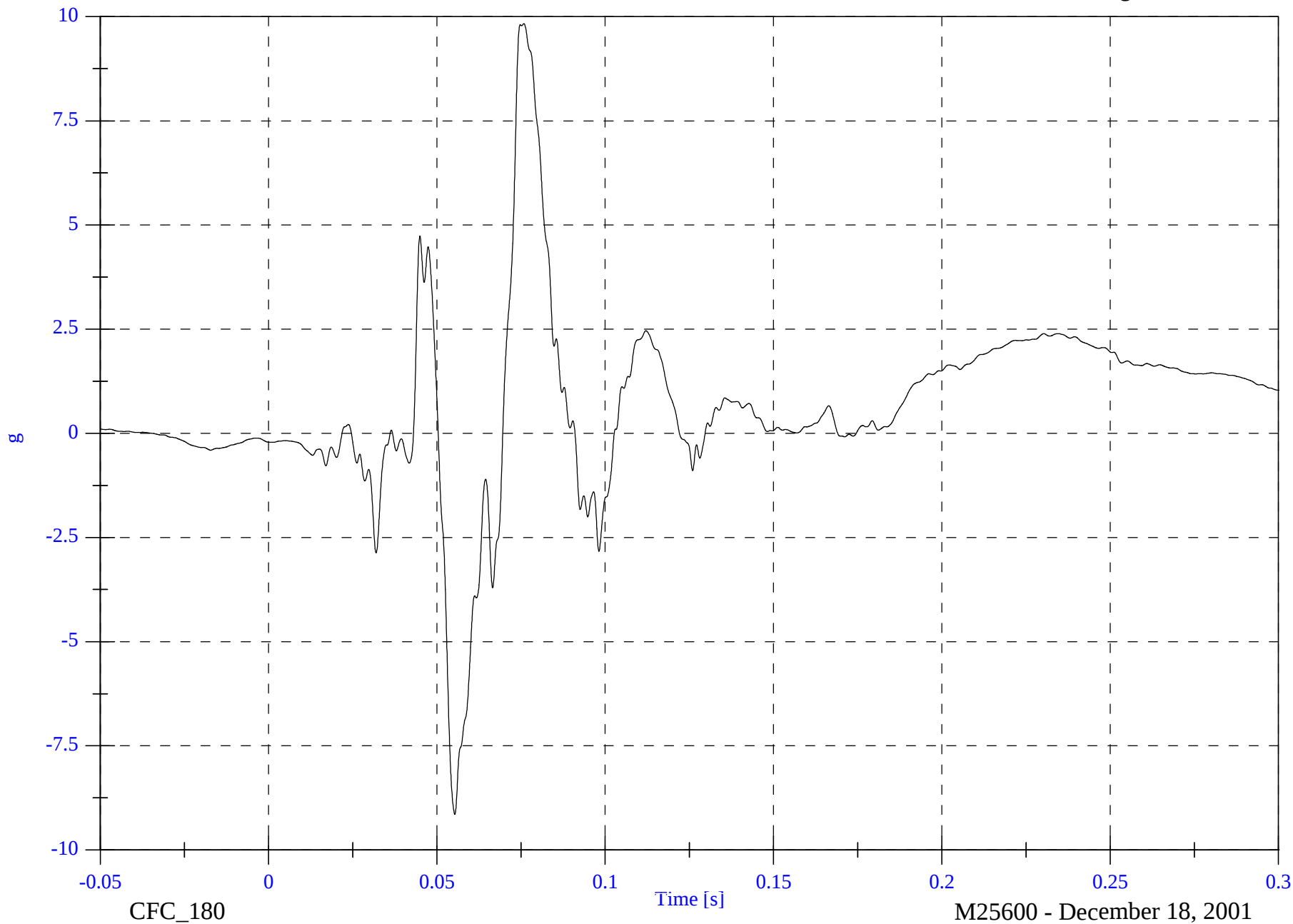
P1 Chest z

Max: 9.8 [g] at 0.076 [s]

Min: -9.1 [g] at 0.055 [s]

B-28

8642-NCAP-01



2002 NCAP Test 1-2002 Mitsubishi Eclipse

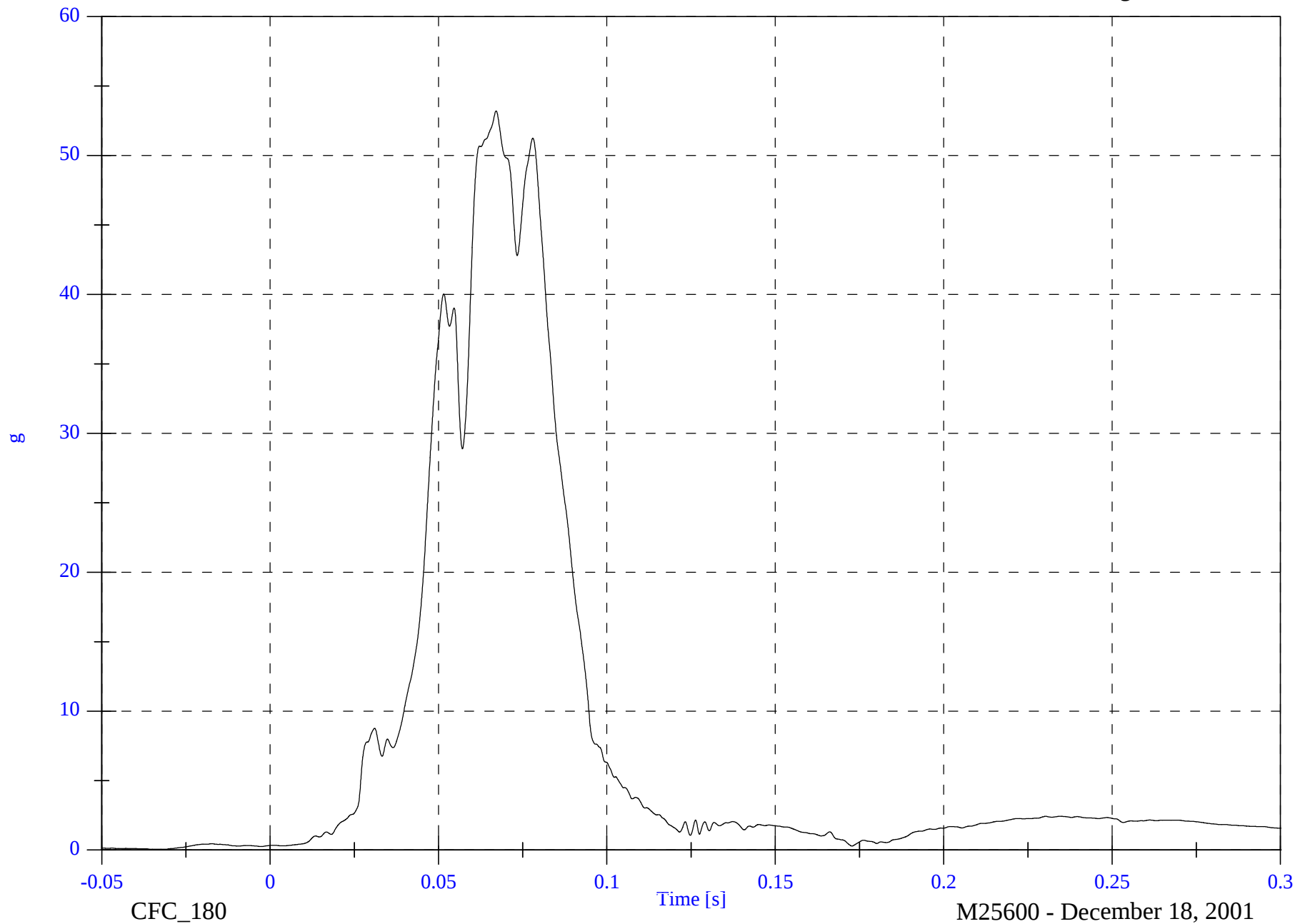
P1 Chest Resultant

Max: 53.2 [g] at 0.067 [s]

Min: 0.0 [g] at -0.035 [s]

B-29

8642-NCAP-01

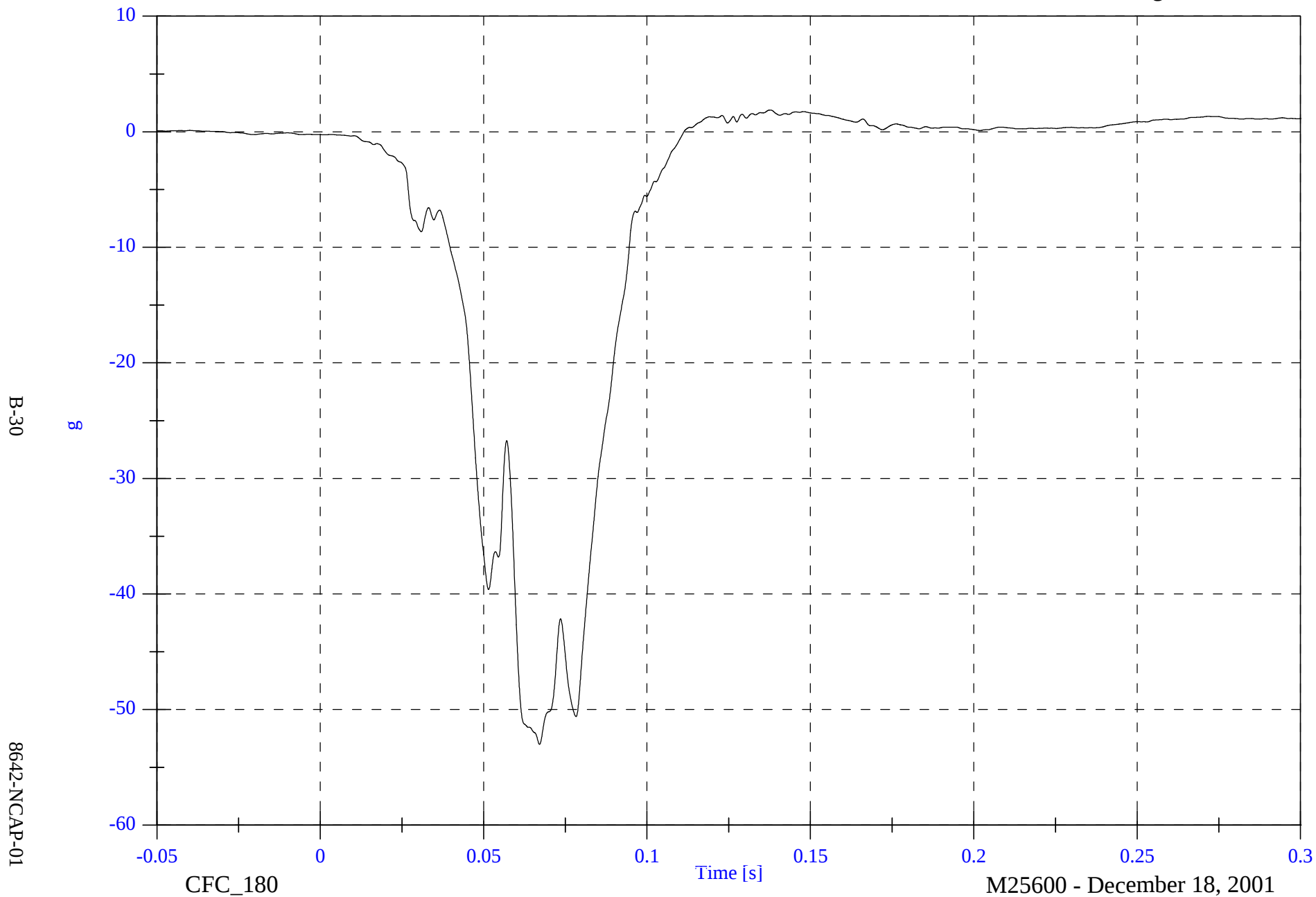


2002 NCAP Test 1-2002 Mitsubishi Eclipse

P1 Chest Red x

Max: 1.9 [g] at 0.138 [s]

Min: -53.0 [g] at 0.067 [s]

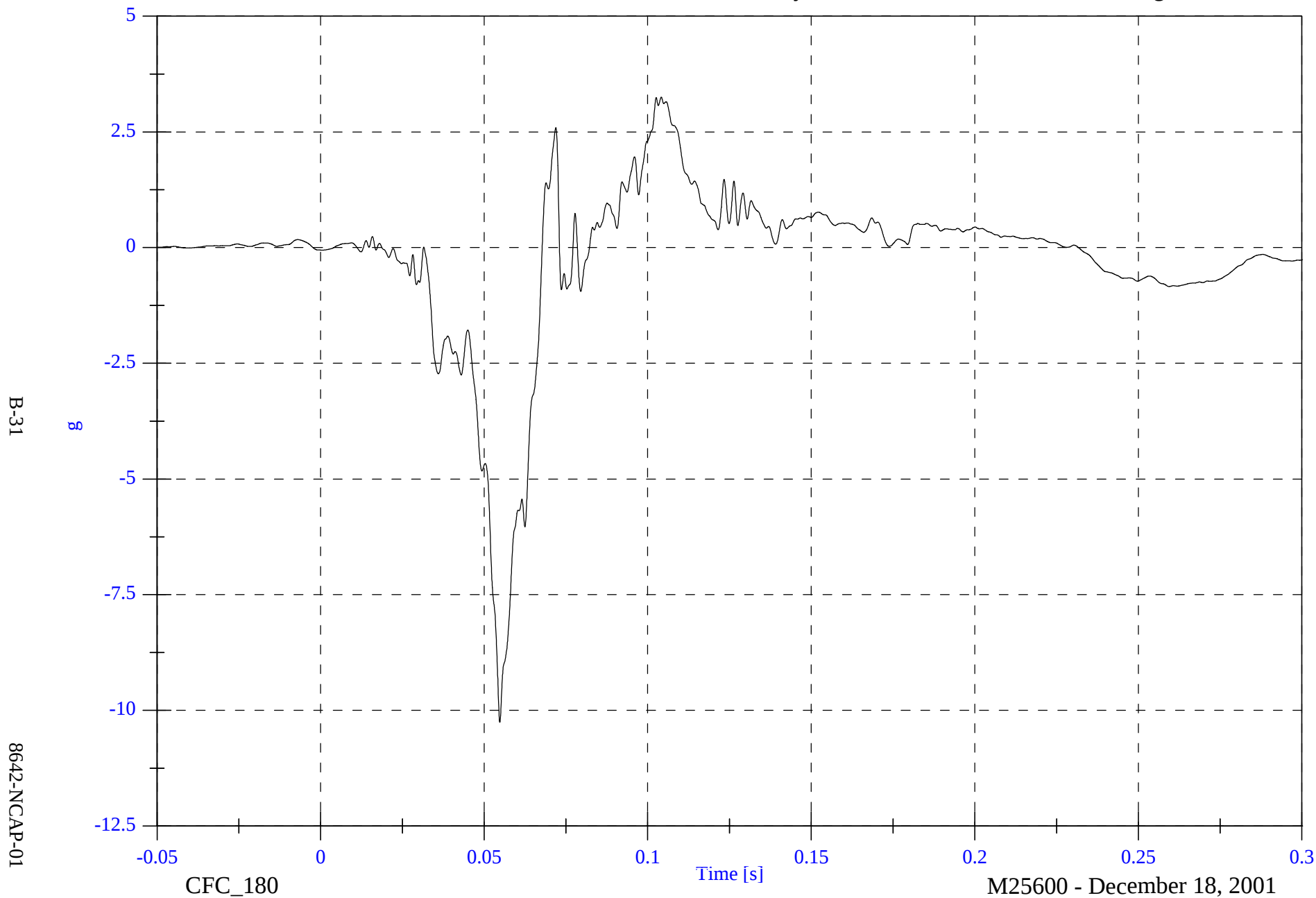


2002 NCAP Test 1-2002 Mitsubishi Eclipse

P1 Chest Red y

Max: 3.3 [g] at 0.104 [s]

Min: -10.3 [g] at 0.055 [s]



2002 NCAP Test 1-2002 Mitsubishi Eclipse

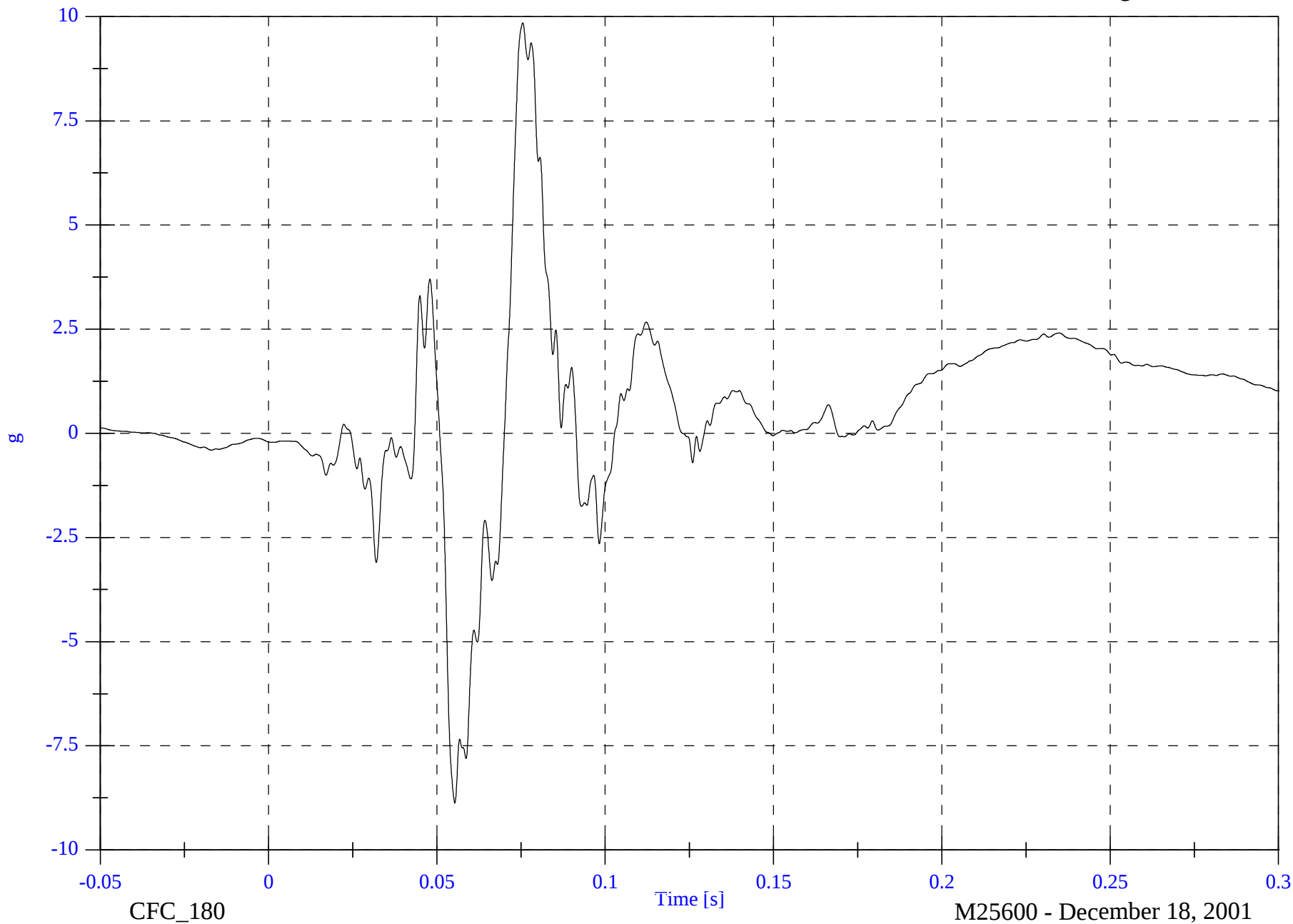
P1 Chest Red z

Max: 9.9 [g] at 0.076 [s]

Min: -8.9 [g] at 0.055 [s]

B-32

8642-NCAP-01



2002 NCAP Test 1-2002 Mitsubishi Eclipse

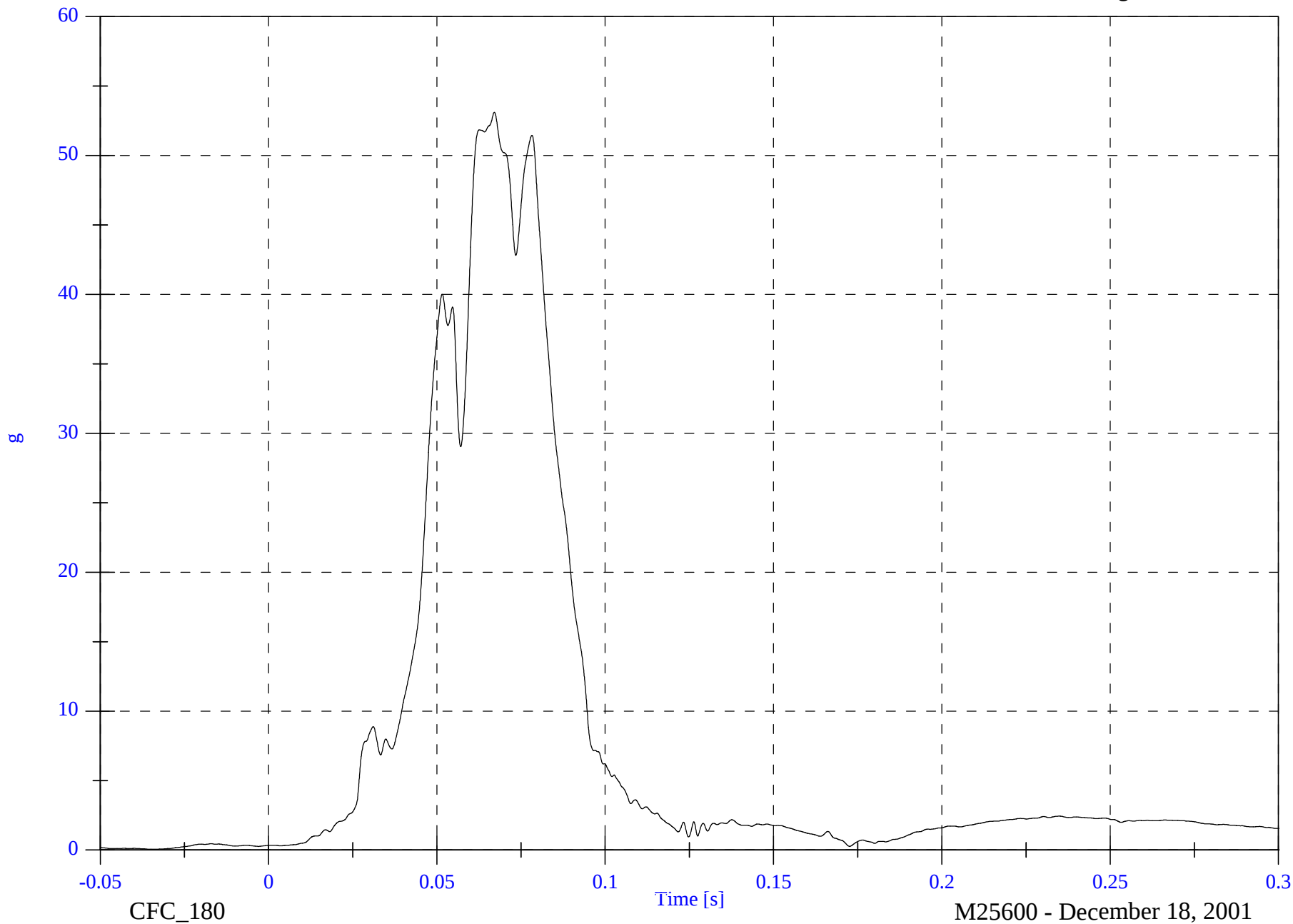
P1 Chest Red Resultant

Max: 53.1 [g] at 0.067 [s]

Min: 0.0 [g] at -0.033 [s]

B-33

8642-NCAP-01

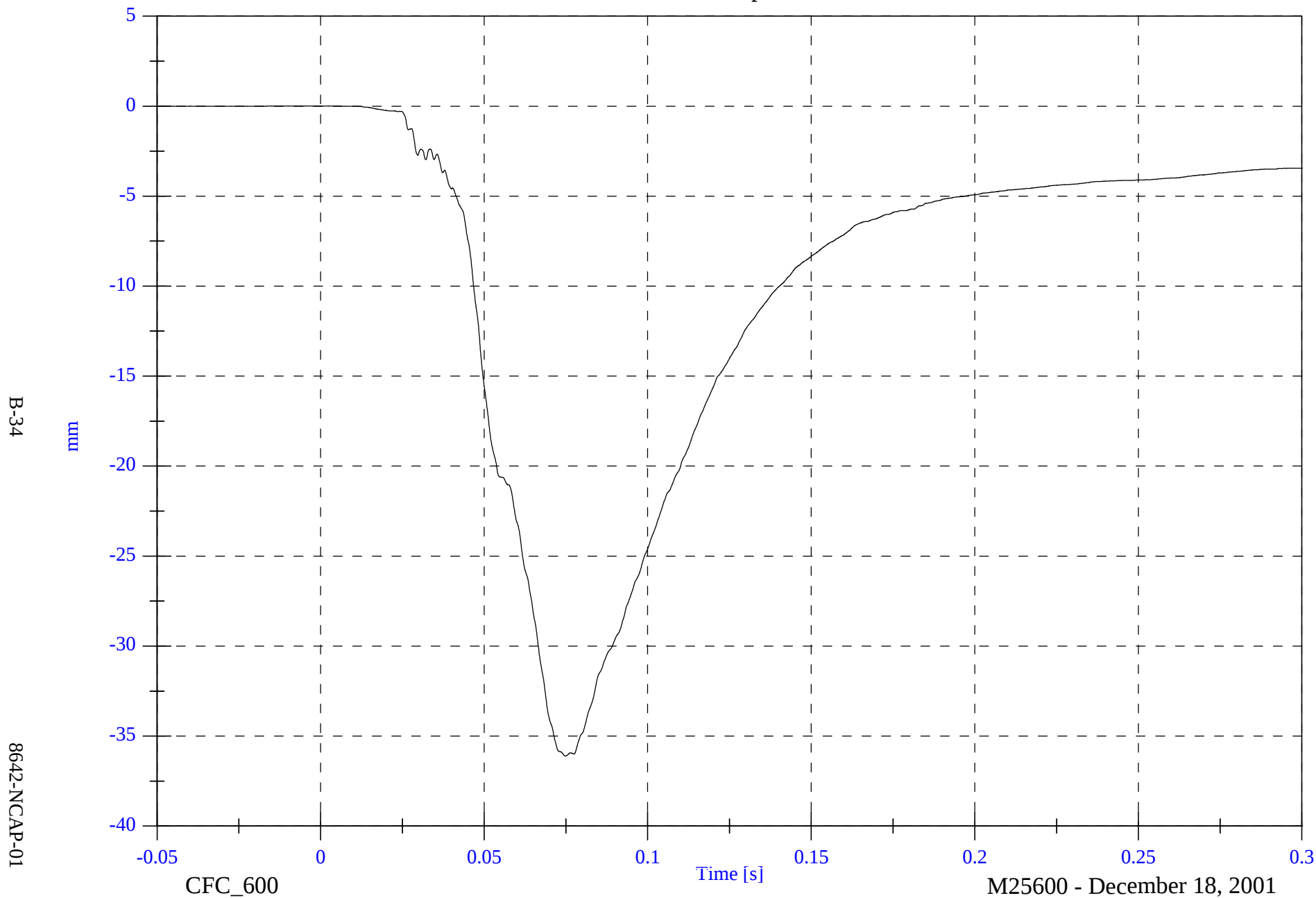


2002 NCAP Test 1-2002 Mitsubishi Eclipse

P1 Chest Compression x

Max: 0.0 [mm] at 0.000 [s]

Min: -36.1 [mm] at 0.075 [s]

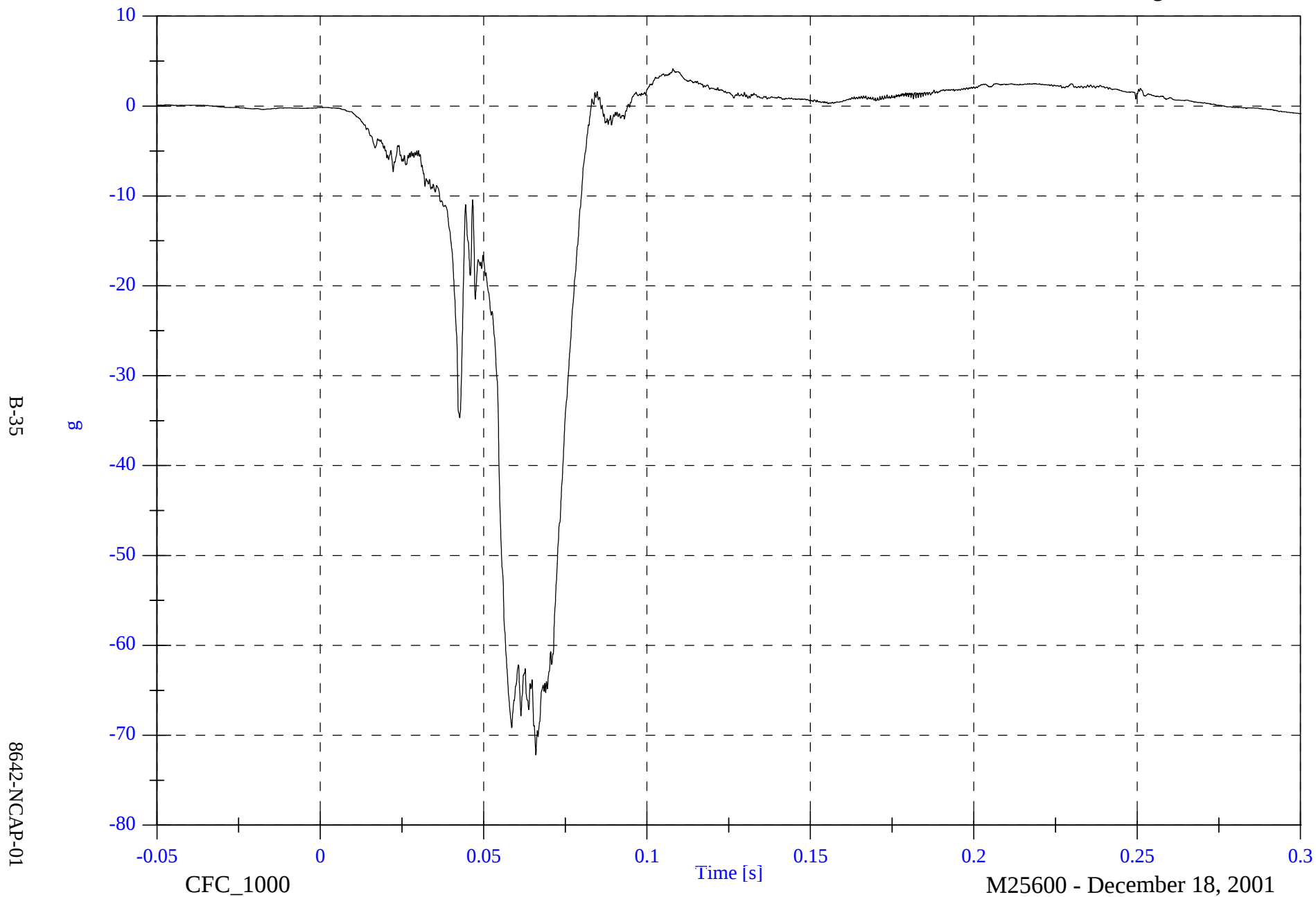


2002 NCAP Test 1-2002 Mitsubishi Eclipse

Max: 4.2 [g] at 0.108 [s]

Min: -72.2 [g] at 0.066 [s]

P1 Pelvic x



2002 NCAP Test 1-2002 Mitsubishi Eclipse

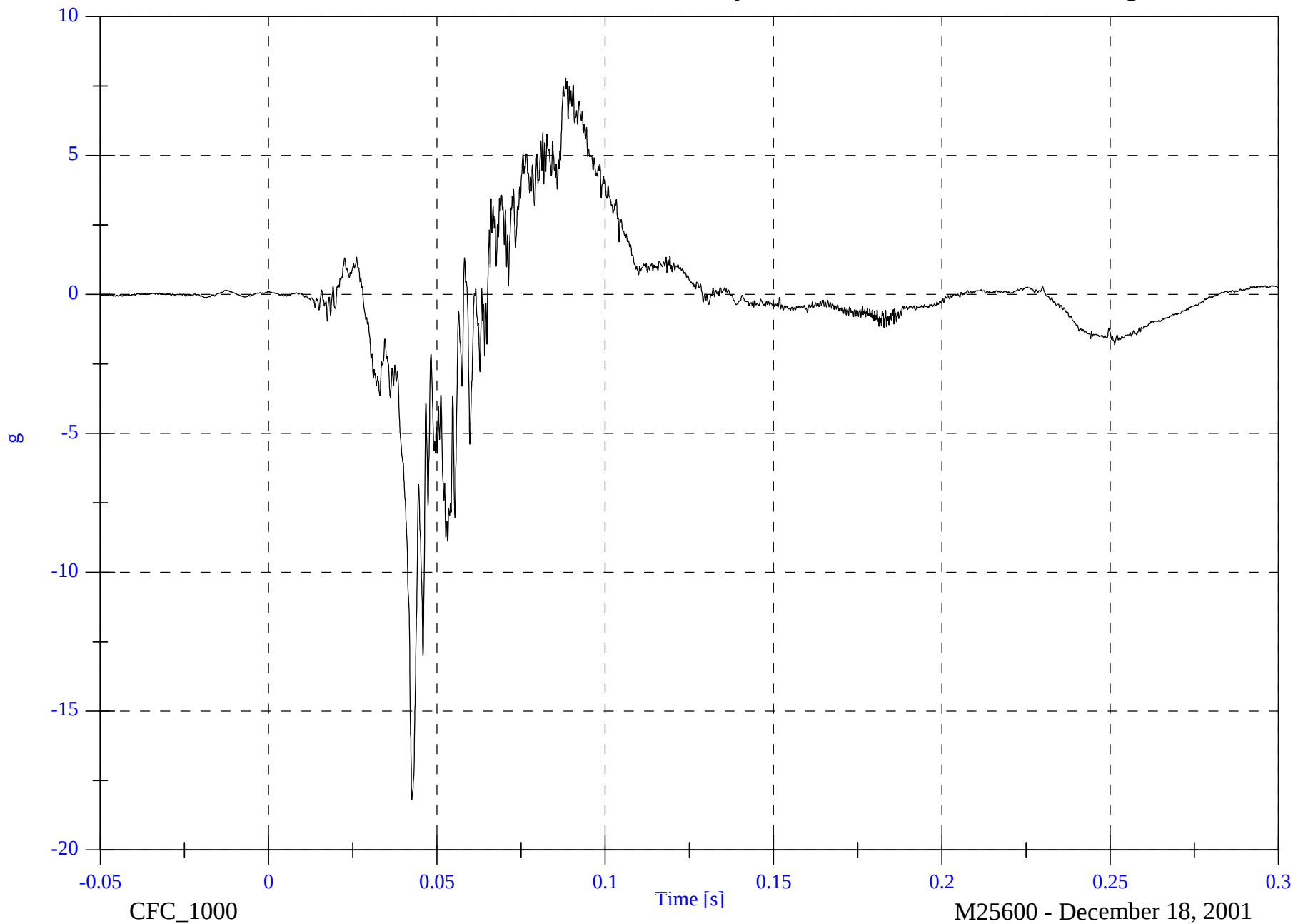
P1 Pelvic y

Max: 7.8 [g] at 0.088 [s]

Min: -18.2 [g] at 0.043 [s]

B-36

8642-NCAP-01



2002 NCAP Test 1-2002 Mitsubishi Eclipse

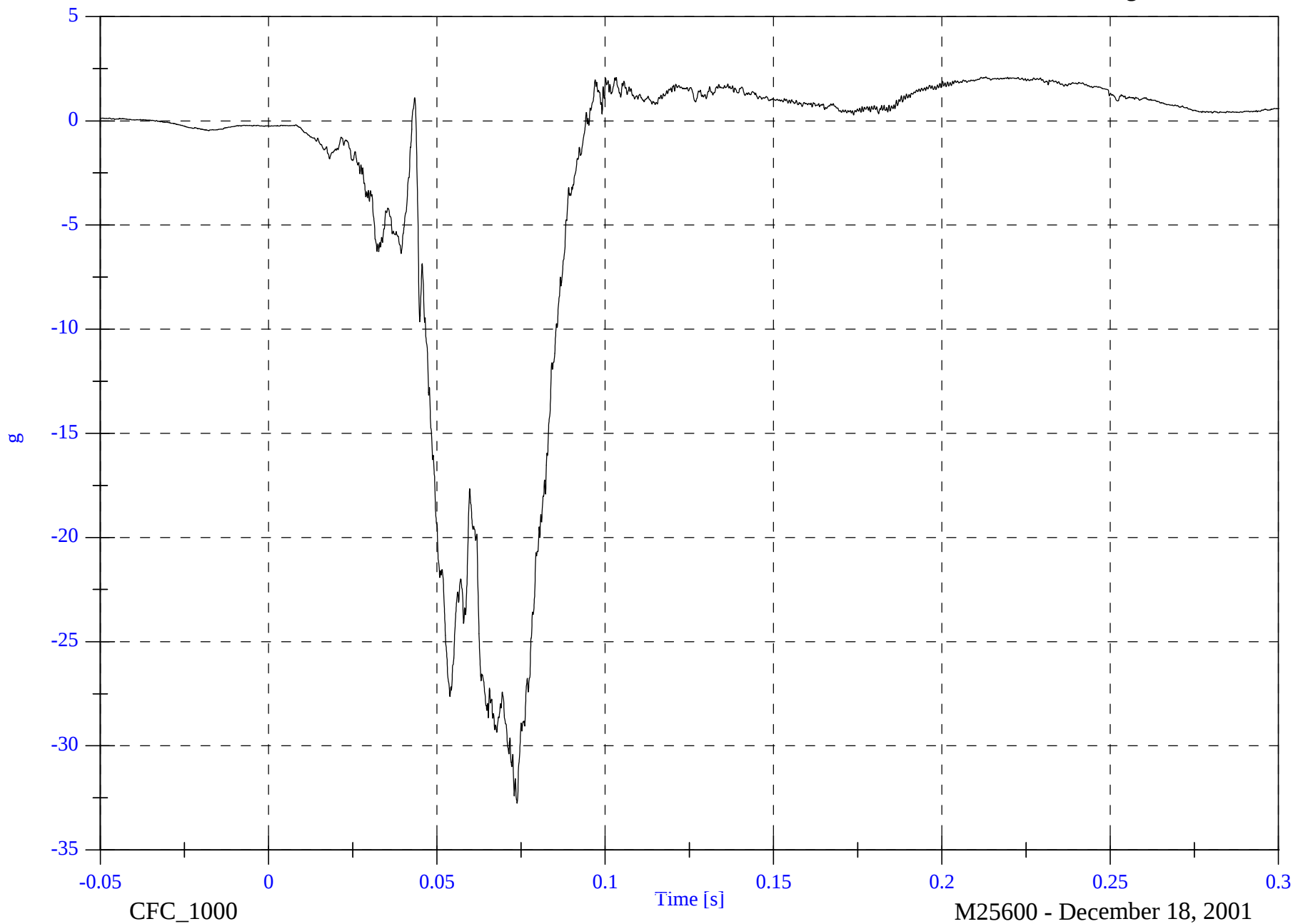
P1 Pelvic z

Max: 2.1 [g] at 0.213 [s]

Min: -32.8 [g] at 0.074 [s]

B-37

8642-NCAP-01



2002 NCAP Test 1-2002 Mitsubishi Eclipse

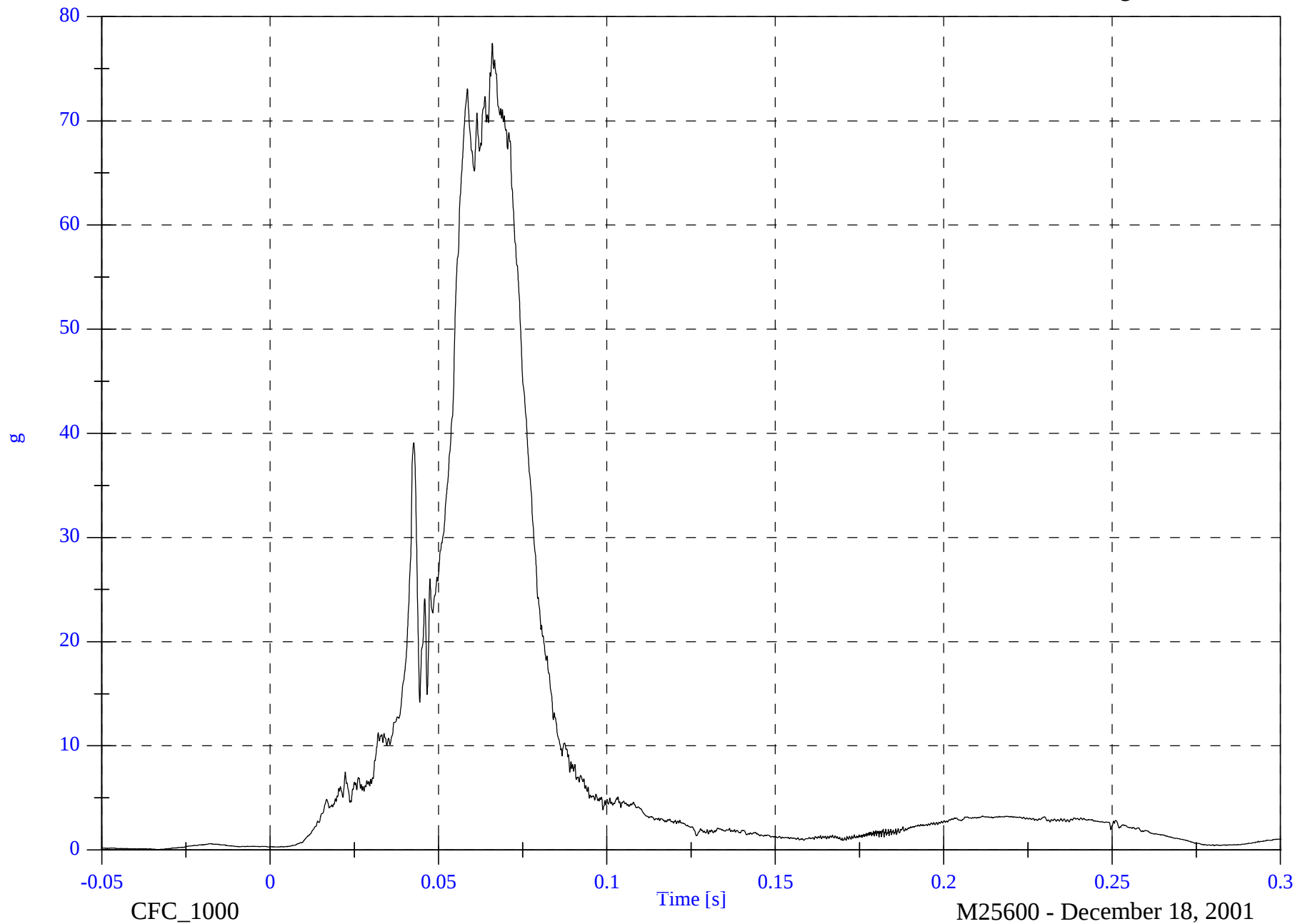
P1 Pelvic Resultant

Max: 77.4 [g] at 0.066 [s]

Min: 0.0 [g] at -0.034 [s]

B-38

8642-NCAP-01

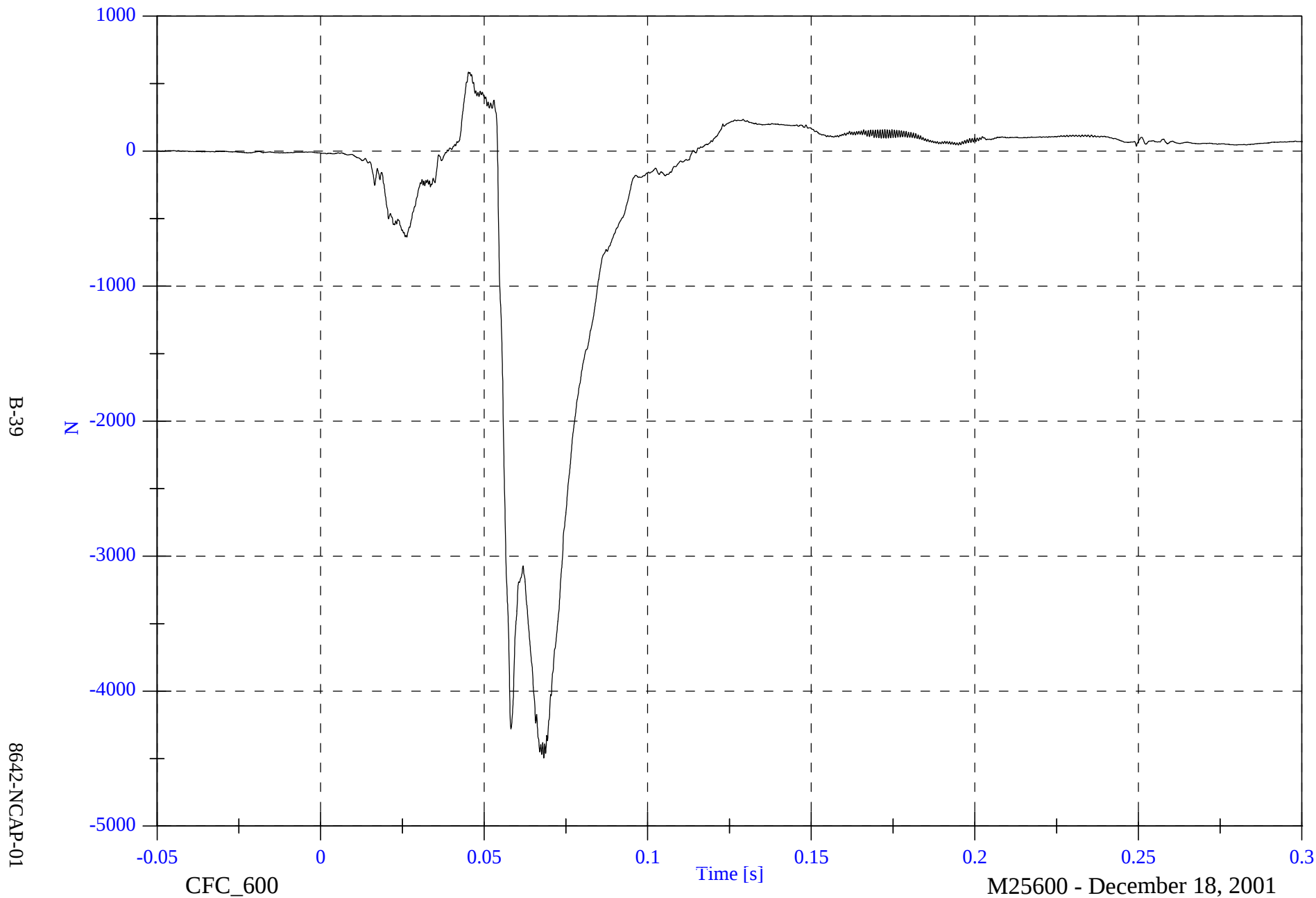


2002 NCAP Test 1-2002 Mitsubishi Eclipse

P1 Left Femur z

Max: 587.1 [N] at 0.045 [s]

Min: -4496.2 [N] at 0.068 [s]

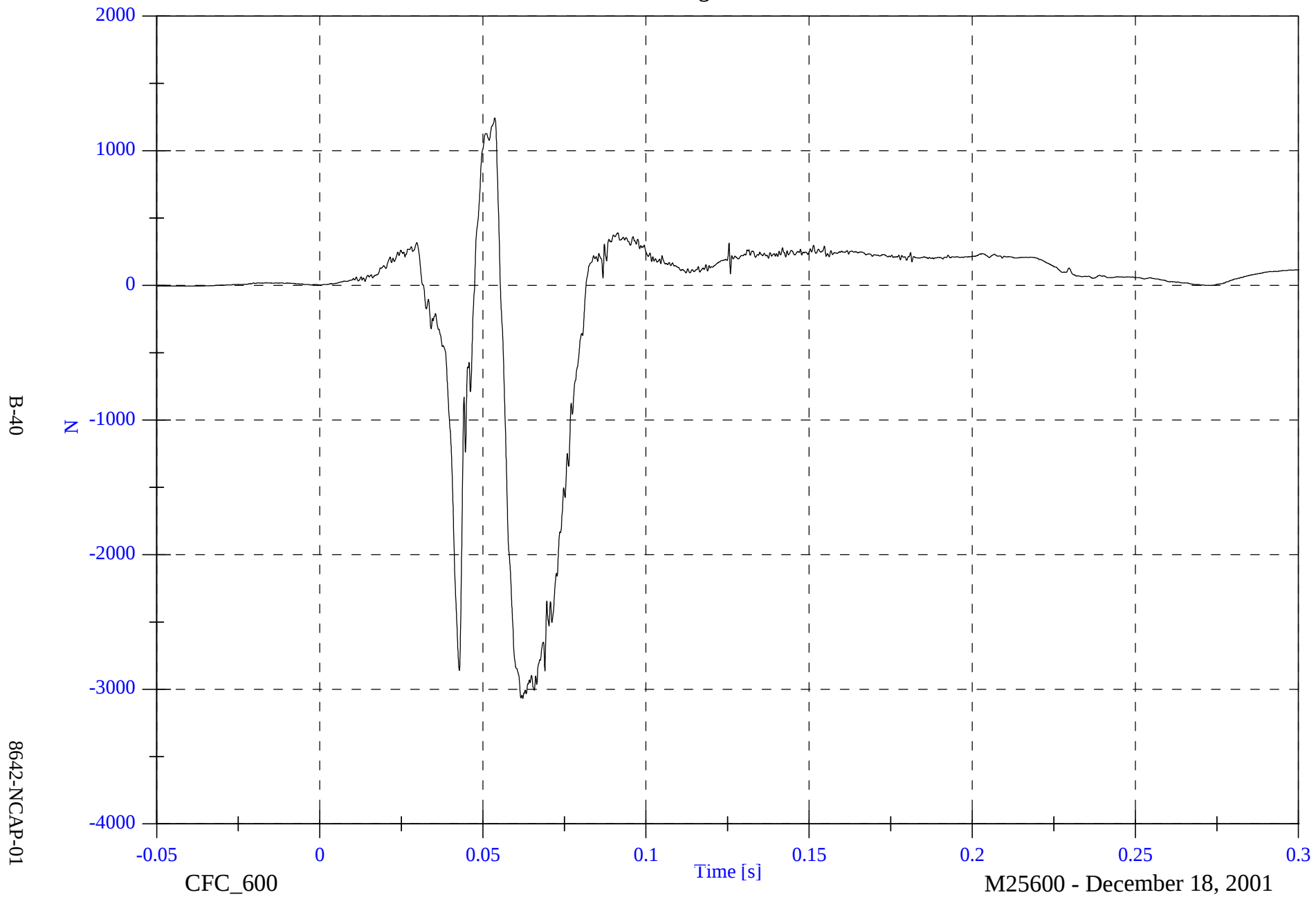


2002 NCAP Test 1-2002 Mitsubishi Eclipse

P1 Right Femur z

Max: 1243.6 [N] at 0.054 [s]

Min: -3069.1 [N] at 0.062 [s]

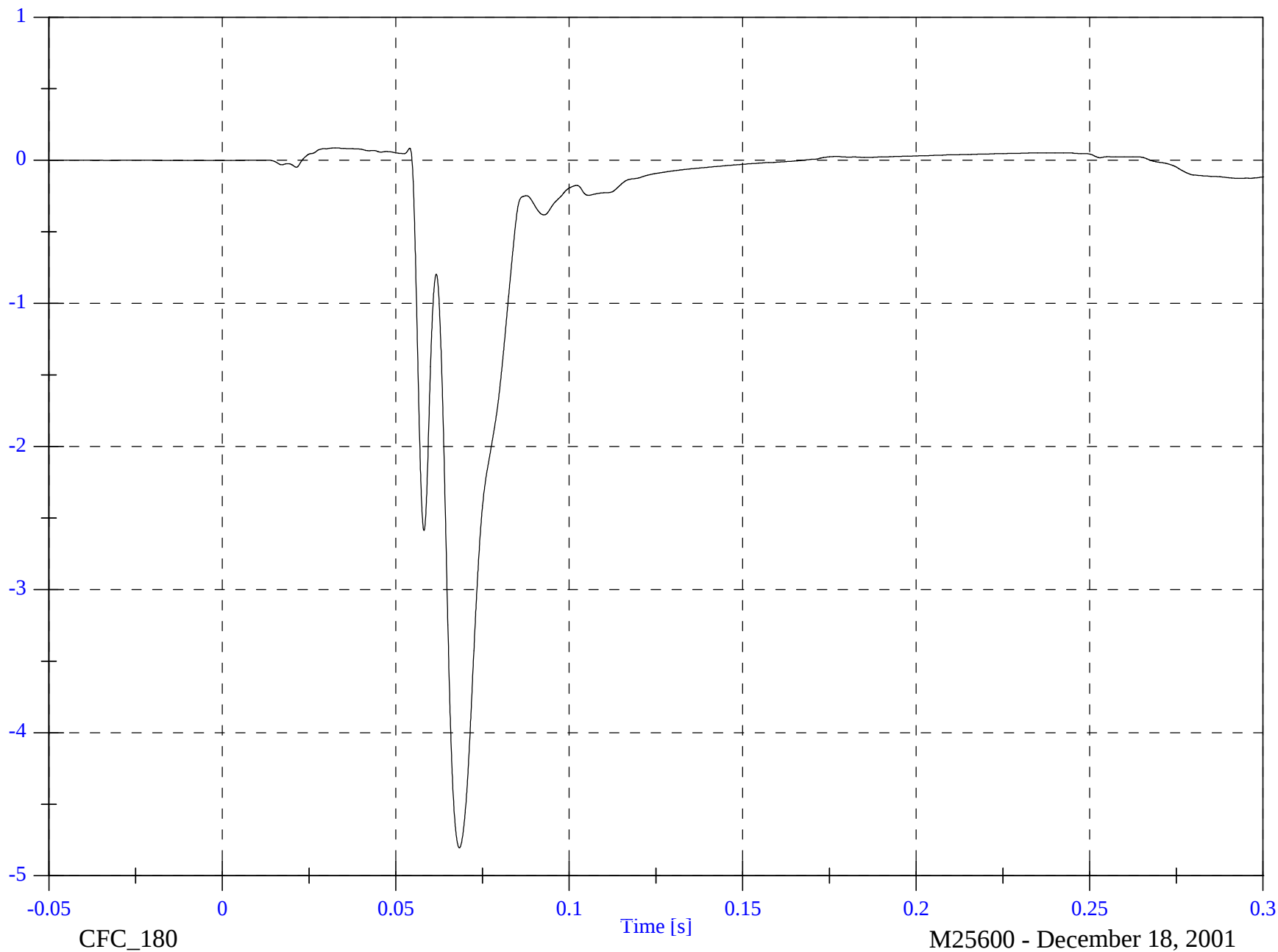


2002 NCAP Test 1-2002 Mitsubishi Eclipse

P1 Left Knee Shear

Max: 0.1 [mm] at 0.033 [s]

Min: -4.8 [mm] at 0.068 [s]



B-41

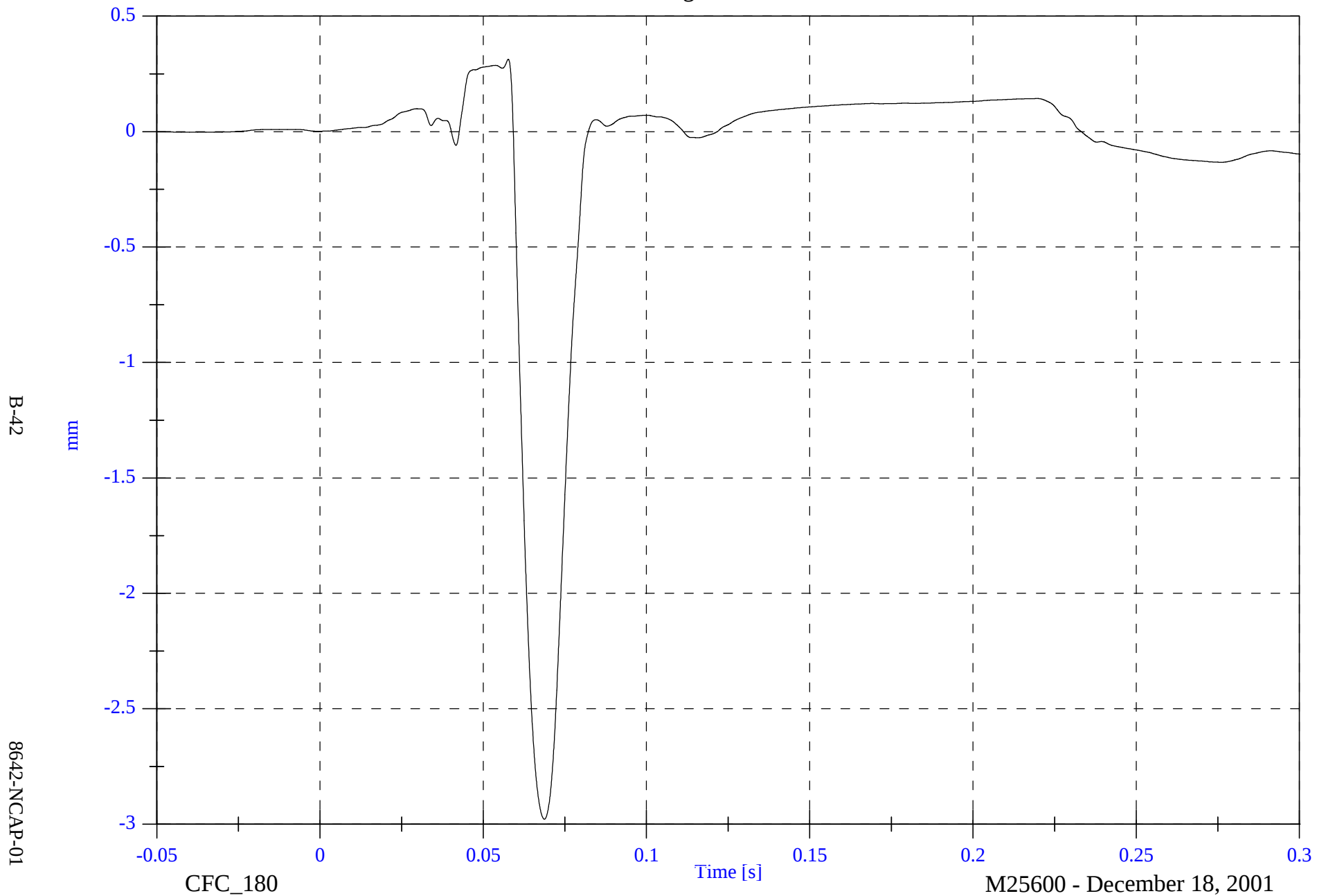
8642-NCAP-01

2002 NCAP Test 1-2002 Mitsubishi Eclipse

P1 Right Knee Shear

Max: 0.3 [mm] at 0.058 [s]

Min: -3.0 [mm] at 0.069 [s]

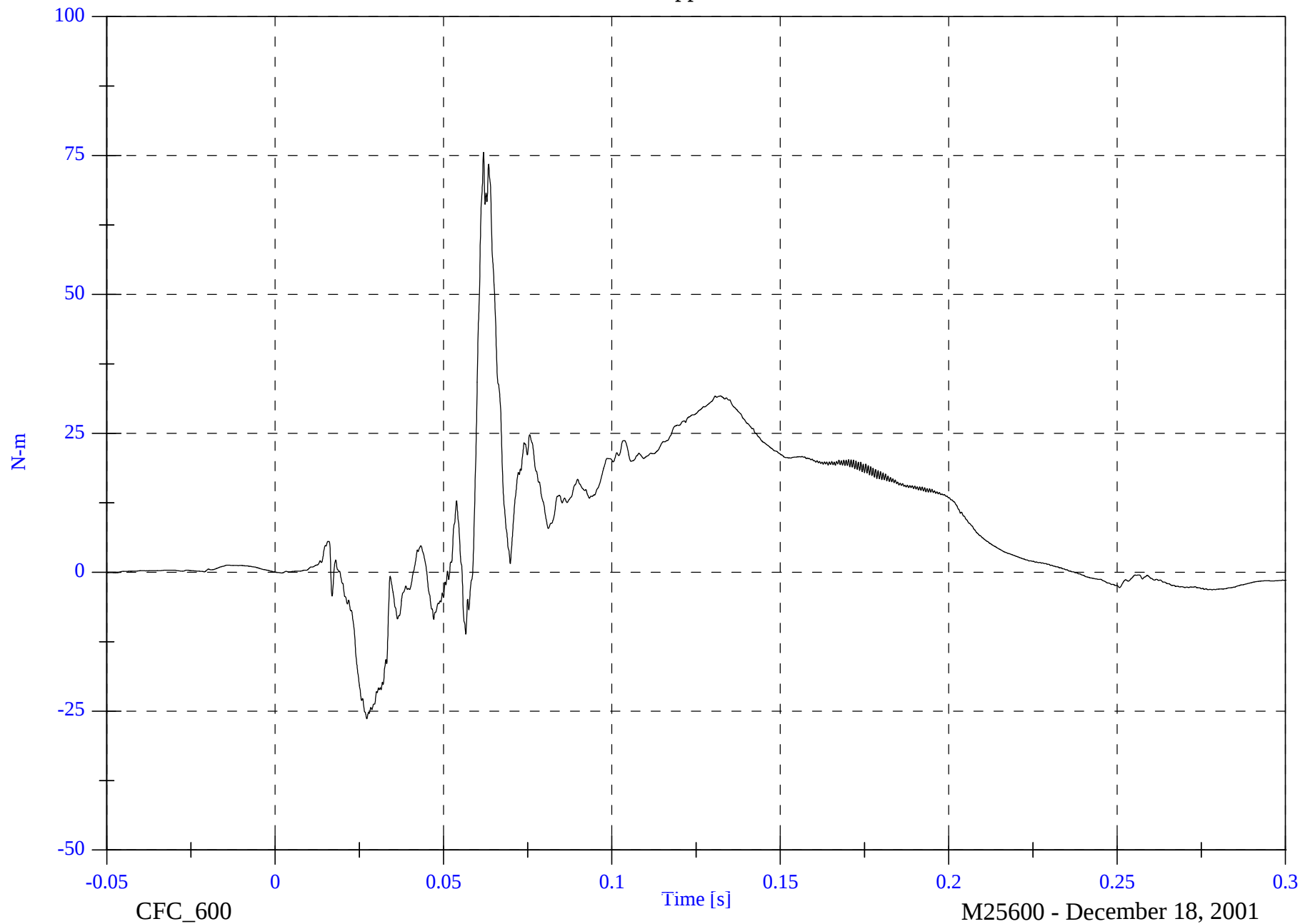


2002 NCAP Test 1-2002 Mitsubishi Eclipse

P1 Left Upper Tibia Mx

Max: 75.6 [N-m] at 0.062 [s]

Min: -26.4 [N-m] at 0.027 [s]



B-43

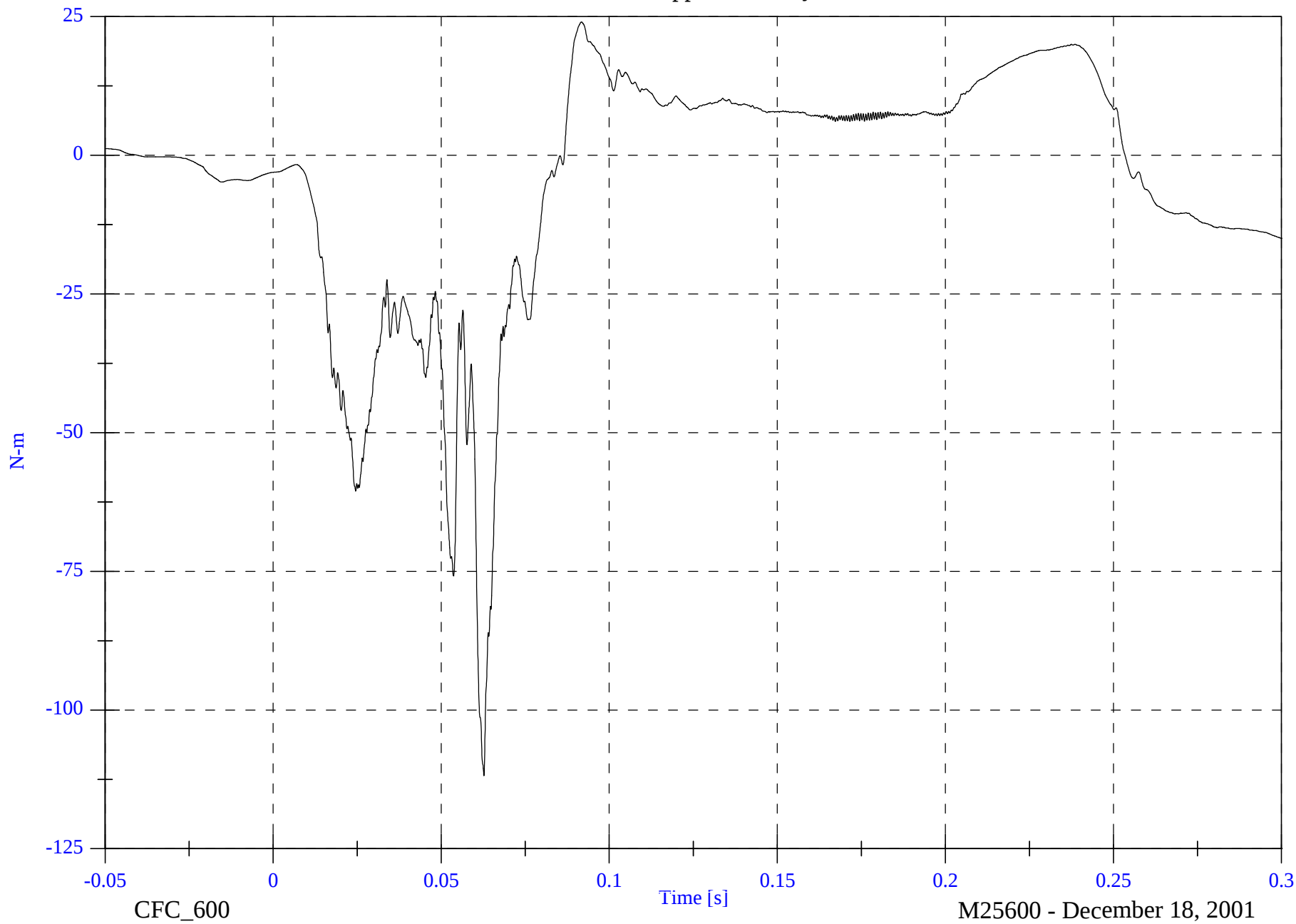
8642-NCAP-01

2002 NCAP Test 1-2002 Mitsubishi Eclipse

P1 Left Upper Tibia My

Max: 24.1 [N-m] at 0.092 [s]

Min: -111.9 [N-m] at 0.063 [s]



B-44

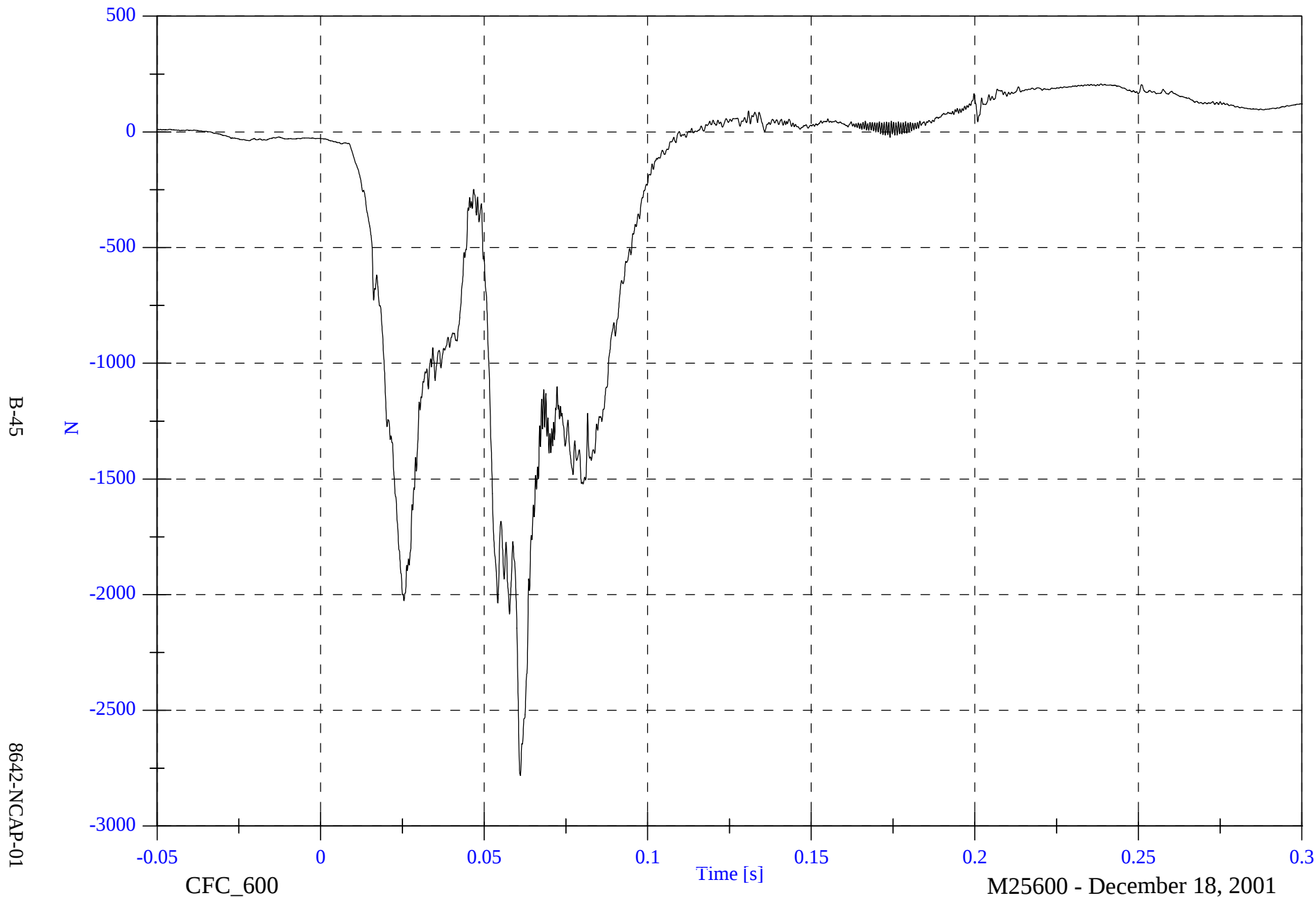
8642-NCAP-01

2002 NCAP Test 1-2002 Mitsubishi Eclipse

P1 Left Lower Tibia Fz

Max: 207.2 [N] at 0.238 [s]

Min: -2781.9 [N] at 0.061 [s]

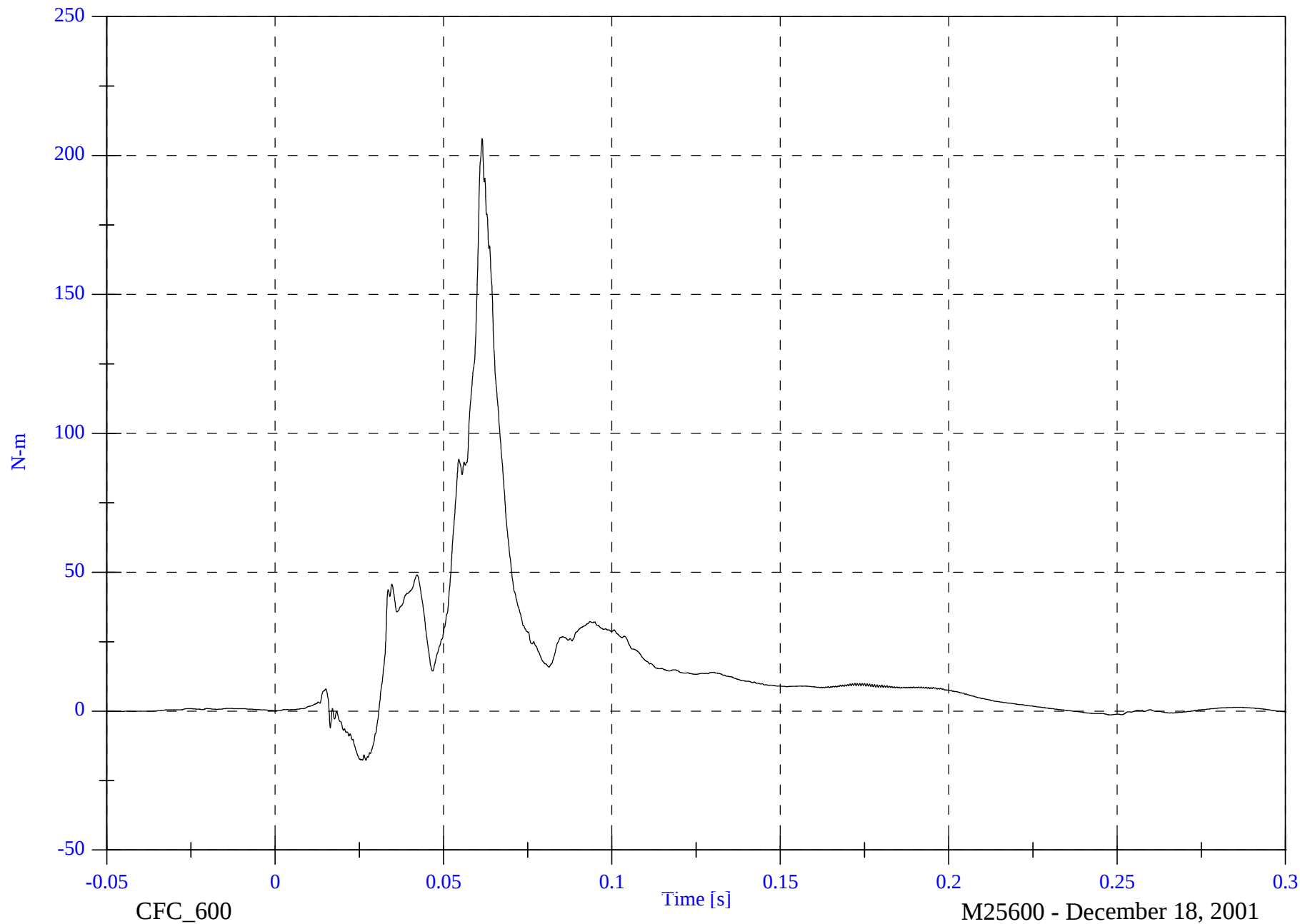


2002 NCAP Test 1-2002 Mitsubishi Eclipse

Max: 206.1 [N-m] at 0.061 [s]

P1 Left Lower Tibia Mx

Min: -17.7 [N-m] at 0.026 [s]



B-46

8642-NCAP-01

2002 NCAP Test 1-2002 Mitsubishi Eclipse

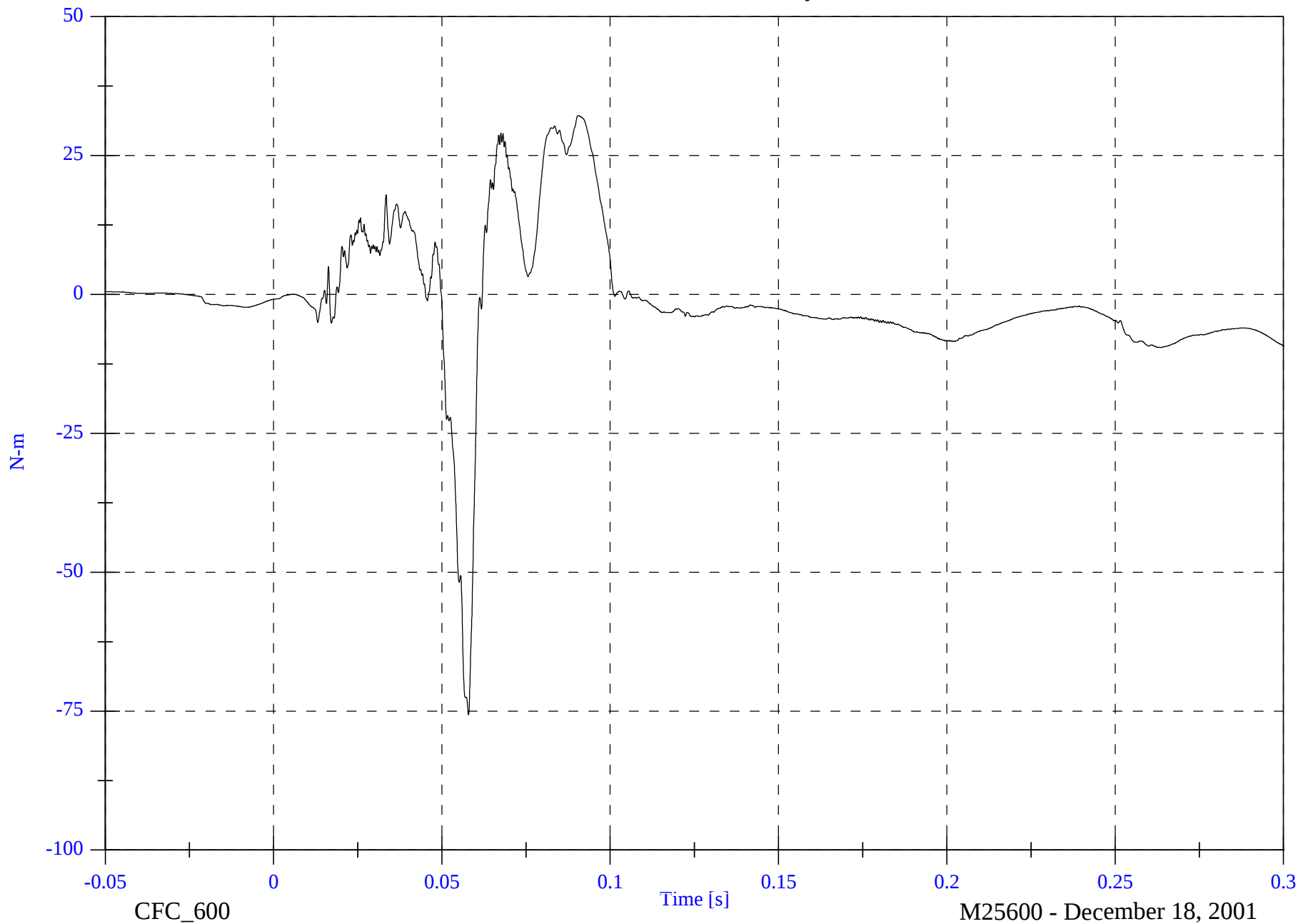
P1 Left Lower Tibia My

Max: 32.2 [N-m] at 0.090 [s]

Min: -75.7 [N-m] at 0.058 [s]

B-47

8642-NCAP-01

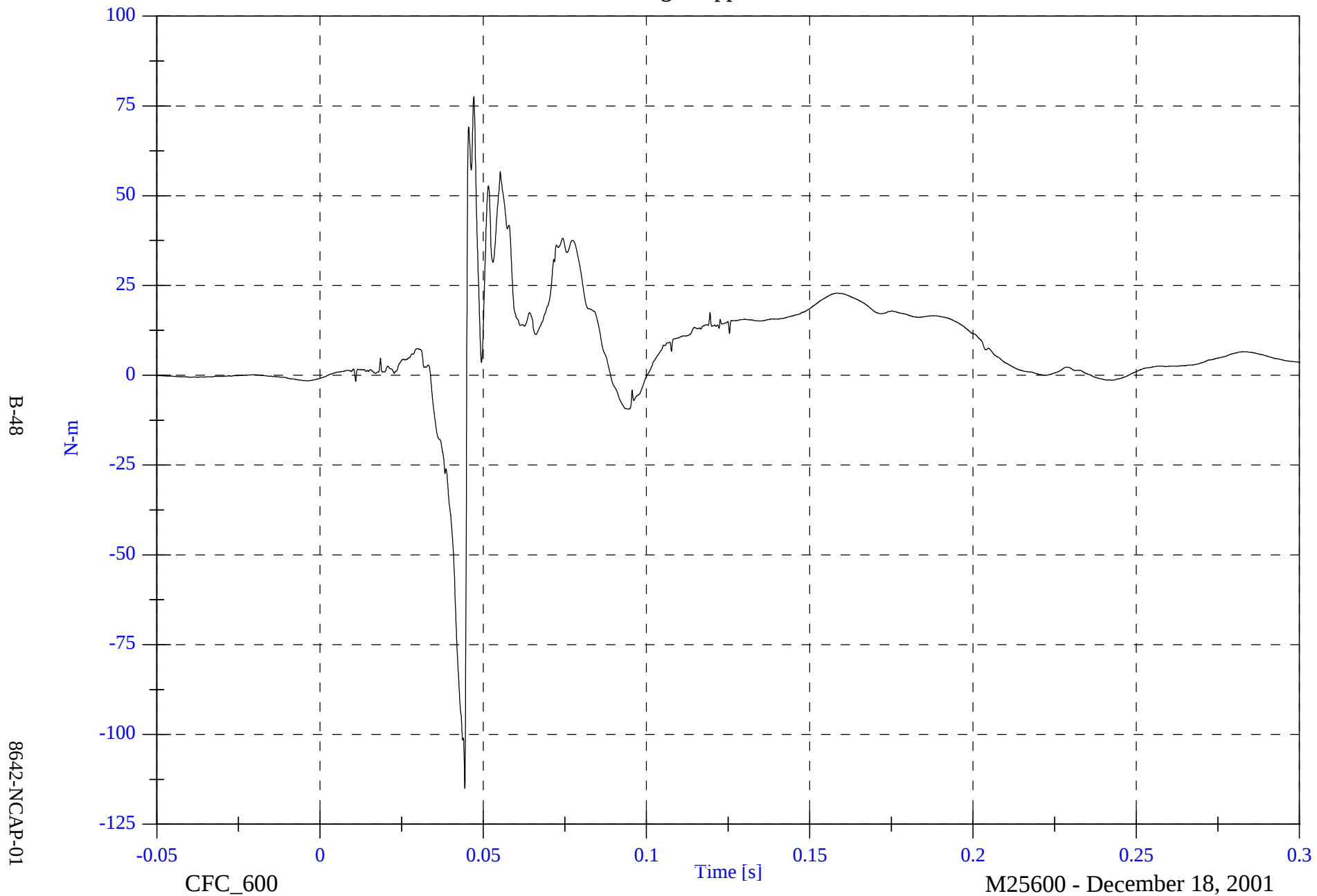


2002 NCAP Test 1-2002 Mitsubishi Eclipse

P1 Right Upper Tibia Mx

Max: 77.6 [N-m] at 0.047 [s]

Min: -115.1 [N-m] at 0.044 [s]

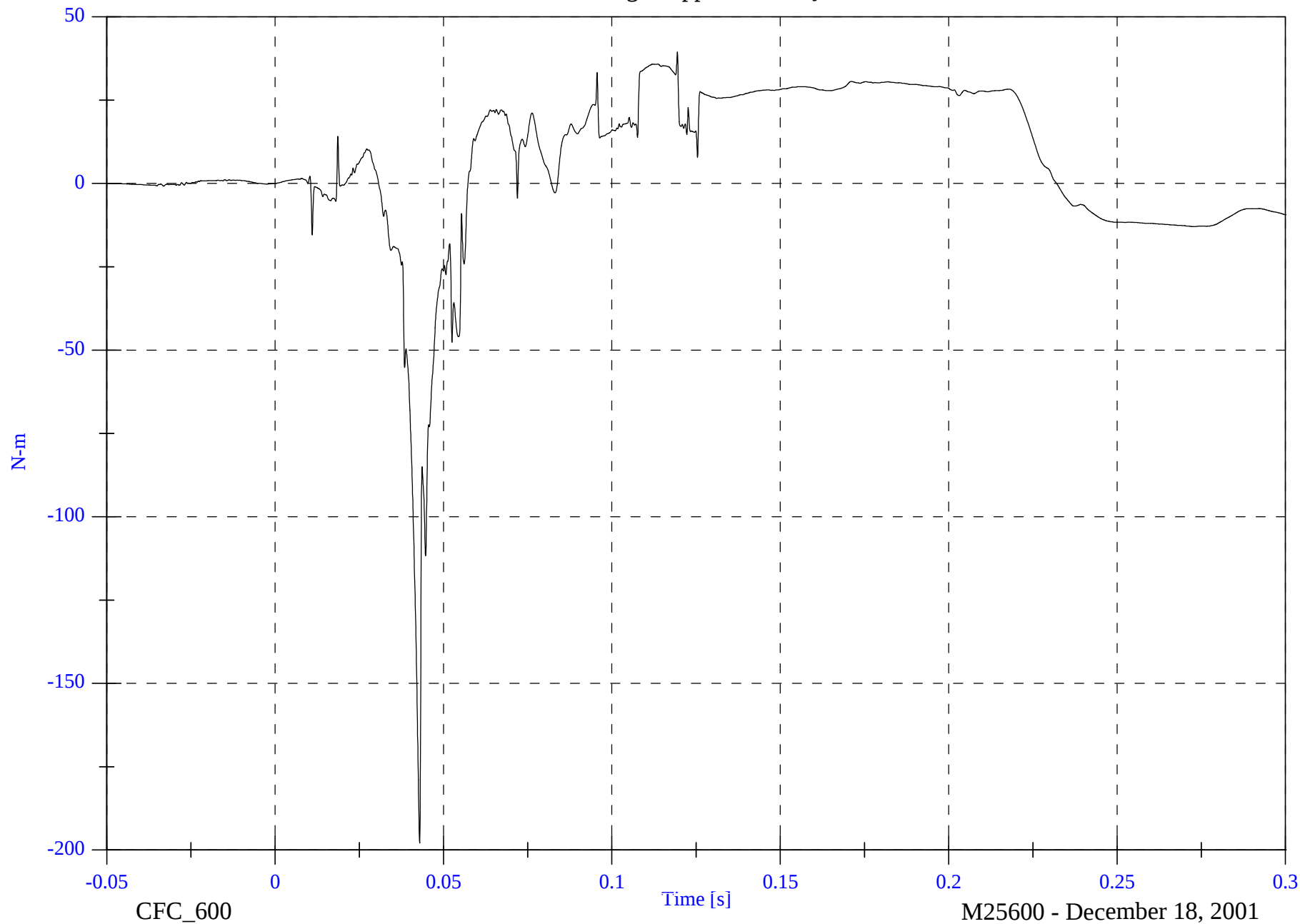


2002 NCAP Test 1-2002 Mitsubishi Eclipse

P1 Right Upper Tibia My

Max: 39.4 [N-m] at 0.119 [s]

Min: -197.9 [N-m] at 0.043 [s]



B-49

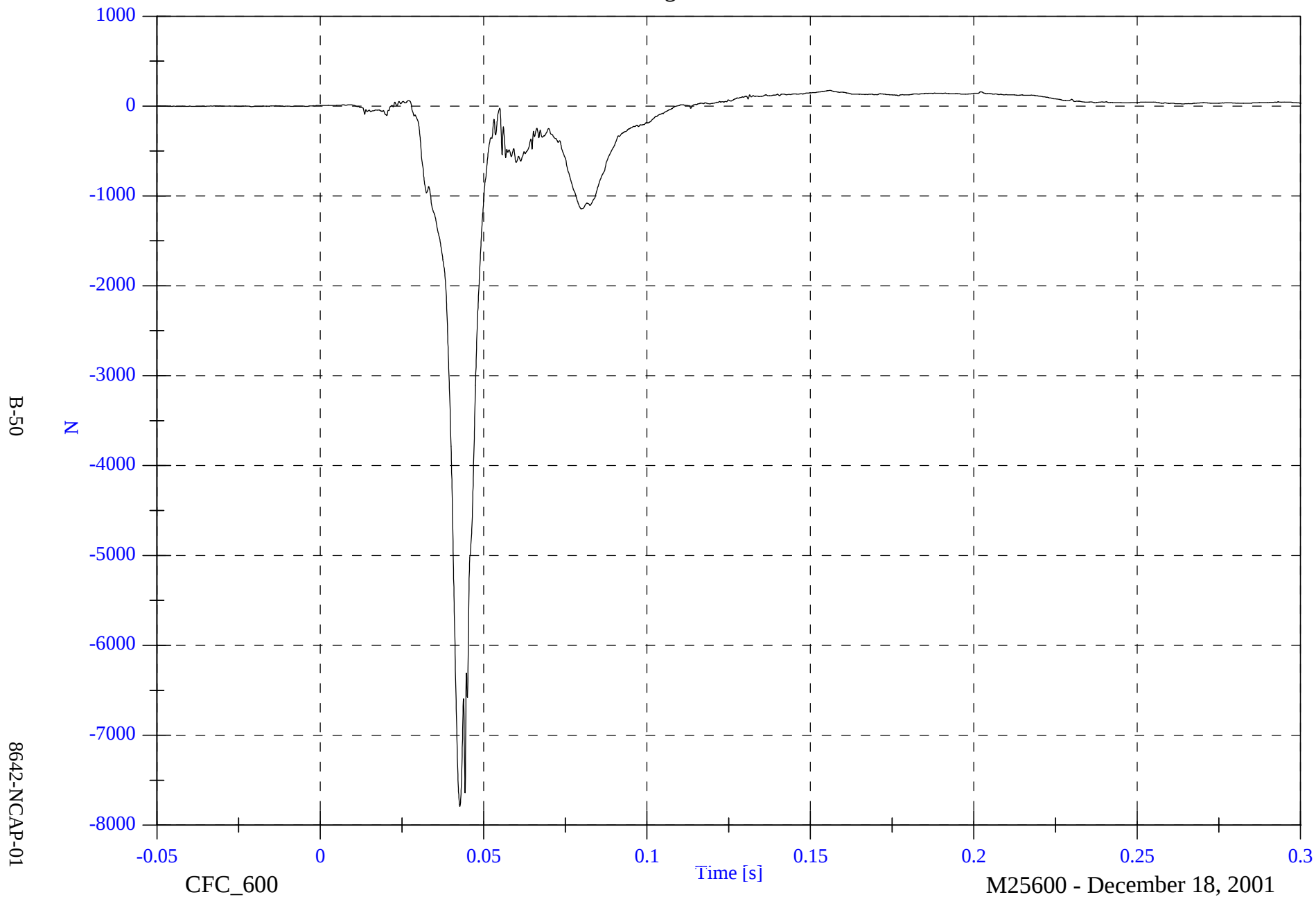
8642-NCAP-01

2002 NCAP Test 1-2002 Mitsubishi Eclipse

P1 Right Lower Tibia Fz

Max: 175.7 [N] at 0.156 [s]

Min: -7792.6 [N] at 0.043 [s]



2002 NCAP Test 1-2002 Mitsubishi Eclipse

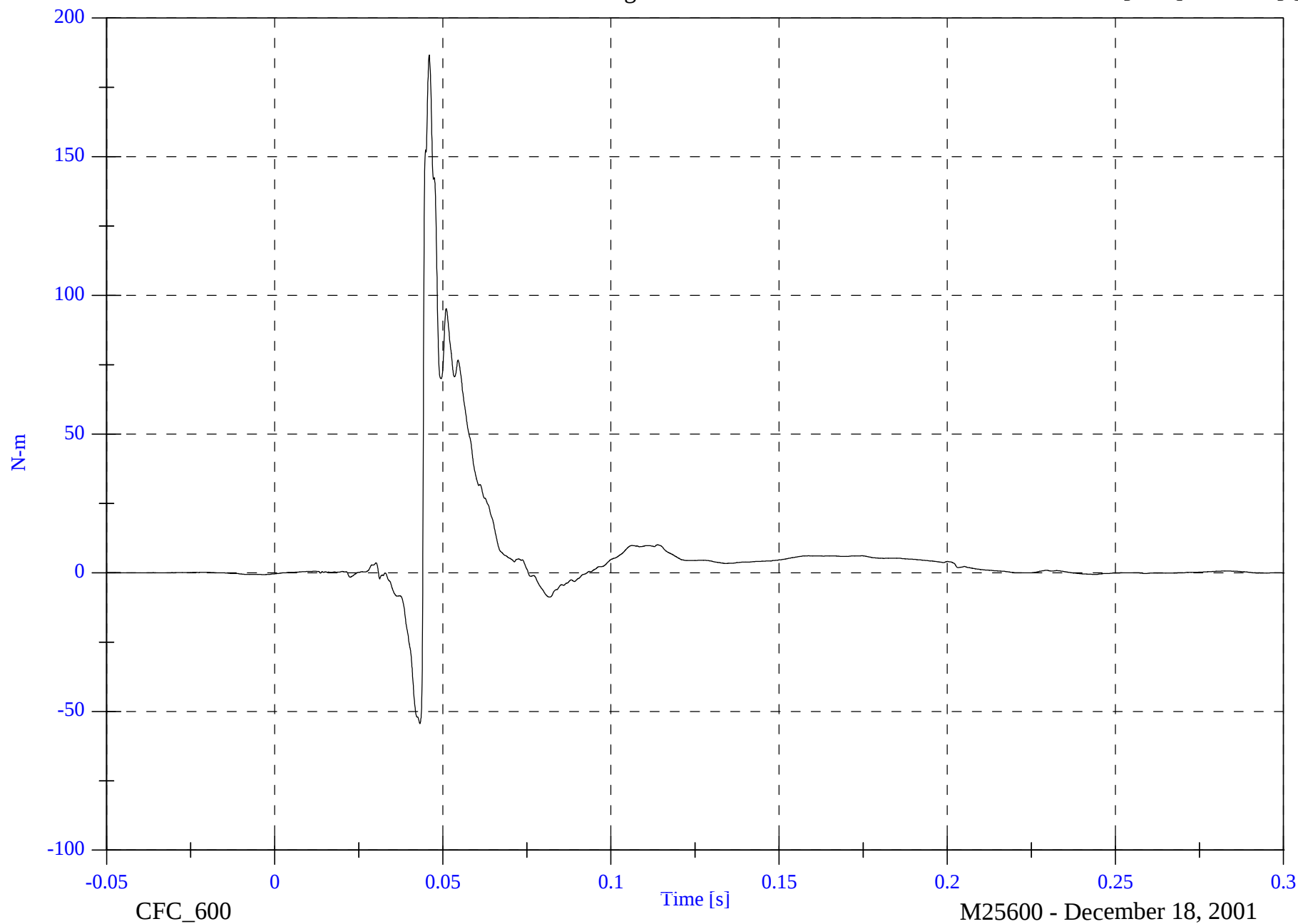
P1 Right Lower Tibia Mx

Max: 186.7 [N-m] at 0.046 [s]

Min: -54.4 [N-m] at 0.043 [s]

B-51

8642-NCAP-01



2002 NCAP Test 1-2002 Mitsubishi Eclipse

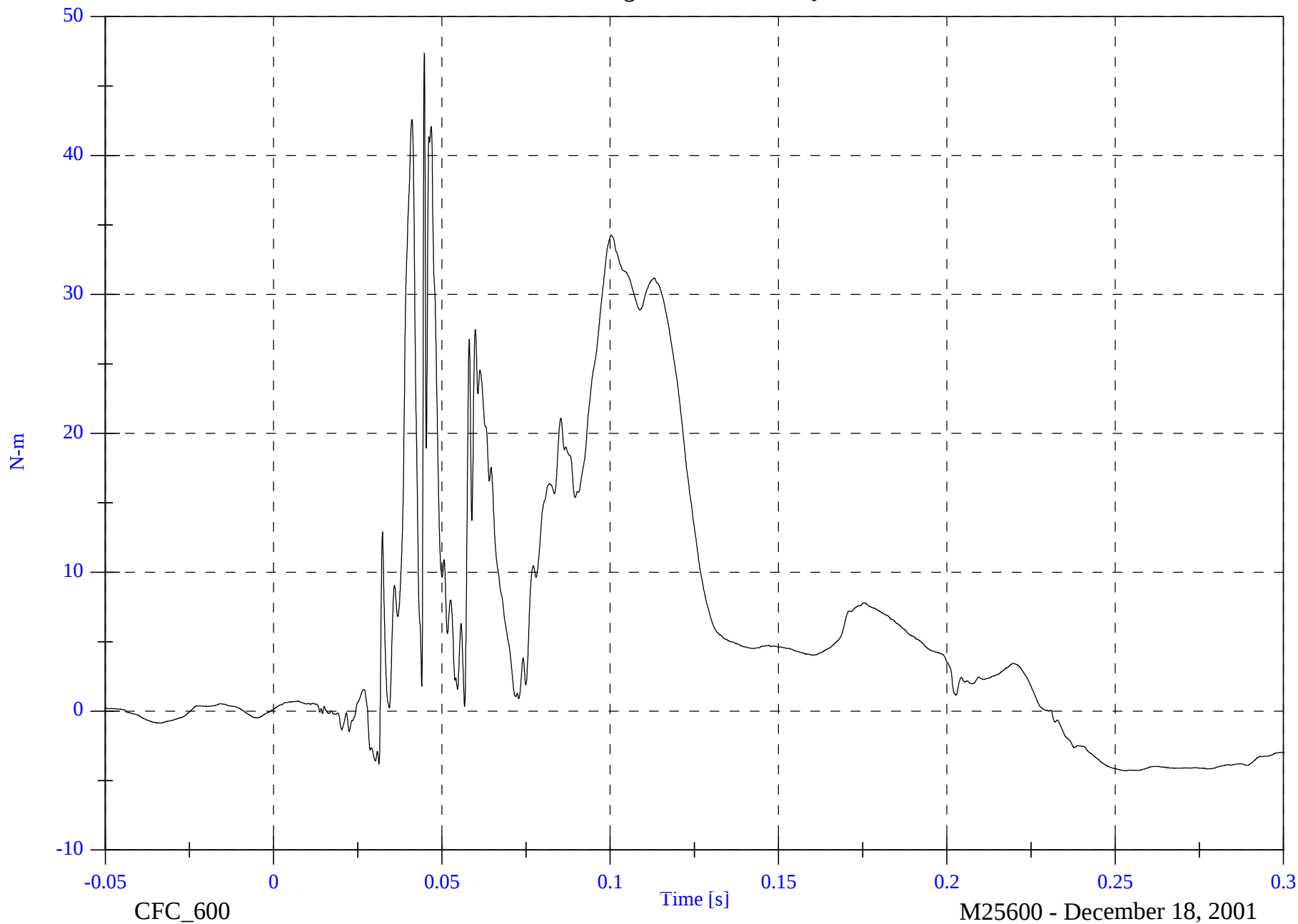
P1 Right Lower Tibia My

Max: 47.4 [N-m] at 0.045 [s]

Min: -4.3 [N-m] at 0.253 [s]

B-52

8642-NCAP-01

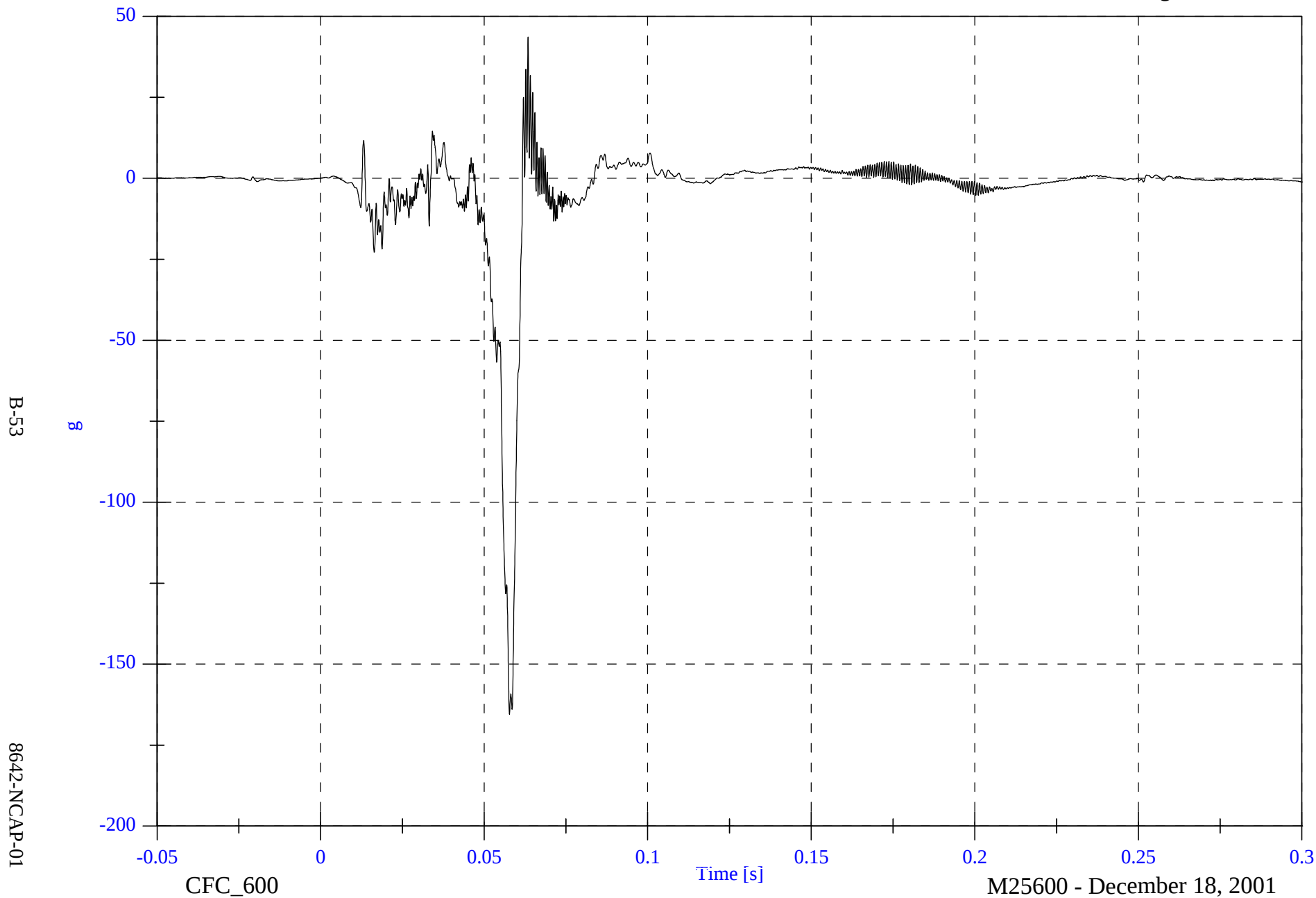


2002 NCAP Test 1-2002 Mitsubishi Eclipse

P1 Left Foot Aft x

Max: 43.6 [g] at 0.063 [s]

Min: -165.5 [g] at 0.058 [s]

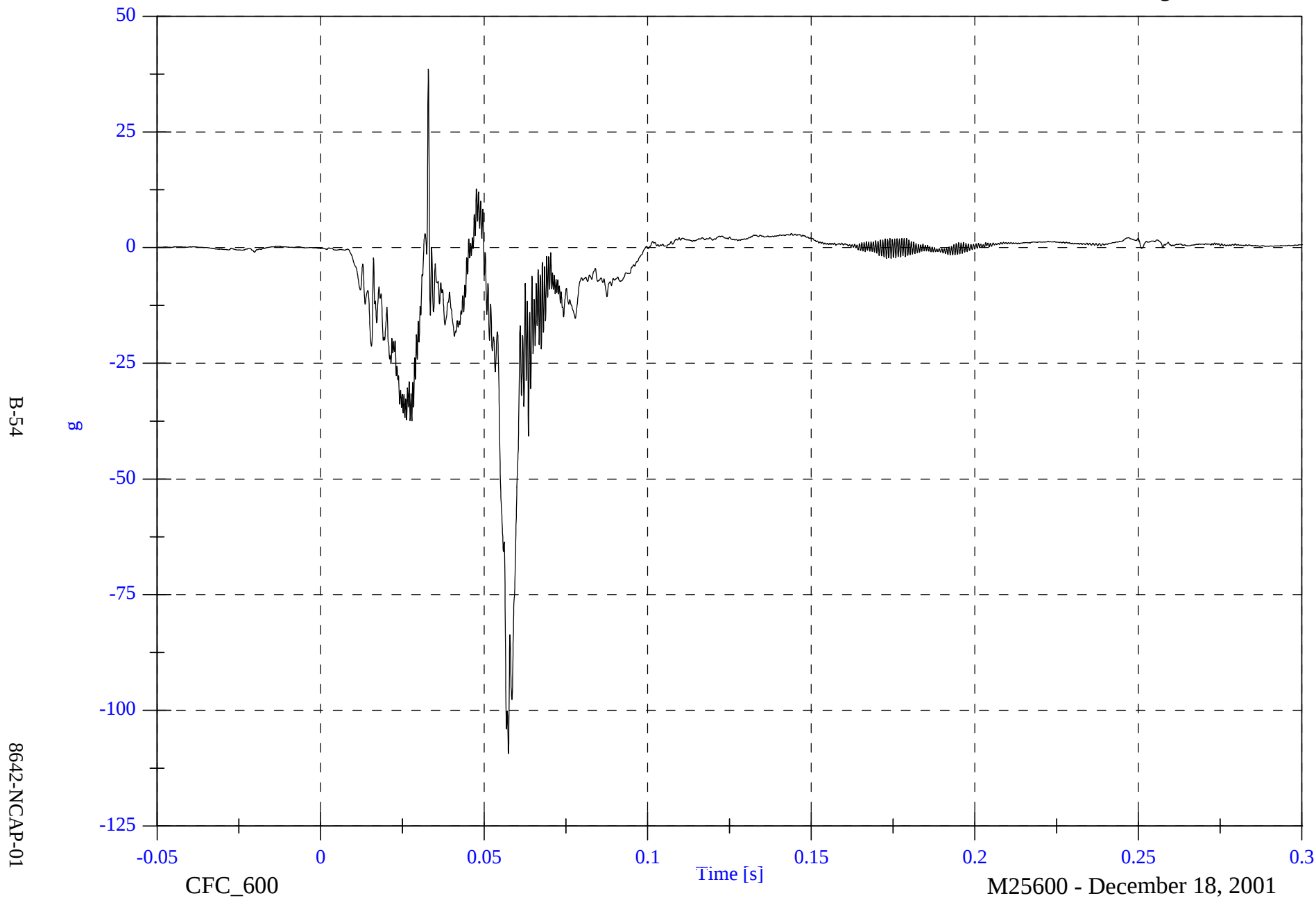


2002 NCAP Test 1-2002 Mitsubishi Eclipse

P1 Left Foot Aft z

Max: 38.6 [g] at 0.033 [s]

Min: -109.4 [g] at 0.057 [s]

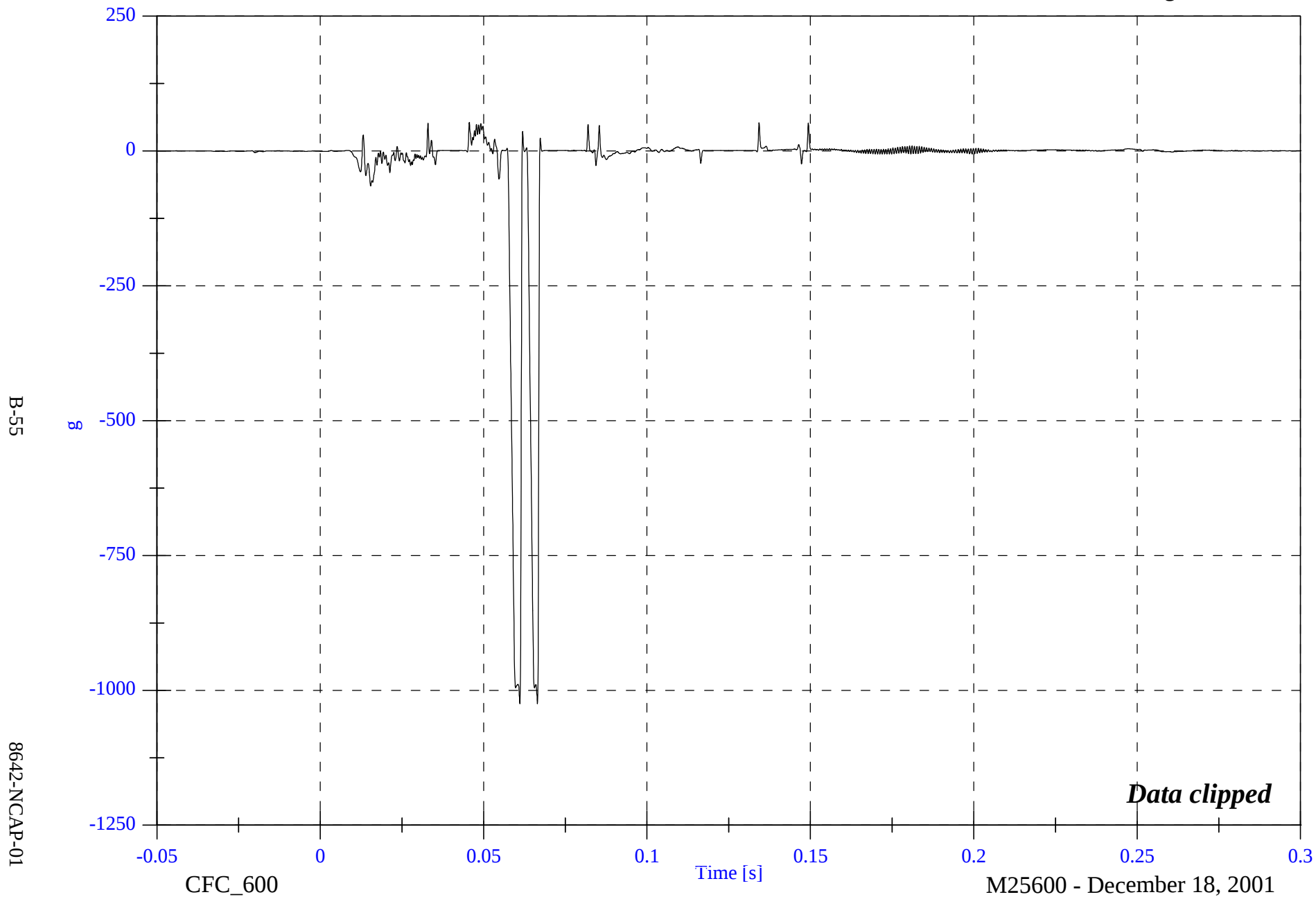


2002 NCAP Test 1-2002 Mitsubishi Eclipse

Max: 53.3 [g] at 0.046 [s]

Min: -1024.8 [g] at 0.066 [s]

P1 Left Foot Fore z

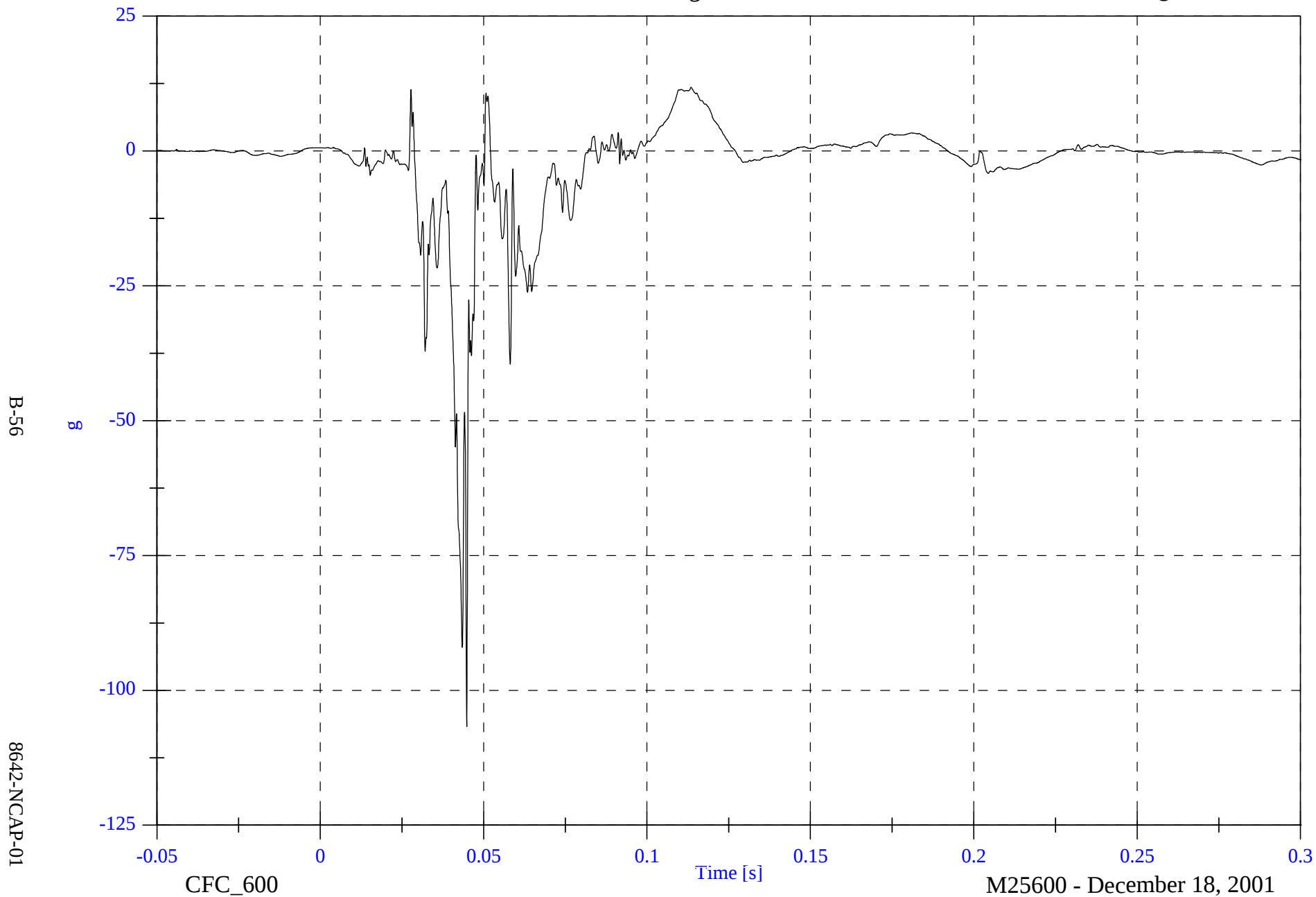


2002 NCAP Test 1-2002 Mitsubishi Eclipse

Max: 11.8 [g] at 0.113 [s]

Min: -106.7 [g] at 0.045 [s]

P1 Right Foot Aft x

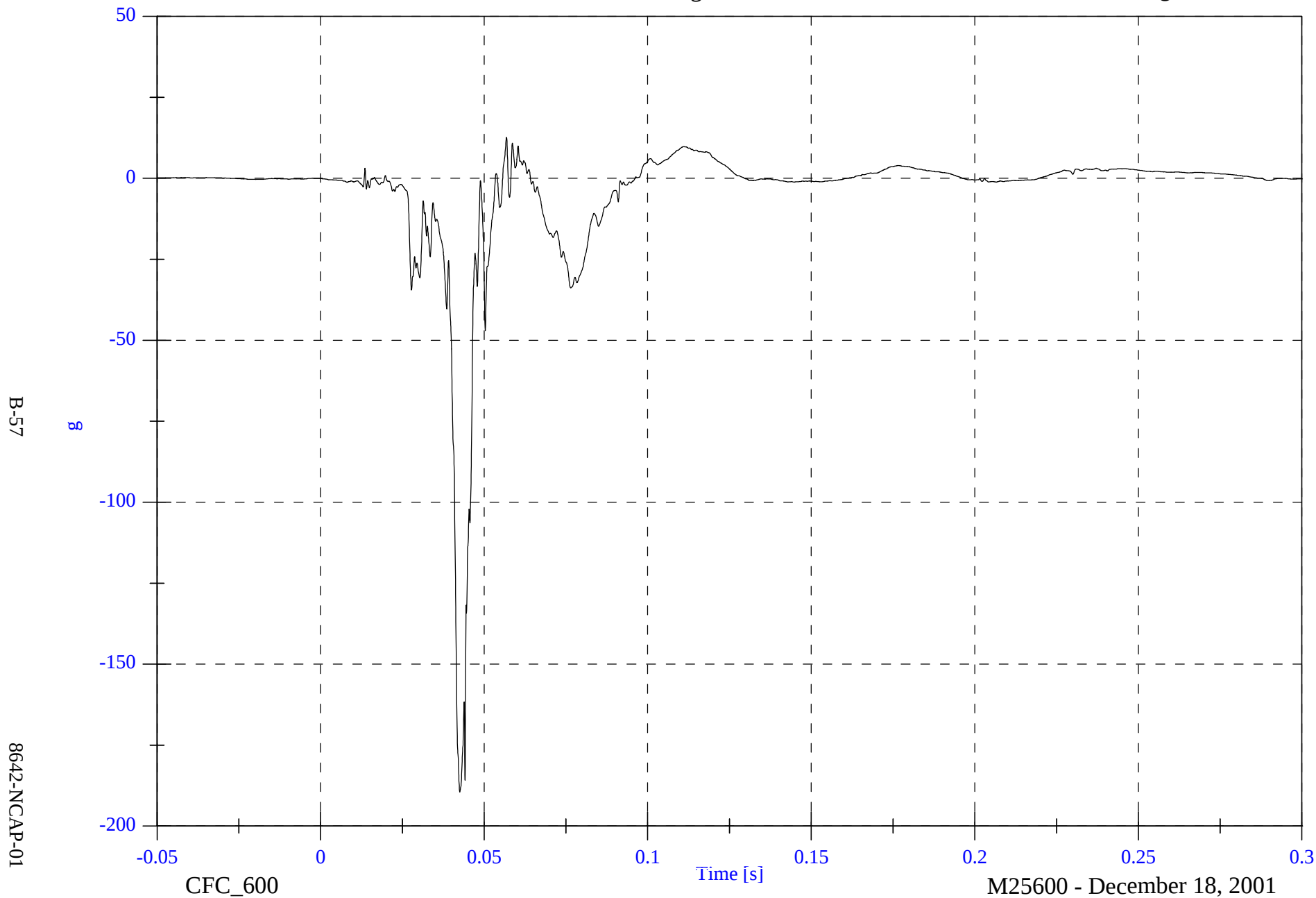


2002 NCAP Test 1-2002 Mitsubishi Eclipse

P1 Right Foot Aft z

Max: 12.6 [g] at 0.057 [s]

Min: -189.5 [g] at 0.043 [s]



2002 NCAP Test 1-2002 Mitsubishi Eclipse

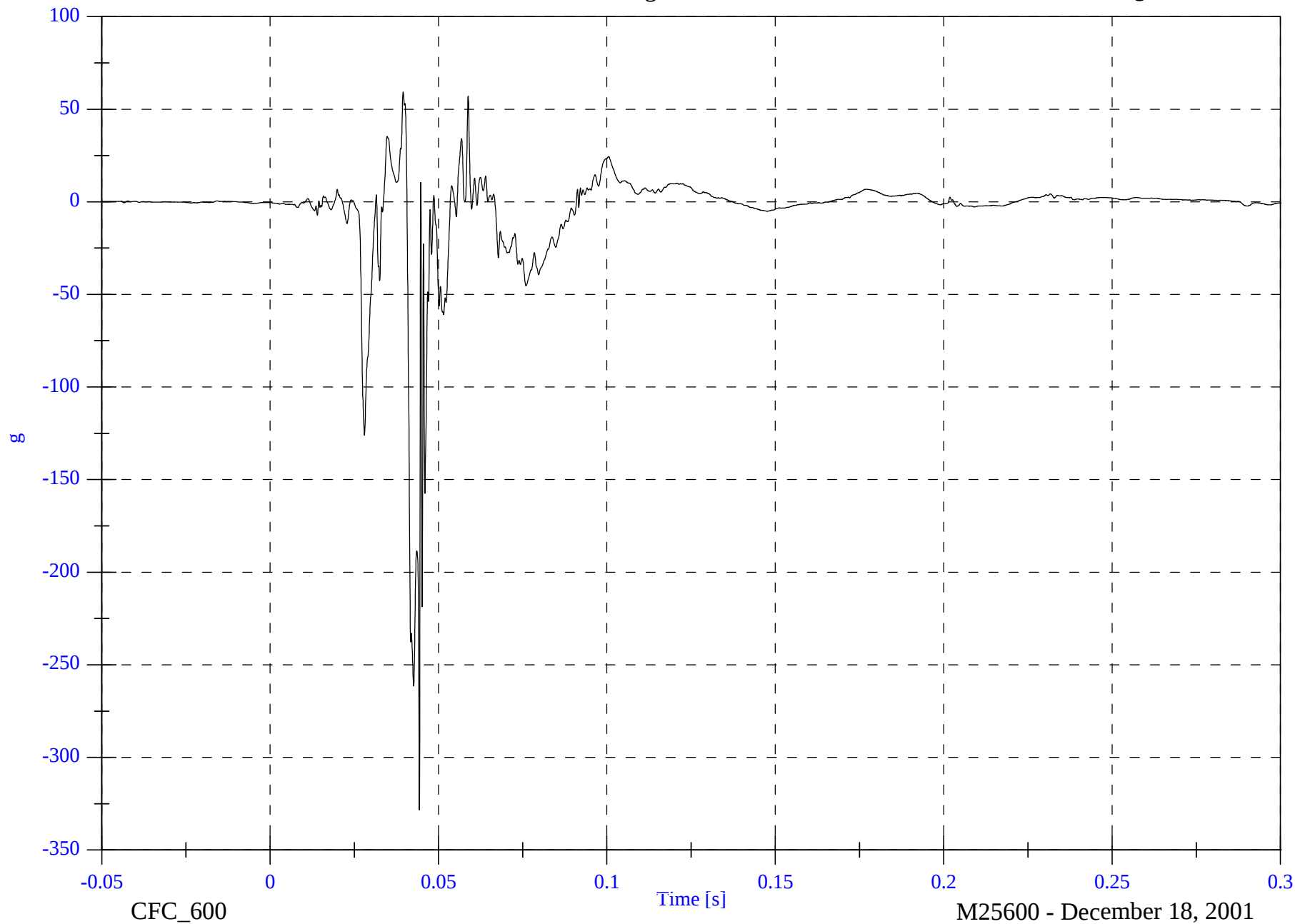
P1 Right Foot Fore z

Max: 59.4 [g] at 0.040 [s]

Min: -328.5 [g] at 0.044 [s]

B-58

8642-NCAP-01

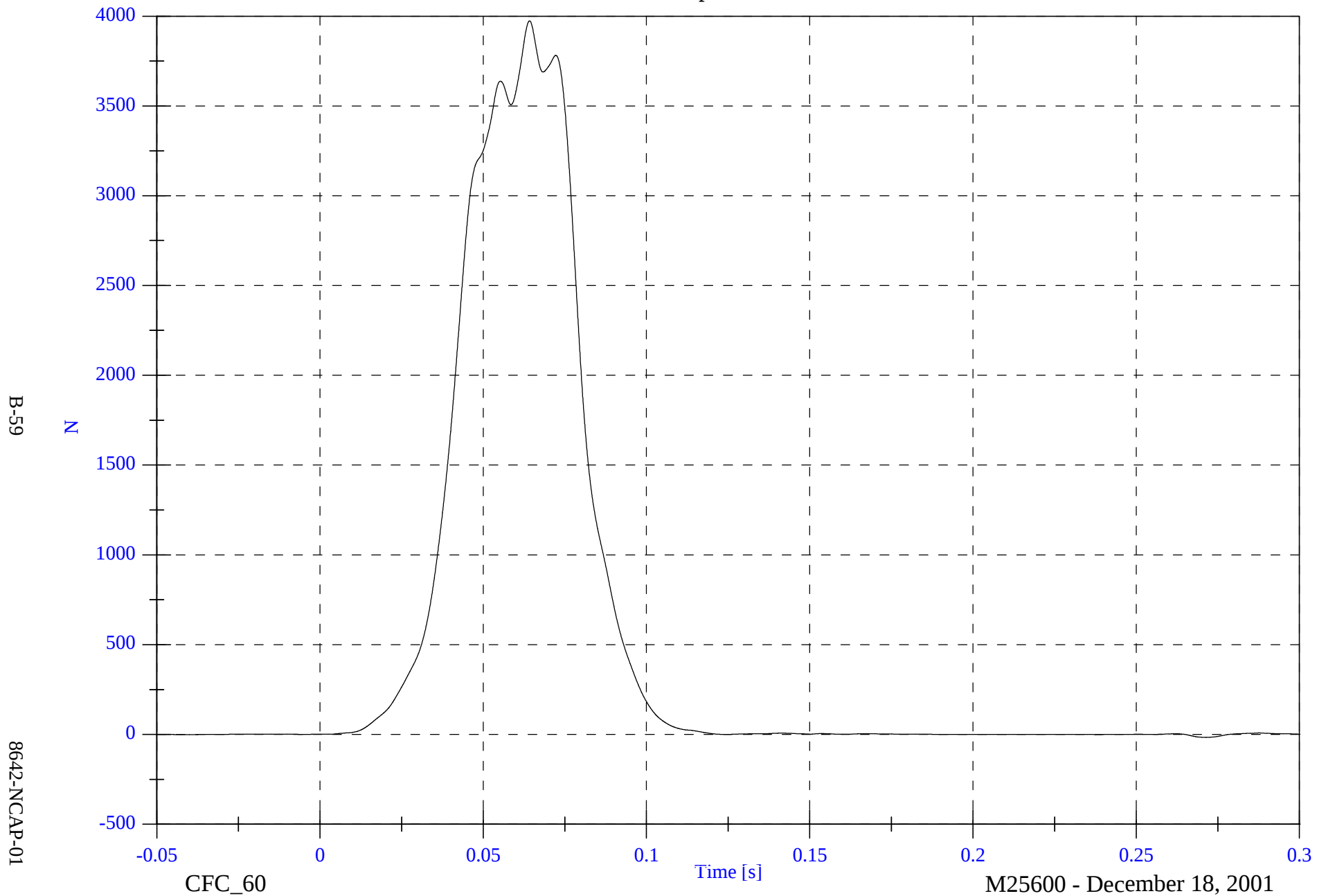


2002 NCAP Test 1-2002 Mitsubishi Eclipse

P1 Lap Belt Force

Max: 3973.9 [N] at 0.064 [s]

Min: -16.5 [N] at 0.271 [s]

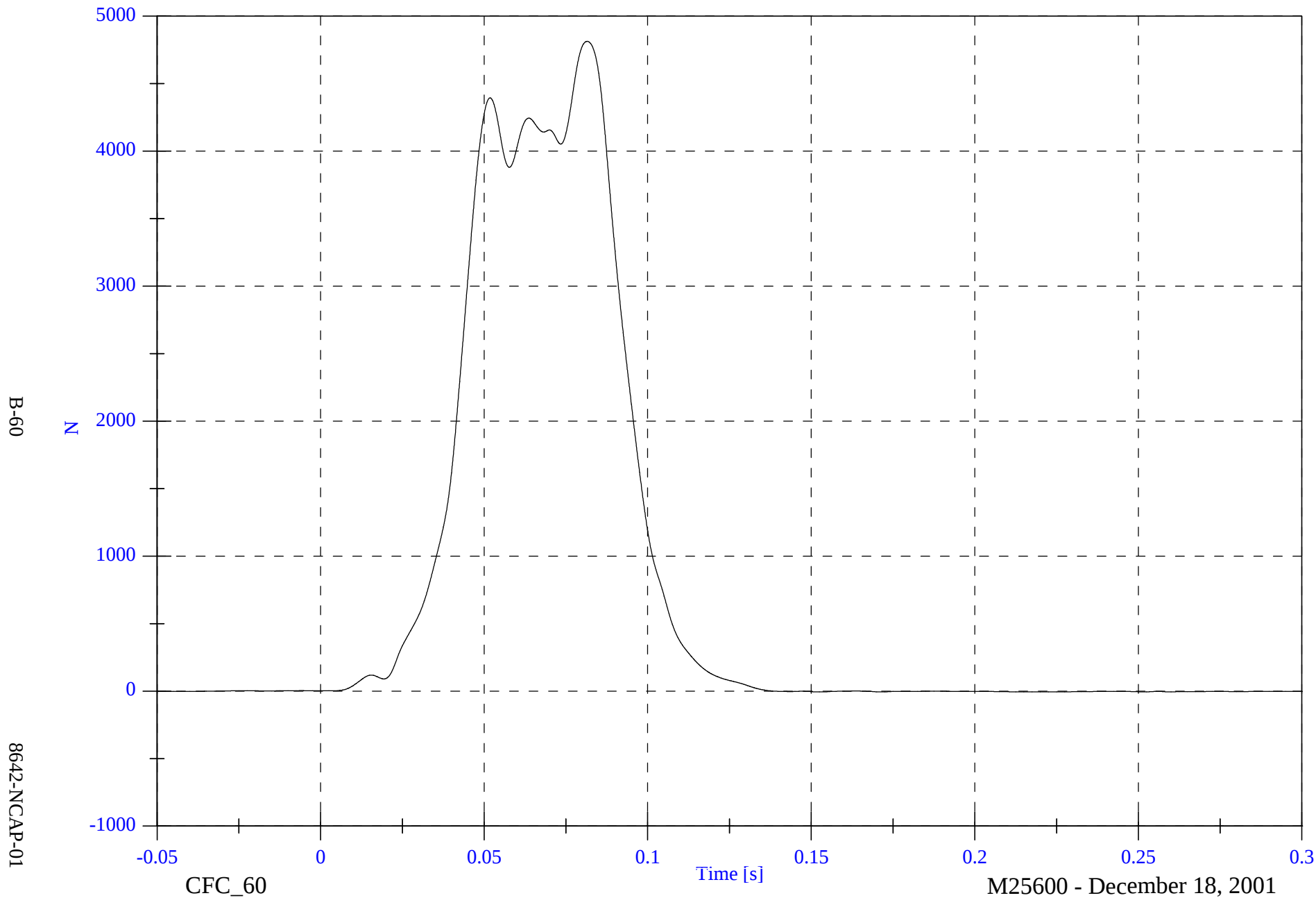


2002 NCAP Test 1-2002 Mitsubishi Eclipse

P1 Shoulder Belt Force

Max: 4813.9 [N] at 0.082 [s]

Min: -6.2 [N] at 0.152 [s]

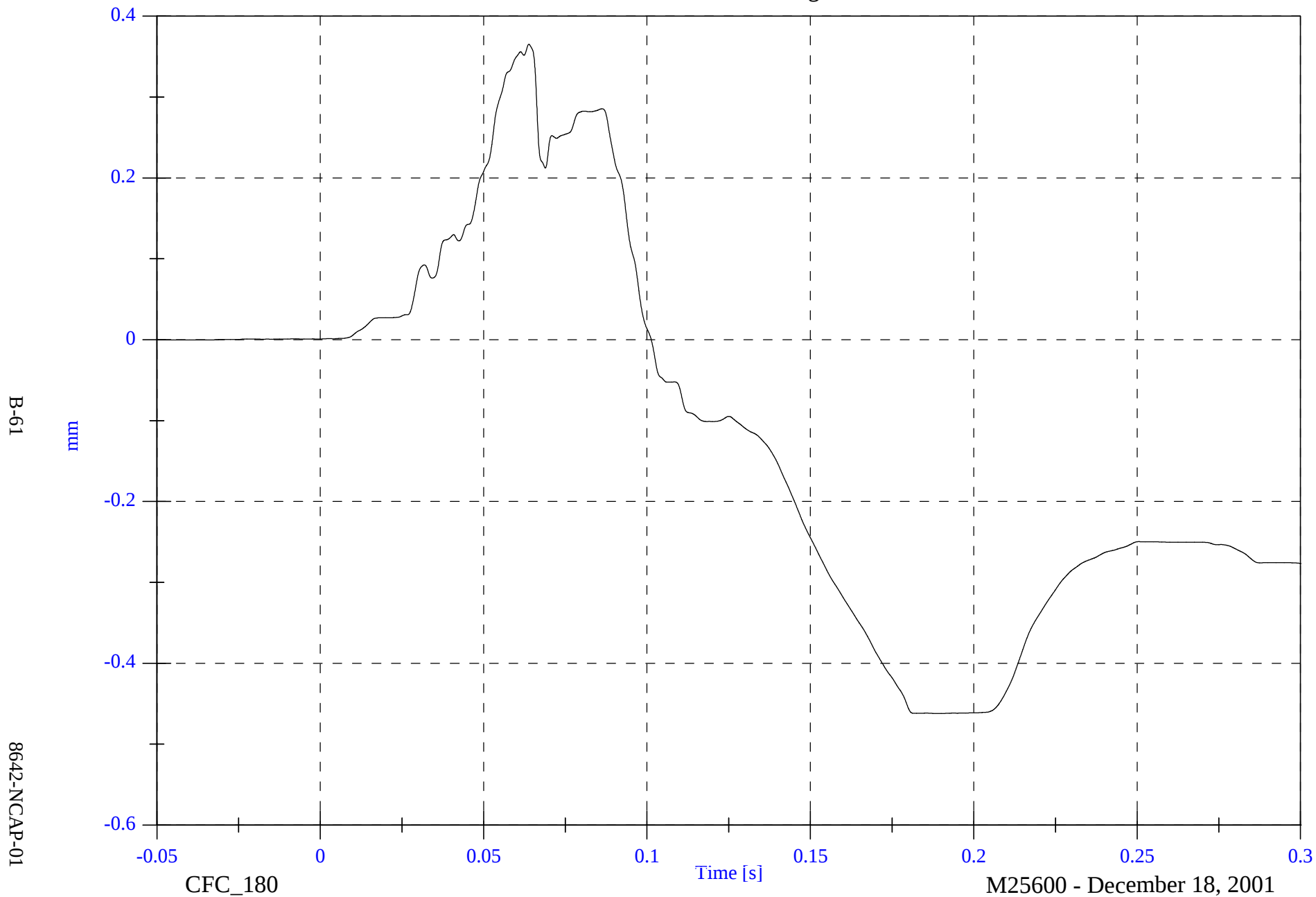


2002 NCAP Test 1-2002 Mitsubishi Eclipse

P1 Shoulder Belt Elongation

Max: 0.4 [mm] at 0.064 [s]

Min: -0.5 [mm] at 0.189 [s]



2002 NCAP Test 1-2002 Mitsubishi Eclipse

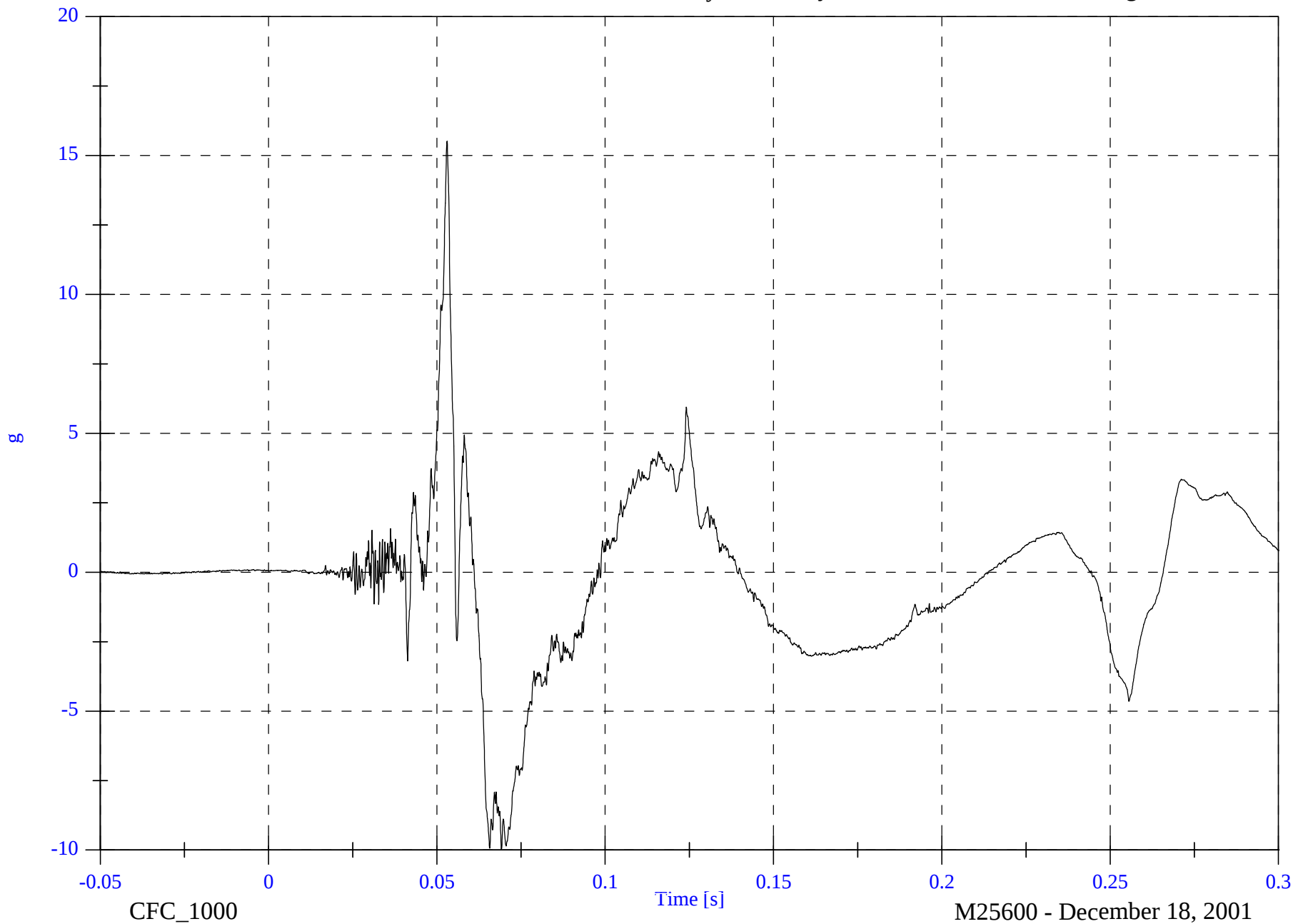
P2 Head 9 Array X Arm Ay

Max: 15.5 [g] at 0.053 [s]

Min: -10.0 [g] at 0.069 [s]

B-62

8642-NCAP-01



2002 NCAP Test 1-2002 Mitsubishi Eclipse

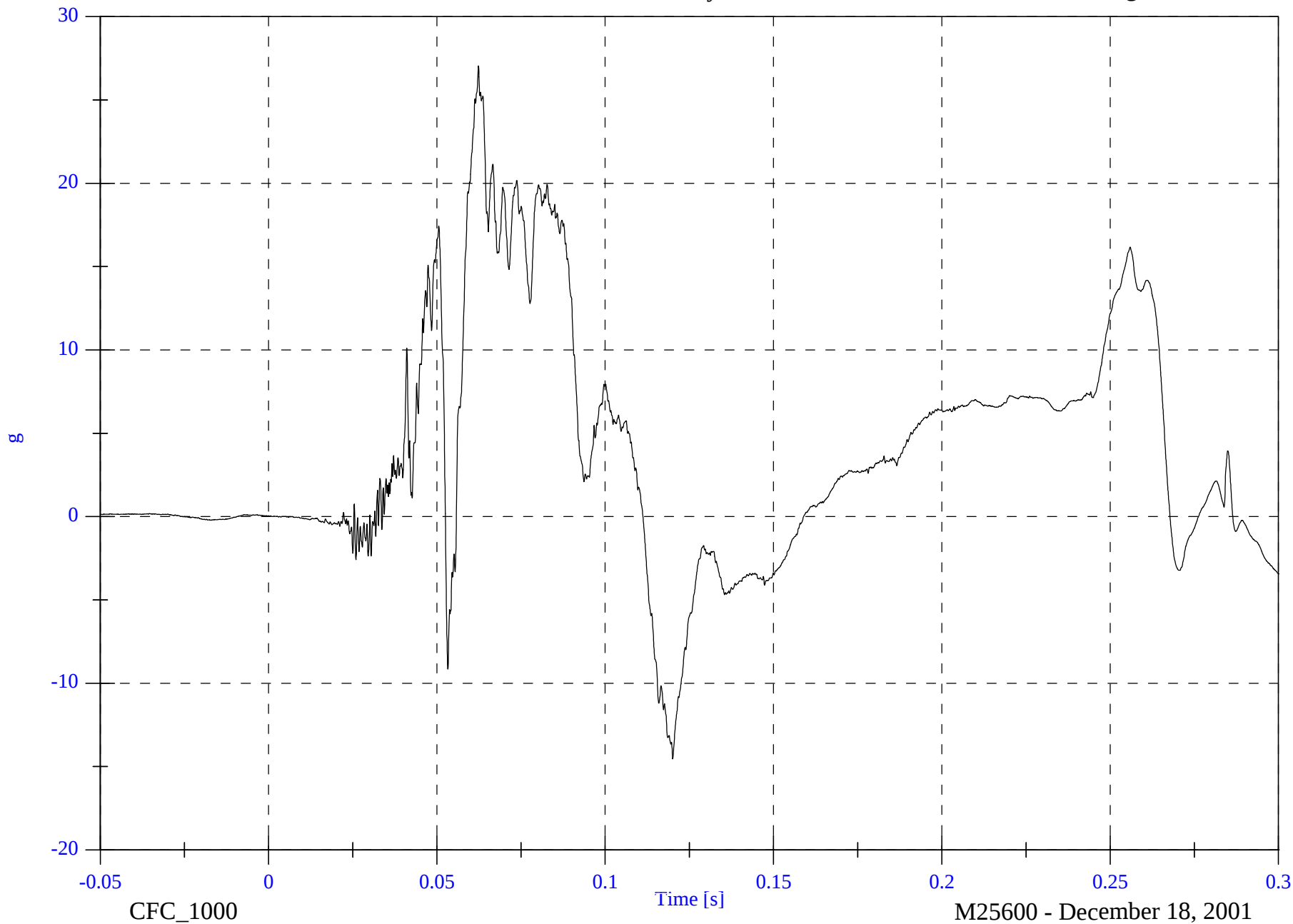
P2 Head 9 Array X Arm Az

Max: 27.1 [g] at 0.062 [s]

Min: -14.5 [g] at 0.120 [s]

B-63

8642-NCAP-01

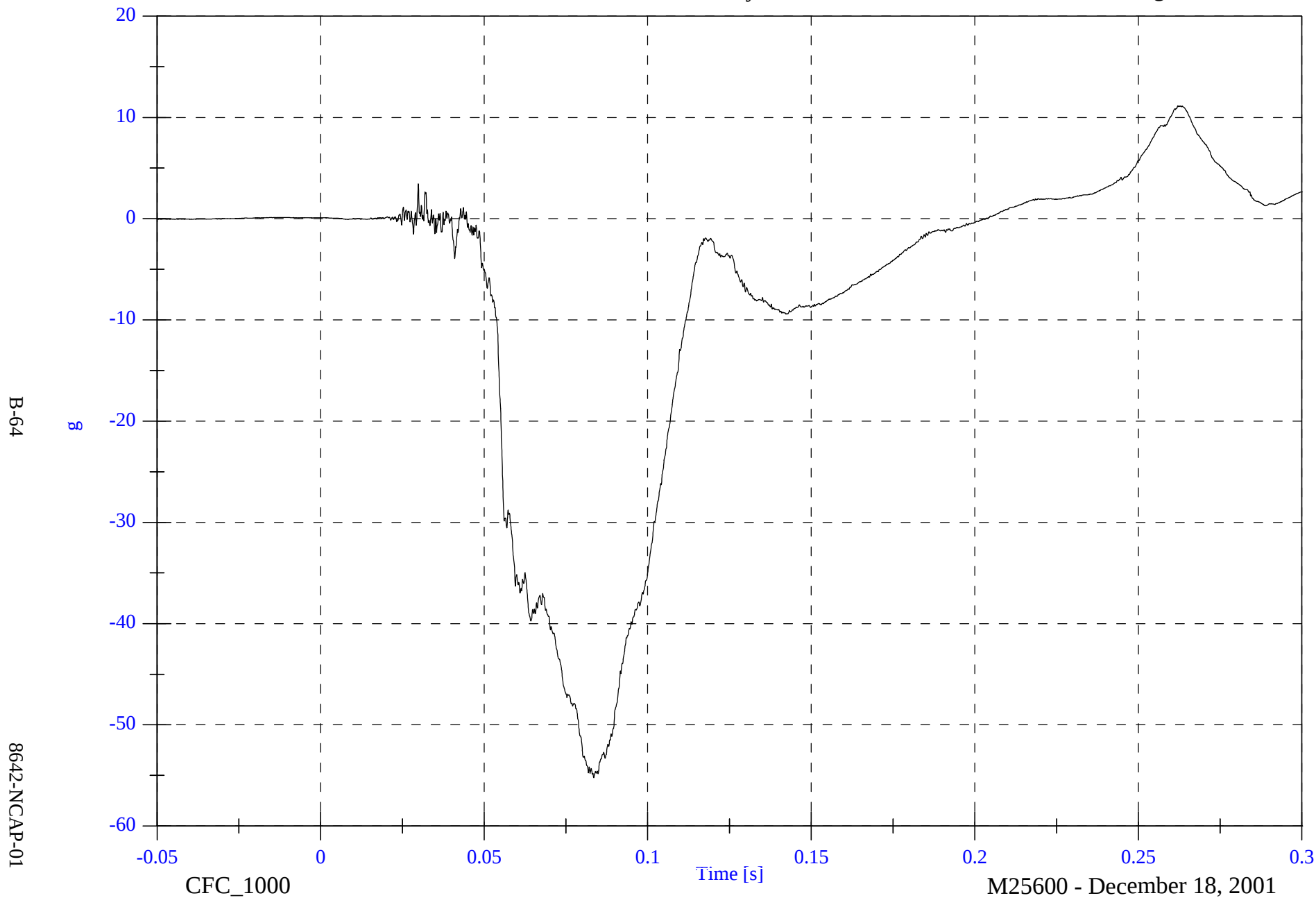


2002 NCAP Test 1-2002 Mitsubishi Eclipse

P2 Head 9 Array Y Arm Ax

Max: 11.2 [g] at 0.262 [s]

Min: -55.2 [g] at 0.084 [s]



2002 NCAP Test 1-2002 Mitsubishi Eclipse

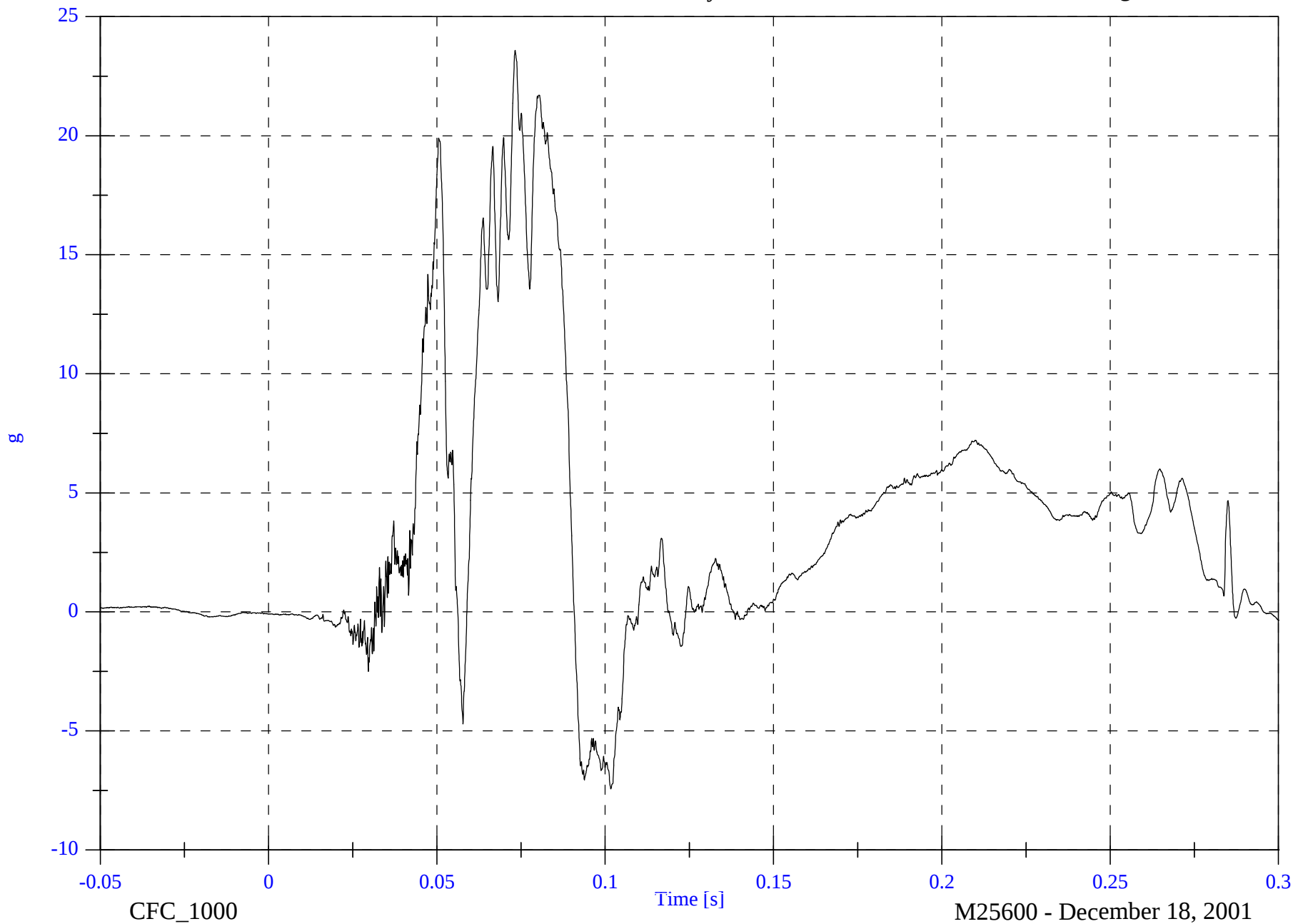
P2 Head 9 Array Y Arm Az

Max: 23.6 [g] at 0.073 [s]

Min: -7.4 [g] at 0.102 [s]

B-65

8642-NCAP-01

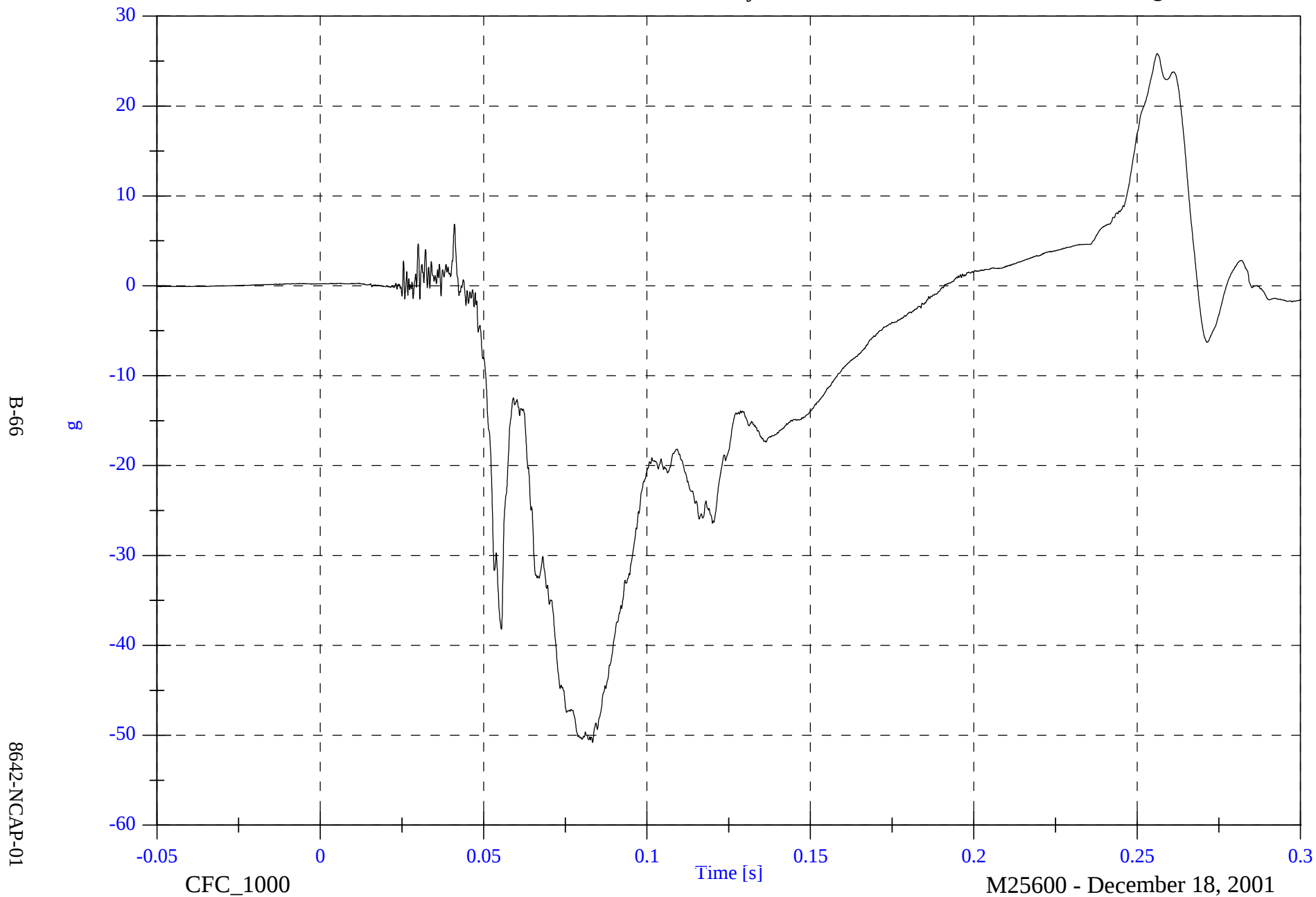


2002 NCAP Test 1-2002 Mitsubishi Eclipse

P2 Head 9 Array Z Arm Ax

Max: 25.9 [g] at 0.256 [s]

Min: -50.8 [g] at 0.083 [s]



2002 NCAP Test 1-2002 Mitsubishi Eclipse

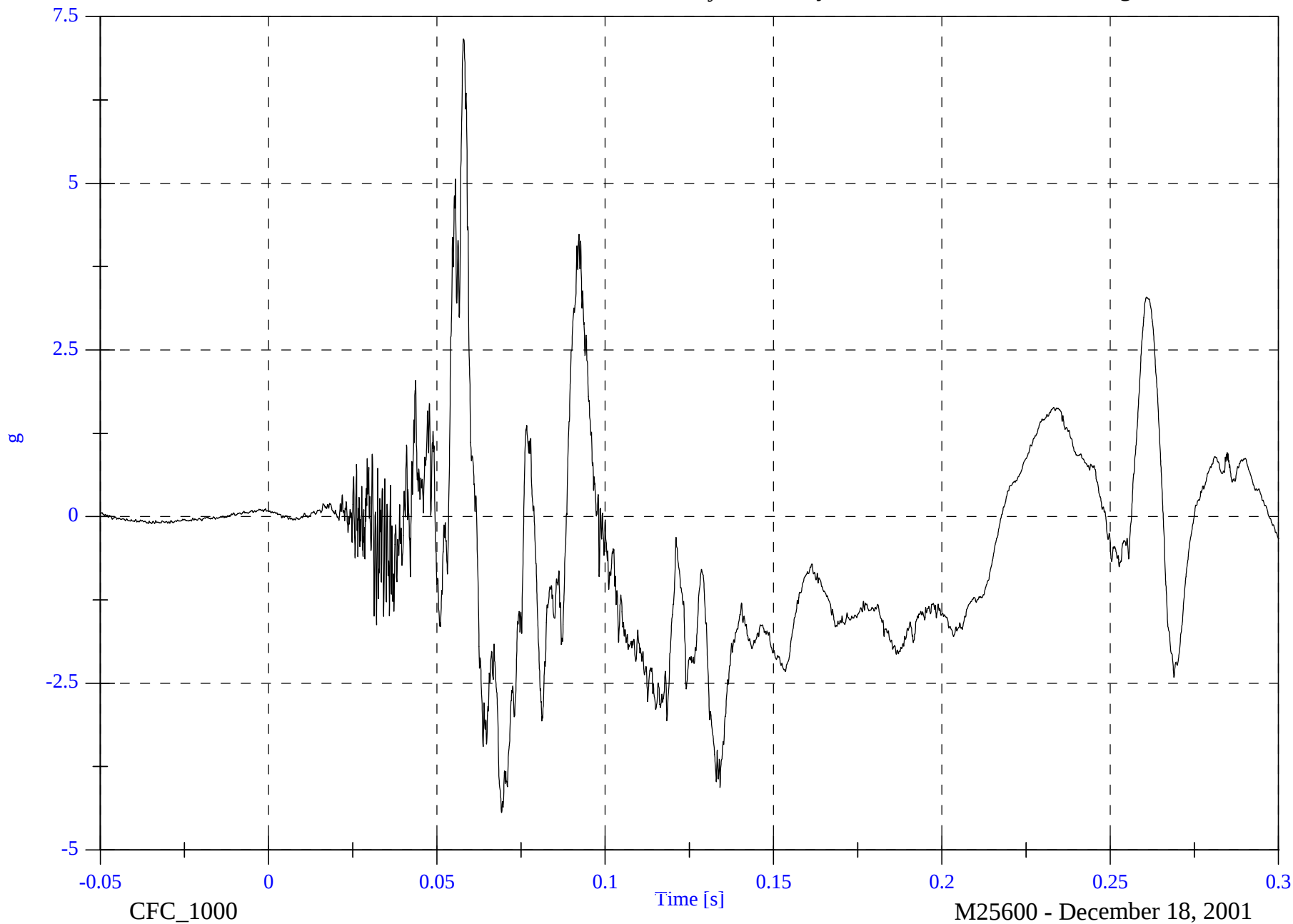
P2 Head 9 Array Z Arm Ay

Max: 7.2 [g] at 0.058 [s]

Min: -4.4 [g] at 0.069 [s]

B-67

8642-NCAP-01

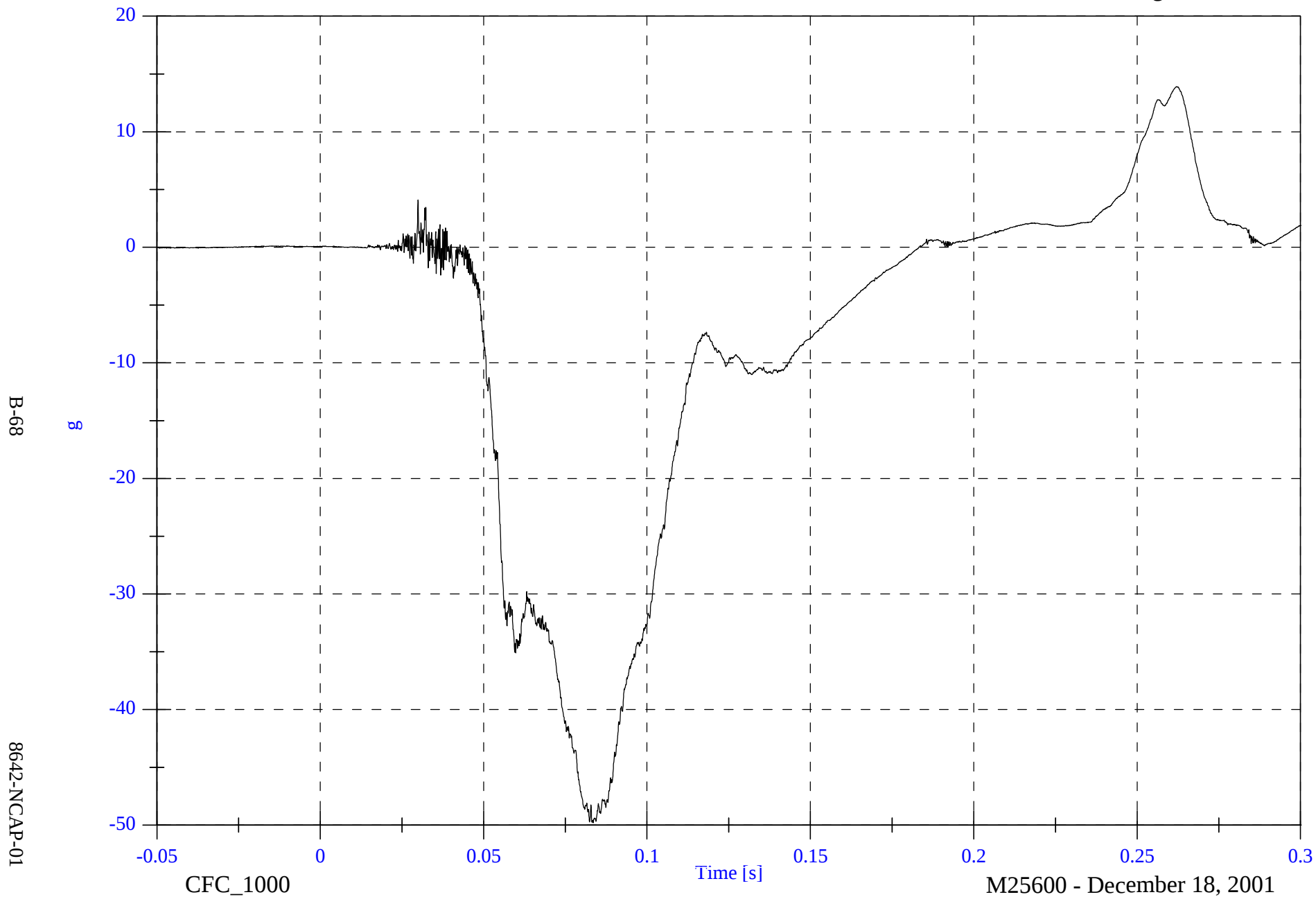


2002 NCAP Test 1-2002 Mitsubishi Eclipse

P2 Head CG x

Max: 13.9 [g] at 0.262 [s]

Min: -49.8 [g] at 0.084 [s]



2002 NCAP Test 1-2002 Mitsubishi Eclipse

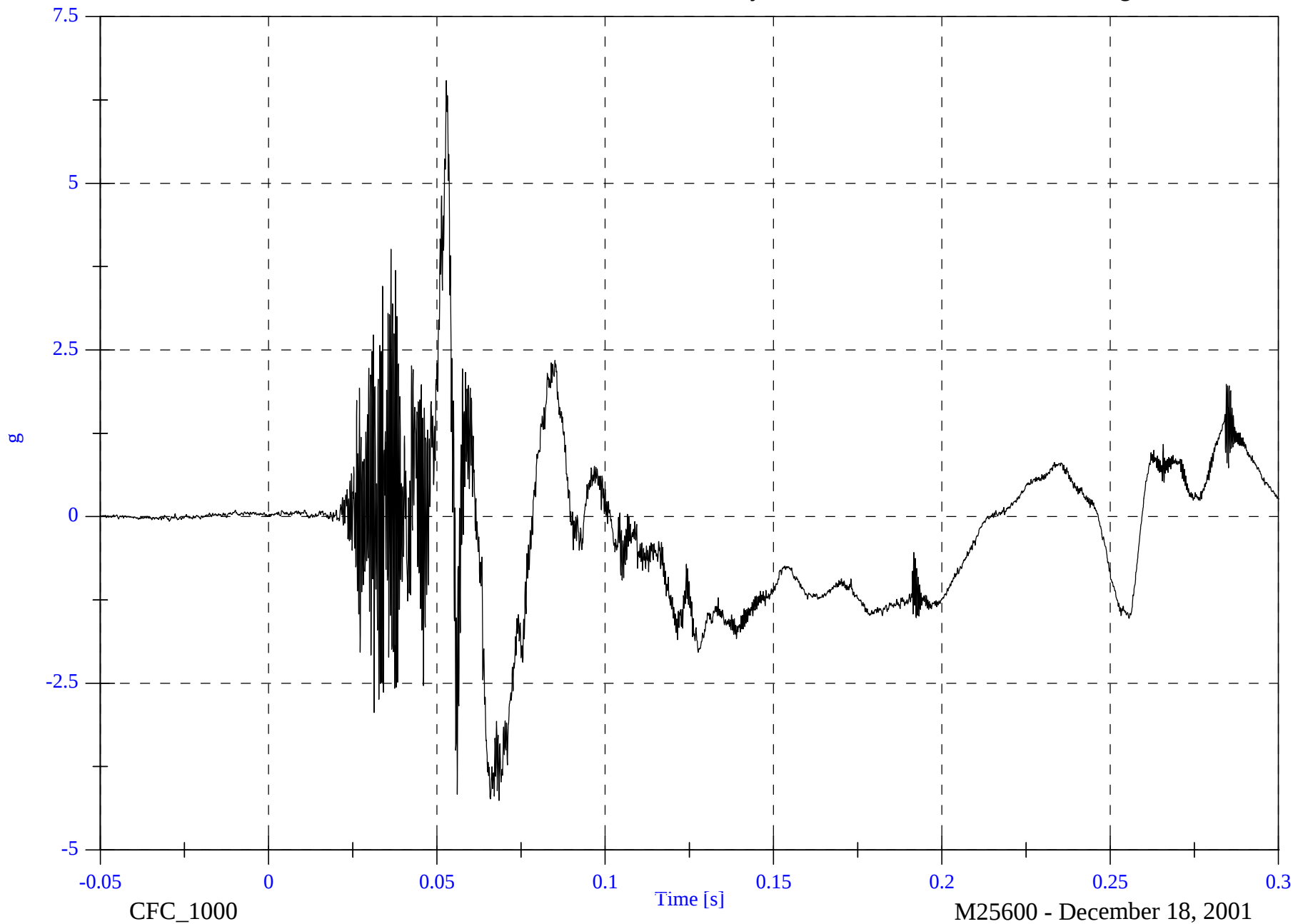
P2 Head CG y

Max: 6.5 [g] at 0.053 [s]

Min: -4.3 [g] at 0.068 [s]

B-69

8642-NCAP-01



2002 NCAP Test 1-2002 Mitsubishi Eclipse

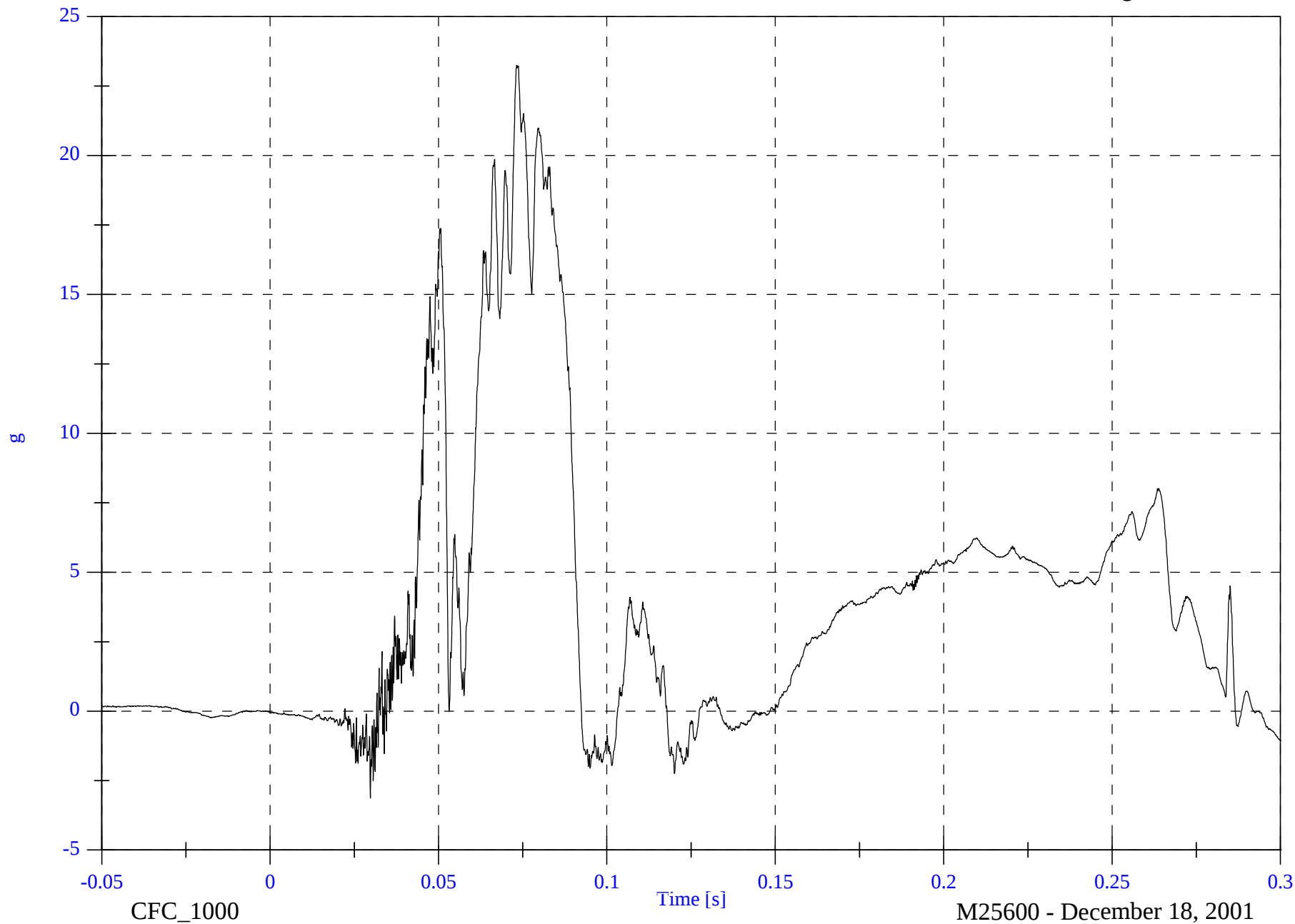
P2 Head CG z

Max: 23.3 [g] at 0.073 [s]

Min: -3.1 [g] at 0.030 [s]

B-70

8642-NCAP-01



2002 NCAP Test 1-2002 Mitsubishi Eclipse

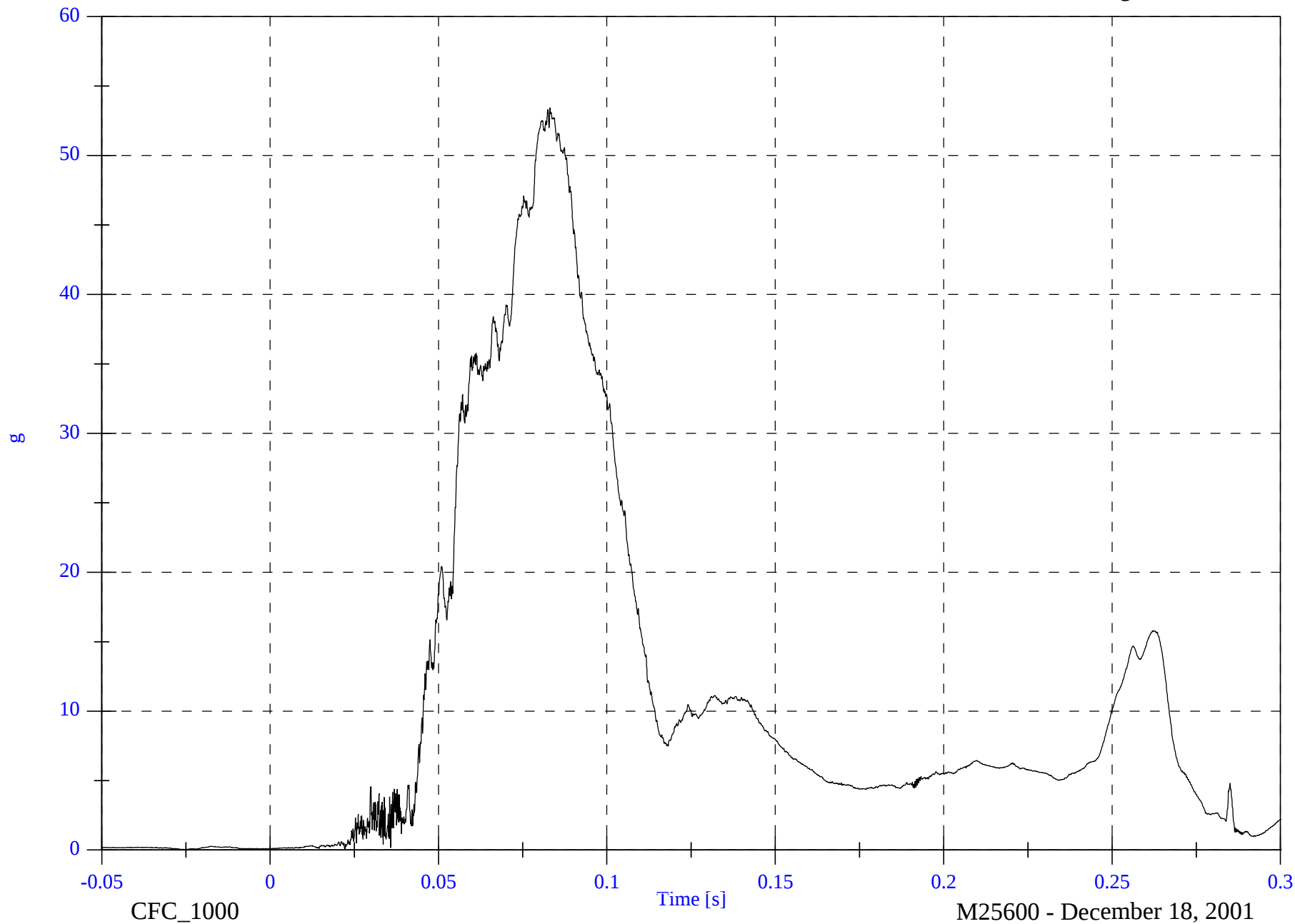
P2 Head CG Resultant

Max: 53.4 [g] at 0.083 [s]

Min: 0.0 [g] at -0.026 [s]

B-71

8642-NCAP-01

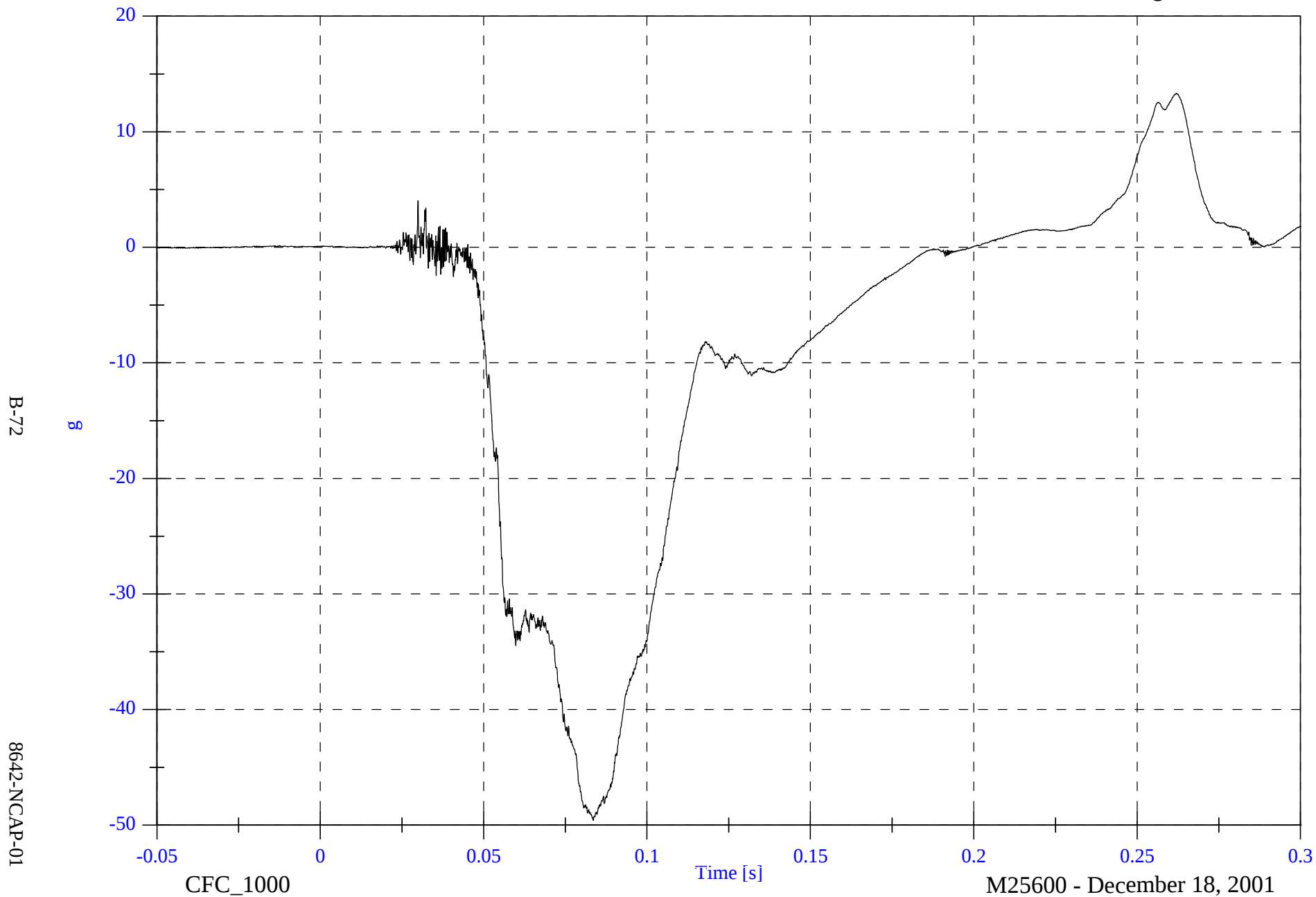


2002 NCAP Test 1-2002 Mitsubishi Eclipse

P2 Head CG Red x

Max: 13.3 [g] at 0.262 [s]

Min: -49.6 [g] at 0.084 [s]

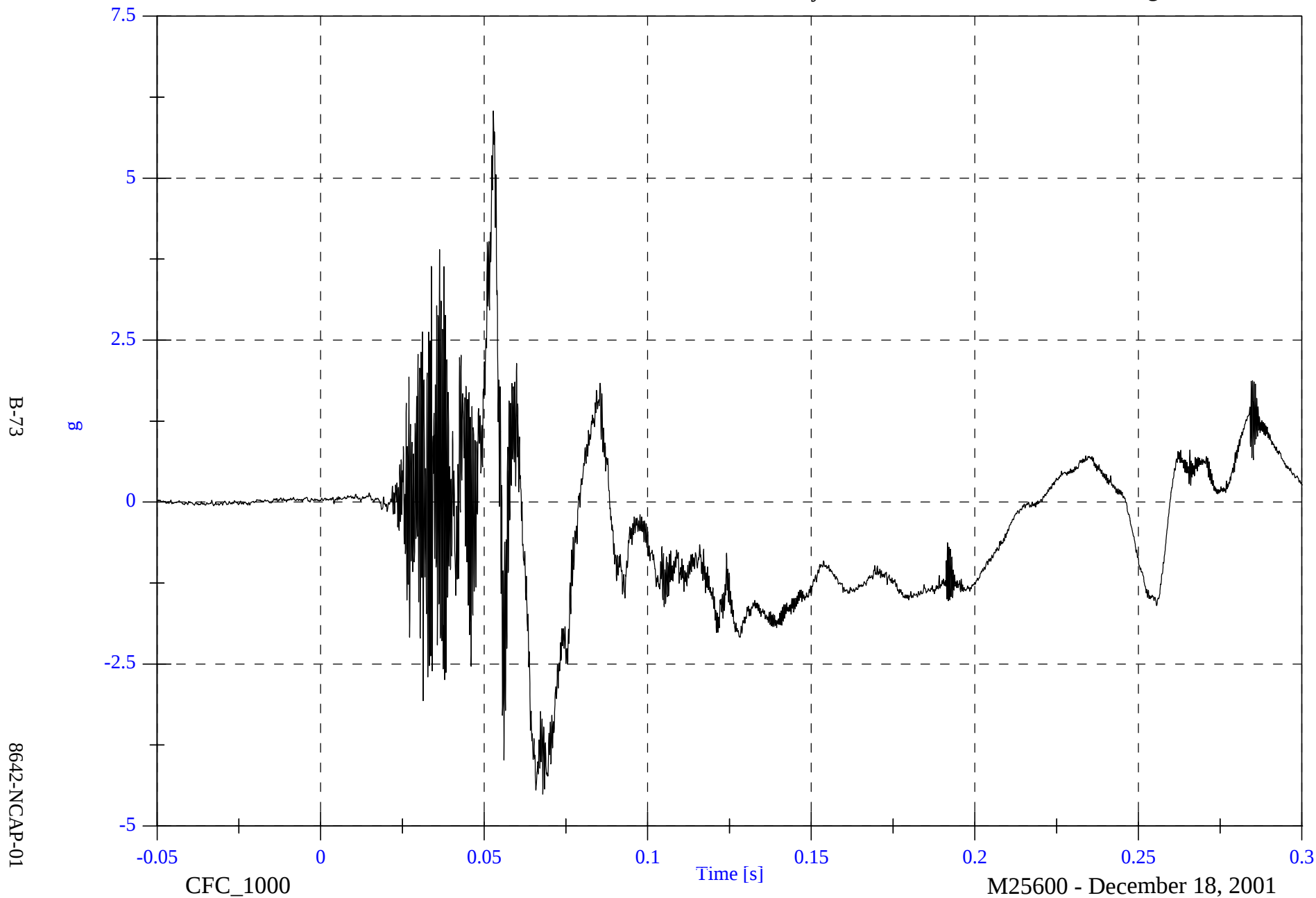


2002 NCAP Test 1-2002 Mitsubishi Eclipse

P2 Head CG Red y

Max: 6.0 [g] at 0.053 [s]

Min: -4.5 [g] at 0.068 [s]



2002 NCAP Test 1-2002 Mitsubishi Eclipse

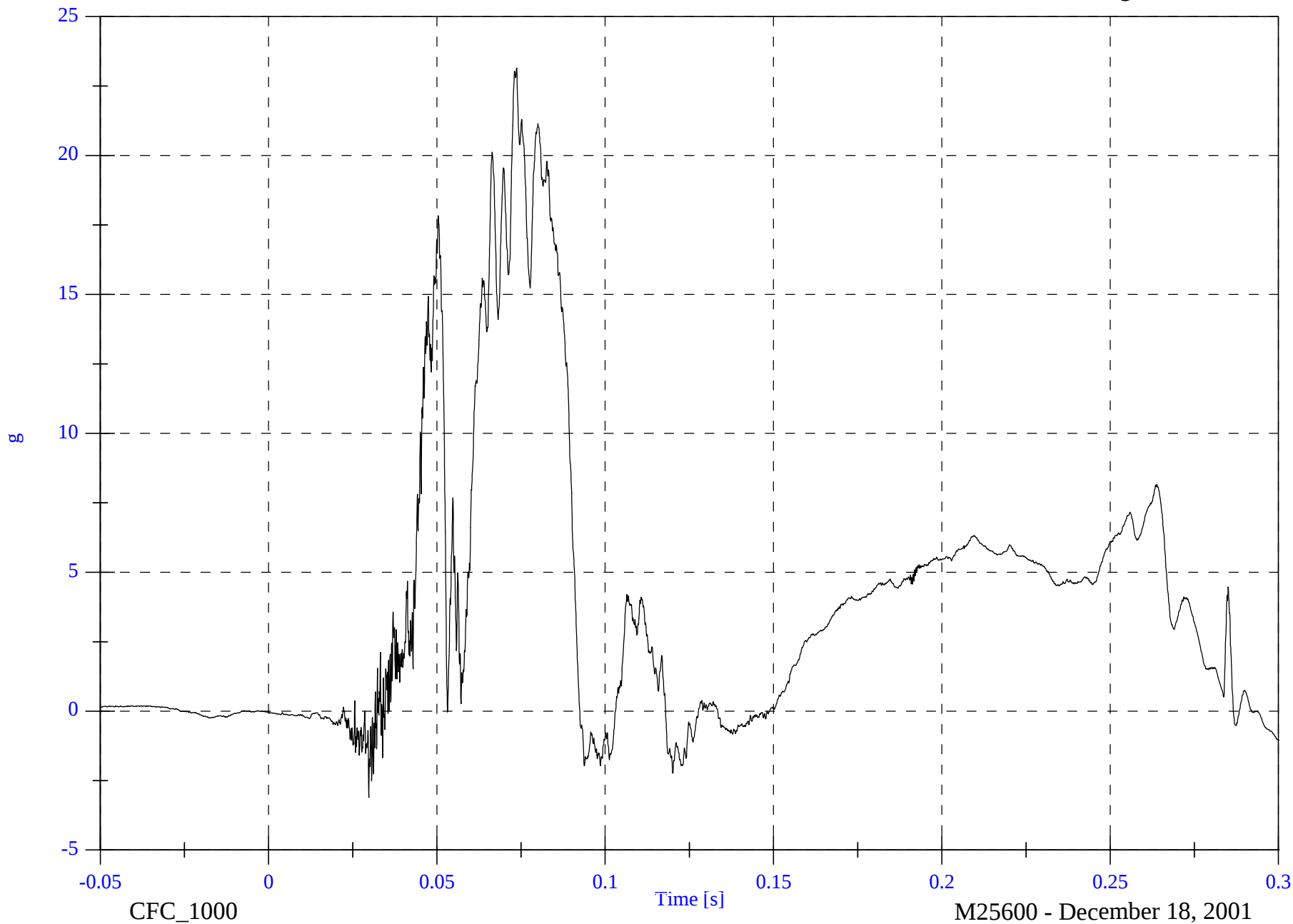
P2 Head CG Red z

Max: 23.2 [g] at 0.074 [s]

Min: -3.1 [g] at 0.030 [s]

B-74

8642-NCAP-01



2002 NCAP Test 1-2002 Mitsubishi Eclipse

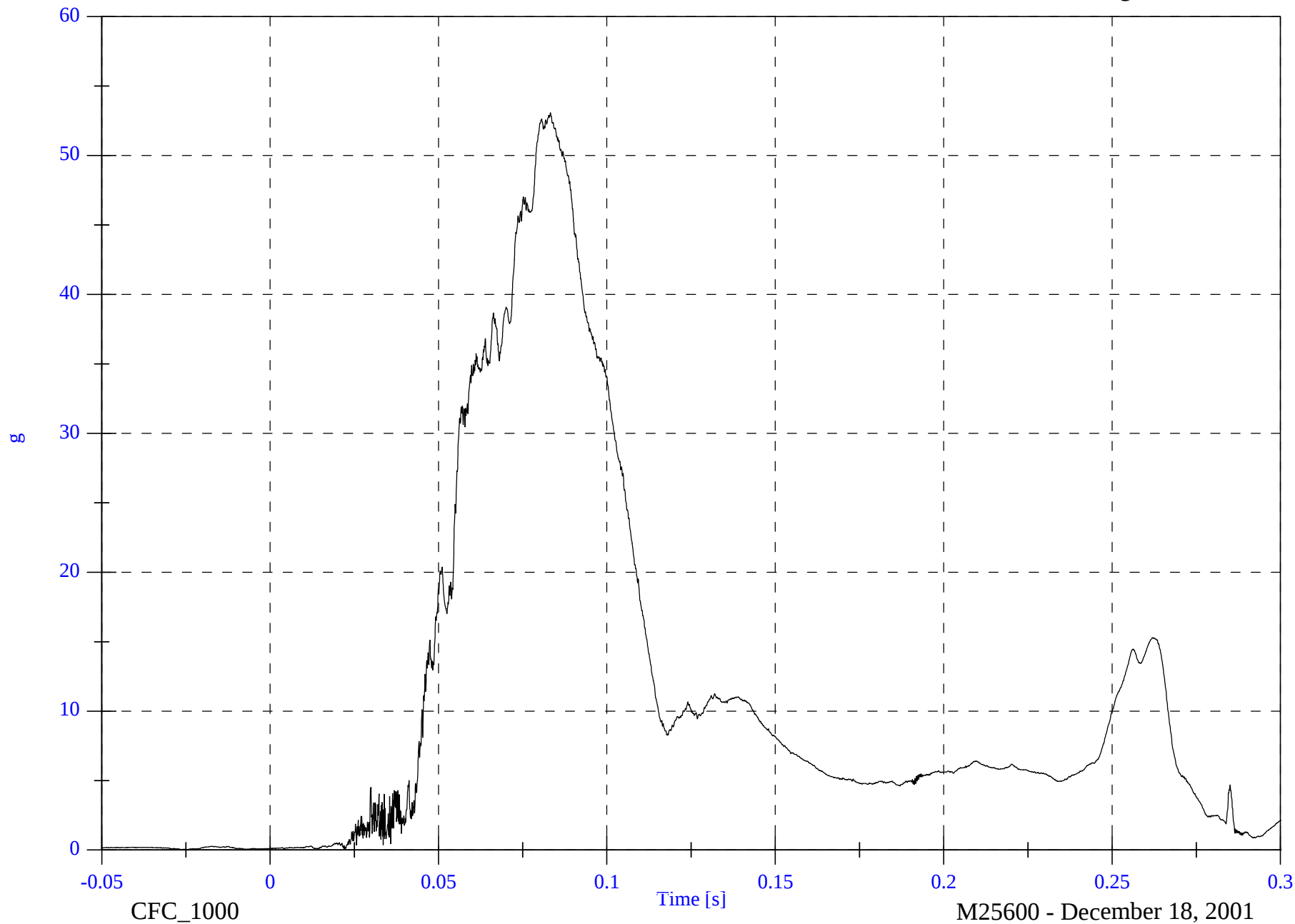
P2 Head CG Red Resultant

Max: 53.1 [g] at 0.083 [s]

Min: 0.0 [g] at -0.026 [s]

B-75

8642-NCAP-01

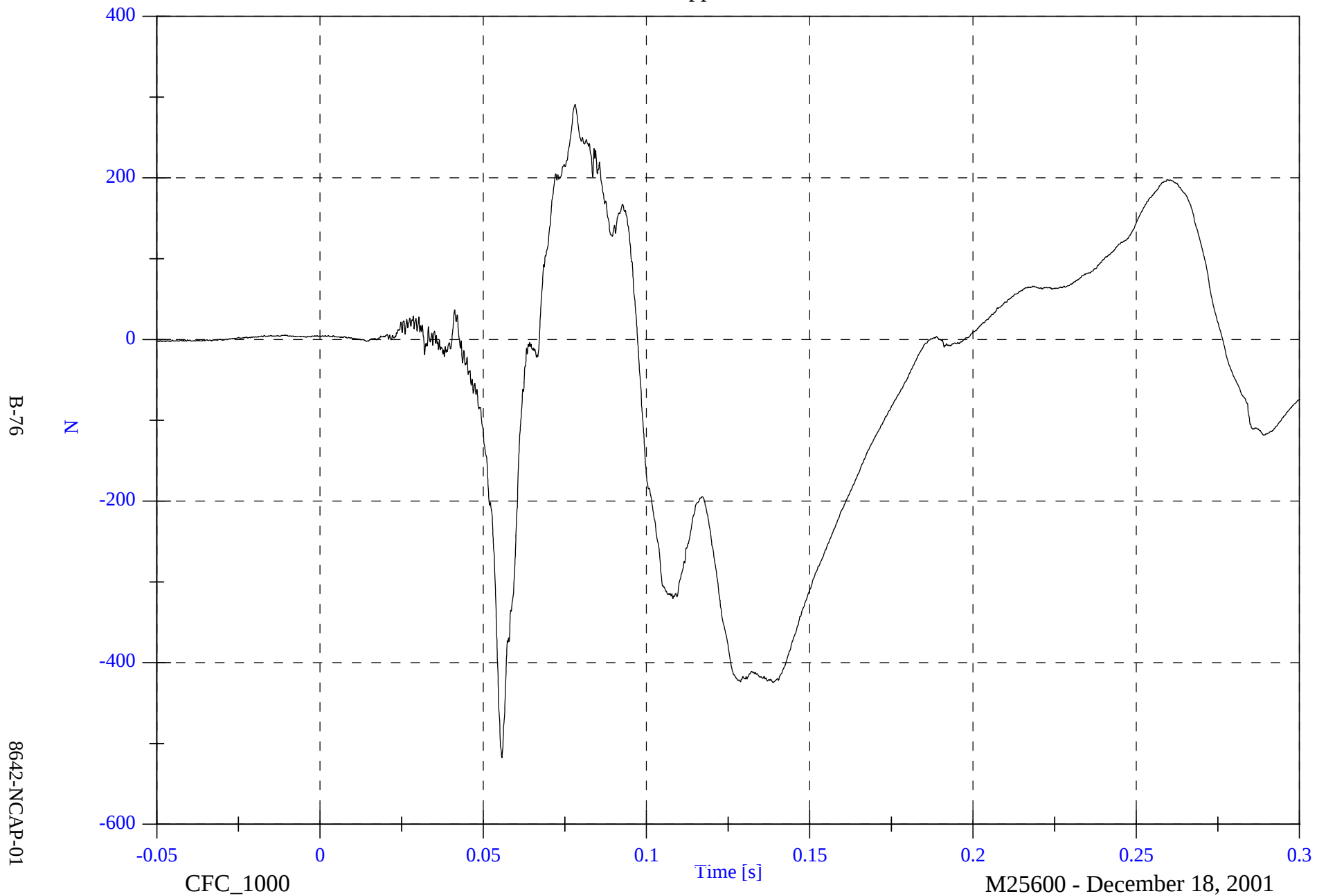


2002 NCAP Test 1-2002 Mitsubishi Eclipse

P2 Upper Neck Fx

Max: 290.8 [N] at 0.078 [s]

Min: -517.9 [N] at 0.056 [s]



2002 NCAP Test 1-2002 Mitsubishi Eclipse

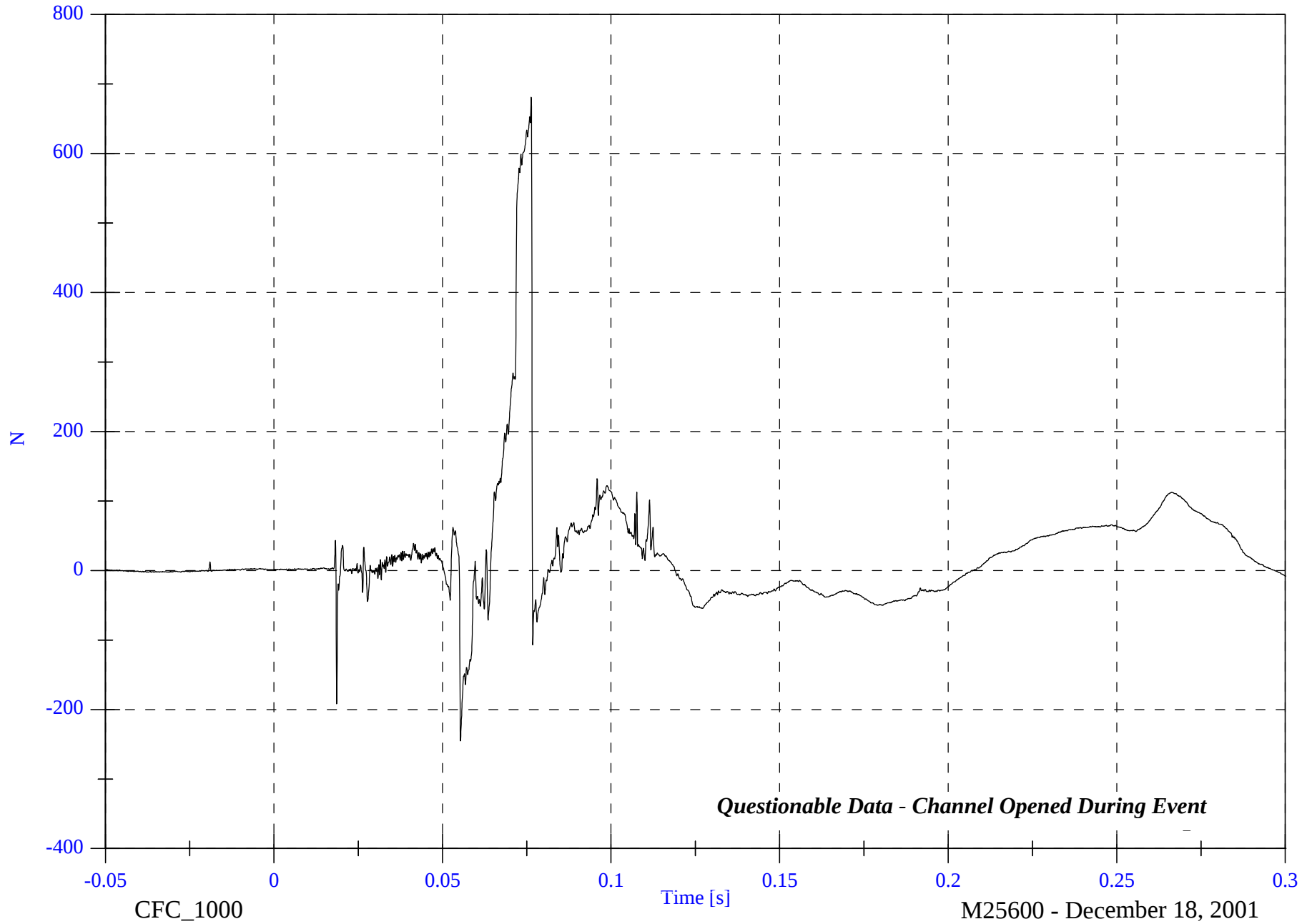
P2 Upper Neck Fy

Max: 681.2 [N] at 0.076 [s]

Min: -245.4 [N] at 0.055 [s]

B-77

8642-NCAP-01

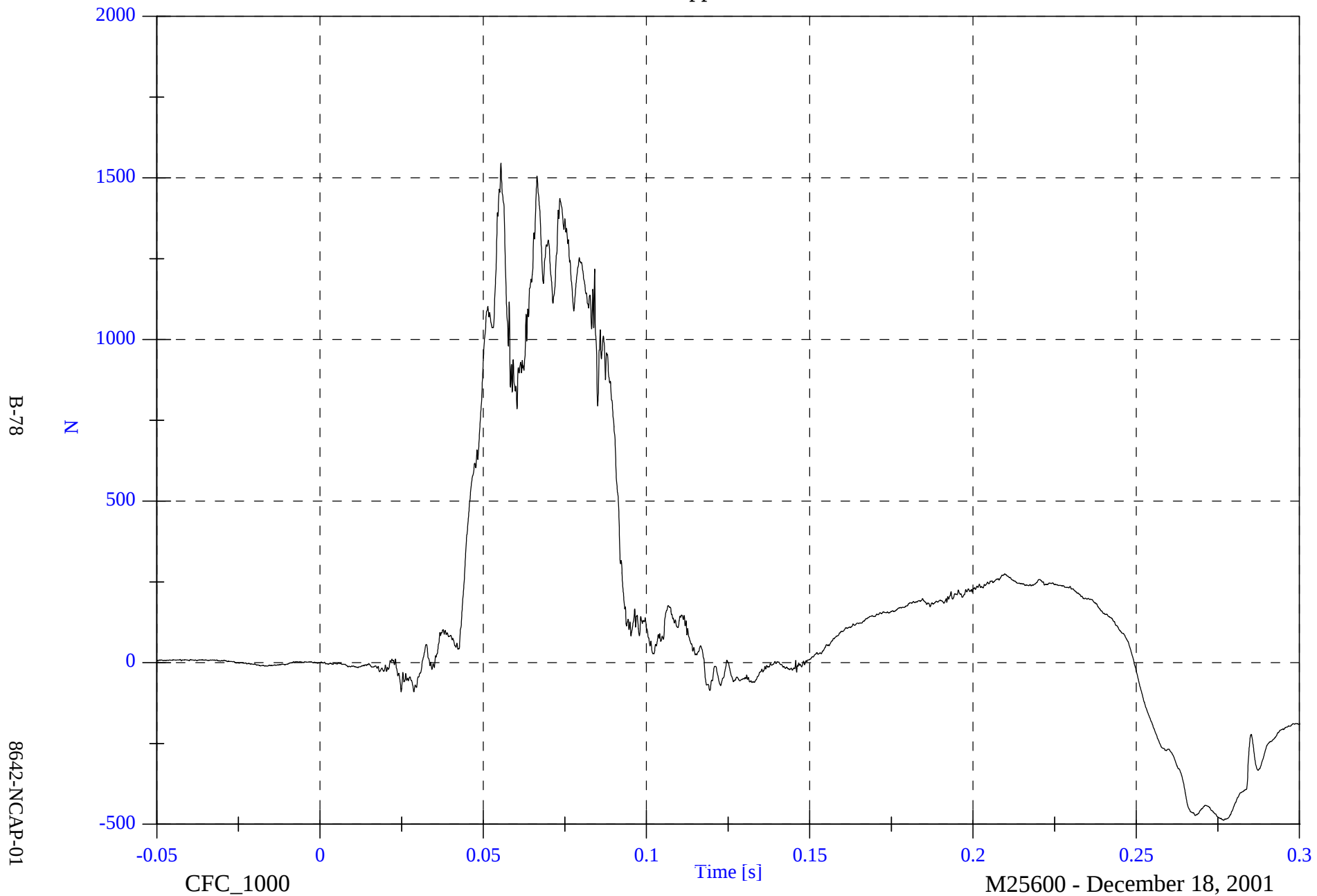


2002 NCAP Test 1-2002 Mitsubishi Eclipse

P2 Upper Neck Fz

Max: 1544.8 [N] at 0.055 [s]

Min: -488.0 [N] at 0.277 [s]



2002 NCAP Test 1-2002 Mitsubishi Eclipse

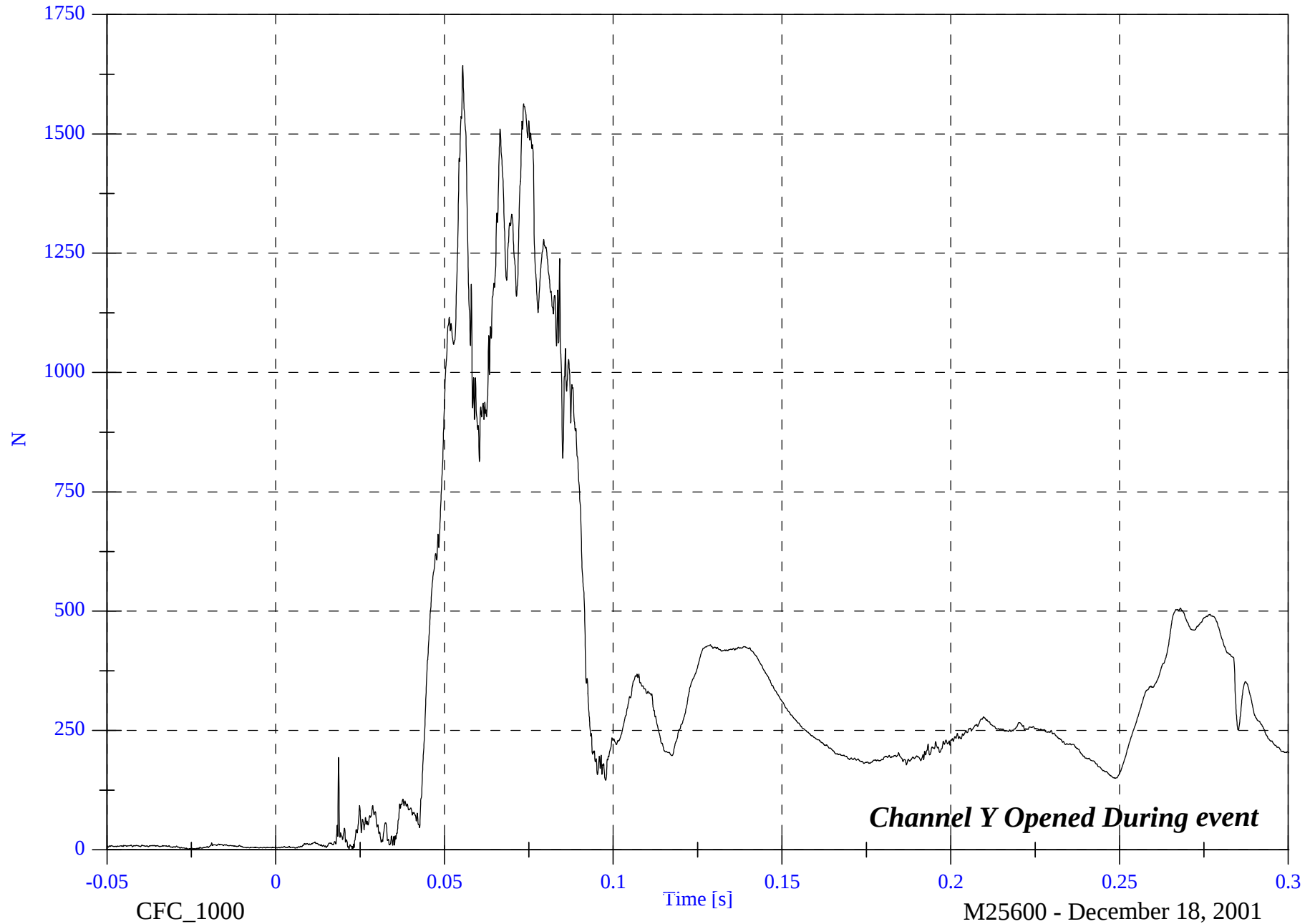
P2 Upper Neck F Resultant

Max: 1643.1 [N] at 0.055 [s]

Min: 1.2 [N] at 0.022 [s]

B-79

8642-NCAP-01

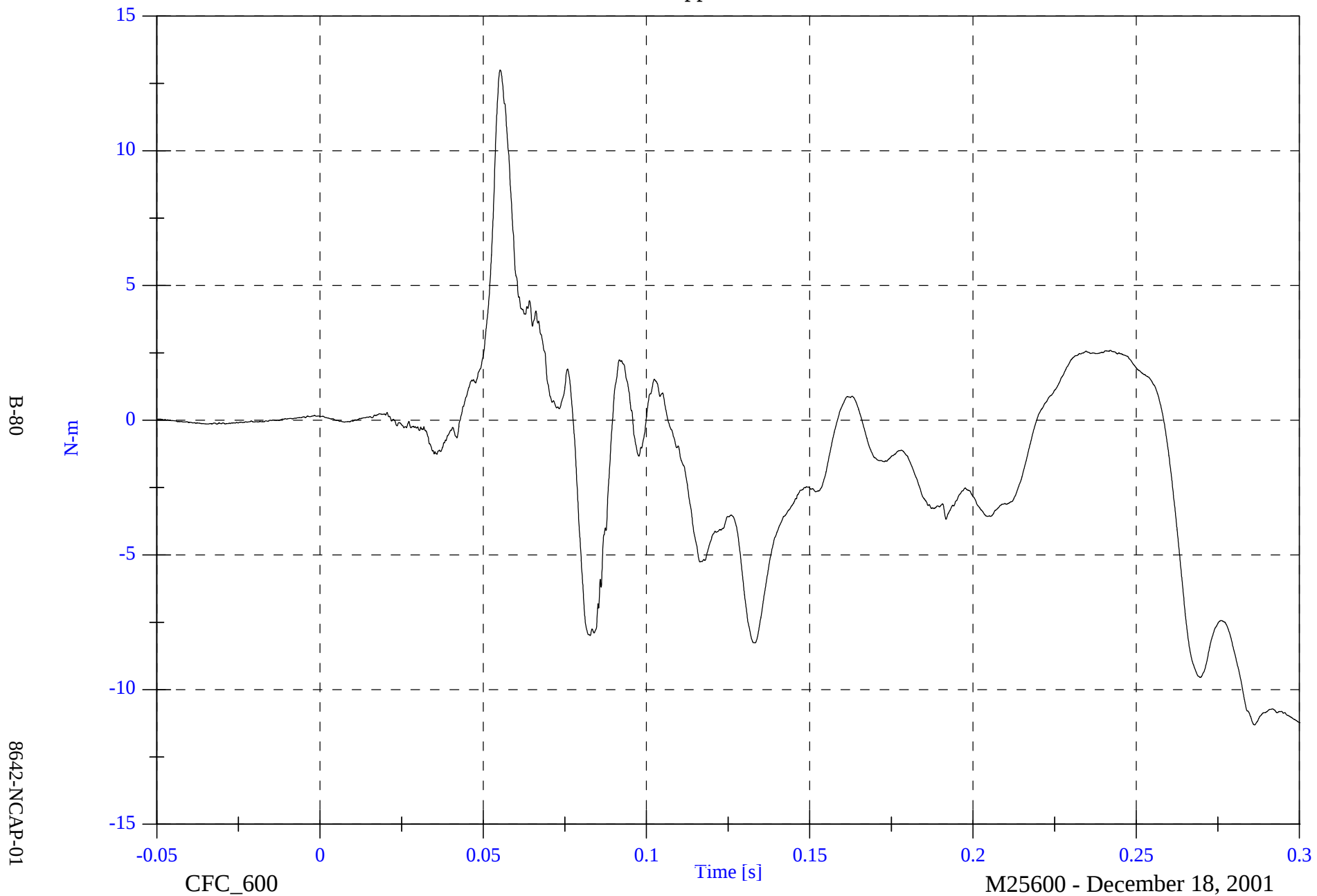


2002 NCAP Test 1-2002 Mitsubishi Eclipse

P2 Upper Neck Mx

Max: 13.0 [N-m] at 0.055 [s]

Min: -11.3 [N-m] at 0.286 [s]



2002 NCAP Test 1-2002 Mitsubishi Eclipse

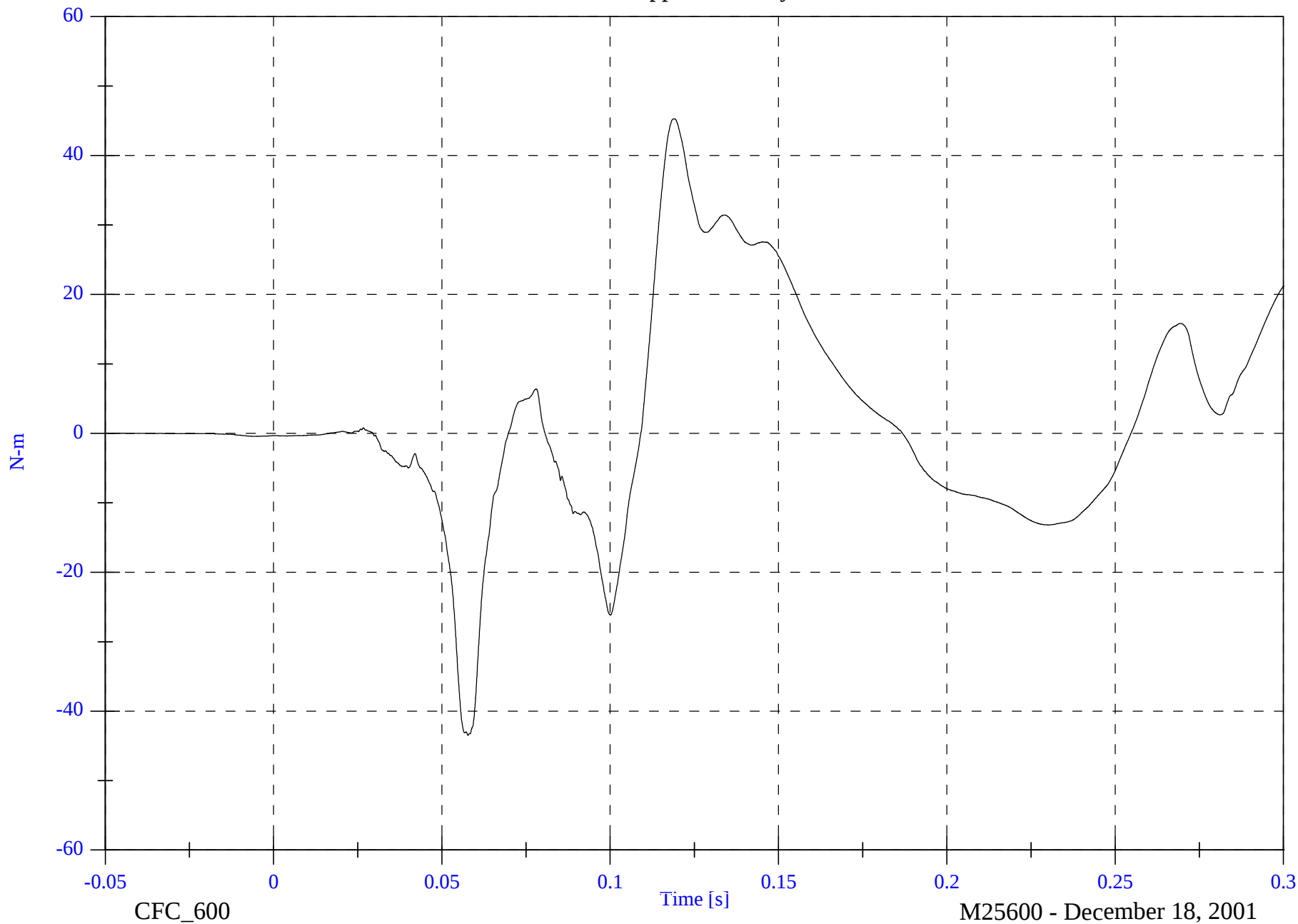
P2 Upper Neck My

Max: 45.3 [N-m] at 0.119 [s]

Min: -43.5 [N-m] at 0.058 [s]

B-81

8642-NCAP-01



2002 NCAP Test 1-2002 Mitsubishi Eclipse

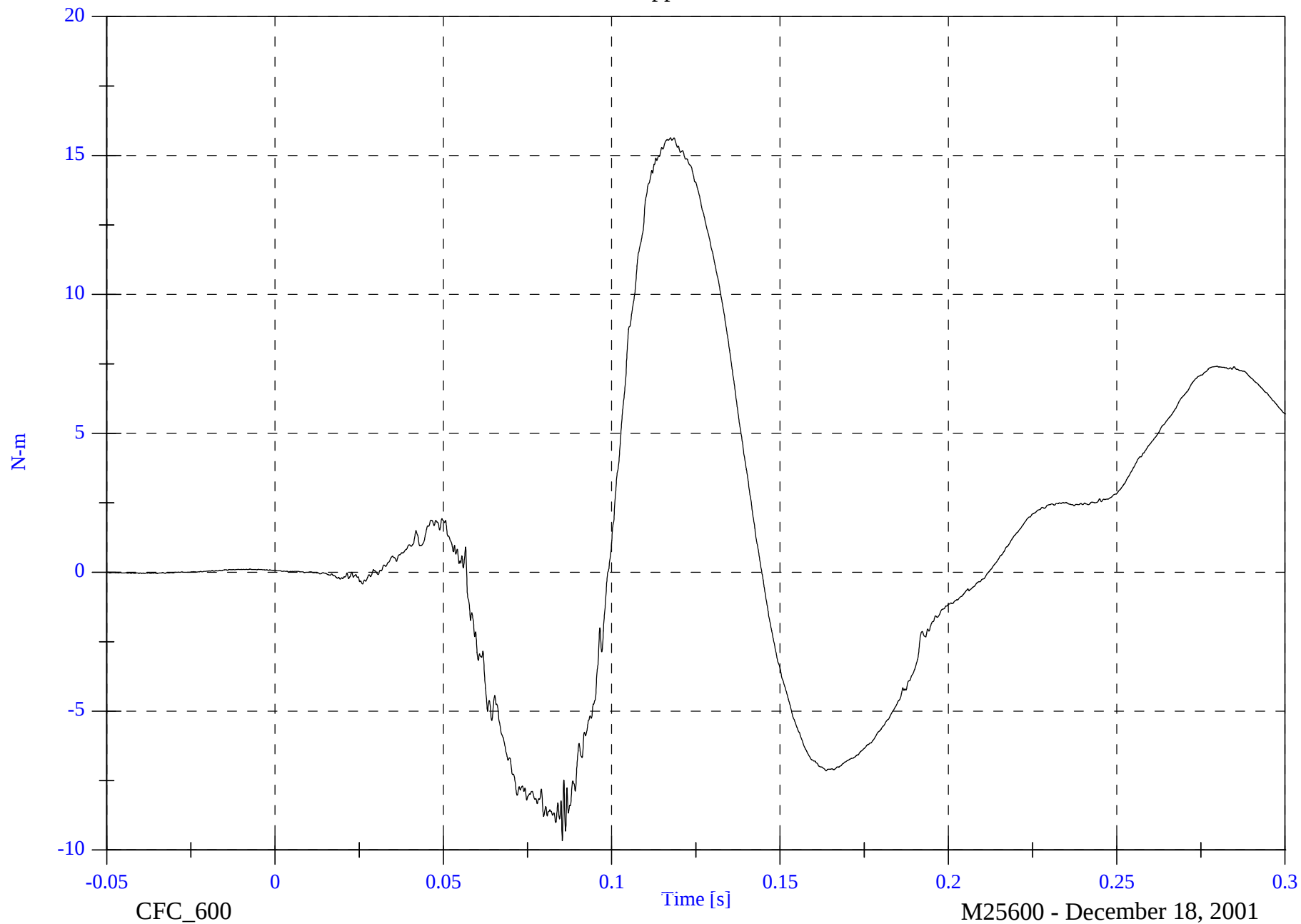
P2 Upper Neck Mz

Max: 15.6 [N-m] at 0.117 [s]

Min: -9.7 [N-m] at 0.085 [s]

B-82

8642-NCAP-01

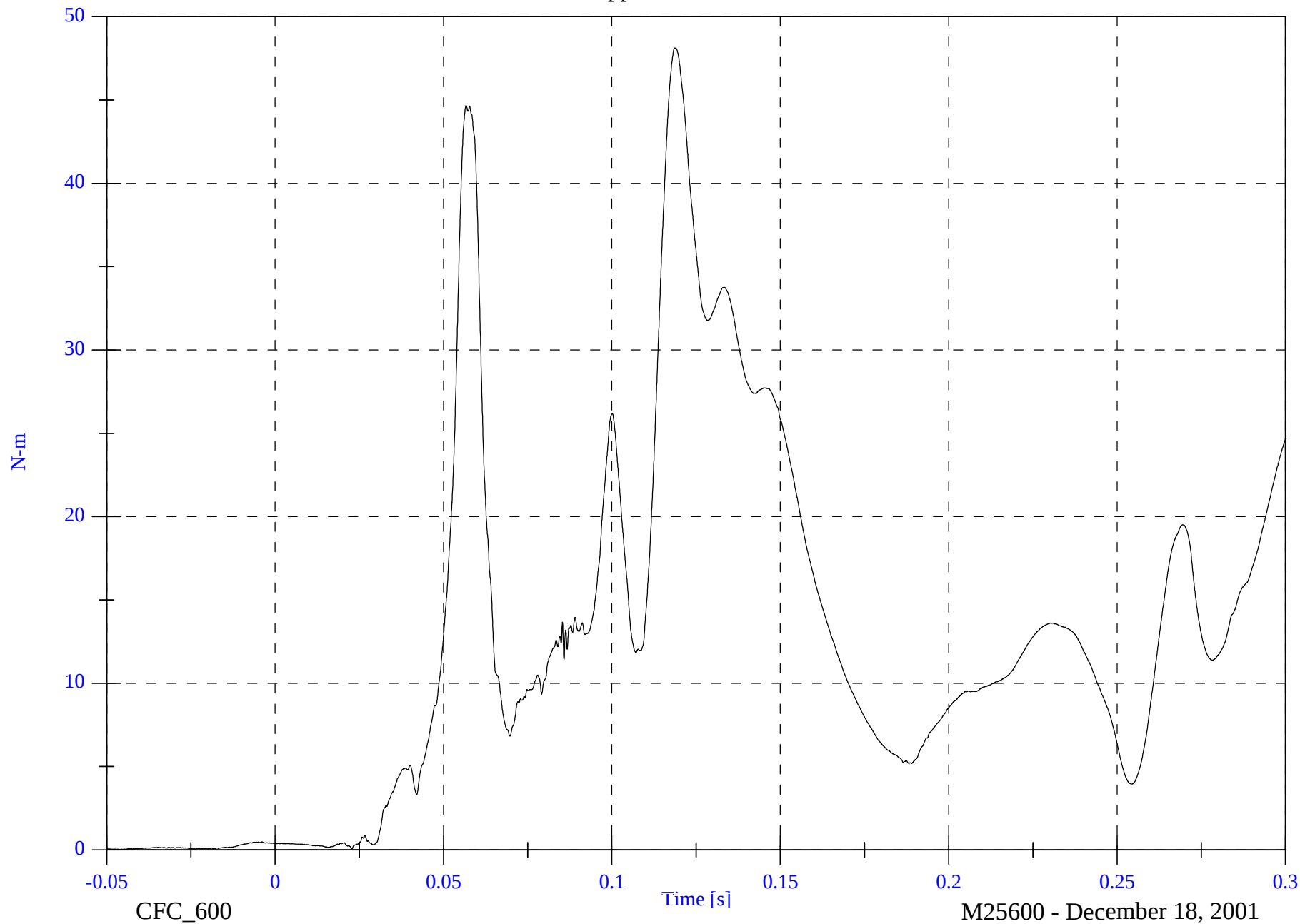


2002 NCAP Test 1-2002 Mitsubishi Eclipse

P2 Upper Neck M Resultant

Max: 48.1 [N-m] at 0.119 [s]

Min: 0.0 [N-m] at -0.046 [s]



B-83

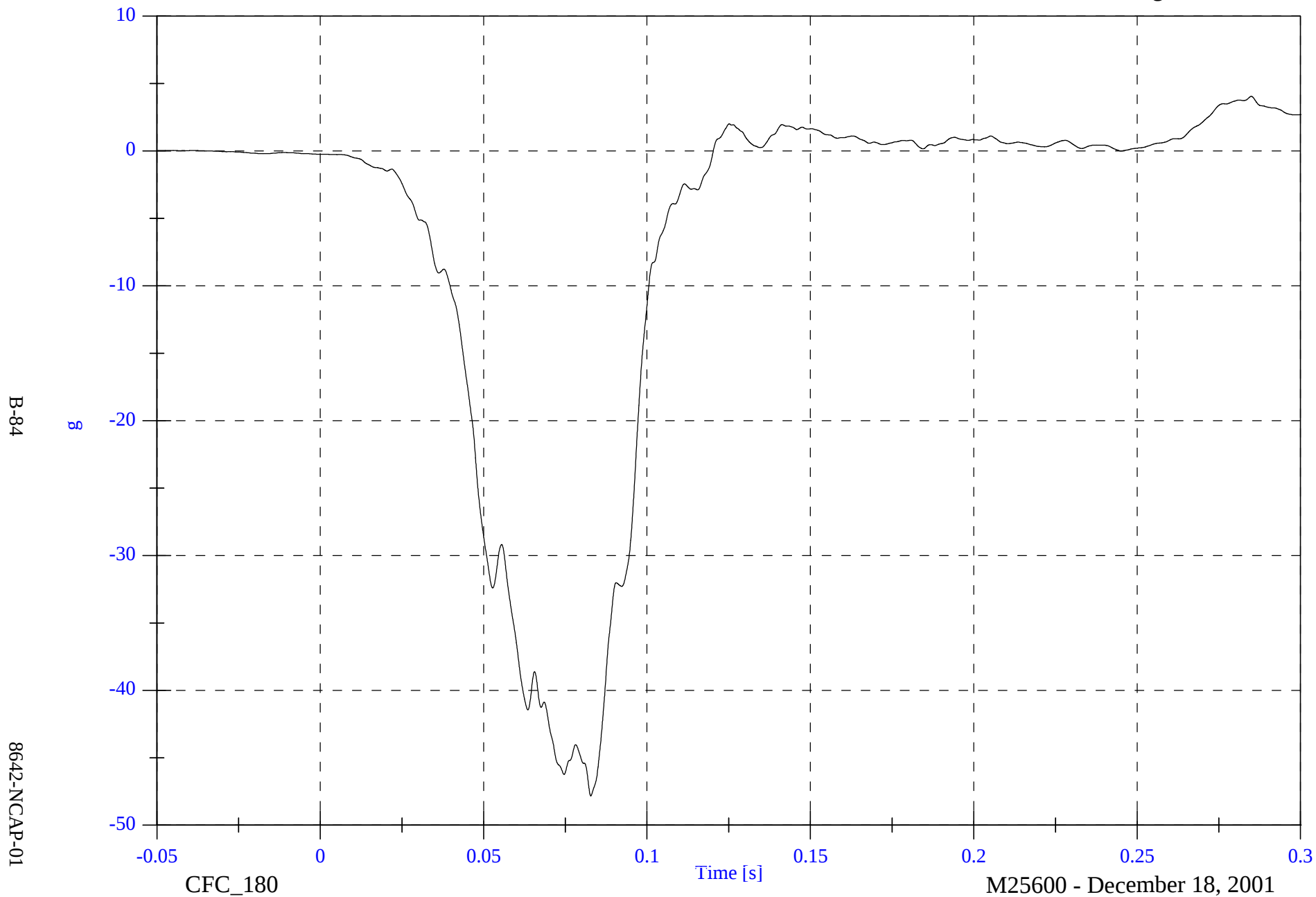
8642-NCAP-01

2002 NCAP Test 1-2002 Mitsubishi Eclipse

Max: 4.1 [g] at 0.285 [s]

Min: -47.8 [g] at 0.083 [s]

P2 Chest x

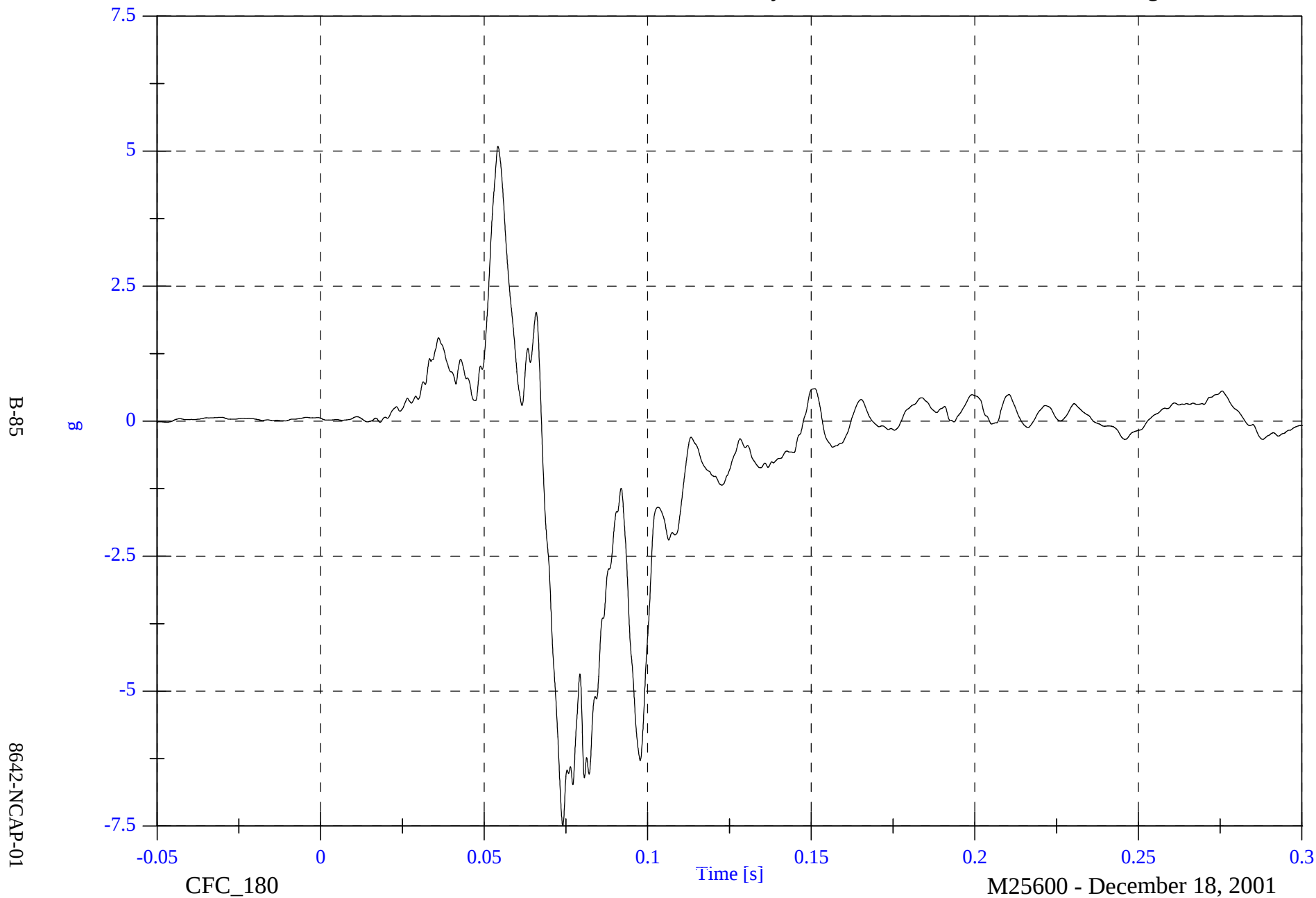


2002 NCAP Test 1-2002 Mitsubishi Eclipse

P2 Chest y

Max: 5.1 [g] at 0.054 [s]

Min: -7.5 [g] at 0.074 [s]



2002 NCAP Test 1-2002 Mitsubishi Eclipse

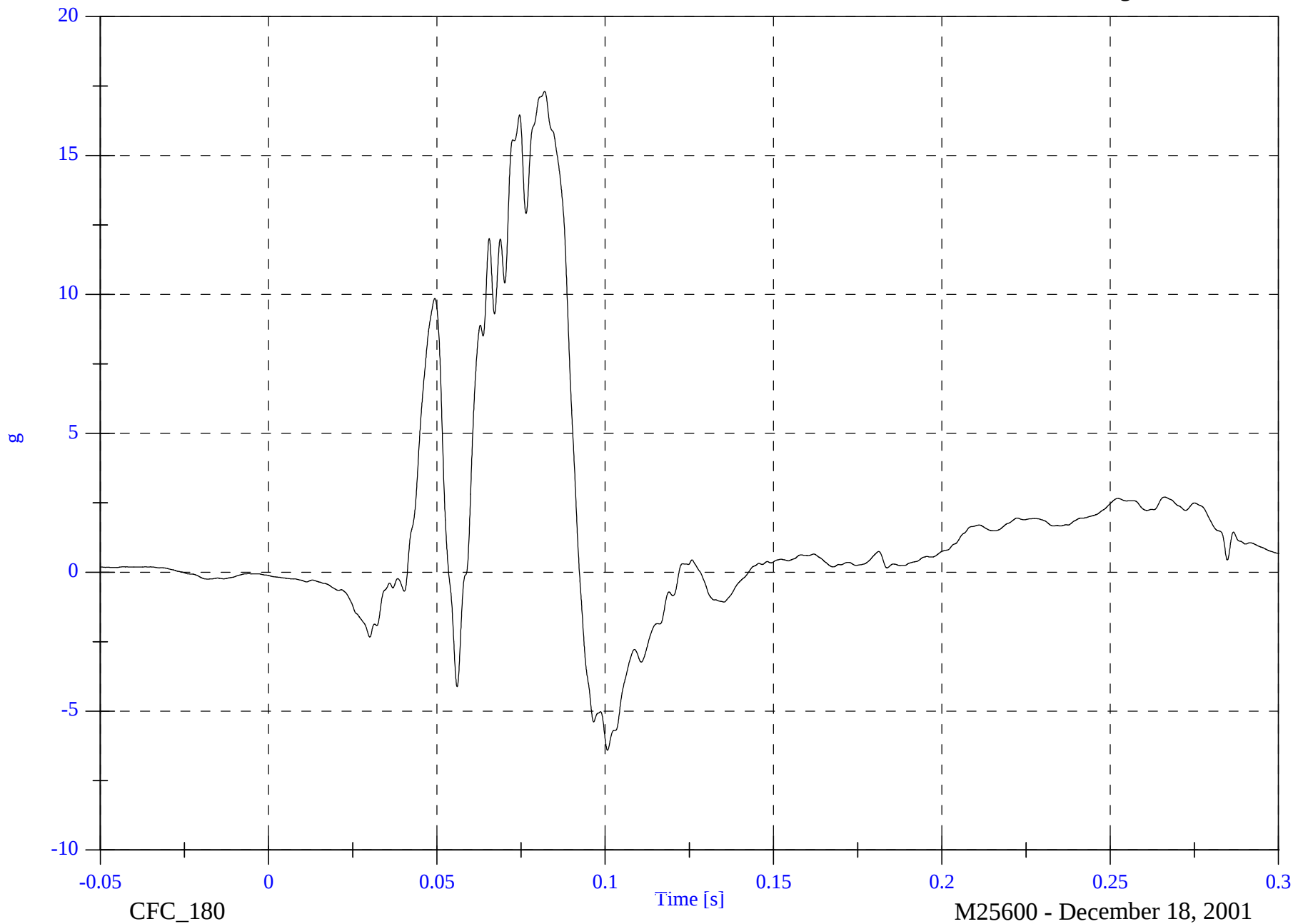
P2 Chest z

Max: 17.3 [g] at 0.082 [s]

Min: -6.4 [g] at 0.101 [s]

B-86

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2002 NCAP Test 1-2002 Mitsubishi Eclipse

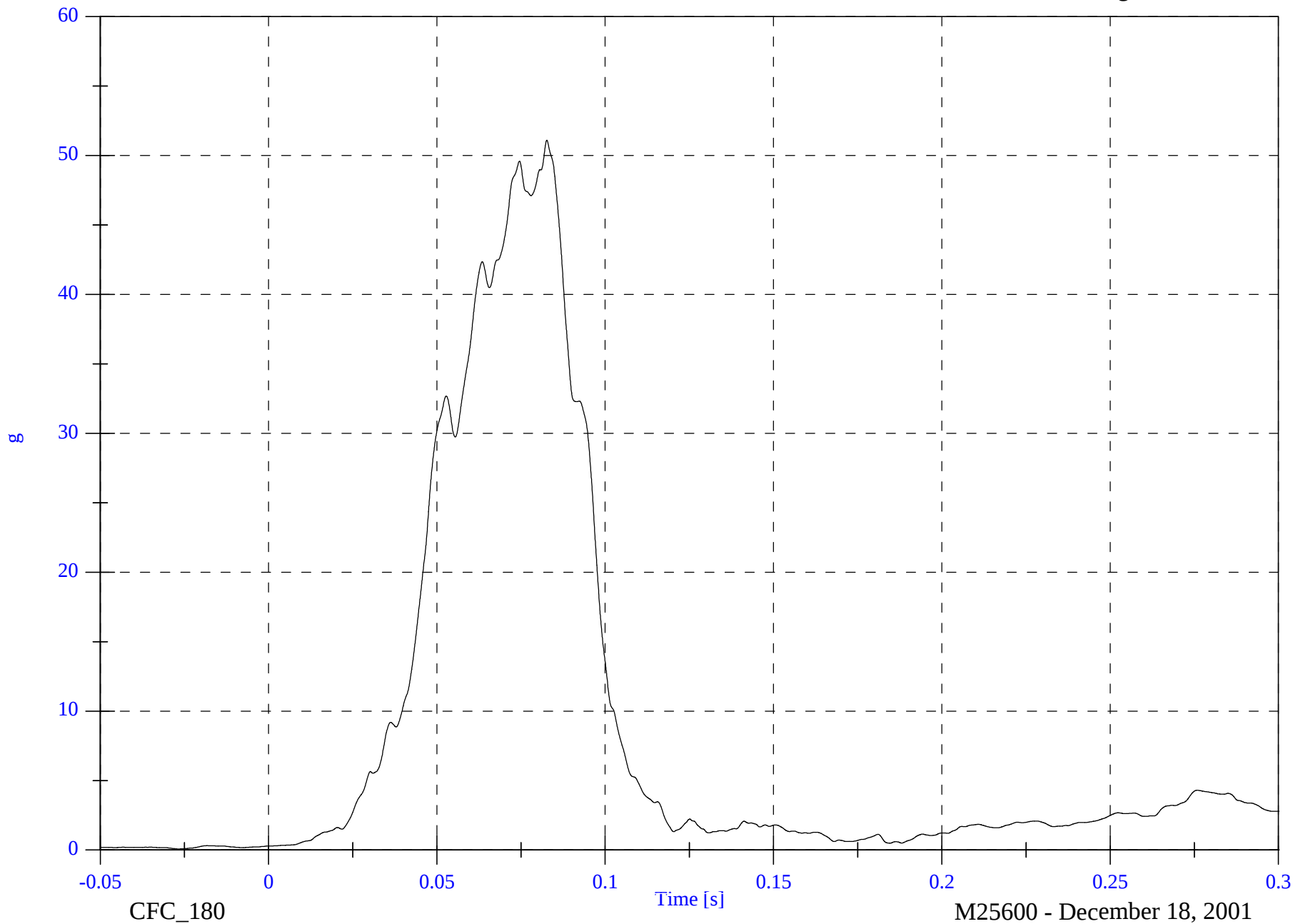
P2 Chest Resultant

Max: 51.1 [g] at 0.083 [s]

Min: 0.1 [g] at -0.027 [s]

B-87

8642-NCAP-01

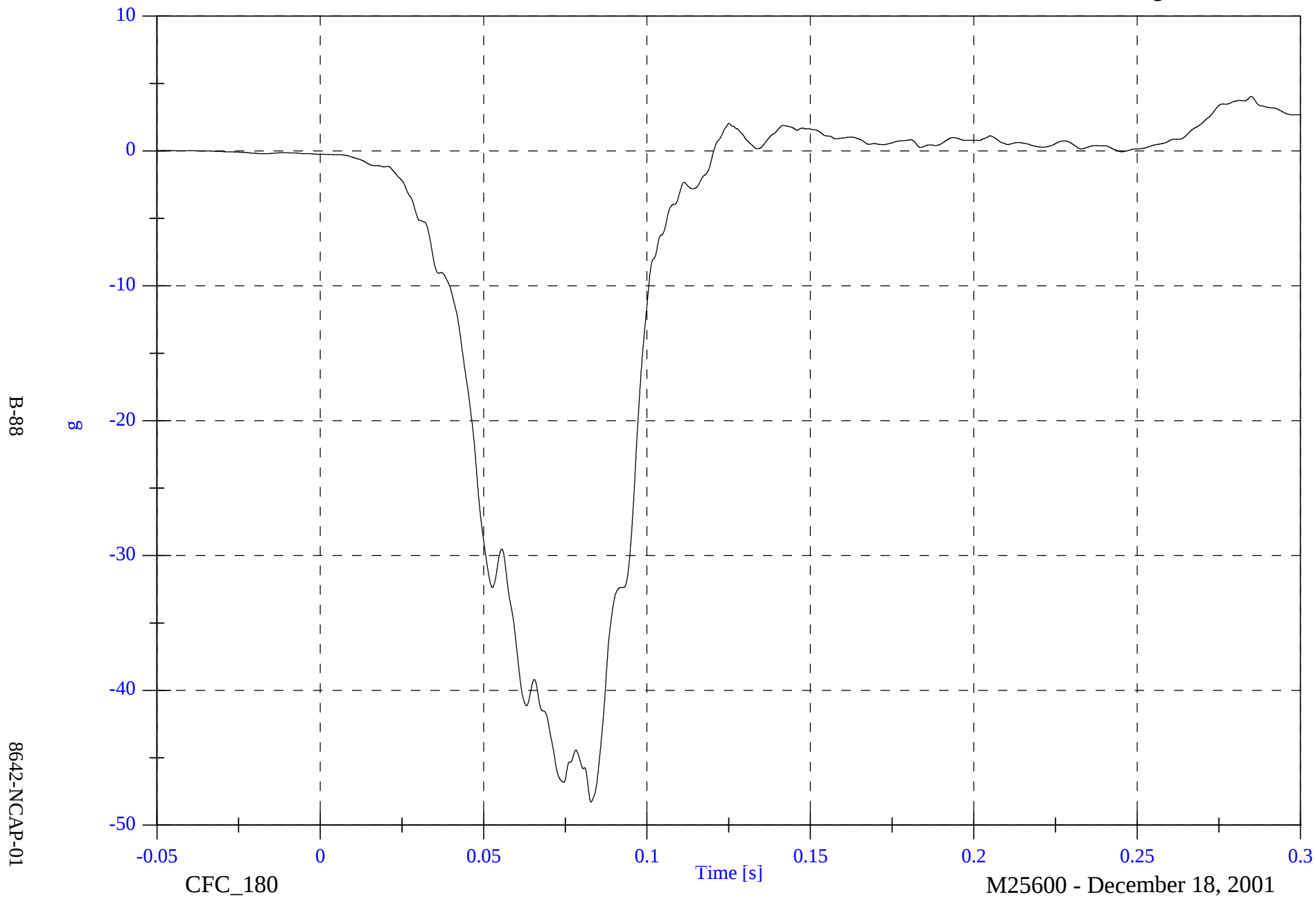


2002 NCAP Test 1-2002 Mitsubishi Eclipse

P2 Chest Red x

Max: 4.0 [g] at 0.285 [s]

Min: -48.3 [g] at 0.083 [s]

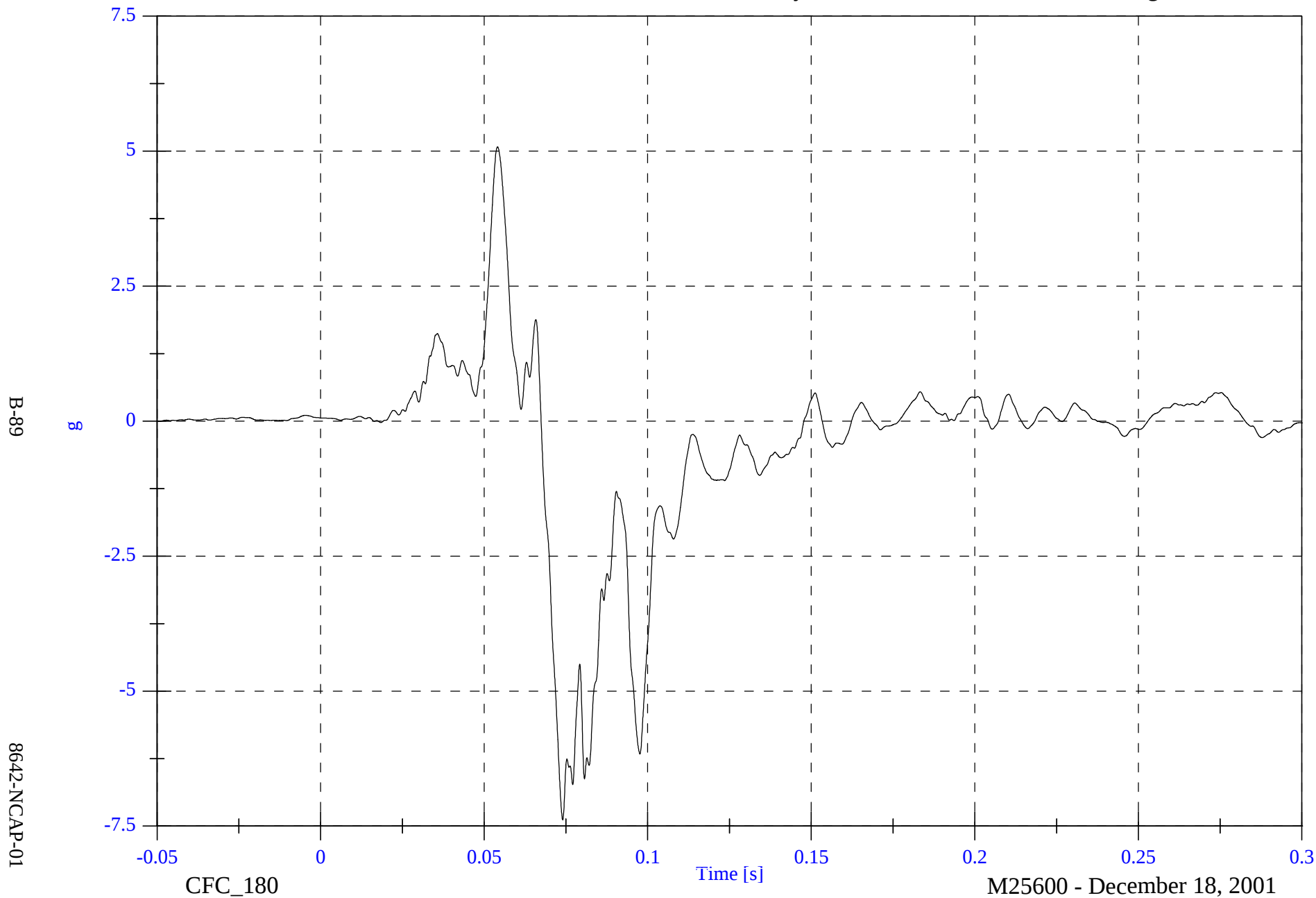


2002 NCAP Test 1-2002 Mitsubishi Eclipse

P2 Chest Red y

Max: 5.1 [g] at 0.054 [s]

Min: -7.4 [g] at 0.074 [s]

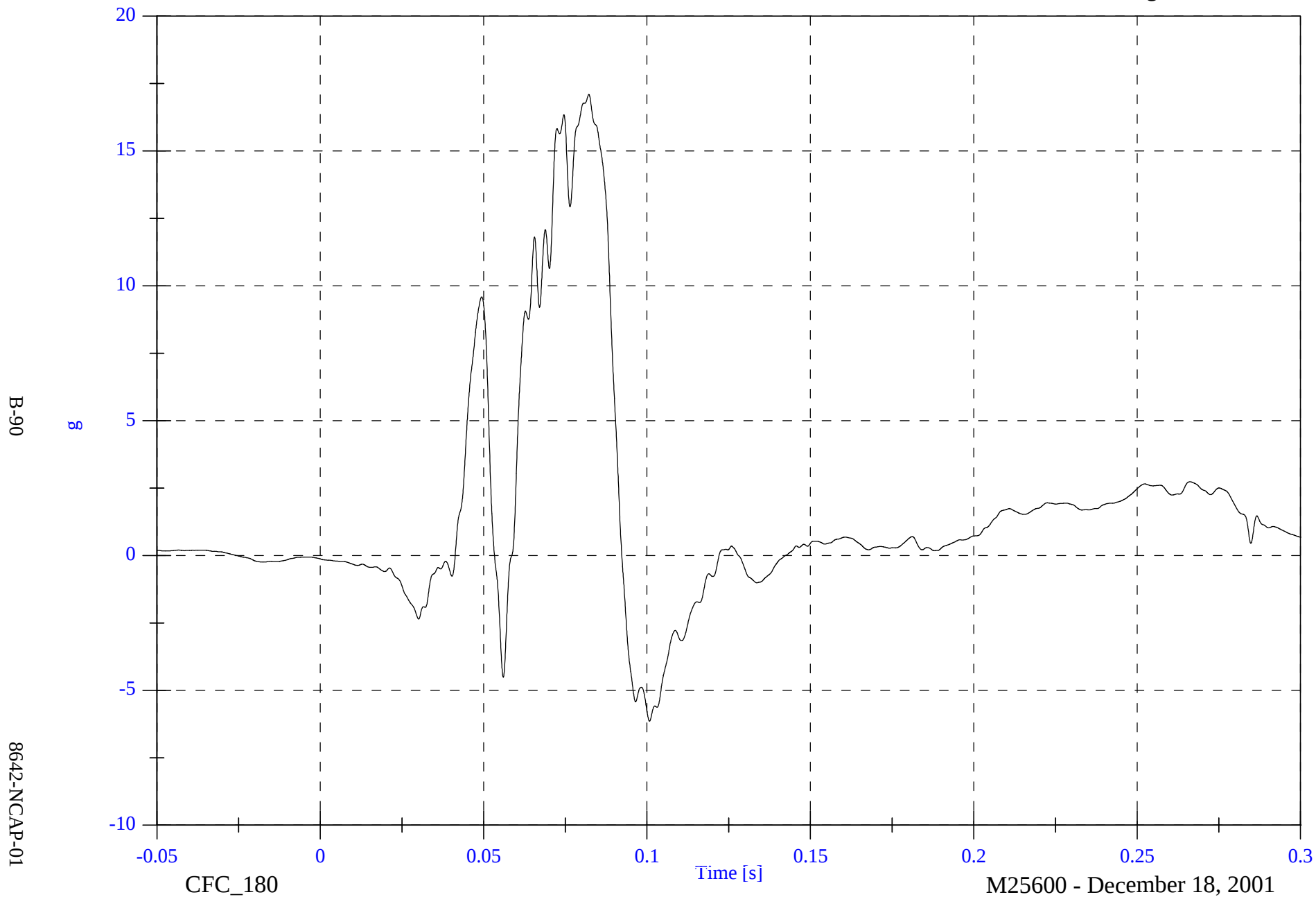


2002 NCAP Test 1-2002 Mitsubishi Eclipse

P2 Chest Red z

Max: 17.1 [g] at 0.082 [s]

Min: -6.1 [g] at 0.101 [s]



2002 NCAP Test 1-2002 Mitsubishi Eclipse

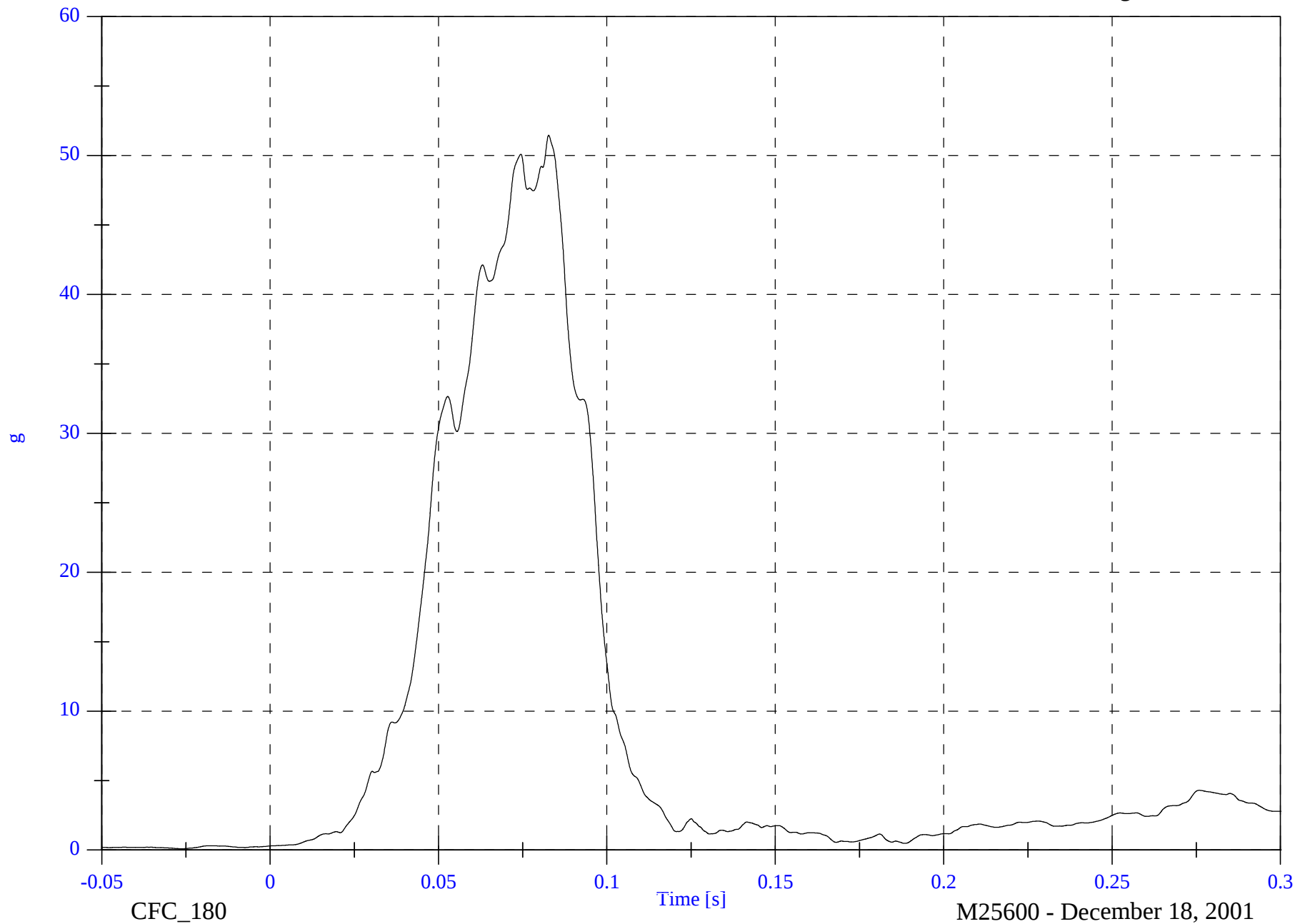
P2 Chest Red Resultant

Max: 51.5 [g] at 0.083 [s]

Min: 0.1 [g] at -0.026 [s]

B-91

8642-NCAP-01



2002 NCAP Test 1-2002 Mitsubishi Eclipse

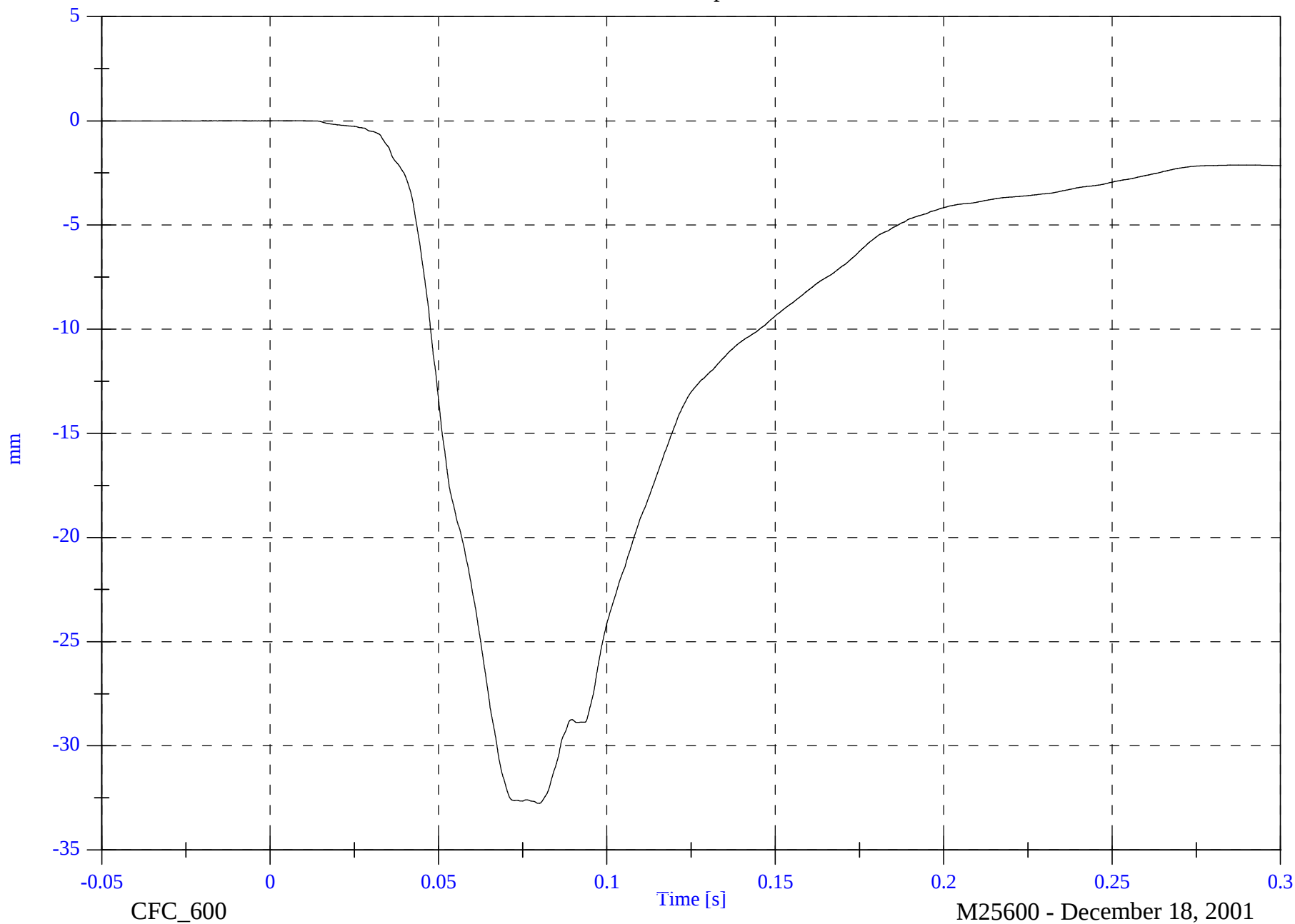
P2 Chest Compression x

Max: 0.0 [mm] at 0.005 [s]

Min: -32.8 [mm] at 0.080 [s]

B-92

8642-NCAP-01



2002 NCAP Test 1-2002 Mitsubishi Eclipse

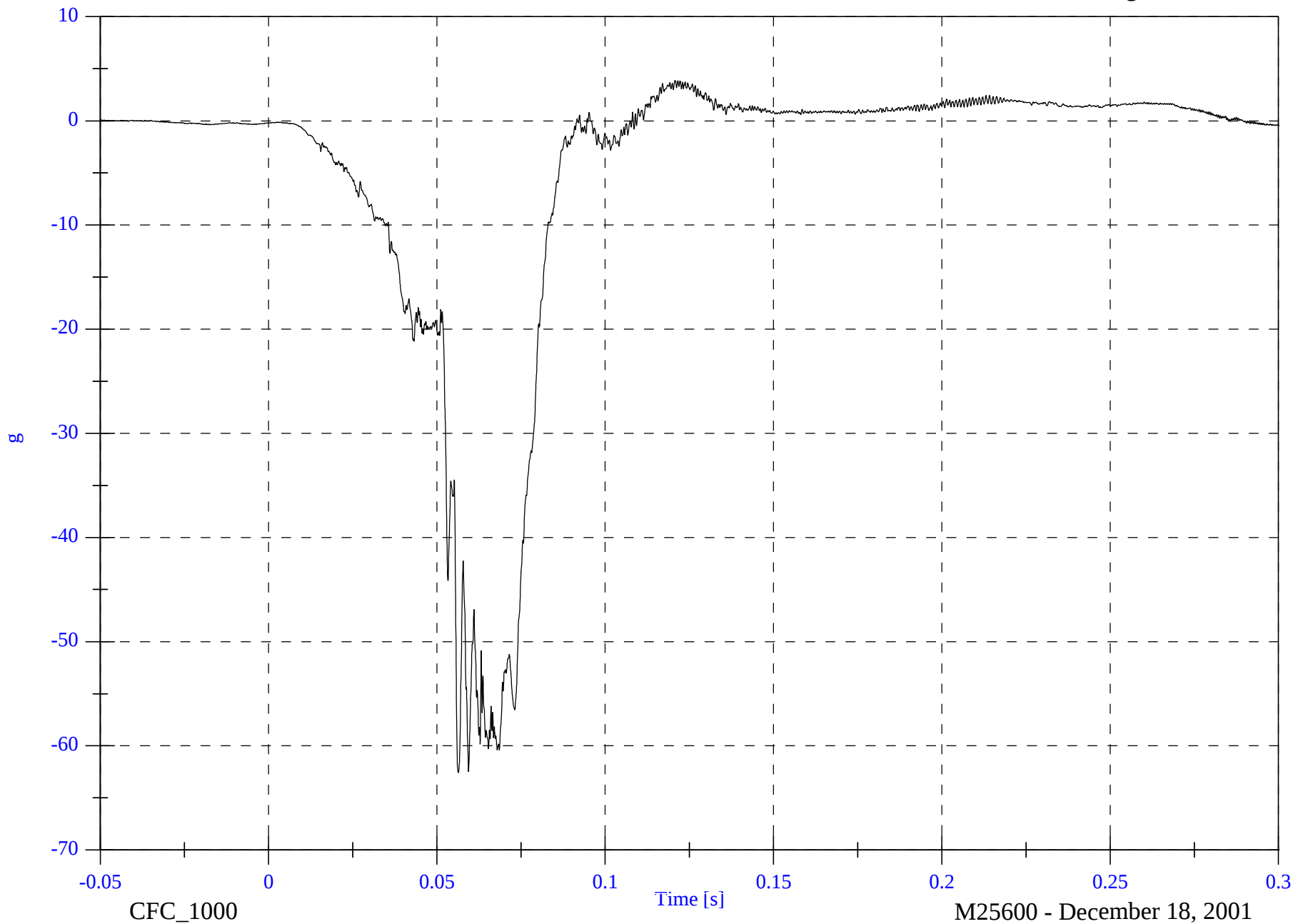
P2 Pelvic x

Max: 3.9 [g] at 0.121 [s]

Min: -62.6 [g] at 0.056 [s]

B-93

8642-NCAP-01



2002 NCAP Test 1-2002 Mitsubishi Eclipse

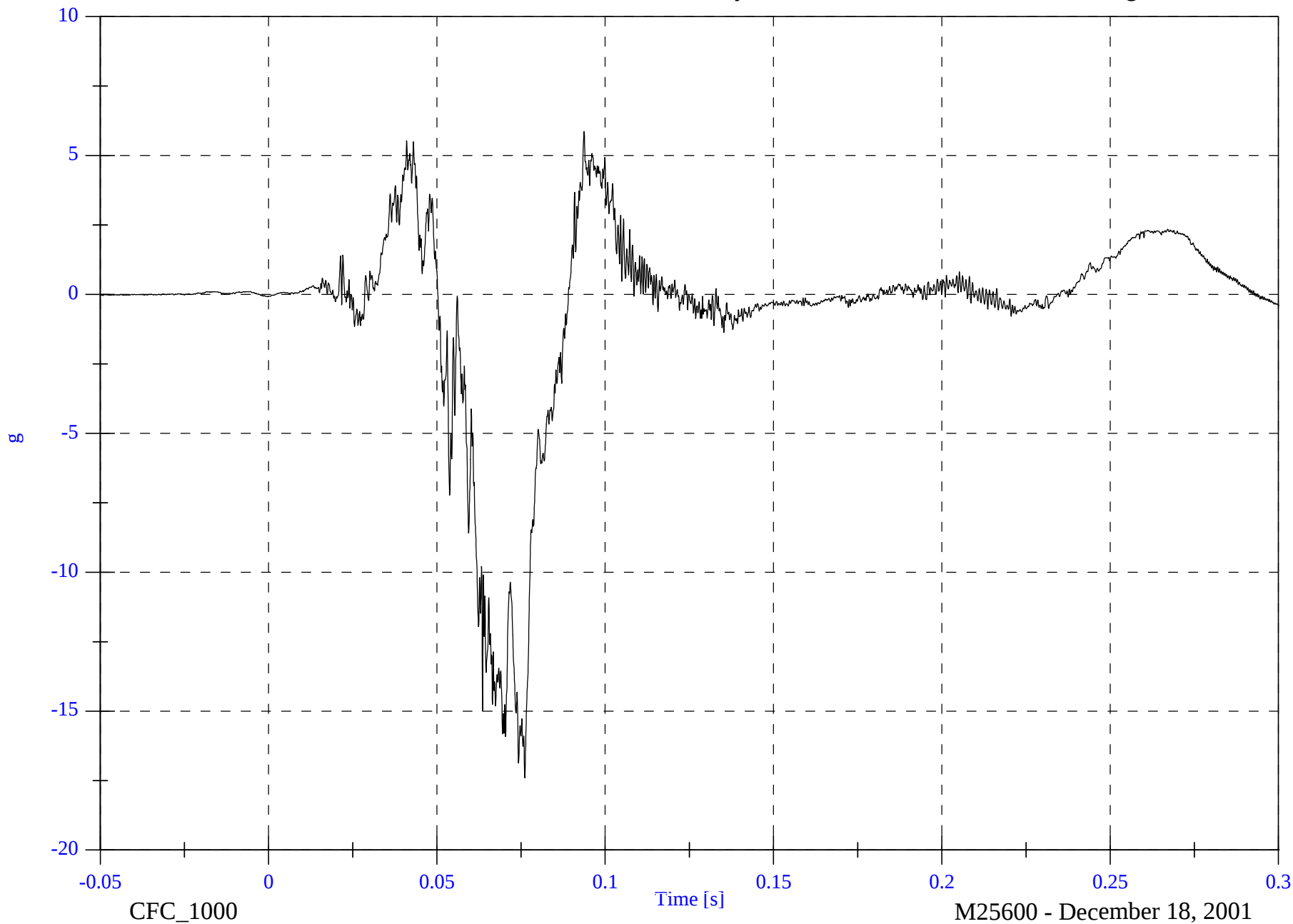
P2 Pelvic y

Max: 5.9 [g] at 0.094 [s]

Min: -17.4 [g] at 0.076 [s]

B-94

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2002 NCAP Test 1-2002 Mitsubishi Eclipse

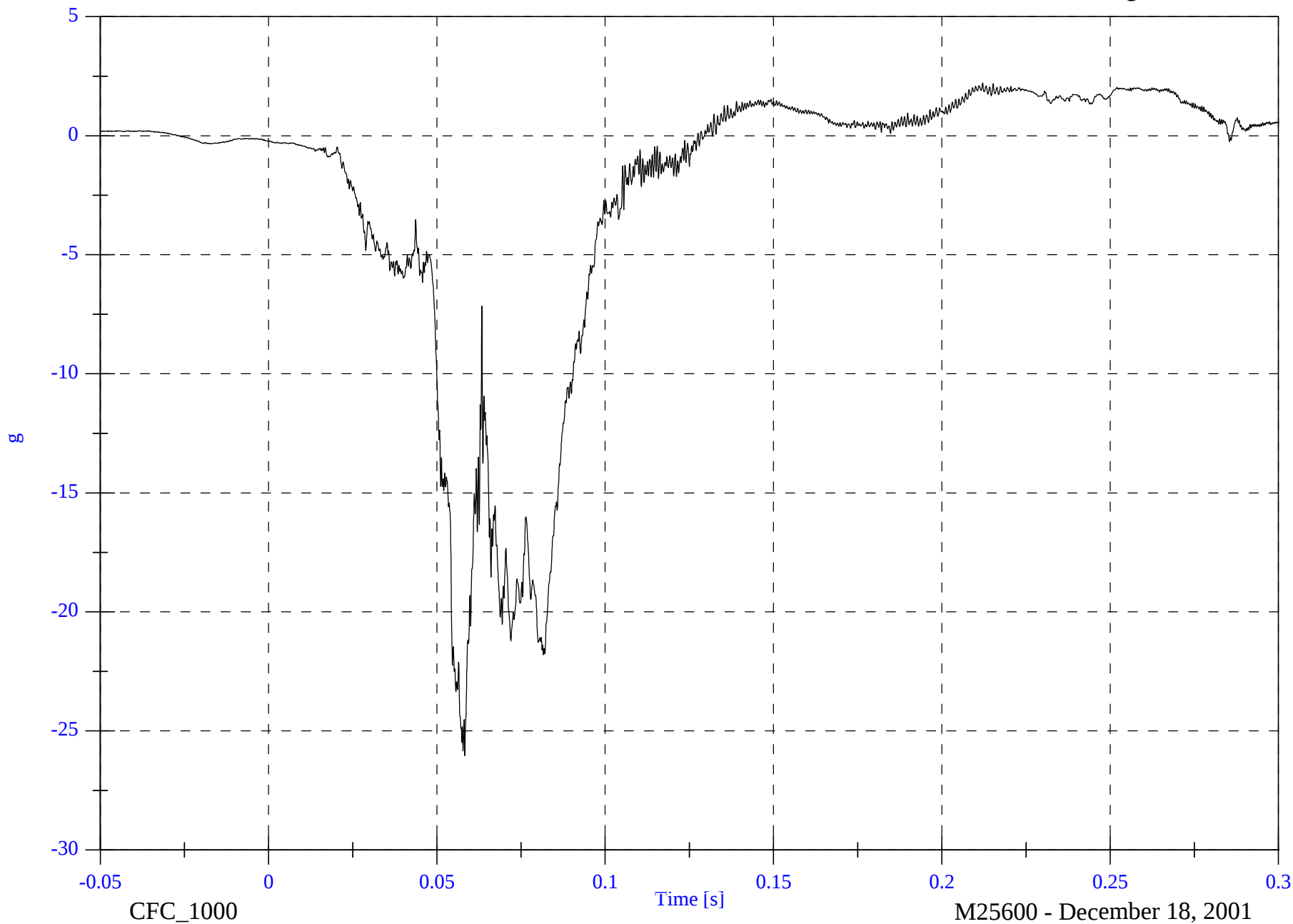
P2 Pelvic z

Max: 2.2 [g] at 0.212 [s]

Min: -26.0 [g] at 0.058 [s]

B-95

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2002 NCAP Test 1-2002 Mitsubishi Eclipse

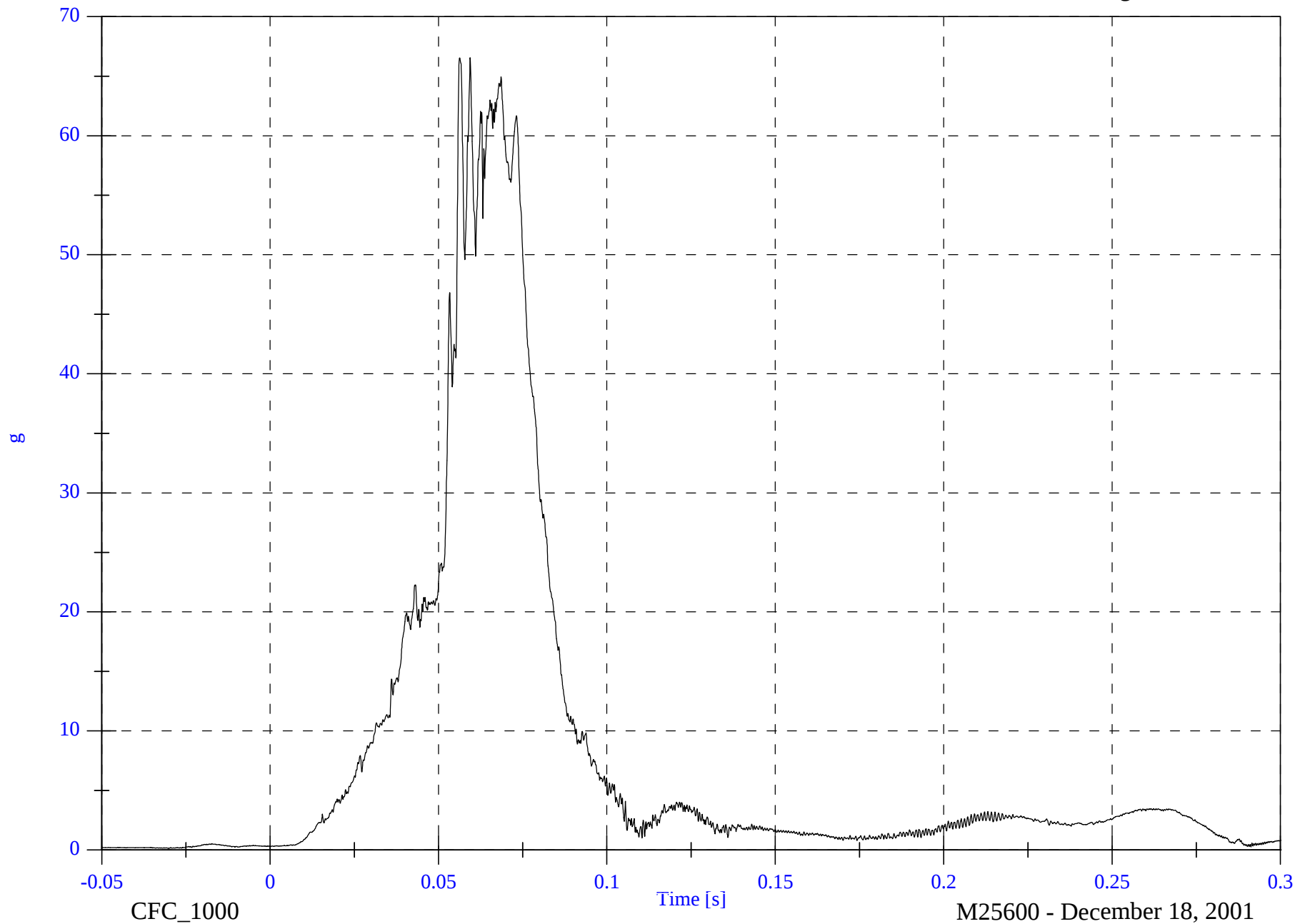
P2 Pelvic Resultant

Max: 66.6 [g] at 0.059 [s]

Min: 0.1 [g] at -0.030 [s]

B-96

8642-NCAP-01

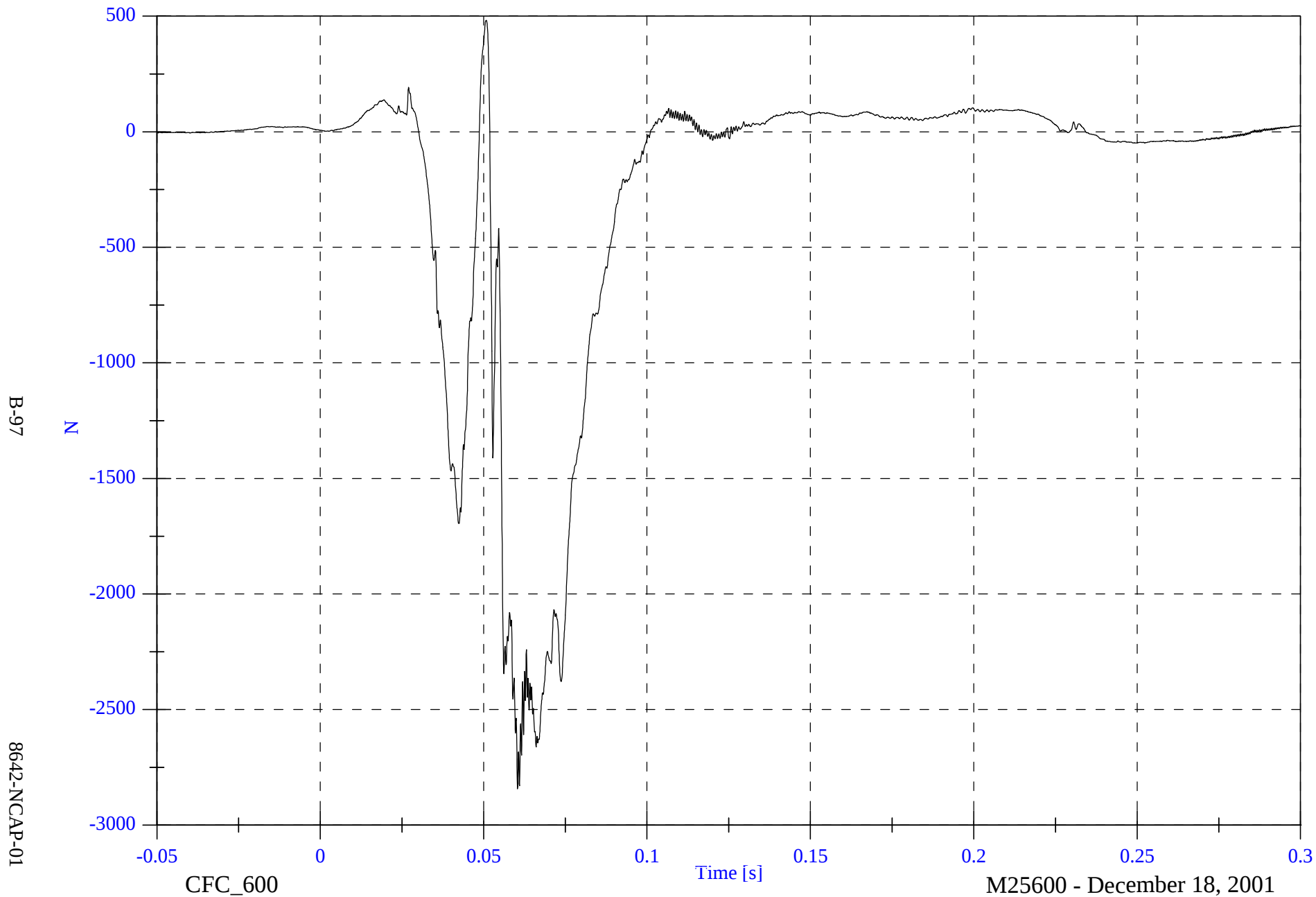


2002 NCAP Test 1-2002 Mitsubishi Eclipse

P2 Left Femur z

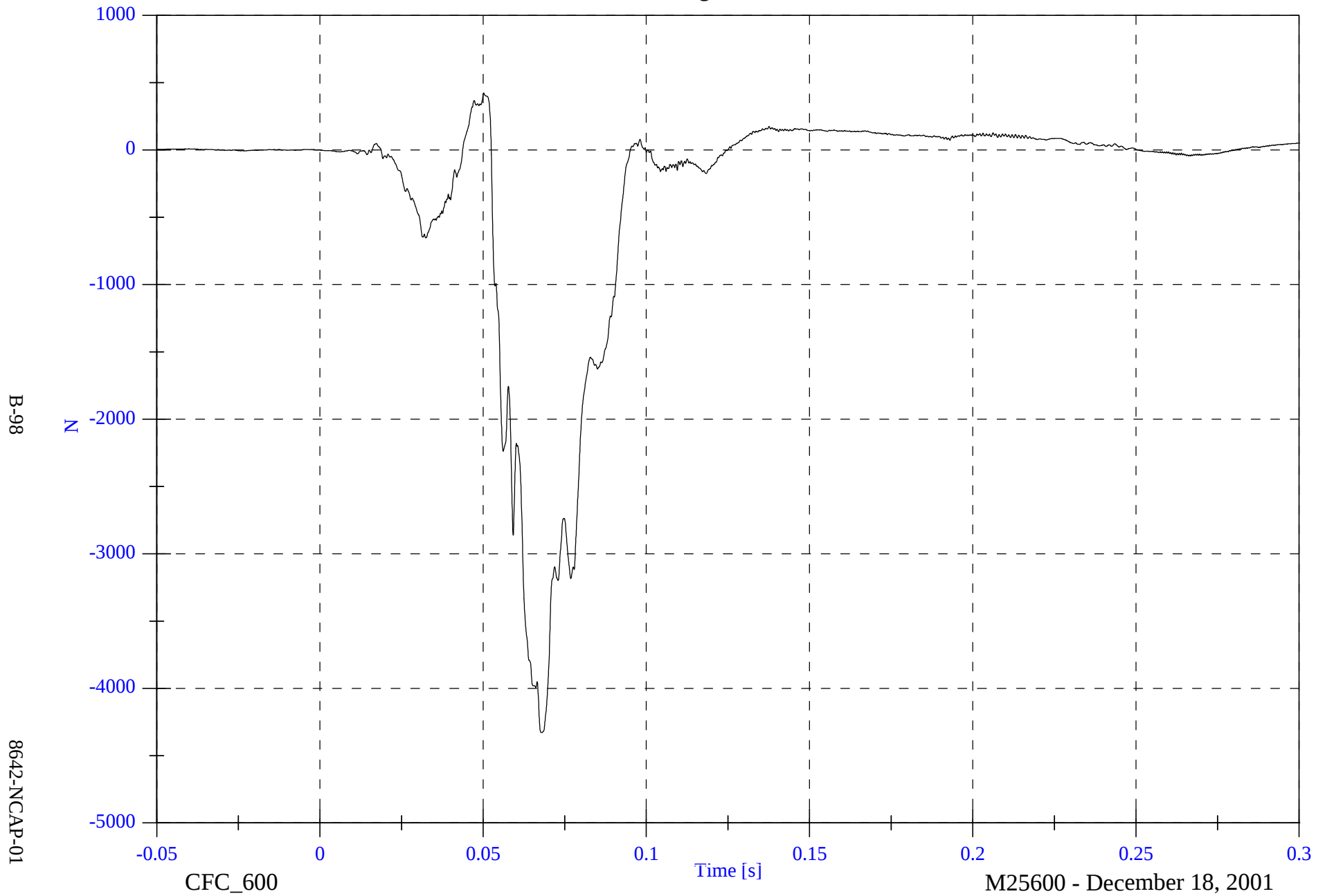
Max: 482.5 [N] at 0.051 [s]

Min: -2843.9 [N] at 0.060 [s]



Max: 424.6 [N] at 0.050 [s]
Min: -4329.2 [N] at 0.068 [s]

Min: -4329.2 [N] at 0.068 [s]



2002 NCAP Test 1-2002 Mitsubishi Eclipse

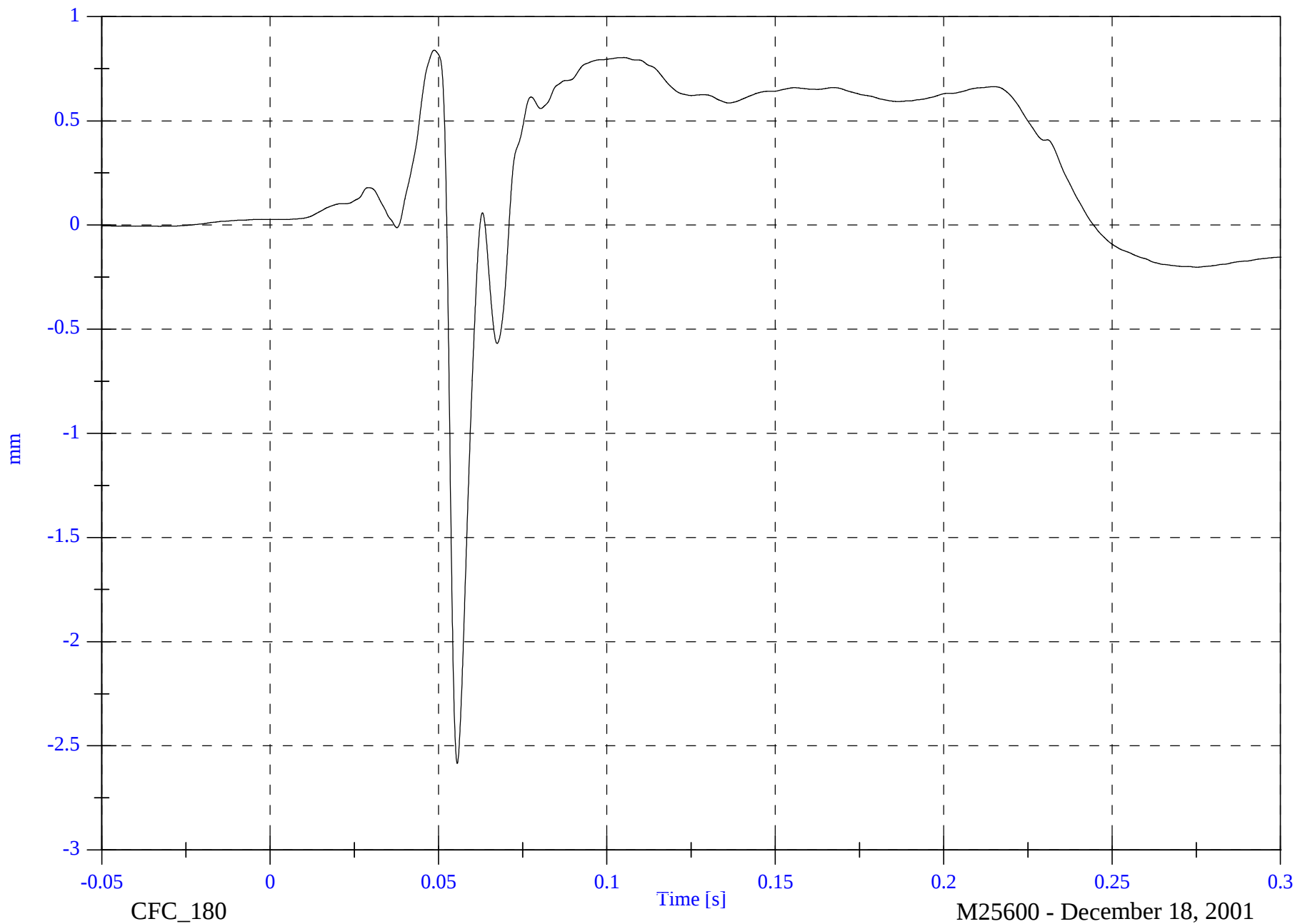
P2 Left Knee Shear

Max: 0.8 [mm] at 0.049 [s]

Min: -2.6 [mm] at 0.056 [s]

B-99

8642-NCAP-01

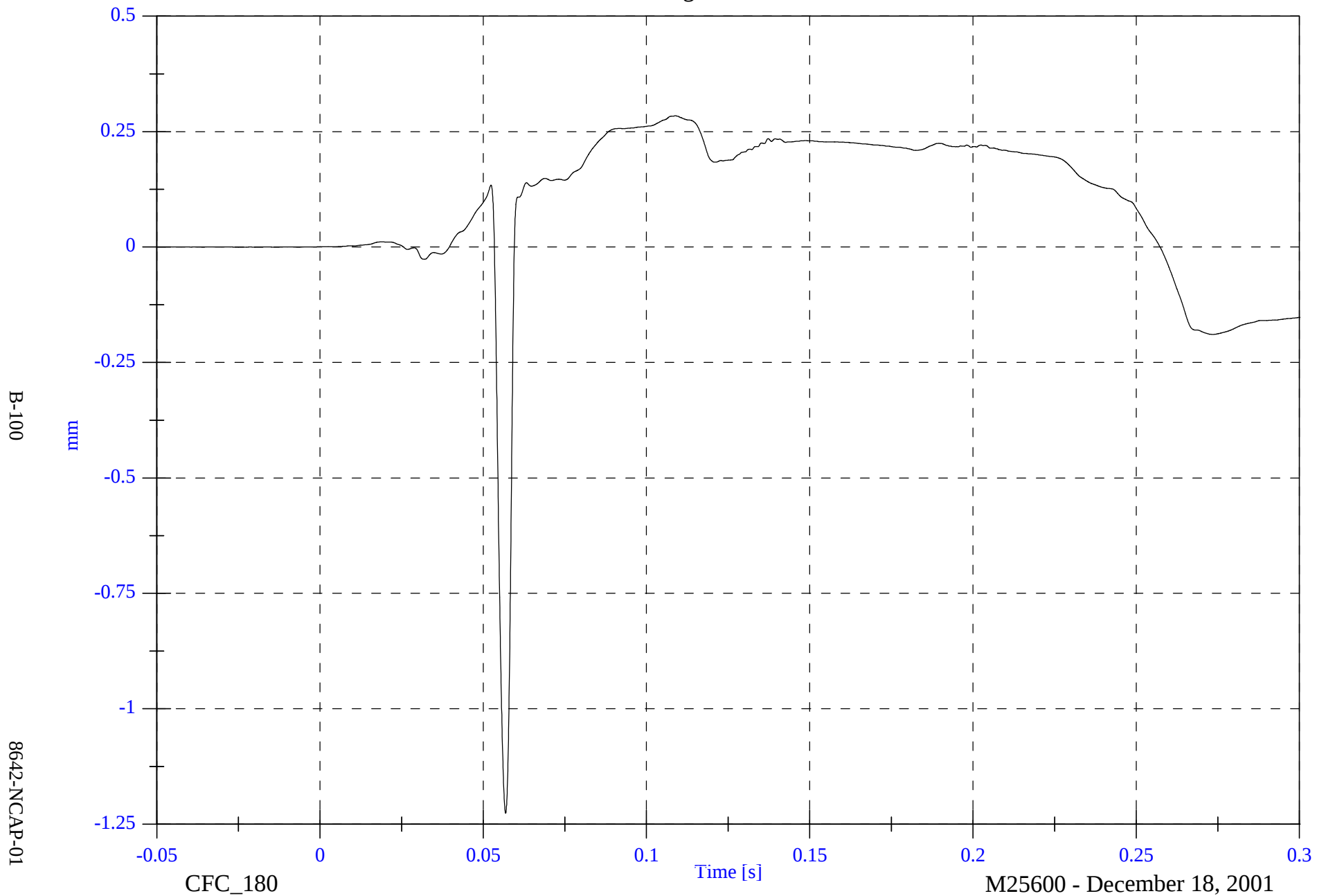


2002 NCAP Test 1-2002 Mitsubishi Eclipse

P2 Right Knee Shear

Max: 0.3 [mm] at 0.109 [s]

Min: -1.2 [mm] at 0.057 [s]



2002 NCAP Test 1-2002 Mitsubishi Eclipse

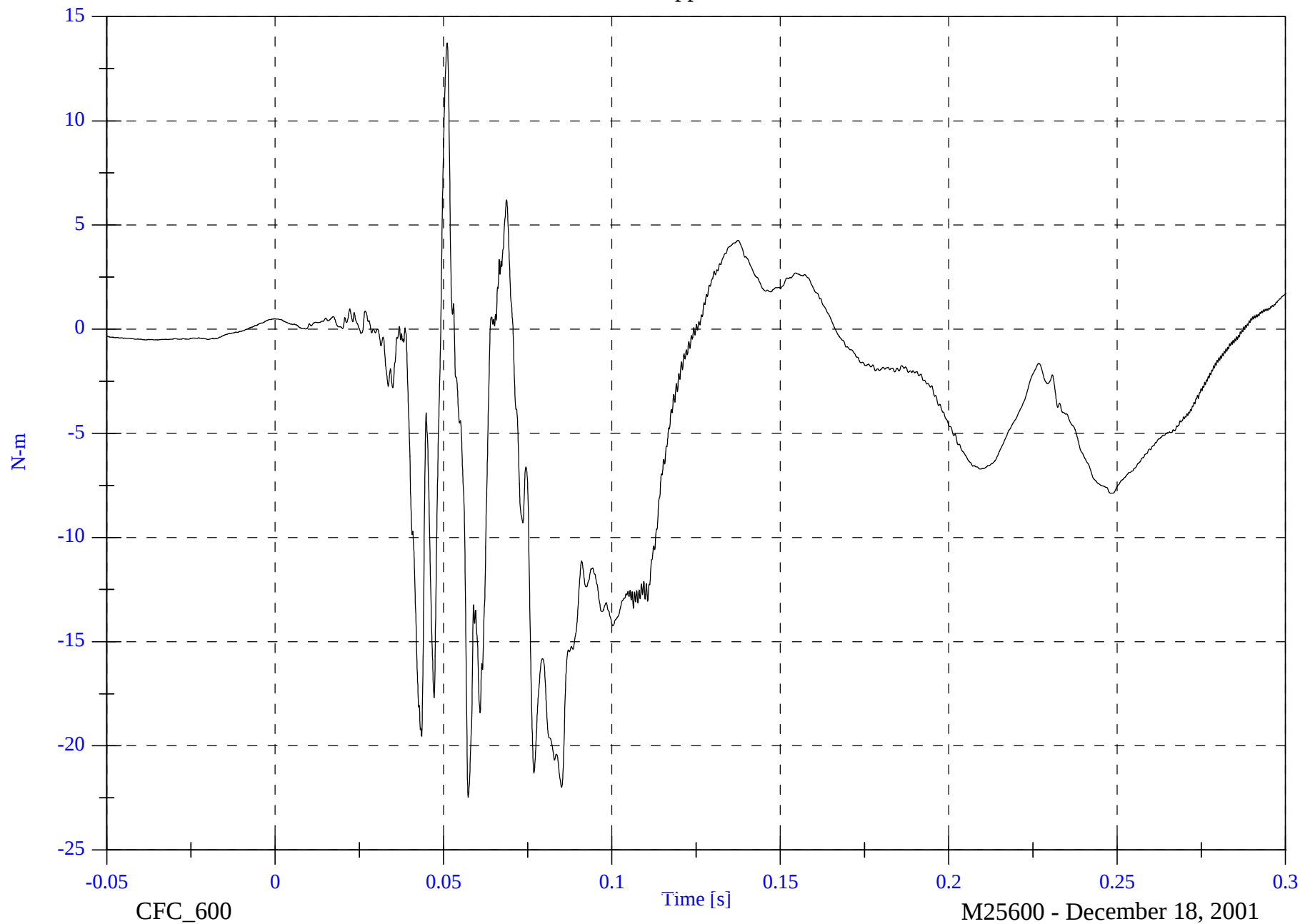
P2 Left Upper Tibia Mx

Max: 13.7 [N-m] at 0.051 [s]

Min: -22.5 [N-m] at 0.057 [s]

B-101

8642-NCAP-01

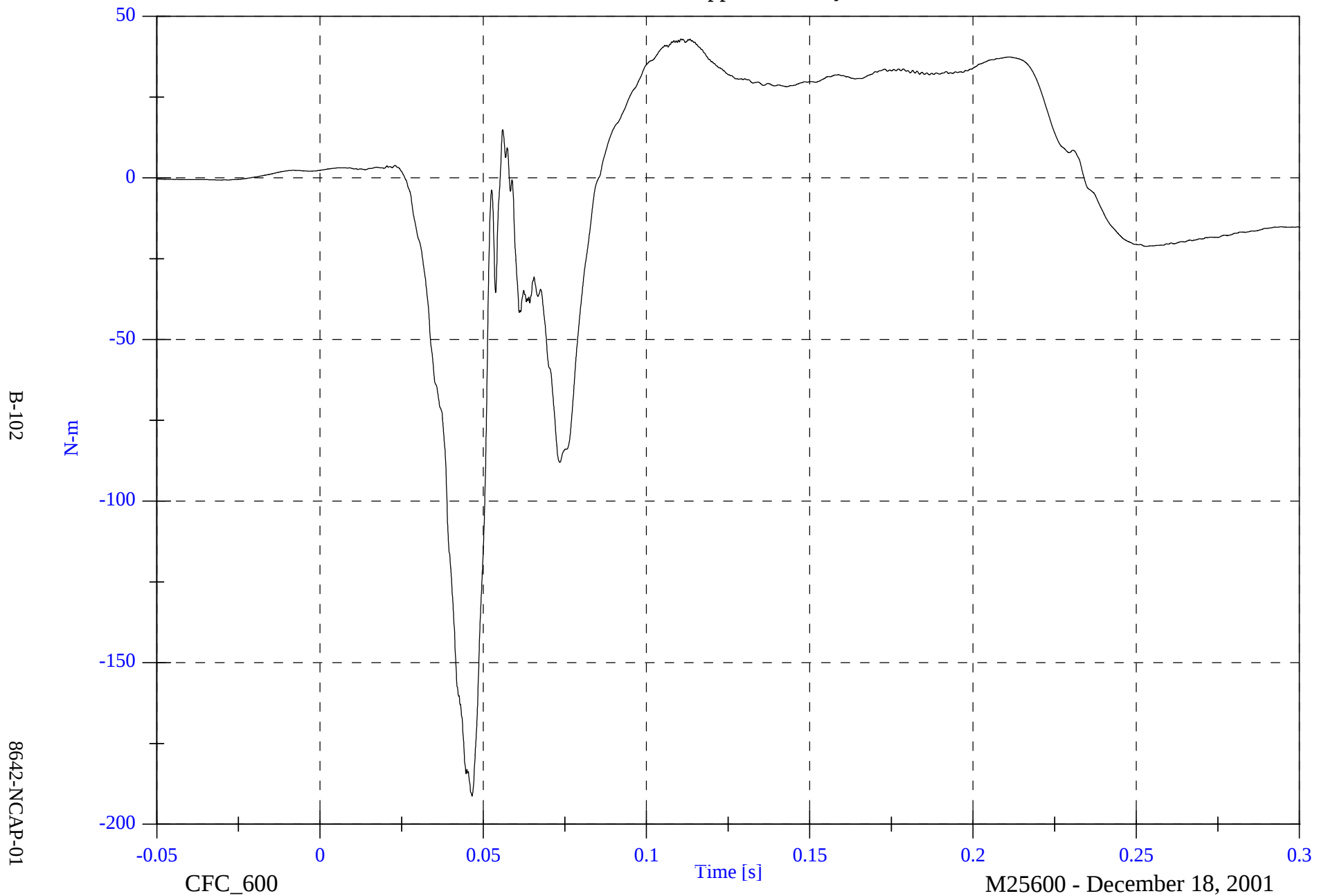


2002 NCAP Test 1-2002 Mitsubishi Eclipse

P2 Left Upper Tibia My

Max: 42.9 [N-m] at 0.111 [s]

Min: -191.4 [N-m] at 0.047 [s]

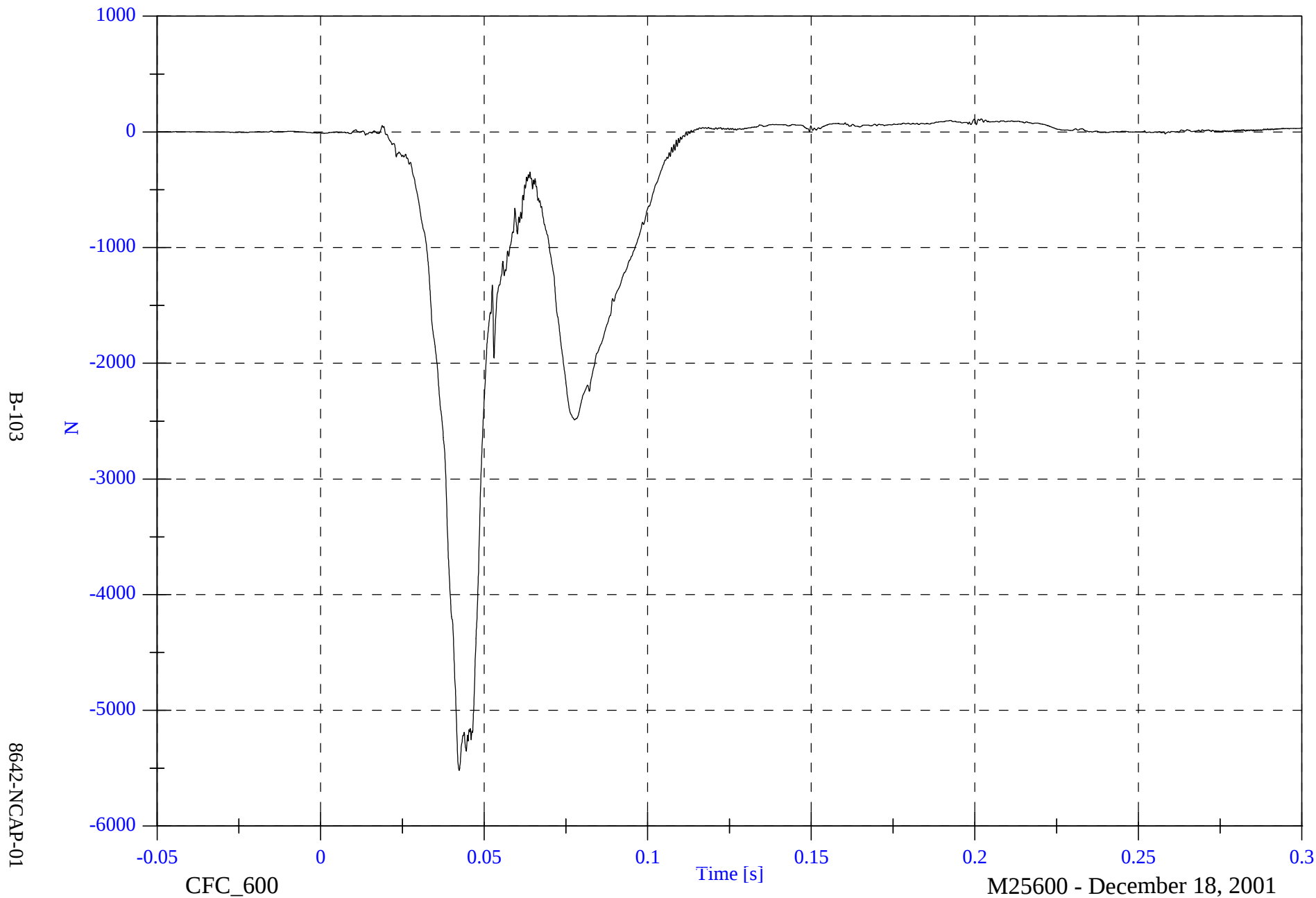


2002 NCAP Test 1-2002 Mitsubishi Eclipse

P2 Left Lower Tibia Fz

Max: 112.5 [N] at 0.202 [s]

Min: -5519.5 [N] at 0.042 [s]



2002 NCAP Test 1-2002 Mitsubishi Eclipse

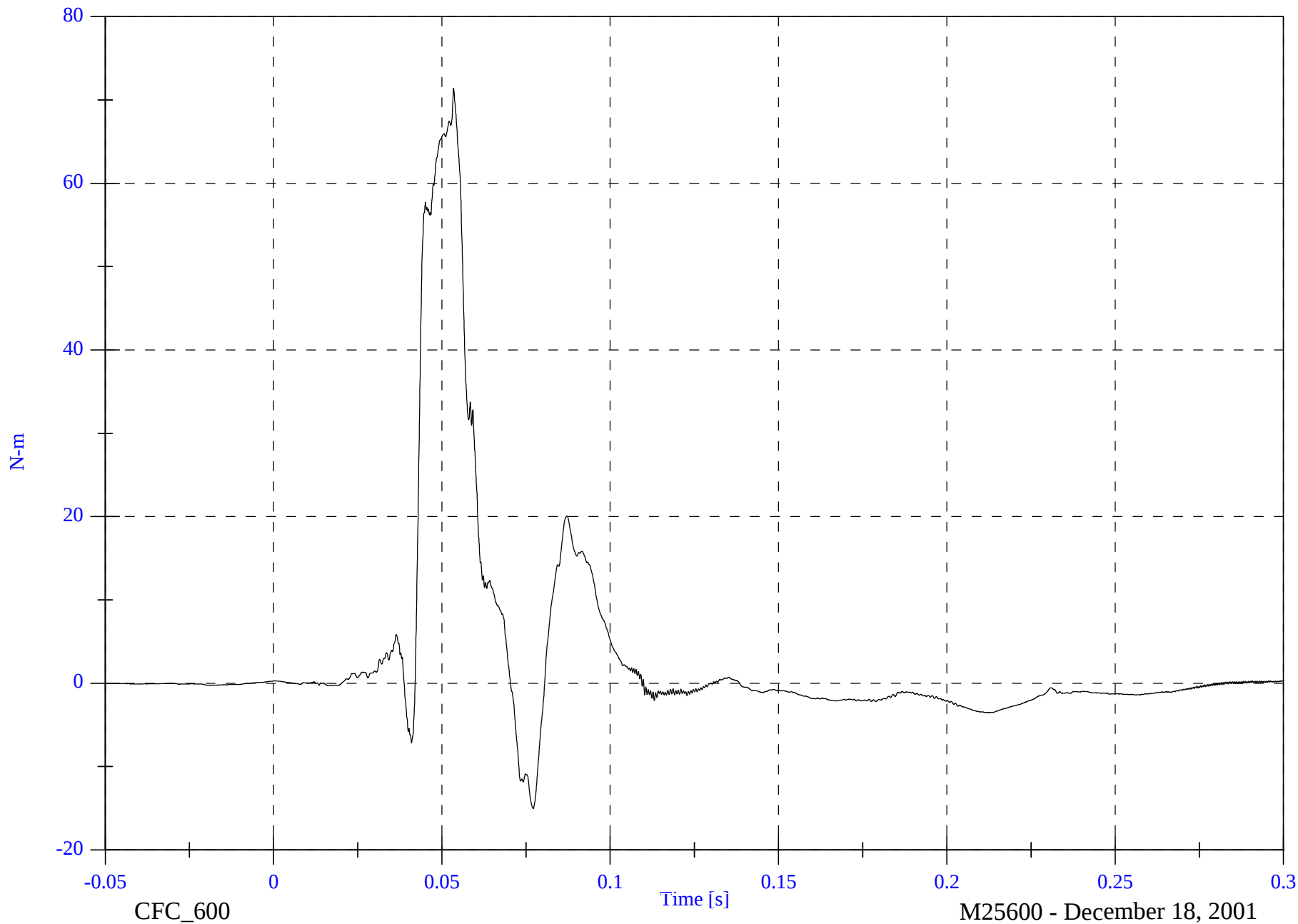
P2 Left Lower Tibia Mx

Max: 71.4 [N-m] at 0.053 [s]

Min: -15.0 [N-m] at 0.077 [s]

B-104

8642-NCAP-01



2002 NCAP Test 1-2002 Mitsubishi Eclipse

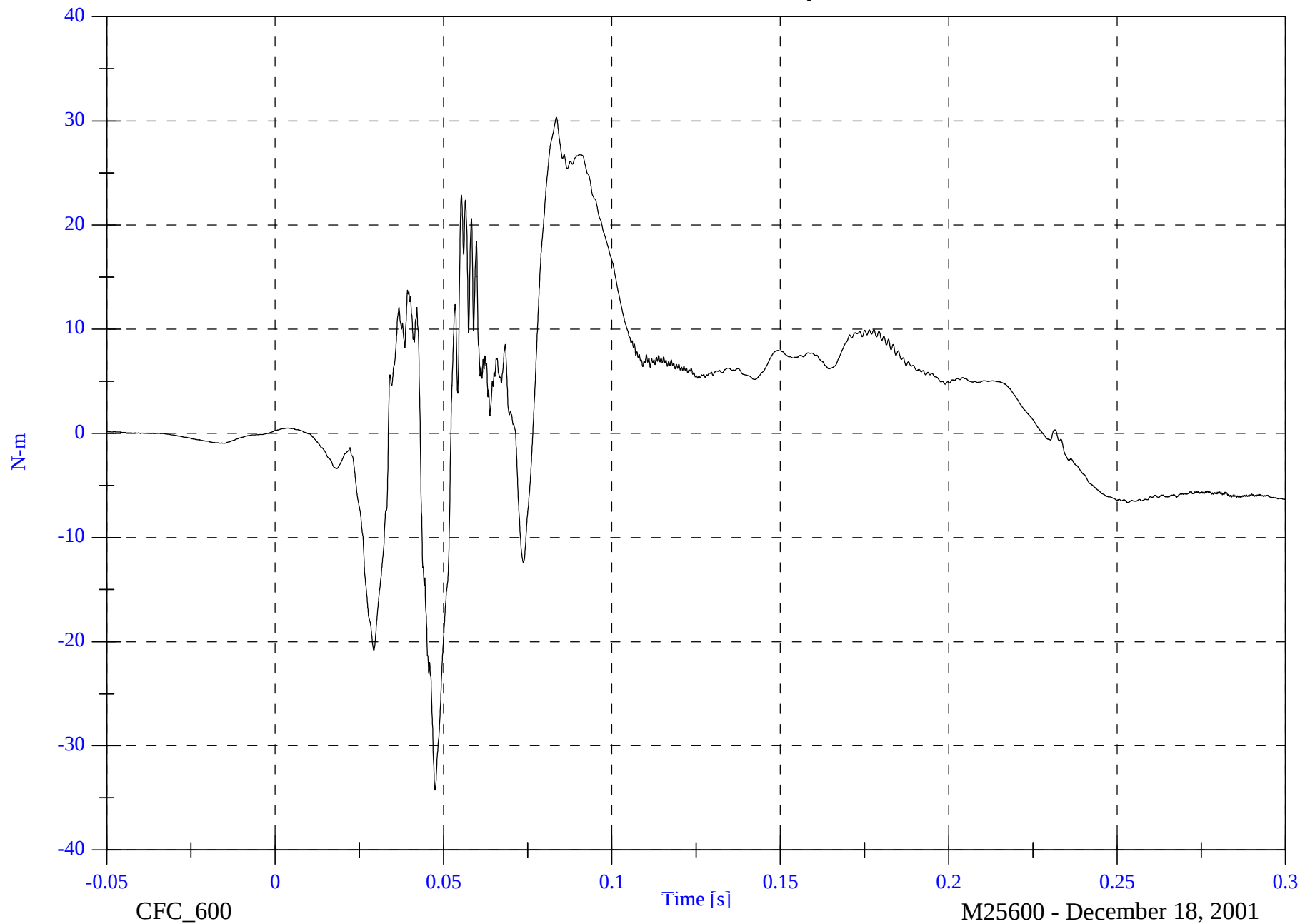
P2 Left Lower Tibia My

Max: 30.3 [N-m] at 0.084 [s]

Min: -34.3 [N-m] at 0.047 [s]

B-105

8642-NCAP-01



2002 NCAP Test 1-2002 Mitsubishi Eclipse

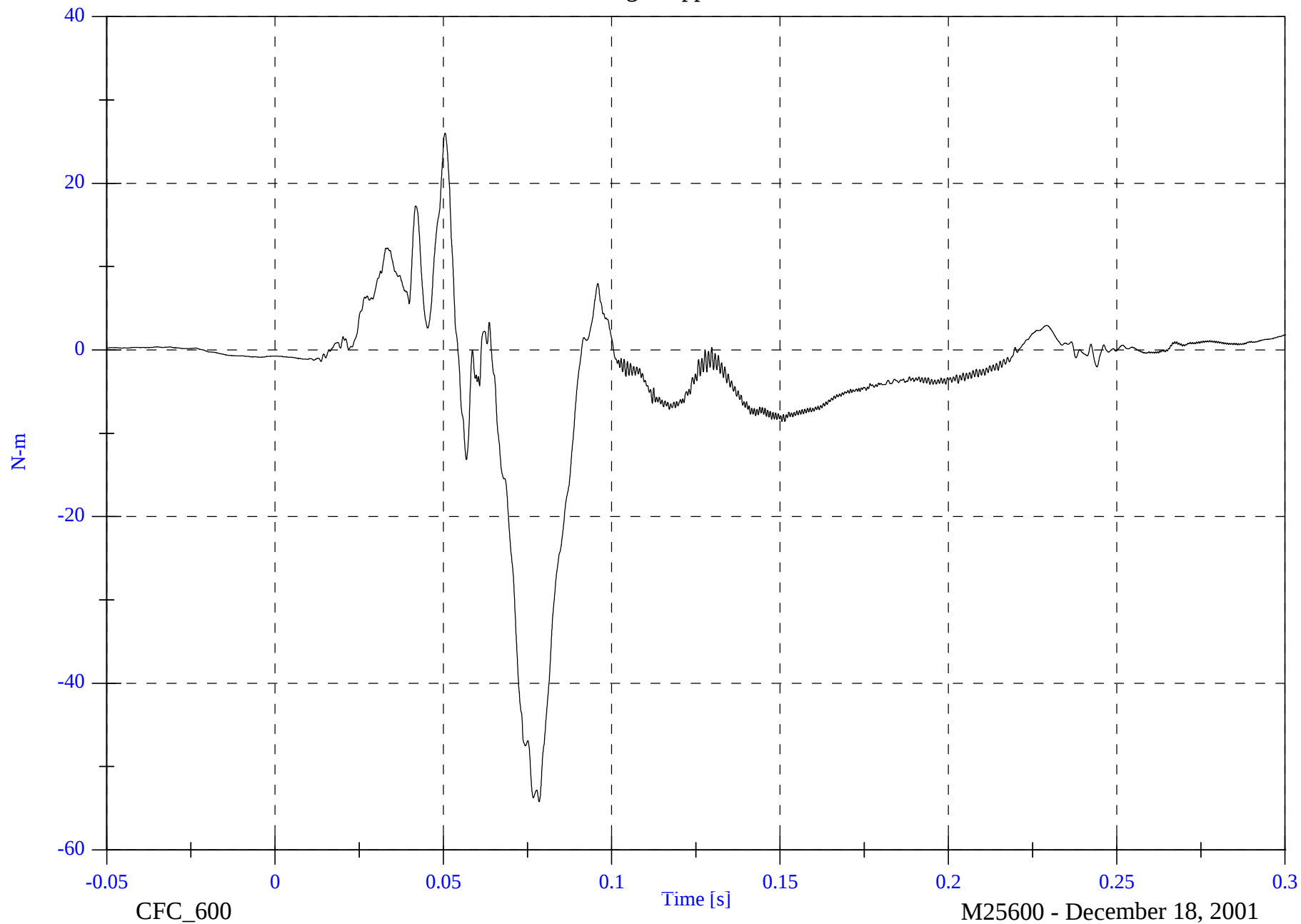
P2 Right Upper Tibia Mx

Max: 26.0 [N-m] at 0.051 [s]

Min: -54.2 [N-m] at 0.078 [s]

B-106

8642-NCAP-01

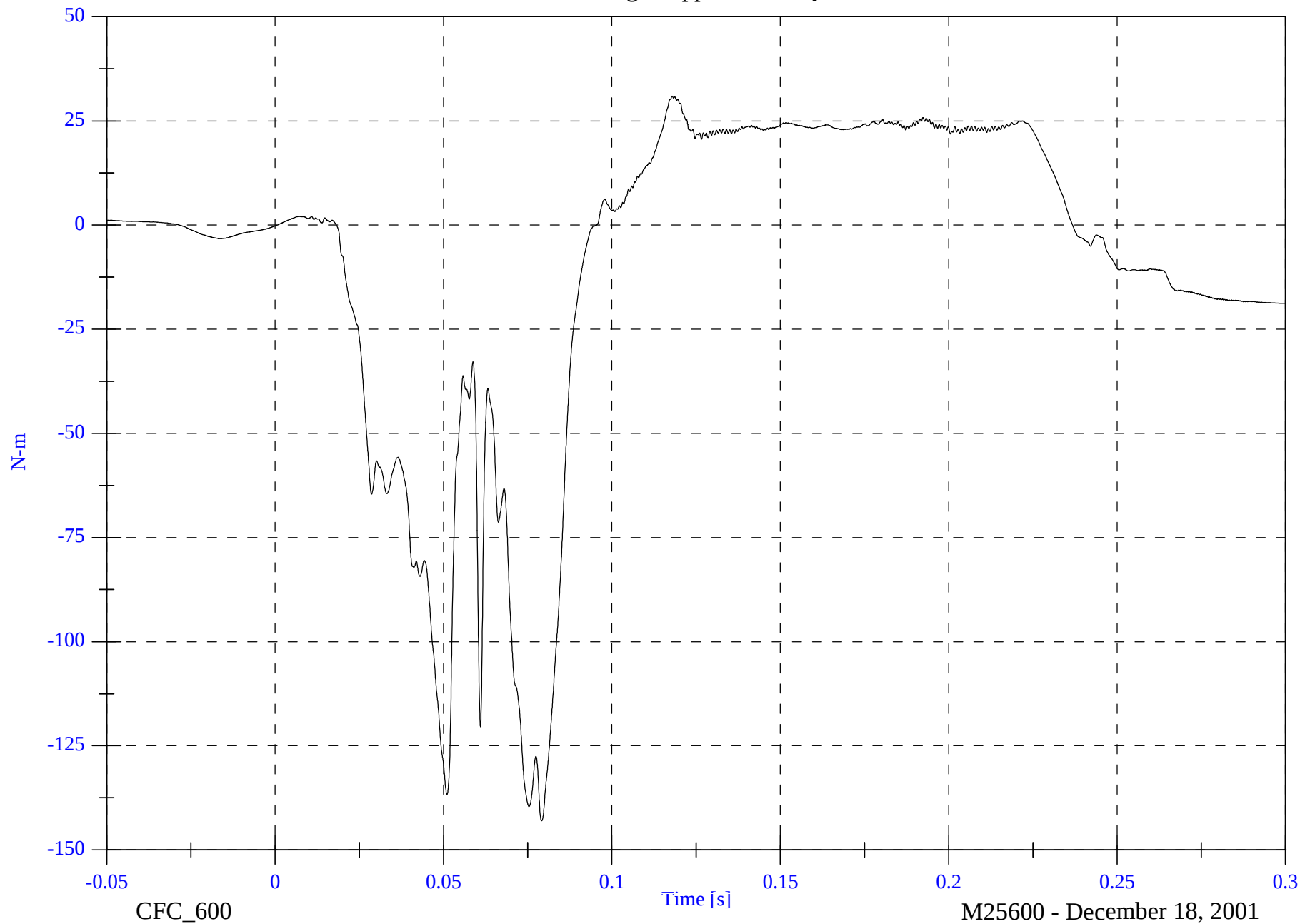


2002 NCAP Test 1-2002 Mitsubishi Eclipse

P2 Right Upper Tibia My

Max: 31.0 [N-m] at 0.118 [s]

Min: -143.0 [N-m] at 0.079 [s]



B-107

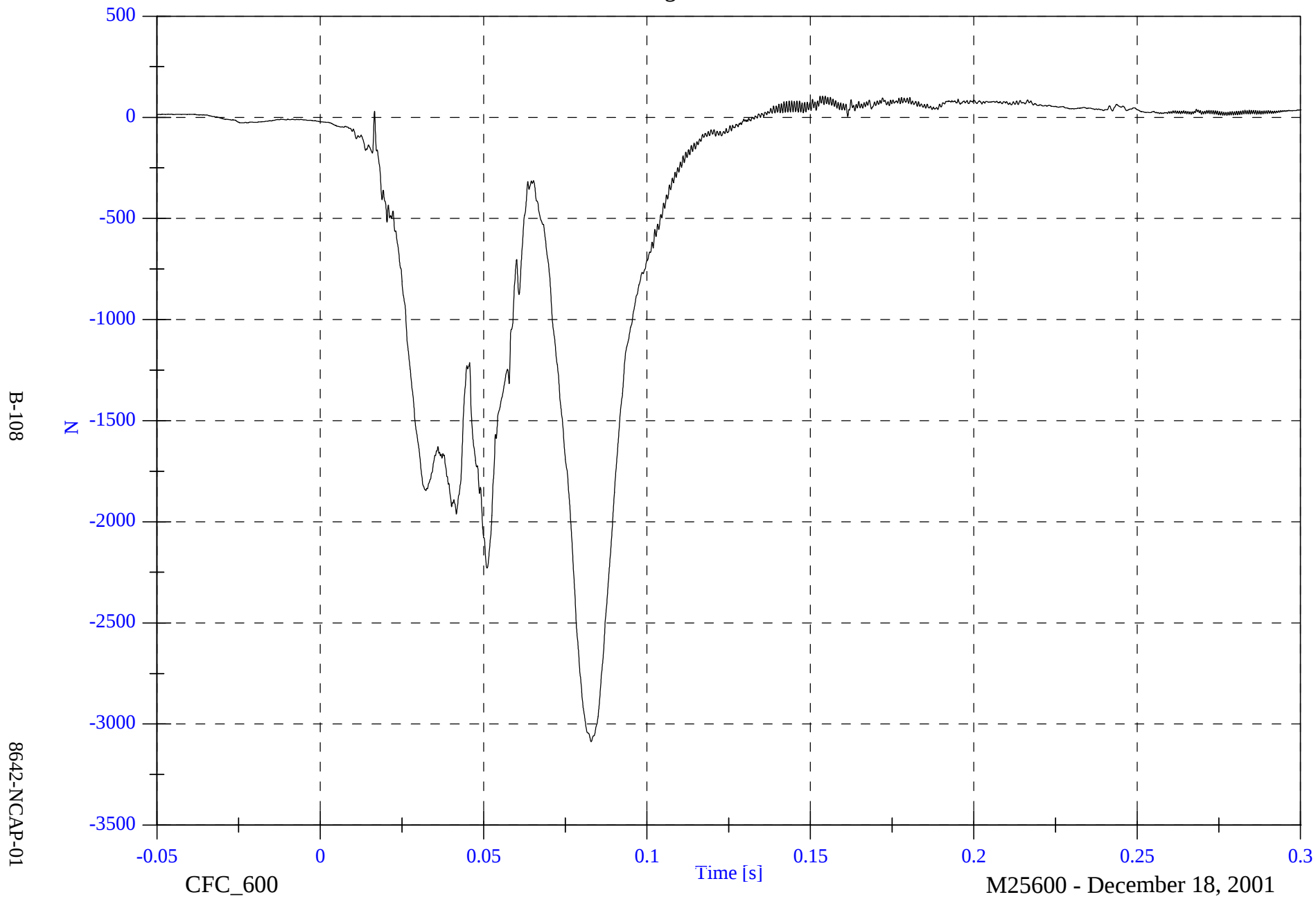
8642-NCAP-01

2002 NCAP Test 1-2002 Mitsubishi Eclipse

P2 Right Lower Tibia Fz

Max: 105.5 [N] at 0.154 [s]

Min: -3087.6 [N] at 0.083 [s]

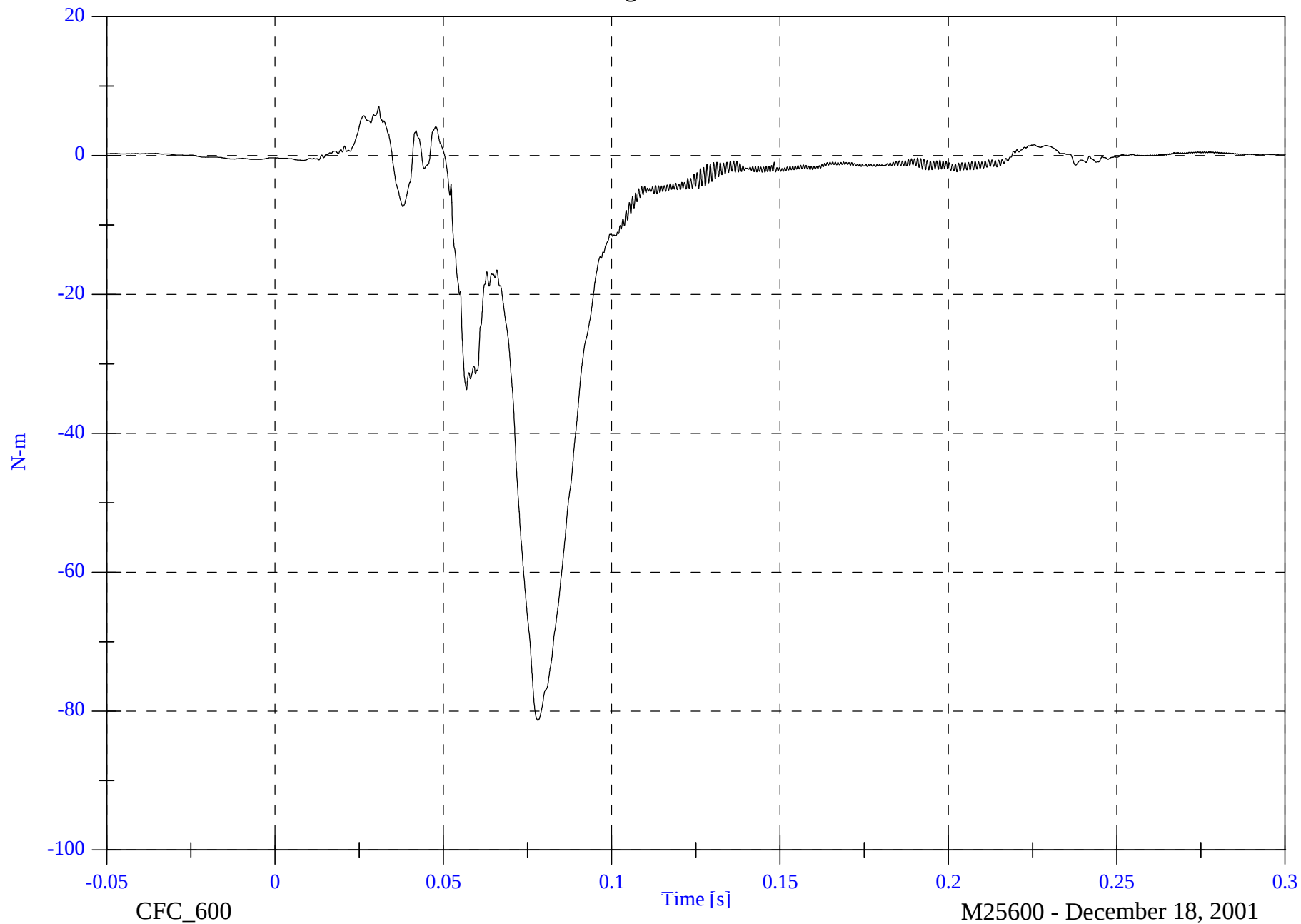


2002 NCAP Test 1-2002 Mitsubishi Eclipse

P2 Right Lower Tibia Mx

Max: 7.1 [N-m] at 0.031 [s]

Min: -81.3 [N-m] at 0.078 [s]



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2002 NCAP Test 1-2002 Mitsubishi Eclipse

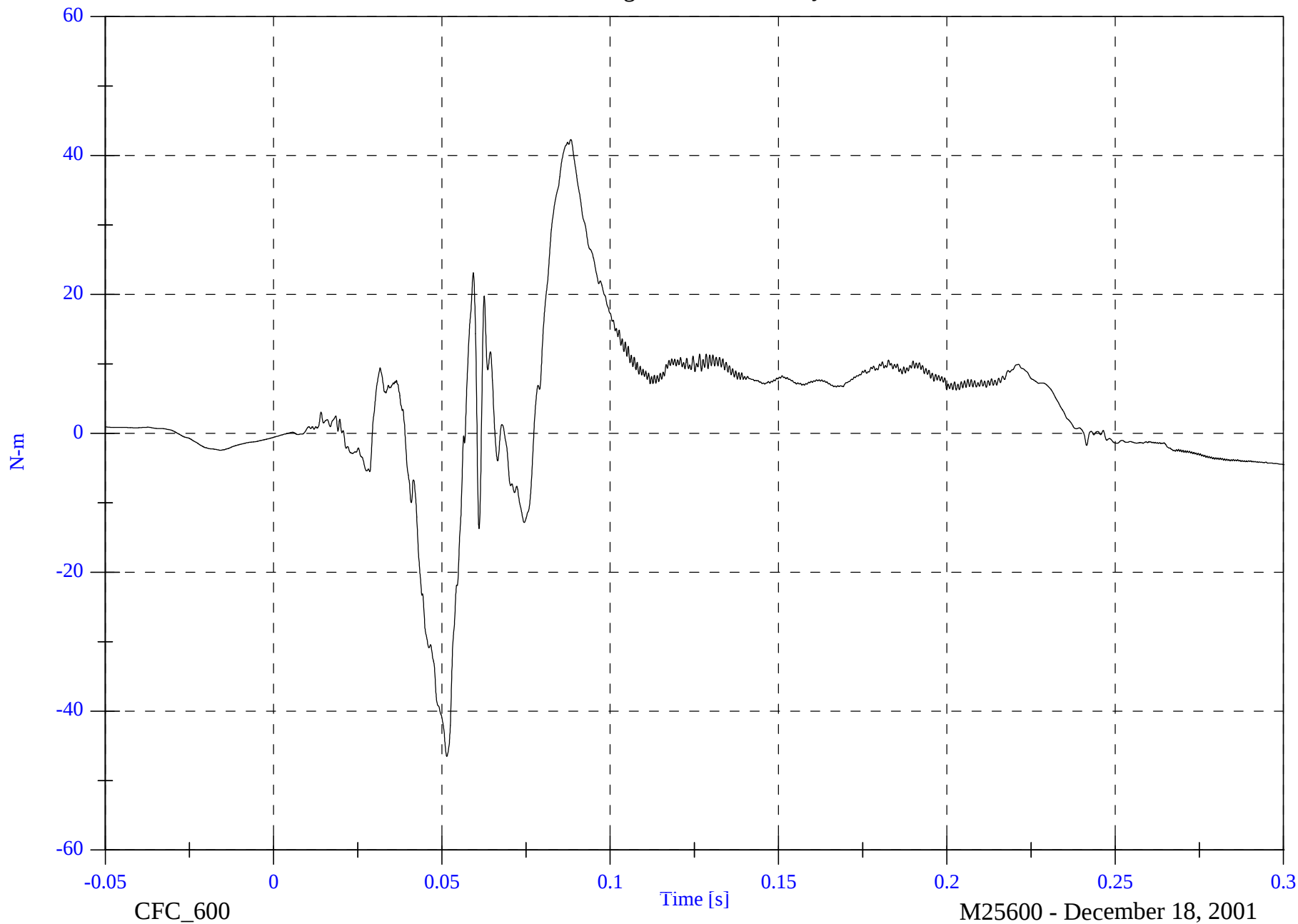
P2 Right Lower Tibia My

Max: 42.3 [N-m] at 0.088 [s]

Min: -46.5 [N-m] at 0.051 [s]

B-110

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2002 NCAP Test 1-2002 Mitsubishi Eclipse

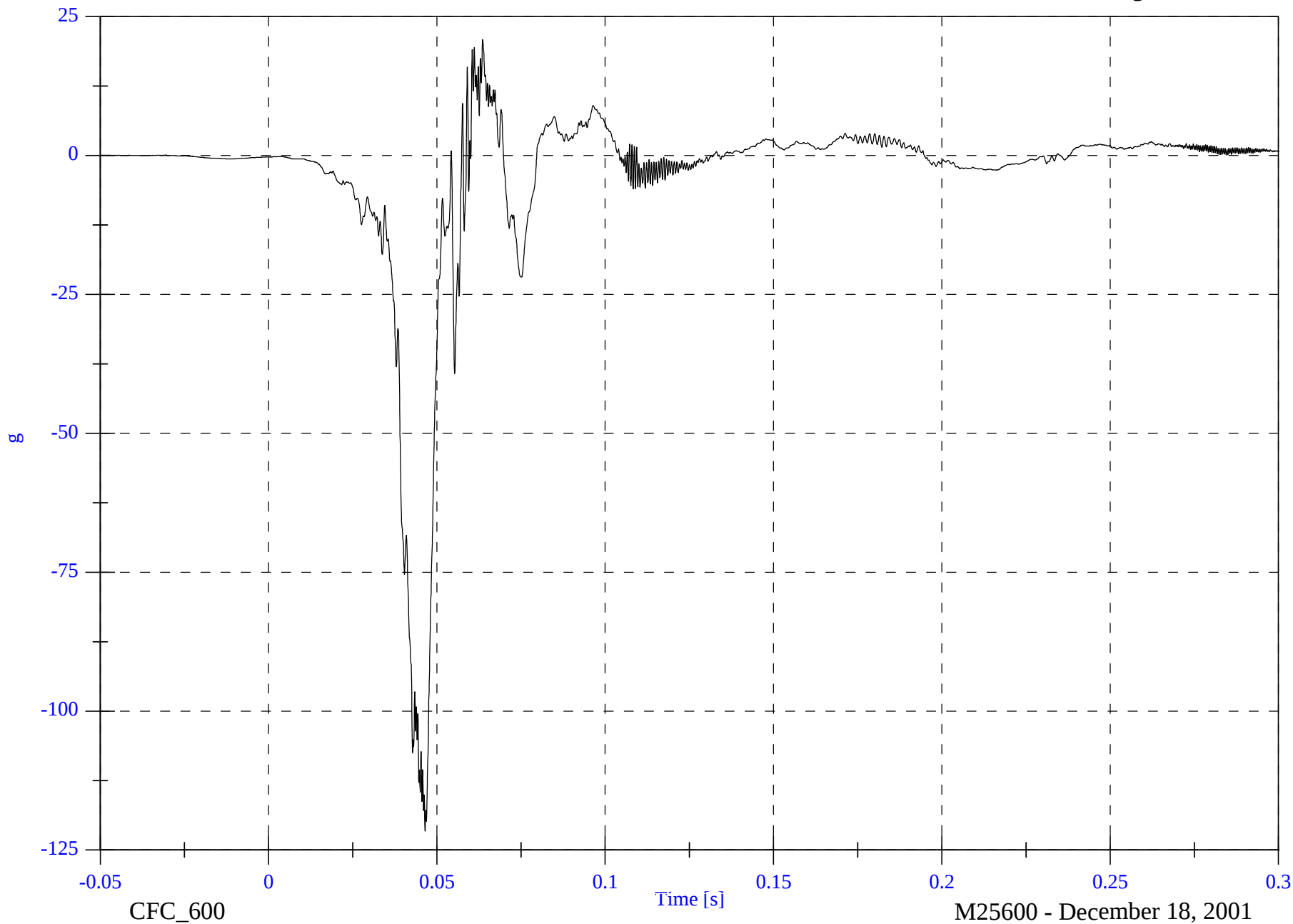
P2 Left Foot Aft x

Max: 20.9 [g] at 0.064 [s]

Min: -121.6 [g] at 0.046 [s]

B-111

8642-NCAP-01

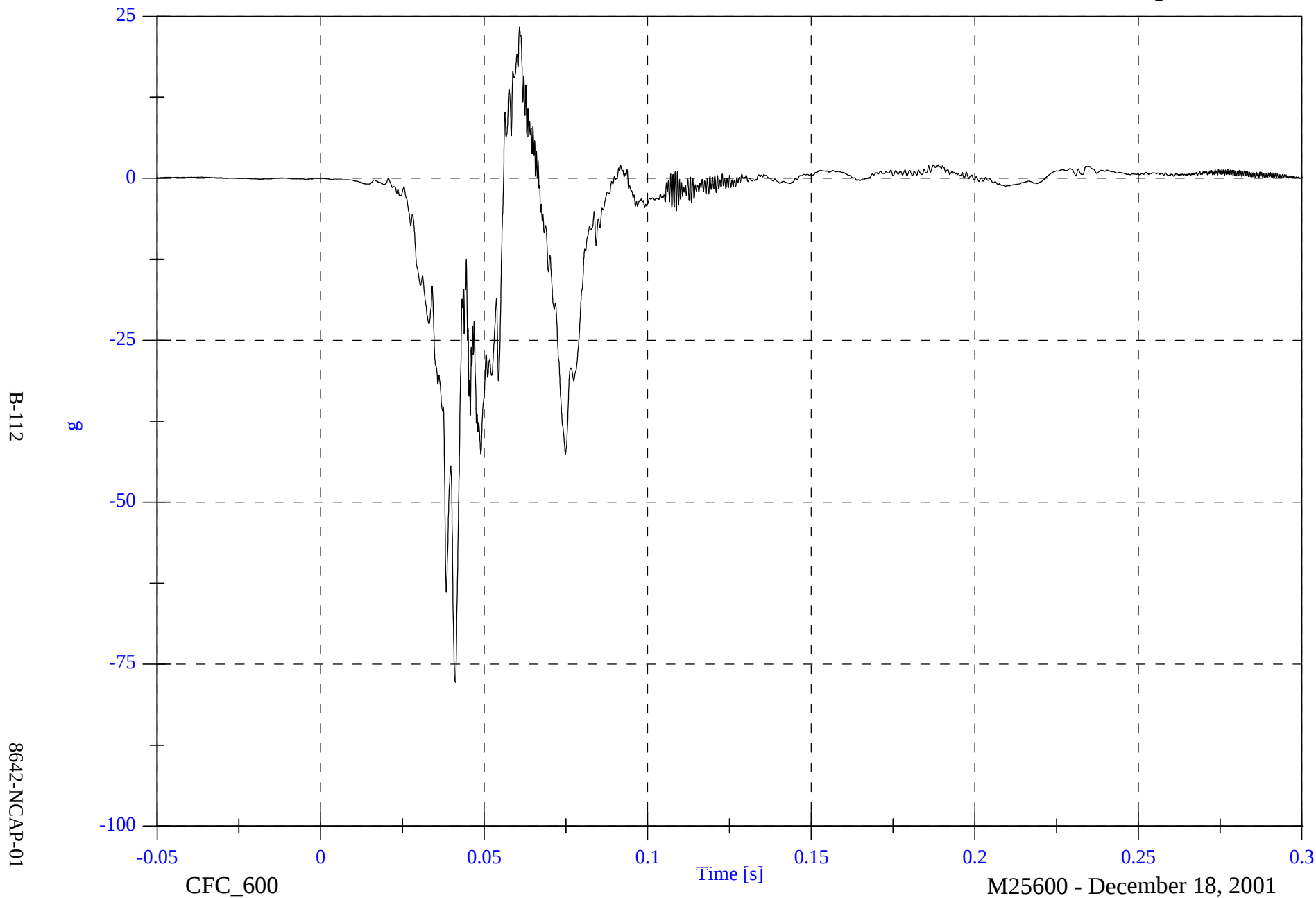


2002 NCAP Test 1-2002 Mitsubishi Eclipse

P2 Left Foot Aft z

Max: 23.3 [g] at 0.061 [s]

Min: -77.8 [g] at 0.041 [s]

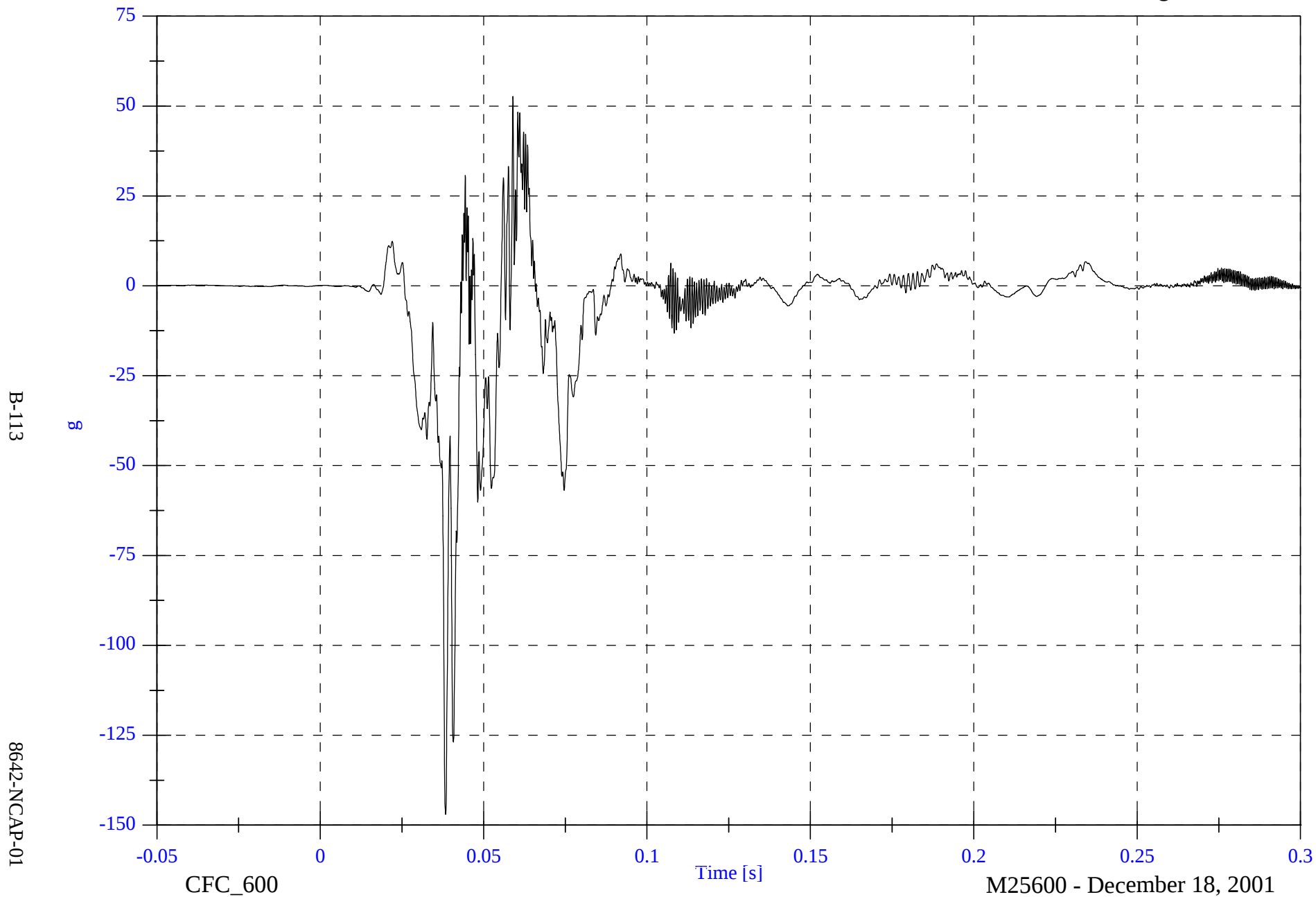


2002 NCAP Test 1-2002 Mitsubishi Eclipse

P2 Left Foot Fore z

Max: 52.7 [g] at 0.059 [s]

Min: -147.0 [g] at 0.038 [s]



2002 NCAP Test 1-2002 Mitsubishi Eclipse

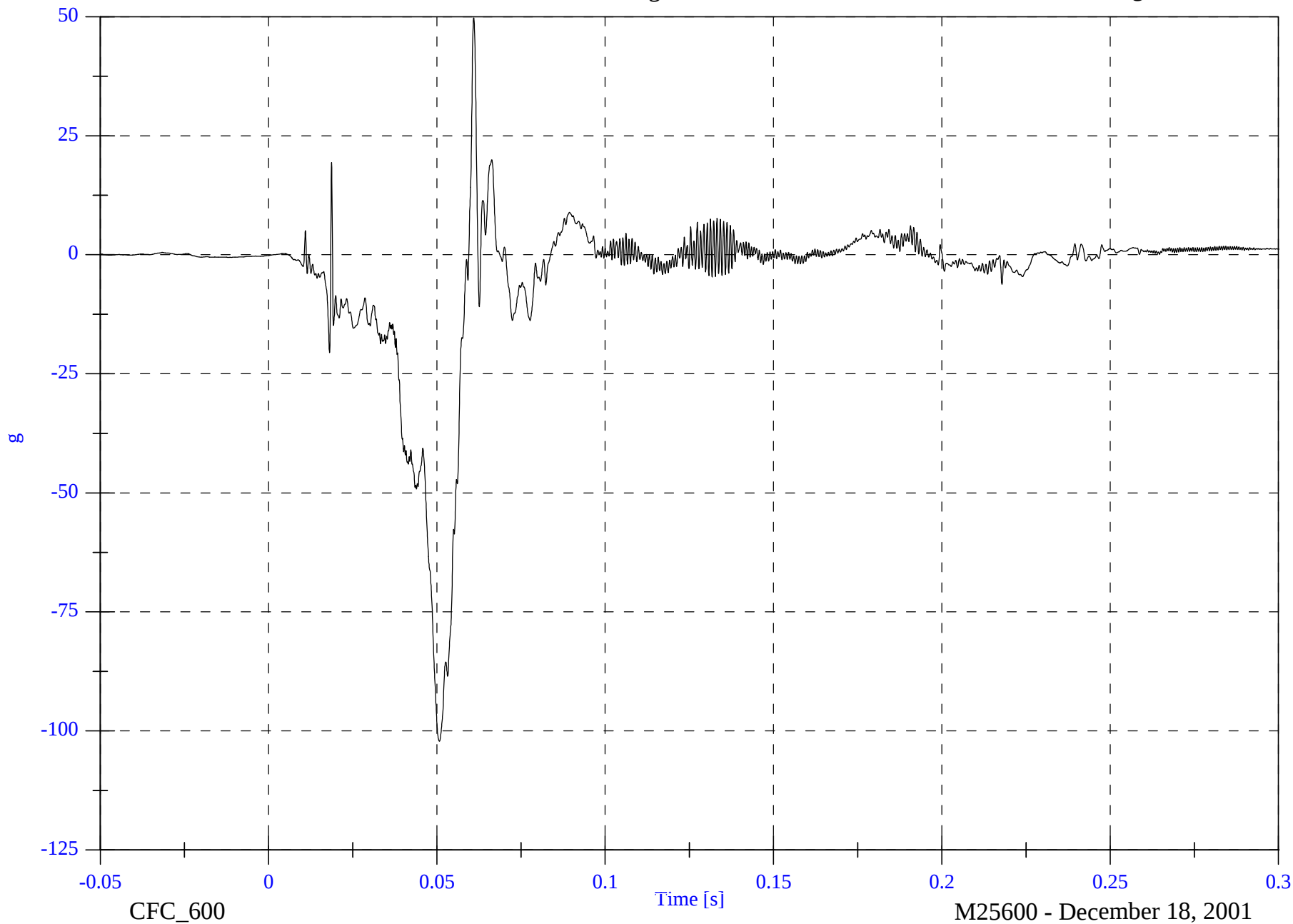
P2 Right Foot Aft x

Max: 49.7 [g] at 0.061 [s]

Min: -102.2 [g] at 0.051 [s]

B-114

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2002 NCAP Test 1-2002 Mitsubishi Eclipse

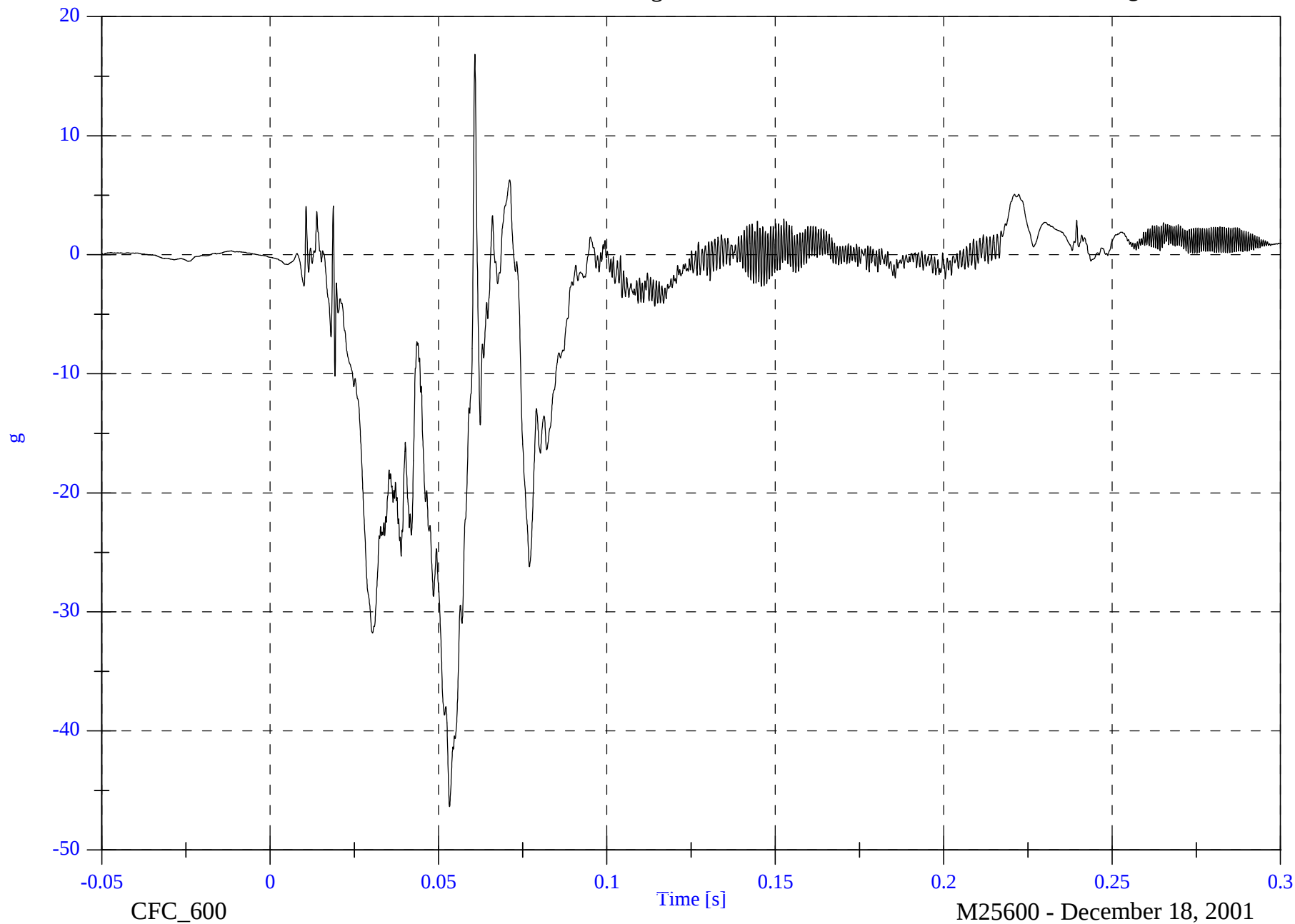
P2 Right Foot Aft z

Max: 16.9 [g] at 0.061 [s]

Min: -46.4 [g] at 0.053 [s]

B-115

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2002 NCAP Test 1-2002 Mitsubishi Eclipse

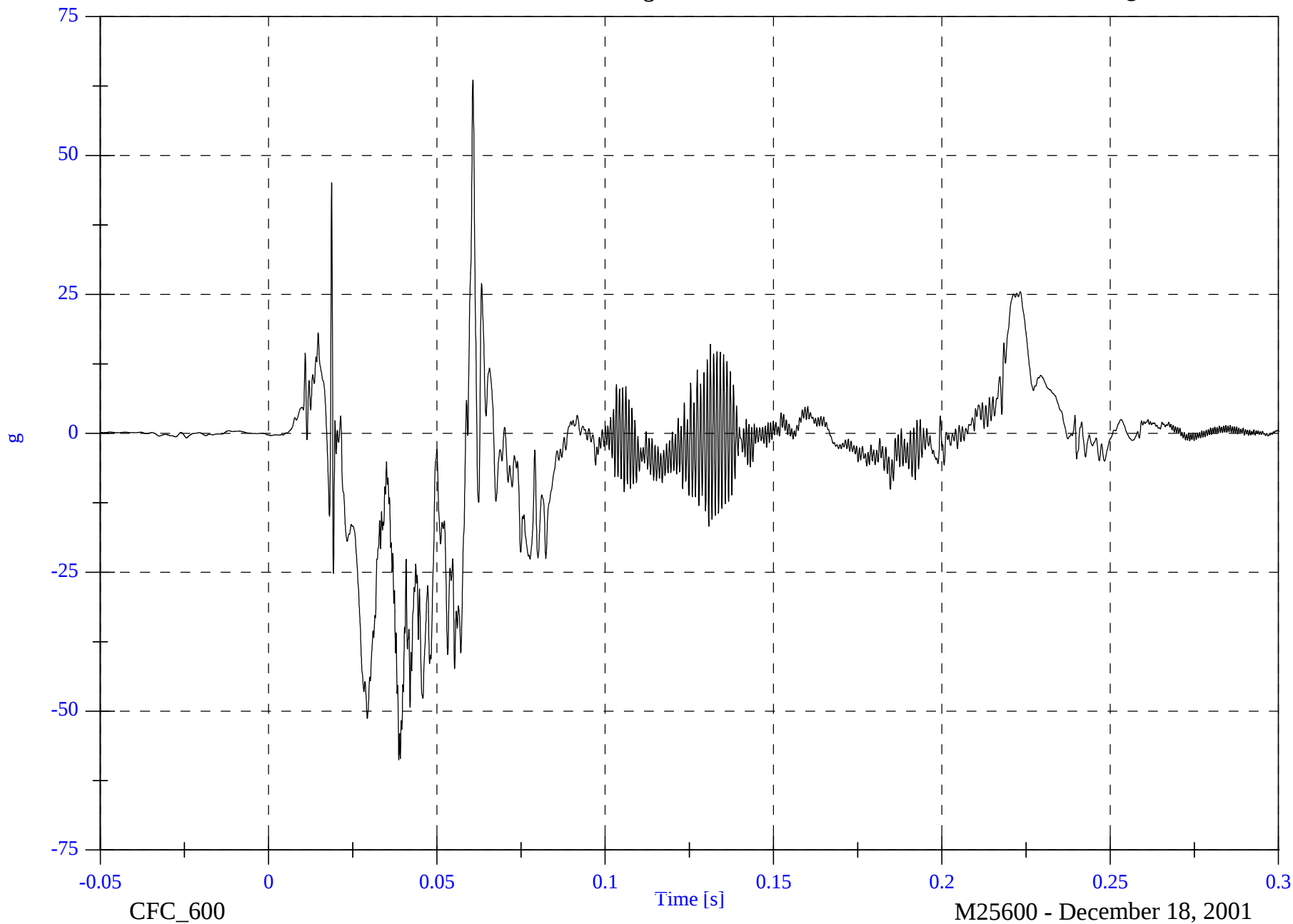
P2 Right Foot Fore z

Max: 63.6 [g] at 0.061 [s]

Min: -58.8 [g] at 0.039 [s]

B-116

8642-NCAP-01

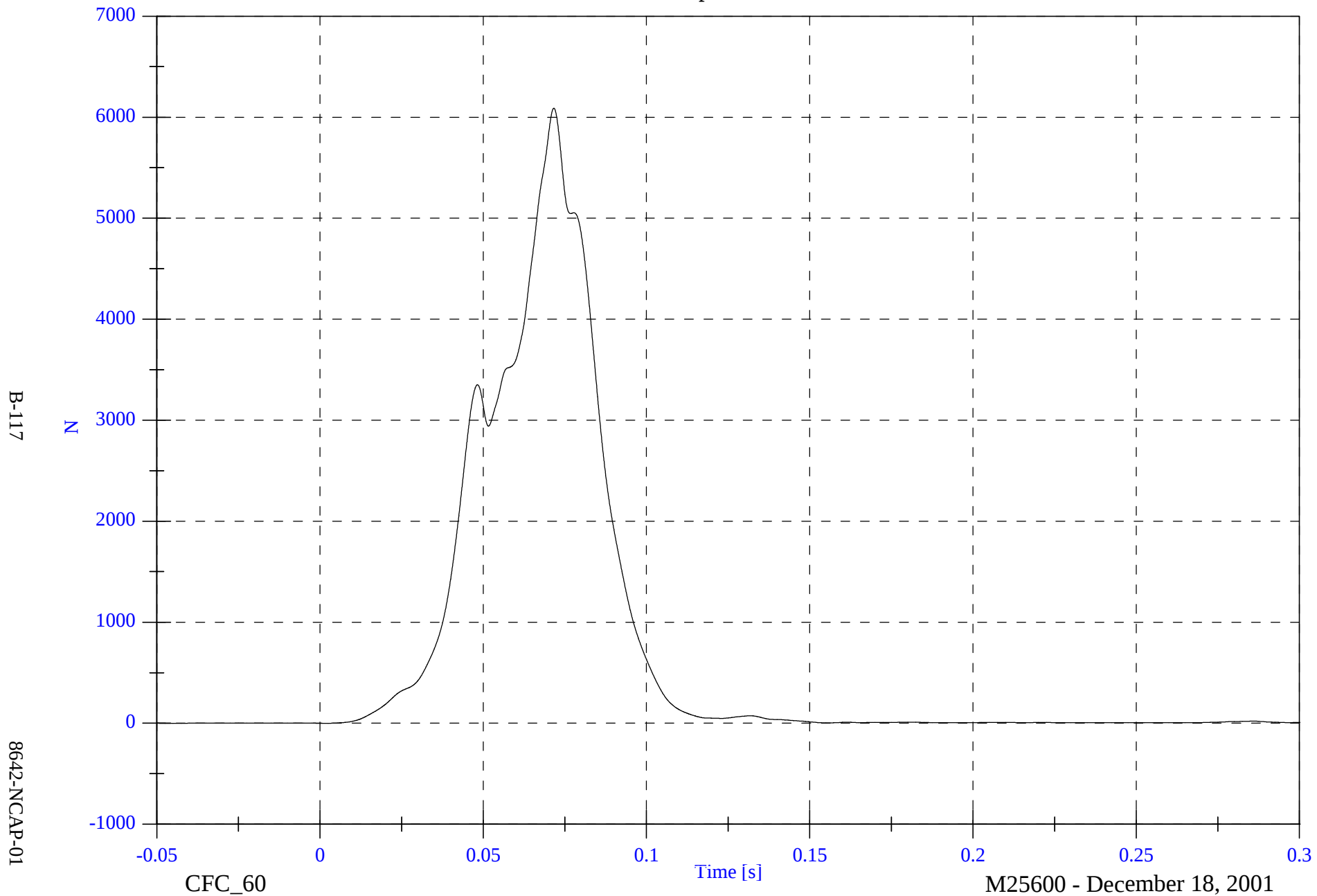


2002 NCAP Test 1-2002 Mitsubishi Eclipse

P2 Lap Belt Force

Max: 6089.0 [N] at 0.072 [s]

Min: -1.2 [N] at 0.002 [s]

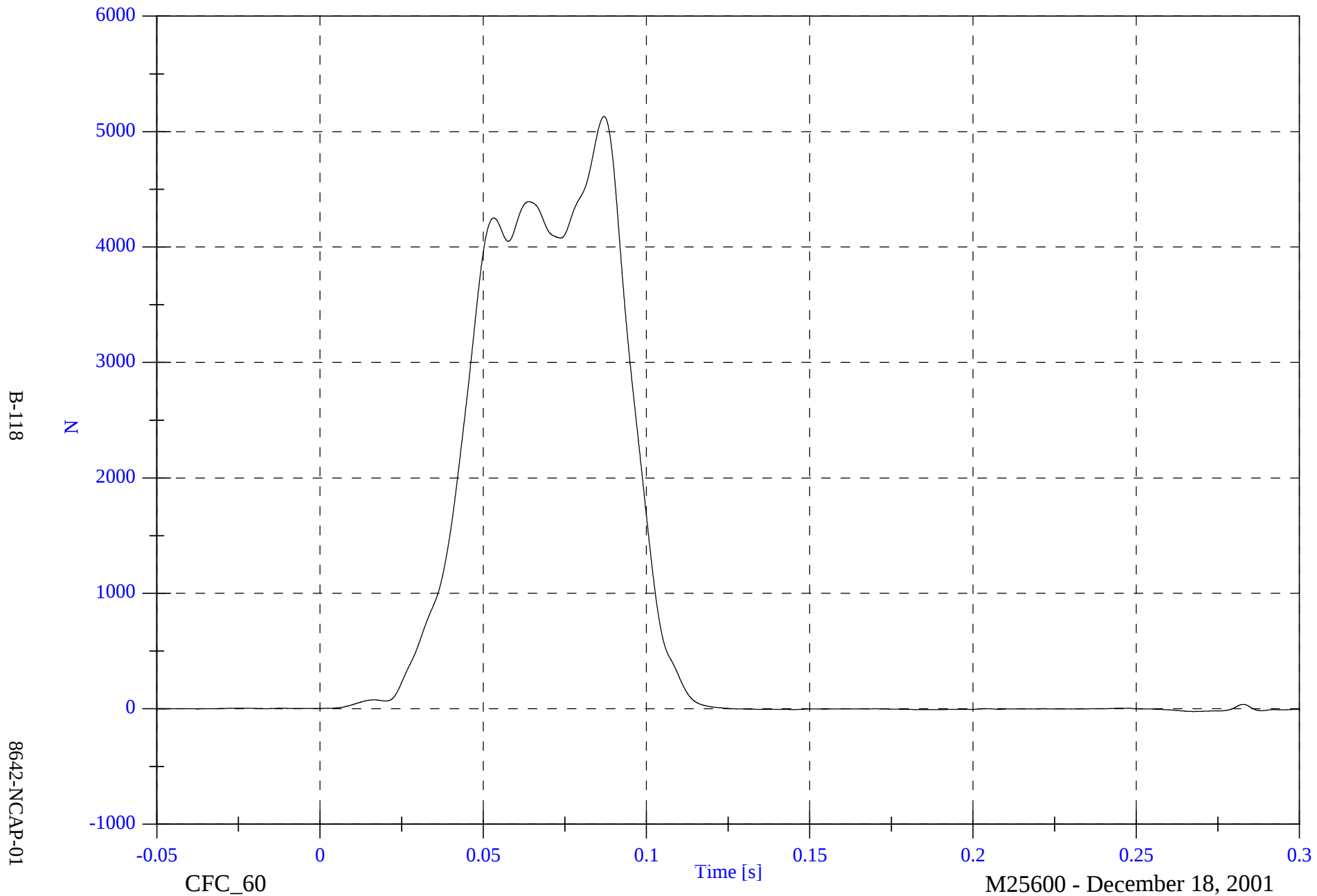


2002 NCAP Test 1-2002 Mitsubishi Eclipse

P2 Torso Belt Force

Max: 5130.8 [N] at 0.087 [s]

Min: -23.5 [N] at 0.268 [s]



2002 NCAP Test 1-2002 Mitsubishi Eclipse

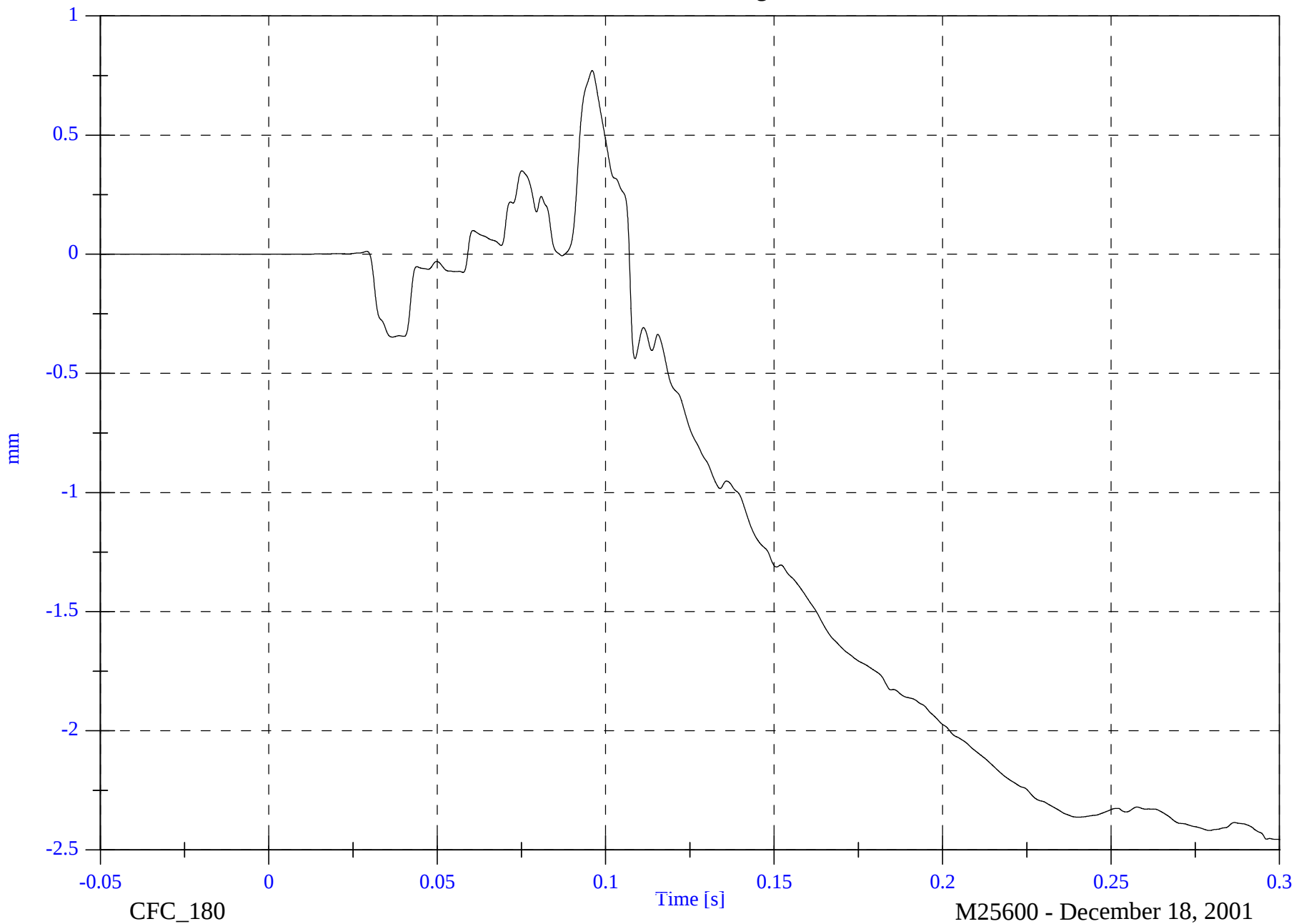
P2 Torso Belt Elongation

Max: 0.8 [mm] at 0.096 [s]

Min: -2.5 [mm] at 0.300 [s]

B-119

8642-NCAP-01

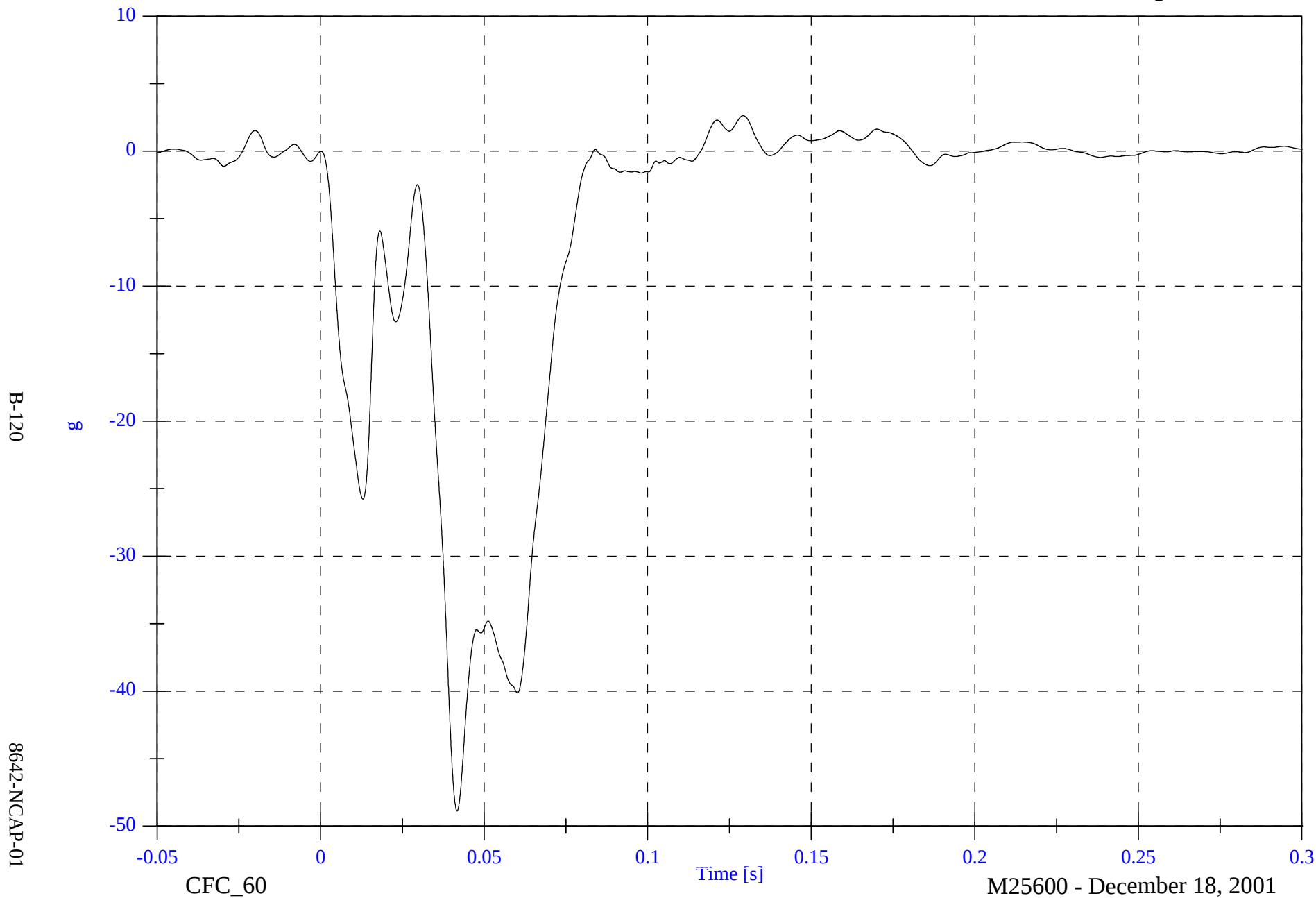


2002 NCAP Test 1-2002 Mitsubishi Eclipse

V Left Rear #1x

Max: 2.6 [g] at 0.129 [s]

Min: -48.9 [g] at 0.042 [s]

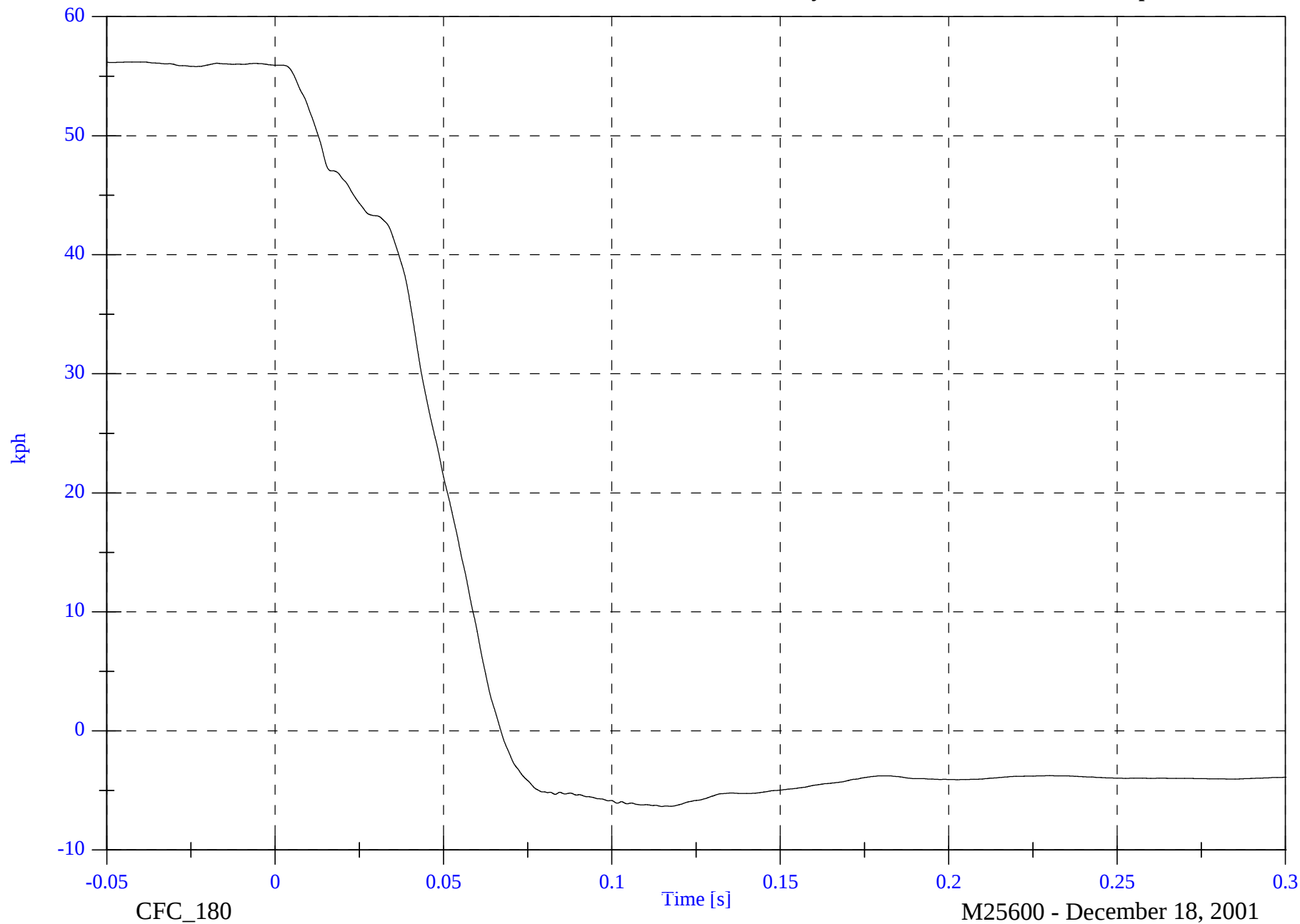


2002 NCAP Test 1-2002 Mitsubishi Eclipse

Max: 56.2 [kph] at -0.040 [s]

V Left Rear #1x Velocity

Min: -6.3 [kph] at 0.115 [s]



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2002 NCAP Test 1-2002 Mitsubishi Eclipse

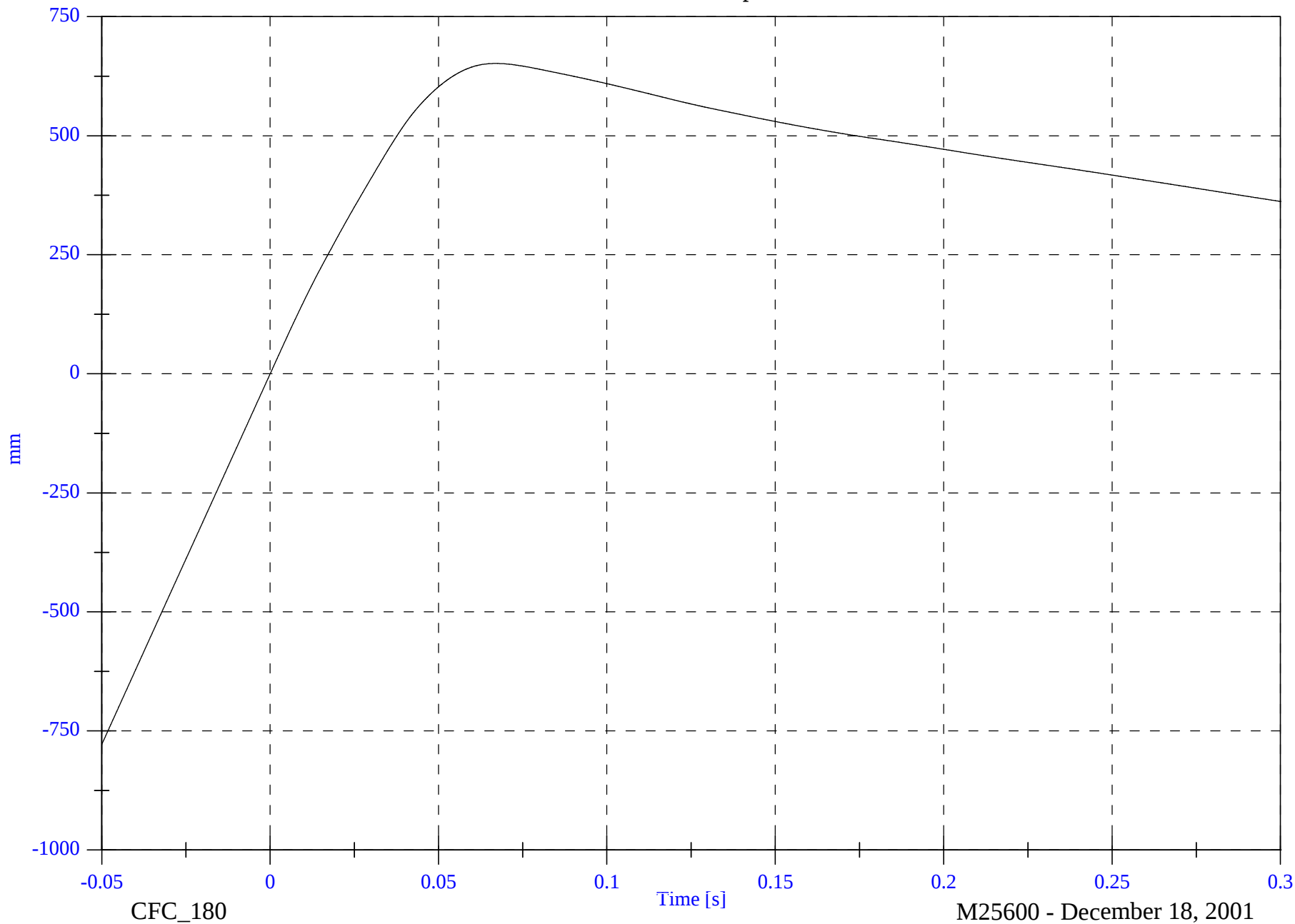
V Left Rear #1x Displacement

Max: 651.9 [mm] at 0.067 [s]

Min: -778.3 [mm] at -0.050 [s]

B-122

8642-NCAP-01



2002 NCAP Test 1-2002 Mitsubishi Eclipse

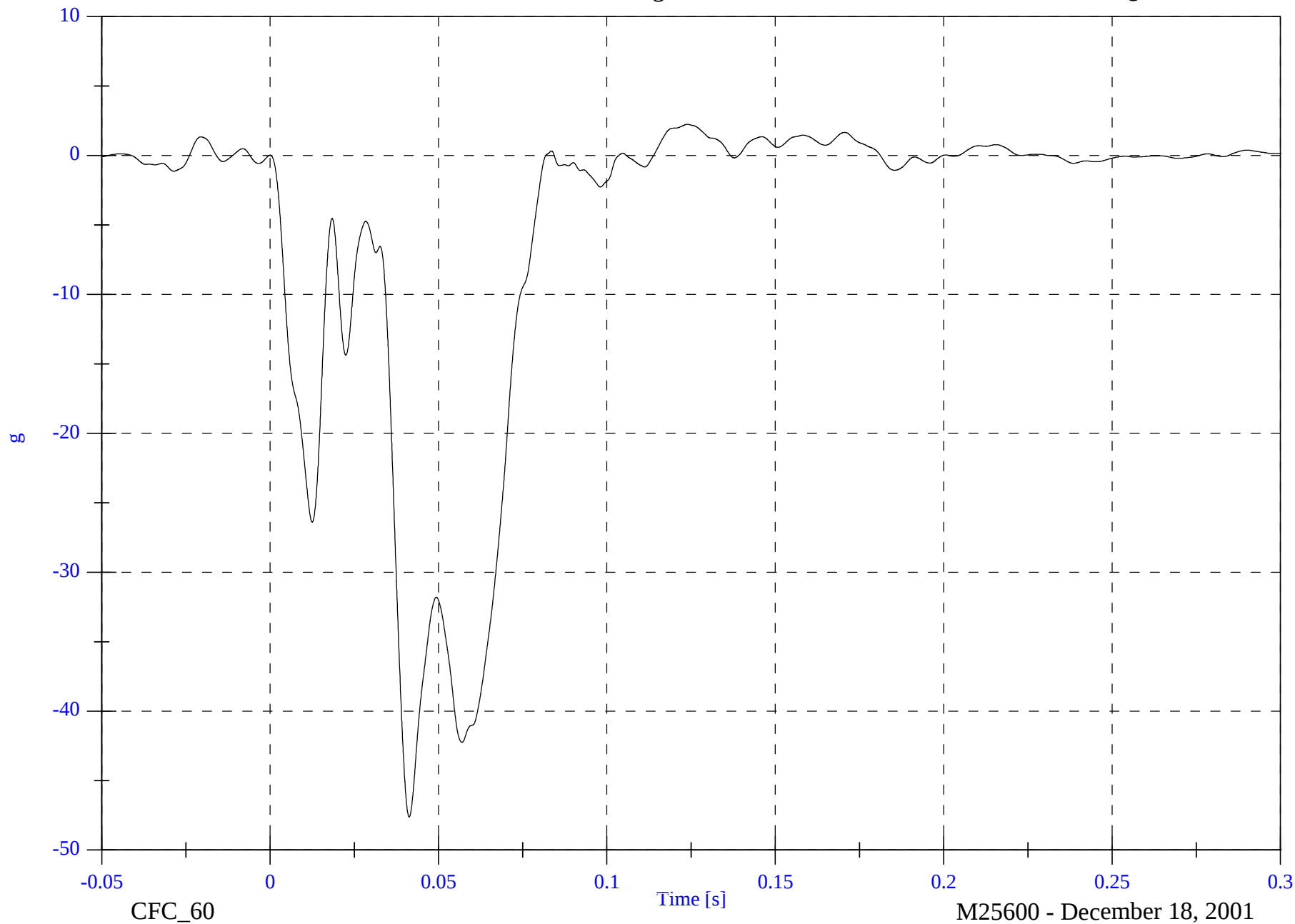
V Right Rear #2x

Max: 2.2 [g] at 0.124 [s]

Min: -47.6 [g] at 0.041 [s]

B-123

8642-NCAP-01



2002 NCAP Test 1-2002 Mitsubishi Eclipse

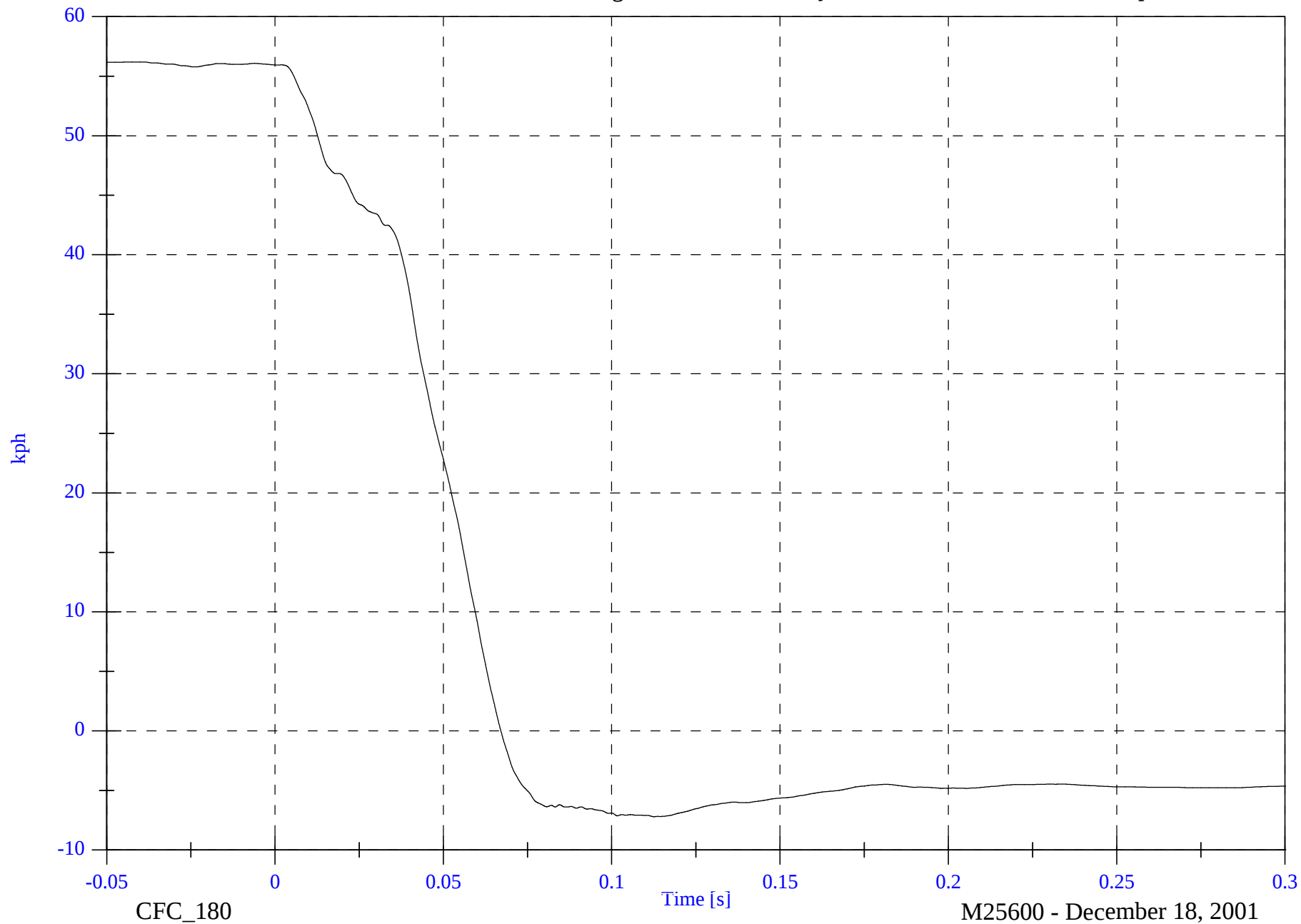
V Right Rear #2x Velocity

Max: 56.2 [kph] at -0.040 [s]

Min: -7.2 [kph] at 0.113 [s]

B-124

8642-NCAP-01



2002 NCAP Test 1-2002 Mitsubishi Eclipse

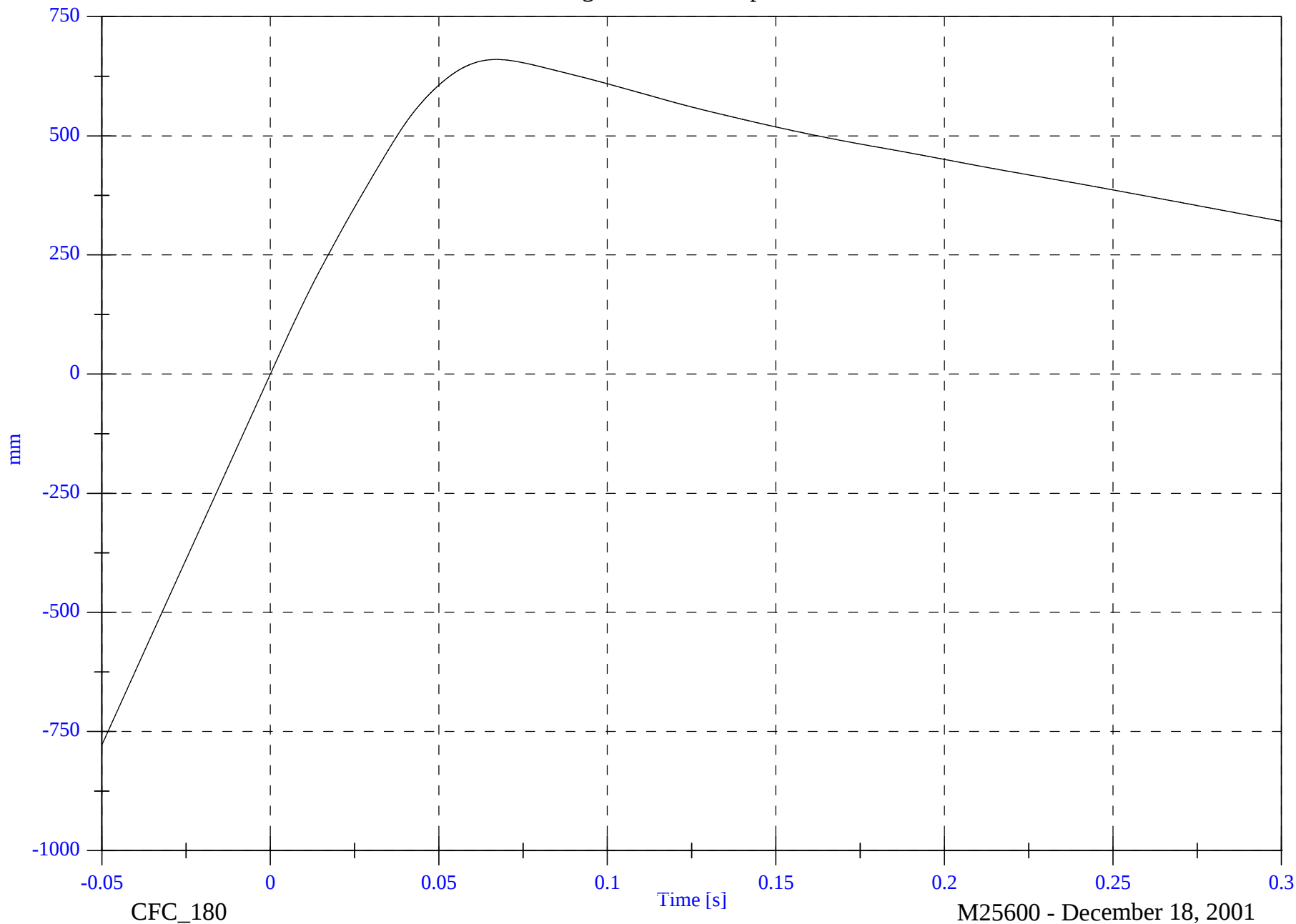
V Right Rear #2x Displacement

Max: 660.2 [mm] at 0.067 [s]

Min: -778.3 [mm] at -0.050 [s]

B-125

8642-NCAP-01



2002 NCAP Test 1-2002 Mitsubishi Eclipse

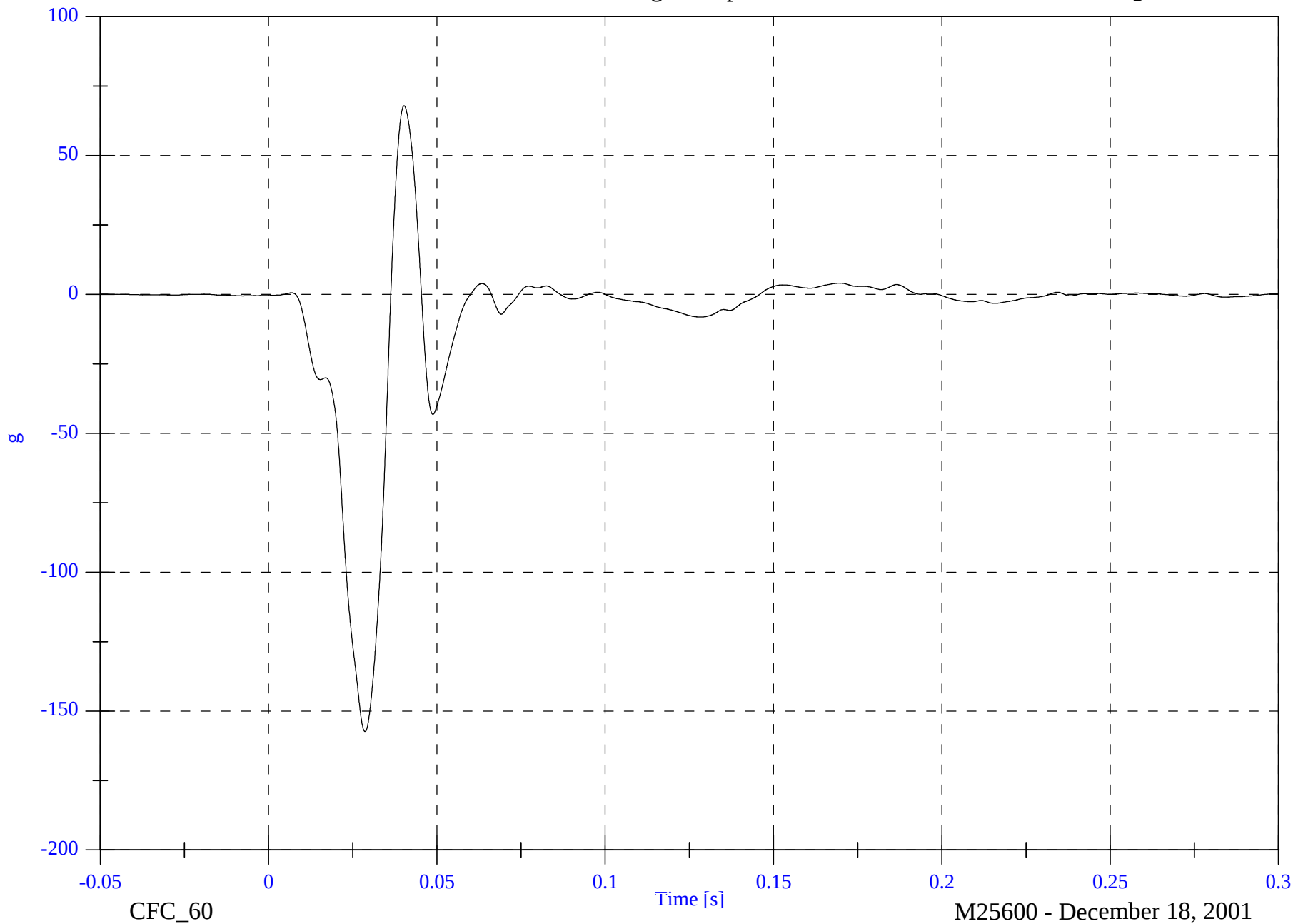
V Engine Top #3x

Max: 68.0 [g] at 0.040 [s]

Min: -157.4 [g] at 0.029 [s]

B-126

8642-NCAP-01

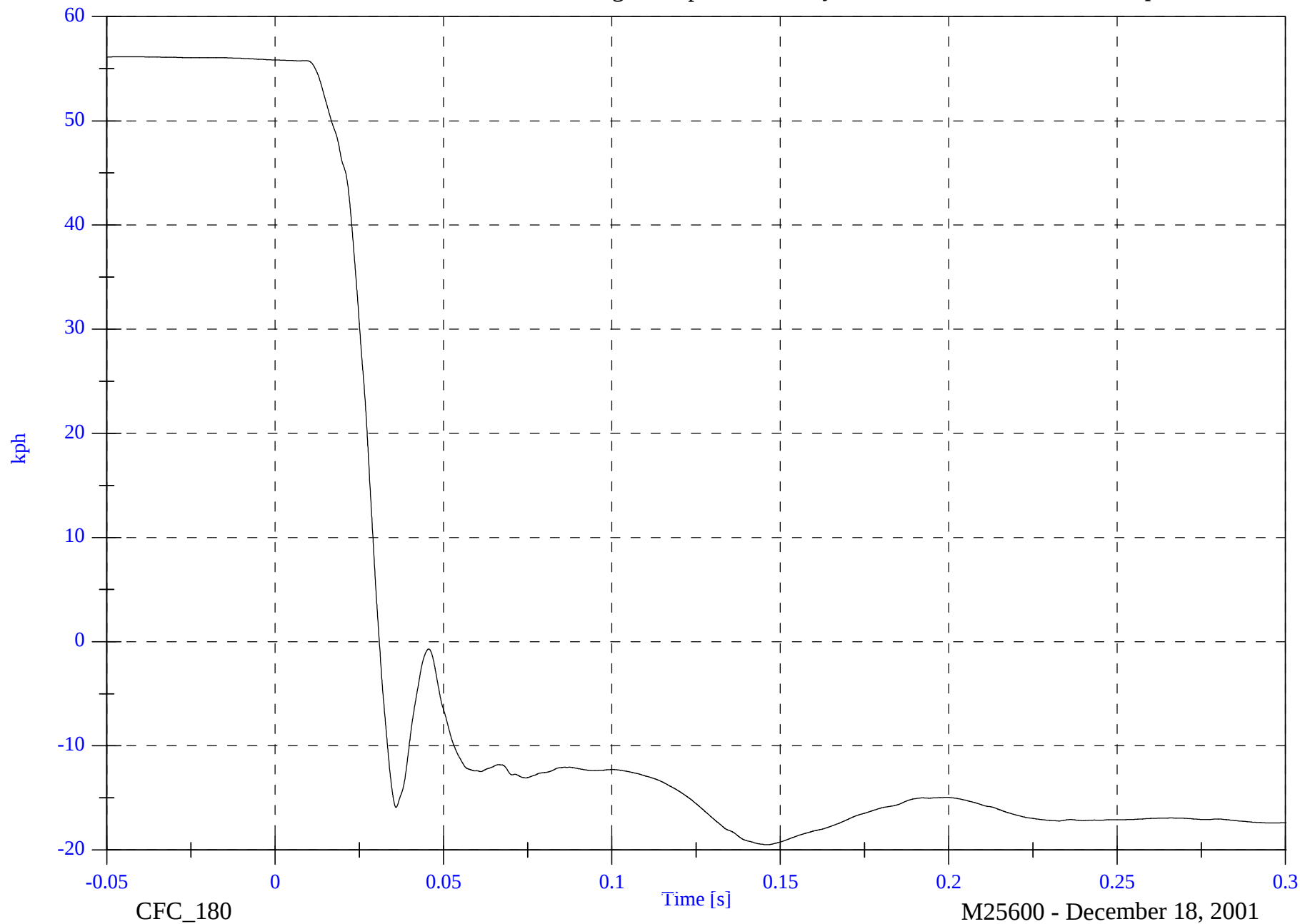


2002 NCAP Test 1-2002 Mitsubishi Eclipse

V Engine Top #3x Velocity

Max: 56.2 [kph] at -0.042 [s]

Min: -19.5 [kph] at 0.146 [s]



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2002 NCAP Test 1-2002 Mitsubishi Eclipse

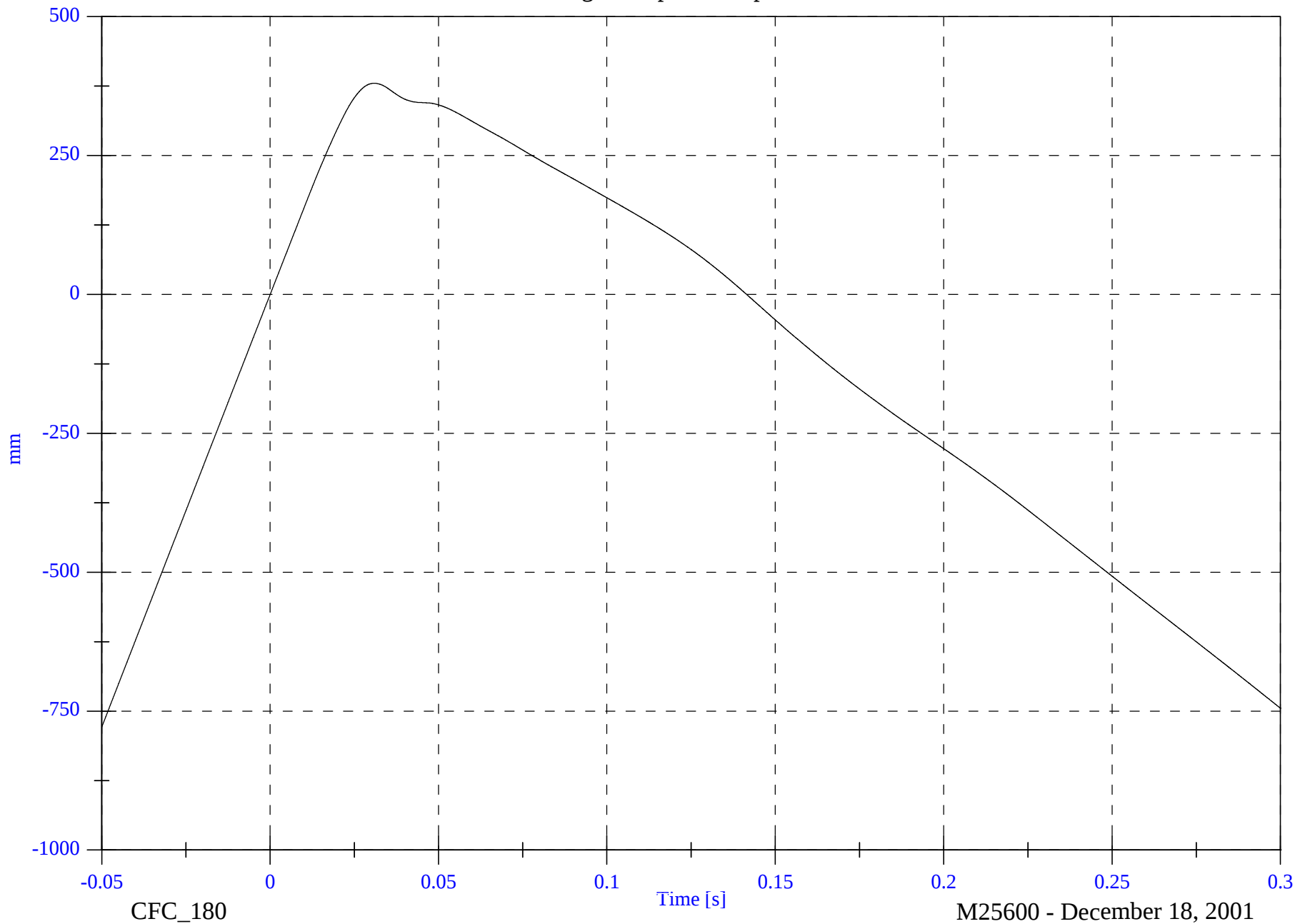
V Engine Top #3x Displacement

Max: 380.2 [mm] at 0.031 [s]

Min: -778.6 [mm] at -0.050 [s]

B-128

8642-NCAP-01

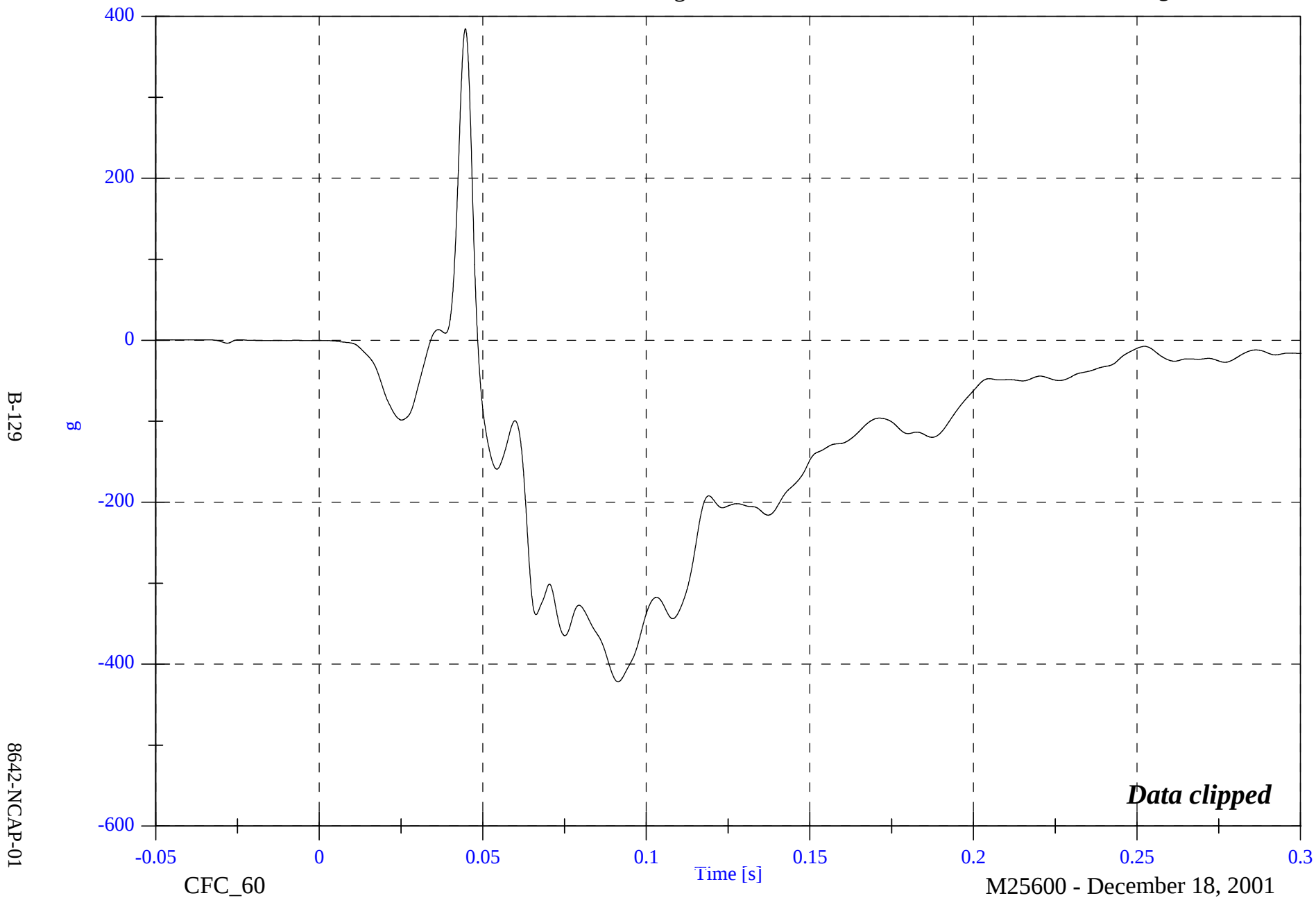


2002 NCAP Test 1-2002 Mitsubishi Eclipse

V Engine Bottom #4x

Max: 384.5 [g] at 0.045 [s]

Min: -421.9 [g] at 0.091 [s]

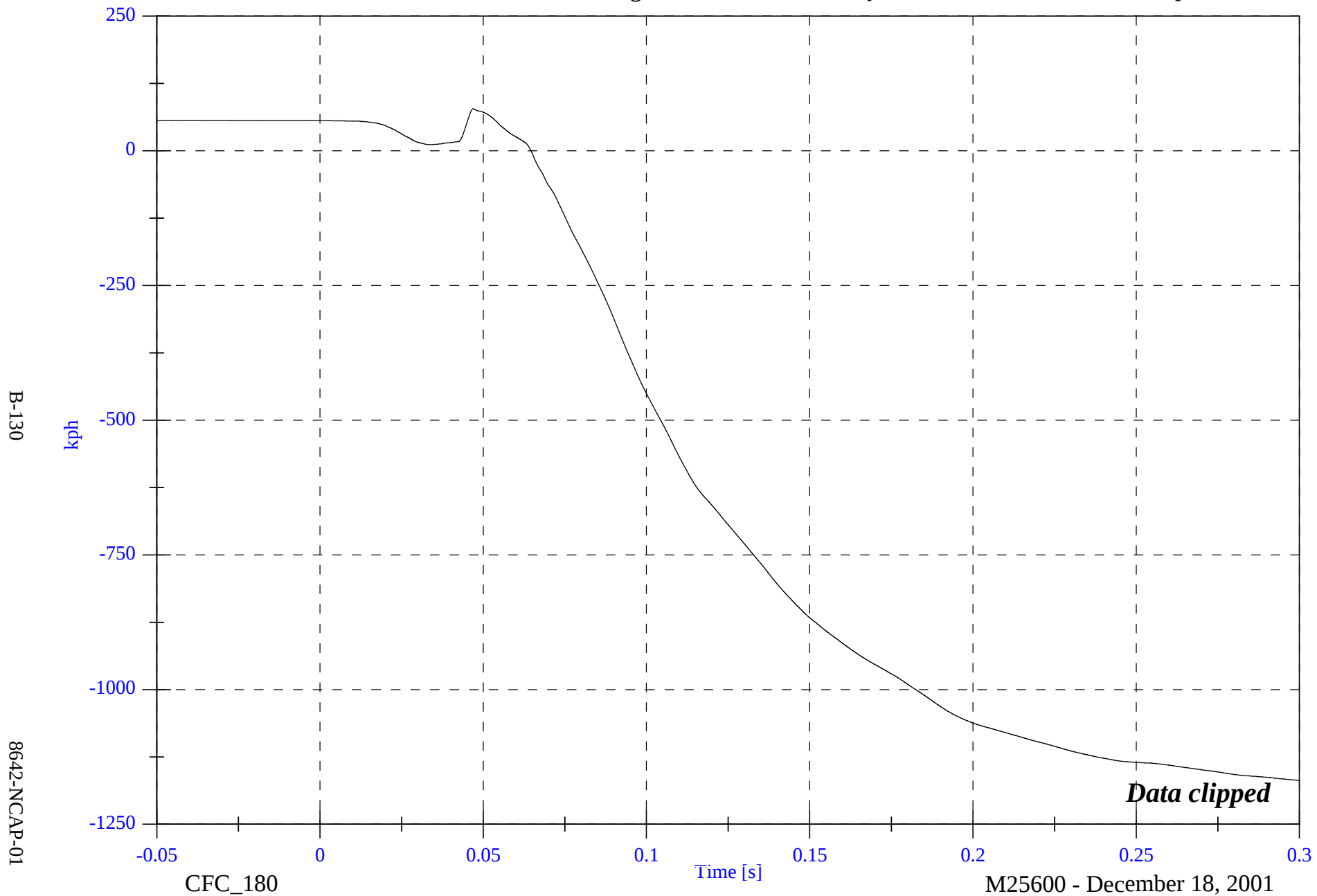


2002 NCAP Test 1-2002 Mitsubishi Eclipse

V Engine Bottom #4x Velocity

Max: 78.2 [kph] at 0.047 [s]

Min: -1168.9 [kph] at 0.300 [s]

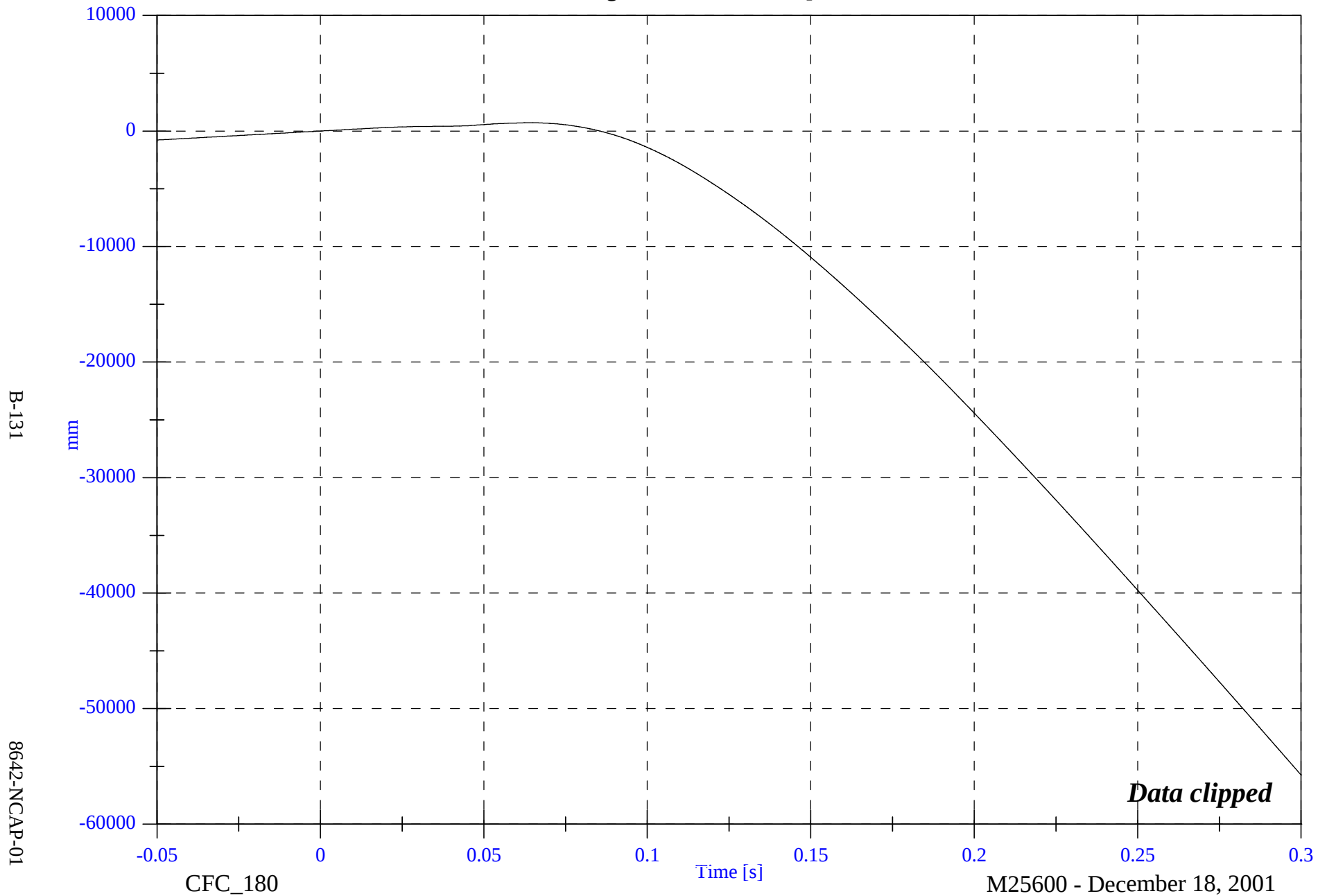


2002 NCAP Test 1-2002 Mitsubishi Eclipse

V Engine Bottom #4x Displacement

Max: 715.6 [mm] at 0.065 [s]

Min: -55738.0 [mm] at 0.300 [s]



2002 NCAP Test 1-2002 Mitsubishi Eclipse

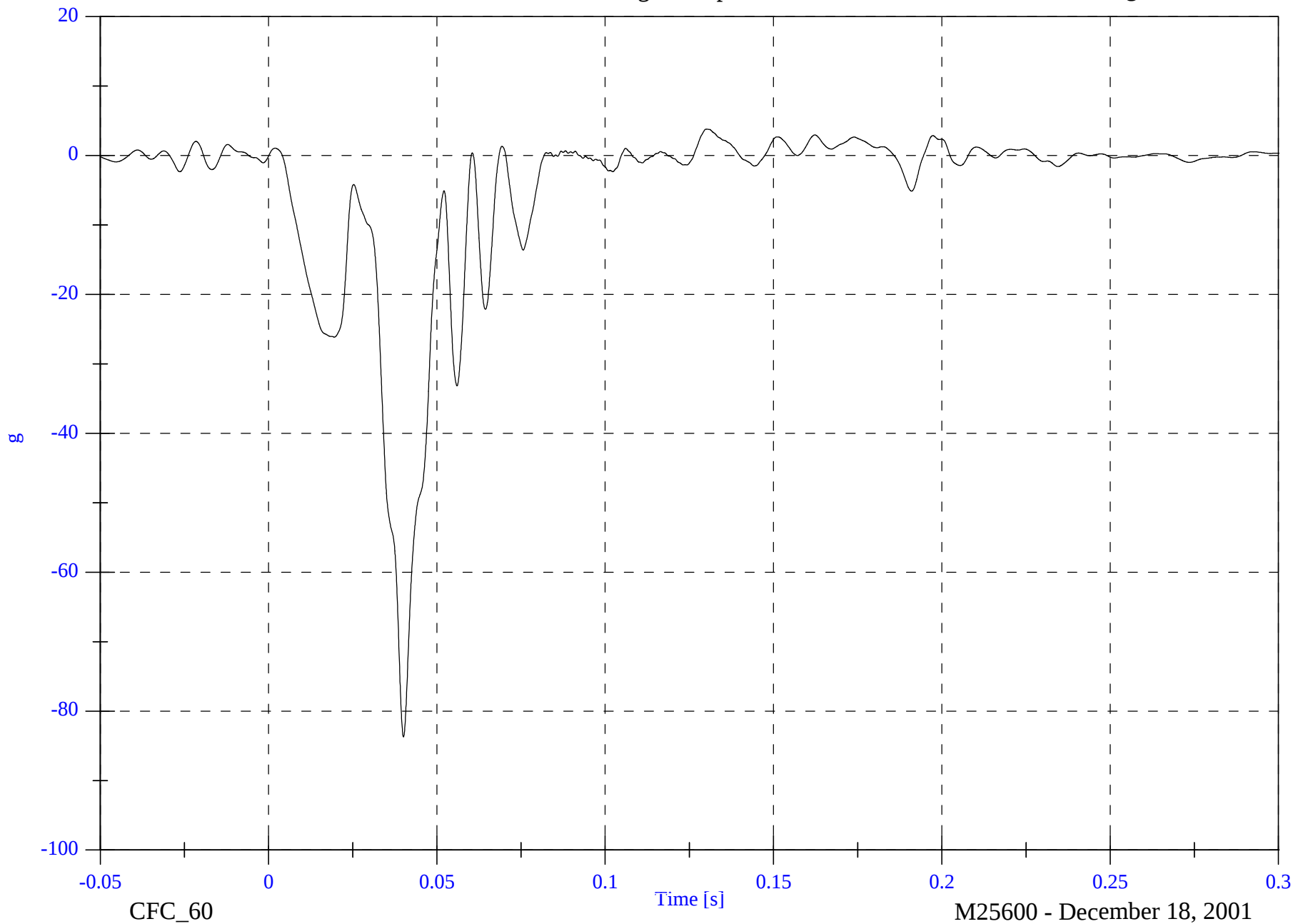
V Right Caliper #5x

Max: 3.8 [g] at 0.130 [s]

Min: -83.7 [g] at 0.040 [s]

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2002 NCAP Test 1-2002 Mitsubishi Eclipse

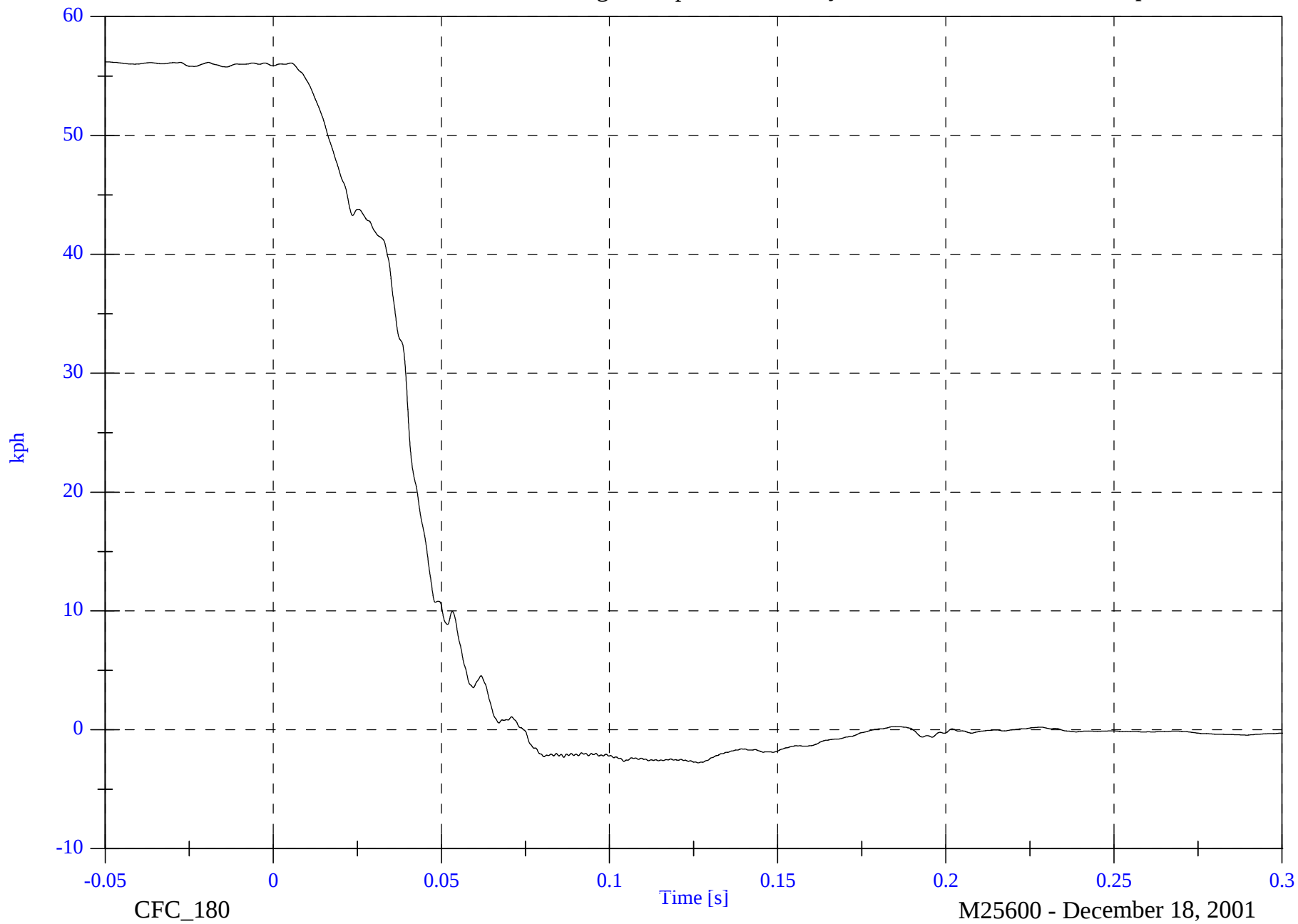
V Right Caliper #5x Velocity

Max: 56.2 [kph] at -0.050 [s]

Min: -2.8 [kph] at 0.126 [s]

B-133

8642-NCAP-01

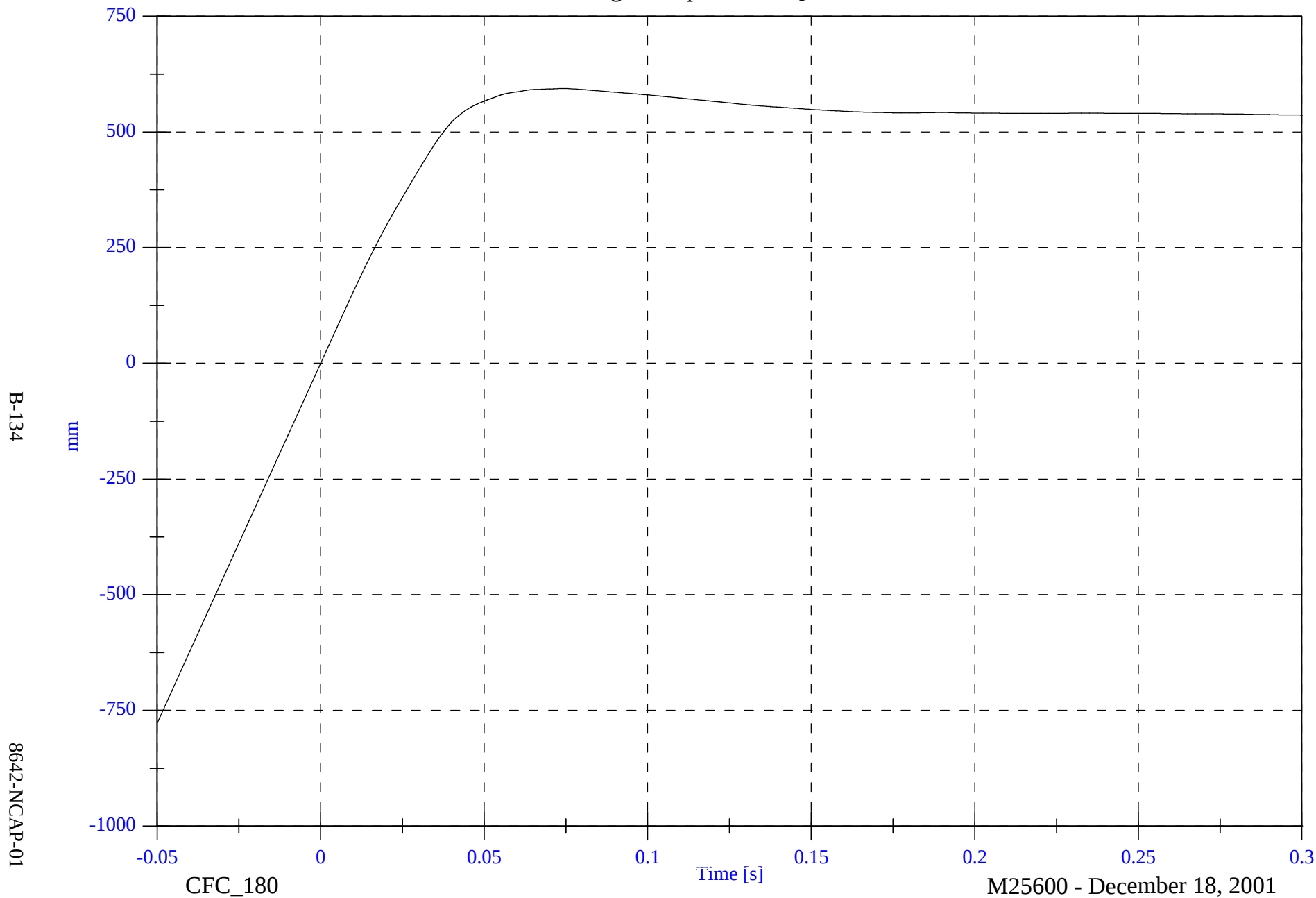


2002 NCAP Test 1-2002 Mitsubishi Eclipse

V Right Caliper #5x Displacement

Max: 593.6 [mm] at 0.075 [s]

Min: -778.1 [mm] at -0.050 [s]



2002 NCAP Test 1-2002 Mitsubishi Eclipse

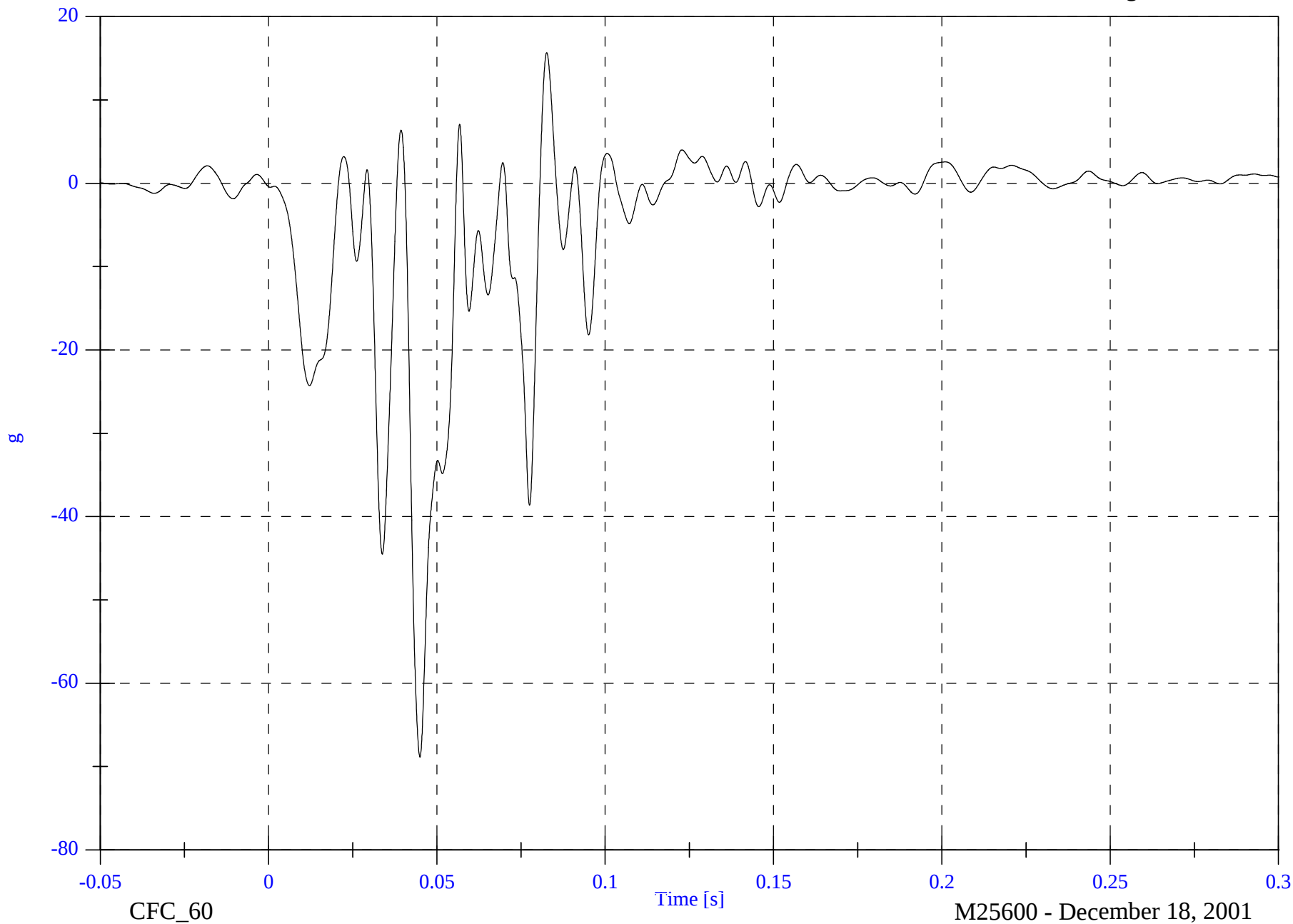
V Instrument Panel #6x

Max: 15.7 [g] at 0.083 [s]

Min: -68.8 [g] at 0.045 [s]

B-135

8642-NCAP-01

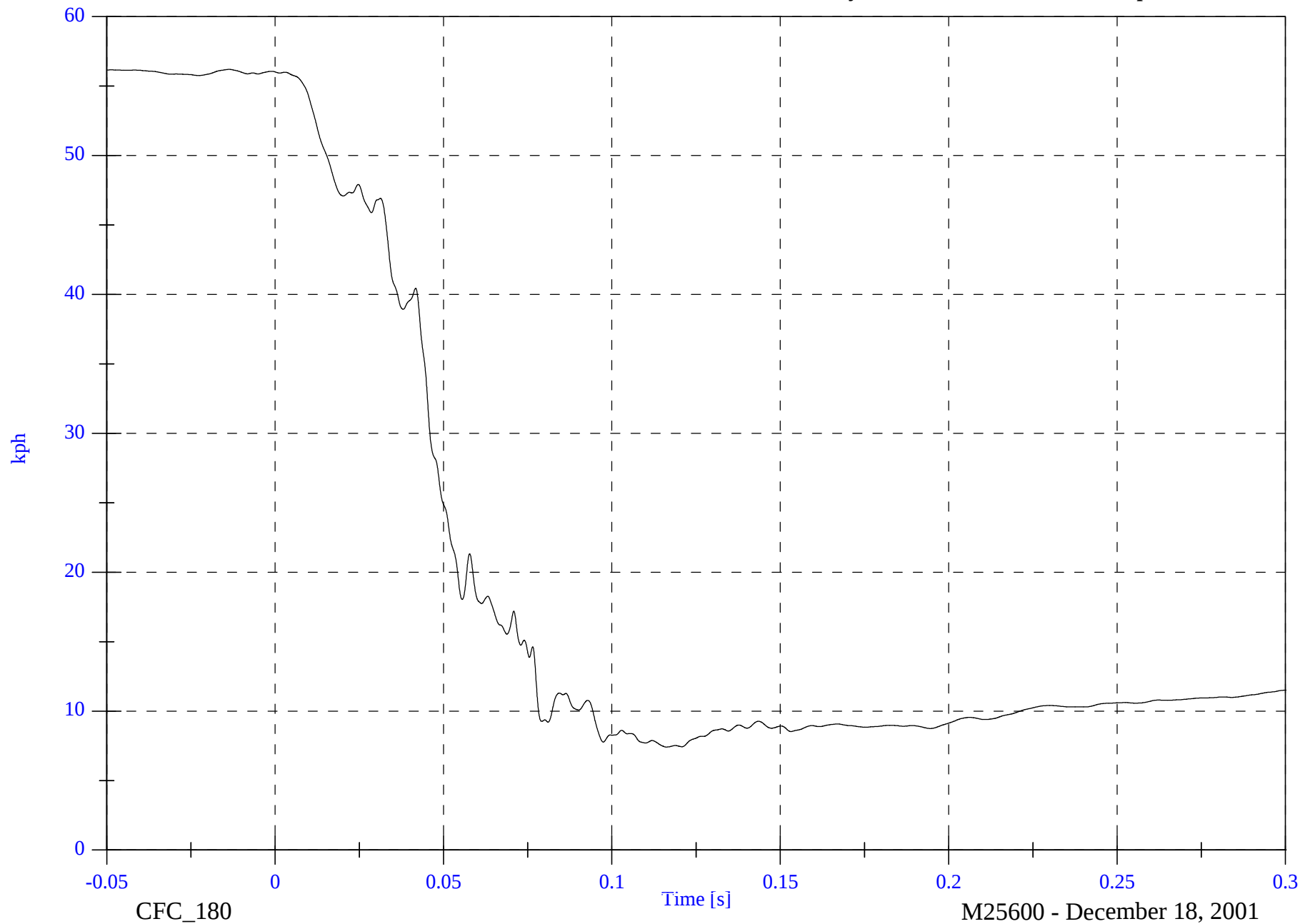


2002 NCAP Test 1-2002 Mitsubishi Eclipse

V Instrument Panel #6x Velocity

Max: 56.2 [kph] at -0.014 [s]

Min: 7.4 [kph] at 0.116 [s]



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2002 NCAP Test 1-2002 Mitsubishi Eclipse

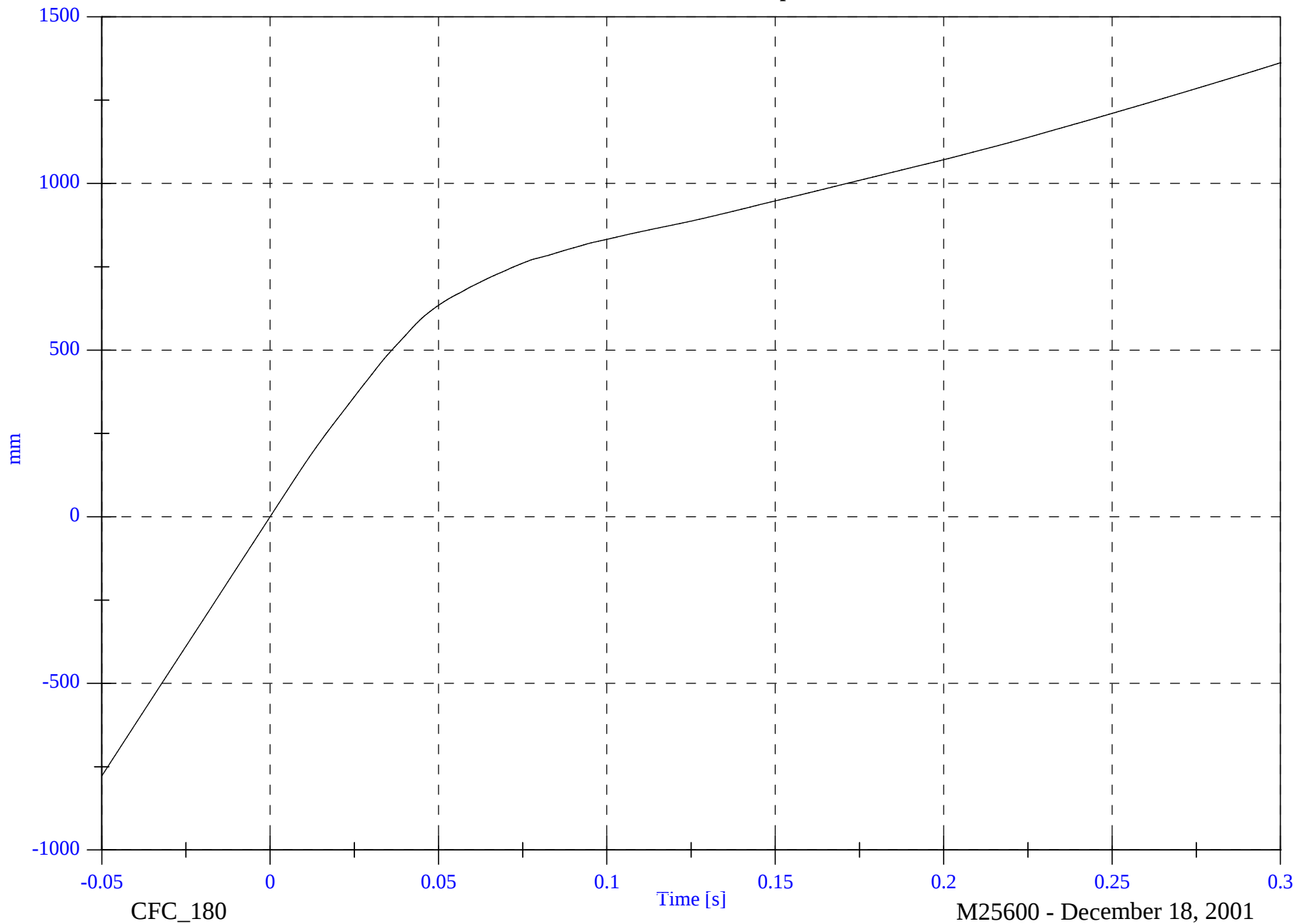
V Instrument Panel #6x Displacement

Max: 1361.7 [mm] at 0.300 [s]

Min: -777.9 [mm] at -0.050 [s]

B-137

8642-NCAP-01



2002 NCAP Test 1-2002 Mitsubishi Eclipse

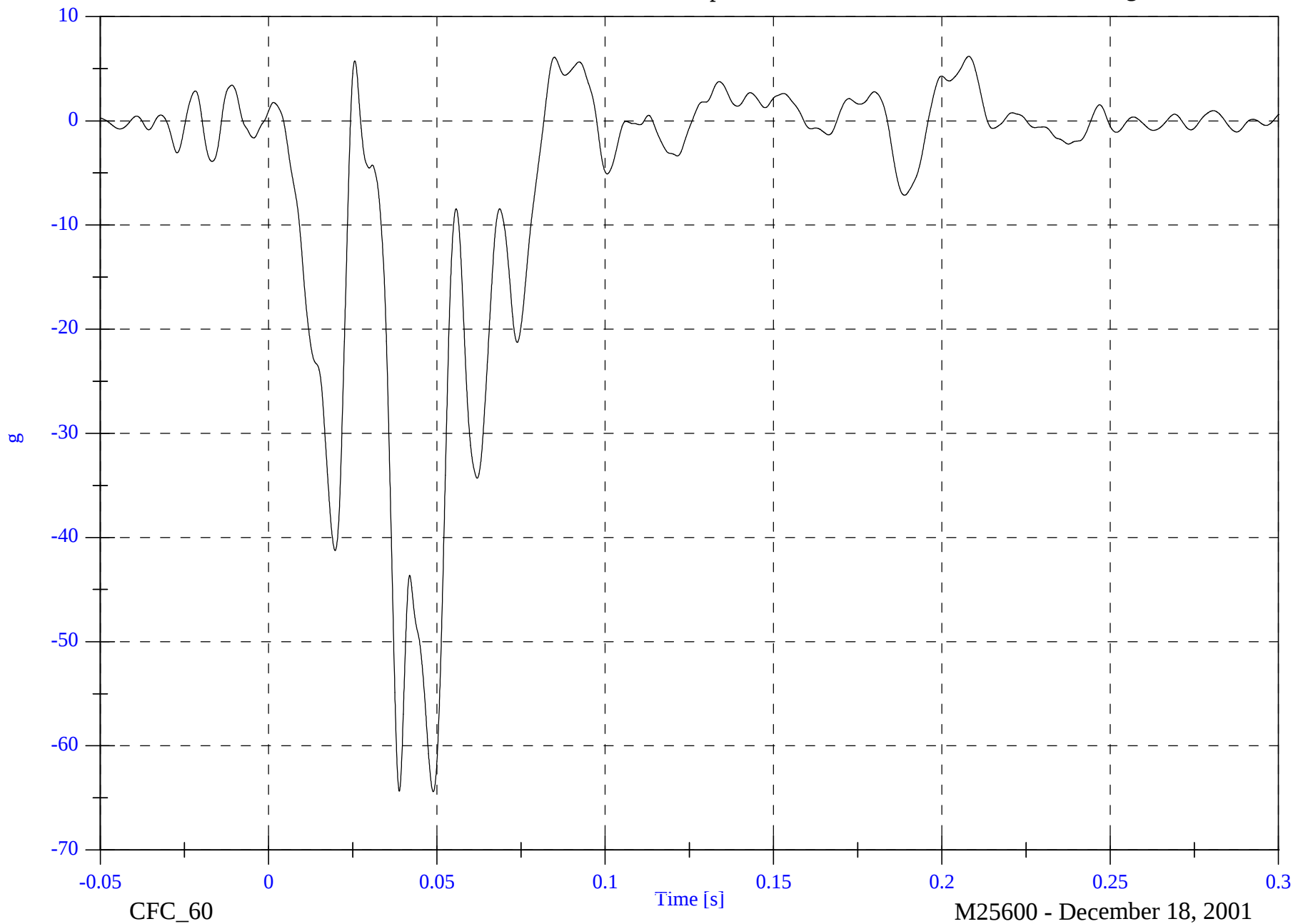
V Left Caliper #7x

Max: 6.2 [g] at 0.208 [s]

Min: -64.4 [g] at 0.049 [s]

B-138

8642-NCAP-01



2002 NCAP Test 1-2002 Mitsubishi Eclipse

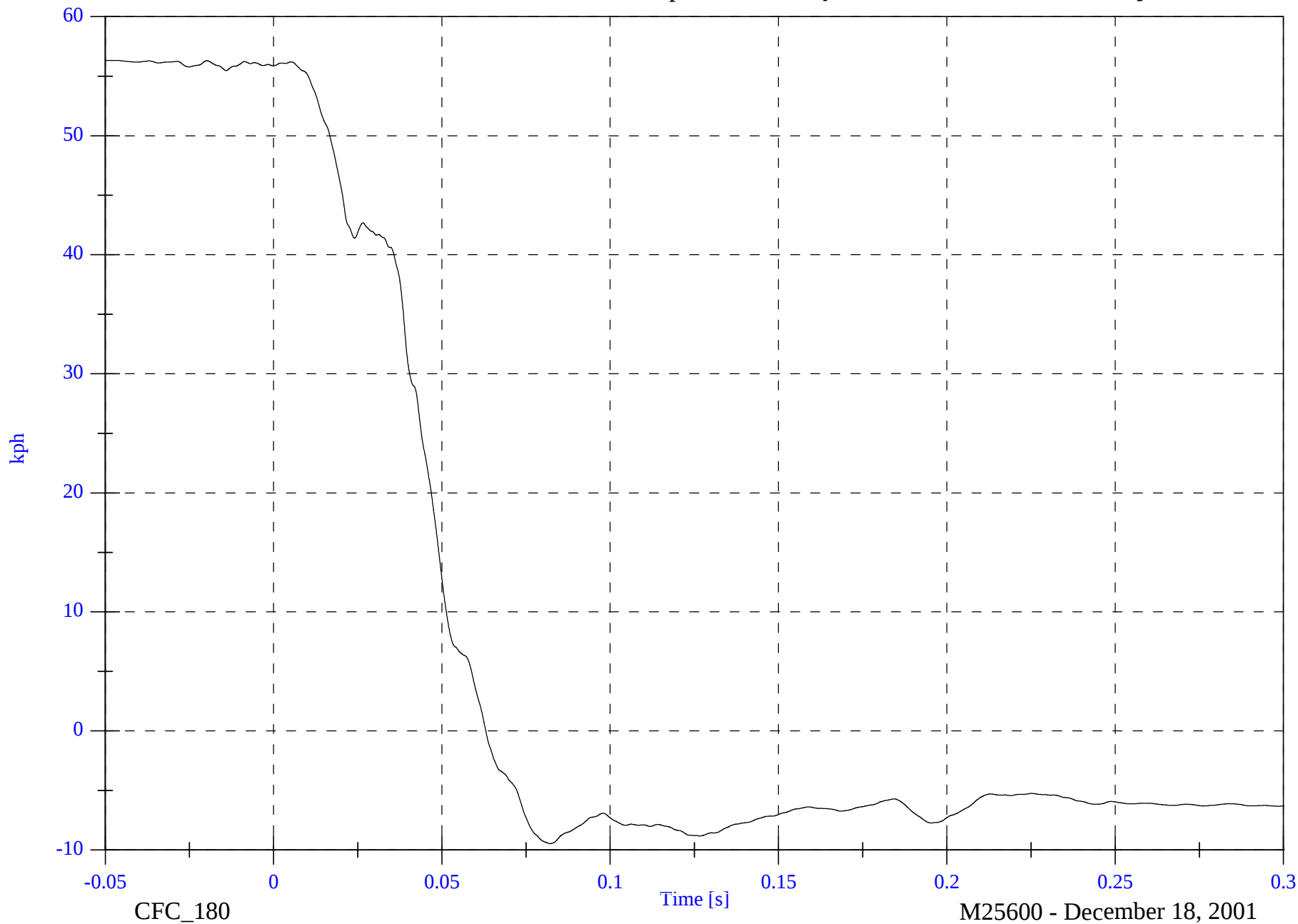
V Left Caliper #7x Velocity

Max: 56.3 [kph] at -0.048 [s]

Min: -9.5 [kph] at 0.082 [s]

B-139

8642-NCAP-01

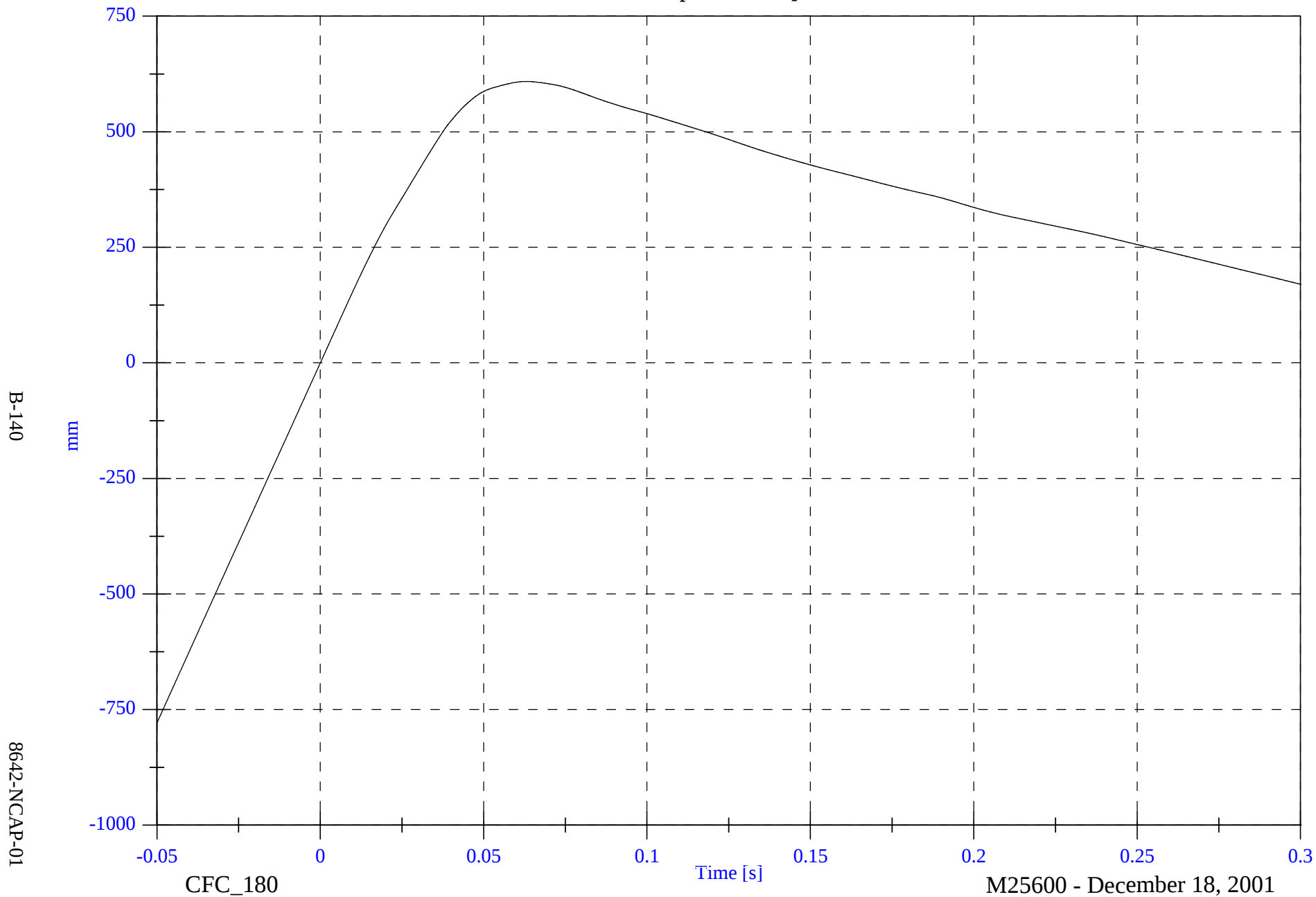


2002 NCAP Test 1-2002 Mitsubishi Eclipse

V Left Caliper #7x Displacement

Max: 608.8 [mm] at 0.063 [s]

Min: -778.9 [mm] at -0.050 [s]

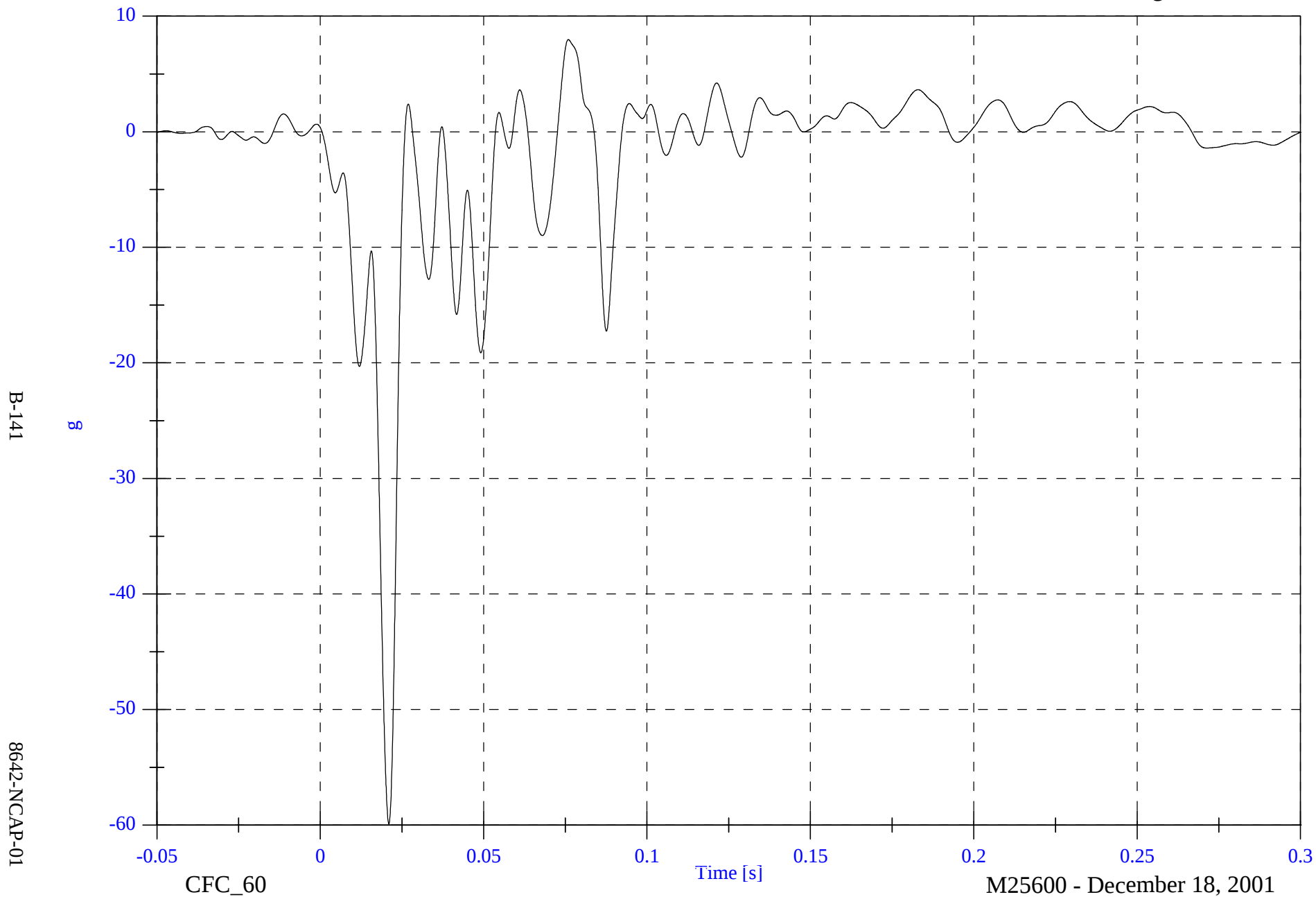


2002 NCAP Test 1-2002 Mitsubishi Eclipse

V Left Rear #8z

Max: 8.0 [g] at 0.076 [s]

Min: -59.9 [g] at 0.021 [s]

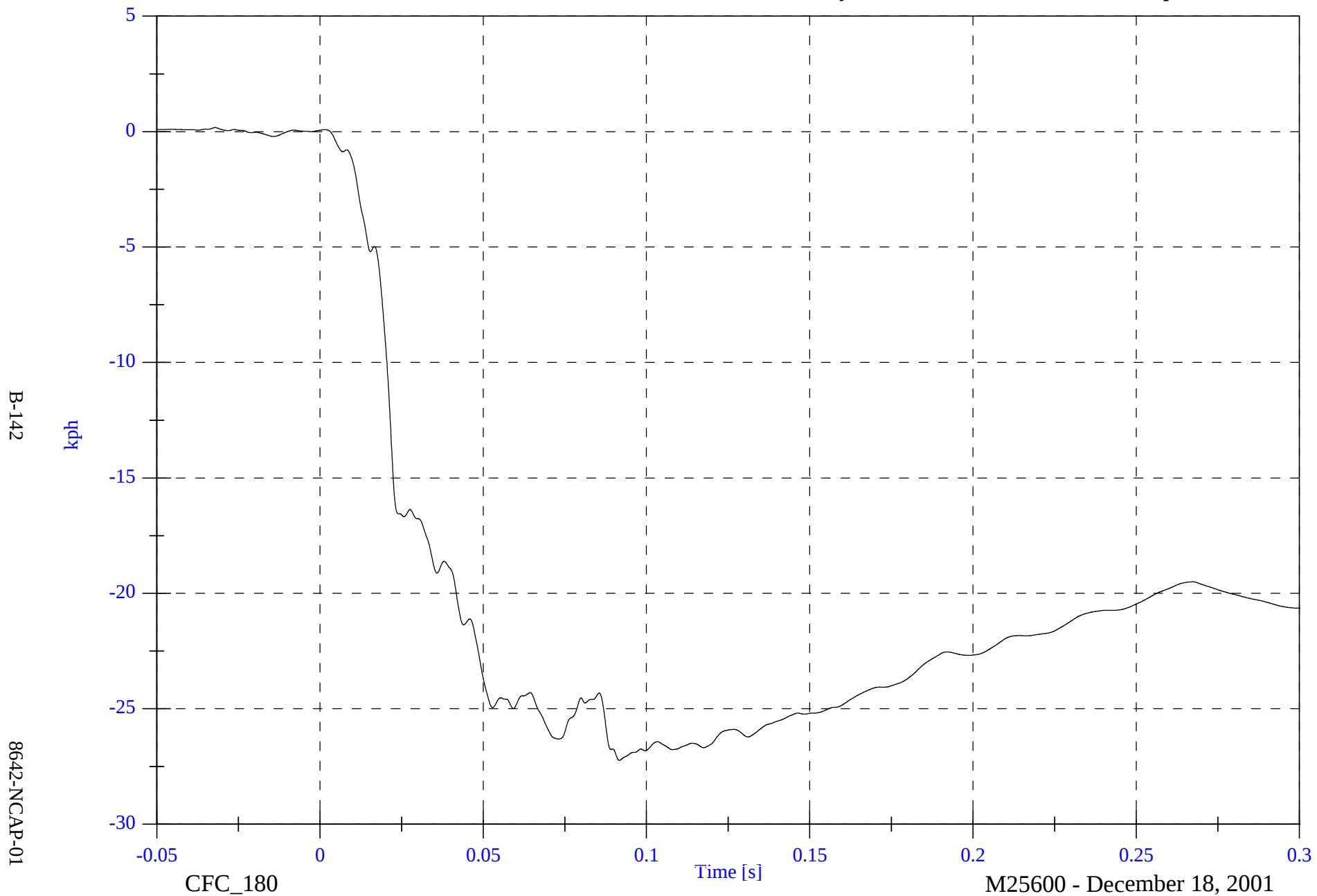


2002 NCAP Test 1-2002 Mitsubishi Eclipse

V Left Rear #8z Velocity

Max: 0.2 [kph] at -0.032 [s]

Min: -27.2 [kph] at 0.092 [s]



2002 NCAP Test 1-2002 Mitsubishi Eclipse

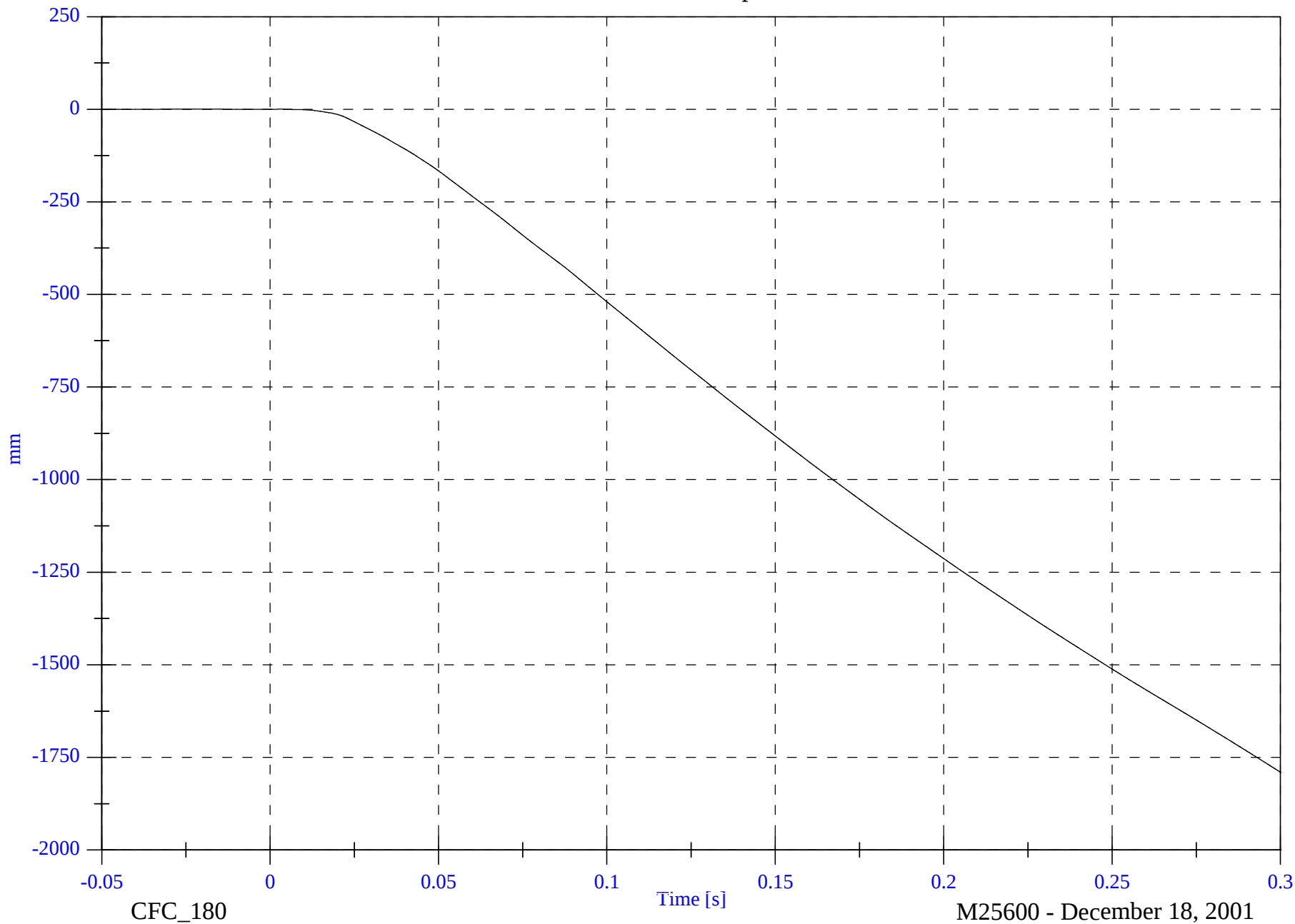
V Left Rear #8z Displacement

Max: 0.3 [mm] at -0.023 [s]

Min: -1789.8 [mm] at 0.300 [s]

B-143

8642-NCAP-01

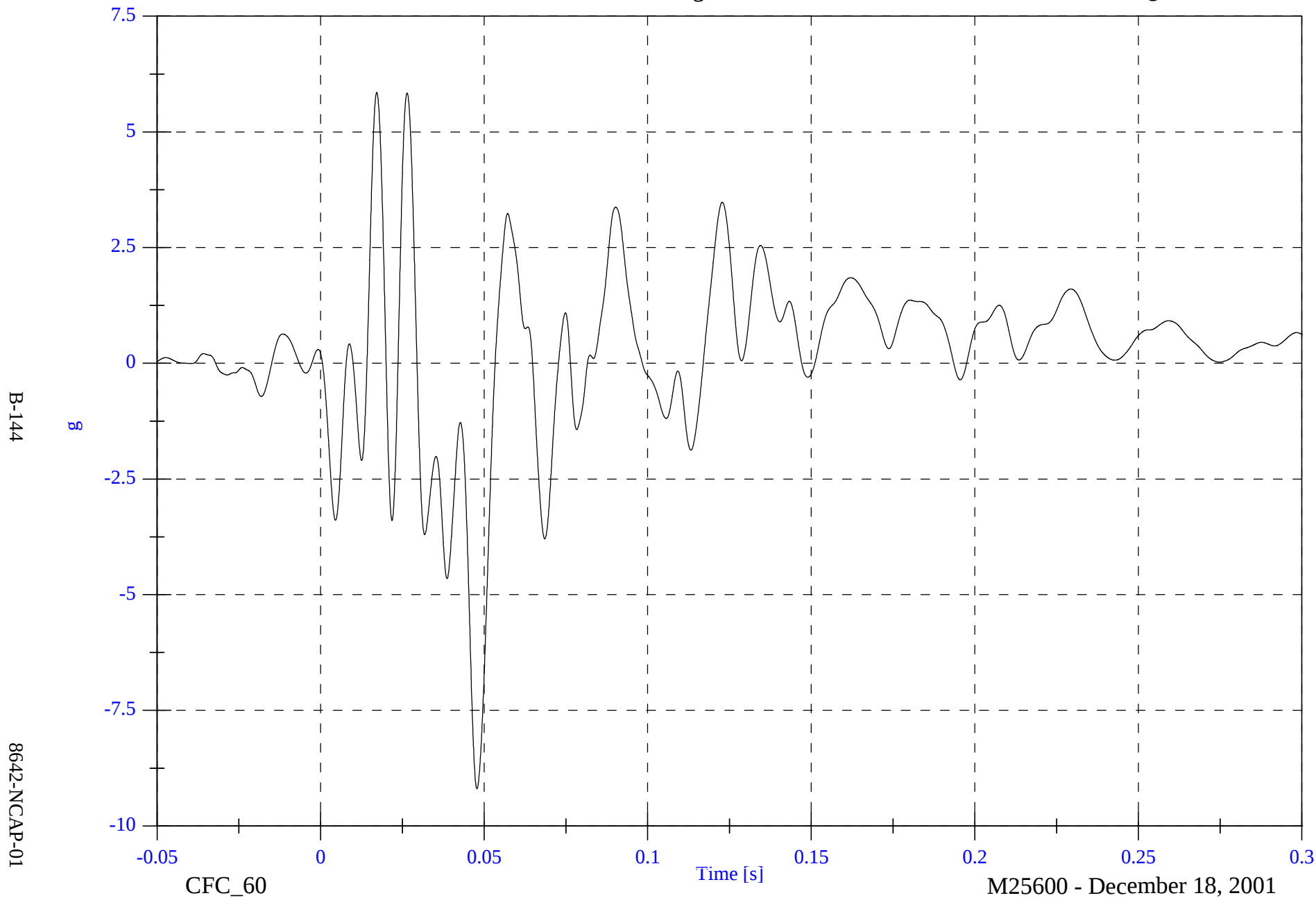


2002 NCAP Test 1-2002 Mitsubishi Eclipse

V Right Rear #9z

Max: 5.9 [g] at 0.017 [s]

Min: -9.2 [g] at 0.048 [s]



2002 NCAP Test 1-2002 Mitsubishi Eclipse

V Right Rear #9z Velocity

Max: 3.1 [kph] at 0.300 [s]

Min: -2.7 [kph] at 0.081 [s]

B-145

8642-NCAP-01

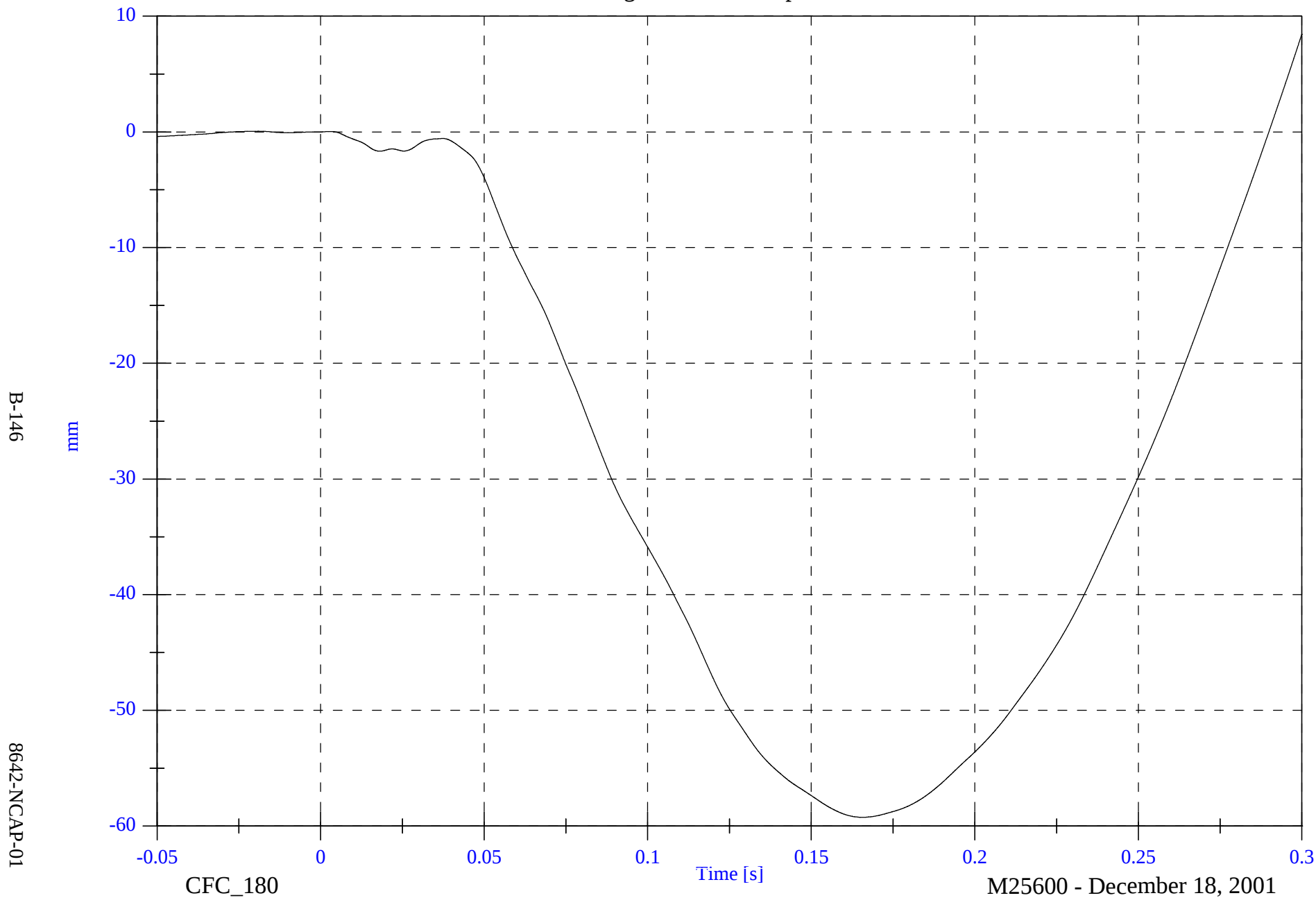


2002 NCAP Test 1-2002 Mitsubishi Eclipse

V Right Rear #9z Displacement

Max: 8.4 [mm] at 0.300 [s]

Min: -59.2 [mm] at 0.166 [s]

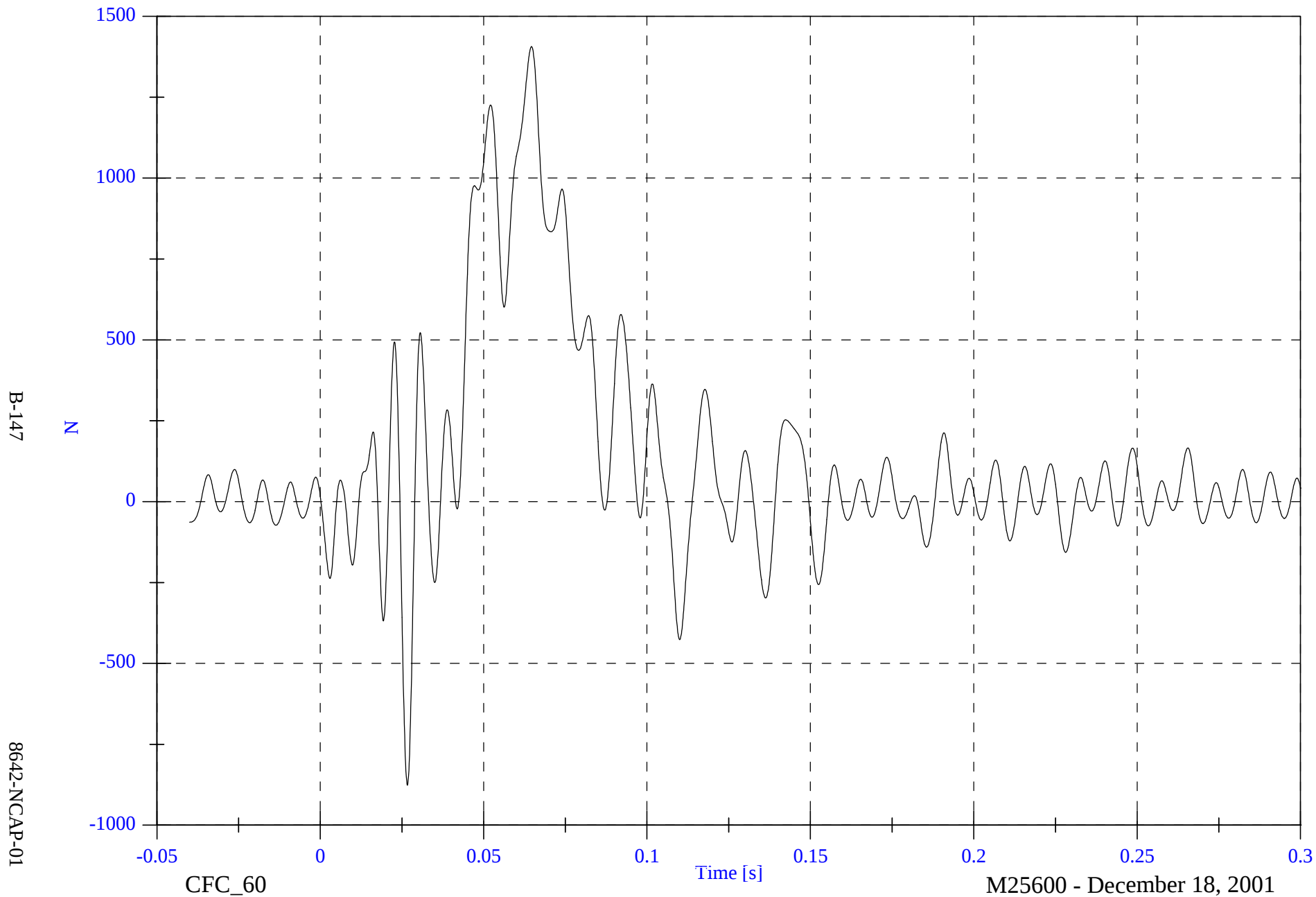


2002 NCAP Test 1 - 2002 Mitsubishi Eclipse

Barrier Load Cell A1 Fx

Max: 1406.1 [N] at 0.065 [s]

Min: -876.5 [N] at 0.027 [s]

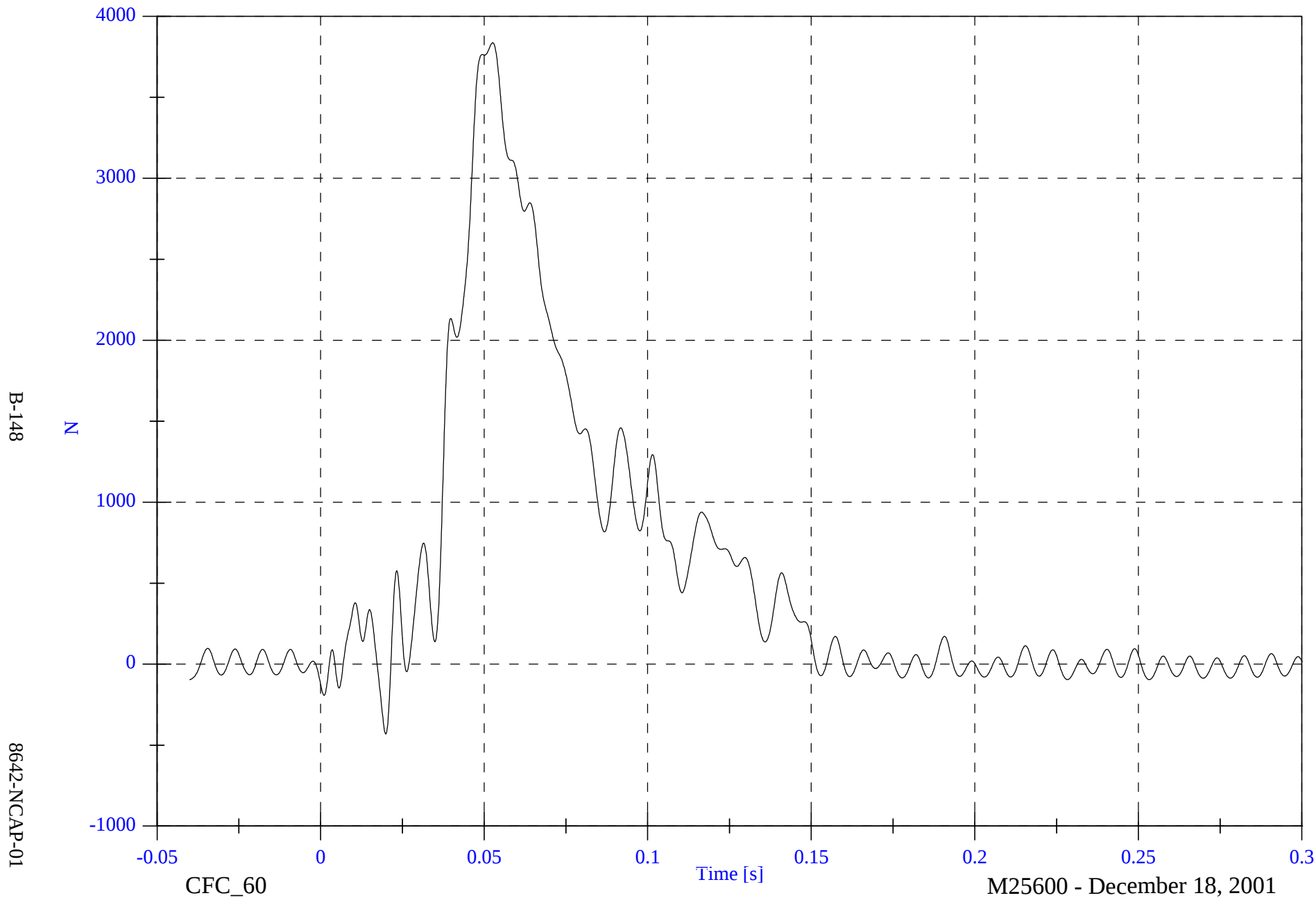


2002 NCAP Test 1 - 2002 Mitsubishi Eclipse

Barrier Load Cell A2 Fx

Max: 3836.3 [N] at 0.053 [s]

Min: -432.4 [N] at 0.020 [s]

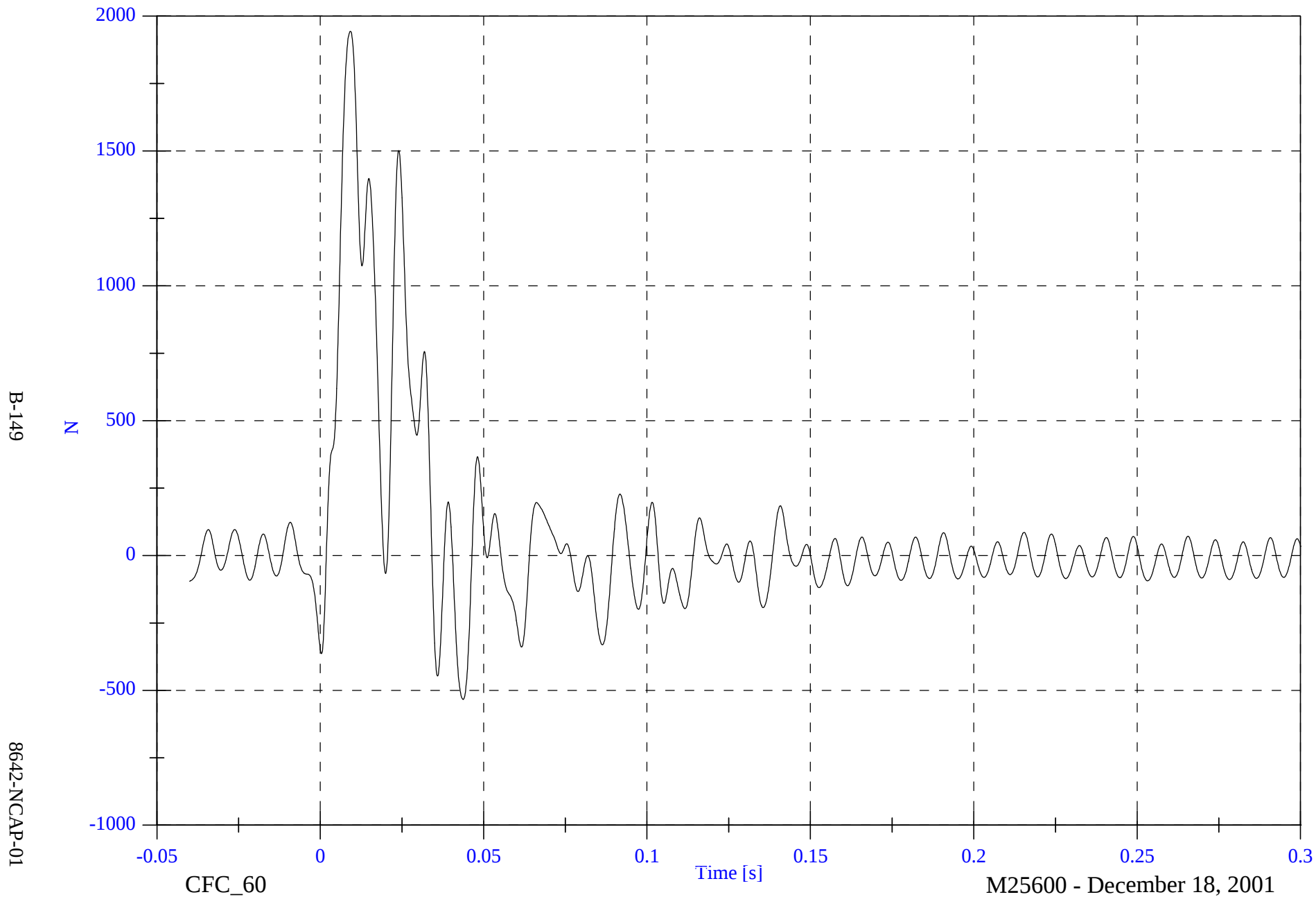


2002 NCAP Test 1 - 2002 Mitsubishi Eclipse

Barrier Load Cell A3 Fx

Max: 1944.3 [N] at 0.009 [s]

Min: -533.7 [N] at 0.044 [s]

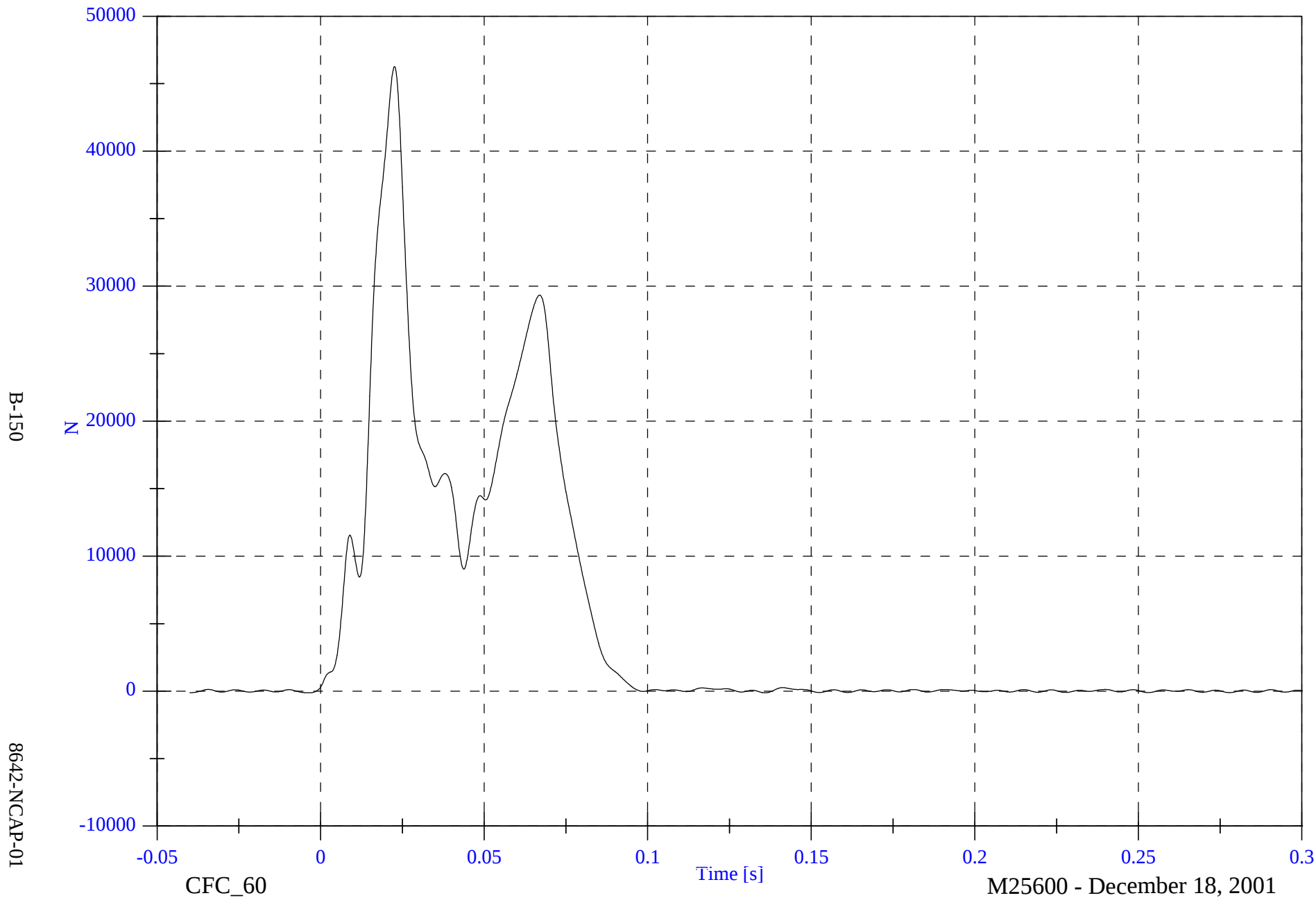


2002 NCAP Test 1 - 2002 Mitsubishi Eclipse

Barrier Load Cell A4 Fx

Max: 46268.3 [N] at 0.023 [s]

Min: -128.9 [N] at -0.040 [s]

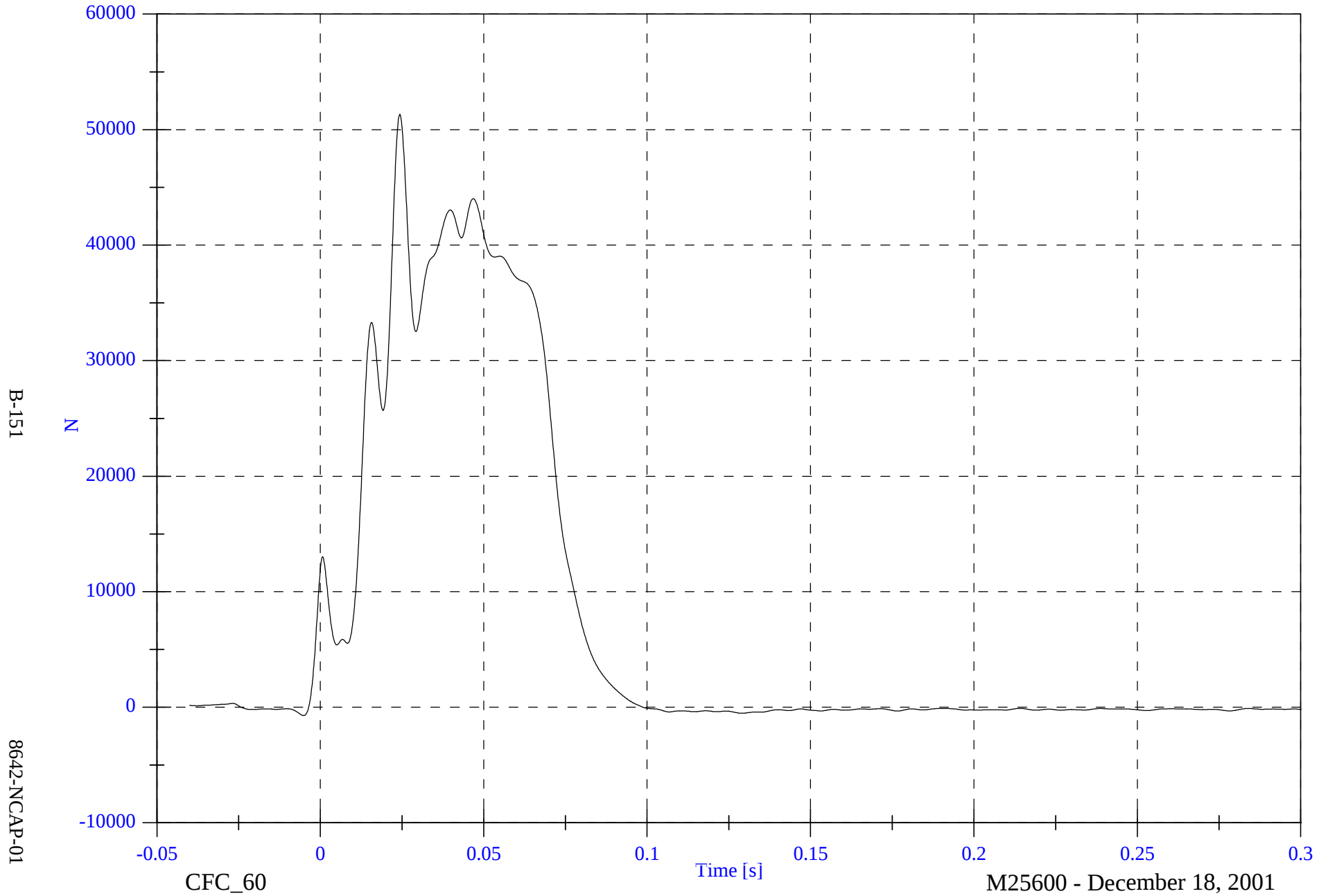


2002 NCAP Test 1 - 2002 Mitsubishi Eclipse

Barrier Load Cell A5 Fx

Max: 51326.6 [N] at 0.024 [s]

Min: -720.8 [N] at -0.005 [s]

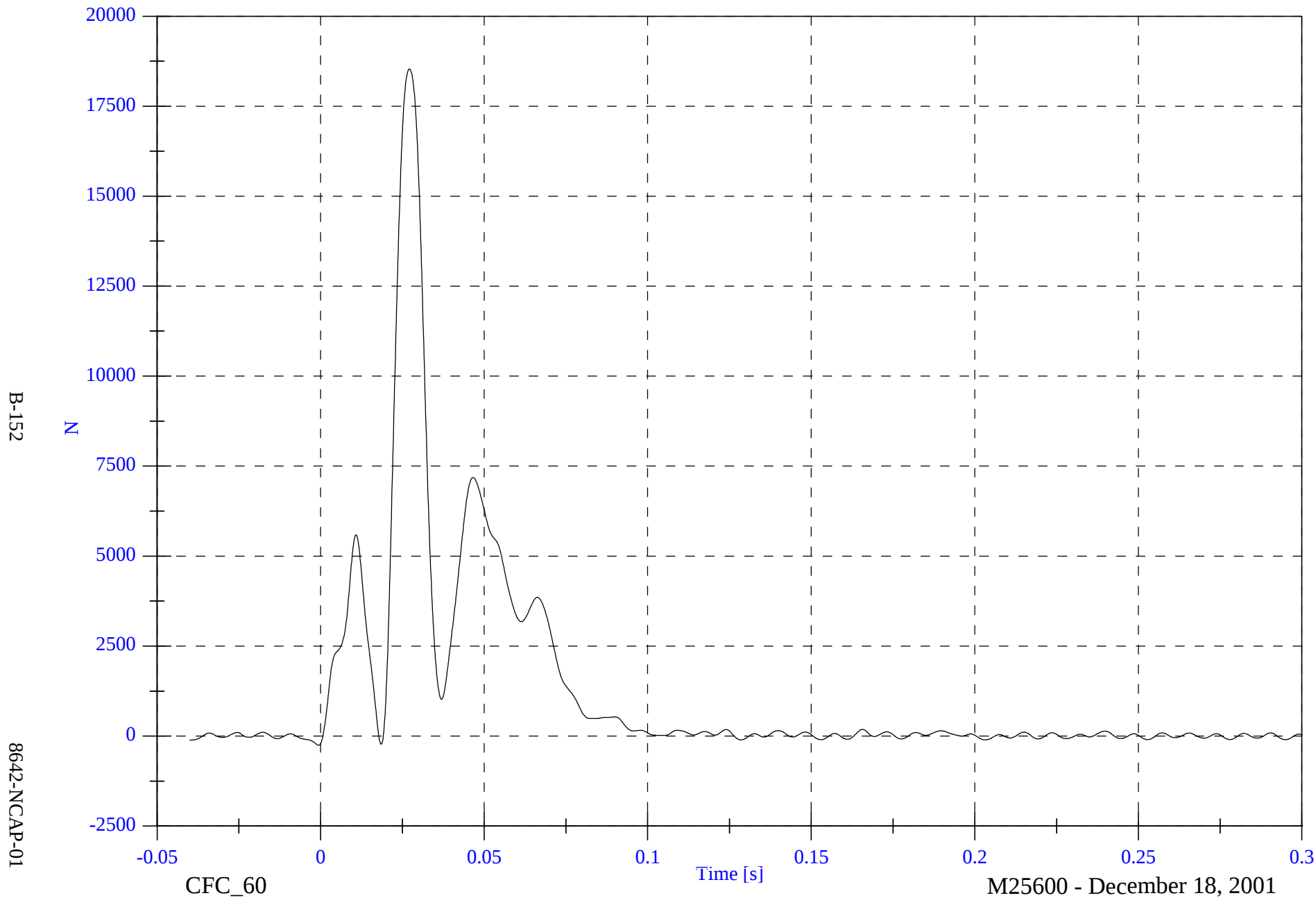


2002 NCAP Test 1 - 2002 Mitsubishi Eclipse

Barrier Load Cell A6 Fx

Max: 18534.4 [N] at 0.027 [s]

Min: -254.4 [N] at -0.001 [s]

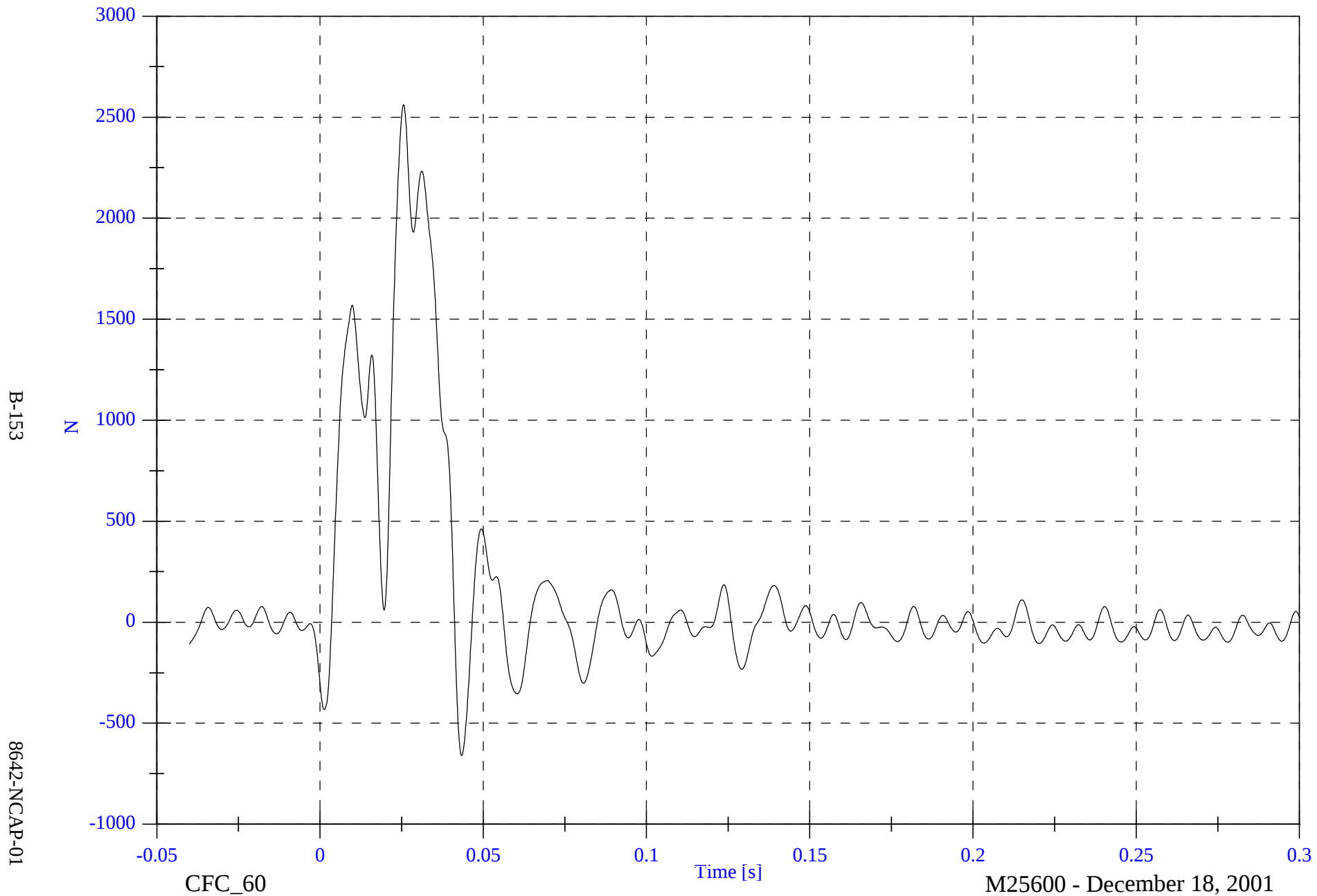


2002 NCAP Test 1 - 2002 Mitsubishi Eclipse

Barrier Load Cell A7 Fx

Max: 2561.8 [N] at 0.026 [s]

Min: -659.7 [N] at 0.043 [s]

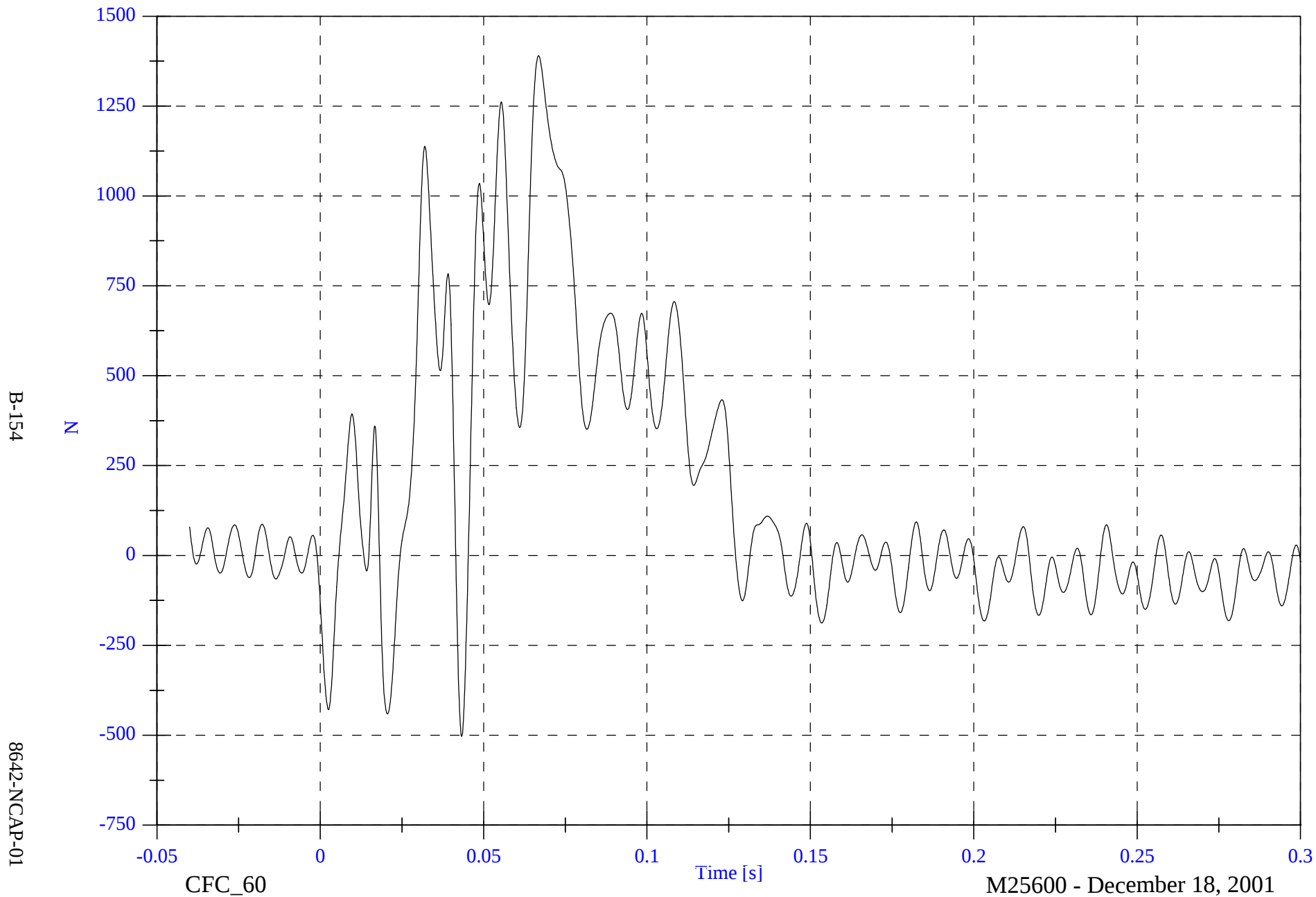


2002 NCAP Test 1 - 2002 Mitsubishi Eclipse

Barrier Load Cell A8 Fx

Max: 1390.2 [N] at 0.067 [s]

Min: -503.4 [N] at 0.043 [s]

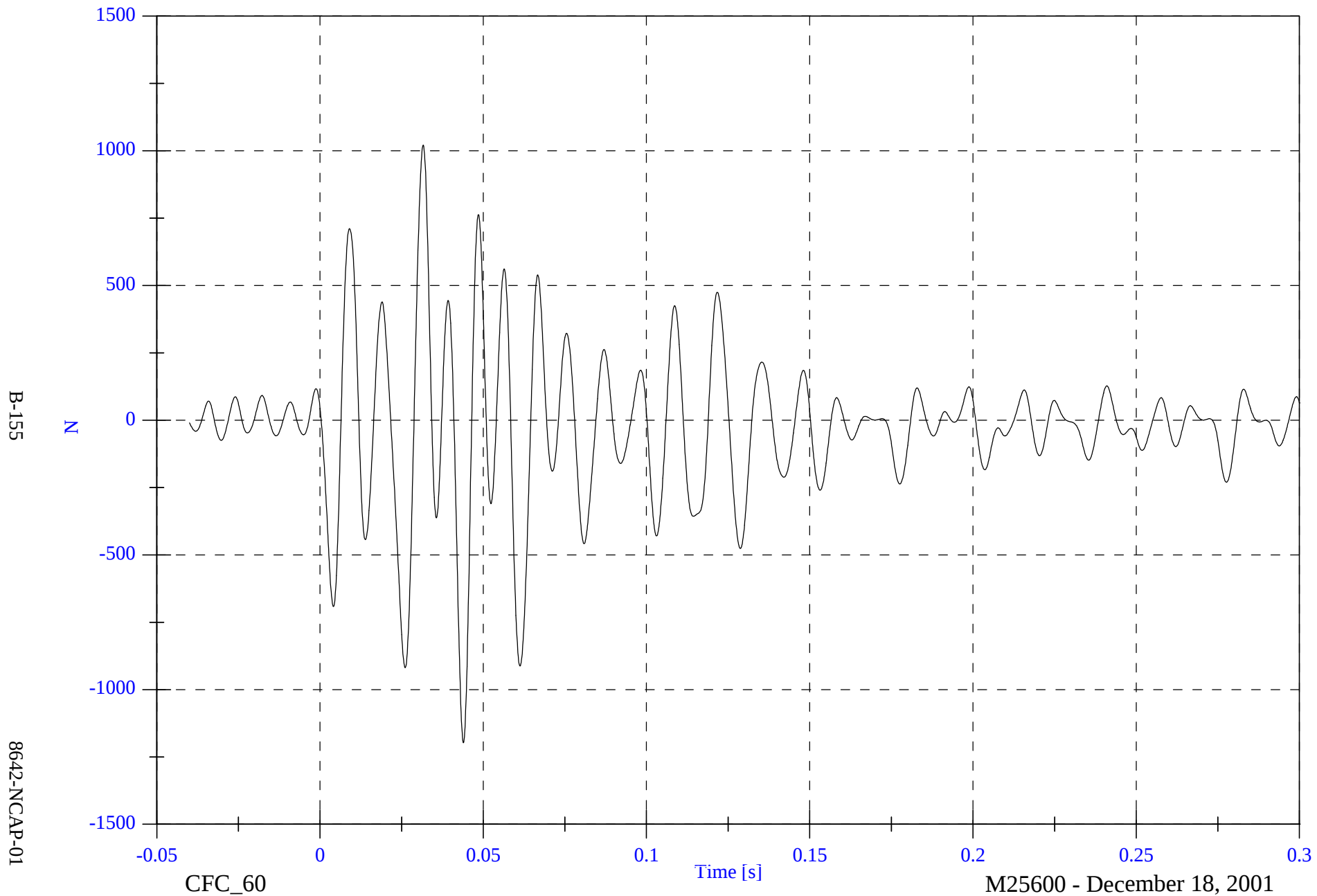


2002 NCAP Test 1 - 2002 Mitsubishi Eclipse

Barrier Load Cell A9 Fx

Max: 1021.2 [N] at 0.032 [s]

Min: -1197.7 [N] at 0.044 [s]

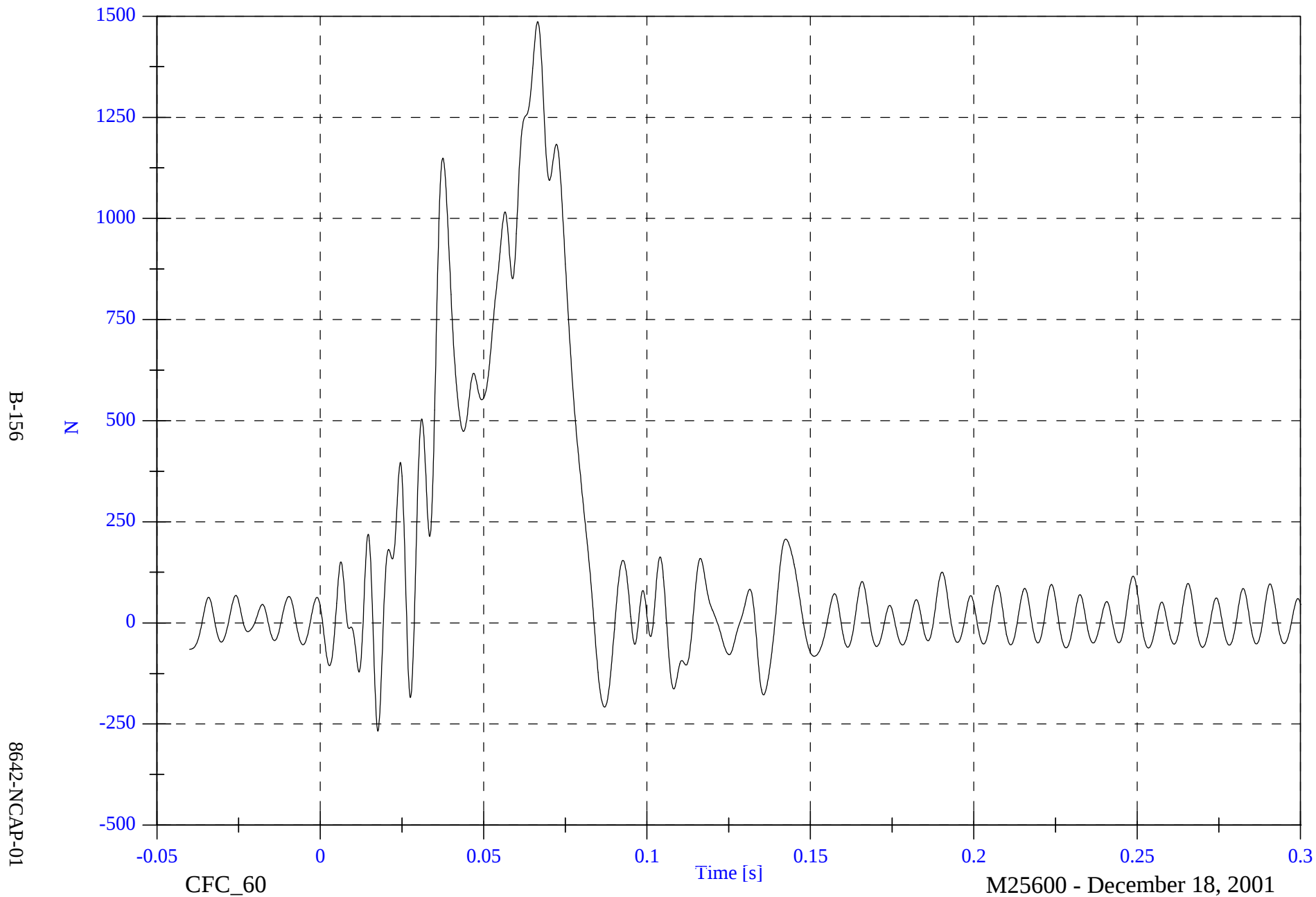


2002 NCAP Test 1 - 2002 Mitsubishi Eclipse

Barrier Load Cell B1 Fx

Max: 1486.8 [N] at 0.066 [s]

Min: -267.9 [N] at 0.018 [s]

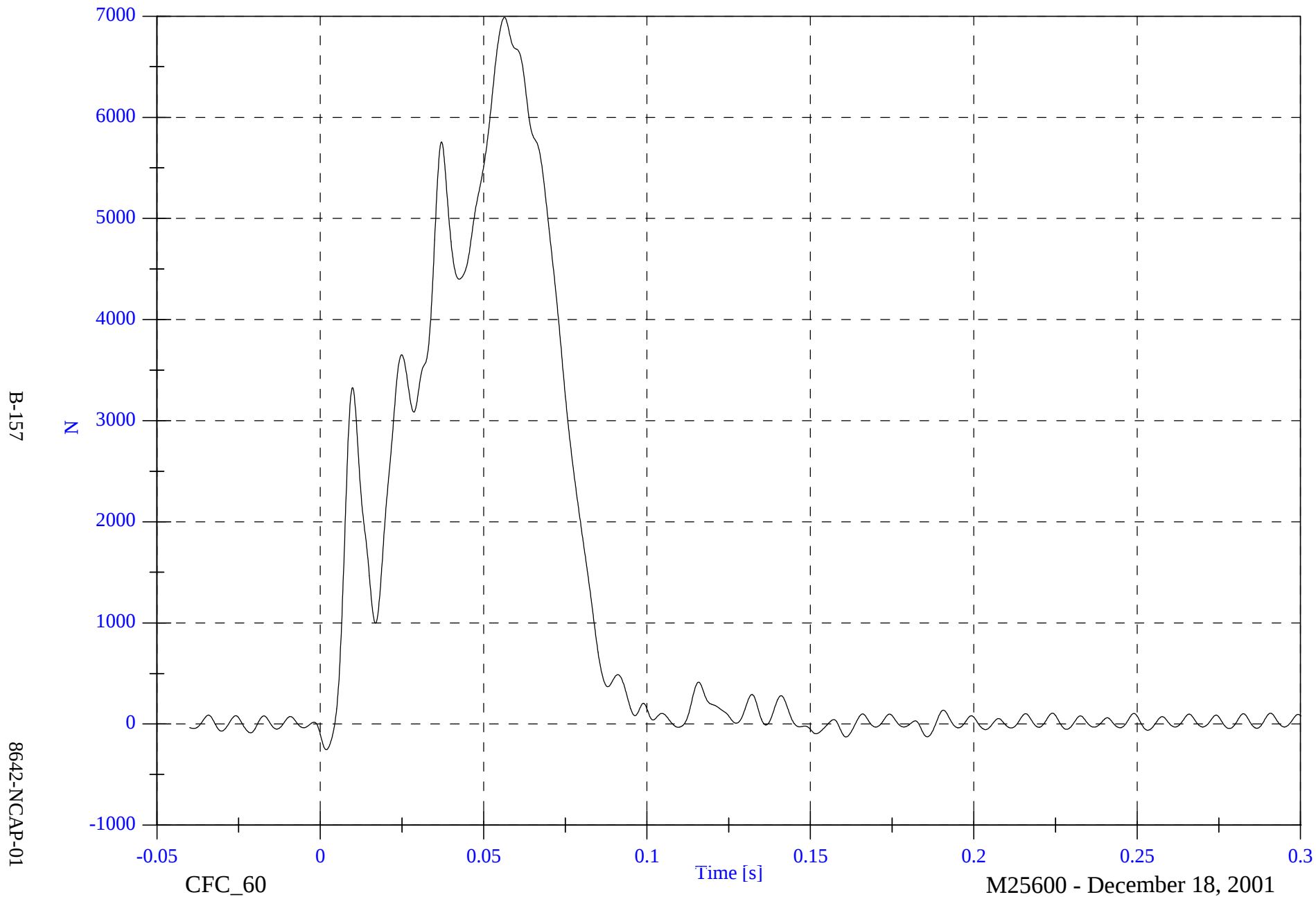


2002 NCAP Test 1 - 2002 Mitsubishi Eclipse

Barrier Load Cell B2 Fx

Max: 6987.9 [N] at 0.056 [s]

Min: -254.0 [N] at 0.002 [s]

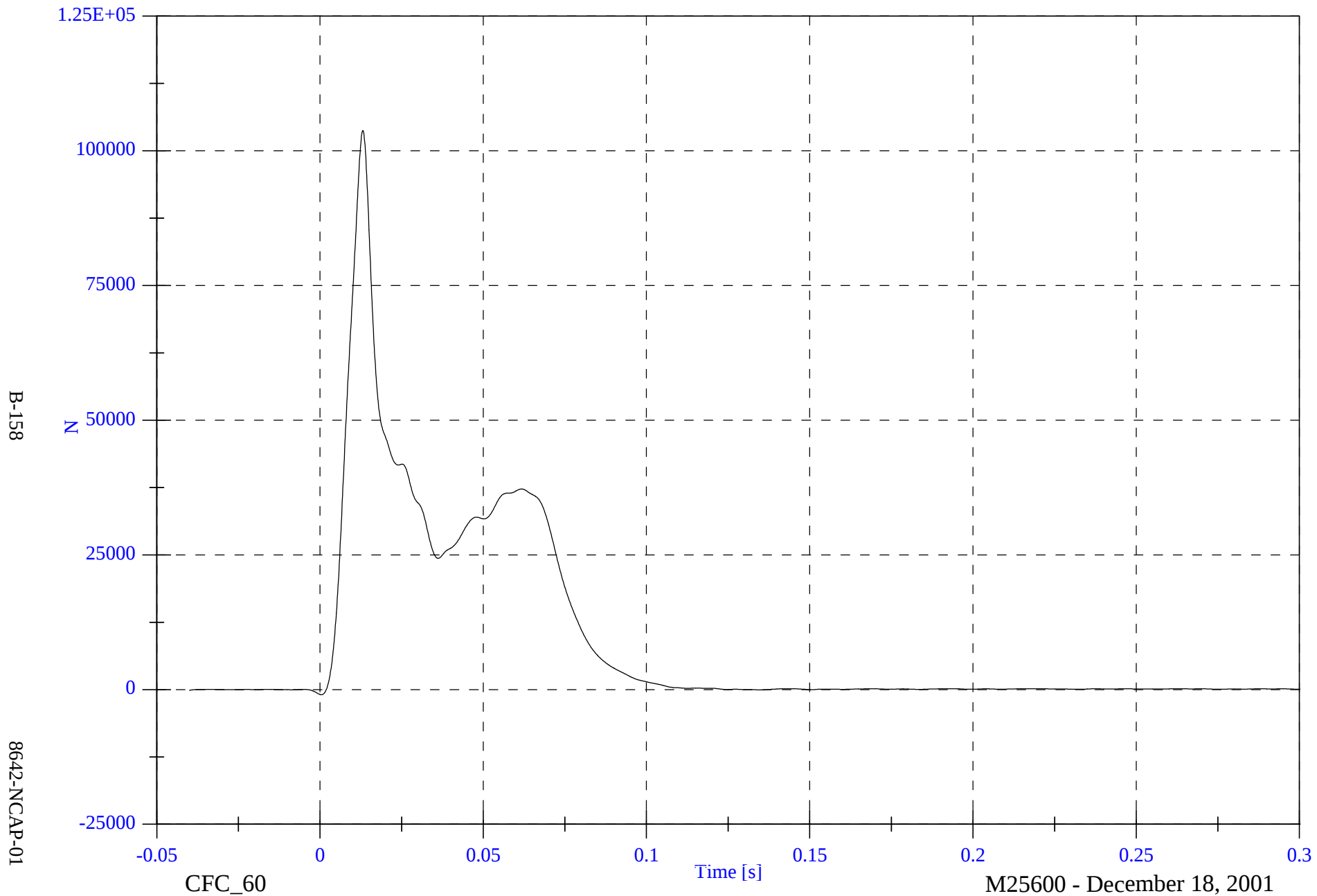


2002 NCAP Test 1 - 2002 Mitsubishi Eclipse

Barrier Load Cell B3 Fx

Max: 103787.2 [N] at 0.013 [s]

Min: -958.3 [N] at 0.000 [s]

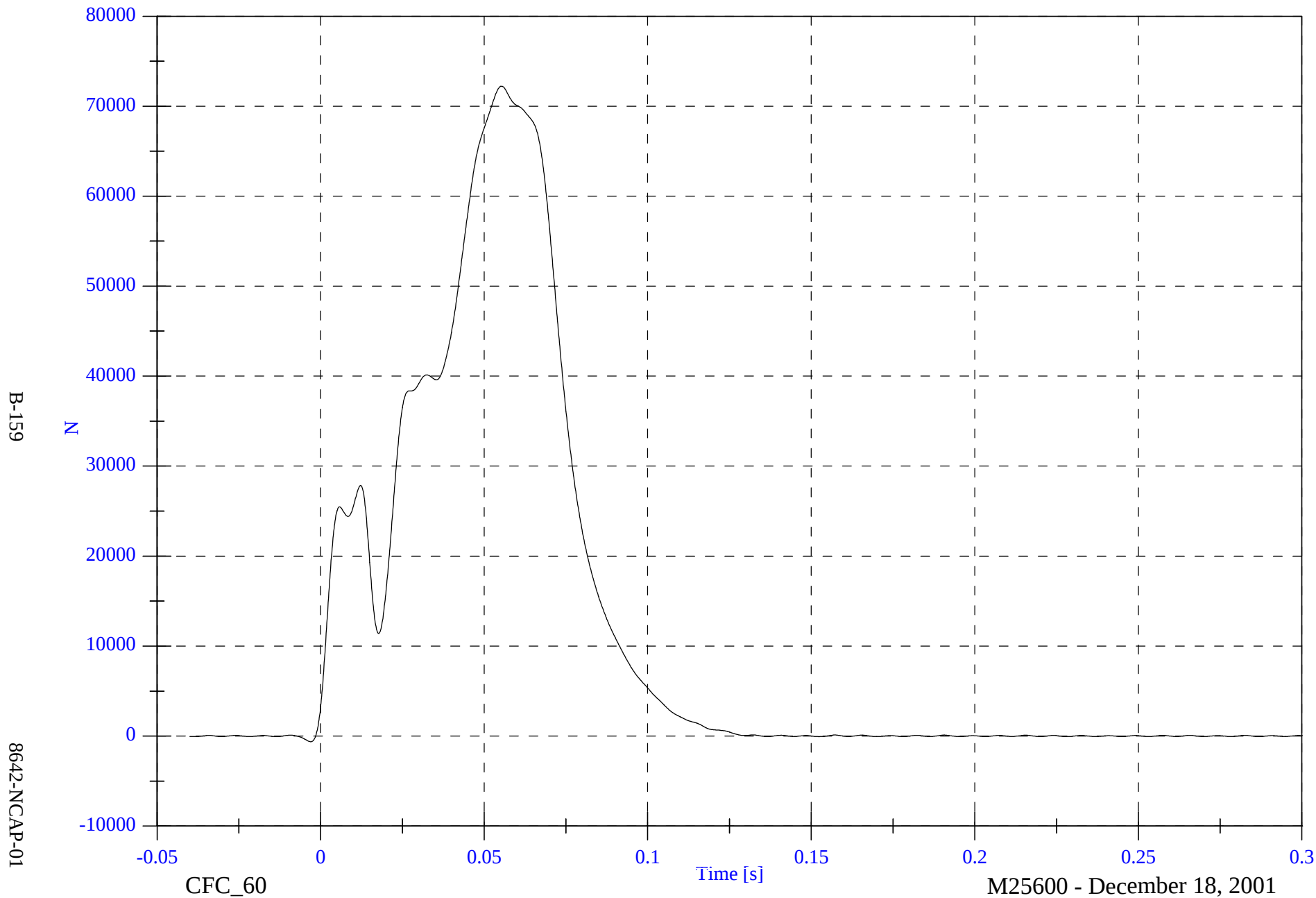


2002 NCAP Test 1 - 2002 Mitsubishi Eclipse

Barrier Load Cell B4 Fx

Max: 72231.9 [N] at 0.055 [s]

Min: -628.8 [N] at -0.003 [s]

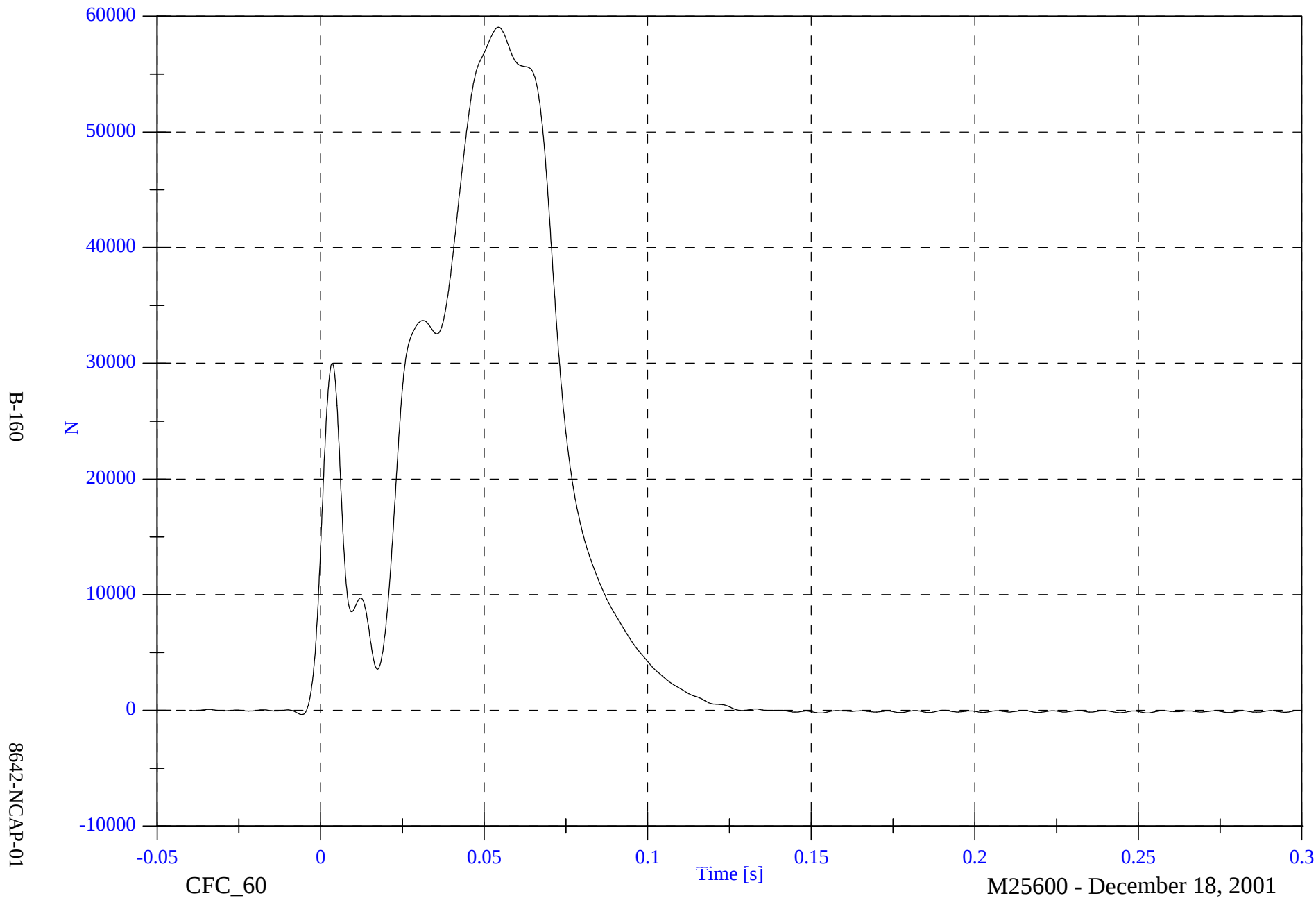


2002 NCAP Test 1 - 2002 Mitsubishi Eclipse

Barrier Load Cell B5 Fx

Max: 59044.9 [N] at 0.054 [s]

Min: -369.6 [N] at -0.006 [s]

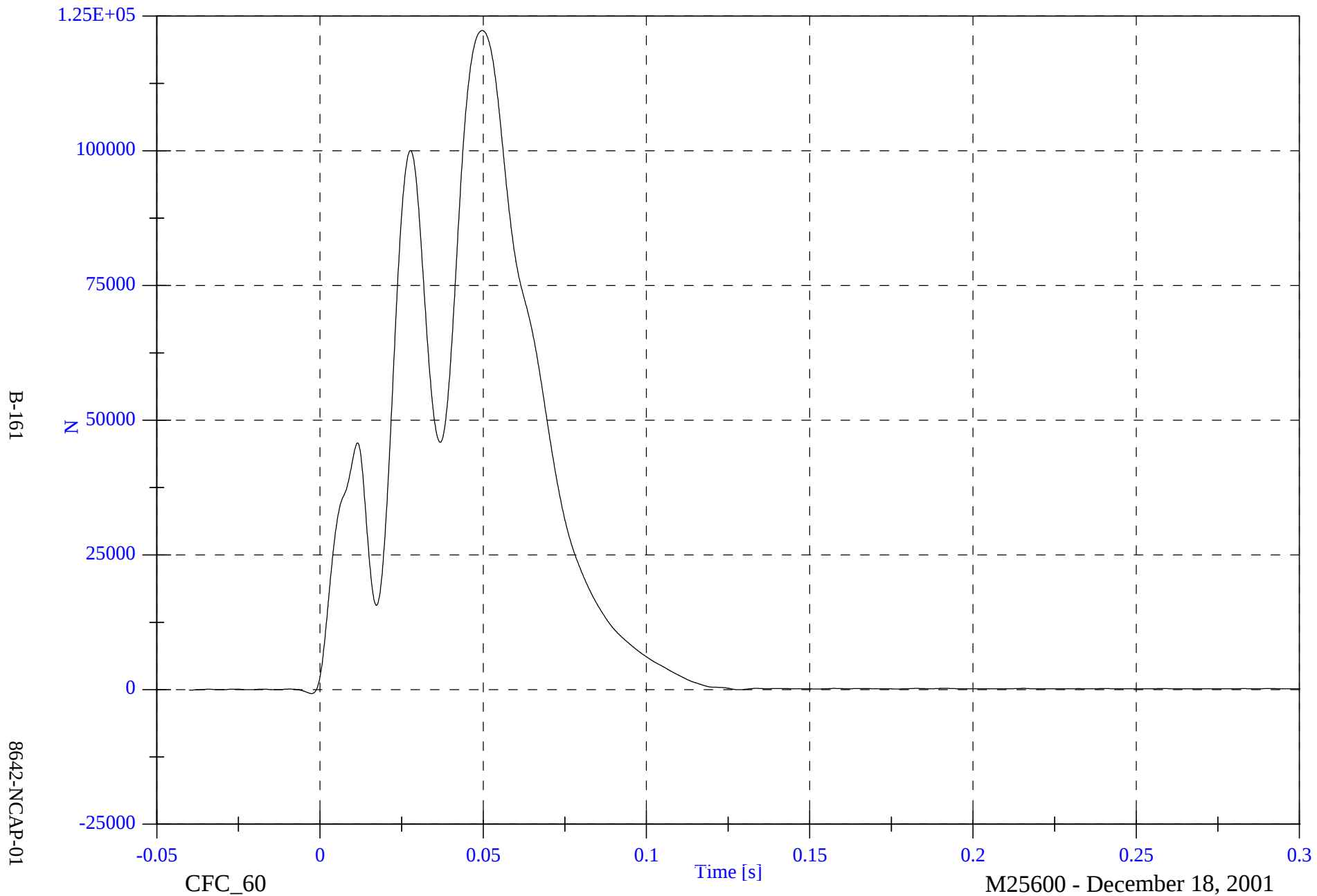


2002 NCAP Test 1 - 2002 Mitsubishi Eclipse

Barrier Load Cell B6 Fx

Max: 122343.6 [N] at 0.050 [s]

Min: -752.2 [N] at -0.003 [s]

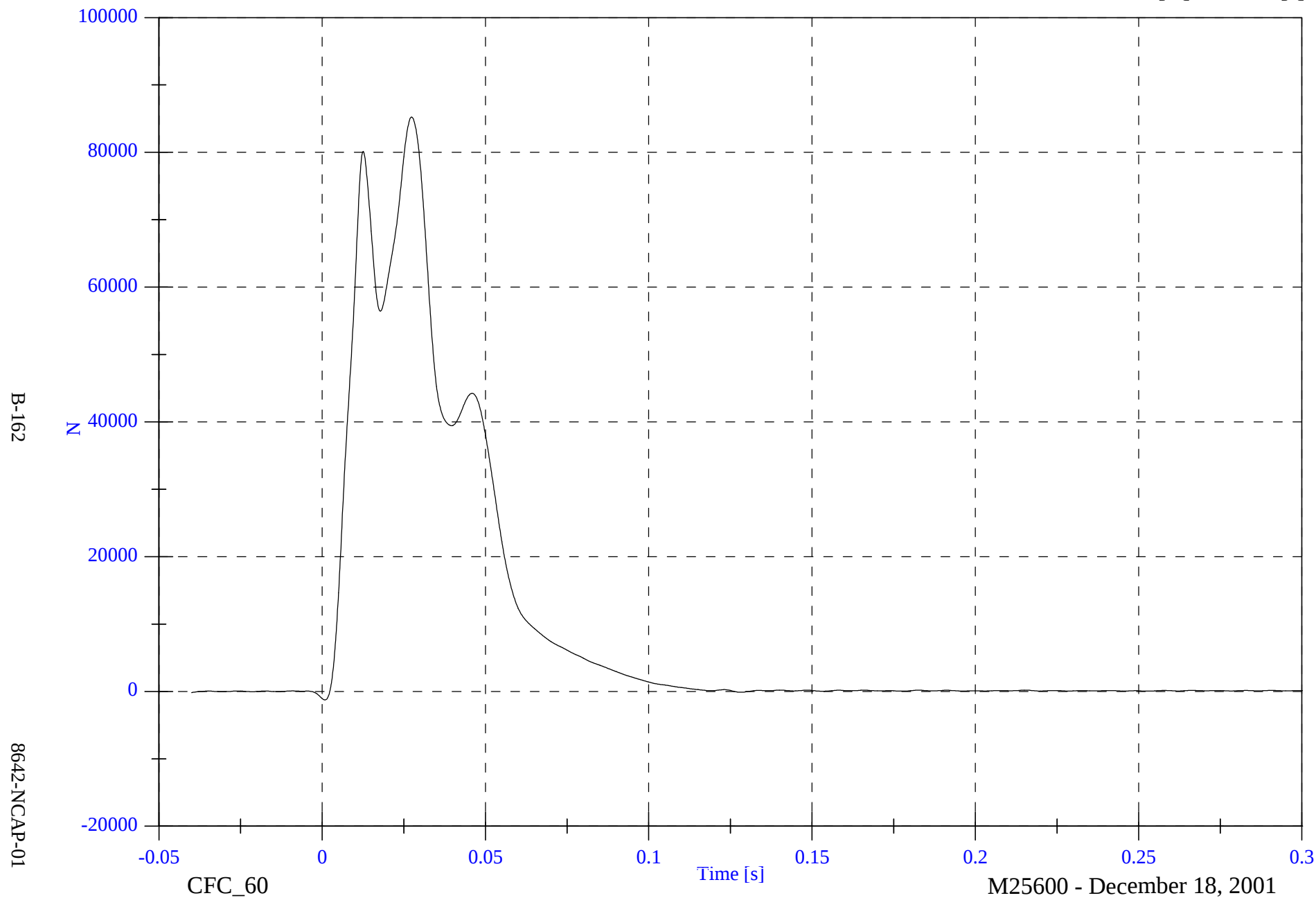


2002 NCAP Test 1 - 2002 Mitsubishi Eclipse

Barrier Load Cell B7 Fx

Max: 85240.2 [N] at 0.027 [s]

Min: -1272.2 [N] at 0.001 [s]

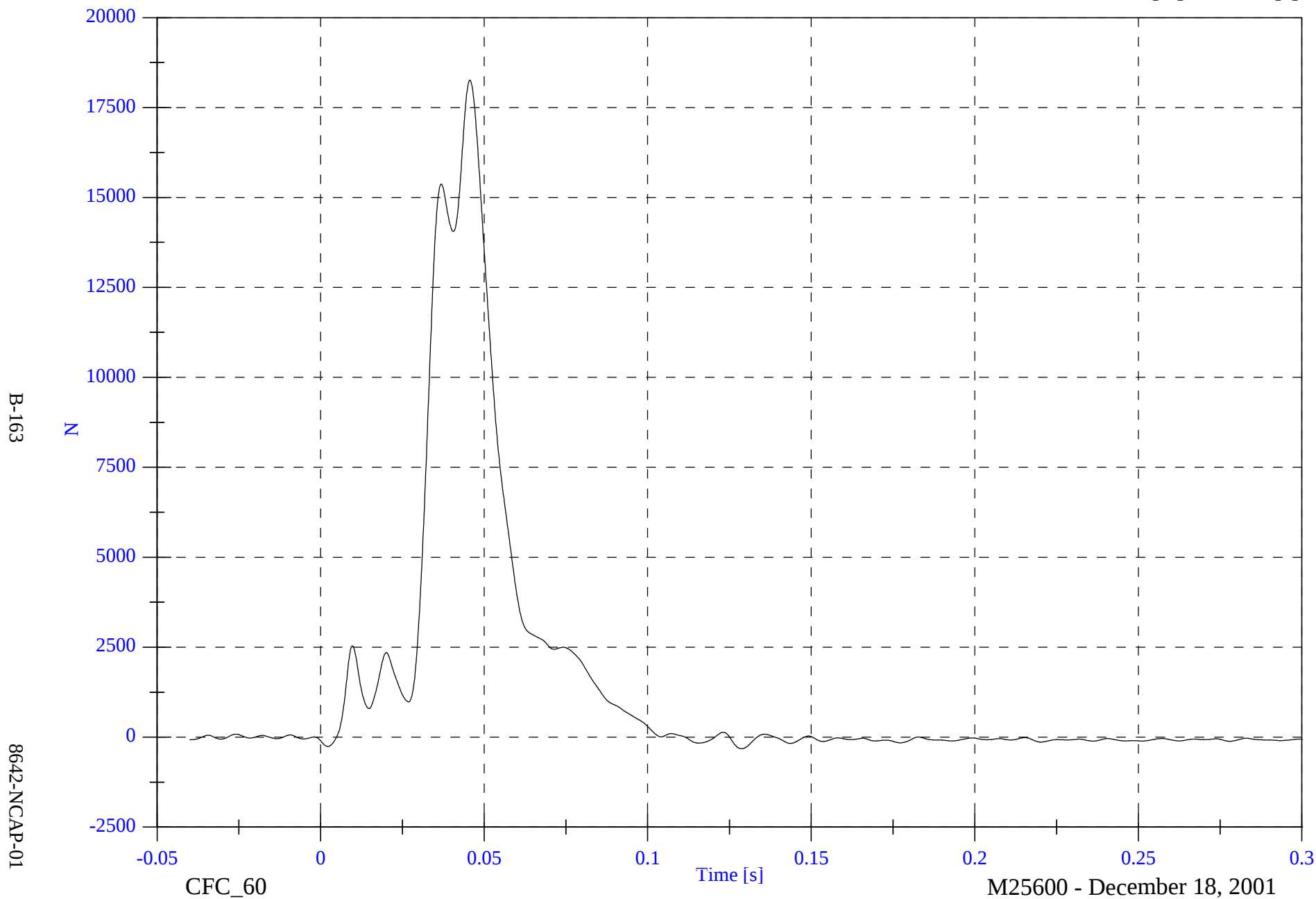


2002 NCAP Test 1 - 2002 Mitsubishi Eclipse

Barrier Load Cell B8 Fx

Max: 18262.0 [N] at 0.046 [s]

Min: -323.4 [N] at 0.129 [s]

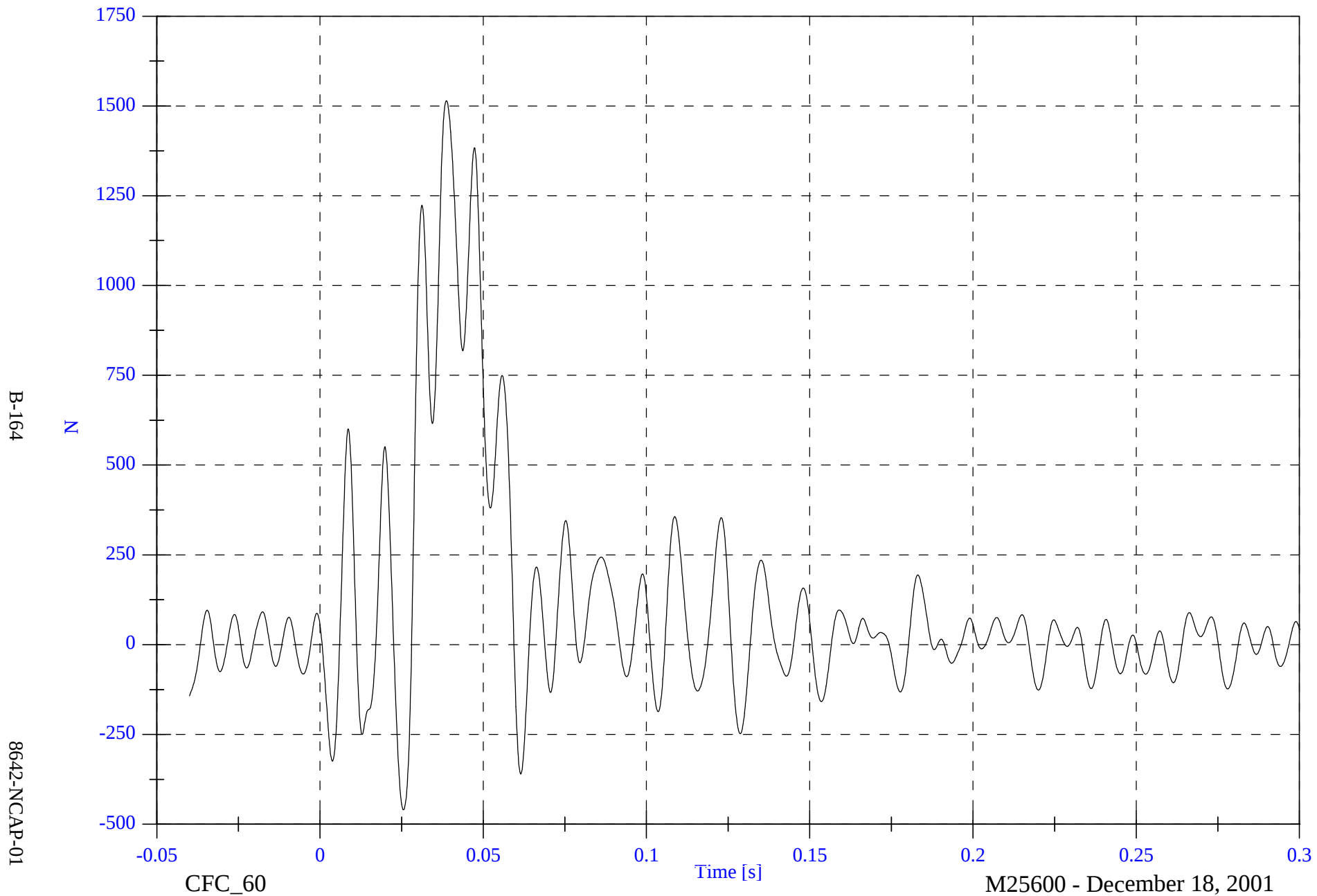


2002 NCAP Test 1 - 2002 Mitsubishi Eclipse

Barrier Load Cell B9 Fx

Max: 1514.7 [N] at 0.039 [s]

Min: -459.9 [N] at 0.025 [s]

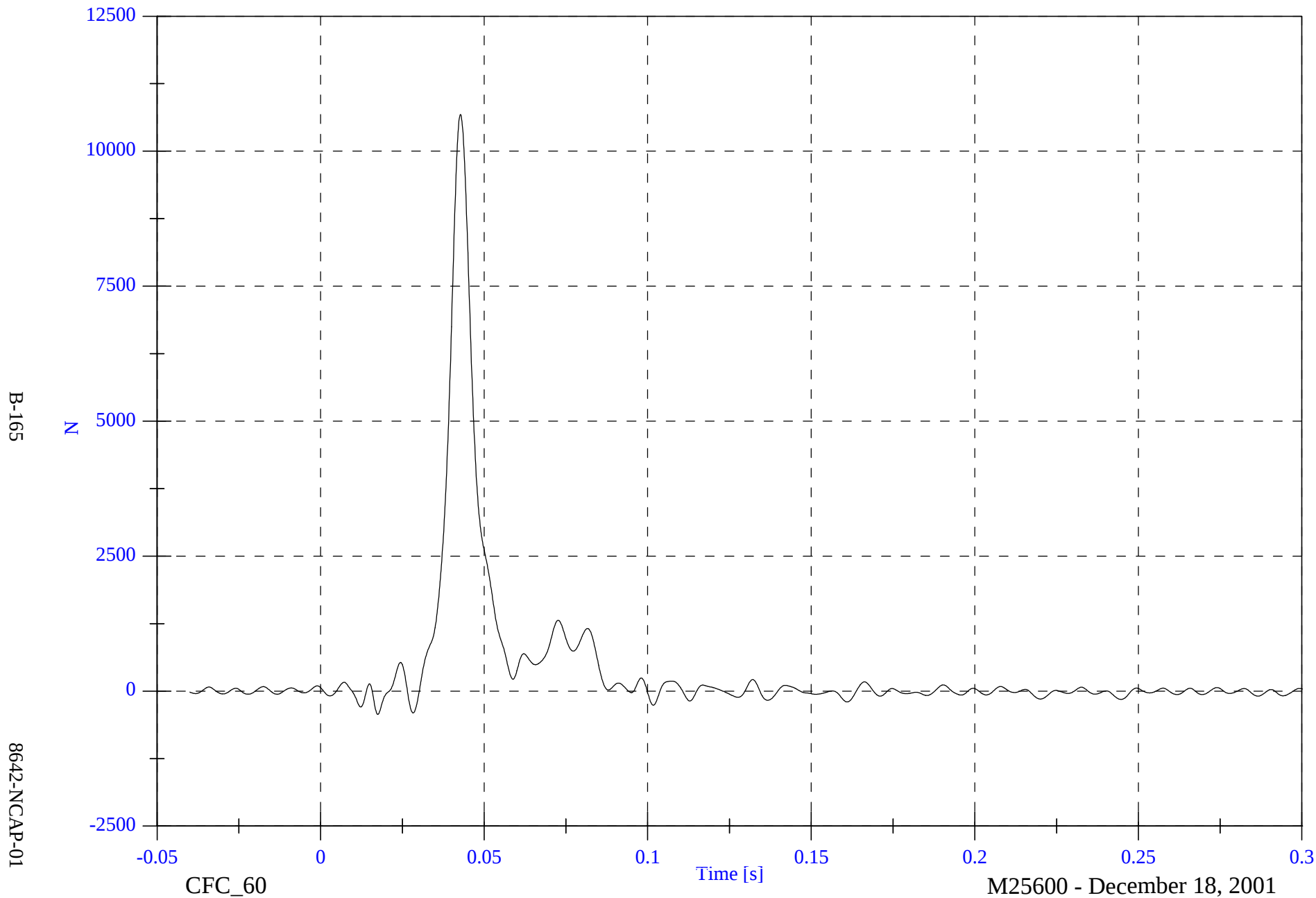


2002 NCAP Test 1 - 2002 Mitsubishi Eclipse

Barrier Load Cell C1 Fx

Max: 10679.9 [N] at 0.043 [s]

Min: -433.2 [N] at 0.017 [s]

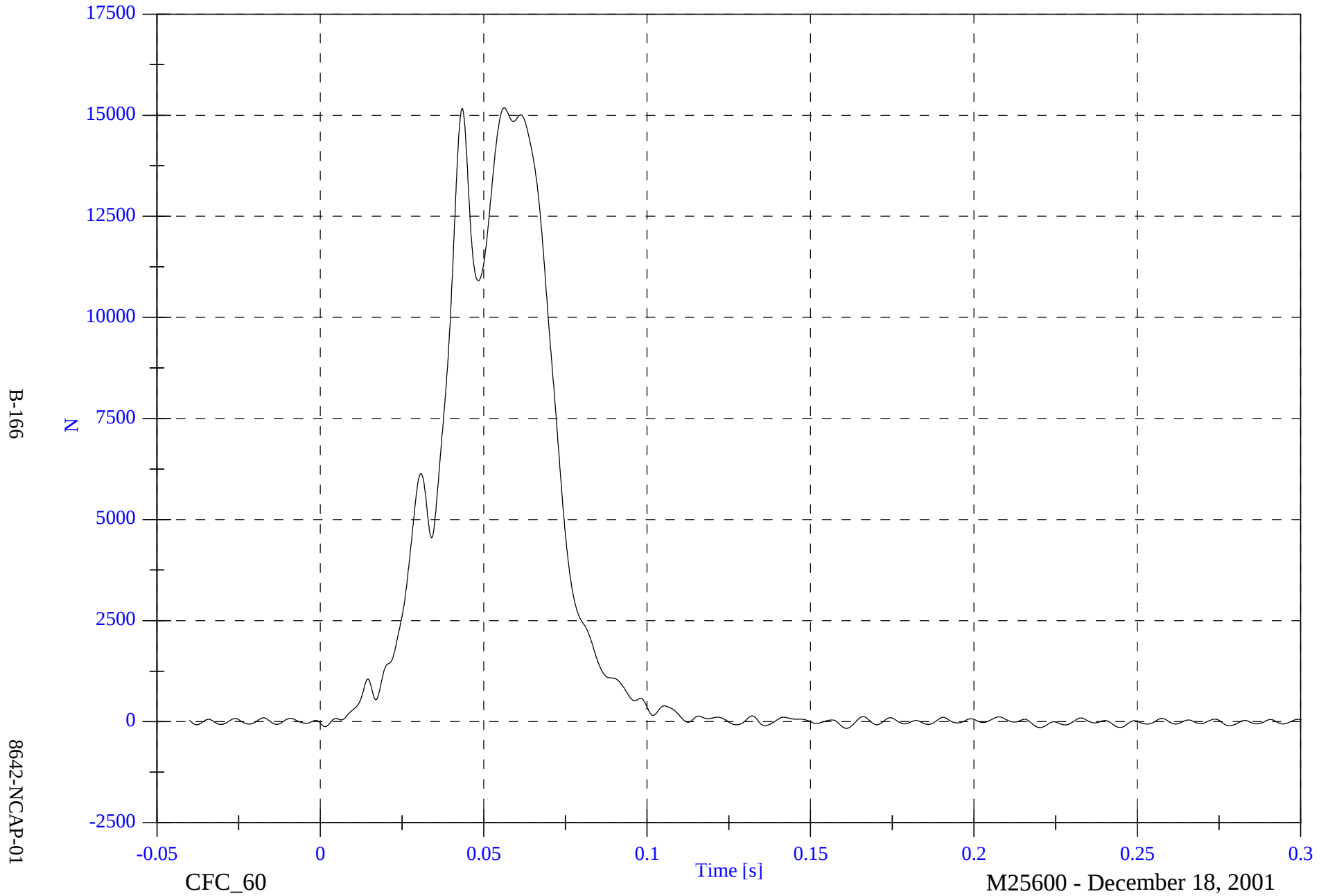


2002 NCAP Test 1 - 2002 Mitsubishi Eclipse

Barrier Load Cell C2 Fx

Max: 15183.9 [N] at 0.056 [s]

Min: -164.8 [N] at 0.161 [s]

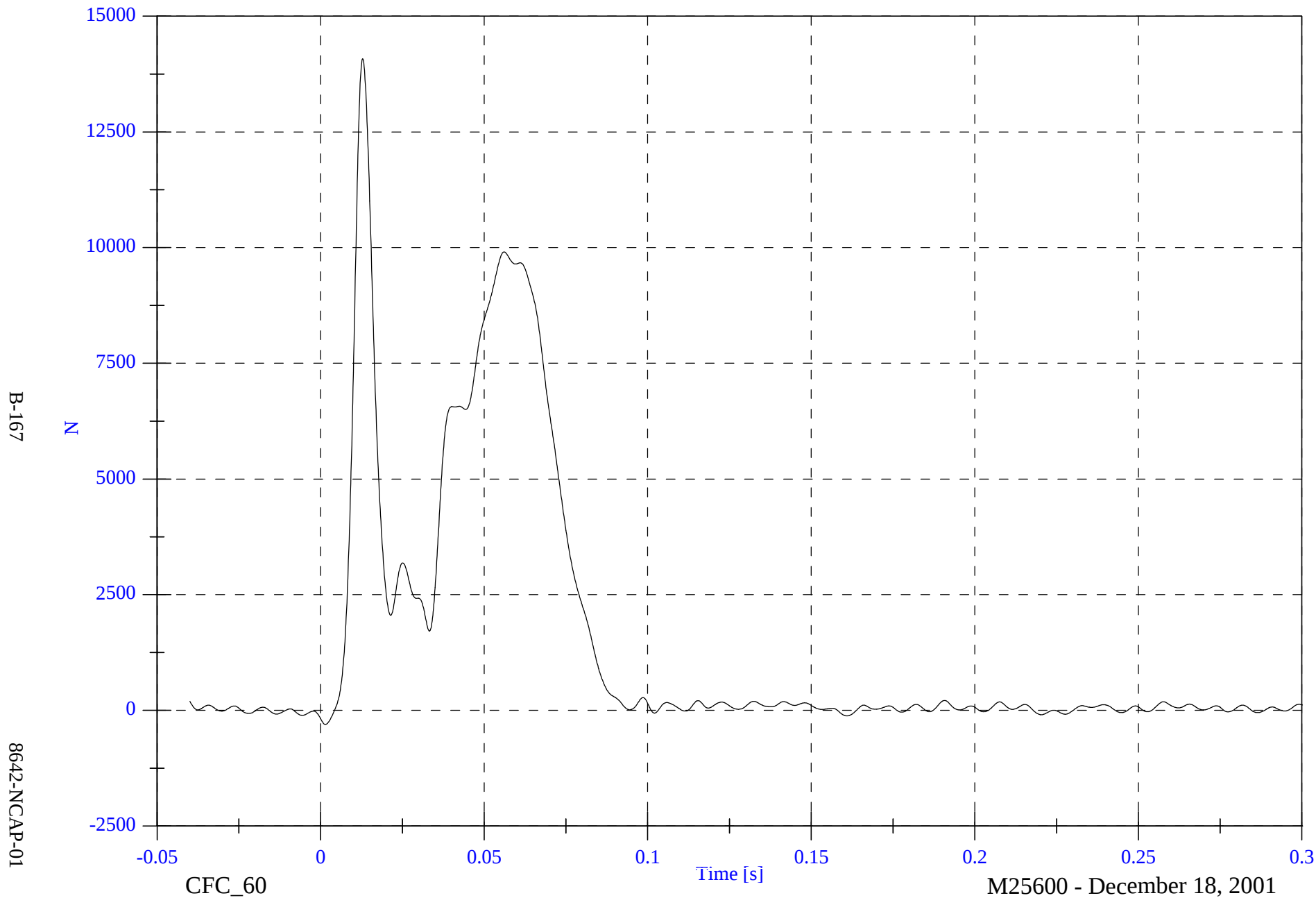


2002 NCAP Test 1 - 2002 Mitsubishi Eclipse

Barrier Load Cell C3 Fx

Max: 14081.6 [N] at 0.013 [s]

Min: -305.5 [N] at 0.001 [s]

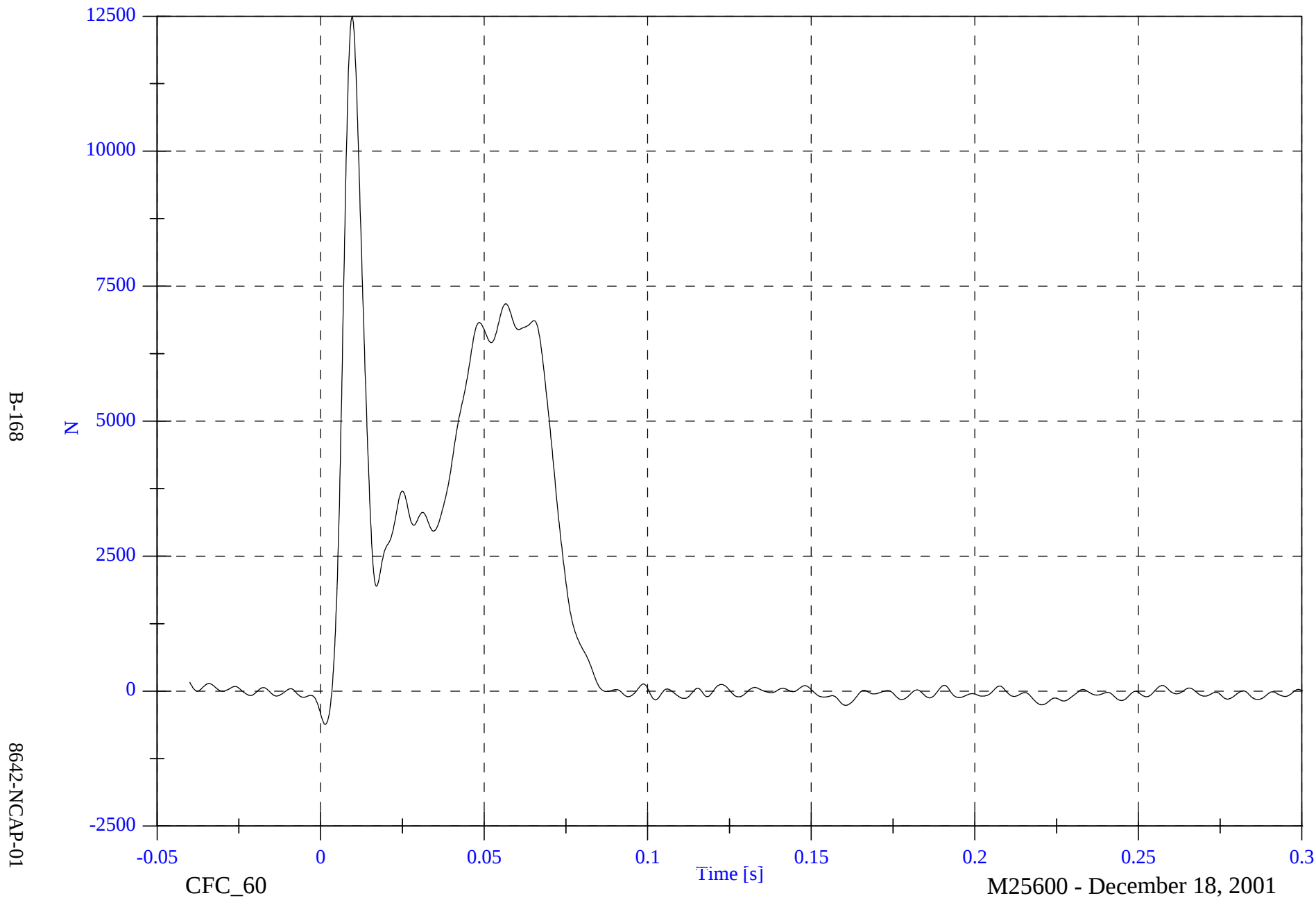


2002 NCAP Test 1 - 2002 Mitsubishi Eclipse

Barrier Load Cell C4 Fx

Max: 12491.0 [N] at 0.010 [s]

Min: -617.1 [N] at 0.001 [s]

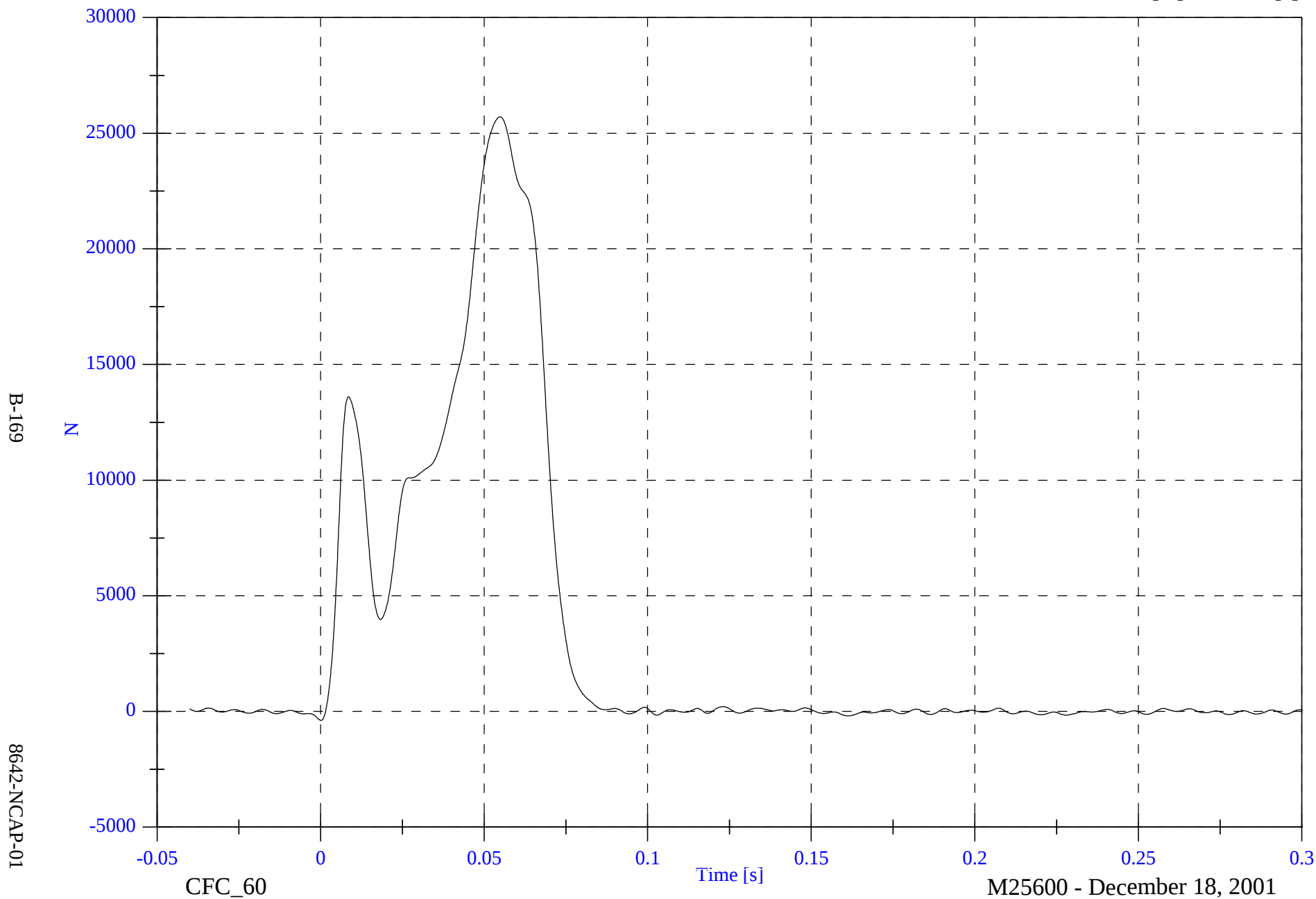


2002 NCAP Test 1 - 2002 Mitsubishi Eclipse

Barrier Load Cell C5 Fx

Max: 25710.1 [N] at 0.055 [s]

Min: -384.9 [N] at 0.000 [s]

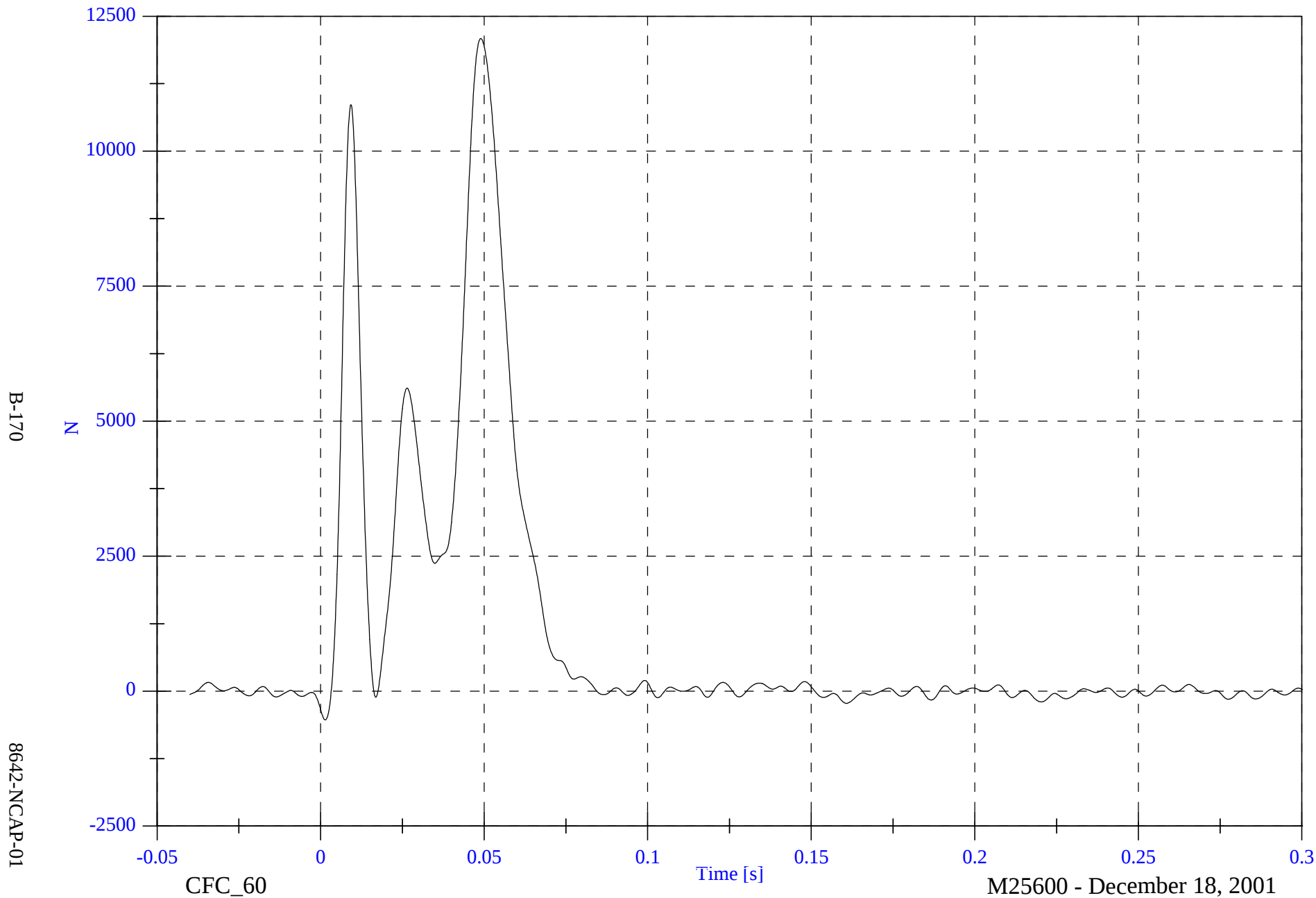


2002 NCAP Test 1 - 2002 Mitsubishi Eclipse

Barrier Load Cell C6 Fx

Max: 12086.6 [N] at 0.049 [s]

Min: -534.3 [N] at 0.001 [s]

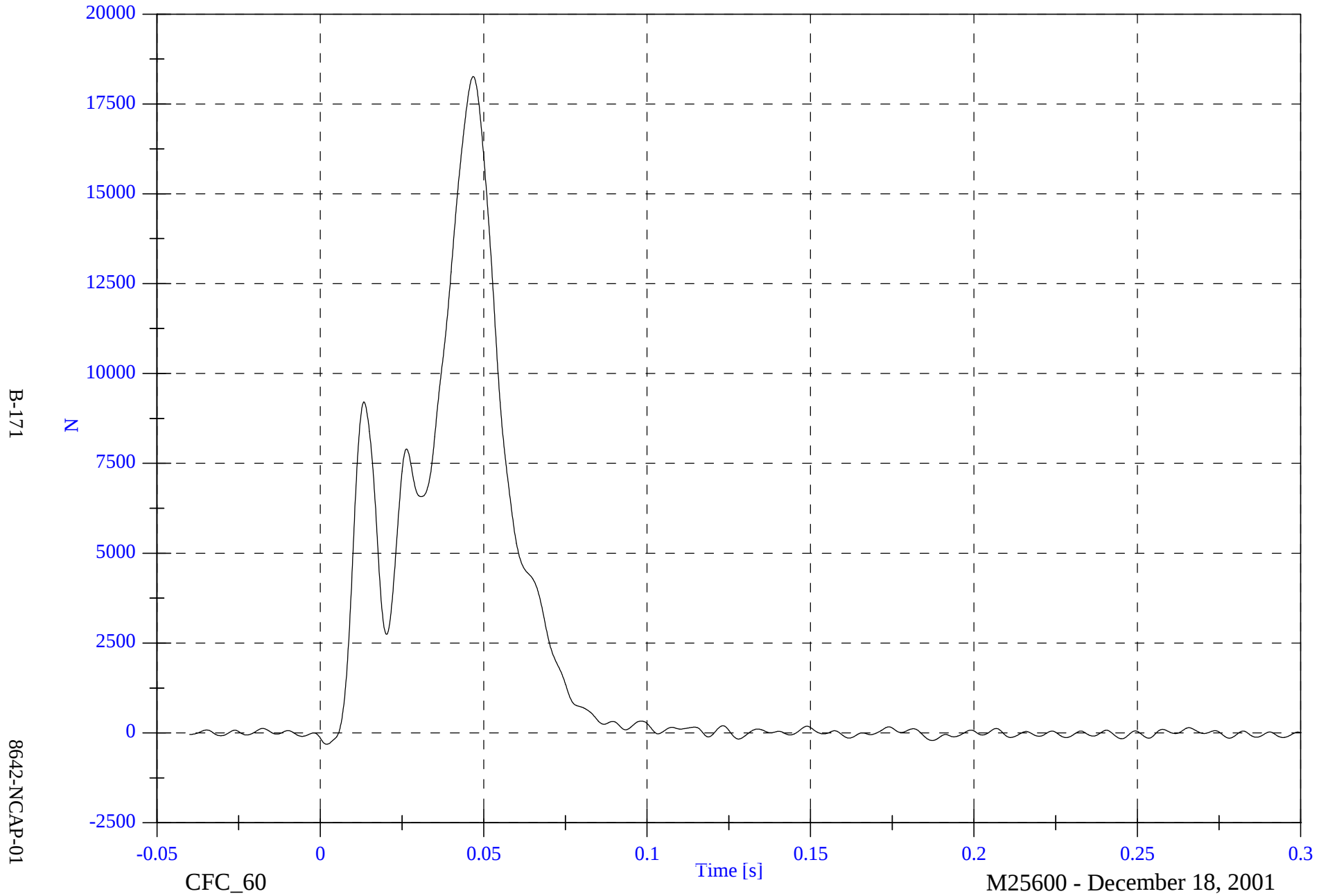


2002 NCAP Test 1 - 2002 Mitsubishi Eclipse

Barrier Load Cell C7 Fx

Max: 18263.0 [N] at 0.047 [s]

Min: -314.1 [N] at 0.002 [s]

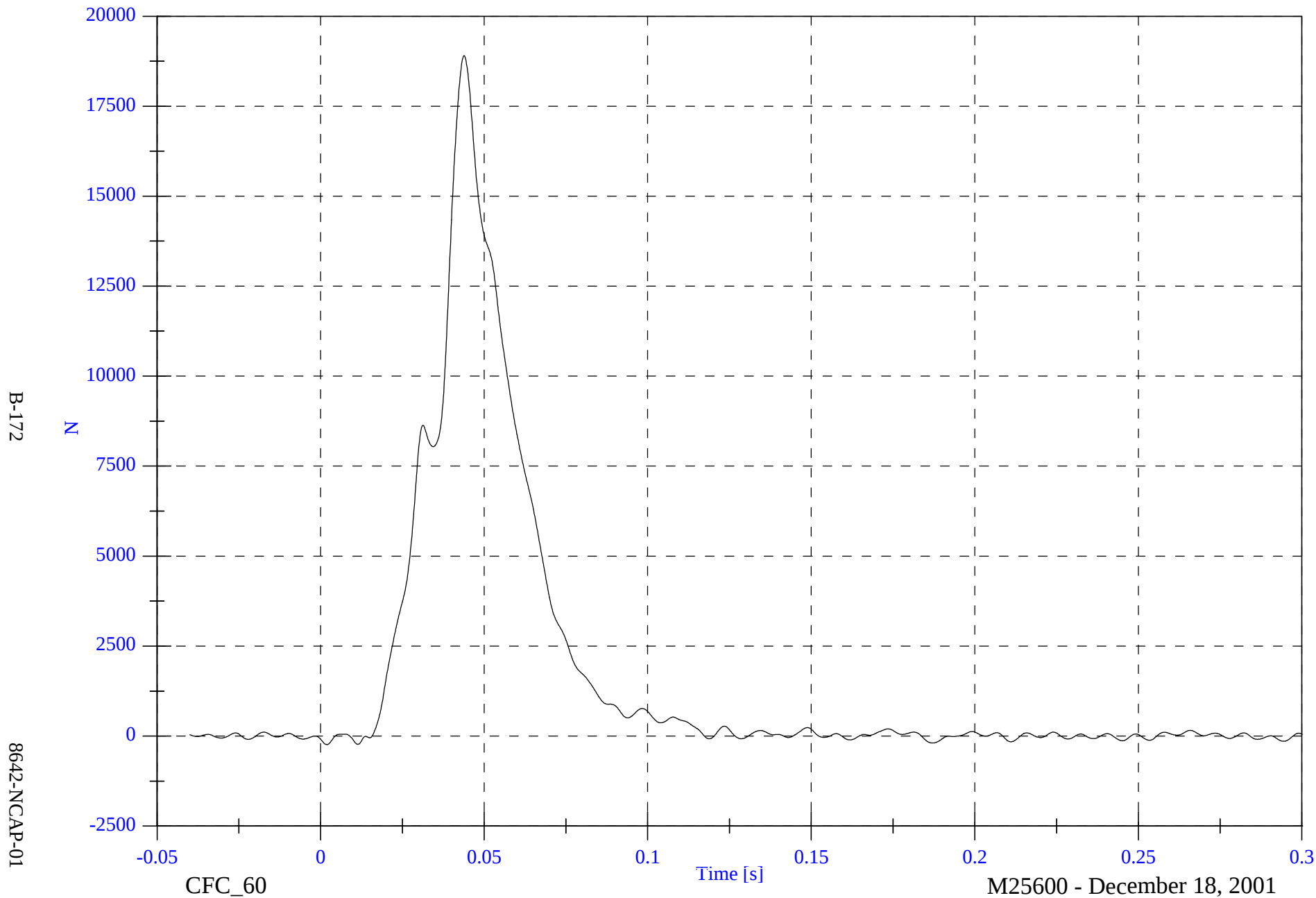


2002 NCAP Test 1 - 2002 Mitsubishi Eclipse

Barrier Load Cell C8 Fx

Max: 18902.9 [N] at 0.044 [s]

Min: -238.4 [N] at 0.002 [s]

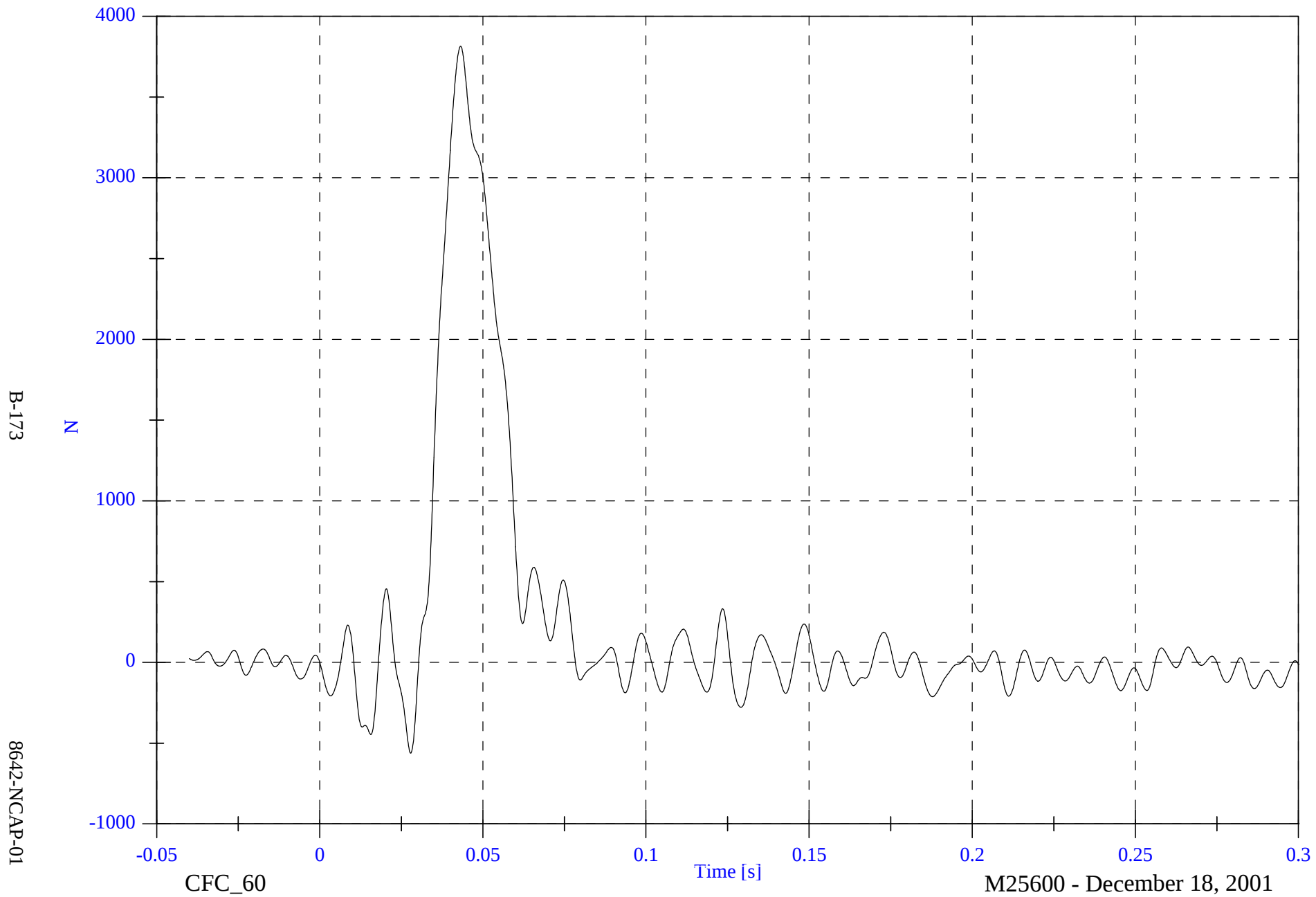


2002 NCAP Test 1 - 2002 Mitsubishi Eclipse

Barrier Load Cell C9 Fx

Max: 3814.1 [N] at 0.043 [s]

Min: -562.3 [N] at 0.028 [s]

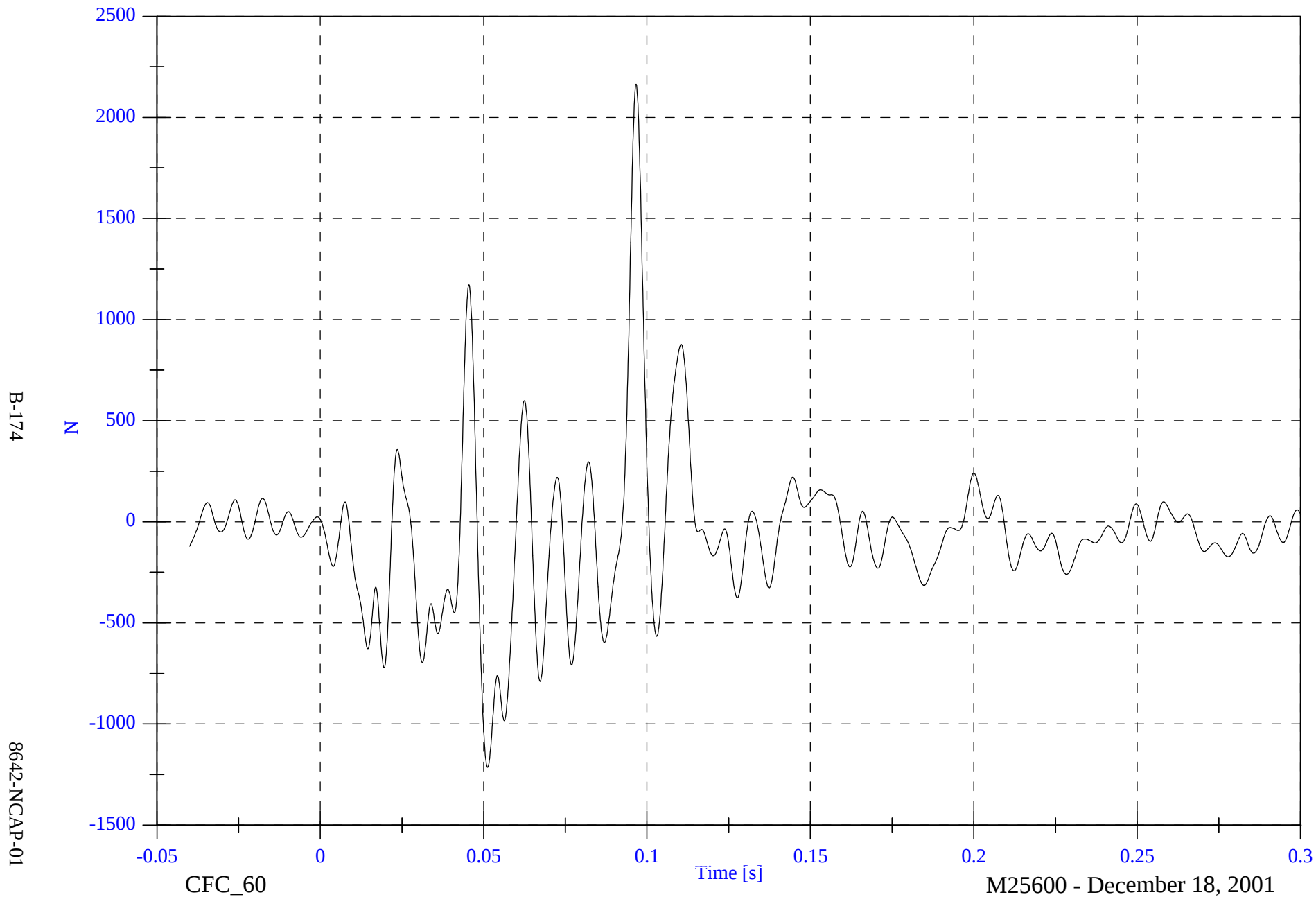


2002 NCAP Test 1 - 2002 Mitsubishi Eclipse

Barrier Load Cell D1 Fx

Max: 2164.4 [N] at 0.097 [s]

Min: -1214.2 [N] at 0.051 [s]

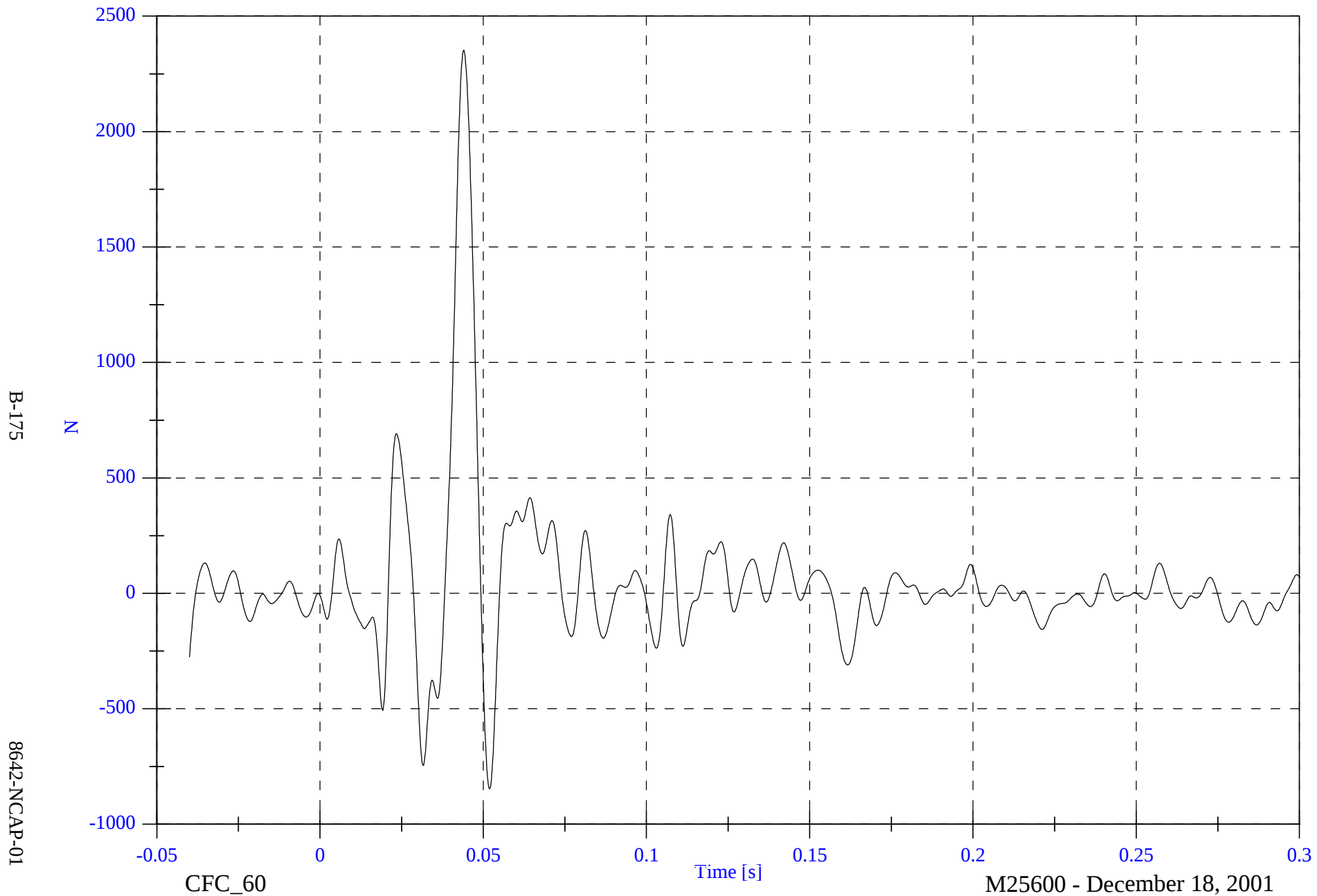


2002 NCAP Test 1 - 2002 Mitsubishi Eclipse

Barrier Load Cell D2 Fx

Max: 2352.6 [N] at 0.044 [s]

Min: -847.3 [N] at 0.052 [s]

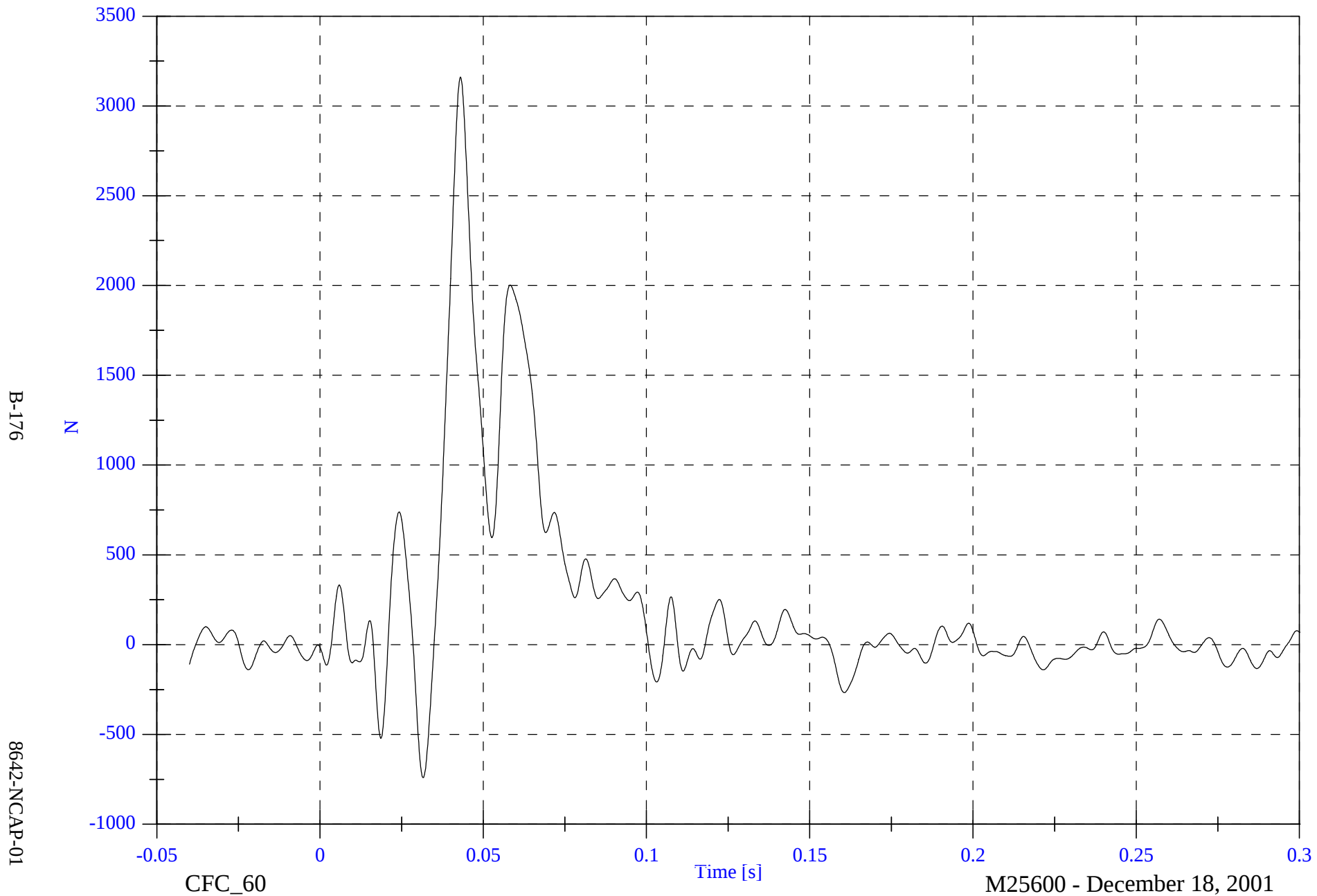


2002 NCAP Test 1 - 2002 Mitsubishi Eclipse

Barrier Load Cell D3 Fx

Max: 3160.8 [N] at 0.043 [s]

Min: -740.9 [N] at 0.032 [s]

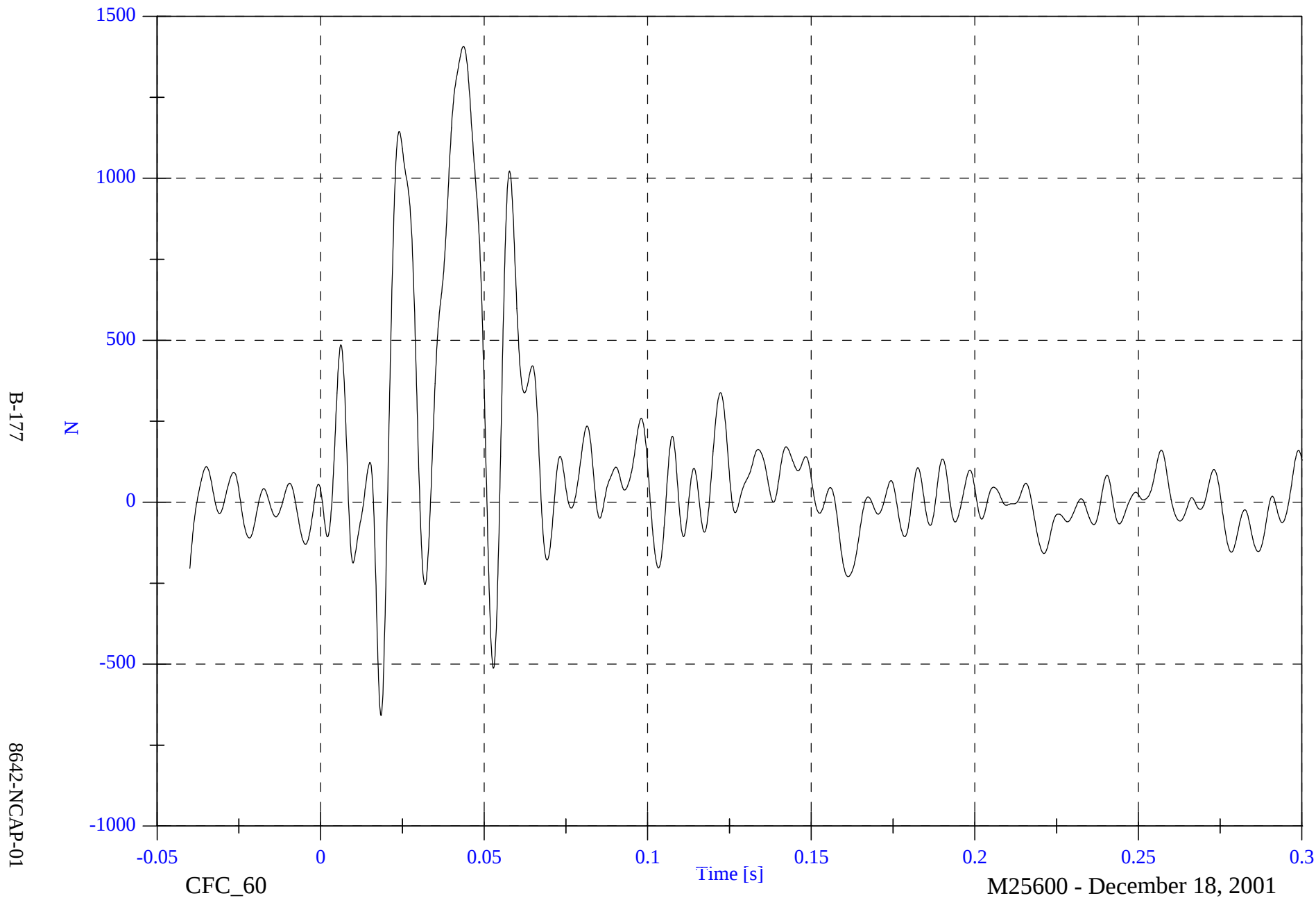


2002 NCAP Test 1 - 2002 Mitsubishi Eclipse

Barrier Load Cell D4 Fx

Max: 1406.9 [N] at 0.044 [s]

Min: -659.4 [N] at 0.018 [s]

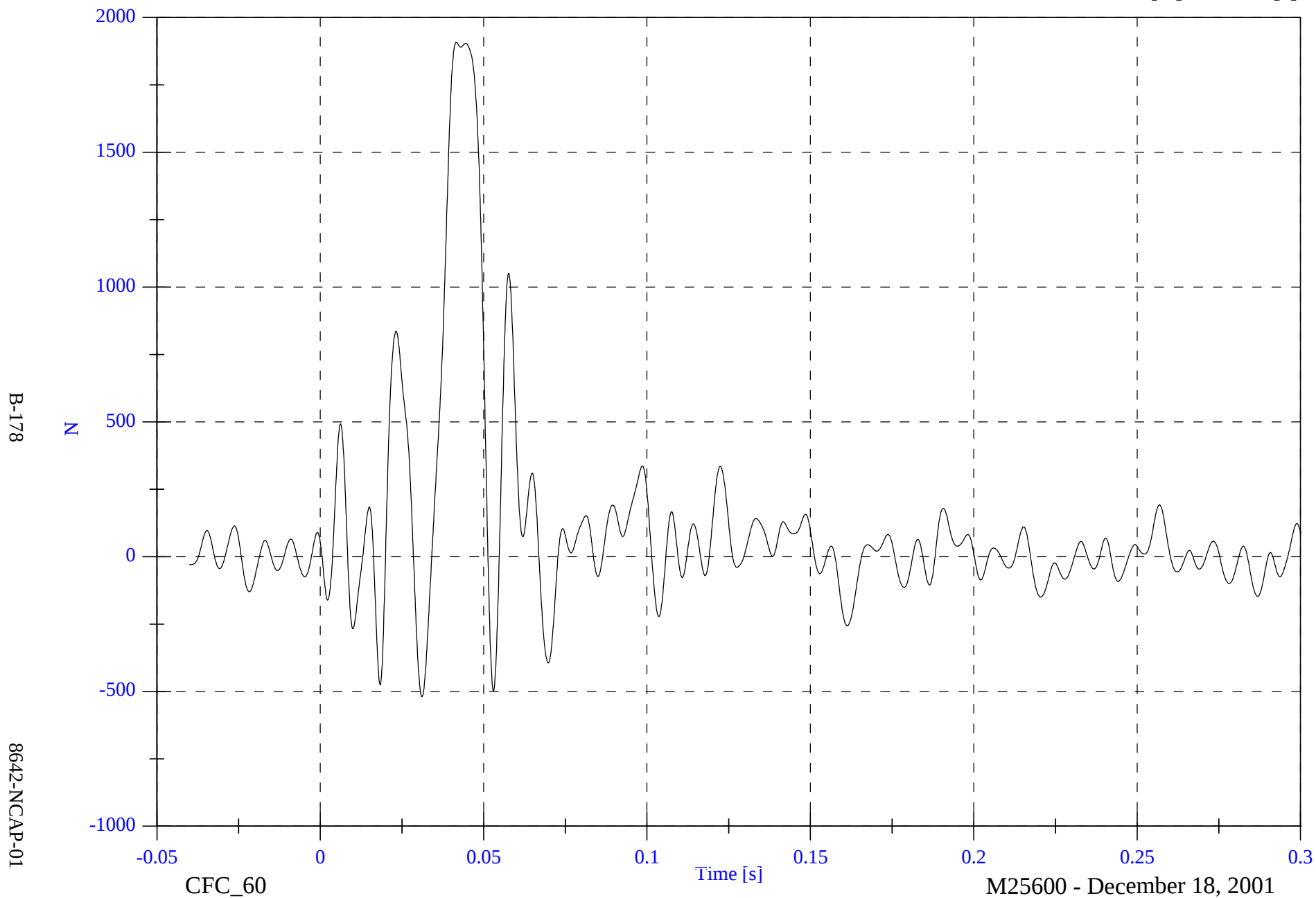


2002 NCAP Test 1 - 2002 Mitsubishi Eclipse

Barrier Load Cell D5 Fx

Max: 1908.3 [N] at 0.042 [s]

Min: -520.2 [N] at 0.031 [s]

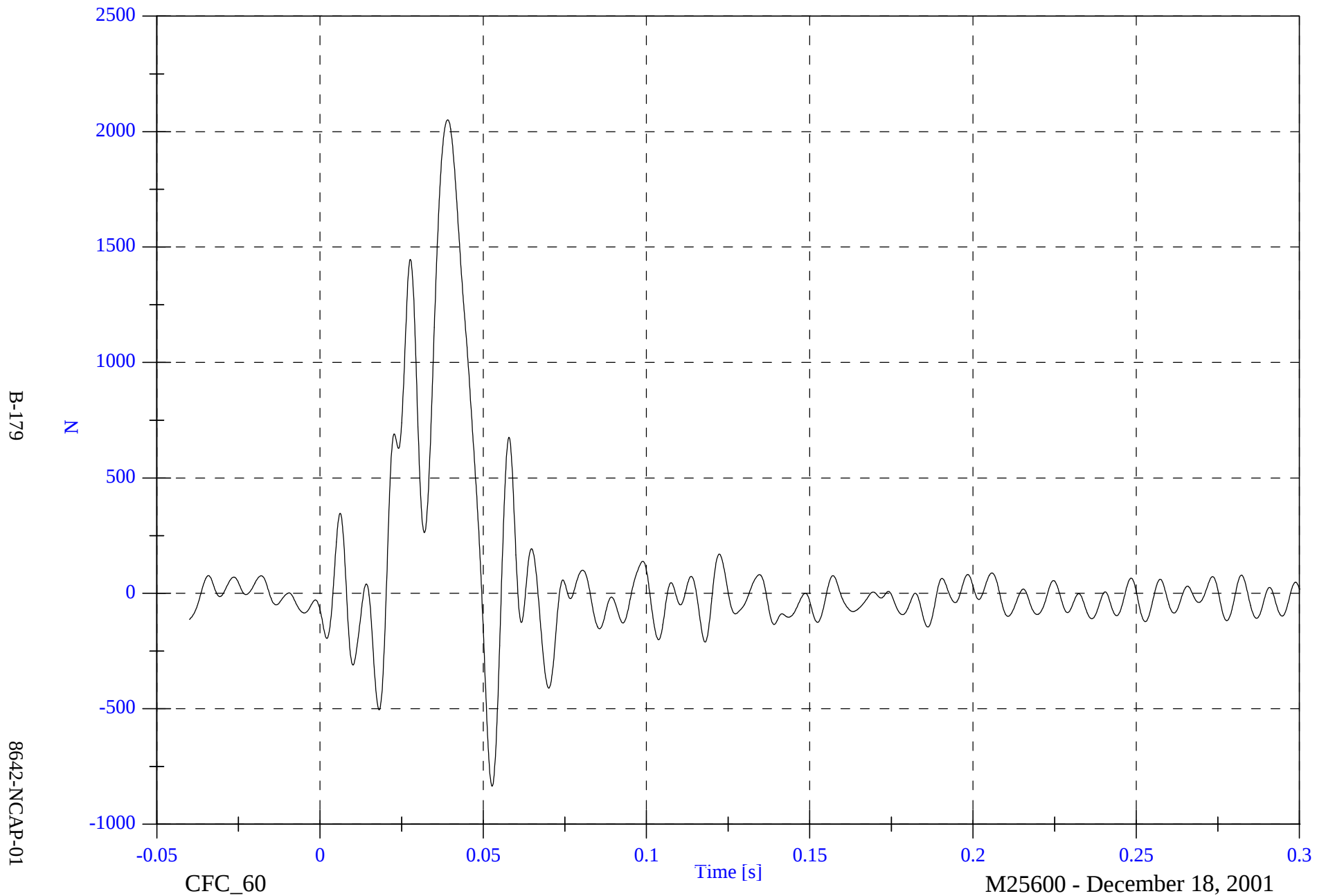


2002 NCAP Test 1 - 2002 Mitsubishi Eclipse

Barrier Load Cell D6 Fx

Max: 2051.1 [N] at 0.039 [s]

Min: -835.3 [N] at 0.053 [s]

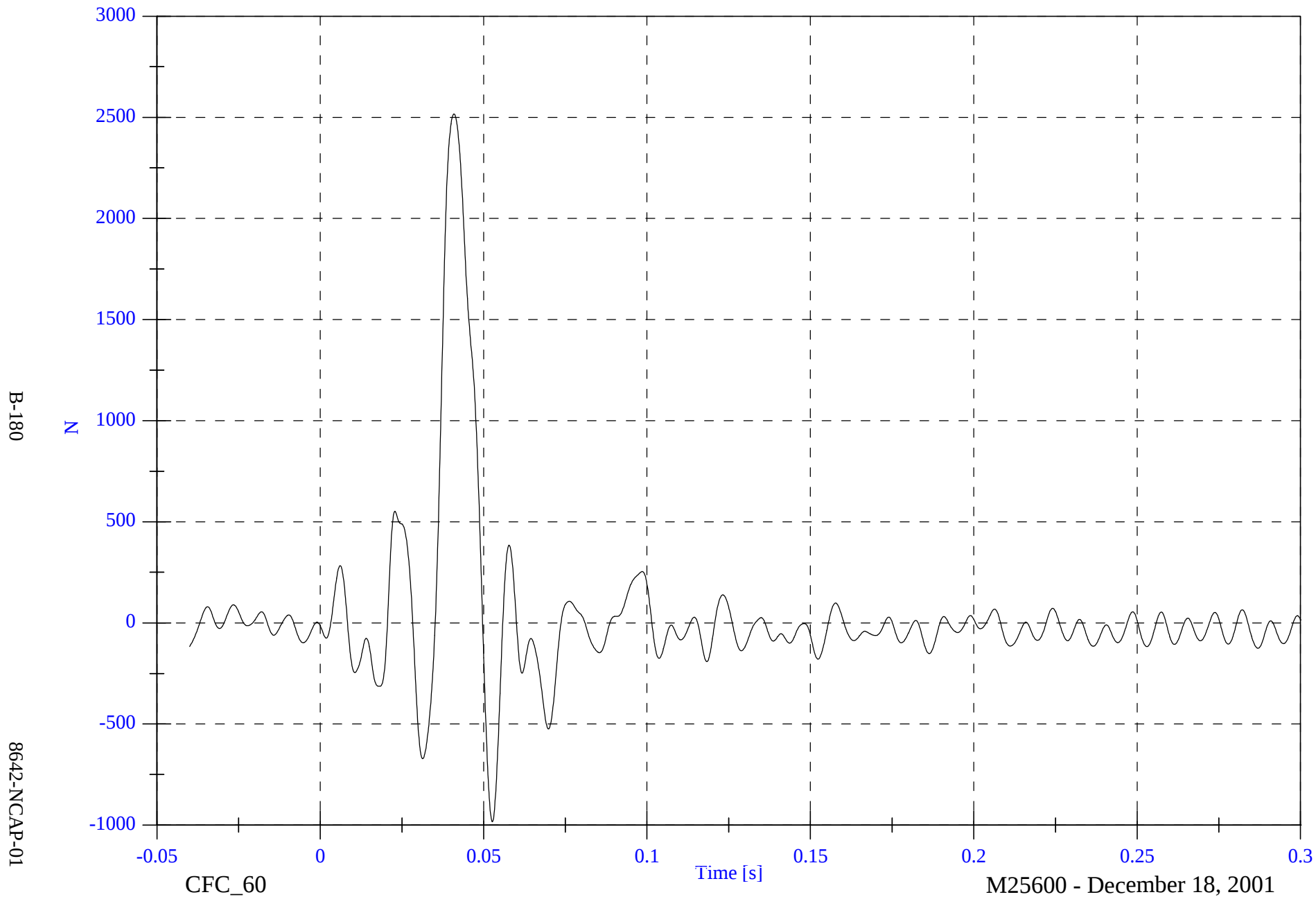


2002 NCAP Test 1 - 2002 Mitsubishi Eclipse

Barrier Load Cell D7 Fx

Max: 2516.2 [N] at 0.041 [s]

Min: -983.4 [N] at 0.053 [s]

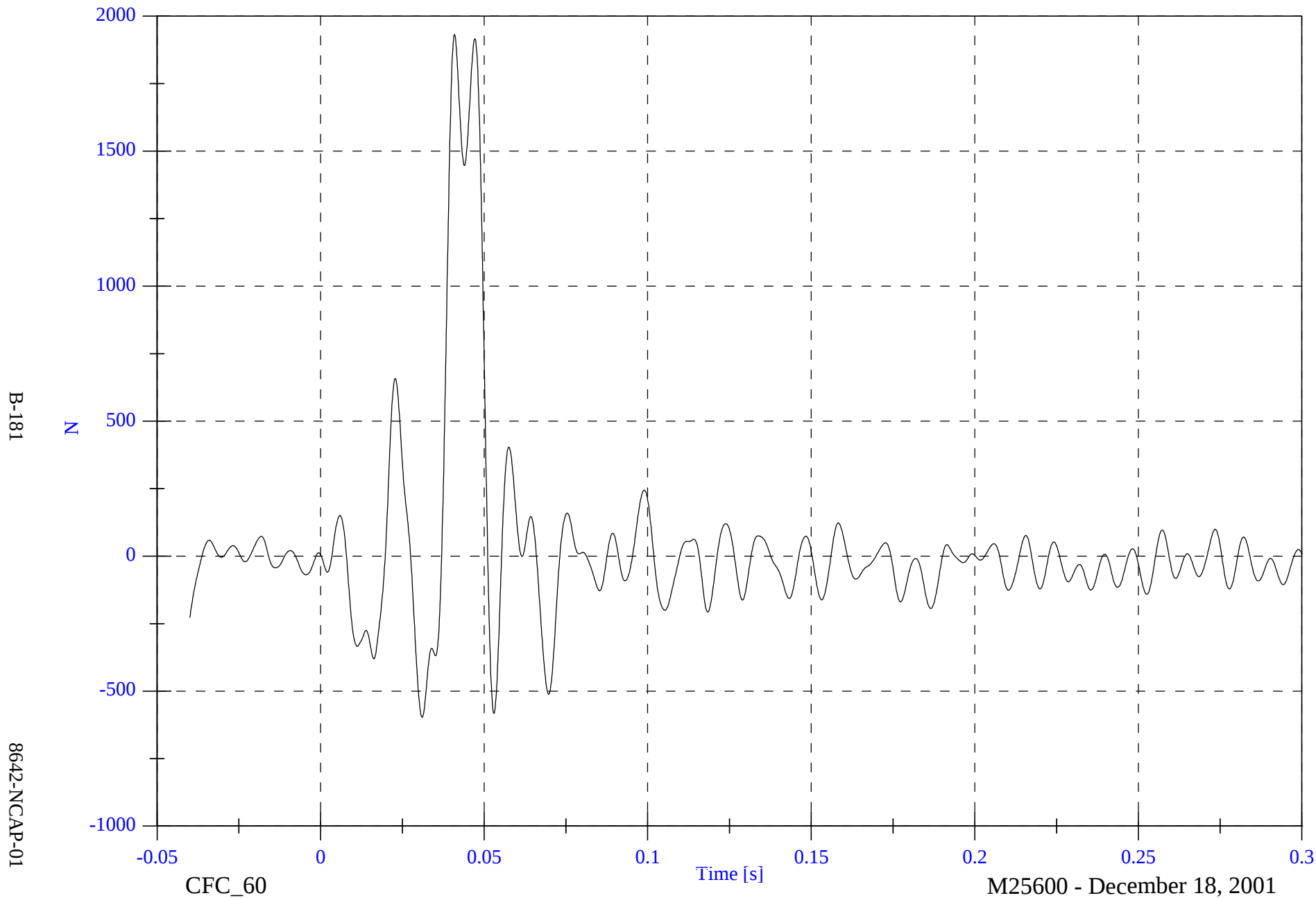


2002 NCAP Test 1 - 2002 Mitsubishi Eclipse

Barrier Load Cell D8 Fx

Max: 1932.3 [N] at 0.041 [s]

Min: -597.3 [N] at 0.031 [s]

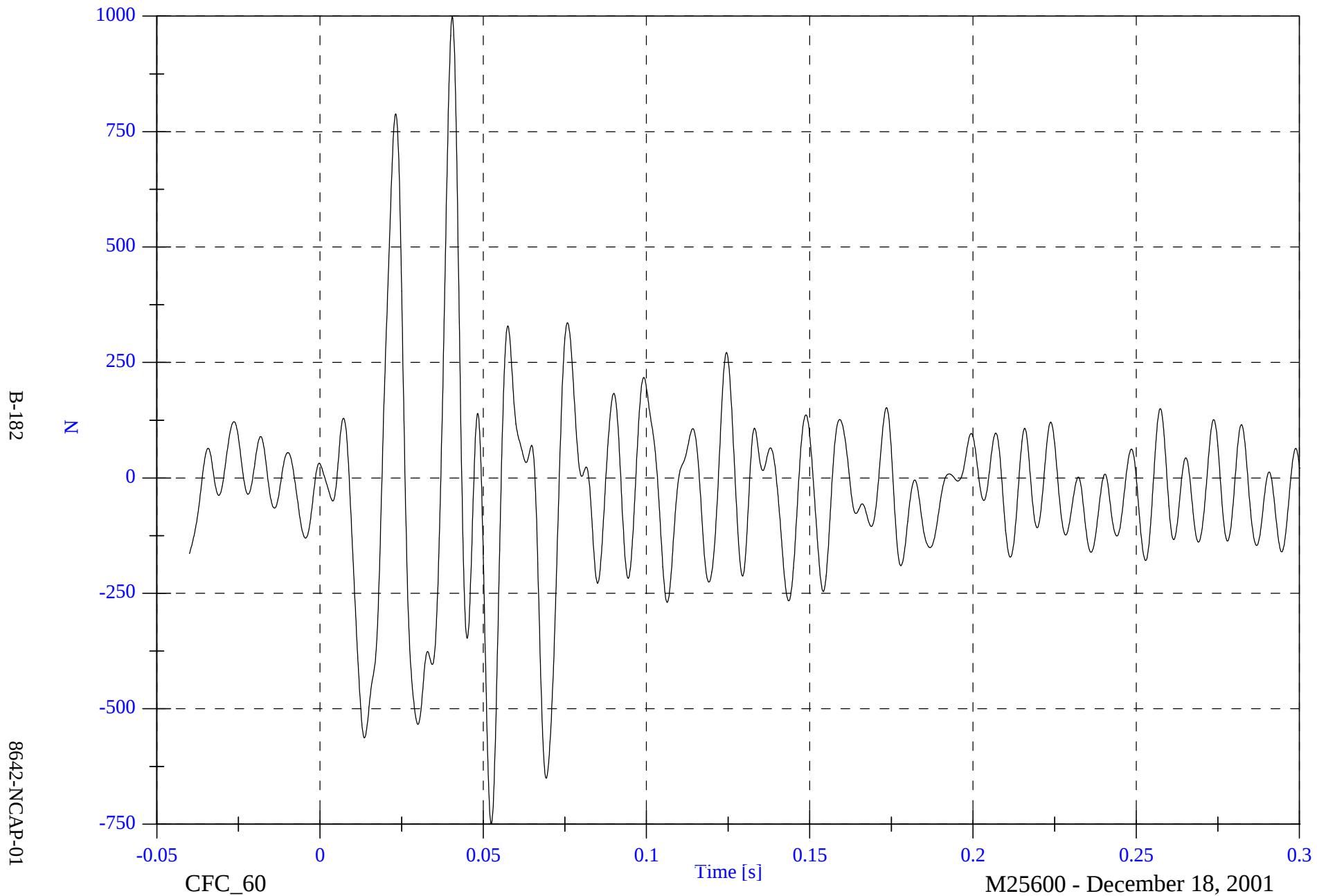


2002 NCAP Test 1 - 2002 Mitsubishi Eclipse

Barrier Load Cell D9 Fx

Max: 998.5 [N] at 0.040 [s]

Min: -749.6 [N] at 0.052 [s]

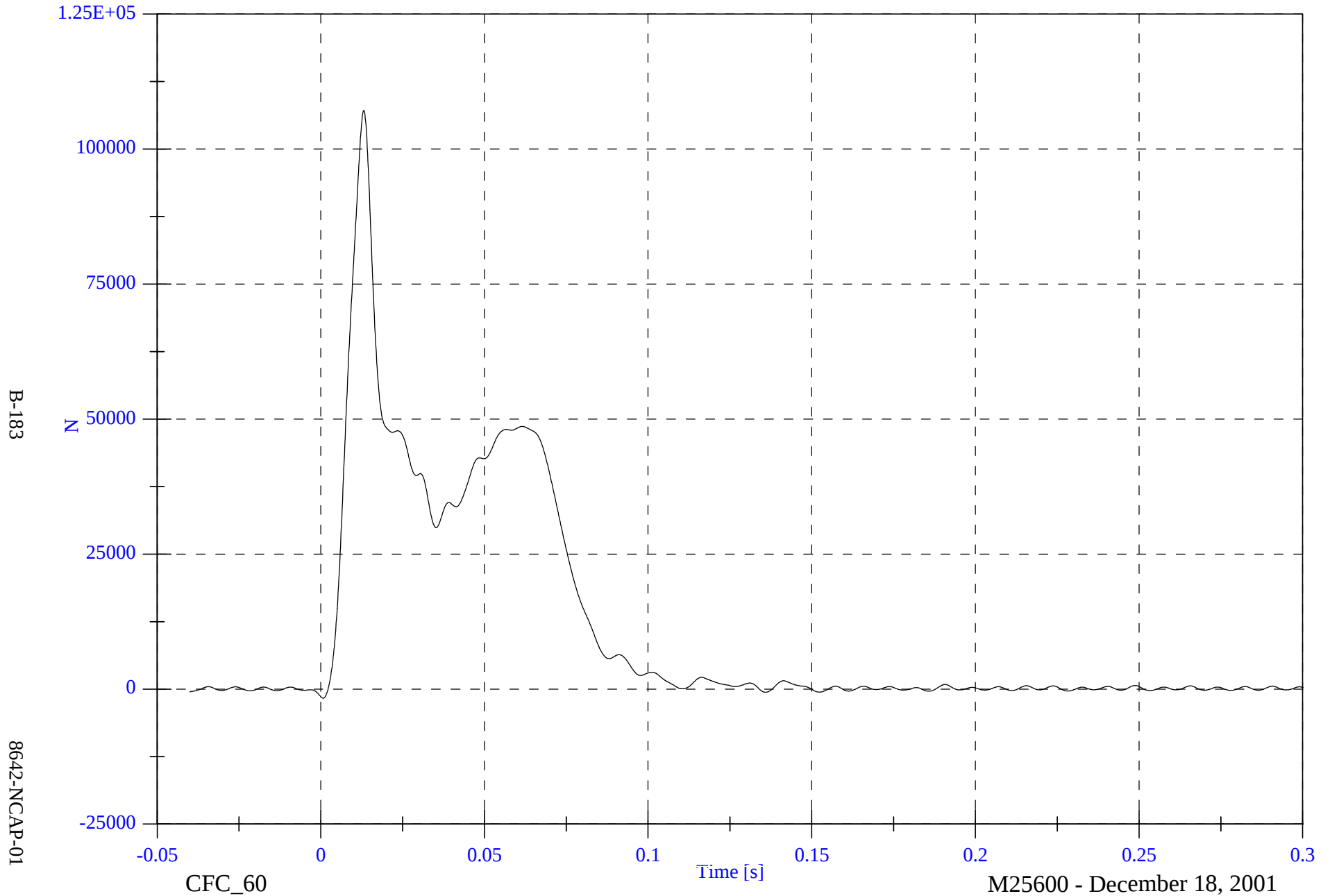


2002 NCAP Test 1 - 2002 Mitsubishi Eclipse

Group 1 Load Cell Sum (A1,A2,A3,B1,B2,B3)

Max: 107172.6 [N] at 0.013 [s]

Min: -1697.9 [N] at 0.001 [s]

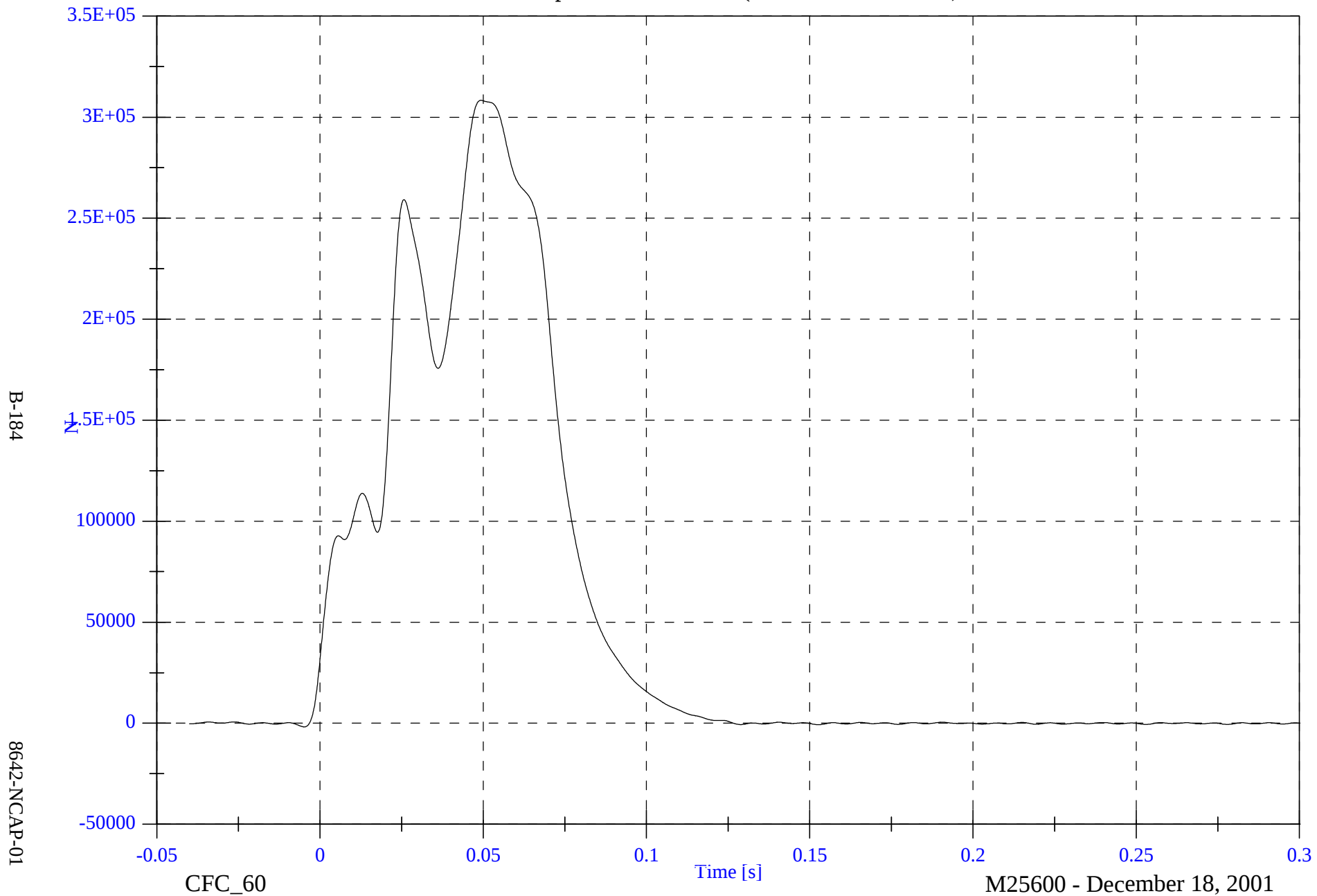


2002 NCAP Test 1 - 2002 Mitsubishi Eclipse

Group 2 Load Cell Sum (A4,A5,A6,B4,B5,B6)

Max: 308360.4 [N] at 0.049 [s]

Min: -1812.7 [N] at -0.005 [s]

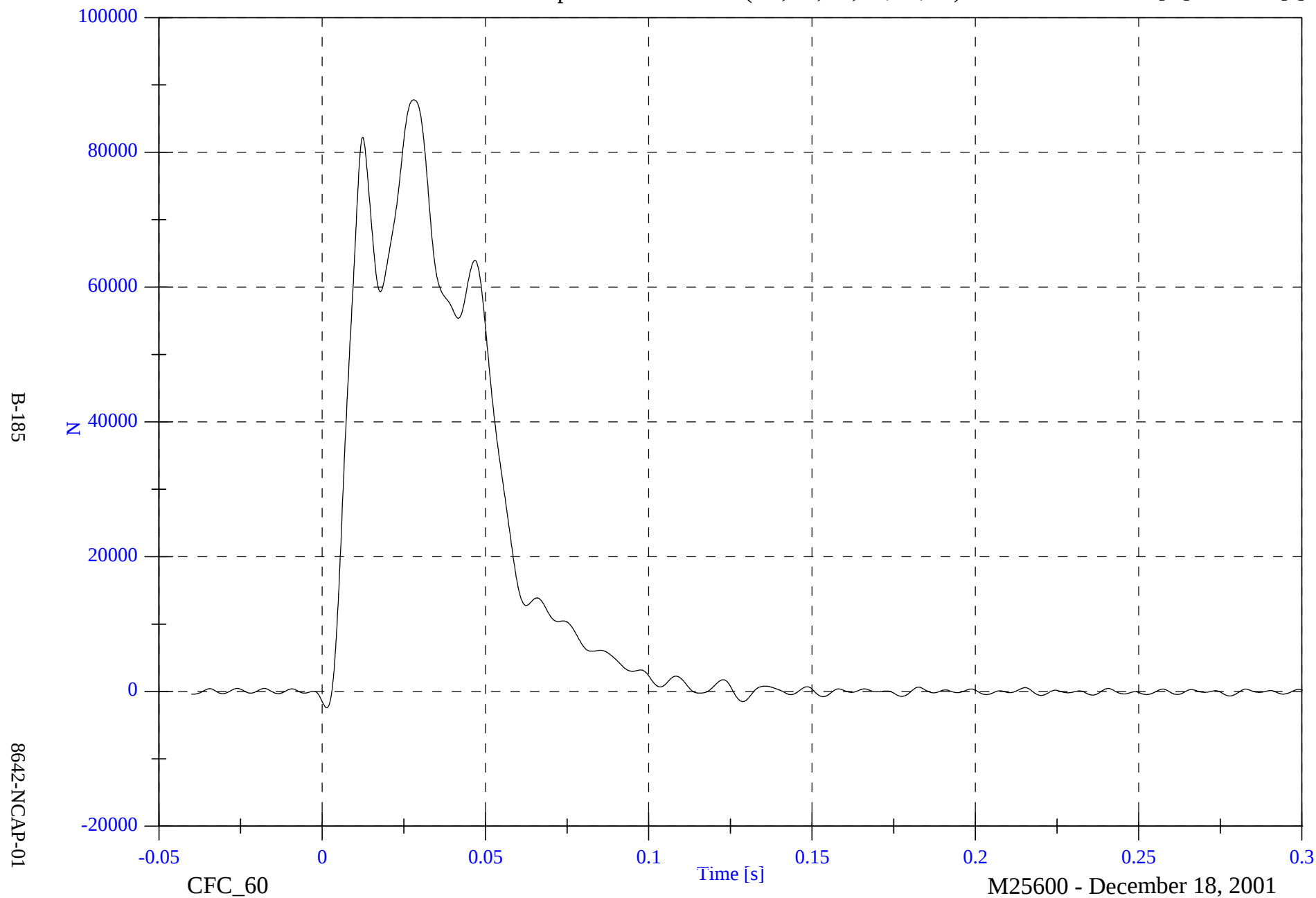


2002 NCAP Test 1 - 2002 Mitsubishi Eclipse

Group 3 Load Cell Sum (A7,A8,A9,B7,B8,B9)

Max: 87796.2 [N] at 0.028 [s]

Min: -2422.7 [N] at 0.001 [s]

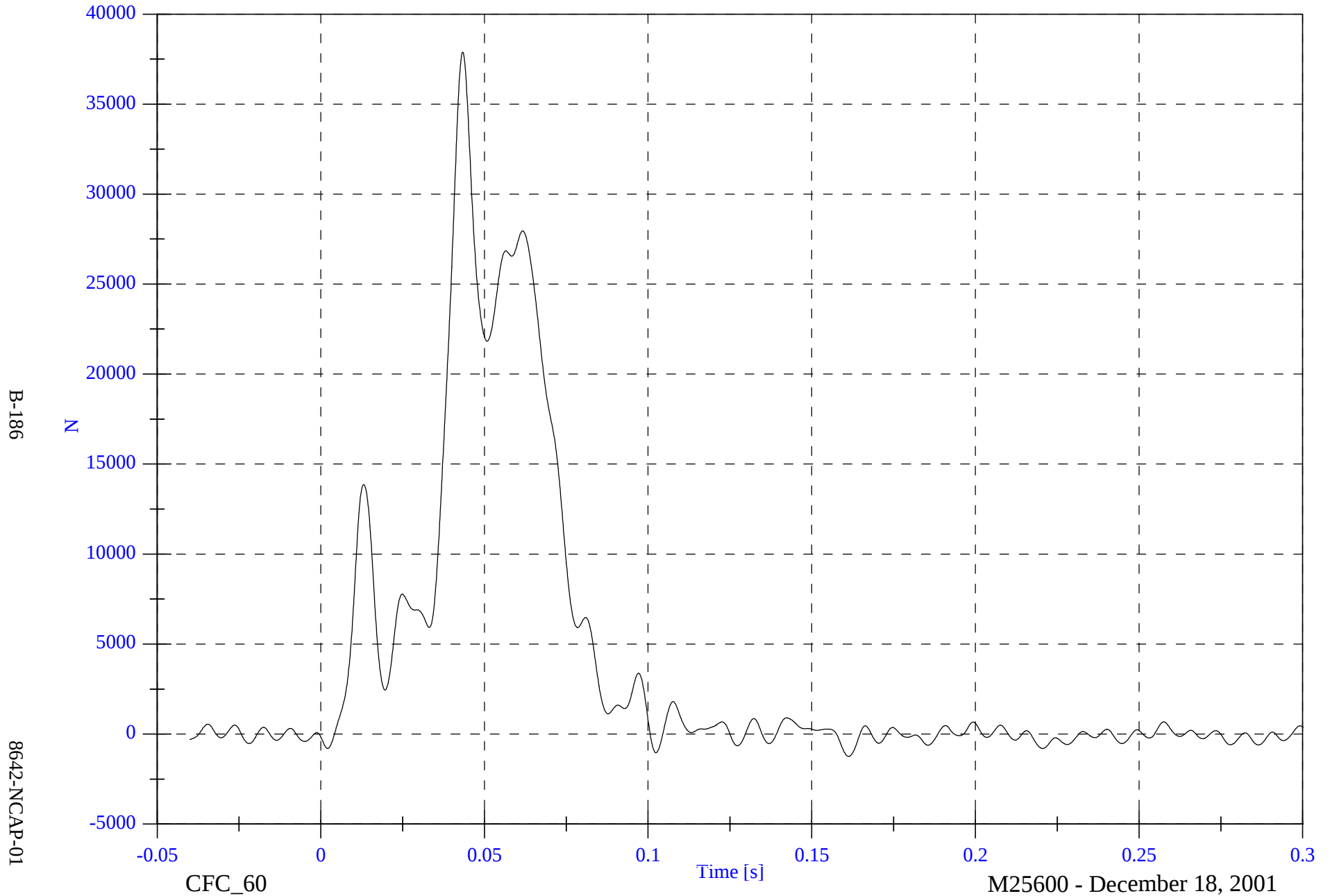


2002 NCAP Test 1 - 2002 Mitsubishi Eclipse

Group 4 Load Cell Sum (C1,C2,C3,D1,D2,D3)

Max: 37885.4 [N] at 0.043 [s]

Min: -1242.8 [N] at 0.161 [s]

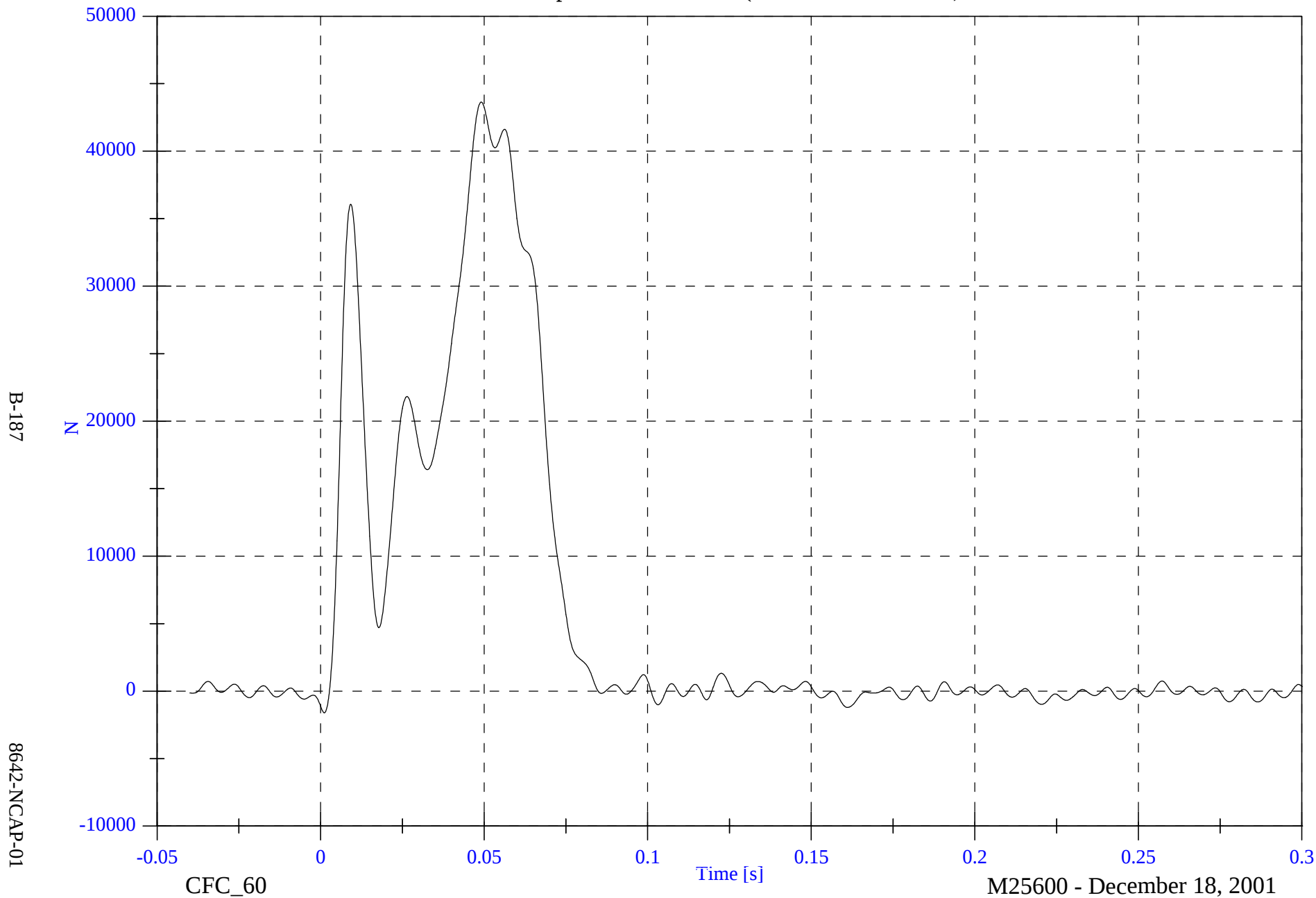


2002 NCAP Test 1 - 2002 Mitsubishi Eclipse

Group 5 Load Cell Sum (C4,C5,C6,D4,D5,D6)

Max: 43641.7 [N] at 0.049 [s]

Min: -1611.4 [N] at 0.001 [s]

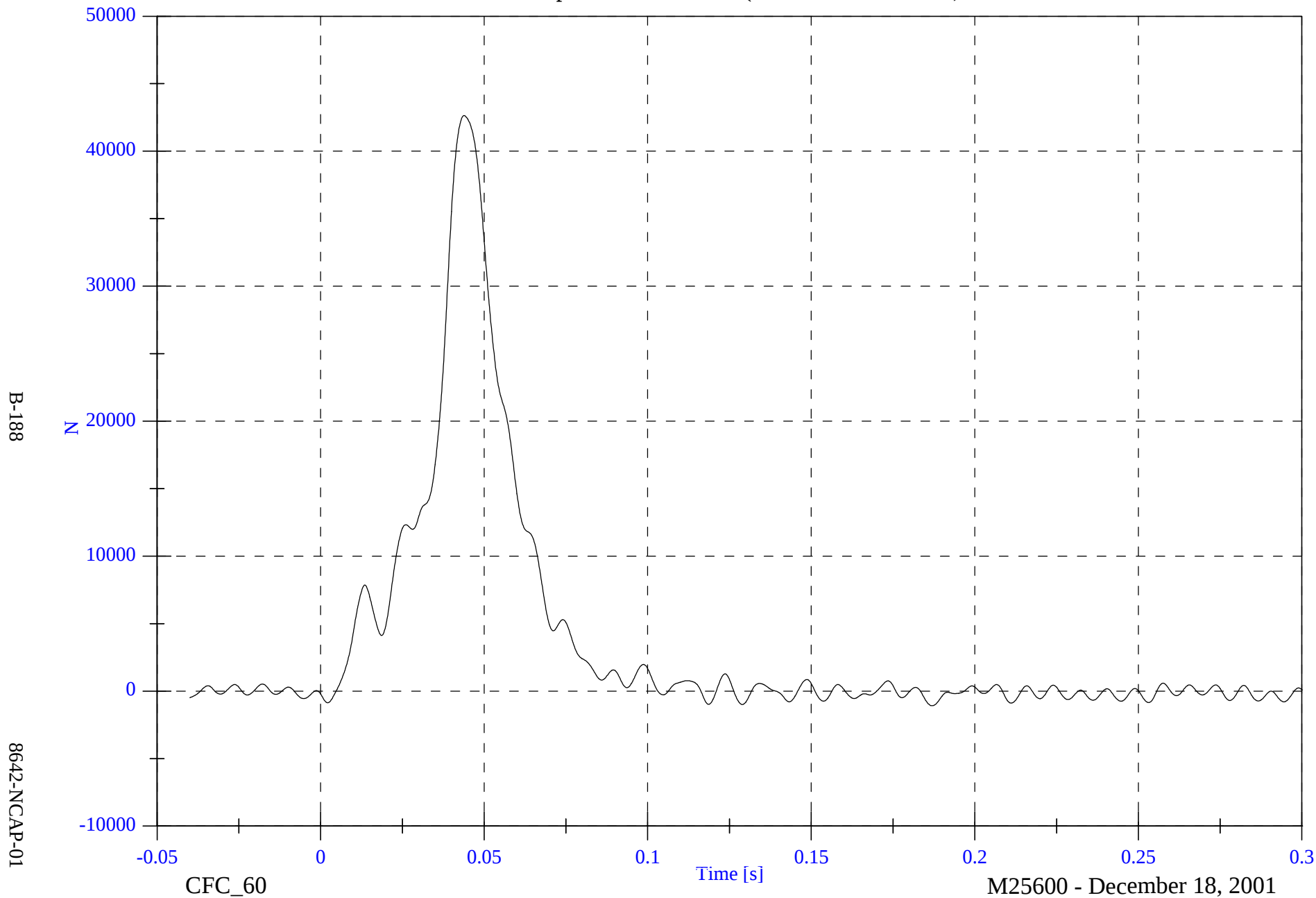


2002 NCAP Test 1 - 2002 Mitsubishi Eclipse

Group 6 Load Cell Sum (C7,C8,C9,D7,D8,D9)

Max: 42643.3 [N] at 0.044 [s]

Min: -1087.6 [N] at 0.187 [s]

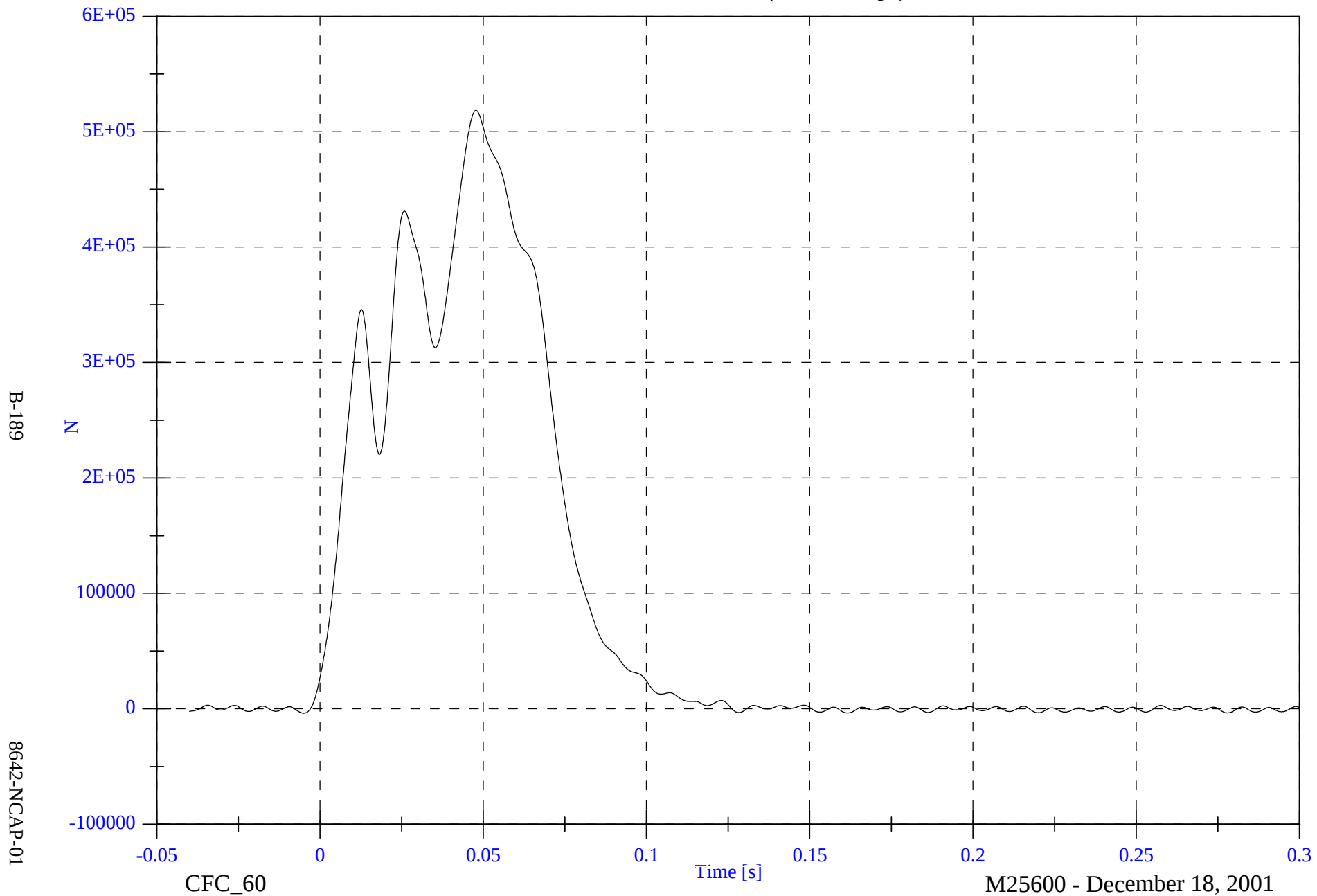


2002 NCAP Test 1 - 2002 Mitsubishi Eclipse

Total Load Cell Sum (All 6 Groups)

Max: 518438.4 [N] at 0.048 [s]

Min: -3816.2 [N] at -0.005 [s]



APPENDIX C

PART 572B/E DUMMY CONFIGURATION AND PERFORMANCE VERIFICATION DATA SHEETS

Appendix C contains the results from certification tests performed on the 50th percentile male anthropomorphic test devices utilized for this crash test. The results indicate that the dummies meet all of the performance requirements of the six standard tests as specified in 49 CFR Part 572, Federal Register, Volume 42, No. 25, dated February 7, 1977.

The tests were conducted at the Dummy Certification Test Facility of Veridian Engineering. A summary of the test results, and Part 572 specifications are included in this Appendix.

Dummy serial numbers and certification dates are:

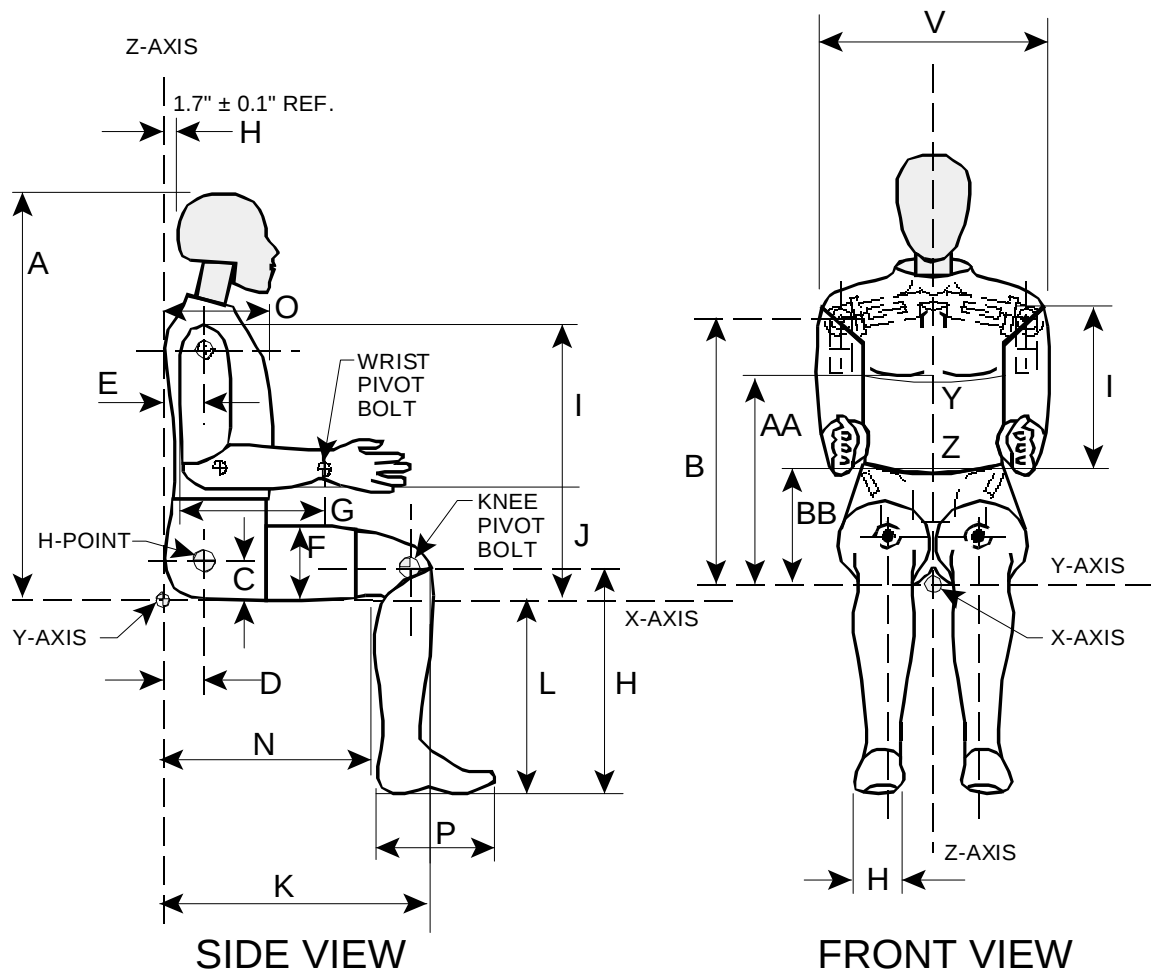
<u>Position No./Location</u>	<u>Serial No.</u>	<u>Completion Date</u>
#1/Driver	061	10/24/01
#2/Right Front Passenger	064	10/24/01

Electronic Test Equipment

The complement of signal conditioning, recording and display equipment, in conjunction with dummy certification testing, can be found in New Car Assessment and Standards Inducant Testing Final Report No. 6525-V-1.

DUMMY CONFIGURATION DIMENSIONS

EXTERNAL DIMENSIONS SPECIFICATIONS



NOTE: Figure is referenced to the erect seated position. The curved lumbar does not allow the Hybrid III to be positioned in a perfect erect attitude.
(REF: S572.31(A)(6))

PART 572E
HEAD DROP TEST

Dummy Serial Number 061
Sequential Test Number 2
Date October 18, 2001
Workfile 016201.hdp

TEST PARAMETER	SPECIFICATION	TEST RESULTS
Temperature	66-78 Deg F	70
Relative Humidity	10% - 70%	31
Peak Resultant Acceleration	225-275 G's	229.30
Peak Lateral Acceleration	15 G's Max	8.79
Is Acceleration Curve Unimodal?	YES	YES

Remarks:

Laboratory Technician:

B. Swiecicki

PART 572E
NECK FLEXION TEST

Dummy Serial Number	061	
Sequential Test Number	2	
Date	October 22, 2001	6 Axis Neck Transducer
Workfile	061201.nfl	

TEST PARAMETER		SPECIFICATION	TEST RESULTS
Temperature		69-72 Deg F	70
Relative Humidity		10% - 70%	29
Impact Velocity		22.60 - 23.40 Ft/s	23.12
Pendulum Deceleration	10 ms	22.50 - 27.50 G's	23.14
	20 ms	17.60 - 22.60 G's	20.25
	30 ms	12.50 - 18.50 G's	17.08
Max Pendulum G's Above 30 ms		29 G's Max	17.08
Deceleration - Time Curve Decay Time to 5 G's		34 - 42 ms	40.88
D Plane Rotation	Max	64 - 78 Deg	70.27
	Time	57 - 64 ms	59.88
Moment About Occipital Condyle	Max	65 - 80 Ft-Lbs	79.52
	Time	47 - 58 ms	52.38
Rotation Angle - Time Curve Decay Time to Zero		113 - 128 ms	113.88
Positive Moment - Time Curve Decay Time to Zero		97 - 107 ms	98.12

Remarks:

Laboratory Technician:

B. Swiecicki

PART 572E
NECK EXTENSION TEST

Dummy Serial Number	061	
Sequential Test Number	2	
Date	October 22, 2001	6 Axis Neck Transducer
Workfile	061201.nex	

TEST PARAMETER		SPECIFICATION	TEST RESULTS
Temperature		69-72 Deg F	70
Relative Humidity		10% - 70%	29
Impact Velocity		19.50 - 20.30 Ft/s	19.85
Pendulum Deceleration	10 ms	17.20 - 21.20 G's	18.14
	20 ms	14.00 - 19.00 G's	17.32
	30 ms	11.00 - 16.00 G's	14.26
Max Pendulum G's Above 30 ms		22 G's Max	14.26
Deceleration - Time Curve Decay Time to 5 G's		38 - 46 ms	43.12
D Plane Rotation	Max	81 - 106 Deg	94.32
	Time	72 - 82 ms	75.62
Moment About Occipital Condyle	Max	-59.0 - -39.0 Ft-Lbs	-46.45
	Time	65 - 79 ms	71.25
Rotation Angle - Time Curve Decay Time to Zero		147 - 174 ms	153.50
Positive Moment - Time Curve Decay Time to Zero		120 - 148 ms	135.12

Remarks:

Laboratory Technician:

B. Swiecicki

PART 572E
THORAX IMPACT TEST

Dummy Serial Number 061
Sequential Test Number 2
Date October 24, 2001
Workfile 061201.th3

TEST PARAMETER	SPECIFICATION	TEST RESULTS
Temperature	69-72 Deg F	70.0
Relative Humidity	10% - 70%	32.0
Pendulum Velocity	21.6 - 22.4 Ft/s	22.2
Maximum Deflection	2.50 - 2.86 in	2.70
Maximum Resistive Force	1160 - 1325 Lbs	1162.38
Internal Hysteresis	69 - 85 %	79.62

Remarks:

Laboratory Technician:

B. Swiecicki

PART 572E
KNEE IMPACT TEST

Dummy Serial Number 061
Sequential Test Number 2
Date October 24, 2001
Workfile 061201.lf/061201.rf

TEST PARAMETER	SPECIFICATION	TEST RESULTS
LEFT KNEE		
Temperature	66 - 78 Deg F	70.0
Relative Humidity	10% - 70%	32.0
Probe Velocity	6.8 - 7.0 Ft/s	7.0
Peak Knee Impact Force	1060 - 1300 Lbs	1192.79
RIGHT KNEE		
Temperature	66 - 78 Deg F	70.0
Relative Humidity	10% - 70%	32.0
Probe Velocity	6.8 - 7.0 Ft/s	7.0
Peak Knee Impact Force	1060 - 1300 Lbs	1123.70

Remarks:

Laboratory Technician:

B. Swiecicki

PART 572E
EXTERNAL DIMENSIONS

Dummy Serial Number 061
Sequential Test Number 2
Date October 24, 2001

TEST PARAMETER		SPECIFICATION	TEST RESULTS
Temperature			70
Relative Humidity			31
Location for Chest Circumference	AA	16.9 - 17.1 in	17.0
Location for Waist Circumference	BB	8.9 - 9.1 in	9.0
Chest Circumference (With Jacket)	Y	38.2 - 39.4 in	39.2
Waist Circumference	Z	32.9 - 34.1 in	33.5
Chest Depth	O	8.4 - 9.0 in	8.4
H-Point Height	C	3.3 - 3.5 in	3.4
H-Point from Backline	D	5.3 - 5.5 in	5.4
Skull Cap to Backline	H	1.6 - 1.8 in	1.7
Total Sitting Height	A	34.6 - 35.0 in	34.9
Thigh Clearance	F	5.5 - 6.1 in	6.1
Buttock Knee Length	K	22.8 - 23.8 in	23.6
Buttock Popliteal Length	N	17.8 - 18.8 in	18.4
Popliteal Height	L	16.9 - 17.9 in	17.7
Knee Pivot Height	M	19.1 - 19.7 in	19.4
Foot Length	P	9.9 - 10.5 in	10.1
Foot Breadth	W	3.6 - 4.2 in	3.8
Shoulder Pivot from Backline	E	3.3 - 3.7 in	3.5
Shoulder Breadth	V	16.6 - 17.2 in	16.8
Shoulder Pivot Height	B	19.9 - 20.5 in	20.1
Elbow Rest Height	J	7.5 - 8.3 in	7.7
Shoulder - Elbow Length	I	13.0 - 13.6 in	13.4
Back of Elbow to Wrist Pivot	G	11.4 - 12.0 in	11.6

Remarks:

Laboratory Technician:

B. Swiecicki

PART 572E
HEAD DROP TEST

Dummy Serial Number 064
Sequential Test Number 2
Date October 18, 2001
Workfile 064201.hdp

TEST PARAMETER	SPECIFICATION	TEST RESULTS
Temperature	66-78 Deg F	70.0
Relative Humidity	10% - 70%	31.0
Peak Resultant Acceleration	225-275 G's	252.15
Peak Lateral Acceleration	15 G's Max	10.67
Is Acceleration Curve Unimodal?	YES	YES

Remarks:

Laboratory Technician:

B. Swiecicki

PART 572E
NECK FLEXION TEST

Dummy Serial Number	064	
Sequential Test Number	2	
Date	October 23, 2001	6 Axis Neck Transducer
Workfile	064201.nfl	

TEST PARAMETER		SPECIFICATION	TEST RESULTS
Temperature		69-72 Deg F	70.0
Relative Humidity		10% - 70%	32.0
Impact Velocity		22.60 - 23.40 Ft/s	23.12
Pendulum Deceleration	10 ms	22.50 - 27.50 G's	23.81
	20 ms	17.60 - 22.60 G's	21.05
	30 ms	12.50 - 18.50 G's	16.86
Max Pendulum G's Above 30 ms		29 G's Max	16.86
Deceleration - Time Curve Decay Time to 5 G's		34 - 42 ms	39.75
D Plane Rotation	Max	64 - 78 Deg	71.90
	Time	57 - 64 ms	59.12
Moment About Occipital Condyle	Max	65 - 80 Ft-Lbs	77.55
	Time	47 - 58 ms	52.12
Rotation Angle - Time Curve Decay Time to Zero		113 - 128 ms	113.62
Positive Moment - Time Curve Decay Time to Zero		97 - 107 ms	101.00

Remarks:

Laboratory Technician:

B. Swiecicki

PART 572E
NECK EXTENSION TEST

Dummy Serial Number	064	
Sequential Test Number	2	
Date	October 23, 2001	6 Axis Neck Transducer
Workfile	064201.nex	

TEST PARAMETER		SPECIFICATION	TEST RESULTS
Temperature		69-72 Deg F	70.0
Relative Humidity		10% - 70%	33.0
Impact Velocity		19.50 - 20.30 Ft/s	19.66
Pendulum Deceleration	10 ms	17.20 - 21.20 G's	18.64
	20 ms	14.00 - 19.00 G's	17.07
	30 ms	11.00 - 16.00 G's	14.31
Max Pendulum G's Above 30 ms		22 G's Max	14.31
Deceleration - Time Curve Decay Time to 5 G's		38 - 46 ms	42.88
D Plane Rotation	Max	81 - 106 Deg	96.10
	Time	72 - 82 ms	75.38
Moment About Occipital Condyle	Max	-59.0 - -39.0 Ft-Lbs	-45.20
	Time	65 - 79 ms	72.75
Rotation Angle - Time Curve Decay Time to Zero		147 - 174 ms	155.62
Positive Moment - Time Curve Decay Time to Zero		120 - 148 ms	135.25

Remarks:

Laboratory Technician:

B. Swiecicki

PART 572E
THORAX IMPACT TEST

Dummy Serial Number 064
Sequential Test Number 2
Date October 24, 2001
Workfile 064201.th3

TEST PARAMETER	SPECIFICATION	TEST RESULTS
Temperature	69-72 Deg F	70.0
Relative Humidity	10% - 70%	32.0
Pendulum Velocity	21.6 - 22.4 Ft/s	22.2
Maximum Deflection	2.50 - 2.86 in	2.68
Maximum Resistive Force	1160 - 1325 Lbs	1175.14
Internal Hysteresis	69 - 85 %	74.19

Remarks:

Laboratory Technician:

B. Swiecicki

PART 572E
KNEE IMPACT TEST

Dummy Serial Number 064
Sequential Test Number 2
Date October 24, 2001
Workfile 064201.lf/064201.rf

TEST PARAMETER	SPECIFICATION	TEST RESULTS
LEFT KNEE		
Temperature	66 - 78 Deg F	70.0
Relative Humidity	10% - 70%	32.0
Probe Velocity	6.8 - 7.0 Ft/s	7.0
Peak Knee Impact Force	1060 - 1300 Lbs	1200.36
RIGHT KNEE		
Temperature	66 - 78 Deg F	70.0
Relative Humidity	10% - 70%	32.0
Probe Velocity	6.8 - 7.0 Ft/s	7.0
Peak Knee Impact Force	1060 - 1300 Lbs	1118.79

Remarks:

Laboratory Technician:

B. Swiecicki

PART 572E
EXTERNAL DIMENSIONS

Dummy Serial Number 064
Sequential Test Number 2
Date October 24, 2001

TEST PARAMETER		SPECIFICATION	TEST RESULTS
Temperature			70
Relative Humidity			31
Location for Chest Circumference	AA	16.9 - 17.1 in	17.0
Location for Waist Circumference	BB	8.9 - 9.1 in	9.0
Chest Circumference (With Jacket)	Y	38.2 - 39.4 in	39.2
Waist Circumference	Z	32.9 - 34.1 in	33.6
Chest Depth	O	8.4 - 9.0 in	8.6
H-Point Height	C	3.3 - 3.5 in	3.4
H-Point from Backline	D	5.3 - 5.5 in	5.4
Skull Cap to Backline	H	1.6 - 1.8 in	1.7
Total Sitting Height	A	34.6 - 35.0 in	34.8
Thigh Clearance	F	5.5 - 6.1 in	6.0
Buttock Knee Length	K	22.8 - 23.8 in	23.6
Buttock Popliteal Length	N	17.8 - 18.8 in	18.4
Popliteal Height	L	16.9 - 17.9 in	17.3
Knee Pivot Height	M	19.1 - 19.7 in	19.4
Foot Length	P	9.9 - 10.5 in	10.1
Foot Breadth	W	3.6 - 4.2 in	3.8
Shoulder Pivot from Backline	E	3.3 - 3.7 in	3.6
Shoulder Breadth	V	16.6 - 17.2 in	16.8
Shoulder Pivot Height	B	19.9 - 20.5 in	20.4
Elbow Rest Height	J	7.5 - 8.3 in	8.0
Shoulder - Elbow Length	I	13.0 - 13.6 in	13.3
Back of Elbow to Wrist Pivot	G	11.4 - 12.0 in	11.6

Remarks:

Laboratory Technician:

B. Swiecicki

APPENDIX D

DUMMY, VEHICLE AND LABORATORY INSTRUMENT CALIBRATION

INSTRUMENT CALIBRATION FOR DRIVER DUMMY
(Six Month Calibration Minimum)

DRIVER DUMMY (S/N 061)		Manufacturer	Serial #	Calibration	
				Last	Next
Head 9 Array X Arm Y		ENDEVCO	AC-P18558	28-Aug-01	28-Feb-02
Head 9 Array X Arm Z		ENDEVCO	AC-P19212	28-Aug-01	28-Feb-02
Head 9 Array Y Arm X		ENDEVCO	AC-P19197	28-Aug-01	28-Feb-02
Head 9 Array Y Arm Z		ENDEVCO	AC-P18738	29-Aug-01	28-Feb-02
Head 9 Array Z Arm X		ENDEVCO	AC-P19217	28-Aug-01	28-Feb-02
Head 9 Array Z Arm Y		ENDEVCO	AC-P18739	29-Aug-01	28-Feb-02
Head	X	ENDEVCO	AC-P23276	01-Oct-01	01-Apr-02
	Y	ENDEVCO	AC-P22943	01-Oct-01	01-Apr-02
	Z	ENDEVCO	AC-P23134	24-Sep-01	24-Mar-02
Head	X (R)	ENDEVCO	AC-P23288	01-Oct-01	01-Apr-02
	Y (R)	ENDEVCO	AC-P23471	01-Oct-01	01-Apr-02
	Z (R)	ENDEVCO	AC-P18948	01-Oct-01	01-Apr-02
Neck Load Cell	X	DENTON	LC-205Fx	12-Jul-01	12-Jan-02
	Y	DENTON	LC-205Fy	12-Jul-01	12-Jan-02
	Z	DENTON	LC-205Fz	12-Jul-01	12-Jan-02
Neck Moment	X	DENTON	LC-205Mx	12-Jul-01	12-Jan-02
	Y	DENTON	LC-205My	12-Jul-01	12-Jan-02
	Z	DENTON	LC-205Mz	12-Jul-01	12-Jan-02
Chest	X	ENDEVCO	AC-P21373	24-Sep-01	24-Mar-02
	Y	ENDEVCO	AC-P22639	01-Oct-01	01-Apr-02
	Z	ENDEVCO	AC-P21297	24-Sep-01	24-Mar-02
Chest	X (R)	ENDEVCO	AC-P21171	24-Sep-01	24-Mar-02
	Y (R)	ENDEVCO	AC-P23136	11-Oct-01	11-Apr-02
	Z (R)	ENDEVCO	AC-P23128	24-Sep-01	24-Mar-02
Chest Deflection Gauge		SERVO	DS-061	16-Oct-01	16-Apr-02
Pelvic	X	ENDEVCO	AC-P21441	24-Sep-01	24-Mar-02
	Y	ENDEVCO	AC-P19246	24-Sep-01	24-Mar-02
	Z	ENDEVCO	AC-P21516	24-Sep-01	24-Mar-02

INSTRUMENT CALIBRATION FOR DRIVER DUMMY
(Six Month Calibration Minimum)

DRIVER DUMMY (S/N 061)		Manufacturer	Serial #	Calibration	
				Last	Next
Left Femur Load Cell		GSE	LC-659	24-Jul-01	24-Jan-02
Right Femur Load Cell		GSE	LC-723	24-Jul-01	24-Jan-02
Left Knee Shear		SpaceAge Control	DS-821	02-Feb-01	02-Aug-01
Right Knee Shear		SpaceAge Control	DS-817	02-Feb-01	02-Aug-01
Left Upper Tibia	Mx	DENTON	LC-016Mx	05-Sep-01	05-Mar-02
	My	DENTON	LC-016My	05-Sep-01	05-Mar-02
Left Lower Tibia	Fz	DENTON	LC-123Fz	05-Sep-01	05-Mar-02
	Mx	DENTON	LC-123Mx	05-Sep-01	05-Mar-02
	My	DENTON	LC-123My	05-Sep-01	05-Mar-02
Right Upper Tibia	Mx	DENTON	LC-023Mx	05-Sep-01	05-Mar-02
	My	DENTON	LC-023My	05-Sep-01	05-Mar-02
Right Lower Tibia	Fz	DENTON	LC-111Fz	05-Sep-01	05-Mar-02
	Mx	DENTON	LC-111Mx	05-Sep-01	05-Mar-02
	My	DENTON	LC-111My	05-Sep-01	05-Mar-02
Left Foot Rear	X	ENDEVCO	AC-P19343	27-Aug-01	27-Feb-02
	Z	ENDEVCO	AC-P16583	27-Aug-01	27-Feb-02
Left Foot Front	Z	ENDEVCO	AC-P18728	27-Aug-01	27-Feb-02
Right Foot Rear	X	ENDEVCO	AC-P18628	27-Aug-01	27-Feb-02
	Z	ENDEVCO	AC-P18741	27-Aug-01	27-Feb-02
Right Foot Front	Z	ENDEVCO	AC-P16587	27-Aug-01	27-Feb-02
Lap Belt Load Cells		LEBOW	LC-706	24-Jul-01	24-Jan-02
Shoulder Belt Load Cells		LEBOW	LC-707	24-Jul-01	24-Jan-02
Belt Stretch Transducer		CAL	DS-E6	11-Oct-01	11-Apr-02

INSTRUMENT CALIBRATION FOR PASSENGER DUMMY
(Six Month Calibration Minimum)

PASSENGER DUMMY (S/N 064)		Manufacturer	Serial #	Calibration	
				Last	Next
Head 9 Array X Arm Y		ENDEVCO	AC-P17531	29-Aug-01	28-Feb-02
Head 9 Array X Arm Z		ENDEVCO	AC-P14965	29-Aug-01	28-Feb-02
Head 9 Array Y Arm X		ENDEVCO	AC-P17563	29-Aug-01	28-Feb-02
Head 9 Array Y Arm Z		ENDEVCO	AC-P18551	29-Aug-01	28-Feb-02
Head 9 Array Z Arm X		ENDEVCO	AC-P17539	29-Aug-01	28-Feb-02
Head 9 Array Z Arm Y		ENDEVCO	AC-P18718	29-Aug-01	28-Feb-02
Head	X	ENDEVCO	AC-P23138	24-Sep-01	24-Mar-02
	Y	ENDEVCO	AC-P19111	24-Sep-01	24-Mar-02
	Z	ENDEVCO	AC-P21392	24-Sep-01	24-Mar-02
Head	X (R)	ENDEVCO	AC-P19253	24-Sep-01	24-Mar-02
	Y (R)	ENDEVCO	AC-P21135	24-Sep-01	24-Mar-02
	Z (R)	ENDEVCO	AC-P23161	24-Sep-01	24-Mar-02
Neck Load Cell	X	DENTON	LC-440Fx	11-Jul-01	11-Jan-02
	Y	DENTON	LC-440Fy	11-Jul-01	11-Jan-02
	Z	DENTON	LC-440Fz	11-Jul-01	11-Jan-02
Neck Moment	X	DENTON	LC-440Mx	12-Jul-01	12-Jan-02
	Y	DENTON	LC-440My	12-Jul-01	12-Jan-02
	Z	DENTON	LC-440Mz	11-Jul-01	11-Jan-02
Chest	X	ENDEVCO	AC-P23155	24-Sep-01	24-Mar-02
	Y	ENDEVCO	AC-P23358	01-Oct-01	01-Apr-02
	Z	ENDEVCO	AC-P23282	01-Oct-01	01-Apr-02
Chest	X (R)	ENDEVCO	AC-P21484	24-Sep-01	24-Mar-02
	Y (R)	ENDEVCO	AC-P23465	01-Oct-01	01-Apr-02
	Z (R)	ENDEVCO	AC-P21399	24-Sep-01	24-Mar-02
Chest Deflection Gauge		SERVO	DS-064	17-Oct-01	17-Apr-02
Pelvic	X	ENDEVCO	AC-P23174	24-Sep-01	24-Mar-02
	Y	ENDEVCO	AC-P23164	24-Sep-01	24-Mar-02
	Z	ENDEVCO	AC-P23137	24-Sep-01	24-Mar-02

INSTRUMENT CALIBRATION FOR PASSENGER DUMMY
(Six Month Calibration Minimum)

PASSENGER DUMMY (S/N 064)		Manufacturer	Serial #	Calibration	
				Last	Next
Left Femur Load Cell		GSE	LC-954	24-Jul-01	24-Jan-02
Right Femur Load Cell		GSE	LC-955	24-Jul-01	24-Jan-02
Left Knee Shear		SpaceAge Control	DS-819	02-Feb-01	02-Aug-01
Right Knee Shear		SpaceAge Control	DS-815	02-Feb-01	02-Aug-01
Left Upper Tibia	Mx	DENTON	LC-045Mx	05-Sep-01	05-Mar-02
	My	DENTON	LC-045My	05-Sep-01	05-Mar-02
Left Lower Tibia	Fz	DENTON	LC-125Fz	05-Sep-01	05-Mar-02
	Mx	DENTON	LC-125Mx	05-Sep-01	05-Mar-02
	My	DENTON	LC-125My	05-Sep-01	05-Mar-02
Right Upper Tibia	Mx	DENTON	LC-038Mx	05-Sep-01	05-Mar-02
	My	DENTON	LC-038My	05-Sep-01	05-Mar-02
Right Lower Tibia	Fz	DENTON	LC-124Fz	05-Sep-01	05-Mar-02
	Mx	DENTON	LC-124Mx	05-Sep-01	05-Mar-02
	My	DENTON	LC-124My	05-Sep-01	05-Mar-02
Left Foot Rear	X	ENDEVCO	AC-J30491	28-Aug-01	28-Feb-02
	Z	ENDEVCO	AC-J31026	28-Aug-01	28-Feb-02
Left Foot Front	Z	ENDEVCO	AC-J32831	28-Aug-01	28-Feb-02
Right Foot Rear	X	ENDEVCO	AC-J33376	28-Aug-01	28-Feb-02
	Z	ENDEVCO	AC-J32832	28-Aug-01	28-Feb-02
Right Foot Front	Z	ENDEVCO	AC-J31095	28-Aug-01	28-Feb-02
Lap Belt Load Cells		LEBOW	LC-711	24-Jul-01	24-Jan-02
Shoulder Belt Load Cells		LEBOW	LC-712	24-Jul-01	24-Jan-02
Belt Stretch Transducer		CAL	DS-E5	11-Oct-01	11-Apr-02

INSTRUMENT CALIBRATION FOR VEHICLE ACCELEROMETERS
(Six Month Calibration Minimum)

	Manufacturer	Serial #	Calibration	
			Last	Next
Left Seat Rear Crossmember	ICS	AC-Y05	30-Oct-01	30-Apr-02
Right Rear Seat Crossmember	ICS	AC-D30	30-Oct-01	30-Apr-02
Top of Engine	ENDEVCO	AC-AA35	01-Oct-01	01-Apr-02
Bottom of Engine	ENDEVCO	AC-B11407	29-Aug-01	28-Feb-02
Right Disc Brake Caliper	ENDEVCO	AC-B10827	29-Aug-01	28-Feb-02
Instrument Panel	ENDEVCO	AC-B11408	29-Aug-01	28-Feb-02
Left Disc Brake Caliper	ENDEVCO	AC-A13513	29-Aug-01	28-Feb-02
Left Seat Rear Crossmember Z	ENDEVCO	AC-B10481	25-Sep-01	25-Mar-02
Right Seat Rear Crossmember Z	ENDEVCO	AC-A14433	25-Sep-01	25-Mar-02