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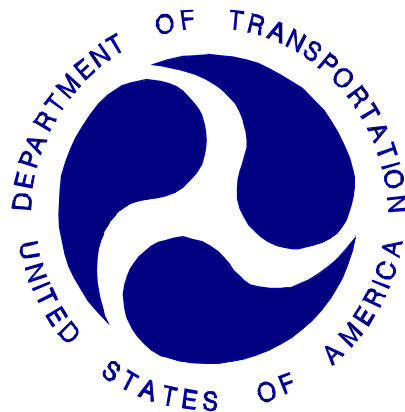
**NEW CAR ASSESSMENT PROGRAM
SIDE IMPACT TEST**

**NISSAN MOTOR CO.,LTD.
2004 INFINITI FX35
SUV**

NHTSA NUMBER: M45203

GENERAL DYNAMICS TEST NUMBER: 8725-SNCAP-03

**ADVANCED INFORMATION ENGINEERING SERVICES
A GENERAL DYNAMICS COMPANY
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March 12, 2004

FINAL REPORT

U. S. DEPARTMENT OF TRANSPORTATION
National Highway Traffic Safety Administration
Rulemaking
Office of Crashworthiness Standards
Mail Code: NVS-111
400 Seventh Street, SW, Room No. 5313
Washington, DC 20590

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Acceptance Date:

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16. Abstract A 55/28 kph 90° Impact Moving Deformable Barrier NCAP Side Impact Test was conducted on the subject 2004 Infiniti FX35 SUV in accordance with the specifications of the Office of Crashworthiness Standards Test Procedure for the generation of consumer information on vehicle side crash protection. This test was conducted at the General Dynamics Advanced Information Engineering Services Crash Test Facility in Buffalo, New York, on March 12, 2004. The impact velocity of the Moving Deformable Barrier (MDB) was 61.8 kph, and the ambient temperature at the struck (driver's) side of the target vehicle at the time of impact was 21°C. The target vehicle post-test maximum crush was 300 mm at level 3. The test or target vehicle's performance is given below: <table border="0"> <thead> <tr> <th></th> <th><u>Front SID H3</u></th> <th></th> <th><u>Rear SID H3</u></th> <th></th> </tr> </thead> <tbody> <tr> <td>Left Upper Rib Acceleration:</td> <td>40.8</td> <td>g's</td> <td>44.3</td> <td>g's</td> </tr> <tr> <td>Left Lower Rib Acceleration:</td> <td>33.0</td> <td>g's</td> <td>41.9</td> <td>g's</td> </tr> <tr> <td>Lower Spine Acceleration:</td> <td>40.3</td> <td>g's</td> <td>50.2</td> <td>g's</td> </tr> <tr> <td>Thoracic Trauma Index (TTI):</td> <td>41</td> <td>g's</td> <td>47</td> <td>g's</td> </tr> <tr> <td>Pelvis Acceleration (PEV):</td> <td>69</td> <td>g's</td> <td>60</td> <td>g's</td> </tr> </tbody> </table> The rear door on the struck side of the vehicle separated from the body at the latch and the opposite doors did not open during the side impact event.					<u>Front SID H3</u>		<u>Rear SID H3</u>		Left Upper Rib Acceleration:	40.8	g's	44.3	g's	Left Lower Rib Acceleration:	33.0	g's	41.9	g's	Lower Spine Acceleration:	40.3	g's	50.2	g's	Thoracic Trauma Index (TTI):	41	g's	47	g's	Pelvis Acceleration (PEV):	69	g's	60	g's
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17. Key Words New Car Assessment Program (NCAP) Side Impact MDB Side Impact Dummy Hybrid (SID HIII)		18. Distribution Statement <u>Copies of this report are available from:</u> National Highway Traffic Safety Administration Technical Reference Division Room 5108 (NAD-52) 400 Seventh St., S.W. Washington, D.C. 20590 Telephone No. (202) 366-4946 ATTN: Robert Hornicle																															
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SECTION 1

PURPOSE AND TEST PROCEDURE

This side impact test is part of the FY2004 New Car Assessment Program Side Impact Protection sponsored by the National Highway Traffic Safety Administration (NHTSA) under Contract No. DTNH22-98-D-02001. The purpose of this test was to generate comparative side impact performance in a 2004 Infiniti FX35 SUV. The test was conducted in accordance with the Office of Crashworthiness Standards' Laboratory Test Procedure dated July 1997.

SECTION 2

SUMMARY OF SIDE IMPACT TEST

A 2004 Infiniti FX35 SUV was impacted on the left or driver's side by a Moving Deformable Barrier (MDB) which was moving forward in a 27° crabbed position to the monorail at a velocity of 61.8 kph (38.4 mph). The target vehicle was stationary and was positioned at an angle of 63° to the line of forward motion. The side impact test was conducted by the General Dynamics Advanced Information Engineering Services in Buffalo, New York on March 12, 2004. Pre- and post-test photographs of the test vehicle, the moving deformable barrier (MDB), and the Side Impact Hybrid III Dummies (SID H3s) are included in Appendix A.

Two restrained Side Impact Hybrid III Dummies (SID H3s) were placed in the driver (Pos. #1) and left rear (Pos. #4) designated seating positions according to the instructions specified in the OCWS Side Impact Laboratory Test Procedure which is dated July, 1997. The side impact test was documented by one real-time camera and 10 high-speed cameras. Camera locations and other pertinent camera information are included in this report.

The SID H3s were instrumented with the following accelerometers:

1. Left Upper Rib (LUR) uniaxial and redundant accelerometer (Y-direction)
2. Left Lower Rib (LLR) uniaxial and redundant accelerometer (Y-direction)
3. Lower Thoracic Spine (T₁₂) uniaxial and redundant accelerometer (Y-direction)
4. Pelvic (PEV) section uniaxial and redundant accelerometer (Y-direction)
5. Head triaxial accelerometers (X-, Y- and Z-direction)
6. Upper neck force and moment (X-, Y and Z-direction) load cells

A summary of the Side Impact Hybrid III Dummy (SID H3) configuration and verification test data can be found in Appendix C. A total of 65 channels of data were recorded. Appendix B contains the vehicle, MDB and dummy response data traces.

The following table summarizes the results of the test.

Injury Criteria	Front SID H3	Rear SID H3
TTI (g)	41	47
PEV (g)	69	60

AIR BAG DEPLOYMENT STATUS

	DRIVER	FRONT PASSENGER	REAR PASSENGER
Front Air Bag	Deployed	Deployed	None
Knee Bolster Bag	None	None	None
Side Air Bag	Deployed	Not Activated	None
Side Curtain Bag	Deployed	Not Activated	Deployed

AUTOMATIC DOOR LOCK SUMMARY

ADL Equipped Test Vehicle:	No
ADL Activation Status:	N/A
Struck Side Door Lock Condition:	Unlocked

SECTION 3

SUMMARY OF TEST RESULTS

DATA SHEET 1

GENERAL TEST AND VEHICLE PARAMETER DATA

TEST VEHICLE INFORMATION:

Year/Make/Model/Body Style: 2004 Infiniti FX35 SUV
 Vehicle Body Color: Black VIN: JNRS08W14X214239
 Vehicle NHTSA No.: M45203 Month & Year of Manufacture: 12/03
 Engine Data: 6 Cylinders; - CID; 3.5 Liters; - cc
 Engine Placement: - Longitudinal; or x Lateral
 Transmission: 5 Speed; - Manual; x Automatic; - Overdrive
 Final Drive: - Rear Wheel Drive; - Front Wheel Drive; x Four Wheel Drive
 Odometer Reading 138 km
 Supplemental Airbag Restraints:
 Front Occupant: x Frontal; - Knee; x Side; x Curtain
 Rear Occupant: x Frontal; - Knee; - Side; x Curtain
 Options:
- ADL; x A/C; x Power Steering; x Power Brakes; x Power Windows

DATA FROM TIRE PLACARD

Recommended Tire Size: P265/60R18

* Recommended Cold Tire Pressure: 220 kPa FRONT; 220 kPa REAR

DATA FROM TIRE SIDEWALL:

Size of Tires on Test Vehicle: P265/60R18; Manufacturer: Bridgestone

Tire Pressure with Maximum Capacity Vehicle Load: Front: 220 kPa; Rear: 220 kPa

Treadwear: 260; Traction: A; Temperature: A

VEHICLE CAPACITY DATA:

Number of Occupants: 2 Front; 3 Rear; 0 3rd Seat; 5 Total

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

Type of Front Seat Back: - Fixed; x Adjustable with - Lever or x Knob

Vehicle Max Capacity Loading = 431 kg (A)

No. of Occupants x 68.04 kg. = 340.2 kg (B)

Vehicle Cargo Capacity = 90.8 kg (A-B)

TEST VEHICLE DELIVERED WEIGHT WITH MAXIMUM FLUIDS:

Left Front = 511 kg Left Rear = 467 kg

Right Front = 522 kg Right Rear = 461 kg

TOTAL FRONT = 1033.0 kg TOTAL REAR = 928.0 kg

% of Total Weight = 52.7% % % of Total Weight = 47.3 %

TOTAL WEIGHT = 1961.0 kg

* Tire pressure used in test.

DATA SHEET 1 (continued)

GENERAL TEST VEHICLE PARAMETER DATA

Vehicle: 2004 Infiniti FX35 SUV

NHTSA No. M45203

CALCULATION OF VEHICLE'S TARGET TEST WEIGHT:

Total Test Vehicle Delivered Weight with Max. Fluids	=	<u>1961.0</u>	kg (A)
Maximum Cargo Carrying Capacity of Test Vehicle	=	<u>90.8</u>	kg (B)
Weight of instrumented SID H3 Dummies (2 X 81.2 kg)	=	<u>162.4</u>	kg (C)
TEST VEHICLE TARGET WEIGHT:	=	<u>2214.2</u>	kg (A+B+C)

FULLY LOADED TEST VEHICLE (UDVW + 1 or 2 SID H3(s) + CARGO):

Left Front	=	<u>563</u>	kg	Left Rear	=	<u>585</u>	kg
Right Front	=	<u>523</u>	kg	Right Rear	=	<u>546</u>	kg
TOTAL FRONT	=	<u>1086.0</u>	kg	TOTAL REAR	=	<u>1131.0</u>	kg
% of Total Weight	=	<u>49.0%</u>	%	% of Total Weight	=	<u>51.0%</u>	%
TOTAL TEST WEIGHT =		<u>2217.0</u>	kg				

AS TESTED WEIGHT OF TEST VEHICLE (1 OR 2 SID H3(s) + CARGO + EQUIPMENT & INSTRUMENTATION):

Left Front	=	<u>572</u>	kg	Left Rear	=	<u>564</u>	kg
Right Front	=	<u>531</u>	kg	Right Rear	=	<u>540</u>	kg
TOTAL FRONT	=	<u>1103.0</u>	kg	TOTAL REAR	=	<u>1104.0</u>	kg
% of Total Weight	=	<u>49.9%</u>	%	% of Total Weight	=	<u>49.9%</u>	%
TOTAL TEST WEIGHT =		<u>2207</u>	kg				

TEST VEHICLE ATTITUDE (all dimensions in millimeters):

AS DELIVERED:

Left Front	<u>879</u>	Right Front	<u>879</u>	Left Rear	<u>870</u>	Right Rear	<u>870</u>
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FULLY LOADED:

Left Front	<u>865</u>	Right Front	<u>869</u>	Left Rear	<u>836</u>	Right Rear	<u>845</u>
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READY FOR TEST:

Left Front	<u>865</u>	Right Front	<u>871</u>	Left Rear	<u>842</u>	Right Rear	<u>856</u>
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Test Vehicle Wheelbase: 2854 millimeters

C.G. = 1430.23 millimeters rearward of front wheel centerline

TOTAL VEHICLE LENGTH:

Right Side =	<u>4584</u>	millimeters
Left Side =	<u>4584</u>	millimeters
Centerline =	<u>4798</u>	millimeters

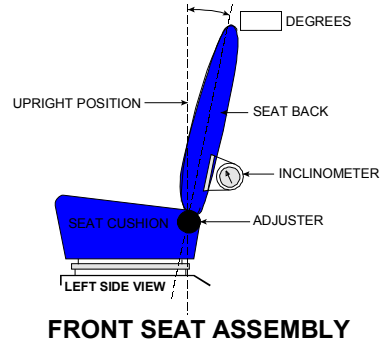
DATA SHEET 1 (continued)

GENERAL TEST VEHICLE PARAMETER DATA

Vehicle: 2004 Infiniti FX35 SUV

NHTSA No. M45203

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 CUSHION PLACEMENT: Electronic Adjustment

Total Length of Adjustment Travel: 236 millimeters

Total Number of Adjustment Positions or Detents: Placed in 118 mm of electronic travel

FRONT SEAT BACK ADJUSTMENT POSITION:

Seat Back Torso Angle: 21 degrees

SECOND POSITION SEAT:

Total Length of Fore/Aft Adjustment Travel: fixed millimeters

Seat Back Adjustment Position: 5 steps starting at 0, ending at 4

ADJUSTABLE STEERING COLUMN POSITION: Tilt portion of steering wheel was placed in mechanical middle (26.6 degrees). Telescopic portion of steering wheel was placed in mechanical middle of 11 mm travel.

WINDOW POSITIONS: Left Front: closed Left Rear: closed
Right Front: removed Right Rear: removed

Note: Windows will be in closed position on struck side of test vehicle and in open position on opposite side.

AMOUNT OF STODDARD SOLVENT IN FUEL TANK:

90.1 liters (Fuel Tank Usable Capacity)

84 liters used for test (92%-94% of Fuel Tank Usable Capacity)

LOCATION OF IMPACT POINT ON TEST VEHICLE SIDE TO BE IMPACTED:

Wheelbase = 2854 millimeters

Impact Point is 487 millimeters rearward of front axle centerline
(which is 940 millimeters forward of the wheelbase midpoint)

Actual Impact Point is 487 millimeters rearward of front axle centerline

AUTOMATIC DOOR LOCKS: Is test vehicle equipped with ADLs? - Yes x No

Does vehicle owner's manual describe how to deactivate ADLs? - Yes - No x N/A

Comments: The vehicle was tested with the struck side doors in the unlocked state

DATA SHEET 2

TEST VEHICLE SUMMARY OF RESULTS

VEHICLE IDENTIFICATION:

Vehicle Year/Make/Model: 2004 Infiniti FX35

Body Style: SUV

VIN: JNRAS08W14X214239

NHTSA No.: M45203

Test Date: March 12, 2004

Overall Length = 4798 millimeters; Overall Width = 1890 millimeters

VEHICLE TEST WEIGHT (Pre-Test):

Left Front = 572 kg Left Rear = 564 kg

Right Front = 531 kg Right Rear = 540 kg

TOTAL FRONT = 1103.0 kg TOTAL REAR = 1104.0 kg

TOTAL VEHICLE WEIGHT 2207.0 kg

Wheelbase = 2854 millimeters

Longitudinal C.G. from Center of Front Axle = 1430.23 millimeters

Impact Angle with Respect to Impactor = 90 degrees

ACTUAL IMPACT POINT

Actual Impact Point is 0 mm n/a of nominal impact ref. line (Lateral)

Actual Impact Point is 10 mm below nominal impact point (Vertical)

MAXIMUM EXTERIOR STATIC CRUSH:

1. LEVEL 1 (308 mm above ground) = 120 millimeters

2. LEVEL 2 (688 mm above ground) = 290 millimeters

3. LEVEL 3 (752 mm above ground) = 300 millimeters

4. LEVEL 4 (1078 mm above ground) = 150 millimeters

5. LEVEL 5 (1546 mm above ground) = 14 millimeters

Maximum Post-Test Intrusion = 300 millimeters

OCCUPANTS:

Front Passenger:

Rear Passenger:

Dummy Identification SID H3/269

SID H3/270

Restraints Used 3 point belt system, side torso
airbag, side curtain airbag and
front airbags

3 point belt system with side curtain
airbag

INSTRUMENTATION:

Number of Vehicle Data Channels: = 26

Number of Cameras: Onboard = 3

Offboard = 8

TOTAL = 11

DATA SHEET 3

MOVING DEFORMABLE BARRIER (MDB) SUMMARY

Vehicle: 2004 Infiniti FX35 SUV

NHTSA No. M45203

MDB FACE MANUFACTURER AND SERIAL NUMBER:

Plascore 003B0703 031A0703

POSITION OF IMPACT (MDB) ON MONORAIL:

Crabbed 27° to left

MDB DETAILS:

Overall Width of Framework Carriage	=	<u>1250</u>	millimeters
Overall Length of MDB (incl. honeycomb impact face)	=	<u>4120</u>	millimeters
Wheelbase of Framework Carriage	=	<u>2590</u>	millimeters
Tread of Framework Carriage (Front & Rear)	=	<u>1875</u>	millimeters
C.G. Location Rearward of Front Axle	=	<u>1104</u>	millimeters

MDB WEIGHT:

Left Front	=	<u>409.5</u>	kg	Left Rear	=	<u>281.5</u>	kg
Right Front	=	<u>372.5</u>	kg	Right Rear	=	<u>299.0</u>	kg
TOTAL FRONT	=	<u>782.0</u>	kg	TOTAL REAR	=	<u>580.5</u>	kg
TOTAL MDB WEIGHT	=	<u>1362.5</u>	kg				
Impact Angle (MDB C/L to Target Vehicle C/L)	=	<u>90</u>	degrees				
Impact Speed	=	<u>61.8</u>	kph				

MAXIMUM STATIC CRUSH OF HONEYCOMB IMPACT FACE:

1. Row A at Center of Bumper Level	=	<u>200</u>	millimeters
2. Row B at Top of Bumper Level	=	<u>139</u>	millimeters
3. Row C at Mid Level	=	<u>101</u>	millimeters
4. Row D at Top of Stack Level	=	<u>173</u>	millimeters

INSTRUMENTATION:

Number of MDB Data Channels	=	<u>5</u>
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DATA SHEET 4

POST-TEST OBSERVATIONS

Vehicle: 2004 Infiniti FX35 SUV

NHTSA No. M45203

TEST DUMMY INFORMATION AND CONTACT POINTS:

DESCRIPTION	FRONT SEAT	REAR SEAT
ATD Type/Serial No.	SID H3/269	SID H3/270
Head Contact:	Side curtain airbag / Side rail	Side curtain airbag / Side rail
Upper Torso Contact:	Door skin / Torso airbag	Door skin
Lower Torso Contact:	Armrest	Armrest
Left Knee Contact:	Door skin	Door skin
Right Knee Contact:	Left Knee	Left Knee

POST TEST DOOR OPENING AND SEAT TRACK INFORMATION

DESCRIPTION	FRONT	REAR
Left Side Doors	Closed / Inoperable	Closed / Unlatched
Right Side Doors	Closed / Operable	Closed / Operable
Hatch/Other Door	Closed / Operable	
Seat Movement (mm)	0	0
Seat Back Failure	none	none

POST TEST STRUCTURAL OBSERVATIONS

CRITICAL AREAS OF PERFORMANCE	
Pillar Performance	OK
Sill Separation	None
Windshield Damage	None
Window Damage	Rear left door window shattered upon impact
Other Notable Effects	Rear left door unlatched during impact, opened approximately 5 inches at the latch.

AIR BAG DEPLOYMENT STATUS:

	DRIVER	FRONT PASSENGER	REAR PASSENGER
Front Air Bag	Deployed	Deployed	None
Knee Bolster Bag	None	None	None
Side Air Bag	Deployed	Not activated	None
Side Curtain Bag	Deployed	Not activated	Deployed

MDB LEFT EDGE IMPACT DATA

Measured Parameter	Units	Requirement	Value
Horizontal Offset	mm	± 50 mm	0
Vertical Offset	mm	± 20 mm	-10

SECTION 4

OCCUPANT AND VEHICLE INFORMATION

DATA SHEET 5

SID H3 INSTRUMENTATION DATA

Vehicle: 2004 Infiniti FX35 SUV

NHTSA No. M45203

		Front Dummy ID# 269				Rear Dummy ID# 270			
		Pos. Direction		Neg. Direction		Pos. Direction		Neg. Direction	
		Max (g)	Time (msec)	Max (g)	Time (msec)	Max (g)	Time (msec)	Max (g)	Time (msec)
HEAD ACCELERATIONS:									
Longitudinal	X	7.6	180.7	-22.8	65.8	6.7	66.1	-12.4	99.2
Lateral	Y	36.5	63.7	-4.2	191.8	62.7	65.3	-4.0	42.4
Vertical	Z	24.8	52.9	-4.2	25.4	12.2	50.9	-29.6	72.5
Resultant	R	44.1	62.8	0.0	-11.1	64.5	65.2	0.0	-10.1
HIC		168.3				203.1			
NECK FORCES:									
Longitudinal	X	74.5	159.0	-483.2	55.2	570.6	79.3	-88.0	163.4
Lateral	Y	490.6	64.1	-86.1	33.9	60.2	179.4	-1300.8	79.2
Vertical	Z	1059.5	53.2	-197.3	28.1	380.4	51.3	-1261.1	74.1
Resultant	R	1176.0	53.2	0.1	-17.0	1850.9	77.8	0.1	-1.9
NECK MOMENTS:									
X		5.4	137.9	-38.3	43.9	15.4	109.8	-81.0	67.7
Y		24.6	84.8	-37.6	55.1	11.4	172.9	-8.9	83.4
Z		18.8	81.4	-11.0	199.9	14.4	102.1	-9.8	68.6
Resultant	R	41.6	55.0	0.0	-2.7	81.8	67.5	0.0	-1.0
RIB ACCELERATIONS:									
Upper Rib Lateral	Y	40.8	50.6	-4.7	63.1	44.3	61.9	-16.7	103.7
Upper Rib Lateral	Y(R)	40.7	50.6	-4.8	63.1	43.3	61.9	-5.4	109.4
Lower Rib Lateral	Y	33.0	33.7	-7.5	63.1	41.9	53.7	-8.7	108.7
Lower Rib Lateral	Y(R)	33.2	33.7	-7.5	63.1	43.1	53.7	-7.4	108.7
SPINE ACCELERATIONS:									
Lower Lateral	Y	40.3	33.1	-8.2	67.5	50.2	51.2	-2.8	83.7
Lower Lateral	Y(R)	40.3	33.1	-8.1	67.5	50.0	51.2	-2.8	84.4
PELVIC ACCELERATIONS:									
Lateral	Y	69.3	30.6	-13.5	60.6	59.5	45.0	-7.1	76.2
Lateral	Y(R)	70.6	30.6	-13.8	60.6	58.9	45.0	-7.0	76.2

REFERENCE: Positive Direction: Longitudinal (X) = forward; Lateral (Y) = to right; Vertical (Z) = down

Note: Rib, Spine and Pelvis data has been FIR filtered, Y(R) denotes redundant Y direction accelerometer.

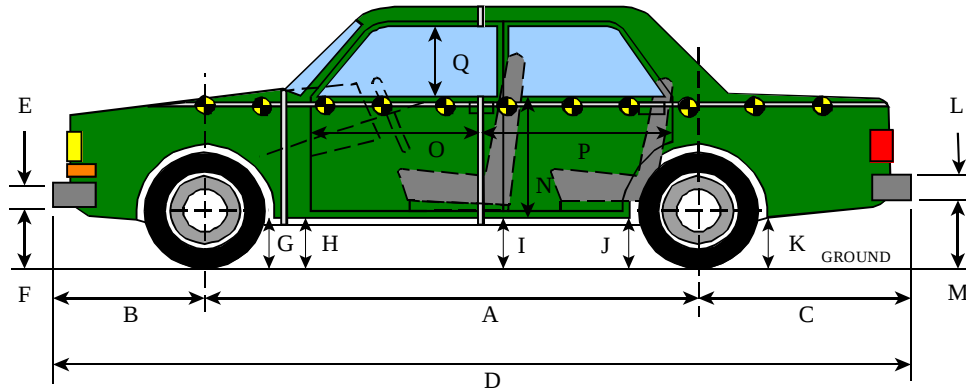
Head Accelerations and Neck Forces are filtered at SAE Class 1000, Neck Moments are filtered at SAE Class 600.

DATA SHEET 6

VEHICLE SIDE MEASUREMENTS

Vehicle: 2004 Infiniti FX35 SUV

NHTSA No. M45203



LEFT SIDE VIEW

NOTE: all dimensions are in millimeters with tolerance of ± 3 mm

	PRE-TEST (as delivered)	PRE-TEST (as tested)	POST-TEST (as tested)	Δ CHANGE
A	2854	2854	2799	-55
B	891	-	926	35
C	1053	-	1053	0
D	4798	-	4778	-20
E	205	-	205	0
F	384	385	414	29
G	281	259	303	44
H	281	258	326	68
I	281	259	316	57
J1	256	223	247	24
J2	284	254	324	70
K	346	311	371	60
L	269	-	269	0
M	418	378	433	55
N	724	-	698	-26
O	696	-	690	-6
P	1490	-	1394	-96
Q	395	-	389	-6
R	4584	-	4594	10
S	4584	-	4555	-29
T	1890	-	1724	-166

D = Length at Centerline

E&L = Bumper Thickness

R = Right Side Length

S = Left Side Length

T = Width at B-Pillar

J1 = To Pinch Weld

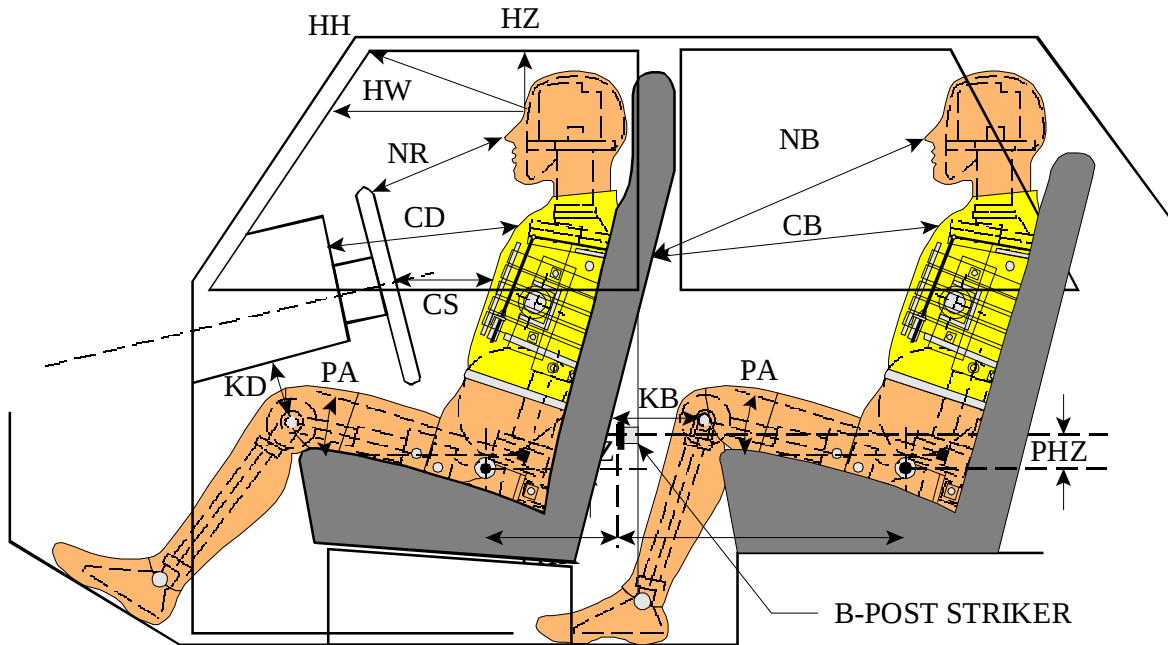
J2 = To Sill

DATA SHEET 7

SID H3 LONGITUDINAL CLEARANCE DIMENSIONS

Vehicle: 2004 Infiniti FX35 SUV

NHTSA No. M45203



LEFT SIDE VIEW

NOTE: 2-DOOR VEHICLE SHOWN.
REAR DUMMY PHX & PHZ
MEASUREMENTS FOR A 4-DOOR
VEHICLE WOULD USE THE C-POST
STRIKER AS A REFERENCE POINT

NOTE: All dimensions are in millimeters with tolerance of ± 3 mm

	DRIVER ID# 269	LEFT REAR PASS. ID# 270
HH	363	N/A
HW	611	N/A
HZ	168	195
NR/NB	465	608
CD/CB	533	535
CS	304	N/A
KDL(KDA°)/KBL(KDA°)	179 / (28 °)	238 / (23 °)
KDR(KBA°)/KBR(KBA°)	150 / (42 °)	242 / (23 °)
PA°	23.2 °	24.0 °
PHX	270	339
PHZ	220	316

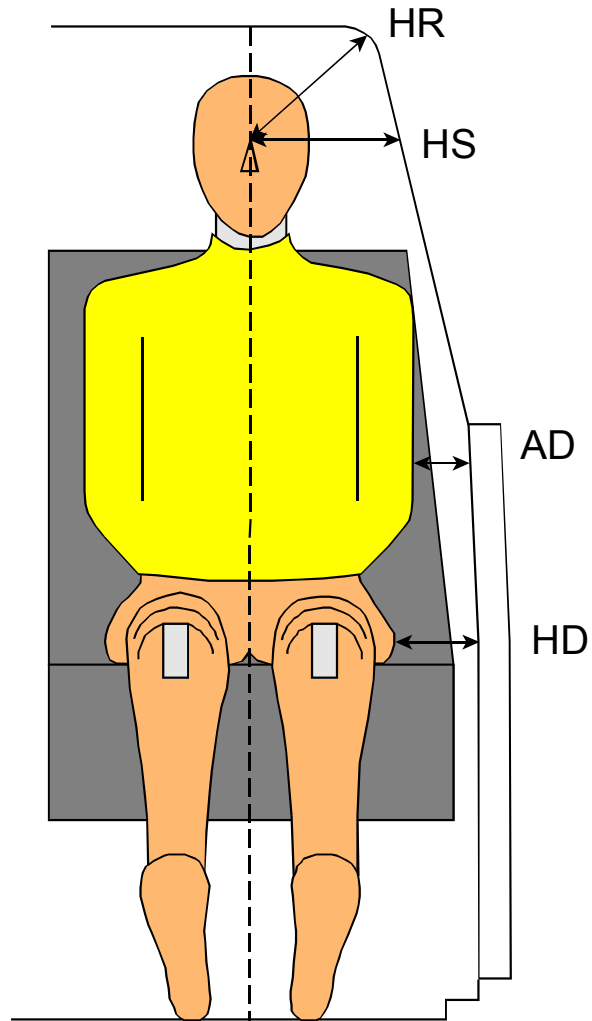
Note: 2-door vehicle shown. Rear dummy PHX & PHZ measurements for 4-door vehicle would use the C-post striker as a reference point.

DATA SHEET 8

SID H3 LATERAL CLEARANCE DIMENSIONS

Vehicle: 2004 Infiniti FX35 SUV

NHTSA No. M45203



NOTE: All dimensions are in millimeters with tolerance of ± 3 mm

	DRIVER ID # 269				LEFT REAR PASS. ID # 270			
HR	198				219			
HS	331				359			
AD*	LOWER:	98	UPPER:	106	LOWER:	134	UPPER:	121
HD	144				164			

* Lower measurement is taken laterally at the center of the lower rib accelerometer height from the SID H3 arm segment to the closest part of the vehicle side.

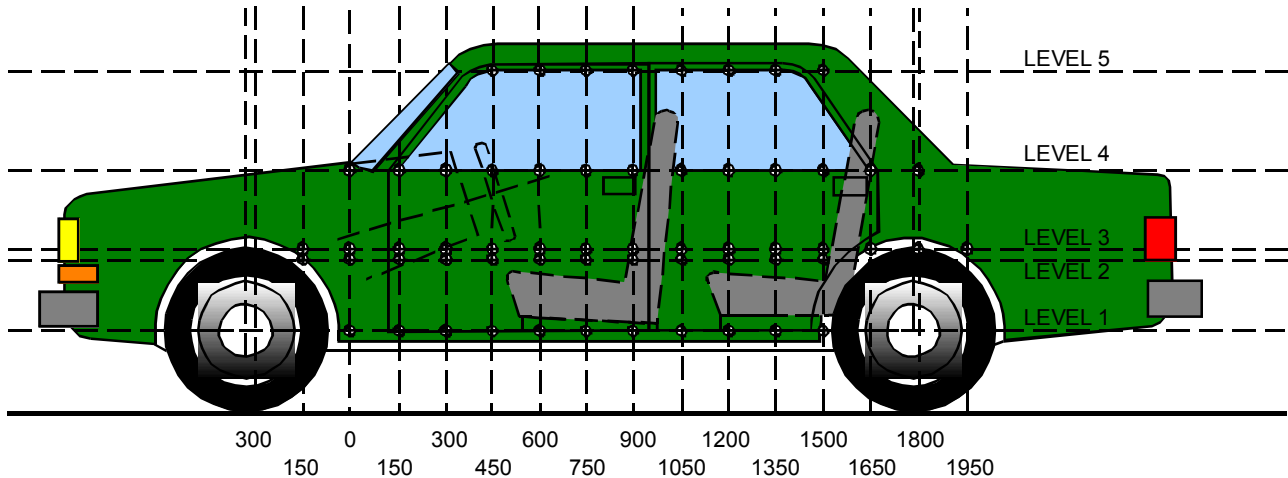
Upper measurement is taken laterally at the center of the upper rib accelerometer height from the SID H3 arm segment to the closest part of the vehicle side.

DATA SHEET 9

VEHICLE SIDE MEASUREMENTS

Vehicle: 2004 Infiniti FX35 SUV

NHTSA No. M45203



LEFT SIDE VIEW

NOTE: All measurements are in millimeters (mm)

LEVEL 5 - WINDOW TOP
LEVEL 4 - WINDOW SILL
LEVEL 3 - MID-DOOR
LEVEL 2 - OCCUPANT H-POINT
LEVEL 1 - AXLE CENTERLINE HEIGHT OR SILL TOP HEIGHT

MEASUREMENTS ARE TAKEN WHEN THE VEHICLE IS IN THE "AS TESTED" CONFIGURATION.

Measurements Along the Vertical 750 mm Line Shown Above:

Level 5 @ Window Top	=	<u>1546</u>	millimeters
Level 4 @ Window Sill	=	<u>1078</u>	millimeters
Level 3 @ Mid Door	=	<u>752</u>	millimeters
Level 2 @ Occupant H-Point	=	<u>688</u>	millimeters
Level 1 @ Axle Centerline Height (or Sill Top Height)	=	<u>308</u>	millimeters

DATA SHEET 10

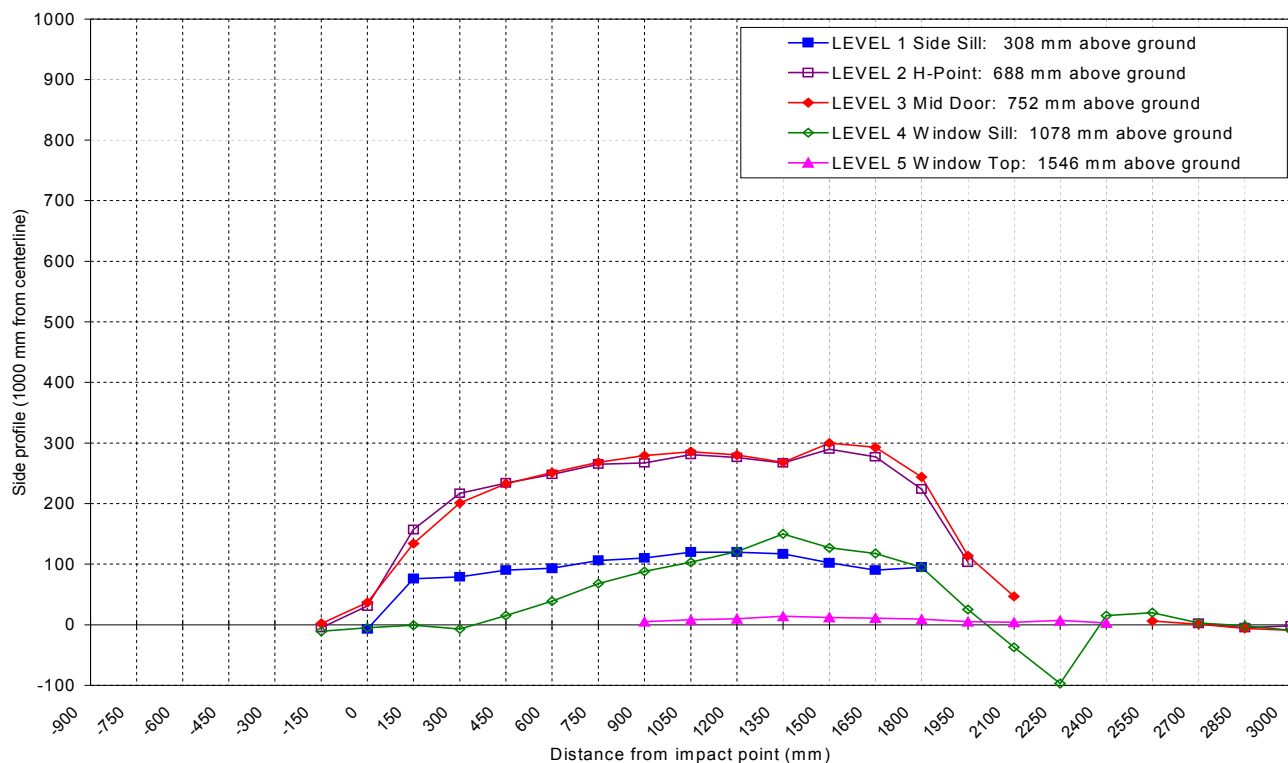
VEHICLE EXTERIOR CRUSH PROFILES - ALL LEVELS

Vehicle: 2004 Infiniti FX35 SUV

NHTSA No. M45203

NOTE: All dimensions are in millimeters with a tolerance of ± 3 mm

			DISTANCE IN MILLIMETERS (mm) FROM IMPACT POINT																											
LEVEL	HEIGHT (mm)		-900	-750	-600	-450	-300	-150	0	150	300	450	600	750	900	1050	1200	1350	1500	1650	1800	1950	2100	2250	2400	2550	2700	2850	3000	
LEVEL 1 SIDE SILL	308	PRE	--	--	--	--	--	--	102	134	136	134	133	130	130	129	130	129	133	132	113	--	--	--	--	--	--	--	--	--
		POST	--	--	--	--	--	--	95	210	215	224	226	236	240	249	250	246	235	222	208	--	--	--	--	--	--	--	--	--
		CRUSH	N/A	N/A	N/A	N/A	N/A	N/A	-7	76	79	90	93	106	110	120	120	117	102	90	95	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
LEVEL 2 H POINT	688	PRE	--	--	--	--	--	52	62	68	68	68	67	67	66	66	65	64	61	56	48	40	--	--	--	--	43	96	187	
		POST	--	--	--	--	--	47	93	225	285	302	315	332	333	347	341	331	351	333	272	143	--	--	--	--	45	91	185	
		CRUSH	N/A	N/A	N/A	N/A	N/A	-5	31	157	217	234	248	265	267	281	276	267	290	277	224	103	N/A	N/A	N/A	N/A	2	-5	-2	
LEVEL 3 MID DOOR	752	PRE	--	--	--	--	--	53	62	65	65	65	63	63	62	61	60	59	58	55	49	44	36	--	--	40	50	104	190	
		POST	--	--	--	--	--	55	99	199	266	298	314	331	341	347	340	327	358	348	293	158	83	--	--	46	51	98	181	
		CRUSH	N/A	N/A	N/A	N/A	N/A	2	37	134	201	233	251	268	279	286	280	268	300	293	244	114	47	N/A	N/A	6	1	-6	-9	
LEVEL 4 WINDOW SILL	1078	PRE	--	--	--	--	--	223	180	161	149	141	133	127	127	116	114	113	113	113	115	119	123	129	136	149	171	203	274	
		POST	--	--	--	--	--	212	175	160	142	156	172	195	215	219	235	263	240	231	210	144	86	32	151	169	174	201	265	
		CRUSH	N/A	N/A	N/A	N/A	N/A	-11	-5	-1	-7	15	39	68	88	103	121	150	127	118	95	25	-37	-97	15	20	3	-2	-9	
LEVEL 5 WINDOW TOP	1546	PRE	--	--	--	--	--	--	--	--	--	--	--	--	501	396	375	371	371	378	389	408	439	491	494	--	--	--	--	
		POST	--	--	--	--	--	--	--	--	--	--	--	--	506	404	385	385	383	389	398	413	443	498	497	--	--	--	--	
		CRUSH	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5	8	10	14	12	11	9	5	4	7	3	N/A	N/A	N/A	N/A	

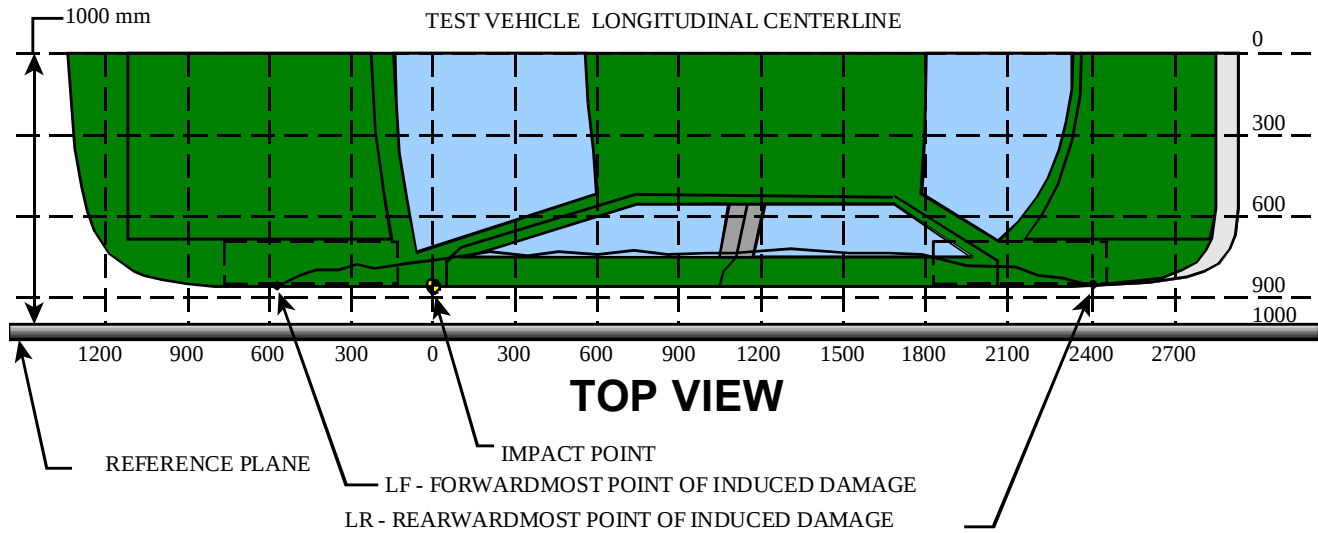


DATA SHEET 11

VEHICLE DAMAGE PROFILE DISTANCES

Vehicle: 2004 Infiniti FX35 SUV

NHTSA No. M45203



MEASUREMENT CONVENTIONS:
 Forward of the impact point (towards front of vehicle) is considered negative (—).
 Rearward of the impact point (toward rearend of vehicle) is considered positive (+).

NOTE: All dimensions are in millimeters with tolerance of ± 3 mm.

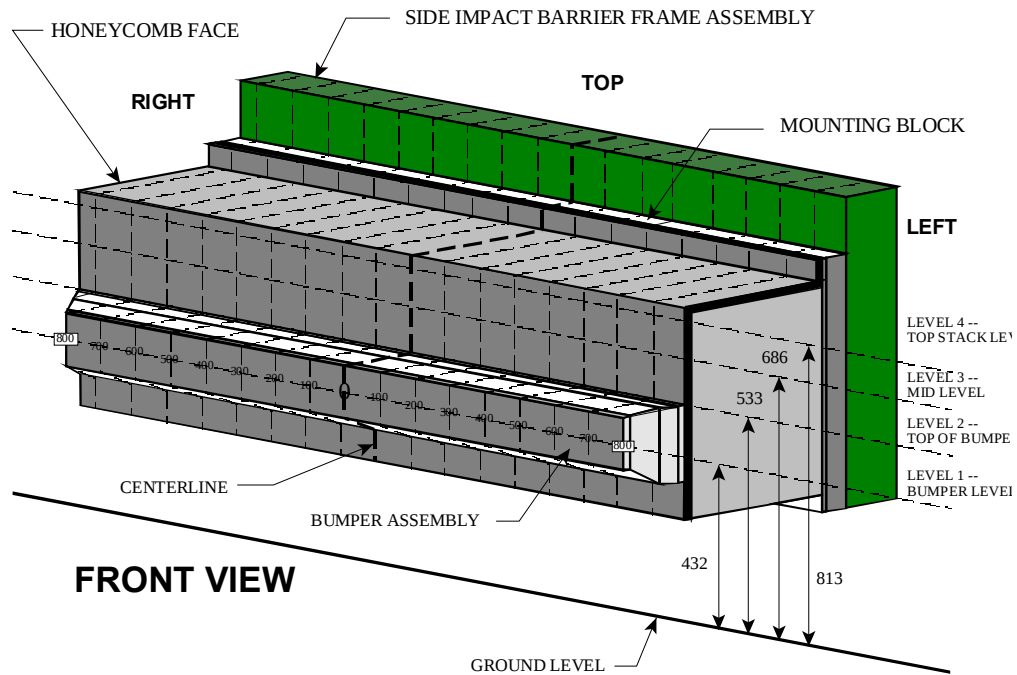
DPD MEASUREMENTS		POST TEST (mm)	PRETEST (mm)	STATIC CRUSH (mm)
1	(LR = <u>2200</u> mm)	480	474	6
2	1730	319	52	267
3	1260	335	60	275
4	790	334	63	271
5	320	270	68	202
6	(LF = <u>-150</u> mm)	55	53	2

DATA SHEET 12

EXTERIOR STATIC CRUSH FOR IMPACTOR FACE

Vehicle: 2004 Infiniti FX35 SUV

NHTSA No. M45203



NOTE: Dimensions are shown in millimeters, mm

NOTE: All dimensions are in millimeters with a tolerance of ± 3 mm

			TOP PLATE DIMENSIONS ARE IN MILLIMETERS WITH A TOLERANCE OF ±0.25 mm																	
			DISTANCE RIGHT OF CENTER (mm)										DISTANCE LEFT OF CENTER (mm)							
LEVEL	HEIGHT AT CL (mm)*		800	700	600	500	400	300	200	100	0	100	200	300	400	500	600	700	800	
LEVEL 4 TOP STACK	813	PRE	619	619	619	619	619	619	619	619	619	619	619	619	619	619	619	619	619	
		POST	658	633	624	644	679	673	655	639	642	638	639	651	667	688	702	740	792	
		CRUSH	39	14	5	25	60	54	36	20	23	19	20	32	48	69	83	121	173	
LEVEL 3 MID LEVEL	686	PRE	619	619	619	619	619	619	619	619	619	619	619	619	619	619	619	619	619	
		POST	693	654	636	635	640	651	633	624	621	618	621	626	633	640	656	678	720	
		CRUSH	74	35	17	16	21	32	14	5	2	-1	2	7	14	21	37	59	101	
LEVEL 2 TOP BUMPER	533	PRE	619	619	619	619	619	619	619	619	619	619	619	619	619	619	619	619	619	
		POST	758	723	700	684	669	664	665	662	664	662	660	661	668	670	669	675	702	
		CRUSH	139	104	81	65	50	45	46	43	45	43	41	42	49	51	50	56	83	
LEVEL 1 MID BUMPER	432	PRE	535	519	518	518	518	518	518	518	518	518	518	518	518	518	518	519	535	
		POST	735	687	654	627	608	603	602	603	601	602	604	602	604	612	609	618	631	
		CRUSH	200	168	136	109	90	85	84	85	83	84	86	84	86	94	91	99	96	

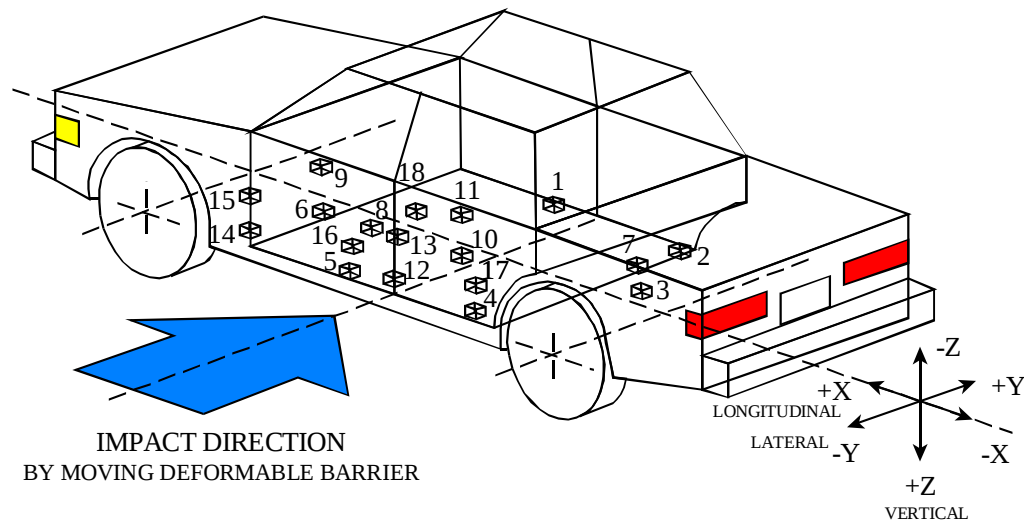
*Heights measured above ground level.

DATA SHEET 13

TEST VEHICLE ACCELEROMETER LOCATIONS AND DATA SUMMARY

Vehicle: 2004 Infiniti FX35 SUV

NHTSA No. M45203



- | | |
|------------------------------------|------------------------------------|
| 1-Right Side Sill @ Front Seat | 10-Midrear of Left Rear Door |
| 2-Right Side Sill @ Rear Seat | 11-Left Rear Door Upper Centerline |
| 3-Rear Floorpan Above Axle | 12-Left Lower B-Pillar |
| 4-Left Side Sill @ Rear Seat | 13-Left Middle B-Pillar |
| 5-Left Side Sill @ Front Seat | 14-Left Lower A-Pillar |
| 6-Left Front Door on Centerline | 15-Left Middle A-Pillar |
| 7-Right Rear Occupant Compartment | 16-Front Seat Track |
| 8-Midrear of Left Front Door | 17-Rear Seat Track |
| 9-Left Front Door Upper Centerline | 18-Vehicle CG |

DATA SHEET 13 (continued)

VEHICLE ACCELEROMETER LOCATIONS AND DATA SUMMARY

Vehicle: 2004 Infiniti FX35 SUV

NHTSA No. M45203

Accel. No.	Location	Coordinates (mm)±3 mm				Long. (x)		Lat. (y)		Vert. (z)		Resultant	
						Max (g)	Time (msec)	Max (g)	Time (msec)	Max (g)	Time (msec)	Max (g)	Time (msec)
		X*	Y*	Z*									
1	Right Side Sill at Front Seat	2894	673	-357	pos. neg.	5.2 -3.7	57.5 14.4	37.1 -3.6	7.8 149.4	4.4 -8.2	121.2 6.6	37.8 0.0	7.8 -11.1
2	Right Side Sill at Rear Seat	2016	661	-347	pos. neg.	4.7 -5.9	58.1 5.8	27.9 -3.3	7.7 150.4	7.3 -12.0	51.9 6.4	29.5 0.0	7.1 -7.1
3	Rear Floorpan Above Axle	948	11	-739	pos. neg.	6.0 -12.2	13.6 27.6	22.5 -1.7	5.8 120.5	9.4 -6.1	23.6 30.8	23.5 0.0	6.0 -11.9
4	Left Side Sill at Rear Seat	3285	-658	-503	pos. neg.	- -	- -	69.4 -17.1	4.7 27.5	- -	- -	- -	- -
5	Left Side Sill at Front Seat	2984	-653	-361	pos. neg.	- -	- -	117.4 -28.5	4.4 19.7	- -	- -	- -	- -
6	Left Front Door on Centerline	2742	-770	-810	pos. neg.	- -	- -	124.0 -33.1	9.1 33.7	- -	- -	- -	- -
7	Right Rear Occupant Compartment	2040	457	-324	pos. neg.	- -	- -	29.2 -3.2	7.8 149.4	- -	- -	- -	- -
8***	Midrear of Left Front Door	2298	-717	-851	pos. neg.	- -	- -	45.6 -249.9	4.4 17.1	- -	- -	- -	- -
9	Left Front Door Upper Centerline	2566	-755	-1088	pos. neg.	- -	- -	105.2 -72.4	15.3 7.6	- -	- -	- -	- -
10	Midrear of Left Rear Door	1475	-738	-864	Pos. neg.	- -	- -	63.3 -35.8	17.5 49.0	- -	- -	- -	- -
11	Left Rear Door Upper Centerline	1640	-748	-1101	pos. neg.	- -	- -	130.5 -58.6	39.5 33.9	- -	- -	- -	- -

*Reference: X - Rear Bumper (+ Forward)

Y - Vehicle Centerline (+ To Right) Z - Ground Level (+ Down)

**Accelerometer was not requested by COTR.

*** Data invalid after 8 ms.

4-11

8725-SNCAP-03

DATA SHEET 13 (continued)

VEHICLE ACCELEROMETER LOCATIONS AND DATA SUMMARY

Vehicle: 2004 Infiniti FX35 SUV

NHTSA No. M45203

Accel. No.	Location	Coordinates (mm)±3 mm				Long. (x)		Lat. (y)		Vert. (z)		Resultant	
						Max (g)	Time (msec)	Max (g)	Time (msec)	Max (g)	Time (msec)	Max (g)	Time (msec)
		X*	Y*	Z*									
12	Left Lower B-Pillar	2107	-724	-489	pos.	-	-	161.5	4.9	-	-	-	-
					neg.	-	-	-51.3	27.7	-	-	-	-
13	Left Middle B-Pillar	2085	-720	-822	pos.	-	-	115.4	6.6	-	-	-	-
					neg.	-	-	-34.0	30.6	-	-	-	-
14	Left Lower A-Pillar	3271	-655	-482	pos.	-	-	144.1	5.2	-	-	-	-
					neg.	-	-	-144.9	17.4	-	-	-	-
15	Left Middle A-Pillar	3058	-688	-1138	pos.	-	-	30.3	8.6	-	-	-	-
					neg.	-	-	-2.0	2.1	-	-	-	-
16	Front Seat Track	2249	-551	-360	pos.	-	-	69.8	14.1	-	-	-	-
					neg.	-	-	-20.7	18.3	-	-	-	-
17	Rear Seat Track	1165	-560	-800	pos.	-	-	26.1	37.6	-	-	-	-
					neg.	-	-	-7.5	145.1	-	-	-	-
18	Vehicle CG	2581	37	-632	pos.	17.6	24.4	63.9	24.5	21.0	31.1	66.3	24.5
					neg.	-23.0	31.0	-28.0	30.4	-28.4	38.4	0.0	-18.9

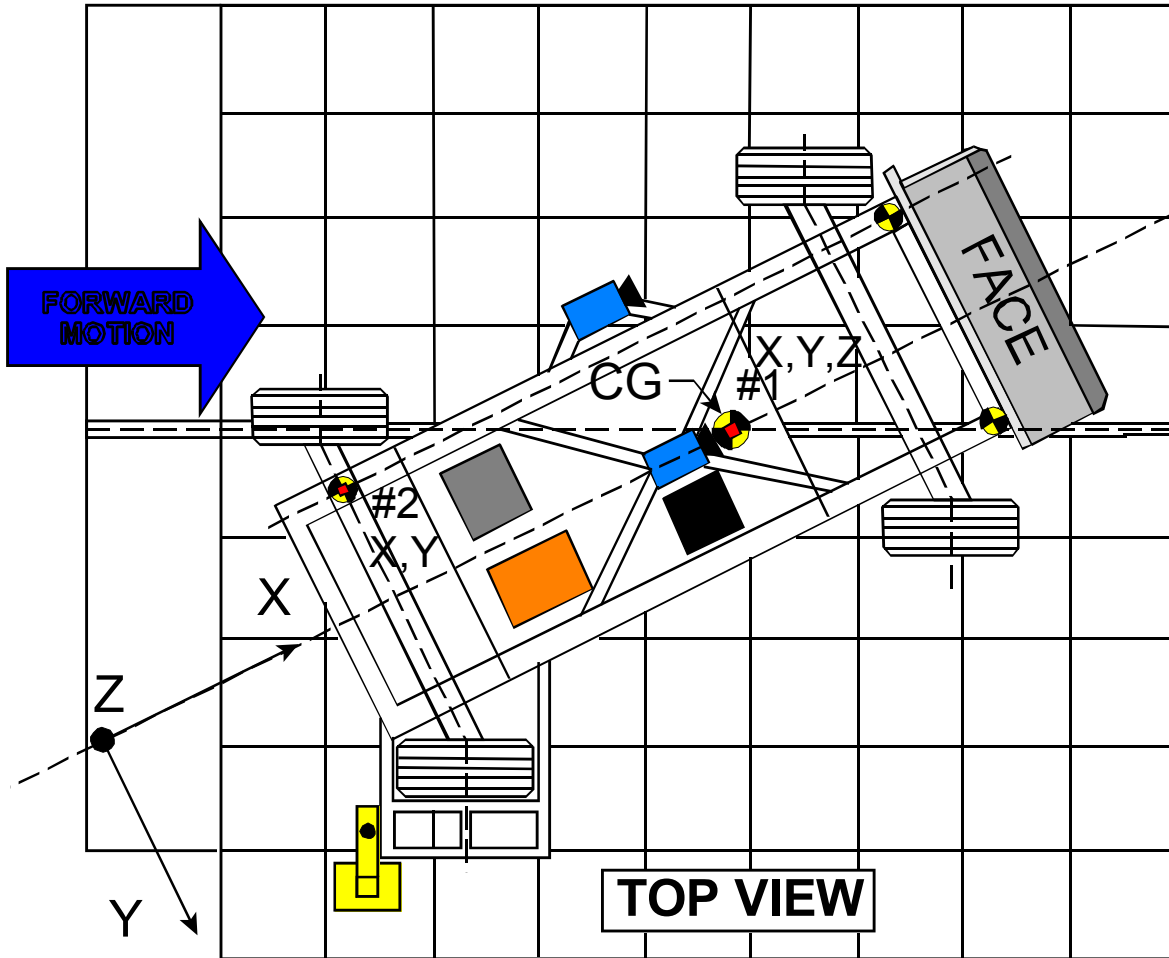
*Reference: X - Rear Bumper (+ Forward) Y - Vehicle Centerline (+ To Right) Z - Ground Level (+ Down)

DATA SHEET 14

MDB ACCELEROMETER LOCATIONS AND DATA SUMMARY

Vehicle: 2004 Infiniti FX35 SUV

NHTSA No. M45203



Accel. No.	Location	Coordinates (millimeters)			Pos. Direct.		Neg. Direct.	
		X*	Y*	Z*	Max (g)	Time (msec)	Max (g)	Time (msec)
1	MDB Center of Gravity							
	Longitudinal... X	1859	0	-330	1.1	137.3	-20.6	39.7
	Lateral..... Y				2.3	61.9	-9.6	35.3
	Vertical..... Z				13.2	58.9	-15.2	16.0
	Resultant..... R				22.9	34.8	0.1	182.9
2	Rear Frame Member							
	Longitudinal... X	386	-660	-660	1.8	108.5	-23.9	38.2
	Lateral..... Y				3.1	37.2	-5.1	62.9

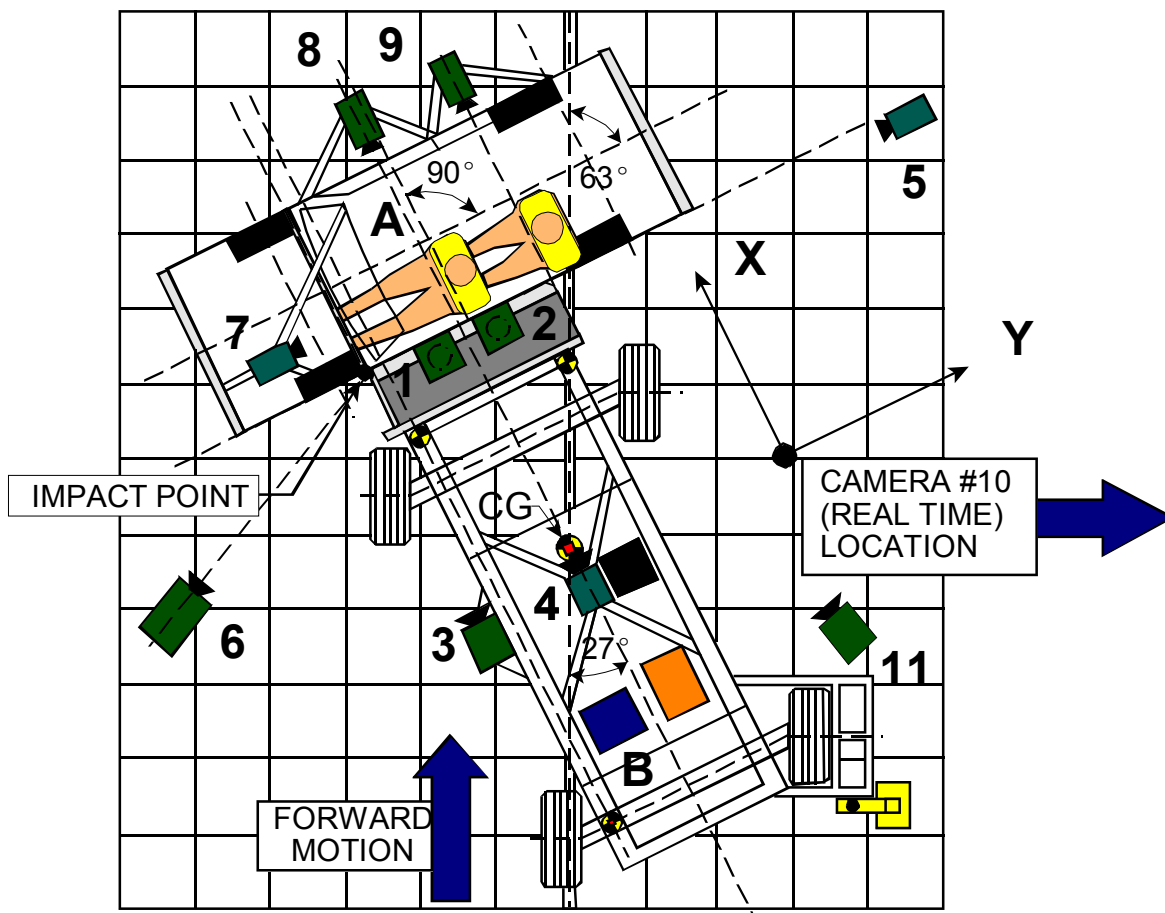
*Reference: X = Rear Bumper (+ Forward)
Y = Vehicle Centerline (+ To Right)
Z = Ground Level (+ Down)
All measurements accurate to within ± 3 mm.

DATA SHEET 15

HIGH SPEED CAMERA LOCATIONS AND DATA SUMMARY

Vehicle: 2004 Infiniti FX35 SUV

NHTSA No. M45203



Camera No.	View	Coordinates (millimeters)			Angle (deg.)	Lens (mm)	Film Speed (fps)
		X*	Y*	Z*			
1	Overhead view of test vehicle	199	803	-4880	-90	8	1010
2	Overhead closeup view of impact plane	304	824	-4880	-90	12.5	1020
3	MDB onboard closeup view of impact point	-1470	0	-847	0	13	1030
4	MDB onboard view of driver dummy	-1140	838	-1586	-17	7.5	1-35
5	Right side ground level overall view	0	9179	1103	-2.4	25	1020
6	Left side ground level overall view	1711	-1475	1069	-7.5	13	1000
7	Test vehicle onboard driver front view	549	-391	1384	-13.2	13	1020
8	Test vehicle onboard driver side view	1809	914	1251	-12.4	8	1015
9	Test vehicle onboard passenger side view	1809	1829	1286	-12.3	8	1010
10	Real time film coverage of test	-	-	-	-	-	24
11	Secondary impact point view	3052	3897	1044	-2.9	25	1000

* Reference (from point of impact); all measurements accurate to within ± 6 mm.

X = (Impact Point) + Forward

Y = (Impact Point) + To Right

Z = (Ground Level) + Down

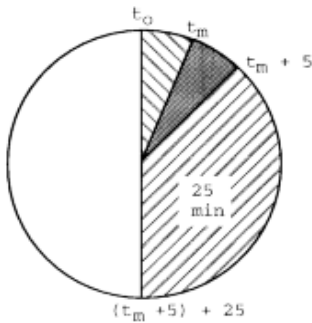
SECTION 5

FUEL SYSTEM INTEGRITY

FMVSS 301 FUEL SYSTEM INTEGRITY DATA

- Frontal (48.28 kph)
- Oblique (48.28 kph) with _____ ° barrier face first
contacting the _____ side
(driver/passenger)
- Rear Moving Barrier (48.28 kph)
- Lateral Moving Barrier (32.19 kph)
- X Side Impact Moving Deformable Barrier (62.0 kph)
contacting the _____ driver side _____ side
(driver/passenger)

FUEL SPILLAGE MEASUREMENT:



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

ACTUAL	MAX ALLOWED
0 g	28 g
0 g	142 g
0 g	28 g/1 min.

SOLVENT SPILLAGE DETAILS:

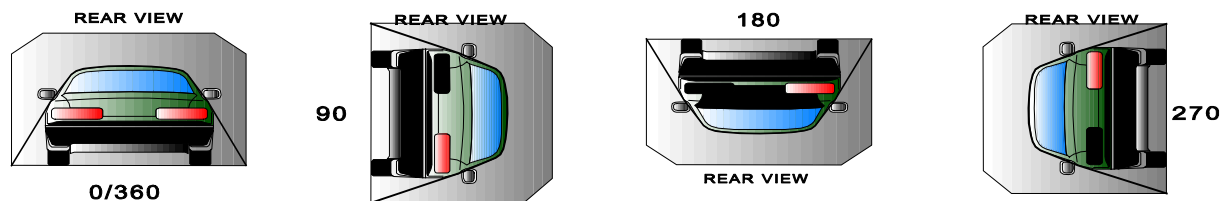
None

DATA SHEET 17

ROLLOVER DATA

Vehicle: 2004 Infiniti FX35 SUV

NHTSA No.: M45203



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	05	seconds	5	minutes	6	minutes	5	seconds	7	minutes
90° - 180°	1	minutes	07	seconds	5	minutes	6	minutes	7	seconds	7	minutes
180°-270°	1	minutes	05	seconds	5	minutes	6	minutes	5	seconds	7	minutes
270°-360°	1	minutes	12	seconds	5	minutes	6	minutes	12	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

APPENDIX A

PHOTOGRAPHS

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Figure A- 29	PRE-TEST LEFT OCCUPANT COMPARTMENT VIEW OF FRONT SID H3	A- 31
Figure A- 30	POST-TEST LEFT OCCUPANT COMPARTMENT VIEW OF FRONT SID H3	A- 32
Figure A- 31	PRE-TEST LEFT OCCUPANT COMPARTMENT VIEW OF REAR SID H3	A- 33
Figure A- 32	POST-TEST LEFT OCCUPANT COMPARTMENT VIEW OF REAR SID H3	A- 34
Figure A- 33	PRE-TEST INTERIOR OF FRONT DOOR	A- 35
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Figure A- 37	PRE-TEST LEFT SIDE VIEW OF MDB WITH IMPACTOR FACE IN POSITION	A- 39
Figure A- 38	PRE-TEST RIGHT SIDE VIEW OF MDB WITH IMPACTOR FACE IN POSITION	A- 40
Figure A- 39	POST-TEST CLOSE-UP VIEW OF IMPACT POINT TARGET	A- 41
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Figure A- 47	DOOR OPENING	A- 49



Figure A-1 PRE-TEST FRONTAL VIEW OF TEST VEHICLE

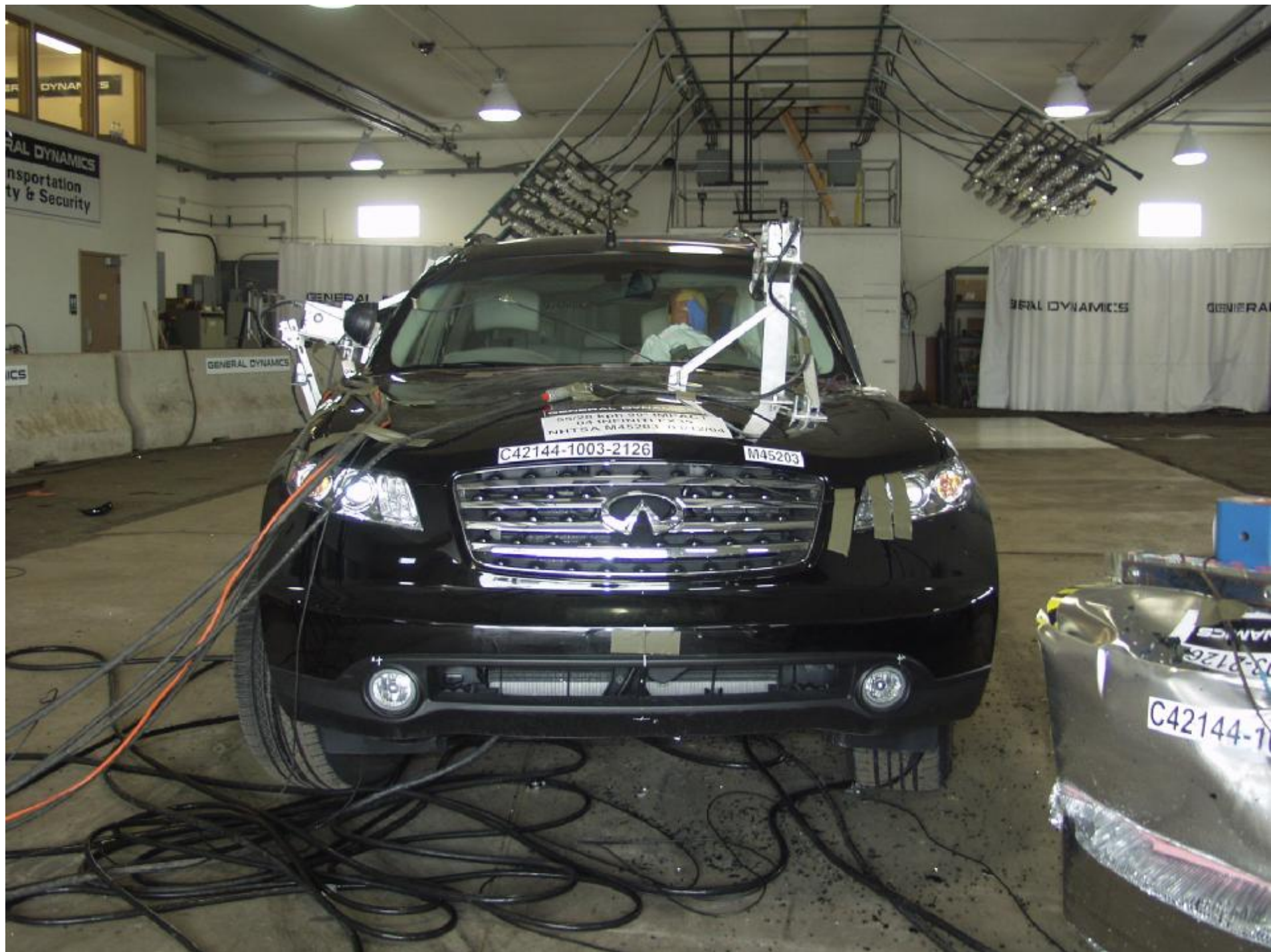


Figure A-2 POST-TEST FRONTAL VIEW OF TEST VEHICLE



Figure A-3 PRE-TEST REAR VIEW OF TEST VEHICLE

PHOTO NOT AVAILABLE

Figure A-4 POST-TEST REAR VIEW OF TEST VEHICLE



Figure A-5 PRE-TEST IMPACTED SIDE VIEW OF TEST VEHICLE



Figure A-6 POST-TEST IMPACTED SIDE VIEW OF TEST VEHICLE



Figure A-7 PRE-TEST LEFT FRONT VIEW OF TEST VEHICLE



Figure A-8 POST-TEST LEFT FRONT VIEW OF TEST VEHICLE



Figure A-9 PRE-TEST LEFT REAR VIEW OF TEST VEHICLE

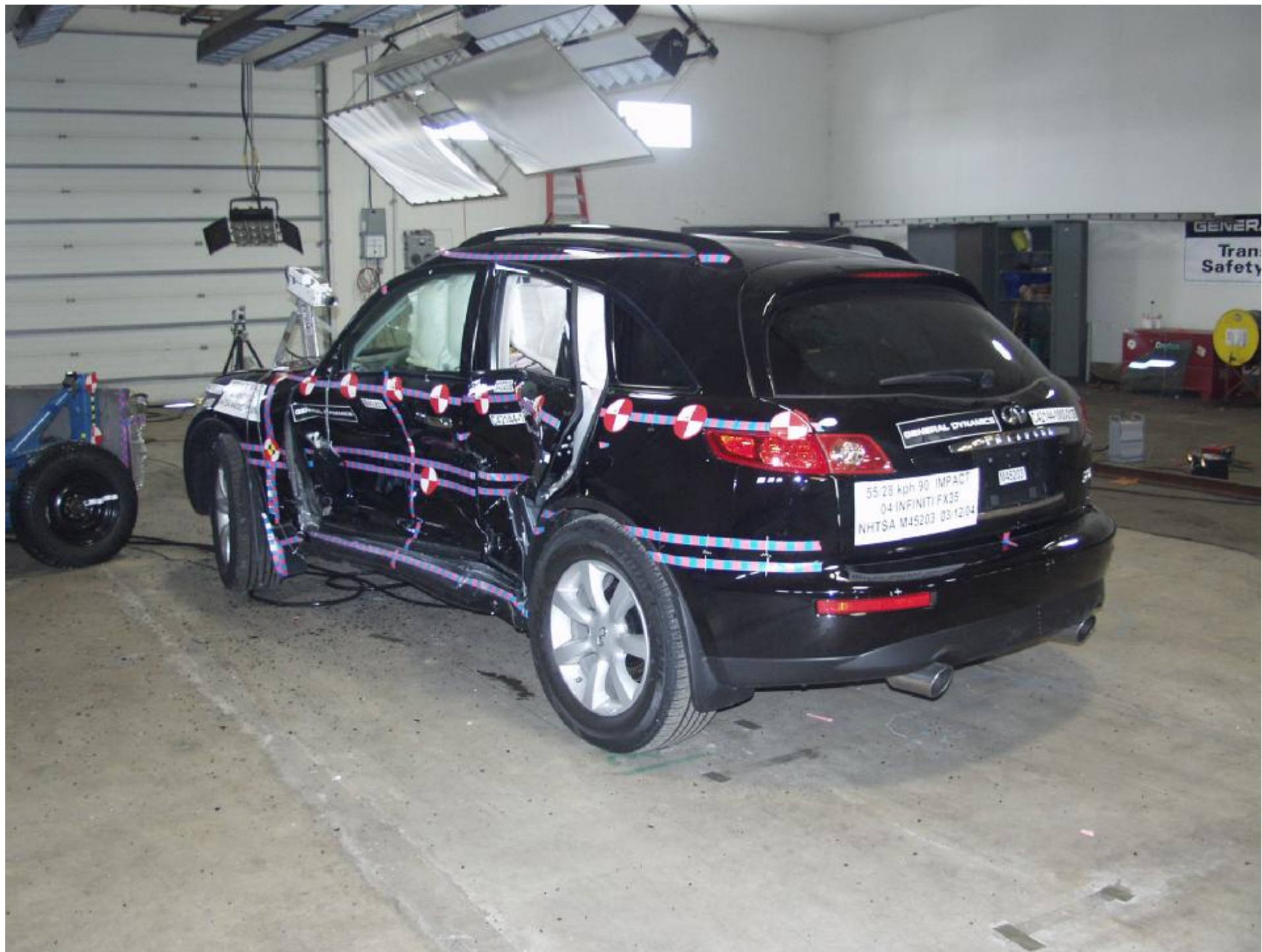


Figure A-10 POST-TEST LEFT REAR VIEW OF TEST VEHICLE



Figure A-11 PRE-TEST RIGHT FRONT VIEW OF TEST VEHICLE



Figure A-12 POST-TEST RIGHT FRONT VIEW OF TEST VEHICLE



Figure A-13 PRE-TEST RIGHT REAR VIEW OF TEST VEHICLE



Figure A-14 POST-TEST RIGHT REAR VIEW OF TEST VEHICLE



Figure A-15 PRE-TEST FRONTAL VIEW OF IMPACTOR FACE



Figure A-16 POST-TEST FRONTAL VIEW OF IMPACTOR FACE



Figure A-17 PRE-TEST LEFT SIDE VIEW OF IMPACTOR FACE



Figure A-18 POST-TEST LEFT SIDE VIEW OF IMPACTOR FACE



Figure A-19 PRE-TEST RIGHT SIDE VIEW OF IMPACTOR FACE



Figure A-20 POST-TEST RIGHT SIDE VIEW OF IMPACTOR FACE

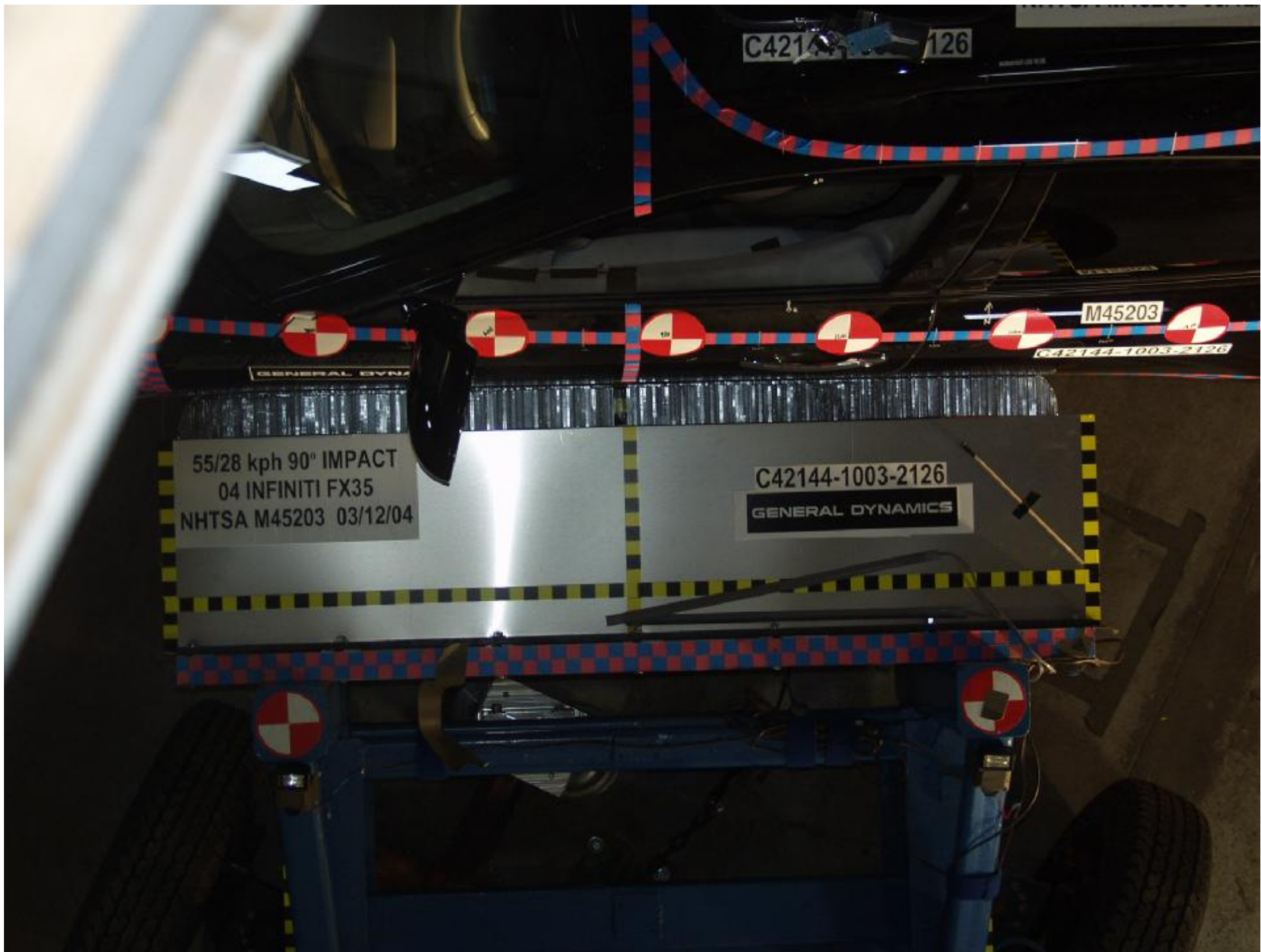


Figure A-21 PRE-TEST TOP VIEW OF IMPACTOR FACE



Figure A-22 POST-TEST TOP VIEW OF IMPACTOR FACE

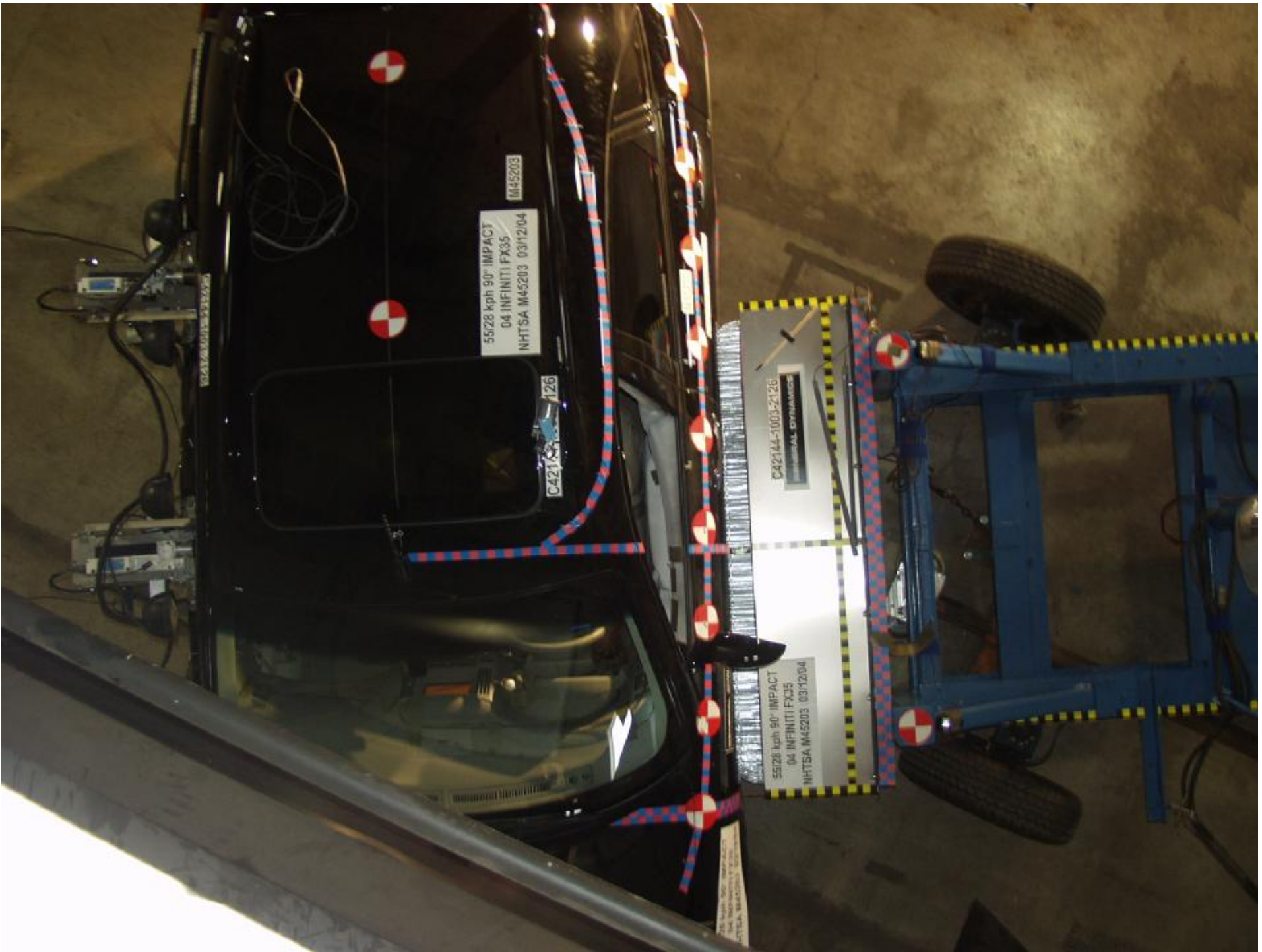


Figure A-23 PRE-TEST OVERHEAD VIEW OF ALIGNED MDB AND VEHICLE

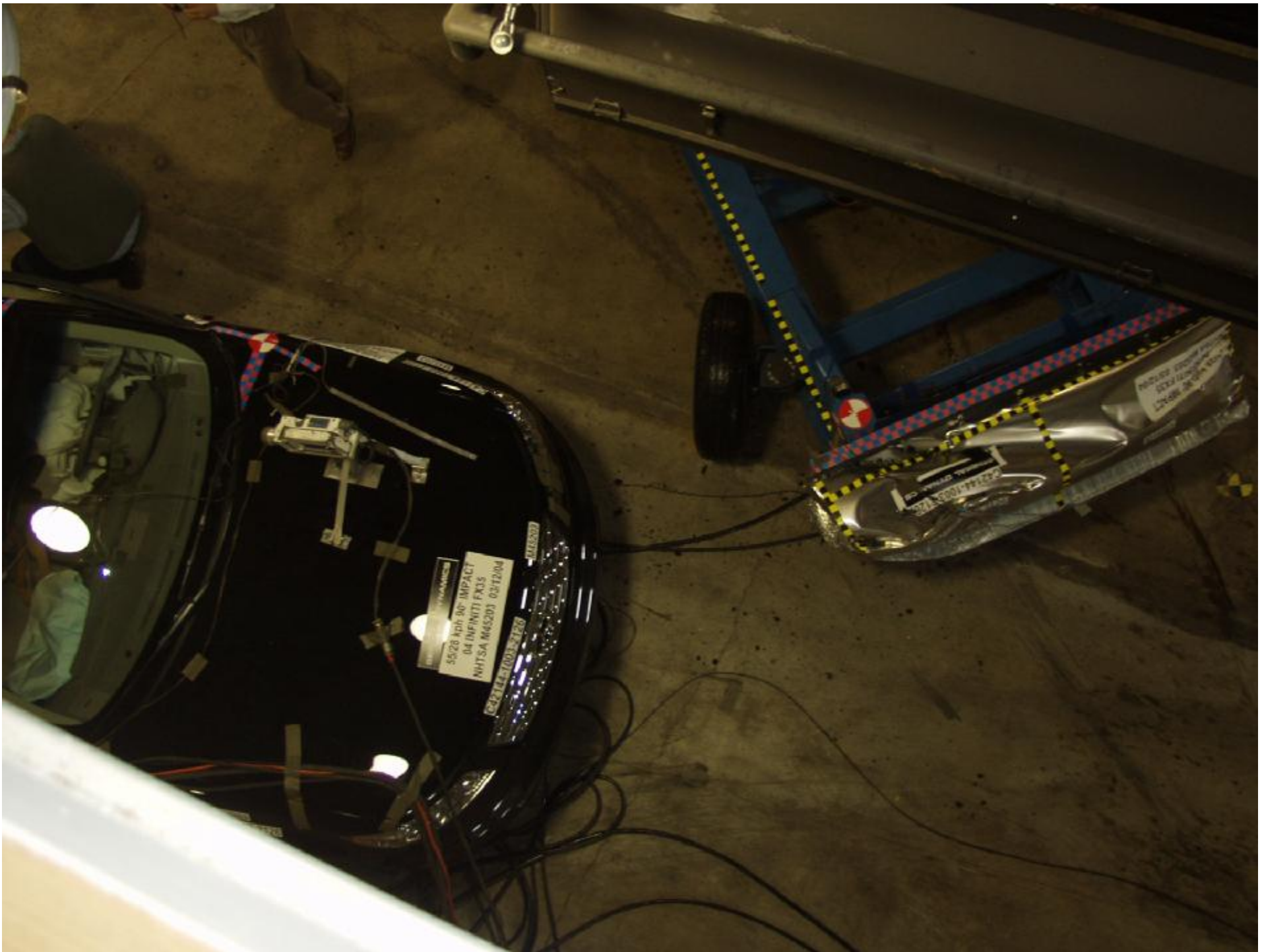


Figure A-24 POST-TEST OVERHEAD VIEW OF MDB AND VEHICLE



Figure A-25 PRE-TEST RIGHT OCCUPANT COMPARTMENT VIEW OF FRONT SID H3



Figure A-26 POST-TEST RIGHT OCCUPANT COMPARTMENT VIEW OF FRONT SID H3



Figure A-27 PRE-TEST RIGHT OCCUPANT COMPARTMENT VIEW OF REAR SID H3



Figure A-28 POST-TEST RIGHT OCCUPANT COMPARTMENT VIEW OF REAR SID H3



Figure A-29 PRE-TEST LEFT OCCUPANT COMPARTMENT VIEW OF FRONT SID H3



Figure A-30 POST-TEST LEFT OCCUPANT COMPARTMENT VIEW OF FRONT SID H3



Figure A-31 PRE-TEST LEFT OCCUPANT COMPARTMENT VIEW OF REAR SID H3



Figure A-32 POST-TEST LEFT OCCUPANT COMPARTMENT VIEW OF REAR SID H3



Figure A-33 PRE-TEST INTERIOR OF FRONT DOOR



Figure A-34 POST-TEST INTERIOR OF FRONT DOOR SHOWING SID H3 IMPACT LOCATIONS



Figure A-35 PRE-TEST INTERIOR OF REAR DOOR



Figure A-36 POST-TEST INTERIOR OF REAR DOOR SHOWING SID H3 IMPACT LOCATIONS



Figure A-37 PRE-TEST LEFT SIDE VIEW OF MDB WITH IMPACTOR FACE IN POSITION



Figure A-38 PRE-TEST RIGHT SIDE VIEW OF MDB WITH IMPACTOR FACE IN POSITION

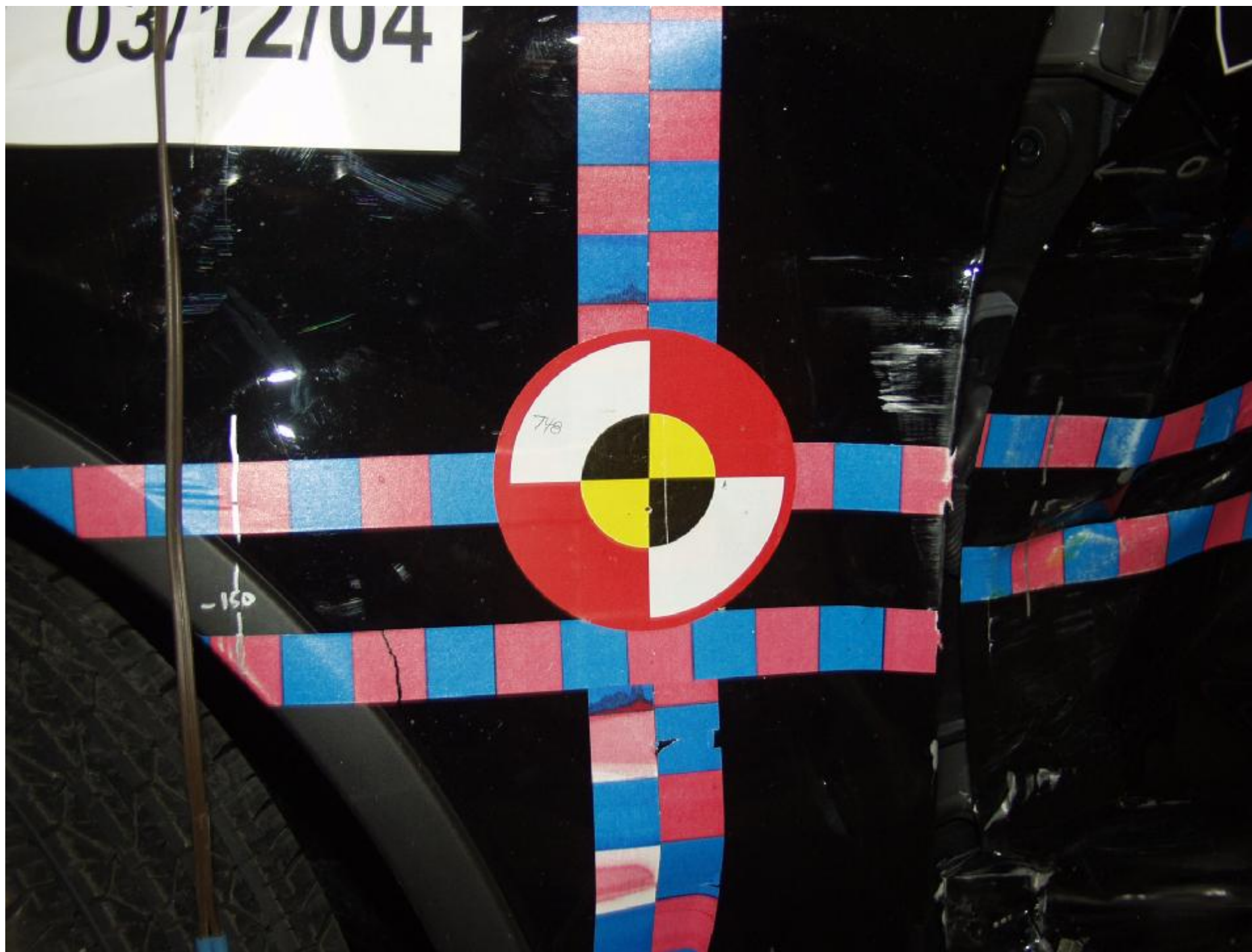


Figure A-39 POST-TEST CLOSE-UP VIEW OF IMPACT POINT TARGET

MANUFACTURED BY
NISSAN MOTOR CO., LTD.

DATE 12/03
GVWR/PNBV 5351 LBS.
GAWR/PNBE FR. 2554 LBS.
WITH P265/60R18 TIRES,
18X8JJ RIMS AT 32 PSI
COLD SINGLE
GAWR/PNBE RR. 2824 LBS.
WITH P265/60R18 TIRES,
18X8JJ RIMS AT 32 PSI
COLD SINGLE.

THIS VEHICLE CONFORMS
TO ALL APPLICABLE FED-
ERAL MOTOR VEHICLE SA-
FETY AND THEFT PREVEN-
TION STANDARDS IN EFF-
ECT ON THE DATE OF MA-
NUFACTURE SHOWN ABOVE.

JNRRAS08W14X214239
MPV



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4
X
2
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4
2
3
9

TIRE AND LOADING INFORMATION
PNEU ET INFORMATION DE CHARGEMENT

SEATING CAPACITY
NOMBRE DE PLACES

TOTAL
TOTAL

5

FRONT
AVANT

2

REAR
ARRIÈRE

3

The combined weight of occupants and cargo should never exceed **431 kg or 950 lbs.**
Le poids combiné des occupants et de cargaison ne devrait jamais excéder **431 kg ou 950 lbs.**

Figure A-40 CLOSE-UP VIEW OF VEHICLE'S CERTIFICATION LABEL

18X8JJ RIMS AT 32 PSI
COLD SINGLE

THIS VEHICLE CONFORMS
TO ALL APPLICABLE FED-
ERAL MOTOR VEHICLE SA-
FETY AND THEFT PREVEN-
TION STANDARDS IN EFF-
ECT ON THE DATE OF MA-
NUFACTURE SHOWN ABOVE.

JNRAS08W14X214239
MPV

1

4

X

2

1

4

2

3

9



TIRE AND LOADING INFORMATION
PNEU ET INFORMATION DE CHARGEMENT

SEATING CAPACITY NOMBRE DE PLACES	TOTAL TOTAL	5	FRONT AVANT	2	REAR ARRIÈRE	3
--------------------------------------	----------------	---	----------------	---	-----------------	---

The combined weight of occupants and cargo should never exceed 431 kg or 950 lbs.
Le poids combiné d'occupants et de cargaison ne devrait jamais excéder 431 kg ou 950 lbs.

ORIGINAL TIRE SIZE TAILLE DU PNEU D'ORIGINE	COLD TIRE INFLATION PRESSURE PRESSION DE GONFLAGE DES PNEUS FROIDS		SEE OWNER'S MANUAL FOR ADDITIONAL INFORMATION. POUR D'AUTRES DÉ- TAILS, SE REPORTER AU MANUEL DU CONDUCTEUR.
P265/60R18 109V	FRONT AVANT	220kPa , 32PSI	
	REAR ARRIÈRE	220kPa , 32PSI	
COMPACT SPARE TIRE ROUE COMPACTE DE SECOURS	COLD TIRE INFLATION PRESSURE PRESSION DE GONFLAGE DES PNEUS FROIDS		
T175/90D18 111M	420kPa , 60PSI		CG005

Figure A-41 CLOSE-UP VIEW OF VEHICLE'S TIRE PLACARD LABEL



Figure A-42 IMPACT PHOTO



Figure A-43 ROLLOVER 90 DEGREES



Figure A-44 ROLLOVER 180 DEGREES



Figure A-45 ROLLOVER 270 DEGREES



Figure A-46 ROLLOVER 360 DEGREES



Figure A-47 POST-TEST DOOR OPENING

APPENDIX B

VEHICLE, MDB AND SID HYBRID III RESPONSE DATA

TABLE OF DATA PLOTS

DRIVER AND PASSENGER DUMMY INSTRUMENTATION PLOTS

ACCELERATION, FORCE AND MOMENT DATA - FILTER CLASS 1000, LOWER SPINE - FILTER CLASS 180
INTEGRATION DATA - FILTER CLASS 180

<u>Plot No.</u>	<u>Data Plot Title</u>	<u>Page</u>
1	DRIVER HEAD (X) ACCELERATION VS TIME	B- 6
2	DRIVER HEAD (X) VELOCITY VS TIME	B- 7
3	DRIVER HEAD (Y) ACCELERATION VS TIME	B- 8
4	DRIVER HEAD (Y) VELOCITY VS TIME	B- 9
5	DRIVER HEAD (Z) ACCELERATION VS TIME	B- 10
6	DRIVER HEAD (Z) VELOCITY VS TIME	B- 11
7	DRIVER HEAD RESULTANT ACCELERATION VS TIME	B- 12
8	DRIVER UPPER NECK (X) FORCE VS TIME	B- 13
9	DRIVER UPPER NECK (Y) FORCE VS TIME	B- 14
10	DRIVER UPPER NECK (Z) FORCE VS TIME	B- 15
11	DRIVER UPPER NECK RESULTANT FORCE VS TIME	B- 16
12	DRIVER UPPER NECK (X) MOMENT VS TIME	B- 17
13	DRIVER UPPER NECK (Y) MOMENT VS TIME	B- 18
14	DRIVER UPPER NECK (Z) MOMENT VS TIME	B- 19
15	DRIVER UPPER NECK RESULTANT MOMENT VS TIME	B- 20
16	DRIVER UPPER RIB (Y) ACCELERATION VS TIME	B- 21
17	DRIVER UPPER RIB (Y) VELOCITY VS TIME	B- 22
18	DRIVER LOWER RIB (Y) ACCELERATION VS TIME	B- 23
19	DRIVER LOWER RIB (Y) VELOCITY VS TIME	B- 24
20	DRIVER LOWER SPINE (Y) ACCELERATION VS TIME	B- 25
21	DRIVER LOWER SPINE (Y) VELOCITY VS TIME	B- 26
22	DRIVER PELVIC (Y) ACCELERATION VS TIME	B- 27
23	DRIVER PELVIC (Y) VELOCITY VS TIME	B- 28
24	PASSENGER HEAD (X) ACCELERATION VS TIME	B- 29
25	PASSENGER HEAD (X) VELOCITY VS TIME	B- 30
26	PASSENGER HEAD (Y) ACCELERATION VS TIME	B- 31
27	PASSENGER HEAD (Y) VELOCITY VS TIME	B- 32
28	PASSENGER HEAD (Z) ACCELERATION VS TIME	B- 33
29	PASSENGER HEAD (Z) VELOCITY VS TIME	B- 34
30	PASSENGER HEAD RESULTANT ACCELERATION VS TIME	B- 35
31	DRIVER UPPER NECK (X) FORCE VS TIME	B- 36
32	DRIVER UPPER NECK (Y) FORCE VS TIME	B- 37
33	DRIVER UPPER NECK (Z) FORCE VS TIME	B- 38
34	DRIVER UPPER NECK RESULTANT FORCE VS TIME	B- 39
35	DRIVER UPPER NECK (X) MOMENT VS TIME	B- 40
36	DRIVER UPPER NECK (Y) MOMENT VS TIME	B- 41
37	DRIVER UPPER NECK (Z) MOMENT VS TIME	B- 42
38	DRIVER UPPER NECK RESULTANT MOMENT VS TIME	B- 43
39	PASSENGER UPPER RIB (Y) ACCELERATION VS TIME	B- 44
40	PASSENGER UPPER RIB (Y) VELOCITY VS TIME	B- 45
41	PASSENGER LOWER RIB (Y) ACCELERATION VS TIME	B- 46
42	PASSENGER LOWER RIB (Y) VELOCITY VS TIME	B- 47
43	PASSENGER LOWER SPINE (Y) ACCELERATION VS TIME	B- 48
44	PASSENGER LOWER SPINE (Y) VELOCITY VS TIME	B- 49
45	PASSENGER PELVIC (Y) ACCELERATION VS TIME	B- 50
46	PASSENGER PELVIC (Y) VELOCITY VS TIME	B- 51

DRIVER & PASSENGER DUMMY INSTRUMENTATION PLOTS

ACCELERATION DATA - FIR FILTERED

<u>Plot No.</u>	<u>Data Plot Title</u>	<u>Page</u>
47	DRIVER UPPER RIB (Y) ACCELERATION VS TIME	B- 52
48	DRIVER LOWER RIB (Y) ACCELERATION VS TIME	B- 53
49	DRIVER LOWER SPINE (Y) ACCELERATION VS TIME	B- 54
50	DRIVER PELVIC (Y) ACCELERATION VS TIME	B- 55
51	PASSENGER UPPER RIB (Y) ACCELERATION VS TIME	B- 56
52	PASSENGER LOWER RIB (Y) ACCELERATION VS TIME	B- 57
53	PASSENGER LOWER SPINE (Y) ACCELERATION VS TIME	B- 58
54	PASSENGER PELVIC (Y) ACCELERATION VS TIME	B- 59

TEST VEHICLE INSTRUMENTATION PLOTS
ACCELERATION DATA - FILTER CLASS 60
INTEGRATION DATA - FILTER CLASS 180

<u>Plot No.</u>	<u>Data Plot Title</u>	<u>Page</u>
55	RIGHT SIDE SILL AT FRONT SEAT (X) ACCELERATION VS TIME	B- 60
56	RIGHT SIDE SILL AT FRONT SEAT (X) VELOCITY VS TIME	B- 61
57	RIGHT SIDE SILL AT FRONT SEAT (Y) ACCELERATION VS TIME	B- 62
58	RIGHT SIDE SILL AT FRONT SEAT (Y) VELOCITY VS TIME	B- 63
59	RIGHT SIDE SILL AT FRONT SEAT (Z) ACCELERATION VS TIME	B- 64
60	RIGHT SIDE SILL AT FRONT SEAT (Z) VELOCITY VS TIME	B- 65
61	RIGHT SIDE SILL AT FRONT SEAT RESULTANT ACCELERATION VS TIME	B- 66
62	RIGHT SIDE SILL AT REAR SEAT (X) ACCELERATION VS TIME	B- 67
63	RIGHT SIDE SILL AT REAR SEAT (X) VELOCITY VS TIME	B- 68
64	RIGHT SIDE SILL AT REAR SEAT (Y) ACCELERATION VS TIME	B- 69
65	RIGHT SIDE SILL AT REAR SEAT (Y) VELOCITY VS TIME	B- 70
66	RIGHT SIDE SILL AT REAR SEAT (Z) ACCELERATION VS TIME	B- 71
67	RIGHT SIDE SILL AT REAR SEAT (Z) VELOCITY VS TIME	B- 72
68	RIGHT SIDE SILL AT REAR SEAT RESULTANT ACCELERATION VS TIME	B- 73
69	REAR FLOORPAN ABOVE AXLE (X) ACCELERATION VS TIME	B- 74
70	REAR FLOORPAN ABOVE AXLE (X) VELOCITY VS TIME	B- 75
71	REAR FLOORPAN ABOVE AXLE (Y) ACCELERATION VS TIME	B- 76
72	REAR FLOORPAN ABOVE AXLE (Y) VELOCITY VS TIME	B- 77
73	REAR FLOORPAN ABOVE AXLE (Z) ACCELERATION VS TIME	B- 78
74	REAR FLOORPAN ABOVE AXLE (Z) VELOCITY VS TIME	B- 79
75	REAR FLOORPAN ABOVE AXLE RESULTANT ACCELERATION VS TIME	B- 80
76	LEFT SIDE SILL AT REAR SEAT (Y) ACCELERATION VS TIME	B- 81
77	LEFT SIDE SILL AT REAR SEAT (Y) VELOCITY VS TIME	B- 82
78	LEFT SIDE SILL AT FRONT SEAT (Y) ACCELERATION VS TIME	B- 83
79	LEFT SIDE SILL AT FRONT SEAT (Y) VELOCITY VS TIME	B- 84
80	LEFT FRONT DOOR ON CENTERLINE (Y) ACCELERATION VS TIME	B- 85
81	LEFT FRONT DOOR ON CENTERLINE (Y) VELOCITY VS TIME	B- 86
82	RIGHT REAR OCCUPANT COMPARTMENT (Y) ACCELERATION VS TIME	B- 87
83	RIGHT REAR OCCUPANT COMPARTMENT (Y) VELOCITY VS TIME	B- 88
84	MID REAR OF LEFT FRONT DOOR (Y) ACCELERATION VS TIME	B- 89
85	MID REAR OF LEFT FRONT DOOR (Y) VELOCITY VS TIME	B- 90
86	LEFT FRONT DOOR UPPER CENTERLINE (Y) ACCELERATION VS TIME	B- 91
87	LEFT FRONT DOOR UPPER CENTERLINE (Y) VELOCITY VS TIME	B- 92
88	MID REAR OF LEFT REAR DOOR (Y) ACCELERATION VS TIME	B- 93
89	MID REAR OF LEFT REAR DOOR (Y) VELOCITY VS TIME	B- 94
90	LEFT REAR DOOR UPPER CENTERLINE (Y) ACCELERATION VS TIME	B- 95
91	LEFT REAR DOOR UPPER CENTERLINE (Y) VELOCITY VS TIME	B- 96
92	LOWER B-POST (Y) ACCELERATION VS TIME	B- 97
93	LOWER B-POST (Y) VELOCITY VS TIME	B- 98
94	UPPER B-POST (Y) ACCELERATION VS TIME	B- 99
95	UPPER B-POST (Y) VELOCITY VS TIME	B- 100
96	LOWER A-POST (Y) ACCELERATION VS TIME	B- 101

TEST VEHICLE INSTRUMENTATION PLOTS
ACCELERATION DATA - FILTER CLASS 60
INTEGRATION DATA - FILTER CLASS 180

<u>Plot No.</u>	<u>Data Plot Title</u>	<u>Page</u>
97	LOWER A-POST (Y) VELOCITY VS TIME	B- 102
98	UPPER A-POST (Y) ACCELERATION VS TIME	B- 103
99	UPPER A-POST (Y) VELOCITY VS TIME	B- 104
100	FRONT SEAT TRACK (Y) ACCELERATION VS TIME	B- 105
101	FRONT SEAT TRACK (Y) VELOCITY VS TIME	B- 106
102	REAR SEAT TRACK (Y) ACCELERATION VS TIME	B- 107
103	REAR SEAT TRACK (Y) VELOCITY VS TIME	B- 108
104	VEHICLE CENTER OF GRAVITY (X) ACCELERATION VS TIME	B- 109
105	VEHICLE CENTER OF GRAVITY (X) VELOCITY VS TIME	B- 110
106	VEHICLE CENTER OF GRAVITY (Y) ACCELERATION VS TIME	B- 111
107	VEHICLE CENTER OF GRAVITY (Y) VELOCITY ACCELERATION VS TIME	B- 112
108	VEHICLE CENTER OF GRAVITY (Z) ACCELERATION VS TIME	B- 113
109	VEHICLE CENTER OF GRAVITY (Z) VELOCITY VS TIME	B- 114
110	VEHICLE CENTER OF GRAVITY RESULTANT ACCELERATION VS TIME	B- 115

MDB INSTRUMENTATION PLOTS
ACCELERATION DATA - FILTER CLASS 60
INTEGRATION DATA - FILTER CLASS 180

<u>Plot No.</u>	<u>Data Plot Title</u>	<u>Page</u>
111	MDB CENTER OF GRAVITY (X) ACCELERATION VS TIME	B- 116
112	MDB CENTER OF GRAVITY (X) VELOCITY VS TIME	B- 117
113	MDB CENTER OF GRAVITY (Y) ACCELERATION VS TIME	B- 118
114	MDB CENTER OF GRAVITY (Y) VELOCITY VS TIME	B- 119
115	MDB CENTER OF GRAVITY (Z) ACCELERATION VS TIME	B- 120
116	MDB CENTER OF GRAVITY (Z) VELOCITY VS TIME	B- 121
117	MDB CENTER OF GRAVITY RESULTANT ACCELERATION VS TIME	B- 122
118	MDB REAR (X) ACCELERATION VS TIME	B- 123
119	MDB REAR (X) VELOCITY VS TIME	B- 124
120	MDB REAR (Y) ACCELERATION VS TIME	B- 125
121	MDB REAR (Y) VELOCITY VS TIME	B- 126

DRIVER & PASSENGER DUMMY INSTRUMENTATION PLOTS (REDUNDANT)
ACCELERATION DATA - FILTER CLASS 1000, LOWER SPINE - FILTER CLASS 180
INTEGRATION DATA - FILTER CLASS 180

<u>Plot No.</u>	<u>Data Plot Title</u>	<u>Page</u>
122	DRIVER UPPER RIB (Y) ACCELERATION VS TIME	B- 127
123	DRIVER UPPER RIB (Y) VELOCITY VS TIME	B- 128
124	DRIVER LOWER RIB (Y) ACCELERATION VS TIME	B- 129
125	DRIVER LOWER RIB (Y) VELOCITY VS TIME	B- 130
126	DRIVER LOWER SPINE (Y) ACCELERATION VS TIME	B- 131
127	DRIVER LOWER SPINE (Y) VELOCITY VS TIME	B- 132
128	DRIVER PELVIC (Y) ACCELERATION VS TIME	B- 133
129	DRIVER PELVIC (Y) VELOCITY VS TIME	B- 134
130	PASSENGER UPPER RIB (Y) ACCELERATION VS TIME	B- 135
131	PASSENGER UPPER RIB (Y) VELOCITY VS TIME	B- 136
132	PASSENGER LOWER RIB (Y) ACCELERATION VS TIME	B- 137
133	PASSENGER LOWER RIB (Y) VELOCITY VS TIME	B- 138
134	PASSENGER LOWER SPINE (Y) ACCELERATION VS TIME	B- 139
135	PASSENGER LOWER SPINE (Y) VELOCITY VS TIME	B- 140
136	PASSENGER PELVIC (Y) ACCELERATION VS TIME	B- 141
137	PASSENGER PELVIC (Y) VELOCITY VS TIME	B- 142

DRIVER & PASSENGER DUMMY INSTRUMENTATION PLOTS (REDUNDANT)
ACCELERATION DATA - FIR FILTERED

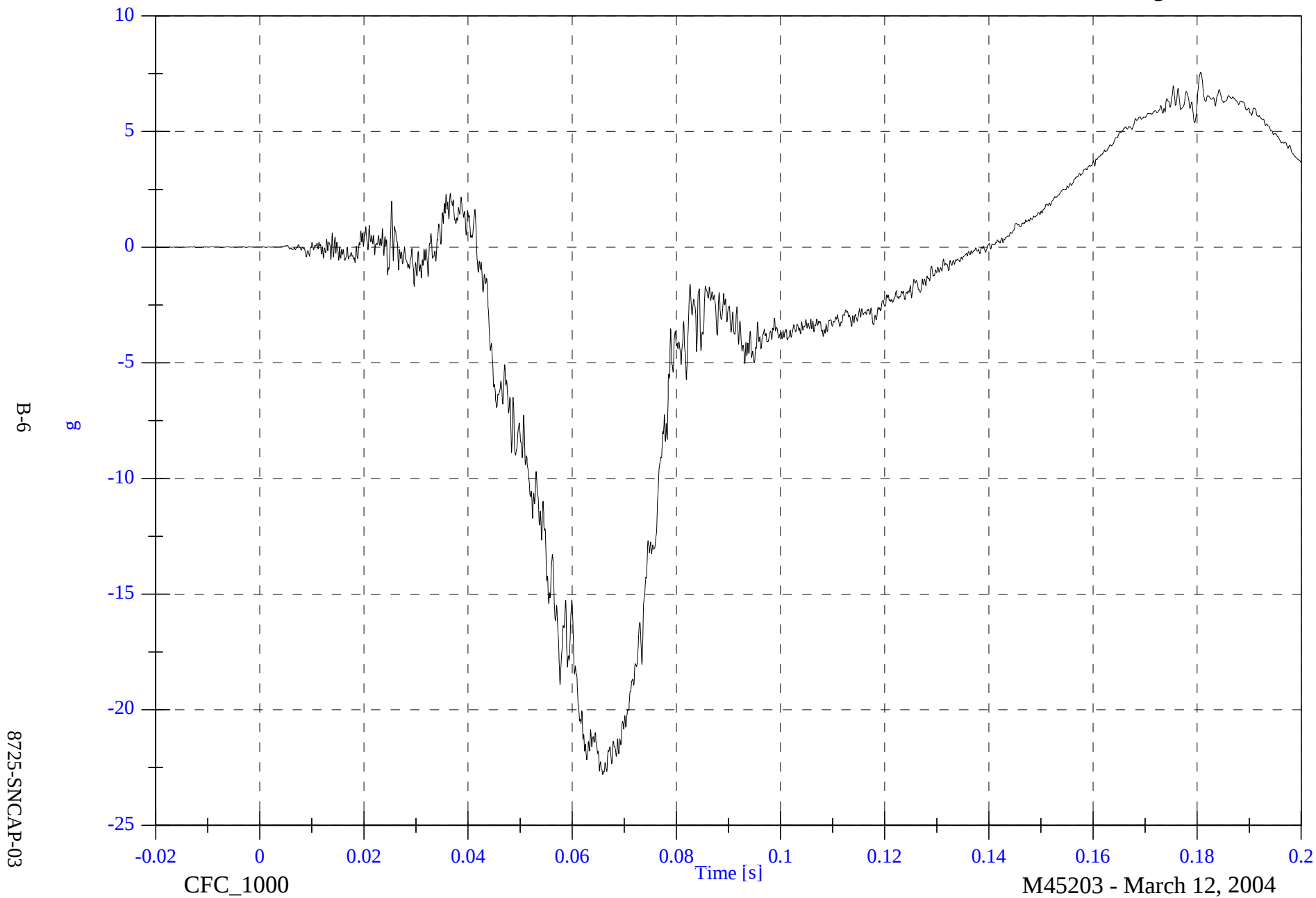
<u>Plot No.</u>	<u>Data Plot Title</u>	<u>Page</u>
138	DRIVER UPPER RIB (Y) ACCELERATION VS TIME	B- 143
139	DRIVER LOWER RIB (Y) ACCELERATION VS TIME	B- 144
140	DRIVER LOWER SPINE (Y) ACCELERATION VS TIME	B- 145
141	DRIVER PELVIC (Y) ACCELERATION VS TIME	B- 146
142	PASSENGER UPPER RIB (Y) ACCELERATION VS TIME	B- 147
143	PASSENGER LOWER RIB (Y) ACCELERATION VS TIME	B- 148
144	PASSENGER LOWER SPINE (Y) ACCELERATION VS TIME	B- 149
145	PASSENGER PELVIC (Y) ACCELERATION VS TIME	B- 150

2004 SNCAP Test 3 2004 Infinity FX35/45

V2P1 Head x

Max: 7.6 [g] at 0.181 [s]

Min: -22.8 [g] at 0.066 [s]

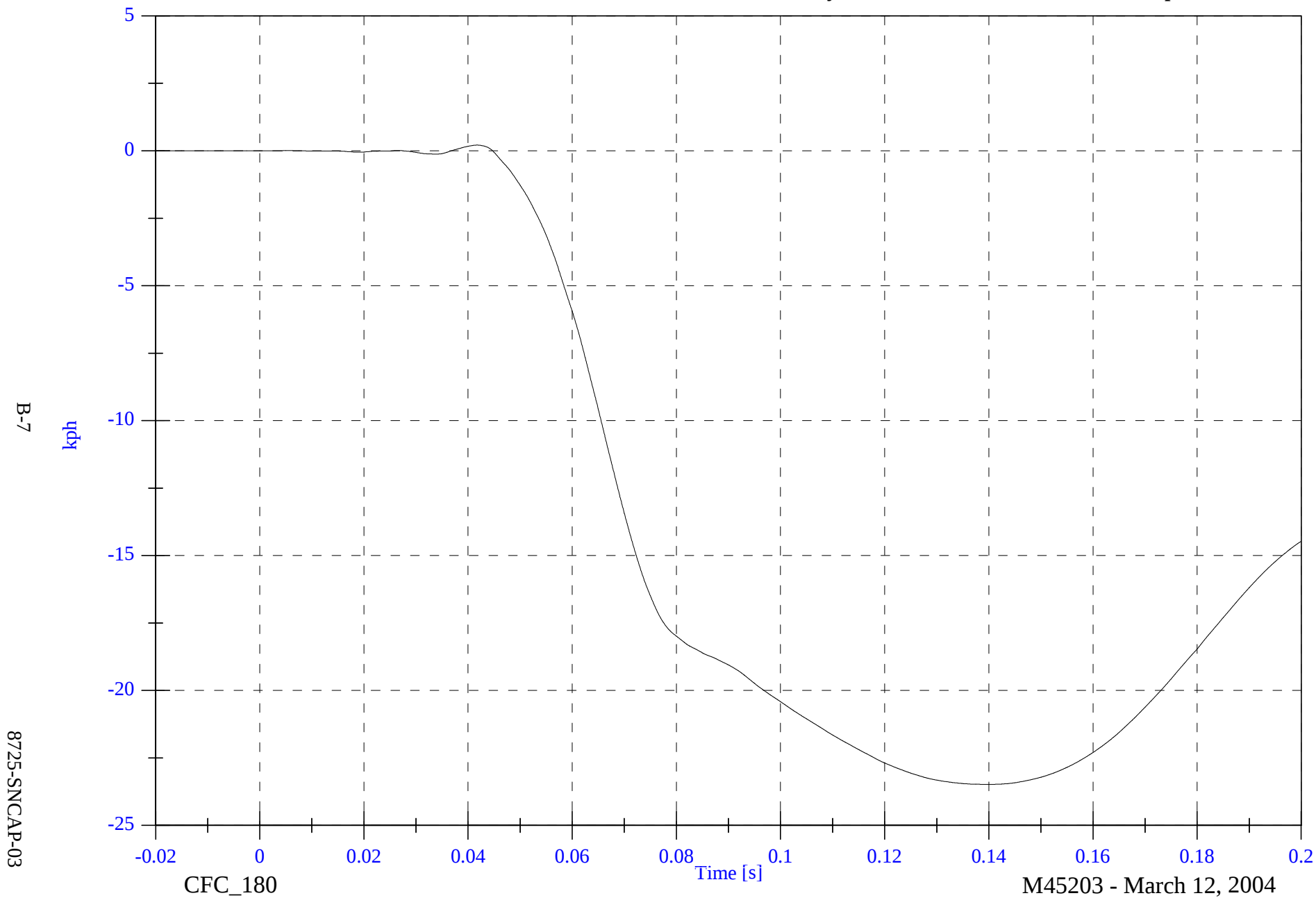


2004 SNCAP Test 3 2004 Infinity FX35/45

V2P1 Head x Velocity

Max: 0.2 [kph] at 0.042 [s]

Min: -23.5 [kph] at 0.140 [s]

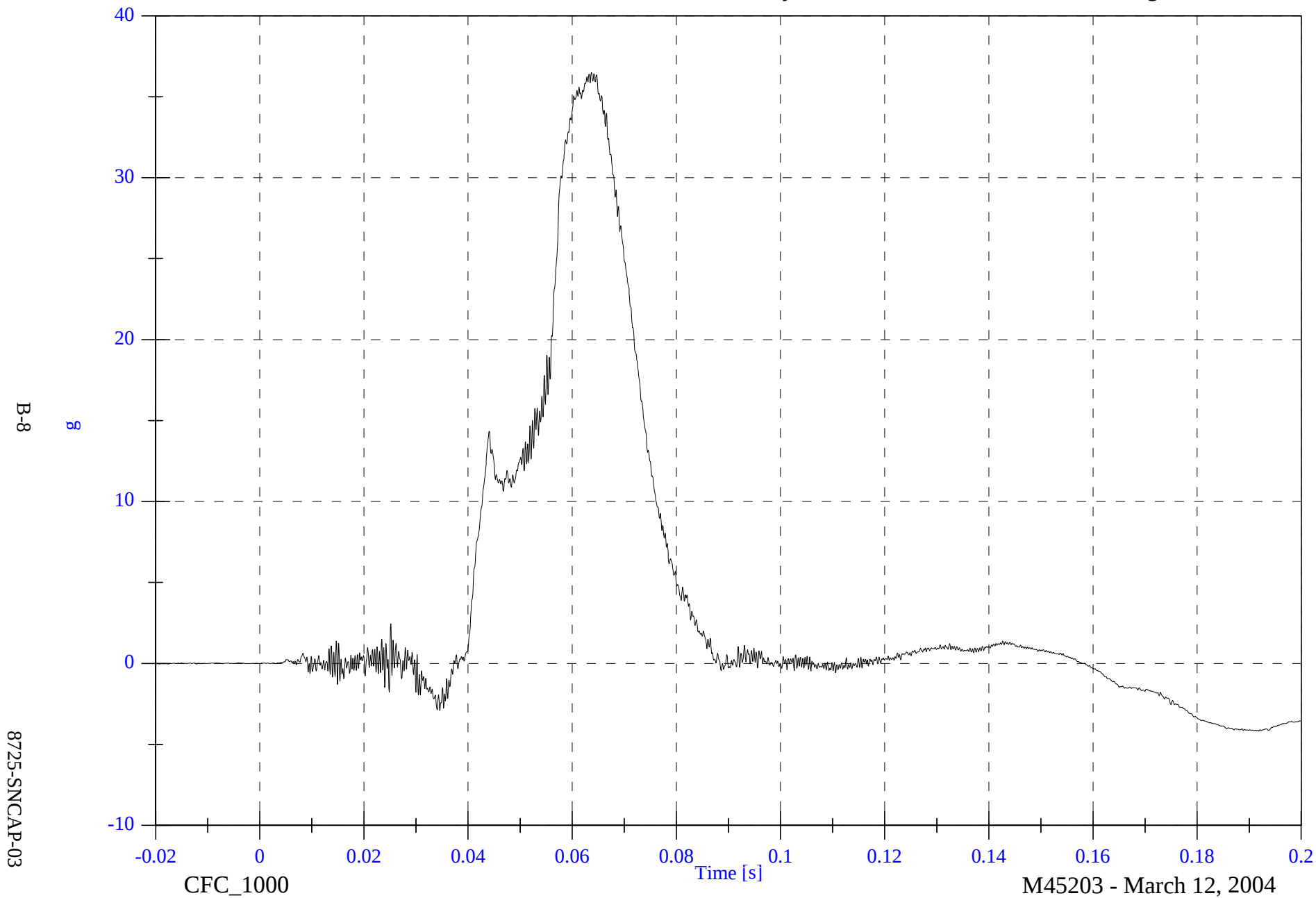


2004 SNCAP Test 3 2004 Infinity FX35/45

V2P1 Head y

Max: 36.5 [g] at 0.064 [s]

Min: -4.2 [g] at 0.192 [s]

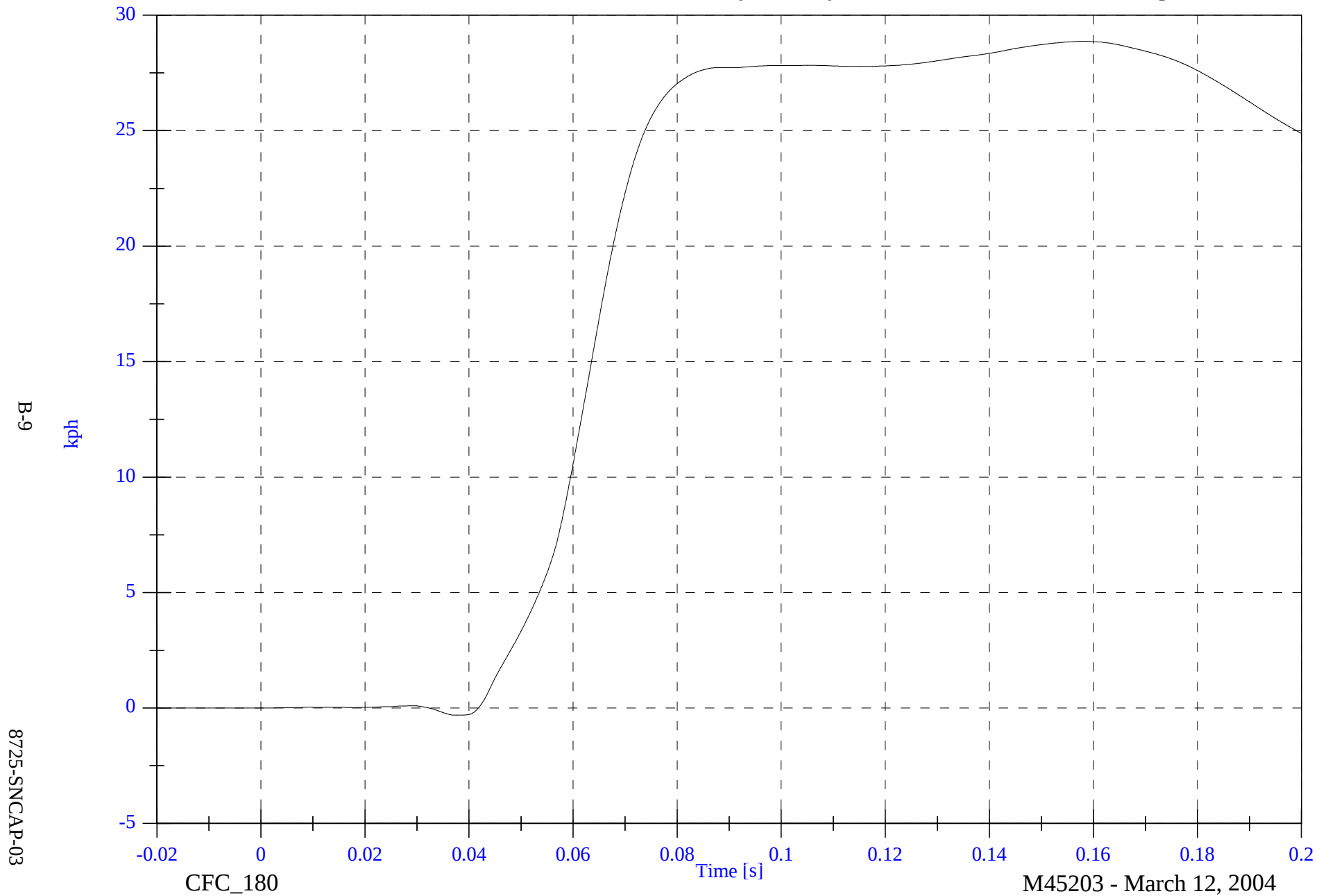


2004 SNCAP Test 3 2004 Infinity FX35/45

V2P1 Head y Velocity

Max: 28.9 [kph] at 0.158 [s]

Min: -0.3 [kph] at 0.038 [s]

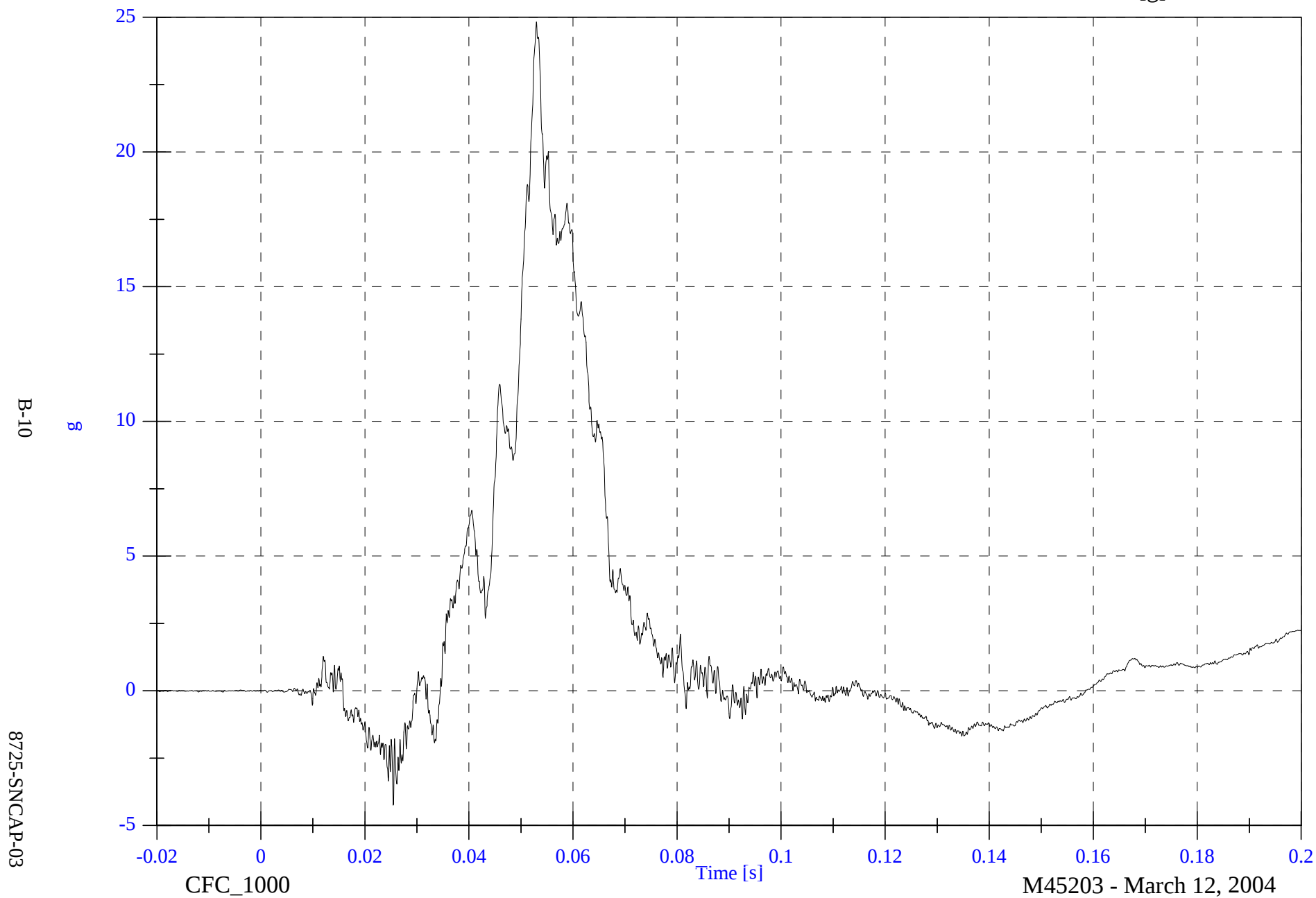


2004 SNCAP Test 3 2004 Infinity FX35/45

Max: 24.8 [g] at 0.053 [s]

Min: -4.2 [g] at 0.025 [s]

V2P1 Head z

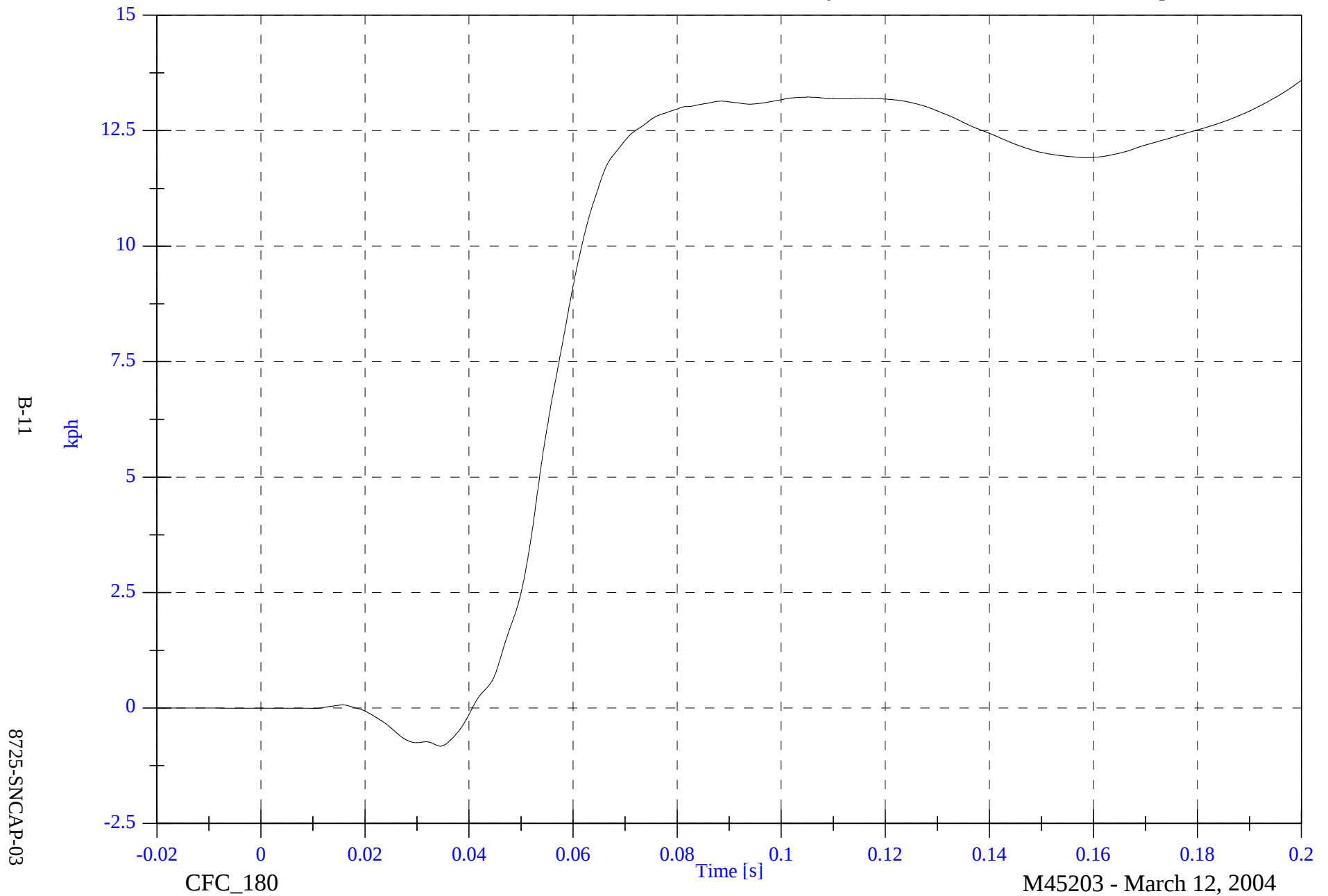


2004 SNCAP Test 3 2004 Infinity FX35/45

V2P1 Head z Velocity

Max: 13.6 [kph] at 0.200 [s]

Min: -0.8 [kph] at 0.034 [s]

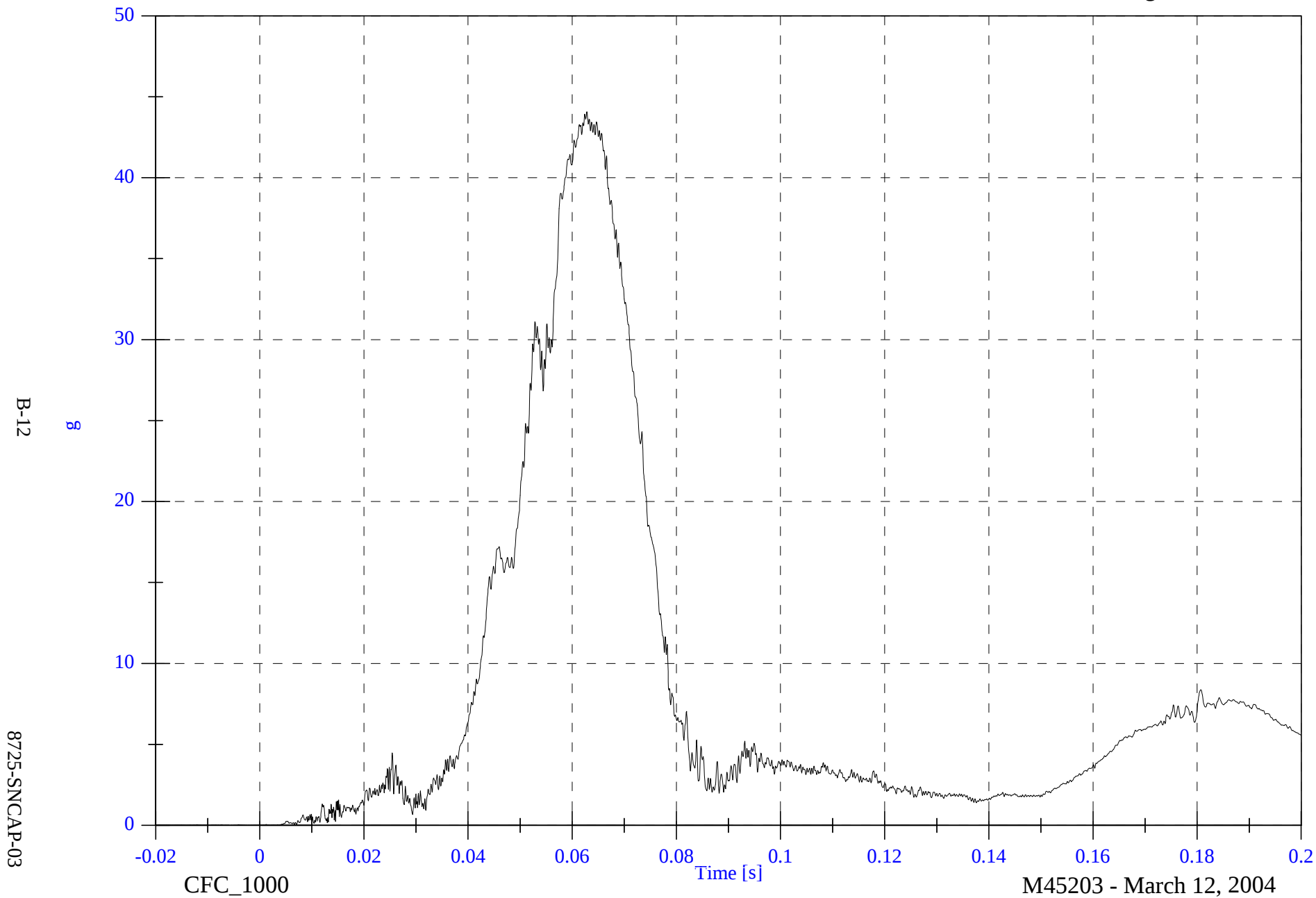


2004 SNCAP Test 3 2004 Infinity FX35/45

V2P1 Head Resultant

Max: 44.1 [g] at 0.063 [s]

Min: 0.0 [g] at -0.011 [s]

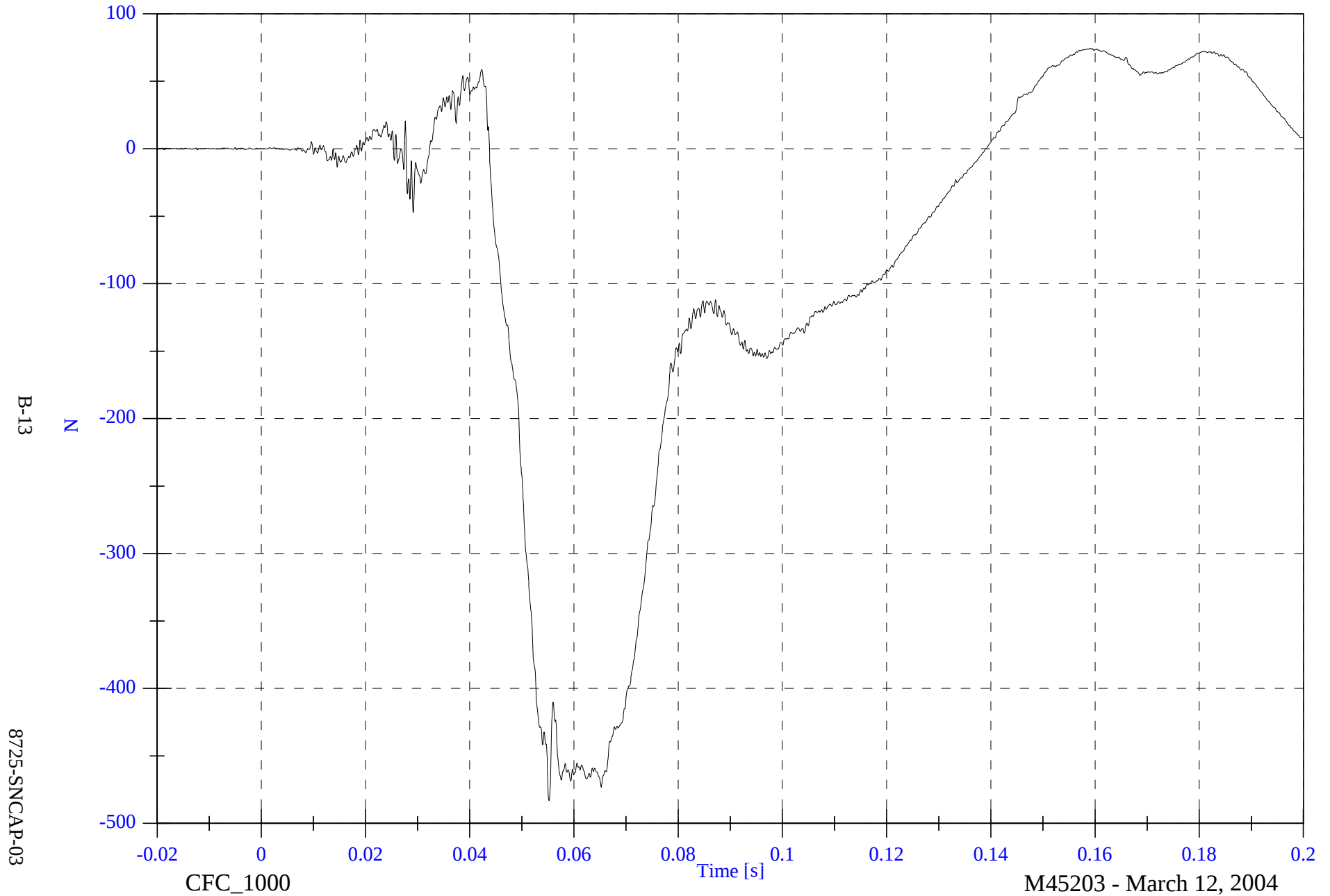


2004 SNCAP Test 3 2004 Infinity FX35/45

V2P1 Upper Neck Fx

Max: 74.5 [N] at 0.159 [s]

Min: -483.2 [N] at 0.055 [s]

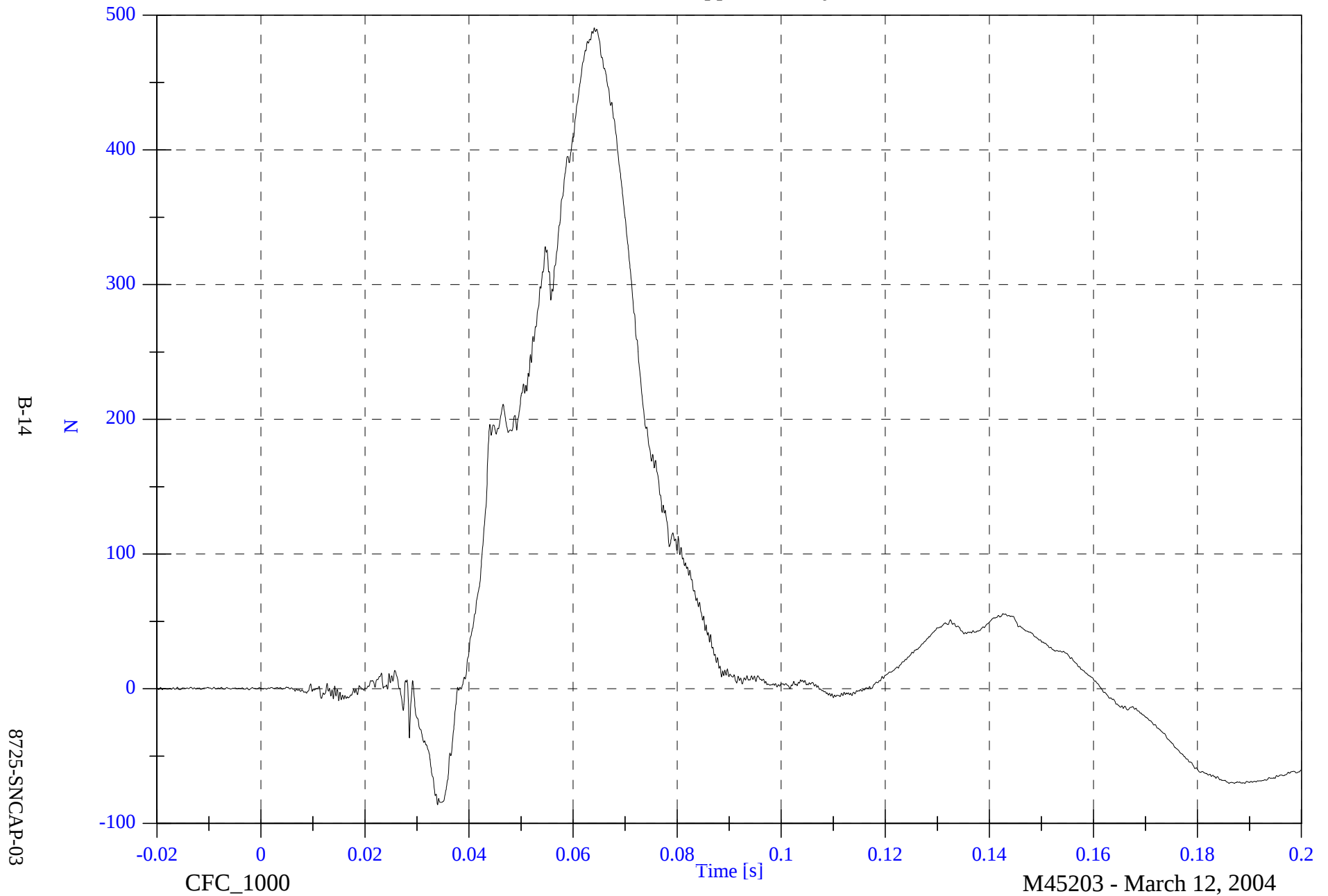


2004 SNCAP Test 3 2004 Infinity FX35/45

Max: 490.6 [N] at 0.064 [s]

Min: -86.1 [N] at 0.034 [s]

V2P1 Upper Neck Fy

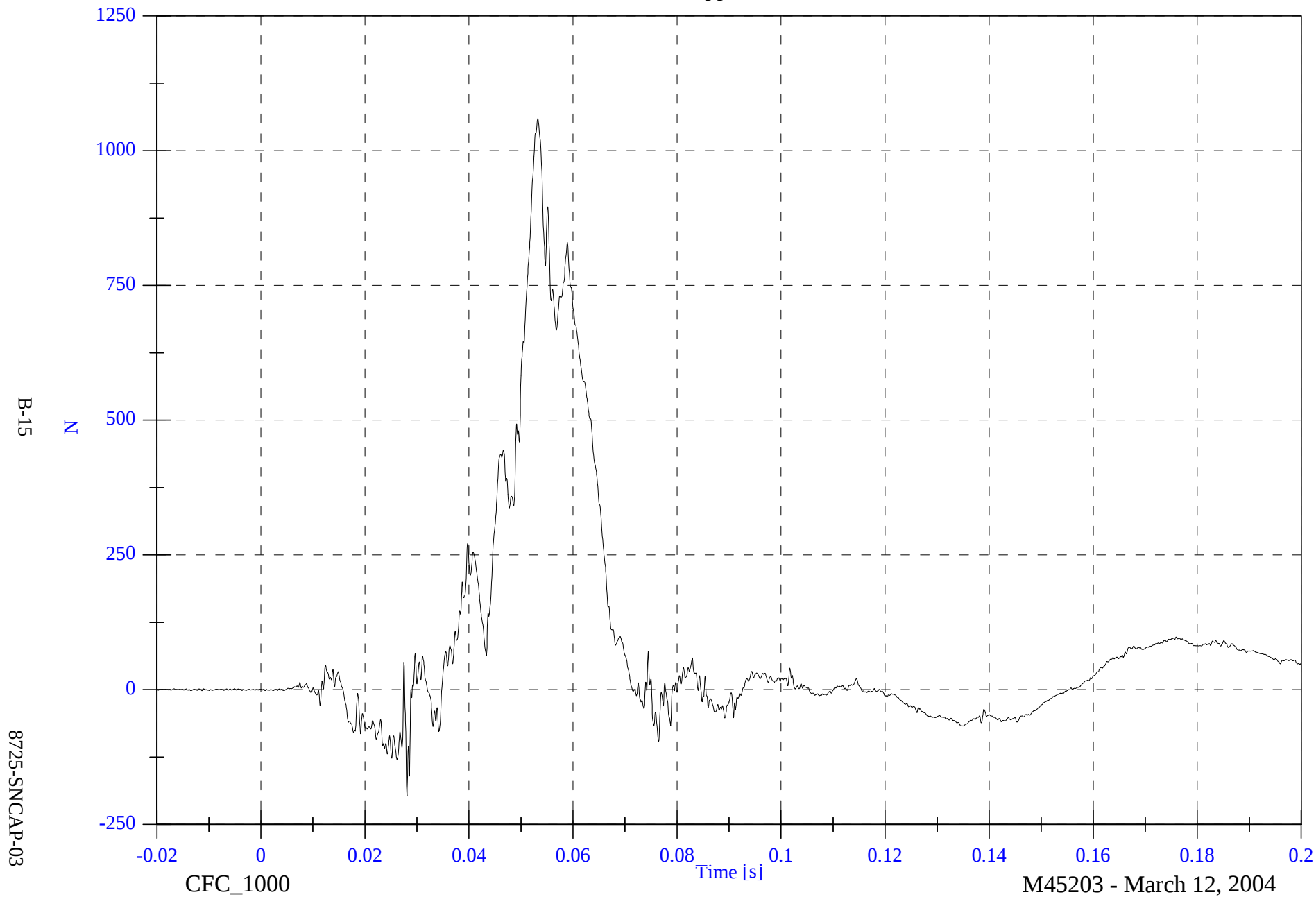


2004 SNCAP Test 3 2004 Infinity FX35/45

Max: 1059.5 [N] at 0.053 [s]

Min: -197.3 [N] at 0.028 [s]

V2P1 Upper Neck Fz

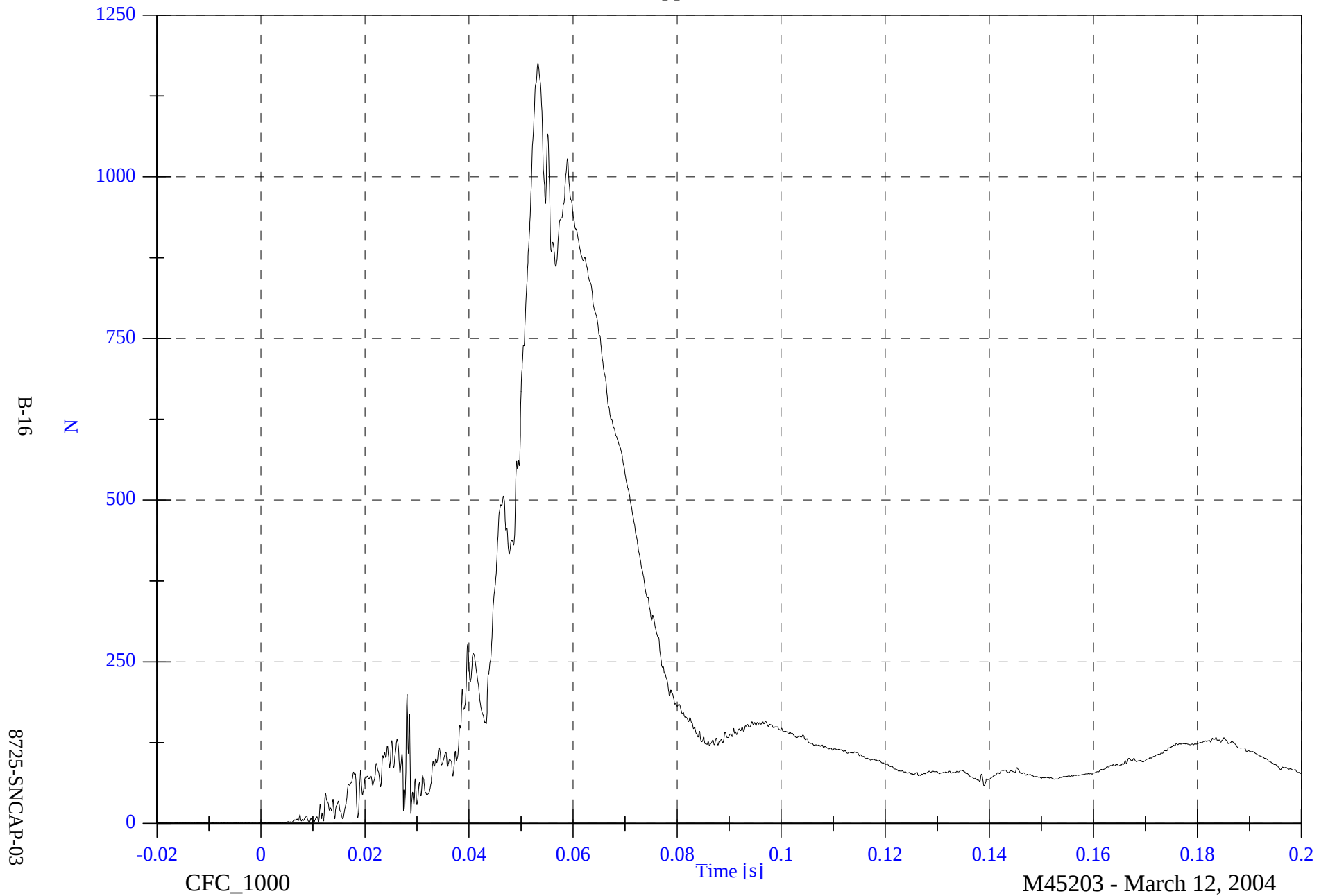


2004 SNCAP Test 3 2004 Infinity FX35/45

V2P1 Upper Neck F Resultant

Max: 1176.0 [N] at 0.053 [s]

Min: 0.1 [N] at -0.017 [s]

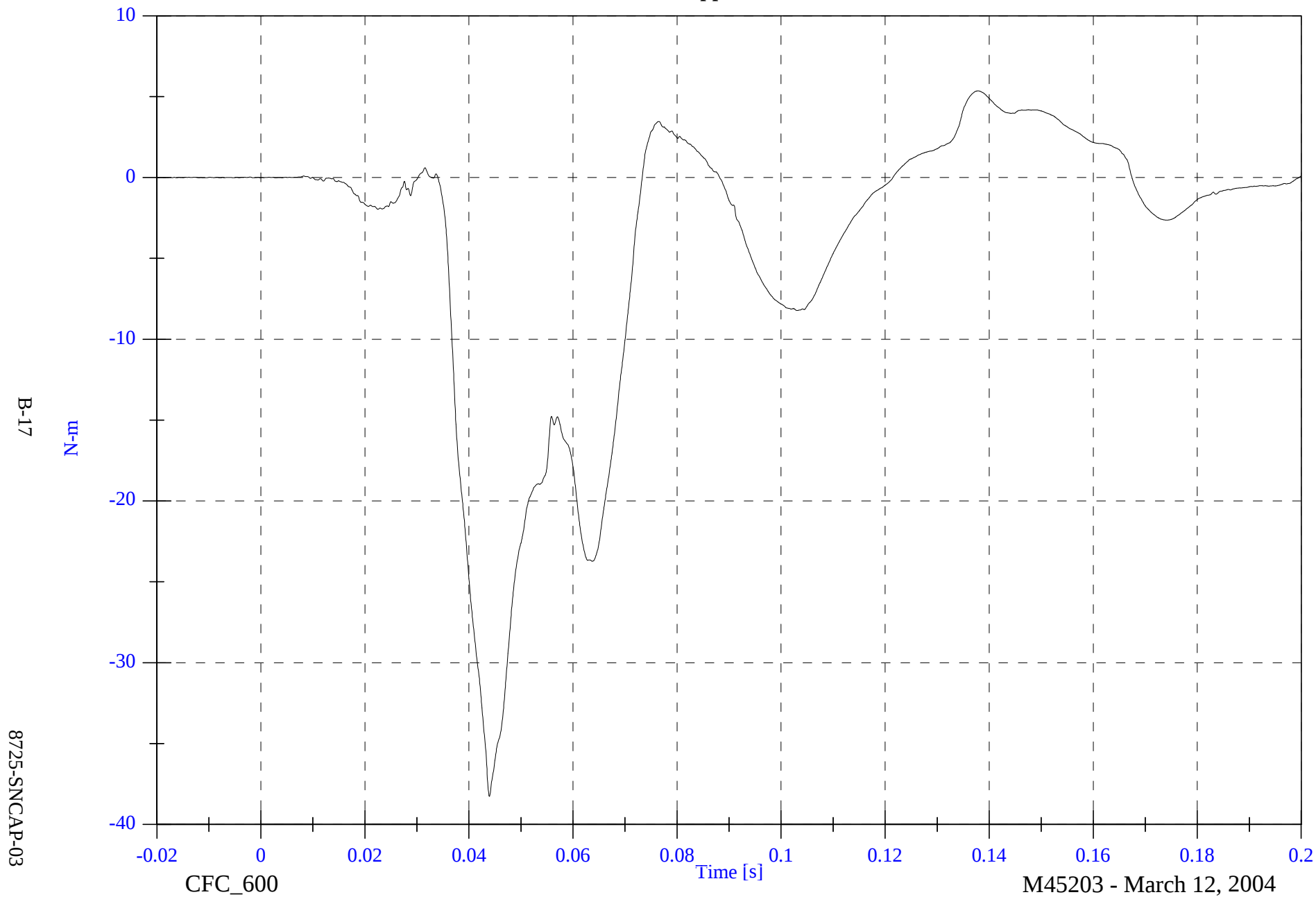


2004 SNCAP Test 3 2004 Infinity FX35/45

V2P1 Upper Neck Mx

Max: 5.4 [N-m] at 0.138 [s]

Min: -38.3 [N-m] at 0.044 [s]

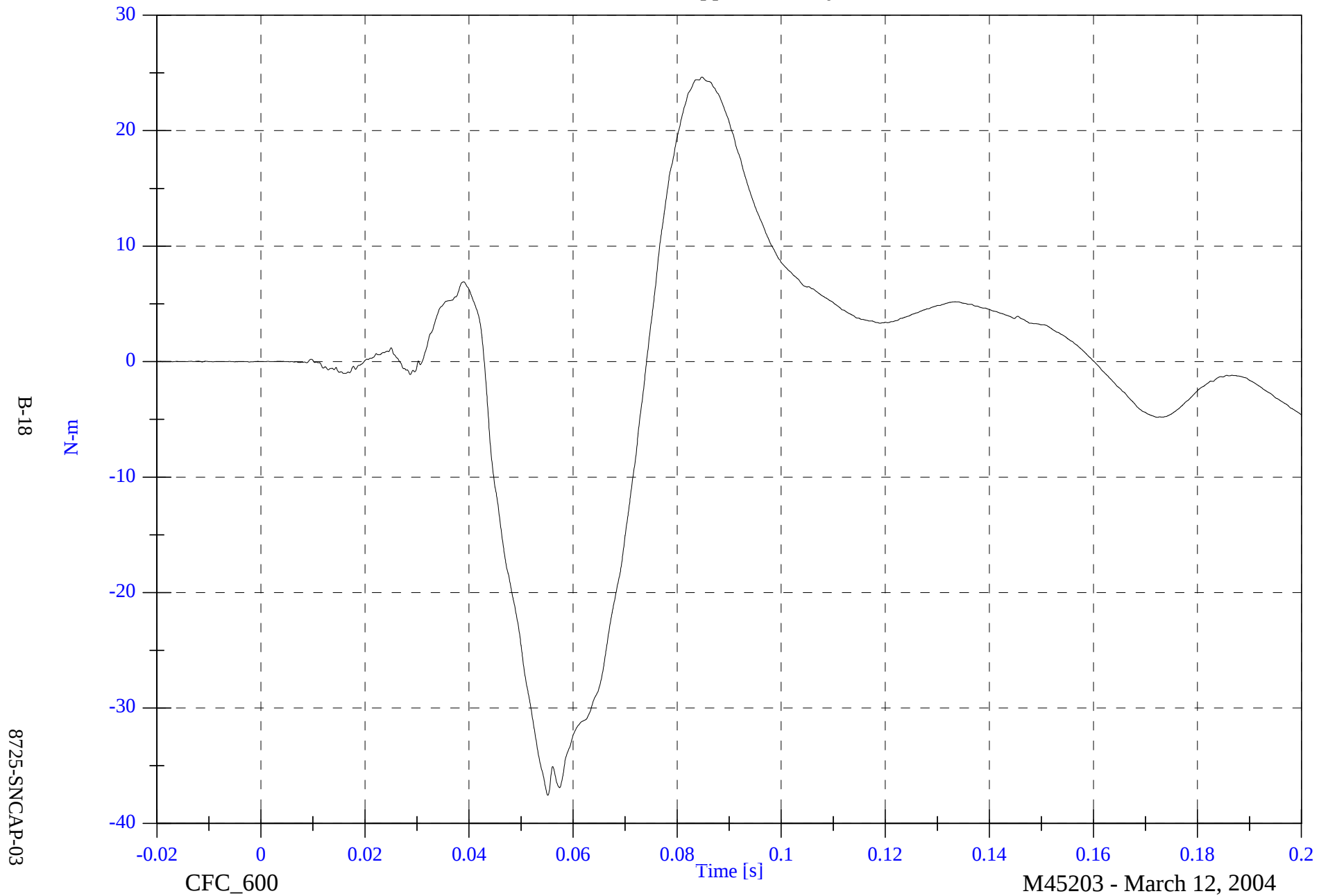


2004 SNCAP Test 3 2004 Infinity FX35/45

V2P1 Upper Neck My

Max: 24.6 [N-m] at 0.085 [s]

Min: -37.6 [N-m] at 0.055 [s]

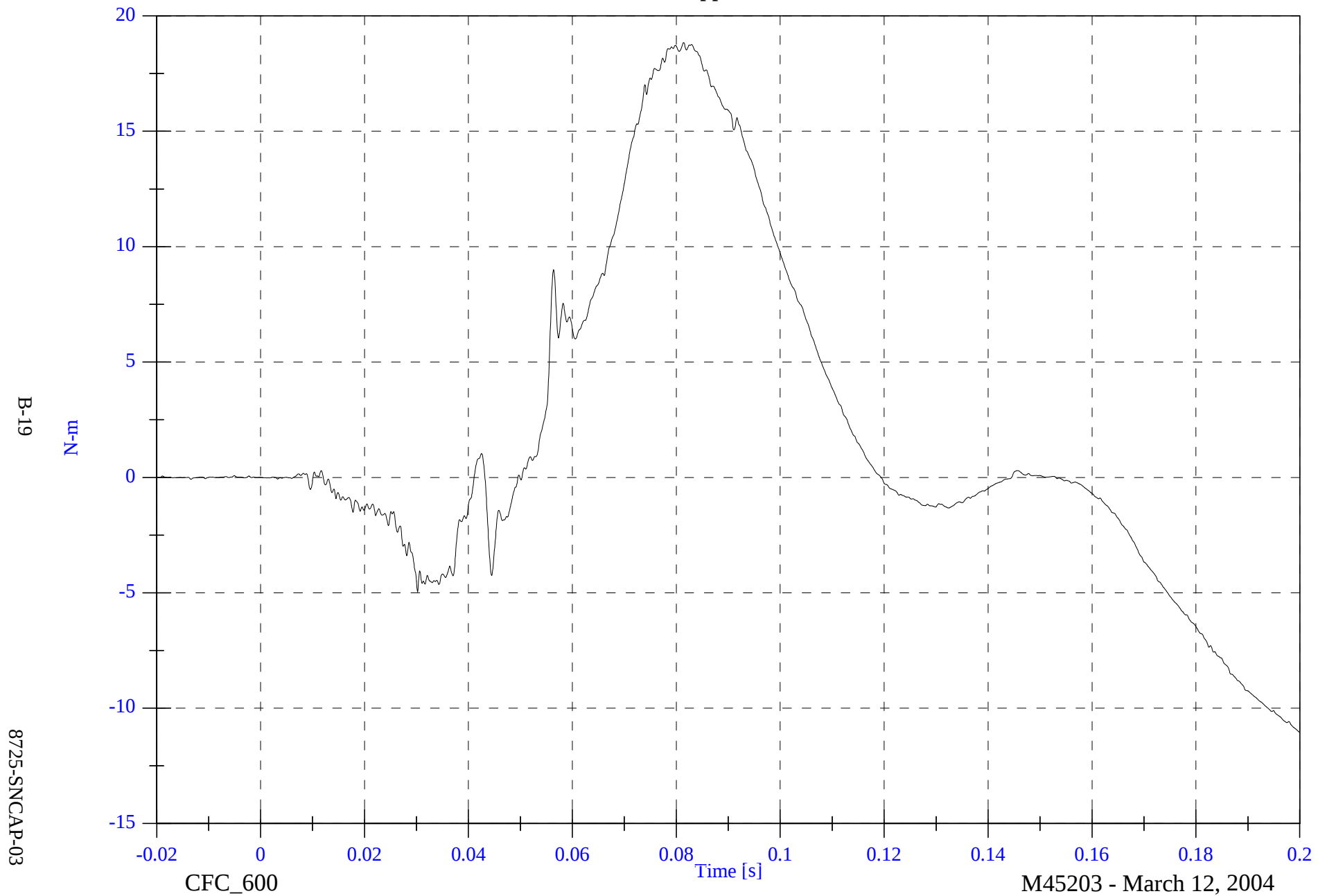


2004 SNCAP Test 3 2004 Infinity FX35/45

V2P1 Upper Neck Mz

Max: 18.8 [N-m] at 0.081 [s]

Min: -11.0 [N-m] at 0.200 [s]

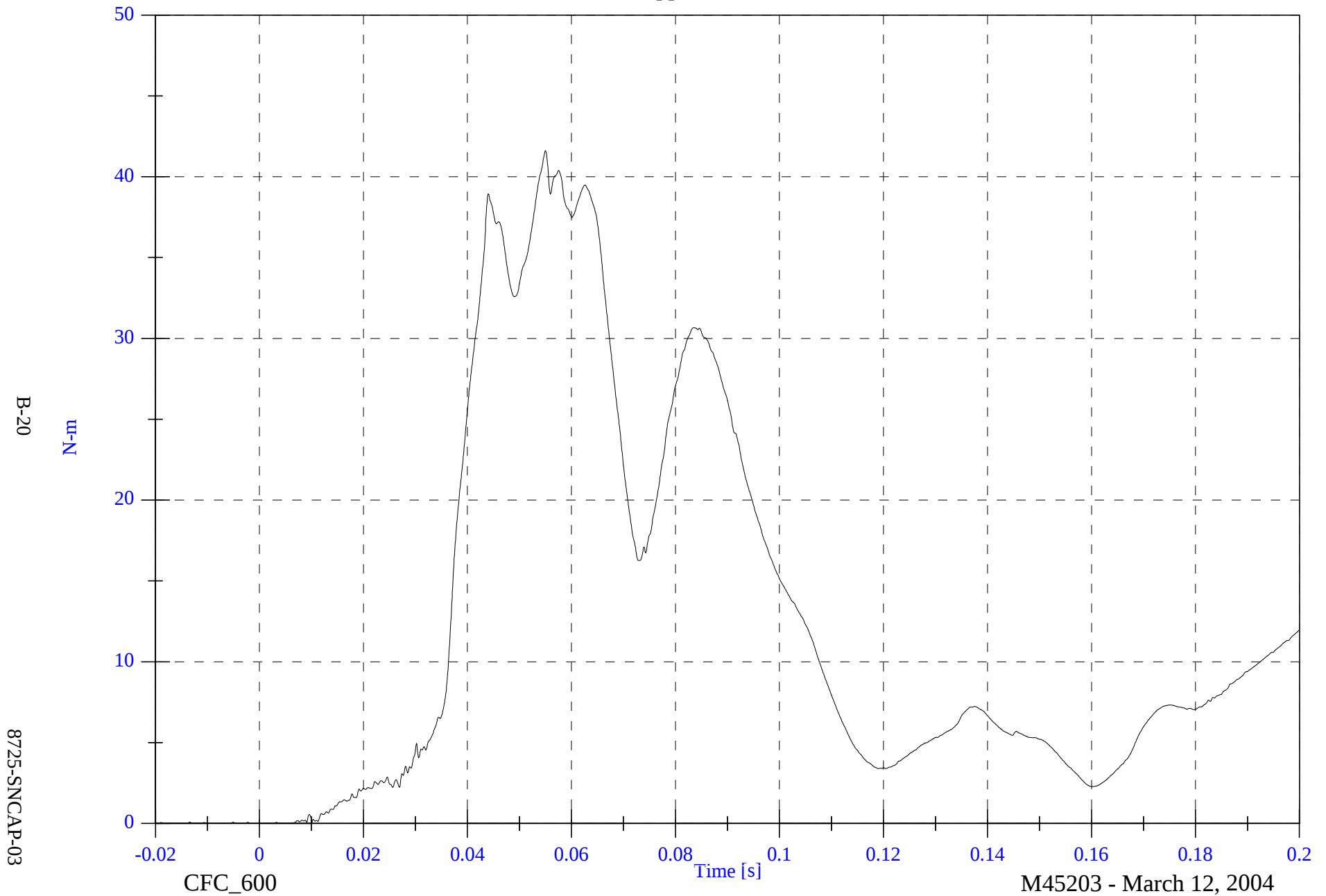


2004 SNCAP Test 3 2004 Infinity FX35/45

V2P1 Upper Neck M Resultant

Max: 41.6 [N-m] at 0.055 [s]

Min: 0.0 [N-m] at -0.003 [s]

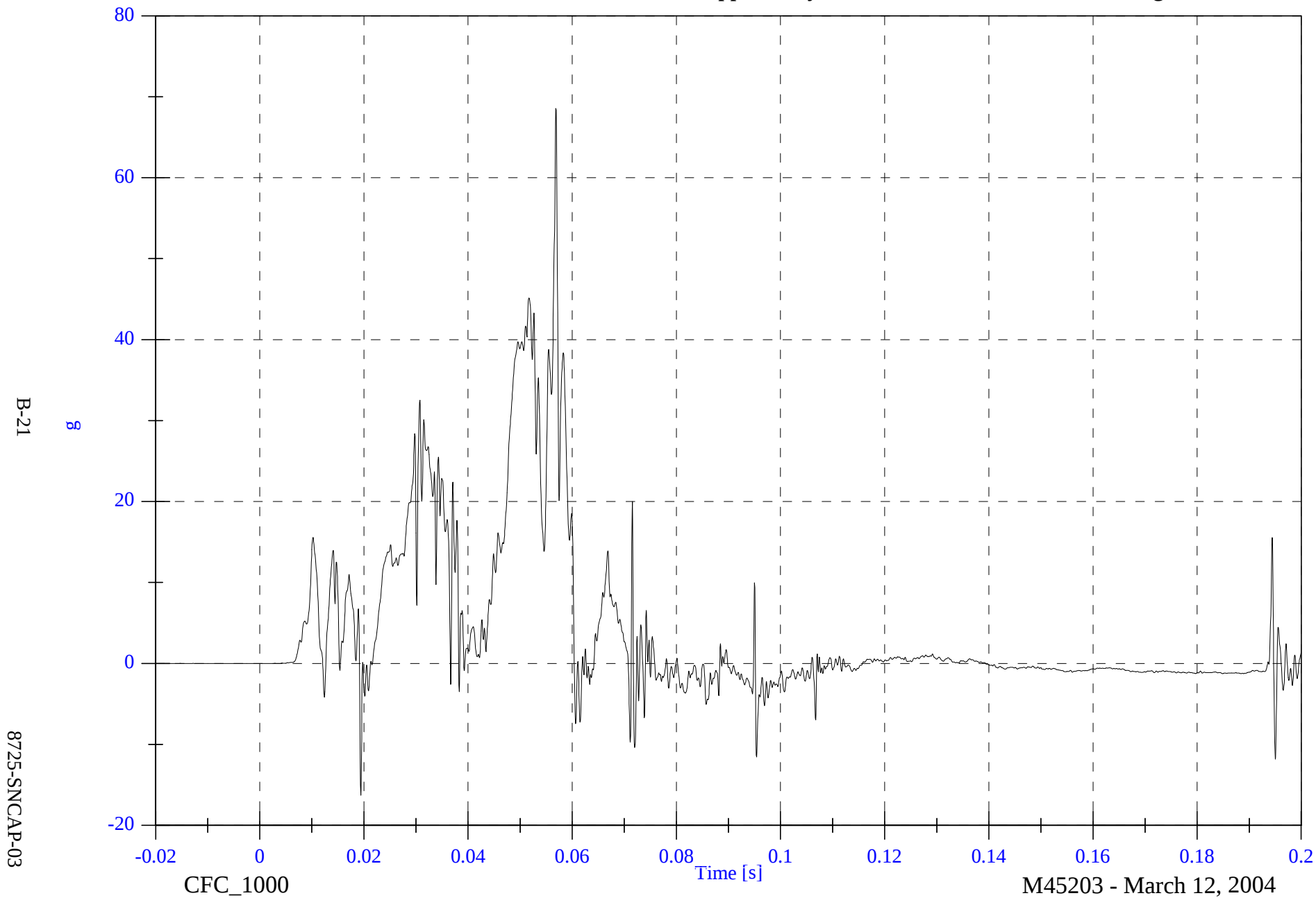


2004 SNCAP Test 3 2004 Infinity FX35/45

V2P1 Upper Rib y

Max: 68.6 [g] at 0.057 [s]

Min: -16.3 [g] at 0.019 [s]

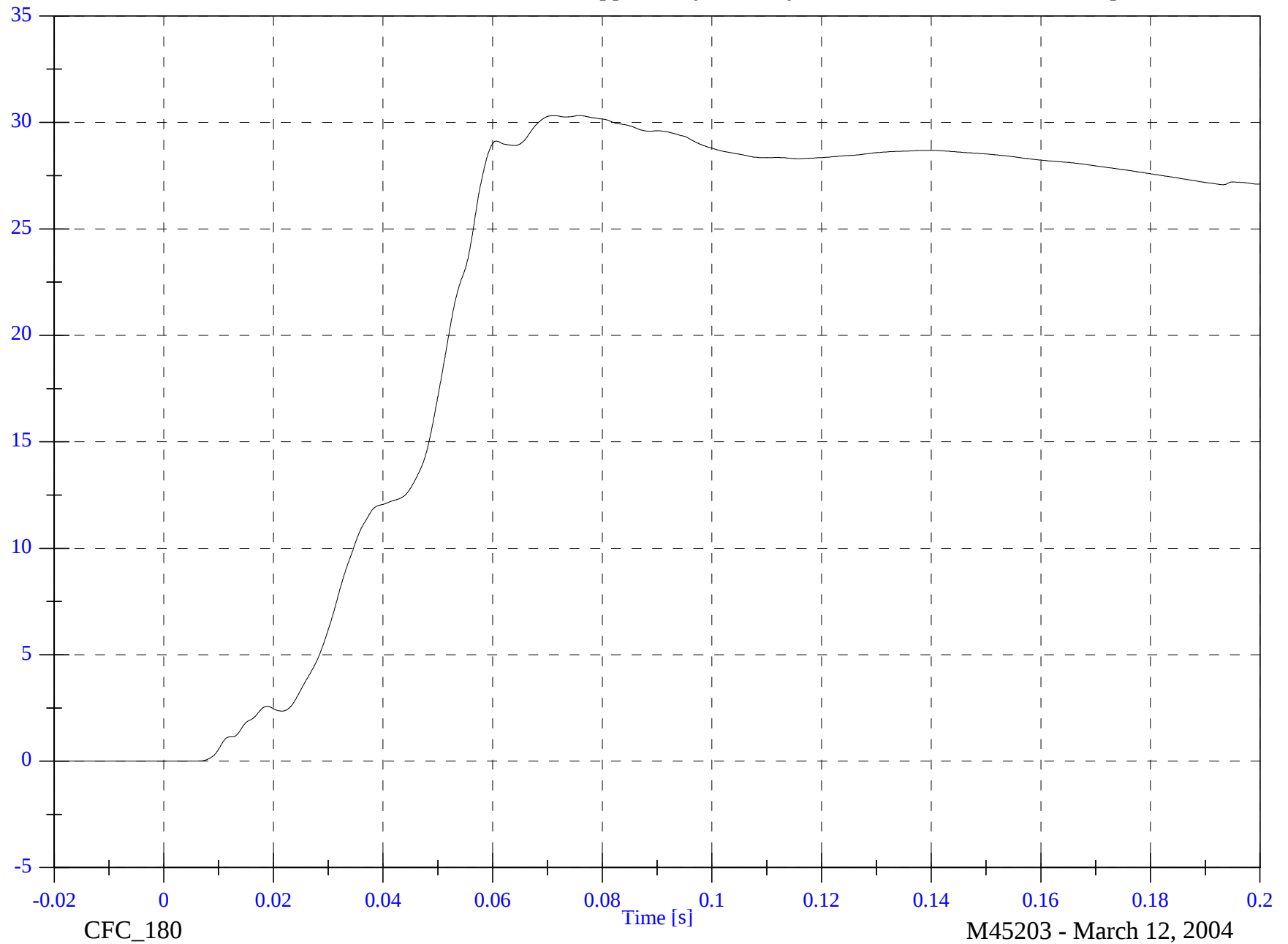


2004 SNCAP Test 3 2004 Infinity FX35/45

V2P1 Upper Rib y Velocity

Max: 30.3 [kph] at 0.076 [s]

Min: -0.0 [kph] at -0.020 [s]



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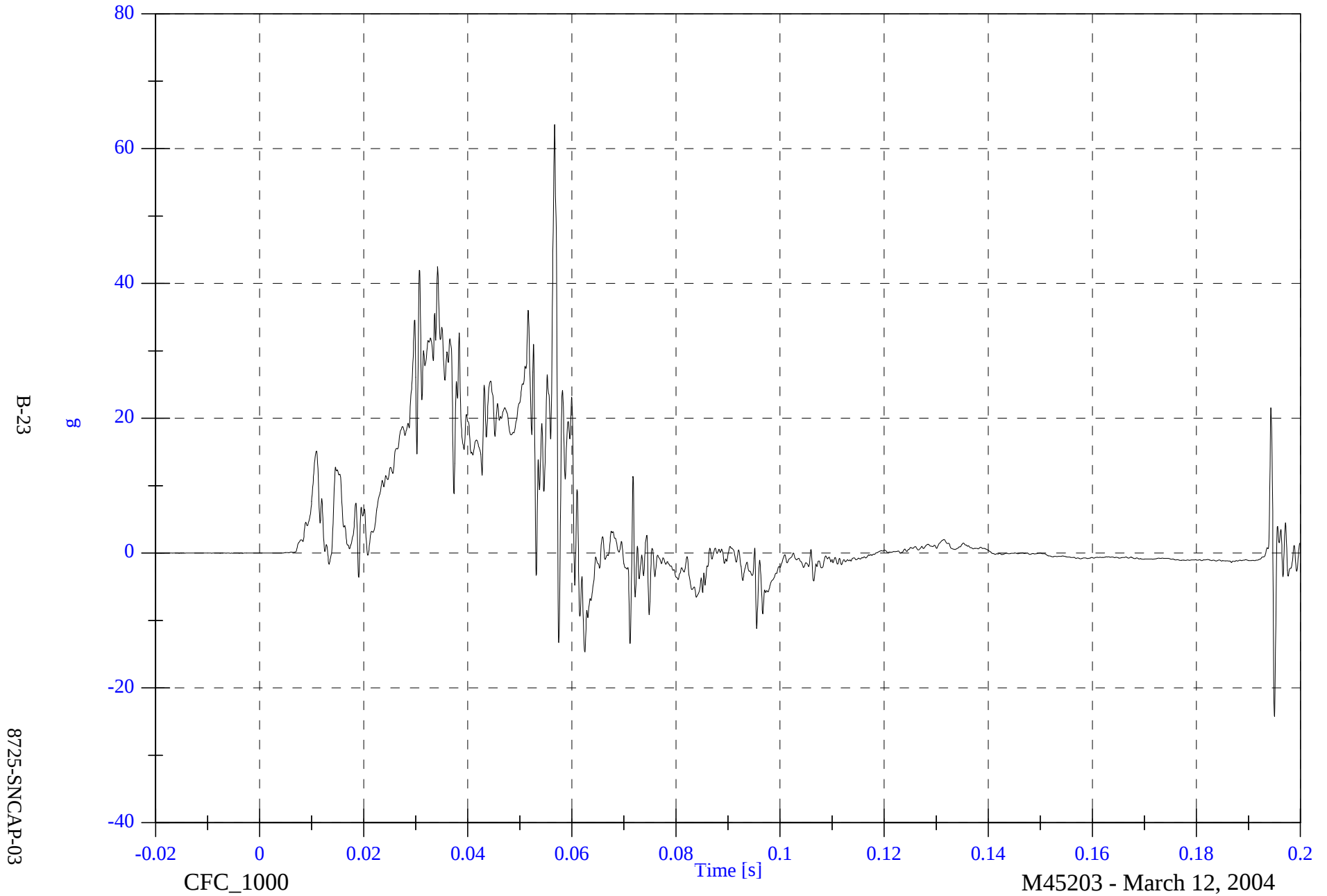
8725-SNCAP-03

2004 SNCAP Test 3 2004 Infinity FX35/45

V2P1 Lower Rib y

Max: 63.6 [g] at 0.057 [s]

Min: -24.3 [g] at 0.195 [s]

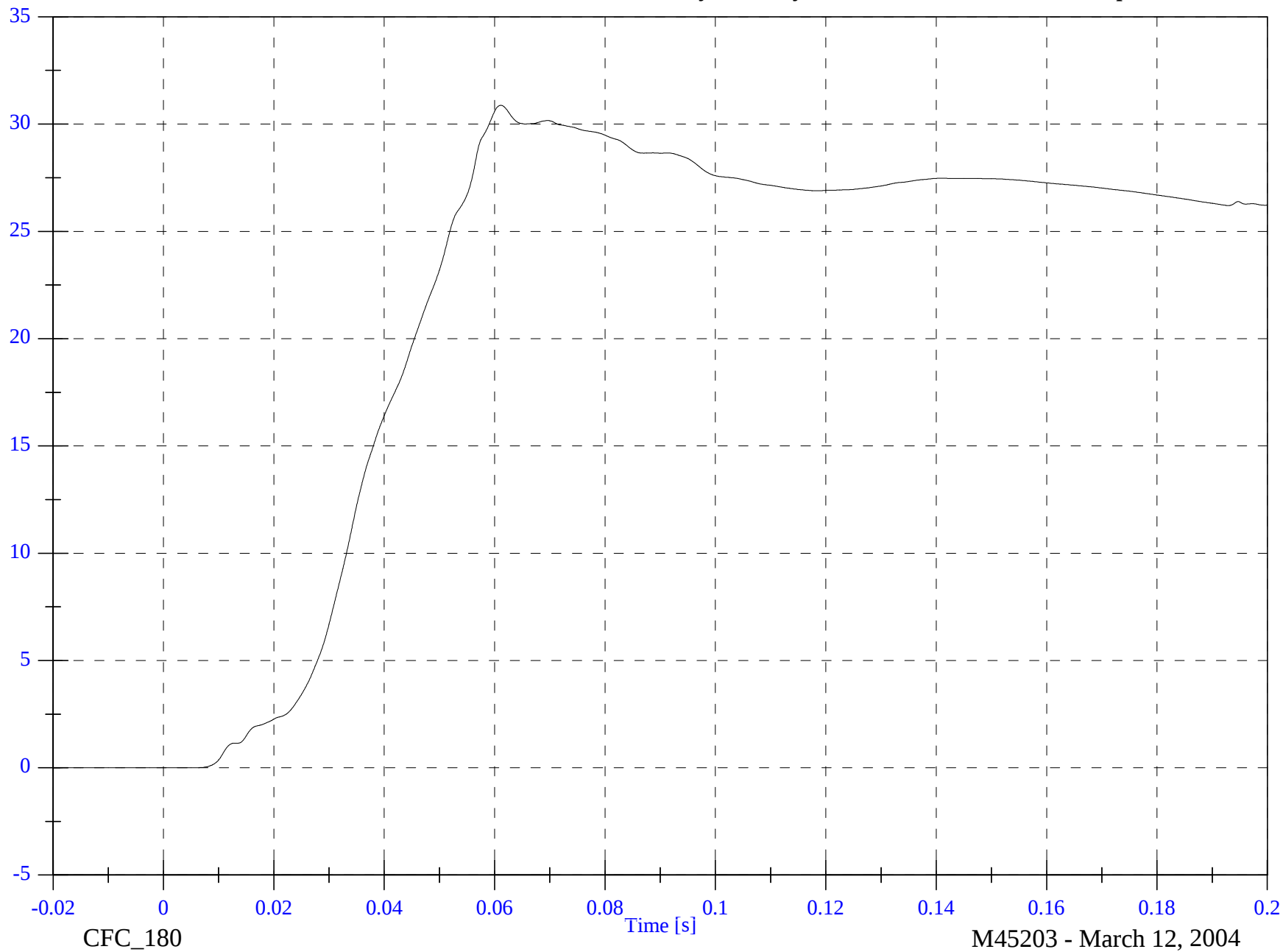


2004 SNCAP Test 3 2004 Infinity FX35/45

V2P1 Lower Rib y Velocity

Max: 30.9 [kph] at 0.061 [s]

Min: -0.0 [kph] at -0.020 [s]



B-24

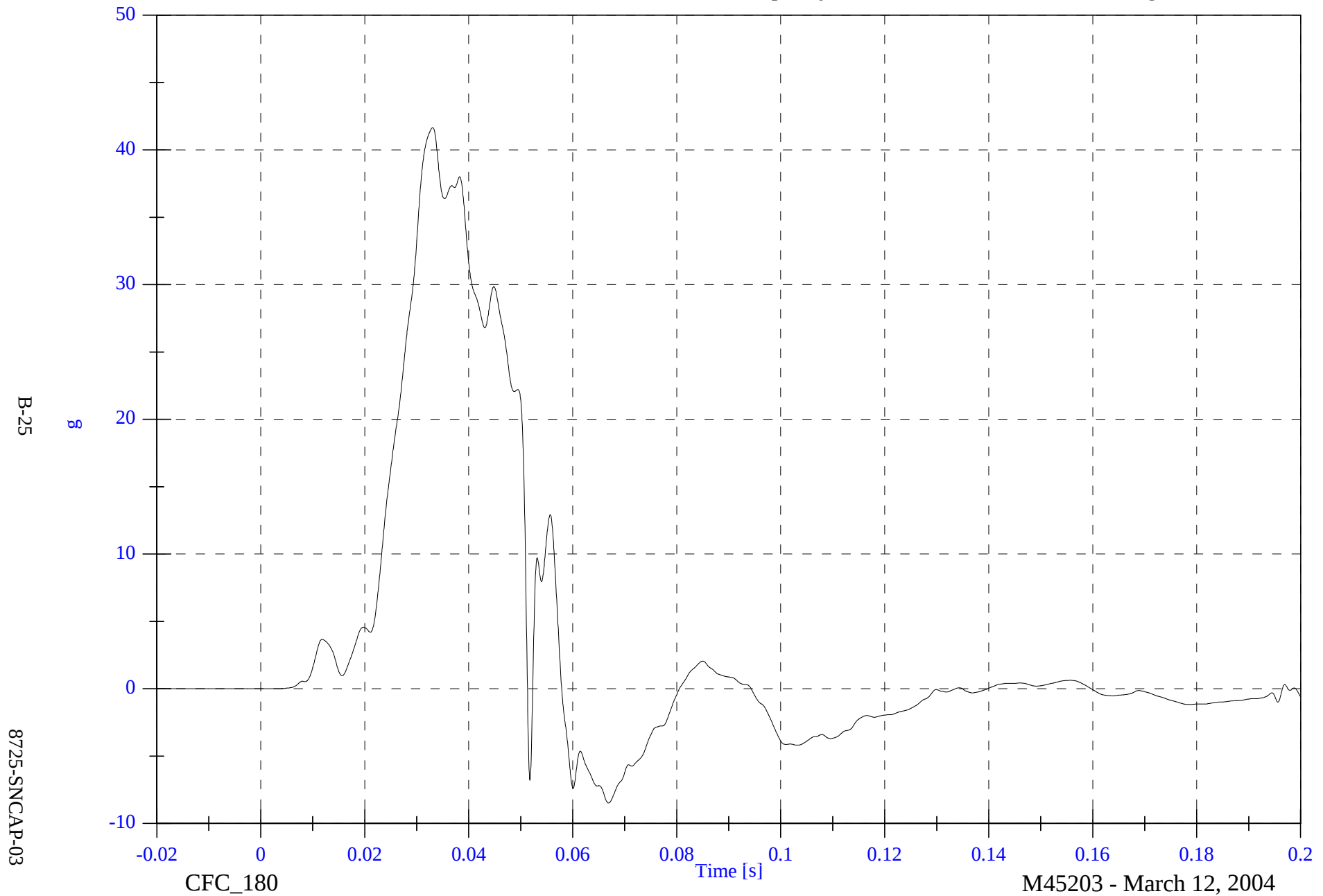
8725-SNCAP-03

2004 SNCAP Test 3 2004 Infinity FX35/45

V2P1 Lower Spine y

Max: 41.6 [g] at 0.033 [s]

Min: -8.5 [g] at 0.067 [s]

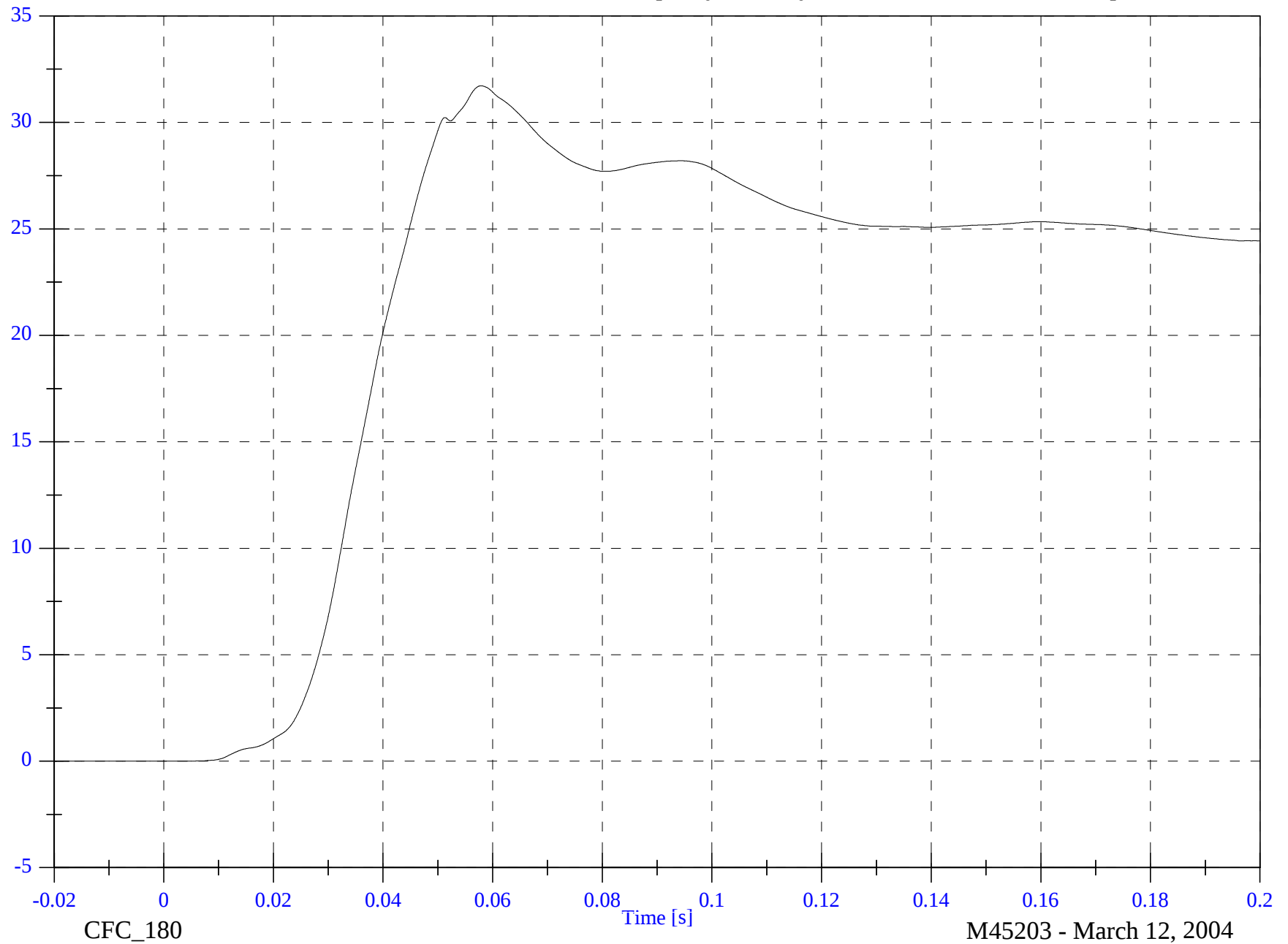


2004 SNCAP Test 3 2004 Infinity FX35/45

V2P1 Lower Spine y Velocity

Max: 31.7 [kph] at 0.058 [s]

Min: -0.0 [kph] at -0.020 [s]



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8725-SNCAP-03

CFC_180

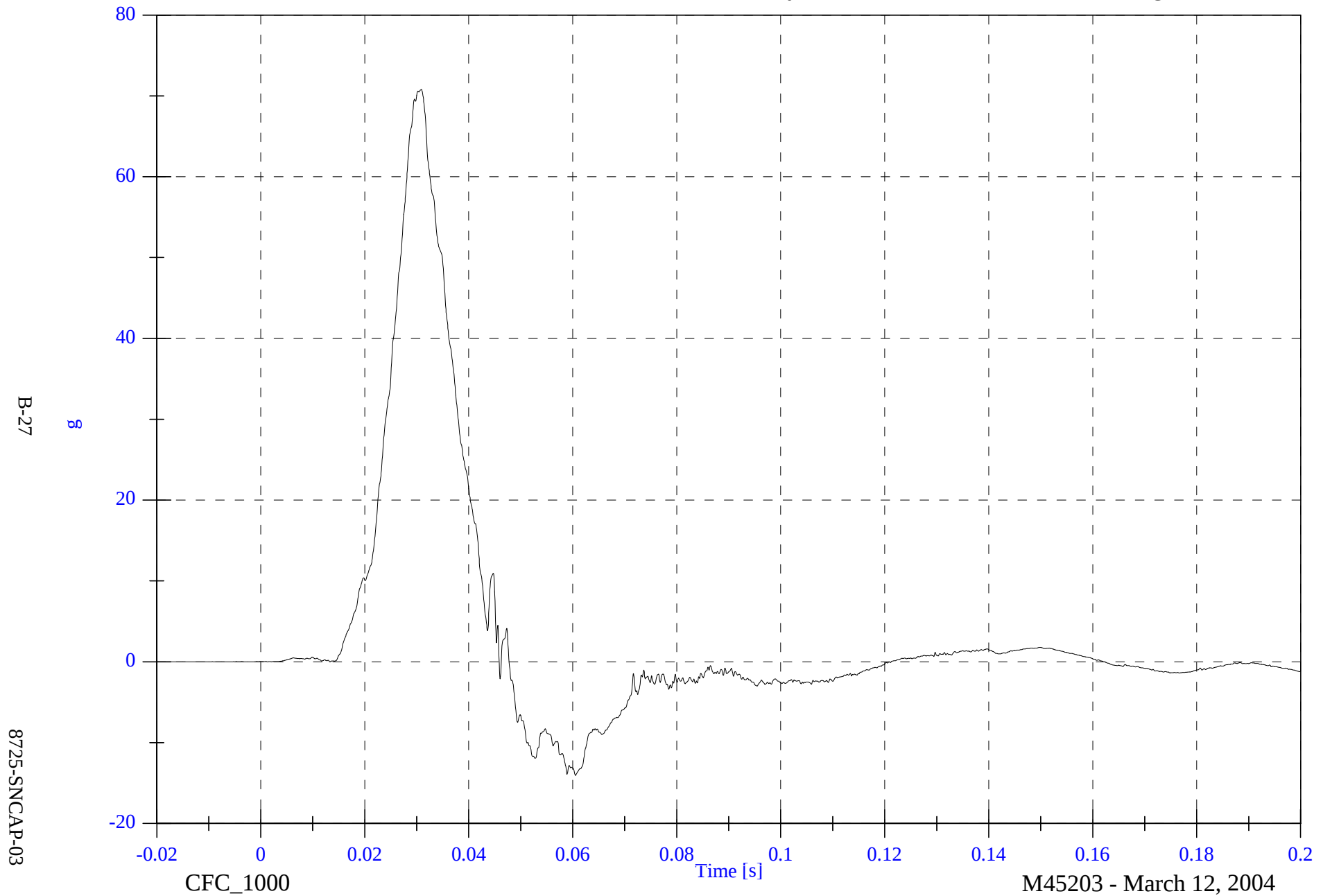
M45203 - March 12, 2004

2004 SNCAP Test 3 2004 Infinity FX35/45

V2P1 Pelvic y

Max: 70.8 [g] at 0.031 [s]

Min: -14.1 [g] at 0.061 [s]

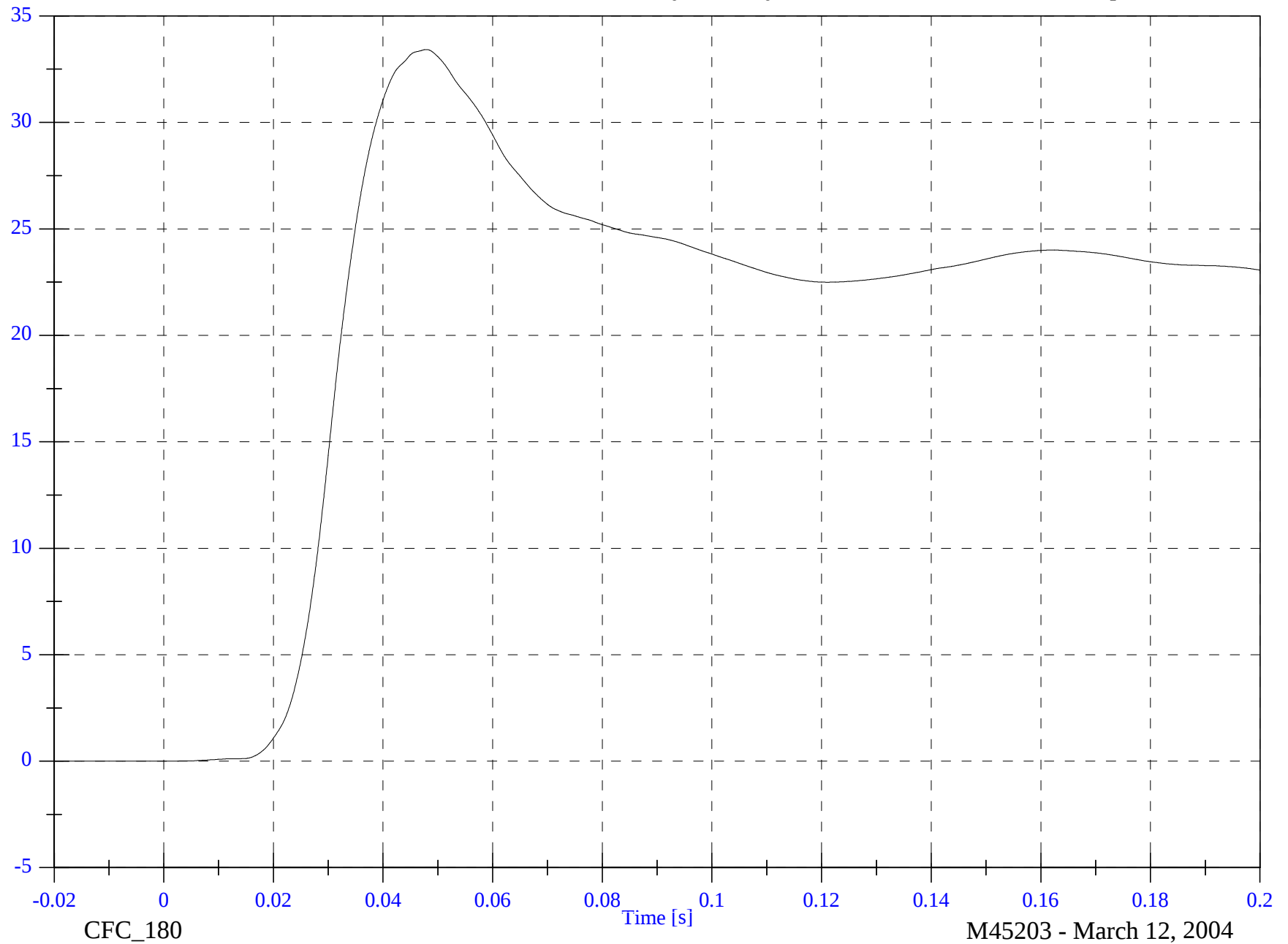


2004 SNCAP Test 3 2004 Infinity FX35/45

V2P1 Pelvic y Velocity

Max: 33.4 [kph] at 0.048 [s]

Min: -0.0 [kph] at -0.020 [s]



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8725-SNCAP-03

CFC_180

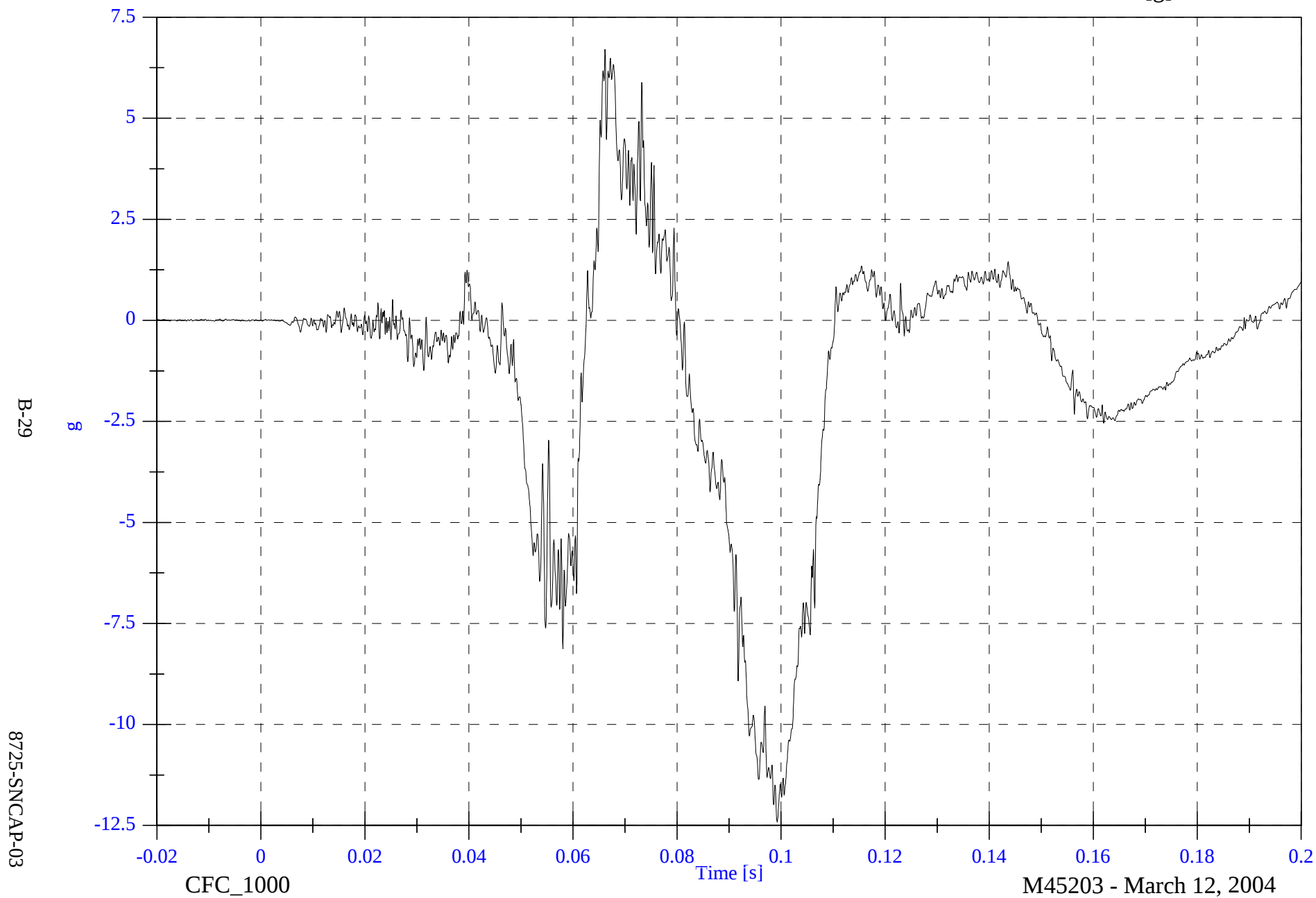
M45203 - March 12, 2004

2004 SNCAP Test 3 2004 Infinity FX35/45

Max: 6.7 [g] at 0.066 [s]

Min: -12.4 [g] at 0.099 [s]

V2P4 Head x

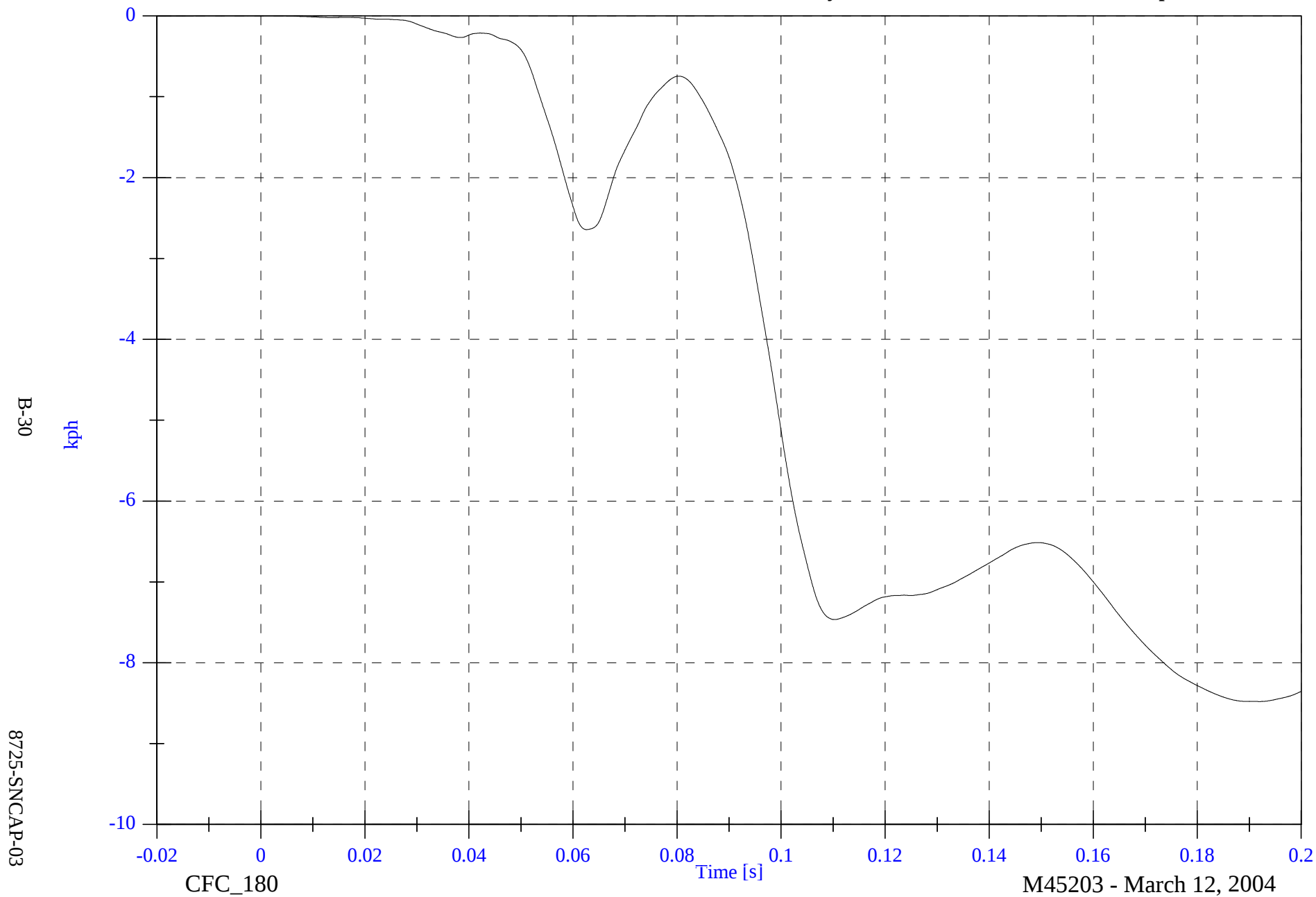


2004 SNCAP Test 3 2004 Infinity FX35/45

V2P4 Head x Velocity

Max: 0.0 [kph] at -0.004 [s]

Min: -8.5 [kph] at 0.192 [s]

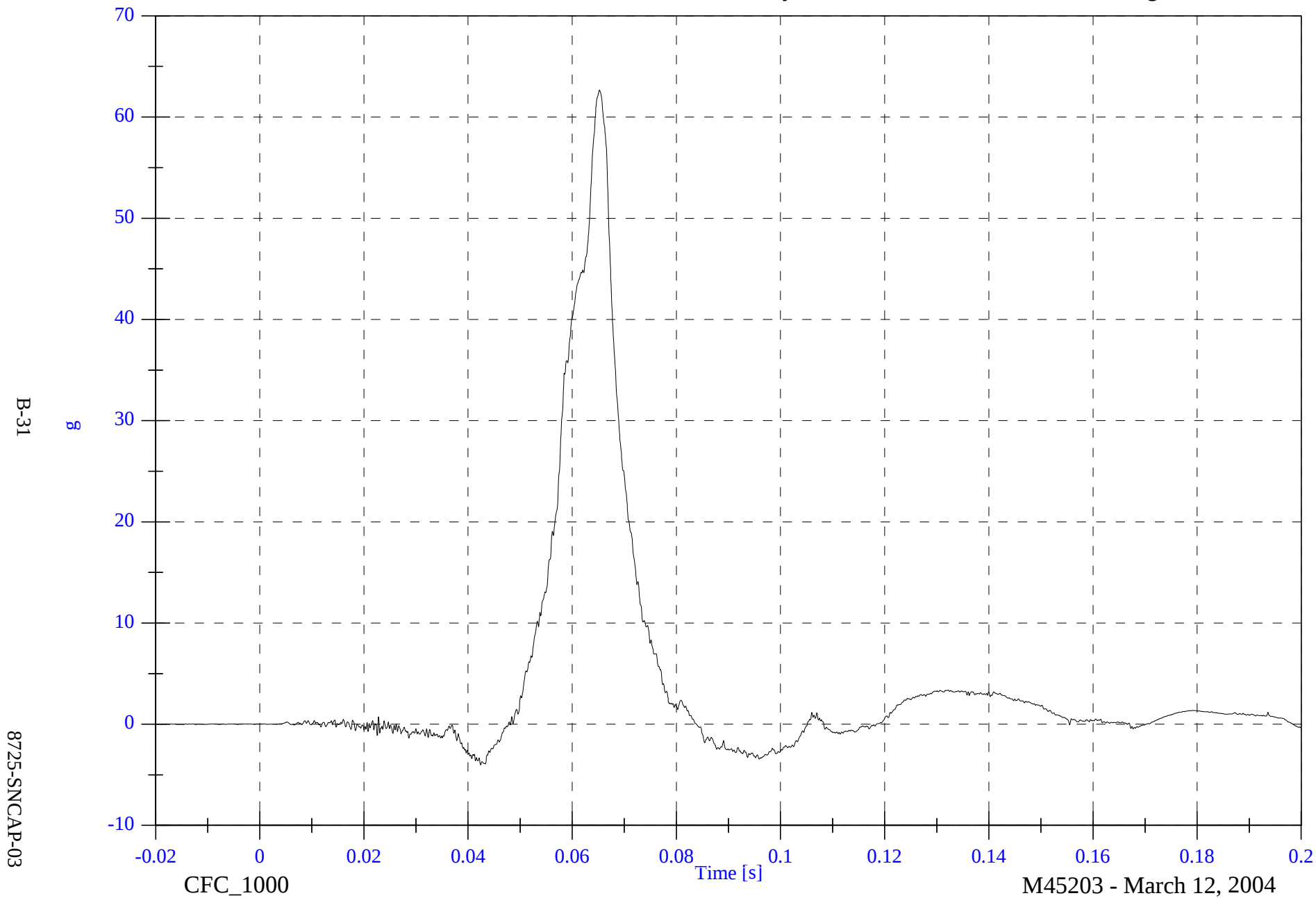


2004 SNCAP Test 3 2004 Infinity FX35/45

V2P4 Head y

Max: 62.7 [g] at 0.065 [s]

Min: -4.0 [g] at 0.042 [s]

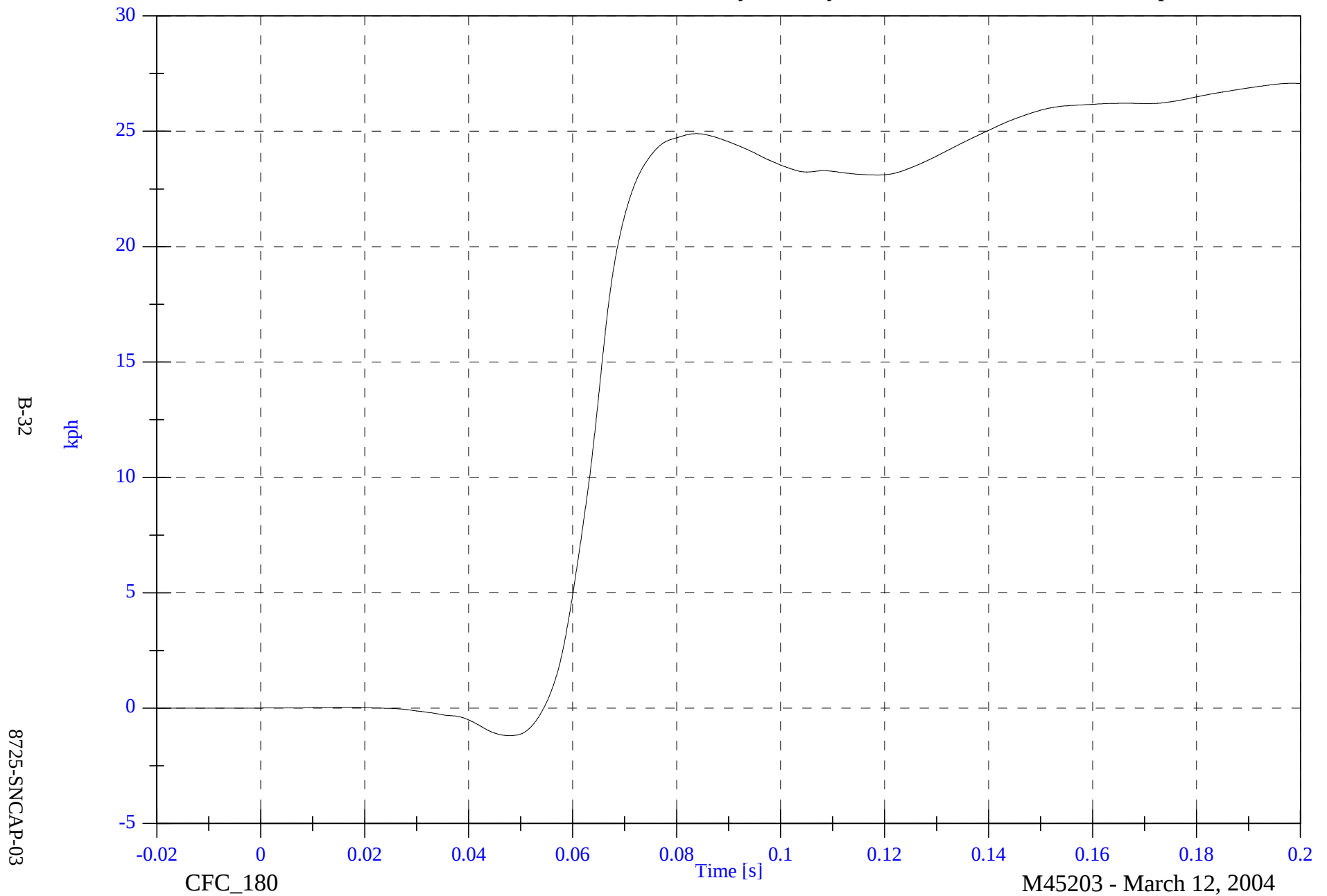


2004 SNCAP Test 3 2004 Infinity FX35/45

Max: 27.1 [kph] at 0.198 [s]

Min: -1.2 [kph] at 0.048 [s]

V2P4 Head y Velocity

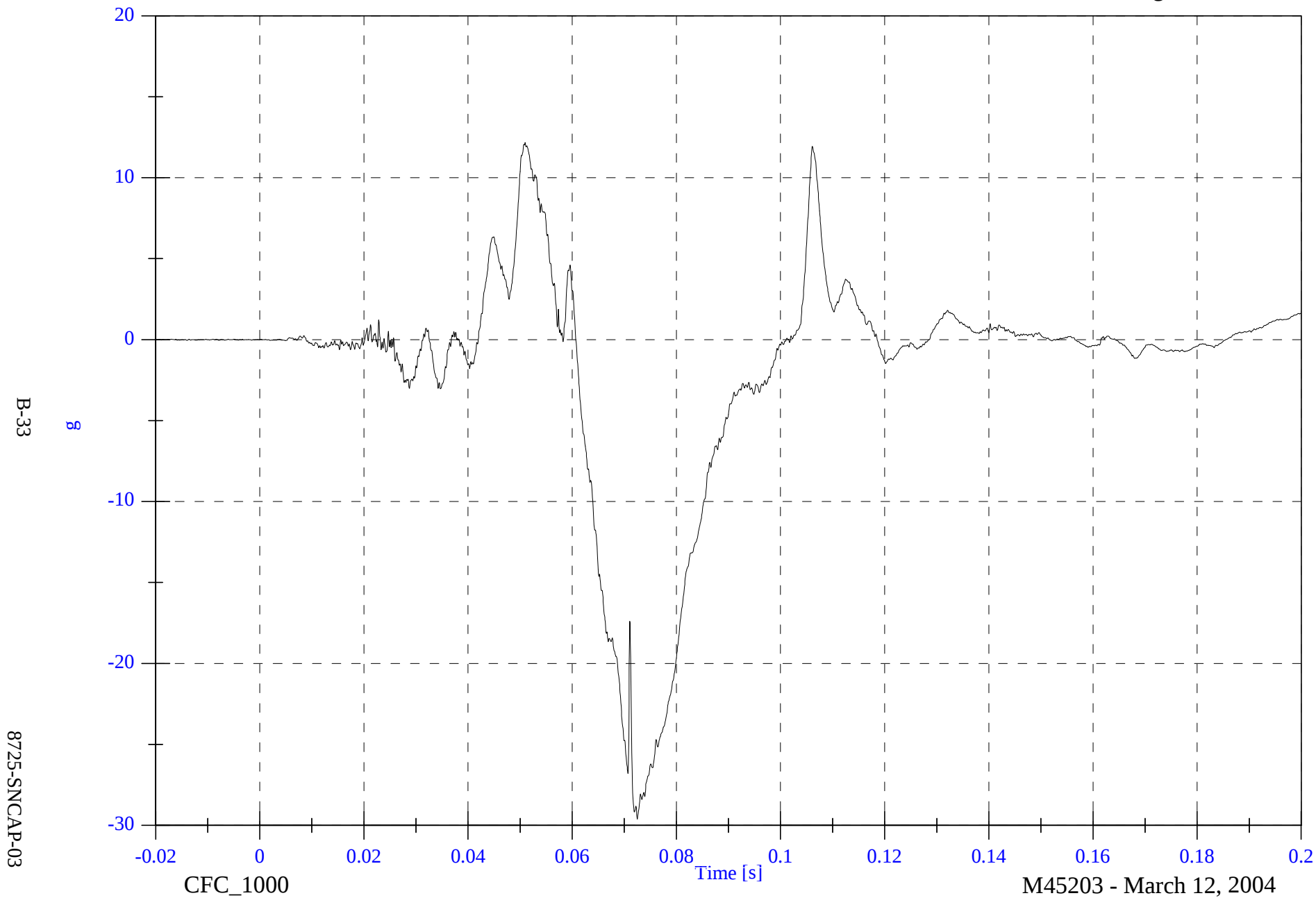


2004 SNCAP Test 3 2004 Infinity FX35/45

V2P4 Head z

Max: 12.2 [g] at 0.051 [s]

Min: -29.6 [g] at 0.072 [s]

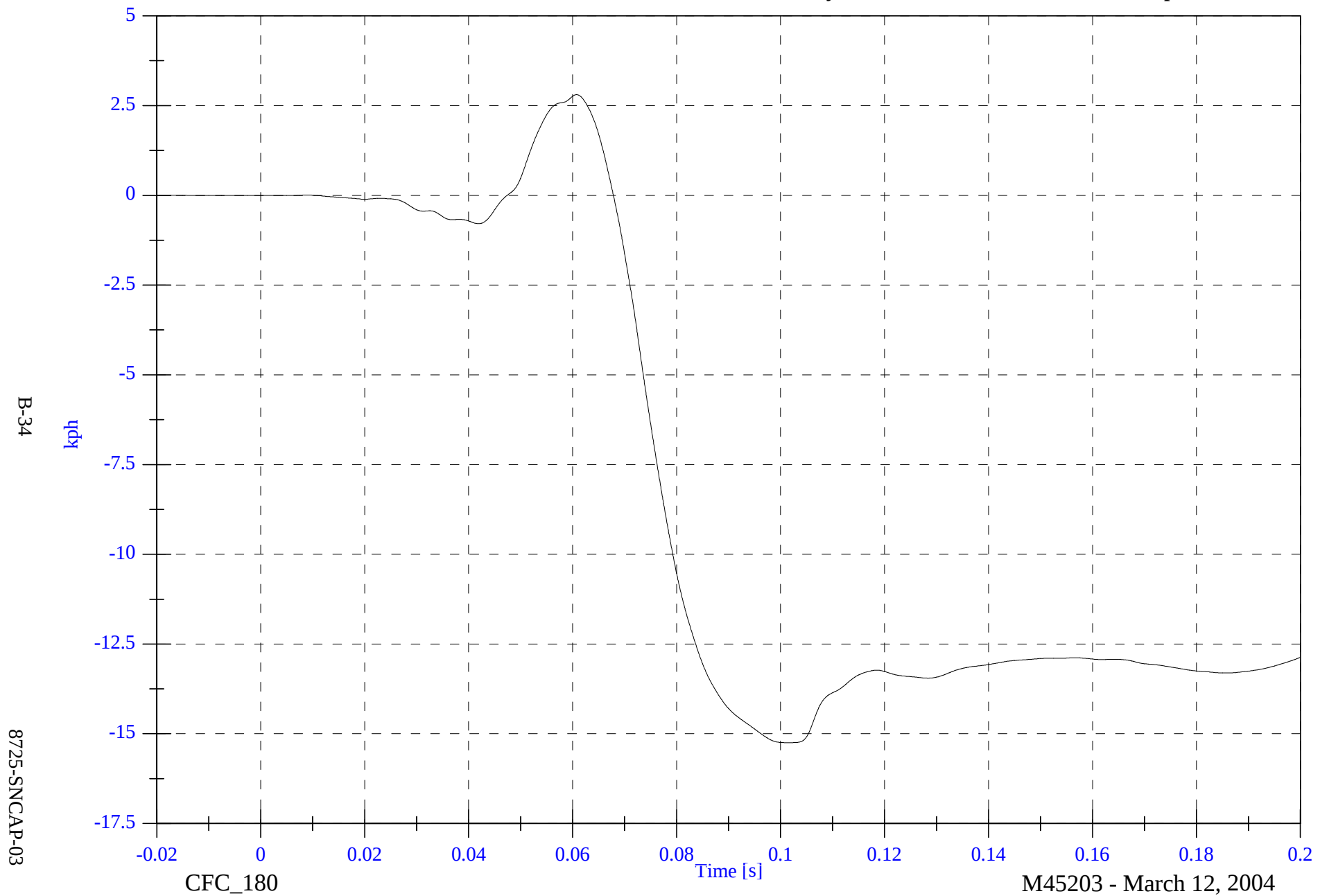


2004 SNCAP Test 3 2004 Infinity FX35/45

V2P4 Head z Velocity

Max: 2.8 [kph] at 0.061 [s]

Min: -15.2 [kph] at 0.101 [s]

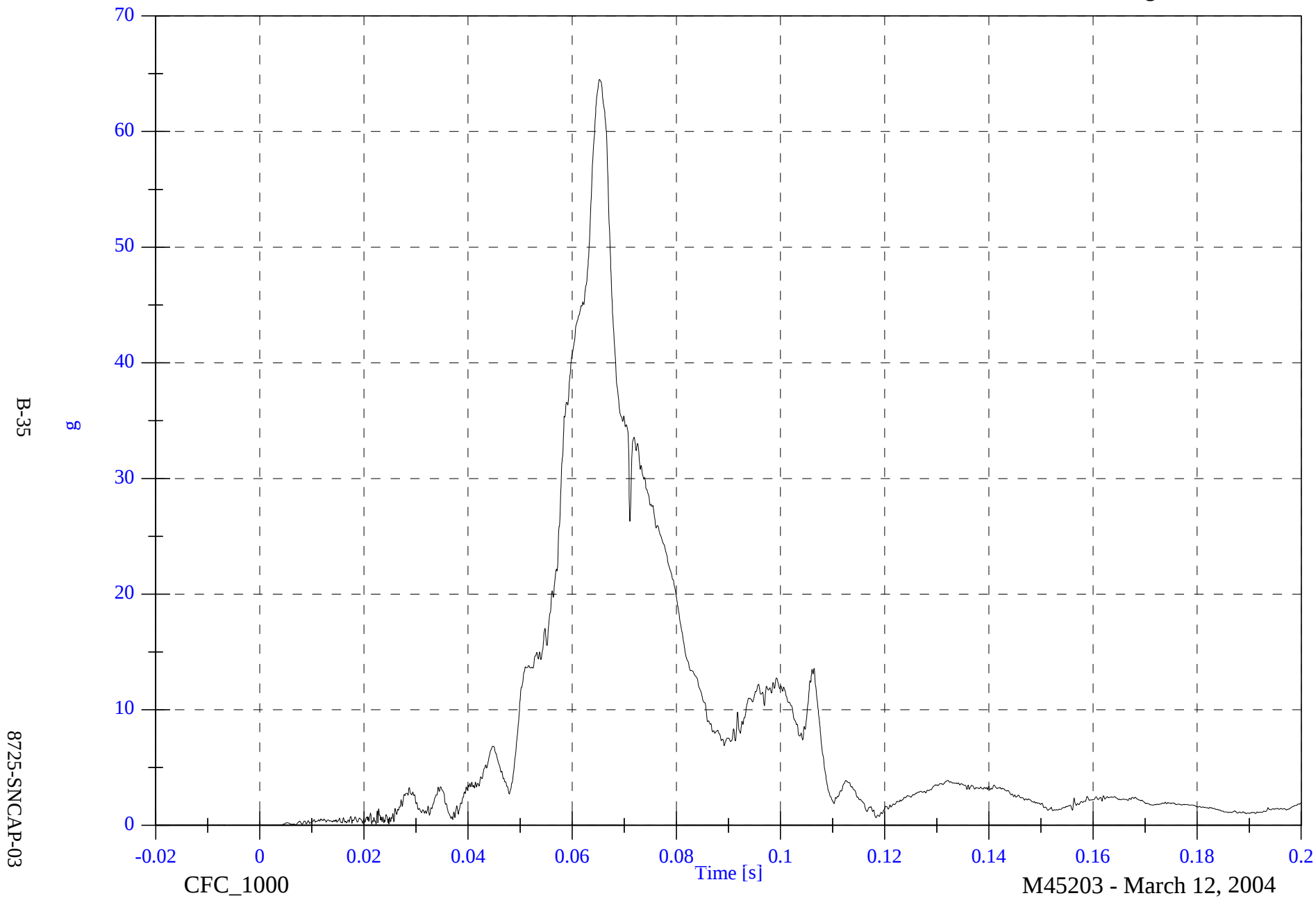


2004 SNCAP Test 3 2004 Infinity FX35/45

V2P4 Head Resultant

Max: 64.5 [g] at 0.065 [s]

Min: 0.0 [g] at -0.010 [s]

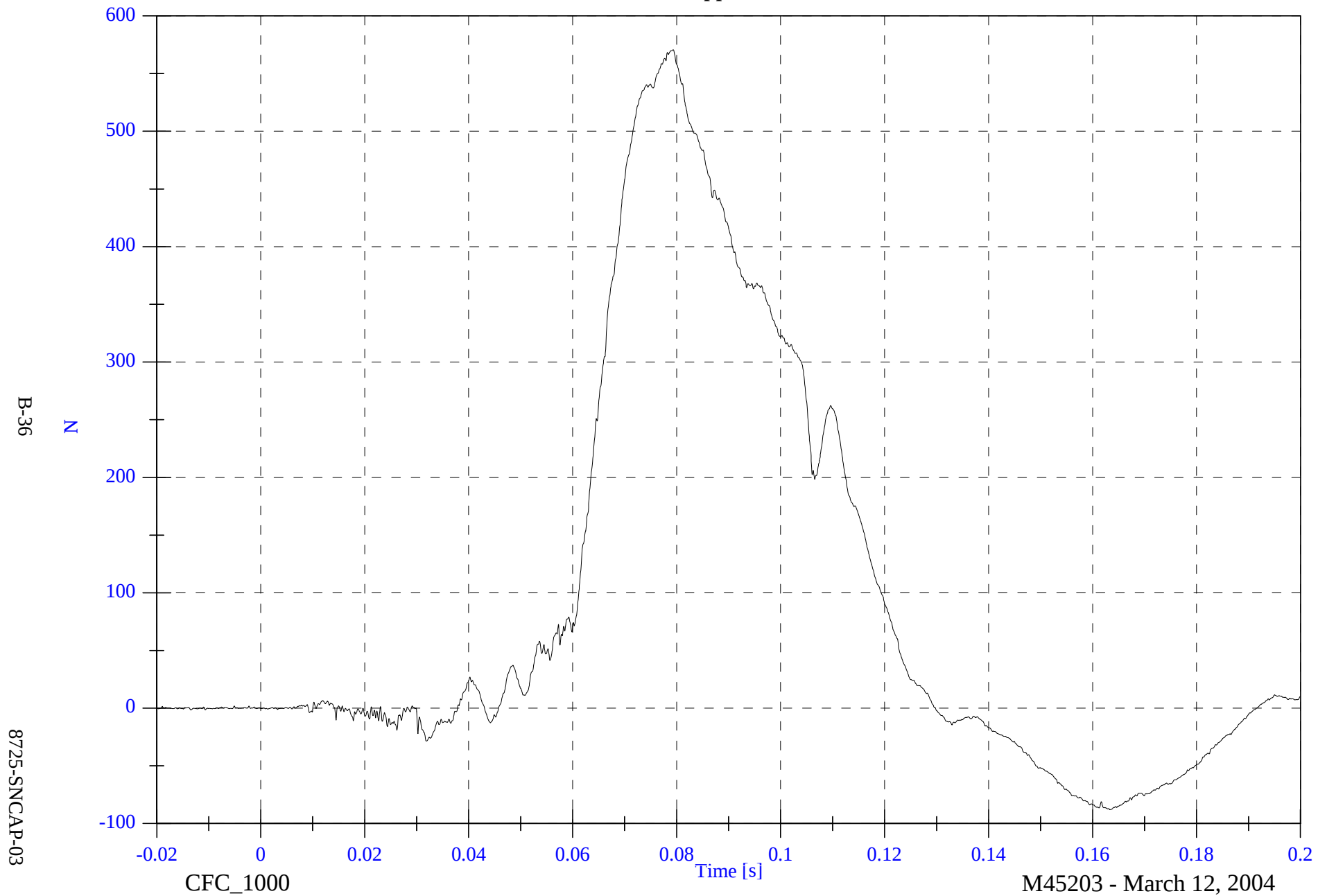


2004 SNCAP Test 3 2004 Infinity FX35/45

Max: 570.6 [N] at 0.079 [s]

Min: -88.0 [N] at 0.163 [s]

V2P4 Upper Neck Fx

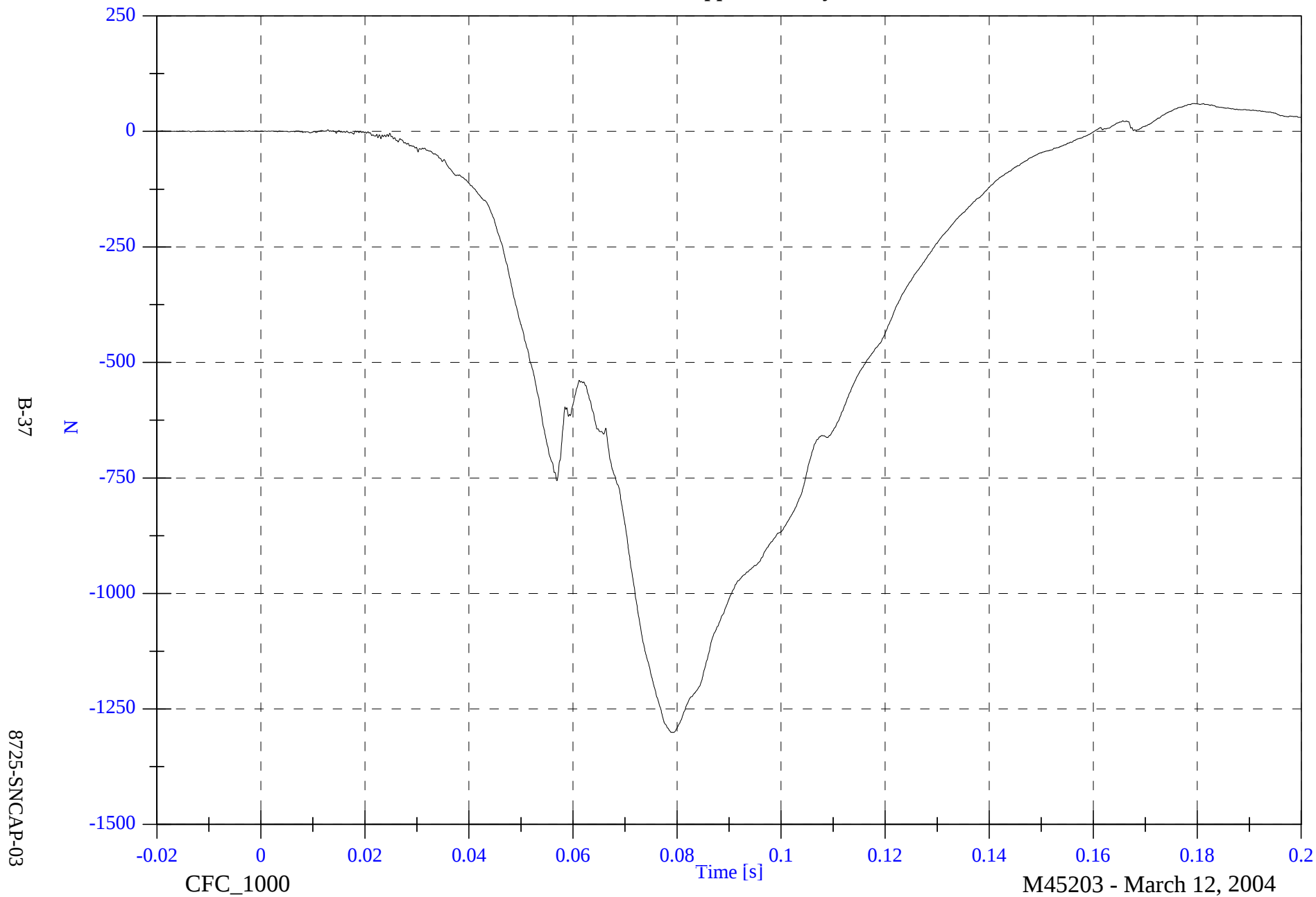


2004 SNCAP Test 3 2004 Infinity FX35/45

V2P4 Upper Neck Fy

Max: 60.2 [N] at 0.179 [s]

Min: -1300.8 [N] at 0.079 [s]



2004 SNCAP Test 3 2004 Infinity FX35/45

V2P4 Upper Neck Fz

Max: 380.4 [N] at 0.051 [s]

Min: -1261.1 [N] at 0.074 [s]



2004 SNCAP Test 3 2004 Infinity FX35/45

V2P4 Upper Neck F Resultant

Max: 1850.9 [N] at 0.078 [s]

Min: 0.1 [N] at -0.002 [s]

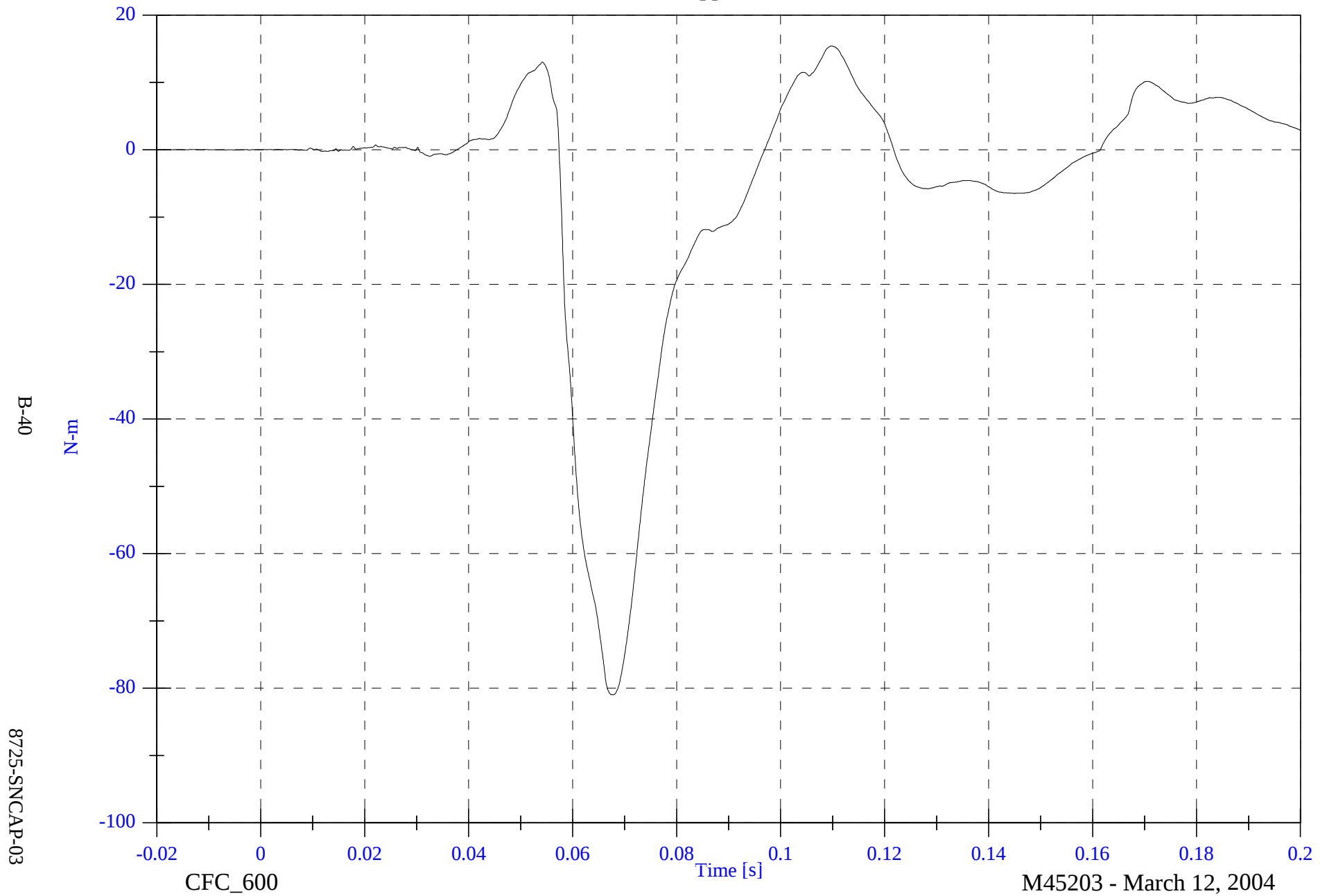


2004 SNCAP Test 3 2004 Infinity FX35/45

V2P4 Upper Neck Mx

Max: 15.4 [N-m] at 0.110 [s]

Min: -81.0 [N-m] at 0.068 [s]

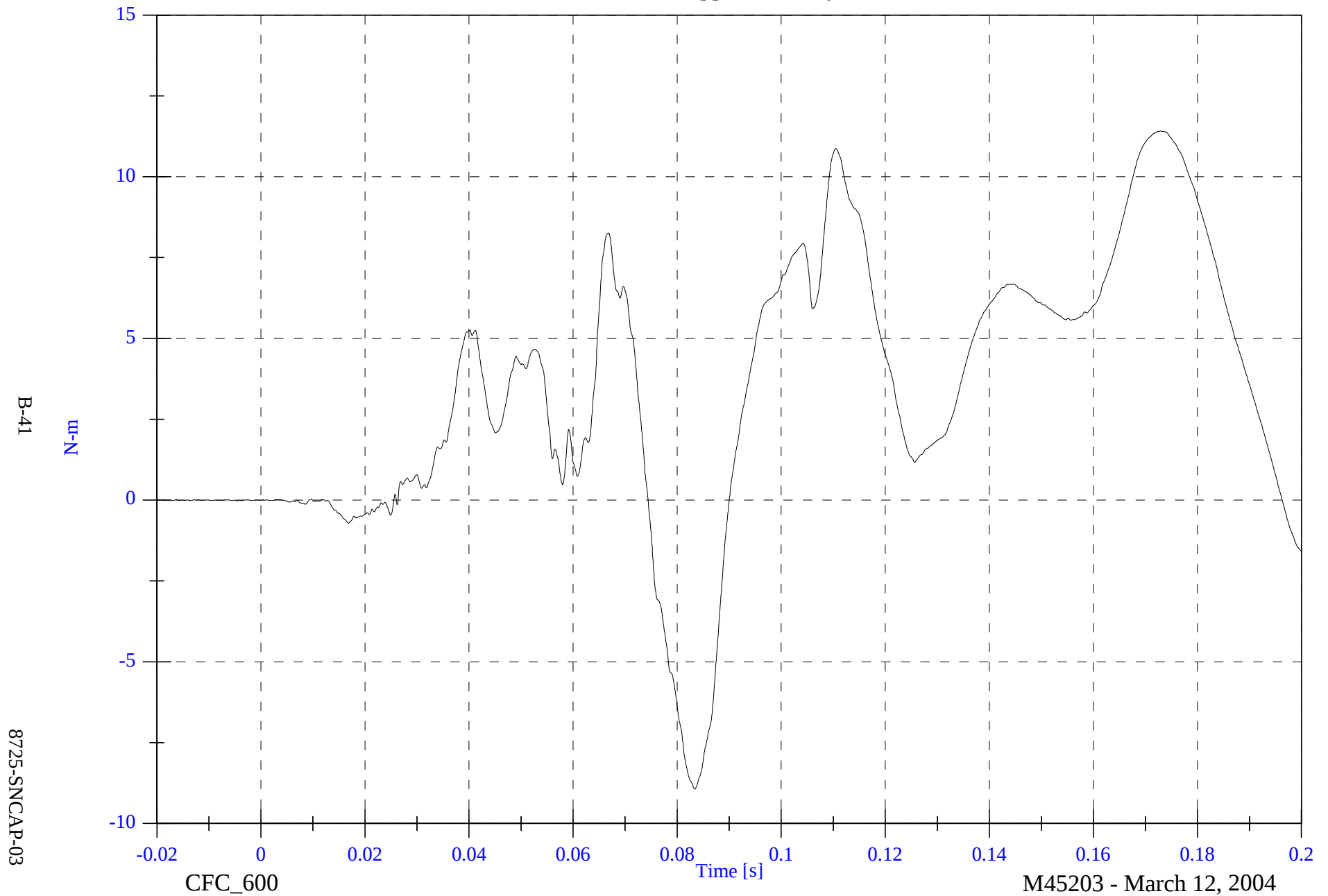


2004 SNCAP Test 3 2004 Infinity FX35/45

V2P4 Upper Neck My

Max: 11.4 [N-m] at 0.173 [s]

Min: -8.9 [N-m] at 0.083 [s]

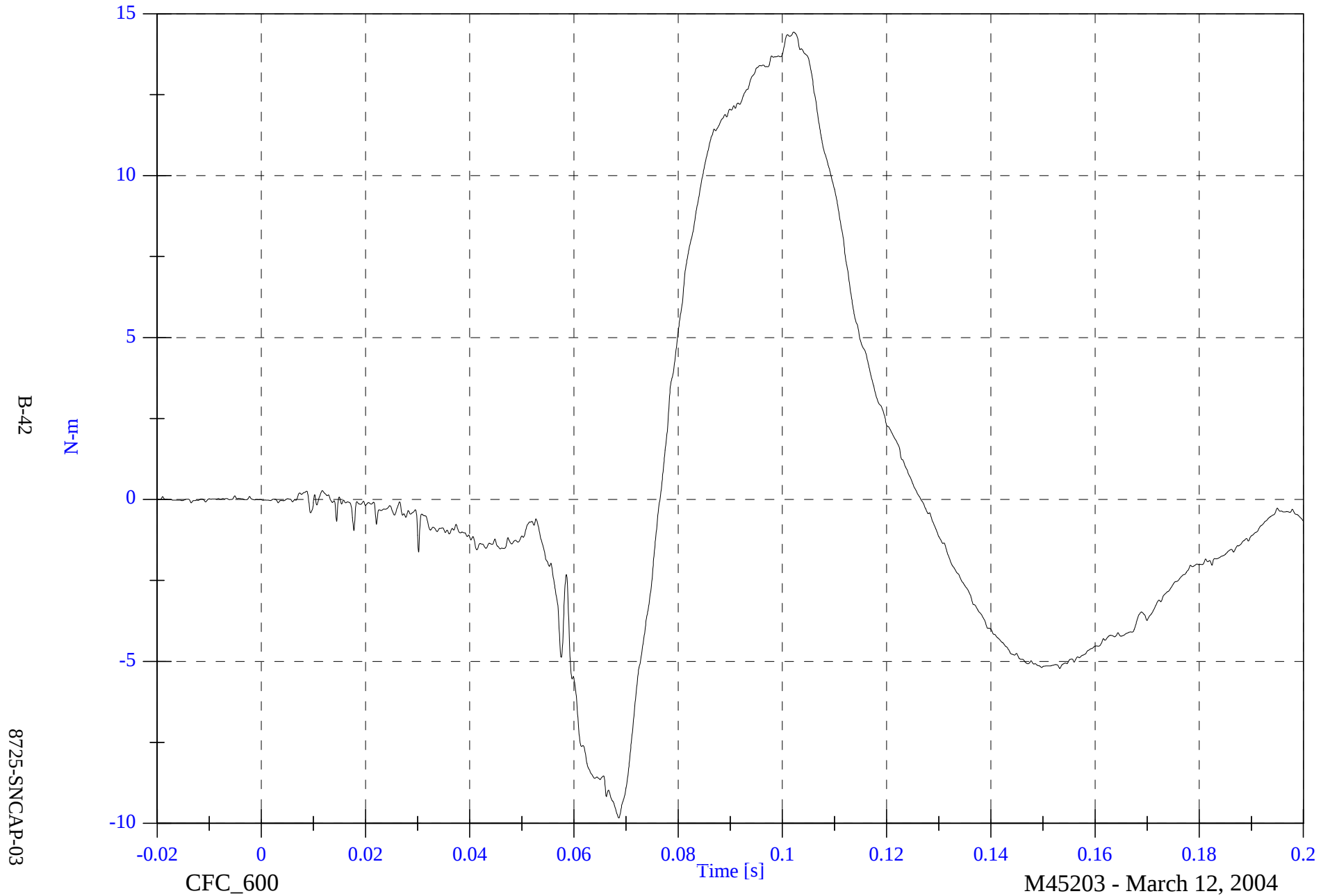


2004 SNCAP Test 3 2004 Infinity FX35/45

Max: 14.4 [N-m] at 0.102 [s]

V2P4 Upper Neck Mz

Min: -9.8 [N-m] at 0.069 [s]

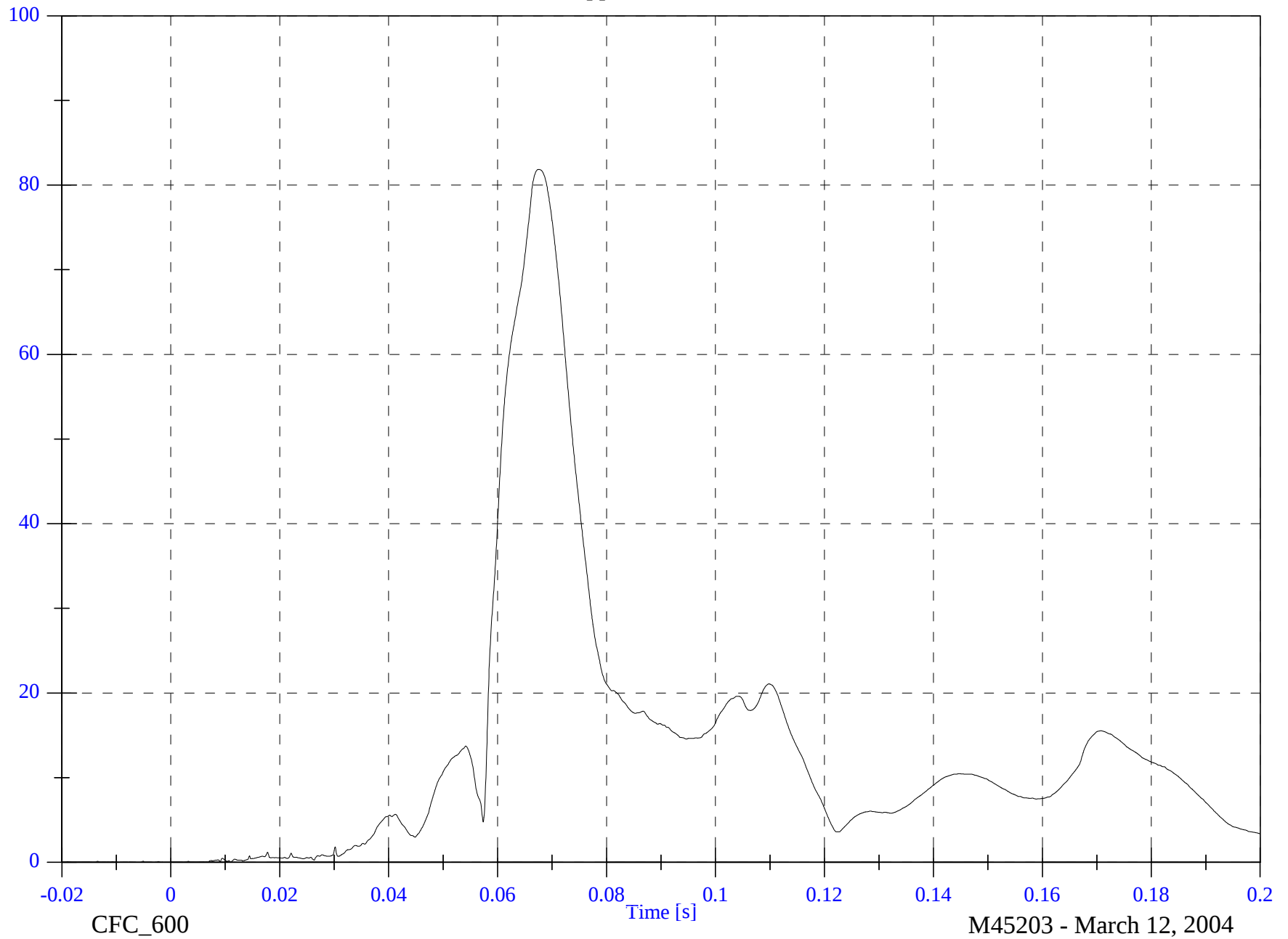


2004 SNCAP Test 3 2004 Infinity FX35/45

V2P4 Upper Neck M Resultant

Max: 81.8 [N-m] at 0.068 [s]

Min: 0.0 [N-m] at -0.001 [s]



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8725-SNCAP-03

CFC_600

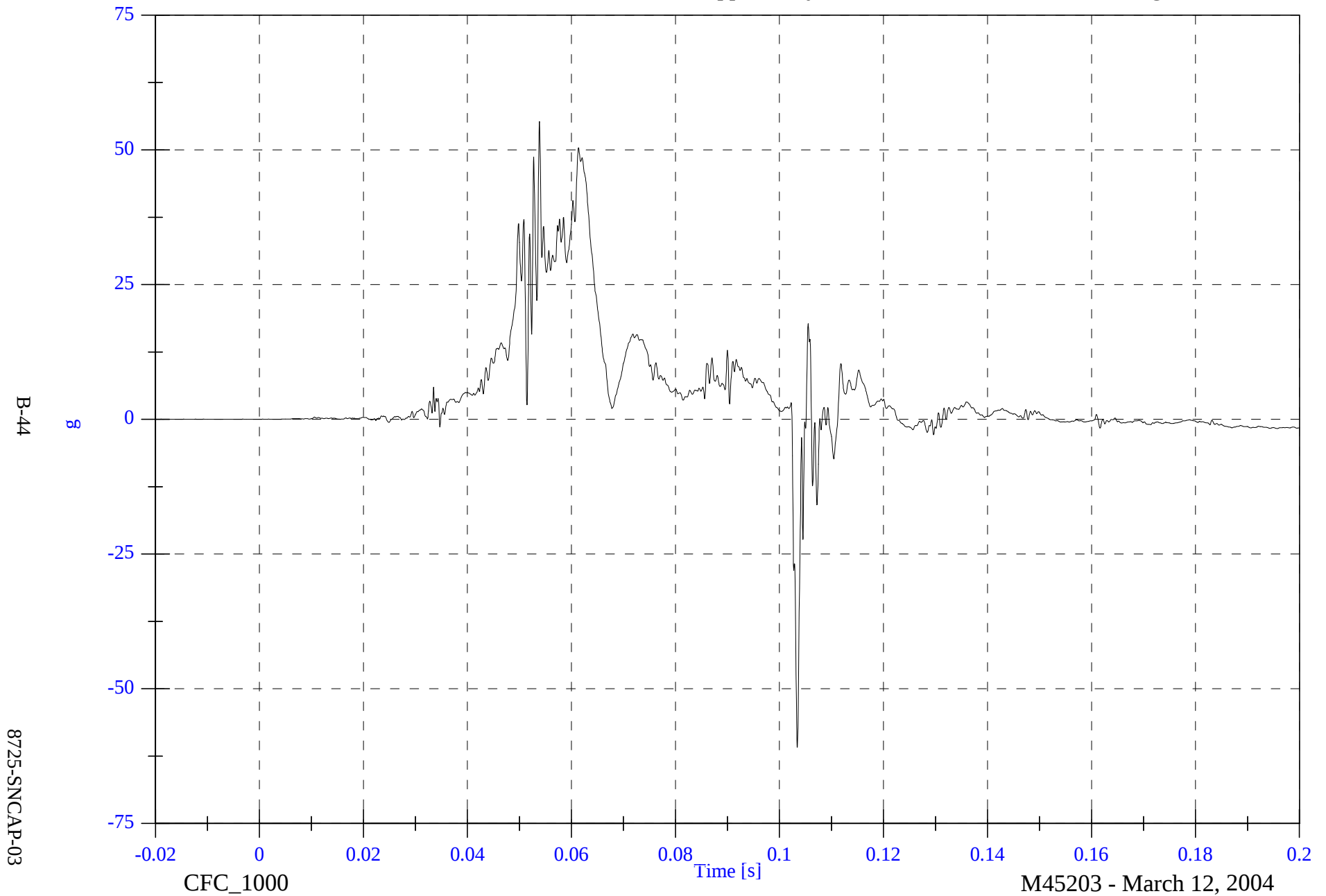
M45203 - March 12, 2004

2004 SNCAP Test 3 2004 Infinity FX35/45

V2P4 Upper Rib y

Max: 55.3 [g] at 0.054 [s]

Min: -60.9 [g] at 0.103 [s]

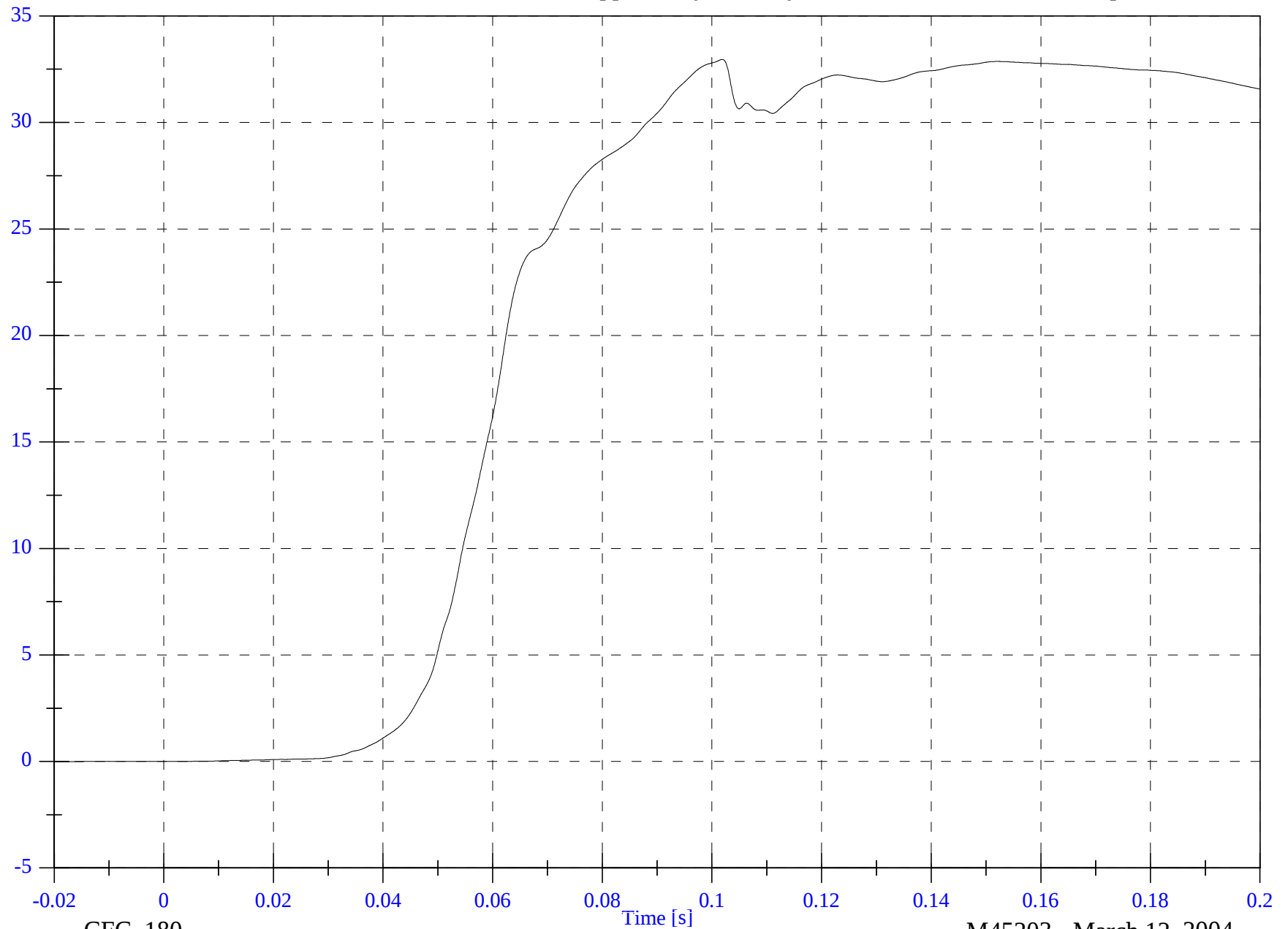


2004 SNCAP Test 3 2004 Infinity FX35/45

V2P4 Upper Rib y Velocity

Max: 33.0 [kph] at 0.102 [s]

Min: -0.0 [kph] at -0.020 [s]



B-45

8725-SNCAP-03

CFC_180

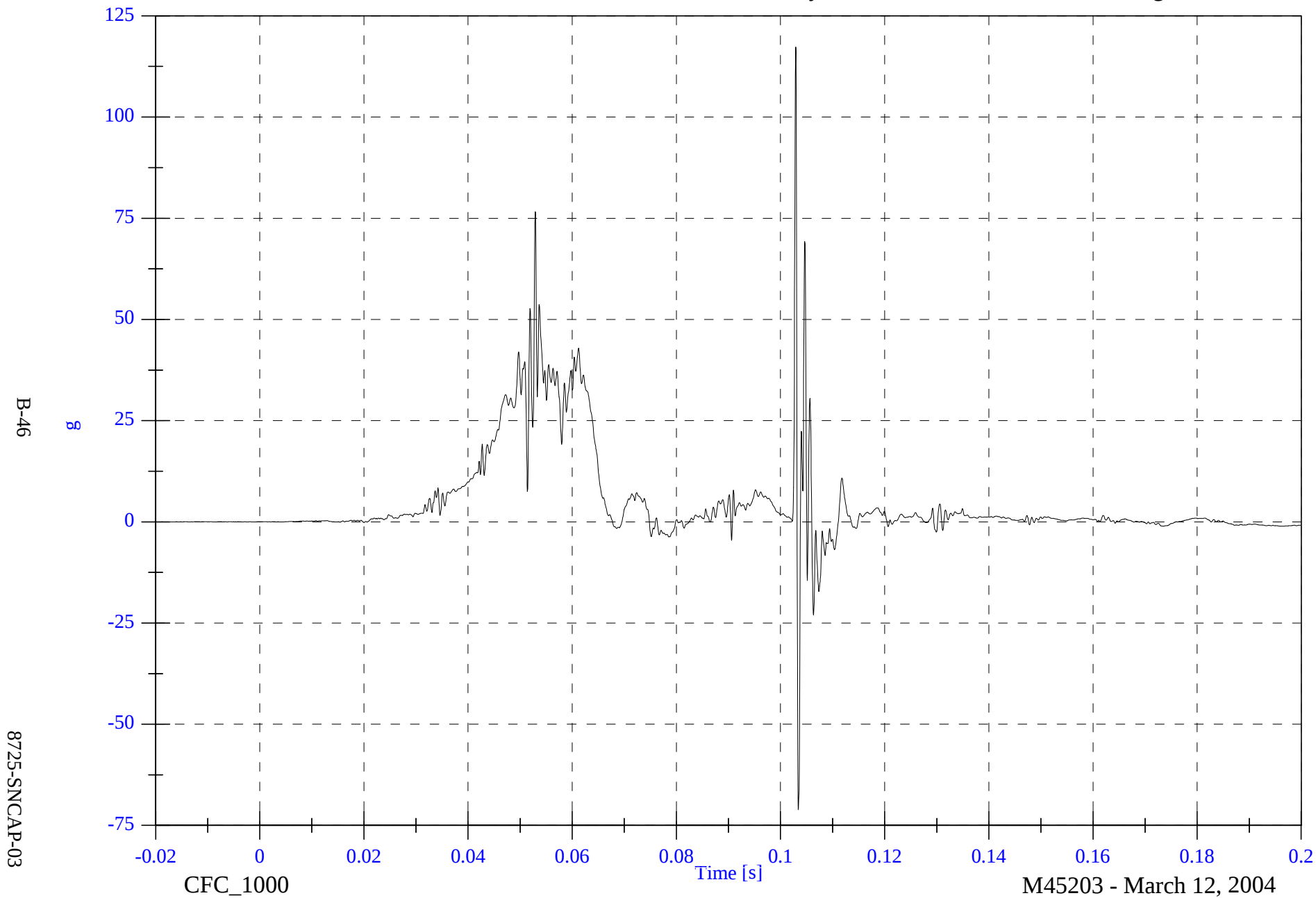
M45203 - March 12, 2004

2004 SNCAP Test 3 2004 Infinity FX35/45

V2P4 Lower Rib y

Max: 117.3 [g] at 0.103 [s]

Min: -71.1 [g] at 0.103 [s]

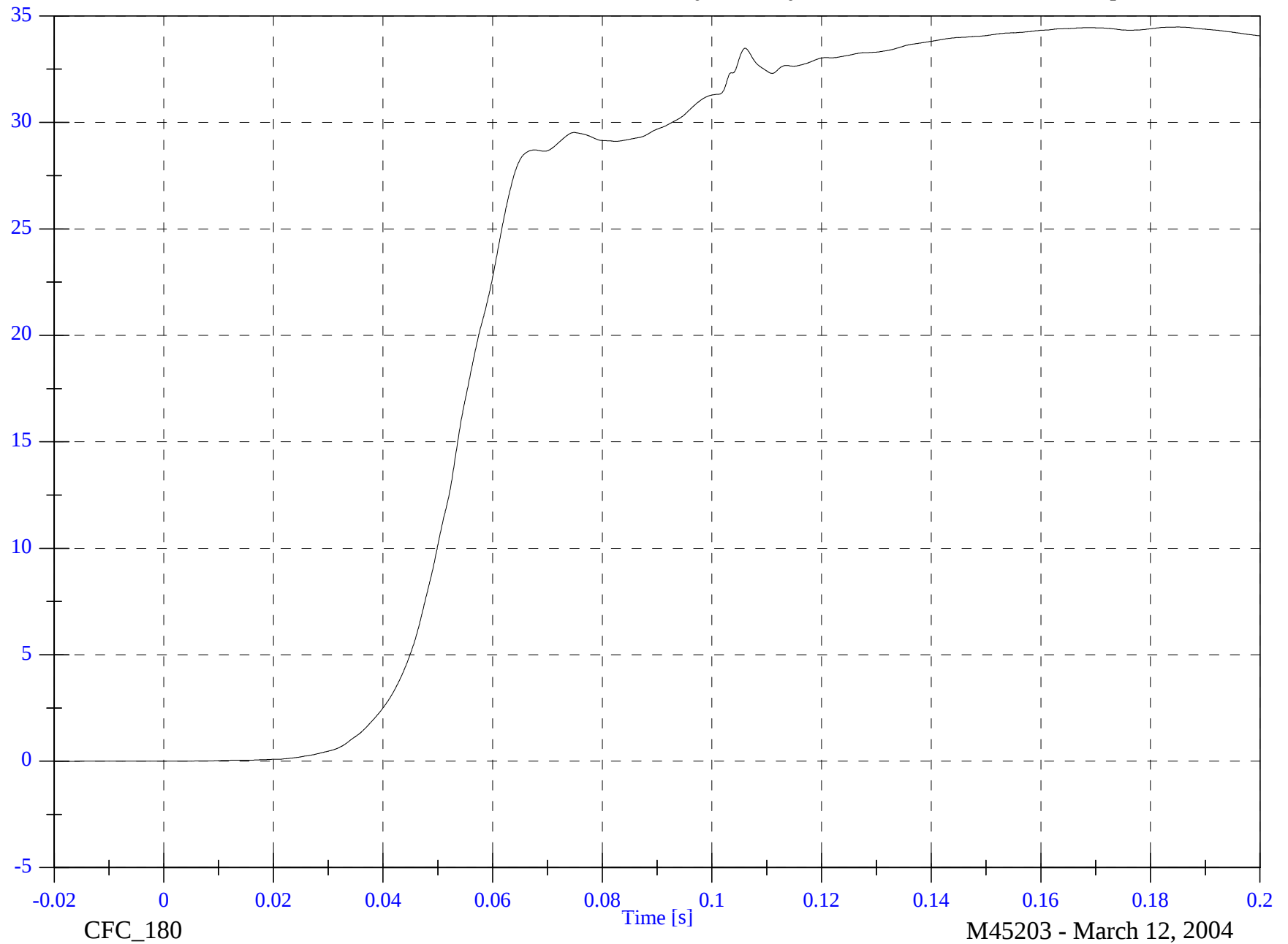


2004 SNCAP Test 3 2004 Infinity FX35/45

V2P4 Lower Rib y Velocity

Max: 34.5 [kph] at 0.185 [s]

Min: -0.0 [kph] at -0.020 [s]



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8725-SNCAP-03

CFC_180

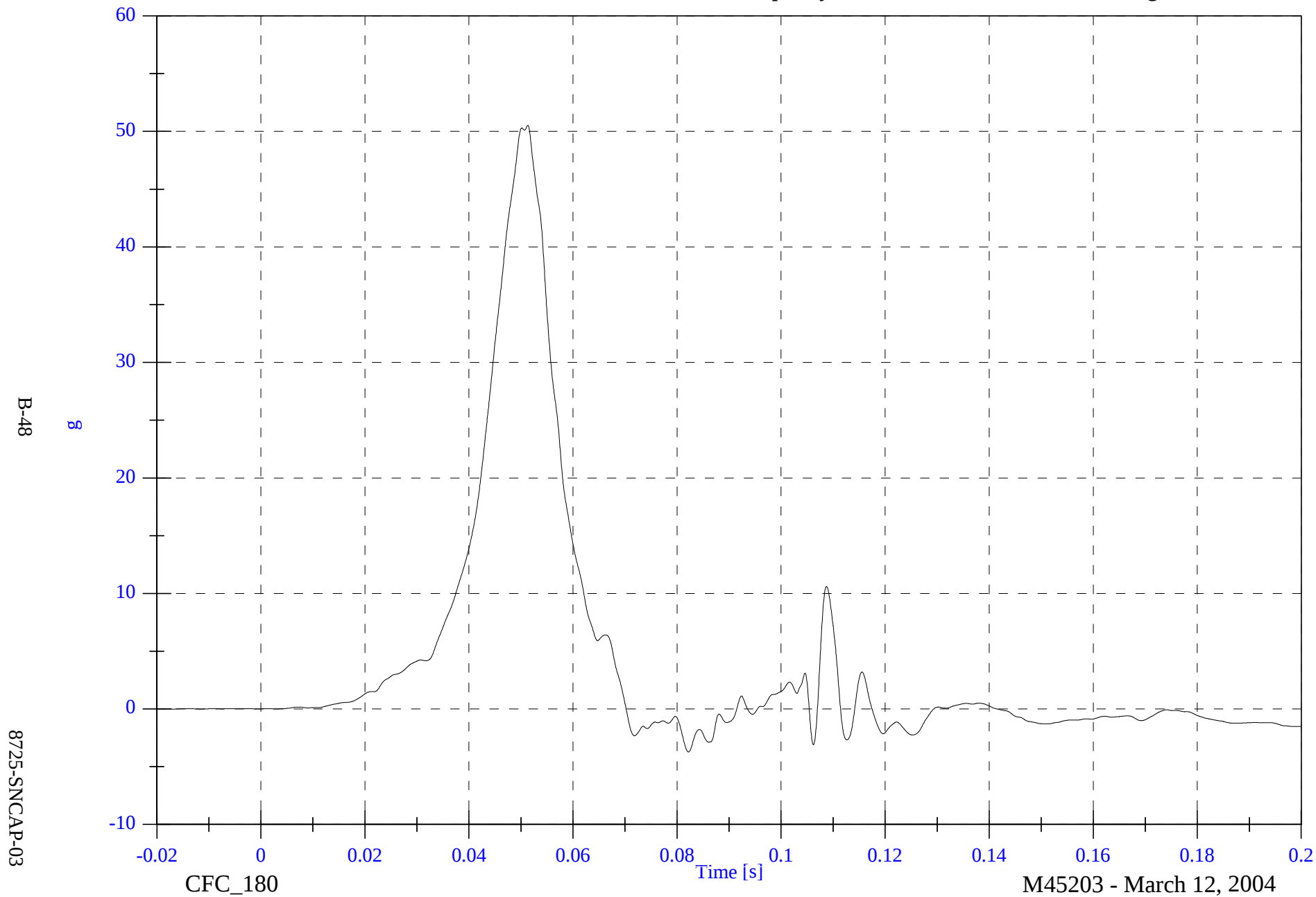
M45203 - March 12, 2004

2004 SNCAP Test 3 2004 Infinity FX35/45

V2P4 Lower Spine y

Max: 50.5 [g] at 0.051 [s]

Min: -3.7 [g] at 0.082 [s]

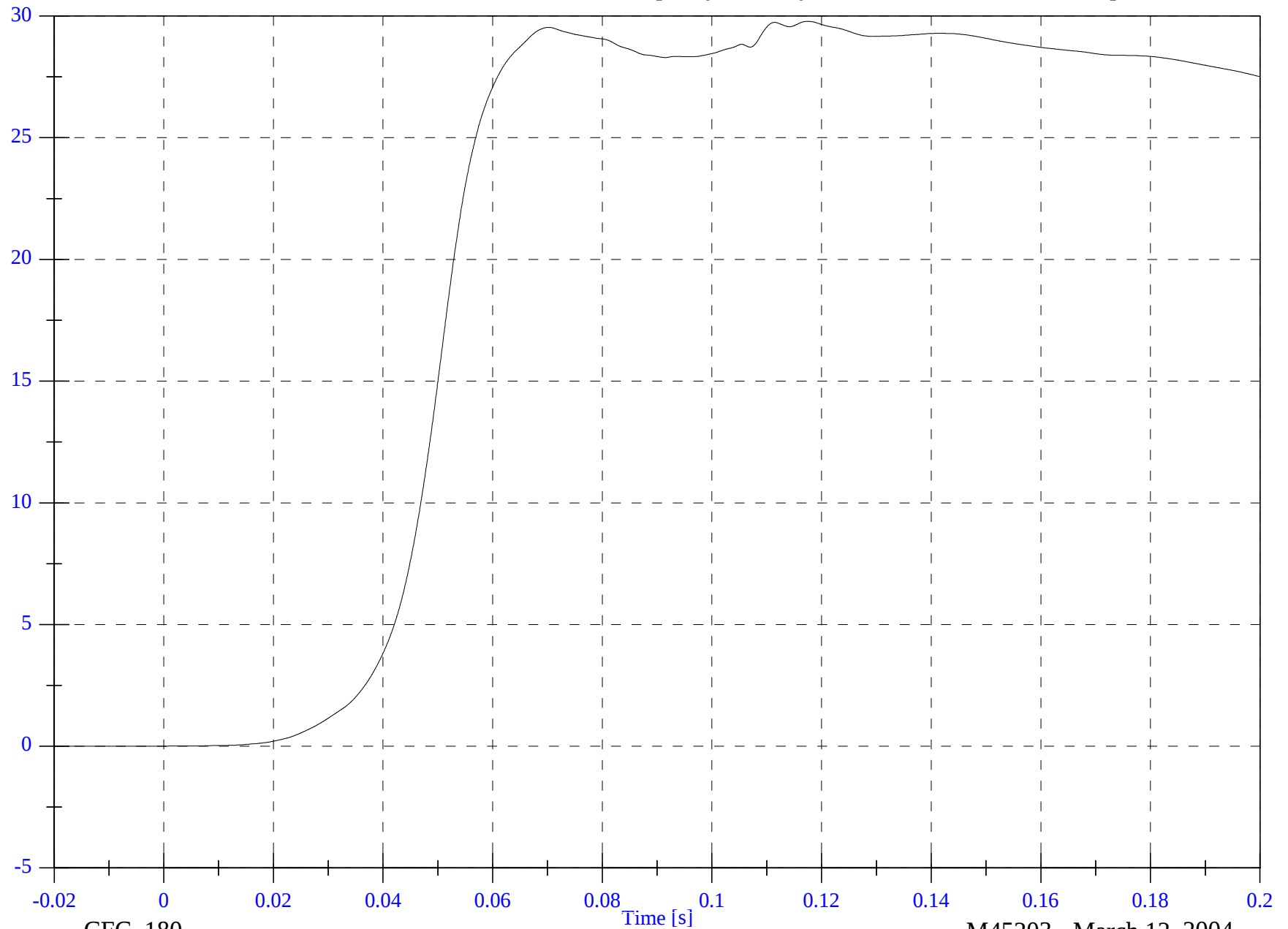


2004 SNCAP Test 3 2004 Infinity FX35/45

Max: 29.8 [kph] at 0.117 [s]

V2P4 Lower Spine y Velocity

Min: -0.0 [kph] at -0.020 [s]



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8725-SNCAP-03

CFC_180

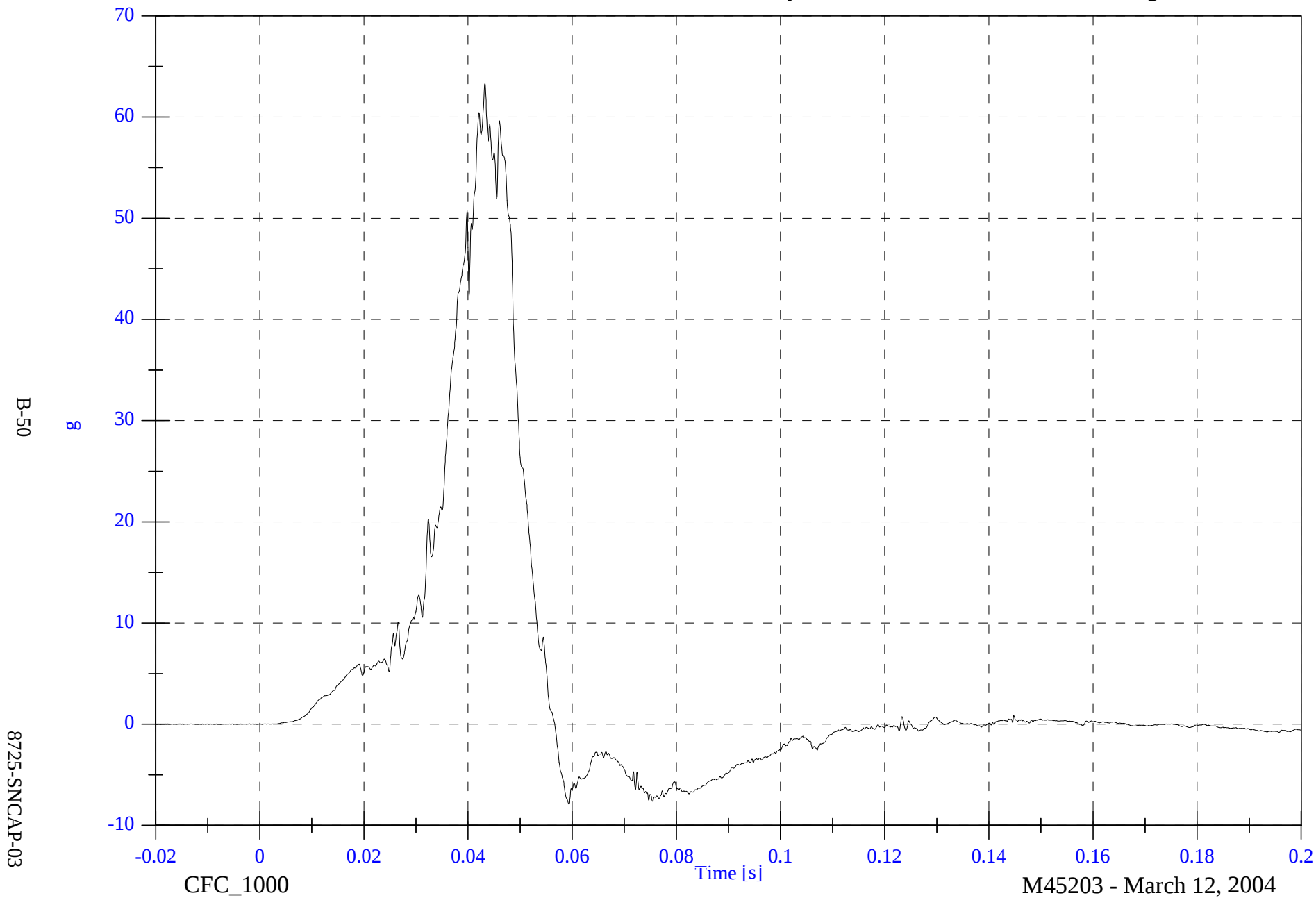
M45203 - March 12, 2004

2004 SNCAP Test 3 2004 Infinity FX35/45

V2P4 Pelvic y

Max: 63.3 [g] at 0.043 [s]

Min: -7.9 [g] at 0.059 [s]

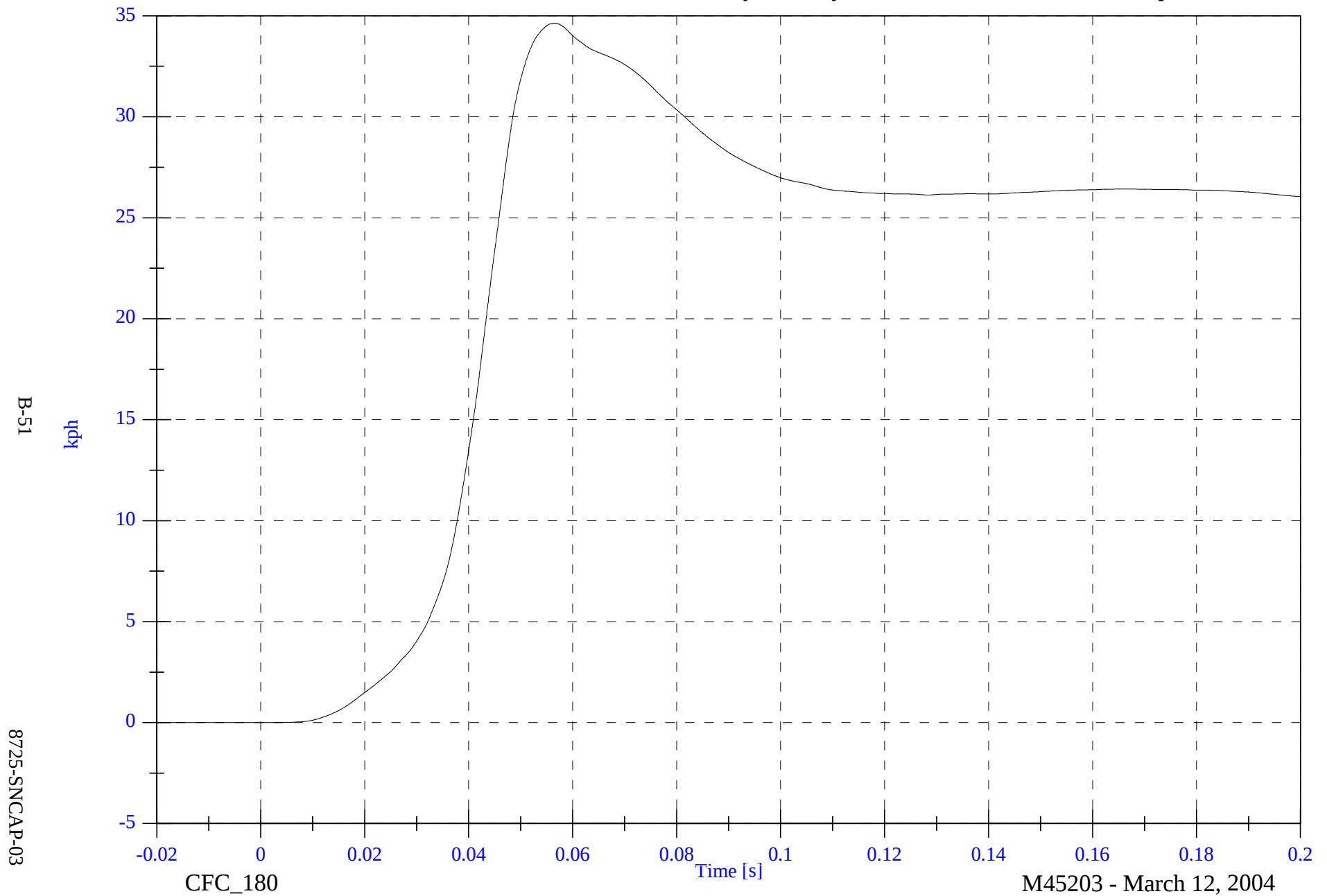


2004 SNCAP Test 3 2004 Infinity FX35/45

Max: 34.6 [kph] at 0.056 [s]

Min: -0.0 [kph] at -0.020 [s]

V2P4 Pelvic y Velocity

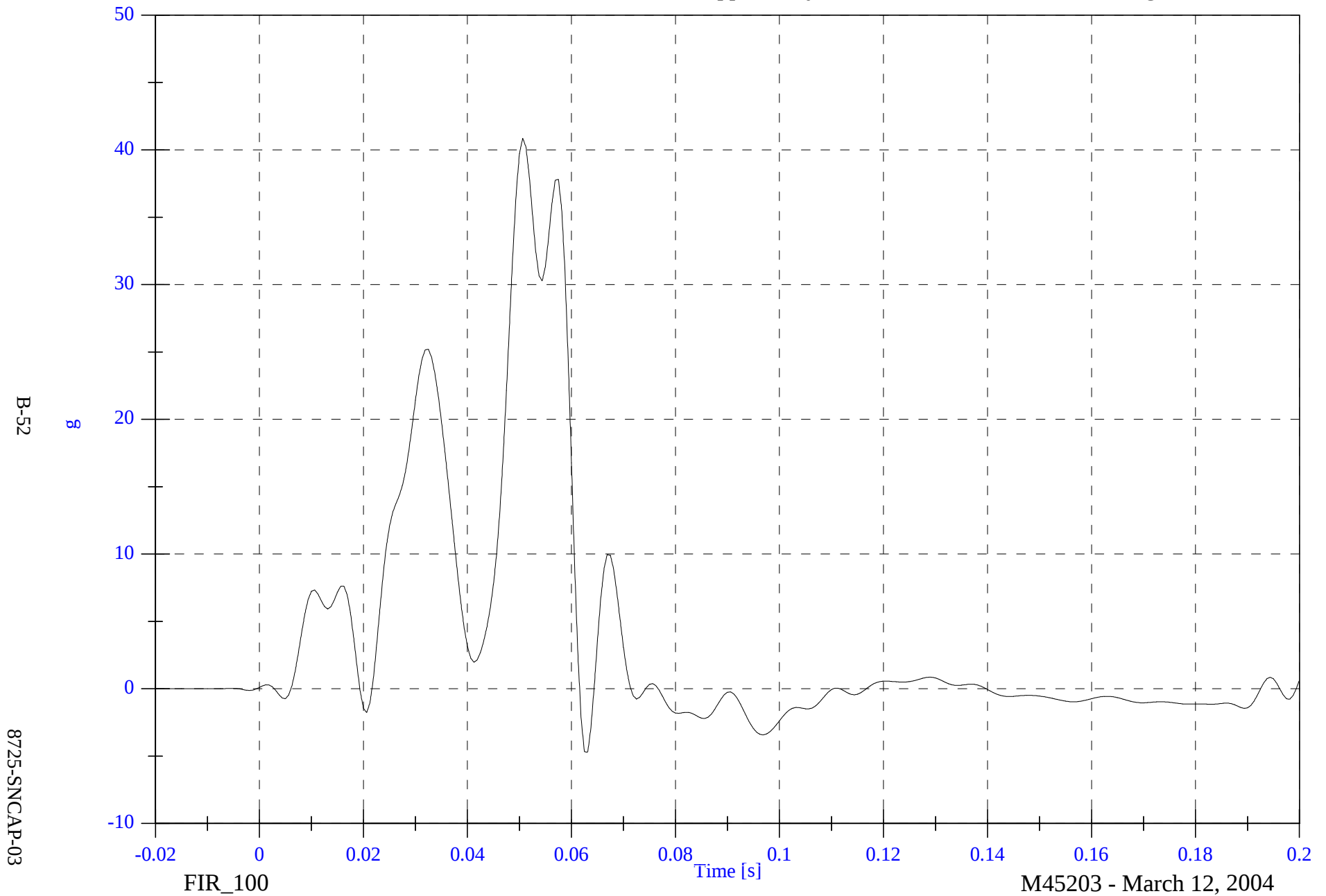


2004 SNCAP Test 3 2004 Infinity FX35/45

V2P1 Upper Rib y

Max: 40.8 [g] at 0.051 [s]

Min: -4.7 [g] at 0.063 [s]

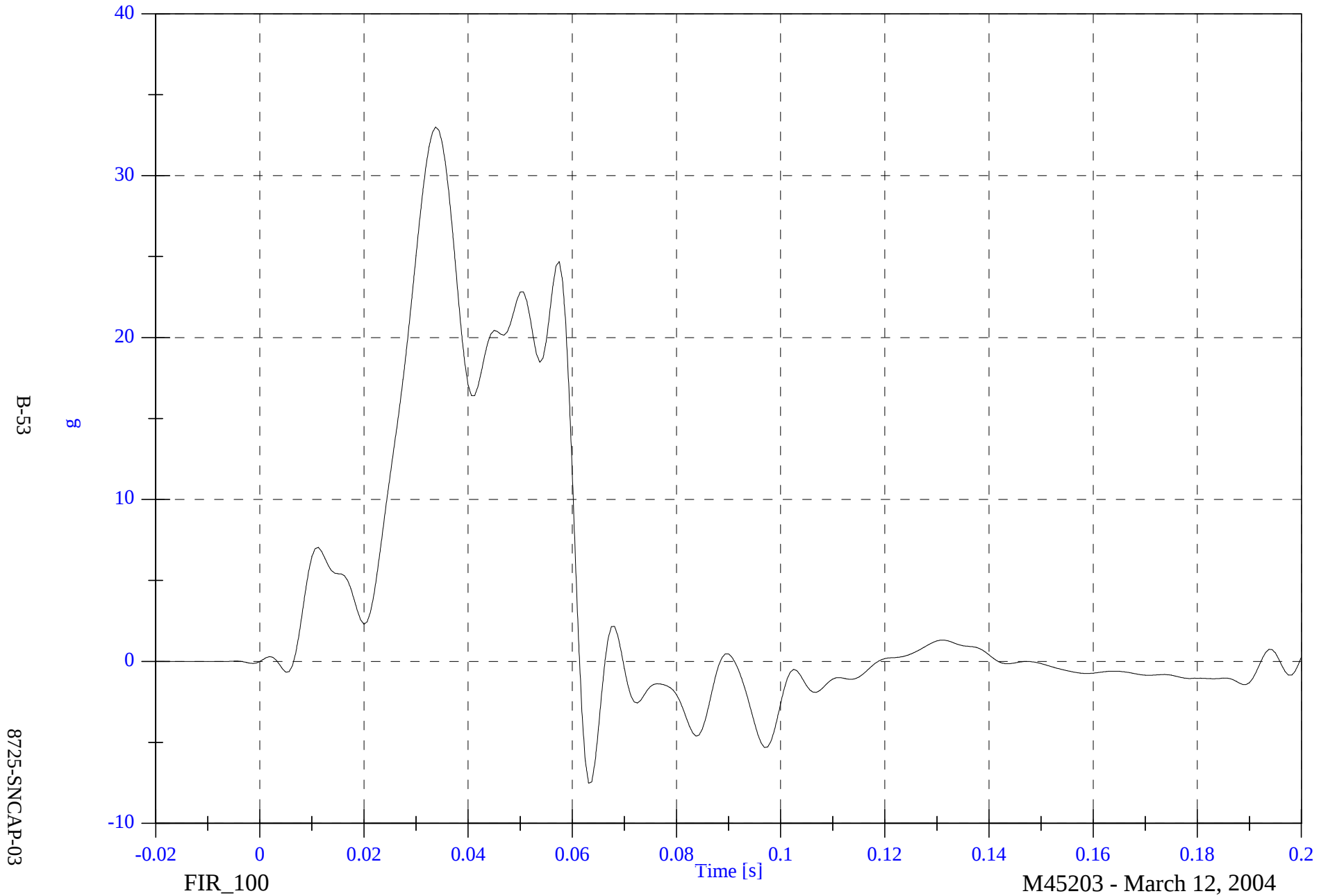


2004 SNCAP Test 3 2004 Infinity FX35/45

V2P1 Lower Rib y

Max: 33.0 [g] at 0.034 [s]

Min: -7.5 [g] at 0.063 [s]

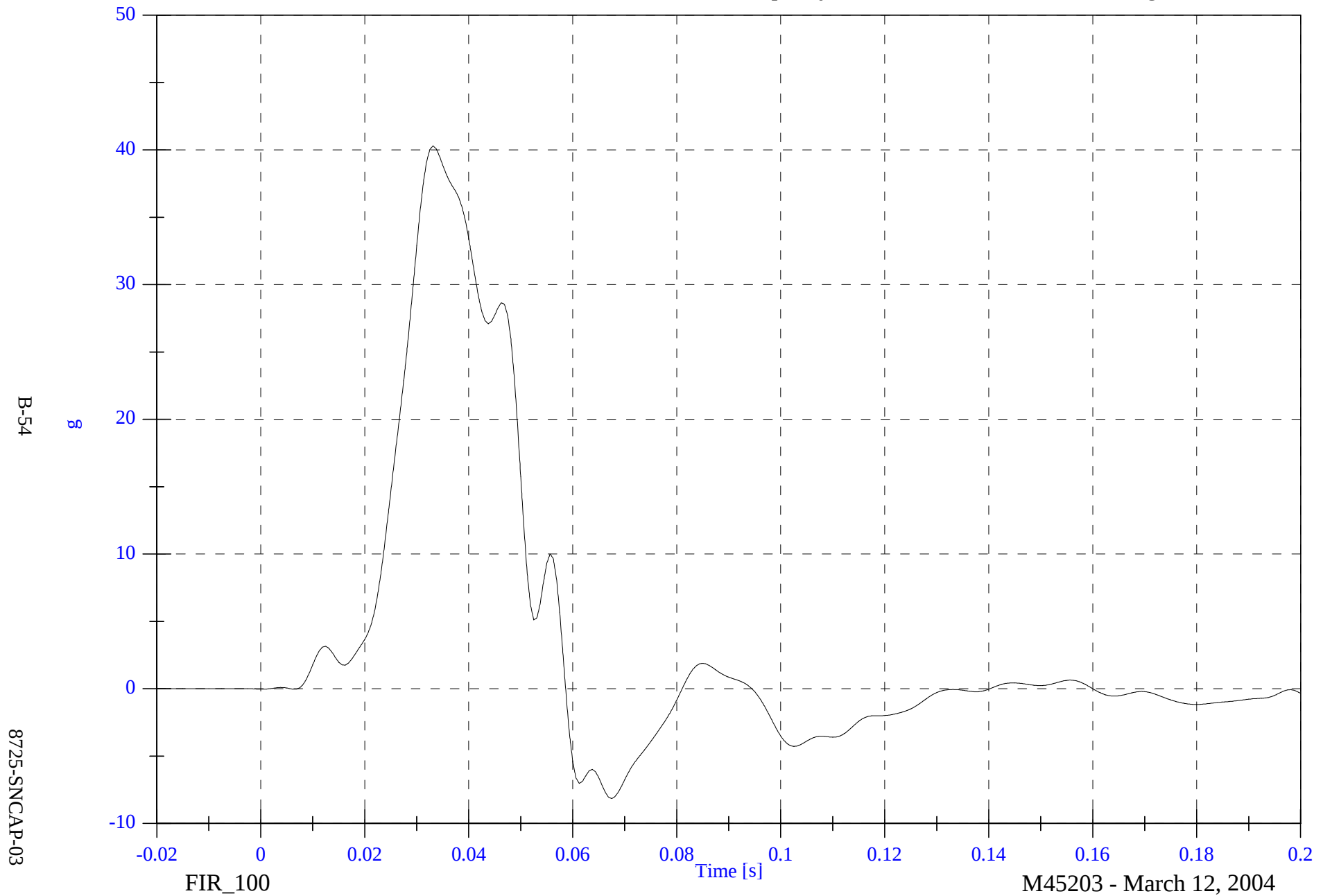


2004 SNCAP Test 3 2004 Infinity FX35/45

V2P1 Lower Spine y

Max: 40.3 [g] at 0.033 [s]

Min: -8.2 [g] at 0.068 [s]

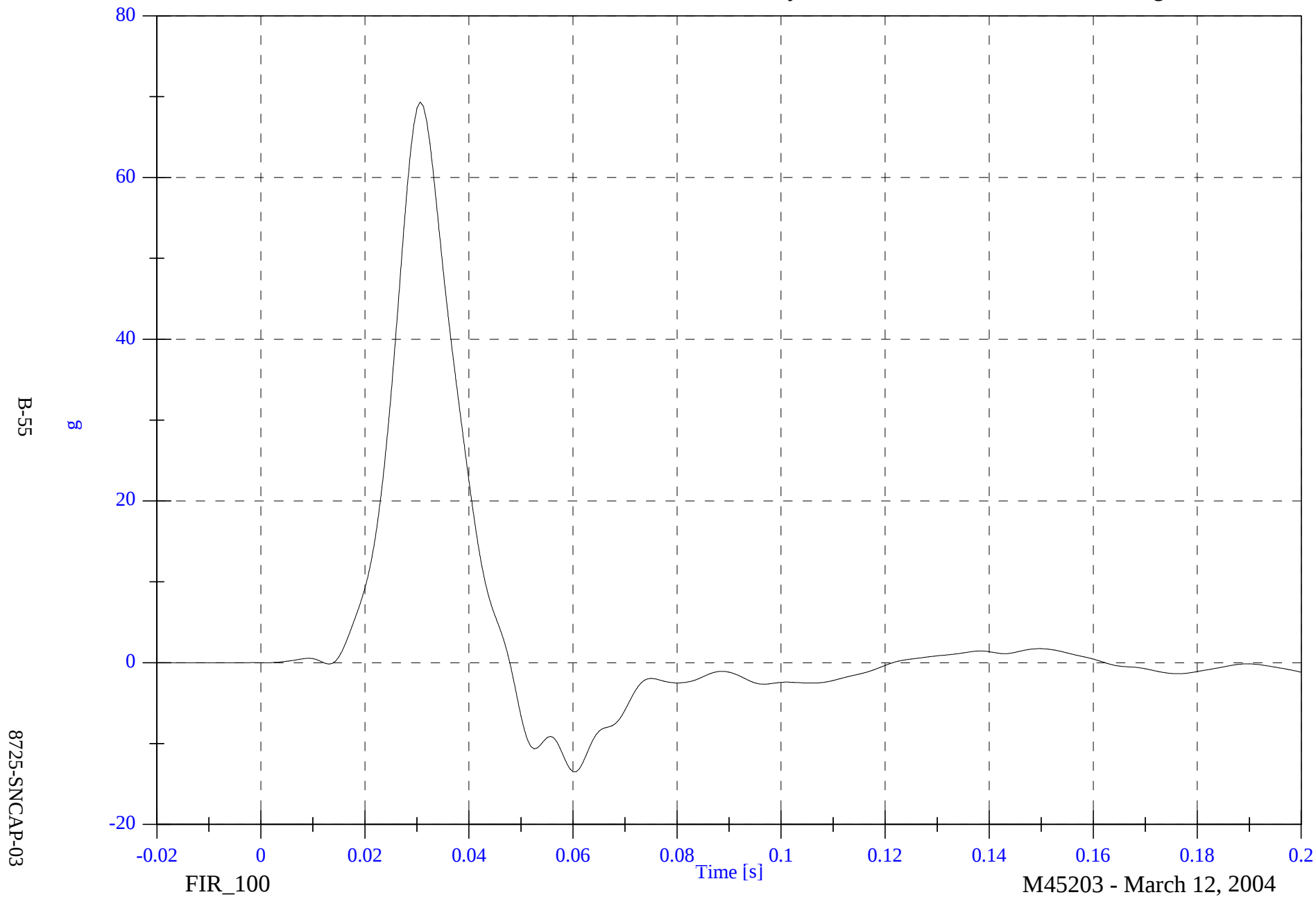


2004 SNCAP Test 3 2004 Infinity FX35/45

V2P1 Pelvic y

Max: 69.3 [g] at 0.031 [s]

Min: -13.5 [g] at 0.061 [s]

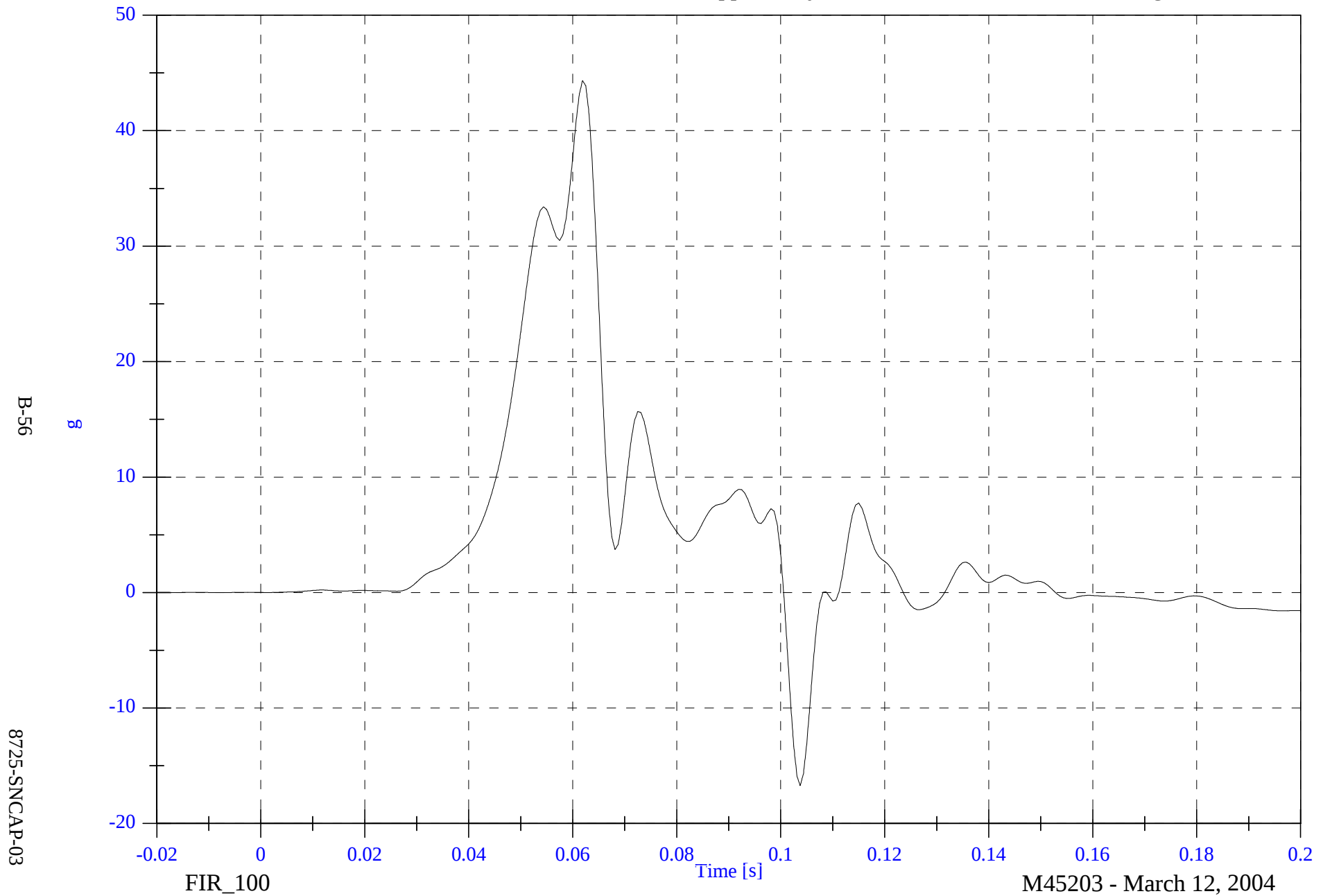


2004 SNCAP Test 3 2004 Infinity FX35/45

V2P4 Upper Rib y

Max: 44.3 [g] at 0.062 [s]

Min: -16.7 [g] at 0.104 [s]

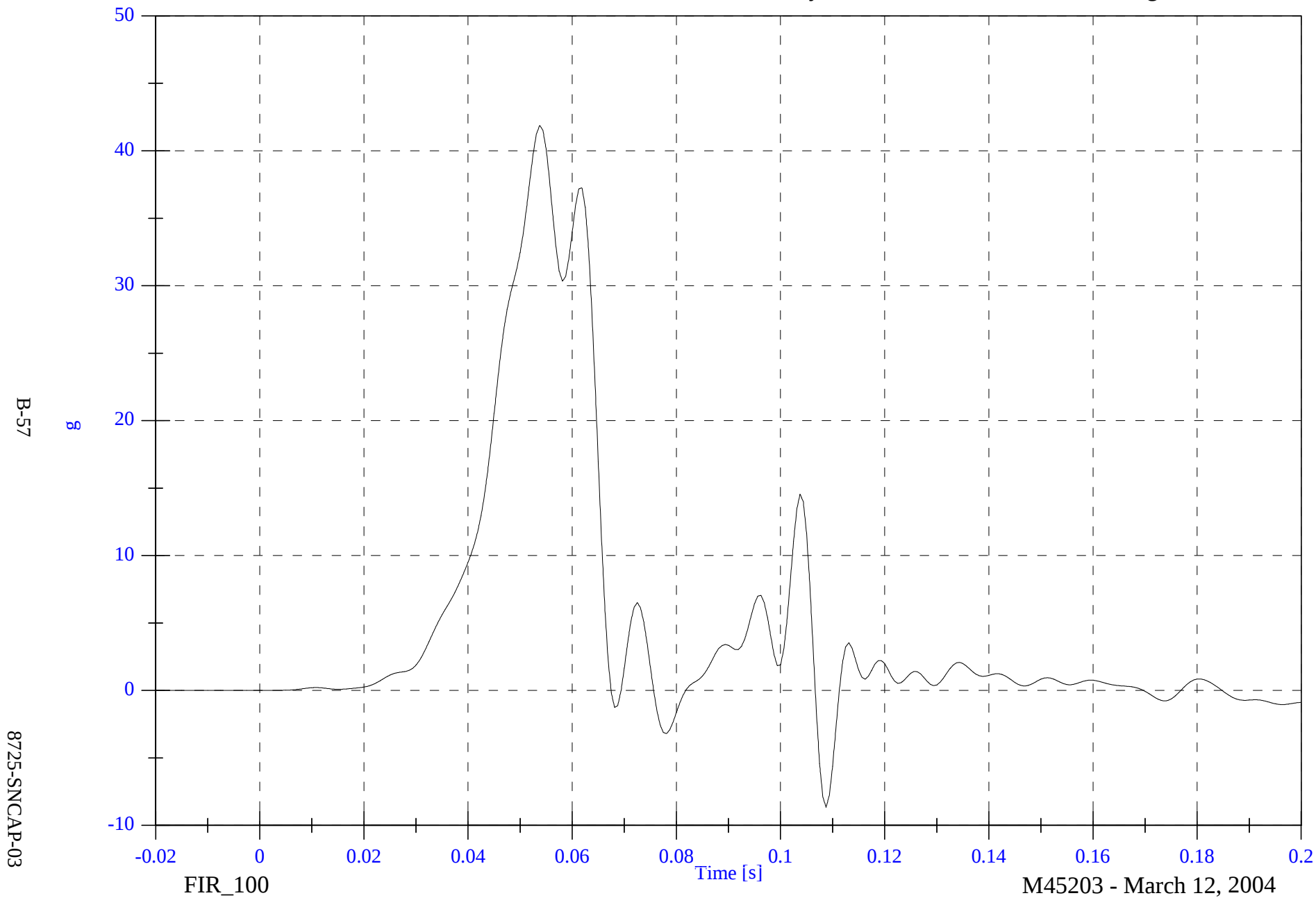


2004 SNCAP Test 3 2004 Infinity FX35/45

V2P4 Lower Rib y

Max: 41.9 [g] at 0.054 [s]

Min: -8.7 [g] at 0.109 [s]

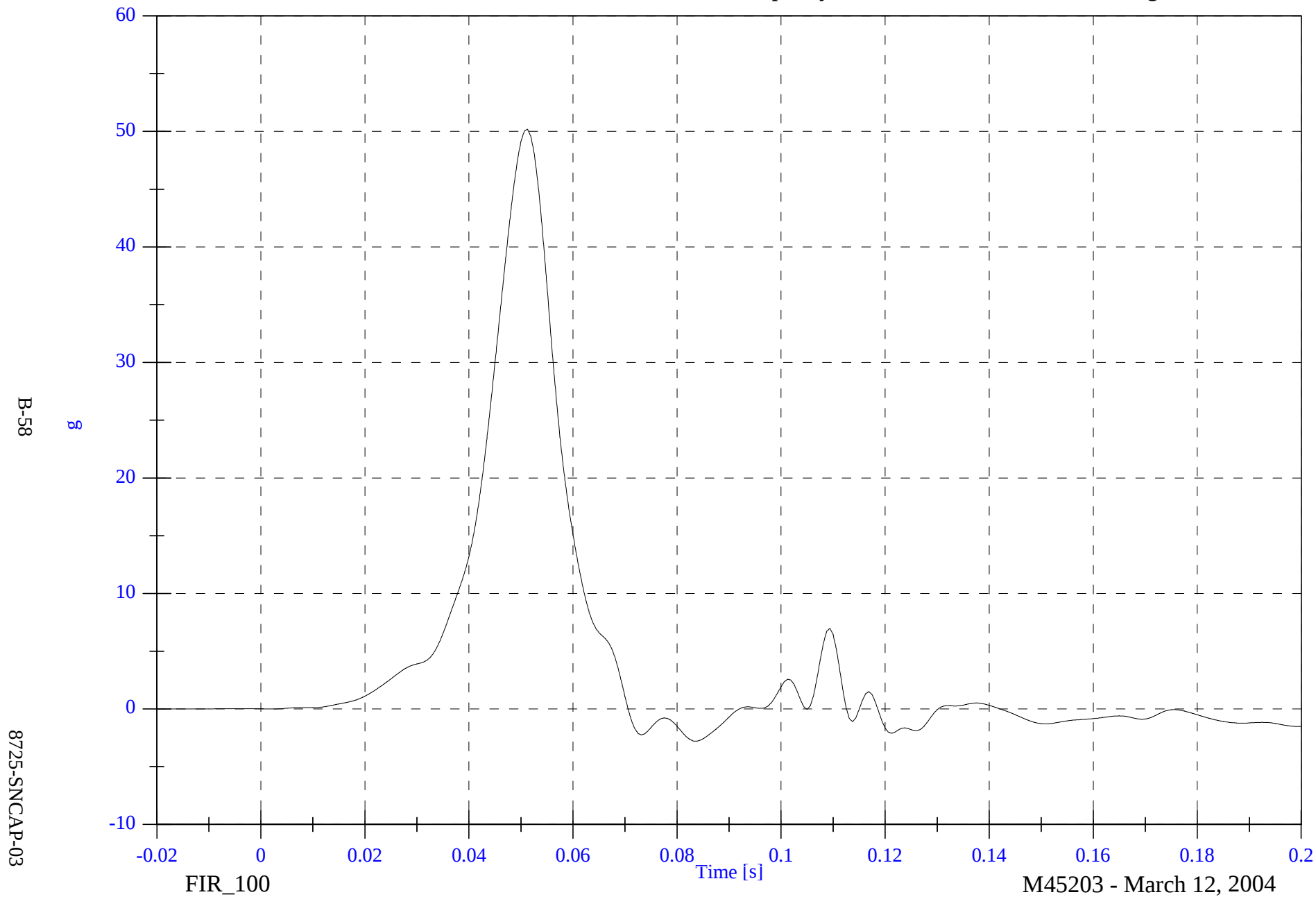


2004 SNCAP Test 3 2004 Infinity FX35/45

V2P4 Lower Spine y

Max: 50.2 [g] at 0.051 [s]

Min: -2.8 [g] at 0.084 [s]

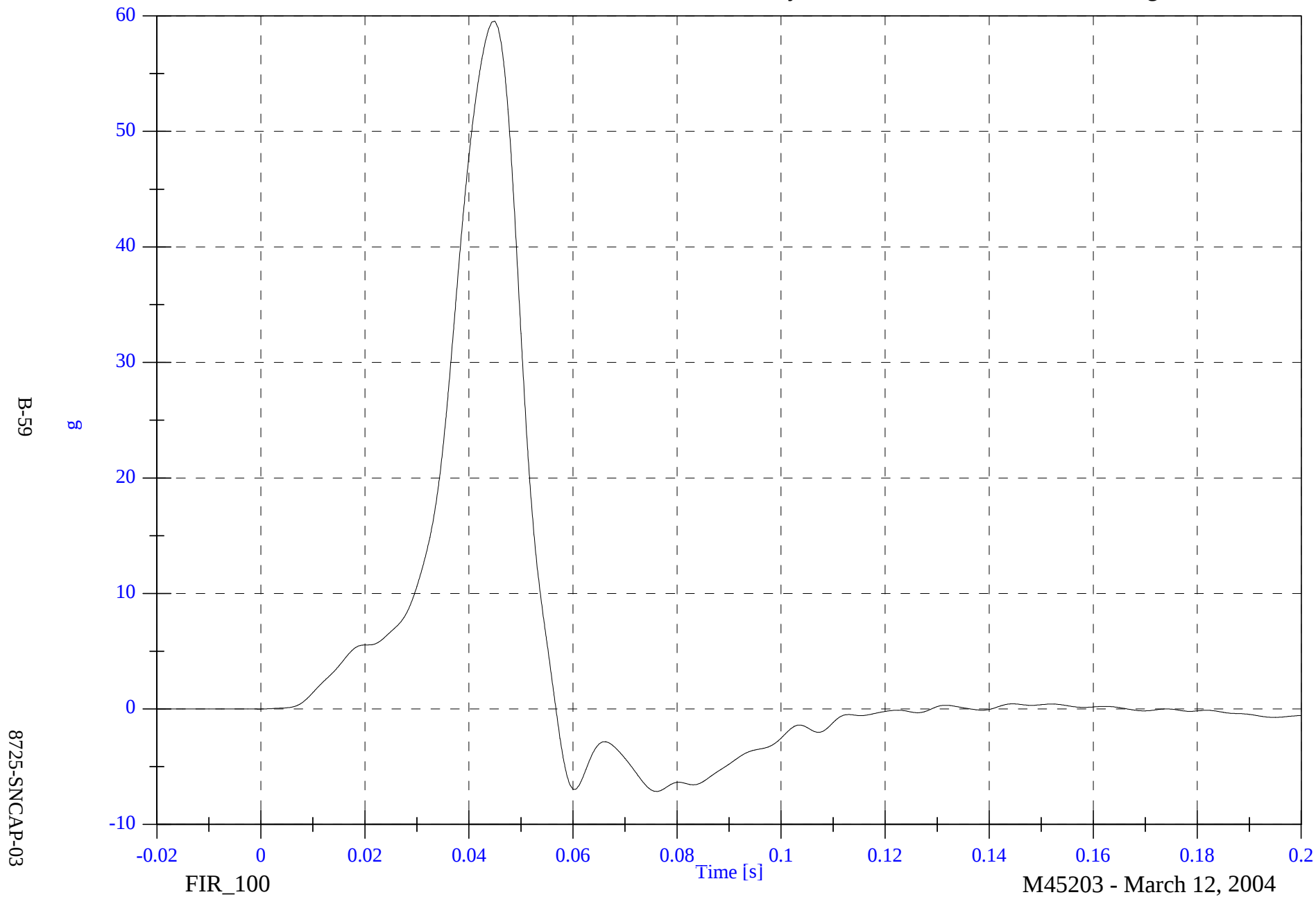


2004 SNCAP Test 3 2004 Infinity FX35/45

V2P4 Pelvic y

Max: 59.5 [g] at 0.045 [s]

Min: -7.1 [g] at 0.076 [s]

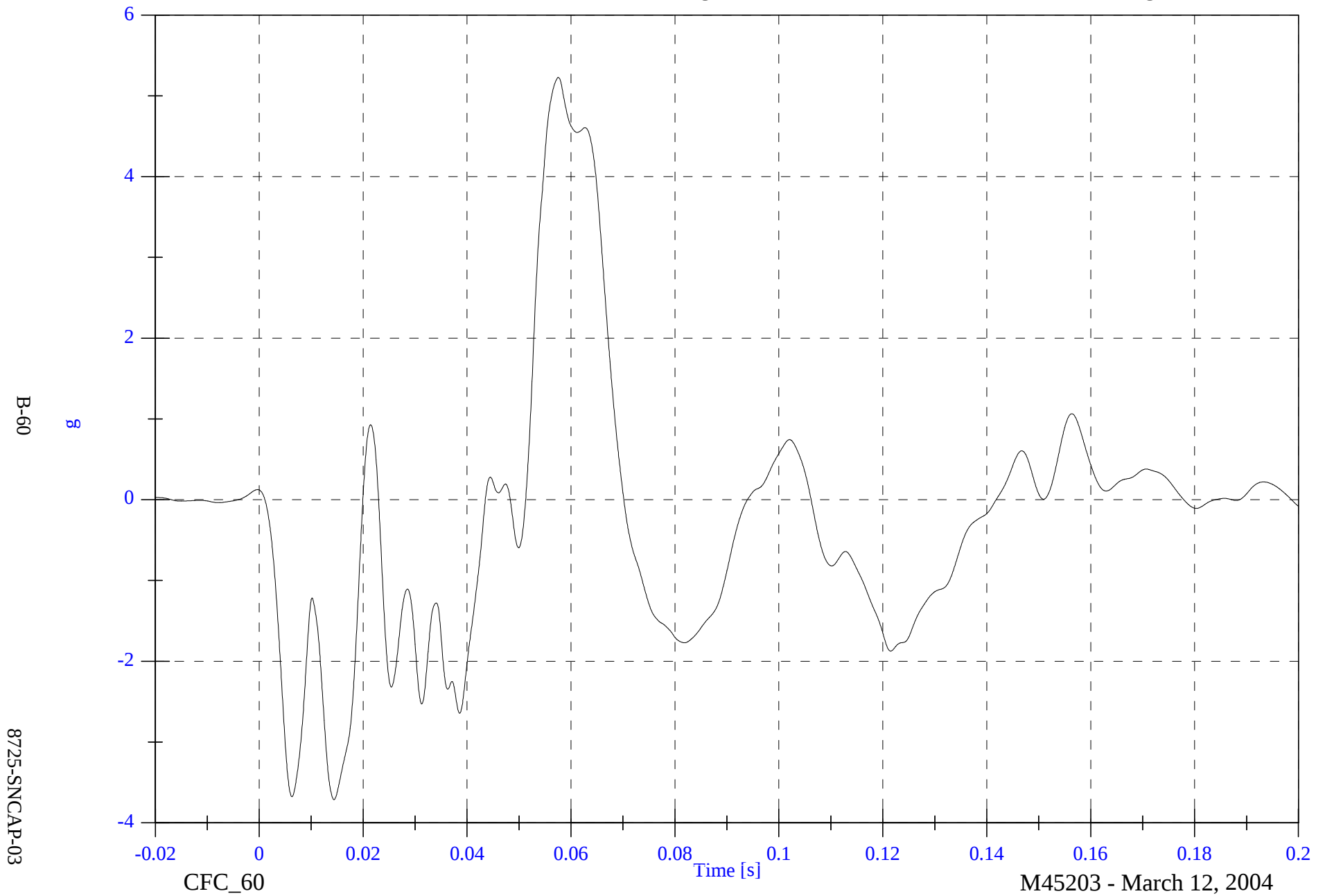


2004 SNCAP Test 3 2004 Infinity FX35/45

V2 A1 Right Front Sill X

Max: 5.2 [g] at 0.058 [s]

Min: -3.7 [g] at 0.014 [s]

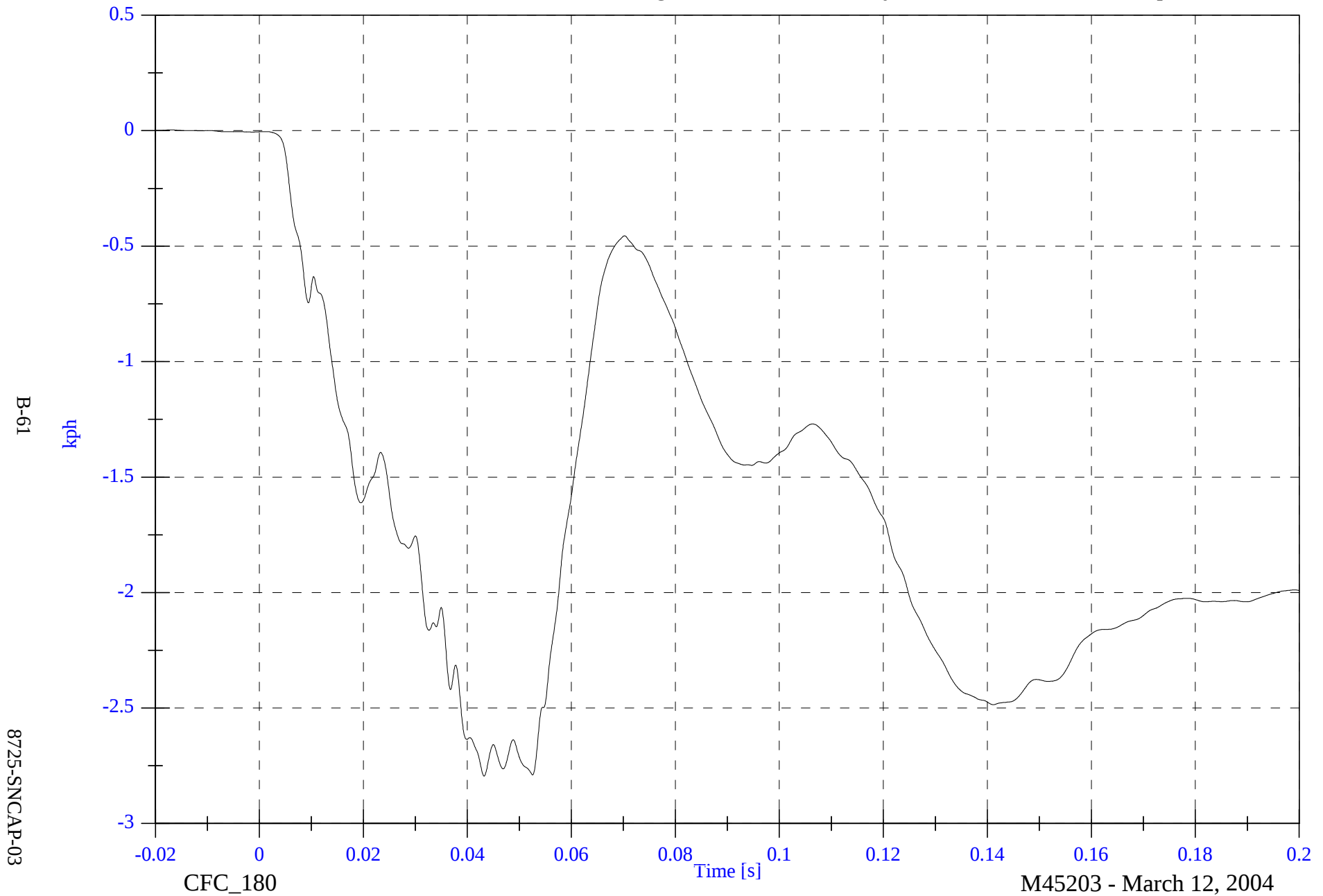


2004 SNCAP Test 3 2004 Infinity FX35/45

V2 A1 Right Front Sill X Velocity

Max: 0.0 [kph] at -0.017 [s]

Min: -2.8 [kph] at 0.043 [s]

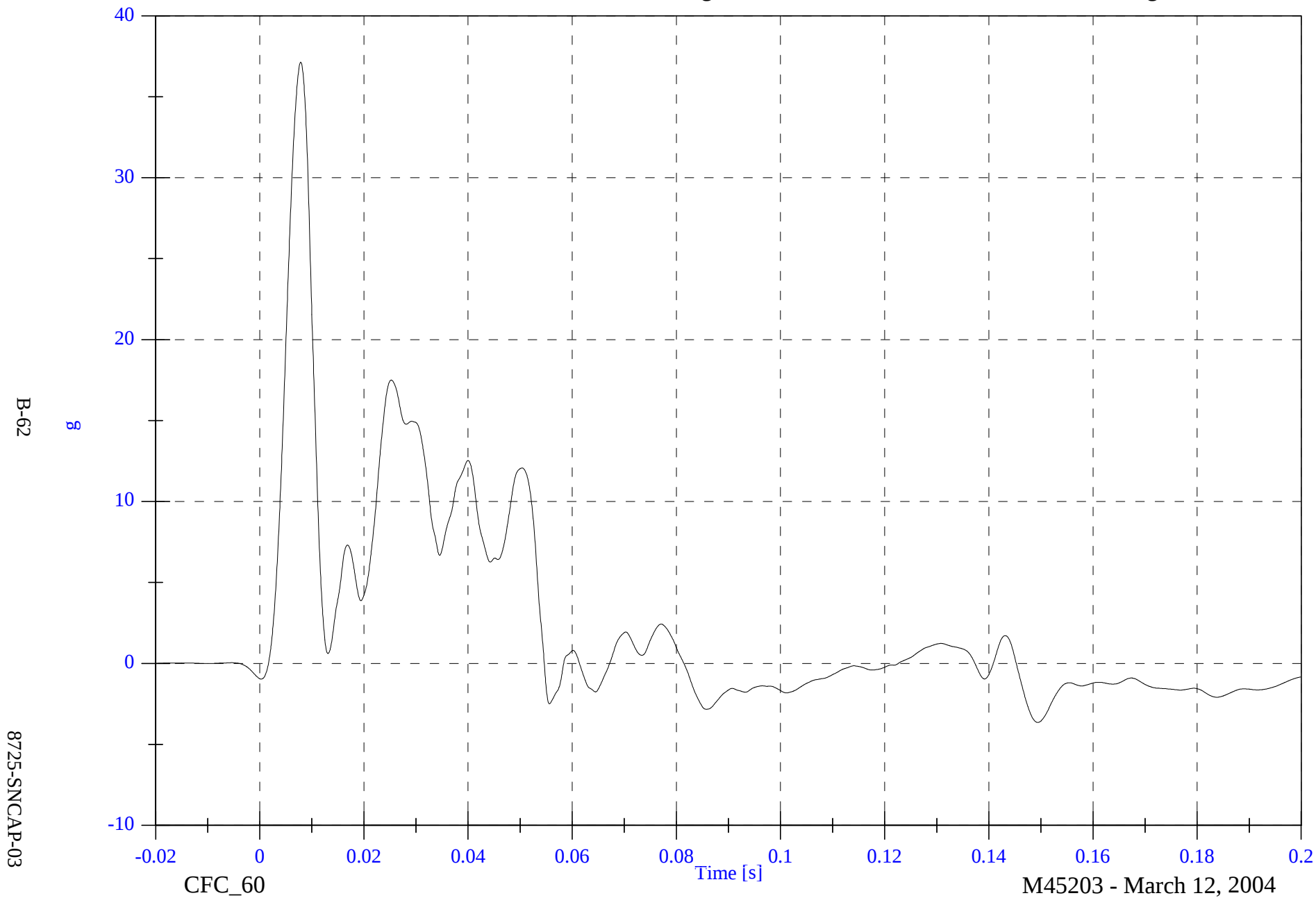


2004 SNCAP Test 3 2004 Infinity FX35/45

V2 A1 Right Front Sill Y

Max: 37.1 [g] at 0.008 [s]

Min: -3.6 [g] at 0.149 [s]

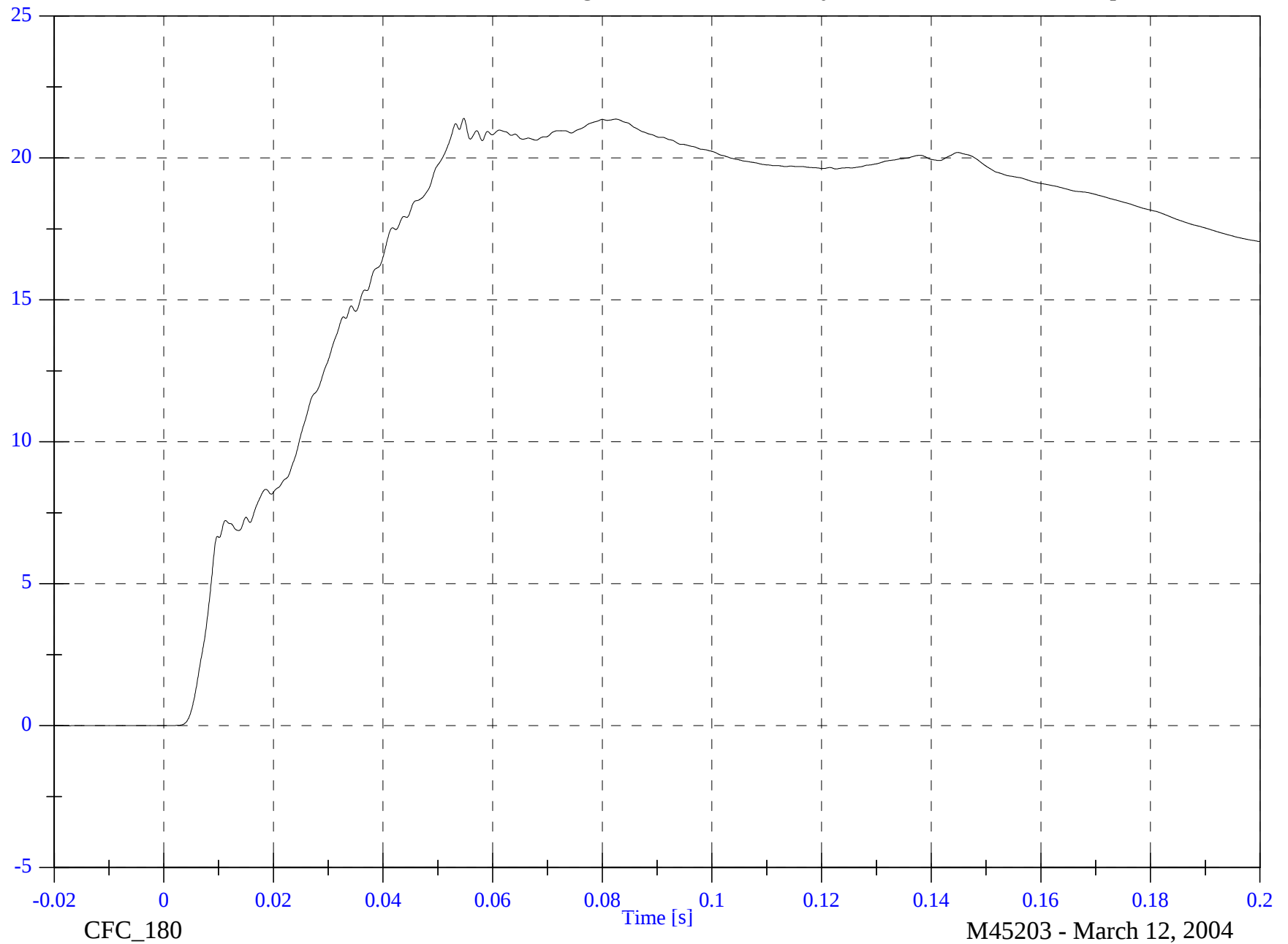


2004 SNCAP Test 3 2004 Infinity FX35/45

Max: 21.4 [kph] at 0.055 [s]

V2 A1 Right Front Sill Y Velocity

Min: -0.0 [kph] at -0.020 [s]



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8725-SNCAP-03

CFC_180

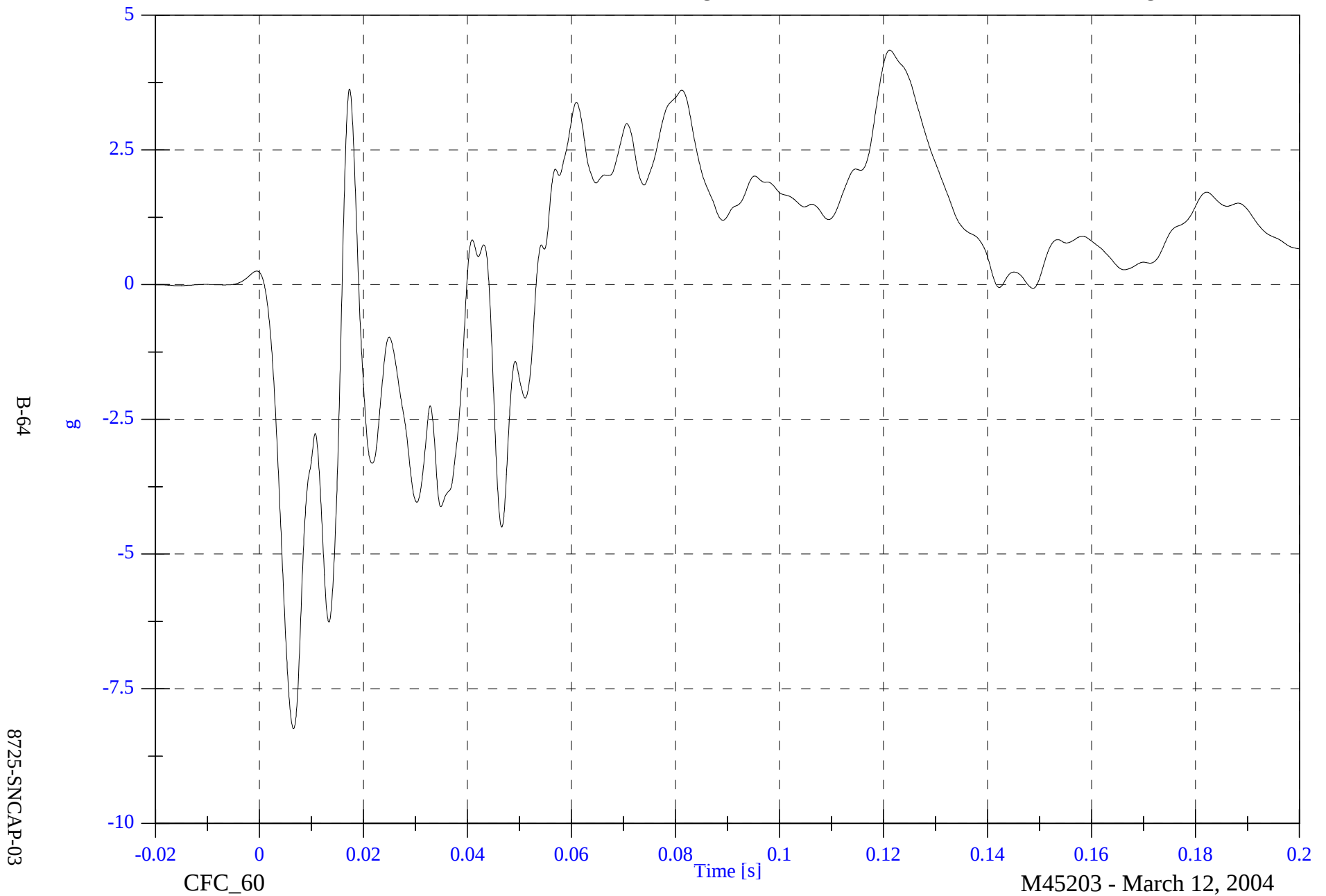
M45203 - March 12, 2004

2004 SNCAP Test 3 2004 Infinity FX35/45

V2 A1 Right Front Sill Z

Max: 4.4 [g] at 0.121 [s]

Min: -8.2 [g] at 0.007 [s]

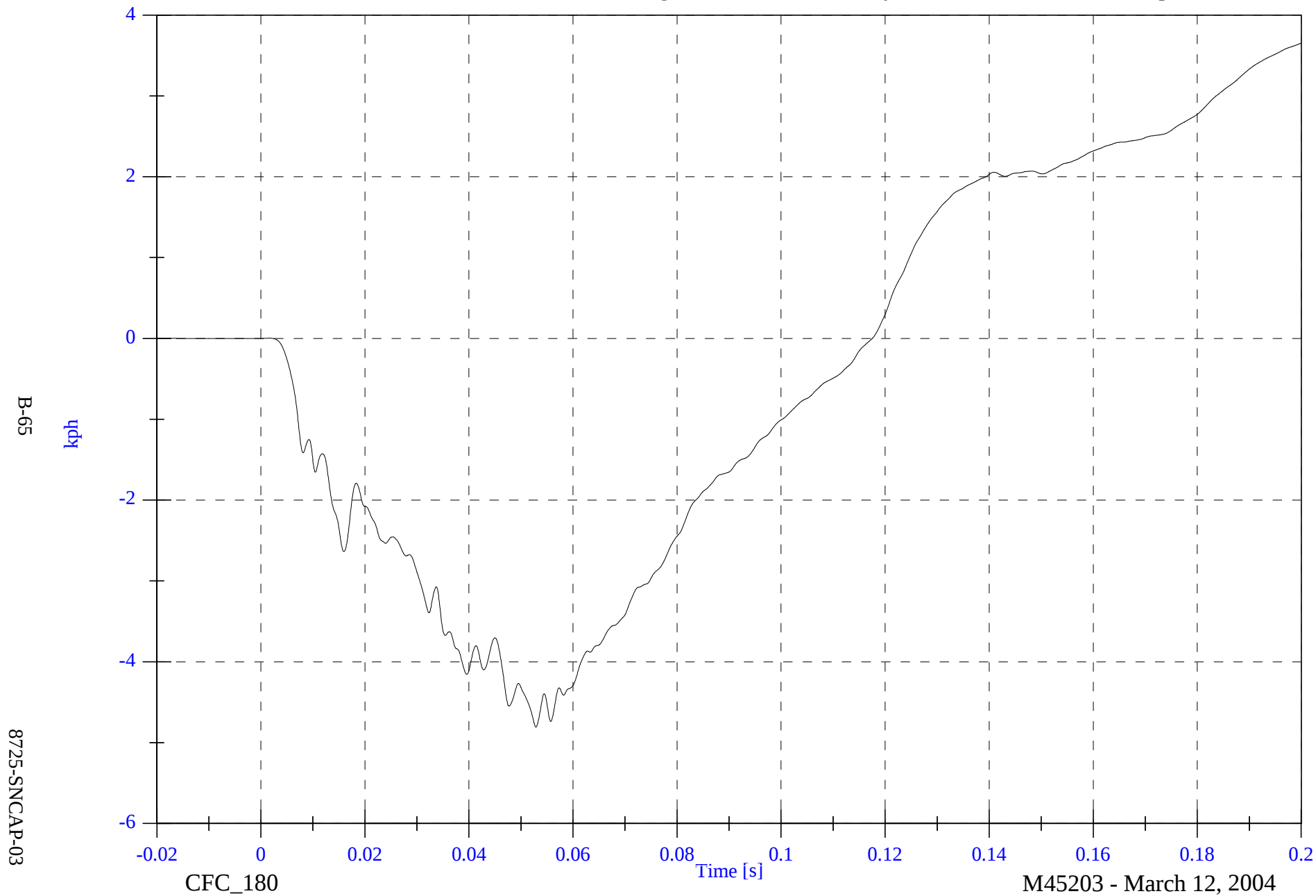


2004 SNCAP Test 3 2004 Infinity FX35/45

Max: 3.7 [kph] at 0.200 [s]

V2 A1 Right Front Sill Z Velocity

Min: -4.8 [kph] at 0.053 [s]

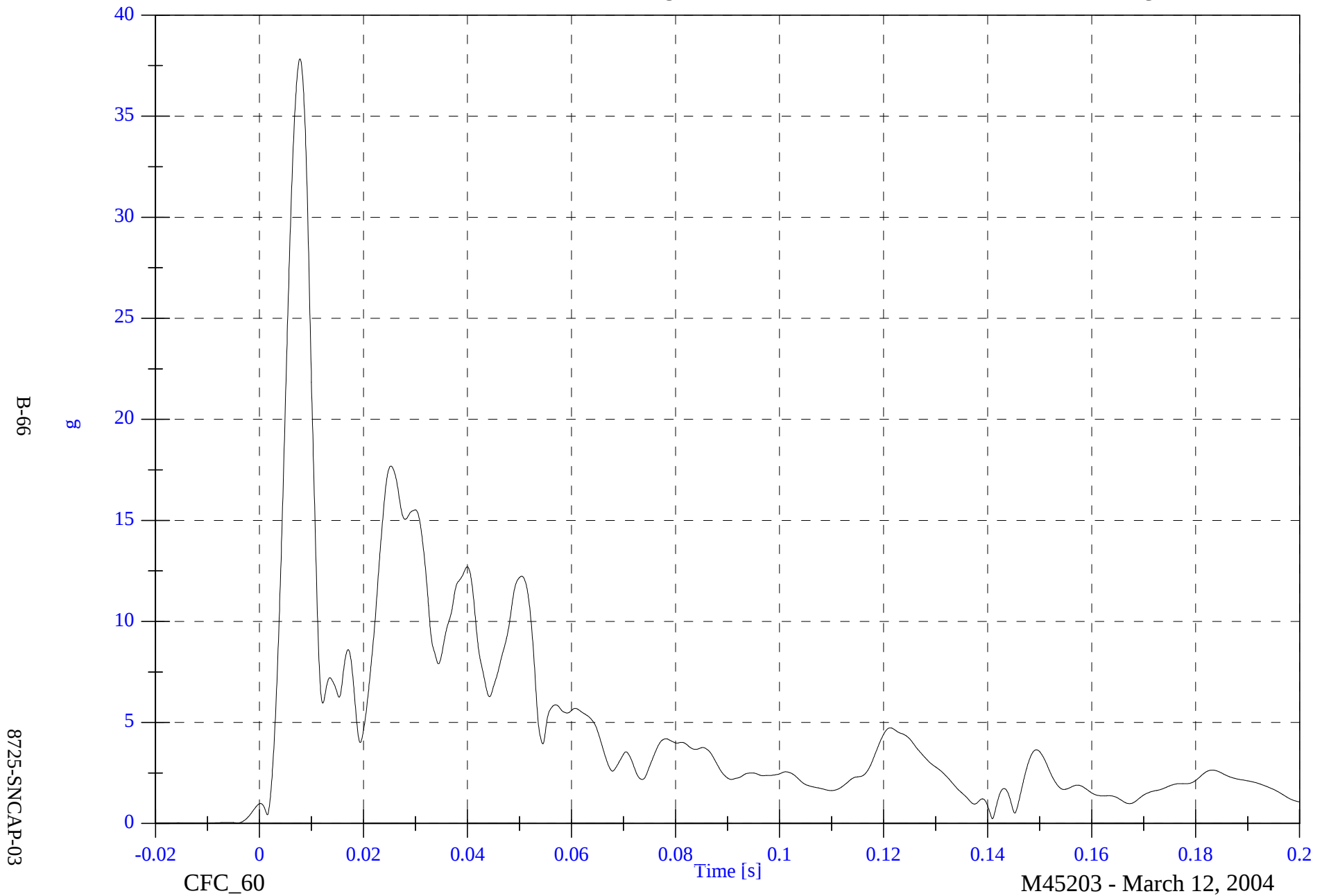


2004 SNCAP Test 3 2004 Infinity FX35/45

V2 A1 Right Front Sill Resultant

Max: 37.8 [g] at 0.008 [s]

Min: 0.0 [g] at -0.011 [s]

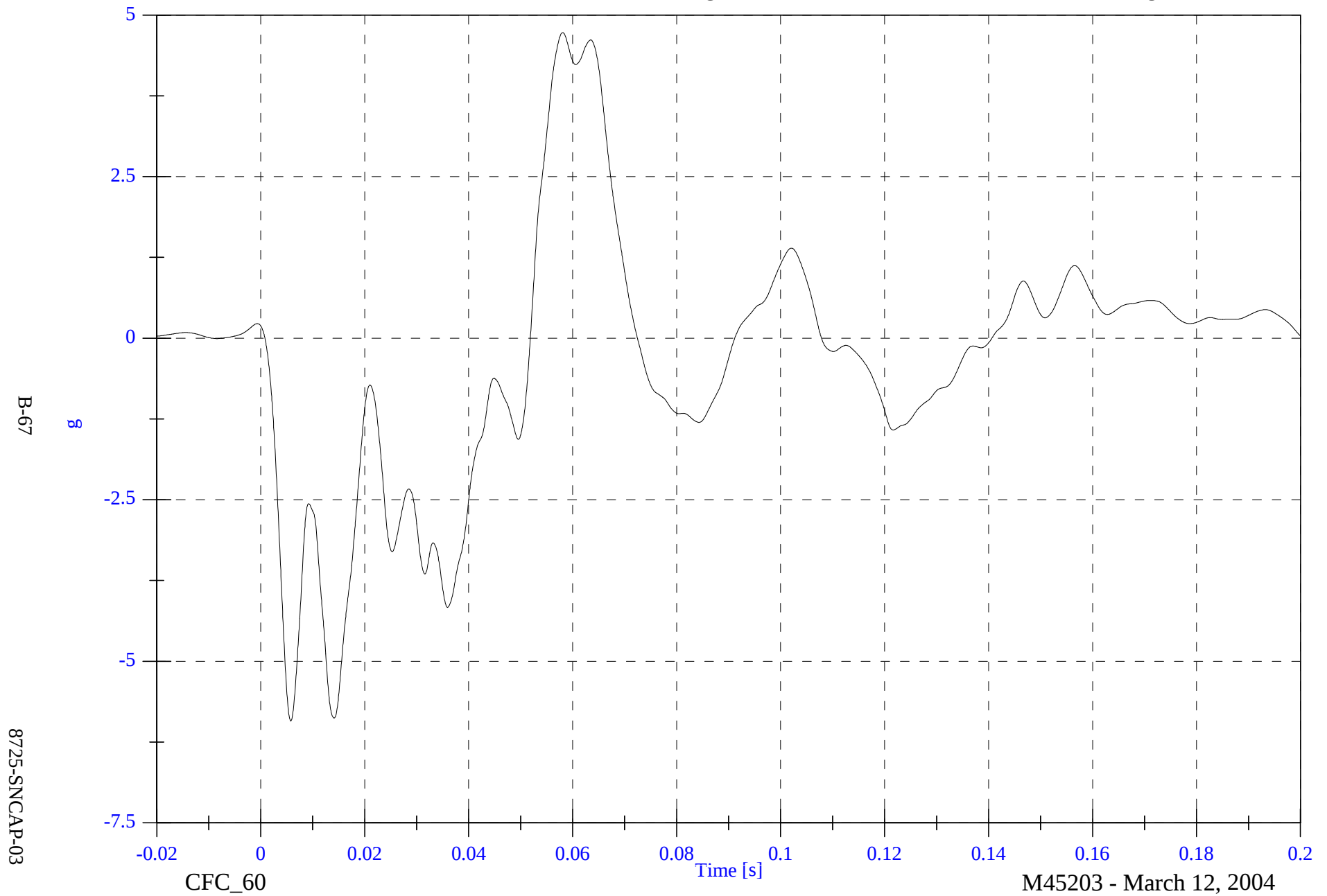


2004 SNCAP Test 3 2004 Infinity FX35/45

V2 A2 Right Rear Sill X

Max: 4.7 [g] at 0.058 [s]

Min: -5.9 [g] at 0.006 [s]

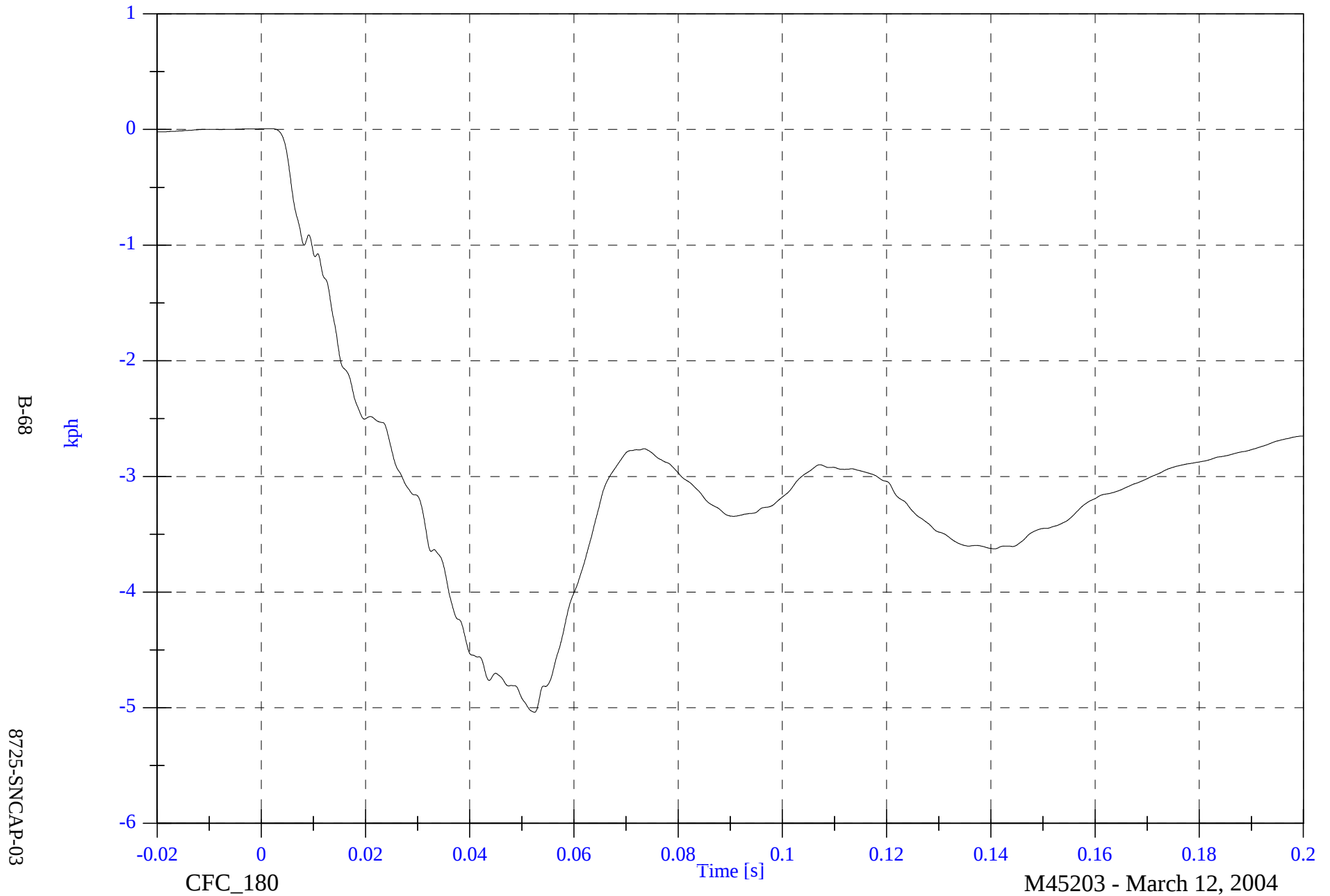


2004 SNCAP Test 3 2004 Infinity FX35/45

V2 A2 Right Rear Sill X Velocity

Max: 0.0 [kph] at 0.001 [s]

Min: -5.0 [kph] at 0.052 [s]

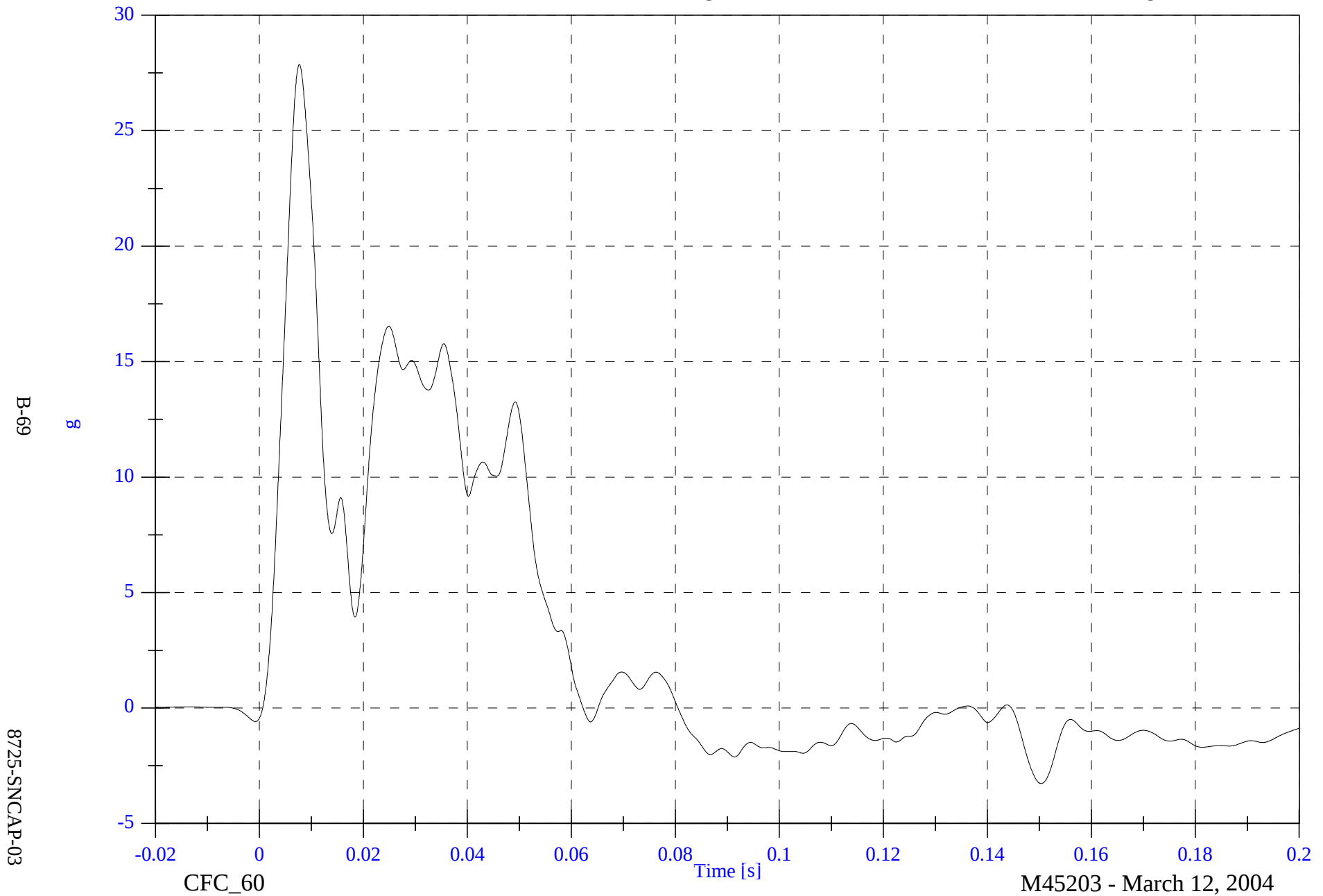


2004 SNCAP Test 3 2004 Infinity FX35/45

V2 A2 Right Rear Sill Y

Max: 27.9 [g] at 0.008 [s]

Min: -3.3 [g] at 0.150 [s]

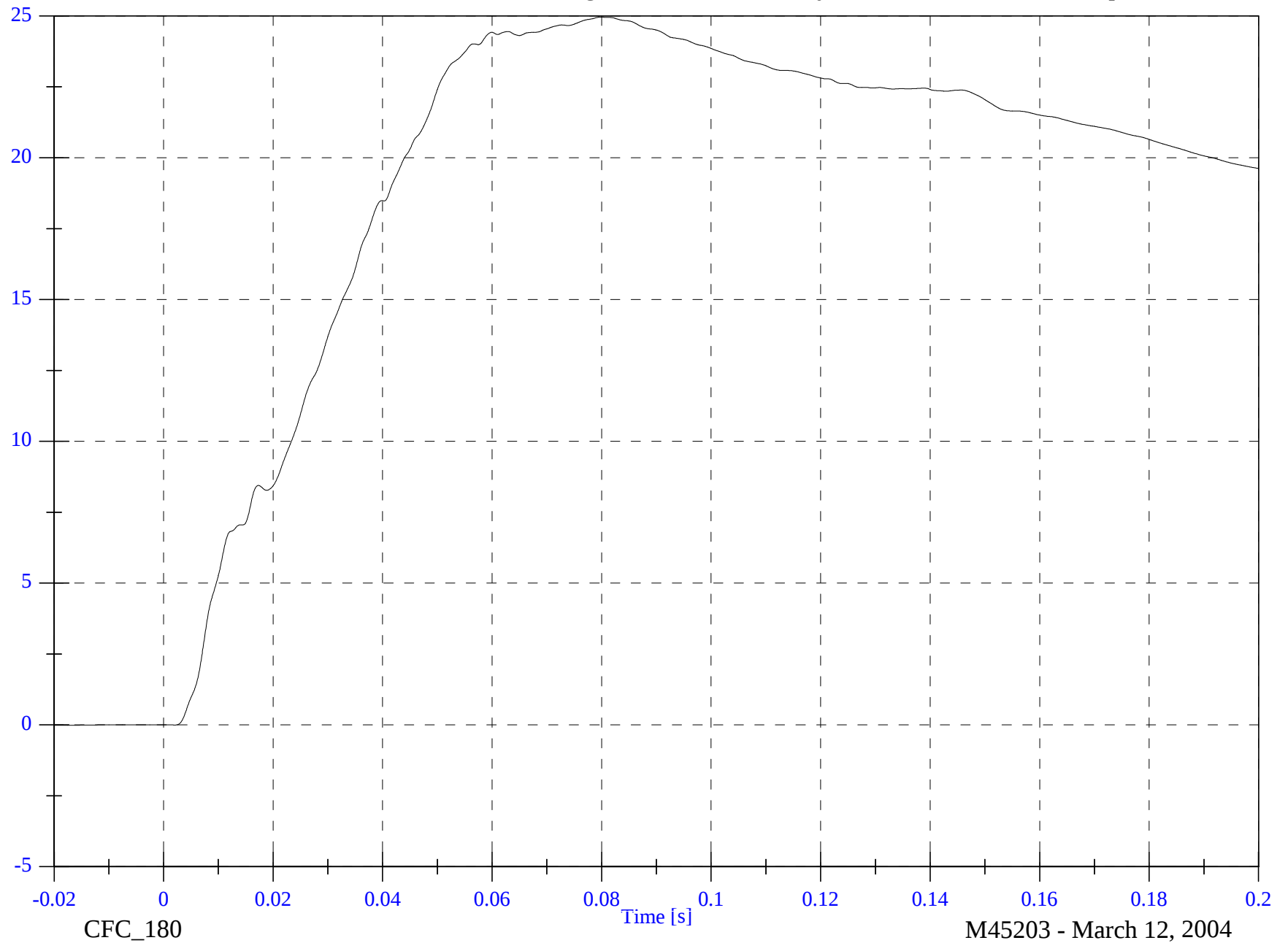


2004 SNCAP Test 3 2004 Infinity FX35/45

Max: 25.0 [kph] at 0.080 [s]

V2 A2 Right Rear Sill Y Velocity

Min: -0.0 [kph] at -0.019 [s]



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8725-SNCAP-03

CFC_180

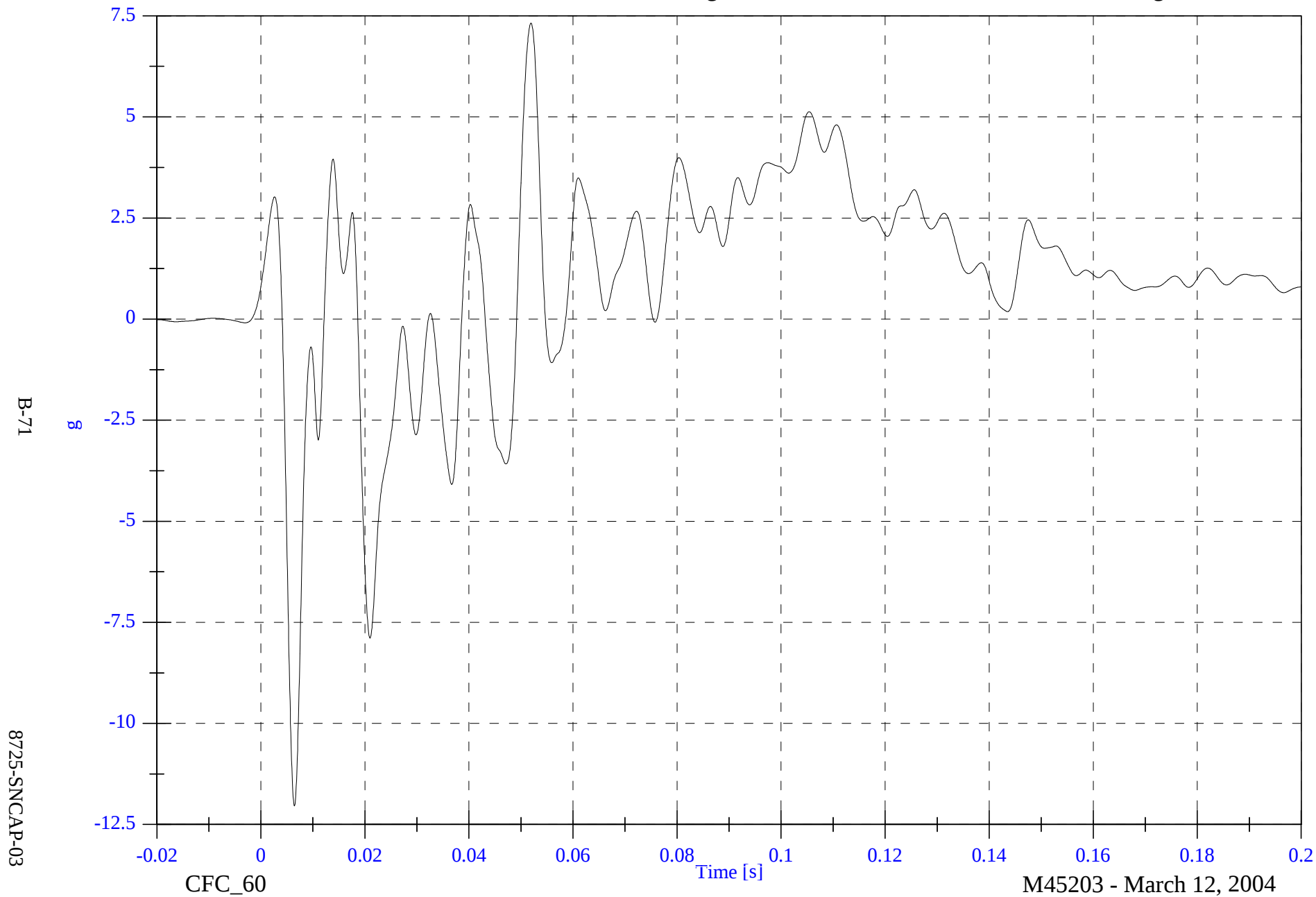
M45203 - March 12, 2004

2004 SNCAP Test 3 2004 Infinity FX35/45

V2 A2 Right Rear Sill Z

Max: 7.3 [g] at 0.052 [s]

Min: -12.0 [g] at 0.006 [s]



2004 SNCAP Test 3 2004 Infinity FX35/45

V2 A2 Right Rear Sill Z Velocity

Max: 7.8 [kph] at 0.200 [s]

Min: -3.0 [kph] at 0.049 [s]

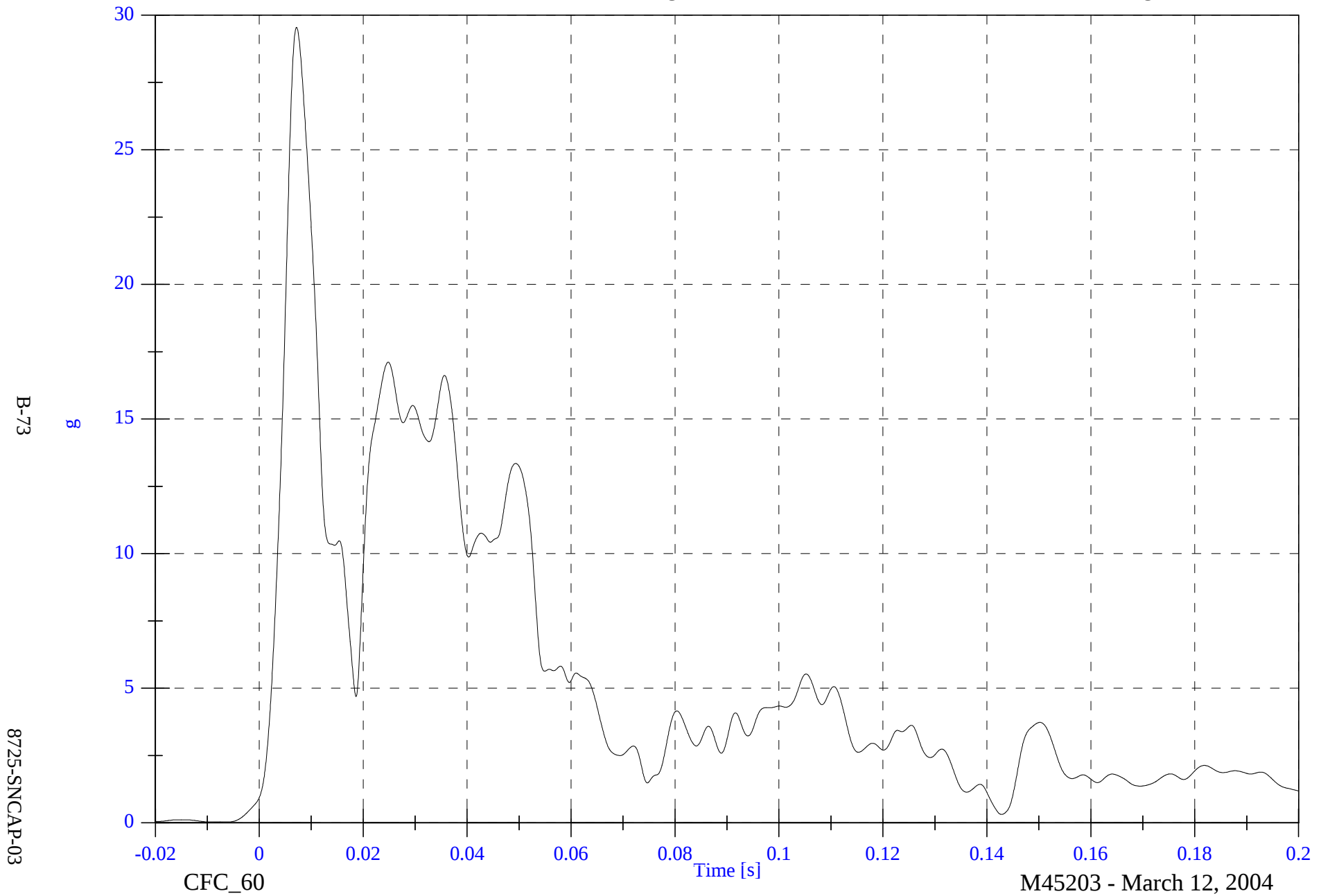


2004 SNCAP Test 3 2004 Infinity FX35/45

V2 A2 Right Rear Sill Resultant

Max: 29.5 [g] at 0.007 [s]

Min: 0.0 [g] at -0.007 [s]

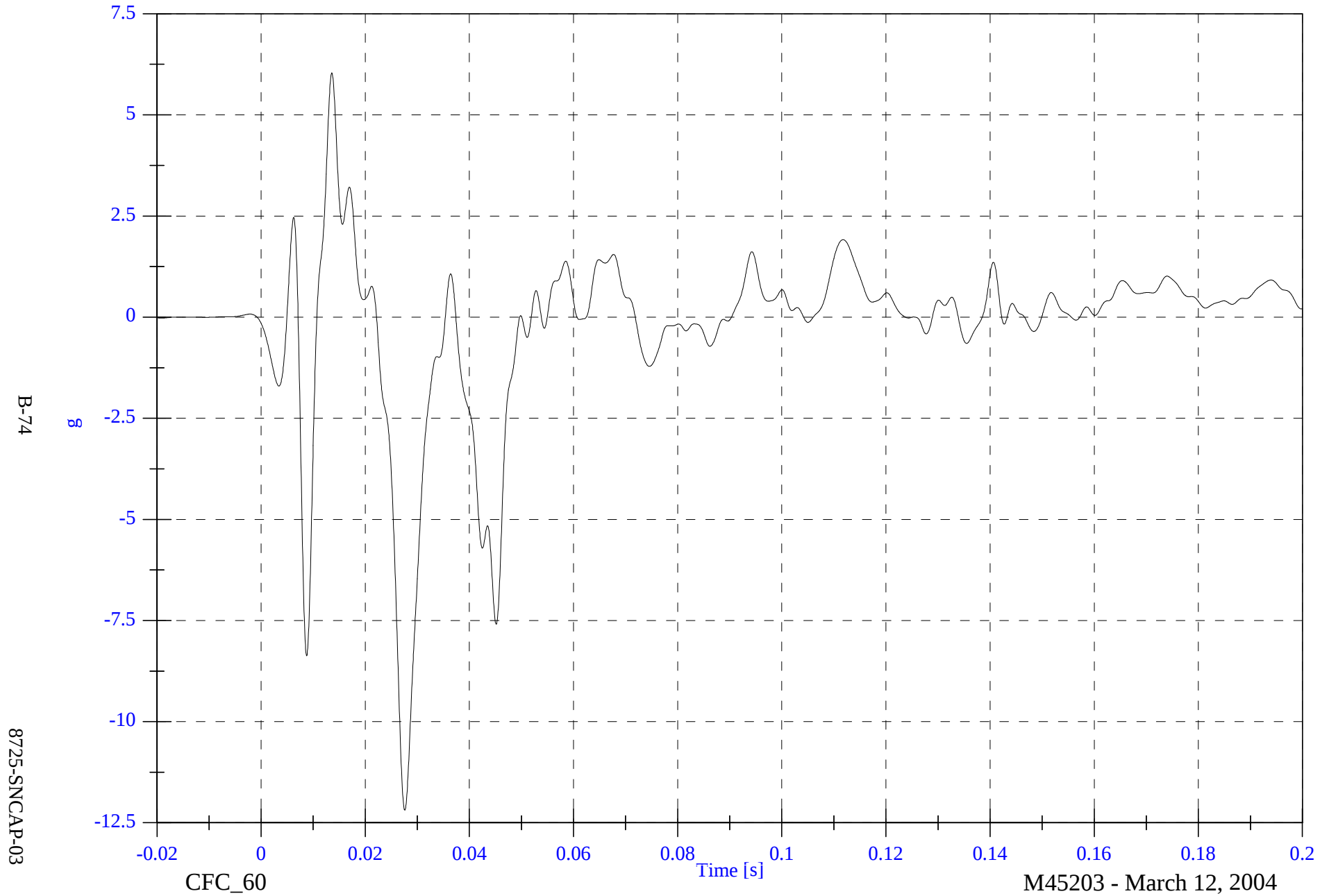


2004 SNCAP Test 3 2004 Infinity FX35/45

V2 A3 Rear Floorpan X

Max: 6.0 [g] at 0.014 [s]

Min: -12.2 [g] at 0.028 [s]

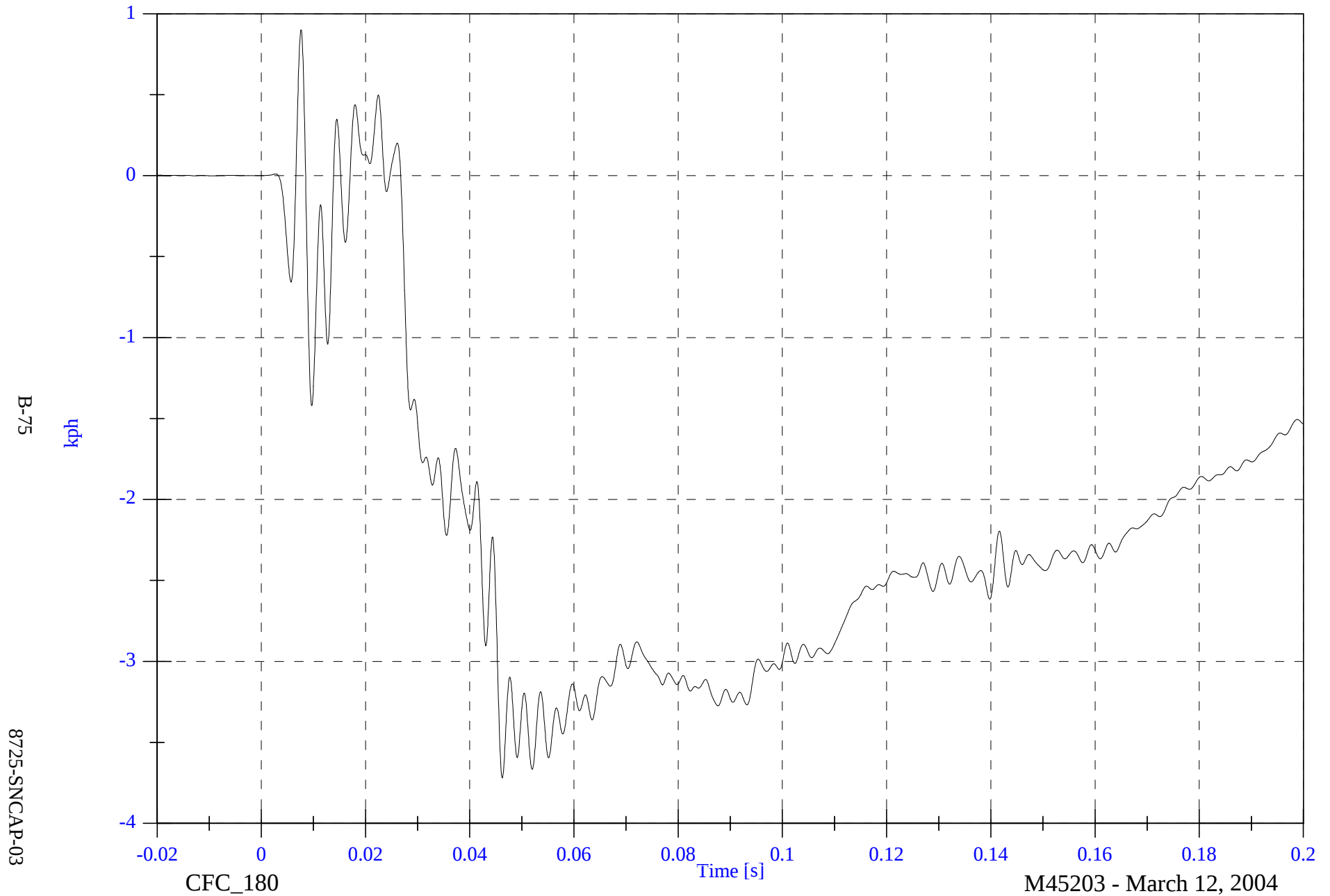


2004 SNCAP Test 3 2004 Infinity FX35/45

V2 A3 Rear Floorpan X Velocity

Max: 0.9 [kph] at 0.008 [s]

Min: -3.7 [kph] at 0.046 [s]

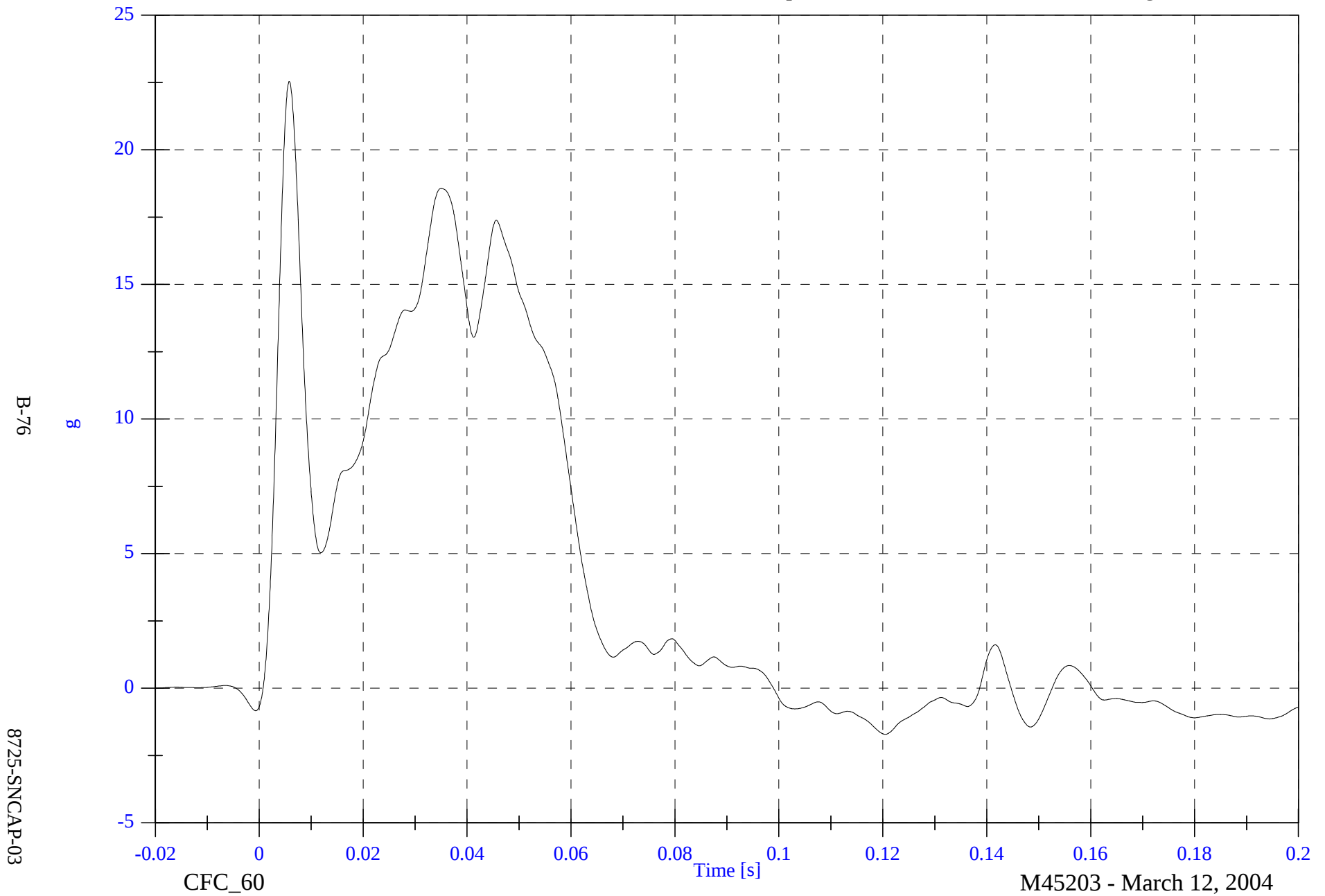


2004 SNCAP Test 3 2004 Infinity FX35/45

V2 A3 Rear Floorpan Y

Max: 22.5 [g] at 0.006 [s]

Min: -1.7 [g] at 0.120 [s]

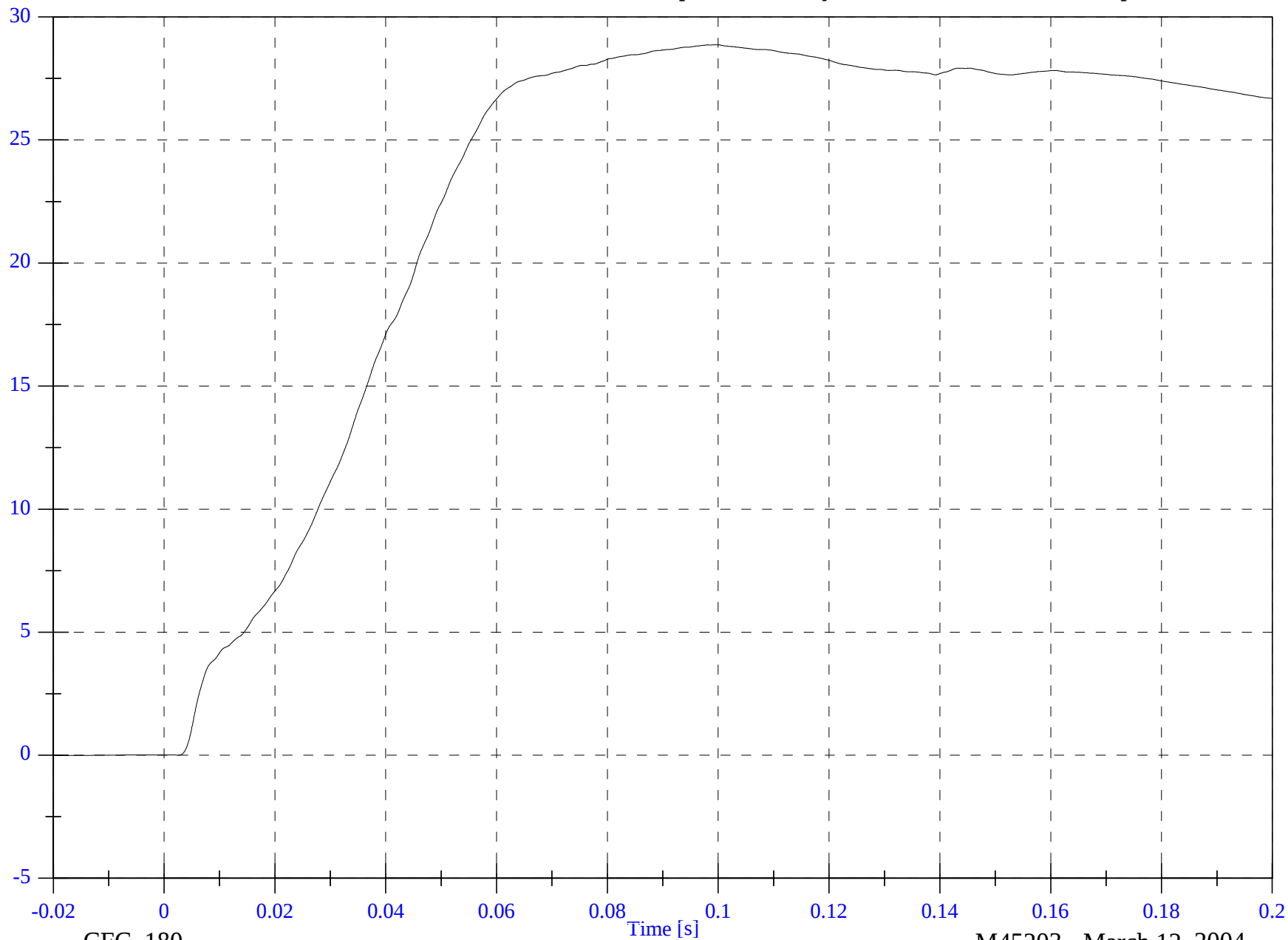


2004 SNCAP Test 3 2004 Infinity FX35/45

Max: 28.9 [kph] at 0.100 [s]

V2 A3 Rear Floorpan Y Velocity

Min: -0.0 [kph] at -0.019 [s]



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CFC_180

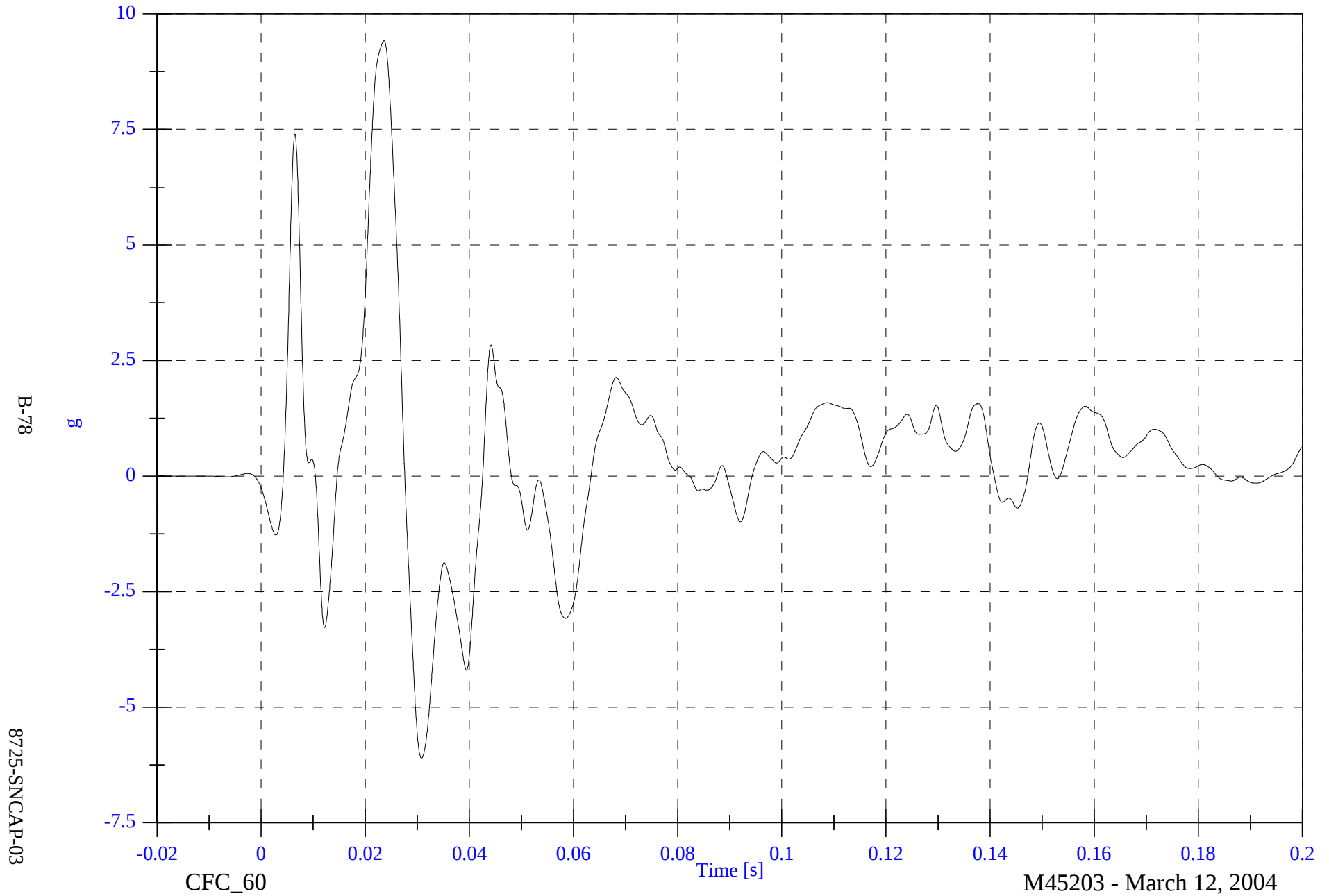
M45203 - March 12, 2004

2004 SNCAP Test 3 2004 Infinity FX35/45

V2 A3 Rear Floorplan Z

Max: 9.4 [g] at 0.024 [s]

Min: -6.1 [g] at 0.031 [s]



2004 SNCAP Test 3 2004 Infinity FX35/45

V2 A3 Rear Floorplan Z Velocity

Max: 3.1 [kph] at 0.183 [s]

Min: -0.7 [kph] at 0.006 [s]

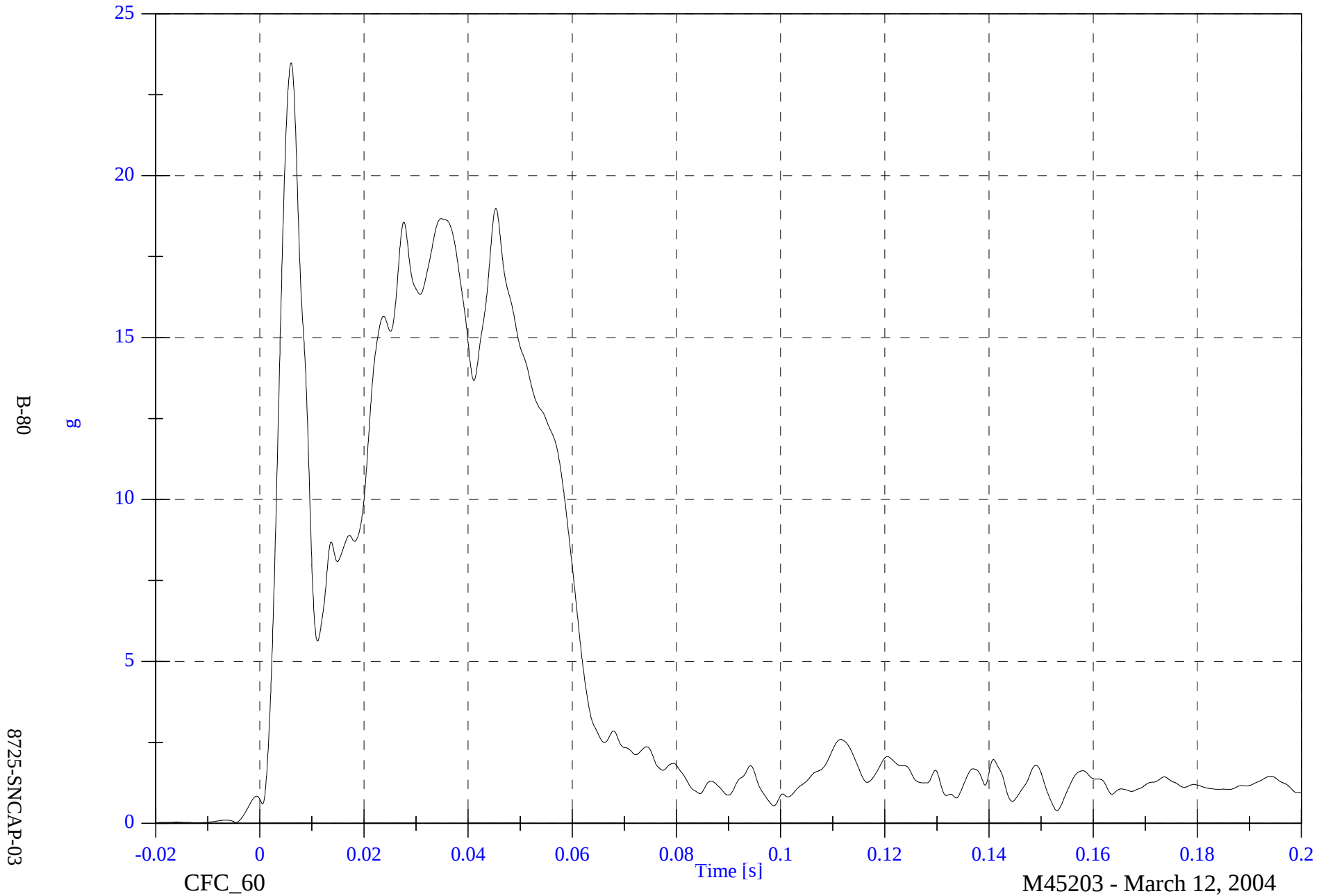


2004 SNCAP Test 3 2004 Infinity FX35/45

V2 A3 Rear Floorpan Resultant

Max: 23.5 [g] at 0.006 [s]

Min: 0.0 [g] at -0.012 [s]

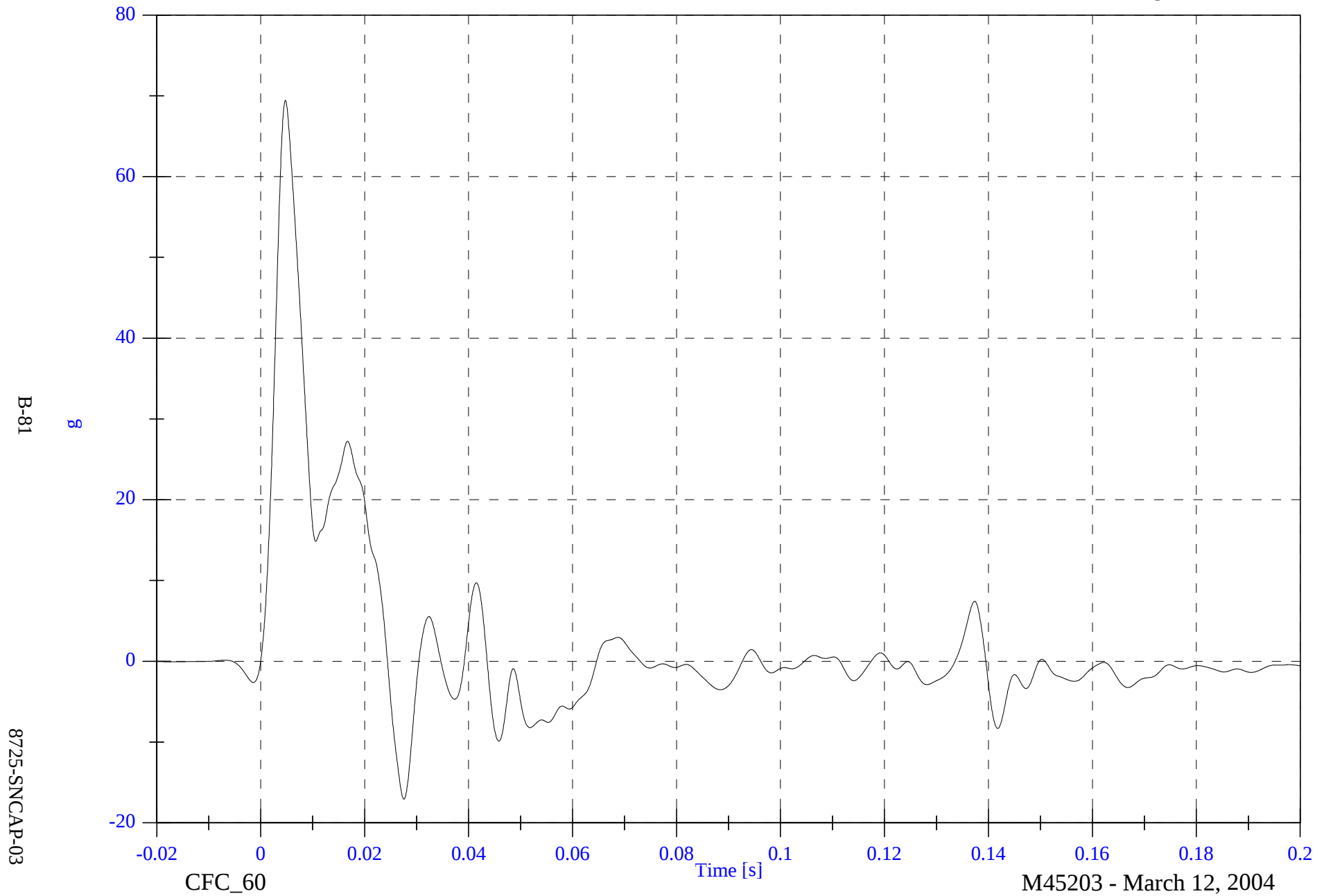


2004 SNCAP Test 3 2004 Infinity FX35/45

V2 A4 Left Rear Sill Y

Max: 69.4 [g] at 0.005 [s]

Min: -17.1 [g] at 0.028 [s]

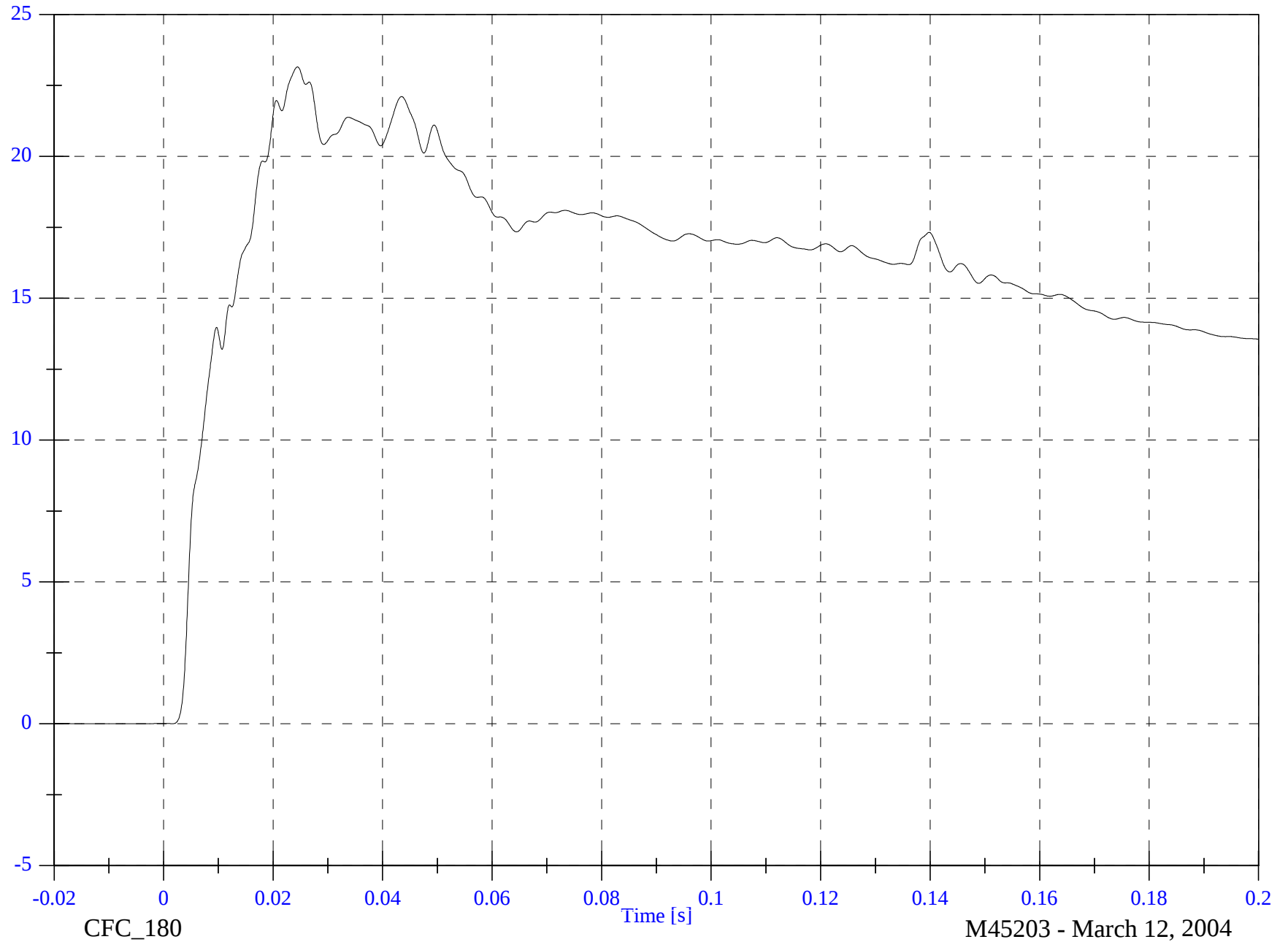


2004 SNCAP Test 3 2004 Infinity FX35/45

V2 A4 Left Rear Sill Y Velocity

Max: 23.2 [kph] at 0.024 [s]

Min: -0.0 [kph] at -0.008 [s]



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8725-SNCAP-03

CFC_180

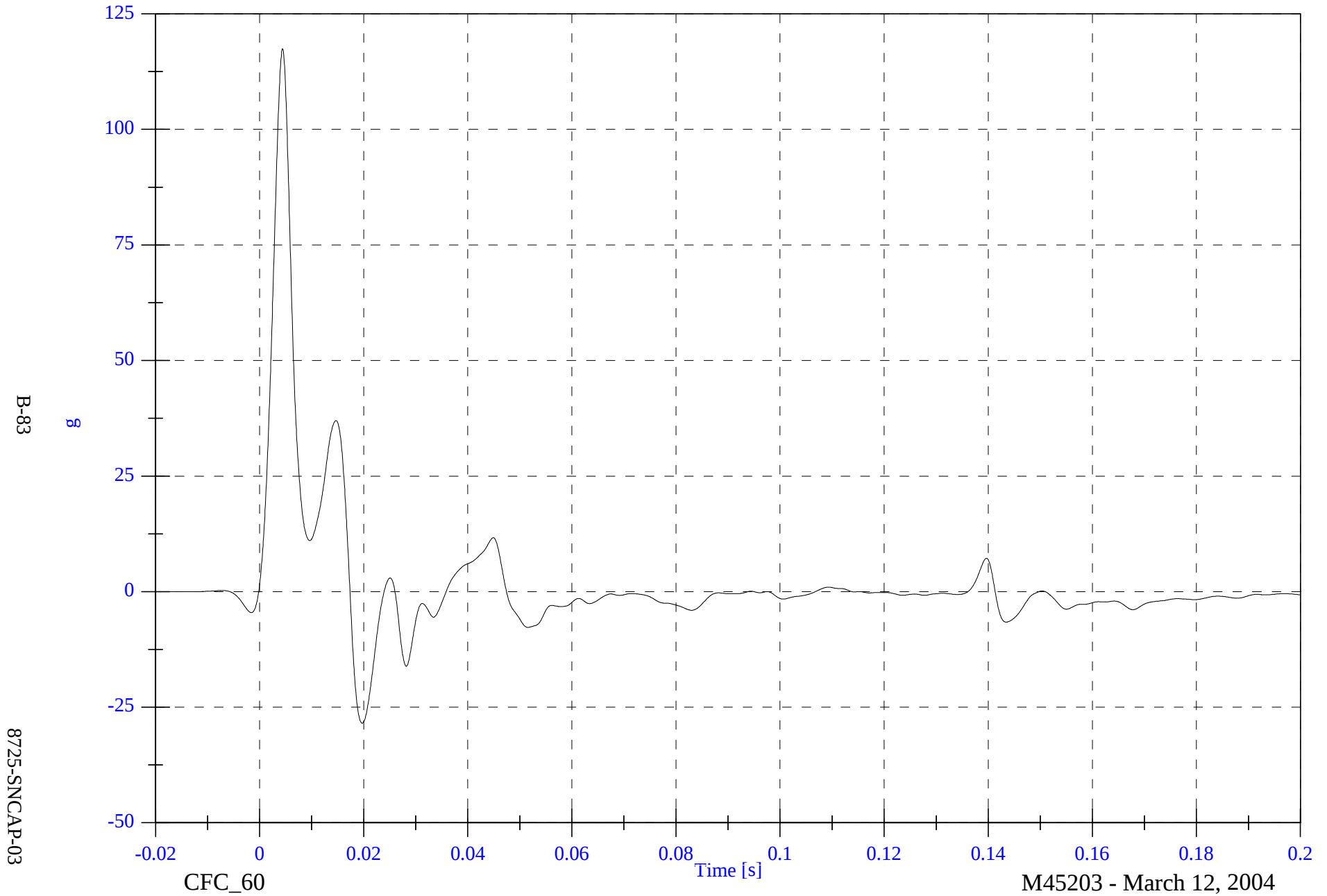
M45203 - March 12, 2004

2004 SNCAP Test 3 2004 Infinity FX35/45

V2 A5 Left Front Sill Y

Max: 117.4 [g] at 0.004 [s]

Min: -28.5 [g] at 0.020 [s]

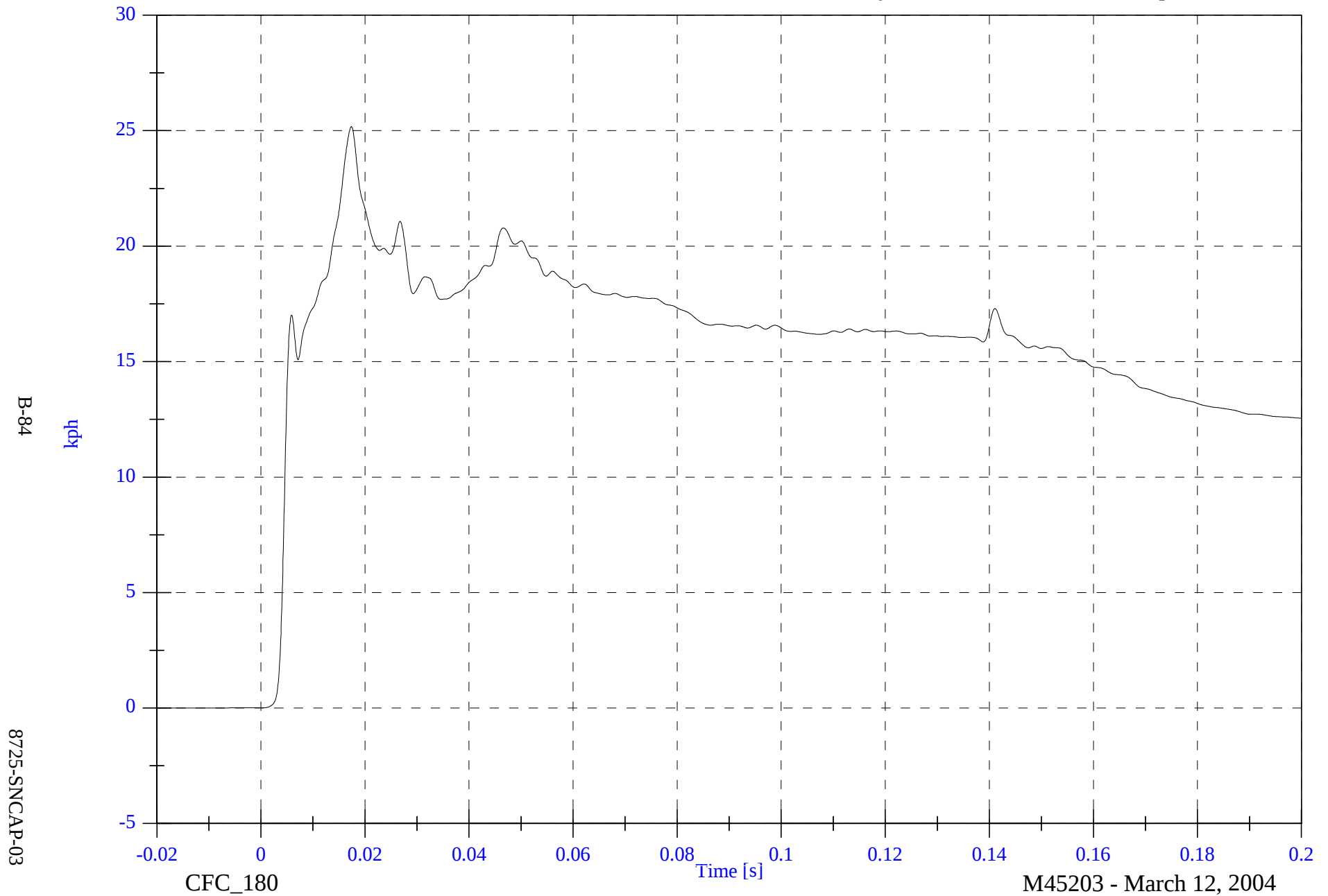


2004 SNCAP Test 3 2004 Infinity FX35/45

V2 A5 Left Front Sill Y Velocity

Max: 25.2 [kph] at 0.017 [s]

Min: -0.0 [kph] at -0.013 [s]

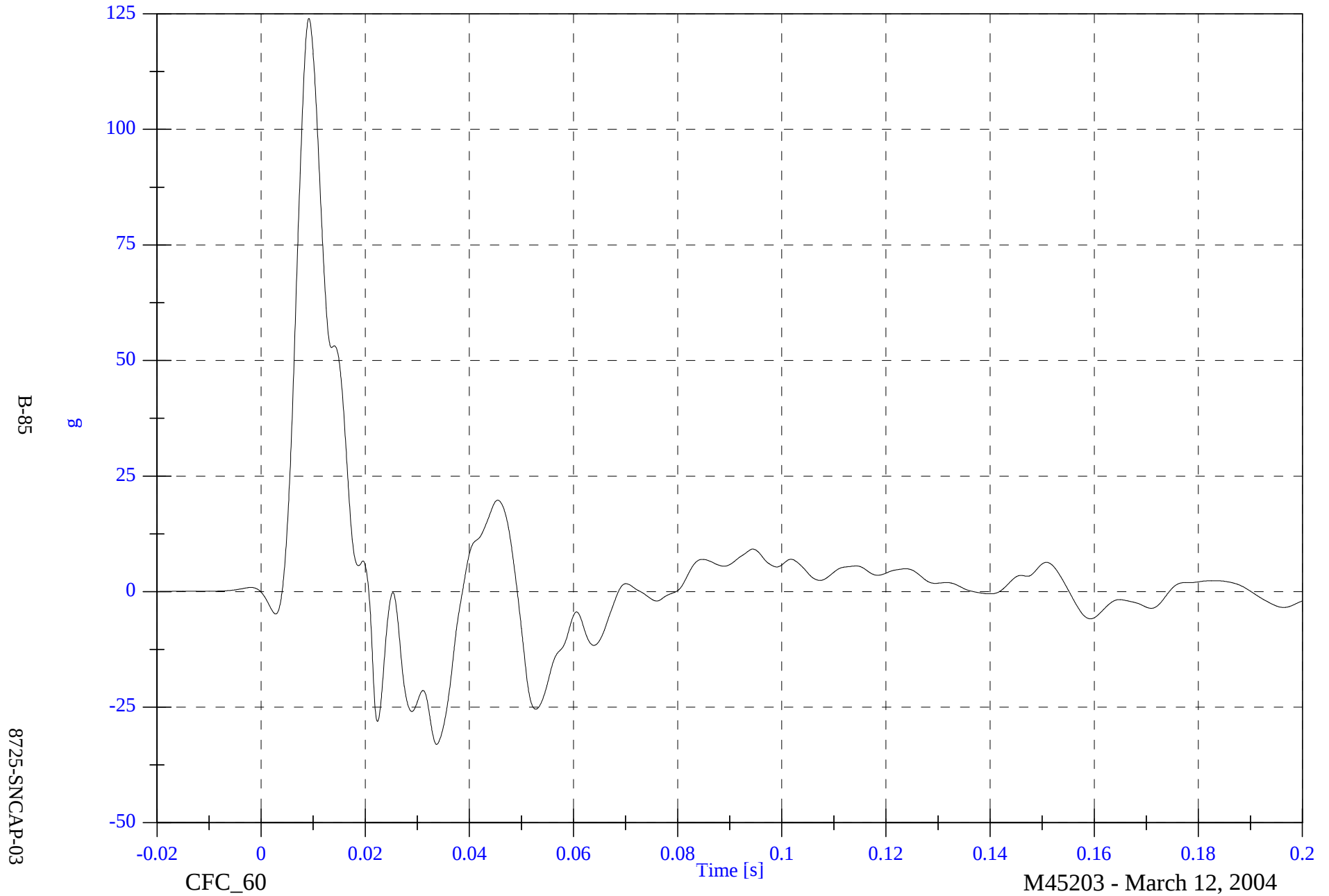


2004 SNCAP Test 3 2004 Infinity FX35/45

V2 A6 Left Front Door C/L Y

Max: 124.0 [g] at 0.009 [s]

Min: -33.1 [g] at 0.034 [s]



2004 SNCAP Test 3 2004 Infinity FX35/45

V2 A6 Left Front Door C/L Y Velocity

Max: 33.9 [kph] at 0.021 [s]

Min: -0.0 [kph] at 0.006 [s]

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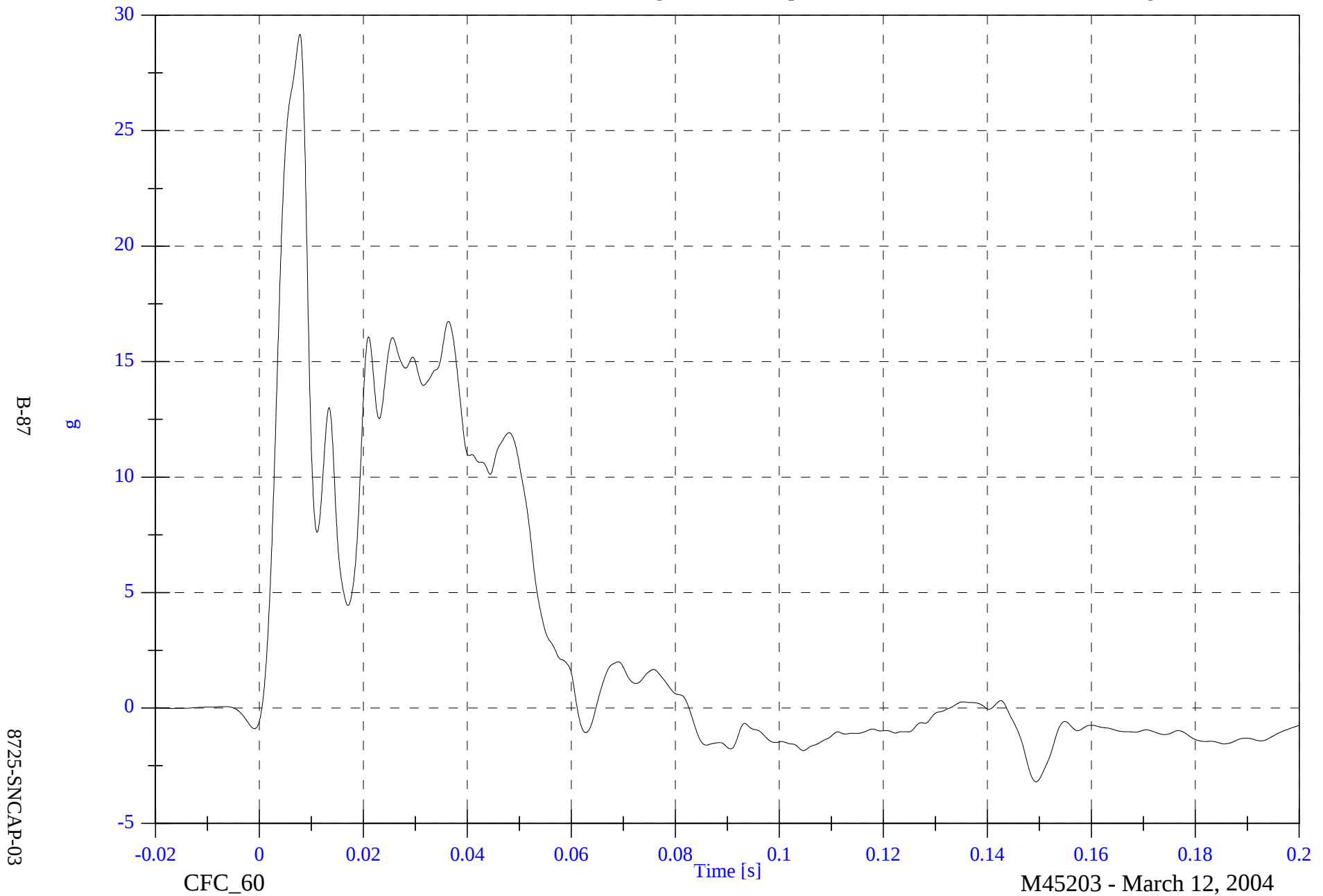


2004 SNCAP Test 3 2004 Infinity FX35/45

V2 A7 Right Rear Compartment Y

Max: 29.2 [g] at 0.008 [s]

Min: -3.2 [g] at 0.149 [s]

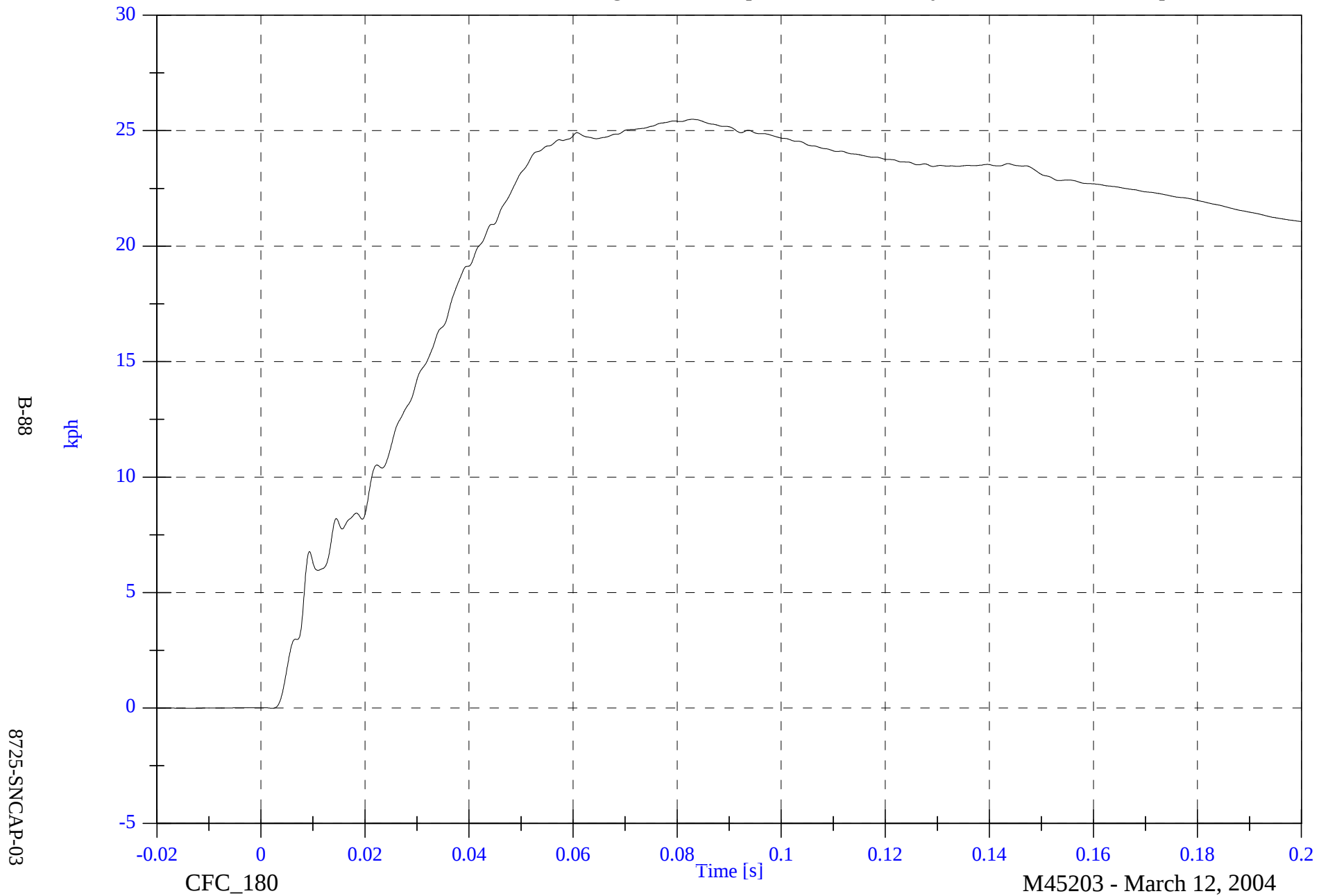


2004 SNCAP Test 3 2004 Infinity FX35/45

V2 A7 Right Rear Compartment Y Velocity

Max: 25.5 [kph] at 0.083 [s]

Min: -0.0 [kph] at 0.002 [s]

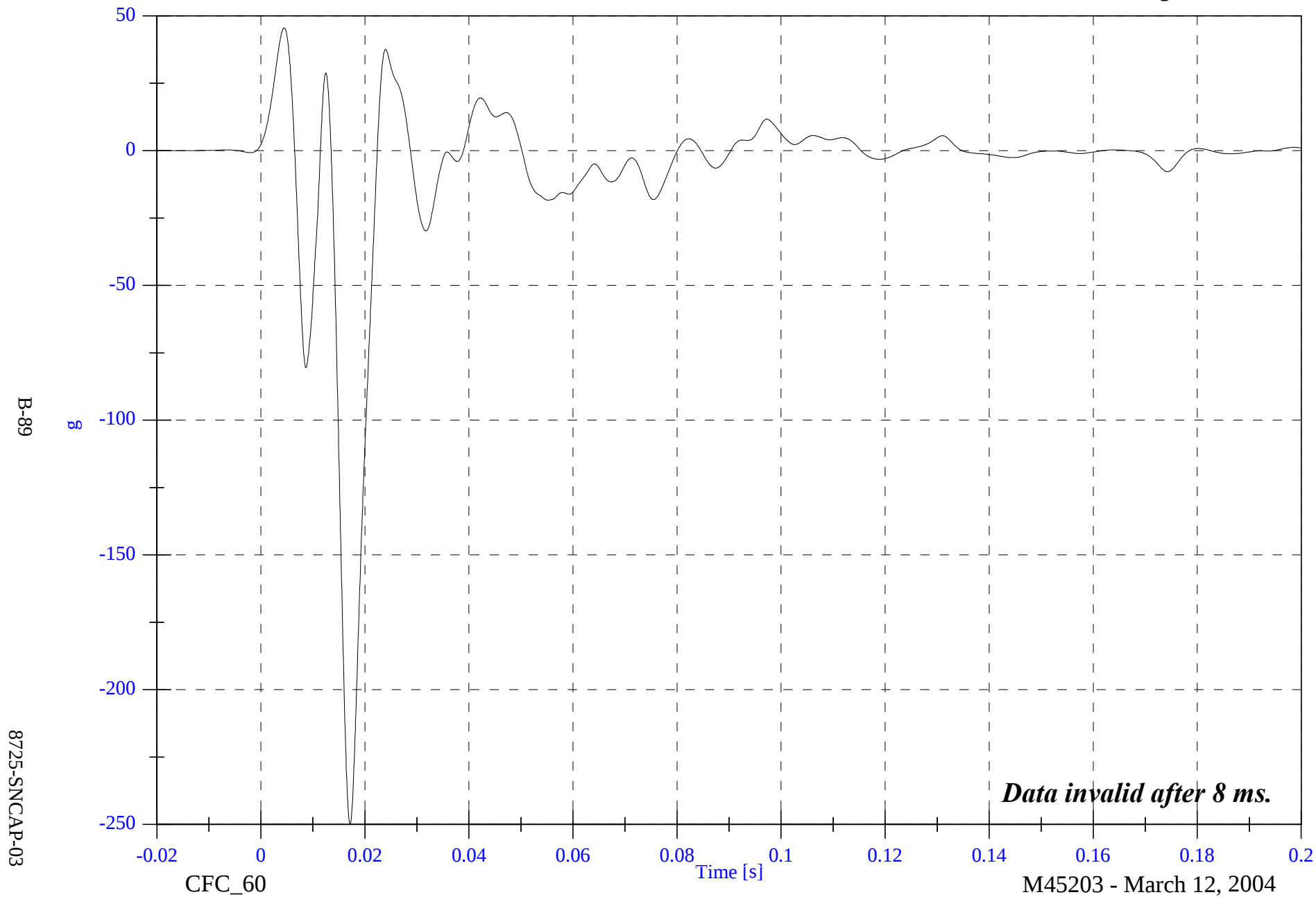


2004 SNCAP Test 3 2004 Infinity FX35/45

V2 A8 Left Front Door Midrear Y

Max: 45.6 [g] at 0.004 [s]

Min: -249.9 [g] at 0.017 [s]

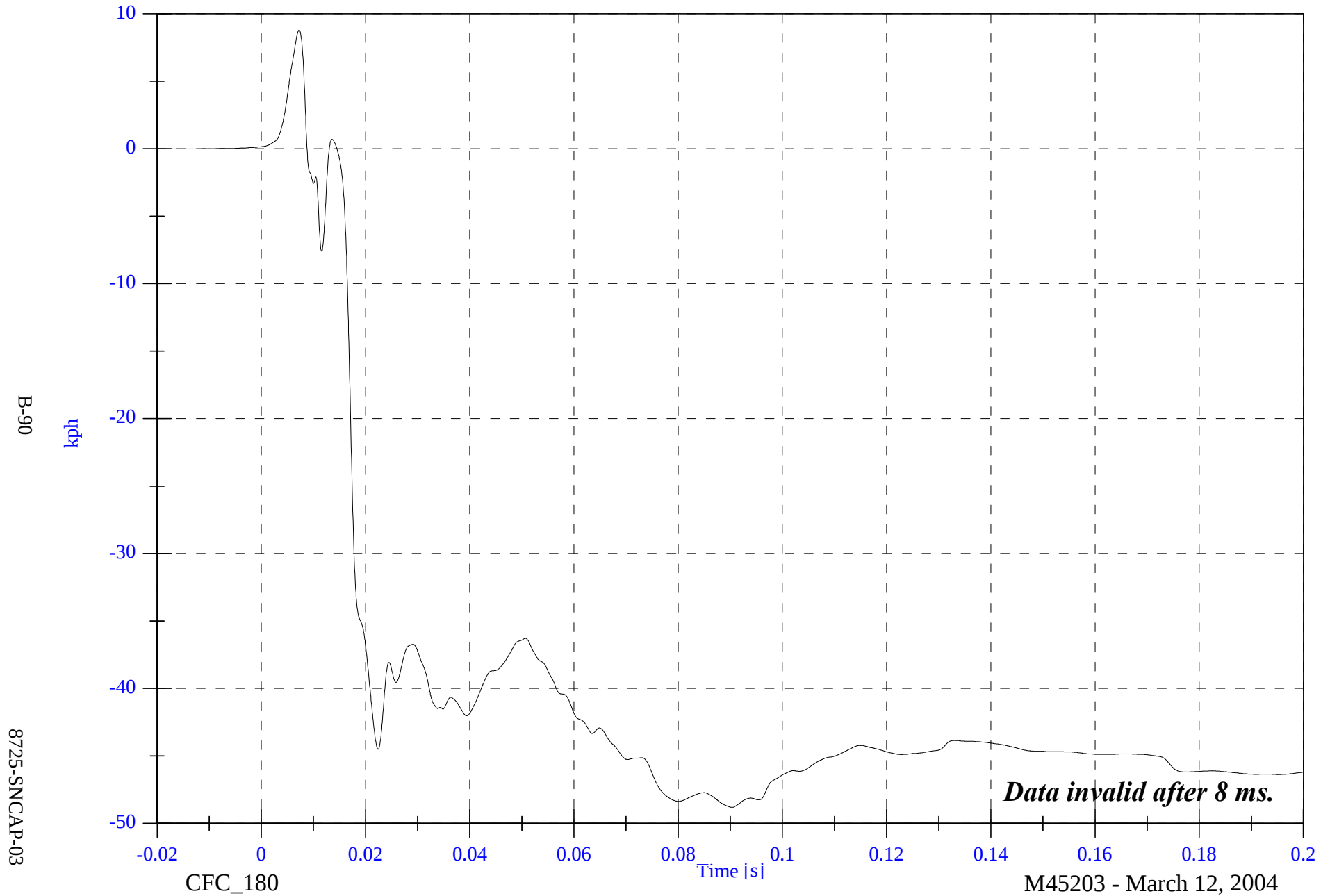


2004 SNCAP Test 3 2004 Infinity FX35/45

V2 A8 Left Front Door Midrear Y Velocity

Max: 8.8 [kph] at 0.007 [s]

Min: -48.8 [kph] at 0.090 [s]

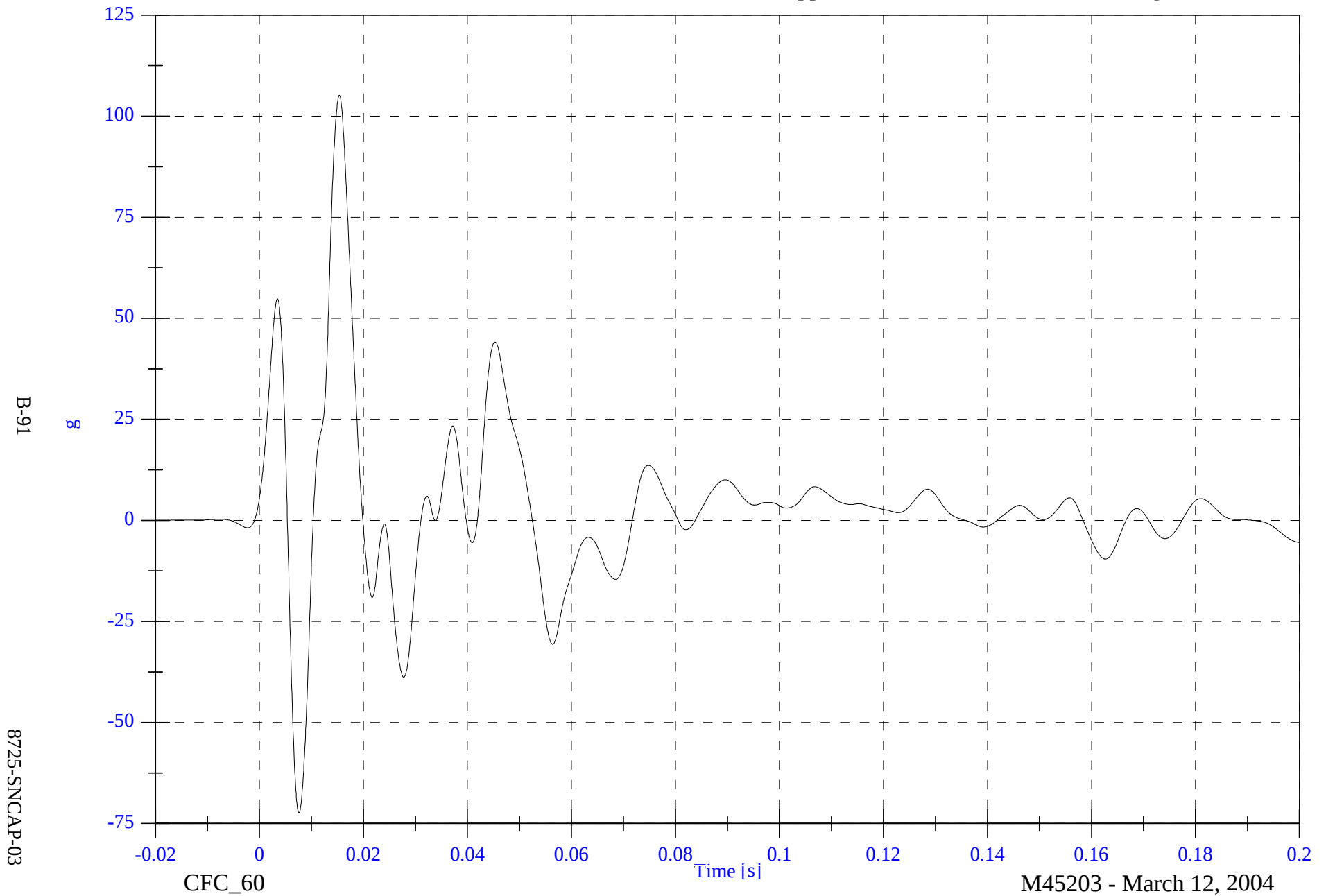


2004 SNCAP Test 3 2004 Infinity FX35/45

V2 A9 Left Front Door Upper C/L Y

Max: 105.2 [g] at 0.015 [s]

Min: -72.4 [g] at 0.008 [s]

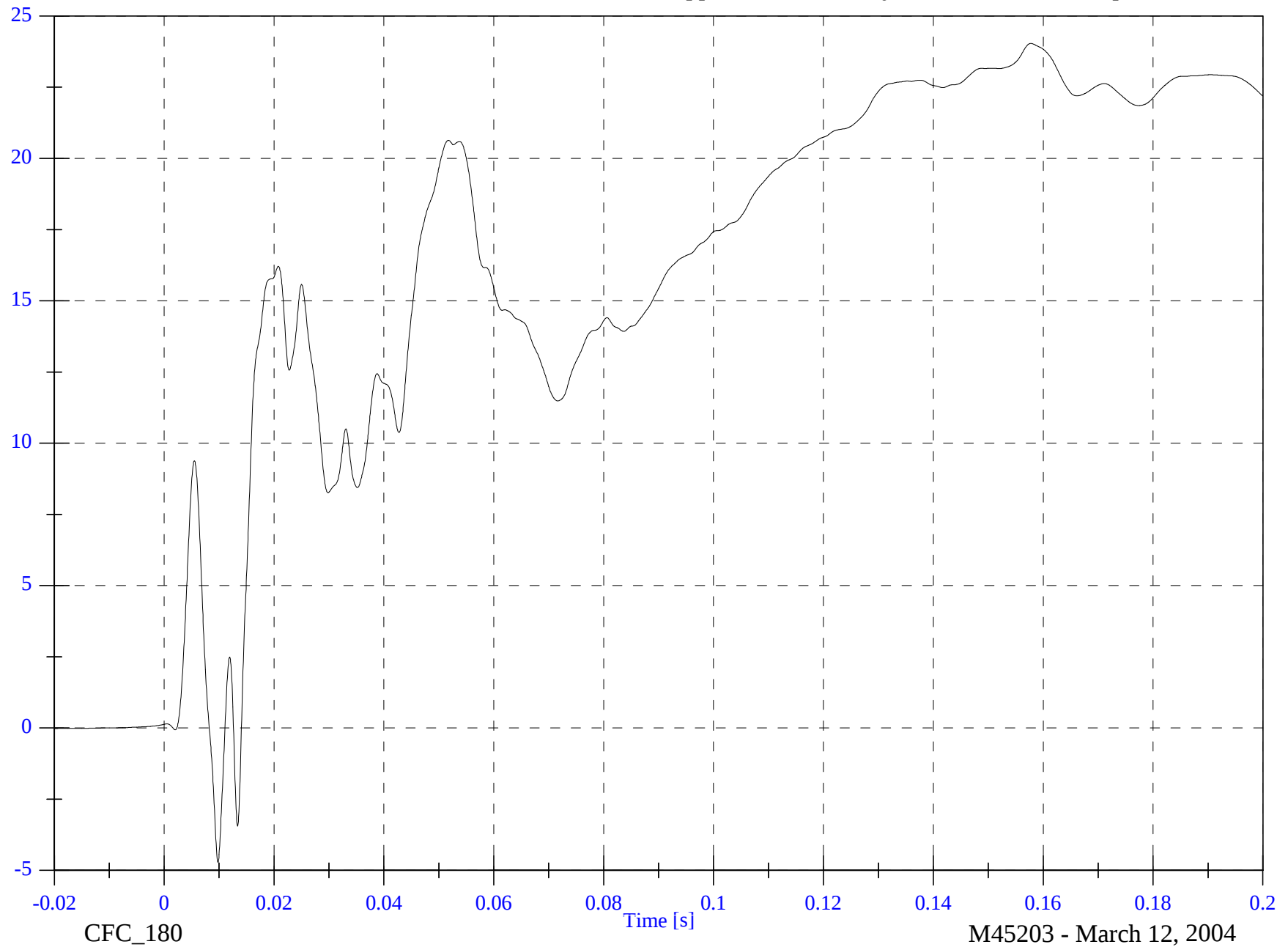


2004 SNCAP Test 3 2004 Infinity FX35/45

V2 A9 Left Front Door Upper C/L Y Velocity

Max: 24.0 [kph] at 0.158 [s]

Min: -4.7 [kph] at 0.010 [s]



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8725-SNCAP-03

CFC_180

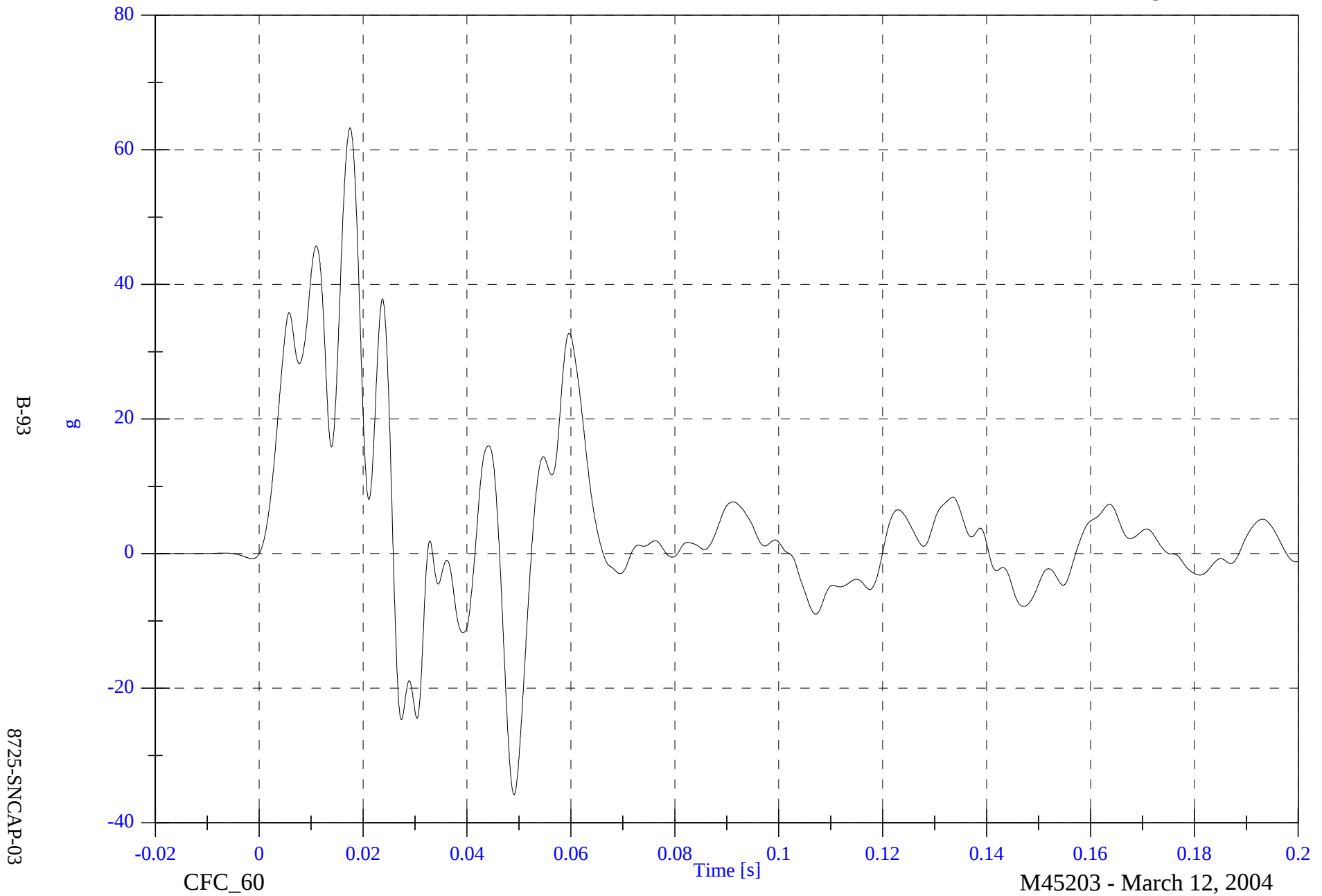
M45203 - March 12, 2004

2004 SNCAP Test 3 2004 Infinity FX35/45

V2 A10 Left Rear Door Midrear Y

Max: 63.3 [g] at 0.018 [s]

Min: -35.8 [g] at 0.049 [s]

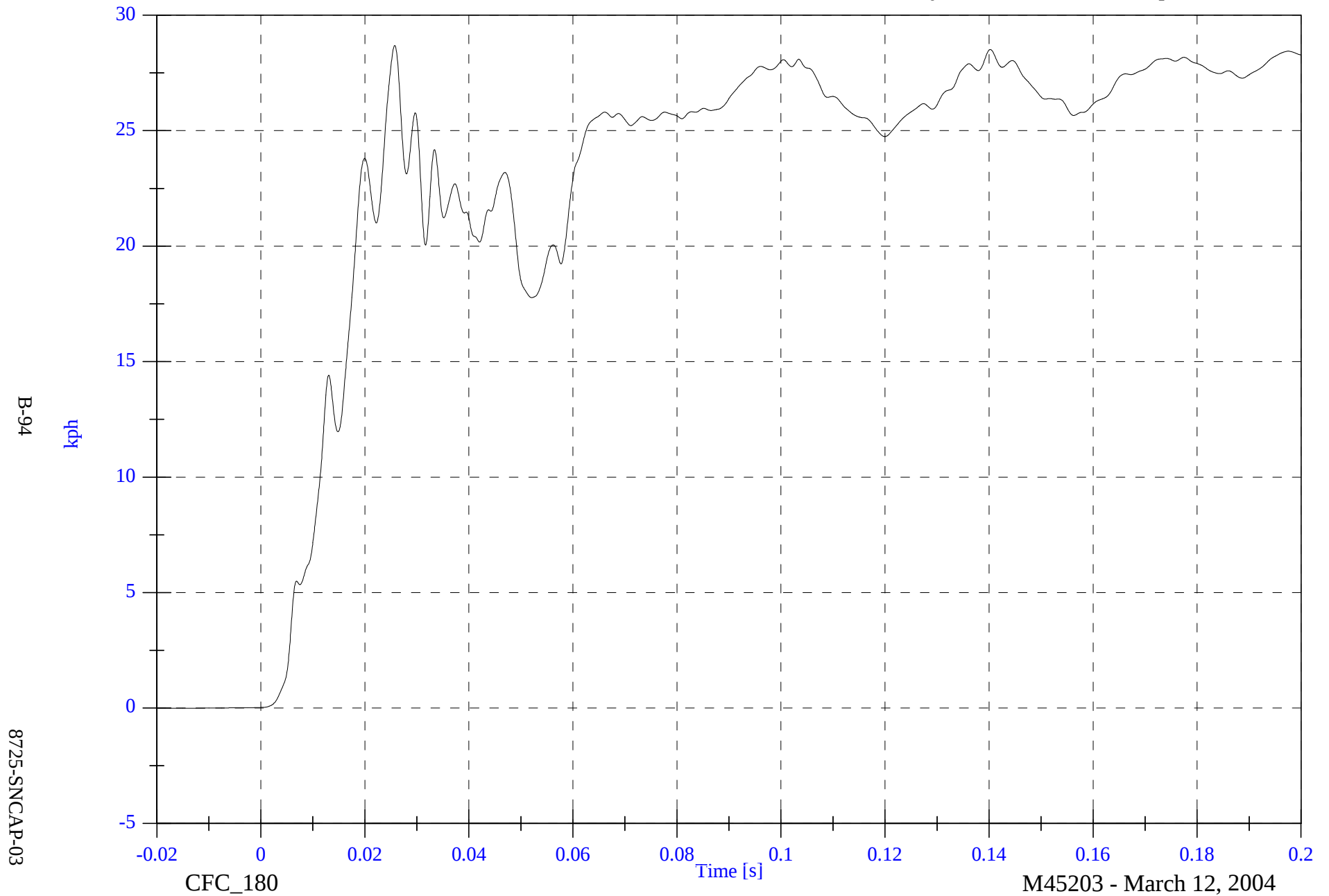


2004 SNCAP Test 3 2004 Infinity FX35/45

V2 A10 Left Rear Door Midrear Y Velocity

Max: 28.7 [kph] at 0.026 [s]

Min: -0.0 [kph] at -0.018 [s]

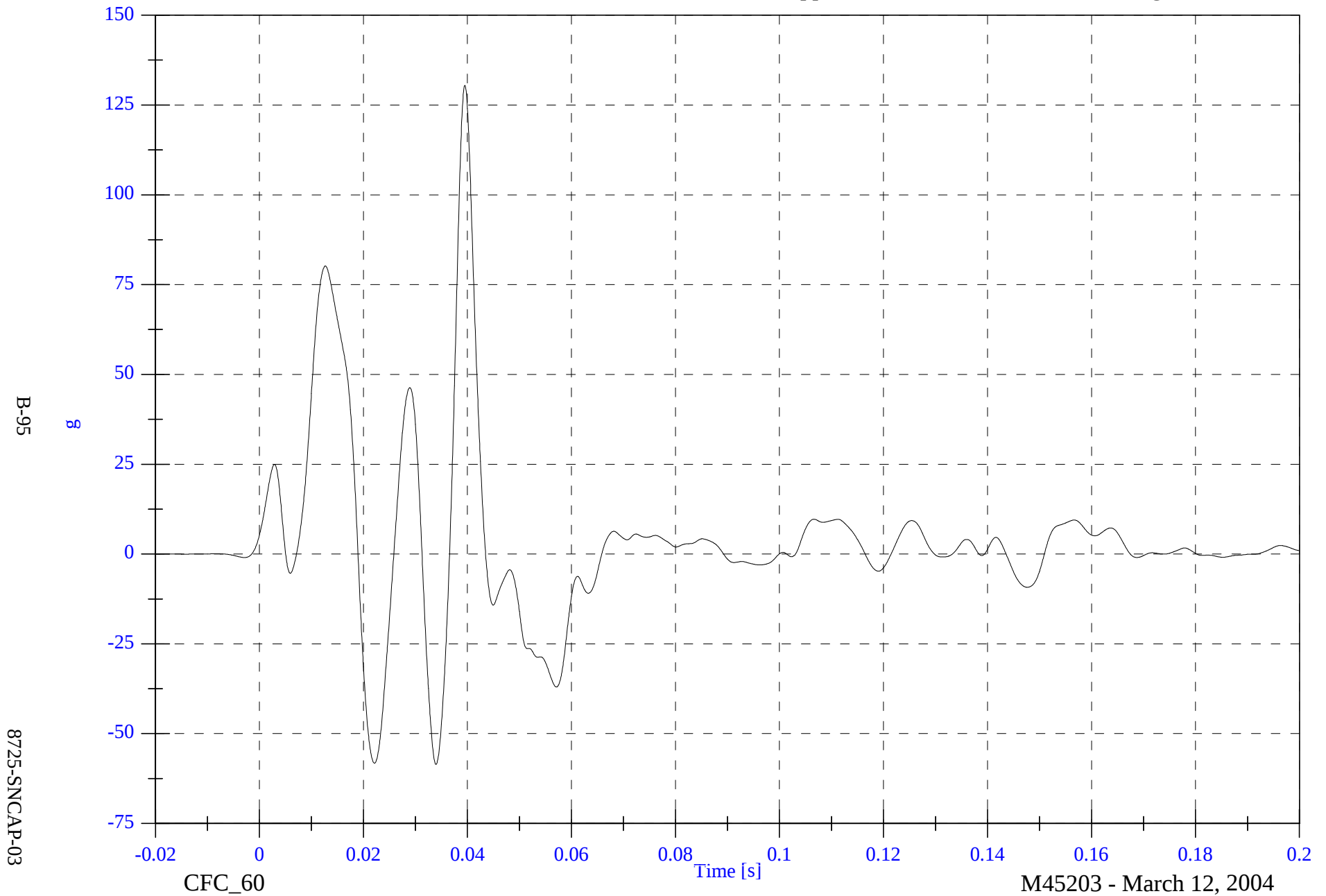


2004 SNCAP Test 3 2004 Infinity FX35/45

V2 A11 Left Rear Door Upper C/L Y

Max: 130.5 [g] at 0.039 [s]

Min: -58.6 [g] at 0.034 [s]



2004 SNCAP Test 3 2004 Infinity FX35/45

V2 A11 Left Rear Door Upper C/L Y Velocity

Max: 29.7 [kph] at 0.043 [s]

Min: -0.0 [kph] at 0.001 [s]

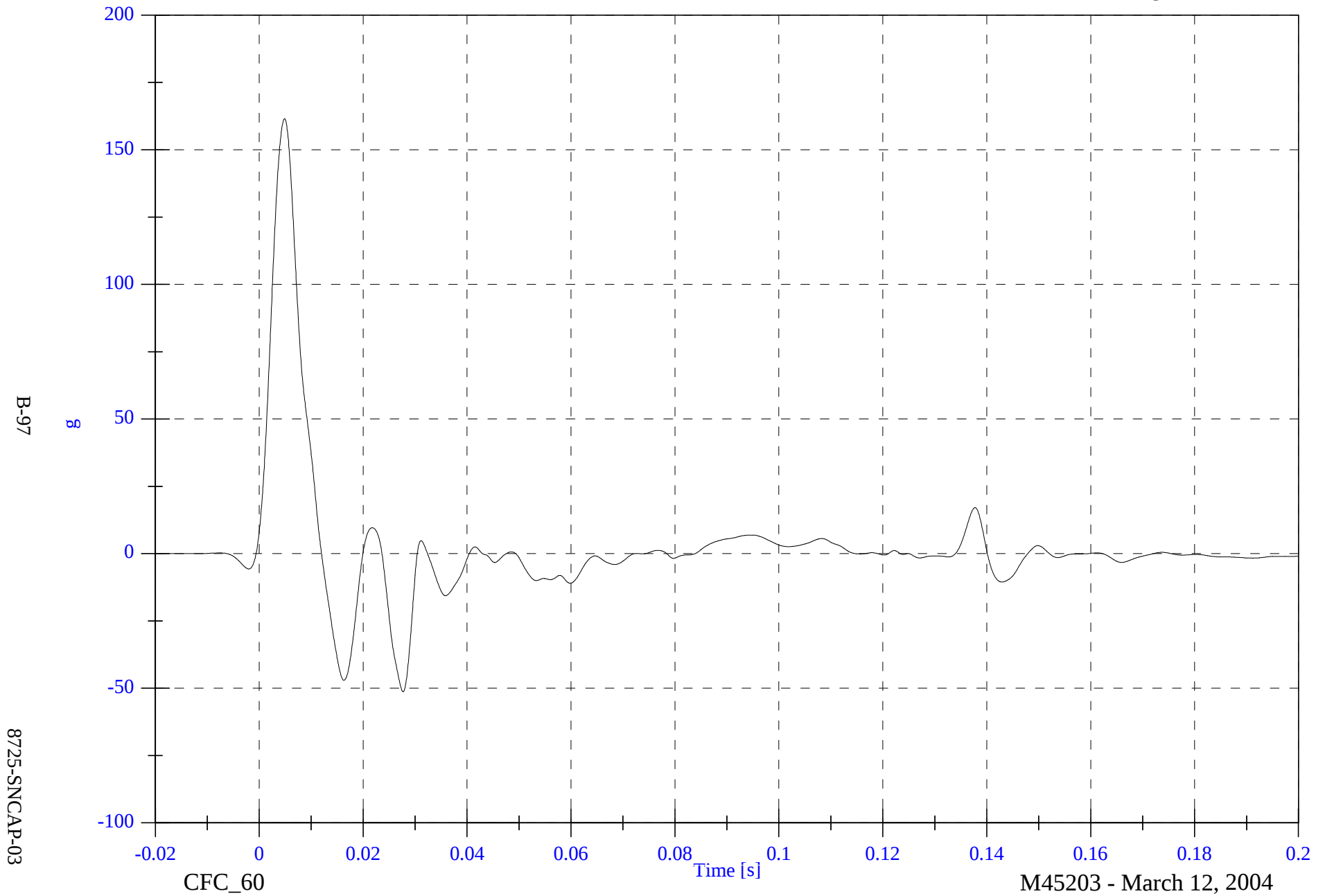


2004 SNCAP Test 3 2004 Infinity FX35/45

V2 A12 Left Lower B Post Y

Max: 161.5 [g] at 0.005 [s]

Min: -51.3 [g] at 0.028 [s]



2004 SNCAP Test 3 2004 Infinity FX35/45

V2 A12 Left Lower B Post Y Velocity

Max: 34.6 [kph] at 0.011 [s]

Min: -0.1 [kph] at 0.001 [s]

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kph

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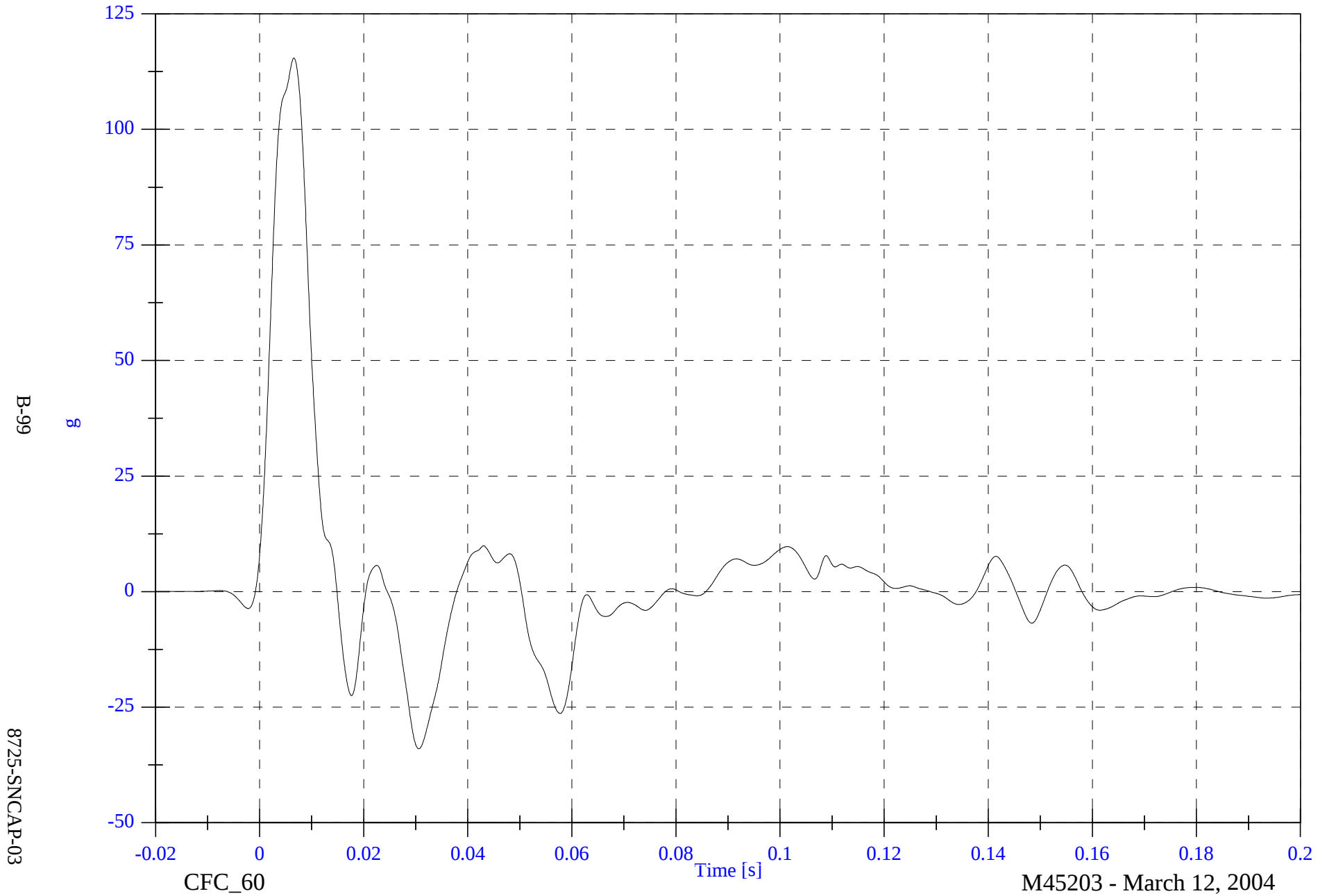


2004 SNCAP Test 3 2004 Infinity FX35/45

V2 A13 Left Mid B Post Y

Max: 115.4 [g] at 0.007 [s]

Min: -34.0 [g] at 0.031 [s]

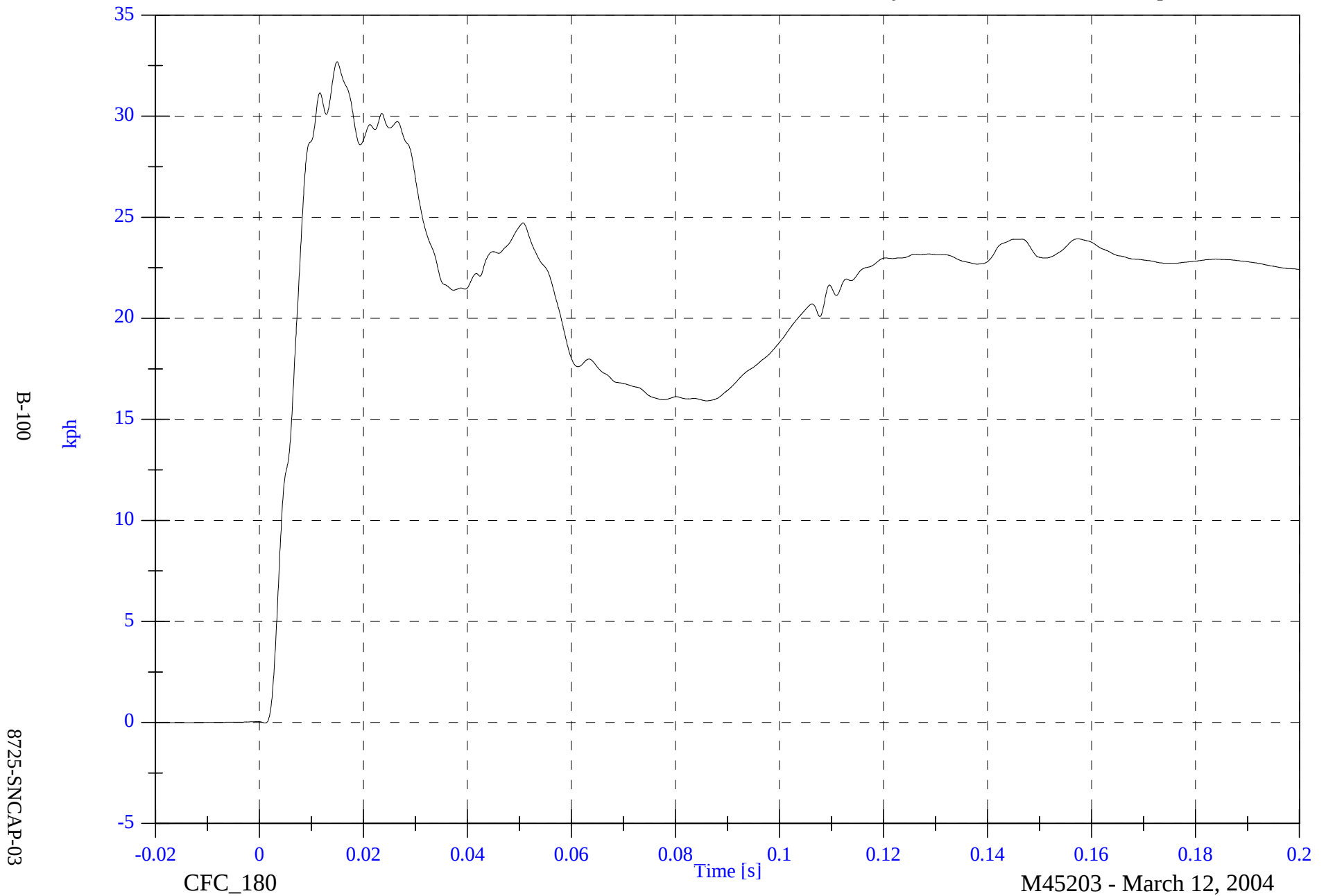


2004 SNCAP Test 3 2004 Infinity FX35/45

V2 A13 Left Mid B Post Y Velocity

Max: 32.7 [kph] at 0.015 [s]

Min: -0.0 [kph] at 0.001 [s]

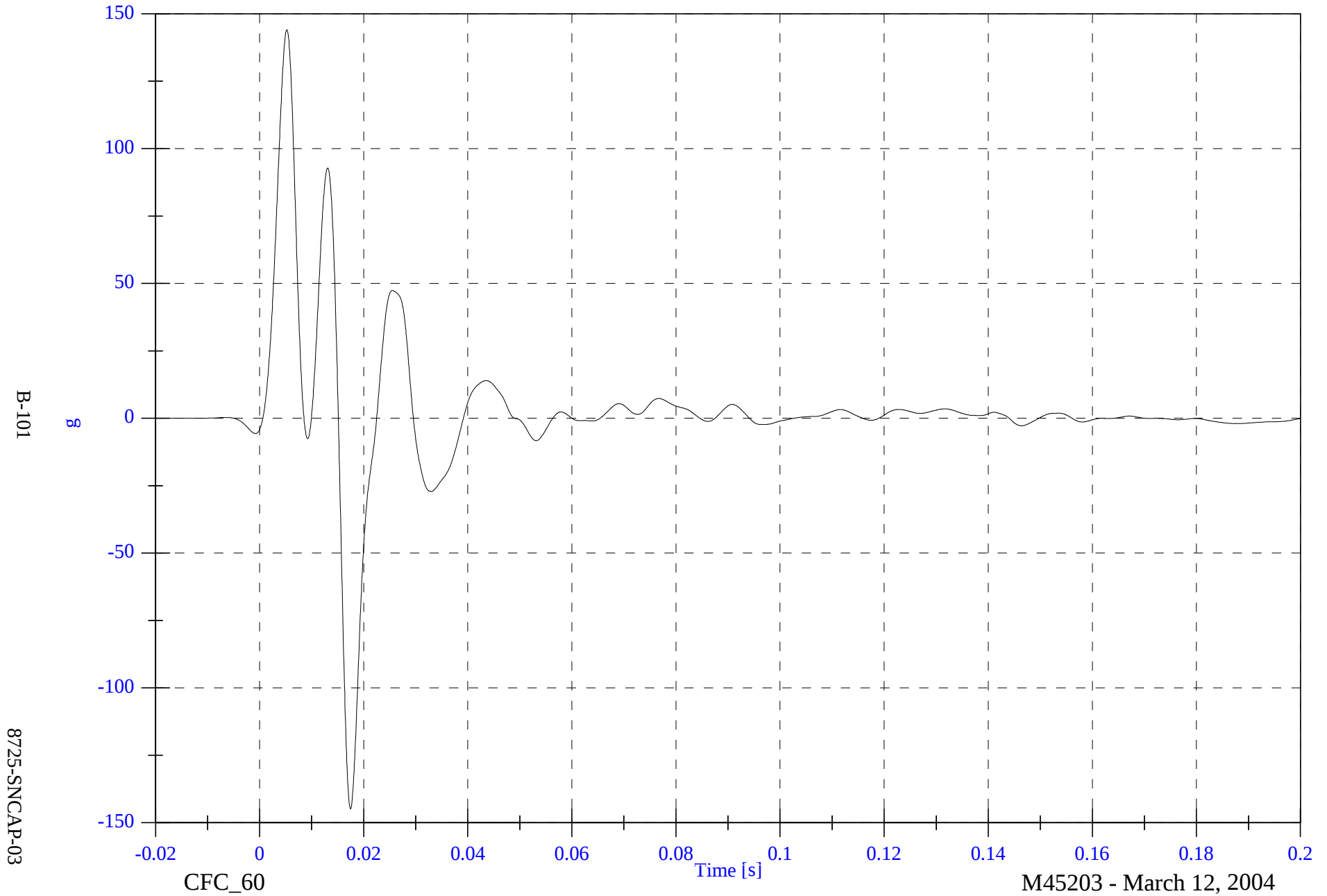


2004 SNCAP Test 3 2004 Infinity FX35/45

V2 A14 Left Lower A Post Y

Max: 144.1 [g] at 0.005 [s]

Min: -144.9 [g] at 0.017 [s]



2004 SNCAP Test 3 2004 Infinity FX35/45

V2 A14 Left Lower A Post Y Velocity

Max: 33.6 [kph] at 0.016 [s]

Min: -0.0 [kph] at 0.002 [s]



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8725-SNCAP-03

CFC_180

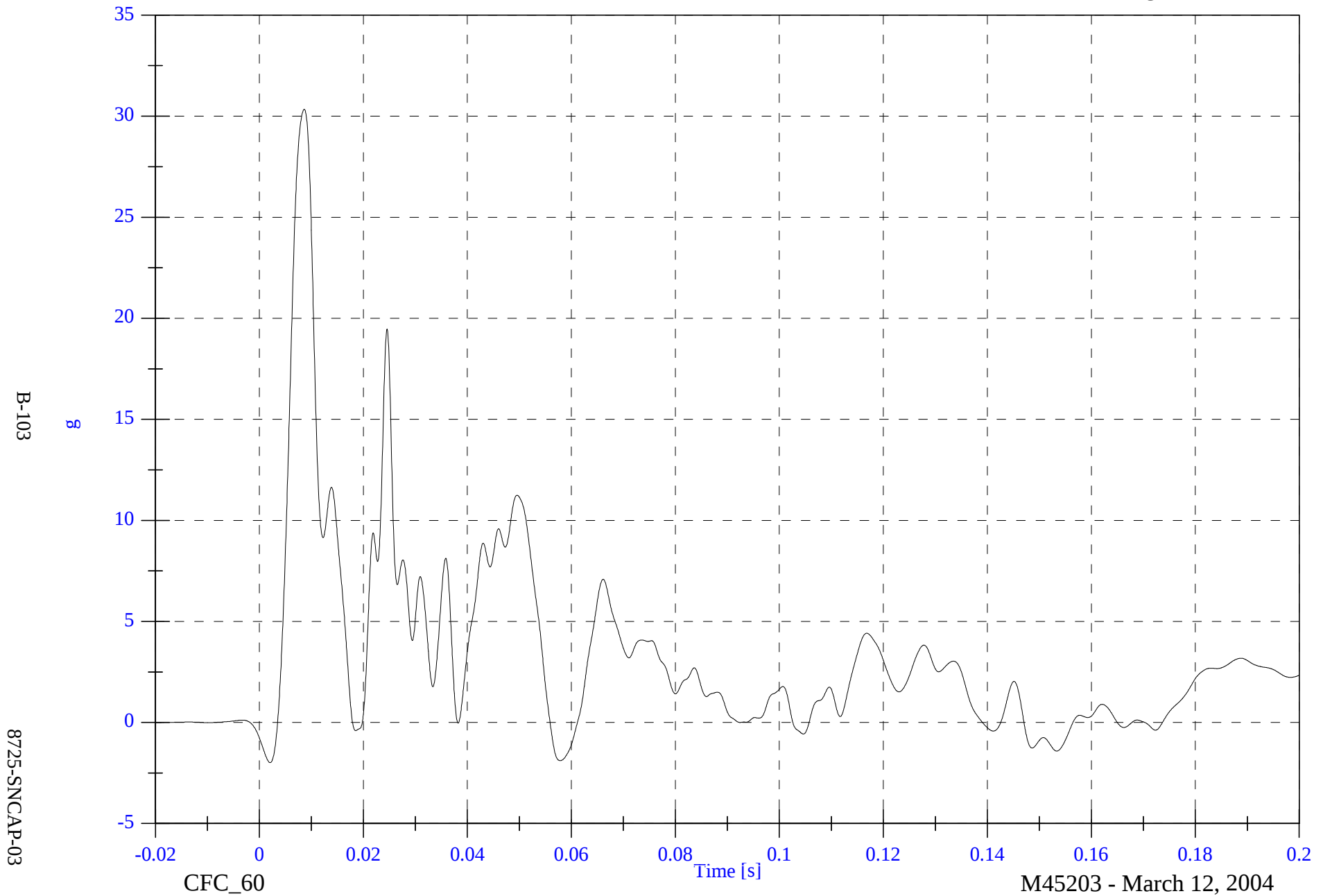
M45203 - March 12, 2004

2004 SNCAP Test 3 2004 Infinity FX35/45

V2 A15 Left Mid A Post Y

Max: 30.3 [g] at 0.009 [s]

Min: -2.0 [g] at 0.002 [s]

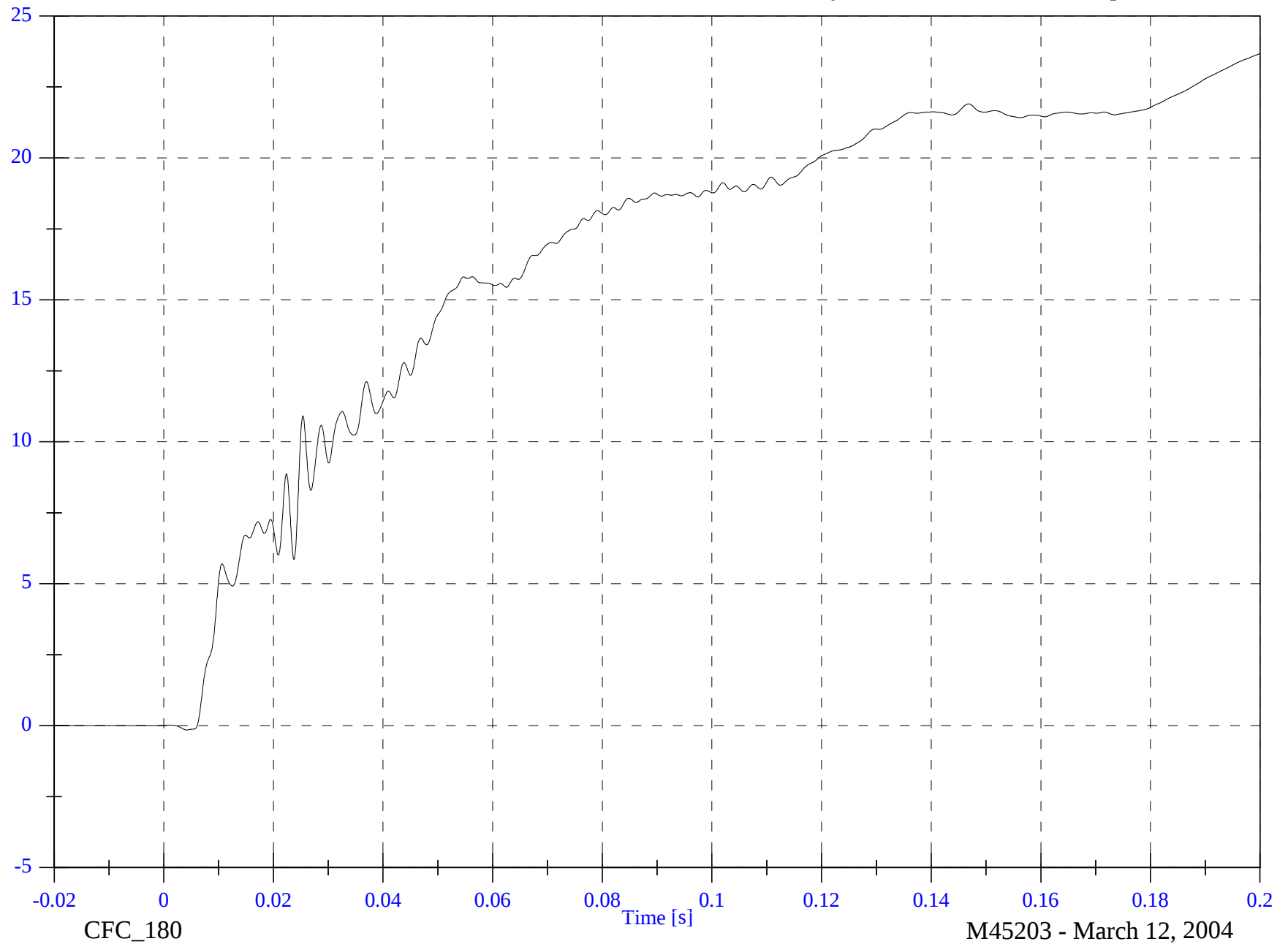


2004 SNCAP Test 3 2004 Infinity FX35/45

V2 A15 Left Mid A Post Y Velocity

Max: 23.7 [kph] at 0.200 [s]

Min: -0.2 [kph] at 0.004 [s]



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8725-SNCAP-03

CFC_180

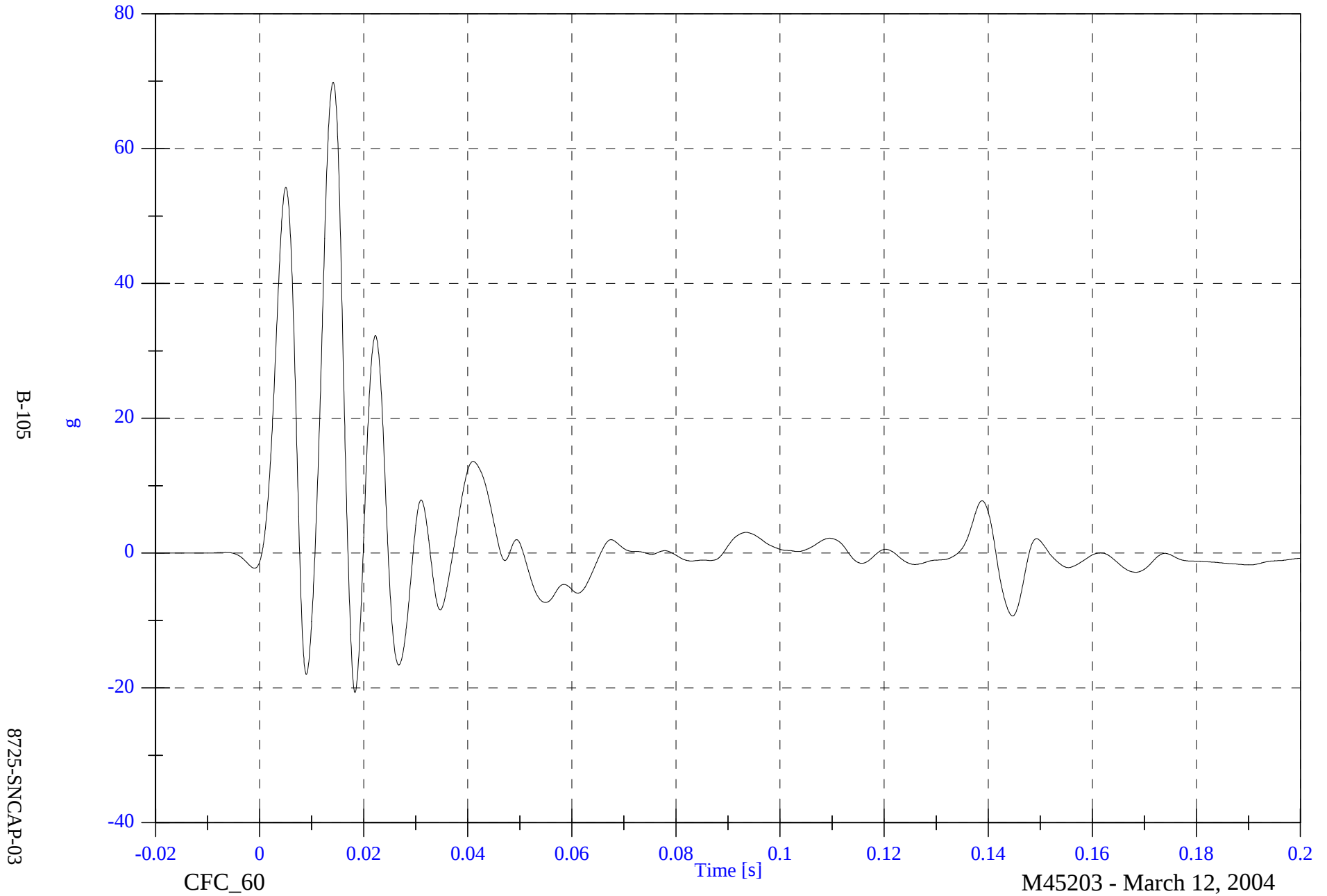
M45203 - March 12, 2004

2004 SNCAP Test 3 2004 Infinity FX35/45

V2 A16 Front Seat Track Y

Max: 69.8 [g] at 0.014 [s]

Min: -20.7 [g] at 0.018 [s]

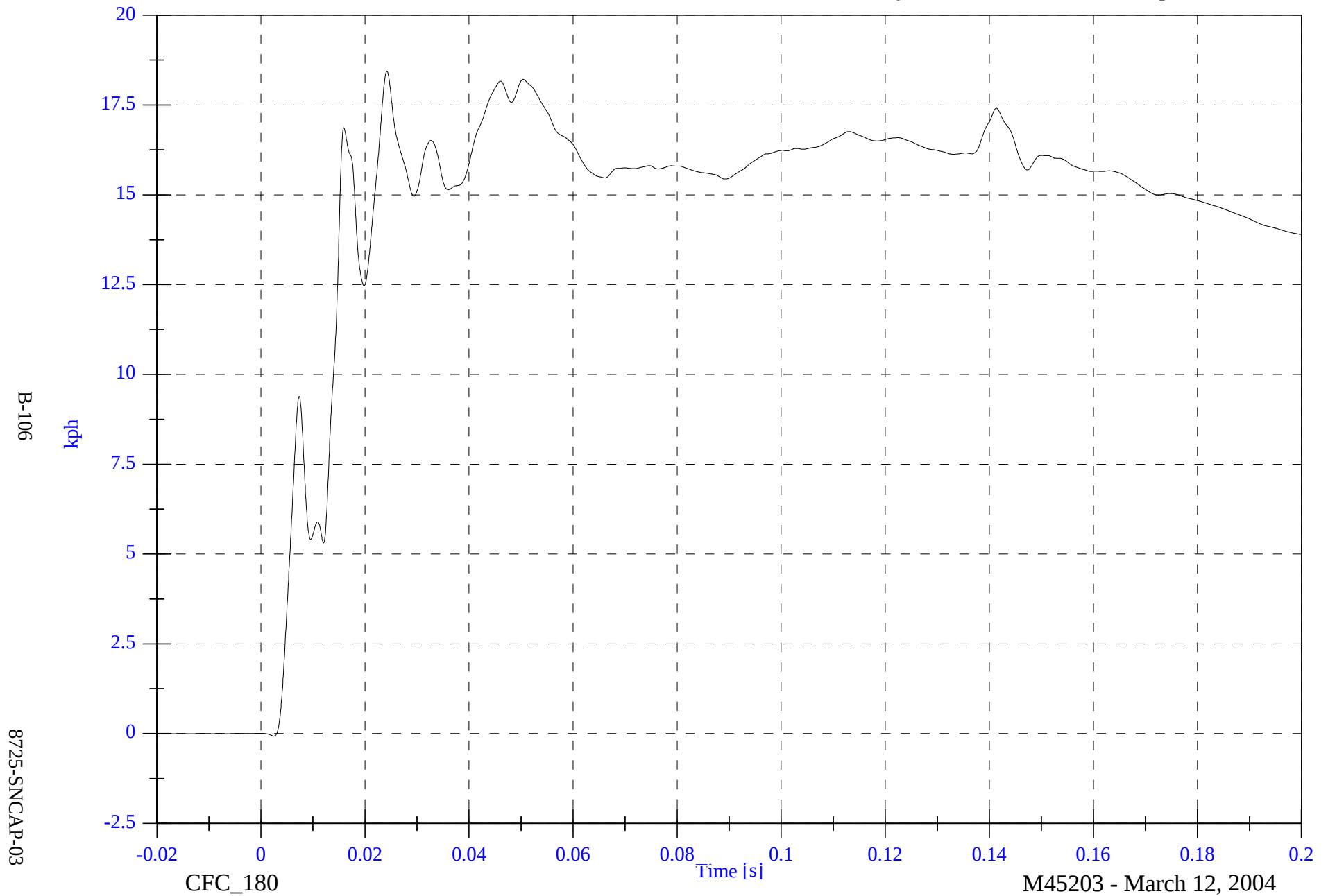


2004 SNCAP Test 3 2004 Infinity FX35/45

V2 A16 Front Seat Track Y Velocity

Max: 18.4 [kph] at 0.024 [s]

Min: -0.1 [kph] at 0.002 [s]

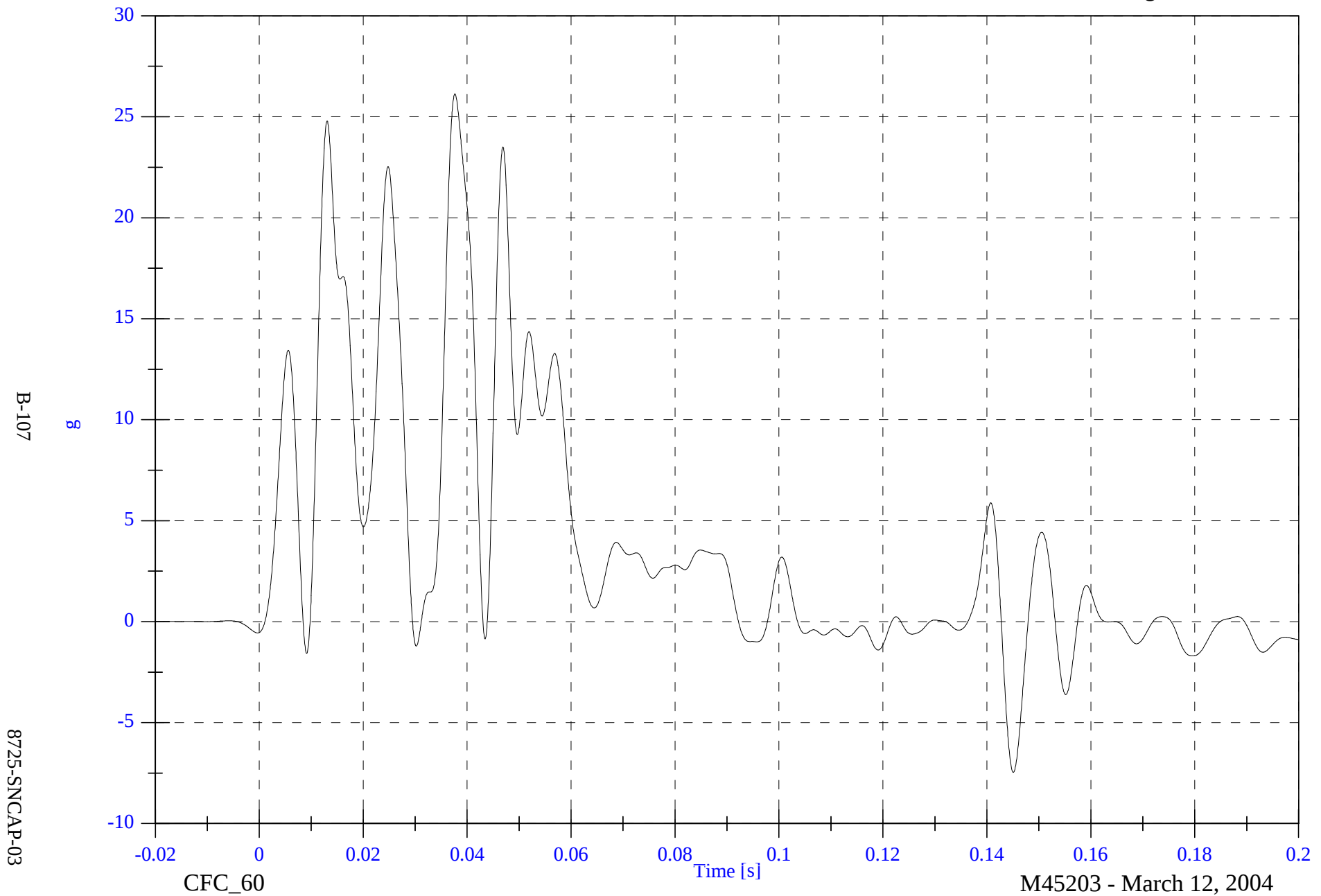


2004 SNCAP Test 3 2004 Infinity FX35/45

V2 A17 Rear Seat Track Y

Max: 26.1 [g] at 0.038 [s]

Min: -7.5 [g] at 0.145 [s]

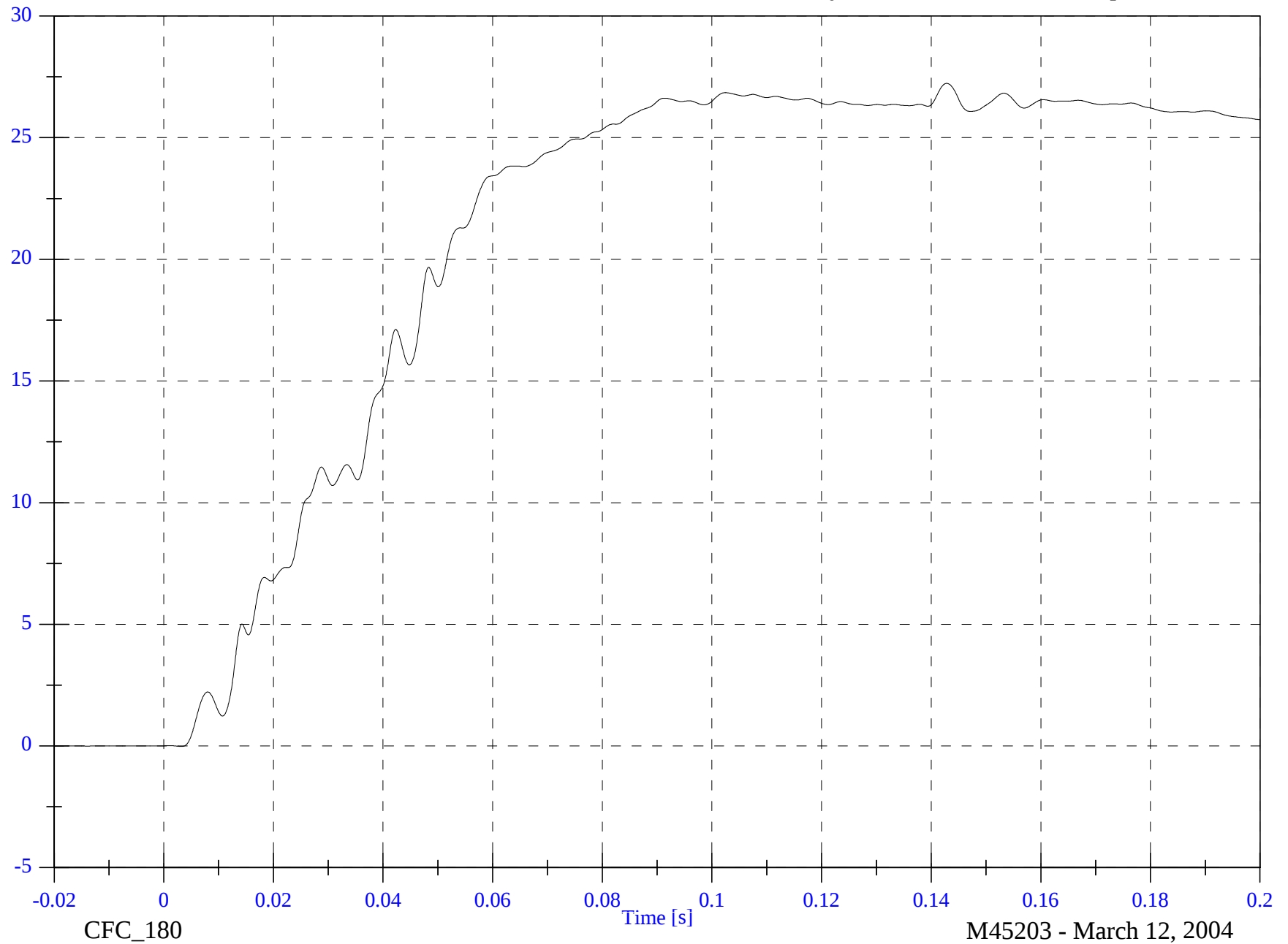


2004 SNCAP Test 3 2004 Infinity FX35/45

V2 A17 Rear Seat Track Y Velocity

Max: 27.2 [kph] at 0.143 [s]

Min: -0.0 [kph] at 0.003 [s]



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8725-SNCAP-03

CFC_180

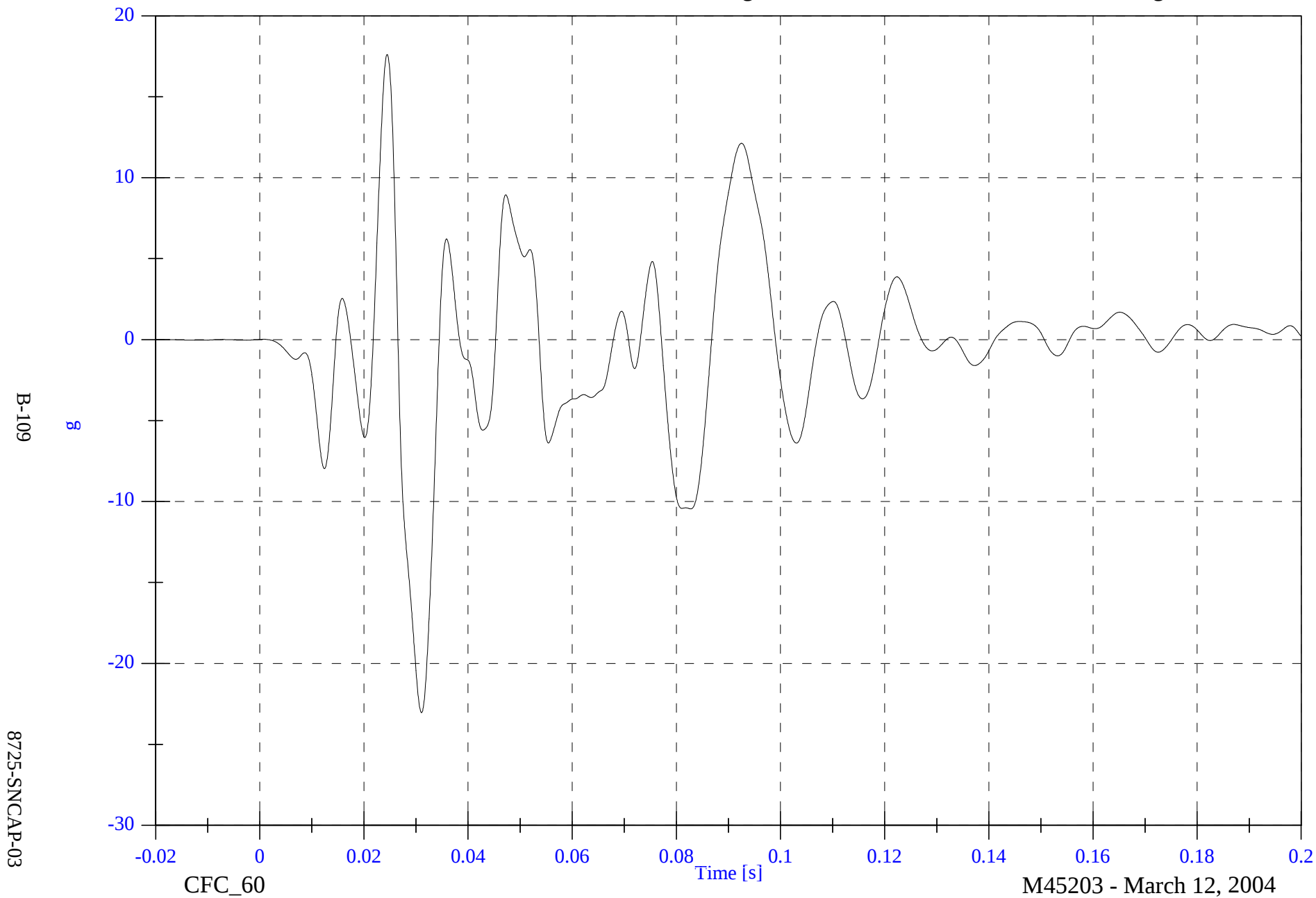
M45203 - March 12, 2004

2004 SNCAP Test 3 2004 Infinity FX35/45

V2 A18 Target CG X

Max: 17.6 [g] at 0.024 [s]

Min: -23.0 [g] at 0.031 [s]

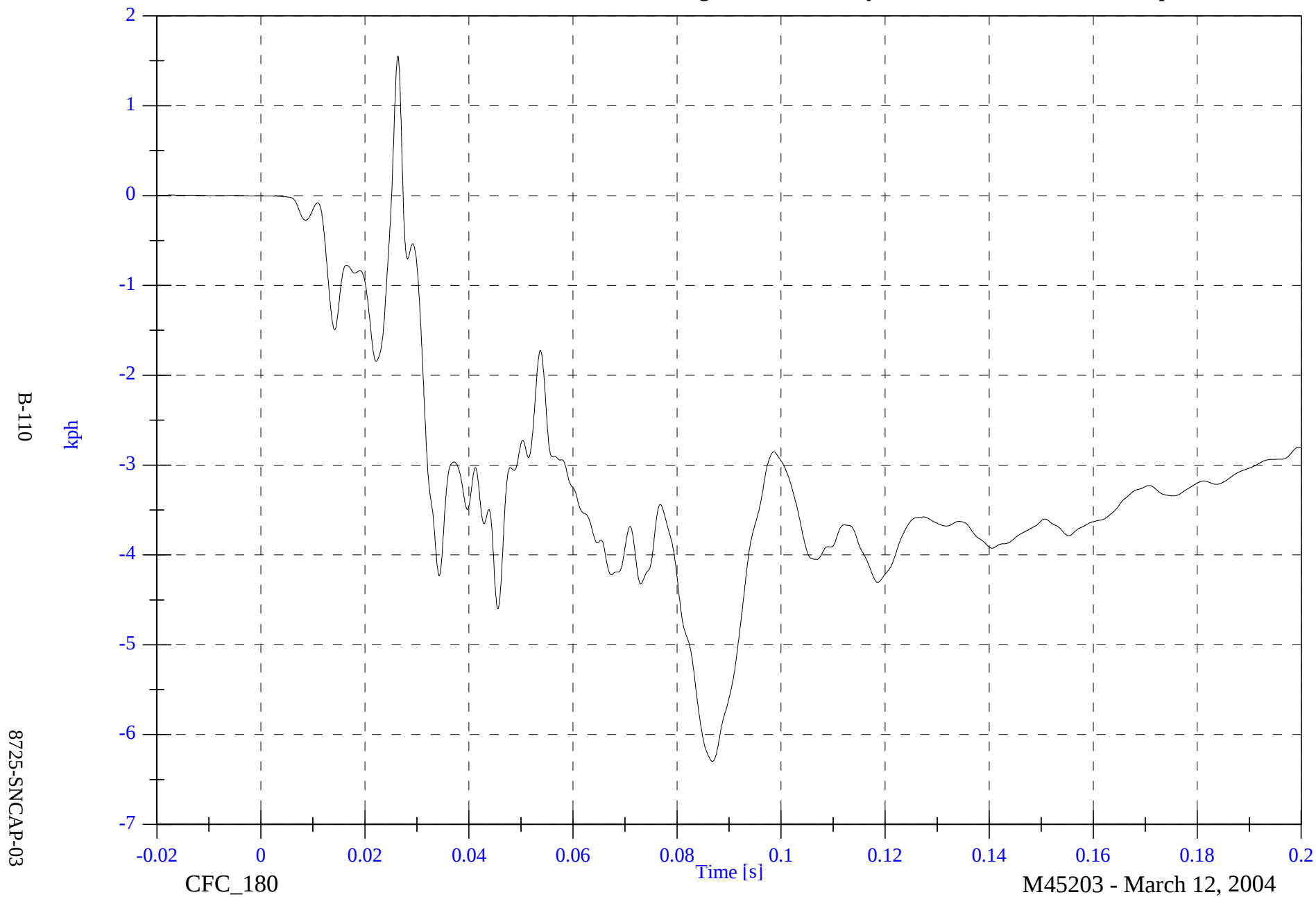


2004 SNCAP Test 3 2004 Infinity FX35/45

V2 A18 Target CG X Velocity

Max: 1.6 [kph] at 0.026 [s]

Min: -6.3 [kph] at 0.087 [s]

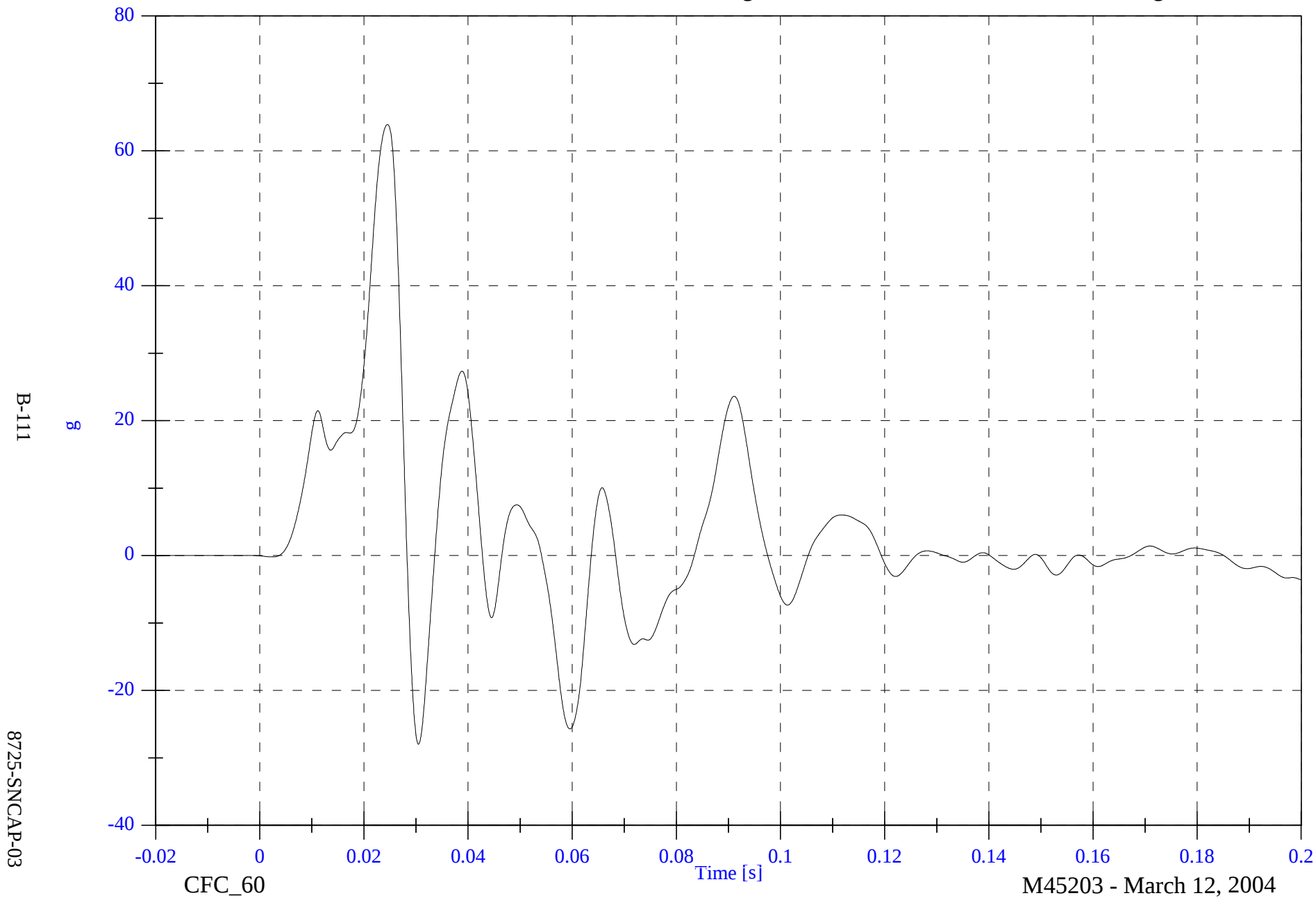


2004 SNCAP Test 3 2004 Infinity FX35/45

V2 A18 Target CG Y

Max: 63.9 [g] at 0.025 [s]

Min: -28.0 [g] at 0.030 [s]

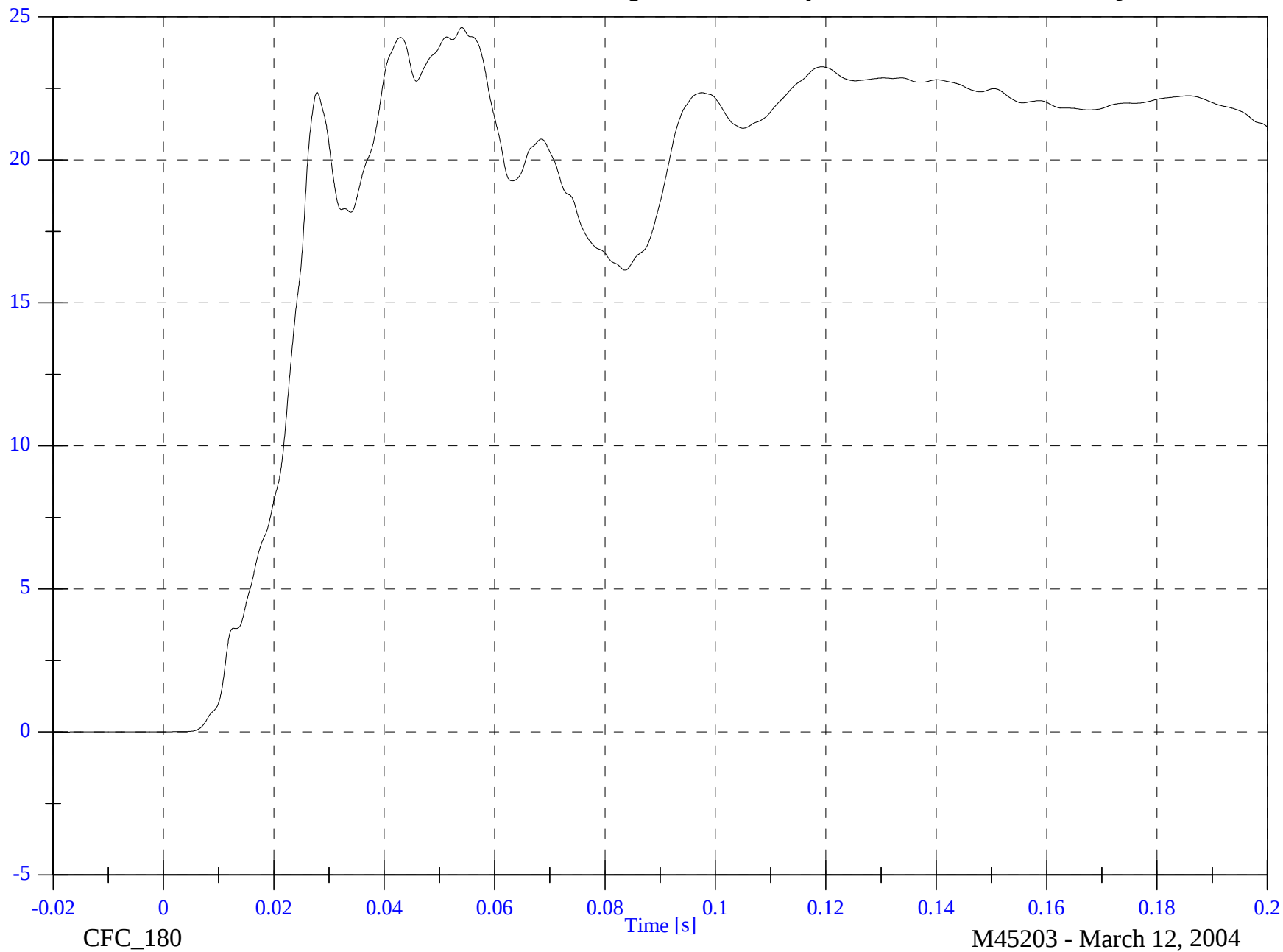


2004 SNCAP Test 3 2004 Infinity FX35/45

Max: 24.6 [kph] at 0.054 [s]

V2 A18 Target CG Y Velocity

Min: -0.0 [kph] at -0.019 [s]



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8725-SNCAP-03

CFC_180

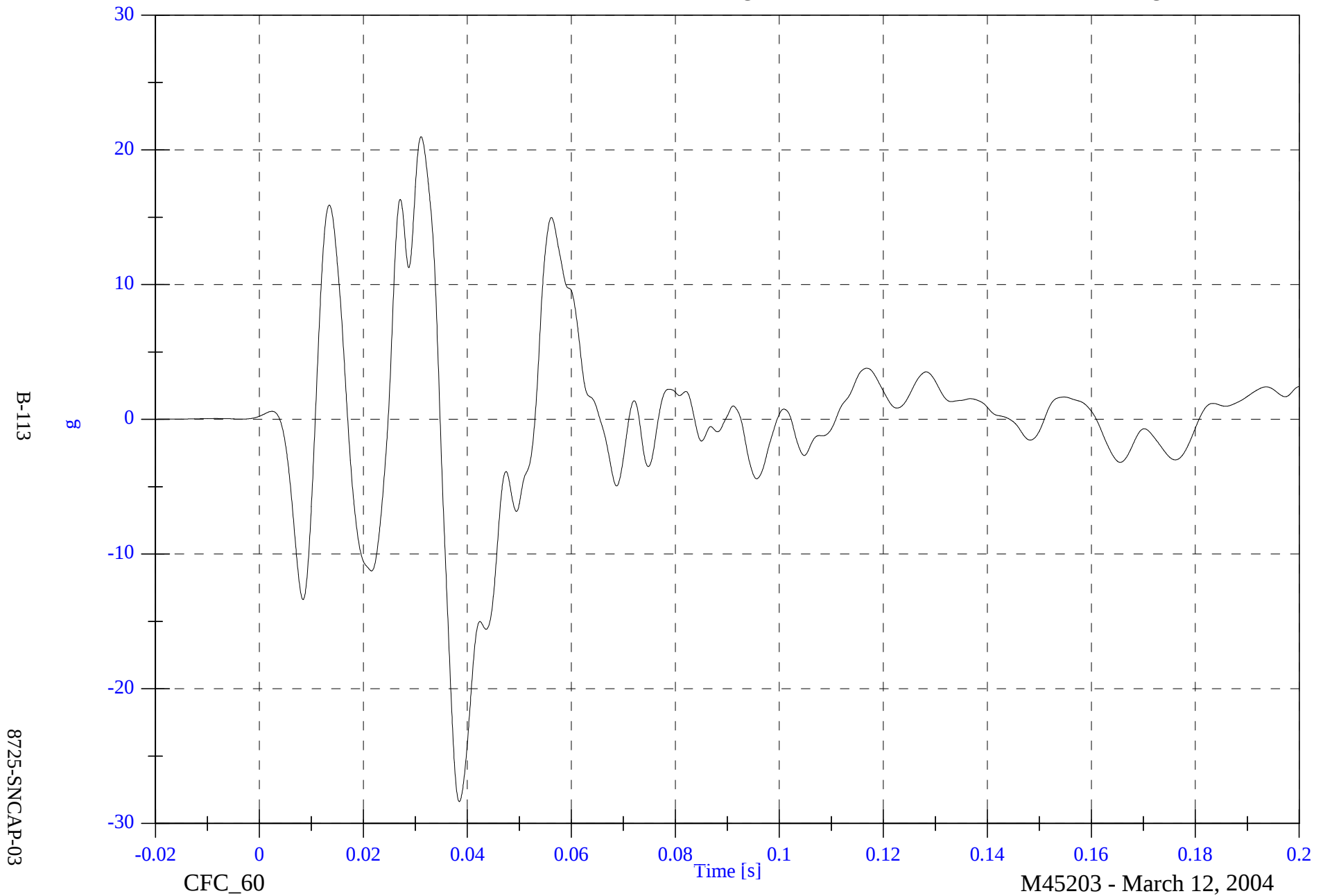
M45203 - March 12, 2004

2004 SNCAP Test 3 2004 Infinity FX35/45

V2 A18 Target CG Z

Max: 21.0 [g] at 0.031 [s]

Min: -28.4 [g] at 0.038 [s]



2004 SNCAP Test 3 2004 Infinity FX35/45

V2 A18 Target CG Z Velocity

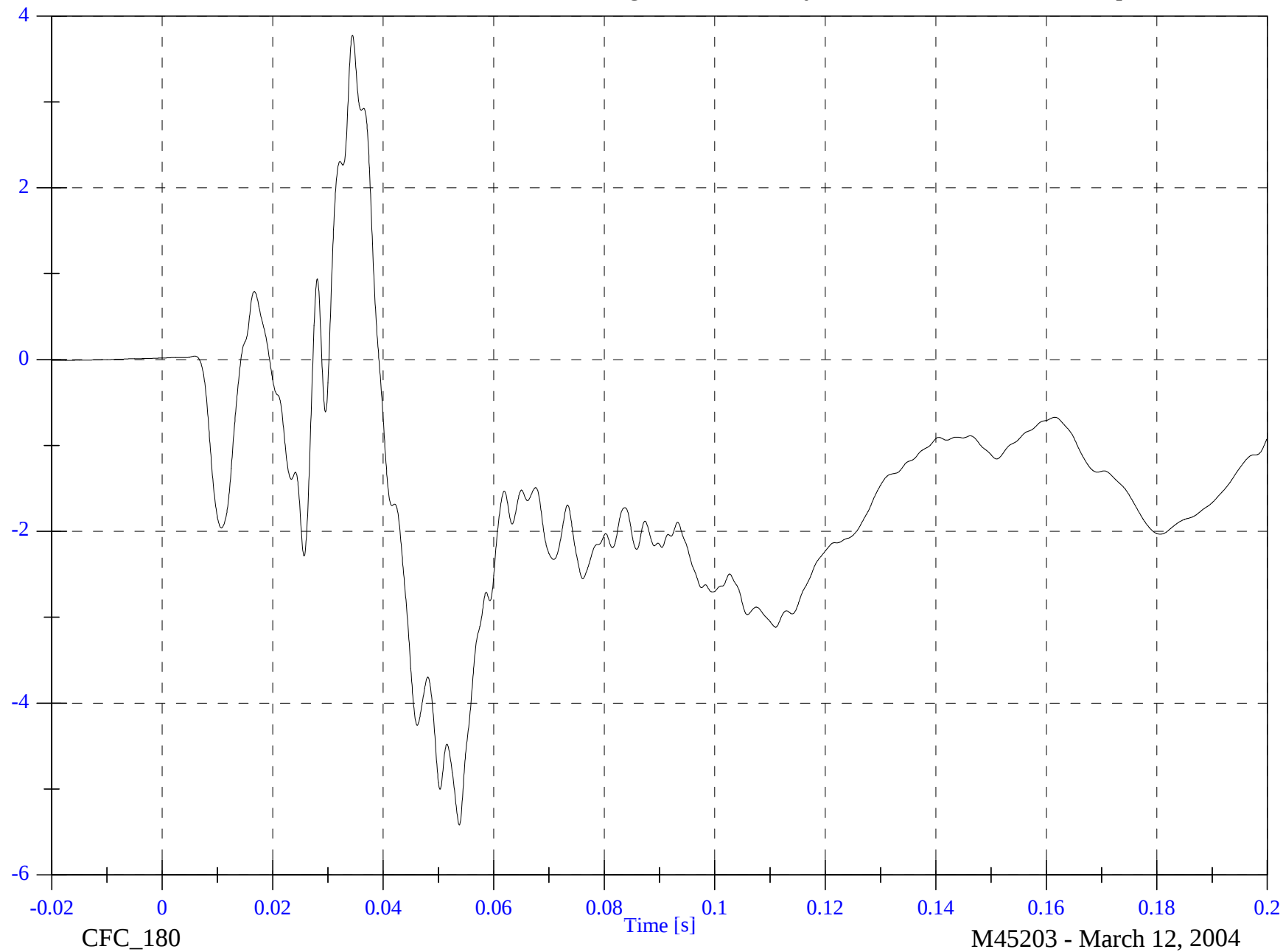
Max: 3.8 [kph] at 0.034 [s]

Min: -5.4 [kph] at 0.054 [s]

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kph

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M45203 - March 12, 2004

2004 SNCAP Test 3 2004 Infinity FX35/45

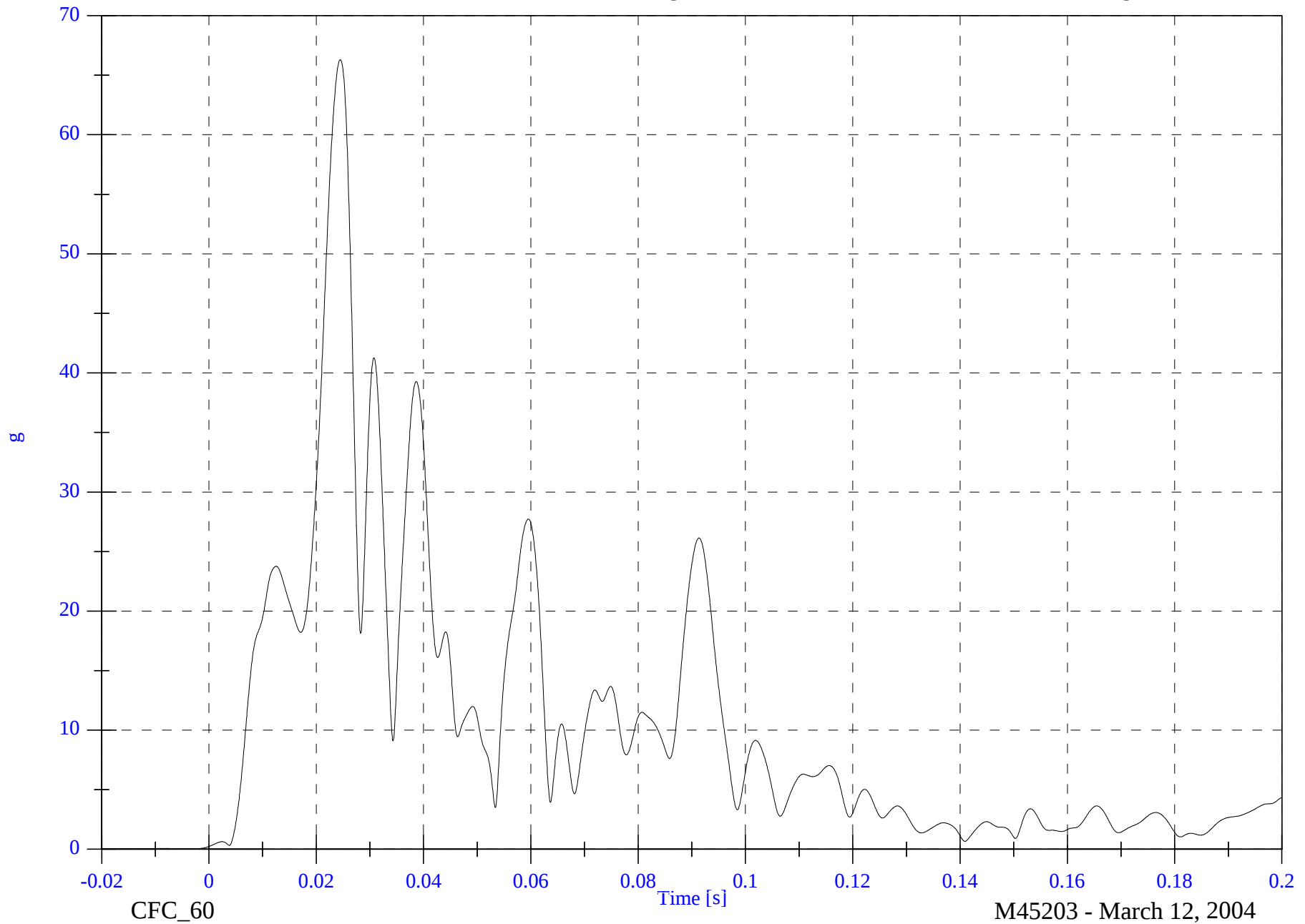
V2 A18 Target CG Resultant

Max: 66.3 [g] at 0.025 [s]

Min: 0.0 [g] at -0.019 [s]

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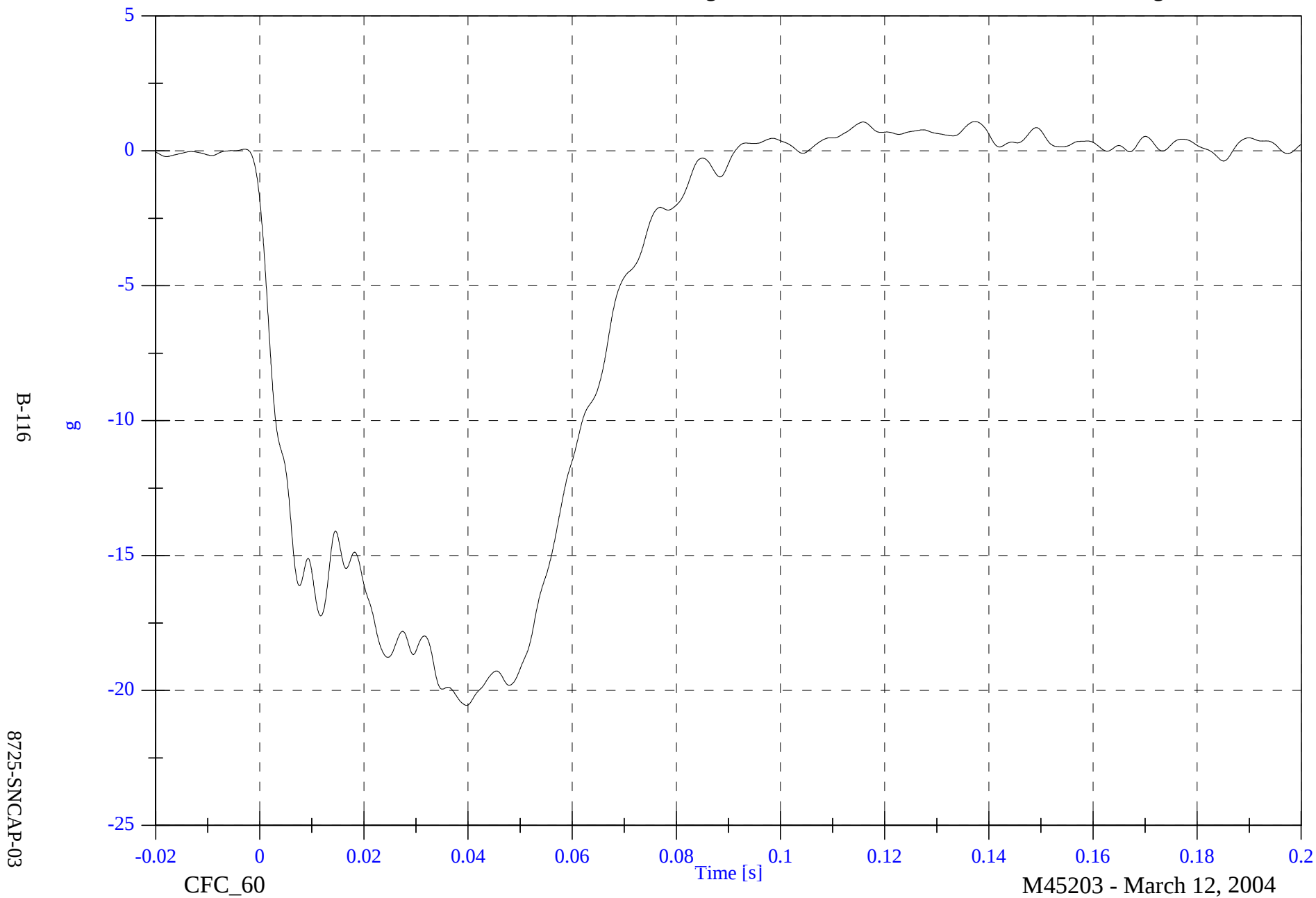


2004 SNCAP Test 3 2004 Infinity FX35/45

V1 Moving Barrier CG X

Max: 1.1 [g] at 0.137 [s]

Min: -20.6 [g] at 0.040 [s]

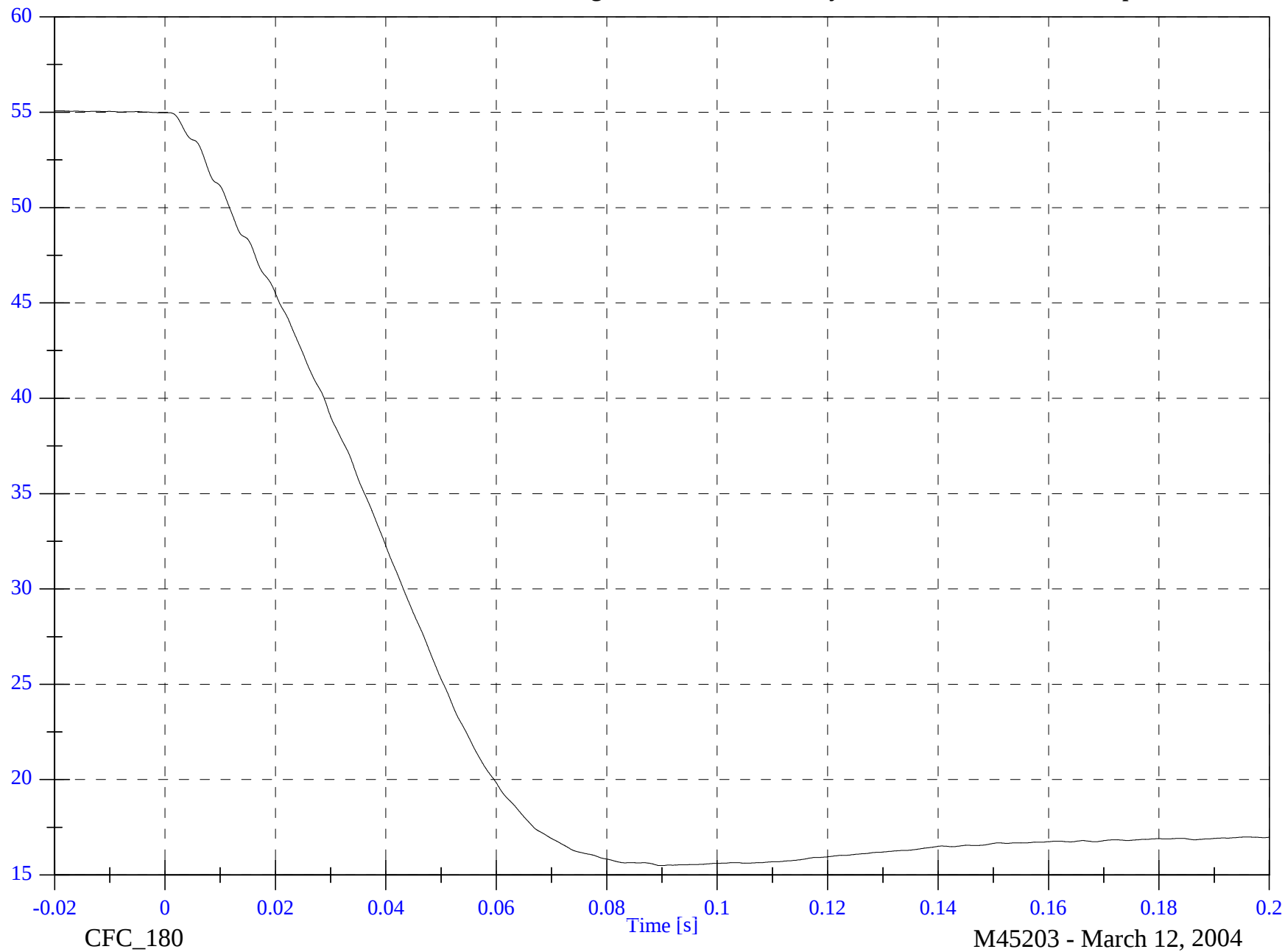


2004 SNCAP Test 3 2004 Infinity FX35/45

Max: 55.1 [kph] at -0.019 [s]

V1 Moving Barrier CG X Velocity

Min: 15.5 [kph] at 0.090 [s]



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8725-SNCAP-03

CFC_180

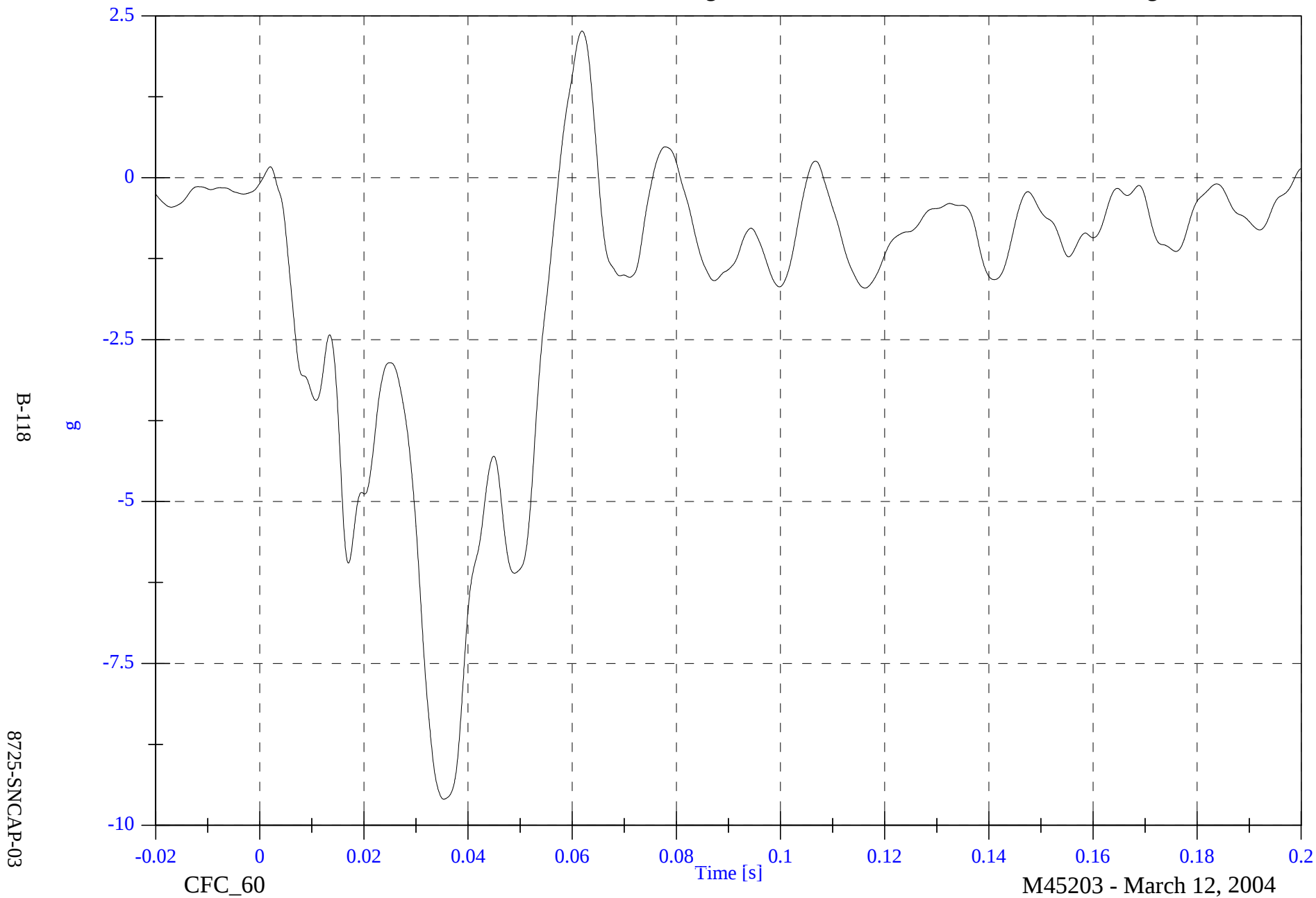
M45203 - March 12, 2004

2004 SNCAP Test 3 2004 Infinity FX35/45

V1 Moving Barrier CG Y

Max: 2.3 [g] at 0.062 [s]

Min: -9.6 [g] at 0.035 [s]



2004 SNCAP Test 3 2004 Infinity FX35/45

Max: 28.1 [kph] at -0.020 [s]

V1 Moving Barrier CG Y Velocity

Min: 15.8 [kph] at 0.199 [s]

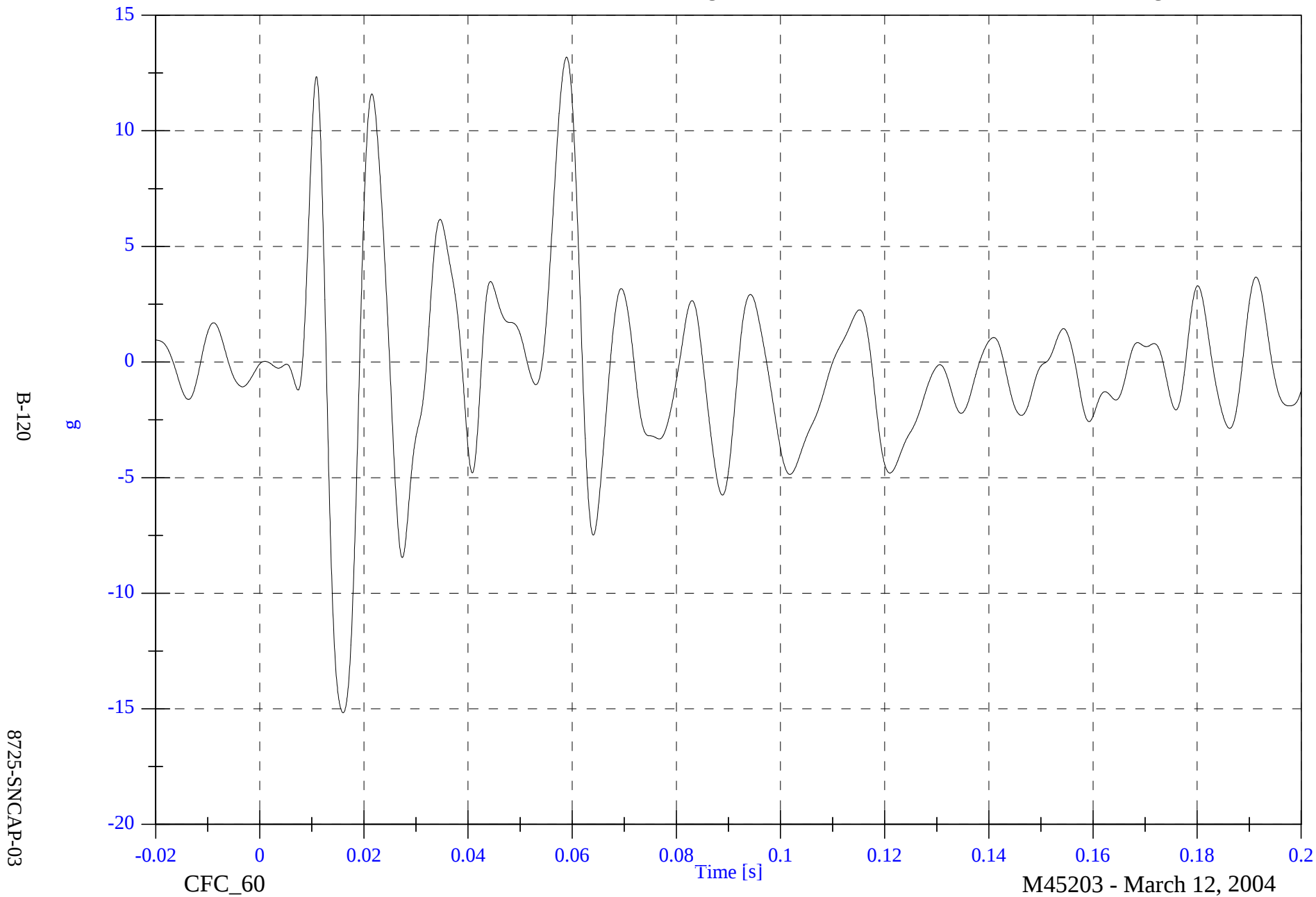


2004 SNCAP Test 3 2004 Infinity FX35/45

V1 Moving Barrier CG Z

Max: 13.2 [g] at 0.059 [s]

Min: -15.2 [g] at 0.016 [s]

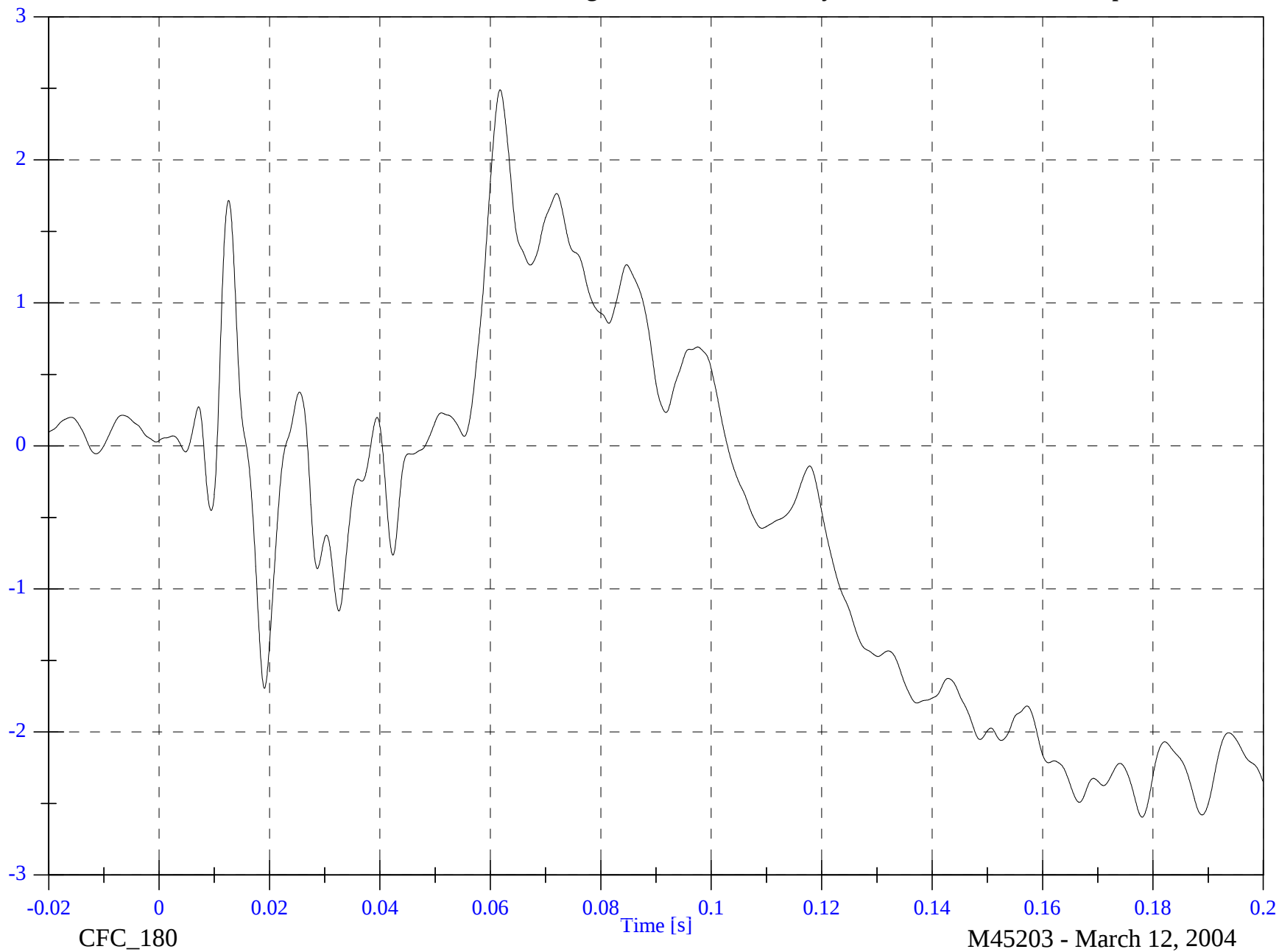


2004 SNCAP Test 3 2004 Infinity FX35/45

Max: 2.5 [kph] at 0.062 [s]

V1 Moving Barrier CG Z Velocity

Min: -2.6 [kph] at 0.178 [s]



B-121

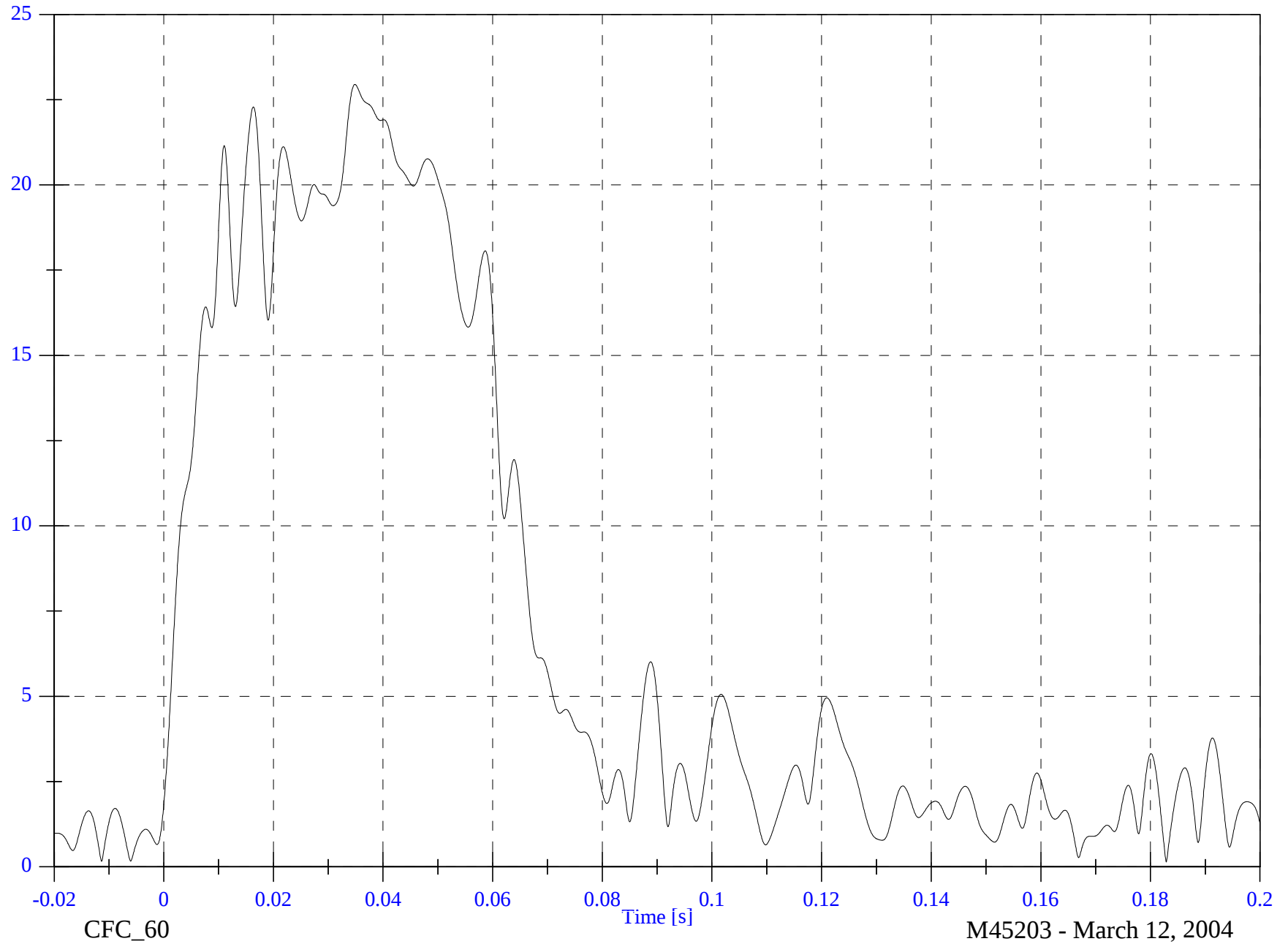
8725-SNCAP-03

2004 SNCAP Test 3 2004 Infinity FX35/45

V1 Moving Barrier CG Resultant

Max: 22.9 [g] at 0.035 [s]

Min: 0.1 [g] at 0.183 [s]

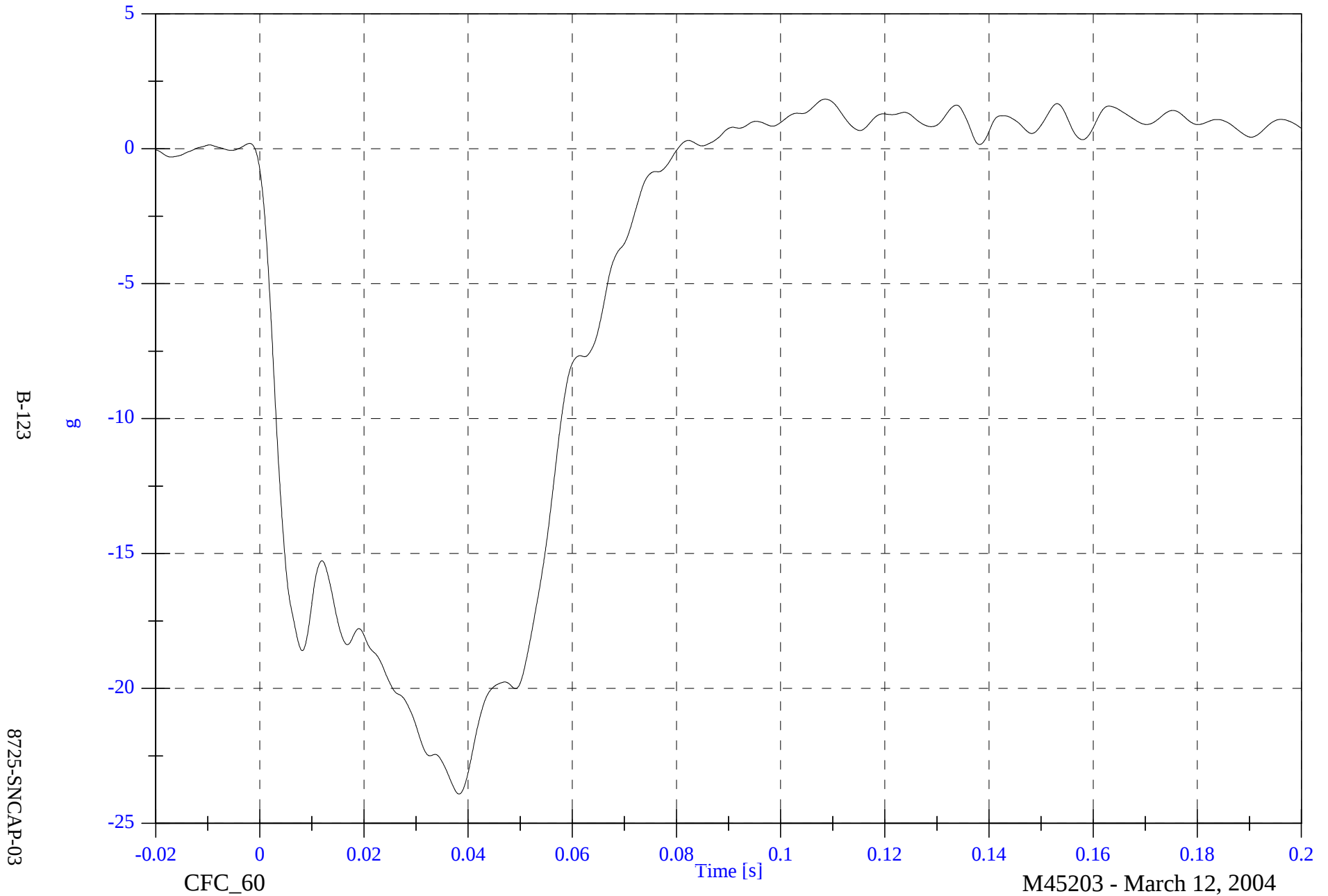


2004 SNCAP Test 3 2004 Infinity FX35/45

V1 Moving Barrier Left Rail X

Max: 1.8 [g] at 0.109 [s]

Min: -23.9 [g] at 0.038 [s]

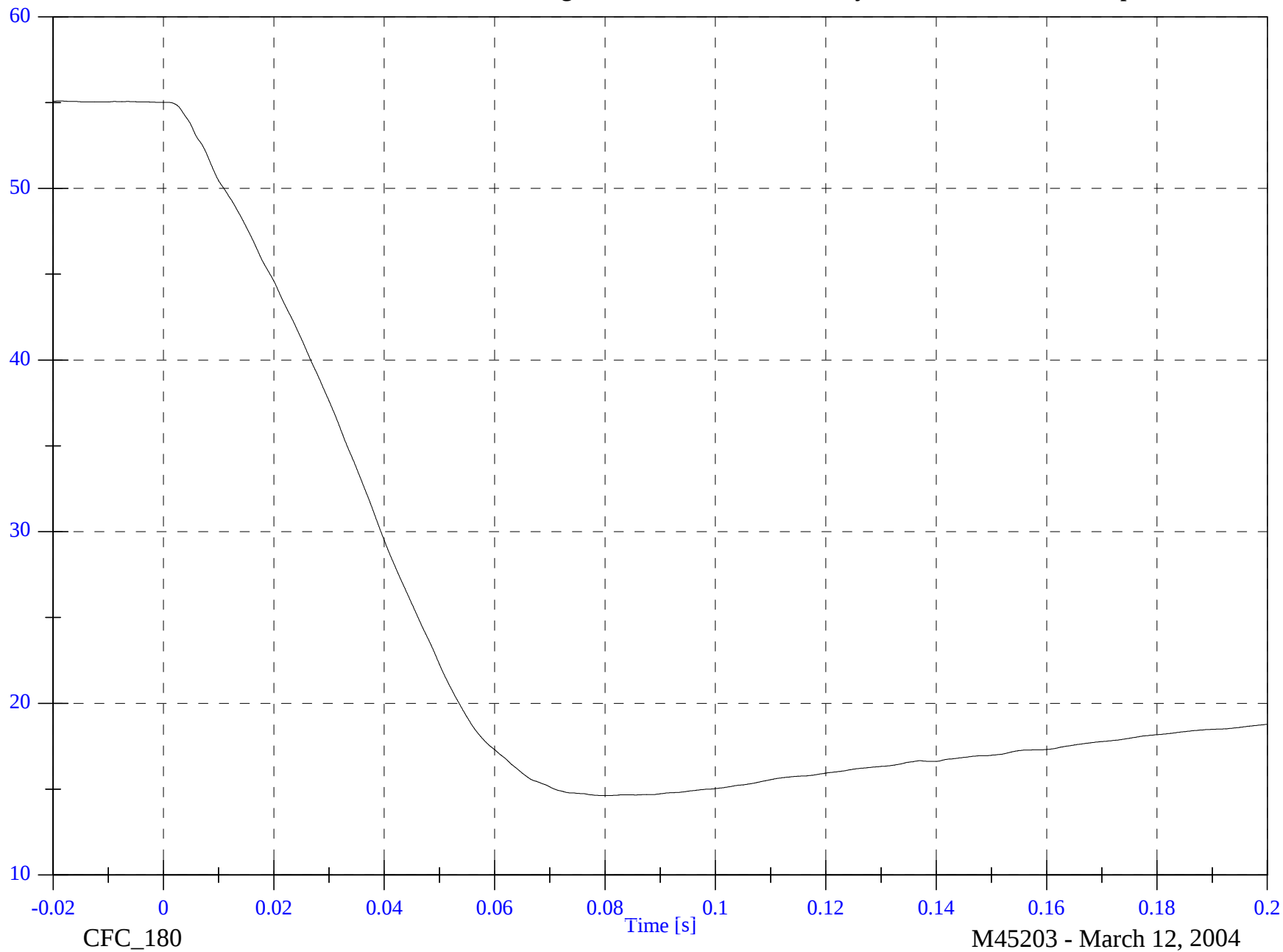


2004 SNCAP Test 3 2004 Infinity FX35/45

Max: 55.1 [kph] at -0.019 [s]

V1 Moving Barrier Left Rail X Velocity

Min: 14.6 [kph] at 0.081 [s]



B-124

8725-SNCAP-03

CFC_180

M45203 - March 12, 2004

2004 SNCAP Test 3 2004 Infinity FX35/45

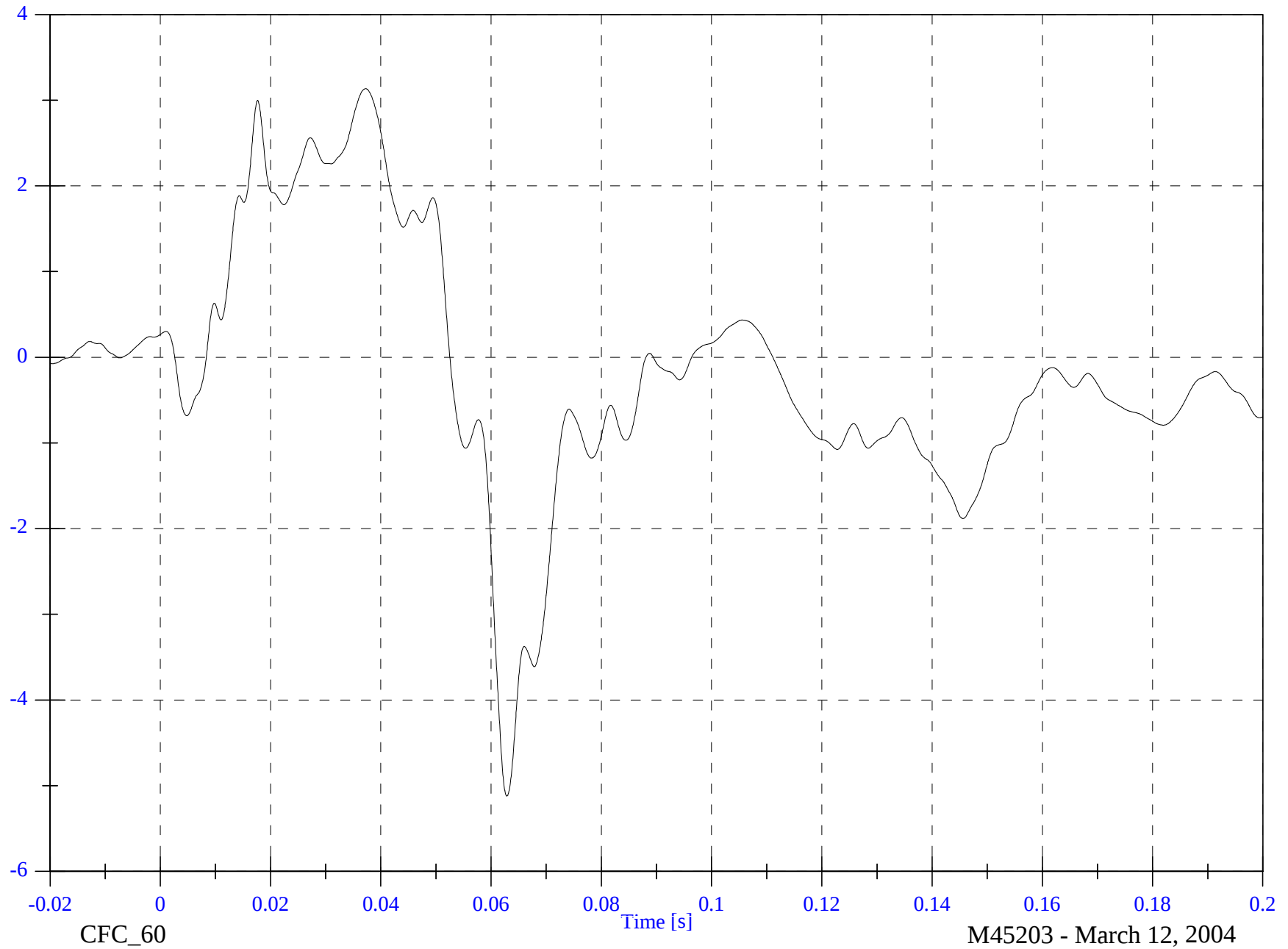
V1 Moving Barrier Left Rail Y

Max: 3.1 [g] at 0.037 [s]

Min: -5.1 [g] at 0.063 [s]

B-125

8725-SNCAP-03

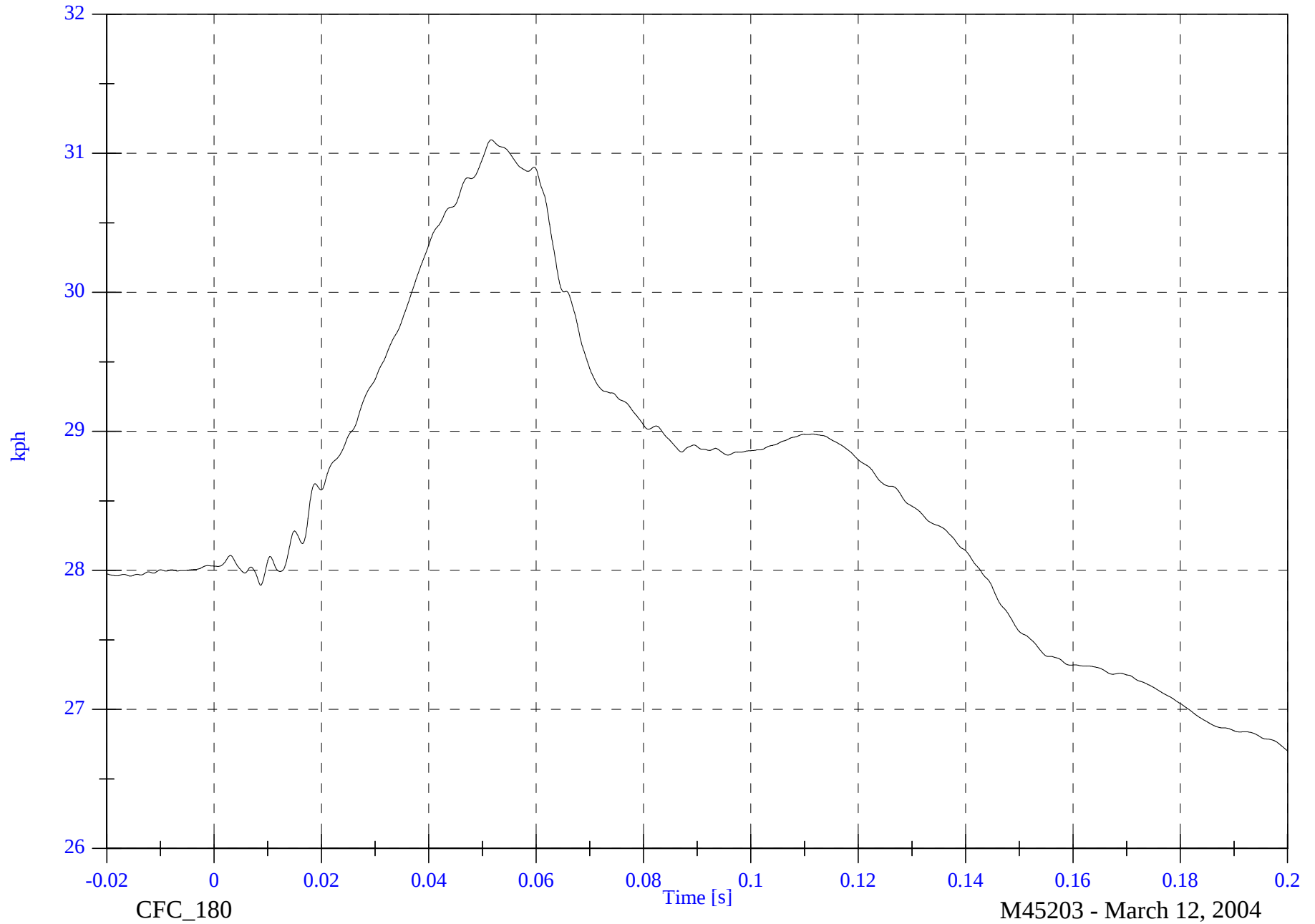


2004 SNCAP Test 3 2004 Infinity FX35/45

Max: 31.1 [kph] at 0.052 [s]

V1 Moving Barrier Left Rail Y Velocity

Min: 26.7 [kph] at 0.200 [s]



B-126

8725-SNCAP-03

CFC_180

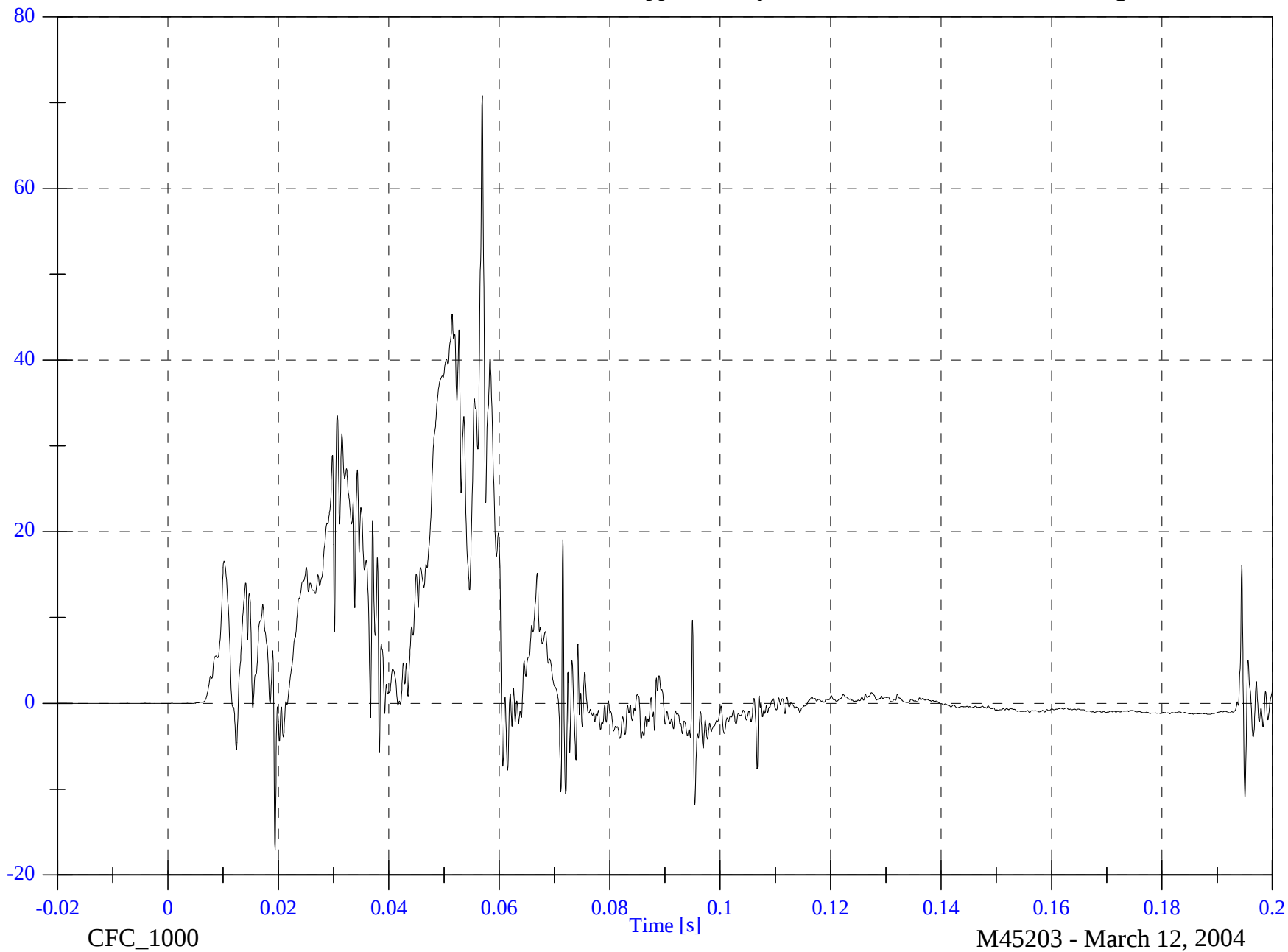
M45203 - March 12, 2004

2004 SNCAP Test 3 2004 Infinity FX35/45

V2P1 Upper Rib Ry

Max: 70.8 [g] at 0.057 [s]

Min: -17.1 [g] at 0.019 [s]

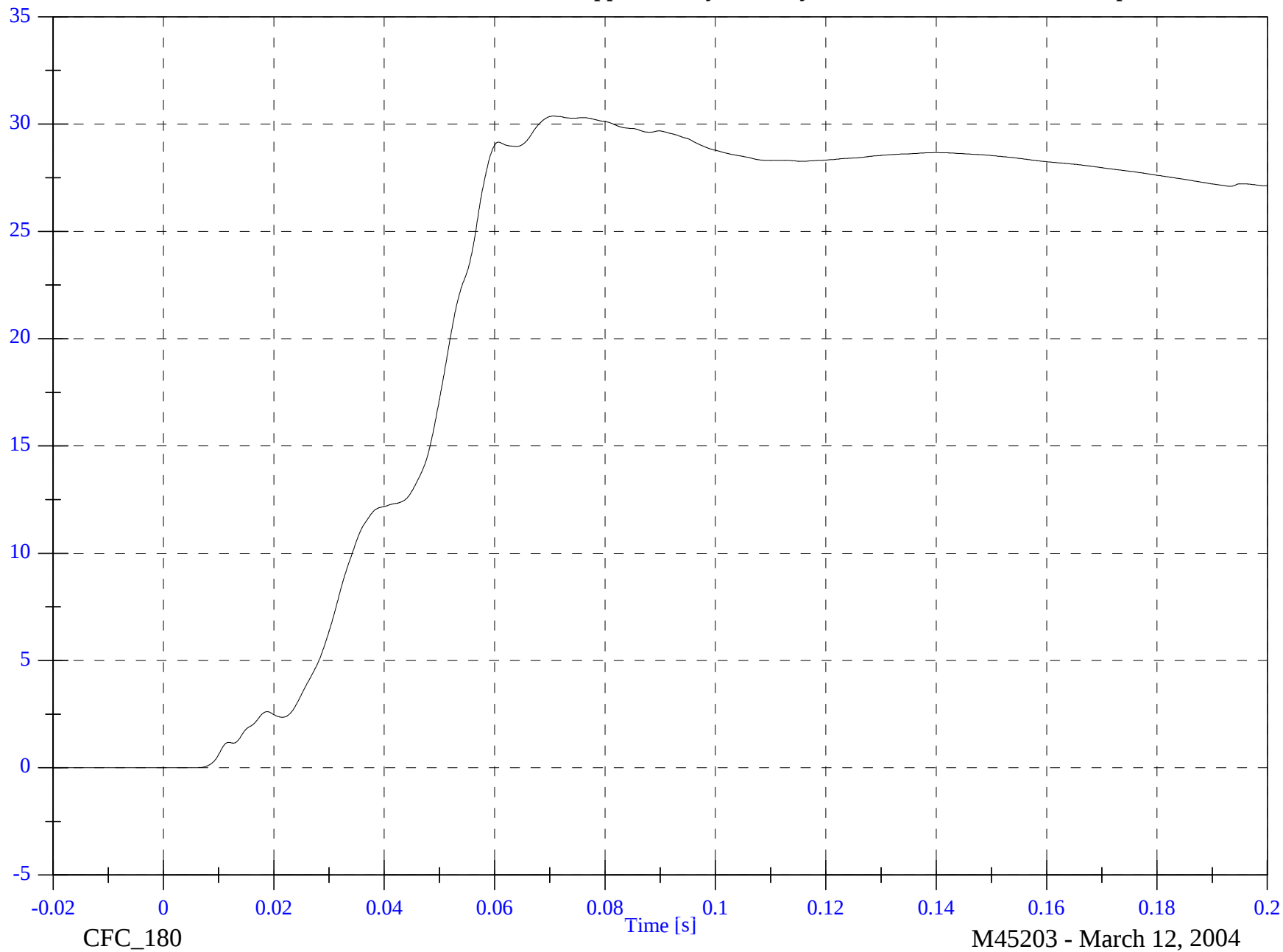


2004 SNCAP Test 3 2004 Infinity FX35/45

Max: 30.4 [kph] at 0.071 [s]

V2P1 Upper Rib Ry Velocity

Min: -0.0 [kph] at -0.020 [s]



B-128

8725-SNCAP-03

2004 SNCAP Test 3 2004 Infinity FX35/45

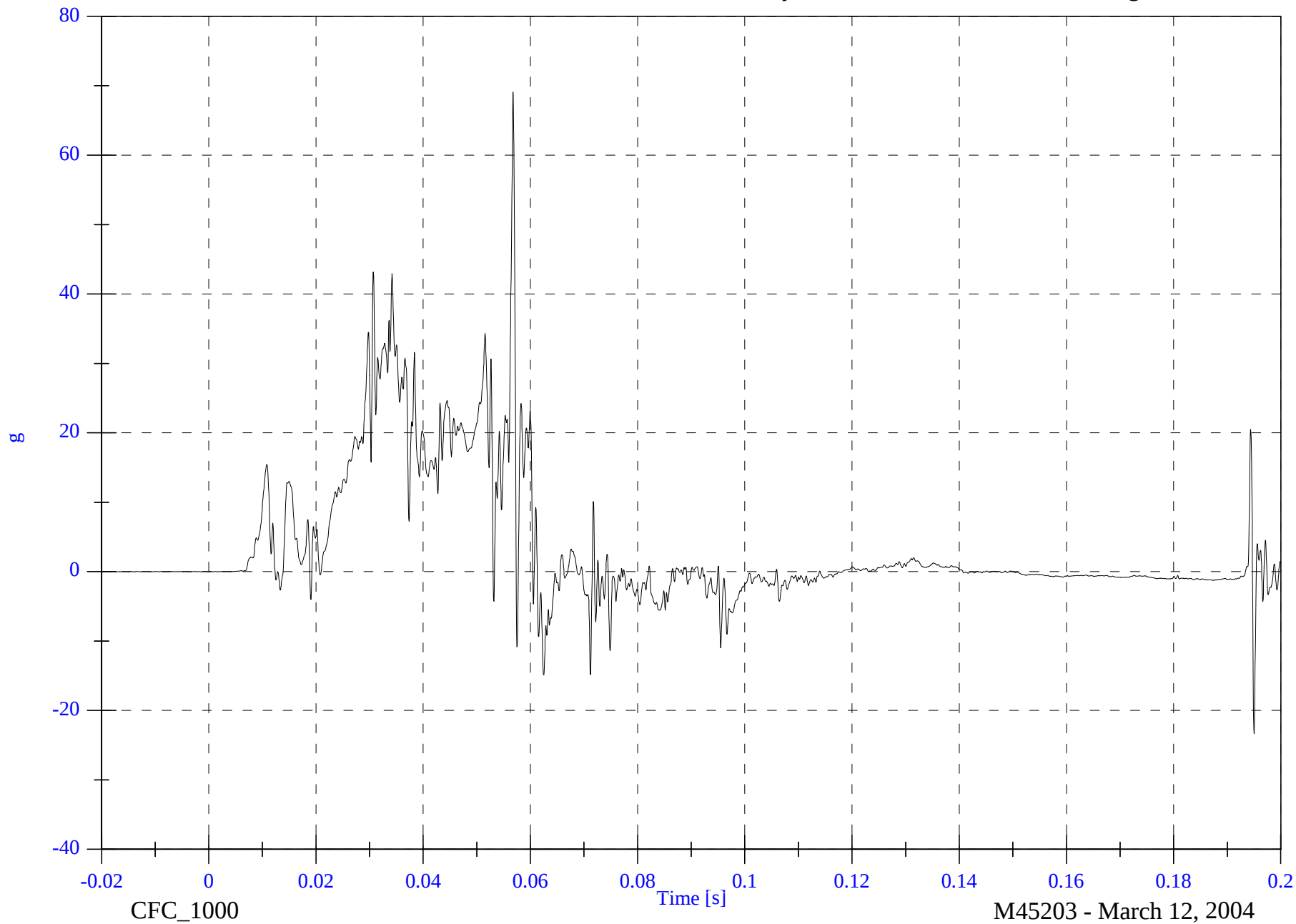
V2P1 Lower Rib Ry

Max: 69.1 [g] at 0.057 [s]

Min: -23.4 [g] at 0.195 [s]

B-129

8725-SNCAP-03

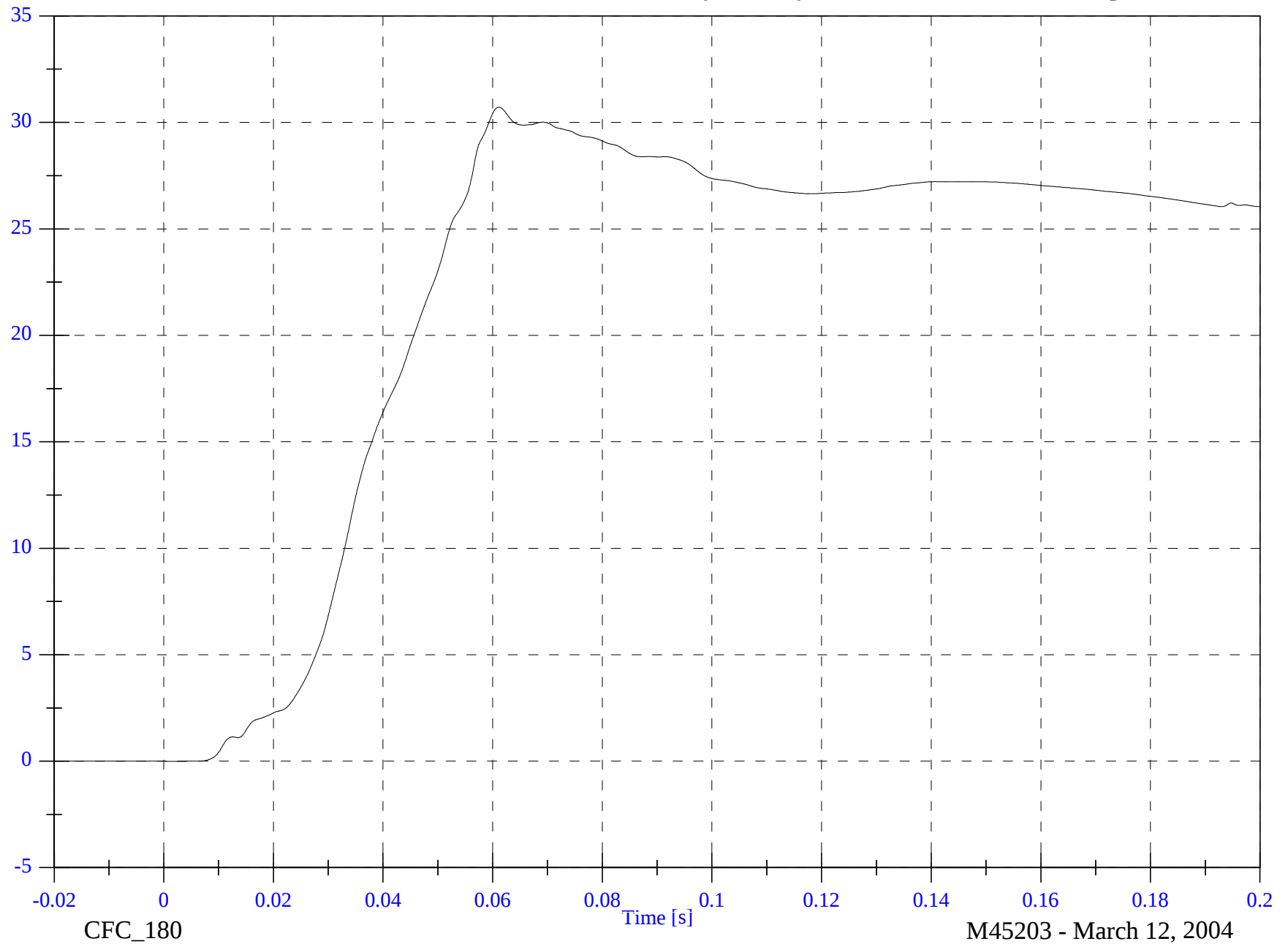


2004 SNCAP Test 3 2004 Infinity FX35/45

V2P1 Lower Rib Ry Velocity

Max: 30.7 [kph] at 0.061 [s]

Min: -0.0 [kph] at 0.001 [s]



B-130

8725-SNCAP-03

CFC_180

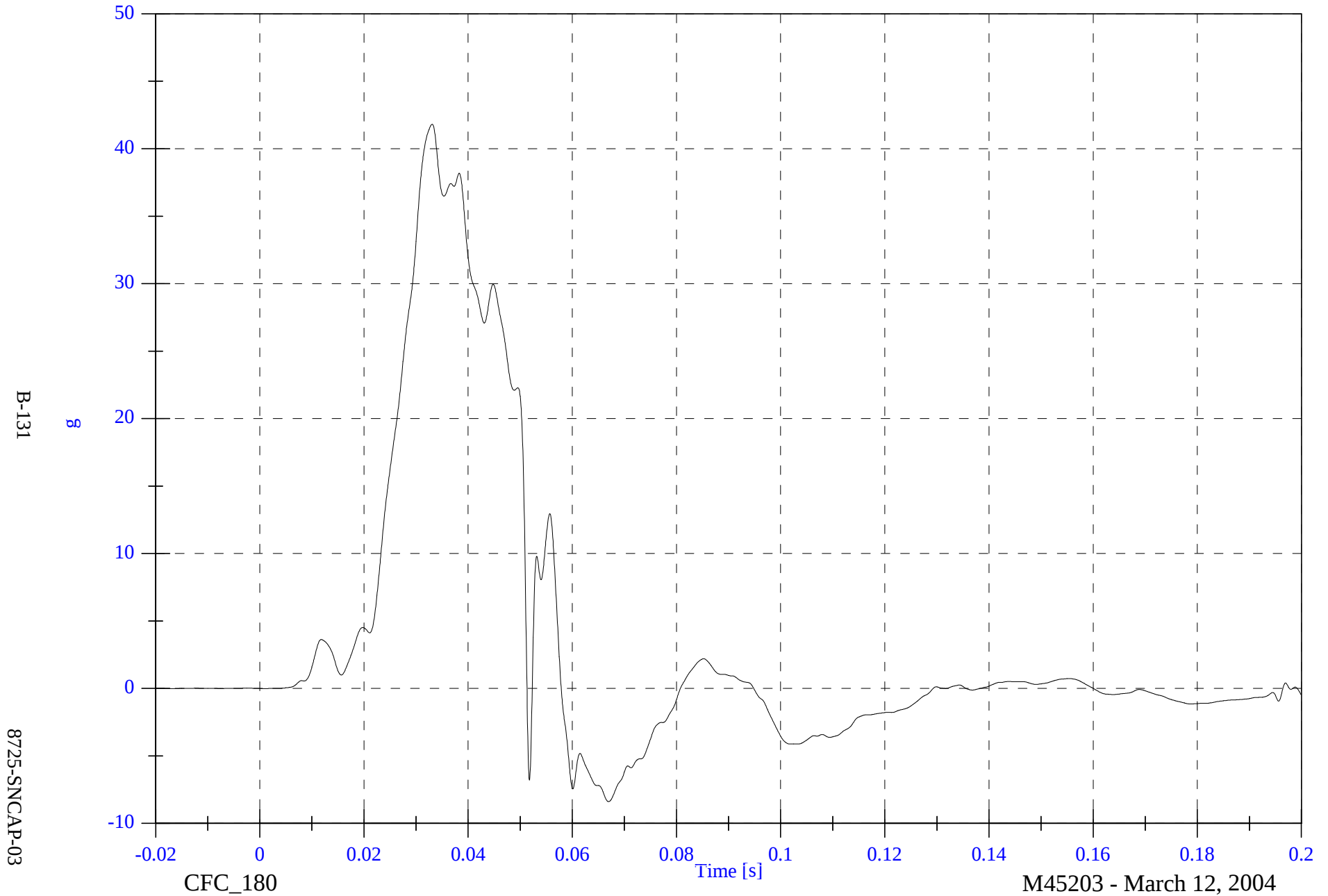
M45203 - March 12, 2004

2004 SNCAP Test 3 2004 Infinity FX35/45

V2P1 Lower Spine Ry

Max: 41.8 [g] at 0.033 [s]

Min: -8.4 [g] at 0.067 [s]

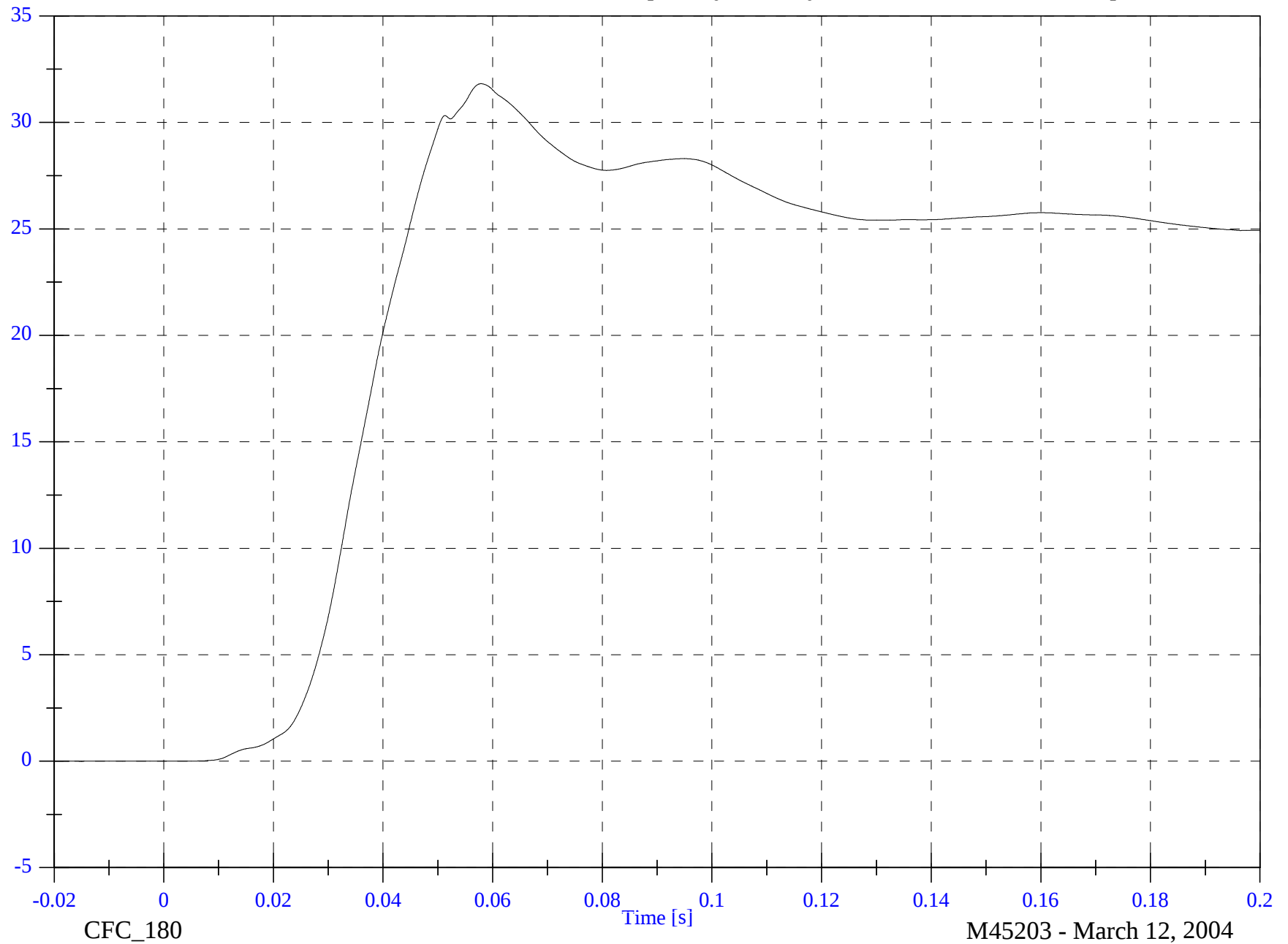


2004 SNCAP Test 3 2004 Infinity FX35/45

V2P1 Lower Spine Ry Velocity

Max: 31.8 [kph] at 0.058 [s]

Min: -0.0 [kph] at -0.015 [s]



B-132

8725-SNCAP-03

CFC_180

M45203 - March 12, 2004

2004 SNCAP Test 3 2004 Infinity FX35/45

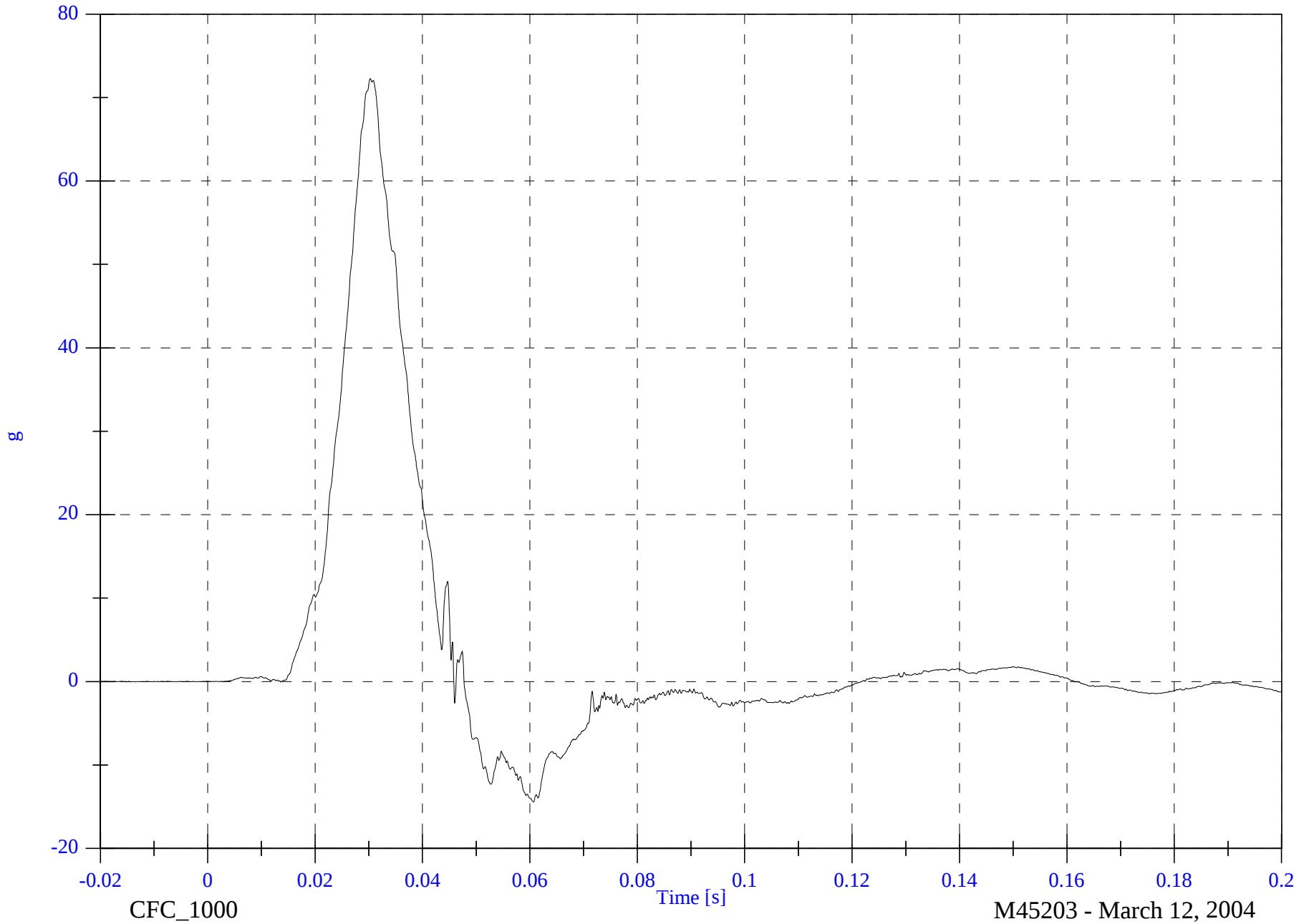
V2P1 Pelvic Ry

Max: 72.3 [g] at 0.030 [s]

Min: -14.4 [g] at 0.061 [s]

B-133

8725-SNCAP-03

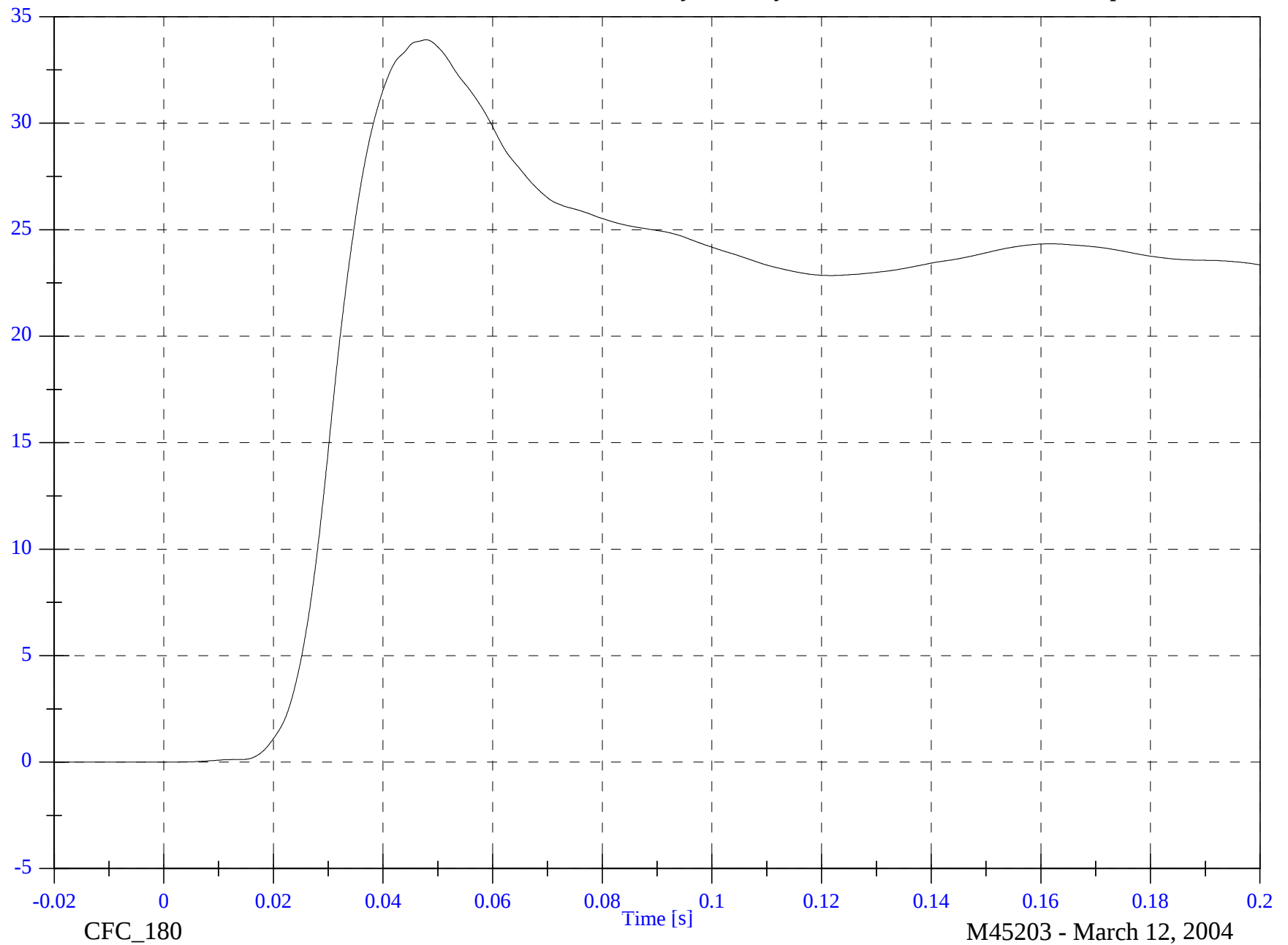


2004 SNCAP Test 3 2004 Infinity FX35/45

Max: 33.9 [kph] at 0.048 [s]

Min: -0.0 [kph] at -0.020 [s]

V2P1 Pelvic Ry Velocity



B-134

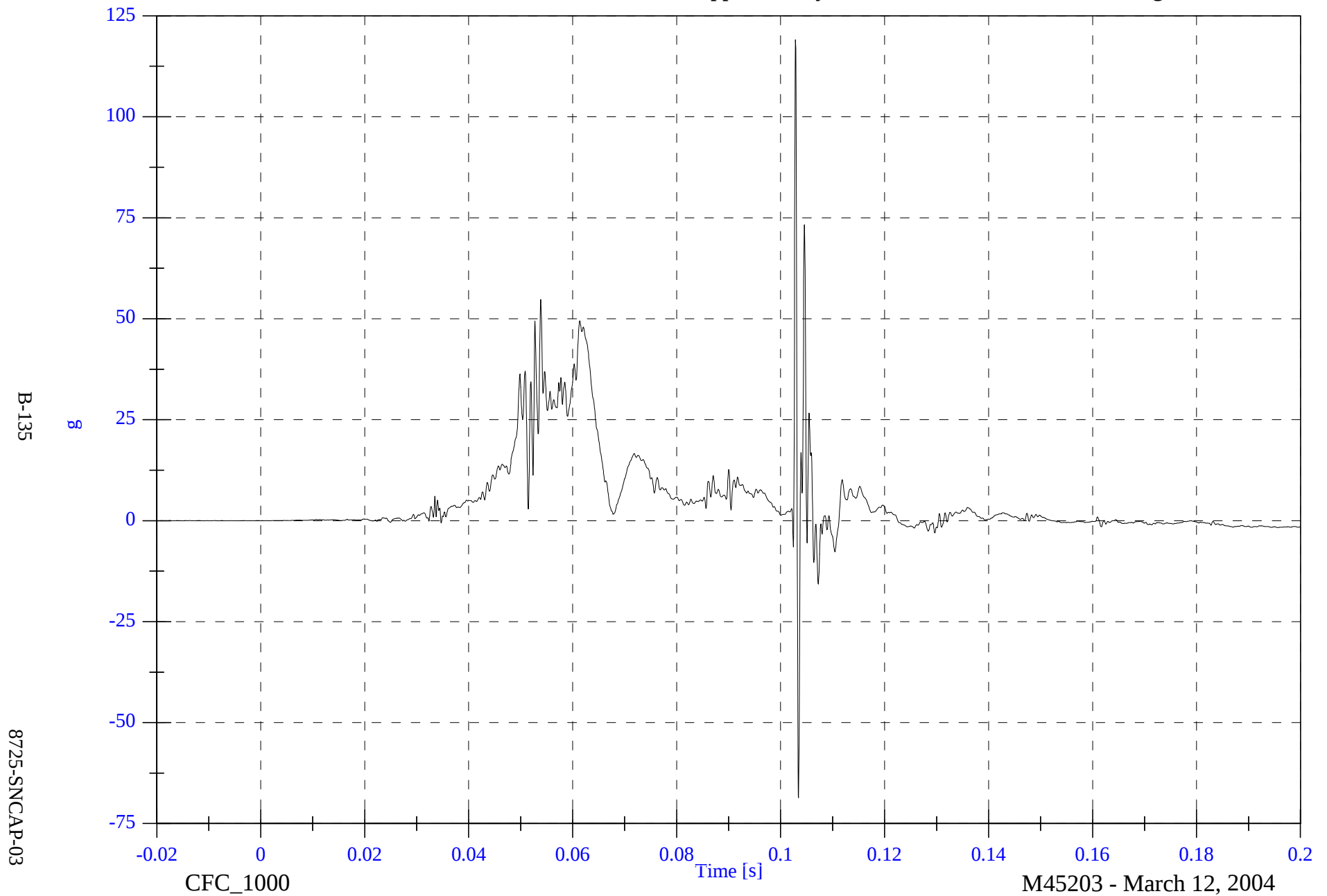
8725-SNCAP-03

2004 SNCAP Test 3 2004 Infinity FX35/45

V2P4 Upper Rib Ry

Max: 119.1 [g] at 0.103 [s]

Min: -68.6 [g] at 0.103 [s]

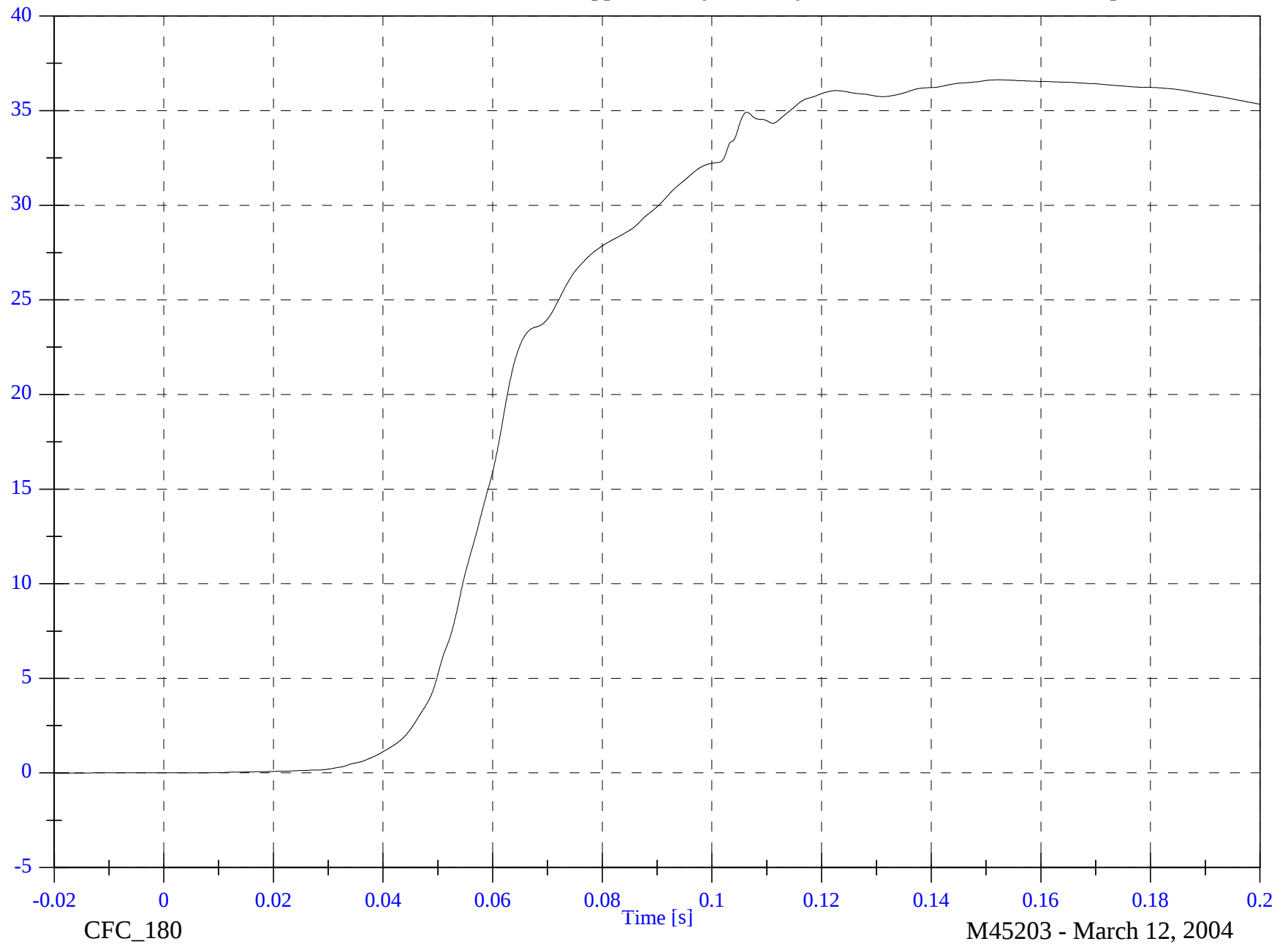


2004 SNCAP Test 3 2004 Infinity FX35/45

V2P4 Upper Rib Ry Velocity

Max: 36.6 [kph] at 0.152 [s]

Min: -0.0 [kph] at -0.019 [s]



B-136

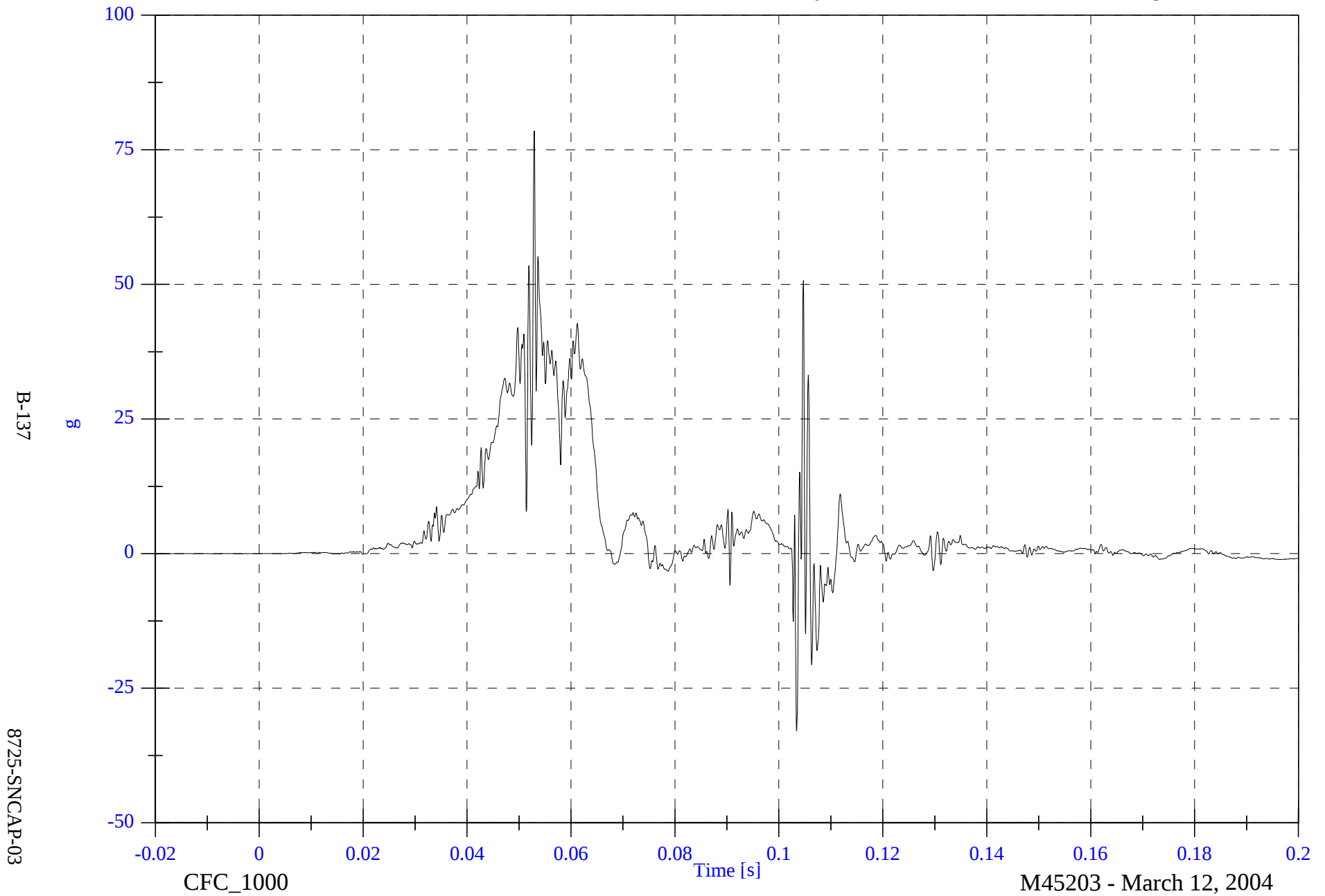
8725-SNCAP-03

2004 SNCAP Test 3 2004 Infinity FX35/45

V2P4 Lower Rib Ry

Max: 78.5 [g] at 0.053 [s]

Min: -32.9 [g] at 0.103 [s]

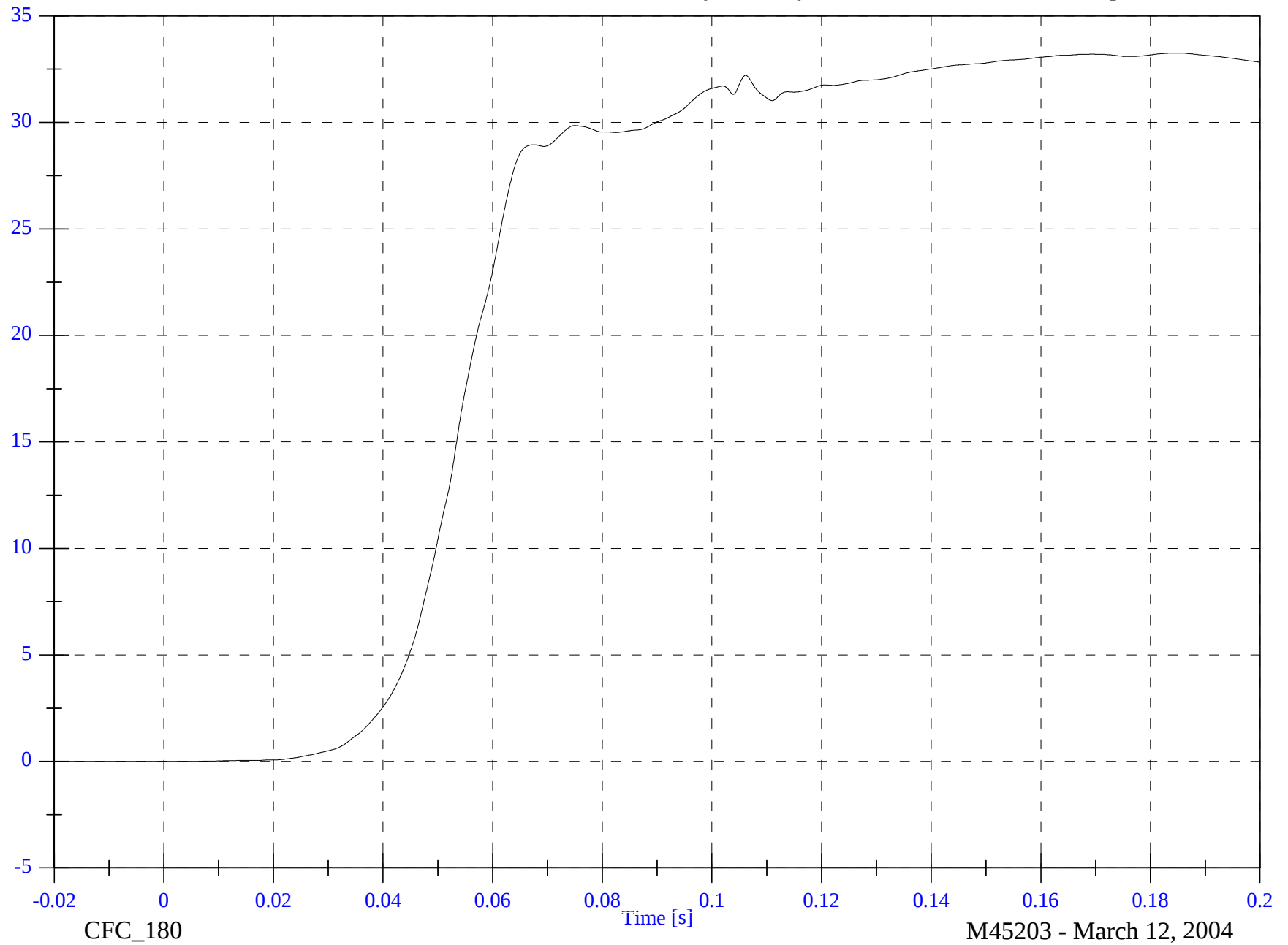


2004 SNCAP Test 3 2004 Infinity FX35/45

V2P4 Lower Rib Ry Velocity

Max: 33.3 [kph] at 0.185 [s]

Min: -0.0 [kph] at -0.020 [s]



B-138

8725-SNCAP-03

CFC_180

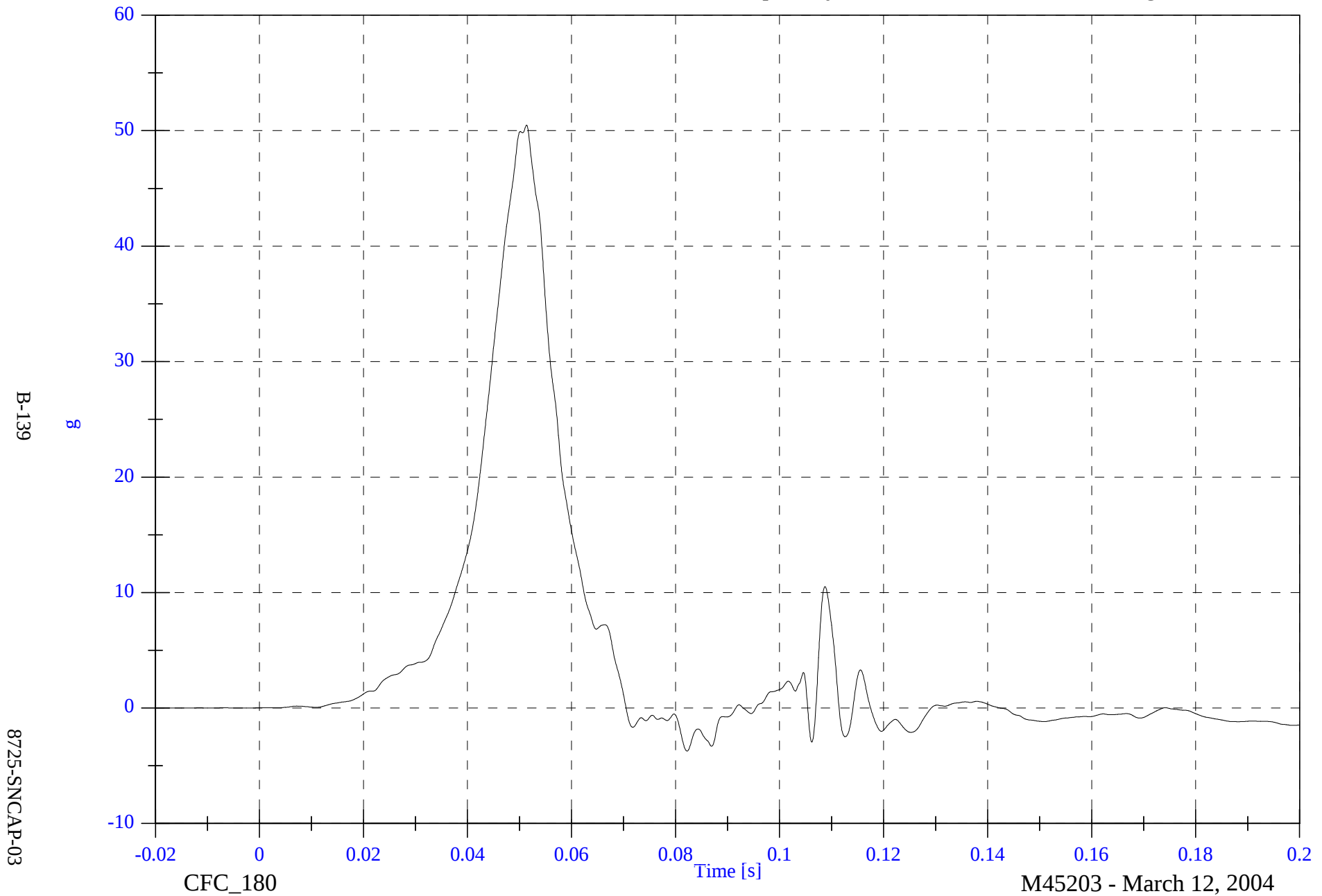
M45203 - March 12, 2004

2004 SNCAP Test 3 2004 Infinity FX35/45

V2P4 Lower Spine Ry

Max: 50.5 [g] at 0.051 [s]

Min: -3.7 [g] at 0.082 [s]

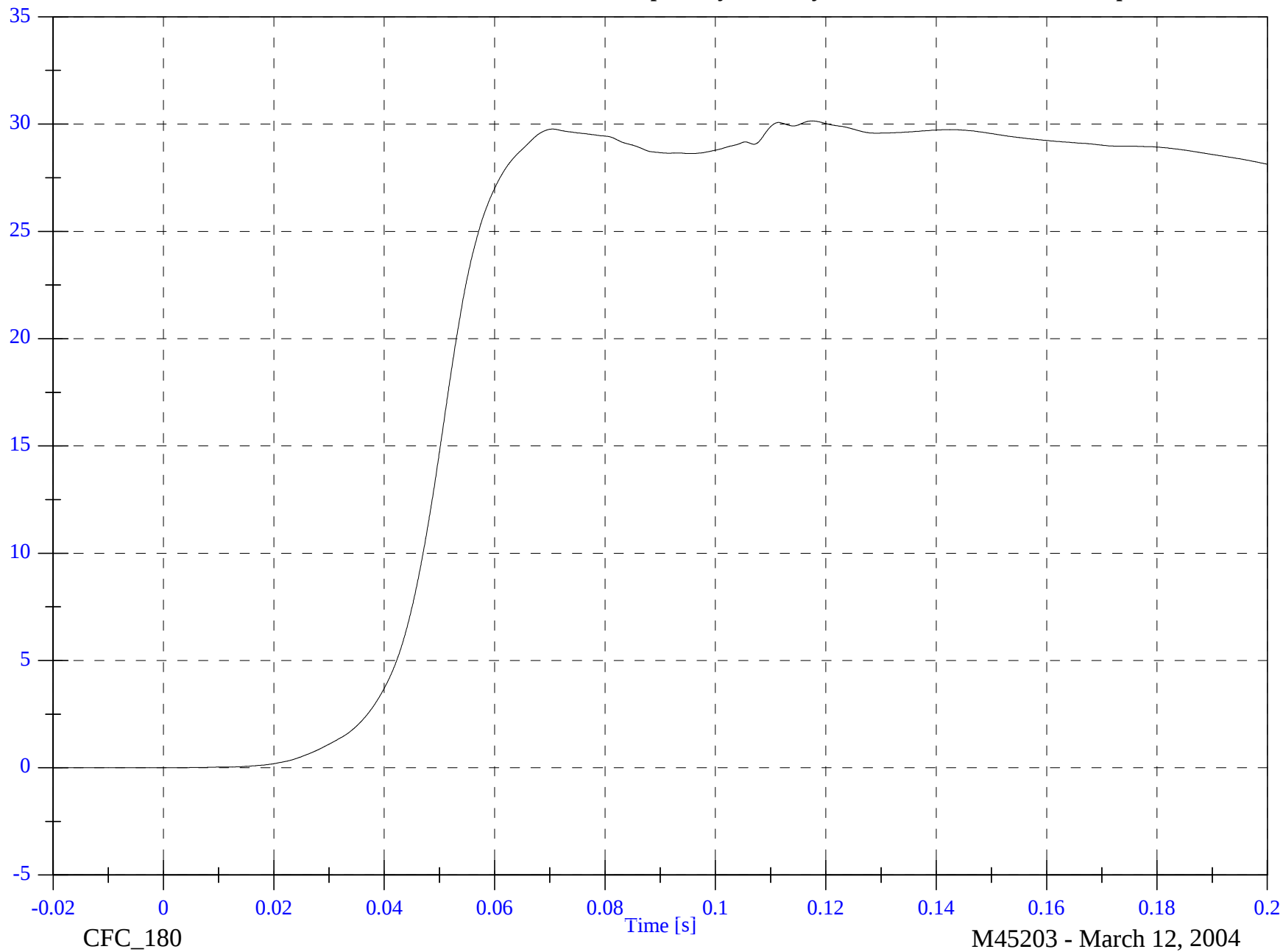


2004 SNCAP Test 3 2004 Infinity FX35/45

V2P4 Lower Spine Ry Velocity

Max: 30.1 [kph] at 0.118 [s]

Min: -0.0 [kph] at -0.018 [s]



B-140

8725-SNCAP-03

CFC_180

M45203 - March 12, 2004

2004 SNCAP Test 3 2004 Infinity FX35/45

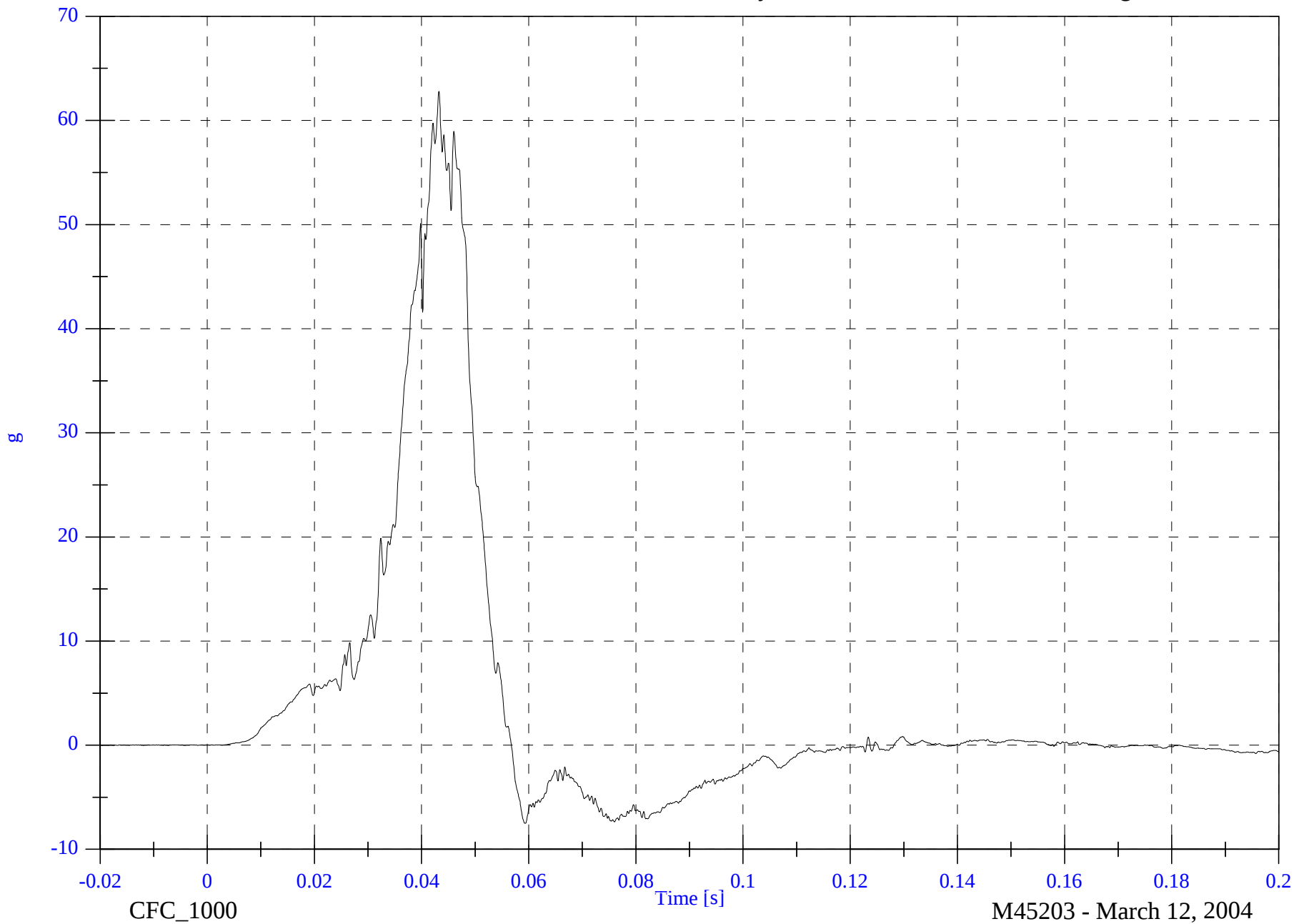
V2P4 Pelvic Ry

Max: 62.8 [g] at 0.043 [s]

Min: -7.5 [g] at 0.059 [s]

B-141

8725-SNCAP-03

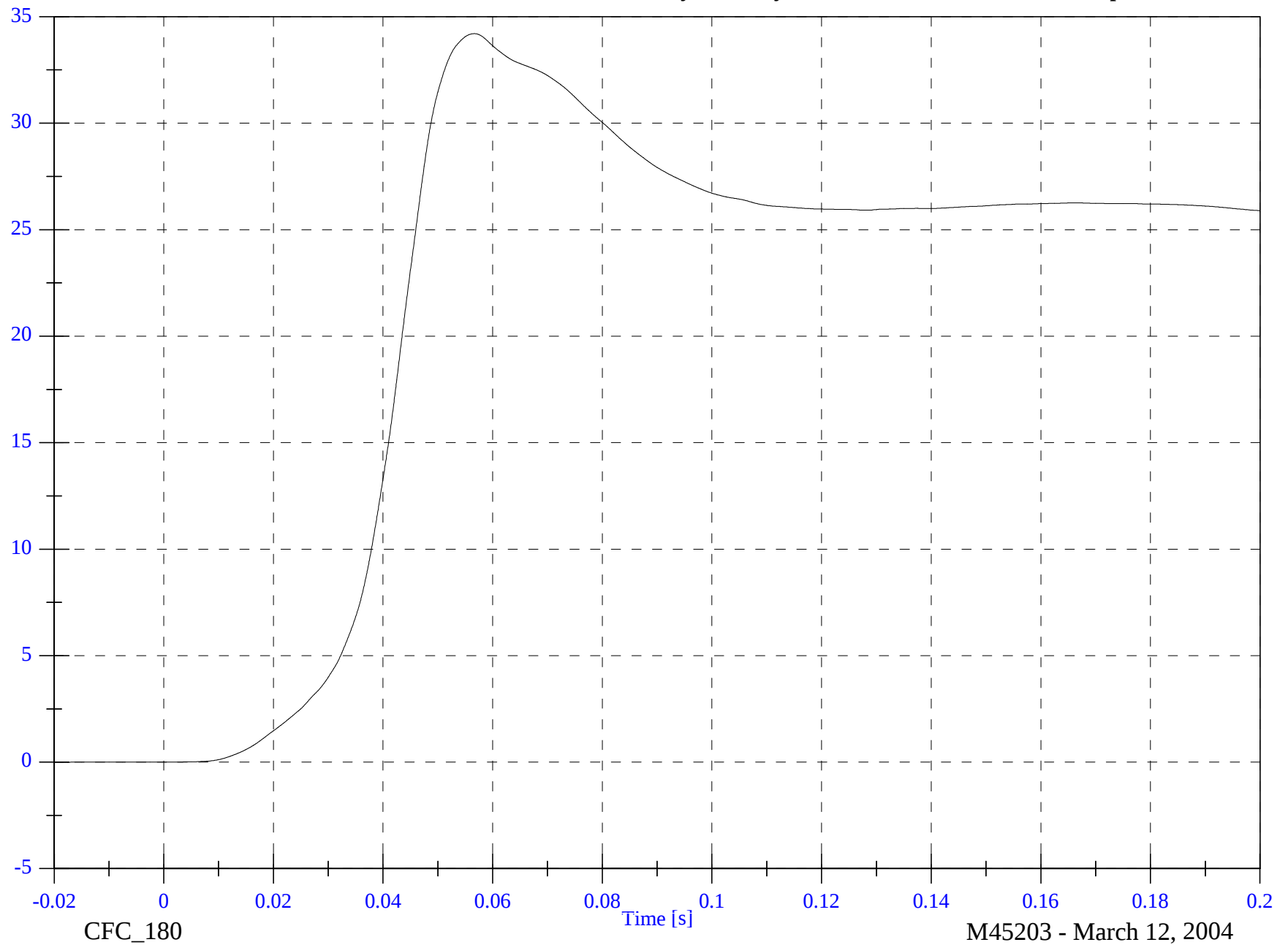


2004 SNCAP Test 3 2004 Infinity FX35/45

Max: 34.2 [kph] at 0.057 [s]

Min: -0.0 [kph] at -0.020 [s]

V2P4 Pelvic Ry Velocity



B-142

8725-SNCAP-03

CFC_180

M45203 - March 12, 2004

2004 SNCAP Test 3 2004 Infinity FX35/45

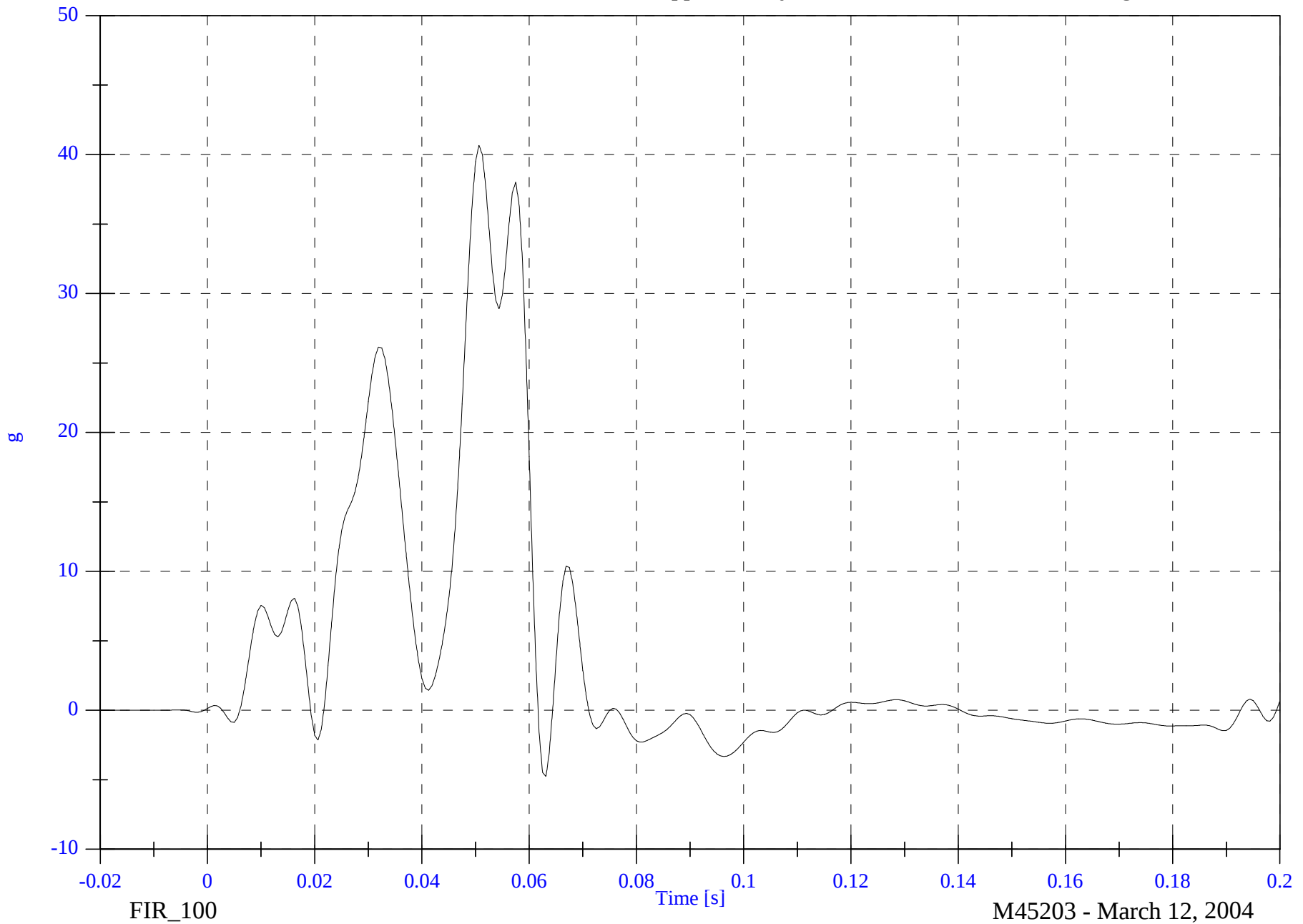
V2P1 Upper Rib Ry

Max: 40.7 [g] at 0.051 [s]

Min: -4.8 [g] at 0.063 [s]

B-143

8725-SNCAP-03



2004 SNCAP Test 3 2004 Infinity FX35/45

V2P1 Lower Rib Ry

Max: 33.2 [g] at 0.034 [s]

Min: -7.5 [g] at 0.063 [s]

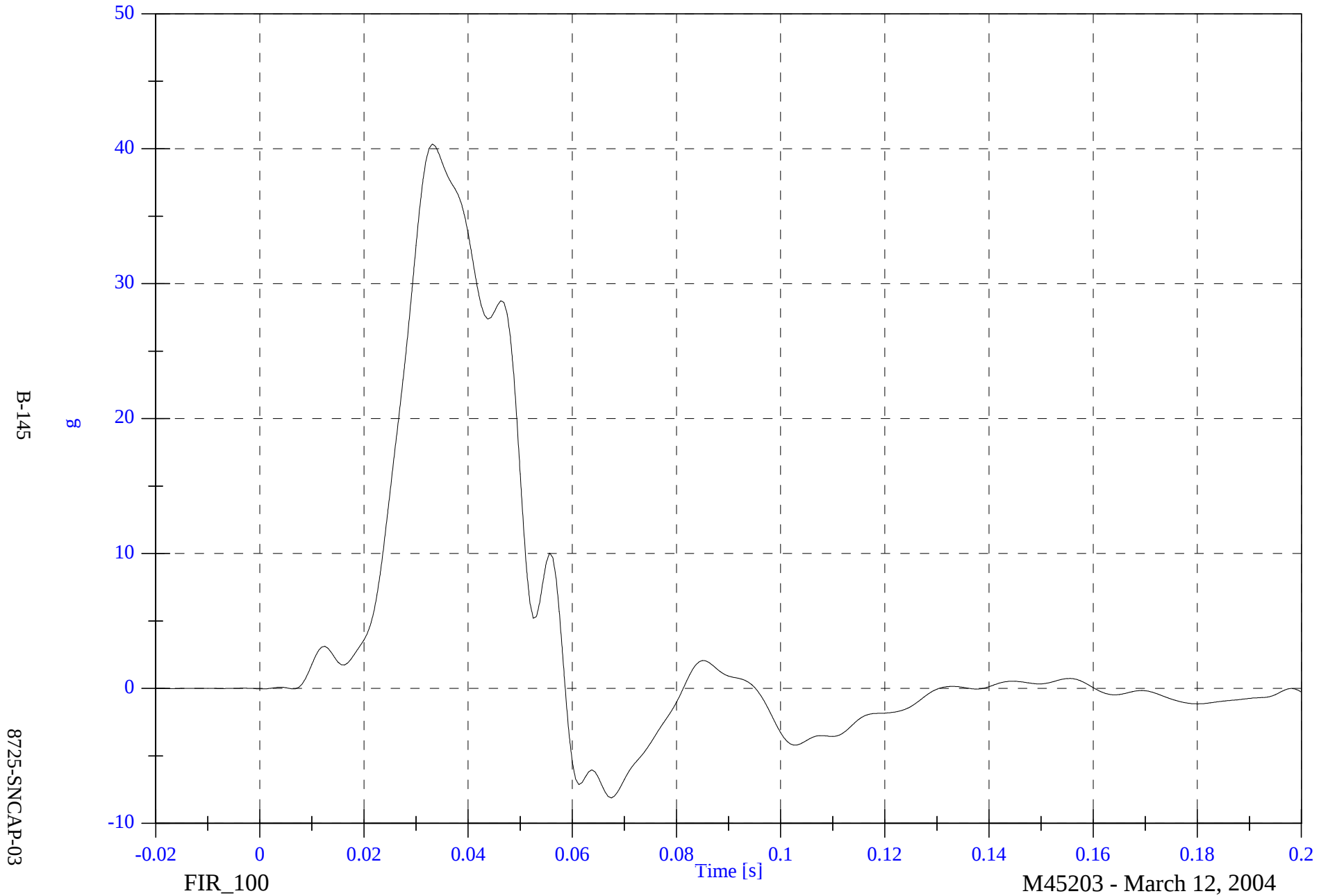


2004 SNCAP Test 3 2004 Infinity FX35/45

V2P1 Lower Spine Ry

Max: 40.3 [g] at 0.033 [s]

Min: -8.1 [g] at 0.068 [s]

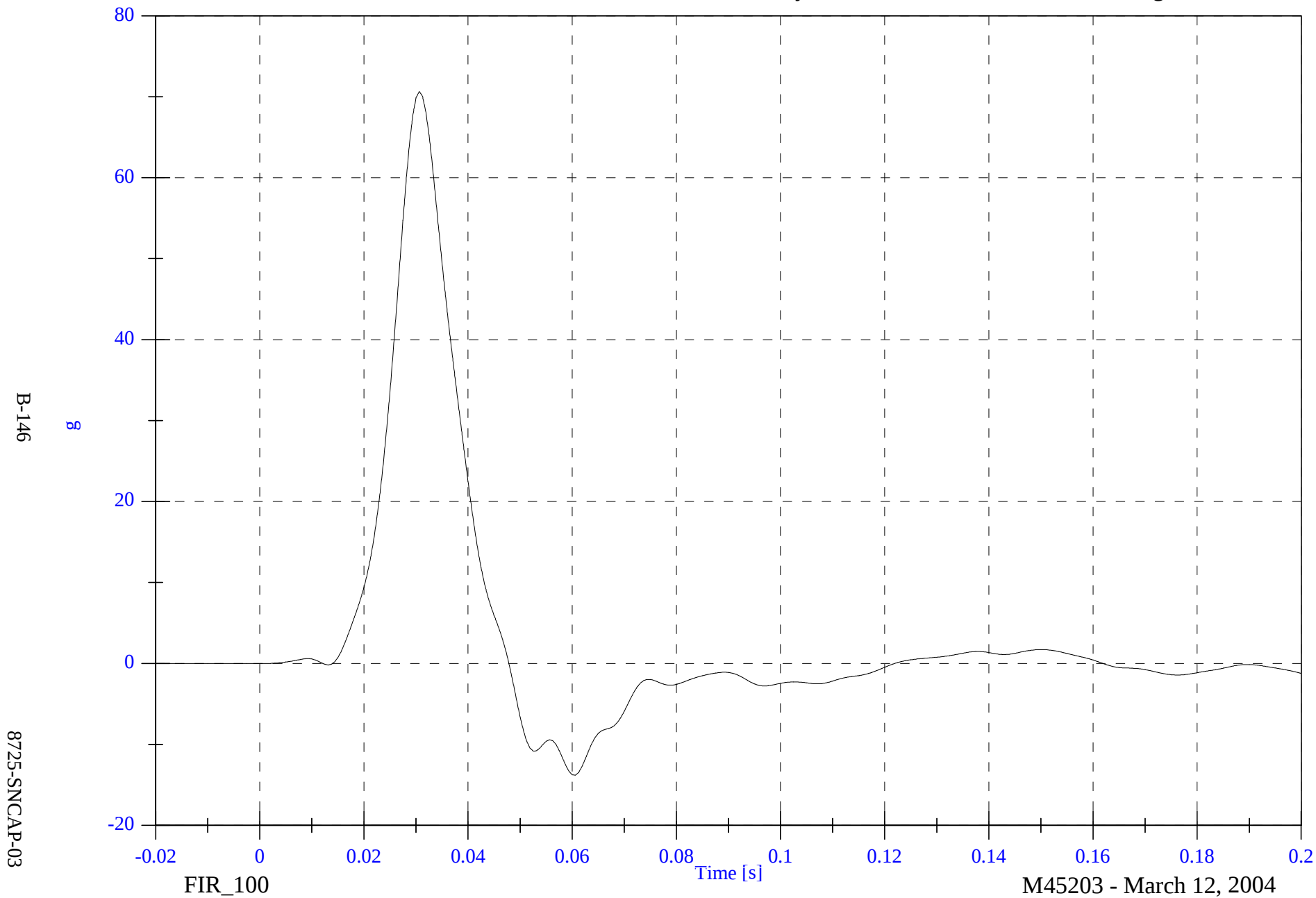


2004 SNCAP Test 3 2004 Infinity FX35/45

V2P1 Pelvic Ry

Max: 70.6 [g] at 0.031 [s]

Min: -13.8 [g] at 0.061 [s]

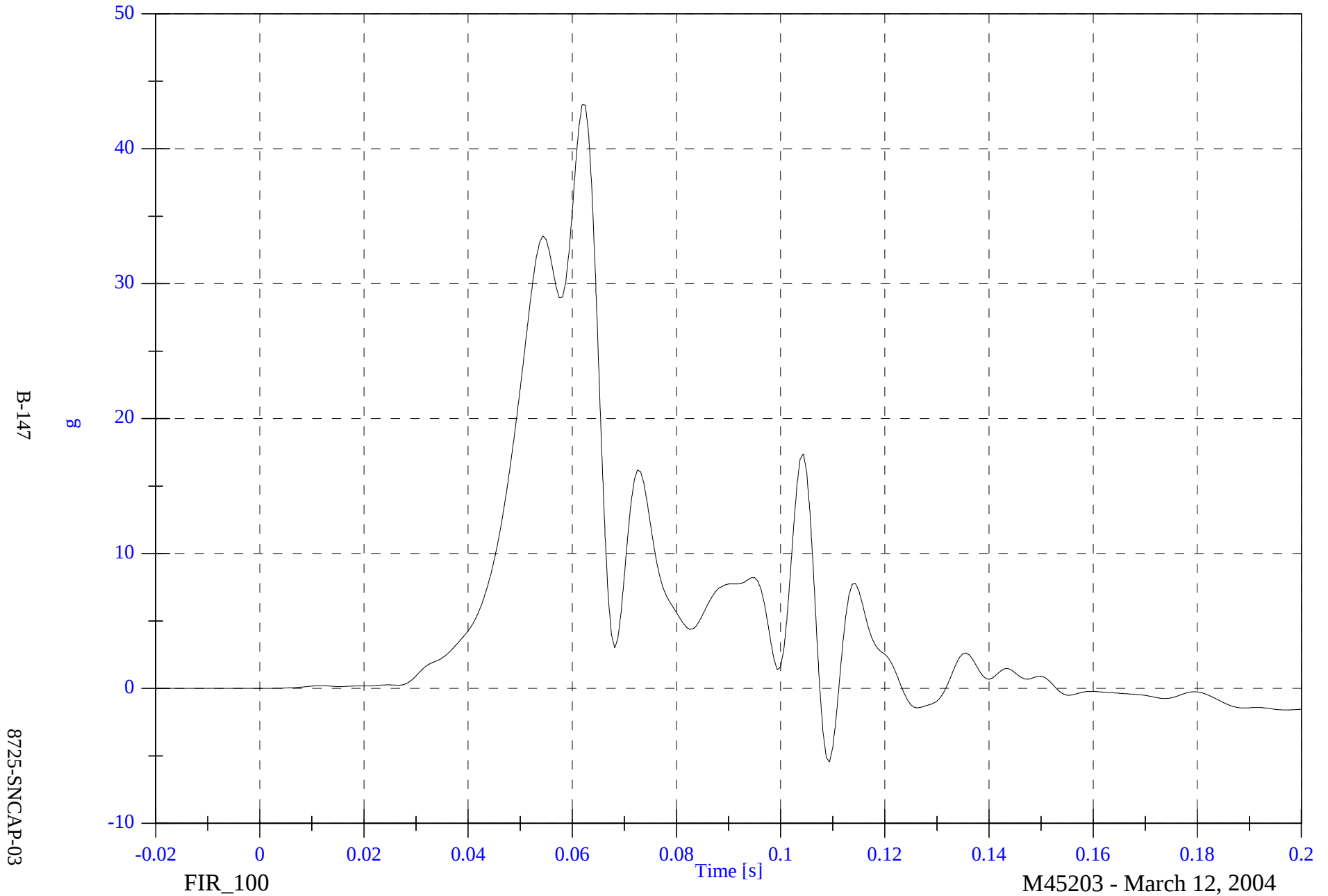


2004 SNCAP Test 3 2004 Infinity FX35/45

V2P4 Upper Rib Ry

Max: 43.3 [g] at 0.062 [s]

Min: -5.4 [g] at 0.109 [s]

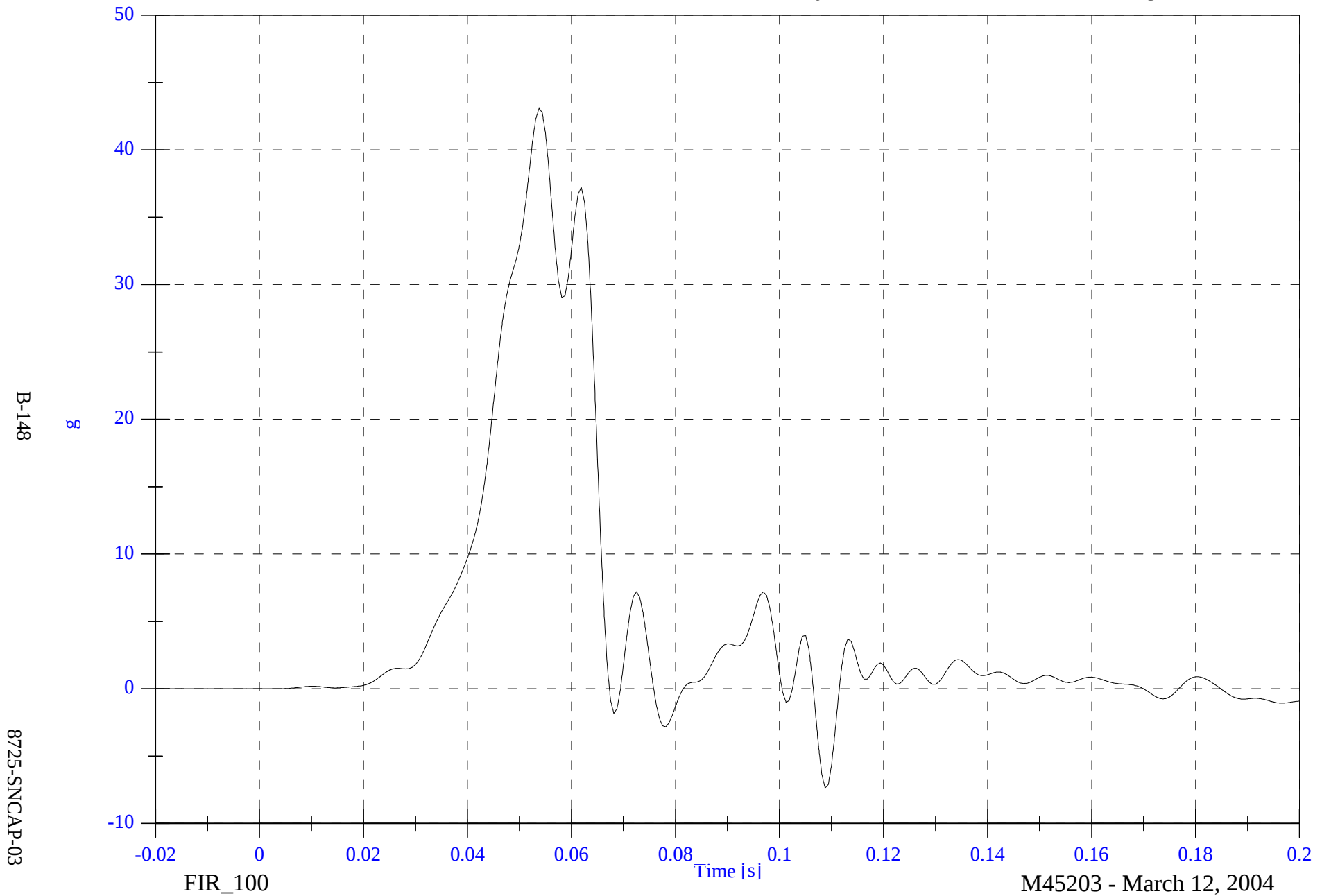


2004 SNCAP Test 3 2004 Infinity FX35/45

V2P4 Lower Rib Ry

Max: 43.1 [g] at 0.054 [s]

Min: -7.4 [g] at 0.109 [s]



2004 SNCAP Test 3 2004 Infinity FX35/45

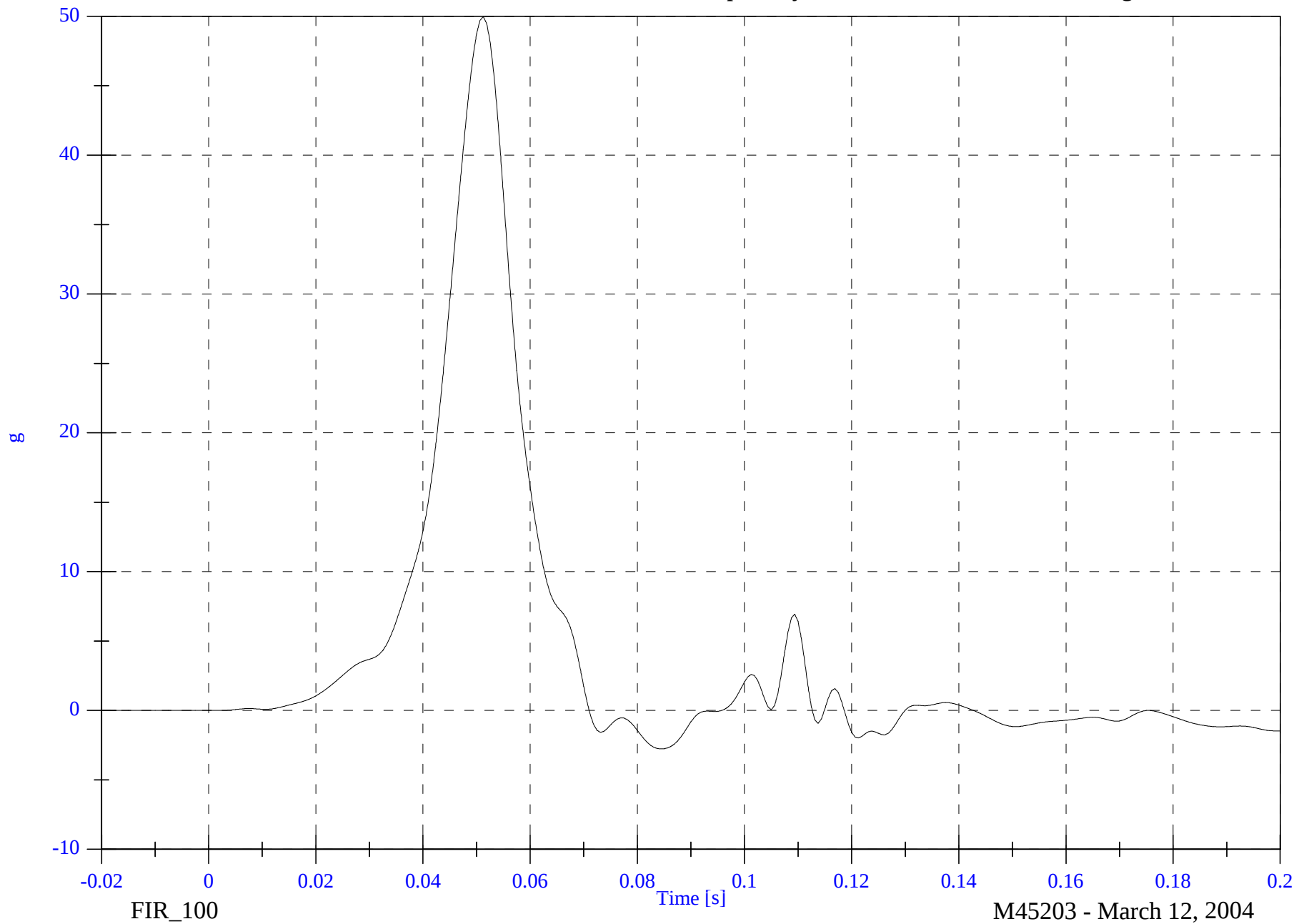
V2P4 Lower Spine Ry

Max: 50.0 [g] at 0.051 [s]

Min: -2.8 [g] at 0.084 [s]

B-149

8725-SNCAP-03



FIR_100

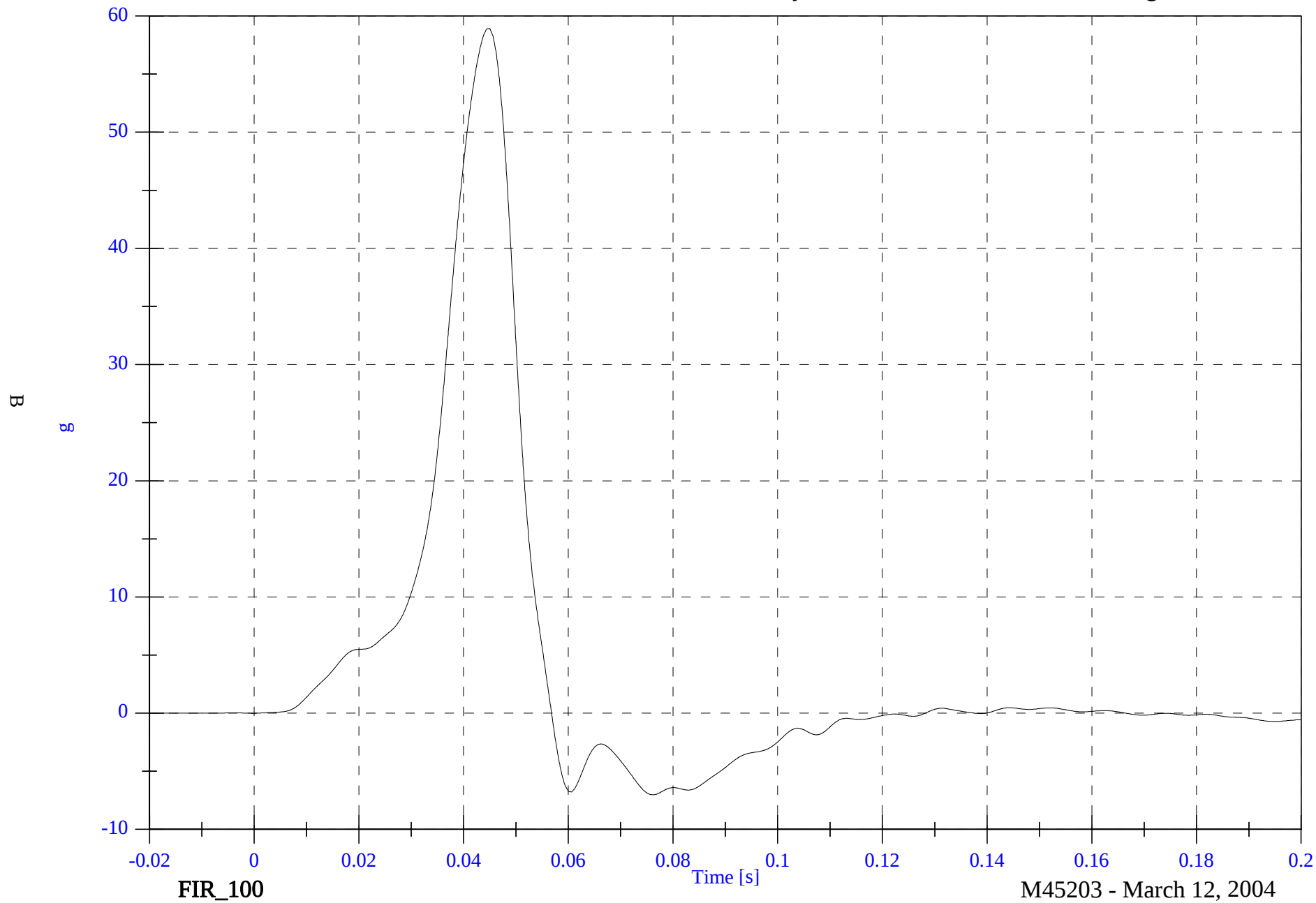
M45203 - March 12, 2004

2004 SNCAP Test 3 2004 Infinity FX35/45

V2P4 Pelvic Ry

Max: 58.9 [g] at 0.045 [s]

Min: -7.0 [g] at 0.076 [s]



APPENDIX C

SID HYBRID III CONFIGURATION AND PERFORMANCE VERIFICATION DATA

SUMMARY
SID H3 PRE & POST TEST CALIBRATION
CONFIGURED FOR LEFT SIDE IMPACT

Date: March 10, 2004 Sequential Test Number: 5 to 1
Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	SID H3 269 NO.:		SID H3 270 NO.:	
		PRE TEST	POST TEST	PRE TEST	POST TEST
SH- Seated Height (mm)	889 - 909	904	904	904	902
RH- Rib Height (mm)	501 - 521	503	503	505	505
HP- Hip Pivot Height (mm)	99 ref.	99	99	99	99
RD- Rib from Back Line (mm)	229 - 241	234	234	234	234
KV- Knee Pivot from Back Line (mm)	511 - 526	518	518	518	516
SW- Knee Pivot to Floor (mm)	490 - 505	495	495	495	495
HW- Hip Width (mm)	356 - 391	371	371	371	376
THORAX IMPACTS					
TEMPERATURE (°C)	18.9 - 25.5	21.1	21.1	21.1	21.1
RELATIVE HUMIDITY (%)	10 -70	35.0	35.0	30.0	28.0
PROBE SPEED (m/s)	4.27 - 4.33	4.31	4.31	4.32	4.33
UPPER RIB (g's)	37 - 46	37.48	42.46	39.52	42.58
LOWER RIB (g's)	37 - 46	37.55	40.68	37.53	41.06
LOWER SPINE (g's)	15 -22	18.49	21.19	18.50	21.04
PELVIS IMPACT					
TEMPERATURE (°C)	18.9 - 25.5	21.1	21.1	21.1	21.1
RELATIVE HUMIDITY (%)	10 - 70	35.0	35.0	28.0	48.0
PROBE SPEED (m/s)	4.27 - 4.33	4.30	4.28	4.31	4.33
PELVIS (g's)	40 -60	42.26	50.52	50.81	54.95

REMARKS: None

CALIBRATION TEST RESULTS

PRE-TEST

SID H3 NO.: 269

CONFIGURED FOR LEFT SIDE IMPACT

**CALIBRATION TEST RESULTS SUMMARY
PRE-TEST**

CONFIGURED FOR LEFT SIDE IMPACT

SID H3 Serial No.: 269 Sequential Test Number: 5
Date: March 10, 2004 Laboratory Technician: B. Swiecicki

TEST	COMMENTS
EXTERNAL DIMENSIONS	Passed all requirements.
THORACIC SHOCK ABSORBER TEST	Passed all requirements.
LATERAL THORAX IMPACT TEST	Passed all requirements.
LATERAL PELVIS IMPACT TEST	Passed all requirements.
HEAD DROP TEST*	Passed all requirements.
LATERAL NECK BEND TEST*	Passed all requirements.
ABDOMINAL COMPRESSION TEST*	Passed all requirements.
LUMBAR FLEXION TEST*	Passed all requirements.

* Test not required for SID certification.

REMARKS: None

**EXTERNAL DIMENSIONS
PRE-TEST**

CONFIGURED FOR LEFT SIDE IMPACT

SID H3 Serial No.: 269 Sequential Test Number: 5
Date: March 10, 2004 Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS
SH- Seated Height (mm)	889 – 909	904
RH- Rib Height (mm)	502 – 520	503
HP- Hip Pivot Height (mm)	99 ref.	99
RD- Rib from Back Line (mm)	229 – 241	234
KH- Knee Pivot from Back Line (mm)	511 – 526	518
KV- Knee Pivot to Floor (mm)	490 – 505	495
HW- Hip Width (mm)	356 - 391	371

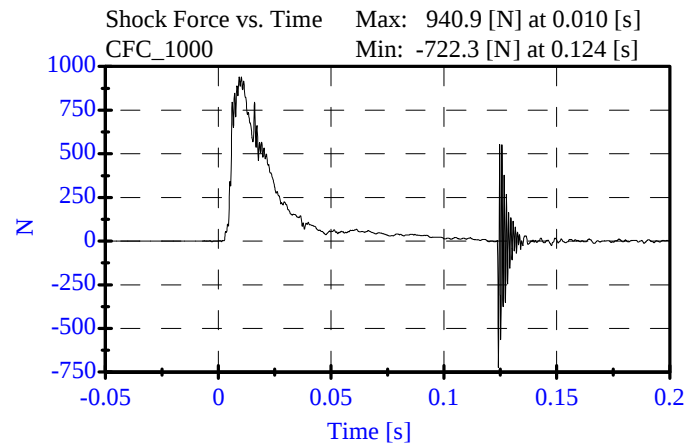
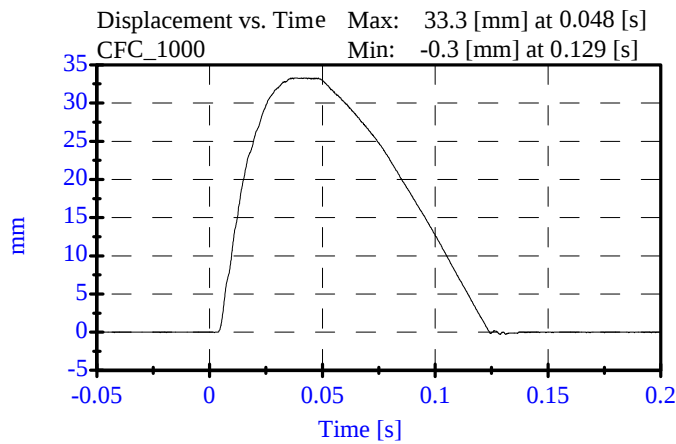
REMARKS: None

Shock Low (3.05 m/s)
PRE TEST
CONFIGURED FOR LEFT SIDE IMPACT

ATD Serial No: 269
Date: 09-22-03

Sequential Test Number: 1 File: 269SL1 09-22-03
Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS	STATUS
Lab Temperature:	18.9-25.5 C	21.1 C	Passed
Lab Humidity:	10-70 %	33.00 %	Passed
Displacement:	30.00-35.00 mm	33.29 mm	Passed
Maximum Force:	836.00-1125.00 N	940.88 N	Passed
Impact Test Velocity:	3.05 m/s		
Damper Identification:	269		
Damper Setting:	5		

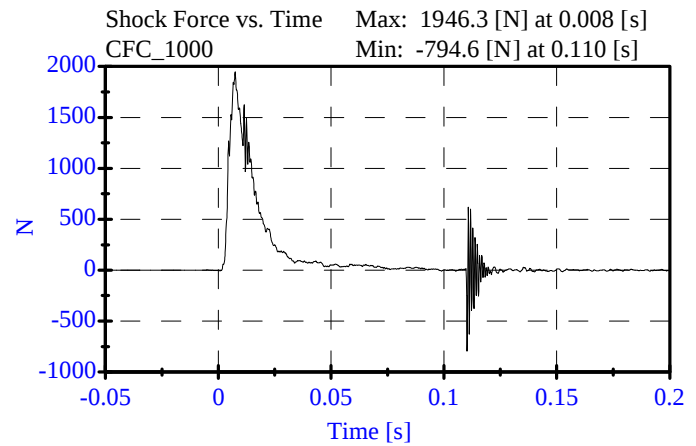
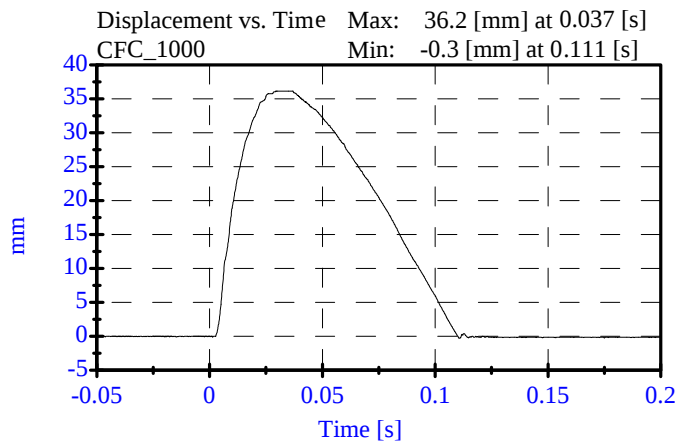


Shock Med (4.27 m/s)
PRE TEST
CONFIGURED FOR LEFT SIDE IMPACT

ATD Serial No: 269
Date: 09-22-03

Sequential Test Number: 1 File: 269SM 09-22-03
Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS	STATUS
Lab Temperature:	18.9-25.5 C	21.1 C	Passed
Lab Humidity:	10-70 %	33.00 %	Passed
Displacement:	32.00-37.00 mm	36.17 mm	Passed
Maximum Force:	1730.00-2099.00 N	1946.25 N	Passed
Impact Test Velocity:	4.27 m/s		
Damper Identification:	269		
Damper Setting:	5		

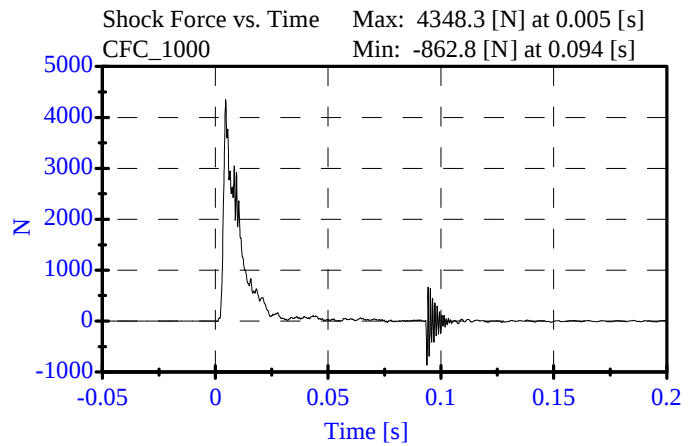
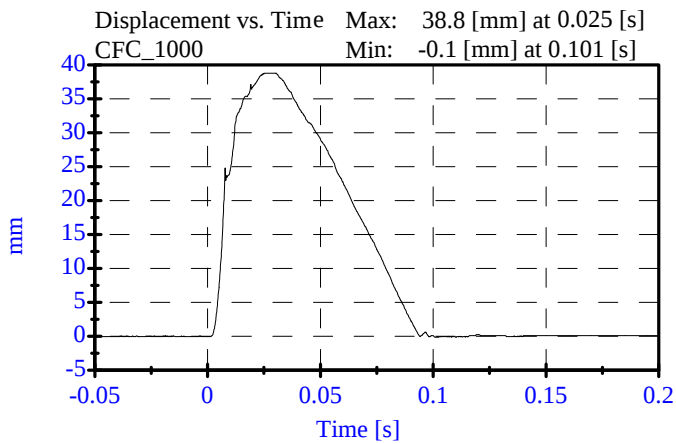


Shock High (6.10 m/s)
PRE TEST
CONFIGURED FOR LEFT SIDE IMPACT

ATD Serial No: 269
Date: 09-22-03

Sequential Test Number: 1 File: 269SH 09-22-03
Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS	STATUS
Lab Temperature:	18.9-25.5 C	21.1 C	Passed
Lab Humidity:	10-70 %	33.00 %	Passed
Displacement:	33.00-40.00 mm	38.76 mm	Passed
Maximum Force:	3741.00-4448.00 N	4348.34 N	Passed
Impact Test Velocity:	6.10 m/s		
Damper Identification:	269		
Damper Setting:	5		

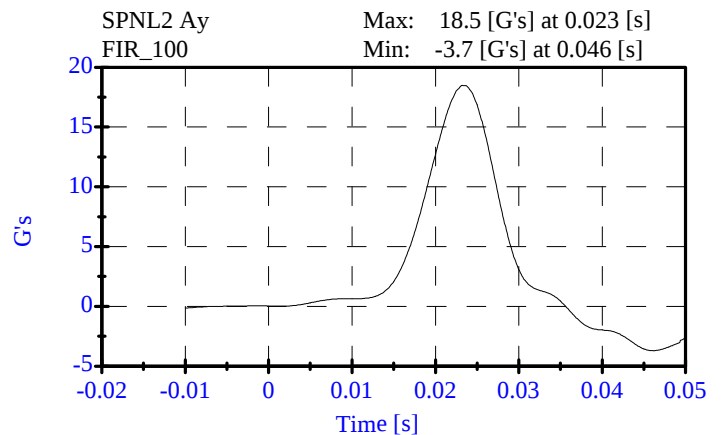
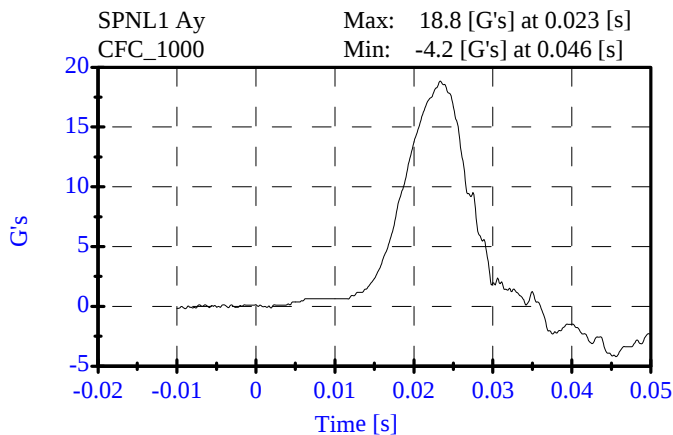
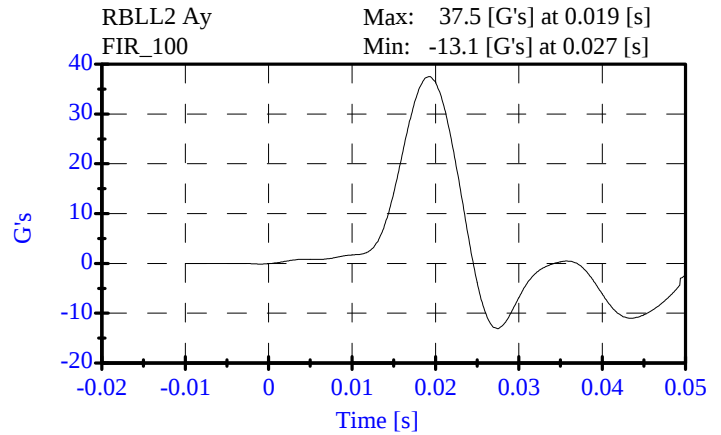
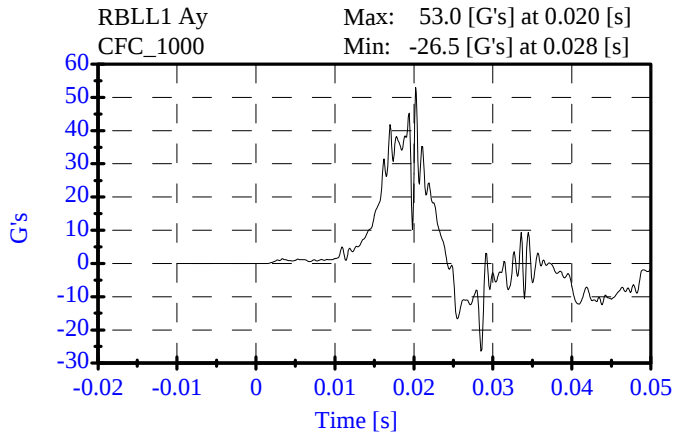
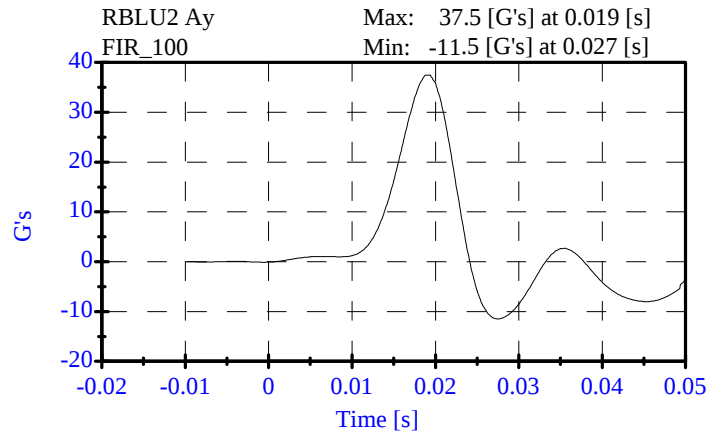
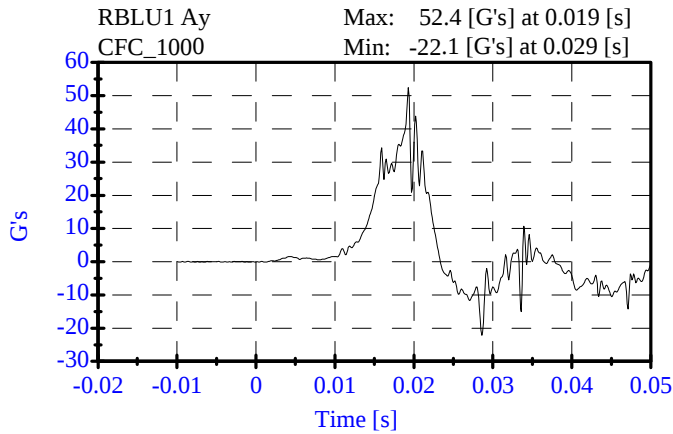


Thora Impact
Pre-Test
CONFIGURED FOR LEFT SIDE IMPACT

ATD Serial No: 269
Date: 03-09-04

Sequential Test Number: 1 File: 269T 03-09-04
Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS	STATUS
Lab Temperature:	18.9-25.5 C	21.1 C	Passed
Lab Humidity:	10-70 %	35.00 %	Passed
Probe Velocity:	4.27- 4.33 m/s	4.31 m/s	Passed
Upper Rib Acceleration:	37.00-46.00 G's	37.48 G's	Passed
Lower Rib Acceleration:	37.00-46.00 G's	37.55 G's	Passed
Lower Spine Acceleration:	15.00-22.00 G's	18.49 G's	Passed



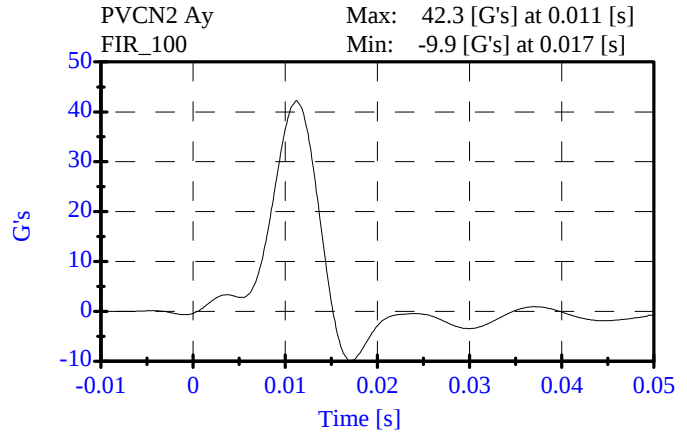
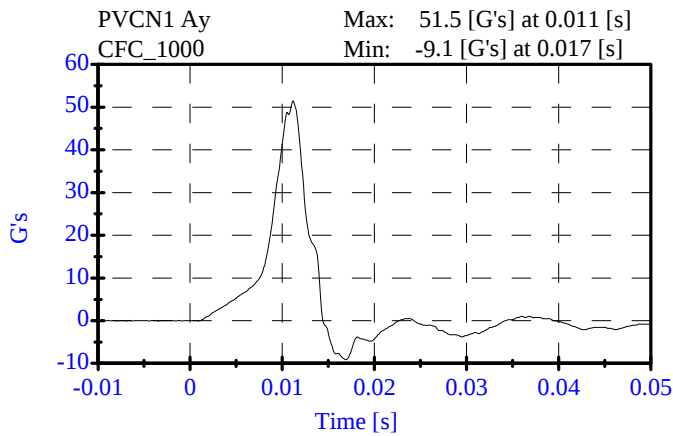
Pelvic Impact
Pre-Test

CONFIGURED FOR LEFT SIDE IMPACT

ATD Serial No: 269
Date: 03-09-04

Sequential Test Number: 1 File: 269P1 03-09-04
Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS	STATUS
Lab Temperature:	18.9-25.5 C	21.1 C	Passed
Lab Humidity:	10-70 %	35.00 %	Passed
Probe Velocity:	4.27- 4.33 m/s	4.30 m/s	Passed
Pelvis Y Acceleration:	40.00-60.00 G's	42.26 G's	Passed



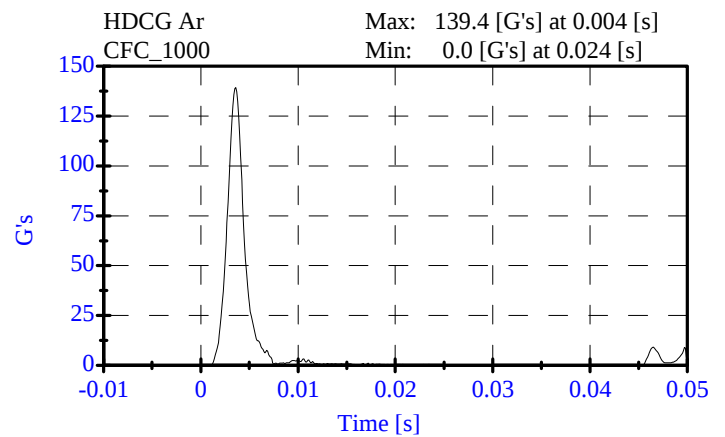
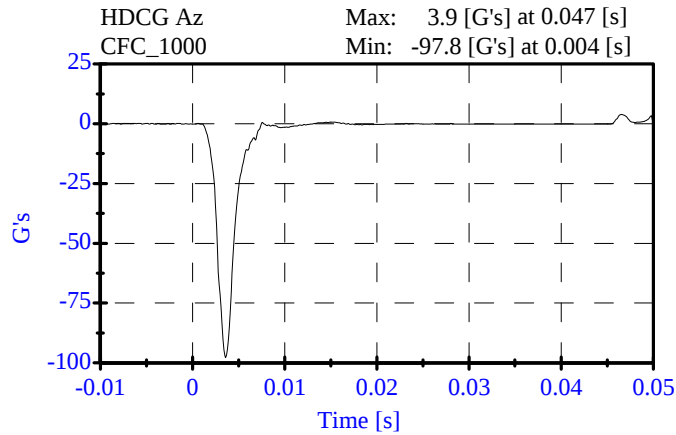
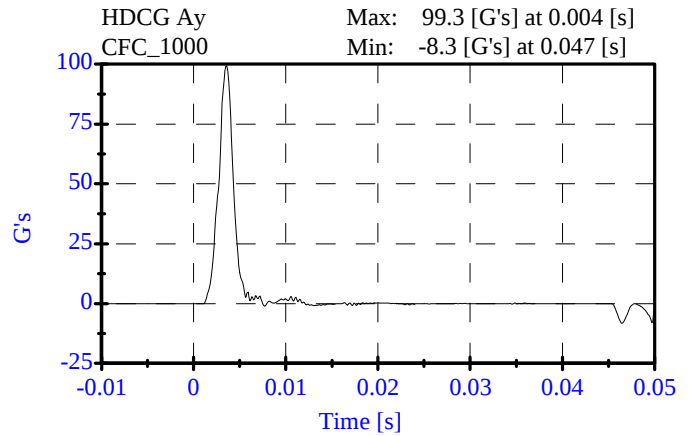
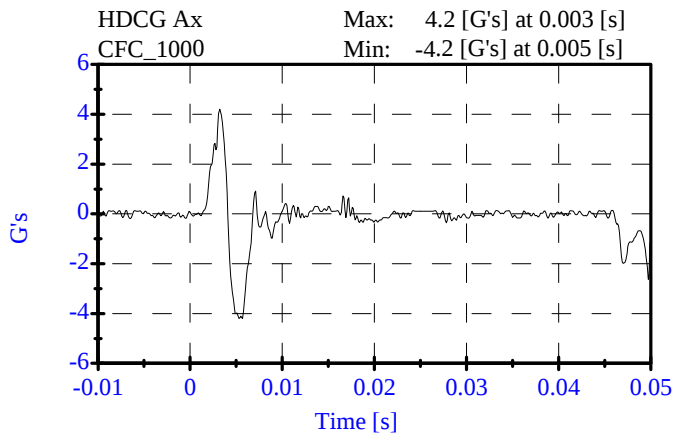
Head Drop Pre-Test

CONFIGURED FOR LEFT SIDE IMPACT

ATD Serial No: 269
Date: 03-09-04

Sequential Test Number: 1 File: 269H1 03-09-04
Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS	STATUS
Lab Temperature:	20.6-22.2 C	21.1 C	Passed
Lab Humidity:	10-70 %	35.00 %	Passed
Peak Resultant Accel.:	120-150 Gs	139.40 Gs	Passed
Peak Lateral Accel.:	15 Gs Max	4.21 Gs	Passed
Curve PerCent NonModal:	< 15%	6.57 %	Passed



**Neck Test
Pre-Test**

CONFIGURED FOR LEFT SIDE IMPACT

ATD Serial No: 269
Date: 03-09-04

Sequential Test Number: 1 File: 269N 03-09-04
Laboratory Technician: B. Swiecicki

<u>TEST PARAMETER</u>	<u>SPECIFICATION</u>	<u>TEST RESULTS</u>	<u>STATUS</u>
Lab Temperature:	20.6-22.2 C	21.1 C	Passed
Lab Humidity:	10-70 %	35.00 %	Passed
Impact Velocity:	6.89- 7.13 m/s	7.09 m/s	Passed
PENDULUM DELTA V			
Delta V at 10 ms:	1.96- 2.55 m/s	2.18 m/s	Passed
Delta V at 20 ms:	4.12- 5.10 m/s	4.45 m/s	Passed
Delta V at 30 ms:	5.73- 7.01 m/s	6.20 m/s	Passed
Delta V between 40-70 ms:	6.27- 7.64 m/s	7.02 m/s	Passed
D PLANE ROTATION			
Maximum Rotation:	64.0-78.0 Deg	74.99 Deg	Passed
Rotation Angle Decay:	50.0-70.0 ms	61.80 ms	Passed
MOMENT ABOUT THE OCCIPITAL CONDYLE			
Max Occipital Moment:	88.00-108.00 N-m	89.38 N-m	Passed
Occipital Moment Decay:	40.0-60.0 ms	55.40 ms	Passed
HEAD ROTATION TIME WITH RESPECT TO THE OCCIPITAL CONDYLE MOMENT			
Moment to Rotation Peak:	0.0-20.0 ms	10.00 ms	Passed

Neck Test
Pre-Test
CONFIGURED FOR LEFT SIDE IMPACT

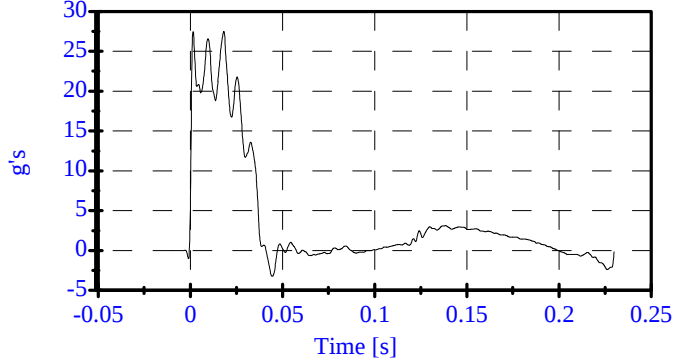
ATD Serial No: 269

Date: 03-09-04

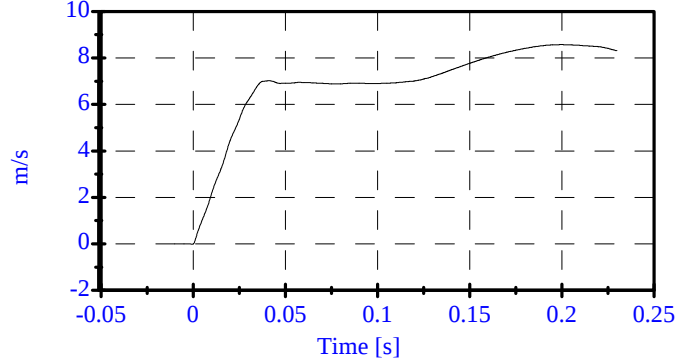
Sequential Test Number: 1 File: 269N 03-09-04

Laboratory Technician: B. Swiecicki

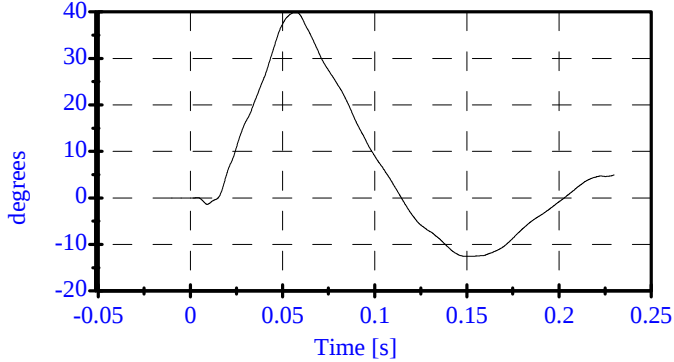
Pend Ax
CFC_180
Max: 27.5 [g's] at 0.018 [s]
Min: -3.2 [g's] at 0.044 [s]



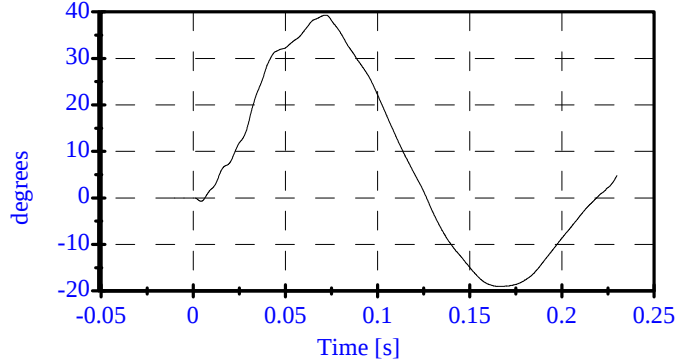
Pend Vx
CFC_180
Max: 8.6 [m/s] at 0.200 [s]
Min: -0.0 [m/s] at -0.001 [s]



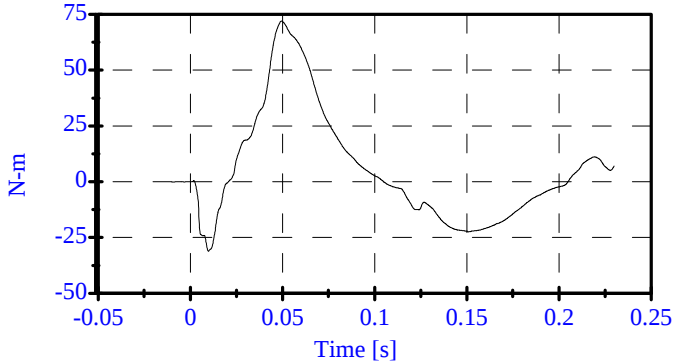
Head Rot
CFC_180
Max: 39.9 [degrees] at 0.057 [s]
Min: -12.5 [degrees] at 0.149 [s]



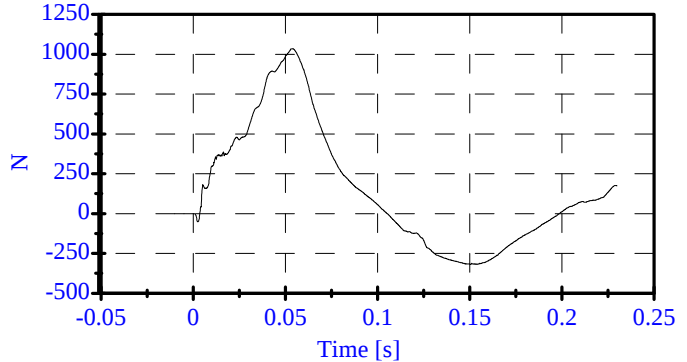
Arm Rot
CFC_180
Max: 39.3 [degrees] at 0.072 [s]
Min: -19.0 [degrees] at 0.165 [s]



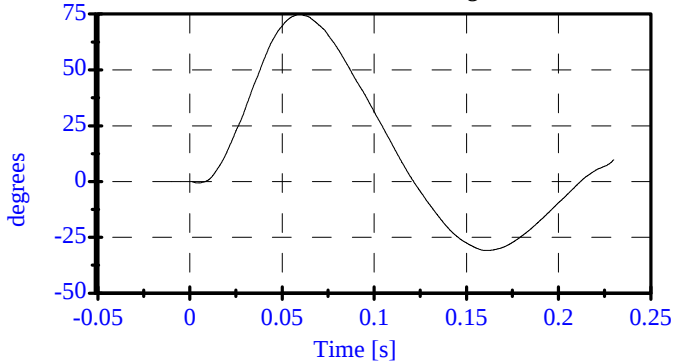
Neck Mx
CFC_600
Max: 72.0 [N-m] at 0.049 [s]
Min: -31.1 [N-m] at 0.010 [s]



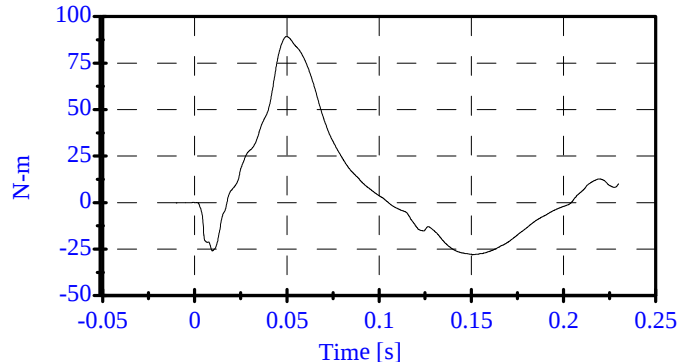
Neck Fy
CFC_1000
Max: 1035.6 [N] at 0.054 [s]
Min: -319.0 [N] at 0.151 [s]



Tot Rot
CFC_180
Max: 75.0 [degrees] at 0.060 [s]
Min: -30.8 [degrees] at 0.160 [s]



Mocyc
Max: 89.4 [N-m] at 0.050 [s]
Min: -28.1 [N-m] at 0.151 [s]



**ABDOMINAL COMPRESSION TEST
PRE-TEST**

(Test not required for SID certification)

CONFIGURED FOR LEFT SIDE IMPACT

SID H3 Serial No.: 269

Date: March 10, 2004

Sequential Test Number:

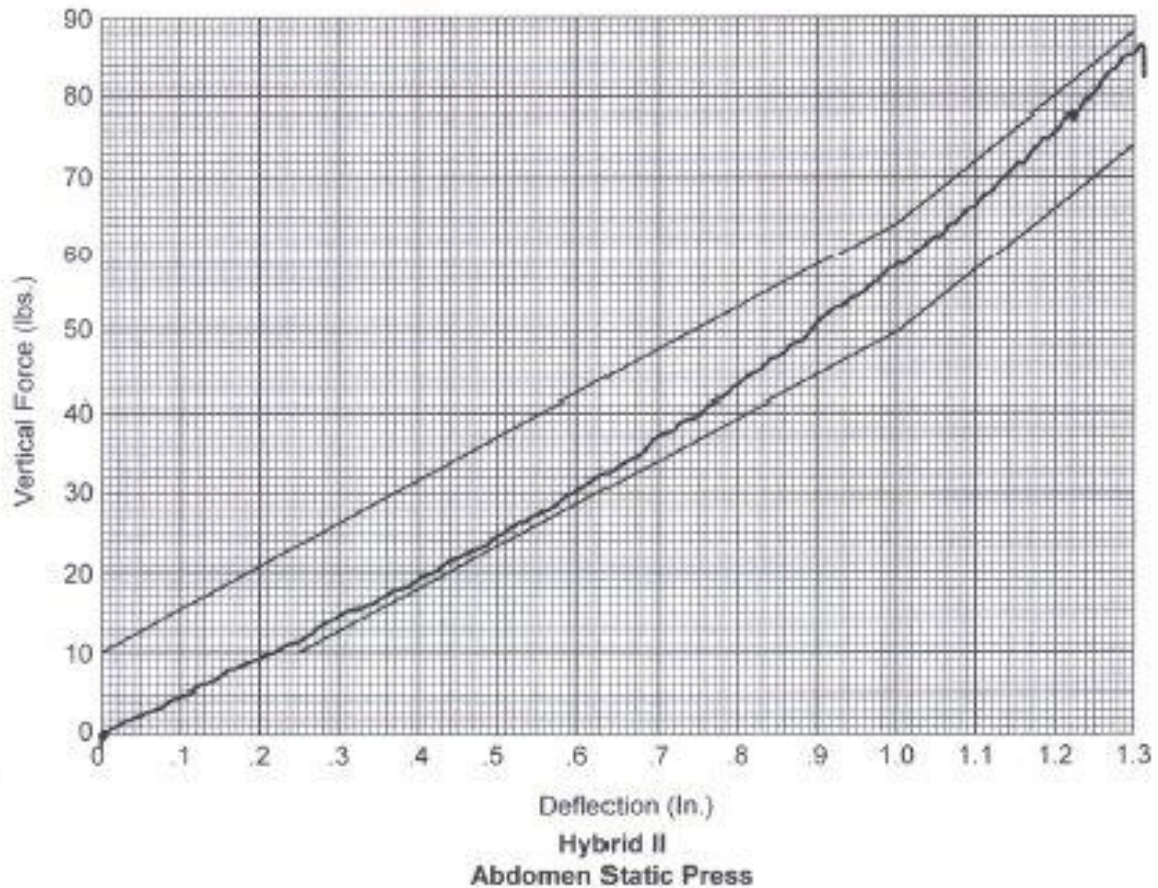
Laboratory Technician:

5

B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE (°C)	18.9 - 25.5	21.1
RELATIVE HUMIDITY (%)	10 - 70	31.0
FORCE @ 13 mm (N)	104 - 162	111.2
FORCE @ 19 mm (N)	163 - 221	171.9
FORCE @ 25 mm (N)	222 - 280	261.1
FORCE @ 33 mm (N)	325 - 391	378.1

REMARKS: None



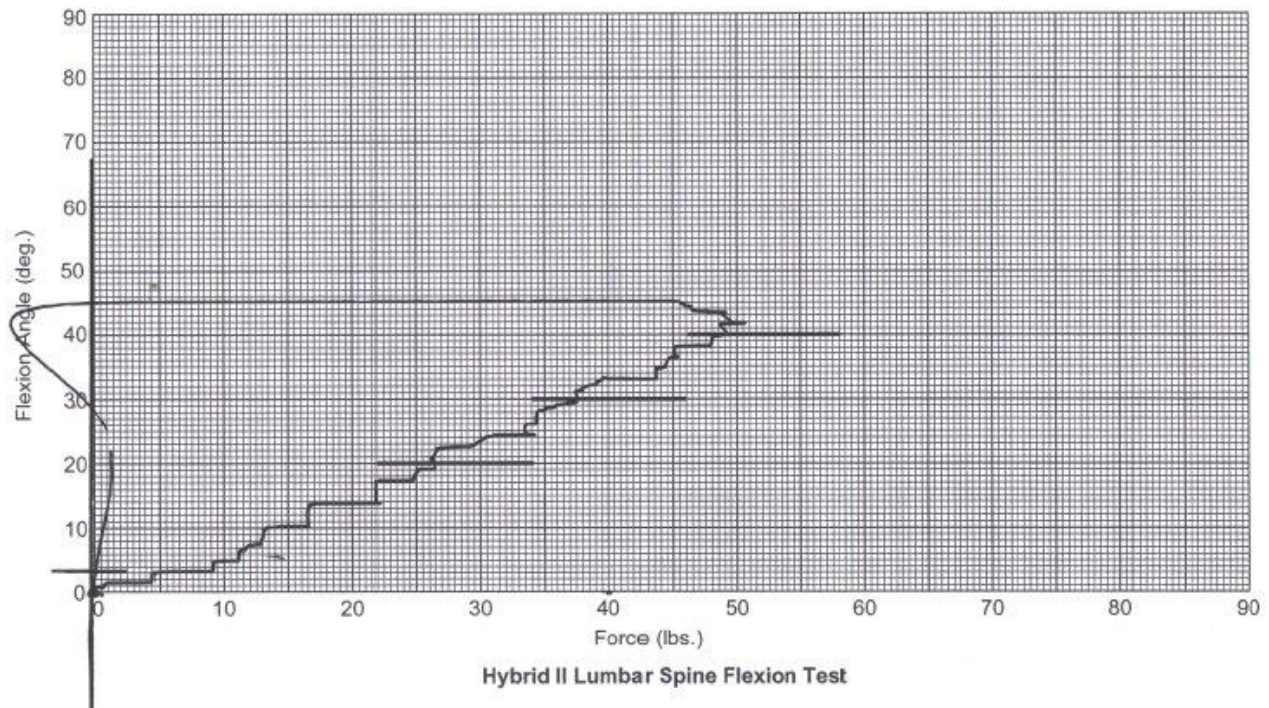
LUMBAR FLEXION TEST
PRE-TEST
(Test not required for SID certification)

CONFIGURED FOR LEFT SIDE IMPACT

SID H3 Serial No.: 269	Sequential Test Number: 5	
Date: March 10, 2004	Laboratory Technician: B. Swiecicki	

TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE (°C)	18.9 - 25.5	21.1
RELATIVE HUMIDITY (%)	10 - 70	31.0
FORCE @ 0° (N)	0 - 26.7	0
FORCE @ 20° (N)	97.8 - 151.2	117.9
FORCE @ 30° (N)	151.2 - 204.6	166.8
FORCE @ 40° (N)	204.6 - 258	219.3
RETURN ANGLE	12° max.	3°

REMARKS: None



PRE-TEST DUMMY INSPECTION LIST
CONFIGURED FOR LEFT SIDE IMPACT

SID H3 Serial No.: 269 Sequential Test Number: 5
Date: March 10, 2004 Laboratory Technician: B. Swiecicki

PART	ITEMS CHECKED	COMMENTS
SKIN	VISUAL INSPECTION	OK
HEAD	VISUAL, BALLAST, ACCELEROMETER MOUNT	OK
NECK	VISUAL, CABLE TORQUE	OK
SPINE BOX	VISUAL, BALLAST, WELDMENT, ACCELEROMETER MOUNT	OK
RIB CAGE	VISUAL, MEASURE, STIFFENERS	OK
STERNUM	VISUAL	OK
LUMBAR SPINE	VISUAL	OK
ABDOMEN	VISUAL	OK
PELVIS	VISUAL, PALPATE, ACCELEROMETER MOUNT	OK
UPPER LEGS	VISUAL	OK
KNEES	VISUAL, STOPS, INSERTS	OK
LOWER LEGS	VISUAL, RANGE OF MOTION	OK
ANKLES	VISUAL, RANGE OF MOTION	OK
FEET	VISUAL, RANGE OF MOTION	OK
JOINTS	1 TO 2 g RANGE	OK
OTHER	NONE	-

REMARKS: None

CALIBRATION TEST RESULTS

PRE-TEST

SID H3 NO.: 270

CONFIGURED FOR LEFT SIDE IMPACT

**CALIBRATION TEST RESULTS SUMMARY
PRE-TEST**

CONFIGURED FOR LEFT SIDE IMPACT

SID H3 Serial No.: 270 Sequential Test Number: 5
Date: March 10, 2004 Laboratory Technician: B. Swiecicki

TEST	COMMENTS
EXTERNAL DIMENSIONS	Passed all requirements.
THORACIC SHOCK ABSORBER TEST	Passed all requirements.
LATERAL THORAX IMPACT TEST	Passed all requirements.
LATERAL PELVIS IMPACT TEST	Passed all requirements.
HEAD DROP TEST*	Passed all requirements.
LATERAL NECK BEND TEST*	Passed all requirements.
ABDOMINAL COMPRESSION TEST*	Passed all requirements.
LUMBAR FLEXION TEST*	Passed all requirements.

* Test not required for SID certification.

REMARKS: None

**EXTERNAL DIMENSIONS
PRE-TEST**

CONFIGURED FOR LEFT SIDE IMPACT

SID H3 Serial No.: 270 Sequential Test Number: 5
Date: March 10, 2004 Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS
SH- Seated Height (mm)	889 - 909	902
RH- Rib Height (mm)	502 - 520	506
HP- Hip Pivot Height (mm)	99 ref.	99
RD- Rib from Back Line (mm)	229 - 241	234
KH- Knee Pivot from Back Line (mm)	511 - 526	516
KV- Knee Pivot to Floor (mm)	490 - 505	495
HW- Hip Width (mm)	356 - 391	376

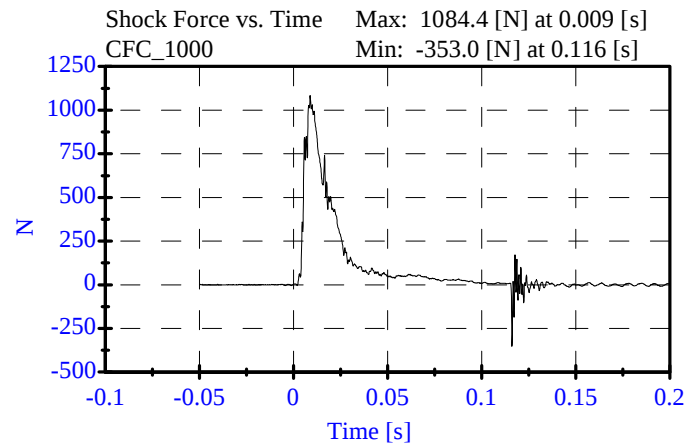
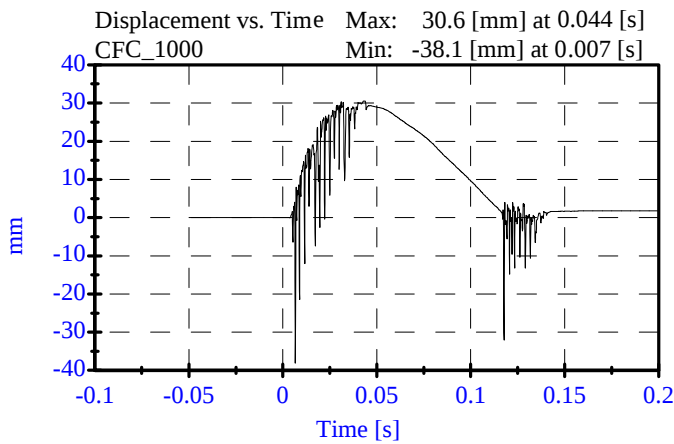
REMARKS: None

SID SHOCK LOW (3.05 m/s)
PRE TEST
CONFIGURED FOR LEFT SIDE IMPACT

ATD Serial No: 270
Date: 07-15-03

Sequential Test Number: 1 File: 270SL2 7-15-03
Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS	STATUS
Lab Temperature:	18.9-25.5 C	21.1 C	Passed
Lab Humidity:	10-70 %	27.00 %	Passed
Displacement:	30.00-35.00 mm	30.58 mm	Passed
Maximum Force:	836.00-1125.00 N	1084.44 N	Passed
Impact Test Velocity:	3.05 m/s		
Damper Identification:	270		
Damper Setting:	5		

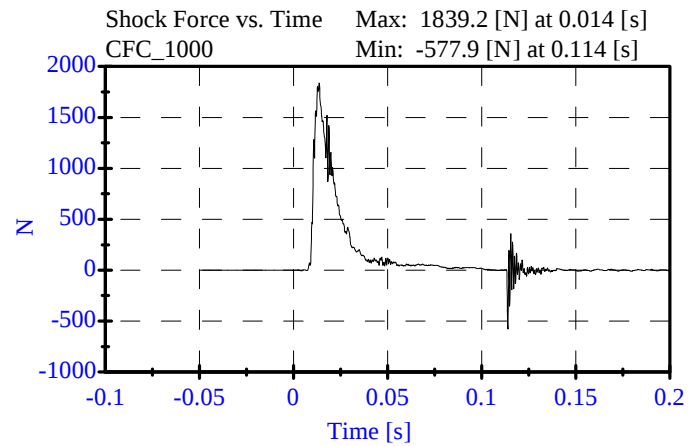
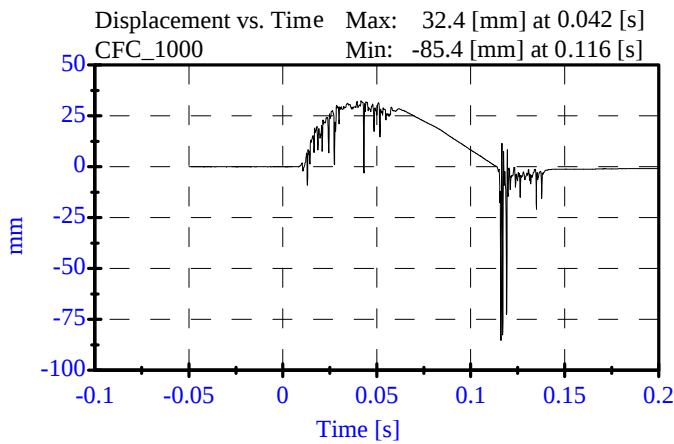


SID SHOCK MED (4.27 m/s)
PRE TEST
CONFIGURED FOR LEFT SIDE IMPACT

ATD Serial No: 270
Date: 07-15-03

Sequential Test Number: 1 File: 270SM2 7-15-03
Laboratory Technician: B. Swiecicki

<u>TEST PARAMETER</u>	<u>SPECIFICATION</u>	<u>TEST RESULTS</u>	<u>STATUS</u>
Lab Temperature:	18.9-25.5 C	21.1 C	Passed
Lab Humidity:	10-70 %	27.00 %	Passed
Displacement:	32.00-37.00 mm	32.36 mm	Passed
Maximum Force:	1730.00-2099.00 N	1839.24 N	Passed
Impact Test Velocity:	4.27 m/s		
Damper Identification:	270		
Damper Setting:	5		

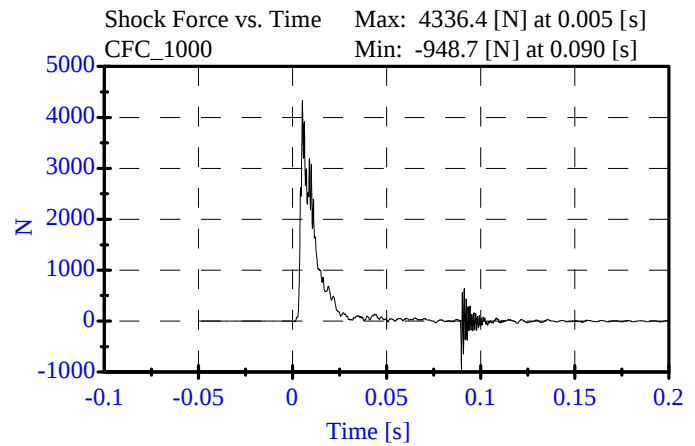
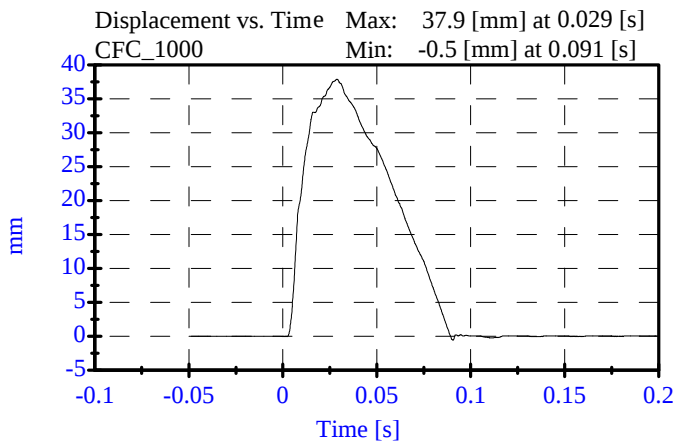


Shock - High (6.10 m/s)
PRE TEST
CONFIGURED FOR LEFT SIDE IMPACT

ATD Serial No: 270
Date: 07-15-03

Sequential Test Number: 1 File: 270SH1 7-15-03
Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS	STATUS
Lab Temperature:	18.9-25.5 C	21.1 C	Passed
Lab Humidity:	10-70 %	27.00 %	Passed
Displacement:	33.00-40.00 mm	37.86 mm	Passed
Maximum Force:	3741.00-4448.00 N	4336.39 N	Passed
Impact Test Velocity:	6.10 m/s		
Damper Identification:	270		
Damper Setting:	5		

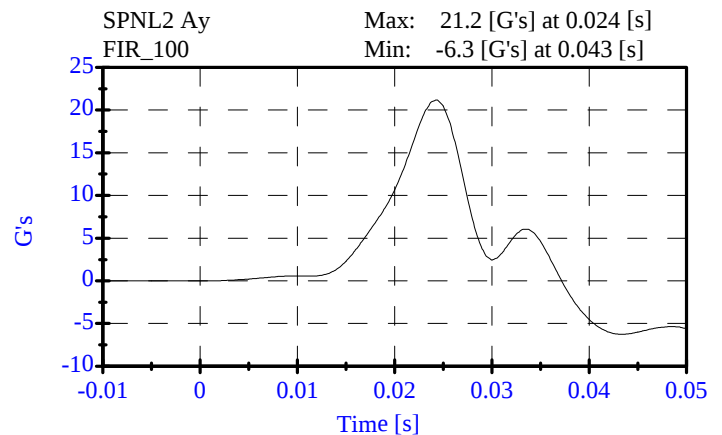
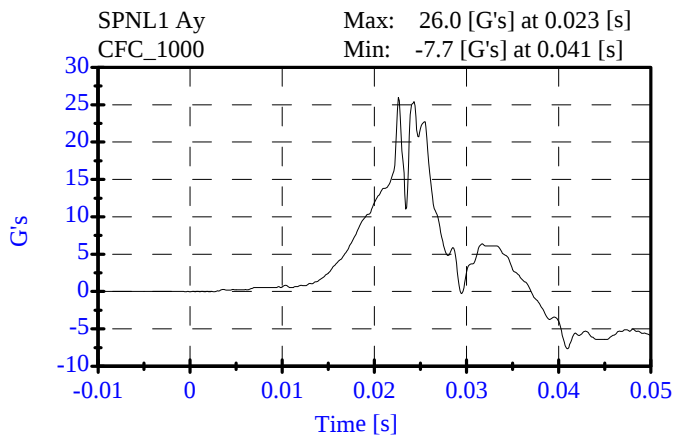
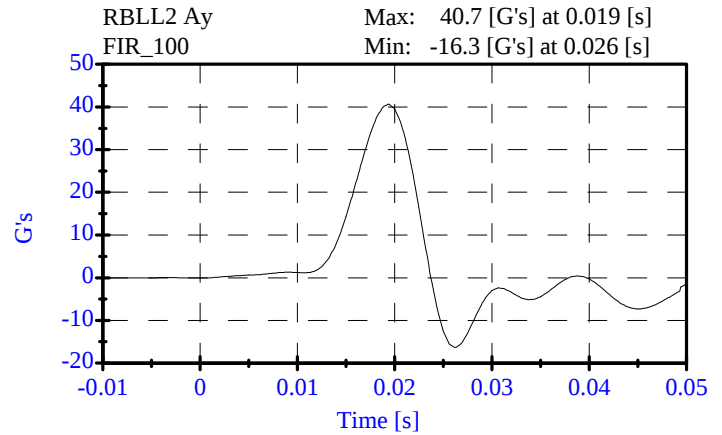
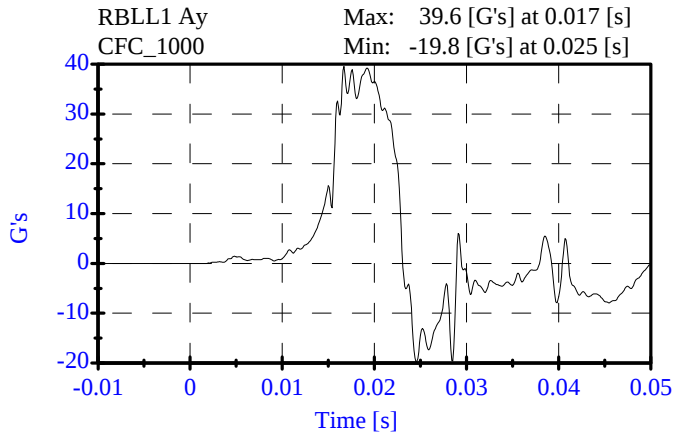
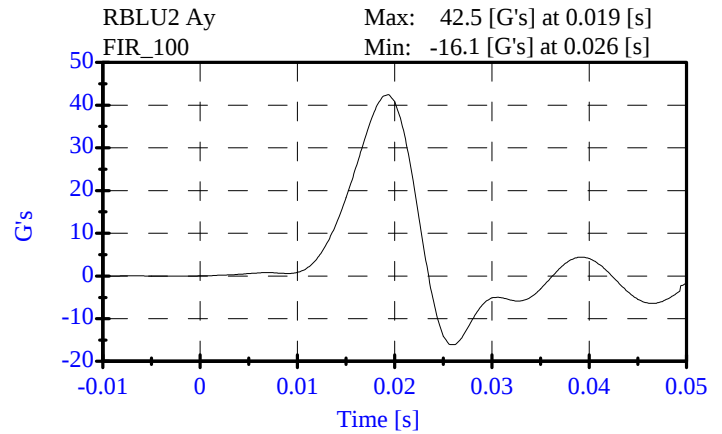
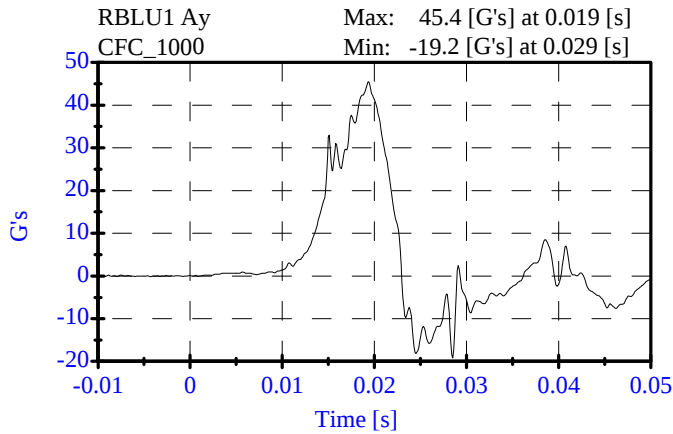


Thora Impact
Pre-Test
CONFIGURED FOR LEFT SIDE IMPACT

ATD Serial No: 270
Date: 03-09-04

Sequential Test Number: 1 File: 270T 03-09-04
Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS	STATUS
Lab Temperature:	18.9-25.5 C	21.1 C	Passed
Lab Humidity:	10-70 %	35.00 %	Passed
Probe Velocity:	4.27- 4.33 m/s	4.31 m/s	Passed
Upper Rib Acceleration:	37.00-46.00 G's	42.46 G's	Passed
Lower Rib Acceleration:	37.00-46.00 G's	40.68 G's	Passed
Lower Spine Acceleration:	15.00-22.00 G's	21.19 G's	Passed



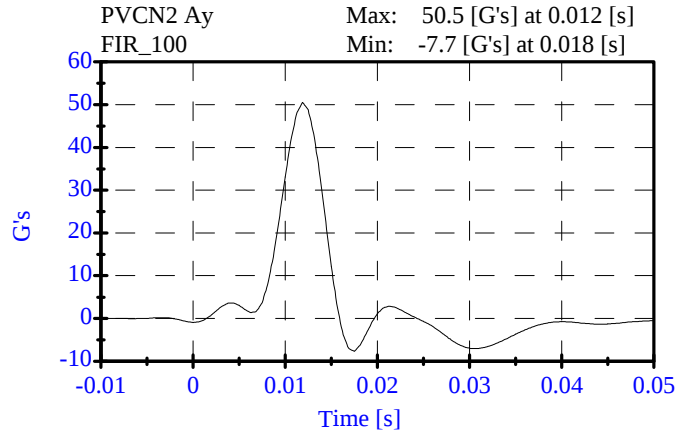
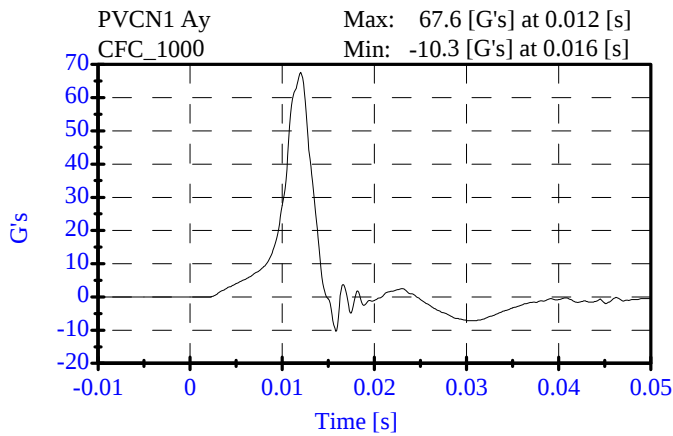
Pelvic Impact Pre-Test

CONFIGURED FOR LEFT SIDE IMPACT

ATD Serial No: 270
Date: 03-09-04

Sequential Test Number: 1 File: 270P 03-09-04
Laboratory Technician: B. Swiecicki

<u>TEST PARAMETER</u>	<u>SPECIFICATION</u>	<u>TEST RESULTS</u>	<u>STATUS</u>
Lab Temperature:	18.9-25.5 C	21.1 C	Passed
Lab Humidity:	10-70 %	35.00 %	Passed
Probe Velocity:	4.27- 4.33 m/s	4.28 m/s	Passed
Pelvis Y Acceleration:	40.00-60.00 G's	50.52 G's	Passed

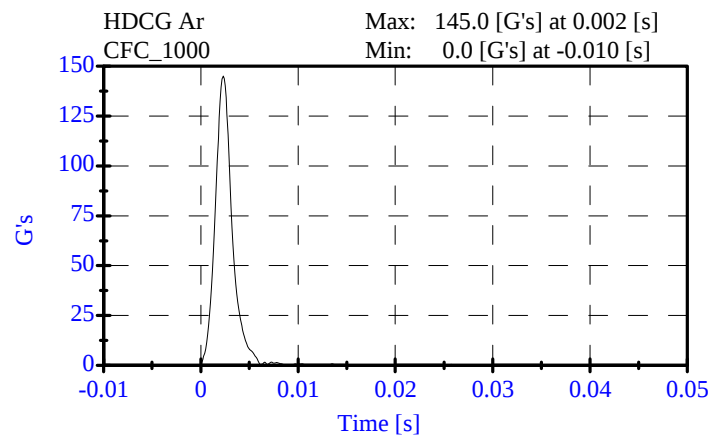
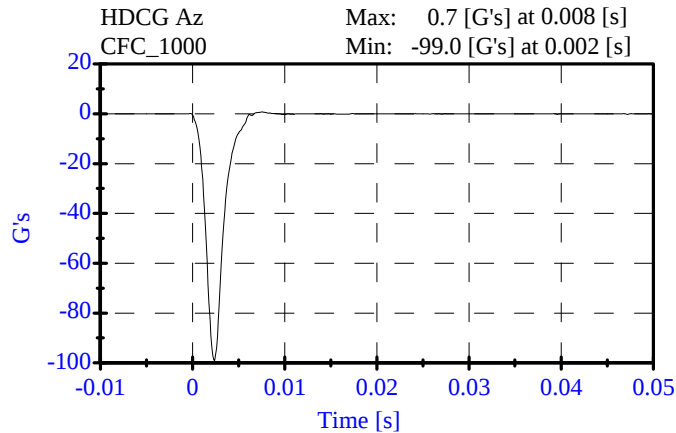
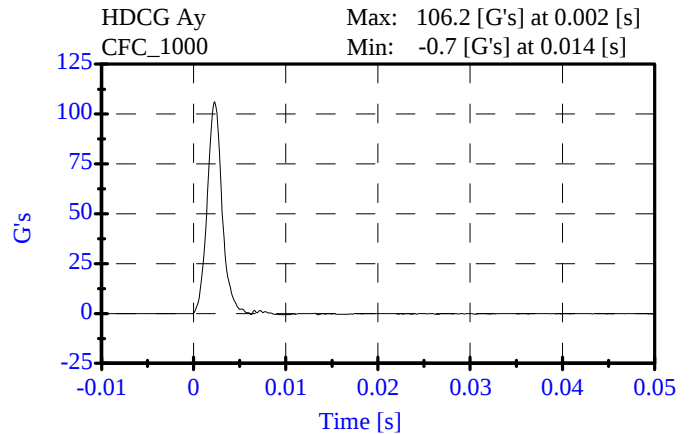
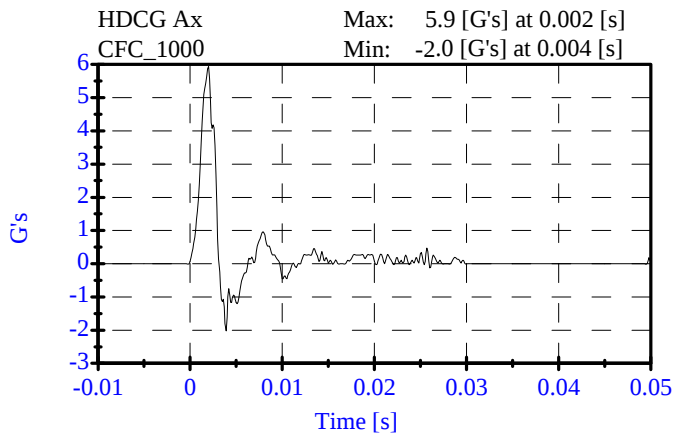


Head Drop **Pre-Test** **CONFIGURED FOR LEFT SIDE IMPACT**

ATD Serial No: 270
Date: 03-09-04

Sequential Test Number: 1 File: 270H 03-09-04
Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS	STATUS
Lab Temperature:	20.6-22.2 C	21.1 C	Passed
Lab Humidity:	10-70 %	35.00 %	Passed
Peak Resultant Accel.:	120-150 Gs	145.04 Gs	Passed
Peak Lateral Accel.:	15 Gs Max	5.93 Gs	Passed
Curve PerCent NonModal:	< 15%	1.16 %	Passed



**Neck Test
Pre-Test**

CONFIGURED FOR LEFT SIDE IMPACT

ATD Serial No: 270
Date: 03-09-04

Sequential Test Number: 1 File: 270N 03-09-04
Laboratory Technician: B. Swiecicki

<u>TEST PARAMETER</u>	<u>SPECIFICATION</u>	<u>TEST RESULTS</u>	<u>STATUS</u>
Lab Temperature:	20.6-22.2 C	21.1 C	Passed
Lab Humidity:	10-70 %	35.00 %	Passed
Impact Velocity:	6.89- 7.13 m/s	6.90 m/s	Passed
PENDULUM DELTA V			
Delta V at 10 ms:	1.96- 2.55 m/s	2.12 m/s	Passed
Delta V at 20 ms:	4.12- 5.10 m/s	4.29 m/s	Passed
Delta V at 30 ms:	5.73- 7.01 m/s	6.06 m/s	Passed
Delta V between 40-70 ms:	6.27- 7.64 m/s	7.05 m/s	Passed
D PLANE ROTATION			
Maximum Rotation:	64.0-78.0 Deg	75.31 Deg	Passed
Rotation Angle Decay:	50.0-70.0 ms	61.30 ms	Passed
MOMENT ABOUT THE OCCIPITAL CONDYLE			
Max Occipital Moment:	88.00-108.00 N-m	88.51 N-m	Passed
Occipital Moment Decay:	40.0-60.0 ms	53.70 ms	Passed
HEAD ROTATION TIME WITH RESPECT TO THE OCCIPITAL CONDYLE MOMENT			
Moment to Rotation Peak:	0.0-20.0 ms	8.40 ms	Passed

Neck Test
Pre-Test
CONFIGURED FOR LEFT SIDE IMPACT

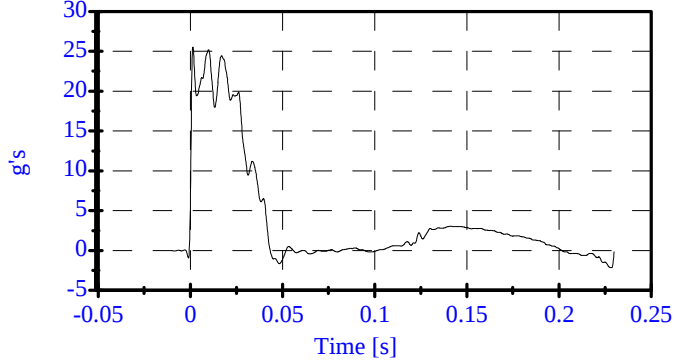
ATD Serial No: 270

Date: 03-09-04

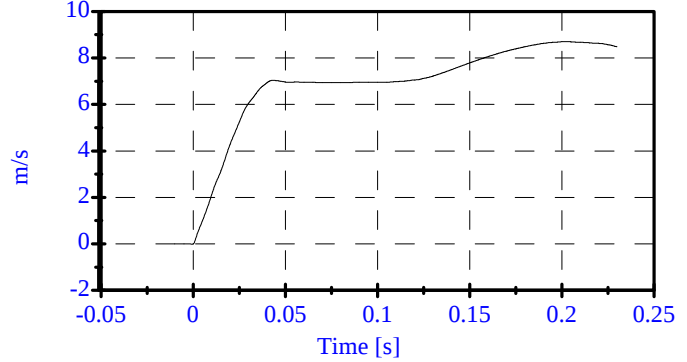
Sequential Test Number: 1 File: 270N 03-09-04

Laboratory Technician: B. Swiecicki

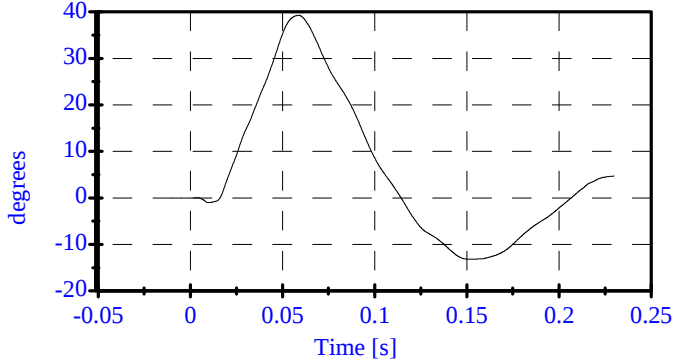
Pend Ax
CFC_180
Max: 25.5 [g's] at 0.001 [s]
Min: -2.1 [g's] at 0.228 [s]



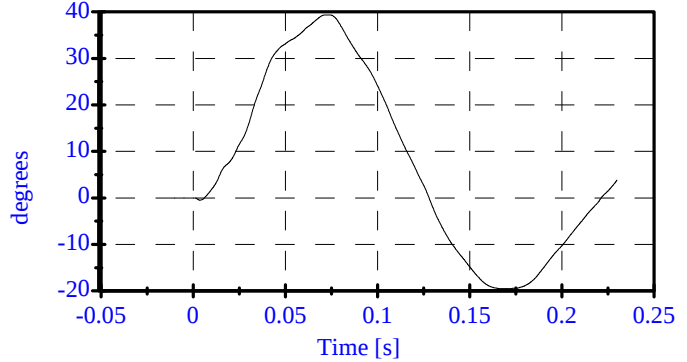
Pend Vx
CFC_180
Max: 8.7 [m/s] at 0.202 [s]
Min: -0.0 [m/s] at -0.001 [s]



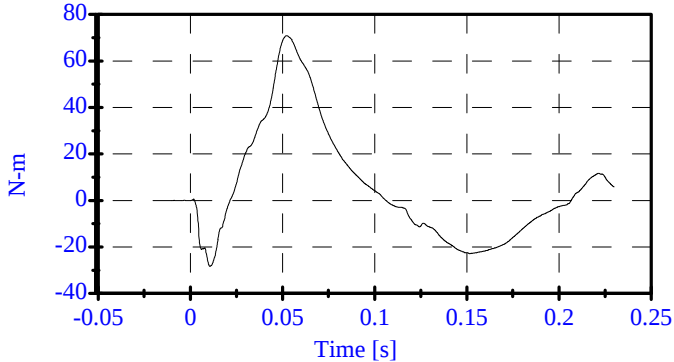
Head Rot
CFC_180
Max: 39.2 [degrees] at 0.059 [s]
Min: -13.2 [degrees] at 0.150 [s]



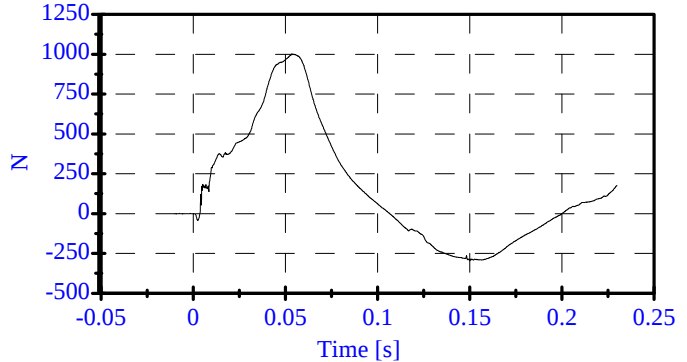
Arm Rot
CFC_180
Max: 39.3 [degrees] at 0.074 [s]
Min: -19.5 [degrees] at 0.167 [s]



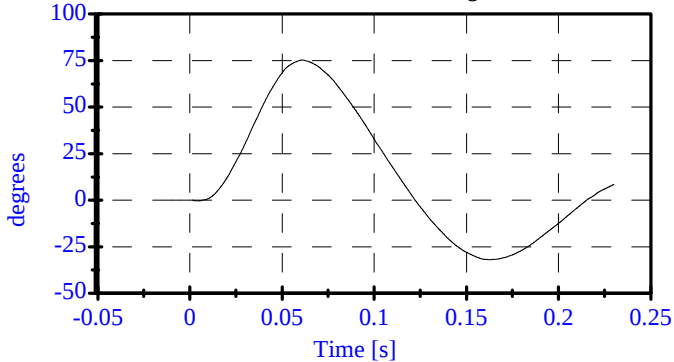
Neck Mx
CFC_600
Max: 70.9 [N-m] at 0.052 [s]
Min: -28.4 [N-m] at 0.011 [s]



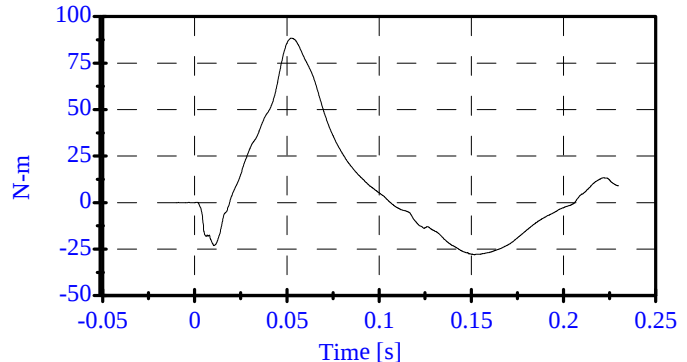
Neck Fy
CFC_1000
Max: 1003.0 [N] at 0.053 [s]
Min: -295.1 [N] at 0.150 [s]



Tot Rot
CFC_180
Max: 75.3 [degrees] at 0.061 [s]
Min: -31.9 [degrees] at 0.163 [s]



Mocy
Max: 88.5 [N-m] at 0.053 [s]
Min: -28.1 [N-m] at 0.152 [s]



**ABDOMINAL COMPRESSION TEST
PRE-TEST**

(Test not required for SID certification)

CONFIGURED FOR LEFT SIDE IMPACT

SID H3 Serial No.: 270

Date: March 10, 2004

Sequential Test Number:

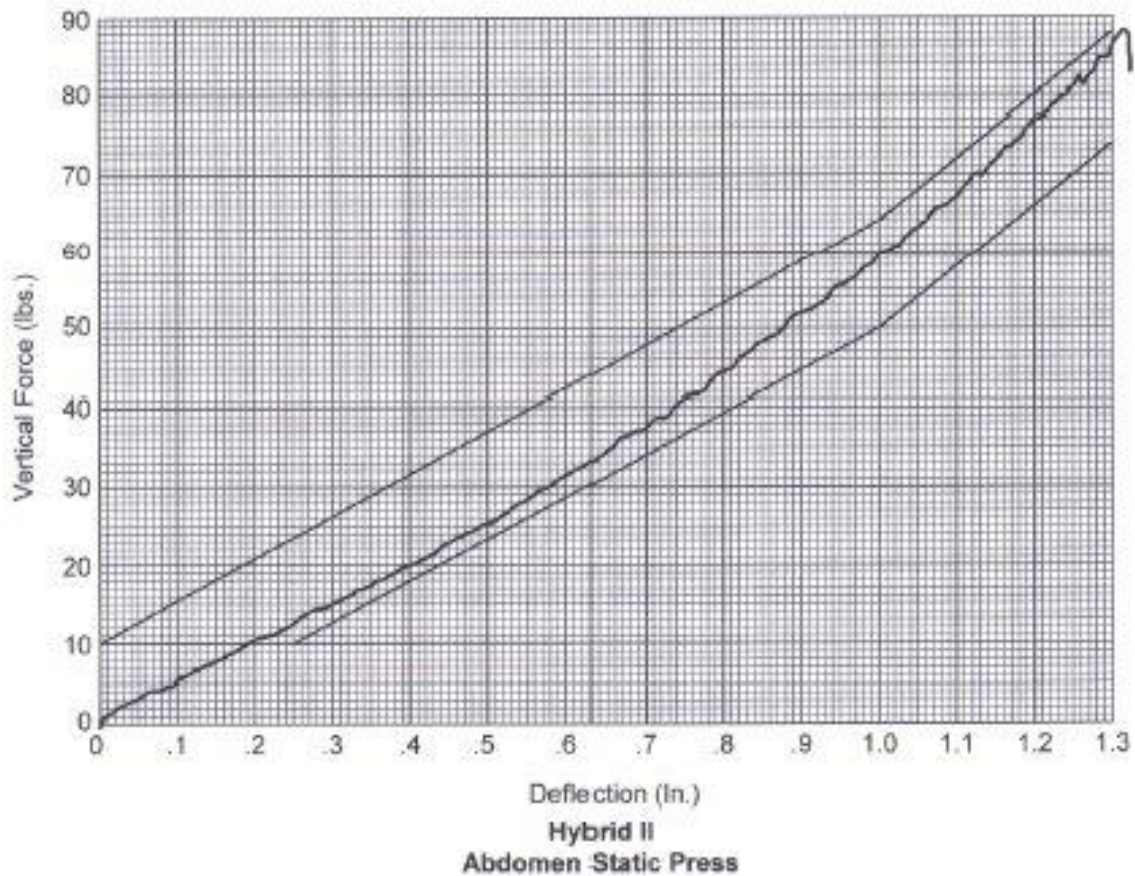
Laboratory Technician:

5

B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE (°C)	18.9 - 25.5	21.1
RELATIVE HUMIDITY (%)	10 - 70	31.0
FORCE @ 13 mm (N)	104 - 162	114.8
FORCE @ 19 mm (N)	163 - 221	183.3
FORCE @ 25 mm (N)	222 - 280	264.7
FORCE @ 33 mm (N)	325 - 391	385.7

REMARKS: None



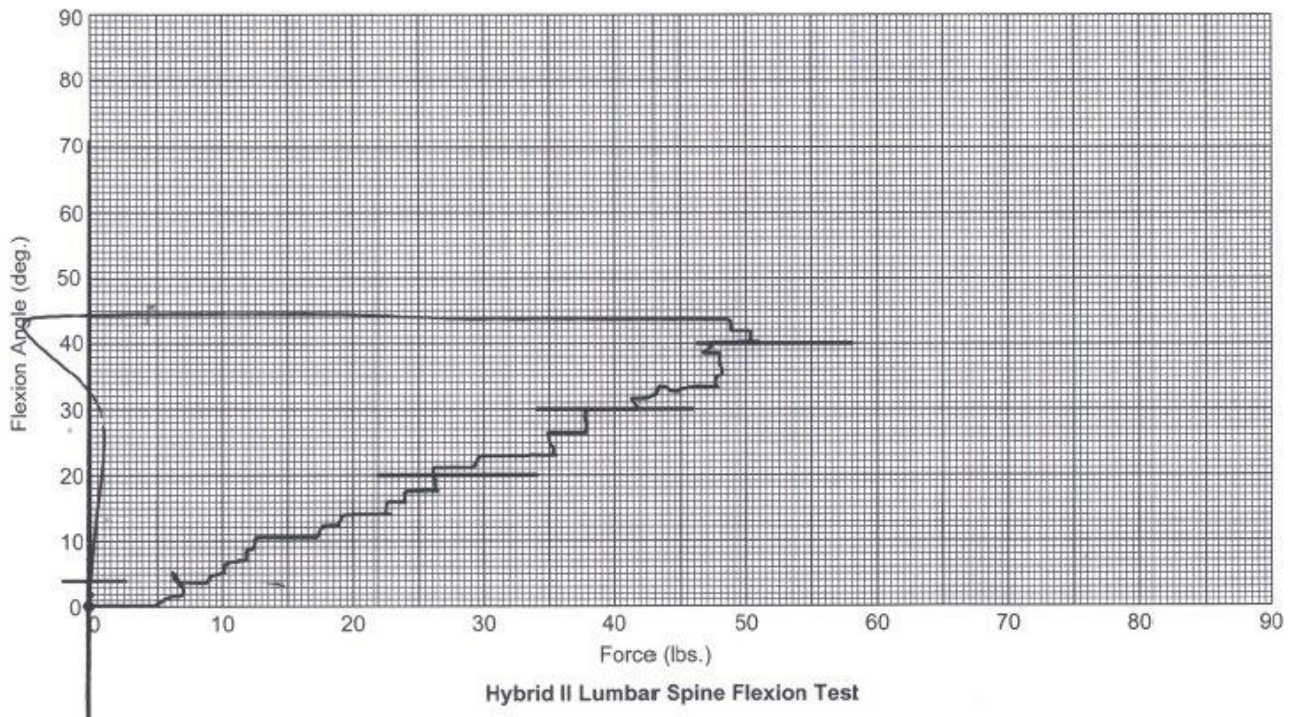
LUMBAR FLEXION TEST
PRE-TEST
(Test not required for SID certification)

CONFIGURED FOR LEFT SIDE IMPACT

SID H3 Serial No.: 270 Sequential Test Number: 5
Date: March 10, 2004 Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE (°C)	18.9 - 25.5	21.1
RELATIVE HUMIDITY (%)	10 - 70	31.0
FORCE @ 0° (N)	0 - 26.7	0.0
FORCE @ 20° (N)	97.8 - 151.2	115.7
FORCE @ 30° (N)	151.2 - 204.6	185.9
FORCE @ 40° (N)	204.6 - 258	224.2
RETURN ANGLE	12° max.	4°

REMARKS: None



PRE-TEST DUMMY INSPECTION LIST
CONFIGURED FOR LEFT SIDE IMPACT

SID H3 Serial No.: 270 Sequential Test Number: 5
Date: March 10, 2004 Laboratory Technician: B. Swiecicki

PART	ITEMS CHECKED	COMMENTS
SKIN	VISUAL INSPECTION	OK
HEAD	VISUAL, BALLAST, ACCELEROMETER MOUNT	OK
NECK	VISUAL, CABLE TORQUE	OK
SPINE BOX	VISUAL, BALLAST, WELDMENT, ACCELEROMETER MOUNT	OK
RIB CAGE	VISUAL, MEASURE, STIFFENERS	OK
STERNUM	VISUAL	OK
LUMBAR SPINE	VISUAL	OK
ABDOMEN	VISUAL	OK
PELVIS	VISUAL, PALPATE, ACCELEROMETER MOUNT	OK
UPPER LEGS	VISUAL	OK
KNEES	VISUAL, STOPS, INSERTS	OK
LOWER LEGS	VISUAL, RANGE OF MOTION	OK
ANKLES	VISUAL, RANGE OF MOTION	OK
FEET	VISUAL, RANGE OF MOTION	OK
JOINTS	1 TO 2 g RANGE	OK
OTHER	NONE	-

REMARKS: None

CALIBRATION TEST RESULTS

POST TEST

SID H3 NO.: 269

CONFIGURED FOR LEFT SIDE IMPACT

**CALIBRATION TEST RESULTS SUMMARY
POST TEST**

CONFIGURED FOR LEFT SIDE IMPACT

SID H3 Serial No.: 269 Sequential Test Number: 5
Date: March 10, 2004 Laboratory Technician: B. Swiecicki

TEST	COMMENTS
EXTERNAL DIMENSIONS	Passed all requirements.
LATERAL THORAX IMPACT TEST	Passed all requirements.
LATERAL PELVIS IMPACT TEST	Passed all requirements.
HEAD DROP TEST*	Passed all requirements.
LATERAL NECK BEND TEST*	Passed all requirements.
ABDOMINAL COMPRESSION TEST*	Passed all requirements.
LUMBAR FLEXION TEST*	Passed all requirements.

* Test not required for SID certification.

REMARKS: None

**EXTERNAL DIMENSIONS
POST TEST**

CONFIGURED FOR LEFT SIDE IMPACT

SID H3 Serial No.: 269 Sequential Test Number: 5
Date: March 10, 2004 Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS
SH- Seated Height (mm)	889 - 909	904
RH- Rib Height (mm)	502 - 520	505
HP- Hip Pivot Height (mm)	99 ref.	99
RD- Rib from Back Line (mm)	229 - 241	234
KH- Knee Pivot from Back Line (mm)	511 - 526	518
KV- Knee Pivot to Floor (mm)	490 - 505	495
HW- Hip Width (mm)	356 - 391	371

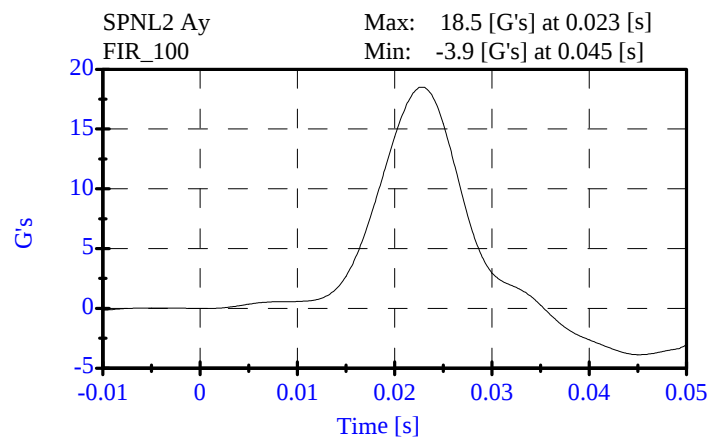
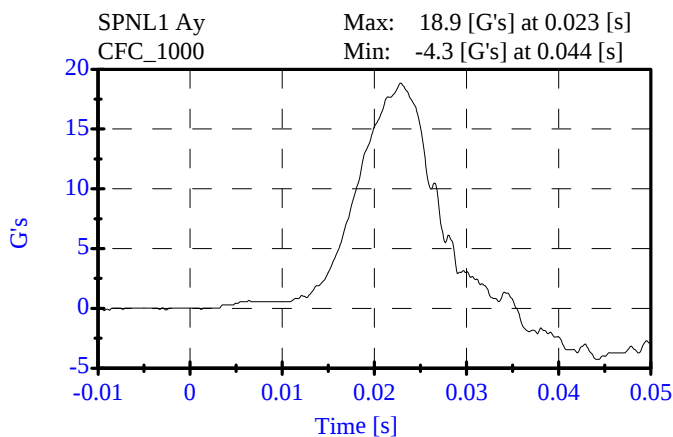
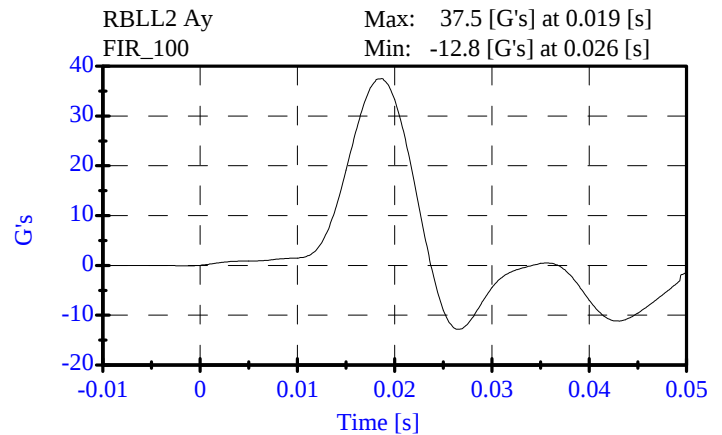
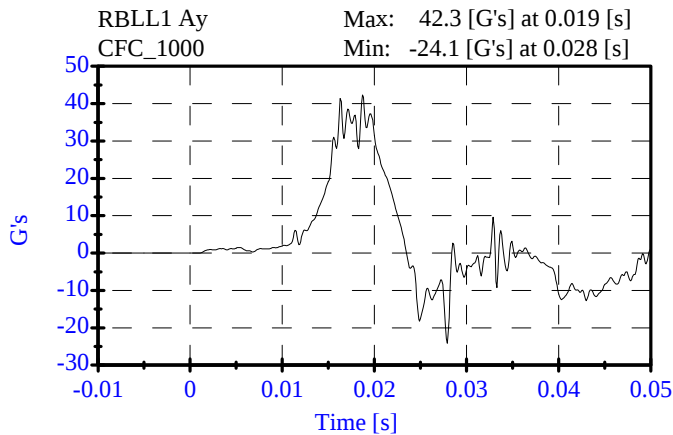
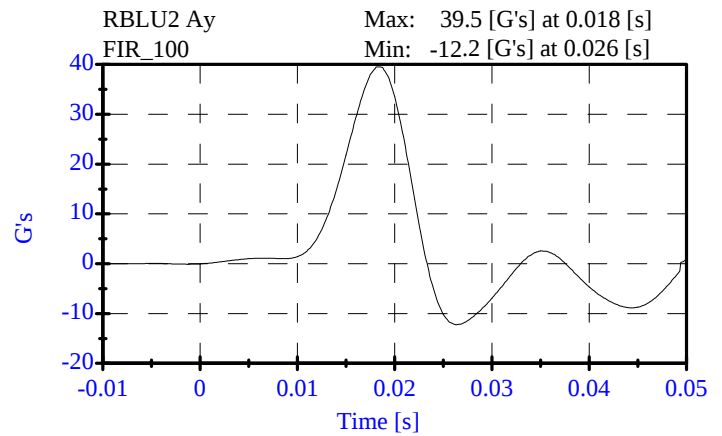
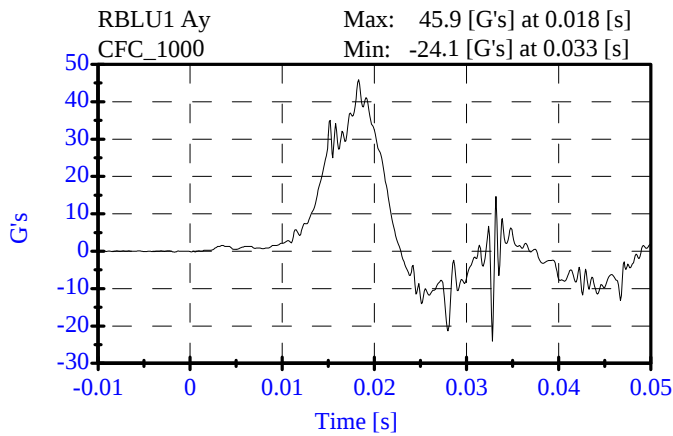
REMARKS: None

Thora Impact
Post-Test
CONFIGURED FOR LEFT SIDE IMPACT

ATD Serial No: 269
Date: 03-22-04

Sequential Test Number: 1 File: 269T 03-22-04
Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS	STATUS
Lab Temperature:	18.9-25.5 C	21.1 C	Passed
Lab Humidity:	10-70 %	30.00 %	Passed
Probe Velocity:	4.27- 4.33 m/s	4.32 m/s	Passed
Upper Rib Acceleration:	37.00-46.00 G's	39.52 G's	Passed
Lower Rib Acceleration:	37.00-46.00 G's	37.53 G's	Passed
Lower Spine Acceleration:	15.00-22.00 G's	18.50 G's	Passed



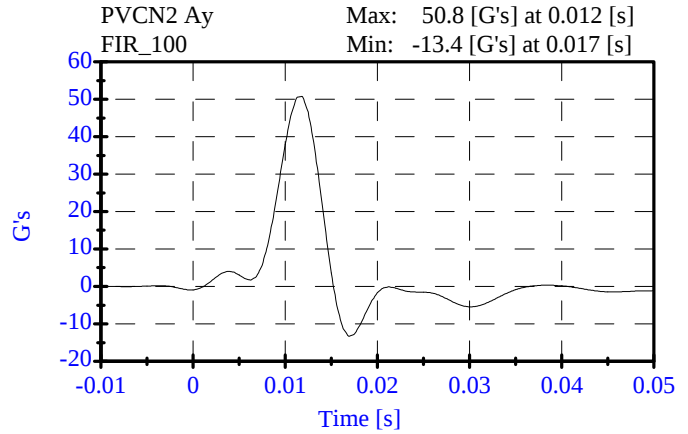
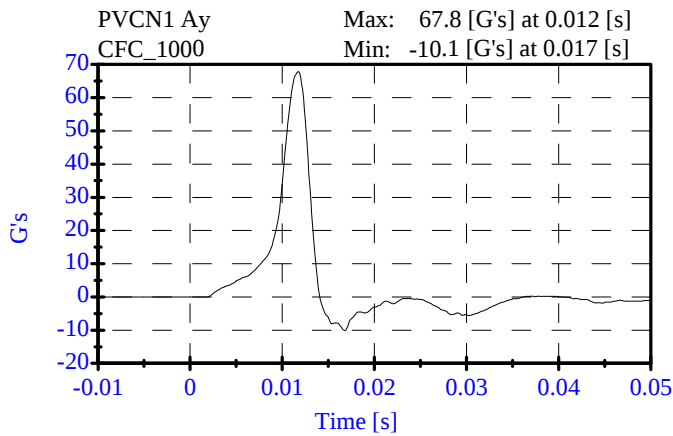
**Pelvic Impact
Post-Test**

CONFIGURED FOR LEFT SIDE IMPACT

ATD Serial No: 269
Date: 03-22-04

Sequential Test Number: 1 File: 269P 03-22-04
Laboratory Technician: B. Swiecicki

<u>TEST PARAMETER</u>	<u>SPECIFICATION</u>	<u>TEST RESULTS</u>	<u>STATUS</u>
Lab Temperature:	18.9-25.5 C	21.1 C	Passed
Lab Humidity:	10-70 %	28.00 %	Passed
Probe Velocity:	4.27- 4.33 m/s	4.32 m/s	Passed
Pelvis Y Acceleration:	40.00-60.00 G's	50.81 G's	Passed



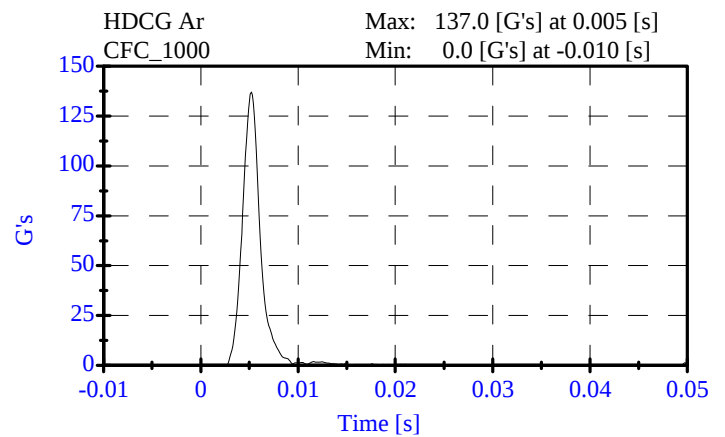
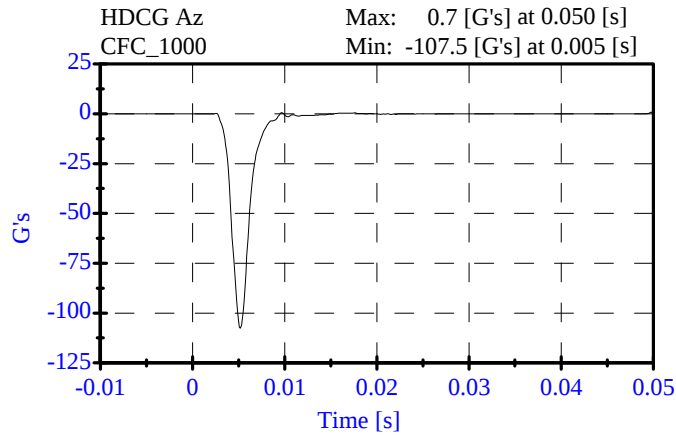
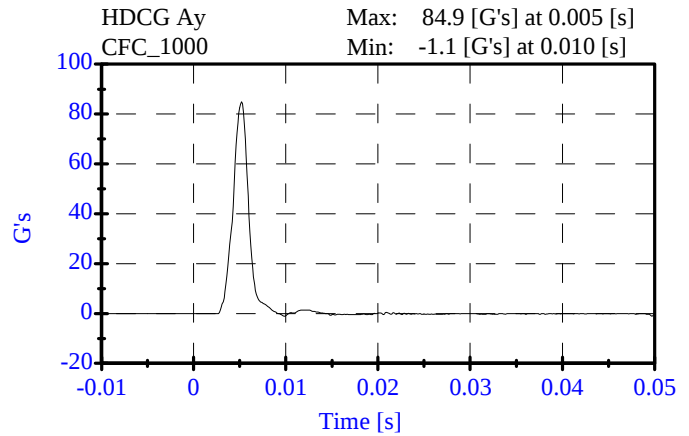
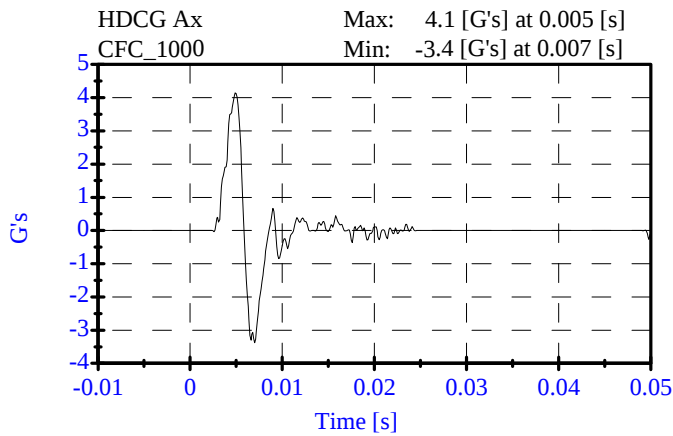
Head Drop Post-Test

CONFIGURED FOR LEFT SIDE IMPACT

ATD Serial No: 269
Date: 03-19-04

Sequential Test Number: 1 File: 269H1 03-19-04
Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS	STATUS
Lab Temperature:	20.6-22.2 C	21.1 C	Passed
Lab Humidity:	10-70 %	33.00 %	Passed
Peak Resultant Accel.:	120-150 Gs	137.03 Gs	Passed
Peak Lateral Accel.:	15 Gs Max	4.14 Gs	Passed
Curve PerCent NonModal:	< 15%	1.34 %	Passed



Neck Test
Post-Test

CONFIGURED FOR LEFT SIDE IMPACT

ATD Serial No: 269
Date: 03-19-04

Sequential Test Number: 1 File: 269N 03-19-04
Laboratory Technician: B. Swiecicki

<u>TEST PARAMETER</u>	<u>SPECIFICATION</u>	<u>TEST RESULTS</u>	<u>STATUS</u>
Lab Temperature:	20.6-22.2 C	21.1 C	Passed
Lab Humidity:	10-70 %	33.00 %	Passed
Impact Velocity:	6.89- 7.13 m/s	7.01 m/s	Passed
PENDULUM DELTA V			
Delta V at 10 ms:	1.96- 2.55 m/s	2.11 m/s	Passed
Delta V at 20 ms:	4.12- 5.10 m/s	4.19 m/s	Passed
Delta V at 30 ms:	5.73- 7.01 m/s	5.83 m/s	Passed
Delta V between 40-70 ms:	6.27- 7.64 m/s	7.02 m/s	Passed
D PLANE ROTATION			
Maximum Rotation:	64.0-78.0 Deg	71.09 Deg	Passed
Rotation Angle Decay:	50.0-70.0 ms	62.00 ms	Passed
MOMENT ABOUT THE OCCIPITAL CONDYLE			
Max Occipital Moment:	88.00-108.00 N-m	89.99 N-m	Passed
Occipital Moment Decay:	40.0-60.0 ms	50.50 ms	Passed
HEAD ROTATION TIME WITH RESPECT TO THE OCCIPITAL CONDYLE MOMENT			
Moment to Rotation Peak:	0.0-20.0 ms	4.10 ms	Passed

Neck Test
Post-Test
CONFIGURED FOR LEFT SIDE IMPACT

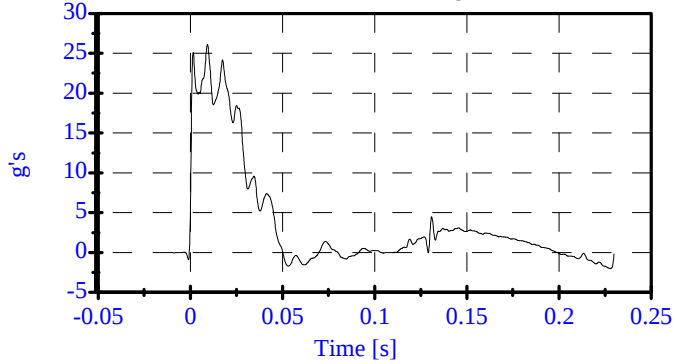
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Date: 03-19-04

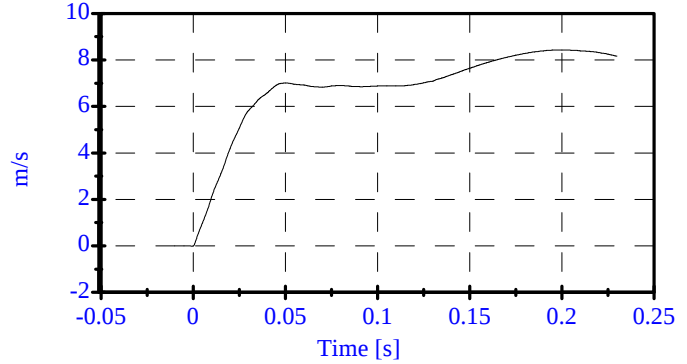
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Laboratory Technician: B. Swiecicki

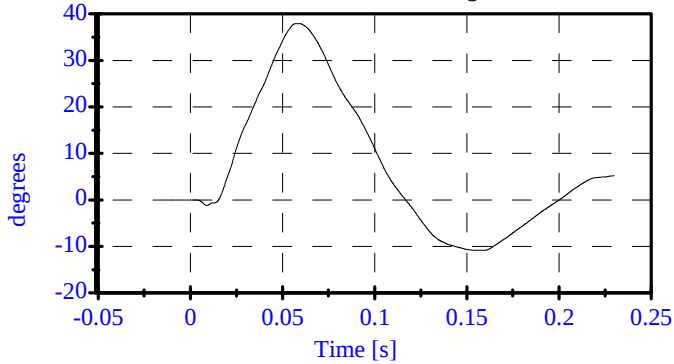
Pend Ax
CFC_180
Max: 26.1 [g's] at 0.009 [s]
Min: -2.0 [g's] at 0.228 [s]



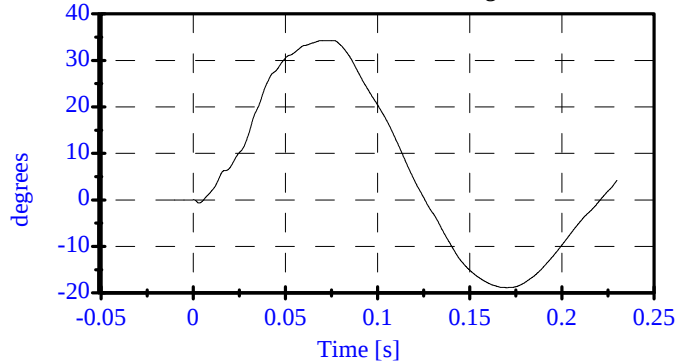
Pend Vx
CFC_180
Max: 8.4 [m/s] at 0.199 [s]
Min: -0.0 [m/s] at -0.001 [s]



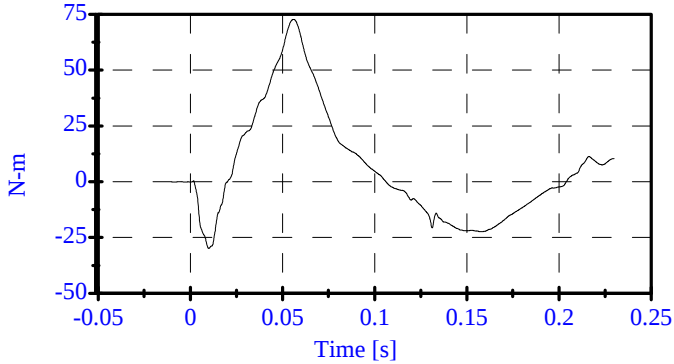
Head Rot
CFC_180
Max: 37.9 [degrees] at 0.058 [s]
Min: -10.8 [degrees] at 0.160 [s]



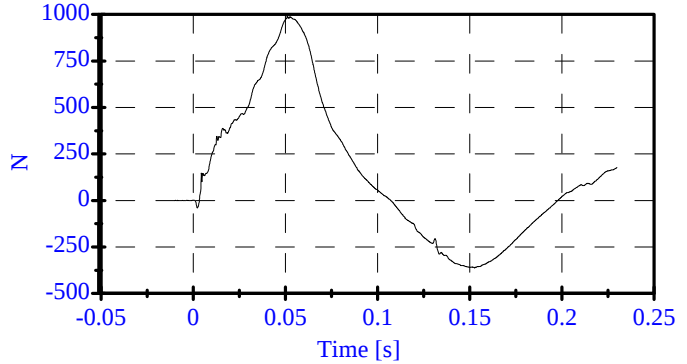
Arm Rot
CFC_180
Max: 34.3 [degrees] at 0.076 [s]
Min: -18.9 [degrees] at 0.170 [s]



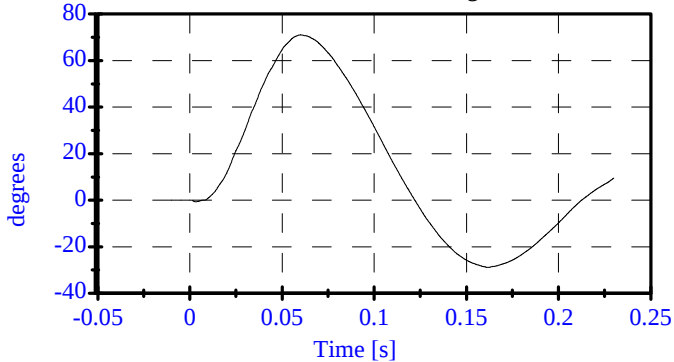
Neck Mx
CFC_600
Max: 72.8 [N-m] at 0.056 [s]
Min: -29.8 [N-m] at 0.010 [s]



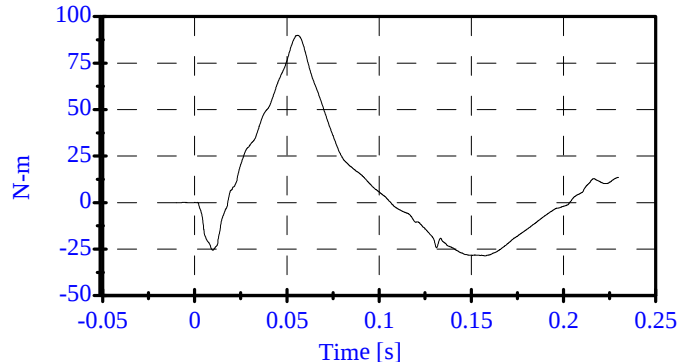
Neck Fy
CFC_1000
Max: 992.2 [N] at 0.051 [s]
Min: -363.9 [N] at 0.153 [s]



Tot Rot
CFC_180
Max: 71.1 [degrees] at 0.060 [s]
Min: -28.8 [degrees] at 0.162 [s]



Mocyc
Max: 90.0 [N-m] at 0.056 [s]
Min: -28.5 [N-m] at 0.157 [s]



**ABDOMINAL COMPRESSION TEST
POST TEST**

(Test not required for SID certification)

CONFIGURED FOR LEFT SIDE IMPACT

SID H3 Serial No.: 269

Date: March 10, 2004

Sequential Test Number:

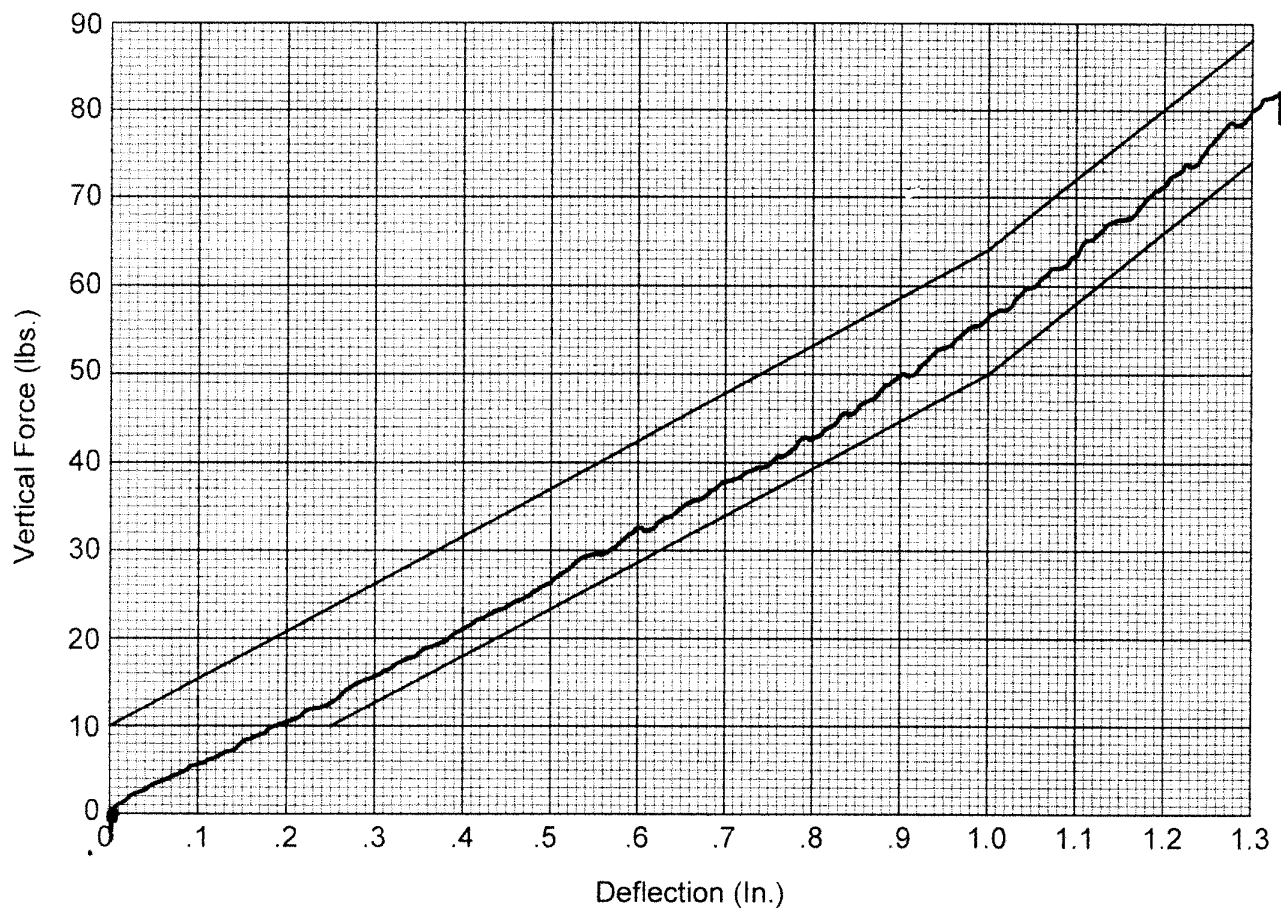
Laboratory Technician:

5

B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE (°C)	18.9 - 25.5	21.1
RELATIVE HUMIDITY (%)	10 - 70	28
FORCE @ 13 mm (N)	104 - 162	120.1
FORCE @ 19 mm (N)	163 - 221	177.9
FORCE @ 25 mm (N)	222 - 280	253.5
FORCE @ 33 mm (N)	325 - 391	351.4

REMARKS: None



**Hybrid II
Abdomen Static Press**

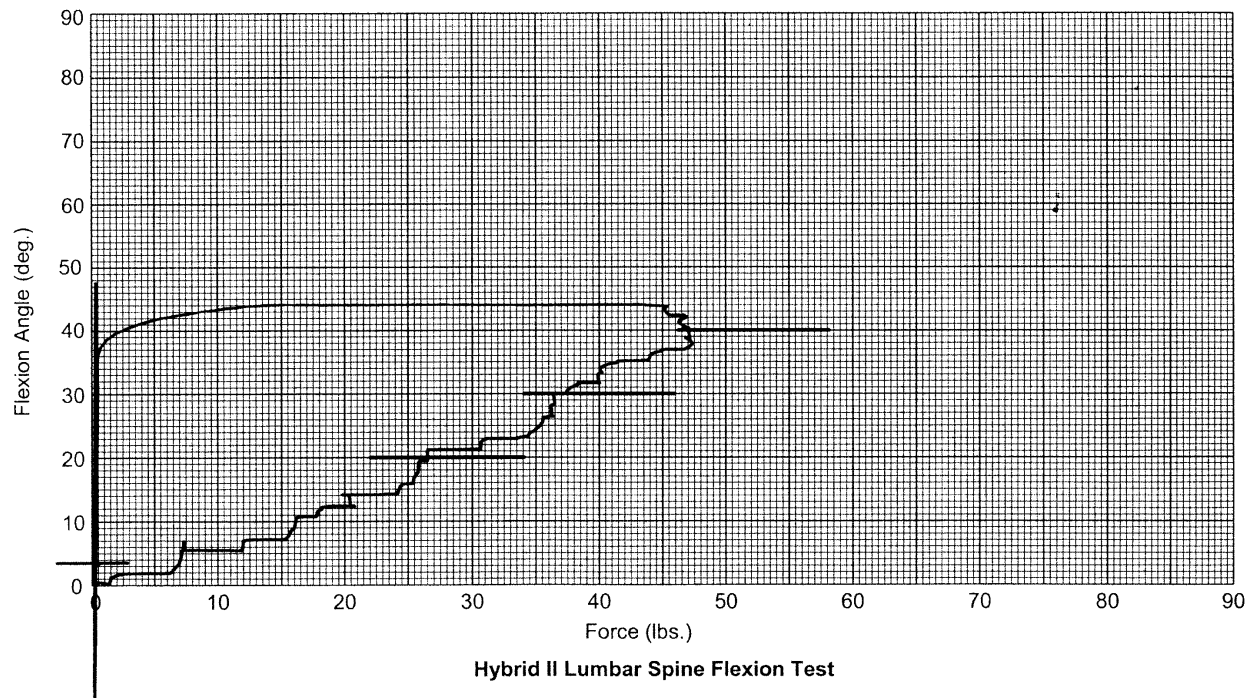
LUMBAR FLEXION TEST
POST TEST
(Test not required for SID certification)

CONFIGURED FOR LEFT SIDE IMPACT

SID H3 Serial No.:	269	Sequential Test Number:	5
Date:	March 10, 2004	Laboratory Technician:	B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE (°C)	18.9 - 25.5	21.1
RELATIVE HUMIDITY (%)	10 - 70	28
FORCE @ 0° (N)	0 - 26.7	0
FORCE @ 20° (N)	97.8 - 151.2	115.7
FORCE @ 30° (N)	151.2 - 204.6	164.6
FORCE @ 40° (N)	204.6 - 258	209.1
RETURN ANGLE	12° max.	4

REMARKS: None



POST TEST DUMMY INSPECTION LIST
CONFIGURED FOR LEFT SIDE IMPACT

SID H3 Serial No.: 269 Sequential Test Number: 5
Date: March 10, 2004 Laboratory Technician: B. Swiecicki

PART	ITEMS CHECKED	COMMENTS
SKIN	VISUAL INSPECTION	OK
HEAD	VISUAL, BALLAST, ACCELEROMETER MOUNT	OK
NECK	VISUAL, CABLE TORQUE	OK
SPINE BOX	VISUAL, BALLAST, WELDMENT, ACCELEROMETER MOUNT	OK
RIB CAGE	VISUAL, MEASURE, STIFFENERS	OK
STERNUM	VISUAL	OK
LUMBAR SPINE	VISUAL	OK
ABDOMEN	VISUAL	OK
PELVIS	VISUAL, PALPATE, ACCELEROMETER MOUNT	OK
UPPER LEGS	VISUAL	OK
KNEES	VISUAL, STOPS, INSERTS	OK
LOWER LEGS	VISUAL, RANGE OF MOTION	OK
ANKLES	VISUAL, RANGE OF MOTION	OK
FEET	VISUAL, RANGE OF MOTION	OK
JOINTS	1 TO 2 g RANGE	OK
OTHER	NONE	-

REMARKS: None

CALIBRATION TEST RESULTS

POST TEST

SID H3 NO.: 270

CONFIGURED FOR LEFT SIDE IMPACT

**CALIBRATION TEST RESULTS SUMMARY
POST TEST**

CONFIGURED FOR LEFT SIDE IMPACT

SID H3 Serial No.: 270 Sequential Test Number: 5
Date: March 10, 2004 Laboratory Technician: B. Swiecicki

TEST	COMMENTS
EXTERNAL DIMENSIONS	Passed all requirements.
LATERAL THORAX IMPACT TEST	Passed all requirements.
LATERAL PELVIS IMPACT TEST	Passed all requirements.
HEAD DROP TEST*	Passed all requirements.
LATERAL NECK BEND TEST*	Passed all requirements.
ABDOMINAL COMPRESSION TEST*	Passed all requirements.
LUMBAR FLEXION TEST*	Passed all requirements.

* Test not required for SID certification.

REMARKS: None

**EXTERNAL DIMENSIONS
POST TEST**

CONFIGURED FOR LEFT SIDE IMPACT

SID H3 Serial No.: 270 Sequential Test Number: 5
Date: March 10, 2004 Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS
SH- Seated Height (mm)	889 - 909	902
RH- Rib Height (mm)	502 - 520	506
HP- Hip Pivot Height (mm)	99 ref.	99
RD- Rib from Back Line (mm)	229 - 241	234
KH- Knee Pivot from Back Line (mm)	511 - 526	516
KV- Knee Pivot to Floor (mm)	490 - 505	495
HW- Hip Width (mm)	356 - 391	376

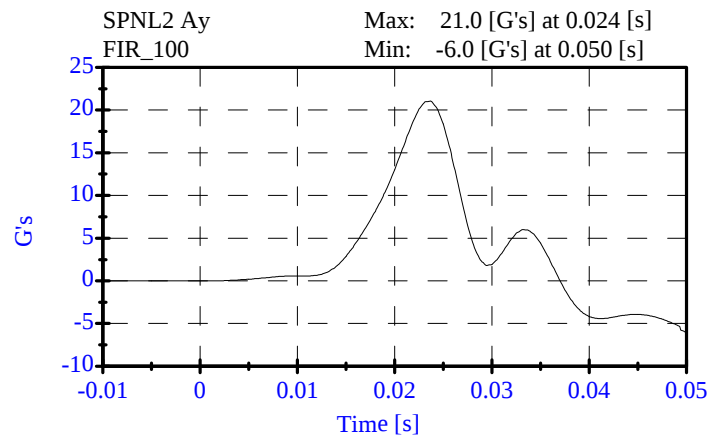
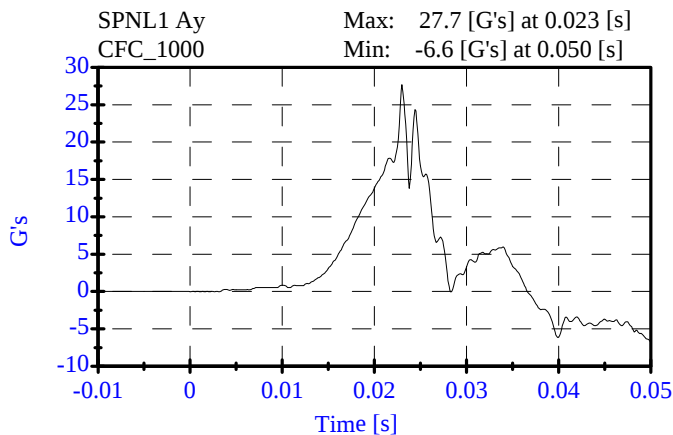
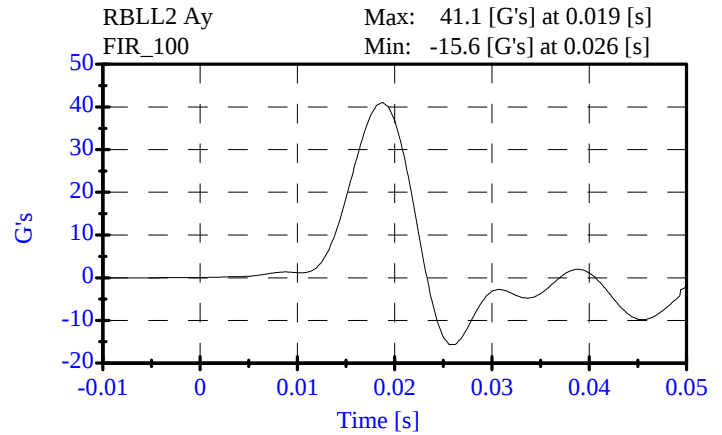
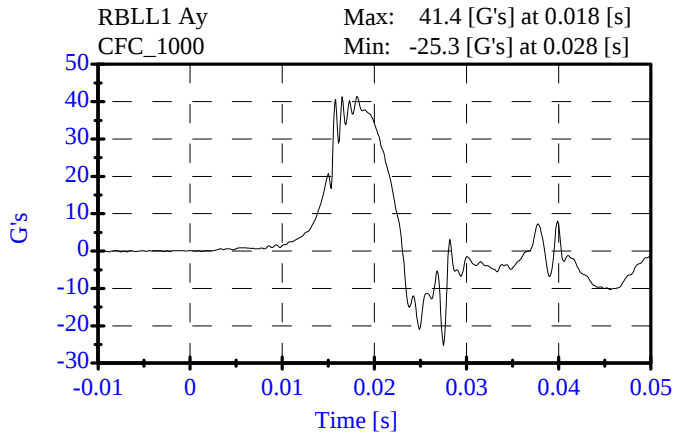
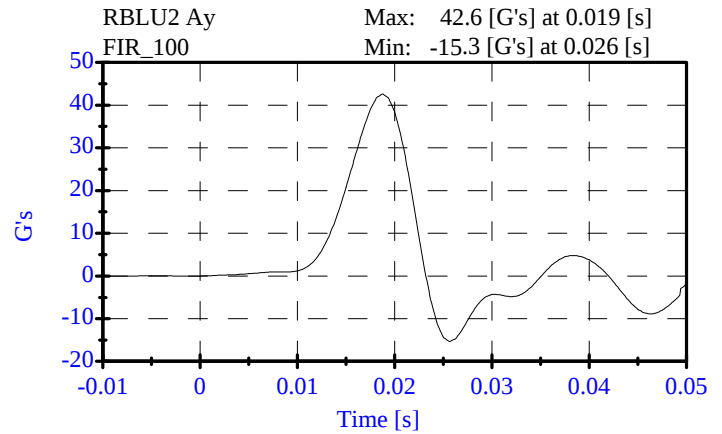
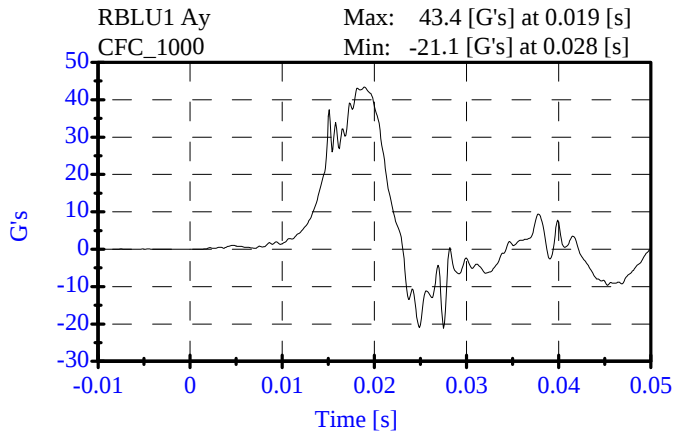
REMARKS: None

Thora Impact
Post-Test
CONFIGURED FOR LEFT SIDE IMPACT

ATD Serial No: 270
Date: 03-22-04

Sequential Test Number: 1 File: 270T 03-22-04
Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS	STATUS
Lab Temperature:	18.9-25.5 C	21.1 C	Passed
Lab Humidity:	10-70 %	28.00 %	Passed
Probe Velocity:	4.27- 4.33 m/s	4.33 m/s	Passed
Upper Rib Acceleration:	37.00-46.00 G's	42.58 G's	Passed
Lower Rib Acceleration:	37.00-46.00 G's	41.06 G's	Passed
Lower Spine Acceleration:	15.00-22.00 G's	21.04 G's	Passed



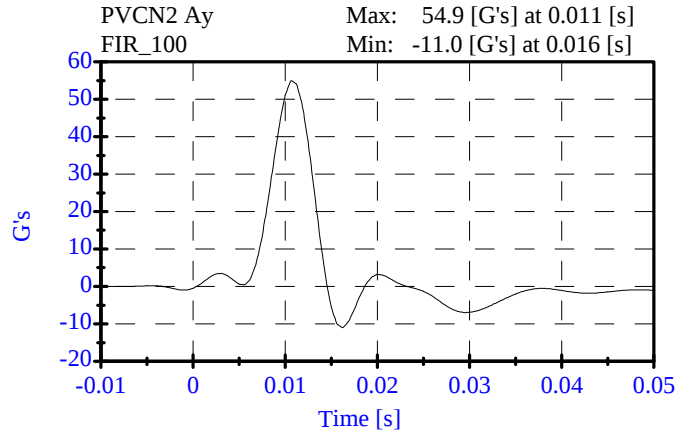
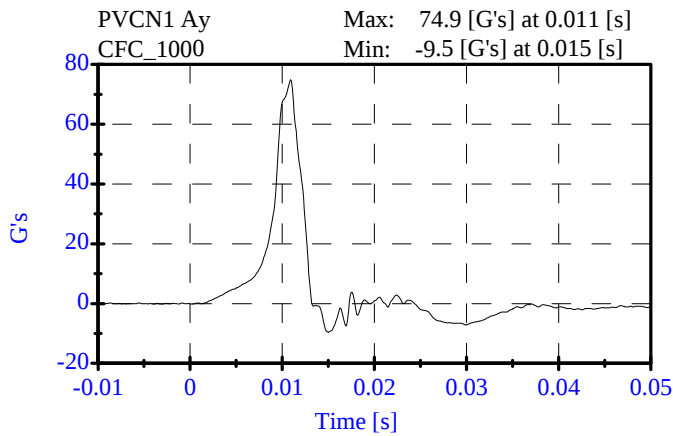
Pelvic Impact Post-Test

CONFIGURED FOR LEFT SIDE IMPACT

ATD Serial No: 270
Date: 03-22-04

Sequential Test Number: 1 File: 270P 03-22-04
Laboratory Technician: B. Swiecicki

<u>TEST PARAMETER</u>	<u>SPECIFICATION</u>	<u>TEST RESULTS</u>	<u>STATUS</u>
Lab Temperature:	18.9-25.5 C	21.1 C	Passed
Lab Humidity:	10-70 %	28.00 %	Passed
Probe Velocity:	4.27- 4.33 m/s	4.33 m/s	Passed
Pelvis Y Acceleration:	40.00-60.00 G's	54.95 G's	Passed



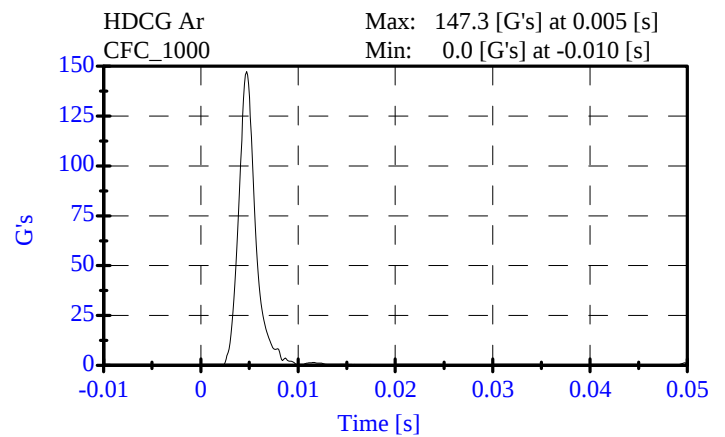
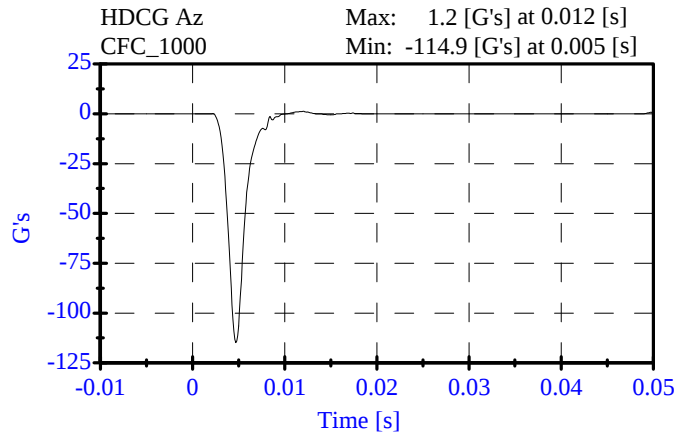
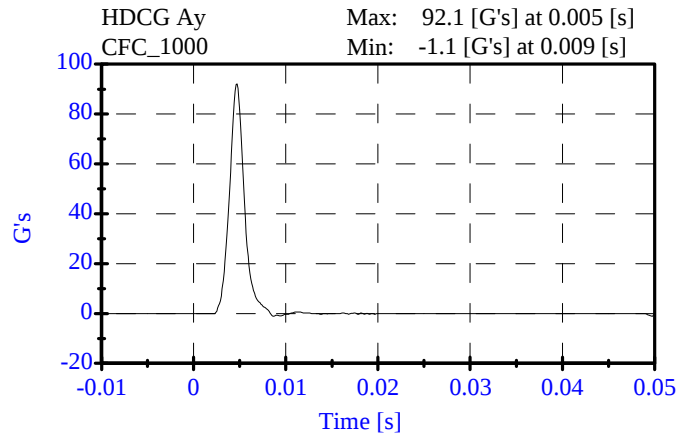
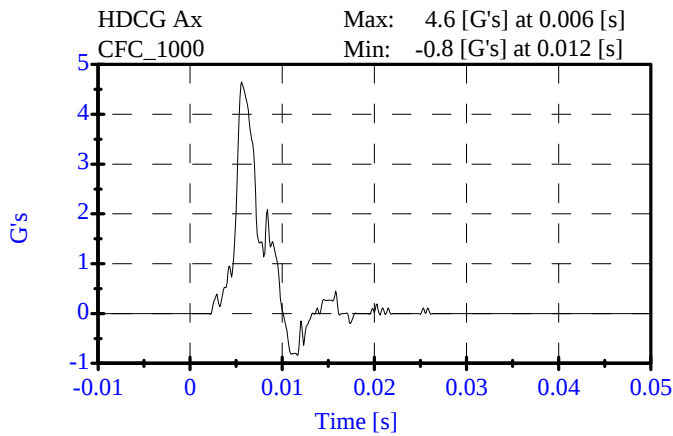
Head Drop Post-Test

CONFIGURED FOR LEFT SIDE IMPACT

ATD Serial No: 270
Date: 03-19-04

Sequential Test Number: 1 File: 270H 03-19-04
Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS	STATUS
Lab Temperature:	20.6-22.2 C	21.1 C	Passed
Lab Humidity:	10-70 %	33.00 %	Passed
Peak Resultant Accel.:	120-150 Gs	147.28 Gs	Passed
Peak Lateral Accel.:	15 Gs Max	4.65 Gs	Passed
Curve PerCent NonModal:	< 15%	5.65 %	Passed



Neck Test
Post-Test

CONFIGURED FOR LEFT SIDE IMPACT

ATD Serial No: 270
Date: 03-22-04

Sequential Test Number: 1 File: 270N 03-22-04
Laboratory Technician: B. Swiecicki

<u>TEST PARAMETER</u>	<u>SPECIFICATION</u>	<u>TEST RESULTS</u>	<u>STATUS</u>
Lab Temperature:	20.6-22.2 C	21.1 C	Passed
Lab Humidity:	10-70 %	30.00 %	Passed
Impact Velocity:	6.89- 7.13 m/s	6.91 m/s	Passed
PENDULUM DELTA V			
Delta V at 10 ms:	1.96- 2.55 m/s	2.04 m/s	Passed
Delta V at 20 ms:	4.12- 5.10 m/s	4.14 m/s	Passed
Delta V at 30 ms:	5.73- 7.01 m/s	5.83 m/s	Passed
Delta V between 40-70 ms:	6.27- 7.64 m/s	7.02 m/s	Passed
D PLANE ROTATION			
Maximum Rotation:	64.0-78.0 Deg	69.47 Deg	Passed
Rotation Angle Decay:	50.0-70.0 ms	59.70 ms	Passed
MOMENT ABOUT THE OCCIPITAL CONDYLE			
Max Occipital Moment:	88.00-108.00 N-m	90.97 N-m	Passed
Occipital Moment Decay:	40.0-60.0 ms	53.70 ms	Passed
HEAD ROTATION TIME WITH RESPECT TO THE OCCIPITAL CONDYLE MOMENT			
Moment to Rotation Peak:	0.0-20.0 ms	9.70 ms	Passed

Neck Test
Post-Test

CONFIGURED FOR LEFT SIDE IMPACT

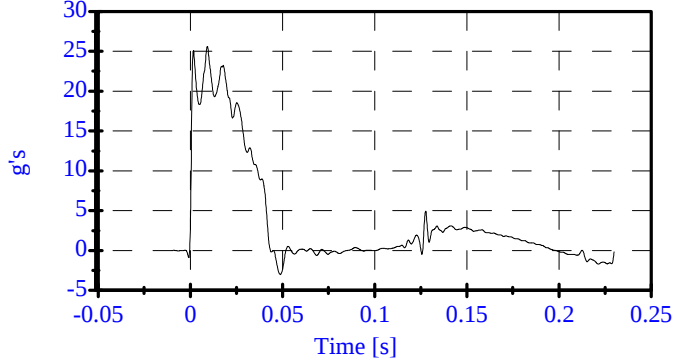
ATD Serial No: 270

Date: 03-22-04

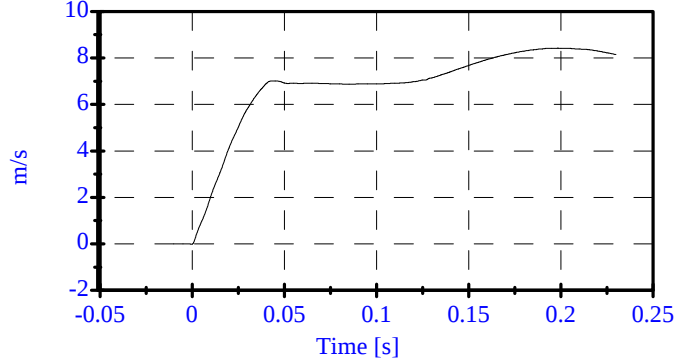
Sequential Test Number: 1 File: 270N 03-22-04

Laboratory Technician: B. Swiecicki

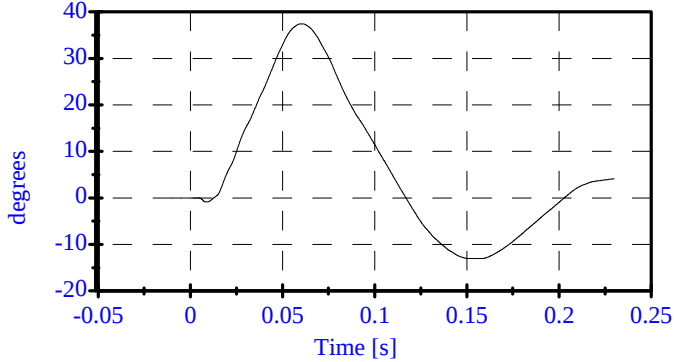
Pend Ax
CFC_180
Max: 25.6 [g's] at 0.009 [s]
Min: -3.0 [g's] at 0.049 [s]



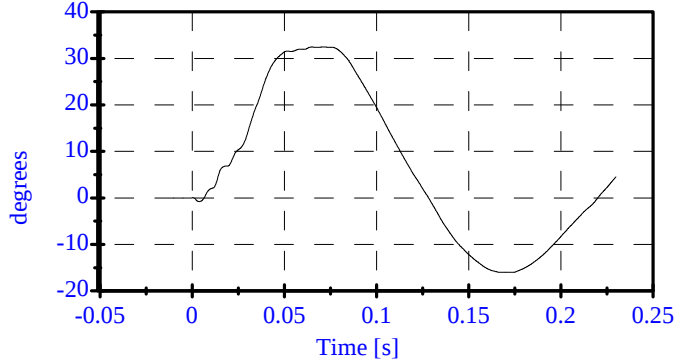
Pend Vx
CFC_180
Max: 8.4 [m/s] at 0.198 [s]
Min: -0.0 [m/s] at -0.000 [s]



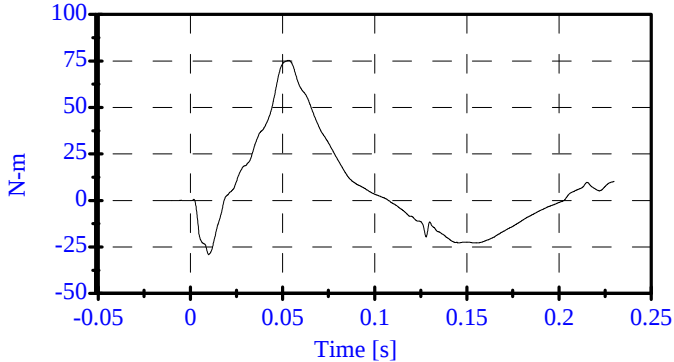
Head Rot
CFC_180
Max: 37.4 [degrees] at 0.060 [s]
Min: -13.1 [degrees] at 0.153 [s]



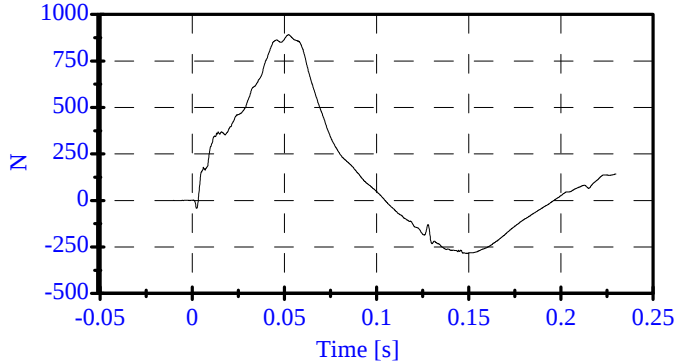
Arm Rot
CFC_180
Max: 32.5 [degrees] at 0.065 [s]
Min: -16.0 [degrees] at 0.169 [s]



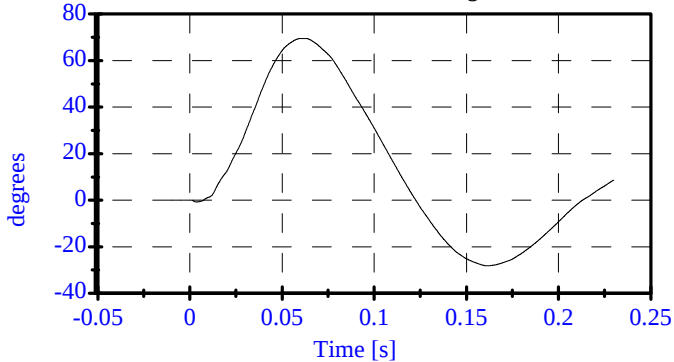
Neck Mx
CFC_600
Max: 75.3 [N-m] at 0.053 [s]
Min: -29.1 [N-m] at 0.010 [s]



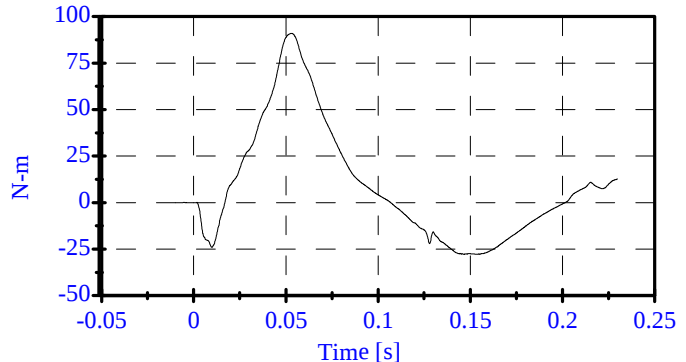
Neck Fy
CFC_1000
Max: 890.7 [N] at 0.052 [s]
Min: -285.0 [N] at 0.149 [s]



Tot Rot
CFC_180
Max: 69.5 [degrees] at 0.063 [s]
Min: -28.2 [degrees] at 0.162 [s]



Mocy
Max: 91.0 [N-m] at 0.053 [s]
Min: -27.7 [N-m] at 0.146 [s]



**ABDOMINAL COMPRESSION TEST
POST TEST**

(Test not required for SID certification)

CONFIGURED FOR LEFT SIDE IMPACT

SID H3 Serial No.: 270

Date: March 10, 2004

Sequential Test Number:

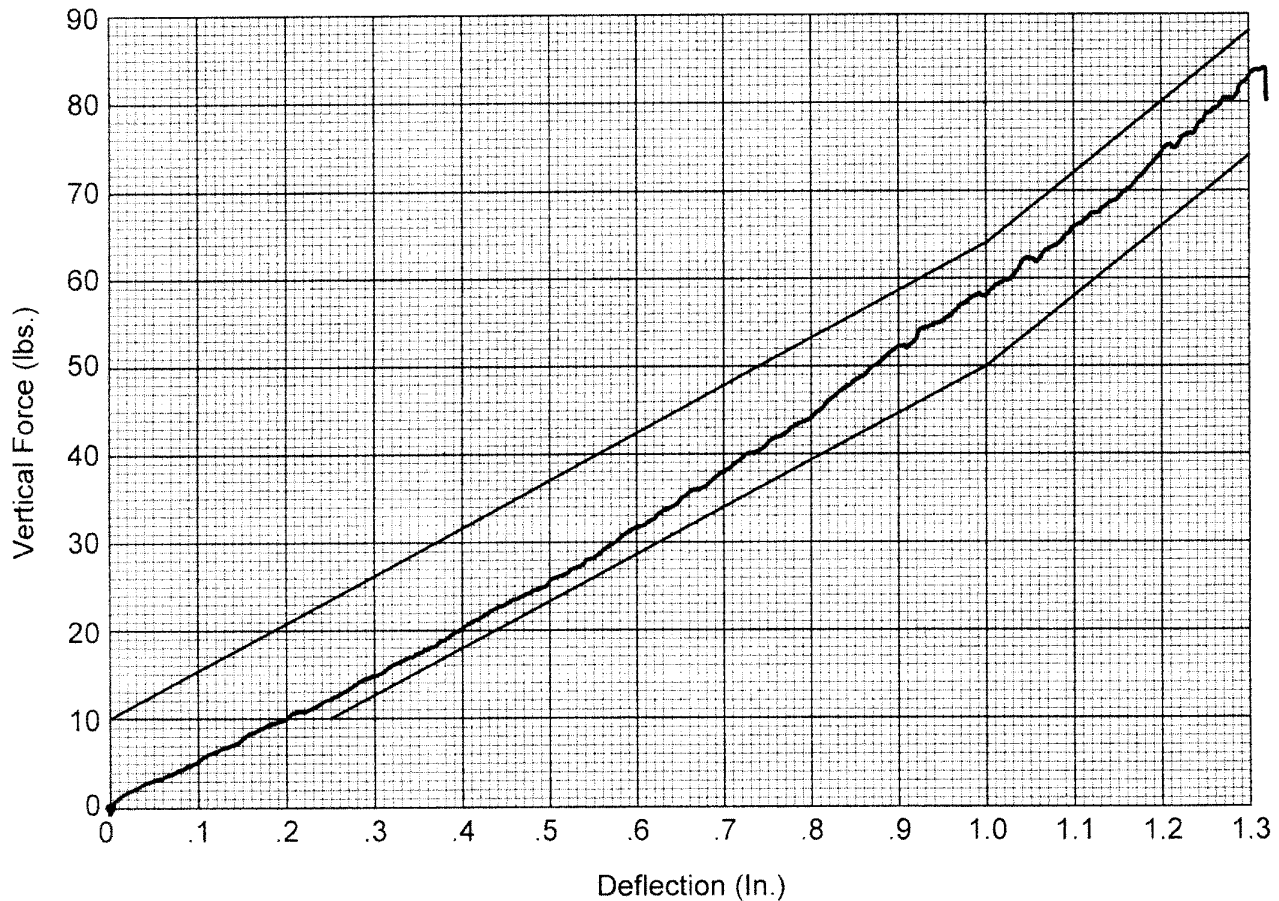
Laboratory Technician:

5

B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE (°C)	18.9 - 25.5	21.1
RELATIVE HUMIDITY (%)	10 - 70	28
FORCE @ 13 mm (N)	104 - 162	115.7
FORCE @ 19 mm (N)	163 - 221	182.4
FORCE @ 25 mm (N)	222 - 280	258.0
FORCE @ 33 mm (N)	325 - 391	369.2

REMARKS: None



**Hybrid II
Abdomen Static Press**

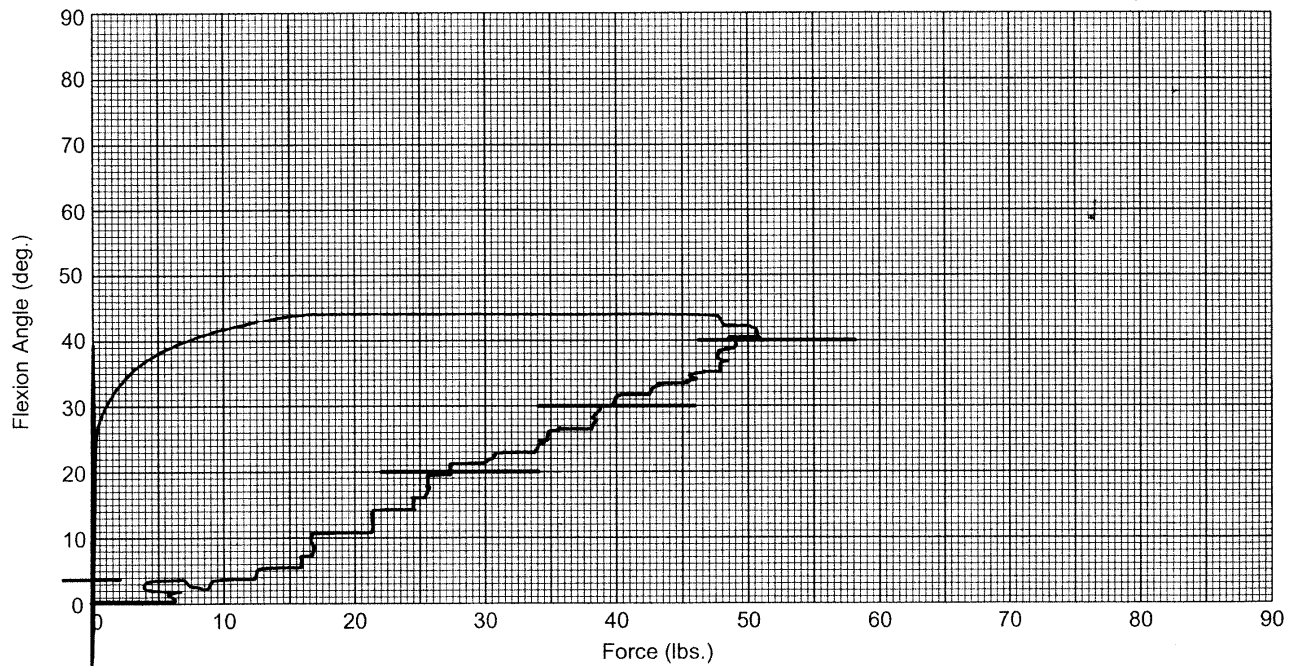
LUMBAR FLEXION TEST
POST TEST
(Test not required for SID certification)

CONFIGURED FOR LEFT SIDE IMPACT

SID H3 Serial No.: 270 Sequential Test Number: 5
Date: March 10, 2004 Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE (°C)	18.9 - 25.5	21.1
RELATIVE HUMIDITY (%)	10 - 70	28
FORCE @ 0° (N)	0 - 26.7	0
FORCE @ 20° (N)	97.8 - 151.2	120.1
FORCE @ 30° (N)	151.2 - 204.6	169.0
FORCE @ 40° (N)	204.6 - 258	213.5
RETURN ANGLE	12° max.	4

REMARKS: None



Hybrid II Lumbar Spine Flexion Test

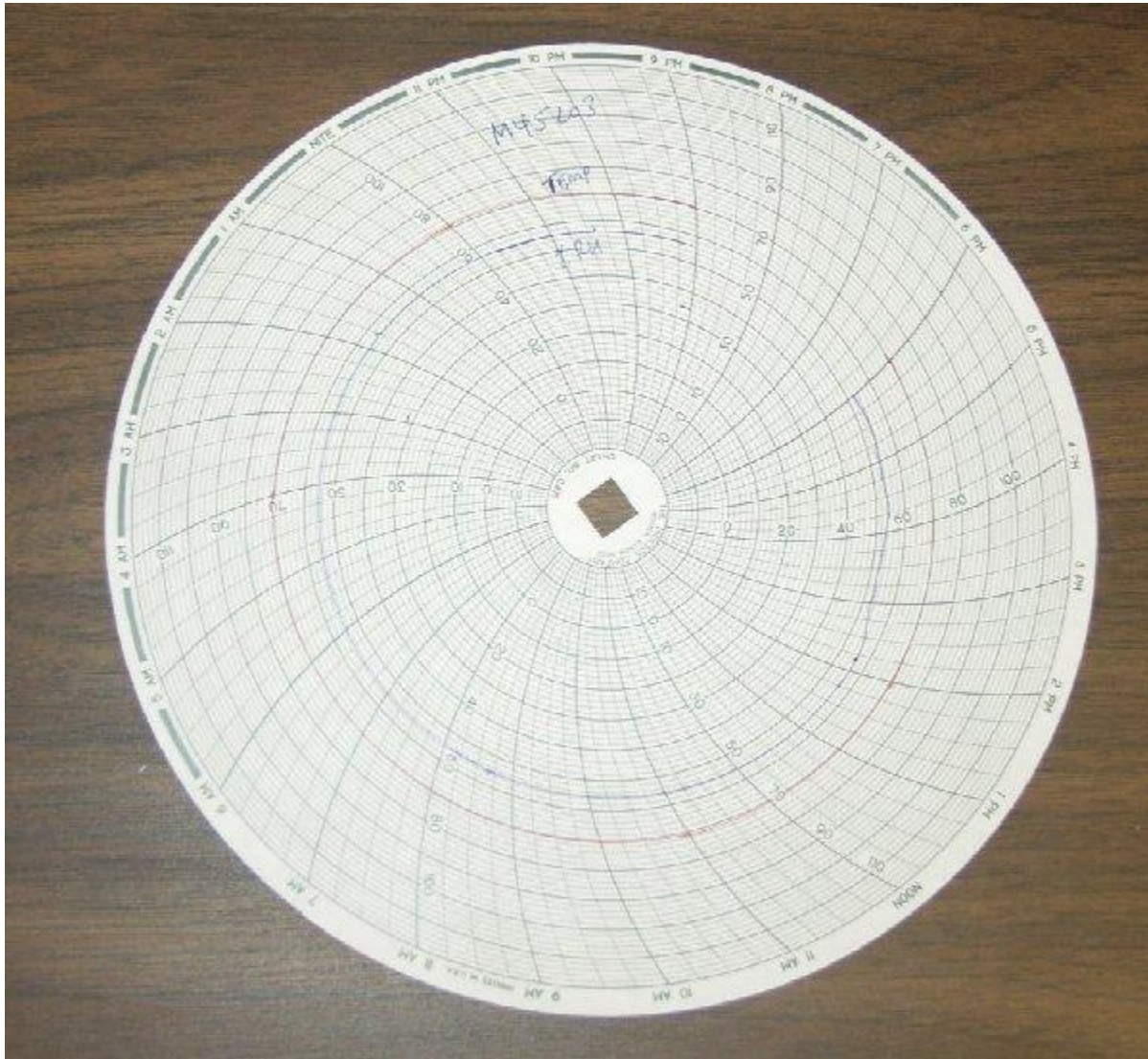
POST TEST DUMMY INSPECTION LIST
CONFIGURED FOR LEFT SIDE IMPACT

SID H3 Serial No.: 270 Sequential Test Number: 5
Date: March 10, 2004 Laboratory Technician: B. Swiecicki

PART	ITEMS CHECKED	COMMENTS
SKIN	VISUAL INSPECTION	OK
HEAD	VISUAL, BALLAST, ACCELEROMETER MOUNT	OK
NECK	VISUAL, CABLE TORQUE	OK
SPINE BOX	VISUAL, BALLAST, WELDMENT, ACCELEROMETER MOUNT	OK
RIB CAGE	VISUAL, MEASURE, STIFFENERS	OK
STERNUM	VISUAL	OK
LUMBAR SPINE	VISUAL	OK
ABDOMEN	VISUAL	OK
PELVIS	VISUAL, PALPATE, ACCELEROMETER MOUNT	OK
UPPER LEGS	VISUAL	OK
KNEES	VISUAL, STOPS, INSERTS	OK
LOWER LEGS	VISUAL, RANGE OF MOTION	OK
ANKLES	VISUAL, RANGE OF MOTION	OK
FEET	VISUAL, RANGE OF MOTION	OK
JOINTS	1 TO 2 g RANGE	OK
OTHER	NONE	-

REMARKS: None

TEMPERATURE TRACE



APPENDIX D

TEST EQUIPMENT LIST AND CALIBRATION INFORMATION

TEST EQUIPMENT LIST AND CALIBRATION INFORMATION

SID INSTRUMENTATION

	FRONT SID NO.: 269		
	SERIAL NUMBER	MANUFACTURER	CALIBRATION DATE
HEAD AX	AC-P23161	ENDEVCO	11-Sep-03
HEAD AY	AC-P24011	ENDEVCO	18-Sep-03
HEAD AZ	AC-P19111	ENDEVCO	11-Sep-03
UPPER NECK FX	LC-440Fx	DENTON	18-Jun-03
UPPER NECK FY	LC-440Fy	DENTON	18-Jun-03
UPPER NECK FZ	LC-440Fz	DENTON	18-Jun-03
UPPER NECK MX	LC-440Mx	DENTON	18-Jun-03
UPPER NECK MY	LC-440My	DENTON	18-Jun-03
UPPER NECK MZ	LC-440Mz	DENTON	18-Jun-03
UPPER RIB	AC-P16862	ENDEVCO	16-Sep-03
LOWER RIB	AC-P16656	ENDEVCO	16-Sep-03
LOWER SPINE	AC-P16866	ENDEVCO	16-Sep-03
PELVIS	AC-P16676	ENDEVCO	16-Sep-03
UPPER RIB REDUNDANT	AC-P23156	ENDEVCO	16-Sep-03
LOWER RIB REDUNDANT	AC-P16645	ENDEVCO	16-Sep-03
LOWER SPINE REDUNDANT	AC-P19343	ENDEVCO	16-Sep-03
PELVIS REDUNDANT	AC-P16843	ENDEVCO	16-Sep-03

	REAR SID NO.: 270		
	SERIAL NUMBER	MANUFACTURER	CALIBRATION DATE
HEAD AX	AC-P23139	ENDEVCO	10-Sep-03
HEAD AY	AC-P13323	ENDEVCO	10-Sep-03
HEAD AZ	AC-P22943	ENDEVCO	10-Sep-03
UPPER NECK FX	LC-205Fx	DENTON	18-Jun-03
UPPER NECK FY	LC-205Fy	DENTON	18-Jun-03
UPPER NECK FZ	LC-205Fz	DENTON	18-Jun-03
UPPER NECK MX	LC-205Mx	DENTON	18-Jun-03
UPPER NECK MY	LC-205My	DENTON	18-Jun-03
UPPER NECK MZ	LC-205Mz	DENTON	18-Jun-03
UPPER RIB	AC-P18524	ENDEVCO	17-Sep-03
LOWER RIB	AC-P18533	ENDEVCO	17-Sep-03
LOWER SPINE	AC-P18514	ENDEVCO	17-Sep-03
PELVIS	AC-P18519	ENDEVCO	17-Sep-03
UPPER RIB REDUNDANT	AC-P18528	ENDEVCO	17-Sep-03
LOWER RIB REDUNDANT	AC-P18518	ENDEVCO	17-Sep-03
LOWER SPINE REDUNDANT	AC-P18688	ENDEVCO	17-Sep-03
PELVIS REDUNDANT	AC-P18531	ENDEVCO	17-Sep-03

REMARKS: None

TEST EQUIPMENT LIST AND CALIBRATION INFORMATION

VEHICLE AND MDB INSTRUMENTATION

	VEHICLE AND MDB INSTRUMENTS		
	SERIAL NUMBER	MANUFACTURER	CALIBRATION DATE
RIGHT FRONT SILL (X)	AC-P18525	ENDEVCO	18-Sep-03
RIGHT FRONT SILL (Y)	AC-P14438	ENDEVCO	24-Sep-03
RIGHT FRONT SILL (Z)	AC-P15747	ENDEVCO	24-Sep-03
RIGHT REAR SILL (X)	AC-J33198	ENDEVCO	24-Sep-03
RIGHT REAR SILL (Y)	AC-J33843	ENDEVCO	25-Sep-03
RIGHT REAR SILL (Z)	AC-BB14	ENDEVCO	25-Sep-03
REAR FLOORPAN ABOVE AXLE (X)	AC-P23873	ENDEVCO	16-Jan-04
REAR FLOORPAN ABOVE AXLE (Y)	AC-P19246	ENDEVCO	16-Jan-04
REAR FLOORPAN ABOVE AXLE (Z)	AC-P32221	ENDEVCO	17-Feb-04
LEFT REAR SILL (Y)	AC-B10827	ENDEVCO	25-Sep-03
LEFT FRONT SILL (Y)	AC-8062-003	ICS	11-Dec-03
LEFT FRONT DOOR CENTERLINE (Y)	AC-9440-006	GS SENSORS	16-Dec-03
RIGHT REAR SEAT OCCUPANT COMP. (Y)	AC-AN25	ENDEVCO	24-Feb-04
MID REAR OF LEFT FRONT DOOR (Y)	AC-9440-034	GS SENSORS	3-Dec-03
LEFT FRONT DOOR UPPER C/L (Y)	AC-9440-032	GS SENSORS	19-Jan-04
MID REAR OF LEFT REAR DOOR (Y)	AC-9440-039	GS SENSORS	3-Dec-03
LEFT REAR DOOR UPPER C/L (Y)	AC-9440-017	GS SENSORS	1-Dec-03
LOWER LEFT B- PILLAR (Y)	AC-B11408	ENDEVCO	25-Sep-03
MIDDLE LEFT B-PILLAR (Y)	AC-A13513	ENDEVCO	25-Sep-03
LOWER LEFT A-PILLAR (Y)	AC-9450-039	GS SENSORS	6-Oct-03
UPPER LEFT A-PILLAR (Y)	AC-9440-045	GS SENSORS	16-Dec-03
FRONT SEAT TRACK (Y)	AC-AY03	ENDEVCO	22-Jan-04
REAR SEAT TRACK (Y)	AC-J31034	ENDEVCO	22-Jan-04
VEHICLE CG (X)	AC-J37980	ENDEVCO	22-Sep-03
VEHICLE CG (Y)	AC-J37854	ENDEVCO	22-Sep-03
VEHICLE CG (Z)	AC-J38127	ENDEVCO	22-Sep-03
MDB CG (X)	AC-C16433	ENDEVCO	12-Feb-04
MDB CG (Y)	AC-C16416	ENDEVCO	12-Feb-04
MDB CG (Z)	AC-C16499	ENDEVCO	12-Feb-04
MDB REAR FRAME MEMBER (X)	AC-C14948	ENDEVCO	12-Feb-04
MDB REAR FRAME MEMBER (Y)	AC-C16680	ENDEVCO	12-Feb-04

REMARKS: None