

REPORT NUMBER: 201U-CAL-06-01

**SAFETY COMPLIANCE TESTING FOR FMVSS 201
OCCUPANT PROTECTION IN INTERIOR IMPACT
UPPER INTERIOR HEAD IMPACT PROTECTION**

**GENERAL MOTORS CORPORATION
2006 CHEVROLET COBALT, 2-DOOR, LS COUPE**

NHTSA NUMBER: C60101

CALSPAN TEST NUMBER: 8754-FMH-08

CALSPAN
TRANSPORTATION SCIENCES CENTER
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Test Date: March 14, 2006

FINAL REPORT

PREPARED FOR:

U. S. DEPARTMENT OF TRANSPORTATION
National Highway Traffic Safety Administration
Enforcement
Office of Vehicle Safety Compliance
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16. <i>Abstract</i> Compliance tests were conducted on the subject vehicle, a 2006 Chevrolet Cobalt, 2-door, LS Coupe, in accordance with the specifications of the Office of Vehicle Safety Compliance Test Procedure TP-201U-01 for determination of FMVSS 201 compliance. Test failures identified were as follows in the table below:																							
<table border="1"> <thead> <tr> <th>Target Point</th> <th>Horizontal</th> <th>Vertical</th> <th>Velocity</th> <th>HIC</th> <th>HICd</th> </tr> </thead> <tbody> <tr> <td>API</td> <td>118°</td> <td>47°</td> <td>23.49</td> <td>1162.0</td> <td>1043.1</td> </tr> <tr> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> </tr> </tbody> </table>						Target Point	Horizontal	Vertical	Velocity	HIC	HICd	API	118°	47°	23.49	1162.0	1043.1	-	-	-	-	-	-
Target Point	Horizontal	Vertical	Velocity	HIC	HICd																		
API	118°	47°	23.49	1162.0	1043.1																		
-	-	-	-	-	-																		
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SECTION 1

PURPOSE AND TEST PROCEDURE

This head impact compliance test is part of the FMVSS 201, Upper Interior Head Impact Protection, Test Program sponsored by the National Highway Traffic Safety Administration (NHTSA) under Contract No. DTNH22-04-C-01027. The purpose of this head impact compliance test was to determine whether the subject vehicle, a 2006 Chevrolet Cobalt, 2-door, LS Coupe, NHTSA No.C60101, met the performance requirements of FMVSS 201, Occupant Protection in Interior Impact. The compliance test was conducted in accordance with the OVSC Laboratory Test Procedure No. TP-201U-01 dated April_03, 1998.

SECTION 2

SUMMARY OF UPPER INTERIOR HEAD IMPACTS

A 2006 Chevrolet Cobalt, 2-door, LS Coupe , NHTSA No.C60101 , was tested at various upper interior locations by a 4.54 kg 50th percentile headform. A total of ten (10) impacts were performed in the test series with the target areas tested selected by the NHTSA Contracting Officer's Technical Representative. A summary of test results can be found on Data Sheet 2-1, Summary of Upper Interior Head Impact Tests. The ten (10) areas chosen for testing were:

RP1	BP2	BP1	URSR2B	AP3
AP1	SR2A	SR3	URBP	URSR2A

The selected impact areas on the test vehicle appeared to comply with the performance requirements of FMVSS 201.

Five Free Motion Headforms (FMH) were used in this test series. All five FMH's were calibrated prior to and after the test series. Calibration information are included in Appendix B. Each FMH weighed 4.54 ± 0.5 kg and had an orthogonal tri-axis accelerometer pack mounted at the headform's center of gravity (c.g.).

A total of three (3) channels of data for each test were recorded on a Keyser-Threde data acquisition system. Data plots, along with still images, can be found in Section 3, Summary of Test Results and Data Plots.

To document each target area impact test, a Weinberger high-speed video camera was placed at an appropriate location to record the headform contact with the selected target area.

DATA SHEET 2-1
SUMMARY OF UPPER INTERIOR HEAD IMPACT TESTS

VEHICLE YEAR/MAKE/MODEL/STYLE:	2006 Chevrolet Cobalt 2-door LS Coupe
VIN:	1G1AK15F867688159
DATE OF MANUFACTURE:	10/05 (SEE CERTIFICATION LABEL)
COLOR:	Black

TARGET CODE	Target Coordinates						Approach Angles (degrees)		Velocity (kph)	FMH HIC	HIC(d)
	Driver Side			Passenger Side			Horizontal	Vertical			
	X(mm)	Y(mm)	Z(mm)	X(mm)	Y(mm)	Z(mm)					
AP1	2857.046	-498.861	1225.949	2858.0417	498.1289	1224.6163	Relocated 1 circle		-	-	-
AP1_R1	-	-	-	2879.9401	505.3839	1223.2848	118°	47°	23.49	1162.0	1043.1
AP2	2689.182	-563.809	1138.119	2686.3182	563.9277	1136.5995	-	-	-	-	-
AP3	2556.845	-589.634	1071.673	2556.4449	589.1734	1073.0601	131°	40°	23.64	600.0	619.0
BP1	3703.143	-443.513	1275.031	3697.2666	442.545	1273.7346	90°	39°	23.77	860.7	815.8
BP2	3641.823	-579.937	1062.323	3646.6163	575.8539	1066.1961	90°	1°	23.46	806.8	775.1
BP3	3592.04	-608.879	1081.491	3596.5989	603.9565	1080.0578	-	-	-	-	-
BP4	3713.855	-638.244	986.3099	3716.7551	633.7495	983.8605	-	-	-	-	-
FH1	2804.847	-394.176	1247.555	2799.8387	390.8459	1245.4916	-	-	-	-	-
FH2	2794.303	-245.161	1256.202	2794.2005	240.5611	1255.2005	-	-	-	-	-
RH	3934.213	-331.003	1276.522	3936.6661	329.6299	1271.7557	-	-	-	-	-
RP1	3919.252	-481.358	1238.37	3919.0224	483.2031	1235.3271	Relocated 1 circle		-	-	-
RP1_R1	3895.373	-479.602	1228.954	3895.4504	476.5076	1228.4018	79°	36°	23.56	354.3	433.7
RP2	4187.43	-589.886	1090.97	4191.5043	583.1956	1087.1285	Relocated 1 circle		-	-	-
RP2_R1	4176.247	-577.332	1106.247	4177.2723	571.4232	1102.0743	-	-	-	-	-
RP2_R2	4160.365	-565.036	1123.344	4158.4662	561.7815	1115.9603	-	-	-	-	-
SR1	3007.448	-464.567	1259.775	3005.3175	463.5648	1260.0927	-	-	-	-	-
SR2A	3157.261	-459.722	1272.068	3155.7315	458.5237	1270.9554	90°	45°	23.41	546.5	578.7
SR2B	3402.102	-459.388	1276.232	3396.1612	457.8053	1274.7449	-	-	-	-	-
SR3	3852.14	-518.06	1211.575	3846.0856	519.321	1208.1957	270°	47°	23.40	615.3	630.6
URAP	2997.914	-378.392	1282.06	2997.0383	372.2769	1282.0684	-	-	-	-	-
URBP	3707.163	-356.177	1319.05	3696.8962	355.71	1317.3841	270°	47°	23.42	646.9	654.5
URRP	3792.435	-372.259	1303.965	3793.0702	370.0243	1300.6666	-	-	-	-	-
URSR2A	3251.338	-356.89	1318.708	3223.6902	352.567	1317.878	270°	50°	23.48	506.8	548.8
URSR2B	3480.877	-356.233	1322.585	3441.3563	352.6564	1318.7834	90°	49°	23.76	737.6	722.9

*HIC(d)=0.75446(Free Motion Headform HIC)+166.4

DATA SHEET 2-2

GENERAL TEST AND VEHICLE PARAMETER DATA

TEST VEHICLE INFORMATION:									
Year/Make/Model/Body Style:				2006 Chevrolet Cobalt, 2-door, LS Coupe					
VIN:				1G1AK15F867688159					
Month & Year of Manufacture:				10/05 (SEE CERTIFICATION LABEL)					
Vehicle Body Color:				Black					
Engine Data:	4	Cylinders;	-	CID;	2.2	Liters;	-	cc	
Engine Placement:		x	Longitudinal;	or		-	Lateral		
Transmission:	5	Speed;	x	Manual;	-	Automatic;	-	Overdrive	
Final Drive:	-	Rear Wheel Drive;	x	Front Wheel Drive;	-	Four Wheel Drive			
Odometer Reading:		39	km						
Options:	x	A/C;	x	Power Steering;	x	Pwr.Brakes;	-	Pwr. Windows	
Interior Trim Information :									
1. Seat belt anchorages on both b-pillars									
2. No sun roof									
3. No curtain airbag system									

DATA FROM TIRE PLACARD:									
Tire Pressure (at capacity);				210		kPa FRONT			
				210		kPa REAR			
Recommended Tire Size:				P195/60R15					
Tires on Test Vehicle:		P195/60R15		Manufacturer:			Continental		
Vehicle Capacity Data:									
Number of Occupants:	2	Front;	3	Rear;	-	3rd Seat;	5	Total	
Type of Front Seats:	x	Bucket;	-	Bench;	-	Split Bench			
Type of Front Seat Back:	-	Fixed;	x	Adjustable with	x	Lever or	-	Knob	
Vehicle Capacity Weight (VCW)=				404		kg (A)			
No. of Occupants x 68 kg. =				340		kg (B)			
Rated Cargo/Luggage Weight (RCLW) =				56		kg (A-B) Max. RCLW = 136 kg.			

DATA SHEET 2-2

GENERAL TEST AND VEHICLE PARAMETER DATA (cont.)

TEST VEHICLE DELIVERED WEIGHT WITH MAXIMUM FLUIDS:							
Left Front	=	370	kg	Left Rear	=	246	kg
Right Front	=	371	kg	Right Rear	=	240	kg
TOTAL FRONT	=	741	kg	TOTAL REAR	=	486	kg
% of Total Weight	=	60.4	%	% of Total Weight	=	39.6	%
TOTAL WEIGHT	=	1227				kg	

CALCULATION OF VEHICLE'S TARGET TEST WEIGHT:		
Total Test Vehicle Delivered Weight=	1227	kg (A)
+ Rated Cargo/Luggage Weight =	56	kg (B)
TEST VEHICLE TARGET WEIGHT =	1283	kg (A+B)

WEIGHT OF TEST VEHICLE (FULLY LOADED):							
Left Front	=	368	kg	Left Rear	=	273	kg
Right Front	=	372	kg	Right Rear	=	264	kg
TOTAL FRONT	=	740	kg	TOTAL REAR	=	537	kg
% of Total Weight	=	57.9	%	% of Total Weight	=	42.1	%
TOTAL TEST WEIGHT	=	1277					
Weight of vehicle secured in test vehicles cargo area	=	50				kg	

TEST VEHICLE ATTITUDE (all dimensions in millimeters):				
AS DELIVERED:	Left Front	701	Left Rear	707
	Right Front	701	Right Rear	712
FULLY LOADED:	Left Front	696	Left Rear	693
	Right Front	697	Right Rear	697
Test Vehicle Wheelbase:	2625		millimeters	

TEST VEHICLE PITCH AND ROLL ANGLES:				
AS DELIVERED:	PITCH ANGLES		ROLL ANGLES	
	Left Door Sill	↓0.4	Front Bumper	↓0.1
	Right Door Sill	↑0.2	Rear Bumper	↓0.1
FULLY LOADED:	PITCH ANGLES		ROLL ANGLES	
	Left Door Sill	↓0.2	Front Bumper	↓0.2
	Right Door Sill	↓0.1	Rear Bumper	0.0
AS TESTED:	PITCH ANGLES		ROLL ANGLES	
	Left Door Sill	↓0.2	Front Bumper	↓0.2
	Right Door Sill	↑0.2	Rear Bumper	0.0

DATA SHEET 2-3

APPROACH ANGLE LIMITS

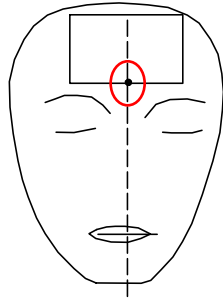
Target Code	Left Side				Target Code	Right Side			
	Horizontal Angles (deg.)		Vertical Angles (deg.)			Horizontal Angles (deg.)		Vertical Angles (deg.)	
	Minimum	Maximum	Minimum	Maximum		Minimum	Maximum	Minimum	Maximum
AP1	202	248	-5	47	AP1	114	158	-5	47
AP2	202	248	-5	44	AP2	114	158	-5	44
AP3	202	248	-5	40	AP3	114	158	-5	40
BP1	219	308	-10	39	BP1	60	141	-10	39
BP2	ANY		0	1	BP2	ANY		0	1
BP3	219	308	-10	-10	BP3	60	141	-10	-10
BP4	219	308	-10	-10	BP4	60	141	-10	-10
OP1	270		-10	-	OP1	90		-10	-
OP2	270		-10	-	OP2	90		-10	-
RP1	270	345	-10	36	RP1	15	90	-10	36
RP2	270	345	-10	0	RP2	15	90	-10	0
FH1	180		0	50	FH1	180		0	50
FH2	180		0	50	FH2	180		0	50
RH	360		0	50	RH	0		0	50
SR1	270		0	46	SR1	90		0	46
SR2A	270		0	45	SR2A	90		0	45
SR2B	270		0	45	SR2B	90		0	45
SR3	270		0	47	SR3	90		0	47
SR3GH	270		0	-	SR3GH	90		0	-
URAP	ANY		0	50	URAP	ANY		0	50
URBP	ANY		0	47	URBP	ANY		0	47
URRP	ANY		0	50	URRP	ANY		0	50
URSR2A	ANY		0	50	URSR2A	ANY		0	50
URSR2B	ANY		0	49	URSR2B	ANY		0	49

Note : BP2 target location – Seat belt anchorage

DATA SHEET 2-4

SUMMARY TARGET IMPACT LOCATION ON FMH

VEHICLE YEAR/MAKE/MODEL/STYLE:	2006 Chevrolet Cobalt, 2-door, LS Coupe
VIN:	1G1AK15F867688159
DATE OF MANUFACTURE:	10/05 (SEE CERTIFICATION LABEL)
COLOR:	Black



ã RIGHT SIDE OF FACE

TARGET	Distance Above Point O (mm)	Distance Over From Pt. O (mm)
RP1	30	2 L
BP2	0	0
BP1	20	0
URSR2B	38	4 L
AP3	16	5 L
AP1	24	3 R
SR2A	22	0
SR3	18	4 R
URBP	36	2 R
URSR2A	32	4 R

SECTION 3

SUMMARY OF TEST RESULTS AND DATA PLOTS

VEHICLE YEAR/MAKE/MODEL/STYLE:	2006 Chevrolet Cobalt, 2-door, LS Coupe
VIN:	1G1AK15F867688159
DATE OF MANUFACTURE:	10/05 (SEE CERTIFICATION LABEL)
COLOR:	Black

Test Number:	01
Test Date:	03/13/06
Target Location:	REAR PILLAR
Target Code:	RP1
Horizontal Impact Angle:	79°
Vertical Impact Angle:	36°
Ambient Temperature:	22.1 C°
Relative Humidity:	53.8
Time of Impact:	9:49
Headform Number:	0355

Impact Point Description (from lower midpoint on midsagittal line)			
On Centerline	2	mm right	x mm left
On Centerline	30	mm up	



POST-IMPACT RP1 HEADFORM

Free Motion HIC	354.3
HIC(d)	433.7
Impact Velocity (kph)	23.56
HIC T1 (msec)	3.0
HIC T2 (msec)	10.7

FMVSS 201U IMPACT TEST - 2006 Chevrolet Cobalt C60101 - RP1

FMH Headform 0355

Location: P-RP1

Test Date: March 13, 2006

Work File: RP1

-----TEST RESULTS-----

Lab Temperature: 22.1 C

HICd: 433.7

Lab Humidity: 53.8 %

HIC (36ms): 354.3

Velocity at Impact: 23.56 KPH

t1: 3.0 msec

t2: 10.7 msec

Free Flight Distance: 222.41 mm

Duration: 7.7 msec

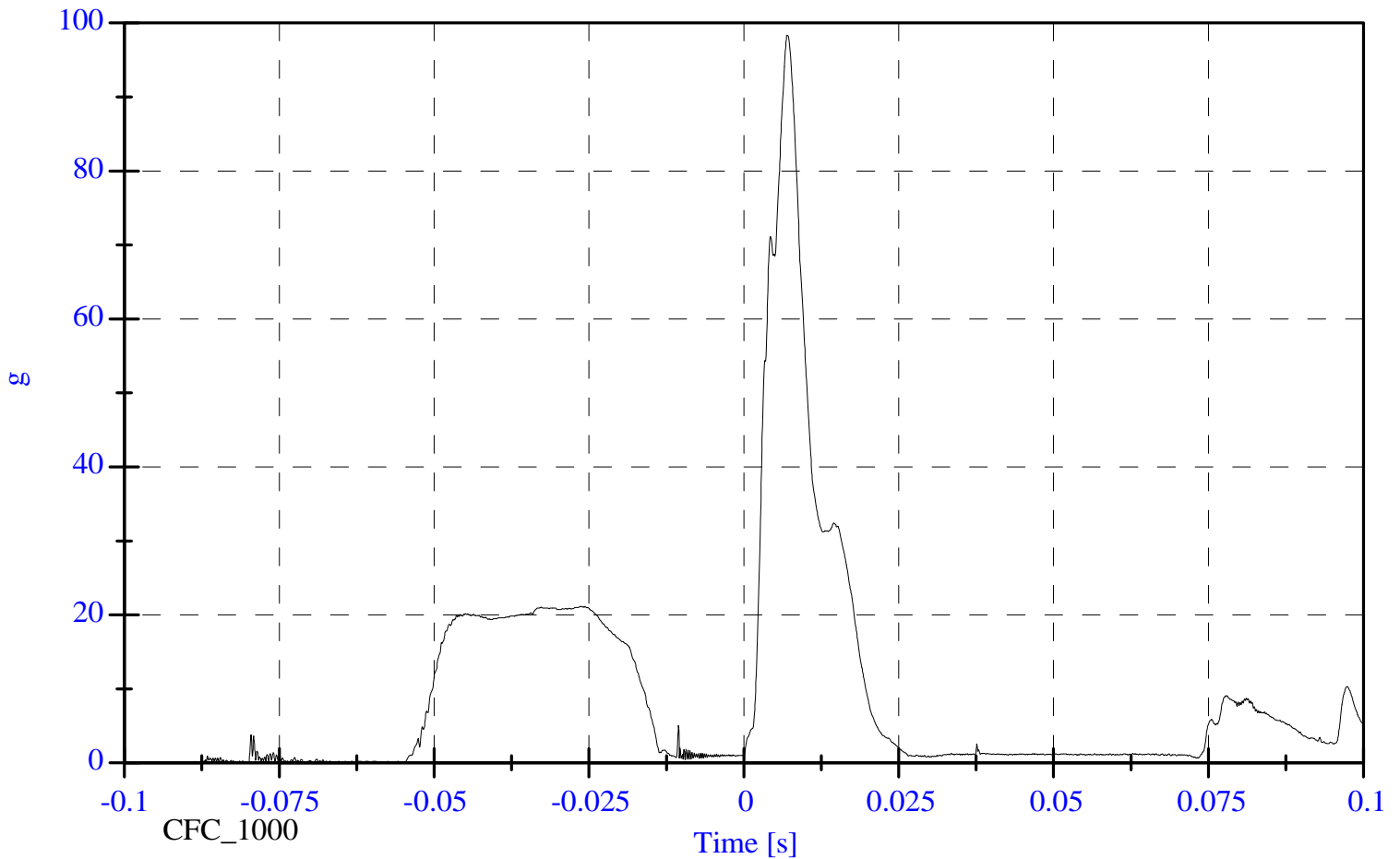
Maximum: 98.4 g

Average Acceleration: 9.0 g

FMVSS 201U IMPACT TEST - 2006 Chevrolet Cobalt
Headform Resultant

Max: 98.4 [g] at 0.007 [s]

Min: 0.0 [g] at -0.098 [s]



FMVSS 201U IMPACT TEST - 2006 Chevrolet Cobalt

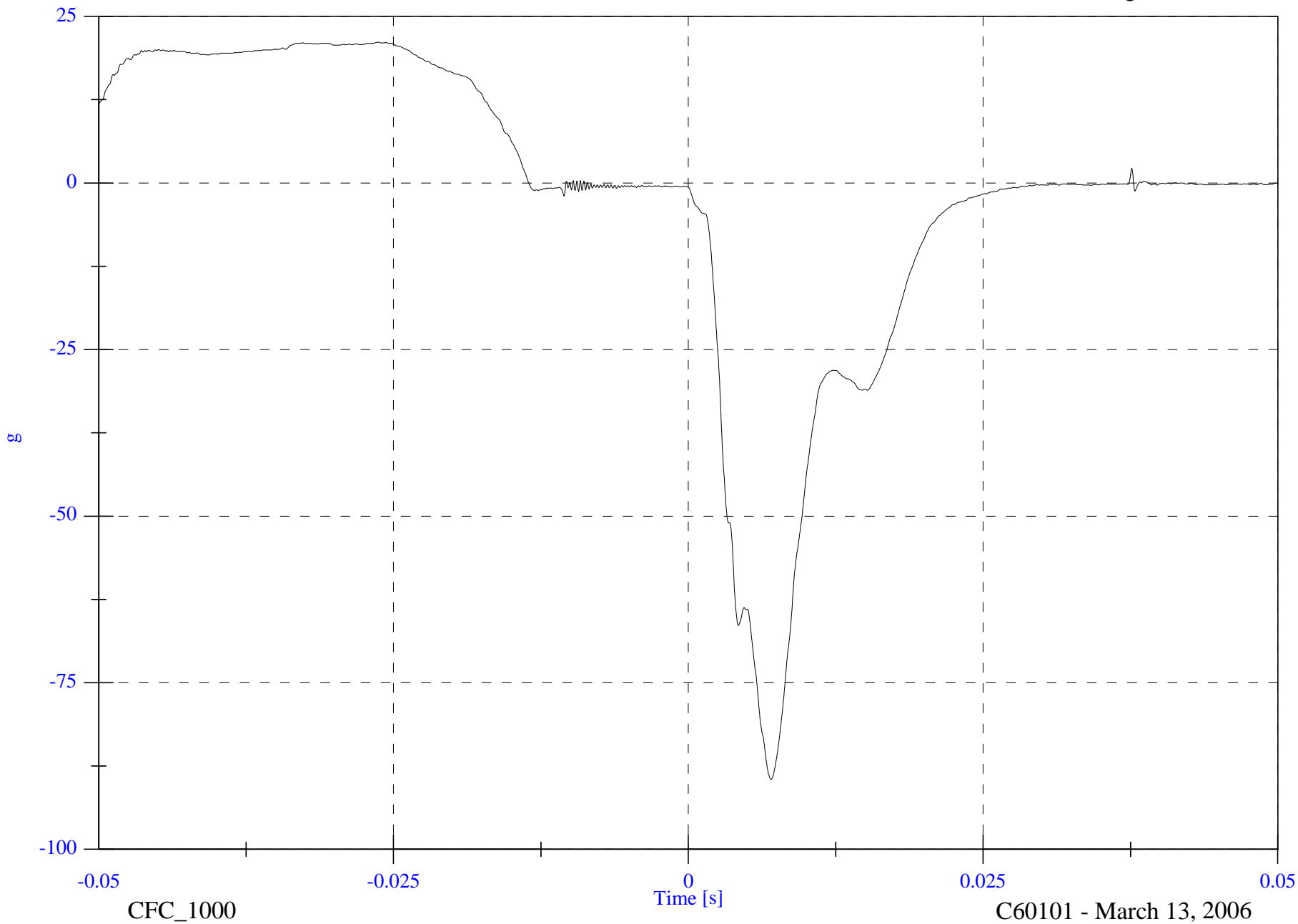
Headform X Acceleration

Max: 21.1 [g] at -0.026 [s]

Min: -89.5 [g] at 0.007 [s]

C60101 PASSENGER SIDE RP1 IMPACT PLOT #1

8754+FMH-08



CFC_1000

C60101 - March 13, 2006

FMVSS 201U IMPACT TEST - 2006 Chevrolet Cobalt

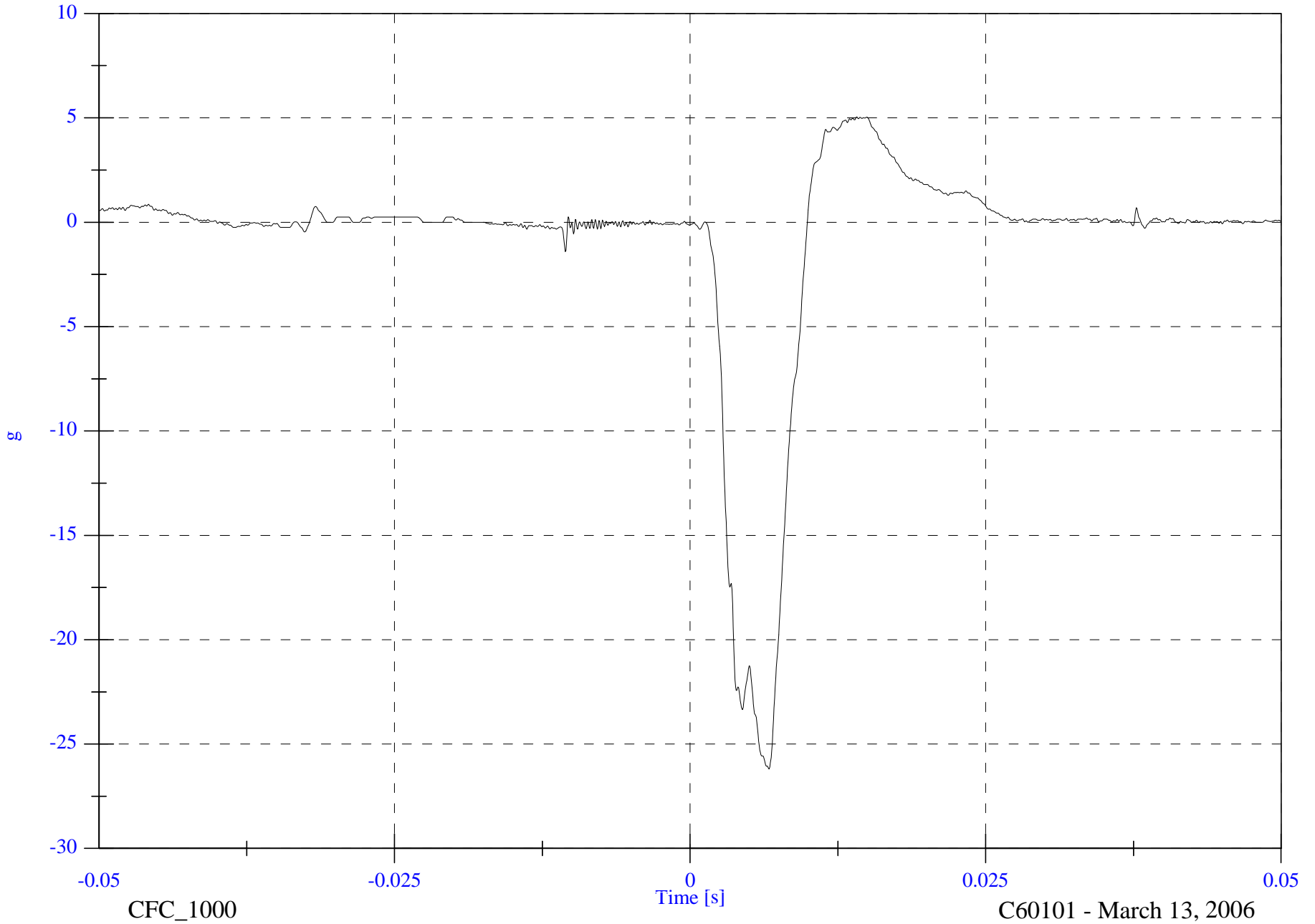
Headform Y Acceleration

Max: 5.0 [g] at 0.014 [s]

Min: -26.2 [g] at 0.007 [s]

C60101 PASSENGER SIDE RP1 IMPACT PLOT #2

8754+FMH-08



CFC_1000

C60101 - March 13, 2006

FMVSS 201U IMPACT TEST - 2006 Chevrolet Cobalt

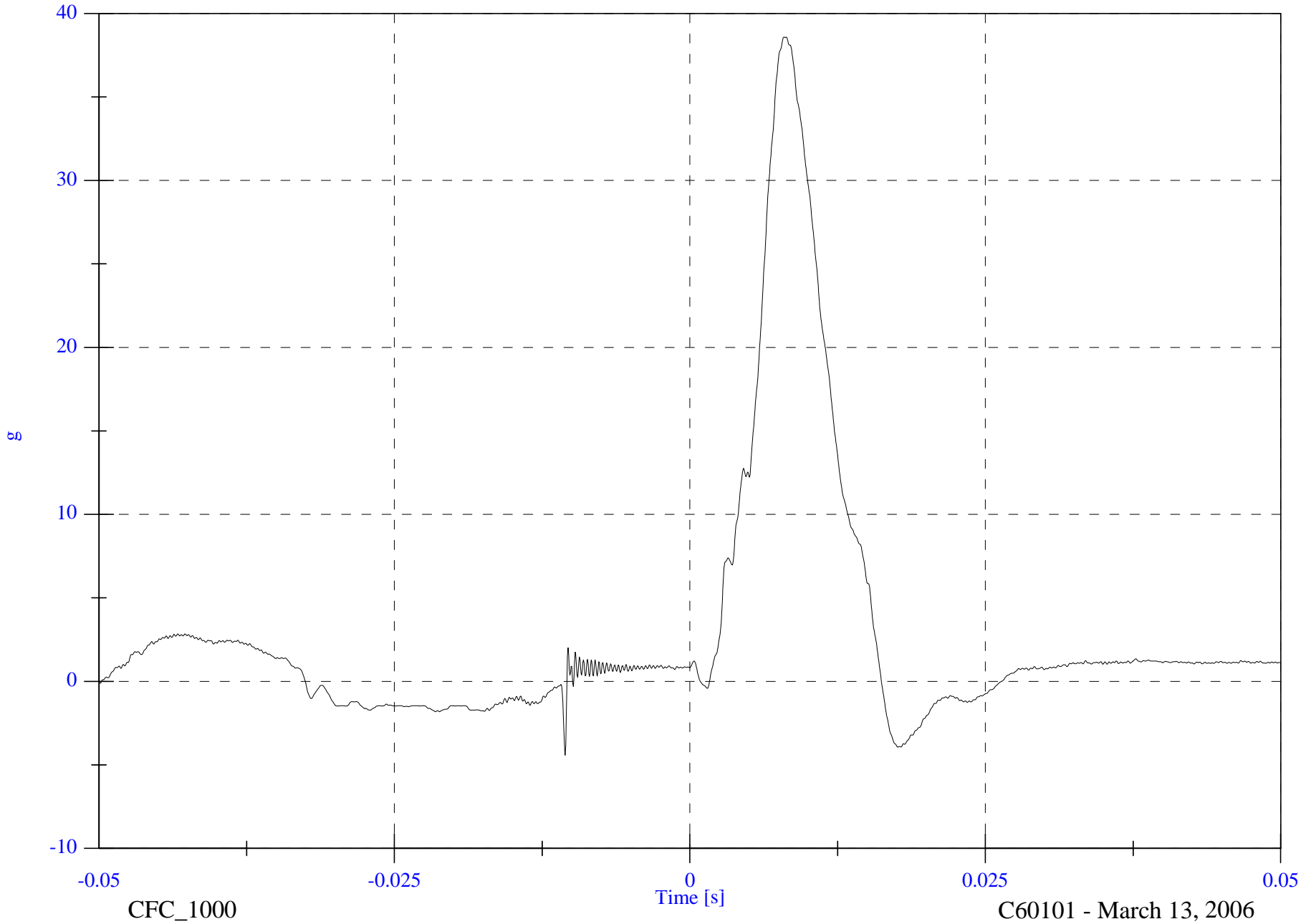
Headform Z Acceleration

Max: 38.6 [g] at 0.008 [s]

Min: -4.4 [g] at -0.011 [s]

C60101 PASSENGER SIDE RP1 IMPACT PLOT #3

8754-FMH-08



CFC_1000

C60101 - March 13, 2006

FMVSS 201U IMPACT TEST - 2006 Chevrolet Cobalt

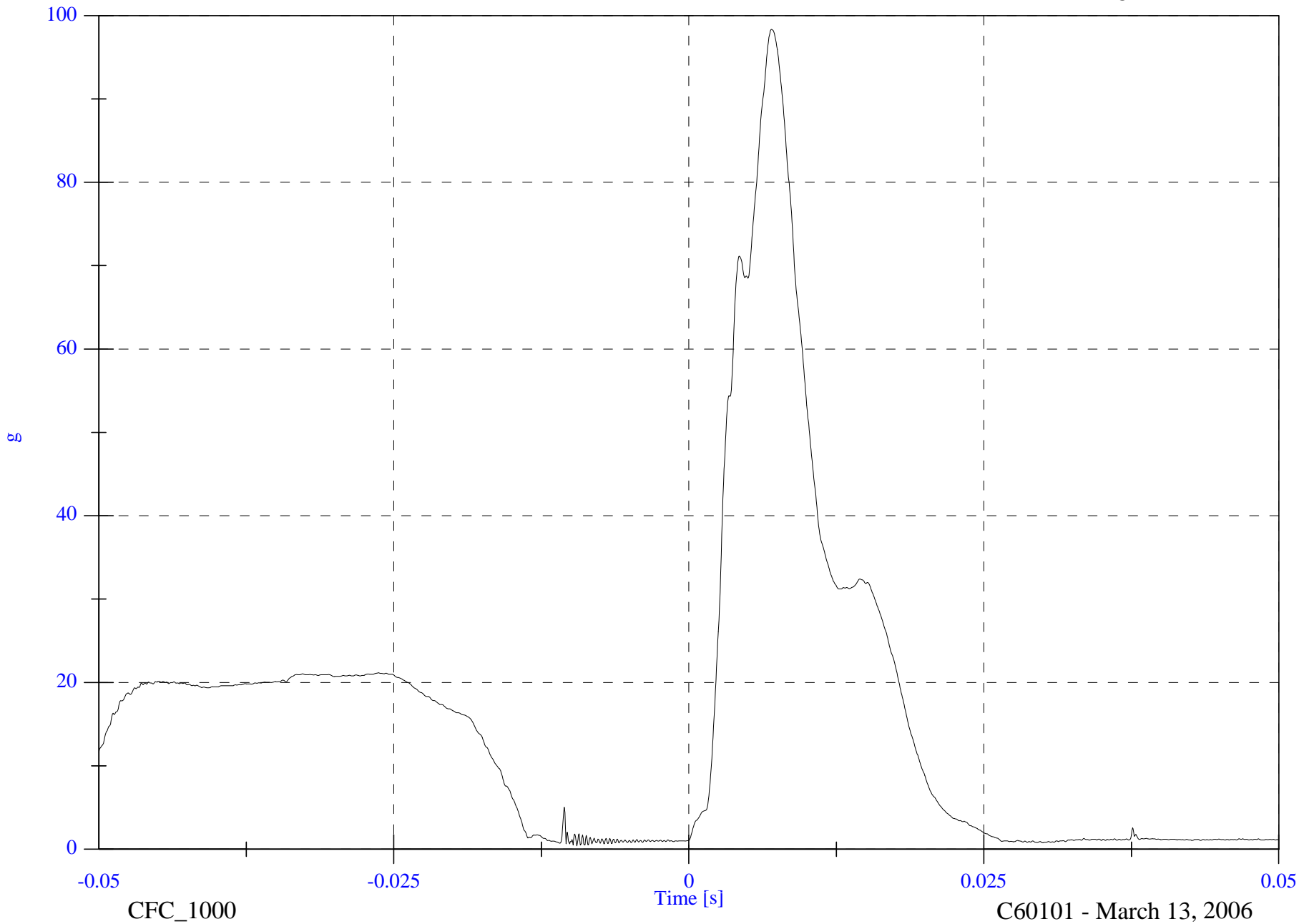
Headform Resultant

Max: 98.4 [g] at 0.007 [s]

Min: 0.4 [g] at -0.009 [s]

C60101 PASSENGER SIDE RP1 IMPACT PLOT #4

8754+FMH-08



CFC_1000

C60101 - March 13, 2006

FMVSS 201U IMPACT TEST - 2006 Chevrolet Cobalt

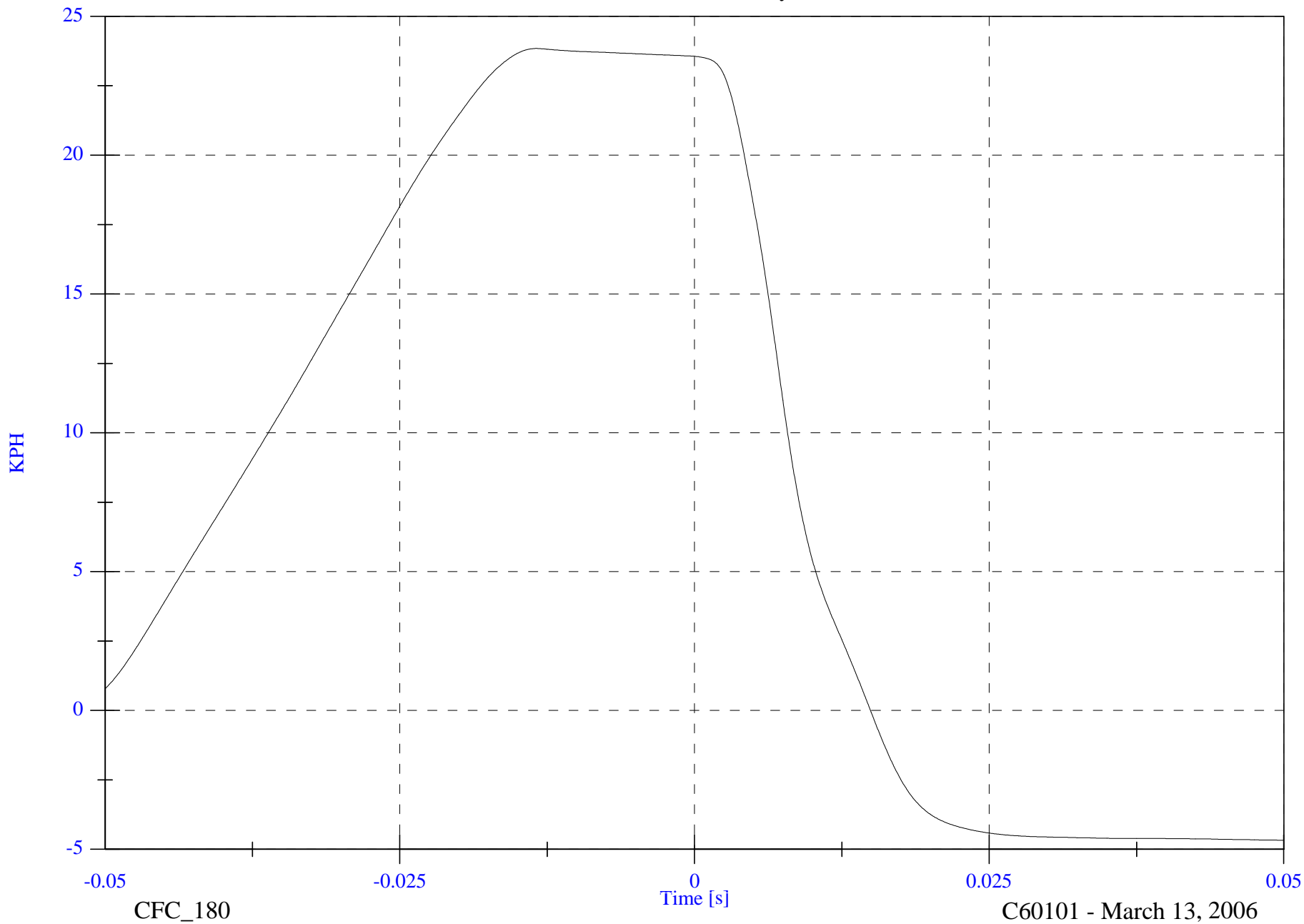
Headform Velocity

Max: 23.8 [KPH] at -0.013 [s]

Min: -4.7 [KPH] at 0.050 [s]

C60101 PASSENGER SIDE RP1 IMPACT PLOT #5

8754+FMH-08



CFC_180

C60101 - March 13, 2006



PRE-IMPACT RP1

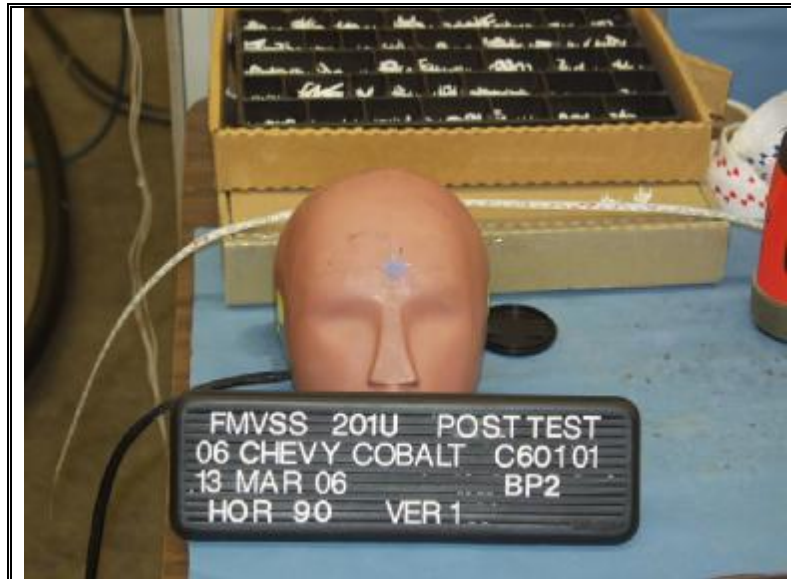


POST-IMPACT RPI

VEHICLE YEAR/MAKE/MODEL/STYLE:	2006 Chevrolet Cobalt, 2-door, LS Coupe
VIN:	1G1AK15F867688159
DATE OF MANUFACTURE:	10/05 (SEE CERTIFICATION LABEL)
COLOR:	Black

Test Number:	02
Test Date:	03/13/06
Target Location:	B-PILLAR
Target Code:	BP2
Horizontal Impact Angle:	90°
Vertical Impact Angle:	1°
Ambient Temperature:	22.1 C°
Relative Humidity:	53.0
Time of Impact:	10:20
Headform Number:	0805

Impact Point Description (from lower midpoint on midsagittal line)					
On Centerline	0	<input type="checkbox"/>	mm right	<input type="checkbox"/>	mm left
On Centerline	0				mm up



POST-IMPACT BP2 HEADFORM

Free Motion HIC	806.8
HIC(d)	775.1
Impact Velocity (kph)	23.46
HIC T1 (msec)	1.2
HIC T2 (msec)	8.2

FMVSS 201U IMPACT TEST - 2006 Chevrolet Cobalt C60101 - BP2

FMH Headform 0805

Location: BP2

Test Date: March 13, 2006

Work File: BP2

-----TEST RESULTS-----

Lab Temperature: 22.1 C

HICd: 775.1

Lab Humidity: 53.0 %

HIC (36ms): 806.8

Velocity at Impact: 23.46 KPH

t1: 1.2 msec

t2: 8.2 msec

Free Flight Distance: 214.98 mm

Duration: 7.0 msec

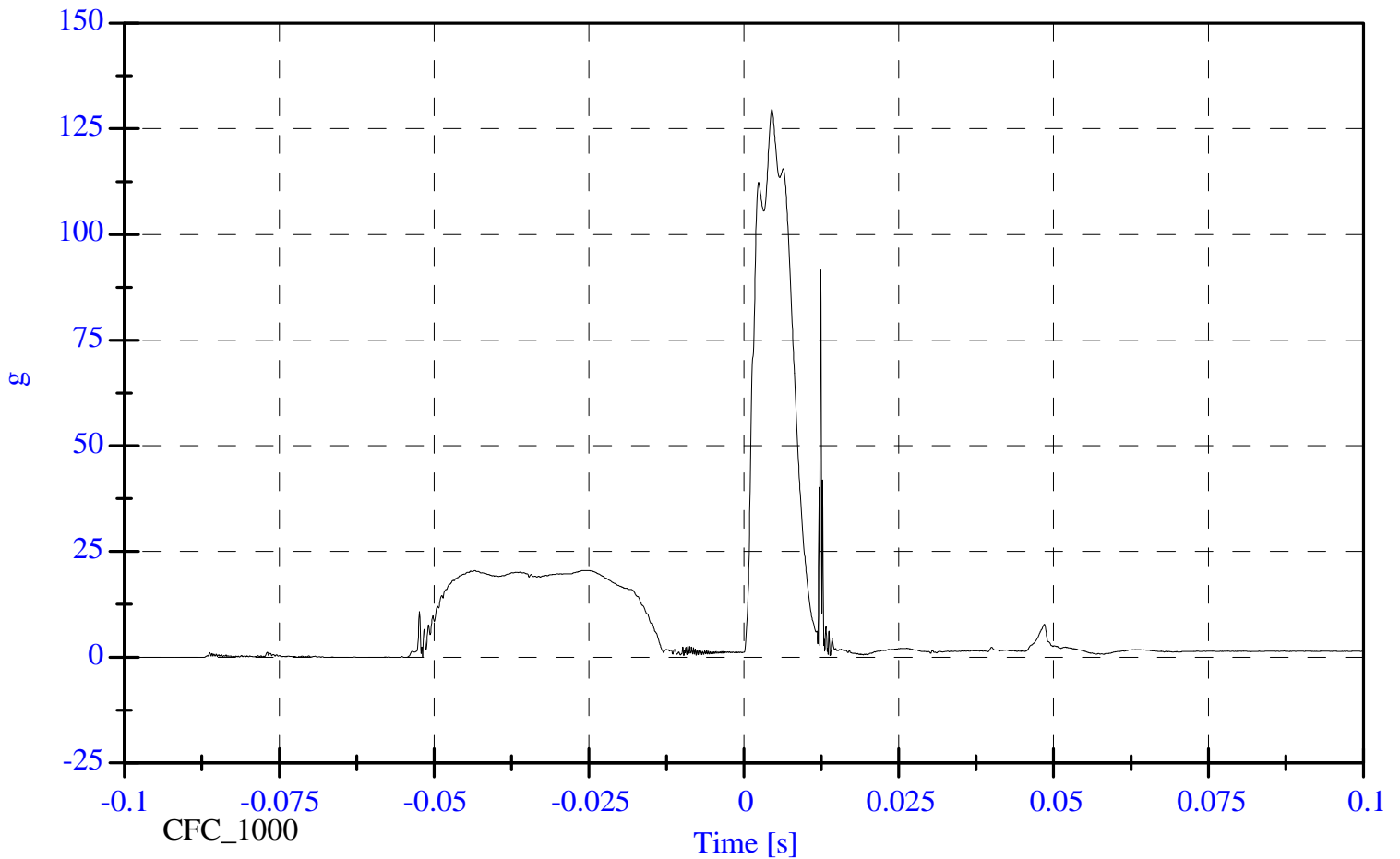
Maximum: 129.6 g

Average Acceleration: 8.6 g

FMVSS 201U IMPACT TEST - 2006 Chevrolet Cobalt
Headform Resultant

Max: 129.6 [g] at 0.005 [s]

Min: -0.0 [g] at -0.099 [s]



FMVSS 201U IMPACT TEST - 2006 Chevrolet Cobalt

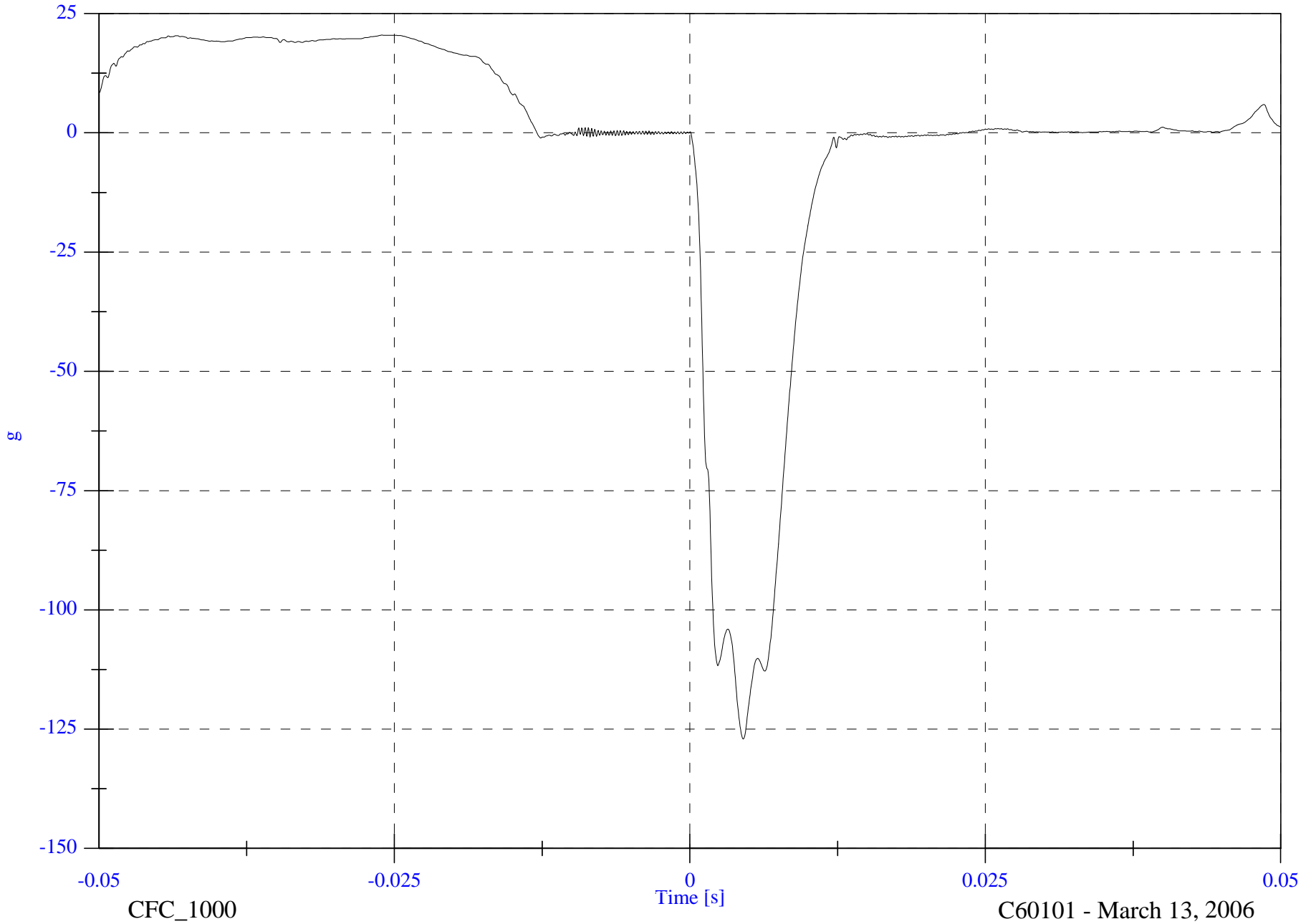
Headform X Acceleration

Max: 20.5 [g] at -0.026 [s]

Min: -127.1 [g] at 0.005 [s]

C60101 PASSENGER SIDE BP2 IMPACT PLOT #1

8754+FMH-08



CFC_1000

C60101 - March 13, 2006

FMVSS 201U IMPACT TEST - 2006 Chevrolet Cobalt

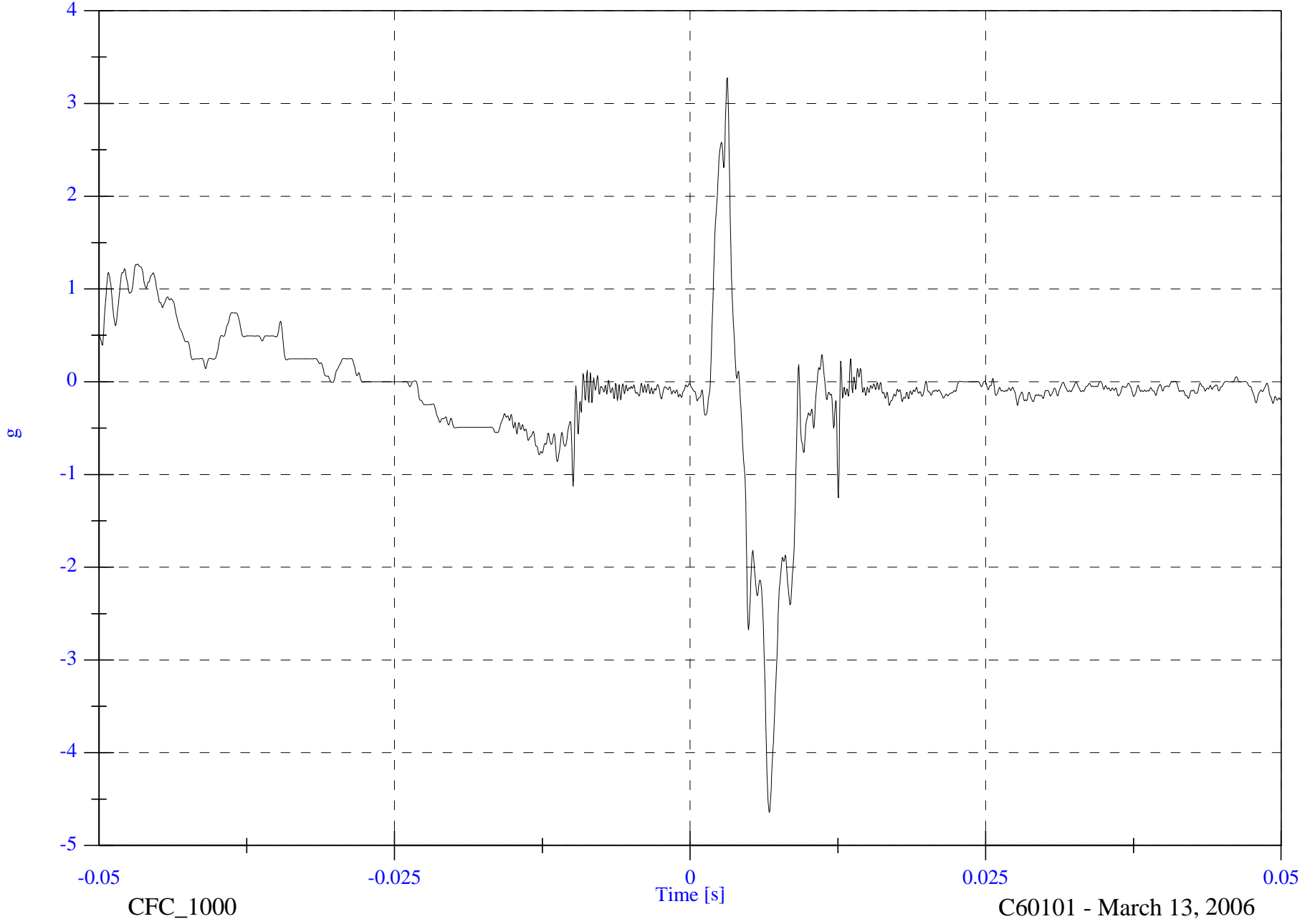
Headform Y Acceleration

Max: 3.3 [g] at 0.003 [s]

Min: -4.6 [g] at 0.007 [s]

C60101 PASSENGER SIDE BP2 IMPACT PLOT #2

8754+FMH-08



CFC_1000

C60101 - March 13, 2006

FMVSS 201U IMPACT TEST - 2006 Chevrolet Cobalt

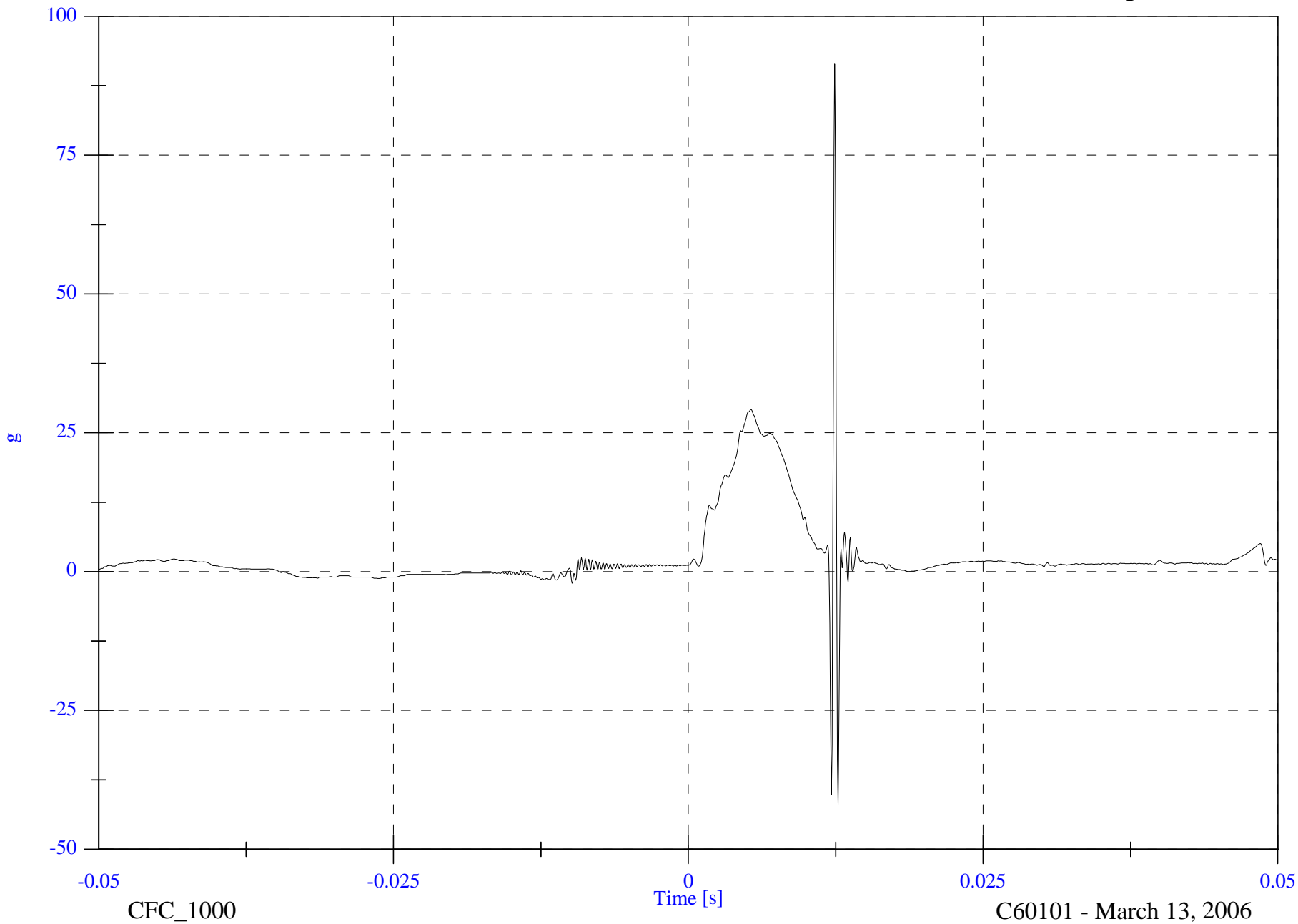
Headform Z Acceleration

Max: 91.5 [g] at 0.012 [s]

Min: -41.9 [g] at 0.013 [s]

C60101 PASSENGER SIDE BP2 IMPACT PLOT #3

8754+FMH-08



CFC_1000

C60101 - March 13, 2006

FMVSS 201U IMPACT TEST - 2006 Chevrolet Cobalt

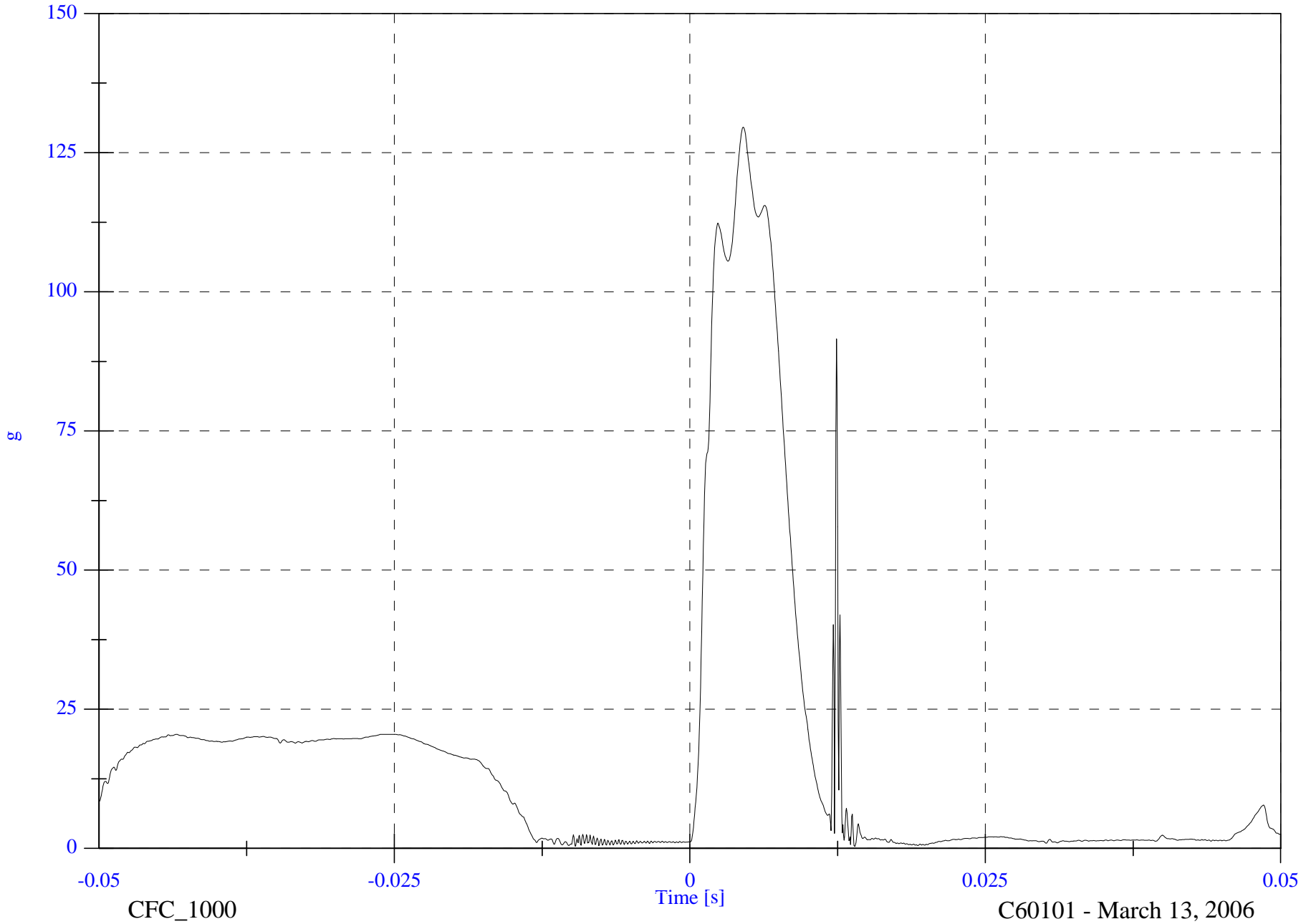
Headform Resultant

Max: 129.6 [g] at 0.005 [s]

Min: 0.3 [g] at 0.014 [s]

C60101 PASSENGER SIDE BP2 IMPACT PLOT #4

8754+FMH-08



FMVSS 201U IMPACT TEST - 2006 Chevrolet Cobalt

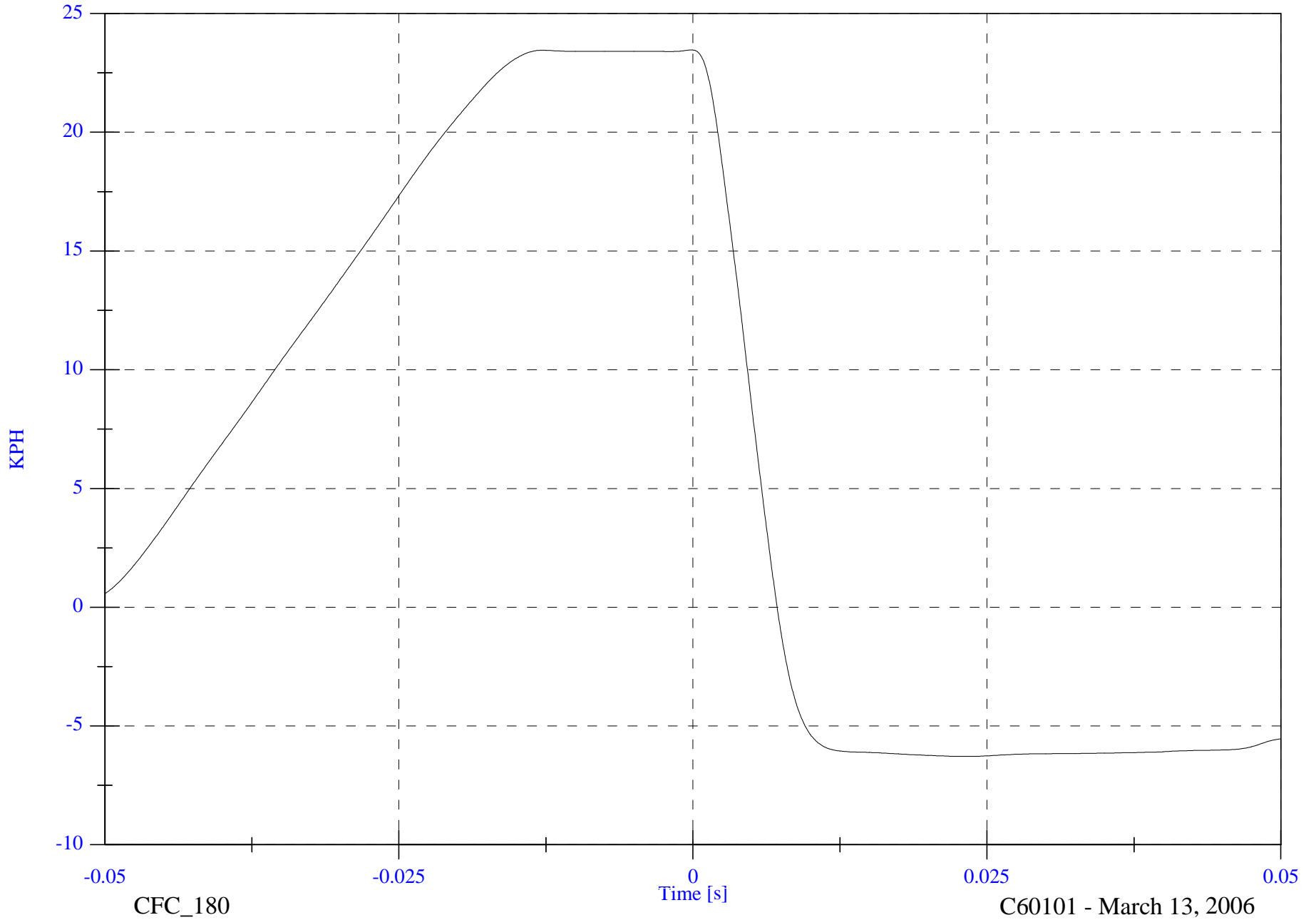
Headform Velocity

Max: 23.5 [KPH] at -0.000 [s]

Min: -6.3 [KPH] at 0.023 [s]

C60101 PASSENGER SIDE BP2 IMPACT PLOT #5

8754+FMH-08



CFC_180

C60101 - March 13, 2006



PRE-IMPACT BP2

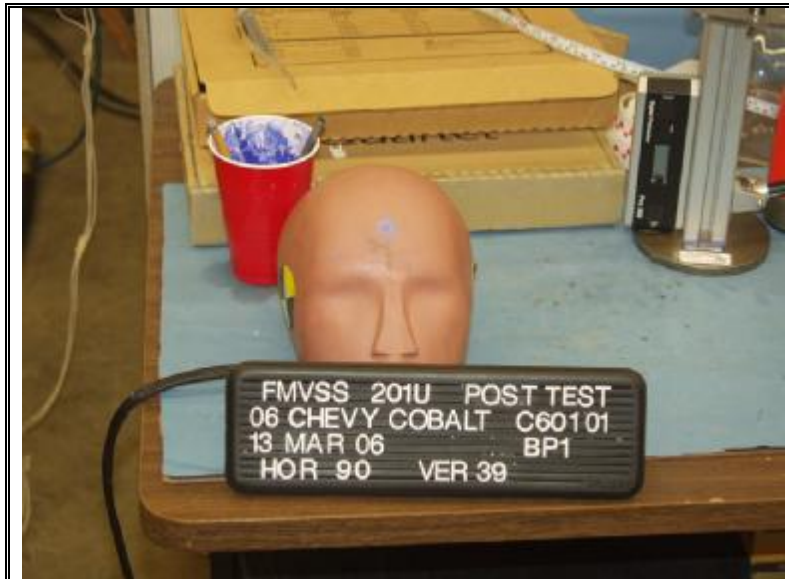


POST-IMPACT BP2

VEHICLE YEAR/MAKE/MODEL/STYLE:	2006 Chevrolet Cobalt, 2-door, LS Coupe
VIN:	1G1AK15F867688159
DATE OF MANUFACTURE:	10/05 (SEE CERTIFICATION LABEL)
COLOR:	Black

Test Number:	03
Test Date:	03/13/06
Target Location:	B-PILLAR
Target Code:	BP1
Horizontal Impact Angle:	90°
Vertical Impact Angle:	39°
Ambient Temperature:	22.7 C°
Relative Humidity:	49.3
Time of Impact:	10:55
Headform Number:	1255

Impact Point Description (from lower midpoint on midsagittal line)			
On Centerline	0	<input type="checkbox"/>	mm right <input type="checkbox"/> mm left
On Centerline	20		mm up



POST-IMPACT BP1 HEADFORM

Free Motion HIC	860.7
HIC(d)	815.8
Impact Velocity (kph)	23.77
HIC T1 (msec)	3.6
HIC T2 (msec)	10.6

FMVSS 201U IMPACT TEST - 2006 Chevrolet Cobalt C60101 - BP1

FMH Headform 1255

Location: BP1

Test Date: March 13, 2006

Work File: BP1

-----TEST RESULTS-----

Lab Temperature: 22.7 C

HICd: 815.8

Lab Humidity: 49.3 %

HIC (36ms): 860.7

Velocity at Impact: 23.77 KPH

t1: 3.6 msec

t2: 10.6 msec

Free Flight Distance: 216.23 mm

Duration: 7.0 msec

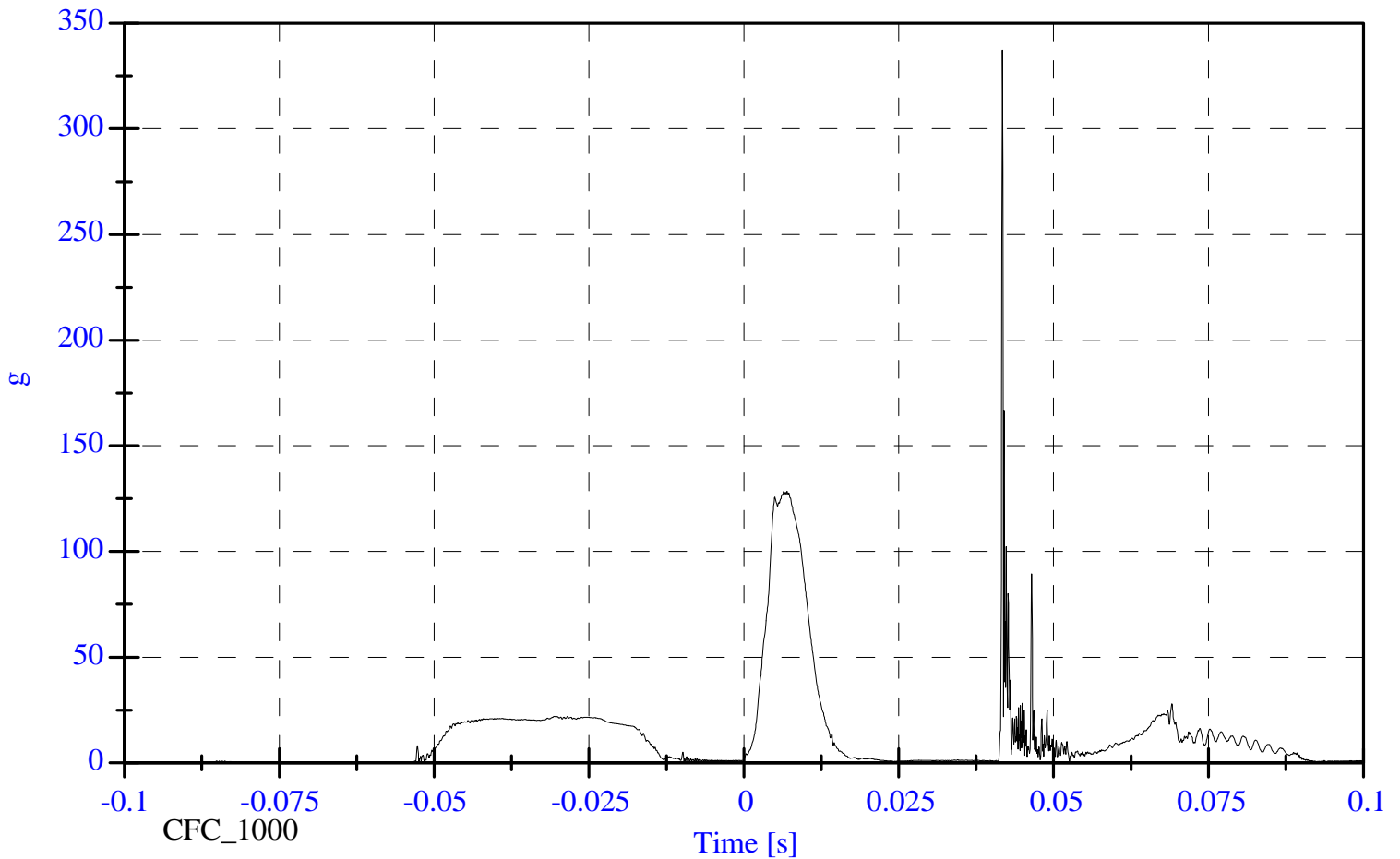
Maximum: 128.5 g

Average Acceleration: 12.0 g

FMVSS 201U IMPACT TEST - 2006 Chevrolet Cobalt
Headform Resultant

Max: 128.5 [g] at 0.007 [s]

Min: 0.0 [g] at -0.059 [s]



FMVSS 201U IMPACT TEST - 2006 Chevrolet Cobalt

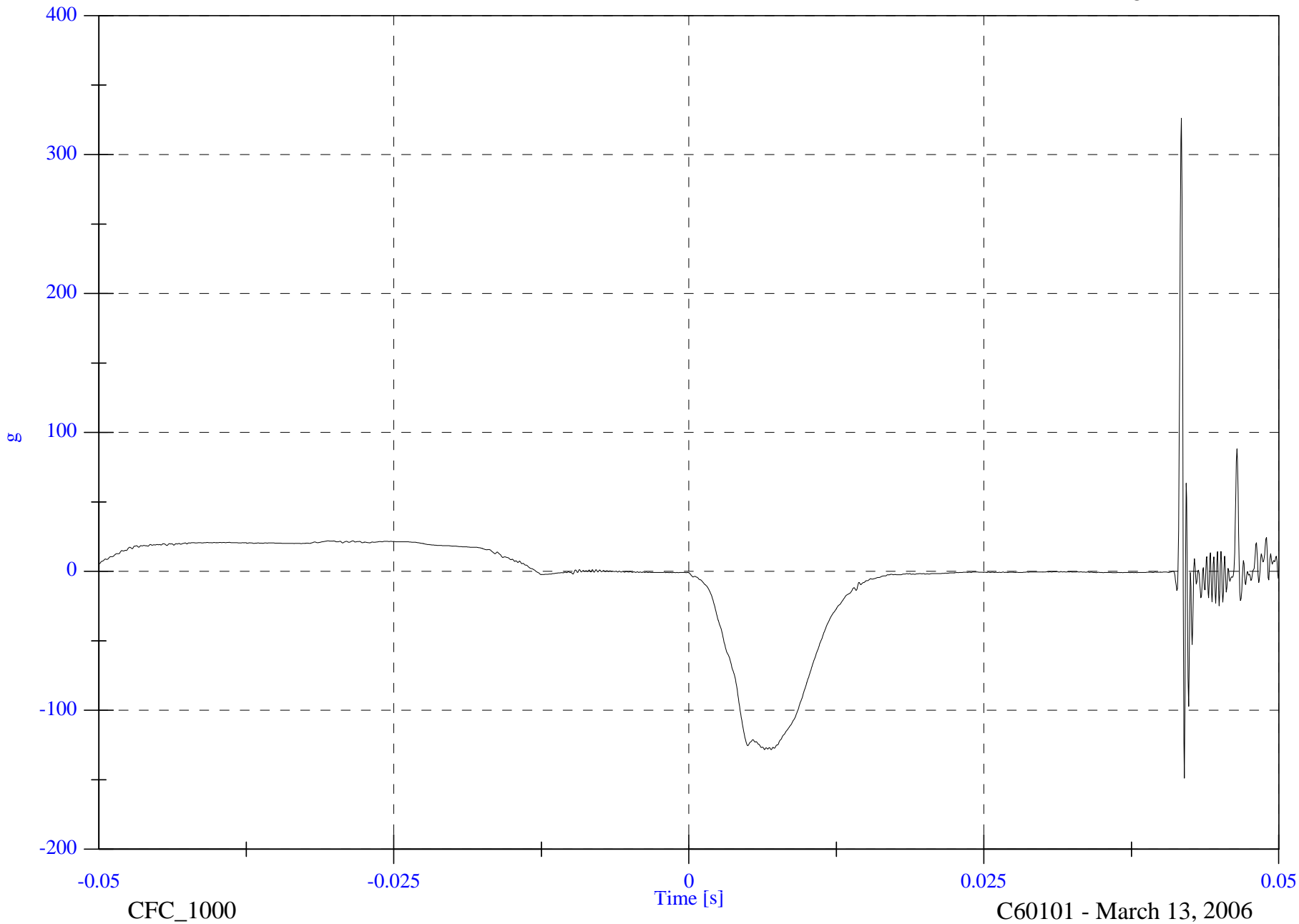
Headform X Acceleration

Max: 326.2 [g] at 0.042 [s]

Min: -148.9 [g] at 0.042 [s]

C60101 PASSENGER SIDE BP1 IMPACT PLOT #1

8754+FMH-08



FMVSS 201U IMPACT TEST - 2006 Chevrolet Cobalt

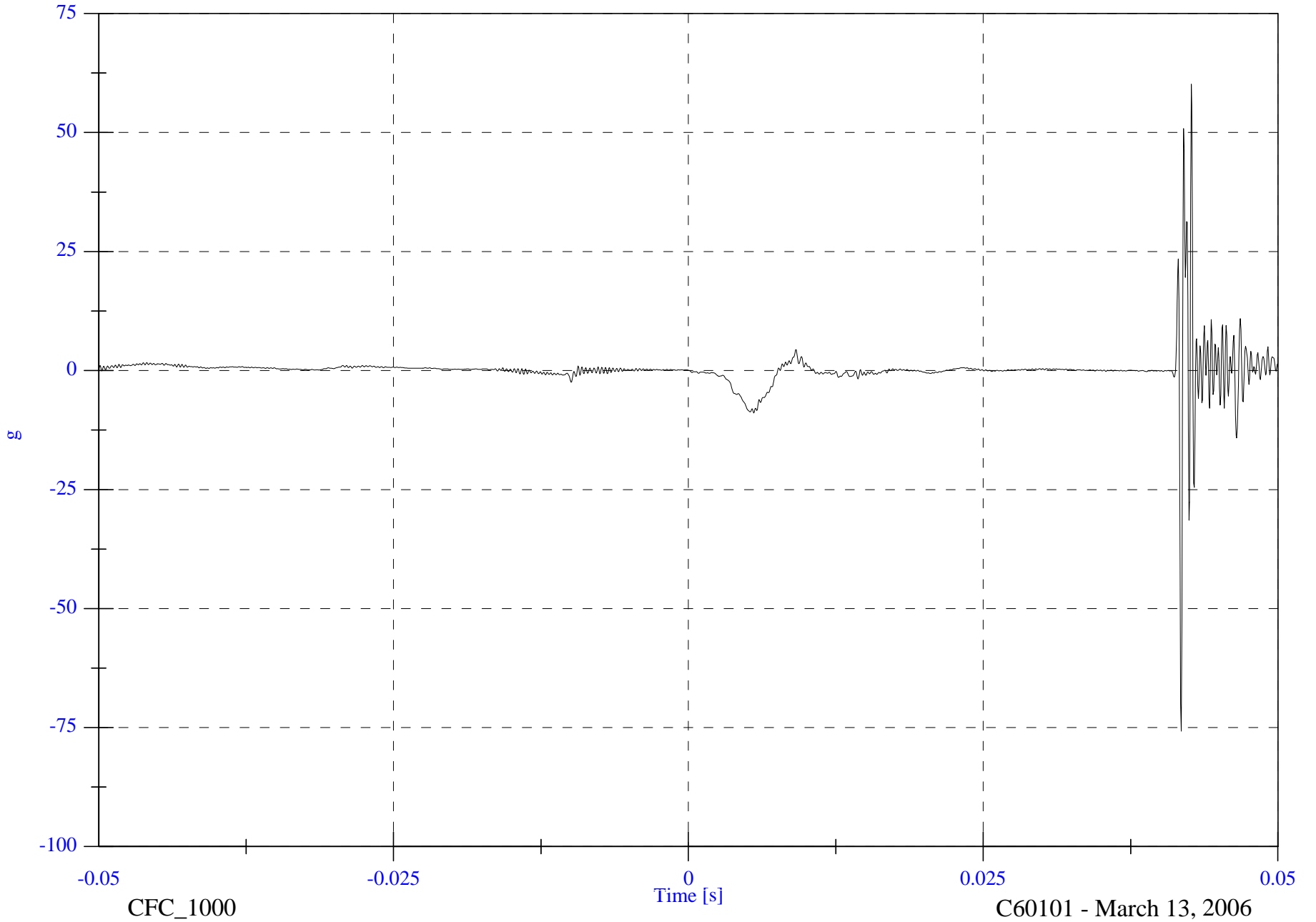
Headform Y Acceleration

Max: 60.2 [g] at 0.043 [s]

Min: -75.8 [g] at 0.042 [s]

C60101 PASSENGER SIDE BP1 IMPACT PLOT #2

8754+FMH-08



CFC_1000

C60101 - March 13, 2006

FMVSS 201U IMPACT TEST - 2006 Chevrolet Cobalt

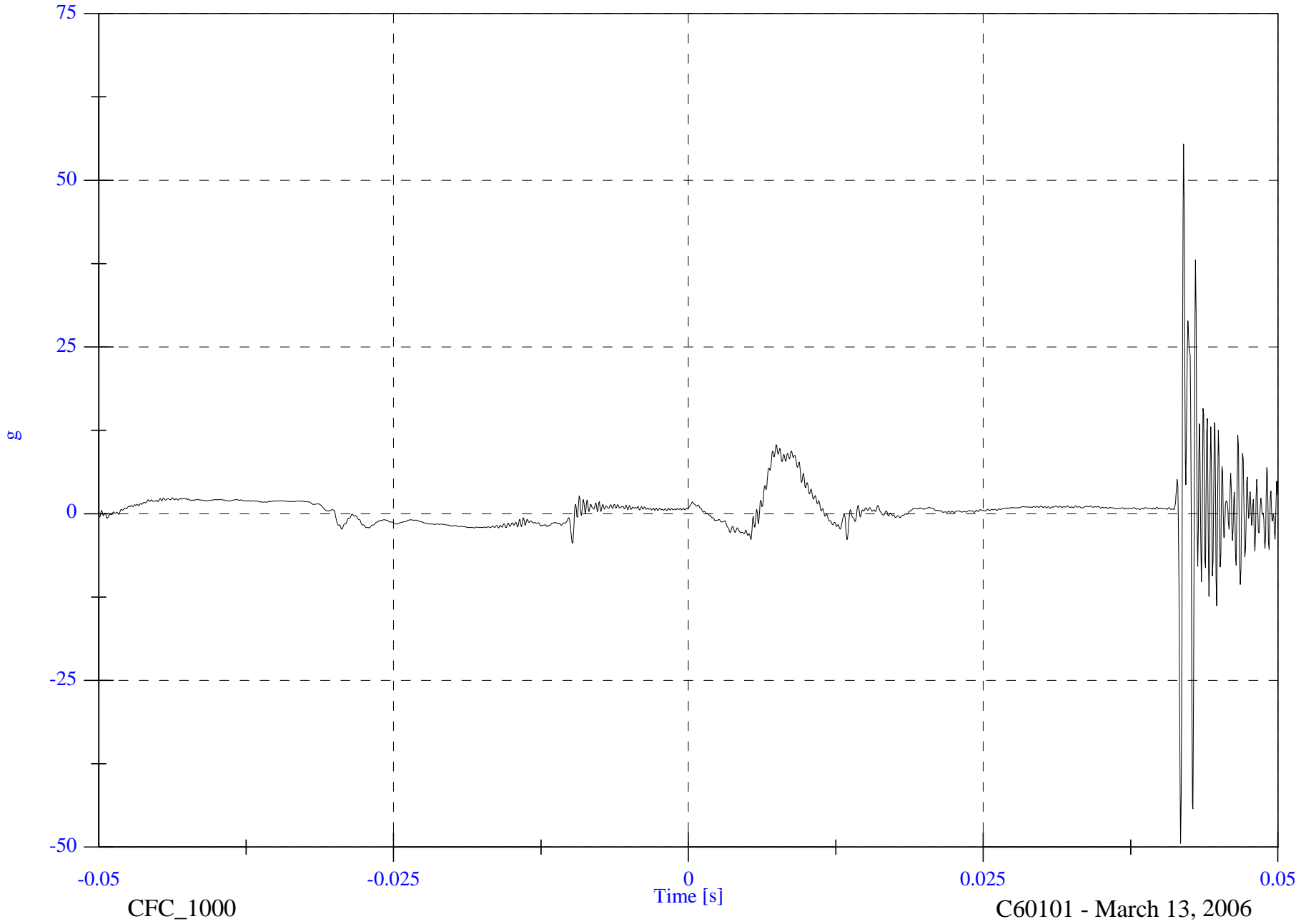
Headform Z Acceleration

Max: 55.5 [g] at 0.042 [s]

Min: -49.5 [g] at 0.042 [s]

C60101 PASSENGER SIDE BP1 IMPACT PLOT #3

8754-FMH-08



CFC_1000

C60101 - March 13, 2006

FMVSS 201U IMPACT TEST - 2006 Chevrolet Cobalt

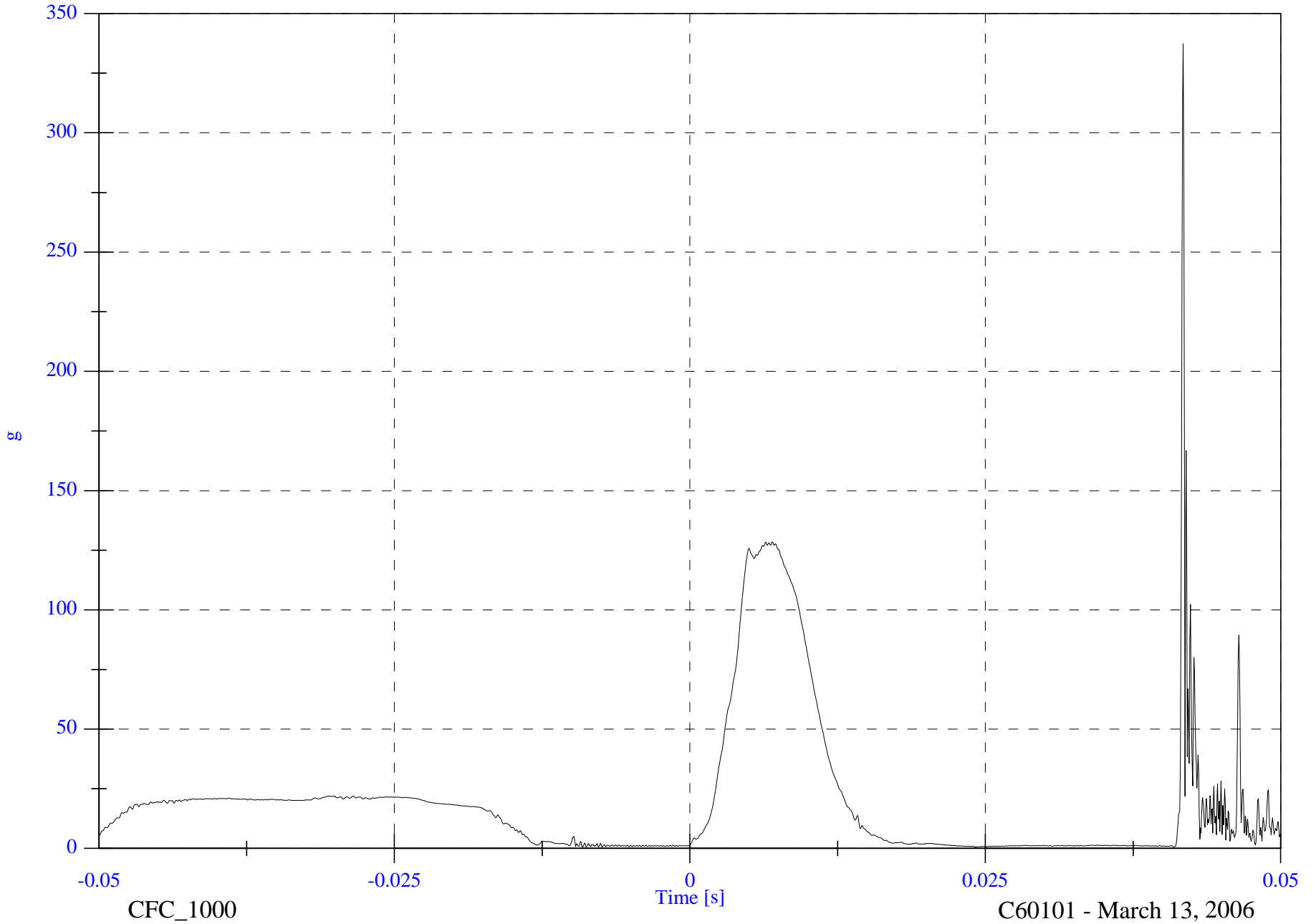
Headform Resultant

Max: 337.3 [g] at 0.042 [s]

Min: 0.4 [g] at -0.007 [s]

C60101 PASSENGER SIDE BP1 IMPACT PLOT #4

8754-FMH-08



CFC_1000

C60101 - March 13, 2006

FMVSS 201U IMPACT TEST - 2006 Chevrolet Cobalt

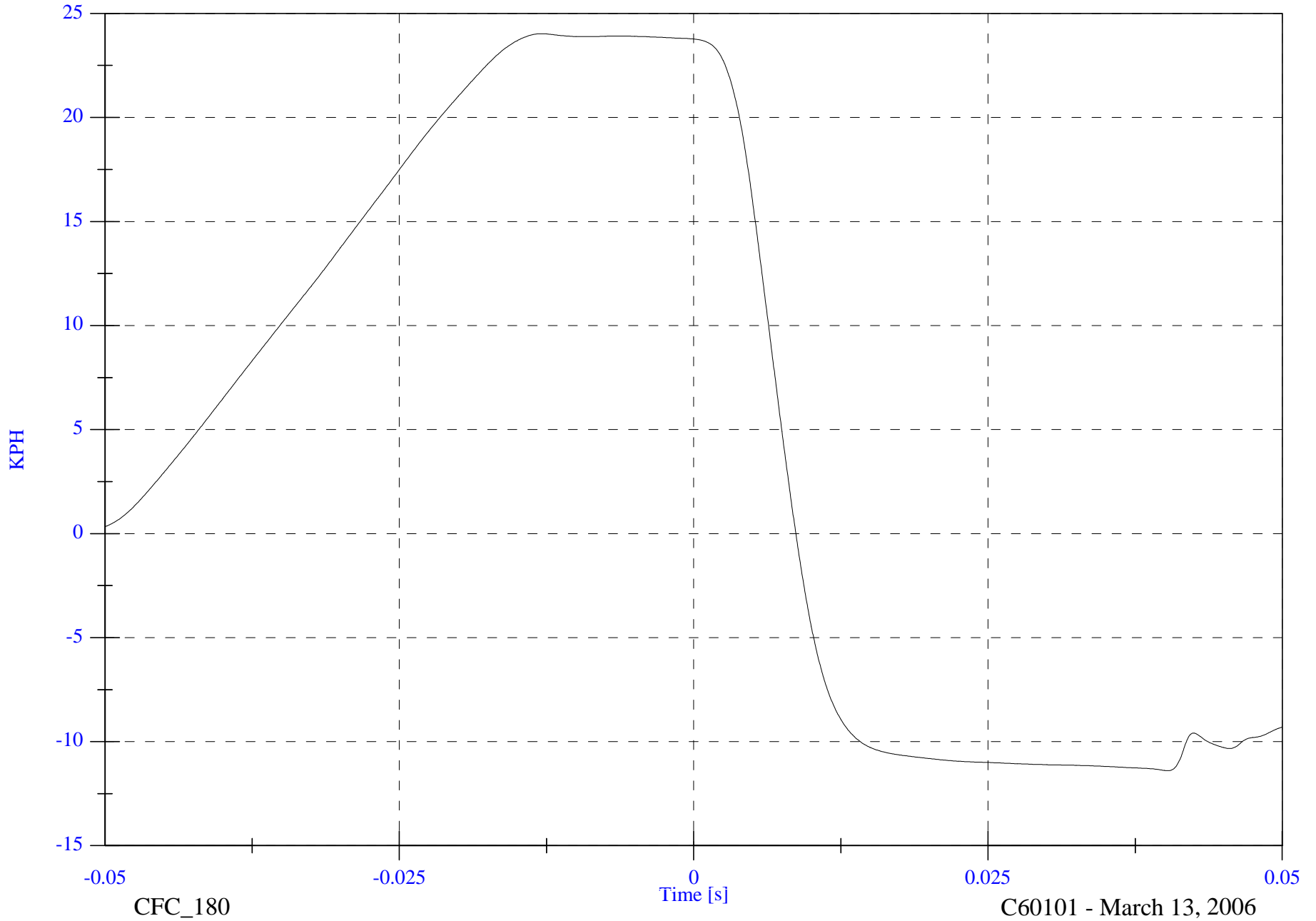
Headform Velocity

Max: 24.0 [KPH] at -0.013 [s]

Min: -11.4 [KPH] at 0.040 [s]

C60101 PASSENGER SIDE BP1 IMPACT PLOT #5

8754+FMH-08

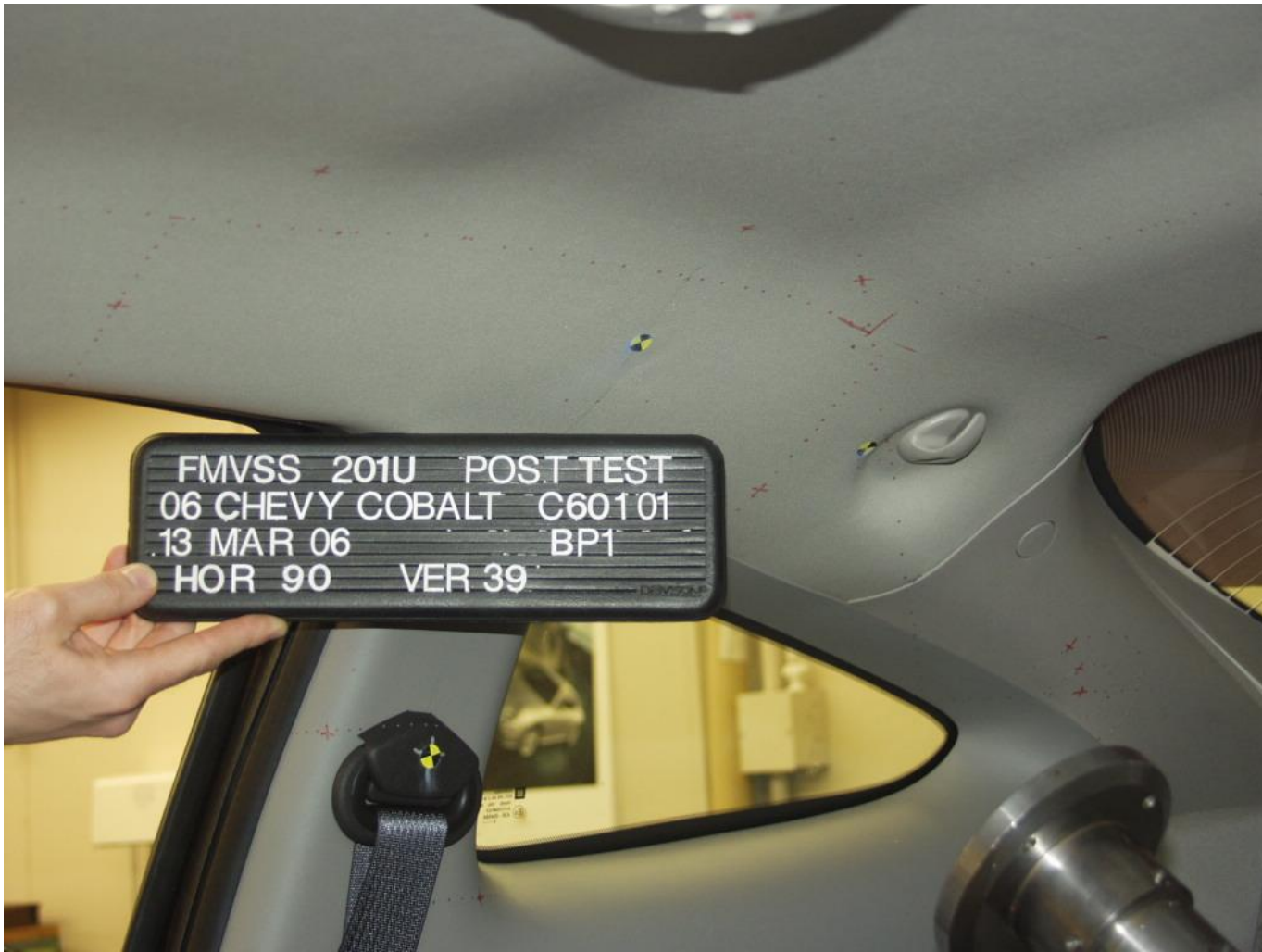


CFC_180

C60101 - March 13, 2006



PRE-IMPACT BP1

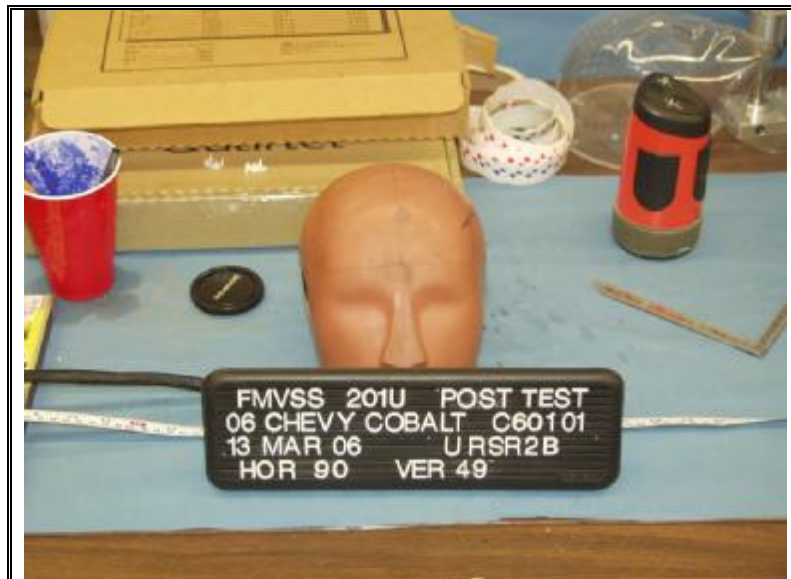


POST-IMPACT BP1

VEHICLE YEAR/MAKE/MODEL/STYLE:	2006 Chevrolet Cobalt, 2-door, LS Coupe
VIN:	1G1AK15F867688159
DATE OF MANUFACTURE:	10/05 (SEE CERTIFICATION LABEL)
COLOR:	Black

Test Number:	04
Test Date:	03/13/06
Target Location:	UPPER ROOF
Target Code:	URSR2B
Horizontal Impact Angle:	90°
Vertical Impact Angle:	49°
Ambient Temperature:	23.3 C°
Relative Humidity:	48
Time of Impact:	11:25
Headform Number:	0062

Impact Point Description (from lower midpoint on midsagittal line)			
On Centerline	4	mm right	x mm left
On Centerline	38	mm up	



POST-IMPACT URSR2B HEADFORM

Free Motion HIC	737.6
HIC(d)	722.9
Impact Velocity (kph)	23.76
HIC T1 (msec)	3.9
HIC T2 (msec)	11.5

FMVSS 201U IMPACT TEST - 2006 Chevrolet Cobalt C60101 - URSR2B

FMH Headform 0062

Location: URSR2B

Test Date: March 13, 2006

Work File: URSR2B

-----TEST RESULTS-----

Lab Temperature: 23.3 C

HICd: 722.9

Lab Humidity: 48.0 %

HIC (36ms): 737.6

Velocity at Impact: 23.76 KPH

t1: 3.9 msec

t2: 11.5 msec

Free Flight Distance: 214.14 mm

Duration: 7.6 msec

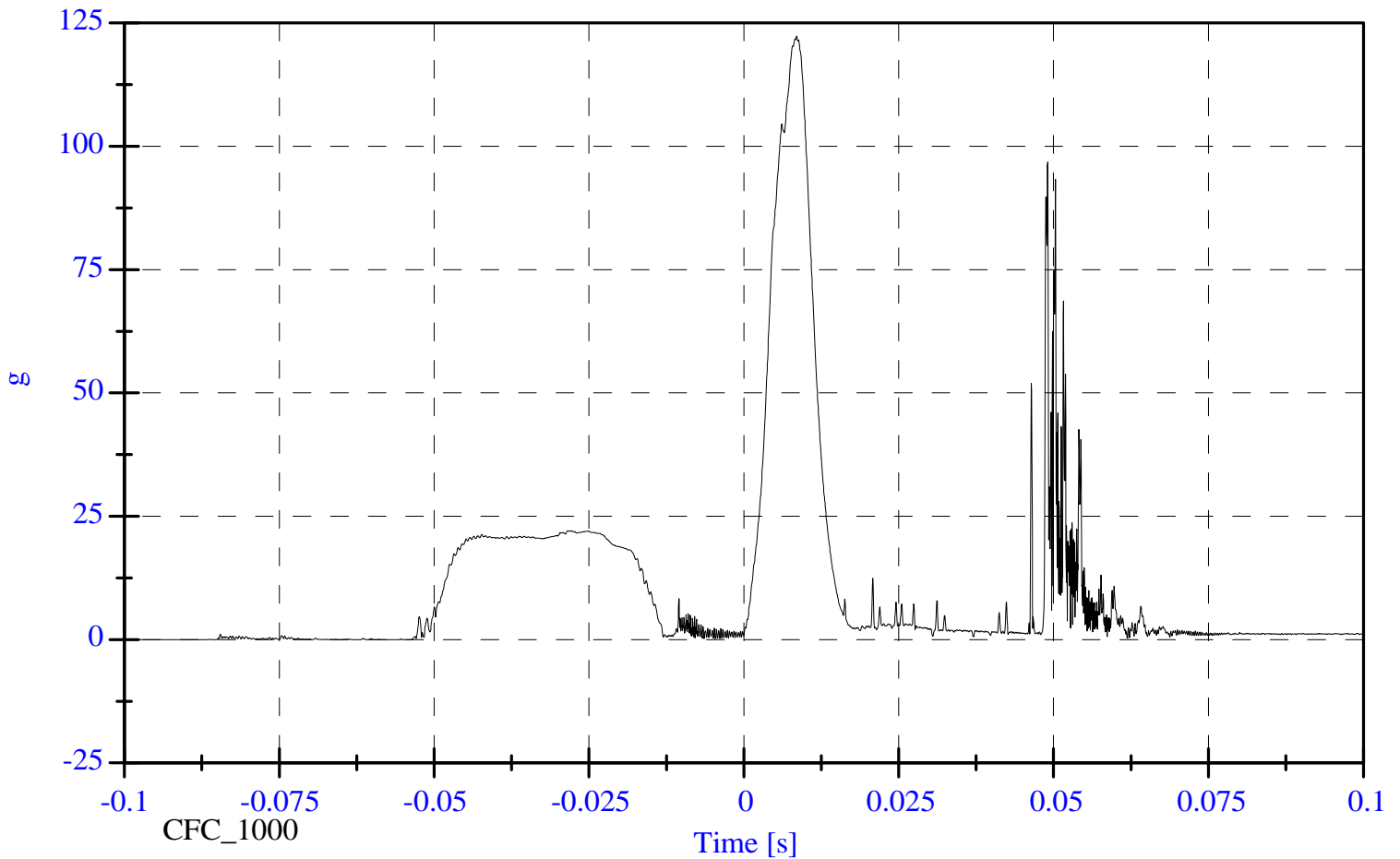
Maximum: 122.4 g

Average Acceleration: 10.2 g

FMVSS 201U IMPACT TEST - 2006 Chevrolet Cobalt
Headform Resultant

Max: 122.4 [g] at 0.008 [s]

Min: -0.0 [g] at -0.100 [s]



FMVSS 201U IMPACT TEST - 2006 Chevrolet Cobalt

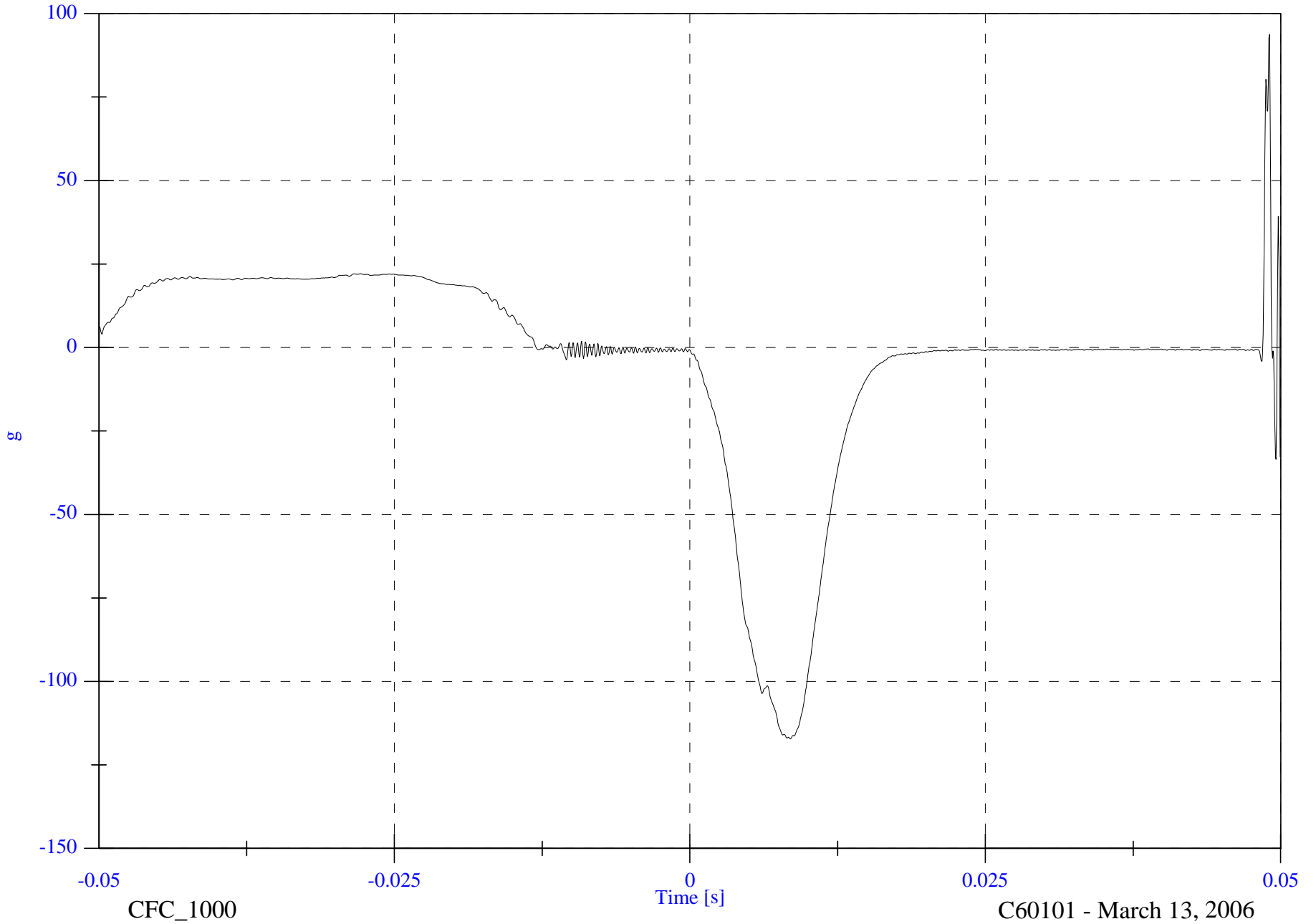
Headform X Acceleration

Max: 93.8 [g] at 0.049 [s]

Min: -117.2 [g] at 0.008 [s]

C60101 PASSENGER SIDE URSR2B IMPACT PLOT #1

8754-FMH-08



CFC_1000

C60101 - March 13, 2006

FMVSS 201U IMPACT TEST - 2006 Chevrolet Cobalt

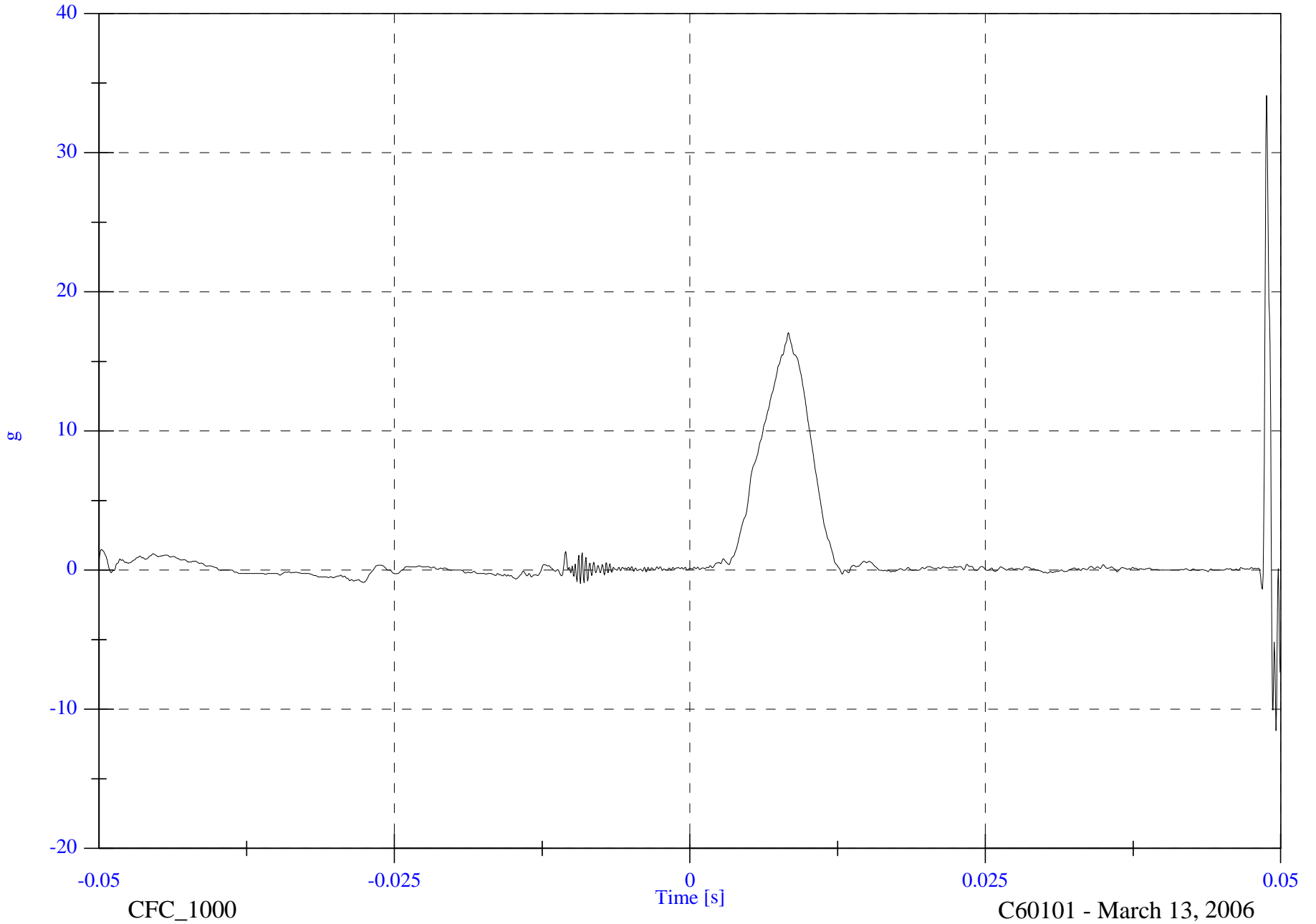
Headform Y Acceleration

Max: 34.1 [g] at 0.049 [s]

Min: -11.5 [g] at 0.050 [s]

C60101 PASSENGER SIDE URSR2B IMPACT PLOT #2

8754-FMH-08



FMVSS 201U IMPACT TEST - 2006 Chevrolet Cobalt

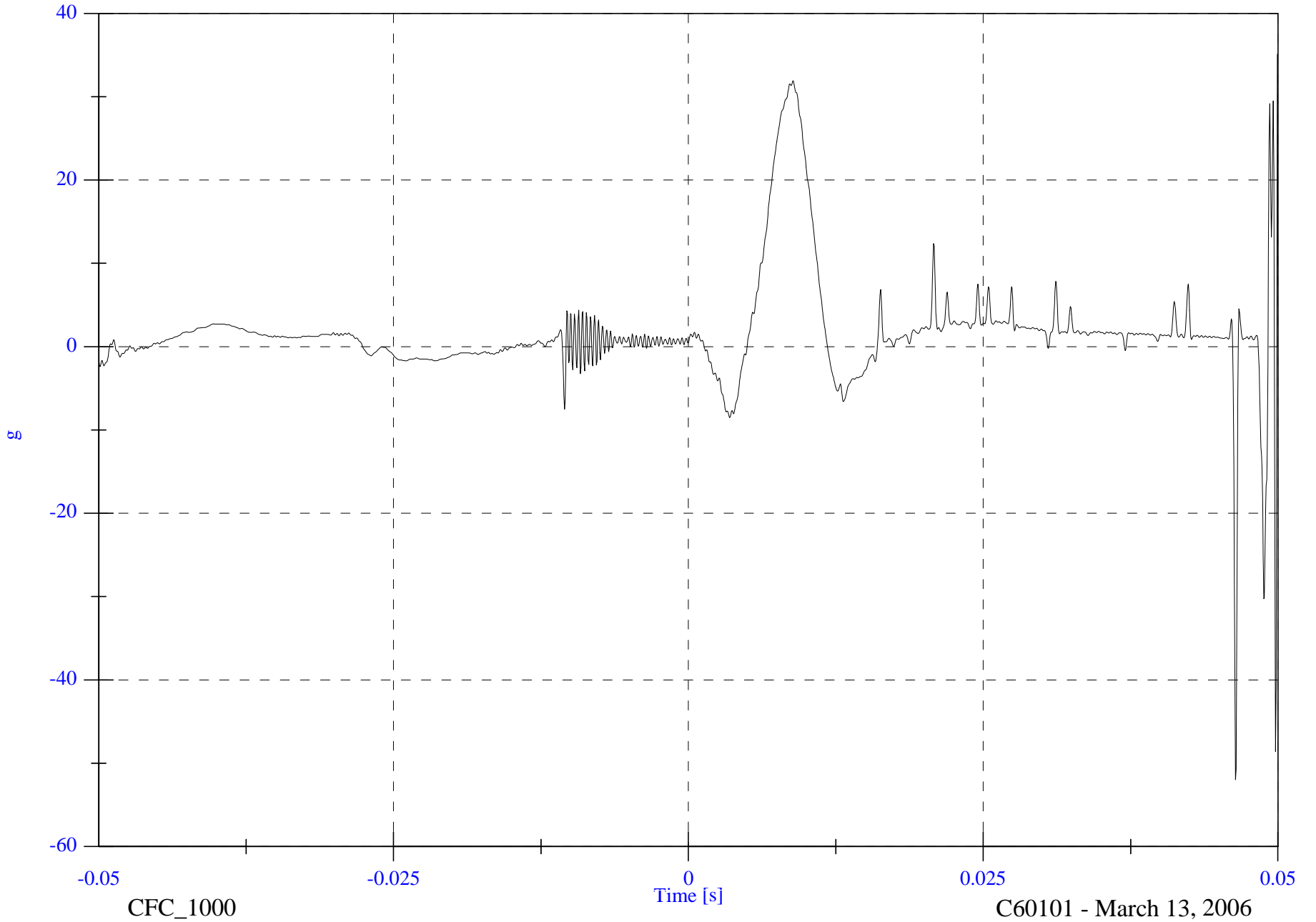
Headform Z Acceleration

Max: 35.1 [g] at 0.050 [s]

Min: -52.0 [g] at 0.046 [s]

C60101 PASSENGER SIDE URSR2B IMPACT PLOT #3

8754-FMH-08



CFC_1000

C60101 - March 13, 2006

FMVSS 201U IMPACT TEST - 2006 Chevrolet Cobalt

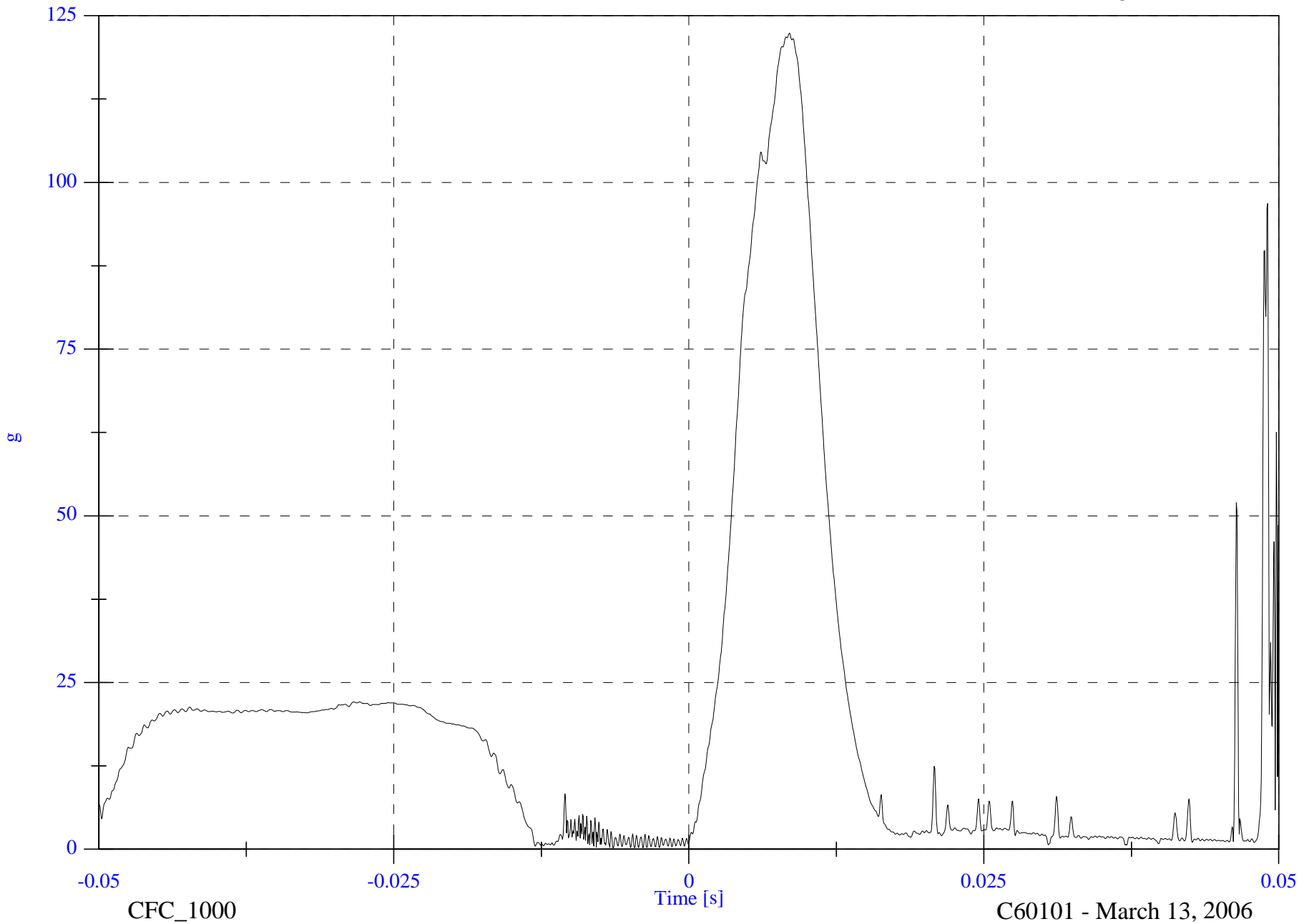
Headform Resultant

Max: 122.4 [g] at 0.008 [s]

Min: 0.2 [g] at -0.006 [s]

C60101 PASSENGER SIDE URSR2B IMPACT PLOT #4

8754-FMH-08



FMVSS 201U IMPACT TEST - 2006 Chevrolet Cobalt

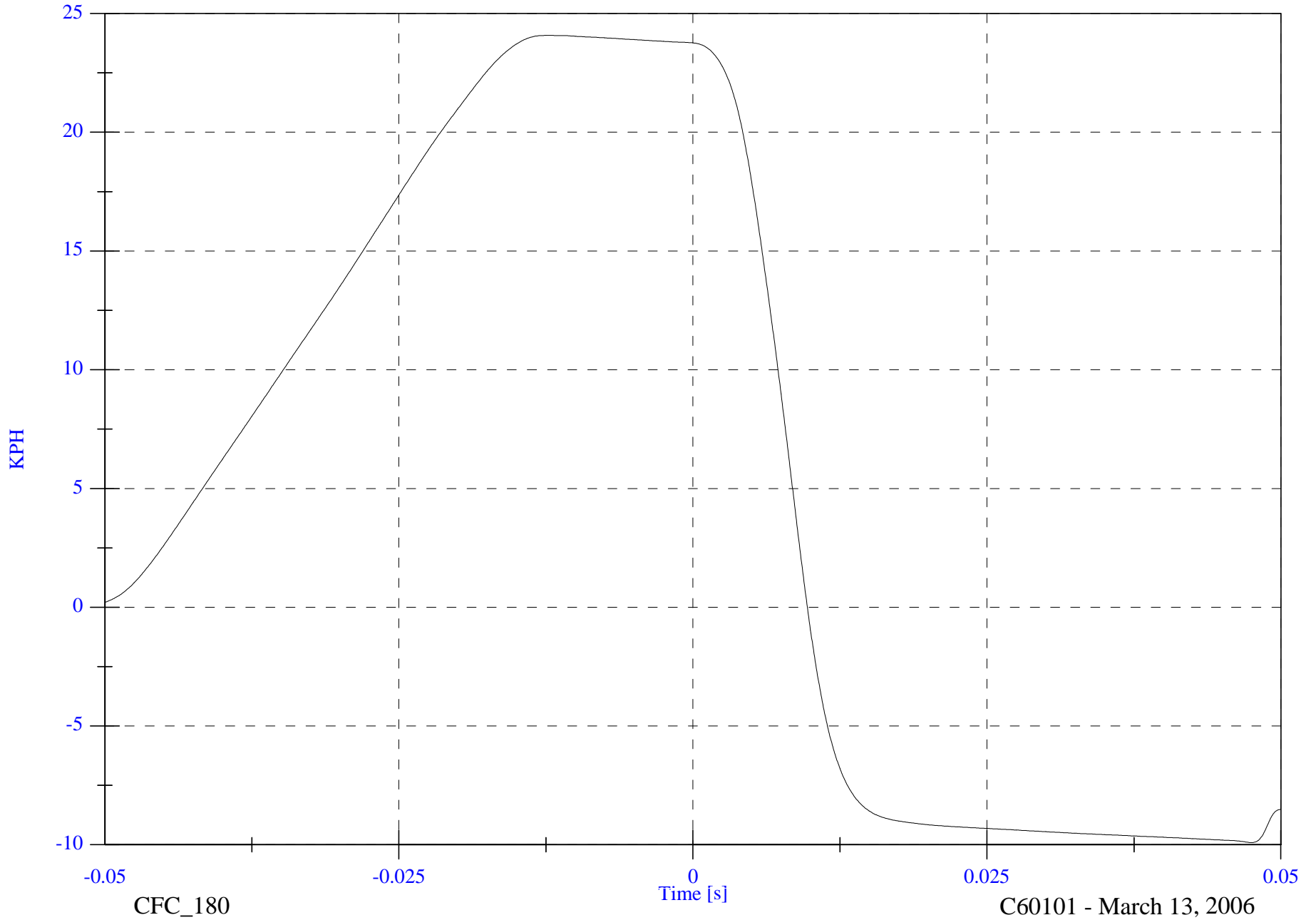
Headform Velocity

Max: 24.1 [KPH] at -0.012 [s]

Min: -9.9 [KPH] at 0.047 [s]

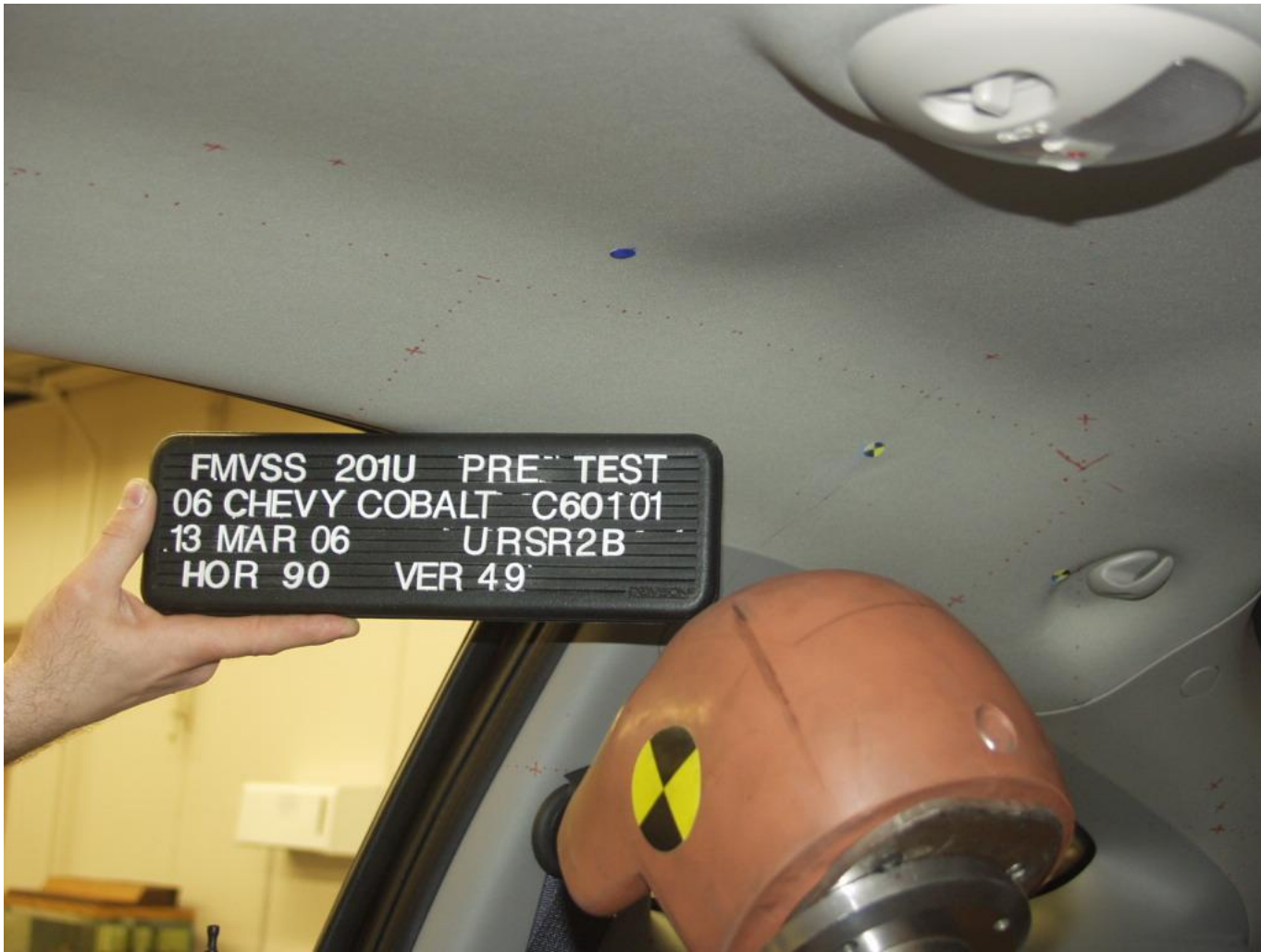
C60101 PASSENGER SIDE URSR2B IMPACT PLOT #5

8754+FMH-08



CFC_180

C60101 - March 13, 2006



PRE-IMPACT URSR2B

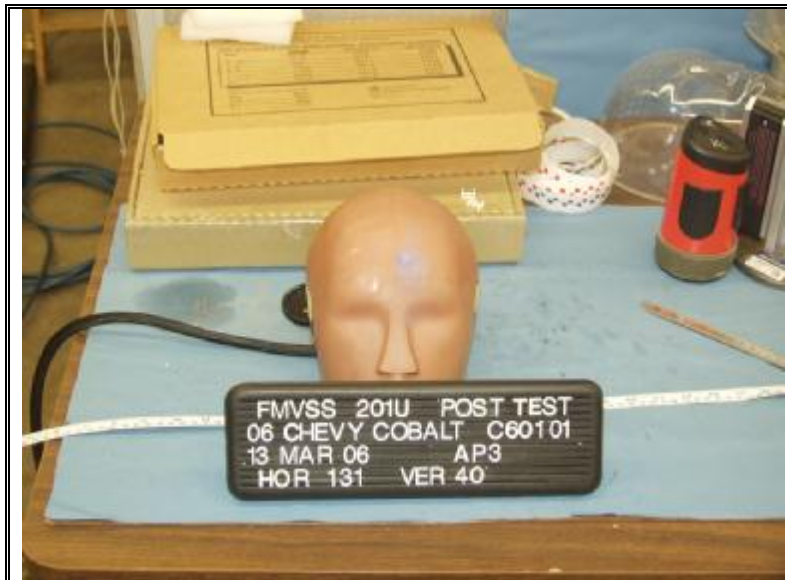


POST-IMPACT URSR2B

VEHICLE YEAR/MAKE/MODEL/STYLE:	2006 Chevrolet Cobalt, 2-door, LS Coupe
VIN:	1G1AK15F867688159
DATE OF MANUFACTURE:	10/05 (SEE CERTIFICATION LABEL)
COLOR:	Black

Test Number:	05
Test Date:	03/13/06
Target Location:	A-PILLAR
Target Code:	AP3
Horizontal Impact Angle:	131°
Vertical Impact Angle:	40°
Ambient Temperature:	23.6 C°
Relative Humidity:	47.2
Time of Impact:	12:00
Headform Number:	0642

Impact Point Description (from lower midpoint on midsagittal line)			
On Centerline	5	<input type="checkbox"/>	mm right <input checked="" type="checkbox"/> mm left
On Centerline	16		mm up



POST-IMPACT AP3 HEADFORM

Free Motion HIC	600.0
HIC(d)	619.0
Impact Velocity (kph)	23.64
HIC T1 (msec)	1.4
HIC T2 (msec)	11.2

FMVSS 201U IMPACT TEST - 2006 Chevrolet Cobalt C60101 - AP3

FMH Headform 0642

Location: AP3

Test Date: March 13, 2006

Work File: AP3

-----TEST RESULTS-----

Lab Temperature: 23.6 C

HICd: 619.0

Lab Humidity: 47.2 %

HIC (36ms): 600.0

Velocity at Impact: 23.64 KPH

t1: 1.4 msec

t2: 11.1 msec

Free Flight Distance: 216.54 mm

Duration: 9.7 msec

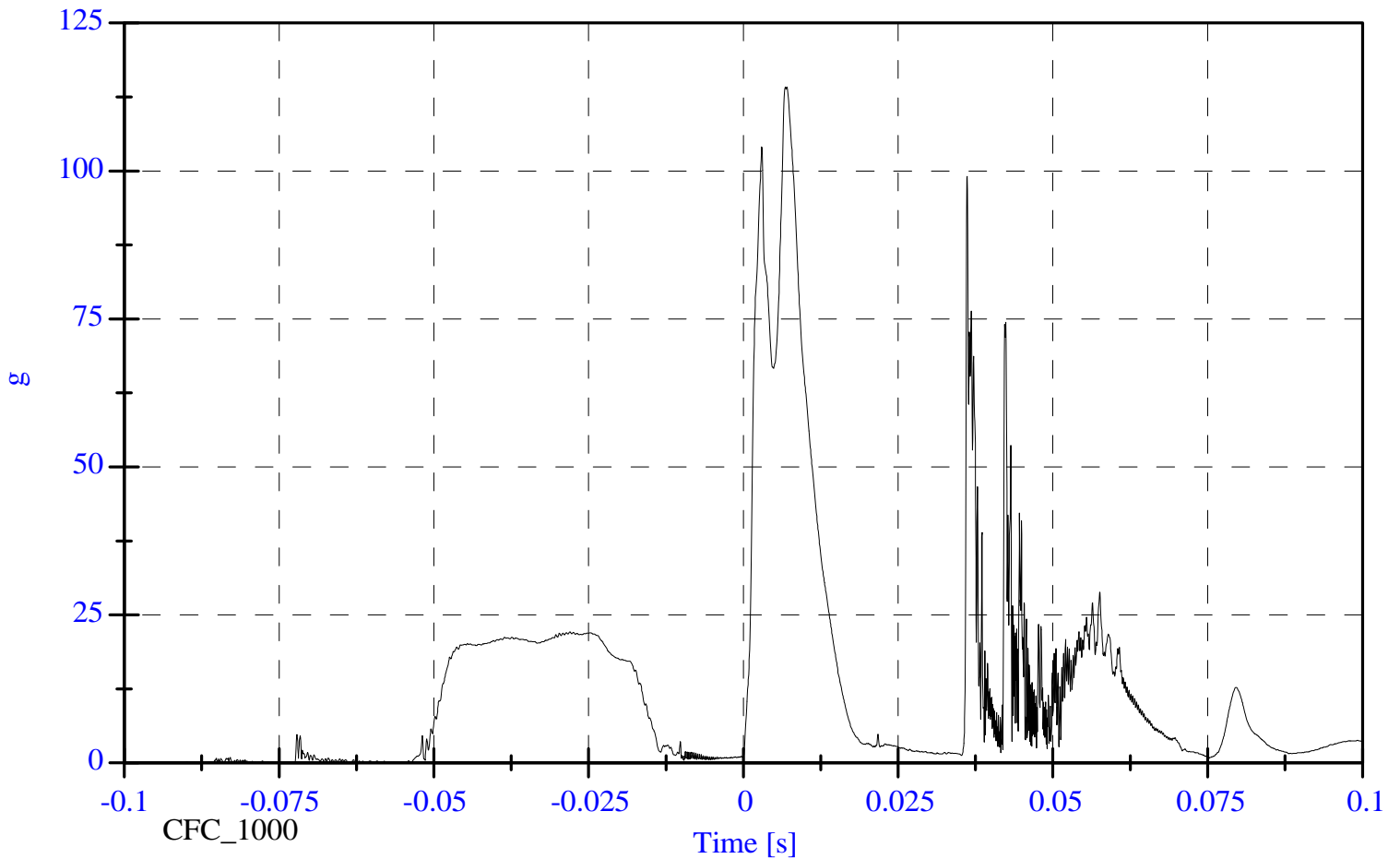
Maximum: 114.2 g

Average Acceleration: 12.2 g

FMVSS 201U IMPACT TEST - 2006 Chevrolet Cobalt
Headform Resultant

Max: 114.2 [g] at 0.007 [s]

Min: 0.0 [g] at -0.096 [s]



FMVSS 201U IMPACT TEST - 2006 Chevrolet Cobalt

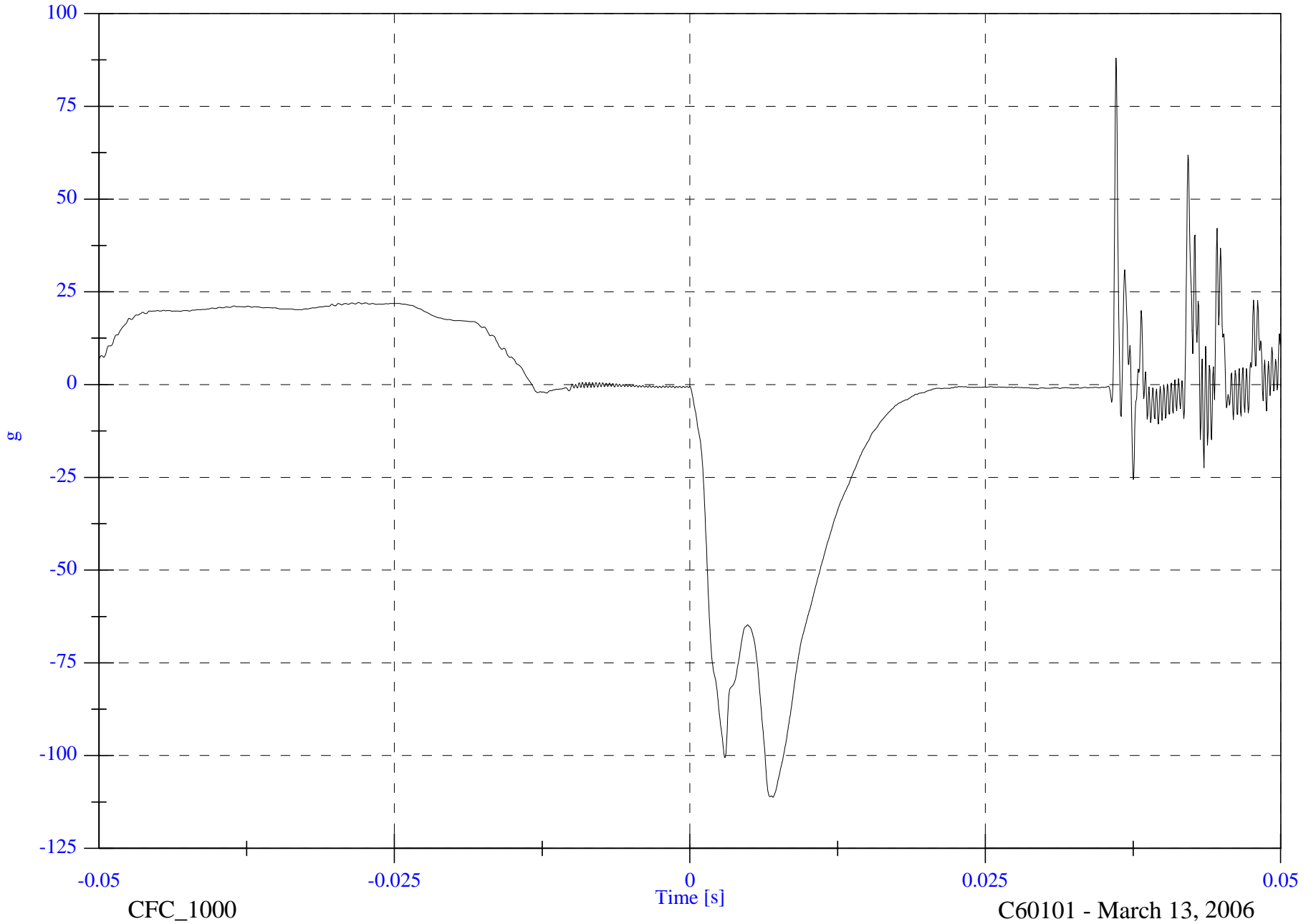
Headform X Acceleration

Max: 88.0 [g] at 0.036 [s]

Min: -111.2 [g] at 0.007 [s]

C60101 PASSENGER SIDE AP3 IMPACT PLOT #1

8754+FMH-08



CFC_1000

C60101 - March 13, 2006

FMVSS 201U IMPACT TEST - 2006 Chevrolet Cobalt

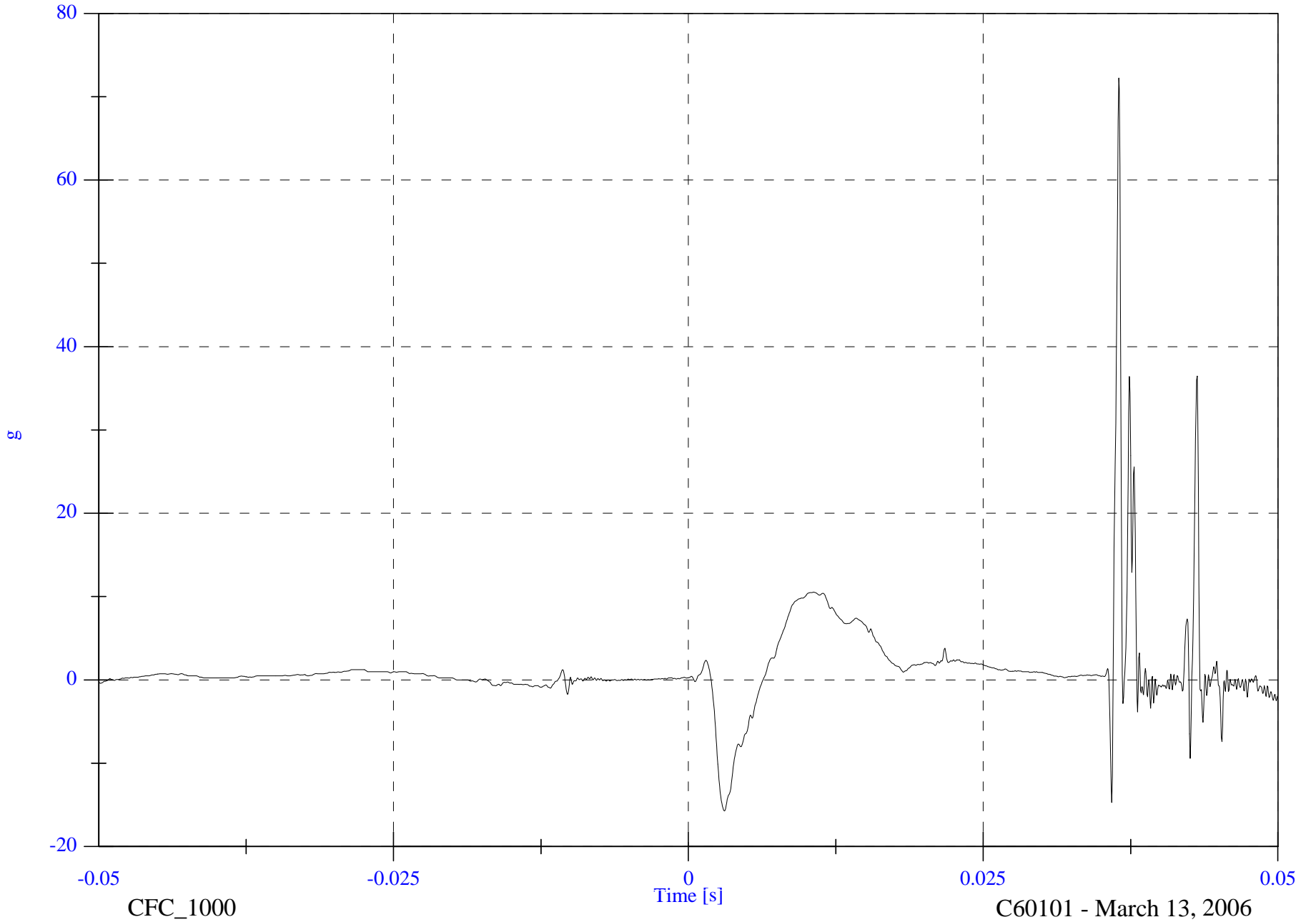
Headform Y Acceleration

Max: 72.3 [g] at 0.037 [s]

Min: -15.7 [g] at 0.003 [s]

C60101 PASSENGER SIDE AP3 IMPACT PLOT #2

8754+FMH-08



CFC_1000

C60101 - March 13, 2006

FMVSS 201U IMPACT TEST - 2006 Chevrolet Cobalt

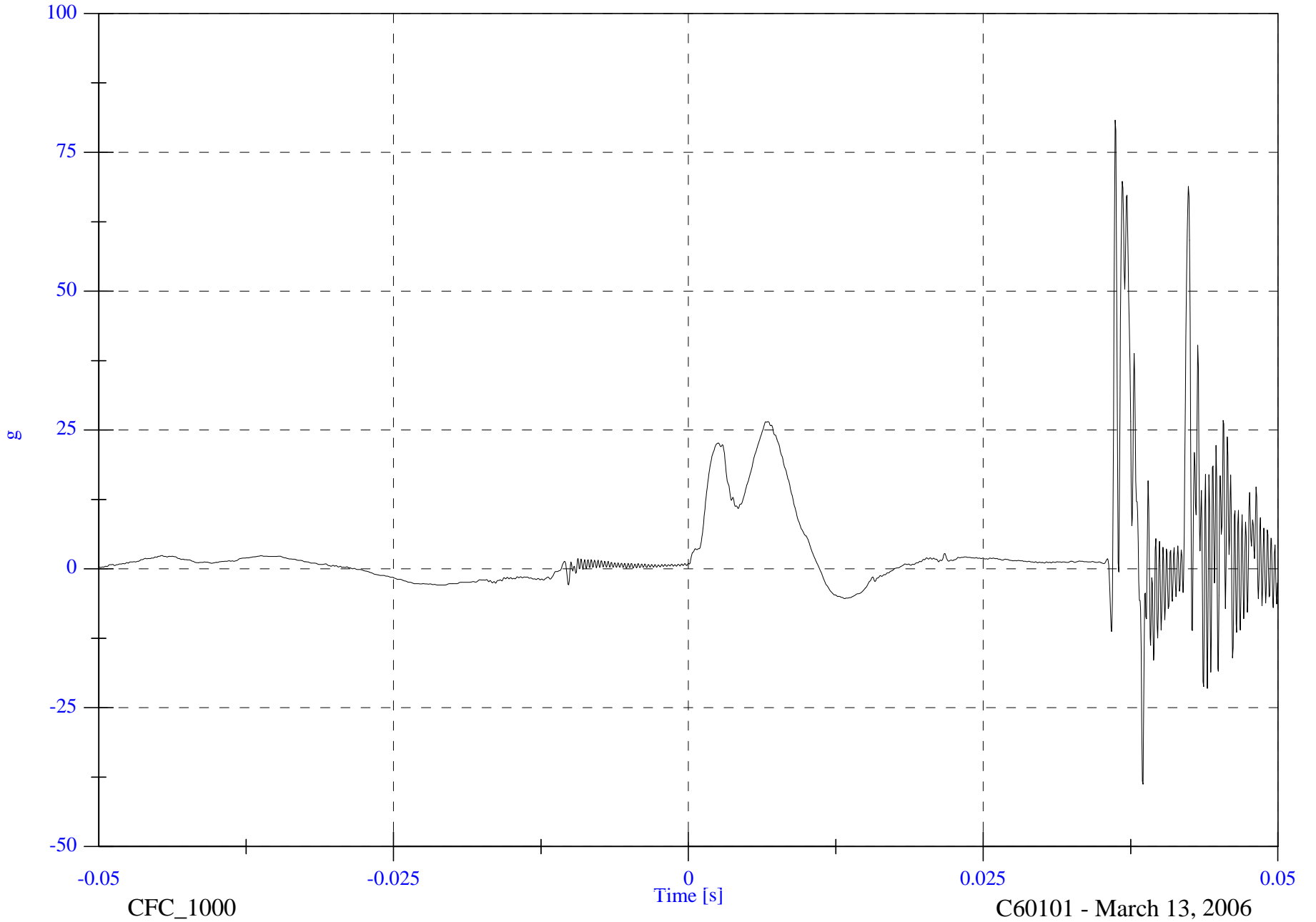
Headform Z Acceleration

Max: 80.8 [g] at 0.036 [s]

Min: -38.8 [g] at 0.039 [s]

C60101 PASSENGER SIDE AP3 IMPACT PLOT #3

8754+FMH-08



CFC_1000

C60101 - March 13, 2006

FMVSS 201U IMPACT TEST - 2006 Chevrolet Cobalt

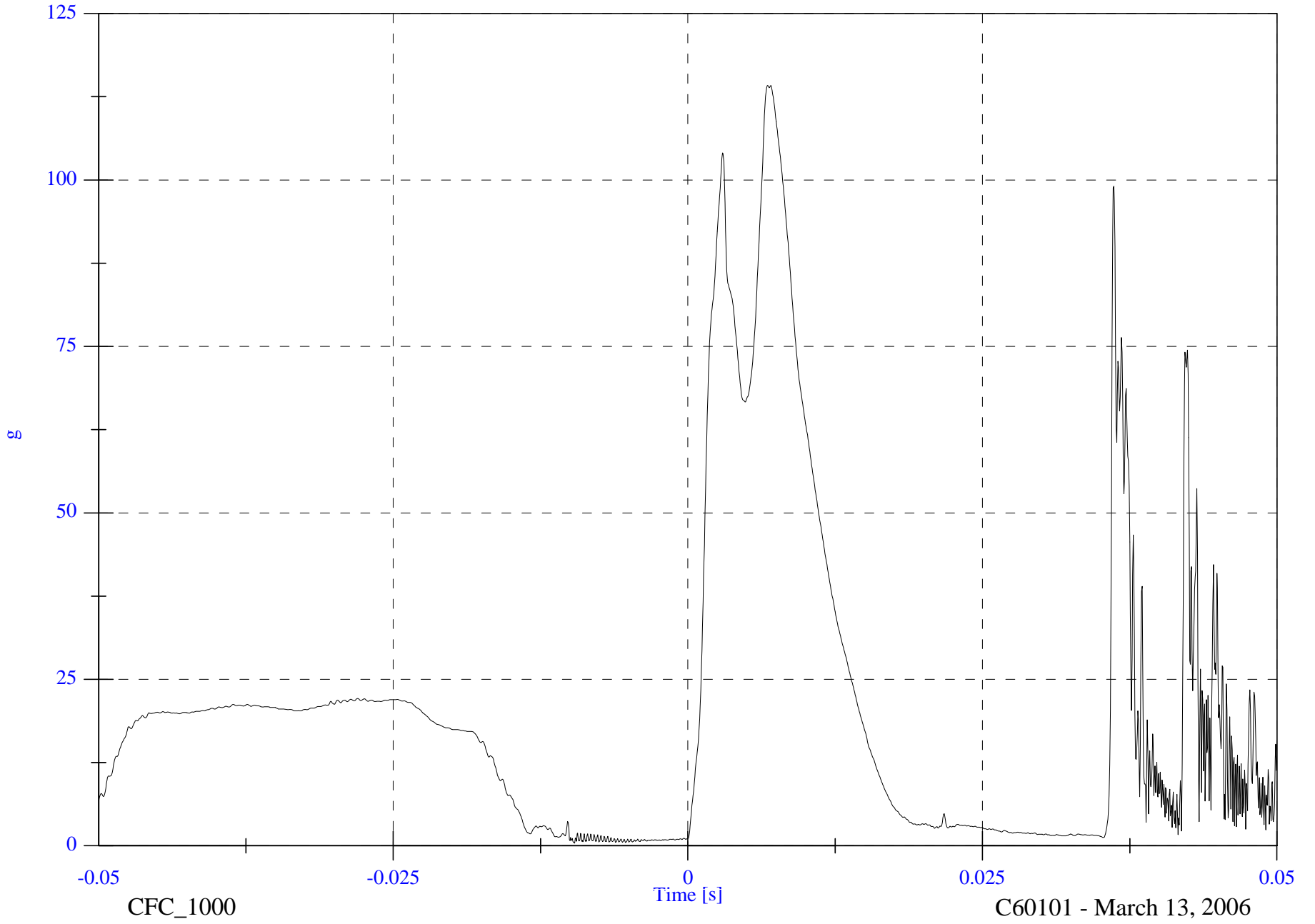
Headform Resultant

Max: 114.2 [g] at 0.007 [s]

Min: 0.4 [g] at -0.010 [s]

C60101 PASSENGER SIDE AP3 IMPACT PLOT #4

8754-FMH-08



FMVSS 201U IMPACT TEST - 2006 Chevrolet Cobalt

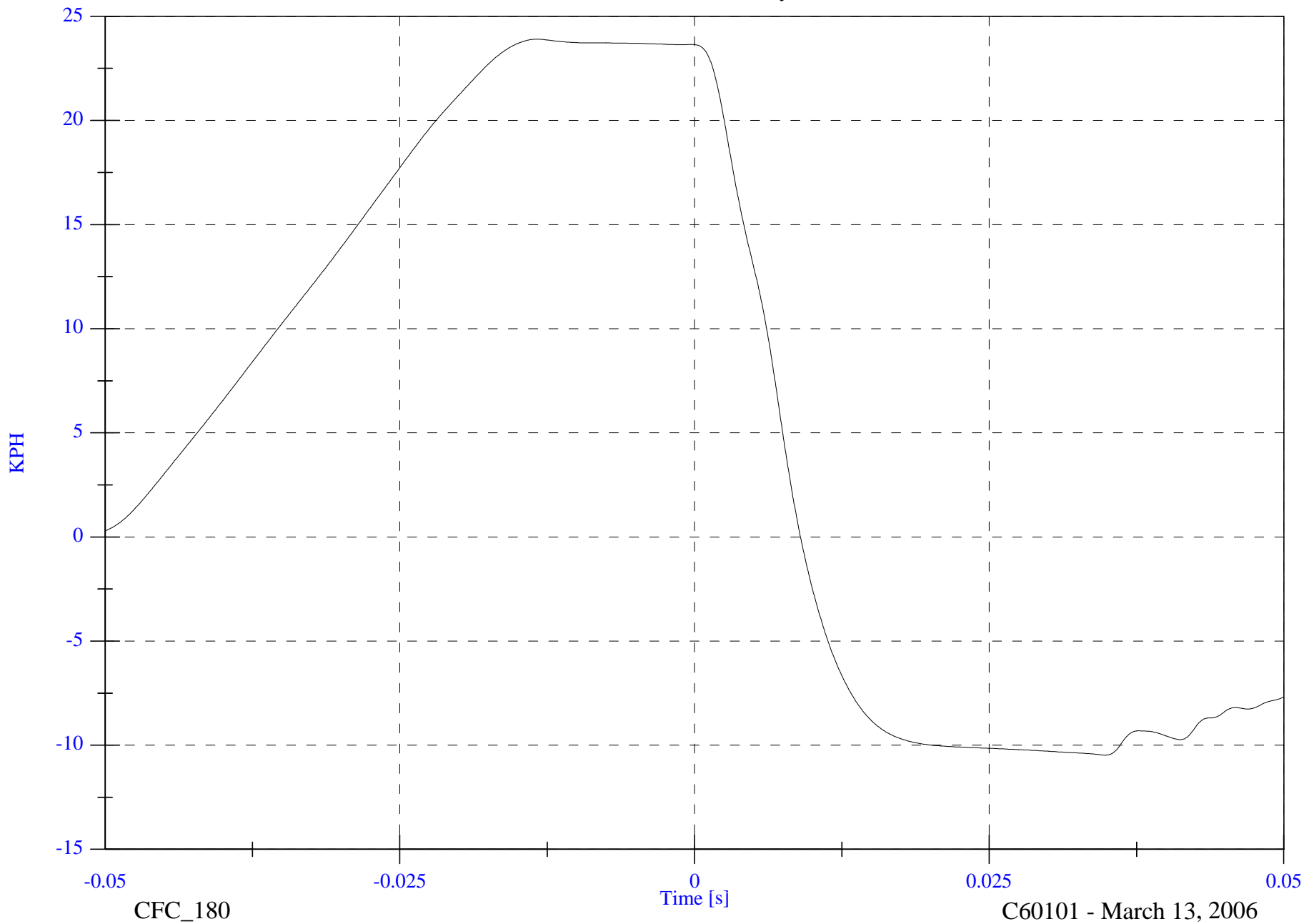
Headform Velocity

Max: 23.9 [KPH] at -0.013 [s]

Min: -10.5 [KPH] at 0.035 [s]

C60101 PASSENGER SIDE AP3 IMPACT PLOT #5

8754+FMH-08



CFC_180

C60101 - March 13, 2006

Photo Not Available

PRE-IMPACT AP3

8754-FMH-08



VEHICLE YEAR/MAKE/MODEL/STYLE:	2006 Chevrolet Cobalt, 2-door, LS Coupe
VIN:	1G1AK15F867688159
DATE OF MANUFACTURE:	10/05 (SEE CERTIFICATION LABEL)
COLOR:	Black

Test Number:	06
Test Date:	03/13/06
Target Location:	A-PILLAR
Target Code:	AP1
Horizontal Impact Angle:	118°
Vertical Impact Angle:	47°
Ambient Temperature:	24.3 C°
Relative Humidity:	47.2
Time of Impact:	13:45
Headform Number:	0355

Impact Point Description (from lower midpoint on midsagittal line)					
On Centerline	3	x	mm right		mm left
On Centerline	24				mm up



POST-IMPACT AP1 HEADFORM

Free Motion HIC	1162.0
HIC(d)	1043.1
Impact Velocity (kph)	23.49
HIC T1 (msec)	5.6
HIC T2 (msec)	9.3

FMVSS 201U IMPACT TEST - 2006 Chevrolet Cobalt C60101 - AP1

FMH Headform 0355

Location: AP1

Test Date: March 13, 2006

Work File: AP1

-----TEST RESULTS-----

Lab Temperature: 24.3 C

HICd: 1043.1

Lab Humidity: 47.2 %

HIC (36ms): 1162.0

Velocity at Impact: 23.49 KPH

t1: 5.6 msec

t2: 9.3 msec

Free Flight Distance: 226.03 mm

Duration: 3.7 msec

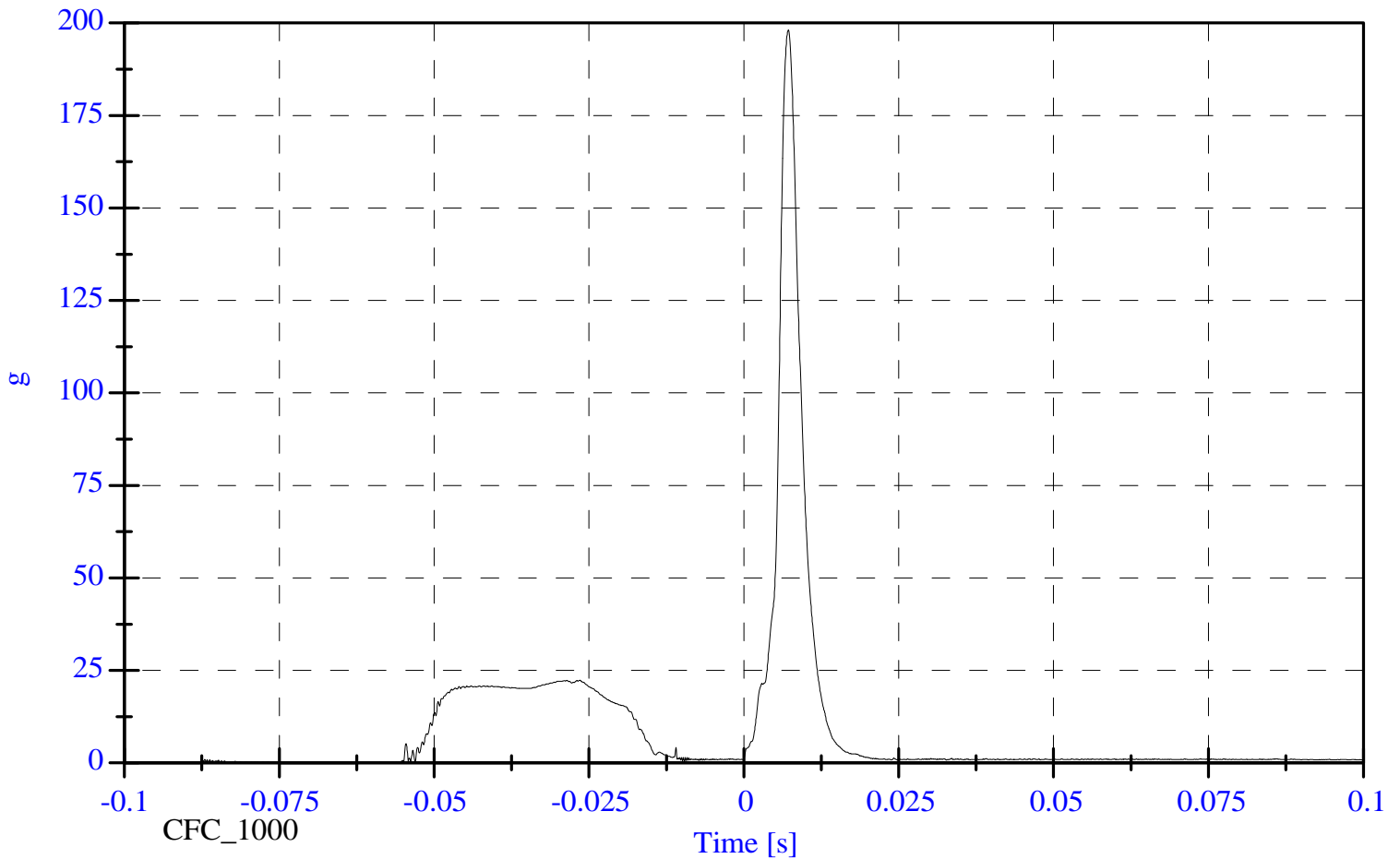
Maximum: 198.2 g

Average Acceleration: 8.5 g

FMVSS 201U IMPACT TEST - 2006 Chevrolet Cobalt
Headform Resultant

Max: 198.2 [g] at 0.007 [s]

Min: 0.0 [g] at -0.076 [s]



FMVSS 201U IMPACT TEST - 2006 Chevrolet Cobalt

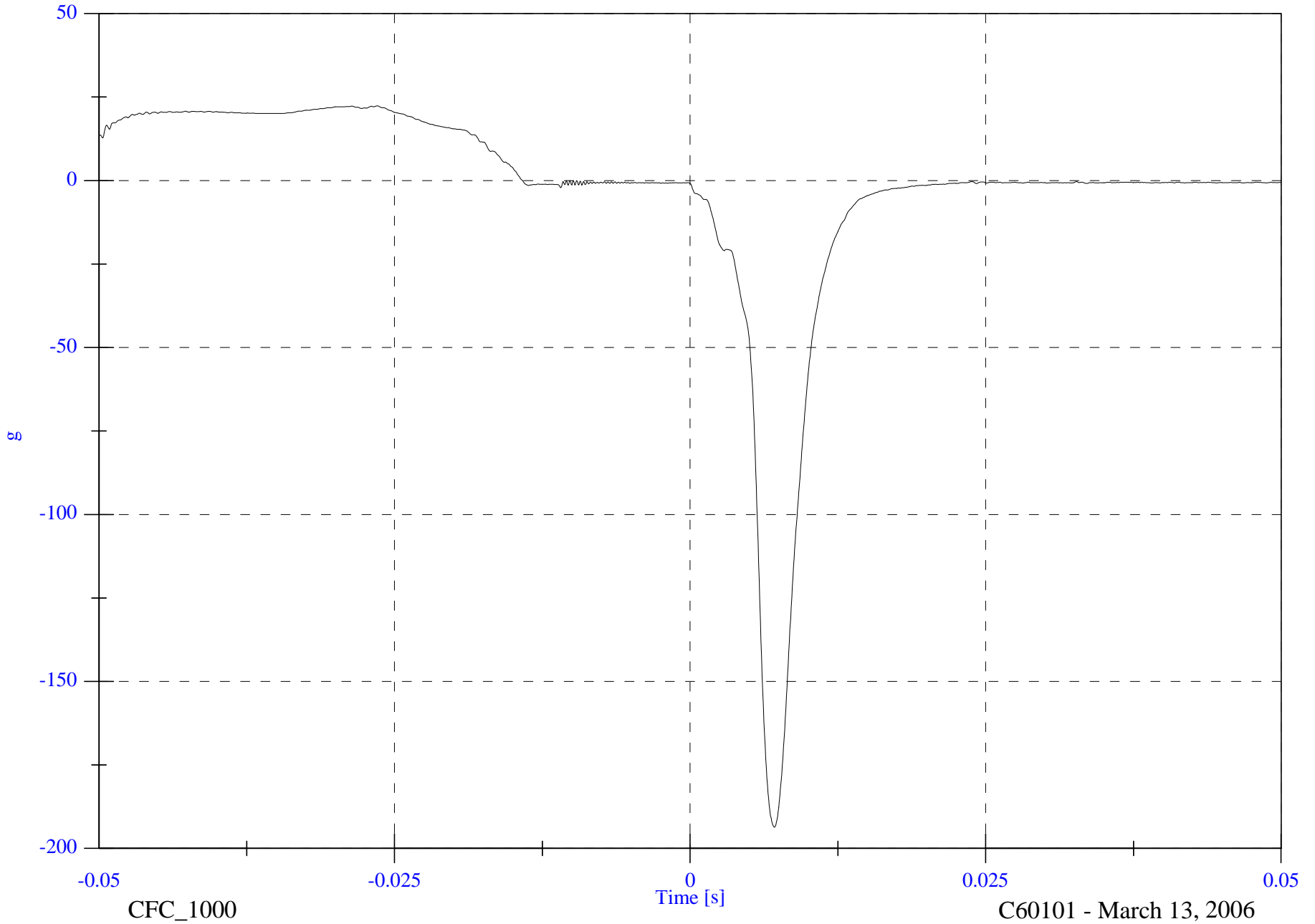
Headform X Acceleration

Max: 22.4 [g] at -0.026 [s]

Min: -193.7 [g] at 0.007 [s]

C60101 PASSENGER SIDE AP1 IMPACT PLOT #1

8754+FMH-08



CFC_1000

Time [s]

C60101 - March 13, 2006

FMVSS 201U IMPACT TEST - 2006 Chevrolet Cobalt

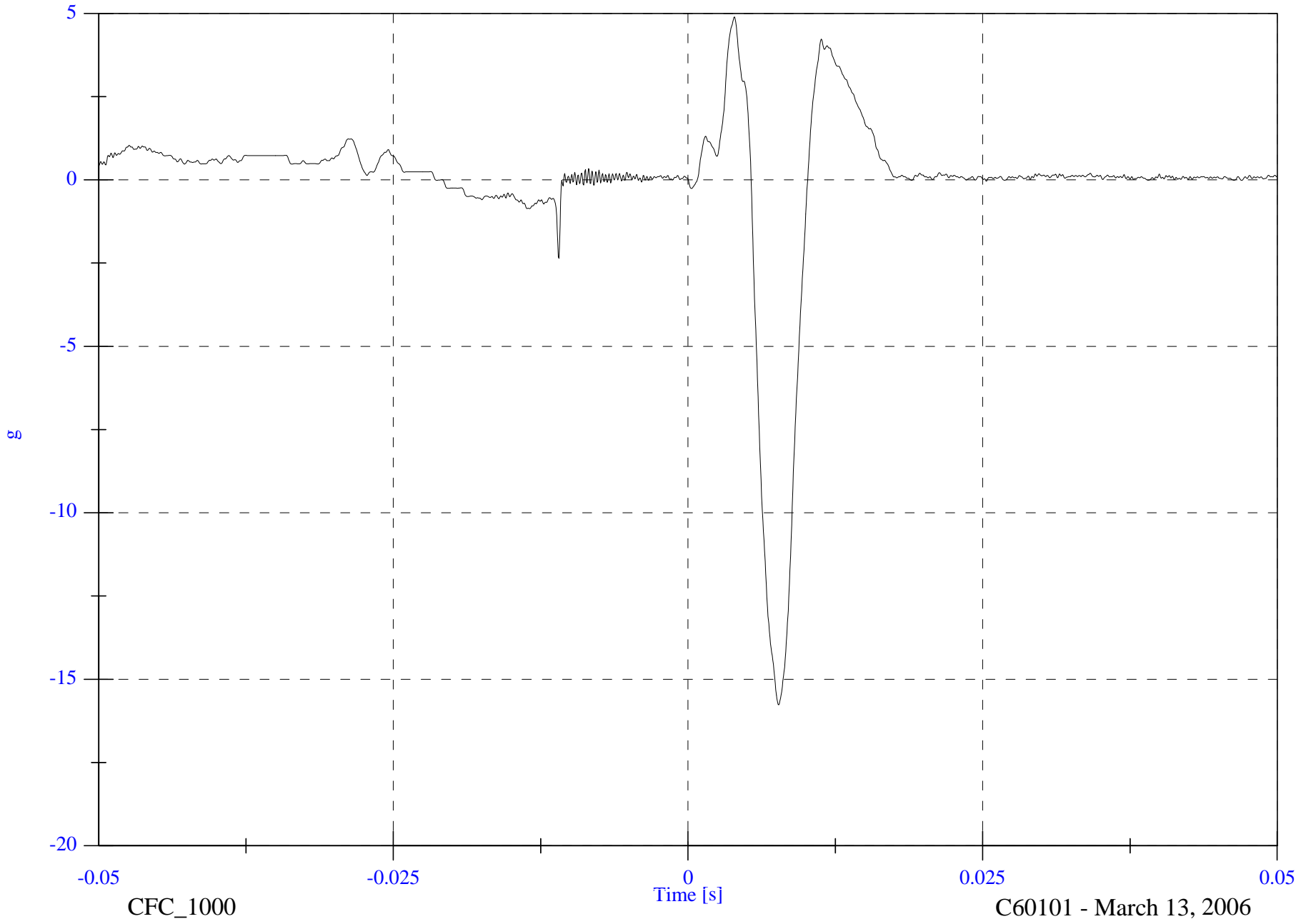
Headform Y Acceleration

Max: 4.9 [g] at 0.004 [s]

Min: -15.8 [g] at 0.008 [s]

C60101 PASSENGER SIDE AP1 IMPACT PLOT #2

8754+FMH-08



CFC_1000

C60101 - March 13, 2006

FMVSS 201U IMPACT TEST - 2006 Chevrolet Cobalt

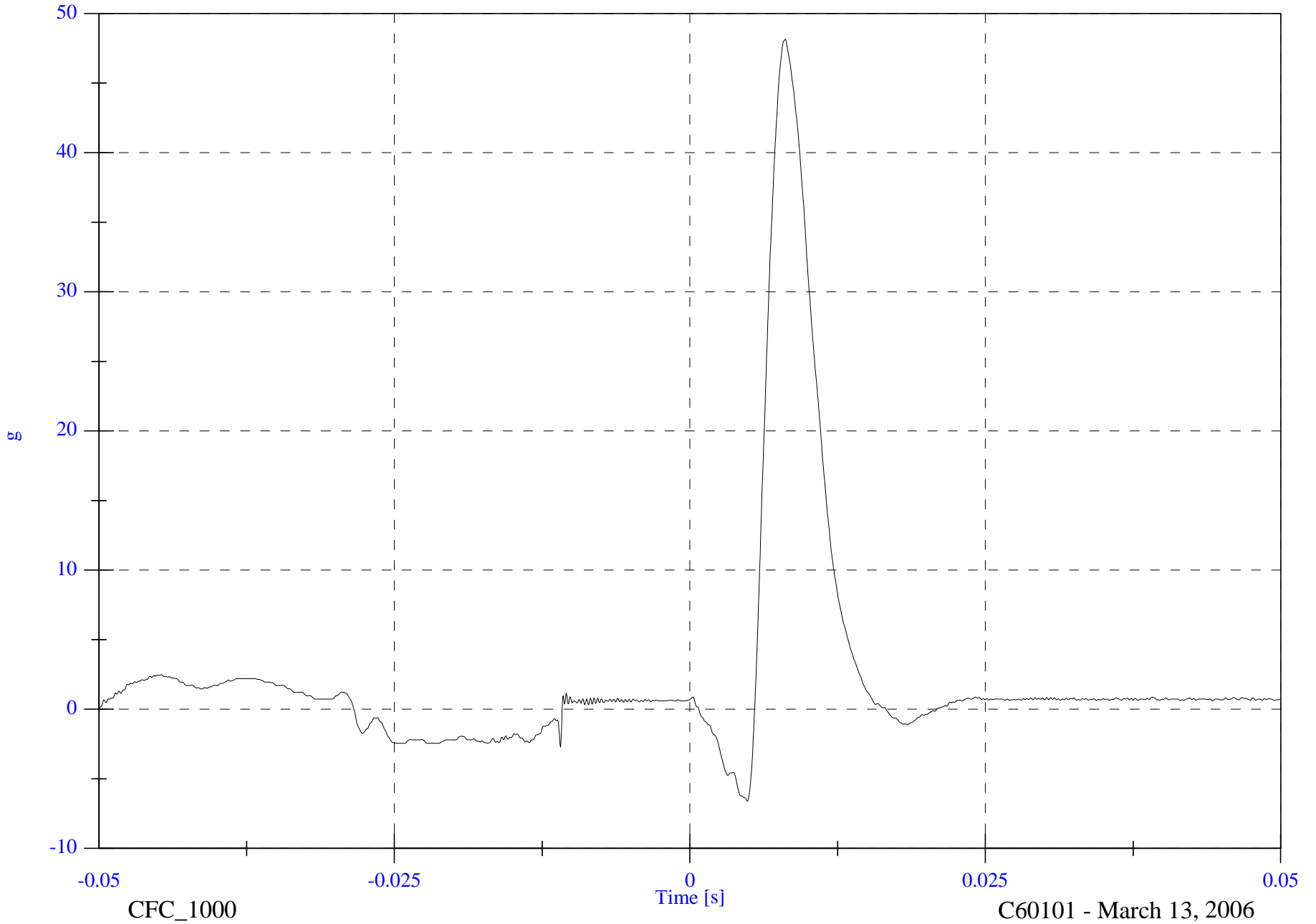
Headform Z Acceleration

Max: 48.1 [g] at 0.008 [s]

Min: -6.6 [g] at 0.005 [s]

C60101 PASSENGER SIDE AP1 IMPACT PLOT #3

8754+FMH-08



CFC_1000

C60101 - March 13, 2006

FMVSS 201U IMPACT TEST - 2006 Chevrolet Cobalt

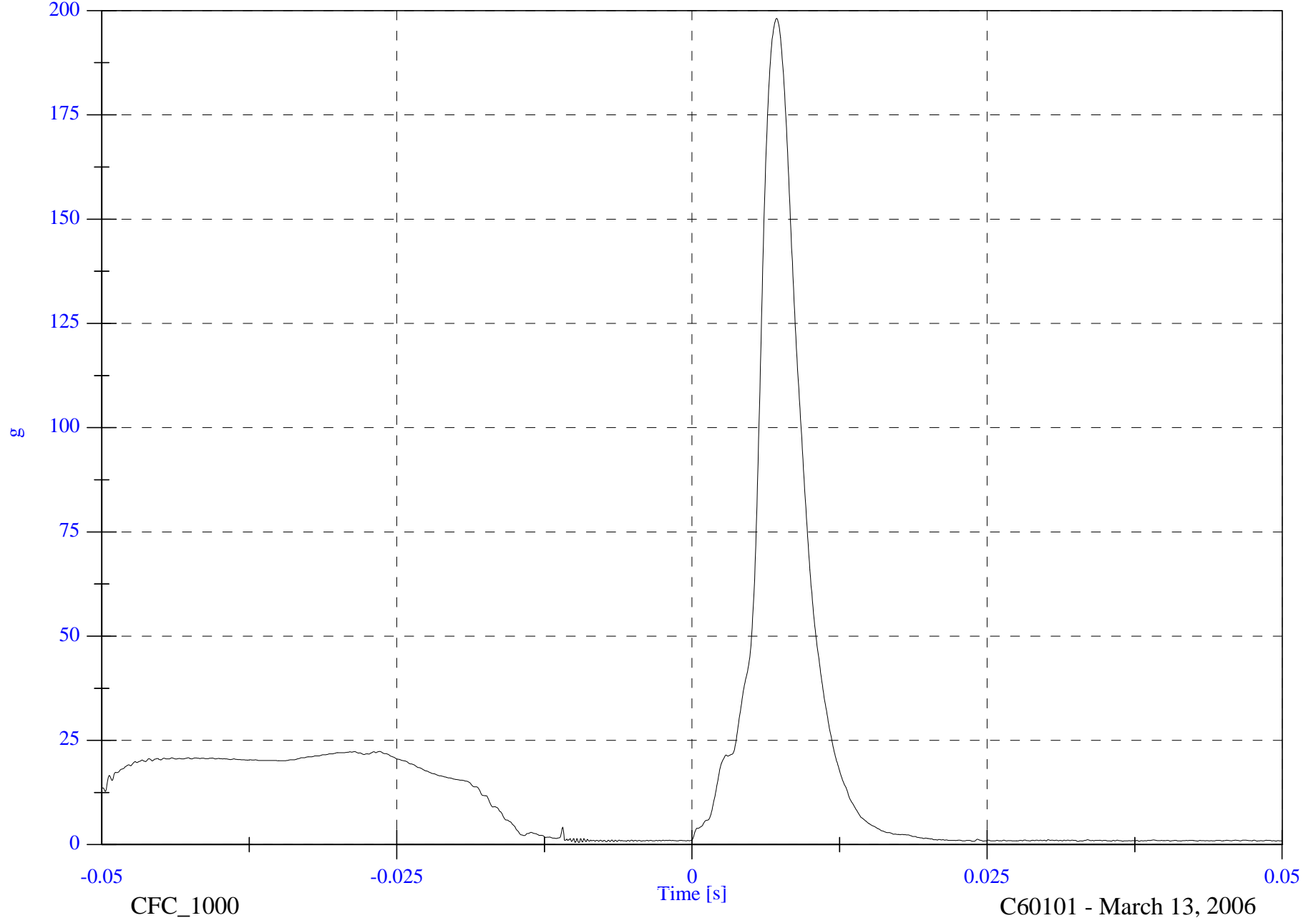
Headform Resultant

Max: 198.2 [g] at 0.007 [s]

Min: 0.5 [g] at -0.010 [s]

C60101 PASSENGER SIDE AP1 IMPACT PLOT #4

8754+FMH-08



FMVSS 201U IMPACT TEST - 2006 Chevrolet Cobalt

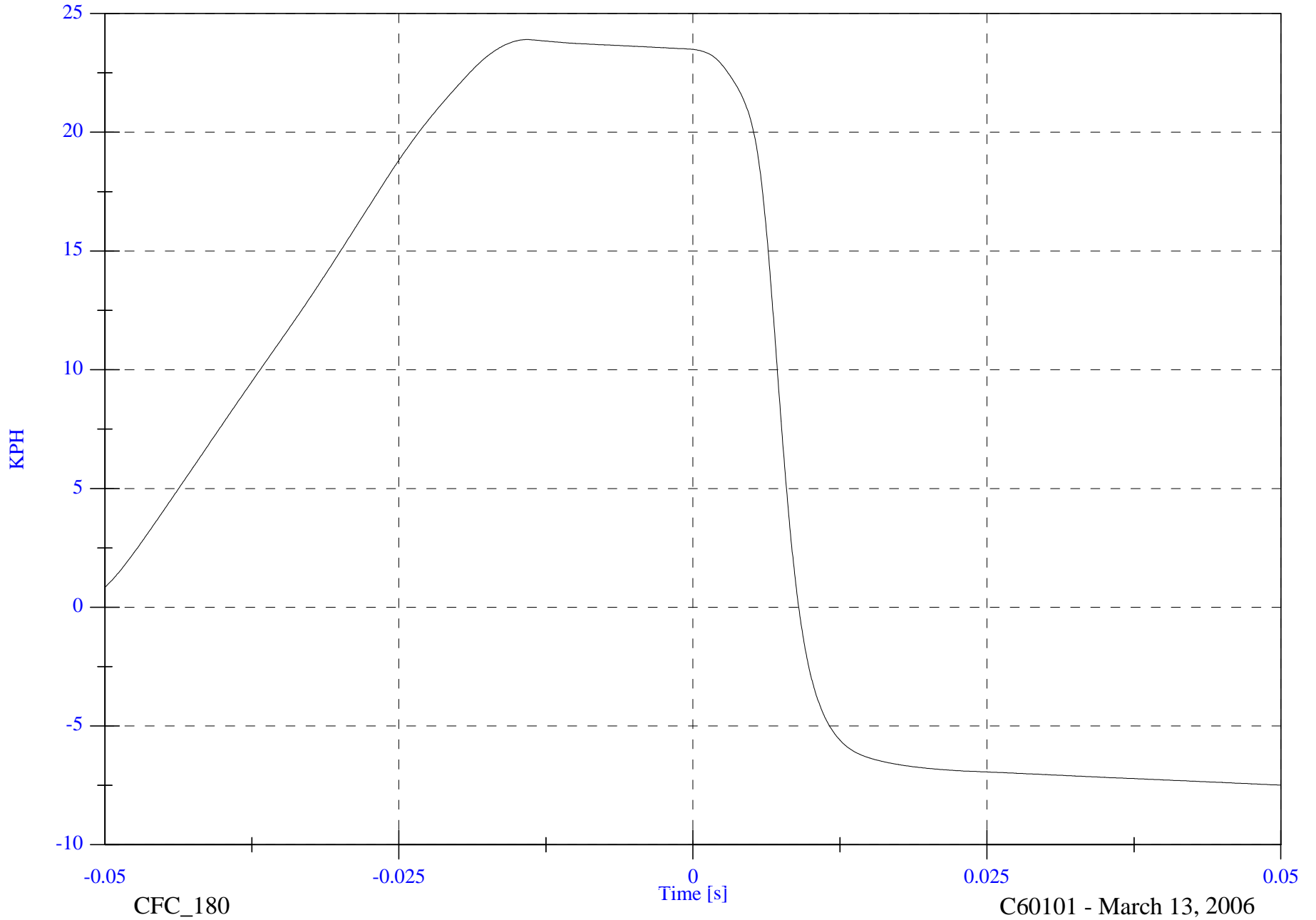
Headform Velocity

Max: 23.9 [KPH] at -0.014 [s]

Min: -7.5 [KPH] at 0.050 [s]

C60101 PASSENGER SIDE AP1 IMPACT PLOT #5

8754+FMH-08



CFC_180

C60101 - March 13, 2006



PRE-IMPACT AP1

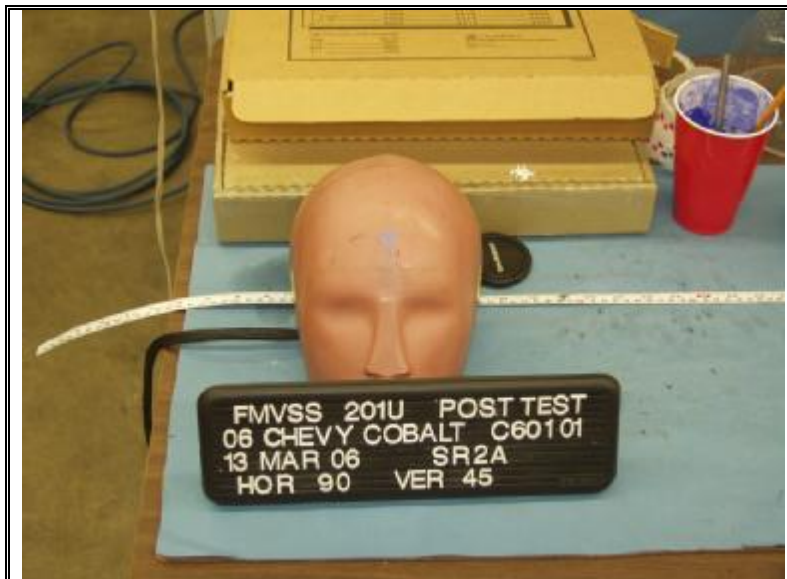


POST-IMPACT AP1

VEHICLE YEAR/MAKE/MODEL/STYLE:	2006 Chevrolet Cobalt, 2-door, LS Coupe
VIN:	1G1AK15F867688159
DATE OF MANUFACTURE:	10/05 (SEE CERTIFICATION LABEL)
COLOR:	Black

Test Number:	07
Test Date:	03/13/06
Target Location:	SIDE RAIL
Target Code:	SR2A
Horizontal Impact Angle:	90°
Vertical Impact Angle:	45°
Ambient Temperature:	23.6 C°
Relative Humidity:	49.9
Time of Impact:	15:30
Headform Number:	0805

Impact Point Description (from lower midpoint on midsagittal line)			
On Centerline	0	mm right	mm left
On Centerline	22	mm up	



POST-IMPACT SR2A HEADFORM

Free Motion HIC	546.5
HIC(d)	578.7
Impact Velocity (kph)	23.41
HIC T1 (msec)	3.8
HIC T2 (msec)	11.9

FMVSS 201U IMPACT TEST - 2006 Chevrolet Cobalt C60101 - SR2A

FMH Headform 805

Location: SR2A

Test Date: March 13, 2006

Work File: SR2A

-----TEST RESULTS-----

Lab Temperature: 23.6 C

HICd: 578.7

Lab Humidity: 49.9 %

HIC (36ms): 546.5

Velocity at Impact: 23.41 KPH

t1: 3.8 msec

t2: 11.9 msec

Free Flight Distance: 220.39 mm

Duration: 8.1 msec

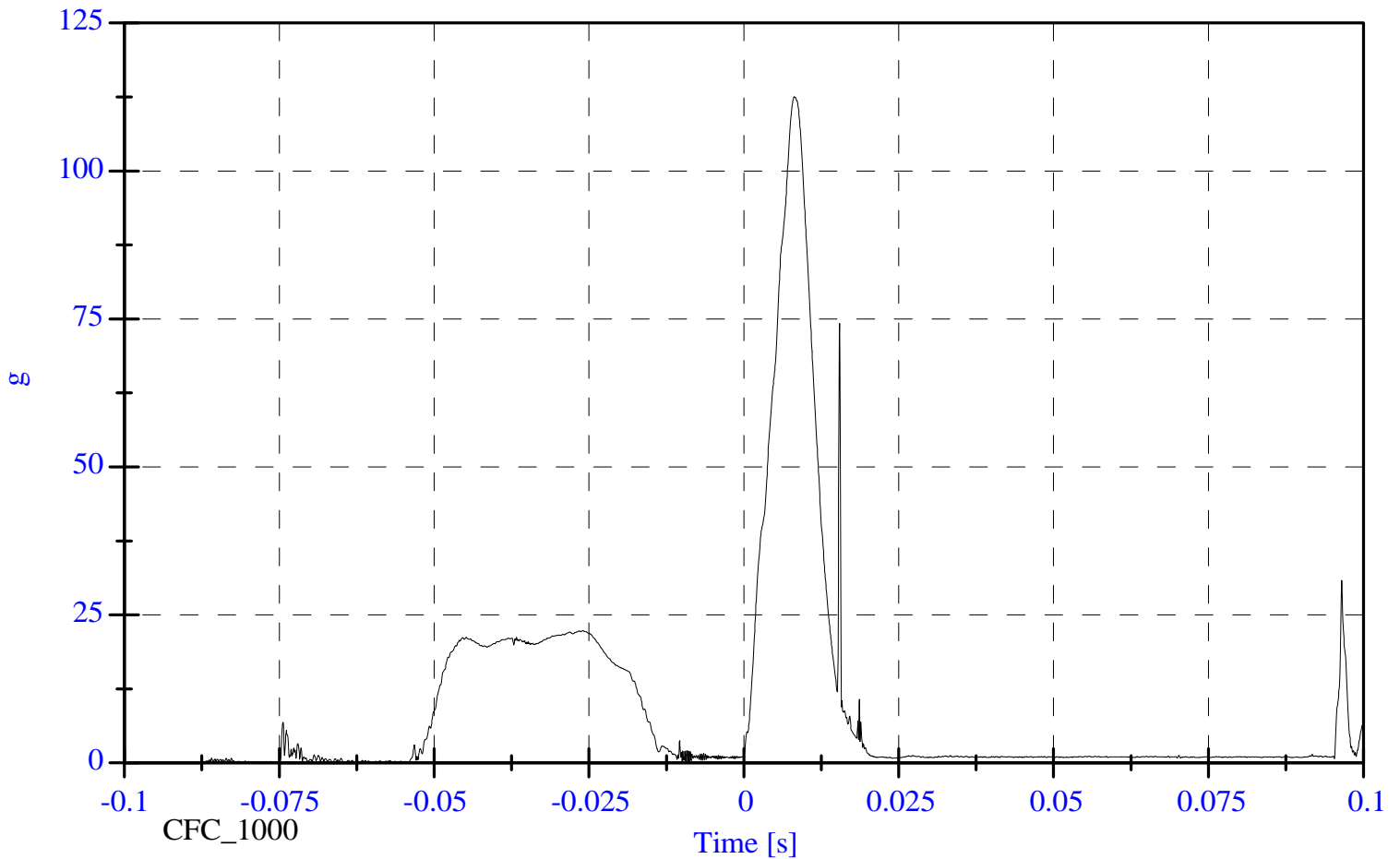
Maximum: 112.5 g

Average Acceleration: 8.8 g

FMVSS 201U IMPACT TEST - 2006 Chevrolet Cobalt
Headform Resultant

Max: 112.5 [g] at 0.008 [s]

Min: 0.0 [g] at -0.096 [s]

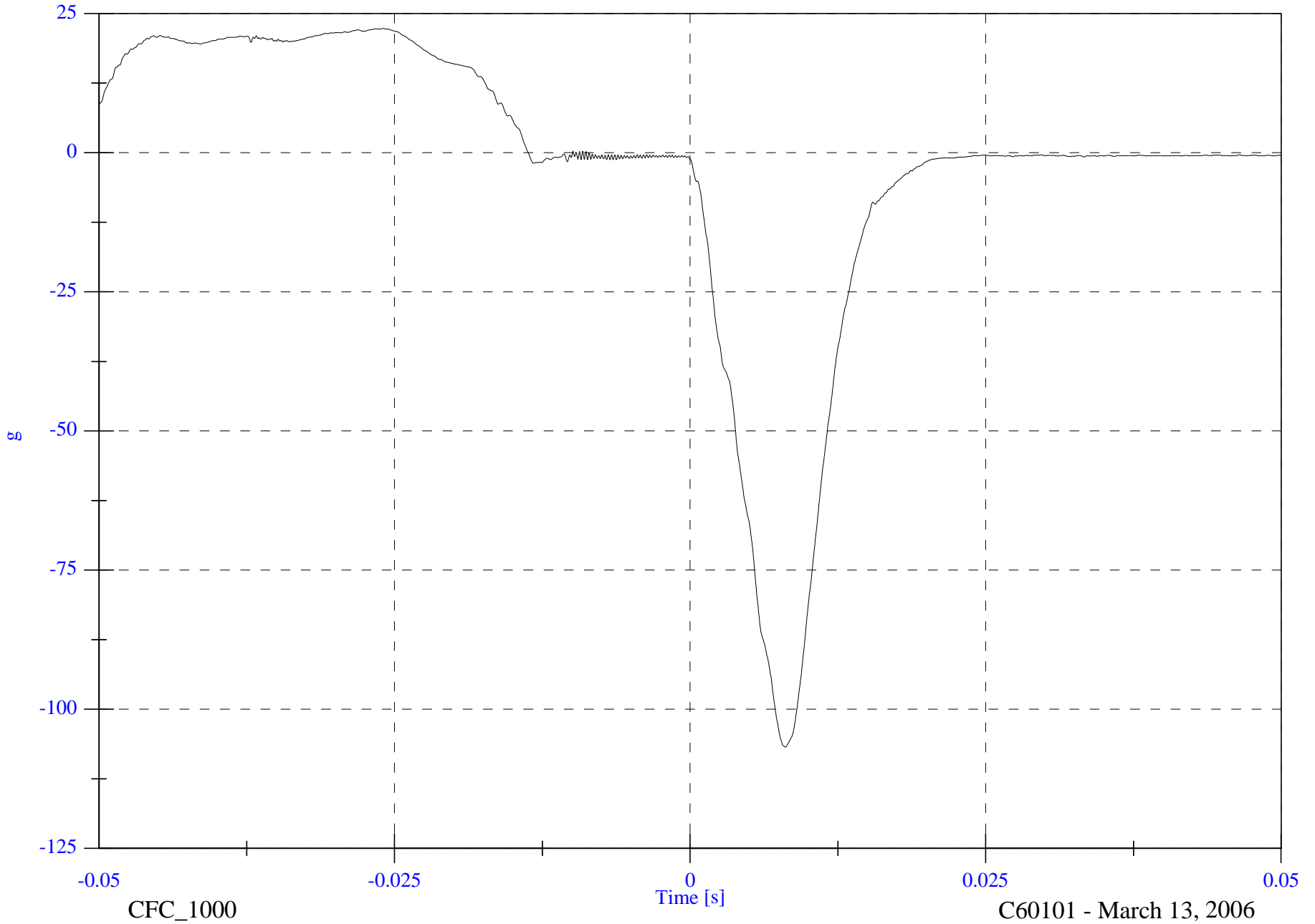


FMVSS 201U IMPACT TEST - 2006 Chevrolet Cobalt

Headform X Acceleration

Max: 22.3 [g] at -0.026 [s]

Min: -106.8 [g] at 0.008 [s]



C60101 PASSENGER SIDE SR2A IMPACT PLOT #4

8754+FMH-08

CFC_1000

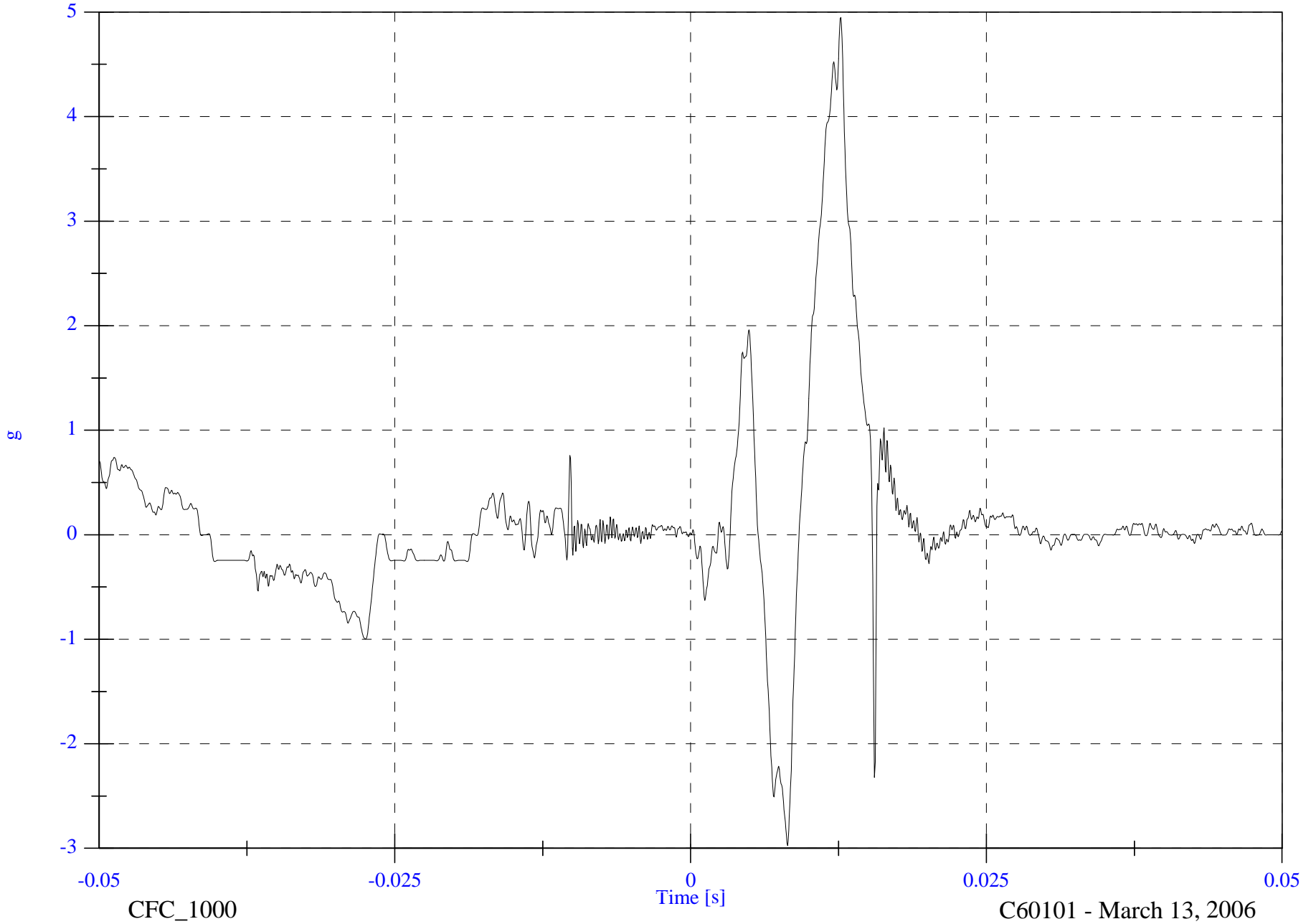
C60101 - March 13, 2006

FMVSS 201U IMPACT TEST - 2006 Chevrolet Cobalt

Headform Y Acceleration

Max: 4.9 [g] at 0.013 [s]

Min: -3.0 [g] at 0.008 [s]



C60101 PASSENGER SIDE SR2A IMPACT PLOT #5

8754+FMH-08

CFC_1000

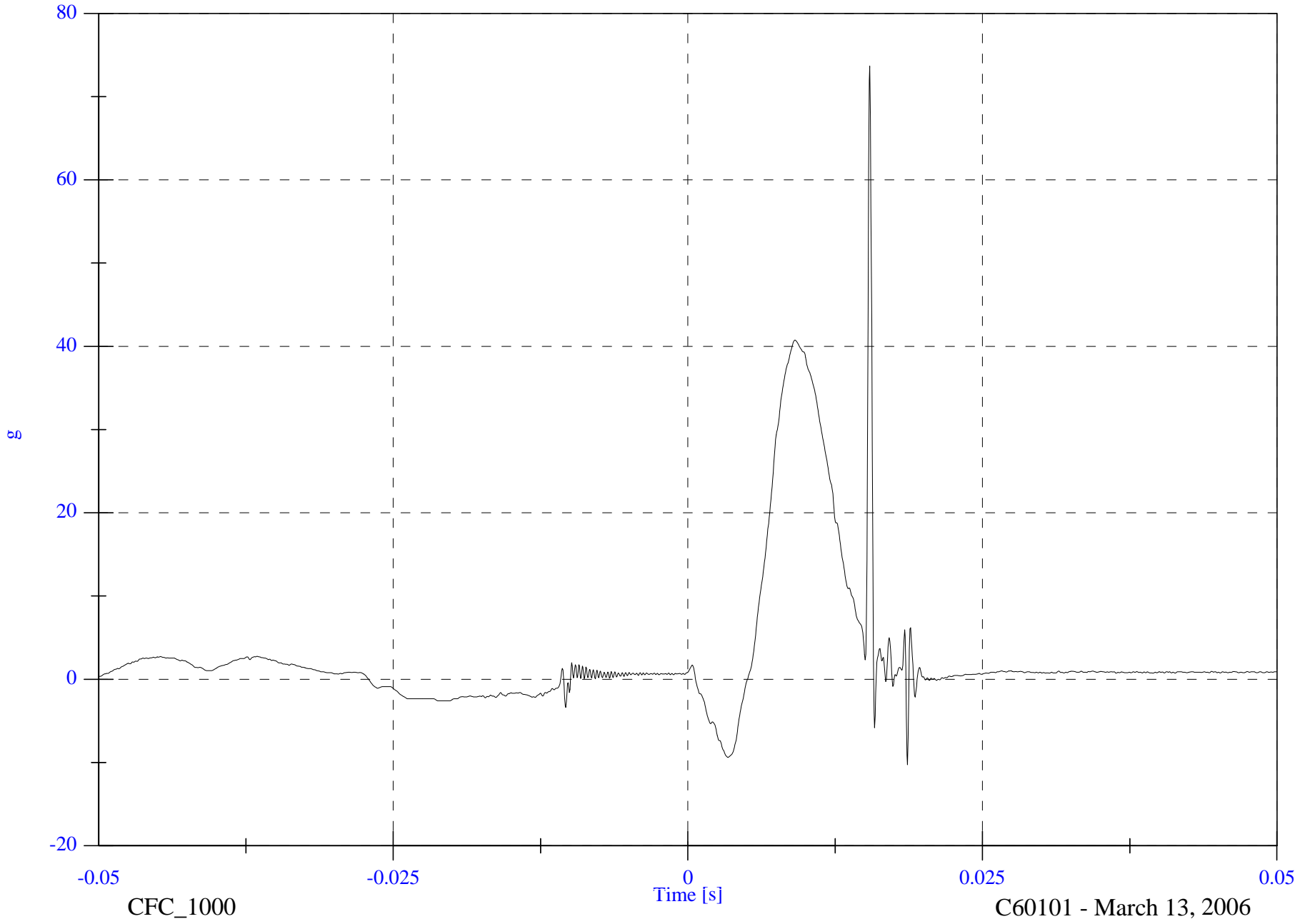
C60101 - March 13, 2006

FMVSS 201U IMPACT TEST - 2006 Chevrolet Cobalt

Headform Z Acceleration

Max: 73.7 [g] at 0.015 [s]

Min: -10.3 [g] at 0.019 [s]



C60101 PASSENGER SIDE SR2A IMPACT PLOT #6

8754+FMH-08

CFC_1000

C60101 - March 13, 2006

FMVSS 201U IMPACT TEST - 2006 Chevrolet Cobalt

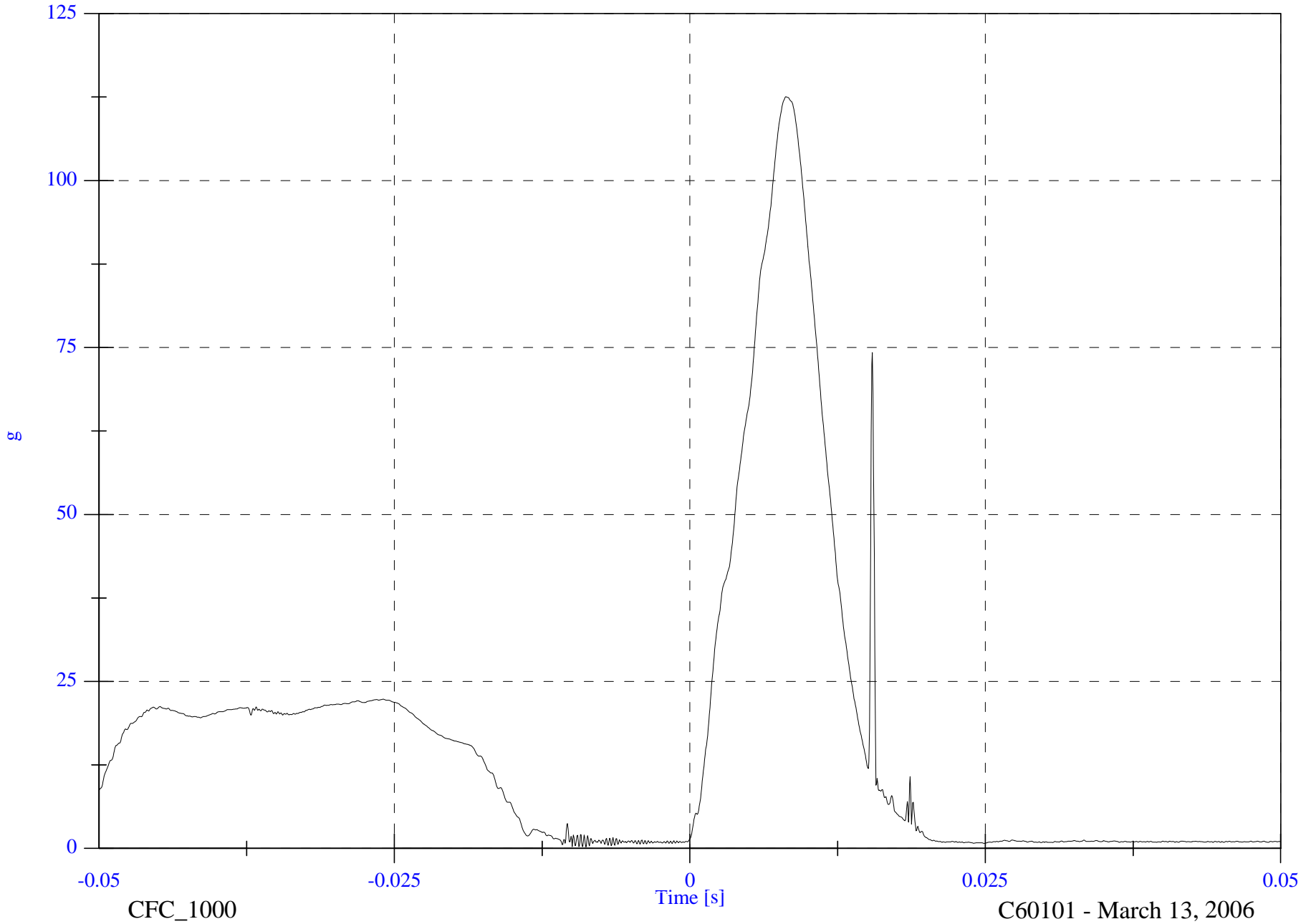
Headform Resultant

Max: 112.5 [g] at 0.008 [s]

Min: 0.2 [g] at -0.009 [s]

C60101 PASSENGER SIDE SR2A IMPACT PLOT #7

8754+FMH-08



CFC_1000

C60101 - March 13, 2006

FMVSS 201U IMPACT TEST - 2006 Chevrolet Cobalt

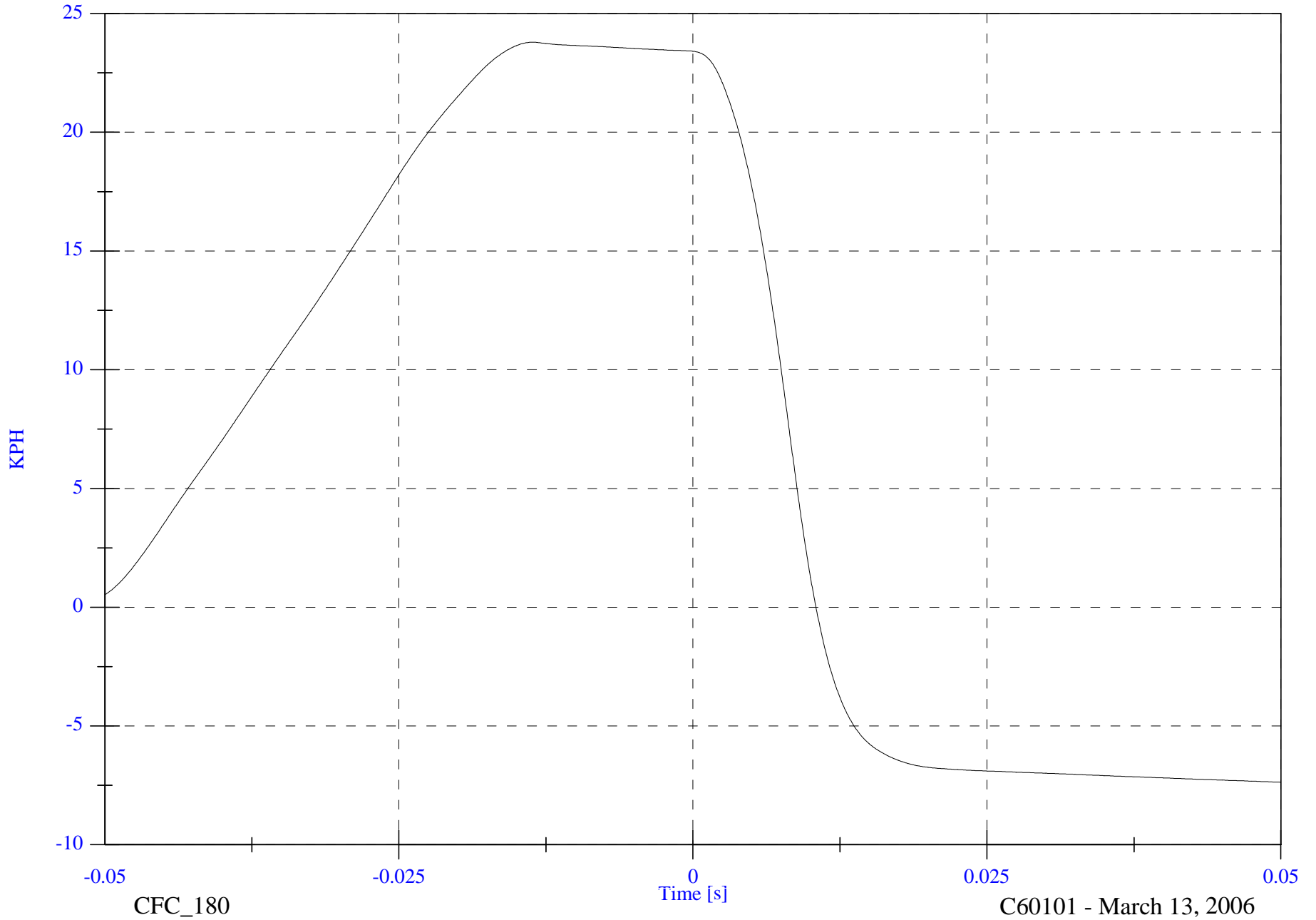
Headform Velocity

Max: 23.8 [KPH] at -0.014 [s]

Min: -7.4 [KPH] at 0.050 [s]

C60101 PASSENGER SIDE SR2A IMPACT PLOT #8

8754+FMH-08



CFC_180

C60101 - March 13, 2006



PRE-IMPACT SR2A



POST-IMPACT SR2A

VEHICLE YEAR/MAKE/MODEL/STYLE:	2006 Chevrolet Cobalt, 2-door, LS Coupe
VIN:	1G1AK15F867688159
DATE OF MANUFACTURE:	10/05 (SEE CERTIFICATION LABEL)
COLOR:	Black

Test Number:	08
Test Date:	03/14/06
Target Location:	SIDE RAIL
Target Code:	SR3
Horizontal Impact Angle:	270°
Vertical Impact Angle:	47°
Ambient Temperature:	21.3 C°
Relative Humidity:	25.8
Time of Impact:	9:10
Headform Number:	0805

Impact Point Description (from lower midpoint on midsagittal line)				
On Centerline	4	x	mm right	mm left
On Centerline	18		mm up	



POST-IMPACT SR3 HEADFORM

Free Motion HIC	615.3
HIC(d)	630.6
Impact Velocity (kph)	23.4
HIC T1 (msec)	4.8
HIC T2 (msec)	12.5

FMVSS 201U IMPACT TEST - 2006 Chevrolet Cobalt C60101 - SR3

FMH Headform 0805

Location: SR3

Test Date: March 14, 2006

Work File: SR3

-----TEST RESULTS-----

Lab Temperature: 21.3 C

HICd: 630.6

Lab Humidity: 25.8 %

HIC (36ms): 615.3

Velocity at Impact: 23.40 KPH

t1: 4.8 msec

t2: 12.5 msec

Free Flight Distance: 216.50 mm

Duration: 7.7 msec

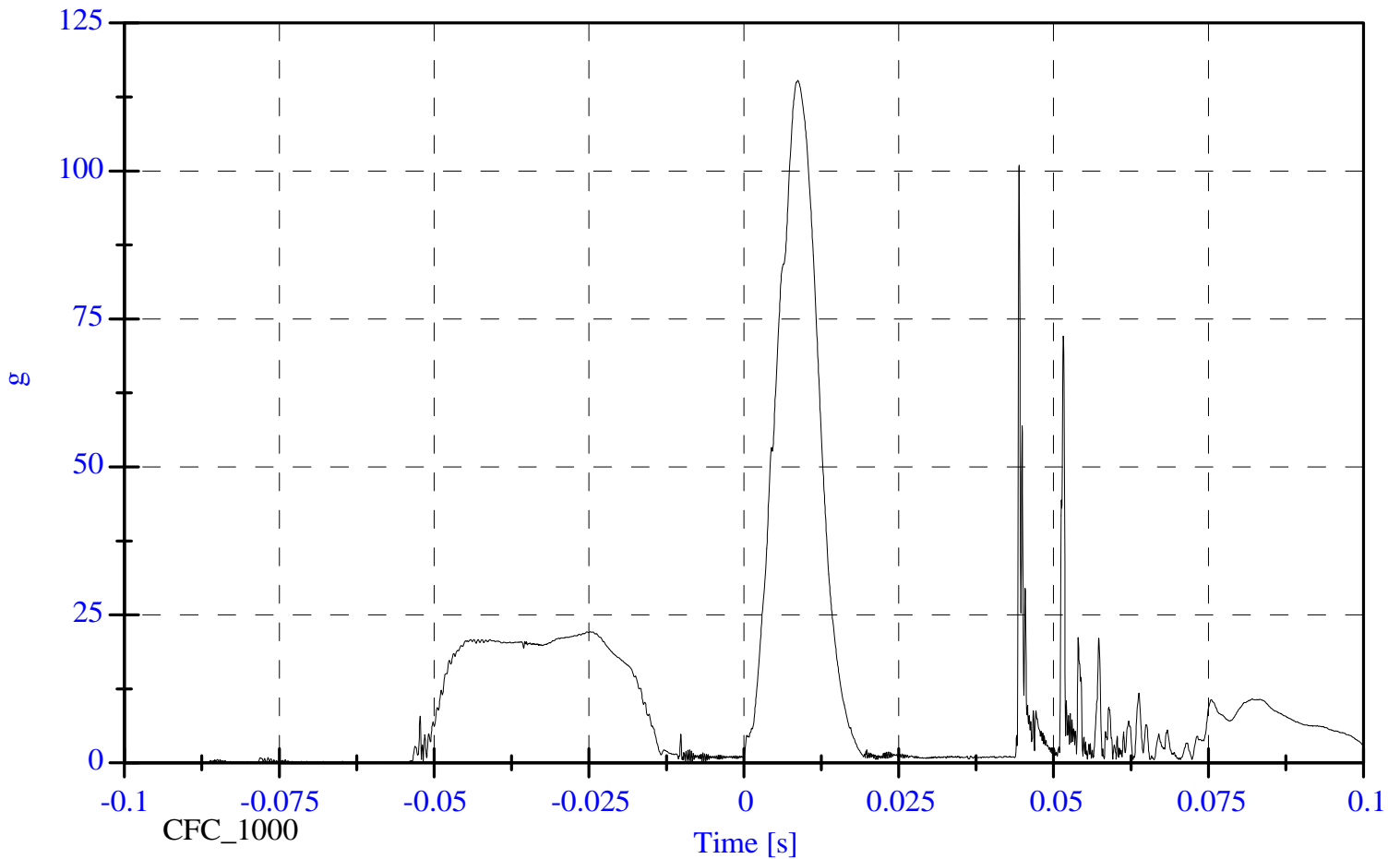
Maximum: 115.3 g

Average Acceleration: 10.3 g

FMVSS 201U IMPACT TEST - 2006 Chevrolet Cobalt
Headform Resultant

Max: 115.3 [g] at 0.009 [s]

Min: 0.0 [g] at -0.098 [s]



FMVSS 201U IMPACT TEST - 2006 Chevrolet Cobalt

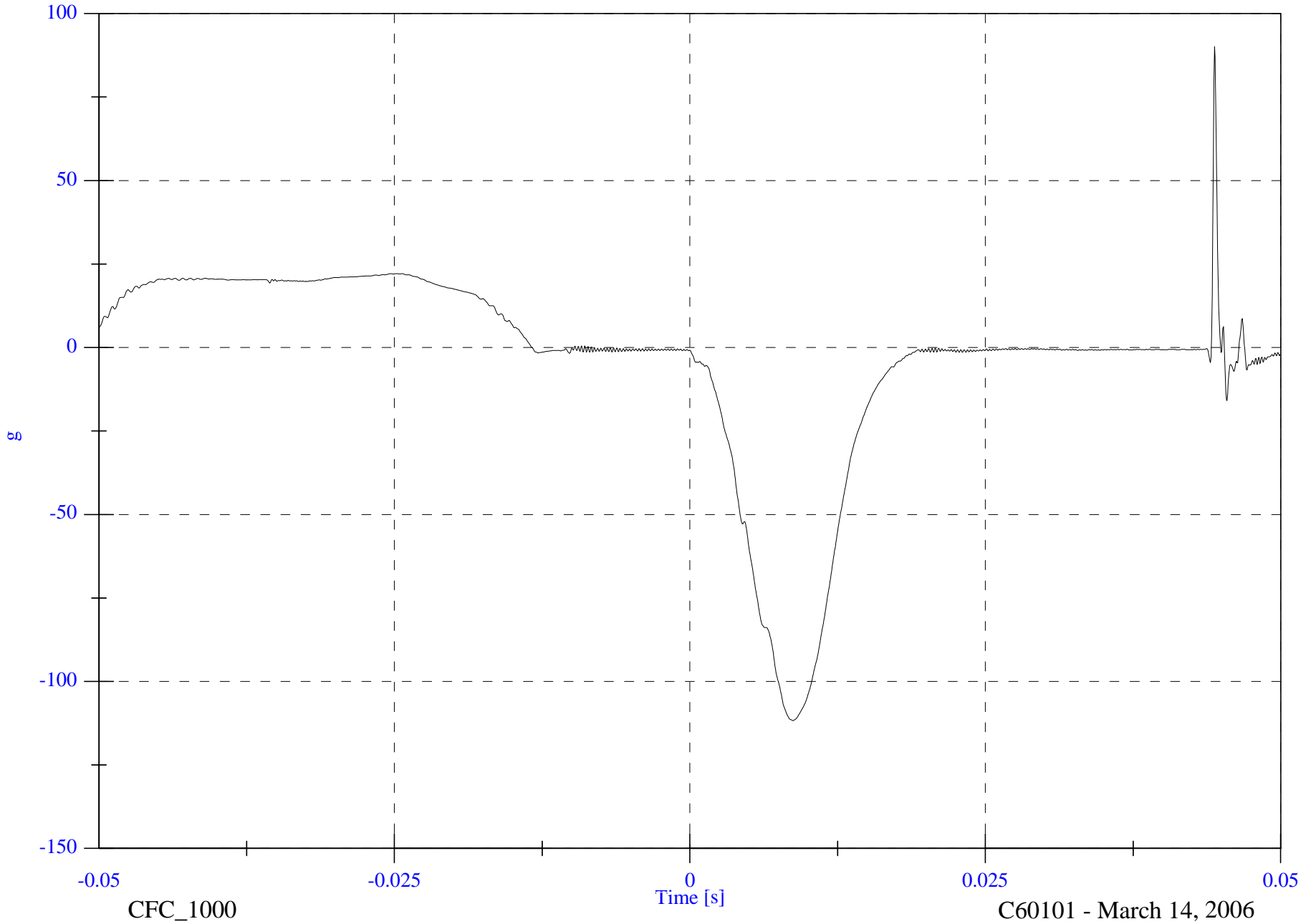
Headform X Acceleration

Max: 90.1 [g] at 0.044 [s]

Min: -111.7 [g] at 0.009 [s]

C60101 DRIVER SIDE SR3 IMPACT PLOT #1

8754+FMH-08



CFC_1000

Time [s]

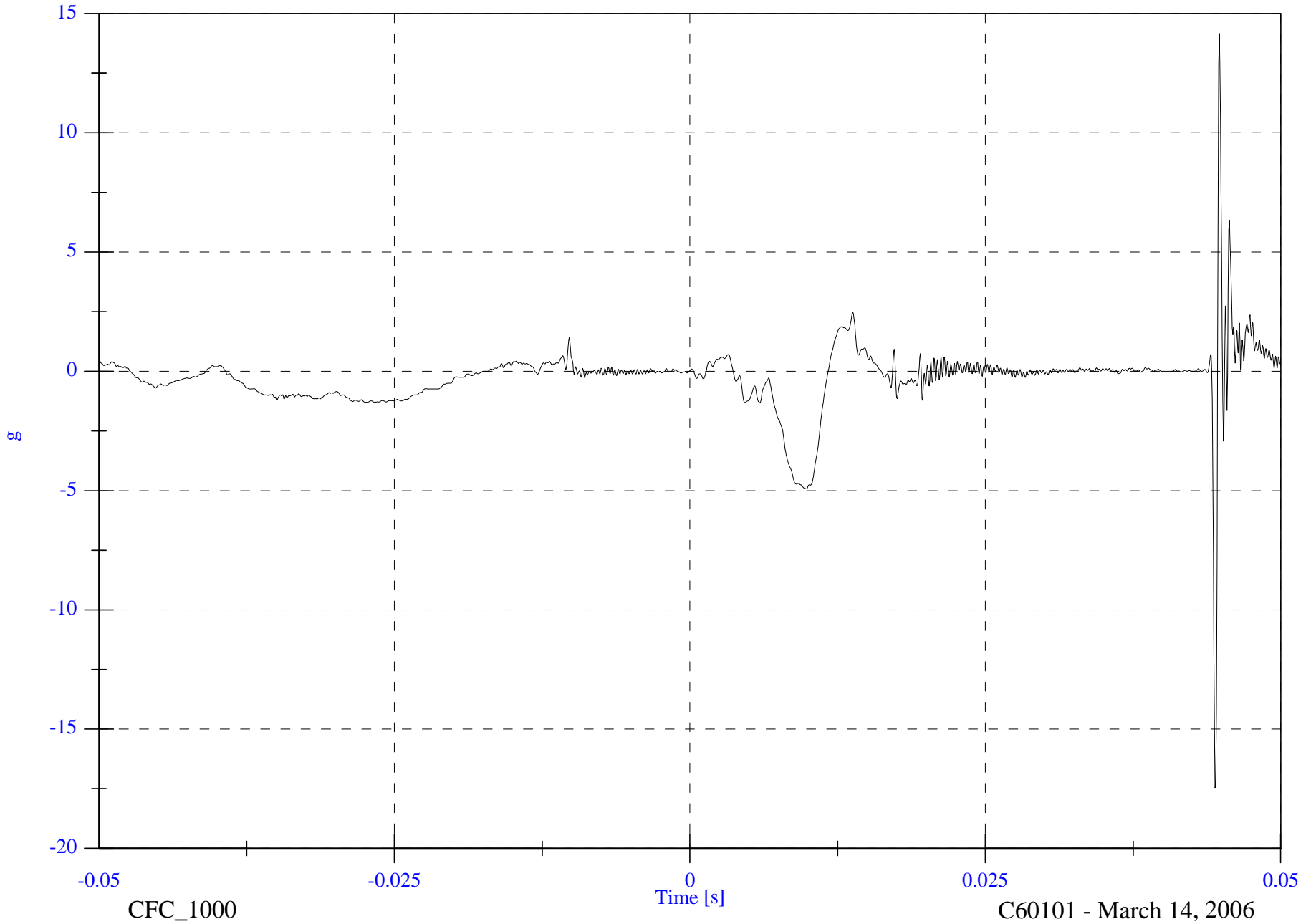
C60101 - March 14, 2006

FMVSS 201U IMPACT TEST - 2006 Chevrolet Cobalt

Headform Y Acceleration

Max: 14.2 [g] at 0.045 [s]

Min: -17.5 [g] at 0.044 [s]



C60101 DRIVER SIDE SR3 IMPACT PLOT #2

8754+FMH-08

CFC_1000

Time [s]

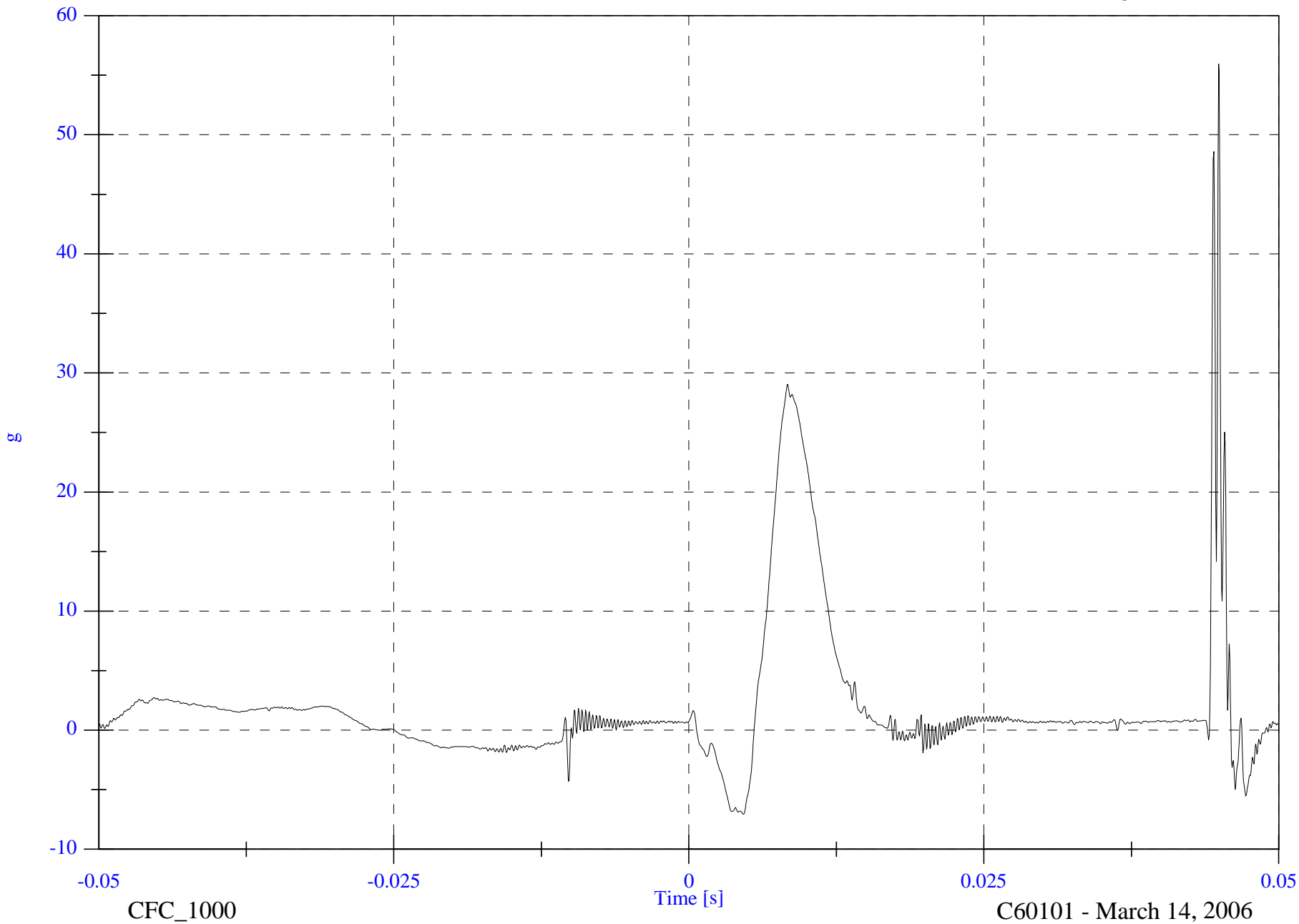
C60101 - March 14, 2006

FMVSS 201U IMPACT TEST - 2006 Chevrolet Cobalt

Headform Z Acceleration

Max: 55.9 [g] at 0.045 [s]

Min: -7.0 [g] at 0.005 [s]



C60101 DRIVER SIDE SR3 IMPACT PLOT #3

8754+FMH-08

FMVSS 201U IMPACT TEST - 2006 Chevrolet Cobalt

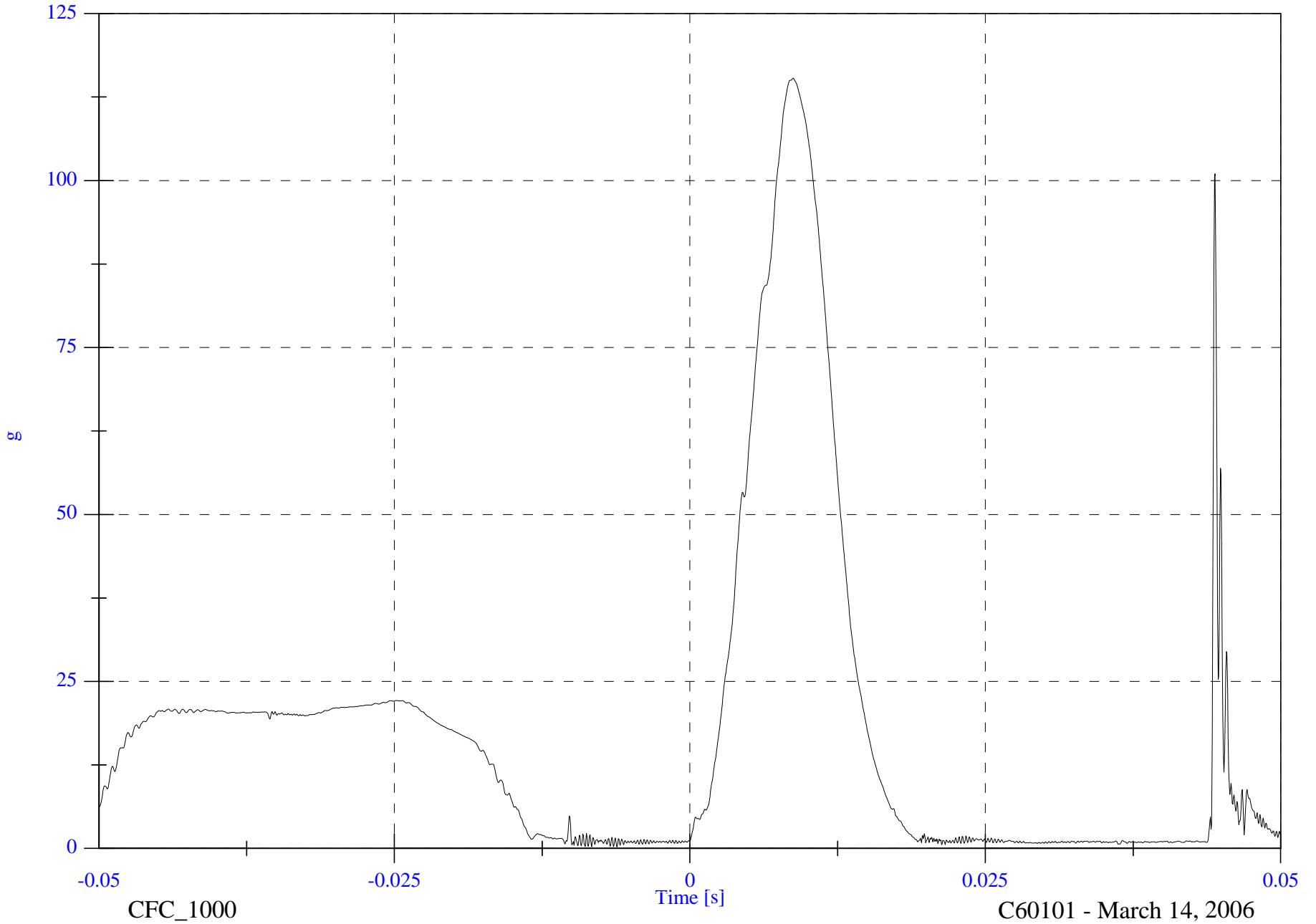
Headform Resultant

Max: 115.3 [g] at 0.009 [s]

Min: 0.2 [g] at -0.006 [s]

C60101 DRIVER SIDE SR3 IMPACT PLOT #4

8754-FMH-08



CFC_1000

C60101 - March 14, 2006

FMVSS 201U IMPACT TEST - 2006 Chevrolet Cobalt

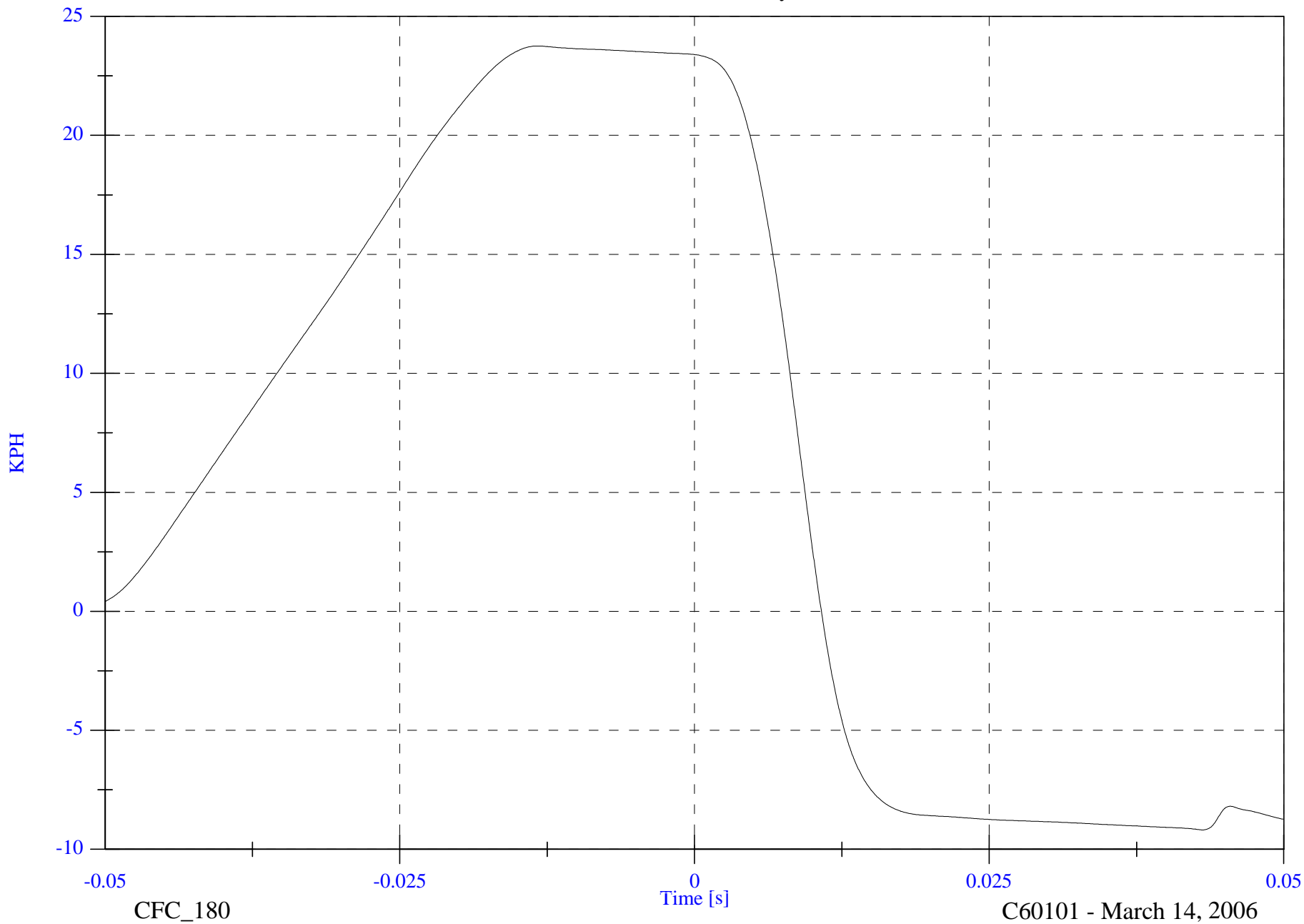
Headform Velocity

Max: 23.8 [KPH] at -0.013 [s]

Min: -9.2 [KPH] at 0.043 [s]

C60101 DRIVER SIDE SR3 IMPACT PLOT #5

8754+FMH-08



CFC_180

Time [s]

C60101 - March 14, 2006



PRE-IMPACT SR3



POST-IMPACT SR3

VEHICLE YEAR/MAKE/MODEL/STYLE:	2006 Chevrolet Cobalt, 2-door, LS Coupe
VIN:	1G1AK15F867688159
DATE OF MANUFACTURE:	10/05 (SEE CERTIFICATION LABEL)
COLOR:	Black

Test Number:	09
Test Date:	03/14/06
Target Location:	UPPER ROOF
Target Code:	URBP
Horizontal Impact Angle:	270°
Vertical Impact Angle:	47°
Ambient Temperature:	21.6 C°
Relative Humidity:	25.5
Time of Impact:	9:35
Headform Number:	1255

Impact Point Description (from lower midpoint on midsagittal line)					
On Centerline	2	x	mm right		mm left
On Centerline	36				mm up



POST-IMPACT URBP HEADFORM

Free Motion HIC	646.9
HIC(d)	654.5
Impact Velocity (kph)	23.42
HIC T1 (msec)	4.9
HIC T2 (msec)	12.1

FMVSS 201U IMPACT TEST - 2006 Chevrolet Cobalt C60101 - URBP

FMH Headform 1255

Location: URBP

Test Date: March 14, 2006

Work File: URBP

-----TEST RESULTS-----

Lab Temperature: 21.6 C

HICd: 654.5

Lab Humidity: 25.5 %

HIC (36ms): 646.9

Velocity at Impact: 23.42 KPH

t1: 4.9 msec

t2: 12.1 msec

Free Flight Distance: 217.30 mm

Duration: 7.1 msec

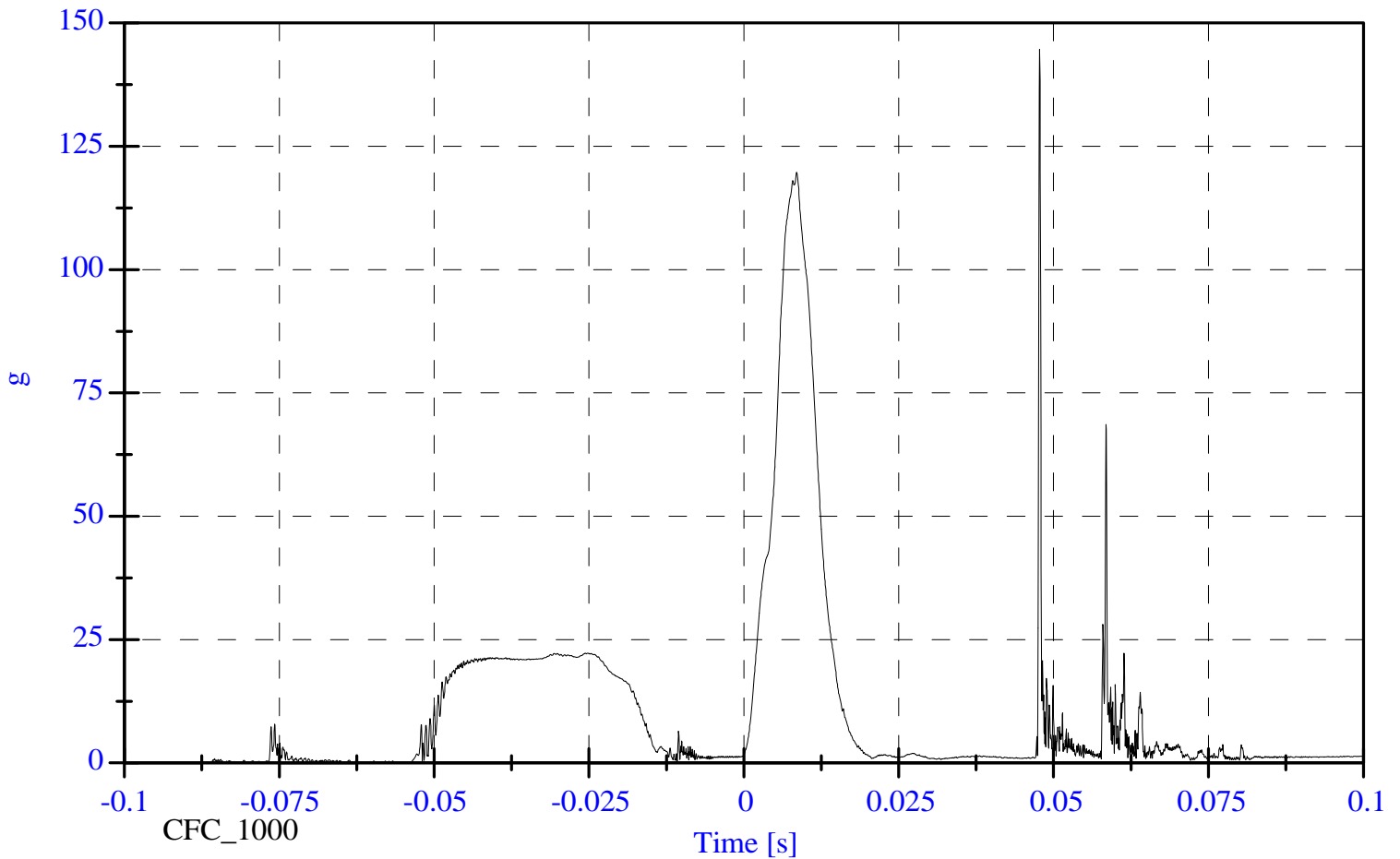
Maximum: 119.7 g

Average Acceleration: 9.7 g

FMVSS 201U IMPACT TEST - 2006 Chevrolet Cobalt
Headform Resultant

Max: 119.7 [g] at 0.008 [s]

Min: 0.0 [g] at -0.093 [s]



FMVSS 201U IMPACT TEST - 2006 Chevrolet Cobalt

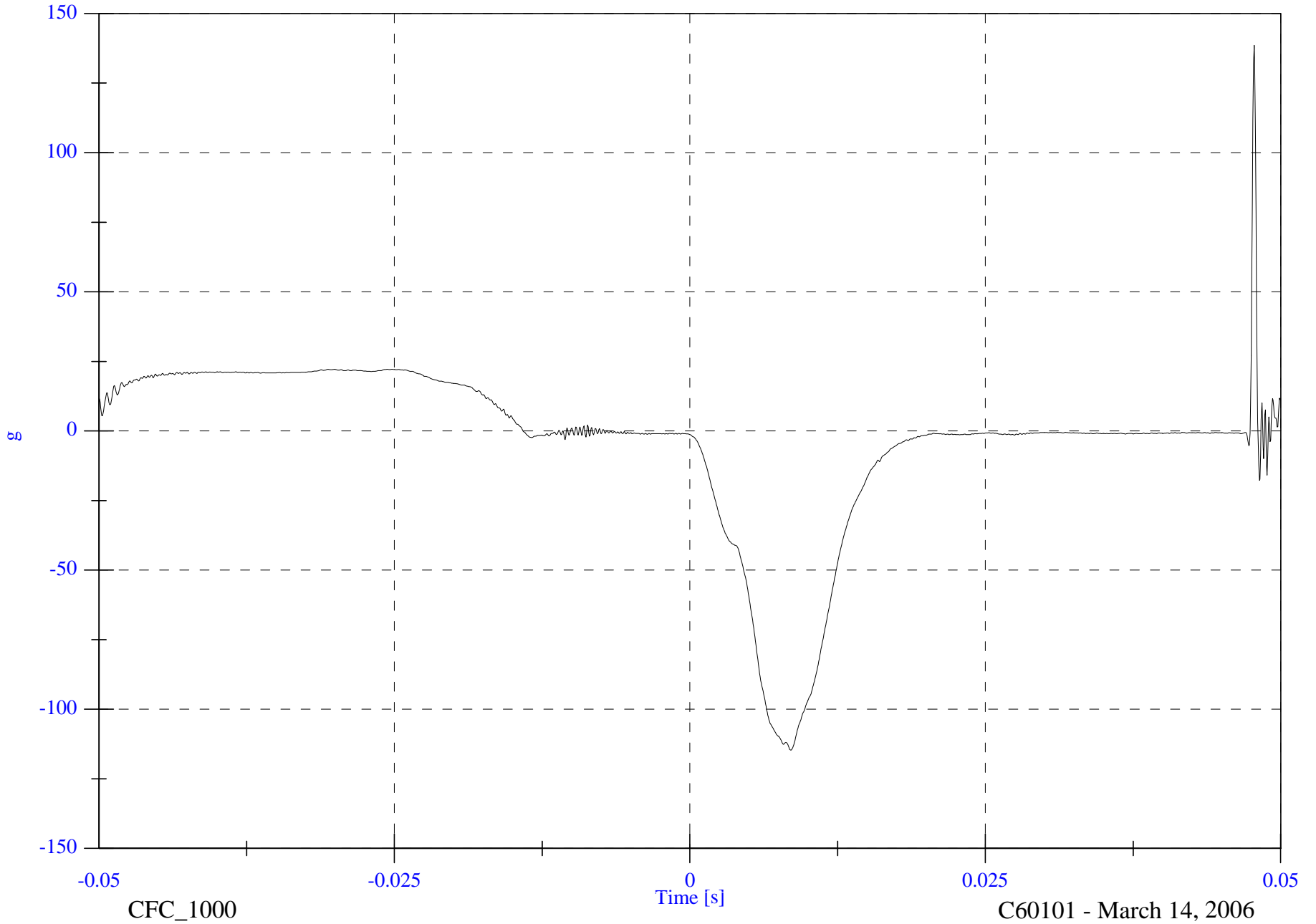
Headform X Acceleration

Max: 138.5 [g] at 0.048 [s]

Min: -114.7 [g] at 0.009 [s]

C60101 DRIVER SIDE URBP IMPACT PLOT #1

8754+FMH-08



CFC_1000

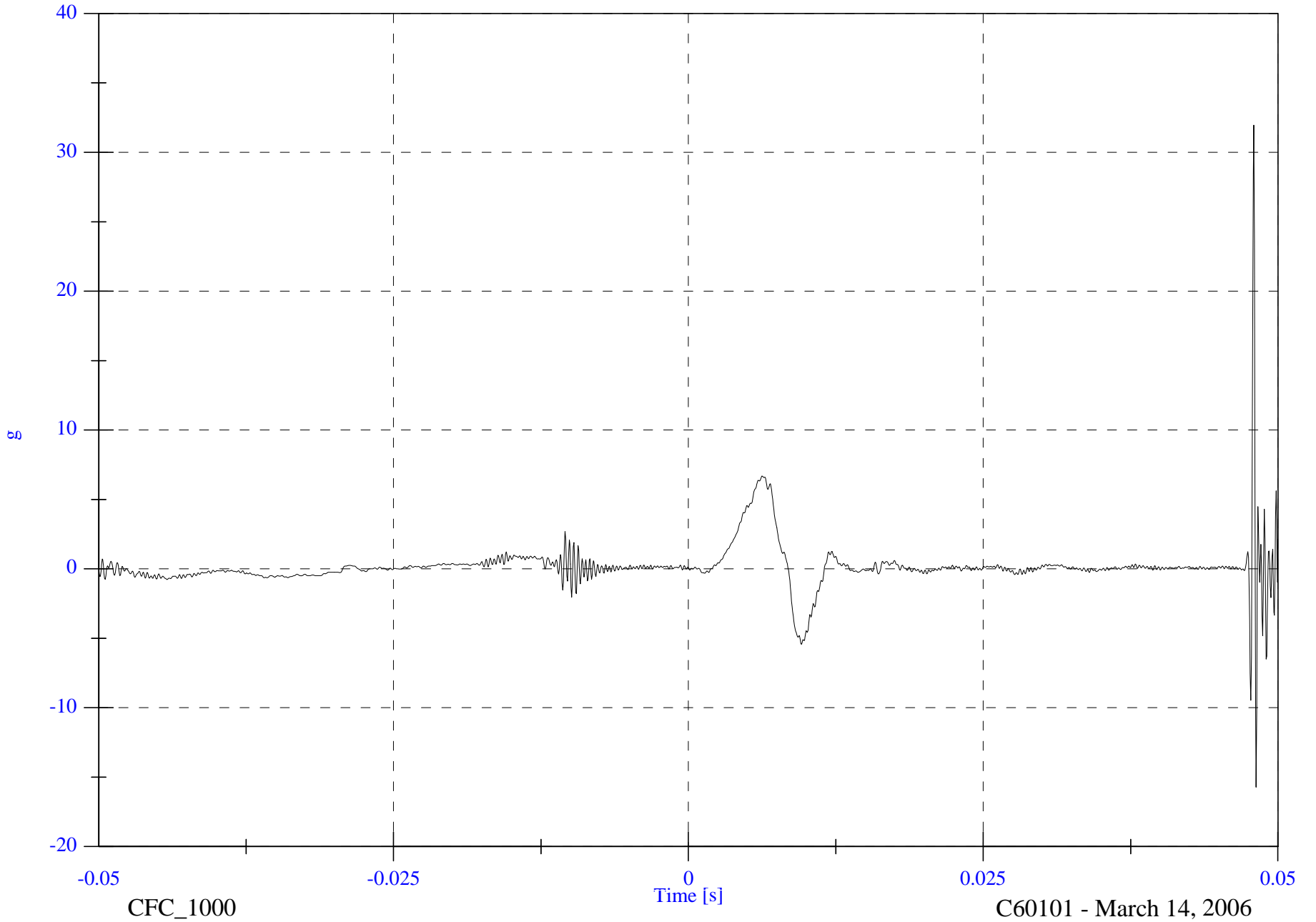
C60101 - March 14, 2006

FMVSS 201U IMPACT TEST - 2006 Chevrolet Cobalt

Headform Y Acceleration

Max: 32.0 [g] at 0.048 [s]

Min: -15.7 [g] at 0.048 [s]



C60101 DRIVER SIDE URBP IMPACT PLOT #2

8754+FMH-08

CFC_1000

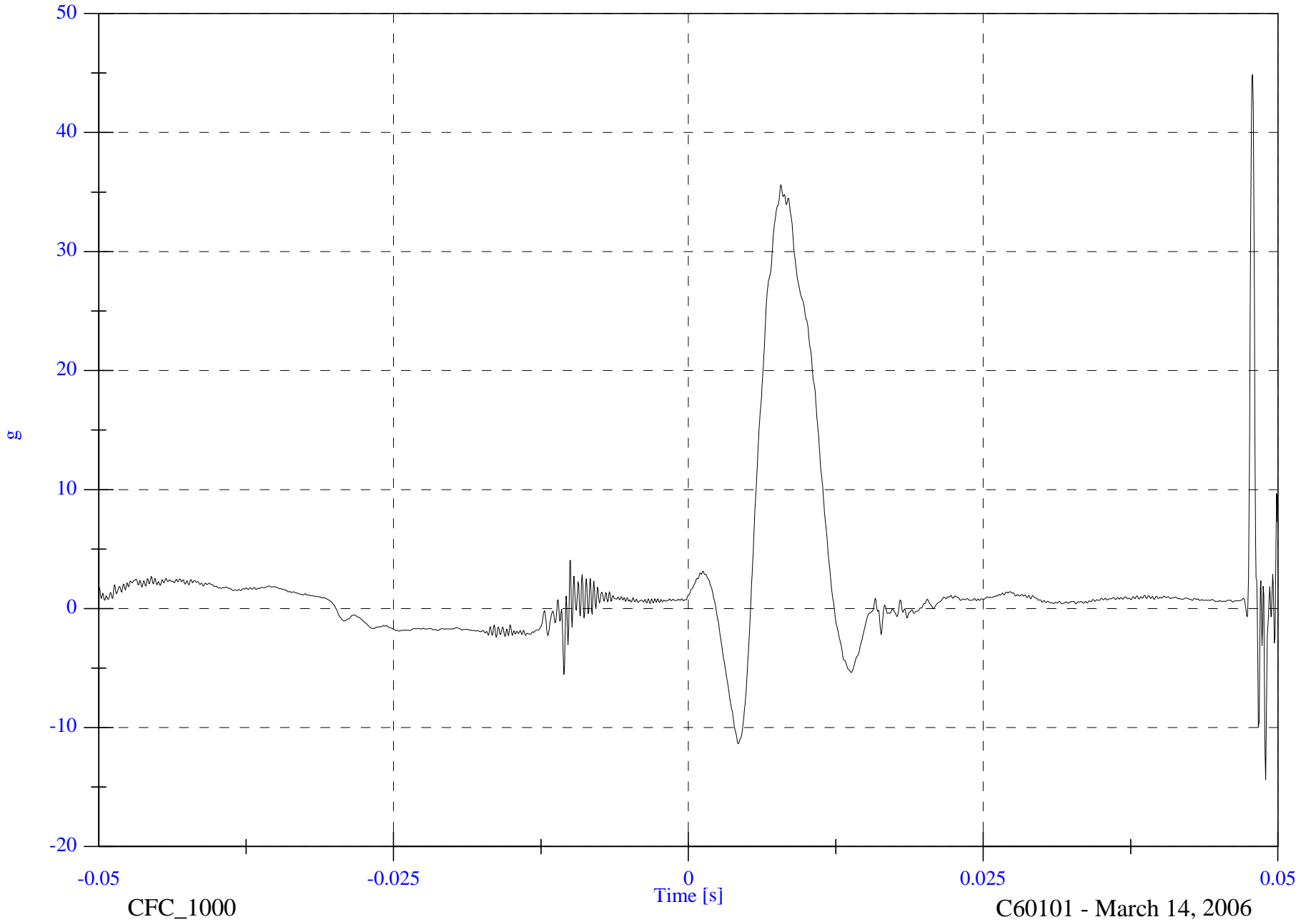
C60101 - March 14, 2006

FMVSS 201U IMPACT TEST - 2006 Chevrolet Cobalt

Headform Z Acceleration

Max: 44.9 [g] at 0.048 [s]

Min: -14.4 [g] at 0.049 [s]



C60101 DRIVER SIDE URBP IMPACT PLOT #3

8754+FMH-08

CFC_1000

C60101 - March 14, 2006

FMVSS 201U IMPACT TEST - 2006 Chevrolet Cobalt

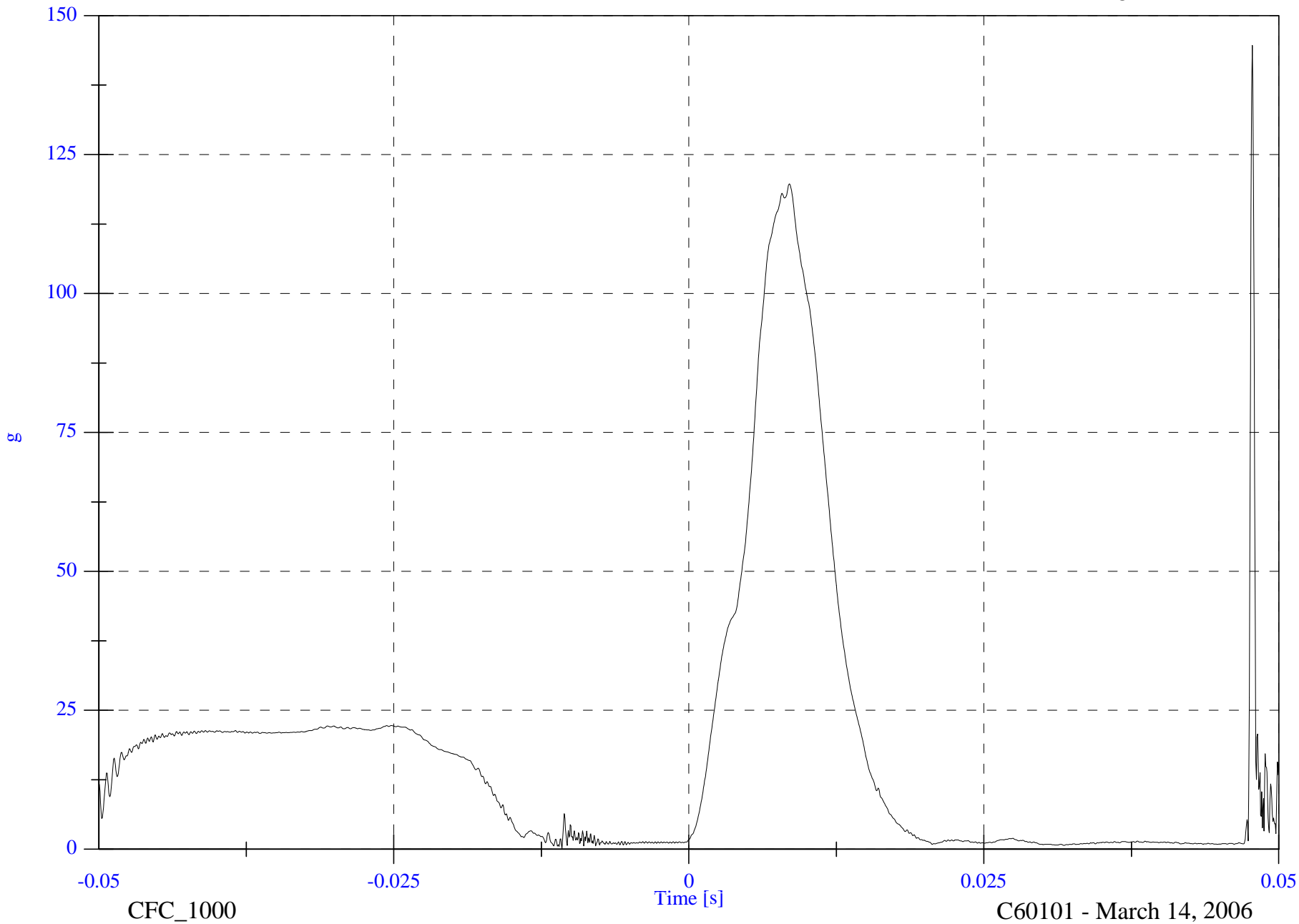
Headform Resultant

Max: 144.6 [g] at 0.048 [s]

Min: 0.1 [g] at -0.011 [s]

C60101 DRIVER SIDE URBP IMPACT PLOT #4

8754+FMH-08



FMVSS 201U IMPACT TEST - 2006 Chevrolet Cobalt

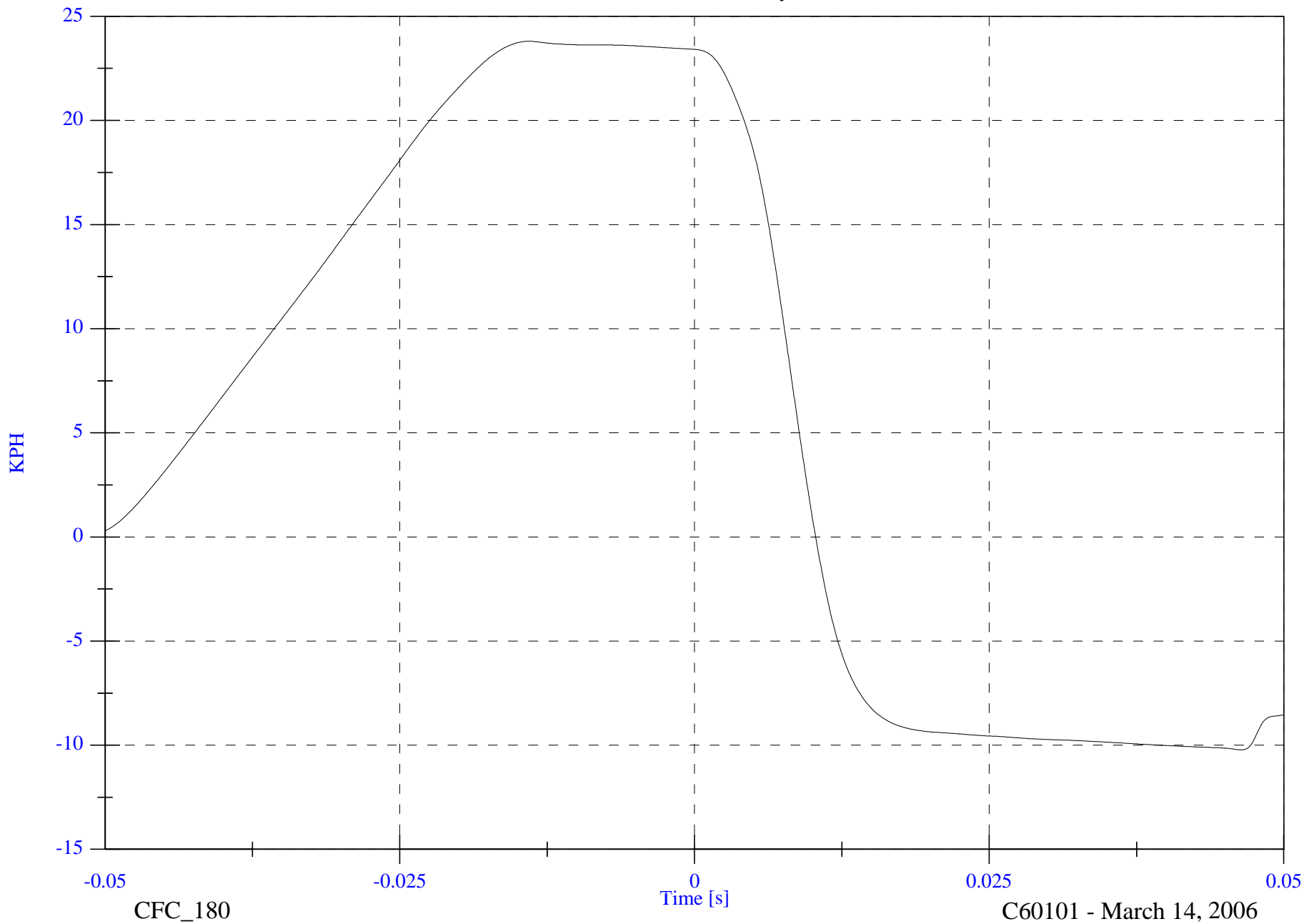
Headform Velocity

Max: 23.8 [KPH] at -0.014 [s]

Min: -10.2 [KPH] at 0.046 [s]

C60101 DRIVER SIDE URBP IMPACT PLOT #5

8754+FMH-08



CFC_180

C60101 - March 14, 2006



PRE-IMPACT URBP



POST-IMPACT URBP

VEHICLE YEAR/MAKE/MODEL/STYLE:	2006 Chevrolet Cobalt, 2-door, LS Coupe
VIN:	1G1AK15F867688159
DATE OF MANUFACTURE:	10/05 (SEE CERTIFICATION LABEL)
COLOR:	Black

Test Number:	10
Test Date:	03/14/06
Target Location:	UPPER ROOF
Target Code:	URSR2A
Horizontal Impact Angle:	270°
Vertical Impact Angle:	50°
Ambient Temperature:	21.5 C°
Relative Humidity:	25.9
Time of Impact:	10:00
Headform Number:	0062

Impact Point Description (from lower midpoint on midsagittal line)					
On Centerline	4	x	mm right		mm left
On Centerline	32				mm up



POST-IMPACT URSR2A HEADFORM

Free Motion HIC	506.8
HIC(d)	548.8
Impact Velocity (kph)	23.48
HIC T1 (msec)	3.9
HIC T2 (msec)	14.3

FMVSS 201U IMPACT TEST - 2006 Chevrolet Cobalt C60101 - URSR2A

FMH Headform 0062

Location: URSR2A

Test Date: March 14, 2006

Work File: URSR2A

-----TEST RESULTS-----

Lab Temperature: 21.5 C

HICd: 548.8

Lab Humidity: 25.9 %

HIC (36ms): 506.8

Velocity at Impact: 23.48 KPH

t1: 3.9 msec

t2: 14.3 msec

Free Flight Distance: 220.05 mm

Duration: 10.4 msec

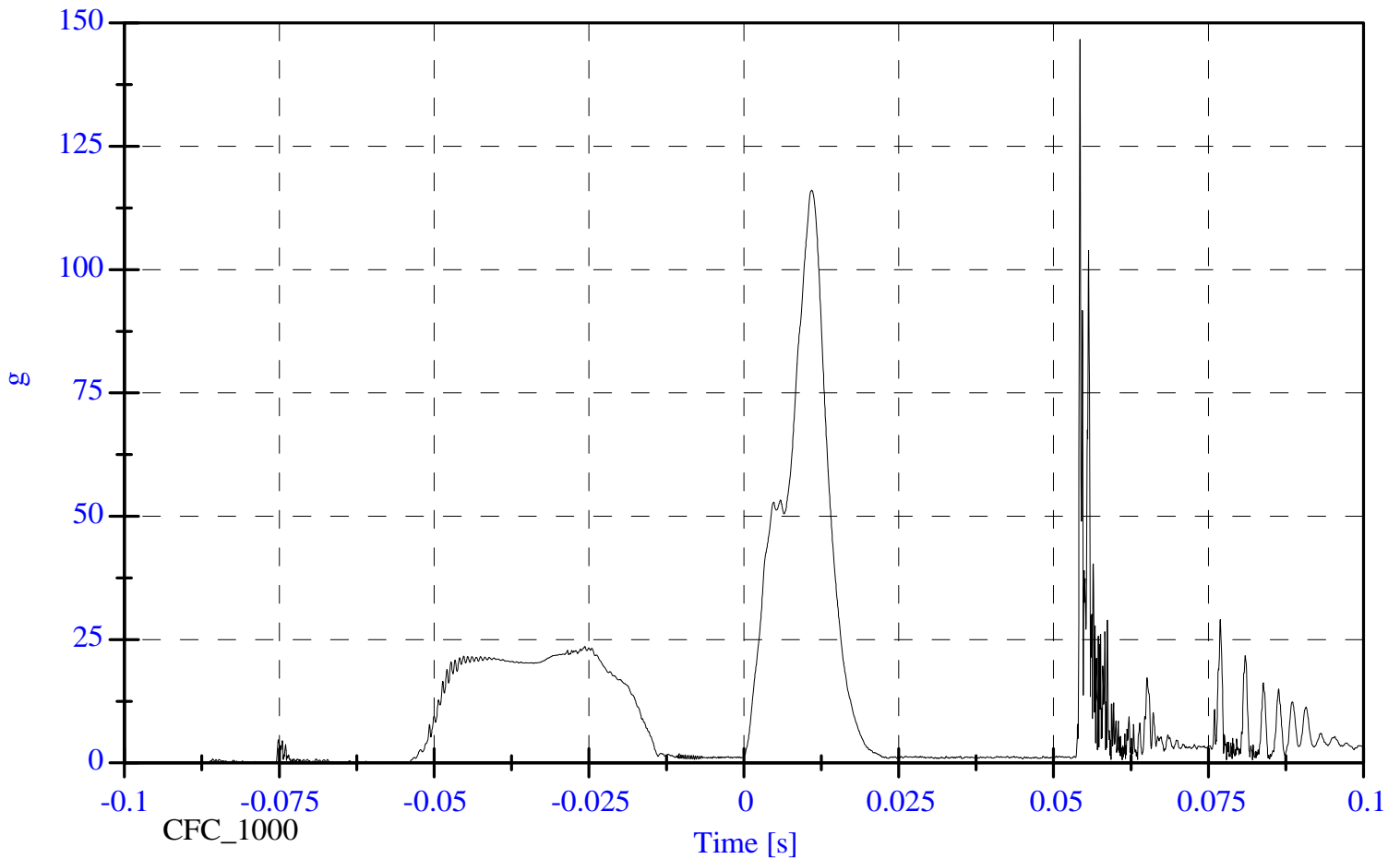
Maximum: 116.1 g

Average Acceleration: 10.6 g

FMVSS 201U IMPACT TEST - 2006 Chevrolet Cobalt
Headform Resultant

Max: 116.1 [g] at 0.011 [s]

Min: 0.0 [g] at -0.097 [s]

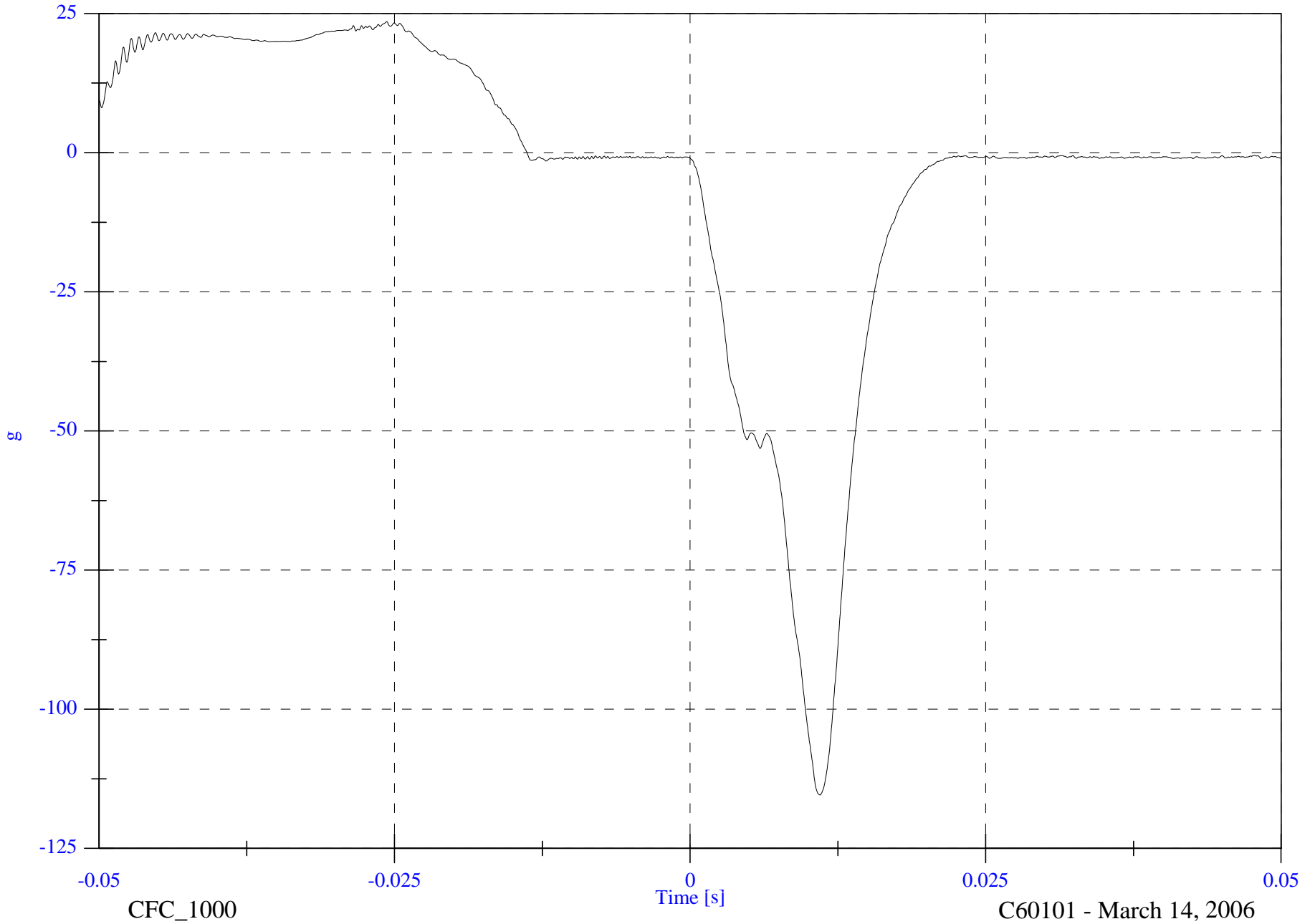


FMVSS 201U IMPACT TEST - 2006 Chevrolet Cobalt

Headform X Acceleration

Max: 23.6 [g] at -0.026 [s]

Min: -115.4 [g] at 0.011 [s]



C60101 DRIVER SIDE URSR2A IMPACT PLOT # 1

8754+FMH-08

CFC_1000

C60101 - March 14, 2006

FMVSS 201U IMPACT TEST - 2006 Chevrolet Cobalt

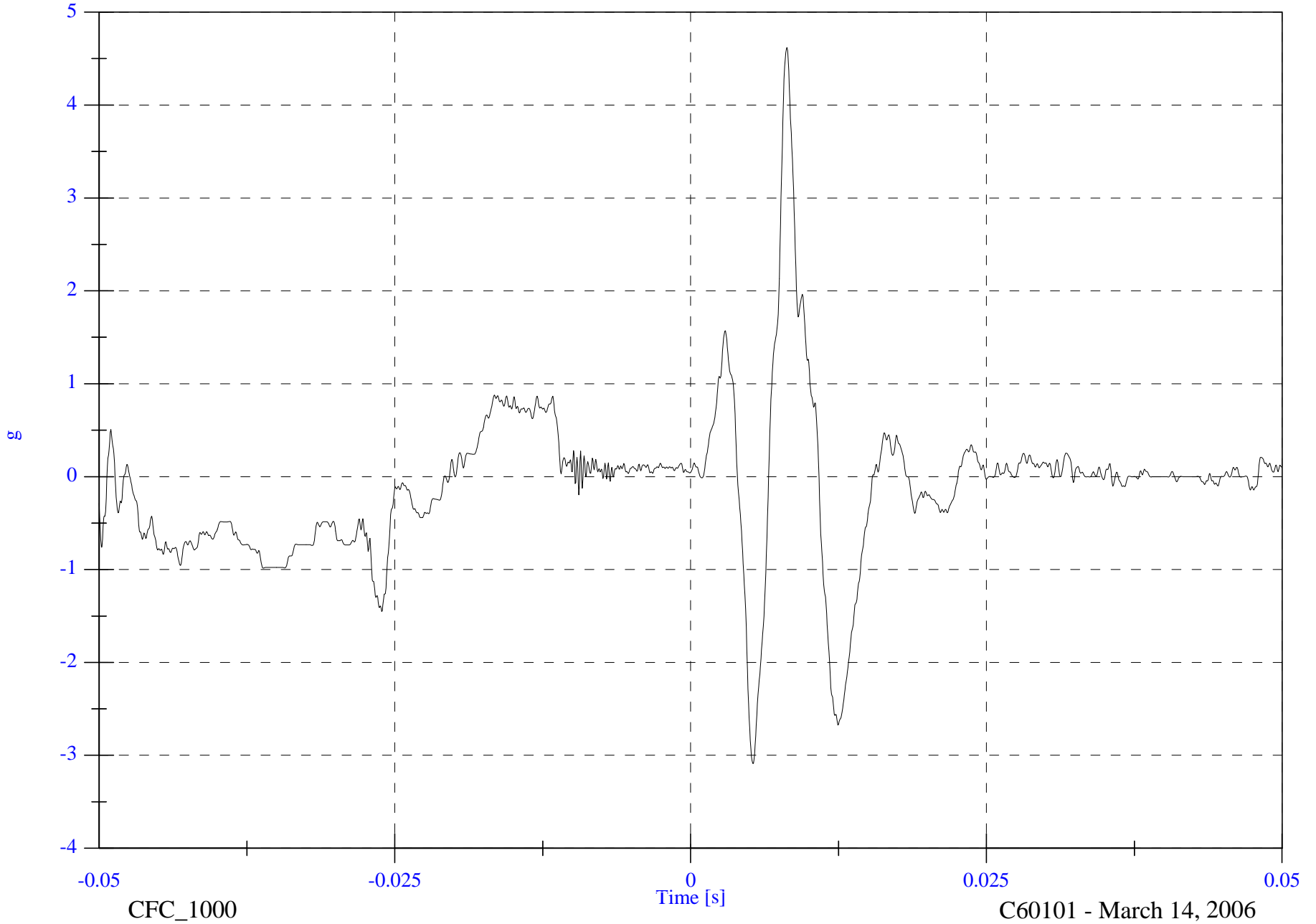
Headform Y Acceleration

Max: 4.6 [g] at 0.008 [s]

Min: -3.1 [g] at 0.005 [s]

C60101 DRIVER SIDE URSR2A IMPACT PLOT # 2

8754+FMH-08



CFC_1000

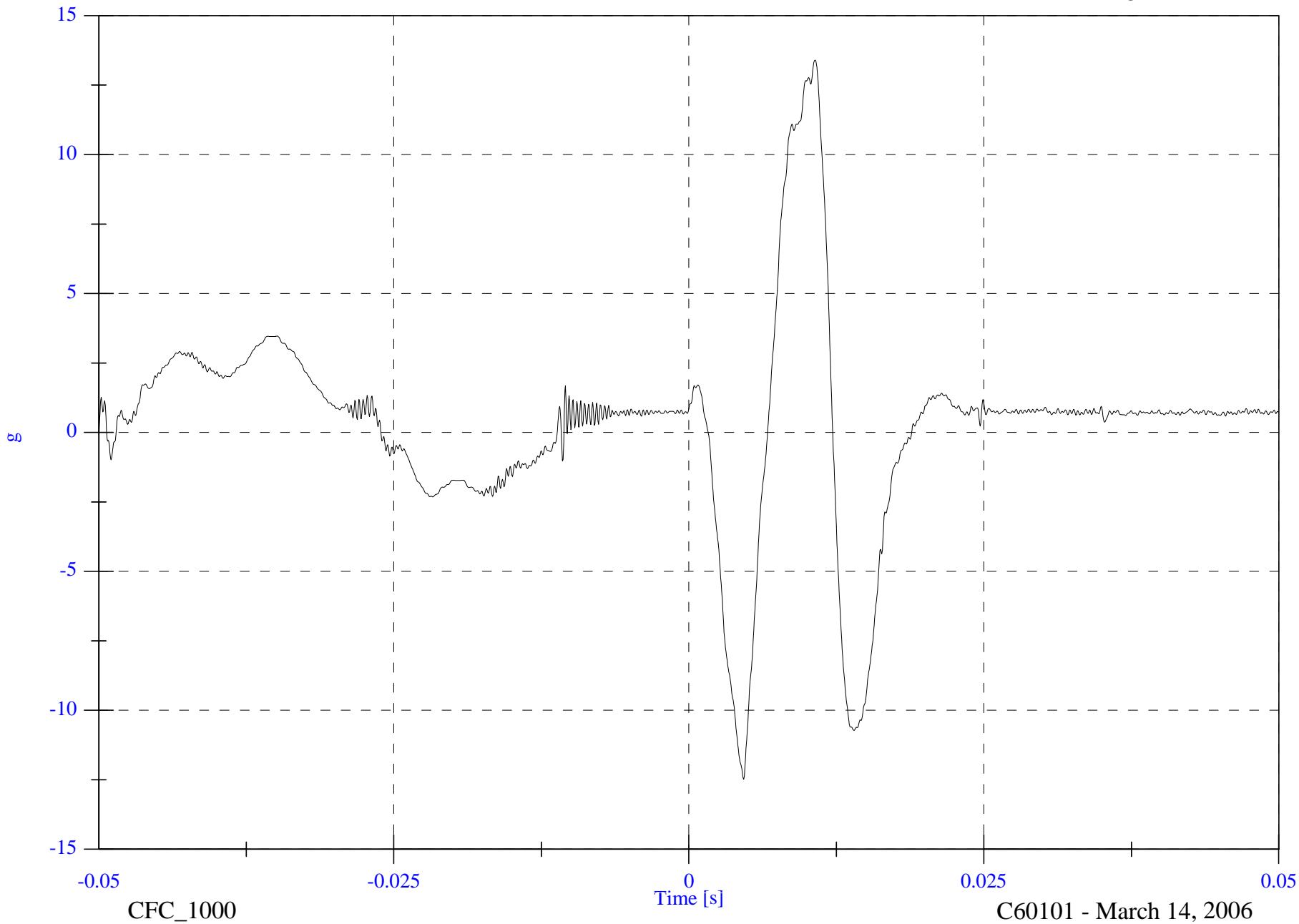
C60101 - March 14, 2006

FMVSS 201U IMPACT TEST - 2006 Chevrolet Cobalt

Headform Z Acceleration

Max: 13.4 [g] at 0.011 [s]

Min: -12.5 [g] at 0.005 [s]



C60101 DRIVER SIDE URSR2A IMPACT PLOT # 3

8754-FMH-08

CFC_1000

C60101 - March 14, 2006

FMVSS 201U IMPACT TEST - 2006 Chevrolet Cobalt

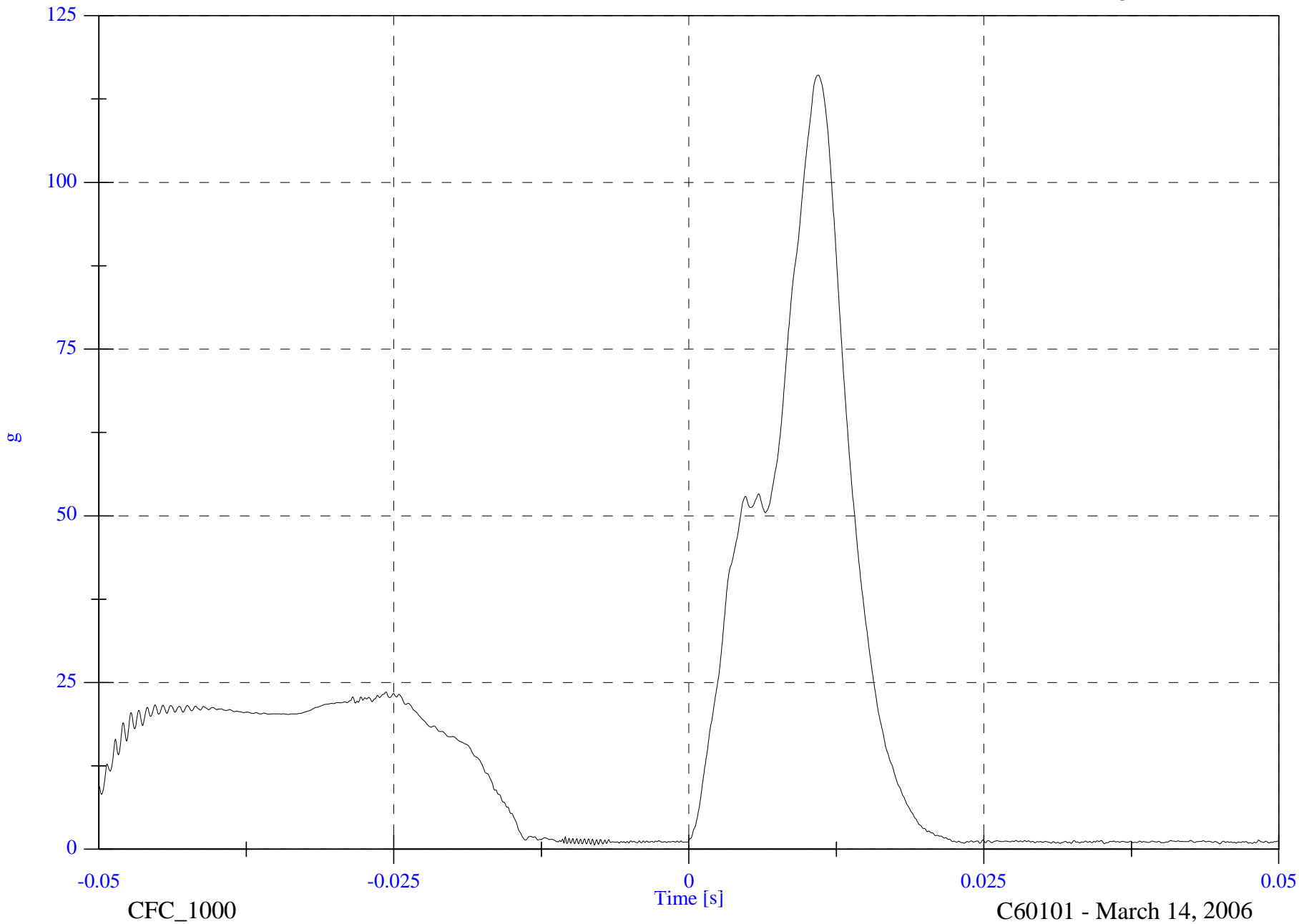
Headform Resultant

Max: 116.1 [g] at 0.011 [s]

Min: 0.6 [g] at -0.008 [s]

C60101 DRIVER SIDE URSR2A IMPACT PLOT # 4

8754+FMH-08



CFC_1000

C60101 - March 14, 2006

FMVSS 201U IMPACT TEST - 2006 Chevrolet Cobalt

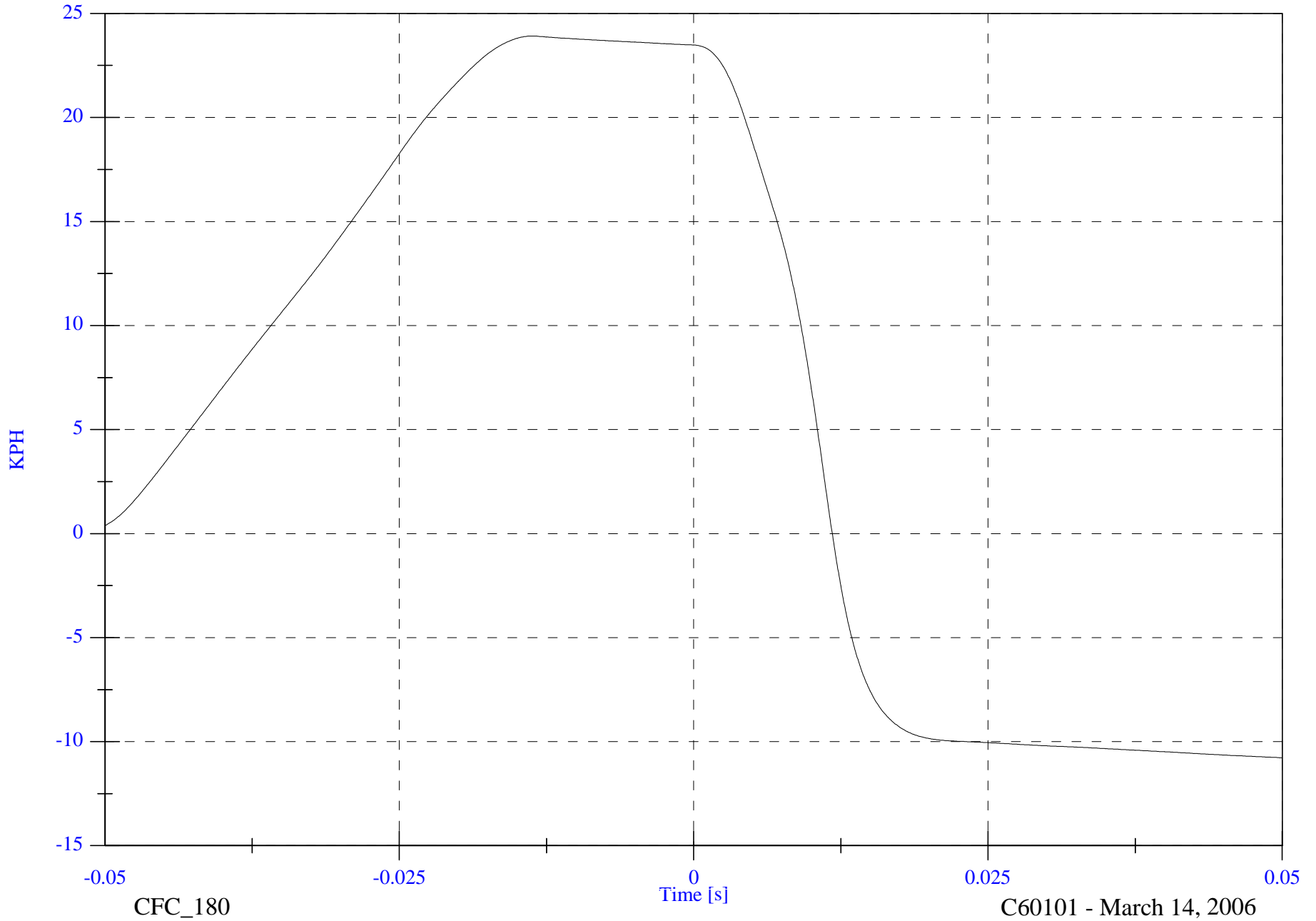
Headform Velocity

Max: 23.9 [KPH] at -0.014 [s]

Min: -10.8 [KPH] at 0.050 [s]

C60101 DRIVER SIDE URSR2A IMPACT PLOT # 5

8754+FMH-08



CFC_180

C60101 - March 14, 2006



PRE-IMPACT URSR2A



POST-IMPACT URSR2A

APPENDIX A

PHOTOGRAPHS

PHOTOGRAPHS

FIGURE	VIEW
A-1	LEFT SIDE VIEW OF VEHICLE
A-2	RIGHT SIDE VIEW OF VEHICLE
A-3	3/4 FRONTAL VIEW FROM RIGHT SIDE OF VEHICLE
A-4	3/4 REAR VIEW FROM LEFT SIDE OF VEHICLE
A-5	VEHICLE'S CERTIFICATION LABEL
A-6	VEHICLE'S TIRE INFORMATION LABEL
A-7	PRE-TEST DRIVER SIDE A-PILLAR
A-8	PRE-TEST DRIVER SIDE FRONT HEADER
A-9	PRE-TEST DRIVER SIDE SIDE RAIL
A-10	PRE-TEST DRIVER SIDE B-PILLAR
A-11	PRE-TEST DRIVER SIDE REAR PILLAR
A-12	PRE-TEST PASSENGER SIDE A-PILLAR
A-13	PRE-TEST PASSENGER SIDE FRONT HEADER
A-14	PRE-TEST PASSENGER SIDE SIDE RAIL
A-15	PRE-TEST PASSENGER SIDE B-PILLAR
A-16	PRE-TEST PASSENGER SIDE REAR PILLAR
A-17	POST-TEST DRIVER SIDE A-PILLAR
A-18	POST-TEST DRIVER FRONT HEADER
A-19	POST-TEST DRIVER SIDE SIDE RAIL
A-20	POST-TEST DRIVER SIDE B-PILLAR
A-21	POST-TEST DRIVER SIDE REAR PILLAR
A-22	POST-TEST PASSENGER SIDE A-PILLAR
A-23	POST-TEST PASSENGER FRONT HEADER
A-24	POST-TEST PASSENGER SIDE SIDE RAIL
A-25	POST-TEST PASSENGER SIDE B-PILLAR
A-26	POST-TEST PASSENGER SIDE REAR PILLAR



Figure A-1 : LEFT SIDE VIEW OF VEHICLE



Figure A-2 : RIGHT SIDE VIEW OF VEHICLE



Figure A-3 : 3/4 FRONTAL VIEW FROM RIGHT SIDE OF VEHICLE



Figure A-4 : 3/4 REAR VIEW FROM LEFT SIDE OF VEHICLE



Figure A-5 : VEHICLE'S CERTIFICATION LABEL



Figure A-6 : VEHICLE'S TIRE INFORMATION LABEL



Figure A-7 : PRE-TEST DRIVER SIDE A-PILLAR



Figure A-8 : PRE-TEST DRIVER SIDE FRONT HEADER



Figure A-9 : PRE-TEST DRIVER SIDE SIDE RAIL



Figure A-10 : PRE-TEST DRIVER SIDE B-PILLAR



Figure A-11 : PRE-TEST DRIVER SIDE REAR PILLAR



Figure A-12 : PRE-TEST PASSENGER SIDE A-PILLAR



Figure A-13 : PRE-TEST PASSENGER SIDE FRONT HEADER



Figure A-14 : PRE-TEST PASSENGER SIDE SIDE RAIL



Figure A-15 : PRE-TEST PASSENGER SIDE B-PILLAR



Figure A-16 : PRE-TEST PASSENGER SIDE REAR PILLAR



Figure A-17 : POST-TEST DRIVER SIDE A-PILLAR



Figure A-18 : POST-TEST DRIVER SIDE FRONT HEADER



Figure A-19 : POST-TEST DRIVER SIDE SIDE RAIL



Figure A-20 : POST-TEST DRIVER SIDE B-PILLAR



Figure A-21 : POST-TEST DRIVER SIDE REAR PILLAR



Figure A-22 : POST-TEST PASSENGER SIDE A-PILLAR



Figure A-23 : POST-TEST PASSENGER SIDE FRONT HEADER



Figure A-24 : POST-TEST PASSENGER SIDE SIDE RAIL



Figure A-25 : POST-TEST PASSENGER SIDE B-PILLAR



Figure A-26 : POST-TEST PASSENGER SIDE REAR PILLAR

APPENDIX B

PART 572L PERFORMANCE CALIBRATION IN SUPPORT OF VEHICLE SAFETY COMPLIANCE TESTING FOR OCCUPANT PROTECTION IN INTERIOR IMPACT

Appendix B contains the results from certification tests performed on the Free Motion Headforms utilized in this test program. The results indicate that the headforms meet all of the performance specifications given in 49 CFR Part 572 Subpart L.

The tests were conducted at the Dummy Certification Test Facility of Calspan Corporation. A summary of the test results are included in this Appendix.

**PART 572L
HEAD DROP PRE-TEST**

MANUFACTURER:		FIRST TECHNOLOGY SAFETY SYSTEMS	
SERIAL NUMBER:		0642	
CALIBRATION DATE:		March 10, 2006	
TEST PARAMETER	SPECIFICATION	TEST RESULTS	
TEMPERATURE	19°C to 26°C	22.2	
RELATIVE HUMIDITY	10% to 70%	36	
PEAK RESULTANT ACCELERATION	225 Gs to 275 Gs	240.2	
PEAK LATERAL ACCELERATION	15 Gs Maximum	8.9	
IS ACCELERATION CURVE UNIMODAL?	YES	YES	

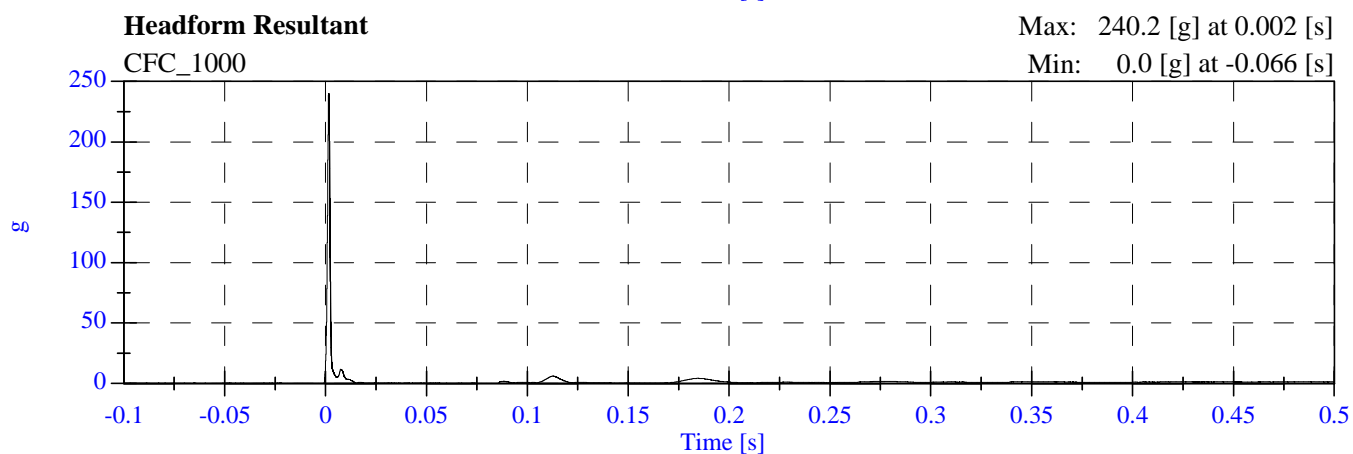
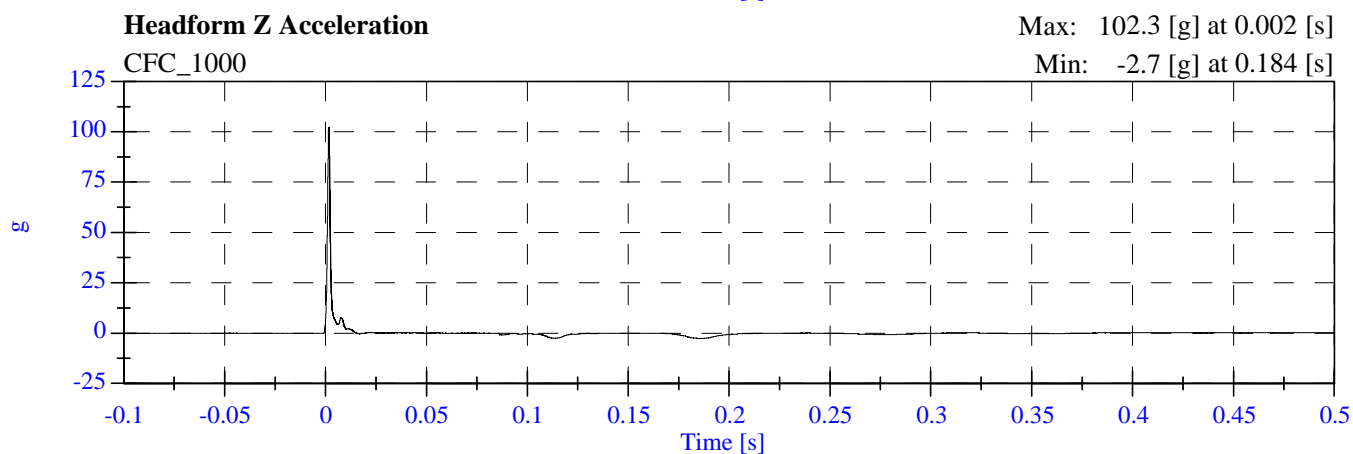
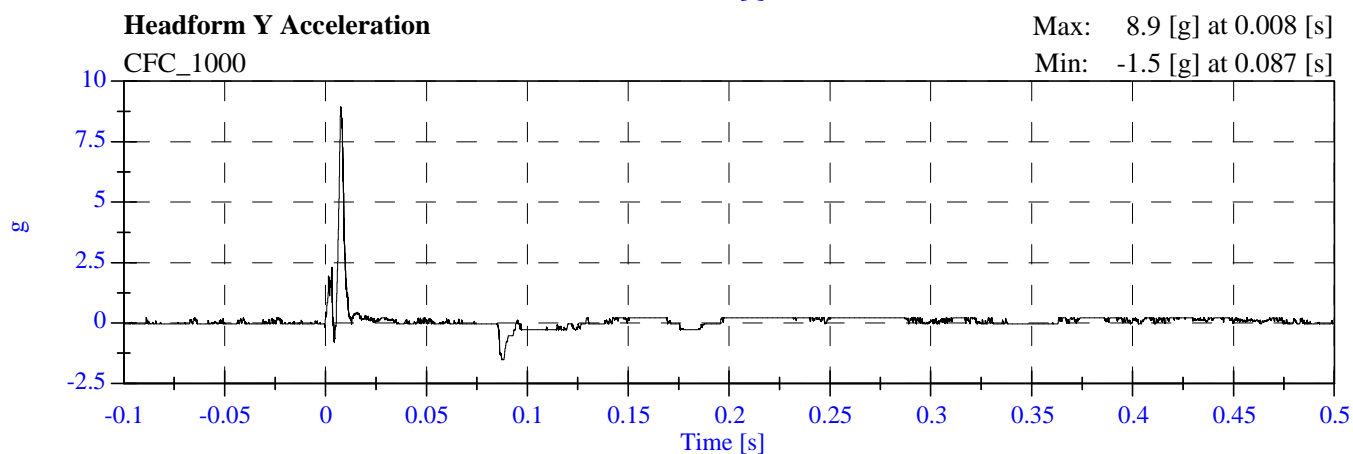
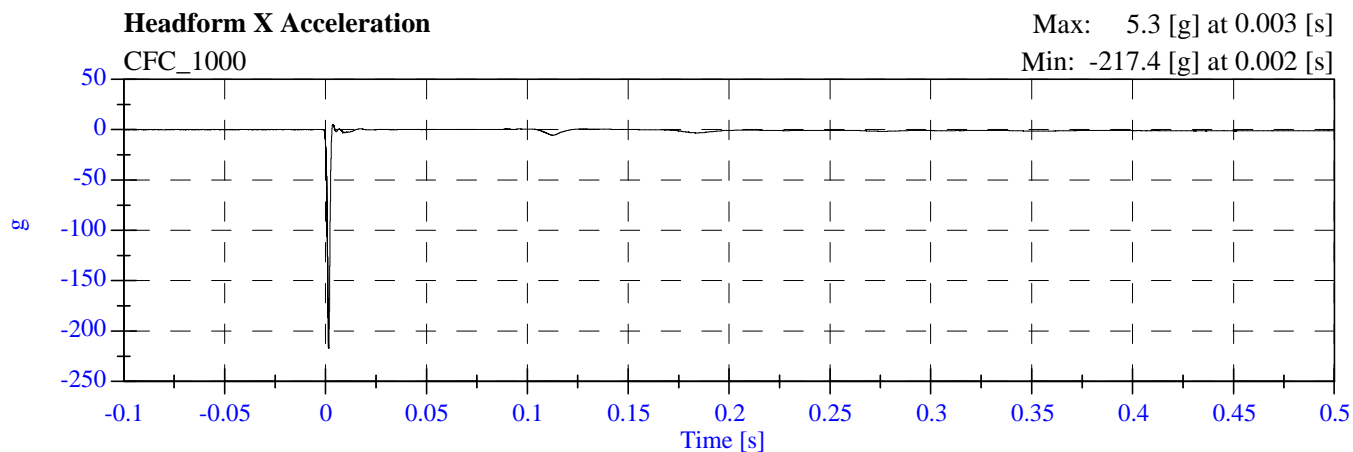
HEAD ACCELEROMETER CALIBRATION INFORMATION

I.D. NUMBER	MANUFACTURER	MODEL NUMBER	SERIAL NUMBER	DATE OF LAST CALIBRATION	DATE OF NEXT CALIBRATION
1 - LONGITUDINAL	ENDEVCO	7264-2000T	J24876	3/9/2006	9/9/2006
2 - LATERAL	ENDEVCO	7264-2000T	J33030	3/9/2006	9/9/2006
3 - VERTICAL	ENDEVCO	7264-2000T	J31009	3/9/2006	9/9/2006

REMARKS:

FMVSS 201U - Headform Calibration Drops

0642 - March 10, 2006



**PART 572L
HEAD DROP PRE-TEST**

MANUFACTURER:		DENTON ATD INC.	
SERIAL NUMBER:		0062	
CALIBRATION DATE:		March 10, 2006	
TEST PARAMETER	SPECIFICATION	TEST RESULTS	
TEMPERATURE	19°C to 26°C	22.2	
RELATIVE HUMIDITY	10% to 70%	36	
PEAK RESULTANT ACCELERATION	225 Gs to 275 Gs	247.2	
PEAK LATERAL ACCELERATION	15 Gs Maximum	8.4	
IS ACCELERATION CURVE UNIMODAL?	YES	YES	

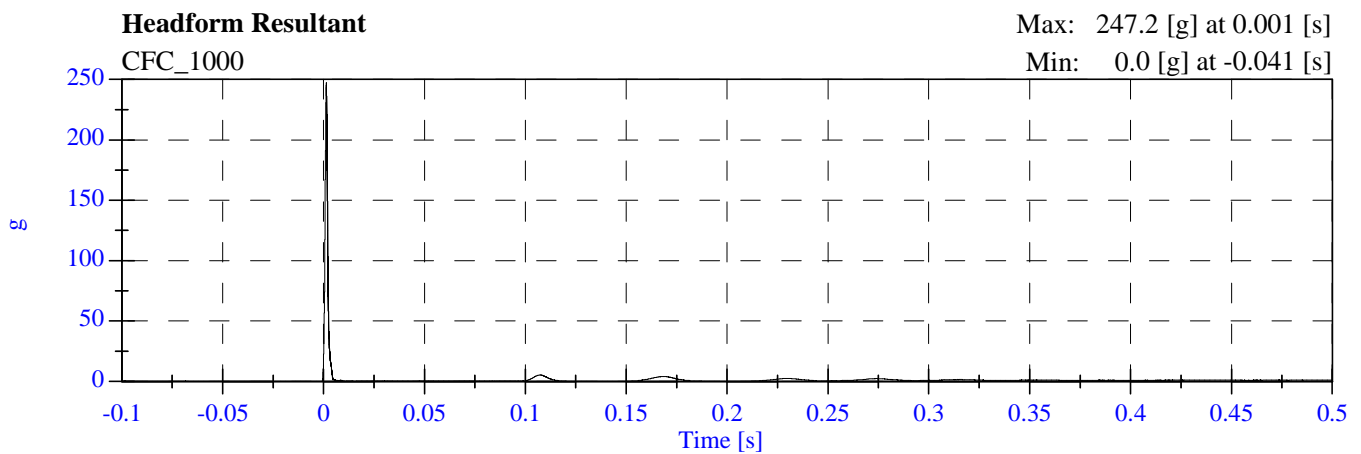
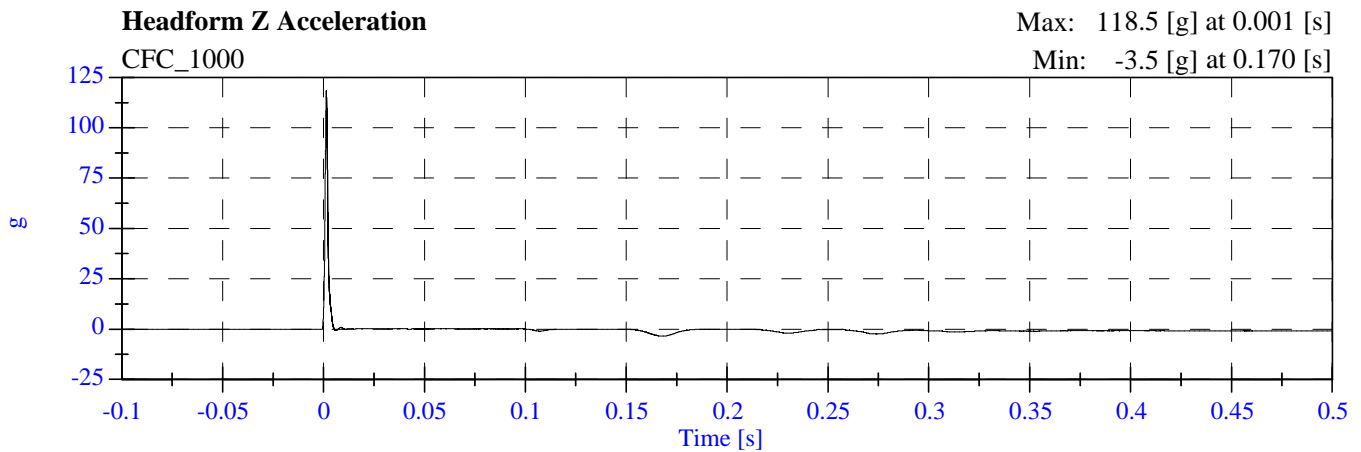
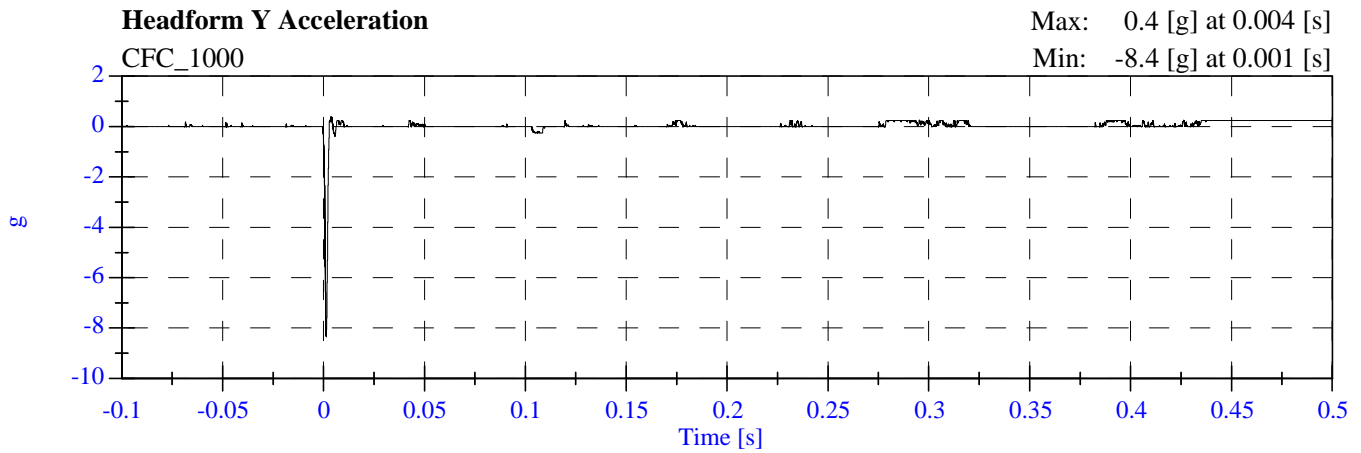
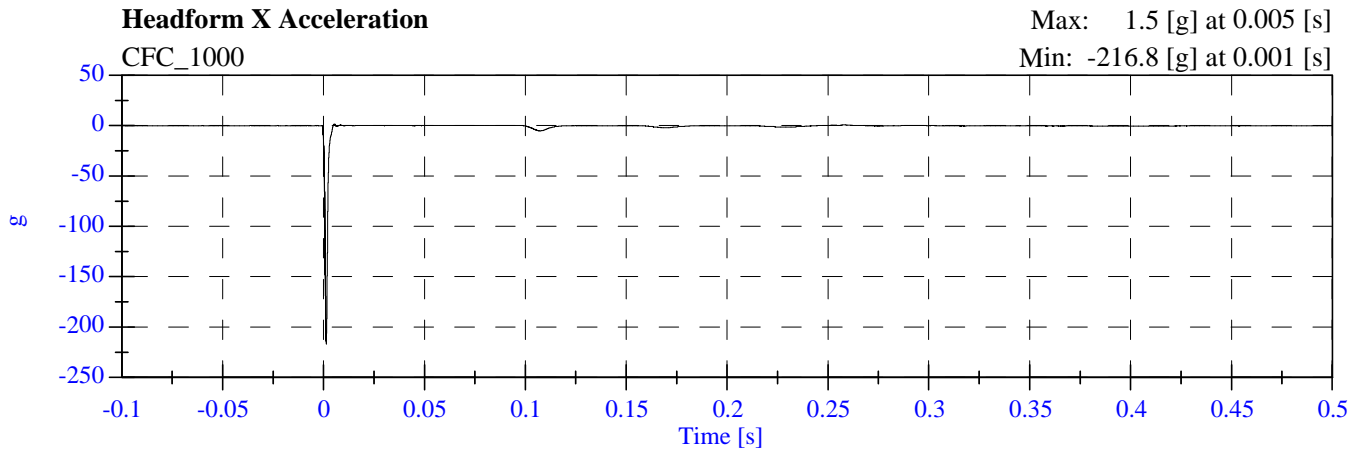
HEAD ACCELEROMETER CALIBRATION INFORMATION

I.D. NUMBER	MANUFACTURER	MODEL NUMBER	SERIAL NUMBER	DATE OF LAST CALIBRATION	DATE OF NEXT CALIBRATION
1 - LONGITUDINAL	ENDEVCO	7264-2000T	J33127	3/9/2006	9/9/2006
2 - LATERAL	ENDEVCO	7264-2000T	J33019	3/9/2006	9/9/2006
3 - VERTICAL	ENDEVCO	7264-2000T	J32782	3/9/2006	9/9/2006

REMARKS:

FMVSS 201U - Headform Calibration Drops

0062 - March 10, 2006



**PART 572L
HEAD DROP PRE-TEST**

MANUFACTURER:		FIRST TECHNOLOGY SAFETY SYSTEMS	
SERIAL NUMBER:		805	
CALIBRATION DATE:		March 10, 2006	
TEST PARAMETER	SPECIFICATION	TEST RESULTS	
TEMPERATURE	19°C to 26°C	22.2	
RELATIVE HUMIDITY	10% to 70%	36	
PEAK RESULTANT ACCELERATION	225 Gs to 275 Gs	243.0	
PEAK LATERAL ACCELERATION	15 Gs Maximum	2.7	
IS ACCELERATION CURVE UNIMODAL?	YES	YES	

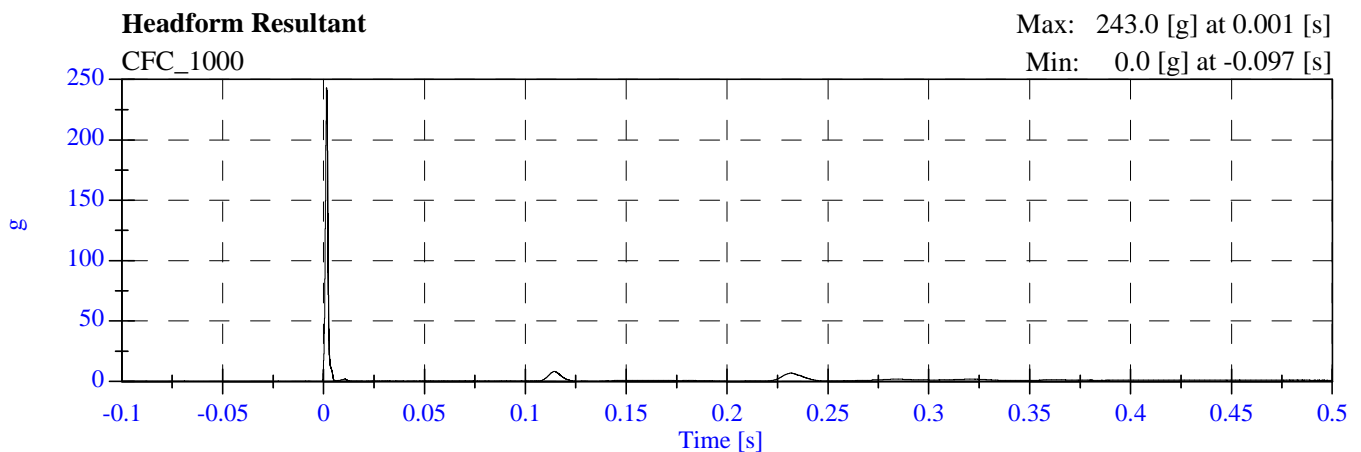
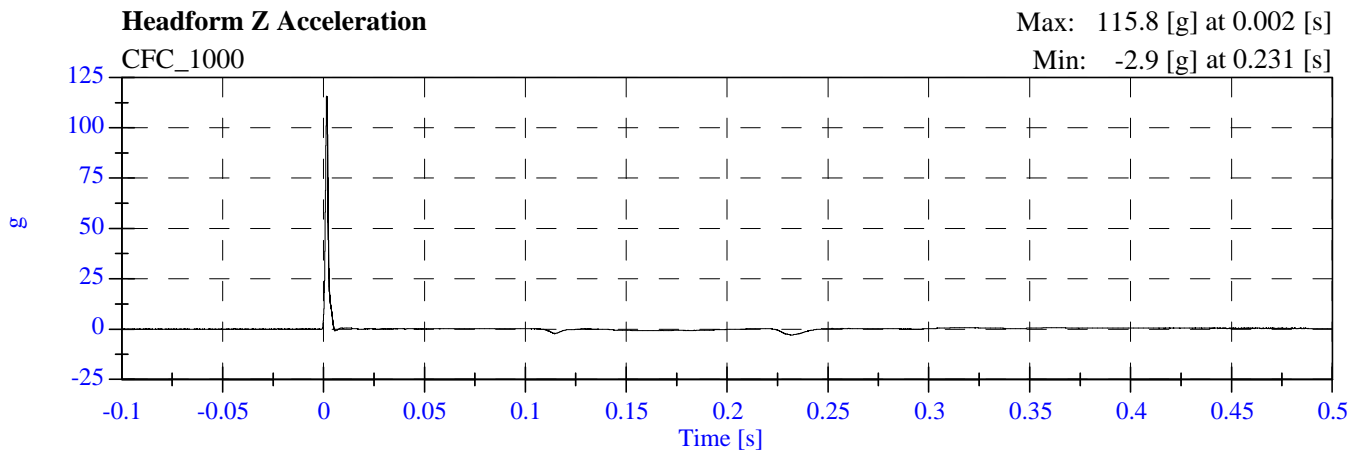
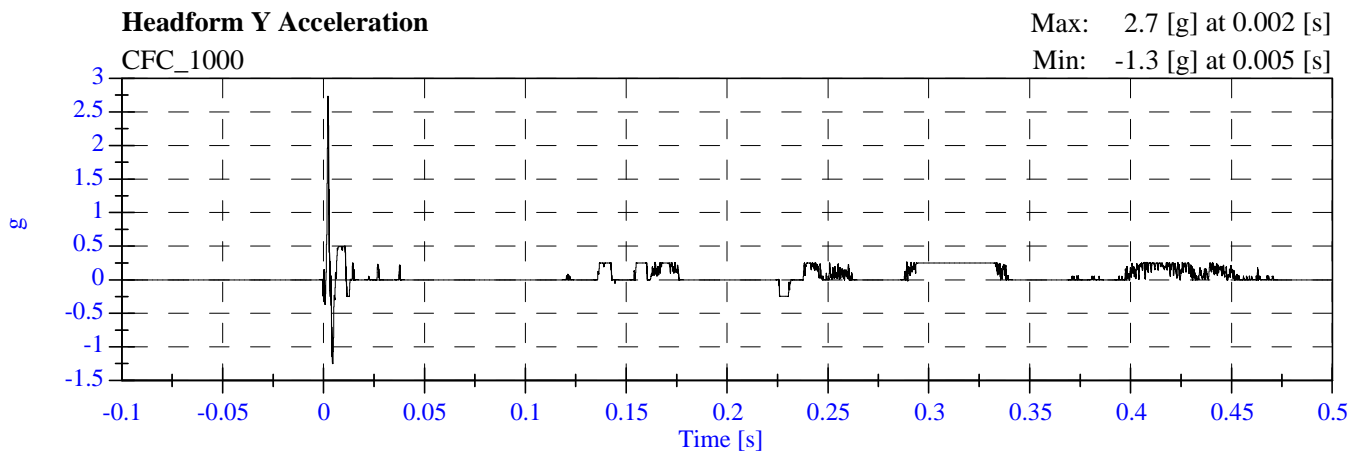
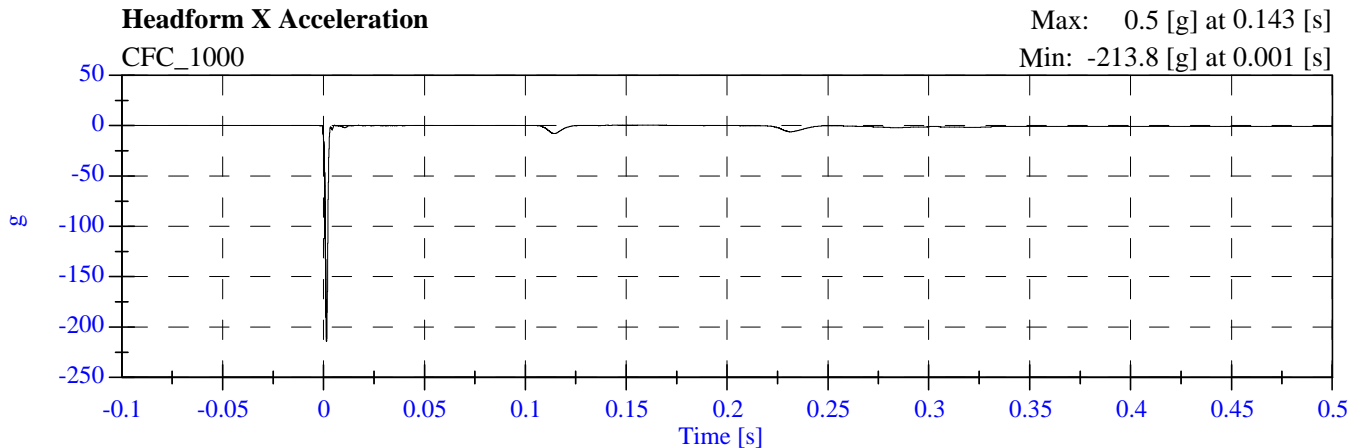
HEAD ACCELEROMETER CALIBRATION INFORMATION

I.D. NUMBER	MANUFACTURER	MODEL NUMBER	SERIAL NUMBER	DATE OF LAST CALIBRATION	DATE OF NEXT CALIBRATION
1 - LONGITUDINAL	ENDEVCO	7264-2000T	J38127	3/9/2006	9/9/2006
2 - LATERAL	ENDEVCO	7264-2000T	J37980	3/9/2006	9/9/2006
3 - VERTICAL	ENDEVCO	7264-2000T	J37854	3/9/2006	9/9/2006

REMARKS:

FMVSS 201U - Headform Calibration Drops

0805 - March 10, 2006



**PART 572L
HEAD DROP PRE-TEST**

MANUFACTURER:		DENTON ATD INC.	
SERIAL NUMBER:		0355	
CALIBRATION DATE:		March 10, 2006	
TEST PARAMETER	SPECIFICATION	TEST RESULTS	
TEMPERATURE	19°C to 26°C	22.2	
RELATIVE HUMIDITY	10% to 70%	36	
PEAK RESULTANT ACCELERATION	225 Gs to 275 Gs	236.2	
PEAK LATERAL ACCELERATION	15 Gs Maximum	2.0	
IS ACCELERATION CURVE UNIMODAL?	YES	YES	

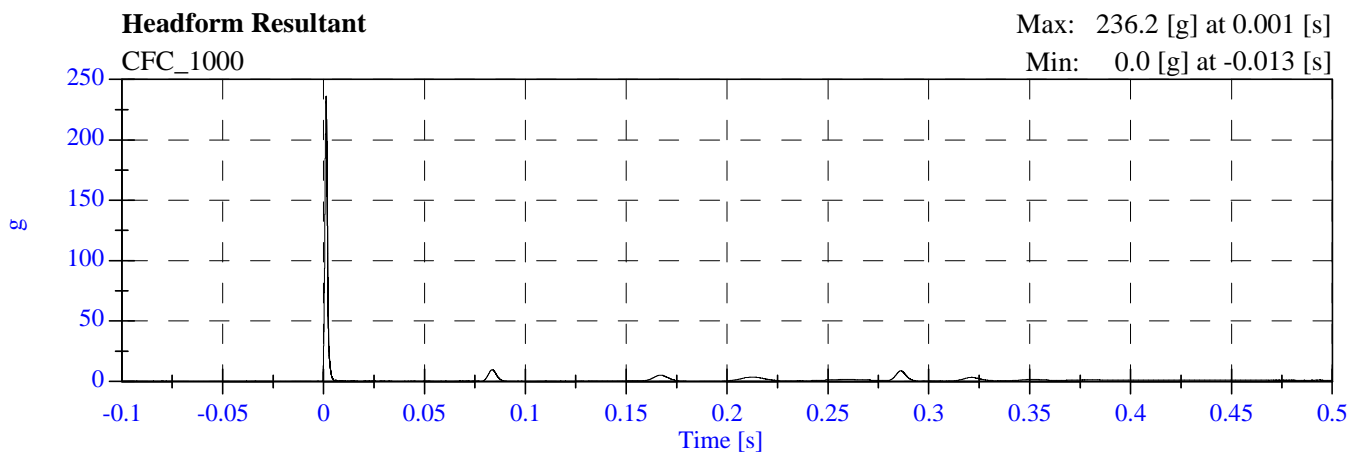
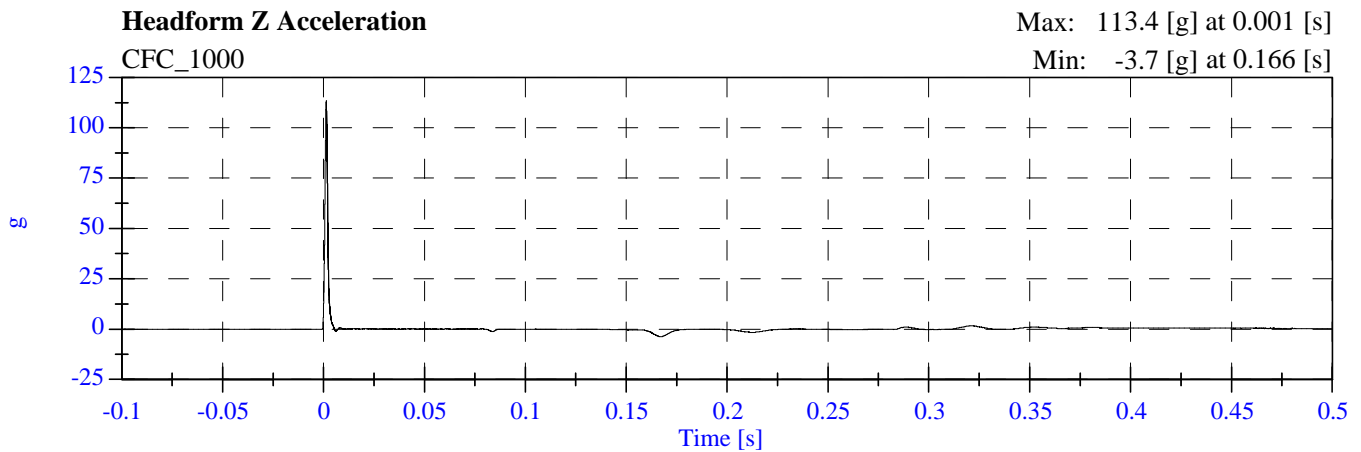
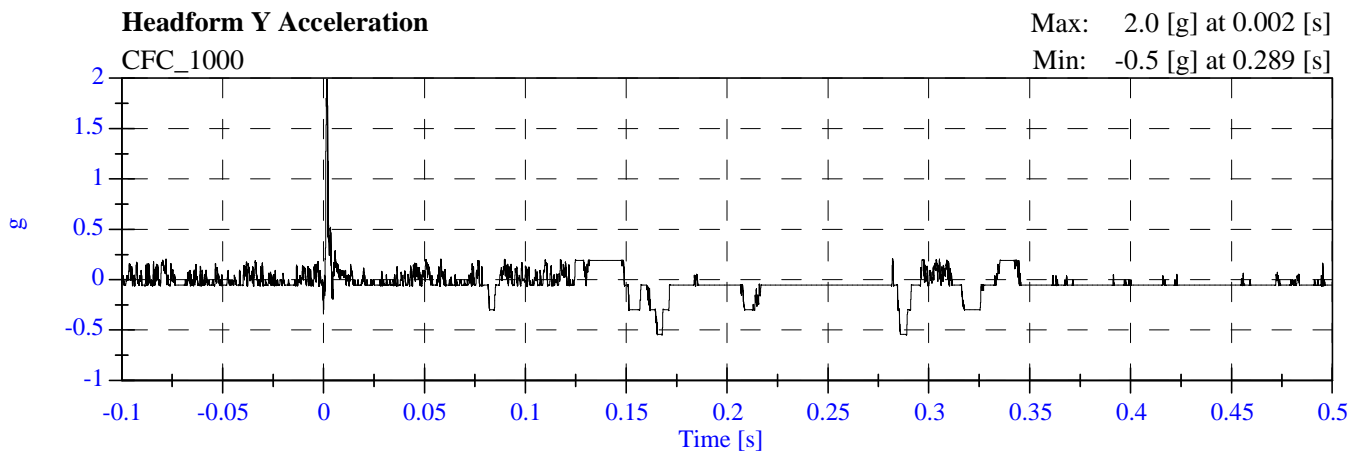
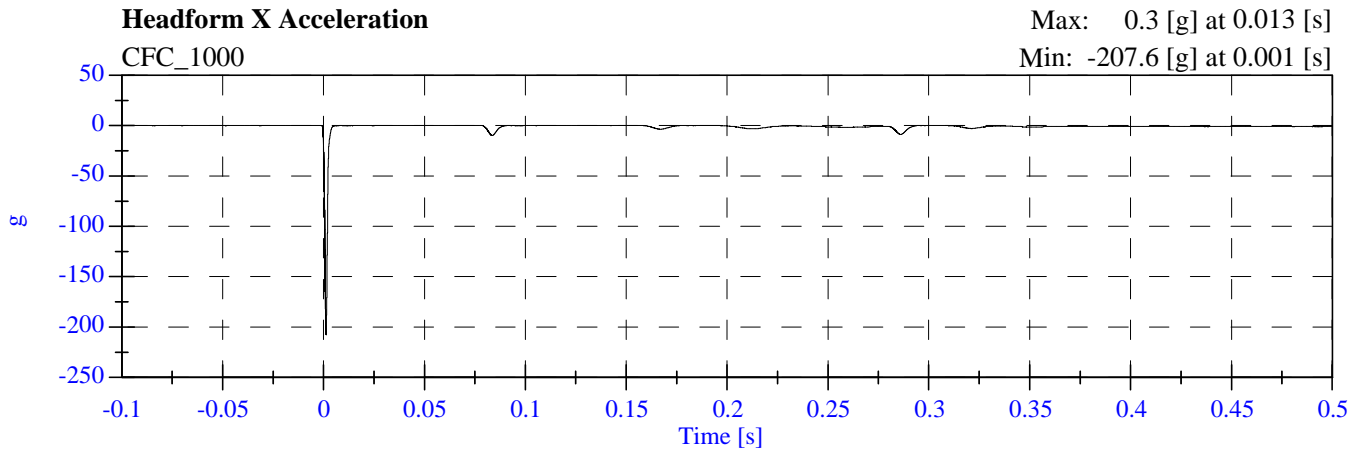
HEAD ACCELEROMETER CALIBRATION INFORMATION

I.D. NUMBER	MANUFACTURER	MODEL NUMBER	SERIAL NUMBER	DATE OF LAST CALIBRATION	DATE OF NEXT CALIBRATION
1 - LONGITUDINAL	ENDEVCO	7264-2000T	J28671	3/9/2006	9/9/2006
2 - LATERAL	ENDEVCO	7264-2000T	J32779	3/9/2006	9/9/2006
3 - VERTICAL	ENDEVCO	7264-2000T	J25854	3/9/2006	9/9/2006

REMARKS:

FMVSS 201U - Headform Calibration Drops

0355 - March 10, 2006



**PART 572L
HEAD DROP PRE-TEST**

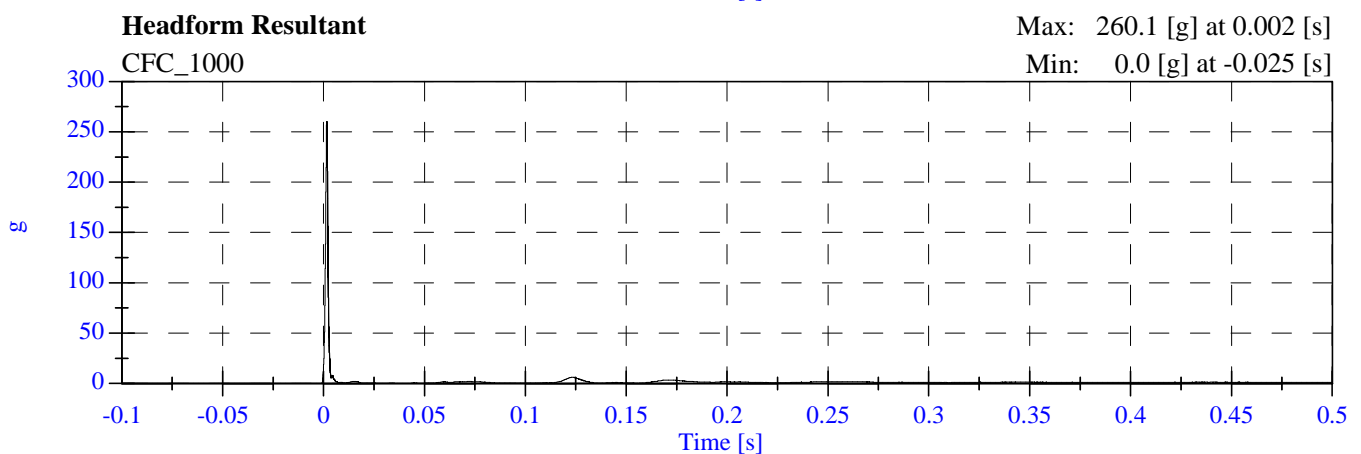
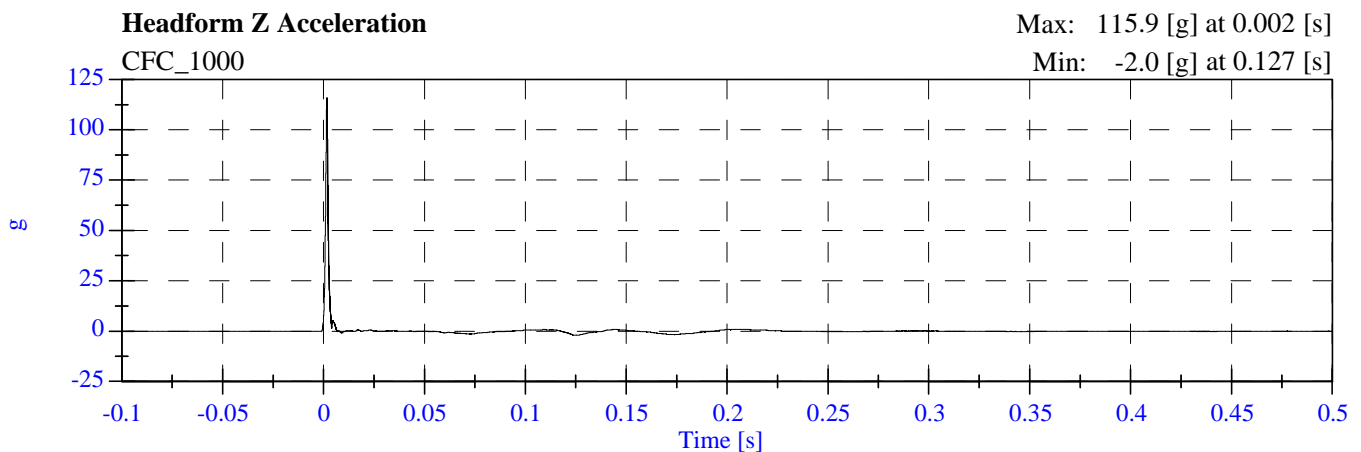
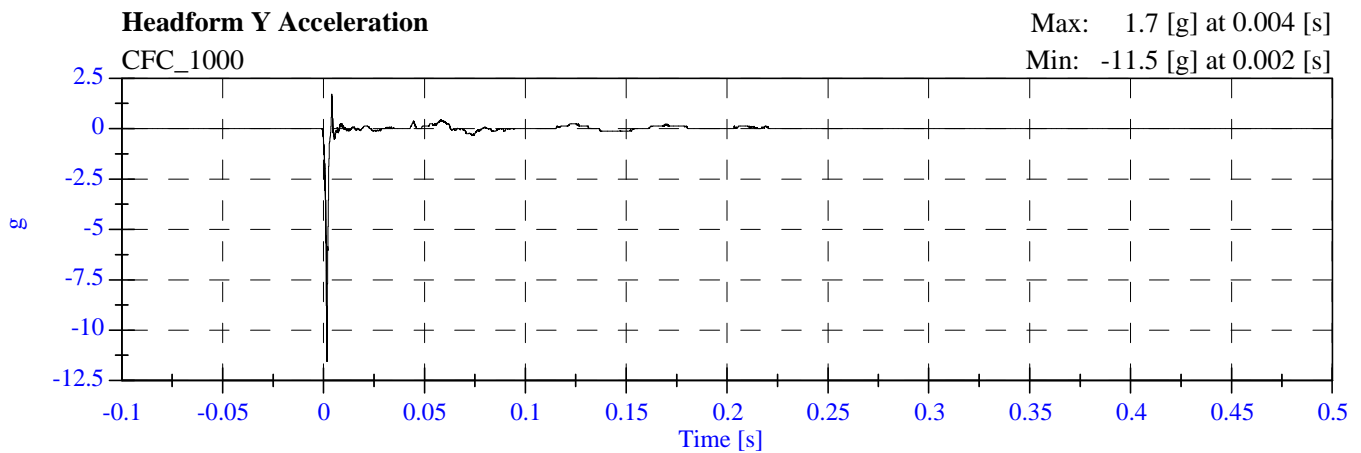
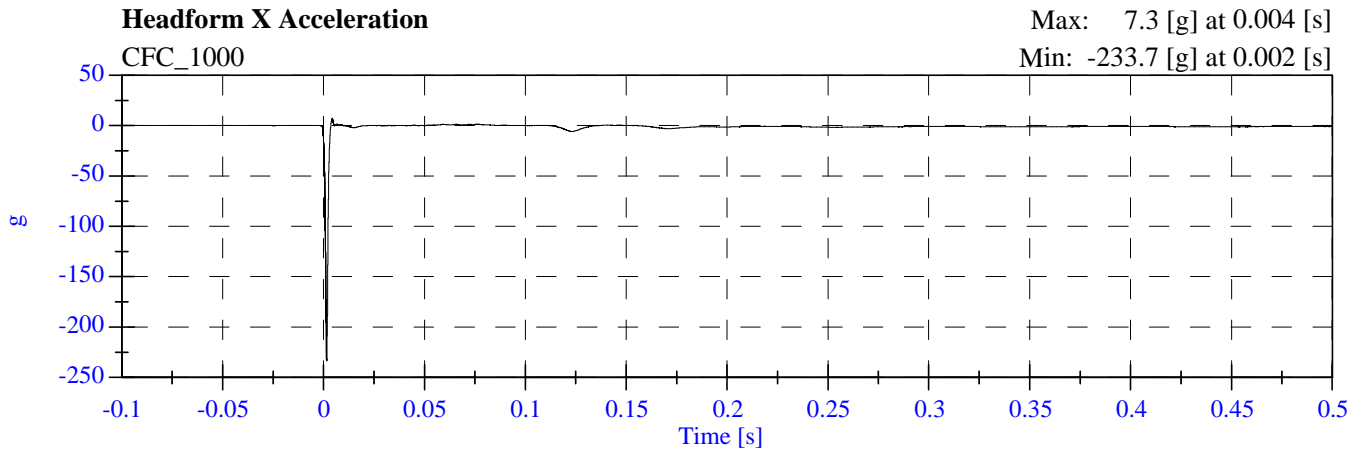
MANUFACTURER:		FIRST TECHNOLOGY SAFETY SYSTEMS	
SERIAL NUMBER:		1255	
CALIBRATION DATE:		March 10, 2006	
TEST PARAMETER	SPECIFICATION	TEST RESULTS	
TEMPERATURE	19°C to 26°C	22.2	
RELATIVE HUMIDITY	10% to 70%	36	
PEAK RESULTANT ACCELERATION	225 Gs to 275 Gs	260.1	
PEAK LATERAL ACCELERATION	15 Gs Maximum	11.5	
IS ACCELERATION CURVE UNIMODAL?	YES	YES	

HEAD ACCELEROMETER CALIBRATION INFORMATION

I.D. NUMBER	MANUFACTURER	MODEL NUMBER	SERIAL NUMBER	DATE OF LAST CALIBRATION	DATE OF NEXT CALIBRATION
1 - LONGITUDINAL	ENDEVCO	7264-2000T	J41006	3/9/2006	9/9/2006
2 - LATERAL	ENDEVCO	7264-2000T	J40994	3/9/2006	9/9/2006
3 - VERTICAL	ENDEVCO	7264-2000T	J41007	3/9/2006	9/9/2006

REMARKS:

FMVSS 201U - Headform Calibration Drops 1255 - March 10, 2006



**PART 572L
HEAD DROP POST-TEST**

MANUFACTURER:		FIRST TECHNOLOGY SAFETY SYSTEMS	
SERIAL NUMBER:		0642	
CALIBRATION DATE:		March 14, 2006	
TEST PARAMETER	SPECIFICATION	TEST RESULTS	
TEMPERATURE	19°C to 26°C	21.1	
RELATIVE HUMIDITY	10% to 70%	22	
PEAK RESULTANT ACCELERATION	225 Gs to 275 Gs	263.1	
PEAK LATERAL ACCELERATION	15 Gs Maximum	8.5	
IS ACCELERATION CURVE UNIMODAL?	YES	YES	

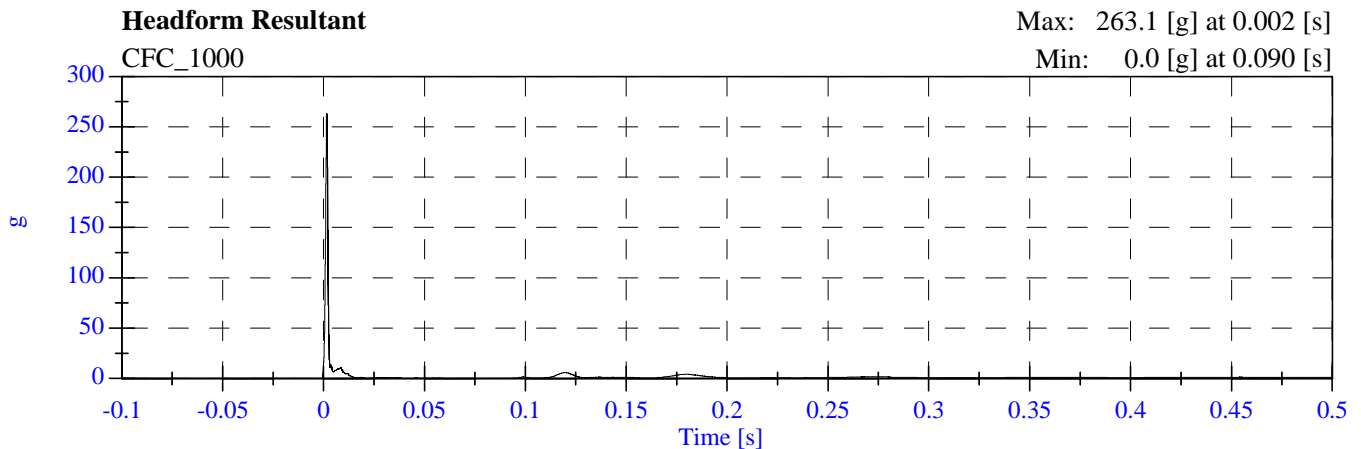
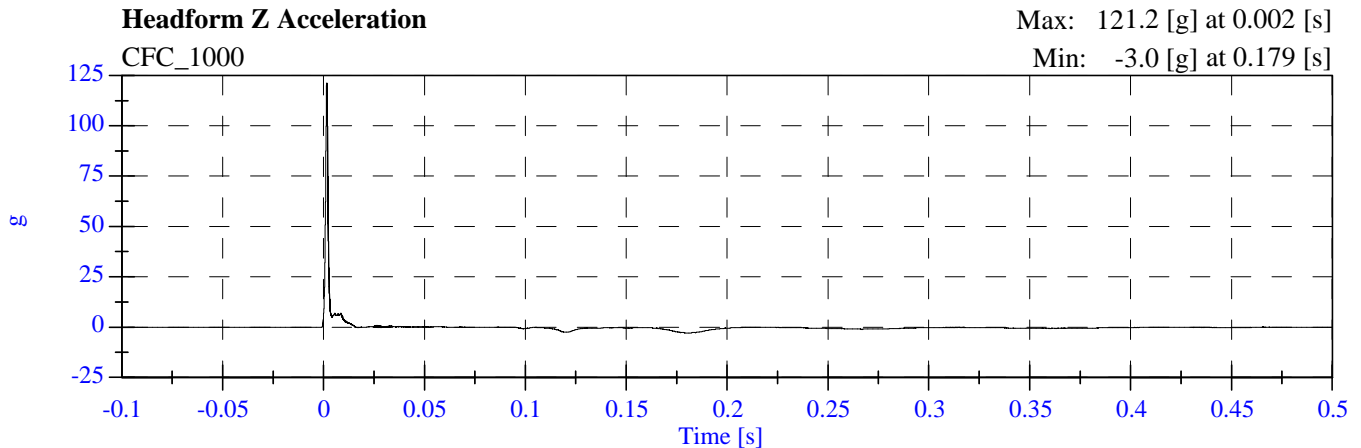
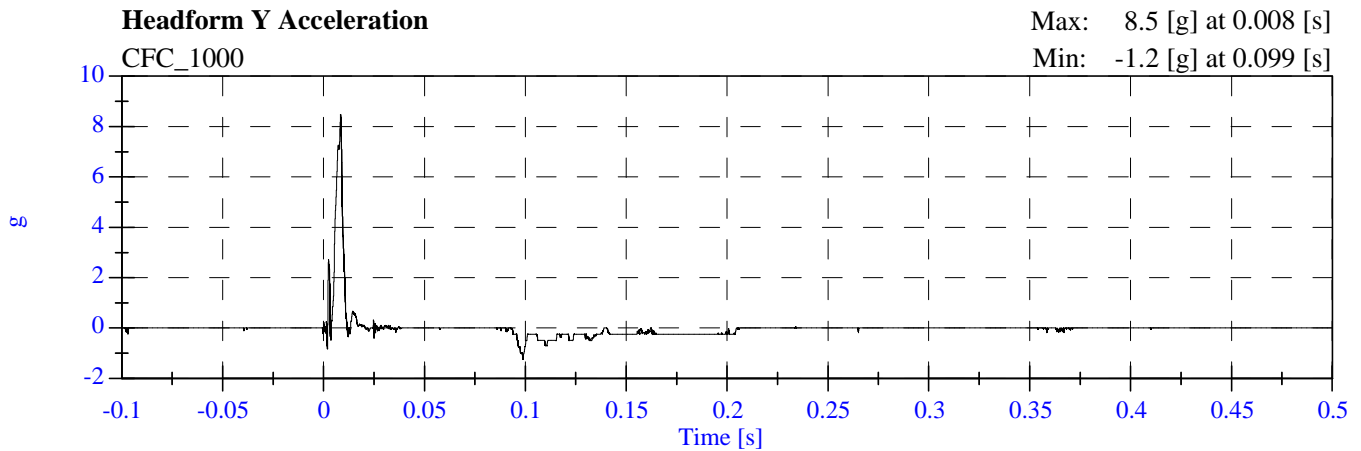
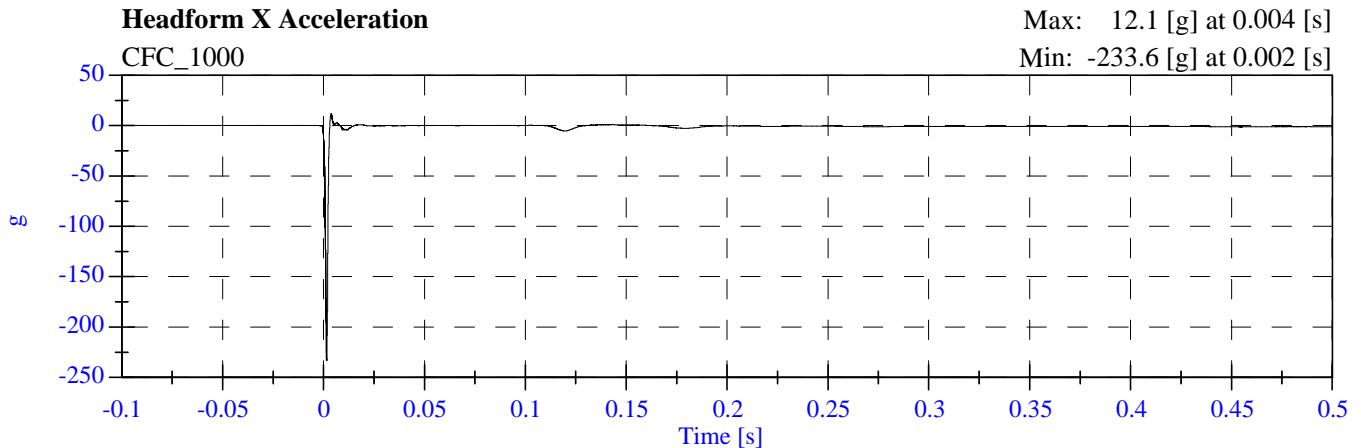
HEAD ACCELEROMETER CALIBRATION INFORMATION

I.D. NUMBER	MANUFACTURER	MODEL NUMBER	SERIAL NUMBER	DATE OF LAST CALIBRATION	DATE OF NEXT CALIBRATION
1 - LONGITUDINAL	ENDEVCO	7264-2000T	J24876	3/9/2006	9/9/2006
2 - LATERAL	ENDEVCO	7264-2000T	J33030	3/9/2006	9/9/2006
3 - VERTICAL	ENDEVCO	7264-2000T	J31009	3/9/2006	9/9/2006

REMARKS:

FMVSS 201U - Headform Calibration Drops

0642 - March 14, 2006



**PART 572L
HEAD DROP POST-TEST**

MANUFACTURER:		DENTON ATD INC.	
SERIAL NUMBER:		0062	
CALIBRATION DATE:		March 14, 2006	
TEST PARAMETER	SPECIFICATION	TEST RESULTS	
TEMPERATURE	19°C to 26°C	21.1	
RELATIVE HUMIDITY	10% to 70%	22	
PEAK RESULTANT ACCELERATION	225 Gs to 275 Gs	256.9	
PEAK LATERAL ACCELERATION	15 Gs Maximum	2.4	
IS ACCELERATION CURVE UNIMODAL?	YES	YES	

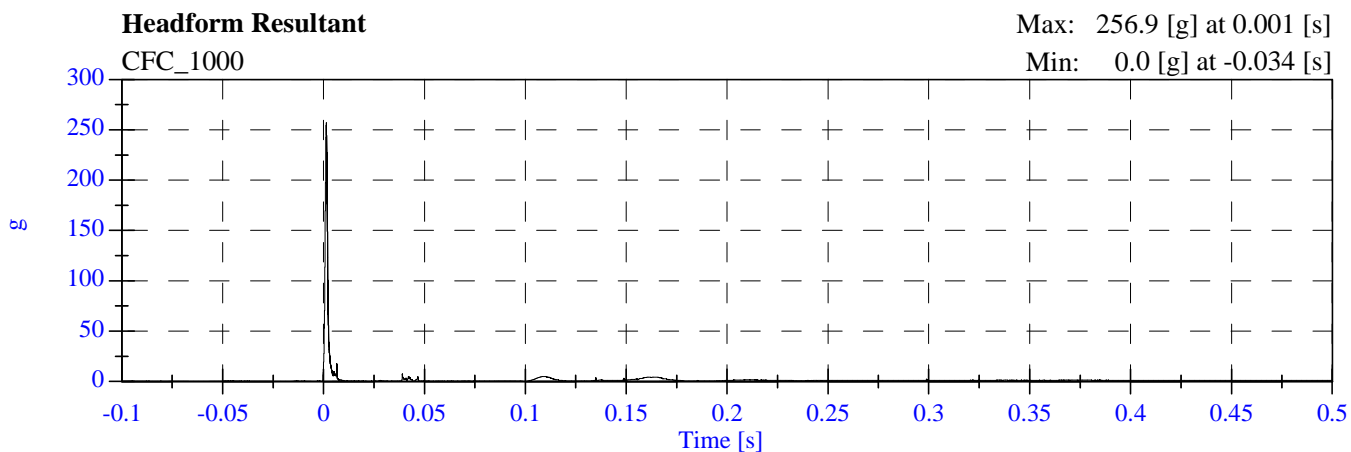
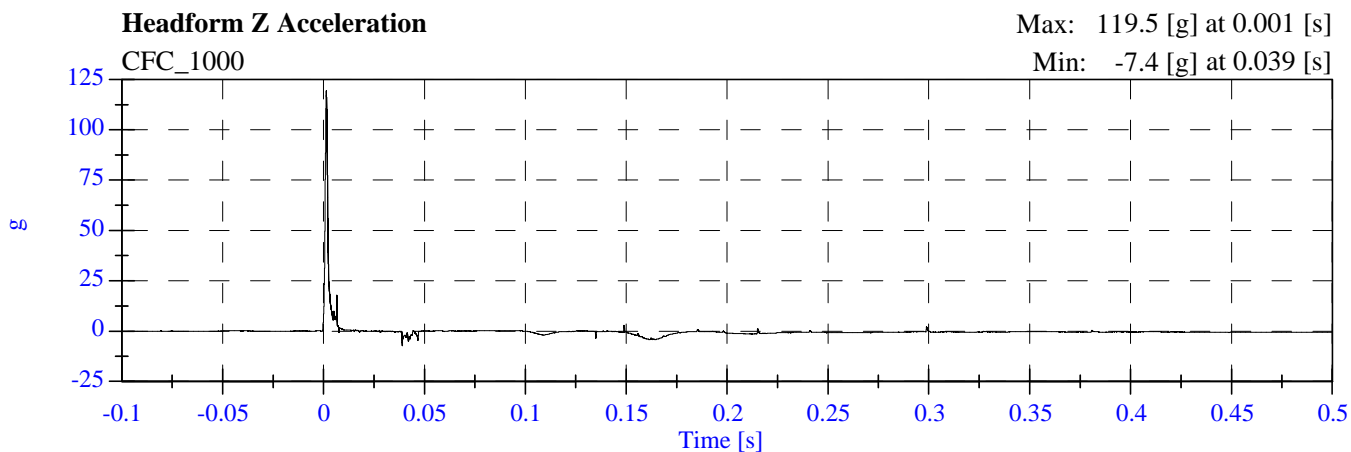
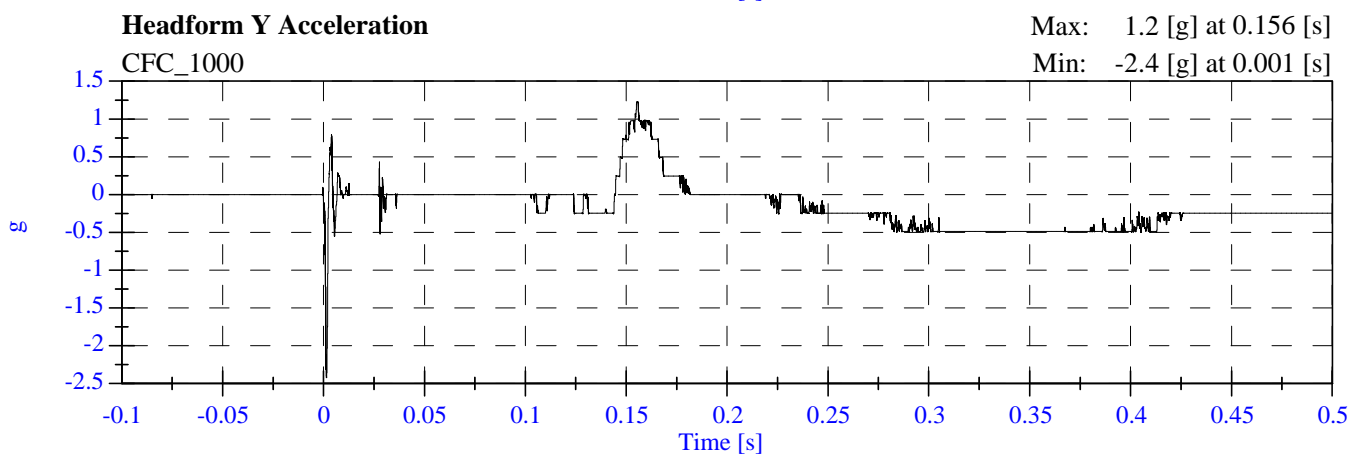
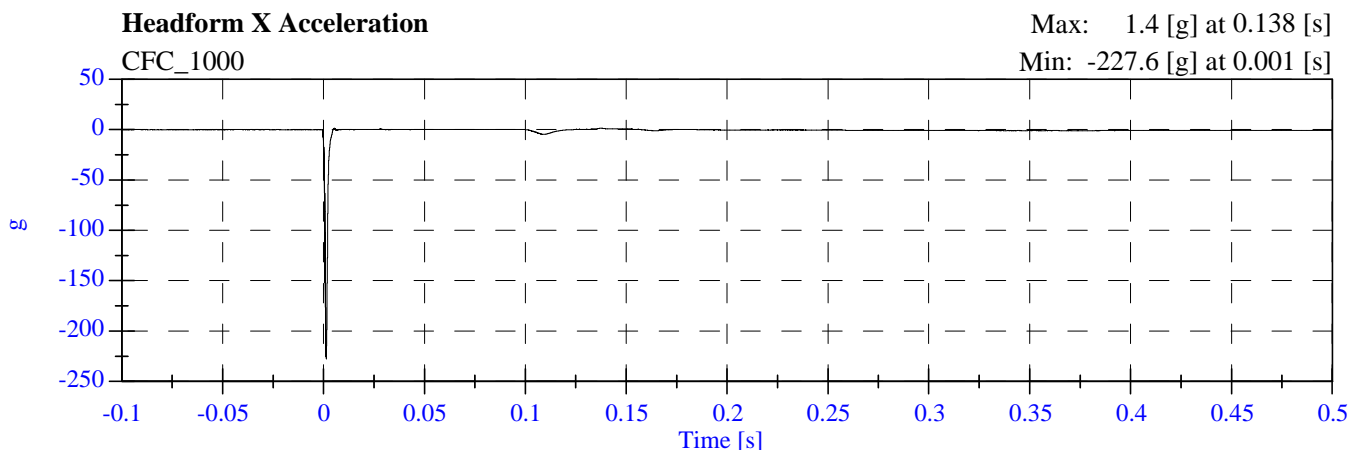
HEAD ACCELEROMETER CALIBRATION INFORMATION

I.D. NUMBER	MANUFACTURER	MODEL NUMBER	SERIAL NUMBER	DATE OF LAST CALIBRATION	DATE OF NEXT CALIBRATION
1 - LONGITUDINAL	ENDEVCO	7264-2000T	J33127	3/9/2006	9/9/2006
2 - LATERAL	ENDEVCO	7264-2000T	J33019	3/9/2006	9/9/2006
3 - VERTICAL	ENDEVCO	7264-2000T	J32782	3/9/2006	9/9/2006

REMARKS:

FMVSS 201U - Headform Calibration Drops

0062 - March 14, 2006



**PART 572L
HEAD DROP POST-TEST**

MANUFACTURER:		FIRST TECHNOLOGY SAFETY SYSTEMS	
SERIAL NUMBER:		805	
CALIBRATION DATE:		March 14, 2006	
TEST PARAMETER	SPECIFICATION	TEST RESULTS	
TEMPERATURE	19°C to 26°C	21.1	
RELATIVE HUMIDITY	10% to 70%	22	
PEAK RESULTANT ACCELERATION	225 Gs to 275 Gs	263.7	
PEAK LATERAL ACCELERATION	15 Gs Maximum	9.5	
IS ACCELERATION CURVE UNIMODAL?	YES	YES	

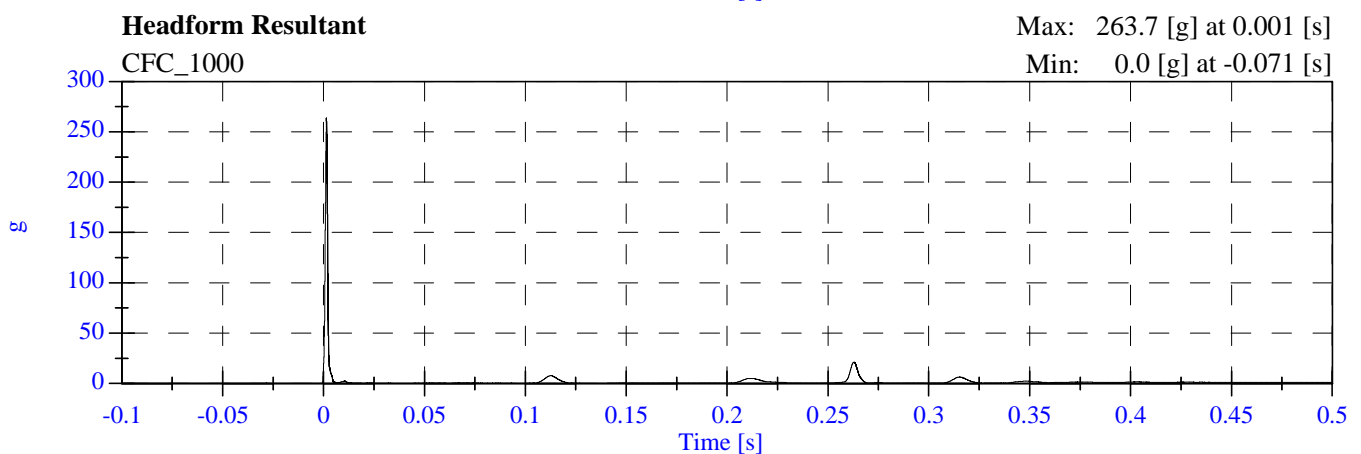
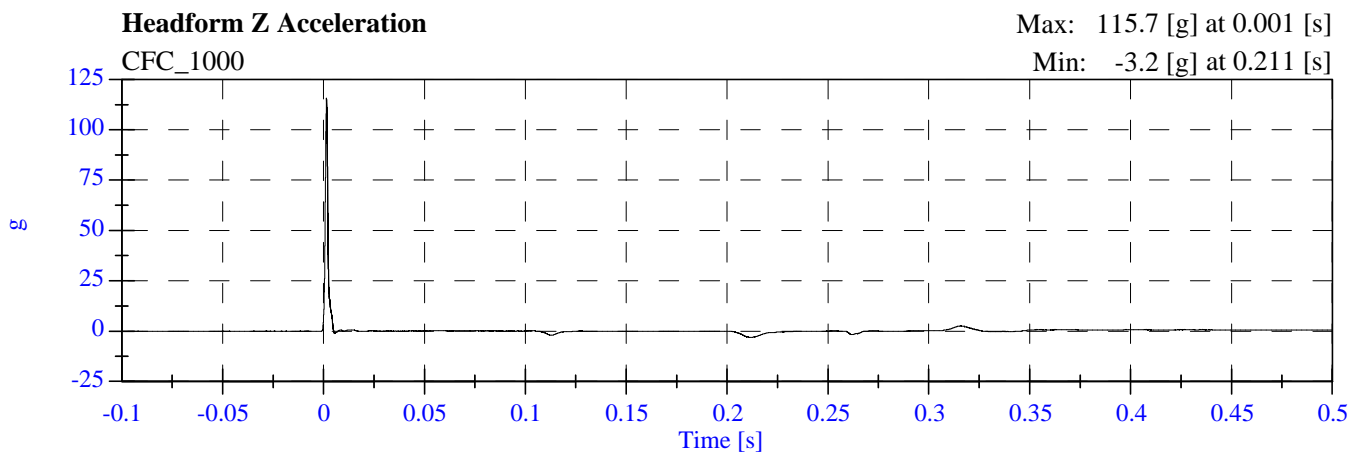
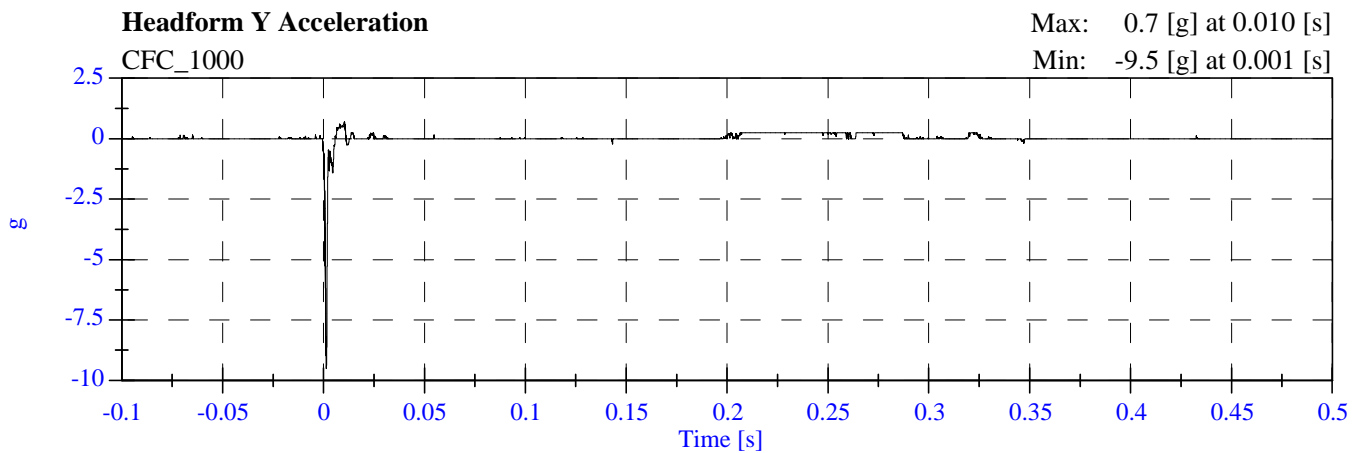
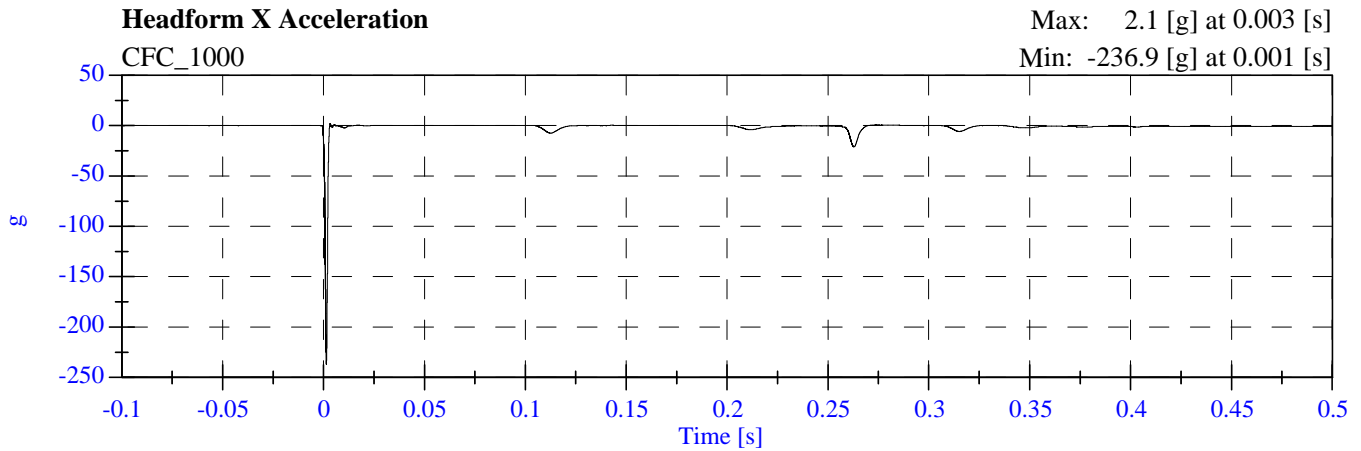
HEAD ACCELEROMETER CALIBRATION INFORMATION

I.D. NUMBER	MANUFACTURER	MODEL NUMBER	SERIAL NUMBER	DATE OF LAST CALIBRATION	DATE OF NEXT CALIBRATION
1 - LONGITUDINAL	ENDEVCO	7264-2000T	J38127	3/9/2006	9/9/2006
2 - LATERAL	ENDEVCO	7264-2000T	J37980	3/9/2006	9/9/2006
3 - VERTICAL	ENDEVCO	7264-2000T	J37854	3/9/2006	9/9/2006

REMARKS:

FMVSS 201U - Headform Calibration Drops

0805 - March 14, 2006



**PART 572L
HEAD DROP POST-TEST**

MANUFACTURER:		DENTON ATD INC.	
SERIAL NUMBER:		0355	
CALIBRATION DATE:		March 14, 2006	
TEST PARAMETER	SPECIFICATION	TEST RESULTS	
TEMPERATURE	19°C to 26°C	21.1	
RELATIVE HUMIDITY	10% to 70%	22	
PEAK RESULTANT ACCELERATION	225 Gs to 275 Gs	255.5	
PEAK LATERAL ACCELERATION	15 Gs Maximum	9.7	
IS ACCELERATION CURVE UNIMODAL?	YES	YES	

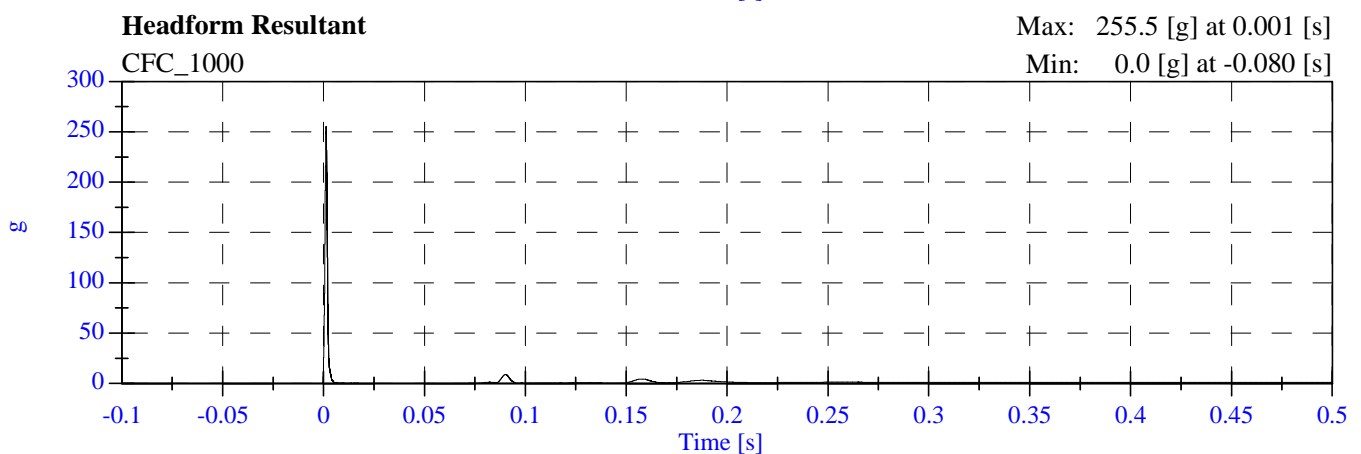
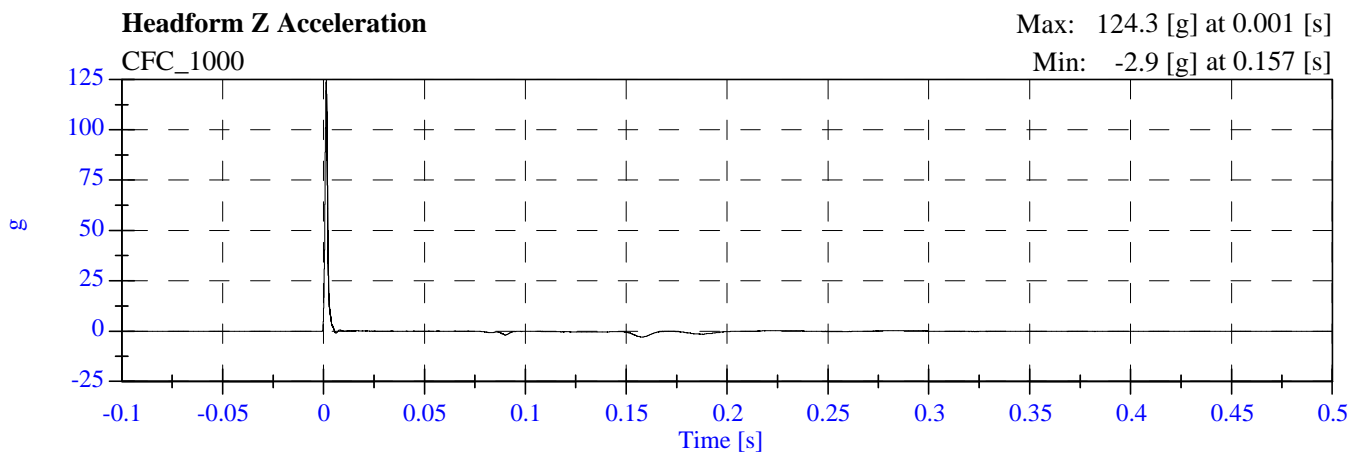
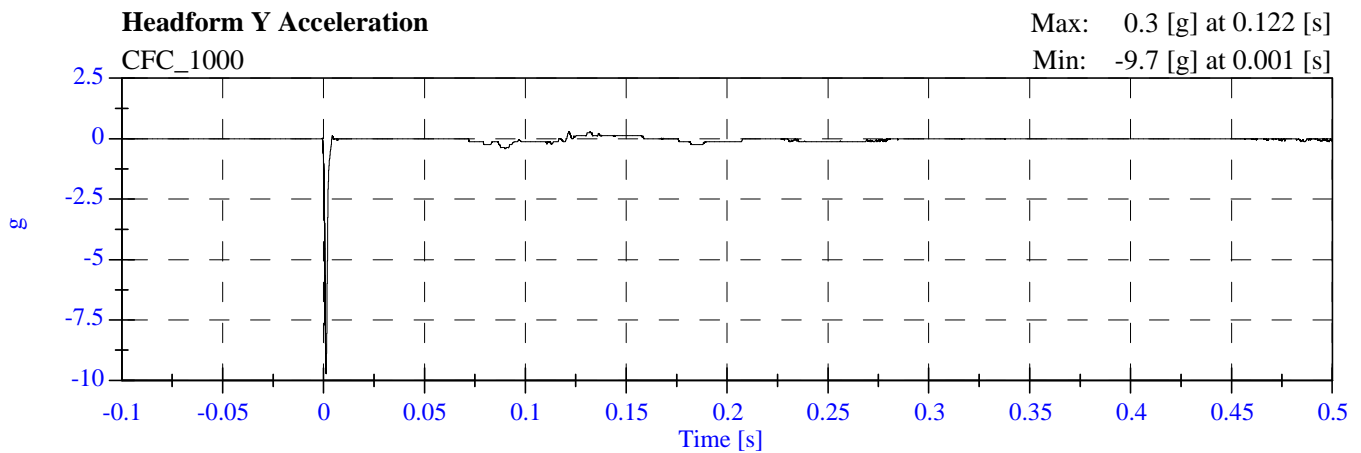
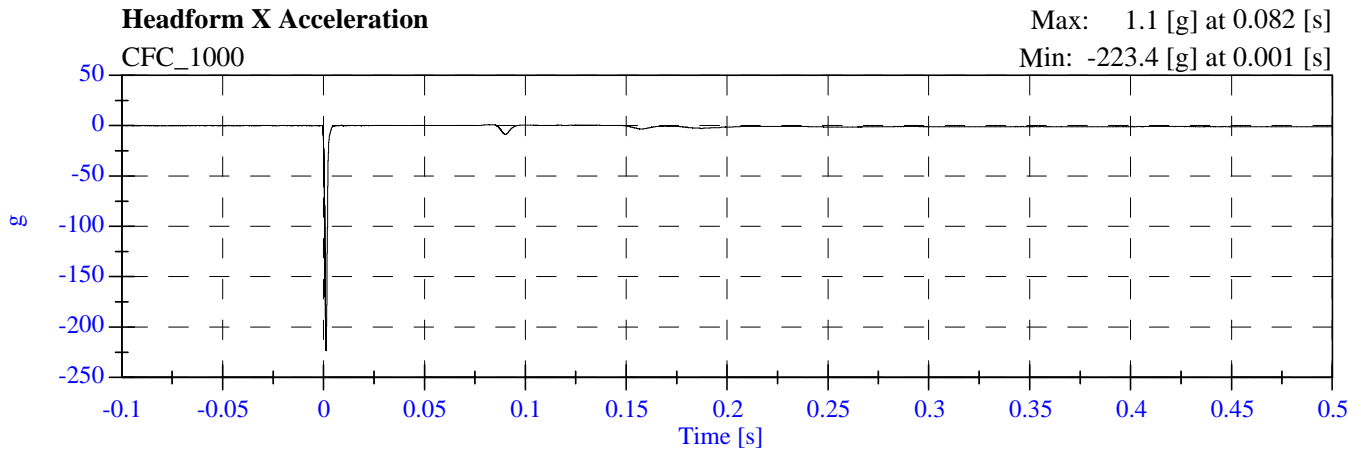
HEAD ACCELEROMETER CALIBRATION INFORMATION

I.D. NUMBER	MANUFACTURER	MODEL NUMBER	SERIAL NUMBER	DATE OF LAST CALIBRATION	DATE OF NEXT CALIBRATION
1 - LONGITUDINAL	ENDEVCO	7264-2000T	J28671	3/9/2006	9/9/2006
2 - LATERAL	ENDEVCO	7264-2000T	J32779	3/9/2006	9/9/2006
3 - VERTICAL	ENDEVCO	7264-2000T	J25854	3/9/2006	9/9/2006

REMARKS:

FMVSS 201U - Headform Calibration Drops

0355 - March 14, 2006



**PART 572L
HEAD DROP POST-TEST**

MANUFACTURER:		FIRST TECHNOLOGY SAFETY SYSTEMS	
SERIAL NUMBER:		1255	
CALIBRATION DATE:		March 14, 2006	
TEST PARAMETER	SPECIFICATION	TEST RESULTS	
TEMPERATURE	19°C to 26°C	21.1	
RELATIVE HUMIDITY	10% to 70%	22	
PEAK RESULTANT ACCELERATION	225 Gs to 275 Gs	266.0	
PEAK LATERAL ACCELERATION	15 Gs Maximum	9.0	
IS ACCELERATION CURVE UNIMODAL?	YES	YES	

HEAD ACCELEROMETER CALIBRATION INFORMATION

I.D. NUMBER	MANUFACTURER	MODEL NUMBER	SERIAL NUMBER	DATE OF LAST CALIBRATION	DATE OF NEXT CALIBRATION
1 - LONGITUDINAL	ENDEVCO	7264-2000T	J41006	3/9/2006	9/9/2006
2 - LATERAL	ENDEVCO	7264-2000T	J40994	3/9/2006	9/9/2006
3 - VERTICAL	ENDEVCO	7264-2000T	J41007	3/9/2006	9/9/2006

REMARKS:

FMVSS 201U - Headform Calibration Drops 1255 - March 14, 2006

