

REPORT NUMBER: 201UI-CAL-09-05

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

**NISSAN MOTOR COMPANY, LTD.
2009 NISSAN SENTRA**

NHTSA NUMBER: C95206

CALSPAN TEST NUMBER:

CALSPAN
TRANSPORTATION SCIENCES CENTER
P.O. BOX 400
BUFFALO, NEW YORK 14225



Test Date: February 3, 2009

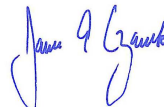
FINAL REPORT

PREPARED FOR:

U. S. DEPARTMENT OF TRANSPORTATION
National Highway Traffic Safety Administration
Enforcement
Office of Vehicle Safety Compliance
Mail Code: NVS-220, West Building 4th Floor
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Washington, DC 20590

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TECHNICAL REPORT STANDARD TITLE PAGE

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15. <i>Supplementary Notes</i>																							
16. <i>Abstract</i> Compliance tests were conducted on the subject vehicle, a 2009 Nissan Sentra, 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>None</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>None</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> </tr> </tbody> </table>						Target Point	Horizontal	Vertical	Velocity	HIC	HICd	None	-	-	-	-	-	None	-	-	-	-	-
Target Point	Horizontal	Vertical	Velocity	HIC	HICd																		
None	-	-	-	-	-																		
None	-	-	-	-	-																		
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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 2009 Nissan Sentra, NHTSA No. C95206, meets 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 2009 Nissan Sentra, NHTSA No. C95206, was tested at various upper interior locations by a 4.54 kg 50th percentile headform. A total of twelve (12) impacts were performed in this test series. The target area impacts were chosen by the NHTSA Contracting Officer's Technical Representative (COTR). A summary of test results can be found on Data Sheet 2-1, Summary of Upper Interior Head Impact Tests. The twelve (12) area chosen for testing were:

RP2	RP1	URRP	BP4	URRSR
BP1	SR2A	AP3	AP1	BP2
URBP	AP2			

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:	2009 Nissan Sentra
VIN:	3N1AB61E39L608724
DATE OF MANUFACTURE:	10/08 (SEE CERTIFICATION LABEL)
COLOR:	Gray

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	1053.683	-552.142	1143.878	1055.892	554.708	1142.098	114°	14°	18.37	209.8	324.7
AP2	872.029	-602.224	1056.158	865.353	603.743	1054.154	207°	50°	18.62	224.9	336
AP3	731.349	-631.319	999.353	728.798	627.305	999.962	131°	45°	18.69	323.1	410.1
BP1	1623.397	-504.517	1234.944	1626.495	503.394	1236.856	Relocated 1 circle		-	-	-
BP1 R1	1623.244	-518.478	1213.887	1626.829	517.058	1215.103	90°	5°	18.5	368.4	444.3
BP2	1586.445	-598.208	968.921	1589.960	597.307	975.704	270°	5°	23.43	680.7	679.9
BP3	1541.660	-620.812	991.675	1546.847	621.267	990.215					
BP4	1623.353	-656.957	871.865	1625.955	659.919	869.498	133°	-10°	23.68	565.8	593.3
FH1	987.817	-460.318	1180.229	987.536	460.565	1178.723	Relocated 1 circle		-	-	-
FH1 R1	984.510	-434.113	1180.954	983.836	435.070	1180.025	-	-	-	-	-
FH2	969.447	-311.427	1184.299	970.861	316.462	1181.838	-	-	-	-	-
RH	2460.981	-345.326	1164.011	2463.728	344.004	1164.875	-	-	-	-	-
RP1	2474.995	-513.580	1127.473	2474.834	516.051	1126.699	45°	4°	18.55	272.3	371.9
RP2	2480.335	-590.791	977.023	2481.229	595.186	974.350	59°	-8°	23.63	758.0	738.3
SR1	1201.275	-519.091	1205.280	1205.513	523.823	1217.370	Relocated 1 circle		-	-	-
SR1 R1	1201.952	-533.049	1189.972	1195.002	522.370	1170.385	-	-	-	-	-
SR2A	1353.444	-511.580	1226.193	1356.912	498.764	1215.719	Relocated 1 circle		-	-	-
SR2A R1	1354.019	-527.234	1203.923	1356.824	507.926	1191.812	90°	15°	18.34	117.5	255.0
SR2B	1323.144	-512.438	1223.782	1325.603	516.544	1229.131	Relocated 1 circle		-	-	-
SR2B R1	1322.880	-527.930	1201.749	1340.755	509.748	1189.388	-	-	-	-	-
SR3F	2009.390	-504.894	1153.922	2012.935	509.462	1151.784	-	-	-	-	-
SR3R	2188.543	-506.570	1132.714	2187.001	509.588	1133.231	-	-	-	-	-
URAP	1244.337	-393.347	1234.992	1224.692	372.392	1230.753	-	-	-	-	-
URBP	1623.966	-375.019	1268.078	1629.104	371.031	1269.960	270°	50°	23.56	818.4	783.8
URFSR	1426.312	-386.169	1265.494	1433.868	379.130	1267.359	-	-	-	-	-
URRP	2317.573	-385.072	1199.299	2311.808	376.124	1204.164	56°	50°	23.74	495.8	540.5
URRSR	2093.174	-397.117	1237.748	2051.682	386.148	1245.608	90°	30°	23.63	849.7	807.4

*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:				2009 Nissan Sentra					
VIN:				3N1AB61E39L608724					
Month & Year of Manufacture:				10/08 (SEE CERTIFICATION LABEL)					
Vehicle Body Color:				Gray					
Engine Data:	4	Cylinders;	-	CID;	2.0	Liters;	-	cc	
Engine Placement:	X		Longitudinal;	or		-		Lateral	
Transmission:	CVT	Speed;	-	Manual;	X	Automatic;	-	Overdrive	
Final Drive:	-	Rear Wheel Drive;	X	Front Wheel Drive;	-	Four Wheel Drive			
Odometer Reading:	40		km						
Options:	X	A/C;	X	Power Steering;	X	Pwr.Brakes;	X	Pwr. Windows	
Interior Trim Information :									
1. Adjustable seat belt anchorage on B-Pillar									
2. Side rail grab handles located on all outboard seating positions									
3. Non-sunroof									

DATA FROM TIRE PLACARD:									
Tire Pressure (at capacity);				230			kPa FRONT		
				230			kPa REAR		
Recommended Tire Size:				P205/60HR15					
Tires on Test Vehicle:		P205/60HR15		Manufacturer:			Bridgestone		
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)=				385		kg (A)			
No. of Occupants x 68 kg. =				340		kg (B)			
Rated Cargo/Luggage Weight (RCLW) =				45		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 =	416.0	kg	Left Rear =	256.5	kg
Right Front =	426.0	kg	Right Rear =	241.5	kg
TOTAL FRONT =	842.0	kg	TOTAL REAR =	498.0	kg
% of Total Weight =	62.8%	%	% of Total Weight =	37.2%	%
TOTAL WEIGHT =	1340.0		kg		

CALCULATION OF VEHICLE'S TARGET TEST WEIGHT:		
Total Test Vehicle Delivered Weight=	1340.0	kg (A)
+ Rated Cargo/Luggage Weight =	45.0	kg (B)
TEST VEHICLE TARGET WEIGHT =	1385.0	kg (A+B)

WEIGHT OF TEST VEHICLE (FULLY LOADED):					
Left Front =	416.0	kg	Left Rear =	276.5	kg
Right Front =	426.5	kg	Right Rear =	259.5	kg
TOTAL FRONT =	842.5	kg	TOTAL REAR =	536.0	kg
% of Total Weight =	61.1%	%	% of Total Weight =	38.9%	%
TOTAL TEST WEIGHT =	1378.5				
Weight of vehicle secured in test vehicles cargo area =	38.5		kg		

TEST VEHICLE ATTITUDE (all dimensions in millimeters):				
AS DELIVERED:	Left Front	713	Left Rear	709
	Right Front	709	Right Rear	703
FULLY LOADED:	Left Front	713	Left Rear	702
	Right Front	708	Right Rear	695
Test Vehicle Wheelbase:	-			millimeters

TEST VEHICLE PITCH AND ROLL ANGLES:				
AS DELIVERED:	PITCH ANGLES		ROLL ANGLES	
	Left Door Sill	↓1.0↑	Front Bumper	↑0.4↓
	Right Door Sill	↑1.0↓	Rear Bumper	↓0.5↑
FULLY LOADED:	PITCH ANGLES		ROLL ANGLES	
	Left Door Sill	↓0.8↑	Front Bumper	↑0.2↓
	Right Door Sill	↑0.8↓	Rear Bumper	↓0.4↑
AS TESTED:	PITCH ANGLES		ROLL ANGLES	
	Left Door Sill	↓0.8↑	Front Bumper	↑0.2↓
	Right Door Sill	↑0.8↓	Rear Bumper	↓0.5↑

DATA SHEET 2-3

APPROACH ANGLE LIMITS

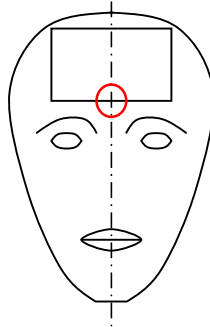
Target Code	Left Side				Target Code	Right Side			
	Horizontal Angles (deg.)		Vertical Angles (deg.)			Horizontal Angles (deg.)		Vertical Angles (deg.)	
	Minimum	Maximum	Minimum	Maximum		Minimum	Maximum	Minimum	Maximum
AP1	208	201	-5	14	AP1	109	152	-5	14
AP2	208	201	-5	50	AP2	109	152	-5	50
AP3	208	201	-5	45	AP3	109	152	-5	45
BP1	204	276	-10	5	BP1	84	156	-10	5
BP2	ANY		0	5	BP2	ANY		0	5
BP3	204	276	-10	-10	BP3	84	156	-10	-10
BP4	204	276	-10	-10	BP4	84	156	-10	-10
RP1	270	345	-10	4	RP1	15	90	-10	4
RP2	270	345	-10	-8	RP2	15	90	-10	-8
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	23	SR1	90		0	23
SR2A	270		0	15	SR2A	90		0	15
SR2B	270		0	26	SR2B	90		0	26
SR3F	270		0	24	SR3F	90		0	24
SR3R	270		0	24	SR3R	90		0	24
URAP	ANY		0	50	URAP	ANY		0	50
URBP	ANY		0	50	URBP	ANY		0	50
URRSR	ANY		0	30	URRSR	ANY		0	30
URRP	ANY		0	50	URRP	ANY		0	50

Note : BP2 target location – Seat belt anchorage

DATA SHEET 2-4

SUMMARY TARGET IMPACT LOCATION ON FMH

VEHICLE YEAR/MAKE/MODEL/STYLE:	2009 Nissan Sentra
VIN:	3N1AB61E39L608724
DATE OF MANUFACTURE:	10/08(SEE CERTIFICATION LABEL)
COLOR:	Gray



ã RIGHT SIDE OF FACE

TARGET	Distance Above Point 0 (mm)	Distance Over From Pt. O (mm)
RP2	9	29R
RP1	39	22L
URRP	46	11L
BP4	29	8L
URRSR	75	4L
BP1	25	13R
SR2A	5	6R
AP3	15	2R
AP1	6	23R
BP2	10	3L
URBP	46	0
AP2	20	2R

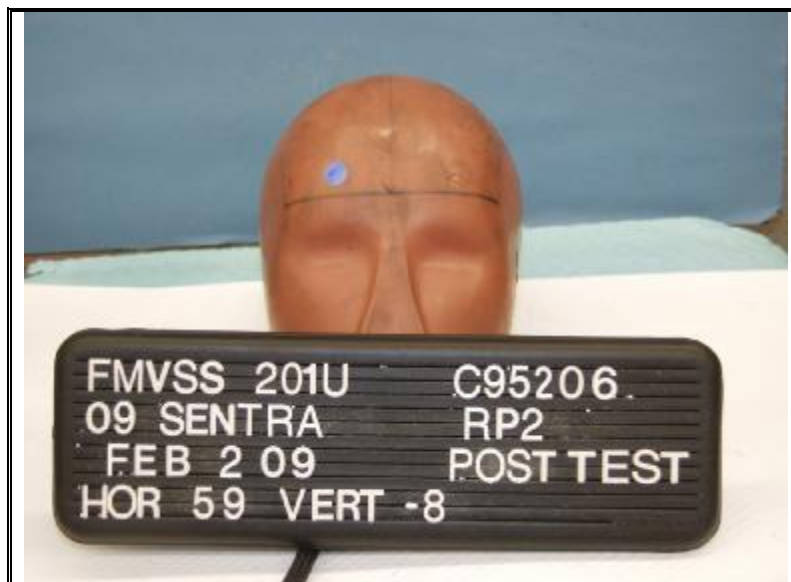
SECTION 3

SUMMARY OF TEST RESULTS AND DATA PLOTS

VEHICLE YEAR/MAKE/MODEL/STYLE:	2009 Nissan Sentra
VIN:	3N1AB61E39L608724
DATE OF MANUFACTURE:	10/08(SEE CERTIFICATION LABEL)
COLOR:	Gray

Test Number:	01
Test Date:	02/02/09
Target Location:	REAR PILLAR
Target Code:	RP2
Horizontal Impact Angle:	59°
Vertical Impact Angle:	-8°
Ambient Temperature:	20°C
Relative Humidity:	23
Time of Impact:	8:55
Headform Number:	0062

Impact Point Description (from lower midpoint on midsagittal line)					
On Centerline	29	<input checked="" type="checkbox"/>	mm right	<input type="checkbox"/>	mm left
On Centerline	9				mm up



POST-IMPACT RP2 HEADFORM

Free Motion HIC	758.0
HIC(d)	738.3
Impact Velocity (kph)	23.63
HIC T1 (msec)	1.6
HIC T2 (msec)	10.1

FMVSS 201U 09 Nissan Sentra C95206 - RP2

FMH Headform 0062

Location: RP2

Test Date: February 02, 2009

Work File: RP2

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

Lab Temperature: 20 C

HICd: 738.3

Lab Humidity: 23 %

HIC (36ms): 758.0

Velocity at Impact: 23.63 KPH

t1: 1.6 msec

t2: 10.1 msec

Free Flight Distance: 221.56 mm

Duration: 8.5 msec

Average Acceleration: 8.9 g

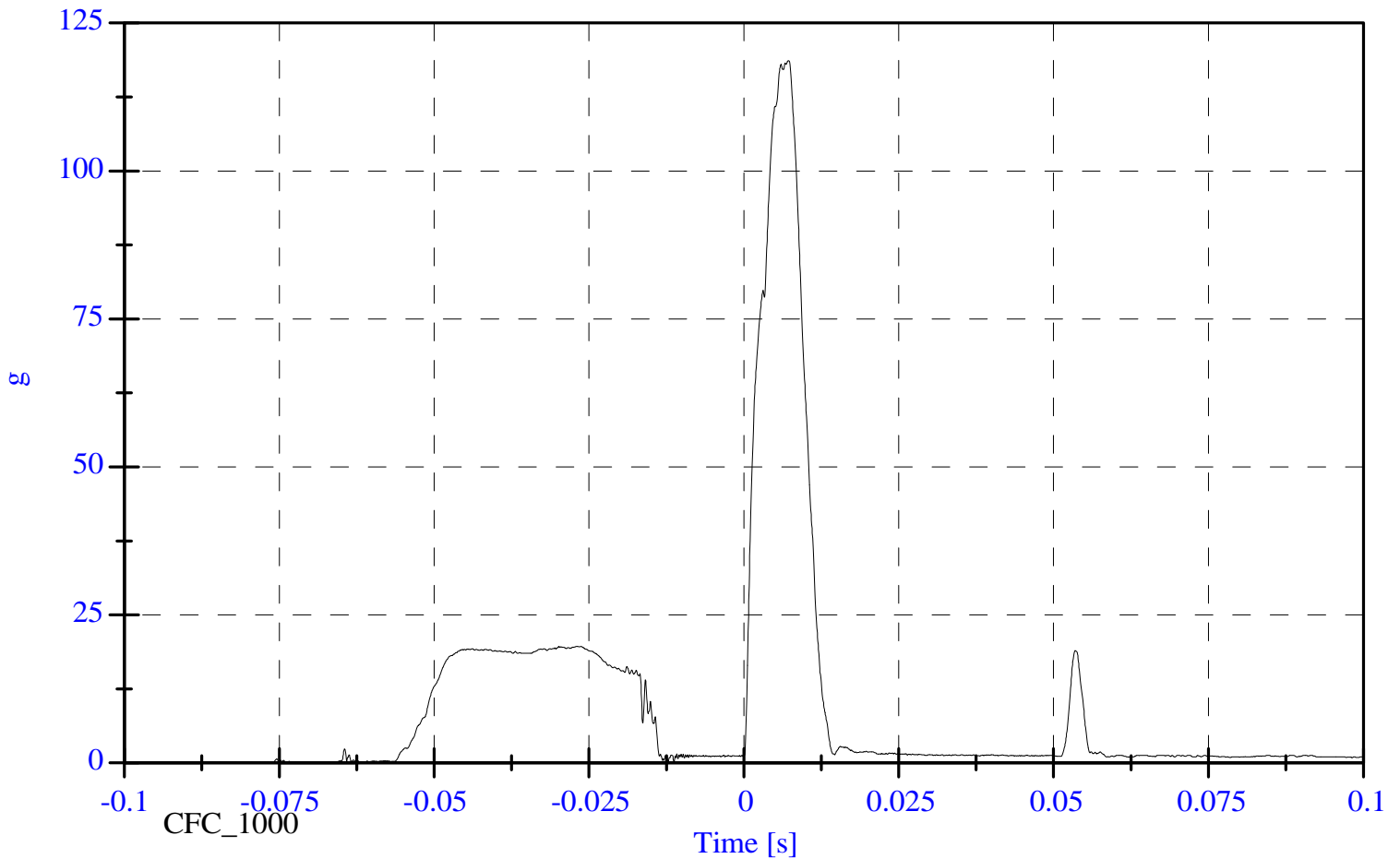
Maximum: 118.7 g

FMVSS 201U 09 Nissan Sentra

Headform Resultant

Max: 118.7 [g] at 0.007 [s]

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

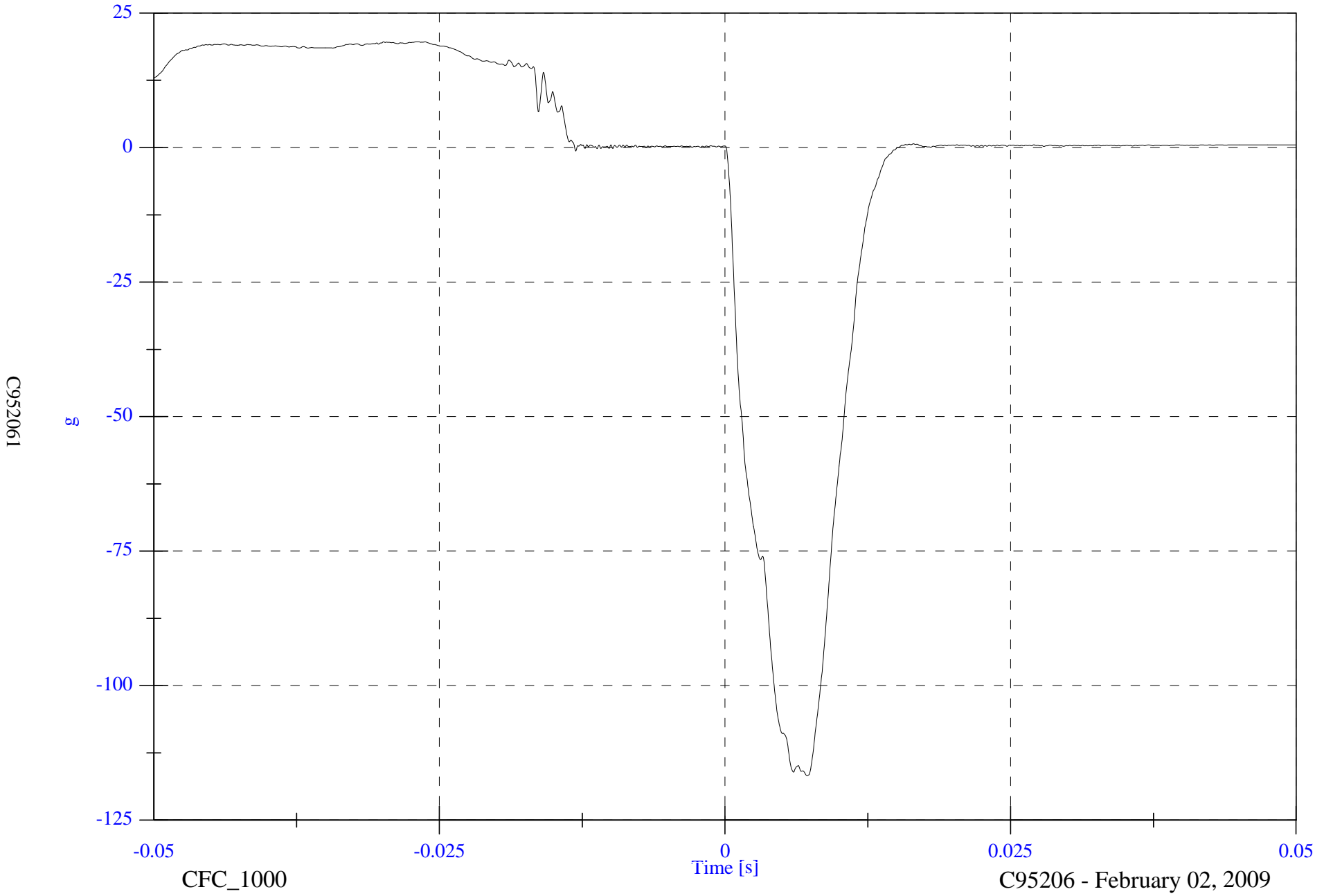


FMVSS 201U 09 Nissan Sentra

Headform X Acceleration

Max: 19.7 [g] at -0.030 [s]

Min: -116.7 [g] at 0.007 [s]

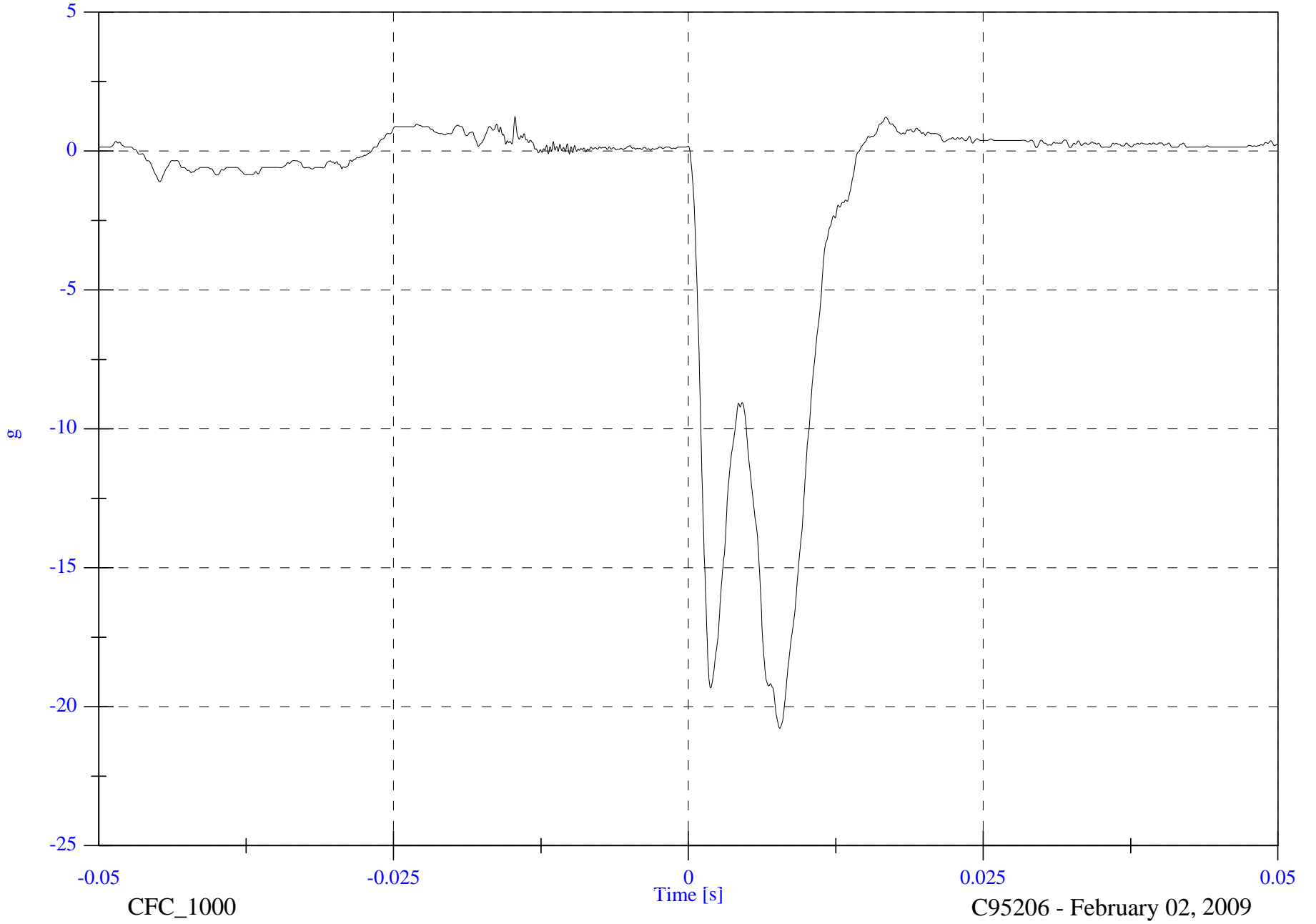


FMVSS 201U 09 Nissan Sentra

Headform Y Acceleration

Max: 1.2 [g] at -0.015 [s]
Min: -20.8 [g] at 0.008 [s]

C952062



CFC_1000

C95206 - February 02, 2009

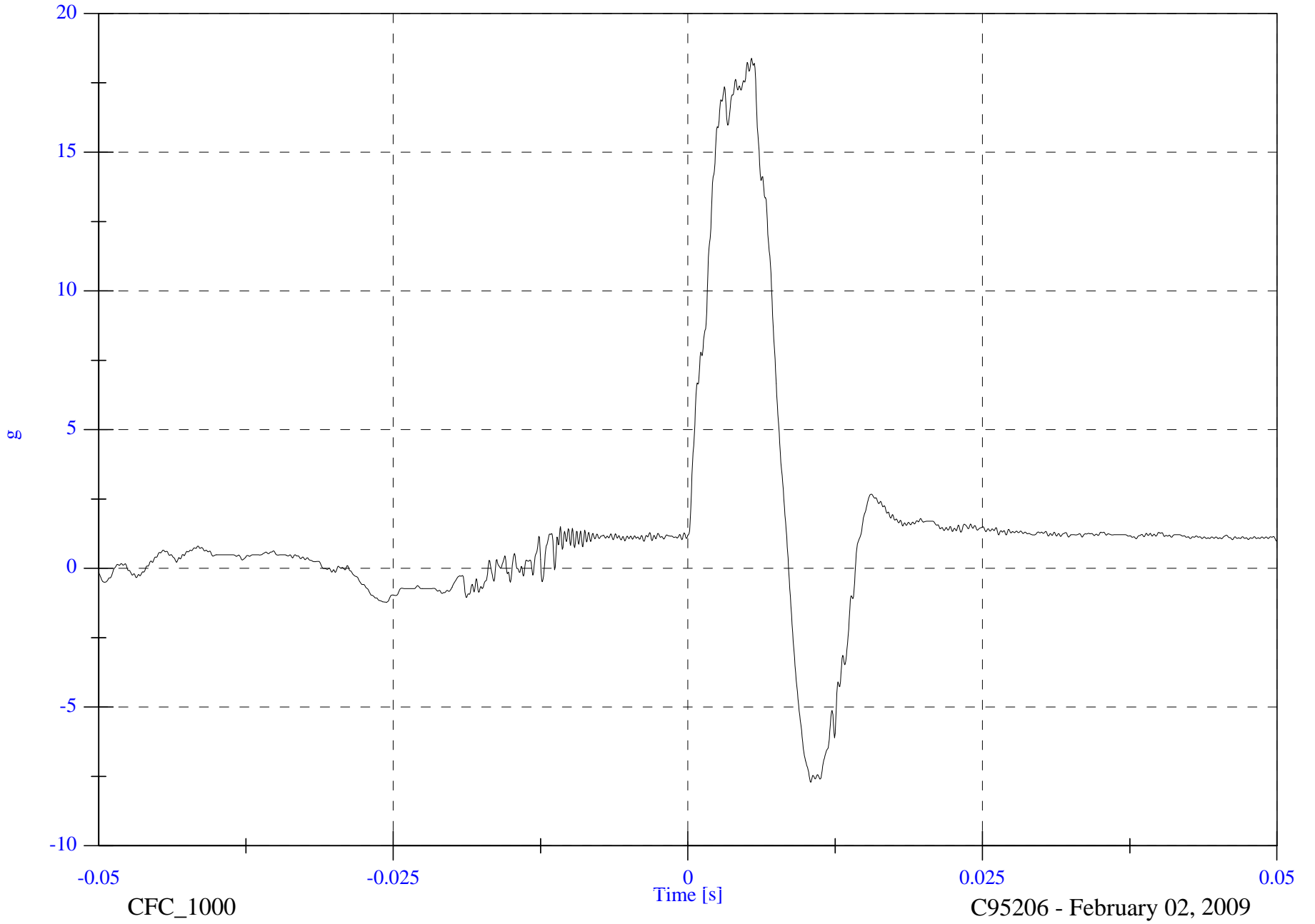
FMVSS 201U 09 Nissan Sentra

Headform Z Acceleration

Max: 18.4 [g] at 0.005 [s]

Min: -7.7 [g] at 0.010 [s]

C952063



CFC_1000

C95206 - February 02, 2009

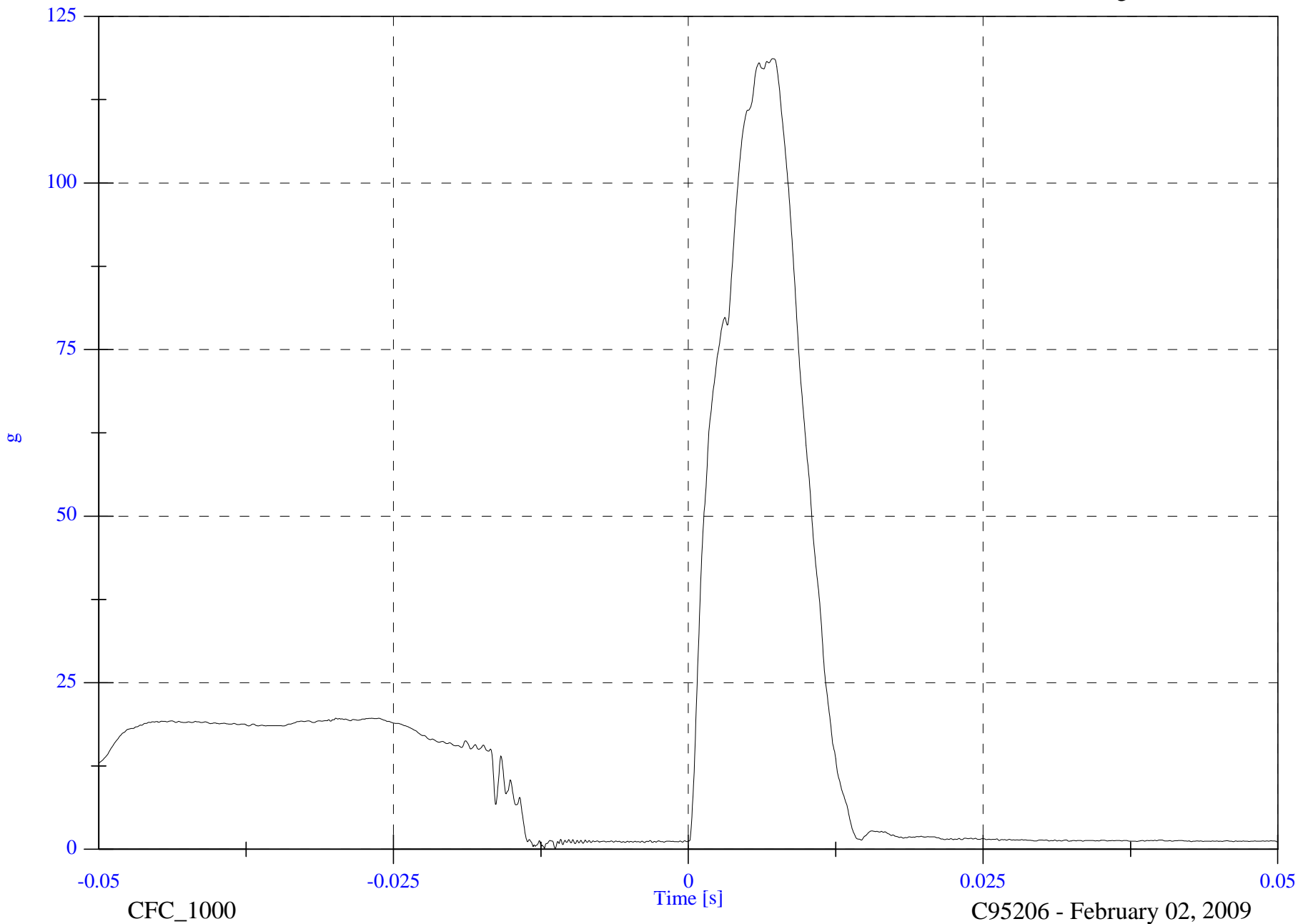
FMVSS 201U 09 Nissan Sentra

Headform Resultant

Max: 118.7 [g] at 0.007 [s]

Min: 0.1 [g] at -0.012 [s]

C952064



CFC_1000

C95206 - February 02, 2009

FMVSS 201U 09 Nissan Sentra

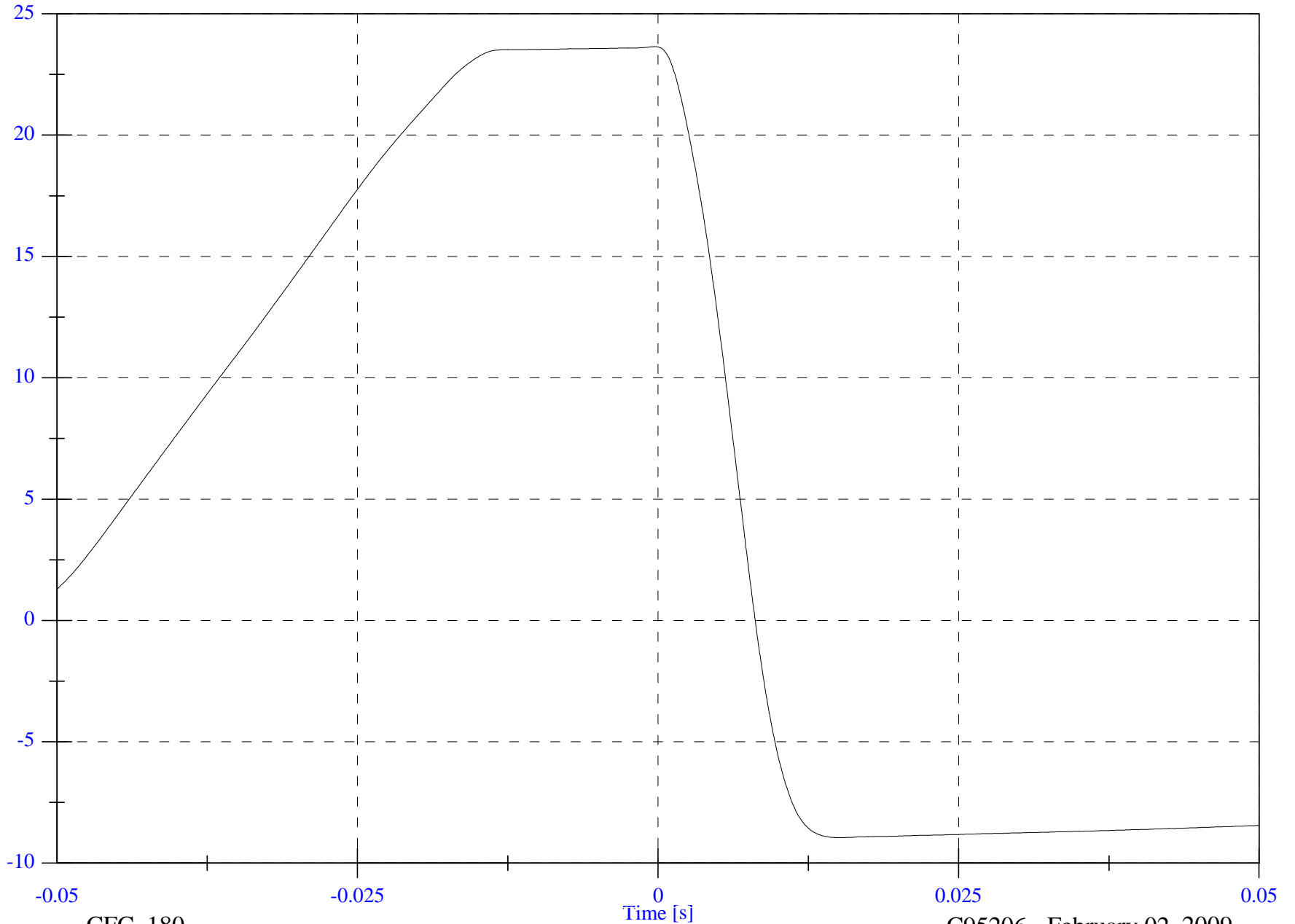
Headform Velocity

Max: 23.6 [KPH] at -0.000 [s]

Min: -8.9 [KPH] at 0.015 [s]

C952065

KPH



CFC_180

Time [s]

C95206 - February 02, 2009



PRE-IMPACT RP2

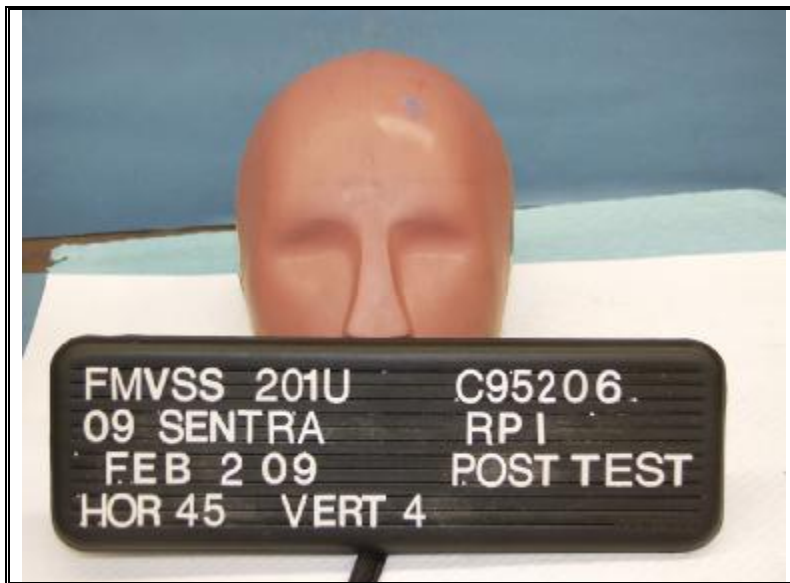


POST-IMPACT RP2

VEHICLE YEAR/MAKE/MODEL/STYLE:	2009 Nissan Sentra
VIN:	3N1AB61E39L608724
DATE OF MANUFACTURE:	10/08(SEE CERTIFICATION LABEL)
COLOR:	Gray

Test Number:	02
Test Date:	02/02/09
Target Location:	REAR PILLAR
Target Code:	RP1
Horizontal Impact Angle:	45°
Vertical Impact Angle:	4°
Ambient Temperature:	20°C
Relative Humidity:	23
Time of Impact:	9:25
Headform Number:	1142

Impact Point Description (from lower midpoint on midsagittal line)			
On Centerline	22	<input type="checkbox"/>	mm right <input checked="" type="checkbox"/> mm left
On Centerline	39		mm up



POST-IMPACT RP1 HEADFORM

Free Motion HIC	272.3
HIC(d)	371.9
Impact Velocity (kph)	18.55
HIC T1 (msec)	6.9
HIC T2 (msec)	15.4

FMVSS 201U 09 Nissan Sentra C95206 - RP1

FMH Headform 1142

Location: RP1

Test Date: February 02, 2009

Work File: RP1

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

Lab Temperature: 20 C

HICd: 371.9

Lab Humidity: 23 %

HIC (36ms): 272.3

Velocity at Impact: 18.55 KPH

t1: 6.9 msec

t2: 15.4 msec

Free Flight Distance: 212.22 mm

Duration: 8.6 msec

Average Acceleration: 7.7 g

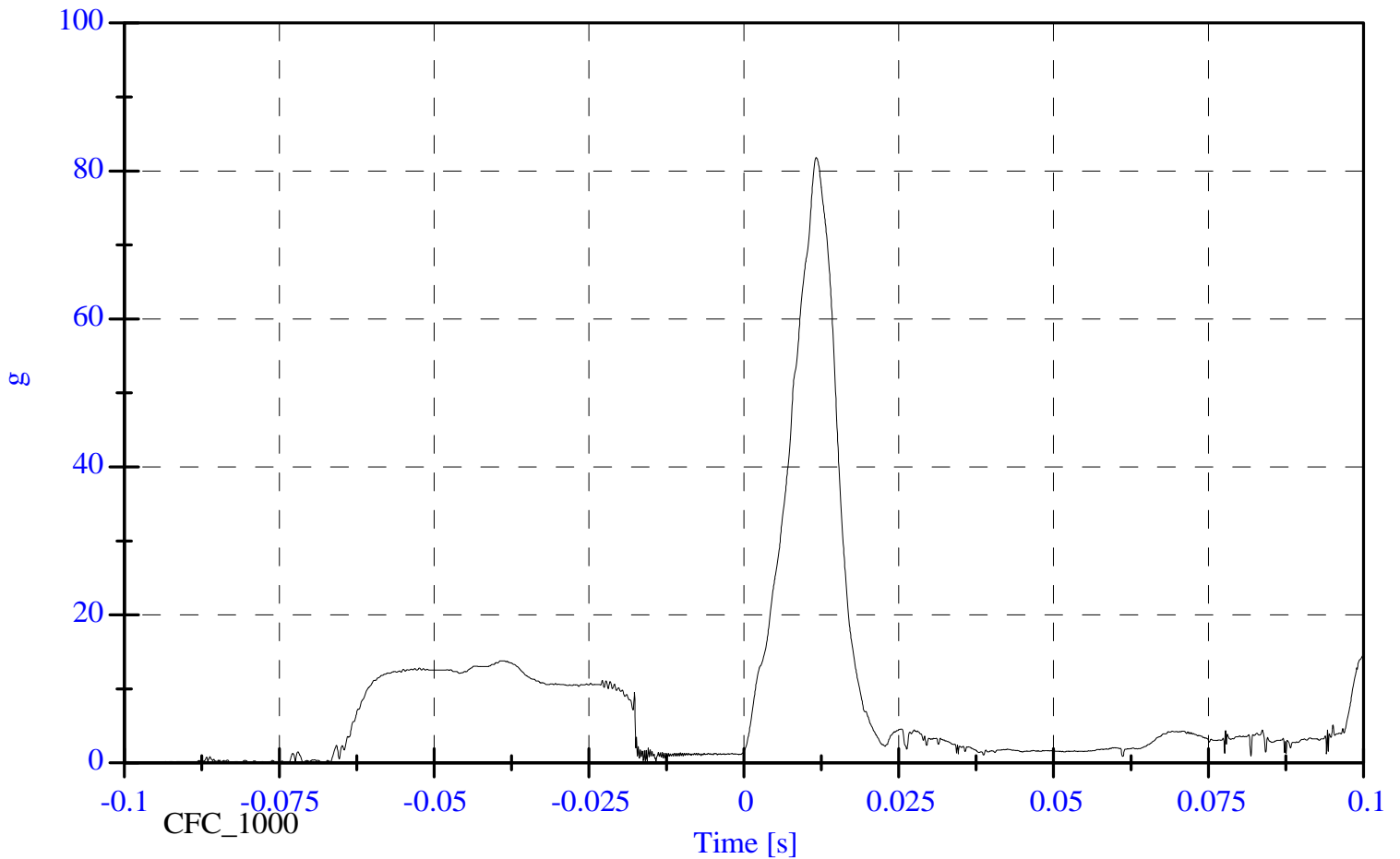
Maximum: 81.8 g

FMVSS 201U 09 Nissan Sentra

Headform Resultant

Max: 81.8 [g] at 0.012 [s]

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



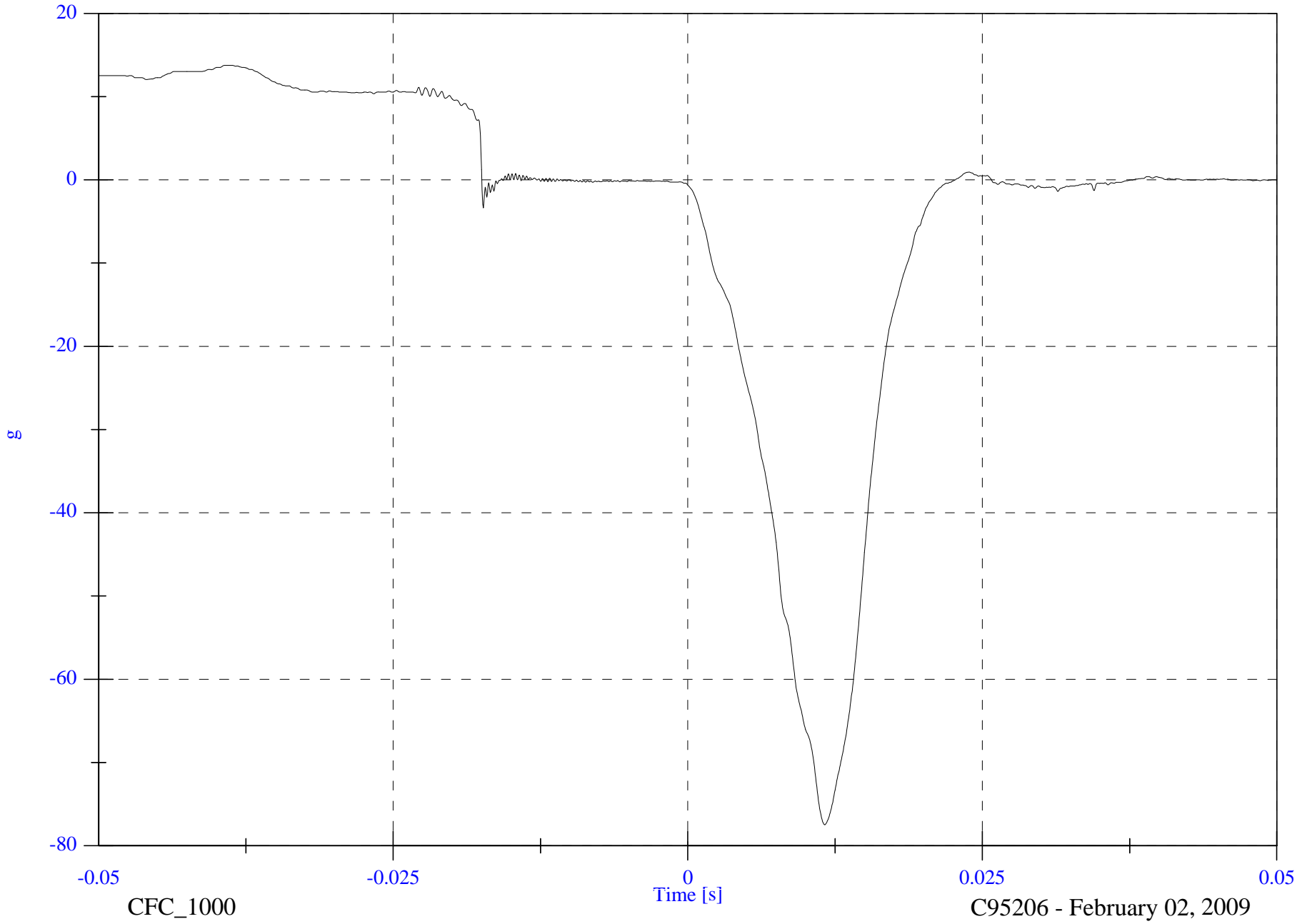
FMVSS 201U 09 Nissan Sentra

Headform X Acceleration

Max: 13.8 [g] at -0.039 [s]

Min: -77.5 [g] at 0.012 [s]

C95206 PASSENGER SIDE RPI IMPACT PLOT #1



CFC_1000

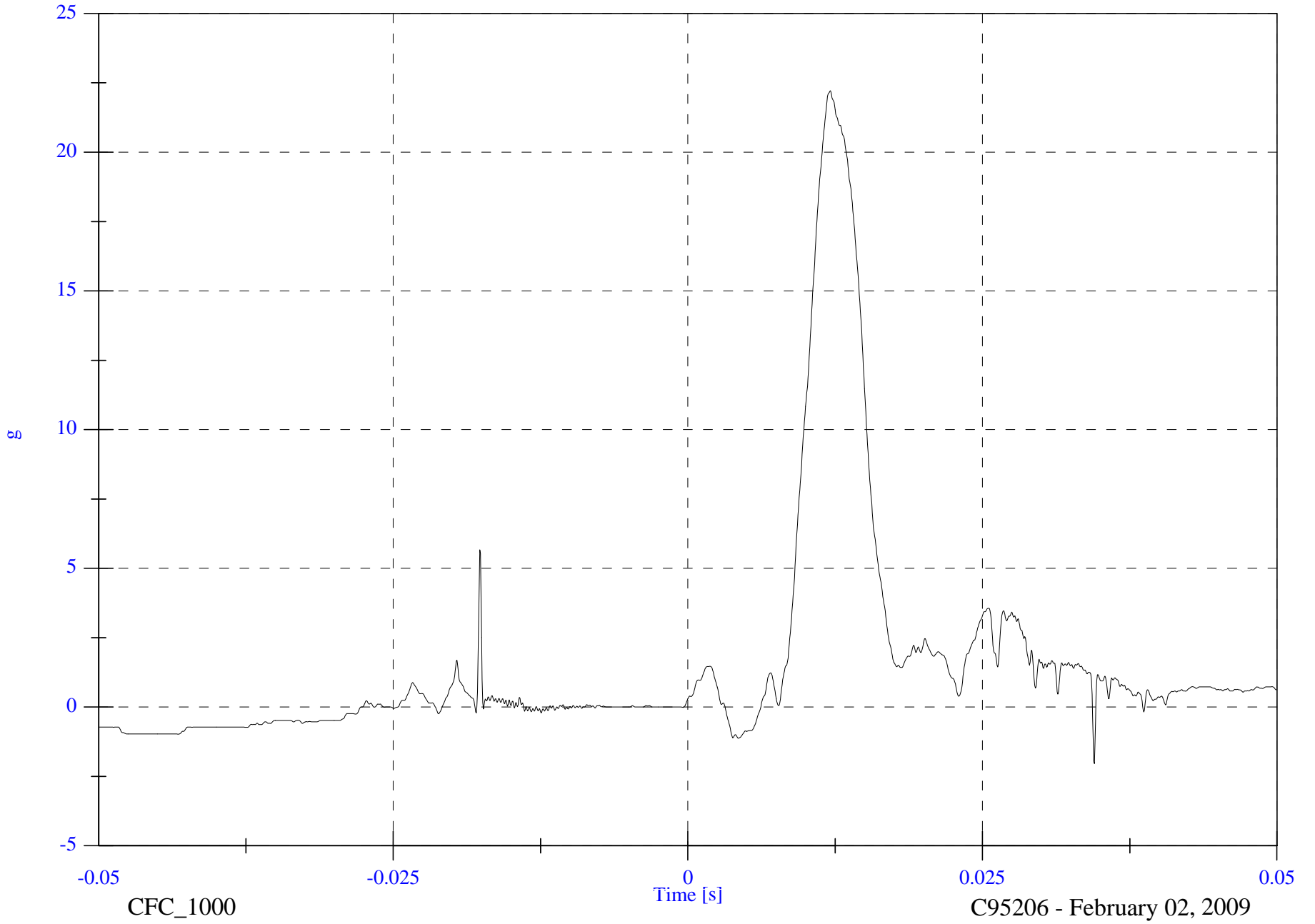
C95206 - February 02, 2009

FMVSS 201U 09 Nissan Sentra

Headform Y Acceleration

Max: 22.2 [g] at 0.012 [s]
Min: -2.0 [g] at 0.034 [s]

C95206 PASSENGER SIDE RPI IMPACT PLOT #2



CFC_1000

C95206 - February 02, 2009

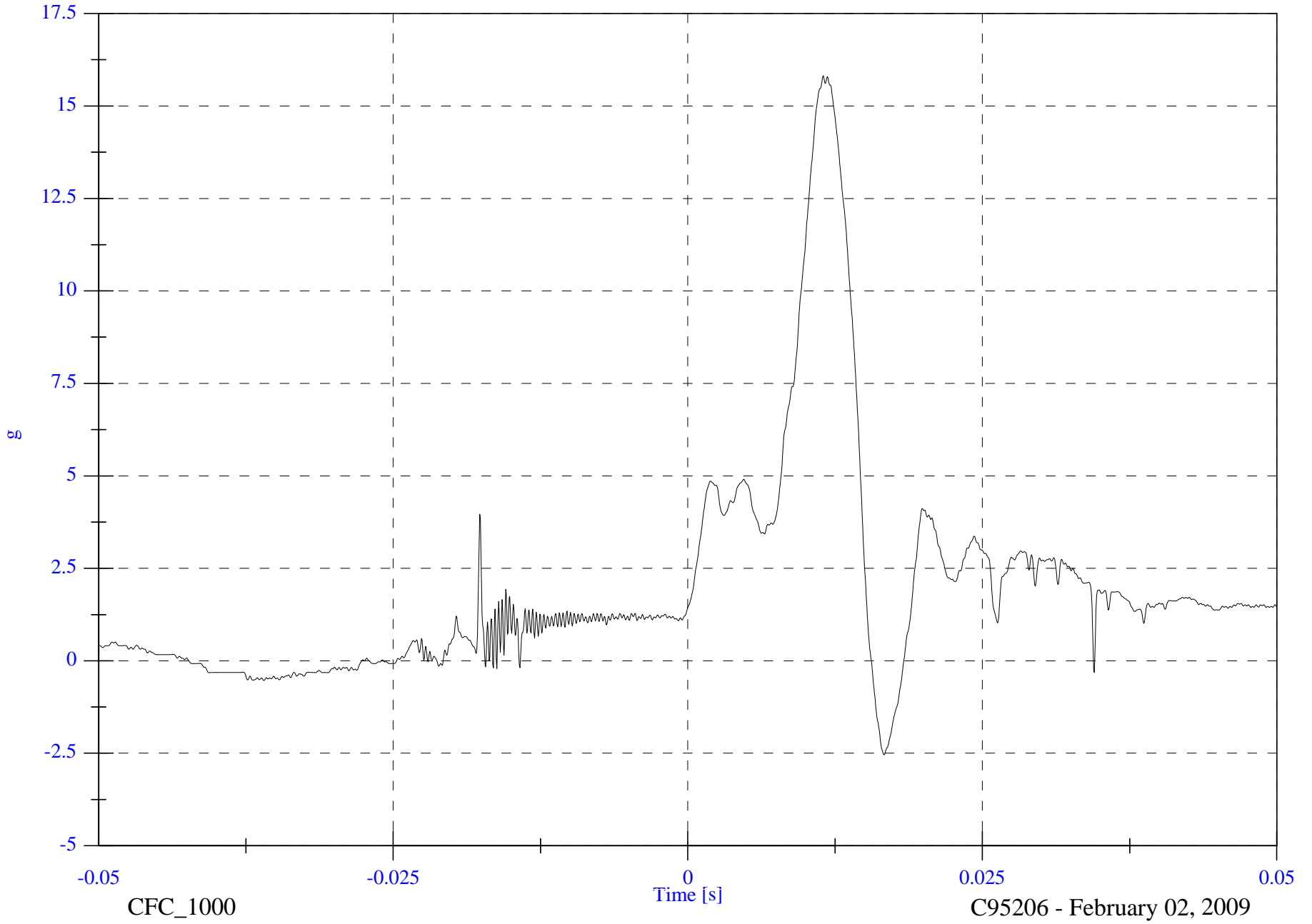
FMVSS 201U 09 Nissan Sentra

Headform Z Acceleration

Max: 15.8 [g] at 0.011 [s]

Min: -2.5 [g] at 0.017 [s]

C95206 PASSENGER SIDE RPI IMPACT PLOT #3



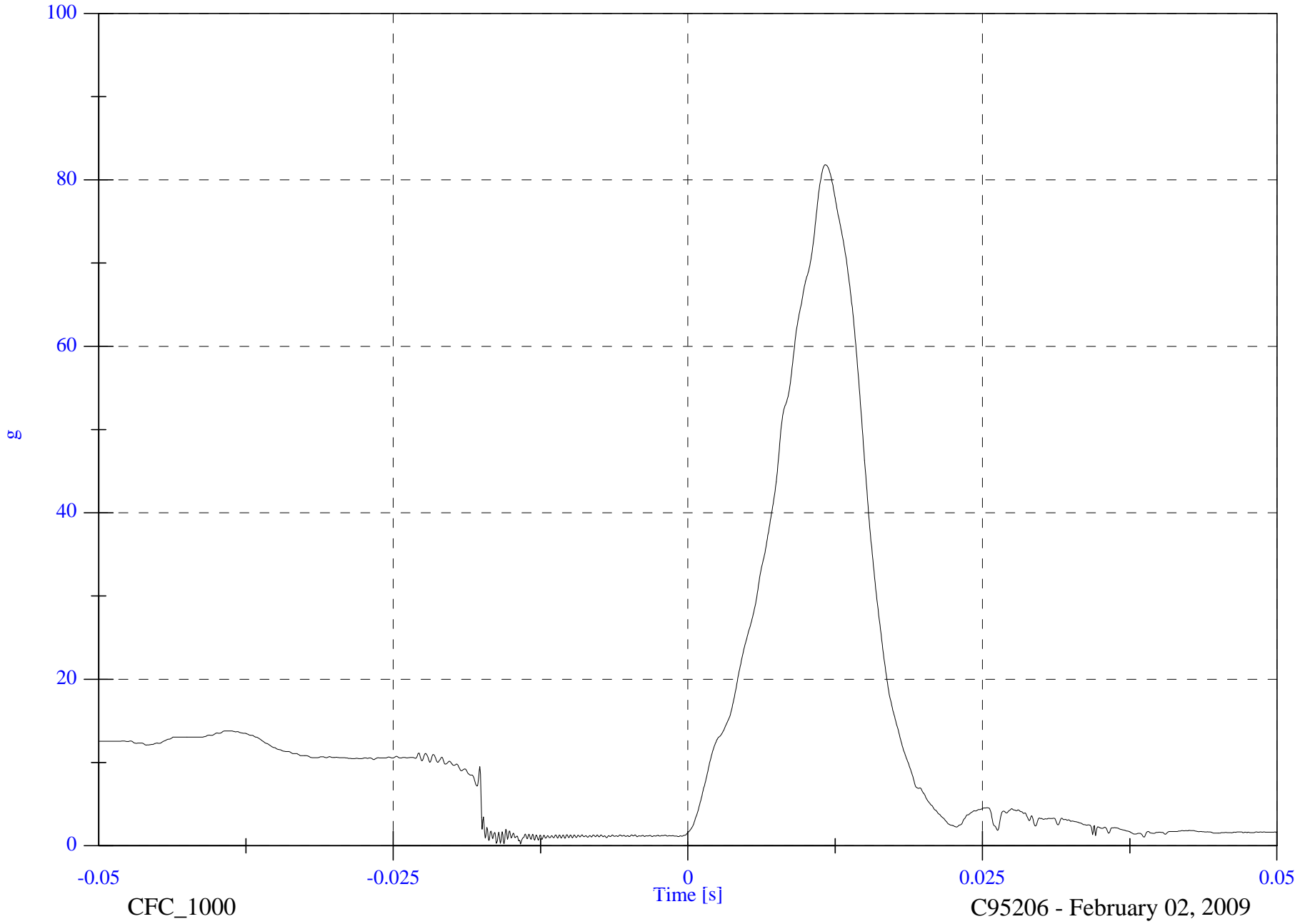
FMVSS 201U 09 Nissan Sentra

Headform Resultant

Max: 81.8 [g] at 0.012 [s]

Min: 0.2 [g] at -0.014 [s]

C95206 PASSENGER SIDE RPI IMPACT PLOT #4



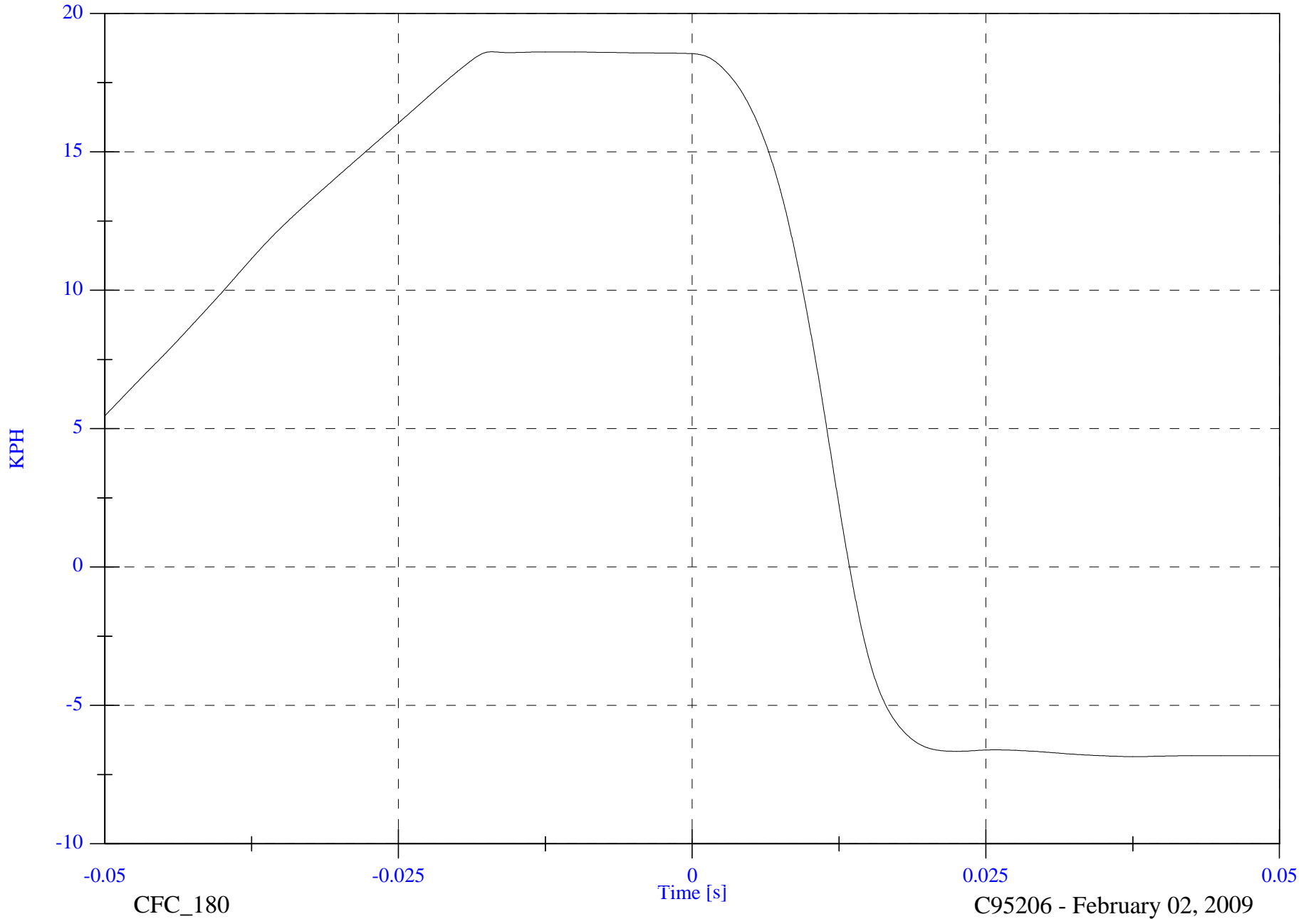
FMVSS 201U 09 Nissan Sentra

Max: 18.6 [KPH] at -0.017 [s]

Min: -6.8 [KPH] at 0.038 [s]

Headform Velocity

C95206 PASSENGER SIDE RPI IMPACT PLOT #5



CFC_180

C95206 - February 02, 2009



PRE-IMPACT RP1



POST-IMPACT RPI

VEHICLE YEAR/MAKE/MODEL/STYLE:	2009 Nissan Sentra
VIN:	3N1AB61E39L608724
DATE OF MANUFACTURE:	10/08(SEE CERTIFICATION LABEL)
COLOR:	Gray

Test Number:	03
Test Date:	02/02/09
Target Location:	UPPER ROOF
Target Code:	URRP
Horizontal Impact Angle:	56°
Vertical Impact Angle:	50°
Ambient Temperature:	20°C
Relative Humidity:	23
Time of Impact:	9:50
Headform Number:	0355

Impact Point Description (from lower midpoint on midsagittal line)			
On Centerline	11	<input type="checkbox"/>	mm right <input checked="" type="checkbox"/> mm left
On Centerline	46		mm up



POST-IMPACT URRP HEADFORM

Free Motion HIC	495.8
HIC(d)	540.5
Impact Velocity (kph)	23.74
HIC T1 (msec)	6.0
HIC T2 (msec)	13.3

FMVSS 201U 09 Nissan Sentra C95206 - URRP

FMH Headform 0355

Location: URRP

Test Date: February 02, 2009

Work File: URRP

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

Lab Temperature: 20 C

HICd: 540.5

Lab Humidity: 23 %

HIC (36ms): 495.8

Velocity at Impact: 23.74 KPH

t1: 6.0 msec

t2: 13.3 msec

Free Flight Distance: 223.98 mm

Duration: 7.3 msec

Average Acceleration: 8.9 g

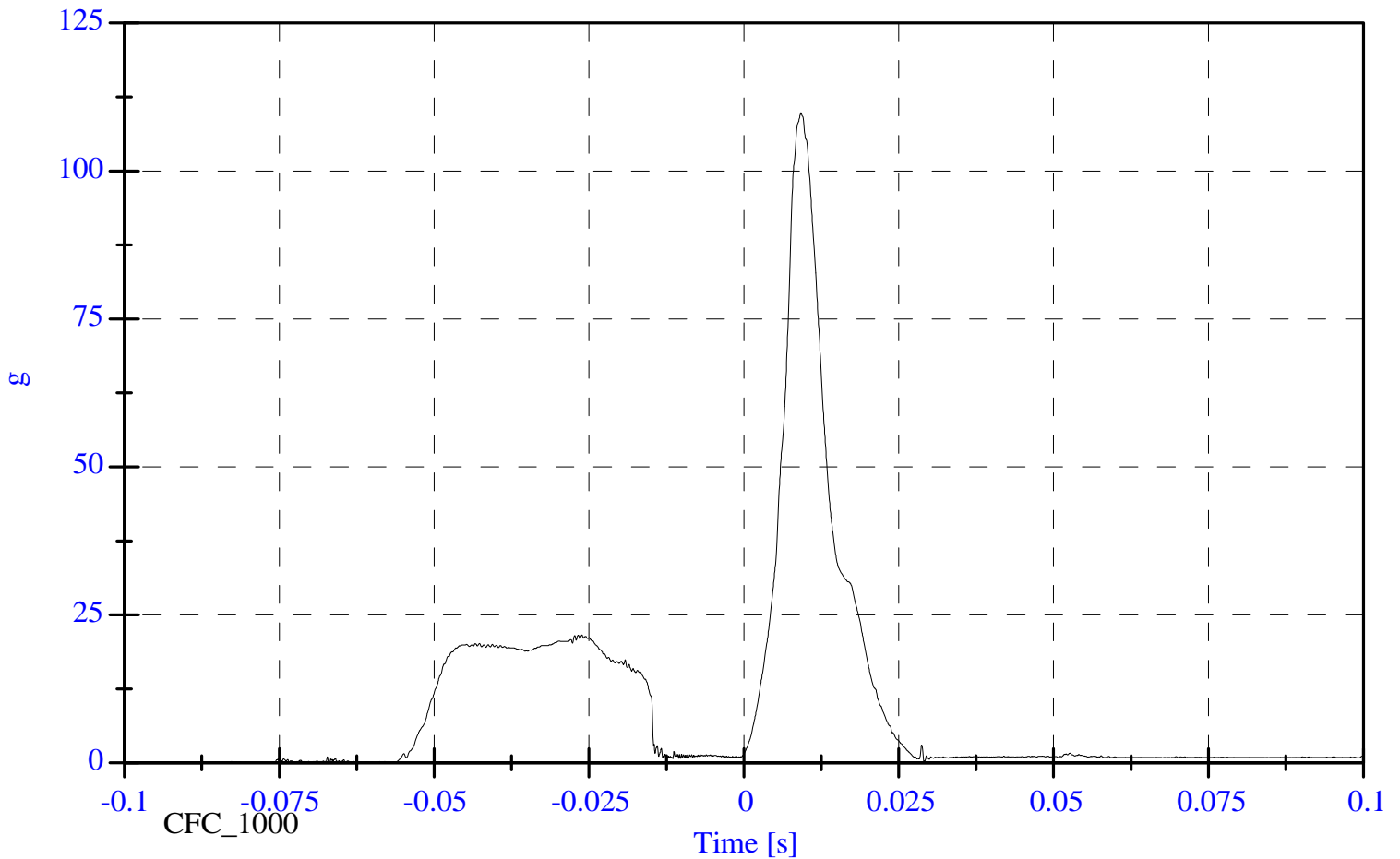
Maximum: 109.8 g

FMVSS 201U 09 Nissan Sentra

Headform Resultant

Max: 109.8 [g] at 0.009 [s]

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



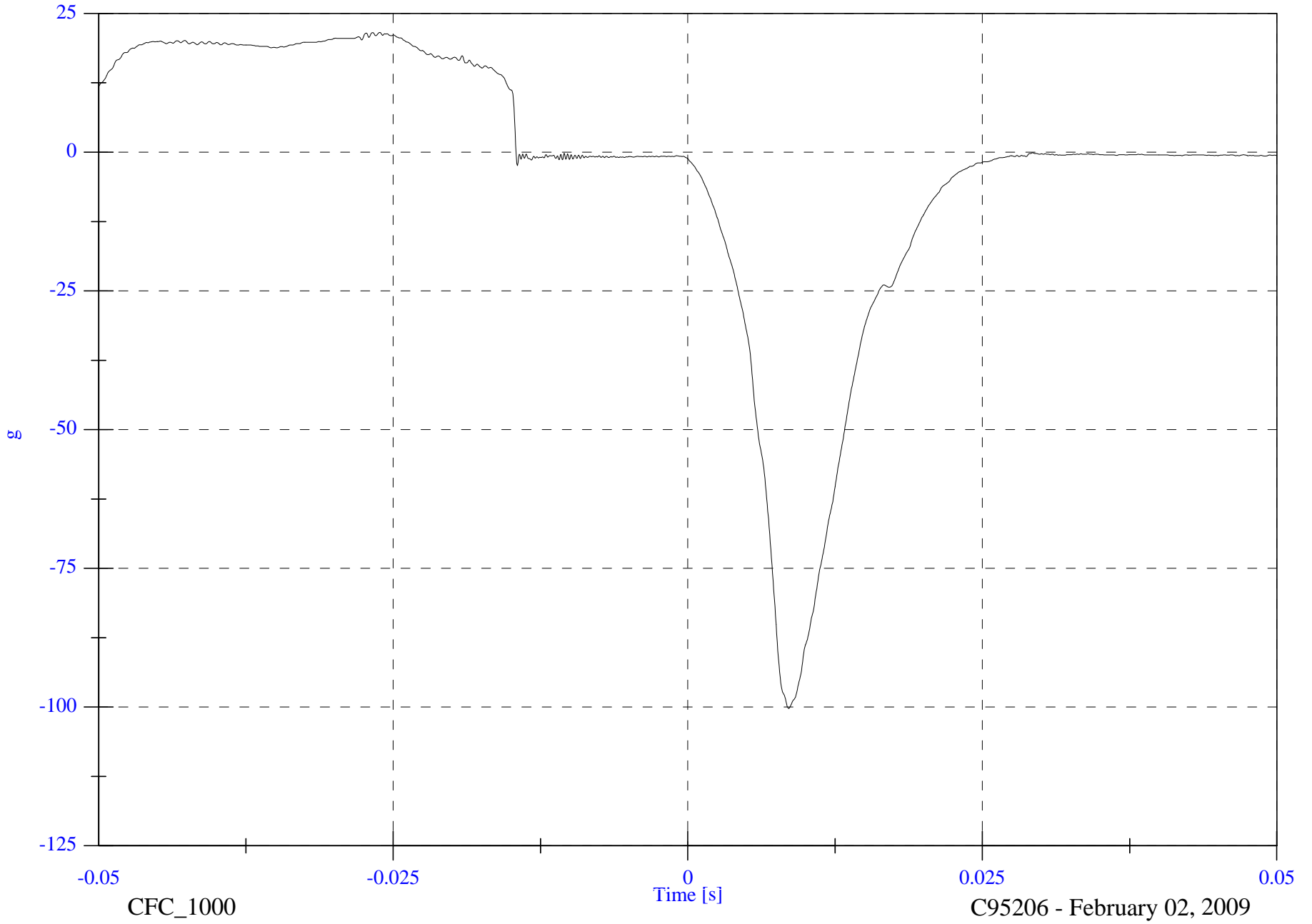
FMVSS 201U 09 Nissan Sentra

Headform X Acceleration

Max: 21.6 [g] at -0.026 [s]

Min: -100.3 [g] at 0.009 [s]

C95206 PASSENGER SIDE URRP IMPACT PLOT #1



CFC_1000

C95206 - February 02, 2009

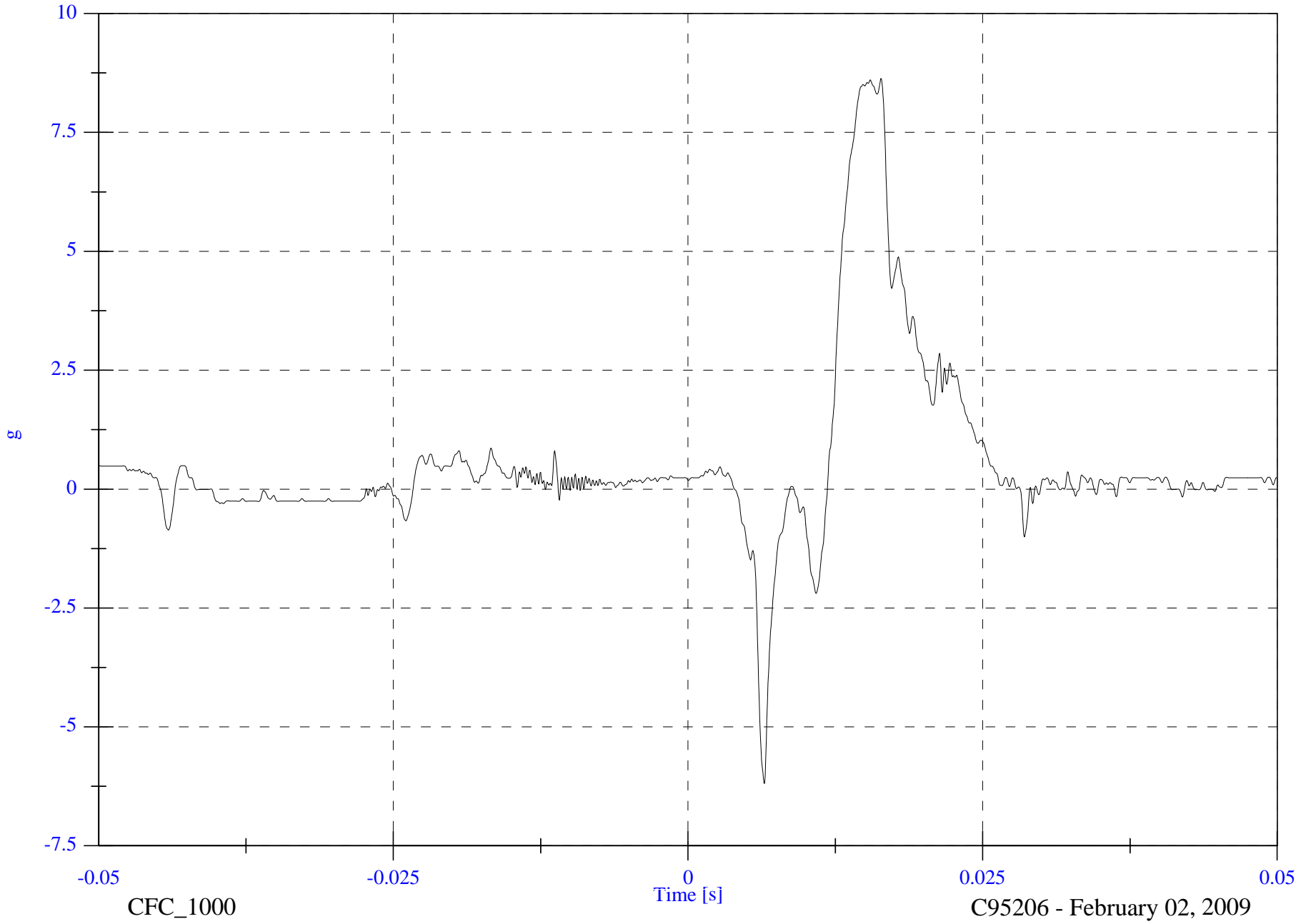
FMVSS 201U 09 Nissan Sentra

Headform Y Acceleration

Max: 8.6 [g] at 0.016 [s]

Min: -6.2 [g] at 0.006 [s]

C95206 PASSENGER SIDE URRP IMPACT PLOT #2



CFC_1000

C95206 - February 02, 2009

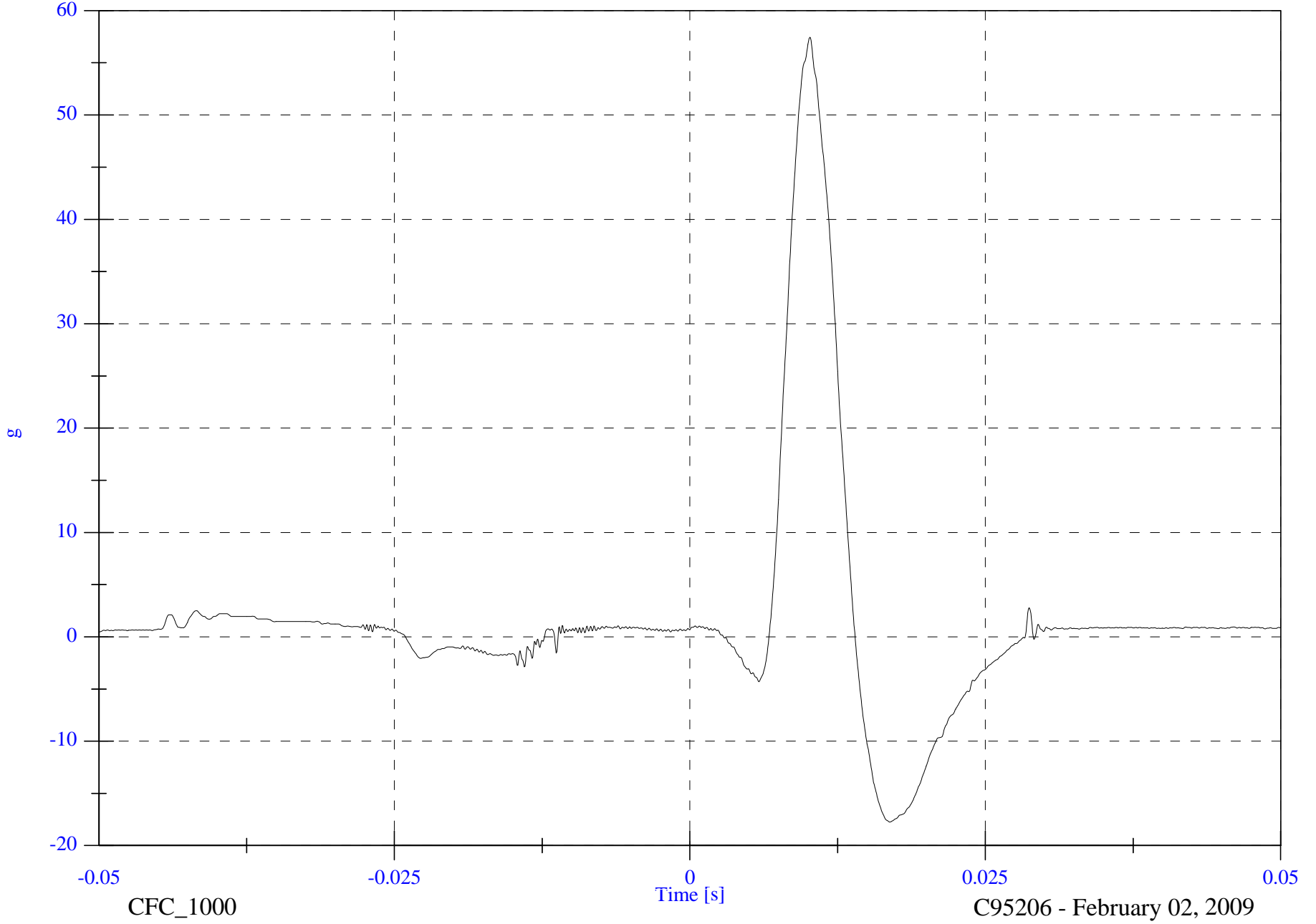
FMVSS 201U 09 Nissan Sentra

Headform Z Acceleration

Max: 57.4 [g] at 0.010 [s]

Min: -17.8 [g] at 0.017 [s]

C95206 PASSENGER SIDE URRP IMPACT PLOT #3



CFC_1000

C95206 - February 02, 2009

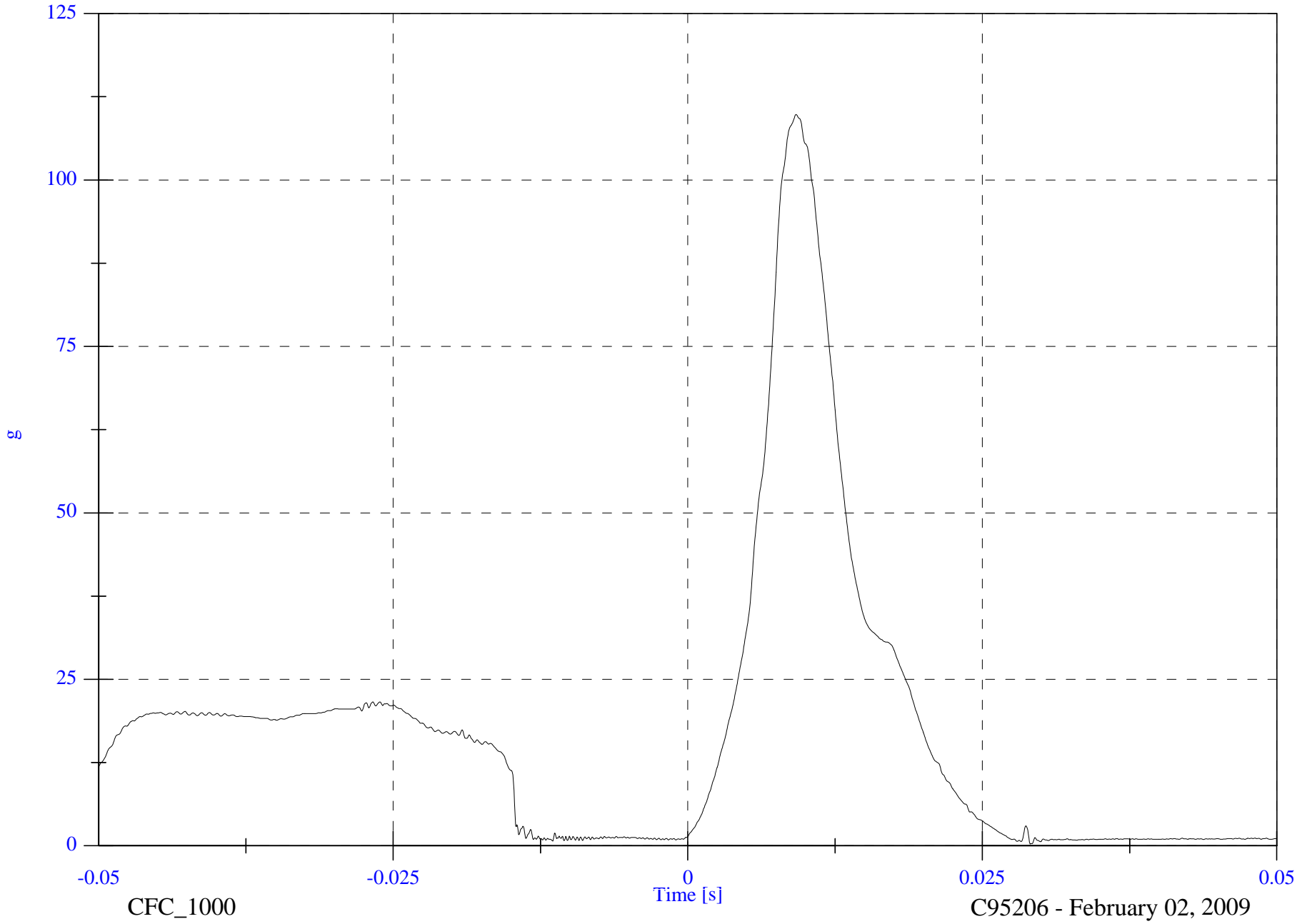
FMVSS 201U 09 Nissan Sentra

Headform Resultant

Max: 109.8 [g] at 0.009 [s]

Min: 0.3 [g] at 0.029 [s]

C95206 PASSENGER SIDE URRP IMPACT PLOT #4



CFC_1000

C95206 - February 02, 2009

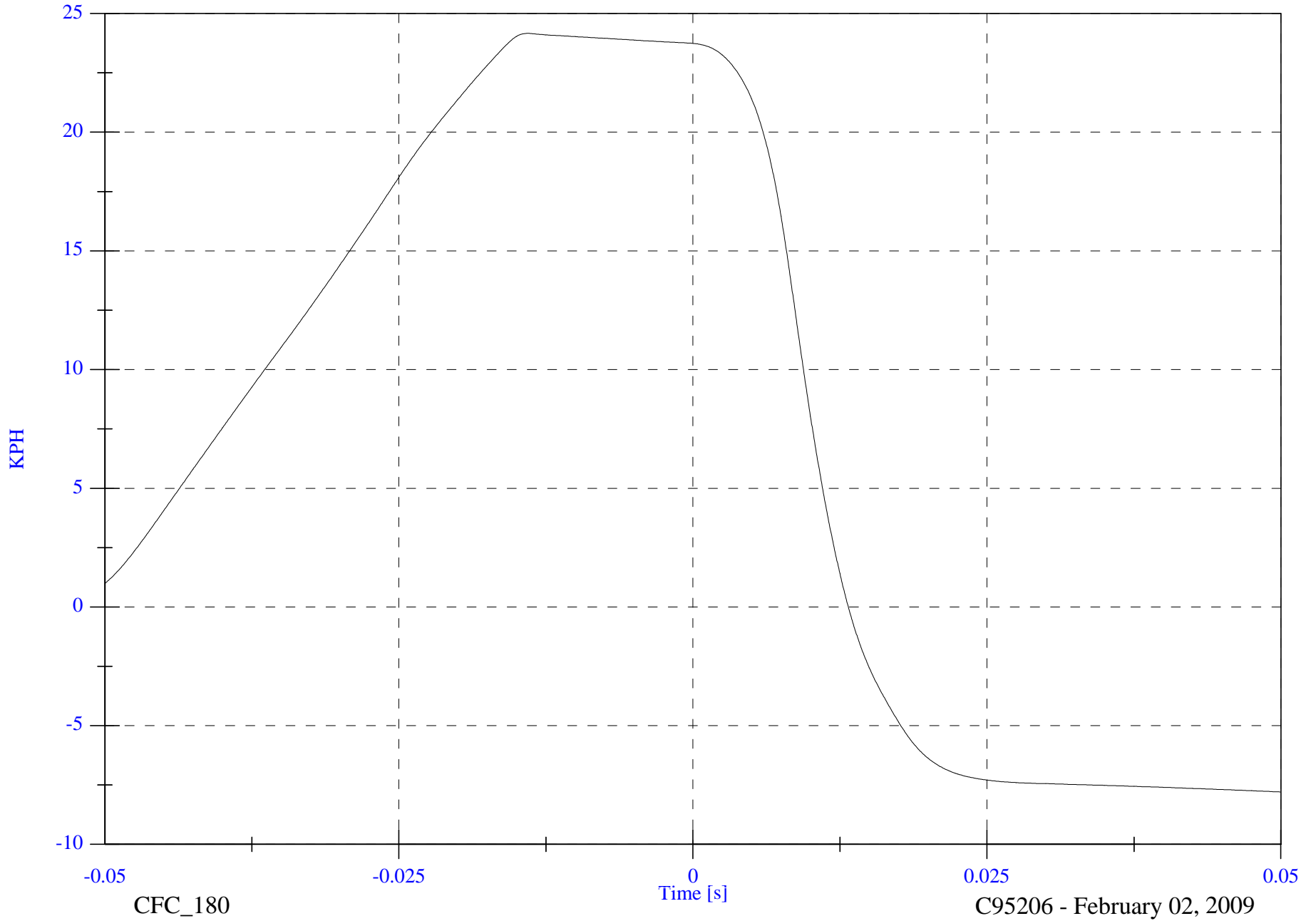
FMVSS 201U 09 Nissan Sentra

Max: 24.2 [KPH] at -0.014 [s]

Min: -7.8 [KPH] at 0.050 [s]

Headform Velocity

C95206 PASSENGER SIDE URRP IMPACT PLOT #5



CFC_180

C95206 - February 02, 2009



PRE-IMPACT URRP

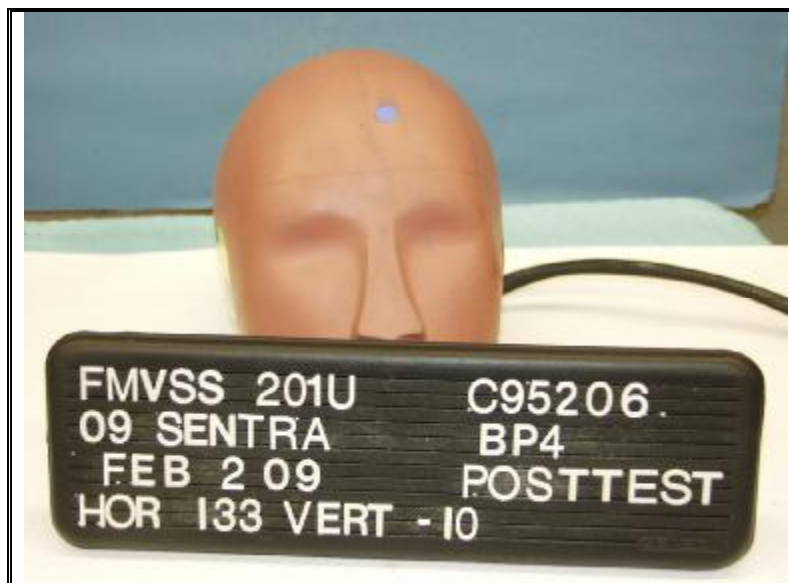


POST-IMPACT URRP

VEHICLE YEAR/MAKE/MODEL/STYLE:	2009 Nissan Sentra
VIN:	3N1AB61E39L608724
DATE OF MANUFACTURE:	10/08(SEE CERTIFICATION LABEL)
COLOR:	Gray

Test Number:	04
Test Date:	02/02/09
Target Location:	B-PILLAR
Target Code:	BP4
Horizontal Impact Angle:	133°
Vertical Impact Angle:	-10°
Ambient Temperature:	20°C
Relative Humidity:	23
Time of Impact:	10:20
Headform Number:	1140

Impact Point Description (from lower midpoint on midsagittal line)					
On Centerline	8	<input type="checkbox"/>	mm right	<input checked="" type="checkbox"/>	mm left
On Centerline	29				mm up



POST-IMPACT BP4 HEADFORM

Free Motion HIC	565.8
HIC(d)	593.3
Impact Velocity (kph)	23.68
HIC T1 (msec)	1.2
HIC T2 (msec)	11.3

FMVSS 201U 09 Nissan Sentra C95206 - BP4

FMH Headform 1140

Location: BP4

Test Date: February 02, 2009

Work File: BP4

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

Lab Temperature: 20 C

HICd: 593.3

Lab Humidity: 23 %

HIC (36ms): 565.8

Velocity at Impact: 23.68 KPH

t1: 1.2 msec

t2: 11.3 msec

Free Flight Distance: 225.00 mm

Duration: 10.0 msec

Average Acceleration: 8.7 g

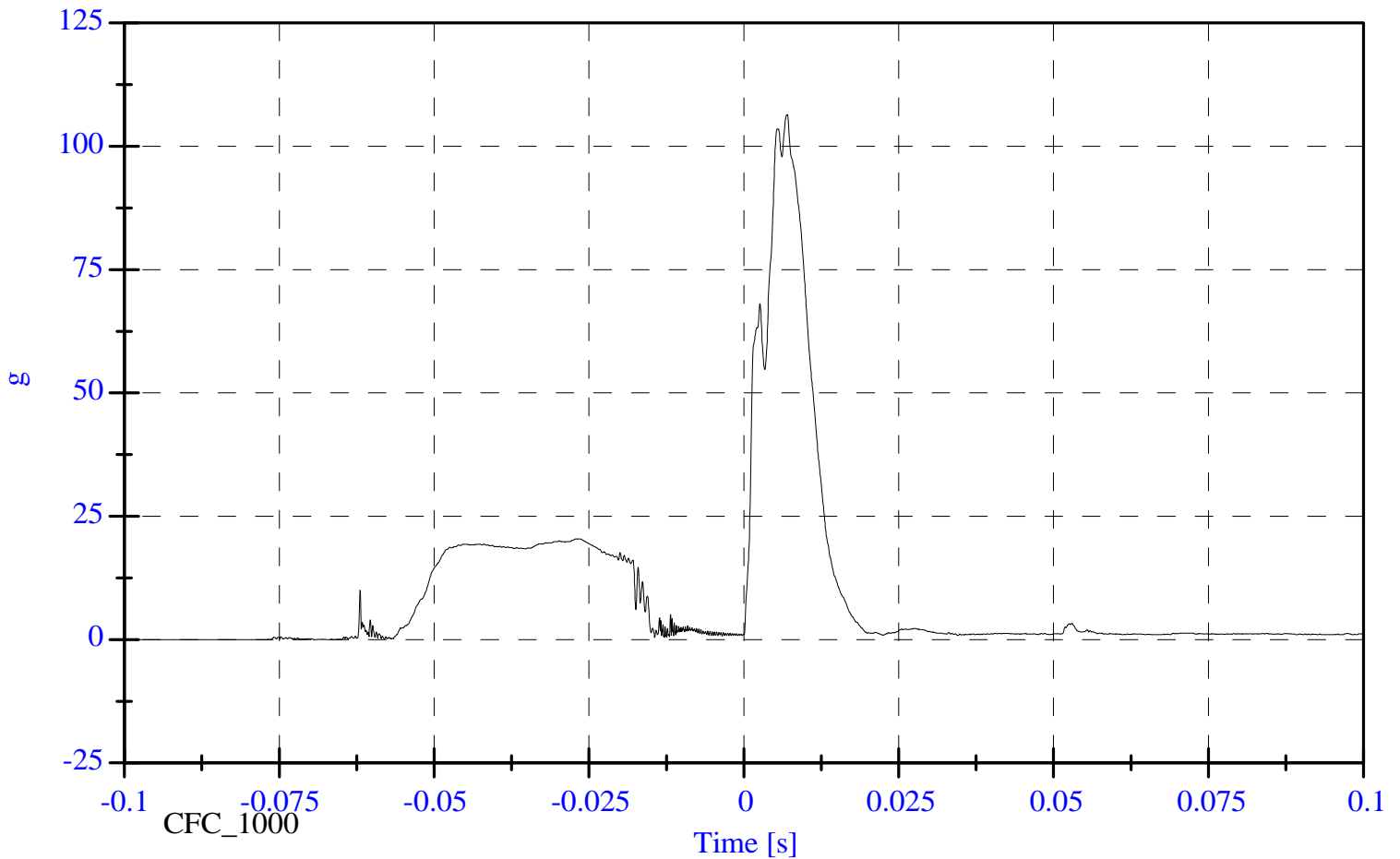
Maximum: 106.5 g

FMVSS 201U 09 Nissan Sentra

Headform Resultant

Max: 106.5 [g] at 0.007 [s]

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



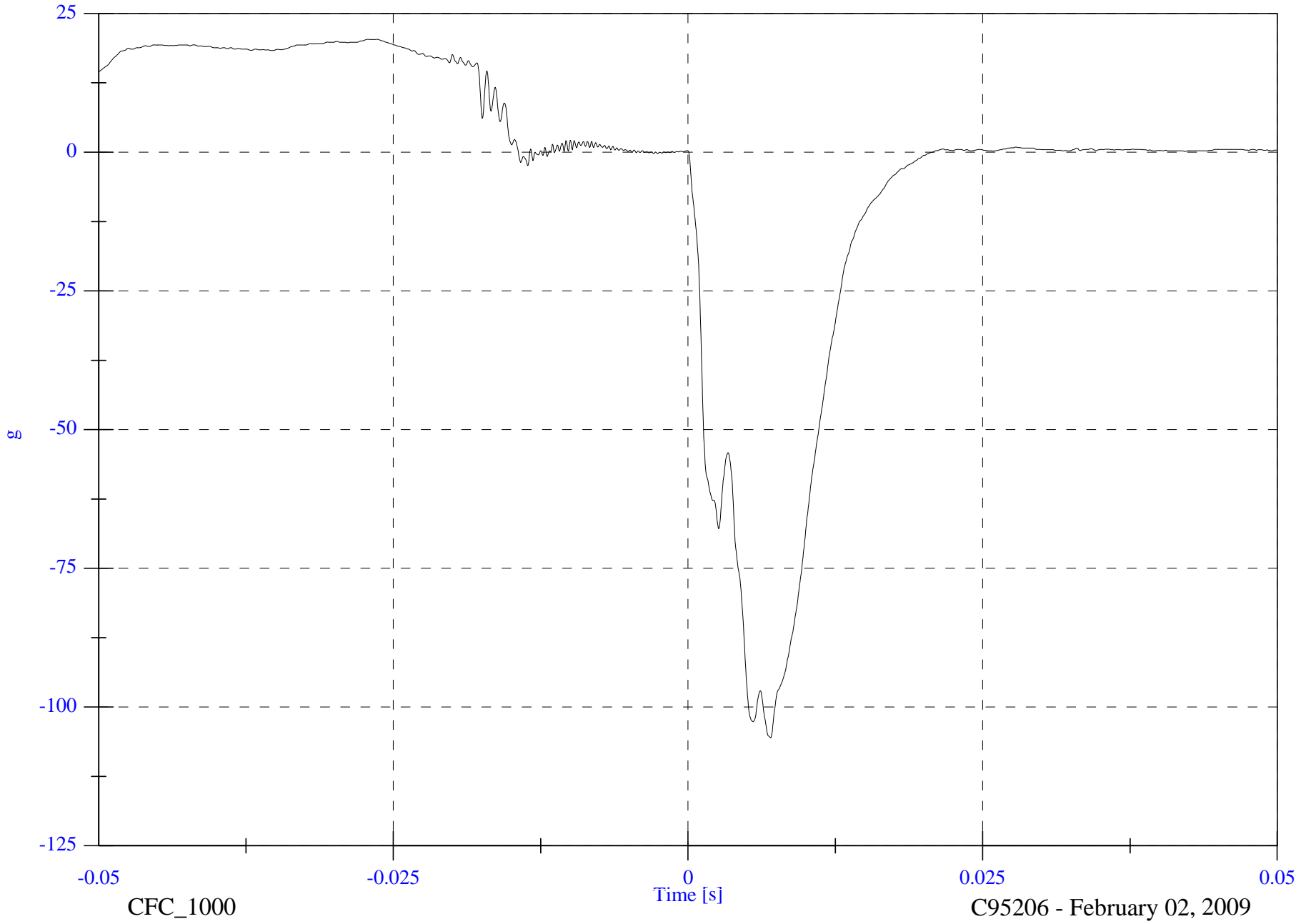
FMVSS 201U 09 Nissan Sentra

Headform X Acceleration

Max: 20.3 [g] at -0.027 [s]

Min: -105.5 [g] at 0.007 [s]

C95206 PASSENGER SIDE BP4 IMPACT PLOT #1



CFC_1000

C95206 - February 02, 2009

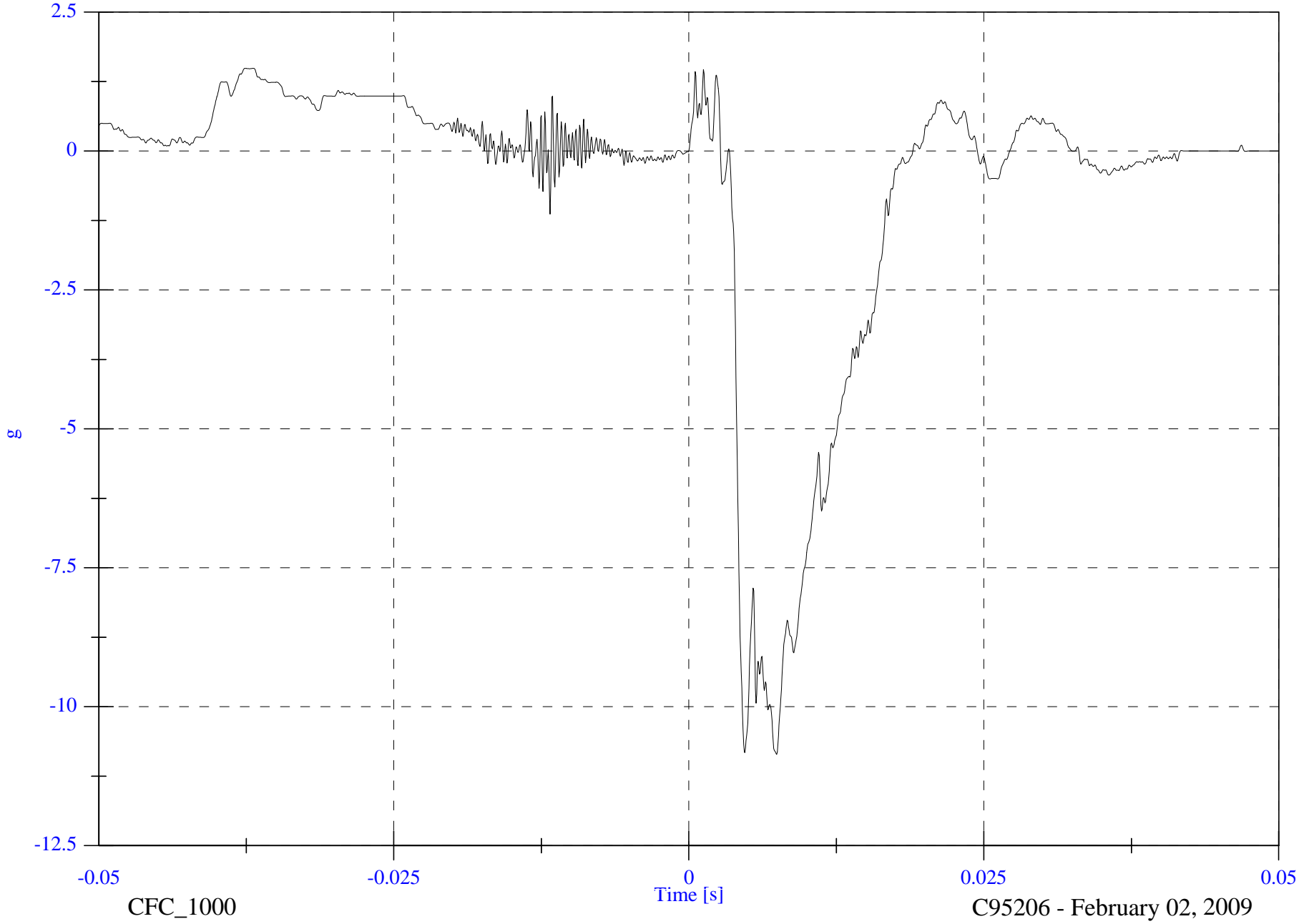
FMVSS 201U 09 Nissan Sentra

Headform Y Acceleration

Max: 1.5 [g] at -0.037 [s]

Min: -10.9 [g] at 0.007 [s]

C95206 PASSENGER SIDE BP4 IMPACT PLOT #2



CFC_1000

C95206 - February 02, 2009

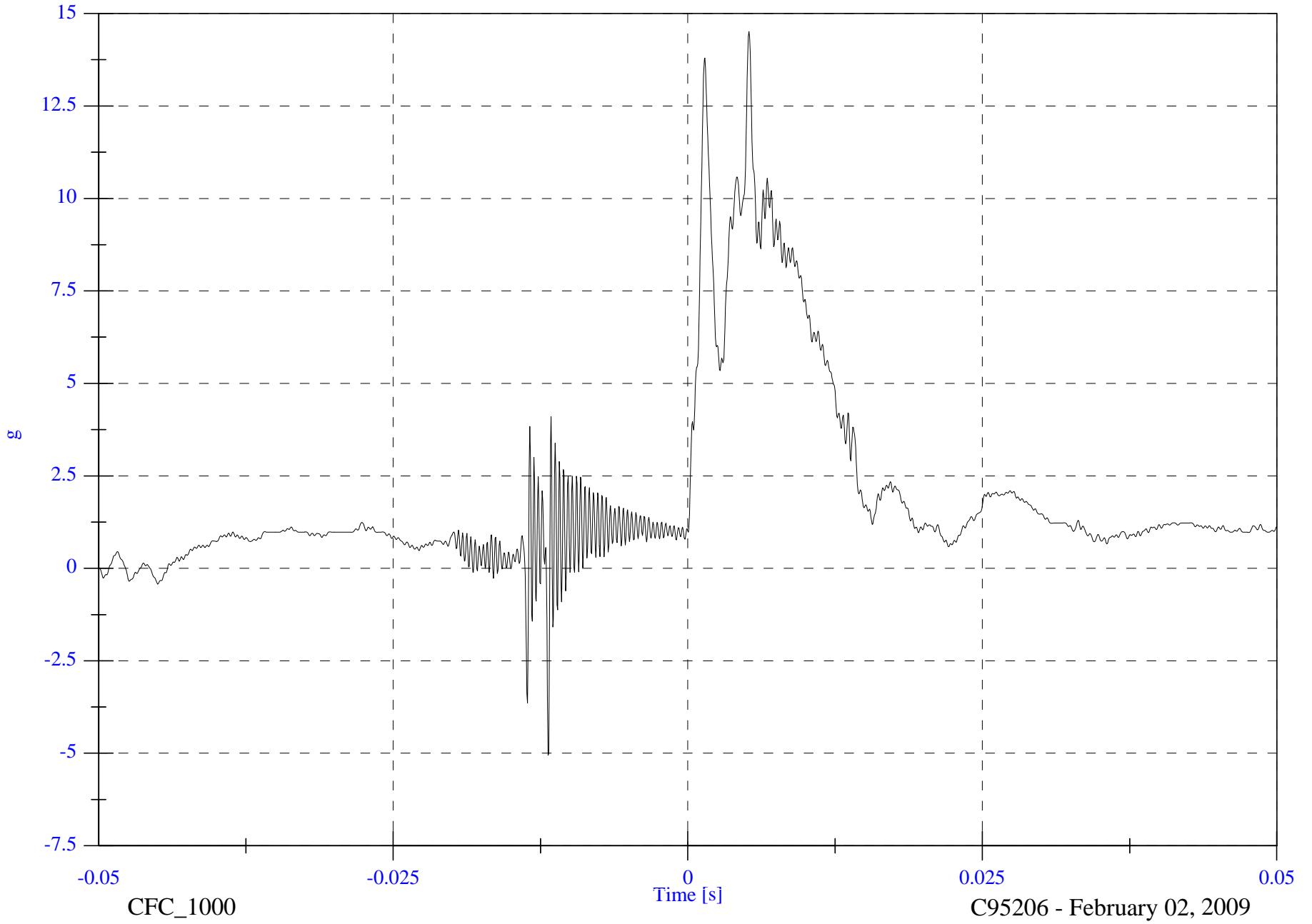
FMVSS 201U 09 Nissan Sentra

Headform Z Acceleration

Max: 14.5 [g] at 0.005 [s]

Min: -5.1 [g] at -0.012 [s]

C95206 PASSENGER SIDE BP4 IMPACT PLOT #3



CFC_1000

C95206 - February 02, 2009

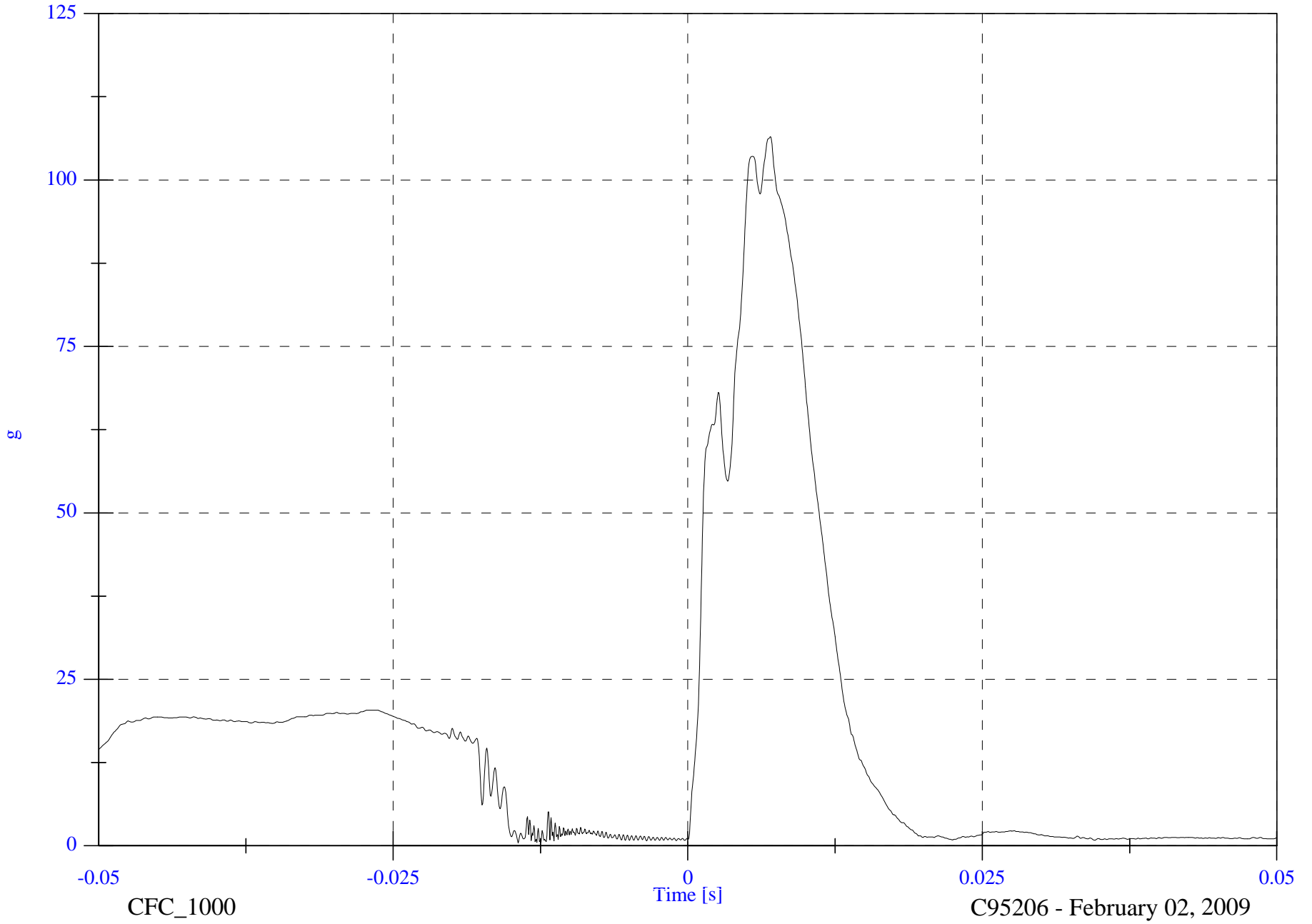
FMVSS 201U 09 Nissan Sentra

Headform Resultant

Max: 106.5 [g] at 0.007 [s]

Min: 0.4 [g] at -0.014 [s]

C95206 PASSENGER SIDE BP4 IMPACT PLOT #4

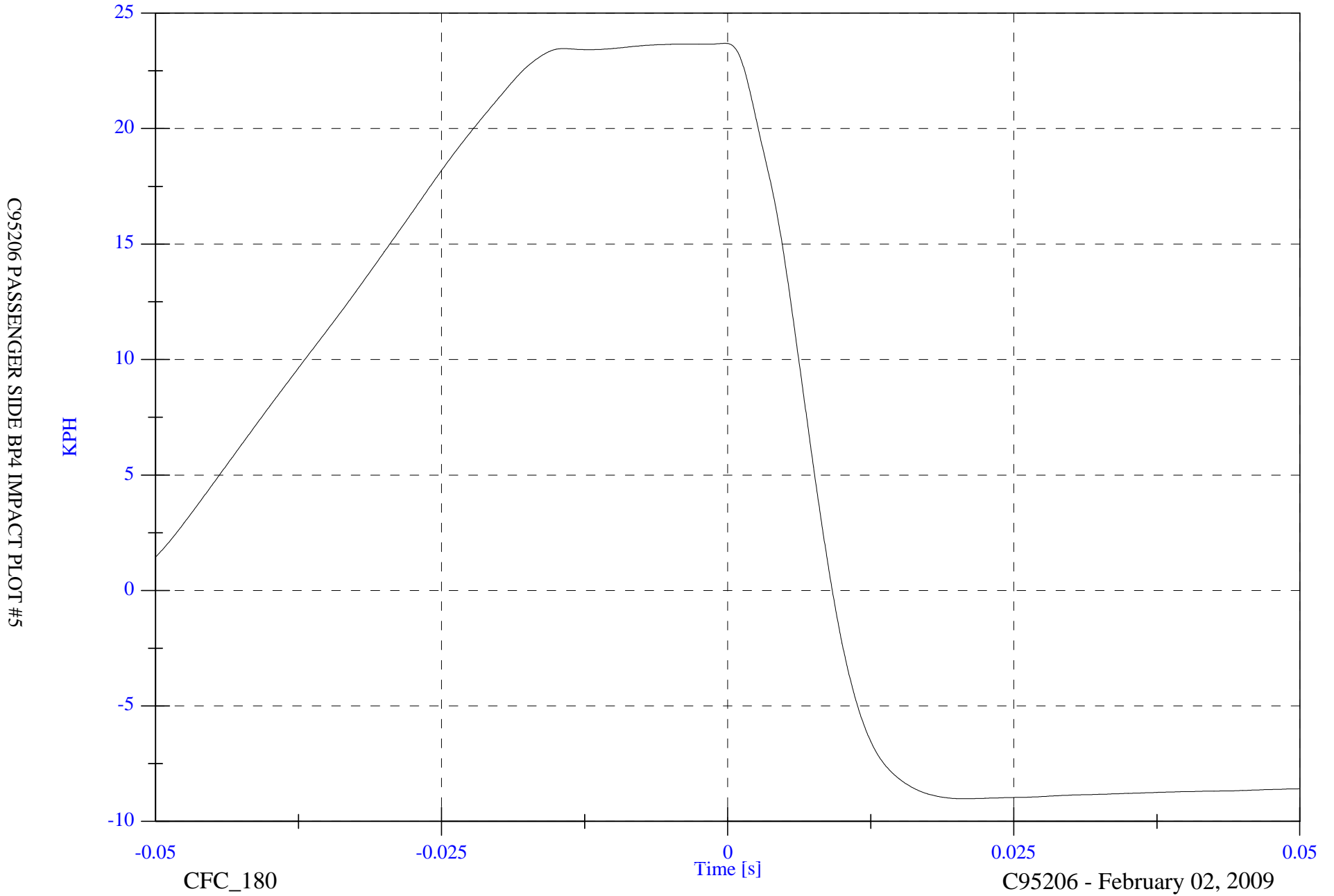


FMVSS 201U 09 Nissan Sentra

Max: 23.7 [KPH] at -0.000 [s]

Min: -9.0 [KPH] at 0.021 [s]

Headform Velocity



C95206 PASSENGER SIDE BP4 IMPACT PLOT #5

CFC_180

C95206 - February 02, 2009



PRE-IMPACT BP4



POST-IMPACT BP4

VEHICLE YEAR/MAKE/MODEL/STYLE:	2009 Nissan Sentra
VIN:	3N1AB61E39L608724
DATE OF MANUFACTURE:	10/08(SEE CERTIFICATION LABEL)
COLOR:	Gray

Test Number:	05
Test Date:	02/02/09
Target Location:	UPPER ROOF
Target Code:	URRSR
Horizontal Impact Angle:	90°
Vertical Impact Angle:	30°
Ambient Temperature:	20°C
Relative Humidity:	23
Time of Impact:	11:15
Headform Number:	0805

Impact Point Description (from lower midpoint on midsagittal line)					
On Centerline	4	<input type="checkbox"/>	mm right	<input checked="" type="checkbox"/>	mm left
On Centerline	75				mm up



POST-IMPACT URRSR HEADFORM

Free Motion HIC	849.7
HIC(d)	807.4
Impact Velocity (kph)	23.63
HIC T1 (msec)	4.5
HIC T2 (msec)	11.5

FMVSS 201U 09 Nissan Sentra C95206 - URRSR

FMH Headform 0805

Location: URRSR

Test Date: February 02, 2009

Work File: URRSR

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

Lab Temperature: 20 C

HICd: 807.4

Lab Humidity: 23 %

HIC (36ms): 849.7

Velocity at Impact: 23.63 KPH

t1: 4.5 msec

t2: 11.5 msec

Free Flight Distance: 224.84 mm

Duration: 7.0 msec

Average Acceleration: 11.3 g

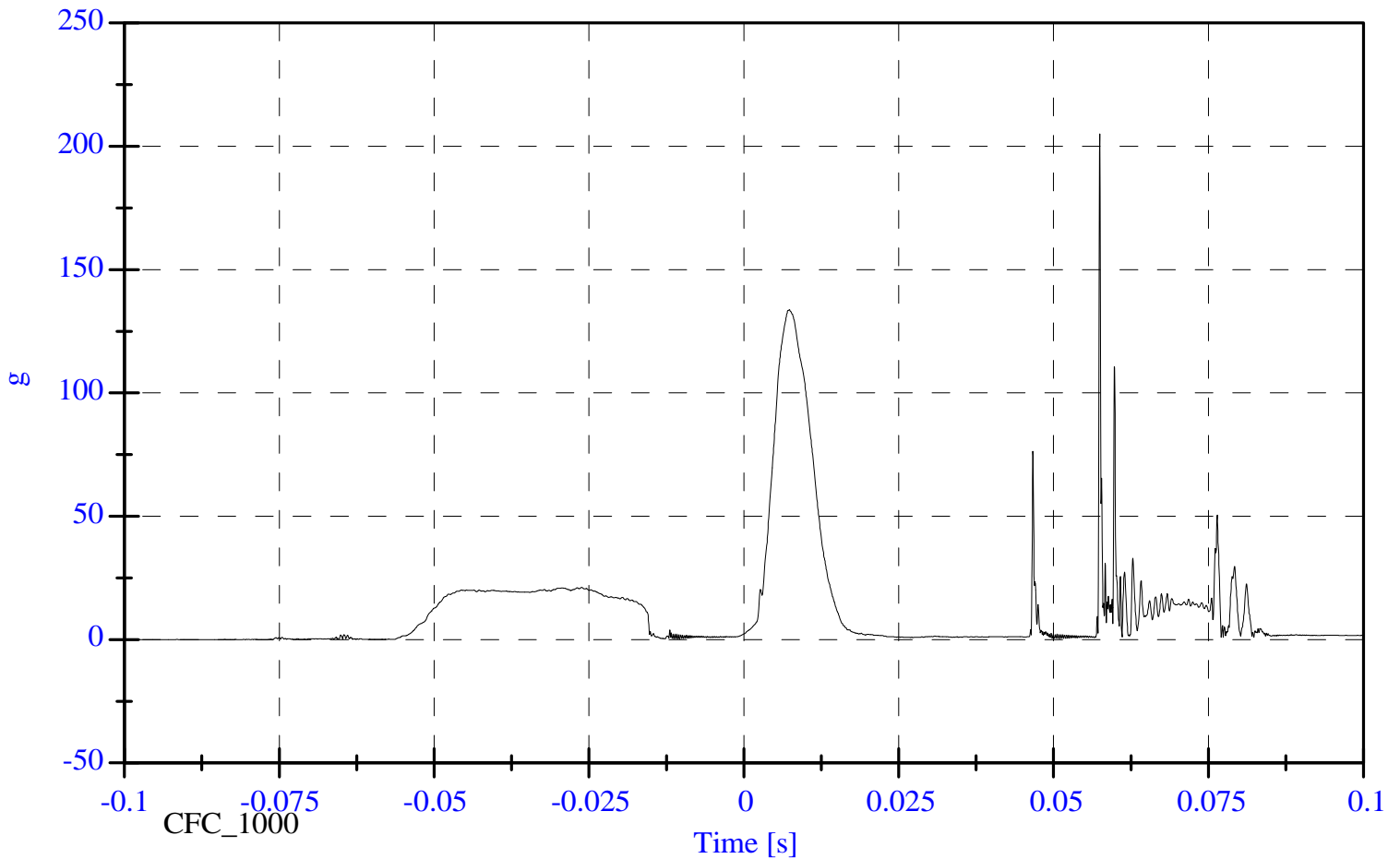
Maximum: 133.8 g

FMVSS 201U 09 Nissan Sentra

Headform Resultant

Max: 133.8 [g] at 0.007 [s]

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

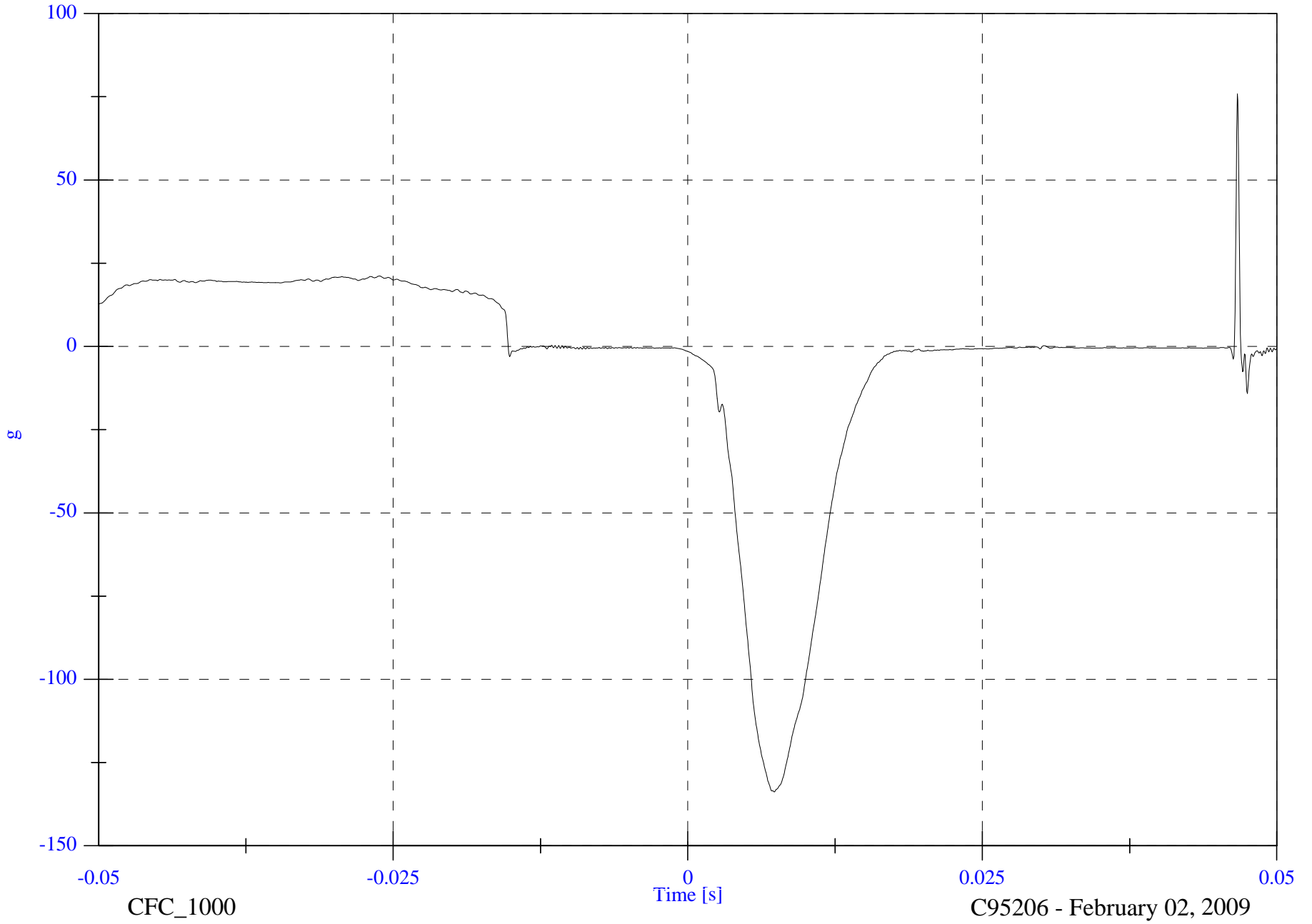


FMVSS 201U 09 Nissan Sentra

Headform X Acceleration

Max: 75.8 [g] at 0.047 [s]
Min: -133.8 [g] at 0.007 [s]

C95206 PASSENGER SIDE URRSR IMPACT PLOT #1



CFC_1000

C95206 - February 02, 2009

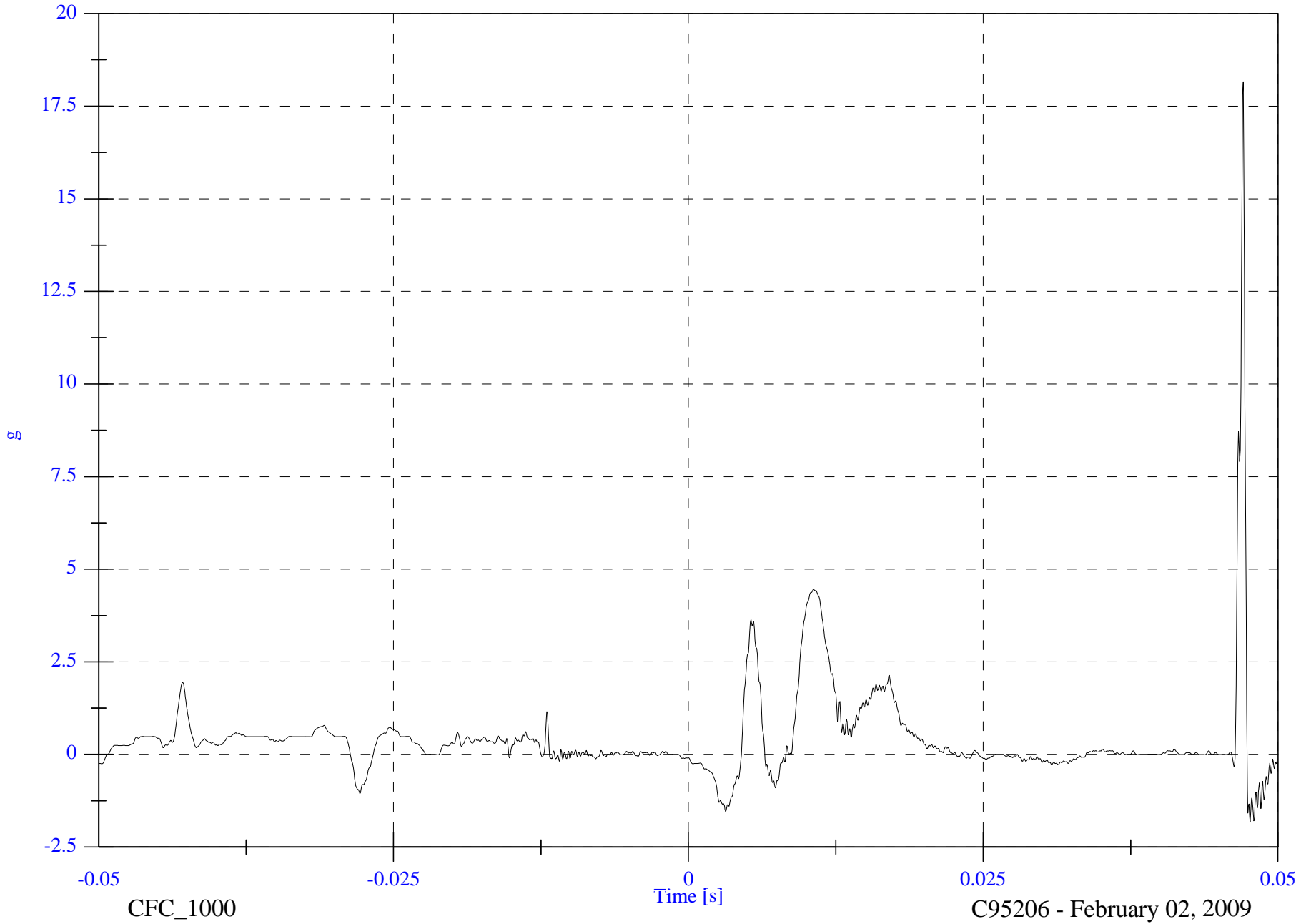
FMVSS 201U 09 Nissan Sentra

Headform Y Acceleration

Max: 18.2 [g] at 0.047 [s]

Min: -1.8 [g] at 0.048 [s]

C95206 PASSENGER SIDE URRSR IMPACT PLOT #2



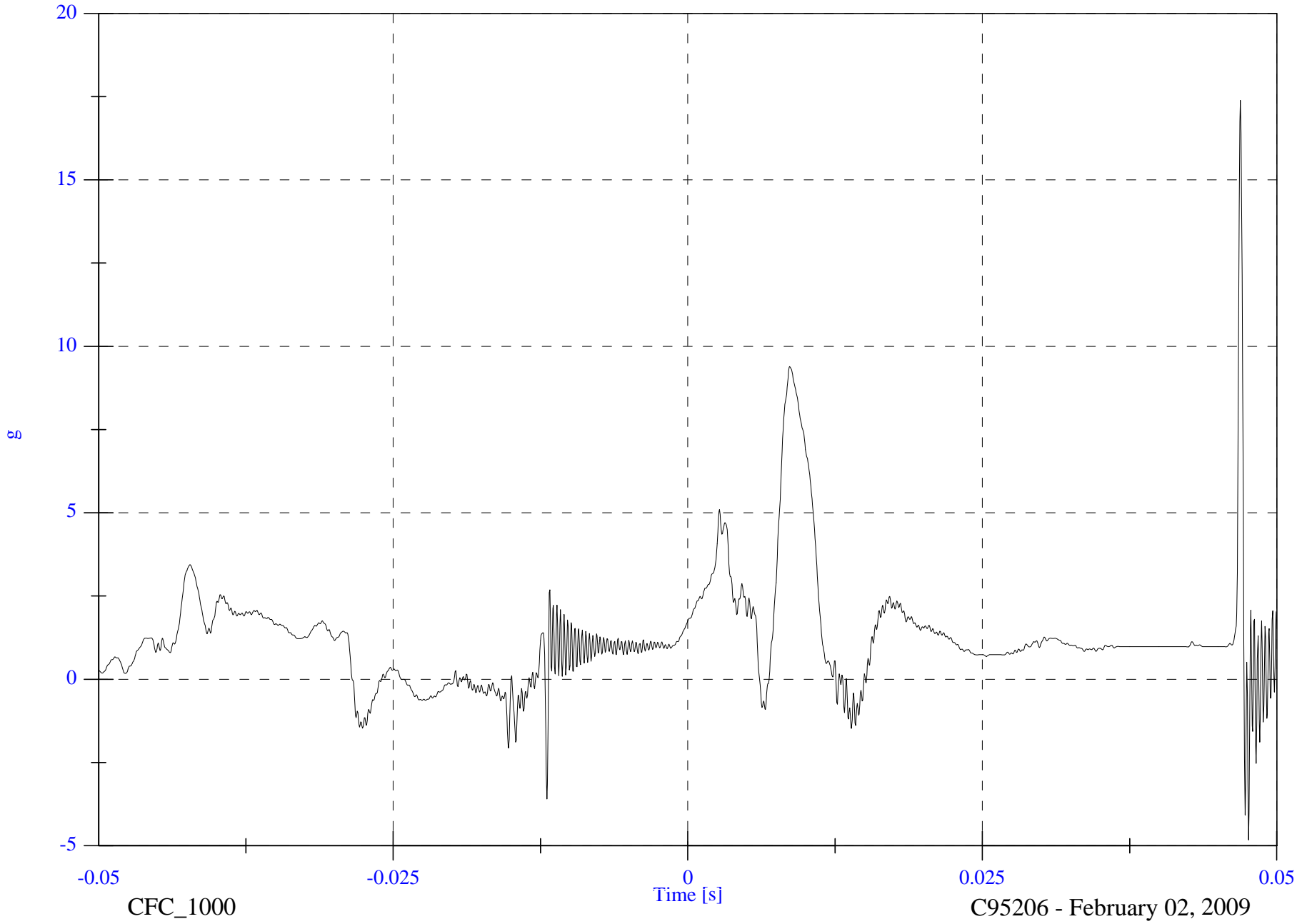
FMVSS 201U 09 Nissan Sentra

Headform Z Acceleration

Max: 17.4 [g] at 0.047 [s]

Min: -4.8 [g] at 0.048 [s]

C95206 PASSENGER SIDE URRSR IMPACT PLOT #3



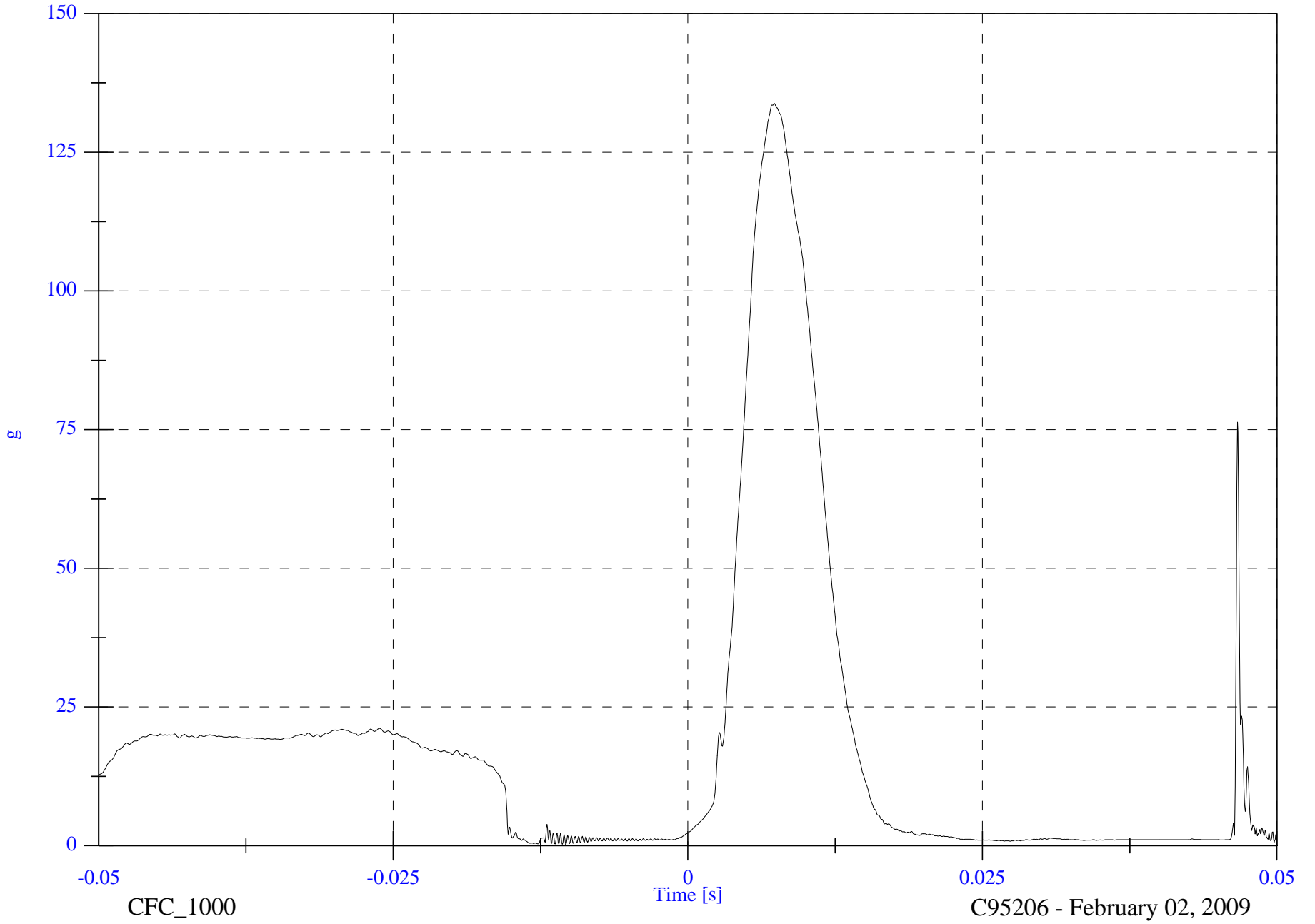
FMVSS 201U 09 Nissan Sentra

Headform Resultant

Max: 133.8 [g] at 0.007 [s]

Min: 0.2 [g] at -0.010 [s]

C95206 PASSENGER SIDE URRSR IMPACT PLOT #4

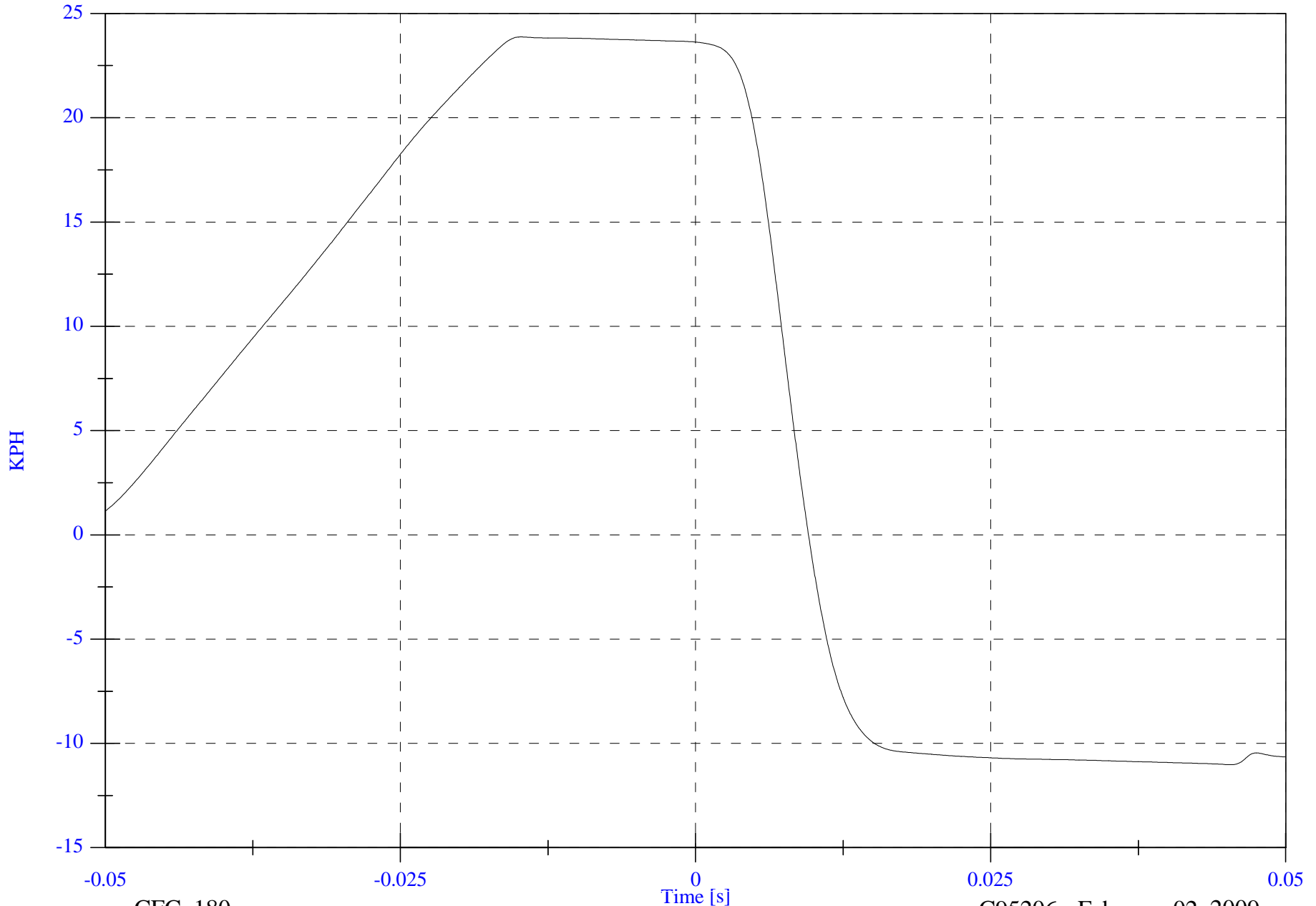


FMVSS 201U 09 Nissan Sentra

Max: 23.9 [KPH] at -0.015 [s]

Min: -11.0 [KPH] at 0.045 [s]

Headform Velocity



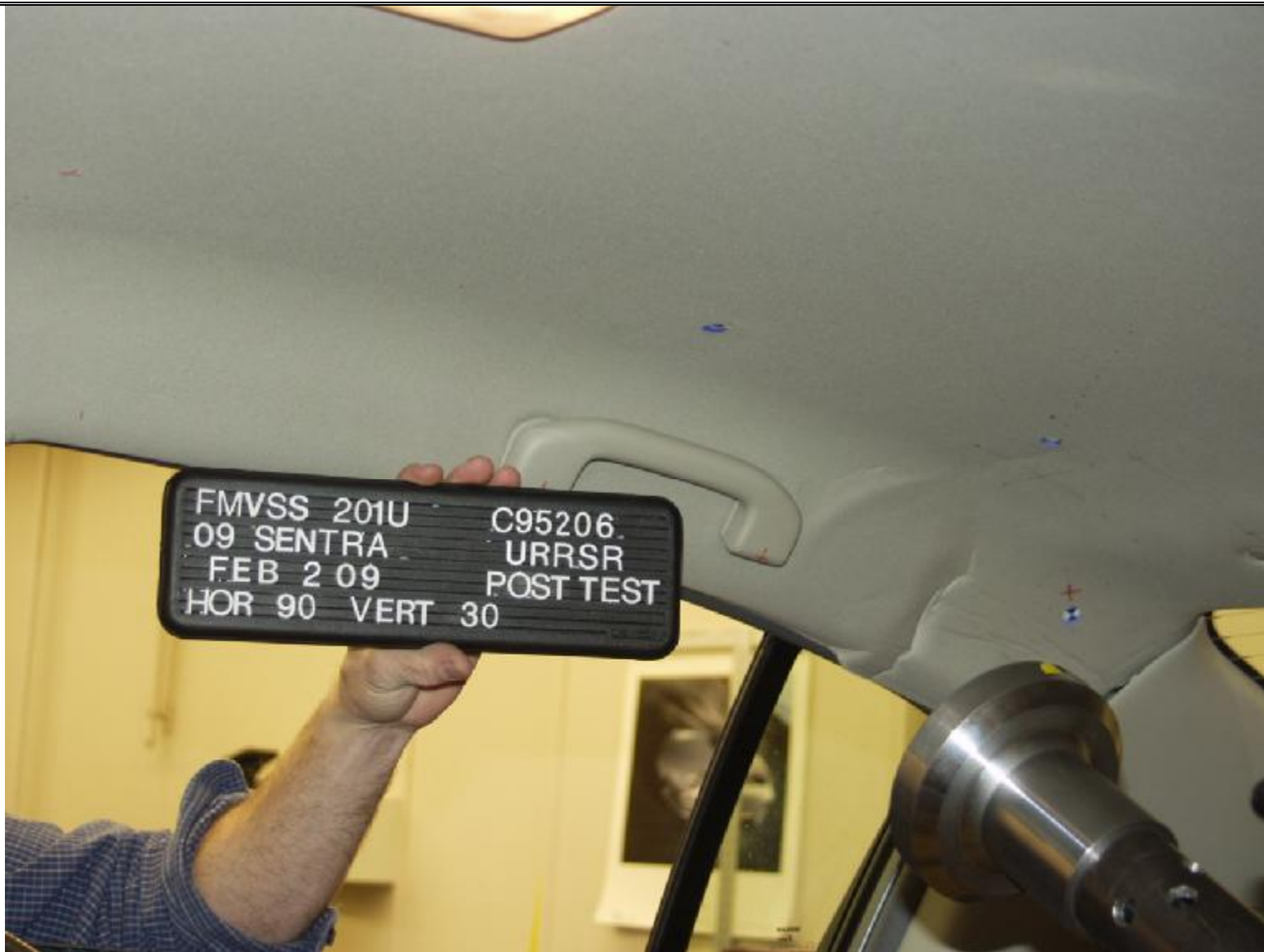
C95206 PASSENGER SIDE URRSR IMPACT PLOT #5

CFC_180

C95206 - February 02, 2009



PRE-IMPACT URRSR



POST-IMPACT URRSR

VEHICLE YEAR/MAKE/MODEL/STYLE:	2009 Nissan Sentra
VIN:	3N1AB61E39L608724
DATE OF MANUFACTURE:	10/08(SEE CERTIFICATION LABEL)
COLOR:	Gray

Test Number:	06
Test Date:	02/02/09
Target Location:	B-PILLAR
Target Code:	BP1
Horizontal Impact Angle:	90°
Vertical Impact Angle:	5°
Ambient Temperature:	20°C
Relative Humidity:	23
Time of Impact:	12:00
Headform Number:	0062

Impact Point Description (from lower midpoint on midsagittal line)					
On Centerline	13	<input checked="" type="checkbox"/>	mm right	<input type="checkbox"/>	mm left
On Centerline	25				mm up



POST-IMPACT BP1 HEADFORM

Free Motion HIC	368.4
HIC(d)	444.3
Impact Velocity (kph)	18.5
HIC T1 (msec)	3.5
HIC T2 (msec)	11.6

FMVSS 201U 09 Nissan Sentra C95206 - BP1

FMH Headform 0062

Location: BP1

Test Date: February 02, 2009

Work File: BP1

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

Lab Temperature: 20 C

HICd: 444.3

Lab Humidity: 23 %

HIC (36ms): 368.4

Velocity at Impact: 18.50 KPH

t1: 3.5 msec

t2: 11.6 msec

Free Flight Distance: 219.83 mm

Duration: 8.1 msec

Average Acceleration: 7.1 g

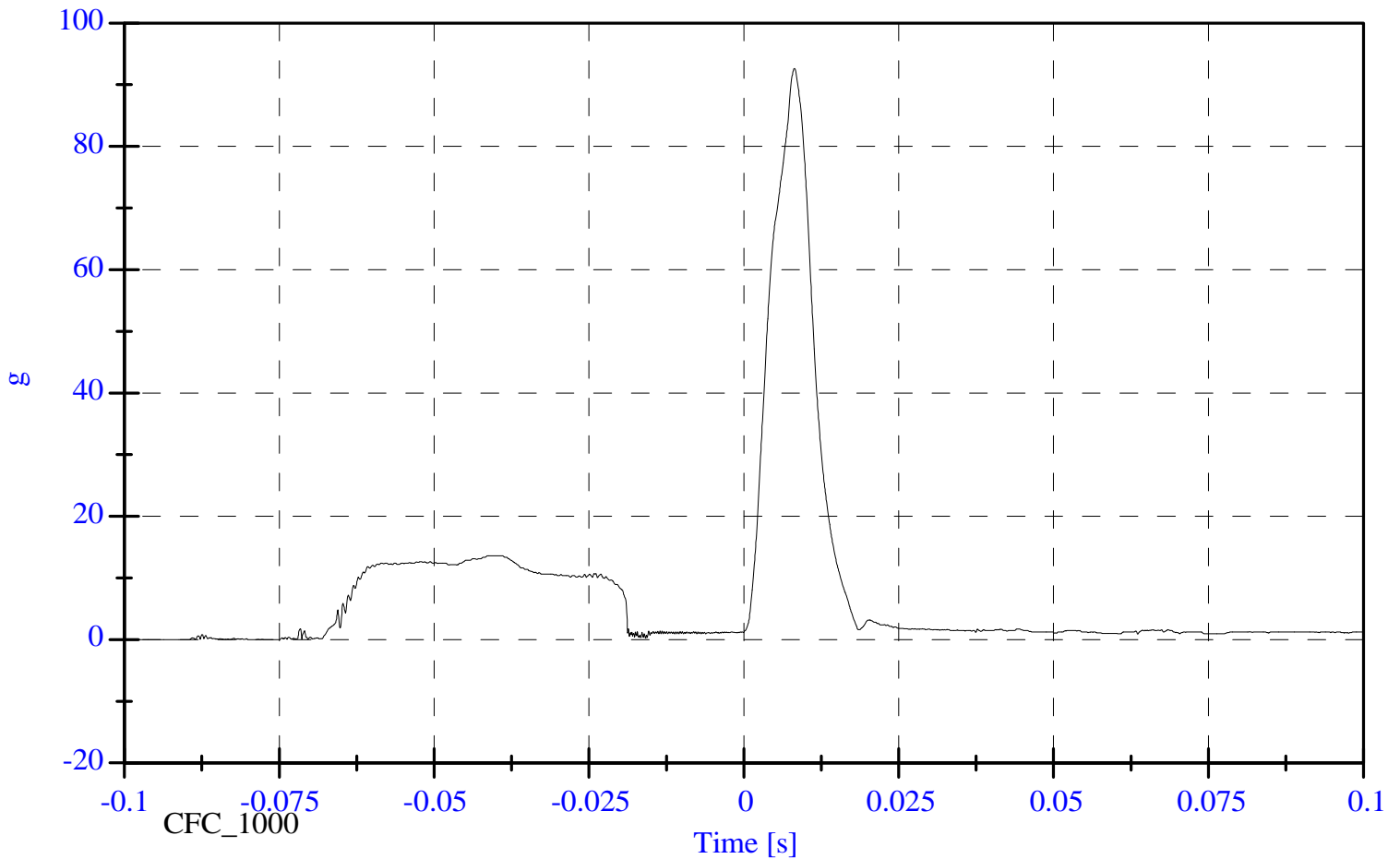
Maximum: 92.6 g

FMVSS 201U 09 Nissan Sentra

Headform Resultant

Max: 92.6 [g] at 0.008 [s]

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



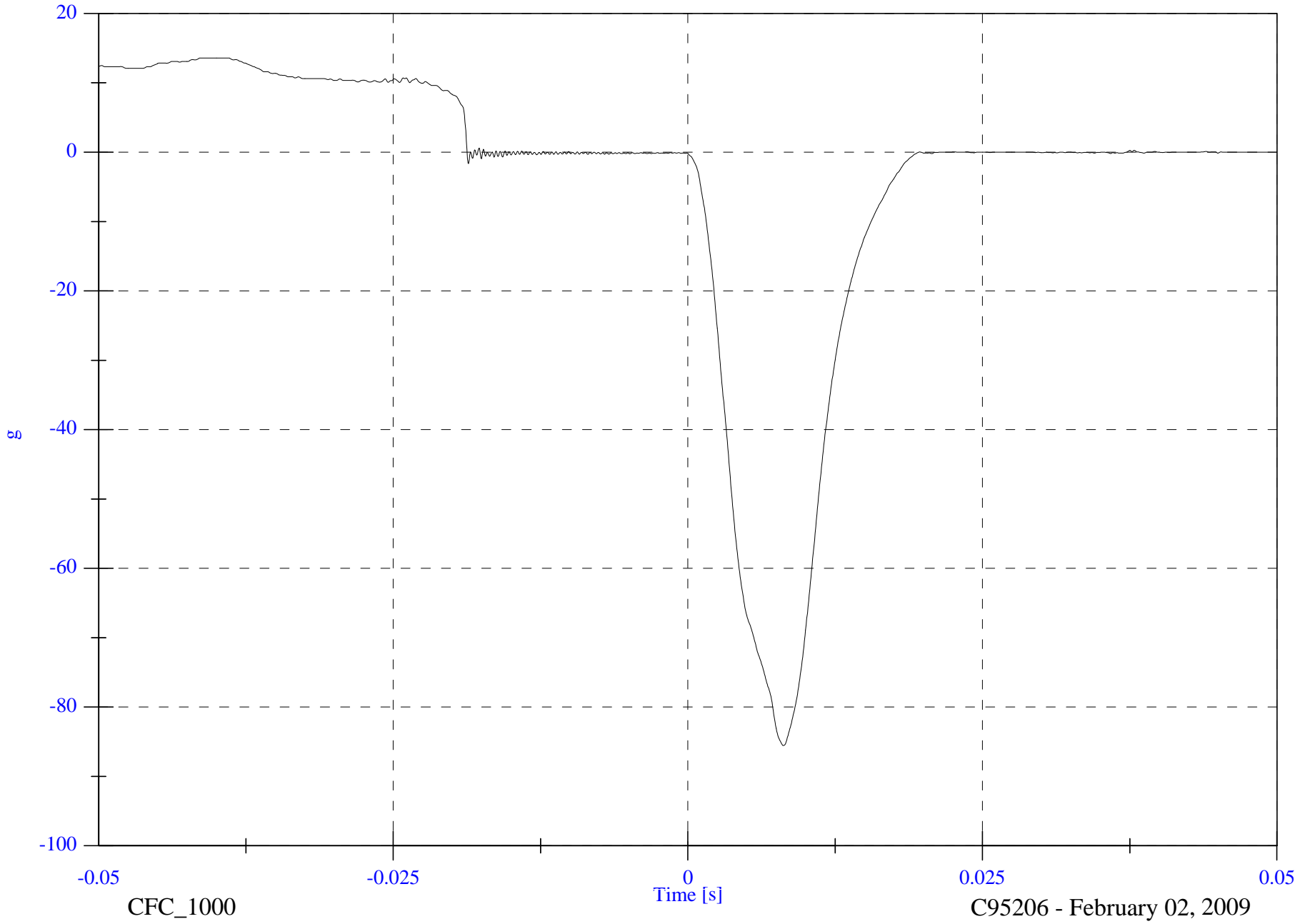
FMVSS 201U 09 Nissan Sentra

Headform X Acceleration

Max: 13.6 [g] at -0.039 [s]

Min: -85.6 [g] at 0.008 [s]

C95206 PASSENGER SIDE BPI IMPACT PLOT #1



CFC_1000

C95206 - February 02, 2009

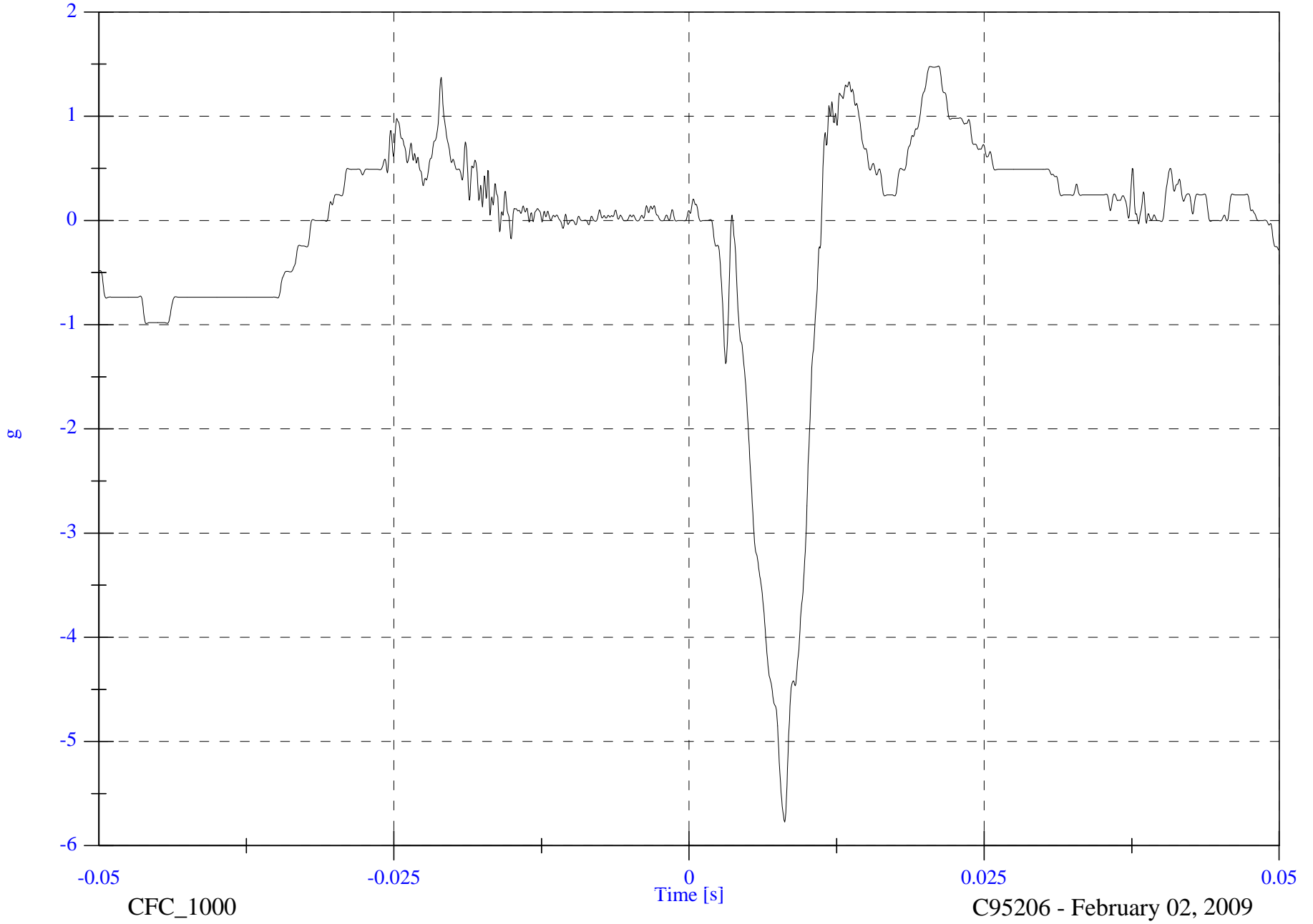
FMVSS 201U 09 Nissan Sentra

Headform Y Acceleration

Max: 1.5 [g] at 0.021 [s]

Min: -5.8 [g] at 0.008 [s]

C95206 PASSENGER SIDE BP1 IMPACT PLOT #2



CFC_1000

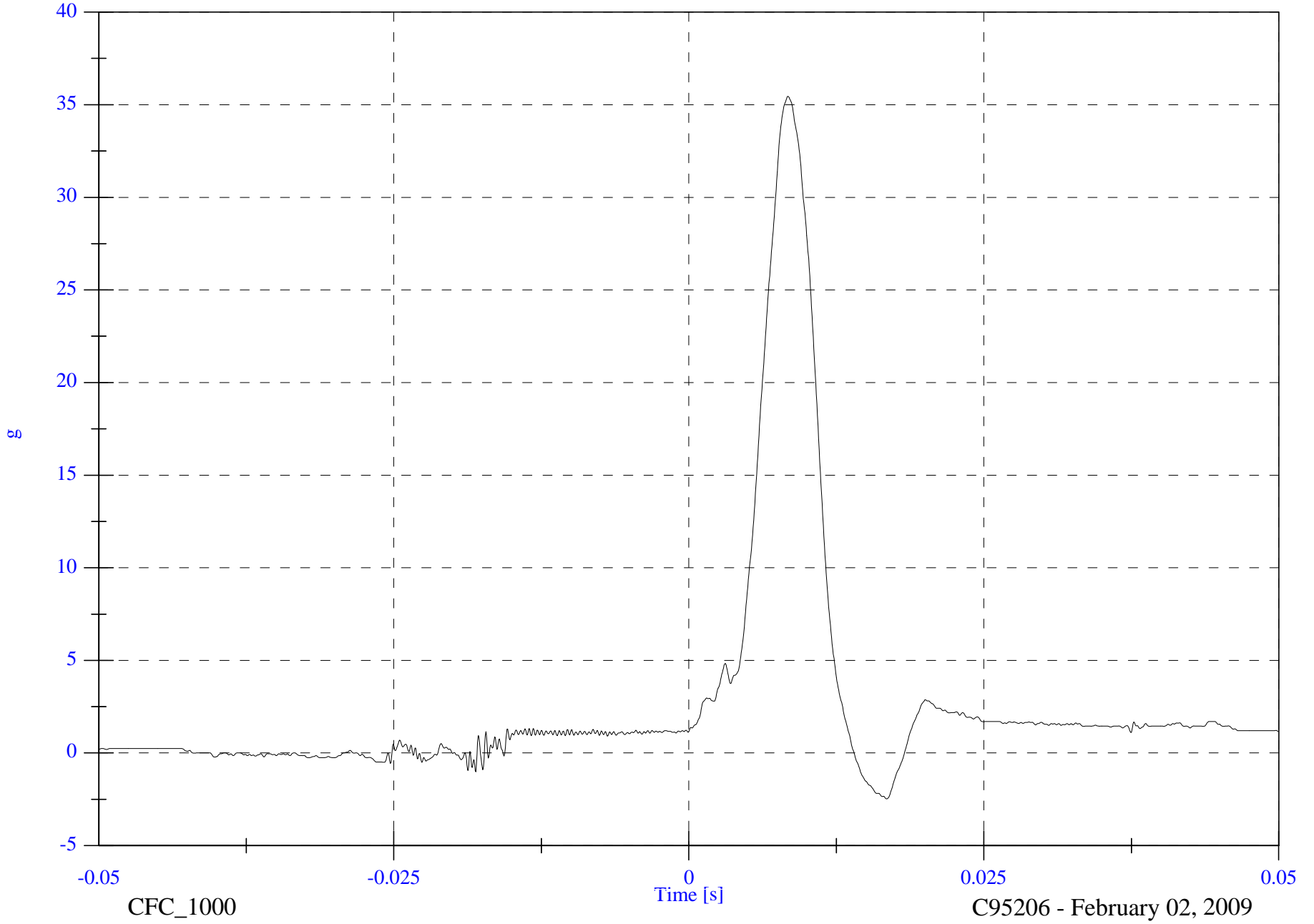
C95206 - February 02, 2009

FMVSS 201U 09 Nissan Sentra

Headform Z Acceleration

Max: 35.5 [g] at 0.008 [s]
Min: -2.5 [g] at 0.017 [s]

C95206 PASSENGER SIDE BP1 IMPACT PLOT #3



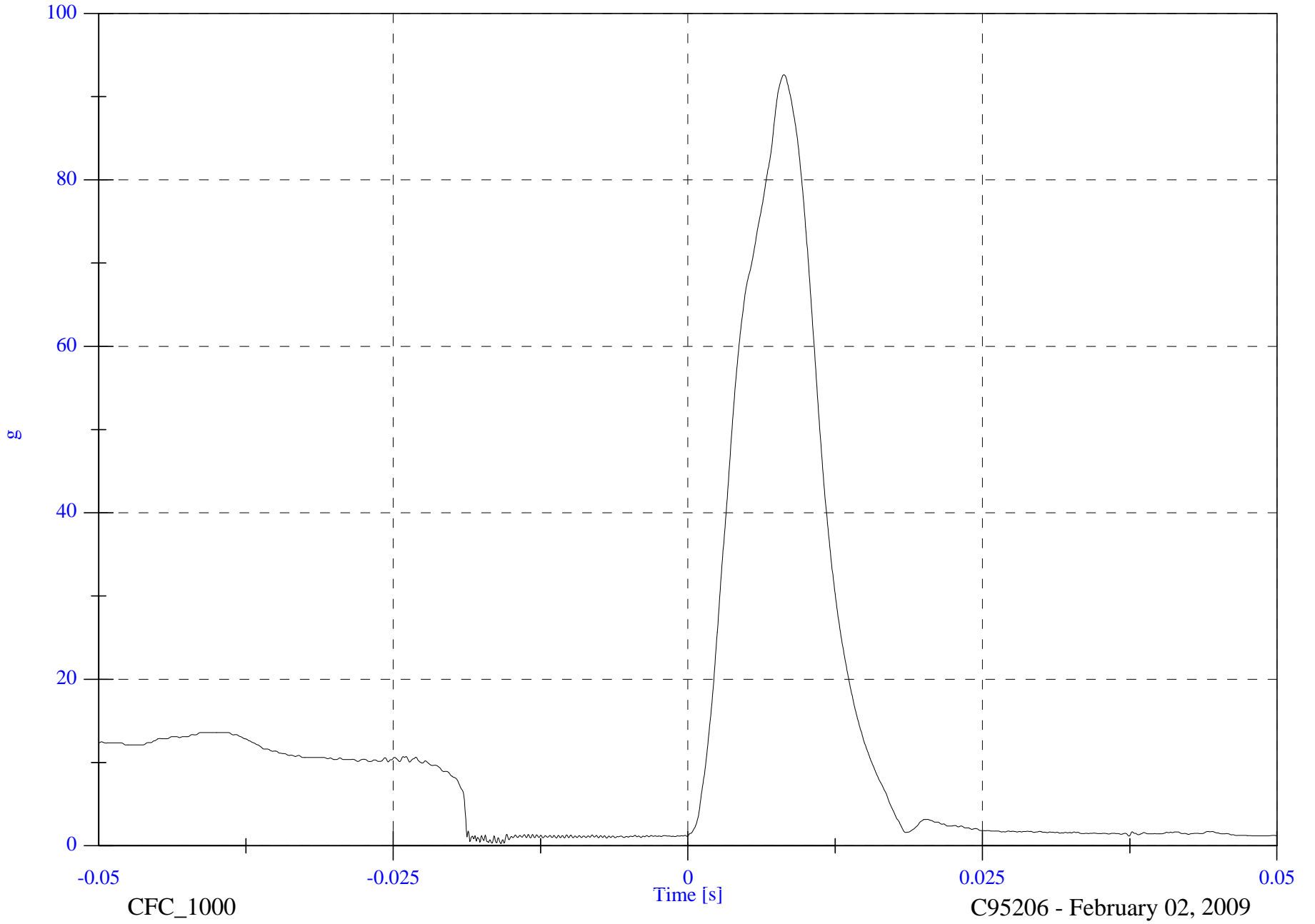
FMVSS 201U 09 Nissan Sentra

Headform Resultant

Max: 92.6 [g] at 0.008 [s]

Min: 0.3 [g] at -0.016 [s]

C95206 PASSENGER SIDE BPI IMPACT PLOT #4



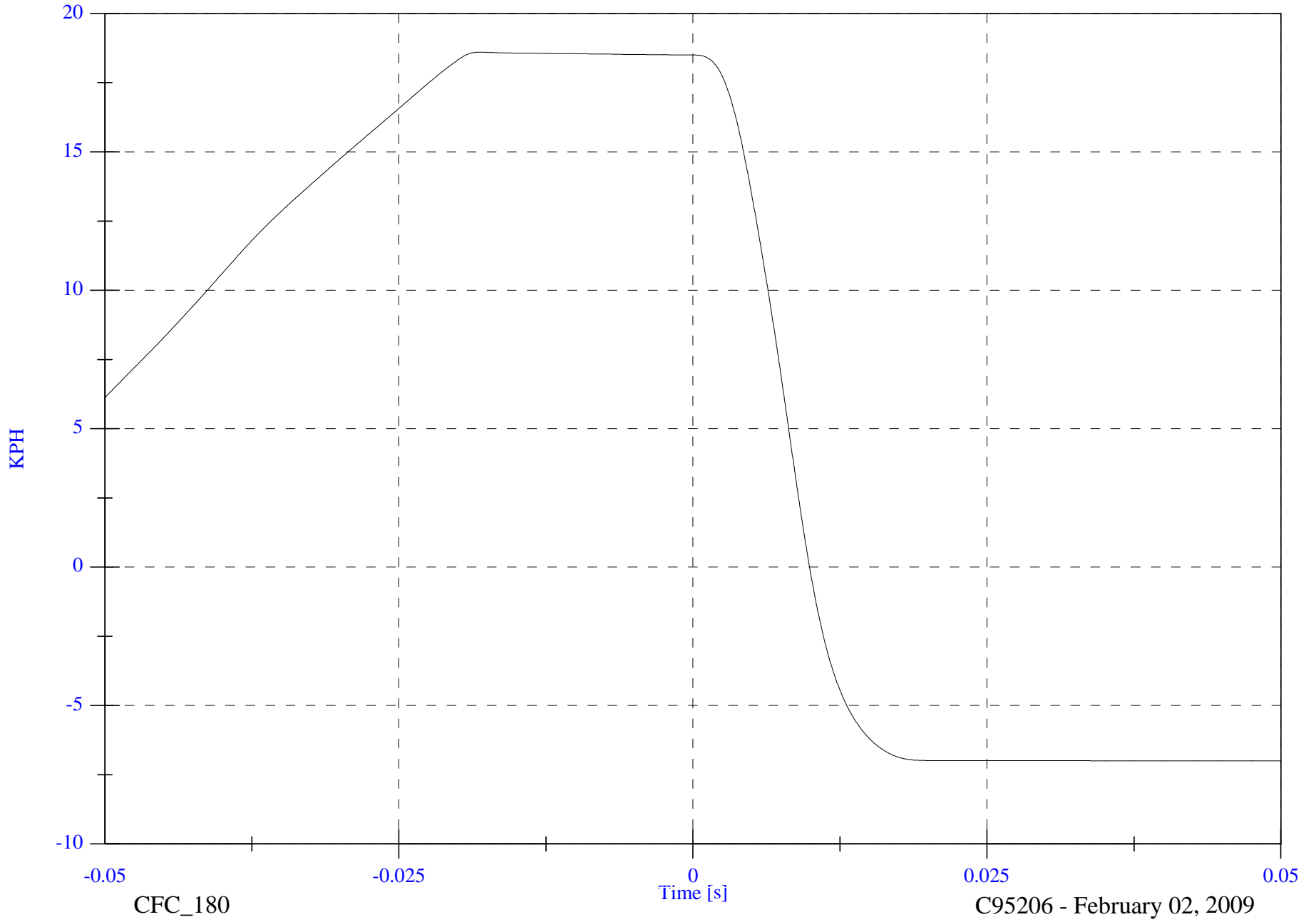
FMVSS 201U 09 Nissan Sentra

Headform Velocity

Max: 18.6 [KPH] at -0.018 [s]

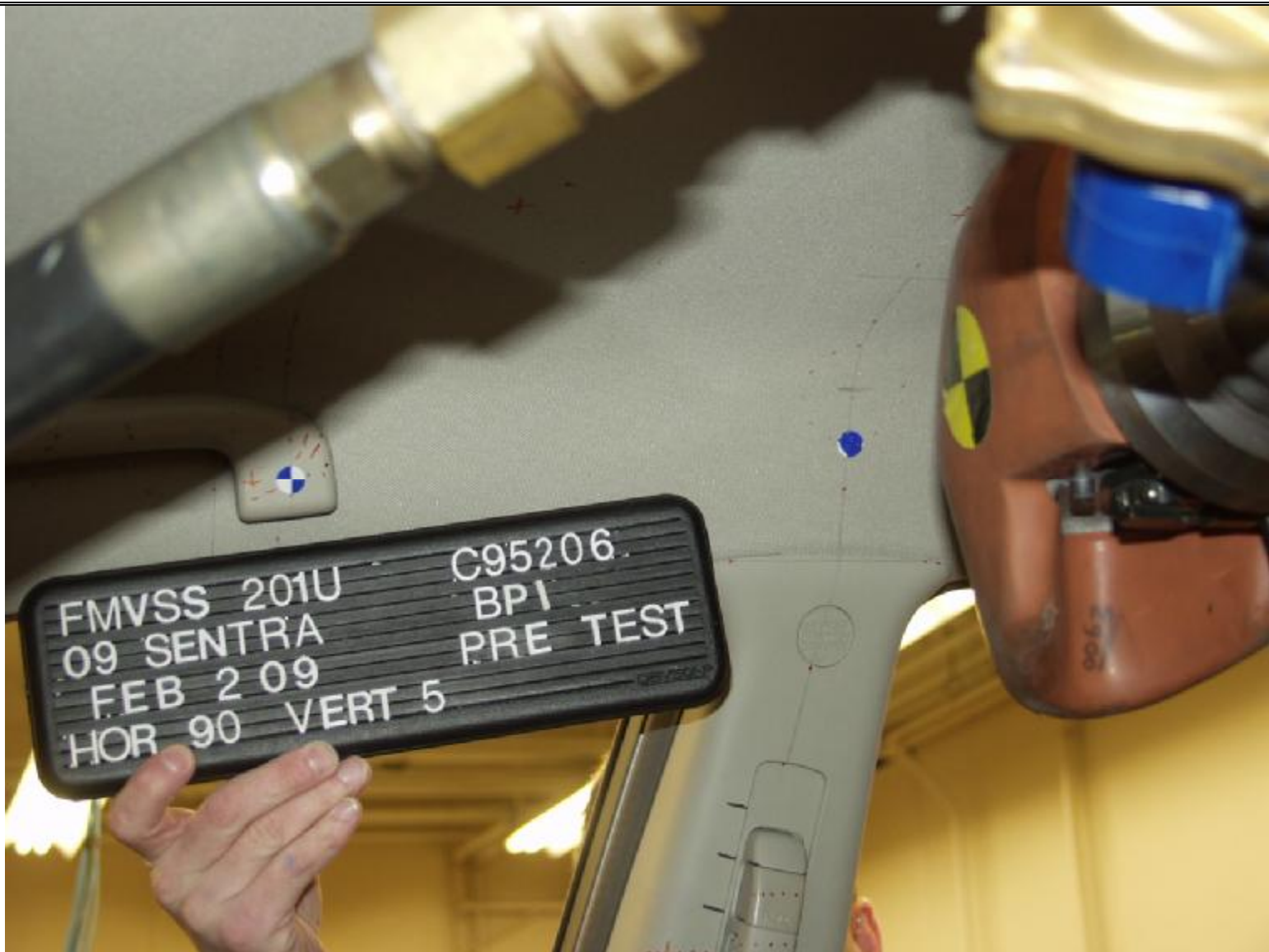
Min: -7.0 [KPH] at 0.037 [s]

C95206 PASSENGER SIDE BP1 IMPACT PLOT #5



CFC_180

C95206 - February 02, 2009



PRE-IMPACT BP1

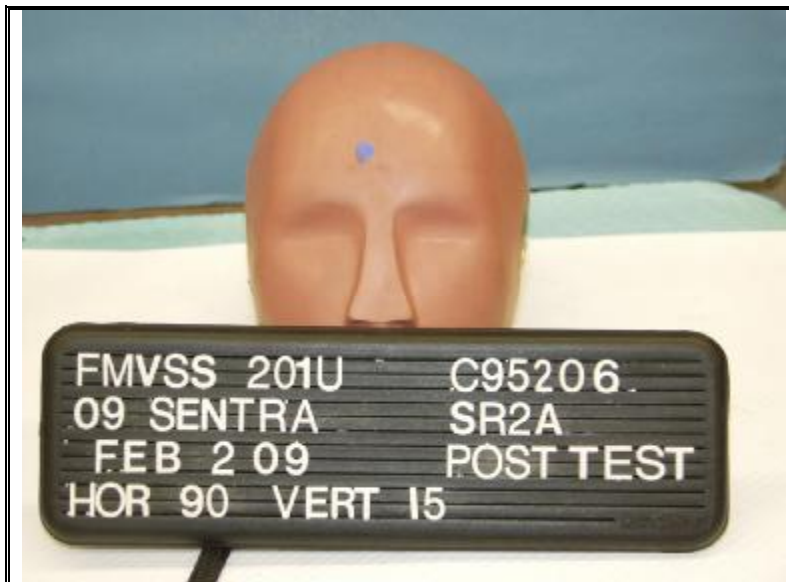


POST-IMPACT BPI

VEHICLE YEAR/MAKE/MODEL/STYLE:	2009 Nissan Sentra
VIN:	3N1AB61E39L608724
DATE OF MANUFACTURE:	10/08(SEE CERTIFICATION LABEL)
COLOR:	Gray

Test Number:	07
Test Date:	02/02/09
Target Location:	SIDE RAIL
Target Code:	SR2A
Horizontal Impact Angle:	90°
Vertical Impact Angle:	15°
Ambient Temperature:	20°C
Relative Humidity:	23
Time of Impact:	13:30
Headform Number:	1142

Impact Point Description (from lower midpoint on midsagittal line)					
On Centerline	6	<input checked="" type="checkbox"/>	mm right	<input type="checkbox"/>	mm left
On Centerline	5				mm up



POST-IMPACT SR2A HEADFORM

Free Motion HIC	117.5
HIC(d)	255.0
Impact Velocity (kph)	18.34
HIC T1 (msec)	1.2
HIC T2 (msec)	11.9

FMVSS 201U 09 Nissan Sentra C95206 - SR2A

FMH Headform 1142

Location: SR2A

Test Date: February 02, 2009

Work File: SR2A

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

Lab Temperature: 20 C

HICd: 255.0

Lab Humidity: 23 %

HIC (36ms): 117.5

Velocity at Impact: 18.34 KPH

t1: 1.2 msec

t2: 11.9 msec

Free Flight Distance: 215.06 mm

Duration: 10.7 msec

Average Acceleration: 6.3 g

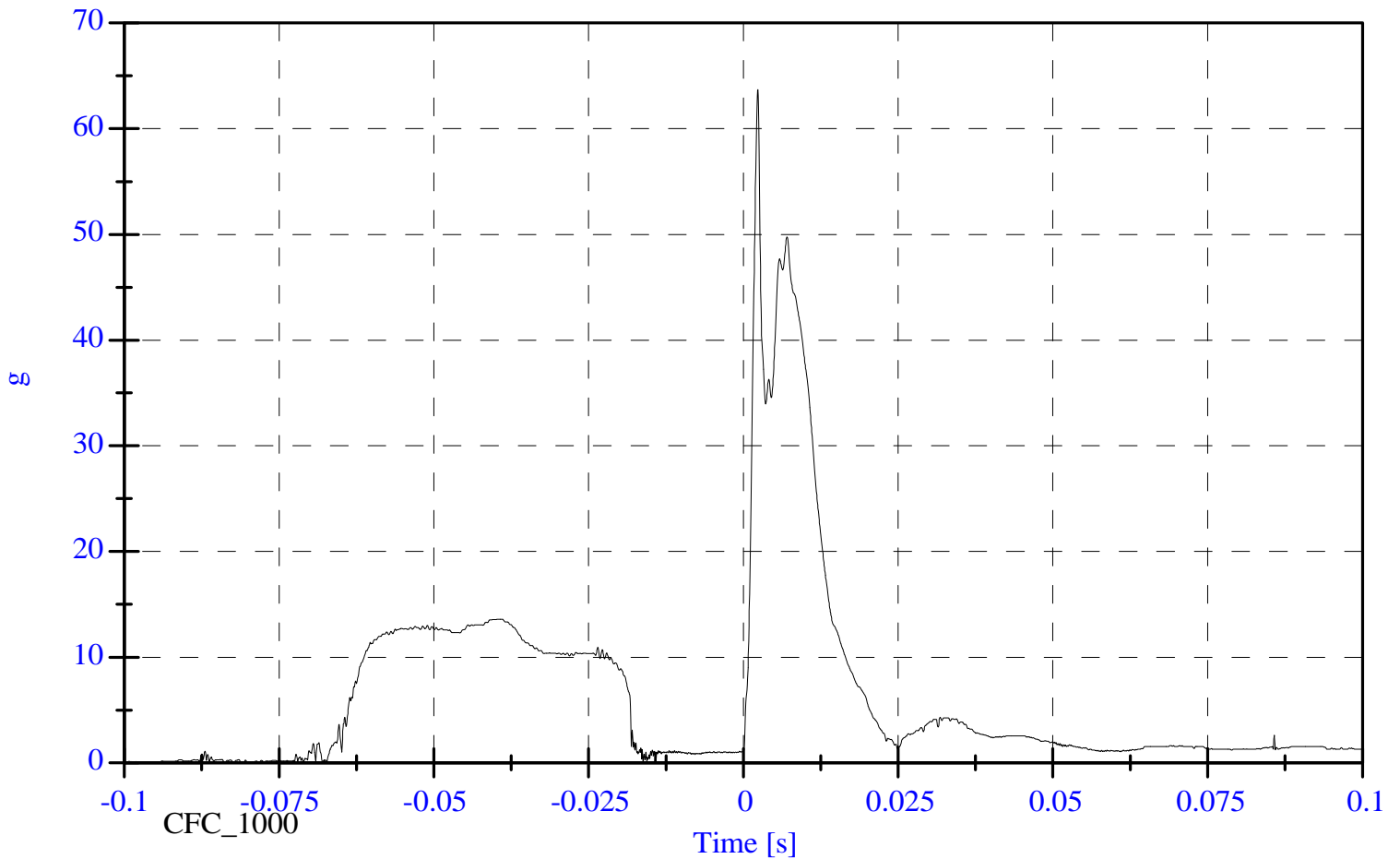
Maximum: 63.7 g

FMVSS 201U 09 Nissan Sentra

Headform Resultant

Max: 63.7 [g] at 0.002 [s]

Min: 0.0 [g] at -0.095 [s]



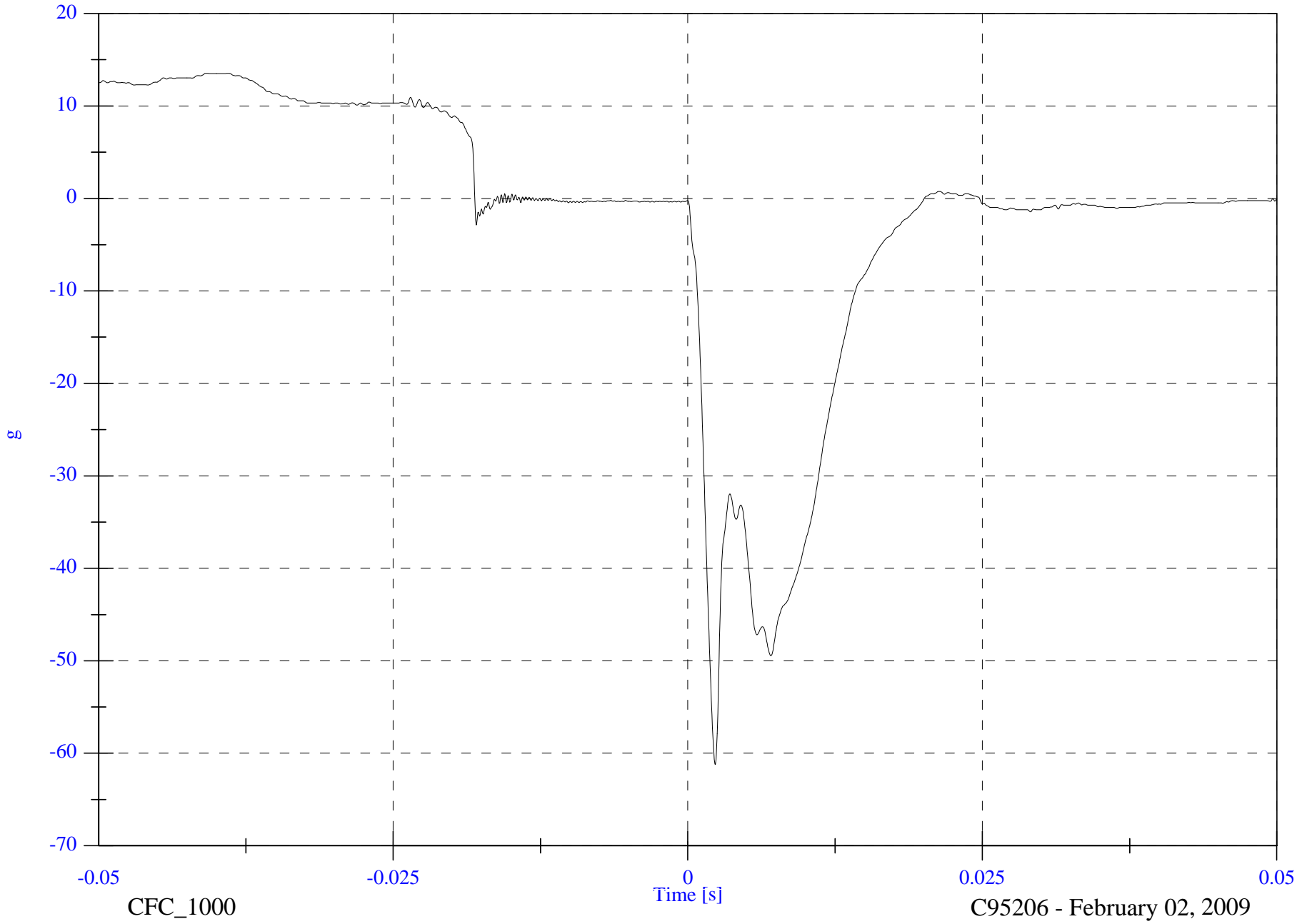
FMVSS 201U 09 Nissan Sentra

Headform X Acceleration

Max: 13.5 [g] at -0.041 [s]

Min: -61.2 [g] at 0.002 [s]

C95206 PASSENGER SIDE SR2A IMPACT PLOT #1



CFC_1000

C95206 - February 02, 2009

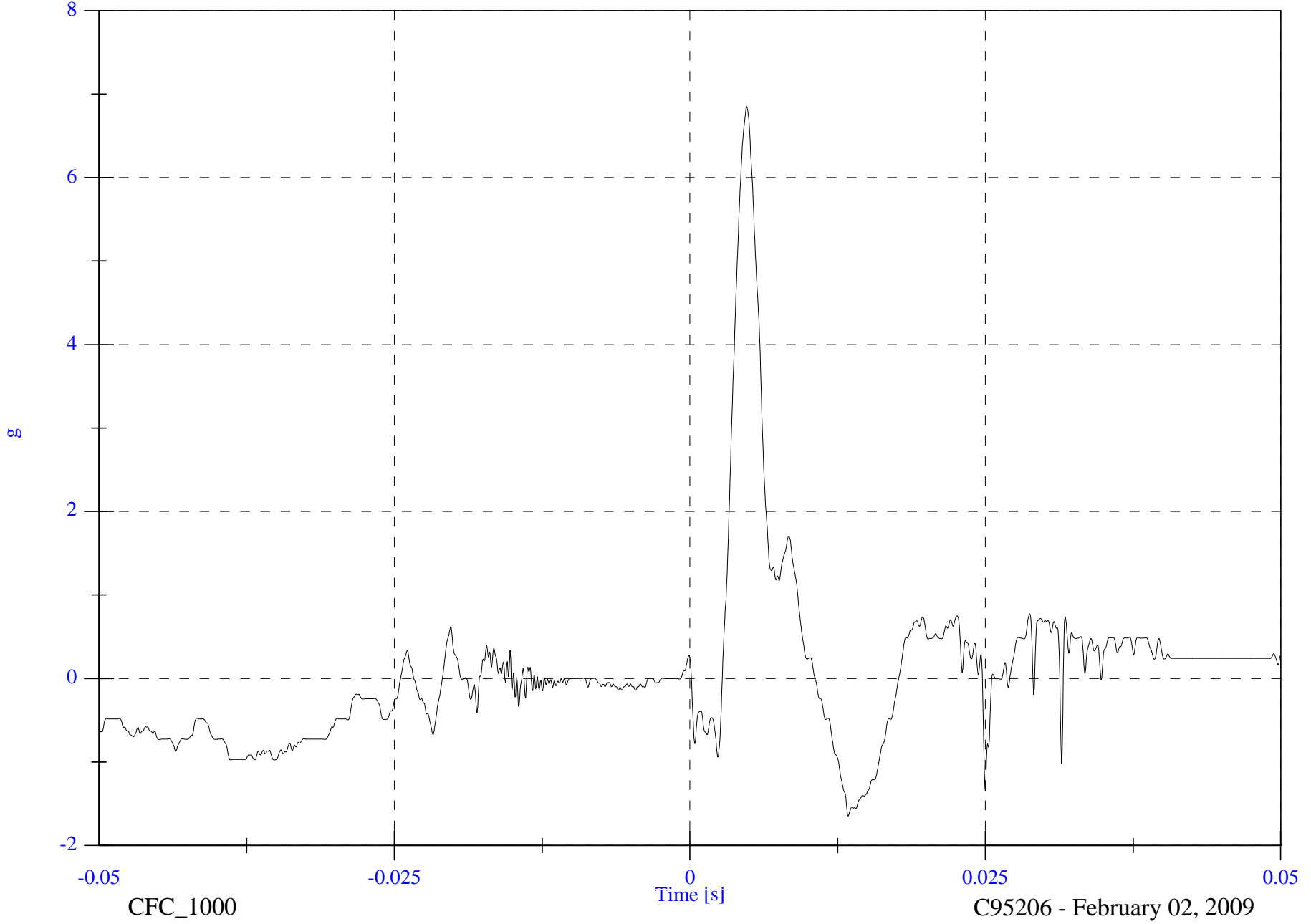
FMVSS 201U 09 Nissan Sentra

Headform Y Acceleration

Max: 6.9 [g] at 0.005 [s]

Min: -1.6 [g] at 0.013 [s]

C95206 PASSENGER SIDE SR2A IMPACT PLOT #2

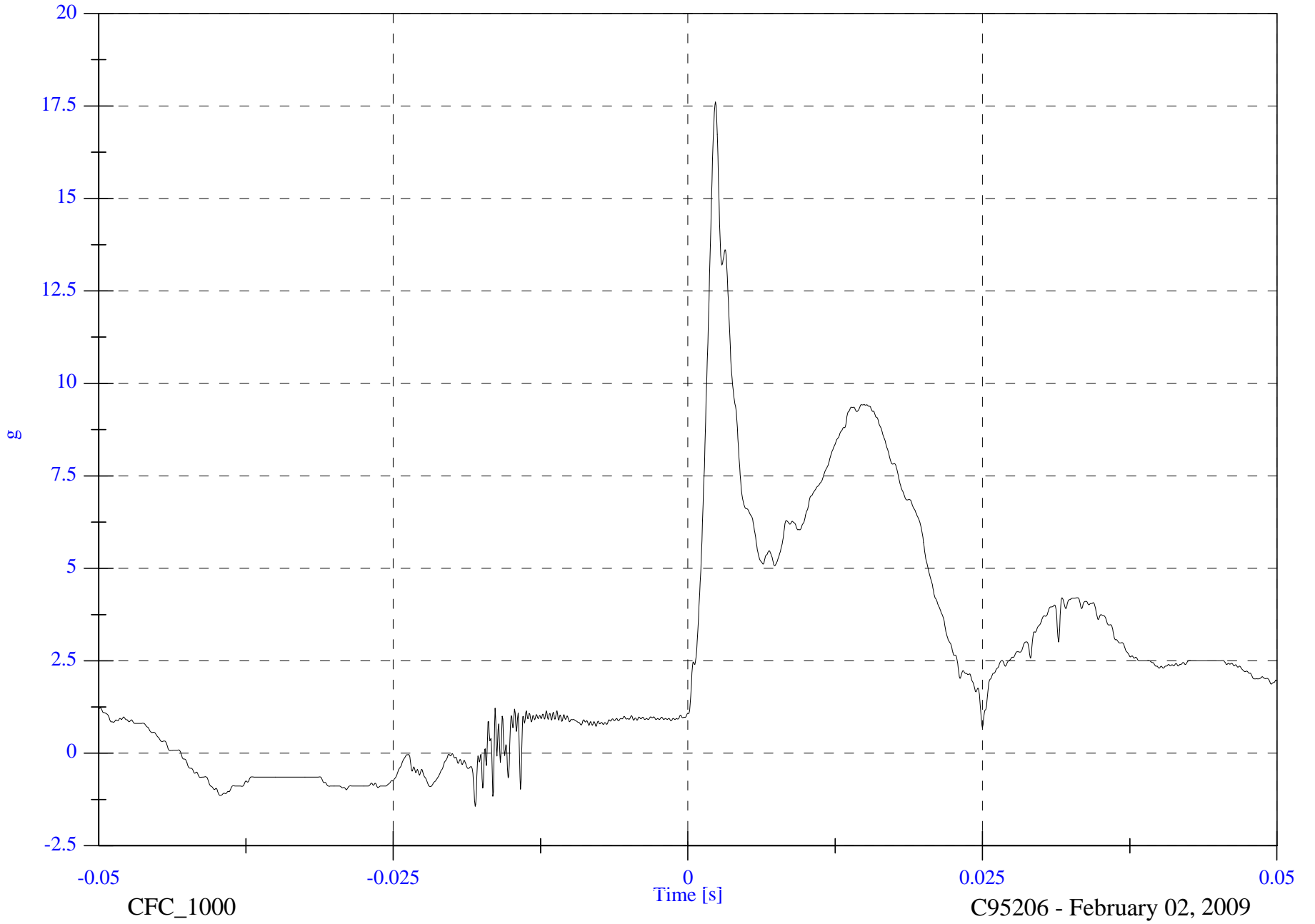


FMVSS 201U 09 Nissan Sentra

Headform Z Acceleration

Max: 17.6 [g] at 0.002 [s]
Min: -1.4 [g] at -0.018 [s]

C95206 PASSENGER SIDE SR2A IMPACT PLOT #3



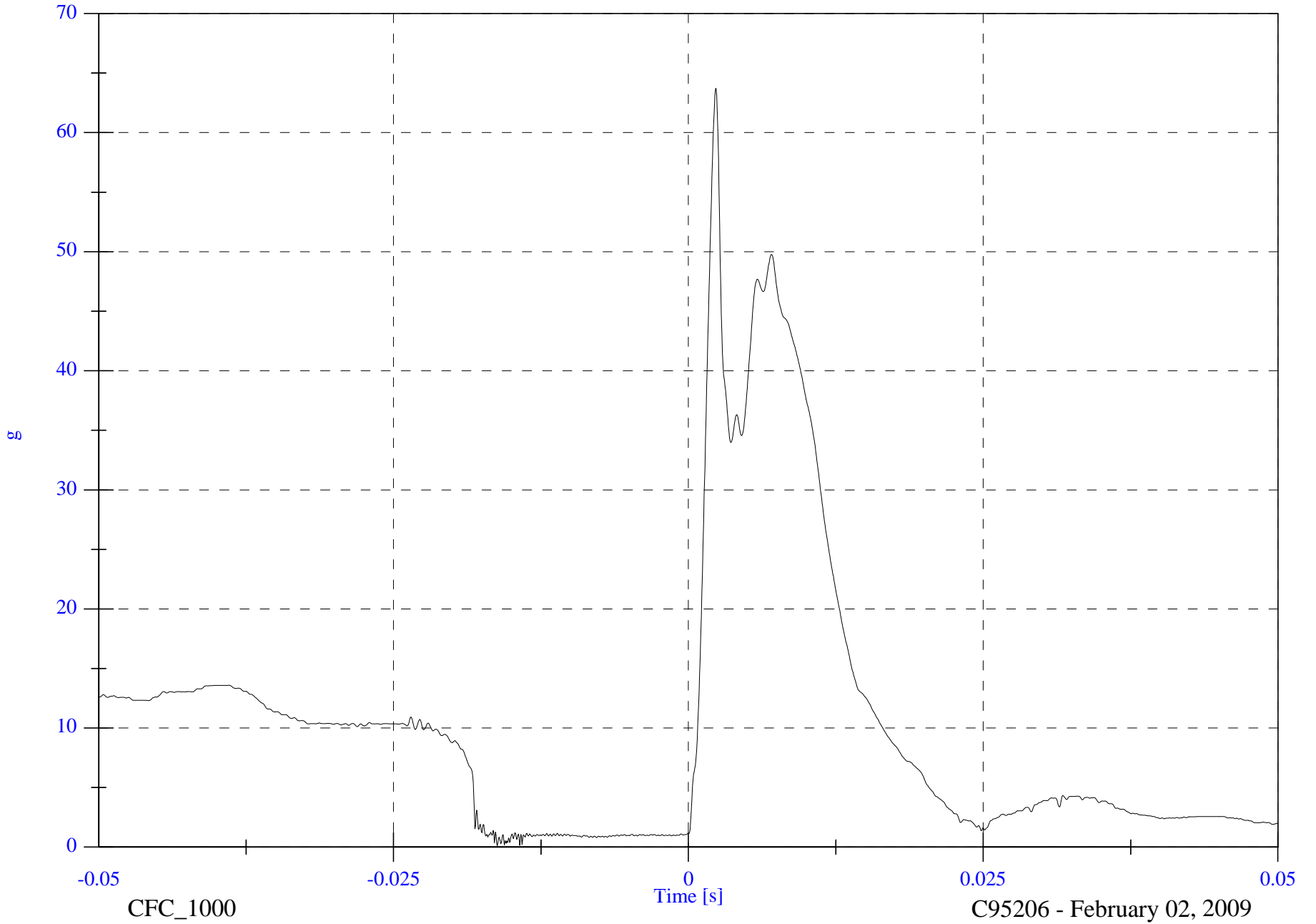
FMVSS 201U 09 Nissan Sentra

Headform Resultant

Max: 63.7 [g] at 0.002 [s]

Min: 0.1 [g] at -0.016 [s]

C95206 PASSENGER SIDE SR2A IMPACT PLOT #4



CFC_1000

C95206 - February 02, 2009

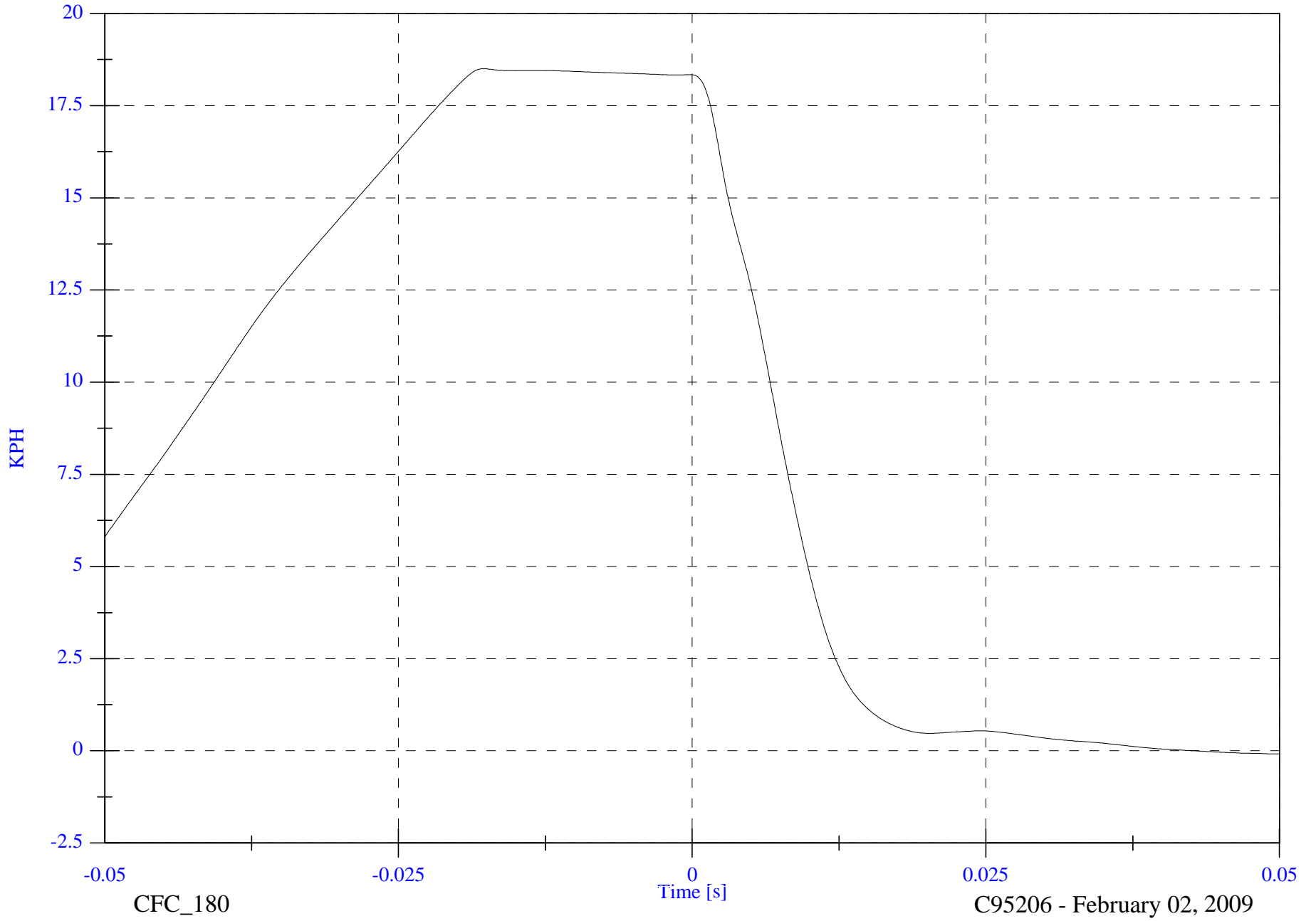
FMVSS 201U 09 Nissan Sentra

Headform Velocity

Max: 18.5 [KPH] at -0.018 [s]

Min: -0.1 [KPH] at 0.050 [s]

C95206 PASSENGER SIDE SR2A IMPACT PLOT #5



CFC_180

C95206 - February 02, 2009



PRE-IMPACT SR2A

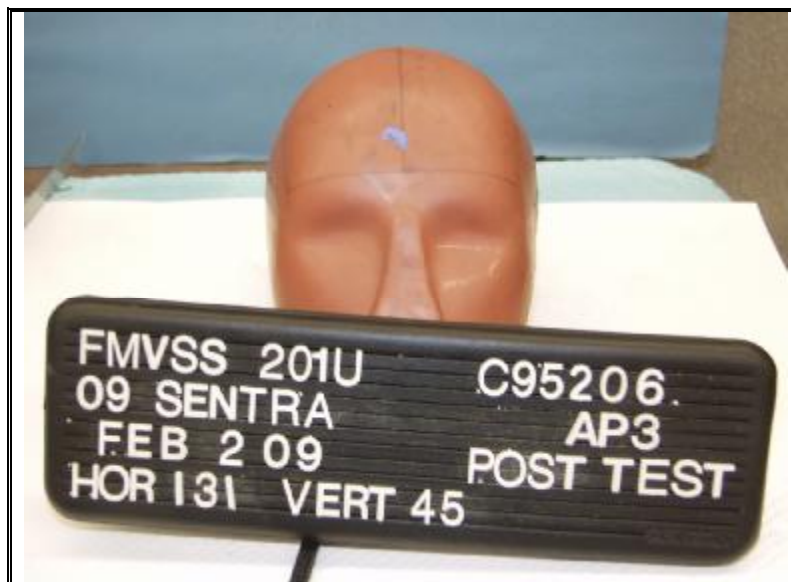


POST-IMPACT SR2A

VEHICLE YEAR/MAKE/MODEL/STYLE:	2009 Nissan Sentra
VIN:	3N1AB61E39L608724
DATE OF MANUFACTURE:	10/08(SEE CERTIFICATION LABEL)
COLOR:	Gray

Test Number:	08
Test Date:	02/02/09
Target Location:	A-PILLAR
Target Code:	AP3
Horizontal Impact Angle:	131°
Vertical Impact Angle:	45°
Ambient Temperature:	20°C
Relative Humidity:	23
Time of Impact:	13:58
Headform Number:	0355

Impact Point Description (from lower midpoint on midsagittal line)					
On Centerline	2	<input checked="" type="checkbox"/>	mm right	<input type="checkbox"/>	mm left
On Centerline	15				mm up



POST-IMPACT AP3 HEADFORM

Free Motion HIC	323.1
HIC(d)	410.1
Impact Velocity (kph)	18.69
HIC T1 (msec)	1.4
HIC T2 (msec)	10.6

FMVSS 201U 09 Nissan Sentra C95206 - AP3

FMH Headform 0355

Location: AP3

Test Date: February 02, 2009

Work File: AP3

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

Lab Temperature: 20 C

HICd: 410.1

Lab Humidity: 23 %

HIC (36ms): 323.1

Velocity at Impact: 18.69 KPH

t1: 1.4 msec

t2: 10.6 msec

Free Flight Distance: 226.48 mm

Duration: 9.2 msec

Average Acceleration: 9.5 g

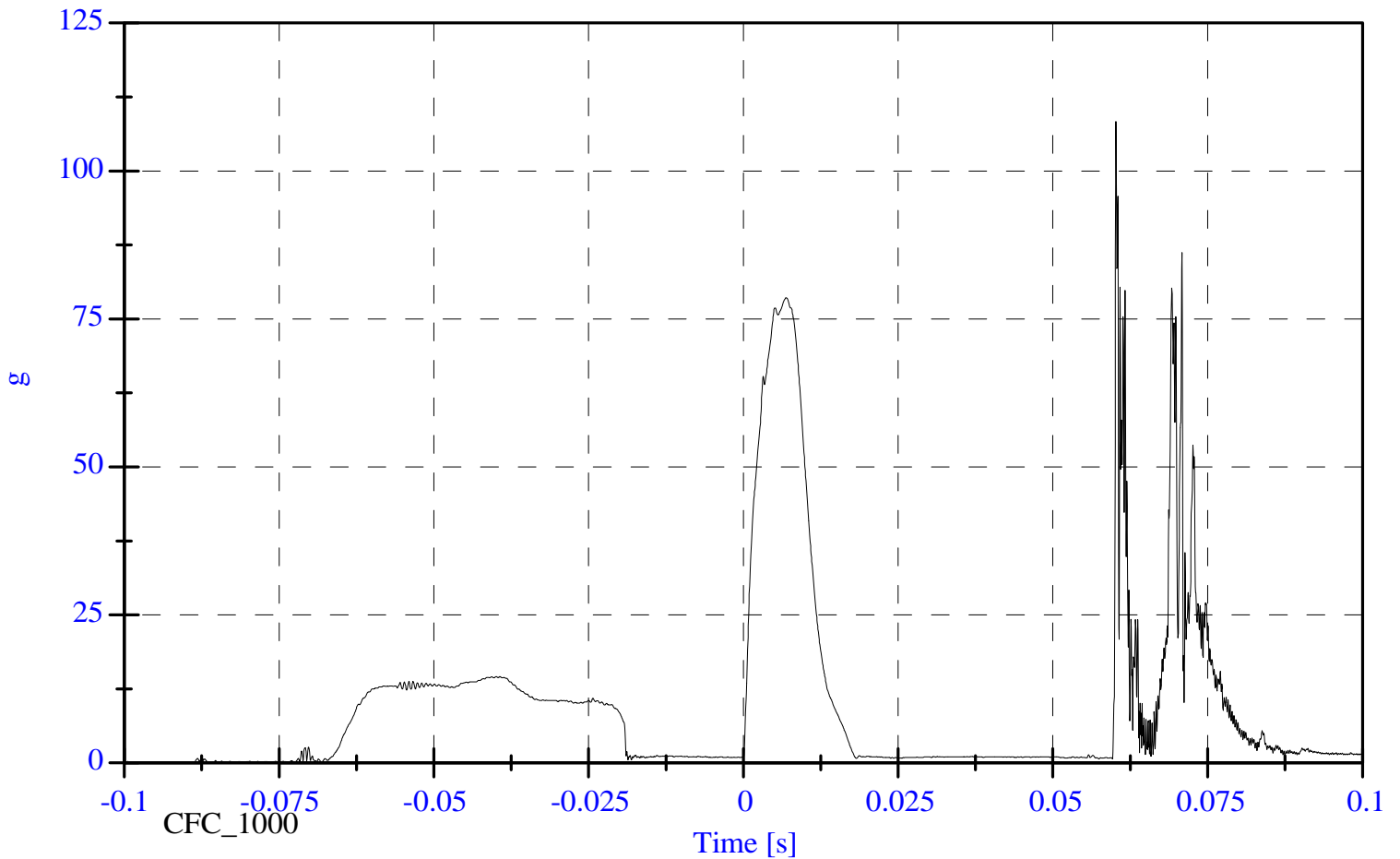
Maximum: 78.6 g

FMVSS 201U 09 Nissan Sentra

Headform Resultant

Max: 78.6 [g] at 0.007 [s]

Min: 0.0 [g] at -0.092 [s]



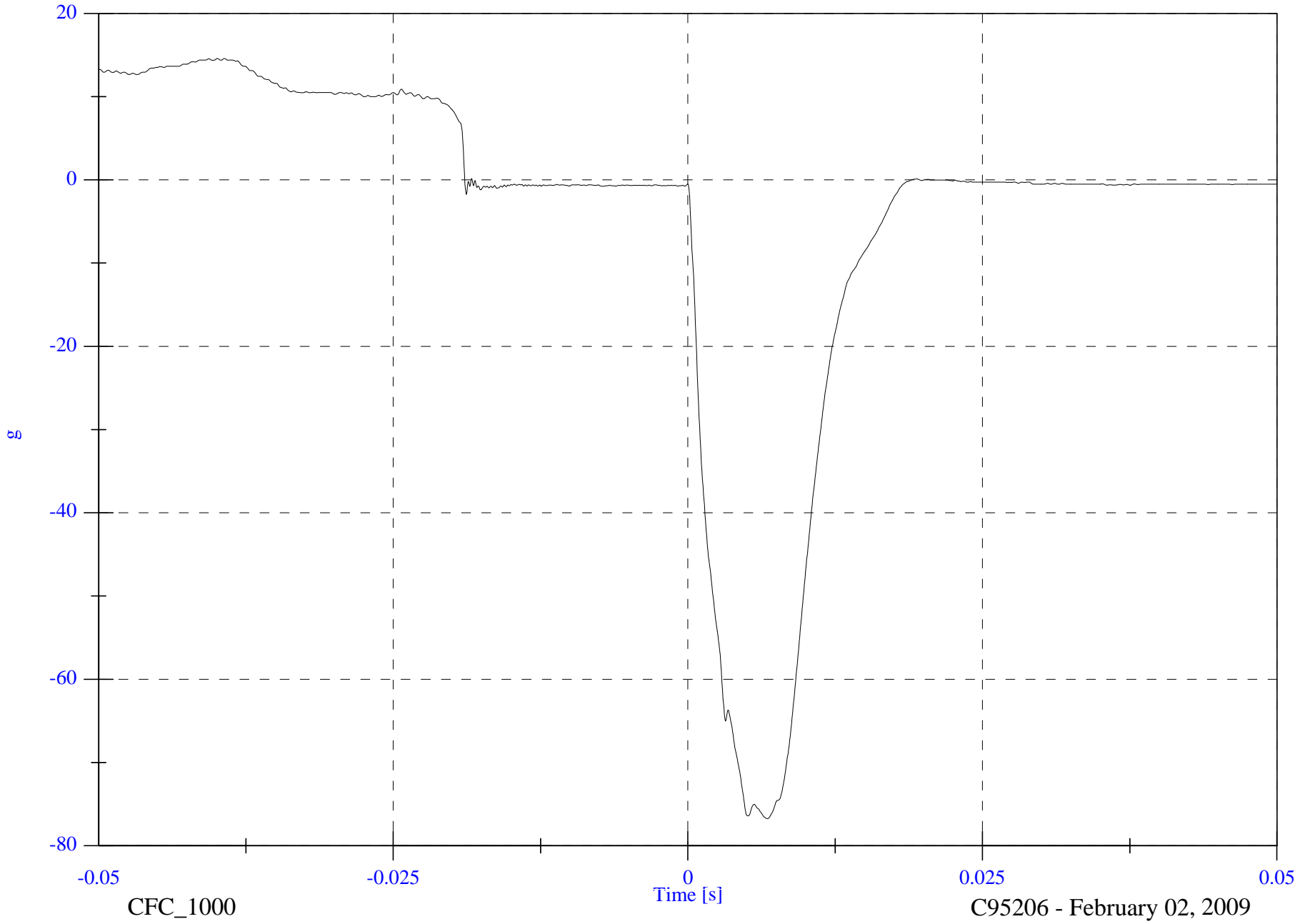
FMVSS 201U 09 Nissan Sentra

Headform X Acceleration

Max: 14.6 [g] at -0.040 [s]

Min: -76.7 [g] at 0.007 [s]

C95206 PASSENGER SIDE AP3 IMPACT PLOT #1



CFC_1000

C95206 - February 02, 2009

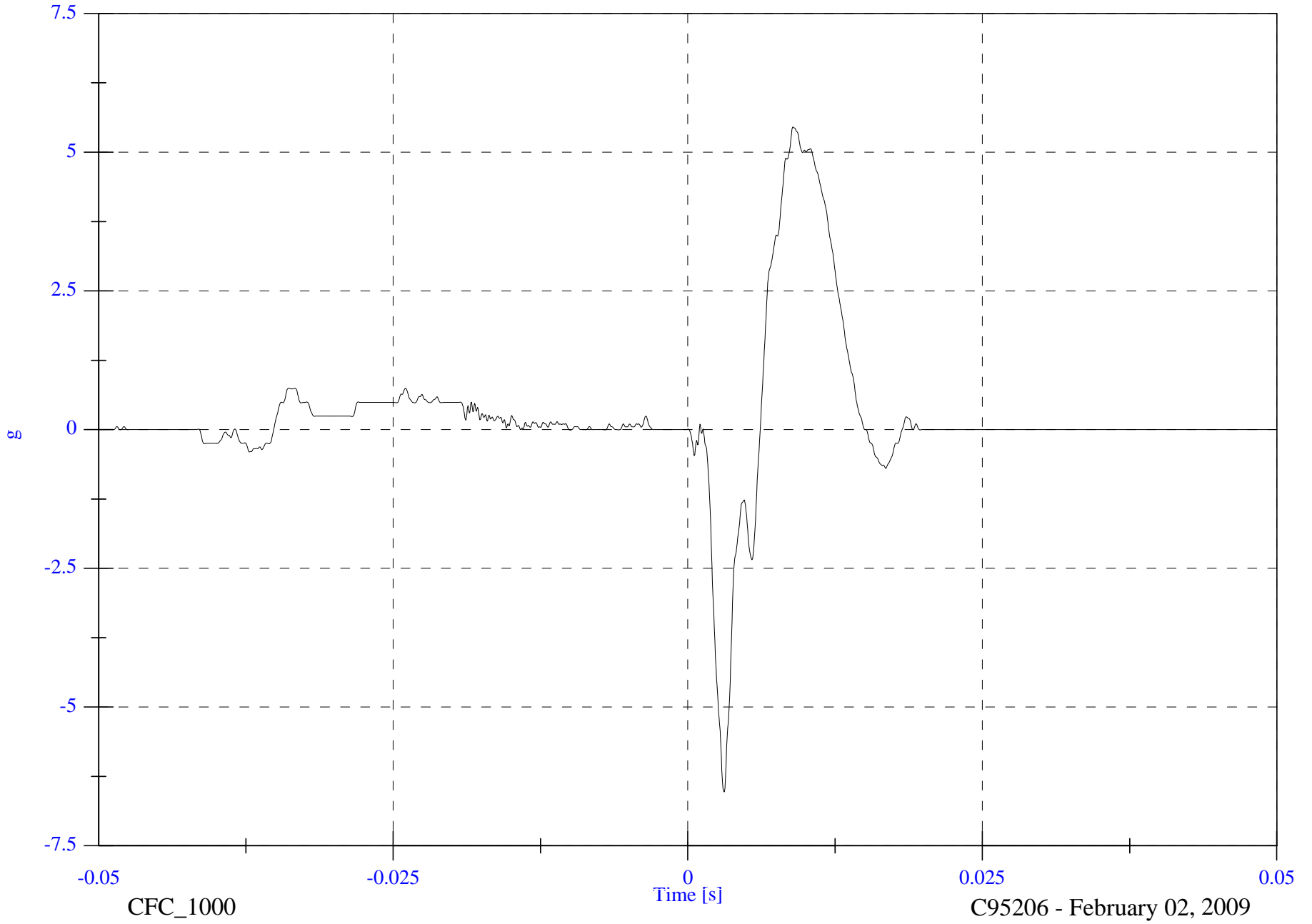
FMVSS 201U 09 Nissan Sentra

Headform Y Acceleration

Max: 5.5 [g] at 0.009 [s]

Min: -6.5 [g] at 0.003 [s]

C95206 PASSENGER SIDE AP3 IMPACT PLOT #2



CFC_1000

C95206 - February 02, 2009

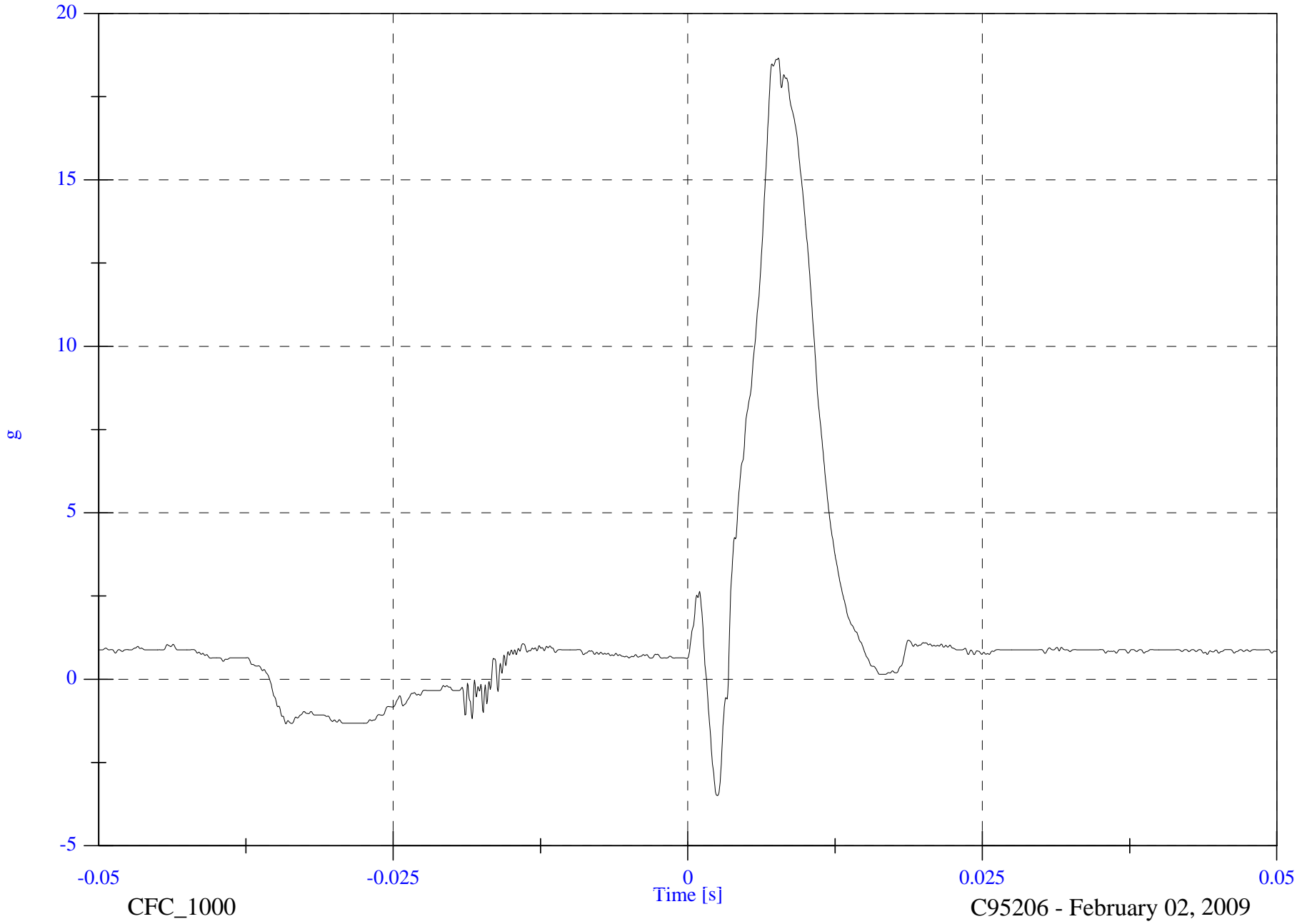
FMVSS 201U 09 Nissan Sentra

Headform Z Acceleration

Max: 18.7 [g] at 0.008 [s]

Min: -3.5 [g] at 0.002 [s]

C95206 PASSENGER SIDE AP3 IMPACT PLOT #3



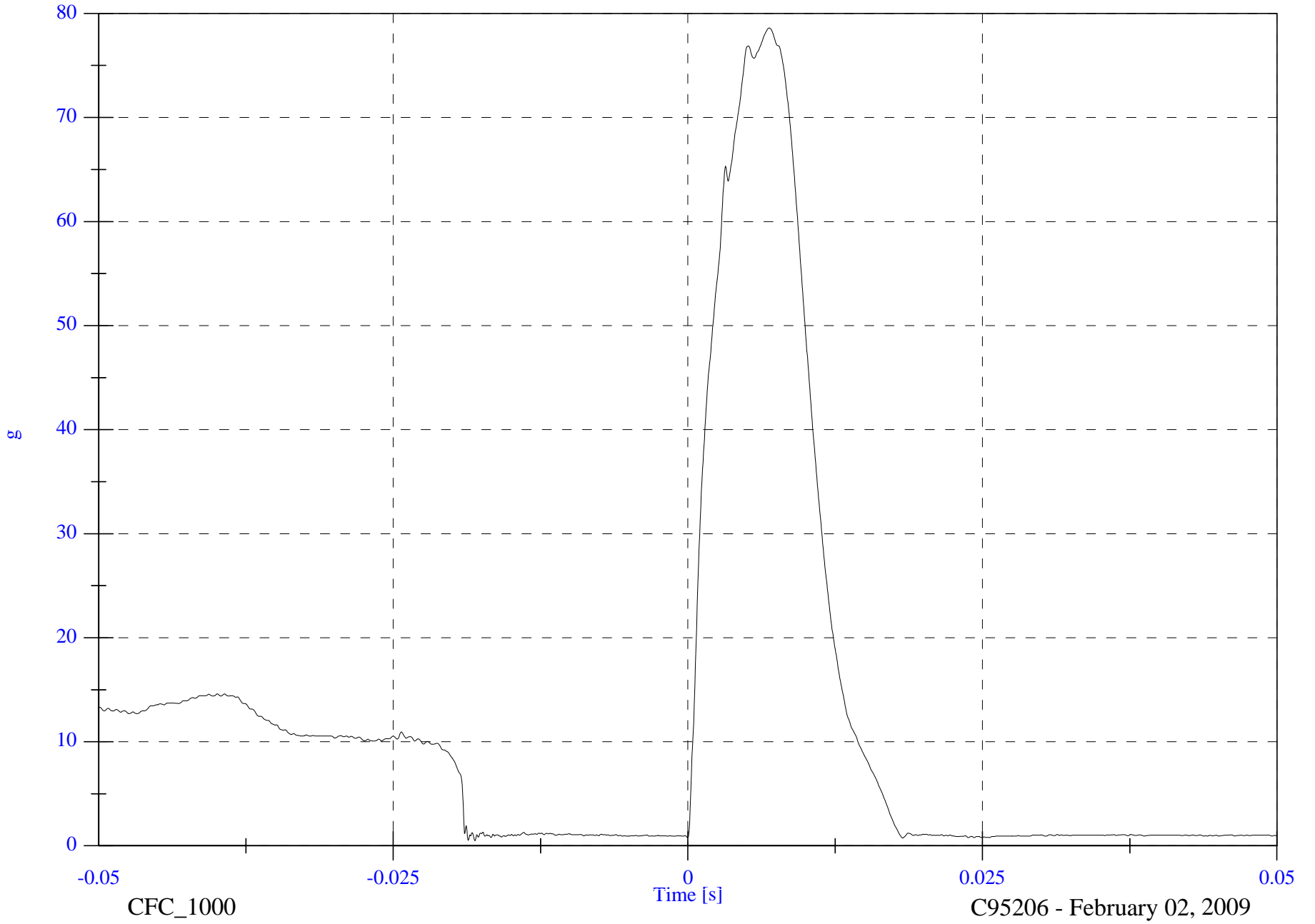
FMVSS 201U 09 Nissan Sentra

Headform Resultant

Max: 78.6 [g] at 0.007 [s]

Min: 0.5 [g] at -0.018 [s]

C95206 PASSENGER SIDE AP3 IMPACT PLOT #4



CFC_1000

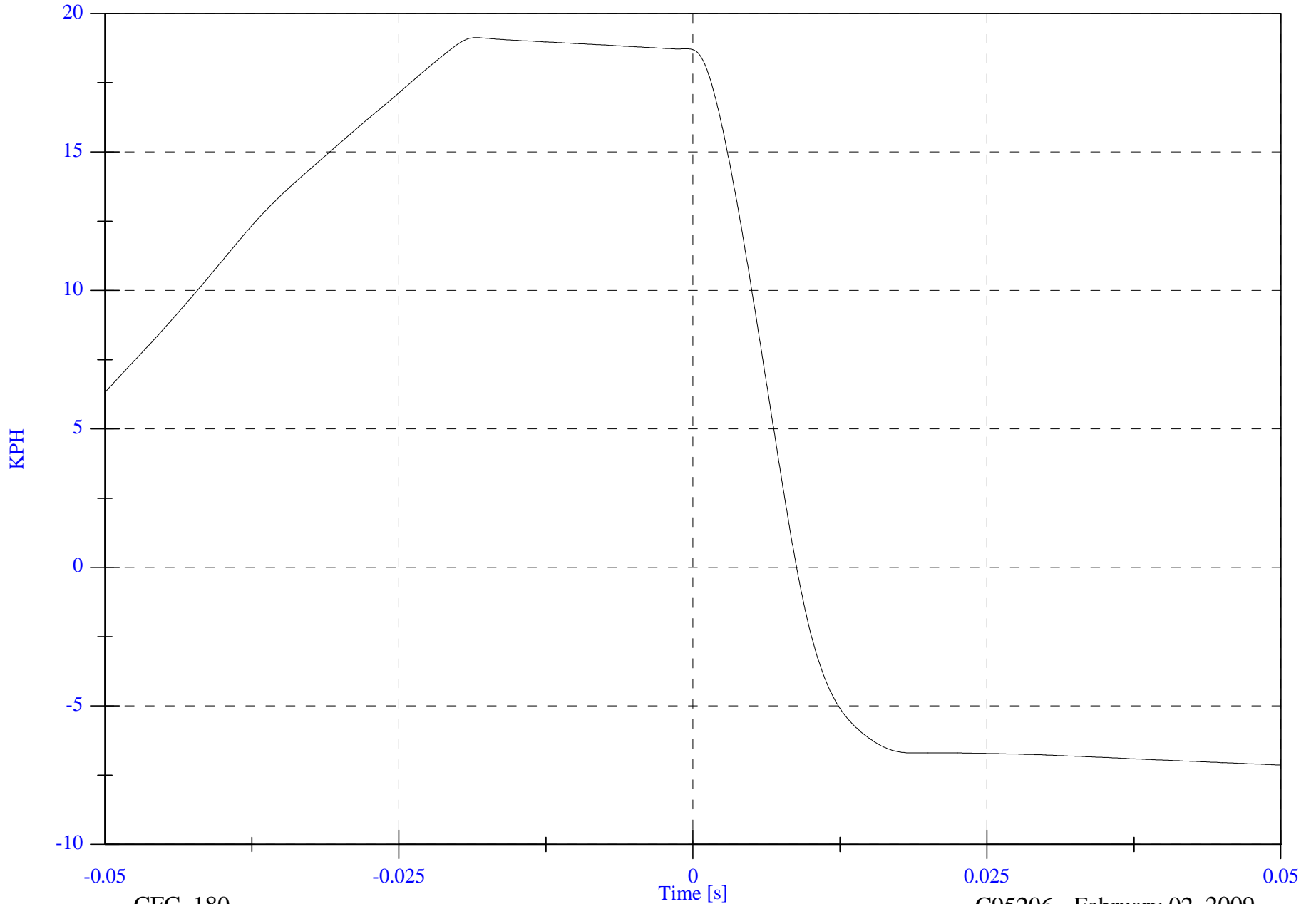
C95206 - February 02, 2009

FMVSS 201U 09 Nissan Sentra

Max: 19.1 [KPH] at -0.018 [s]

Min: -7.1 [KPH] at 0.050 [s]

Headform Velocity



C95206 PASSENGER SIDE AP3 IMPACT PLOT #5

CFC_180

C95206 - February 02, 2009



PRE-IMPACT AP3



POST-IMPACT AP3

VEHICLE YEAR/MAKE/MODEL/STYLE:	2009 Nissan Sentra
VIN:	3N1AB61E39L608724
DATE OF MANUFACTURE:	10/08(SEE CERTIFICATION LABEL)
COLOR:	Gray

Test Number:	09
Test Date:	02/02/09
Target Location:	A-PILLAR
Target Code:	AP1
Horizontal Impact Angle:	114°
Vertical Impact Angle:	14°
Ambient Temperature:	20°C
Relative Humidity:	23
Time of Impact:	14:40
Headform Number:	1140

Impact Point Description (from lower midpoint on midsagittal line)					
On Centerline	23	<input checked="" type="checkbox"/>	mm right	<input type="checkbox"/>	mm left
On Centerline	6				mm up



POST-IMPACT AP1 HEADFORM

Free Motion HIC	209.8
HIC(d)	324.7
Impact Velocity (kph)	18.37
HIC T1 (msec)	4.4
HIC T2 (msec)	9.9

FMVSS 201U 09 Nissan Sentra C95206 - AP1

FMH Headform 1140

Location: AP1

Test Date: February 02, 2009

Work File: AP1

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

Lab Temperature: 20 C

HICd: 324.7

Lab Humidity: 23 %

HIC (36ms): 209.8

Velocity at Impact: 18.37 KPH

t1: 4.4 msec

t2: 9.9 msec

Free Flight Distance: 218.33 mm

Duration: 5.5 msec

Average Acceleration: 6.5 g

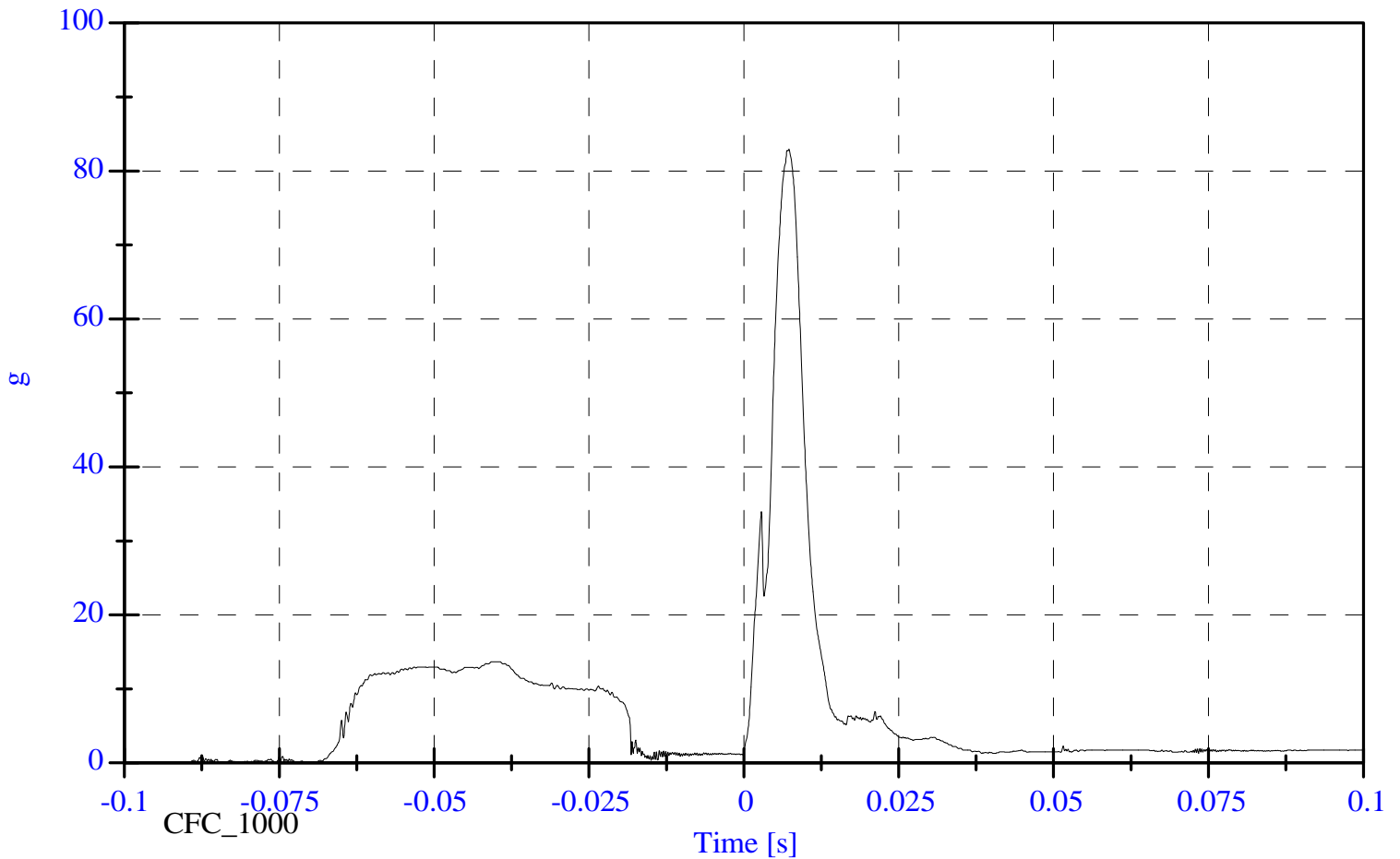
Maximum: 83.0 g

FMVSS 201U 09 Nissan Sentra

Headform Resultant

Max: 83.0 [g] at 0.007 [s]

Min: 0.0 [g] at -0.084 [s]



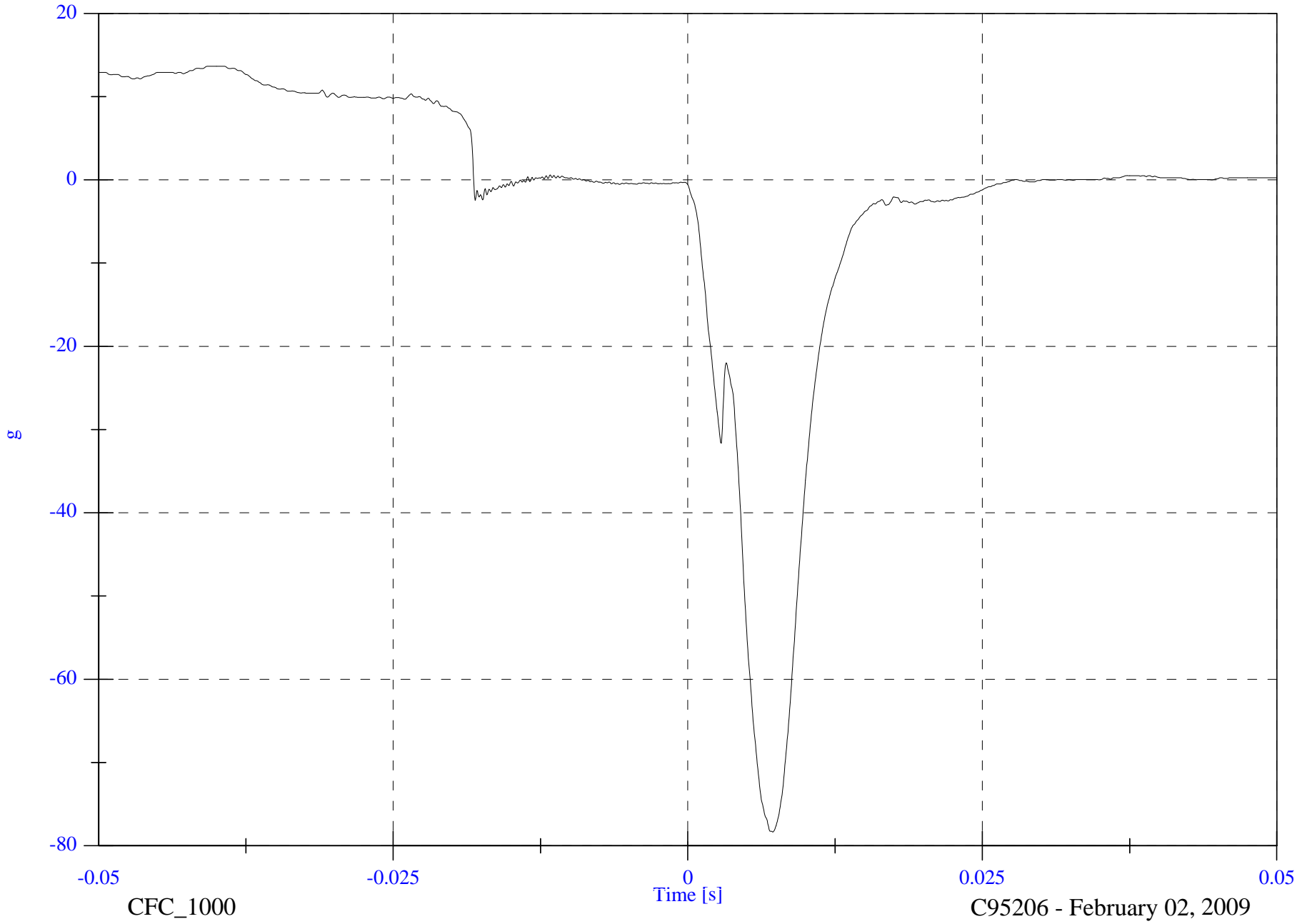
FMVSS 201U 09 Nissan Sentra

Headform X Acceleration

Max: 13.7 [g] at -0.039 [s]

Min: -78.3 [g] at 0.007 [s]

C95206 PASSENGER SIDE AP1 IMPACT PLOT #1



CFC_1000

C95206 - February 02, 2009

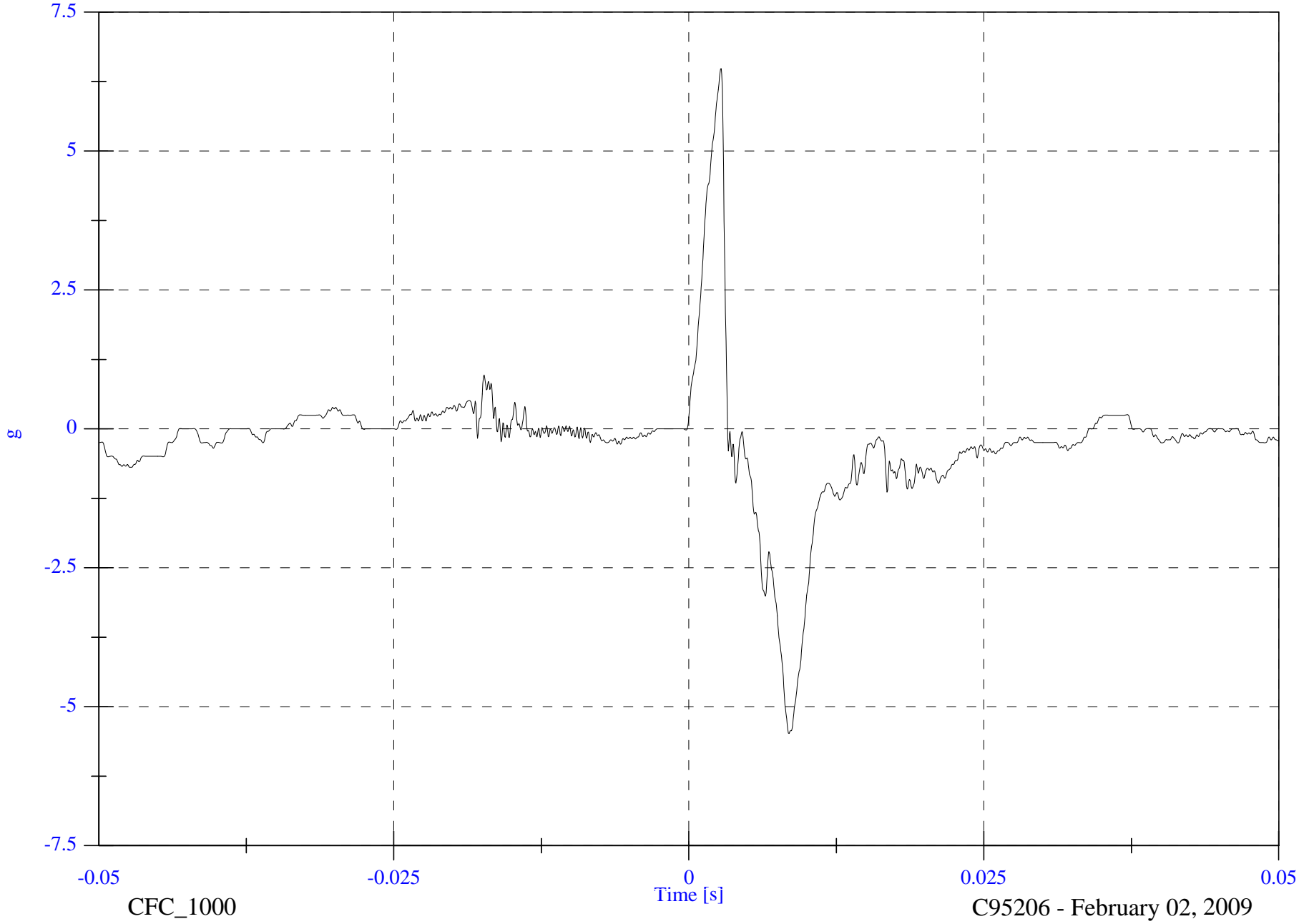
FMVSS 201U 09 Nissan Sentra

Headform Y Acceleration

Max: 6.5 [g] at 0.003 [s]

Min: -5.5 [g] at 0.008 [s]

C95206 PASSENGER SIDE AP1 IMPACT PLOT #2



CFC_1000

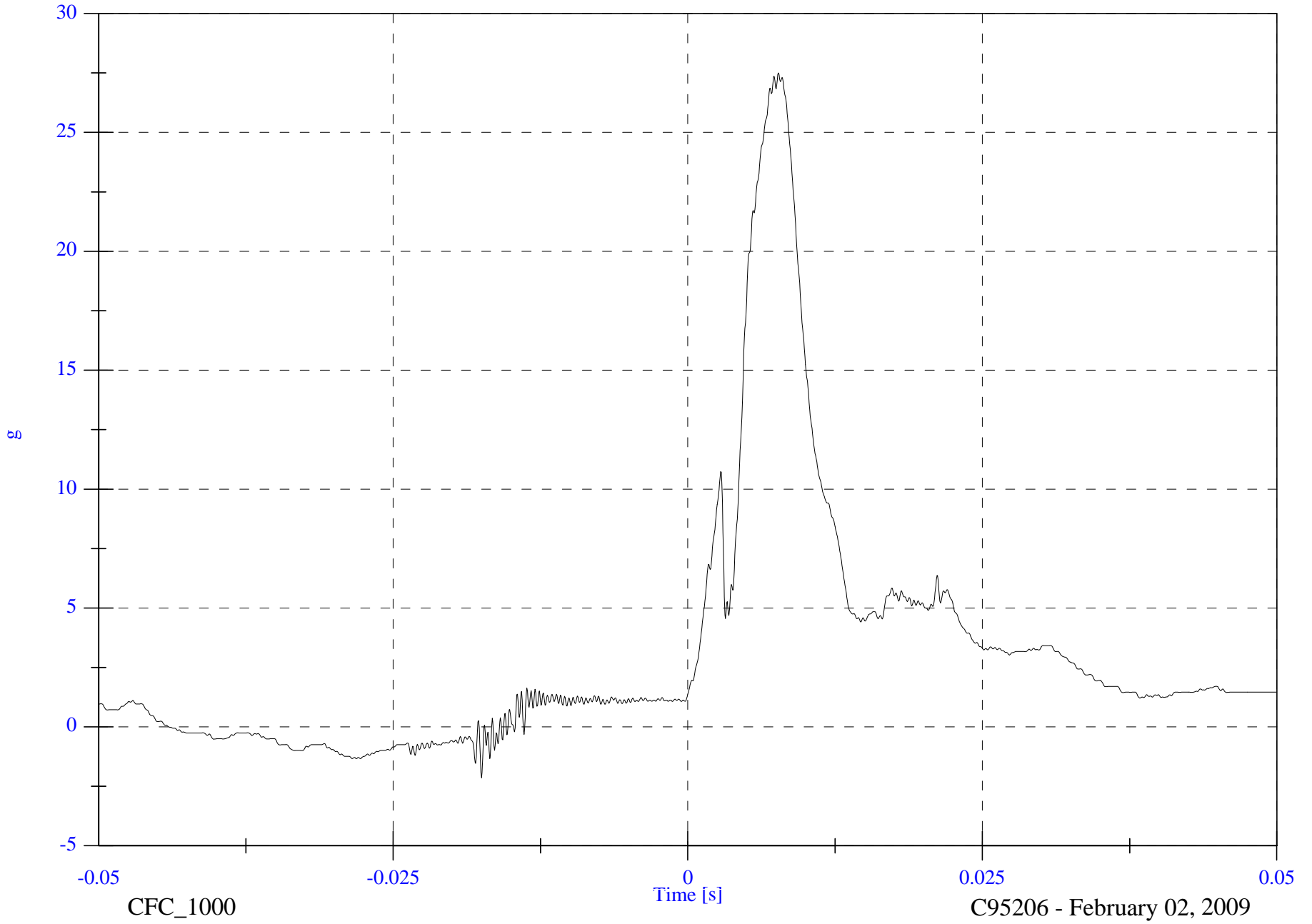
C95206 - February 02, 2009

FMVSS 201U 09 Nissan Sentra

Headform Z Acceleration

Max: 27.5 [g] at 0.008 [s]
Min: -2.1 [g] at -0.018 [s]

C95206 PASSENGER SIDE AP1 IMPACT PLOT #3



CFC_1000

C95206 - February 02, 2009

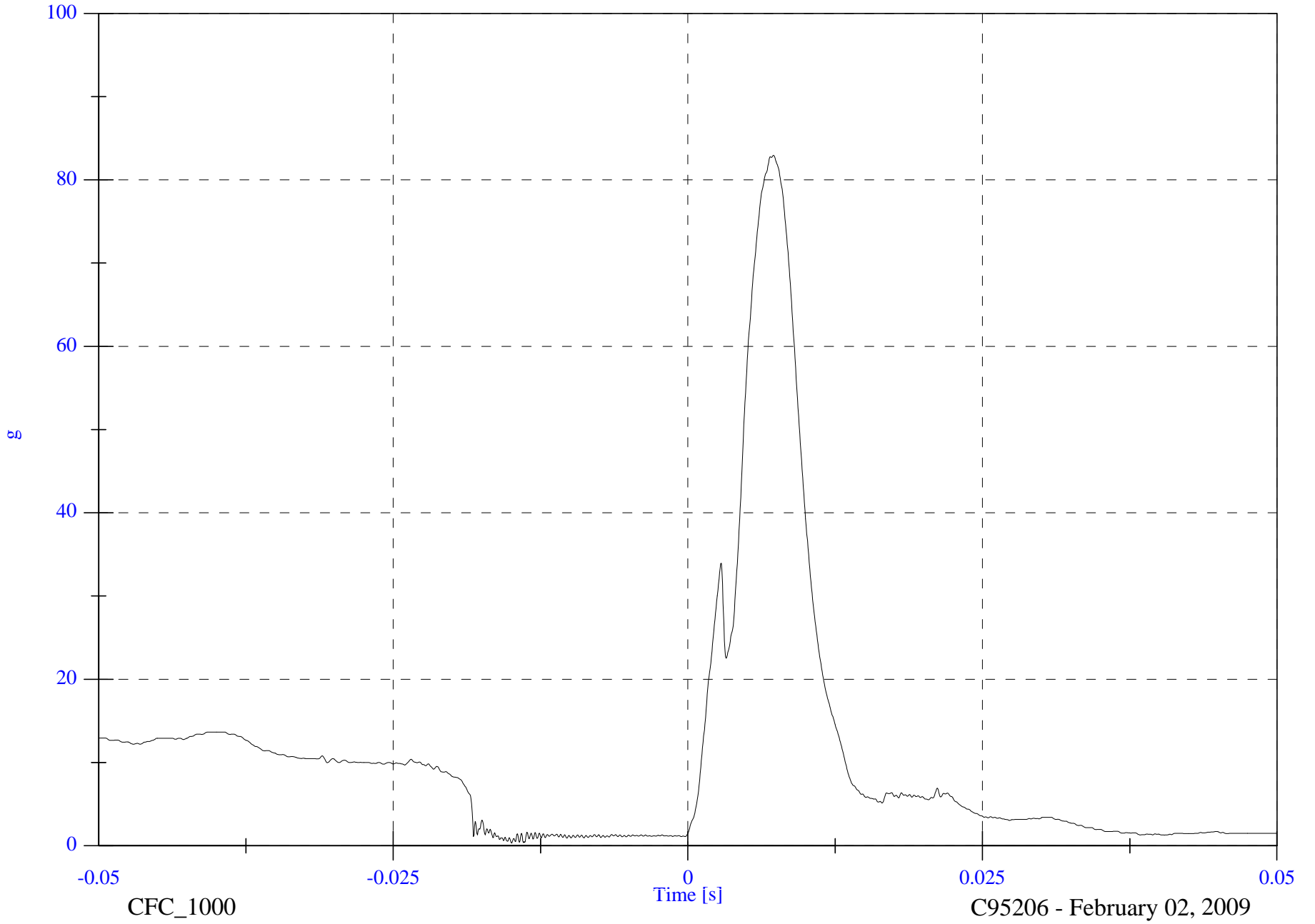
FMVSS 201U 09 Nissan Sentra

Headform Resultant

Max: 83.0 [g] at 0.007 [s]

Min: 0.3 [g] at -0.015 [s]

C95206 PASSENGER SIDE AP1 IMPACT PLOT #4



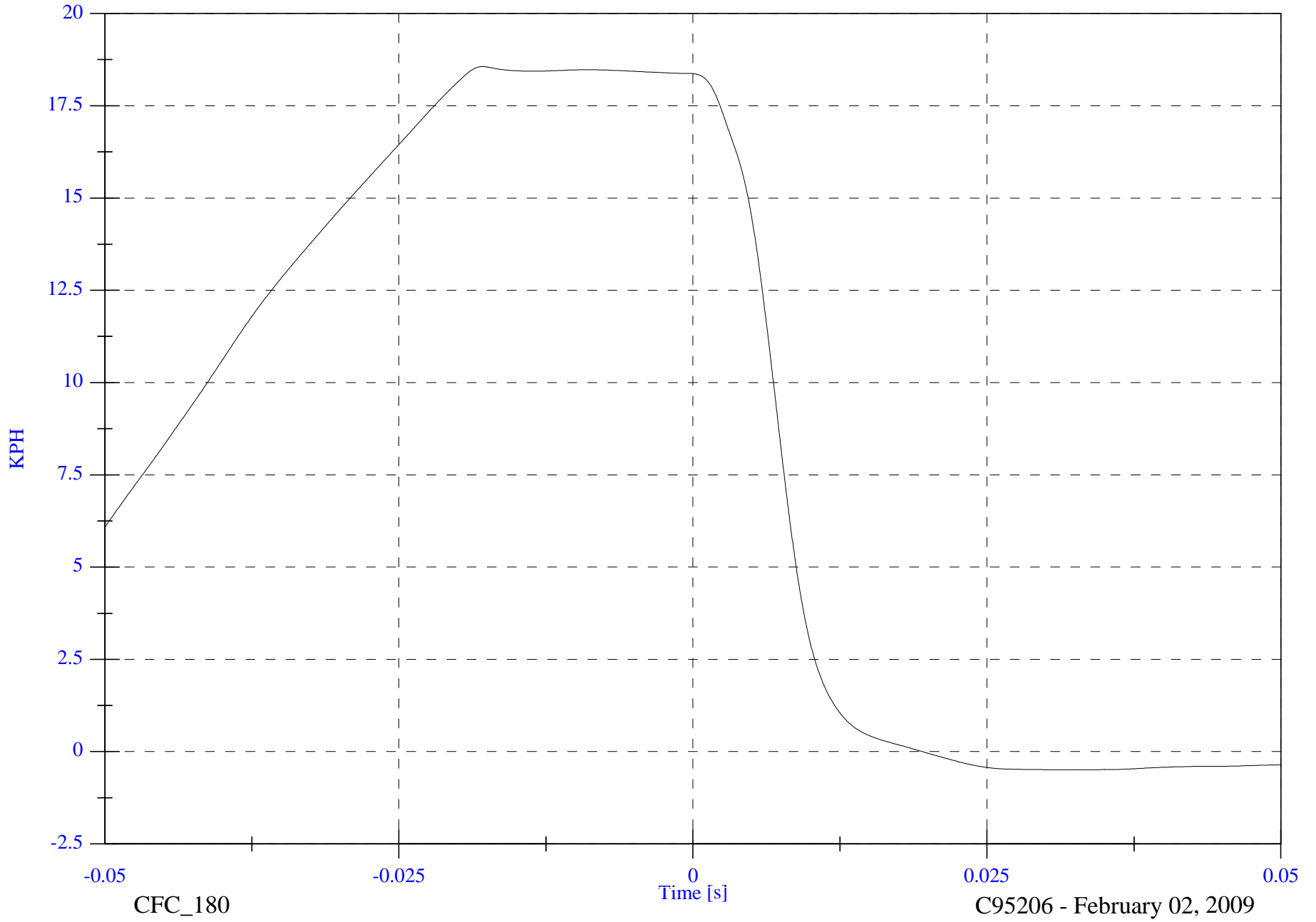
FMVSS 201U 09 Nissan Sentra

Headform Velocity

Max: 18.6 [KPH] at -0.018 [s]

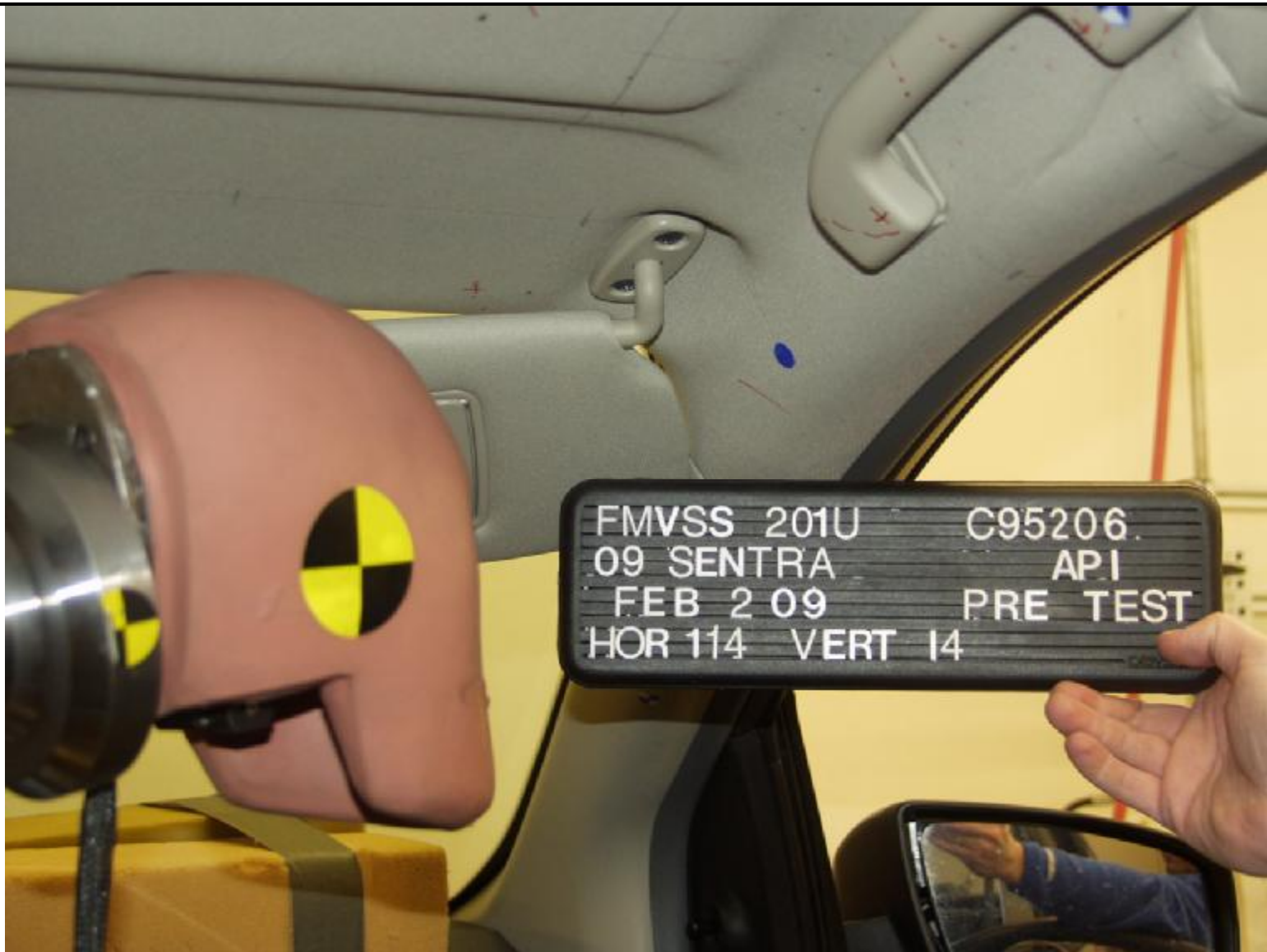
Min: -0.5 [KPH] at 0.031 [s]

C95206 PASSENGER SIDE AP1 IMPACT PLOT #5



CFC_180

C95206 - February 02, 2009



PRE-IMPACT AP1

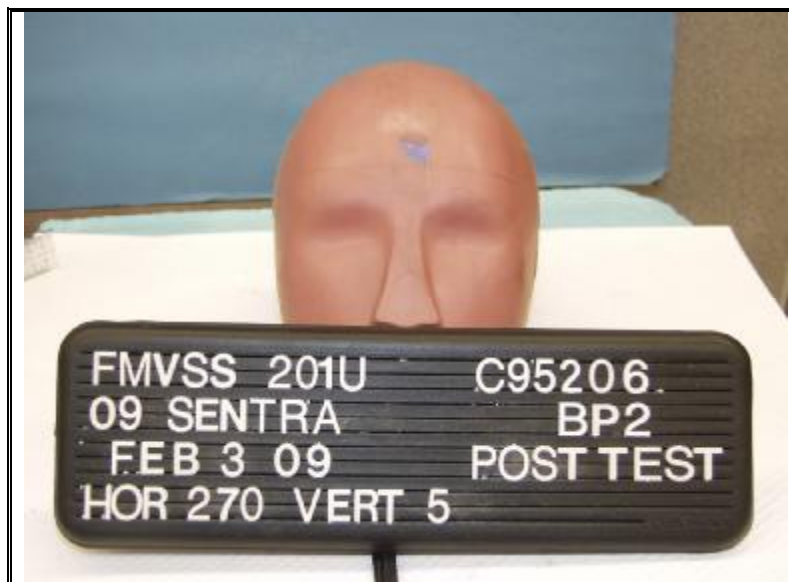


POST-IMPACT API

VEHICLE YEAR/MAKE/MODEL/STYLE:	2009 Nissan Sentra
VIN:	3N1AB61E39L608724
DATE OF MANUFACTURE:	10/08(SEE CERTIFICATION LABEL)
COLOR:	Gray

Test Number:	10
Test Date:	02/03/09
Target Location:	B-PILLAR
Target Code:	BP2
Horizontal Impact Angle:	270°
Vertical Impact Angle:	5°
Ambient Temperature:	20°C
Relative Humidity:	20
Time of Impact:	9:20
Headform Number:	1140

Impact Point Description (from lower midpoint on midsagittal line)					
On Centerline	3	<input type="checkbox"/>	mm right	<input checked="" type="checkbox"/>	mm left
On Centerline	10				mm up



POST-IMPACT BP2 HEADFORM

Free Motion HIC	680.7
HIC(d)	679.9
Impact Velocity (kph)	23.43
HIC T1 (msec)	1.3
HIC T2 (msec)	8.7

FMVSS 201U 09 Nissan Sentra C95206 - BP2

FMH Headform 1140

Location: BP2

Test Date: February 03, 2009

Work File: BP2

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

Lab Temperature: 20 C

HICd: 679.9

Lab Humidity: 20 %

HIC (36ms): 680.7

Velocity at Impact: 23.43 KPH

t1: 1.3 msec

t2: 8.7 msec

Free Flight Distance: 223.31 mm

Duration: 7.4 msec

Average Acceleration: 8.6 g

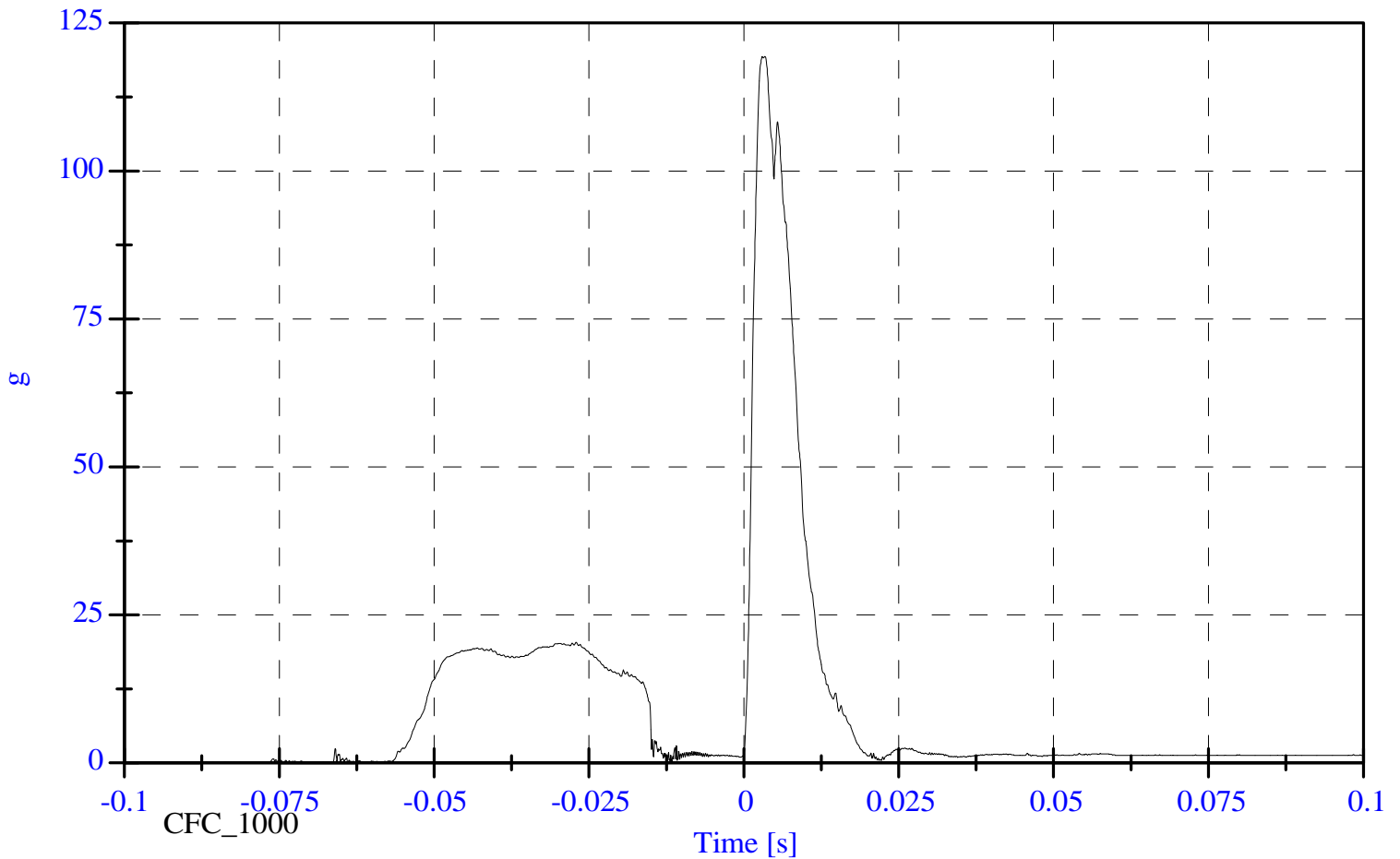
Maximum: 119.4 g

FMVSS 201U 09 Nissan Sentra

Headform Resultant

Max: 119.4 [g] at 0.003 [s]

Min: 0.0 [g] at -0.082 [s]

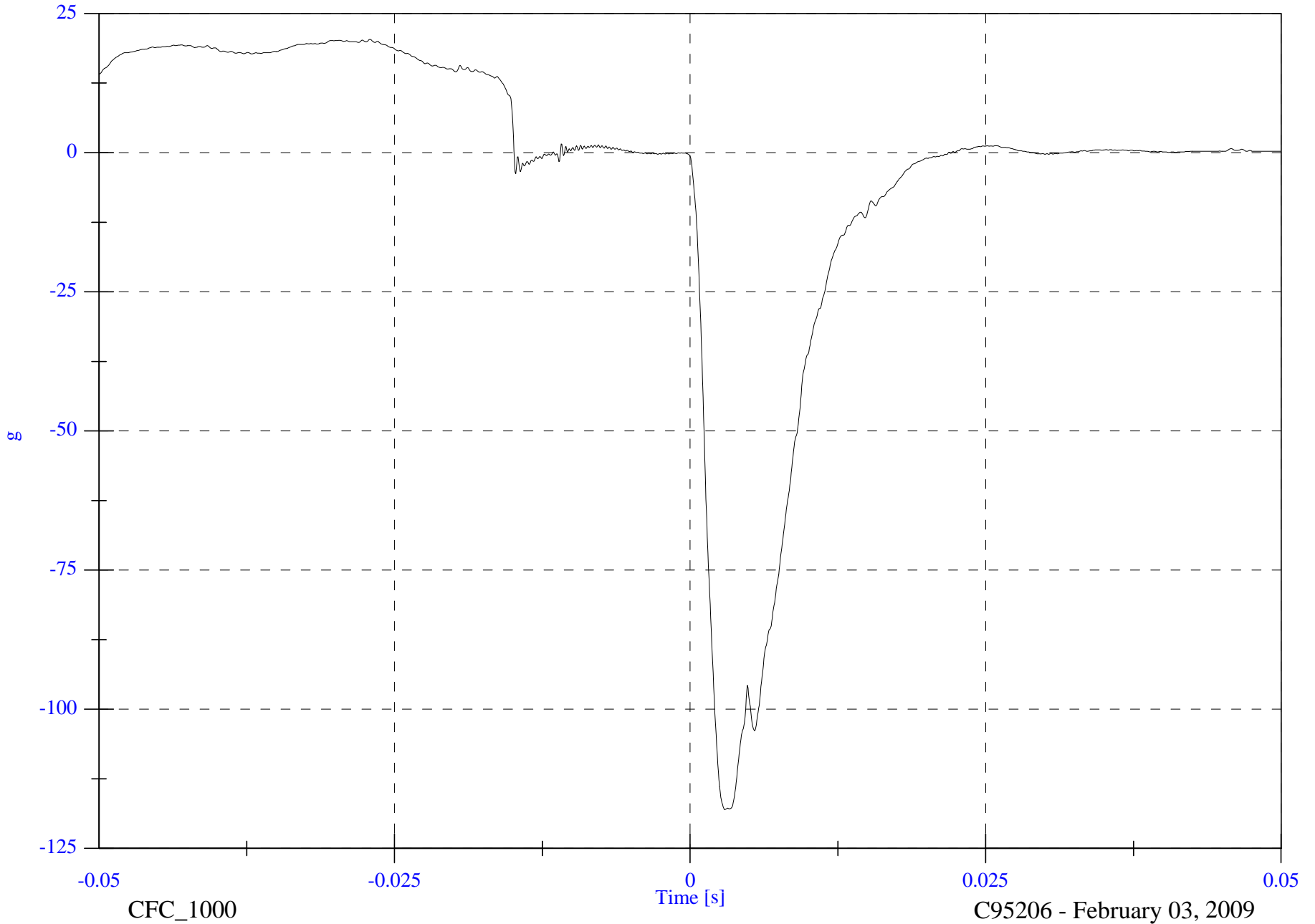


FMVSS 201U 09 Nissan Sentra

Headform X Acceleration

Max: 20.4 [g] at -0.027 [s]

Min: -118.0 [g] at 0.003 [s]



C95206 DRIVER SIDE BP2 IMPACT PLOT #1

CFC_1000

C95206 - February 03, 2009

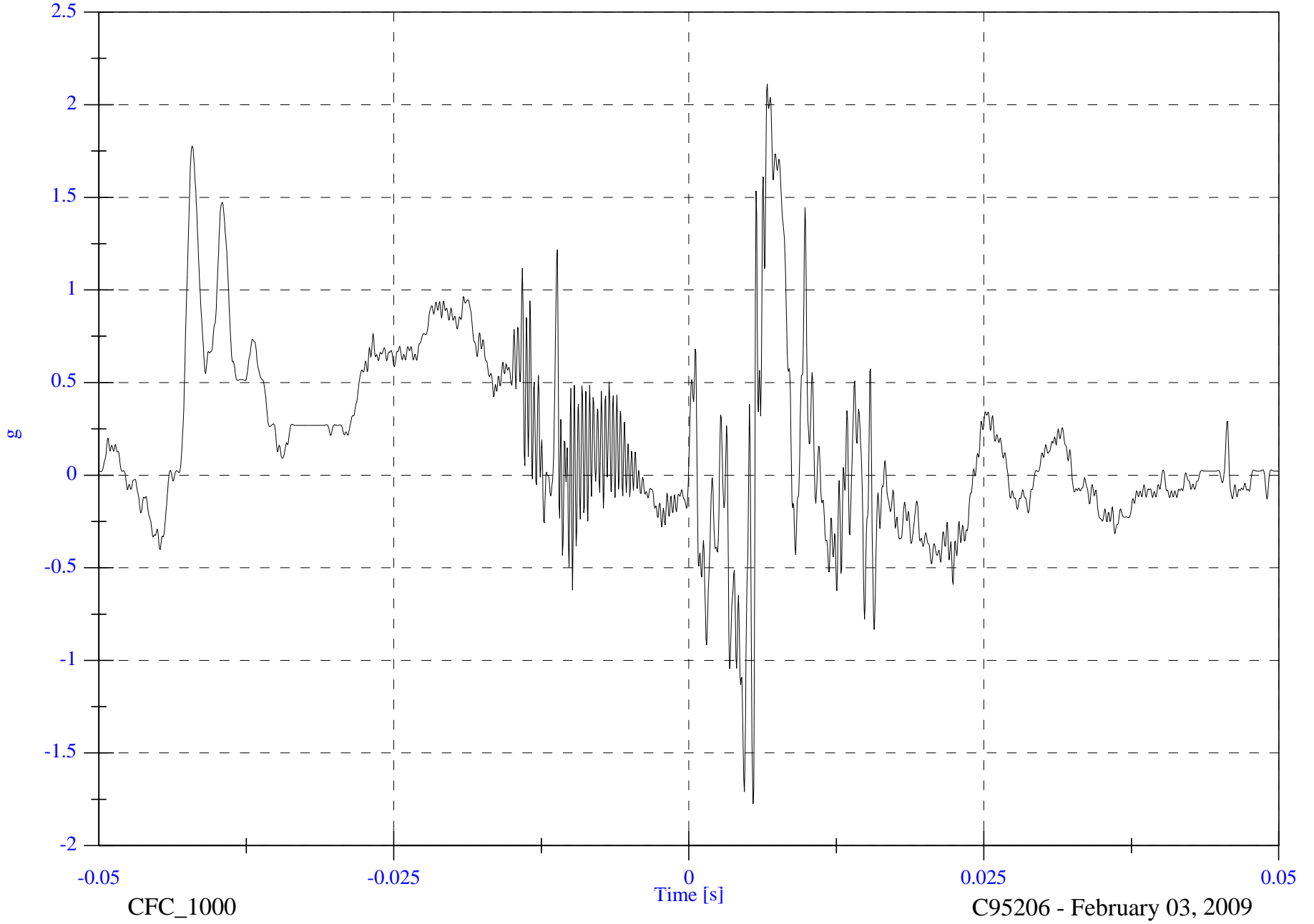
FMVSS 201U 09 Nissan Sentra

Headform Y Acceleration

Max: 2.1 [g] at 0.007 [s]

Min: -1.8 [g] at 0.005 [s]

C95206 DRIVER SIDE BP2 IMPACT PLOT #2

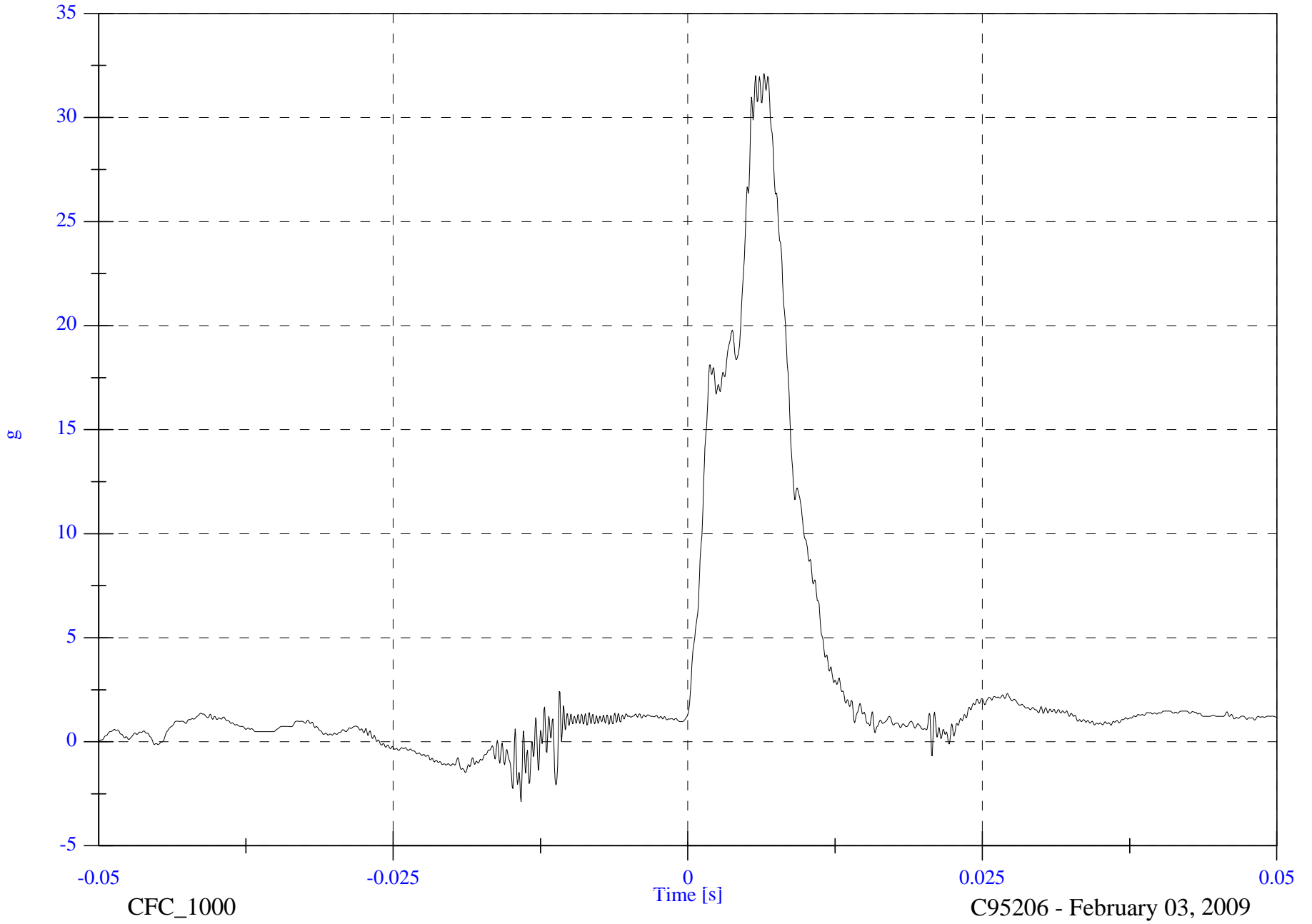


FMVSS 201U 09 Nissan Sentra

Headform Z Acceleration

Max: 32.1 [g] at 0.006 [s]
Min: -2.9 [g] at -0.014 [s]

C95206 DRIVER SIDE BP2 IMPACT PLOT #3



CFC_1000

C95206 - February 03, 2009

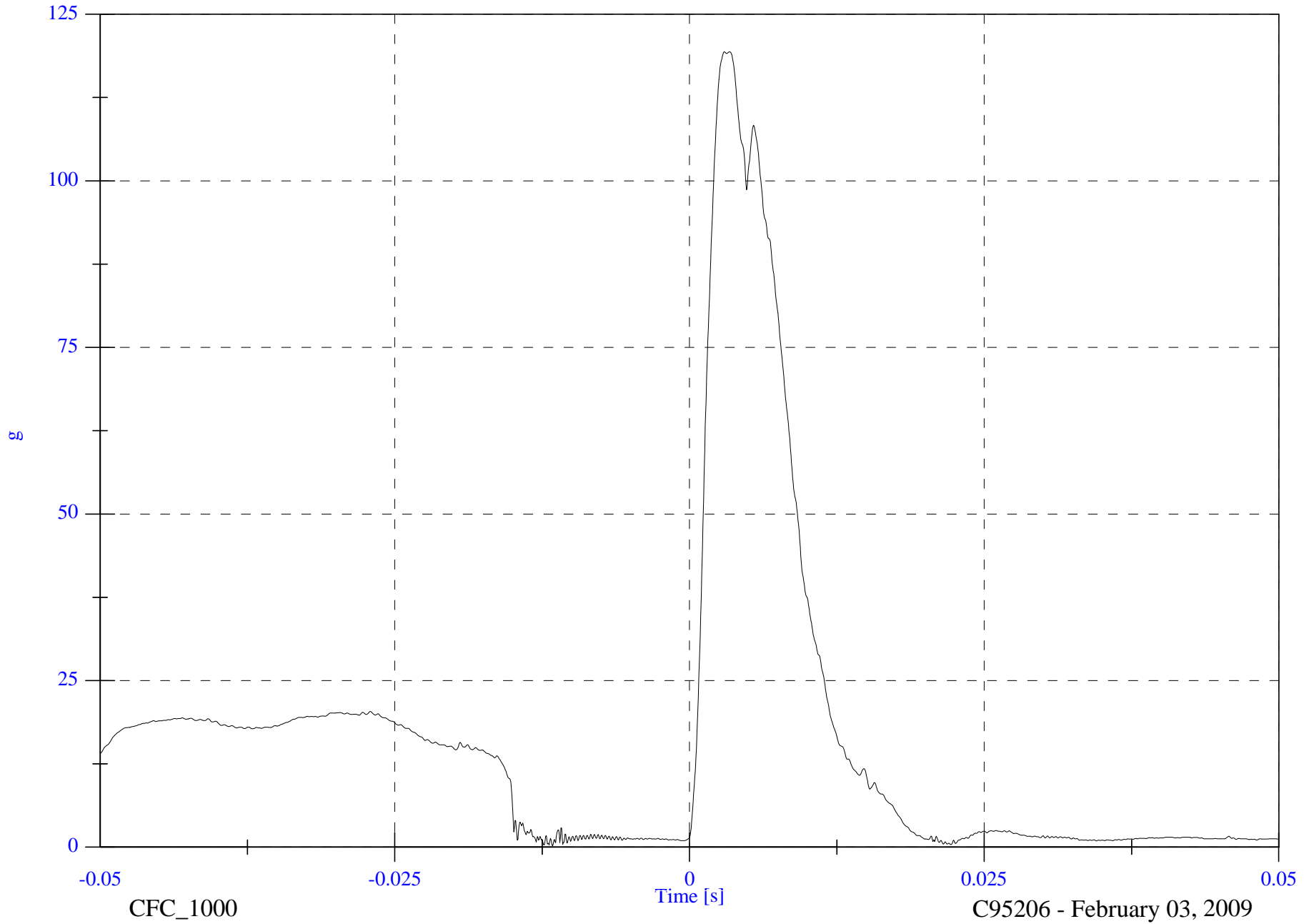
FMVSS 201U 09 Nissan Sentra

Headform Resultant

Max: 119.4 [g] at 0.003 [s]

Min: 0.2 [g] at -0.012 [s]

C95206 DRIVER SIDE BP2 IMPACT PLOT #4



CFC_1000

C95206 - February 03, 2009

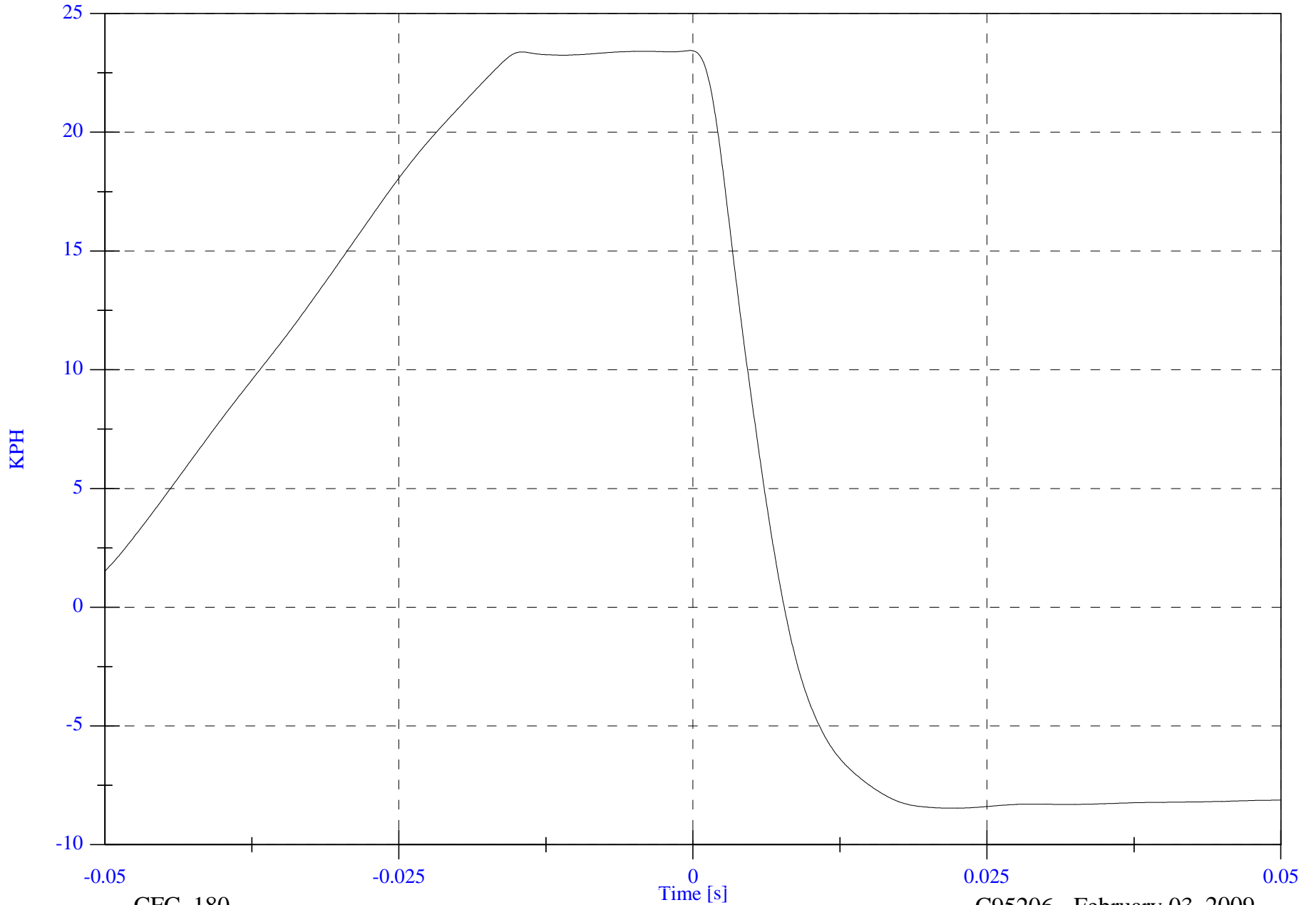
FMVSS 201U 09 Nissan Sentra

Headform Velocity

Max: 23.4 [KPH] at -0.000 [s]

Min: -8.5 [KPH] at 0.022 [s]

C95206 DRIVER SIDE BP2 IMPACT PLOT #5



CFC_180

C95206 - February 03, 2009



PRE-IMPACT BP2

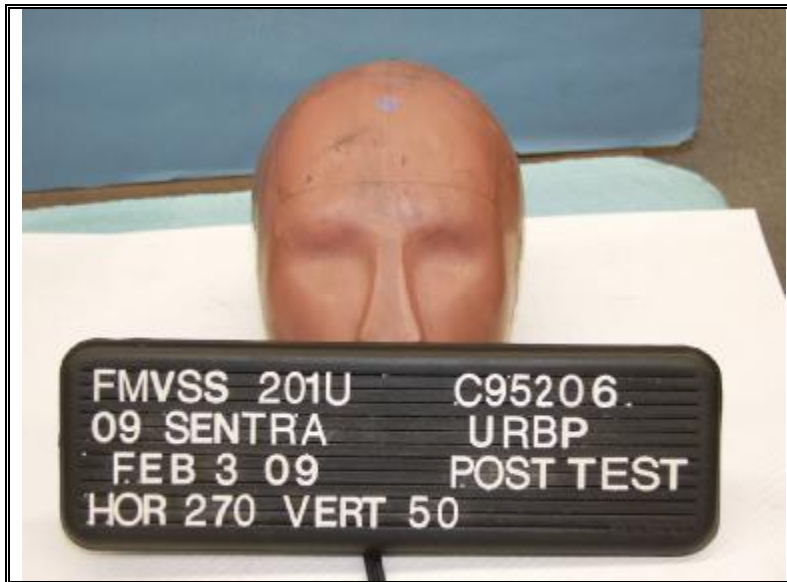


POST-IMPACT BP2

VEHICLE YEAR/MAKE/MODEL/STYLE:	2009 Nissan Sentra
VIN:	3N1AB61E39L608724
DATE OF MANUFACTURE:	10/08(SEE CERTIFICATION LABEL)
COLOR:	Gray

Test Number:	11
Test Date:	02/03/09
Target Location:	UPPER ROOF
Target Code:	URBP
Horizontal Impact Angle:	270°
Vertical Impact Angle:	50°
Ambient Temperature:	20°C
Relative Humidity:	20
Time of Impact:	9:45
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	46				mm up



POST-IMPACT URBP HEADFORM

Free Motion HIC	818.4
HIC(d)	783.8
Impact Velocity (kph)	23.56
HIC T1 (msec)	2.6
HIC T2 (msec)	8.8

FMVSS 201U 09 Nissan Sentra C95206 - URBP

FMH Headform 0805

Location: URBP

Test Date: February 03, 2009

Work File: URBP

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

Lab Temperature: 20 C

HICd: 783.8

Lab Humidity: 20 %

HIC (36ms): 818.4

Velocity at Impact: 23.56 KPH

t1: 2.6 msec

t2: 8.8 msec

Free Flight Distance: 220.27 mm

Duration: 6.2 msec

Average Acceleration: 10.4 g

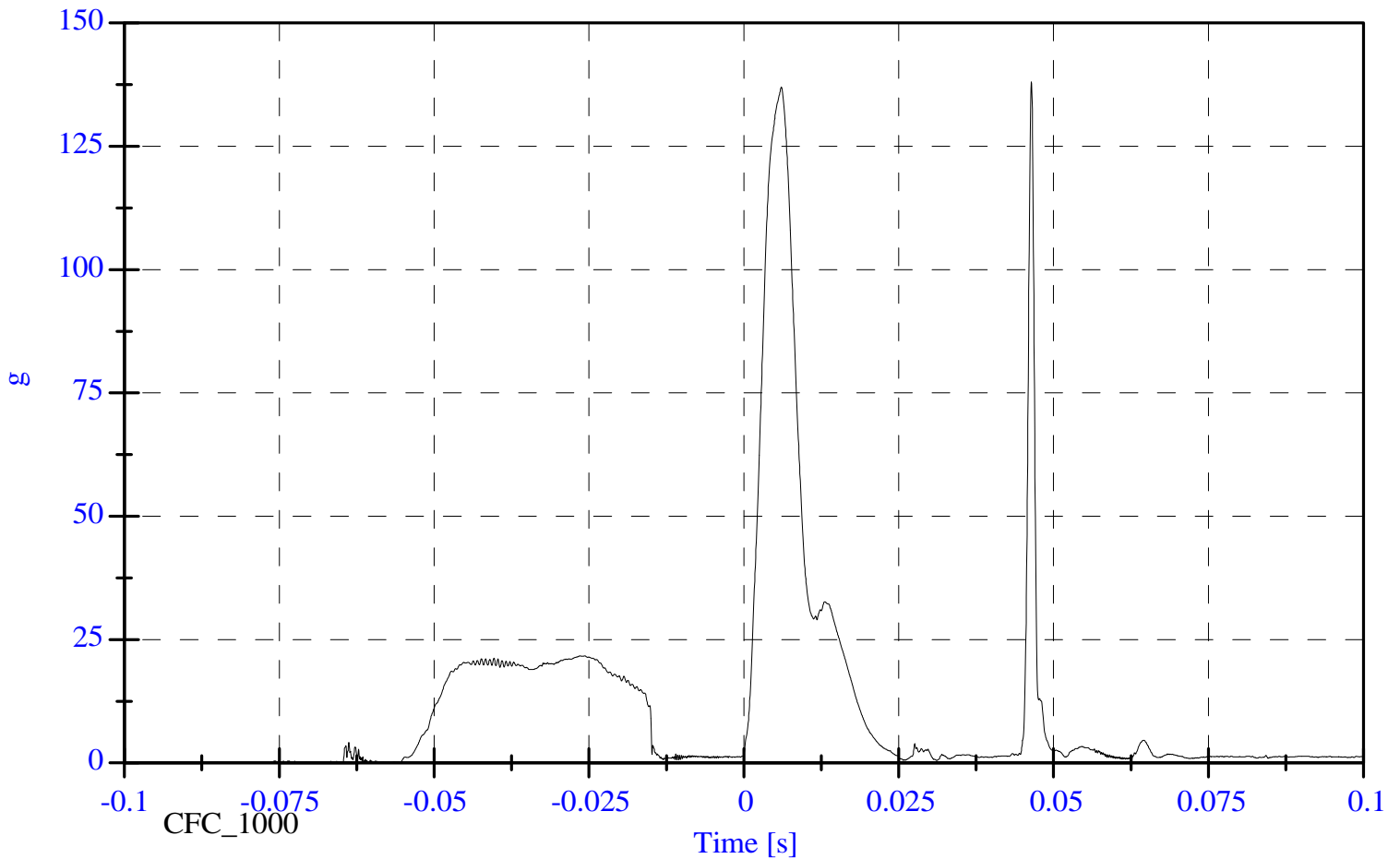
Maximum: 137.0 g

FMVSS 201U 09 Nissan Sentra

Headform Resultant

Max: 137.0 [g] at 0.006 [s]

Min: 0.0 [g] at -0.077 [s]

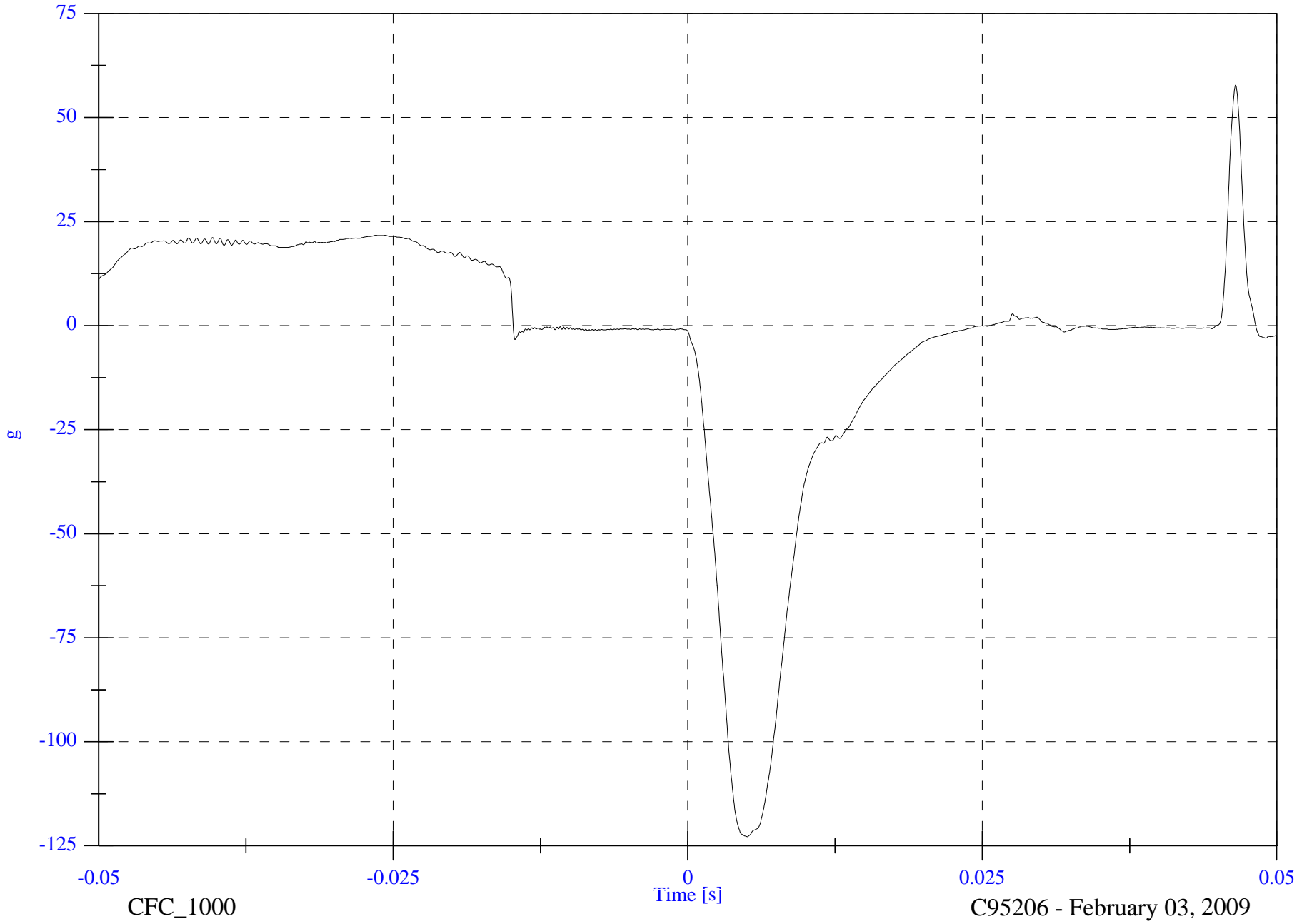


FMVSS 201U 09 Nissan Sentra

Headform X Acceleration

Max: 57.8 [g] at 0.046 [s]
Min: -122.8 [g] at 0.005 [s]

C95206 DRIVER SIDE URBP IMPACT PLOT #1



CFC_1000

C95206 - February 03, 2009

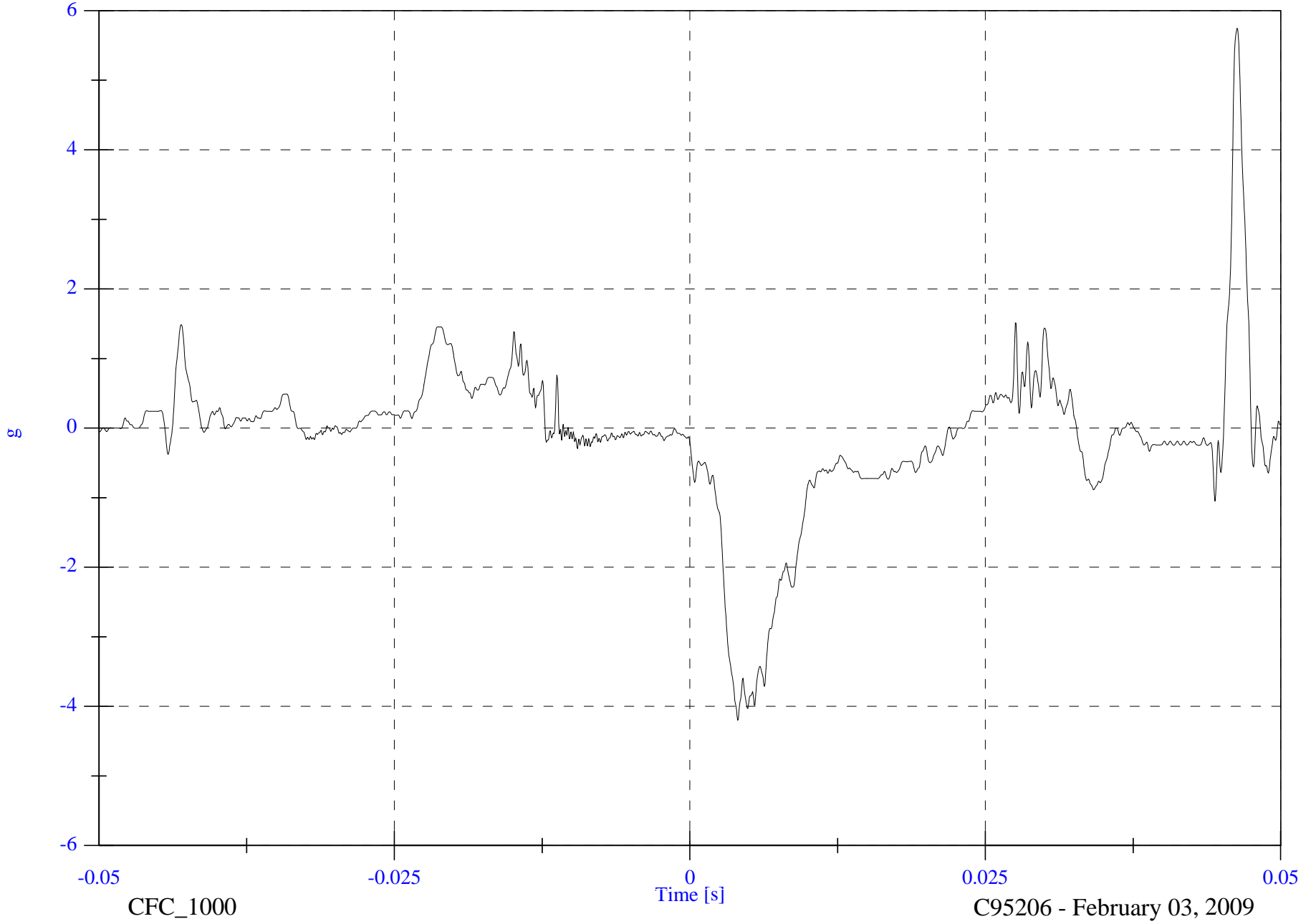
FMVSS 201U 09 Nissan Sentra

Headform Y Acceleration

Max: 5.7 [g] at 0.046 [s]

Min: -4.2 [g] at 0.004 [s]

C95206 DRIVER SIDE URBP IMPACT PLOT #2



CFC_1000

C95206 - February 03, 2009

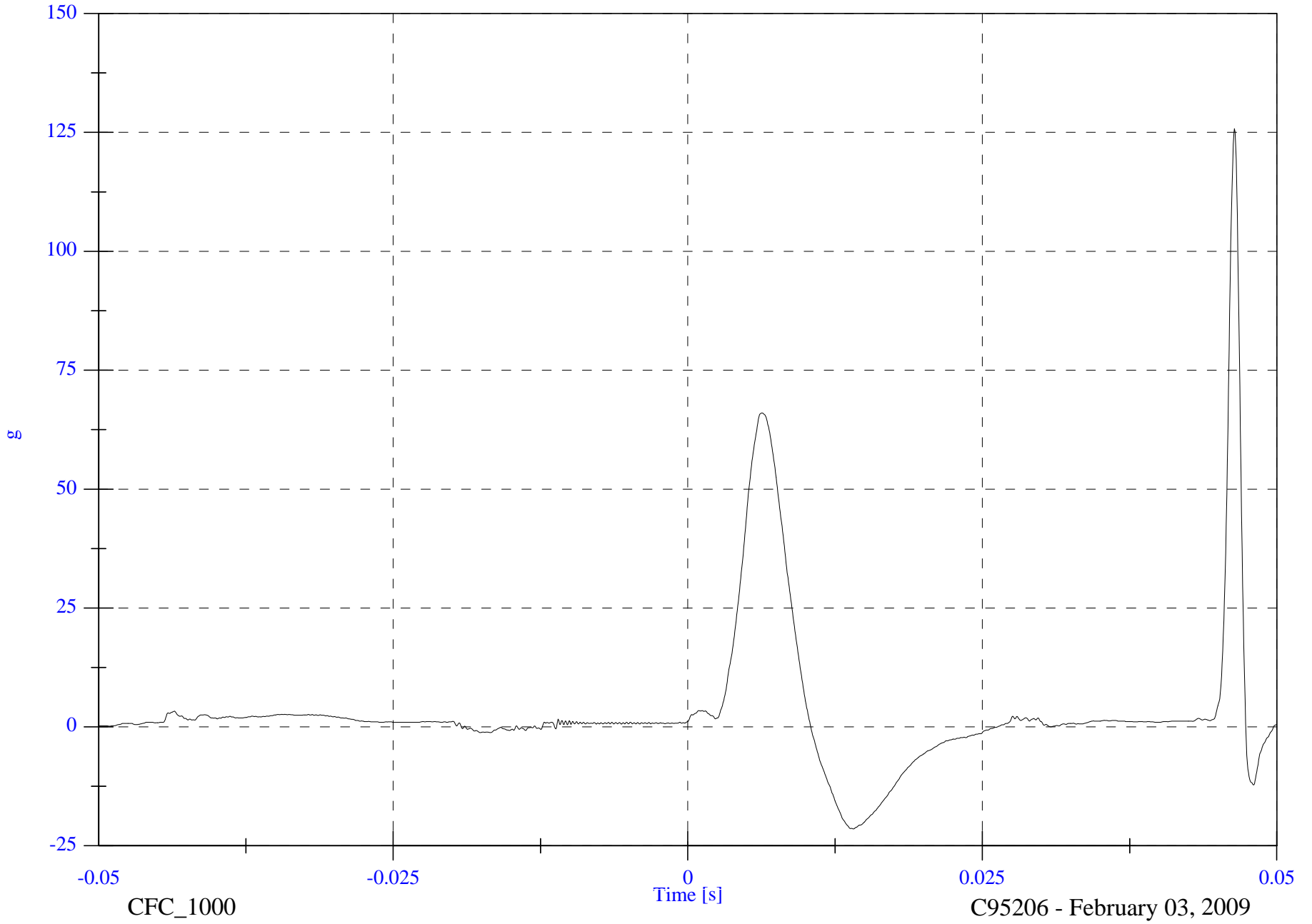
FMVSS 201U 09 Nissan Sentra

Headform Z Acceleration

Max: 125.8 [g] at 0.046 [s]

Min: -21.5 [g] at 0.014 [s]

C95206 DRIVER SIDE URBP IMPACT PLOT #3



CFC_1000

C95206 - February 03, 2009

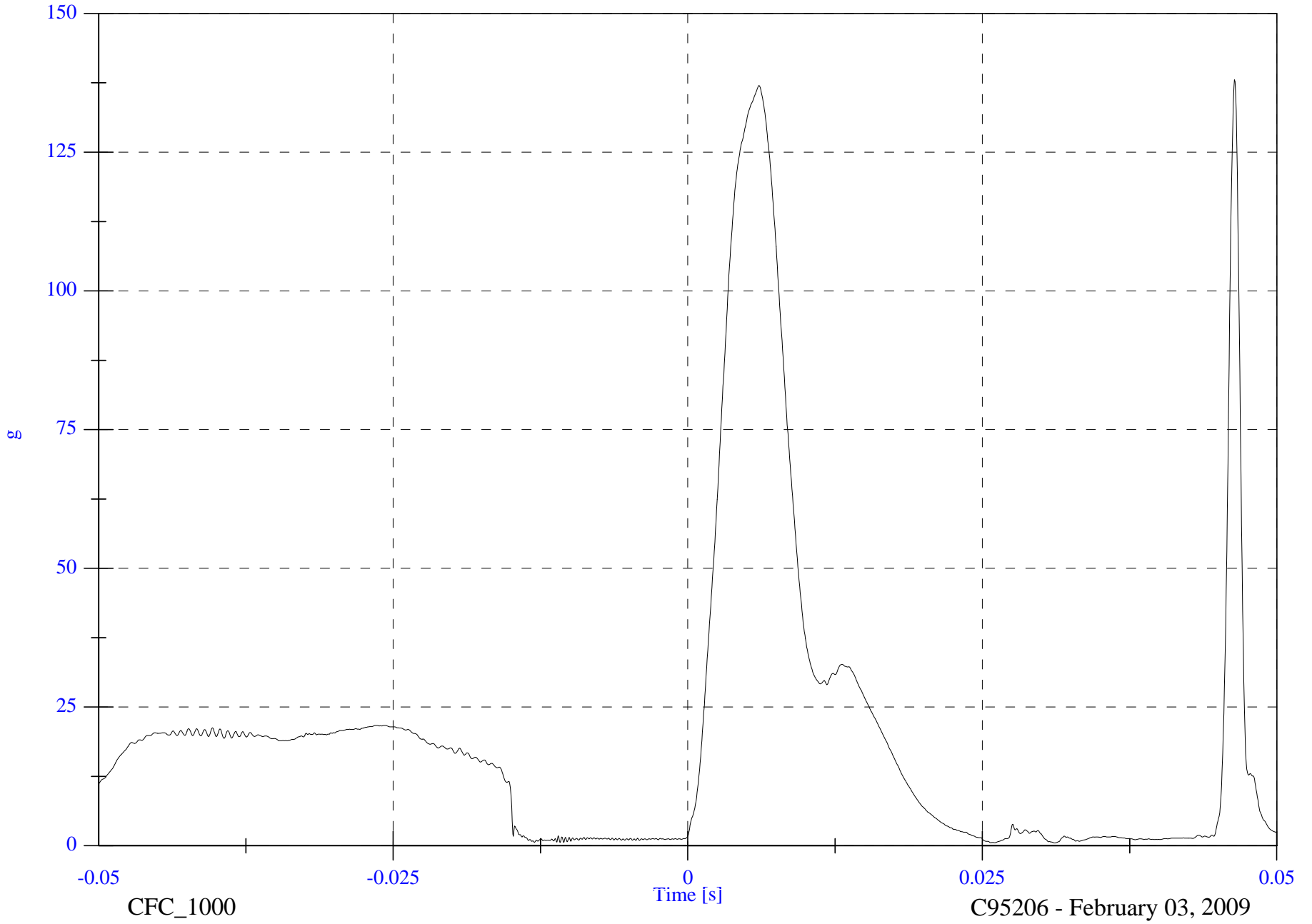
FMVSS 201U 09 Nissan Sentra

Headform Resultant

Max: 138.1 [g] at 0.046 [s]

Min: 0.5 [g] at 0.031 [s]

C95206 DRIVER SIDE URBP IMPACT PLOT #4



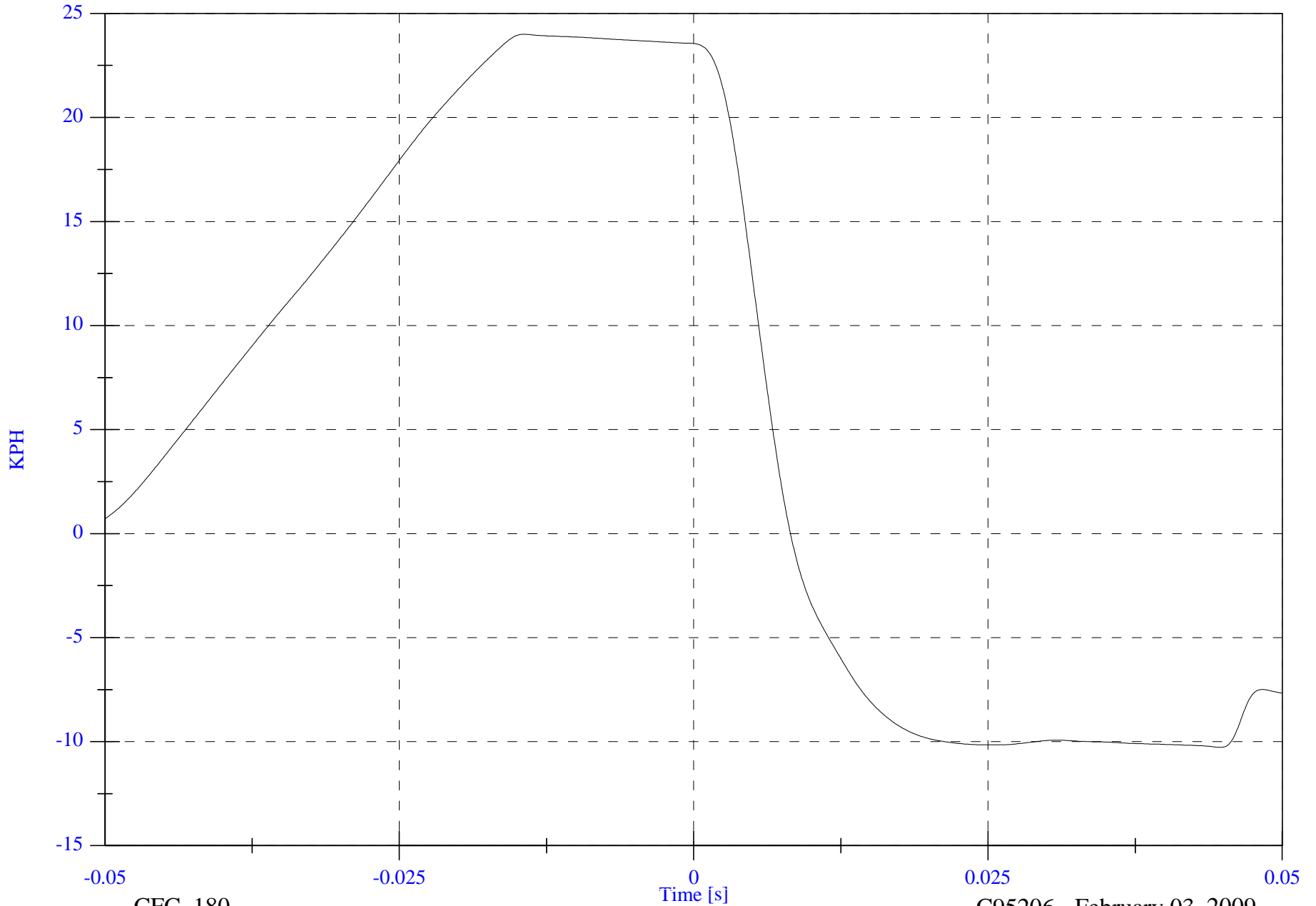
FMVSS 201U 09 Nissan Sentra

Max: 24.0 [KPH] at -0.014 [s]

Min: -10.3 [KPH] at 0.045 [s]

Headform Velocity

C95206 DRIVER SIDE URBP IMPACT PLOT #5



CFC_180

C95206 - February 03, 2009



PRE-IMPACT URBP

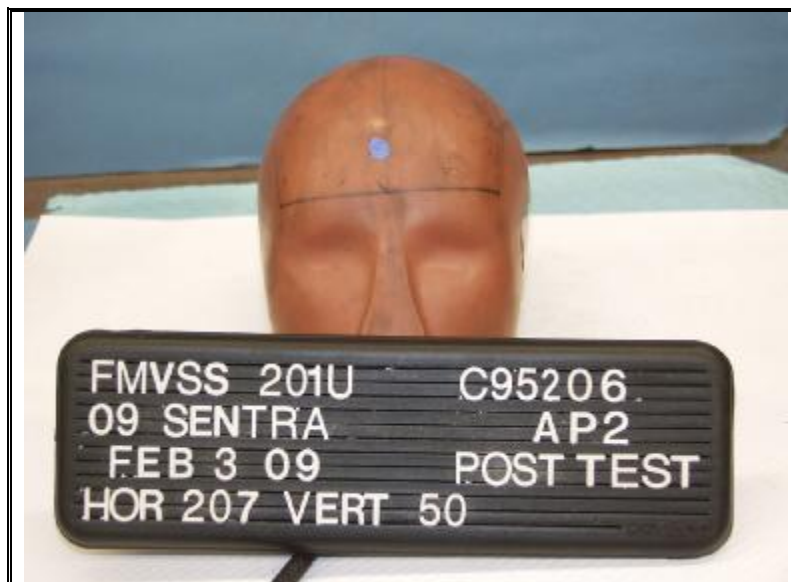


POST-IMPACT URBP

VEHICLE YEAR/MAKE/MODEL/STYLE:	2009 Nissan Sentra
VIN:	3N1AB61E39L608724
DATE OF MANUFACTURE:	10/08(SEE CERTIFICATION LABEL)
COLOR:	Gray

Test Number:	12
Test Date:	02/03/09
Target Location:	A-PILLAR
Target Code:	AP2
Horizontal Impact Angle:	207°
Vertical Impact Angle:	50°
Ambient Temperature:	20°C
Relative Humidity:	20
Time of Impact:	10:25
Headform Number:	0062

Impact Point Description (from lower midpoint on midsagittal line)					
On Centerline	2	<input checked="" type="checkbox"/>	mm right	<input type="checkbox"/>	mm left
On Centerline	20				mm up



POST-IMPACT AP2 HEADFORM

Free Motion HIC	224.9
HIC(d)	336.0
Impact Velocity (kph)	18.62
HIC T1 (msec)	0.9
HIC T2 (msec)	10.2

FMVSS 201U 09 Nissan Sentra C95206 - AP2

FMH Headform 0062

Location: AP2

Test Date: February 03, 2009

Work File: AP2

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

Lab Temperature: 20 C

HICd: 336.0

Lab Humidity: 20 %

HIC (36ms): 224.9

Velocity at Impact: 18.62 KPH

t1: 0.9 msec

t2: 10.2 msec

Free Flight Distance: 219.63 mm

Duration: 9.2 msec

Average Acceleration: 8.4 g

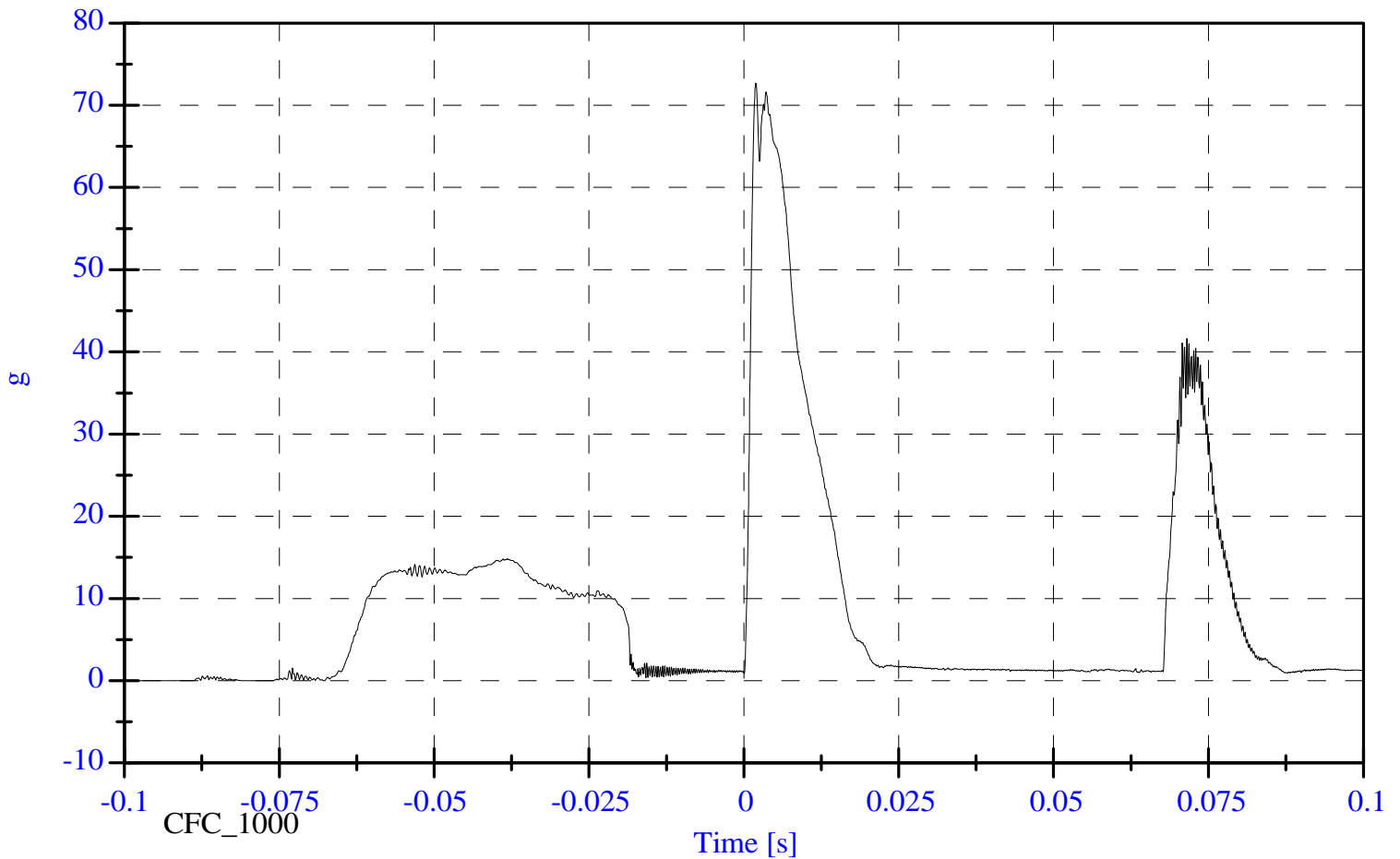
Maximum: 72.7 g

FMVSS 201U 09 Nissan Sentra

Headform Resultant

Max: 72.7 [g] at 0.002 [s]

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



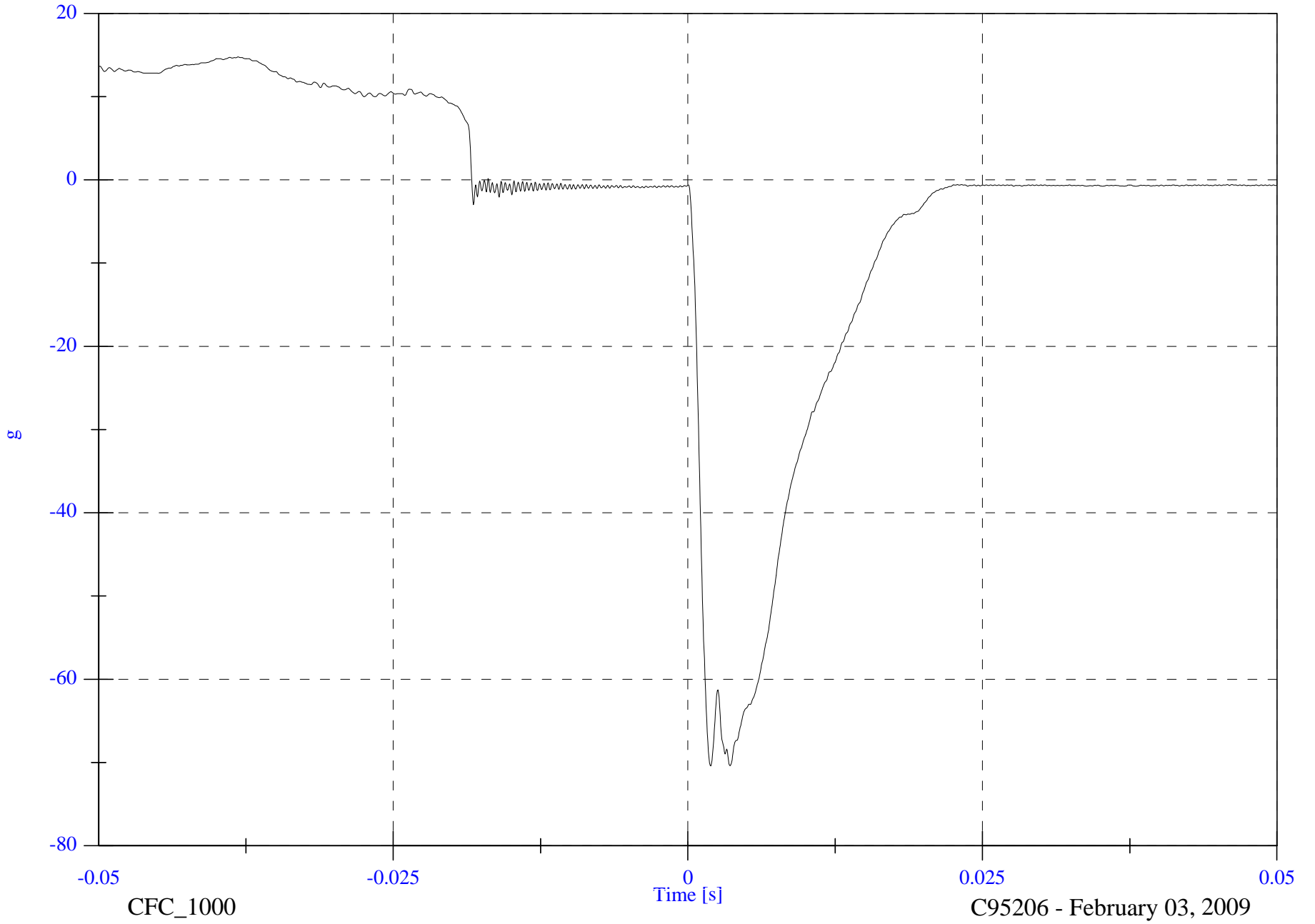
FMVSS 201U 09 Nissan Sentra

Headform X Acceleration

Max: 14.8 [g] at -0.038 [s]

Min: -70.4 [g] at 0.002 [s]

C95206 DRIVER SIDE AP2 IMPACT PLOT #1



CFC_1000

C95206 - February 03, 2009

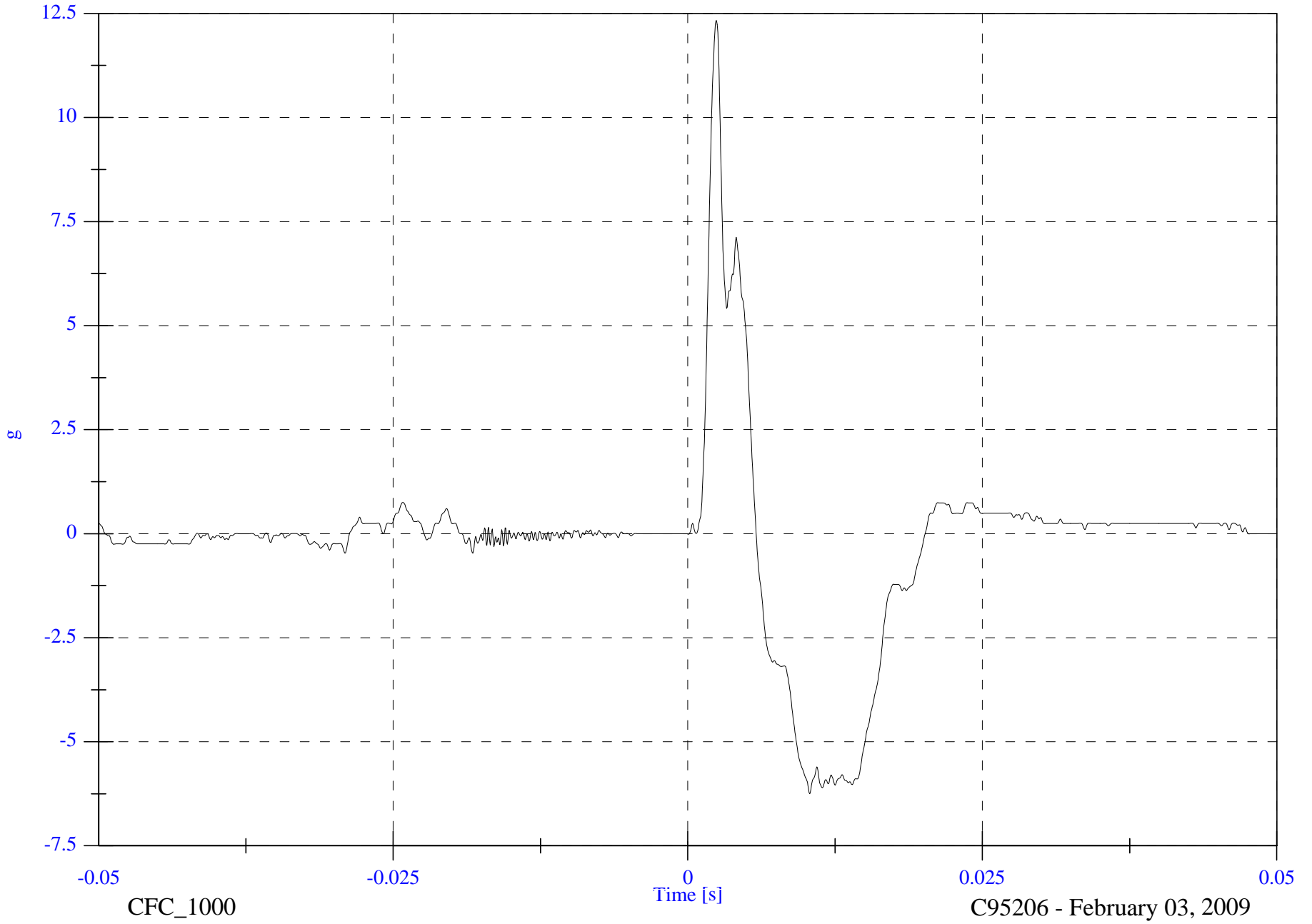
FMVSS 201U 09 Nissan Sentra

Headform Y Acceleration

Max: 12.3 [g] at 0.002 [s]

Min: -6.3 [g] at 0.010 [s]

C95206 DRIVER SIDE AP2 IMPACT PLOT #2



CFC_1000

C95206 - February 03, 2009

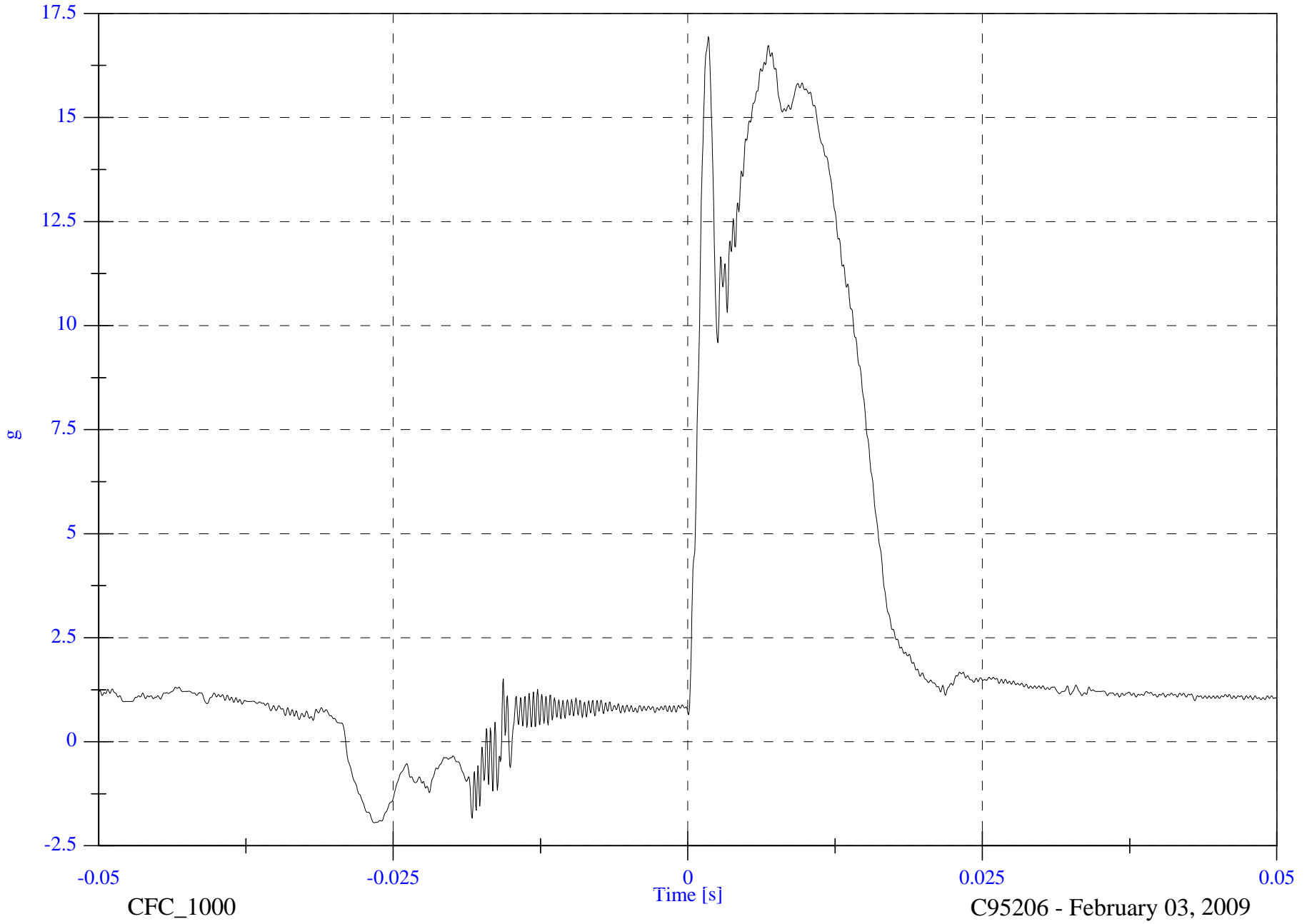
FMVSS 201U 09 Nissan Sentra

Headform Z Acceleration

Max: 16.9 [g] at 0.002 [s]

Min: -1.9 [g] at -0.027 [s]

C95206 DRIVER SIDE AP2 IMPACT PLOT #3



CFC_1000

C95206 - February 03, 2009

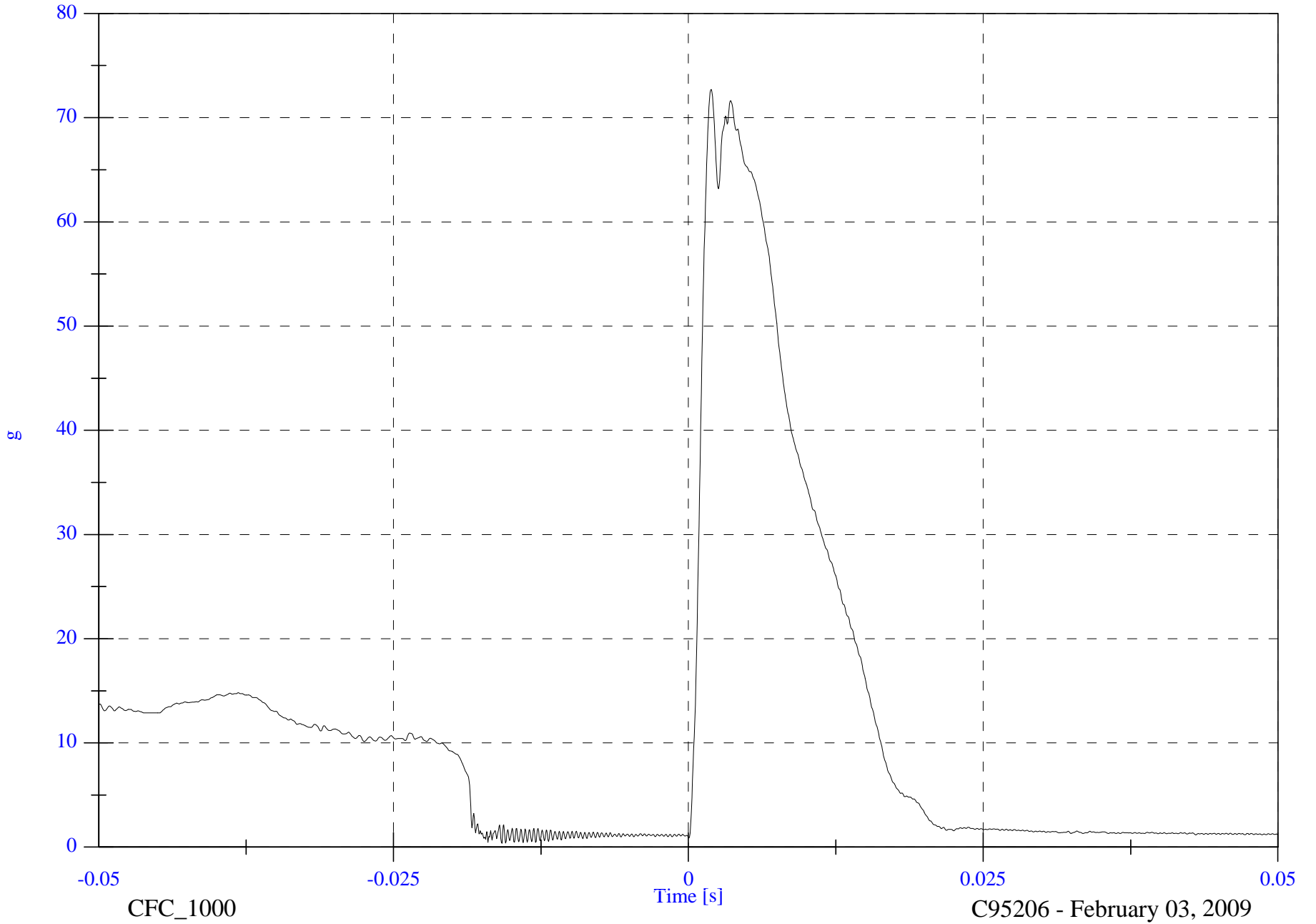
FMVSS 201U 09 Nissan Sentra

Headform Resultant

Max: 72.7 [g] at 0.002 [s]

Min: 0.4 [g] at -0.016 [s]

C95206 DRIVER SIDE AP2 IMPACT PLOT #4



CFC_1000

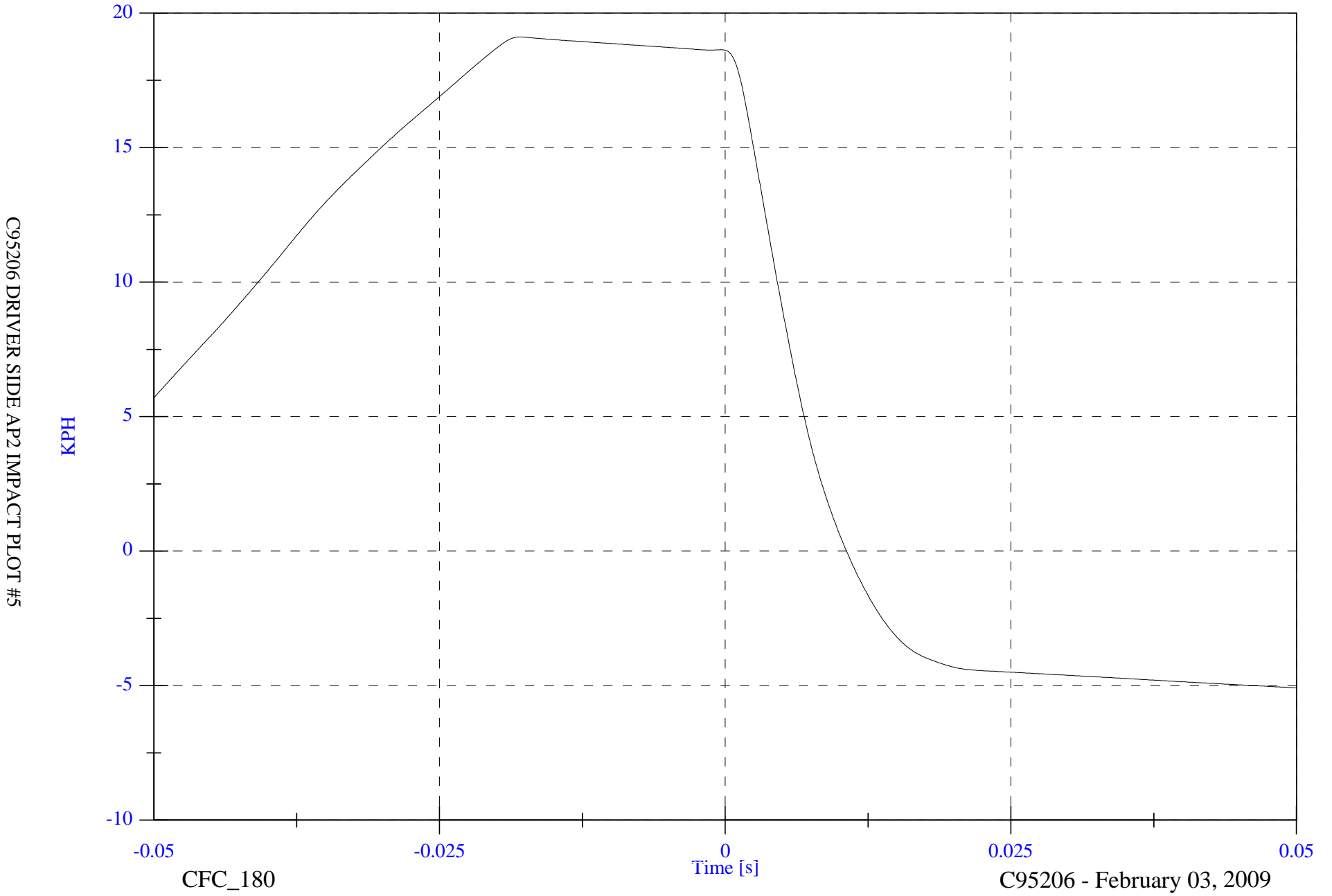
C95206 - February 03, 2009

FMVSS 201U 09 Nissan Sentra

Max: 19.1 [KPH] at -0.018 [s]

Min: -5.1 [KPH] at 0.050 [s]

Headform Velocity



C95206 DRIVER SIDE AP2 IMPACT PLOT #5

CFC_180

C95206 - February 03, 2009



PRE-IMPACT AP2



POST-IMPACT AP2

APPENDIX A

PHOTOGRAPHS

PHOTOGRAPHS

FIGURE	VIEW	PAGE
A-1	LEFT SIDE VIEW OF VEHICLE	A-3
A-2	RIGHT SIDE VIEW OF VEHICLE	A-4
A-3	3/4 FRONTAL VIEW FROM LEFT SIDE OF VEHICLE	A-5
A-4	3/4 REAR VIEW FROM RIGHT SIDE OF VEHICLE	A-6
A-5	VEHICLE'S CERTIFICATION LABEL	A-7
A-6	VEHICLE'S TIRE INFORMATION LABEL	A-8
A-7	PRE-TEST DRIVER SIDE A-PILLAR	A-9
A-8	PRE-TEST DRIVER SIDE FRONT HEADER	A-10
A-9	PRE-TEST DRIVER SIDE SIDE RAIL	A-11
A-10	PRE-TEST DRIVER SIDE B-PILLAR	A-12
A-11	PRE-TEST DRIVER SIDE REAR PILLAR	A-13
A-12	PRE-TEST PASSENGER SIDE A-PILLAR	A-14
A-13	PRE-TEST PASSENGER SIDE FRONT HEADER	A-15
A-14	PRE-TEST PASSENGER SIDE SIDE RAIL	A-16
A-15	PRE-TEST PASSENGER SIDE B-PILLAR	A-17
A-16	PRE-TEST PASSENGER SIDE REAR PILLAR	A-18
A-17	POST-TEST DRIVER SIDE A-PILLAR	A-19
A-18	POST-TEST DRIVER SIDE FRONT HEADER	A-20
A-19	POST-TEST DRIVER SIDE SIDE RAIL	A-21
A-20	POST-TEST DRIVER SIDE B-PILLAR	A-22
A-21	POST-TEST DRIVER SIDE REAR PILLAR	A-23
A-22	POST-TEST PASSENGER SIDE A-PILLAR	A-24
A-23	POST-TEST PASSENGER SIDE FRONT HEADER	A-25
A-24	POST-TEST PASSENGER SIDE SIDE RAIL	A-26
A-25	POST-TEST PASSENGER SIDE B-PILLAR	A-27
A-26	POST-TEST PASSENGER SIDE REAR PILLAR	A-28



A-3

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Figure A-1 : LEFT SIDE VIEW OF VEHICLE



Figure A-2 : RIGHT SIDE VIEW OF VEHICLE



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



Figure A-4 : 3/4 REAR VIEW FROM RIGHT 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



A-12

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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:		1140	
CALIBRATION DATE:		January 28, 2009	
TEST PARAMETER	SPECIFICATION	TEST RESULTS	
TEMPERATURE	19°C to 26°C	21	
RELATIVE HUMIDITY	10% to 70%	20	
PEAK RESULTANT ACCELERATION	225 Gs to 275 Gs	250.2	
PEAK LATERAL ACCELERATION	15 Gs Maximum	12.1	
IS ACCELERATION CURVE UNIMODAL?	YES	YES	

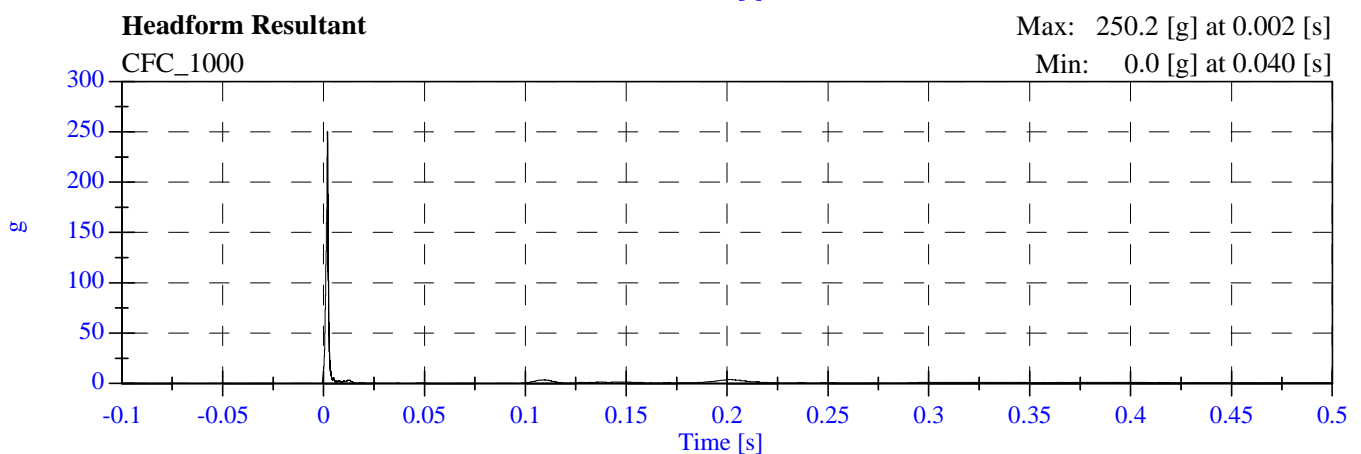
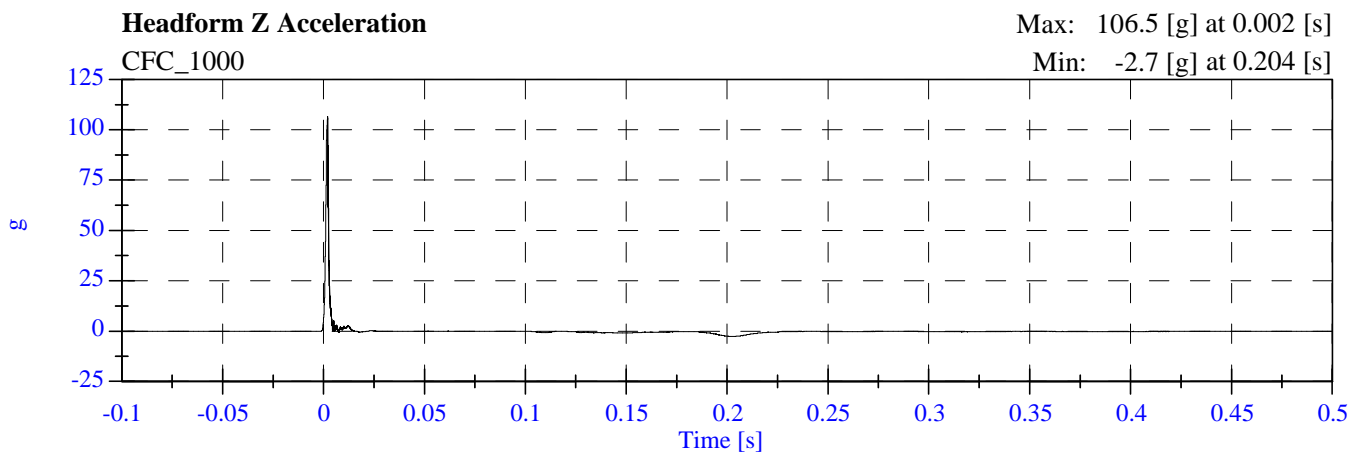
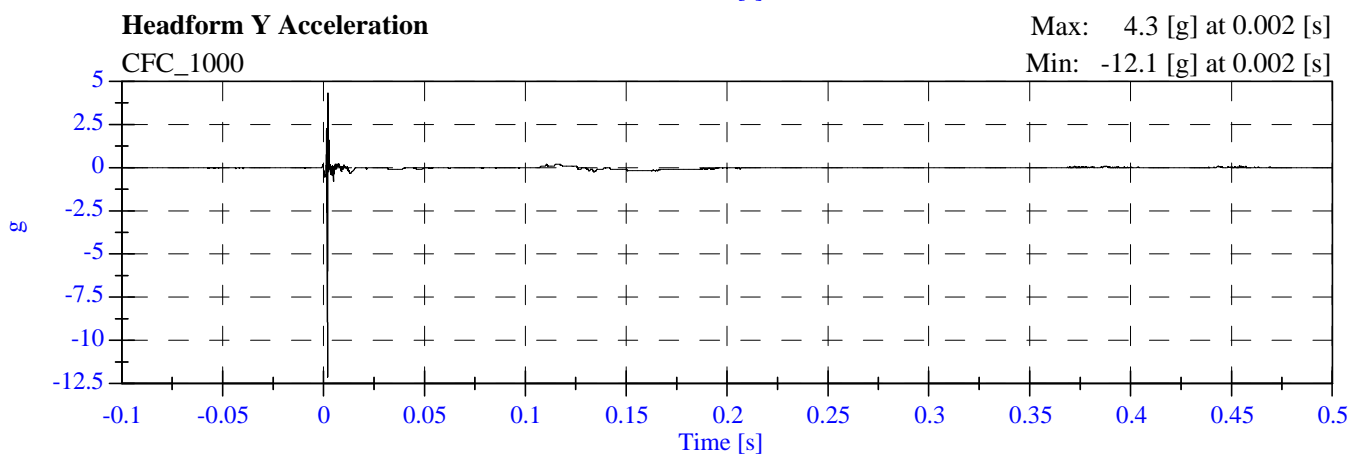
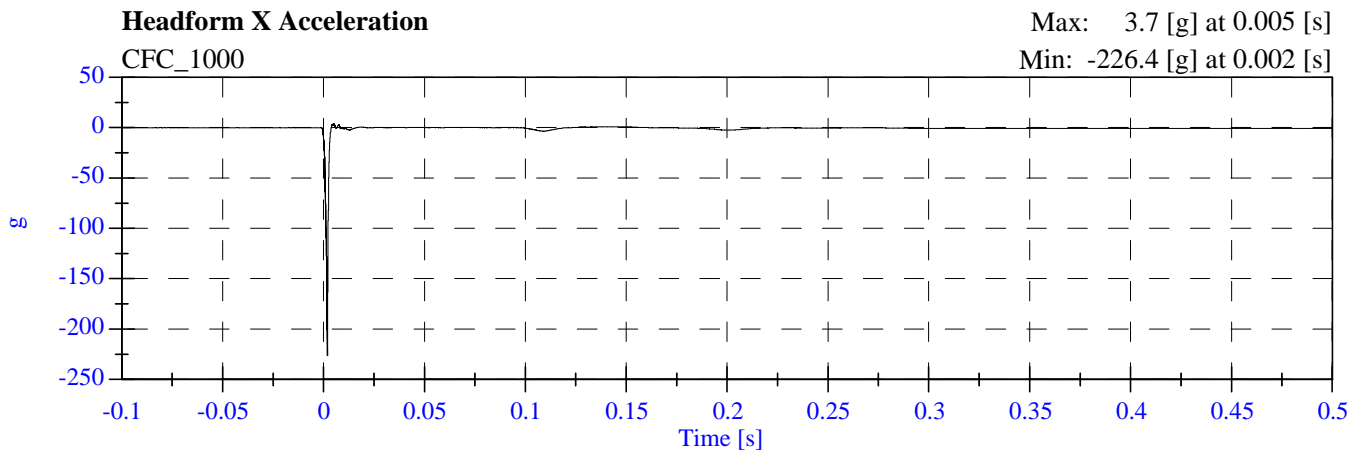
HEAD ACCELEROMETER CALIBRATION INFORMATION

I.D. NUMBER	MANUFACTURER	MODEL NUMBER	SERIAL NUMBER	DATE OF LAST CALIBRATION	DATE OF NEXT CALIBRATION
1 - LONGITUDINAL	ENDEVCO	7264-2000T	J24876	9/2/2008	3/2/2009
2 - LATERAL	ENDEVCO	7264-2000T	J33030	9/2/2008	3/2/2009
3 - VERTICAL	ENDEVCO	7264-2000T	J31009	9/2/2008	3/2/2009

REMARKS:

FMVSS 201U - Headform Calibration Drops

C95206 - January 28, 2009



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

MANUFACTURER:		DENTON ATD INC.	
SERIAL NUMBER:		0062	
CALIBRATION DATE:		January 28, 2009	
TEST PARAMETER	SPECIFICATION	TEST RESULTS	
TEMPERATURE	19°C to 26°C	21	
RELATIVE HUMIDITY	10% to 70%	20	
PEAK RESULTANT ACCELERATION	225 Gs to 275 Gs	272.0	
PEAK LATERAL ACCELERATION	15 Gs Maximum	6.4	
IS ACCELERATION CURVE UNIMODAL?	YES	YES	

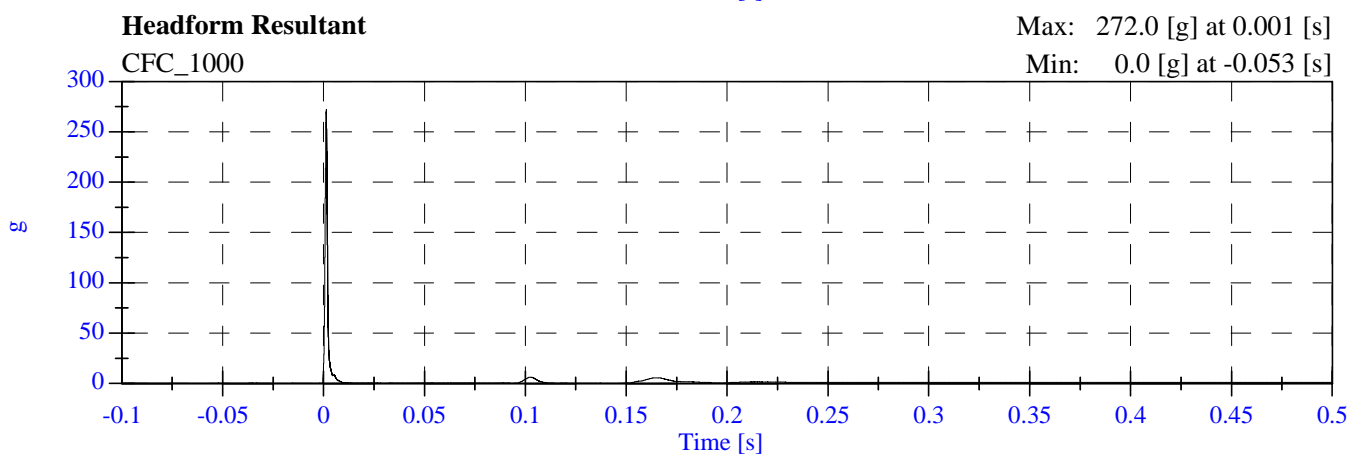
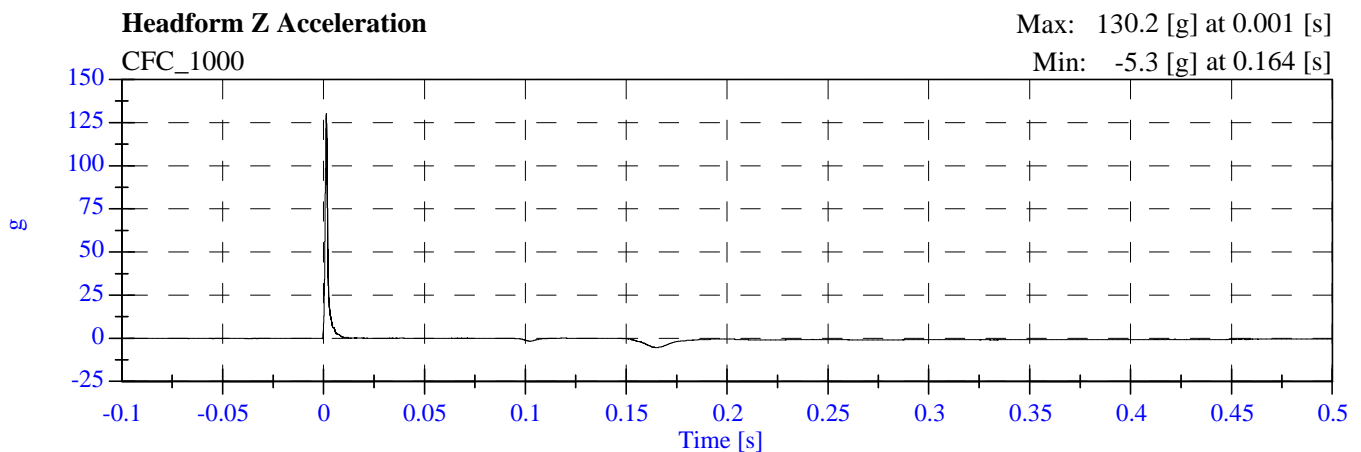
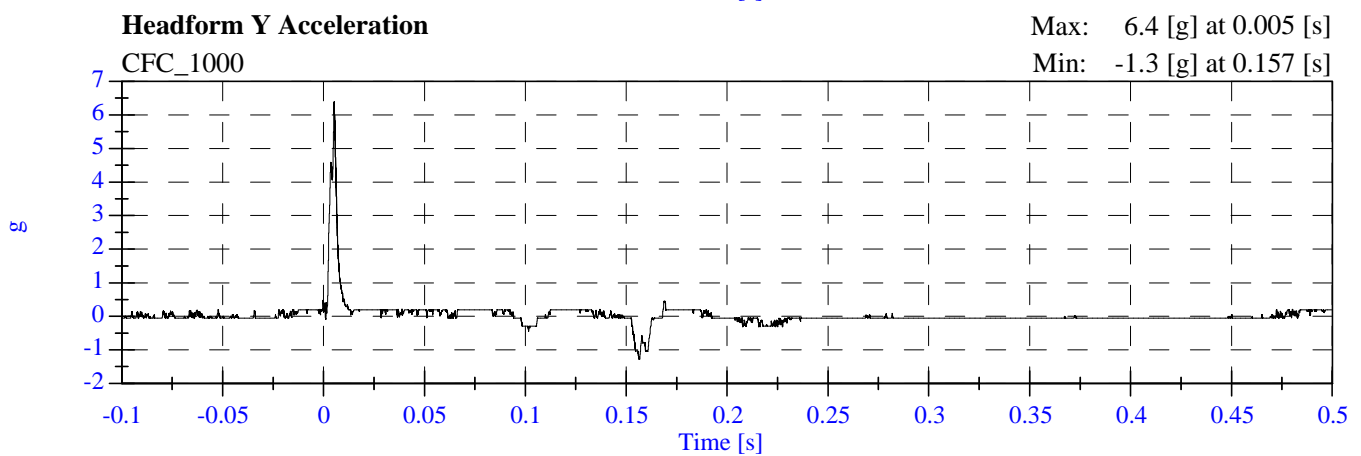
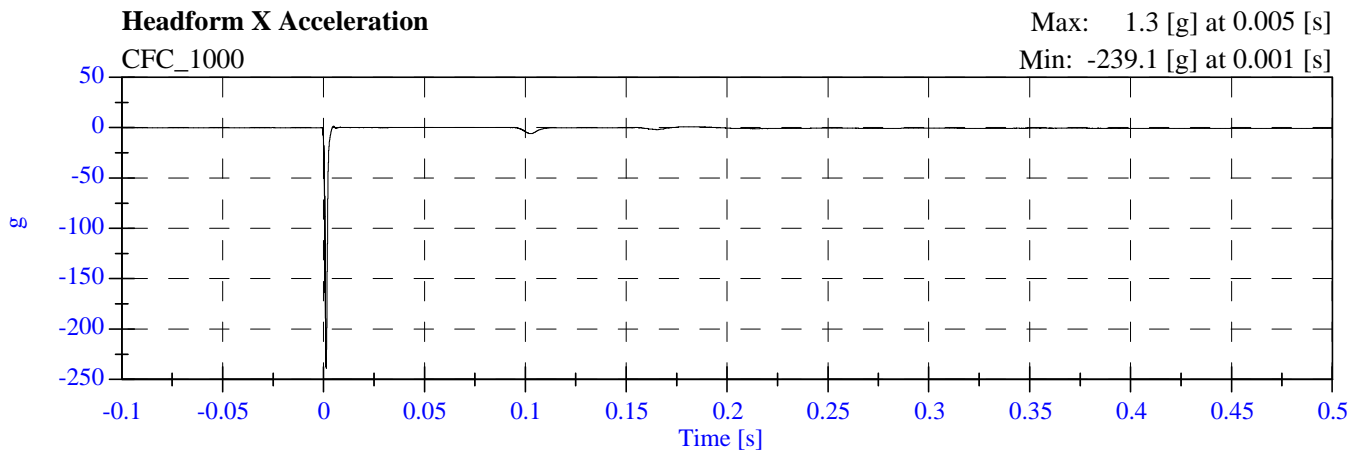
HEAD ACCELEROMETER CALIBRATION INFORMATION

I.D. NUMBER	MANUFACTURER	MODEL NUMBER	SERIAL NUMBER	DATE OF LAST CALIBRATION	DATE OF NEXT CALIBRATION
1 - LONGITUDINAL	ENDEVCO	7264-2000T	J33127	9/2/2008	3/2/2009
2 - LATERAL	ENDEVCO	7264-2000T	J33019	9/2/2008	3/2/2009
3 - VERTICAL	ENDEVCO	7264-2000T	J32782	9/2/2008	3/2/2009

REMARKS:

FMVSS 201U - Headform Calibration Drops

C95206 - January 28, 2009



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

MANUFACTURER:		FIRST TECHNOLOGY SAFETY SYSTEMS	
SERIAL NUMBER:		805	
CALIBRATION DATE:		January 28, 2009	
TEST PARAMETER	SPECIFICATION	TEST RESULTS	
TEMPERATURE	19°C to 26°C	21	
RELATIVE HUMIDITY	10% to 70%	20	
PEAK RESULTANT ACCELERATION	225 Gs to 275 Gs	265.8	
PEAK LATERAL ACCELERATION	15 Gs Maximum	9.1	
IS ACCELERATION CURVE UNIMODAL?	YES	YES	

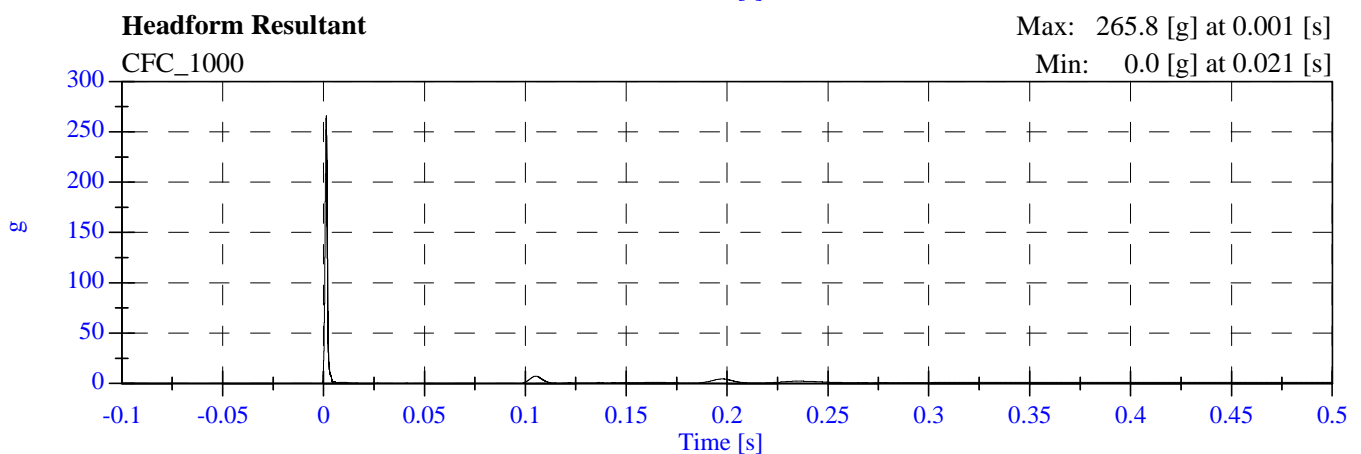
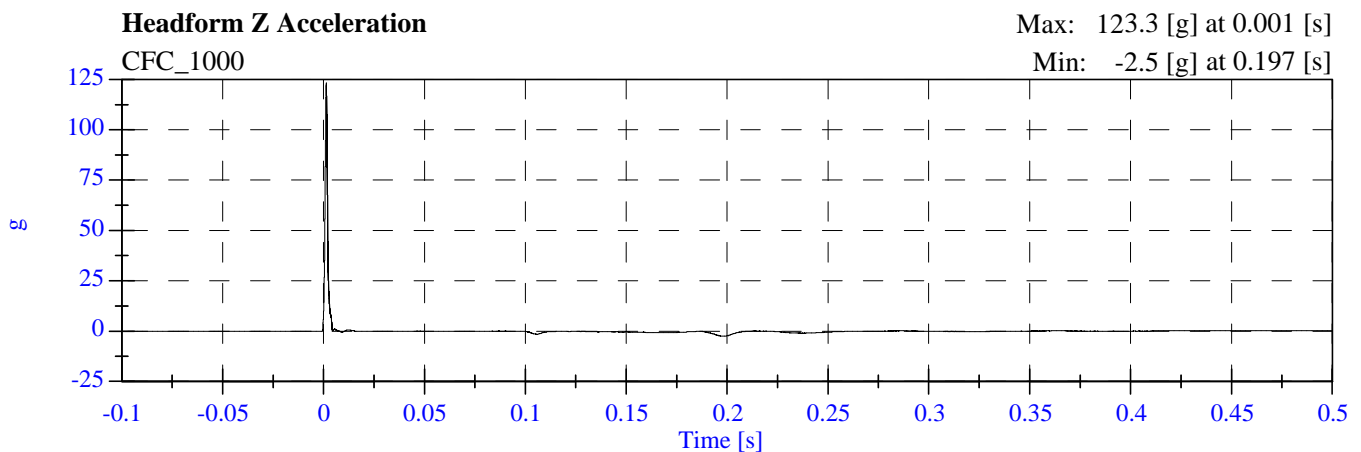
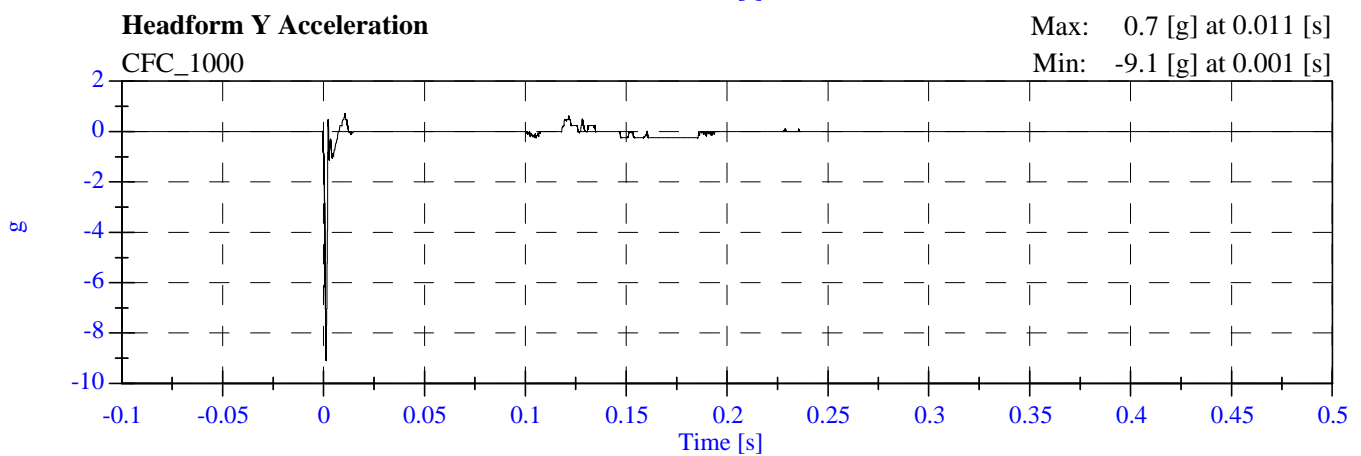
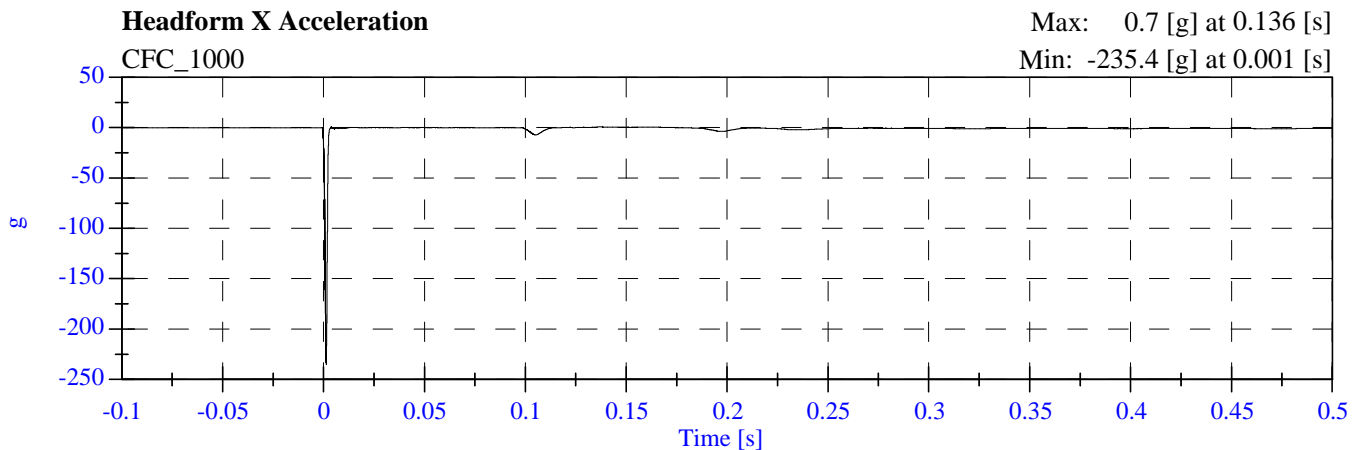
HEAD ACCELEROMETER CALIBRATION INFORMATION

I.D. NUMBER	MANUFACTURER	MODEL NUMBER	SERIAL NUMBER	DATE OF LAST CALIBRATION	DATE OF NEXT CALIBRATION
1 - LONGITUDINAL	ENDEVCO	7264-2000T	J41004	9/2/2008	3/2/2009
2 - LATERAL	ENDEVCO	7264-2000T	J37496	9/2/2008	3/2/2009
3 - VERTICAL	ENDEVCO	7264-2000T	J41016	9/2/2008	3/2/2009

REMARKS:

FMVSS 201U - Headform Calibration Drops

C95206 - January 28, 2009



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

MANUFACTURER:		DENTON ATD INC.	
SERIAL NUMBER:		0355	
CALIBRATION DATE:		January 28, 2009	
TEST PARAMETER	SPECIFICATION	TEST RESULTS	
TEMPERATURE	19°C to 26°C	21	
RELATIVE HUMIDITY	10% to 70%	20	
PEAK RESULTANT ACCELERATION	225 Gs to 275 Gs	249.2	
PEAK LATERAL ACCELERATION	15 Gs Maximum	3.8	
IS ACCELERATION CURVE UNIMODAL?	YES	YES	

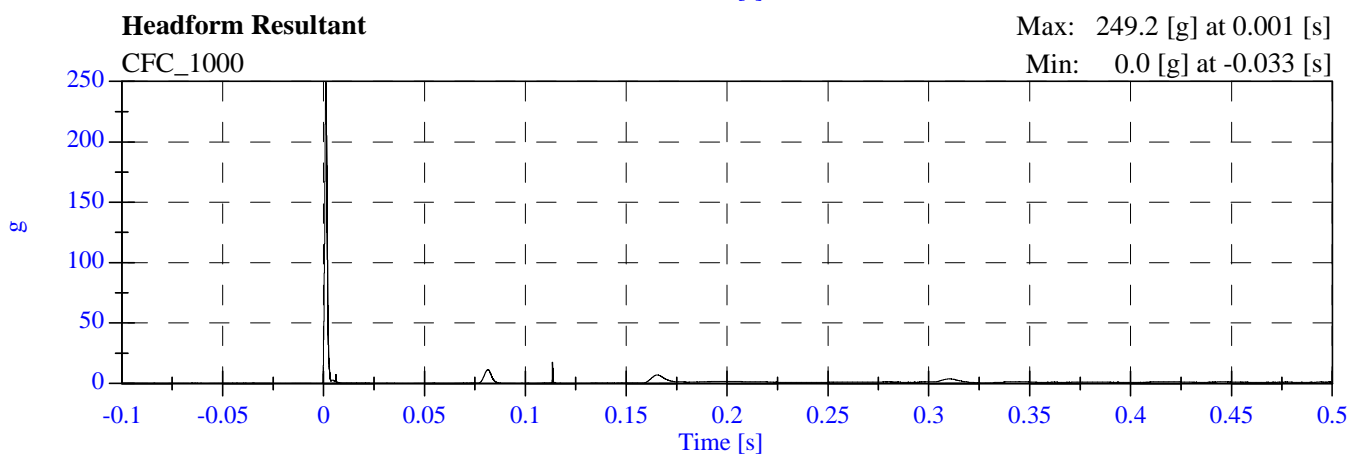
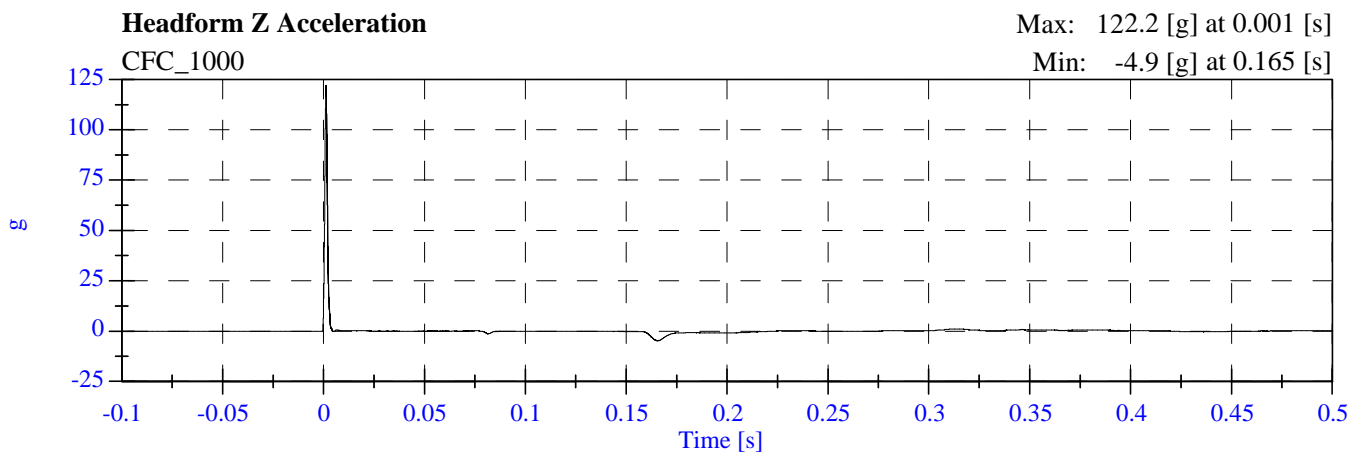
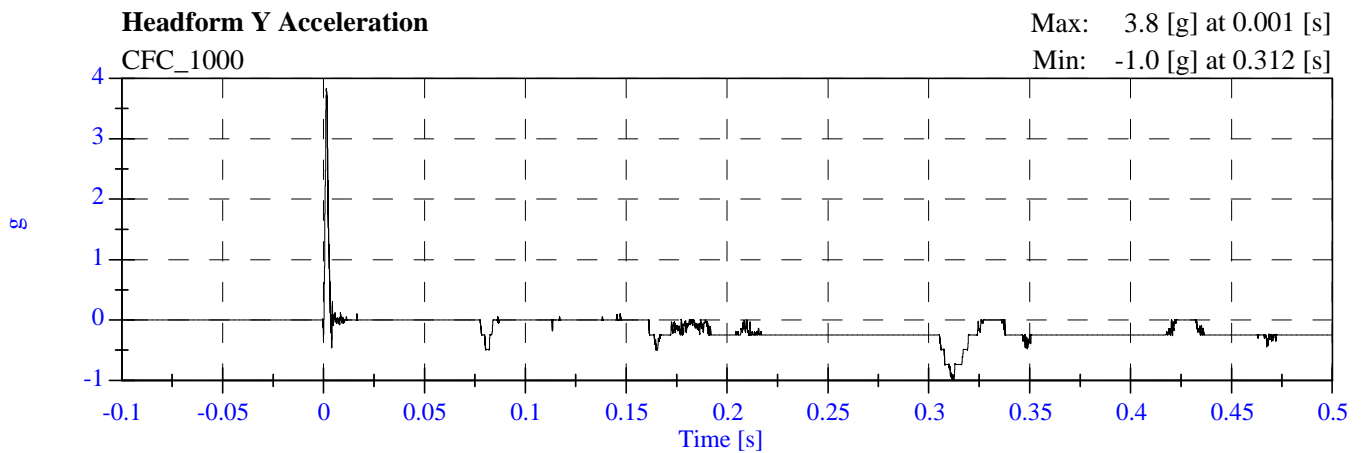
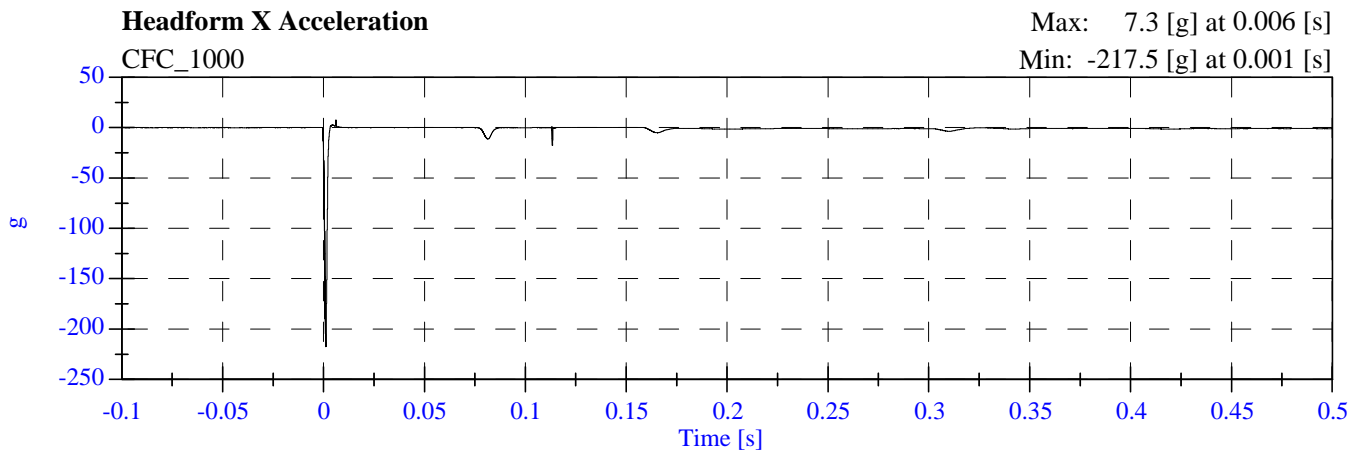
HEAD ACCELEROMETER CALIBRATION INFORMATION

I.D. NUMBER	MANUFACTURER	MODEL NUMBER	SERIAL NUMBER	DATE OF LAST CALIBRATION	DATE OF NEXT CALIBRATION
1 - LONGITUDINAL	ENDEVCO	7264-2000T	J28671	9/2/2008	3/2/2009
2 - LATERAL	ENDEVCO	7264-2000T	J32779	9/2/2008	3/2/2009
3 - VERTICAL	ENDEVCO	7264-2000T	J25854	9/2/2008	3/2/2009

REMARKS:

FMVSS 201U - Headform Calibration Drops

C95206 - January 28, 2009



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

MANUFACTURER:		FIRST TECHNOLOGY SAFETY SYSTEMS	
SERIAL NUMBER:		1142	
CALIBRATION DATE:		January 28, 2009	
TEST PARAMETER	SPECIFICATION	TEST RESULTS	
TEMPERATURE	19°C to 26°C	21	
RELATIVE HUMIDITY	10% to 70%	20	
PEAK RESULTANT ACCELERATION	225 Gs to 275 Gs	230.4	
PEAK LATERAL ACCELERATION	15 Gs Maximum	6.2	
IS ACCELERATION CURVE UNIMODAL?	YES	YES	

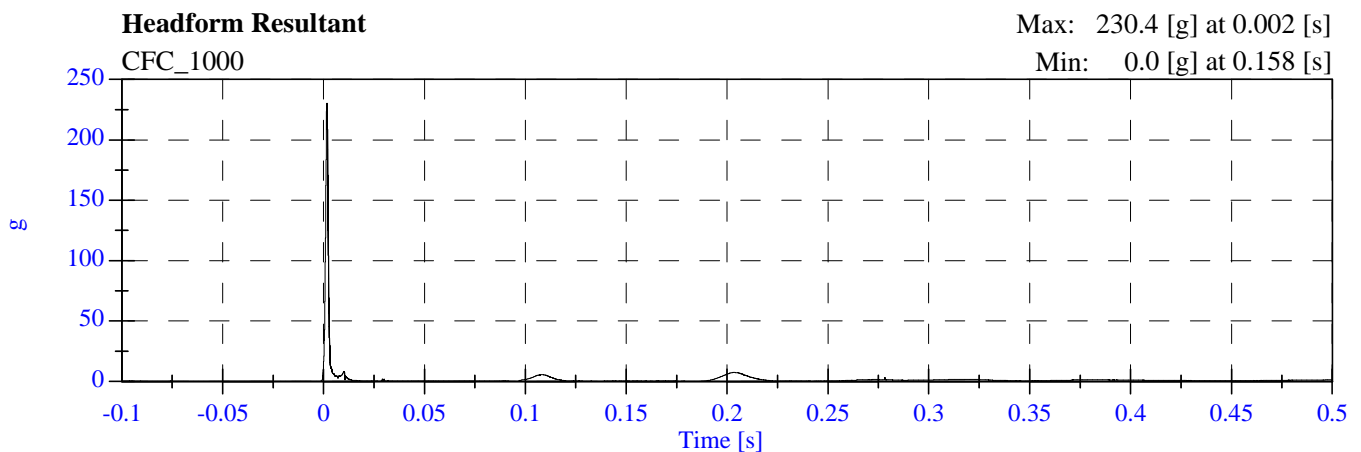
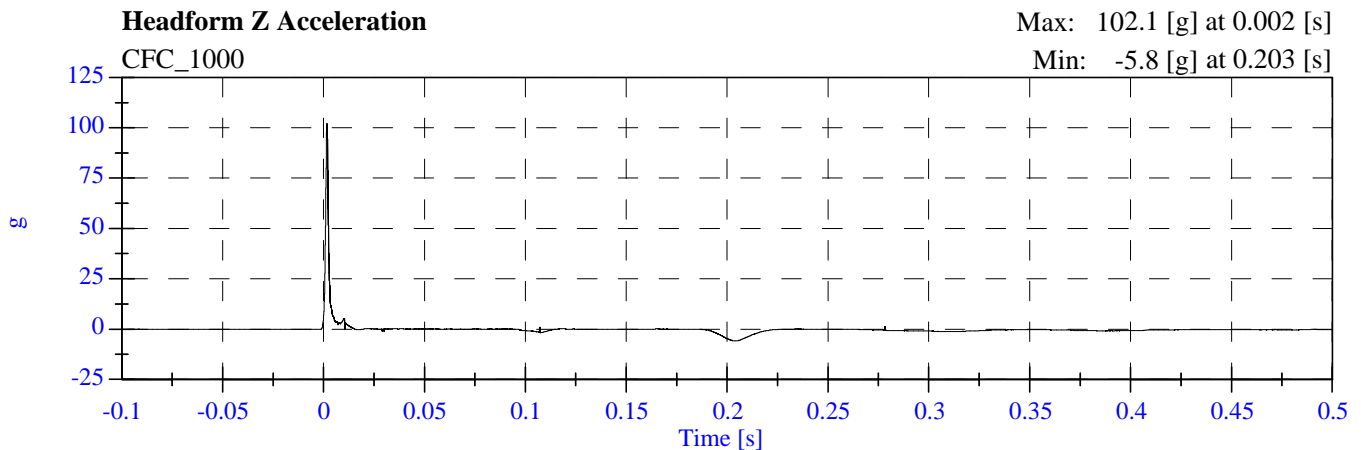
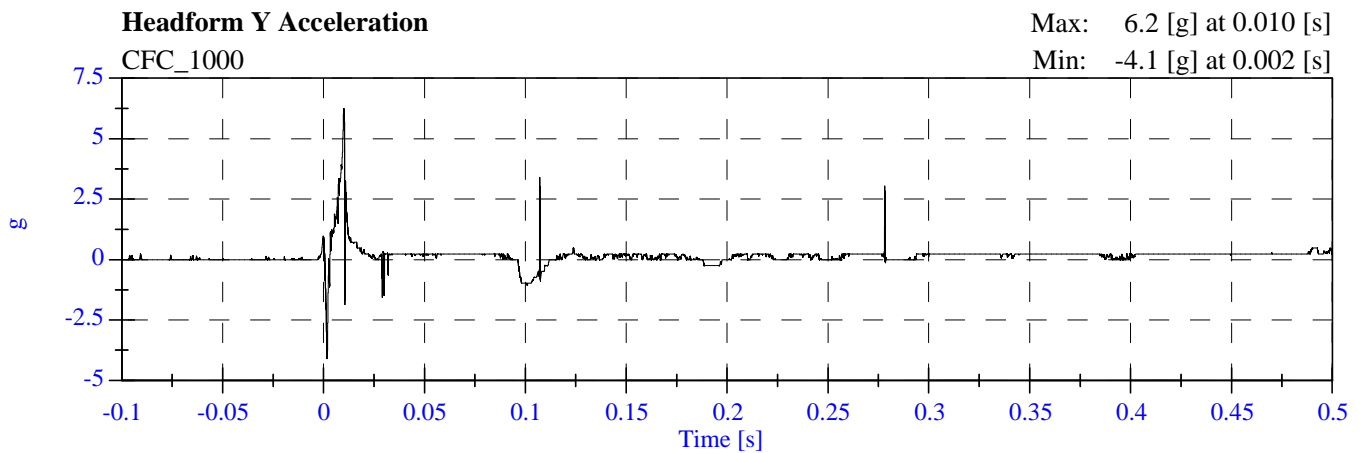
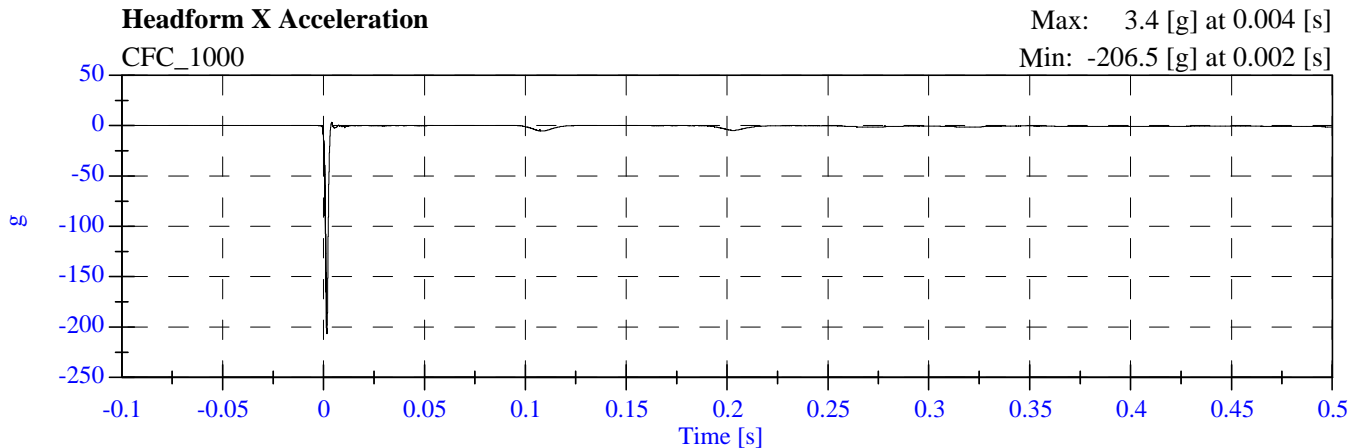
HEAD ACCELEROMETER CALIBRATION INFORMATION

I.D. NUMBER	MANUFACTURER	MODEL NUMBER	SERIAL NUMBER	DATE OF LAST CALIBRATION	DATE OF NEXT CALIBRATION
1 - LONGITUDINAL	ENDEVCO	7264-2000T	J41006	9/2/2008	3/2/2009
2 - LATERAL	ENDEVCO	7264-2000T	J40994	9/2/2008	3/2/2009
3 - VERTICAL	ENDEVCO	7264-2000T	J41007	9/2/2008	3/2/2009

REMARKS:

FMVSS 201U - Headform Calibration Drops

C95206 - January 28, 2009



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

MANUFACTURER:		FIRST TECHNOLOGY SAFETY SYSTEMS	
SERIAL NUMBER:		1140	
CALIBRATION DATE:		February 3, 2009	
TEST PARAMETER	SPECIFICATION	TEST RESULTS	
TEMPERATURE	19°C to 26°C	20	
RELATIVE HUMIDITY	10% to 70%	24	
PEAK RESULTANT ACCELERATION	225 Gs to 275 Gs	258.3	
PEAK LATERAL ACCELERATION	15 Gs Maximum	5.7	
IS ACCELERATION CURVE UNIMODAL?	YES	YES	

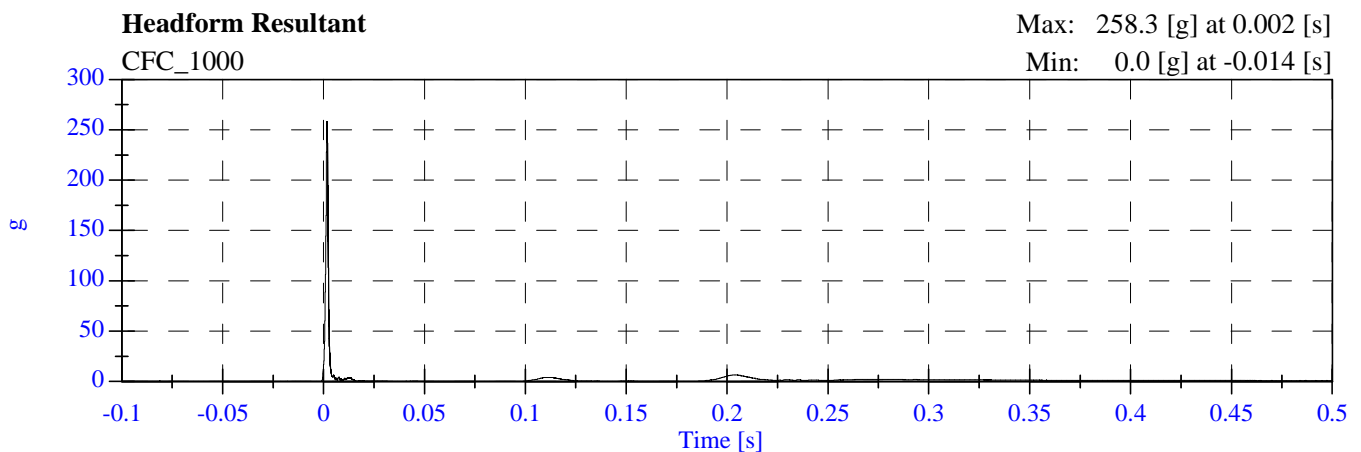
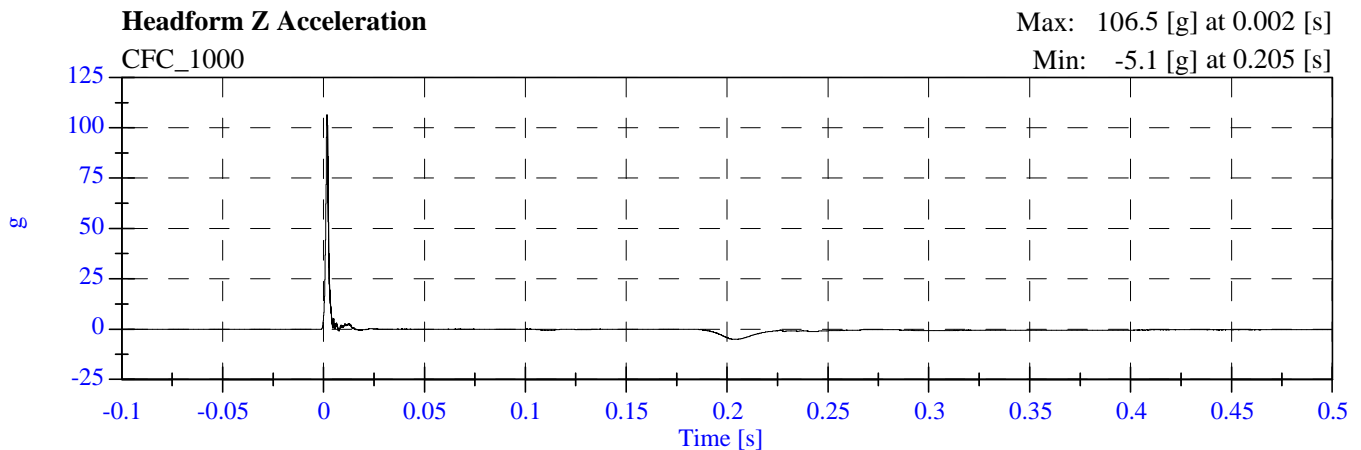
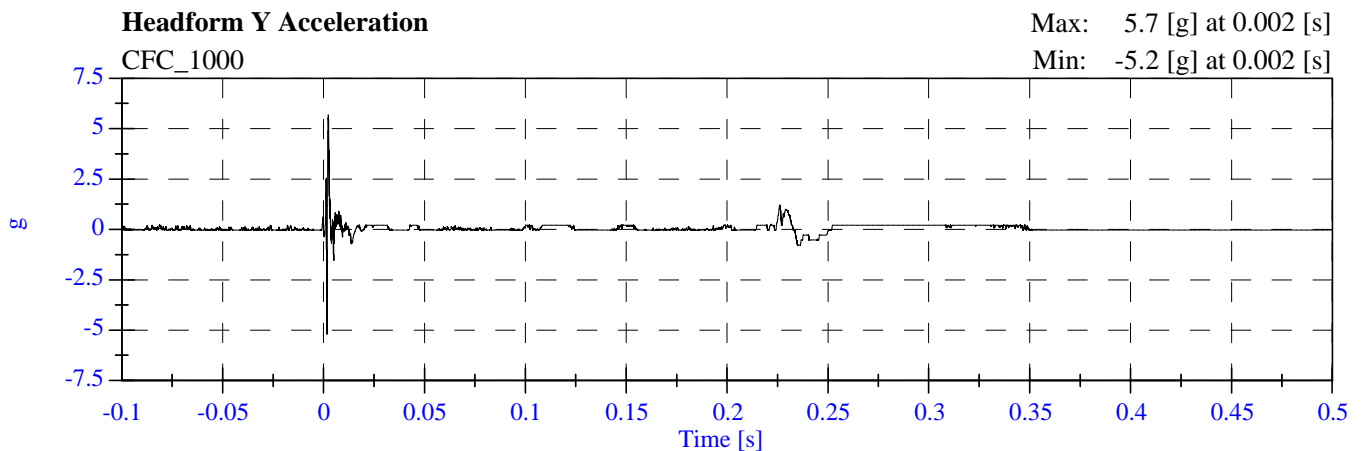
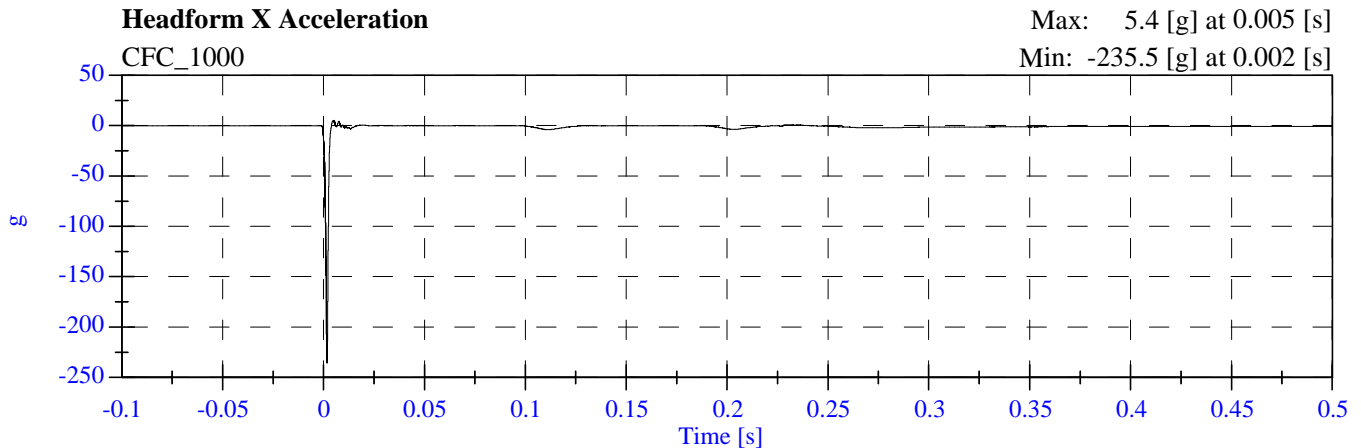
HEAD ACCELEROMETER CALIBRATION INFORMATION

I.D. NUMBER	MANUFACTURER	MODEL NUMBER	SERIAL NUMBER	DATE OF LAST CALIBRATION	DATE OF NEXT CALIBRATION
1 - LONGITUDINAL	ENDEVCO	7264-2000T	J24876	9/2/2008	3/2/2009
2 - LATERAL	ENDEVCO	7264-2000T	J33030	9/2/2008	3/2/2009
3 - VERTICAL	ENDEVCO	7264-2000T	J31009	9/2/2008	3/2/2009

REMARKS:

FMVSS 201U - Headform Calibration Drops

C95206 - February 03, 2009



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

MANUFACTURER:		DENTON ATD INC.	
SERIAL NUMBER:		0062	
CALIBRATION DATE:		February 3, 2009	
TEST PARAMETER	SPECIFICATION	TEST RESULTS	
TEMPERATURE	19°C to 26°C	20	
RELATIVE HUMIDITY	10% to 70%	24	
PEAK RESULTANT ACCELERATION	225 Gs to 275 Gs	238.4	
PEAK LATERAL ACCELERATION	15 Gs Maximum	5.8	
IS ACCELERATION CURVE UNIMODAL?	YES	YES	

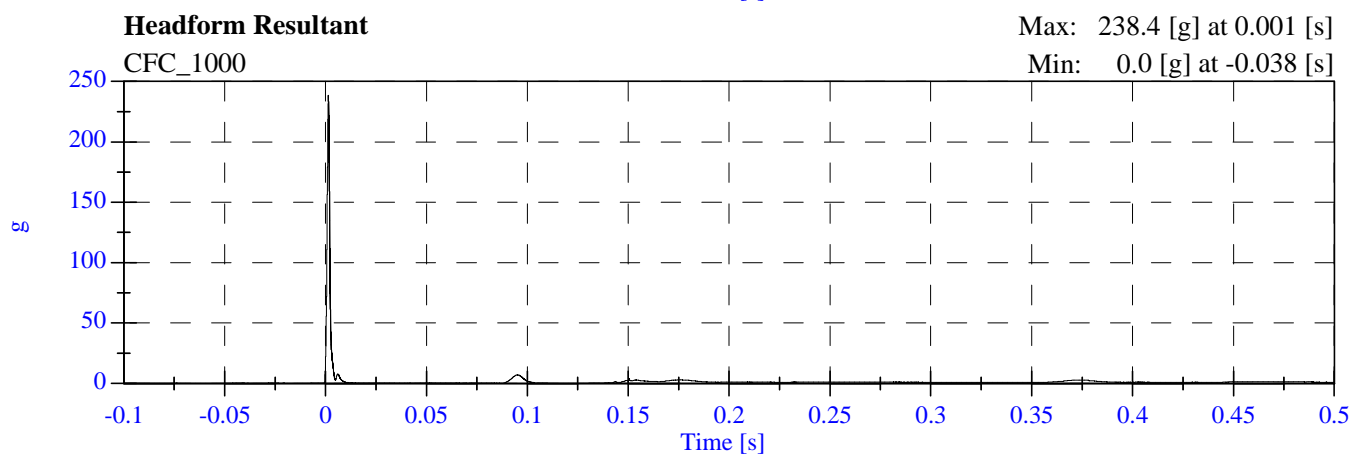
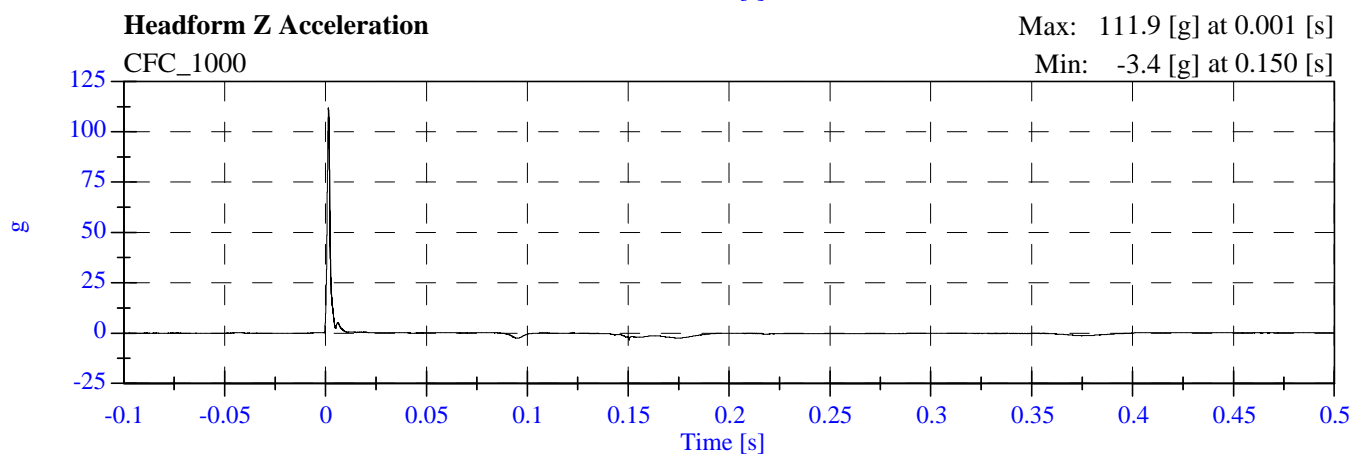
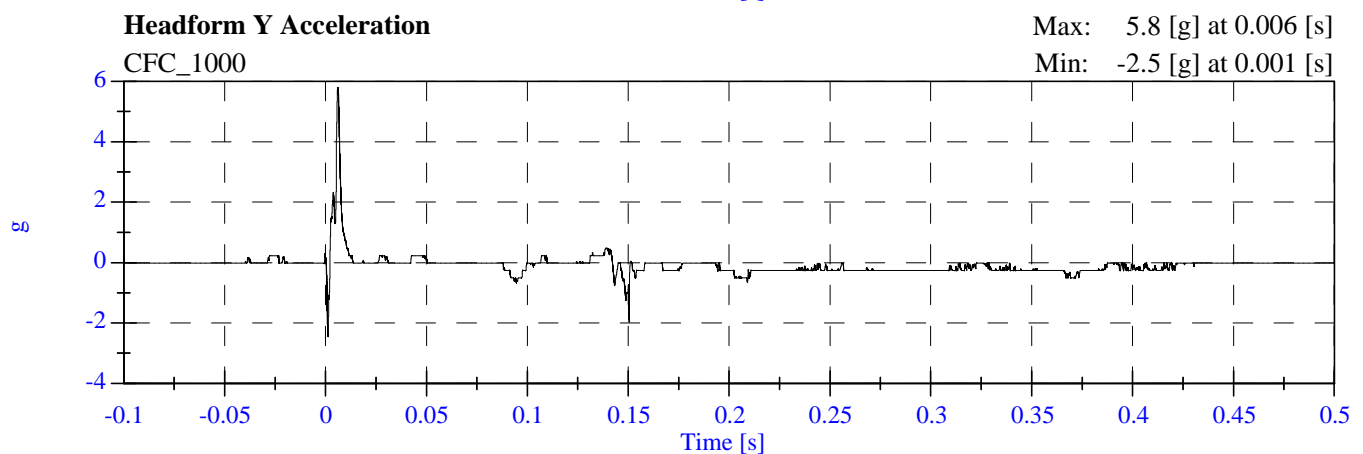
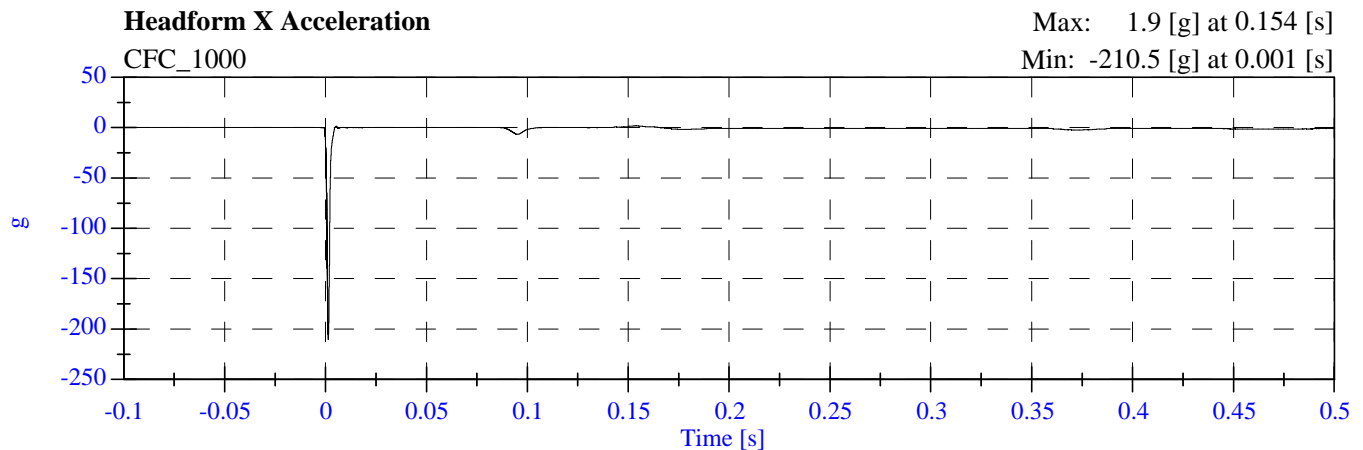
HEAD ACCELEROMETER CALIBRATION INFORMATION

I.D. NUMBER	MANUFACTURER	MODEL NUMBER	SERIAL NUMBER	DATE OF LAST CALIBRATION	DATE OF NEXT CALIBRATION
1 - LONGITUDINAL	ENDEVCO	7264-2000T	J33127	9/2/2008	3/2/2009
2 - LATERAL	ENDEVCO	7264-2000T	J33019	9/2/2008	3/2/2009
3 - VERTICAL	ENDEVCO	7264-2000T	J32782	9/2/2008	3/2/2009

REMARKS:

FMVSS 201U - Headform Calibration Drops

C95206 - February 03, 2009



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

MANUFACTURER:		FIRST TECHNOLOGY SAFETY SYSTEMS	
SERIAL NUMBER:		805	
CALIBRATION DATE:		February 3, 2009	
TEST PARAMETER	SPECIFICATION	TEST RESULTS	
TEMPERATURE	19°C to 26°C	20	
RELATIVE HUMIDITY	10% to 70%	24	
PEAK RESULTANT ACCELERATION	225 Gs to 275 Gs	264.3	
PEAK LATERAL ACCELERATION	15 Gs Maximum	8.6	
IS ACCELERATION CURVE UNIMODAL?	YES	YES	

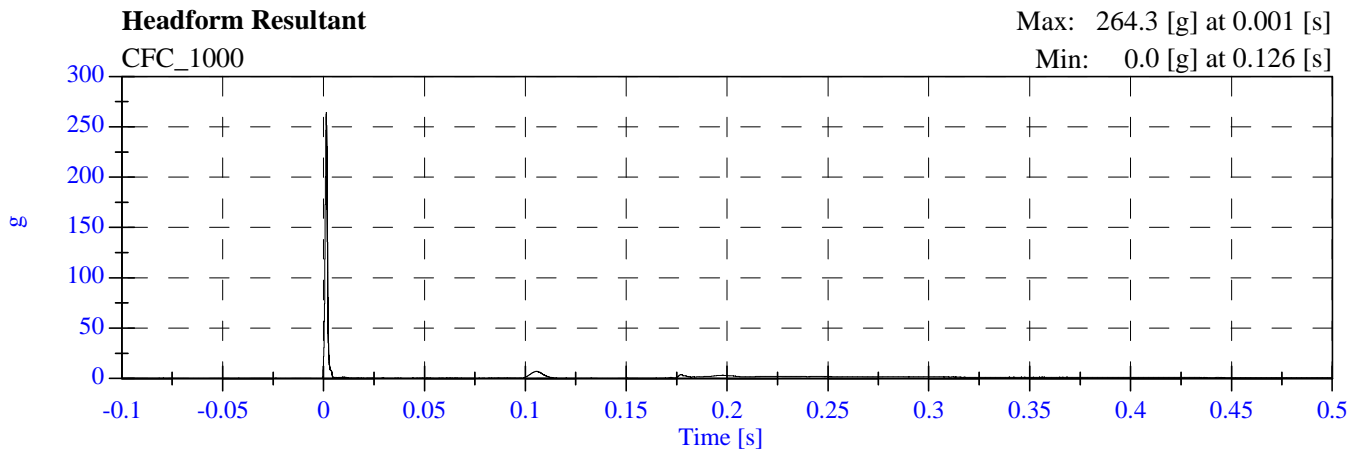
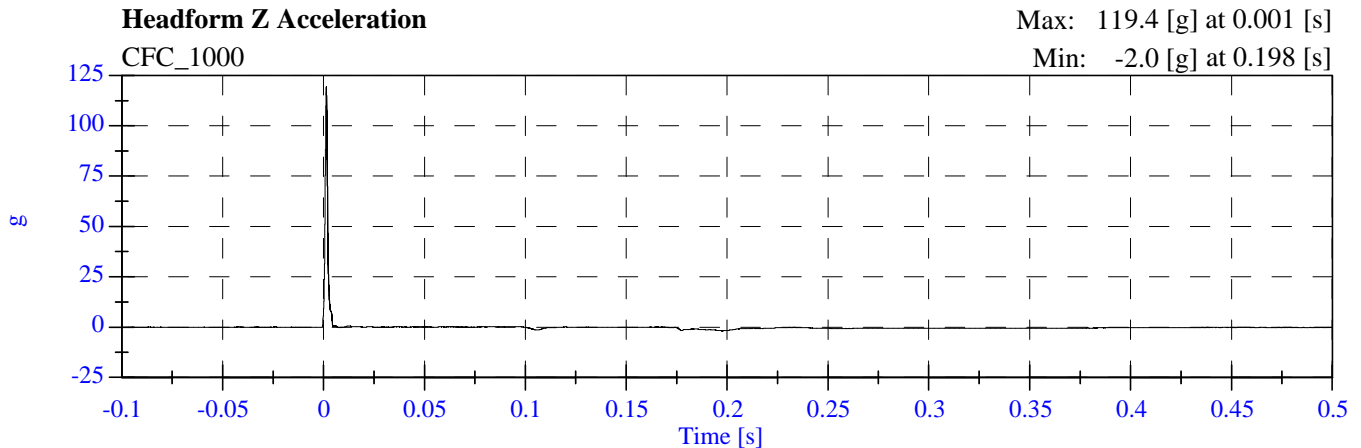
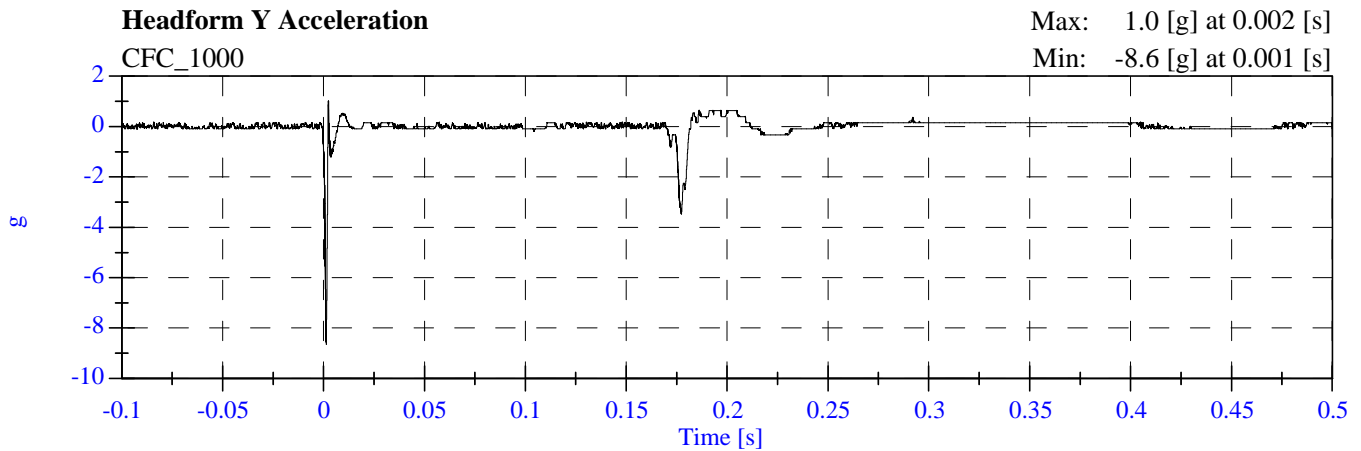
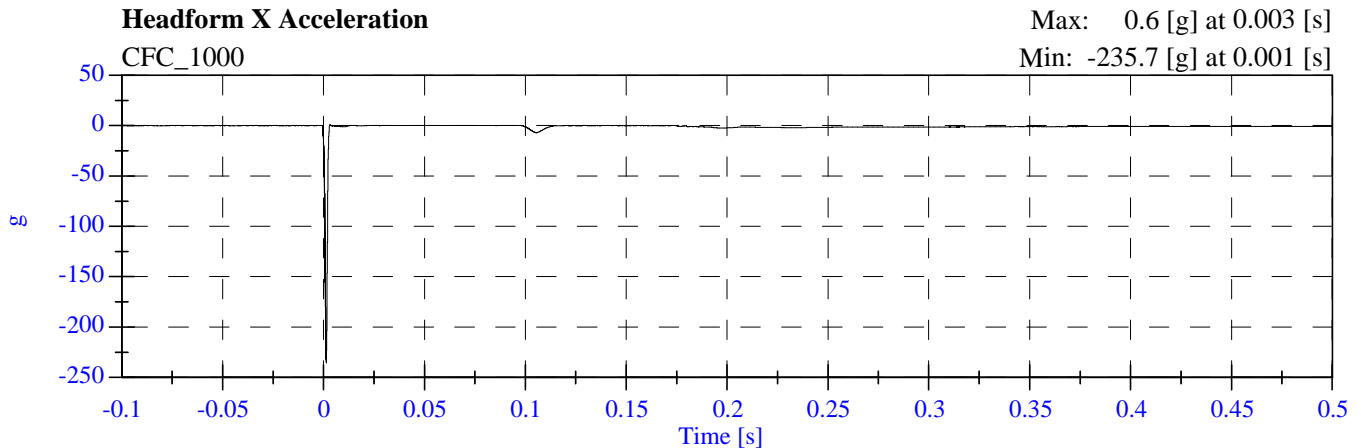
HEAD ACCELEROMETER CALIBRATION INFORMATION

I.D. NUMBER	MANUFACTURER	MODEL NUMBER	SERIAL NUMBER	DATE OF LAST CALIBRATION	DATE OF NEXT CALIBRATION
1 - LONGITUDINAL	ENDEVCO	7264-2000T	J41004	9/2/2008	3/2/2009
2 - LATERAL	ENDEVCO	7264-2000T	J37496	9/2/2008	3/2/2009
3 - VERTICAL	ENDEVCO	7264-2000T	J41016	9/2/2008	3/2/2009

REMARKS:

FMVSS 201U - Headform Calibration Drops

C95206 - February 03, 2009



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

MANUFACTURER:		DENTON ATD INC.	
SERIAL NUMBER:		0355	
CALIBRATION DATE:		February 3, 2009	
TEST PARAMETER	SPECIFICATION	TEST RESULTS	
TEMPERATURE	19°C to 26°C	20	
RELATIVE HUMIDITY	10% to 70%	24	
PEAK RESULTANT ACCELERATION	225 Gs to 275 Gs	252.3	
PEAK LATERAL ACCELERATION	15 Gs Maximum	6.1	
IS ACCELERATION CURVE UNIMODAL?	YES	YES	

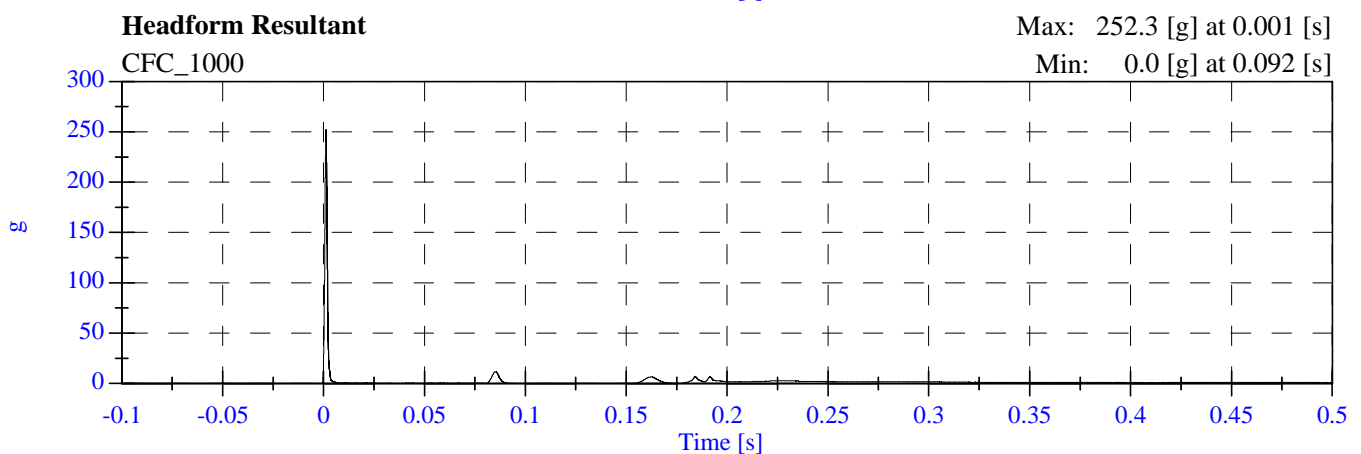
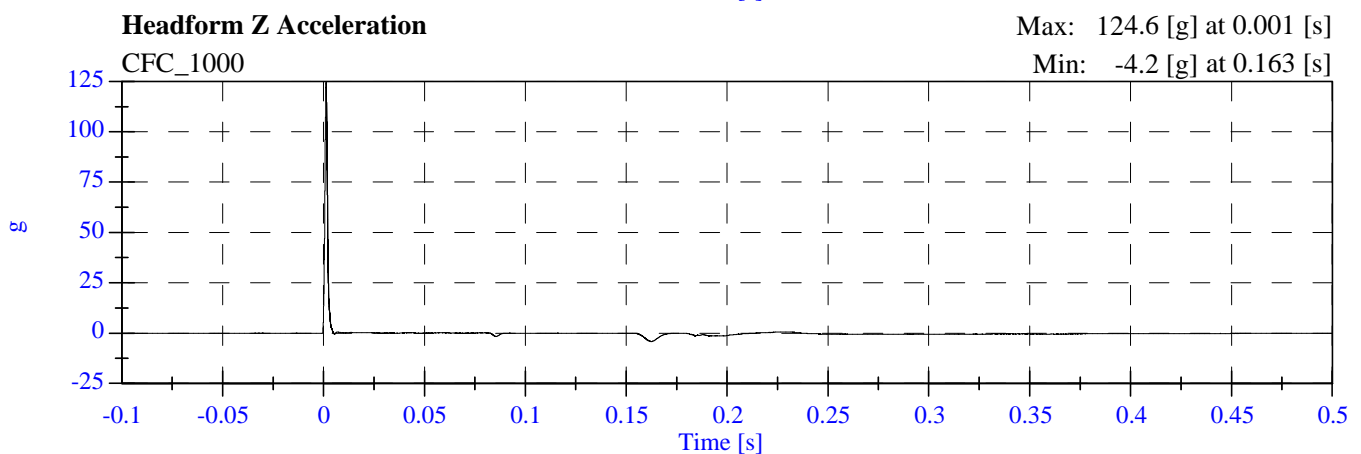
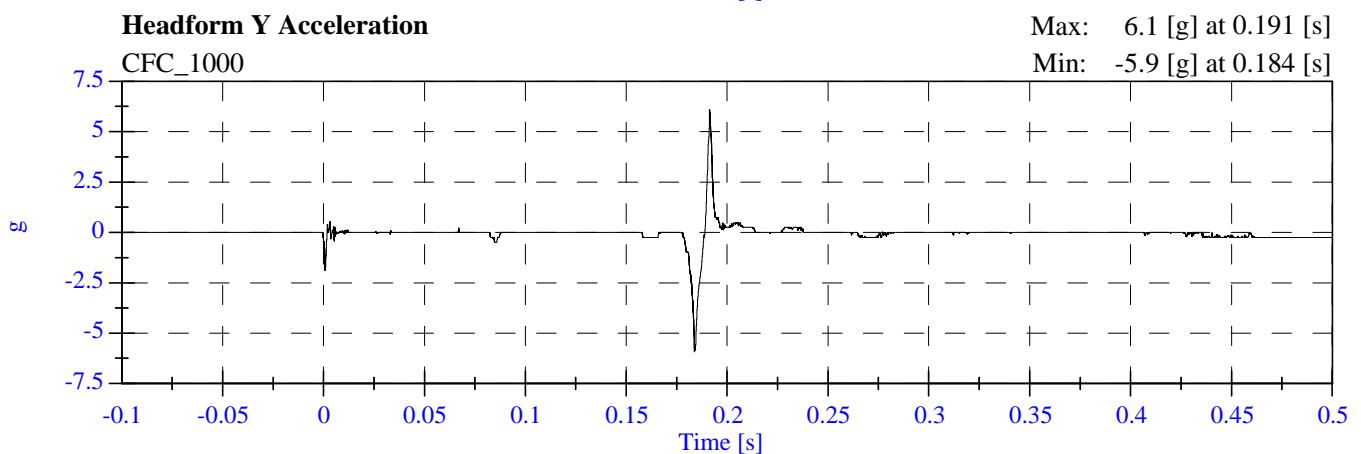
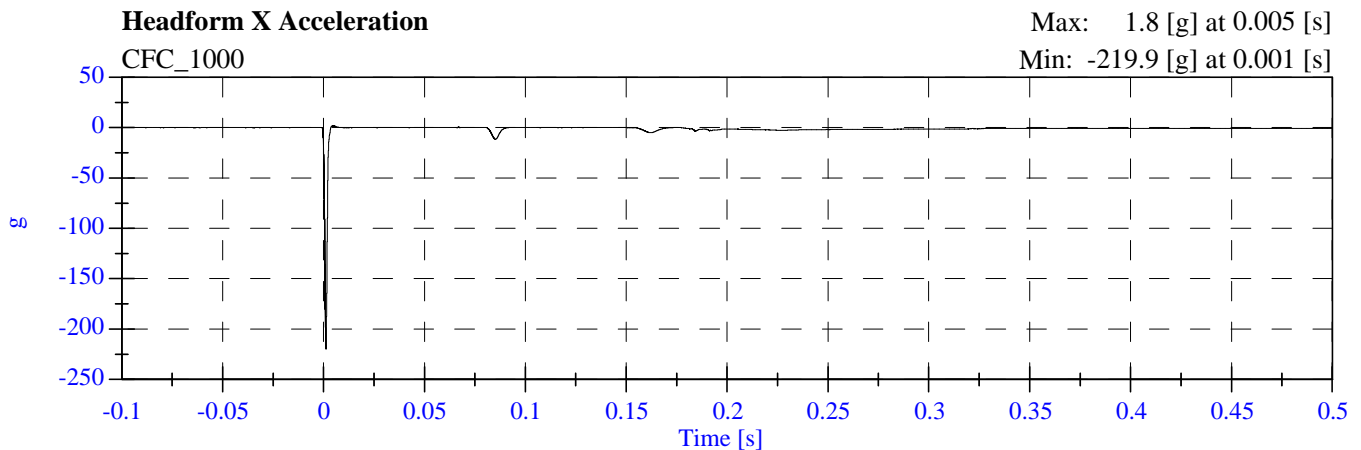
HEAD ACCELEROMETER CALIBRATION INFORMATION

I.D. NUMBER	MANUFACTURER	MODEL NUMBER	SERIAL NUMBER	DATE OF LAST CALIBRATION	DATE OF NEXT CALIBRATION
1 - LONGITUDINAL	ENDEVCO	7264-2000T	J28671	9/2/2008	3/2/2009
2 - LATERAL	ENDEVCO	7264-2000T	J32779	9/2/2008	3/2/2009
3 - VERTICAL	ENDEVCO	7264-2000T	J25854	9/2/2008	3/2/2009

REMARKS:

FMVSS 201U - Headform Calibration Drops

C95206 - February 03, 2009



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

MANUFACTURER:		FIRST TECHNOLOGY SAFETY SYSTEMS	
SERIAL NUMBER:		1142	
CALIBRATION DATE:		February 3, 2009	
TEST PARAMETER	SPECIFICATION	TEST RESULTS	
TEMPERATURE	19°C to 26°C	20	
RELATIVE HUMIDITY	10% to 70%	24	
PEAK RESULTANT ACCELERATION	225 Gs to 275 Gs	258.7	
PEAK LATERAL ACCELERATION	15 Gs Maximum	2.9	
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	J41006	9/2/2008	3/2/2009
2 - LATERAL	ENDEVCO	7264-2000T	J40994	9/2/2008	3/2/2009
3 - VERTICAL	ENDEVCO	7264-2000T	J41007	9/2/2008	3/2/2009

REMARKS:

FMVSS 201U - Headform Calibration Drops

C95206 - February 03, 2009

