



DEPARTMENT OF
NEUROSURGERY

2008 NHTSA Side NCAP Test Summary
2008/Ford Mustang/2 door Coupe/M80206
22 August 2008

	Driver (P1)		Passenger (P4)	
	Max (G's)	Time (ms)	Max (G's)	Time (ms)
Upper Rib	35.2	43.8	70.6	53.8
Lower Rib	39.7	46.3	59.0	54.4
Spine	43.5	40.6	72.6	56.3
Pelvis	42.6	33.8	47.2	49.4
TTI	42		72	

	HIC Values		
	Value	T1	T2
Driver (P1)	67.5	42.0	77.9
Passenger (P4)	546.3	53.8	62.1

Nine Axis Head	Driver (P1)	No
	Passenger (P4)	No

	Test Details			
	English Units		Metric Units	
	Units	Value	Units	Value
MDB Test Speed	MPH	38.5	KMH	62.0
MDB Test Weight	lb	2992	kg	1360
Vehicle Delivered Weight	lb	3335	kg	1516
Vehicle Test Weight	lb	3794	kg	1725
Vehicle Width	1965	Vehicle Length		4764
Vehicle Wheelbase	2720			

Test Vehicle Doors	
Disable ADL's Using Owner's Manual	No
Doors Locked (Pre-Test)	Unlocked
Doors Latched (Post-Test)	Latched

Standards Measured Post Test	
301 – Fuel System Integrity	Pass

	Airbag Deployment			
	Driver (P1)		Passenger (P4)	
	Deployment	Mount Type	Deployment	Mount Type
Head Bag	N/a	None	N/a	None
Torso Bag	N/a	None	N/a	None
Comb Bag	Yes	Seatback	N/a	None
Frontal Bag	No	Steering Whl	N/a	None

	Vehicle Safety Features	
	Driver (P1)	Passenger (P4)
Pretensioner	No	No
Load Limiter	Yes	No
Adj. Anchors	No	No
ABS	No	No
ADLs	Yes	Yes

Other Notable Test Effects and Safety Concerns

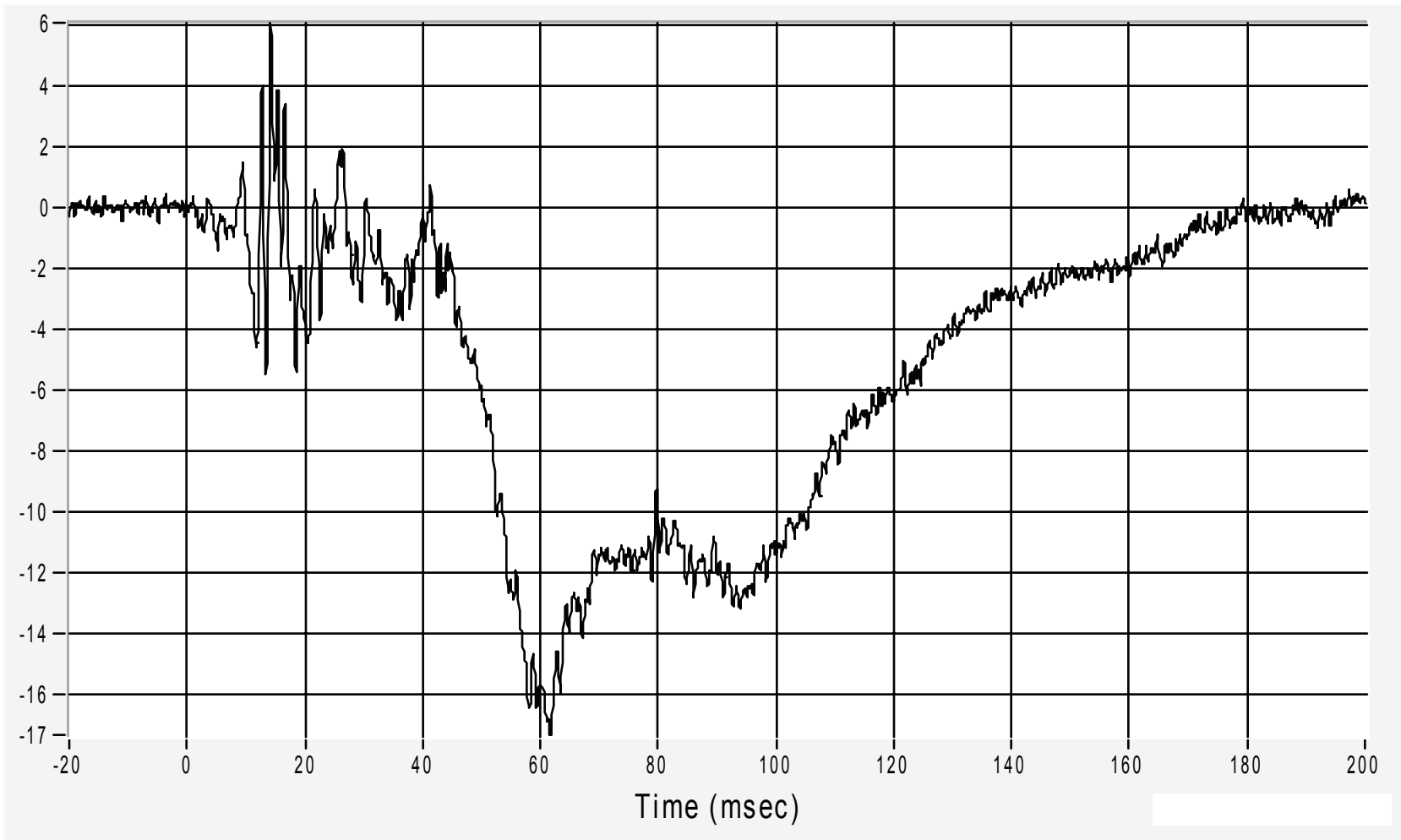
None

Driver Head CG (X) Acceleration

Acceleration (G's) CFC1000

Max 6.1 G at 14.2 msec

Min -17.3 G at 61.8 msec



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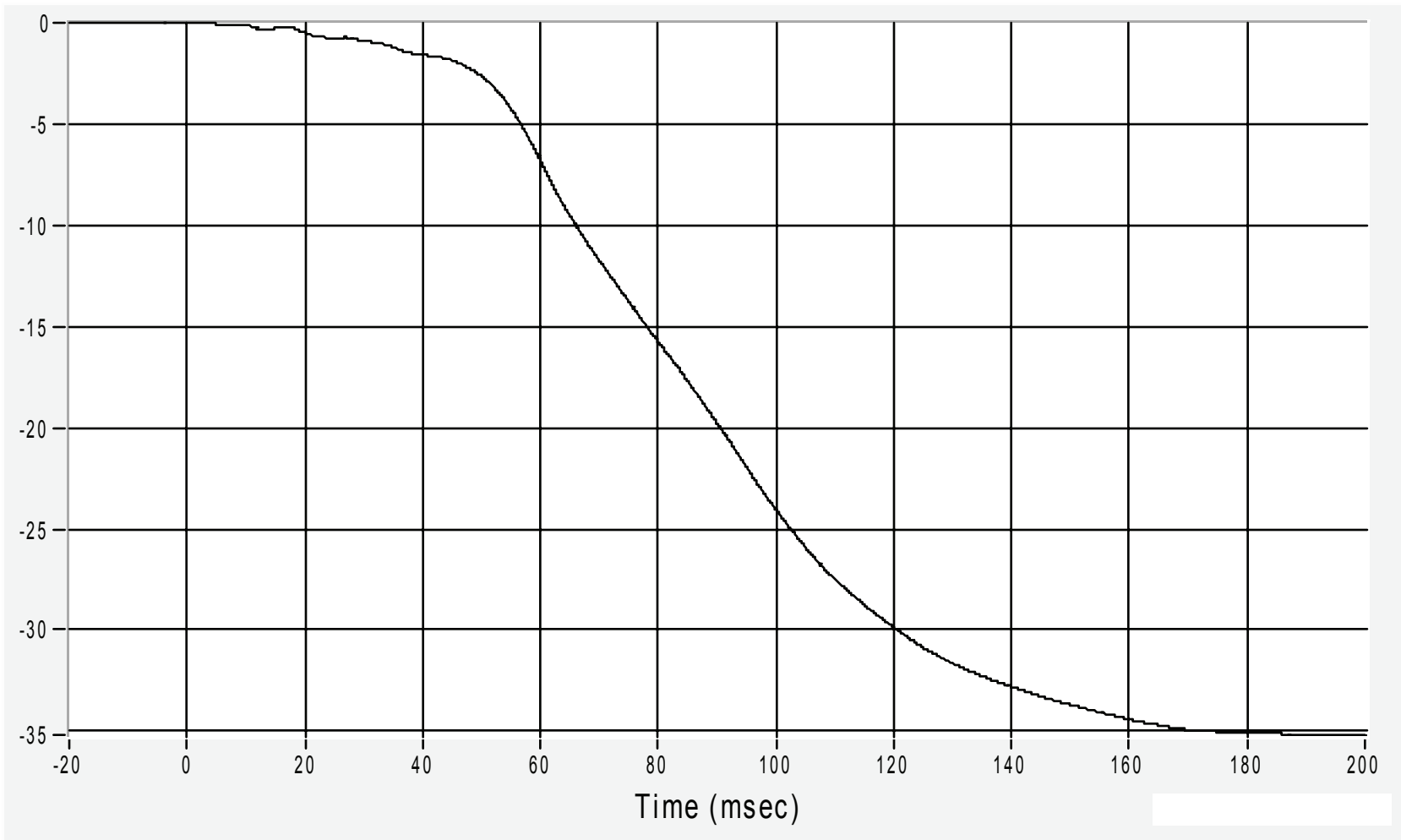
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Driver Head CG (X) Velocity

Velocity (km/h) CFC180

Max 0.0 km/h at 1.0 msec

Min -35.2 km/h at 194.6 msec



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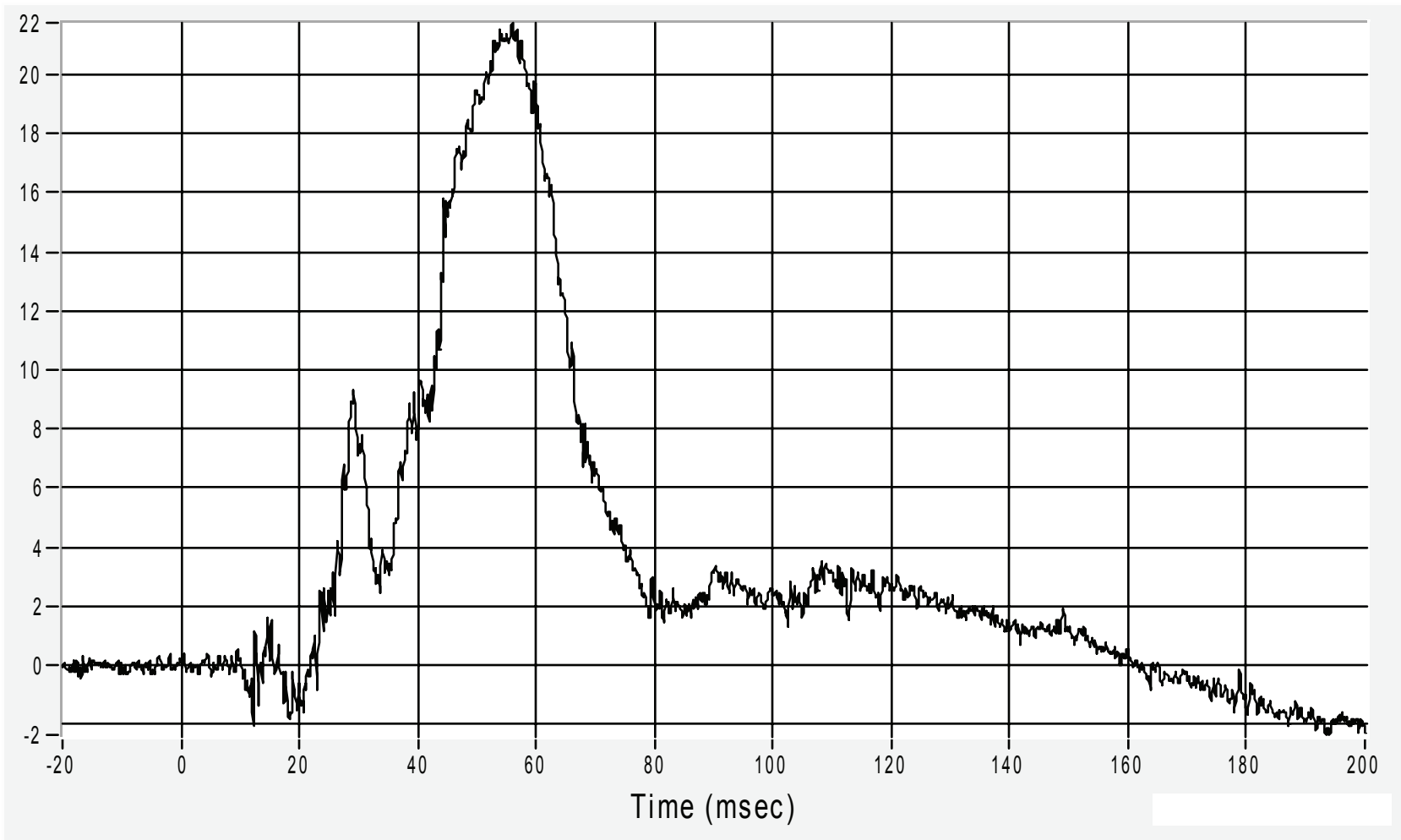
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Driver Head CG (Y) Acceleration

Acceleration (G's) CFC1000

Max 21.8 G at 56.0 msec

Min -2.4 G at 194.0 msec



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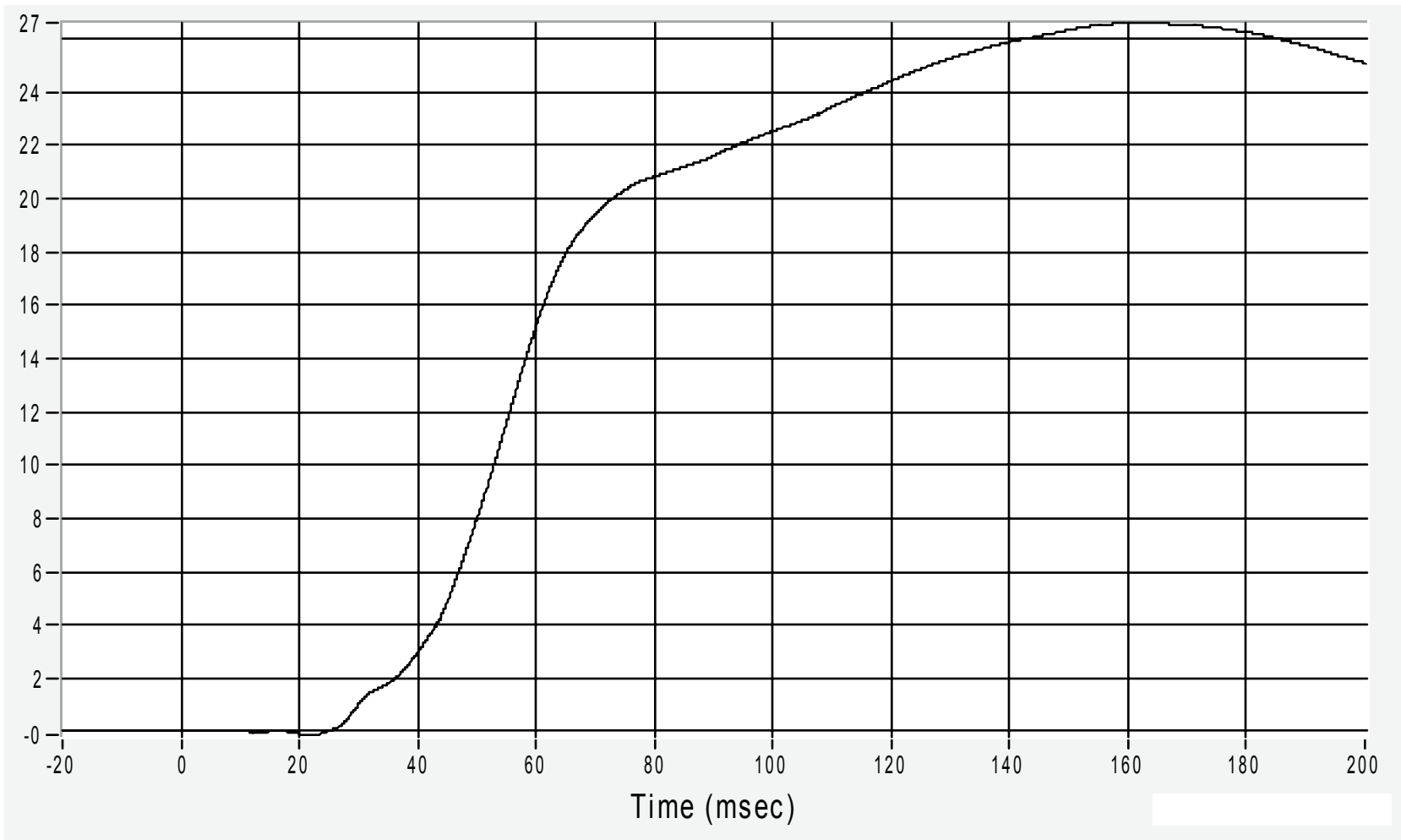
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Driver Head CG (Y) Velocity

Velocity (km/h) CFC180

Max 26.6 km/h at 161.9 msec

Min -0.1 km/h at 21.8 msec



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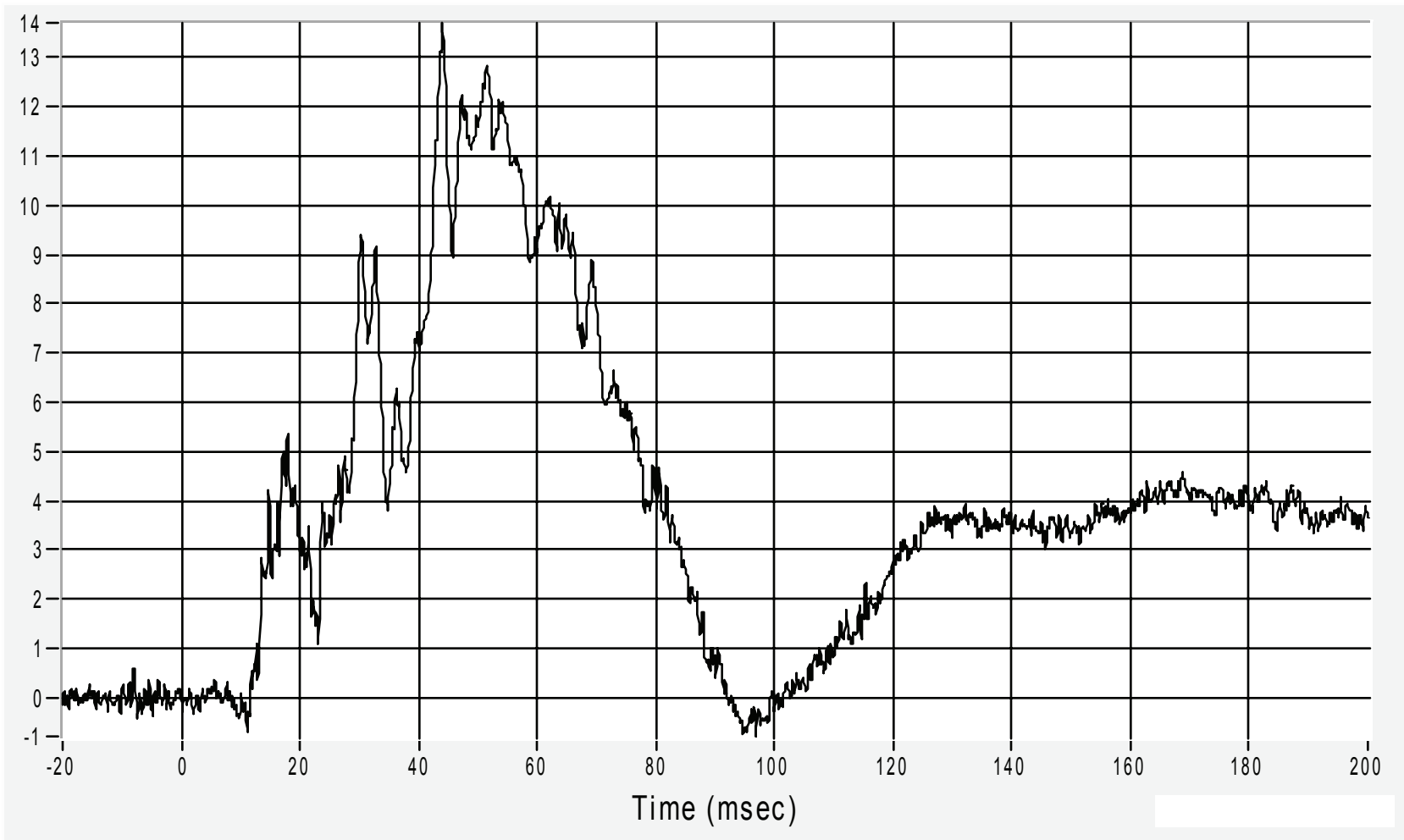
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Driver Head CG (Z) Acceleration

Acceleration (G's) CFC1000

Max 13.7 G at 44.0 msec

Min -0.8 G at 96.9 msec



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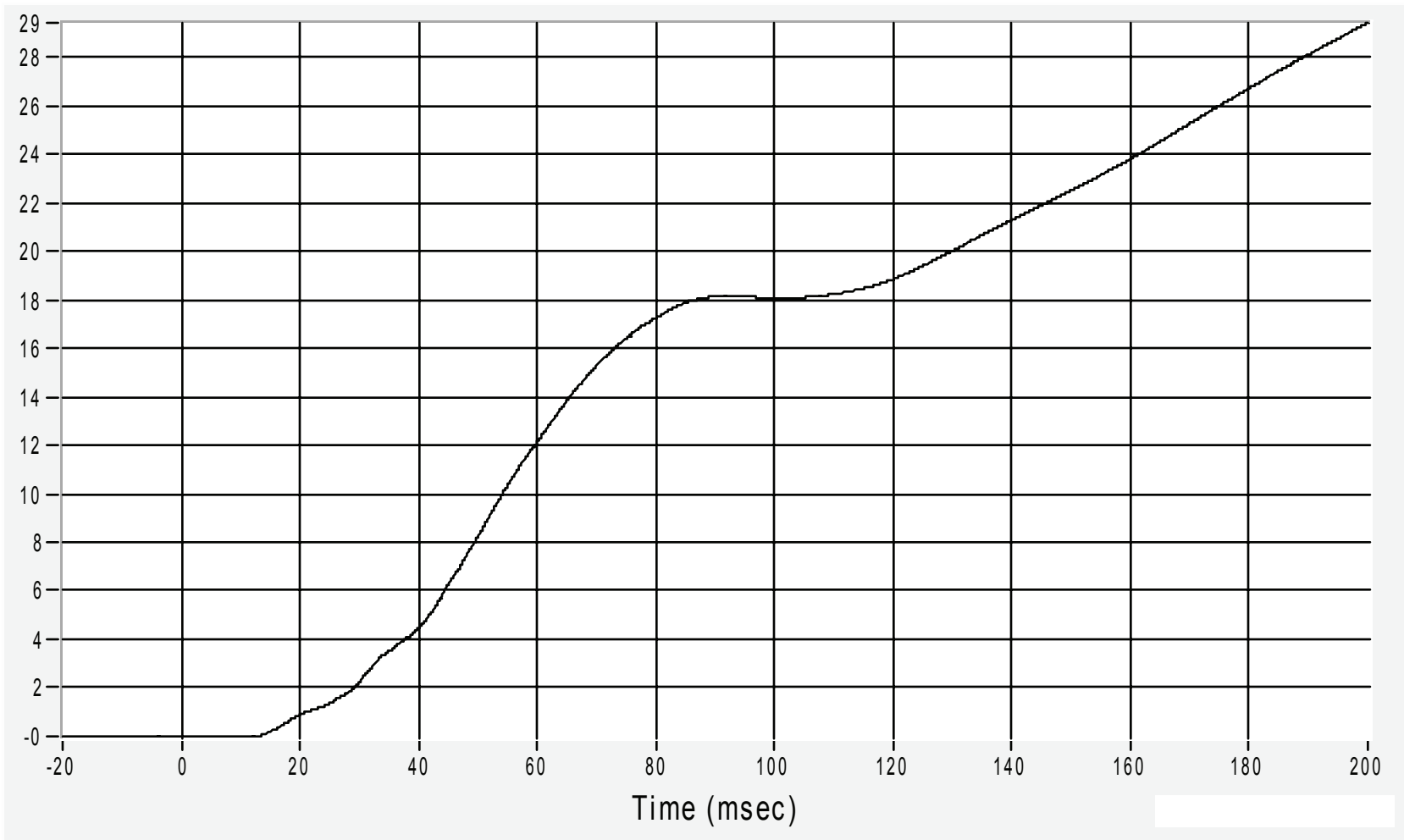
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Driver Head CG (Z) Velocity

Velocity (km/h) CFC180

Max 29.4 km/h at 199.9 msec

Min 0.0 km/h at 11.6 msec



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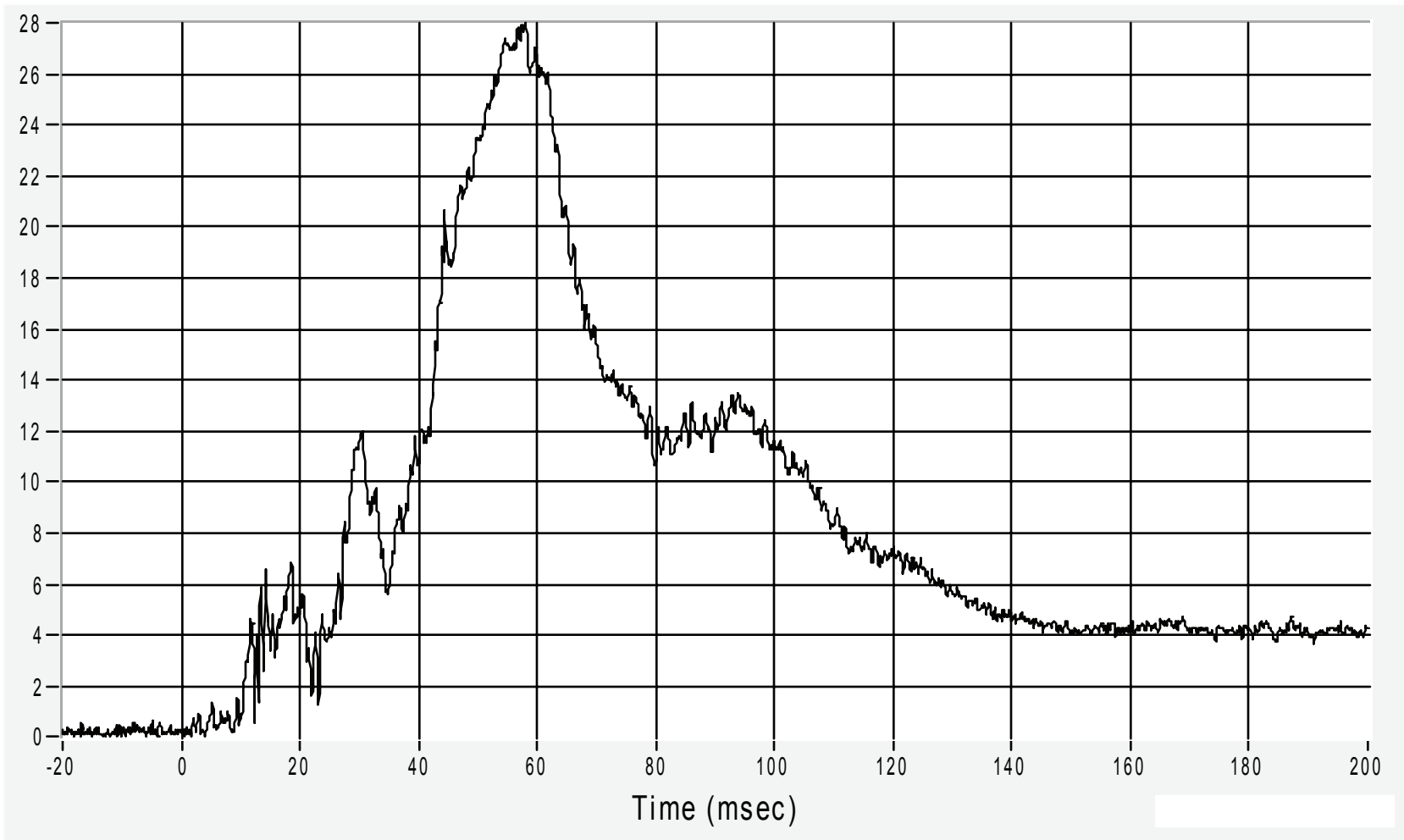
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Driver Head Resultant Acceleration

Acceleration (G's) CFC1000

Max 28.0 G's at 58.0 msec

Min 0.1 G's at 1.7 msec



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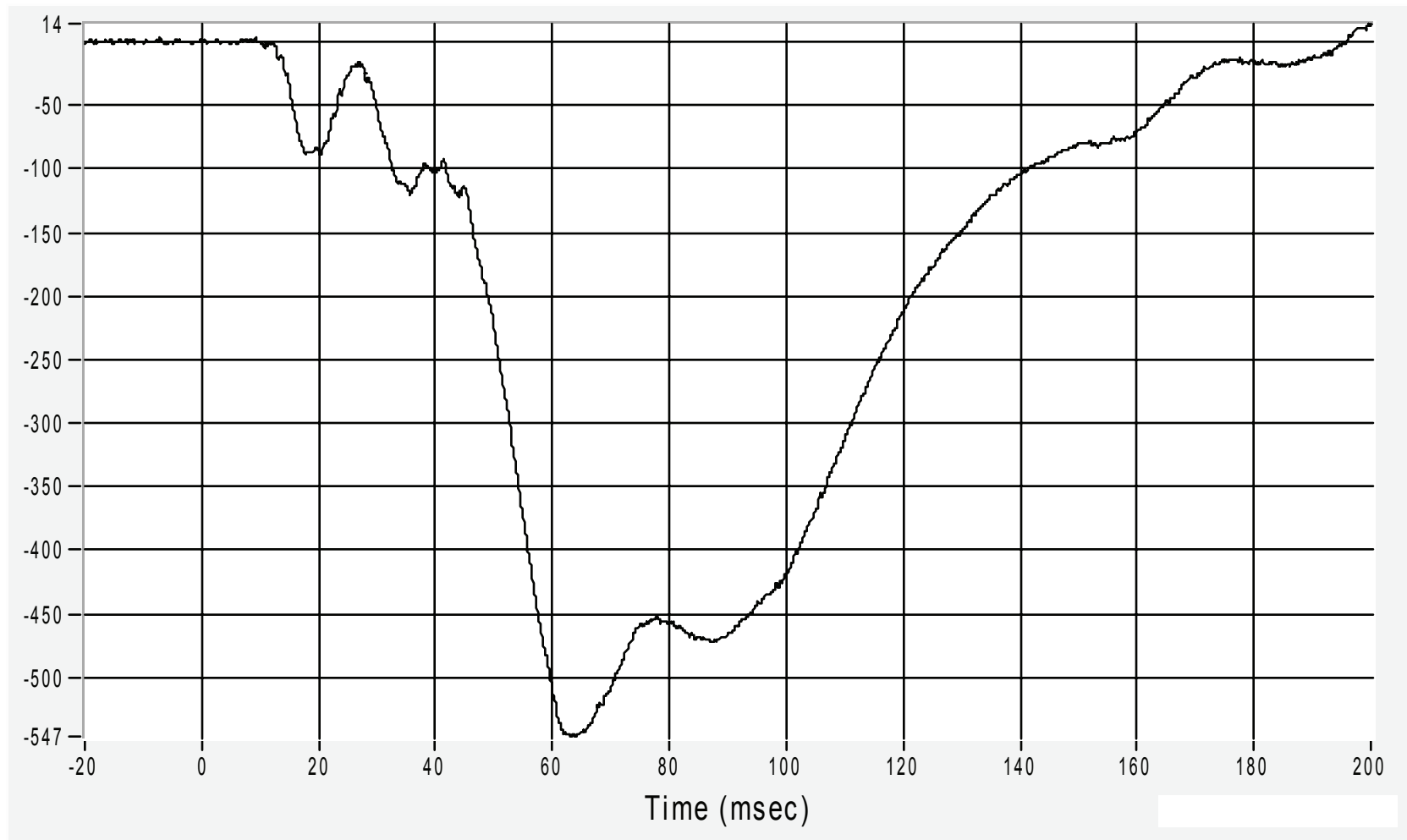
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Driver Upper Neck (X) Force

Force (N) CFC1000

Max 14.3 N at 199.5 msec

Min -546.7 N at 63.2 msec



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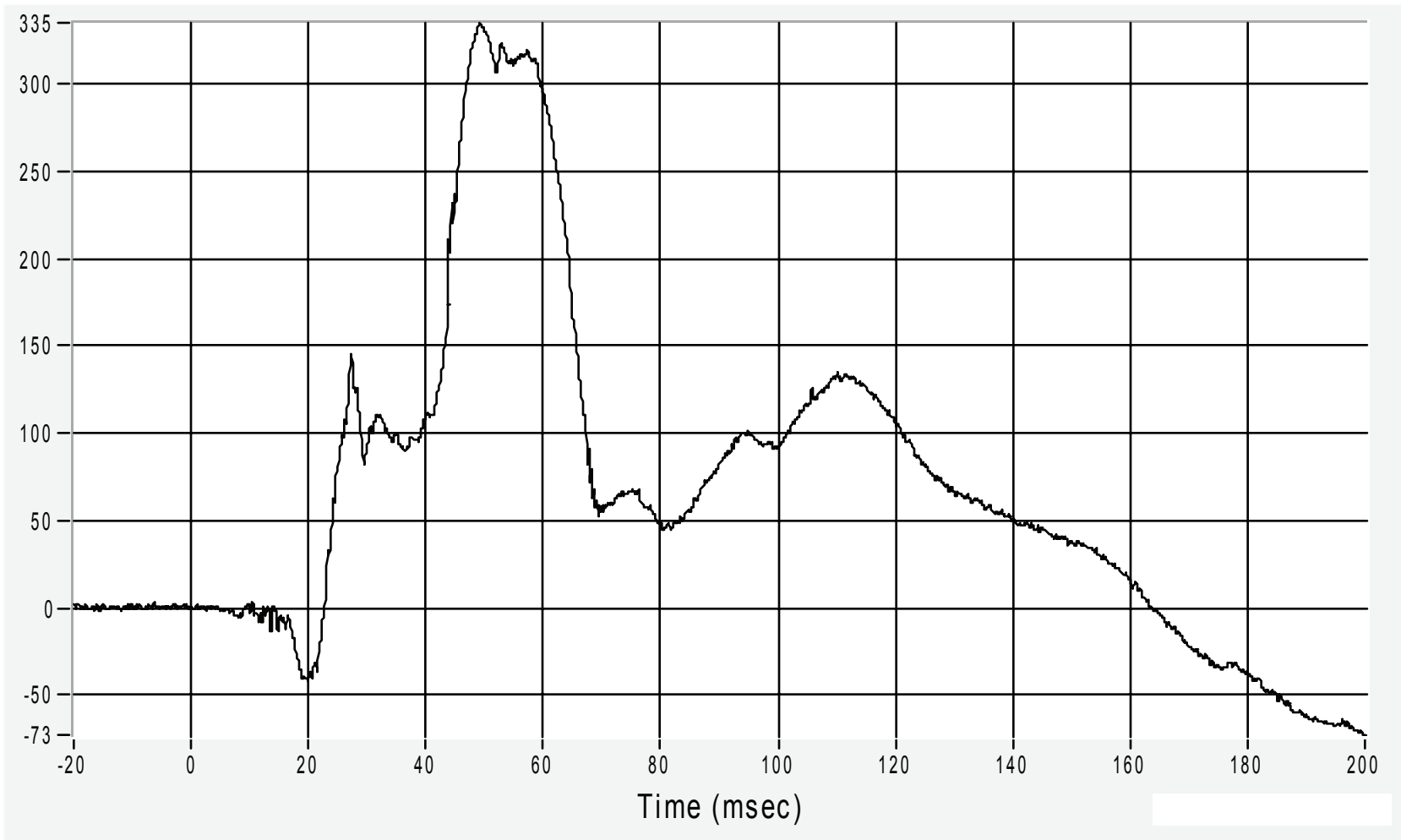
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Driver Upper Neck (Y) Force

Force (N) CFC1000

Max 335.1 N at 49.1 msec

Min -72.8 N at 199.9 msec



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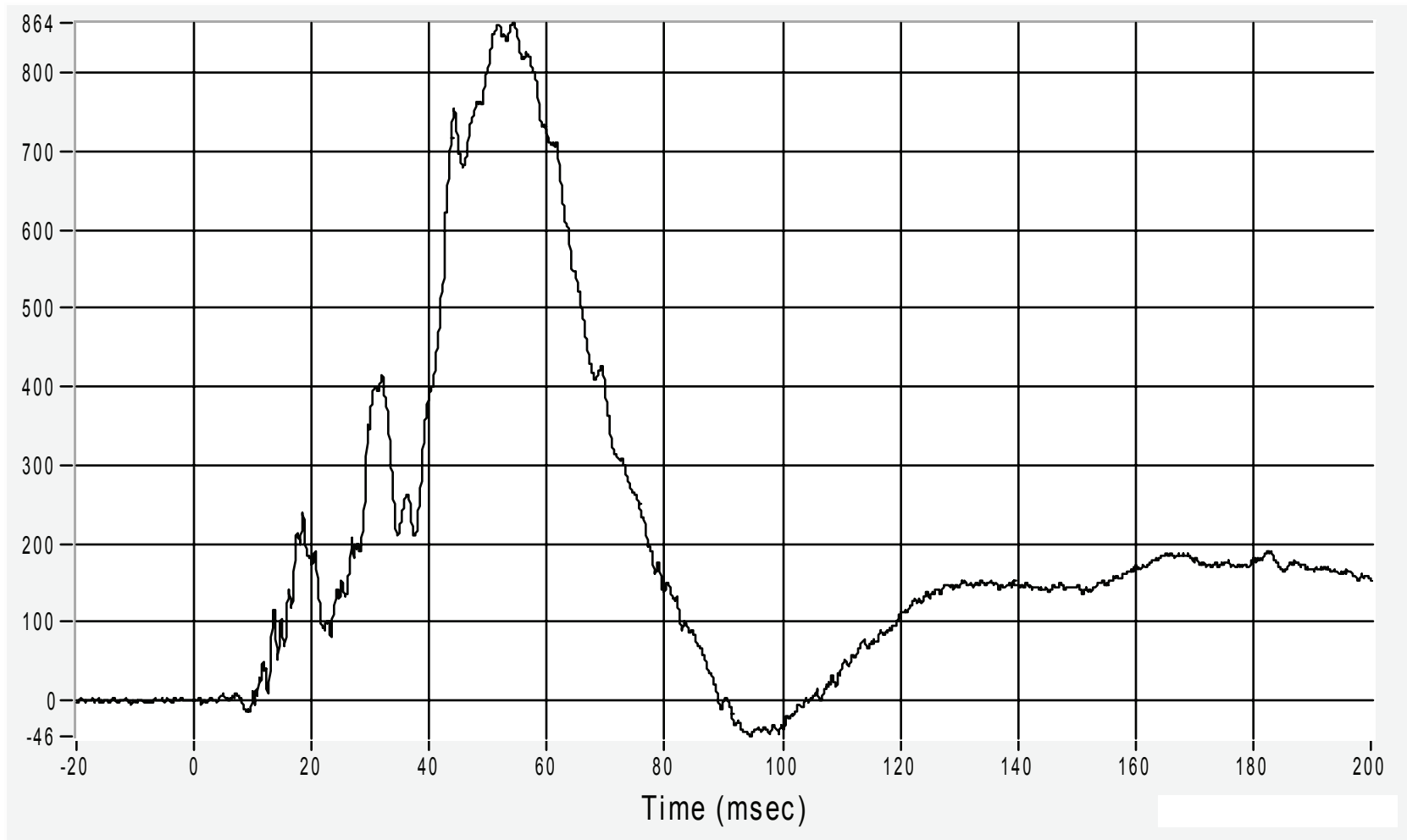
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Driver Upper Neck (Z) Force

Force (N) CFC1000

Max 864.2 N at 54.3 msec

Min -45.8 N at 94.6 msec



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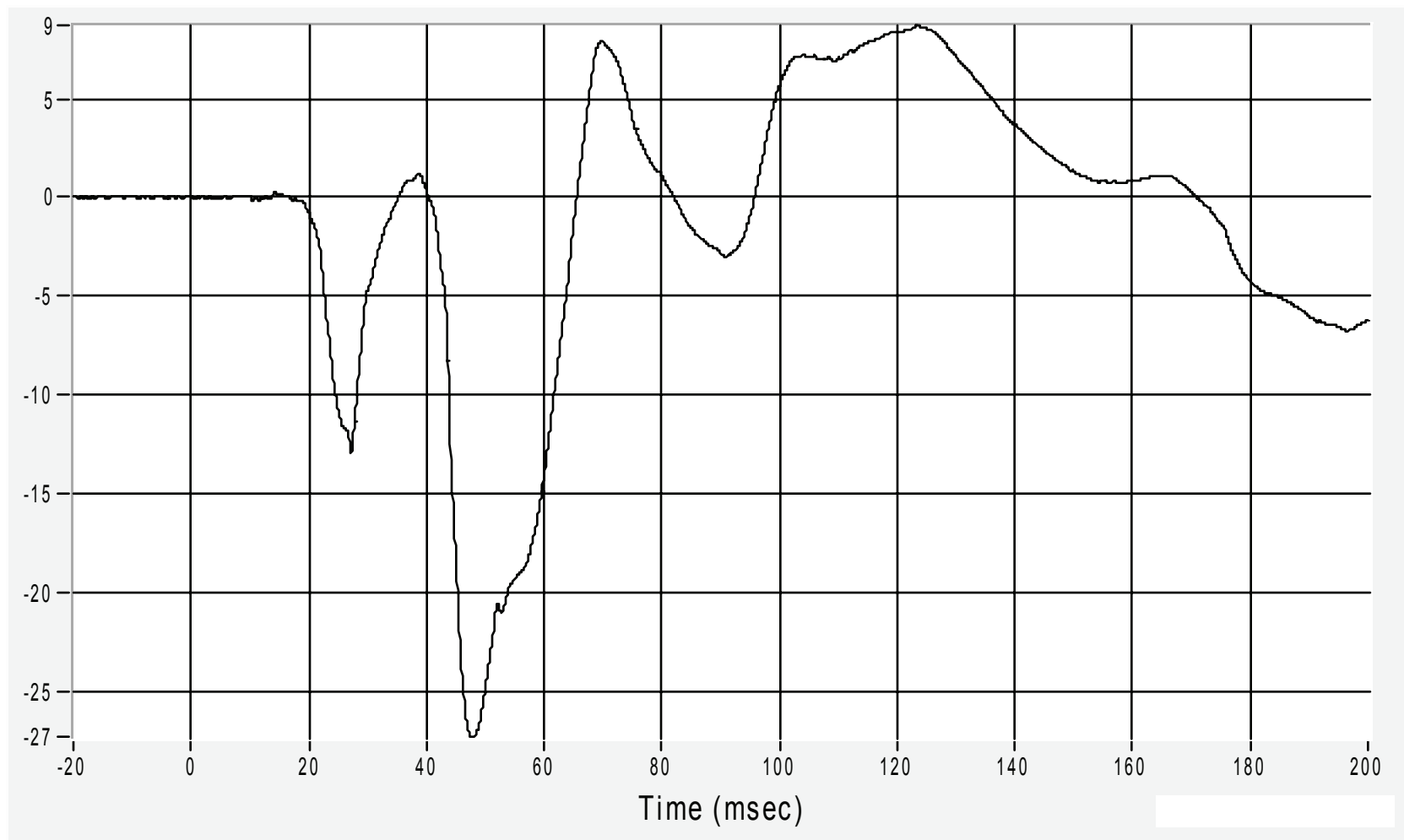
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Driver Upper Neck (X) Moment

Moment (Nm) CFC600

Max 8.7 Nm at 123.6 msec

Min -27.3 Nm at 48.1 msec



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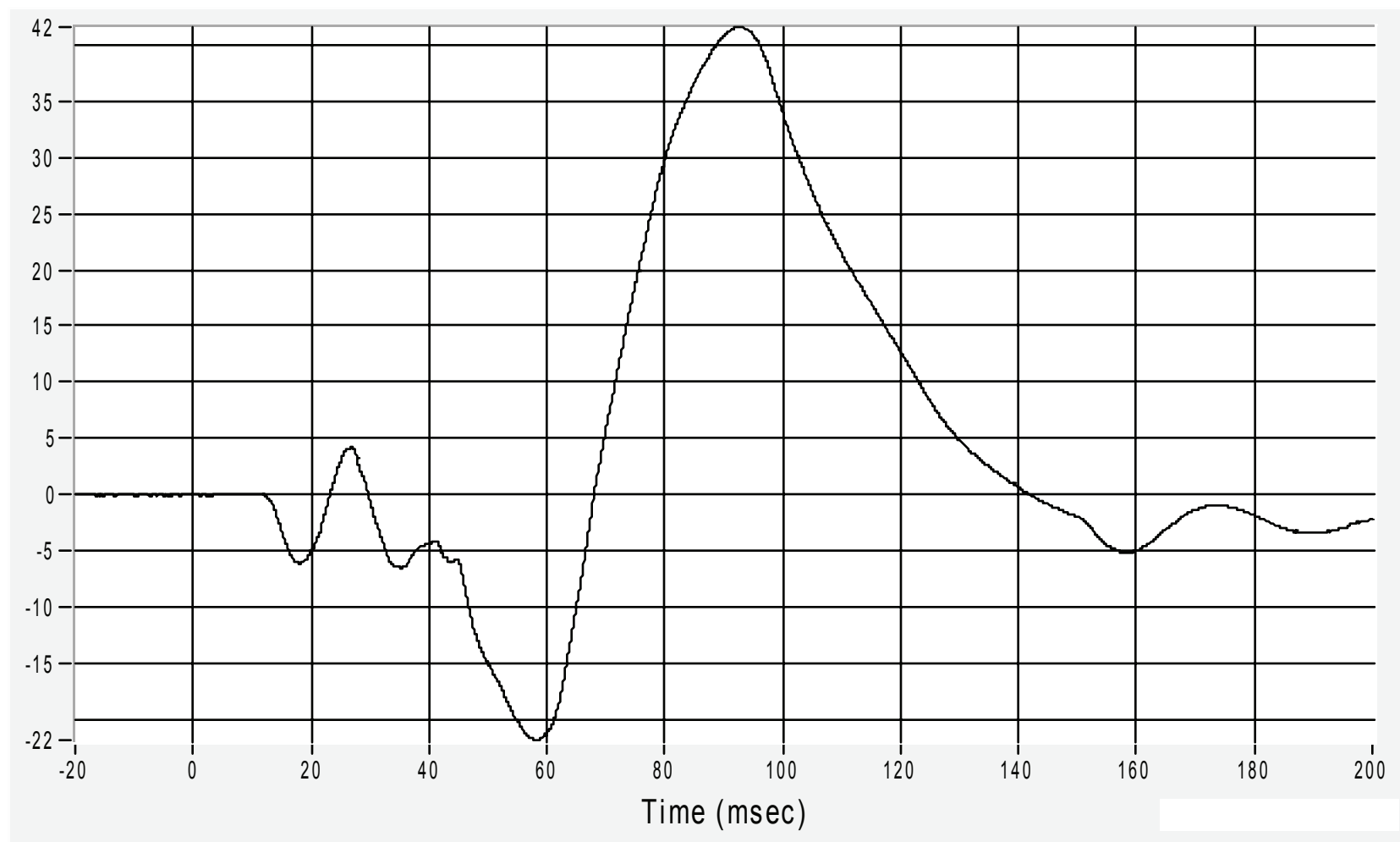
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Driver Upper Neck (Y) Moment

Moment (Nm) CFC600

Max 41.5 Nm at 93.0 msec

Min -21.7 Nm at 58.2 msec



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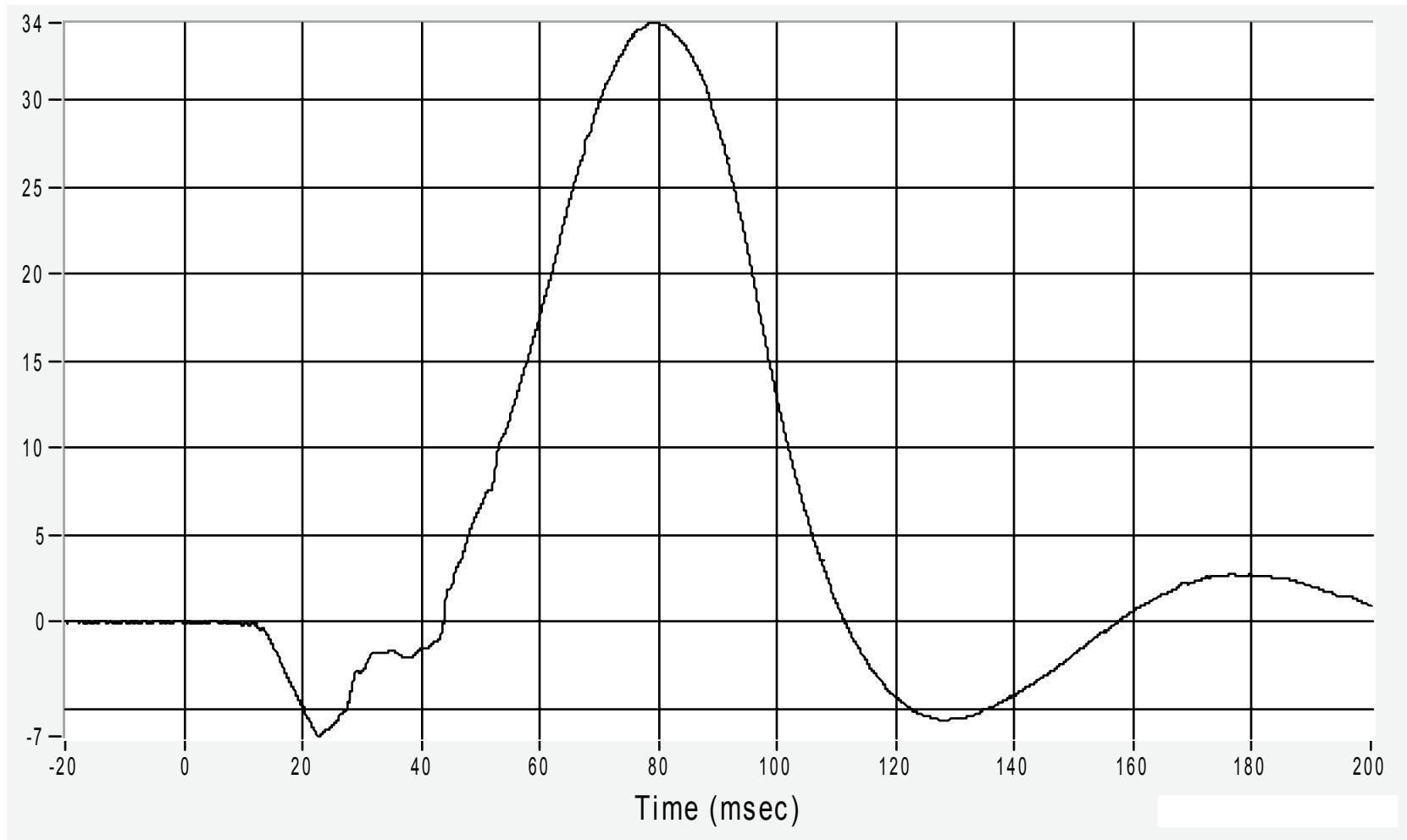
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Driver Upper Neck (Z) Moment

Moment (Nm) CFC600

Max 34.4 Nm at 79.5 msec

Min -6.6 Nm at 22.7 msec



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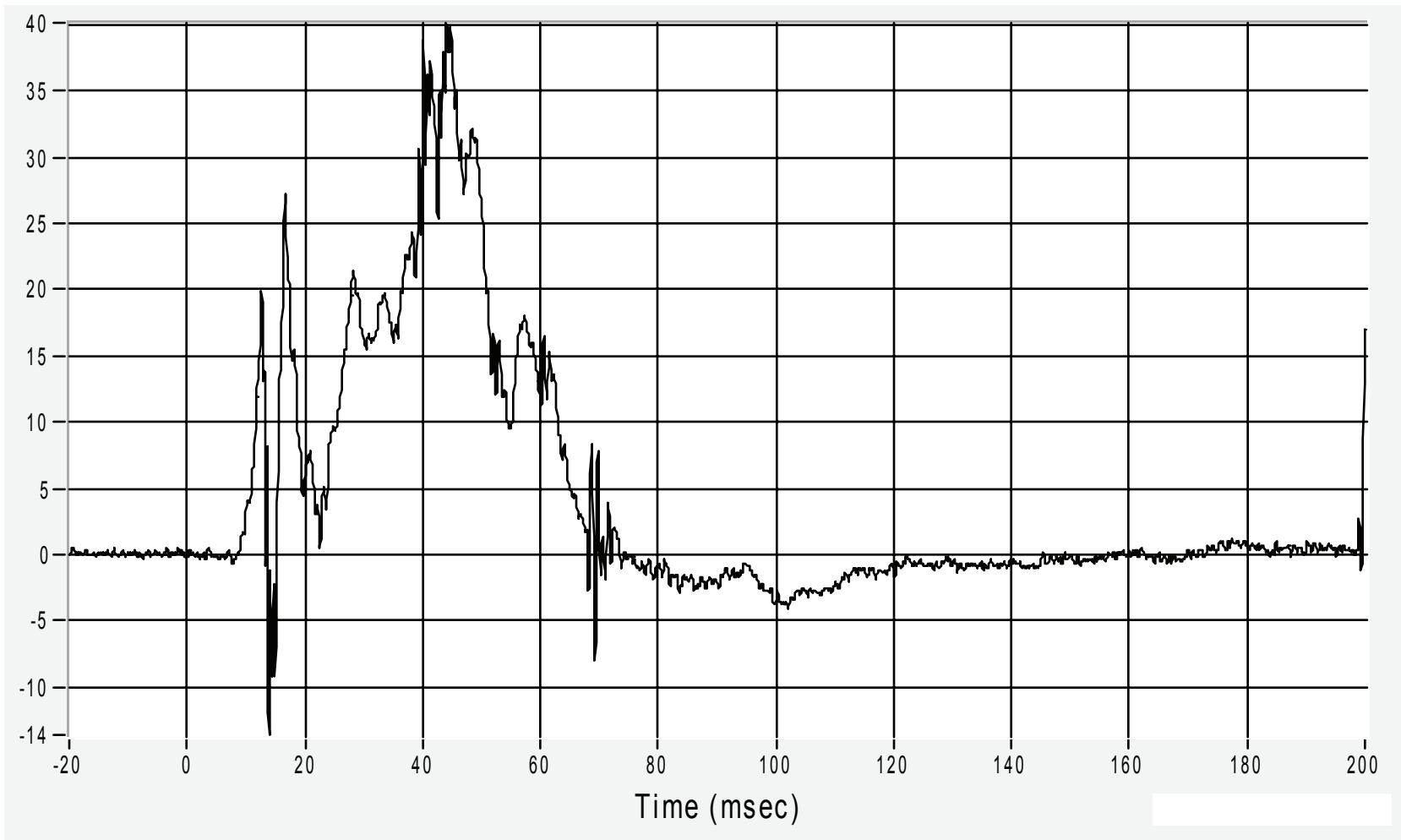
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Driver Upper Rib (Y) Acceleration

Acceleration (G's) CFC1000

Max 40.2 G at 44.1 msec

Min -13.6 G at 13.9 msec



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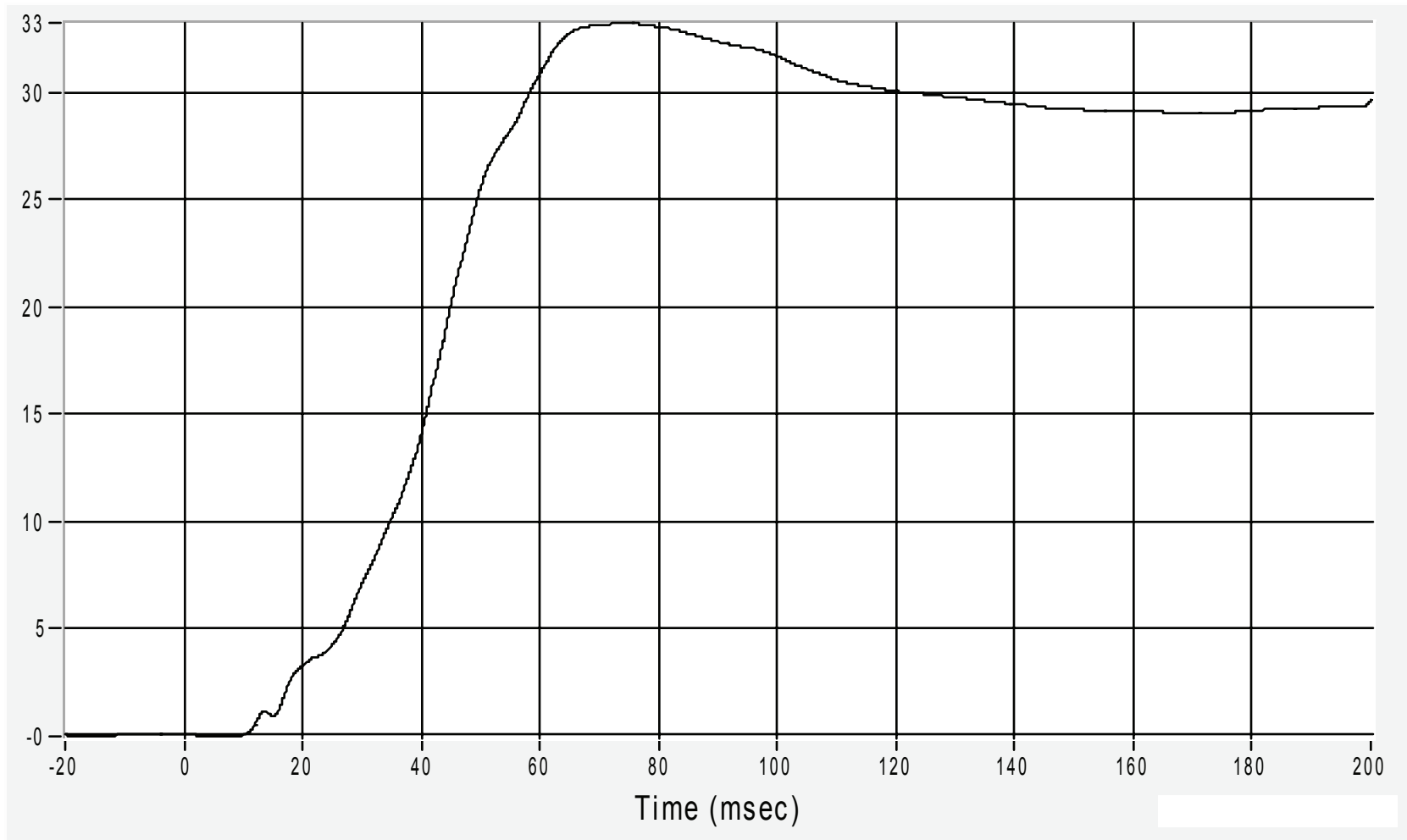
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Driver Upper Rib (Y) Velocity

Velocity (km/h) CFC180

Max 33.2 km/h at 73.6 msec

Min 0.0 km/h at 8.6 msec



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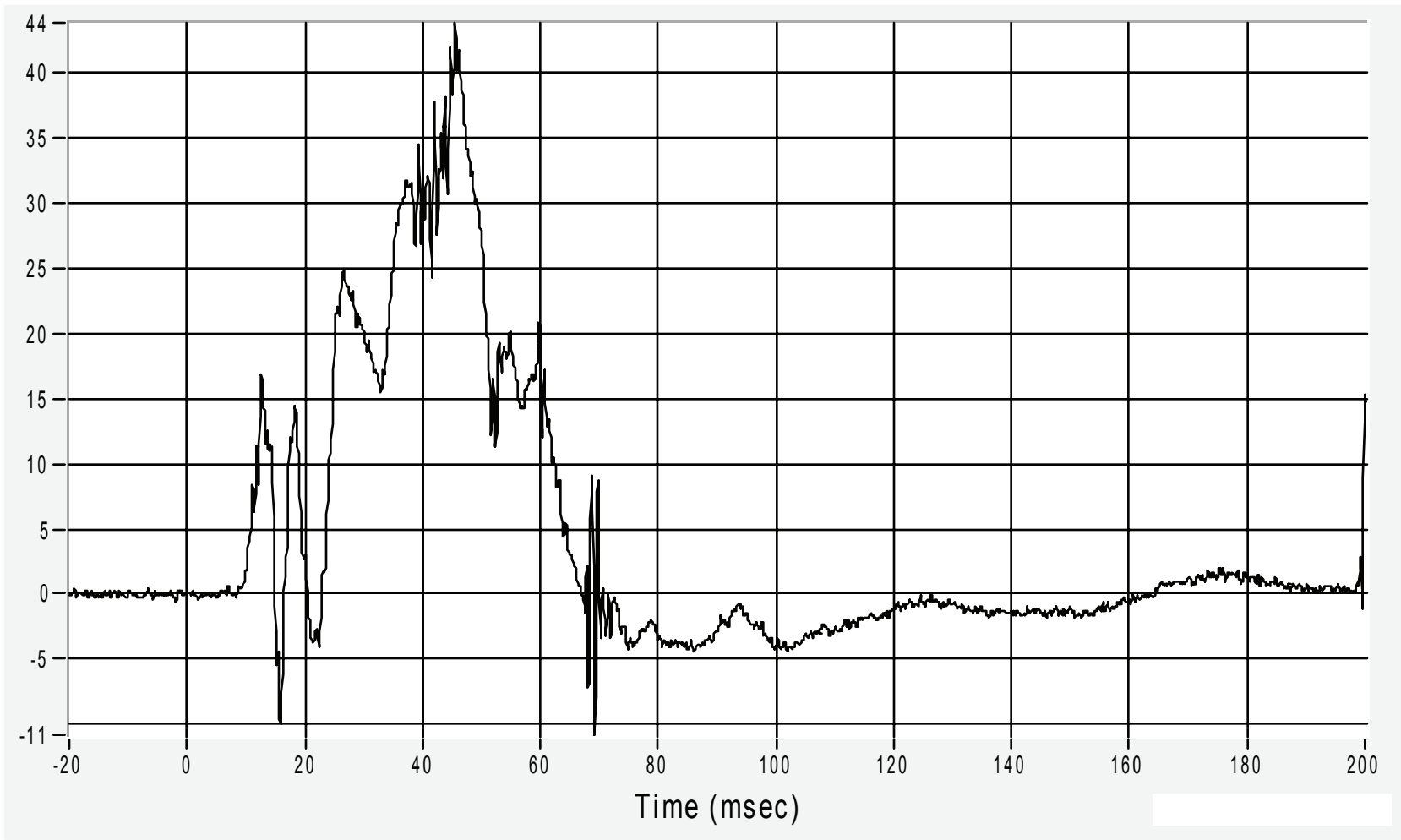
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Driver Lower Rib (Y) Acceleration

Acceleration (G's) CFC1000

Max 43.9 G at 45.5 msec

Min -10.8 G at 69.2 msec



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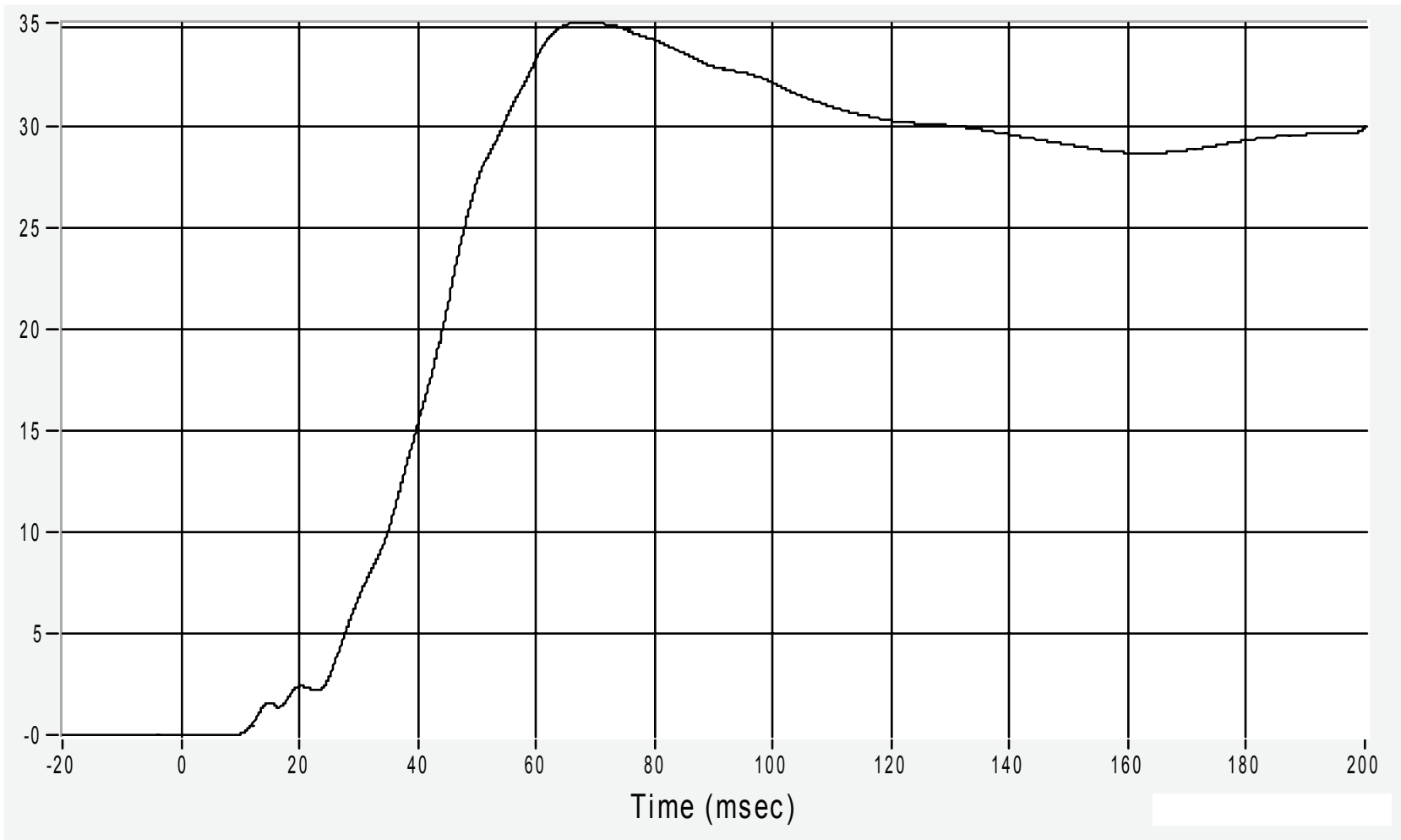
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Driver Lower Rib (Y) Velocity

Velocity (km/h) CFC180

Max 35.2 km/h at 66.9 msec

Min 0.0 km/h at 5.4 msec



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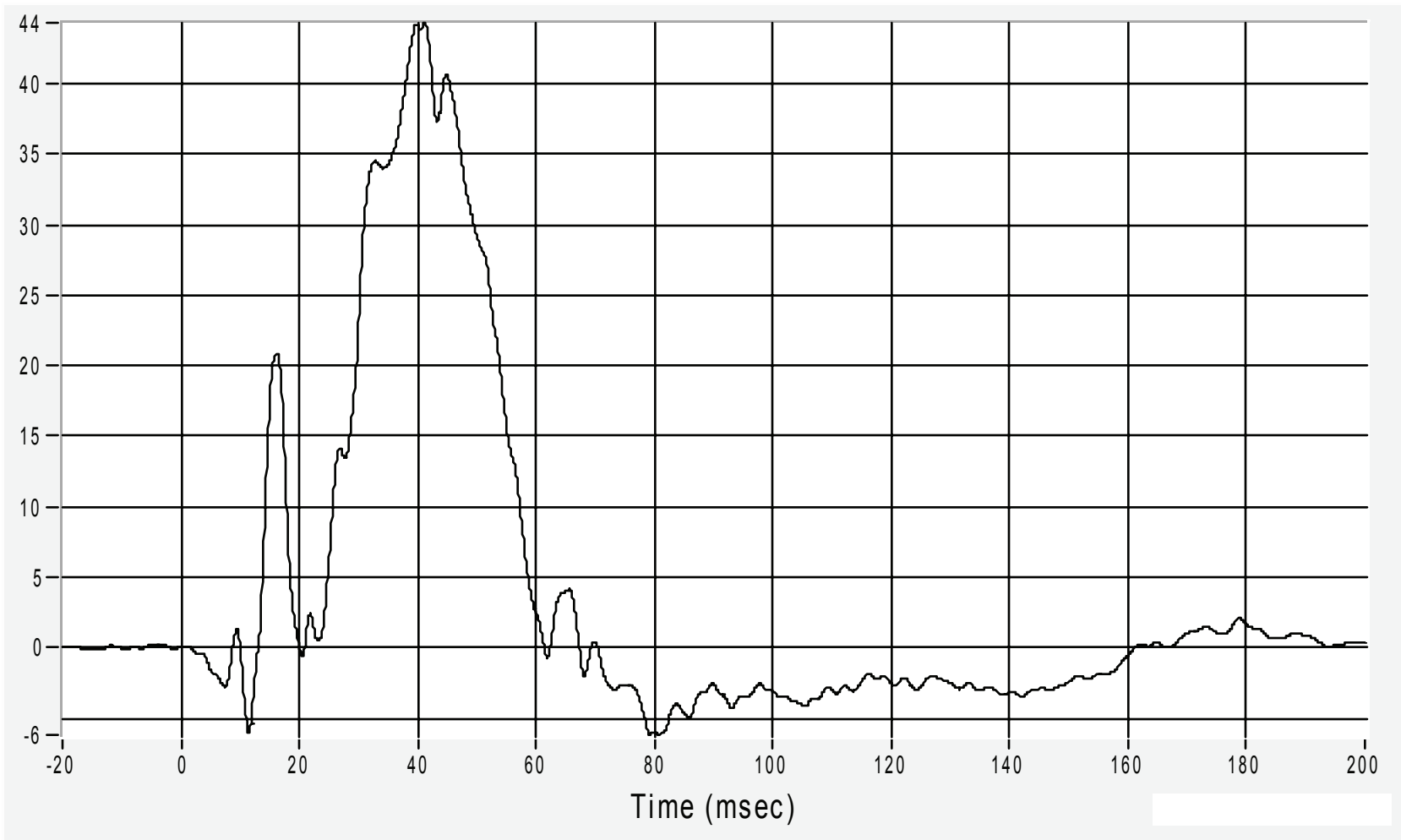
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Driver Lower Spine (Y) Acceleration

Acceleration (G's) CFC180

Max 44.3 G at 41.2 msec

Min -6.2 G at 80.7 msec



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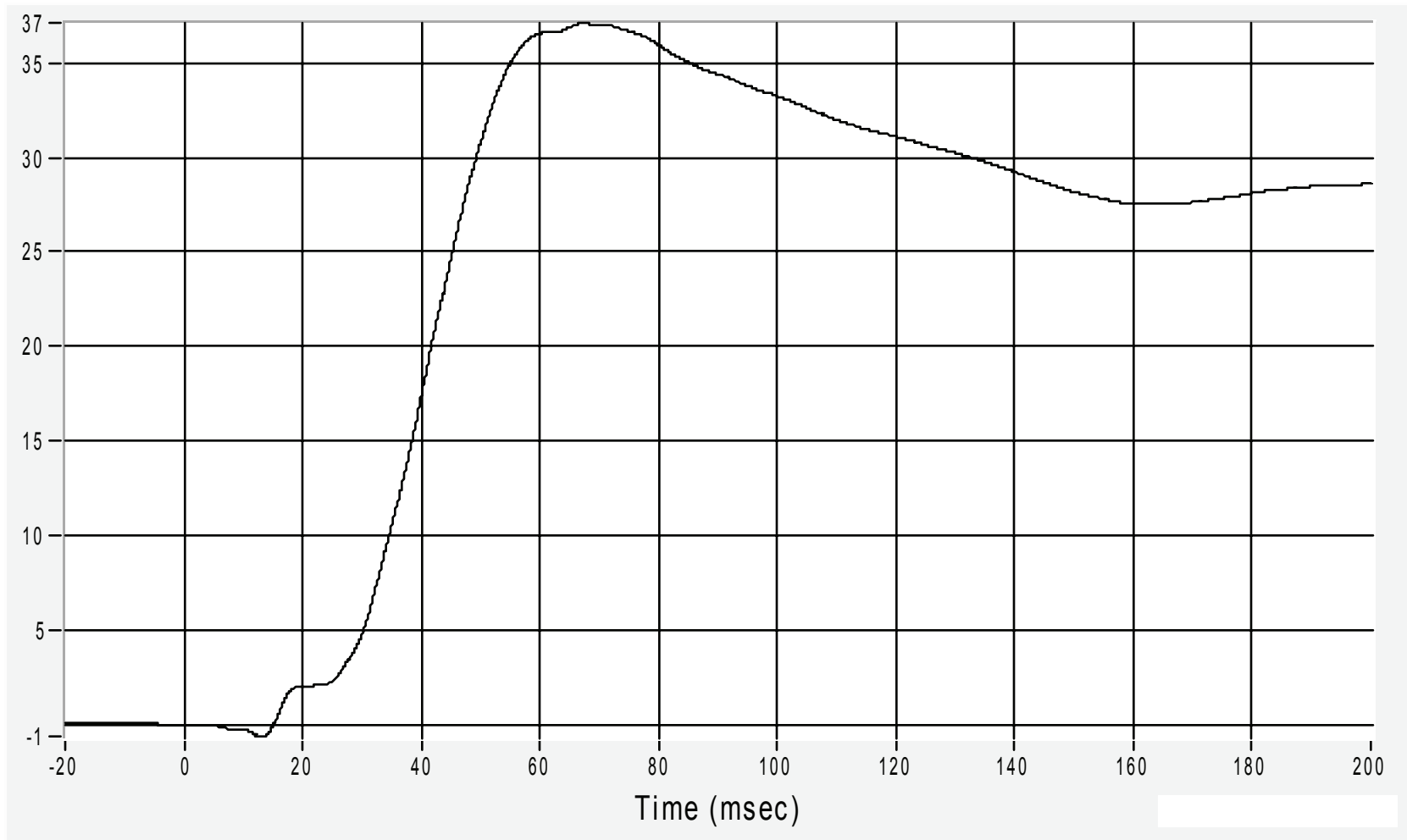
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Driver Lower Spine (Y) Velocity

Velocity (km/h) CFC180

Max 37.1 km/h at 67.3 msec

Min -0.6 km/h at 13.0 msec



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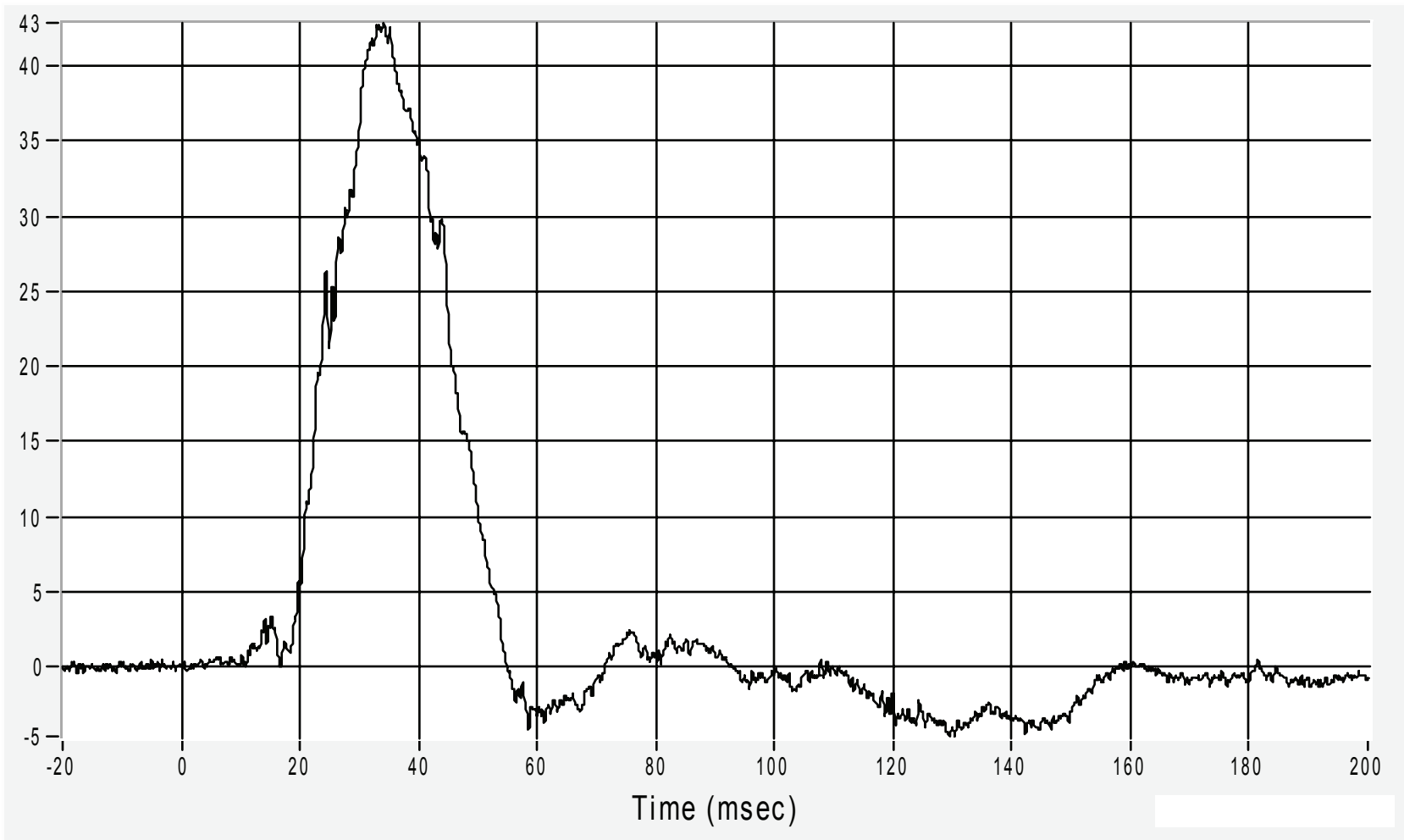
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Driver Pelvic (Y) Acceleration

Acceleration (G's) CFC1000

Max 42.9 G at 34.1 msec

Min -4.6 G at 129.5 msec



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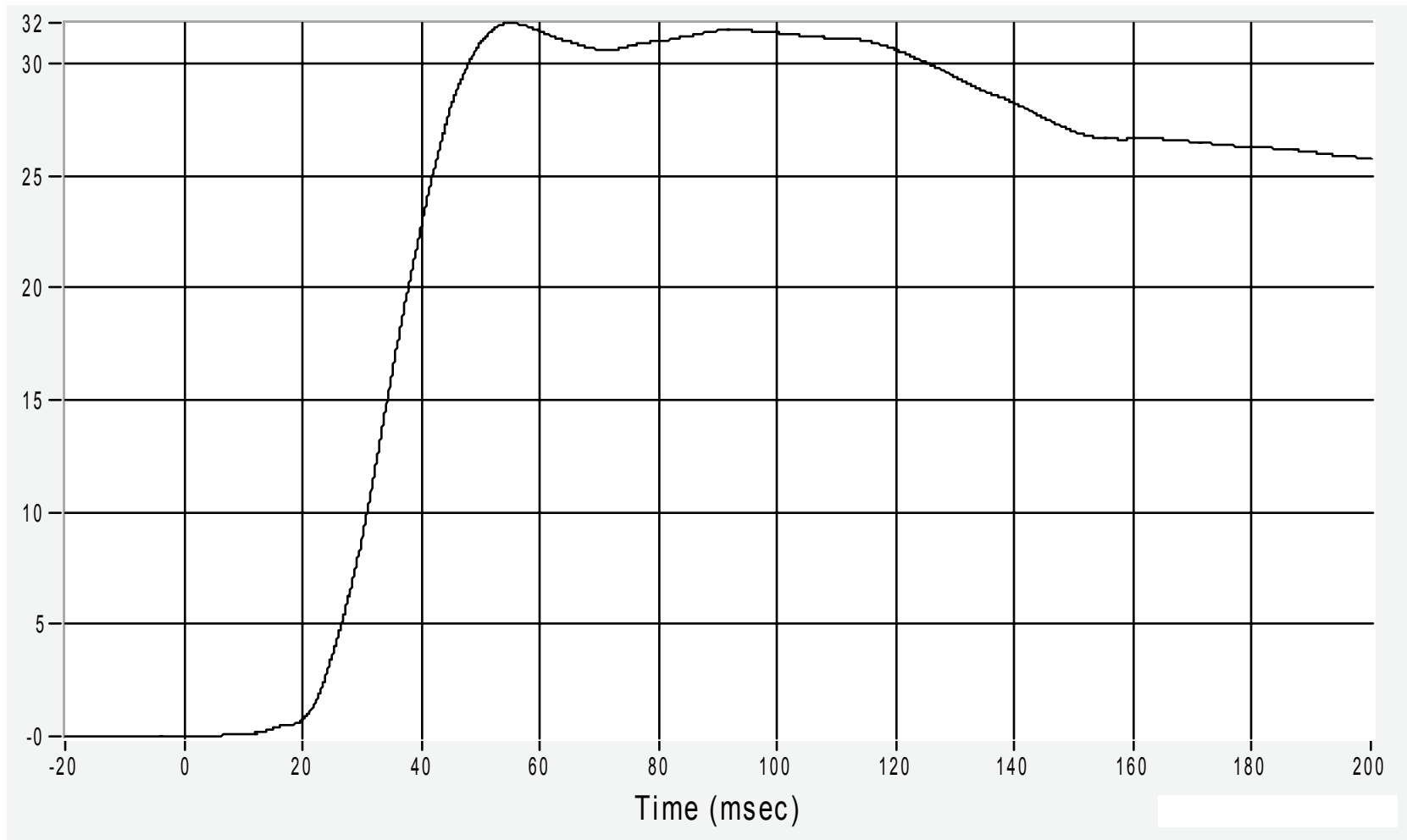
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Driver Pelvic (Y) Velocity

Velocity (km/h) CFC180

Max 31.8 km/h at 54.9 msec

Min 0.0 km/h at 1.6 msec



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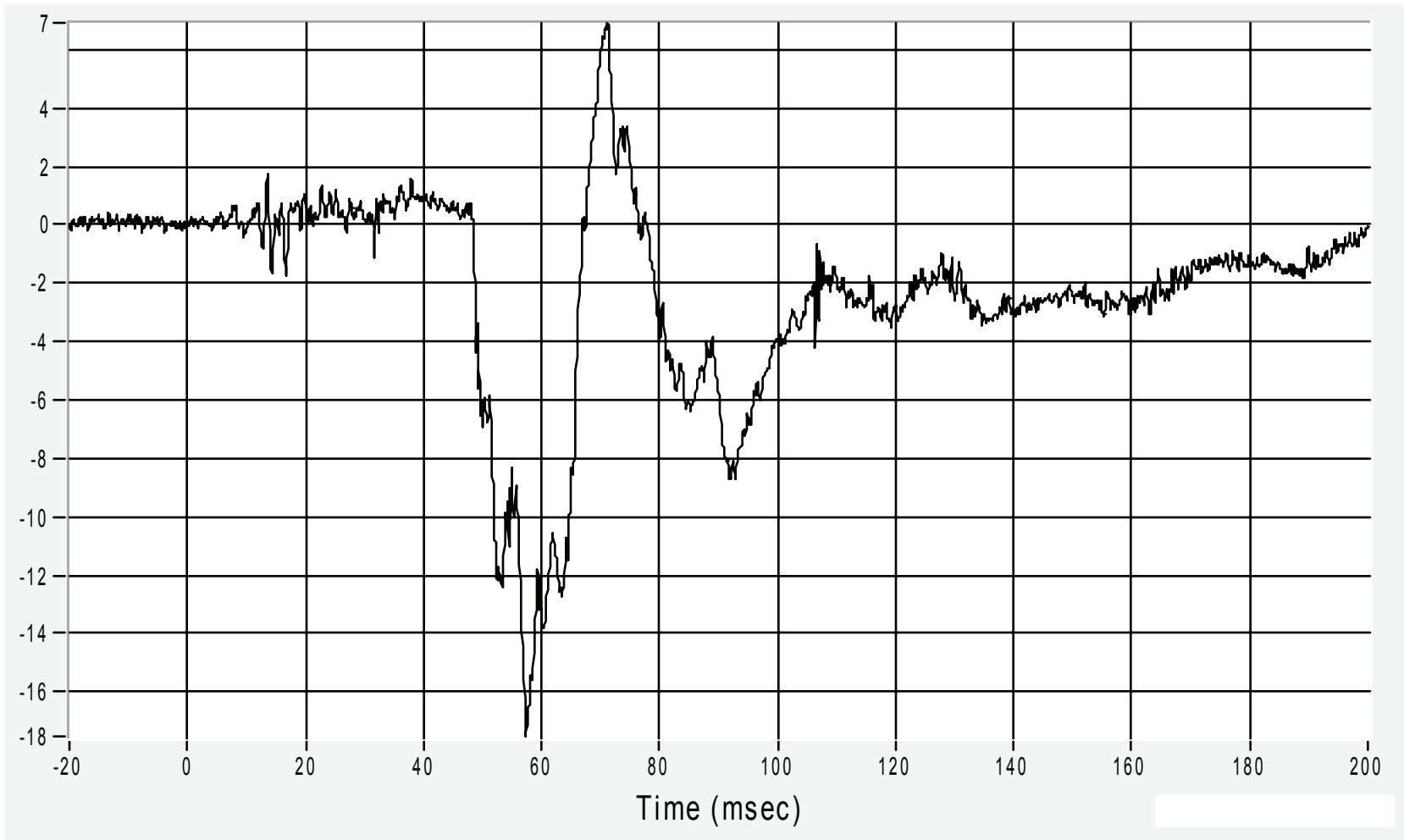
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Passenger Head CG (X) Acceleration

Acceleration (G's) CFC1000

Max 6.9 G at 71.2 msec

Min -17.5 G at 57.4 msec



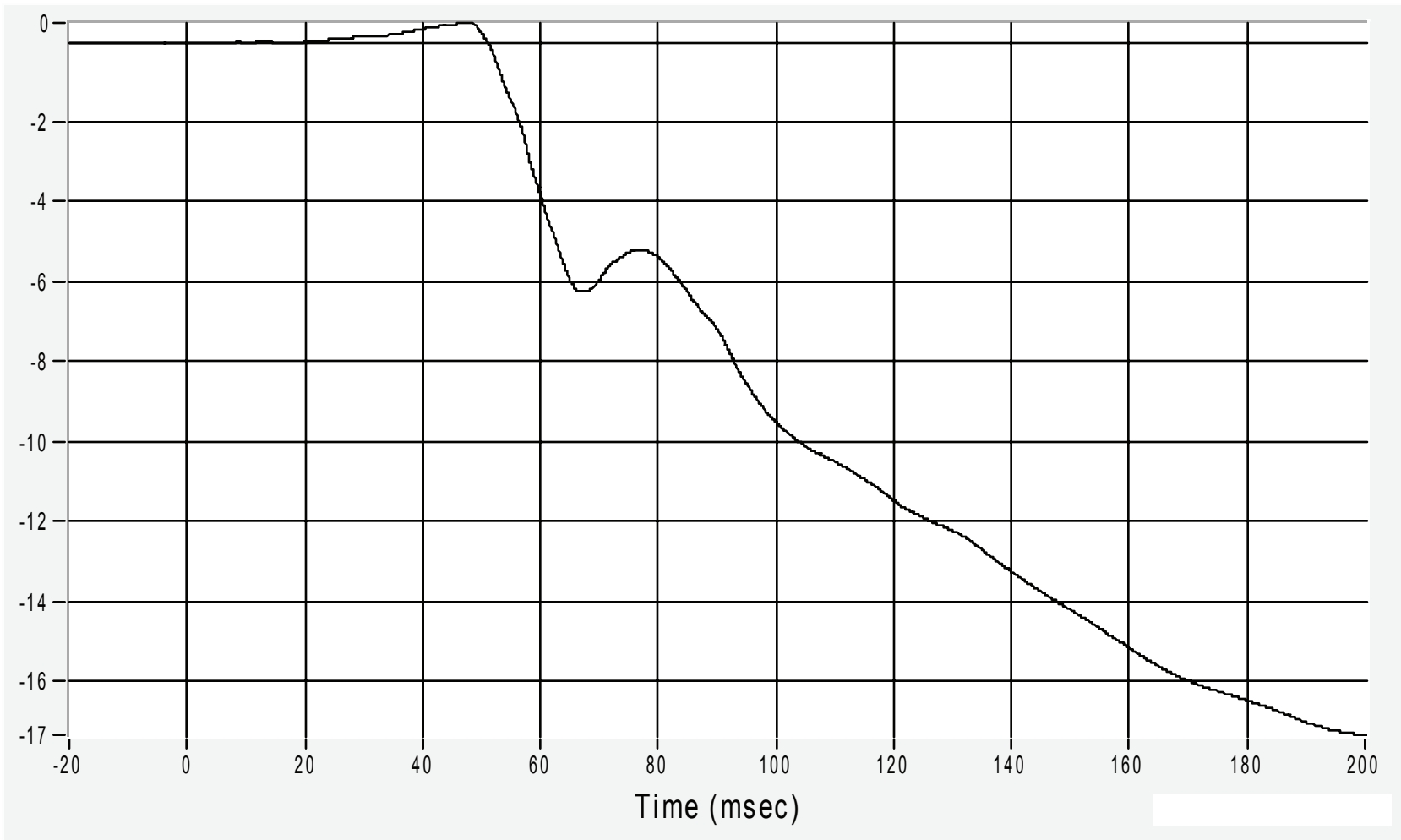
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Passenger Head CG (X) Velocity
Velocity (km/h) CFC180

Max 0.5 km/h at 47.9 msec
Min -17.3 km/h at 199.9 msec



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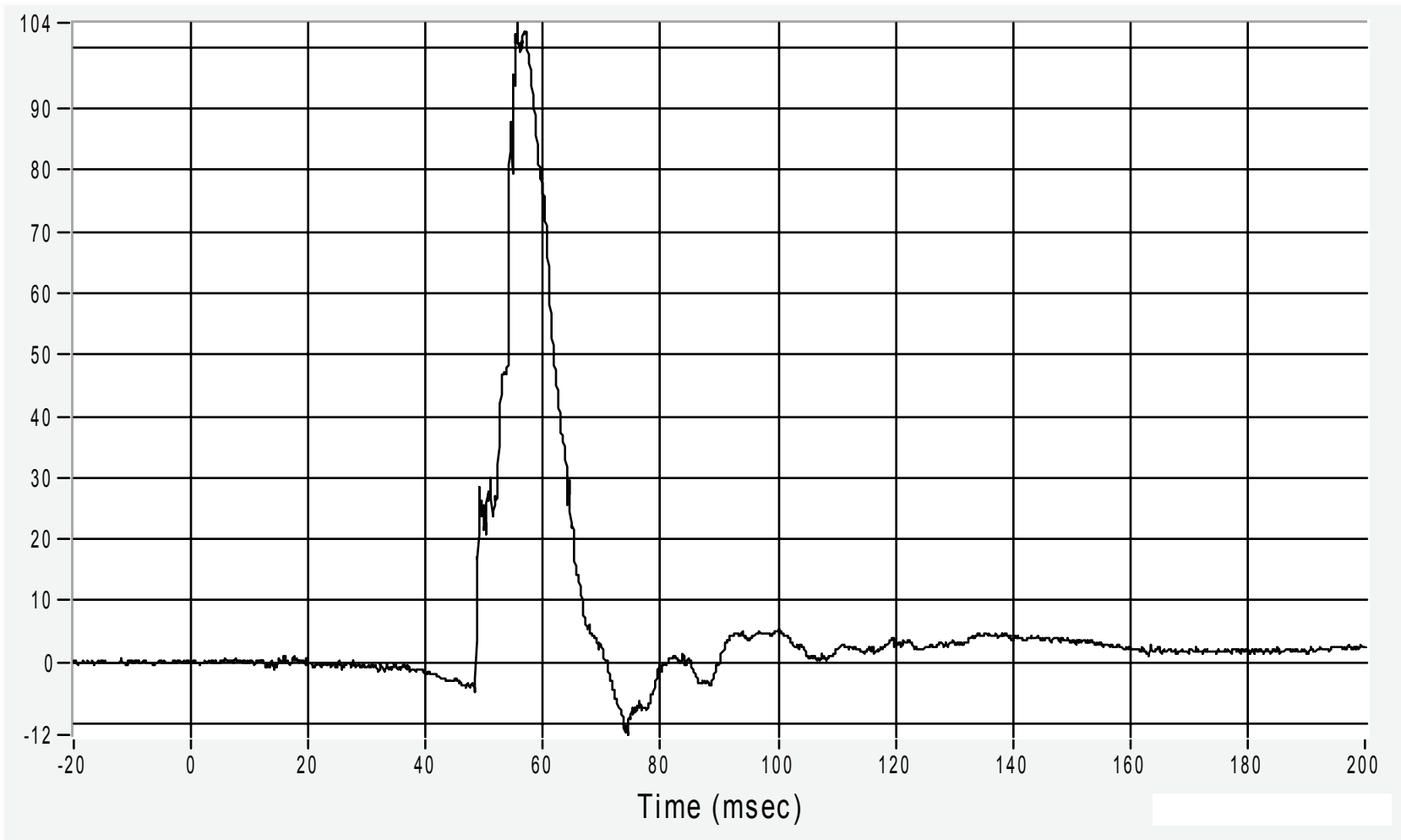
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Passenger Head CG (Y) Acceleration

Acceleration (G's) CFC1000

Max 103.9 G at 55.6 msec

Min -11.8 G at 74.4 msec



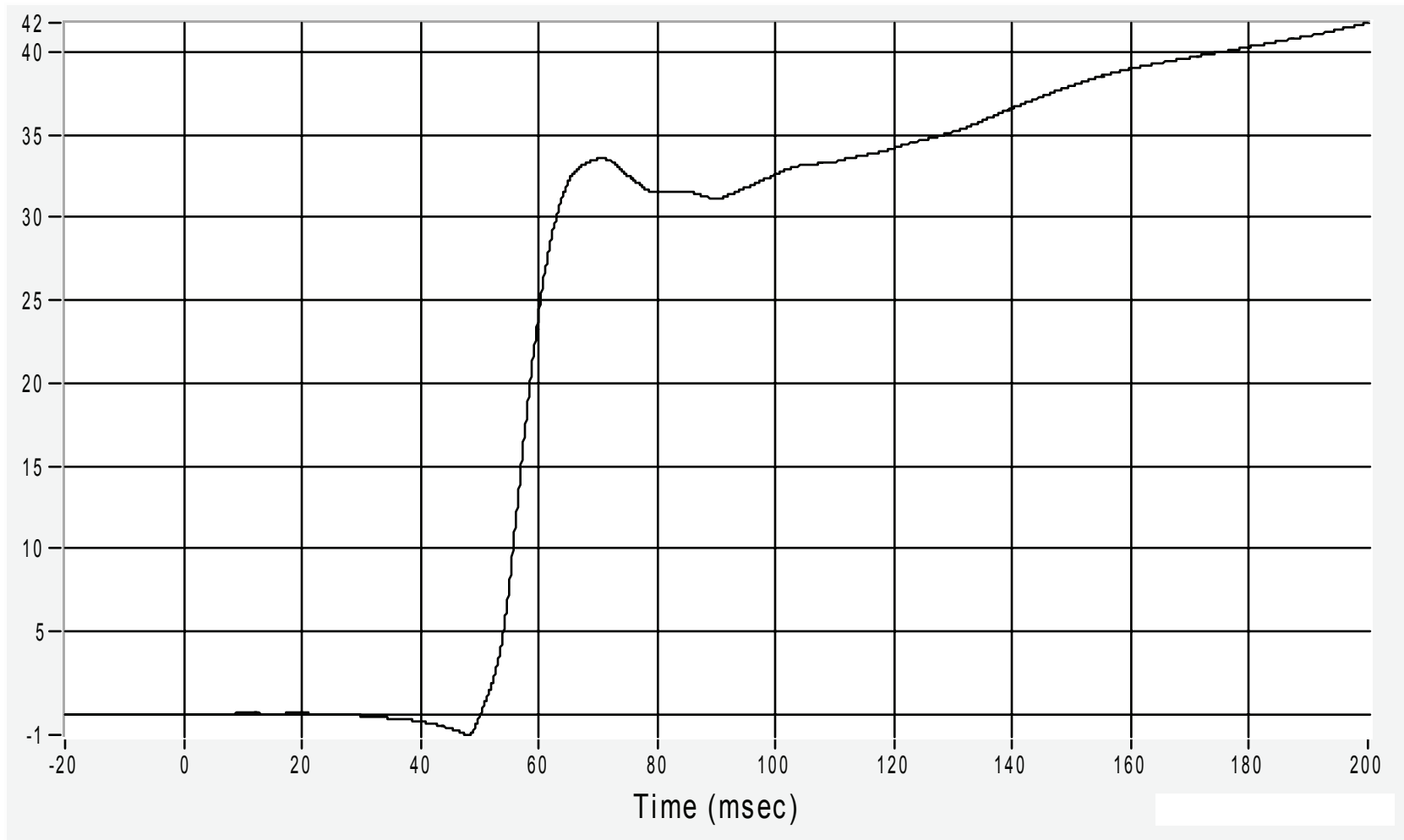
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Passenger Head CG (Y) Velocity
Velocity (km/h) CFC180

Max 41.7 km/h at 199.9 msec
Min -1.3 km/h at 48.1 msec



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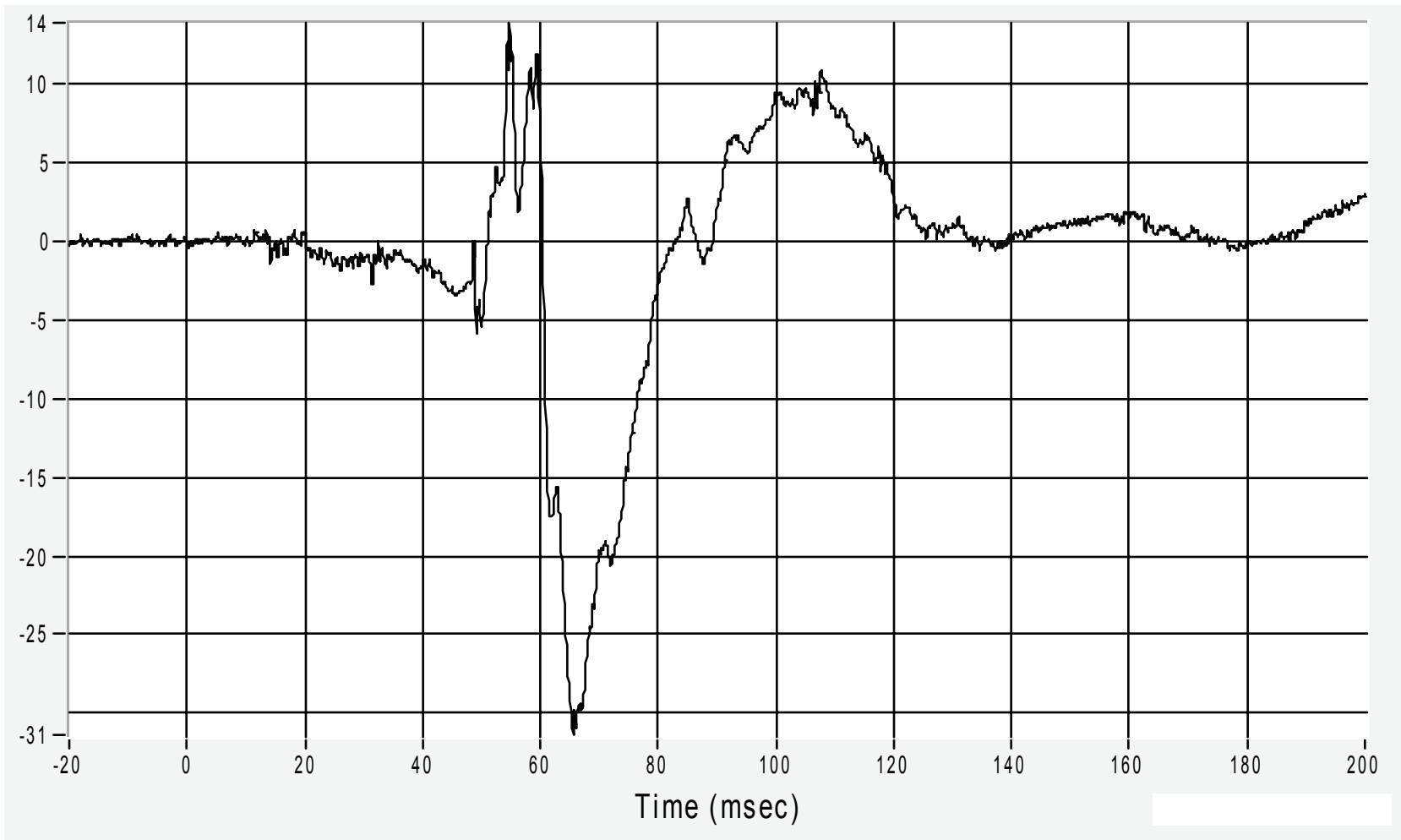
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Passenger Head CG (Z) Acceleration

Acceleration (G's) CFC1000

Max 13.9 G at 54.8 msec

Min -31.4 G at 65.5 msec



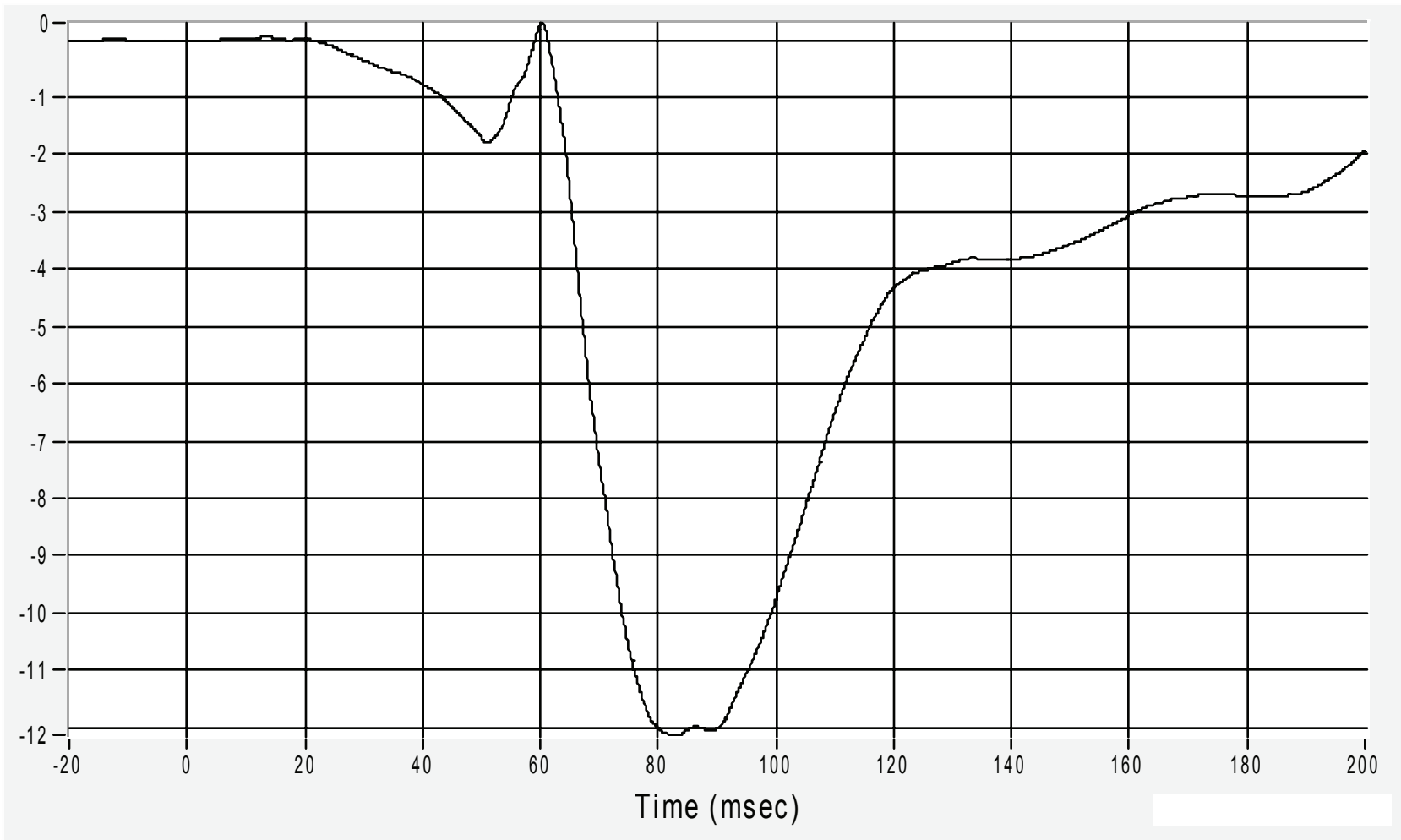
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Passenger Head CG (Z) Velocity
Velocity (km/h) CFC180

Max 0.3 km/h at 60.2 msec
Min -12.1 km/h at 82.9 msec



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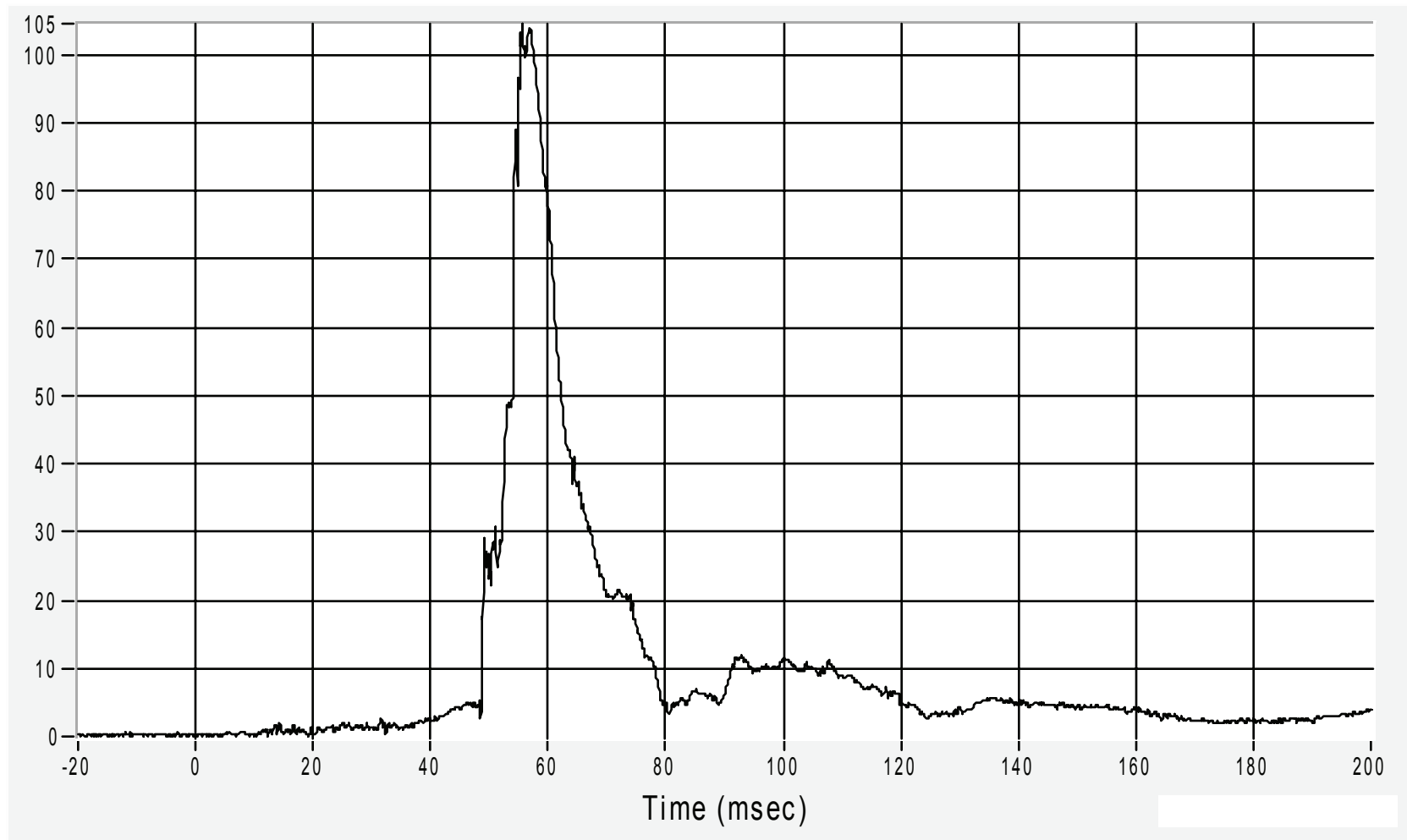
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Passenger Head Resultant Acceleration

Acceleration (G's) CFC1000

Max 104.5 G's at 55.6 msec

Min 0.1 G's at 0.1 msec



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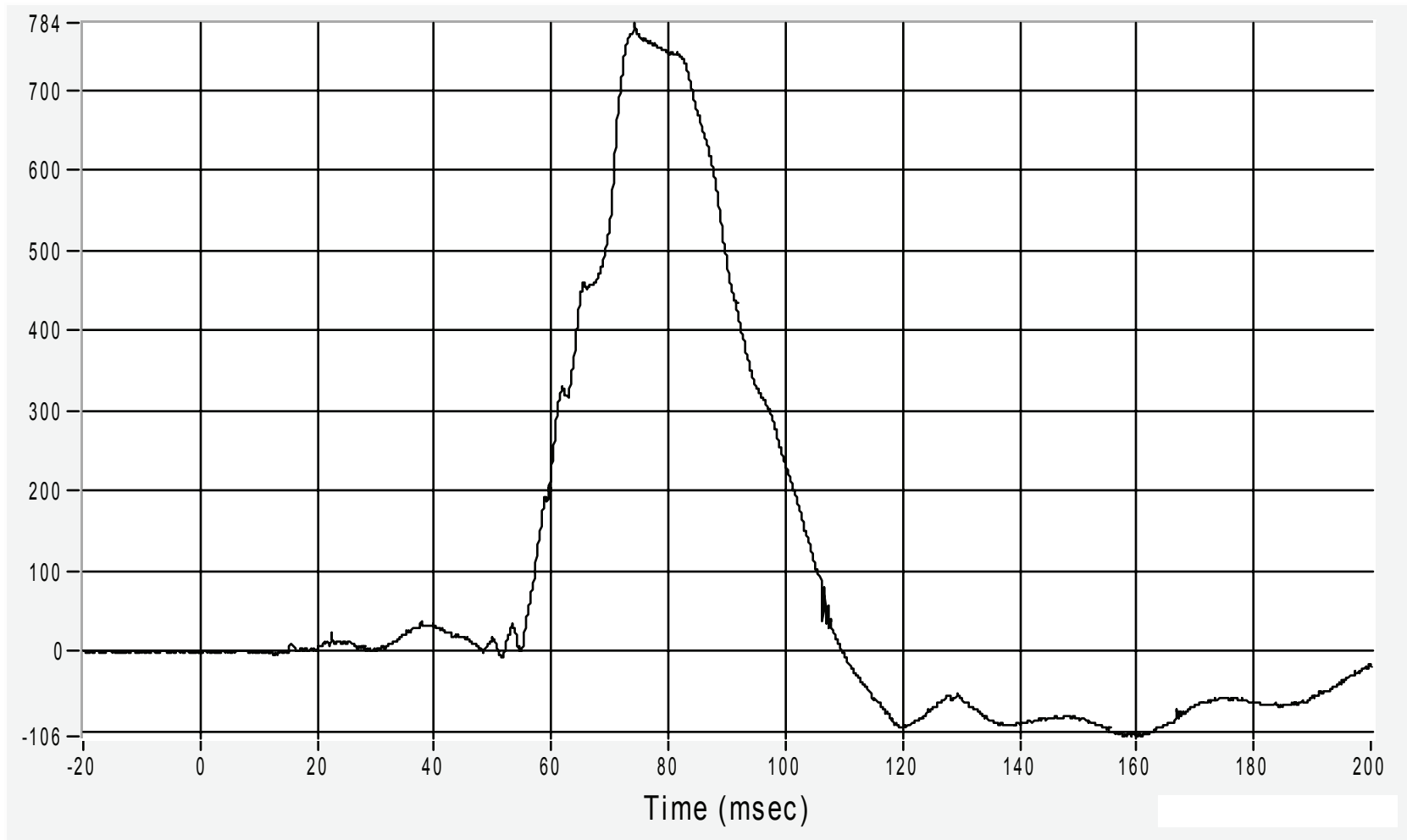
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Passenger Upper Neck (X) Force

Force (N) CFC1000

Max 783.7 N at 74.2 msec

Min -105.6 N at 159.1 msec



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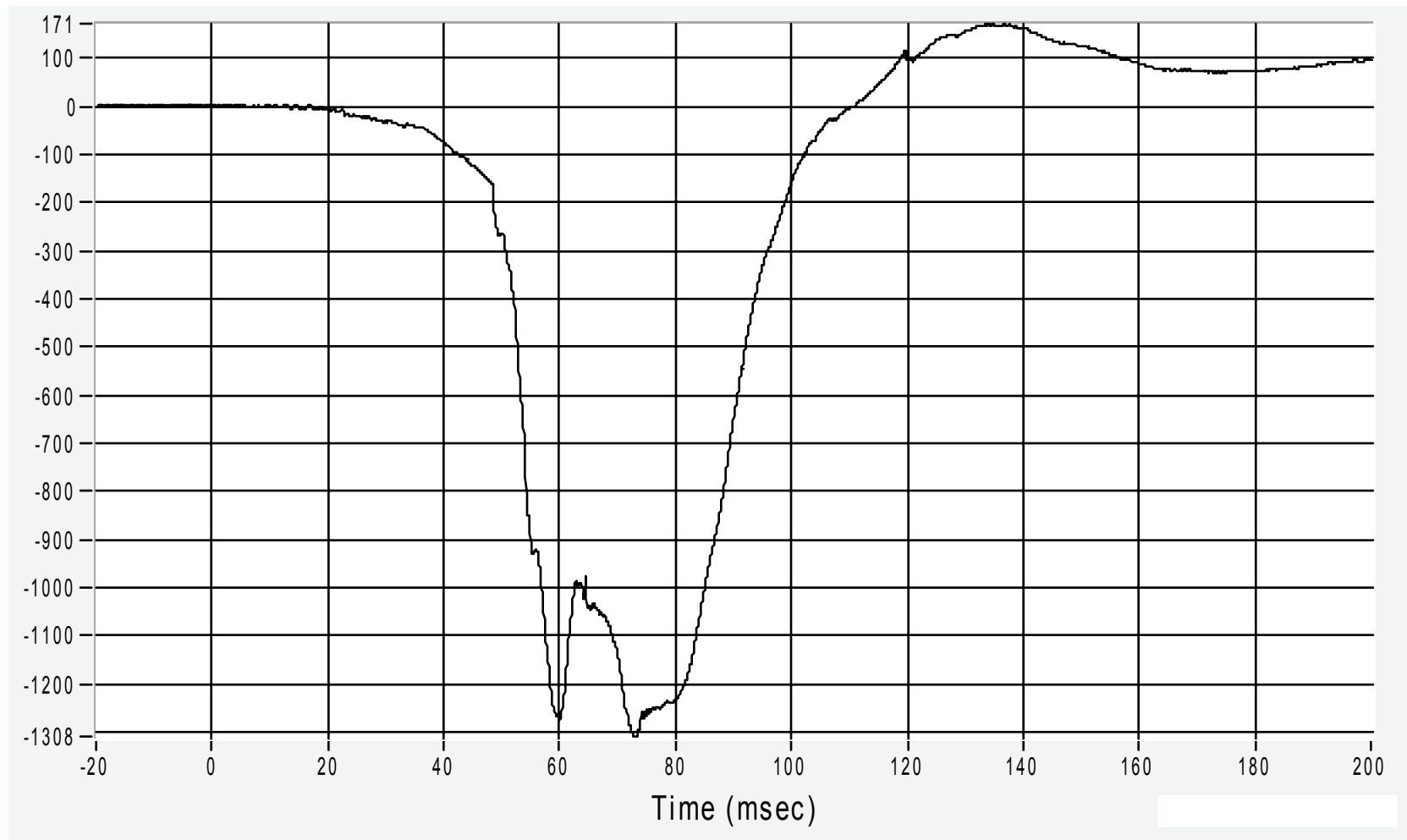
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Passenger Upper Neck (Y) Force

Force (N) CFC1000

Max 171.0 N at 136.6 msec

Min -1308.5 N at 72.9 msec



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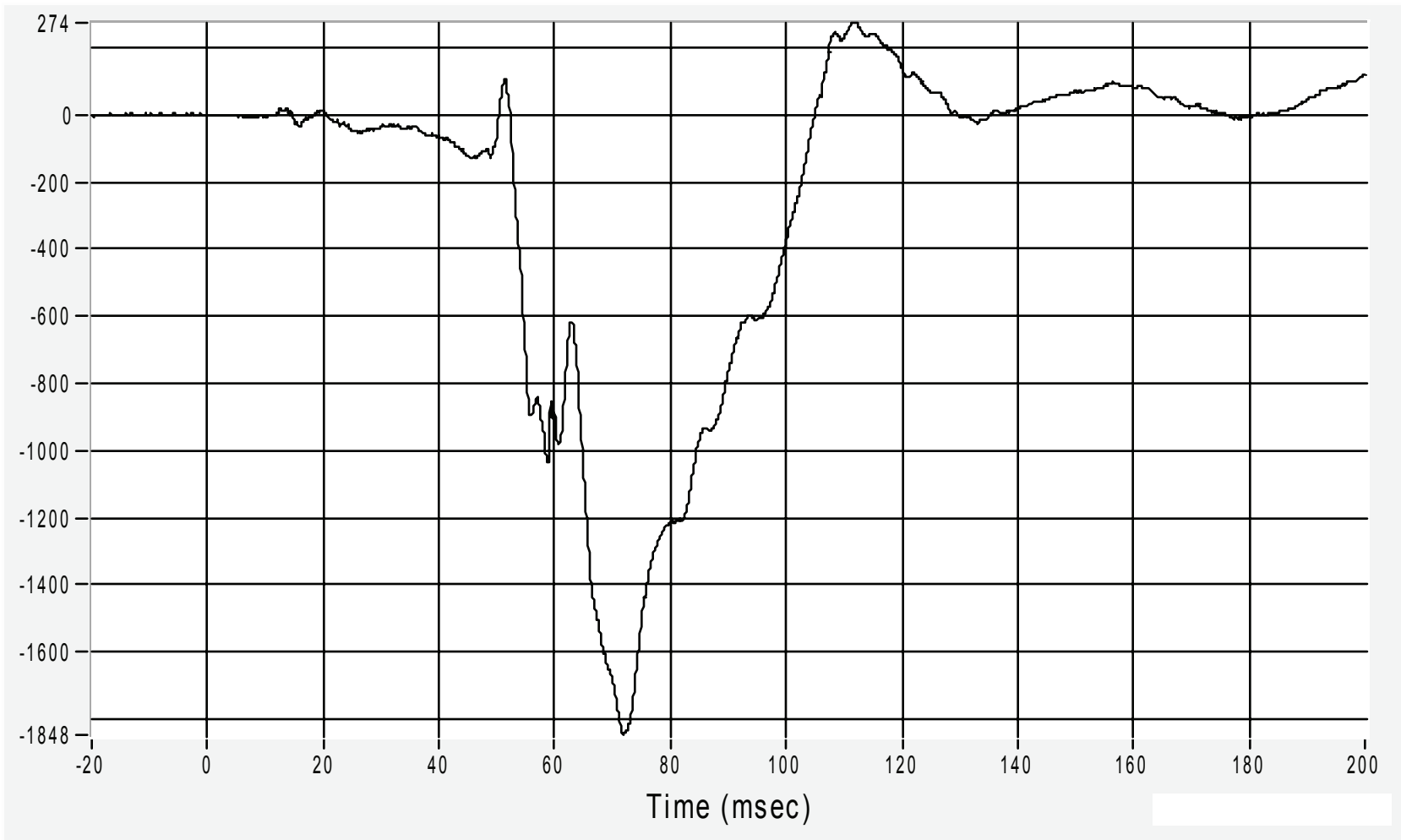
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Passenger Upper Neck (Z) Force

Force (N) CFC1000

Max 274.0 N at 111.4 msec

Min -1847.7 N at 71.9 msec



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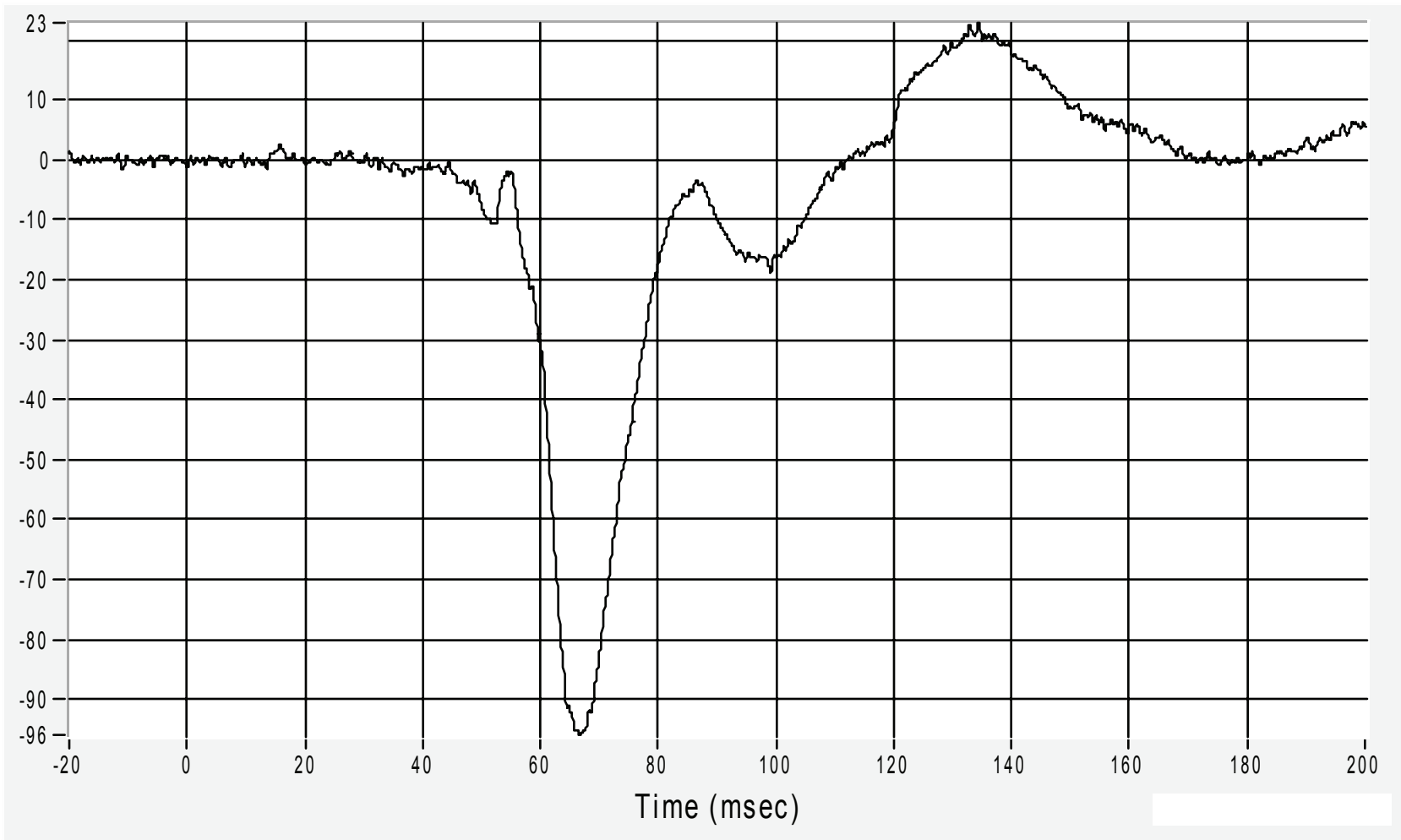
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Passenger Upper Neck (X) Moment

Moment (Nm) CFC600

Max 22.9 Nm at 134.4 msec

Min -96.0 Nm at 66.9 msec



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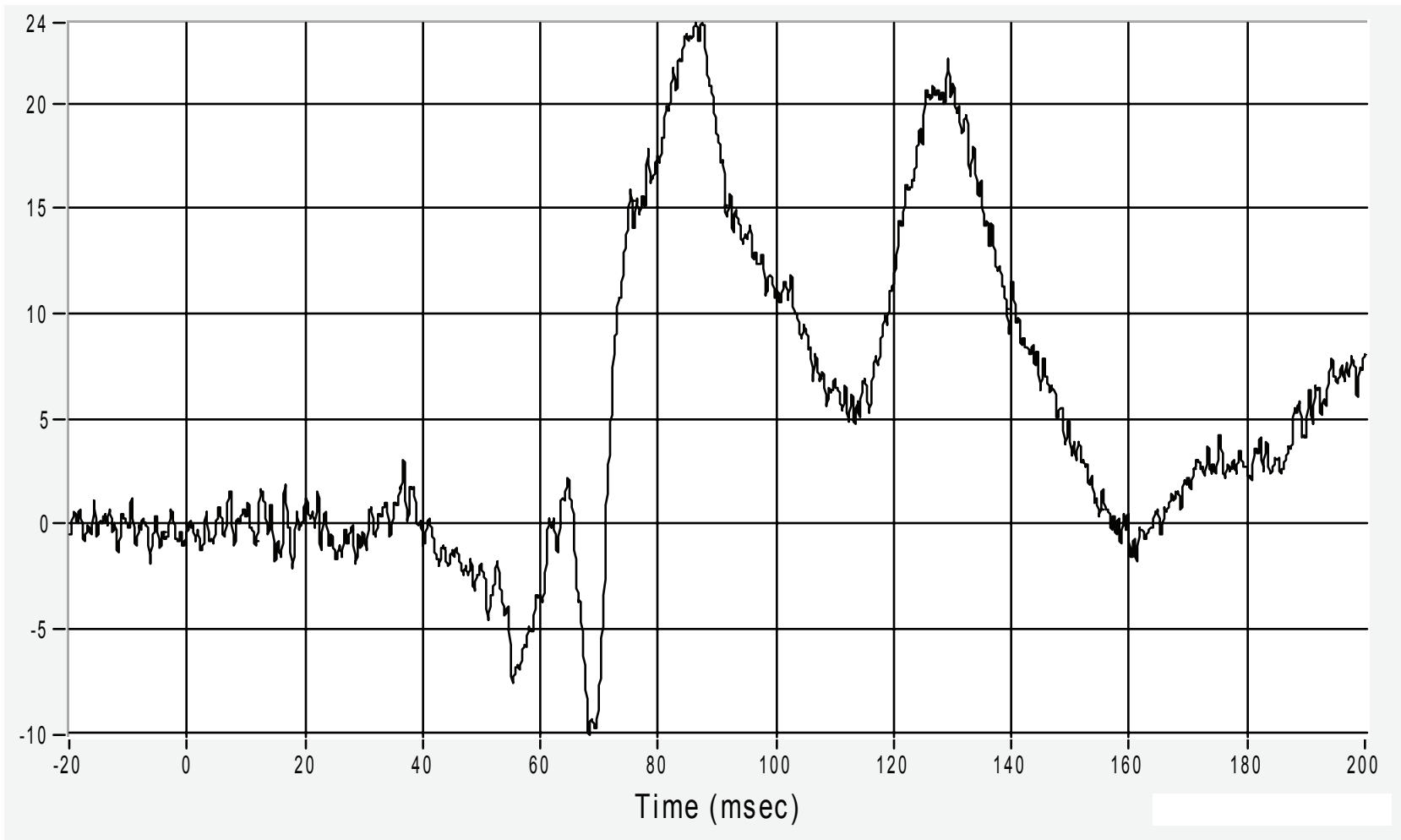
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Passenger Upper Neck (Y) Moment

Moment (Nm) CFC600

Max 23.8 Nm at 86.4 msec

Min -10.1 Nm at 68.2 msec



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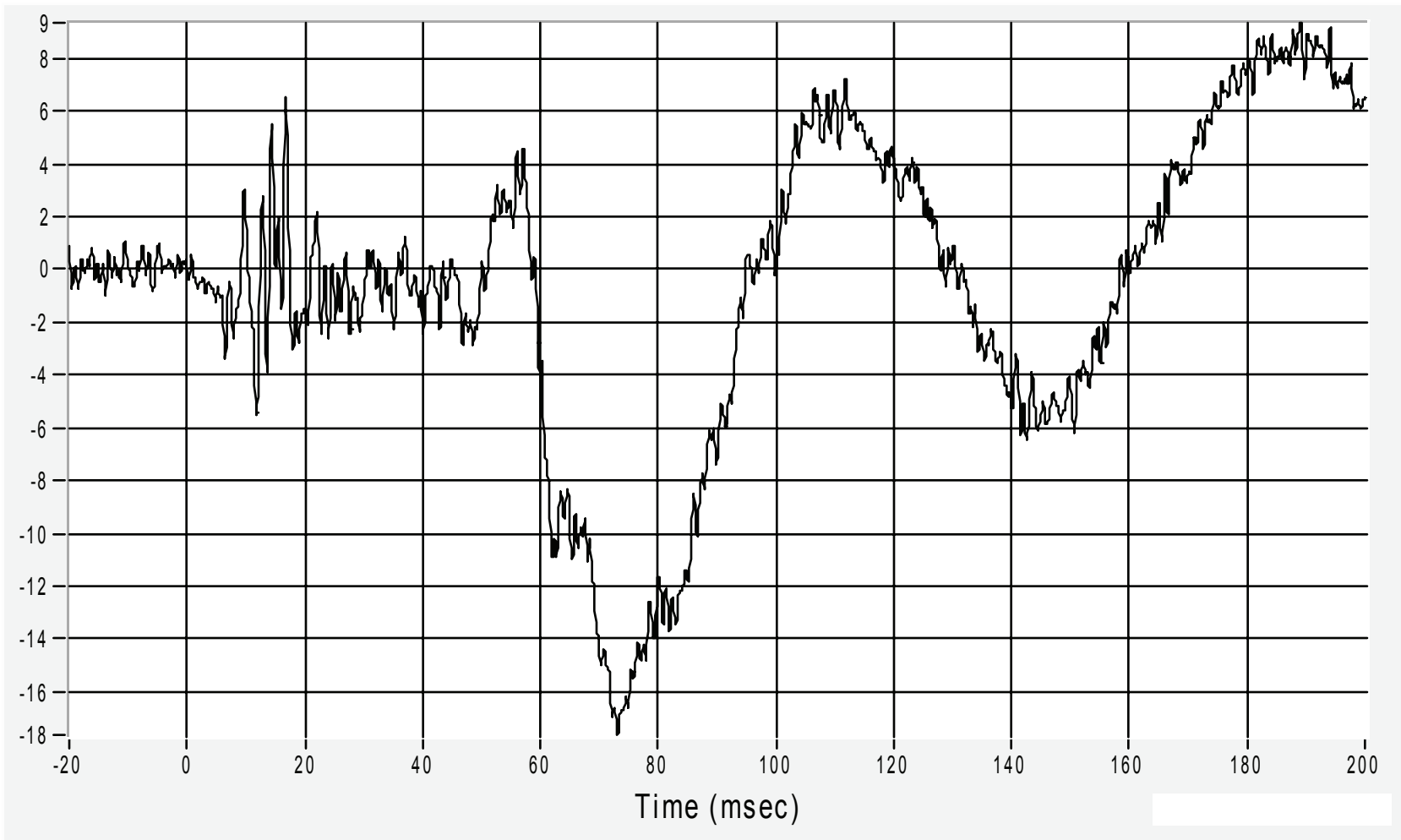
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Passenger Upper Neck (Z) Moment

Moment (Nm) CFC600

Max 9.3 Nm at 189.1 msec

Min -17.6 Nm at 73.1 msec



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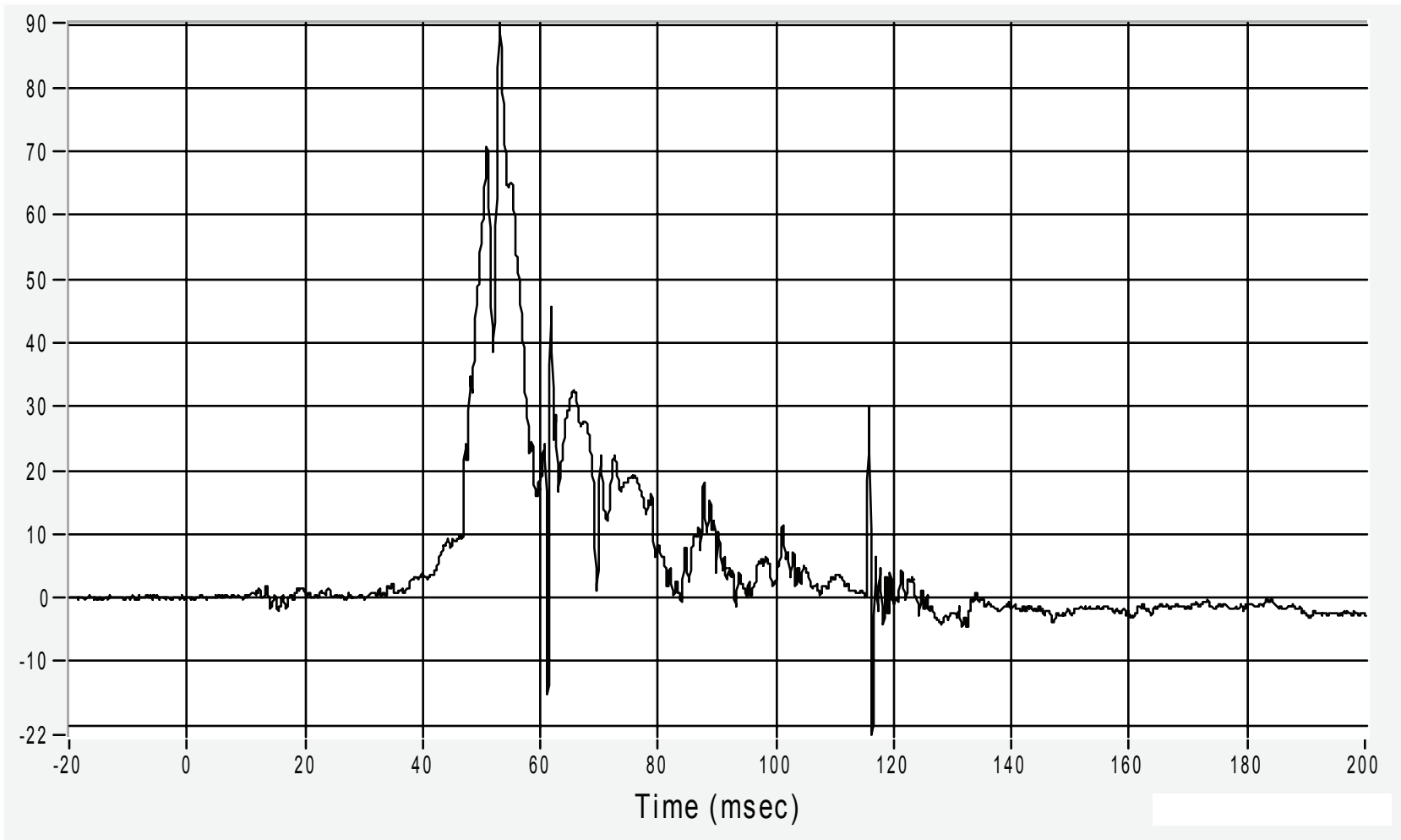
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Passenger Upper Rib (Y) Acceleration

Acceleration (G's) CFC1000

Max 90.2 G at 53.1 msec

Min -21.5 G at 116.4 msec



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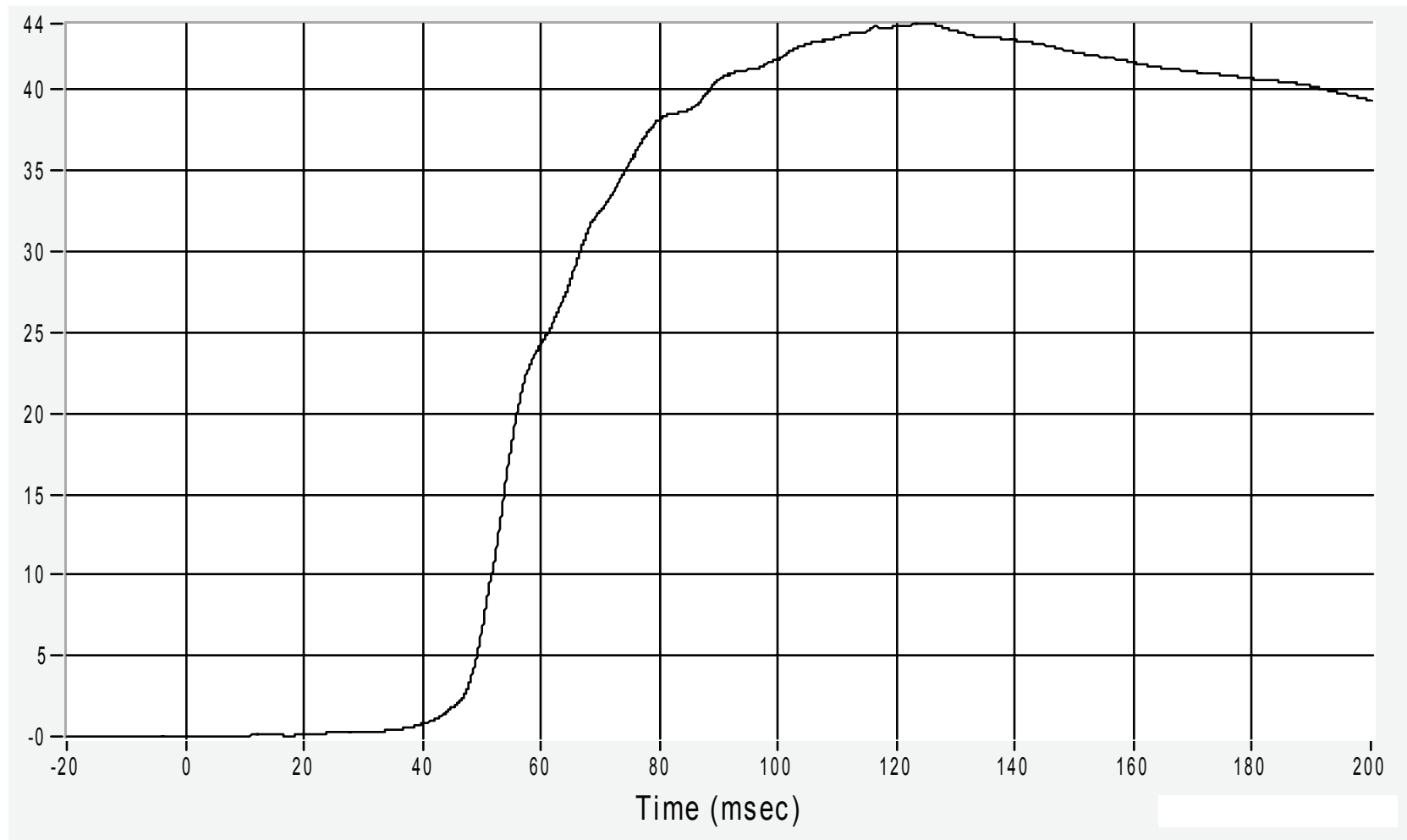
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Passenger Upper Rib (Y) Velocity

Velocity (km/h) CFC180

Max 44.1 km/h at 123.8 msec

Min 0.0 km/h at 1.4 msec



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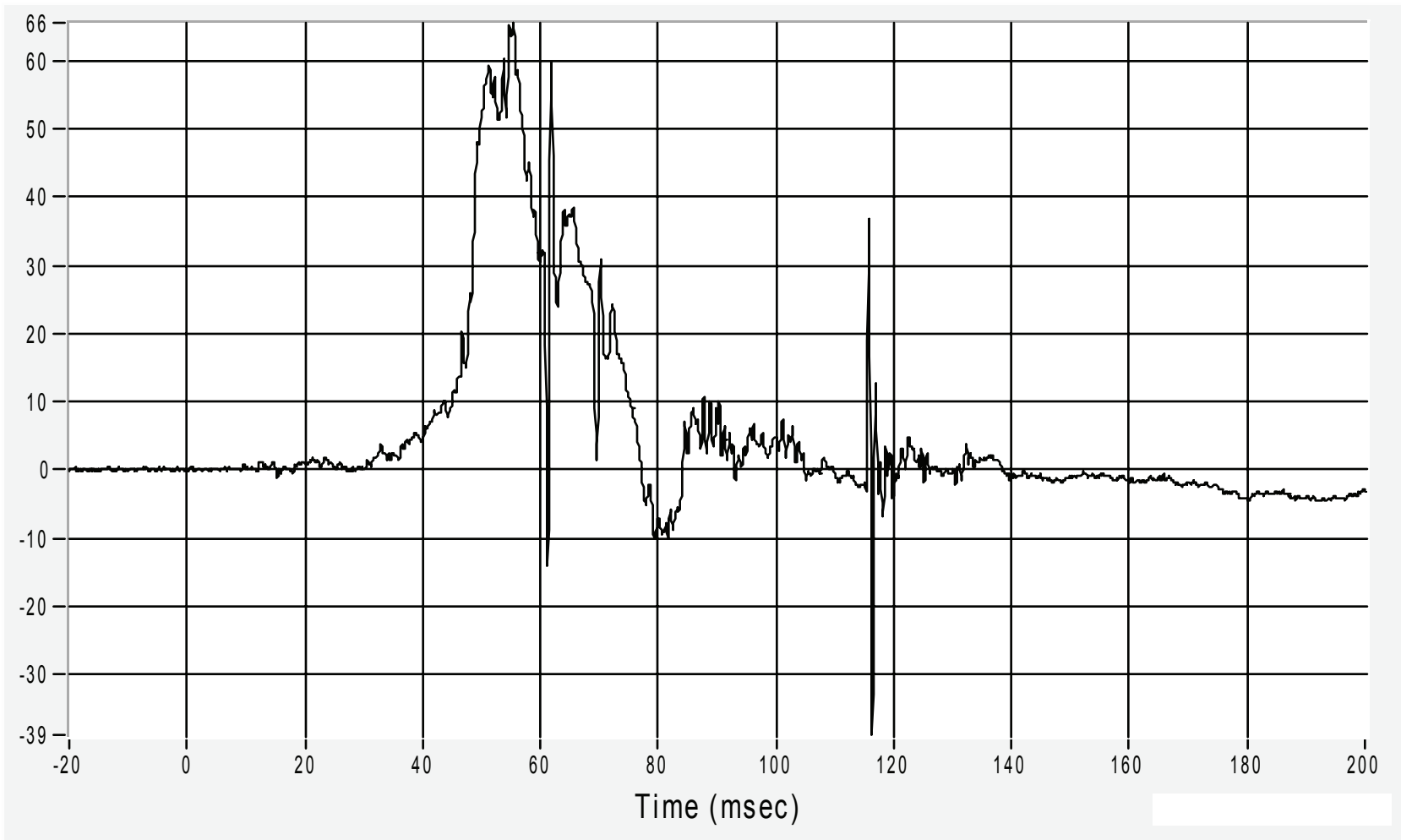
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Passenger Lower Rib (Y) Acceleration

Acceleration (G's) CFC1000

Max 65.5 G at 55.4 msec

Min -38.9 G at 116.4 msec



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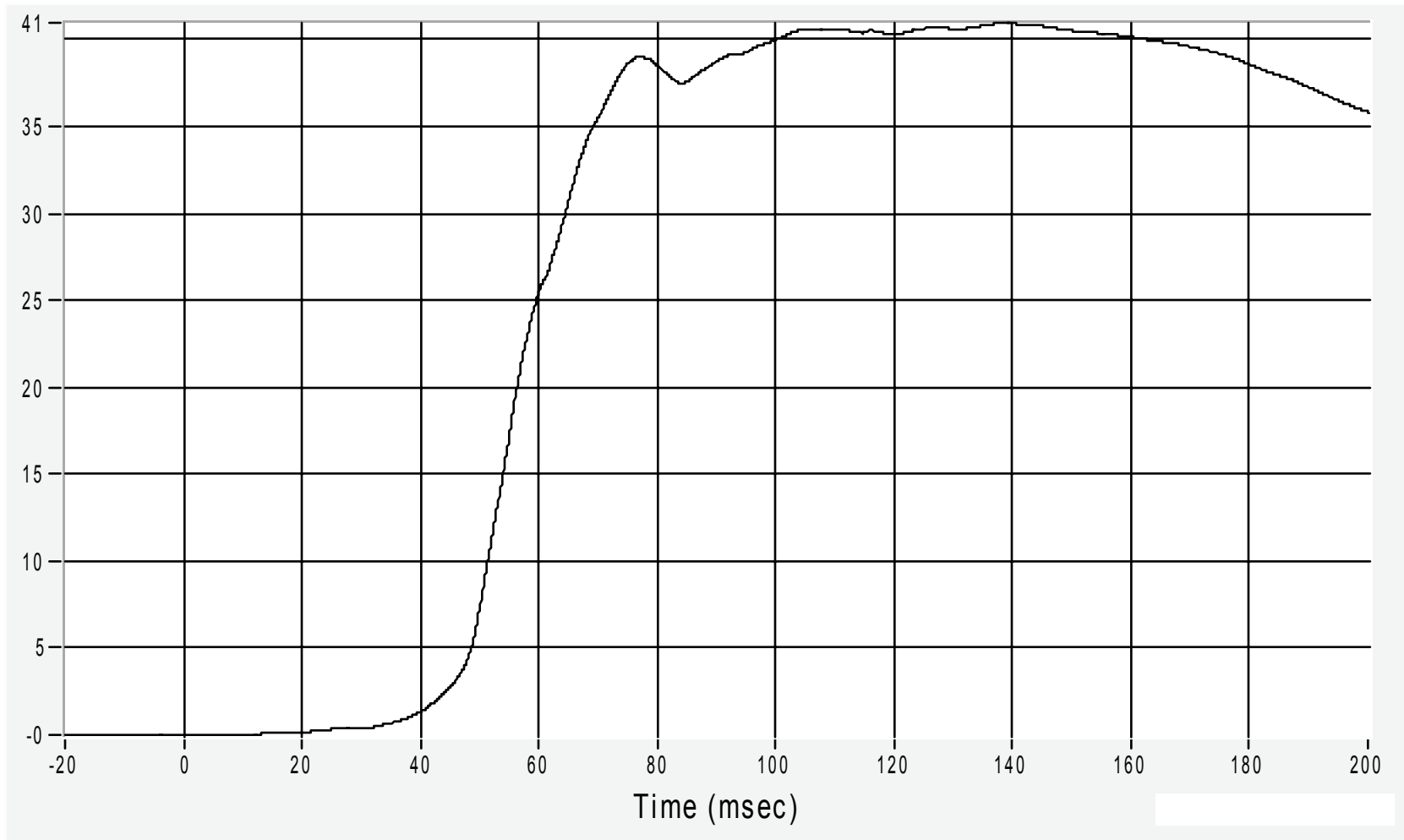
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Passenger Lower Rib (Y) Velocity

Velocity (km/h) CFC180

Max 41.0 km/h at 138.5 msec

Min 0.0 km/h at 0.0 msec



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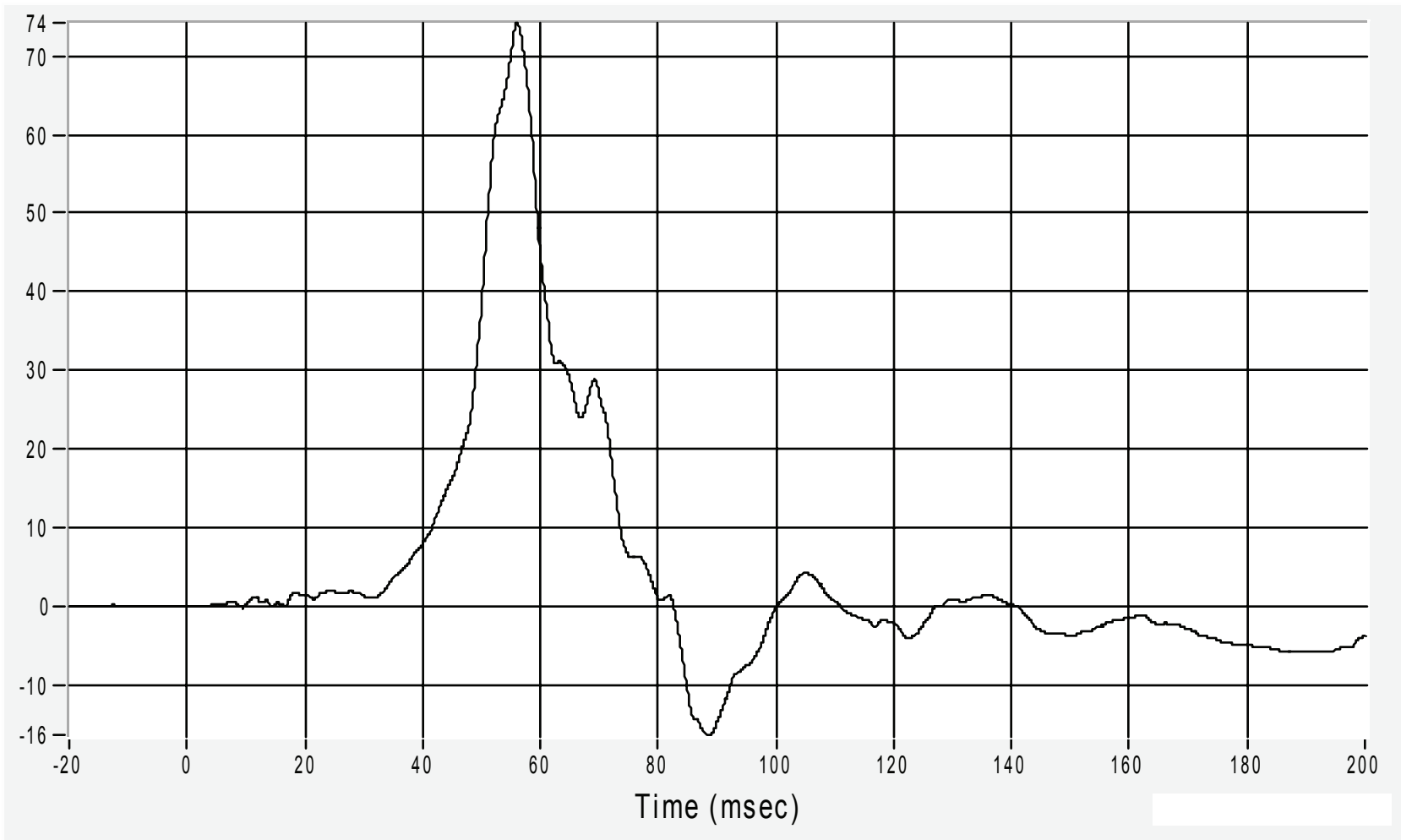
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Passenger Lower Spine (Y) Acceleration

Acceleration (G's) CFC180

Max 74.2 G at 56.1 msec

Min -16.4 G at 88.6 msec



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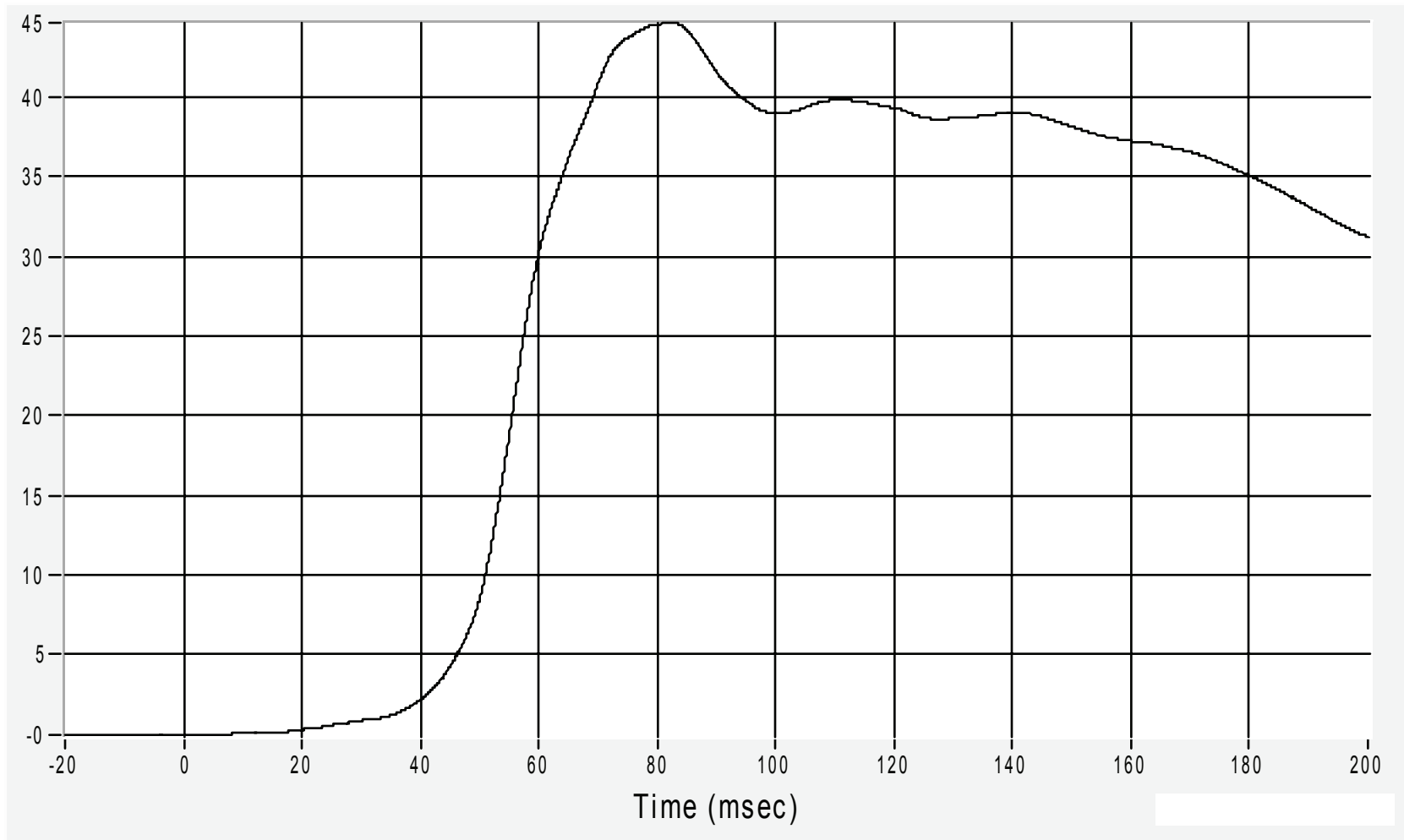
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Passenger Lower Spine (Y) Velocity

Velocity (km/h) CFC180

Max 44.6 km/h at 82.6 msec

Min 0.0 km/h at 2.3 msec



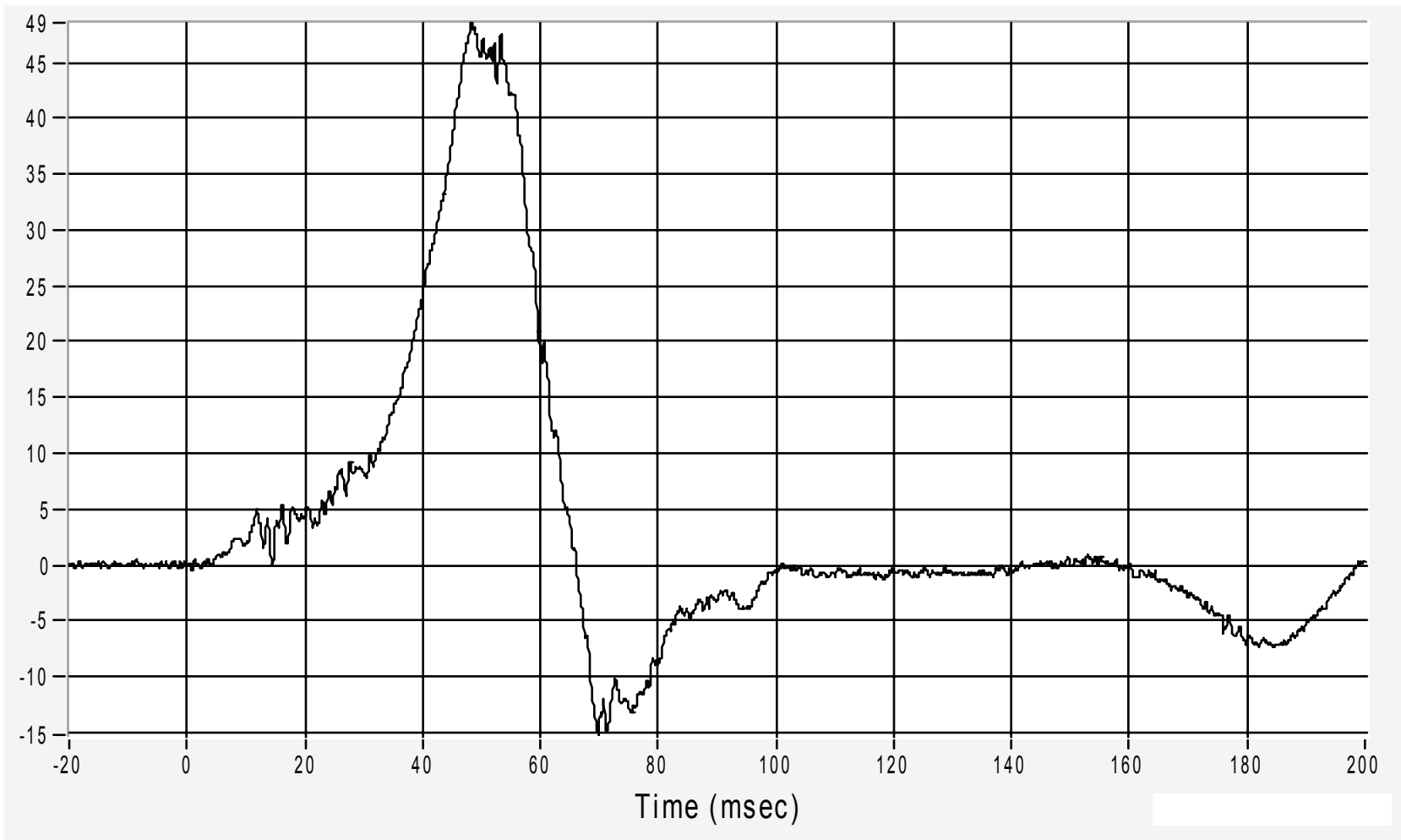
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Passenger Pelvic (Y) Acceleration
Acceleration (G's) CFC1000

Max 48.5 G at 48.2 msec
Min -15.2 G at 69.8 msec



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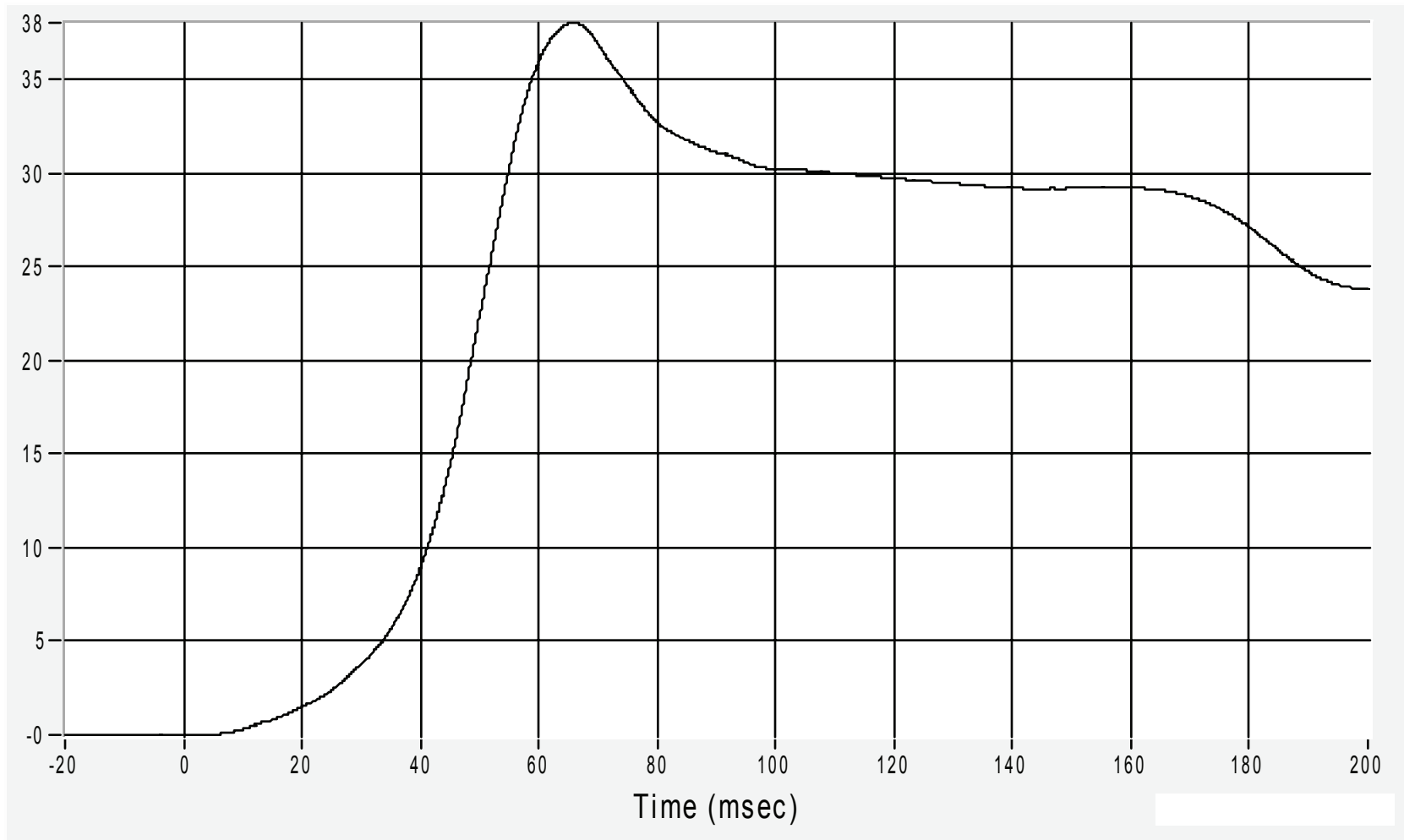
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Passenger Pelvic (Y) Velocity

Velocity (km/h) CFC180

Max 38.1 km/h at 66.0 msec

Min 0.0 km/h at 2.6 msec



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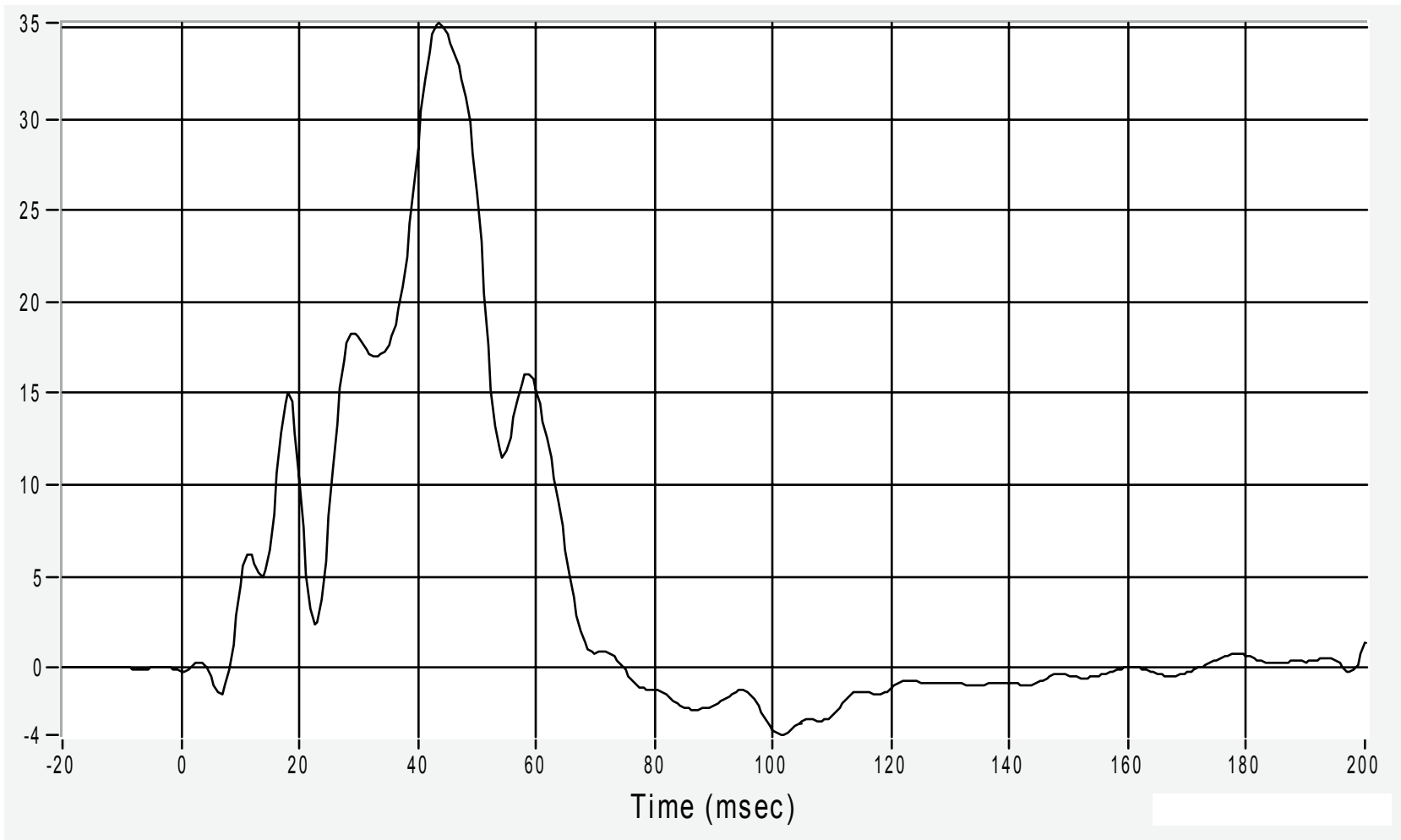
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Driver Upper Rib (Y) Acceleration

Acceleration (G's) FIR100

Max 35.2 G at 43.8 msec

Min -3.6 G at 101.2 msec



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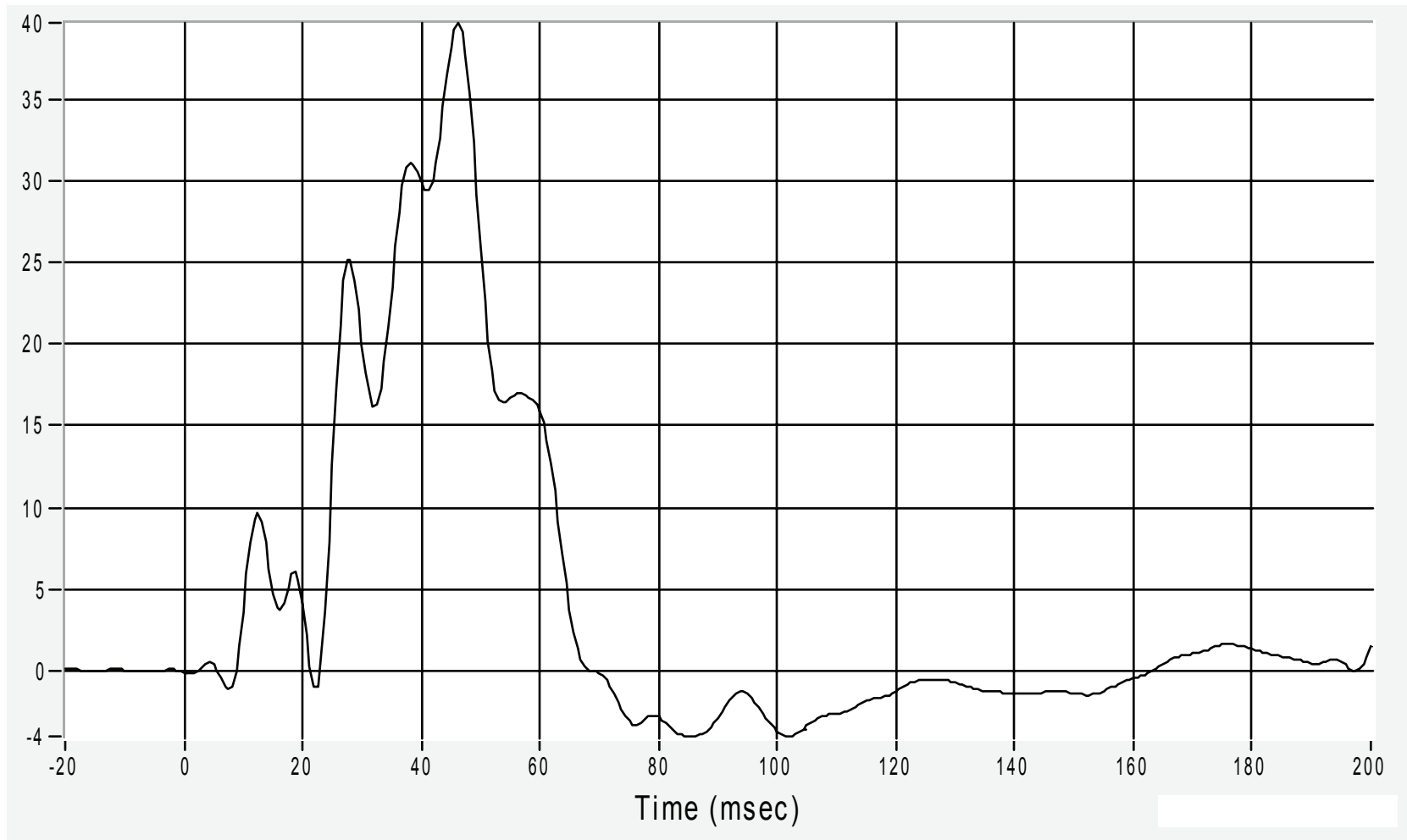
*Medical College of Wisconsin
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Driver Lower Rib (Y) Acceleration

Acceleration (G's) FIR100

Max 39.7 G at 46.2 msec

Min -4.1 G at 101.9 msec



08SN01 - 2008 FORD MUSTANG 2-DOOR COUPE

22 August 2007

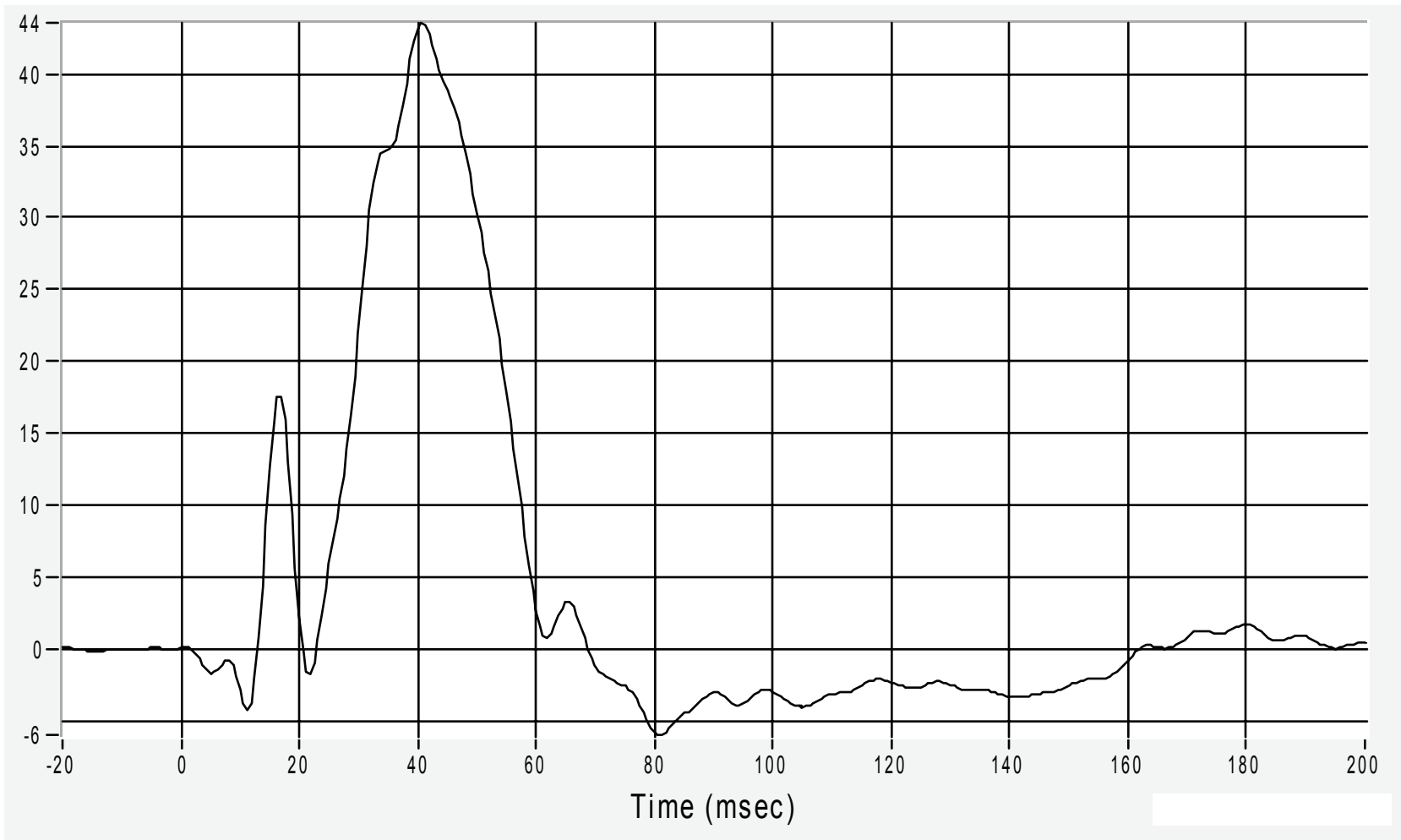
*Medical College of Wisconsin
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Driver Lower Spine (Y) Acceleration

Acceleration (G's) FIR100

Max 43.5 G at 40.6 msec

Min -5.9 G at 80.6 msec



08SN01 - 2008 FORD MUSTANG 2-DOOR COUPE
22 August 2007

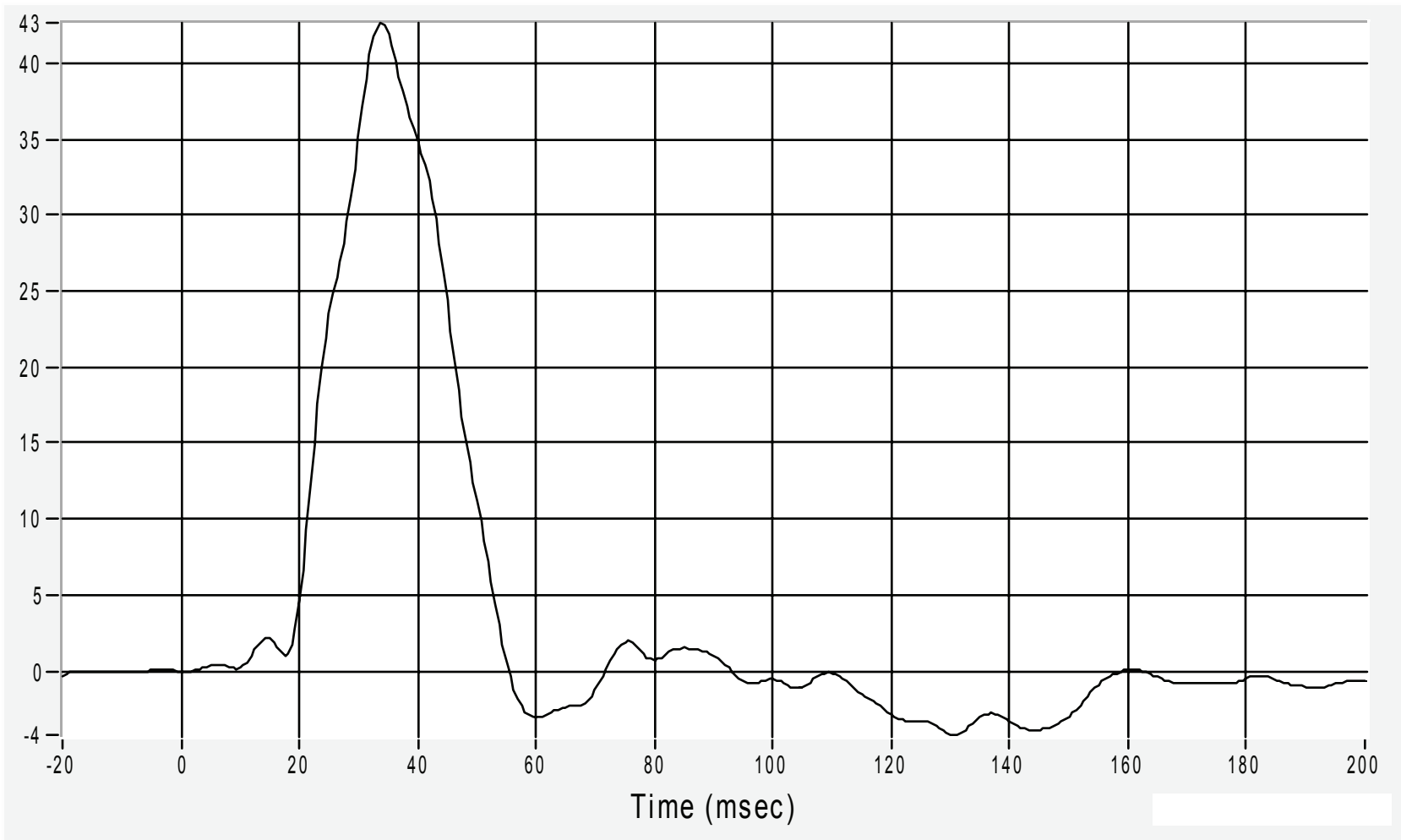
*Medical College of Wisconsin
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Driver Pelvic (Y) Acceleration

Acceleration (G's) FIR100

Max 42.6 G at 33.8 msec

Min -4.2 G at 130.6 msec



08SN01 - 2008 FORD MUSTANG 2-DOOR COUPE
22 August 2007

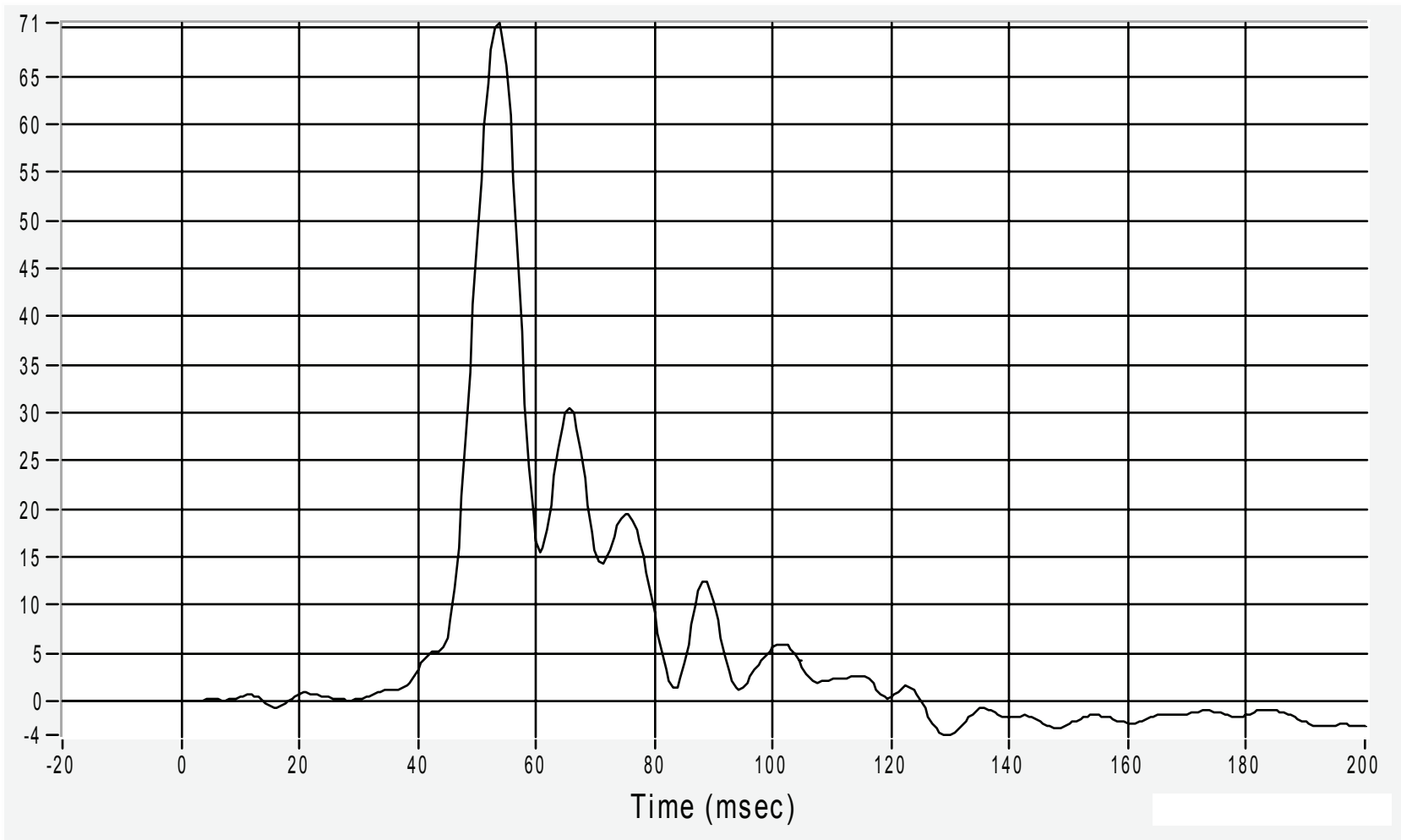
*Medical College of Wisconsin
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Passenger Upper Rib (Y) Acceleration

Acceleration (G's) FIR100

Max 70.6 G at 53.8 msec

Min -3.5 G at 129.4 msec



08SN01 - 2008 FORD MUSTANG 2-DOOR COUPE

22 August 2007

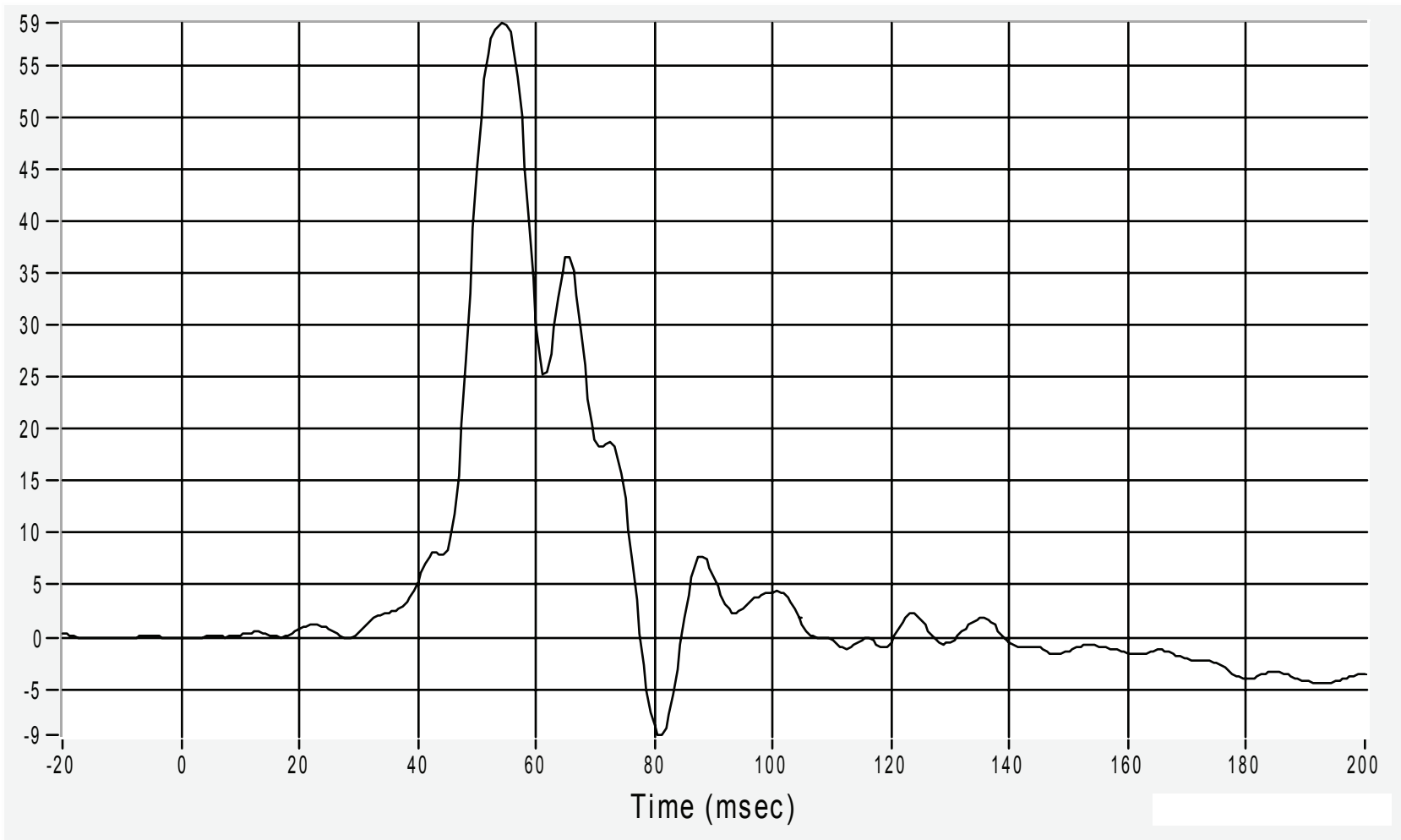
*Medical College of Wisconsin
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Passenger Lower Rib (Y) Acceleration

Acceleration (G's) FIR100

Max 59.0 G at 54.4 msec

Min -9.4 G at 81.2 msec



08SN01 - 2008 FORD MUSTANG 2-DOOR COUPE

22 August 2007

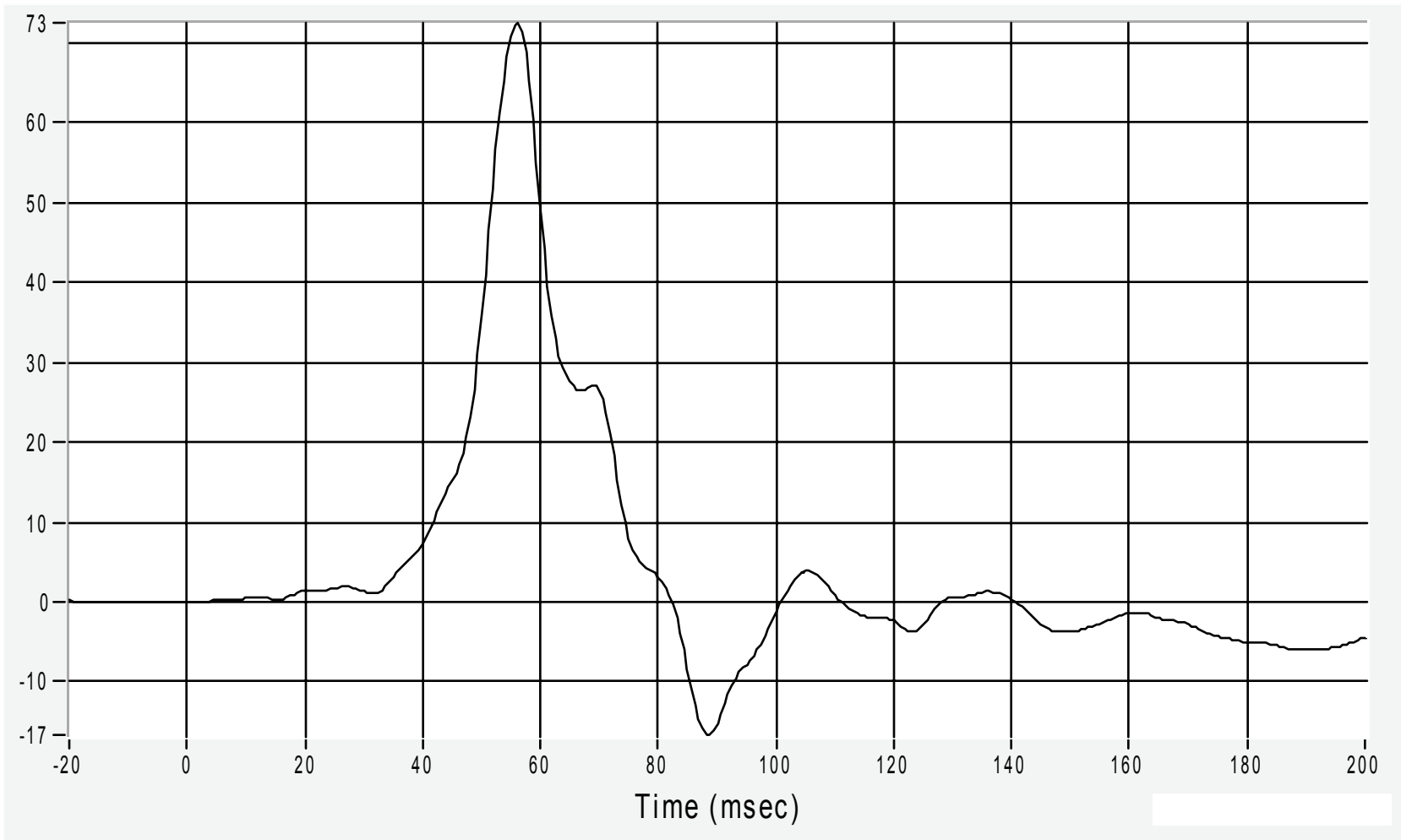
*Medical College of Wisconsin
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Passenger Lower Spine (Y) Acceleration

Acceleration (G's) FIR100

Max 72.6 G at 56.2 msec

Min -16.7 G at 88.8 msec



08SN01 - 2008 FORD MUSTANG 2-DOOR COUPE

22 August 2007

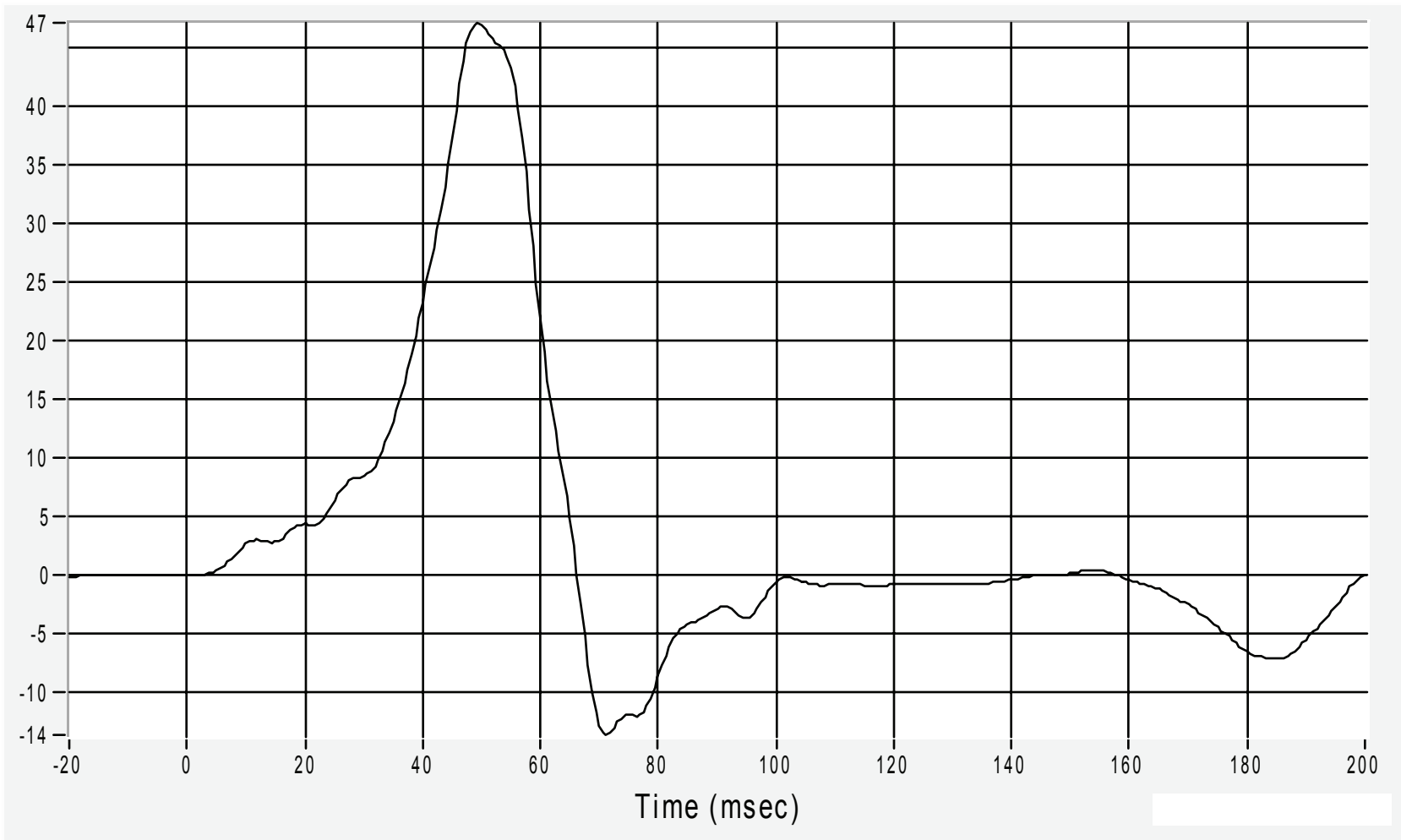
*Medical College of Wisconsin
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Passenger Pelvic (Y) Acceleration

Acceleration (G's) FIR100

Max 47.2 G at 49.4 msec

Min -13.7 G at 71.2 msec



08SN01 - 2008 FORD MUSTANG 2-DOOR COUPE

22 August 2007

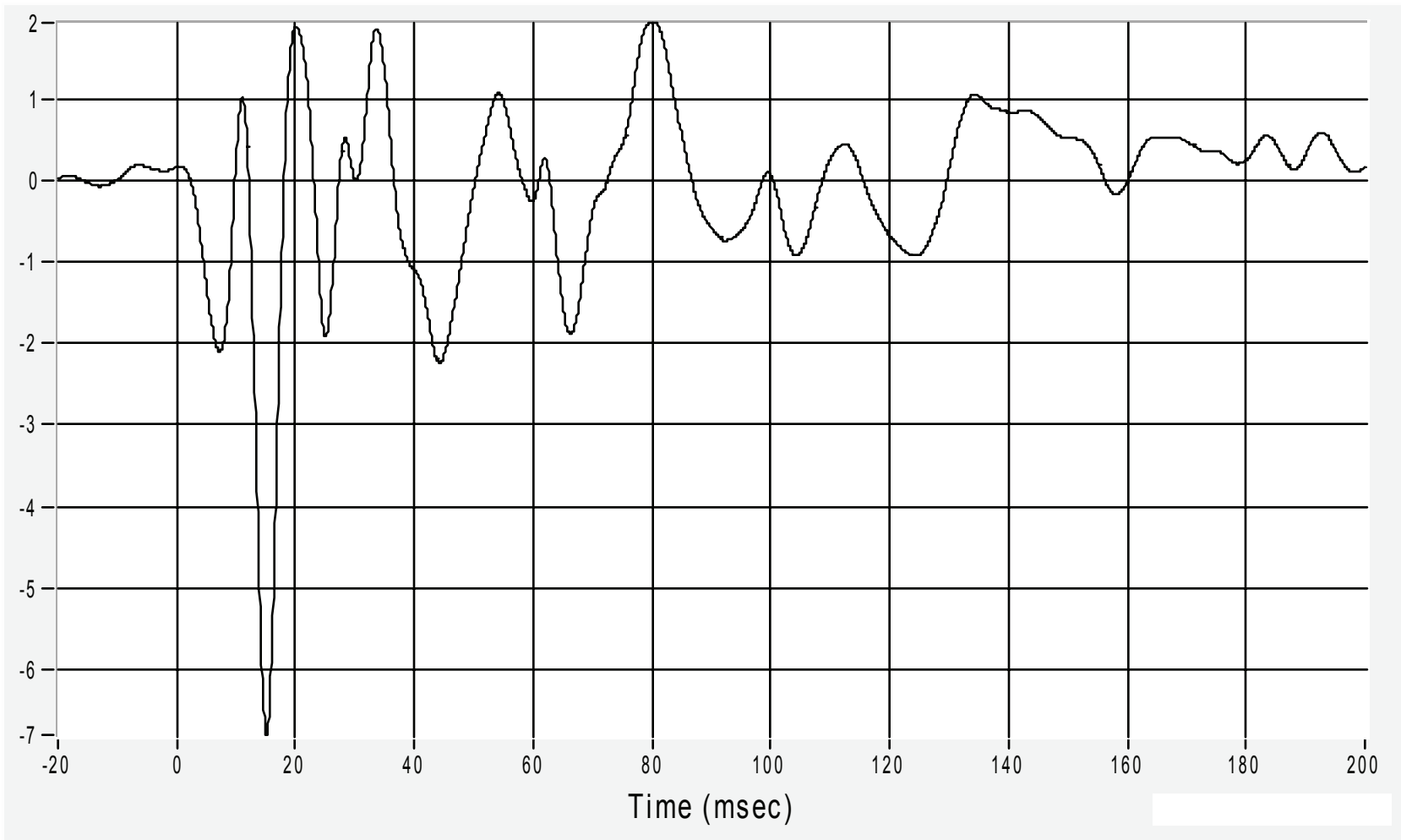
*Medical College of Wisconsin
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Right Side Sill at Front Seat (X) Acceleration

Acceleration (G's) CFC60

Max 1.9 G at 80.3 msec

Min -6.8 G at 15.1 msec



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22 August 2007

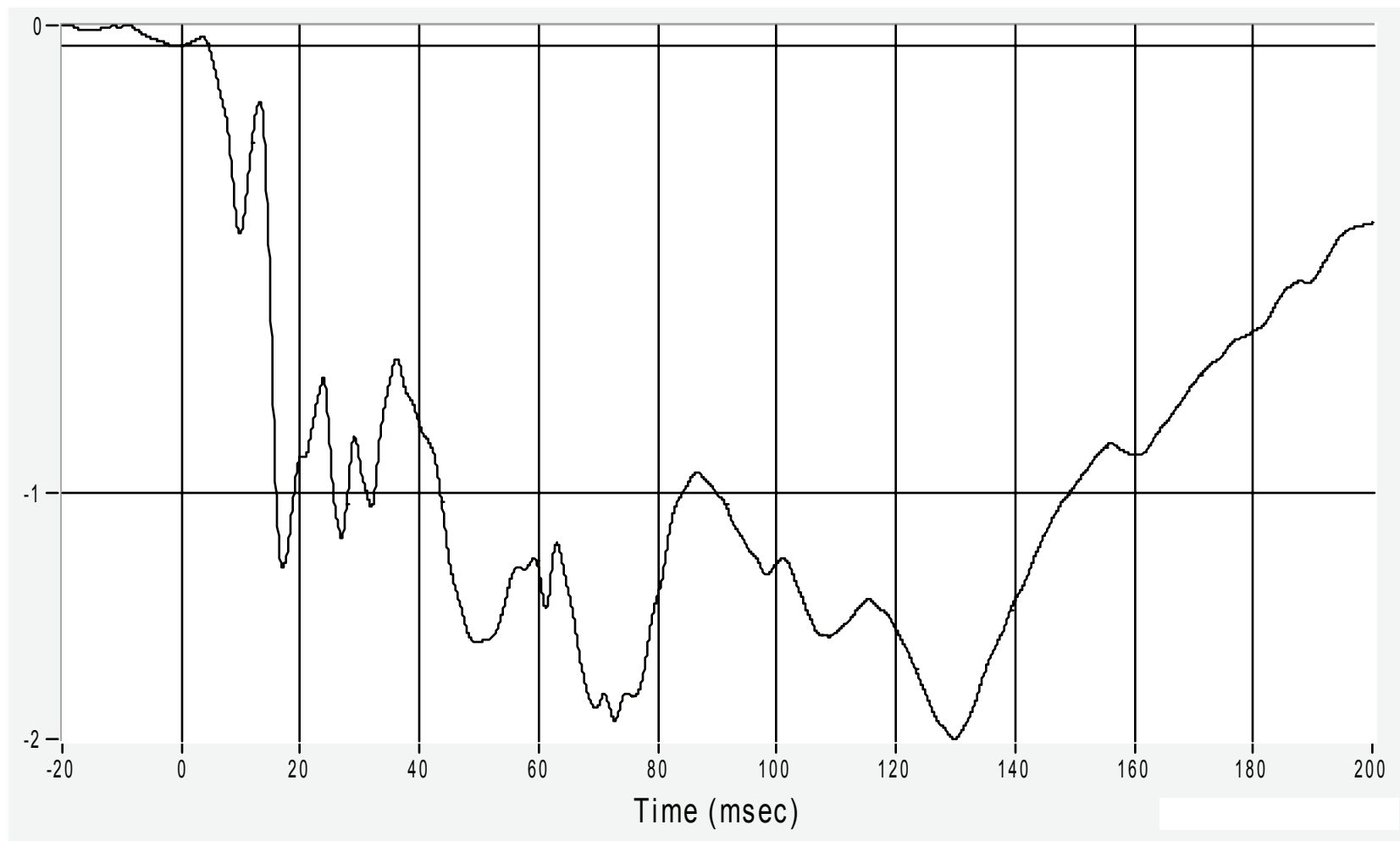
*Medical College of Wisconsin
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Right Side Sill at Front Seat (X) Velocity

Velocity (km/h) CFC180

Max 0.0 km/h at 3.4 msec

Min -1.6 km/h at 129.8 msec



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22 August 2007

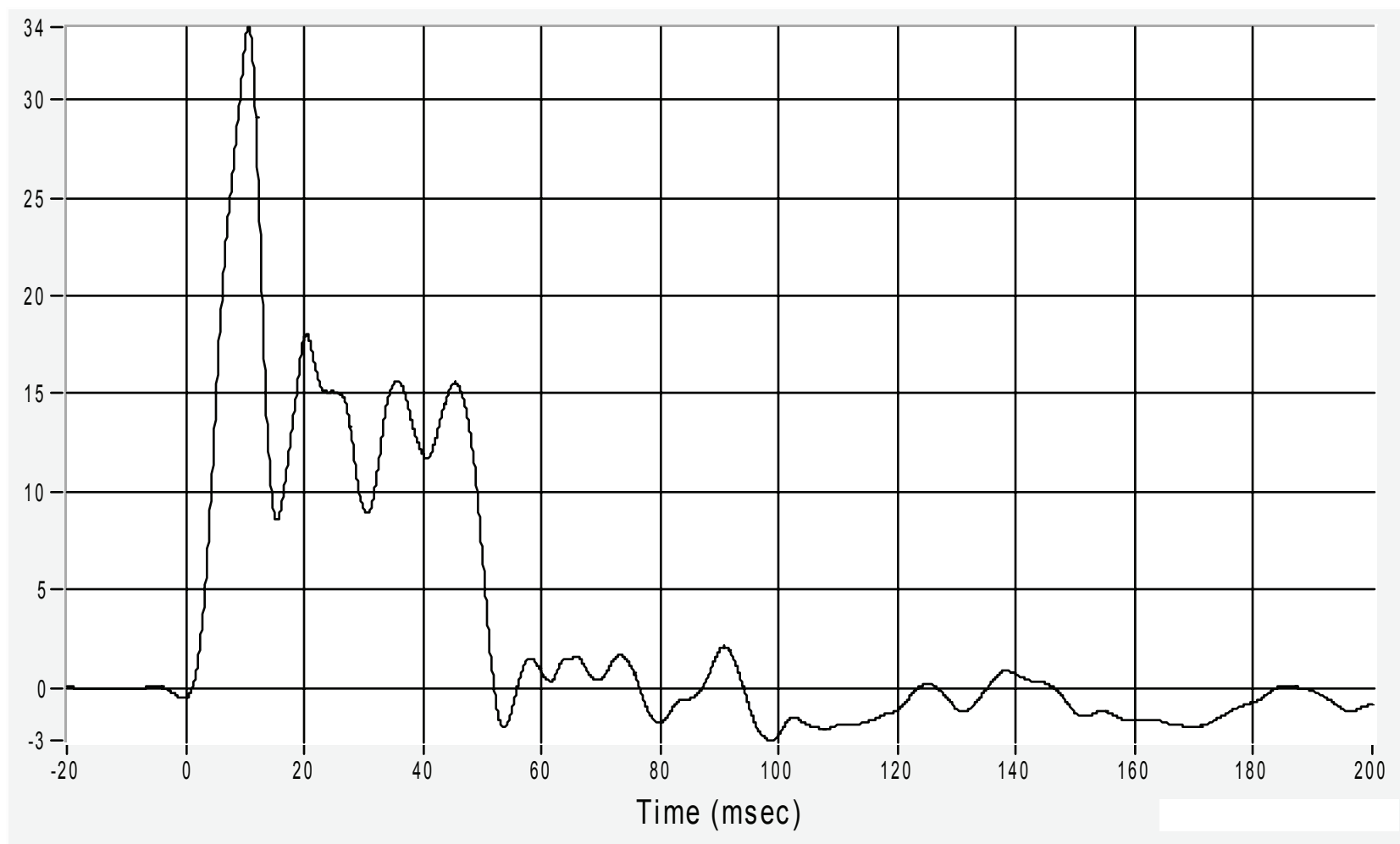
Medical College of Wisconsin
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Right Side Sill at Front Seat (Y) Acceleration

Acceleration (G's) CFC60

Max 33.7 G at 10.6 msec

Min -2.7 G at 98.6 msec



08SN01 - 2008 FORD MUSTANG 2-DOOR COUPE

22 August 2007

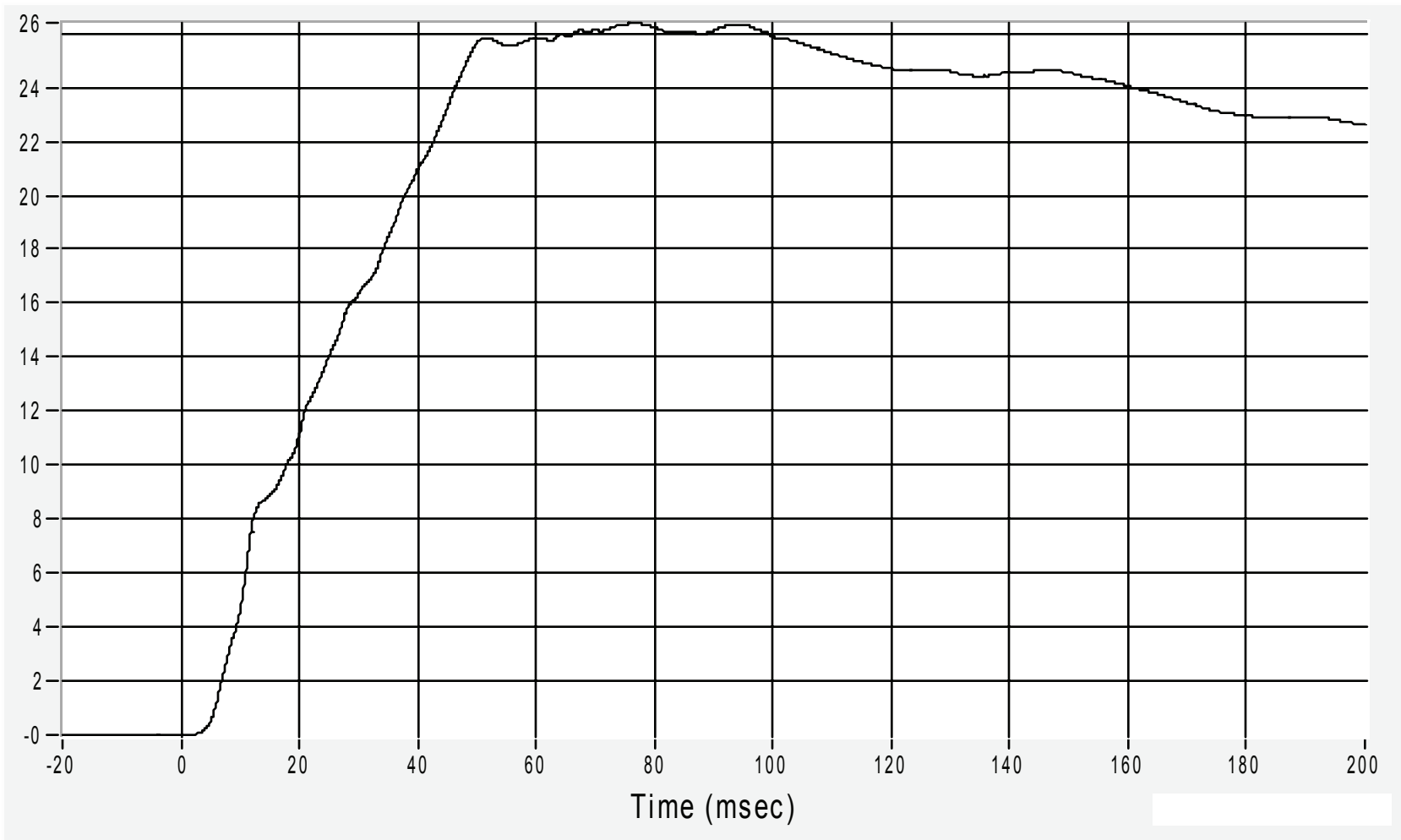
Medical College of Wisconsin
Vehicle Crashworthiness Lab

Right Side Sill at Front Seat (Y) Velocity

Velocity (km/h) CFC180

Max 26.4 km/h at 76.7 msec

Min 0.0 km/h at 0.9 msec



08SN01 - 2008 FORD MUSTANG 2-DOOR COUPE

22 August 2007

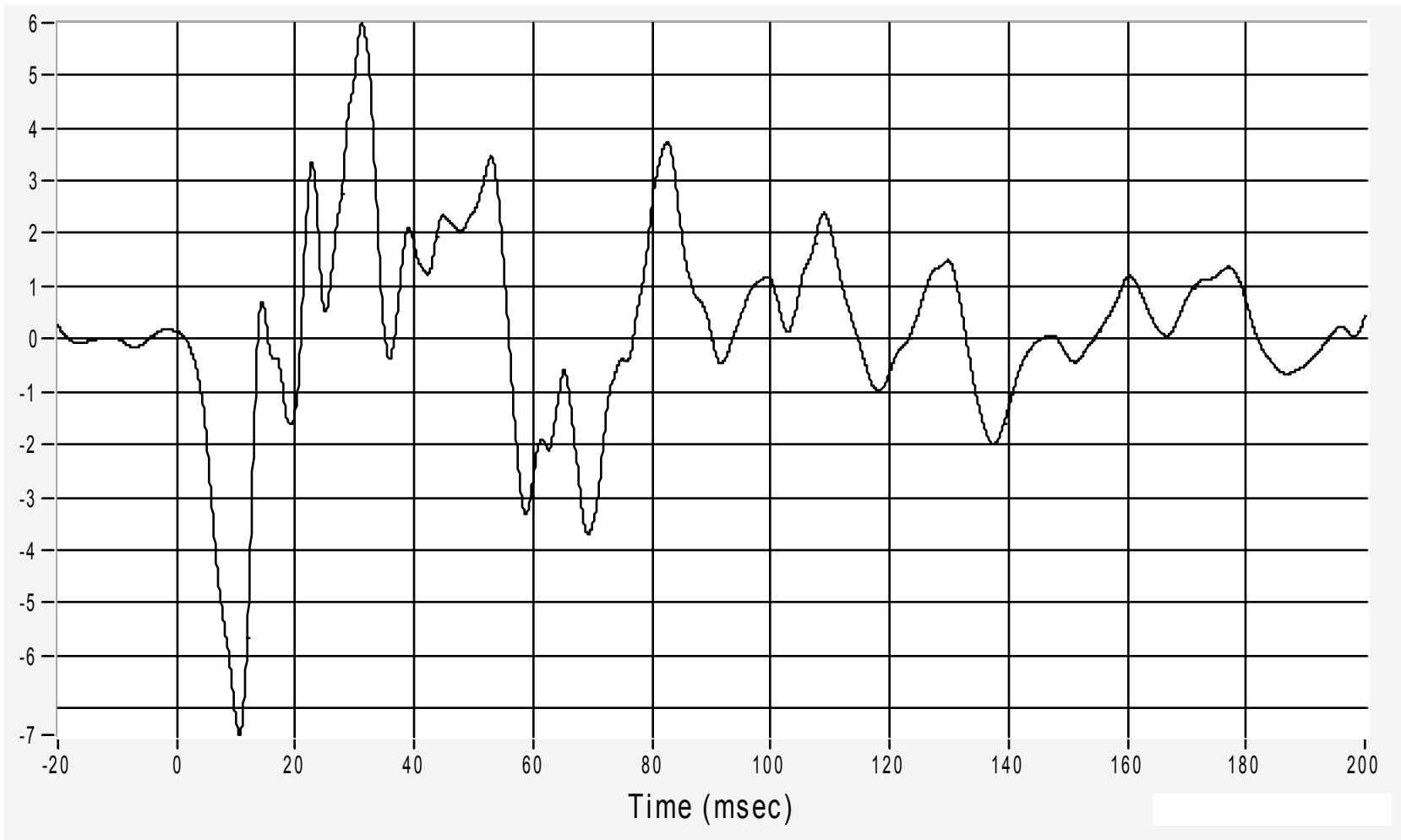
Medical College of Wisconsin
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Right Side Sill at Front Seat (Z) Acceleration

Acceleration (G's) CFC60

Max 6.0 G at 31.1 msec

Min -7.5 G at 10.6 msec



08SN01 - 2008 FORD MUSTANG 2-DOOR COUPE

22 August 2007

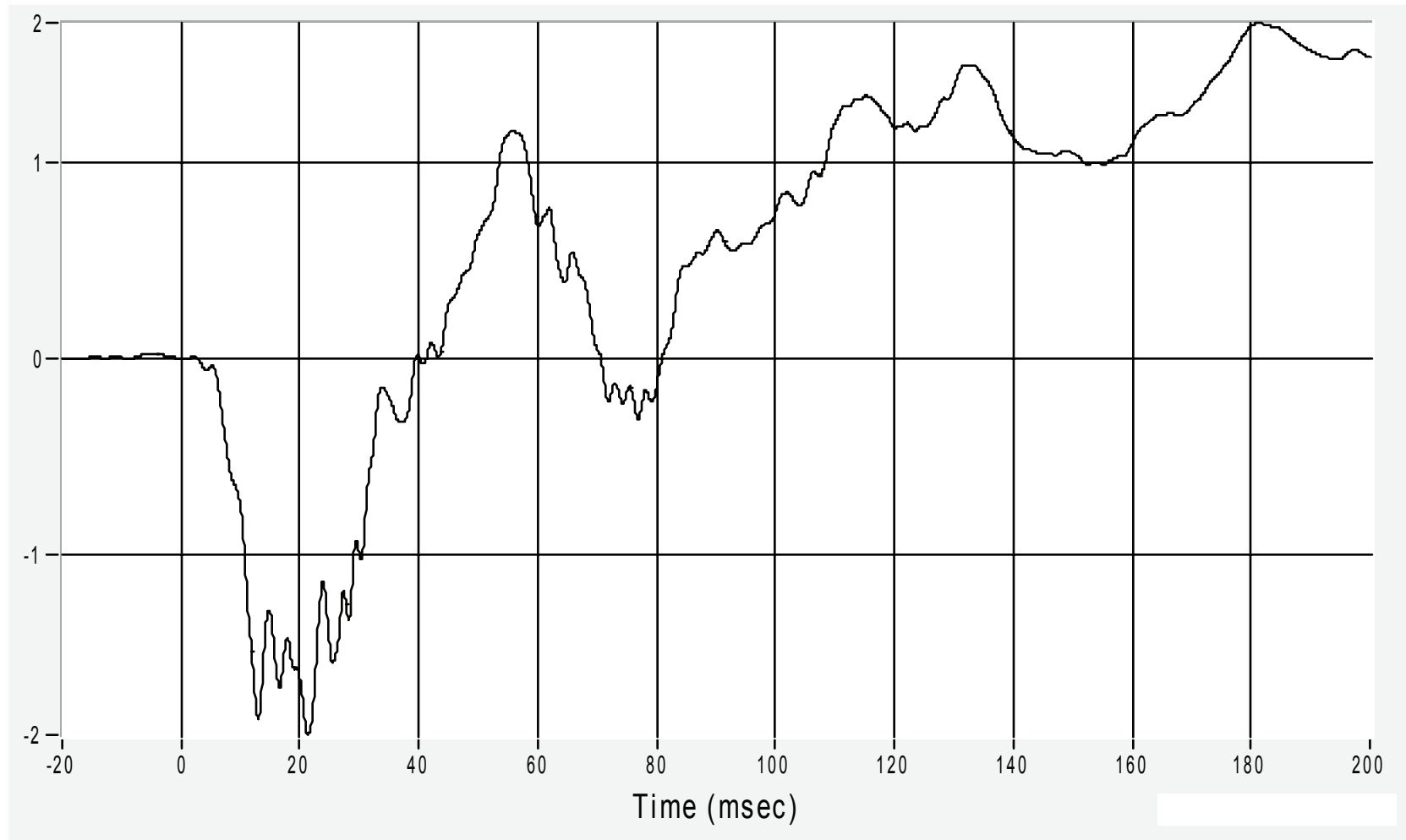
*Medical College of Wisconsin
Vehicle Crashworthiness Lab*

Right Side Sill at Front Seat (Z) Velocity

Velocity (km/h) CFC180

Max 1.7 km/h at 181.2 msec

Min -1.9 km/h at 21.4 msec



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22 August 2007

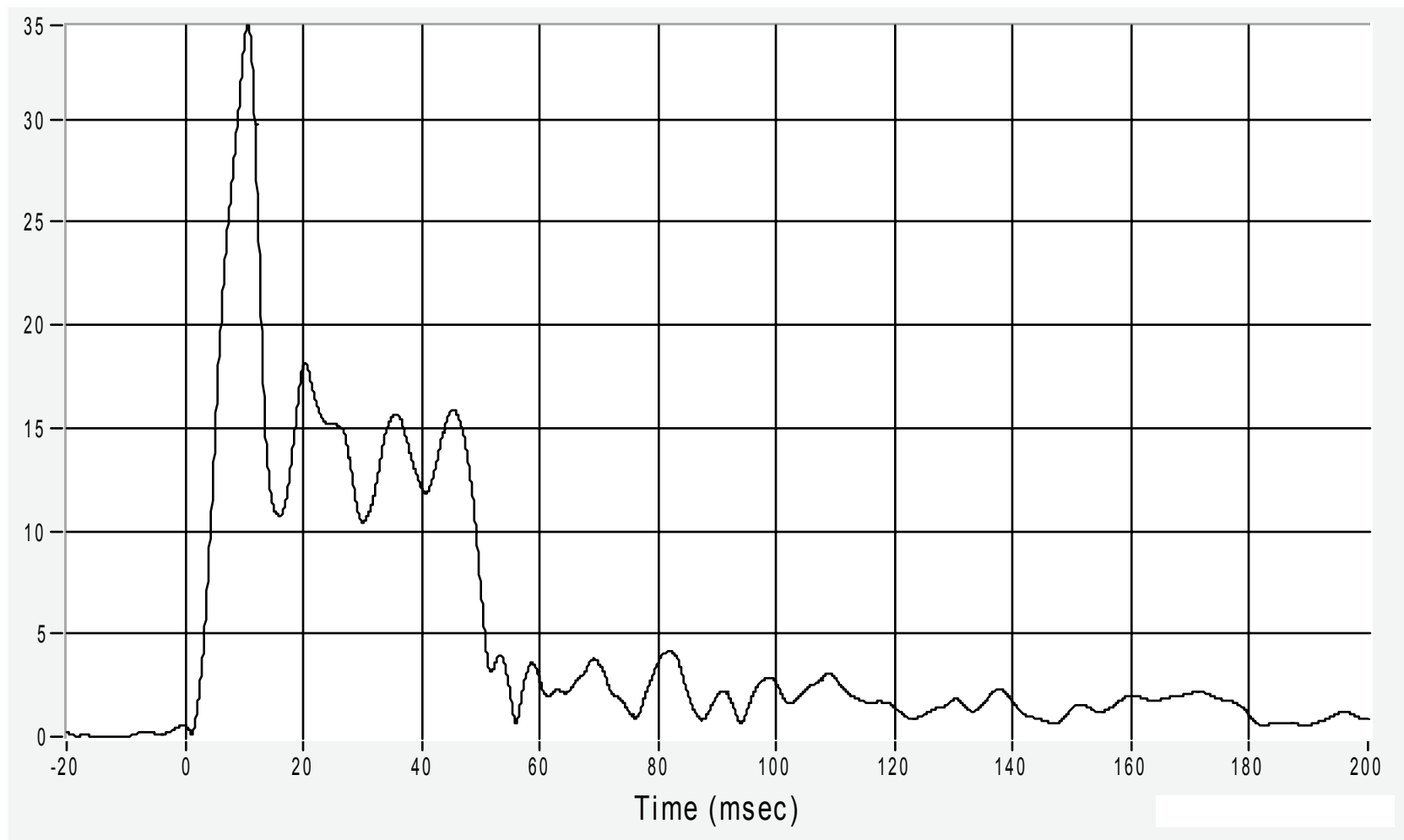
*Medical College of Wisconsin
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Right Side Sill at Front Seat Resultant Acceleration

Acceleration (G's) CFC60

Max 34.5 G's at 10.6 msec

Min 0.2 G's at 1.1 msec



08SN01 - 2008 FORD MUSTANG 2-DOOR COUPE

22 August 2007

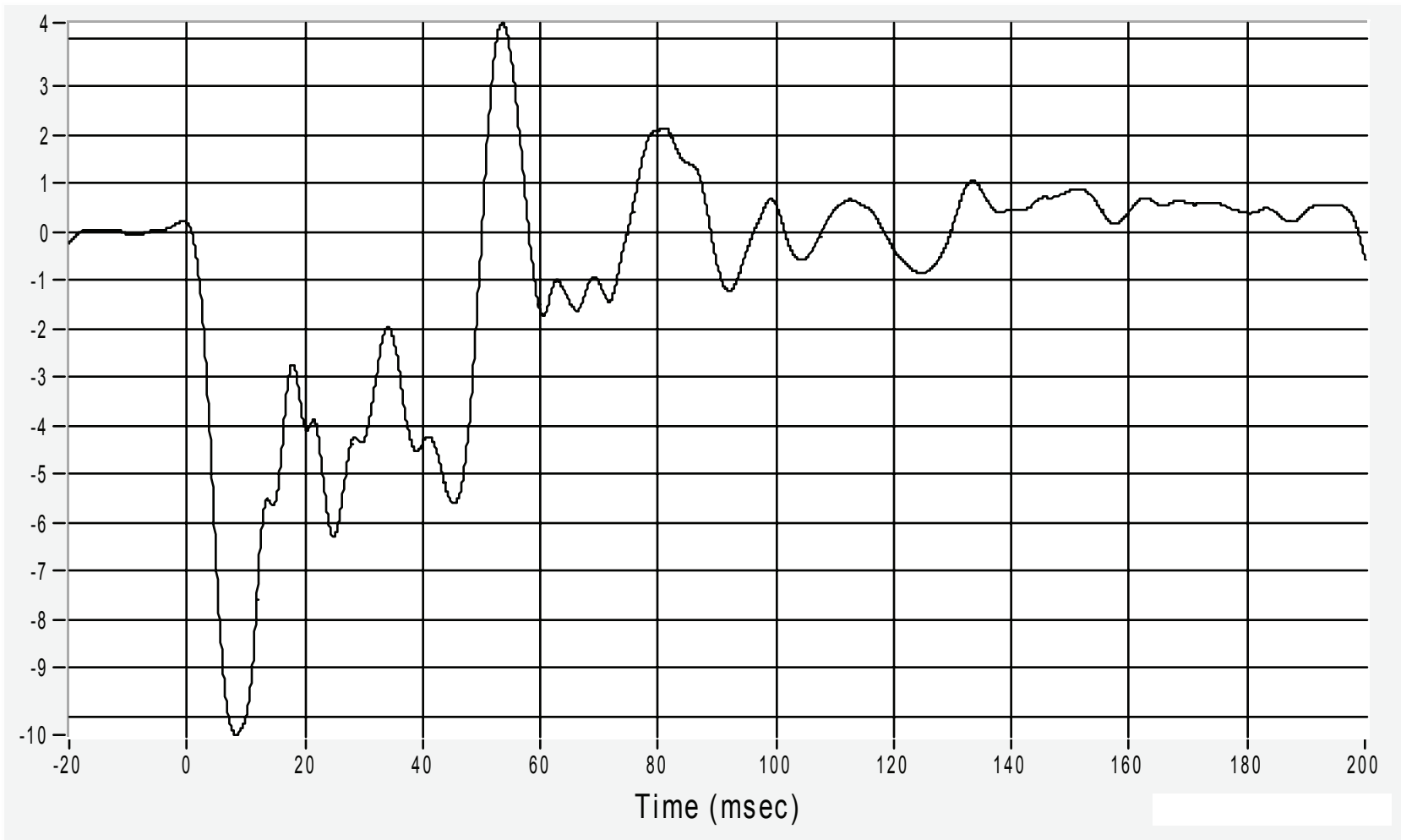
Medical College of Wisconsin
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Right Side Sill at Rear Seat (X) Acceleration

Acceleration (G's) CFC60

Max 4.3 G at 53.5 msec

Min -10.4 G at 8.3 msec



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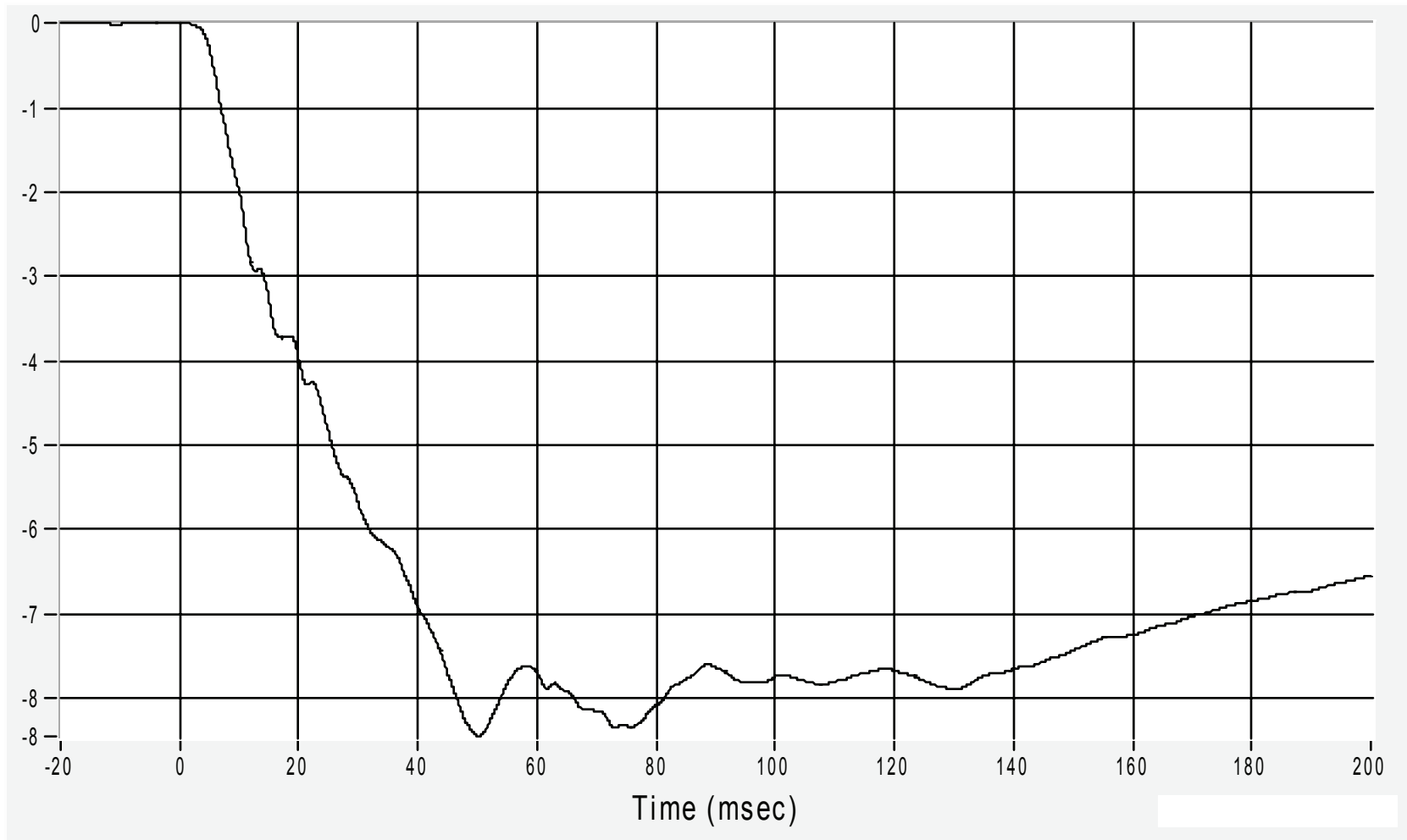
*Medical College of Wisconsin
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Right Side Sill at Rear Seat (X) Velocity

Velocity (km/h) CFC180

Max 0.0 km/h at 0.9 msec

Min -8.5 km/h at 50.2 msec



08SN01 - 2008 FORD MUSTANG 2-DOOR COUPE

22 August 2007

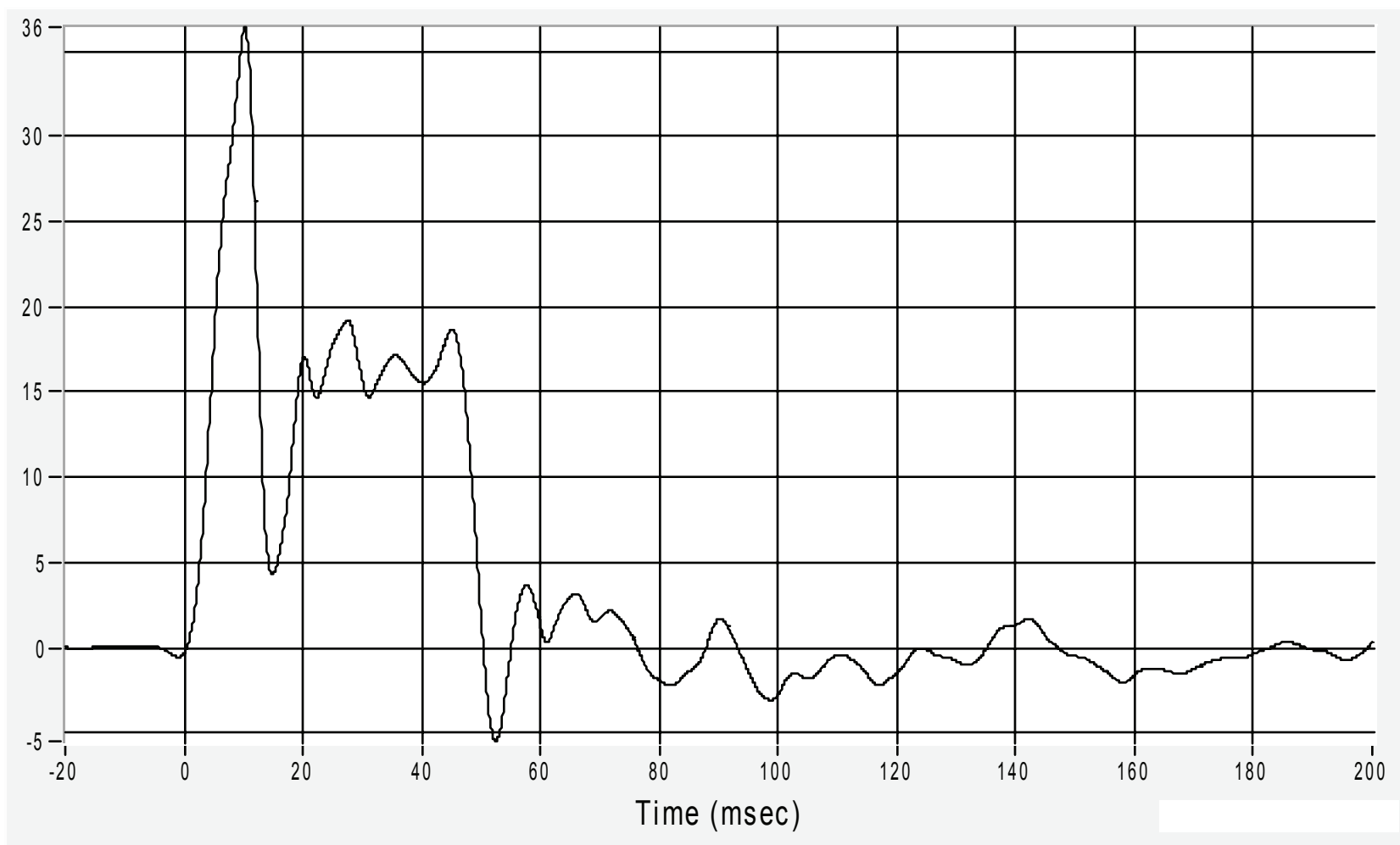
Medical College of Wisconsin
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Right Side Sill at Rear Seat (Y) Acceleration

Acceleration (G's) CFC60

Max 36.4 G at 10.2 msec

Min -5.5 G at 52.5 msec



08SN01 - 2008 FORD MUSTANG 2-DOOR COUPE

22 August 2007

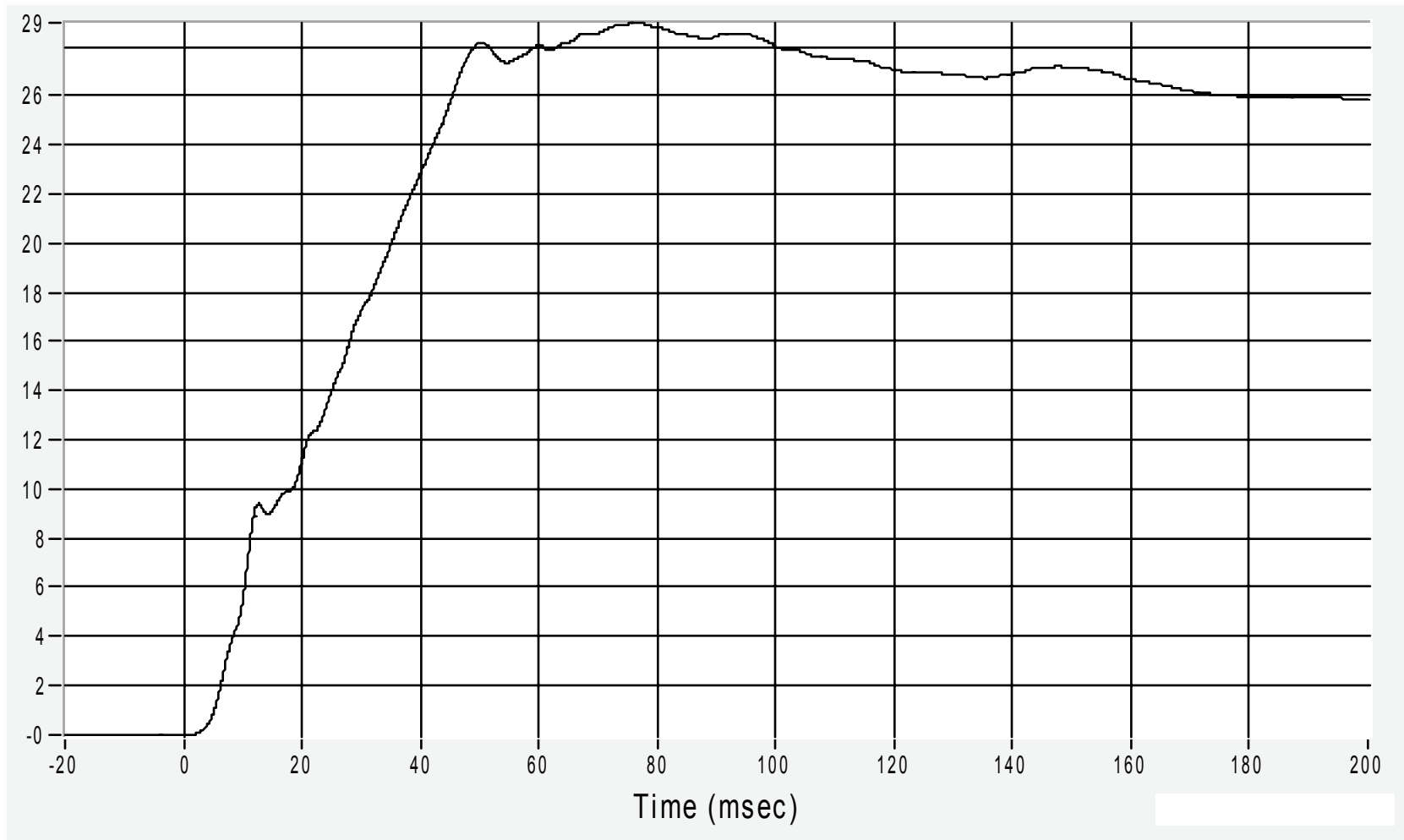
Medical College of Wisconsin
Vehicle Crashworthiness Lab

Right Side Sill at Rear Seat (Y) Velocity

Velocity (km/h) CFC180

Max 29.0 km/h at 76.6 msec

Min 0.0 km/h at 0.7 msec



08SN01 - 2008 FORD MUSTANG 2-DOOR COUPE

22 August 2007

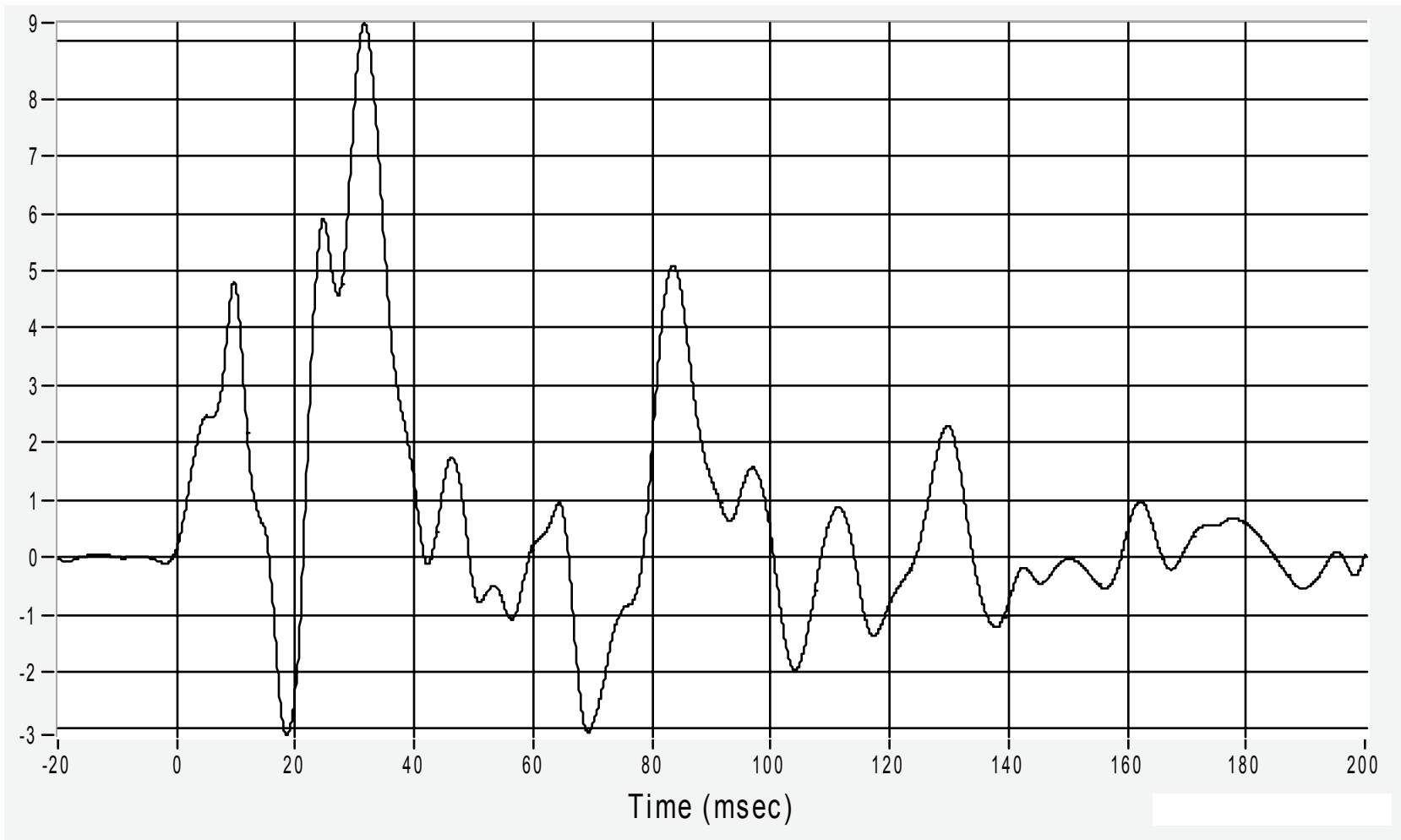
*Medical College of Wisconsin
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Right Side Sill at Rear Seat (Z) Acceleration

Acceleration (G's) CFC60

Max 9.3 G at 31.5 msec

Min -3.1 G at 18.4 msec



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22 August 2007

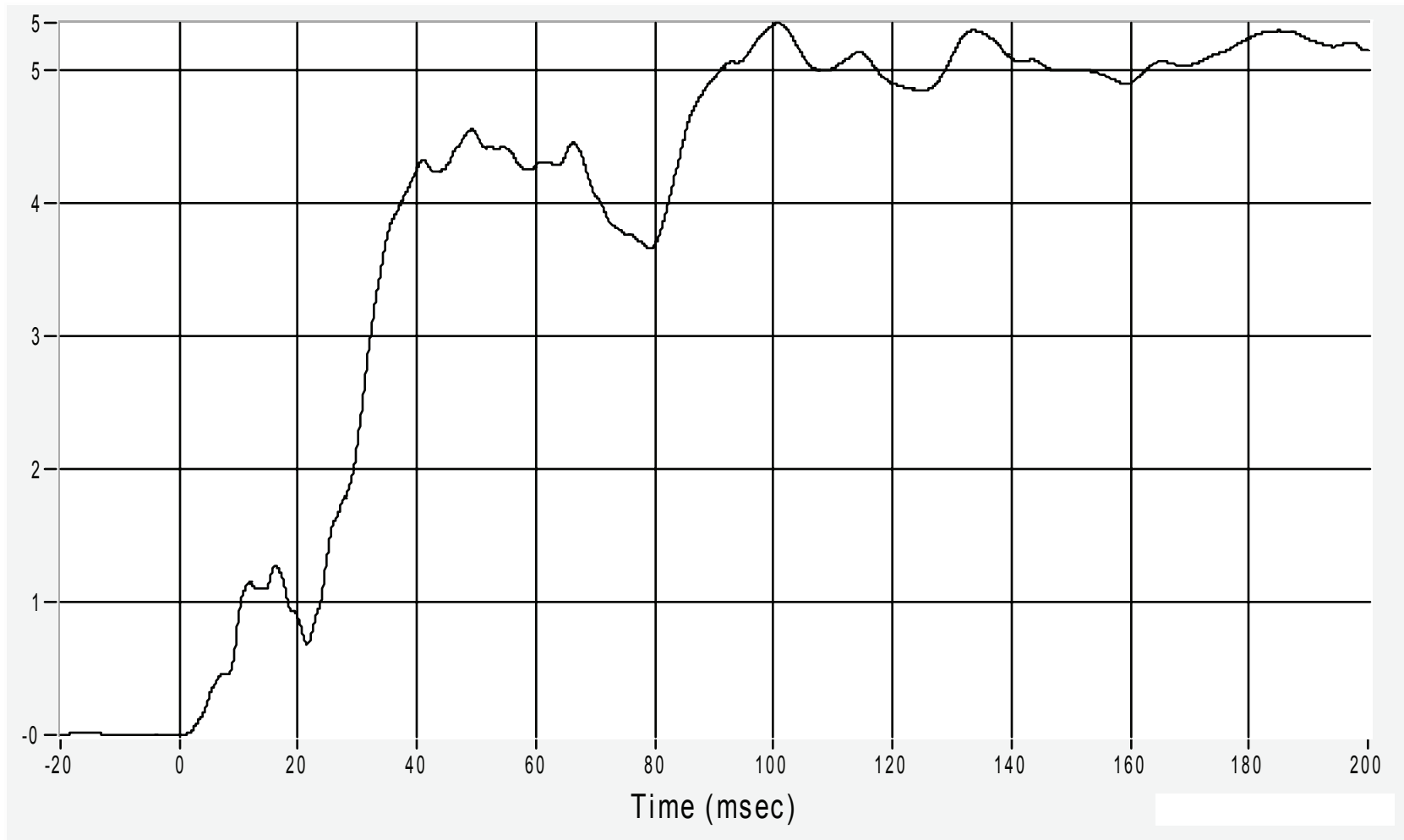
*Medical College of Wisconsin
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Right Side Sill at Rear Seat (Z) Velocity

Velocity (km/h) CFC180

Max 5.4 km/h at 100.6 msec

Min 0.0 km/h at 0.7 msec



08SN01 - 2008 FORD MUSTANG 2-DOOR COUPE

22 August 2007

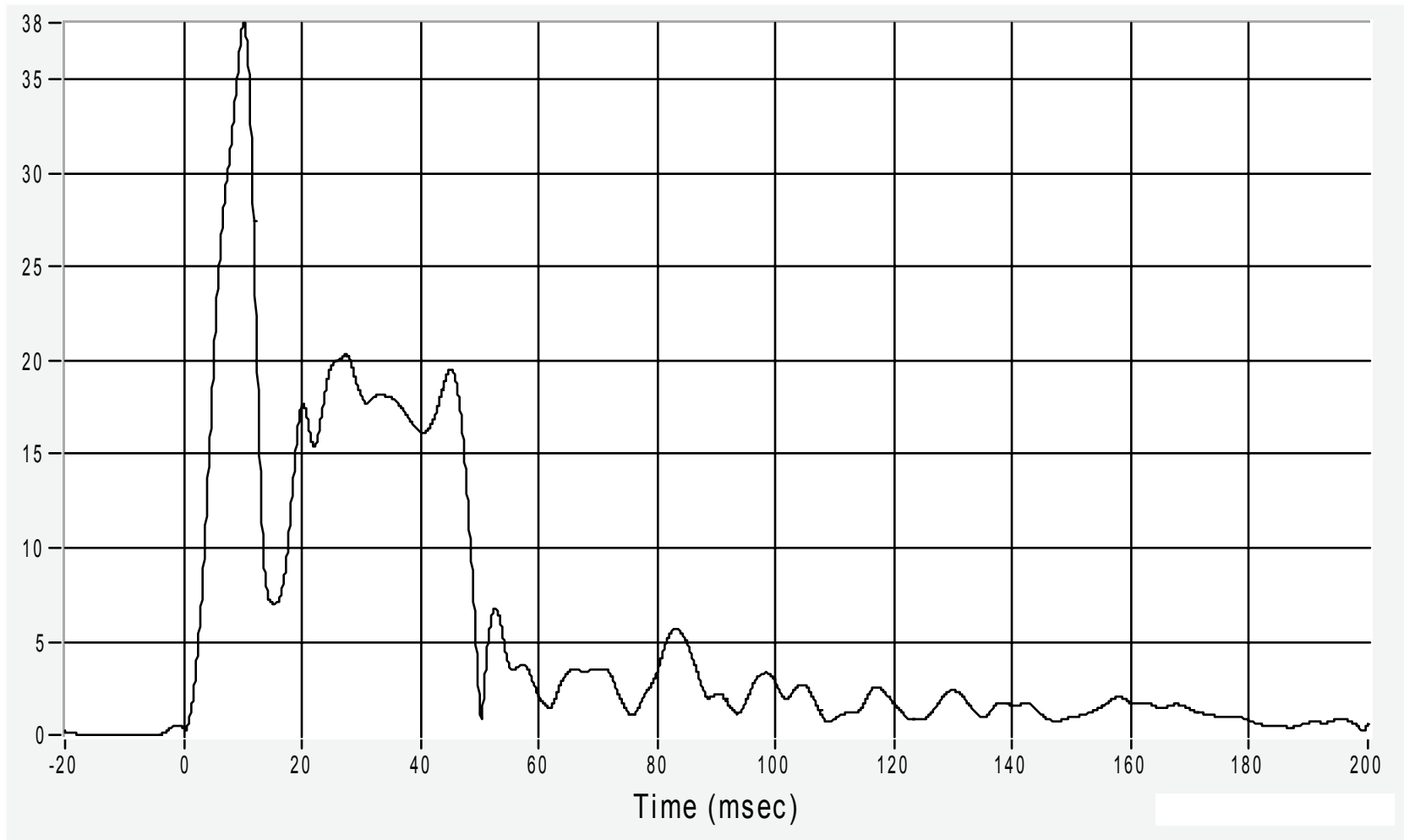
Medical College of Wisconsin
Vehicle Crashworthiness Lab

Right Side Sill at Rear Seat Resultant Acceleration

Acceleration (G's) CFC60

Max 38.0 G's at 10.2 msec

Min 0.3 G's at 199.1 msec



08SN01 - 2008 FORD MUSTANG 2-DOOR COUPE

22 August 2007

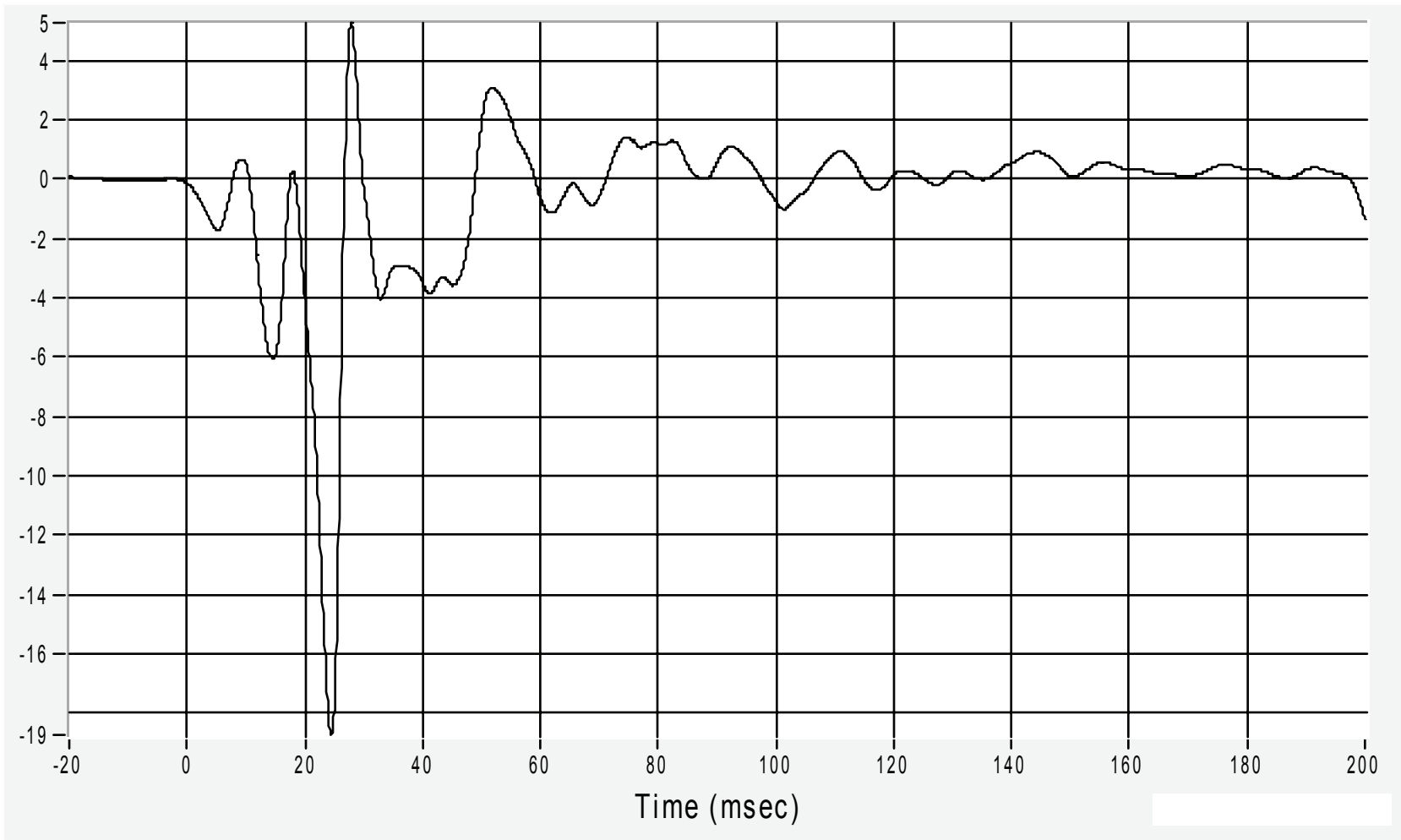
*Medical College of Wisconsin
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Rear Floorpan Above Axle (X) Acceleration

Acceleration (G's) CFC60

Max 5.3 G at 27.8 msec

Min -18.7 G at 24.5 msec



08SN01 - 2008 FORD MUSTANG 2-DOOR COUPE
22 August 2007

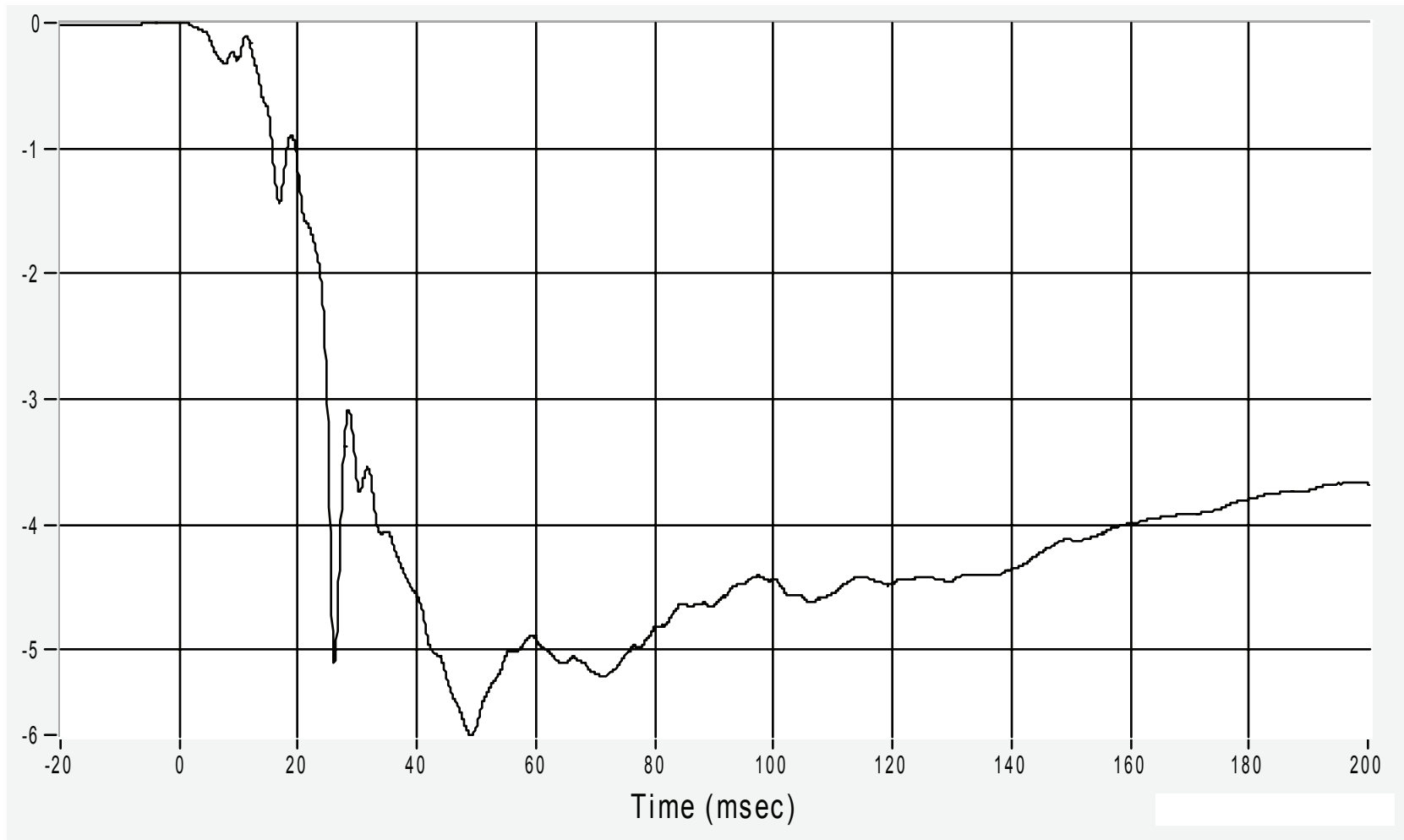
*Medical College of Wisconsin
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Rear Floorpan Above Axle (X) Velocity

Velocity (km/h) CFC180

Max 0.0 km/h at 0.0 msec

Min -5.7 km/h at 49.0 msec



08SN01 - 2008 FORD MUSTANG 2-DOOR COUPE

22 August 2007

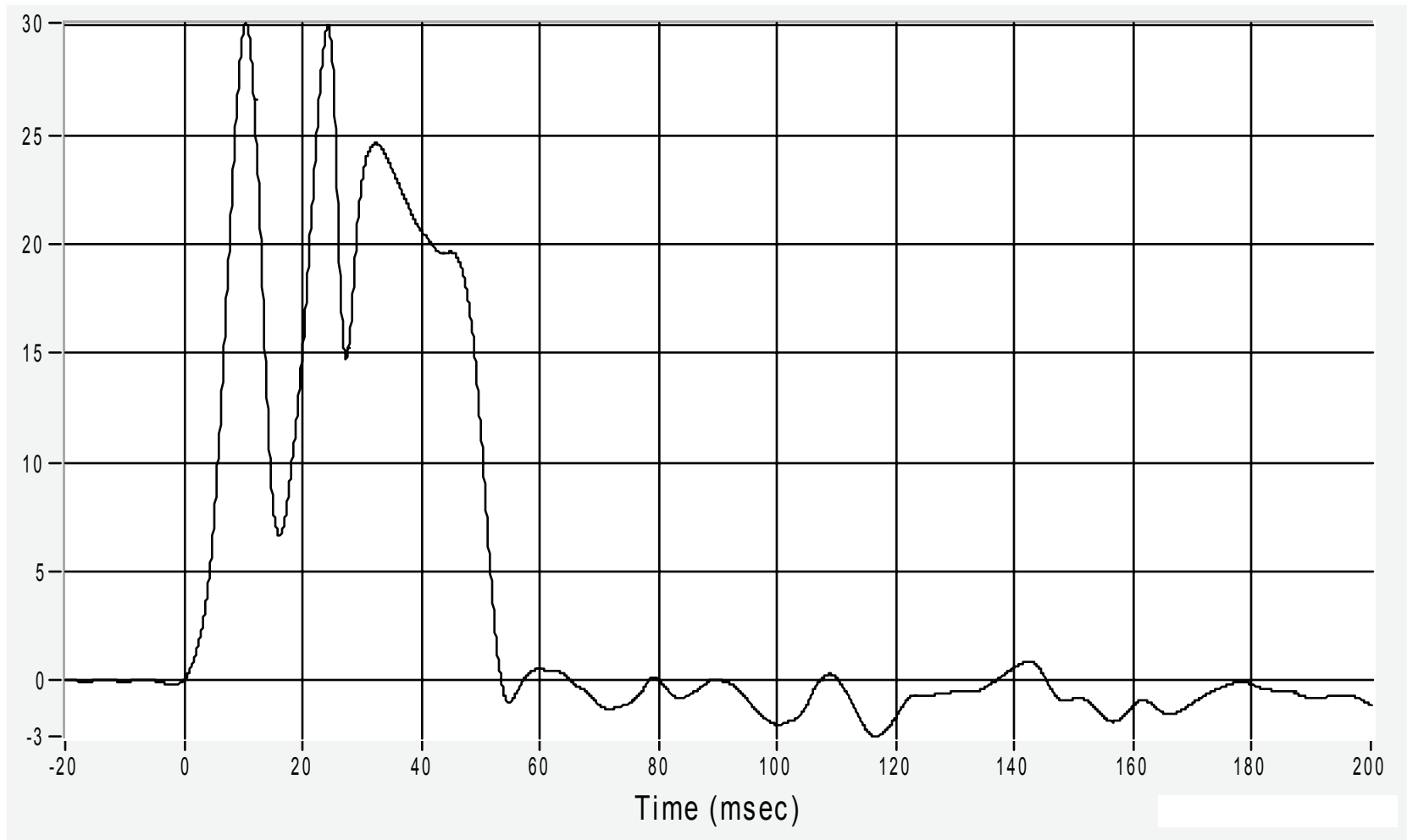
*Medical College of Wisconsin
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Rear Floorpan Above Axle (Y) Acceleration

Acceleration (G's) CFC60

Max 30.1 G at 10.4 msec

Min -2.5 G at 116.6 msec



08SN01 - 2008 FORD MUSTANG 2-DOOR COUPE

22 August 2007

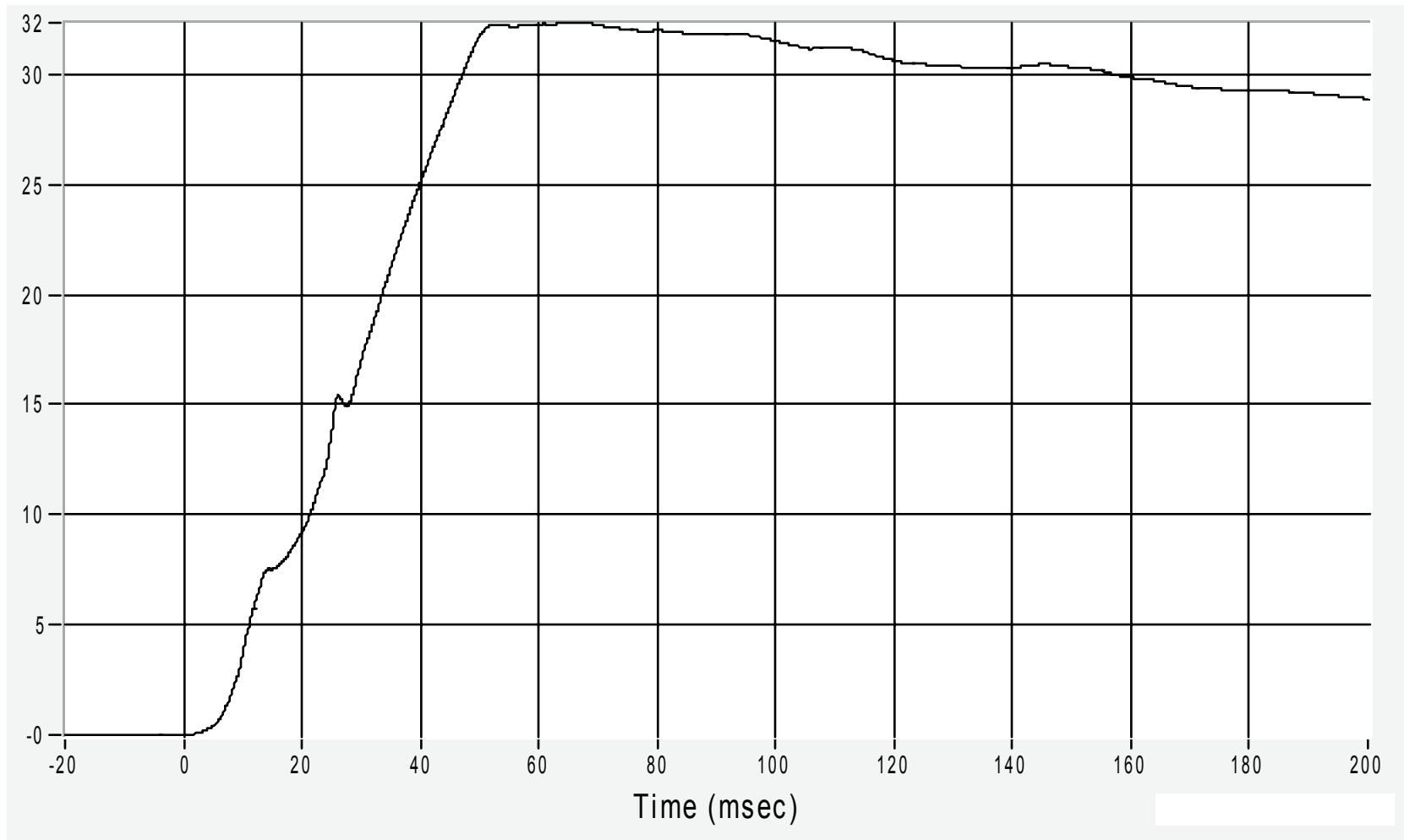
*Medical College of Wisconsin
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Rear Floorpan Above Axle (Y) Velocity

Velocity (km/h) CFC180

Max 32.4 km/h at 65.1 msec

Min 0.0 km/h at 0.4 msec



08SN01 - 2008 FORD MUSTANG 2-DOOR COUPE
22 August 2007

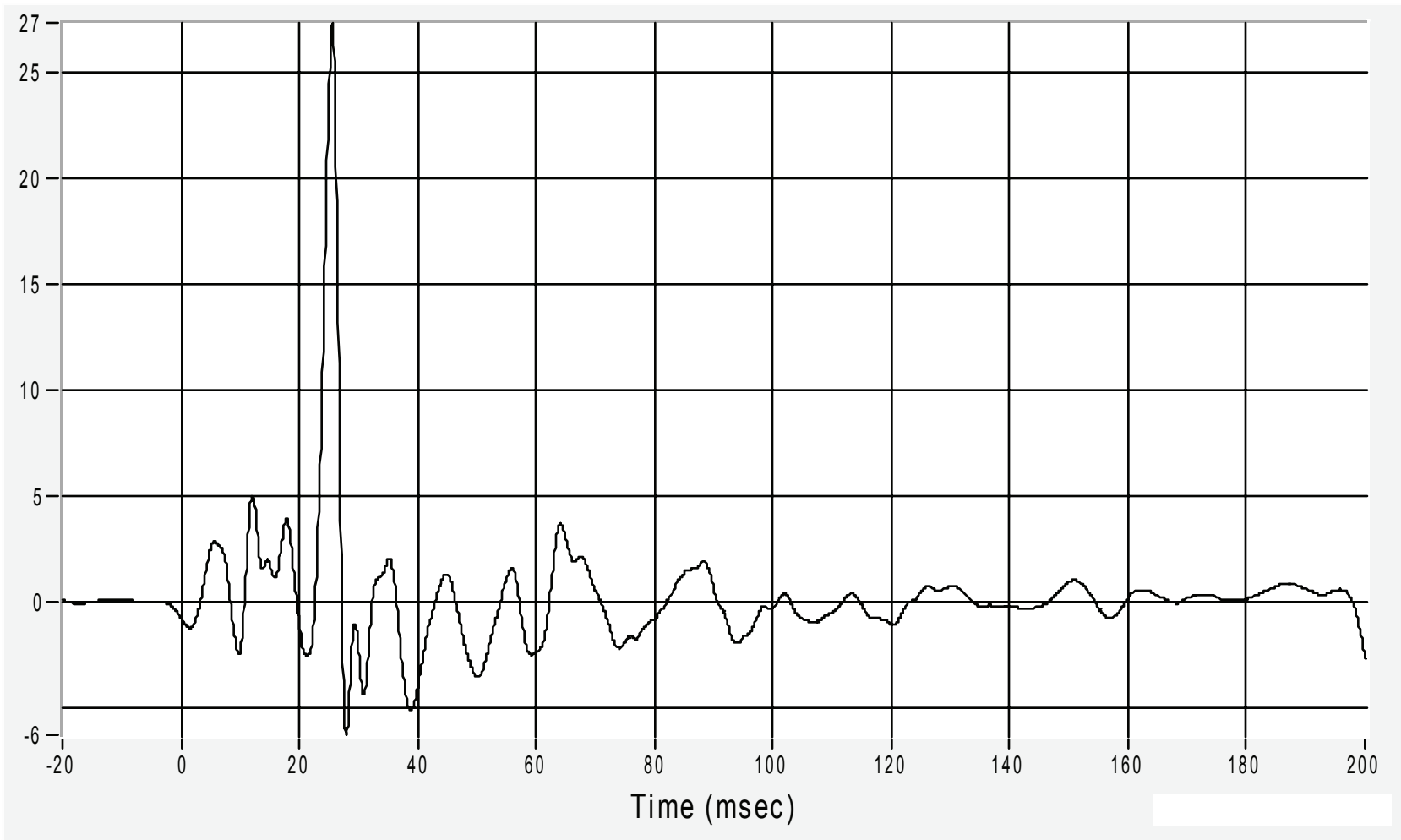
*Medical College of Wisconsin
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Rear Floorpan Above Axle (Z) Acceleration

Acceleration (G's) CFC60

Max 27.4 G at 25.6 msec

Min -6.3 G at 27.9 msec



08SN01 - 2008 FORD MUSTANG 2-DOOR COUPE

22 August 2007

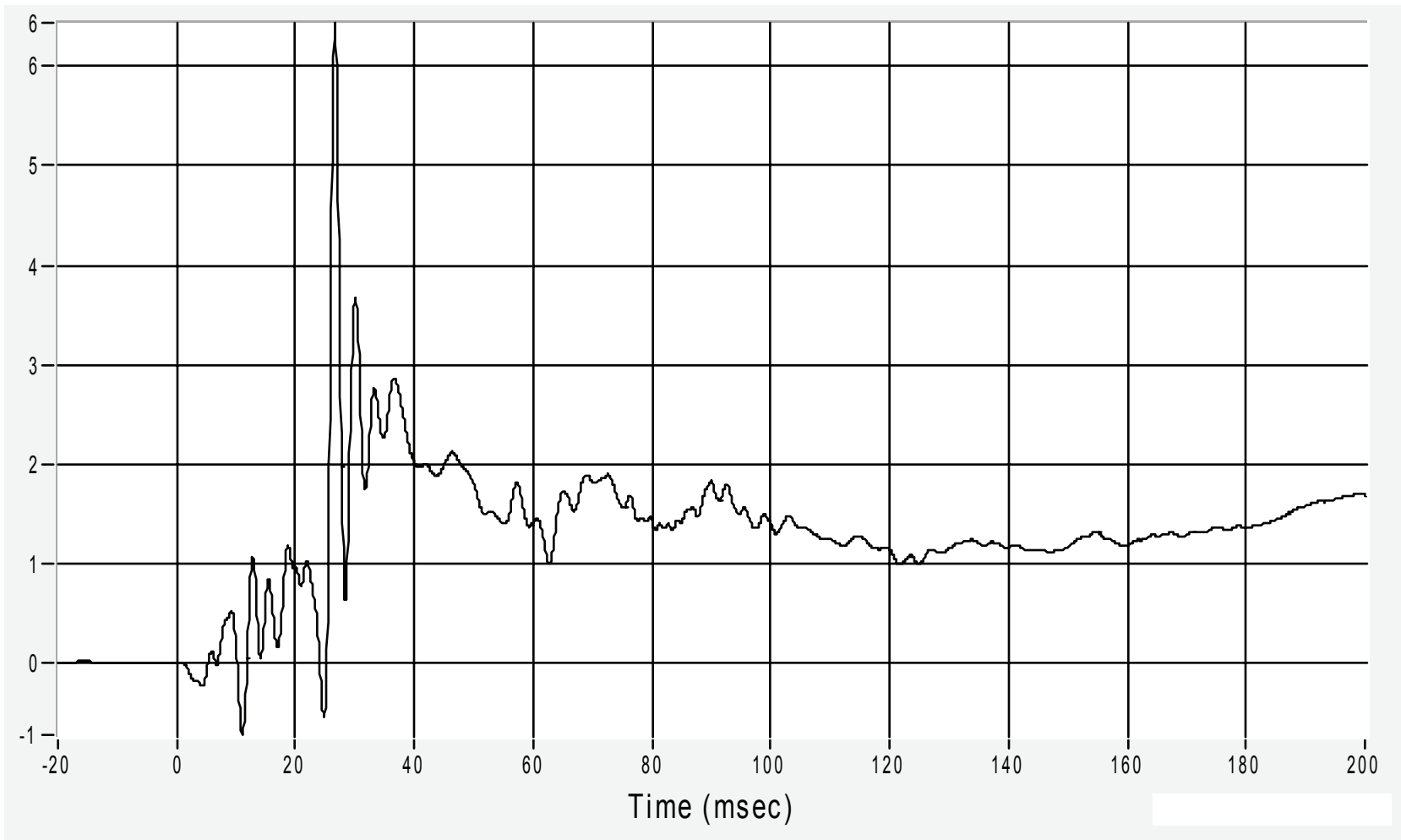
*Medical College of Wisconsin
Vehicle Crashworthiness Lab*

Rear Floorpan Above Axle (Z) Velocity

Velocity (km/h) CFC180

Max 6.4 km/h at 26.6 msec

Min -0.7 km/h at 11.0 msec



08SN01 - 2008 FORD MUSTANG 2-DOOR COUPE
22 August 2007

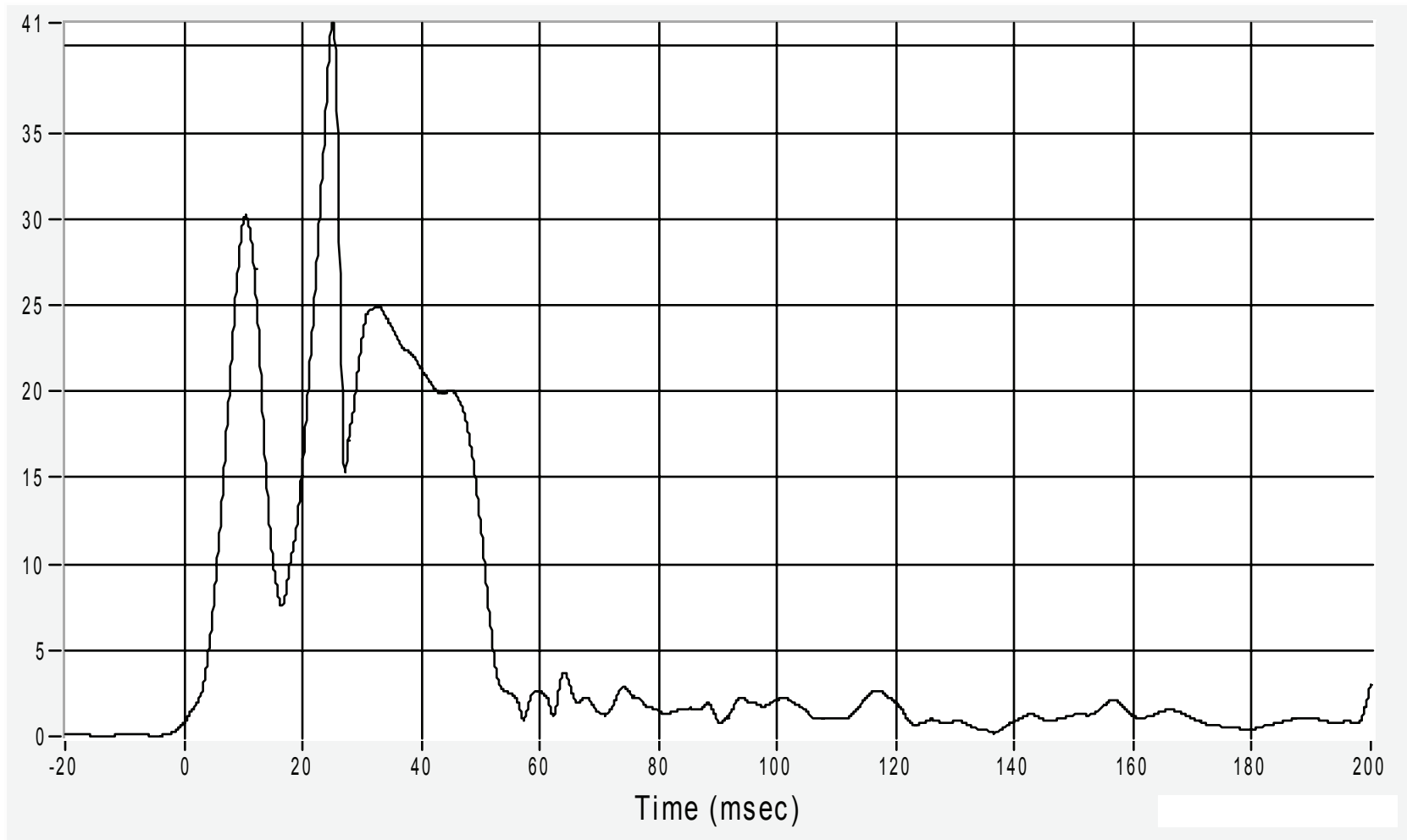
*Medical College of Wisconsin
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Rear Floorpan Above Axle Resultant Acceleration

Acceleration (G's) CFC60

Max 41.4 G's at 25.1 msec

Min 0.2 G's at 136.6 msec



08SN01 - 2008 FORD MUSTANG 2-DOOR COUPE

22 August 2007

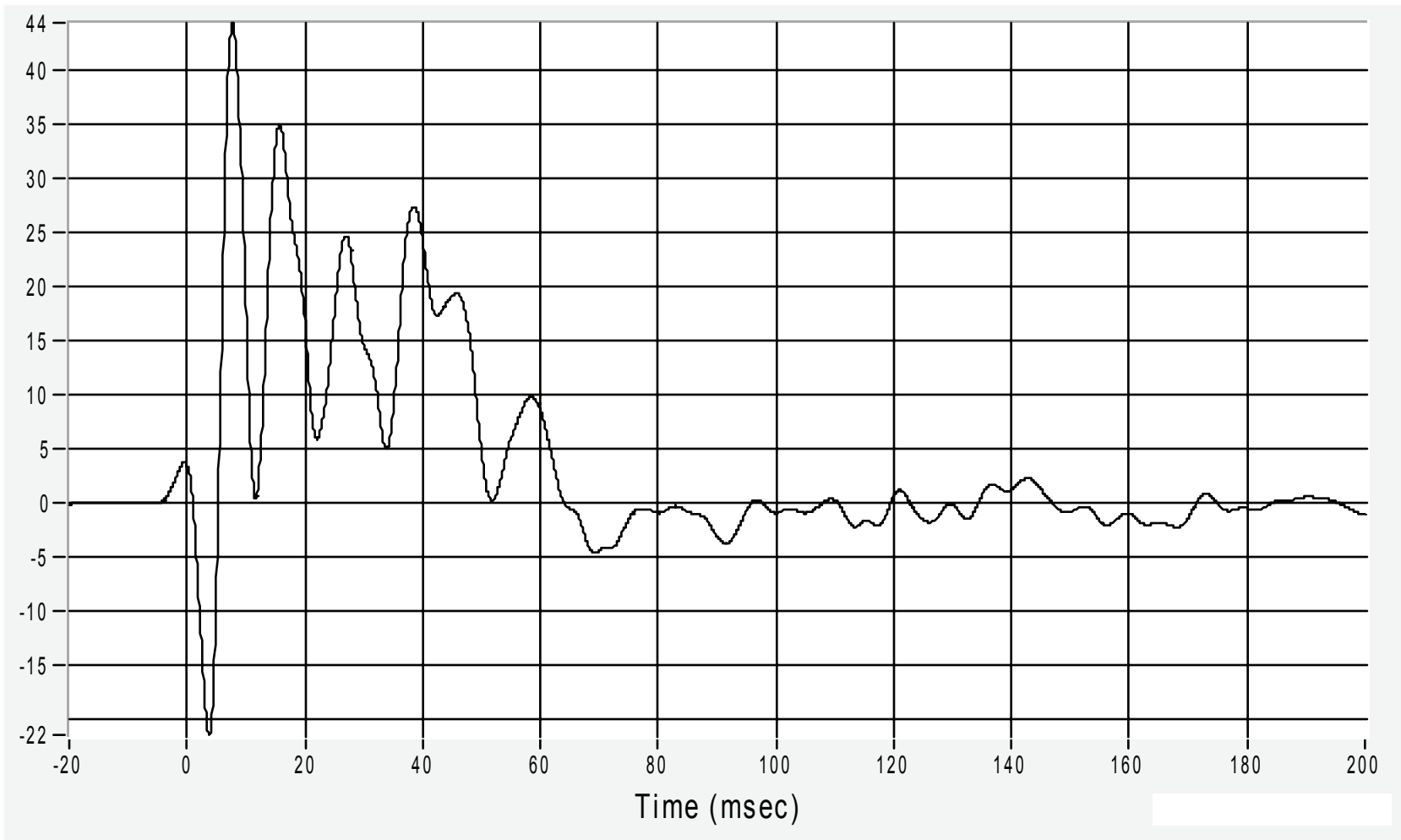
*Medical College of Wisconsin
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Left Side Sill at Rear Seat (Y) Acceleration

Acceleration (G's) CFC60

Max 44.5 G at 7.7 msec

Min -21.6 G at 3.8 msec



08SN01 - 2008 FORD MUSTANG 2-DOOR COUPE
22 August 2007

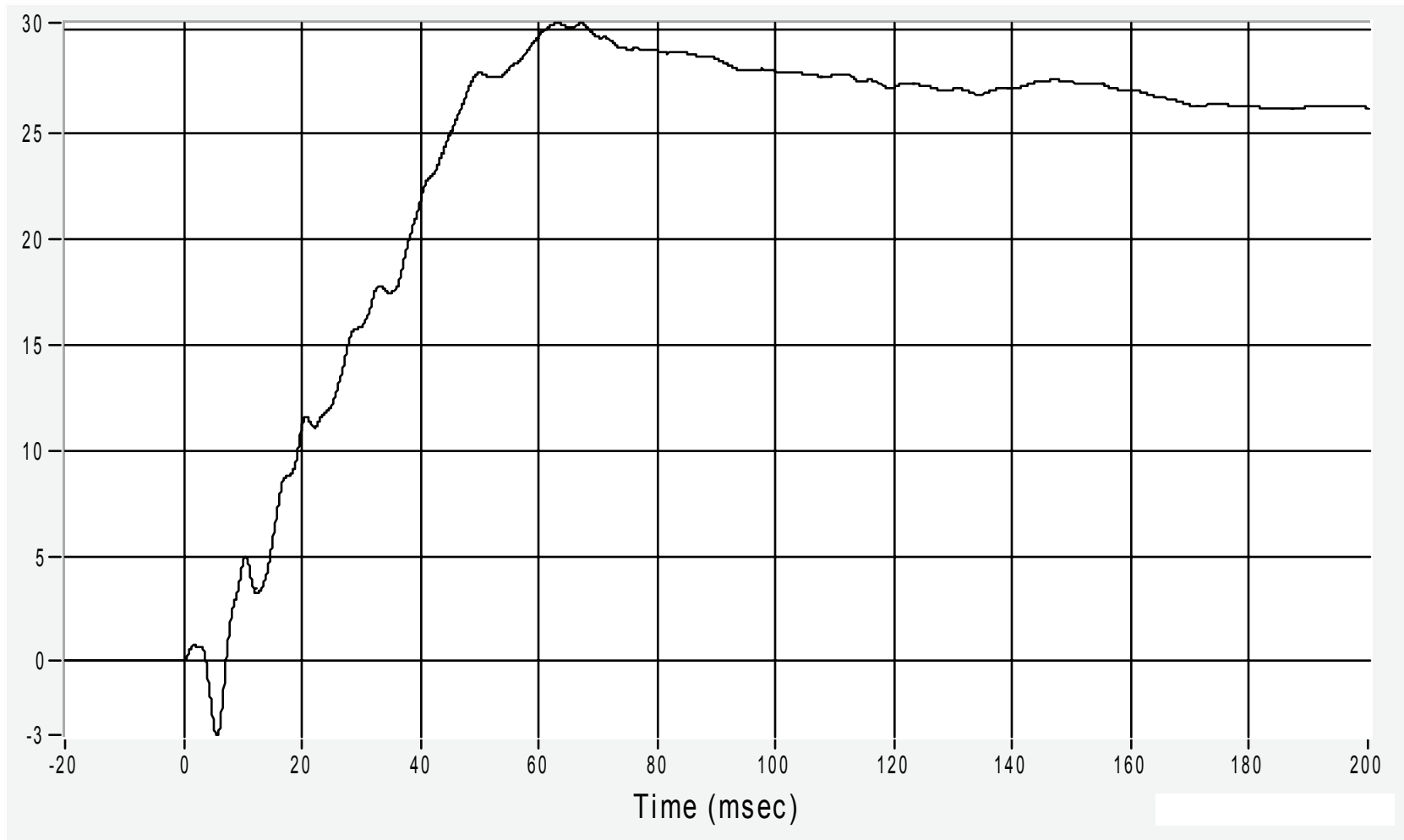
*Medical College of Wisconsin
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Left Side Sill at Rear Seat (Y) Velocity

Velocity (km/h) CFC180

Max 30.3 km/h at 67.1 msec

Min -3.5 km/h at 5.7 msec



08SN01 - 2008 FORD MUSTANG 2-DOOR COUPE

22 August 2007

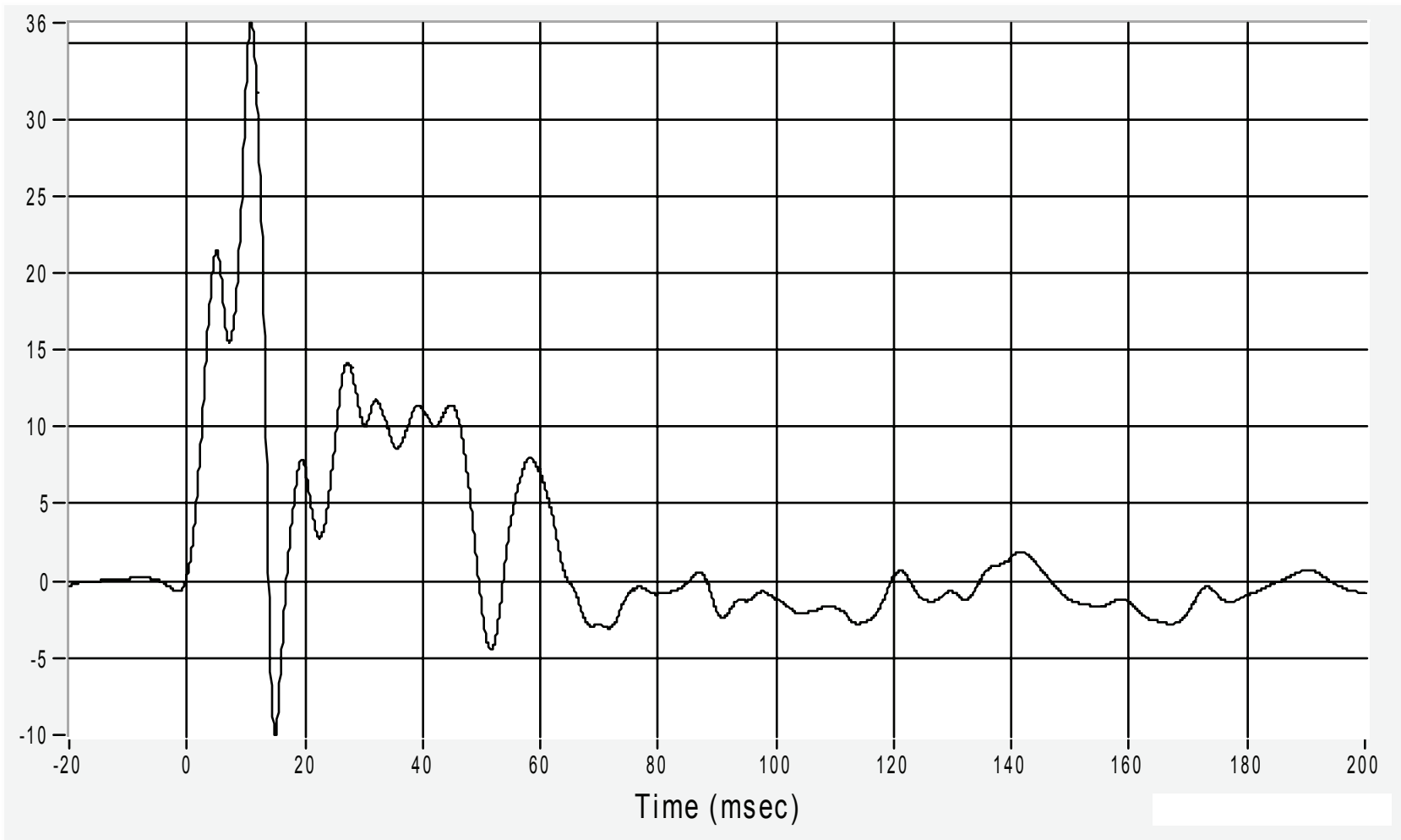
*Medical College of Wisconsin
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Left Side Sill at Front Seat (Y) Acceleration

Acceleration (G's) CFC60

Max 36.4 G at 10.9 msec

Min -10.1 G at 15.0 msec



08SN01 - 2008 FORD MUSTANG 2-DOOR COUPE

22 August 2007

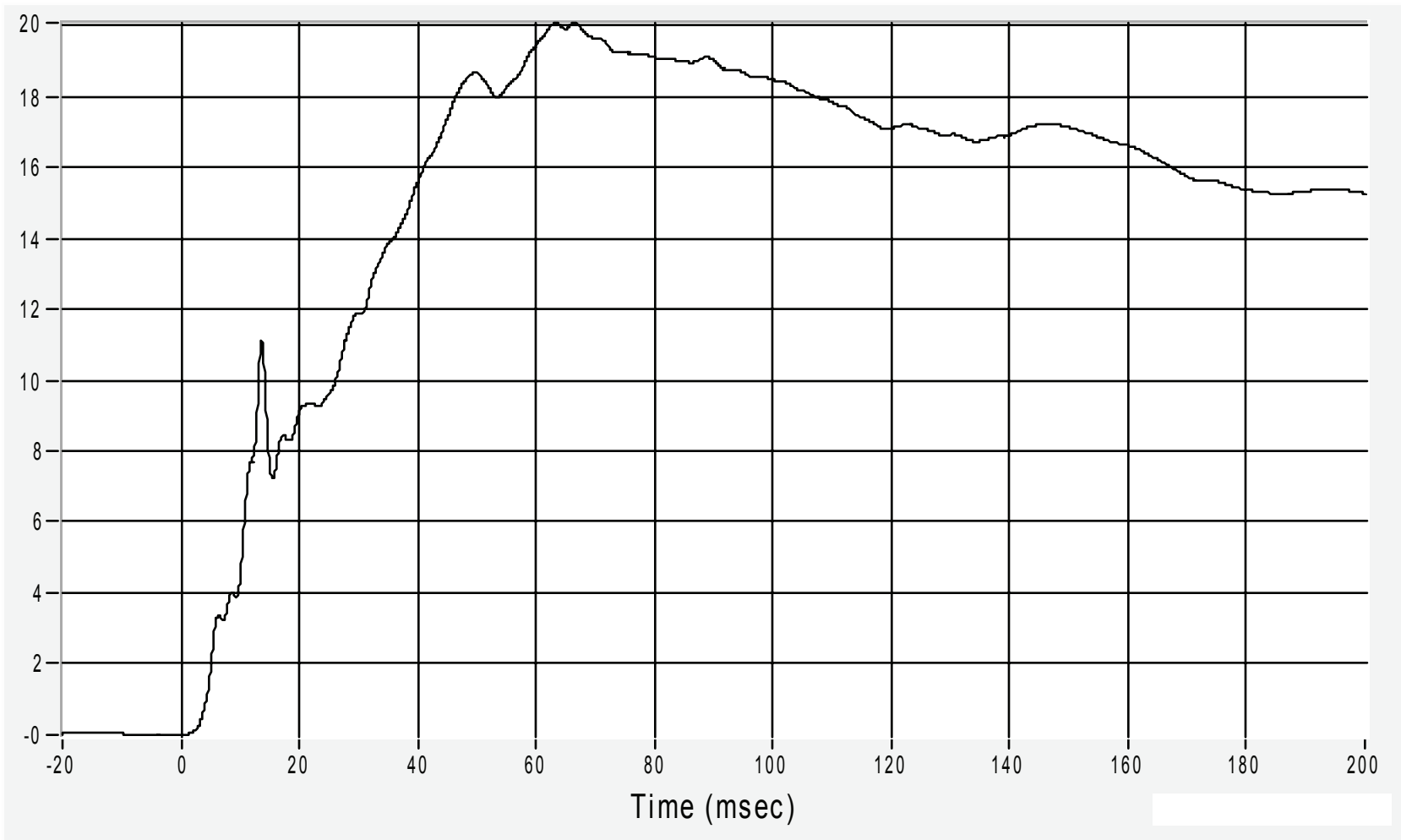
*Medical College of Wisconsin
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Left Side Sill at Front Seat (Y) Velocity

Velocity (km/h) CFC180

Max 20.1 km/h at 66.5 msec

Min 0.0 km/h at 0.6 msec



08SN01 - 2008 FORD MUSTANG 2-DOOR COUPE
22 August 2007

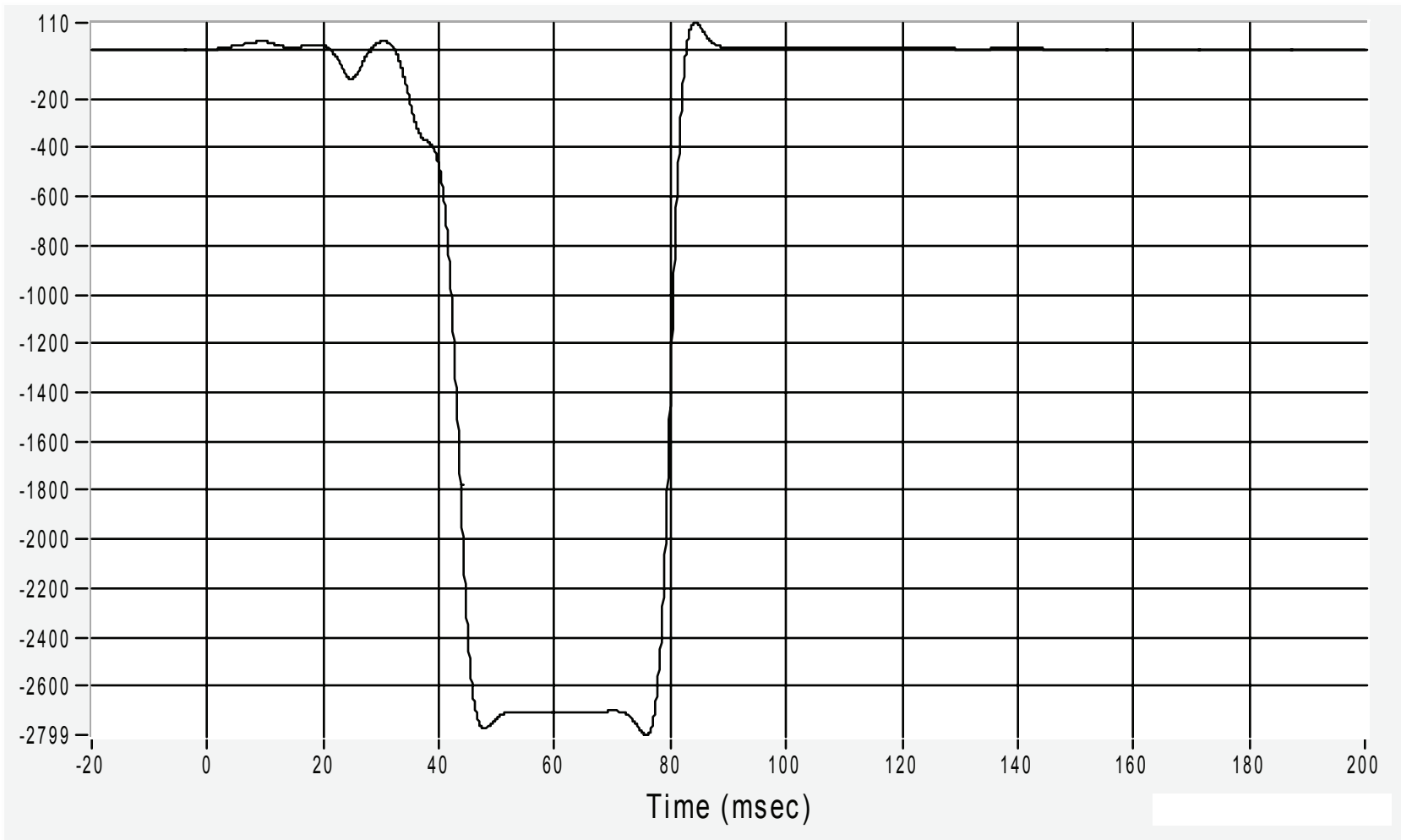
*Medical College of Wisconsin
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Right Rear Occupant Compartment (Y) Acceleration

Acceleration (G's) CFC60

Max 110.1 G at 84.2 msec

Min -2799.3 G at 75.8 msec



08SN01 - 2008 FORD MUSTANG 2-DOOR COUPE

22 August 2007

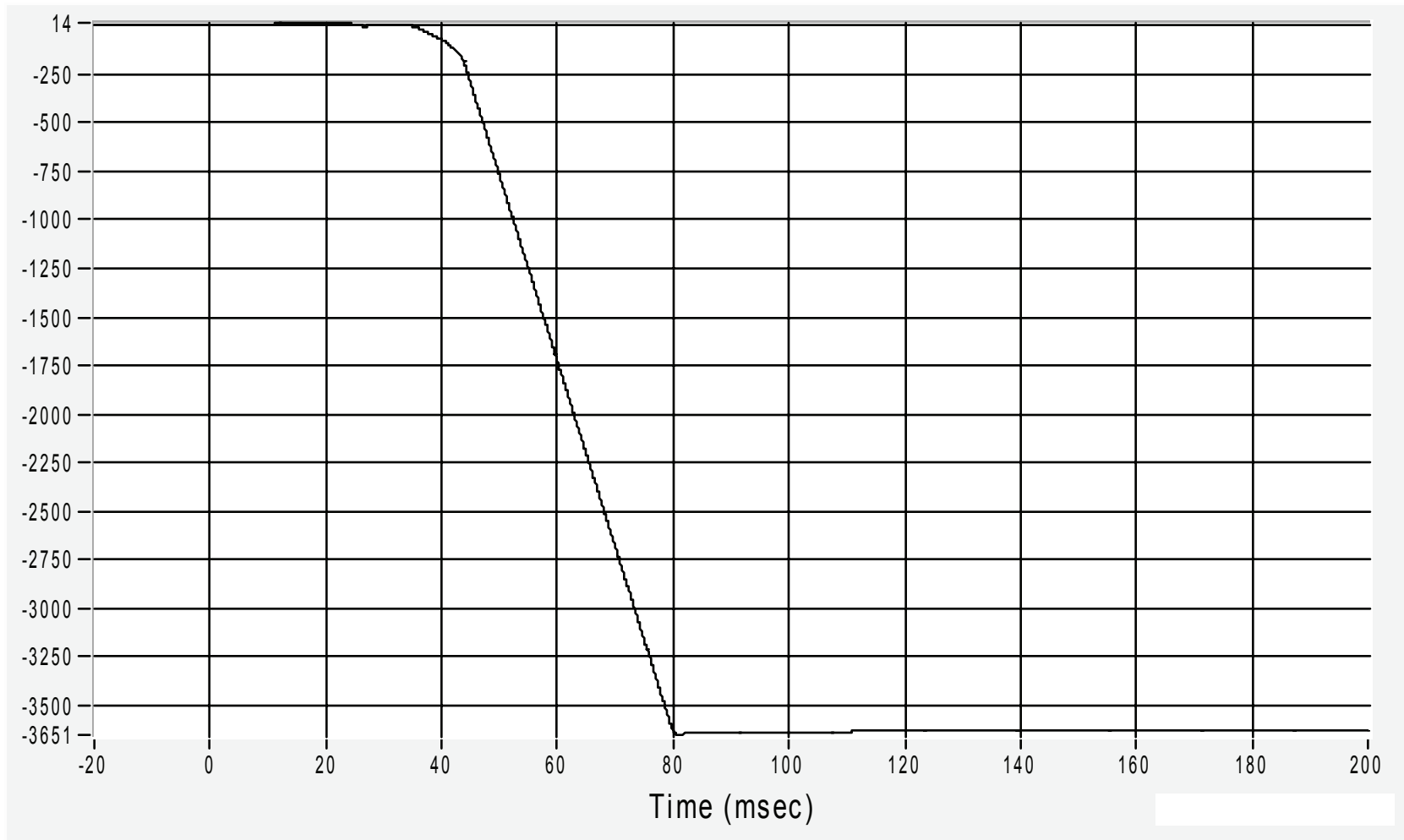
Medical College of Wisconsin
Vehicle Crashworthiness Lab

Right Rear Occupant Compartment (Y) Velocity

Velocity (km/h) CFC180

Max 13.6 km/h at 23.0 msec

Min -3651.0 km/h at 80.8 msec



08SN01 - 2008 FORD MUSTANG 2-DOOR COUPE

22 August 2007

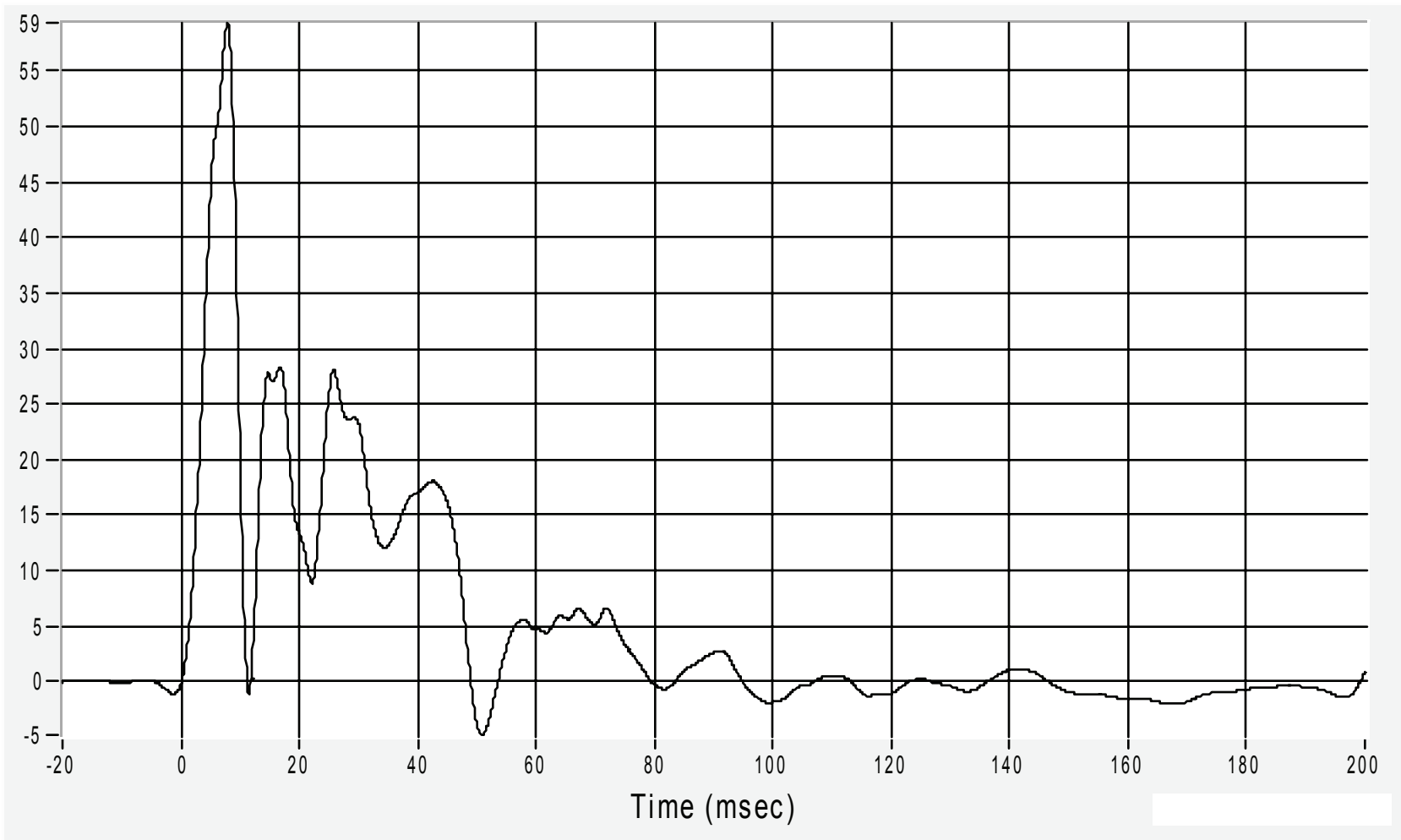
*Medical College of Wisconsin
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Left Lower B-Pillar (Y) Acceleration

Acceleration (G's) CFC60

Max 59.4 G at 7.8 msec

Min -4.8 G at 50.9 msec



08SN01 - 2008 FORD MUSTANG 2-DOOR COUPE

22 August 2007

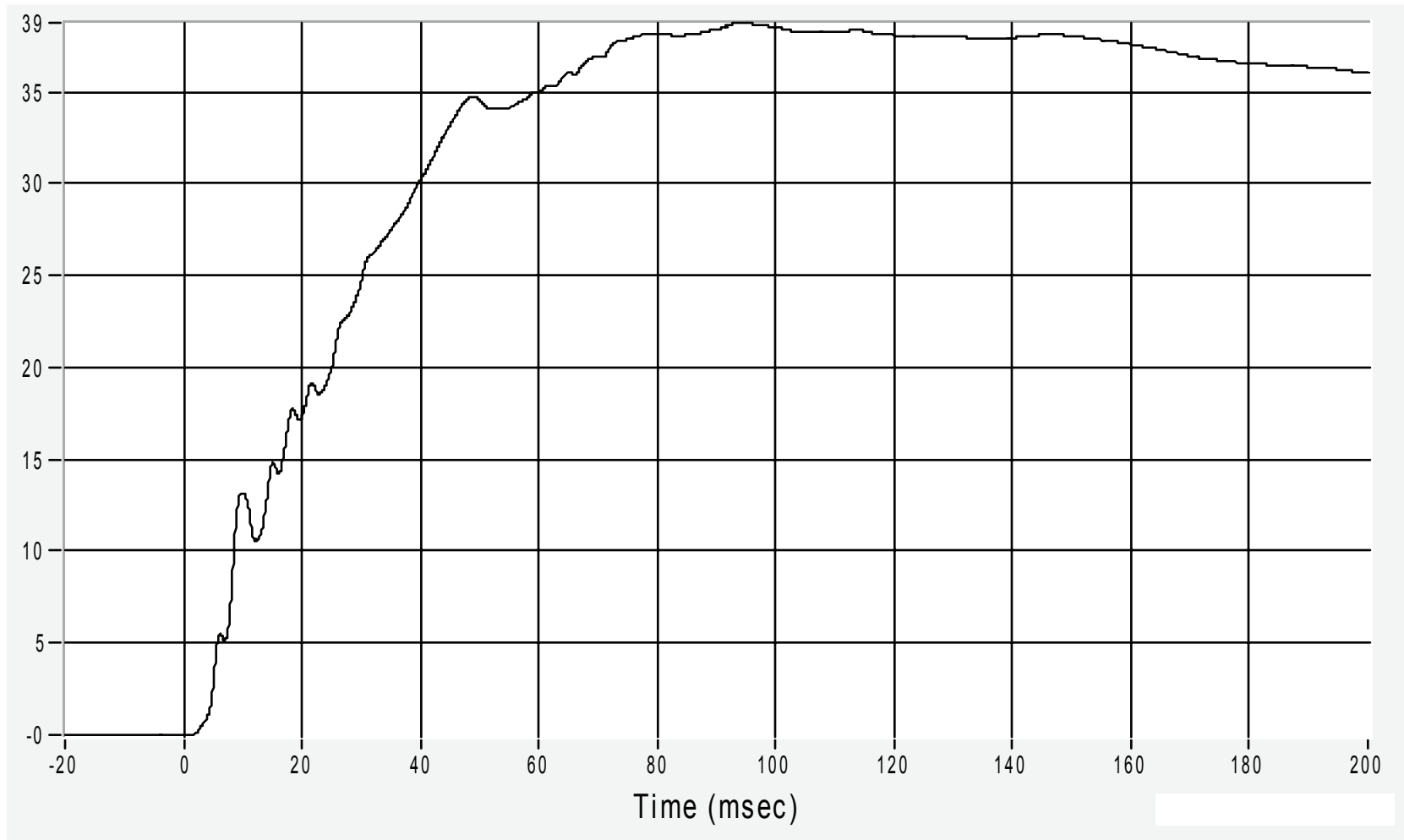
*Medical College of Wisconsin
Vehicle Crashworthiness Lab*

Left Lower B-Pillar (Y) Velocity

Velocity (km/h) CFC180

Max 38.7 km/h at 93.8 msec

Min 0.0 km/h at 0.0 msec



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22 August 2007

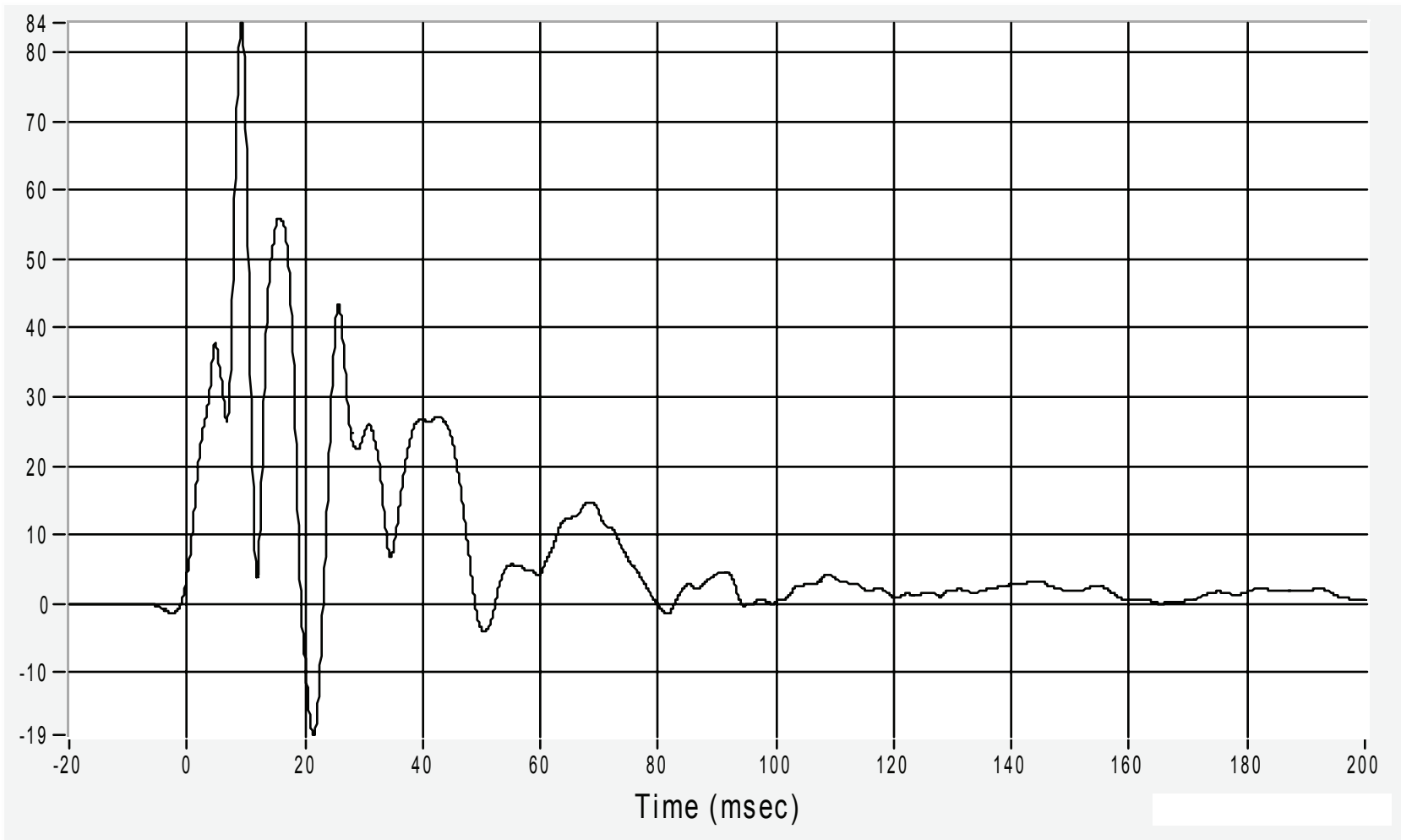
*Medical College of Wisconsin
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Left Middle B-Pillar (Y) Acceleration

Acceleration (G's) CFC60

Max 84.2 G at 9.3 msec

Min -19.0 G at 21.4 msec



08SN01 - 2008 FORD MUSTANG 2-DOOR COUPE

22 August 2007

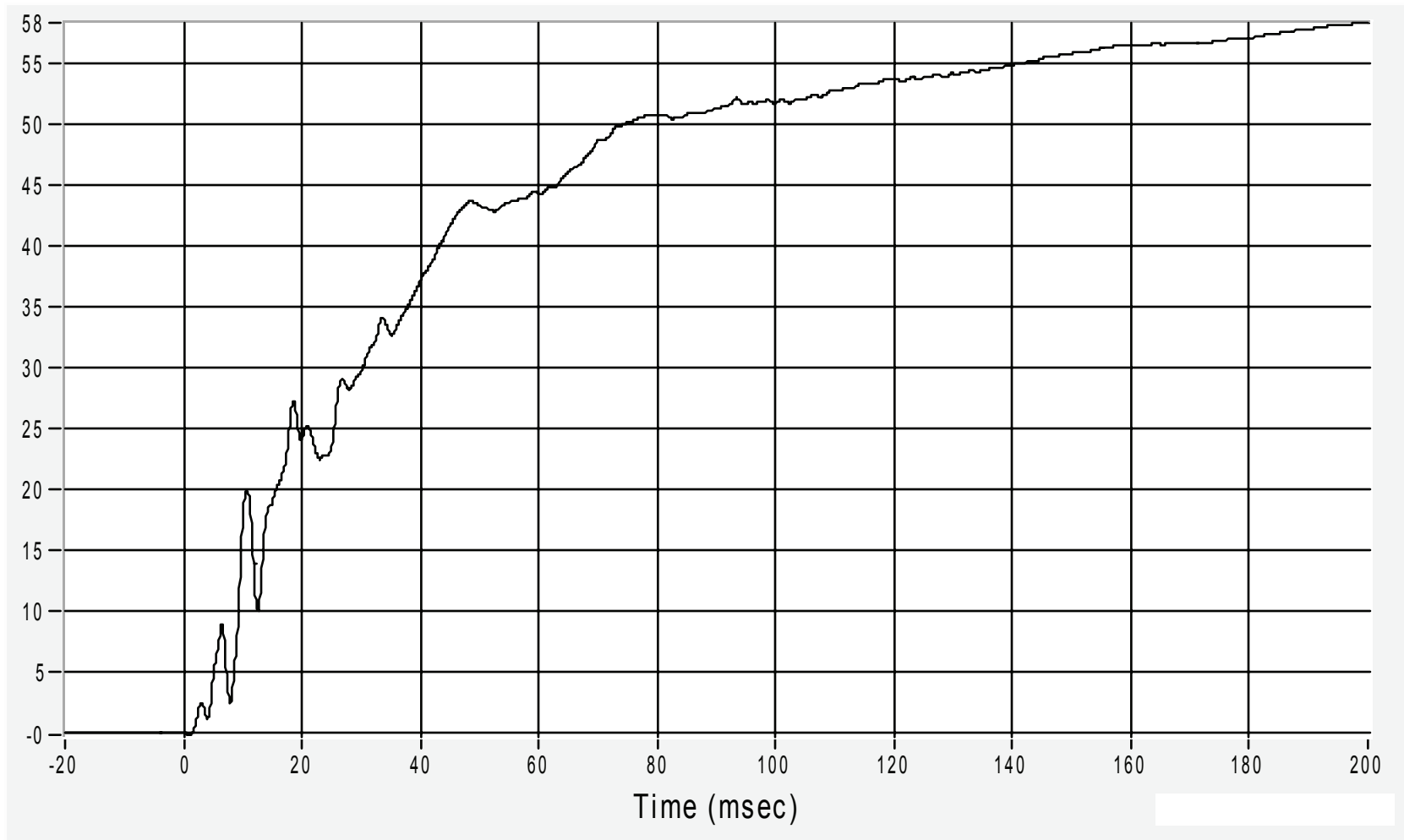
*Medical College of Wisconsin
Vehicle Crashworthiness Lab*

Left Middle B-Pillar (Y) Velocity

Velocity (km/h) CFC180

Max 58.3 km/h at 199.9 msec

Min -0.2 km/h at 1.0 msec



08SN01 - 2008 FORD MUSTANG 2-DOOR COUPE

22 August 2007

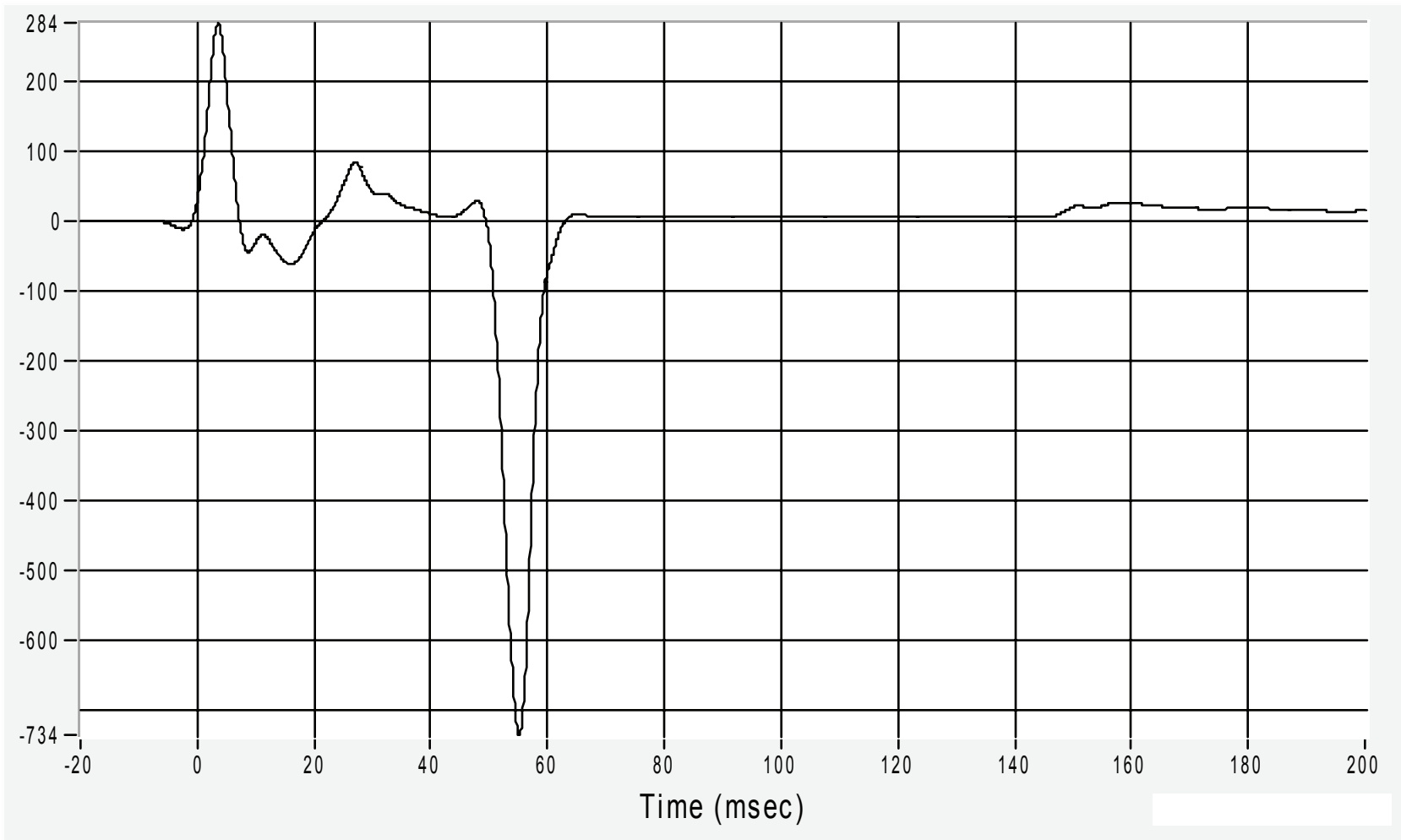
*Medical College of Wisconsin
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Left Lower A-Pillar (Y) Acceleration

Acceleration (G's) CFC60

Max 283.8 G at 3.6 msec

Min -734.2 G at 55.1 msec



08SN01 - 2008 FORD MUSTANG 2-DOOR COUPE

22 August 2007

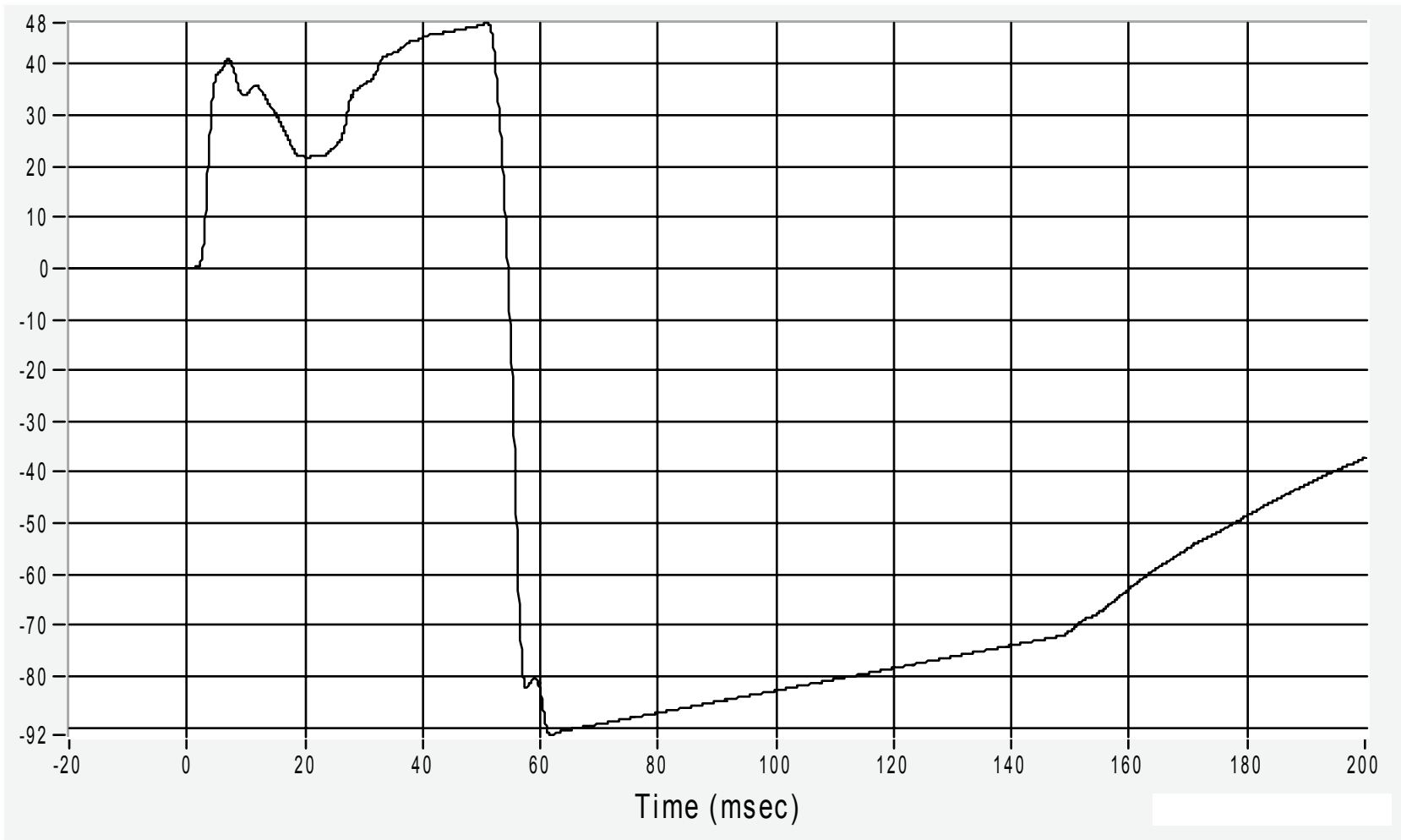
*Medical College of Wisconsin
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Left Lower A-Pillar (Y) Velocity

Velocity (km/h) CFC180

Max 48.2 km/h at 50.8 msec

Min -91.5 km/h at 61.8 msec



08SN01 - 2008 FORD MUSTANG 2-DOOR COUPE

22 August 2007

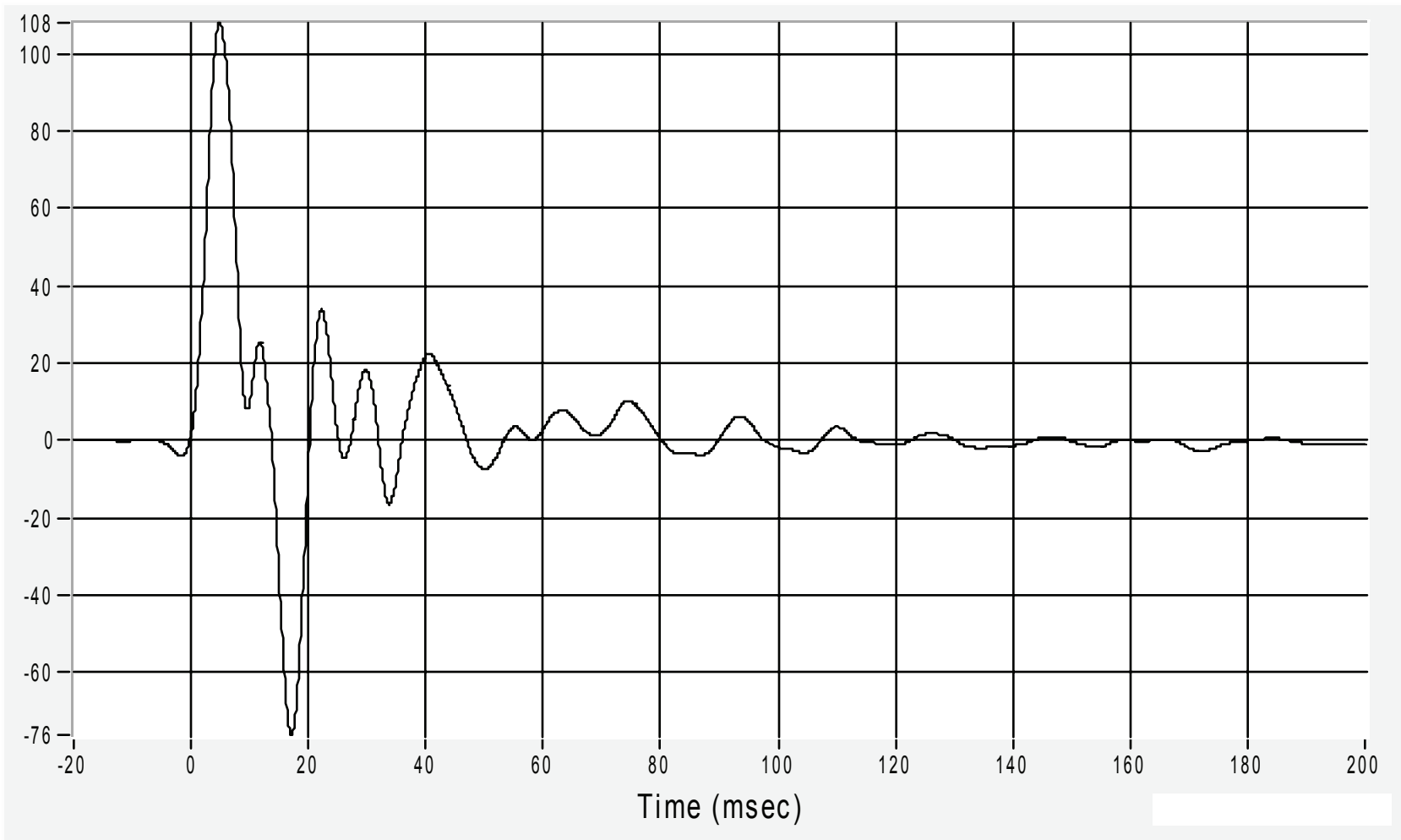
*Medical College of Wisconsin
Vehicle Crashworthiness Lab*

Left Middle A-Pillar (Y) Acceleration

Acceleration (G's) CFC60

Max 108.0 G at 4.9 msec

Min -76.1 G at 17.0 msec



08SN01 - 2008 FORD MUSTANG 2-DOOR COUPE
22 August 2007

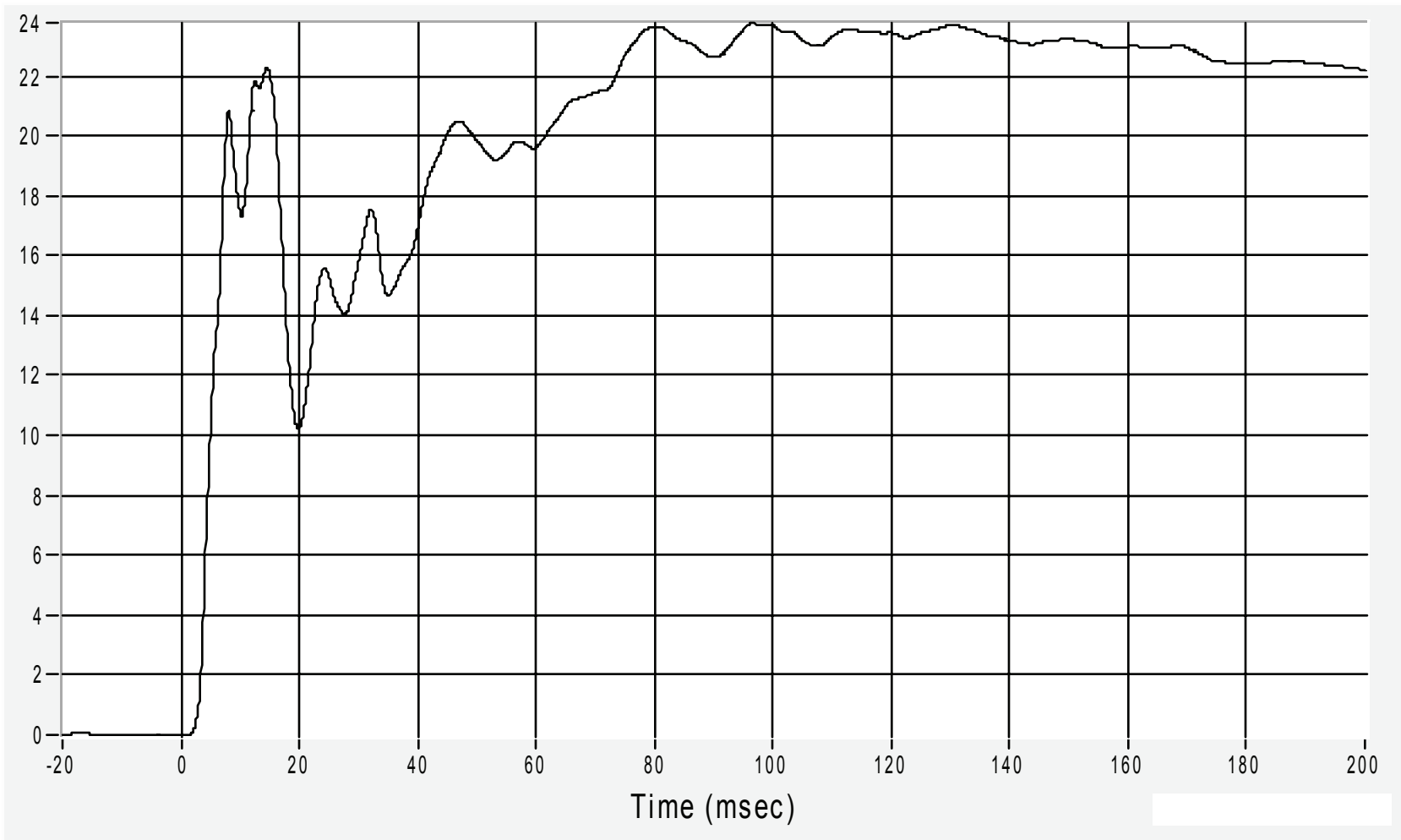
*Medical College of Wisconsin
Vehicle Crashworthiness Lab*

Left Middle A-Pillar (Y) Velocity

Velocity (km/h) CFC180

Max 23.8 km/h at 96.6 msec

Min 0.0 km/h at 0.0 msec



08SN01 - 2008 FORD MUSTANG 2-DOOR COUPE
22 August 2007

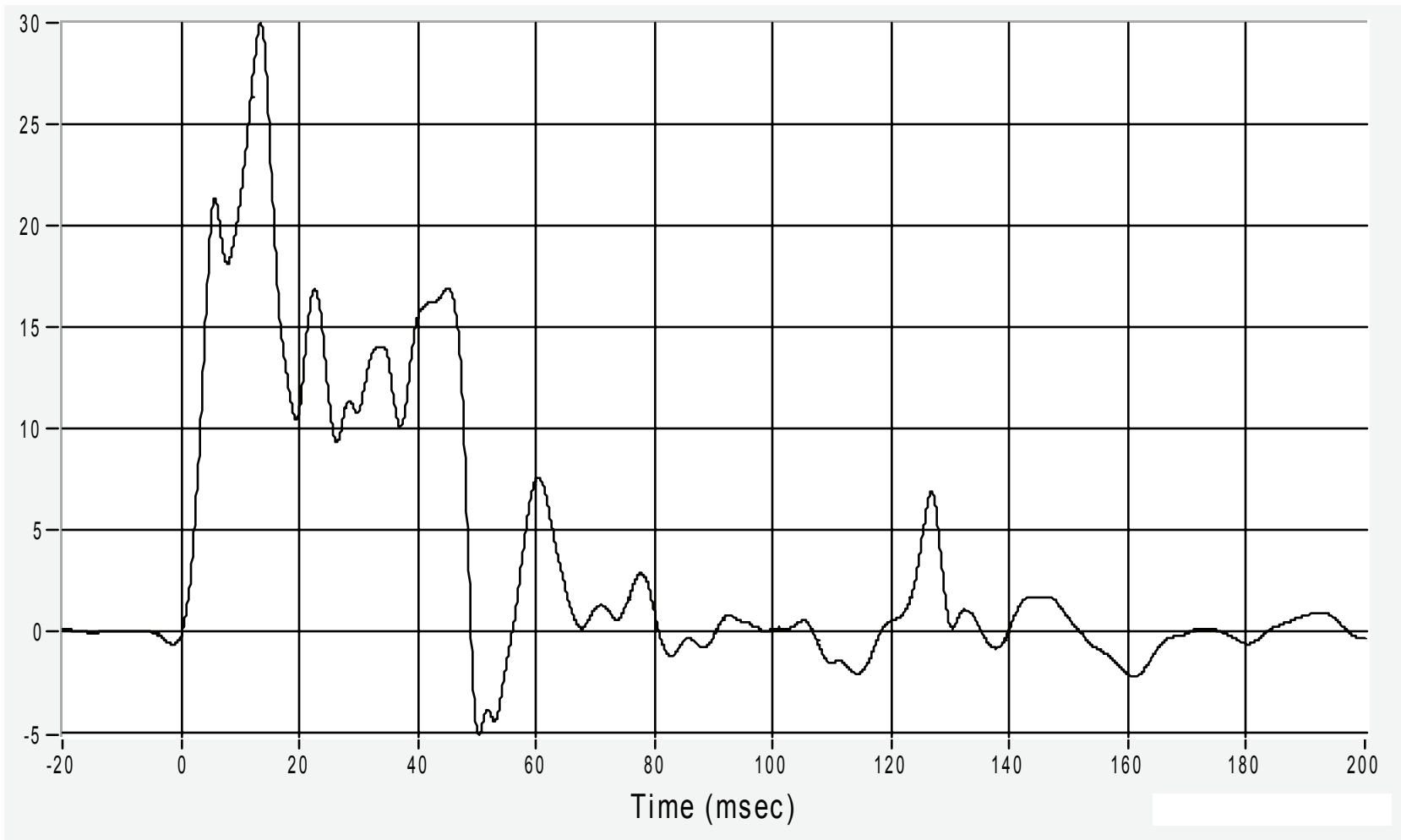
*Medical College of Wisconsin
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Front Seat Track (Y) Acceleration

Acceleration (G's) CFC60

Max 30.0 G at 13.4 msec

Min -5.1 G at 50.3 msec



08SN01 - 2008 FORD MUSTANG 2-DOOR COUPE
22 August 2007

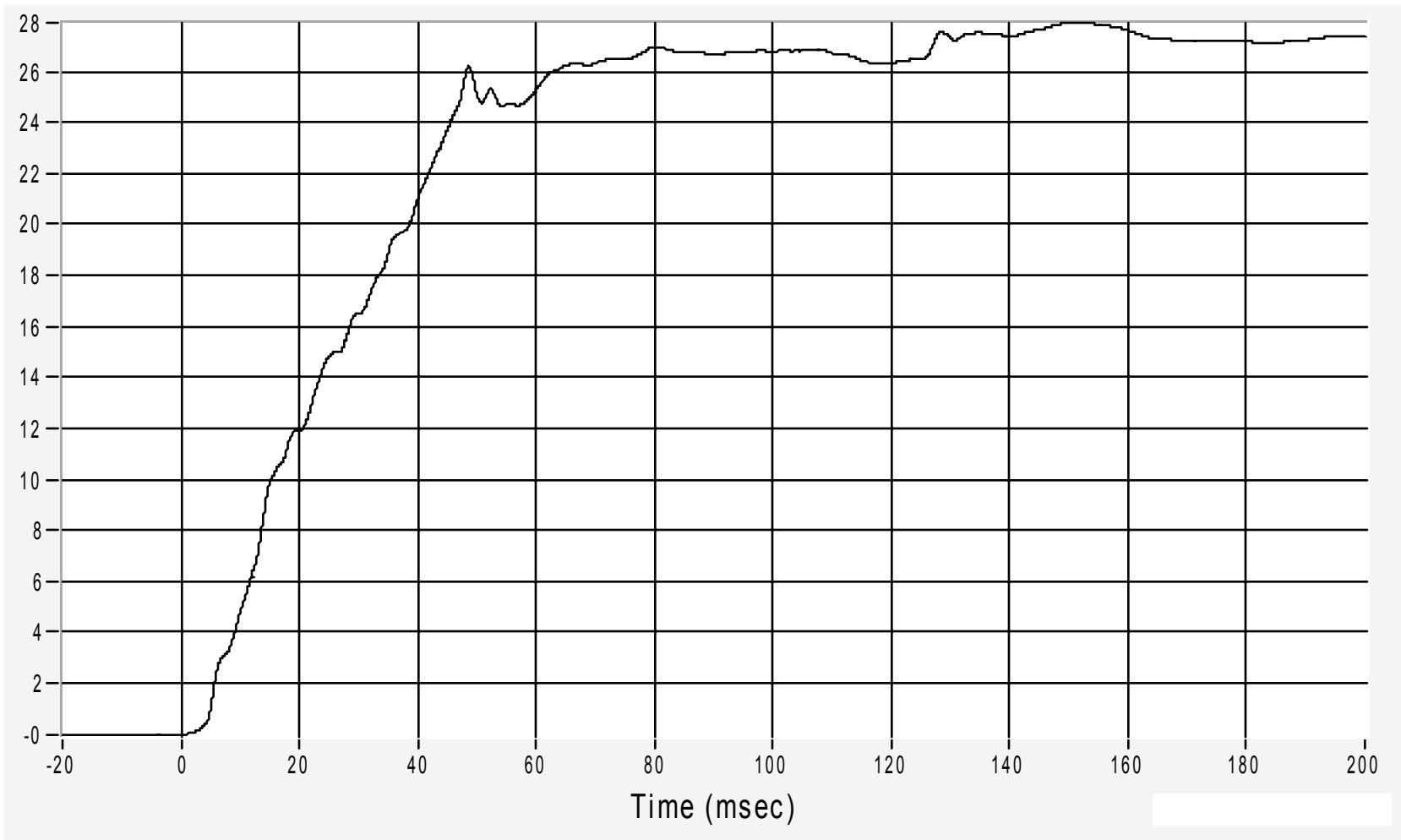
*Medical College of Wisconsin
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Front Seat Track (Y) Velocity

Velocity (km/h) CFC180

Max 27.9 km/h at 151.3 msec

Min 0.0 km/h at 0.2 msec



08SN01 - 2008 FORD MUSTANG 2-DOOR COUPE

22 August 2007

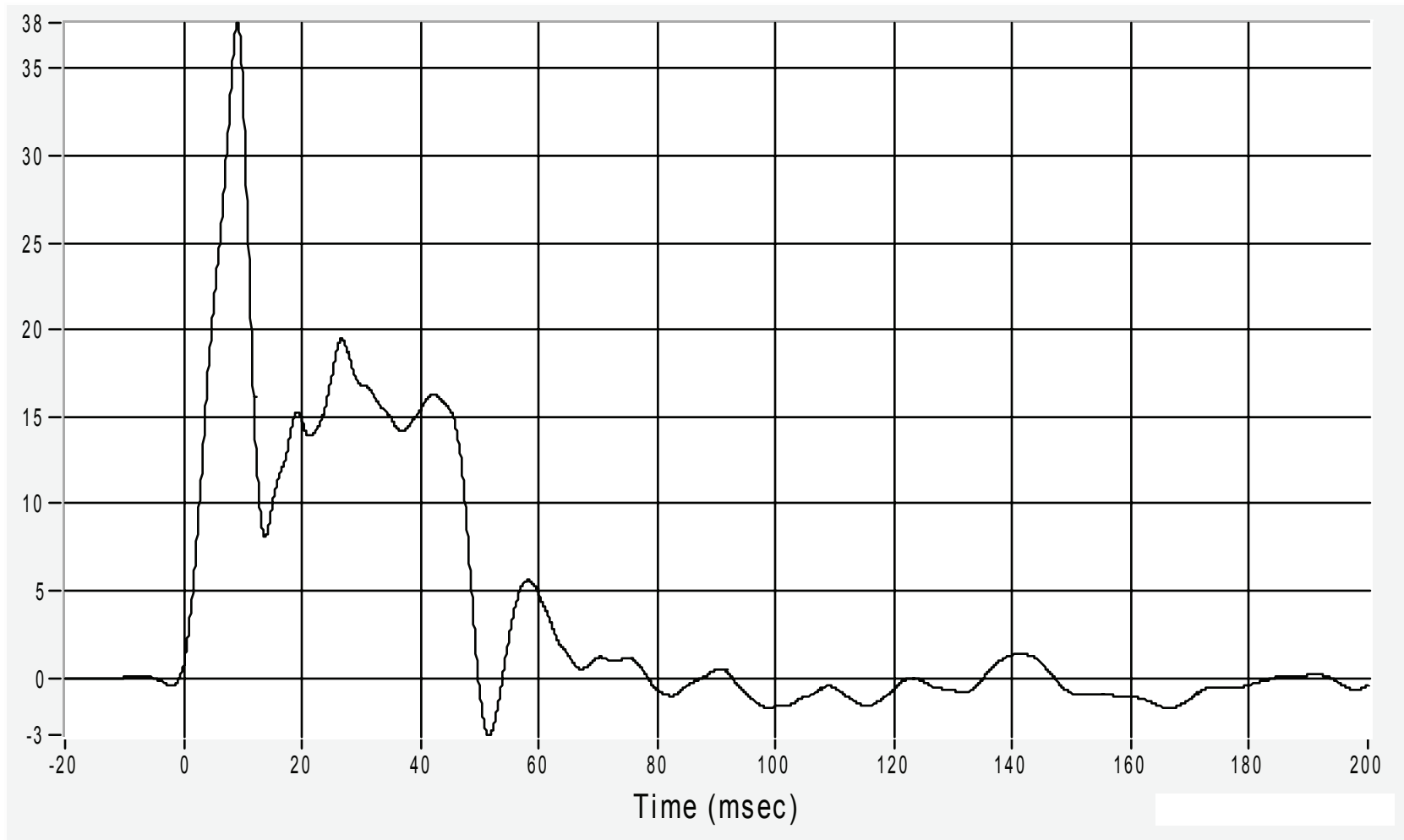
Medical College of Wisconsin
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Rear Seat Track (Y) Acceleration

Acceleration (G's) CFC60

Max 37.6 G at 9.1 msec

Min -3.3 G at 51.6 msec



08SN01 - 2008 FORD MUSTANG 2-DOOR COUPE

22 August 2007

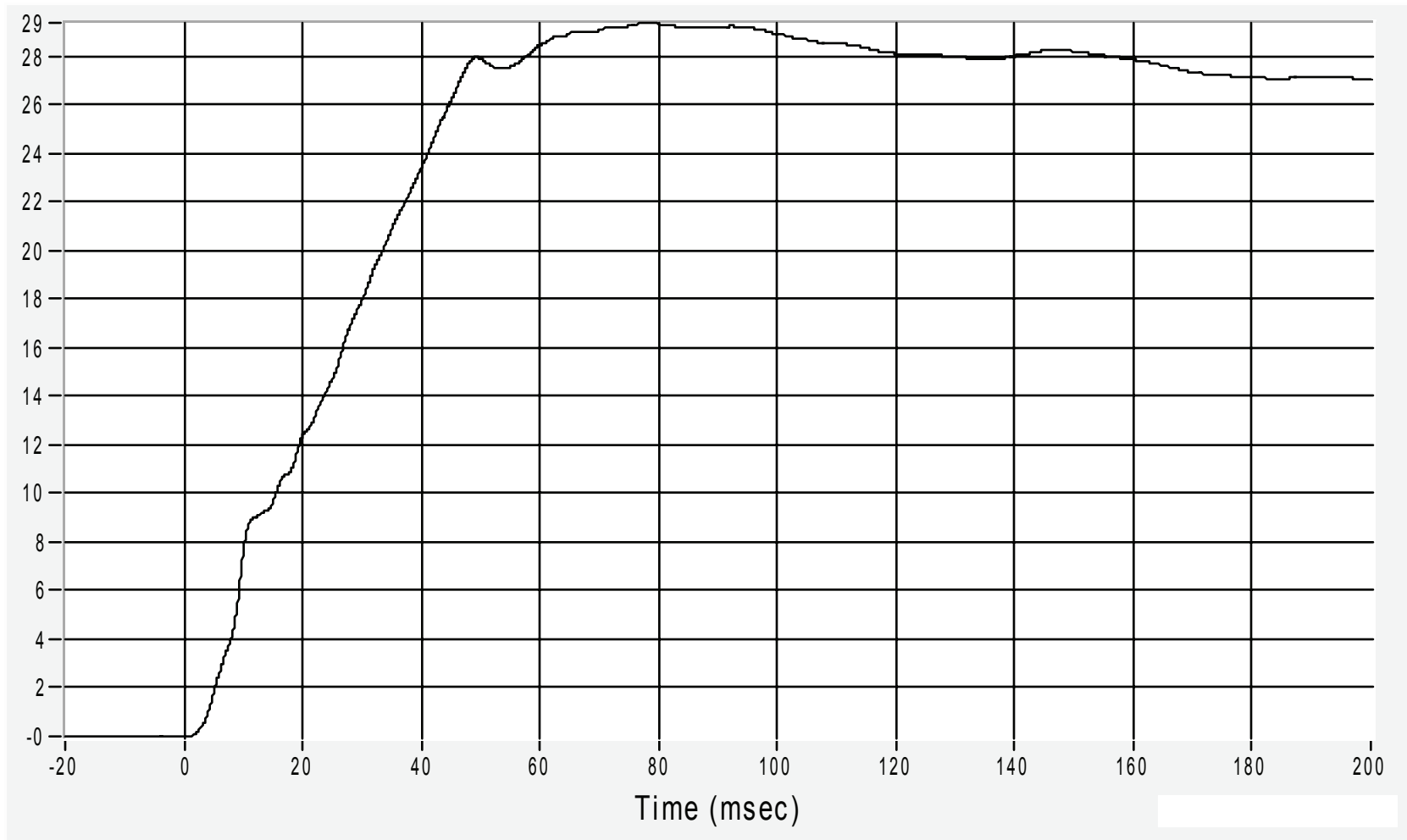
Medical College of Wisconsin
Vehicle Crashworthiness Lab

Rear Seat Track (Y) Velocity

Velocity (km/h) CFC180

Max 29.4 km/h at 78.2 msec

Min 0.0 km/h at 0.4 msec



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22 August 2007

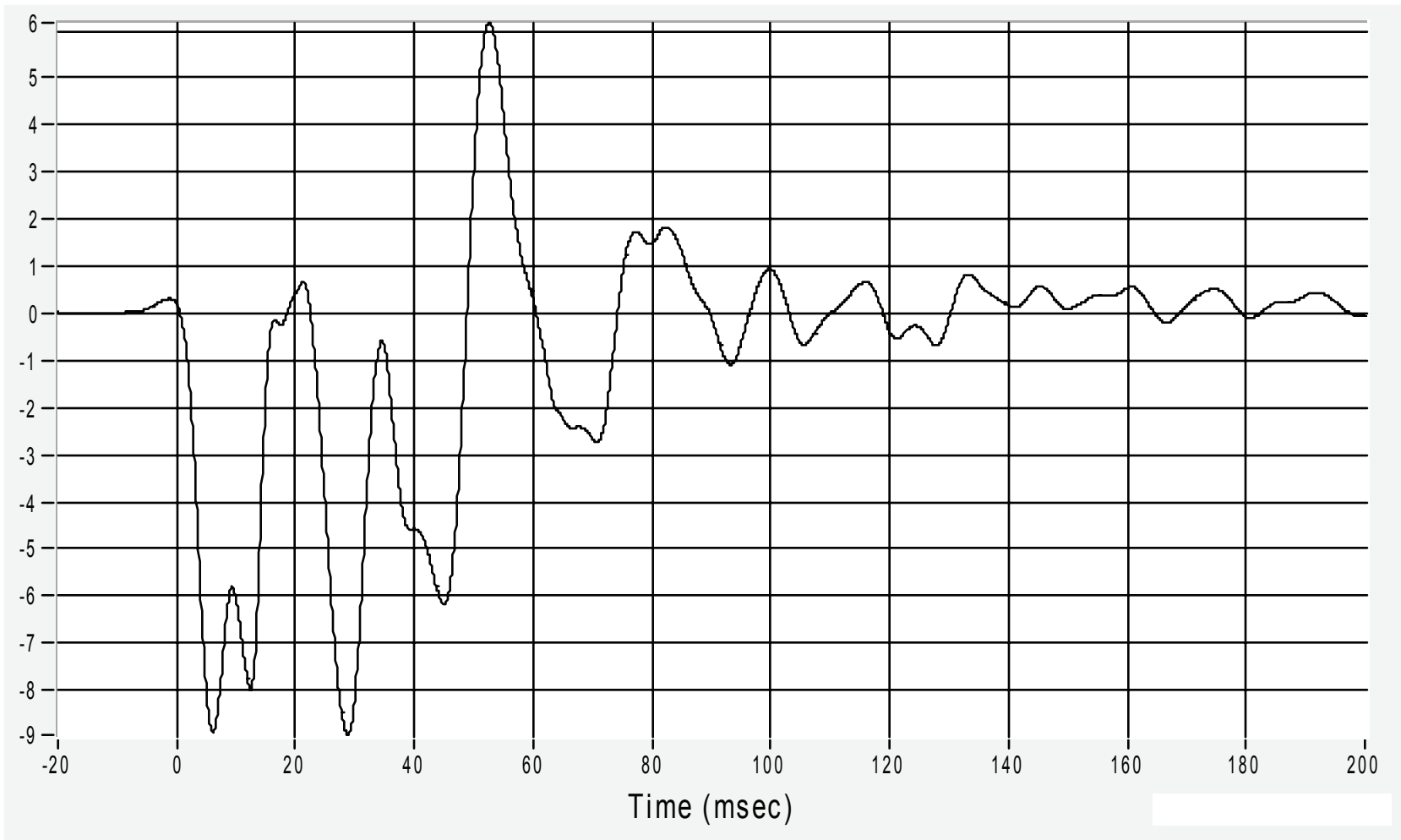
Medical College of Wisconsin
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Vehicle Center of Gravity (X) Acceleration

Acceleration (G's) CFC60

Max 6.2 G at 52.6 msec

Min -8.9 G at 28.8 msec



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22 August 2007

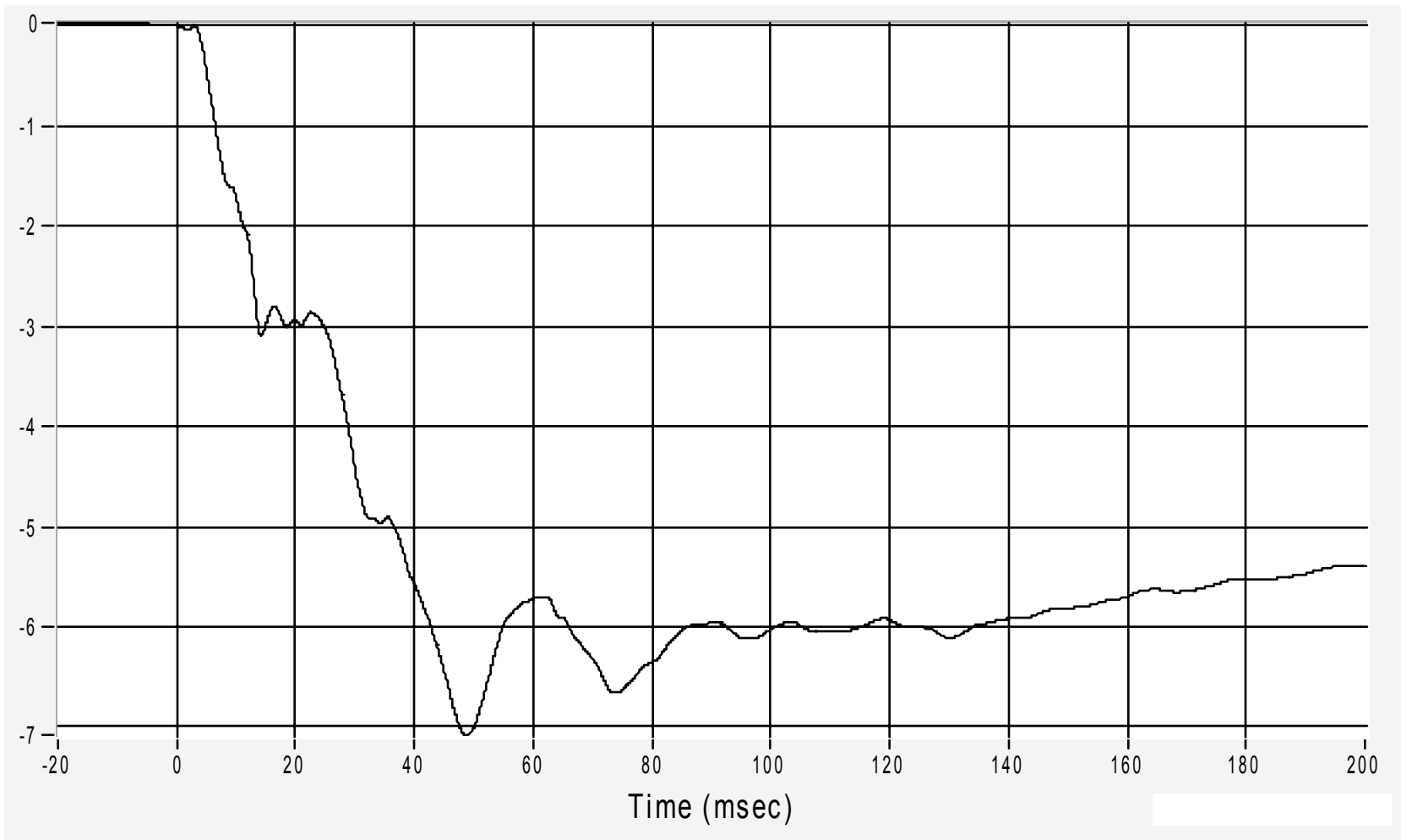
Medical College of Wisconsin
Vehicle Crashworthiness Lab

Vehicle Center of Gravity (X) Velocity

Velocity (km/h) CFC180

Max 0.0 km/h at 3.0 msec

Min -7.1 km/h at 48.8 msec



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22 August 2007

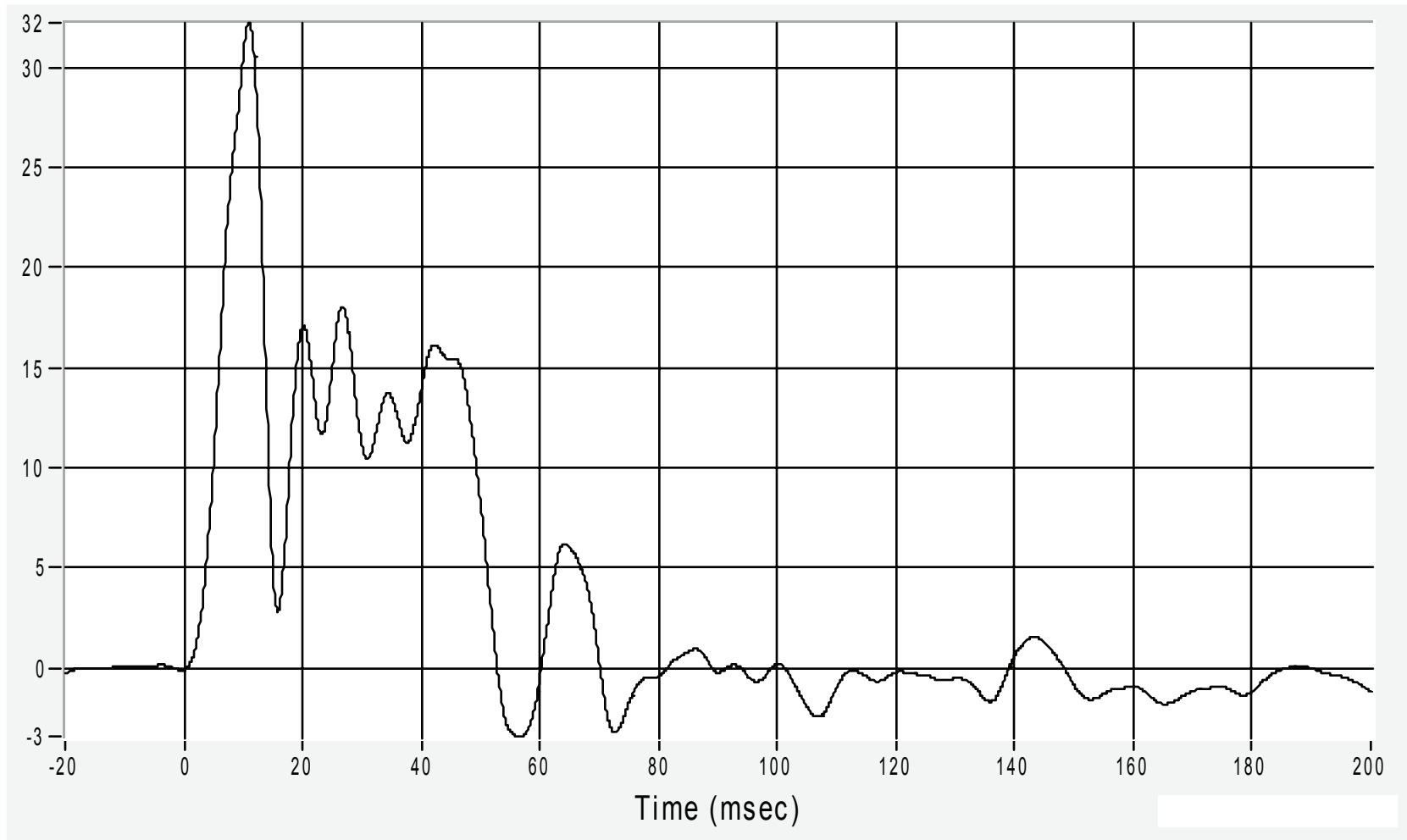
*Medical College of Wisconsin
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Vehicle Center of Gravity (Y) Acceleration

Acceleration (G's) CFC60

Max 32.2 G at 11.0 msec

Min -3.4 G at 56.7 msec



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22 August 2007

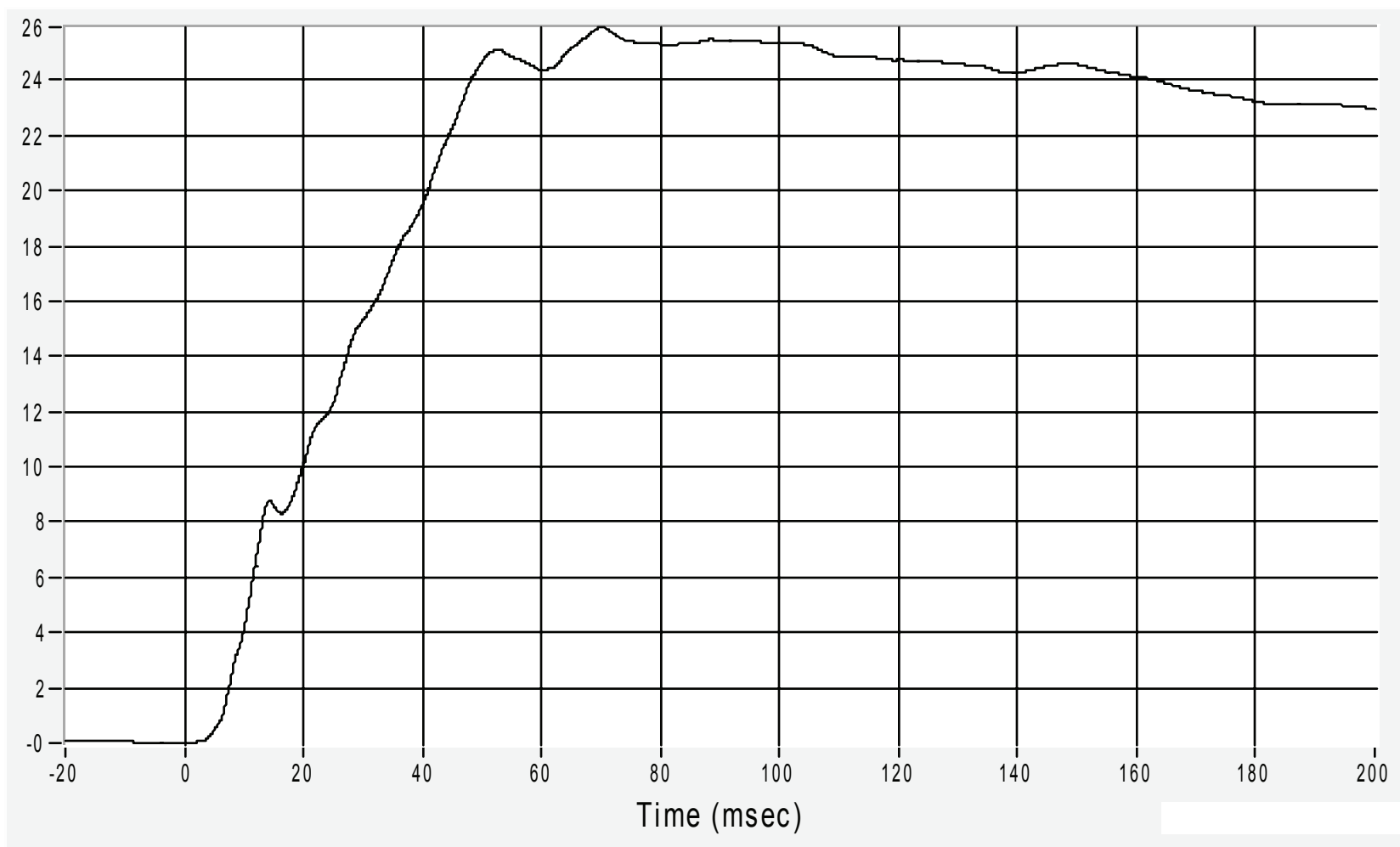
Medical College of Wisconsin
Vehicle Crashworthiness Lab

Vehicle Center of Gravity (Y) Velocity

Velocity (km/h) CFC180

Max 25.9 km/h at 70.1 msec

Min 0.0 km/h at 0.3 msec



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22 August 2007

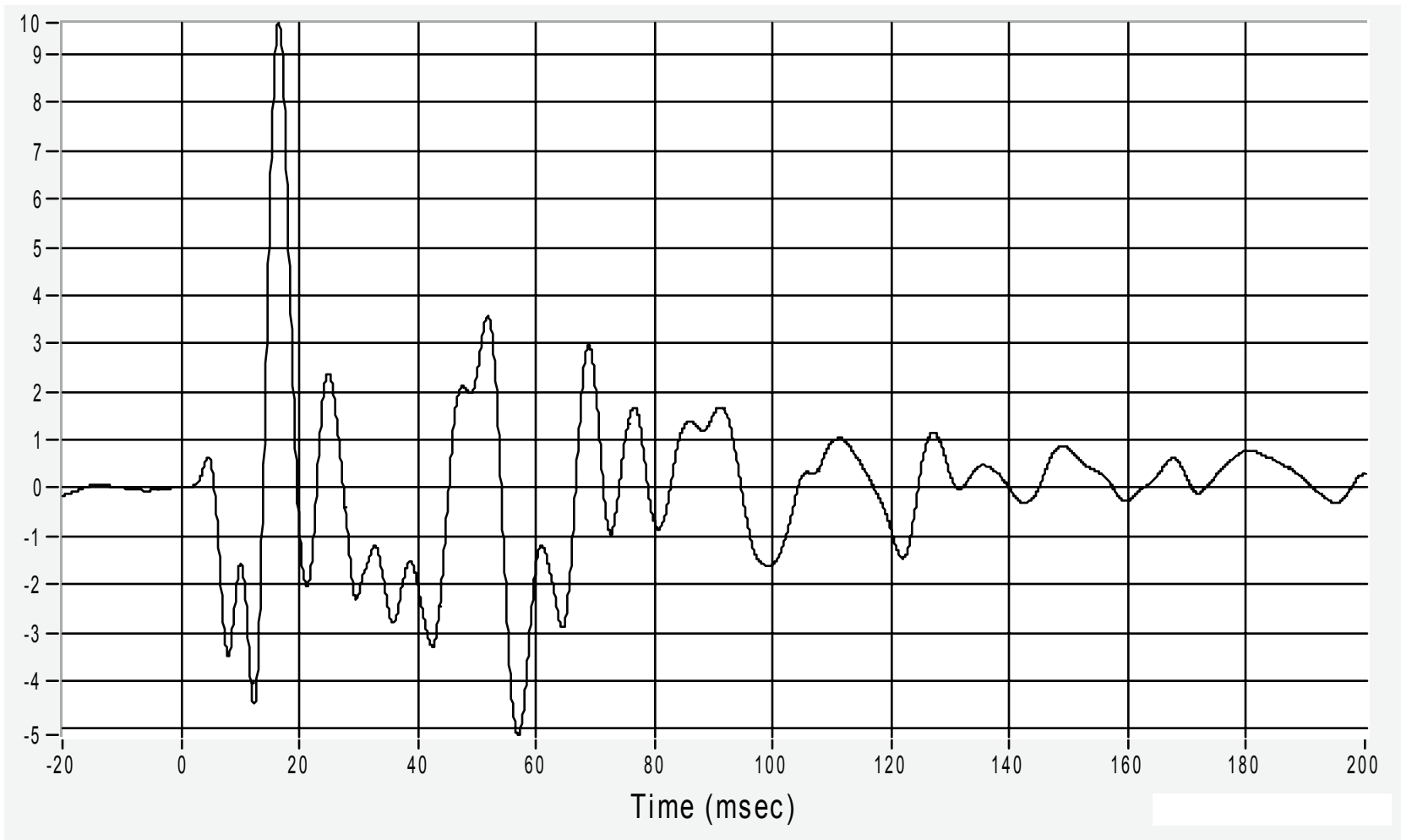
Medical College of Wisconsin
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Vehicle Center of Gravity (Z) Acceleration

Acceleration (G's) CFC60

Max 9.7 G at 16.5 msec

Min -5.1 G at 57.0 msec



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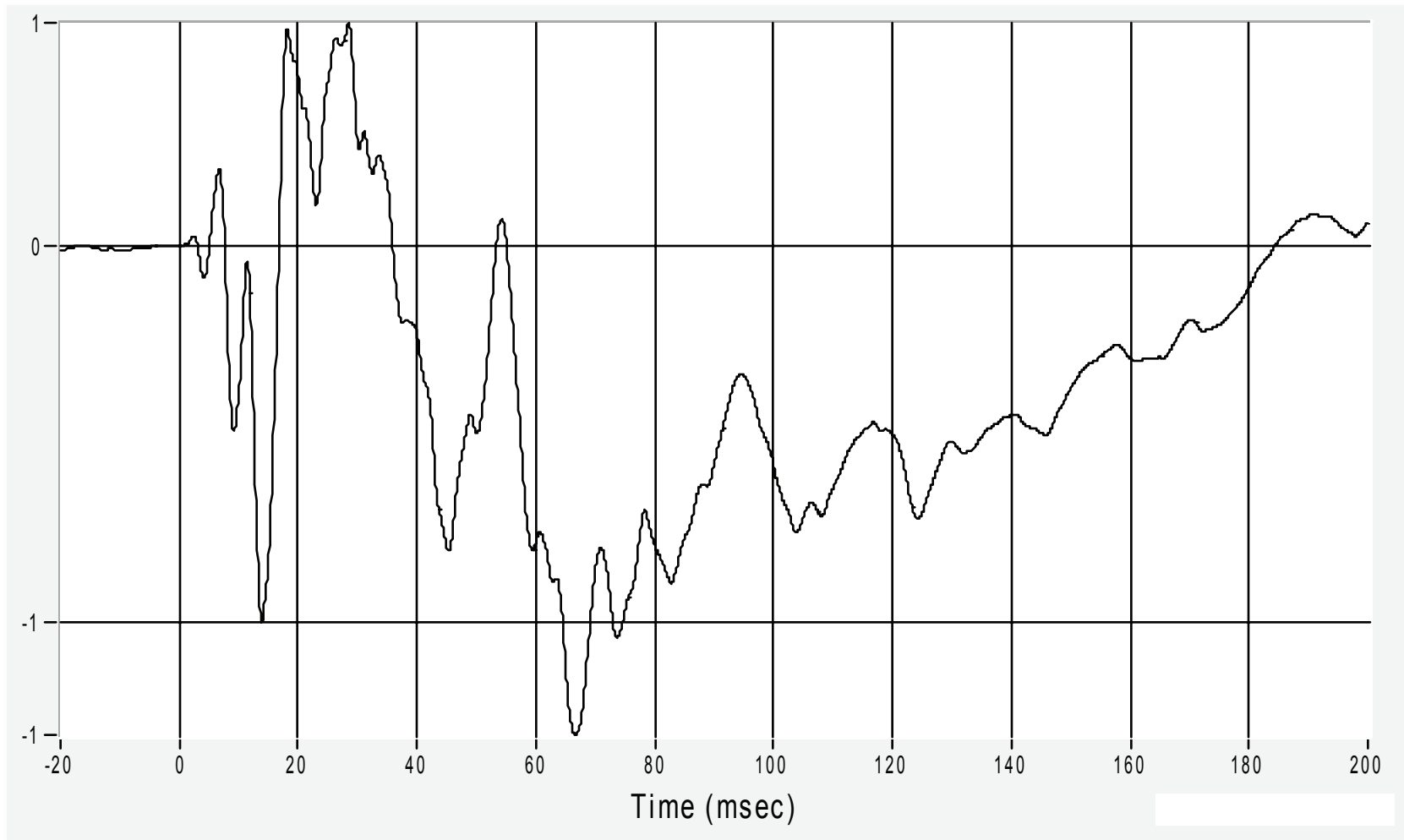
*Medical College of Wisconsin
Vehicle Crashworthiness Lab*

Vehicle Center of Gravity (Z) Velocity

Velocity (km/h) CFC180

Max 0.6 km/h at 28.5 msec

Min -1.3 km/h at 66.6 msec



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22 August 2007

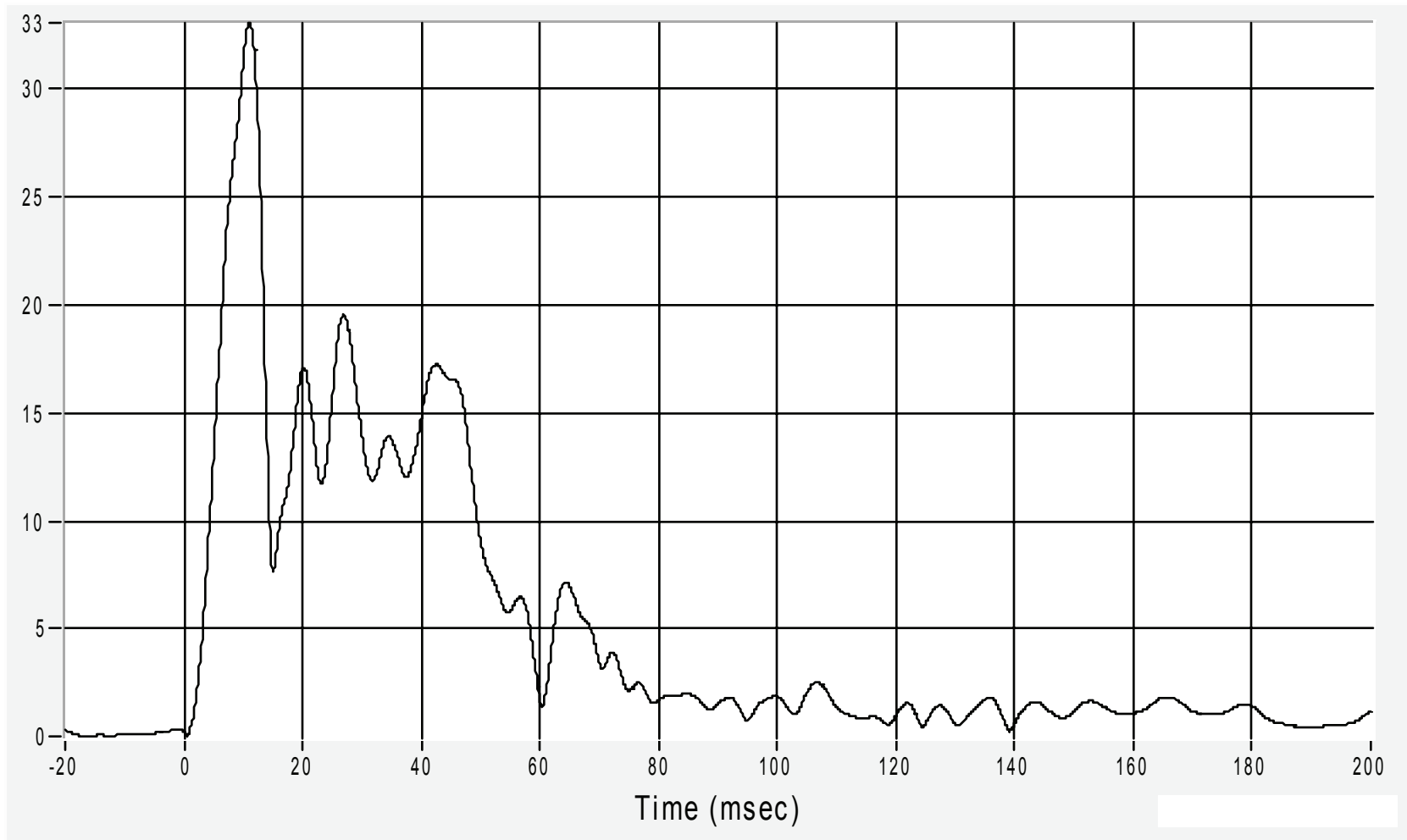
*Medical College of Wisconsin
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Vehicle Center of Gravity Resultant Acceleration

Acceleration (G's) CFC60

Max 33.1 G's at 11.0 msec

Min 0.0 G's at 0.6 msec



08SN01 - 2008 FORD MUSTANG 2-DOOR COUPE

22 August 2007

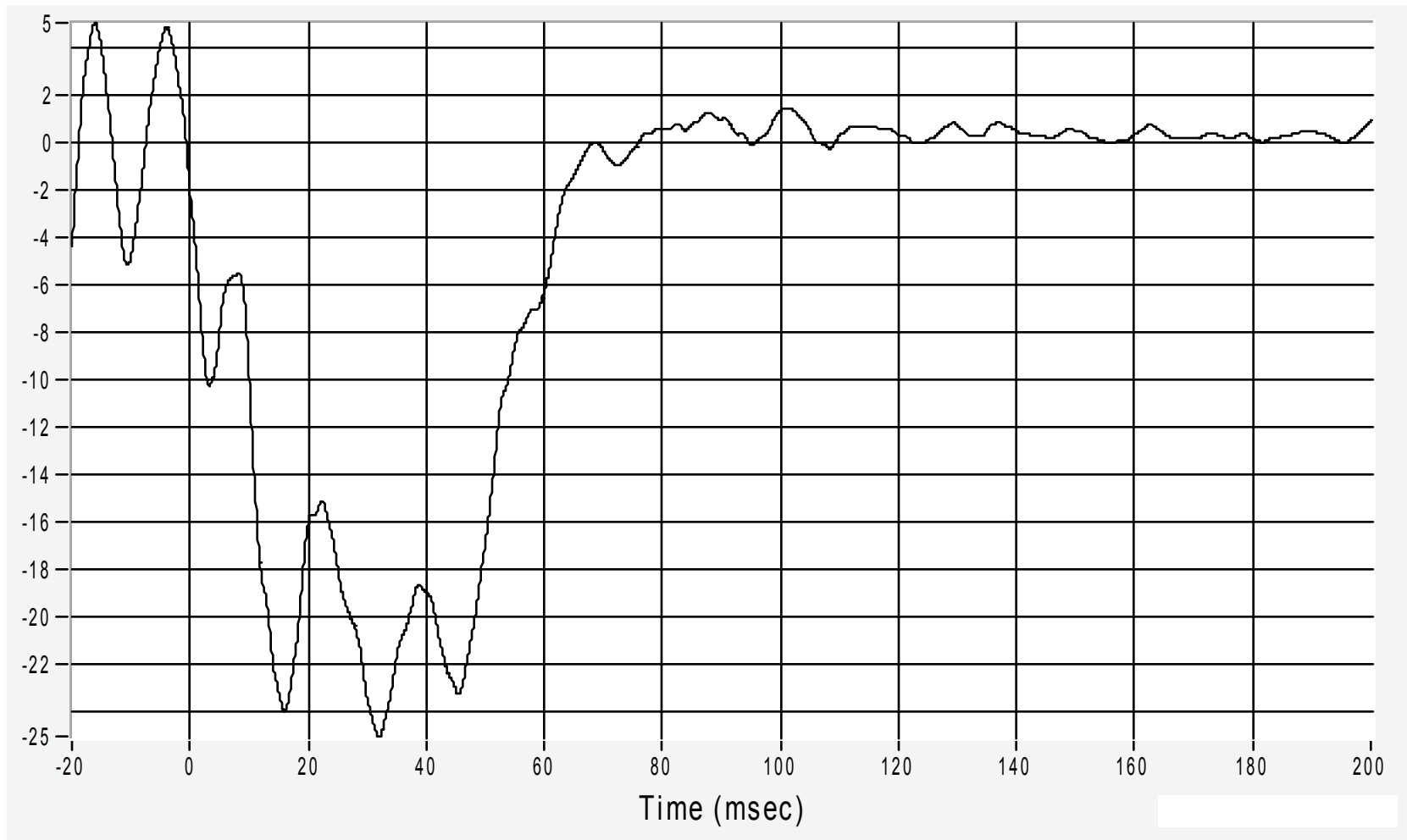
Medical College of Wisconsin
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MDB Center of Gravity (X) Acceleration

Acceleration (G's) CFC60

Max 1.5 G at 101.3 msec

Min -25.1 G at 32.0 msec



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22 August 2007

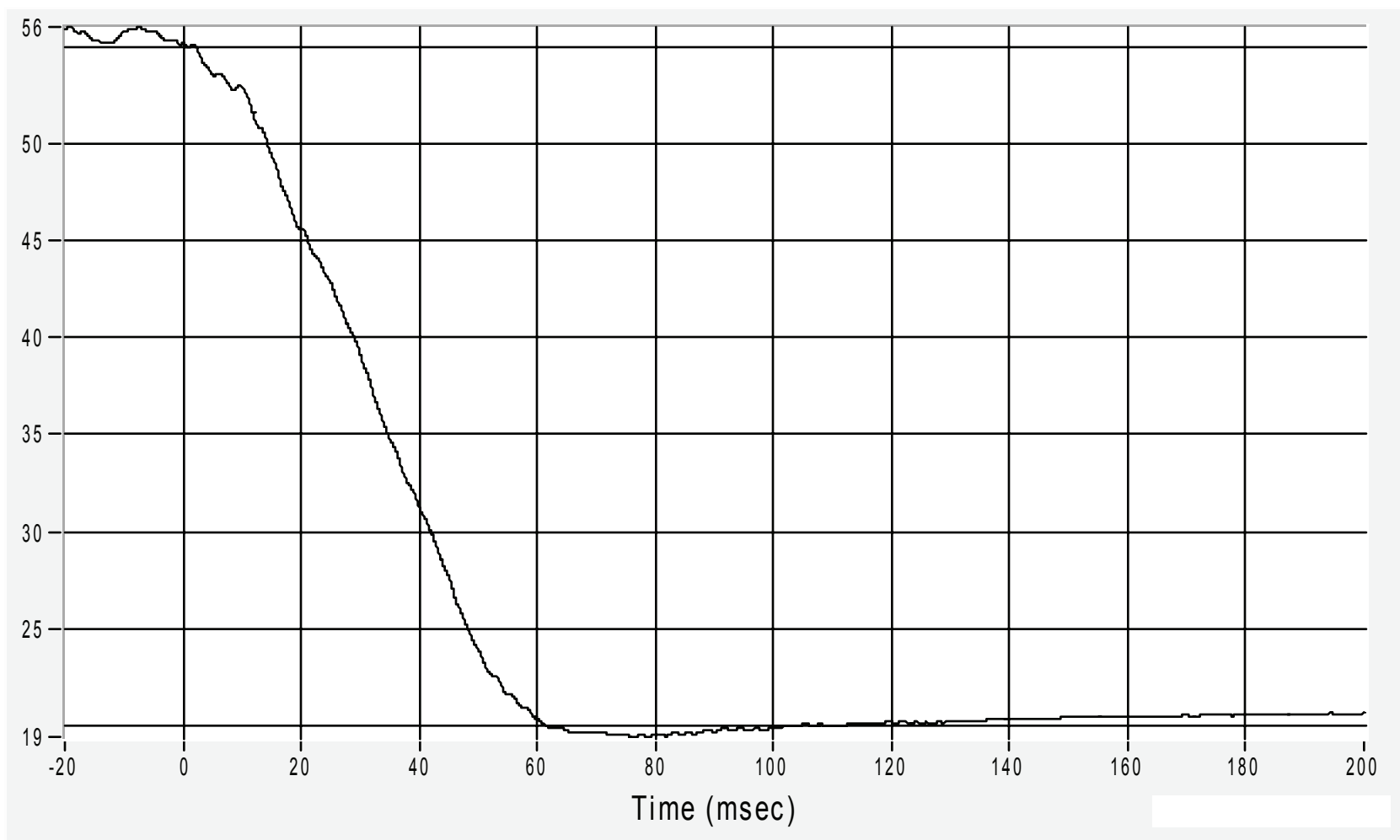
*Medical College of Wisconsin
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MDB Center of Gravity (X) Velocity

Velocity (km/h) CFC180

Max 55.2 km/h at 0.0 msec

Min 19.4 km/h at 76.3 msec



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22 August 2007

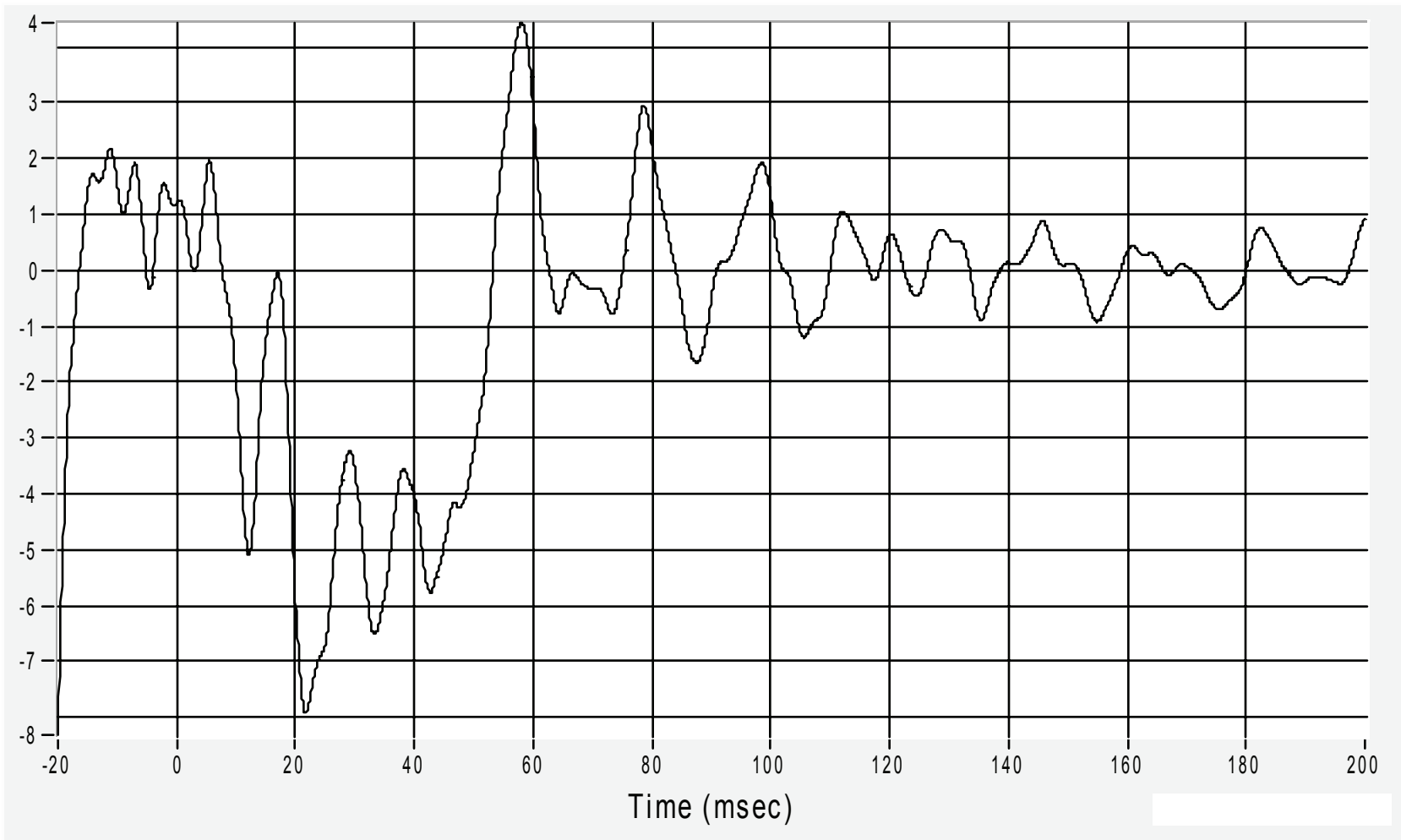
Medical College of Wisconsin
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MDB Center of Gravity (Y) Acceleration

Acceleration (G's) CFC60

Max 4.4 G at 58.0 msec

Min -7.9 G at 21.7 msec



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22 August 2007

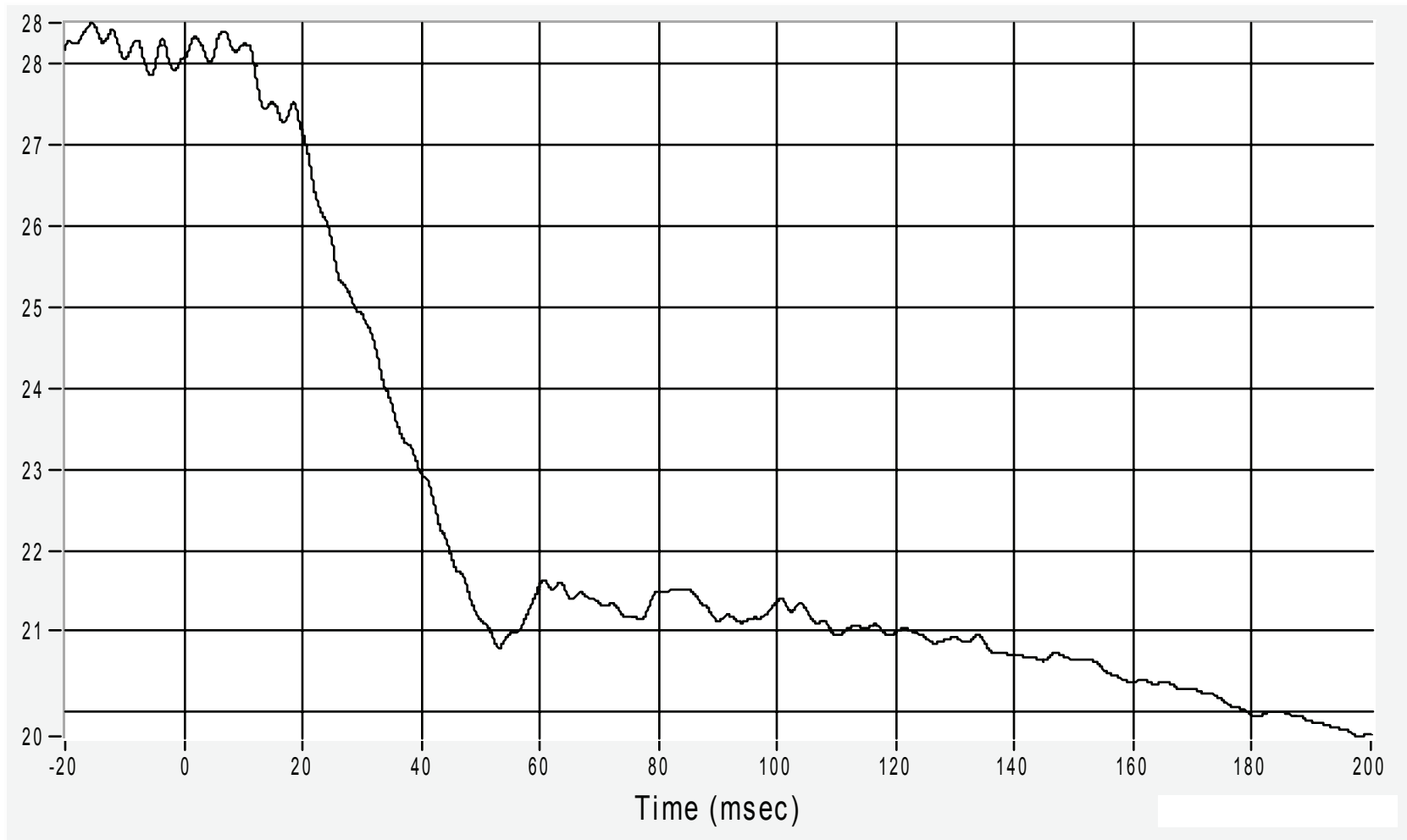
*Medical College of Wisconsin
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MDB Center of Gravity (Y) Velocity

Velocity (km/h) CFC180

Max 28.4 km/h at 6.9 msec

Min 19.7 km/h at 198.2 msec



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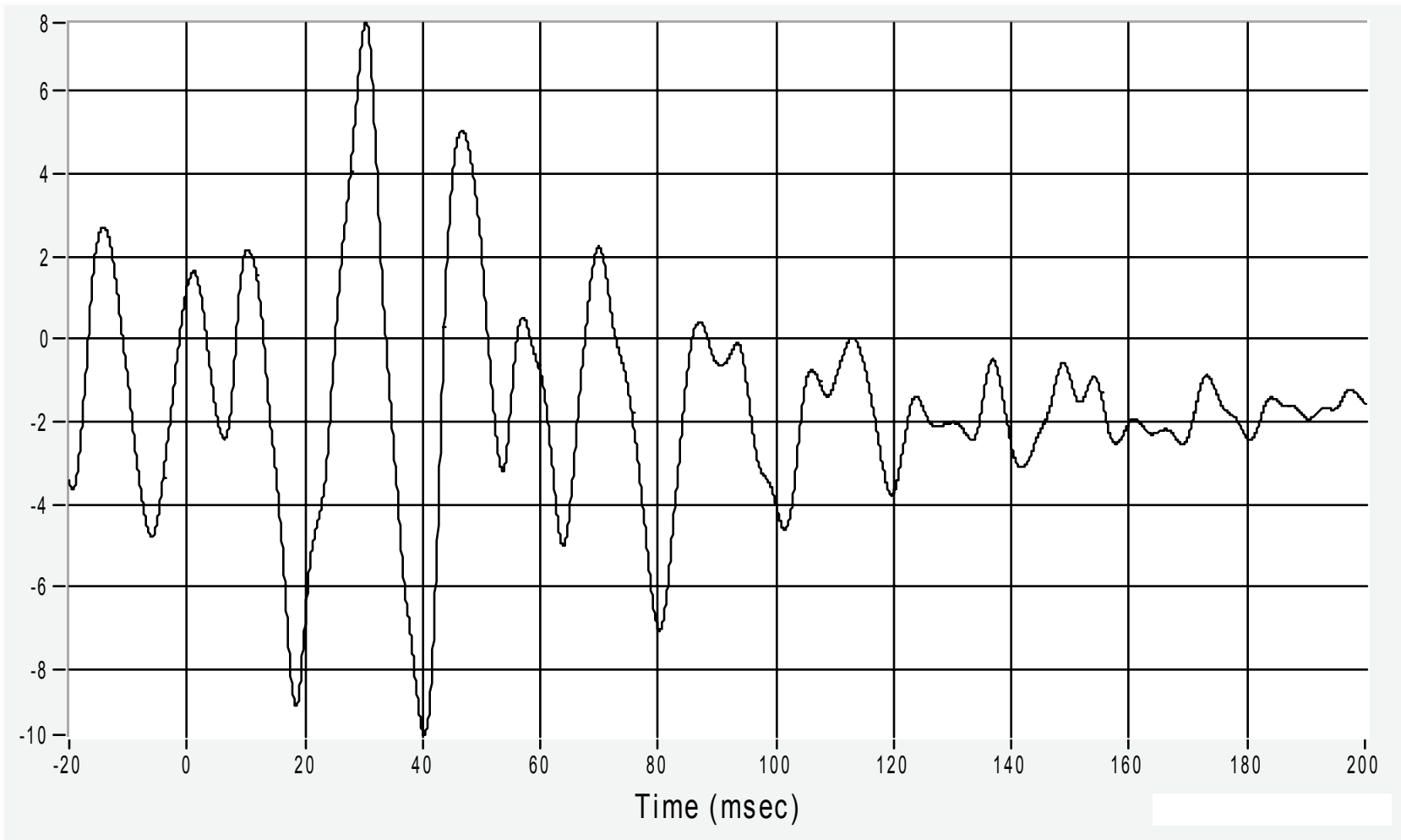
*Medical College of Wisconsin
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MDB Center of Gravity (Z) Acceleration

Acceleration (G's) CFC60

Max 7.6 G at 30.4 msec

Min -9.6 G at 40.3 msec



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22 August 2007

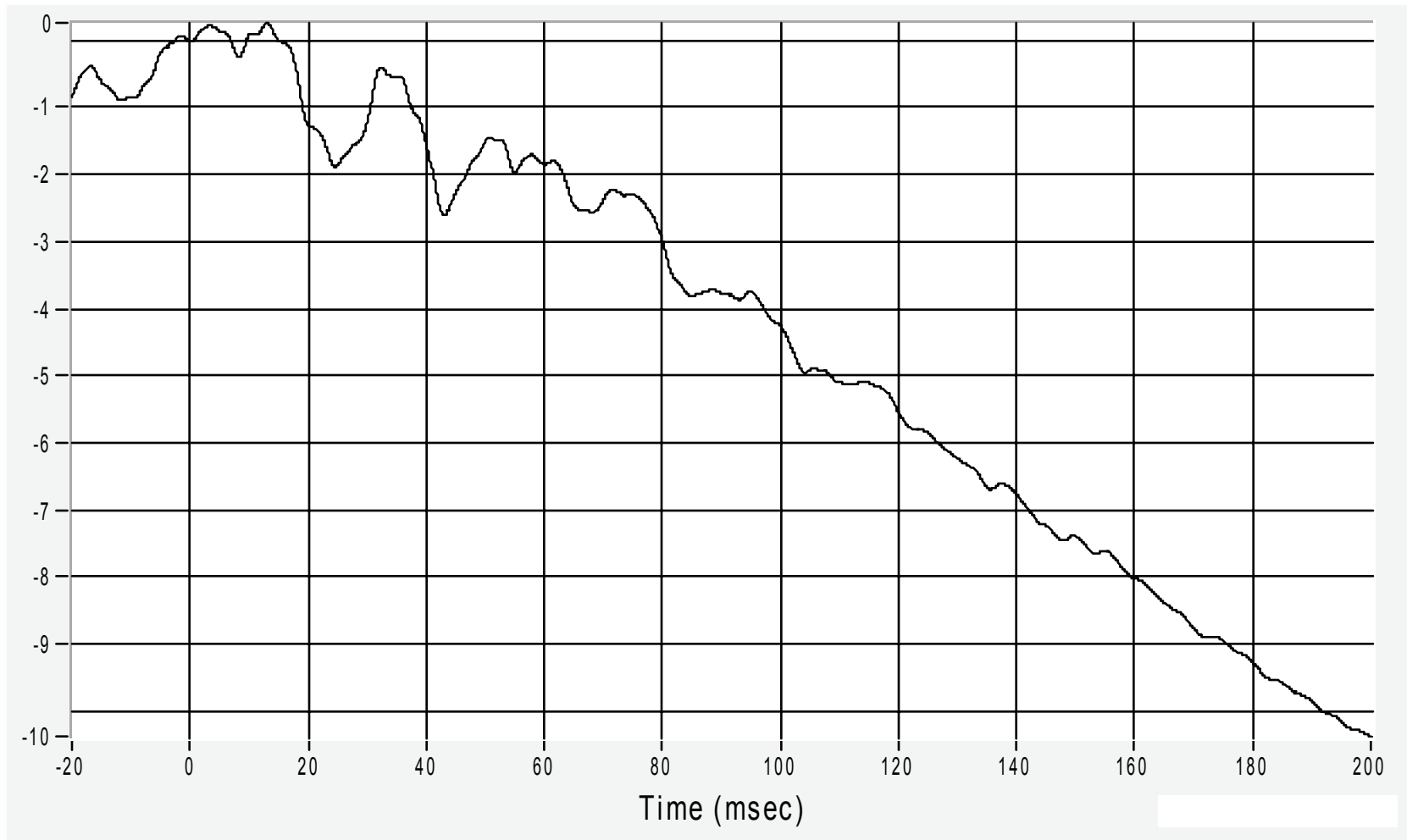
Medical College of Wisconsin
Vehicle Crashworthiness Lab

MDB Center of Gravity (Z) Velocity

Velocity (km/h) CFC180

Max 0.3 km/h at 13.1 msec

Min -10.4 km/h at 199.9 msec



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22 August 2007

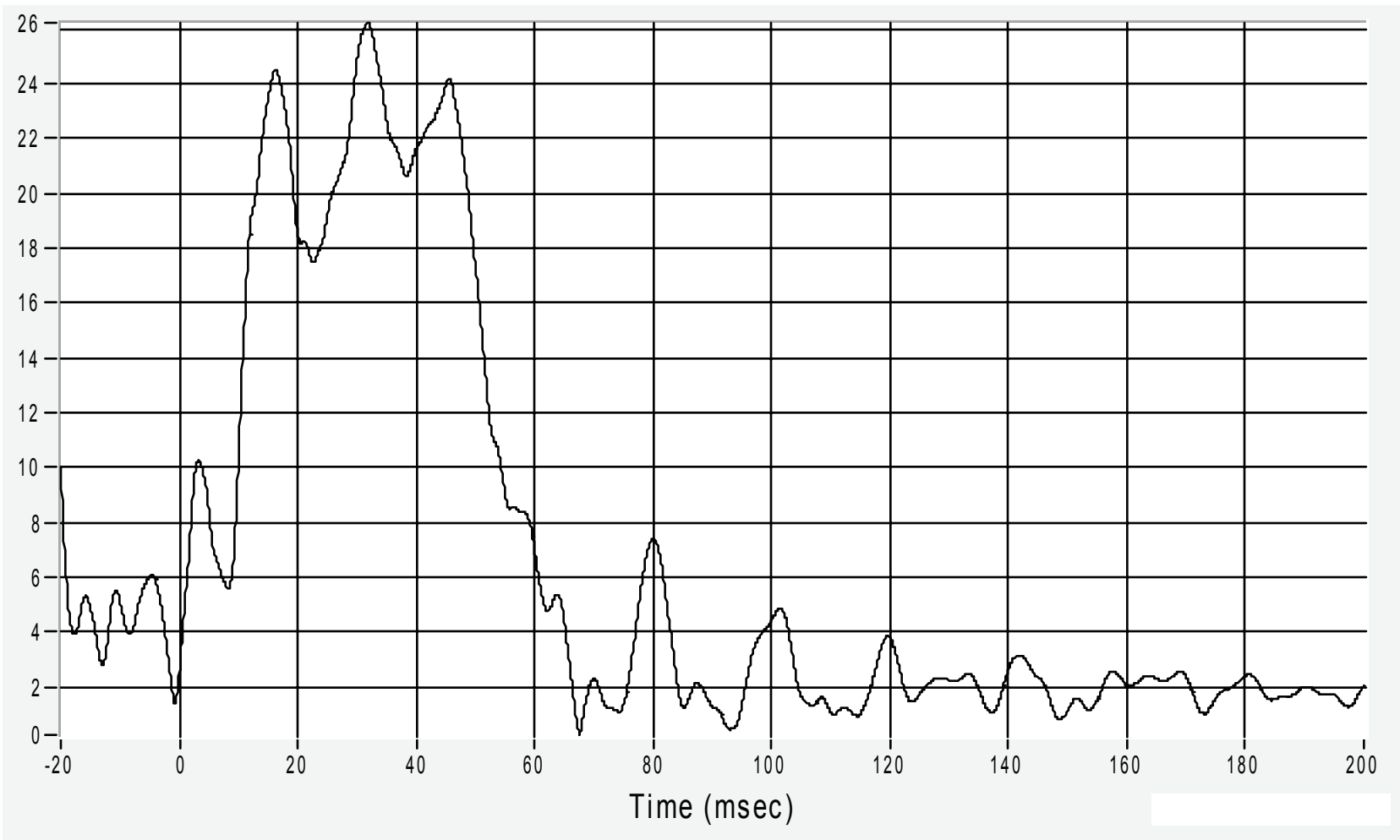
Medical College of Wisconsin
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MDB Center of Gravity Resultant Acceleration

Acceleration (G's) CFC60

Max 26.2 G's at 31.8 msec

Min 0.2 G's at 67.6 msec



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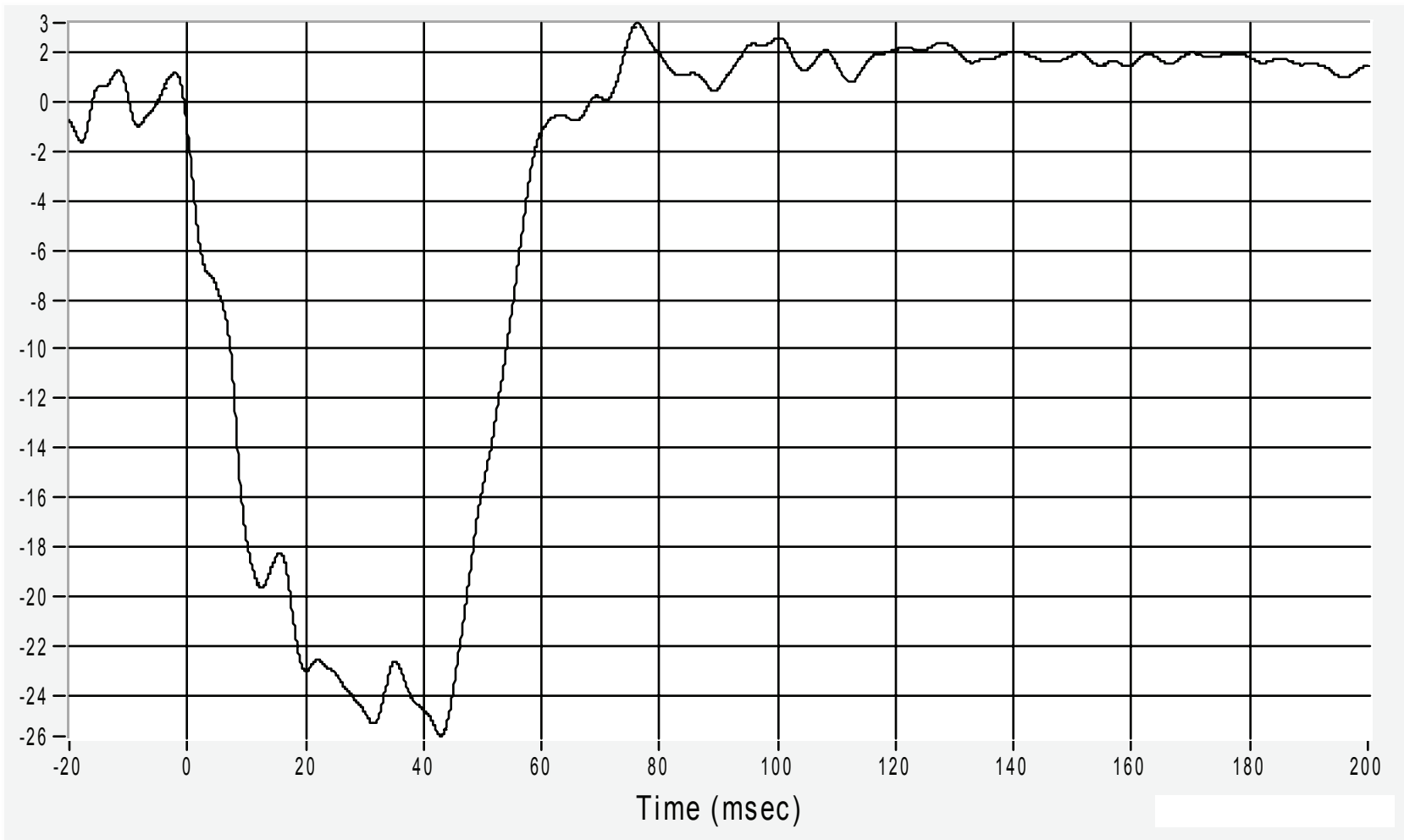
*Medical College of Wisconsin
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MDB Rear (X) Acceleration

Acceleration (G's) CFC60

Max 3.2 G at 76.2 msec

Min -25.7 G at 43.0 msec



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22 August 2007

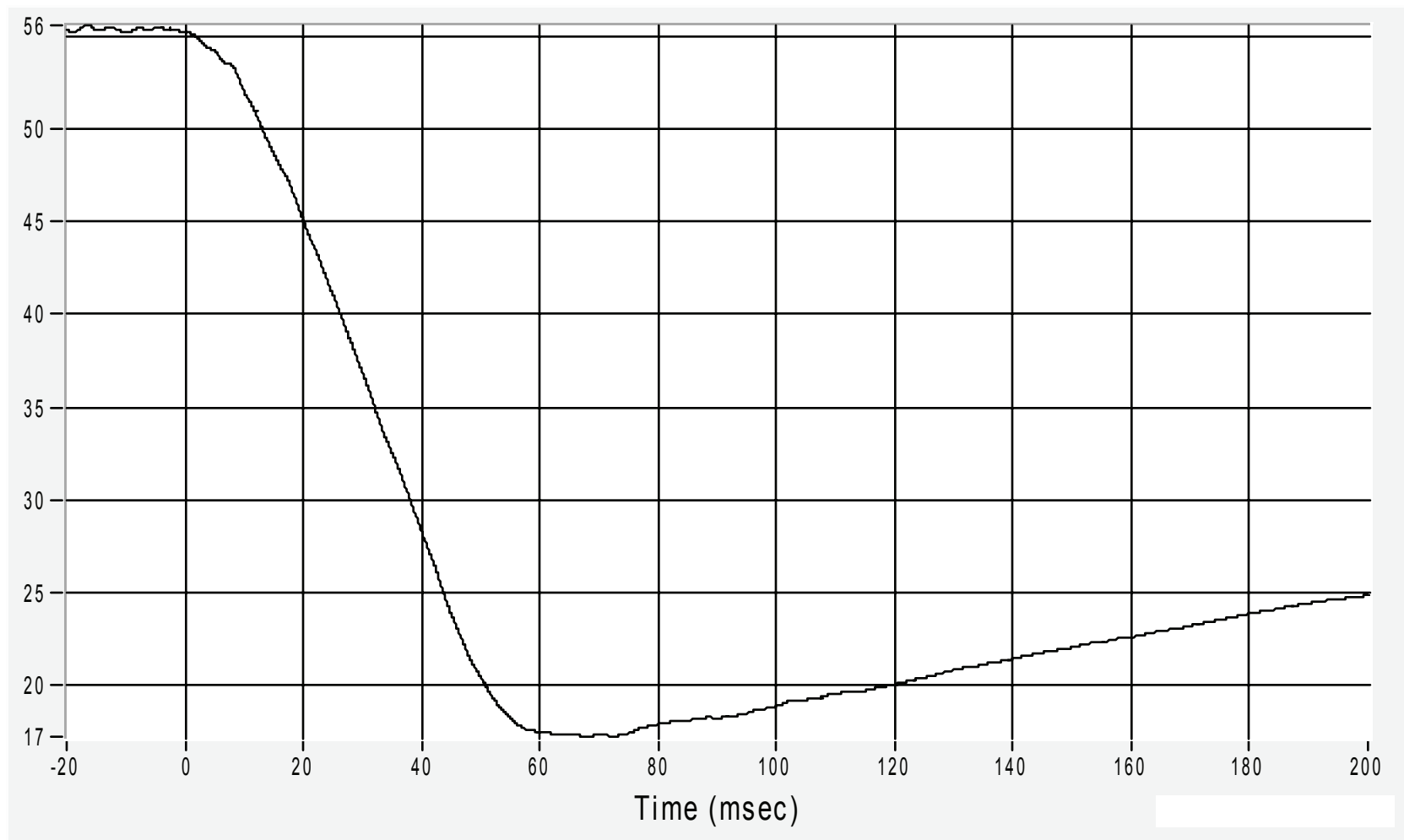
Medical College of Wisconsin
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MDB Rear (X) Velocity

Velocity (km/h) CFC180

Max 55.2 km/h at 0.0 msec

Min 17.3 km/h at 67.9 msec



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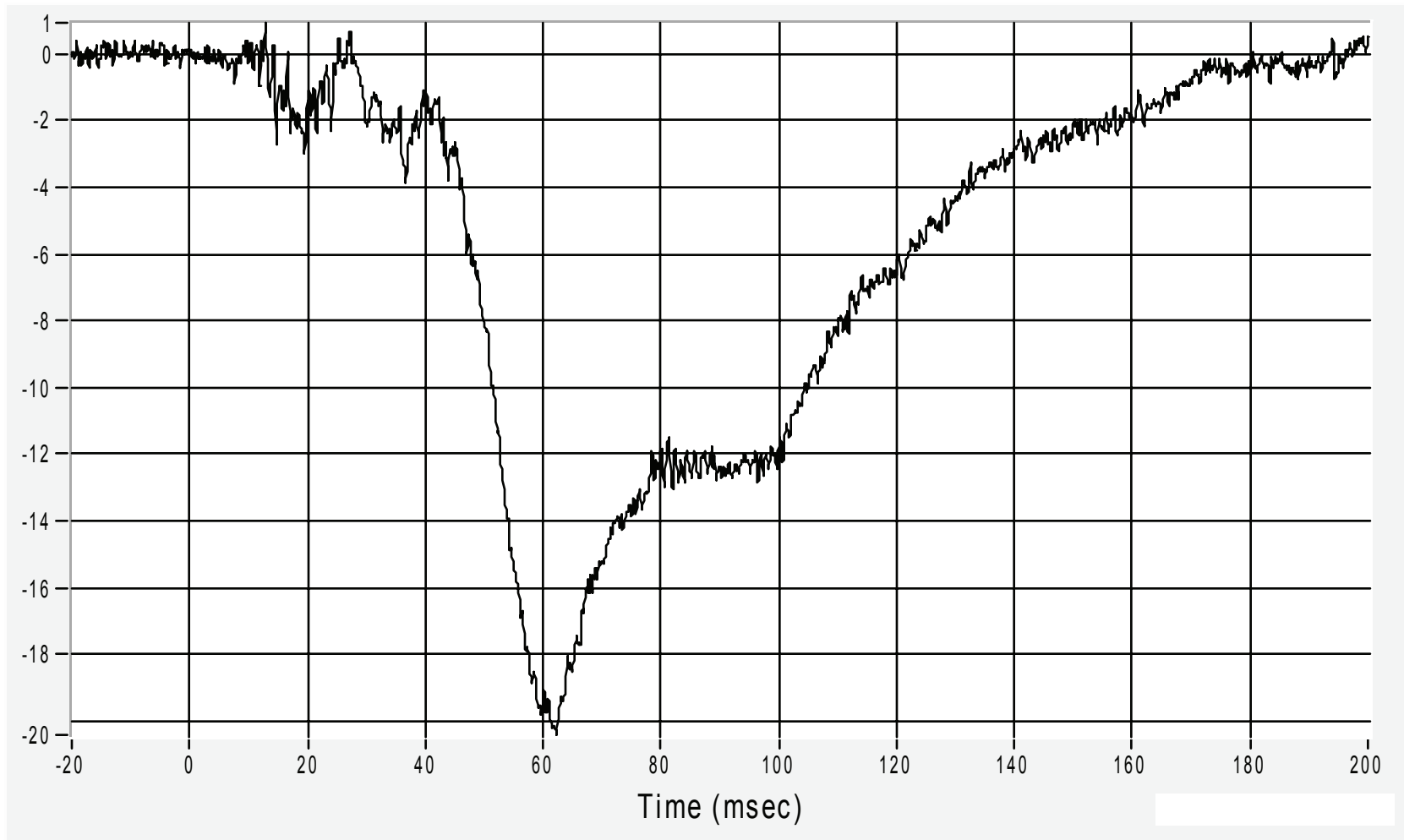
Medical College of Wisconsin
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Driver Head CG (X) - Redundant Acceleration

Acceleration (G's) CFC1000

Max 0.9 G at 12.8 msec

Min -20.4 G at 62.2 msec



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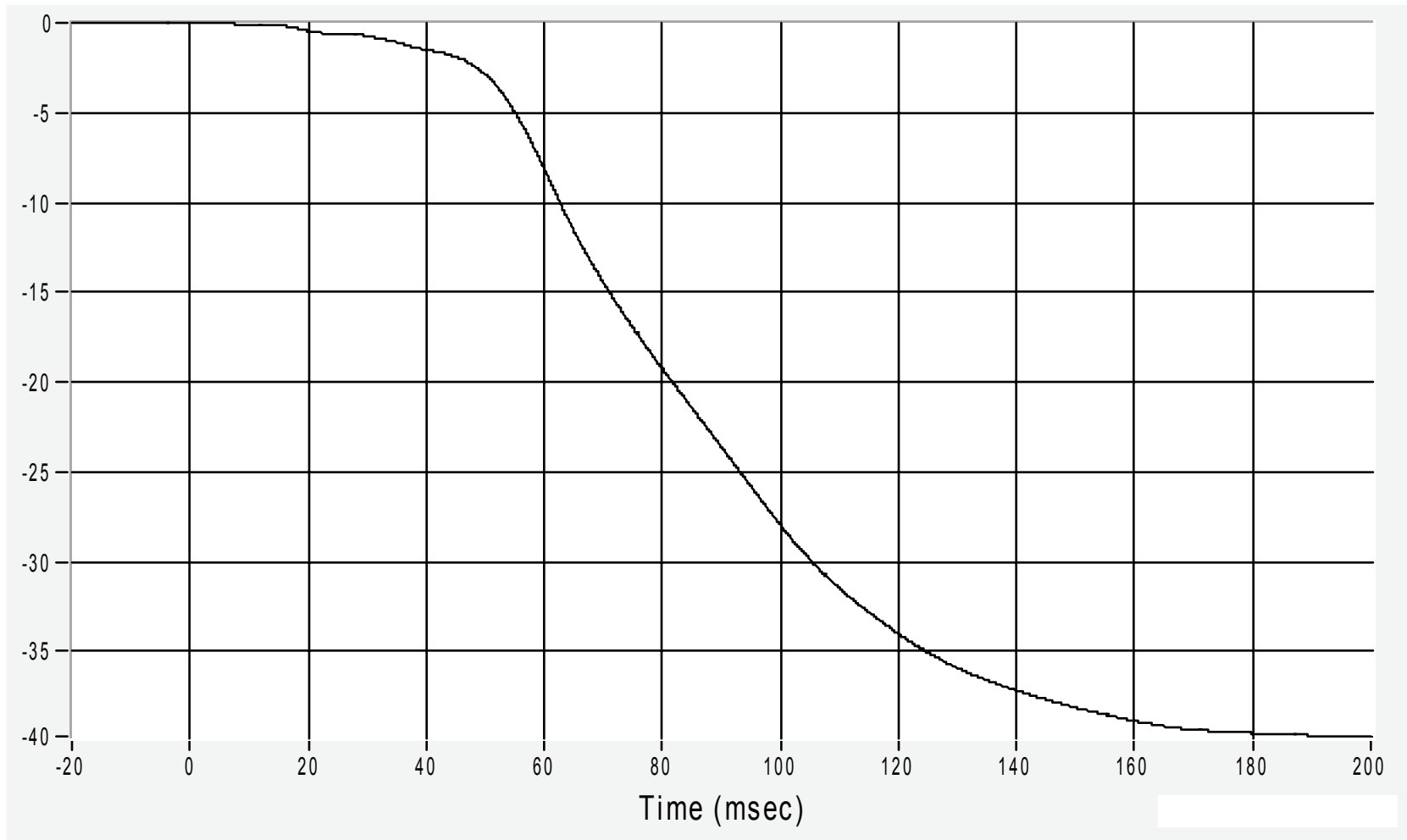
*Medical College of Wisconsin
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Driver Head CG (X) Velocity - Redundant

Velocity (km/h) CFC180

Max 0.0 km/h at 0.2 msec

Min -39.7 km/h at 196.4 msec



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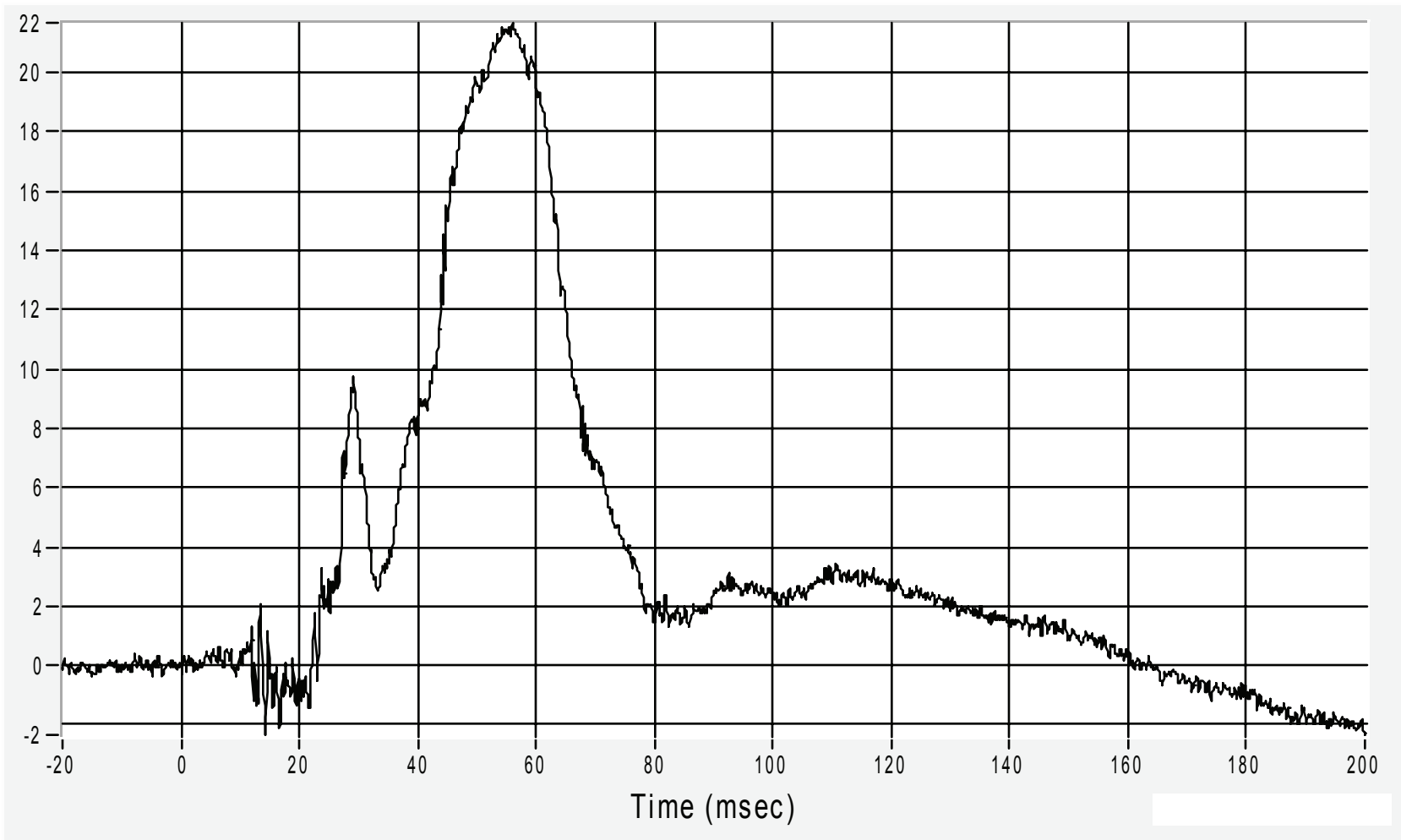
*Medical College of Wisconsin
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Driver Head CG (Y) - Redundant Acceleration

Acceleration (G's) CFC1000

Max 21.7 G at 56.0 msec

Min -2.3 G at 14.2 msec



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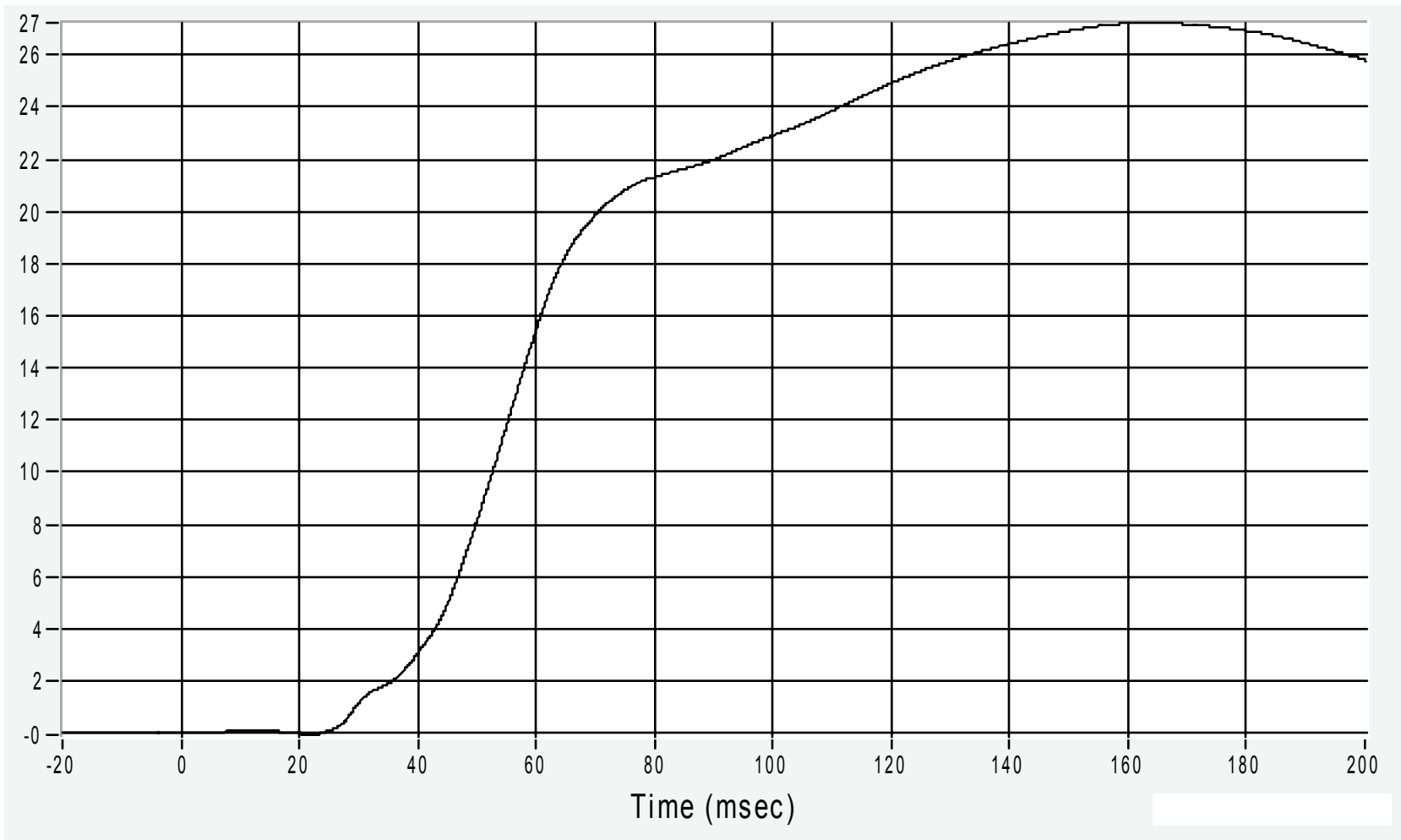
*Medical College of Wisconsin
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Driver Head CG (Y) Velocity - Redundant

Velocity (km/h) CFC180

Max 27.2 km/h at 164.2 msec

Min 0.0 km/h at 22.1 msec



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22 August 2007

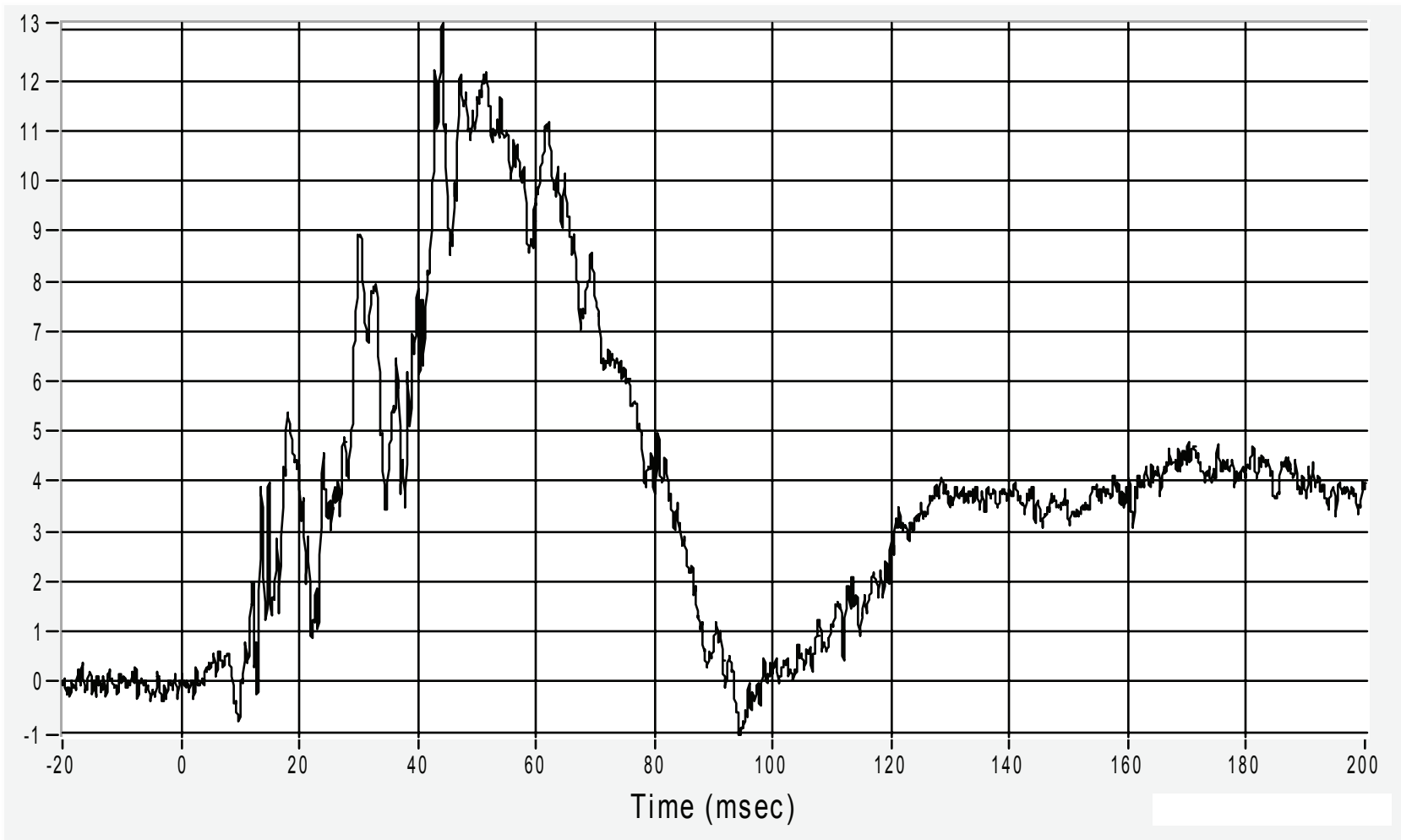
*Medical College of Wisconsin
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Driver Head CG (Z) - Redundant Acceleration

Acceleration (G's) CFC1000

Max 13.2 G at 44.2 msec

Min -1.1 G at 94.4 msec



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22 August 2007

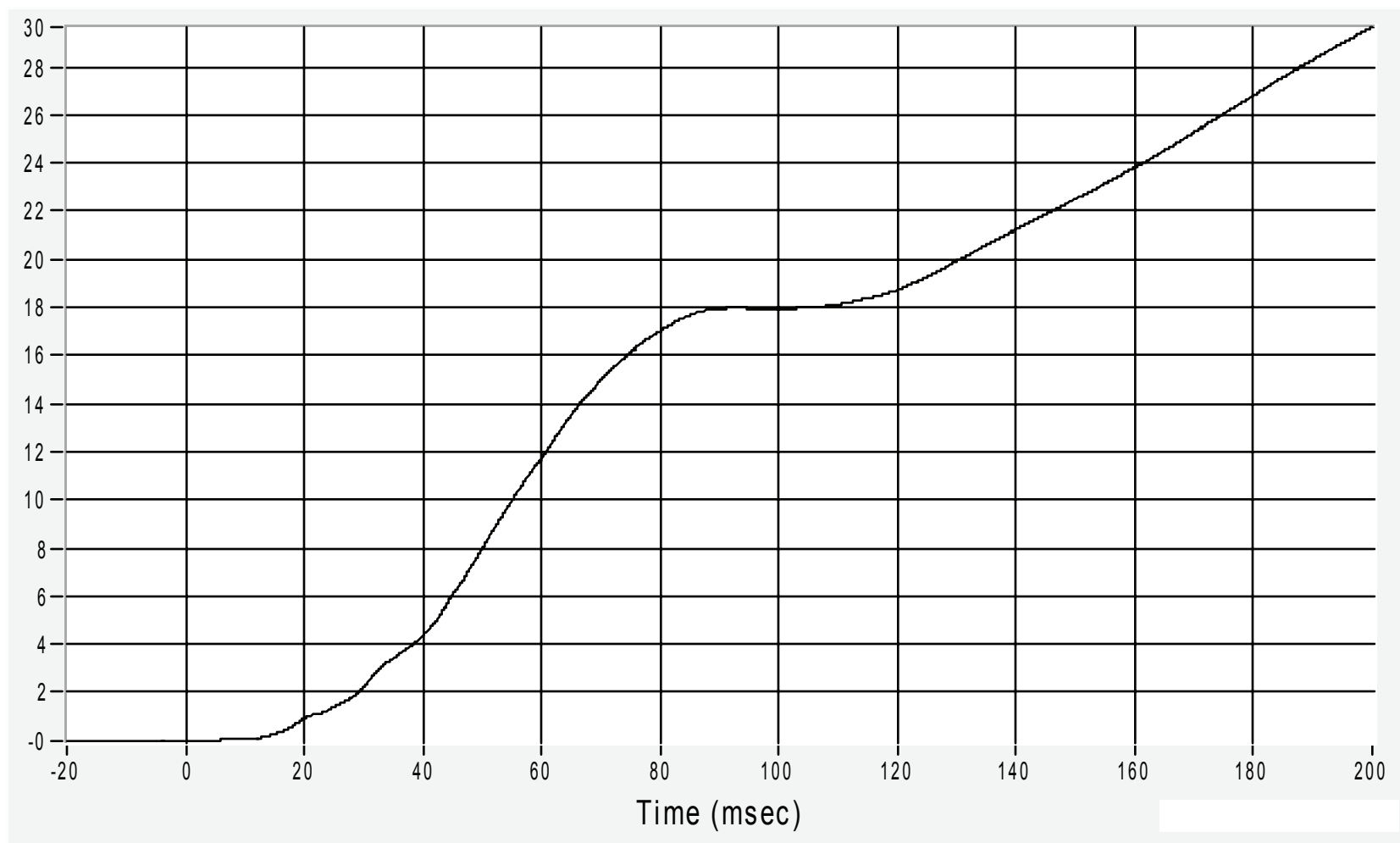
*Medical College of Wisconsin
Vehicle Crashworthiness Lab*

Driver Head CG (Z) Velocity - Redundant

Velocity (km/h) CFC180

Max 29.6 km/h at 199.9 msec

Min 0.0 km/h at 2.5 msec



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22 August 2007

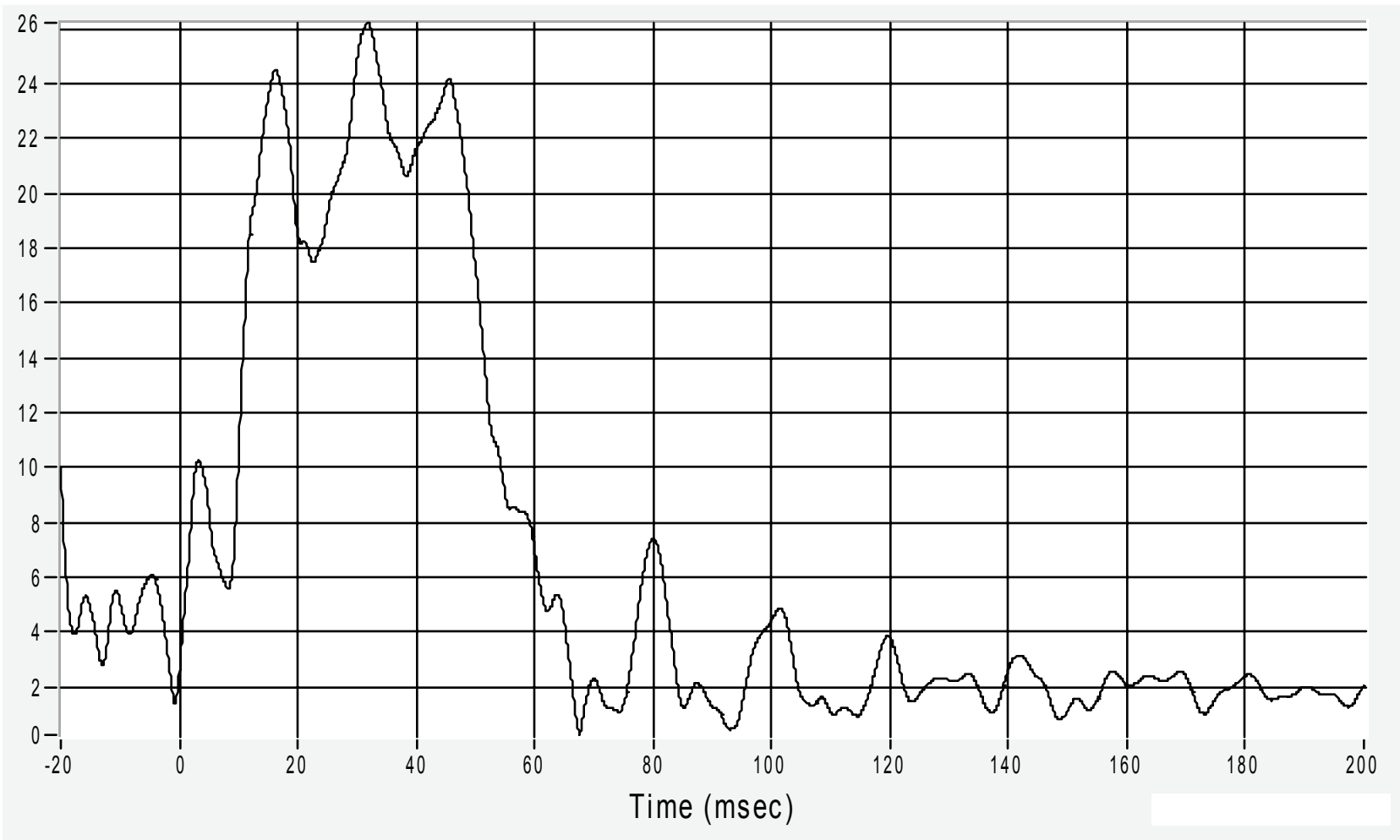
*Medical College of Wisconsin
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MDB Center of Gravity Resultant Acceleration

Acceleration (G's) CFC60

Max 26.2 G's at 31.8 msec

Min 0.2 G's at 67.6 msec



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22 August 2007

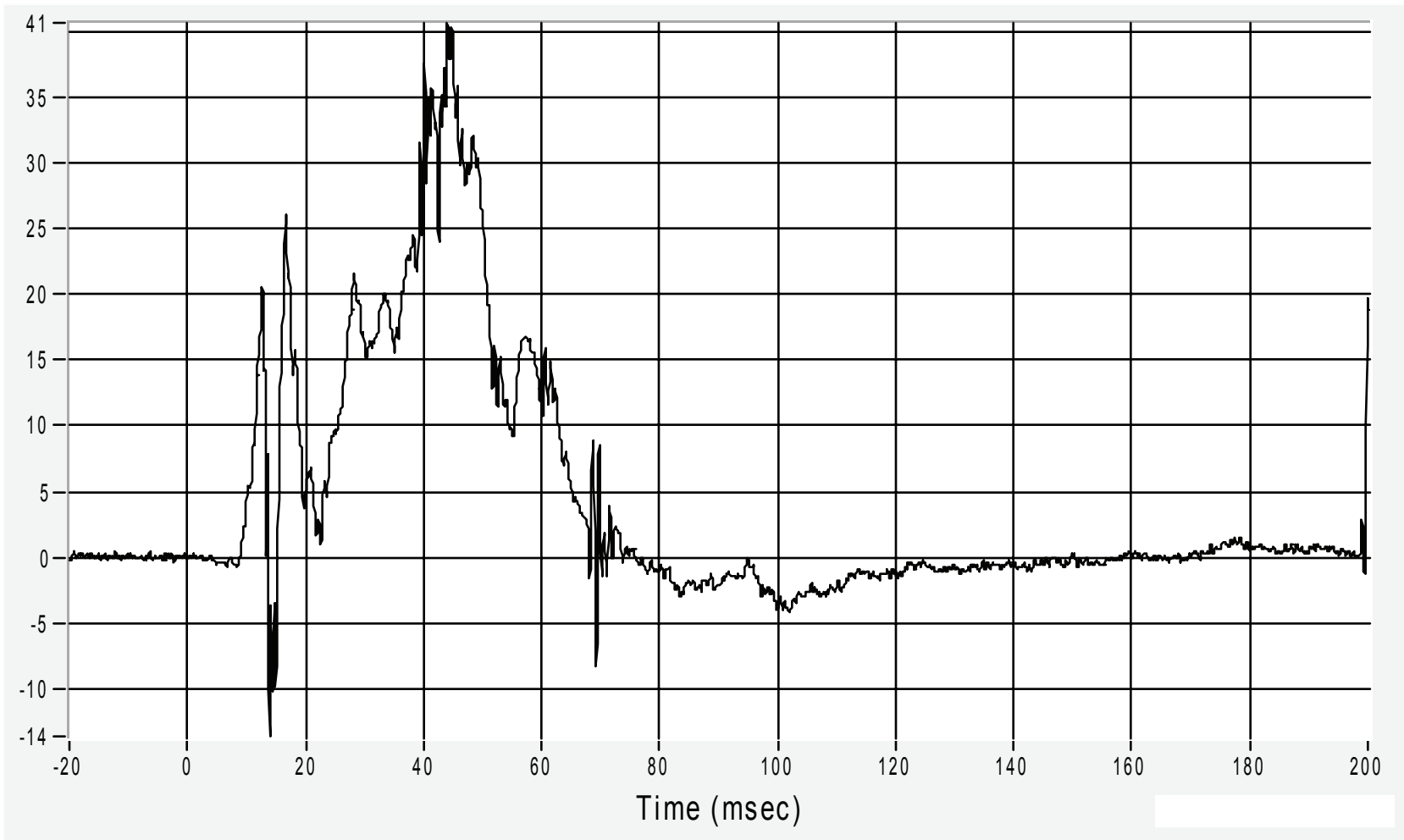
*Medical College of Wisconsin
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Driver Upper Rib (Y) - Redundant Acceleration

Acceleration (G's) CFC1000

Max 40.7 G at 44.1 msec

Min -13.7 G at 13.9 msec



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22 August 2007

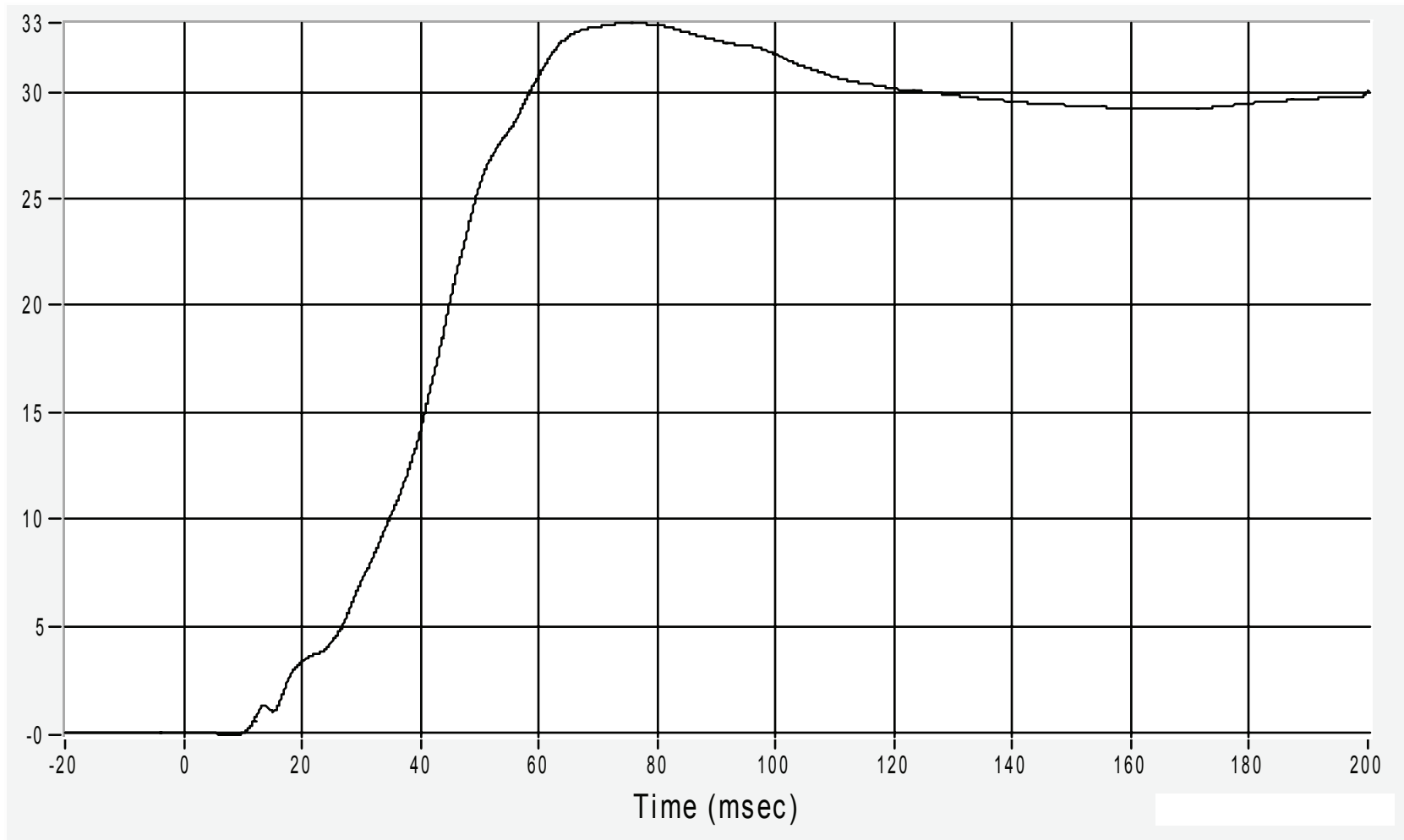
*Medical College of Wisconsin
Vehicle Crashworthiness Lab*

Driver Upper Rib (Y) Velocity - Redundant

Velocity (km/h) CFC180

Max 33.2 km/h at 75.8 msec

Min -0.1 km/h at 8.7 msec



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22 August 2007

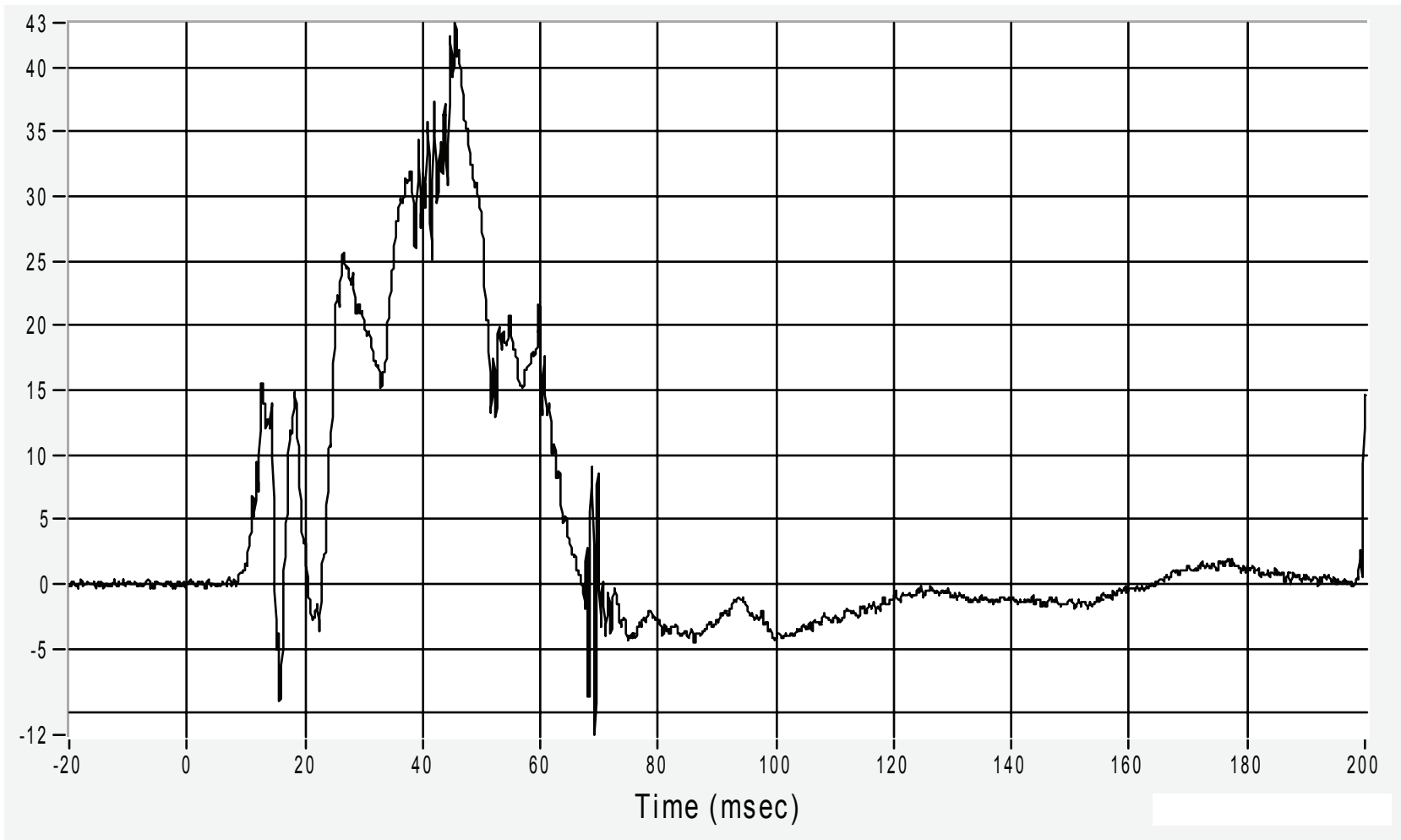
*Medical College of Wisconsin
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Driver Lower Rib (Y) - Redundant Acceleration

Acceleration (G's) CFC1000

Max 43.5 G at 45.6 msec

Min -11.7 G at 69.3 msec



08SN01 - 2008 FORD MUSTANG 2-DOOR COUPE

22 August 2007

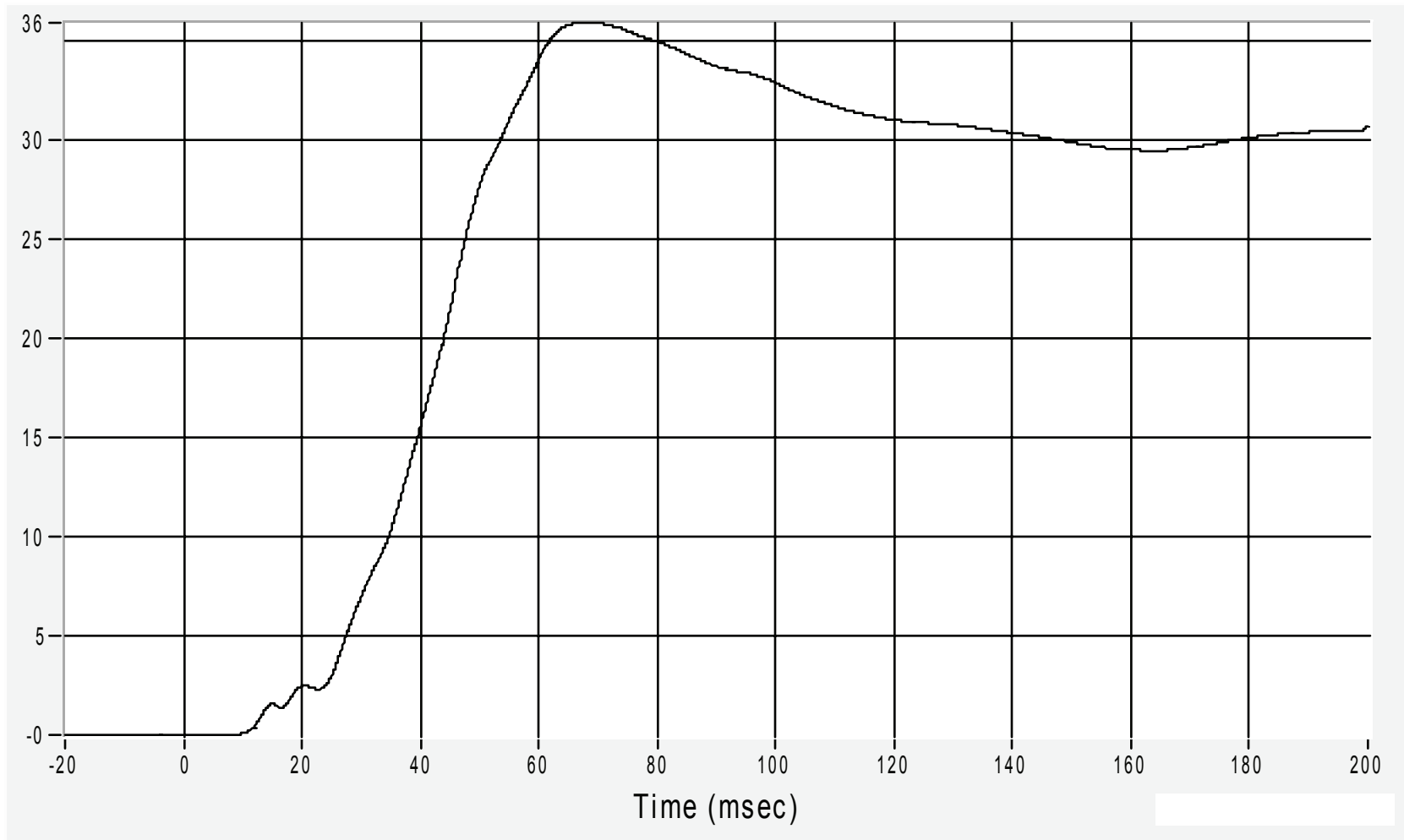
*Medical College of Wisconsin
Vehicle Crashworthiness Lab*

Driver Lower Rib (Y) Velocity - Redundant

Velocity (km/h) CFC180

Max 35.9 km/h at 67.0 msec

Min 0.0 km/h at 0.0 msec



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22 August 2007

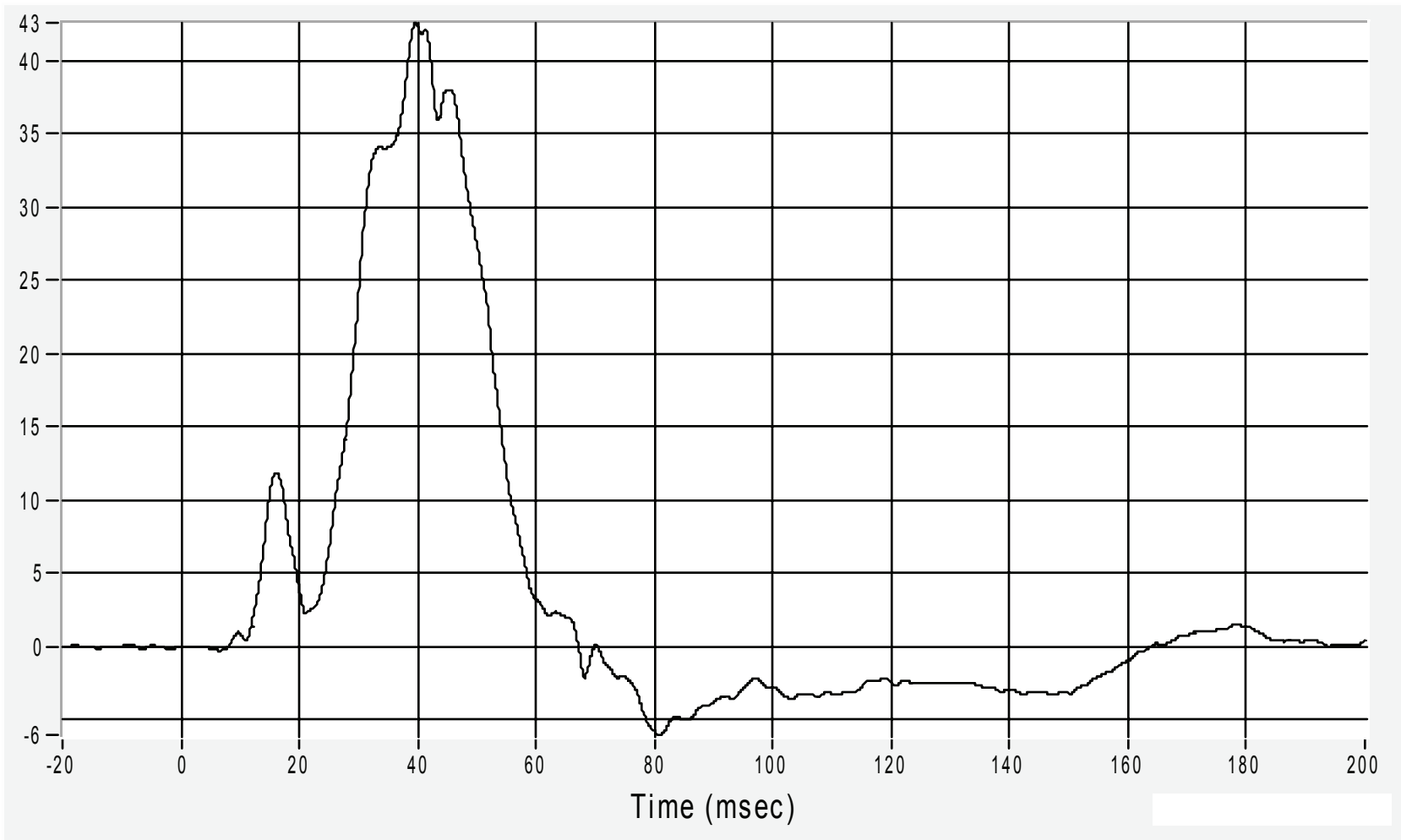
*Medical College of Wisconsin
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Driver Lower Spine (Y) - Redundant Acceleration

Acceleration (G's) CFC180

Max 42.6 G at 39.6 msec

Min -6.0 G at 80.8 msec



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22 August 2007

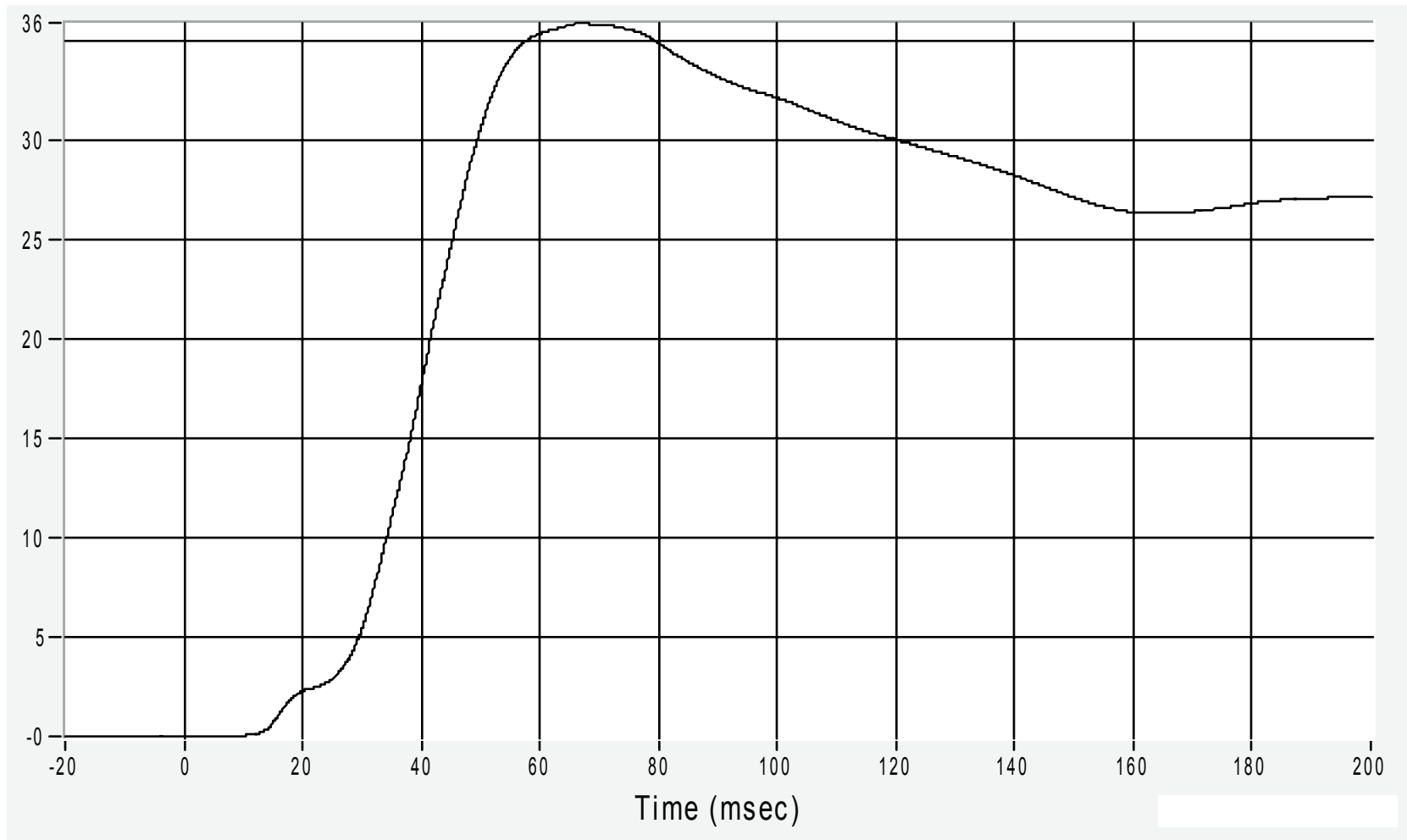
*Medical College of Wisconsin
Vehicle Crashworthiness Lab*

Driver Lower Spine (Y) Velocity - Redundant

Velocity (km/h) CFC180

Max 35.9 km/h at 67.2 msec

Min 0.0 km/h at 8.0 msec



08SN01 - 2008 FORD MUSTANG 2-DOOR COUPE

22 August 2007

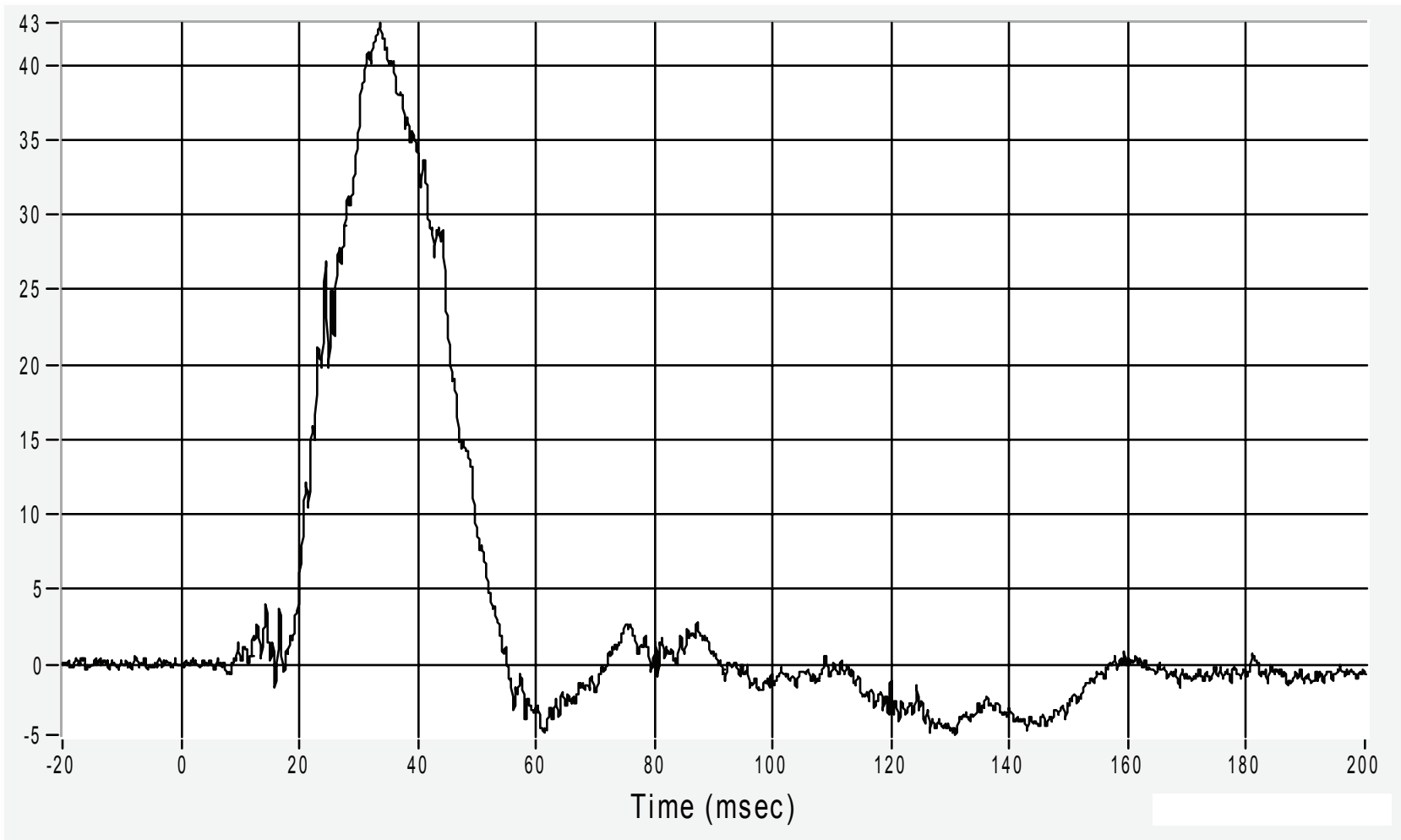
*Medical College of Wisconsin
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Driver Pelvic (Y) - Redundant Acceleration

Acceleration (G's) CFC1000

Max 42.8 G at 33.7 msec

Min -4.7 G at 130.8 msec



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22 August 2007

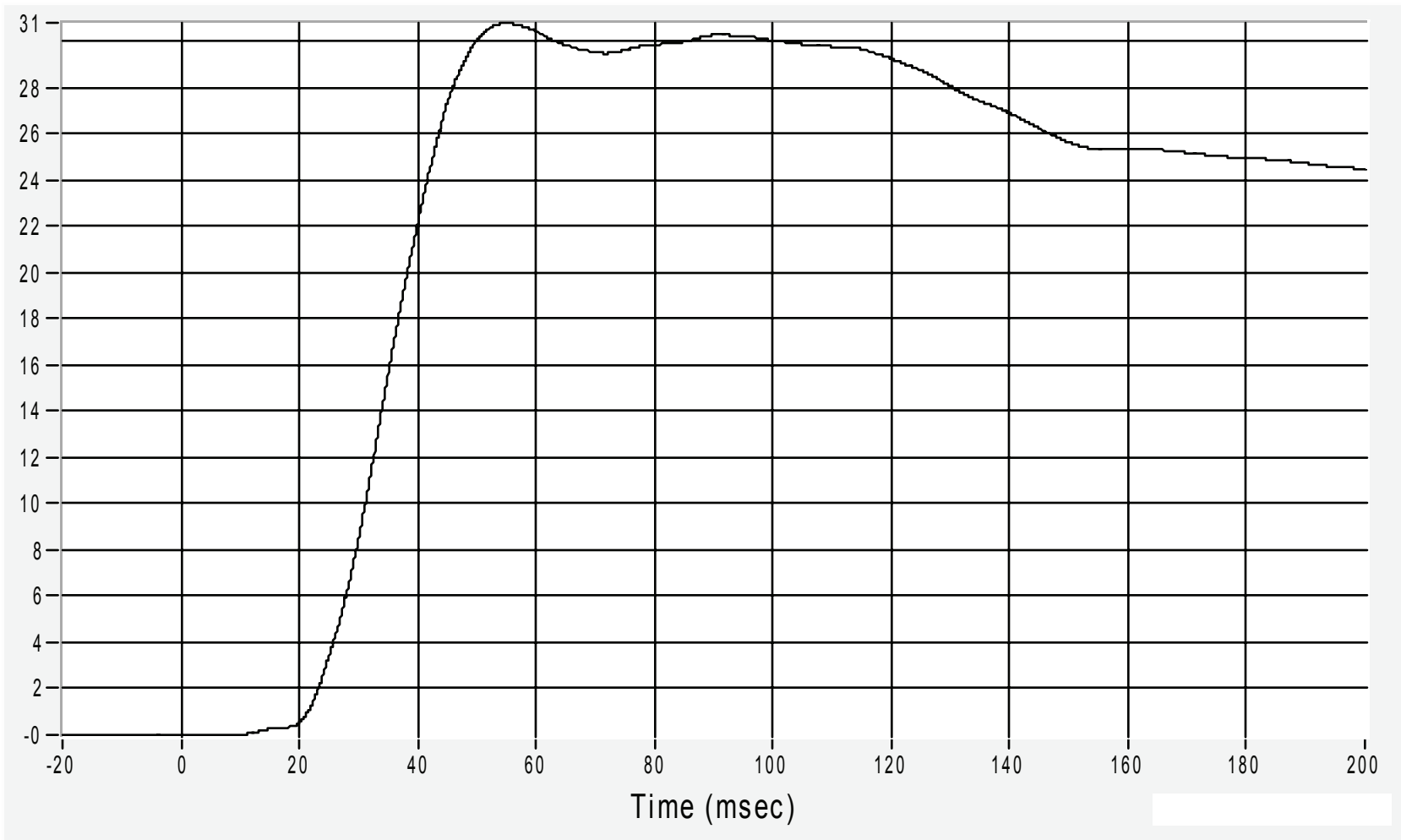
*Medical College of Wisconsin
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Driver Pelvic (Y) Velocity - Redundant

Velocity (km/h) CFC180

Max 30.8 km/h at 55.0 msec

Min 0.0 km/h at 8.7 msec



08SN01 - 2008 FORD MUSTANG 2-DOOR COUPE

22 August 2007

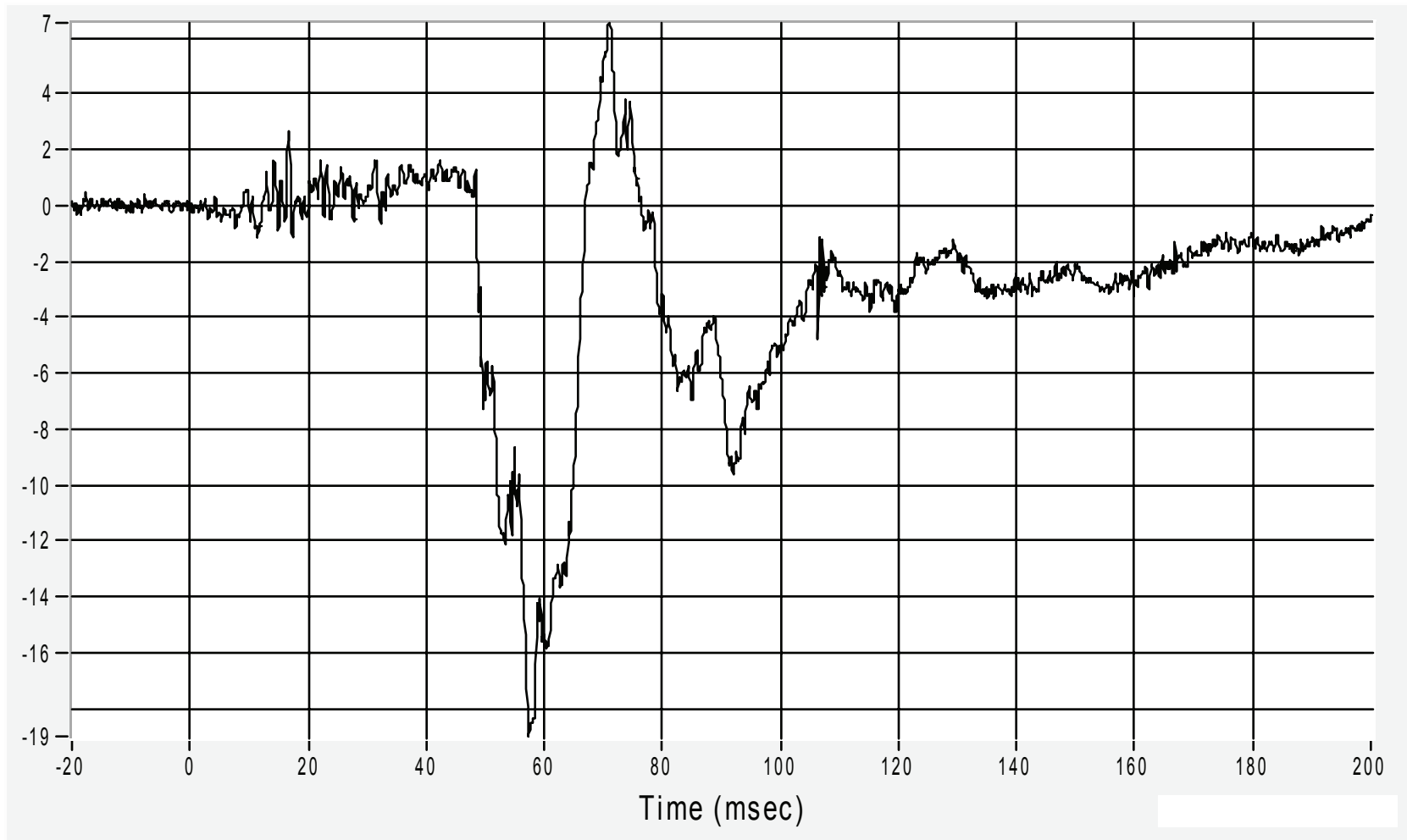
*Medical College of Wisconsin
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Passenger Head CG (X) - Redundant Acceleration

Acceleration (G's) CFC1000

Max 6.5 G at 70.9 msec

Min -19.0 G at 57.4 msec



08SN01 - 2008 FORD MUSTANG 2-DOOR COUPE

22 August 2007

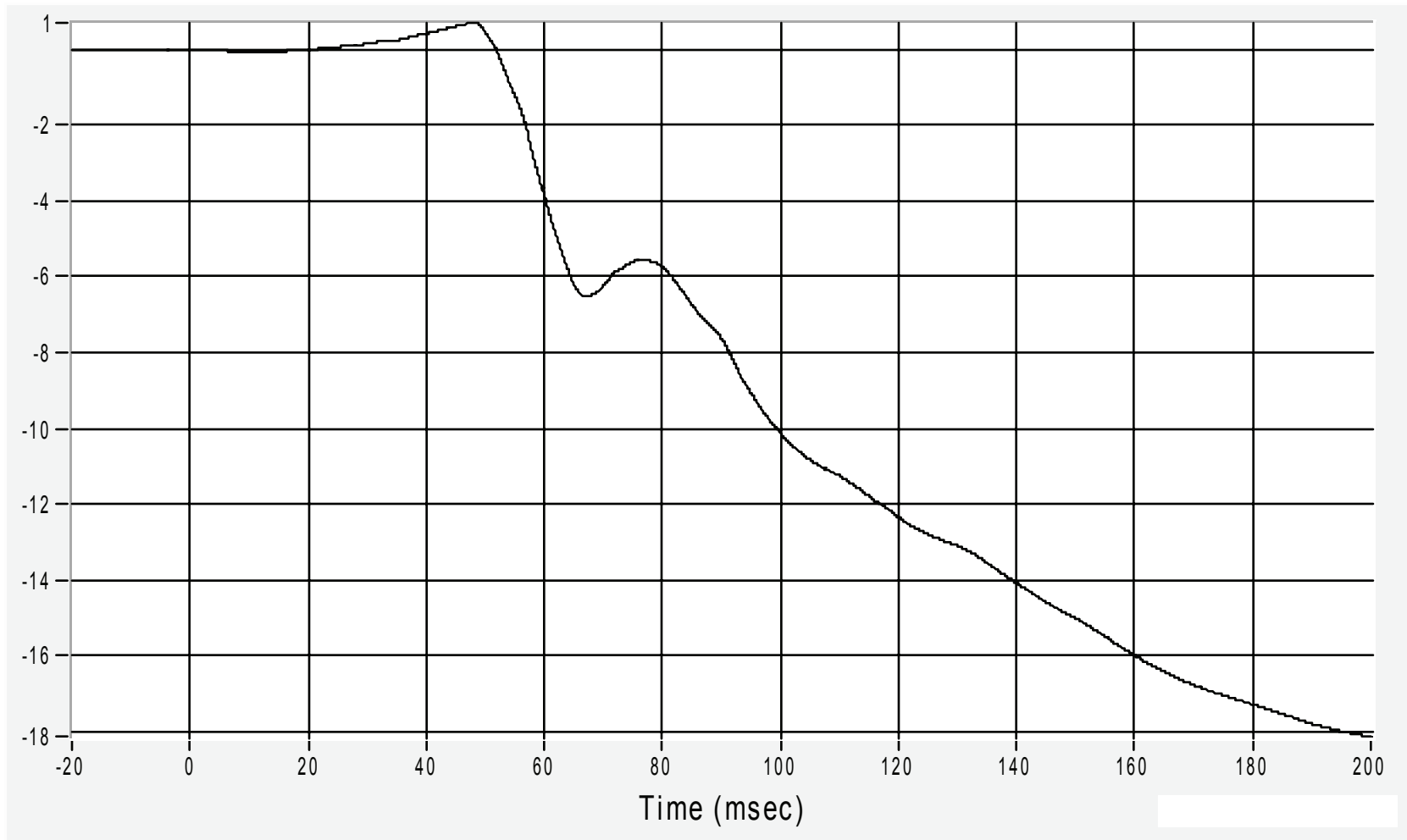
*Medical College of Wisconsin
Vehicle Crashworthiness Lab*

Passenger Head CG (X) Velocity - Redundant

Velocity (km/h) CFC180

Max 0.7 km/h at 48.1 msec

Min -18.1 km/h at 199.9 msec



08SN01 - 2008 FORD MUSTANG 2-DOOR COUPE

22 August 2007

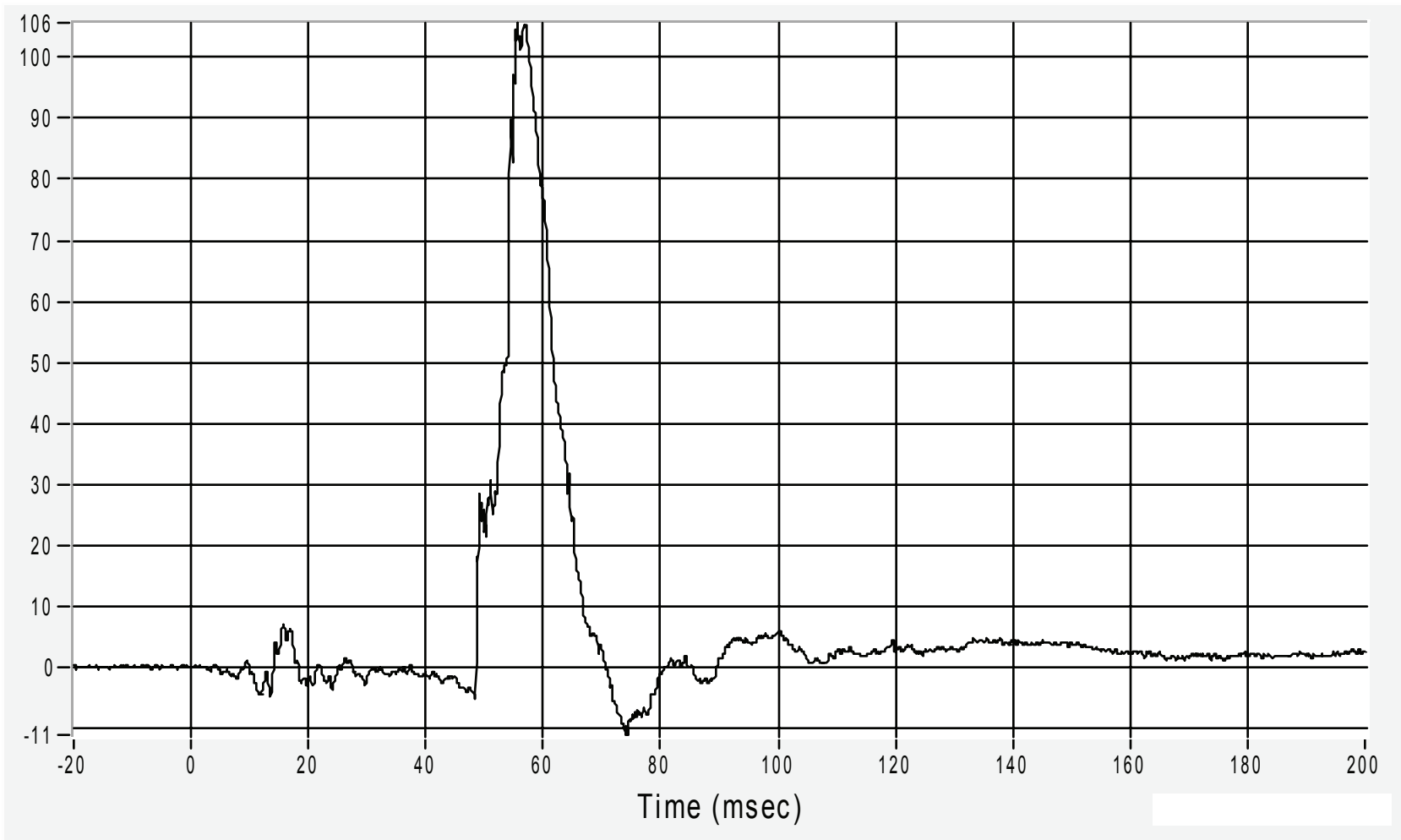
*Medical College of Wisconsin
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Passenger Head CG (Y) - Redundant Acceleration

Acceleration (G's) CFC1000

Max 105.7 G at 55.7 msec

Min -11.2 G at 74.4 msec



08SN01 - 2008 FORD MUSTANG 2-DOOR COUPE

22 August 2007

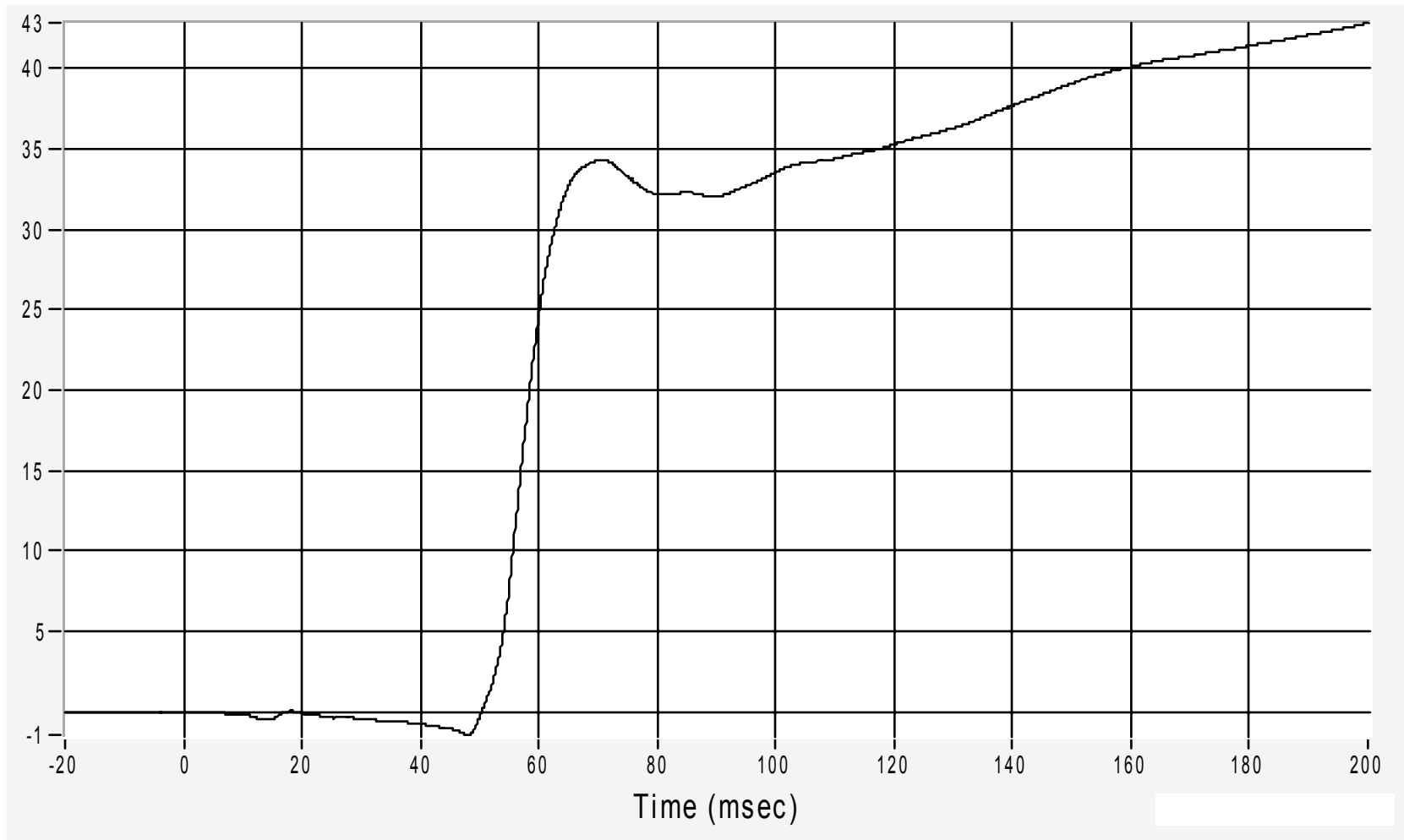
*Medical College of Wisconsin
Vehicle Crashworthiness Lab*

Passenger Head CG (Y) Velocity - Redundant

Velocity (km/h) CFC180

Max 42.8 km/h at 199.9 msec

Min -1.4 km/h at 48.1 msec



08SN01 - 2008 FORD MUSTANG 2-DOOR COUPE

22 August 2007

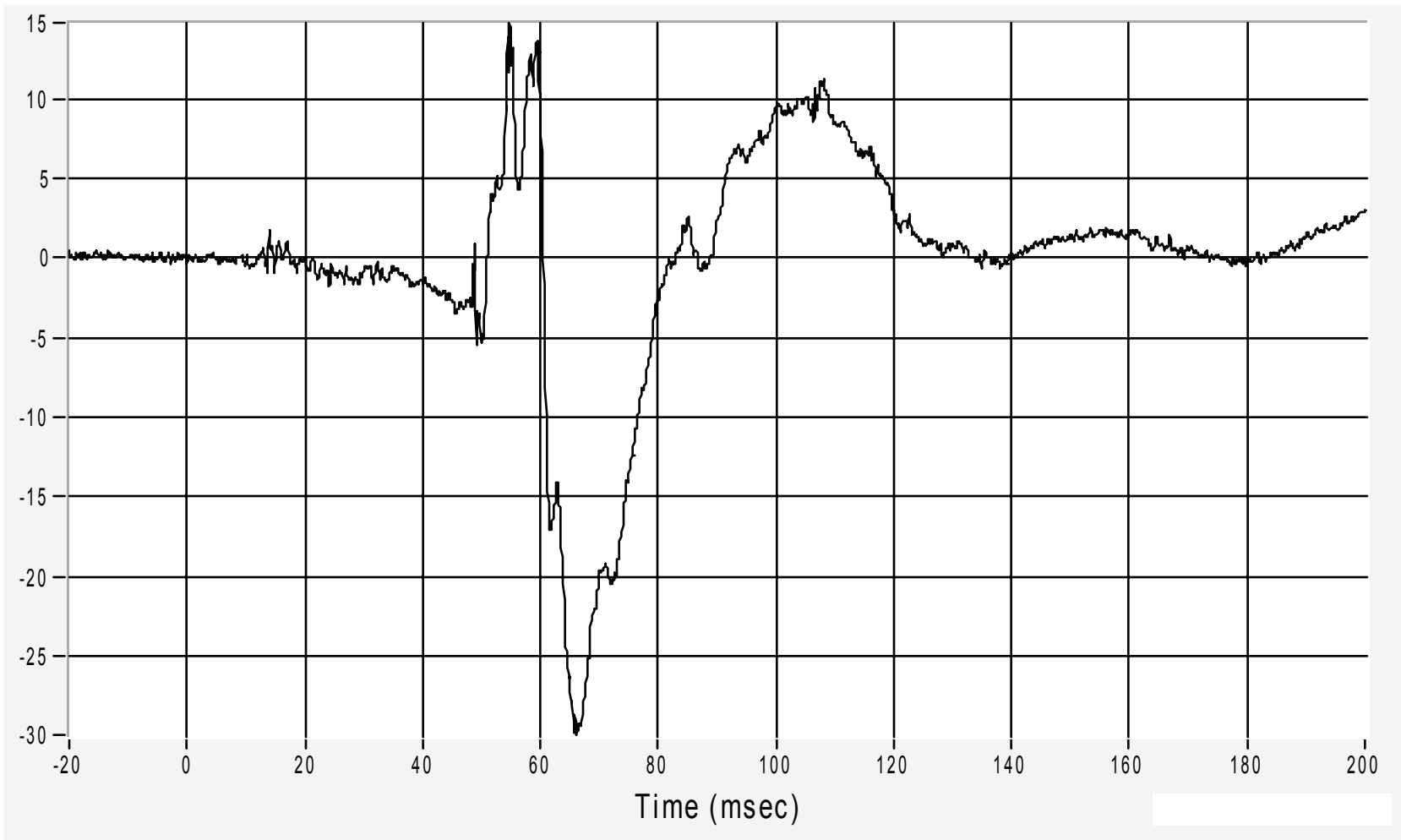
*Medical College of Wisconsin
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Passenger Head CG (Z) - Redundant Acceleration

Acceleration (G's) CFC1000

Max 14.7 G at 54.8 msec

Min -30.0 G at 66.1 msec



08SN01 - 2008 FORD MUSTANG 2-DOOR COUPE

22 August 2007

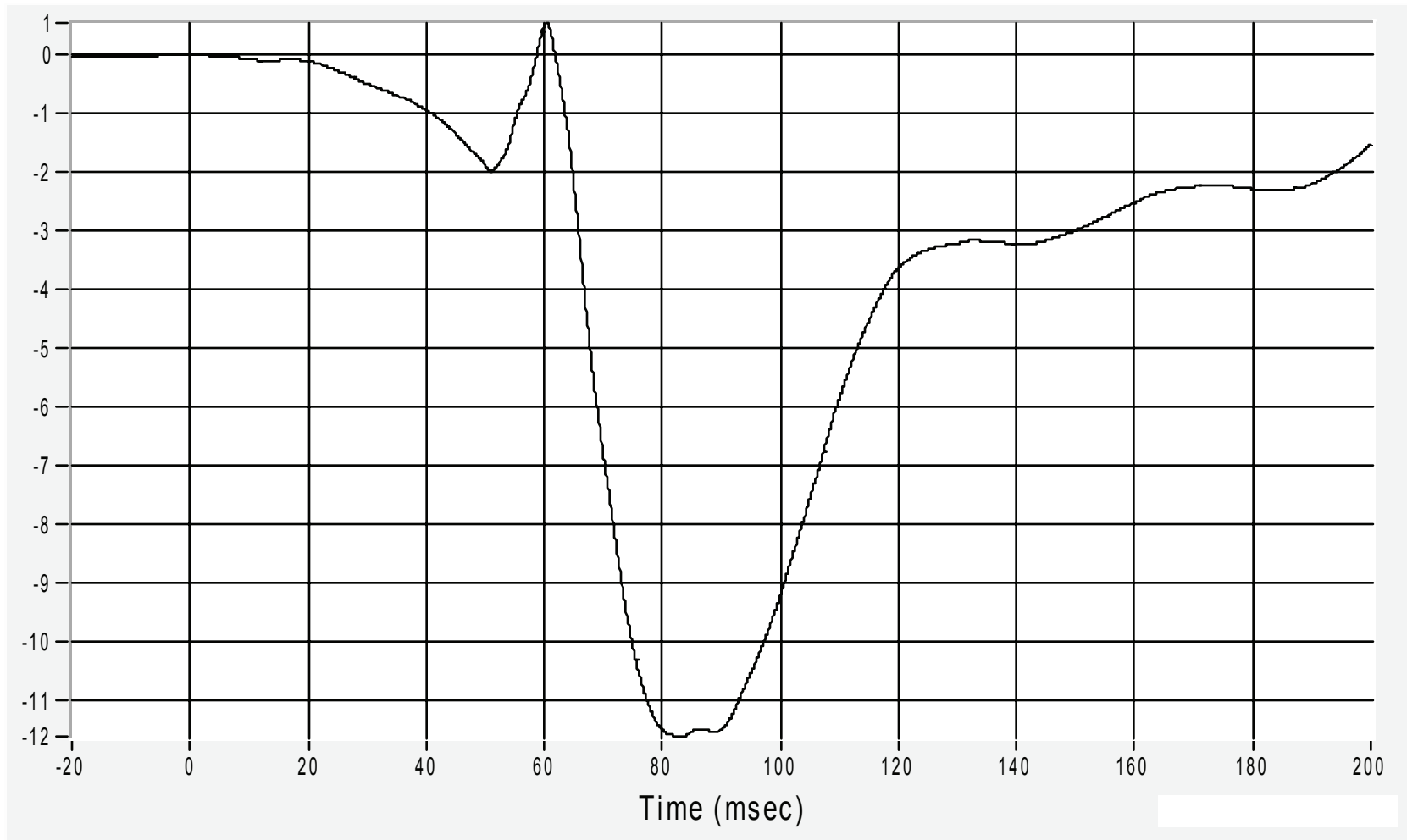
*Medical College of Wisconsin
Vehicle Crashworthiness Lab*

Passenger Head CG (Z) Velocity - Redundant

Velocity (km/h) CFC180

Max 0.5 km/h at 60.4 msec

Min -11.6 km/h at 83.0 msec



08SN01 - 2008 FORD MUSTANG 2-DOOR COUPE

22 August 2007

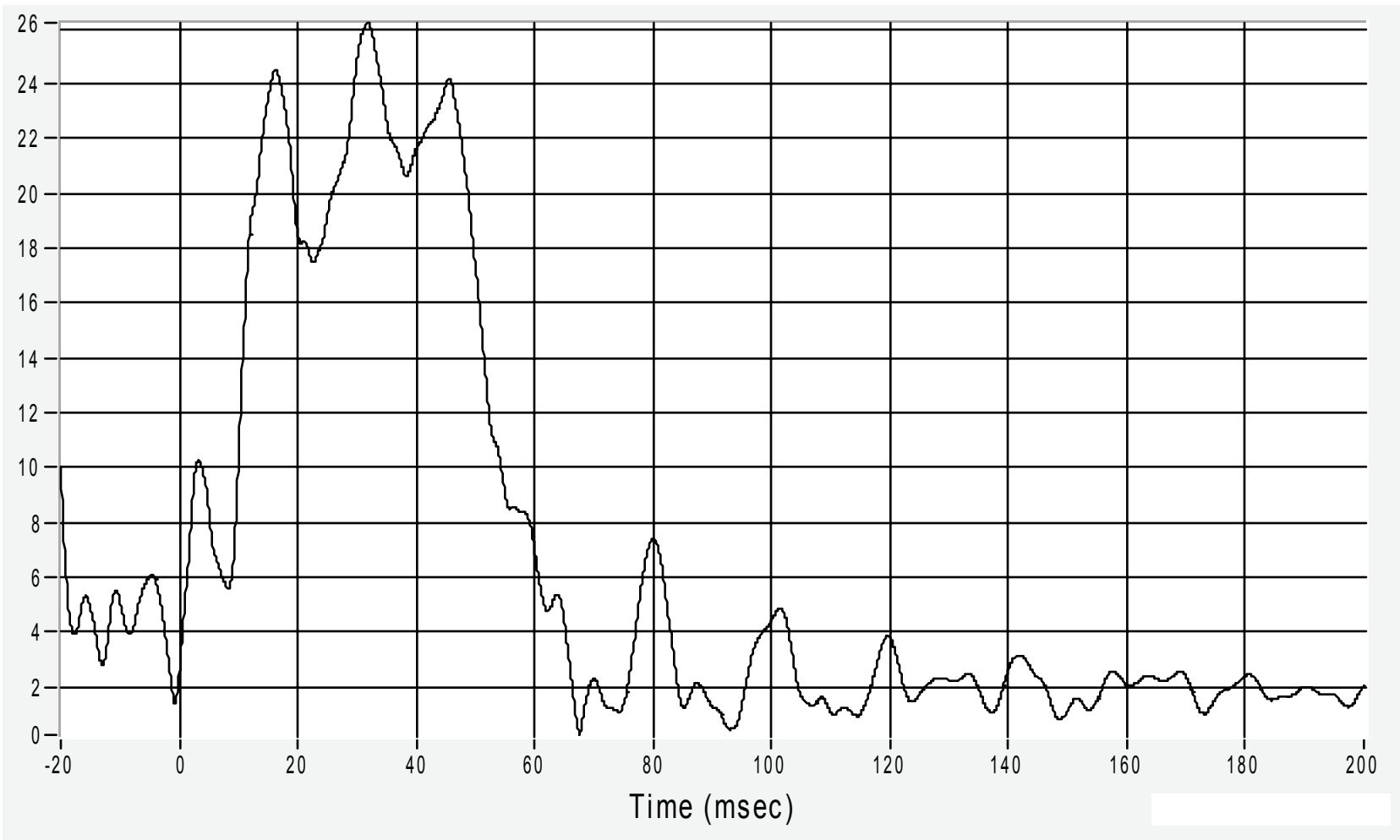
*Medical College of Wisconsin
Vehicle Crashworthiness Lab*

MDB Center of Gravity Resultant Acceleration

Acceleration (G's) CFC60

Max 26.2 G's at 31.8 msec

Min 0.2 G's at 67.6 msec



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22 August 2007

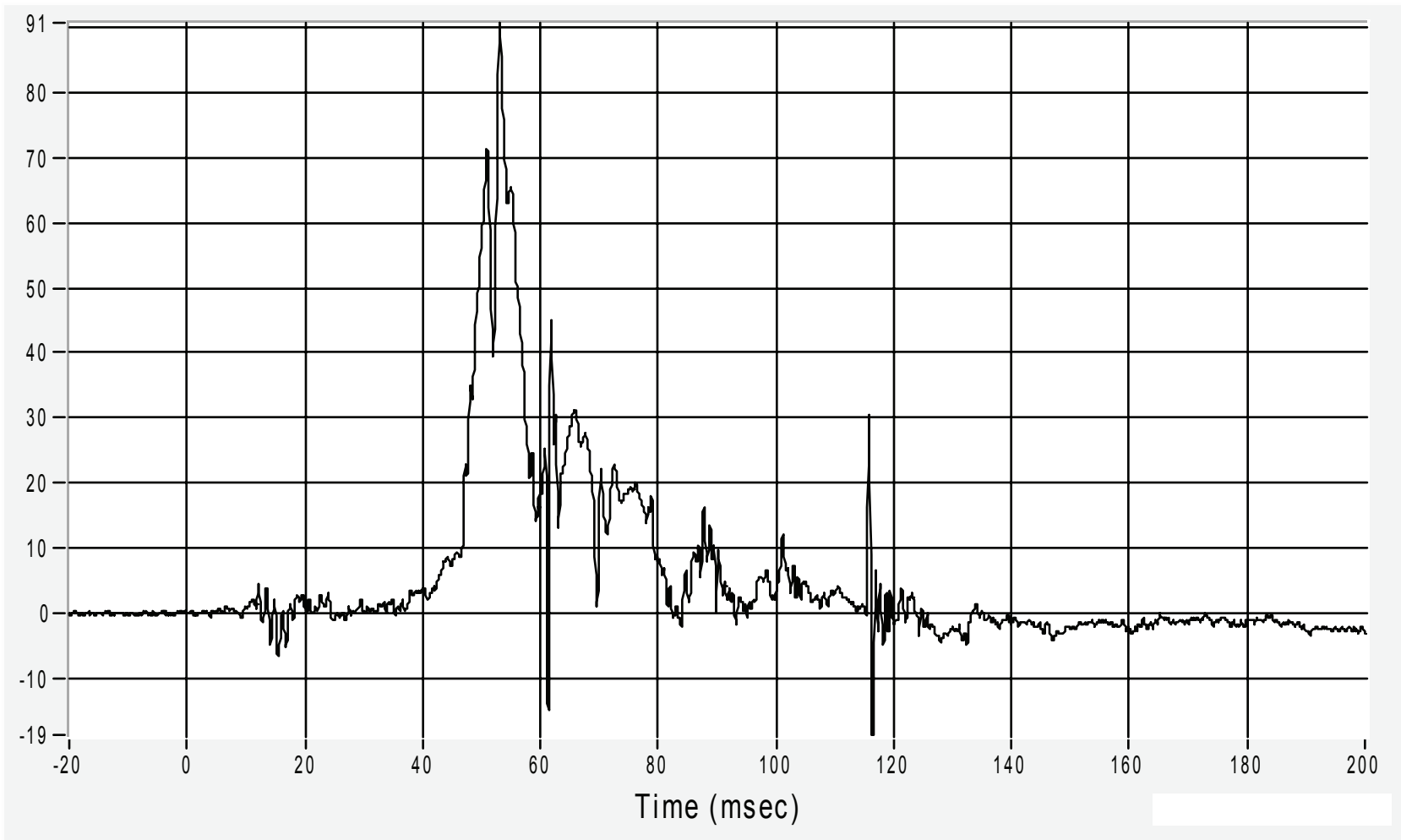
*Medical College of Wisconsin
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Passenger Upper Rib (Y) - Redundant Acceleration

Acceleration (G's) CFC1000

Max 90.7 G at 53.1 msec

Min -18.6 G at 116.4 msec



08SN01 - 2008 FORD MUSTANG 2-DOOR COUPE

22 August 2007

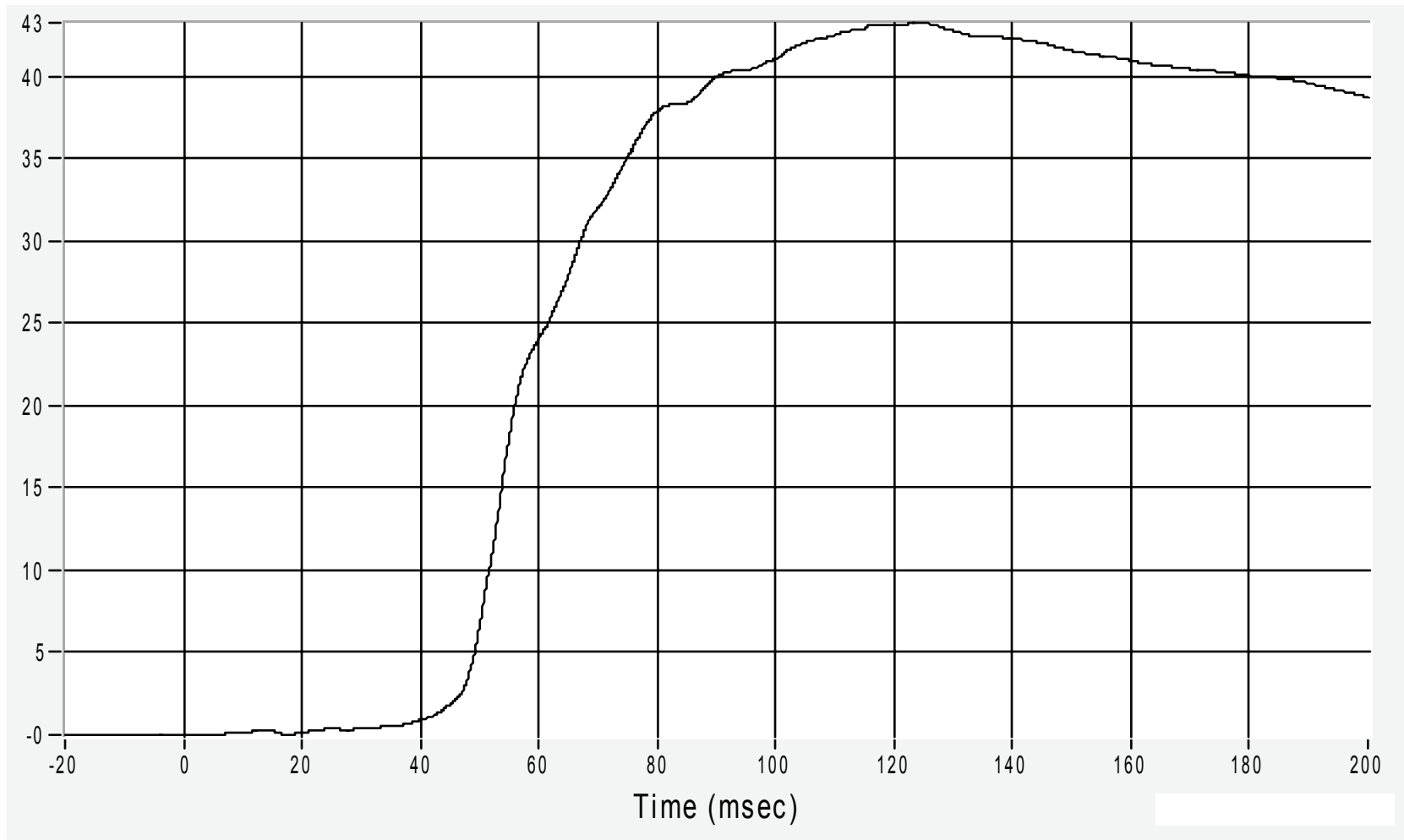
*Medical College of Wisconsin
Vehicle Crashworthiness Lab*

Passenger Upper Rib (Y) Velocity - Redundant

Velocity (km/h) CFC180

Max 43.3 km/h at 123.8 msec

Min 0.0 km/h at 0.0 msec



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22 August 2007

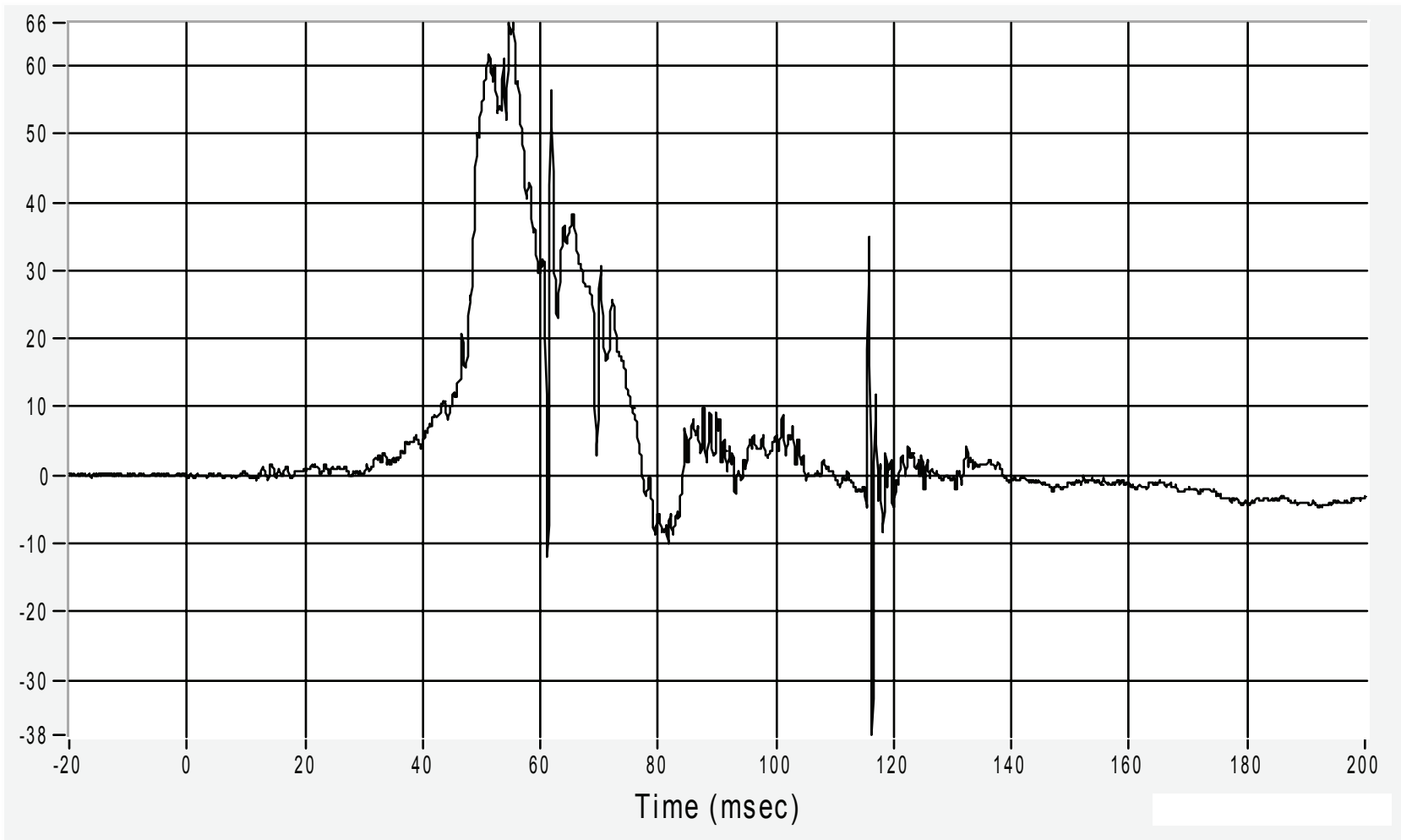
*Medical College of Wisconsin
Vehicle Crashworthiness Lab*

Passenger Lower Rib (Y) - Redundant Acceleration

Acceleration (G's) CFC1000

Max 66.3 G at 55.4 msec

Min -38.1 G at 116.4 msec



08SN01 - 2008 FORD MUSTANG 2-DOOR COUPE

22 August 2007

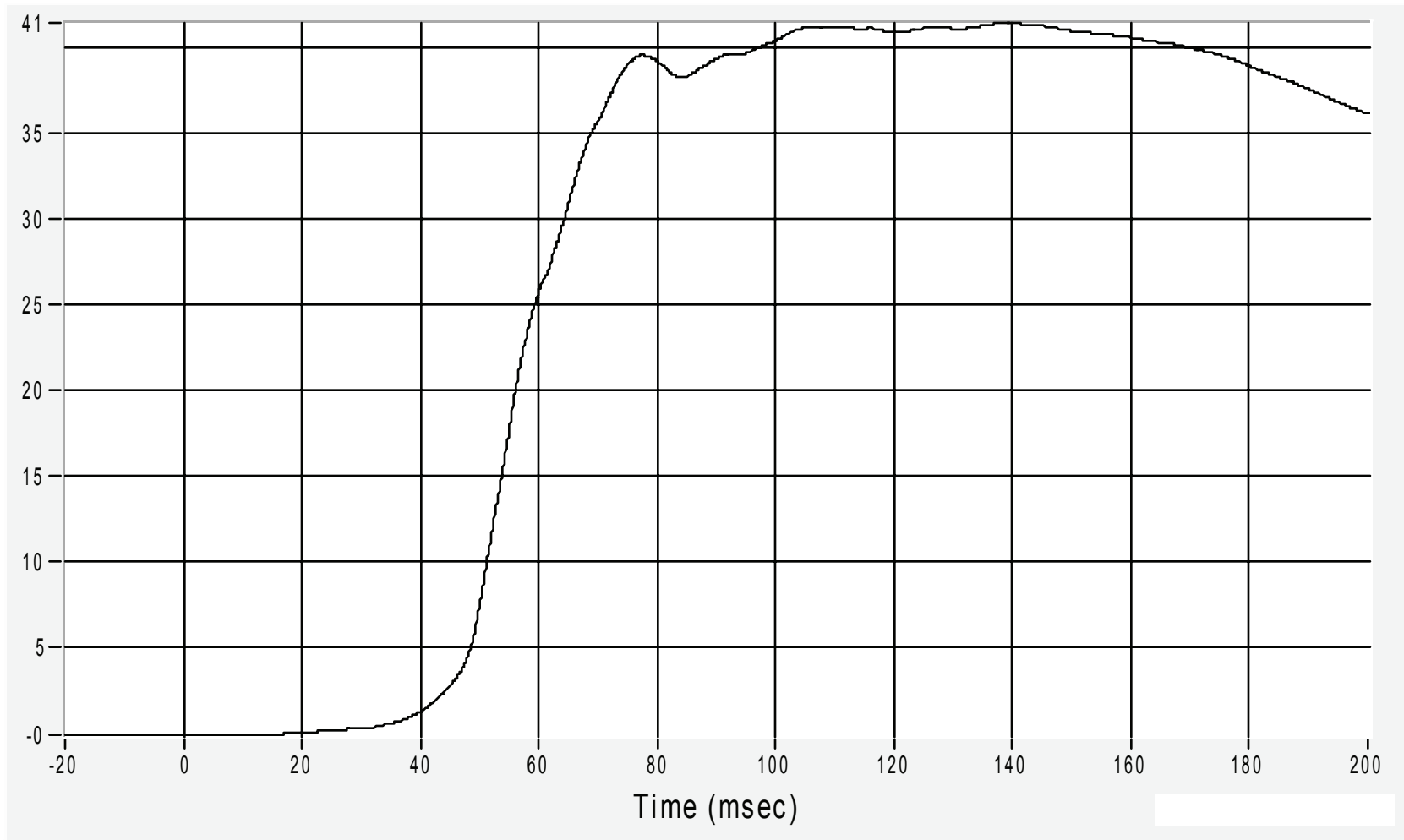
*Medical College of Wisconsin
Vehicle Crashworthiness Lab*

Passenger Lower Rib (Y) Velocity - Redundant

Velocity (km/h) CFC180

Max 41.4 km/h at 138.6 msec

Min 0.0 km/h at 12.2 msec



08SN01 - 2008 FORD MUSTANG 2-DOOR COUPE

22 August 2007

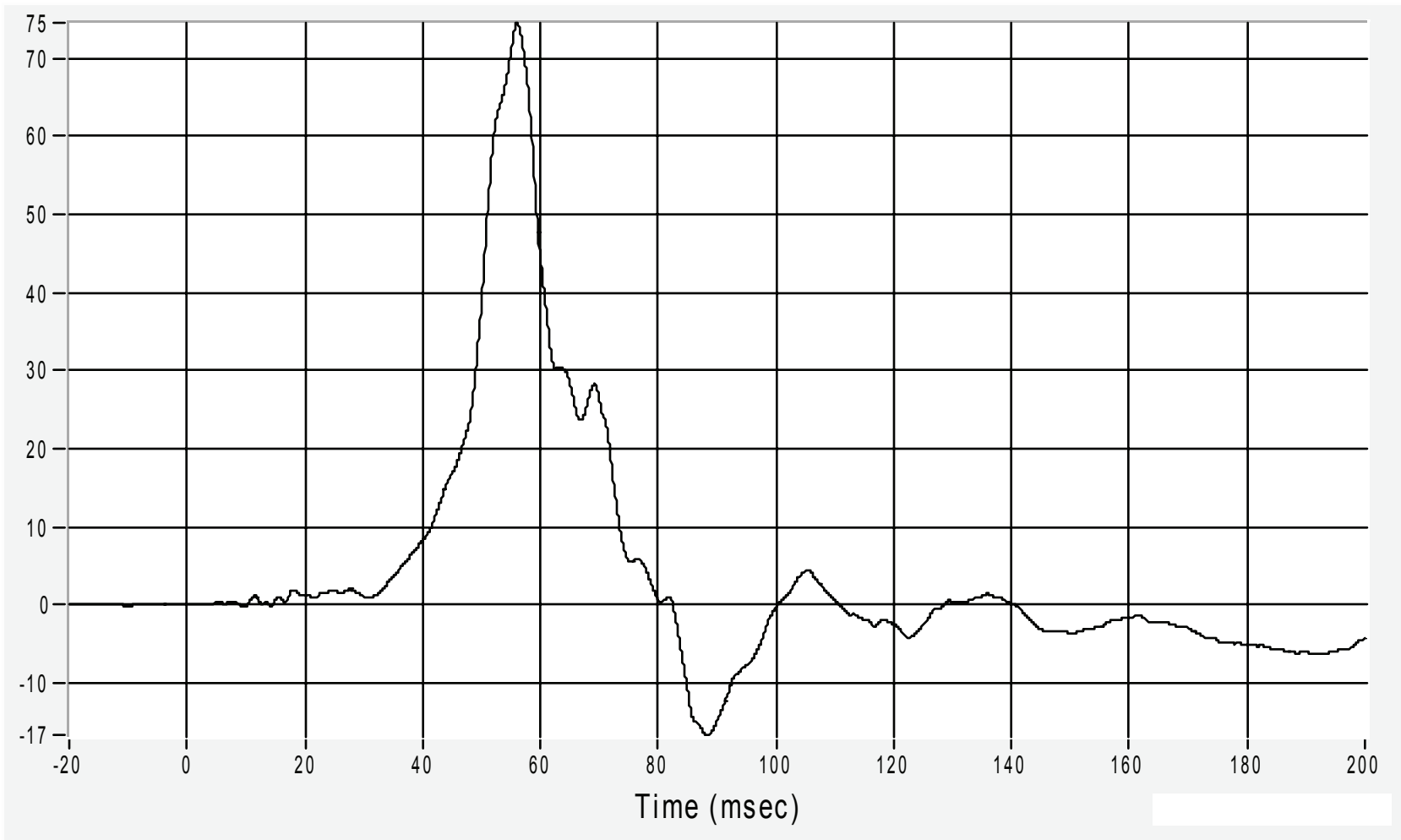
*Medical College of Wisconsin
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Passenger Lower Spine (Y) - Redundant Acceleration

Acceleration (G's) CFC180

Max 74.5 G at 56.1 msec

Min -16.7 G at 88.5 msec



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22 August 2007

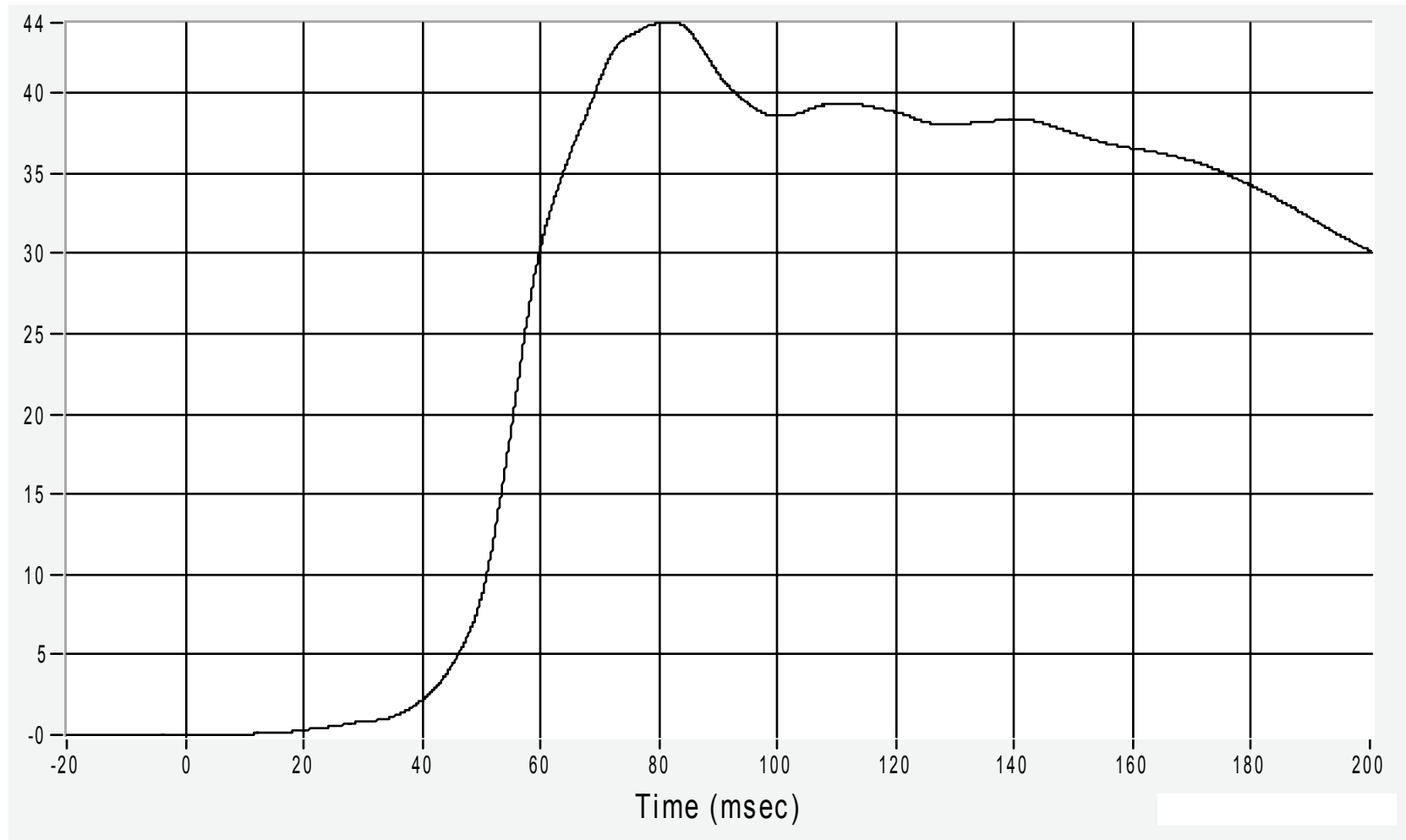
*Medical College of Wisconsin
Vehicle Crashworthiness Lab*

Passenger Lower Spine (Y) Velocity - Redundant

Velocity (km/h) CFC180

Max 44.4 km/h at 82.5 msec

Min 0.0 km/h at 2.4 msec



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22 August 2007

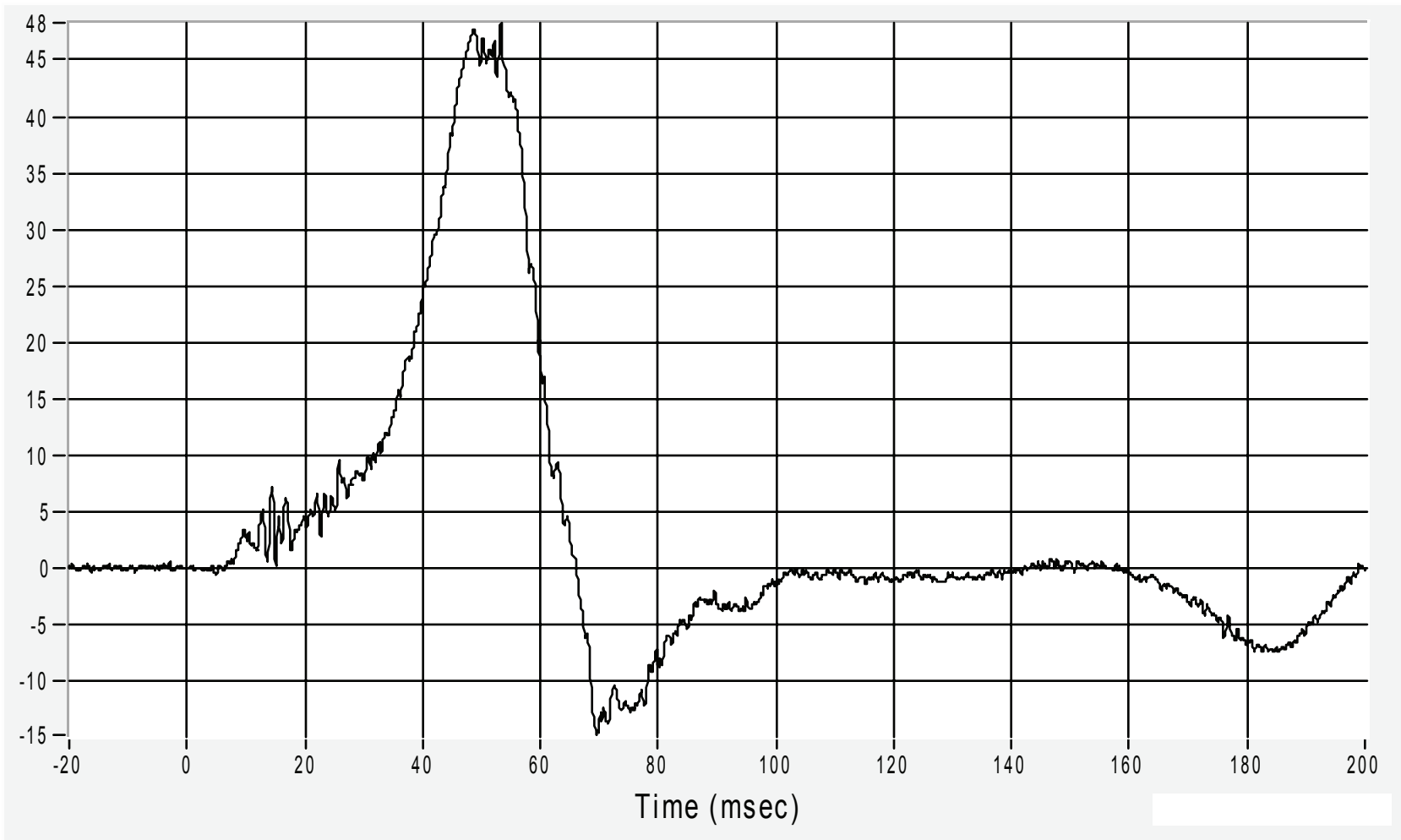
*Medical College of Wisconsin
Vehicle Crashworthiness Lab*

Passenger Pelvic (Y) - Redundant Acceleration

Acceleration (G's) CFC1000

Max 48.3 G at 53.3 msec

Min -14.8 G at 69.5 msec



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22 August 2007

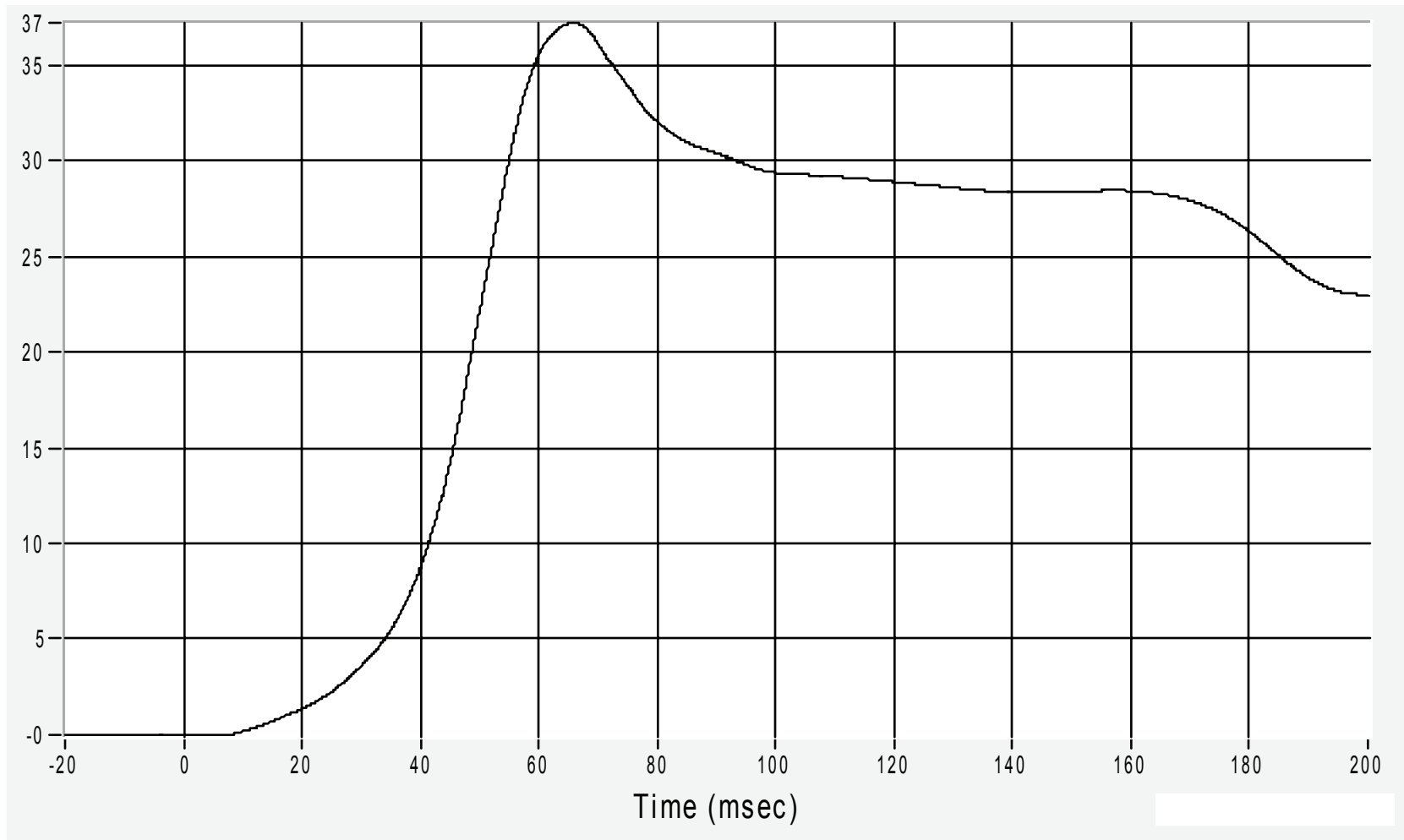
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Passenger Pelvic (Y) Velocity - Redundant

Velocity (km/h) CFC180

Max 37.2 km/h at 65.9 msec

Min 0.0 km/h at 6.0 msec



08SN01 - 2008 FORD MUSTANG 2-DOOR COUPE

22 August 2007

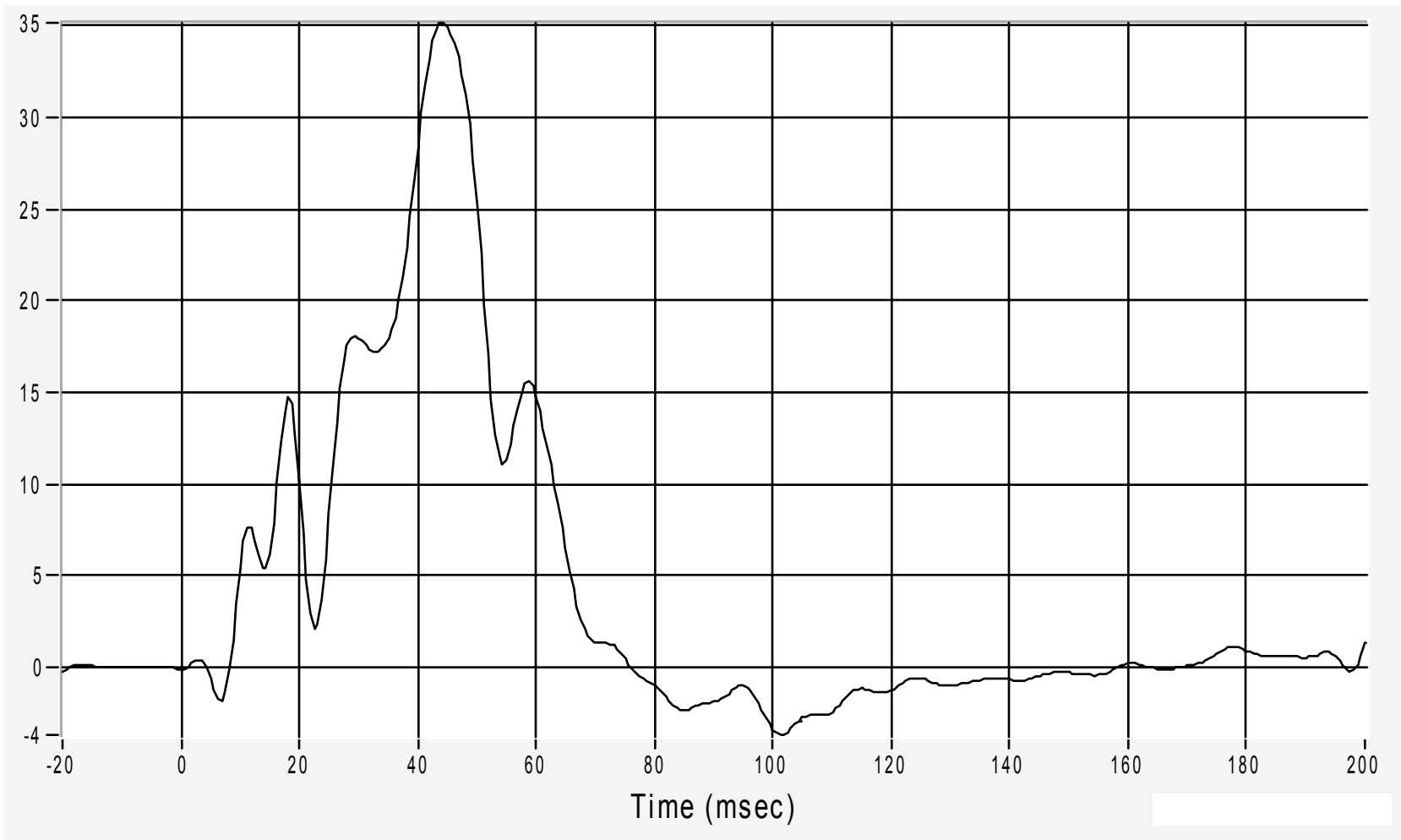
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Driver Upper Rib (Y) - Redundant Acceleration

Acceleration (G's) FIR100

Max 35.2 G at 44.4 msec

Min -3.7 G at 101.2 msec



08SN01 - 2008 FORD MUSTANG 2-DOOR COUPE

22 August 2007

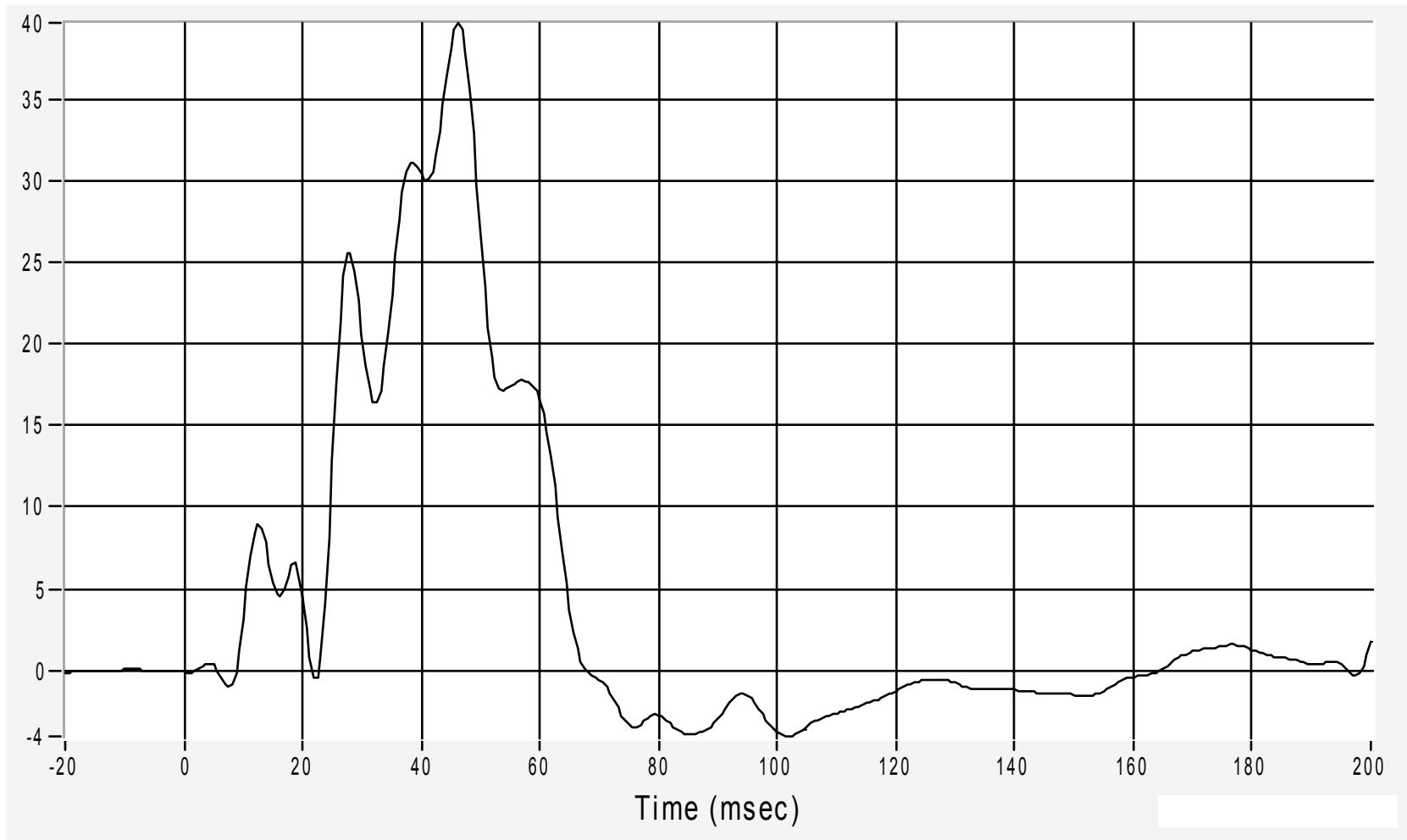
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Driver Lower Rib (Y) - Redundant Acceleration

Acceleration (G's) FIR100

Max 39.7 G at 46.2 msec

Min -4.0 G at 101.9 msec



08SN01 - 2008 FORD MUSTANG 2-DOOR COUPE

22 August 2007

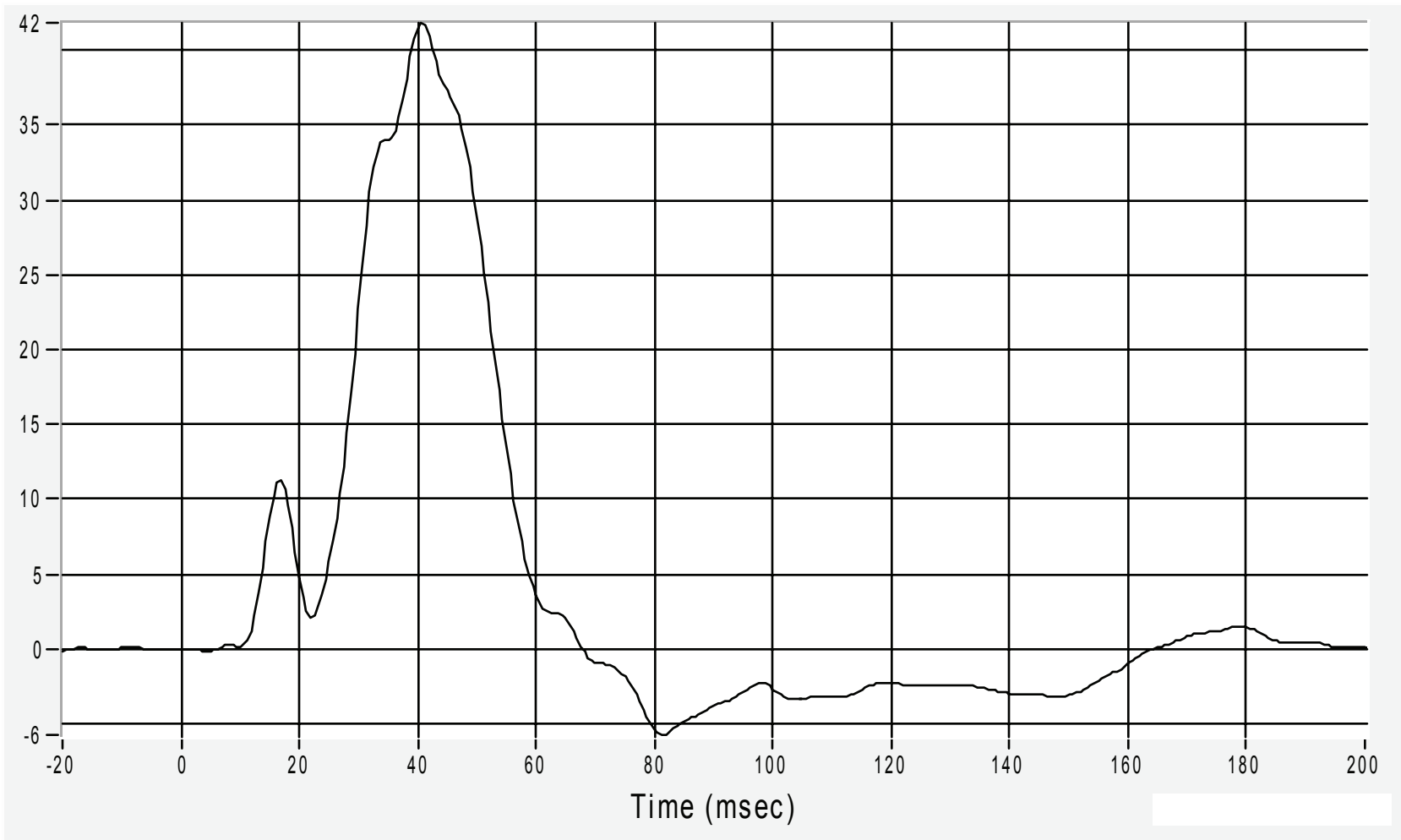
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Driver Lower Spine (Y) - Redundant Acceleration

Acceleration (G's) FIR100

Max 41.8 G at 40.6 msec

Min -5.8 G at 81.2 msec



08SN01 - 2008 FORD MUSTANG 2-DOOR COUPE

22 August 2007

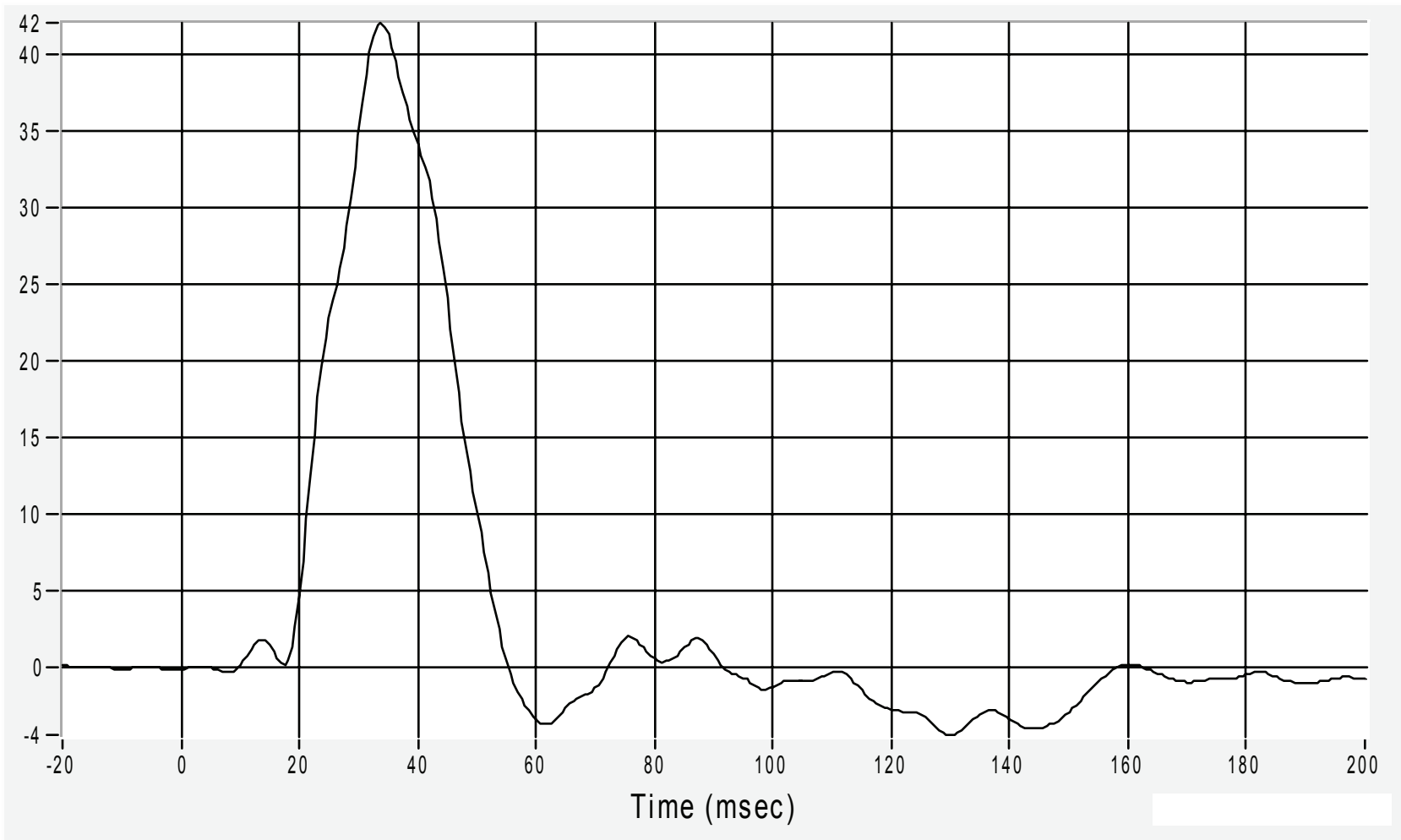
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Driver Pelvic (Y) - Redundant Acceleration

Acceleration (G's) FIR100

Max 42.0 G at 33.8 msec

Min -4.3 G at 130.0 msec



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22 August 2007

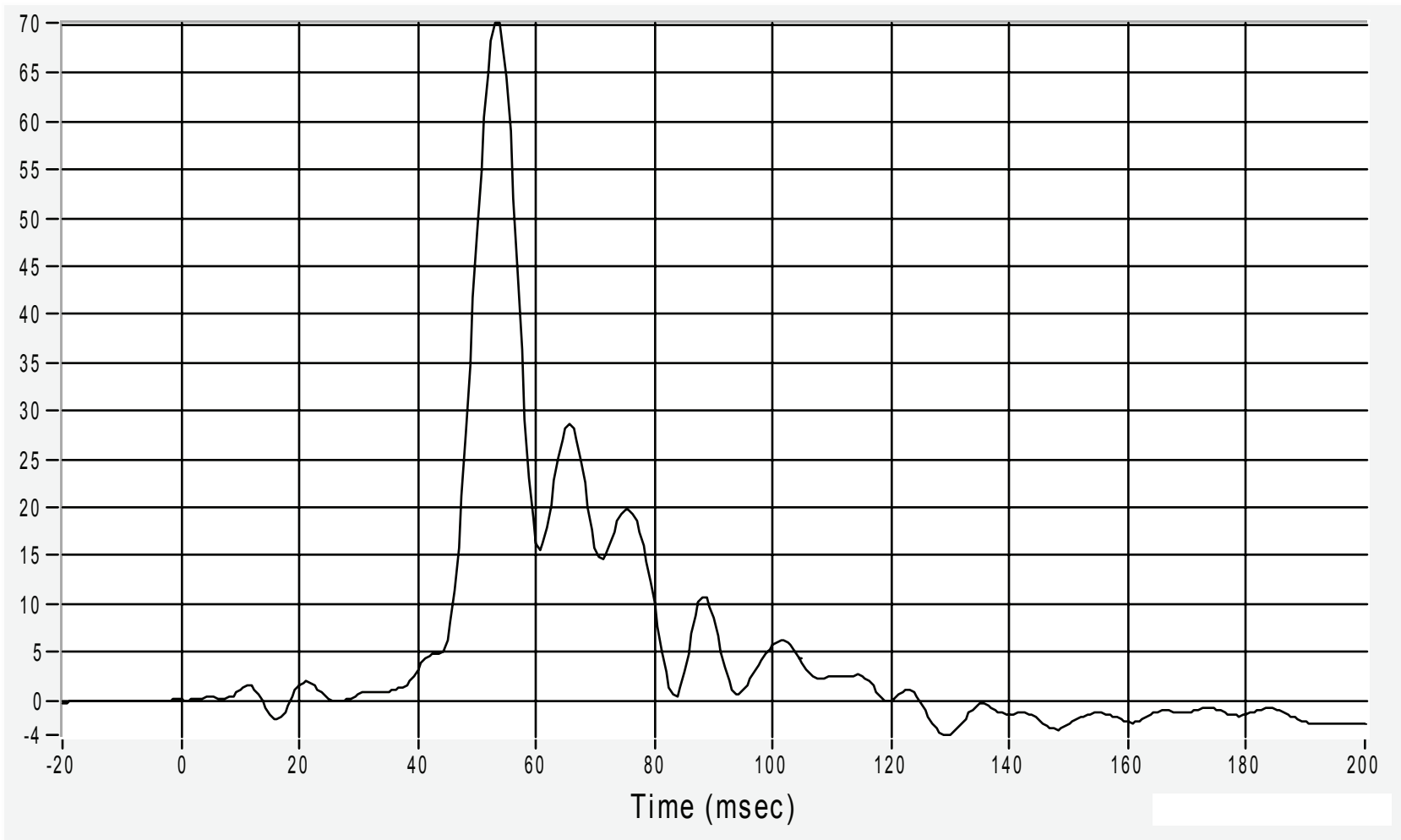
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Passenger Upper Rib (Y) - Redundant Acceleration

Acceleration (G's) FIR100

Max 70.2 G at 53.8 msec

Min -3.6 G at 129.4 msec



08SN01 - 2008 FORD MUSTANG 2-DOOR COUPE

22 August 2007

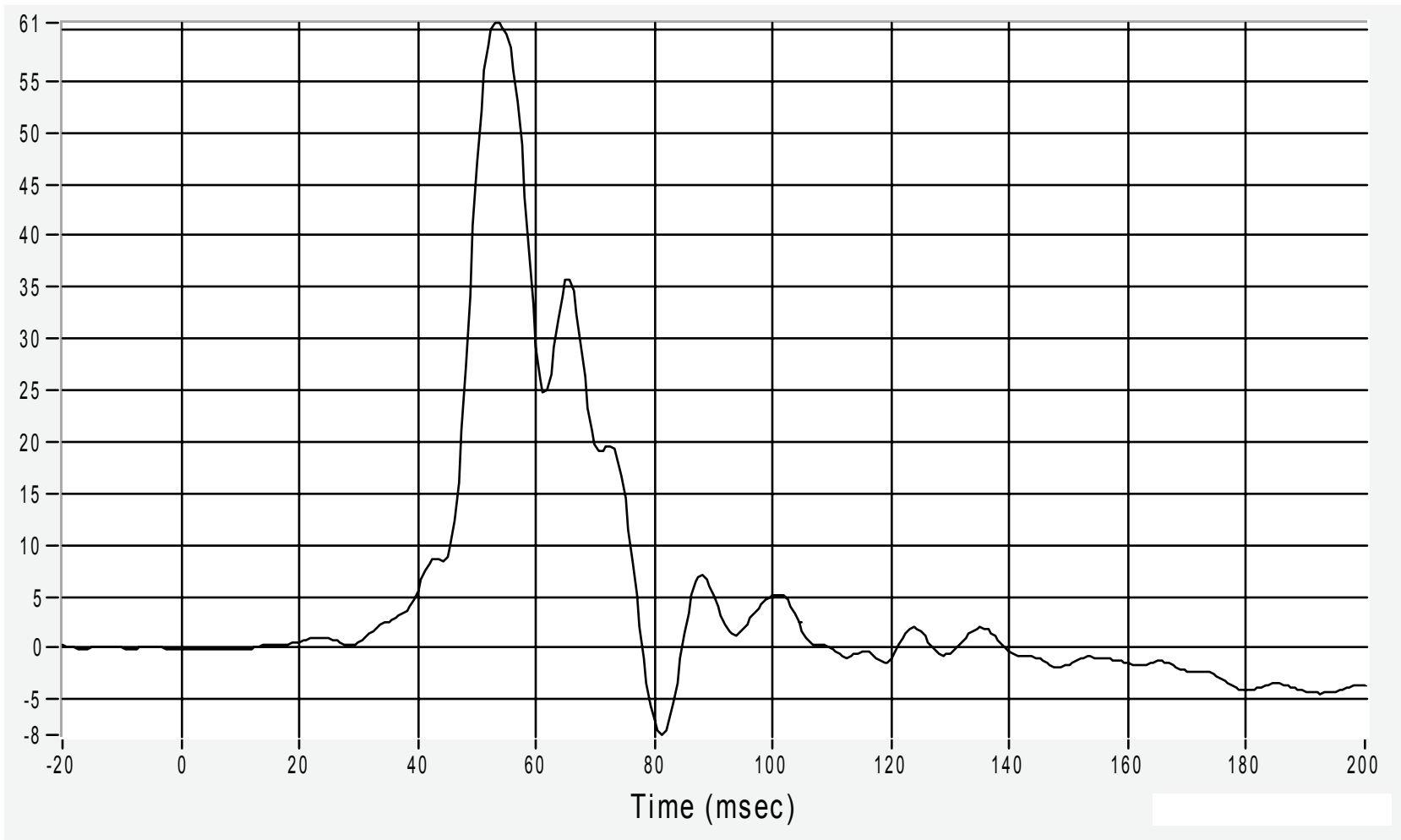
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Passenger Lower Rib (Y) - Redundant Acceleration

Acceleration (G's) FIR100

Max 60.7 G at 53.8 msec

Min -8.4 G at 81.2 msec



08SN01 - 2008 FORD MUSTANG 2-DOOR COUPE

22 August 2007

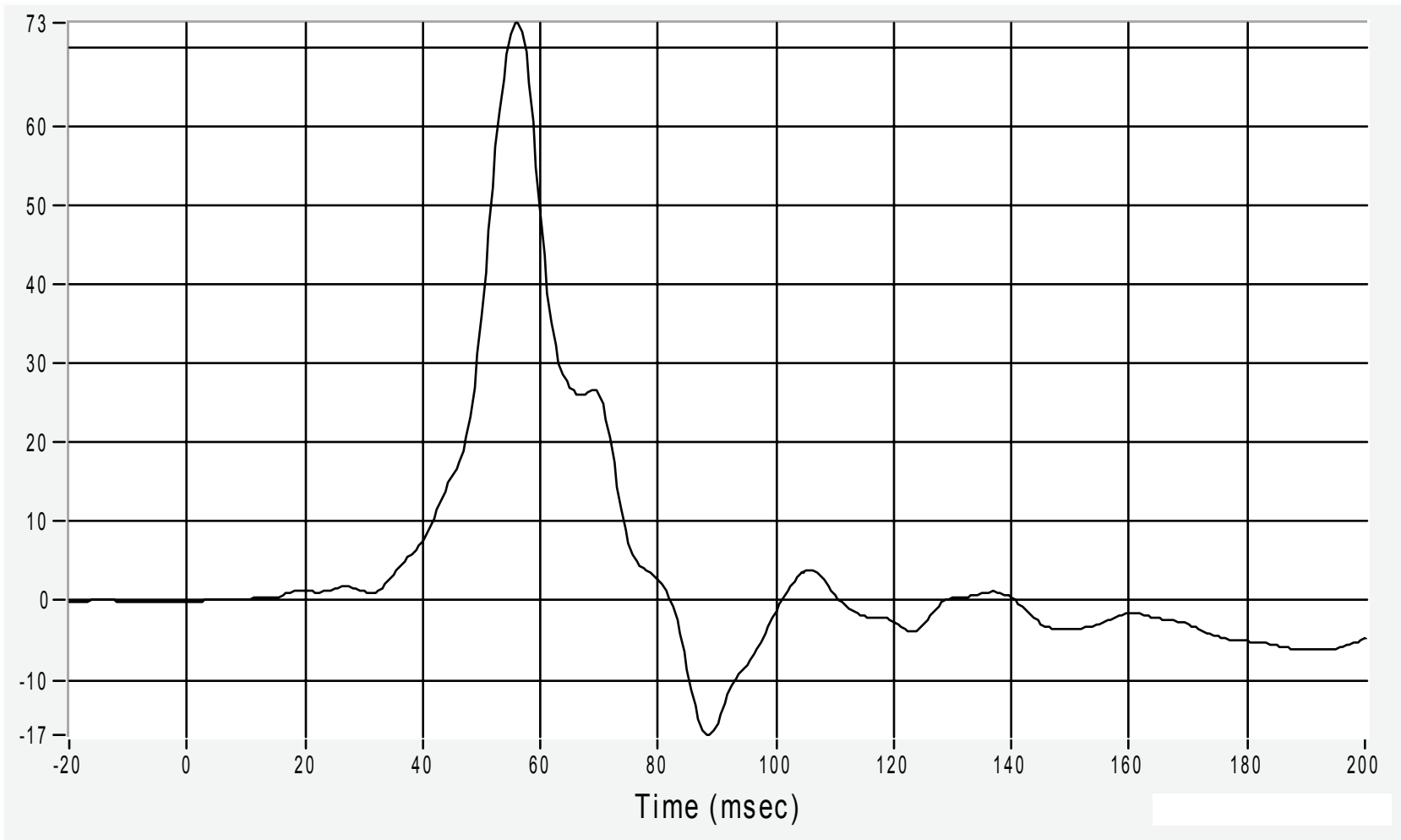
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Passenger Lower Spine (Y) - Redundant Acceleration

Acceleration (G's) FIR100

Max 73.1 G at 56.2 msec

Min -17.0 G at 88.8 msec



08SN01 - 2008 FORD MUSTANG 2-DOOR COUPE

22 August 2007

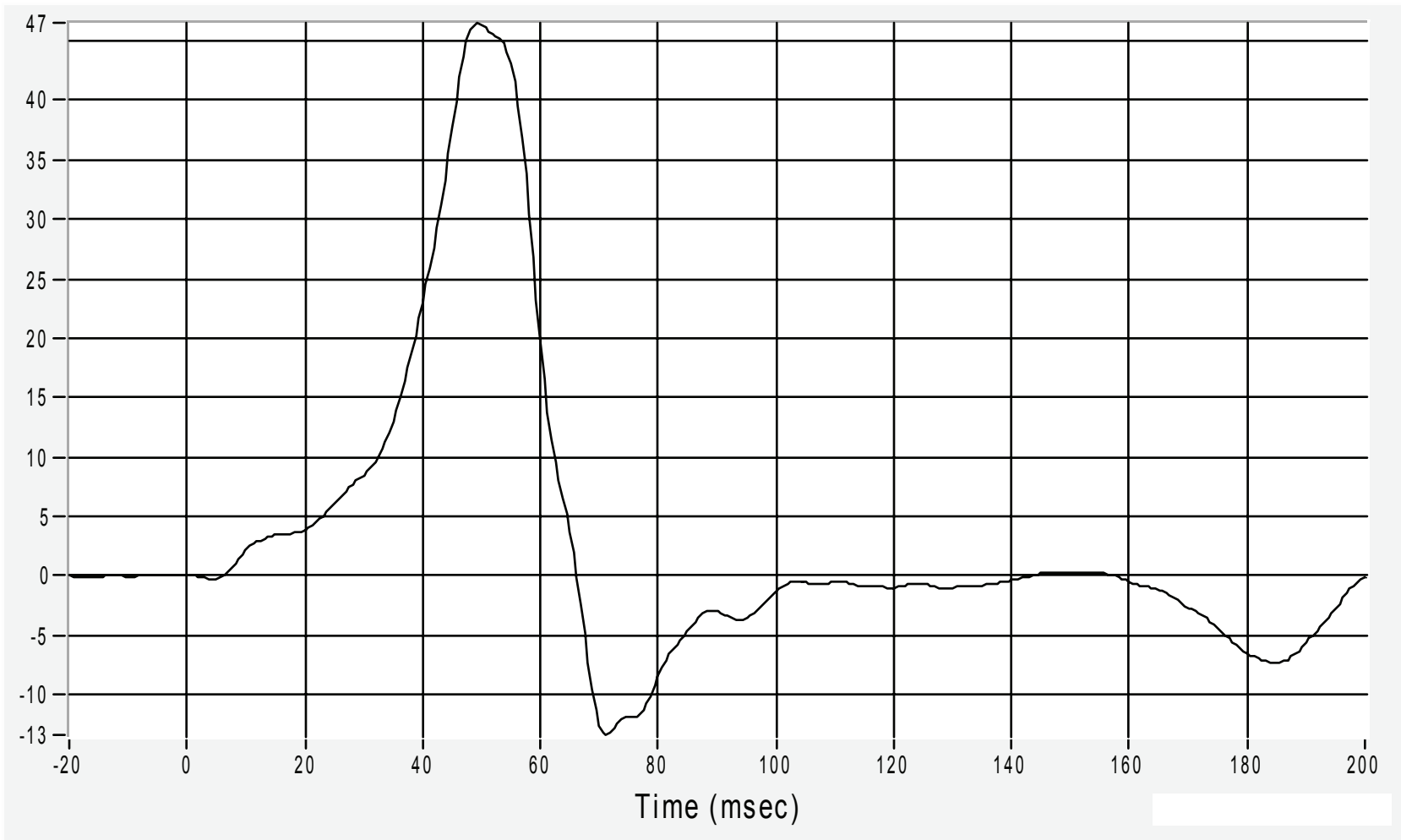
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Passenger Pelvic (Y) - Redundant Acceleration

Acceleration (G's) FIR100

Max 46.5 G at 49.4 msec

Min -13.4 G at 71.2 msec



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22 August 2007

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