

APPENDIX I

Acceleration-Time Histories From Curb-Barrier Impact Computed at the Center of Gravity of Vehicle

-Finite Element Analysis Results-

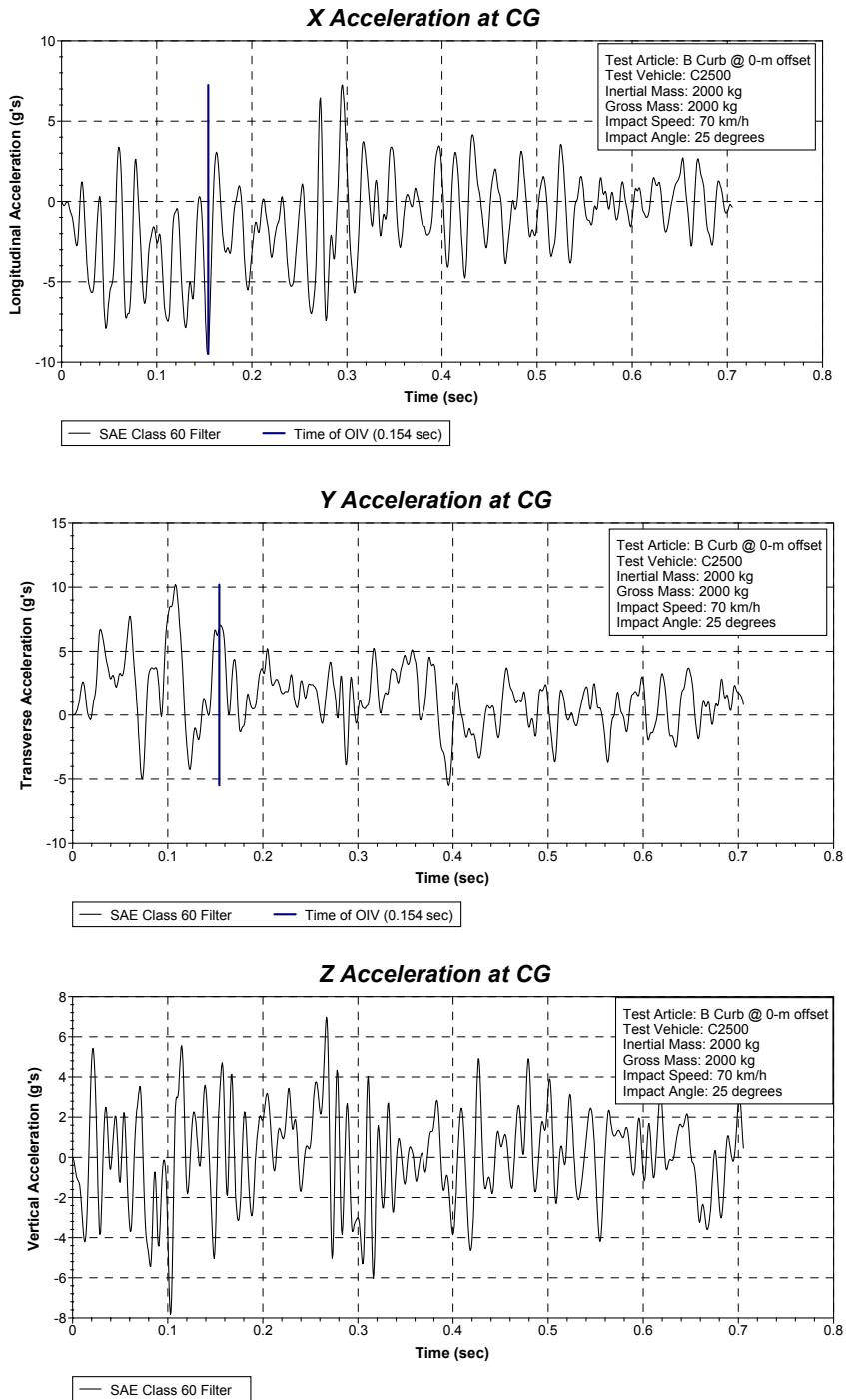


Figure I.1: Acceleration-time histories at C.G. of pickup truck in local coordinates:
Curb Type -- AASHTO B Curb
Impact Speed – 70 km/hr
Offset Distance – 0.0 m.

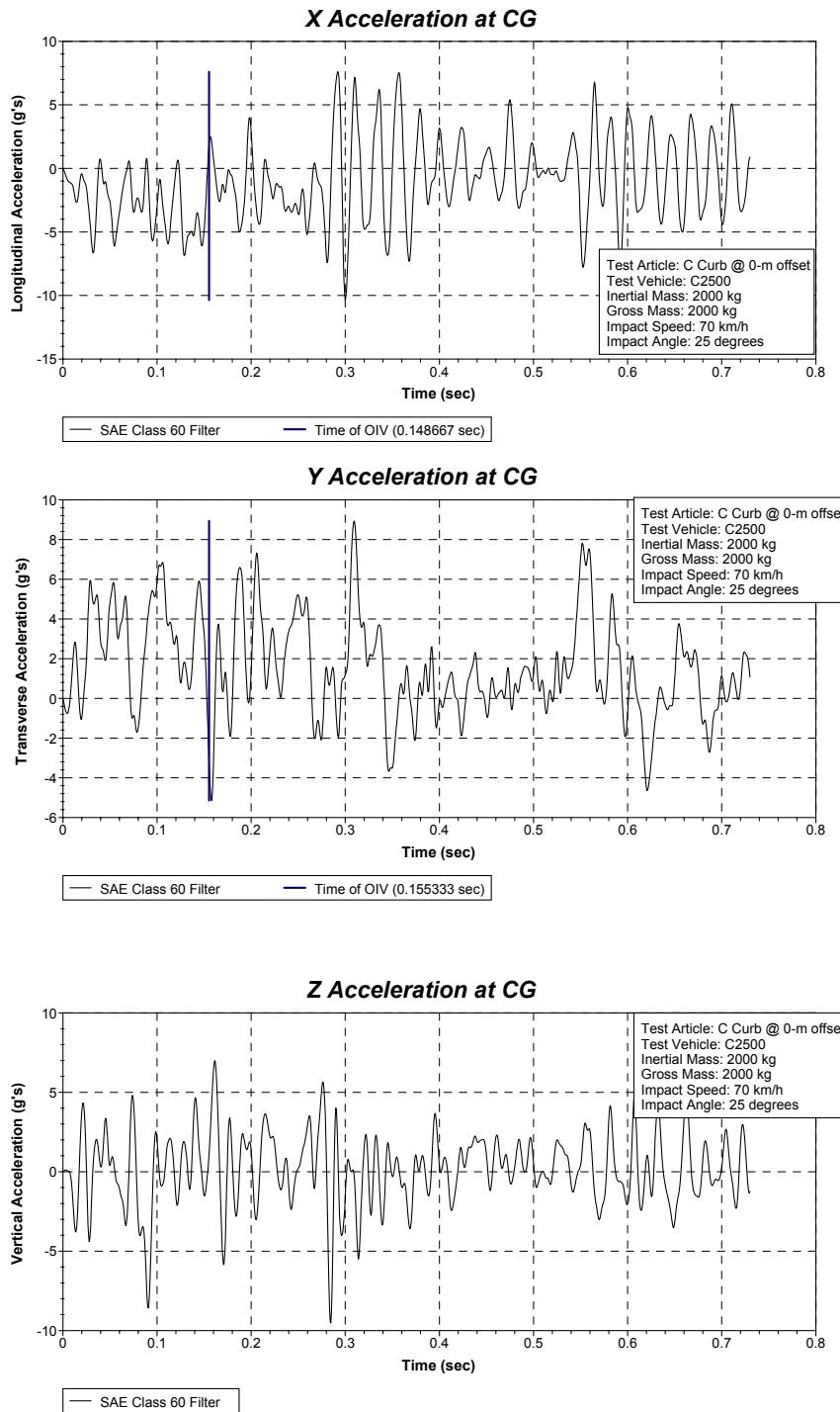


Figure I.2:

Acceleration-time histories at C.G. of pickup truck in local coordinates:

Curb Type	-- AASHTO C Curb
Impact Speed	- 70 km/hr
Offset Distance	- 0.0 m.

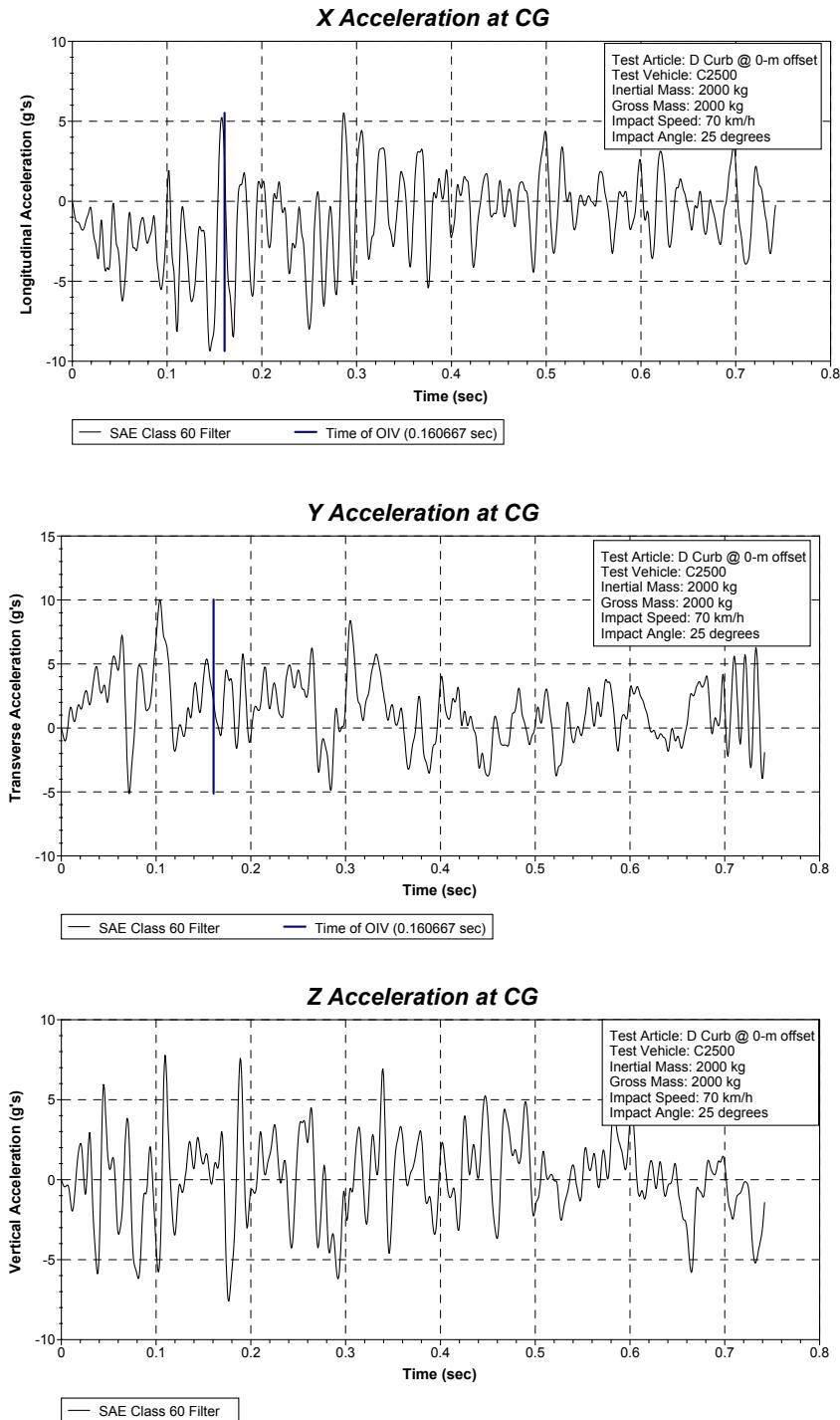


Figure I.3:

Acceleration-time histories at C.G. of pickup truck in local coordinates:

Curb Type -- AASHTO D Curb

Impact Speed – 70 km/hr

Offset Distance – 0.0 m.

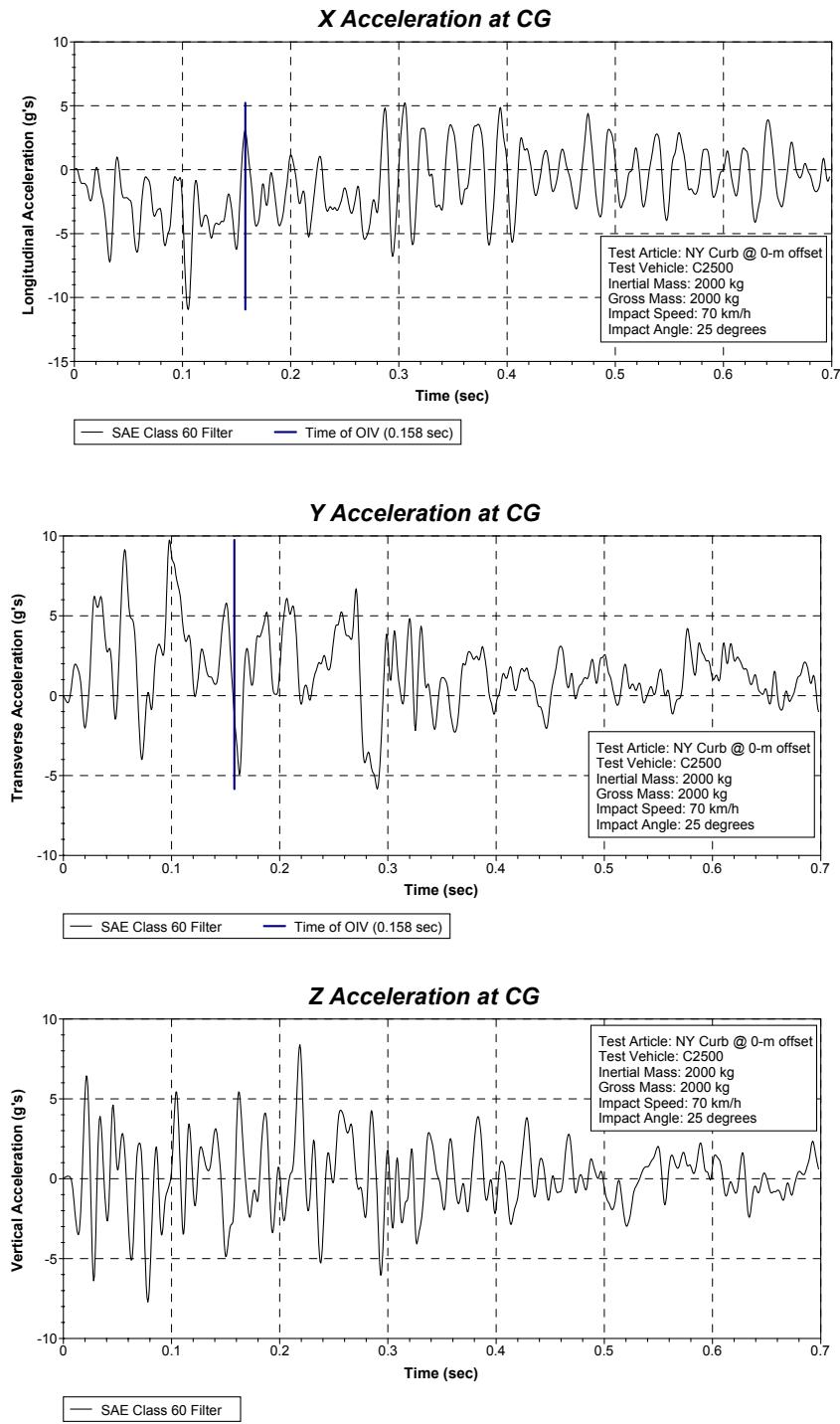


Figure I.4:

Acceleration-time histories at C.G. of pickup truck in local coordinates:

Curb Type	-- New York Curb (100 mm)
Impact Speed	- 70 km/hr
Offset Distance	- 0.0 m.

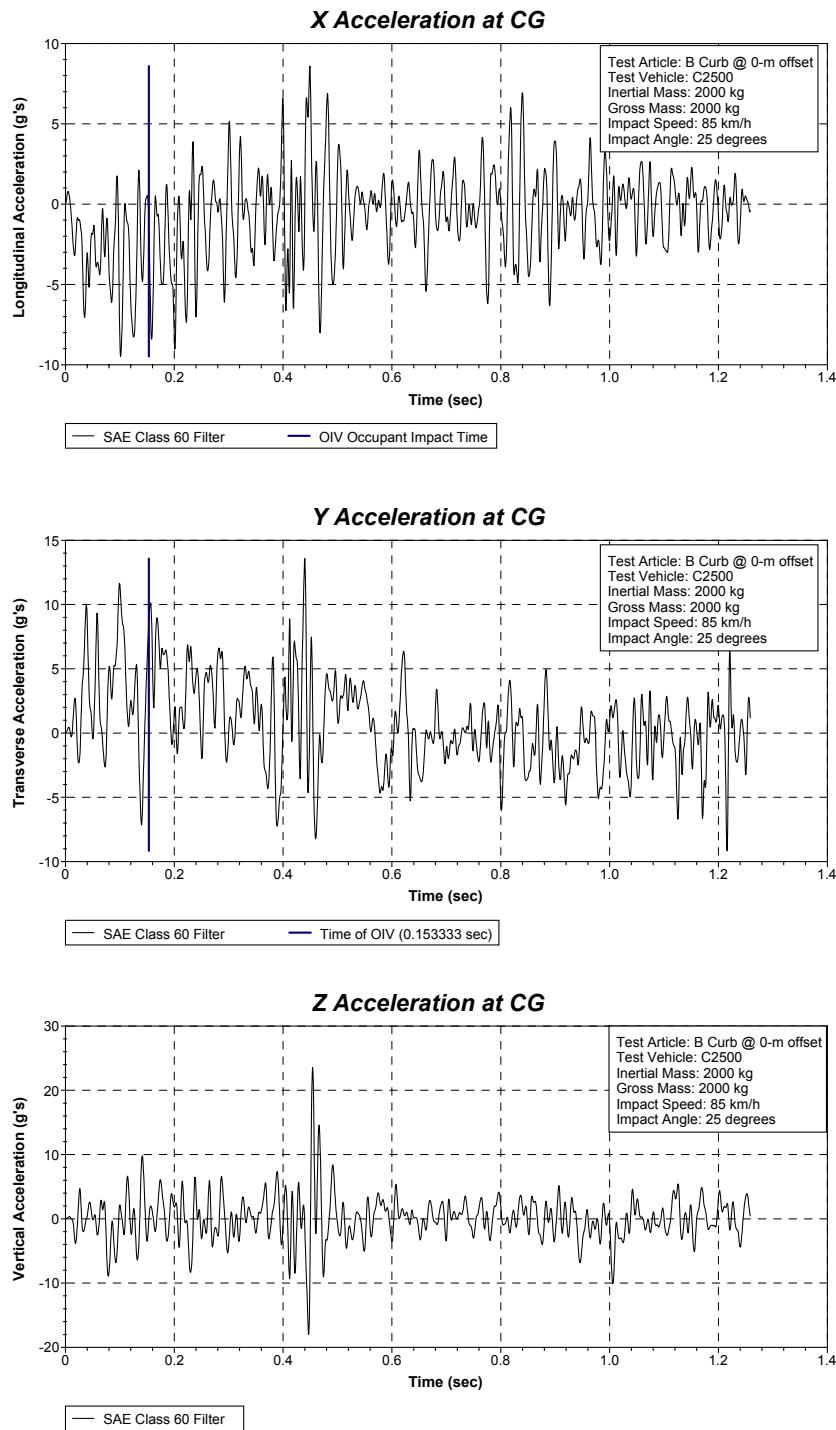


Figure I.5:

Acceleration-time histories at C.G. of pickup truck in local coordinates:

Curb Type	-- AASHTO B Curb
Impact Speed	- 85 km/hr
Offset Distance	- 0.0 m.

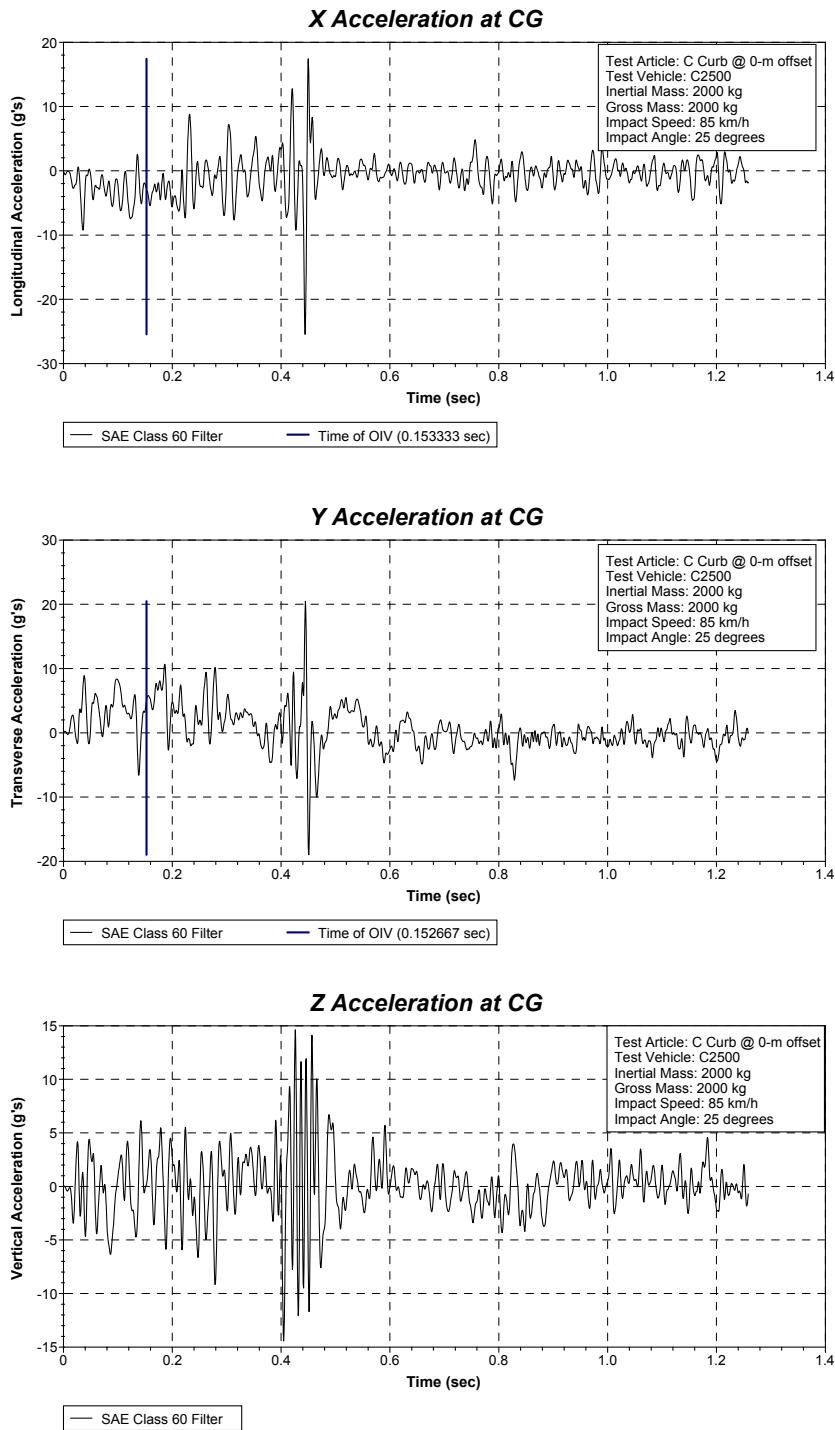


Figure I.6: Acceleration-time histories at C.G. of pickup truck in local coordinates:
Curb Type -- AASHTO C Curb
Impact Speed – 85 km/hr
Offset Distance – 0.0 m.

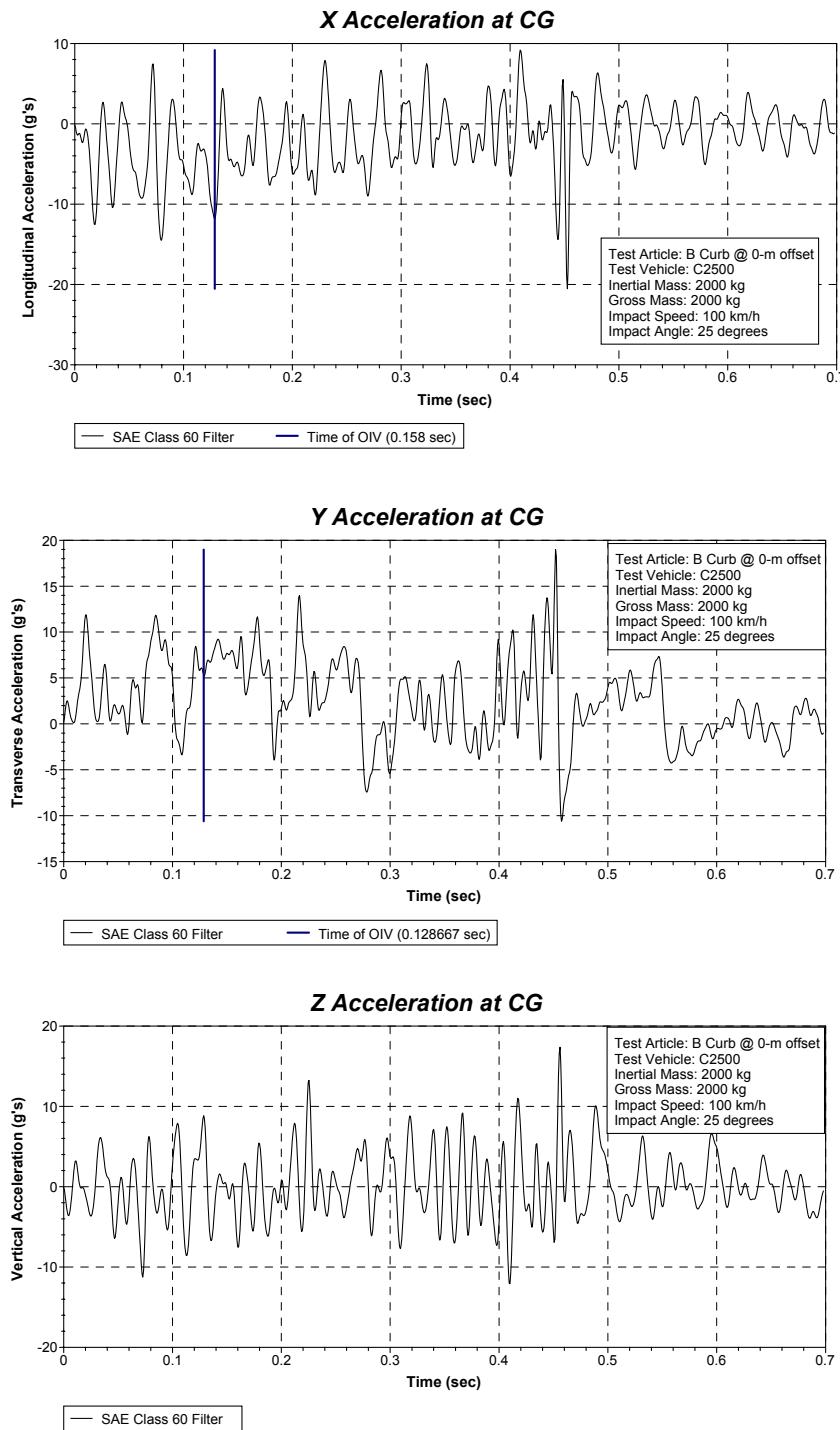


Figure I.7: Acceleration-time histories at C.G. of pickup truck in local coordinates:

Curb Type	-- AASHTO B Curb
Impact Speed	- 100 km/hr
Offset Distance	- 0.0 m.

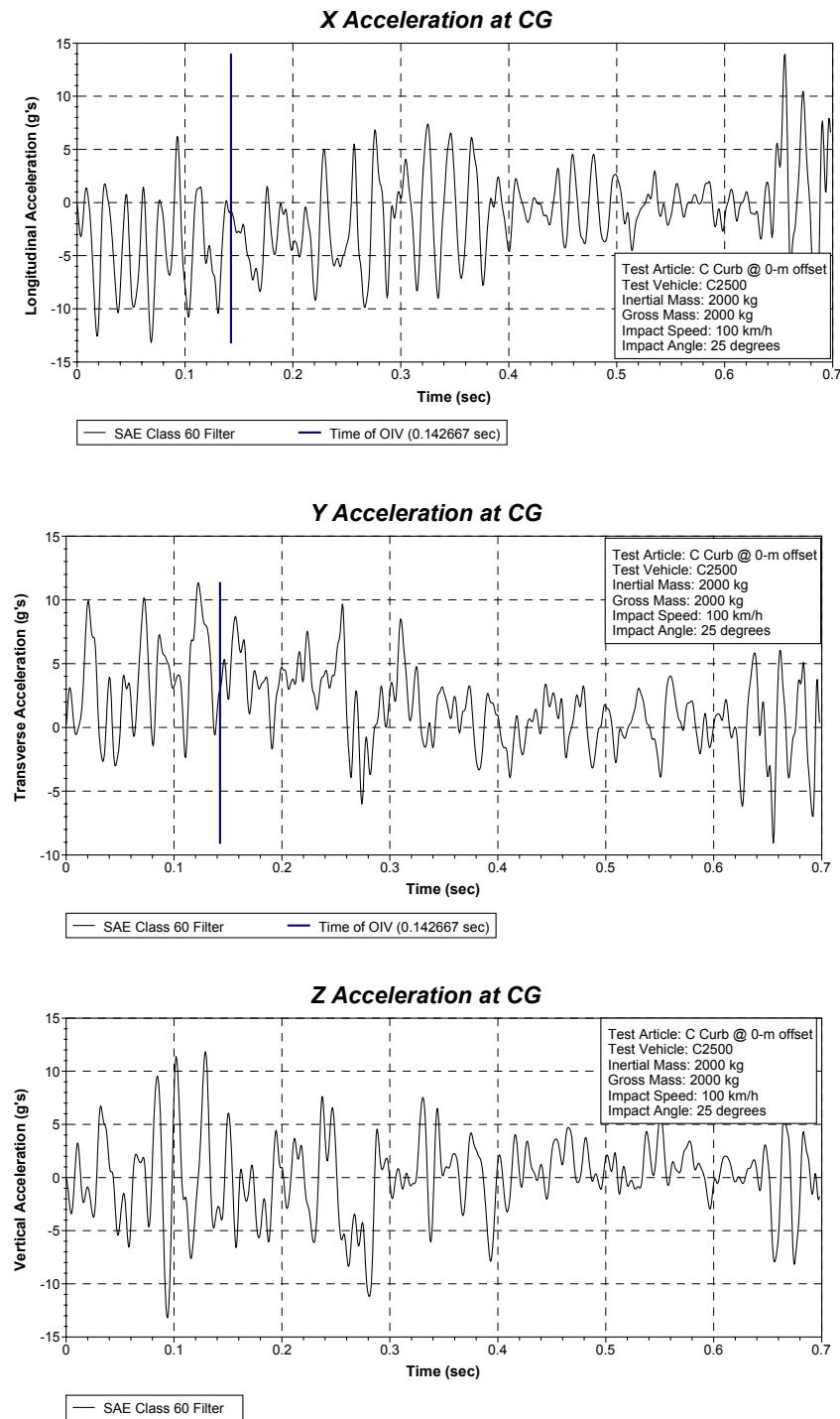


Figure I.8:

Acceleration-time histories at C.G. of pickup truck in local coordinates:

Curb Type	-- AASHTO C Curb
Impact Speed	- 100 km/hr
Offset Distance	- 0.0 m.

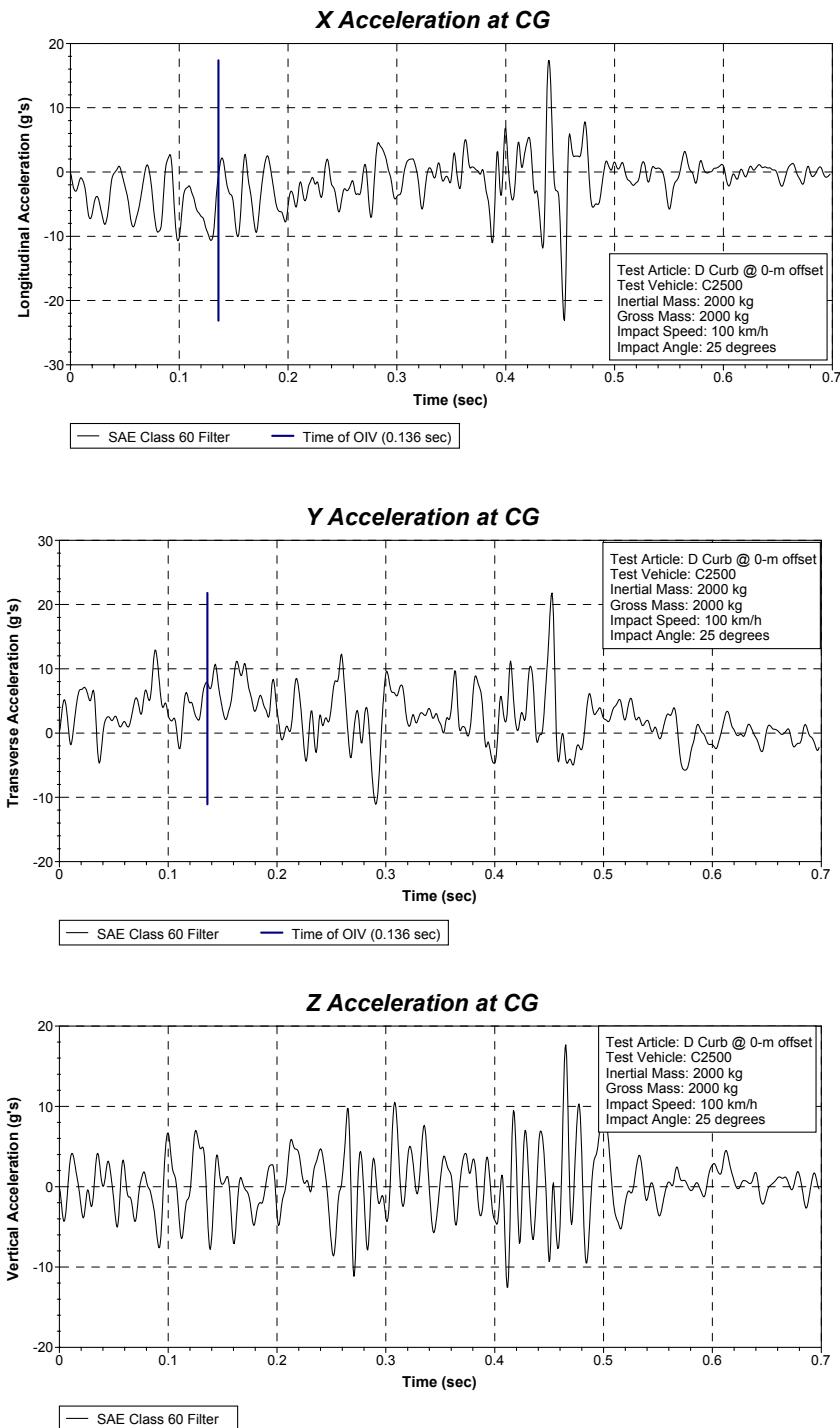


Figure I.9:

Acceleration-time histories at C.G. of pickup truck in local coordinates:

Curb Type	-- AASHTO D Curb
Impact Speed	- 100 km/hr
Offset Distance	- 0.0 m.

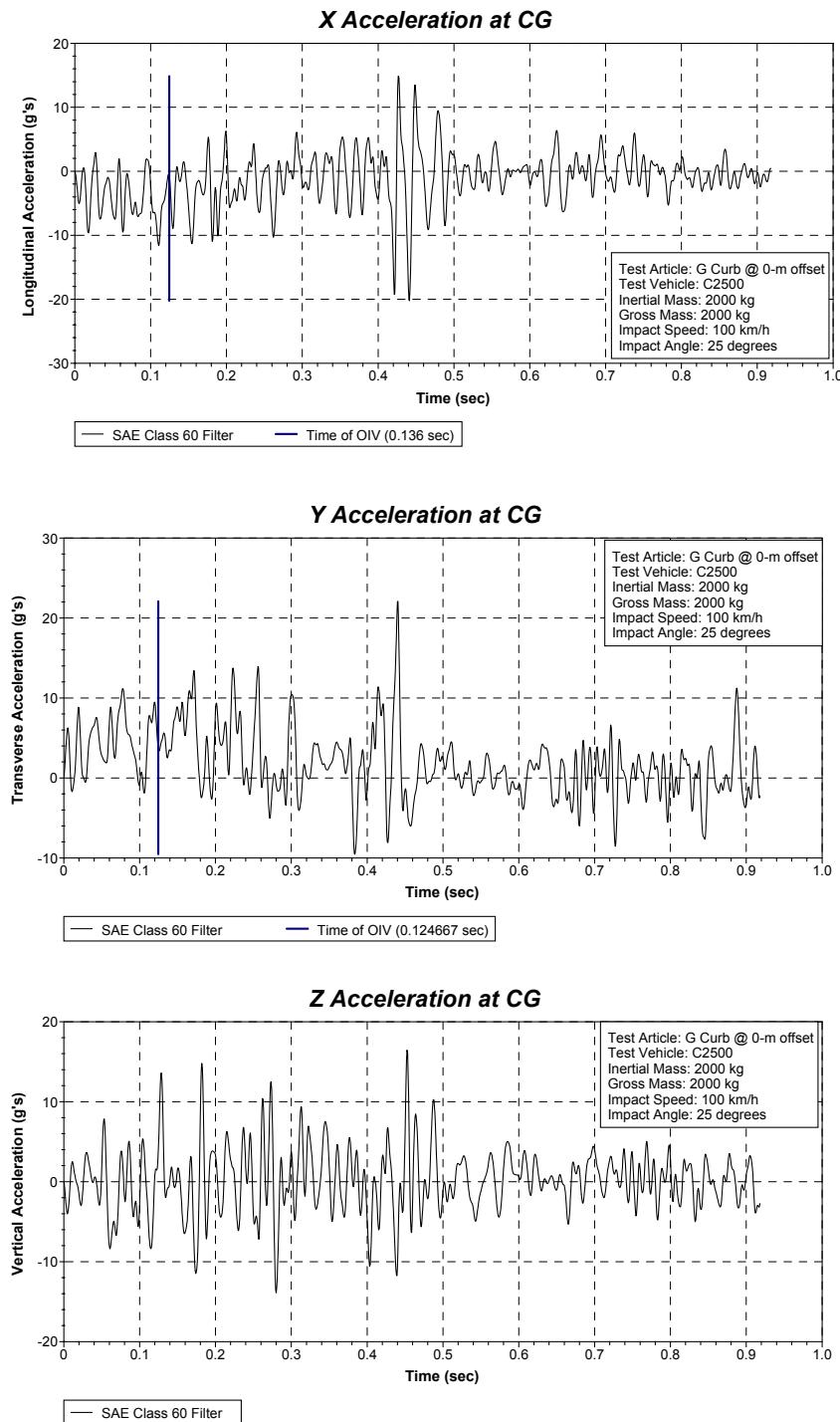


Figure I.10: Acceleration-time histories at C.G. of pickup truck in local coordinates:

Curb Type	-- AASHTO G Curb
Impact Speed	- 100 km/hr
Offset Distance	- 0.0 m.

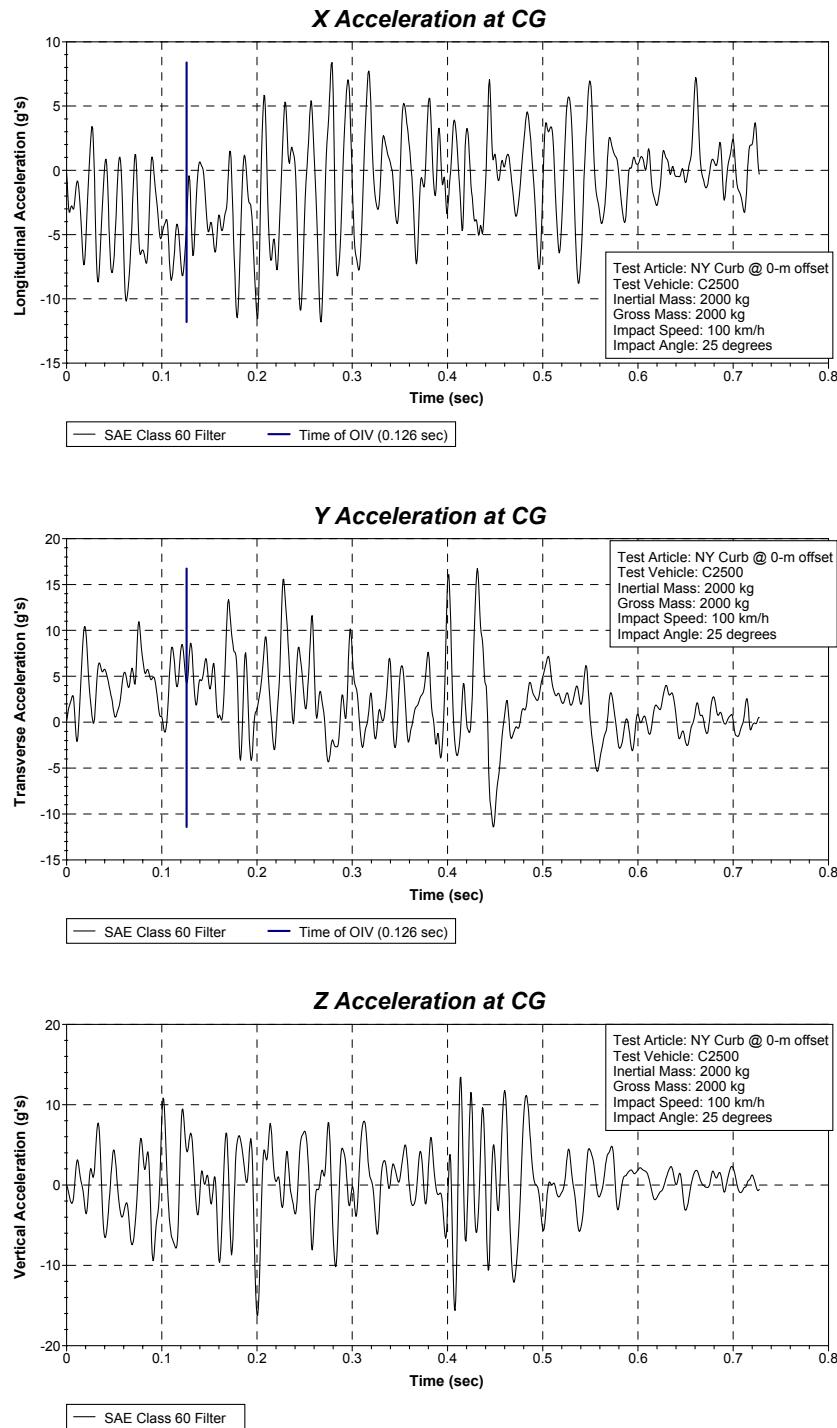


Figure I.11: Acceleration-time histories at C.G. of pickup truck in local coordinates:

Curb Type	-- New York Curb (100 mm)
Impact Speed	- 100 km/hr
Offset Distance	- 0.0 m.

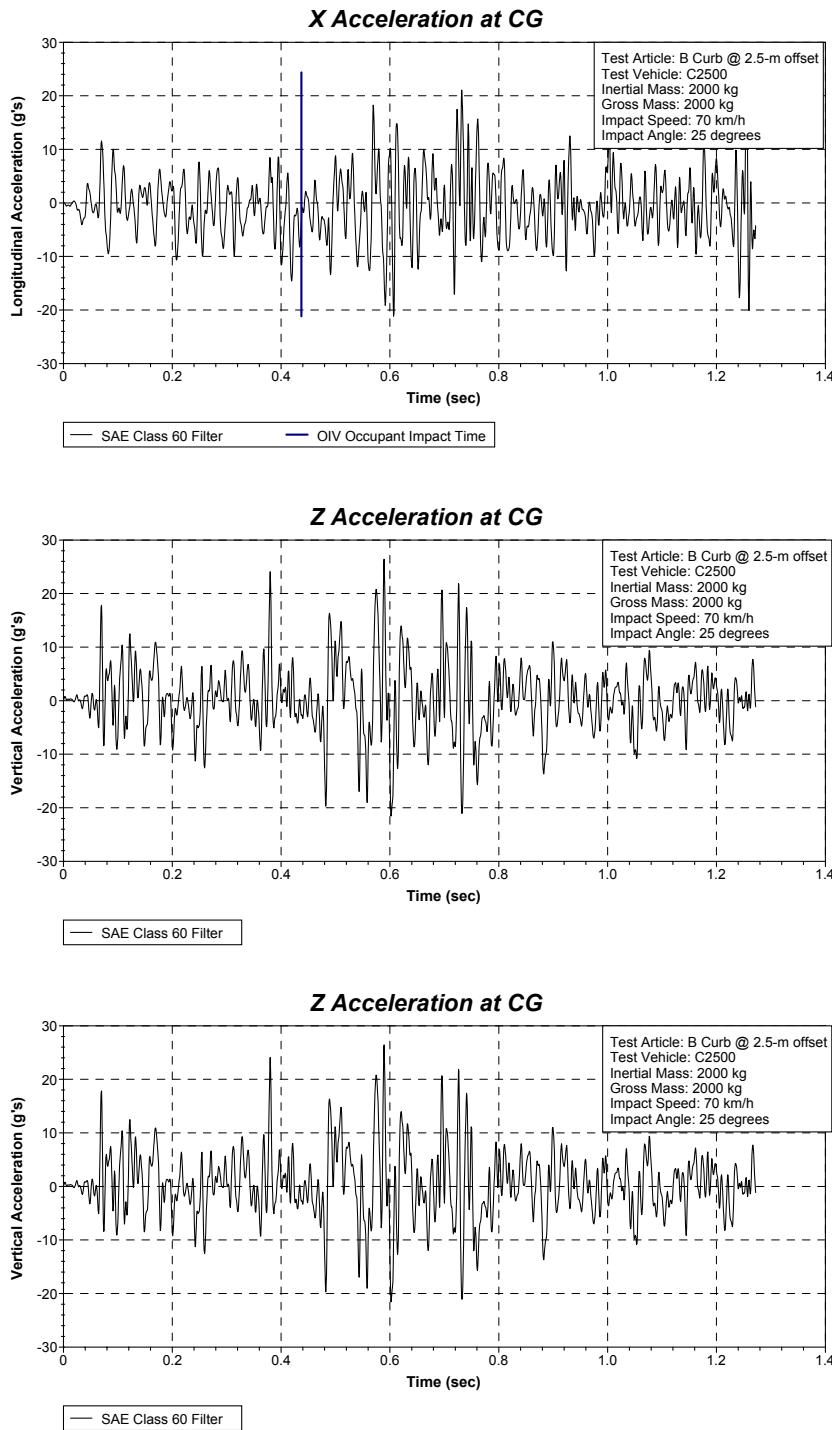


Figure I.12: Acceleration-time histories at C.G. of pickup truck in local coordinates:
Curb Type -- AASHTO B Curb
Impact Speed – 70 km/hr
Offset Distance – 2.5 m.

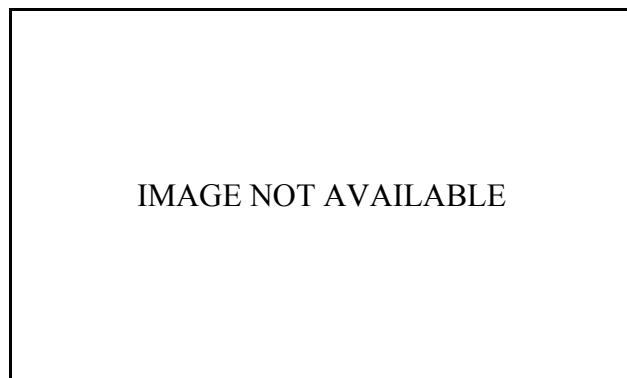


Figure I.13: Acceleration-time histories at C.G. of pickup truck in local coordinates:
Curb Type -- AASHTO C Curb
Impact Speed – 70 km/hr
Offset Distance – 2.5 m.

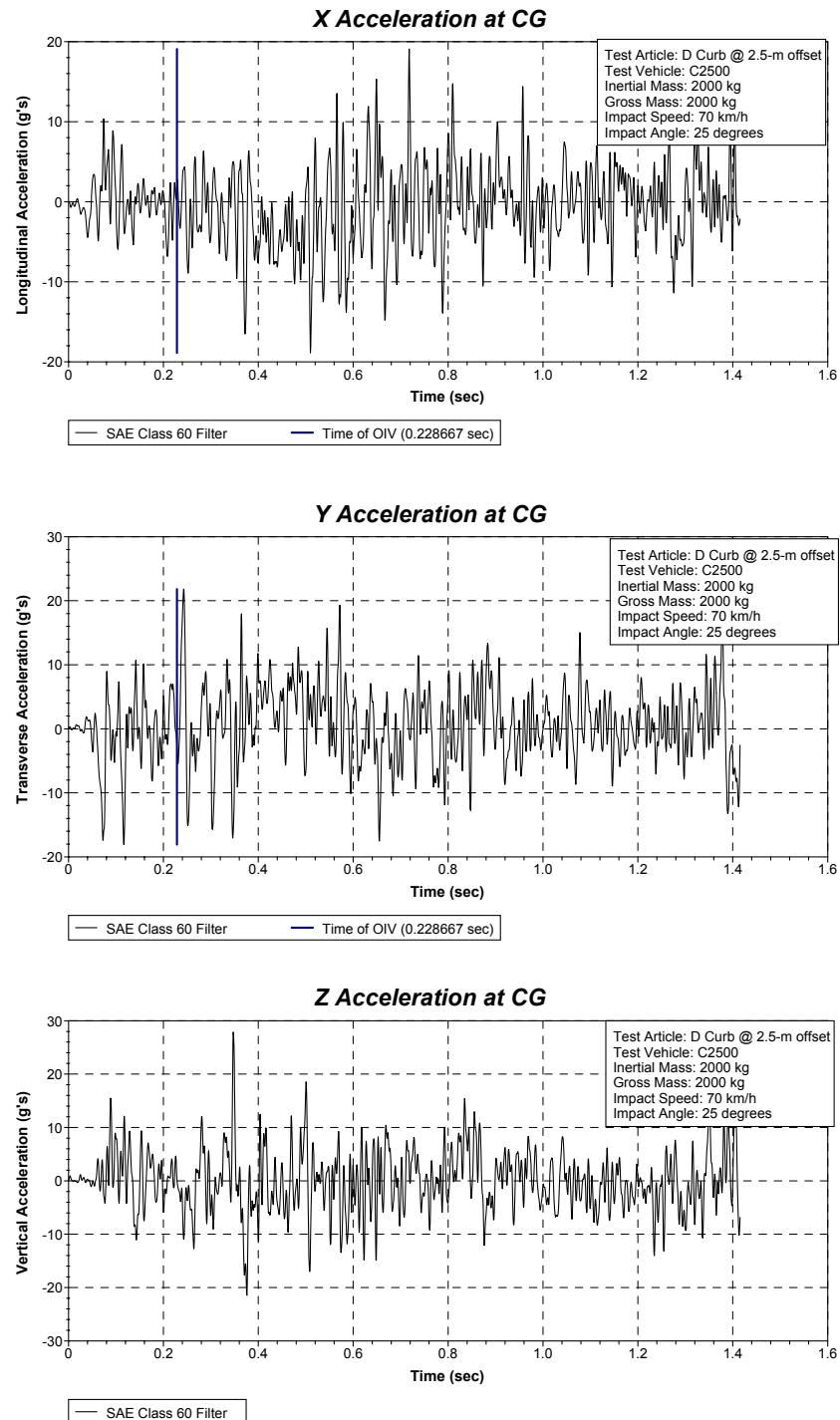


Figure I.14: Acceleration-time histories at C.G. of pickup truck in local coordinates:

Curb Type	-- AASHTO D Curb
Impact Speed	- 70 km/hr
Offset Distance	- 2.5 m.

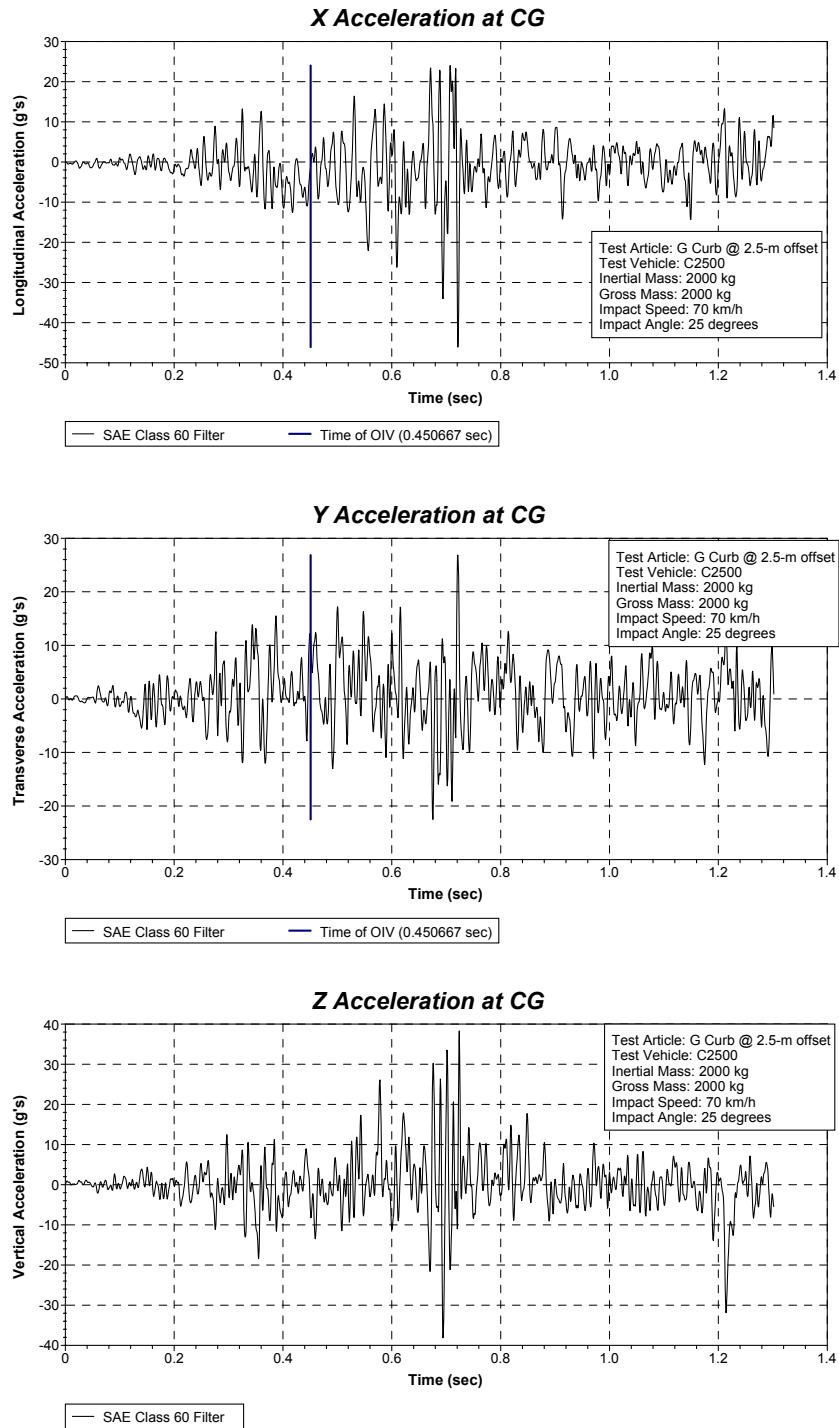


Figure I.15: Acceleration-time histories at C.G. of pickup truck in local coordinates:
Curb Type -- AASHTO G Curb
Impact Speed – 70 km/hr
Offset Distance – 2.5 m.

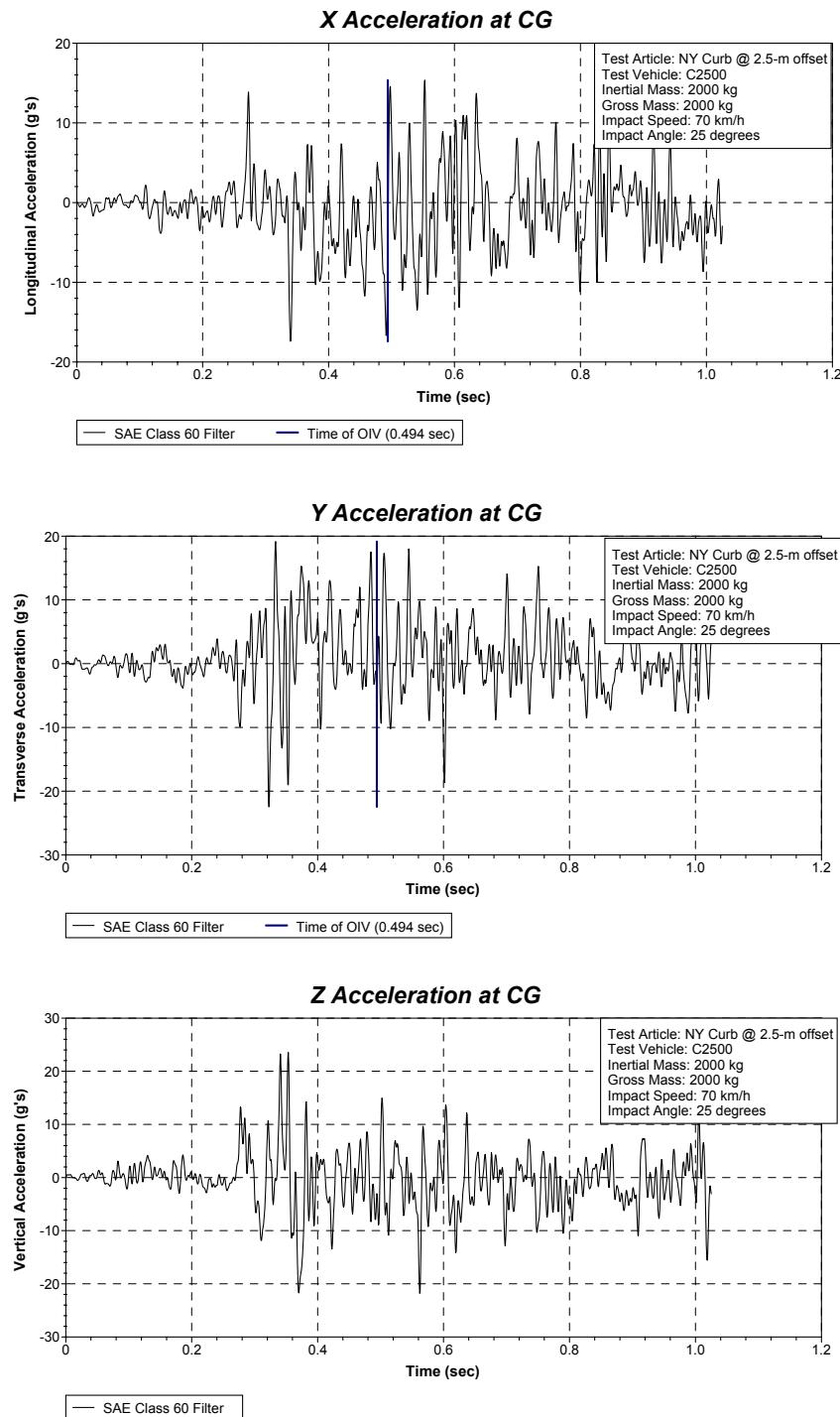


Figure I.16: Acceleration-time histories at C.G. of pickup truck in local coordinates:
Curb Type -- New York Curb (100 mm)
Impact Speed – 70 km/hr
Offset Distance – 2.5 m.

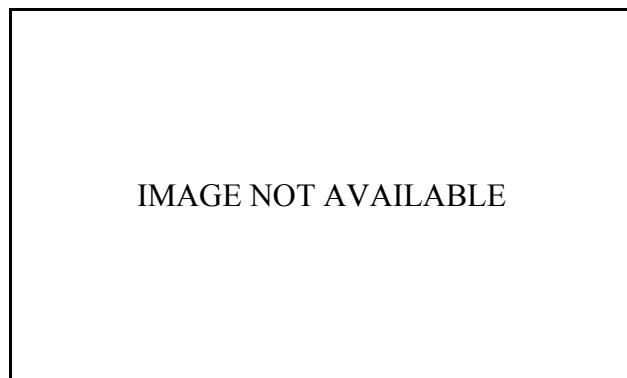


Figure I.17: Acceleration-time histories at C.G. of pickup truck in local coordinates:
Curb Type -- AASHTO B Curb
Impact Speed – 85 km/hr
Offset Distance – 2.5 m.

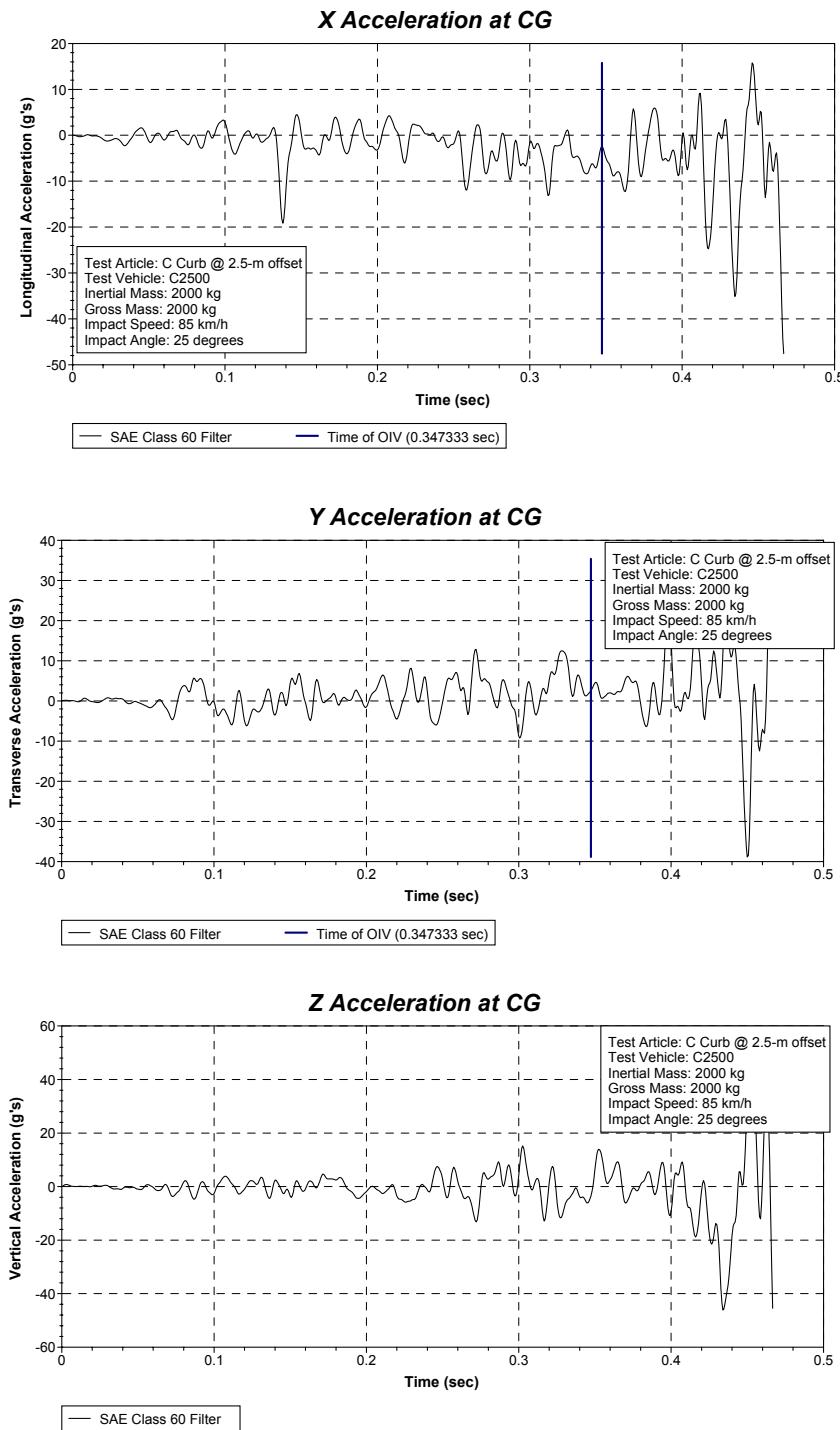


Figure I.18: Acceleration-time histories at C.G. of pickup truck in local coordinates:
Curb Type -- AASHTO C Curb
Impact Speed – 85 km/hr
Offset Distance – 2.5 m.

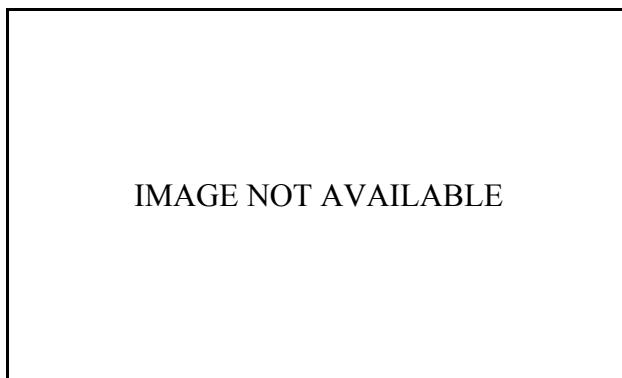


Figure I.19: Acceleration-time histories at C.G. of pickup truck in local coordinates:
Curb Type -- AASHTO G Curb
Impact Speed – 100 km/hr
Offset Distance – 2.5 m.

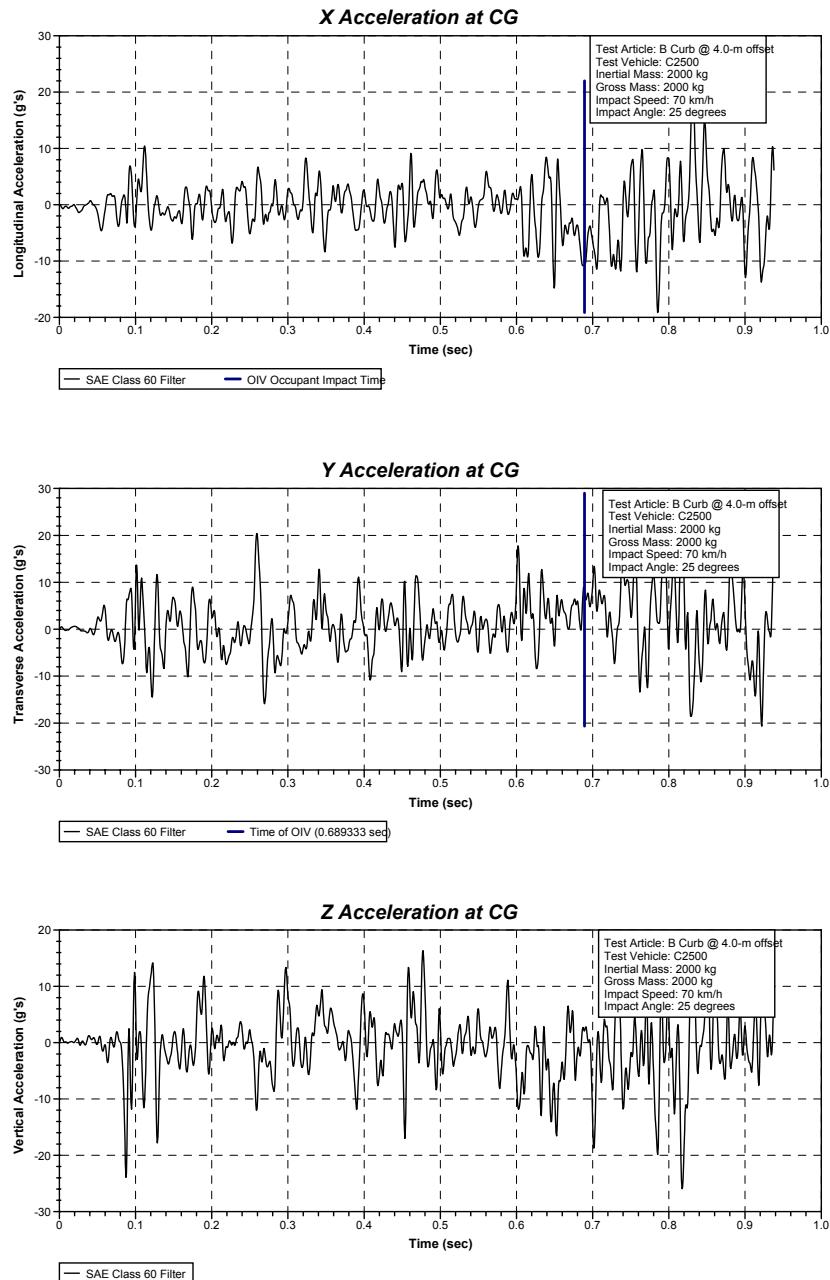


Figure I.20: Acceleration-time histories at C.G. of pickup truck in local coordinates:
Curb Type -- AASHTO B Curb
Impact Speed – 70 km/hr
Offset Distance – 4.0 m.

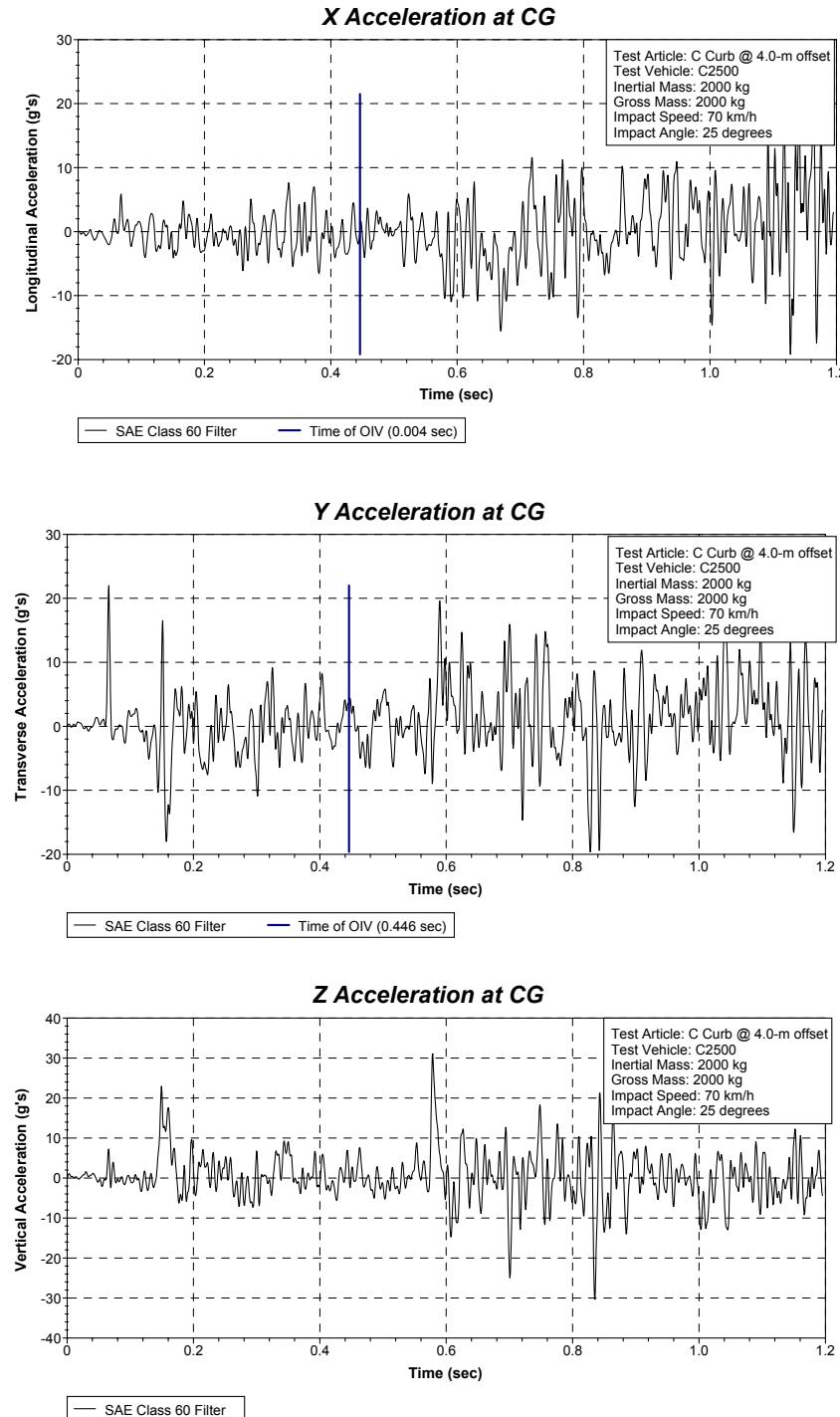


Figure I.21: Acceleration-time histories at C.G. of pickup truck in local coordinates:
Curb Type -- AASHTO C Curb
Impact Speed – 70 km/hr
Offset Distance – 4.0 m.

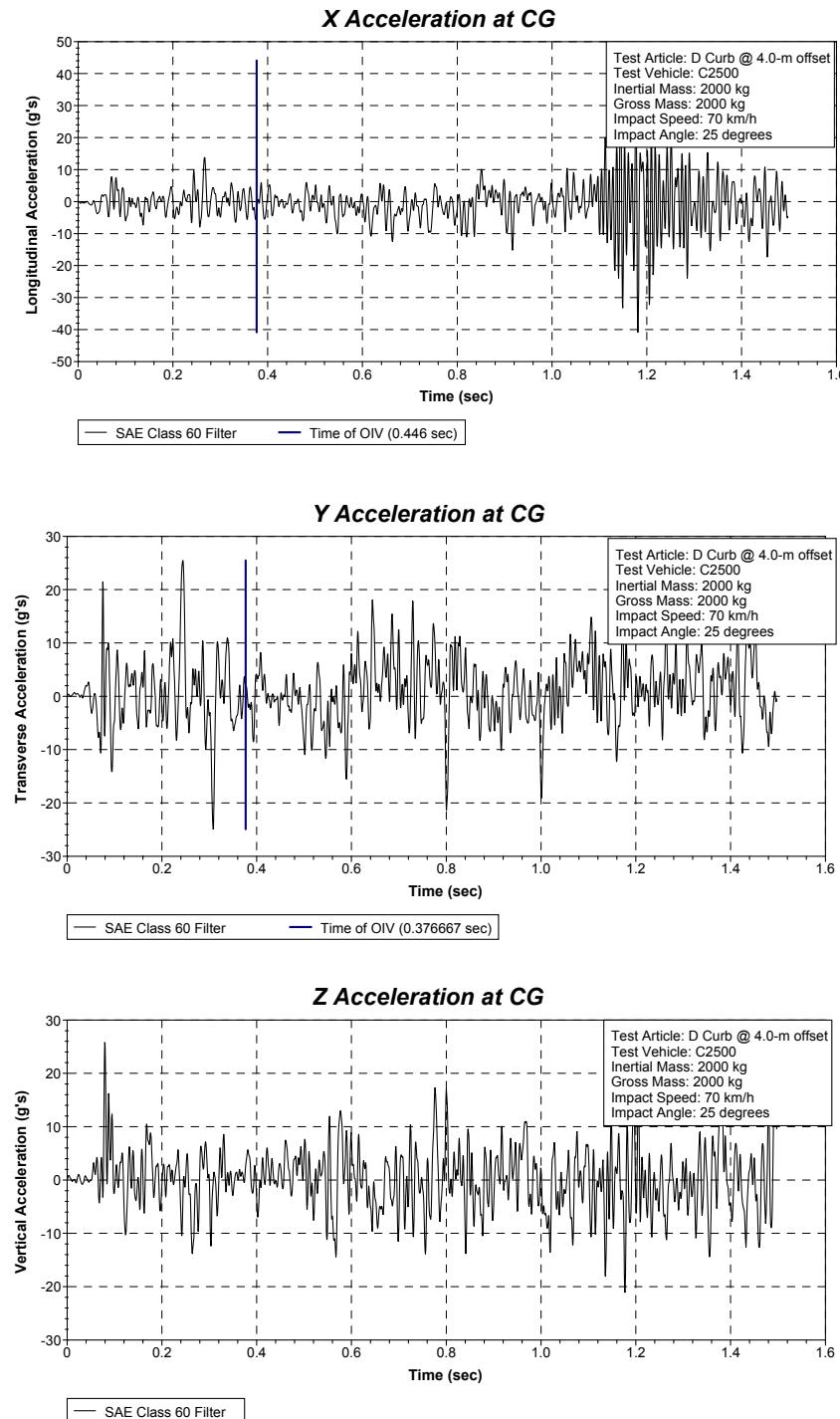


Figure I.22: Acceleration-time histories at C.G. of pickup truck in local coordinates:
Curb Type -- AASHTO D Curb
Impact Speed – 70 km/hr
Offset Distance – 4.0 m.

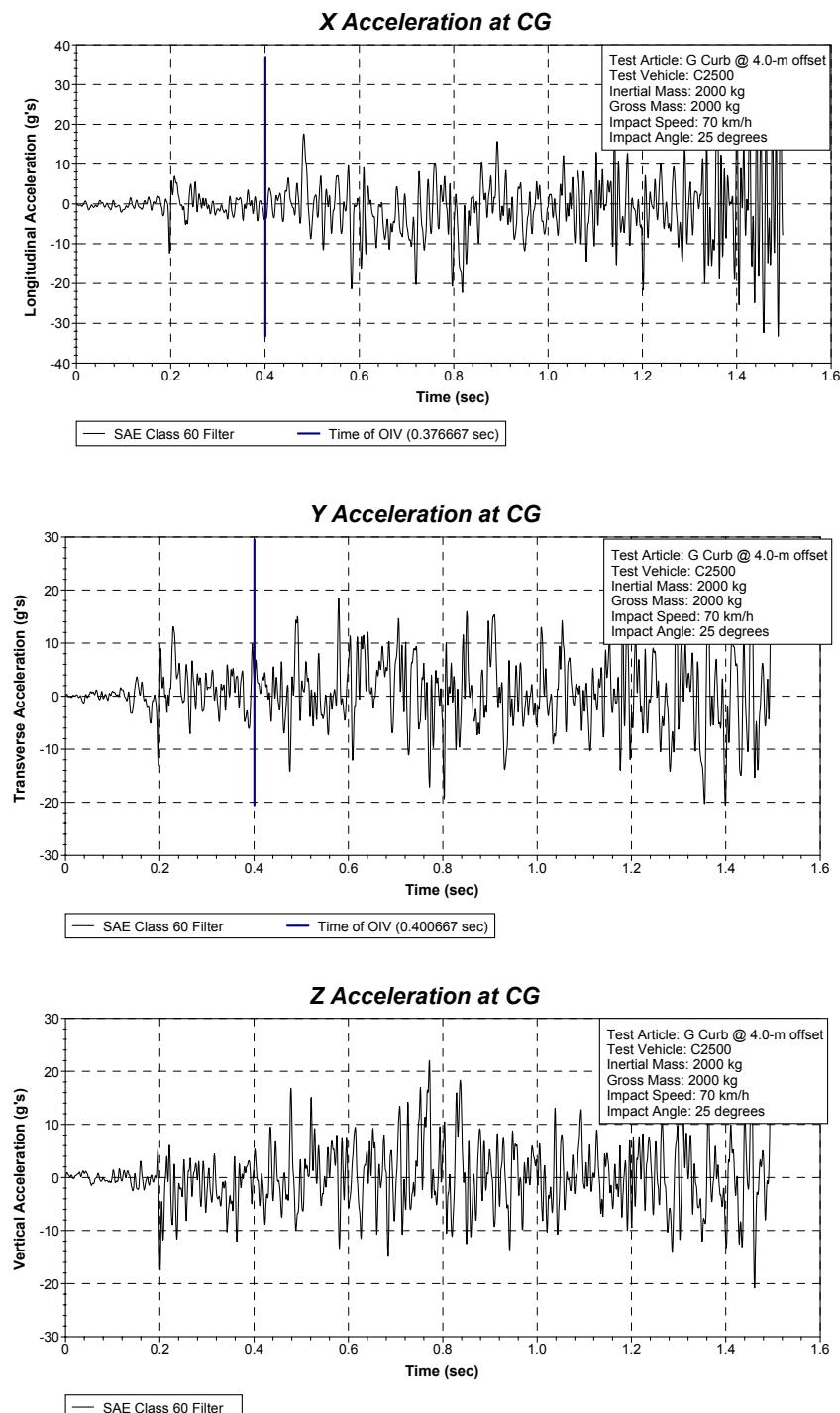


Figure I.23: Acceleration-time histories at C.G. of pickup truck in local coordinates:

Curb Type	-- AASHTO G Curb
Impact Speed	- 70 km/hr
Offset Distance	- 4.0 m.

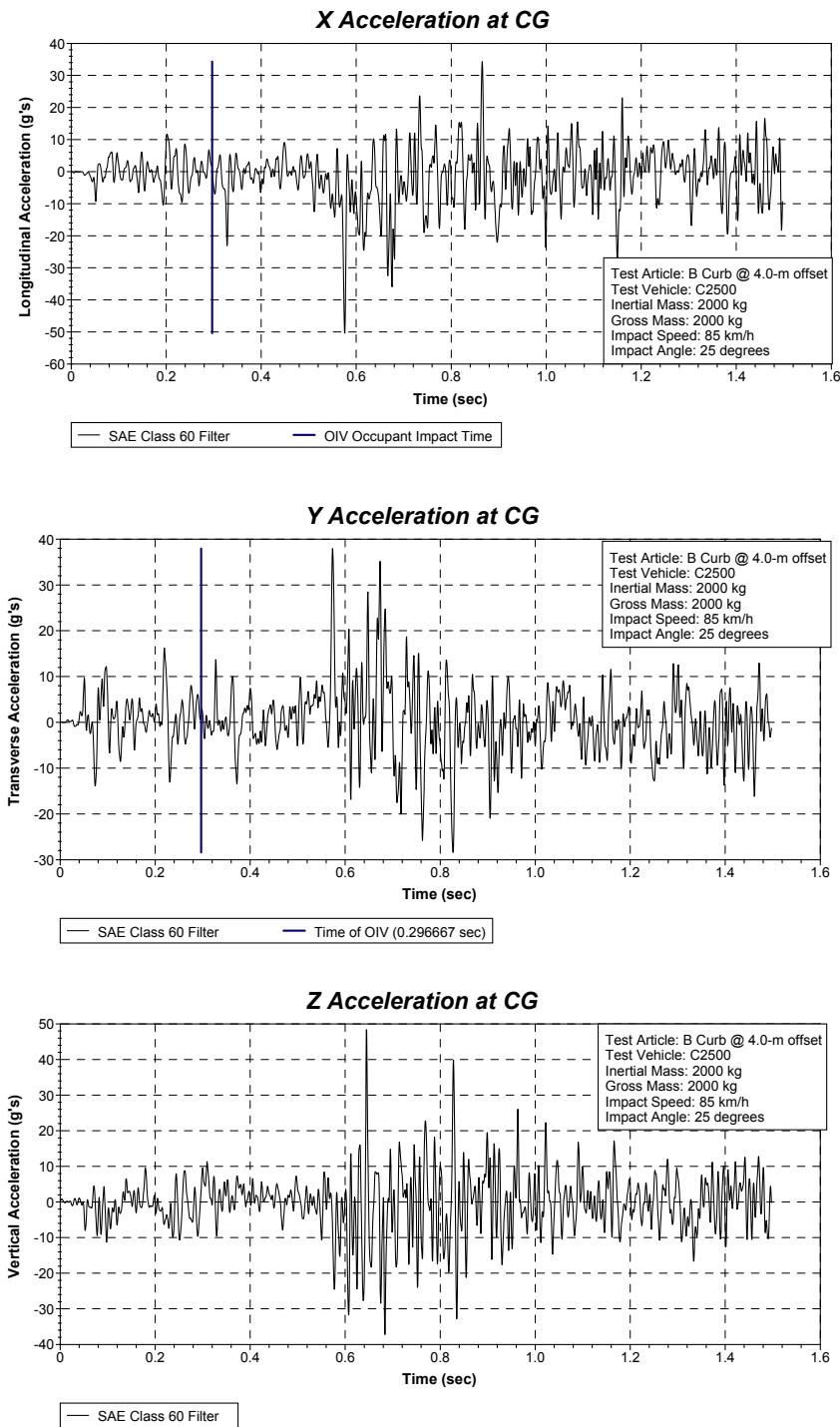


Figure I.24: Acceleration-time histories at C.G. of pickup truck in local coordinates:
Curb Type -- AASHTO B Curb
Impact Speed – 85 km/hr
Offset Distance – 4.0 m.

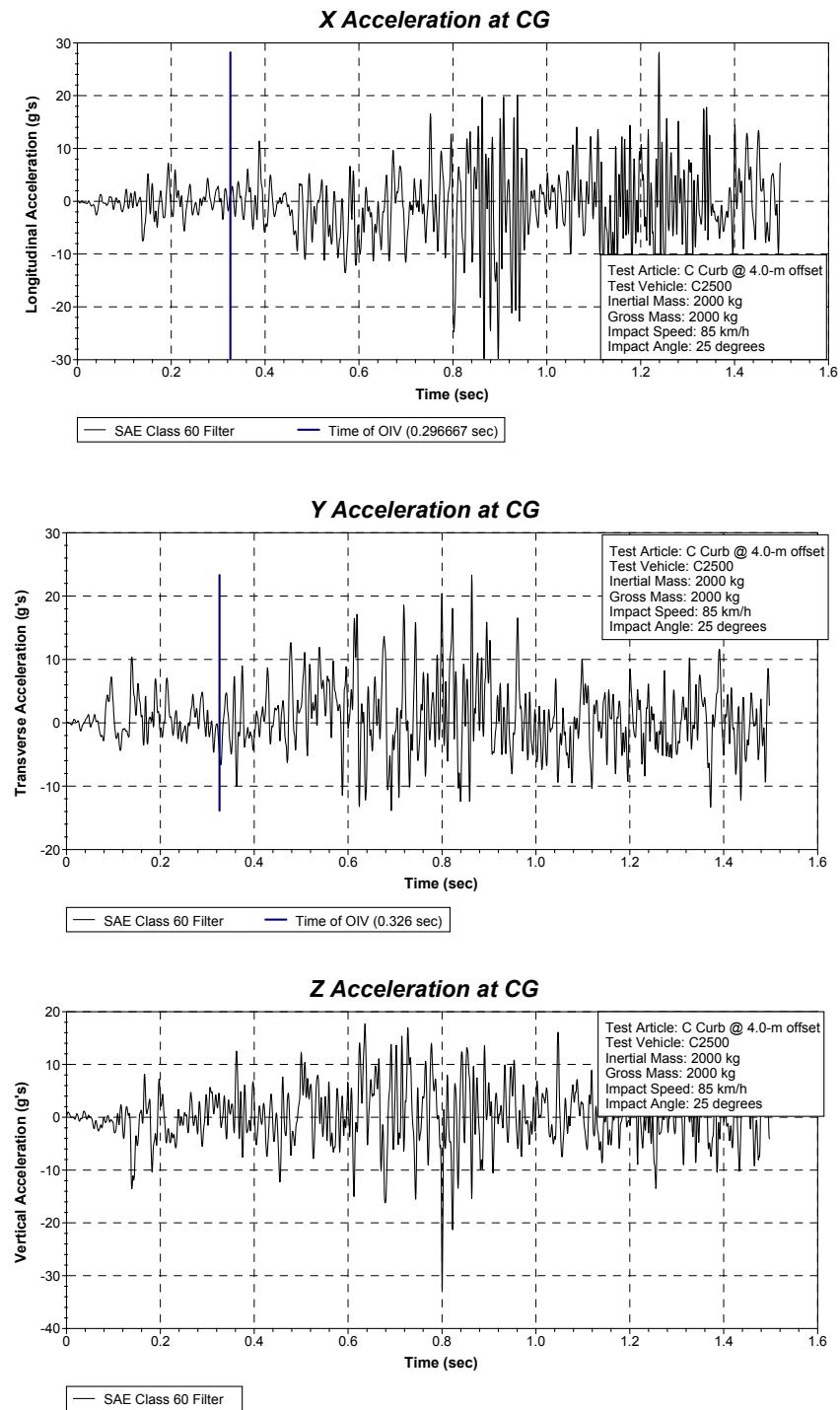


Figure I.25: Acceleration-time histories at C.G. of pickup truck in local coordinates:

Curb Type	-- AASHTO C Curb
Impact Speed	- 85 km/hr
Offset Distance	- 4.0 m.

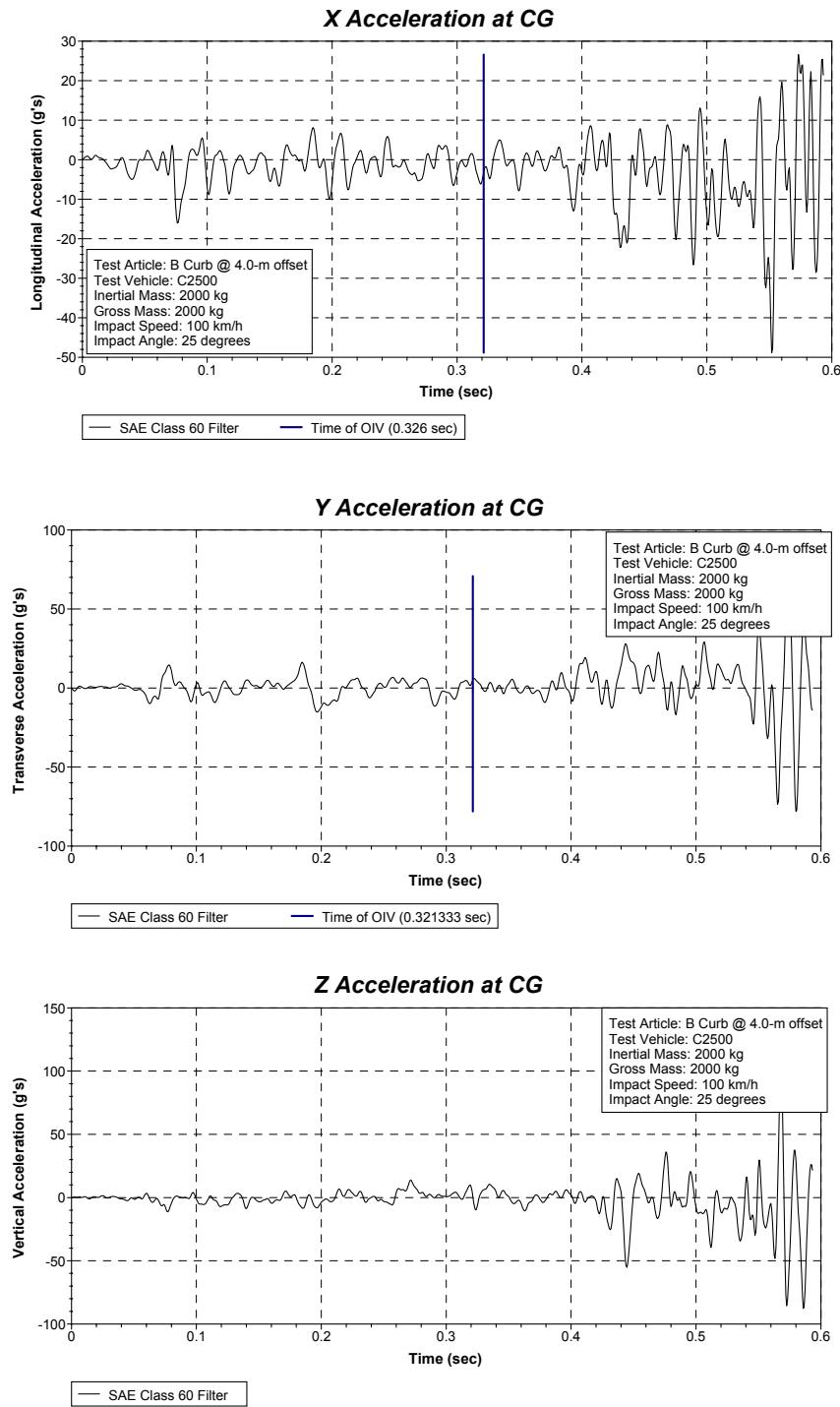


Figure I.26: Acceleration-time histories at C.G. of pickup truck in local coordinates:

Curb Type	-- AASHTO B Curb
Impact Speed	- 100 km/hr
Offset Distance	- 4.0 m.

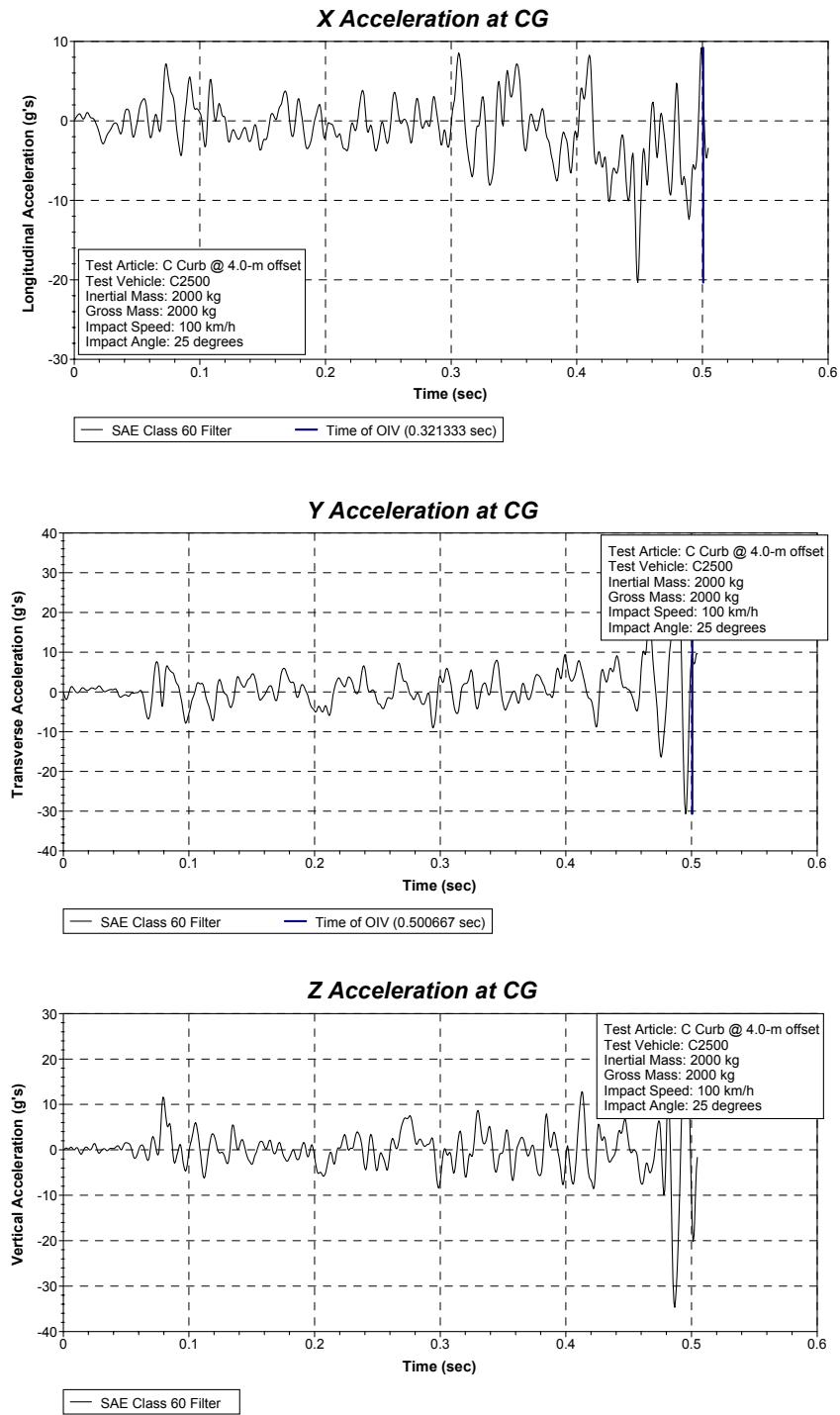


Figure I.27: Acceleration-time histories at C.G. of pickup truck in local coordinates:

Curb Type	-- AASHTO C Curb
Impact Speed	- 100 km/hr
Offset Distance	- 4.0 m.

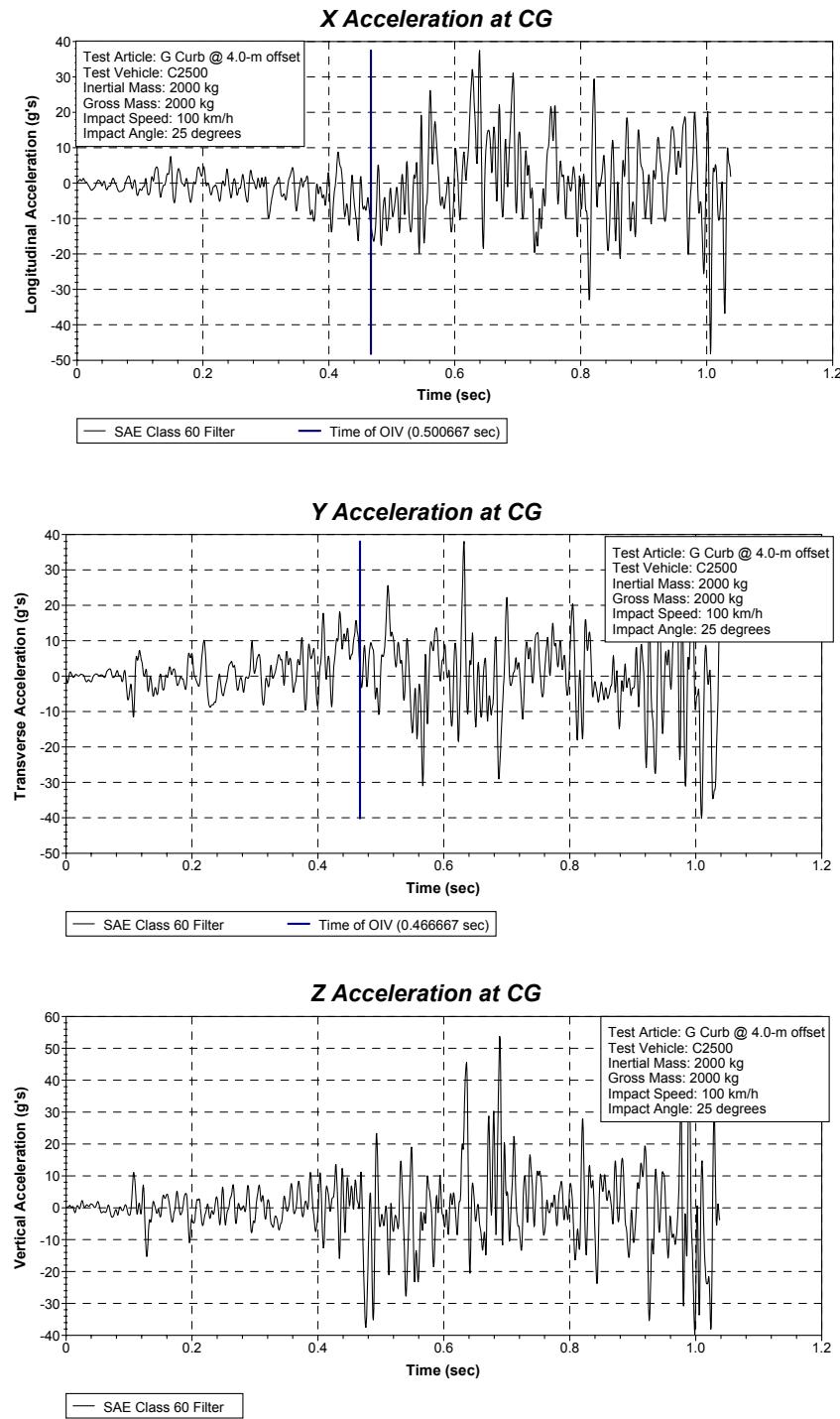


Figure I.28: Acceleration-time histories at C.G. of pickup truck in local coordinates:

Curb Type	-- AASHTO G Curb
Impact Speed	- 100 km/hr
Offset Distance	- 4.0 m.

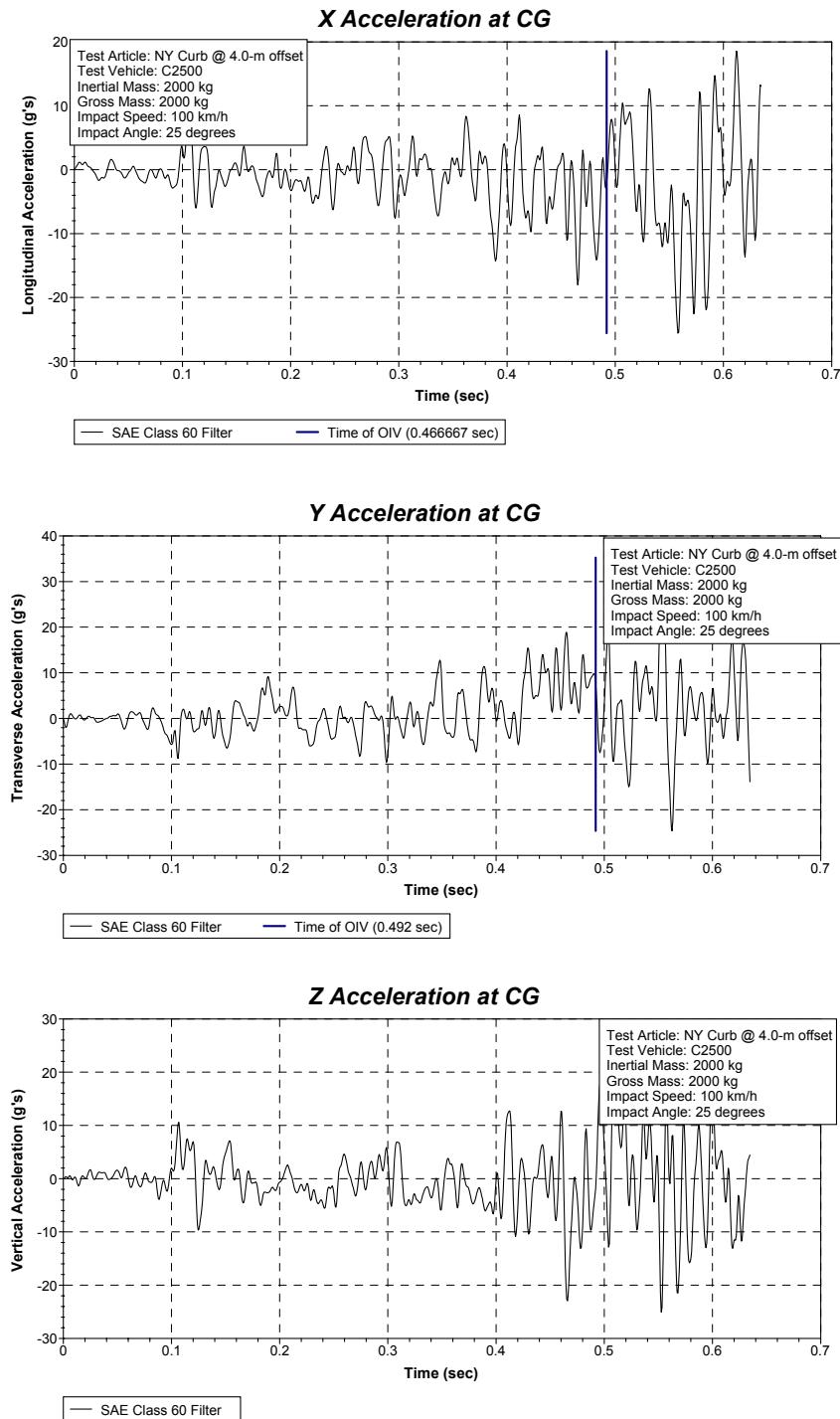


Figure I.29: Acceleration-time histories at C.G. of pickup truck in local coordinates:

Curb Type	-- New York Curb (100 mm)
Impact Speed	- 100 km/hr
Offset Distance	- 4.0 m.