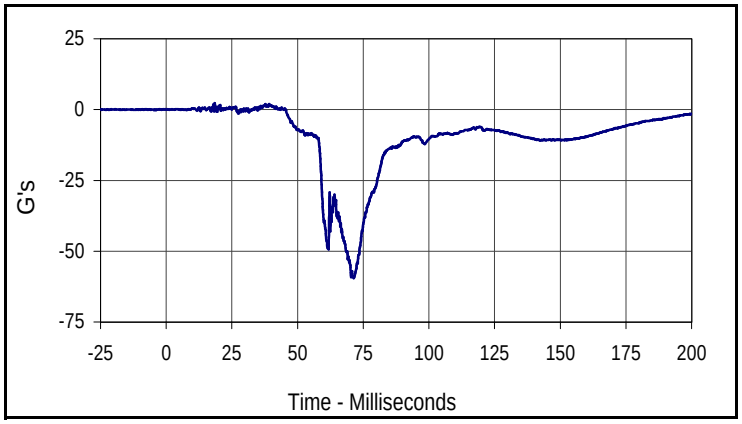
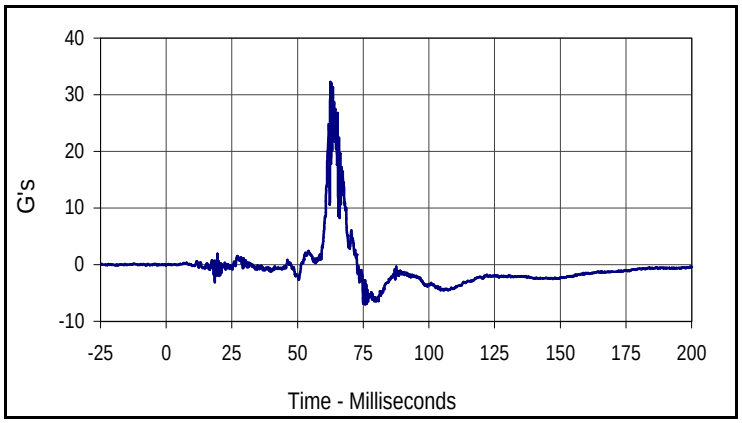
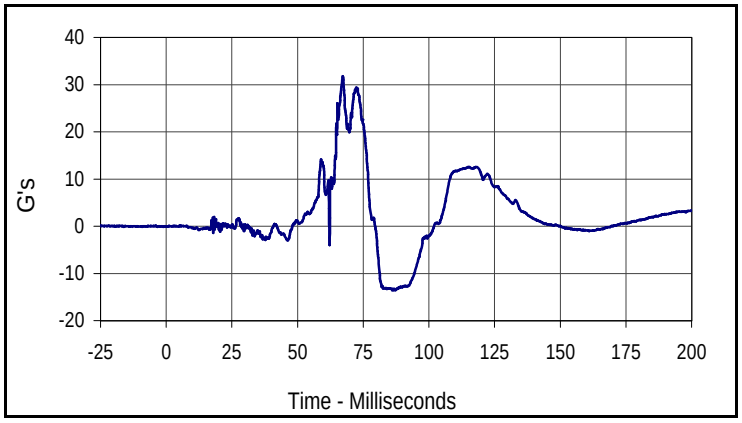
Test Vehicle:	2004 Jeep Liberty 4-Door MPV	Test Date:	9/9/04
Test Program:	2004 FMVSS 208 Upgrade	NHTSA No.:	R40401



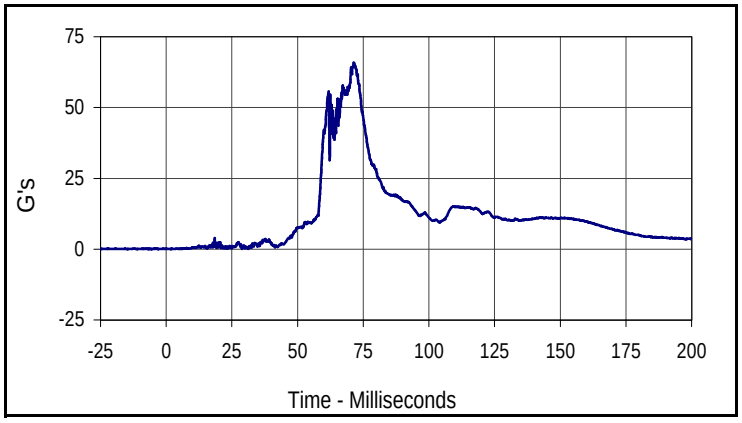
Curve Description			
Driver (50th) Head Primary X			
CURNO	Type	SAE Class	Units
001	FIL	1000	G's
Max	Time	Min	Time
2.3	18.5	-59.6	71.4



Curve Description			
Driver (50th) Head Primary Y			
CURNO	Type	SAE Class	Units
002	FIL	1000	G's
Max	Time	Min	Time
32.2	62.5	-7.0	75.9

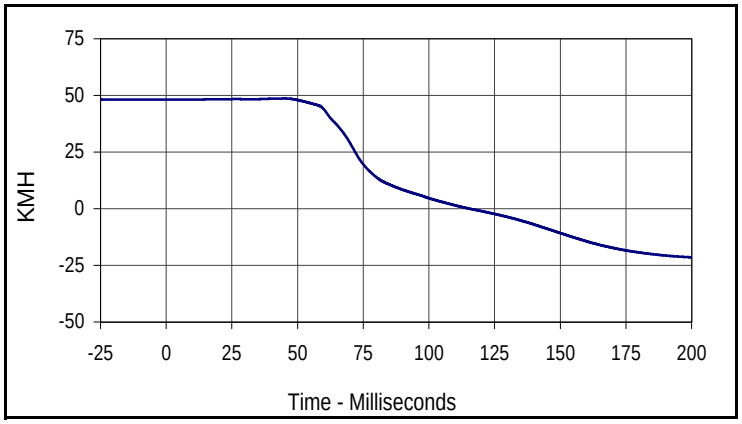


Curve Description			
Driver (50th) Head Primary Z			
CURNO	Type	SAE Class	Units
003	FIL	1000	G's
Max	Time	Min	Time
31.8	67.2	-13.6	87.3

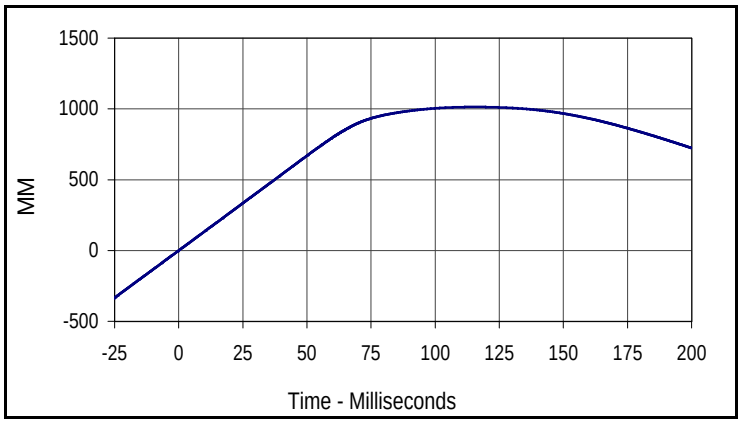


Curve Description			
Driver (50th) Head Resultant Primary			
CURNO	Type	SAE Class	Units
001	RES	1000	G's
Max	Time	Min	Time
65.9	71.4	0.0	1.8

Test Vehicle:	2004 Jeep Liberty 4-Door MPV	Test Date:	9/9/04
Test Program:	2004 FMVSS 208 Upgrade	NHTSA No.:	R40401

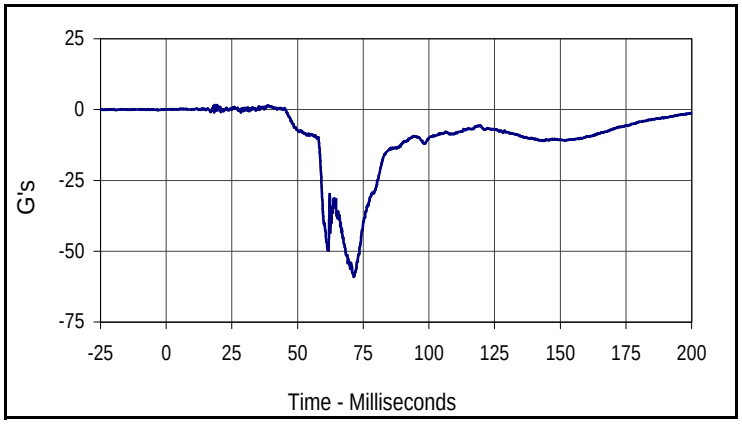


Curve Description			
Driver (50th) Head Primary X Velocity			
CURNO	Type	SAE Class	Units
001	IN1	180	KMH
Max	Time	Min	Time
48.7	45.1	-21.5	200.0

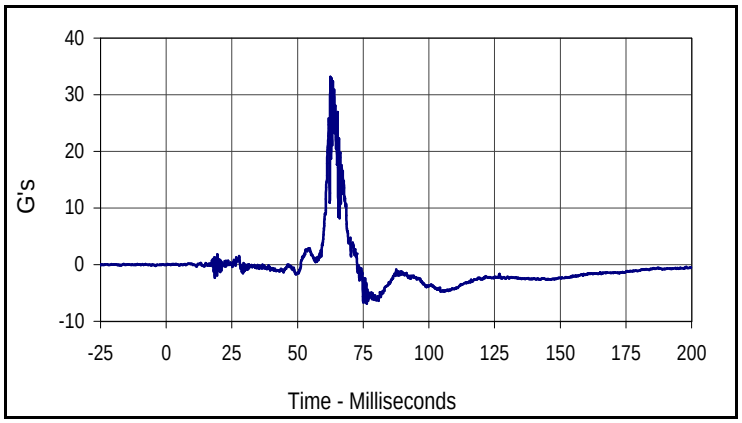


Curve Description			
Driver (50th) Head Primary X Displacement			
CURNO	Type	SAE Class	Units
001	IN2	180	MM
Max	Time	Min	Time
1013.6	115.5	0.0	0.0

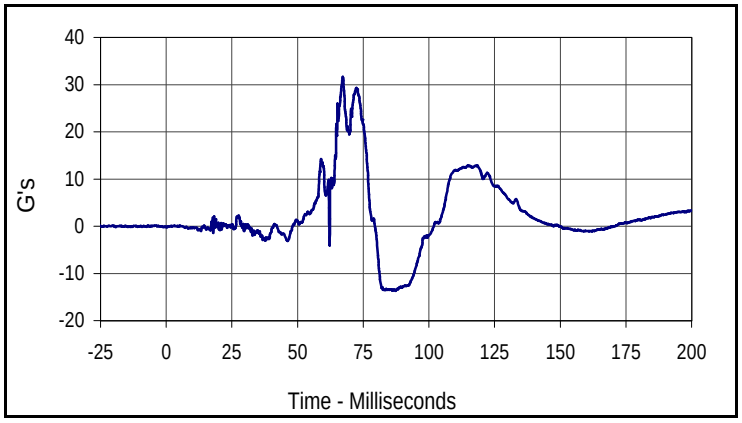
Test Vehicle:	2004 Jeep Liberty 4-Door MPV	Test Date:	9/9/04
Test Program:	2004 FMVSS 208 Upgrade	NHTSA No.:	R40401



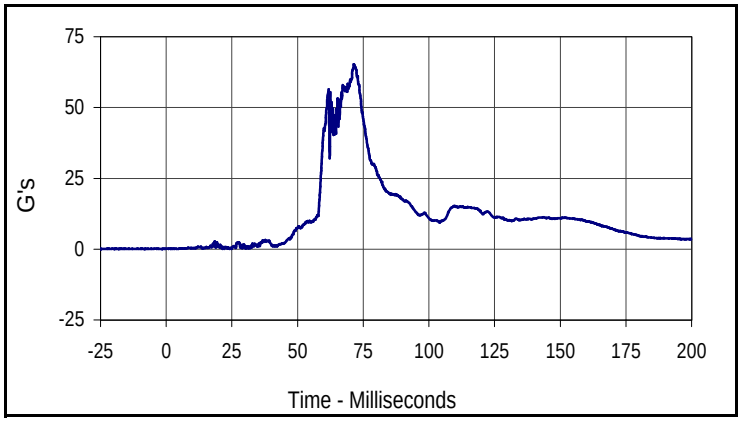
Curve Description			
Driver (50th) NAAH CG X			
CURNO	Type	SAE Class	Units
004	FIL	1000	G's
Max	Time	Min	Time
1.6	18.5	-59.0	71.4



Curve Description			
Driver (50th) NAAH CG Y			
CURNO	Type	SAE Class	Units
005	FIL	1000	G's
Max	Time	Min	Time
33.1	62.5	-6.9	76.4

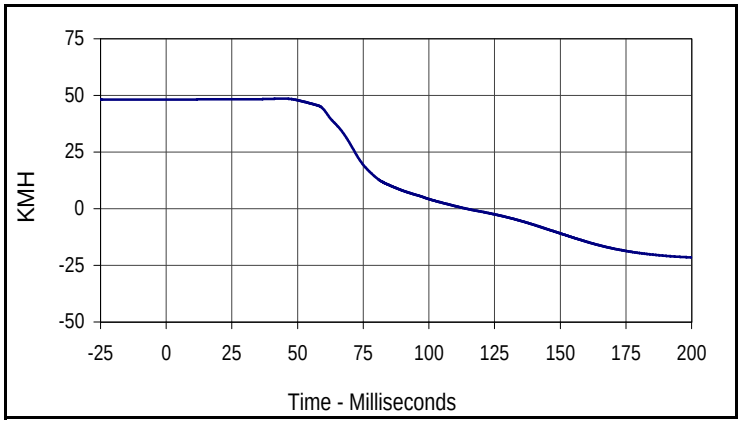


Curve Description			
Driver (50th) NAAH CG Z			
CURNO	Type	SAE Class	Units
006	FIL	1000	G's
Max	Time	Min	Time
31.7	67.2	-13.7	87.3

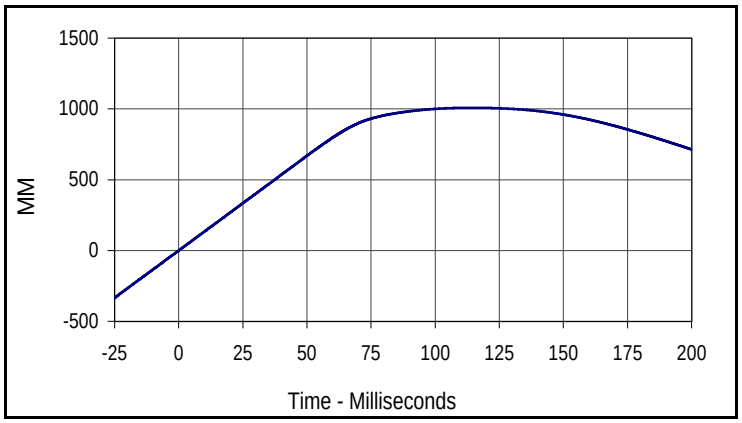


Curve Description			
Driver (50th) NAAH CG Resultant			
CURNO	Type	SAE Class	Units
004	RES	1000	G's
Max	Time	Min	Time
65.3	71.5	0.1	4.3

Test Vehicle:	2004 Jeep Liberty 4-Door MPV	Test Date:	9/9/04
Test Program:	2004 FMVSS 208 Upgrade	NHTSA No.:	R40401

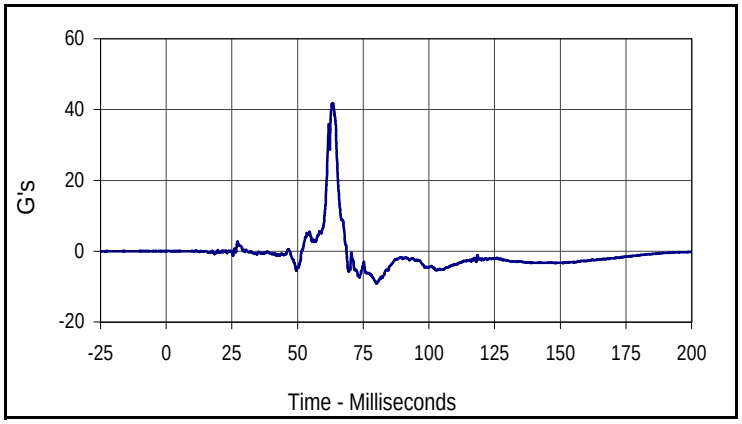


Curve Description			
Driver (50th) NAAH CG X Velocity			
CURNO	Type	SAE Class	Units
004	IN1	180	KMH
Max	Time	Min	Time
48.6	45.3	-21.5	200.0

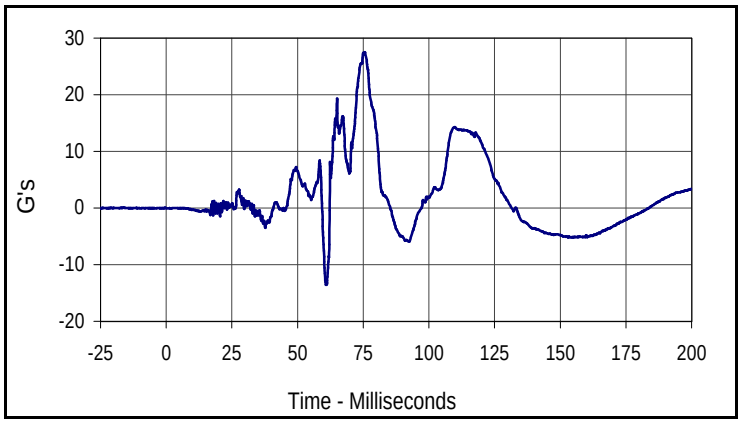


Curve Description			
Driver (50th) NAAH CG X Displacement			
CURNO	Type	SAE Class	Units
004	IN2	180	MM
Max	Time	Min	Time
1008.1	114.3	0.0	0.0

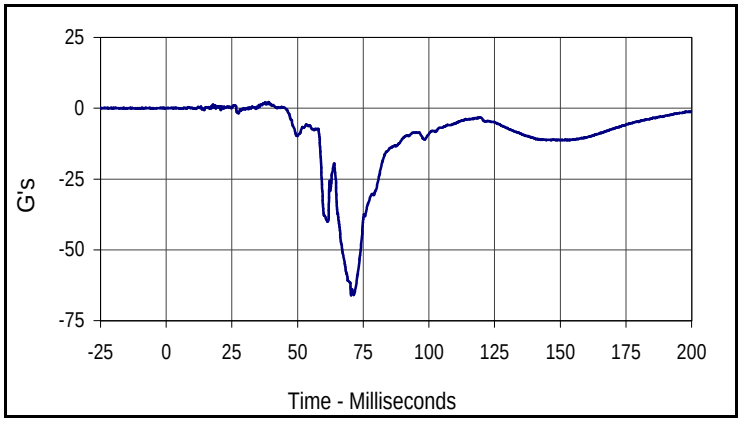
Test Vehicle:	2004 Jeep Liberty 4-Door MPV	Test Date:	9/9/04
Test Program:	2004 FMVSS 208 Upgrade	NHTSA No.:	R40401



Curve Description			
Driver (50th) NAAH Xarm-Y			
CURNO	Type	SAE Class	Units
007	FIL	1000	G's
Max	Time	Min	Time
41.8	63.5	-9.2	80.0

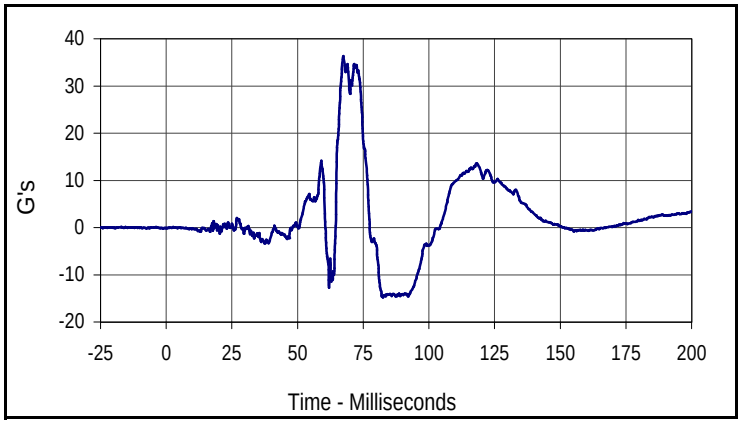


Curve Description			
Driver (50th) NAAH Xarm-Z			
CURNO	Type	SAE Class	Units
008	FIL	1000	G's
Max	Time	Min	Time
27.5	75.6	-13.6	61.0

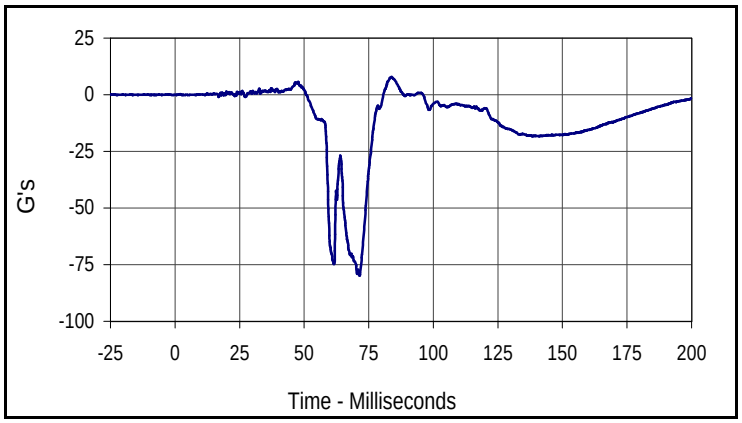


Curve Description			
Driver (50th) NAAH Yarm-X			
CURNO	Type	SAE Class	Units
009	FIL	1000	G's
Max	Time	Min	Time
2.1	39.1	-66.1	70.4

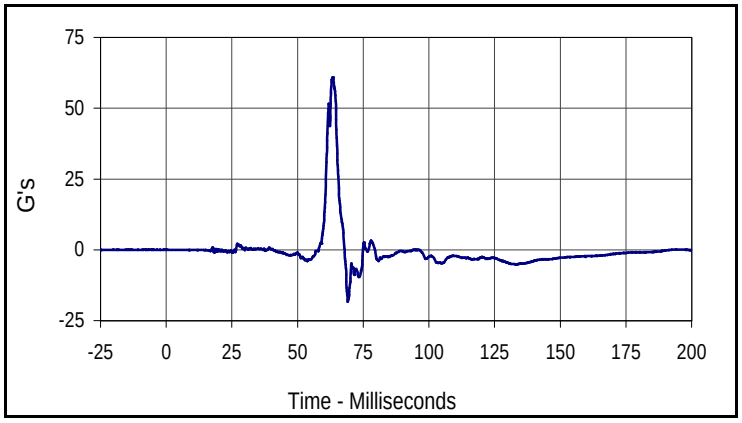
Test Vehicle:	2004 Jeep Liberty 4-Door MPV	Test Date:	9/9/04
Test Program:	2004 FMVSS 208 Upgrade	NHTSA No.:	R40401



Curve Description			
Driver (50th) NAAH Yarm-Z			
CURNO	Type	SAE Class	Units
010	FIL	1000	G's
Max	Time	Min	Time
36.4	67.4	-14.8	82.5

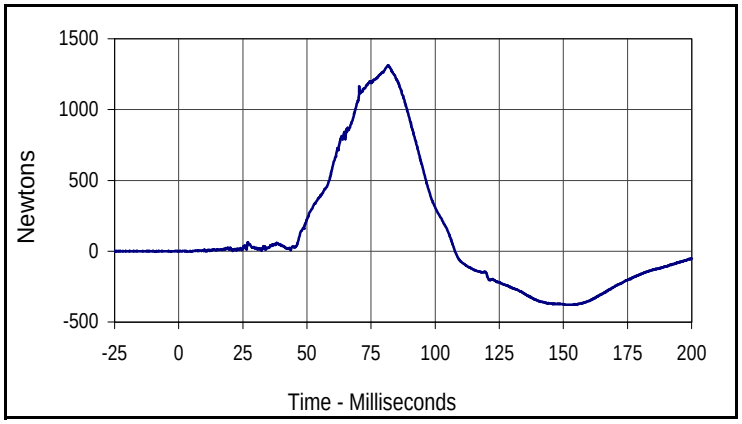


Curve Description			
Driver (50th) NAAH Zarm-X			
CURNO	Type	SAE Class	Units
011	FIL	1000	G's
Max	Time	Min	Time
7.9	83.8	-79.8	71.5

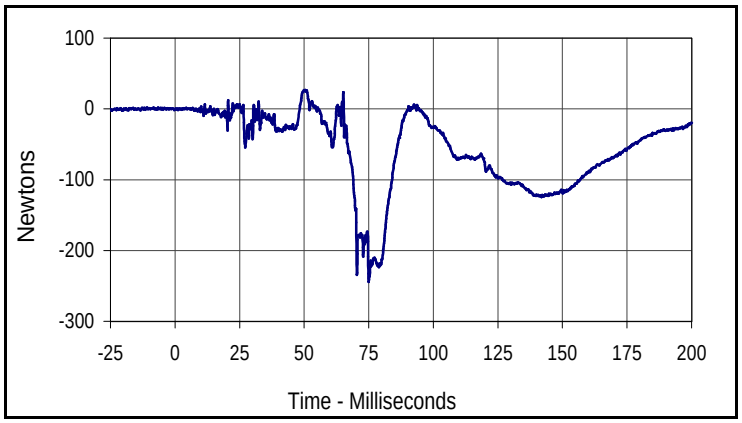


Curve Description			
Driver (50th) NAAH Zarm-Y			
CURNO	Type	SAE Class	Units
012	FIL	1000	G's
Max	Time	Min	Time
60.9	63.3	-18.3	69.1

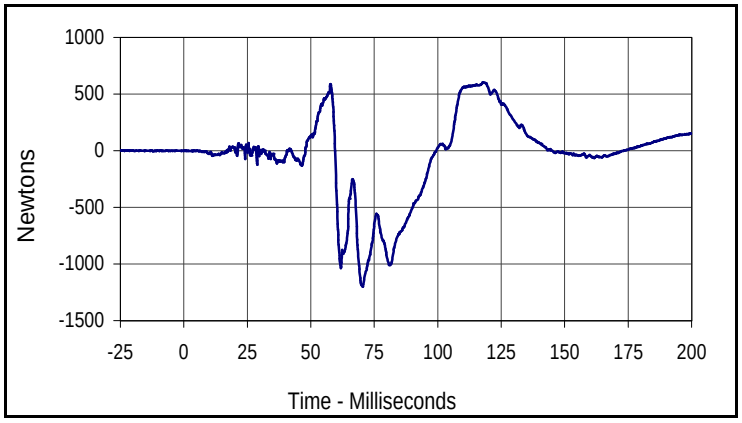
Test Vehicle:	2004 Jeep Liberty 4-Door MPV	Test Date:	9/9/04
Test Program:	2004 FMVSS 208 Upgrade	NHTSA No.:	R40401



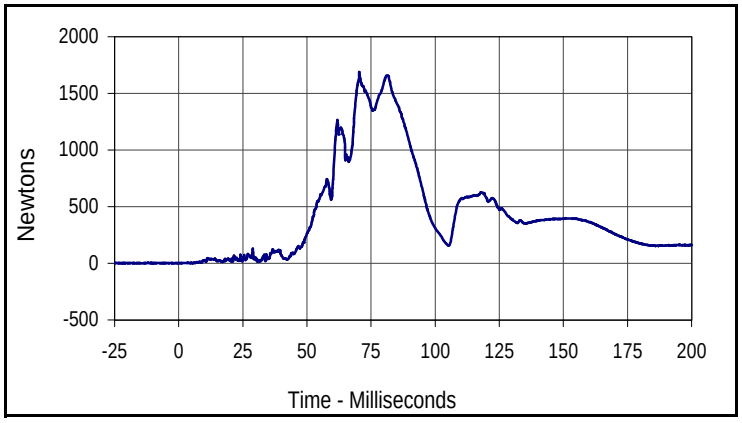
Curve Description			
Driver (50th) Upper Neck Force X			
CURNO	Type	SAE Class	Units
013	FIL	1000	Newtons
Max	Time	Min	Time
1312.0	81.8	-378.8	152.2



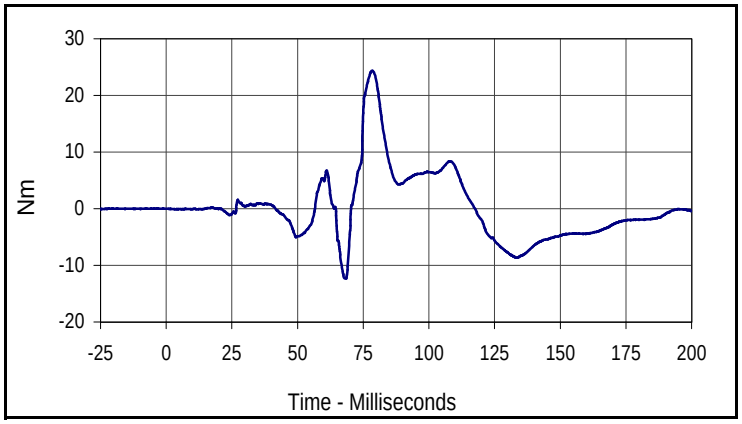
Curve Description			
Driver (50th) Upper Neck Force Y			
CURNO	Type	SAE Class	Units
014	FIL	1000	Newtons
Max	Time	Min	Time
26.9	50.0	-243.8	75.0



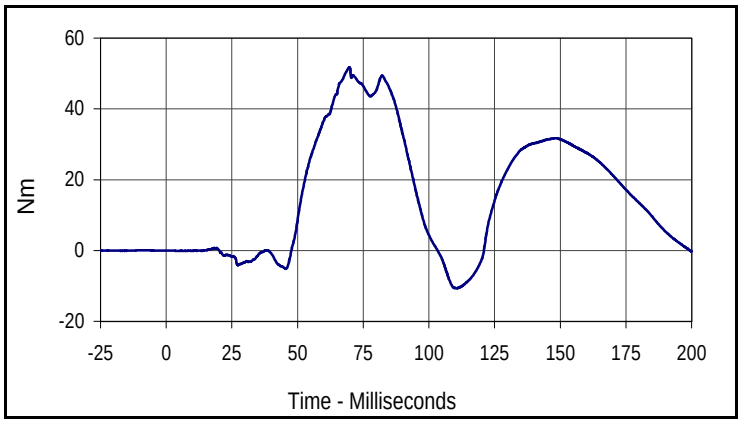
Curve Description			
Driver (50th) Upper Neck Force Z			
CURNO	Type	SAE Class	Units
015	FIL	1000	Newtons
Max	Time	Min	Time
604.5	117.8	-1201.6	70.4



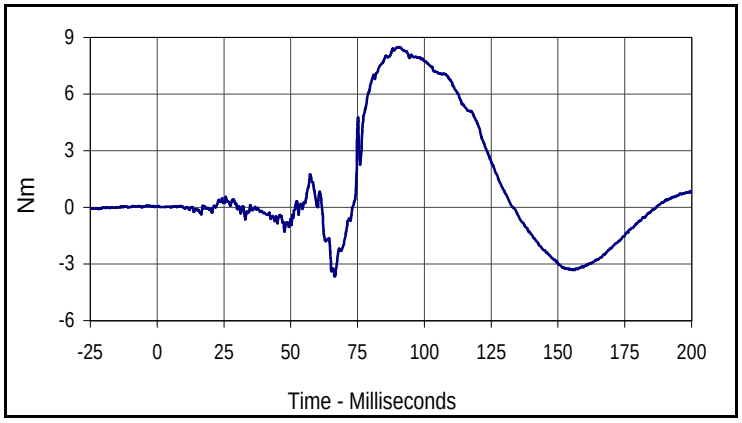
Curve Description			
Driver (50th) Upper Neck Force Res.			
CURNO	Type	SAE Class	Units
013	RES	1000	Newtons
Max	Time	Min	Time
1688.9	70.4	0.6	5.4



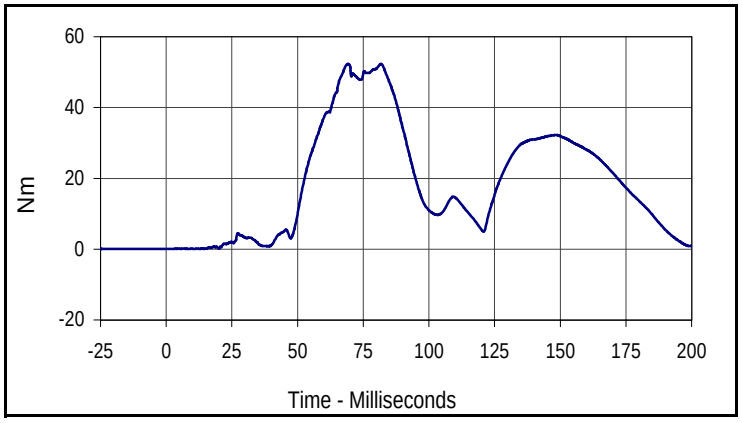
Curve Description			
Driver (50th) Upper Neck Moment X			
CURNO	Type	SAE Class	Units
016	FIL	600	Nm
Max	Time	Min	Time
24.4	78.4	-12.3	68.4



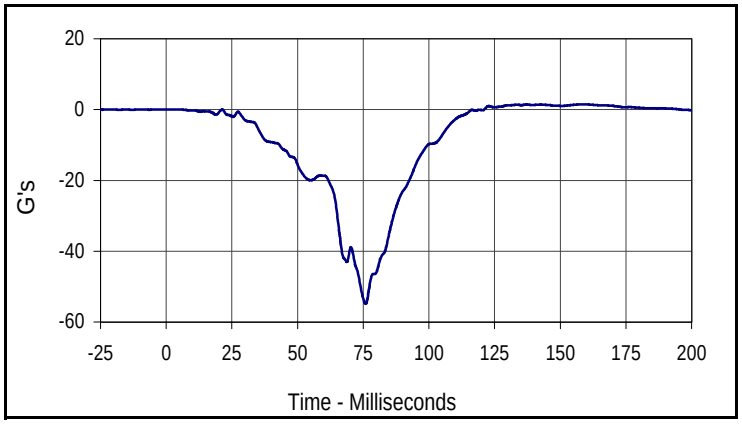
Curve Description			
Driver (50th) Upper Neck Moment Y			
CURNO	Type	SAE Class	Units
017	FIL	600	Nm
Max	Time	Min	Time
51.7	69.7	-10.7	110.4



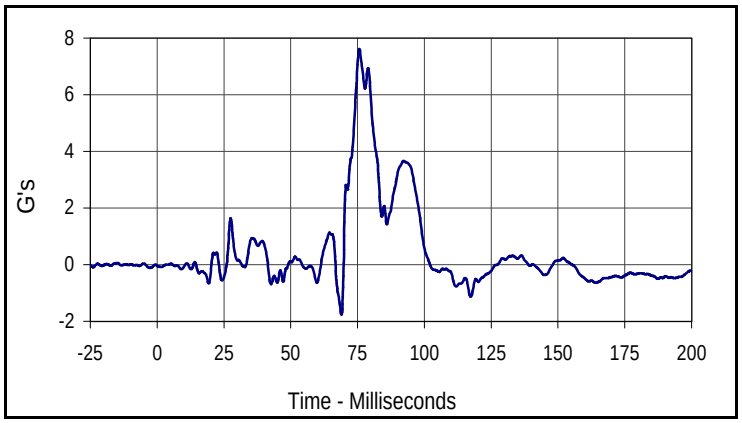
Curve Description			
Driver (50th) Upper Neck Moment Z			
CURNO	Type	SAE Class	Units
018	FIL	600	Nm
Max	Time	Min	Time
8.5	90.5	-3.7	66.5



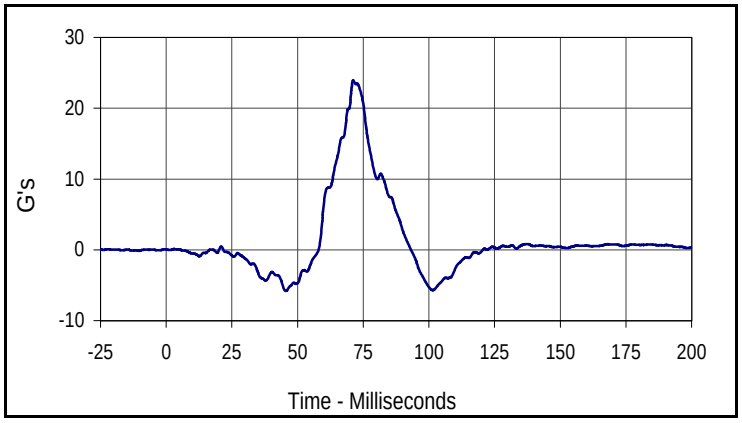
Curve Description			
Driver (50th) Upper Neck Moment Res.			
CURNO	Type	SAE Class	Units
016	RES	600	Nm
Max	Time	Min	Time
52.3	81.8	0.0	10.8



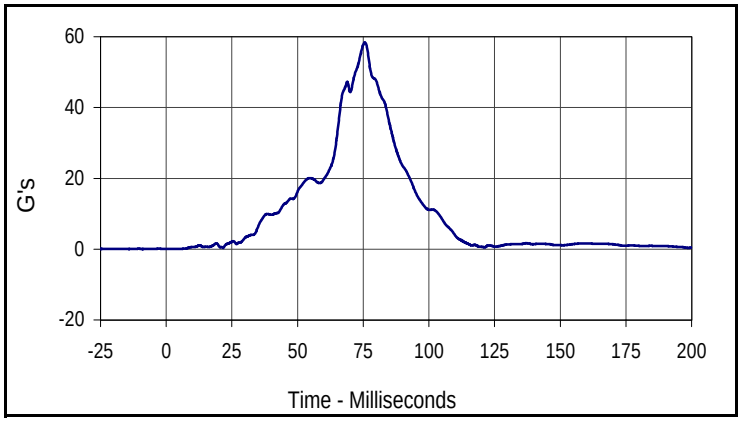
Curve Description			
Driver (50th) Chest Primary X			
CURNO	Type	SAE Class	Units
019	FIL	180	G's
Max	Time	Min	Time
1.5	158.7	-54.9	75.9



Curve Description			
Driver (50th) Chest Primary Y			
CURNO	Type	SAE Class	Units
020	FIL	180	G's
Max	Time	Min	Time
7.6	75.7	-1.8	69.0

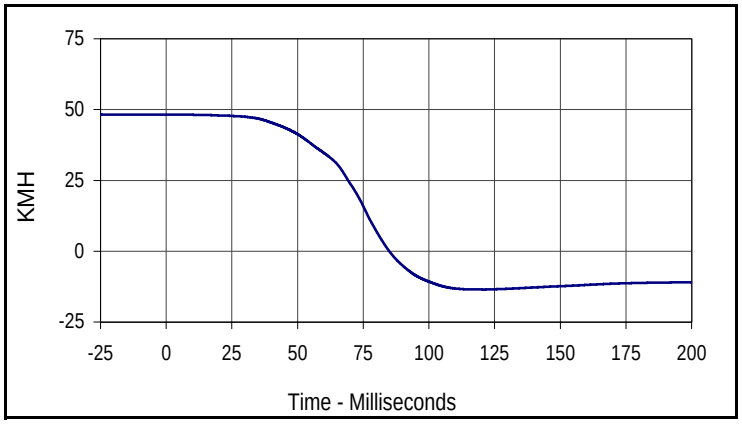


Curve Description			
Driver (50th) Chest Primary Z			
CURNO	Type	SAE Class	Units
021	FIL	180	G's
Max	Time	Min	Time
23.9	71.2	-5.8	45.6

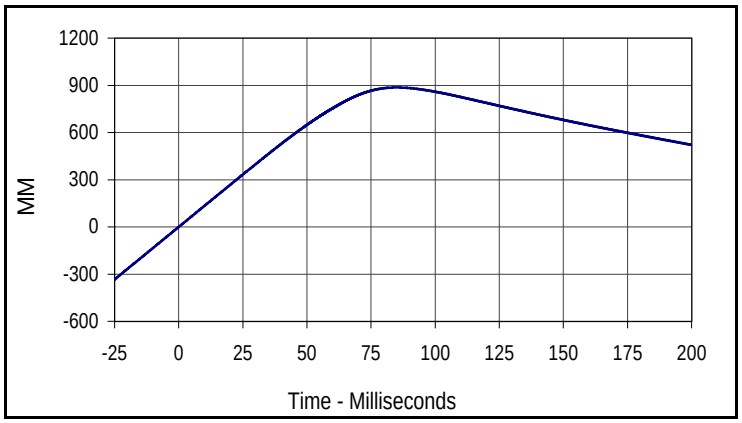


Curve Description			
Driver (50th) Chest Resultant Primary			
CURNO	Type	SAE Class	Units
019	RES	180	G's
Max	Time	Min	Time
58.4	75.6	0.0	5.6

Test Vehicle:	2004 Jeep Liberty 4-Door MPV	Test Date:	9/9/04
Test Program:	2004 FMVSS 208 Upgrade	NHTSA No.:	R40401

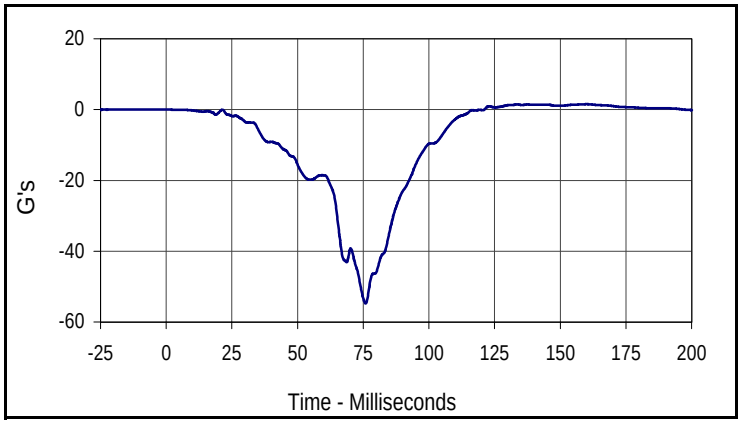


Curve Description			
Driver (50th) Chest Primary X Velocity			
CURNO	Type	SAE Class	Units
019	IN1	180	KMH
Max	Time	Min	Time
48.2	6.1	-13.5	121.1

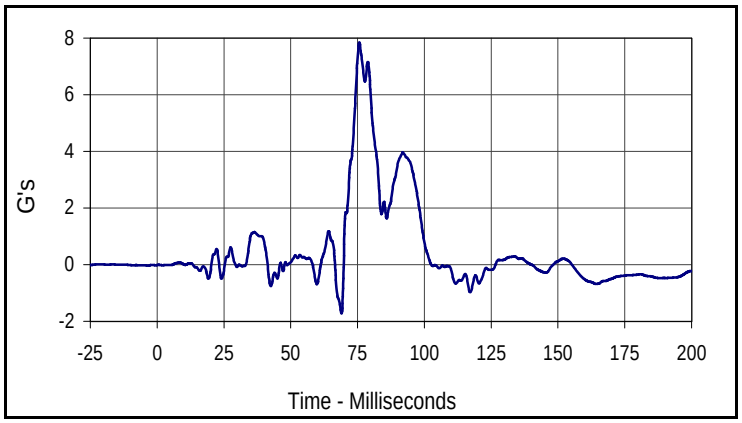


Curve Description			
Driver (50th) Chest Primary X Displacement			
CURNO	Type	SAE Class	Units
019	IN2	180	MM
Max	Time	Min	Time
886.2	84.9	0.0	0.0

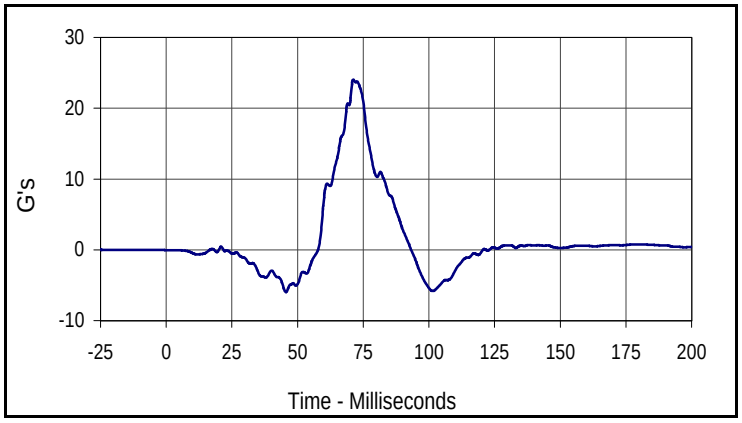
Test Vehicle:	2004 Jeep Liberty 4-Door MPV	Test Date:	9/9/04
Test Program:	2004 FMVSS 208 Upgrade	NHTSA No.:	R40401



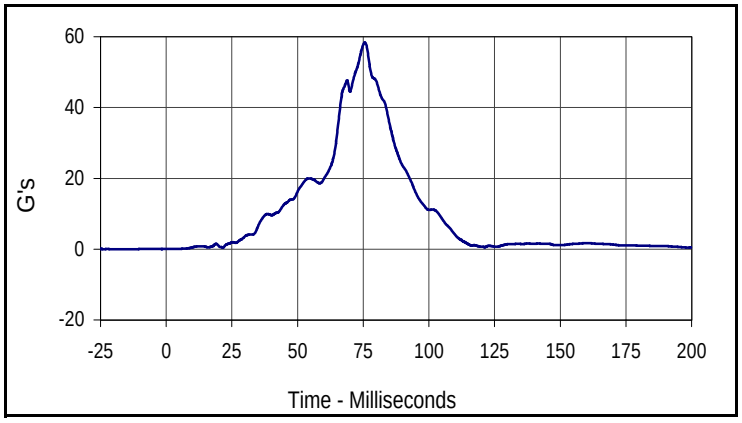
Curve Description			
Driver (50th) Chest Redundant X			
CURNO	Type	SAE Class	Units
022	FIL	180	G's
Max	Time	Min	Time
1.5	160.0	-54.8	75.9



Curve Description			
Driver (50th) Chest Redundant Y			
CURNO	Type	SAE Class	Units
023	FIL	180	G's
Max	Time	Min	Time
7.8	75.7	-1.7	69.0

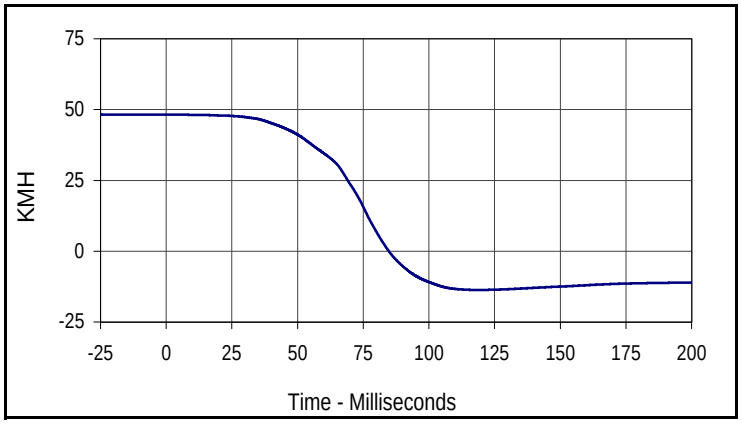


Curve Description			
Driver (50th) Chest Redundant Z			
CURNO	Type	SAE Class	Units
024	FIL	180	G's
Max	Time	Min	Time
24.0	71.2	-6.0	45.6

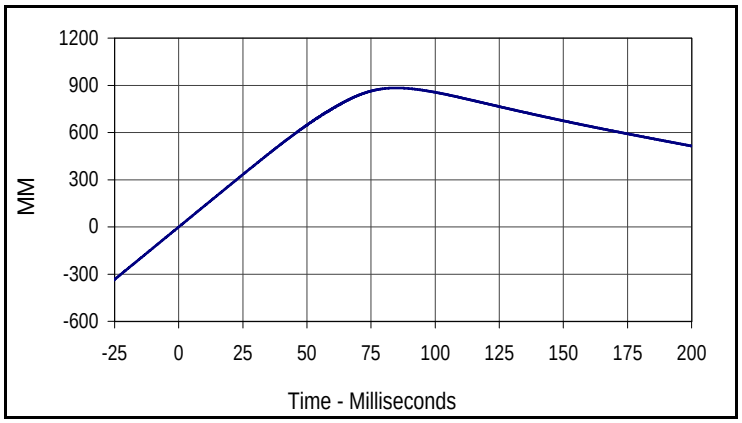


Curve Description			
Driver (50th) Chest Resultant Redundant			
CURNO	Type	SAE Class	Units
022	RES	180	G's
Max	Time	Min	Time
58.3	75.6	0.0	0.4

Test Vehicle:	2004 Jeep Liberty 4-Door MPV	Test Date:	9/9/04
Test Program:	2004 FMVSS 208 Upgrade	NHTSA No.:	R40401

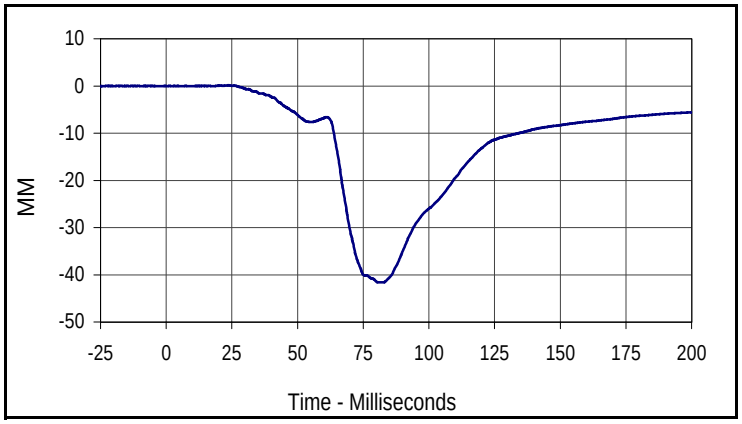


Curve Description			
Driver (50th) Chest Redundant X Velocity			
CURNO	Type	SAE Class	Units
022	IN1	180	KMH
Max	Time	Min	Time
48.2	0.0	-13.7	121.1

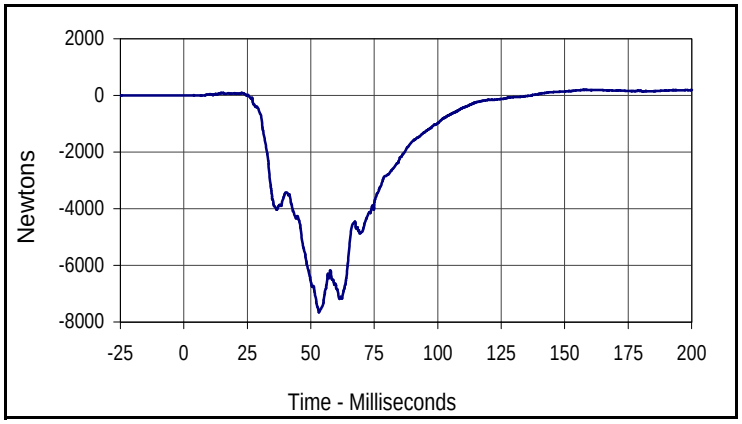


Curve Description			
Driver (50th) Chest Redundant X Displacement			
CURNO	Type	SAE Class	Units
022	IN2	180	MM
Max	Time	Min	Time
883.3	84.7	-0.1	0.0

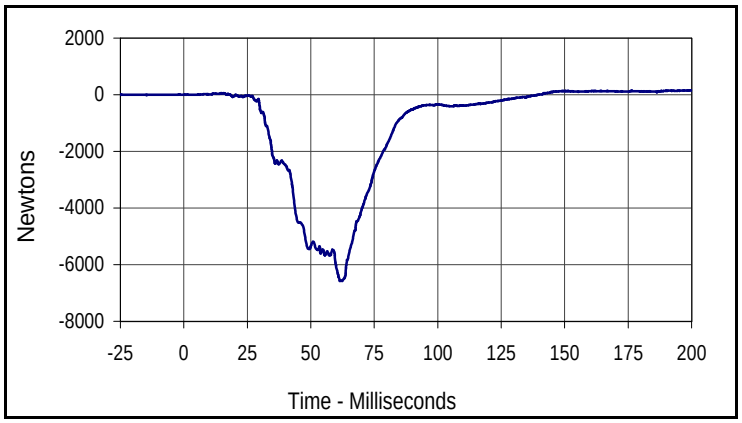
Test Vehicle:	2004 Jeep Liberty 4-Door MPV	Test Date:	9/9/04
Test Program:	2004 FMVSS 208 Upgrade	NHTSA No.:	R40401



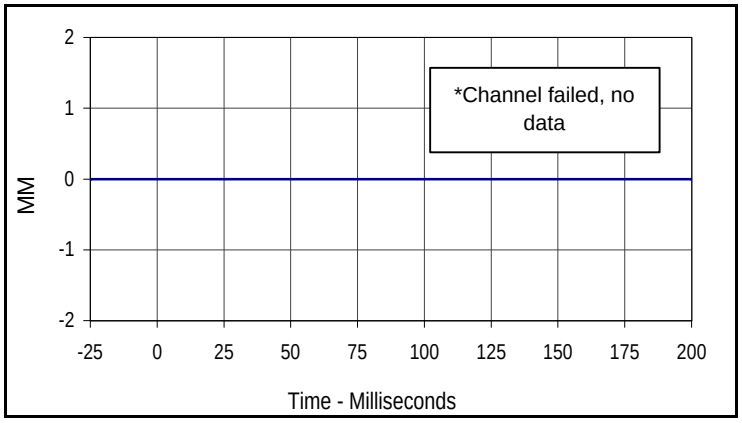
Curve Description			
Driver (50th) Chest Deflection			
CURNO	Type	SAE Class	Units
025	FIL	600	MM
Max	Time	Min	Time
0.2	23.8	-41.6	80.9



Curve Description			
Driver (50th) Left Femur Force			
CURNO	Type	SAE Class	Units
026	FIL	600	Newtons
Max	Time	Min	Time
200.7	158.3	-7662.0	53.2

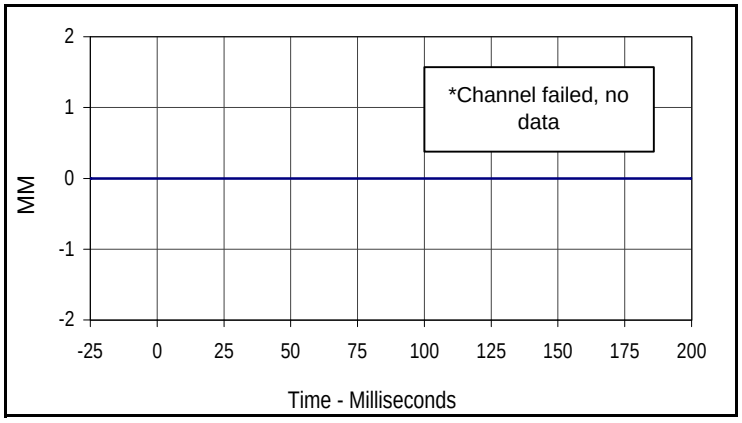


Curve Description			
Driver (50th) Right Femur Force			
CURNO	Type	SAE Class	Units
027	FIL	600	Newtons
Max	Time	Min	Time
155.6	199.3	-6578.2	62.3



Curve Description			
Driver (50th) Left Knee Displacement			
CURNO	Type	SAE Class	Units
028	FIL	180	MM
Max	Time	Min	Time
0.0	0.0	0.0	0.0

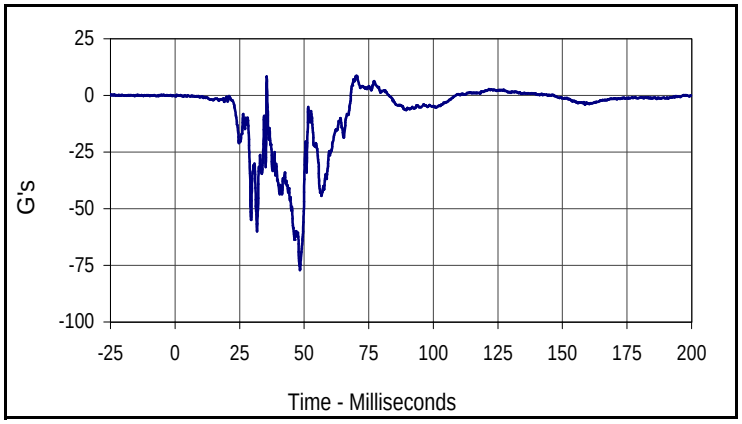
*Channel failed, no data



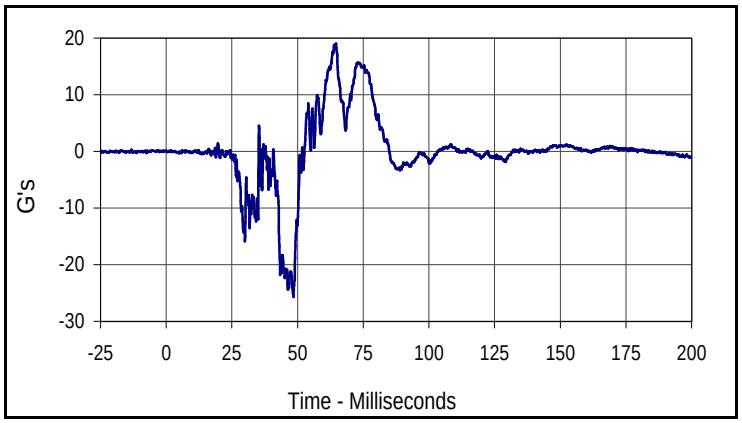
Curve Description			
Driver (50th) Right Knee Displacement			
CURNO	Type	SAE Class	Units
029	FIL	180	MM
Max	Time	Min	Time
0.0	0.0	0.0	0.0

*Channel failed, no data

Test Vehicle:	2004 Jeep Liberty 4-Door MPV	Test Date:	9/9/04
Test Program:	2004 FMVSS 208 Upgrade	NHTSA No.:	R40401

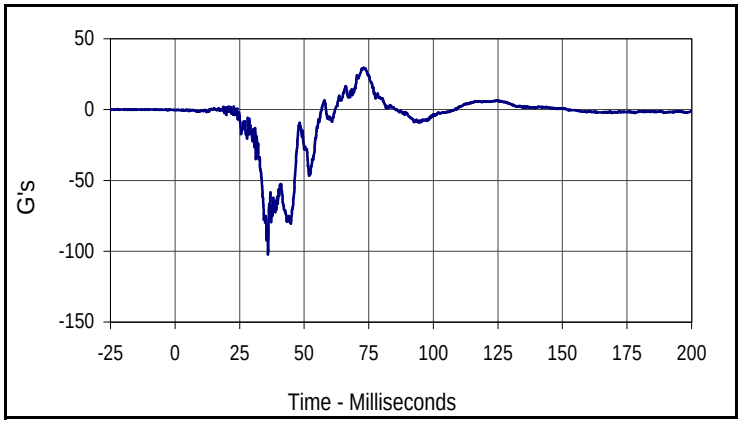


Curve Description			
Driver (50th) Left Tibia X			
CURNO	Type	SAE Class	Units
030	FIL	1000	G's
Max	Time	Min	Time
8.7	70.4	-77.1	48.4

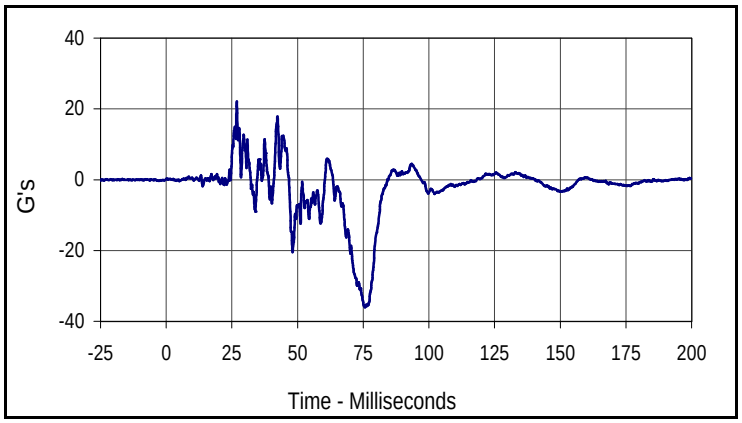


Curve Description			
Driver (50th) Left Tibia Y			
CURNO	Type	SAE Class	Units
031	FIL	1000	G's
Max	Time	Min	Time
19.1	64.6	-25.7	48.4

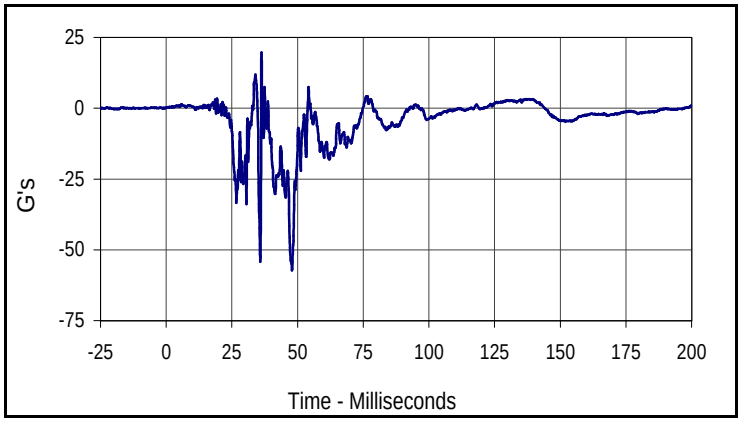
Test Vehicle:	2004 Jeep Liberty 4-Door MPV	Test Date:	9/9/04
Test Program:	2004 FMVSS 208 Upgrade	NHTSA No.:	R40401



Curve Description			
Driver (50th) Left Foot X			
CURNO	Type	SAE Class	Units
032	FIL	1000	G's
Max	Time	Min	Time
29.5	73.0	-102.2	36.0

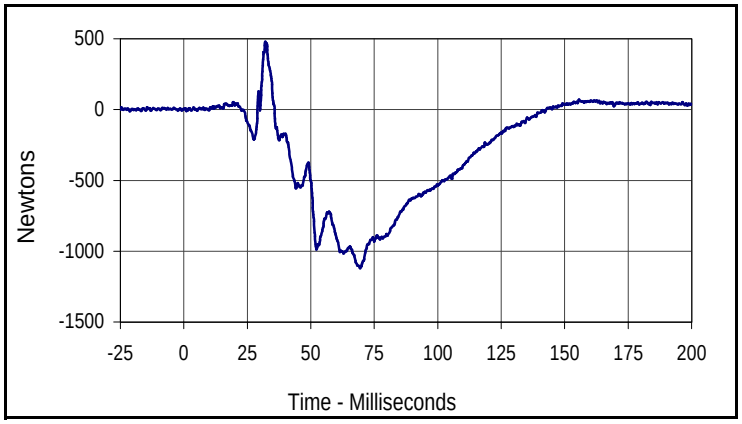


Curve Description			
Driver (50th) Left Foot Y			
CURNO	Type	SAE Class	Units
033	FIL	1000	G's
Max	Time	Min	Time
22.1	26.9	-36.0	75.6

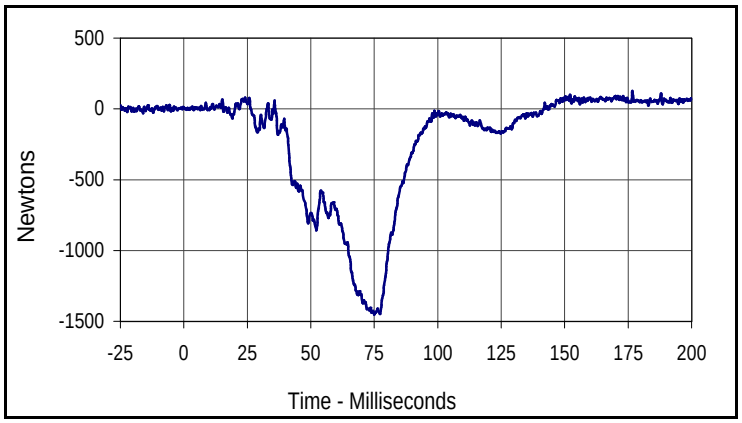


Curve Description			
Driver (50th) Left Foot Z			
CURNO	Type	SAE Class	Units
034	FIL	1000	G's
Max	Time	Min	Time
19.7	36.3	-57.3	47.9

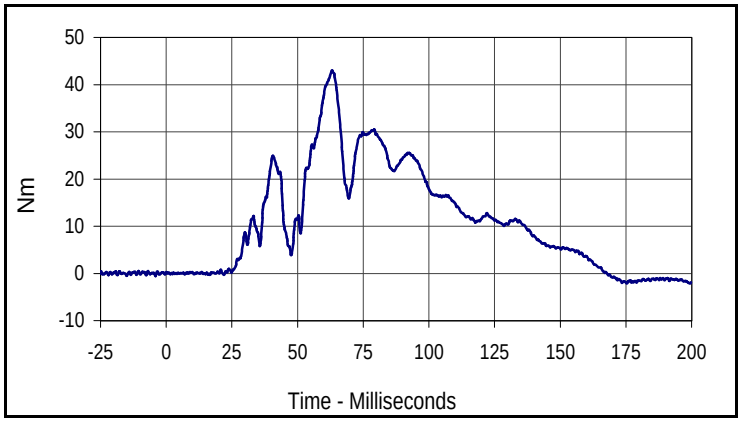
Test Vehicle:	2004 Jeep Liberty 4-Door MPV	Test Date:	9/9/04
Test Program:	2004 FMVSS 208 Upgrade	NHTSA No.:	R40401



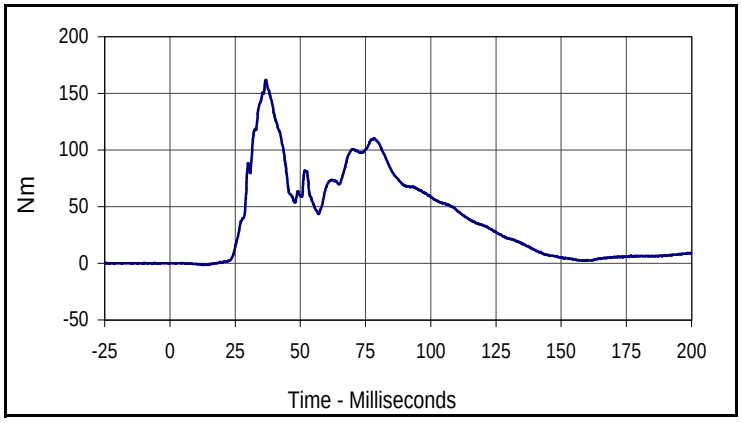
Curve Description			
Driver (50th) Left Upper Tibia Force X			
CURNO	Type	SAE Class	Units
035	FIL	600	Newtons
Max	Time	Min	Time
480.4	32.1	-1121.1	69.5



Curve Description			
Driver (50th) Left Upper Tibia Force Z			
CURNO	Type	SAE Class	Units
036	FIL	600	Newtons
Max	Time	Min	Time
126.8	176.7	-1453.0	75.0

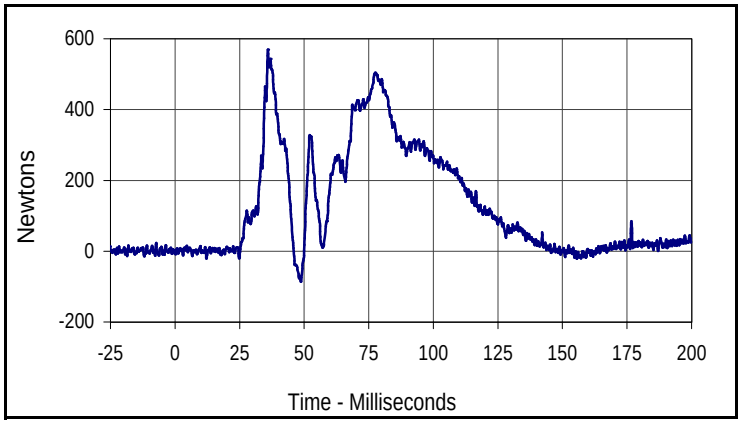


Curve Description			
Driver (50th) Left Upper Tibia Moment X			
CURNO	Type	SAE Class	Units
037	FIL	600	Nm
Max	Time	Min	Time
43.0	63.1	-2.1	199.4

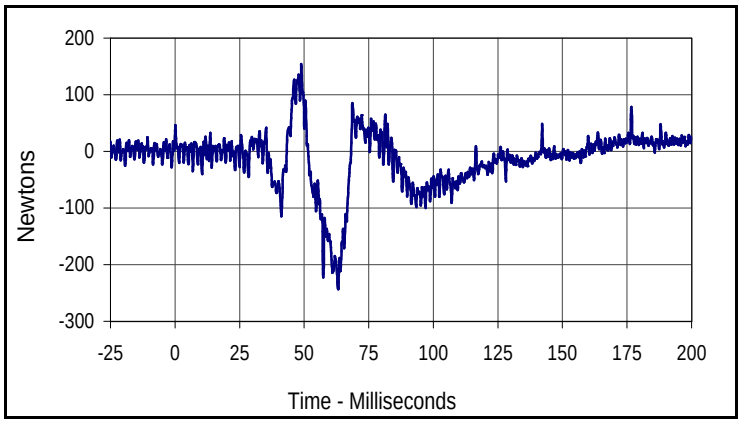


Curve Description			
Driver (50th) Left Upper Tibia Moment Y			
CURNO	Type	SAE Class	Units
038	FIL	600	Nm
Max	Time	Min	Time
161.7	36.8	-1.4	13.1

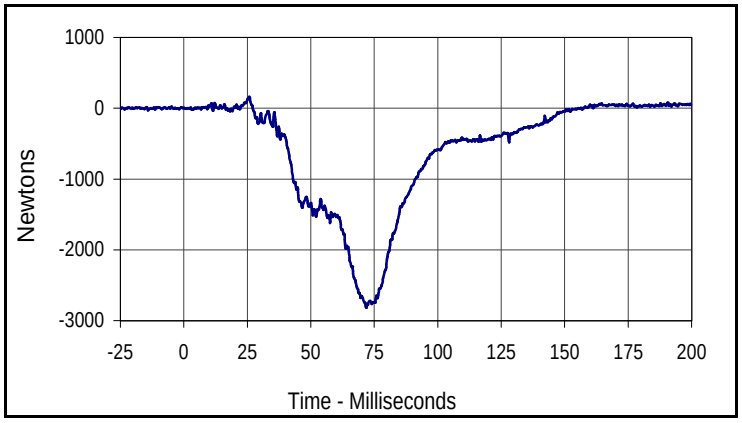
Test Vehicle:	2004 Jeep Liberty 4-Door MPV	Test Date:	9/9/04
Test Program:	2004 FMVSS 208 Upgrade	NHTSA No.:	R40401



Curve Description			
Driver (50th) Left Lower Tibia Force X			
CURNO	Type	SAE Class	Units
039	FIL	600	Newtons
Max	Time	Min	Time
569.6	35.9	-86.3	48.7

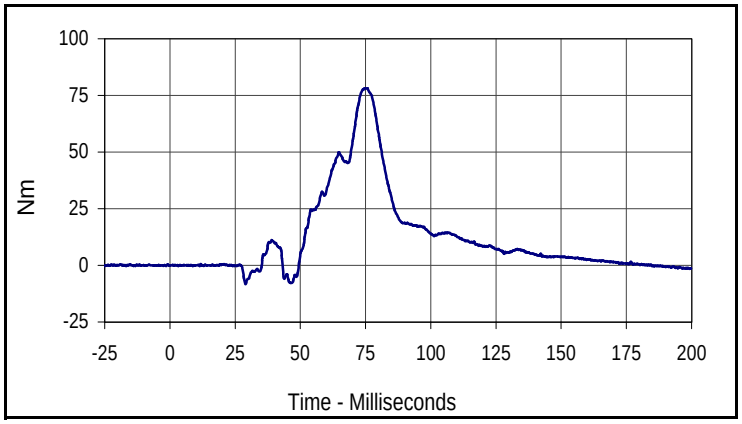


Curve Description			
Driver (50th) Left Lower Tibia Force Y			
CURNO	Type	SAE Class	Units
040	FIL	600	Newtons
Max	Time	Min	Time
154.2	48.9	-243.3	63.2

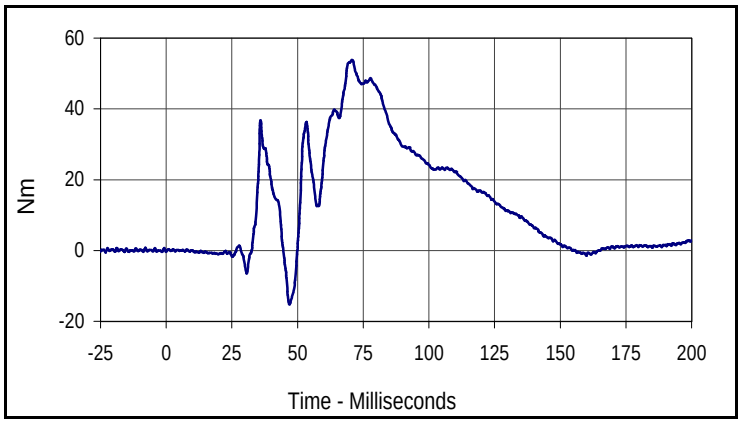


Curve Description			
Driver (50th) Left Lower Tibia Force Z			
CURNO	Type	SAE Class	Units
041	FIL	600	Newtons
Max	Time	Min	Time
165.3	25.8	-2820.7	71.8

Test Vehicle:	2004 Jeep Liberty 4-Door MPV	Test Date:	9/9/04
Test Program:	2004 FMVSS 208 Upgrade	NHTSA No.:	R40401

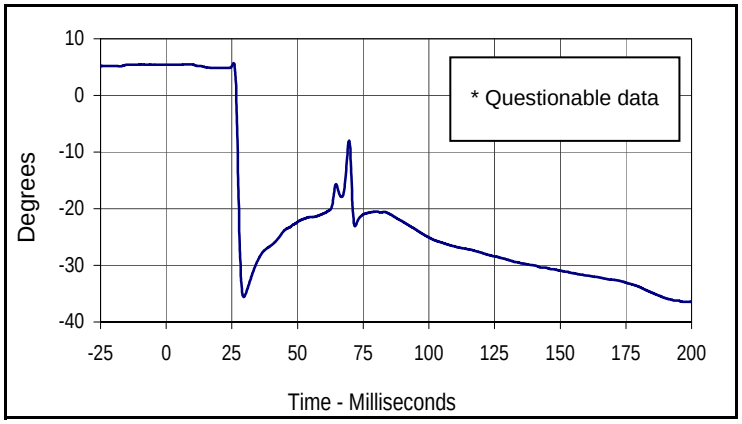


Curve Description			
Driver (50th) Left Lower Tibia Moment X			
CURNO	Type	SAE Class	Units
042	FIL	600	Nm
Max	Time	Min	Time
78.2	75.7	-8.3	29.0



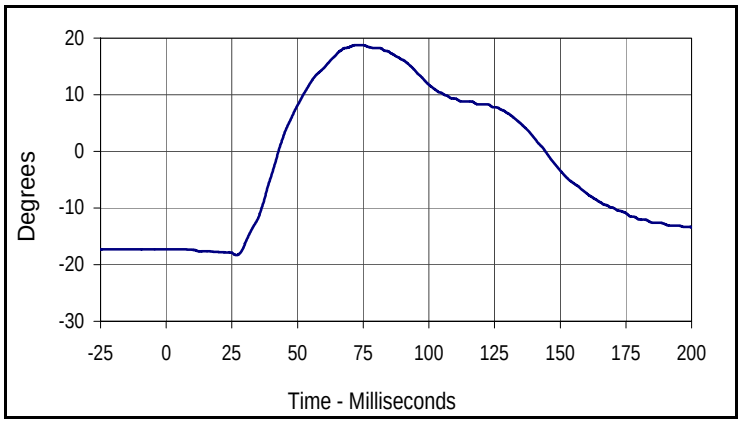
Curve Description			
Driver (50th) Left Lower Tibia Moment Y			
CURNO	Type	SAE Class	Units
043	FIL	600	Nm
Max	Time	Min	Time
53.9	70.7	-15.2	46.9

Test Vehicle:	2004 Jeep Liberty 4-Door MPV	Test Date:	9/9/04
Test Program:	2004 FMVSS 208 Upgrade	NHTSA No.:	R40401

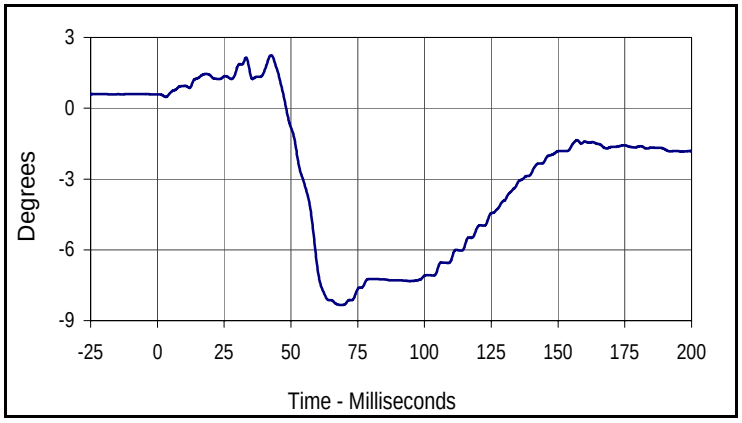


Curve Description			
Driver (50th) Left Ankle Rotation X			
CURNO	Type	SAE Class	Units
044	FIL	180	Degrees
Max	Time	Min	Time
5.7	25.7	-36.5	197.6

* Questionable data

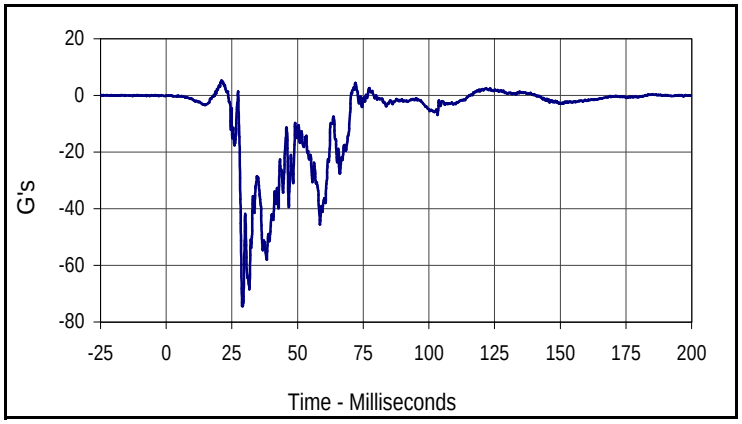


Curve Description			
Driver (50th) Left Ankle Rotation Y			
CURNO	Type	SAE Class	Units
045	FIL	180	Degrees
Max	Time	Min	Time
18.8	74.5	-18.3	26.7

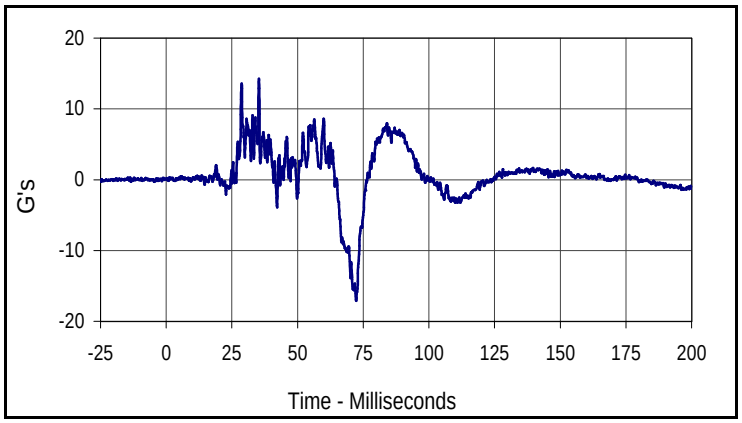


Curve Description			
Driver (50th) Left Ankle Rotation Z			
CURNO	Type	SAE Class	Units
046	FIL	180	Degrees
Max	Time	Min	Time
2.2	42.5	-8.3	69.0

Test Vehicle:	2004 Jeep Liberty 4-Door MPV	Test Date:	9/9/04
Test Program:	2004 FMVSS 208 Upgrade	NHTSA No.:	R40401

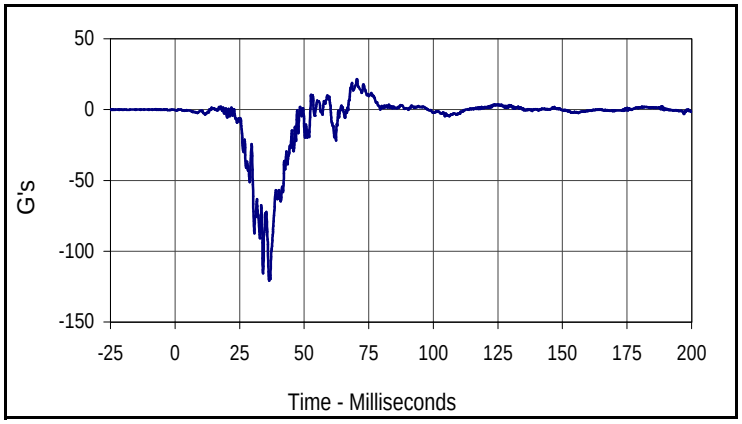


Curve Description			
Driver (50th) Right Tibia X			
CURNO	Type	SAE Class	Units
047	FIL	1000	G's
Max	Time	Min	Time
5.4	21.1	-74.4	29.1

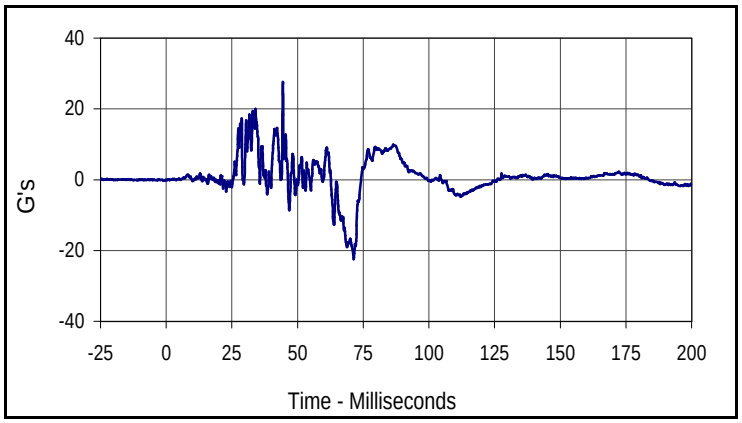


Curve Description			
Driver (50th) Right Tibia Y			
CURNO	Type	SAE Class	Units
048	FIL	1000	G's
Max	Time	Min	Time
14.3	35.3	-17.1	72.3

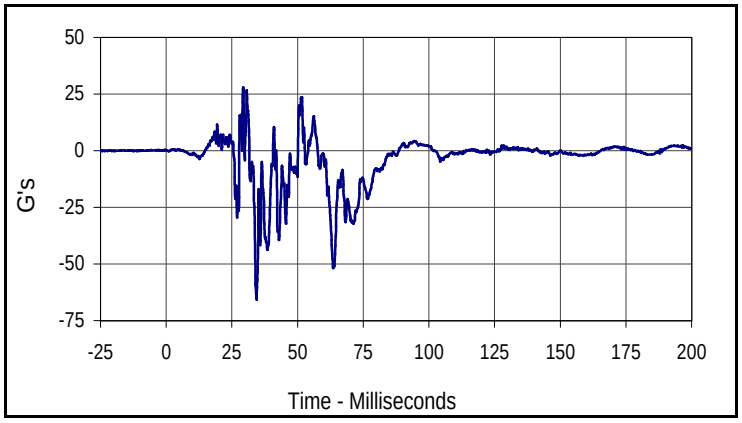
Test Vehicle:	2004 Jeep Liberty 4-Door MPV	Test Date:	9/9/04
Test Program:	2004 FMVSS 208 Upgrade	NHTSA No.:	R40401



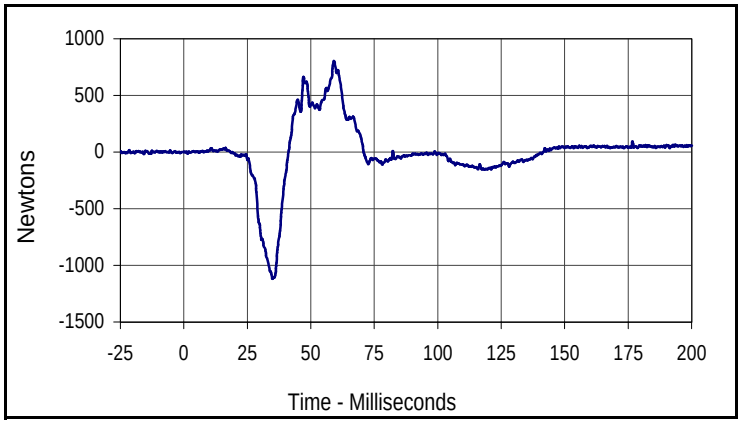
Curve Description			
Driver (50th) Right Foot X			
CURNO	Type	SAE Class	Units
049	FIL	1000	G's
Max	Time	Min	Time
21.4	70.4	-120.8	36.4



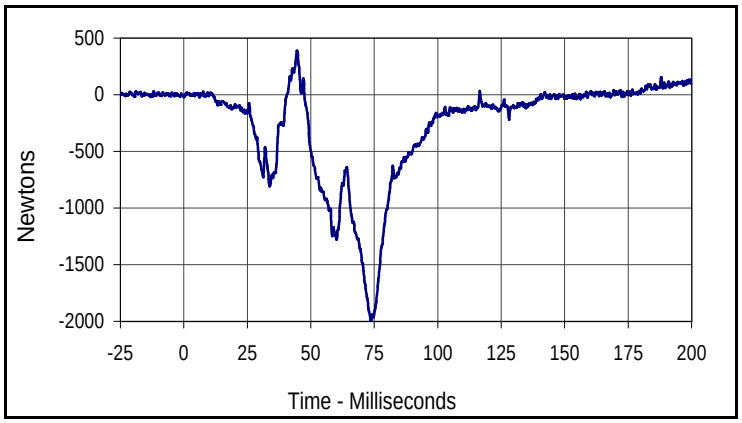
Curve Description			
Driver (50th) Right Foot Y			
CURNO	Type	SAE Class	Units
050	FIL	1000	G's
Max	Time	Min	Time
27.5	44.4	-22.5	71.4



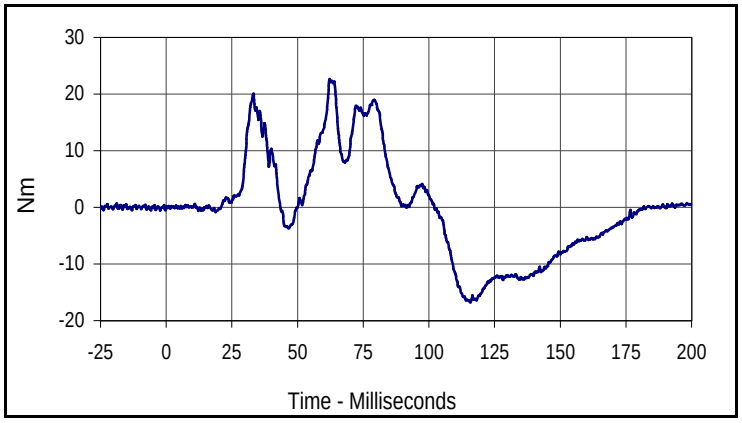
Curve Description			
Driver (50th) Right Foot Z			
CURNO	Type	SAE Class	Units
051	FIL	1000	G's
Max	Time	Min	Time
27.9	29.3	-65.8	34.4



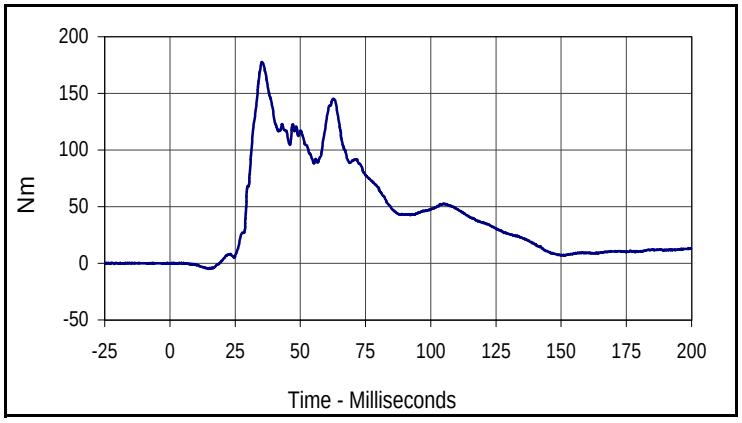
Curve Description			
Driver (50th) Right Upper Tibia Force X			
CURNO	Type	SAE Class	Units
052	FIL	600	Newtons
Max	Time	Min	Time
804.1	59.1	-1117.7	34.9



Curve Description			
Driver (50th) Right Upper Tibia Force Z			
CURNO	Type	SAE Class	Units
053	FIL	600	Newtons
Max	Time	Min	Time
388.5	44.6	-1992.8	73.7

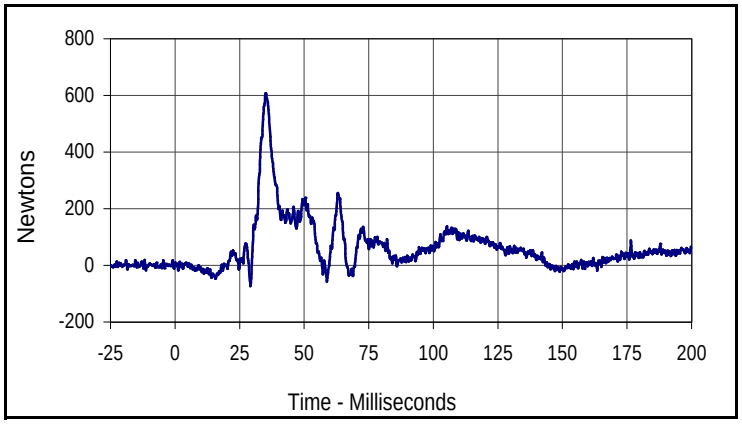


Curve Description			
Driver (50th) Right Upper Tibia Moment X			
CURNO	Type	SAE Class	Units
054	FIL	600	Nm
Max	Time	Min	Time
22.6	62.2	-16.8	115.7

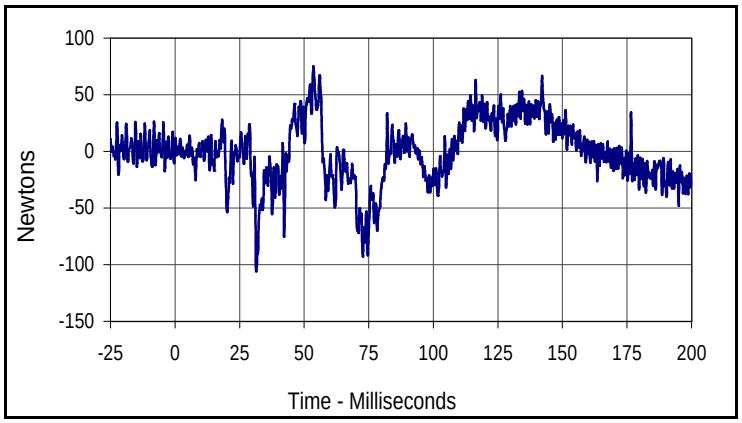


Curve Description			
Driver (50th) Right Upper Tibia Moment Y			
CURNO	Type	SAE Class	Units
055	FIL	600	Nm
Max	Time	Min	Time
177.6	35.3	-4.7	14.7

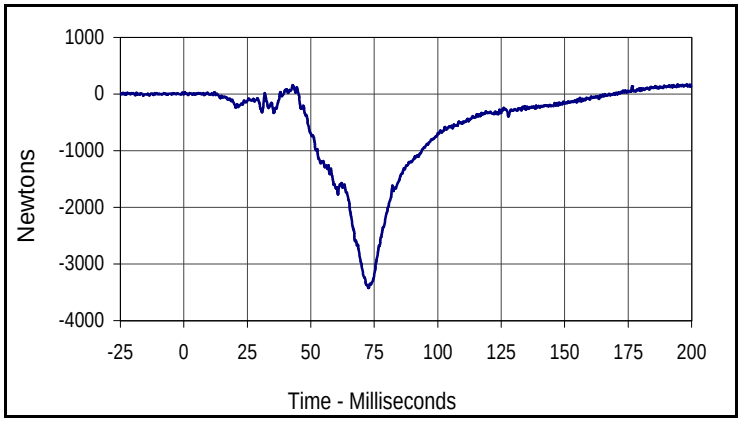
Test Vehicle:	2004 Jeep Liberty 4-Door MPV	Test Date:	9/9/04
Test Program:	2004 FMVSS 208 Upgrade	NHTSA No.:	R40401



Curve Description			
Driver (50th) Right Lower Tibia Force X			
CURNO	Type	SAE Class	Units
056	FIL	600	Newtons
Max	Time	Min	Time
608.2	35.1	-73.3	29.2

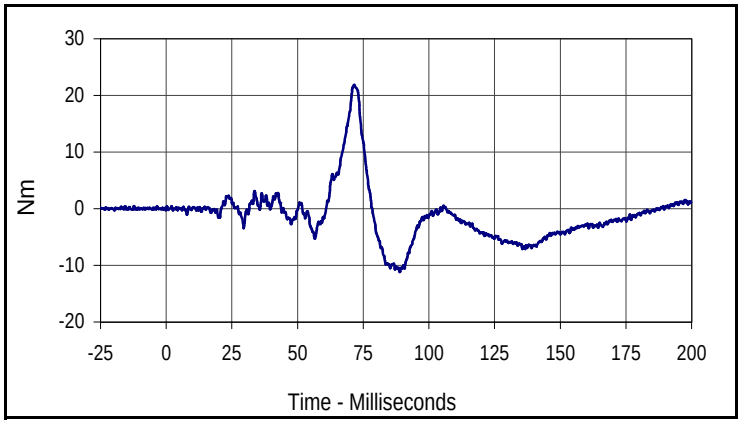


Curve Description			
Driver (50th) Right Lower Tibia Force Y			
CURNO	Type	SAE Class	Units
057	FIL	600	Newtons
Max	Time	Min	Time
75.3	53.6	-106.0	31.5

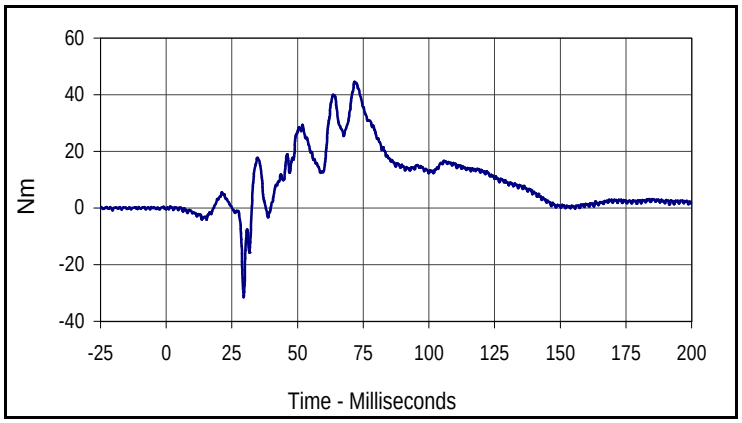


Curve Description			
Driver (50th) Right Lower Tibia Force Z			
CURNO	Type	SAE Class	Units
058	FIL	600	Newtons
Max	Time	Min	Time
168.9	194.6	-3421.8	72.7

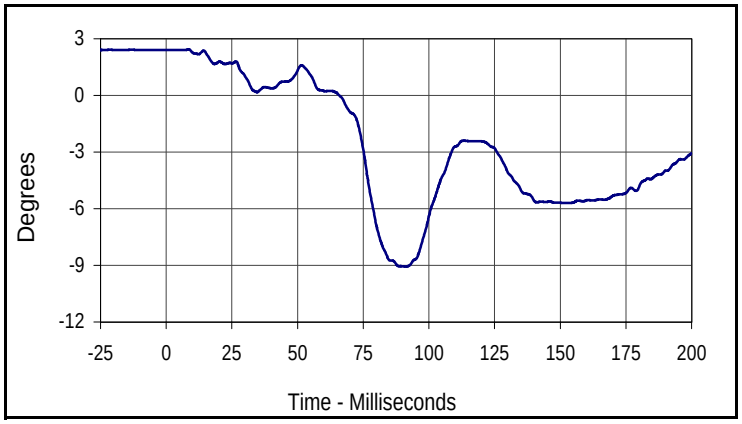
Test Vehicle:	2004 Jeep Liberty 4-Door MPV	Test Date:	9/9/04
Test Program:	2004 FMVSS 208 Upgrade	NHTSA No.:	R40401



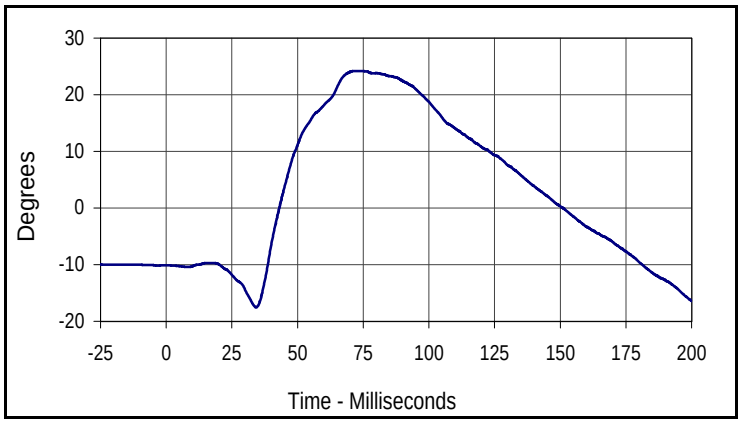
Curve Description			
Driver (50th) Right Lower Tibia Moment X			
CURNO	Type	SAE Class	Units
059	FIL	600	Nm
Max	Time	Min	Time
21.8	71.6	-11.2	88.9



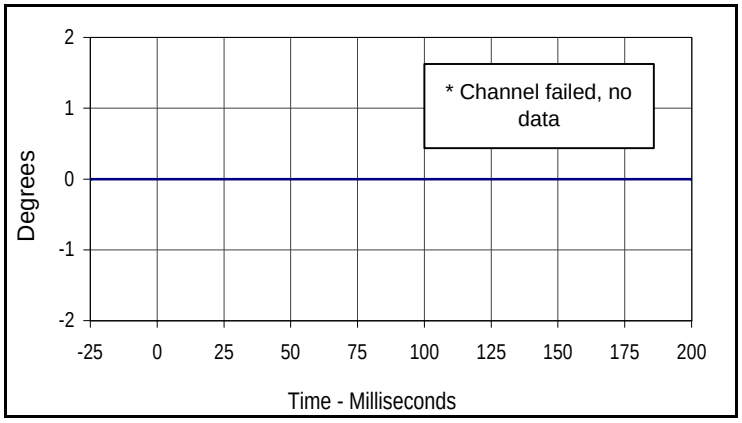
Curve Description			
Driver (50th) Right Lower Tibia Moment Y			
CURNO	Type	SAE Class	Units
060	FIL	600	Nm
Max	Time	Min	Time
44.7	71.7	-31.6	29.5



Curve Description			
Driver (50th) Right Ankle Rotation X			
CURNO	Type	SAE Class	Units
061	FIL	180	Degrees
Max	Time	Min	Time
2.4	8.6	-9.1	91.1



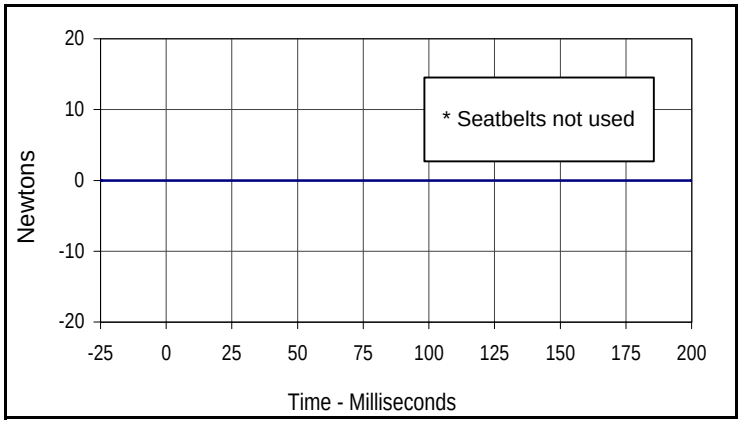
Curve Description			
Driver (50th) Right Ankle Rotation Y			
CURNO	Type	SAE Class	Units
062	FIL	180	Degrees
Max	Time	Min	Time
24.2	73.9	-17.5	34.2



Curve Description			
Driver (50th) Right Ankle Rotation Z			
CURNO	Type	SAE Class	Units
063	FIL	180	Degrees
Max	Time	Min	Time
0.0	0.0	0.0	0.0

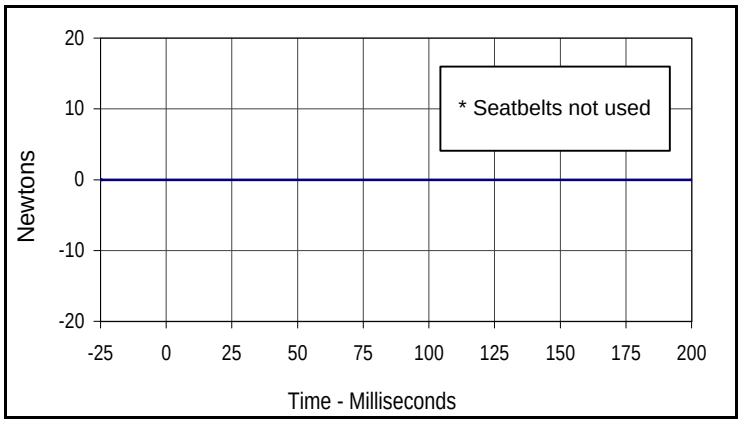
* Channel failed, no data

Test Vehicle:	2004 Jeep Liberty 4-Door MPV	Test Date:	9/9/04
Test Program:	2004 FMVSS 208 Upgrade	NHTSA No.:	R40401



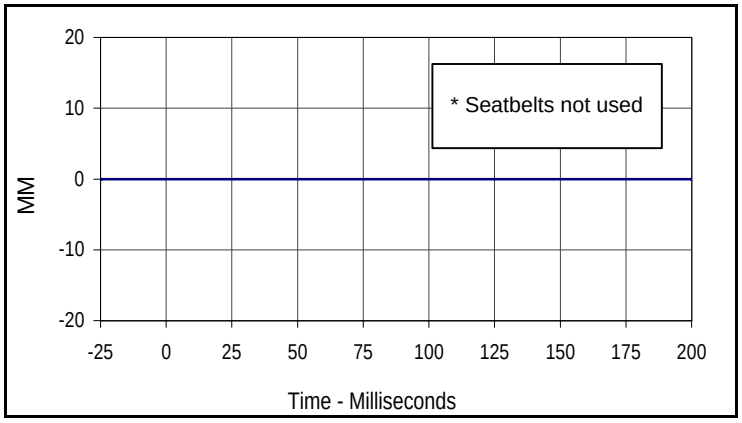
Curve Description			
Driver (50th) Lap Belt Force			
CURNO	Type	SAE Class	Units
064	FIL	60	Newtons
Max	Time	Min	Time
0.0	0.0	0.0	0.0

* Seatbelts not used



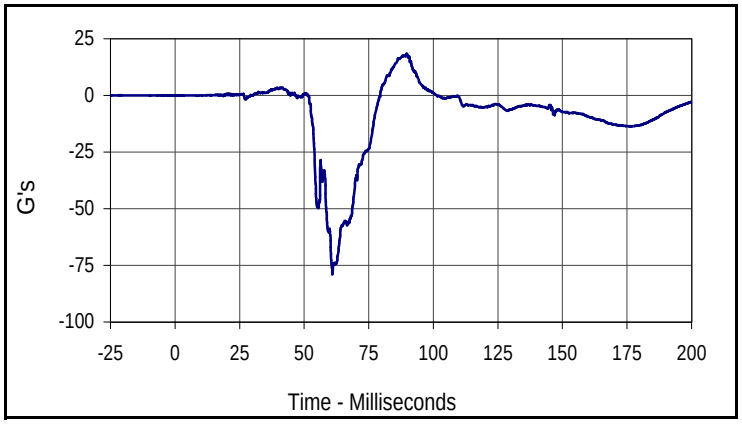
Curve Description			
Driver (50th) Shoulder Belt Force			
CURNO	Type	SAE Class	Units
065	FIL	60	Newtons
Max	Time	Min	Time
0.0	0.0	0.0	0.0

* Seatbelts not used

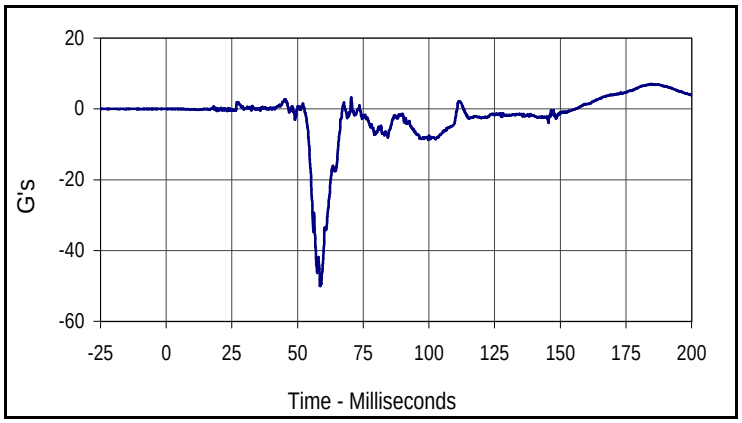


Curve Description			
Driver (50th) Shoulder Belt Pullout			
CURNO	Type	SAE Class	Units
066	FIL	60	MM
Max	Time	Min	Time
0.0	0.0	0.0	0.0

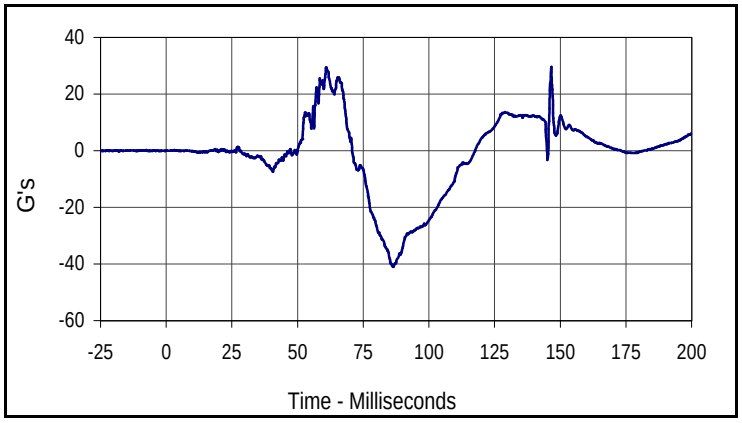
* Seatbelts not used



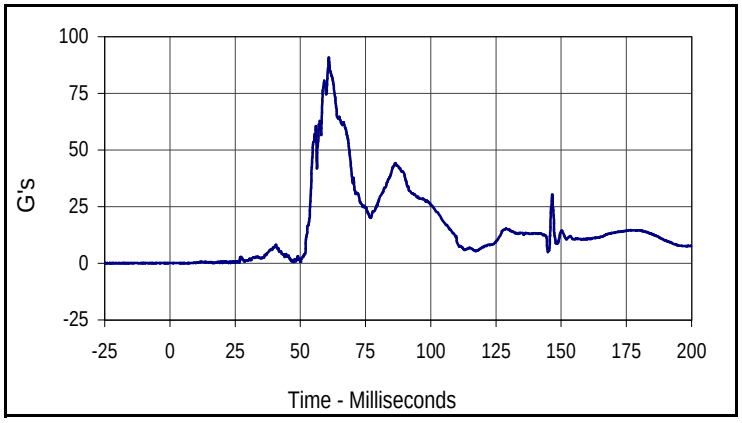
Curve Description			
Passenger (50th) Head Primary X			
CURNO	Type	SAE Class	Units
067	FIL	1000	G's
Max	Time	Min	Time
18.4	89.7	-79.0	60.9



Curve Description			
Passenger (50th) Head Primary Y			
CURNO	Type	SAE Class	Units
068	FIL	1000	G's
Max	Time	Min	Time
7.0	184.6	-50.0	58.7

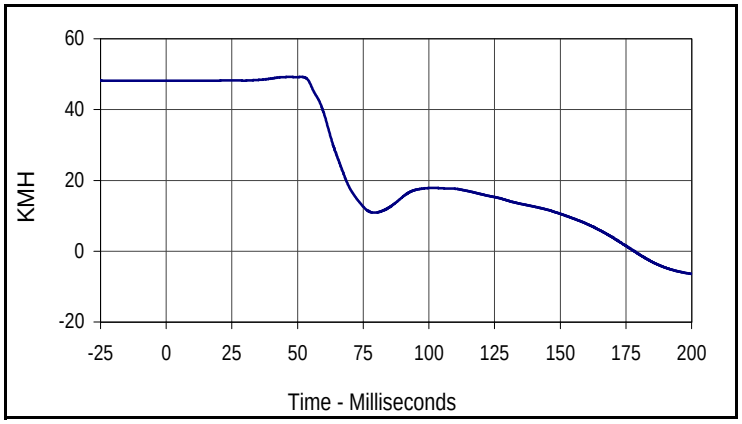


Curve Description			
Passenger (50th) Head Primary Z			
CURNO	Type	SAE Class	Units
069	FIL	1000	G's
Max	Time	Min	Time
29.5	146.6	-41.0	86.5

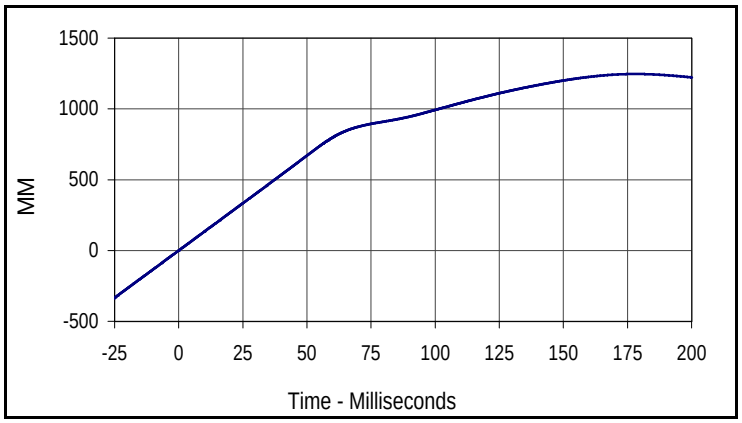


Curve Description			
Passenger (50th) Head Resultant Primary			
CURNO	Type	SAE Class	Units
067	RES	1000	G's
Max	Time	Min	Time
90.8	60.9	0.0	6.5

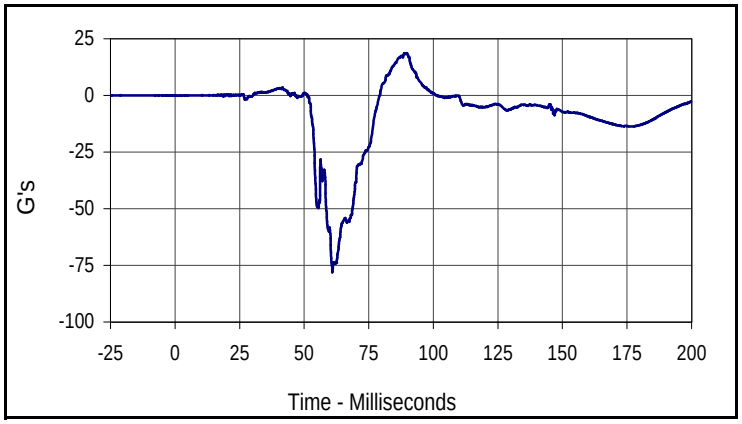
Test Vehicle:	2004 Jeep Liberty 4-Door MPV	Test Date:	9/9/04
Test Program:	2004 FMVSS 208 Upgrade	NHTSA No.:	R40401



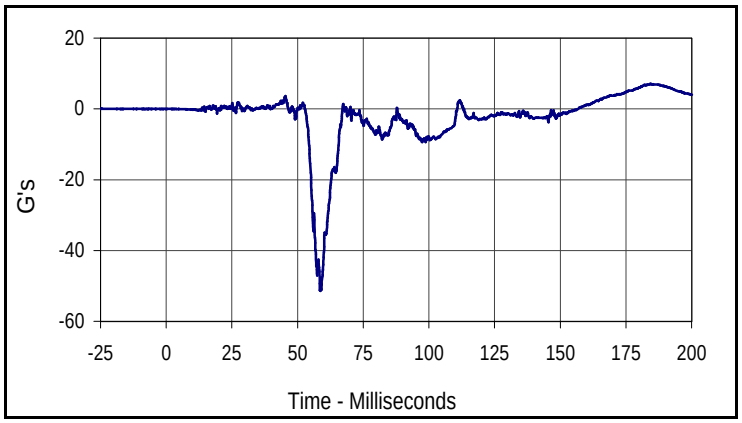
Curve Description			
Passenger (50th) Head Primary X Velocity			
CURNO	Type	SAE Class	Units
067	IN1	180	KMH
Max	Time	Min	Time
49.2	46.8	-6.4	200.0



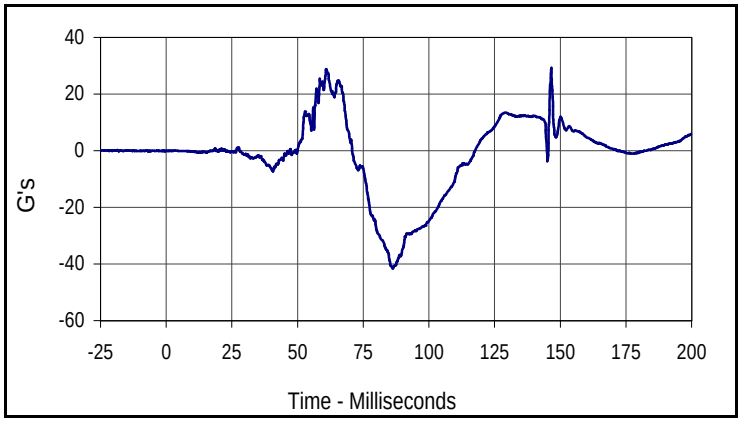
Curve Description			
Passenger (50th) Head Primary X Displacement			
CURNO	Type	SAE Class	Units
067	IN2	180	MM
Max	Time	Min	Time
1246.6	178.1	0.0	0.0



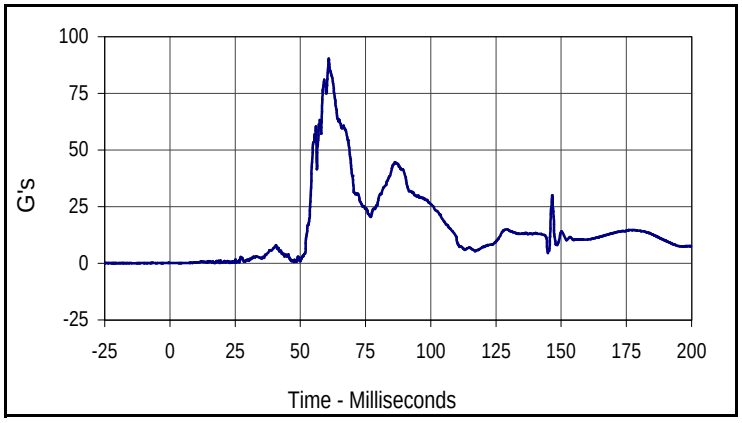
Curve Description			
Passenger (50th) NAAH CG X			
CURNO	Type	SAE Class	Units
070	FIL	1000	G's
Max	Time	Min	Time
18.7	89.7	-78.1	60.9



Curve Description			
Passenger (50th) NAAH CG Y			
CURNO	Type	SAE Class	Units
071	FIL	1000	G's
Max	Time	Min	Time
7.2	184.4	-51.4	58.7

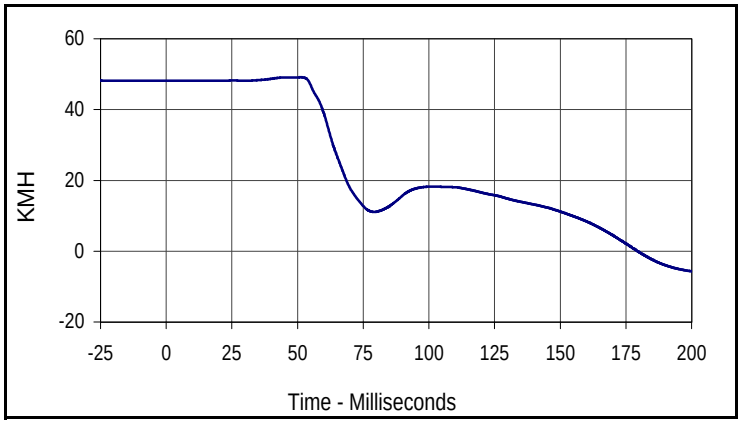


Curve Description			
Passenger (50th) NAAH CG Z			
CURNO	Type	SAE Class	Units
072	FIL	1000	G's
Max	Time	Min	Time
29.2	146.6	-41.5	86.2

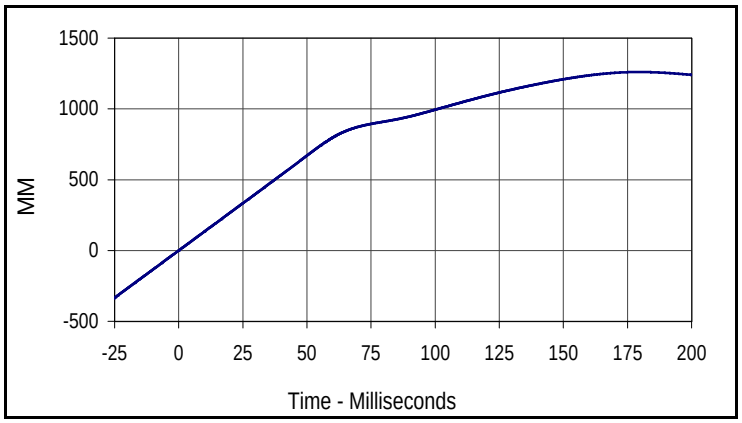


Curve Description			
Passenger (50th) NAAH CG Resultant			
CURNO	Type	SAE Class	Units
070	RES	1000	G's
Max	Time	Min	Time
90.3	60.9	0.0	3.6

Test Vehicle:	2004 Jeep Liberty 4-Door MPV	Test Date:	9/9/04
Test Program:	2004 FMVSS 208 Upgrade	NHTSA No.:	R40401

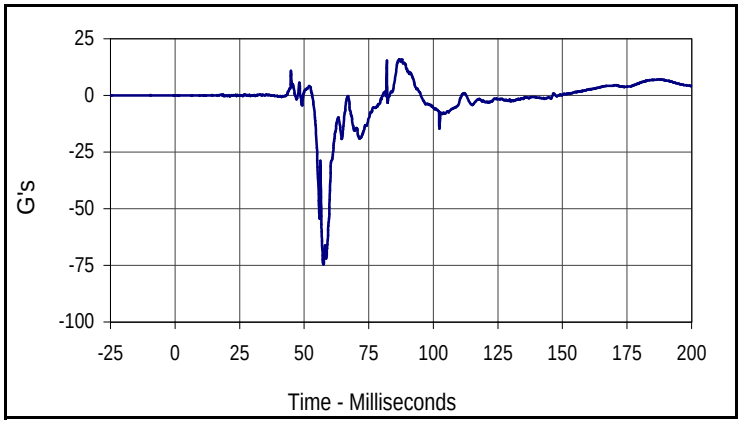


Curve Description			
Passenger (50th) NAAH CG X Velocity			
CURNO	Type	SAE Class	Units
070	IN1	180	KMH
Max	Time	Min	Time
49.1	51.3	-5.7	200.0

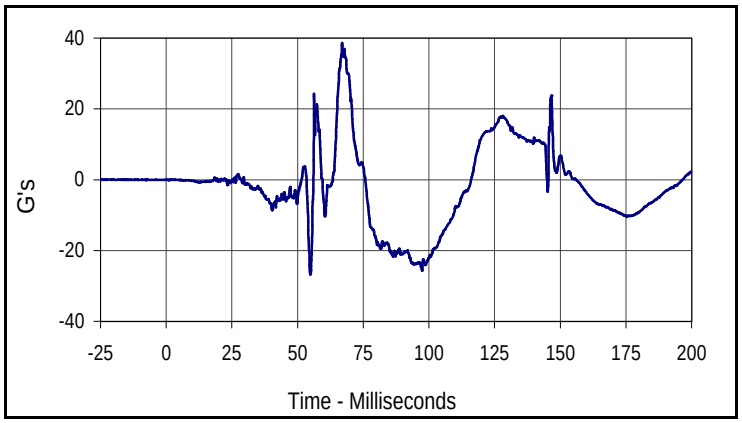


Curve Description			
Passenger (50th) NAAH CG X Displacement			
CURNO	Type	SAE Class	Units
070	IN2	180	MM
Max	Time	Min	Time
1260.7	179.4	0.1	0.0

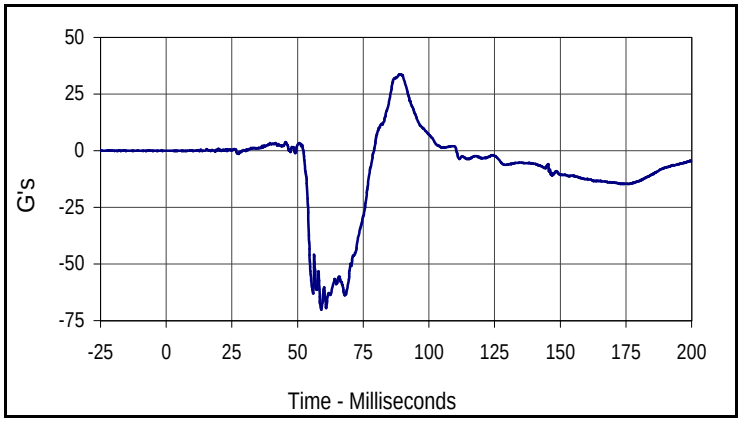
Test Vehicle:	2004 Jeep Liberty 4-Door MPV	Test Date:	9/9/04
Test Program:	2004 FMVSS 208 Upgrade	NHTSA No.:	R40401



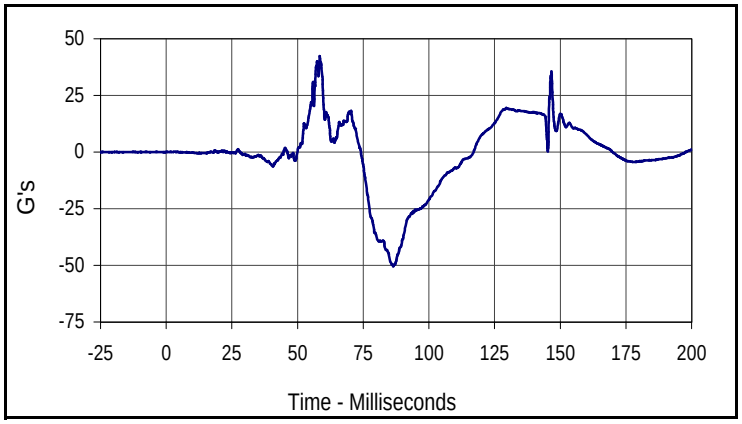
Curve Description			
Passenger (50th) NAAH Xarm-Y			
CURNO	Type	SAE Class	Units
073	FIL	1000	G's
Max	Time	Min	Time
15.9	86.9	-74.6	57.5



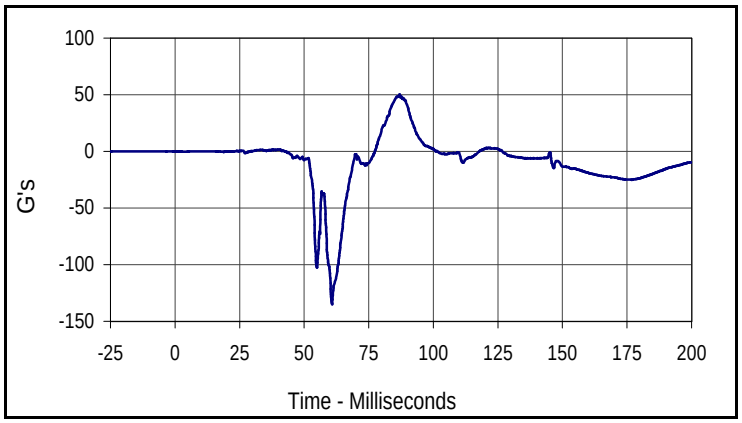
Curve Description			
Passenger (50th) NAAH Xarm-Z			
CURNO	Type	SAE Class	Units
074	FIL	1000	G's
Max	Time	Min	Time
38.7	67.0	-26.8	54.9



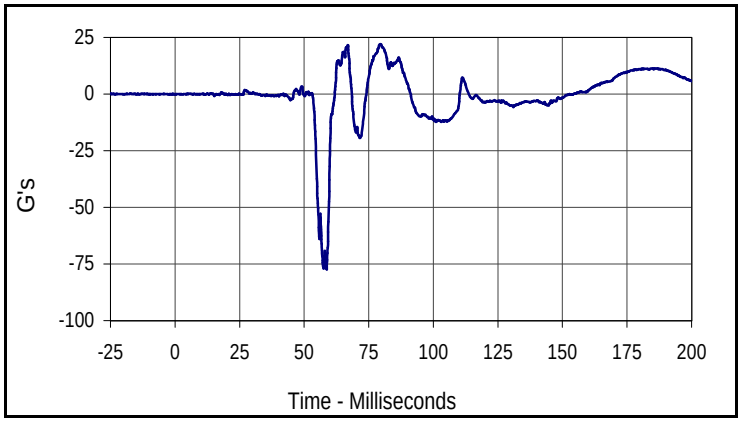
Curve Description			
Passenger (50th) NAAH Yarm-X			
CURNO	Type	SAE Class	Units
075	FIL	1000	G's
Max	Time	Min	Time
33.6	89.0	-70.3	59.0



Curve Description			
Passenger (50th) NAAH Yarm-Z			
CURNO	Type	SAE Class	Units
076	FIL	1000	G's
Max	Time	Min	Time
42.4	58.5	-50.4	86.5

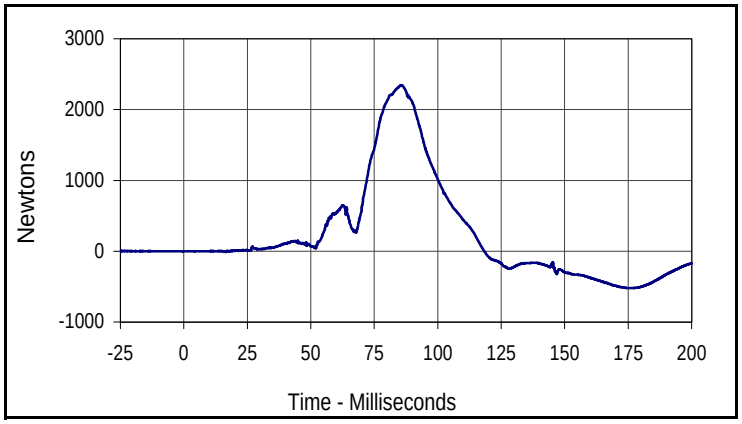


Curve Description			
Passenger (50th) NAAH Zarm-X			
CURNO	Type	SAE Class	Units
077	FIL	1000	G's
Max	Time	Min	Time
50.1	87.0	-135.0	60.8

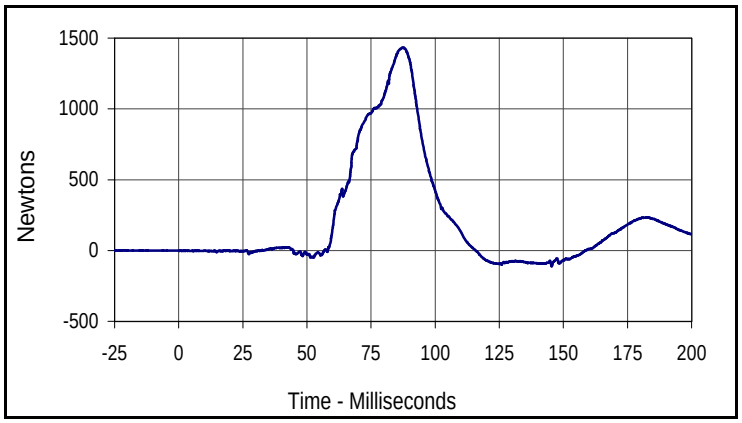


Curve Description			
Passenger (50th) NAAH Zarm-Y			
CURNO	Type	SAE Class	Units
078	FIL	1000	G's
Max	Time	Min	Time
22.0	79.3	-77.5	58.7

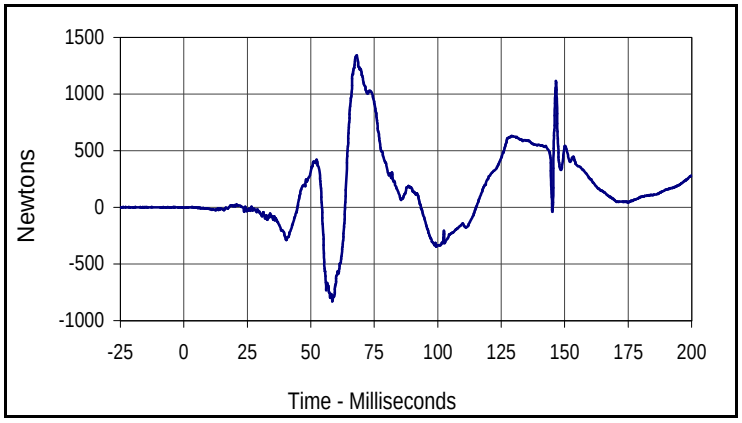
Test Vehicle:	2004 Jeep Liberty 4-Door MPV	Test Date:	9/9/04
Test Program:	2004 FMVSS 208 Upgrade	NHTSA No.:	R40401



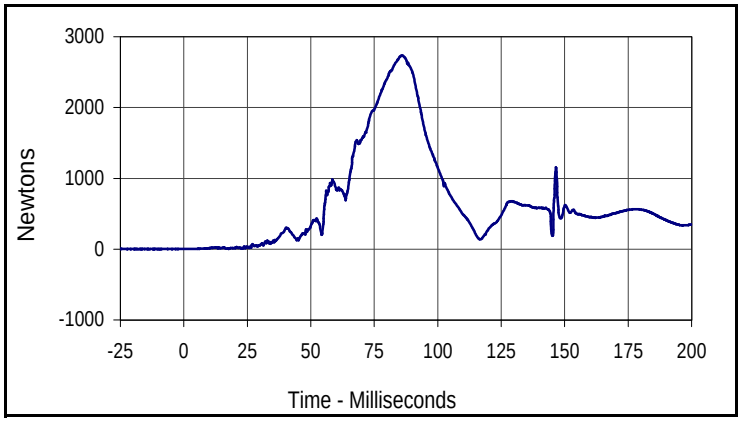
Curve Description			
Passenger (50th) Upper Neck Force X			
CURNO	Type	SAE Class	Units
079	FIL	1000	Newtons
Max	Time	Min	Time
2346.0	85.7	-522.8	175.0



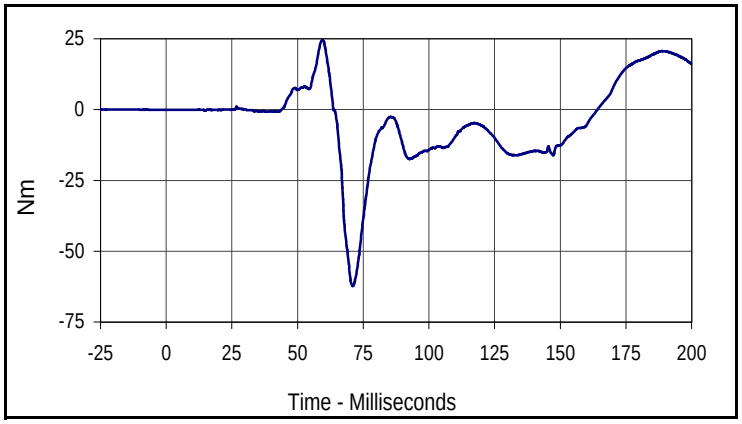
Curve Description			
Passenger (50th) Upper Neck Force Y			
CURNO	Type	SAE Class	Units
080	FIL	1000	Newtons
Max	Time	Min	Time
1434.8	87.3	-110.8	145.5



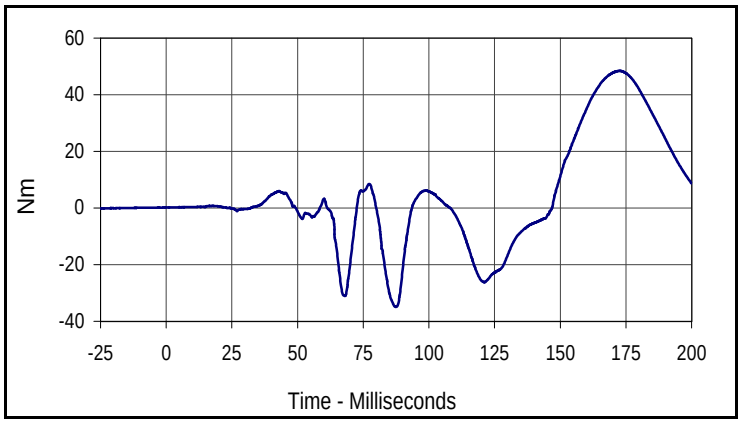
Curve Description			
Passenger (50th) Upper Neck Force Z			
CURNO	Type	SAE Class	Units
081	FIL	1000	Newtons
Max	Time	Min	Time
1342.5	68.0	-830.3	58.5



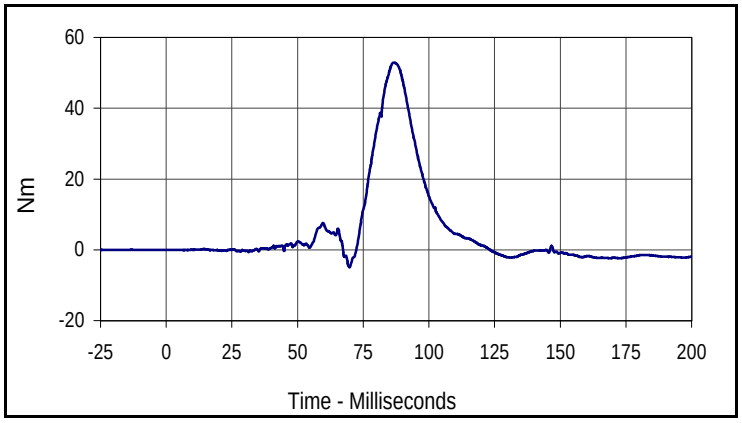
Curve Description			
Passenger (50th) Upper Neck Force Res.			
CURNO	Type	SAE Class	Units
079	RES	1000	Newtons
Max	Time	Min	Time
2739.0	86.0	2.2	6.1



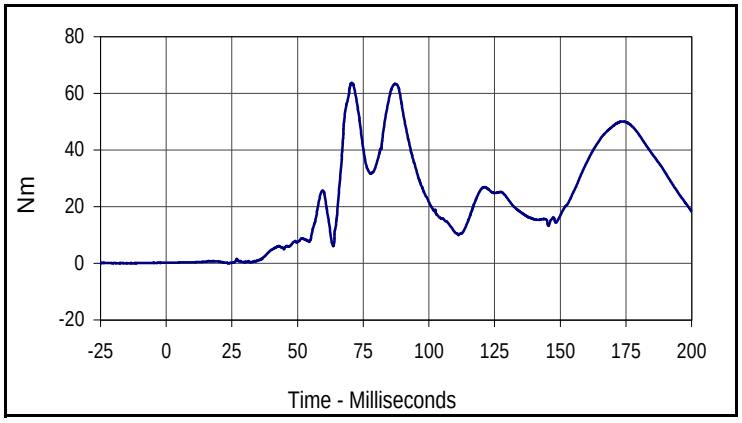
Curve Description			
Passenger (50th) Upper Neck Moment X			
CURNO	Type	SAE Class	Units
082	FIL	600	Nm
Max	Time	Min	Time
24.5	59.5	-62.4	71.0



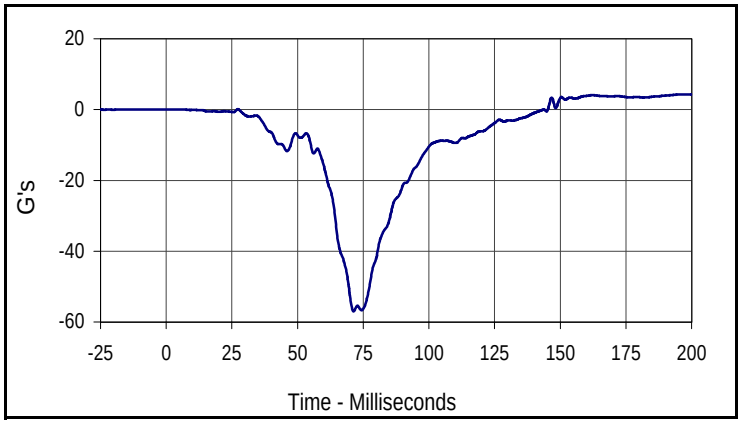
Curve Description			
Passenger (50th) Upper Neck Moment Y			
CURNO	Type	SAE Class	Units
083	FIL	600	Nm
Max	Time	Min	Time
48.4	172.7	-34.9	87.4



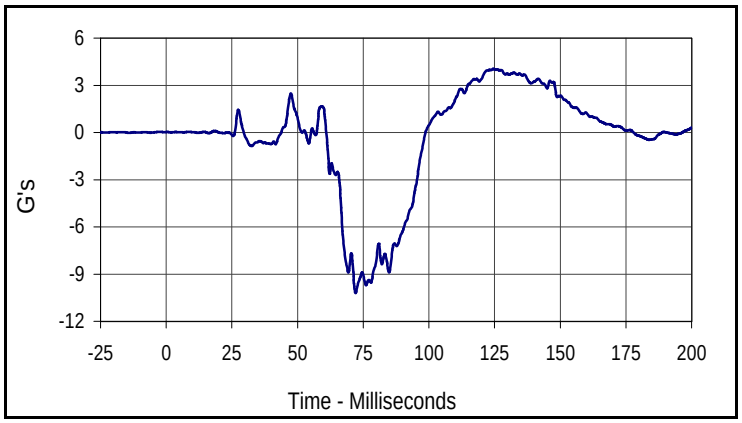
Curve Description			
Passenger (50th) Upper Neck Moment Z			
CURNO	Type	SAE Class	Units
084	FIL	600	Nm
Max	Time	Min	Time
52.9	86.4	-4.9	69.8



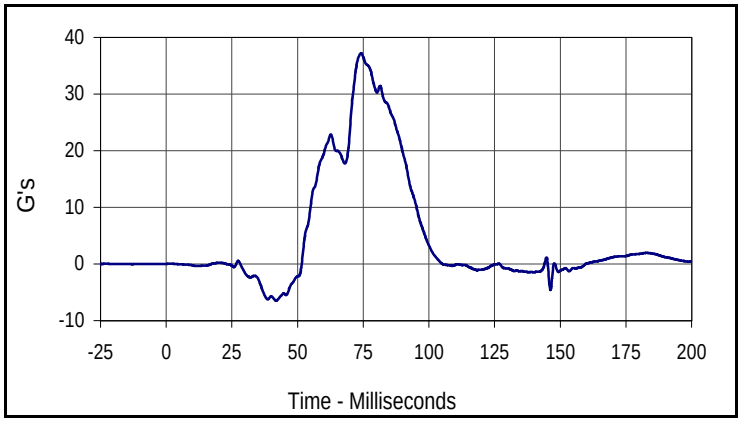
Curve Description			
Passenger (50th) Upper Neck Moment Res.			
CURNO	Type	SAE Class	Units
082	RES	600	Nm
Max	Time	Min	Time
63.7	70.7	0.0	23.9



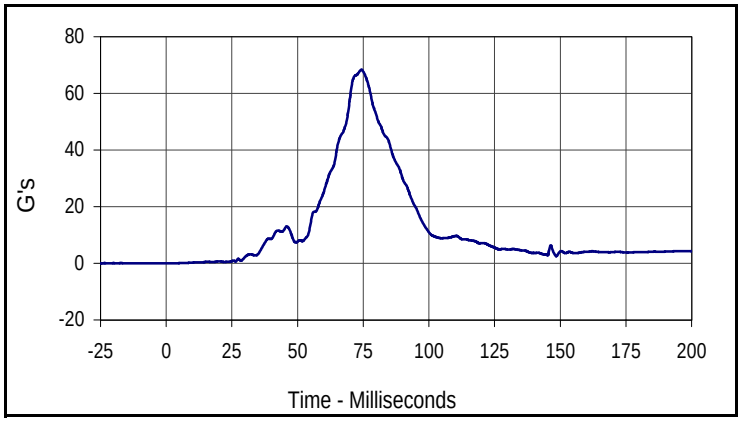
Curve Description			
Passenger (50th) Chest Primary X			
CURNO	Type	SAE Class	Units
085	FIL	180	G's
Max	Time	Min	Time
4.3	199.4	-57.0	71.3



Curve Description			
Passenger (50th) Chest Primary Y			
CURNO	Type	SAE Class	Units
086	FIL	180	G's
Max	Time	Min	Time
4.0	124.5	-10.2	72.1

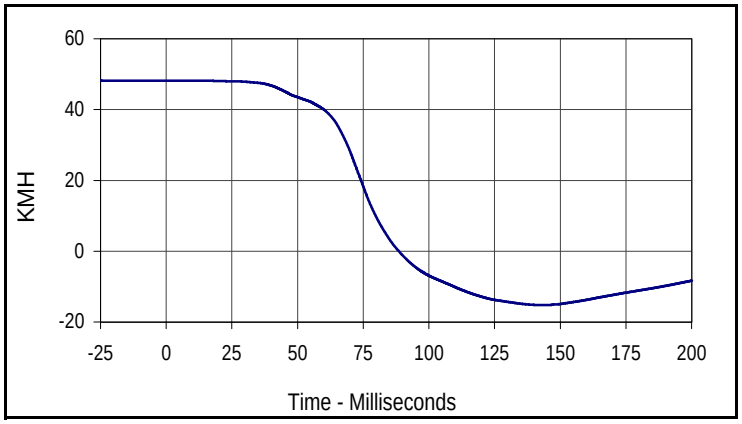


Curve Description			
Passenger (50th) Chest Primary Z			
CURNO	Type	SAE Class	Units
087	FIL	180	G's
Max	Time	Min	Time
37.2	74.2	-6.5	41.9

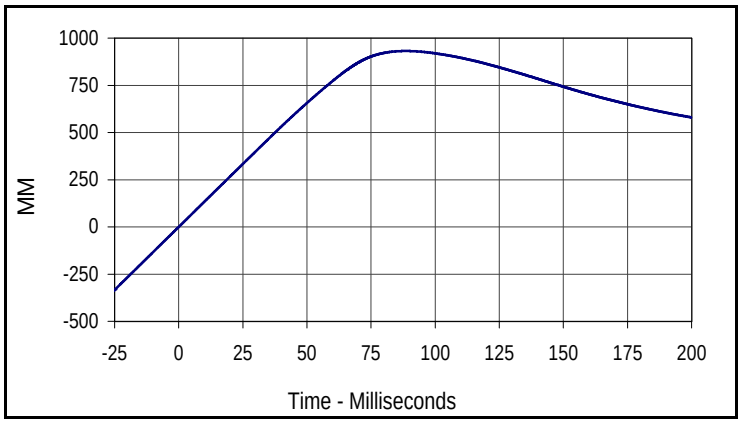


Curve Description			
Passenger (50th) Chest Resultant Primary			
CURNO	Type	SAE Class	Units
085	RES	180	G's
Max	Time	Min	Time
68.4	74.3	0.0	3.8

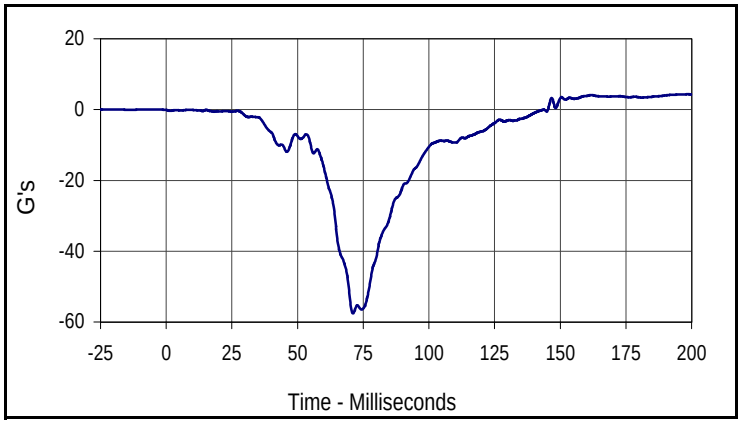
Test Vehicle:	2004 Jeep Liberty 4-Door MPV	Test Date:	9/9/04
Test Program:	2004 FMVSS 208 Upgrade	NHTSA No.:	R40401



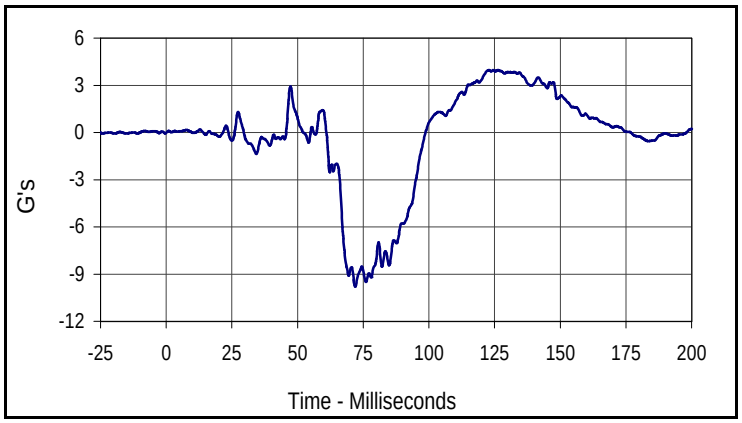
Curve Description			
Passenger (50th) Chest Primary X Velocity			
CURNO	Type	SAE Class	Units
085	IN1	180	KMH
Max	Time	Min	Time
48.2	7.2	-15.2	145.3



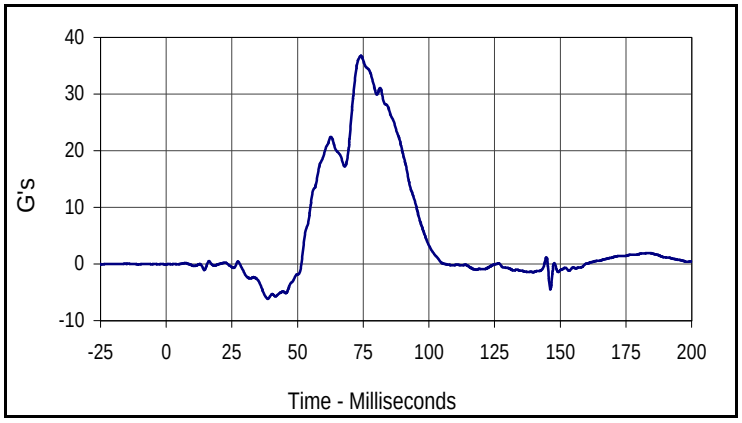
Curve Description			
Passenger (50th) Chest Primary X Displacement			
CURNO	Type	SAE Class	Units
085	IN2	180	MM
Max	Time	Min	Time
931.7	88.5	0.0	0.0



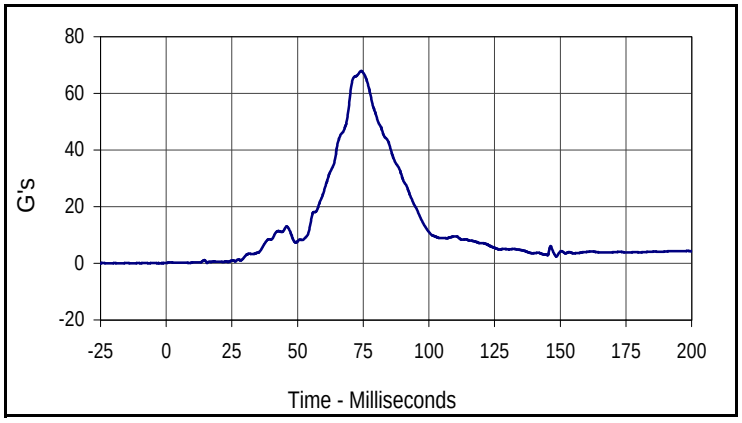
Curve Description			
Passenger (50th) Chest Redundant X			
CURNO	Type	SAE Class	Units
088	FIL	180	G's
Max	Time	Min	Time
4.3	198.5	-57.6	71.1



Curve Description			
Passenger (50th) Chest Redundant Y			
CURNO	Type	SAE Class	Units
089	FIL	180	G's
Max	Time	Min	Time
4.0	126.2	-9.8	71.9

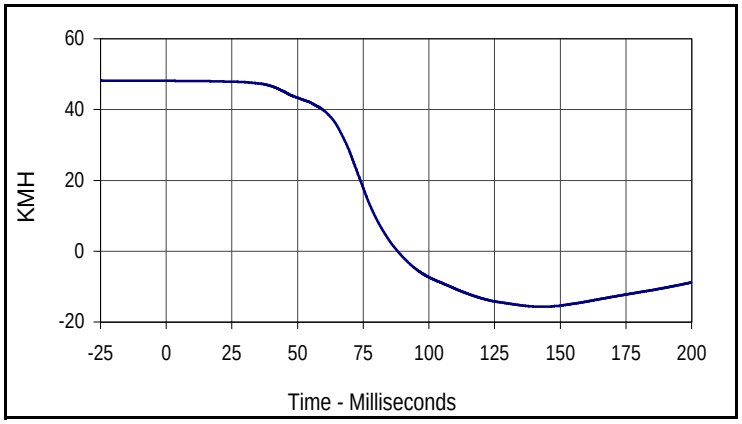


Curve Description			
Passenger (50th) Chest Redundant Z			
CURNO	Type	SAE Class	Units
090	FIL	180	G's
Max	Time	Min	Time
36.8	74.1	-6.1	38.7

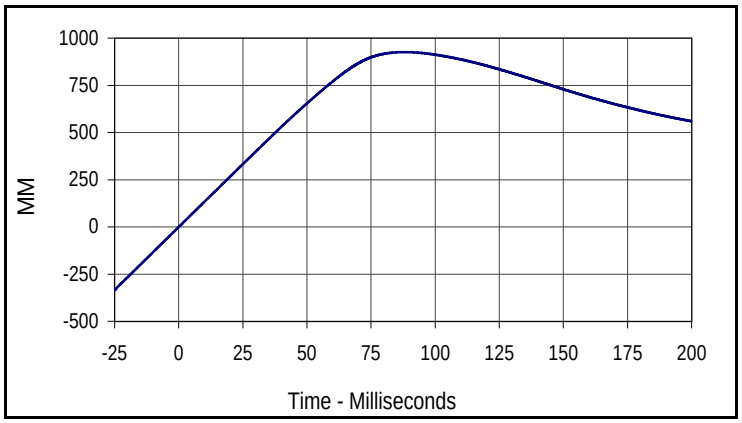


Curve Description			
Passenger (50th) Chest Resultant Redundant			
CURNO	Type	SAE Class	Units
088	RES	180	G's
Max	Time	Min	Time
67.9	74.2	0.1	8.8

Test Vehicle:	2004 Jeep Liberty 4-Door MPV	Test Date:	9/9/04
Test Program:	2004 FMVSS 208 Upgrade	NHTSA No.:	R40401

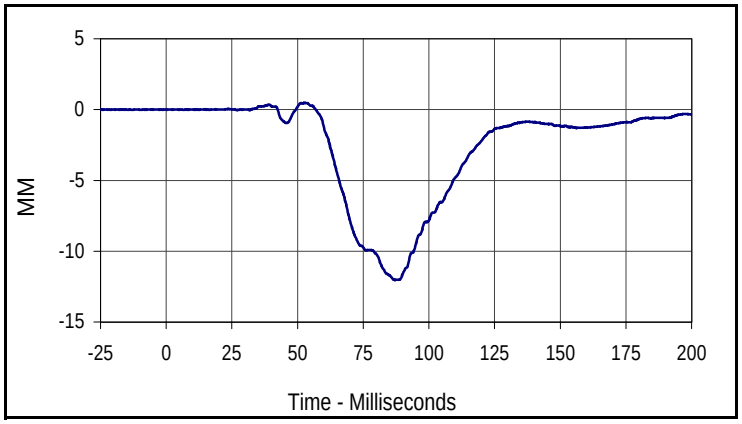


Curve Description			
Passenger (50th) Chest Redundant X Velocity			
CURNO	Type	SAE Class	Units
088	IN1	180	KMH
Max	Time	Min	Time
48.1	0.0	-15.7	145.3

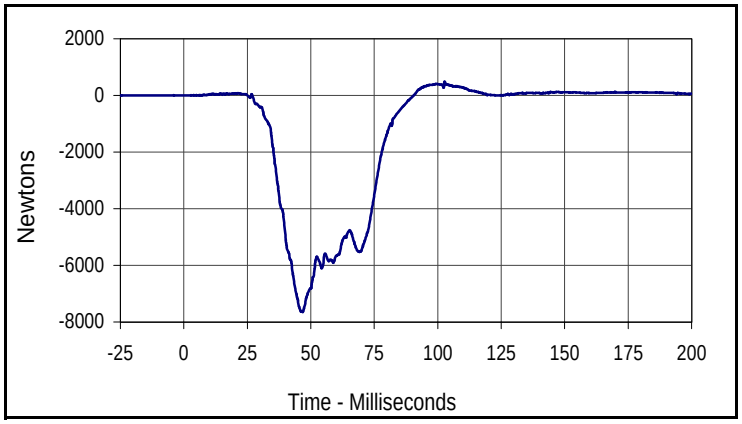


Curve Description			
Passenger (50th) Chest Redundant X Displacement			
CURNO	Type	SAE Class	Units
088	IN2	180	MM
Max	Time	Min	Time
926.0	88.1	-0.3	0.0

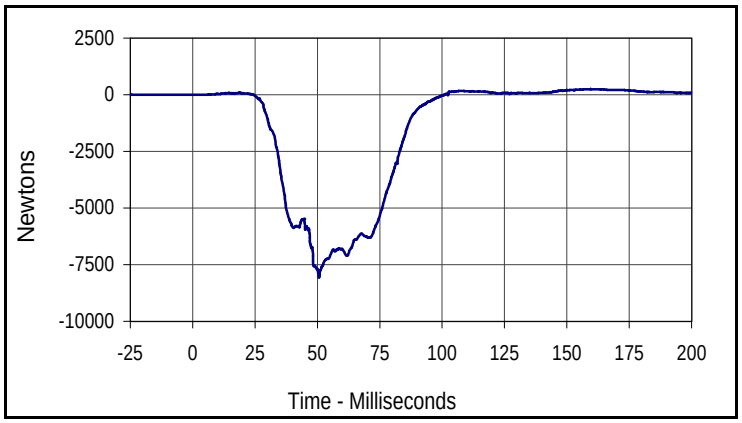
Test Vehicle:	2004 Jeep Liberty 4-Door MPV	Test Date:	9/9/04
Test Program:	2004 FMVSS 208 Upgrade	NHTSA No.:	R40401



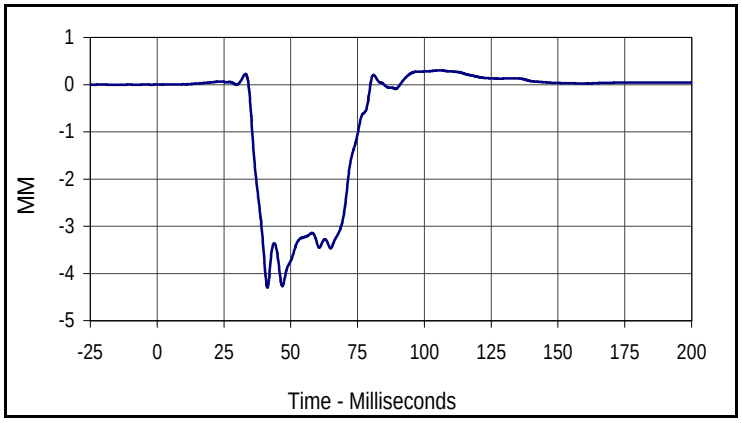
Curve Description			
Passenger (50th) Chest Deflection			
CURNO	Type	SAE Class	Units
091	FIL	600	MM
Max	Time	Min	Time
0.5	52.6	-12.0	87.1



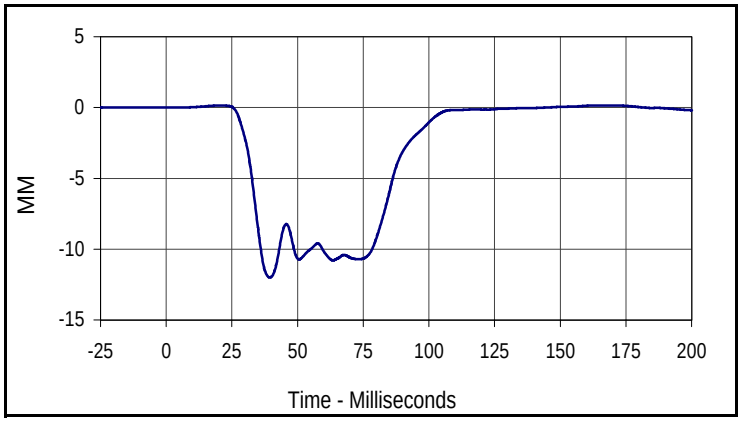
Curve Description			
Passenger (50th) Left Femur Force			
CURNO	Type	SAE Class	Units
092	FIL	600	Newtons
Max	Time	Min	Time
483.7	102.7	-7646.7	46.9



Curve Description			
Passenger (50th) Right Femur Force			
CURNO	Type	SAE Class	Units
093	FIL	600	Newtons
Max	Time	Min	Time
247.5	159.5	-8065.1	50.7

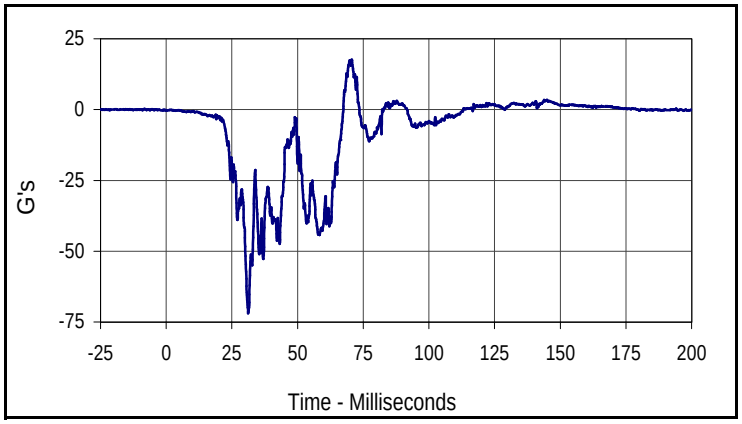


Curve Description			
Passenger (50th) Left Knee Displacement			
CURNO	Type	SAE Class	Units
094	FIL	180	MM
Max	Time	Min	Time
0.3	105.5	-4.3	41.3

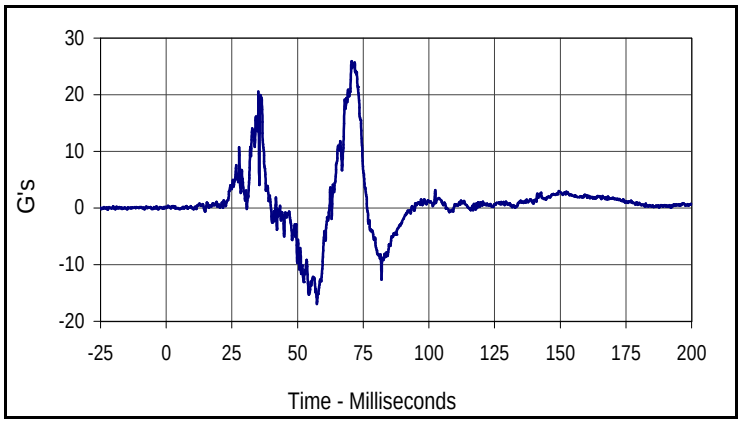


Curve Description			
Passenger (50th) Right Knee Displacement			
CURNO	Type	SAE Class	Units
095	FIL	180	MM
Max	Time	Min	Time
0.2	170.6	-12.0	39.4

Test Vehicle:	2004 Jeep Liberty 4-Door MPV	Test Date:	9/9/04
Test Program:	2004 FMVSS 208 Upgrade	NHTSA No.:	R40401

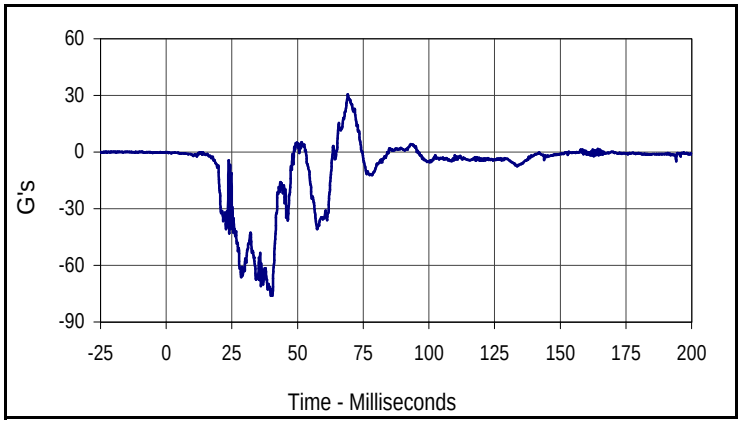


Curve Description			
Passenger (50th) Left Tibia X			
CURNO	Type	SAE Class	Units
096	FIL	1000	G's
Max	Time	Min	Time
17.6	70.6	-71.9	31.2

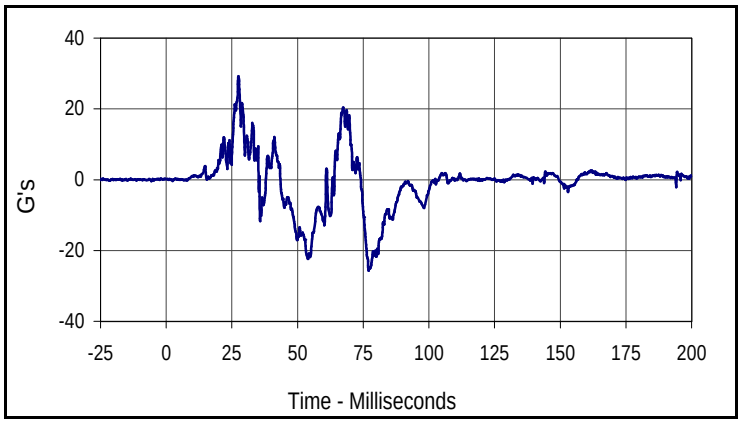


Curve Description			
Passenger (50th) Left Tibia Y			
CURNO	Type	SAE Class	Units
097	FIL	1000	G's
Max	Time	Min	Time
25.9	70.6	-16.9	57.4

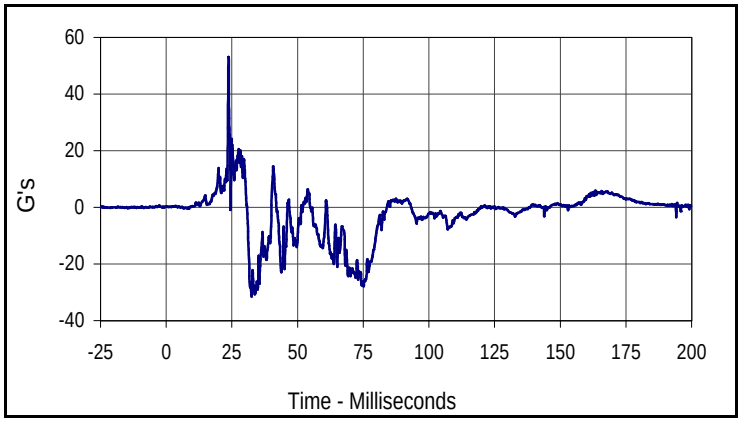
Test Vehicle:	2004 Jeep Liberty 4-Door MPV	Test Date:	9/9/04
Test Program:	2004 FMVSS 208 Upgrade	NHTSA No.:	R40401



Curve Description			
Passenger (50th) Left Foot X			
CURNO	Type	SAE Class	Units
098	FIL	1000	G's
Max	Time	Min	Time
30.6	69.1	-76.1	40.4

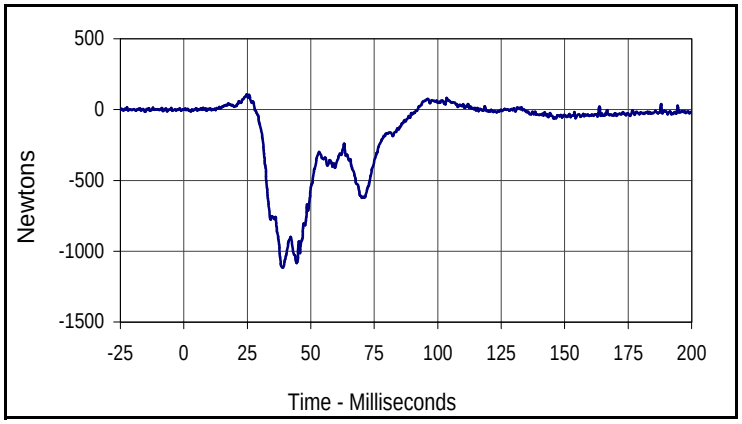


Curve Description			
Passenger (50th) Left Foot Y			
CURNO	Type	SAE Class	Units
099	FIL	1000	G's
Max	Time	Min	Time
29.2	27.5	-25.7	77.1

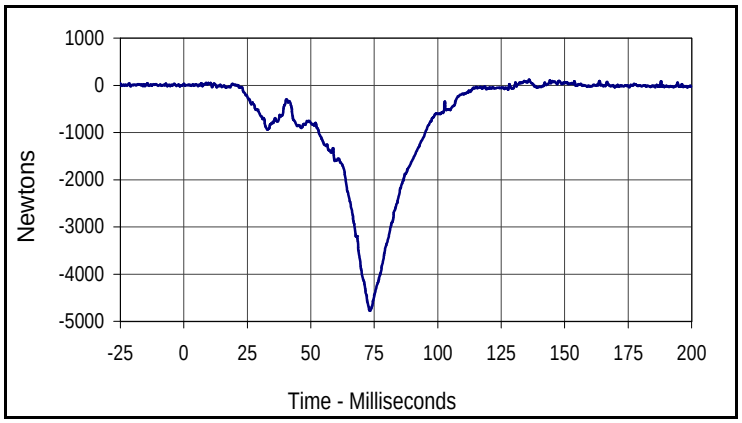


Curve Description			
Passenger (50th) Left Foot Z			
CURNO	Type	SAE Class	Units
100	FIL	1000	G's
Max	Time	Min	Time
53.0	23.7	-31.6	32.5

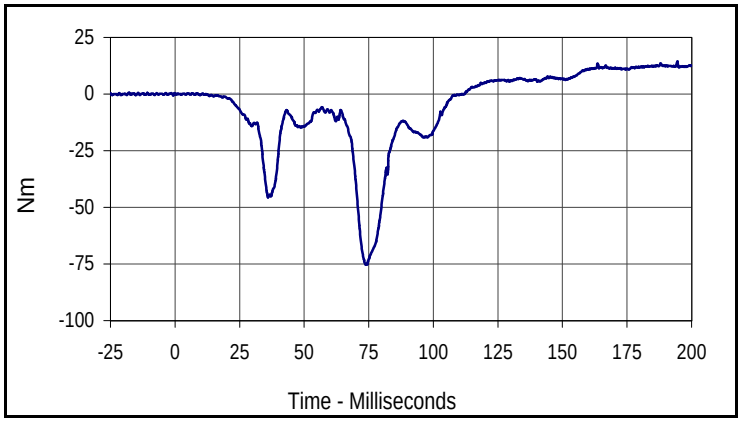
Test Vehicle:	2004 Jeep Liberty 4-Door MPV	Test Date:	9/9/04
Test Program:	2004 FMVSS 208 Upgrade	NHTSA No.:	R40401



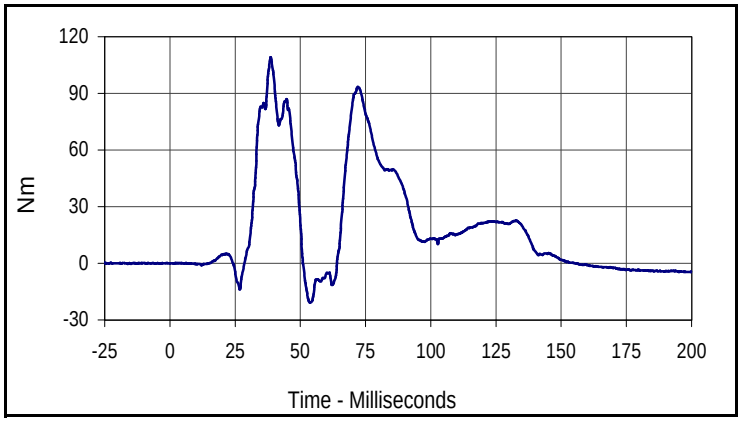
Curve Description			
Passenger (50th) Left Upper Tibia Force X			
CURNO	Type	SAE Class	Units
101	FIL	600	Newtons
Max	Time	Min	Time
106.3	24.8	-1116.9	39.0



Curve Description			
Passenger (50th) Left Upper Tibia Force Z			
CURNO	Type	SAE Class	Units
102	FIL	600	Newtons
Max	Time	Min	Time
120.2	136.0	-4775.1	73.3

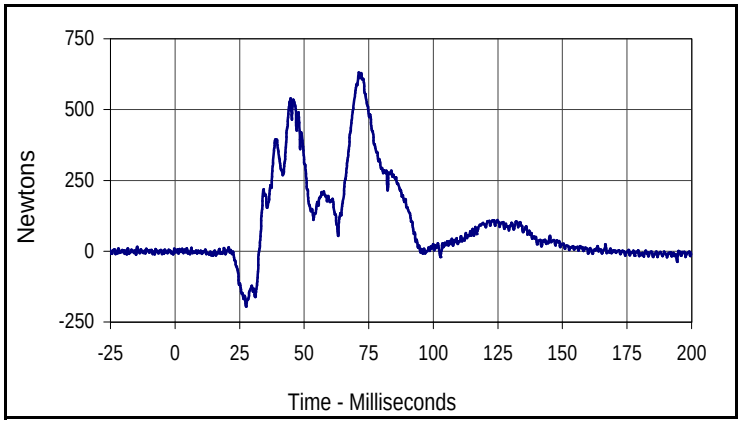


Curve Description			
Passenger (50th) Left Upper Tibia Moment X			
CURNO	Type	SAE Class	Units
103	FIL	600	Nm
Max	Time	Min	Time
14.4	194.5	-75.3	74.0

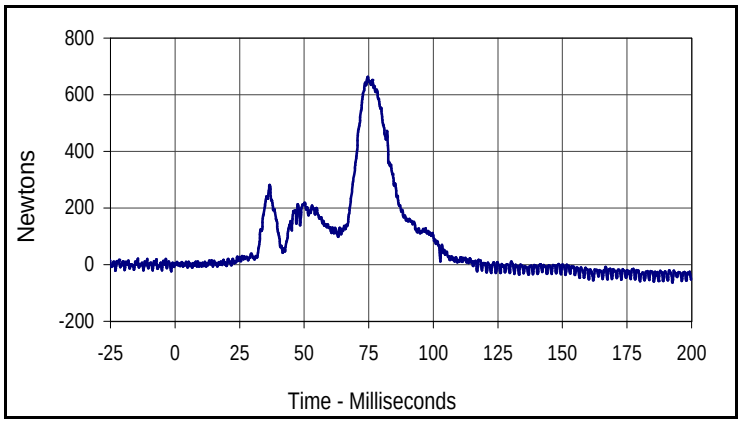


Curve Description			
Passenger (50th) Left Upper Tibia Moment Y			
CURNO	Type	SAE Class	Units
104	FIL	600	Nm
Max	Time	Min	Time
109.1	38.6	-20.8	53.6

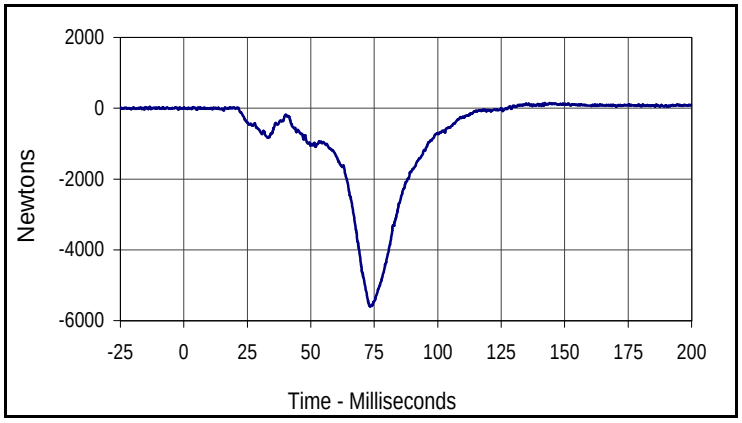
Test Vehicle:	2004 Jeep Liberty 4-Door MPV	Test Date:	9/9/04
Test Program:	2004 FMVSS 208 Upgrade	NHTSA No.:	R40401



Curve Description			
Passenger (50th) Left Lower Tibia Force X			
CURNO	Type	SAE Class	Units
105	FIL	600	Newtons
Max	Time	Min	Time
631.7	71.2	-195.6	27.5

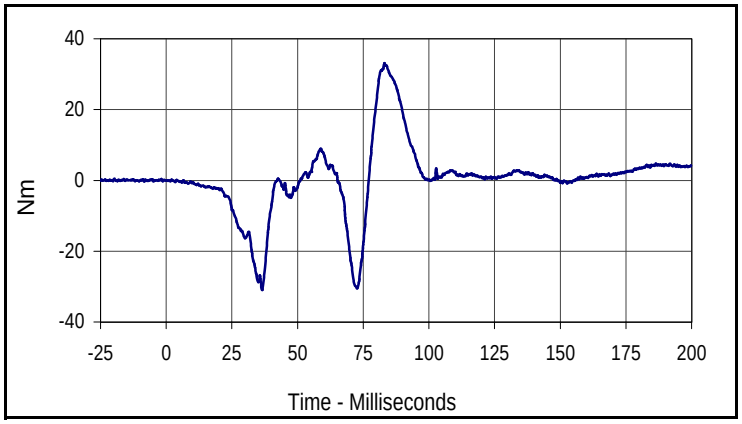


Curve Description			
Passenger (50th) Left Lower Tibia Force Y			
CURNO	Type	SAE Class	Units
106	FIL	600	Newtons
Max	Time	Min	Time
662.9	74.6	-62.7	192.6

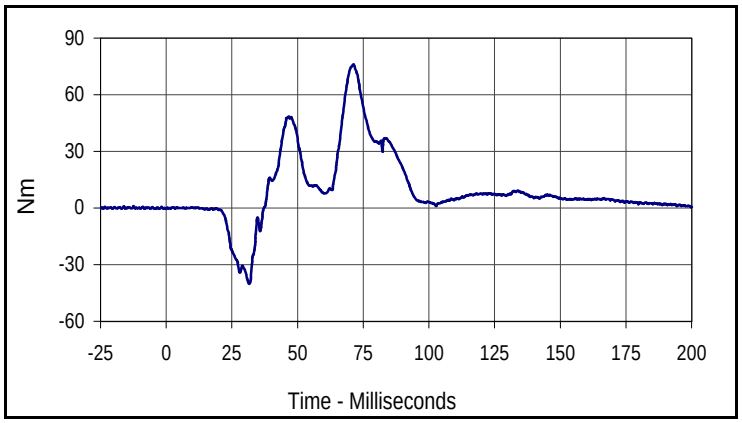


Curve Description			
Passenger (50th) Left Lower Tibia Force Z			
CURNO	Type	SAE Class	Units
107	FIL	600	Newtons
Max	Time	Min	Time
147.7	142.3	-5600.1	73.4

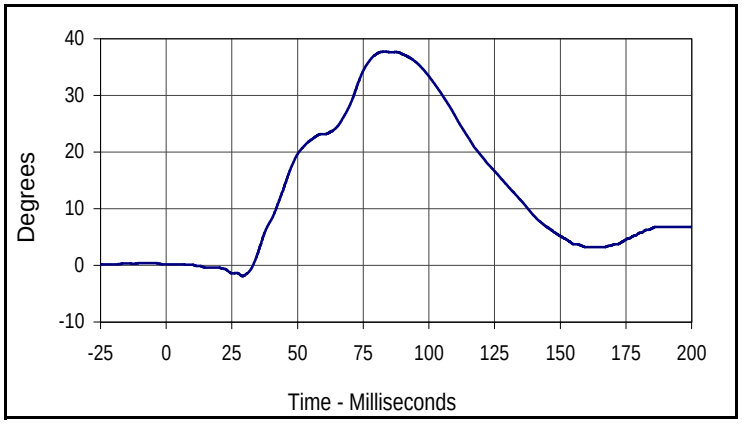
Test Vehicle:	2004 Jeep Liberty 4-Door MPV	Test Date:	9/9/04
Test Program:	2004 FMVSS 208 Upgrade	NHTSA No.:	R40401



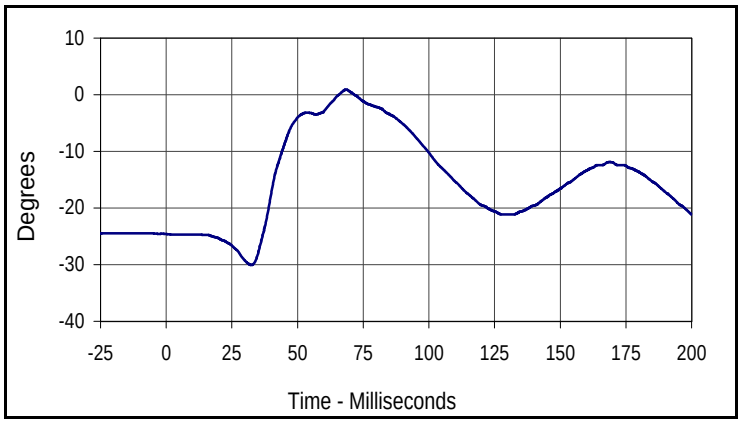
Curve Description			
Passenger (50th) Left Lower Tibia Moment X			
CURNO	Type	SAE Class	Units
108	FIL	600	Nm
Max	Time	Min	Time
33.2	83.1	-31.0	36.5



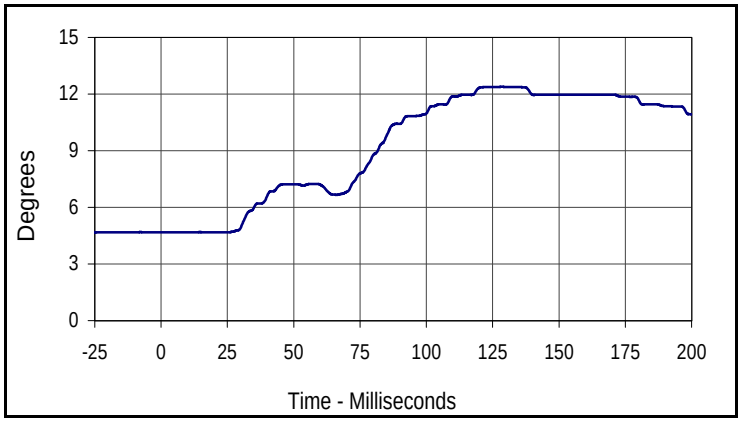
Curve Description			
Passenger (50th) Left Lower Tibia Moment Y			
CURNO	Type	SAE Class	Units
109	FIL	600	Nm
Max	Time	Min	Time
76.1	71.3	-40.2	31.6



Curve Description			
Passenger (50th) Left Ankle Rotation X			
CURNO	Type	SAE Class	Units
110	FIL	180	Degrees
Max	Time	Min	Time
37.8	83.2	-1.9	29.1

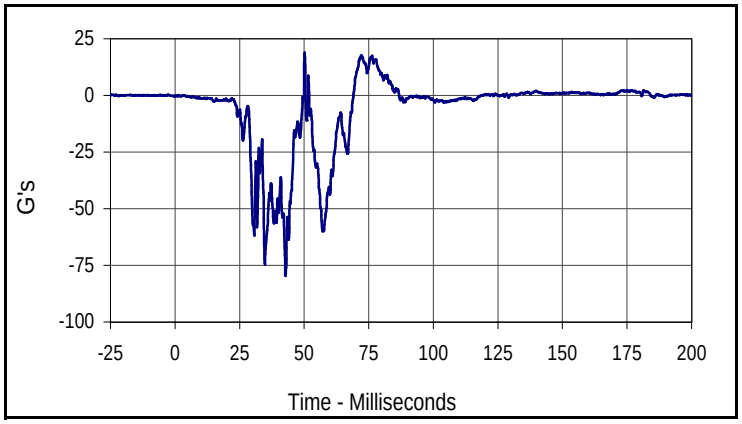


Curve Description			
Passenger (50th) Left Ankle Rotation Y			
CURNO	Type	SAE Class	Units
111	FIL	180	Degrees
Max	Time	Min	Time
0.9	68.5	-30.1	32.4

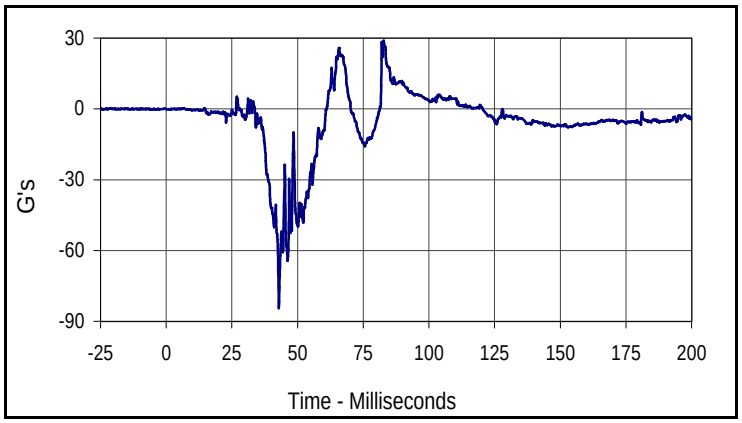


Curve Description			
Passenger (50th) Left Ankle Rotation Z			
CURNO	Type	SAE Class	Units
112	FIL	180	Degrees
Max	Time	Min	Time
12.4	128.5	4.7	0.4

Test Vehicle:	2004 Jeep Liberty 4-Door MPV	Test Date:	9/9/04
Test Program:	2004 FMVSS 208 Upgrade	NHTSA No.:	R40401

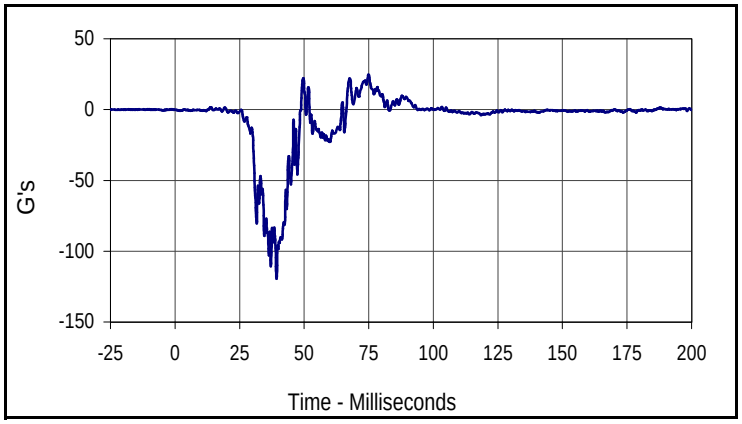


Curve Description			
Passenger (50th) Right Tibia X			
CURNO	Type	SAE Class	Units
113	FIL	1000	G's
Max	Time	Min	Time
19.0	50.2	-79.6	42.8

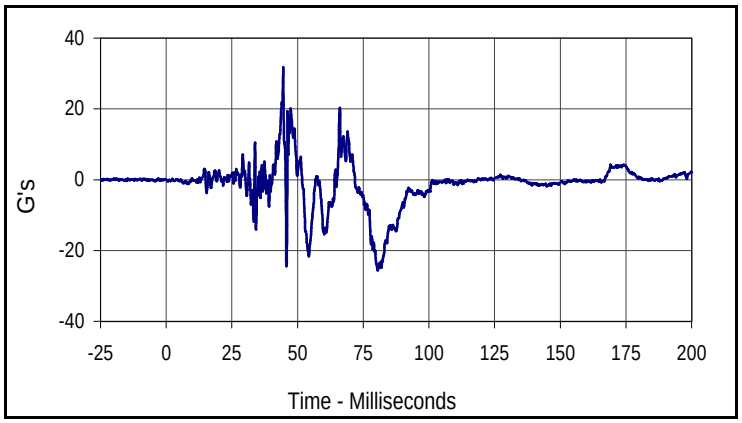


Curve Description			
Passenger (50th) Right Tibia Y			
CURNO	Type	SAE Class	Units
114	FIL	1000	G's
Max	Time	Min	Time
28.9	82.8	-84.4	42.9

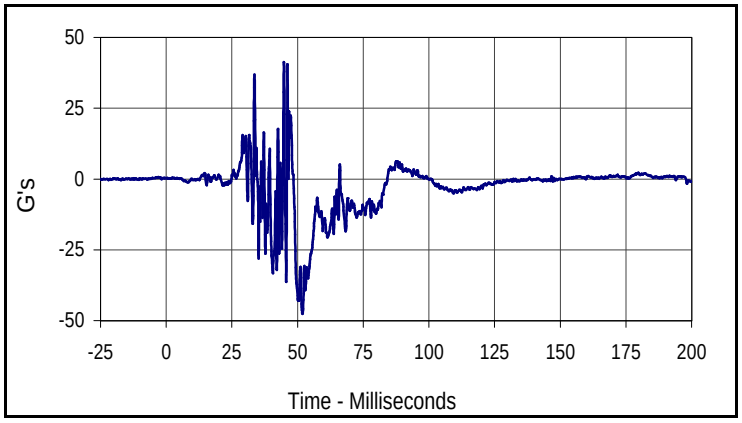
Test Vehicle:	2004 Jeep Liberty 4-Door MPV	Test Date:	9/9/04
Test Program:	2004 FMVSS 208 Upgrade	NHTSA No.:	R40401



Curve Description			
Passenger (50th) Right Foot X			
CURNO	Type	SAE Class	Units
115	FIL	1000	G's
Max	Time	Min	Time
24.8	75.0	-119.5	39.3

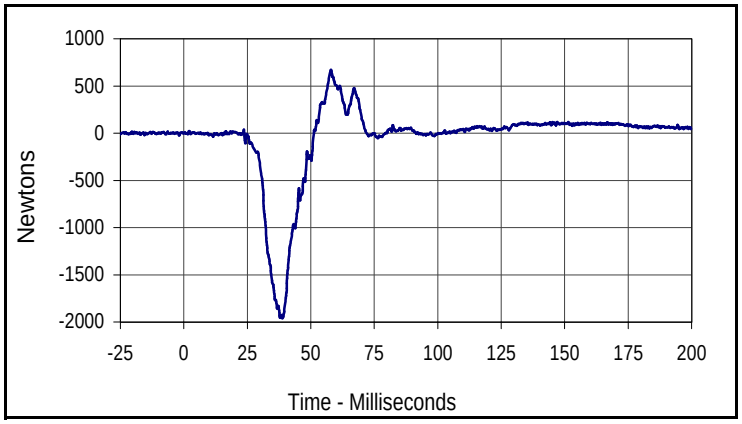


Curve Description			
Passenger (50th) Right Foot Y			
CURNO	Type	SAE Class	Units
116	FIL	1000	G's
Max	Time	Min	Time
31.8	44.5	-25.6	80.5

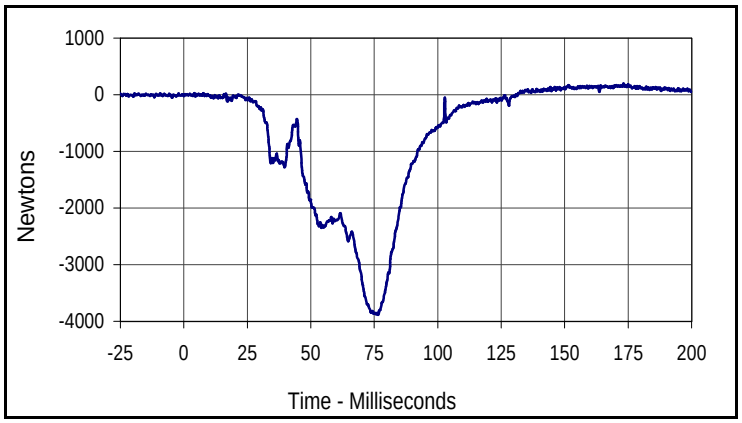


Curve Description			
Passenger (50th) Right Foot Z			
CURNO	Type	SAE Class	Units
117	FIL	1000	G's
Max	Time	Min	Time
41.2	44.8	-47.6	51.9

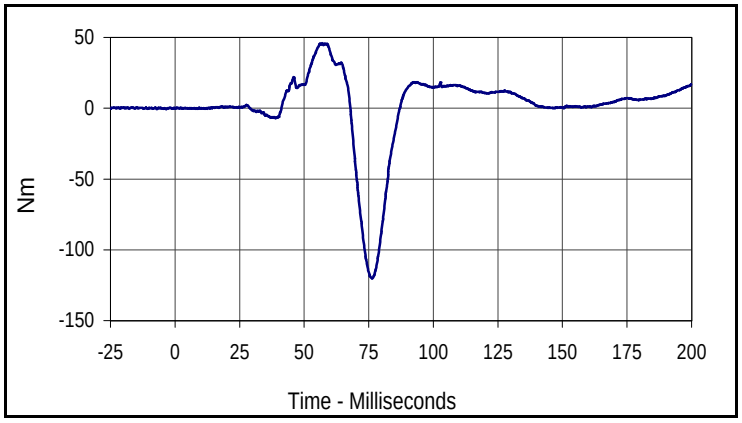
Test Vehicle:	2004 Jeep Liberty 4-Door MPV	Test Date:	9/9/04
Test Program:	2004 FMVSS 208 Upgrade	NHTSA No.:	R40401



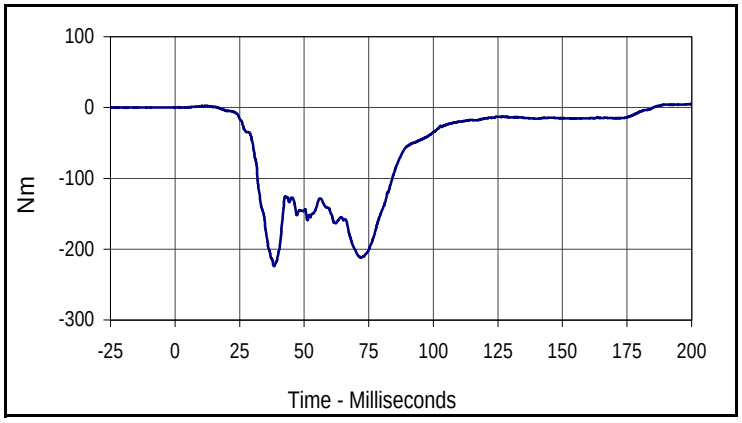
Curve Description			
Passenger (50th) Right Upper Tibia Force X			
CURNO	Type	SAE Class	Units
118	FIL	600	Newtons
Max	Time	Min	Time
671.8	58.0	-1963.5	38.8



Curve Description			
Passenger (50th) Right Upper Tibia Force Z			
CURNO	Type	SAE Class	Units
119	FIL	600	Newtons
Max	Time	Min	Time
200.5	173.2	-3886.1	76.5

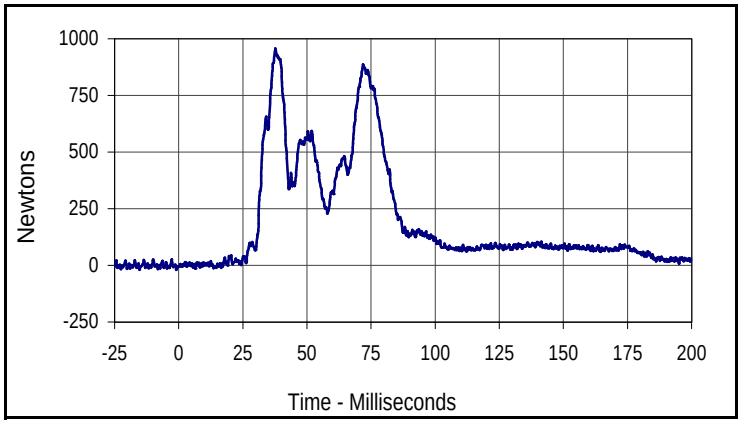


Curve Description			
Passenger (50th) Right Upper Tibia Moment X			
CURNO	Type	SAE Class	Units
120	FIL	600	Nm
Max	Time	Min	Time
45.9	56.9	-120.2	76.4

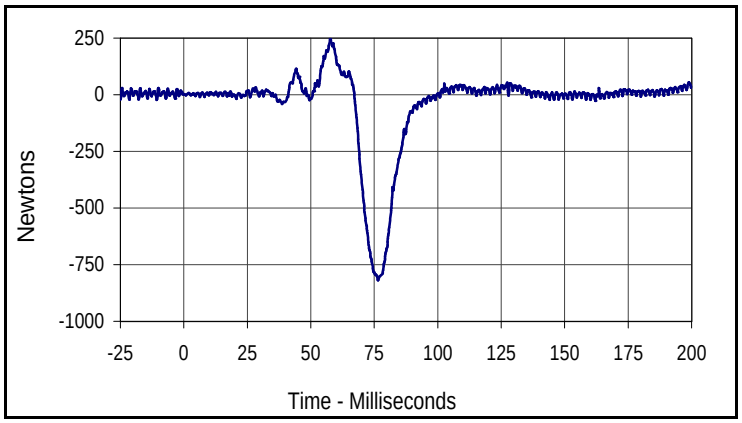


Curve Description			
Passenger (50th) Right Upper Tibia Moment Y			
CURNO	Type	SAE Class	Units
121	FIL	600	Nm
Max	Time	Min	Time
5.1	199.9	-224.2	38.3

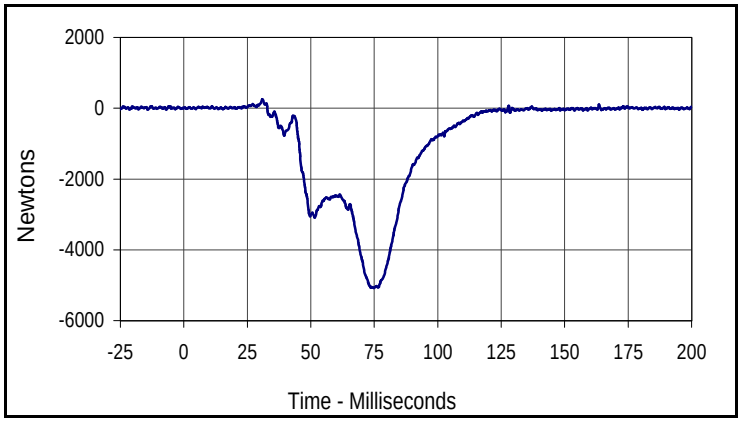
Test Vehicle:	2004 Jeep Liberty 4-Door MPV	Test Date:	9/9/04
Test Program:	2004 FMVSS 208 Upgrade	NHTSA No.:	R40401



Curve Description			
Passenger (50th) Right Lower Tibia Force X			
CURNO	Type	SAE Class	Units
122	FIL	600	Newtons
Max	Time	Min	Time
957.2	37.7	-13.5	6.5

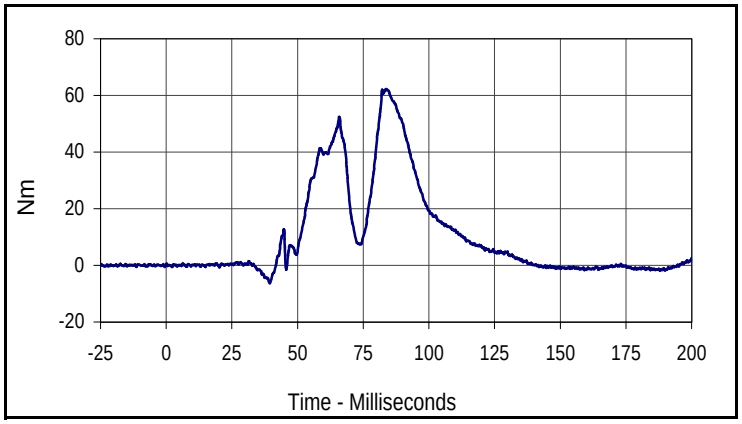


Curve Description			
Passenger (50th) Right Lower Tibia Force Y			
CURNO	Type	SAE Class	Units
123	FIL	600	Newtons
Max	Time	Min	Time
248.1	57.7	-818.9	76.5

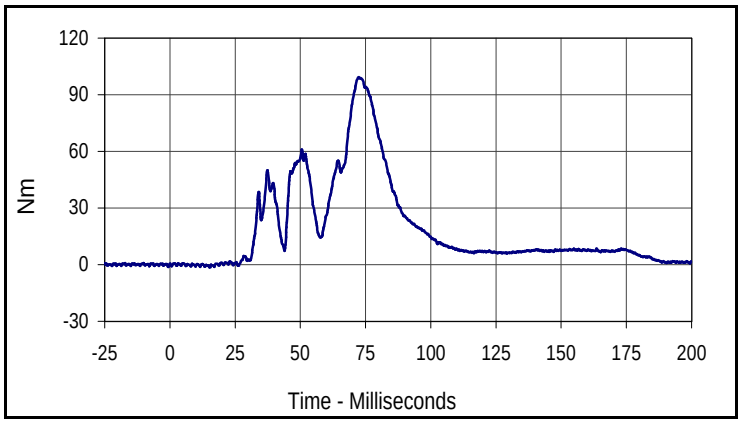


Curve Description			
Passenger (50th) Right Lower Tibia Force Z			
CURNO	Type	SAE Class	Units
124	FIL	600	Newtons
Max	Time	Min	Time
251.3	30.9	-5074.1	74.8

Test Vehicle:	2004 Jeep Liberty 4-Door MPV	Test Date:	9/9/04
Test Program:	2004 FMVSS 208 Upgrade	NHTSA No.:	R40401

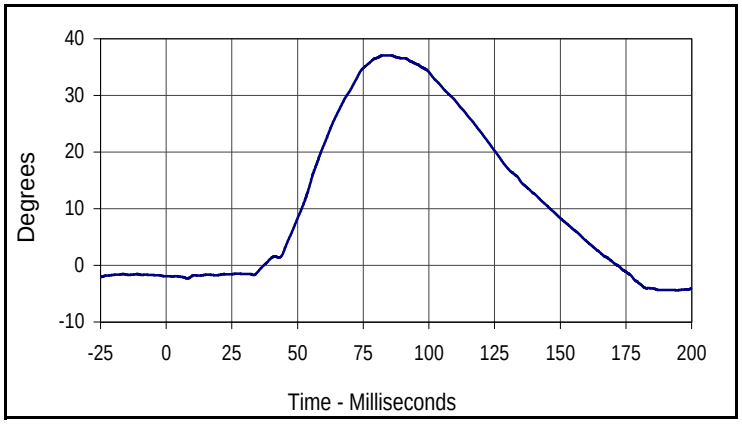


Curve Description			
Passenger (50th) Right Lower Tibia Moment X			
CURNO	Type	SAE Class	Units
125	FIL	600	Nm
Max	Time	Min	Time
62.3	83.7	-6.3	39.4

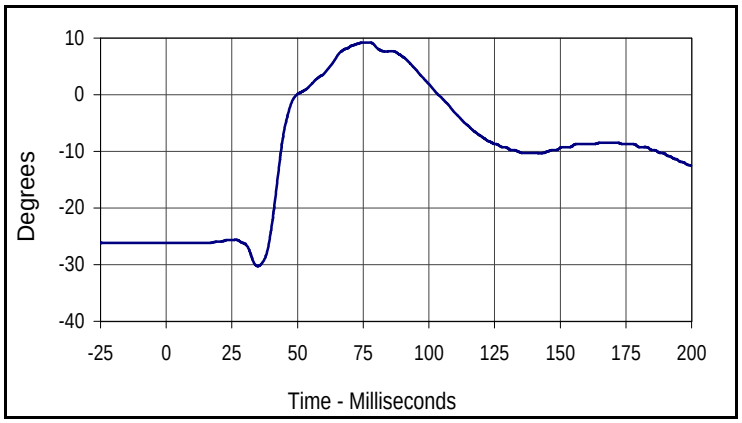


Curve Description			
Passenger (50th) Right Lower Tibia Moment Y			
CURNO	Type	SAE Class	Units
126	FIL	600	Nm
Max	Time	Min	Time
99.4	72.4	-1.4	15.2

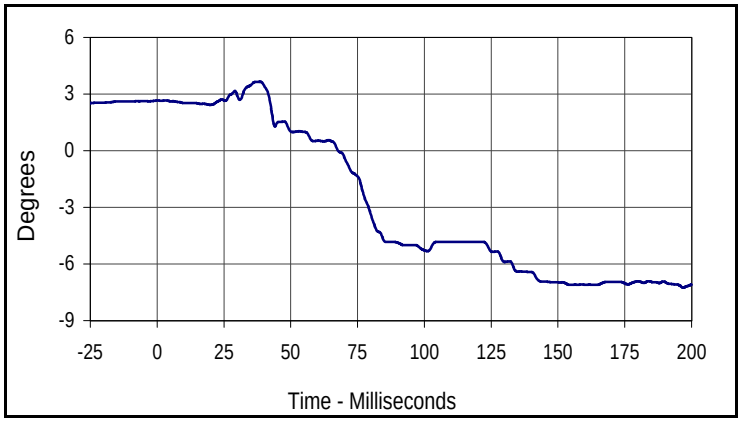
Test Vehicle:	2004 Jeep Liberty 4-Door MPV	Test Date:	9/9/04
Test Program:	2004 FMVSS 208 Upgrade	NHTSA No.:	R40401



Curve Description			
Passenger (50th) Right Ankle Rotation X			
CURNO	Type	SAE Class	Units
127	FIL	180	Degrees
Max	Time	Min	Time
37.1	82.7	-4.4	194.5

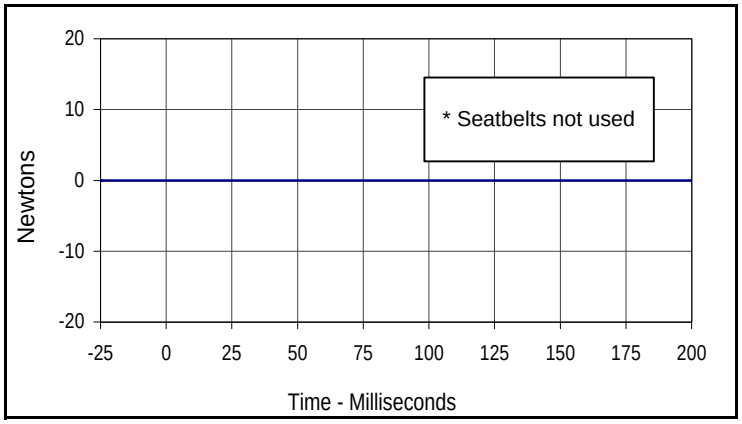


Curve Description			
Passenger (50th) Right Ankle Rotation Y			
CURNO	Type	SAE Class	Units
128	FIL	180	Degrees
Max	Time	Min	Time
9.2	77.1	-30.3	34.9



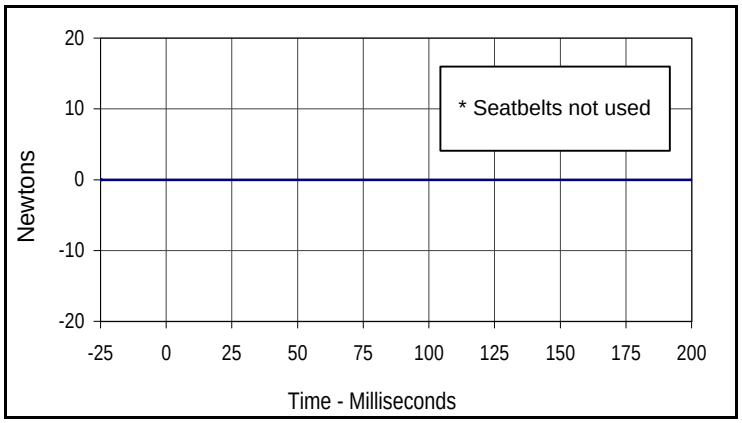
Curve Description			
Passenger (50th) Right Ankle Rotation Z			
CURNO	Type	SAE Class	Units
129	FIL	180	Degrees
Max	Time	Min	Time
3.7	38.4	-7.3	196.9

Test Vehicle:	2004 Jeep Liberty 4-Door MPV	Test Date:	9/9/04
Test Program:	2004 FMVSS 208 Upgrade	NHTSA No.:	R40401



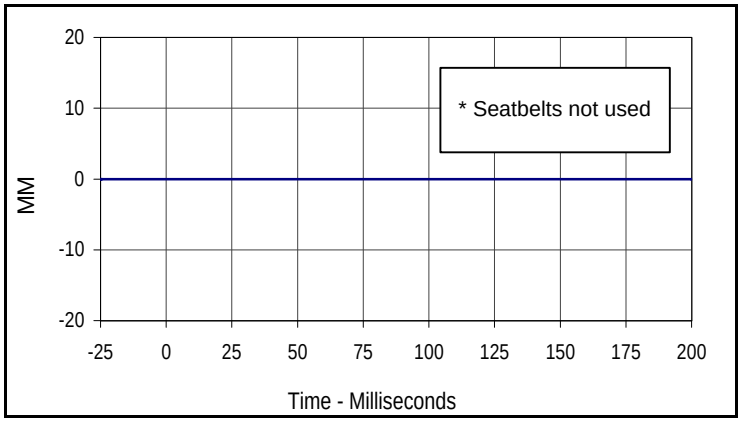
Curve Description			
Passenger (50th) Lap Belt Force			
CURNO	Type	SAE Class	Units
130	FIL	60	Newtons
Max	Time	Min	Time
0.0	0.0	0.0	0.0

* Seatbelts not used



Curve Description			
Passenger (50th) Shoulder Belt Force			
CURNO	Type	SAE Class	Units
131	FIL	60	Newtons
Max	Time	Min	Time
0.0	0.0	0.0	0.0

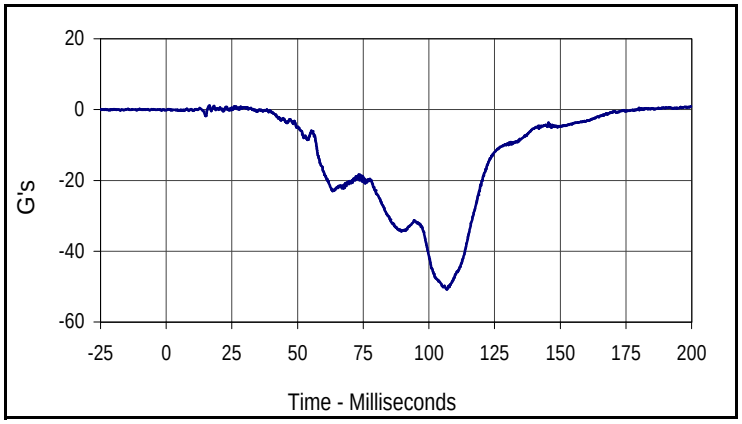
* Seatbelts not used



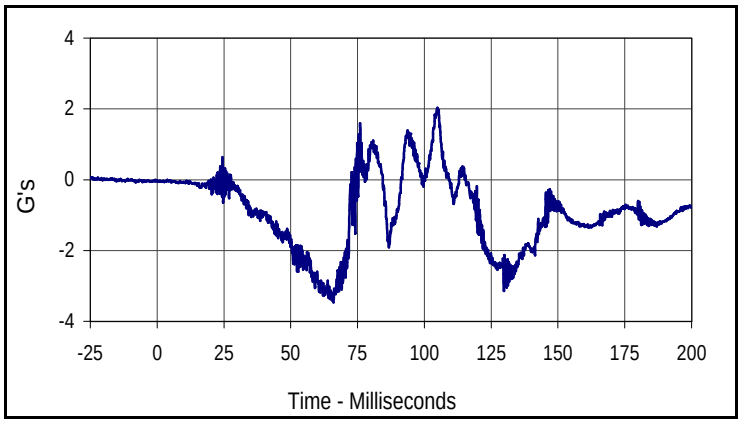
Curve Description			
Passenger (50th) Shoulder Belt Pullout			
CURNO	Type	SAE Class	Units
132	FIL	60	MM
Max	Time	Min	Time
0.0	0.0	0.0	0.0

* Seatbelts not used

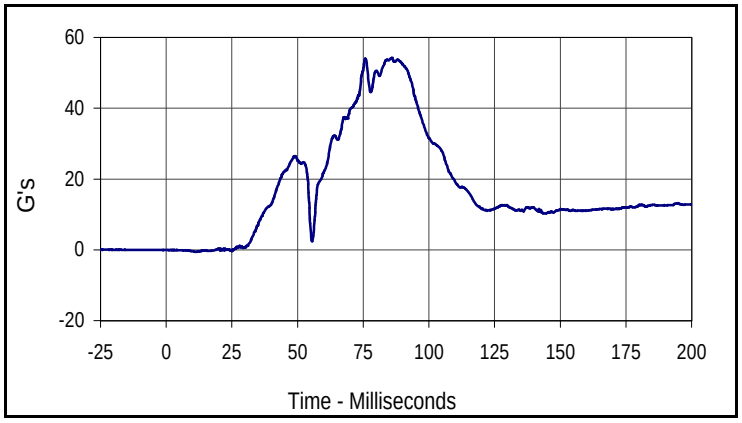
Test Vehicle:	2004 Jeep Liberty 4-Door MPV	Test Date:	9/9/04
Test Program:	2004 FMVSS 208 Upgrade	NHTSA No.:	R40401



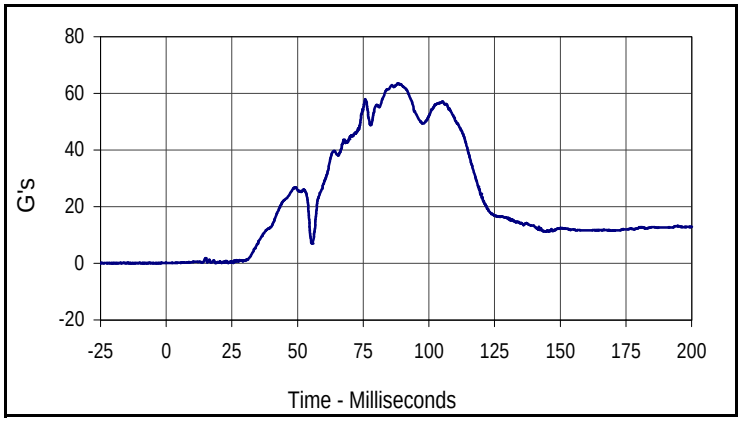
Curve Description			
Center Rear Pass. (50th) Head Primary X			
CURNO	Type	SAE Class	Units
133	FIL	1000	G's
Max	Time	Min	Time
1.1	16.4	-50.8	106.7



Curve Description			
Center Rear Pass. (50th) Head Primary Y			
CURNO	Type	SAE Class	Units
134	FIL	1000	G's
Max	Time	Min	Time
2.0	104.9	-3.5	66.0

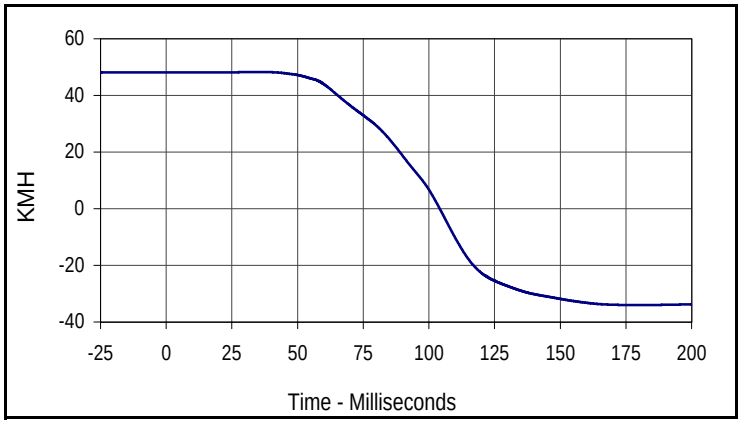


Curve Description			
Center Rear Pass. (50th) Head Primary Z			
CURNO	Type	SAE Class	Units
135	FIL	1000	G's
Max	Time	Min	Time
54.2	85.8	-0.6	11.5

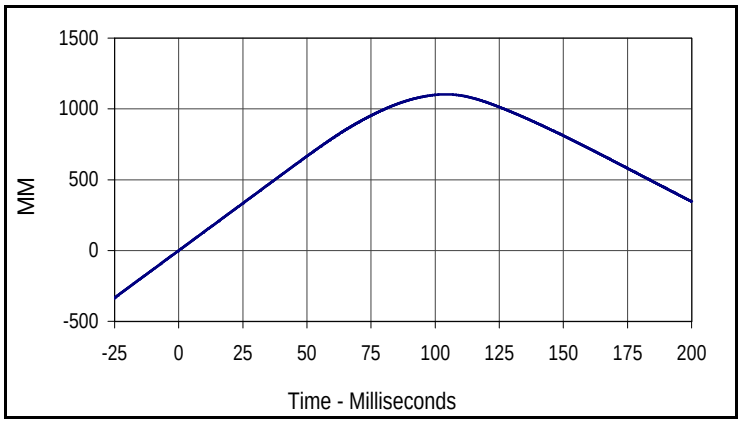


Curve Description			
Center Rear Pass. (50th) Head Resultant Primary			
CURNO	Type	SAE Class	Units
133	RES	1000	G's
Max	Time	Min	Time
63.5	88.5	0.1	3.1

Test Vehicle:	2004 Jeep Liberty 4-Door MPV	Test Date:	9/9/04
Test Program:	2004 FMVSS 208 Upgrade	NHTSA No.:	R40401

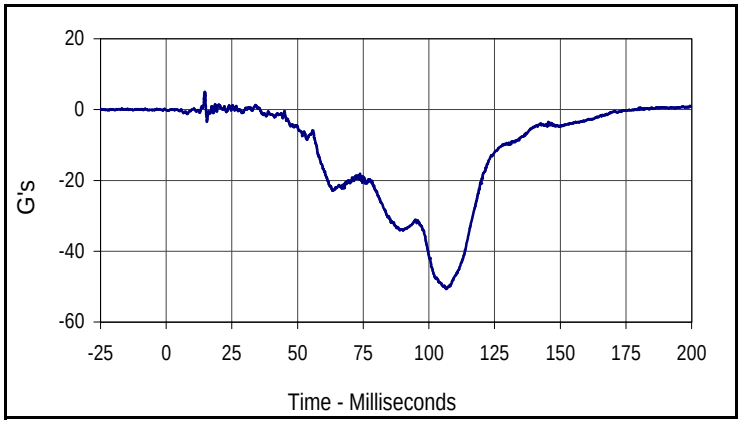


Curve Description			
Center Rear Pass. (50th) Head Primary X Velocity			
CURNO	Type	SAE Class	Units
133	IN1	180	KMH
Max	Time	Min	Time
48.3	33.1	-34.0	179.2

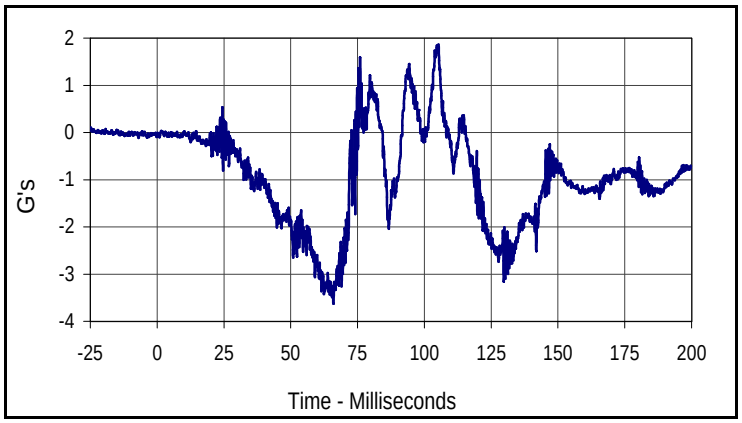


Curve Description			
Center Rear Pass. (50th) Head Primary X Displacement			
CURNO	Type	SAE Class	Units
133	IN2	180	MM
Max	Time	Min	Time
1103.0	104.1	-0.1	0.0

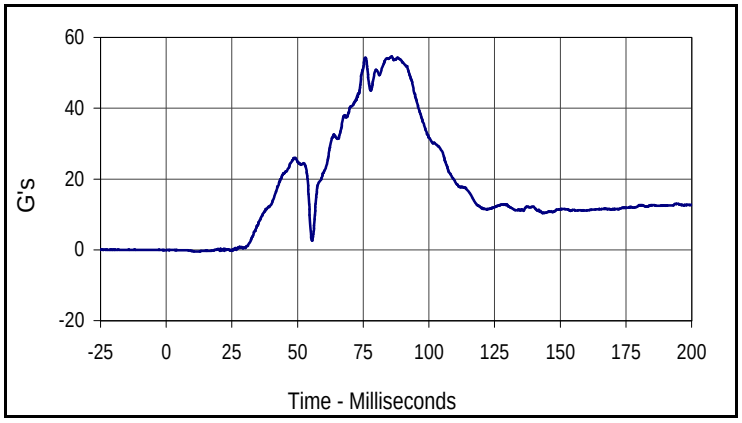
Test Vehicle:	2004 Jeep Liberty 4-Door MPV	Test Date:	9/9/04
Test Program:	2004 FMVSS 208 Upgrade	NHTSA No.:	R40401



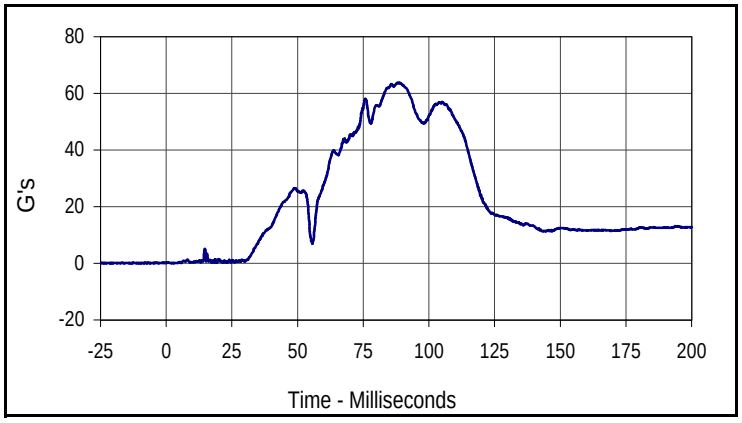
Curve Description			
Center Rear Pass. (50th) NAAH CG X			
CURNO	Type	SAE Class	Units
136	FIL	1000	G's
Max	Time	Min	Time
5.0	14.7	-50.6	106.6



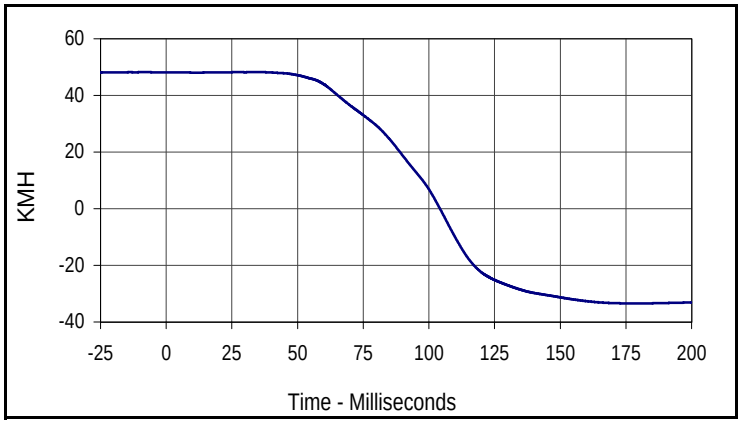
Curve Description			
Center Rear Pass. (50th) NAAH CG Y			
CURNO	Type	SAE Class	Units
137	FIL	1000	G's
Max	Time	Min	Time
1.9	105.3	-3.6	66.0



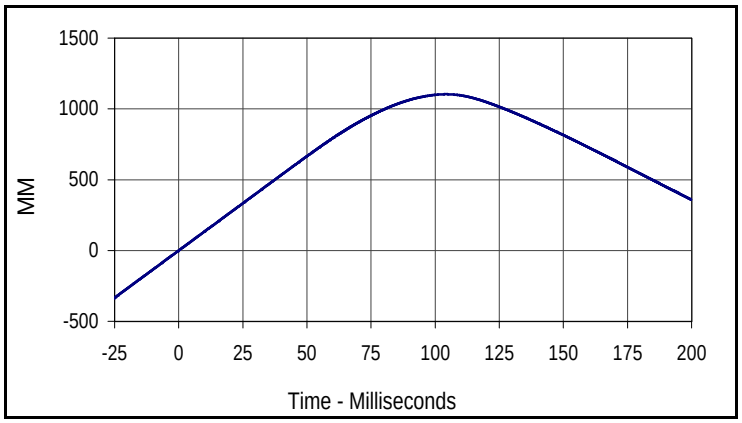
Curve Description			
Center Rear Pass. (50th) NAAH CG Z			
CURNO	Type	SAE Class	Units
138	FIL	1000	G's
Max	Time	Min	Time
54.7	85.8	-0.5	11.9



Curve Description			
Center Rear Pass. (50th) NAAH CG Resultant			
CURNO	Type	SAE Class	Units
136	RES	1000	G's
Max	Time	Min	Time
63.7	88.9	0.0	2.1

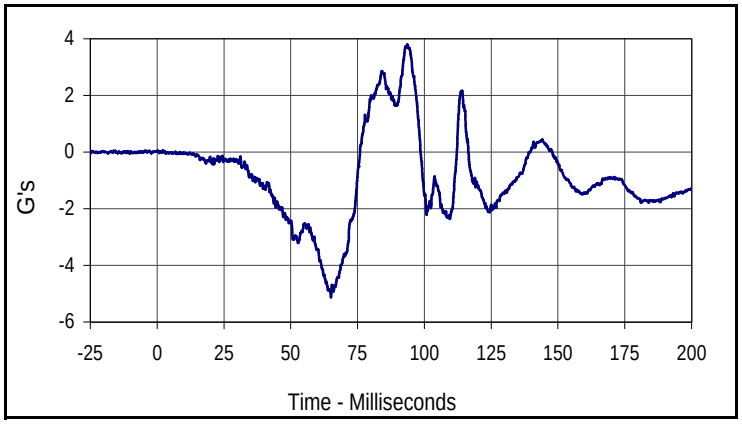


Curve Description			
Center Rear Pass. (50th) NAAH CG X Velocity			
CURNO	Type	SAE Class	Units
136	IN1	180	KMH
Max	Time	Min	Time
48.3	35.6	-33.4	179.1

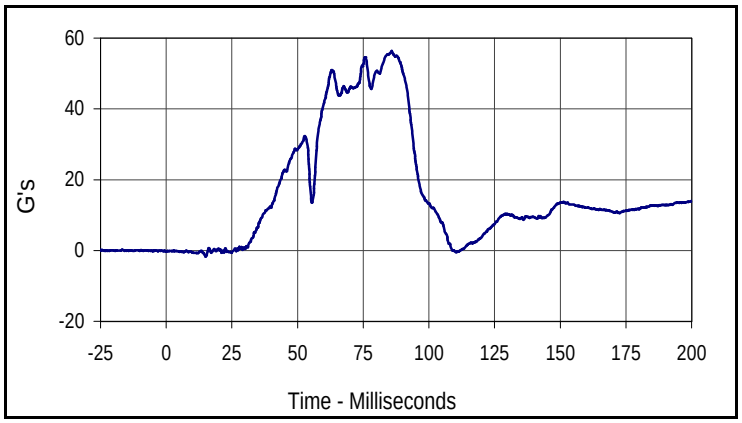


Curve Description			
Center Rear Pass. (50th) NAAH CG X Displacement			
CURNO	Type	SAE Class	Units
136	IN2	180	MM
Max	Time	Min	Time
1103.5	104.2	0.0	0.0

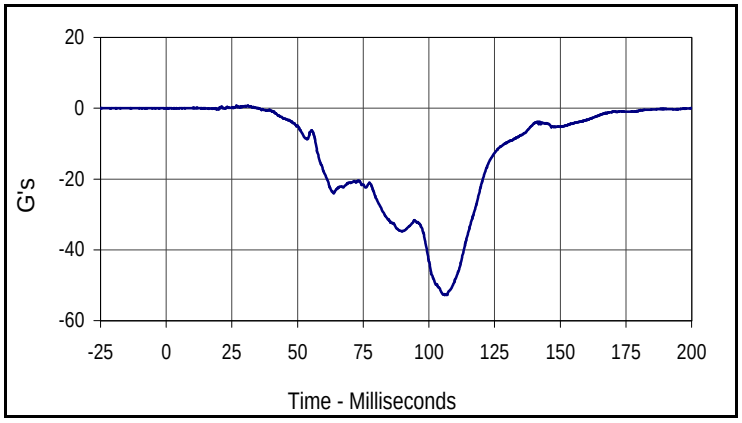
Test Vehicle:	2004 Jeep Liberty 4-Door MPV	Test Date:	9/9/04
Test Program:	2004 FMVSS 208 Upgrade	NHTSA No.:	R40401



Curve Description			
Center Rear Pass. (50th) NAAH Xarm-Y			
CURNO	Type	SAE Class	Units
139	FIL	1000	G's
Max	Time	Min	Time
3.8	93.7	-5.1	65.1

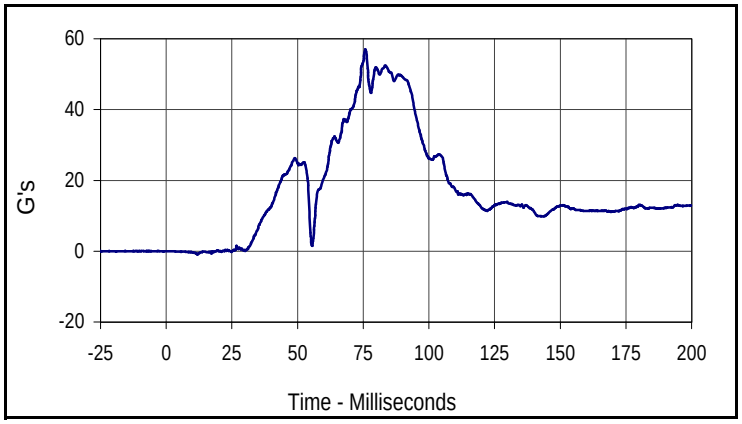


Curve Description			
Center Rear Pass. (50th) NAAH Xarm-Z			
CURNO	Type	SAE Class	Units
140	FIL	1000	G's
Max	Time	Min	Time
56.4	85.8	-1.7	15.0

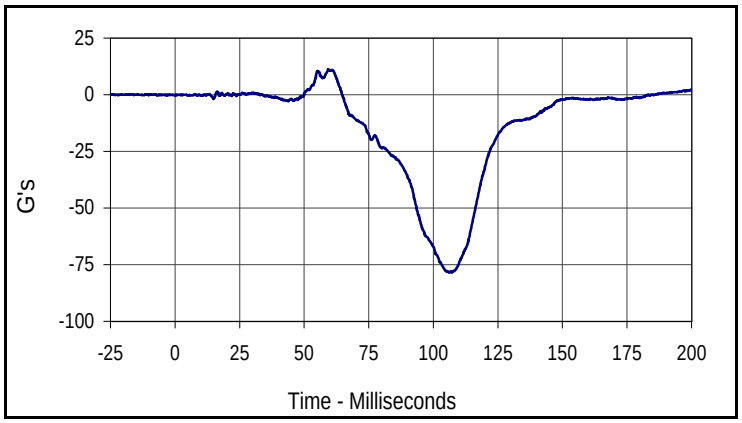


Curve Description			
Center Rear Pass. (50th) NAAH Yarm-X			
CURNO	Type	SAE Class	Units
141	FIL	1000	G's
Max	Time	Min	Time
0.8	26.7	-52.8	106.8

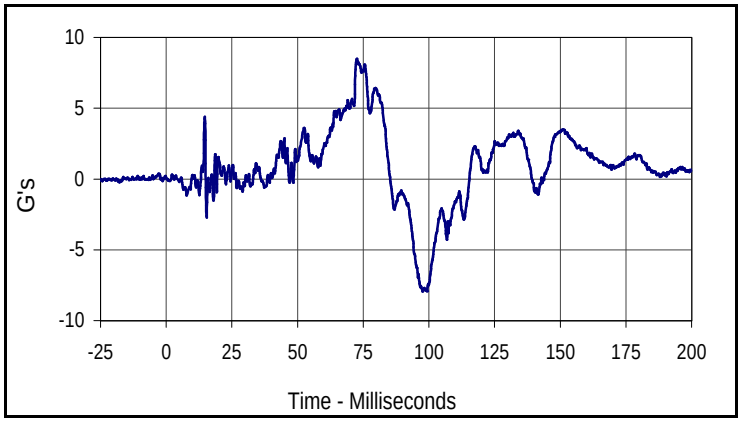
Test Vehicle:	2004 Jeep Liberty 4-Door MPV	Test Date:	9/9/04
Test Program:	2004 FMVSS 208 Upgrade	NHTSA No.:	R40401



Curve Description			
Center Rear Pass. (50th) NAAH Yarm-Z			
CURNO	Type	SAE Class	Units
142	FIL	1000	G's
Max	Time	Min	Time
57.0	75.8	-1.0	11.9

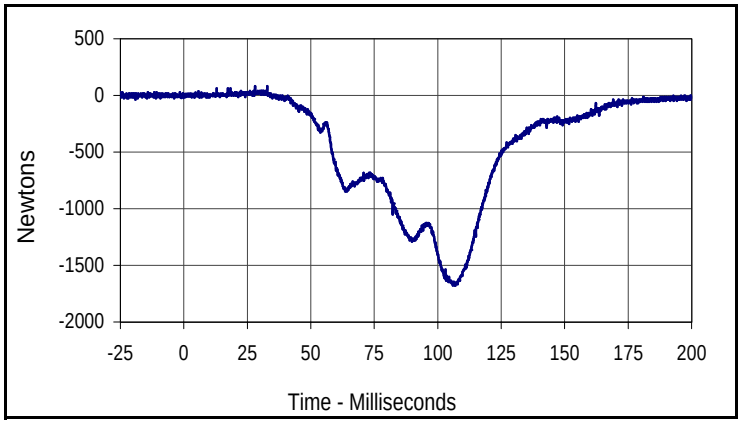


Curve Description			
Center Rear Pass. (50th) NAAH Zarm-X			
CURNO	Type	SAE Class	Units
143	FIL	1000	G's
Max	Time	Min	Time
11.2	59.3	-78.4	106.1

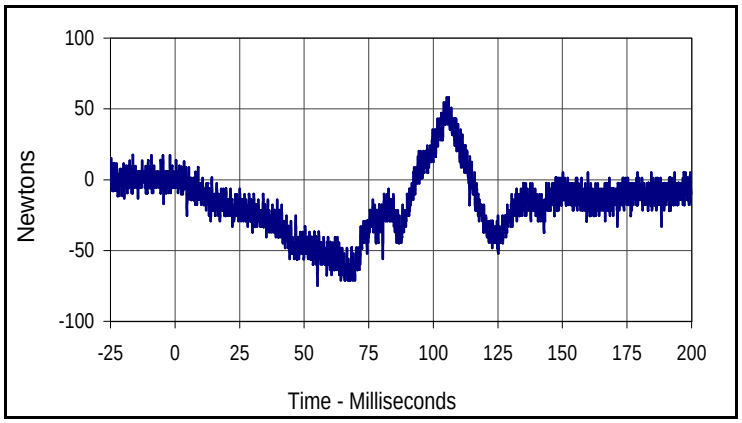


Curve Description			
Center Rear Pass. (50th) NAAH Zarm-Y			
CURNO	Type	SAE Class	Units
144	FIL	1000	G's
Max	Time	Min	Time
8.5	72.6	-7.9	97.7

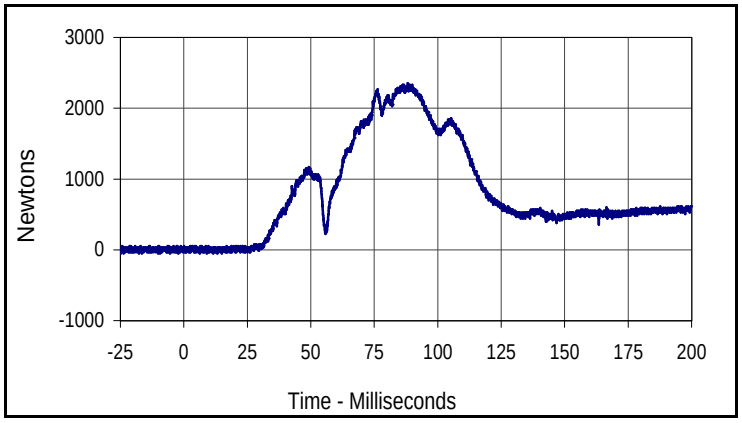
Test Vehicle:	2004 Jeep Liberty 4-Door MPV	Test Date:	9/9/04
Test Program:	2004 FMVSS 208 Upgrade	NHTSA No.:	R40401



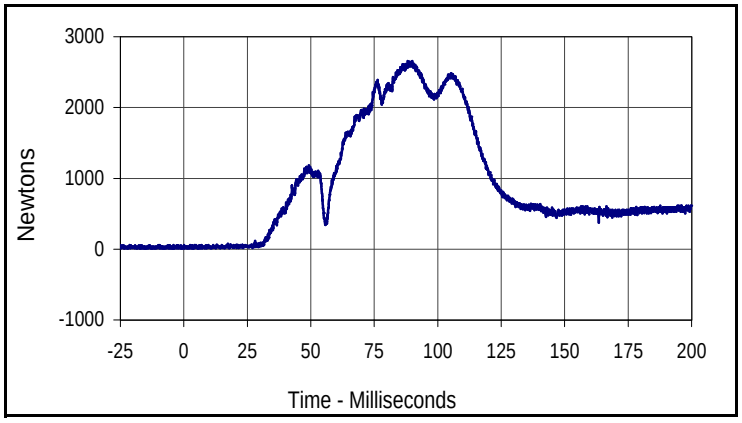
Curve Description			
Center Rear Pass. (50th) Upper Neck Force X			
CURNO	Type	SAE Class	Units
145	FIL	1000	Newtons
Max	Time	Min	Time
82.7	28.1	-1678.5	106.0



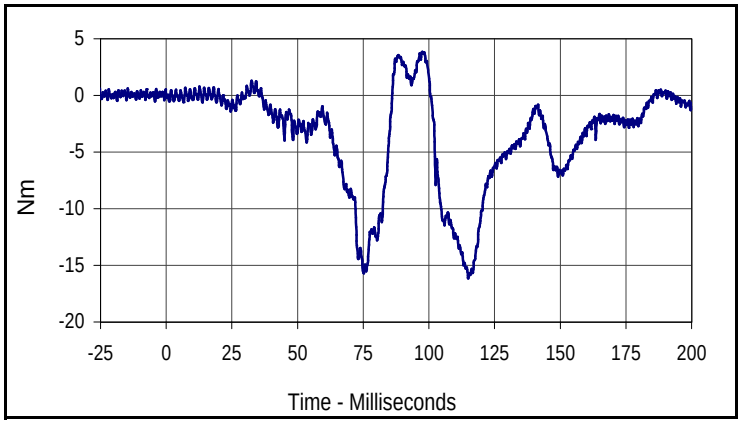
Curve Description			
Center Rear Pass. (50th) Upper Neck Force Y			
CURNO	Type	SAE Class	Units
146	FIL	1000	Newtons
Max	Time	Min	Time
58.3	105.2	-74.9	55.2



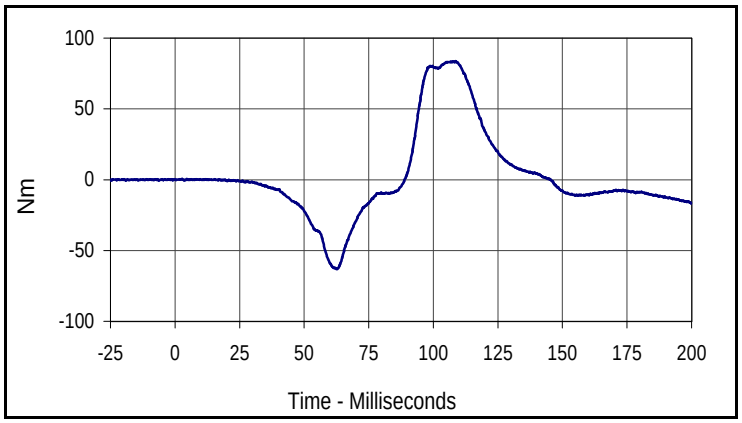
Curve Description			
Center Rear Pass. (50th) Upper Neck Force Z			
CURNO	Type	SAE Class	Units
147	FIL	1000	Newtons
Max	Time	Min	Time
2352.1	88.2	-52.9	6.2



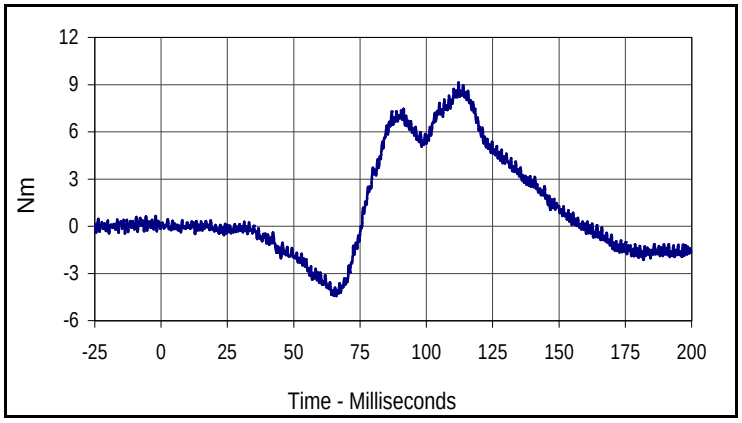
Curve Description			
Center Rear Pass. (50th) Upper Neck Force Res.			
CURNO	Type	SAE Class	Units
145	RES	1000	Newtons
Max	Time	Min	Time
2658.4	89.9	10.4	12.5



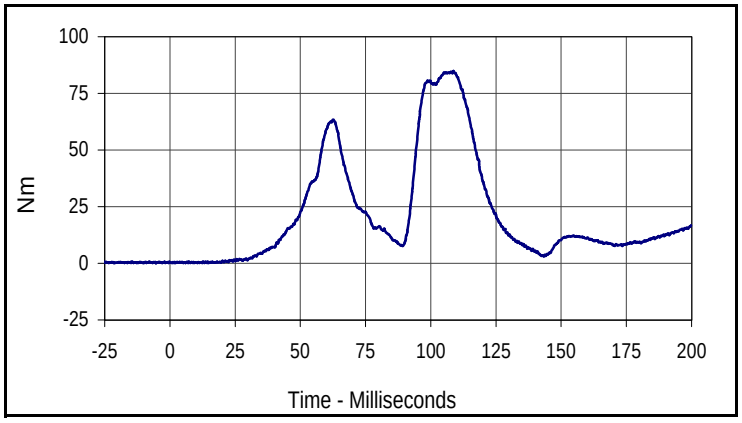
Curve Description			
Center Rear Pass. (50th) Upper Neck Moment X			
CURNO	Type	SAE Class	Units
148	FIL	600	Nm
Max	Time	Min	Time
3.9	97.4	-16.1	115.0



Curve Description			
Center Rear Pass. (50th) Upper Neck Moment Y			
CURNO	Type	SAE Class	Units
149	FIL	600	Nm
Max	Time	Min	Time
83.6	108.7	-63.2	62.6

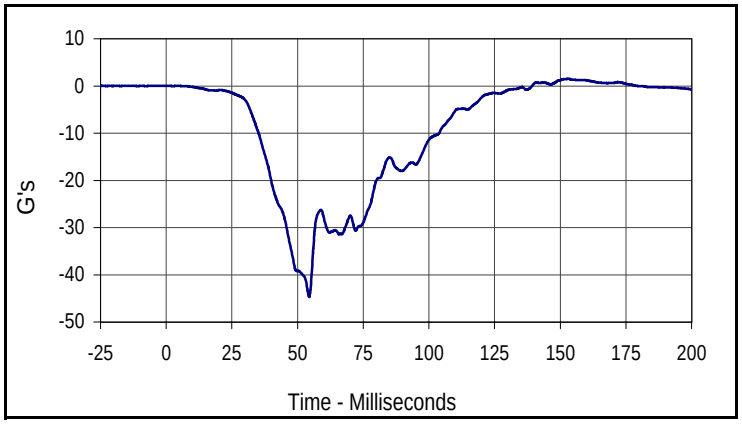


Curve Description			
Center Rear Pass. (50th) Upper Neck Moment Z			
CURNO	Type	SAE Class	Units
150	FIL	600	Nm
Max	Time	Min	Time
9.1	112.2	-4.4	66.1

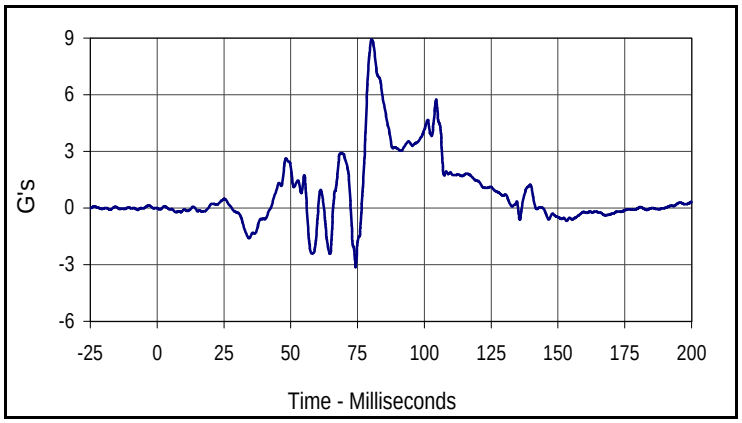


Curve Description			
Center Rear Pass. (50th) Upper Neck Moment Res.			
CURNO	Type	SAE Class	Units
148	RES	600	Nm
Max	Time	Min	Time
84.8	108.7	0.1	7.7

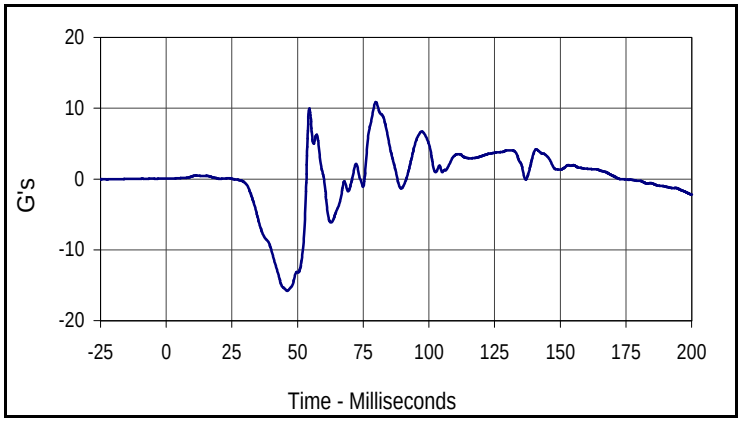
Test Vehicle:	2004 Jeep Liberty 4-Door MPV	Test Date:	9/9/04
Test Program:	2004 FMVSS 208 Upgrade	NHTSA No.:	R40401



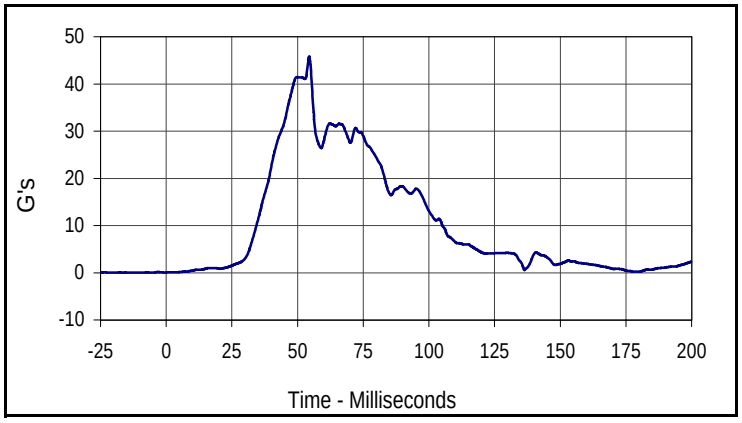
Curve Description			
Center Rear Pass. (50th) Chest Primary X			
CURNO	Type	SAE Class	Units
151	FIL	180	G's
Max	Time	Min	Time
1.5	153.1	-44.7	54.4



Curve Description			
Center Rear Pass. (50th) Chest Primary Y			
CURNO	Type	SAE Class	Units
152	FIL	180	G's
Max	Time	Min	Time
8.9	80.3	-3.1	74.3

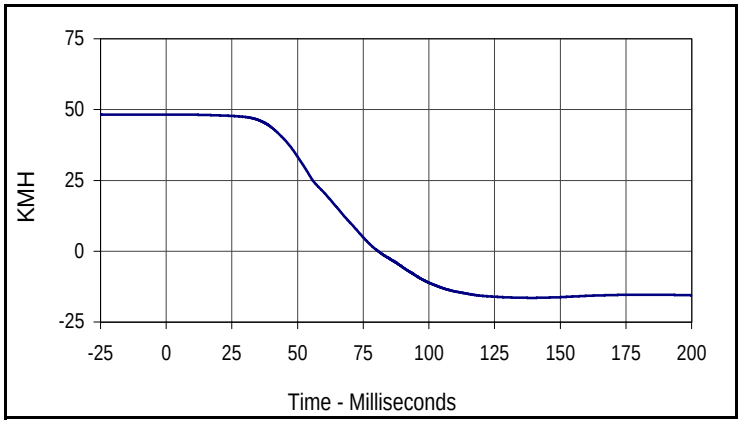


Curve Description			
Center Rear Pass. (50th) Chest Primary Z			
CURNO	Type	SAE Class	Units
153	FIL	180	G's
Max	Time	Min	Time
10.9	79.8	-15.8	46.1

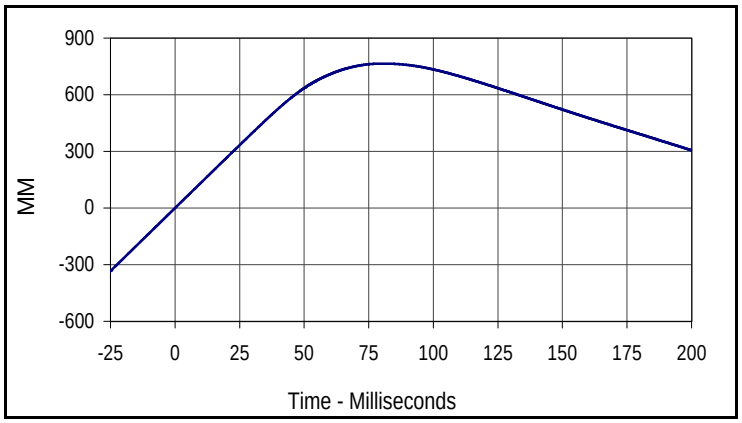


Curve Description			
Center Rear Pass. (50th) Chest Resultant			
CURNO	Type	SAE Class	Units
151	RES	180	G's
Max	Time	Min	Time
45.8	54.4	0.1	0.0

Test Vehicle:	2004 Jeep Liberty 4-Door MPV	Test Date:	9/9/04
Test Program:	2004 FMVSS 208 Upgrade	NHTSA No.:	R40401

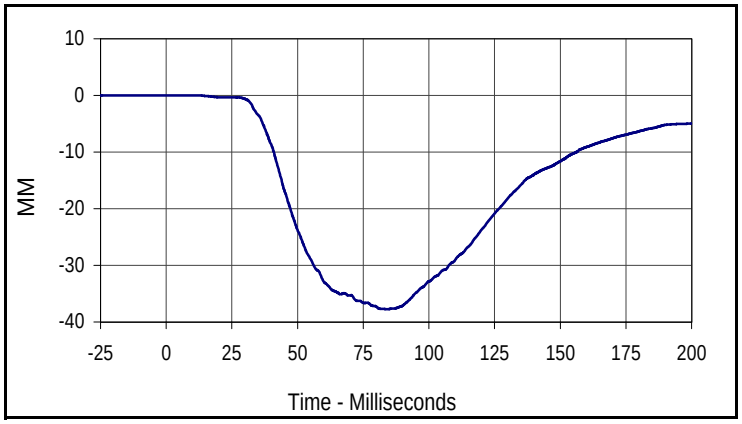


Curve Description			
Center Rear Pass. (50th) Chest Primary X Velocity			
CURNO	Type	SAE Class	Units
151	IN1	180	KMH
Max	Time	Min	Time
48.2	5.5	-16.5	139.3

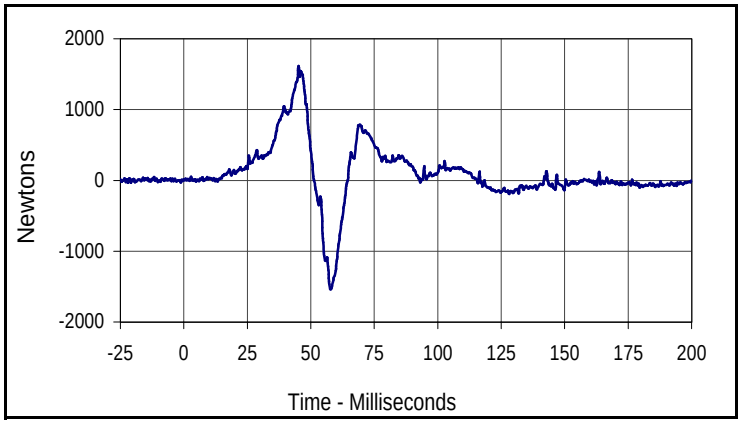


Curve Description			
Center Rear Pass. (50th) Chest Primary X Displacement			
CURNO	Type	SAE Class	Units
151	IN2	180	MM
Max	Time	Min	Time
765.2	80.7	0.1	0.0

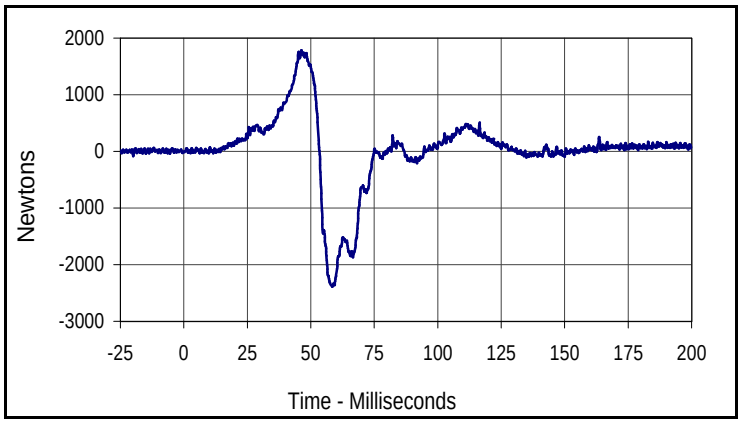
Test Vehicle:	2004 Jeep Liberty 4-Door MPV	Test Date:	9/9/04
Test Program:	2004 FMVSS 208 Upgrade	NHTSA No.:	R40401



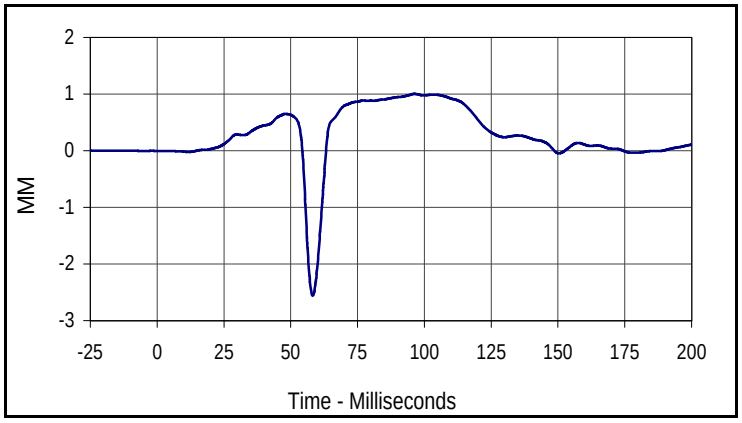
Curve Description			
Center Rear Pass. (50th) Chest Displacement			
CURNO	Type	SAE Class	Units
154	FIL	600	MM
Max	Time	Min	Time
0.0	8.0	-37.8	84.2



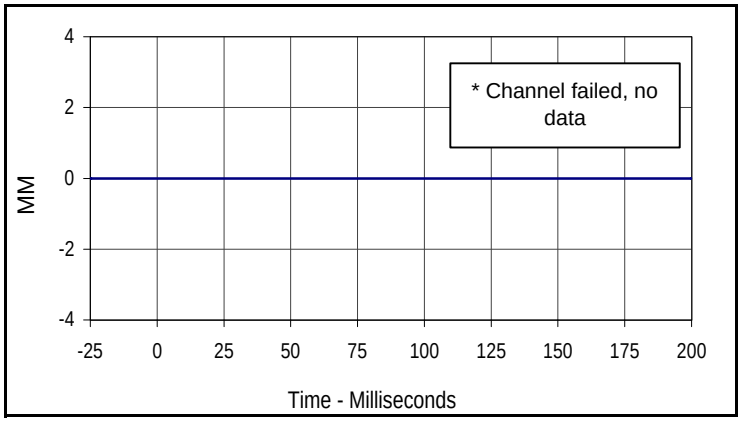
Curve Description			
Center Rear Pass. (50th) Left Femur Force			
CURNO	Type	SAE Class	Units
155	FIL	600	Newtons
Max	Time	Min	Time
1616.5	45.2	-1539.4	57.7



Curve Description			
Center Rear Pass. (50th) Right Femur Force			
CURNO	Type	SAE Class	Units
156	FIL	600	Newtons
Max	Time	Min	Time
1787.0	46.3	-2388.6	58.5



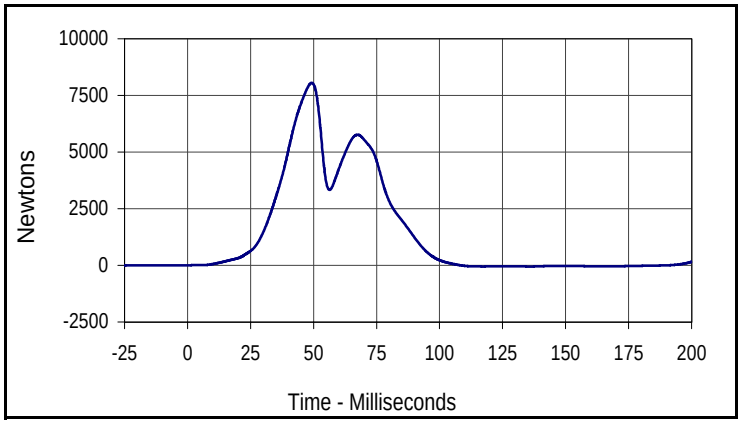
Curve Description			
Center Rear Pass. (50th) Left Knee Displacement			
CURNO	Type	SAE Class	Units
157	FIL	180	MM
Max	Time	Min	Time
1.0	96.6	-2.6	58.6



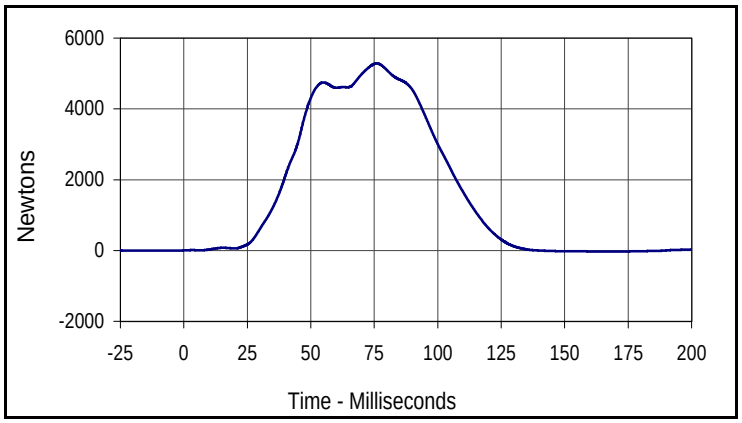
Curve Description			
Center Rear Pass. (50th) Right Knee Displacement			
CURNO	Type	SAE Class	Units
158	FIL	180	MM
Max	Time	Min	Time
0.0	0.0	0.0	0.0

* Channel failed, no data

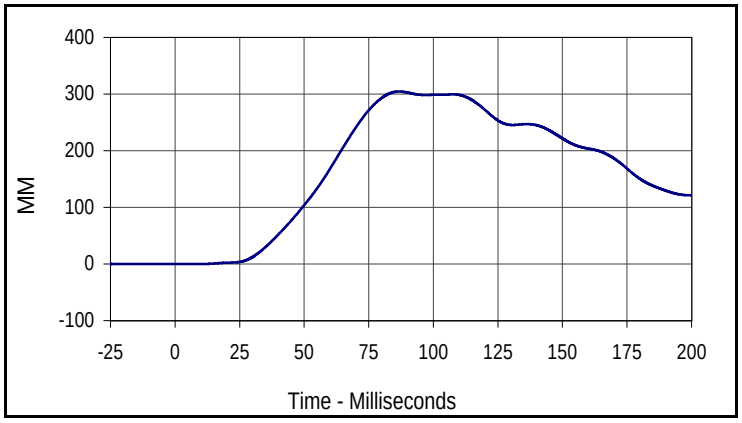
Test Vehicle:	2004 Jeep Liberty 4-Door MPV	Test Date:	9/9/04
Test Program:	2004 FMVSS 208 Upgrade	NHTSA No.:	R40401



Curve Description			
Center Rear Pass. (50th) Lap Belt Force			
CURNO	Type	SAE Class	Units
159	FIL	60	Newtons
Max	Time	Min	Time
8057.4	49.3	-52.8	135.9

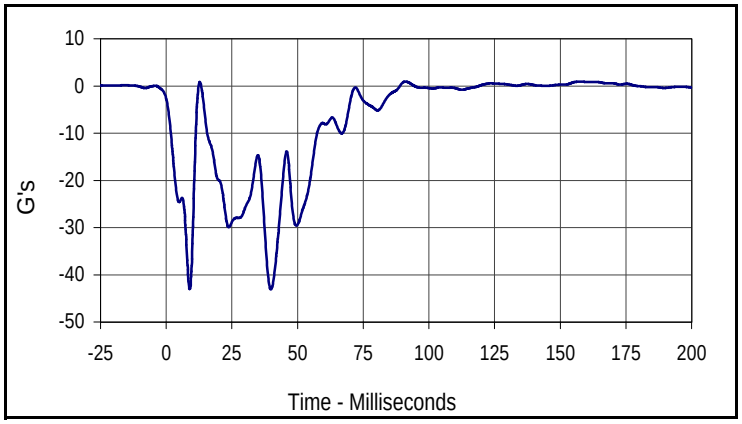


Curve Description			
Center Rear Pass. (50th) Shoulder Belt Force			
CURNO	Type	SAE Class	Units
160	FIL	60	Newtons
Max	Time	Min	Time
5285.0	76.0	-29.5	160.9

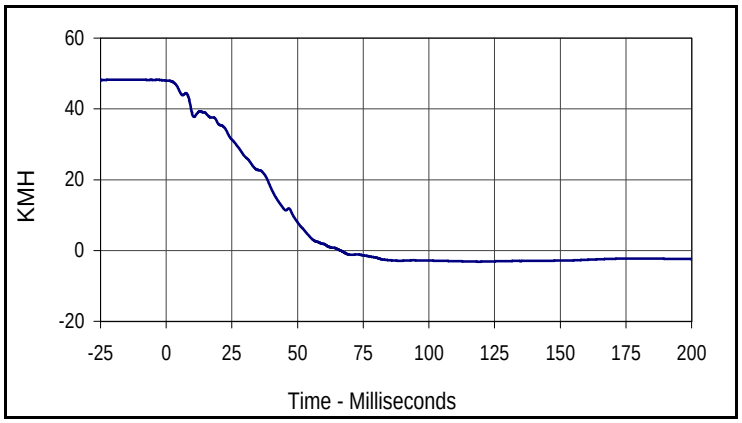


Curve Description			
Center Rear Pass. (50th) Shoulder Belt Pullout			
CURNO	Type	SAE Class	Units
161	FIL	60	MM
Max	Time	Min	Time
304.5	86.8	0.0	3.5

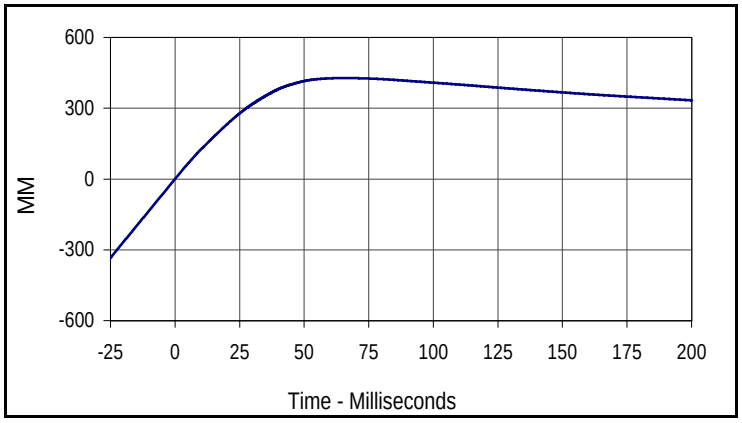
Test Vehicle:	2004 Jeep Liberty 4-Door MPV	Test Date:	9/9/04
Test Program:	2004 FMVSS 208 Upgrade	NHTSA No.:	R40401



Curve Description			
Vehicle Left Rear X			
CURNO	Type	SAE Class	Units
162	FIL	60	G's
Max	Time	Min	Time
0.9	91.1	-43.1	39.9

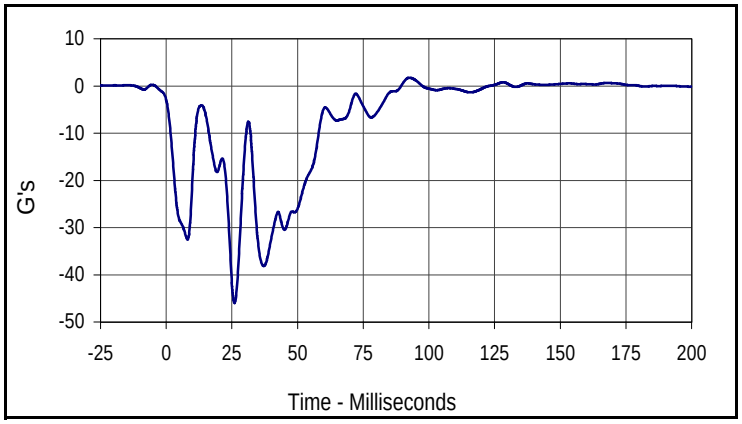


Curve Description			
Vehicle Left Rear X Velocity			
CURNO	Type	SAE Class	Units
162	IN1	180	KMH
Max	Time	Min	Time
48.0	0.0	-3.1	118.9

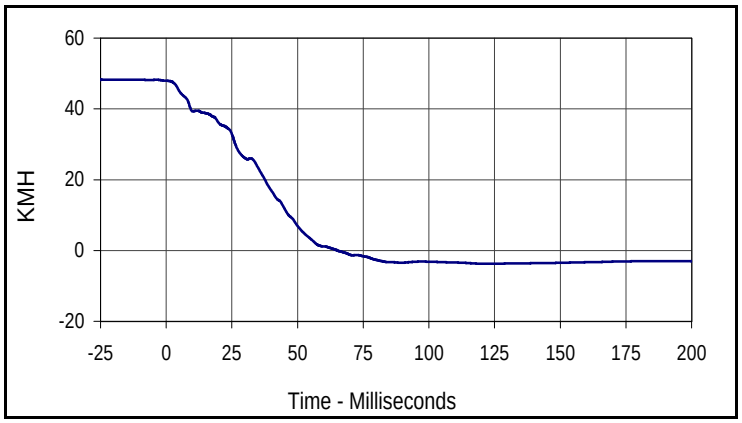


Curve Description			
Vehicle Left Rear X Displacement			
CURNO	Type	SAE Class	Units
162	IN2	180	MM
Max	Time	Min	Time
428.2	66.3	0.2	0.0

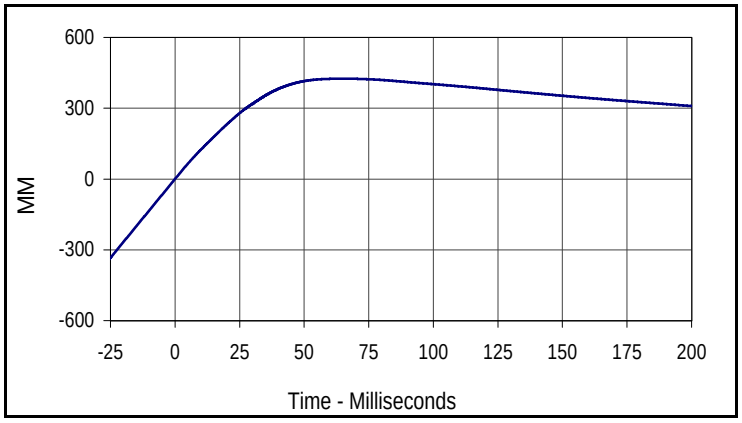
Test Vehicle:	2004 Jeep Liberty 4-Door MPV	Test Date:	9/9/04
Test Program:	2004 FMVSS 208 Upgrade	NHTSA No.:	R40401



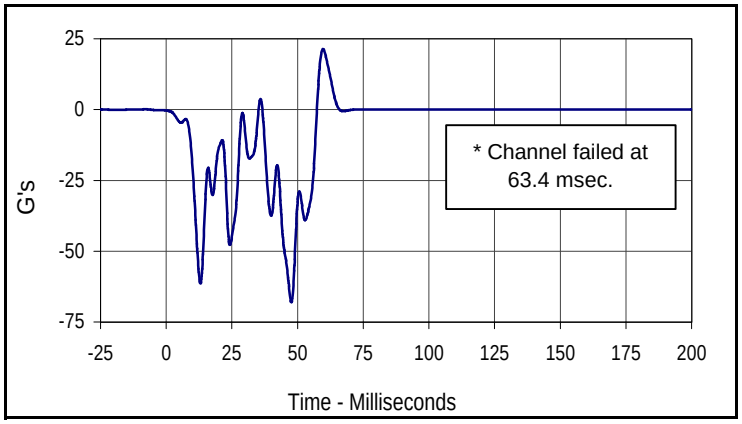
Curve Description			
Vehicle Right Rear X			
CURNO	Type	SAE Class	Units
163	FIL	60	G's
Max	Time	Min	Time
1.8	92.6	-46.0	26.0



Curve Description			
Vehicle Right Rear X Velocity			
CURNO	Type	SAE Class	Units
163	IN1	180	KMH
Max	Time	Min	Time
48.0	0.0	-3.8	121.9

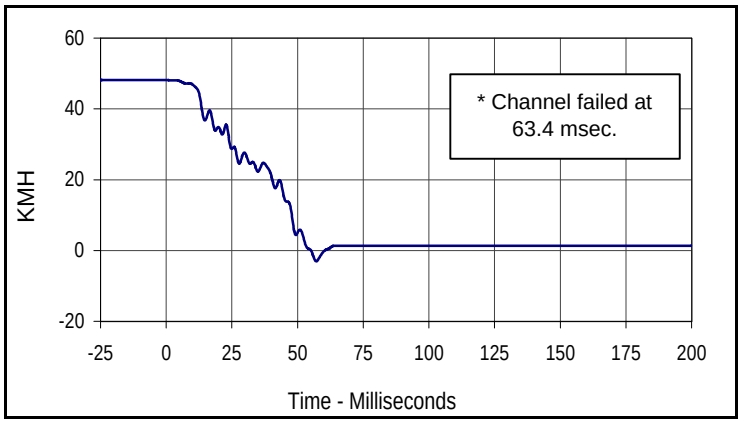


Curve Description			
Vehicle Right Rear X Displacement			
CURNO	Type	SAE Class	Units
163	IN2	180	MM
Max	Time	Min	Time
425.4	65.1	0.2	0.0



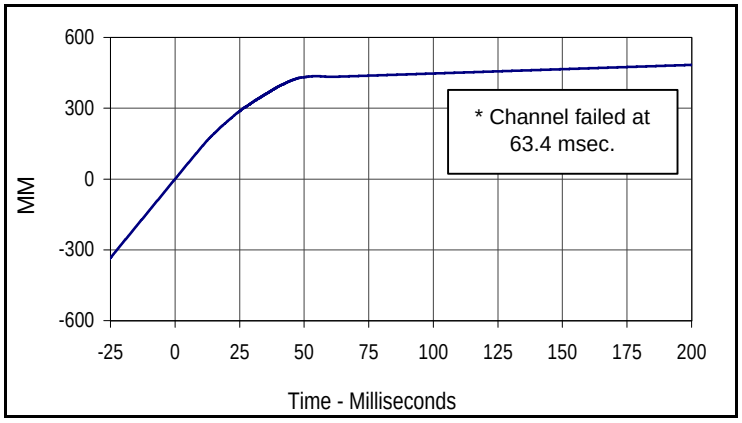
Curve Description			
Vehicle Left Brake Caliper X			
CURNO	Type	SAE Class	Units
164	FIL	60	G's
Max	Time	Min	Time
21.4	59.7	-68.0	47.6

* Channel failed at 63.4 msec.



Curve Description			
Vehicle Left Brake Caliper X Velocity			
CURNO	Type	SAE Class	Units
164	IN1	180	KMH
Max	Time	Min	Time
48.1	0.0	-3.0	57.1

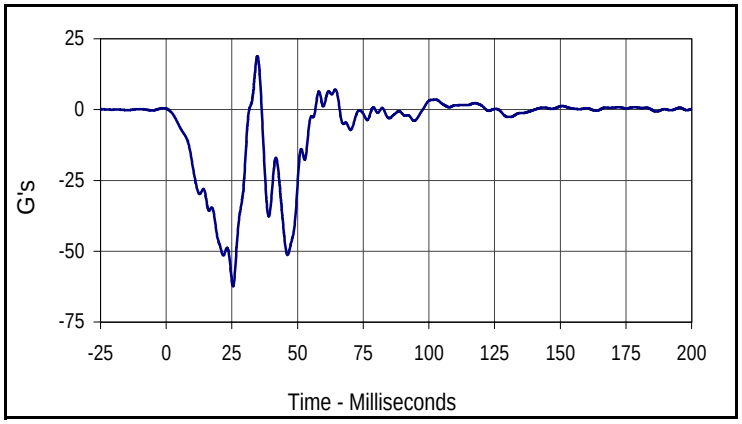
* Channel failed at 63.4 msec.



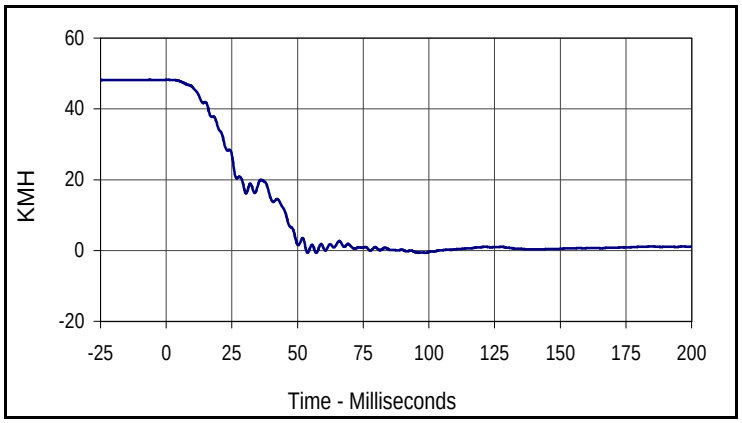
Curve Description			
Vehicle Left Brake Caliper X Displacement			
CURNO	Type	SAE Class	Units
164	IN2	180	MM
Max	Time	Min	Time
483.7	200.0	-0.1	0.0

* Channel failed at 63.4 msec.

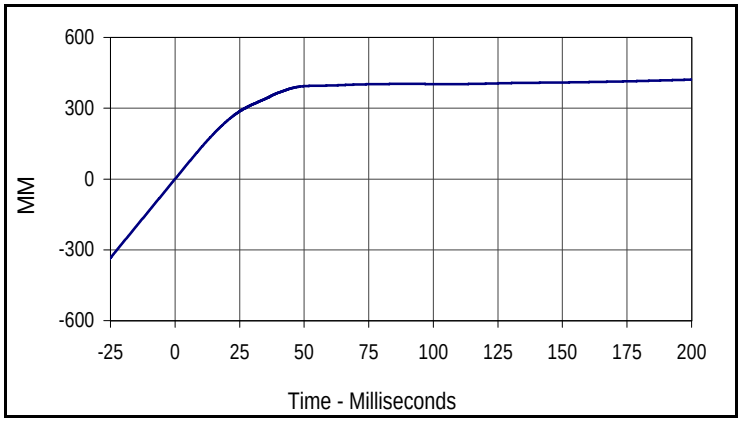
Test Vehicle:	2004 Jeep Liberty 4-Door MPV	Test Date:	9/9/04
Test Program:	2004 FMVSS 208 Upgrade	NHTSA No.:	R40401



Curve Description			
Vehicle Right Brake Caliper X			
CURNO	Type	SAE Class	Units
165	FIL	60	G's
Max	Time	Min	Time
18.8	34.7	-62.3	25.4

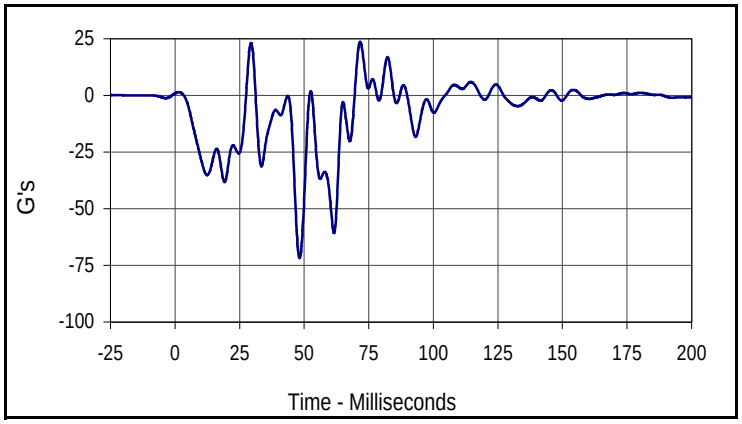


Curve Description			
Vehicle Right Brake Caliper X Velocity			
CURNO	Type	SAE Class	Units
165	IN1	180	KMH
Max	Time	Min	Time
48.2	0.6	-0.7	57.1

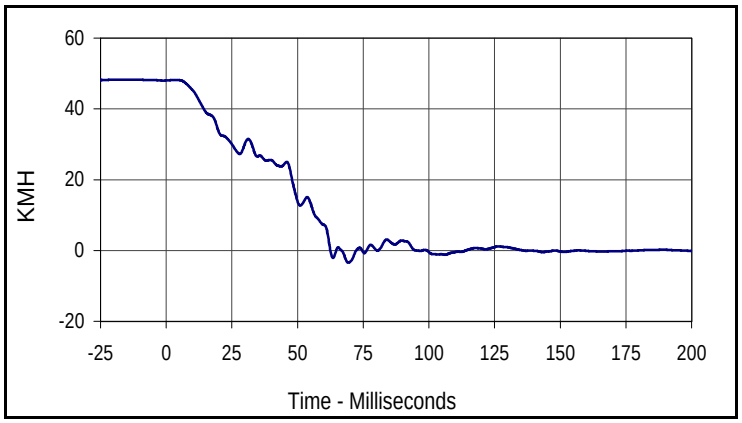


Curve Description			
Vehicle Right Brake Caliper X Displacement			
CURNO	Type	SAE Class	Units
165	IN2	180	MM
Max	Time	Min	Time
421.2	200.0	0.0	0.0

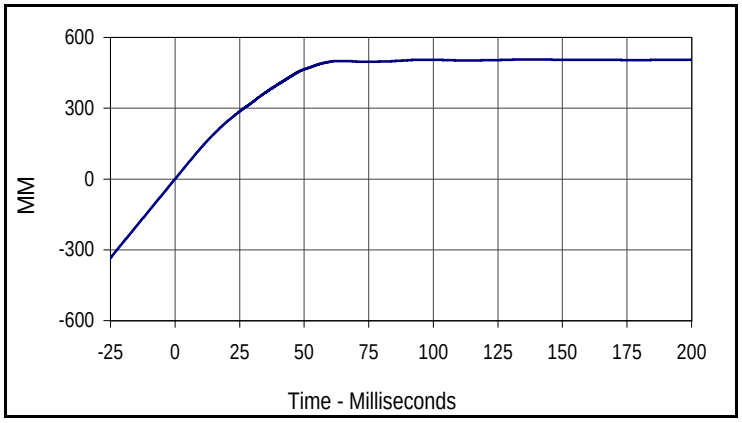
Test Vehicle:	2004 Jeep Liberty 4-Door MPV	Test Date:	9/9/04
Test Program:	2004 FMVSS 208 Upgrade	NHTSA No.:	R40401



Curve Description			
Vehicle Instrument Panel X			
CURNO	Type	SAE Class	Units
166	FIL	60	G's
Max	Time	Min	Time
23.7	71.7	-71.7	48.2

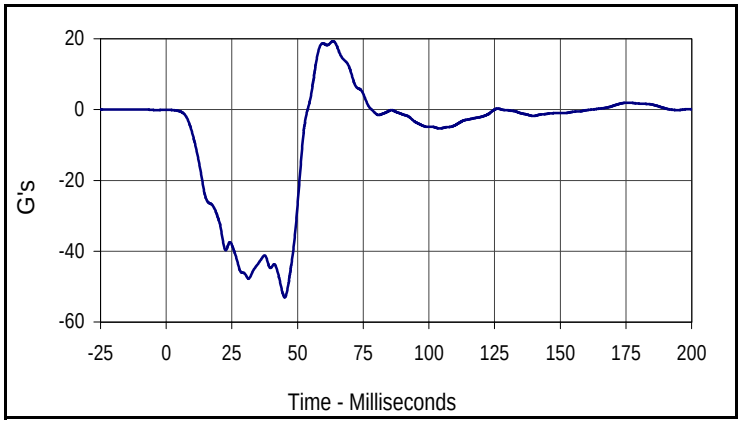


Curve Description			
Vehicle Instrument Panel X Velocity			
CURNO	Type	SAE Class	Units
166	IN1	180	KMH
Max	Time	Min	Time
48.2	3.3	-3.4	69.3

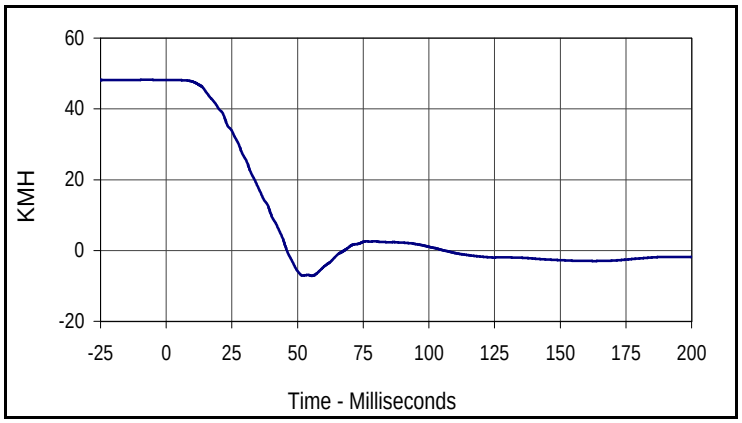


Curve Description			
Vehicle Instrument Panel X Displacement			
CURNO	Type	SAE Class	Units
166	IN2	180	MM
Max	Time	Min	Time
506.3	136.0	0.0	0.0

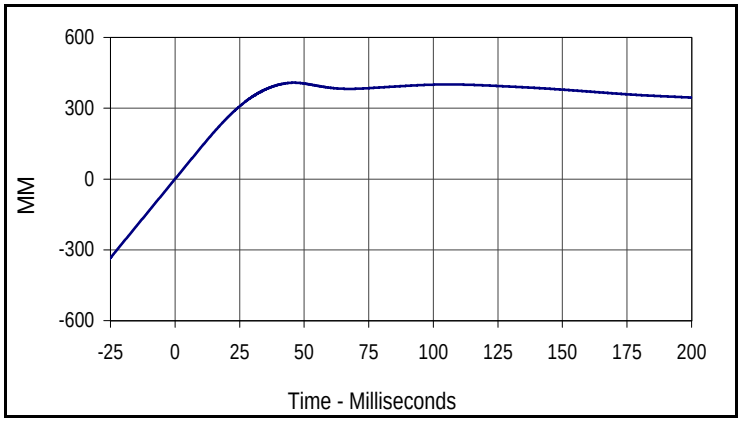
Test Vehicle:	2004 Jeep Liberty 4-Door MPV	Test Date:	9/9/04
Test Program:	2004 FMVSS 208 Upgrade	NHTSA No.:	R40401



Curve Description			
Vehicle Engine Top X			
CURNO	Type	SAE Class	Units
167	FIL	60	G's
Max	Time	Min	Time
19.3	63.5	-53.0	45.1

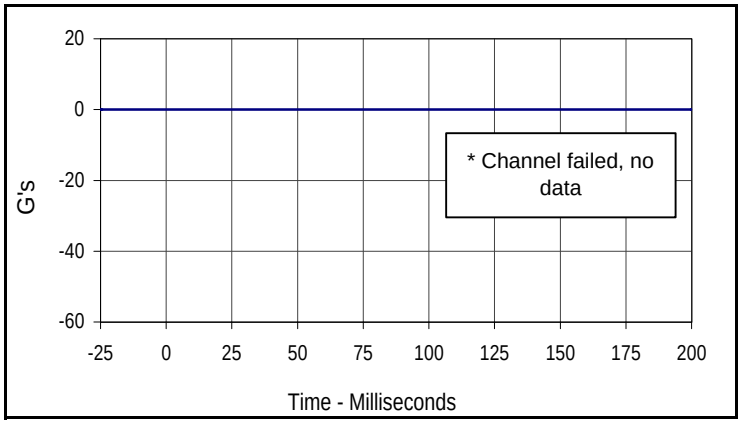


Curve Description			
Vehicle Engine Top X Velocity			
CURNO	Type	SAE Class	Units
167	IN1	180	KMH
Max	Time	Min	Time
48.2	1.4	-7.2	55.4



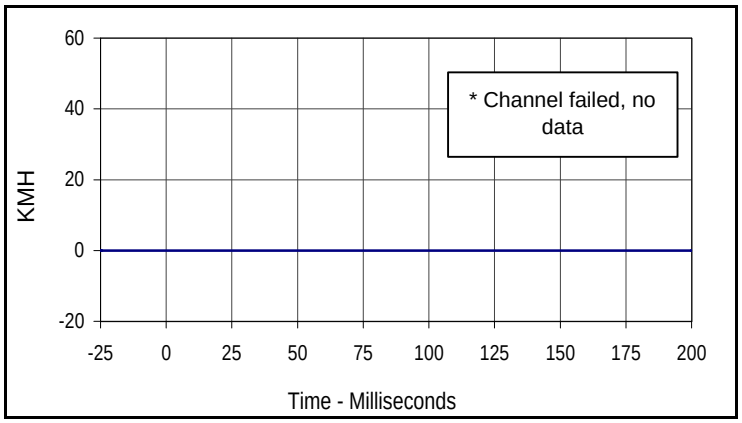
Curve Description			
Vehicle Engine Top X Displacement			
CURNO	Type	SAE Class	Units
167	IN2	180	MM
Max	Time	Min	Time
408.3	45.9	0.1	0.0

Test Vehicle:	2004 Jeep Liberty 4-Door MPV	Test Date:	9/9/04
Test Program:	2004 FMVSS 208 Upgrade	NHTSA No.:	R40401



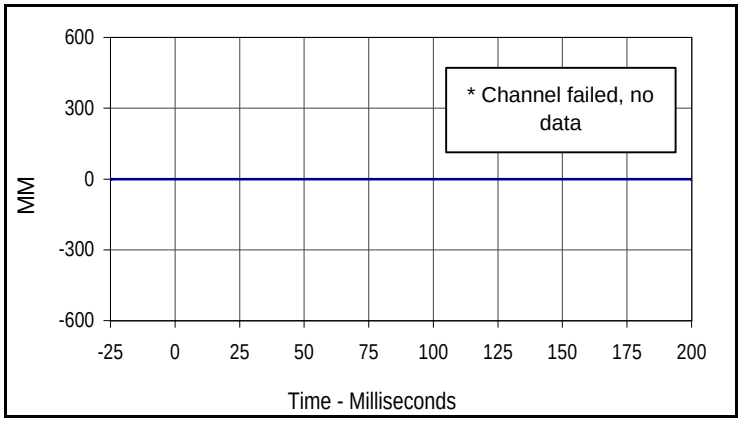
Curve Description			
Vehicle Engine Bottom X			
CURNO	Type	SAE Class	Units
168	FIL	60	G's
Max	Time	Min	Time
0.0	0.0	0.0	0.0

* Channel failed, no data



Curve Description			
Vehicle Engine Bottom X Velocity			
CURNO	Type	SAE Class	Units
168	IN1	180	KMH
Max	Time	Min	Time
0.0	0.0	0.0	0.0

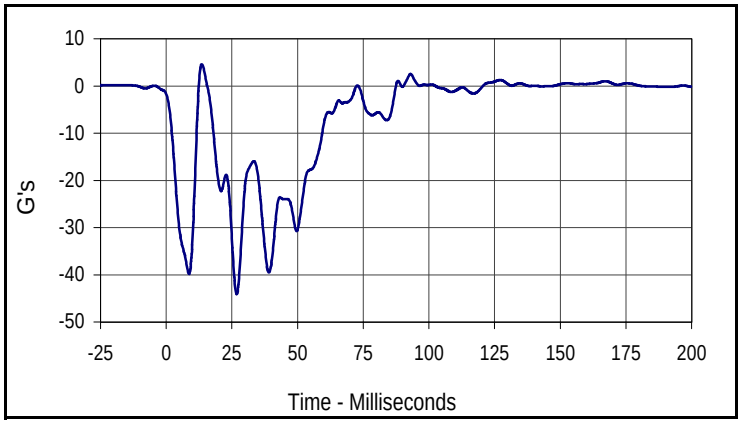
* Channel failed, no data



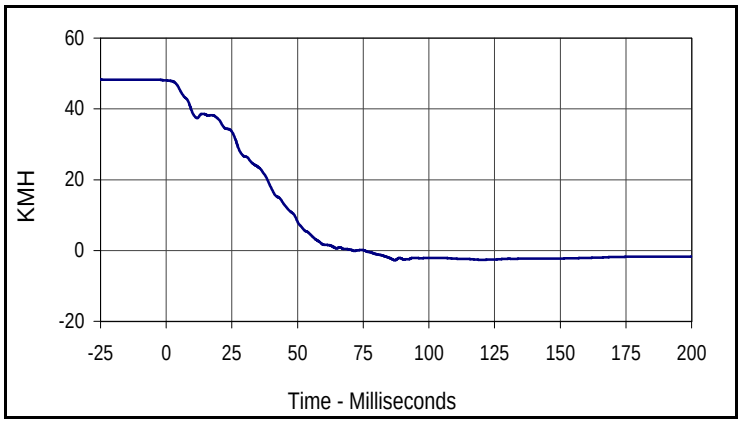
Curve Description			
Vehicle Engine Bottom X Displacement			
CURNO	Type	SAE Class	Units
168	IN2	180	MM
Max	Time	Min	Time
0.0	0.0	0.0	0.0

* Channel failed, no data

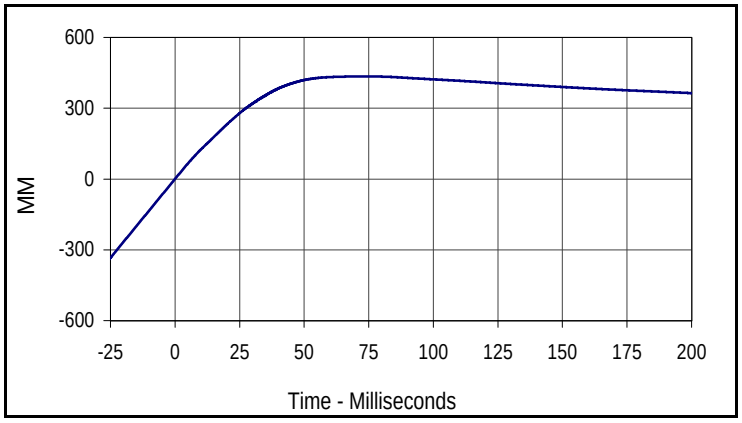
Test Vehicle:	2004 Jeep Liberty 4-Door MPV	Test Date:	9/9/04
Test Program:	2004 FMVSS 208 Upgrade	NHTSA No.:	R40401



Curve Description			
Vehicle Rear Center Compartment X			
CURNO	Type	SAE Class	Units
169	FIL	60	G's
Max	Time	Min	Time
4.6	13.6	-44.1	26.8

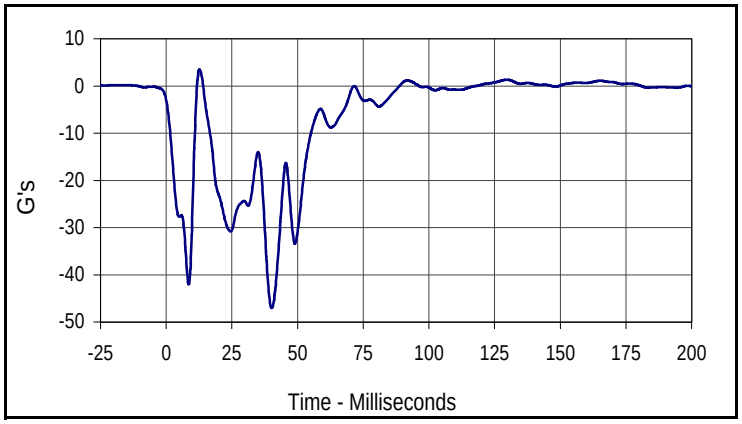


Curve Description			
Vehicle Rear Center Compartment X Velocity			
CURNO	Type	SAE Class	Units
169	IN1	180	KMH
Max	Time	Min	Time
48.0	0.0	-2.7	87.0

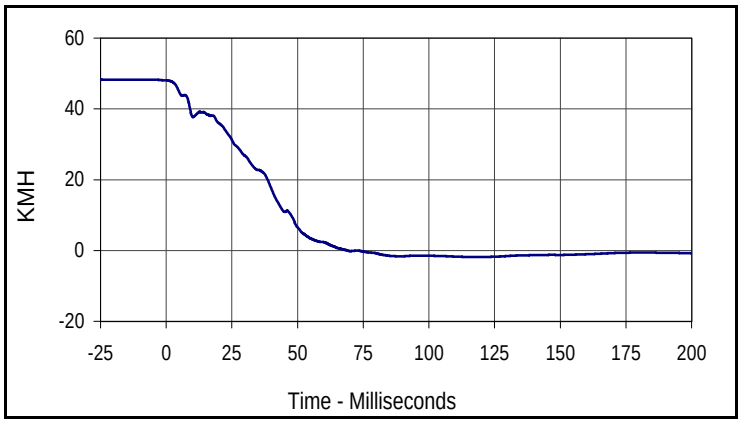


Curve Description			
Vehicle Rear Center Compartment X Displacement			
CURNO	Type	SAE Class	Units
169	IN2	180	MM
Max	Time	Min	Time
434.6	75.5	0.4	0.0

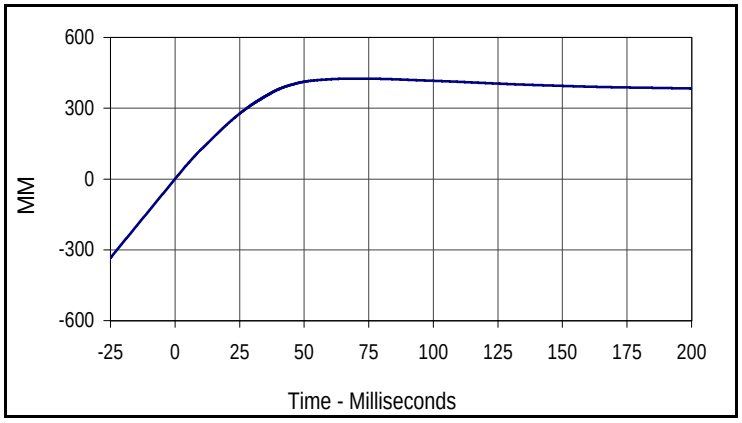
Test Vehicle:	2004 Jeep Liberty 4-Door MPV	Test Date:	9/9/04
Test Program:	2004 FMVSS 208 Upgrade	NHTSA No.:	R40401



Curve Description			
Vehicle Toe Pan Accelerator X			
CURNO	Type	SAE Class	Units
170	FIL	60	G's
Max	Time	Min	Time
3.6	12.6	-47.0	40.2

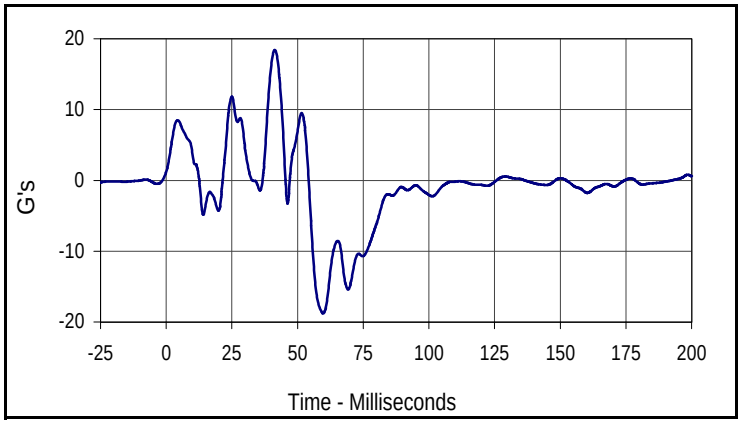


Curve Description			
Vehicle Toe Pan Accelerator X Velocity			
CURNO	Type	SAE Class	Units
170	IN1	180	KMH
Max	Time	Min	Time
48.1	0.0	-1.9	119.5

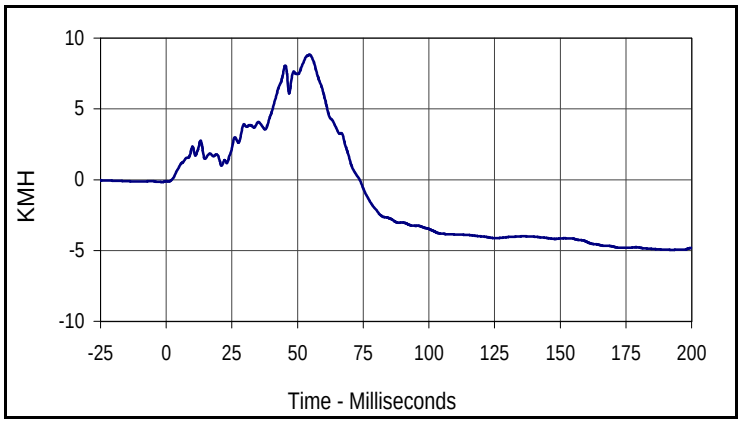


Curve Description			
Vehicle Toe Pan Accelerator X Displacement			
CURNO	Type	SAE Class	Units
170	IN2	180	MM
Max	Time	Min	Time
425.3	68.9	0.3	0.0

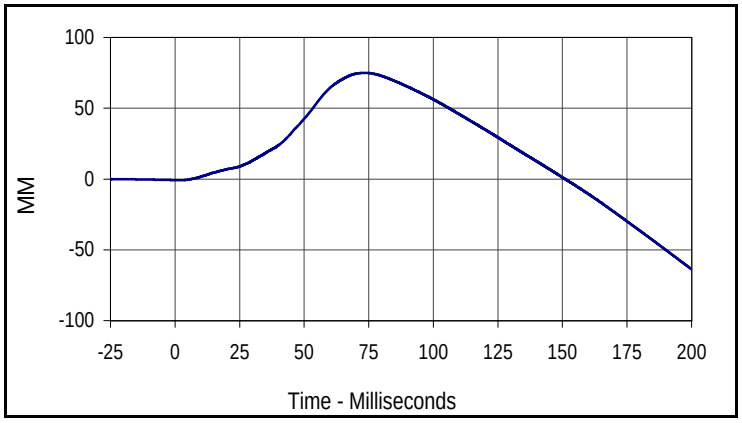
Test Vehicle:	2004 Jeep Liberty 4-Door MPV	Test Date:	9/9/04
Test Program:	2004 FMVSS 208 Upgrade	NHTSA No.:	R40401



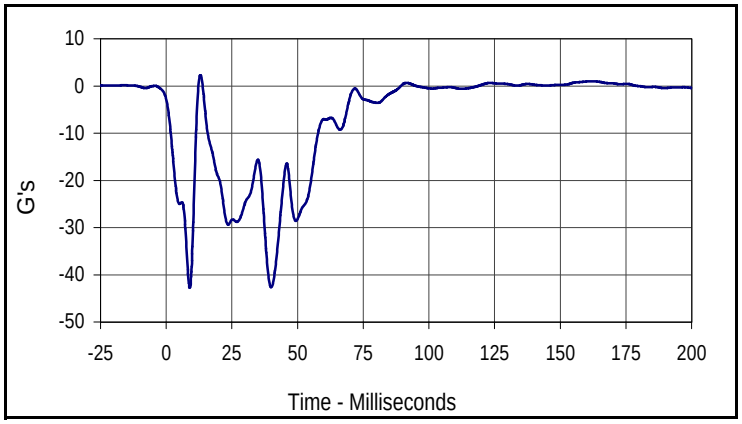
Curve Description			
Vehicle Toe Pan Accelerator Z			
CURNO	Type	SAE Class	Units
171	FIL	60	G's
Max	Time	Min	Time
18.4	41.3	-18.8	59.8



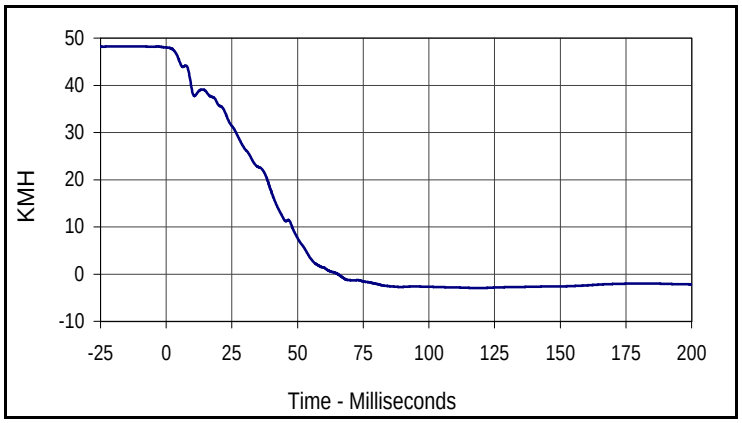
Curve Description			
Vehicle Toe Pan Accelerator Z Velocity			
CURNO	Type	SAE Class	Units
171	IN1	180	KMH
Max	Time	Min	Time
8.8	54.6	-5.0	192.8



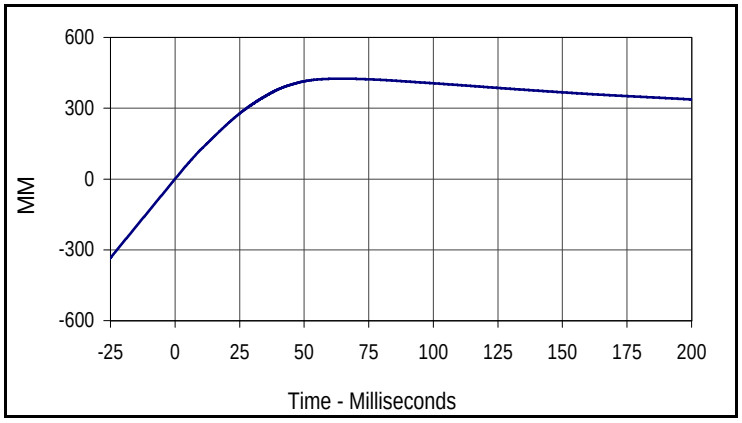
Curve Description			
Vehicle Toe Pan Accelerator Z Displacement			
CURNO	Type	SAE Class	Units
171	IN2	180	MM
Max	Time	Min	Time
75.0	73.6	-63.7	200.0



Curve Description			
Vehicle Toe Pan Foot Rest X			
CURNO	Type	SAE Class	Units
172	FIL	60	G's
Max	Time	Min	Time
2.3	13.0	-42.7	9.0

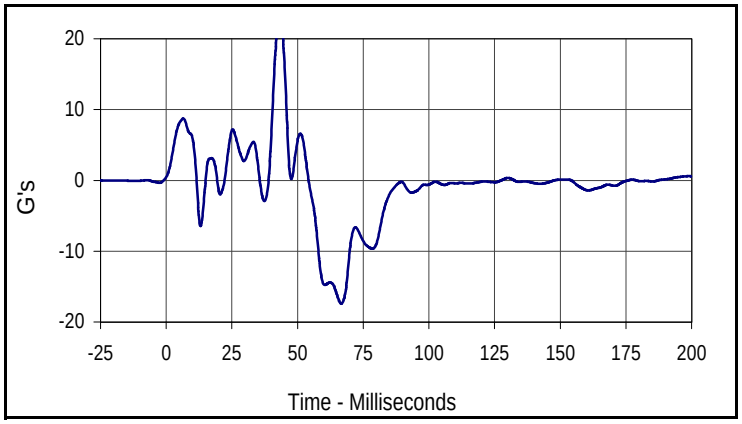


Curve Description			
Vehicle Toe Pan Foot Rest X Velocity			
CURNO	Type	SAE Class	Units
172	IN1	180	KMH
Max	Time	Min	Time
48.0	0.0	-2.9	118.8



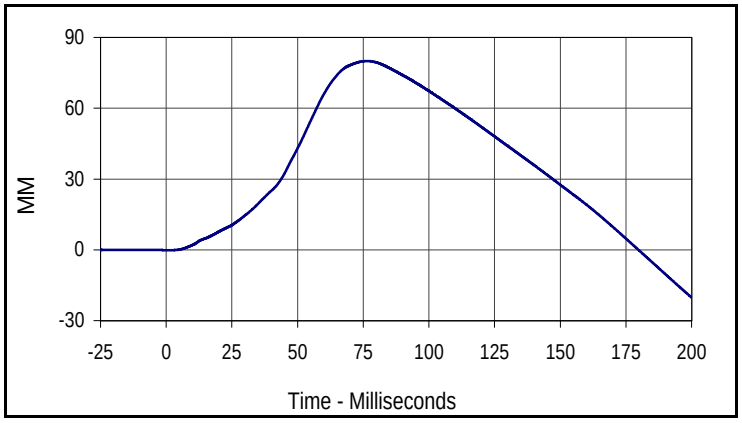
Curve Description			
Vehicle Toe Pan Foot Rest X Displacement			
CURNO	Type	SAE Class	Units
172	IN2	180	MM
Max	Time	Min	Time
425.5	65.2	0.2	0.0

Test Vehicle:	2004 Jeep Liberty 4-Door MPV	Test Date:	9/9/04
Test Program:	2004 FMVSS 208 Upgrade	NHTSA No.:	R40401



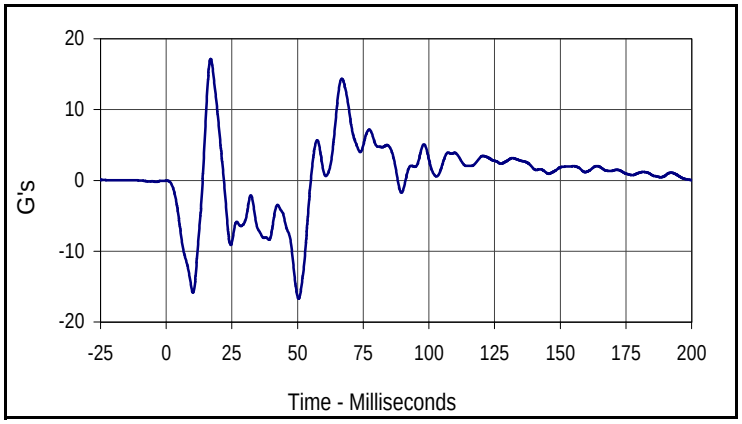
Curve Description			
Vehicle Toe Pan Foot Rest Z			
CURNO	Type	SAE Class	Units
173	FIL	60	G's
Max	Time	Min	Time
22.9	43.2	-17.4	66.6

Curve Description			
Vehicle Toe Pan Foot Rest Z Velocity			
CURNO	Type	SAE Class	Units
173	IN1	180	KMH
Max	Time	Min	Time
8.7	53.4	-3.7	186.4

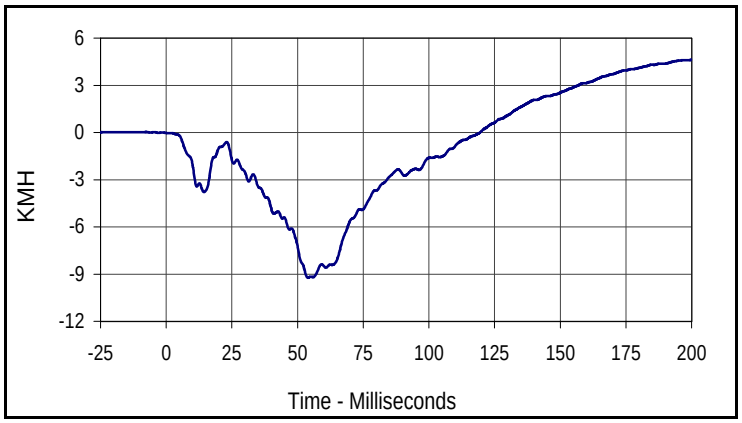


Curve Description			
Vehicle Toe Pan Foot Rest Z Displacement			
CURNO	Type	SAE Class	Units
173	IN2	180	MM
Max	Time	Min	Time
80.0	76.4	-20.2	200.0

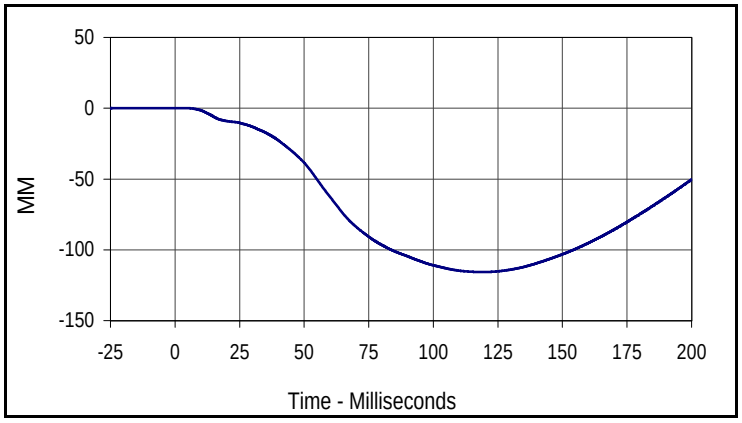
Test Vehicle:	2004 Jeep Liberty 4-Door MPV	Test Date:	9/9/04
Test Program:	2004 FMVSS 208 Upgrade	NHTSA No.:	R40401



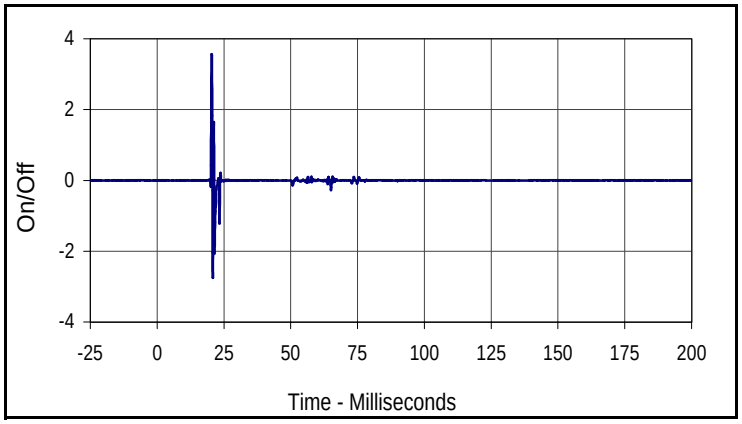
Curve Description			
Vehicle Rear Deck Z			
CURNO	Type	SAE Class	Units
174	FIL	60	G's
Max	Time	Min	Time
17.1	16.9	-16.7	50.4



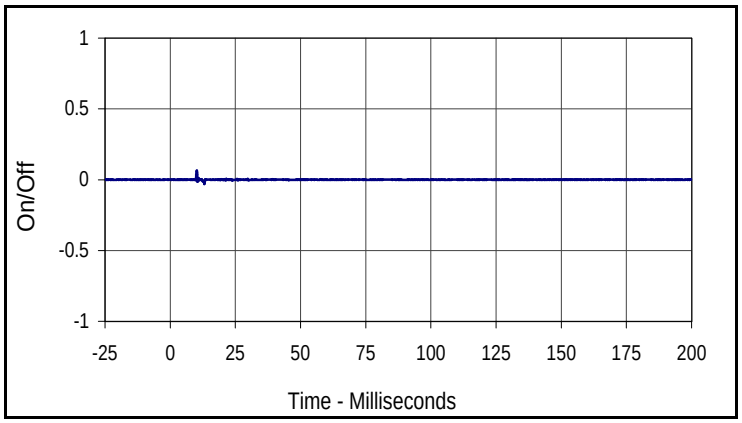
Curve Description			
Vehicle Rear Deck Z Velocity			
CURNO	Type	SAE Class	Units
174	IN1	180	KMH
Max	Time	Min	Time
4.6	200.0	-9.2	53.9



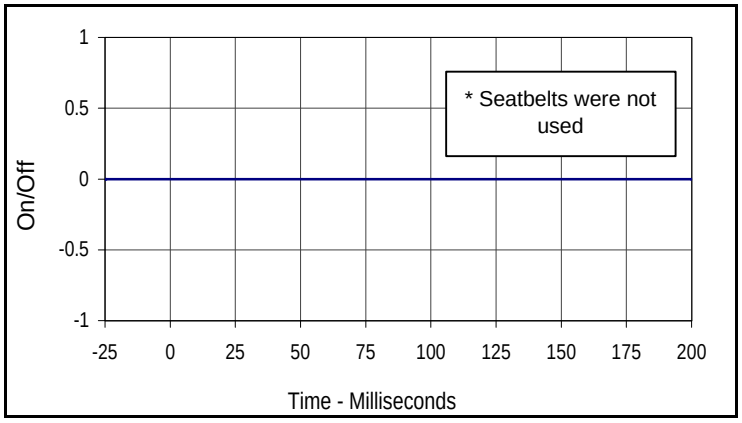
Curve Description			
Vehicle Rear Deck Z Displacement			
CURNO	Type	SAE Class	Units
174	IN2	180	MM
Max	Time	Min	Time
0.1	0.0	-115.7	119.5



Curve Description			
Driver Airbag Squib Stage 1			
CURNO	Type	SAE Class	Units
175	FIL	1000	On/Off
Max	Time	Min	Time
3.6	20.4	-2.7	20.9

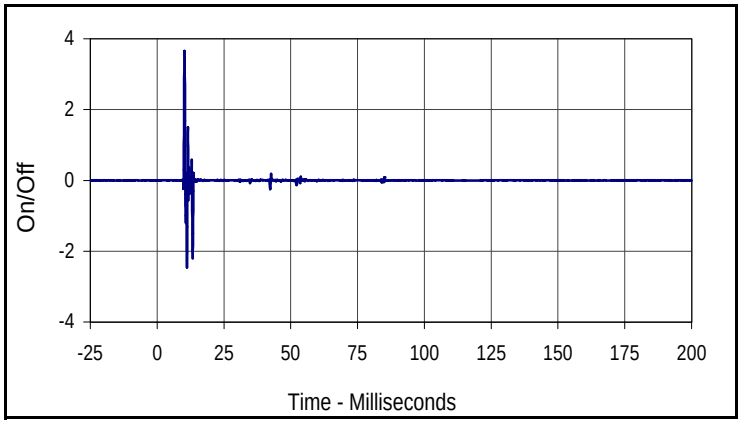


Curve Description			
Driver Airbag Squib Stage 2			
CURNO	Type	SAE Class	Units
176	FIL	1000	On/Off
Max	Time	Min	Time
0.1	10.2	0.0	13.1

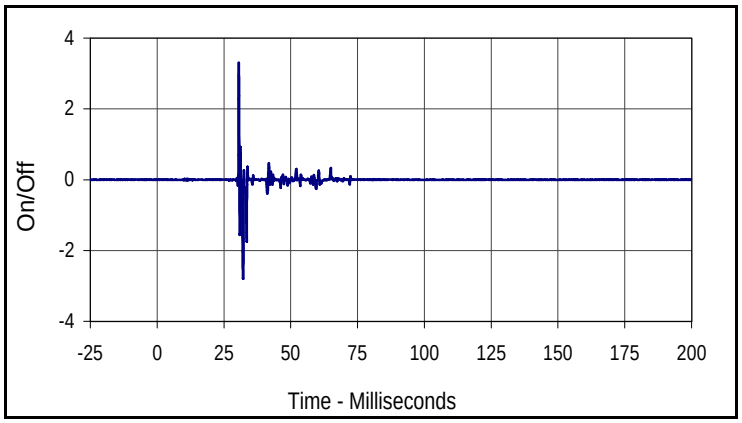


Curve Description			
Driver Pretensioner Squib			
CURNO	Type	SAE Class	Units
177	FIL	1000	On/Off
Max	Time	Min	Time
0.0	0.0	0.0	0.0

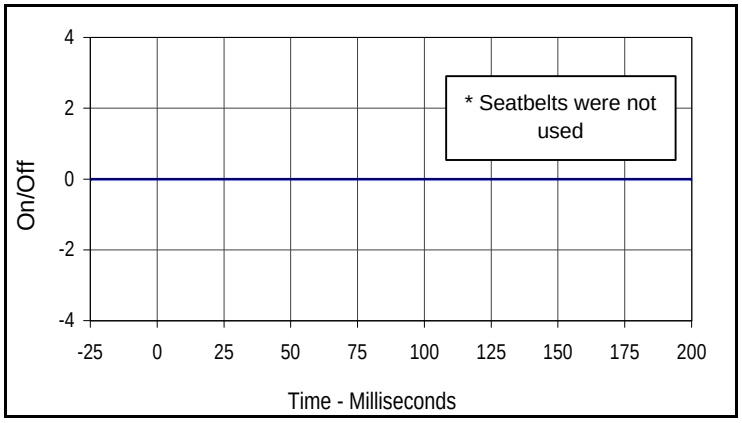
* Seatbelts were not used



Curve Description			
Pass. Airbag Squib Stage 1			
CURNO	Type	SAE Class	Units
178	FIL	1000	On/Off
Max	Time	Min	Time
3.6	10.2	-2.5	11.2



Curve Description			
Pass. Airbag Squib Stage 2			
CURNO	Type	SAE Class	Units
179	FIL	1000	On/Off
Max	Time	Min	Time
3.3	30.6	-2.8	32.2



Curve Description			
Pass. Pretensioner Squib			
CURNO	Type	SAE Class	Units
180	FIL	1000	On/Off
Max	Time	Min	Time
0.0	0.0	0.0	0.0

* Seatbelts were not used