

MDB Instrumentation Plots

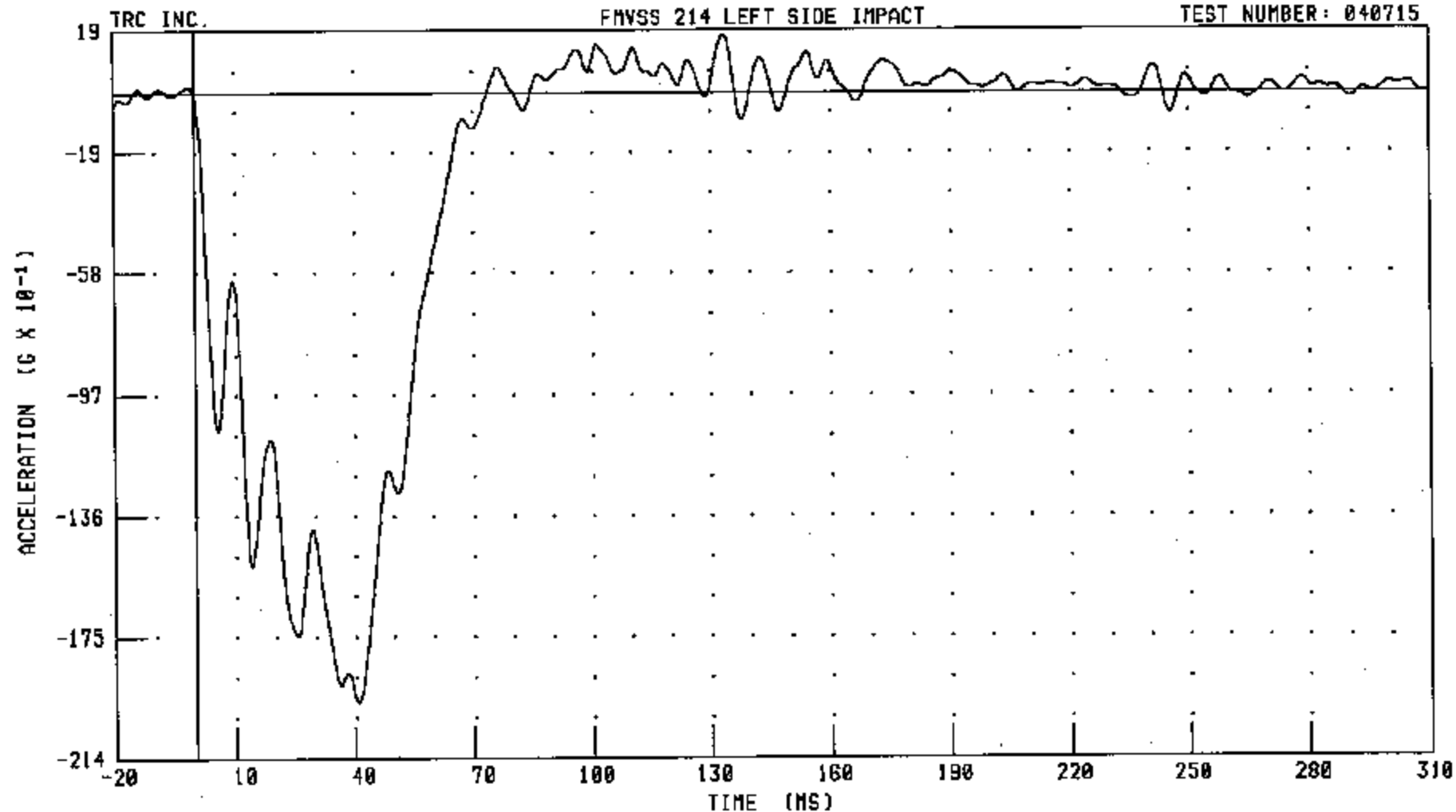
Acceleration Data - Filter Class 60

Integration Data - Filter Class 180

48/24 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2004 MAZDA 3
MDB CENTER OF GRAVITY X-AXIS ACCELERATION

FMVSS 214 LEFT SIDE IMPACT

TEST NUMBER: 040715



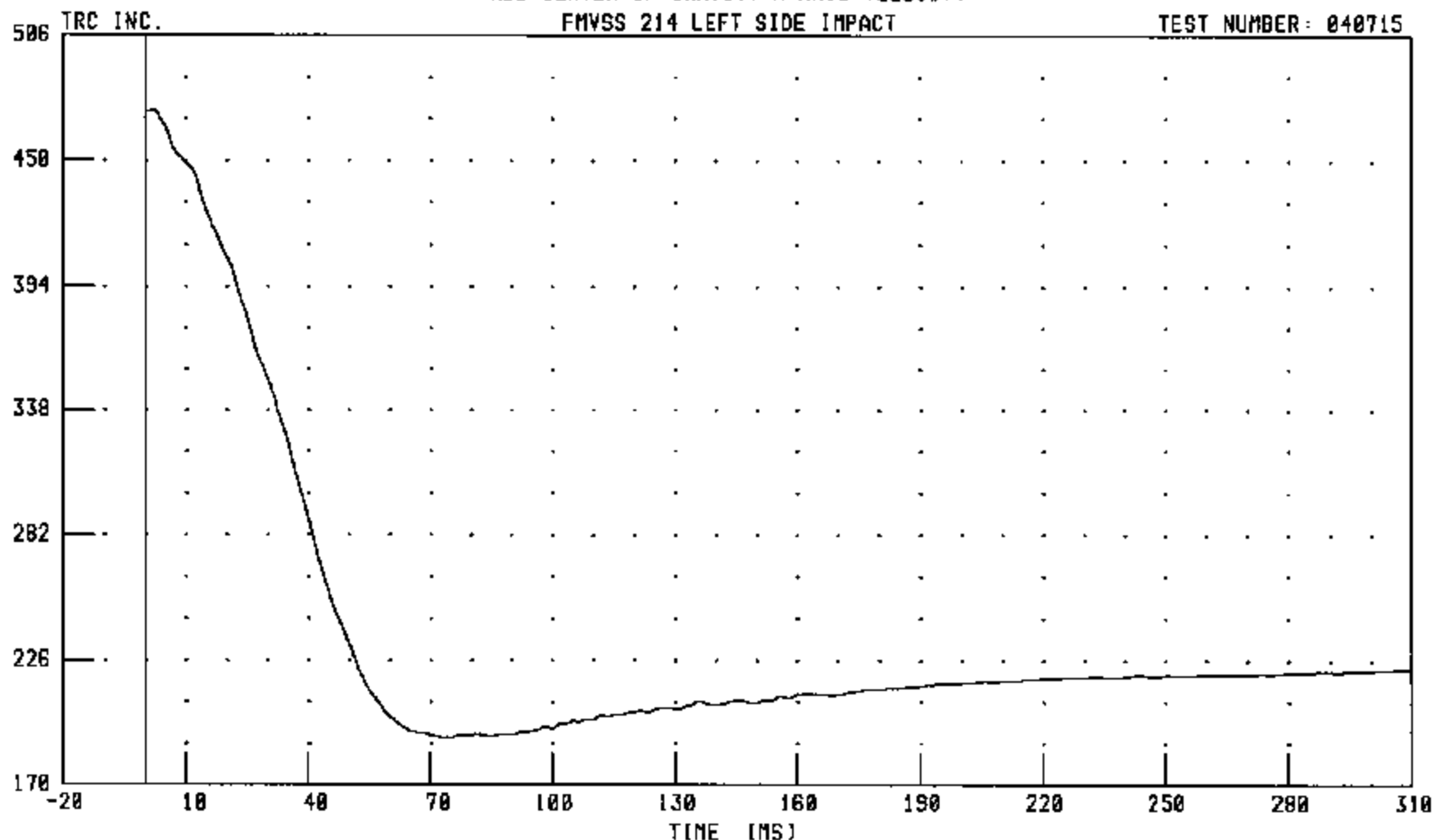
B-93

040715-1

48/24 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2004 MAZDA 3
MDB CENTER OF GRAVITY X-AXIS VELOCITY

FMVSS 214 LEFT SIDE IMPACT

TEST NUMBER: 040715



CHANNEL: BCGXV1 FILTER: CH. CLASS 180

PEAK DATA: 47.23 KM/H @ 1.84 MS, 19.14 KM/H @ 75.04 MS

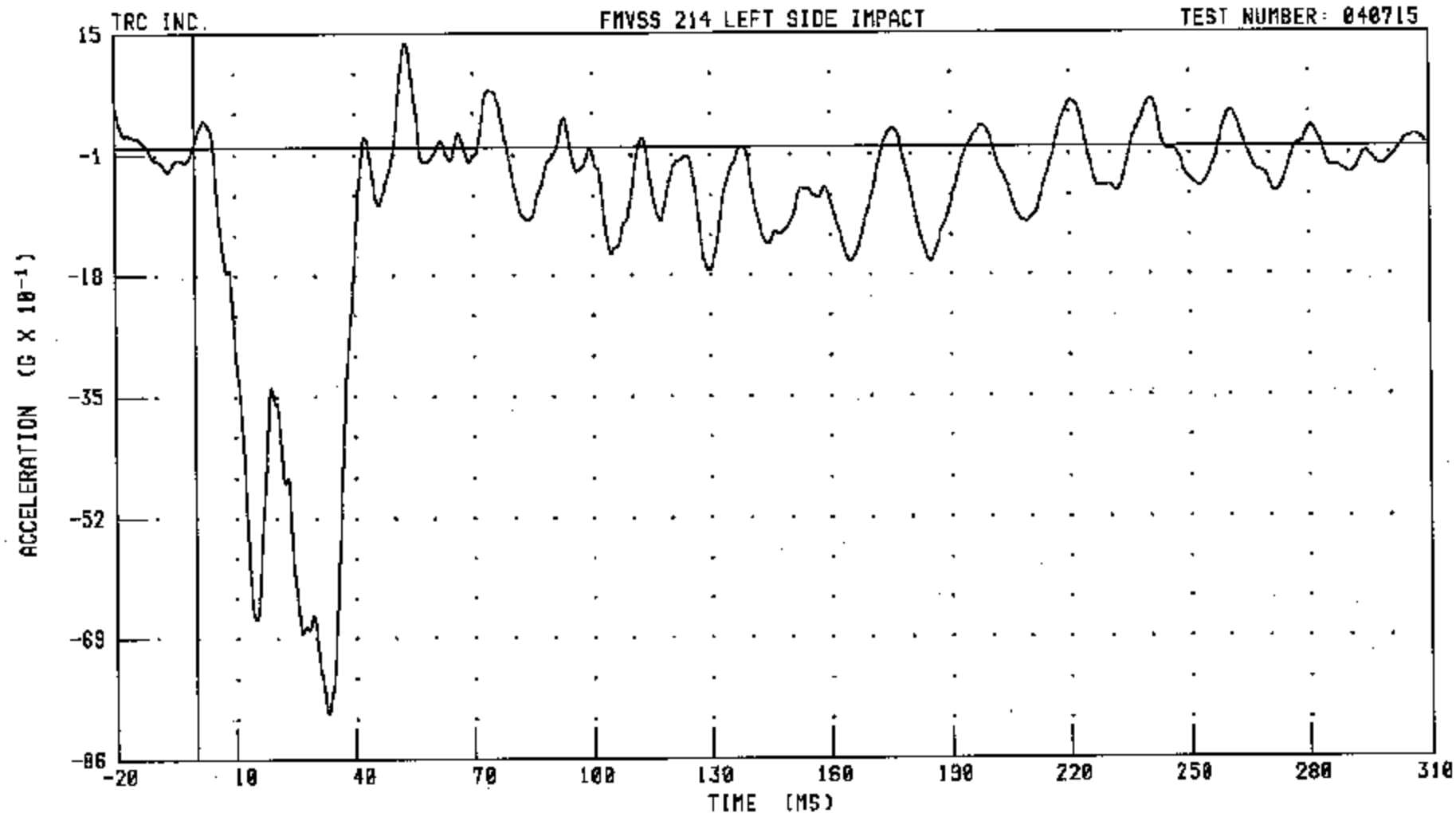
B-94

040715-1

48/24 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2004 MAZDA 3
MDB CENTER OF GRAVITY Y-AXIS ACCELERATION

FMVSS 214 LEFT SIDE IMPACT

TEST NUMBER: 040715



CHANNEL: BCGYG1 FILTER: CH. CLASS 60

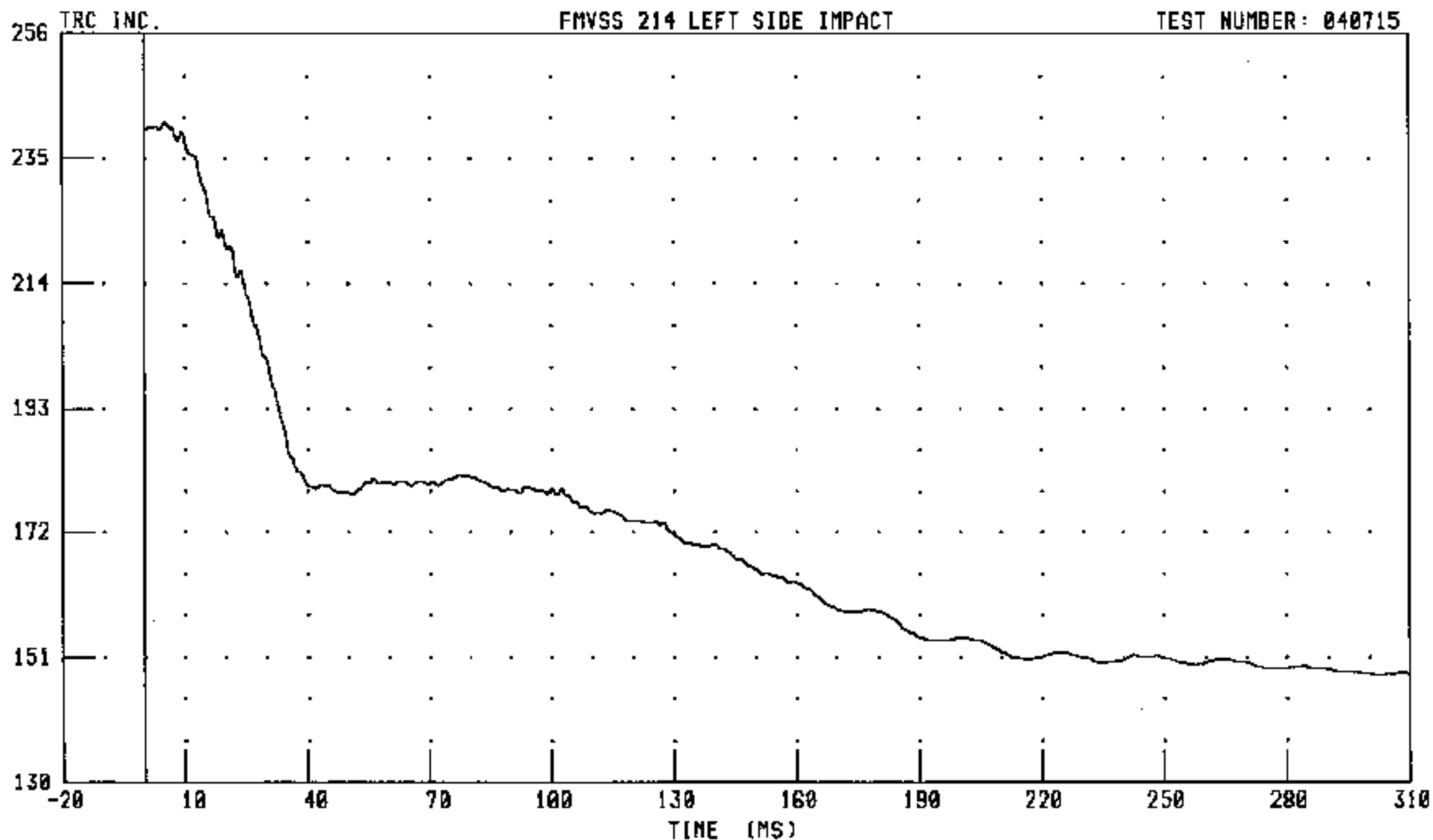
B-95

040715-1

48/24 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2004 MAZDA 3
MDB CENTER OF GRAVITY Y-AXIS VELOCITY

FMVSS 214 LEFT SIDE IMPACT

TEST NUMBER: 040715



CHANNEL: BCGYV1 FILTER: CH. CLASS 180

PEAK DATA: 24.12 KM/H @ 5.12 MS; 14.79 KM/H @ 303.60 MS

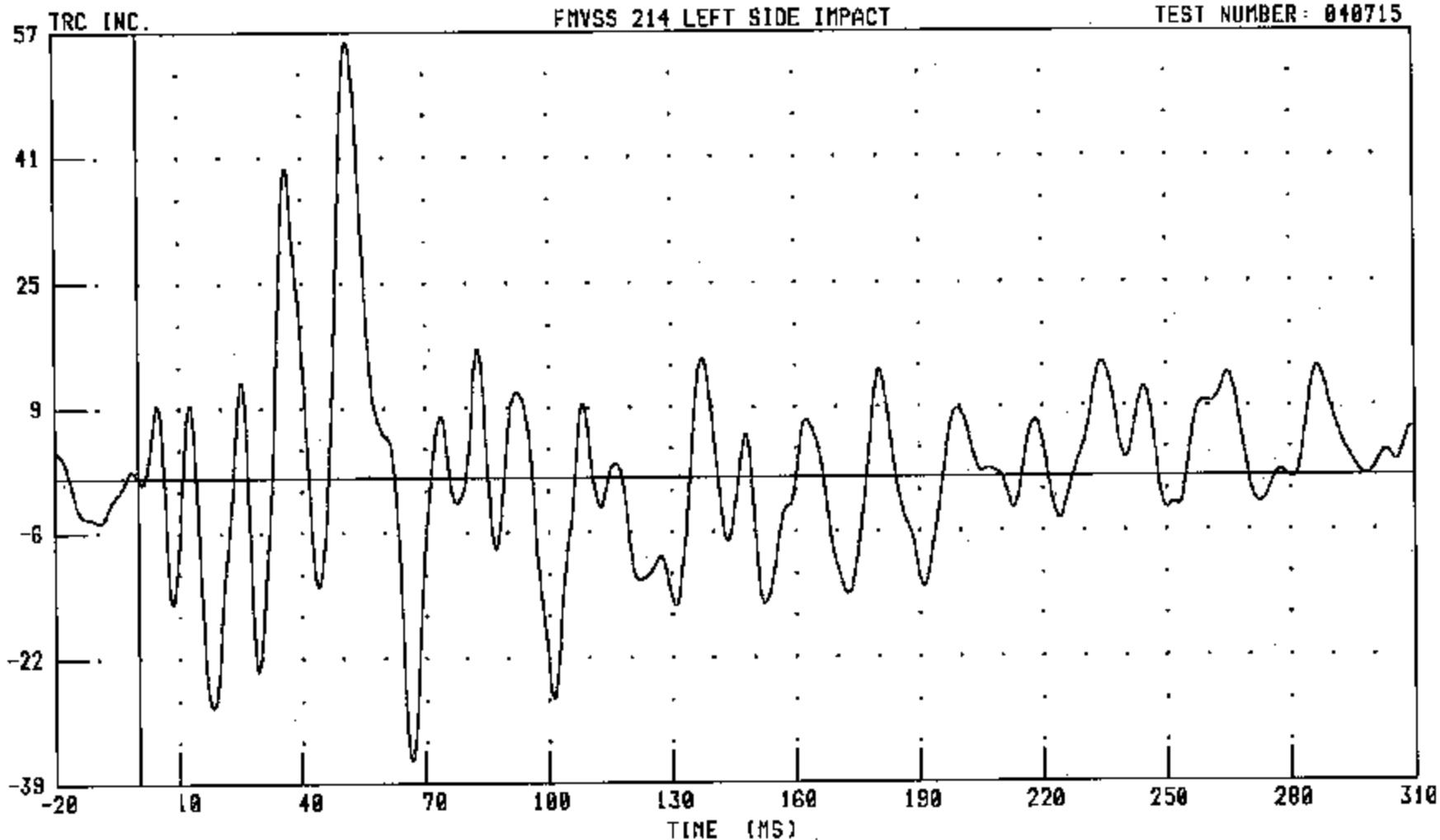
B-96

040715-1

48/24 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2004 MAZDA 3
MDB CENTER OF GRAVITY Z-AXIS ACCELERATION

FMVSS 214 LEFT SIDE IMPACT

TEST NUMBER: 040715



CHANNEL: BCGZG1 FILTER: CH. CLASS 60

B-97

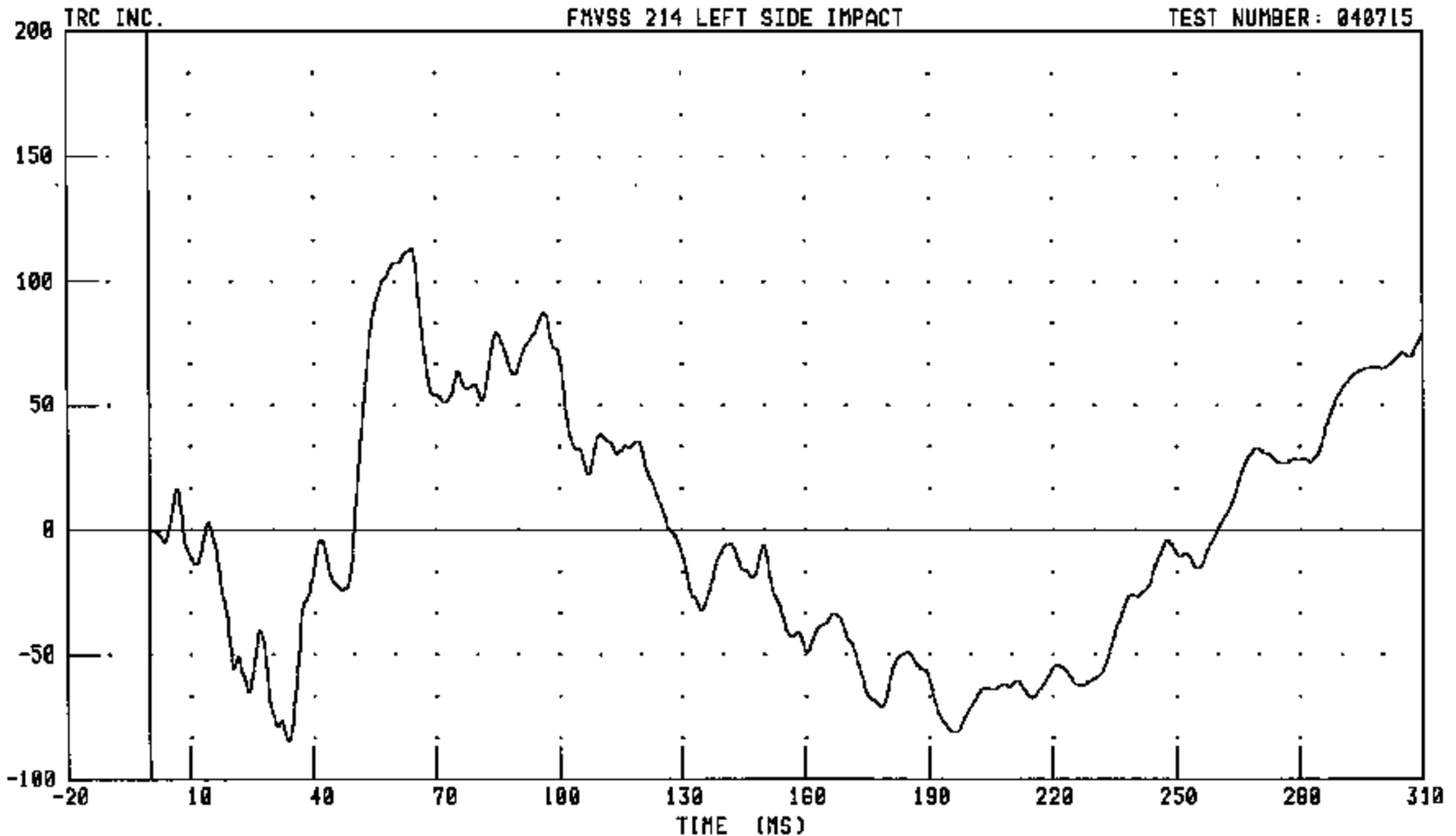
040715-1

48/24 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2004 MAZDA 3

MOB CENTER OF GRAVITY Z-AXIS VELOCITY

FMVSS 214 LEFT SIDE IMPACT

TEST NUMBER: 040715



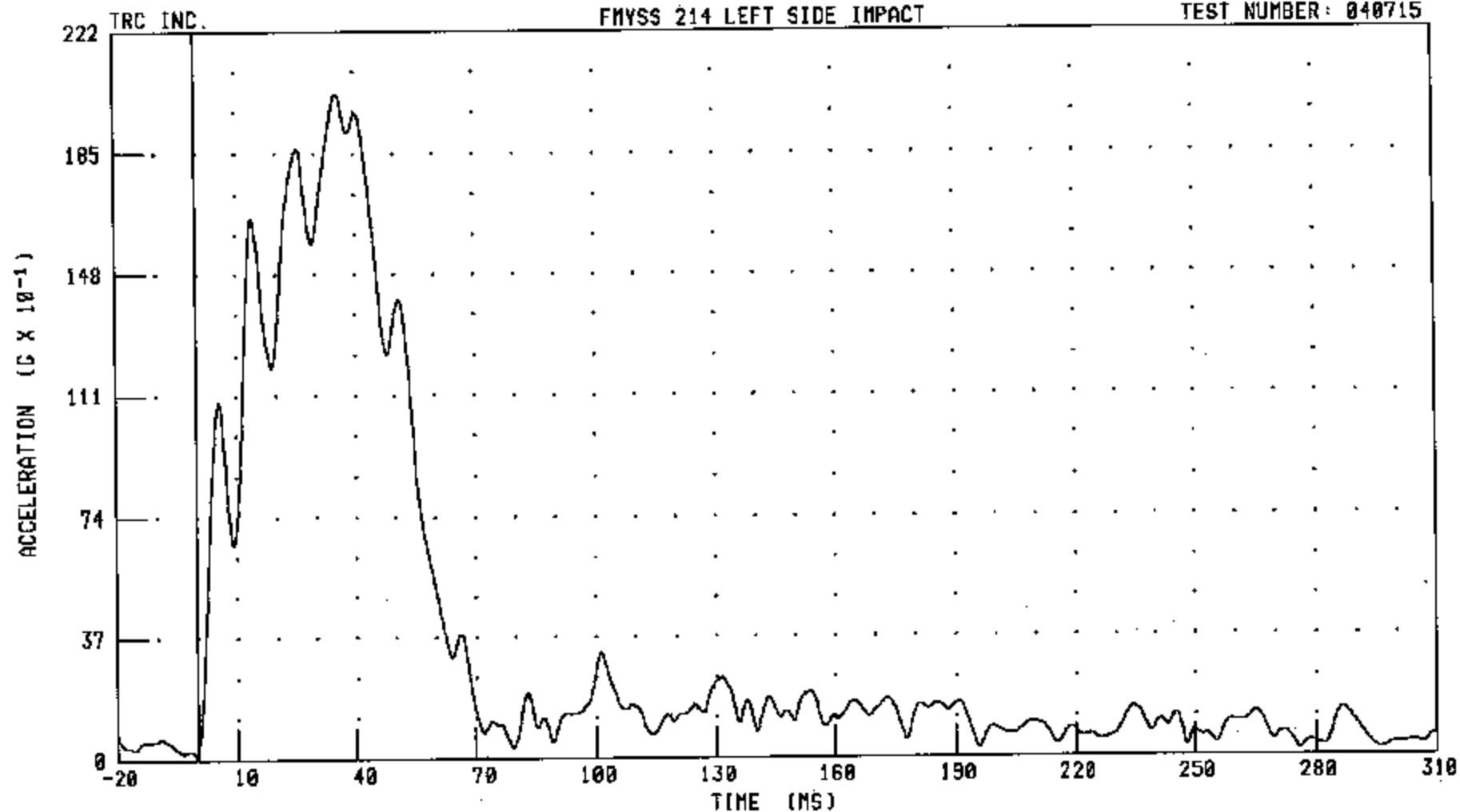
B-98

040715-1

48/24 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2004 MAZDA 3
HDB CENTER OF GRAVITY RESULTANT ACCELERATION

FHYSS 214 LEFT SIDE IMPACT

TEST NUMBER: 040715



CHANNEL: BCCRG1 FILTER: CH. CLASS 60

B-99

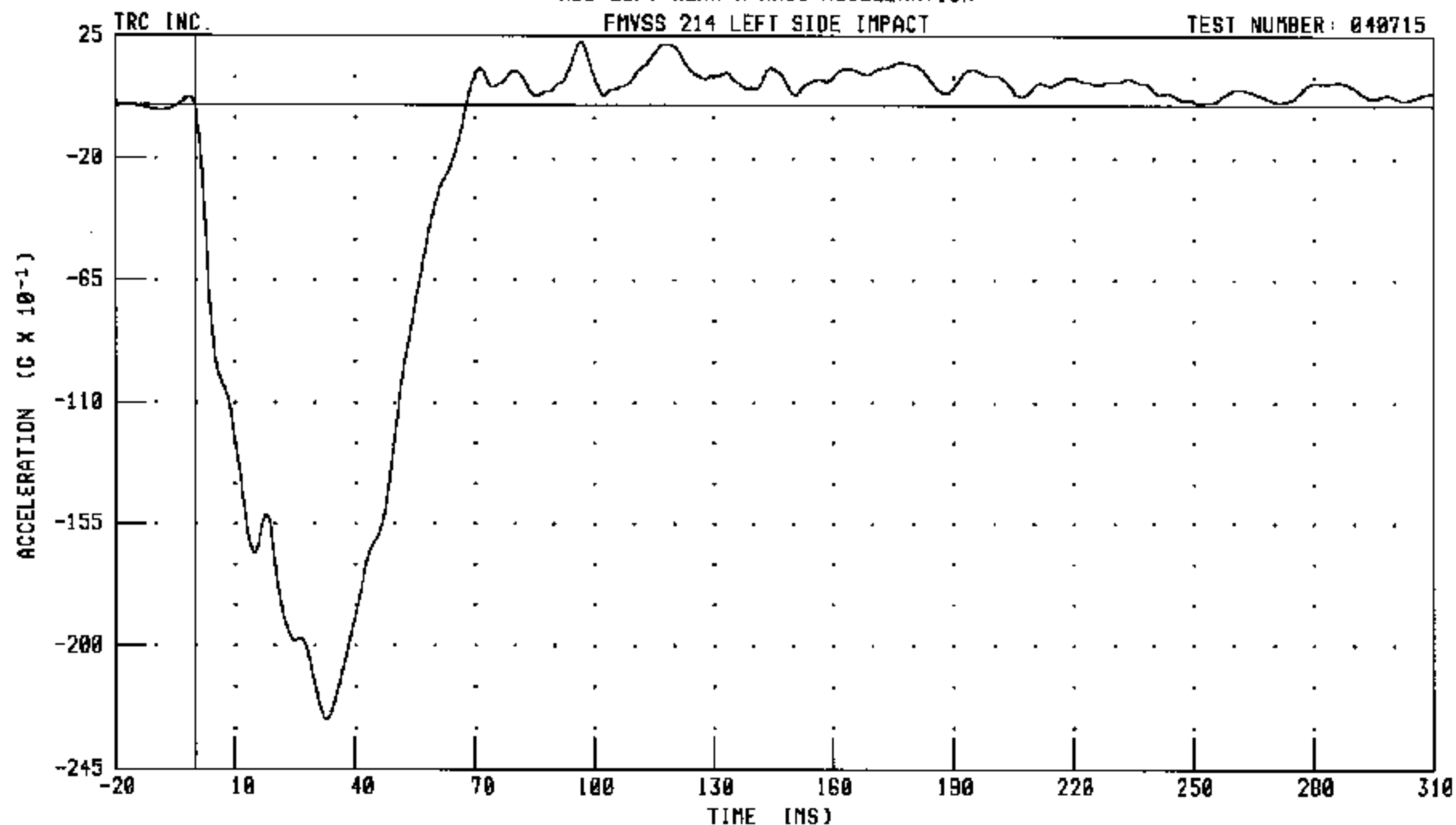
040715-1

48/24 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2004 MAZDA 3

NDB LEFT REAR X-AXIS ACCELERATION

FMVSS 214 LEFT SIDE IMPACT

TEST NUMBER: 040715



B-100

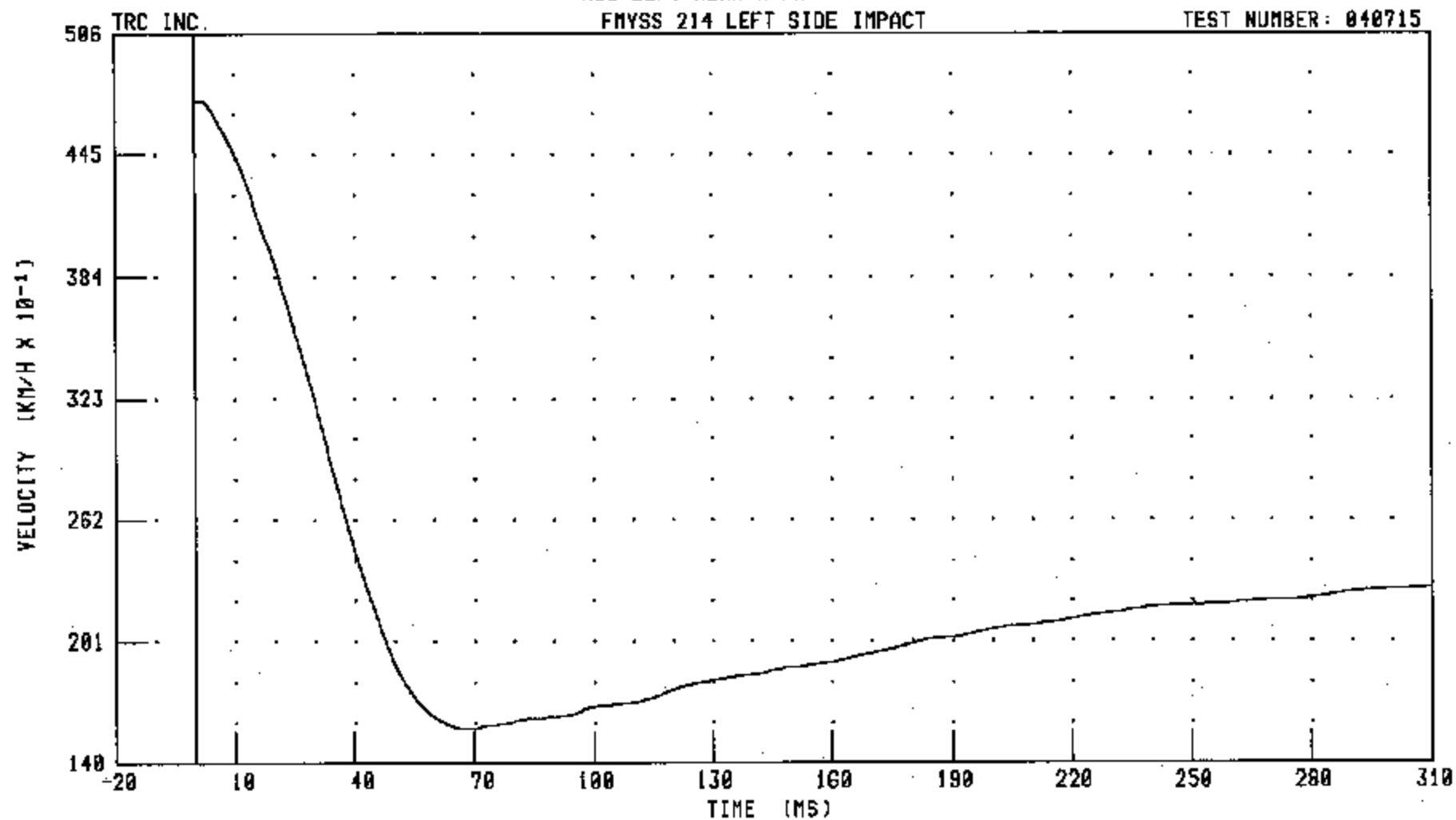
040715-1

48/24 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2004 MAZDA 3

MDB LEFT REAR X-AXIS VELOCITY

FMYSS 214 LEFT SIDE IMPACT

TEST NUMBER: 040715



CHANNEL: LRRXV1 FILTER: CH. CLASS 100

PEAK DATA: 47.21 KM/H @ 1.52 MS; 15.68 KM/H @ 67.76 MS

B-101

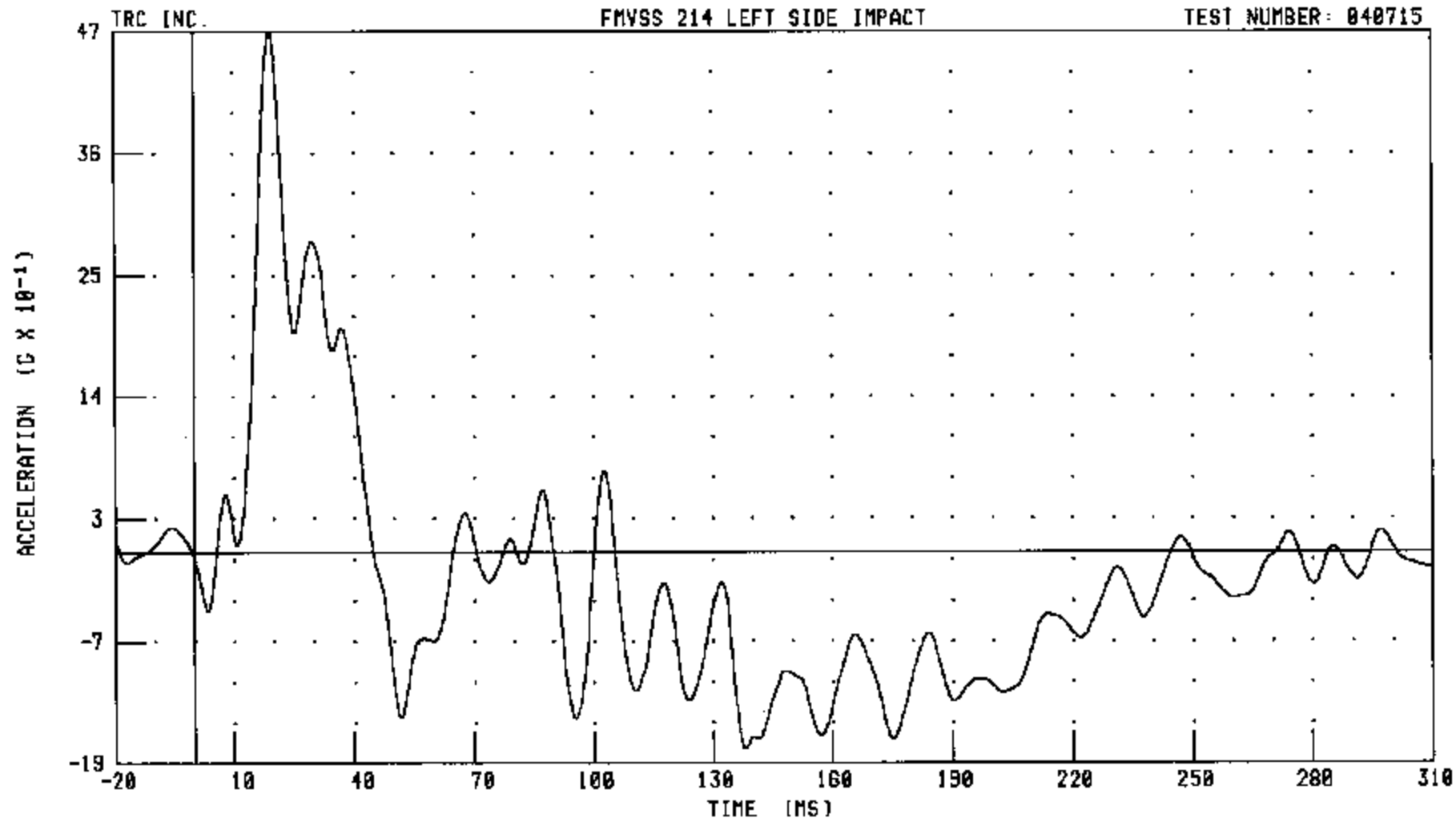
040715-1

48/24 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2004 MAZDA 3

MOB LEFT REAR Y-AXIS ACCELERATION

FMVSS 214 LEFT SIDE IMPACT

TEST NUMBER: 040715



CHANNEL: LRRYG1 FILTER: CH. CLASS 60

B-102

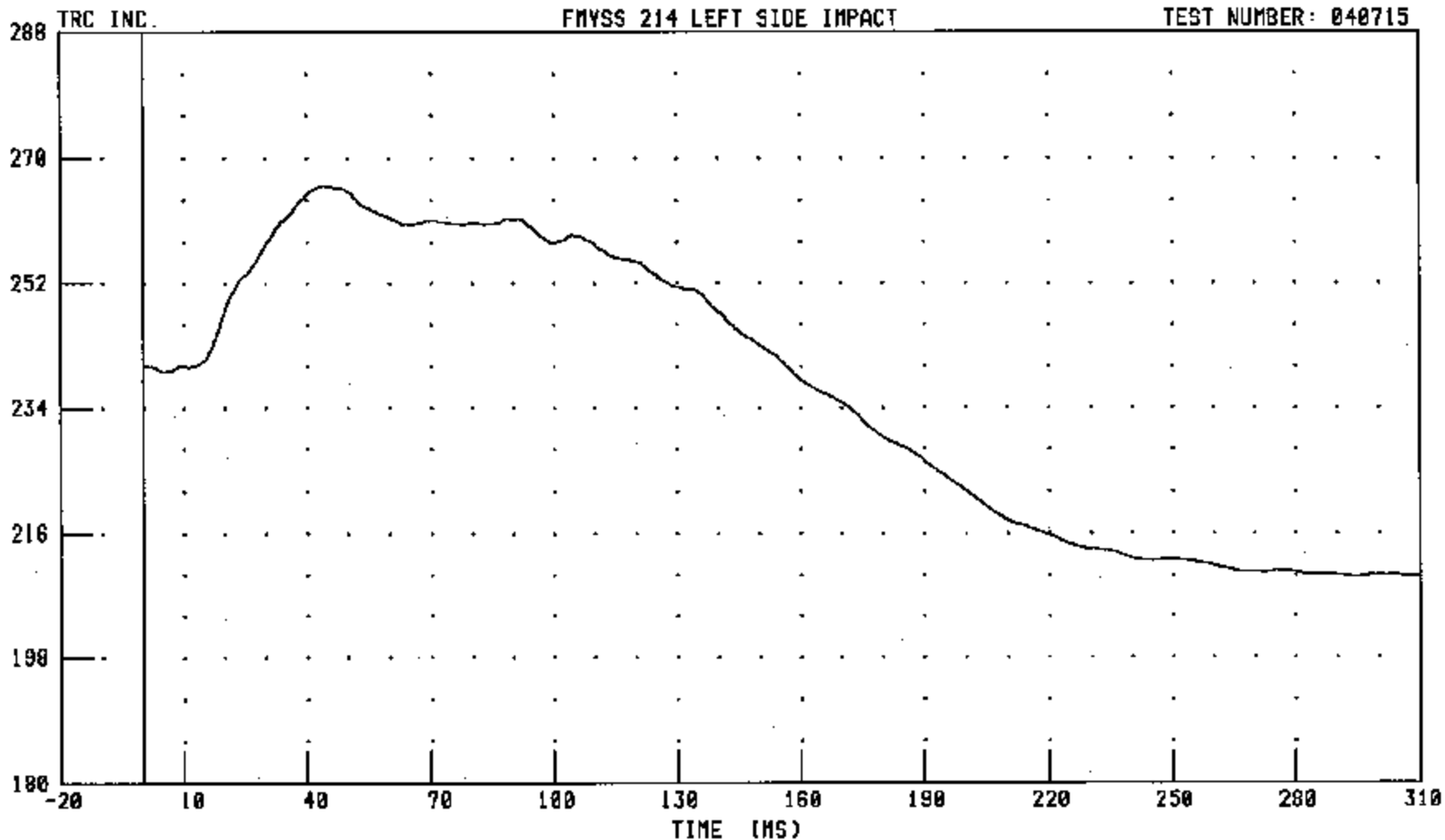
040715-1

48/24 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2004 MAZDA 3

NDB LEFT REAR Y-AXIS VELOCITY

FMVSS 214 LEFT SIDE IMPACT

TEST NUMBER: 040715



CHANNEL: LRRYV1 FILTER: CH. CLASS 180

PEAK DATA: 26.60 KM/H @ 44.24 MS; 20.97 KM/H @ 310.00 MS

B-103

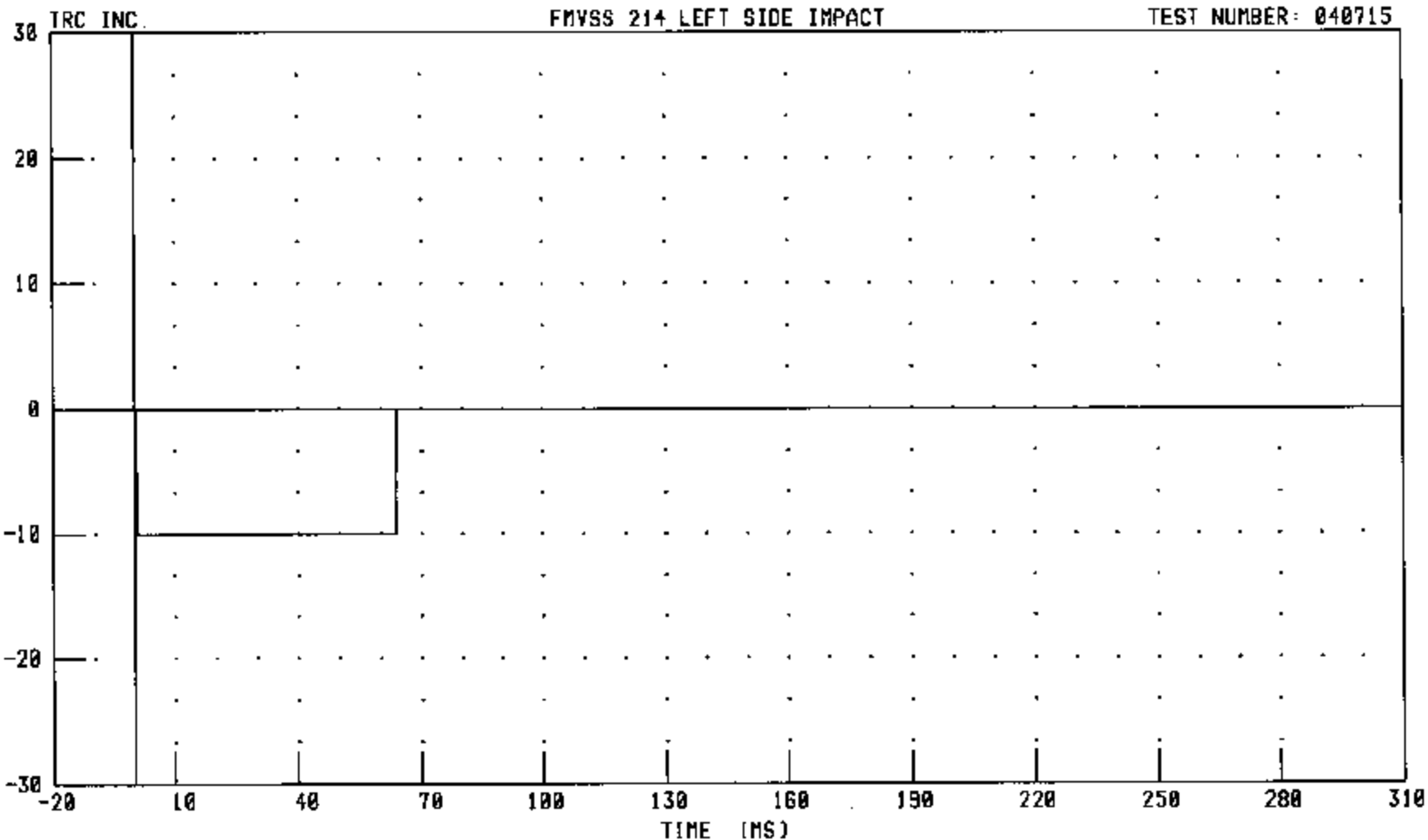
040715-1

48/24 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2004 MAZDA 3

NDB RIGHT SIDE CONTACT SWITCH

FMVSS 214 LEFT SIDE IMPACT

TEST NUMBER: 040715



CHANNEL: MDBR1

FILTER: CH. CLASS 1000

PEAK DATA: 0.00 V @ 310.00 MS; -1.00 V @ 0.72 MS

B-104

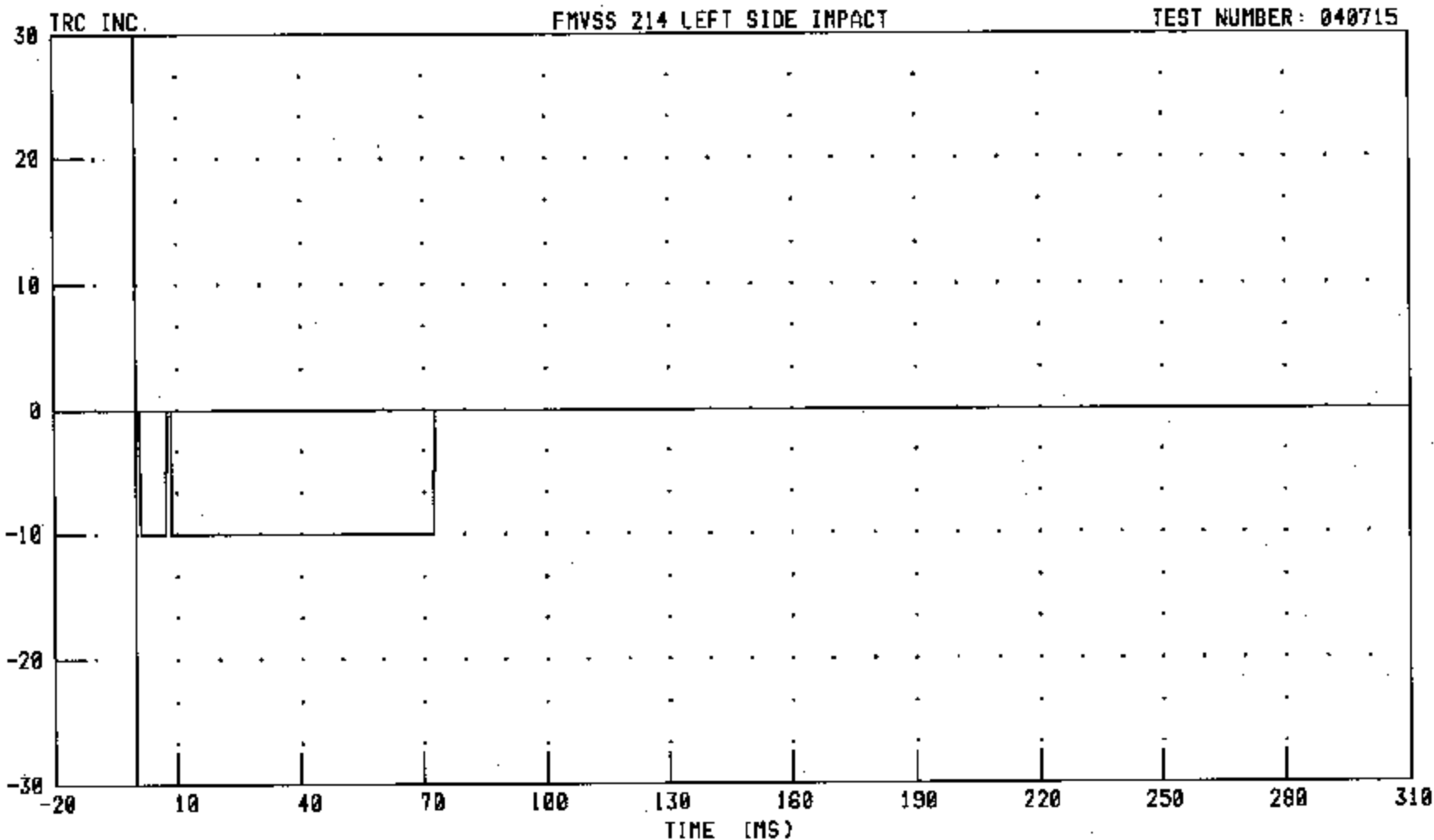
040715-1

48/24 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2004 MAZDA 3

MDB LEFT SIDE CONTACT SWITCH

FMVSS 214 LEFT SIDE IMPACT

TEST NUMBER: 040715



CHANNEL: MDBL1

FILTER: CH. CLASS 1000

PEAK DATA: 0.00 V @ 310.00 MS; -1.00 V @ 1.20 MS

B-105

040715-1

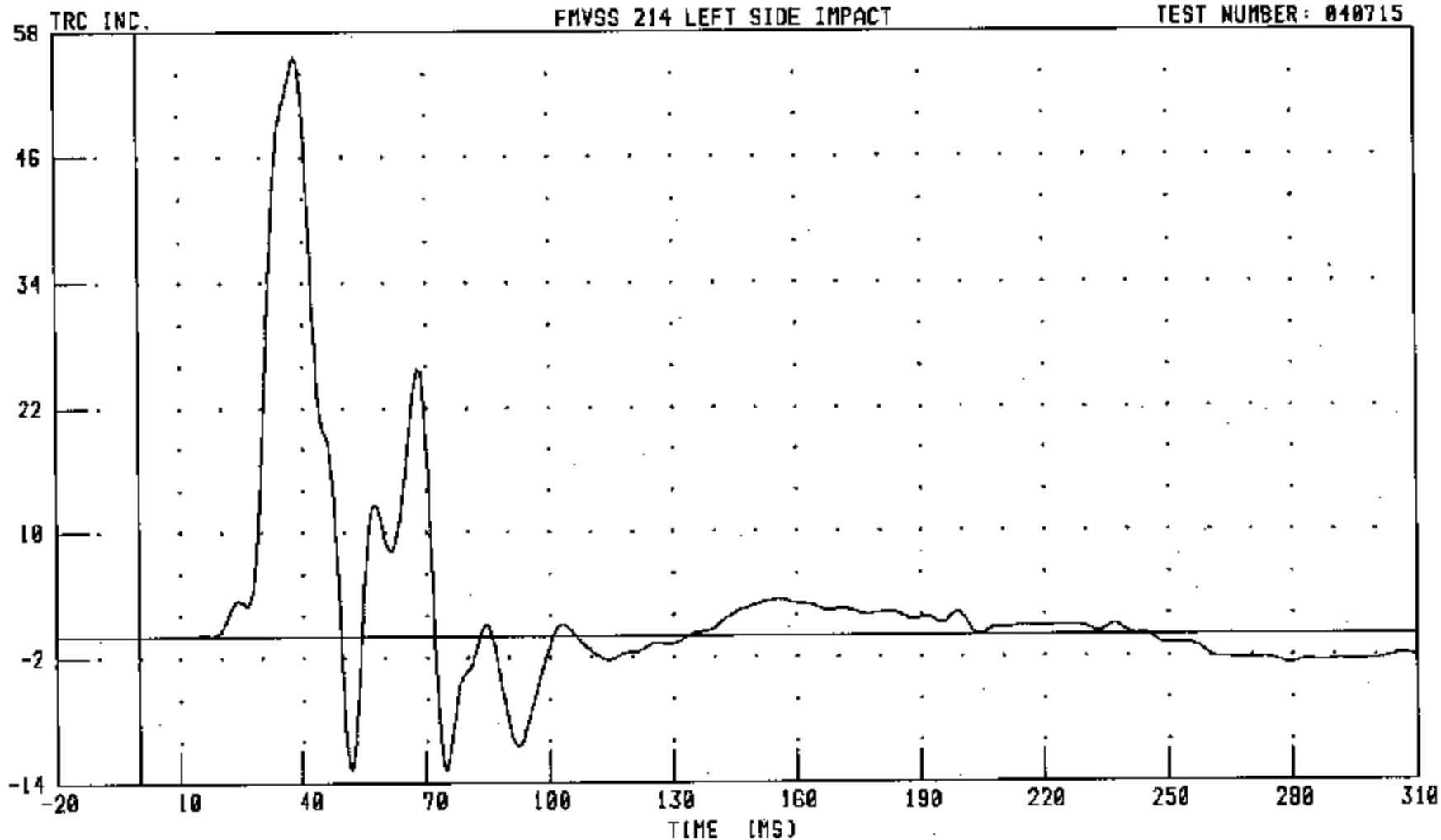
Driver and Passenger Dummy Instrumentation Plots
Acceleration Data - FIR Filtered

48/24 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2004 MAZDA 3

DRIVER UPPER RIB Y-AXIS ACCELERATION

FMVSS 214 LEFT SIDE IMPACT

TEST NUMBER: 040715



CHANNEL: LURYG1 FILTER: FIR 100

B-107

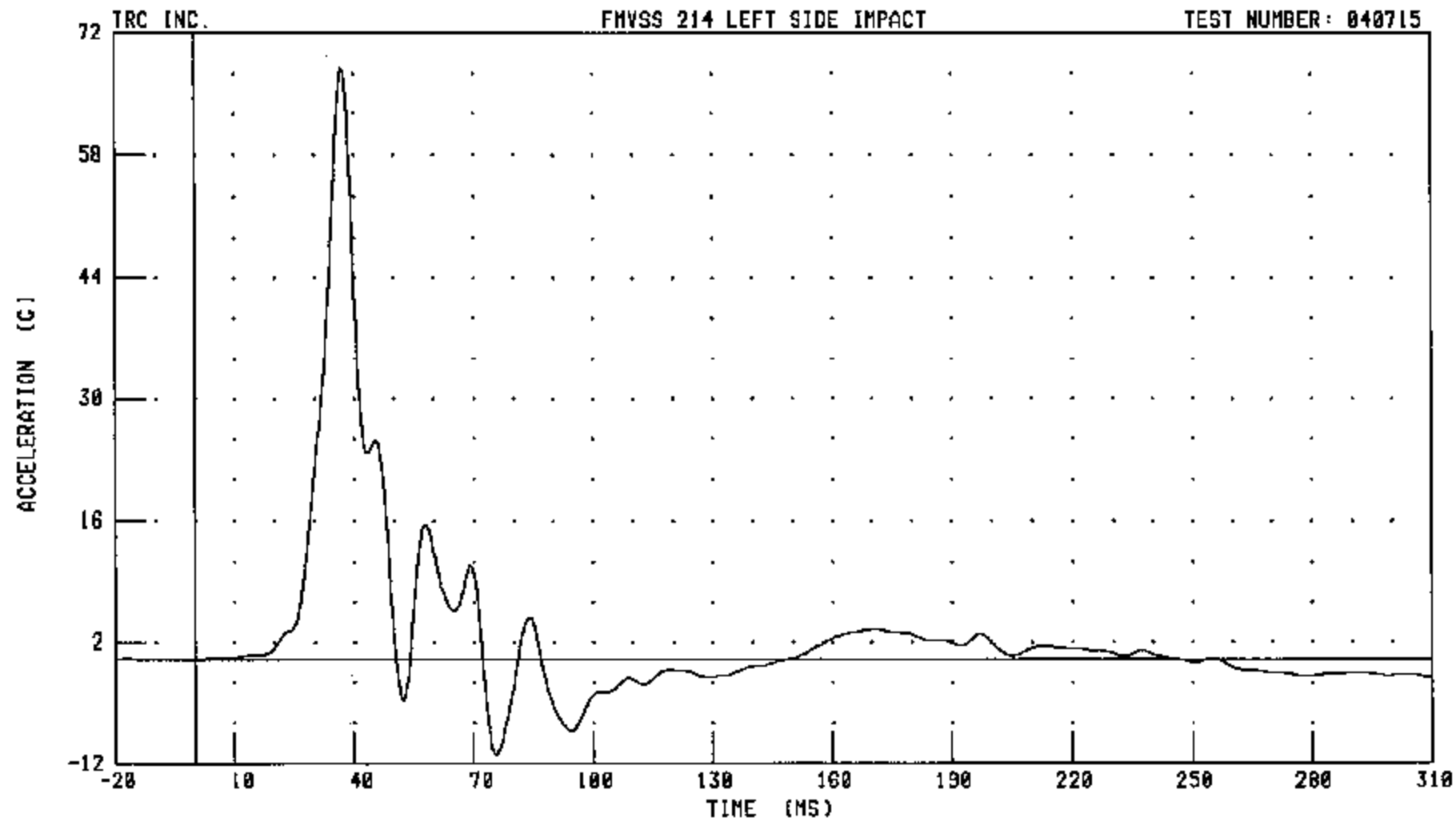
040715-1

48/24 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2004 MAZDA 3

DRIVER LOWER RIB Y-AXIS ACCELERATION

FHVSS 214 LEFT SIDE IMPACT

TEST NUMBER: 040715



CHANNEL: LLRYG1 FILTER: FIR 100

PEAK DATA: 67.99 G @ 36.88 MS; -11.02 G @ 75.62 MS

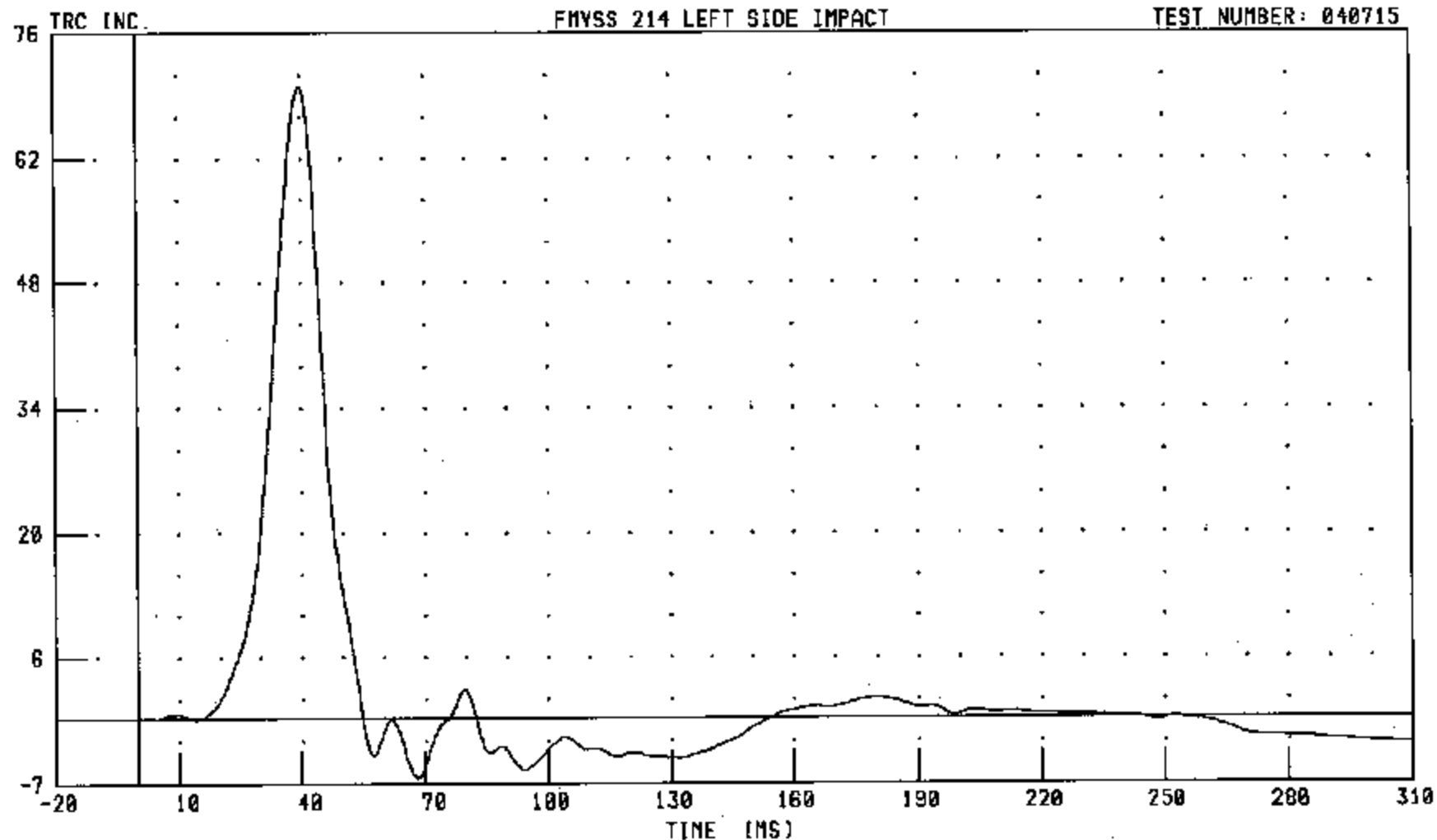
B-108

040715-1

48/24 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2004 MAZDA 3
DRIVER LOWER SPINE Y-AXIS ACCELERATION

FHYSS 214 LEFT SIDE IMPACT

TEST NUMBER: 040715



CHANNEL: T12YG1 FILTER: FIR 100

B-109

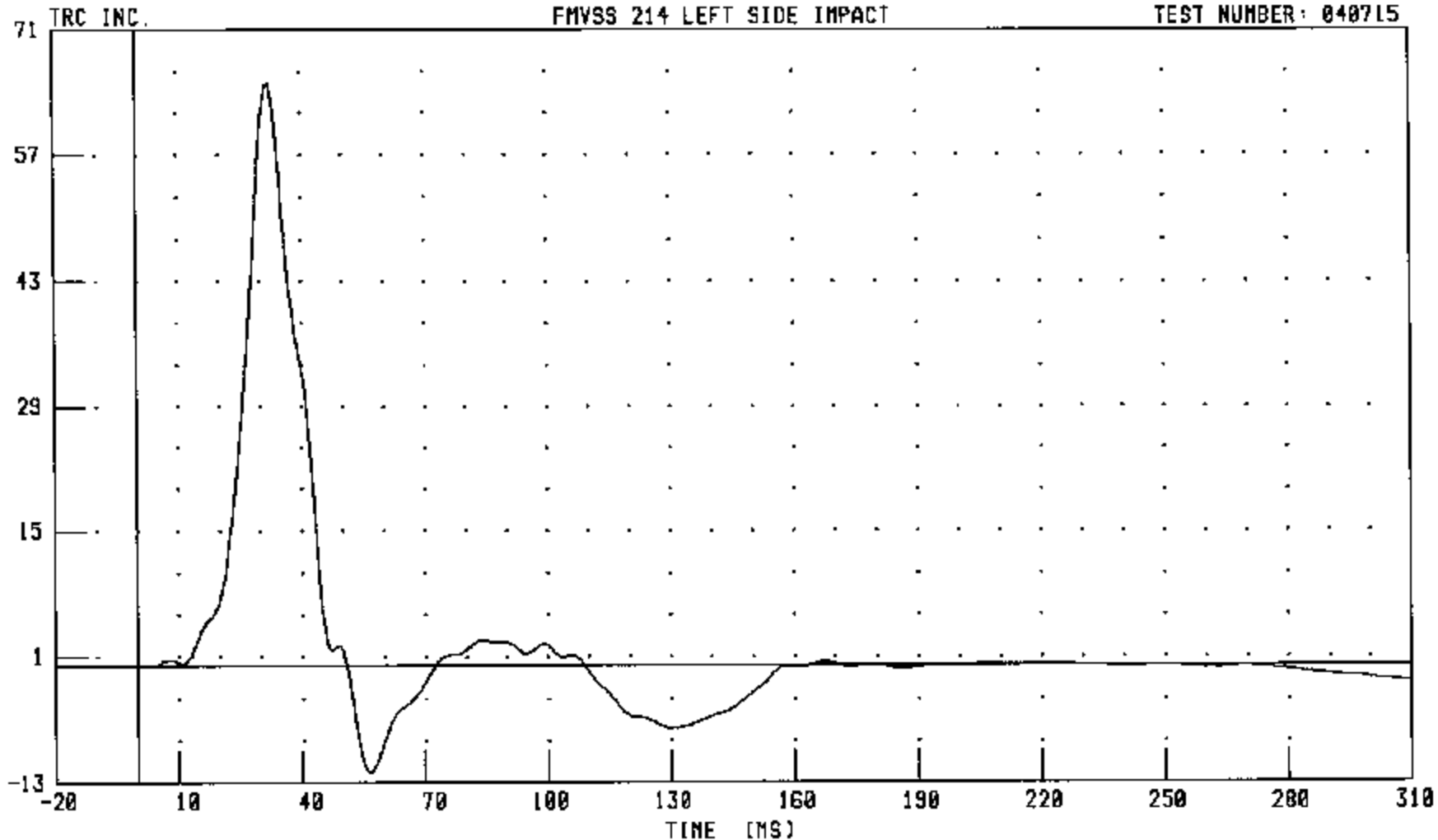
040715-1

48/24 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2004 MAZDA 3

DRIVER PELVIS Y-AXIS ACCELERATION

FMVSS 214 LEFT SIDE IMPACT

TEST NUMBER: 040715



CHANNEL: PEVYG1 FILTER: FIR 100

PEAK DATA: 65.00 G @ 32.50 MS, -11.85 G @ 56.25 MS

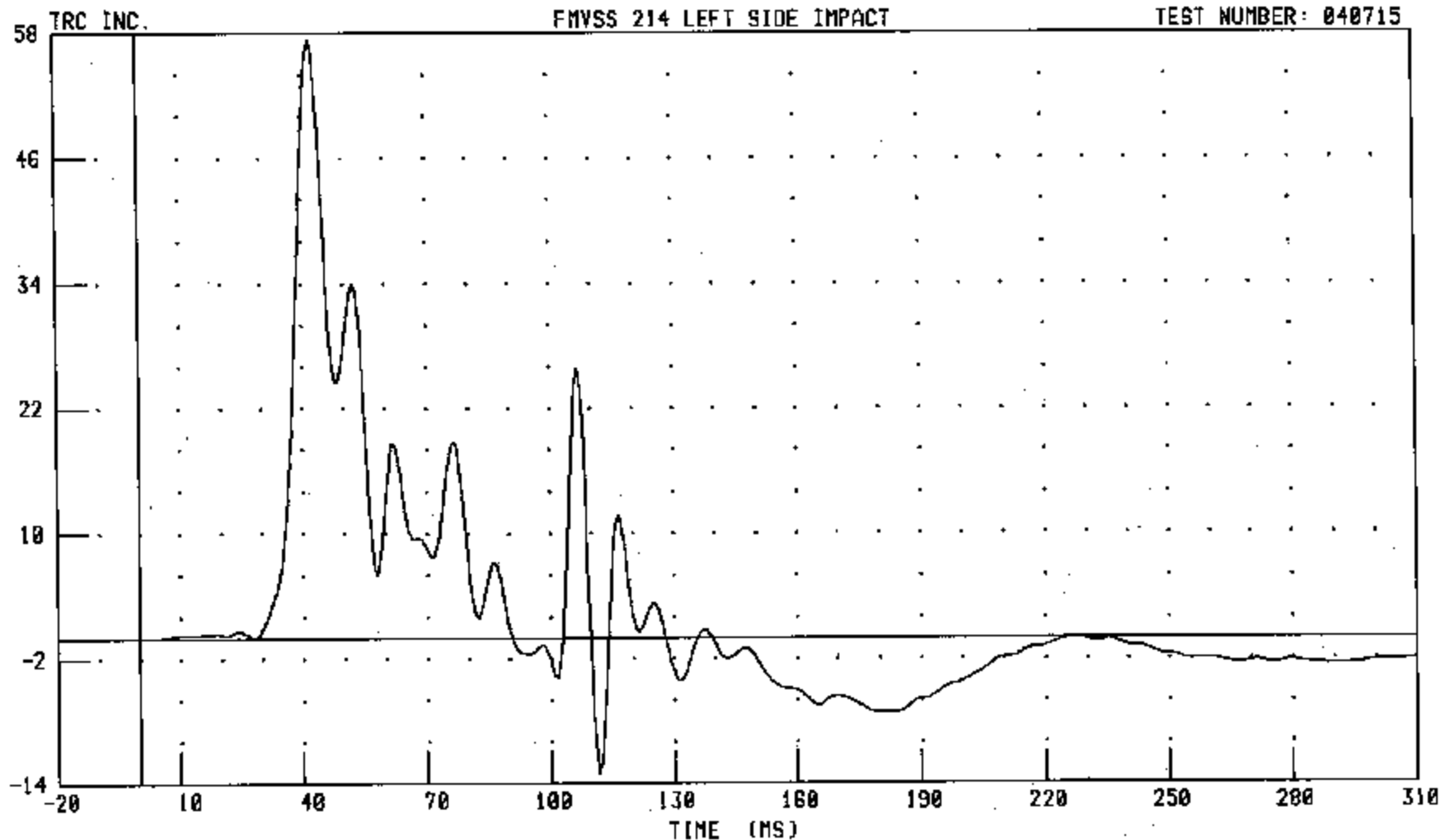
B-110

040715-1

48/24 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2004 MAZDA 3
LEFT REAR PASSENGER UPPER RIB Y-AXIS ACCELERATION

FMVSS 214 LEFT SIDE IMPACT

TEST NUMBER: 040715



CHANNEL: LURY04 FILTER: FIR 100

B-111

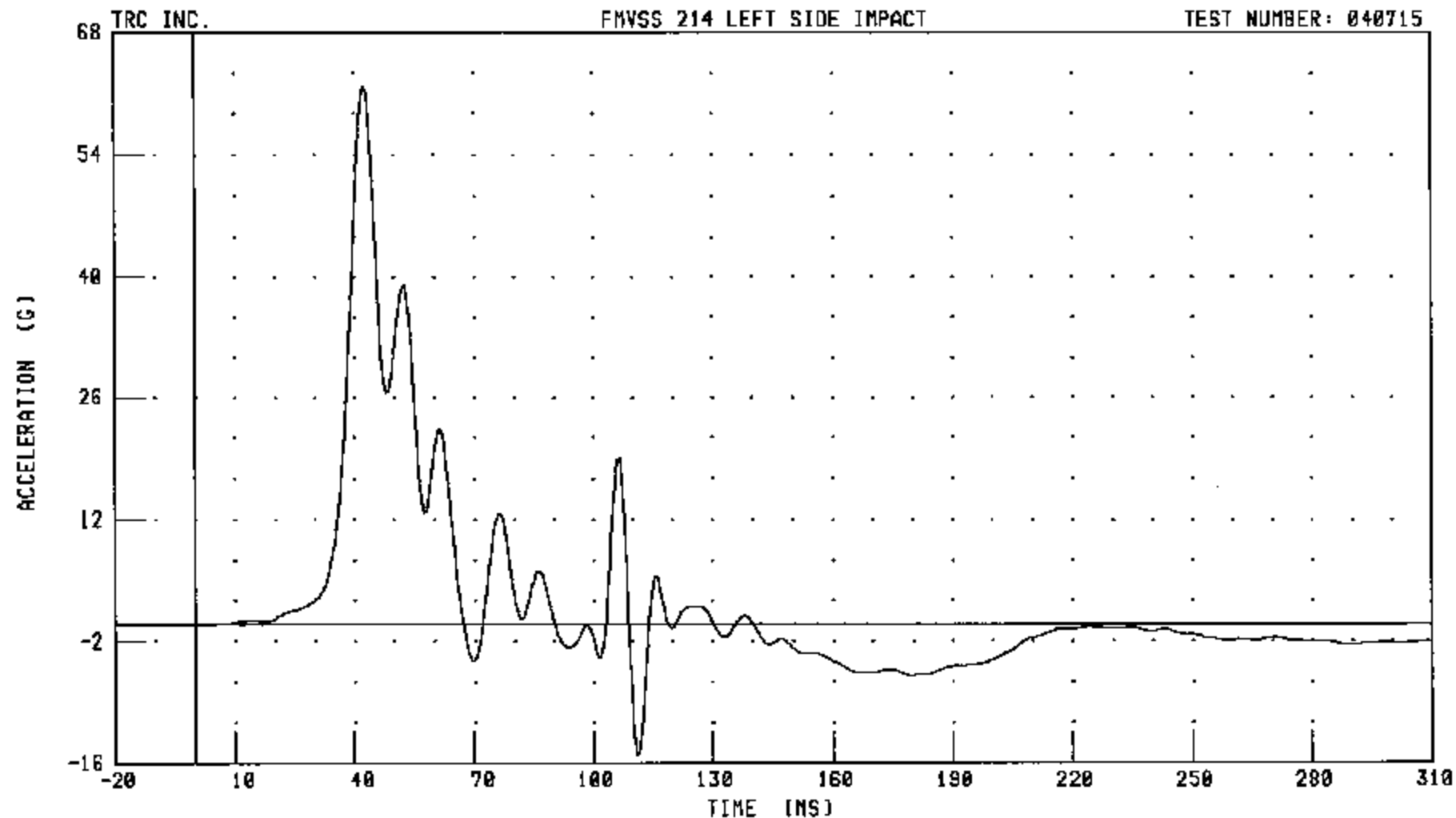
040715-1

48/24 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2004 MAZDA 3

LEFT REAR PASSENGER LOWER RIB Y-AXIS ACCELERATION

FMVSS 214 LEFT SIDE IMPACT

TEST NUMBER: 040715



CHANNEL: LLRYG4 FILTER: FIR 100

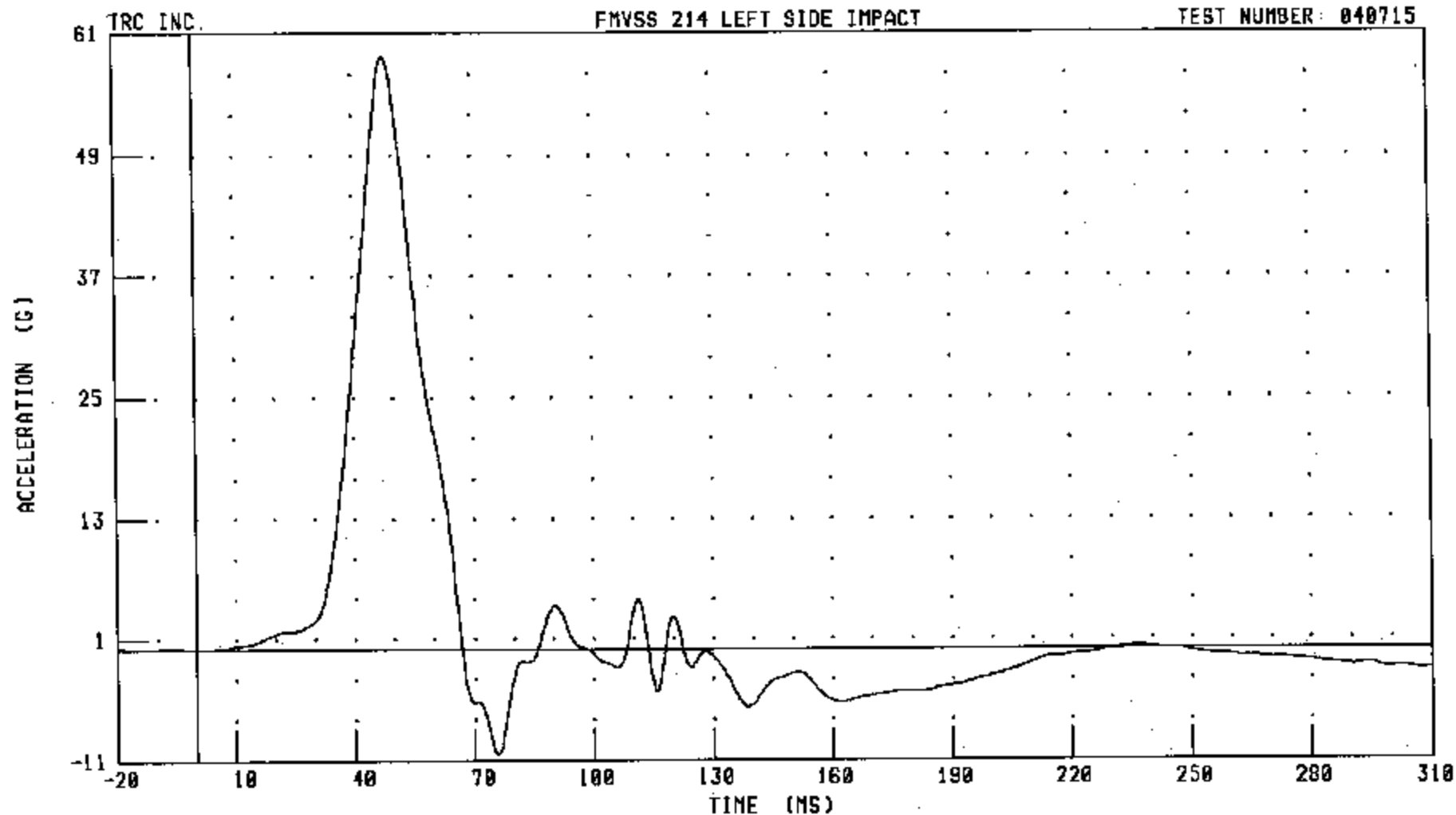
B-112

040715-1

48/24 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2004 MAZDA 3
LEFT REAR PASSENGER LOWER SPINE Y-AXIS ACCELERATION

FMVSS 214 LEFT SIDE IMPACT

TEST NUMBER: 040715



CHANNEL: T12YG4 FILTER: FIR 100

PEAK DATA: 58.73 G @ 48.13 MS; -10.37 G @ 75.62 MS

B-113

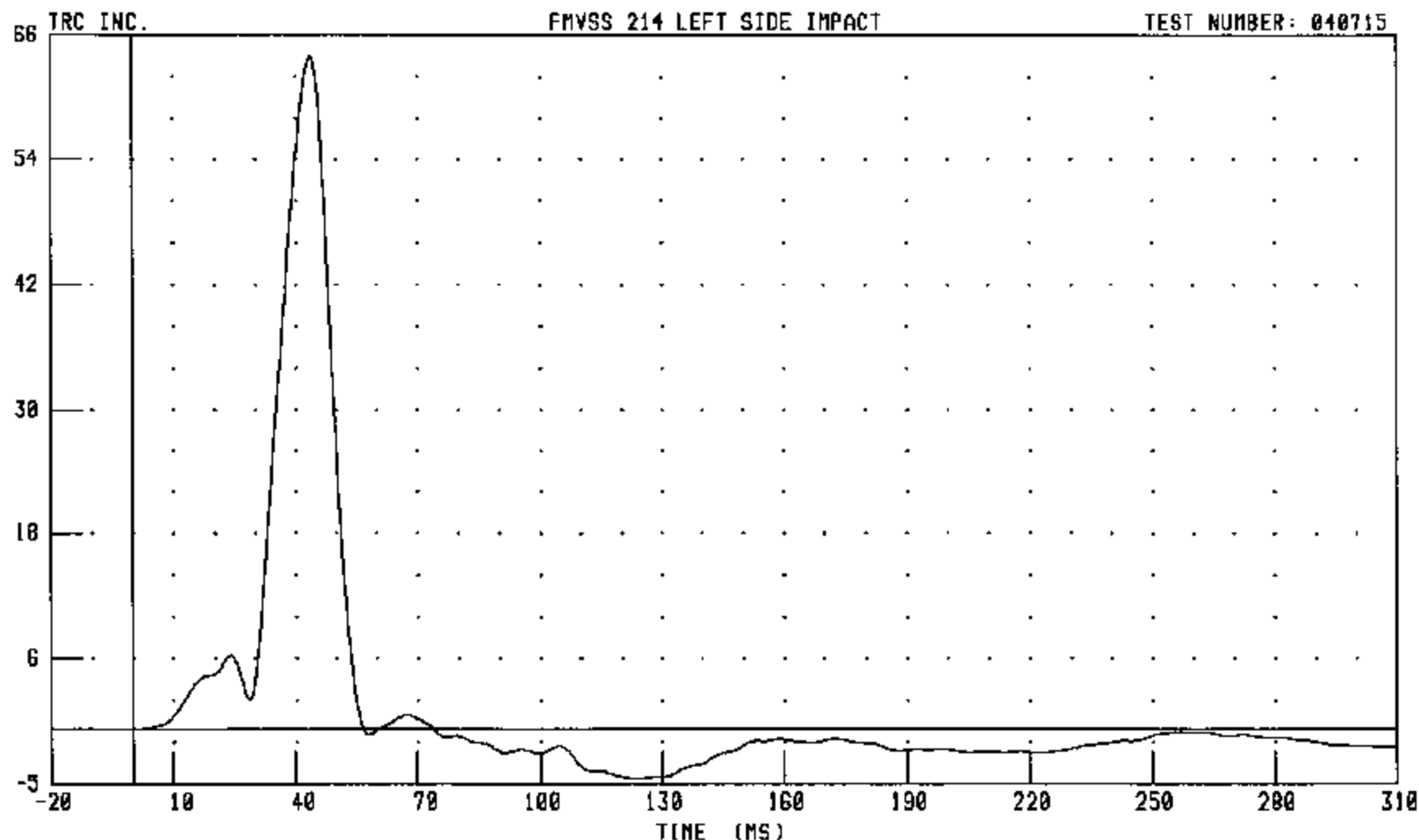
040715-1

48/24 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2004 MAZDA 3

LEFT REAR PASSENGER PELVIS Y-AXIS ACCELERATION

FMVSS 214 LEFT SIDE IMPACT

TEST NUMBER: 040715



CHANNEL: PEVYC4 FILTER: FIR 100

B-114

040715-1

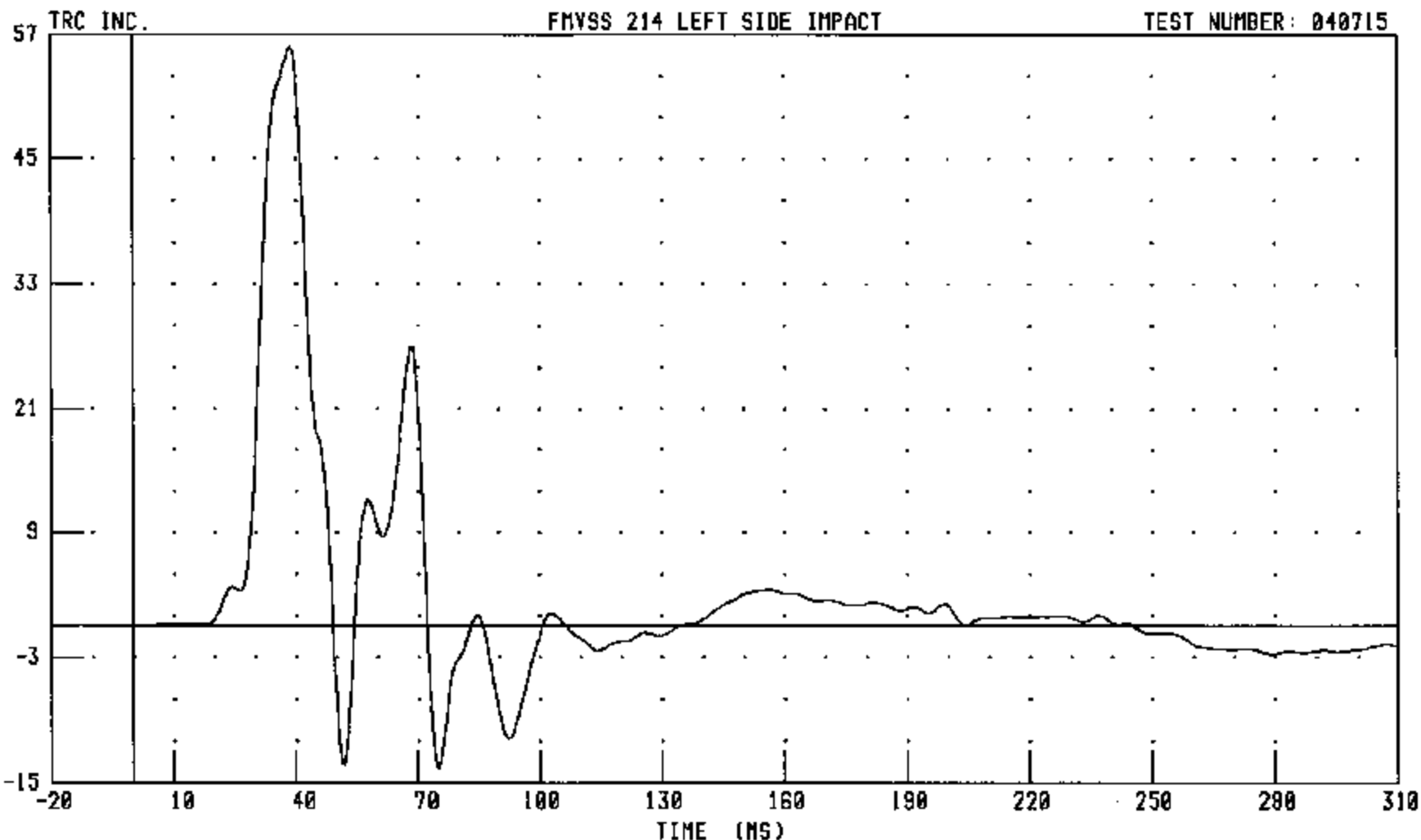
Driver and Passenger Dummy Instrumentation Plots
Acceleration Data - FIR Filtered - Redundant

48/24 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2004 MAZDA 3

DRIVER UPPER RIB Y-AXIS REDUNDANT ACCELERATION

FMVSS 214 LEFT SIDE IMPACT

TEST NUMBER: 040715



CHANNEL: LURYR1 FILTER: FIR 100

PEAK DATA: 55.78 G @ 38.75 MS; -13.72 G @ 75.00 MS

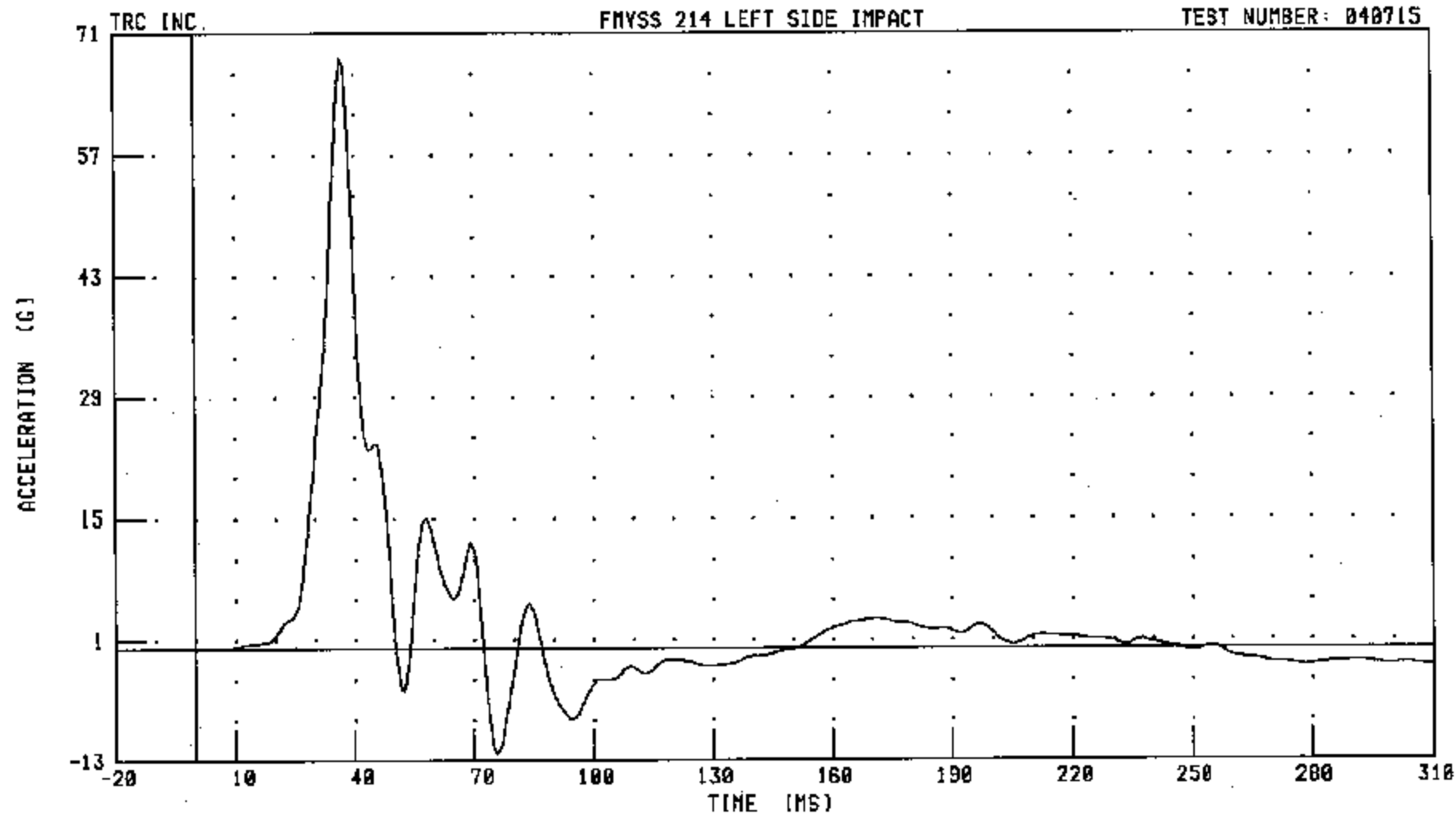
B-116

040715-1

48/24 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2004 MAZDA 3
DRIVER LOWER RIB Y-AXIS REDUNDANT ACCELERATION

FMYSS 214 LEFT SIDE IMPACT

TEST NUMBER: 040715



CHANNEL: LLRYR1 FILTER: FIR 100

PEAK DATA: 68.10 G @ 36.88 MS; -12.19 G @ 75.62 MS

B-117

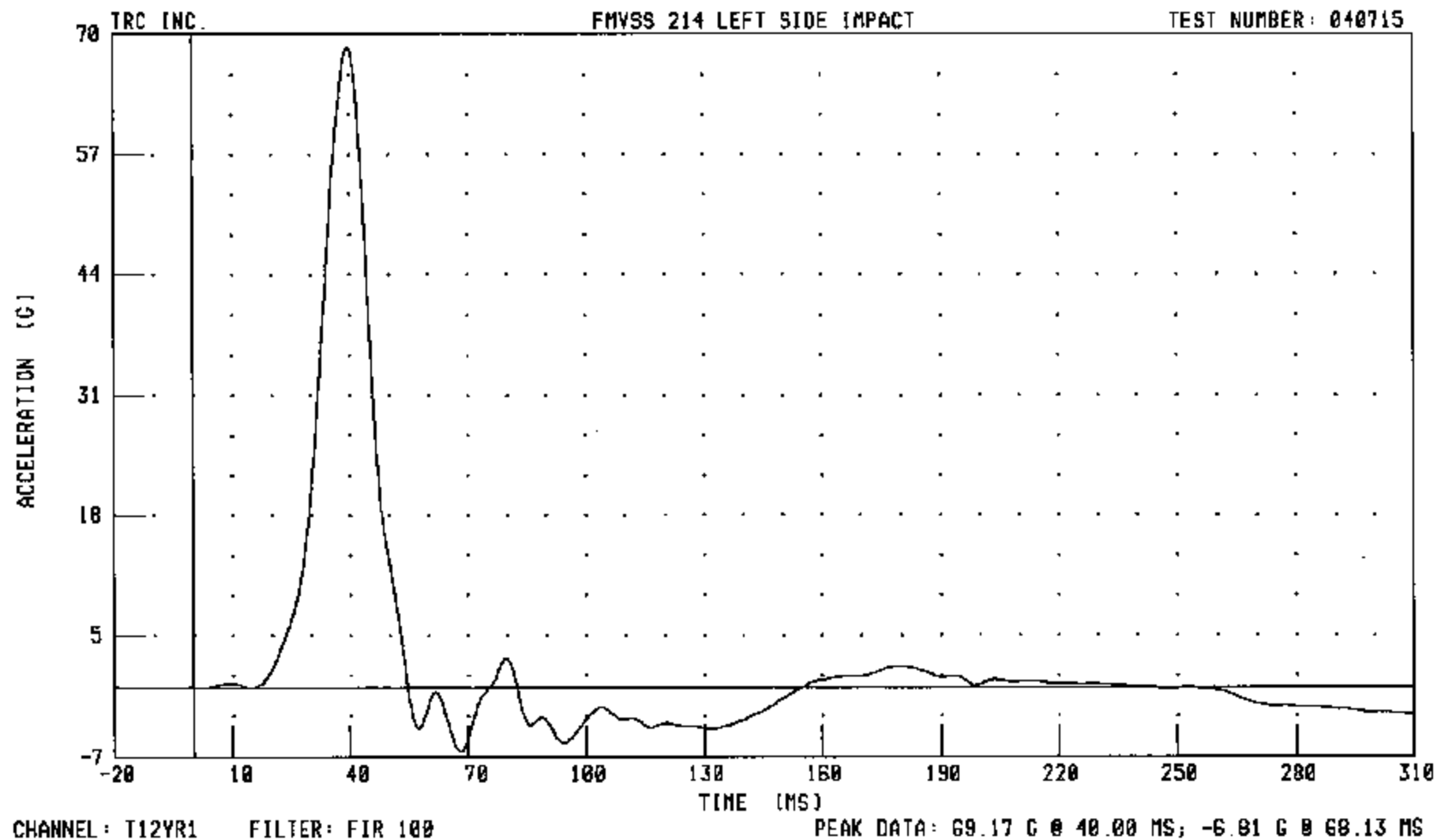
040715-1

48/24 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2004 MAZDA 3

DRIVER LOWER SPINE Y-AXIS REDUNDANT ACCELERATION

FMVSS 214 LEFT SIDE IMPACT

TEST NUMBER: 040715



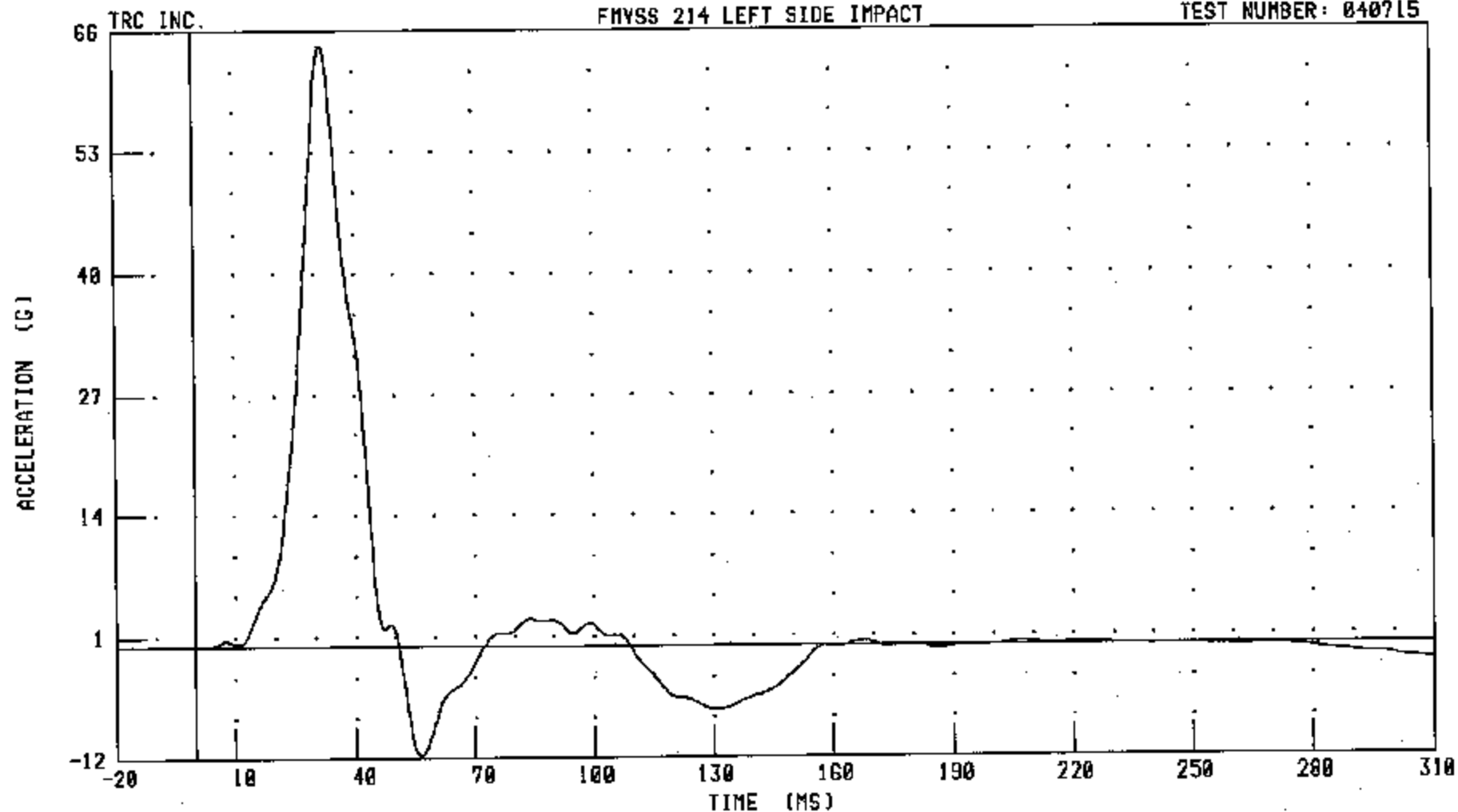
B-118

040715-1

48/24 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2004 MAZDA 3
DRIVER PELVIS Y-AXIS REDUNDANT ACCELERATION

FMVSS 214 LEFT SIDE IMPACT

TEST NUMBER: 040715



CHANNEL: PEVYR1 FILTER: FIR 100

B-119

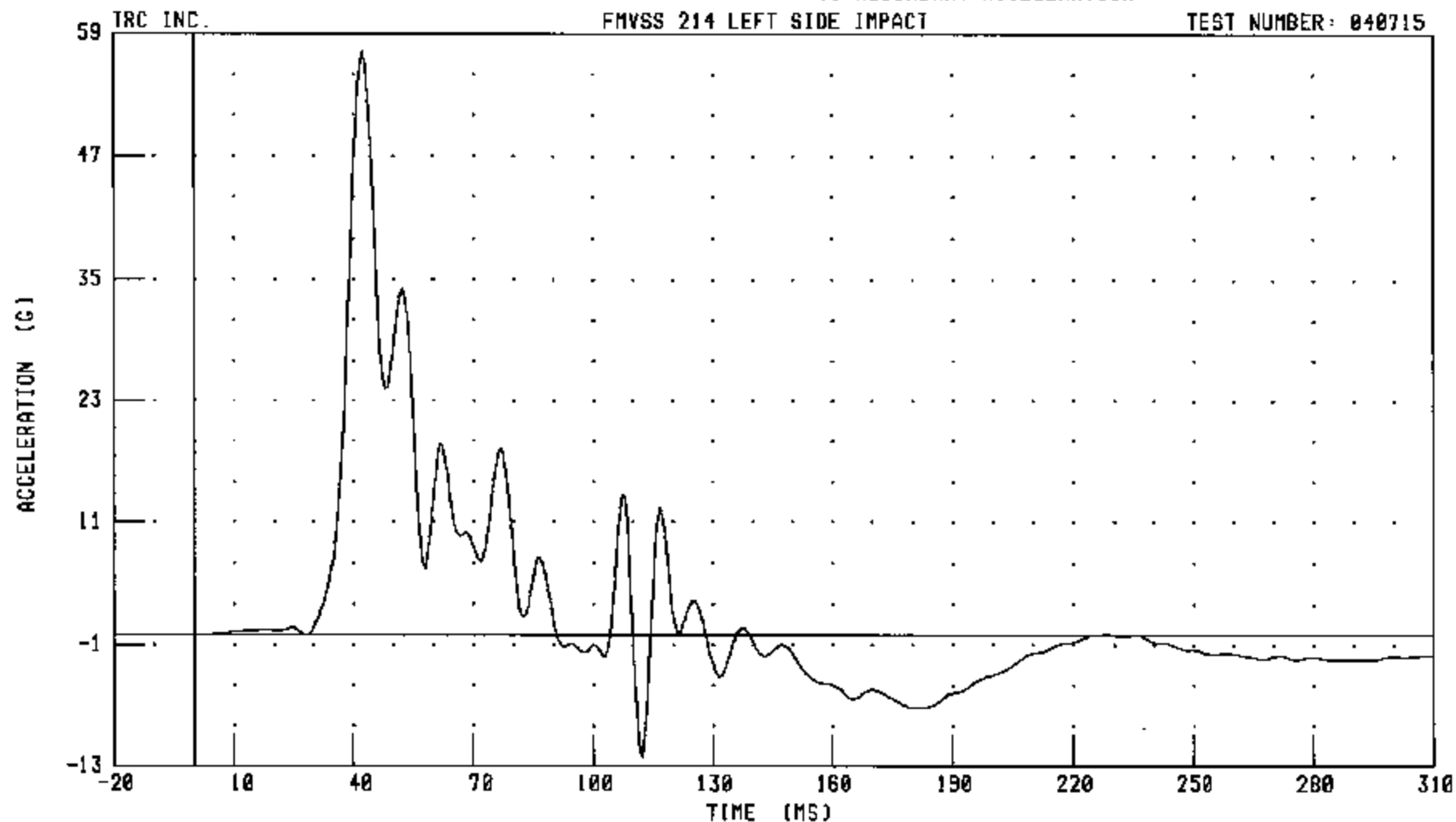
040715-1

48/24 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2004 HAZDA 3

LEFT REAR PASSENGER UPPER RIB Y-AXIS REDUNDANT ACCELERATION

FMVSS 214 LEFT SIDE IMPACT

TEST NUMBER: 040715



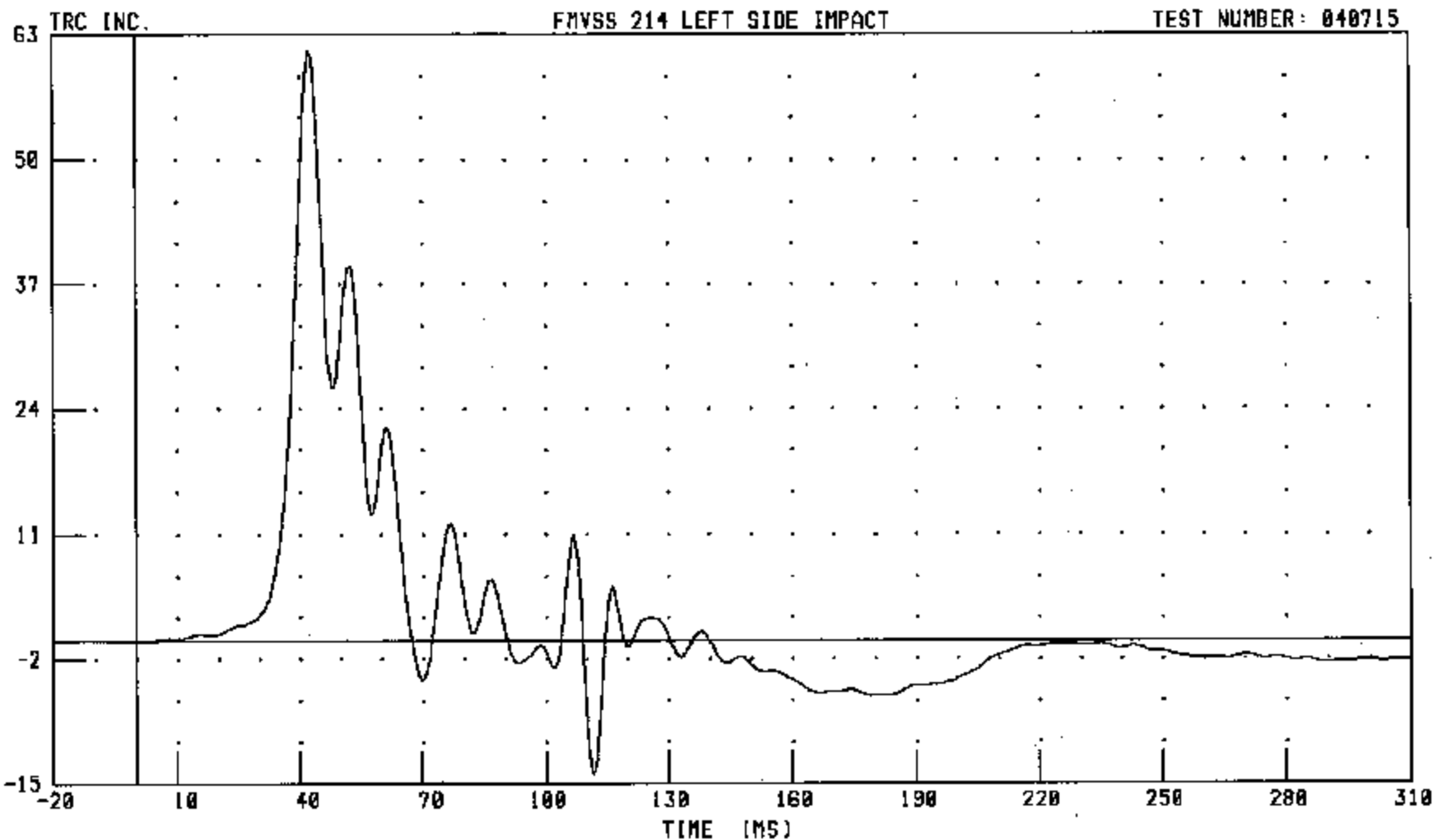
B-120

040715-1

48/24 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2004 MAZDA 3
LEFT REAR PASSENGER LOWER RIB Y-AXIS REDUNDANT ACCELERATION

FMVSS 214 LEFT SIDE IMPACT

TEST NUMBER: 040715



CHANNEL: LLRYR4 FILTER: FIR 100

PEAK DATA: 61.23 G @ 42.50 MS, -14.04 G @ 111.88 MS

B-121

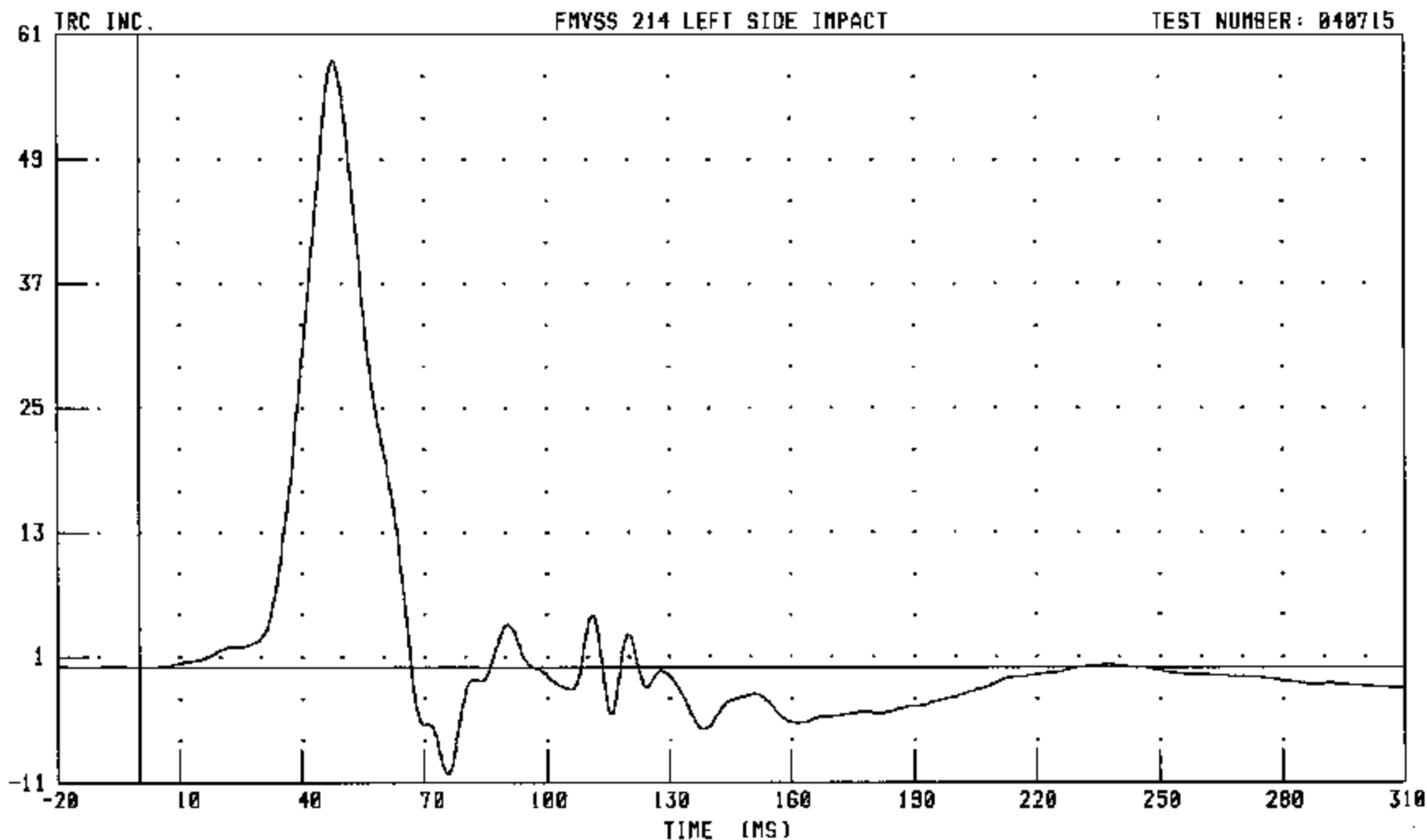
040715-1

48/24 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2004 MAZDA 3

LEFT REAR PASSENGER LOWER SPINE Y-AXIS REDUNDANT ACCELERATION

FMVSS 214 LEFT SIDE IMPACT

TEST NUMBER: 040715



CHANNEL: T12YR4 FILTER: FIR 100

PEAK DATA: 58.46 G @ 48.13 MS, -10.23 G @ 75.62 MS

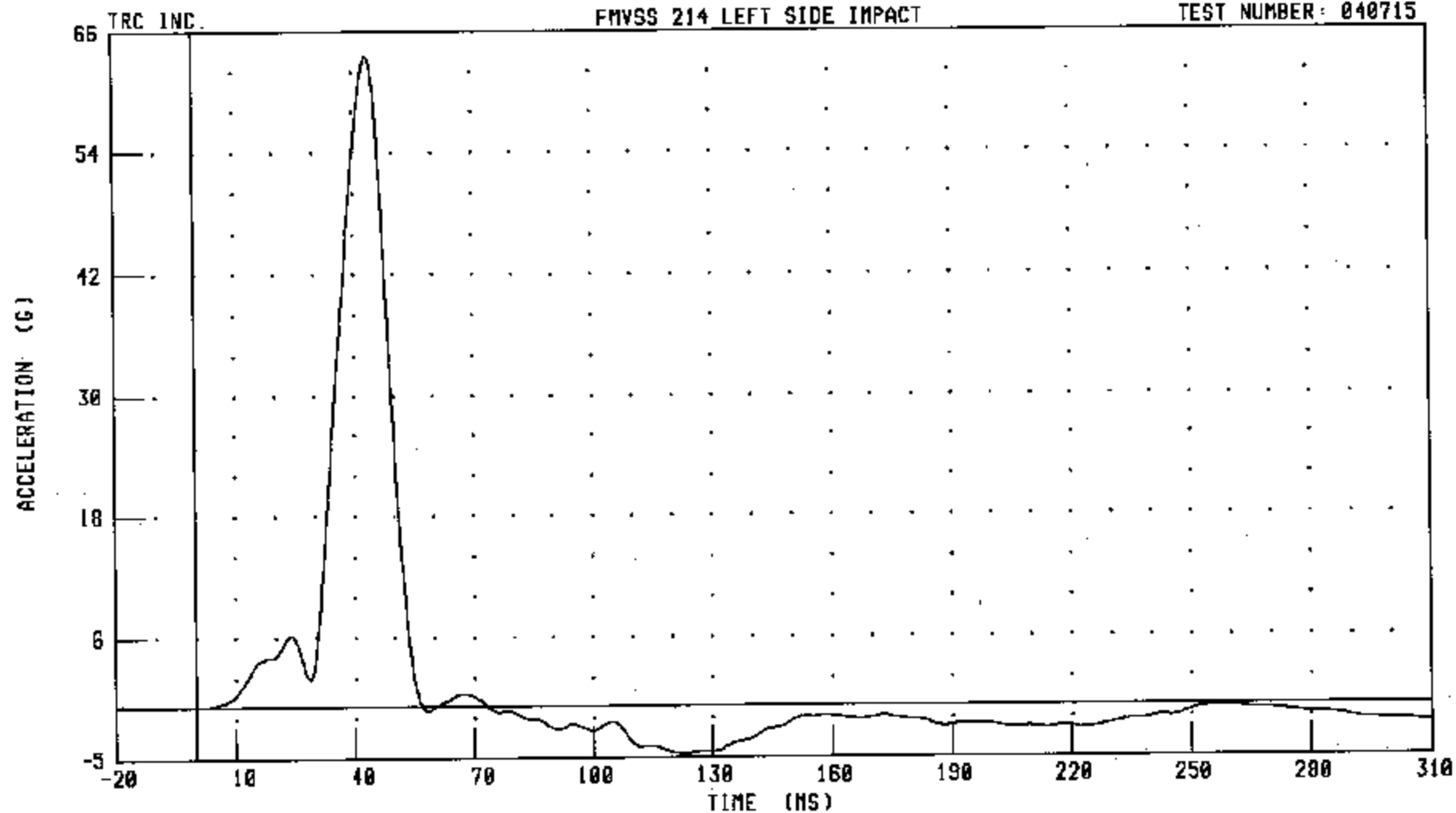
B-122

040715-1

48/24 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2004 MAZDA 3
LEFT REAR PASSENGER PELVIS Y-AXIS REDUNDANT ACCELERATION

FMVSS 214 LEFT SIDE IMPACT

TEST NUMBER: 040715



CHANNEL: PEVYR4 FILTER: FIR 100

B-123

040715-1

Appendix C

SID Configuration and Performance Verification Data

Summary
SID Pre-Test and Post-Test Calibration
Configured For Left Side Impact

Date: 07/04/04 - 07/21/04 TRC Inc. Test Number: S/N065 & S/N066

Laboratory Technician: Vincent Olivieri

Test Parameter	Specification	SID 065		SID 066	
		Pre-Test	Post-Test	Pre-Test	Post-Test
SH - Seated Height (mm)	889-909	899	901	903	900
RH - Rib Height (mm)	502-520	510	509	507	505
HP - Hip Pivot Height (mm)	99 ref	99.1	99.1	99.1	99.1
RD - Rib from Back Line (mm)	229-241	238	237	237	235
KH - Knee Pivot from Back Line (mm)	511-526	519	523	522	522
KV - Knee Pivot to Floor (mm)	490-505	492	495	498	493
HW - Hip Width (mm)	356-391	371	365	372	366
Thorax Impacts					
Temperature (°C)	18.9-25.5	21.7	22.6	22.2	22.7
Relative Humidity (%)	10-70	53	55	51	55
Probe Speed (m/s)	4.27-4.33	4.32	4.33	4.32	4.32
Upper Rib (g's)	37-46	40.3	38.4	39.6	42.4
Lower Rib (g's)	37-46	39.1	37.1	38.5	43.8
Lower Spine (g's)	15-22	19.2	19.8	18.2	18.8
Pelvis Impacts					
Temperature (°C)	18.9-25.5	21.5	22.6	22.1	22.6
Relative Humidity (%)	10-70	52	54	53	55
Probe Speed (m/s)	4.27-4.33	4.28	4.28	4.28	4.29
Pelvis (g's)	40-60	50.1	51.1	49.2	51.7

Calibration Test Results

Pre-Test

SID: 065

Configured for Left Side Impact

External Dimensions:	The dummy passed all external dimension requirements.
Lateral Thorax Impact Test:	The lateral thorax passed all impact test requirements.
Lumbar Flexion Test:	The dummy met the lumbar flexion test requirements.
Abdominal Compression Test:	The abdomen met the compression test requirements.
Pelvis Impact Test:	The lateral pelvis passed all impact test requirements.
Thoracic Shock Absorber Test:	The thoracic shock absorber passed all test requirements.

Transportation Research Center Inc.
572F SID Dummy
External Dimensions
Serial No. 065 Calibration No. 12
07/12/04

Test Parameter	Dimension	Specification	Results	Pass
Seated Height	SH	889.0 - 909.3 mm	899 mm	Yes
Rib Height	RH	501.7 - 520.7 mm	510 mm	Yes
Hip Pivot Height	HP	99.1 REF mm	99.1 mm	
Rib From Backline	RD	228.6 - 241.3 mm	238 mm	Yes
Knee Pivot From Backline	KH	510.5 - 525.8 mm	519 mm	Yes
Knee Pivot From Floor	KV	490.2 - 505.5 mm	492 mm	Yes
Hip Width	HW	355.6 - 391.2 mm	371 mm	Yes
Top Rib Width From CL	RW-1	165.1 - 180.3 mm	172 mm	Yes
Bottom Rib Width From CL	RW-2	165.1 - 180.3 mm	171 mm	Yes
Difference Between Top & Bottom Rib Width from CL		$\leq$ 2.5 mm	1.0 mm	Yes

Technician

Vincent Oliver

Approved

V.F. Watts

TRE

Transportation Research Center Inc.

572F Damper Test

SID Serial No. 065 Calibration No. 12 - A

Test Date 07/06/2004

Test Parameter	Specification	Test Results	Pass
Temperature	18.9 - 25.5 C	21.5 C	Yes
Relative Humidity	10 - 70 %	55 %	Yes
Pendulum Velocity		2.71 m/sec	
Maximum Force at Test Velocity	652 - 907 N	776 N	Yes
Maximum Displacement at Test Velocity	29.7 - 34.4 mm	30.8 mm	Yes

Test meets specifications.

Comments:

Damper Setting : 6.0

Technician

Kuan-Ding

Approved

V. F. Watter

09.09.2004 08:10:17 1522



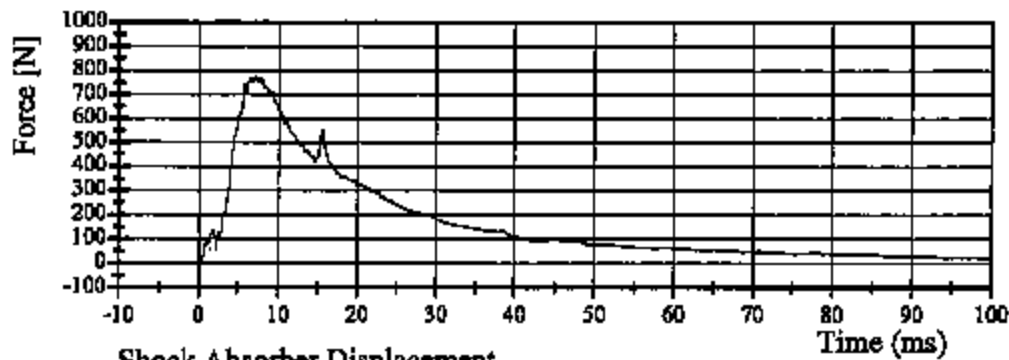
Transportation Research Center Inc.

572F Damper Test

SID Serial No. 065 Calibration No. 12 - A

Test Date 07/06/2004

Shock Absorber Resistive Force

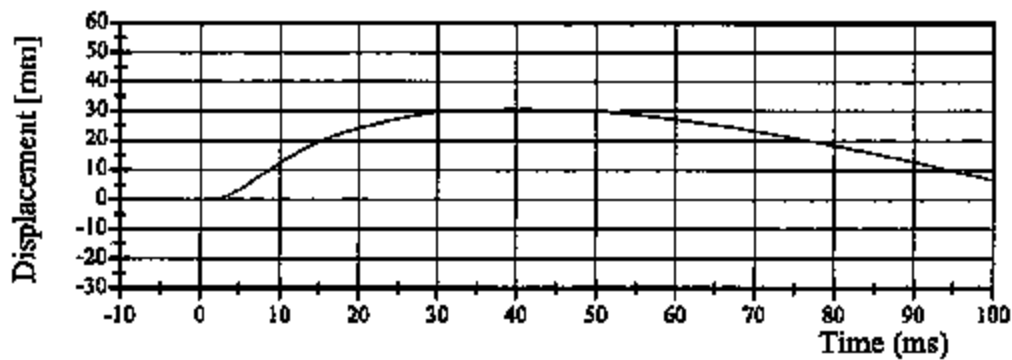


Filter Class: 1000

Max: 776 N at 7.1 ms

Min: -1519 N at 110.3 ms

Shock Absorber Displacement



Filter Class: 1000

Max: 30.8 mm at 39.0 ms

Min: -0.2 mm at 110.5 ms

Transportation Research Center Inc.

572F Damper Test

SID Serial No. 065 Calibration No. 12 - B

Test Date 07/06/2004

Test Parameter	Specification	Test Results	Pass
Temperature	18.9 - 25.5 C	21.6 C	Yes
Relative Humidity	10 - 70 %	56 %	Yes
Pendulum Velocity		4.27 m/sec	
Maximum Force at Test Velocity	1736 - 2099 N	1947 N	Yes
Maximum Displacement at Test Velocity	31.7 - 37.2 mm	35.8 mm	Yes

Test meets specifications.

Comments:

Damper Setting : 6.0

Technician

Vincent Atkins

Approved

V. J. Walter

09.09.2004 08:13:48 1193



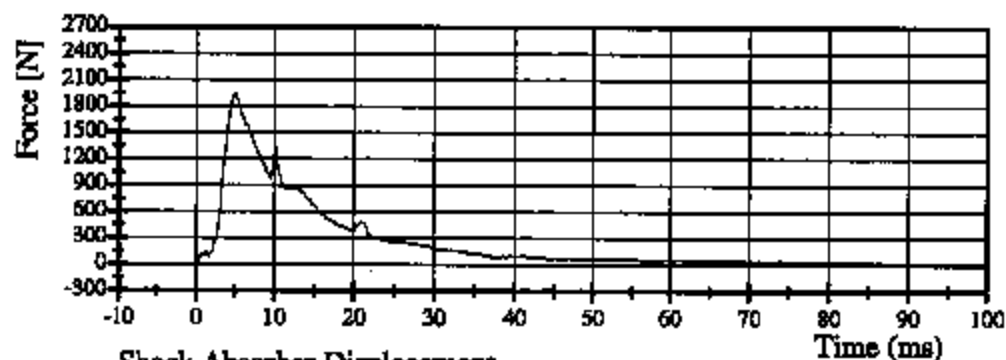
Transportation Research Center Inc.

572F Damper Test

SID Serial No. 065 Calibration No. 12 - B

Test Date 07/06/2004

Shock Absorber Resistive Force

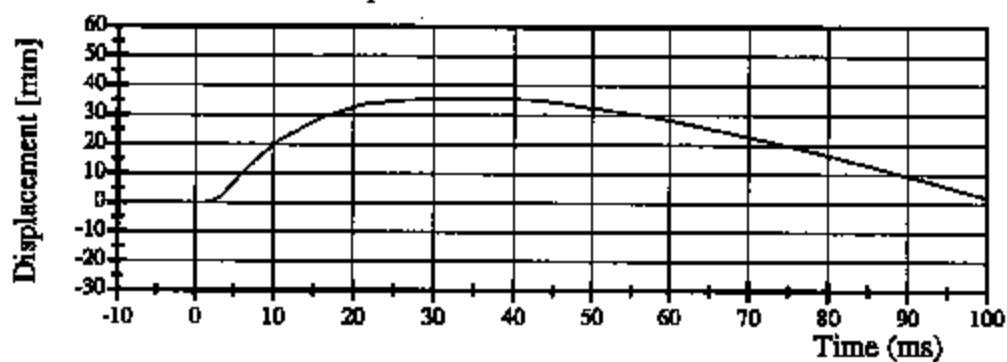


Filter Class: 1000

Max: 1947 N at 5.0 ms

Min: -1570 N at 103.0 ms

Shock Absorber Displacement



Filter Class: 1000

Max: 35.8 mm at 38.0 ms

Min: -0.2 mm at 103.2 ms

09.09.2004 08:13:49 1193

TRE

Transportation Research Center Inc.

572F Damper Test

SID Serial No. 065 Calibration No. 12 - C

Test Date 07/06/2004

Test Parameter	Specification	Test Results	Pass
Temperature	18.9 - 25.5 C	21.4 C	Yes
Relative Humidity	10 - 70 %	54 %	Yes
Pendulum Velocity		6.12 m/sec	
Maximum Force at Test Velocity	3777 - 4476 N	4054 N	Yes
Maximum Displacement at Test Velocity	33.4 - 39.6 mm	37.6 mm	Yes

Test meets specifications.

Comments:

Damper Setting : 6.0

Technician

Vincent Oliver

Approved

V. F. Walton

09.09.2004 08:17:35 1022



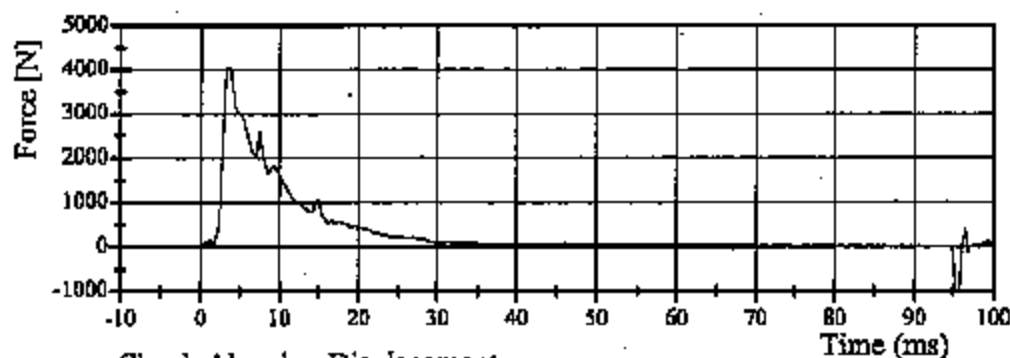
Transportation Research Center Inc.

572F Damper Test

SID Serial No. 065 Calibration No. 12 - C

Test Date 07/06/2004

Shock Absorber Resistive Force

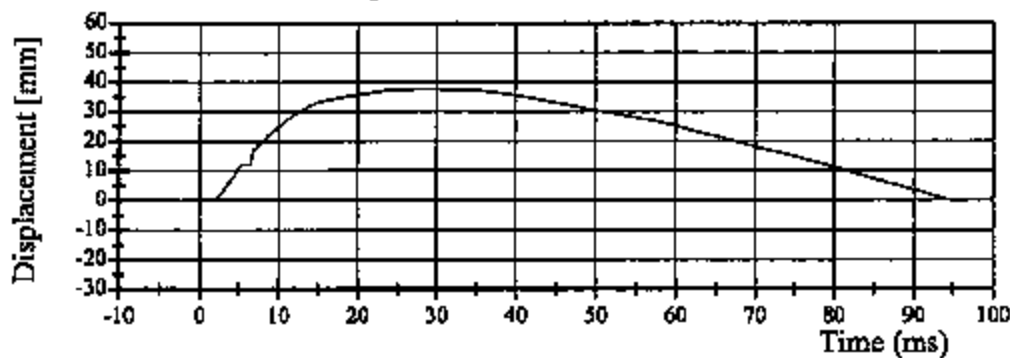


Filter Class: 1000

Max: 4054 N at 3.4 ms

Min: -1411 N at 95.4 ms

Shock Absorber Displacement



Filter Class: 1000

Max: 37.6 mm at 28.2 ms

Min: -0.5 mm at 95.8 ms

07.16.2004 14:32:19 1022



Transportation Research Center Inc.

572F Left Side Thorax Test

SID Serial No. 065 Calibration No. 12 - 3

Test Date 07/12/2004

Test Parameter	Specification	Test Results	Pass
Temperature	18.9 - 25.5 C	21.7 C	Yes
Relative Humidity	10 - 70 %	53 %	Yes
Pendulum Velocity	4.27 - 4.33 m/sec	4.32 m/sec	Yes
Upper Rib Bar Peak Acceleration	37 - 46 g	40.3 g	Yes
Lower Rib Bar Peak Acceleration	37 - 46 g	39.1 g	Yes
Lower Thoracic Spine (T12) Peak Acceleration	15 - 22 g	19.2 g	Yes

Test meets specifications.

Comments:

Technician



Approved



07.12.2004 13:34:33 1128

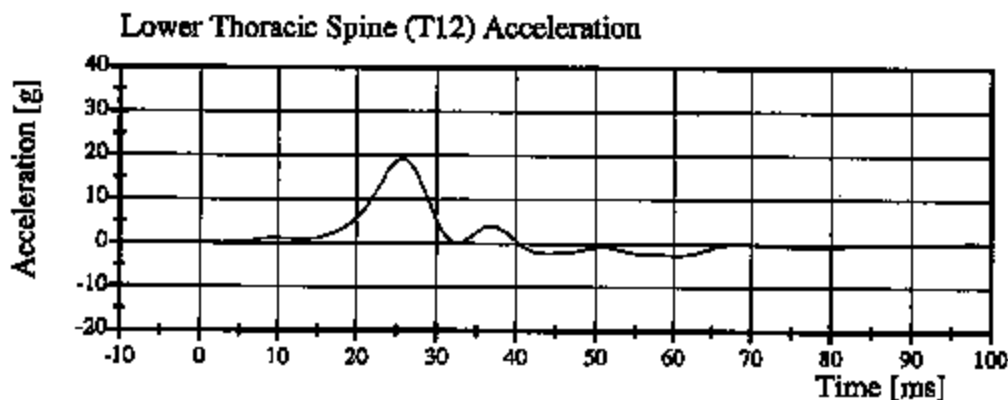
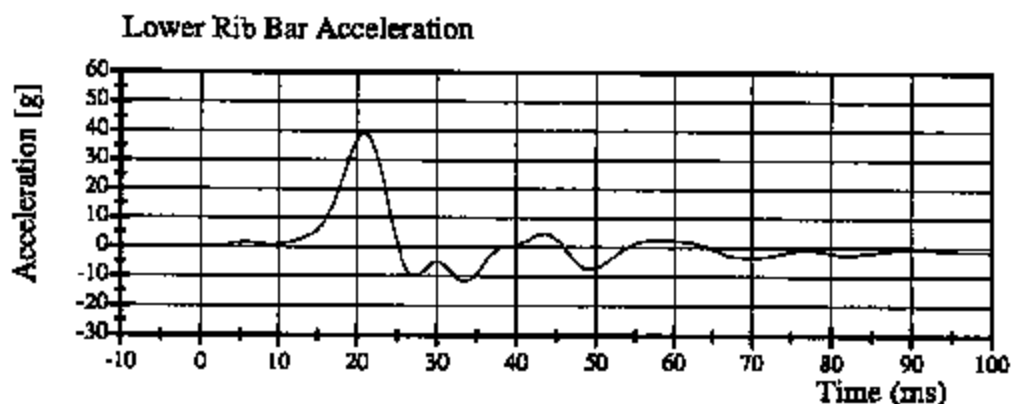
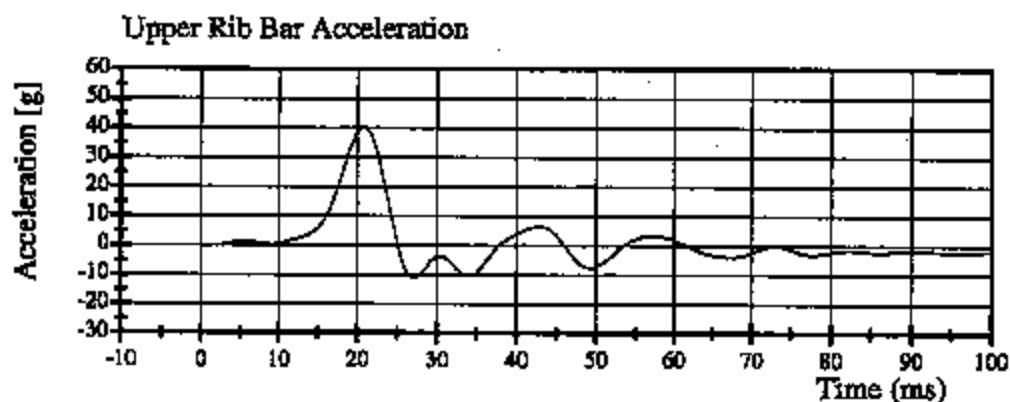


Transportation Research Center Inc.

572F Left Side Thorax Test

SID Serial No. 065 Calibration No. 12 - 3

Test Date 07/12/2004



07.12.2004 13:34:34 1128



TRANSPORTATION RESEARCH CENTER INC.

LUMBAR FLEXION TEST

SID PART 572B

CAL DATE: 07-Jul-04

TRC, INC.

TEST NO: 065C12TF2

572B SN 065 TORSO FLEX CAL 12

TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE	18.9 - 25.6° C	21.5 °C
RELATIVE HUMIDITY	10 - 70 %	62 %
FORCE AT 0 DEG. FLEXION	-27 - 27 N	0 N
FORCE AT 20 DEG OF FLEXION	98 - 151 N	142.3 N
FORCE AT 30 DEG OF FLEXION	151 - 205 N	164.6 N
FORCE AT 40 DEG OF FLEXION	205 - 258 N	235.8 N
NET RETURN ANGLE AFTER 3 MINUTES	< 12 °	7.8 °

TEST MEETS SPECIFICATIONS

TECHNICIAN



Transportation Research Center Inc.

572B Abdomen Compression Test

SID Serial No. 065 Calibration No. 12 - 2

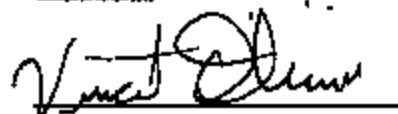
Test Date 07/09/2004

Test Parameter	Specification	Test Results	Pass
Temperature	18.9 - 25.5 °C	21.4 °C	Yes
Relative Humidity	10 - 70 %	54 %	Yes
Displacement Rate	6.35 - 8.89 mm/s	7.7 - 8.0 mm/s	Yes
Data Within Required Corridor	Yes	Yes	Yes

Test meets specifications.

Comments:

Technician



Approved



07.09.2004 08:52:22 1584

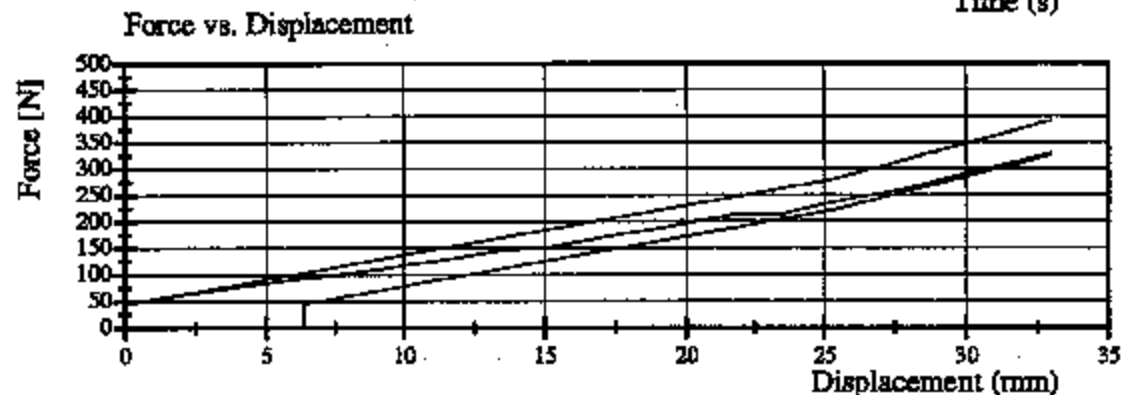
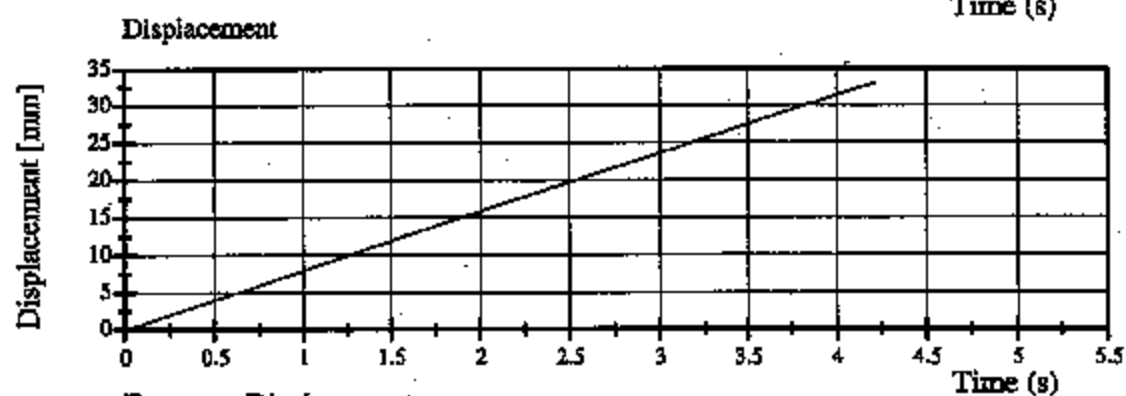
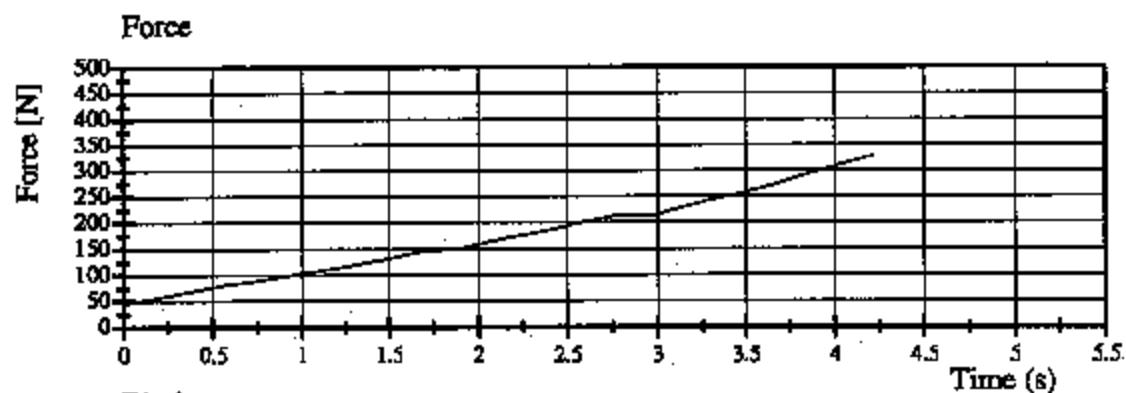
TRE

Transportation Research Center Inc.

572B Abdomen Compression Test

SID Serial No. 065 Calibration No. 12 - 2

Test Date 07/09/2004



07.09.2004 08:52:23 1584



Transportation Research Center Inc.

572F Left Side Pelvis Test

SID Serial No. 065 Calibration No. 12 - 1

Test Date 07/12/2004

Test Parameter	Specification	Test Results	Pass
Temperature	18.9 - 25.5 C	21.5 C	Yes
Relative Humidity	10 - 70 %	52 %	Yes
Pendulum Velocity	4.27 - 4.33 m/sec	4.28 m/sec	Yes
Pelvis Peak Acceleration	40 - 60 g	50.1 g	Yes
Time Above 20 g	3 - 7 ms	5.84 ms	Yes
Unimodal requirement for pelvis acceleration	Yes	Yes	Yes

Comments:

Technician

Vincent Oliver

Approved

V. F. Watters

07.12.2004 11:44:29 1190

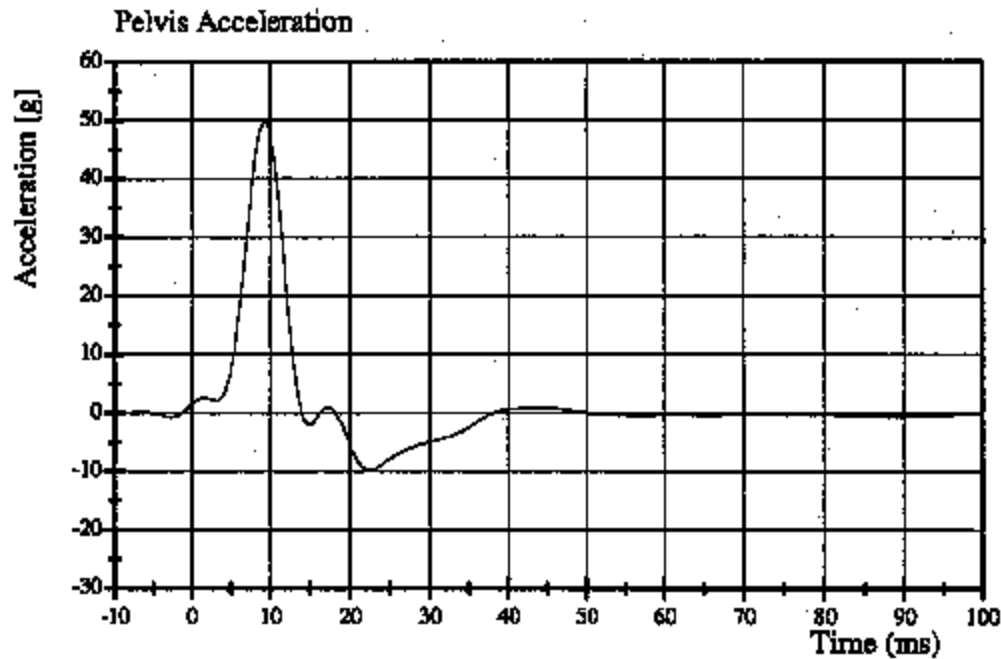


Transportation Research Center Inc.

572F Left Side Pelvis Test

SID Serial No. 065 Calibration No. 12 - 1

Test Date 07/12/2004



Filter Class: FIR 100

Max: 50.1 g at 9.3 ms

Min: -9.7 g at 22.4 ms

07.12.2004 11:44:30 1190



Calibration Test Results

Pre-Test

SID: 066

Configured for Left Side Impact

External Dimensions:	The dummy passed all external dimension requirements.
Lateral Thorax Impact Test:	The lateral thorax passed all impact test requirements.
Lumbar Flexion Test:	The dummy met the lumbar flexion test requirements.
Abdominal Compression Test:	The abdomen met the compression test requirements.
Pelvis Impact Test:	The lateral pelvis passed all impact test requirements.
Thoracic Shock Absorber Test:	The thoracic shock absorber passed all test requirements.

Transportation Research Center Inc.

572F SID Dummy

External Dimensions

Serial No. 066 Calibration No. 11

7/14/04

Test Parameter	Dimension	Specification	Results	Pass
Seated Height	SH	889.0 - 909.3 mm	903 mm	Yes
Rib Height	RH	501.7 - 520.7 mm	507 mm	Yes
Hip Pivot Height	HP	99.1 REF mm	99.1 mm	
Rib From Backline	RD	228.6 - 241.3 mm	237 mm	Yes
Knee Pivot From Backline	KH	510.5 - 525.8 mm	522 mm	Yes
Knee Pivot From Floor	KV	490.2 - 505.5 mm	498 mm	Yes
Hip Width	HW	355.6 - 391.2 mm	372 mm	Yes
Top Rib Width From CL	RW-1	165.1 - 180.3 mm	172 mm	Yes
Bottom Rib Width From CL	RW-2	165.1 - 180.3 mm	172 mm	Yes
Difference Between Top & Bottom Rib Width from CL		≤ 2.5 mm	0.0 mm	Yes

Technician

Vincent Oliver

Approved

V.F. Walter

TRE

Transportation Research Center Inc.

572F Damper Test

SID Serial No. 066 Calibration No. 11 - A

Test Date 07/06/2004

Test Parameter	Specification	Test Results	Pass
Temperature	18.9 - 25.5 C	21.7 C	Yes
Relative Humidity	10 - 70 %	61 %	Yes
Pendulum Velocity		2.71 m/sec	
Maximum Force at Test Velocity	650 - 904 N	774 N	Yes
Maximum Displacement at Test Velocity	29.6 - 34.4 mm	30.7 mm	Yes

Test meets specifications.

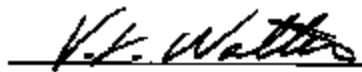
Comments:

Damper Setting : 5.3

Technician



Approved



09.09.2004 08:27:53 1542



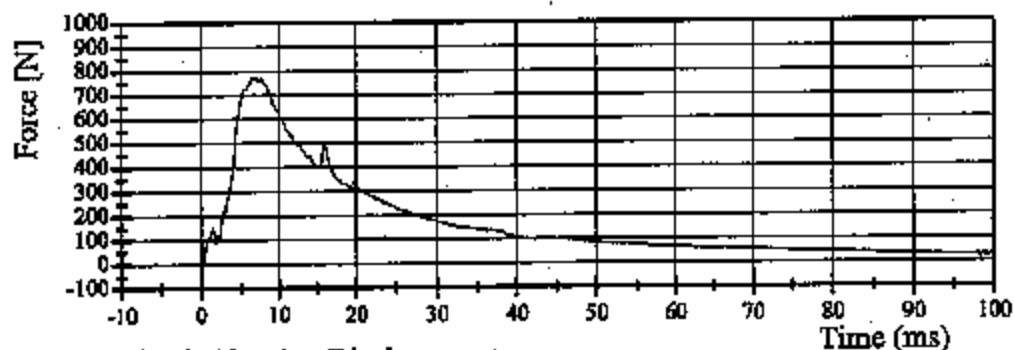
Transportation Research Center Inc.

572F Damper Test

SID Serial No. 066 Calibration No. 11 - A

Test Date 07/06/2004

Shock Absorber Resistive Force

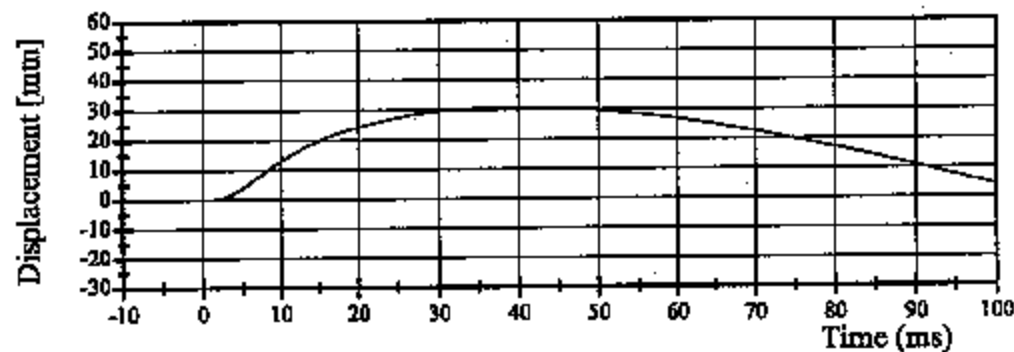


Filter Class: 1000

Max: 774 N at 7.0 ms

Min: -1335 N at 106.0 ms

Shock Absorber Displacement



Filter Class: 1000

Max: 30.7 mm at 37.8 ms

Min: -0.3 mm at 106.1 ms

07.16.2004 14:33:44 1542



Transportation Research Center Inc.

572F Damper Test

SID Serial No. 066 Calibration No. 11 - B

Test Date 07/06/2004

Test Parameter	Specification	Test Results	Pass
Temperature	18.9 - 25.5 C	21.5 C	Yes
Relative Humidity	10 - 70 %	60 %	Yes
Pendulum Velocity		4.28 m/sec	
Maximum Force at Test Velocity	1747 - 2111 N	1879 N	Yes
Maximum Displacement at Test Velocity	31.7 - 37.2 mm	36.0 mm	Yes

Test meets specifications.

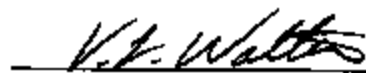
Comments:

Damper Setting : 5.3

Technician



Approved



09.09.2004 08:29:21 1202



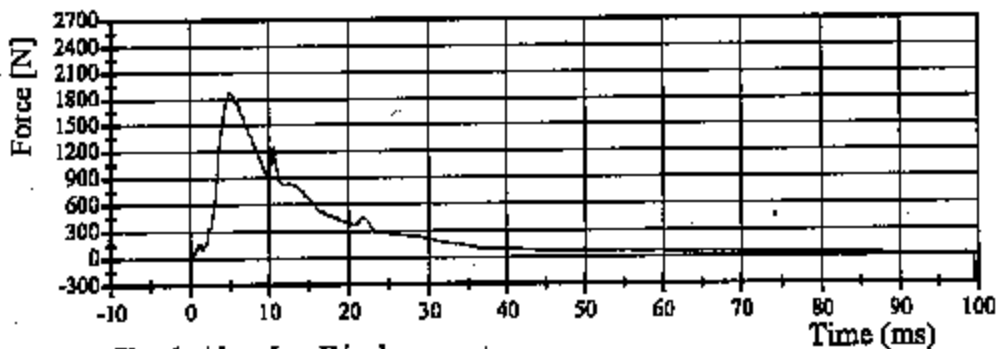
Transportation Research Center Inc.

572F Damper Test

SID Serial No. 066 Calibration No. 11 - B

Test Date 07/06/2004

Shock Absorber Resistive Force

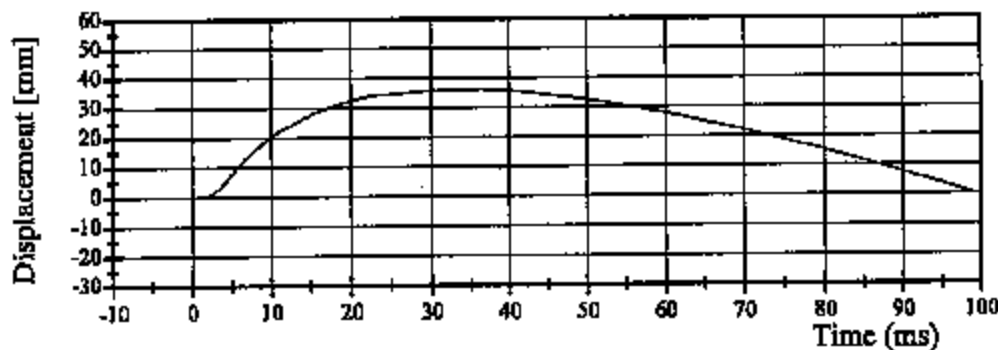


Filter Class: 1000

Max: 1879 N at 5.0 ms

Min: -1423 N at 99.9 ms

Shock Absorber Displacement



Filter Class: 1000

Max: 36.0 mm at 34.6 ms

Min: -0.3 mm at 99.8 ms

07.16.2004 14:34:20 1202



Transportation Research Center Inc.

572F Damper Test

SID Serial No. 066 Calibration No. 11 - C

Test Date 07/06/2004

Test Parameter	Specification	Test Results	Pass
Temperature	18.9 - 25.5 C	21.7 C	Yes
Relative Humidity	10 - 70 %	57 %	Yes
Pendulum Velocity		6.12 m/sec	
Maximum Force at Test Velocity	3777 - 4476 N	4441 N	Yes
Maximum Displacement at Test Velocity	33.4 - 39.6 mm	38.5 mm	Yes

Test meets specifications.

Comments:

Damper Setting : 5.3

Technician

Vincent Oliver

Approved

V. L. Watter

09.09.2004 08:30:22 1029

TRE

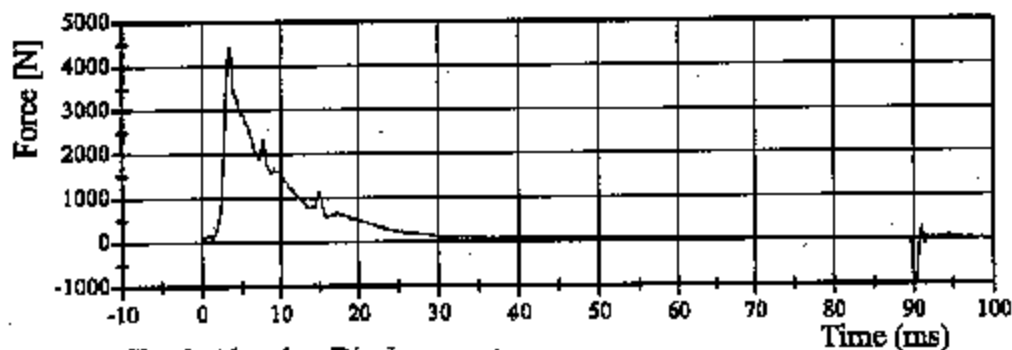
Transportation Research Center Inc.

572F Damper Test

SID Serial No. 066 Calibration No. 11 - C

Test Date 07/06/2004

Shock Absorber Resistive Force

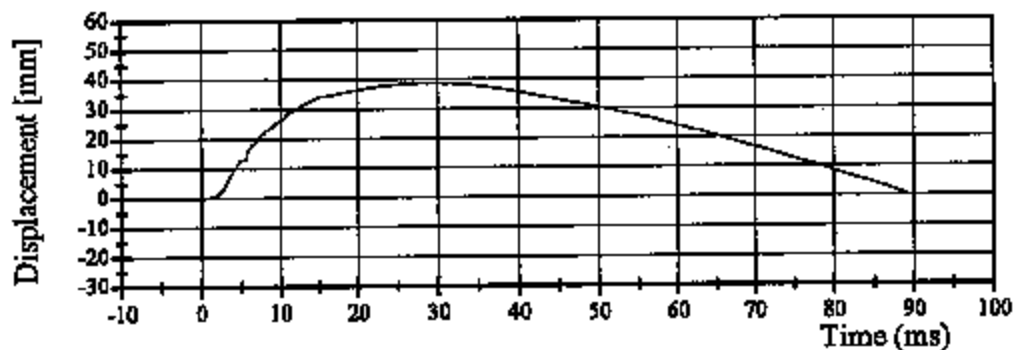


Filter Class: 1000

Max: 4441 N at 3.4 ms

Min: -1718 N at 90.2 ms

Shock Absorber Displacement



Filter Class: 1000

Max: 38.5 mm at 28.7 ms

Min: -0.3 mm at 90.2 ms

07.16.2004 14:34:55 1029

TRE

Transportation Research Center Inc.

572F Left Side Thorax Test

SID Serial No. 066 Calibration No. 11 - 3

Test Date 07/14/2004

Test Parameter	Specification	Test Results	Pass
Temperature	18.9 - 25.5 C	22.2 C	Yes
Relative Humidity	10 - 70 %	51 %	Yes
Pendulum Velocity	4.27 - 4.33 m/sec	4.32 m/sec	Yes
Upper Rib Bar Peak Acceleration	37 - 46 g	39.6 g	Yes
Lower Rib Bar Peak Acceleration	37 - 46 g	38.5 g	Yes
Lower Thoracic Spine (T12) Peak Acceleration	15 - 22 g	18.2 g	Yes

Test meets specifications.

Comments:

Technician

Vincent A. Dineen

Approved

V. J. Walther

07.14.2004 10:34:46 1196



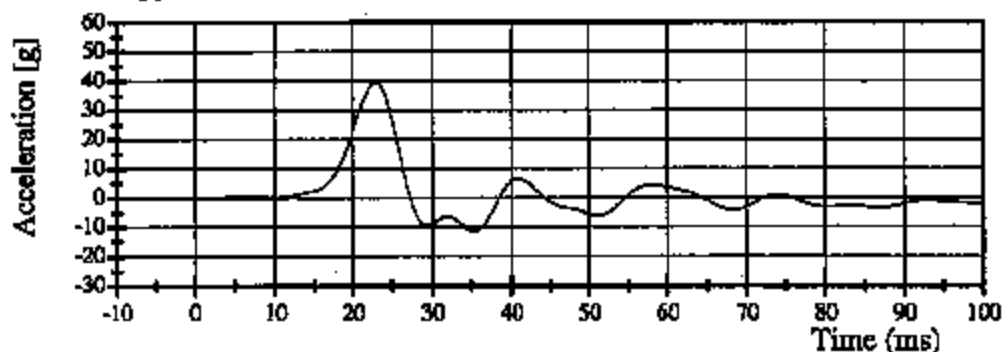
Transportation Research Center Inc.

572F Left Side Thorax Test

SID Serial No. 066 Calibration No. 11 - 3

Test Date 07/14/2004

Upper Rib Bar Acceleration

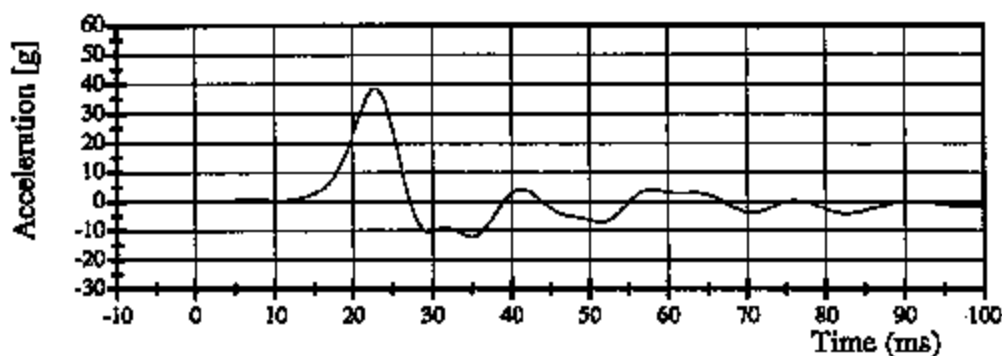


Filter Class: FIR 100

Max: 39.6 g at 23.1 ms

Min: -11.6 g at 35.0 ms

Lower Rib Bar Acceleration

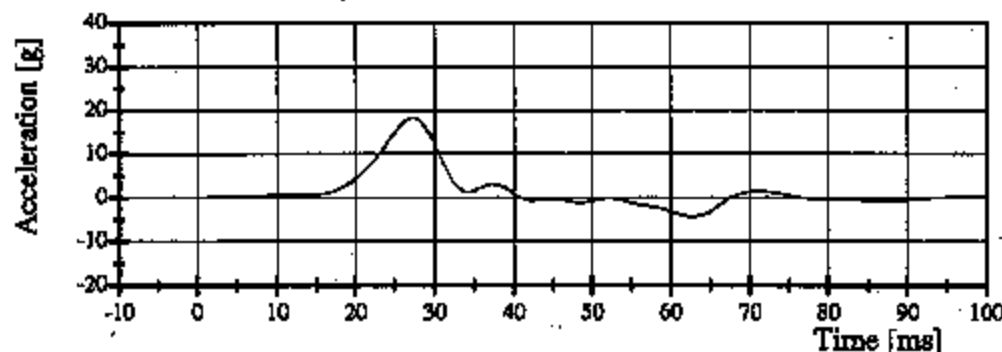


Filter Class: FIR 100

Max: 38.5 g at 23.1 ms

Min: -12.0 g at 35.0 ms

Lower Thoracic Spine (T12) Acceleration



Filter Class: FIR 100

Max: 18.2 g at 27.5 ms

Min: -4.4 g at 62.6 ms

07.14.2004 10:34:48 1196



TRANSPORTATION RESEARCH CENTER INC.

LUMBAR FLEXION TEST

SID PART 572B

CAL DATE: 07-Jul-04

TRC, INC.

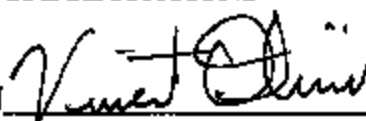
TEST NO: 066C11TF2

572B SN 066 TORSO FLEX CAL 11

TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE	18.9 – 25.6° C	21.3 °C
RELATIVE HUMIDITY	10 – 70 %	59 %
FORCE AT 0 DEG. FLEXION	-27 – 27 N	0 N
FORCE AT 20 DEG OF FLEXION	98 – 151 N	102.3 N
FORCE AT 30 DEG OF FLEXION	151 – 205 N	155.7 N
FORCE AT 40 DEG OF FLEXION	205 – 258 N	209.1 N
NET RETURN ANGLE AFTER 3 MINUTES	< 12 °	7.8 °

TEST MEETS SPECIFICATIONS

TECHNICIAN



Transportation Research Center Inc.

572H Abdomen Compression Test

SID Serial No. 066 Calibration No. 11 - 6

Test Date 07/08/2004

Test Parameter	Specification	Test Results	Pass
Temperature	18.9 - 25.5 °C	21.5 °C	Yes
Relative Humidity	10 - 70 %	56 %	Yes
Displacement Rate	6.35 - 8.89 mm/s	7.7 - 8.0 mm/s	Yes
Data Within Required Corridor	Yes	Yes	Yes

Test meets specifications.

Comments:

Technician

Vincent Oliveri

Approved

V. J. Walther

07/08/2004 15:06:55 2127

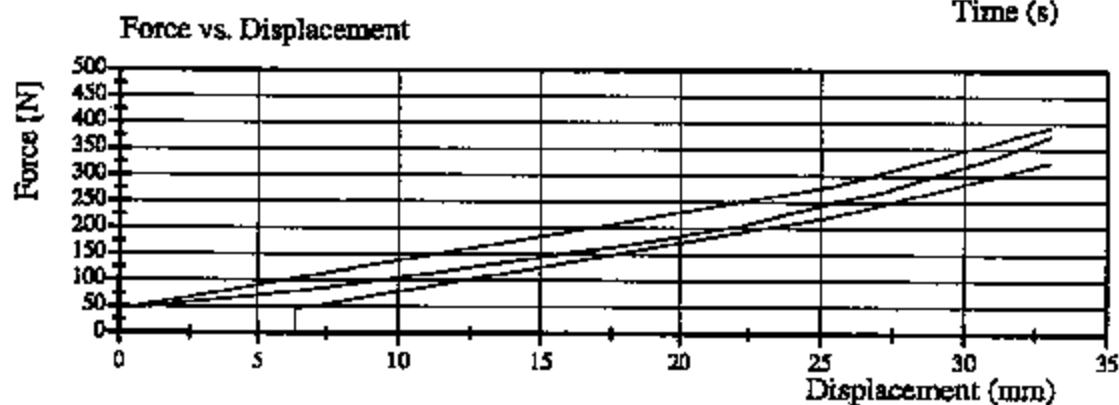
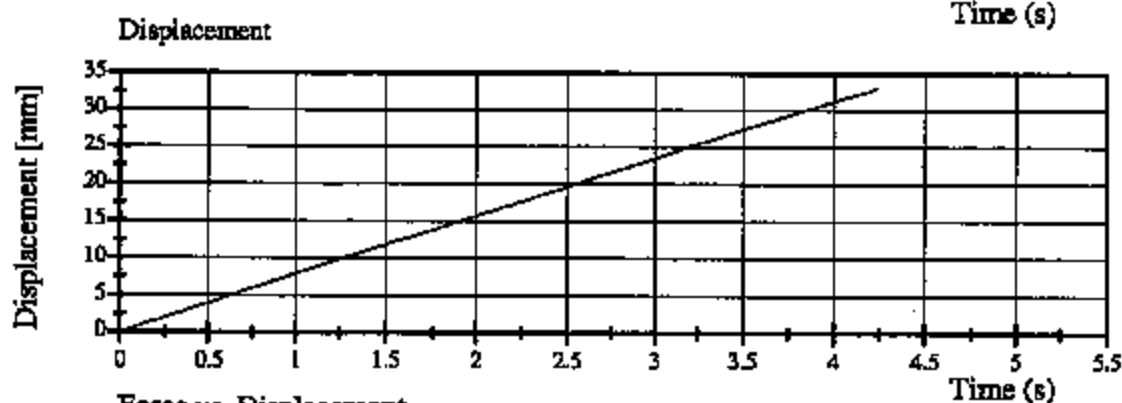
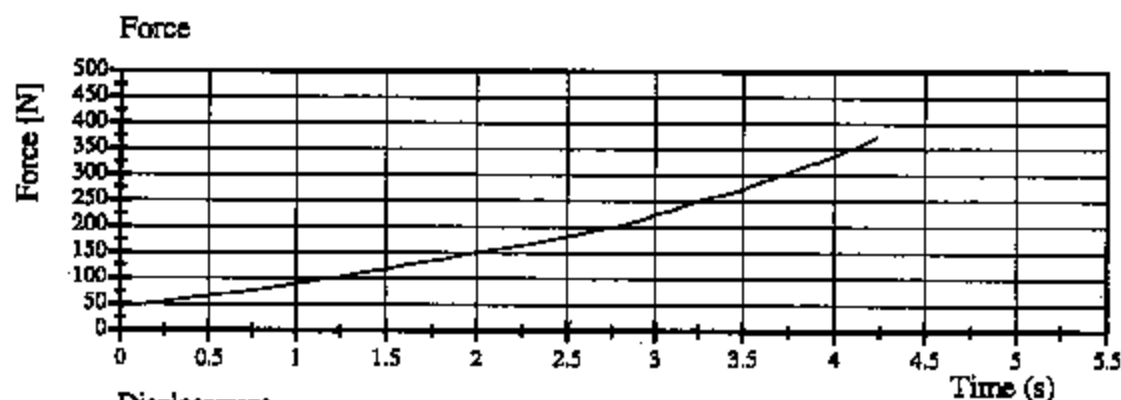
TRE

Transportation Research Center Inc.

572B Abdomen Compression Test

SID Serial No. 066 Calibration No. 11 - 6

Test Date 07/08/2004



07.08.2004 15:06:56 2127

TRE

Transportation Research Center Inc.

572F Left Side Pelvis Test

SID Serial No. 066 Calibration No. 11 - 1

Test Date 07/13/2004

Test Parameter	Specification	Test Results	Pass
Temperature	18.9 - 25.5 C	22.1 C	Yes
Relative Humidity	10 - 70 %	53 %	Yes
Pendulum Velocity	4.27 - 4.33 m/sec	4.28 m/sec	Yes
Pelvis Peak Acceleration	40 - 60 g	49.2 g	Yes
Time Above 20 g	3 - 7 ms	6.08 ms	Yes
Unimodal requirement for pelvis acceleration	Yes	Yes	Yes

Comments:

Technician

Vincent D. Smith

Approved

V. F. Walton

07.13.2004 15:21:12 1197

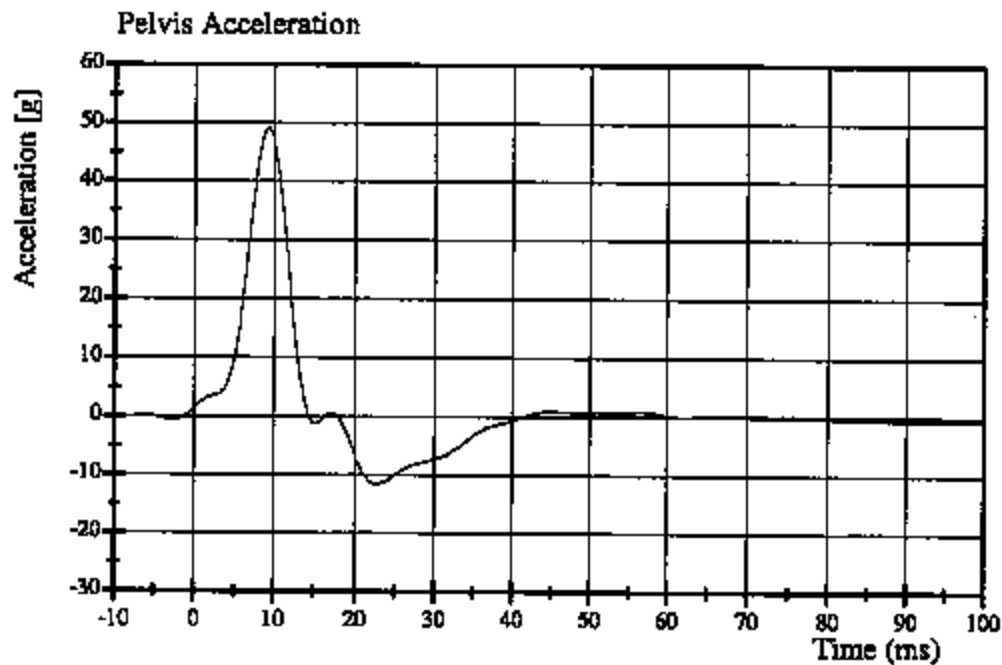


Transportation Research Center Inc.

572F Left Side Pelvis Test

SID Serial No. 066 Calibration No. 11 - 1

Test Date 07/13/2004



Filter Class: FIR 100

Max: 49.2 g at 9.3 ms

Min: -11.6 g at 22.5 ms

07.13.2004 15:21:13 1197



Calibration Test Results

Post-Test

SID: 065

Configured for Left Side Impact

External Dimensions:	The dummy passed all external dimension requirements.
Lateral Thorax Impact Test:	The lateral thorax passed all impact test requirements.
Lumbar Flexion Test:	The dummy met the lumbar flexion test requirements.
Abdominal Compression Test:	The abdomen met the compression test requirements.
Pelvis Impact Test:	The lateral pelvis passed all impact test requirements.
Thoracic Shock Absorber Test:	The thoracic shock absorber was not tested at this time.

Transportation Research Center Inc.
572F SID Dummy
External Dimensions
Serial No. 065 Calibration No. 13
07/21/04

Test Parameter	Dimension	Specification	Results	Pass
Seated Height	SH	889.0 - 909.3 mm	901 mm	Yes
Rib Height	RH	501.7 - 520.7 mm	509 mm	Yes
Hip Pivot Height	HP	99.1 REF mm	99.1 mm	
Rib From Backline	RD	228.6 - 241.3 mm	237 mm	Yes
Knee Pivot From Backline	KH	510.5 - 525.8 mm	523 mm	Yes
Knee Pivot From Floor	KV	490.2 - 505.5 mm	495 mm	Yes
Hip Width	HW	355.6 - 391.2 mm	365 mm	Yes
Top Rib Width From CL	RW-1	165.1 - 180.3 mm	172 mm	Yes
Bottom Rib Width From CL	RW-2	165.1 - 180.3 mm	171 mm	Yes
Difference Between Top & Bottom Rib Width from CL		≤ 2.5 mm	1.0 mm	Yes

Technician

Vivian Oliver

Approved

K. J. Walter

TRE

Transportation Research Center Inc.

572P Left Side Thorax Test

SID Serial No. 065 Calibration No. 13 - 3

Test Date 07/21/2004

Test Parameter	Specification	Test Results	Pass
Temperature	18.9 - 25.5 C	22.6 C	Yes
Relative Humidity	10 - 70 %	55 %	Yes
Pendulum Velocity	4.27 - 4.33 m/sec	4.33 m/sec	Yes
Upper Rib Bar Peak Acceleration	37 - 46 g	38.4 g	Yes
Lower Rib Bar Peak Acceleration	37 - 46 g	37.1 g	Yes
Lower Thoracic Spine (T12) Peak Acceleration	15 - 22 g	19.8 g	Yes

Test meets specifications.

Comments:

Technician

Vincent Delmar

Approved

V. J. Walter

07.21.2004 13:00:06 1097

TRE

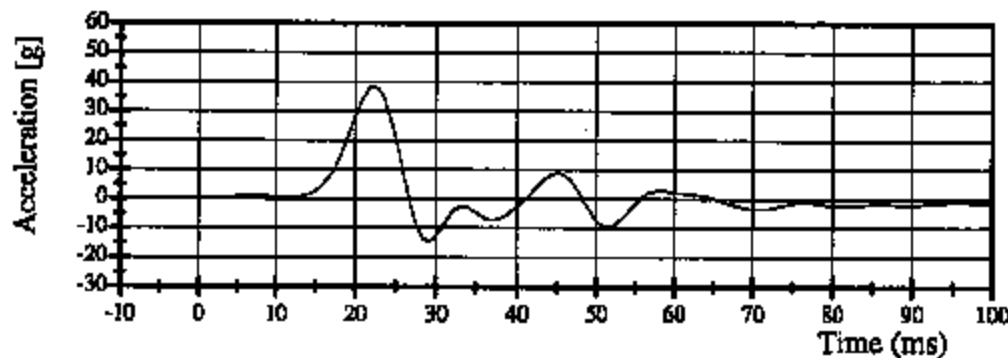
Transportation Research Center Inc.

572F Left Side Thorax Test

SID Serial No. 065 Calibration No. 13 - 3

Test Date 07/21/2004

Upper Rib Bar Acceleration

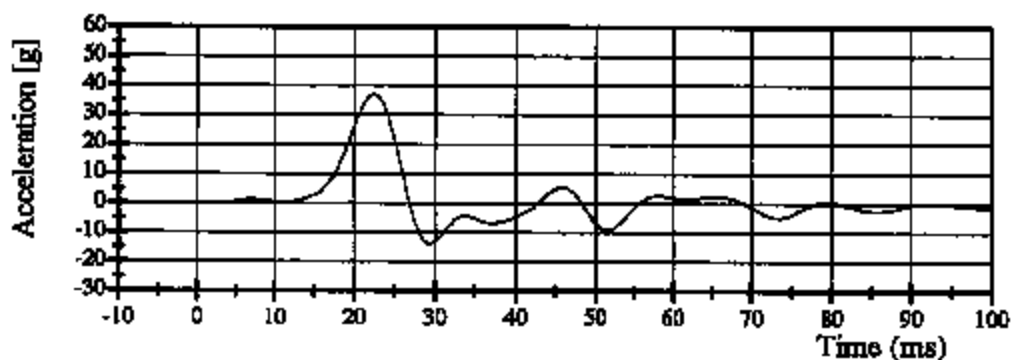


Filter Class: FIR 100

Max: 38.4 g at 22.3 ms

Min: -14.3 g at 29.2 ms

Lower Rib Bar Acceleration

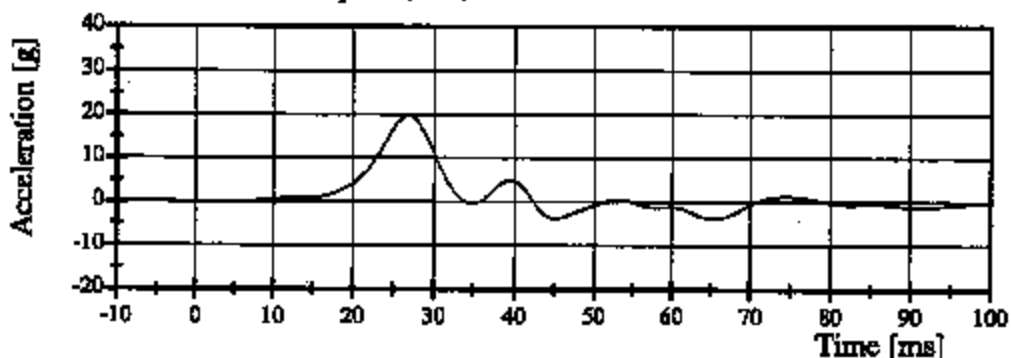


Filter Class: FIR 100

Max: 37.1 g at 22.3 ms

Min: -13.9 g at 29.2 ms

Lower Thoracic Spine (T12) Acceleration



Filter Class: FIR 100

Max: 19.8 g at 26.7 ms

Min: -3.9 g at 65.4 ms

07.21.2004 13:00:07 1097



TRANSPORTATION RESEARCH CENTER INC.

LUMBAR FLEXION TEST

SID PART 572B

CAL DATE: 20-Jul-04

TRC, INC.

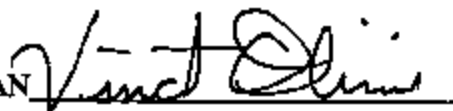
TEST NO: 065C13TF1

572B SN 065 TORSO FLEX CAL 13

TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE	18.9 - 25.6° C	21.7 °C
RELATIVE HUMIDITY	10 - 70 %	55 %
FORCE AT 0 DEG. FLEXION	-27 - 27 N	0 N
FORCE AT 20 DEG OF FLEXION	98 - 151 N	120.1 N
FORCE AT 30 DEG OF FLEXION	151 - 205 N	186.8 N
FORCE AT 40 DEG OF FLEXION	205 - 258 N	217.9 N
NET RETURN ANGLE AFTER 3 MINUTES	< 12 °	1.9 °

TEST MEETS SPECIFICATIONS

TECHNICIAN



Transportation Research Center Inc.

572B Abdomen Compression Test

SID Serial No. 065 Calibration No. 13 - 2

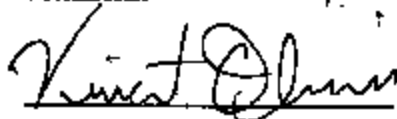
Test Date 07/20/2004

Test Parameter	Specification	Test Results	Pass
Temperature	18.9 - 25.5 °C	22.2 °C	Yes
Relative Humidity	10 - 70 %	55 %	Yes
Displacement Rate	6.35 - 8.89 mm/s	7.6 - 8.0 mm/s	Yes
Data Within Required Corridor	Yes	Yes	Yes

Test meets specifications.

Comments:

Technician



Approved



07.20.2004 15:23:34 1494

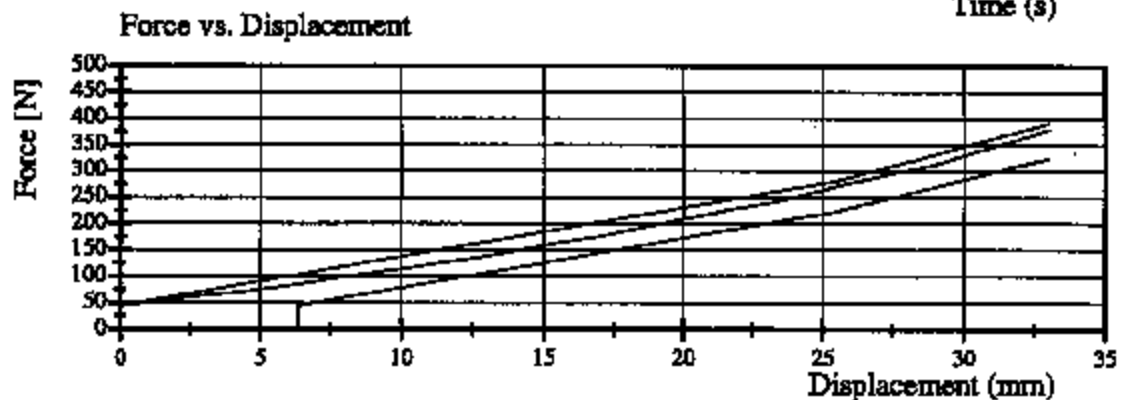
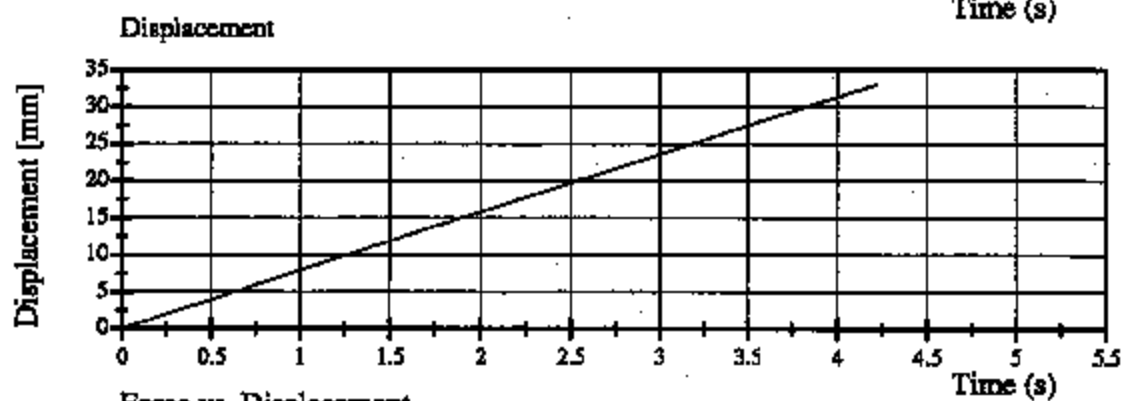
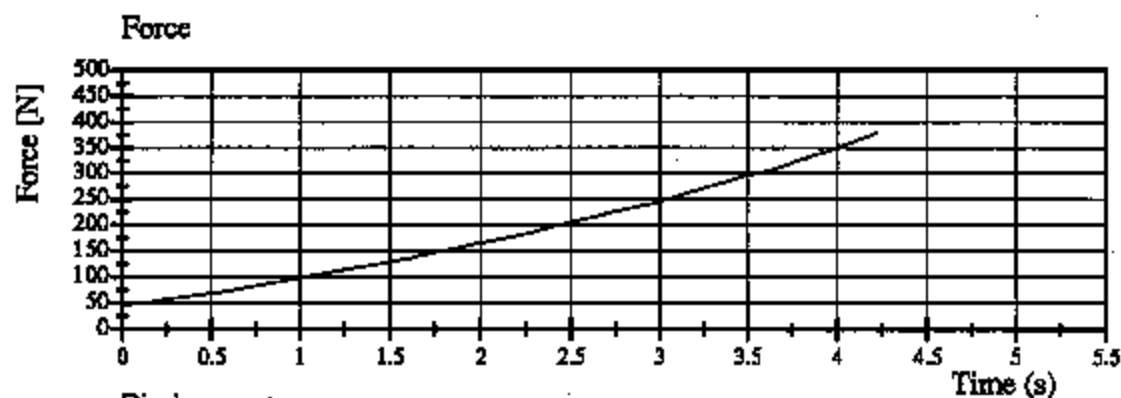
TRE

Transportation Research Center Inc.

572B Abdomen Compression Test

SID Serial No. 065 Calibration No. 13 - 2

Test Date 07/20/2004



07.20.2004 15:23:35 1494

TRE

Transportation Research Center Inc.

572F Left Side Pelvis Test

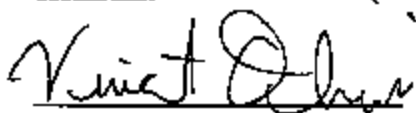
SID Serial No. 065 Calibration No. 13 - 1

Test Date 07/21/2004

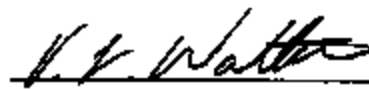
Test Parameter	Specification	Test Results	Pass
Temperature	18.9 - 25.5 C	22.6 C	Yes
Relative Humidity	10 - 70 %	54 %	Yes
Pendulum Velocity	4.27 - 4.33 m/sec	4.28 m/sec	Yes
Pelvis Peak Acceleration	40 - 60 g	51.1 g	Yes
Time Above 20 g	3 - 7 ms	5.84 ms	Yes
Unimodal requirement for pelvis acceleration	Yes	Yes	Yes

Comments:

Technician



Approved



07.21.2004 11:03:02 1220

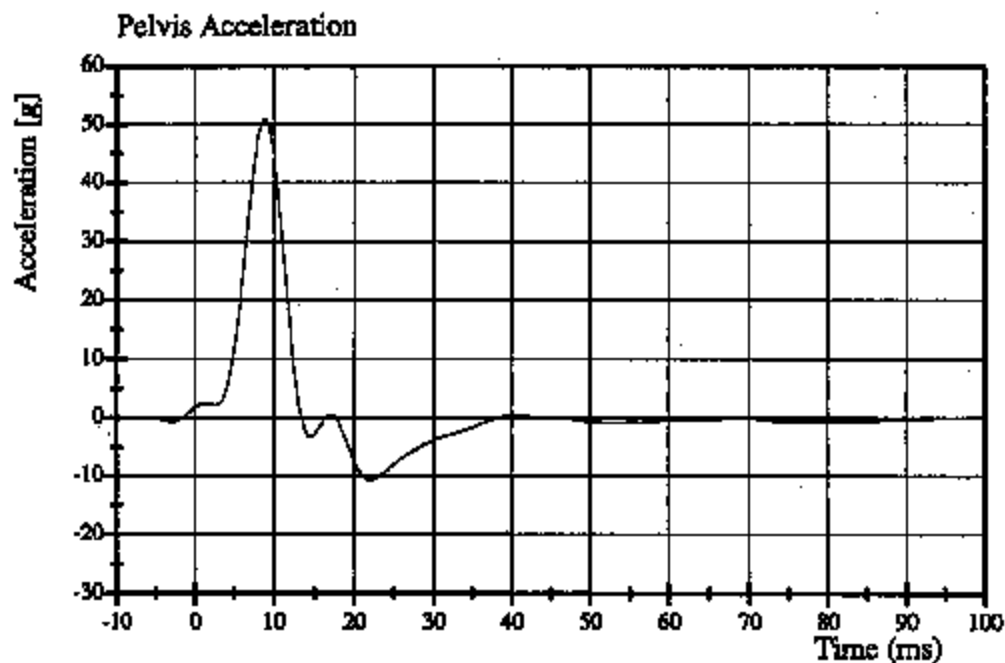


Transportation Research Center Inc.

572F Left Side Pelvis Test

SID Serial No. 065 Calibration No. 13 - 1

Test Date 07/21/2004



Filter Class: FIR 100

Max: 51.1 g at 8.7 ms

Min: -10.7 g at 21.9 ms

07.21.2004 11:03:03 1220



Calibration Test Results

Post-Test

SID: 066

Configured for Left Side Impact

External Dimensions:	The dummy passed all external dimension requirements.
Lateral Thorax Impact Test:	The lateral thorax passed all impact test requirements.
Lumbar Flexion Test:	The dummy met the lumbar flexion test requirements.
Abdominal Compression Test:	The abdomen met the compression test requirements.
Pelvis Impact Test:	The lateral pelvis passed all impact test requirements.
Thoracic Shock Absorber Test:	The thoracic shock absorber was not tested at this time.

Transportation Research Center Inc.

572F SID Dummy

External Dimensions

Serial No. 066 Calibration No. 12

07/21/04

Test Parameter	Dimension	Specification	Results	Pass
Seated Height	SH	889.0 - 909.3 mm	900 mm	Yes
Rib Height	RH	501.7 - 520.7 mm	505 mm	Yes
Hip Pivot Height	HP	99.1 REF mm	99.1 mm	
Rib From Backline	RD	228.6 - 241.3 mm	235 mm	Yes
Knee Pivot From Backline	KH	510.5 - 525.8 mm	522 mm	Yes
Knee Pivot From Floor	KV	490.2 - 505.5 mm	493 mm	Yes
Hip Width	HW	355.6 - 391.2 mm	366 mm	Yes
Top Rib Width From CL	RW-1	165.1 - 180.3 mm	171 mm	Yes
Bottom Rib Width From CL	RW-2	165.1 - 180.3 mm	172 mm	Yes
Difference Between Top & Bottom Rib Width from CL		≤ 2.5 mm	1.0 mm	Yes

Technician

Vincent Oliver

Approved

K. F. Watten

TRE

Transportation Research Center Inc.

572F Left Side Thorax Test

SID Serial No. 066 Calibration No. 12 - 1

Test Date 07/21/2004

Test Parameter	Specification	Test Results	Pass
Temperature	18.9 - 25.5 C	22.7 C	Yes
Relative Humidity	10 - 70 %	55 %	Yes
Pendulum Velocity	4.27 - 4.33 m/sec	4.32 m/sec	Yes
Upper Rib Bar Peak Acceleration	37 - 46 g	42.4 g	Yes
Lower Rib Bar Peak Acceleration	37 - 46 g	43.8 g	Yes
Lower Thoracic Spine (T12) Peak Acceleration	15 - 22 g	18.8 g	Yes

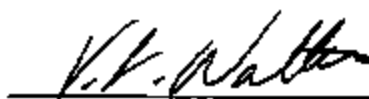
Test meets specifications.

Comments:

Technician



Approved



07.21.2004 09:28:01 1218



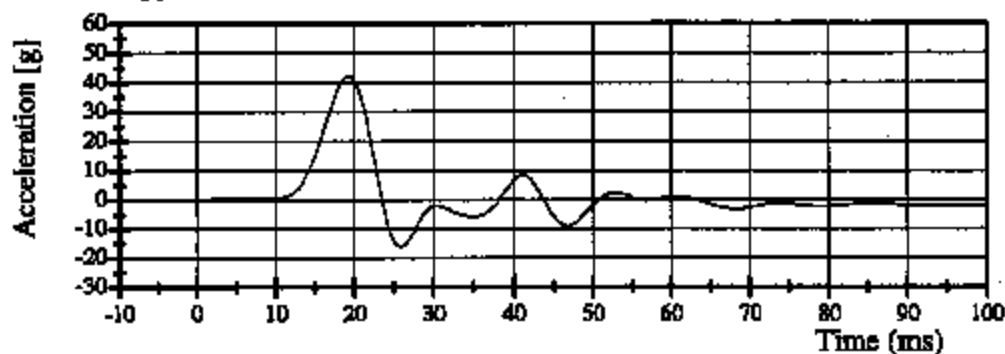
Transportation Research Center Inc.

572F Left Side Thorax Test

SID Serial No. 066 Calibration No. 12 - 1

Test Date 07/21/2004

Upper Rib Bar Acceleration

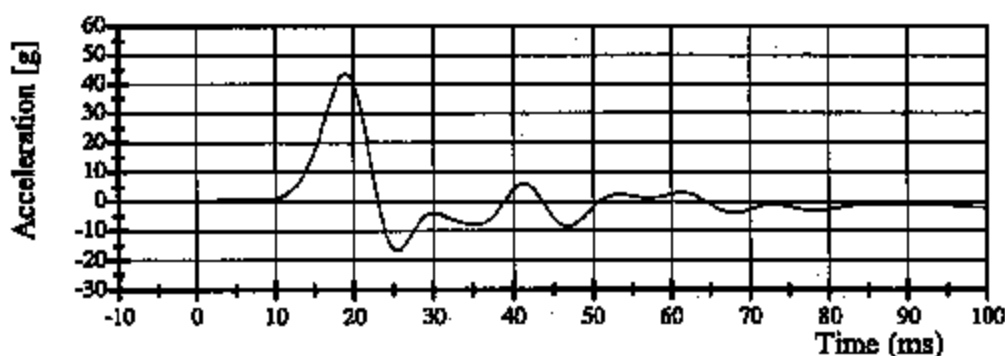


Filter Class: FIR 100

Max: 42.4 g at 19.5 ms

Min: -16.3 g at 25.8 ms

Lower Rib Bar Acceleration

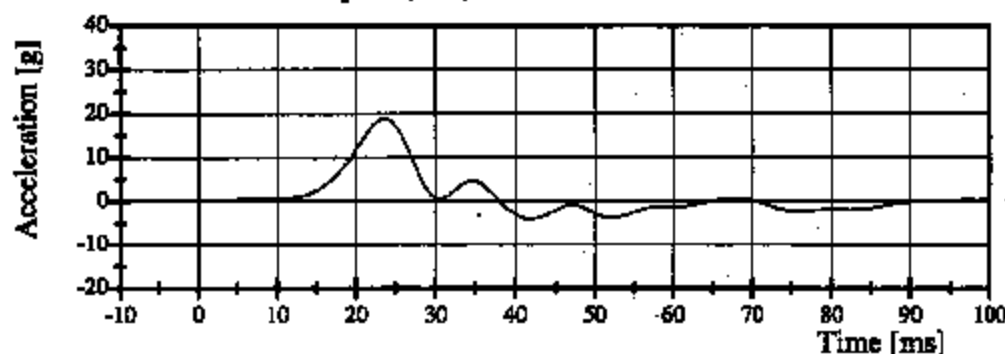


Filter Class: FIR 100

Max: 43.8 g at 18.9 ms

Min: -16.7 g at 25.2 ms

Lower Thoracic Spine (T12) Acceleration



Filter Class: FIR 100

Max: 18.8 g at 23.3 ms

Min: -4.1 g at 42.0 ms

07.21.2004 09:28:02 1218



TRANSPORTATION RESEARCH CENTER INC.

LUMBAR FLEXION TEST

SID PART 572B

CAL DATE: 20-Jul-04

TRC, INC.

TEST NO: 066C12TF1

572B SN 066 TORSO FLEX CAL 12

TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE	18.9 - 25.6° C	21.9 °C
RELATIVE HUMIDITY	10 - 70 %	55 %
FORCE AT 0 DEG. FLEXION	-27 - 27 N	0 N
FORCE AT 20 DEG OF FLEXION	98 - 151 N	111.2 N
FORCE AT 30 DEG OF FLEXION	151 - 205 N	173.5 N
FORCE AT 40 DEG OF FLEXION	205 - 258 N	195.7 N
NET RETURN ANGLE AFTER 3 MINUTES	< 12 °	4.2 °

TEST MEETS SPECIFICATIONS

TECHNICIAN



Transportation Research Center Inc.

572B Abdomen Compression Test

SID Serial No. 066 Calibration No. 12 - 3

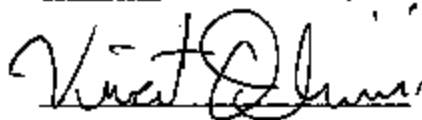
Test Date 07/20/2004

Test Parameter	Specification	Test Results	Pass
Temperature	18.9 - 25.5 °C	22.2 °C	Yes
Relative Humidity	10 - 70 %	55 %	Yes
Displacement Rate	6.35 - 8.89 mm/s	7.7 - 8.0 mm/s	Yes
Data Within Required Corridor	Yes	Yes	Yes

Test meets specifications.

Comments:

Technician



Approved



07.20.2004 14:27:29 2173

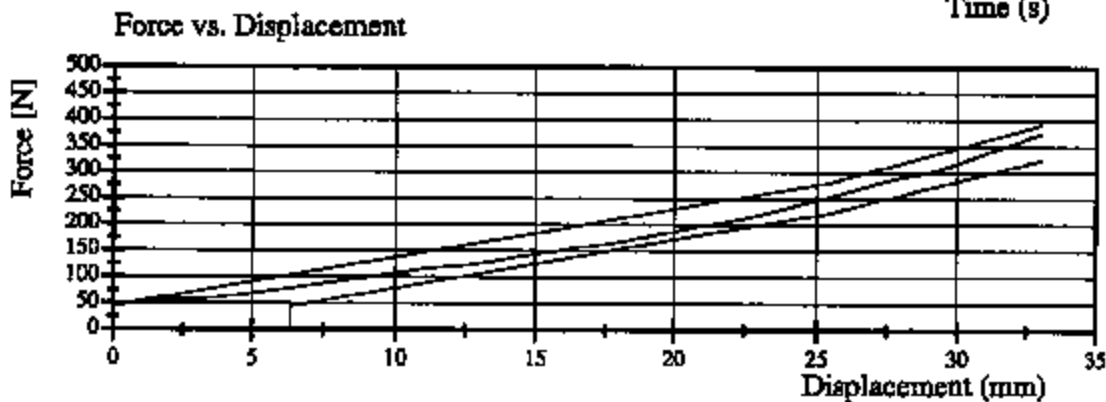
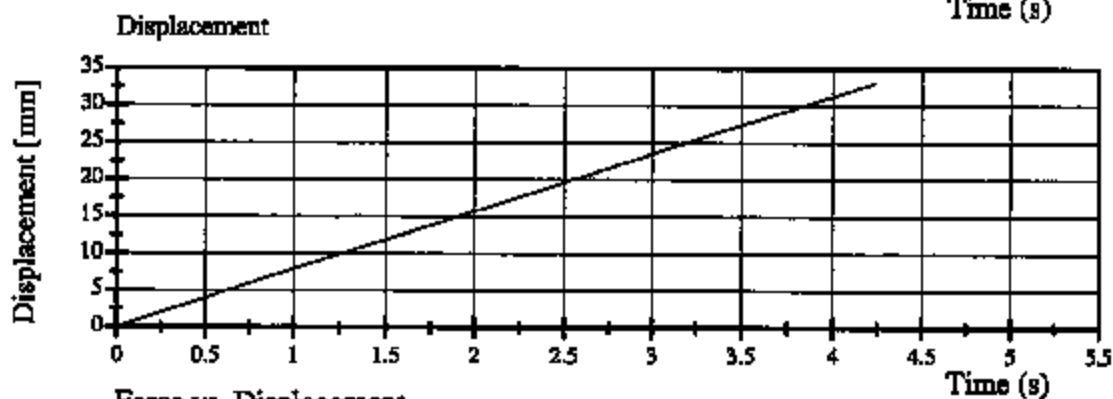
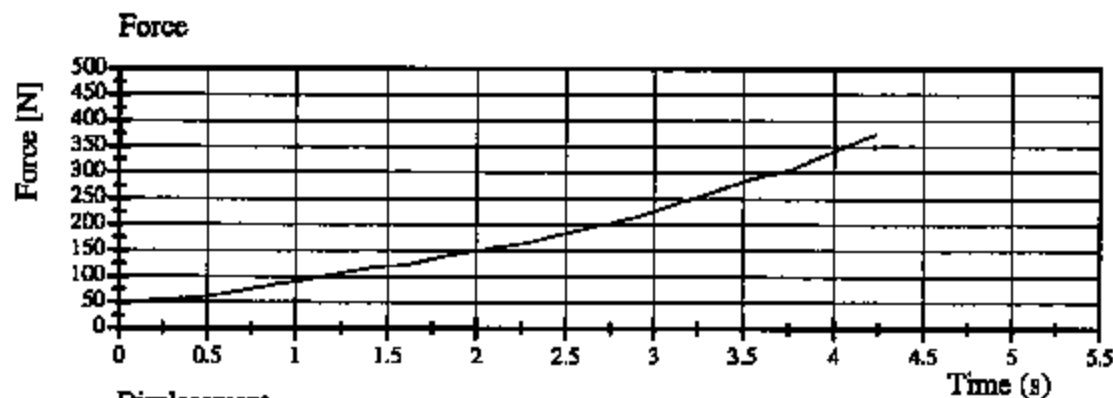
TRE

Transportation Research Center Inc.

572B Abdomen Compression Test

SID Serial No. 066 Calibration No. 12 - 3

Test Date 07/20/2004



07.20.2004 14:27:30 2173



Transportation Research Center Inc.

572F Left Side Pelvis Test

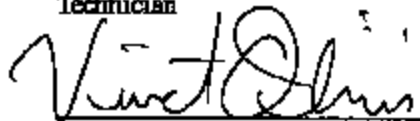
SID Serial No. 066 Calibration No. 12 - 1

Test Date 07/21/2004

Test Parameter	Specification	Test Results	Pass
Temperature	18.9 - 25.5 C	22.6 C	Yes
Relative Humidity	10 - 70 %	55 %	Yes
Pendulum Velocity	4.27 - 4.33 m/sec	4.29 m/sec	Yes
Pelvis Peak Acceleration	40 - 60 g	51.7 g	Yes
Time Above 20 g	3 - 7 ms	6.00 ms	Yes
Unimodal requirement for pelvis acceleration	Yes	Yes	Yes

Comments:

Technician



Approved



07.21.2004 08:57:04 1167

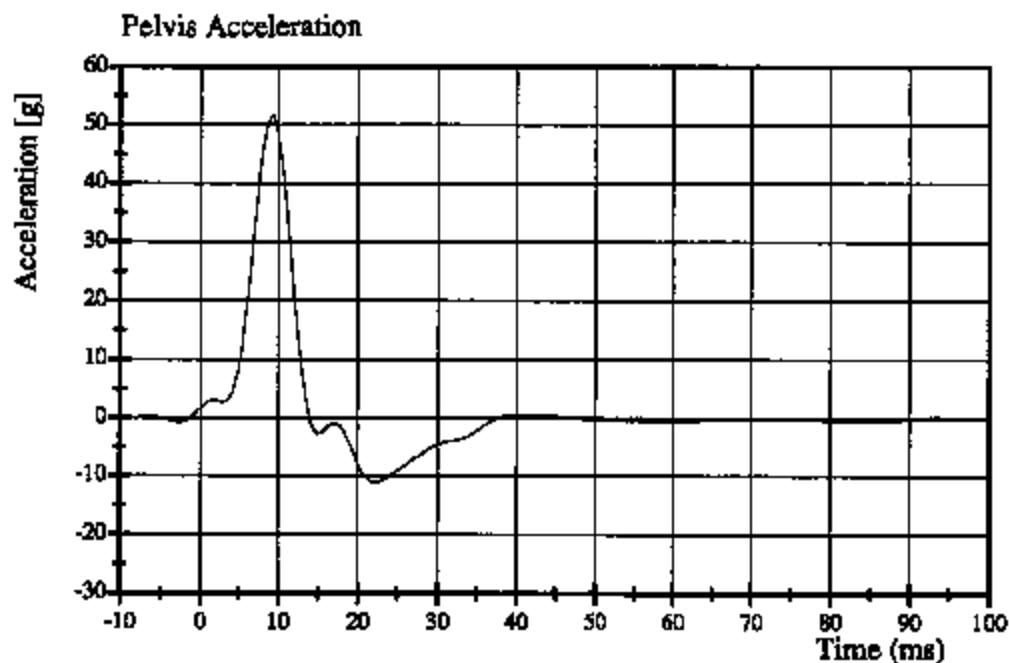


Transportation Research Center Inc.

572F Left Side Pelvis Test

SID Serial No. 066 Calibration No. 12 - 1

Test Date 07/21/2004



Filter Class: FIR 100

Max: 51.7 g at 9.2 ms

Min: -11.1 g at 22.3 ms

07.21.2004 08:57:05 1167



Type: DOT SID S/N: 065 Mfr: Denton Test Date: 07/15/04
 Proj./Seg. No.: 20020455-2090 Test Eng.: Ronald D. Stoner

ITEM	PRE-USE	
HEAD:		
Head Ballast Condition	X	
Accel. Mount Bolts and Cables	X	
Skull Cap Bolts	X	
Head Skin Condition	X	
	(Left)	(Right)
Accel. Cable Exit (left or right)	N/A	
NECK:		
Rubber Condition and Separation From End Caps	X	
THORAX: Left side configuration		
Stacked Shoulder Foams and Bolts	X	
* Rib Cage Spring and Support Assembly	X	
* Rib Cage Bolts	X	
* Damper Rear Attachment Ring, Pivot Pins, and Bracket	X	
* Location and Adjustment of Chest Pot Bracket and Collars	X	
* Chest Pot Rod End Nuts and Eyebolt	X	
Arm Foam Orientation	X	
Thorax/Lumbar Spine Bolts	X	
PELVIS:		
Tightness and Alignment of H-Point Tool Insert	X	
* Hips Range of Motion and 1-2g Adjustment (before calibration only)	X	
Upper Femur Bolt Adjustment and Position	X	
	(With)	(Without)
Check Spine Kits (Yellow tape = Kits/No tape = No kits)	X	
LEGS AND FEET:		
Femur Load Cell Bolts (30 ft/lbs)	X	
Breakaway Femur Bolts	X	
Knee Joint Function and Range of Motion	X	
Leg Skin Condition and Position	X	
Ankle Range of Motion	X	
Foot Condition	X	
OTHER:		
Cleanliness	X	
Target Position	X	
Clothes	X	
Shoes	X	
Knee & Ankle One G Joint Adjustments	X	

Inspection Completed By: J. Clarridge Date: 07/14/04

Type: DOT SID S/N: 066 Mfr: Denton Test Date: 07/15/04
 Proj./Seg. No.: 20020455-2090 Test Eng.: Ronald D. Stoner

ITEM	PRE-USE	
HEAD:		
Head Ballast Condition	X	
Accel. Mount Bolts and Cables	X	
Skull Cap Bolts	X	
Head Skin Condition	X	
Accel. Cable Exit (left or right)	(Left) N/A	(Right)
NECK:		
Rubber Condition and Separation From End Caps	X	
THORAX: Left side configuration		
Stacked Shoulder Foams and Bolts	X	
* Rib Cage Spring and Support Assembly	X	
* Rib Cage Bolts	X	
* Damper Rear Attachment Ring, Pivot Pins, and Bracket	X	
* Location and Adjustment of Chest Pot Bracket and Collars	X	
* Chest Pot Rod End Nuts and Eyebolt	X	
Arm Foam Orientation	X	
Thorax/Lumbar Spine Bolts	X	
PELVIS:		
Tightness and Alignment of H-Point Tool Insert	X	
* Hips Range of Motion and 1-2g Adjustment (before calibration only)	X	
Upper Femur Bolt Adjustment and Position	X	
Check Spine Kits (Yellow tape = Kits/No tape = No kits)	(With) X	(Without)
LEGS AND FEET:		
Femur Load Cell Bolts (30 ft/lbs)	X	
Breakaway Femur Bolts	X	
Knee Joint Function and Range of Motion	X	
Leg Skin Condition and Position	X	
Ankle Range of Motion	X	
Foot Condition	X	
OTHER:		
Cleanliness	X	
Target Position	X	
Clothes	X	
Shoes	X	
Knee & Ankle One G Joint Adjustments	X	

Inspection Completed By: J. Clarridge Date: 07/14/04

Transportation Research Center Inc.

SID Post-Use Inspection

Type: DOT SID S/N: 065 Mfr: Denton Test Date: 07/15/04
 Proj./Seg. No.: 20020455-2090 Test Eng.: Ronald D. Stoner

ITEM	POST-USE
HEAD:	
Head Skin Condition	X
Head Ballast Condition	X
NECK:	
Rubber Condition and Separation From End Caps	*
THORAX: Left side configuration	
Jacket Condition	X
Arm Foam Condition	X
Damper and Chest Pot Movement and Condition	X
Rib Cage Spring and Support Assembly Condition	X
Rib Wrap Condition	X
Abdomen condition	X
Thorax/Lumbar Spine Bolts	X
Lumbar Spine Condition and Separation From End Caps	X
PELVIS:	
Iliac Crest bone	X
Flesh Condition	X
Hip Range of Motion	X
LEGS AND FEET:	
Knee Skins and Castings Condition	X
Leg Skin Condition	X
Foot Condition	X
Knee Joint Range of Motion	X
Ankle Range of Motion	X

NOTES: Neck is deteriorating from old age.

No other damage to report.

Inspection Completed By: J. Clarridge

Date: 07/16/04

Transportation Research Center Inc.

SID Post-Use Inspection

Type: DOT SID S/N: 066

Mfr: Denton

Test Date: 07/15/04

Proj./Seg. No.: 20020455-2090

Test Eng.: Ronald D. Stoner

ITEM	POST-USE
HEAD:	
Head Skin Condition	X
Head Ballast Condition	X
NECK:	
Rubber Condition and Separation From End Caps	*
THORAX: Left side configuration	
Jacket Condition	X
Arm Foam Condition	X
Damper and Chest Pot Movement and Condition	X
Rib Cage Spring and Support Assembly Condition	X
Rib Wrap Condition	X
Abdomen condition	X
Thorax/Lumbar Spine Bolts	X
Lumbar Spine Condition and Separation From End Caps	X
PELVIS:	
Iliac Crest bone	X
Flesh Condition	X
Hip Range of Motion	X
LEGS AND FEET:	
Knee Skins and Castings Condition	X
Leg Skin Condition	X
Foot Condition	X
Knee Joint Range of Motion	X
Ankle Range of Motion	X

NOTES: Neck rubber deteriorating from old age.

No other damage to report.

Inspection Completed By: J. Clarridge

Date: 07/16/04

Appendix D

Test Equipment List and Calibration Information

Sign Convention
SAE J211 MAR95

Accelerometers:

+X: Forward
+Y: Rightward
+Z: Downward

Potentiometers:

+Chest longitudinal deflection: Outward
+Chest lateral deflection: Rightward
+Seat belt displacement: Outward
+Seat belt extension: Elongation
+Knee slider displacement: Distance between femur and tibia
increased (in relation to a seated
dummy)

Rotation potentiometers:

+About the X-axis: Left foot-eversion
Right foot-inversion
+About the Y-axis: Left/right foot-dorsiflexion
+About the Z-axis: Left foot-internal
Right foot-external

Load cells:

+Femur force: Tension
+Seat belt force: Tension
+Barrier force: Tension

Neck load cells:

+X force: Head pushed rearward
+Y force: Head pushed leftward
+Z force: Head pulled upward (tension on neck)
+X moment: Left ear rotating toward left shoulder
+Y moment: Chin rotating toward chest
+Z moment: Chin rotating toward left shoulder

Tibia load cells:

+X force: Ankle forward, knee rearward
+Y force: Ankle rightward, knee leftward
+Z force: Tension
+X moment: Bottom of tibia moving leftward
+Y moment: Bottom of tibia moving rearward

Sign Convention, Cont'd.
SAE J211 MAR95

Lumbar load cells:

+X force:	Chest rearward, pelvis forward
+Y force:	Chest leftward, pelvis rightward
+Z force:	Chest upward, pelvis downward
+X moment:	Left shoulder toward left hip
+Y moment:	Sternum toward front of legs
+Z moment:	Right shoulder forward, left shoulder rearward

Frequency Response Classes
SAE J211 MAR95

<u>Typical Test Measurements</u>	<u>Channel Class</u>
Vehicle Structural Accelerations for use in:	
Total vehicle comparison	60
Collision simulation input	60
Component analysis	600
Integration for velocity or displacement	180
Barrier Face Forces	60
Belt Restraint System Loads	60
Anthropomorphic Test Device	
Head accelerations (linear and angular)	1000
Neck	
Forces	1000
Moments	600
Thorax	
Spine accelerations	180
Rib accelerations	1000
Sternum accelerations	1000
Deflections	600
Lumbar	
Forces	1000
Moments	1000
Pelvis	
Accelerations	1000
Forces	1000
Moments	1000
Femur/Knee/Tibia/Ankle	
Forces	600
Moments	600
Displacements	180
Sled Accelerations	60
Steering Column Loads	600
Head form Accelerations	1000

The direction column on the following sheets describes the transducer output as mounted and wired in the test location. The polarity column indicates whether a polarity change occurred during data acquisition to conform to J211 MAR95. See Report Sign Convention sheet for description of data output as presented in the report: occasionally channels have been adjusted in post-acquisition processing to conform to J211 MAR95.

Channel Report

7/15/2004 9:08:43 AM

Name of Test 040715

System MINIDAU

Name of DAU DAUF

Chan.#	Sensor #	Mnemonic	Description	Dir.	Range	Pol.	Cal.	Group	Mfg.	Model
0001	EVENT	EVENT	EVENT		5.12	V	+ 4/19/2004	OK -1	TRC	Event
0002	P33713	BCGXG1	MDB Center of Gravity X-axis	FWD	601.05889	g	+ 4/19/2004	OK -1	Endevco	7264C-2K-2-180
0003	P29807	BCGYG1	MDB Center of Gravity Y-axis	LT	603.48892	g	- 2/20/2004	OK -1	Endevco	7264C-2K-2-180
0004	P33009	BCGZG1	MDB Center of Gravity Z-axis	UP	599.51055	g	- 2/27/2004	OK -1	Endevco	7264C-2K-2-180
0005	P27393	LRRXG1	MDB Left Rear X-axis	FWD	602.40963	g	+ 1/13/2004	— -1	Endevco	7264C-2K-2-180
0006	P33362	LRRYG1	MDB Left Rear Y-axis	LT	605.57316	g	- 3/17/2004	OK -1	Endevco	7264C-2K-2-180

D-6

040715-1

Channel Report

7/15/2004 9:08:43 AM

Name of Test 040715

System MINIDAU

Name of DAU DAUG

Chan.#	Sensor #	Mnemonic	Description	Dir.	Range	Pol.	Cal.	Group	Mfg.	Model
0001	P34250	LURYG1	Left Upper Rib Y	Rgt	789.79437	g	+ 4/19/2004	OK 065nl	Endevco	7264C-2K-2-180
0002	P34017	LURYR1	Left Upper Rib Red Y	Rgt	808.20836	g	+ 4/19/2004	OK 065nl	Endevco	7264C-2K-2-180
0003	P34139	LLRYG1	Left Lower Rib Y	Rgt	797.20976	g	+ 4/19/2004	OK 065nl	Endevco	7264C-2K-2-180
0004	P33860	LLRYR1	Left Lower Rib Red Y	Rgt	795.03105	g	+ 4/19/2004	OK 065nl	Endevco	7264C-2K-2-180
0005	P32979	T12YG1	Lower Spine Y	Lft	397.92333	g	- 4/19/2004	OK 065nl	Endevco	7264C-2K-2-180
0006	P34070	T12YR1	Lower Spine Red Y	Lft	399.87503	g	- 4/19/2004	OK 065nl	Endevco	7264C-2K-2-180
0007	P33508	PEVYG1	Pelvis Accel Y	Lft	401.29480	g	- 4/19/2004	OK 065nl	Endevco	7264C-2K-2-180
0008	P33577	PEVYR1	Pelvis Accel Red Y	Lft	399.46945	g	- 4/19/2004	OK 065nl	Endevco	7264C-2K-2-180
0009	P34348	LURYG4	Left Upper Rib Y	Rgt	802.50783	g	+ 4/19/2004	OK 066nl	Endevco	7264C-2K-2-180
0010	P31875	LURYR4	Left Upper Rib Red Y	Rgt	788.83308	g	+ 4/19/2004	OK 066nl	Endevco	7264C-2K-2-180
0011	P34029	LLRYG4	Left Lower Rib Y	Rgt	801.75383	g	+ 4/19/2004	OK 066nl	Endevco	7264C-2K-2-180
0012	P33541	LLRYR4	Left Lower Rib Red Y	Rgt	810.04967	g	+ 4/19/2004	OK 066nl	Endevco	7264C-2K-2-180
0013	P34275	T12YG4	Lower Spine Y	Lft	398.18638	g	- 4/19/2004	OK 066nl	Endevco	7264C-2K-2-180
0014	P33847	T12YR4	Lower Spine Red Y	Lft	401.24762	g	- 4/19/2004	OK 066nl	Endevco	7264C-2K-2-180
0015	P34025	PEVYG4	Pelvis Accel Y	Lft	401.78291	g	- 4/19/2004	OK 066nl	Endevco	7264C-2K-2-180
0016	P33878	PEVYR4	Pelvis Accel Red Y	Lft	400.44737	g	- 4/19/2004	OK 066nl	Endevco	7264C-2K-2-180
0017	P34661	RFSXG1	RGT SIDE SILL FRNT ST X	FWD	400.86122	g	+ 6/7/2004	OK -1	Endevco	7264C-2K-2-180
0018	P34213	RFSYG1	RGT SIDE SILL FRNT ST Y	LT	987.08309	g	- 6/7/2004	OK -1	Endevco	7264C-2K-2-180
0019	P34721	RFSZG1	RGT SIDE SILL FRNT ST Z	UP	397.87076	g	- 6/7/2004	OK -1	Endevco	7264C-2K-2-180
0020	P33533	RRSXG1	RGT SIDE SILL RR ST X	FWD	400.86122	g	+ 3/17/2004	OK -1	Endevco	7264C-2K-2-180
0021	P33069	RRSYG1	RGT SIDE SILL RR ST Y	LT	1003.1937	g	- 2/27/2004	OK -1	Endevco	7264C-2K-2-180
0022	P33352	RRSZG1	RGT SIDE SILL RR ST Z	UP	402.21216	g	- 3/17/2004	OK -1	Endevco	7264C-2K-2-180
0023	P34731	RDKXG1	RR FLRPAN ABV AXLE X	FWD	1003.1741	g	+ 6/7/2004	OK -1	Endevco	7264C-2K-2-180
0024	P34706	RDKYG1	RR FLRPAN ABV AXLE Y	LT	1002.5062	g	- 6/7/2004	OK -1	Endevco	7264C-2K-2-180
0025	P34960	RDKZG1	RR FLRPAN ABV AXLE Z	UP	1014.6047	g	- 6/7/2004	OK -1	Endevco	7264C-2K-2-180
0026	P37725	LRSYG1	LFT SIDE SILL RR ST Y	LT	988.22621	g	- 6/7/2004	OK -1	Endevco	7264C-2K-2-180
0027	P33877	LFSYG1	LFT SIDE SILL FRNT ST Y	RT	984.12332	g	+ 4/19/2004	OK -1	Endevco	7264C-2K-2-180
0028	P34232	RRTYG1	RGT RR OCP COMP Y	LT	1530.1852	g	- 6/7/2004	OK -1	Endevco	7264C-2K-2-180
0029	P34136	LLBYG1	LFT LOWER B-POST Y	RT	1463.9446	g	+ 4/19/2004	OK -1	Endevco	7264C-2K-2-180
0030	P37756	LUBYG1	LFT MID B-POST Y	RT	1466.2084	g	+ 6/7/2004	OK -1	Endevco	7264C-2K-2-180
0031	P37755	LLAYG1	LFT LOWER A-POST Y	LT	1512.6894	g	- 6/7/2004	OK -1	Endevco	7264C-2K-2-180
0032	P34003	LUAYG1	LFT MID A-POST Y	LT	1519.5583	g	- 3/31/2004	OK -1	Endevco	7264C-2K-2-180

D-7

040715-1

Channel Report

7/15/2004 9:08:43 AM

Name of Test 040715

System MINIDAU

Name of DAU DAUH

Chan.#	Sensor #	Mnemonic	Description	Dir.	Range	Pol.	Cal.	Group	Mfg.	Model
0001	P34817	LFTYGI	LFT FRNT ST TRK Y	RT	1488.7615 g	+	6/7/2004	OK -1	Endevco	7264C-2K-2-180
0002	P23483	LRTYGI	LFT RR ST TR Y	LT	1522.4501 g	-	4/8/2004	OK -1	Endevco	7264C-2K-2-180
0003	P33592	VCGXGI	VEH C/G X	RR	984.61538 g	-	4/19/2004	OK -1	Endevco	7264C-2K-2-180
0004	P33594	VCGYGI	VEH C/G Y	LT	1006.3684 g	-	4/19/2004	OK -1	Endevco	7264C-2K-2-180
0005	P33881	VCGZGI	VEH C/G Z	UP	1016.3771 g	-	4/19/2004	OK -1	Endevco	7264C-2K-2-180

D-8

040715-1

Digital and System Channel Report

2004-07-15 09:08:13

Name of Test 040715

System MINIDAU

Name of DAU DAUF descriptio

enable Channel

Short Name

Type

Data File

Module Type

Yes 0501

DIGF

dig0

DATF0501

KM3710 Controller

bit position	bit	short	long	descriptio
MSB = bit 15	1	MDBR1	MDB Right Side Contact Switch	
bit 14	1	MDBL1	MDB Left Side Contact Switch	
bit 13	0			
bit 12	0			
bit 11	0			
bit 10	0			
bit 09	0			
bit 08	0			
bit 07	0			
bit 06	0			
bit 05	0			
bit 04	0			
bit 03	0			
bit 02	0			
bit 01	0			
LSB = bit 00	0			

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Digital and System Channel Report

2004-07-15 09:08:14

Name of Test 040715

System MINIDAU

Name of DAU DAUH descriptio

enable Channel

Short Name

Type

Data File

Module Type

Yes 0501

DIGH

dig0

DATH0501

KM3710 Controller

bit position	bit	short	long	descriptio
MSB = bit 15	1	SHLET1	Driver Shoulder Contact Switch	Q
bit 14	1	PEVET1	Driver Pelvis Contact Switch	R
bit 13	1	SHLET4	Passenger Shoulder Contact	S
bit 12	1	PEVET4	Passenger Pelvis Contact	T
bit 11	0			
bit 10	0			
bit 09	0			
bit 08	0			
bit 07	0			
bit 06	0			
bit 05	0			
bit 04	0			
bit 03	0			
bit 02	0			
bit 01	0			
LSB = bit 00	0			

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Dummy 065nl Type DOT SID Descriptio NHTSA - 065n SID-LEFT IMP. ICAL'd 4-19-04 (DKS 7-6-04)J211

Channel	Location	Model	Name	Manufacturer	Sens./mV/V/	Fullscal	Caldat	Pos Output	Flip
IHEDXG	Head Accel X	7264-2000TZ	J27271	Endevco	0.03182 g	2000	3/18/2004	Rwd	1
IHEDYG	Head Accel Y	7264-2000TZ	J27352	Endevco	0.0238984 g	2000	8/18/2004	Lft	1
IHEDZG	Head Accel Z	7264-2000TZ	J27283	Endevco	0.02331 g	2000	3/18/2004	Up	1
IHEDXR	Head Accel X Red	7264-2000TZ	J29134	Endevco	0.0281255 g	2000	8/16/2004	Rwd	1
IHEDYR	Head Accel Y Red	7264-2000TZ	J29020	Endevco	0.0227613 g	2000	8/16/2004	Lt	1
IHEDZR	Head Accel Z Red	7264-2000TZ	J27322	Endevco	0.0242358 g	2000	8/16/2004	Up	1
INEKXF	Neck Force X	1716	1716-0627-FX	Denton	0.000192808 N	8896.4	8/25/2003	Hd Fd,Cst Rr	1
INEKYF	Neck Force Y	1716	1716-0627-FY	Denton	0.000184074 N	8896.4	8/25/2003	Hd Lt,Cst Rt	0
INEKZF	Neck Force Z	1716	1716-0627-FZ	Denton	0.000085233 N	13344.6	8/25/2003	Hd Up,Cst Dn	0
INEKXM	Neck Moment X	1716	1716-0627-MX	Denton	0.00592 N-m	282.5	8/25/2003	Rt Ear to Rt Shld	1
INEKYM	Neck Moment Y	1716	1716-0627-MY	Denton	0.005939115 N-m	282.5	8/25/2003	Chn to Strm	0
INEKZM	Neck Moment Z	1716	1716-0627-MZ	Denton	0.008371681 N-m	282.5	8/25/2003	Chn to Lt Shld	0
LURYG	Left Upper Rib Y	7264C-2K-2-18	P34250	Endevco	0.02401 g	2000	4/18/2004	Rgt	0
LURYR	Left Upper Rib Red Y	7264C-2K-2-18	P34017	Endevco	0.0181 g	2000	4/18/2004	Rgt	0
LLRYG	Left Lower Rib Y	7264C-2K-2-18	P34139	Endevco	0.02007 g	2000	4/18/2004	Rgt	0
LLRYR	Left Lower Rib Red Y	7264C-2K-2-18	P33860	Endevco	0.0184 g	2000	4/18/2004	Rgt	0
T12YG	Lower Spine Y	7264C-2K-2-18	P32979	Endevco	0.01693 g	2000	4/18/2004	Lft	1
T12YR	Lower Spine Red Y	7264C-2K-2-18	P34070	Endevco	0.0194 g	2000	4/18/2004	Lft	1
PEVYG	Pelvis Accel Y	7264C-2K-2-18	P33508	Endevco	0.01797 g	2000	4/18/2004	Lft	1
PEVYR	Pelvis Accel Red Y	7264C-2K-2-18	P33577	Endevco	0.01831 g	2000	4/18/2004	Lft	1

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Dummy 066nl Type DOT SID Descriptio NHTSA - 066n SID-LEFT IMP. ICAL'd 4-19-04 (DKS7-6-04)J211

Chsnam	Location	Model	Name	Manufacturer	Sens./mV/V/	Fullscal	Caldat	Pos Output	Flip
IHEDXG	Head Accel X	7264-2000TZ	J26980	Endevco	0.0307 g	2000	3/18/2004	Rwd	1
IHEDYG	Head Accel Y	7264-2000TZ	J27048	Endevco	0.02678 g	2000	8/8/2003	Lft	1
IHEDZG	Head Accel Z	7264-2000TZ	J26896	Endevco	0.024 g	2000	12/11/2003	Up	1
IHEDXR	Head Accel X Red	7264C-2K-2-18	P22890	Endevco	0.02212 g	2000	8/8/2003	Rwd	1
IHEDYR	Head Accel Y Red	7264C-2K-2-18	P16213	Endevco	0.0162 g	2000	3/31/2004	Lt	1
IHEDZR	Head Accel Z Red	7264C-2K-2-18	P18941	Endevco	0.02027 g	2000	3/31/2004	Up	1
INEKXF	Neck Force X	1716A	1716A-1220-FX	Denton	0.000195214 N	8896.4	8/16/2003	Hd Fd,Cst Rr	1
INEKYF	Neck Force Y	1716A	1716A-1220-FY	Denton	0.000186244 N	8896.4	8/16/2003	Hd Lt,Cst Rt	0
INEKZF	Neck Force Z	1716A	1716A-1220-FZ	Denton	0.000098594 N	13344.6	8/16/2003	Hd Up,Cst Dn	0
INEKXM	Neck Moment X	1716A	1716A-1220-MX	Denton	0.005936637 N-m	282.5	8/16/2003	Rt Ear to Rt Shld	1
INEKYM	Neck Moment Y	1716A	1716A-1220-MY	Denton	0.005987257 N-m	282.5	8/16/2003	Chn to Strm	0
INEKZM	Neck Moment Z	1716A	1716A-1220-MZ	Denton	0.008511504 N-m	282.5	8/16/2003	Chn to Lt Shld	0
LURYG	Left Upper Rib Y	7264C-2K-2-18	P34348	Endevco	0.0319 g	2000	4/18/2004	Rgt	0
LURYR	Left Upper Rib Red Y	7264C-2K-2-18	P31875	Endevco	0.01909 g	2000	4/18/2004	Rgt	0
LLRYG	Left Lower Rib Y	7264C-2K-2-18	P34029	Endevco	0.0206 g	2000	4/18/2004	Rgt	0
LLRYR	Left Lower Rib Red Y	7264C-2K-2-18	P33541	Endevco	0.01859 g	2000	4/18/2004	Rgt	0
T12YG	Lower Spine Y	7264C-2K-2-18	P34275	Endevco	0.02041 g	2000	4/18/2004	Lft	1
T12YR	Lower Spine Red Y	7264C-2K-2-18	P33847	Endevco	0.02502 g	2000	4/18/2004	Lft	1
PEVYG	Pelvis Accel Y	7264C-2K-2-18	P34025	Endevco	0.01874 g	2000	4/18/2004	Lft	1
PEVYR	Pelvis Accel Red Y	7264C-2K-2-18	P33878	Endevco	0.01853 g	2000	4/18/2004	Lft	1

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SIDE IMPACTOR BARRIER CERTIFICATION

Date: March 8, 2004
To: Transportation Research
Ship & Rec Bldg 50
10820 St. Route 347
East Liberty, OH 43319-0367

PURCHASE ORDER INFORMATION

Customer P.O. Number: 028950
Work Order Number: 20290
Quantity: 01 piece

CORE INFORMATION

Core Type: PCGA-1/4-5.2-P-3003-T
Measured Cell Size: 0.250 inches
Measured Density: 5.2 pcf

Unit Number: 213B0104

This is to certify that the aluminum honeycomb core supplied, under the unit number provided, meets the crush requirements of 232 - 250 psi as per DWG# DSL-1285.


Quality Control Representative
James P. Tomczak

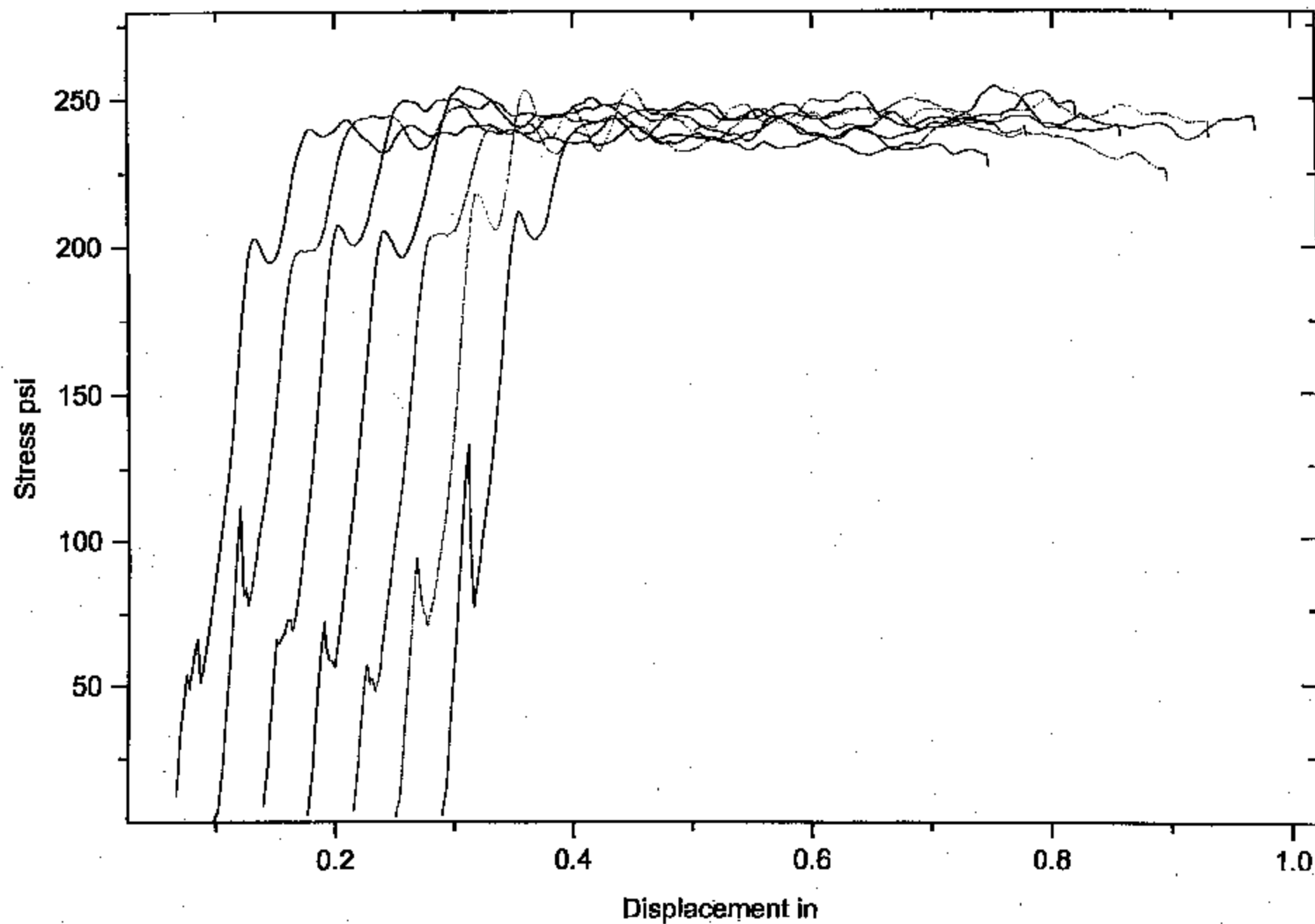


Crush Data
232 - 250 psi per DWG # DSL-1285

Block Number: 213B0104

<u>Specimen Number</u>	<u>Zone 1</u>	<u>Zone 2</u>	<u>Zone 3</u>
1	236.92	235.11	233.13
2	242.49	244.93	237.02
3	246.68	244.54	243.07
4	242.76	238.21	238.94
5	240.86	246.77	237.02
6	243.37	244.81	245.95
7	239.88	241.80	241.62

BLOCK # 213B0104 Sample ID: 1N229226



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SIDE IMPACTOR BARRIER CERTIFICATION

Date: March 8, 2004
To: Transportation Research
Ship & Rec Bldg 50
10820 St. Route 347
East Liberty, OH 43319-0367

PURCHASE ORDER INFORMATION

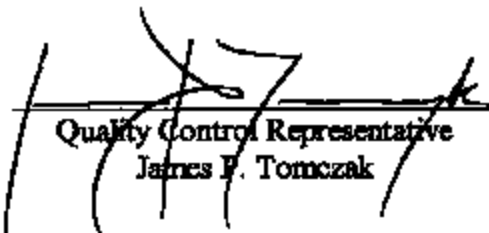
Customer P.O. Number: 028950
Work Order Number: 20290
Quantity: 01 piece

CORE INFORMATION

Core Type: PAMG-3/8-1.6-001-P-5052-T
Measured Cell Size: 0.375 inches
Measured Density: 1.6 pcf

Unit Number: 162B0204

This is to certify that the aluminum honeycomb core supplied, under the unit number provided, meets the crush requirements of 45 psi +/- 2.5 psi as per DWG# DSL-1285.


Quality Control Representative
James P. Tomczak



Crush Data

45 psi +/- 2.5 psi per DWG # DSL-1283

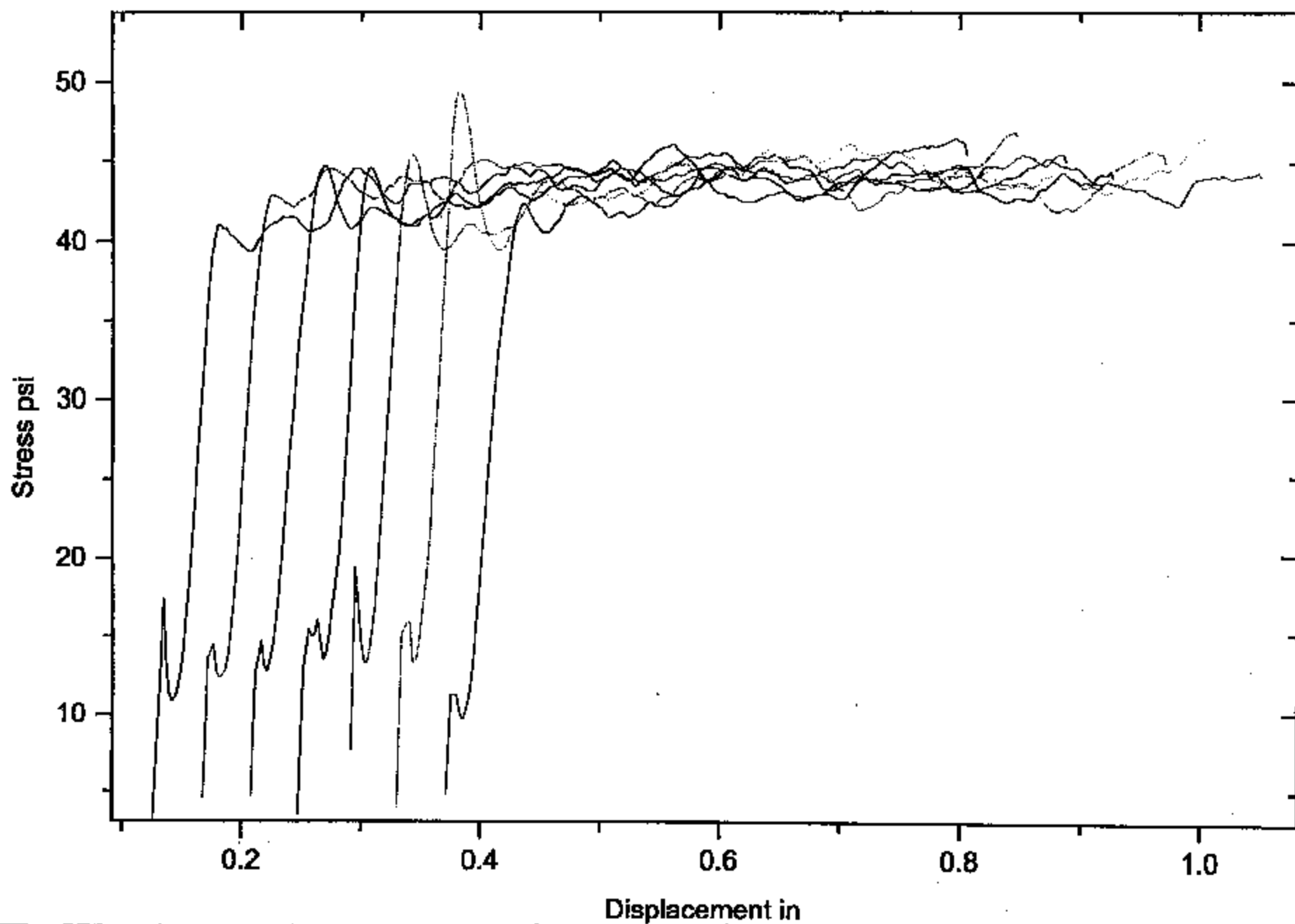
Block Number: 162B0204

<u>Specimen Number</u>	<u>Zone 1</u>	<u>Zone 2</u>	<u>Zone 3</u>
1	43.81	43.56	43.45
2	44.26	44.15	43.96
3	43.84	43.62	43.40
4	44.96	44.23	43.80
5	44.34	43.37	42.97
6	45.07	44.42	43.70
7	44.52	44.45	43.29

BLOCK # 162B0204 Sample ID: IN229298

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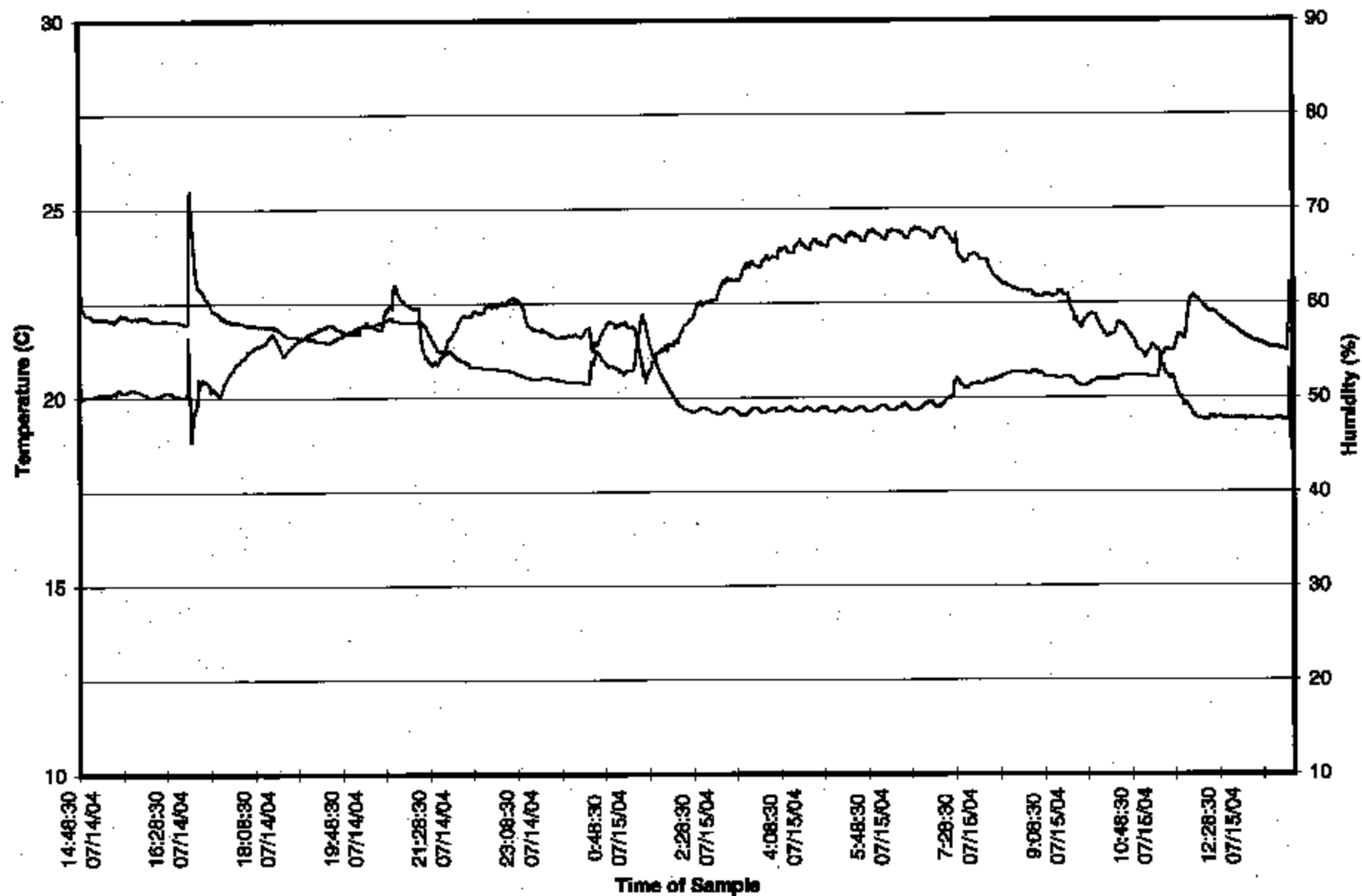
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FMVSS 214 LEFT SIDE IMPACT / 040715-1

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00715-1



SOLD TO: 81454
RICART MAZDA
4888 S. HAMILTON ROAD
GROVEPORT, OH 43125

SHIP TO: 61454
RECARP MAZDA
4255 S. HAMILTON ROAD
GROVEPORT, OH 43125

NAME: _____ PHONE: _____ E-MAIL: _____

JM1BK12F341153062

This label is issued pursuant to the Federal Automobile Disclosure Act. Gasoline, license and title fees, state and local taxes, and dealer installment options are not included.

PARTS CONTENT INFORMATION:

FOR VEHICLES IN THIS CLASS:
U.S./CANADIAN PARTS CONTENT: 45%
MAJOR SOURCES OF FOREIGN PARTS CONTENT:
JAPAN: 50%

**NOTE: PARTS CONTENT DOES NOT INCLUDE FINAL ASSEMBLY,
DISTRIBUTION, OR OTHER NON-PARTS COSTS**

FOR THIS VEHICLE:
FINAL ASSEMBLY POINT: HIROGUCHI, JAPAN
COUNTRY OF ORIGIN:
ENGINE: JAPAN
TRANSMISSION: JAPAN

CITY MPG

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Fuel efficiency
Improvement

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LINEARITY

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