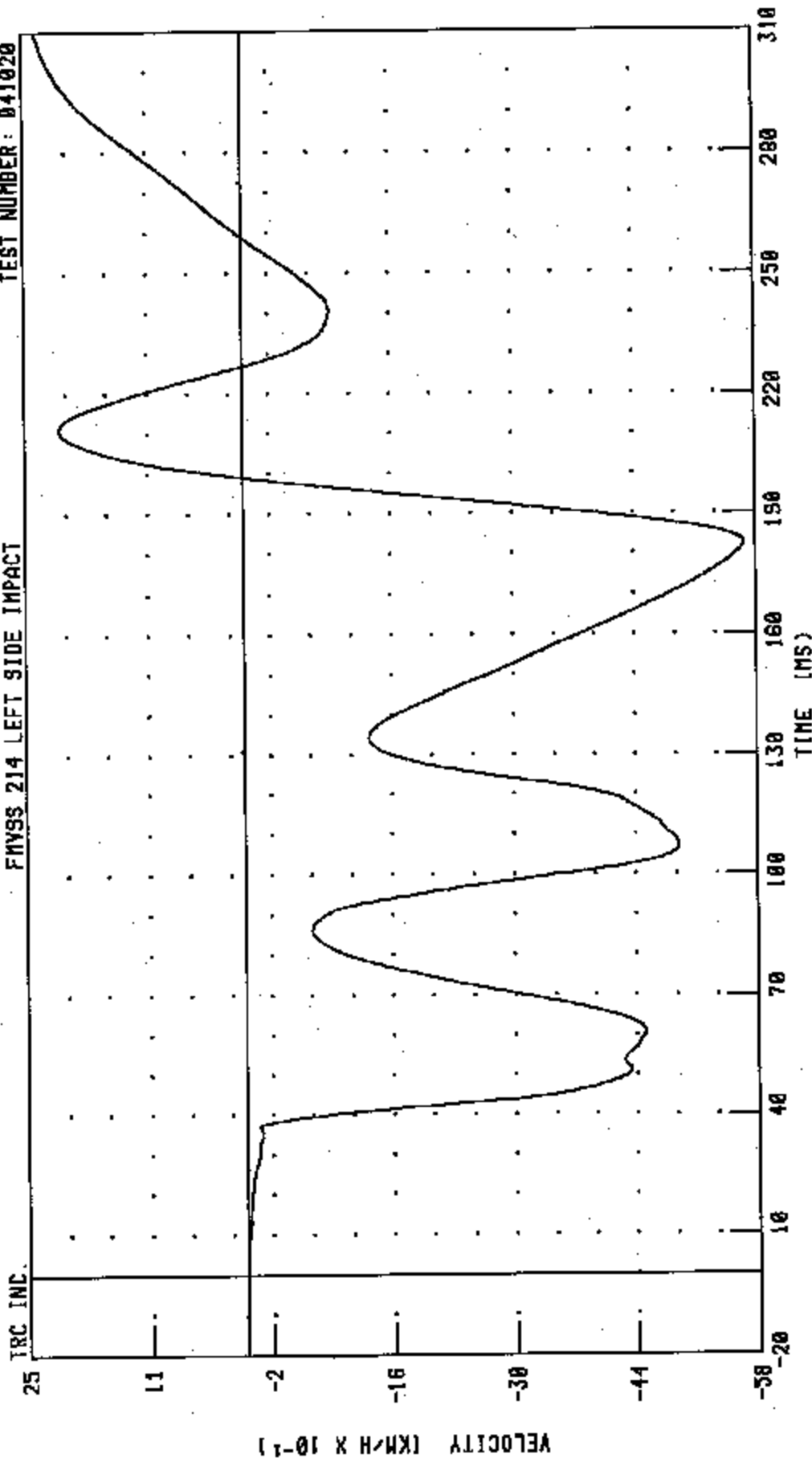


55/28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2005 SCION TC
LEFT REAR PASSENGER HEAD X-AXIS REDUNDANT VELOCITY

TEST NUMBER: 041020

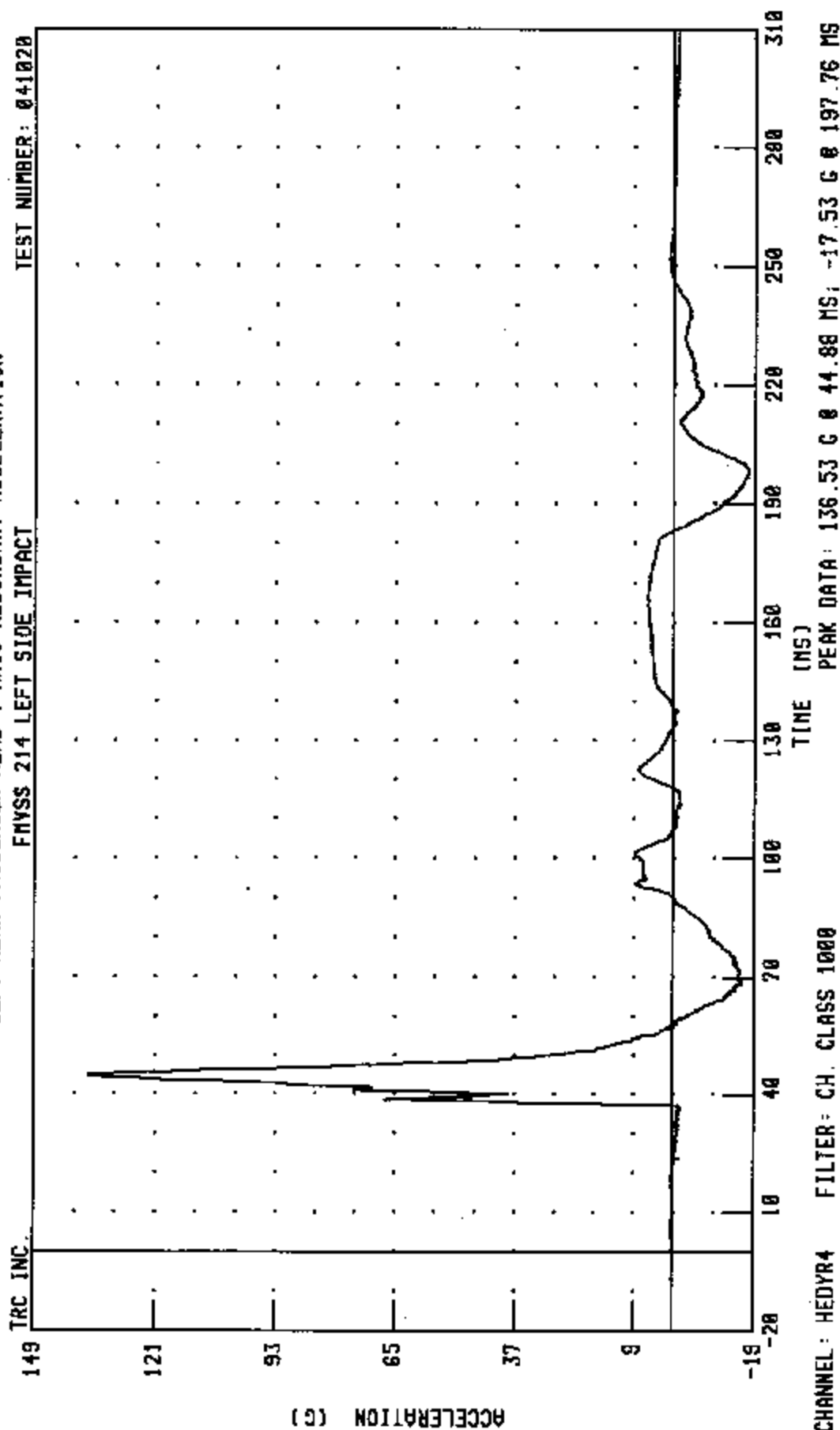
FMVSS 214 LEFT SIDE IMPACT



CHANNEL: HEDXVJ FILTER: CH. CLASS 180

PEAK DATA: 2.36 KM/H @ 310.00 MS; -5.77 KM/H @ 182.40 MS

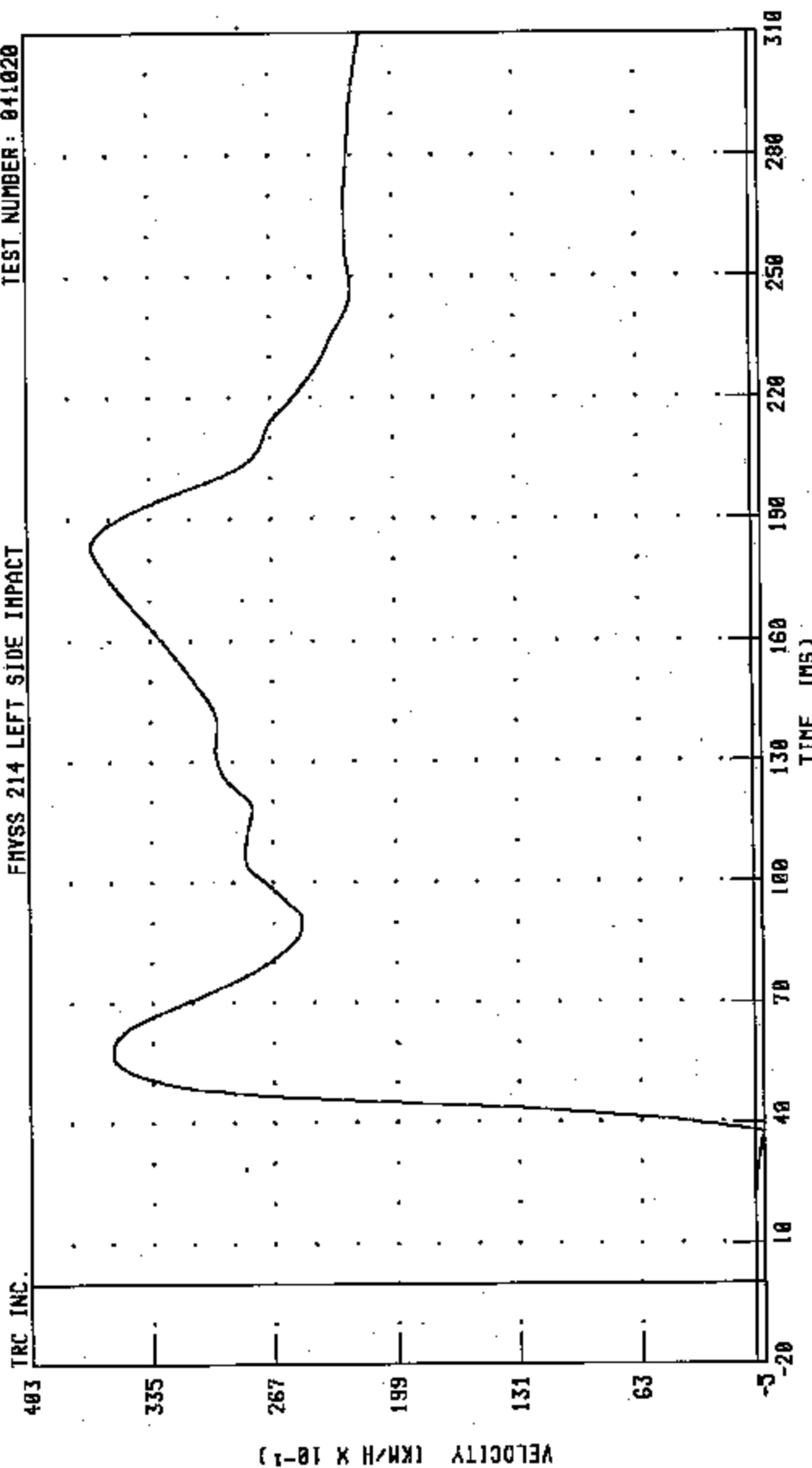
55/20 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2005 SCION TC
LEFT REAR PASSENGER HEAD Y-AXIS REDUNDANT ACCELERATION



55/28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2005 SCION TC
LEFT REAR PASSENGER HEAD Y-AXIS REDUNDANT VELOCITY

TEST NUMBER: 041020

FMVSS 214 LEFT SIDE IMPACT



CHANNEL: HEDYVJ FILTER: CH. CLASS 100

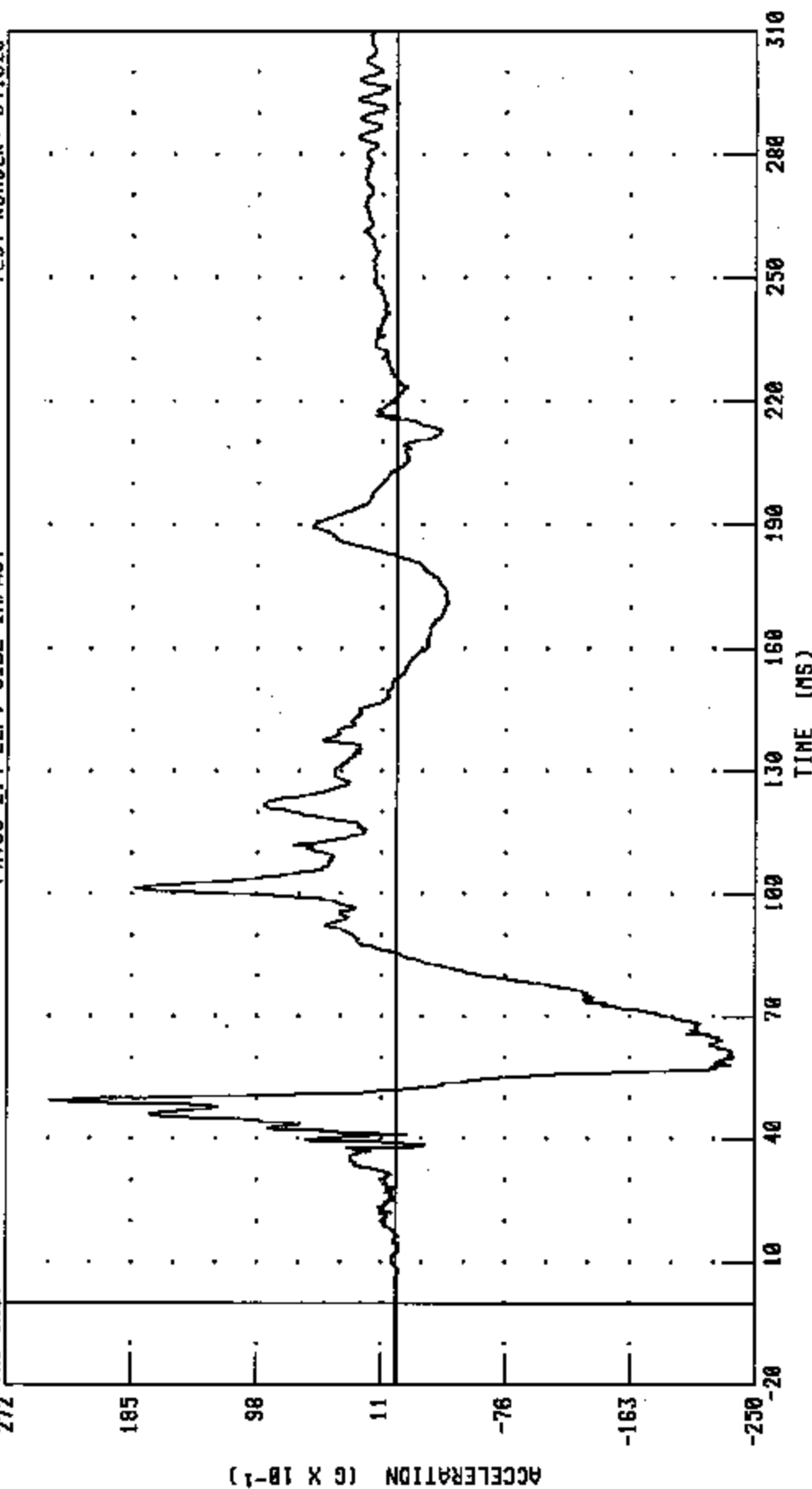
PEAK DATA: 36.76 KM/H @ 183.28 MS, -0.54 KM/H @ 36.96 MS

55/28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2005 SCION TC
LEFT REAR PASSENGER HEAD Z-AXIS REDUNDANT ACCELERATION

TRC INC.

FNVS 214 LEFT SIDE IMPACT

TEST NUMBER: 041020



CHANNEL: HEDZR4 FILTER: CH. CLASS 1000

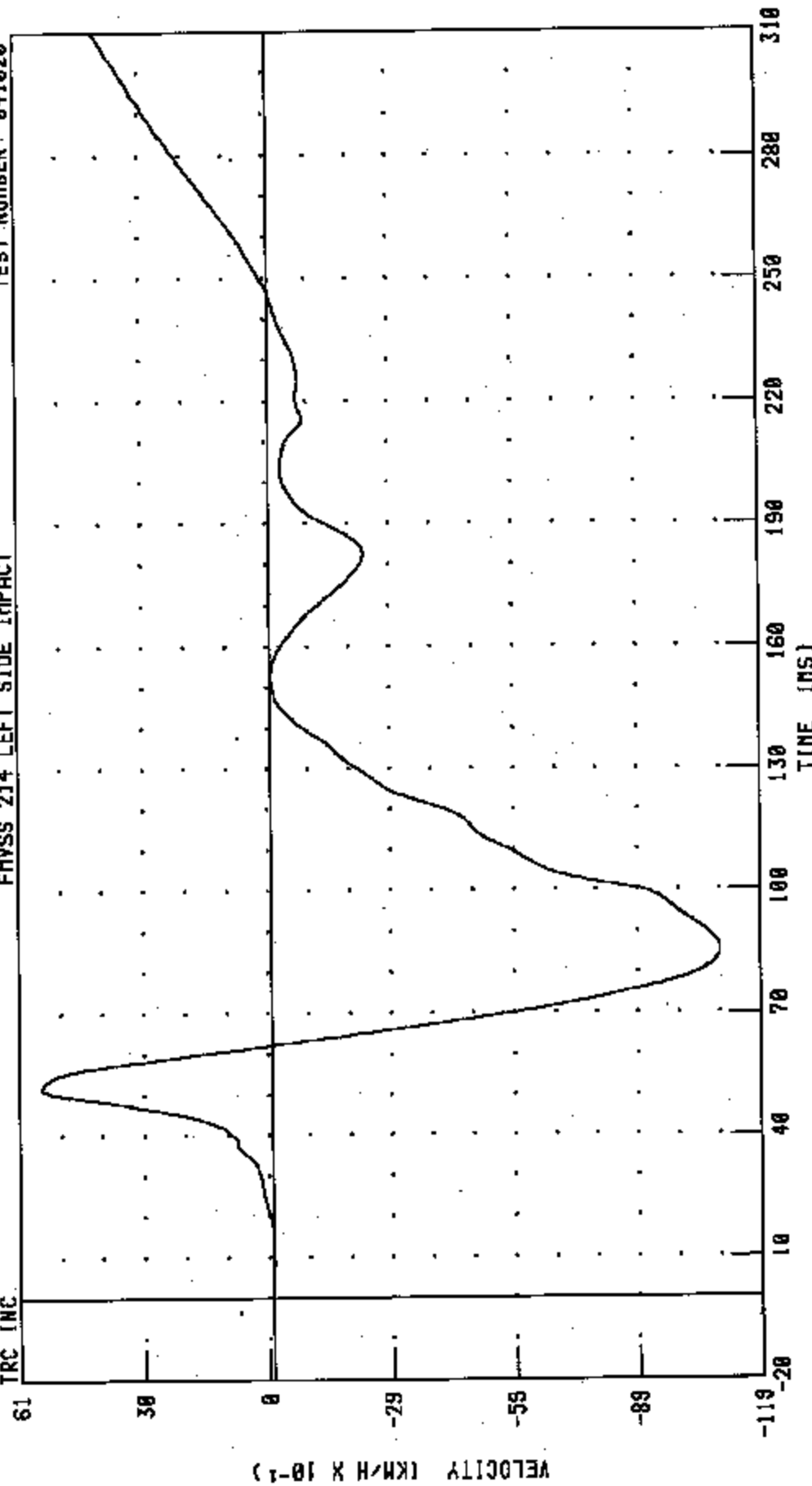
PEAK DATA: 24.23 G @ 49.52 MS; -23.52 G @ 60.24 MS

55/28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2085 SCION TC
LEFT REAR PASSENGER HEAD Z-AXIS REDUNDANT VELOCITY

TEST NUMBER: 041020

FNYS 214 LEFT SIDE IMPACT

TRC INC.



CHANNEL: HEDZVJ FILTER: CH. CLASS 100

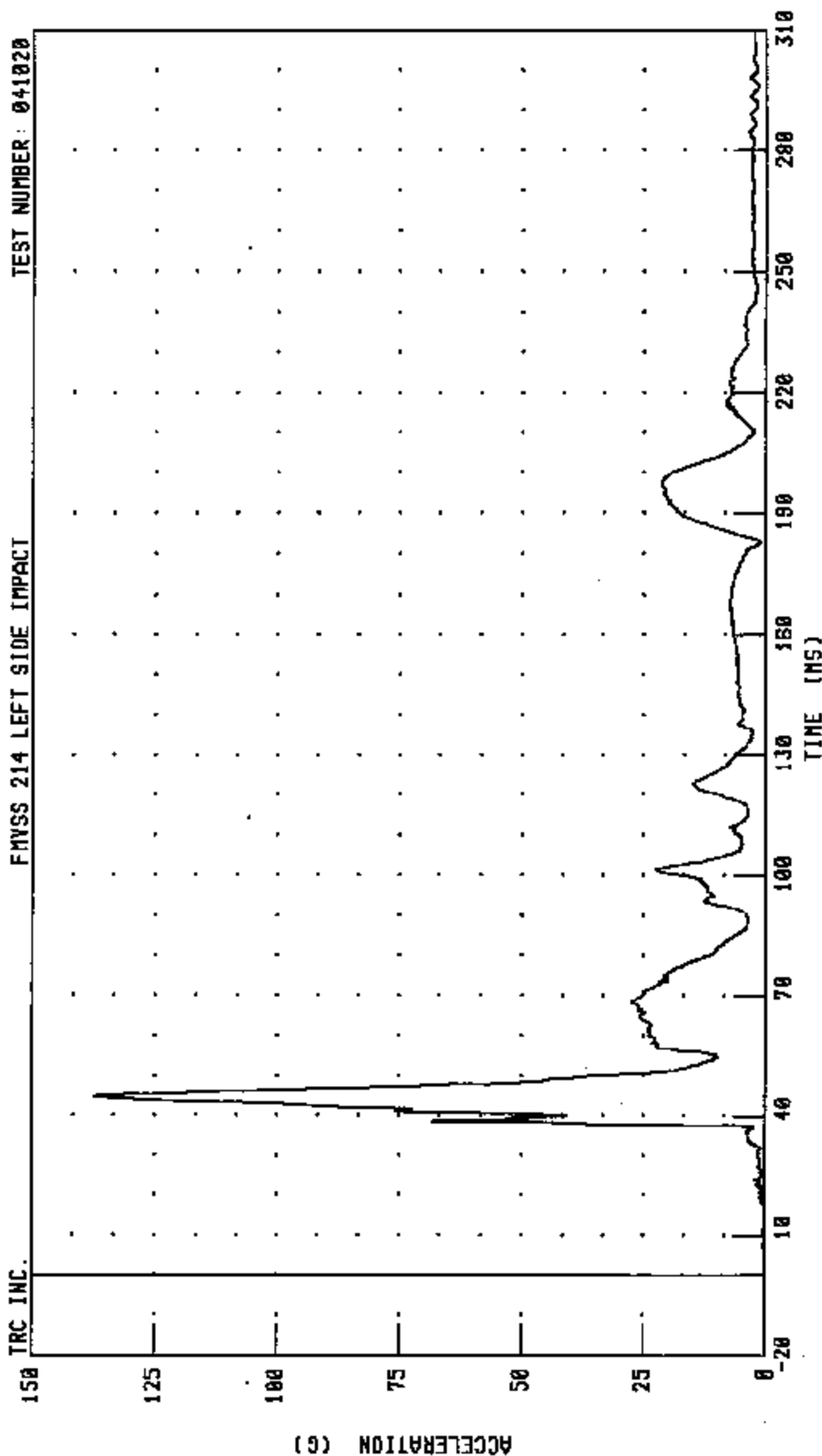
PEAK DATA: 5.56 KM/H @ 52.00 MS; -10.92 KM/H @ 85.52 MS

55/20 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2005 SCION TC
LEFT REAR PASSENGER HEAD RESULTANT REDUNDANT ACCELERATION

TEST NUMBER: 041020

FMVSS 214 LEFT SIDE IMPACT

TRC INC.



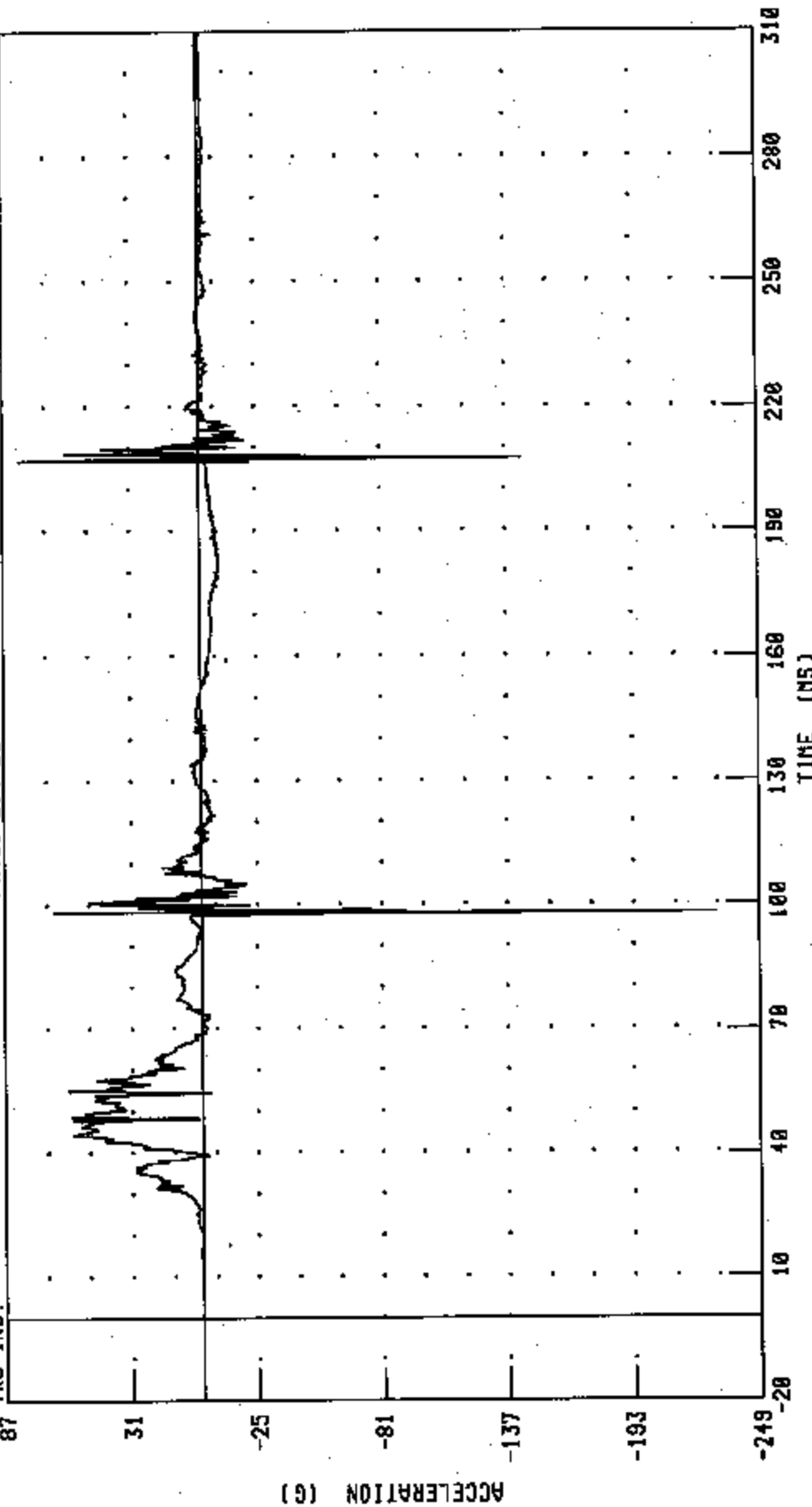
CHANNEL: HEDRR4 FILTER: CH. CLASS 1000

55/28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2005 SCION TC
LEFT REAR PASSENGER UPPER RIB Y-AXIS REDUNDANT ACCELERATION

TEST NUMBER: 041020

FMVSS 214 LEFT SIDE IMPACT

TRC INC.



CHANNEL: LURVR4 FILTER: CH. CLASS 1000

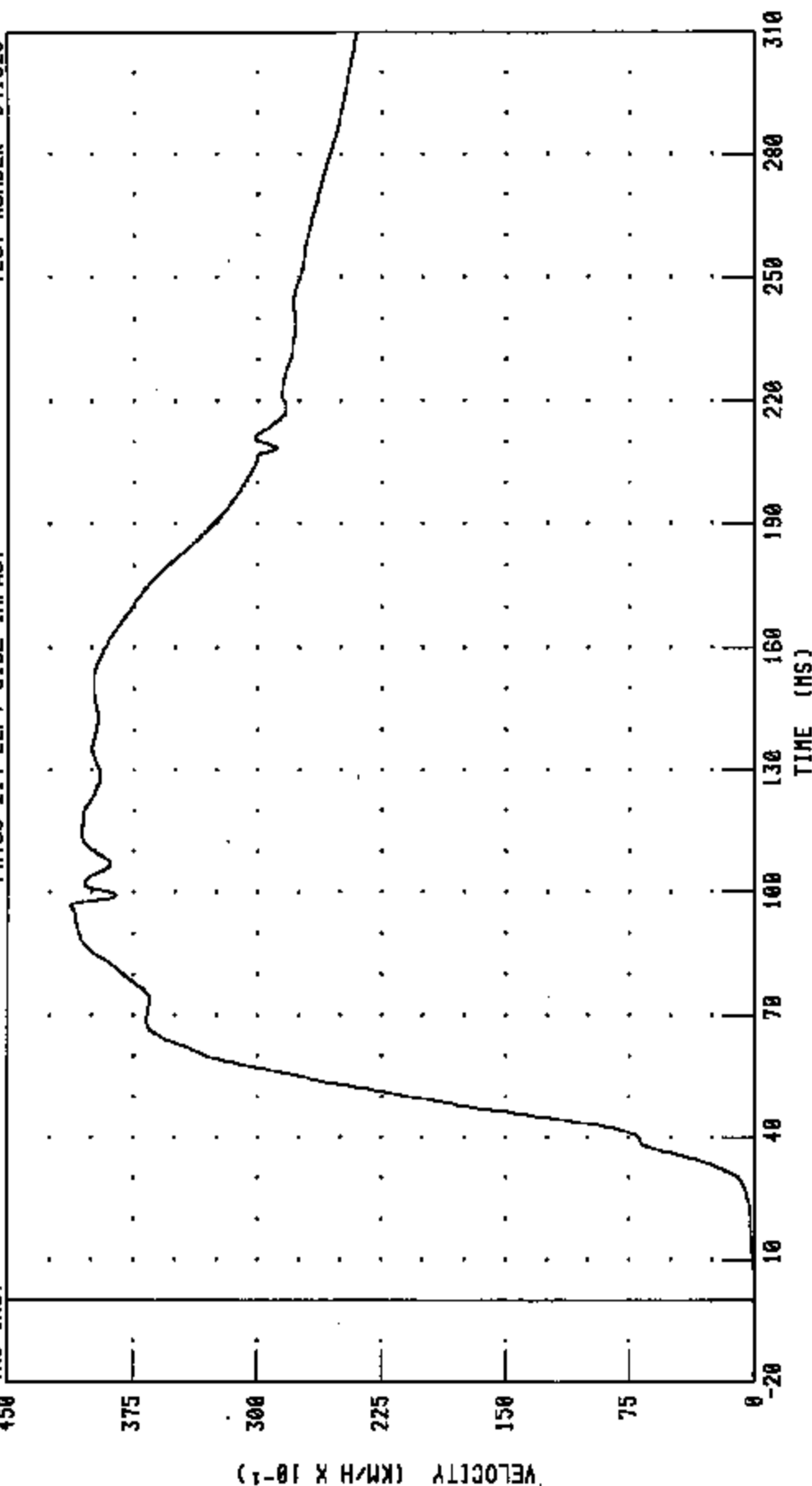
PEAK DATA: 79.67 G @ 207.12 MS; -229.00 G @ 98.00 MS

55/28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2005 SCION TC
LEFT REAR PASSENGER UPPER RIB Y-AXIS REDUNDANT VELOCITY

TRC INC.

FNYS 214 LEFT SIDE IMPACT

TEST NUMBER: 041020



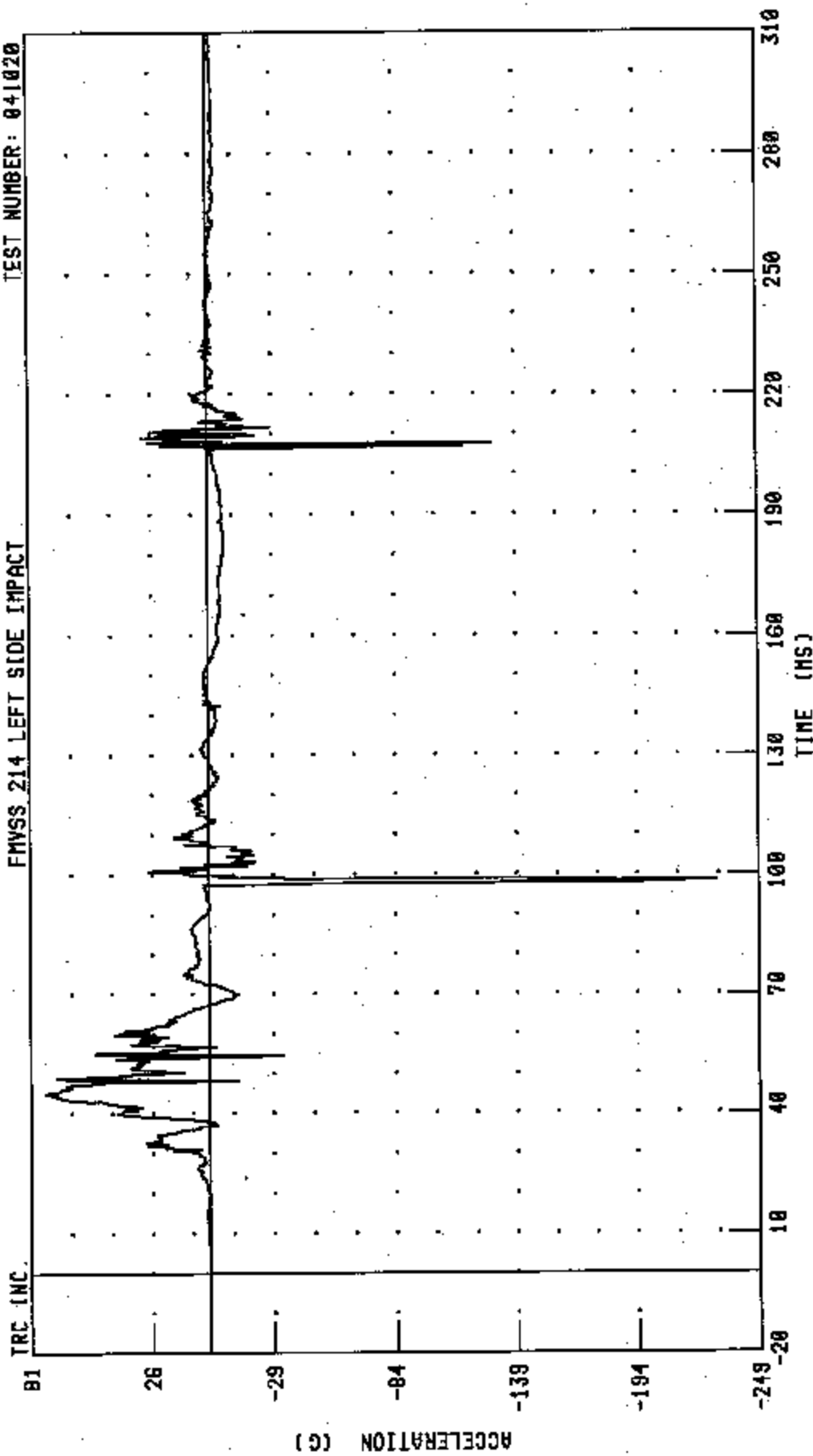
CHANNEL: LURYVJ FILTER: CH. CLASS 180

PEAK DATA: 41.25 KM/H @ 96.80 MS; 0.00 KM/H @ 0.00 MS

55/20 KPH 90 DEGREE SIDE IMPACT MOVING DEFORMABLE BARRIER INTO LEFT SIDE OF 2005 SCION TC
LEFT REAR PASSENGER LOWER RIB Y-AXIS REDUNDANT ACCELERATION

TEST NUMBER: 041020

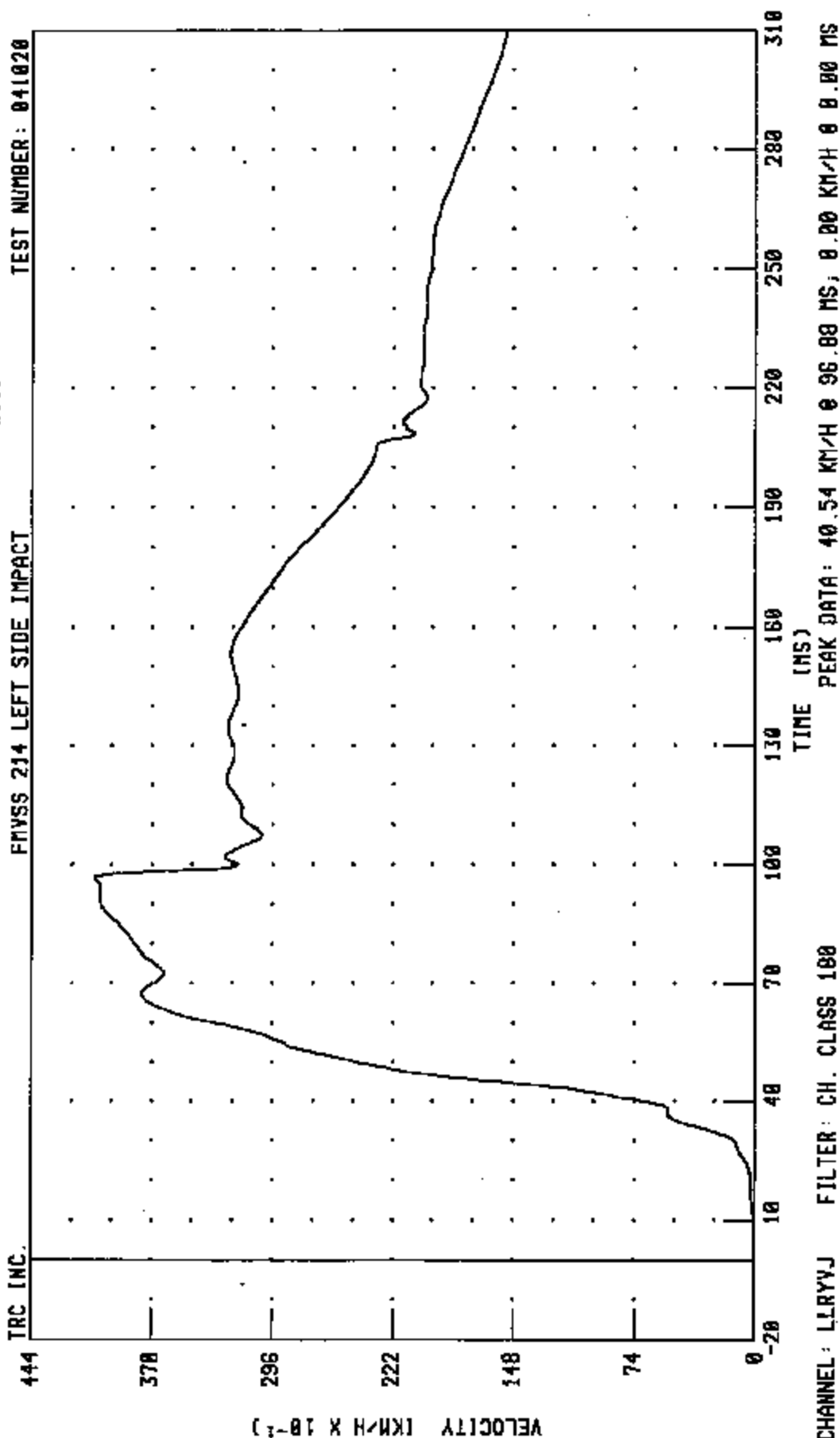
FMVSS 214 LEFT SIDE IMPACT



CHANNEL: LURVR4 FILTER: CH. CLASS 1000

PEAK DATA: 74.43 G @ 45.28 MS, -230.19 G @ 98.56 MS

55/28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2005 SCION TC
LEFT REAR PASSENGER LOWER RIB Y-AXIS REDUNDANT VELOCITY

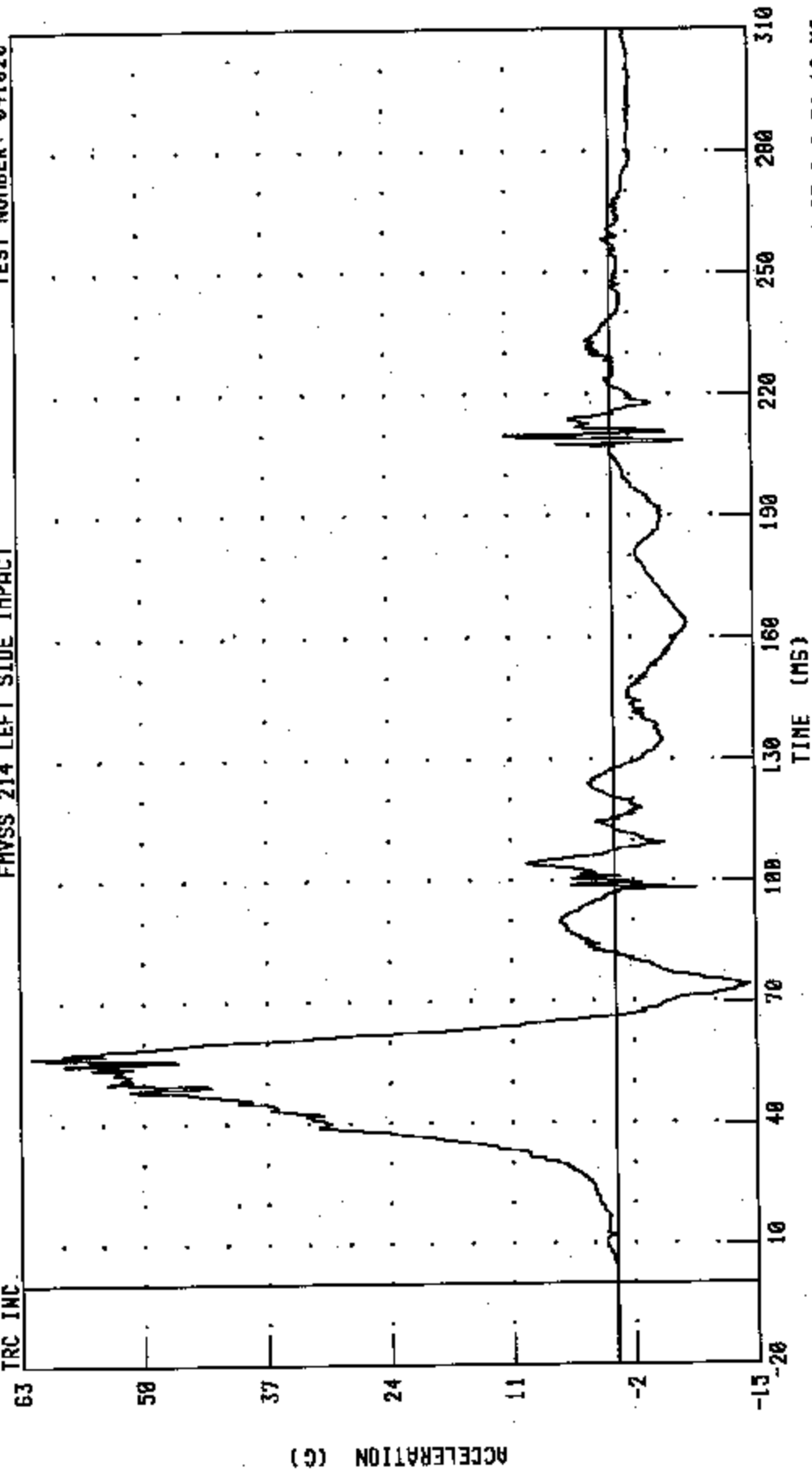


55/28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2005 SCION TC
LEFT REAR PASSENGER LOWER SPINE Y-AXIS REDUNDANT ACCELERATION

TEST NUMBER: 041020

FMVSS 214 LEFT SIDE IMPACT

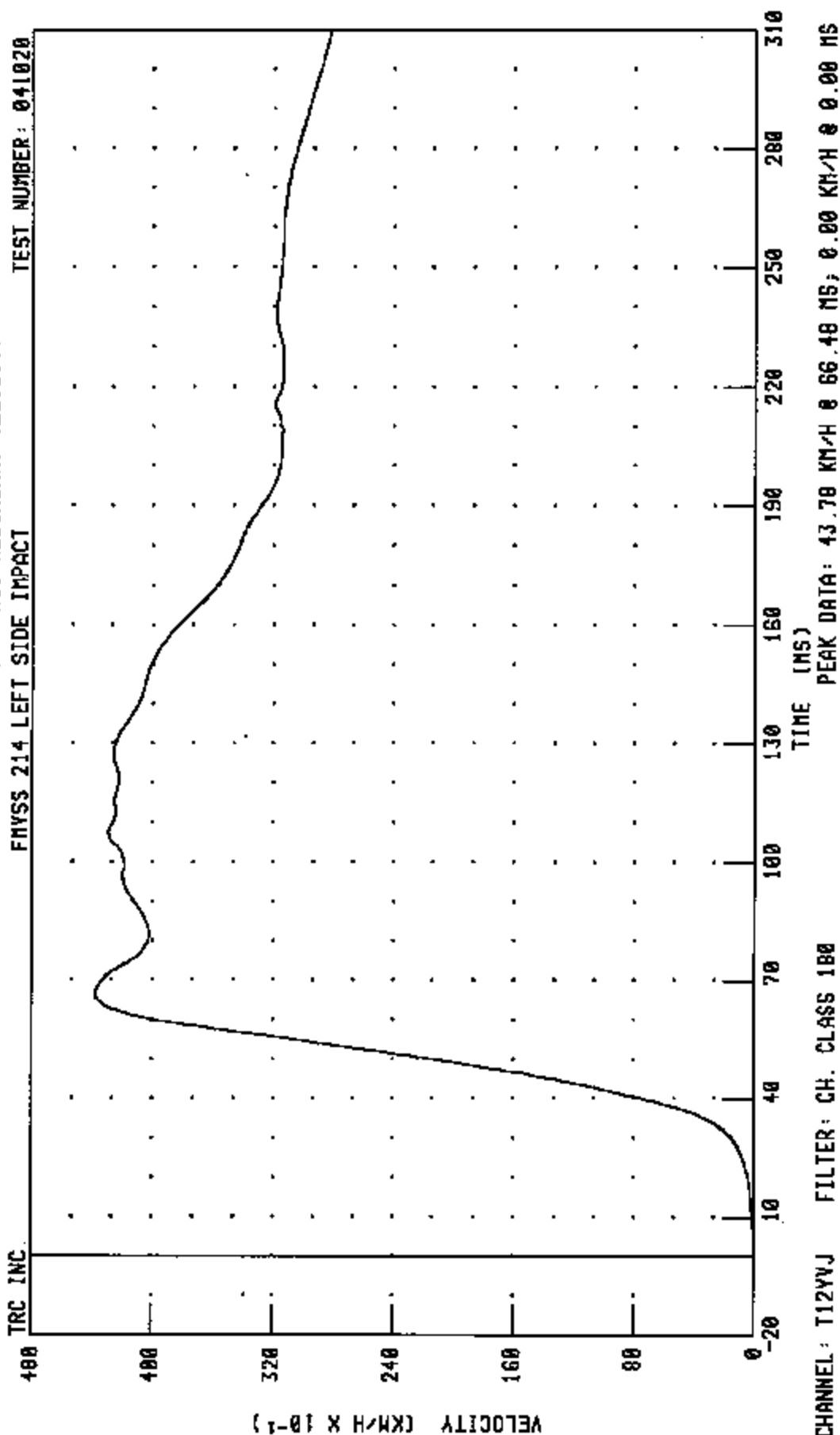
TRC INC.



CHANNEL: T12YR4 FILTER: CH. CLASS 1000

PEAK DATA: 61.95 G @ 56.48 MS, -14.23 G @ 74.16 MS

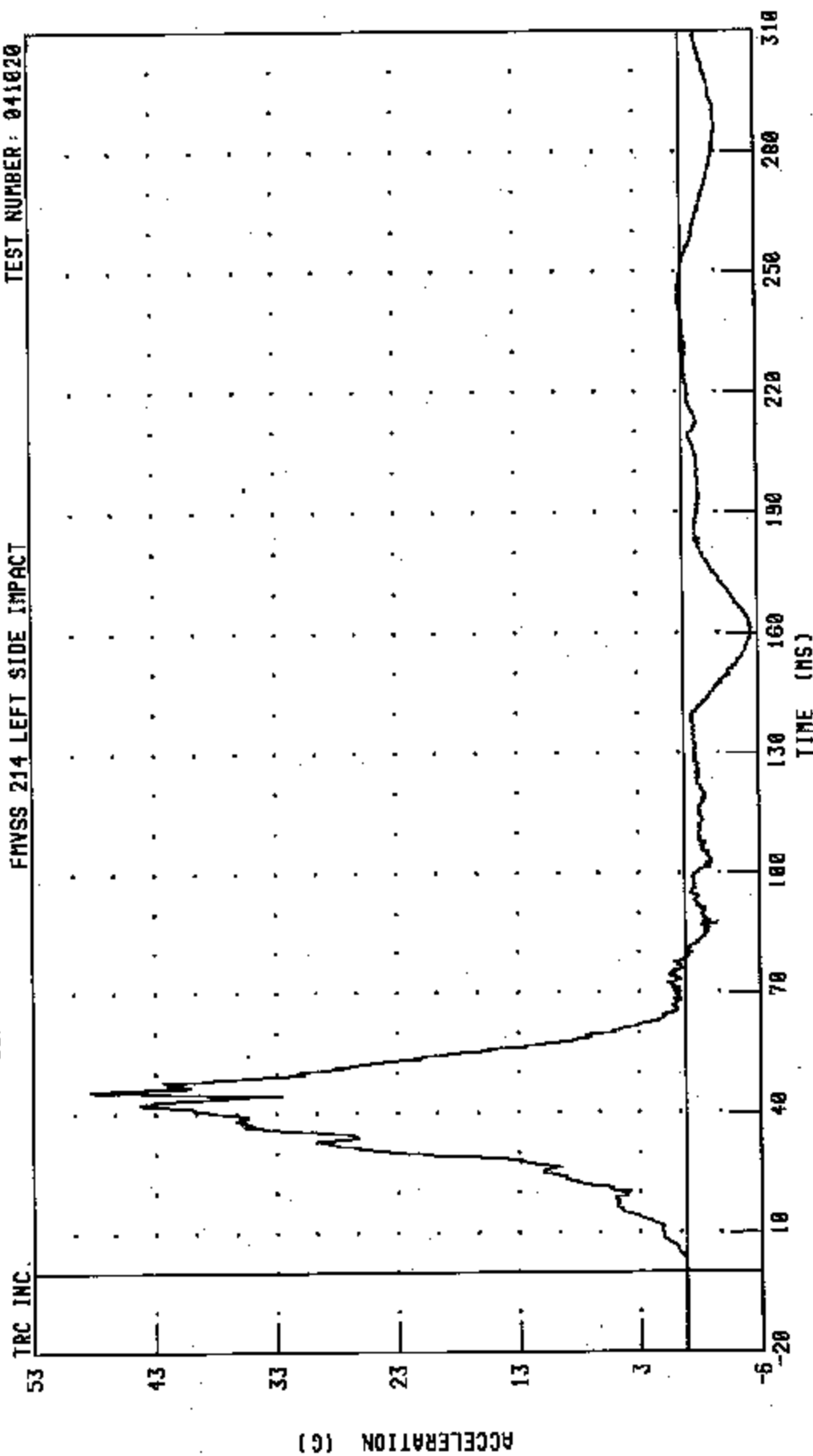
55/28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2005 SCION TC
LEFT REAR PASSENGER LOWER SPINE Y-AXIS REDUNDANT VELOCITY



55/28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2005 SCION TC
LEFT REAR PASSENGER PELVIS Y-AXIS REDUNDANT ACCELERATION

TEST NUMBER: 041020

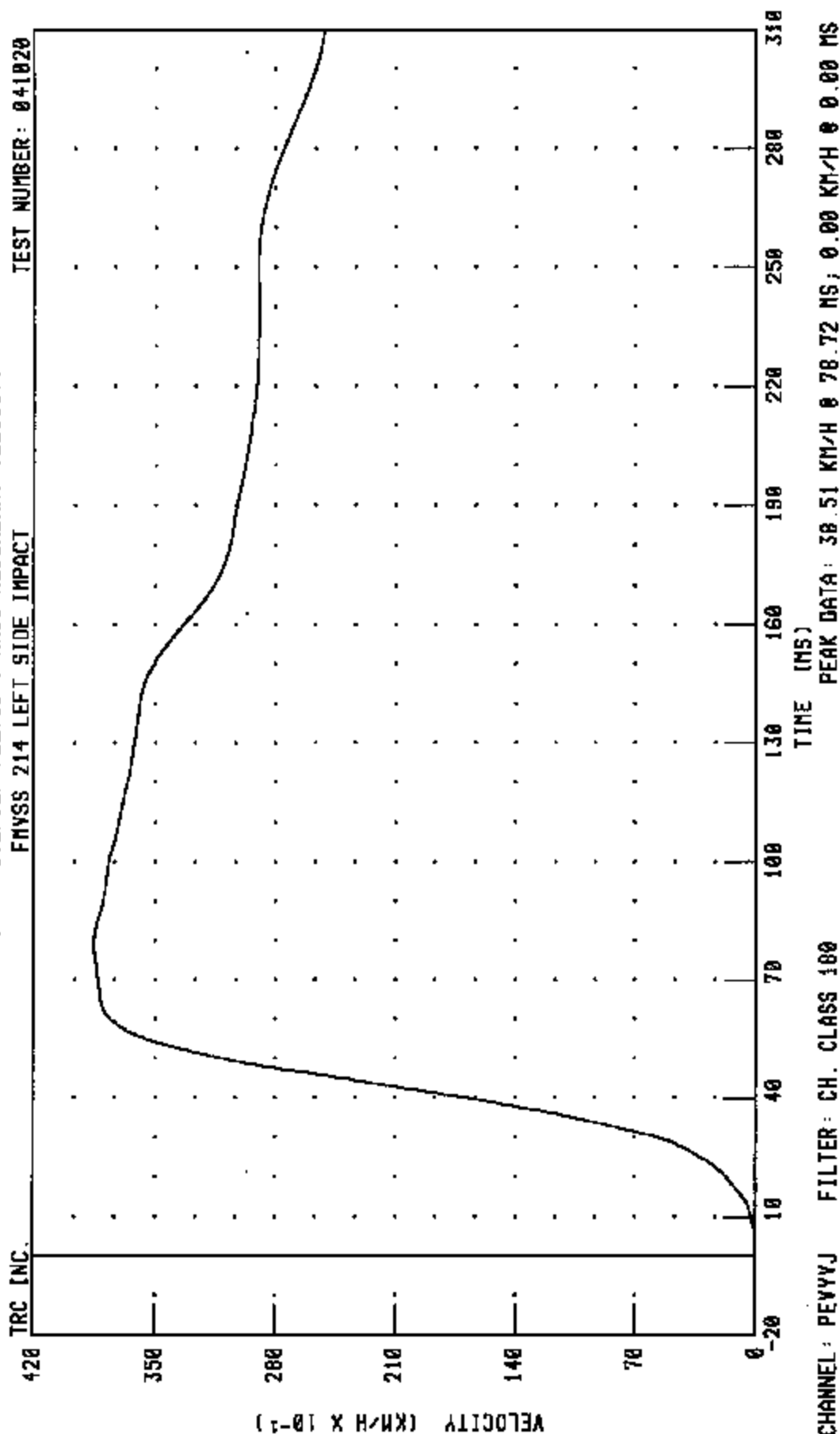
FMVSS 214 LEFT SIDE IMPACT



CHANNEL: PEVYR4 FILTER: CH. CLASS 1000

(G) ACCELERATION

55/28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2005 SCION TC
LEFT REAR PASSENGER PELVIS Y-AXIS REDUNDANT VELOCITY



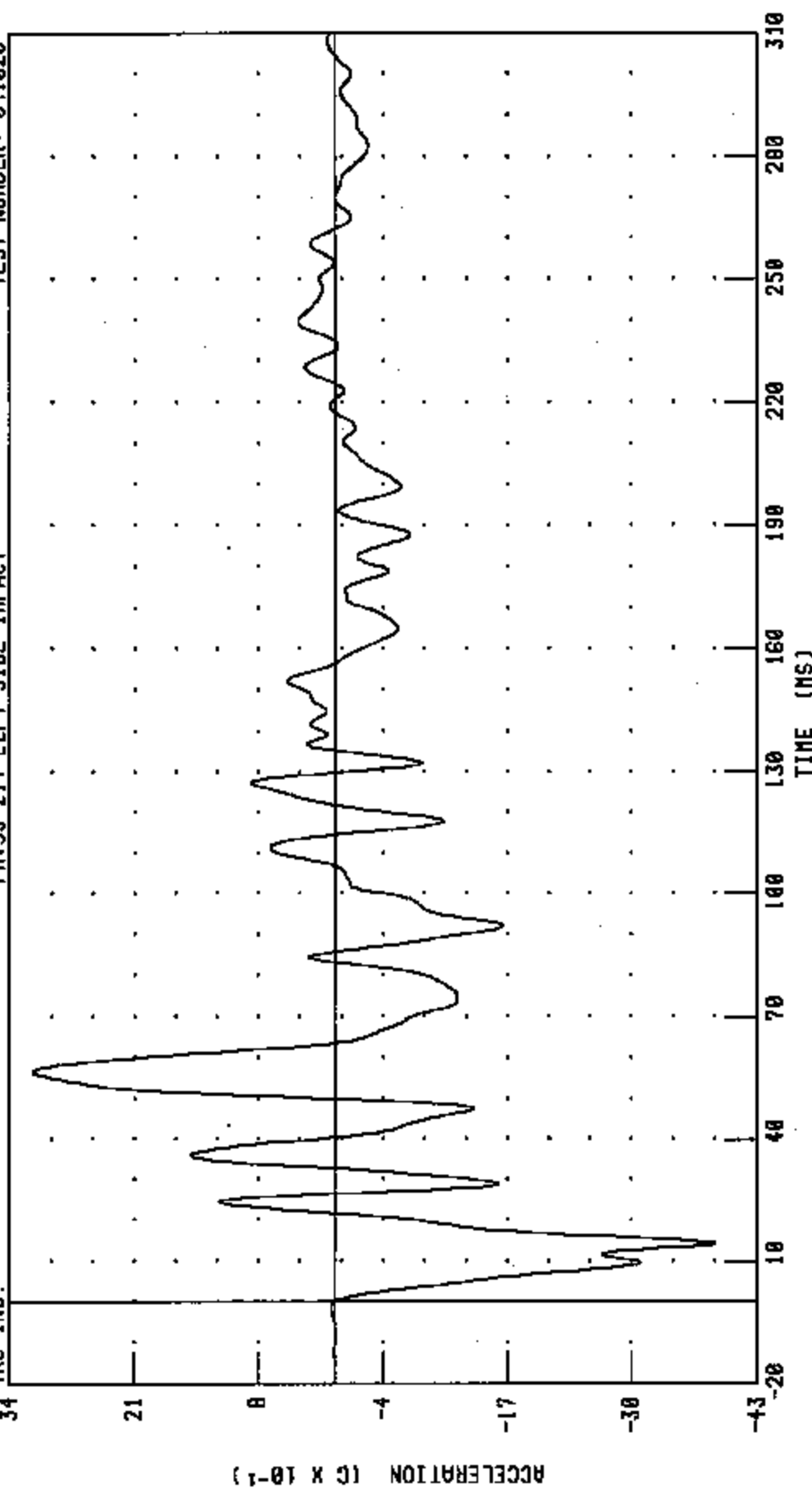
Test Vehicle Instrumentation Plots

55/28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2005 SCION TC
RIGHT SIDE SILL AT FRONT SEAT X-AXIS ACCELERATION

TRC INC.

FNVS 214 LEFT SIDE IMPACT

TEST NUMBER: 041020



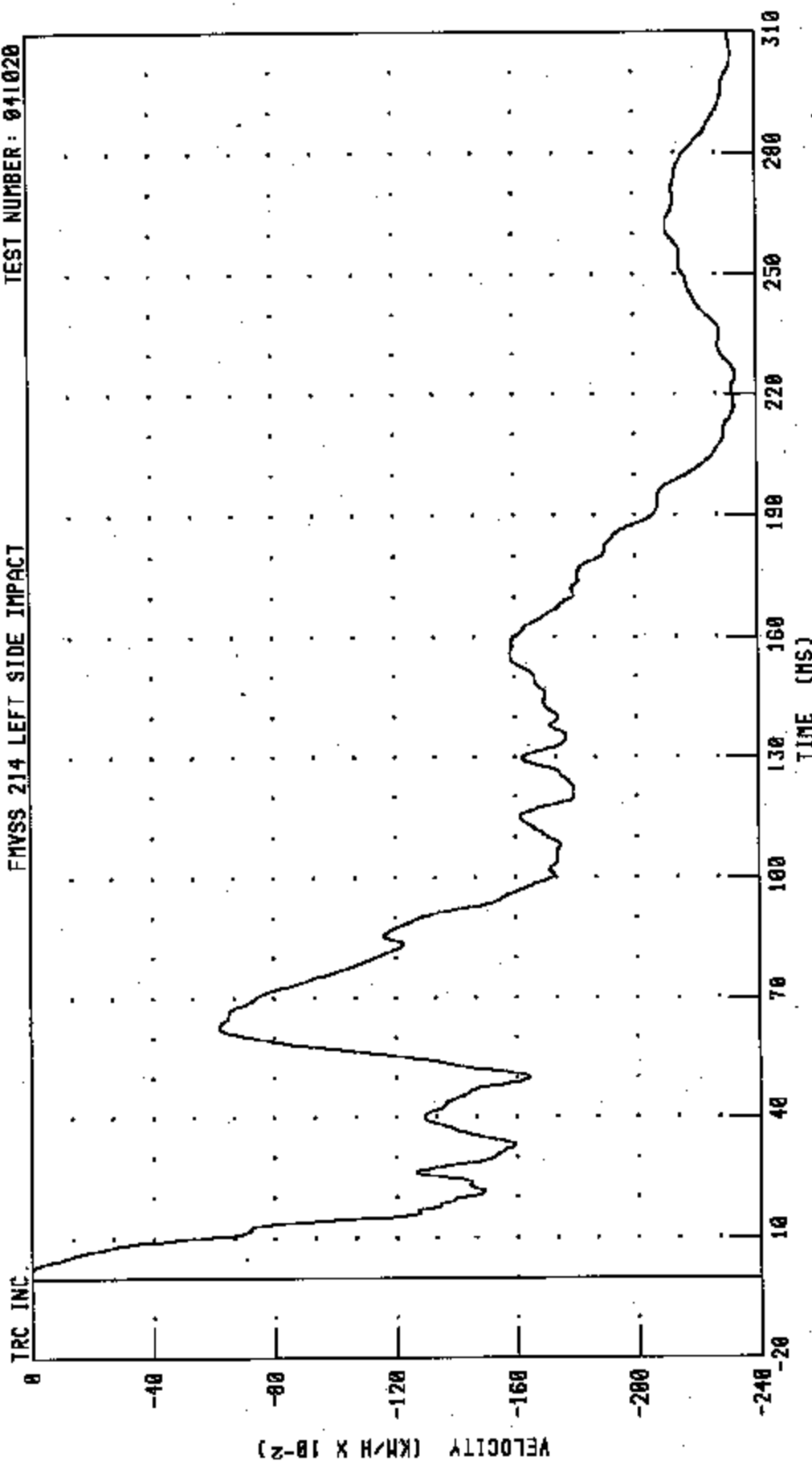
CHANNEL: RFSXG1 FILTER: CH. CLASS 60

PEAK DATA: 3.15 G @ 56.48 MS, -3.97 G @ 14.32 MS

55/28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2085 SCION TC
RIGHT SIDE SILL AT FRONT SEAT X-AXIS VELOCITY

TEST NUMBER: 041020

FMVSS 214 LEFT SIDE IMPACT



CHANNEL: RFSXV1 FILTER: CH. CLASS 100

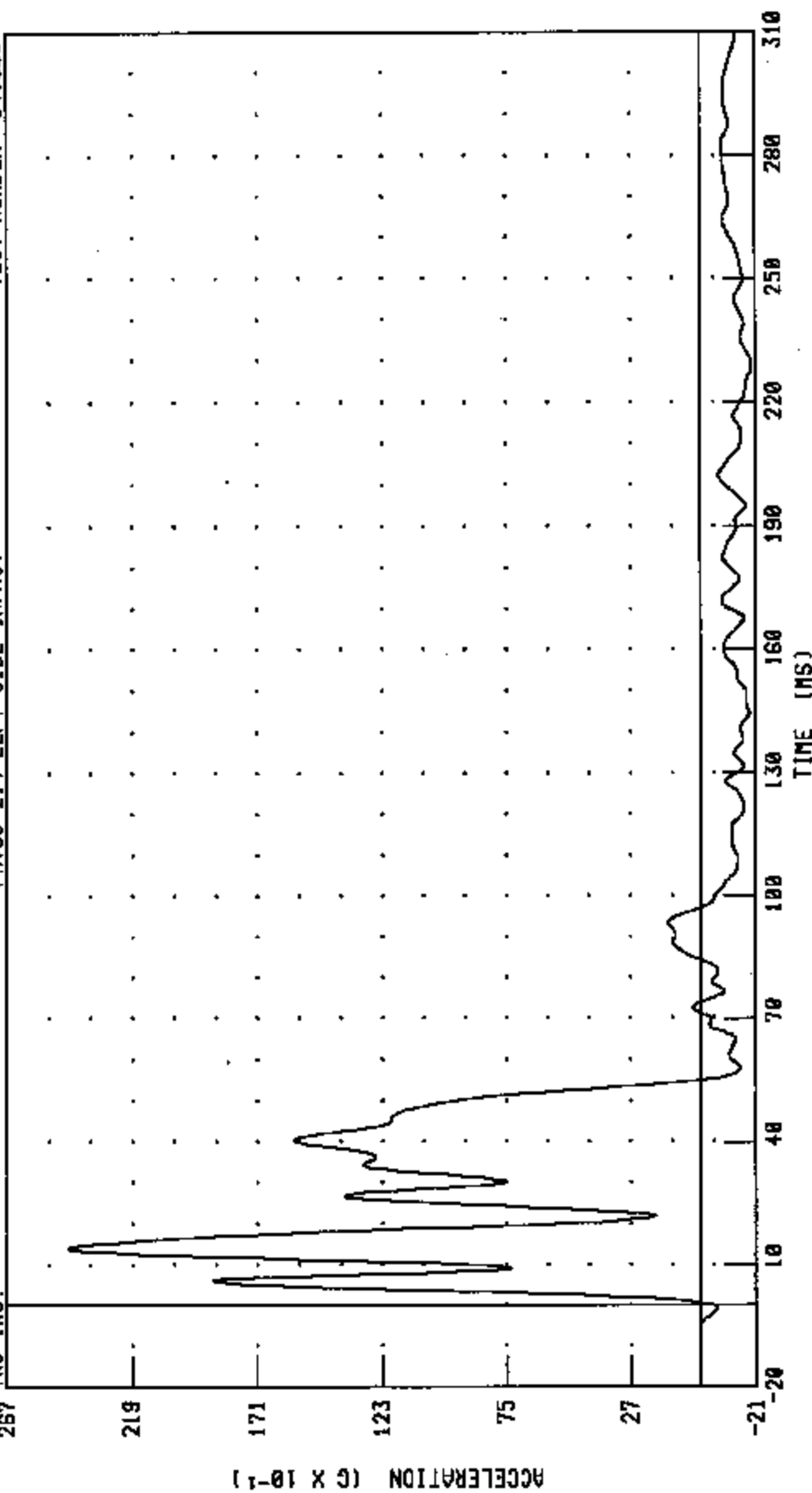
PEAK DATA: 0.00 KM/H @ 1.52 MS, -2.33 KM/H @ 224.48 MS

55/20 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2005 SCION TC
RIGHT SIDE SILL AT FRONT SEAT Y-AXIS ACCELERATION

TEST NUMBER: 041020

FMVSS 214 LEFT SIDE IMPACT

TRC INC.



CHANNEL: RFSYC1 FILTER: CH. CLASS 60

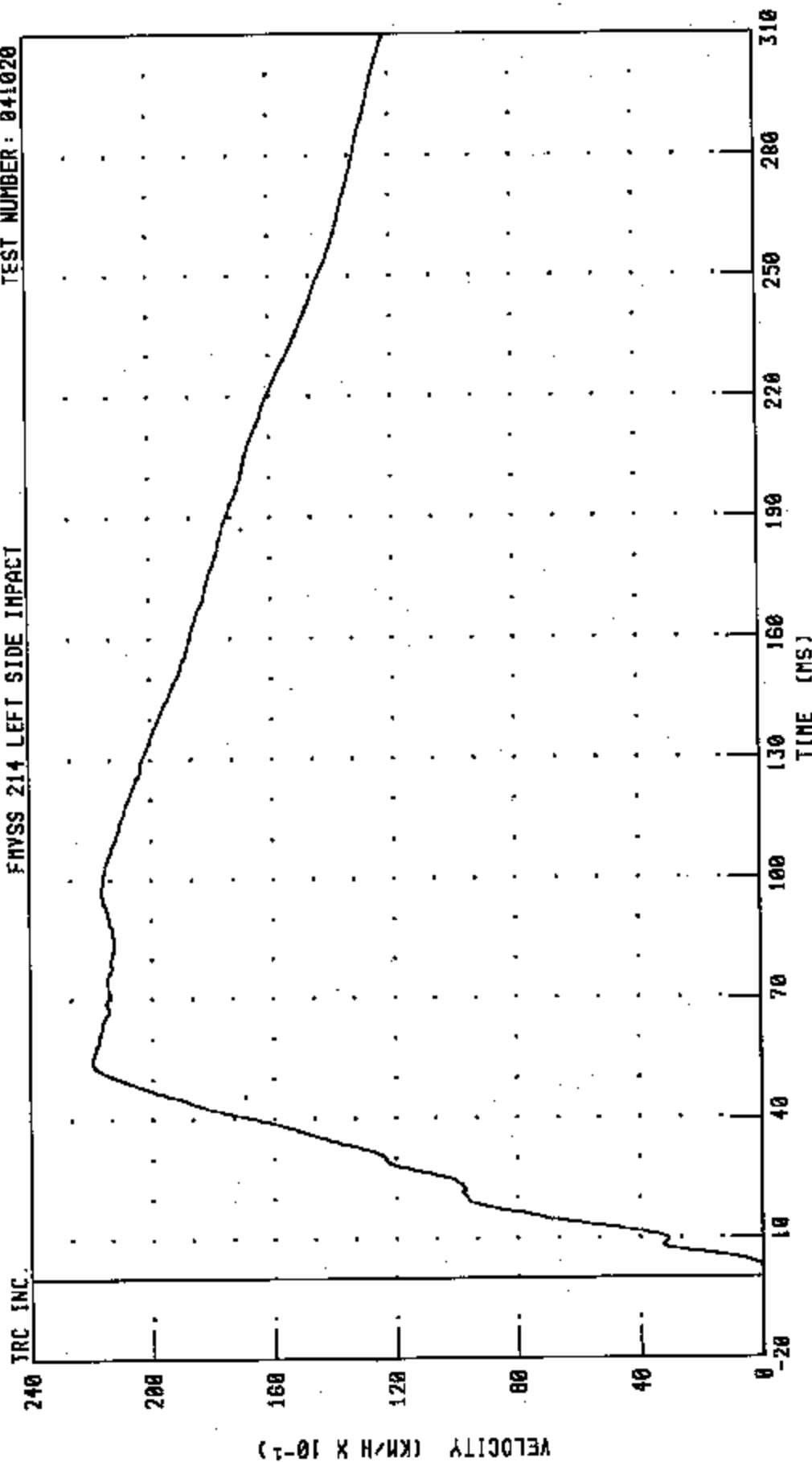
PEAK DATA: 24.34 G @ 14.00 MS; -1.94 G @ 229.12 MS

55/28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2805 SCION TC

RIGHT SIDE SILL AT FRONT SEAT Y-AXIS VELOCITY

TEST NUMBER: 041020

FMVSS 214 LEFT SIDE IMPACT



CHANNEL: RFSYV1 FILTER: CH. CLASS 100

PEAK DATA: 21.97 KM/H @ 54.56 MS; -0.01 KM/H @ 2.18 MS

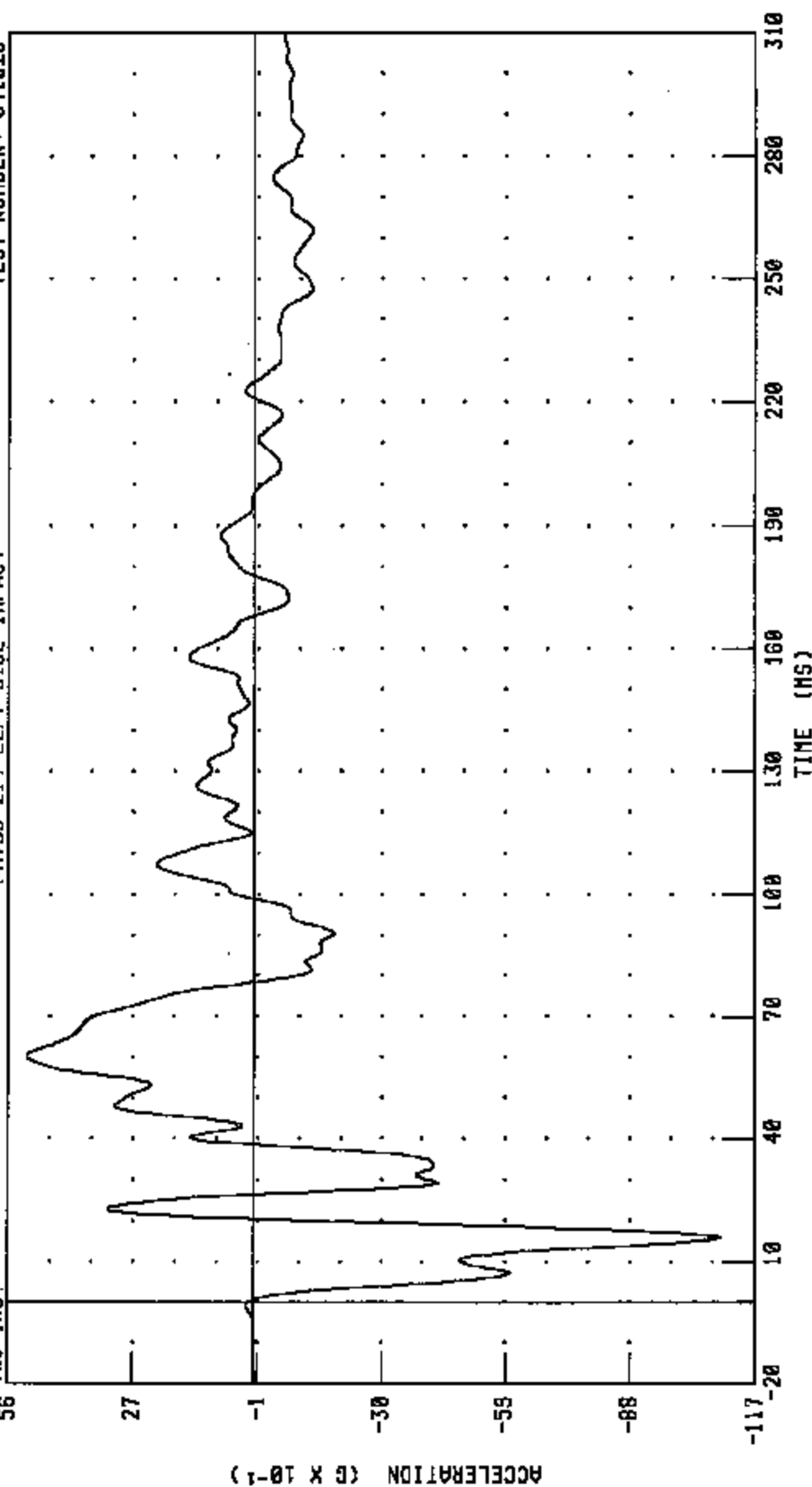
55/28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2005 SCION TC

RIGHT SIDE SILL AT FRONT SEAT Z-AXIS ACCELERATION

TRC INC.

FMVSS 214 LEFT SIDE IMPACT

TEST NUMBER: 041020



CHANNEL: RFSZG1 FILTER: CH. CLASS 60

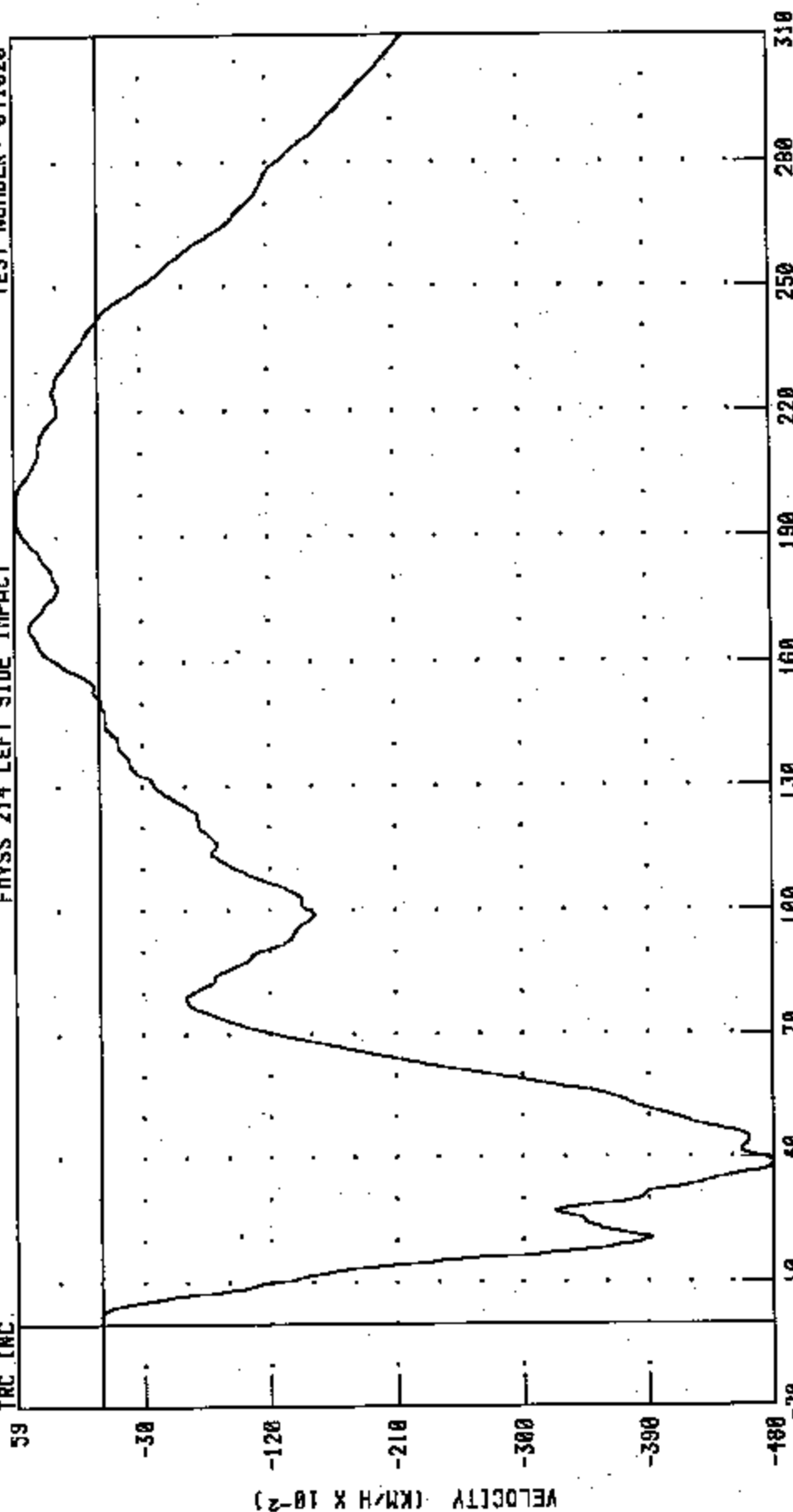
PEAK DATA: 5.27 G @ 60.24 MS; -10.93 G @ 16.00 MS

55/28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2005 SCION TC
RIGHT SIDE SILL AT FRONT SEAT Z-AXIS VELOCITY

TEST NUMBER: 041020

FHYSS 214 LEFT SIDE IMPACT

TRC (INC)

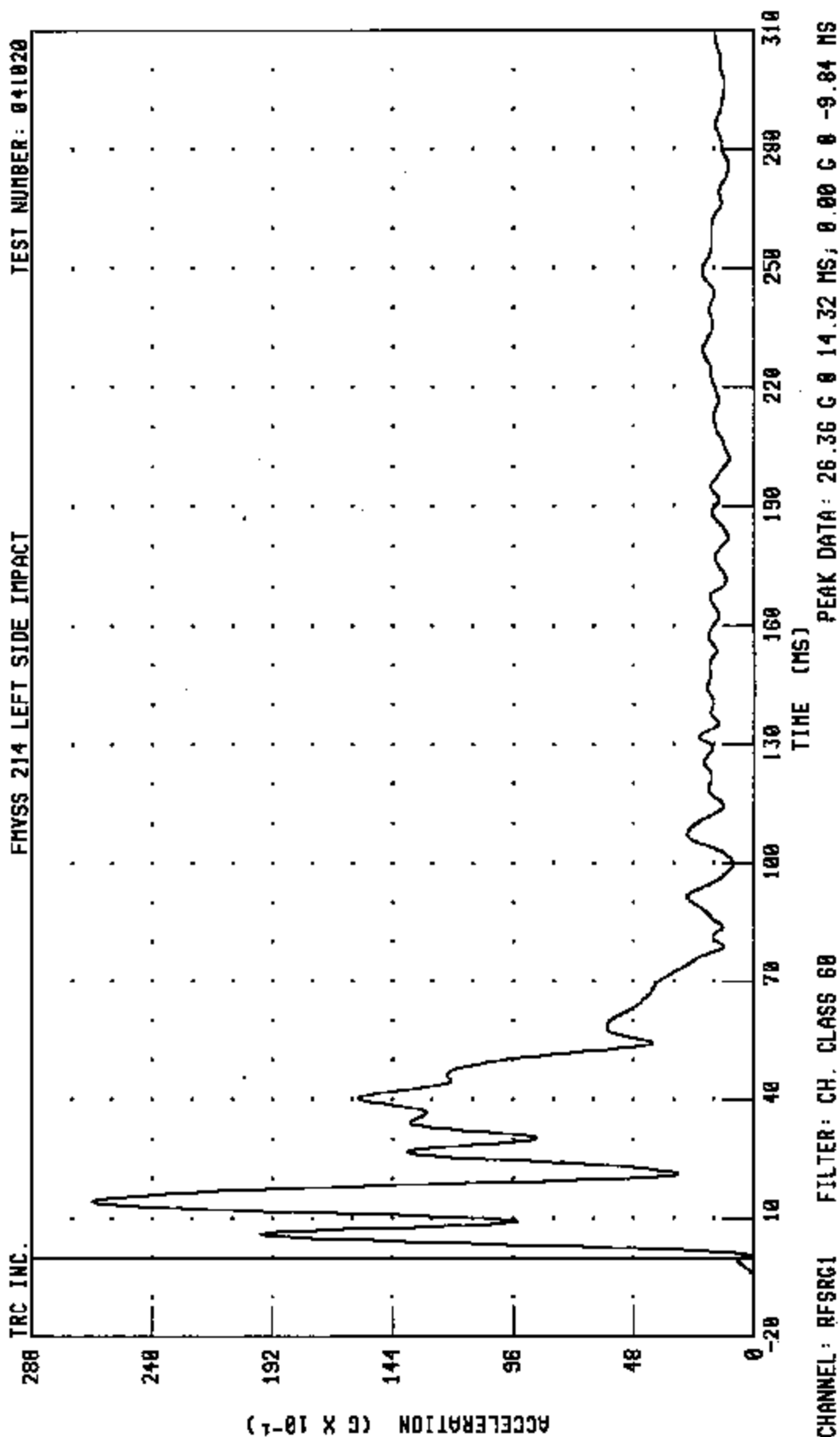


TIME (MS)

CHANNEL: RFS2V1 FILTER: CH. CLASS 180

PEAK DATA: 0.58 KM/H @ 198.64 MS, -4.81 KM/H @ 38.80 MS

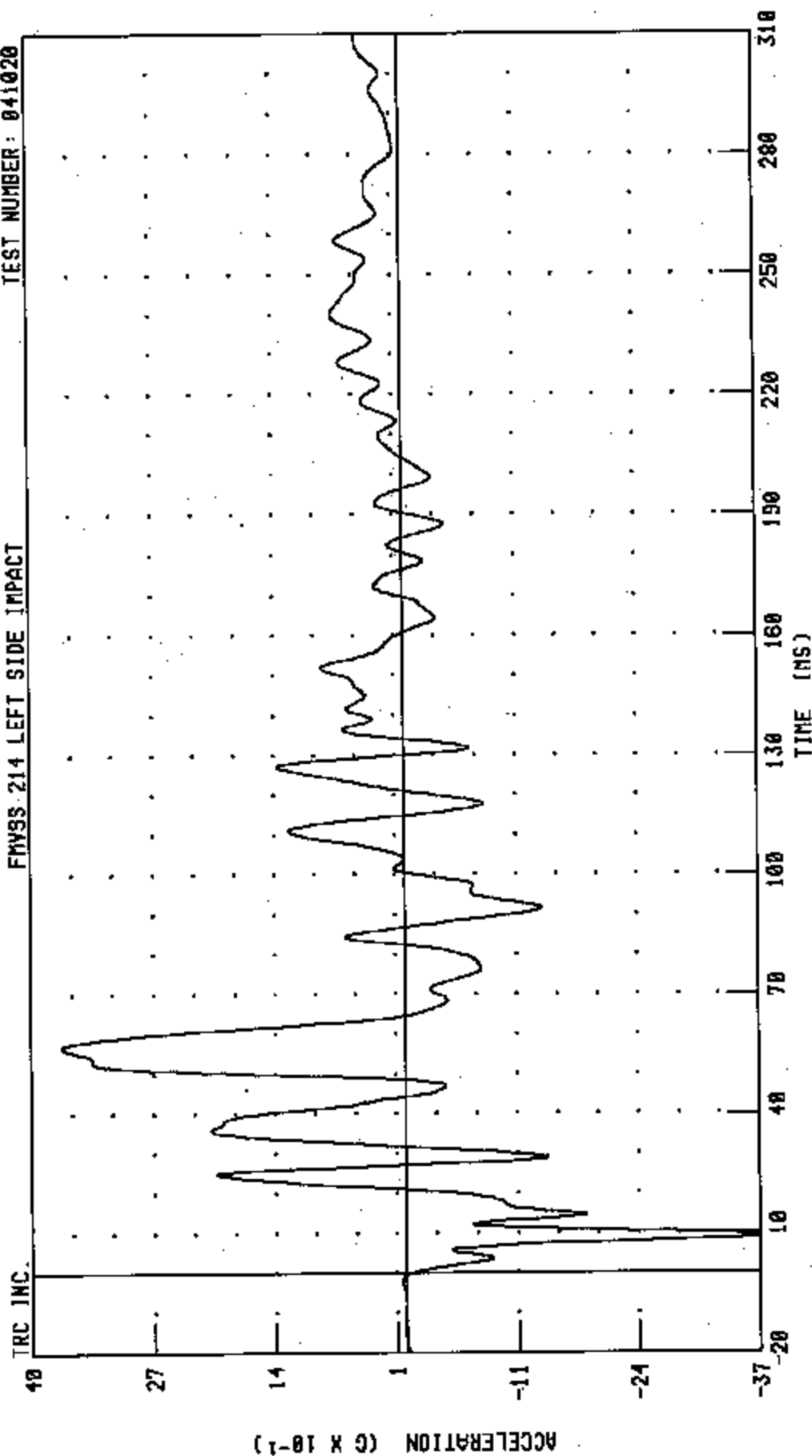
55/20 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2005 SCION TC
RIGHT SIDE SILL AT FRONT SEAT RESULTANT ACCELERATION



55/28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2005 SCION TC
RIGHT SIDE SILL AT REAR SEAT X-AXIS ACCELERATION

TEST NUMBER: 041020

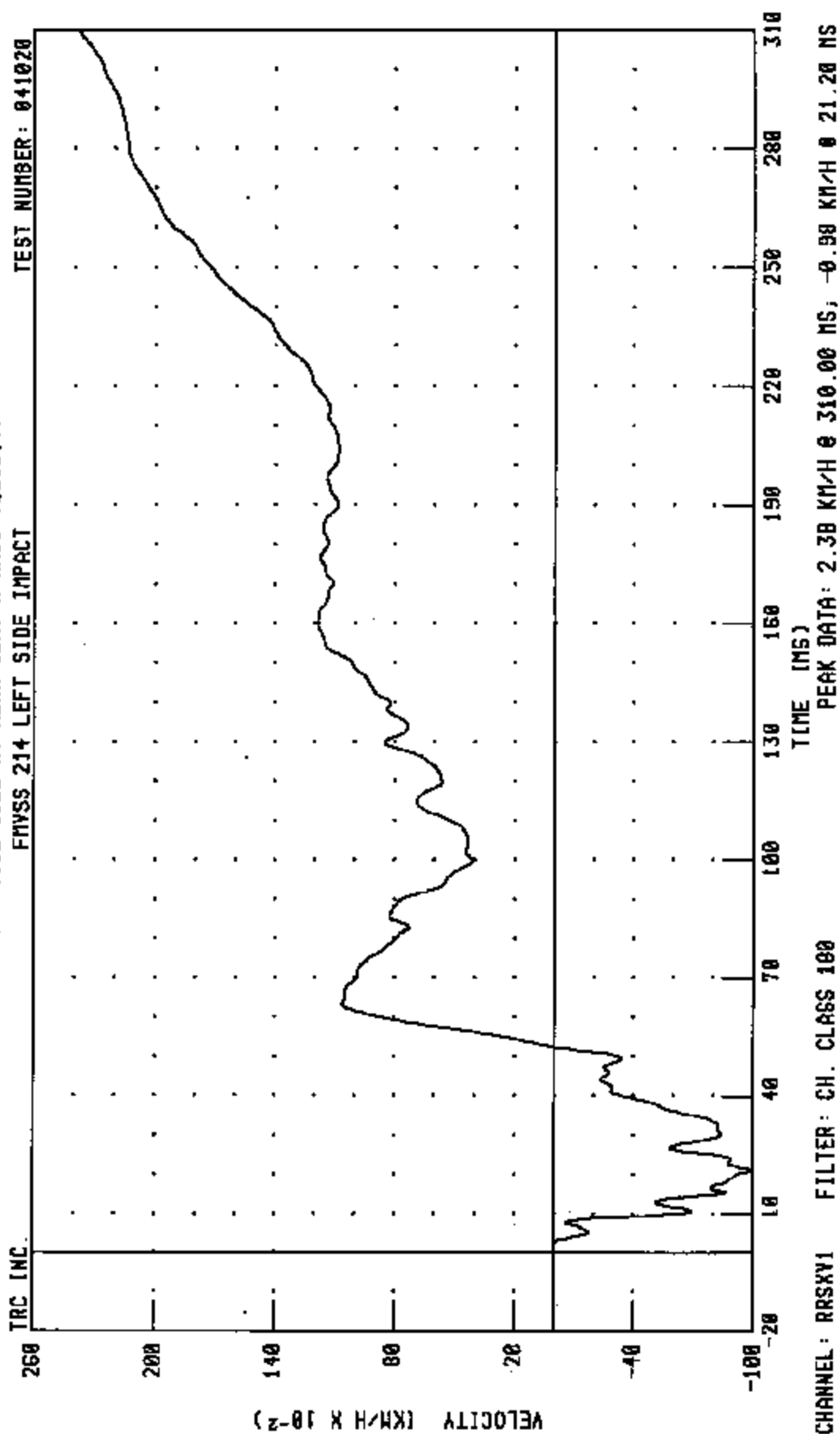
FMVSS 214 LEFT SIDE IMPACT



CHANNEL: RRSXG1 FILTER: CH. CLASS 60

PEAK DATA: 3.67 G @ 56.96 MS; -3.83 G @ 9.28 MS

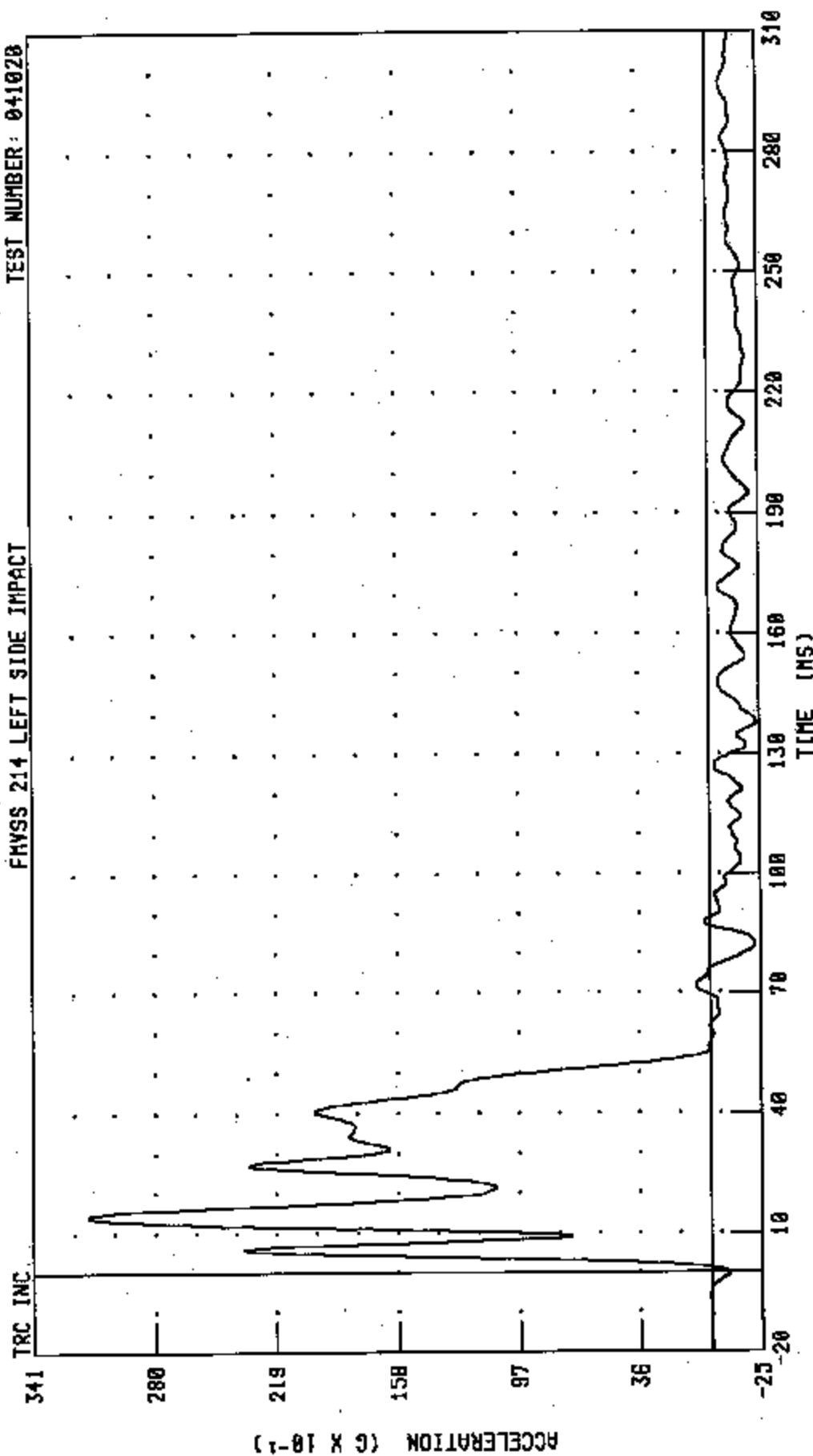
55/28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2005 SCION TC
RIGHT SIDE SILL AT REAR SEAT X-AXIS VELOCITY



55/28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2005 SCION TC
RIGHT SIDE SILL AT REAR SEAT Y-AXIS ACCELERATION

TEST NUMBER: 041020

FMVSS 214 LEFT SIDE IMPACT

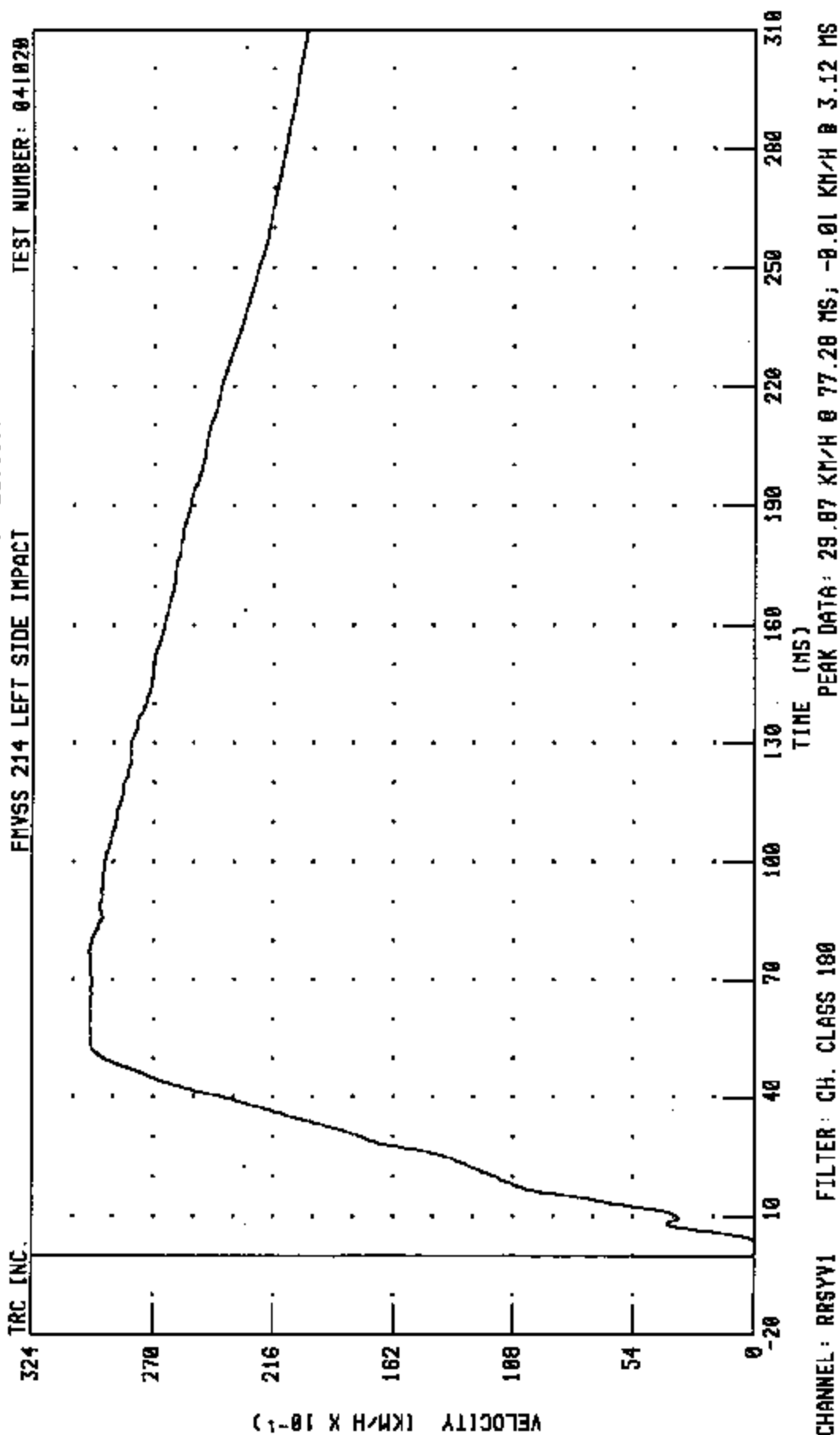


CHANNEL: RRSYG1 FILTER: CH. CLASS 60

PEAK DATA: 31.38 G @ 14.40 MS, -2.33 G @ 137.92 MS

55/28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2005 SCION TC

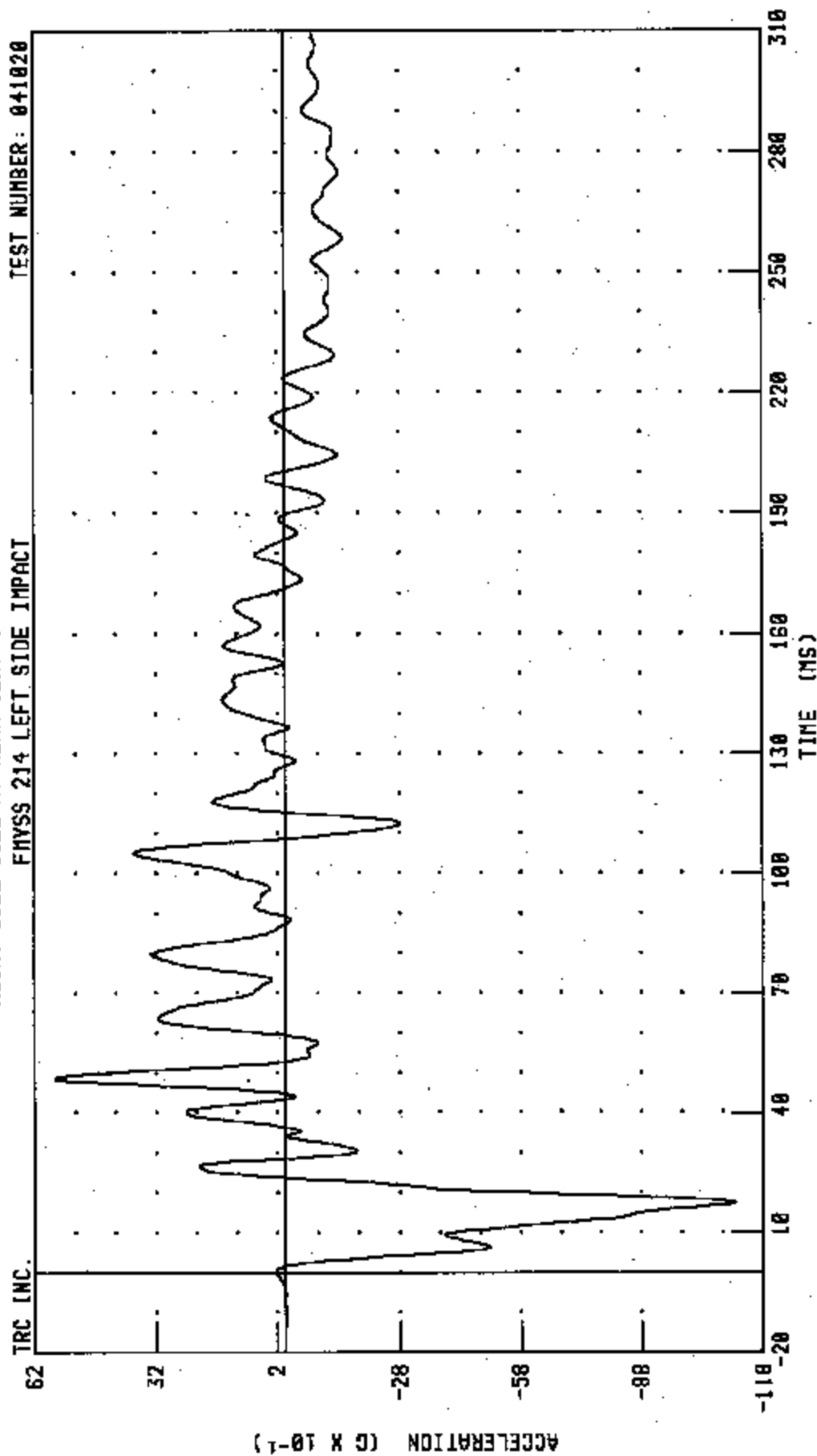
RIGHT SIDE SILL AT REAR SEAT Y-AXIS VELOCITY



55/20 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2005 SCION TC
RIGHT SIDE SILL AT REAR SEAT Z-AXIS ACCELERATION

TEST NUMBER: 041020

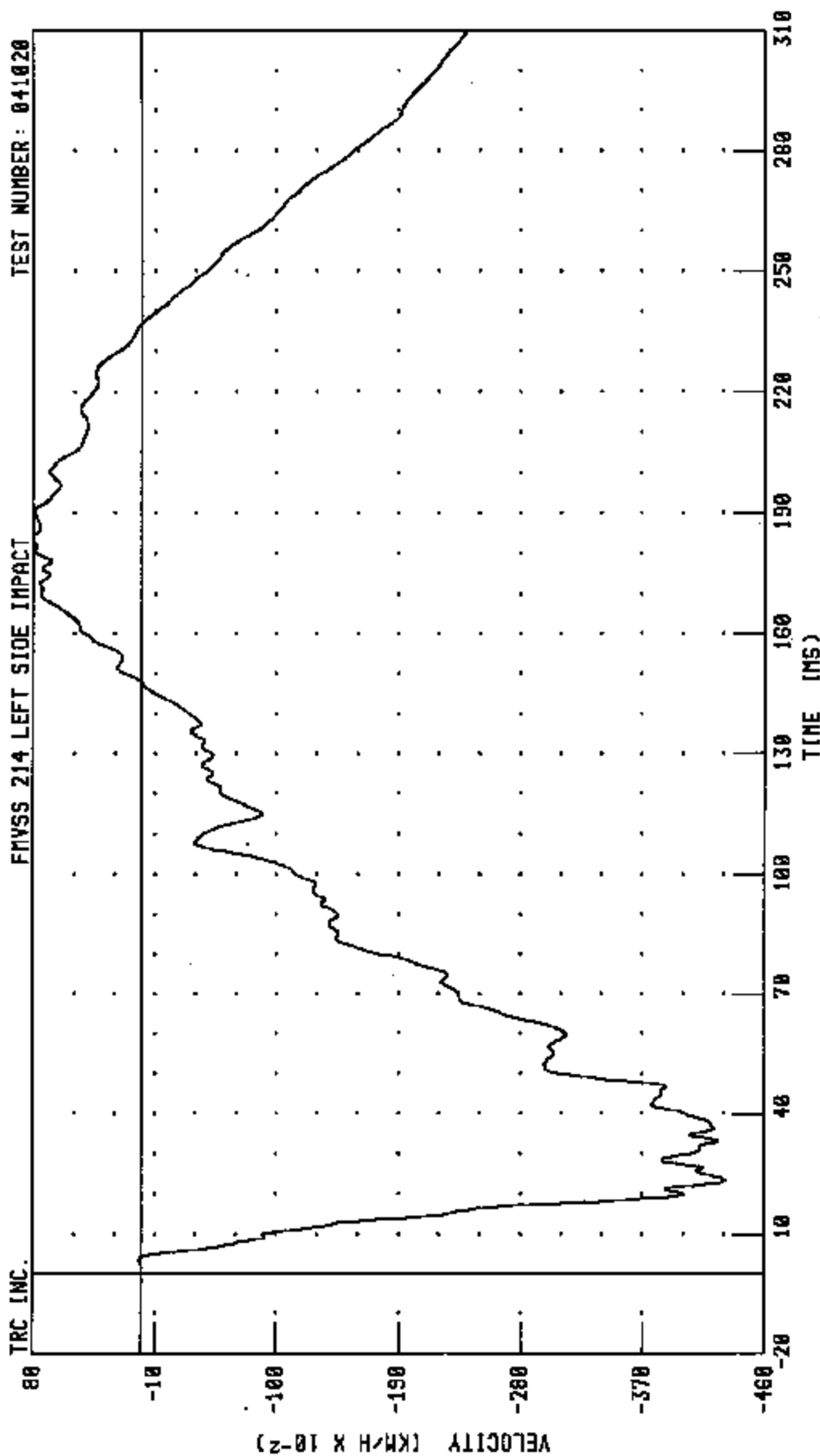
FRYSS 214 LEFT SIDE IMPACT



CHANNEL: RRSZG1 FILTER: CH. CLASS 60

PEAK DATA: 5.71 G @ 48.80 MS, -11.12 G @ 17.52 MS

55/20 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2005 SCION TC
 RIGHT SIDE SILL AT REAR SEAT Z-AXIS VELOCITY



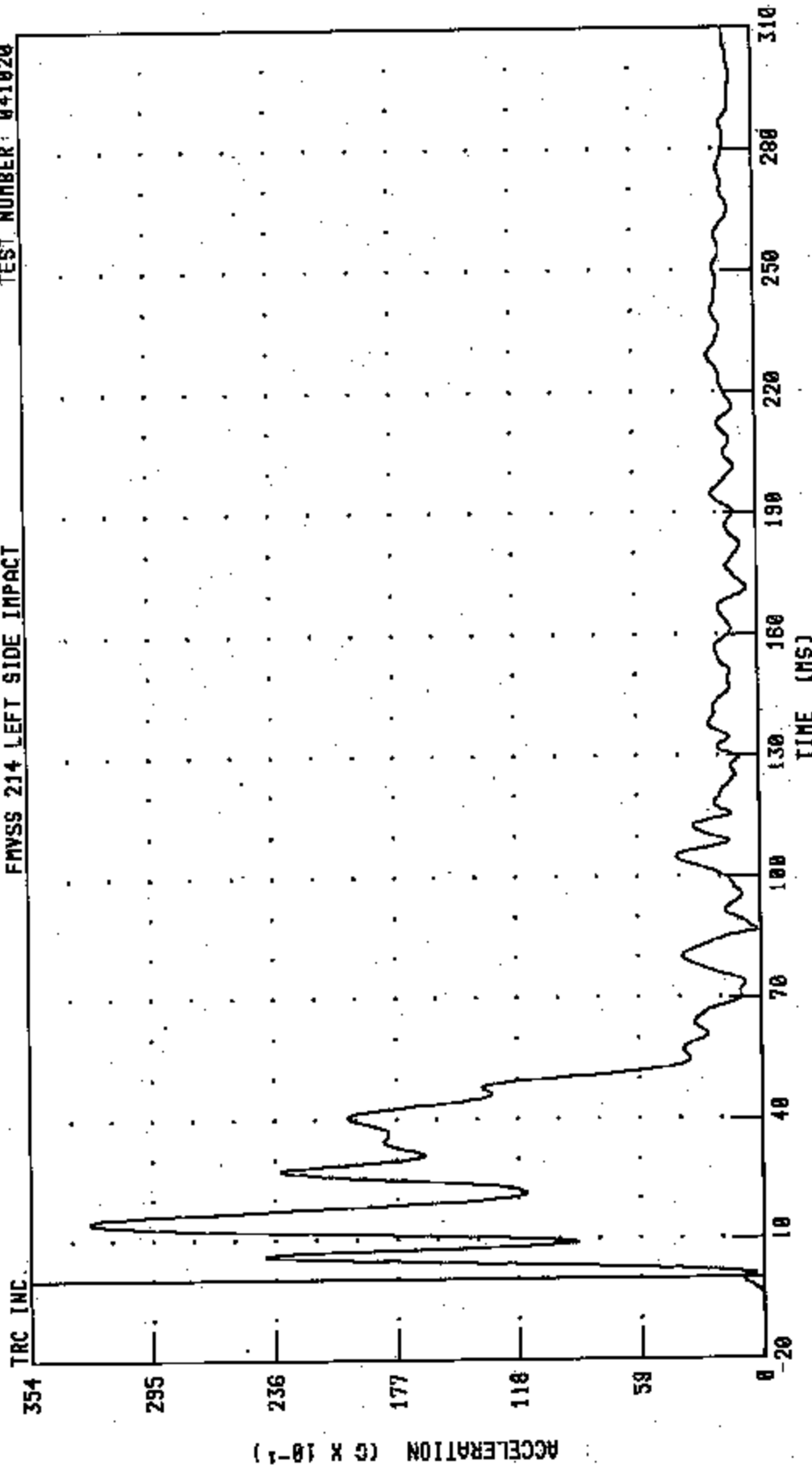
CHANNEL: RRSZV1 FILTER: CH. CLASS 100

PEAK DATA: 0.81 KM/H @ 183.92 MS; -4.31 KM/H @ 23.52 MS

55/28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2005 SCION TC
RIGHT SIDE SILL AT REAR SEAT RESULTANT ACCELERATION

TEST NUMBER: 041020

FMVSS 214 LEFT SIDE IMPACT

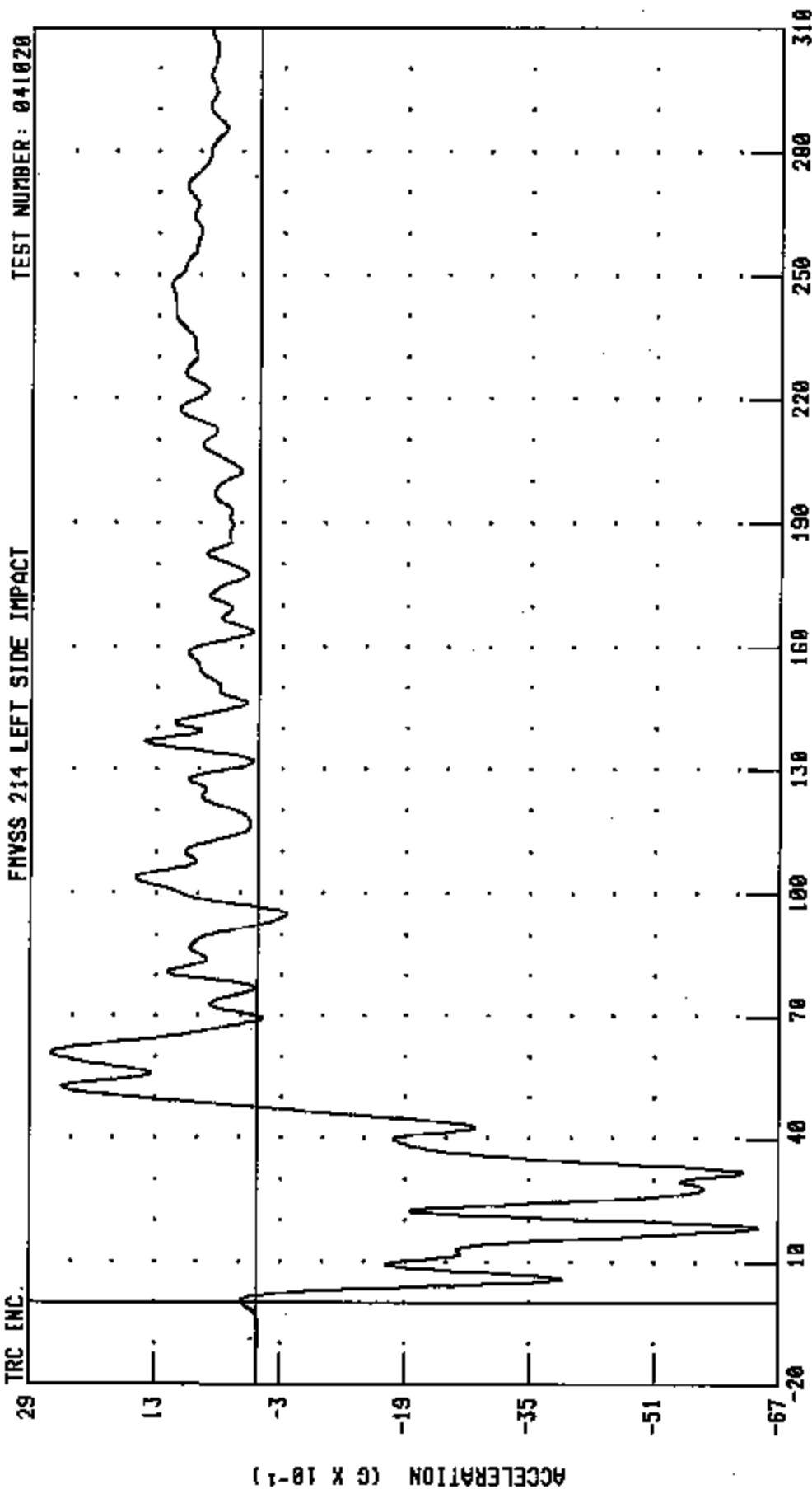


CHANNEL: RRRC1 FILTER: CH. CLASS 60

55/28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2005 SCION TC
 REAR FLOORPAN ABOVE AXLE X-AXIS ACCELERATION

TEST NUMBER: 041020

FNVS 214 LEFT SIDE IMPACT



CHANNEL: RDXG1 FILTER: CH. CLASS 60

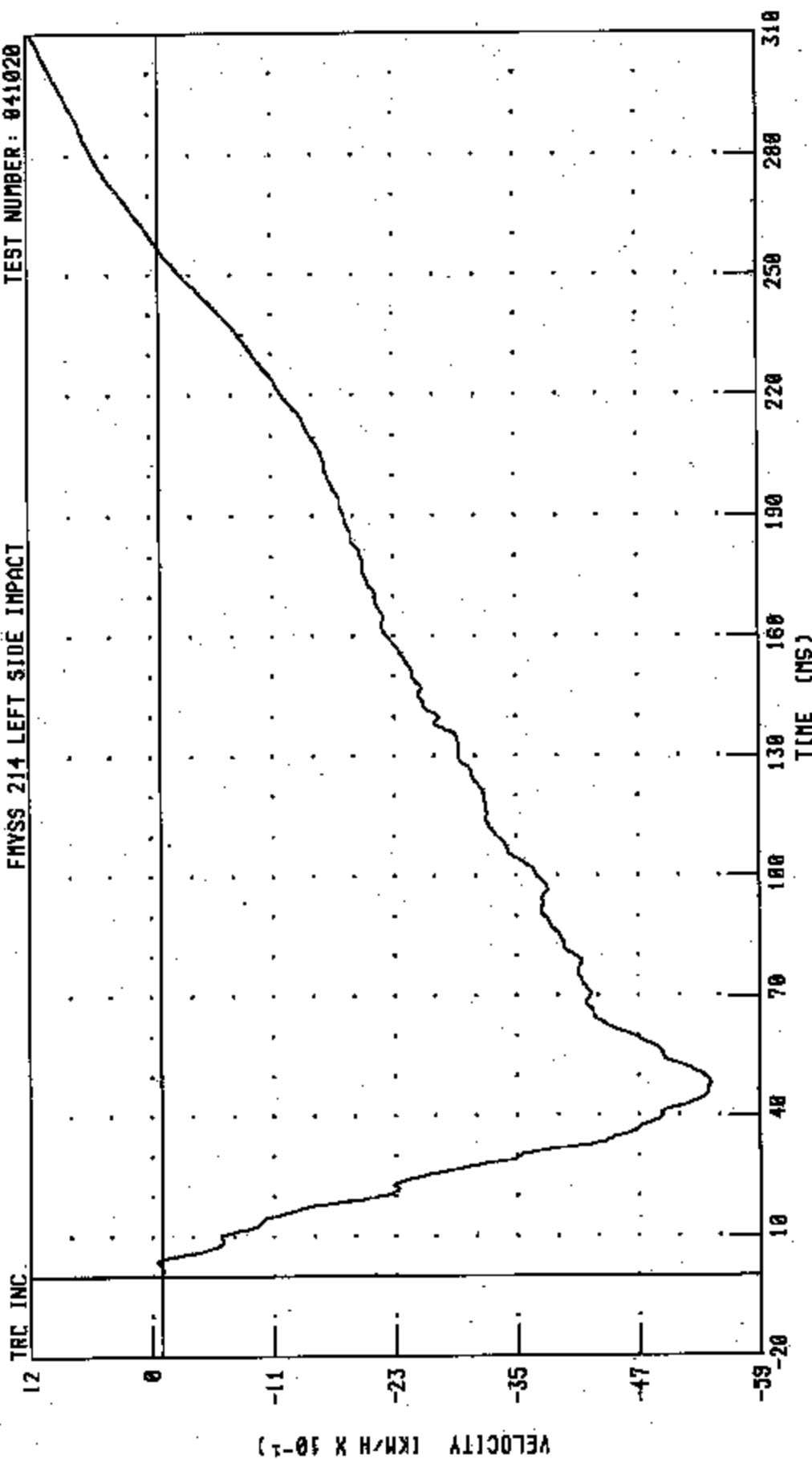
PEAK DATA: 2.64 G @ 61.04 MS; -6.44 G @ 18.40 MS

55/28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2005 SCION TC

REAR FLOORPAN ABOVE AXLE X-AXIS VELOCITY

FHYSS 214 LEFT SIDE IMPACT

TEST NUMBER: 041020



CHANNEL: ROKXX1 FILTER: CH. CLASS 180

PEAK DATA: 1.27 KM/H @ 310.00 MS, -5.41 KM/H @ 48.24 MS

55/28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2005 SCION TC
 REAR FLOORPAN ABOVE AXLE Y-AXIS ACCELERATION

TEST NUMBER: 041020

FMVSS 214 LEFT SIDE IMPACT

TRC INC.

317

259

201

143

85

27

-31

-20

10

40

70

100

130

160

190

220

250

280

310

TIME (MS)

ACCELERATION (G X 10⁻¹)

CHANNEL: RDXVC1

FILTER: CH. CLASS 60

PEAK DATA: 28.05 G @ 27.20 MS, -2.85 G @ 82.40 MS

041020-1

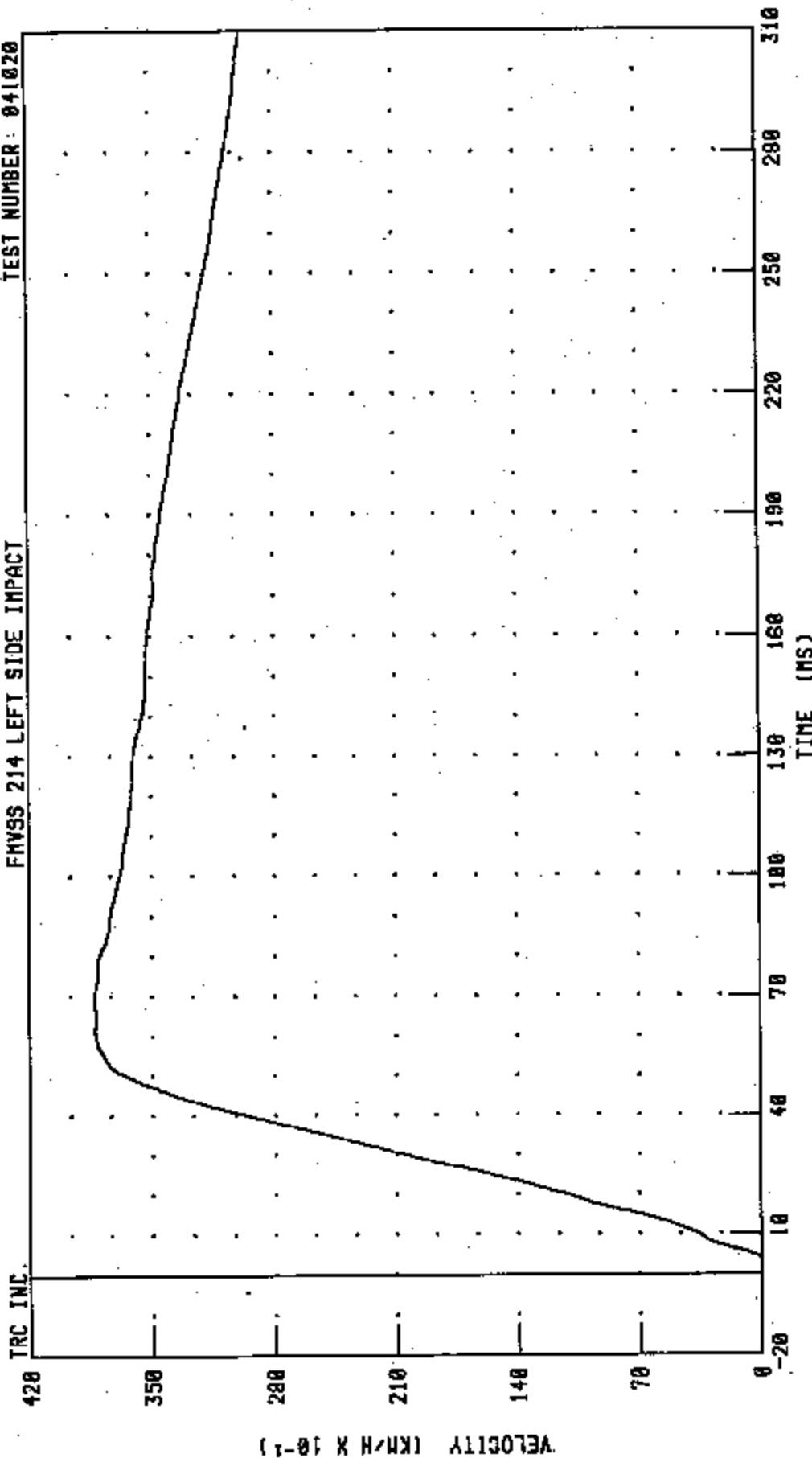
B-102

55/28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2005 SCION TC

REAR FLOORPAN ABOVE AXLE Y-AXIS VELOCITY

FMVSS 214 LEFT SIDE IMPACT

TEST NUMBER: 041020



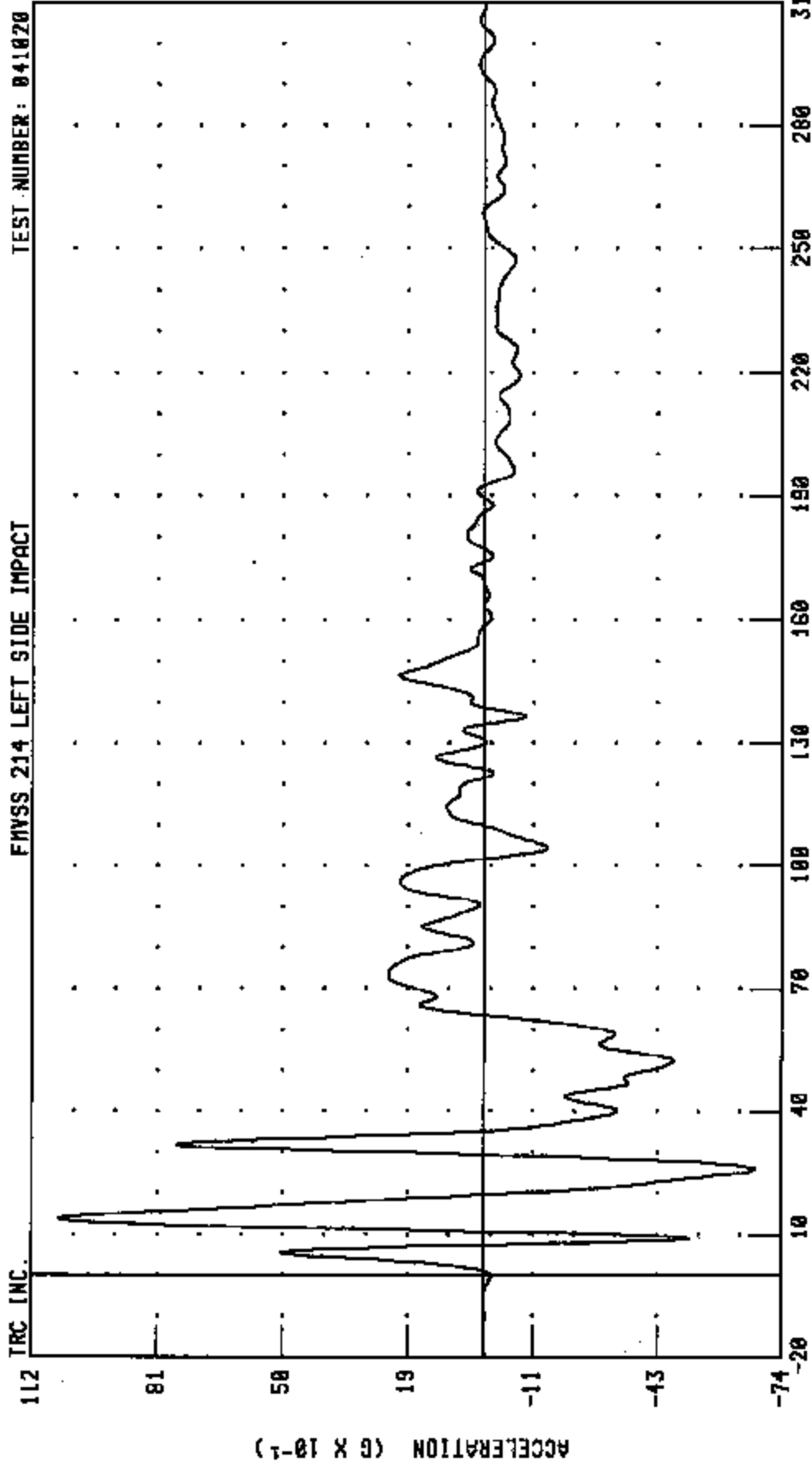
CHANNEL: RDKYV1 FILTER: CH. CLASS 180

PEAK DATA: 38.28 KM/H @ 69.04 MS, -0.05 KM/H @ 3.28 MS

55/28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2005 SCION TC
 REAR FLOORPAN ABOVE AXLE Z-AXIS ACCELERATION

TEST NUMBER: 041020

FMVSS 214 LEFT SIDE IMPACT



PEAK DATA: 10.53 G @ 13.92 MS; -6.75 G @ 25.92 MS

CHANNEL: ROKZG1 FILTER: CH. CLASS 60

ACCELERATION (G X 10⁻¹)

041020-1

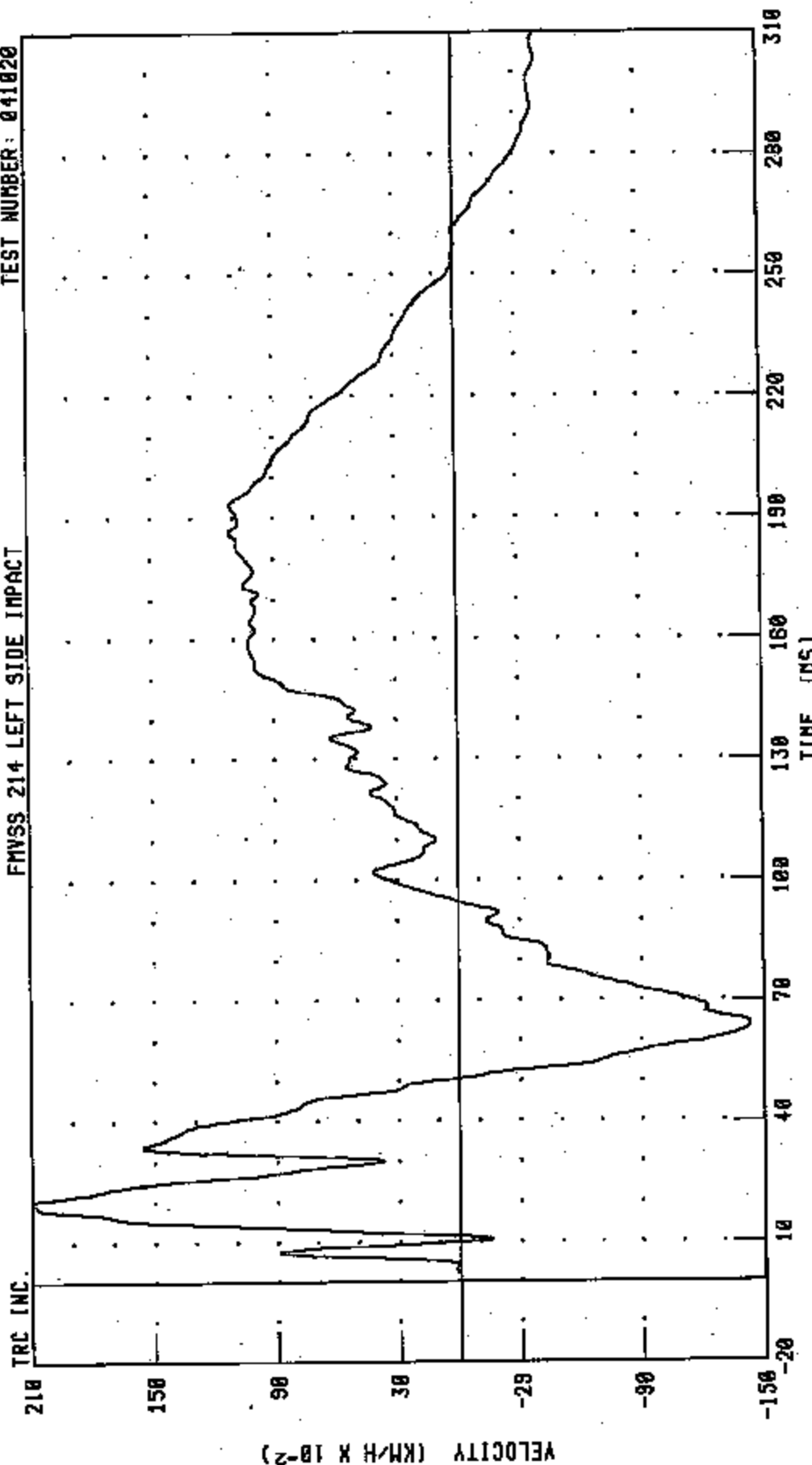
B-104

55/28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2005 SCION TC

REAR FLOORPAN ABOVE AXLE Z-AXIS VELOCITY

FMVSS 214 LEFT SIDE IMPACT

TEST NUMBER: 041020



CHANNEL: ROKZV1 FILTER: CH. CLASS 180

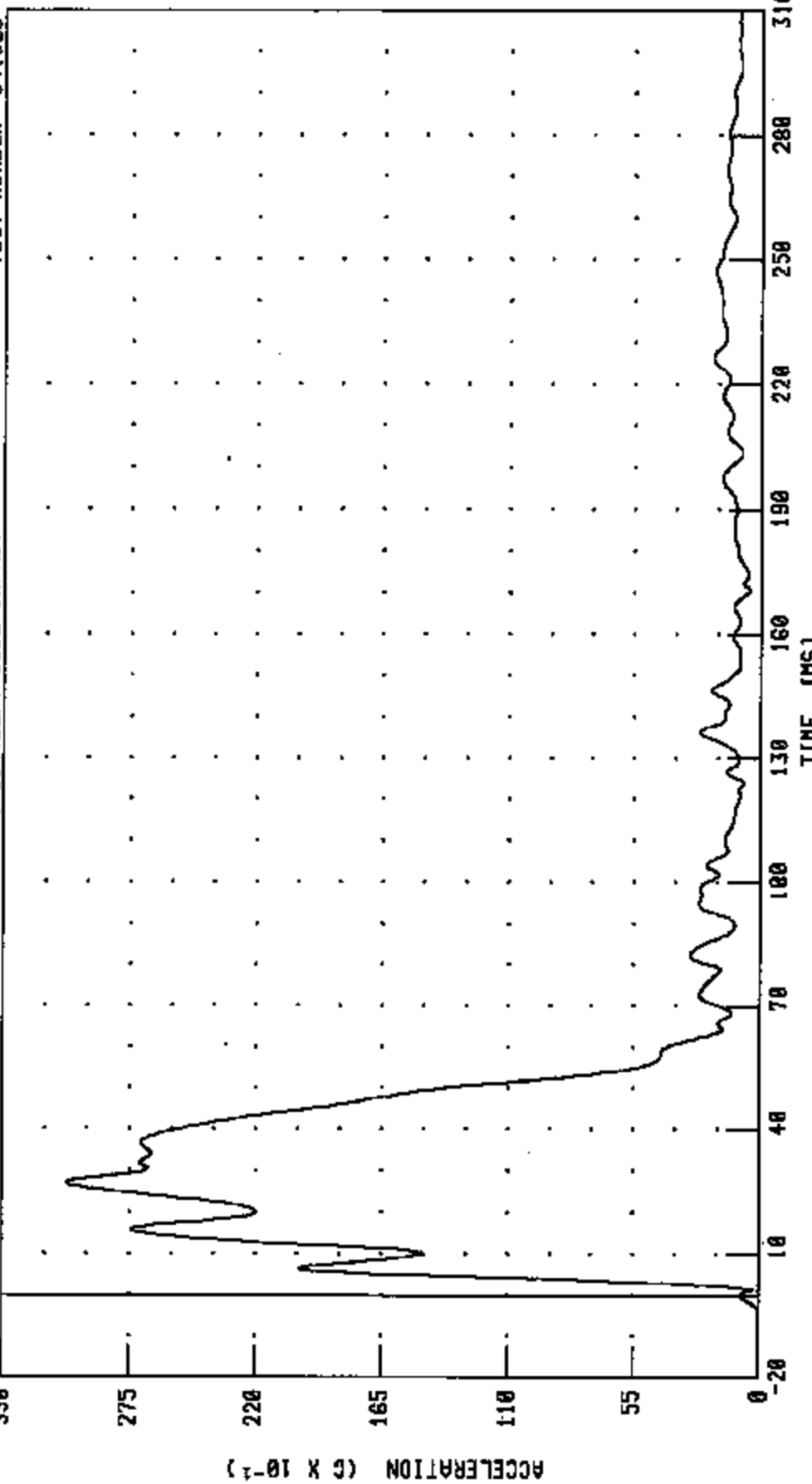
PEAK DATA: 2.12 KM/H @ 20.24 MS; -1.43 KM/H @ 63.68 MS

55/28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2005 SCION TC
REAR FLOORPAN ABOVE AXLE RESULTANT ACCELERATION

TEST NUMBER: 041020

FMVSS 214 LEFT SIDE IMPACT

TRC INC.



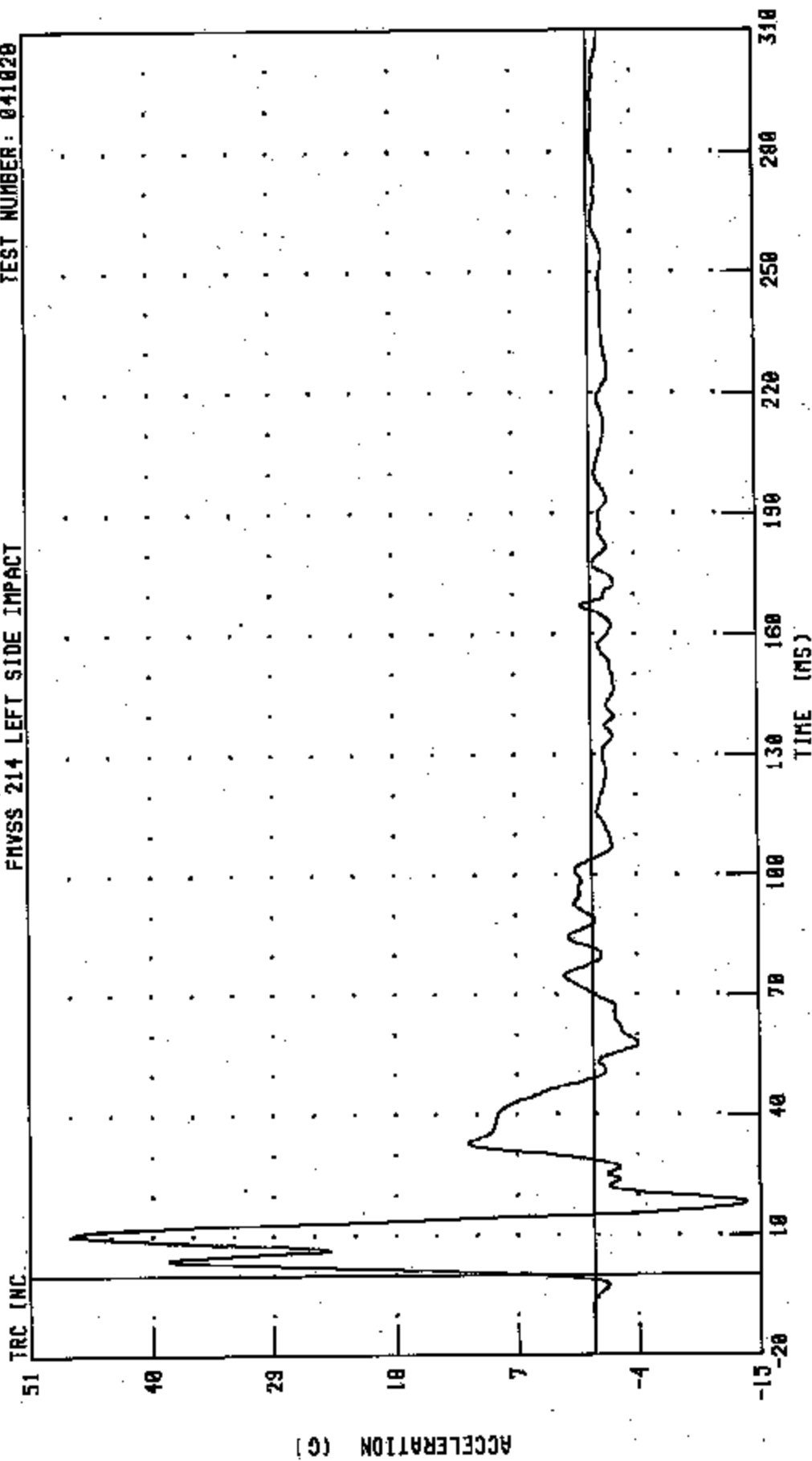
PEAK DATA: 30.21 G @ 27.04 MS; 0.01 G @ -18.48 MS

CHANNEL: RDKRC1 FILTER: CH. CLASS 60

55/20 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2005 SCION TC
LEFT SIDE SILL AT FRONT SEAT Y-AXIS ACCELERATION

TEST NUMBER: 041020

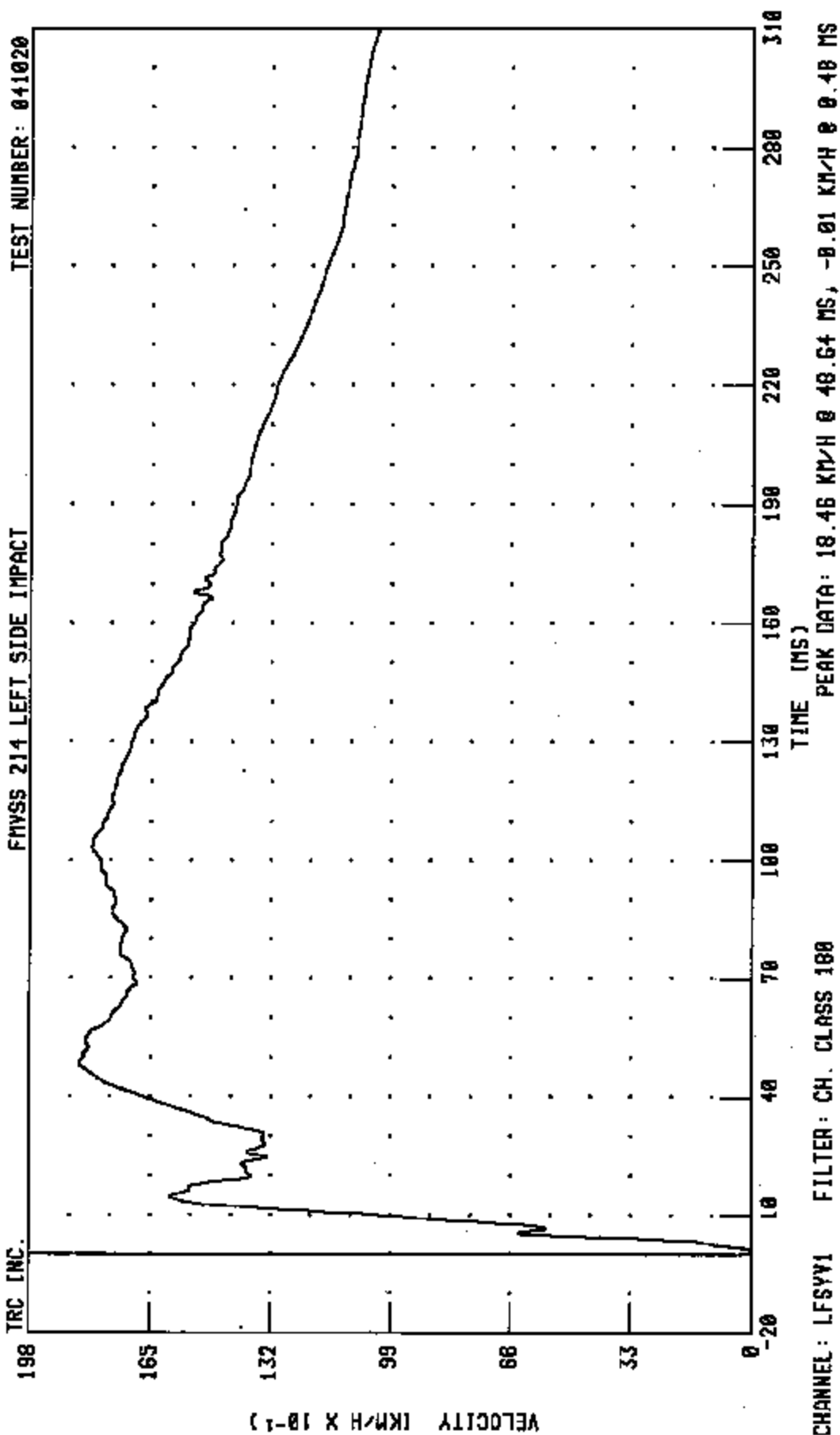
FMVSS 214 LEFT SIDE IMPACT



CHANNEL: LFSY01 FILTER: CH. CLASS 60

PEAK DATA: 47.21 G @ 10.48 MS, -13.82 G @ 18.24 MS

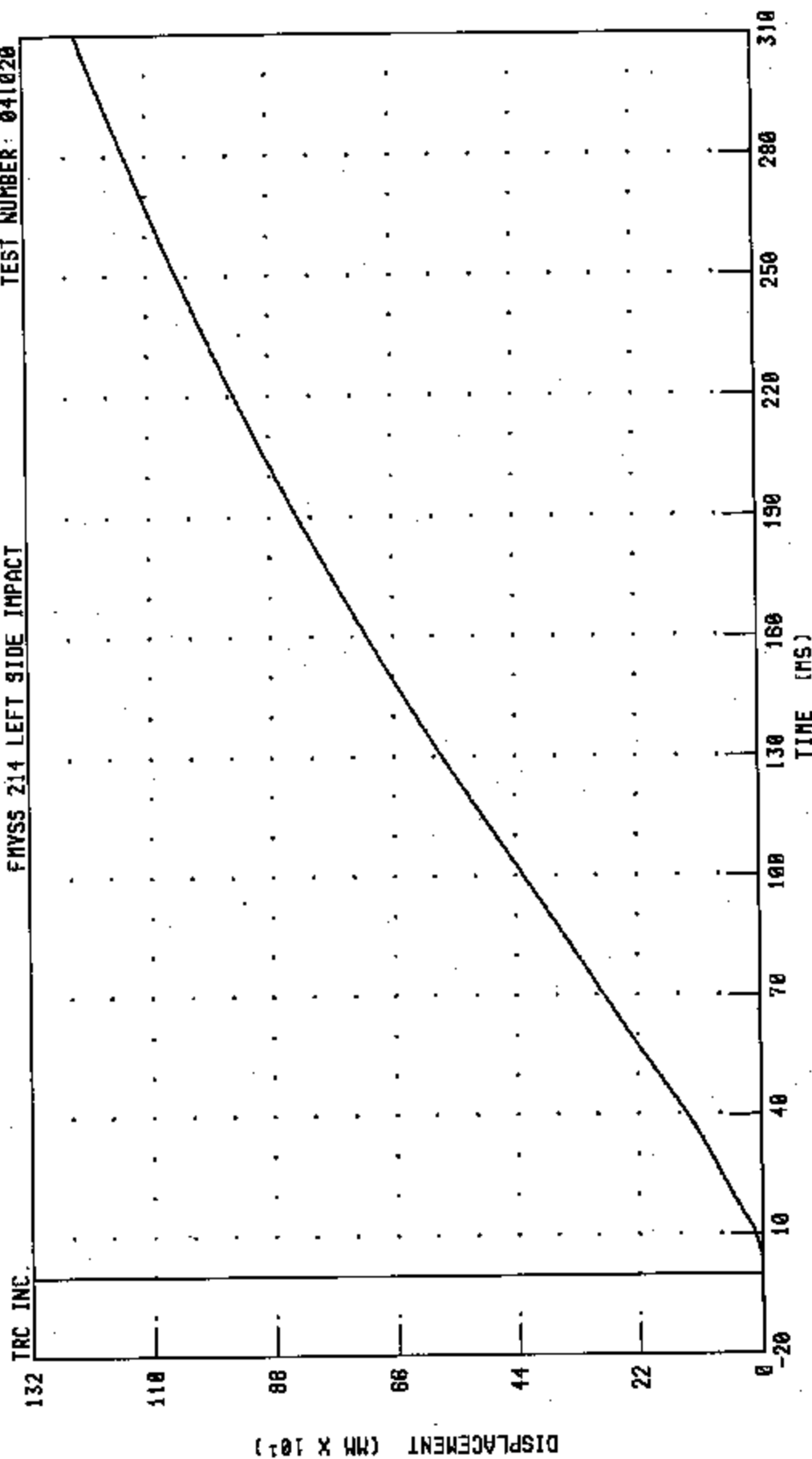
55/20 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2005 SCION TC
LEFT SIDE SILL AT FRONT SEAT Y-AXIS VELOCITY



55/28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2085 SCION TC
LEFT SIDE SILL AT FRONT SEAT Y-AXIS DISPLACEMENT

TEST NUMBER: 041020

FMVSS 214 LEFT SIDE IMPACT

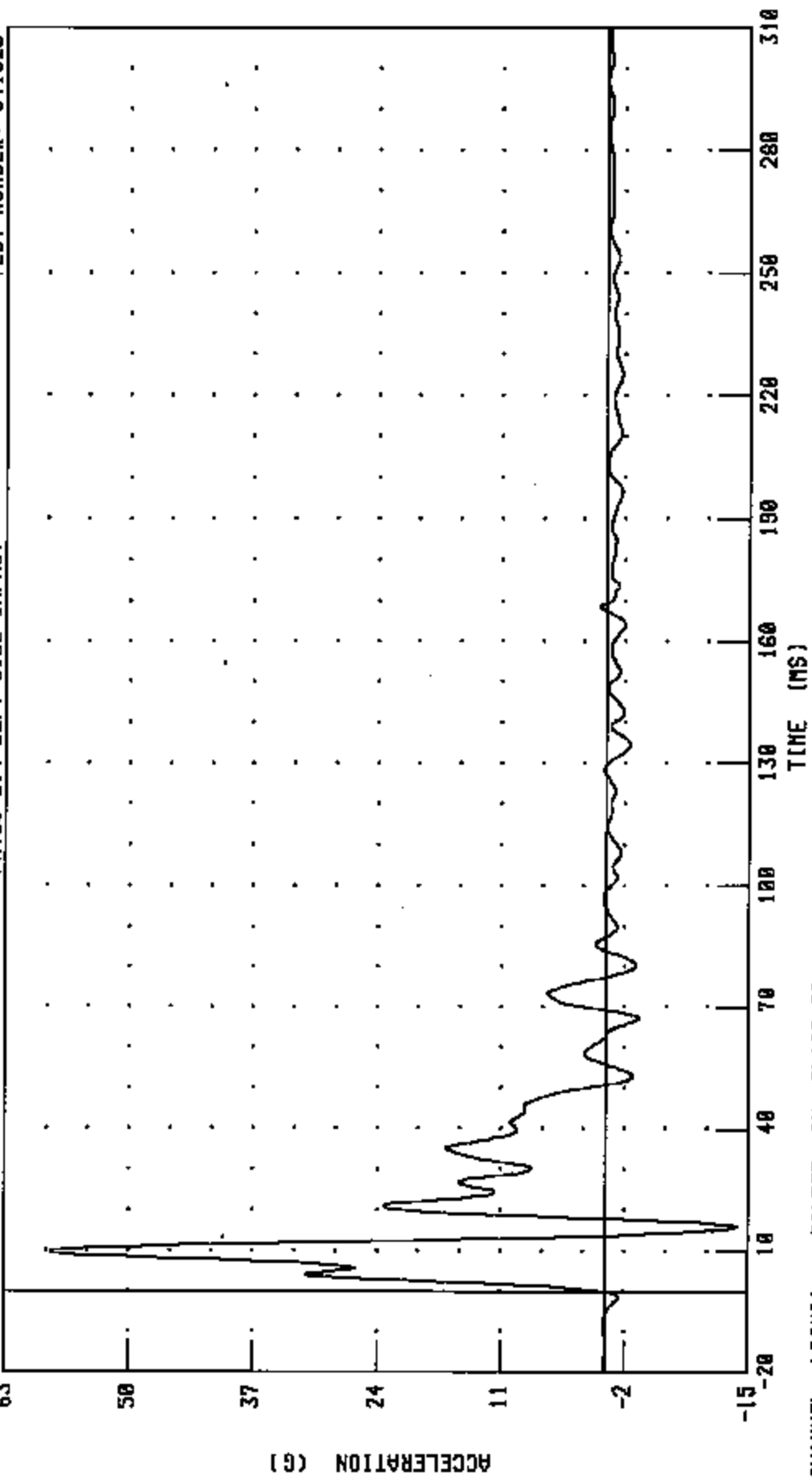


CHANNEL: LFSYD1 FILTER: CH. CLASS 180

PEAK DATA: 1227.28 MM @ 310.00 MS; 0.00 MM @ 0.00 MS

55/20 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2005 SCION TC
LEFT SIDE SILL AT REAR SEAT Y-AXIS ACCELERATION

TRC INC. FMVSS 214 LEFT SIDE IMPACT TEST NUMBER: 041020



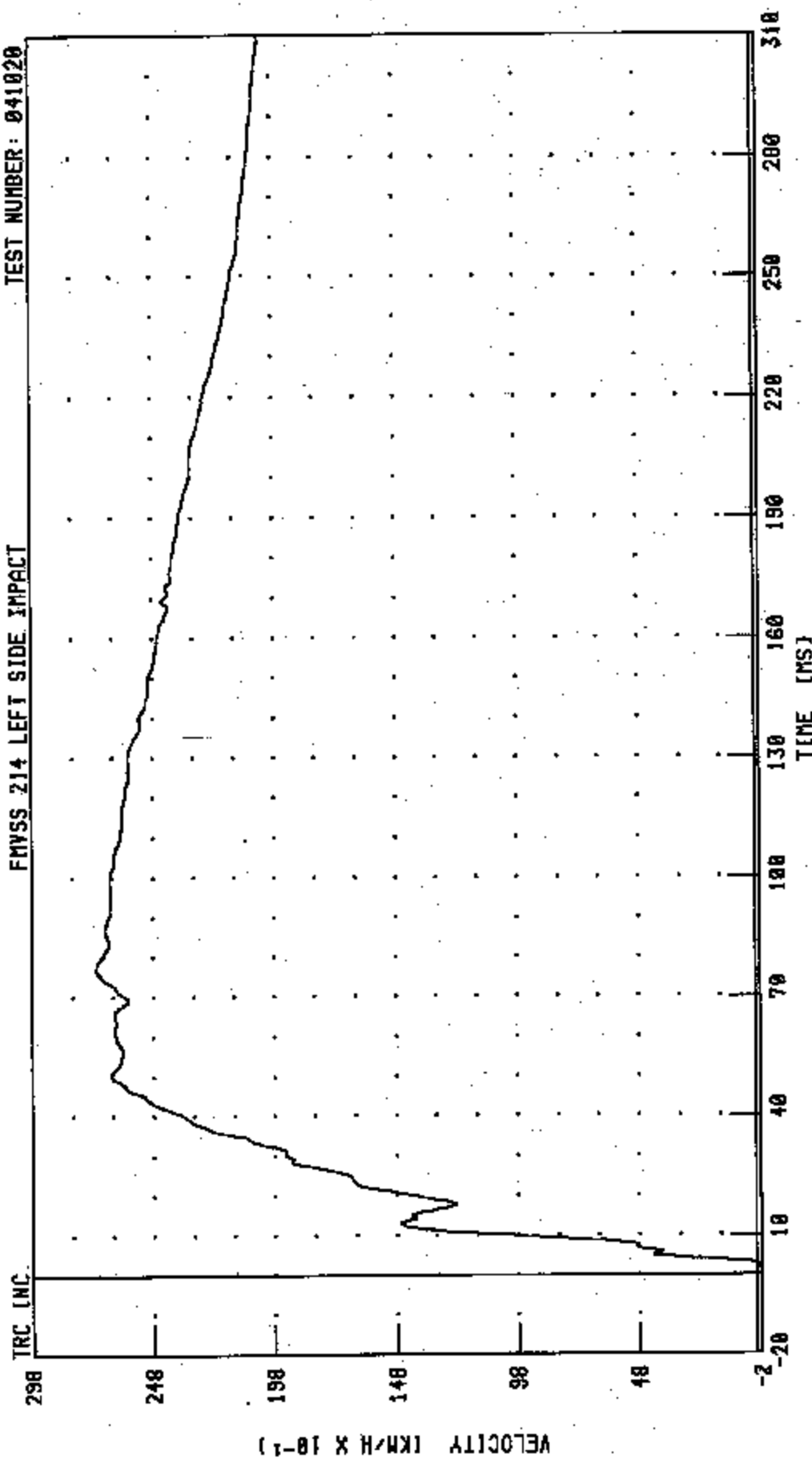
CHANNEL: LRSYG1 FILTER: CH. CLASS 60

PEAK DATA: 58.21 G @ 9.84 MS; -13.91 G @ 15.92 MS

55/28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2085 SCION TC
LEFT SIDE SILL AT REAR SEAT Y-AXIS VELOCITY

TEST NUMBER: 041020

FMVSS 214 LEFT SIDE IMPACT



CHANNEL: LRSYV1 FILTER: CH. CLASS 180

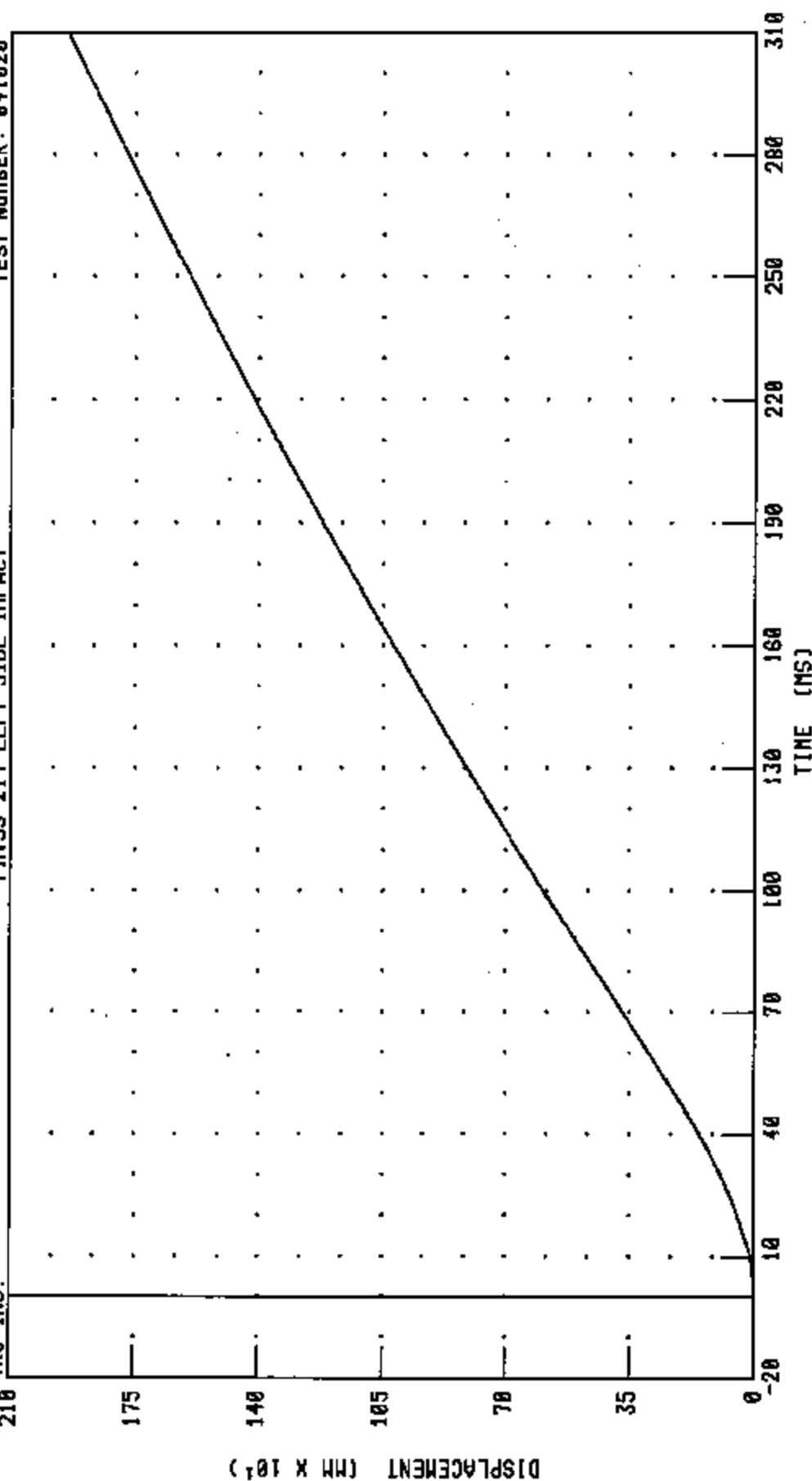
PEAK DATA: 27.17 KM/H @ 77.04 MS, -0.19 KM/H @ 2.32 MS

55/28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2005 SCION TC
LEFT SIDE SILL AT REAR SEAT Y-AXIS DISPLACEMENT

TRC INC.

FMVSS 214 LEFT SIDE IMPACT

TEST NUMBER: 041020



CHANNEL: LRSYD1 FILTER: CH. CLASS 180

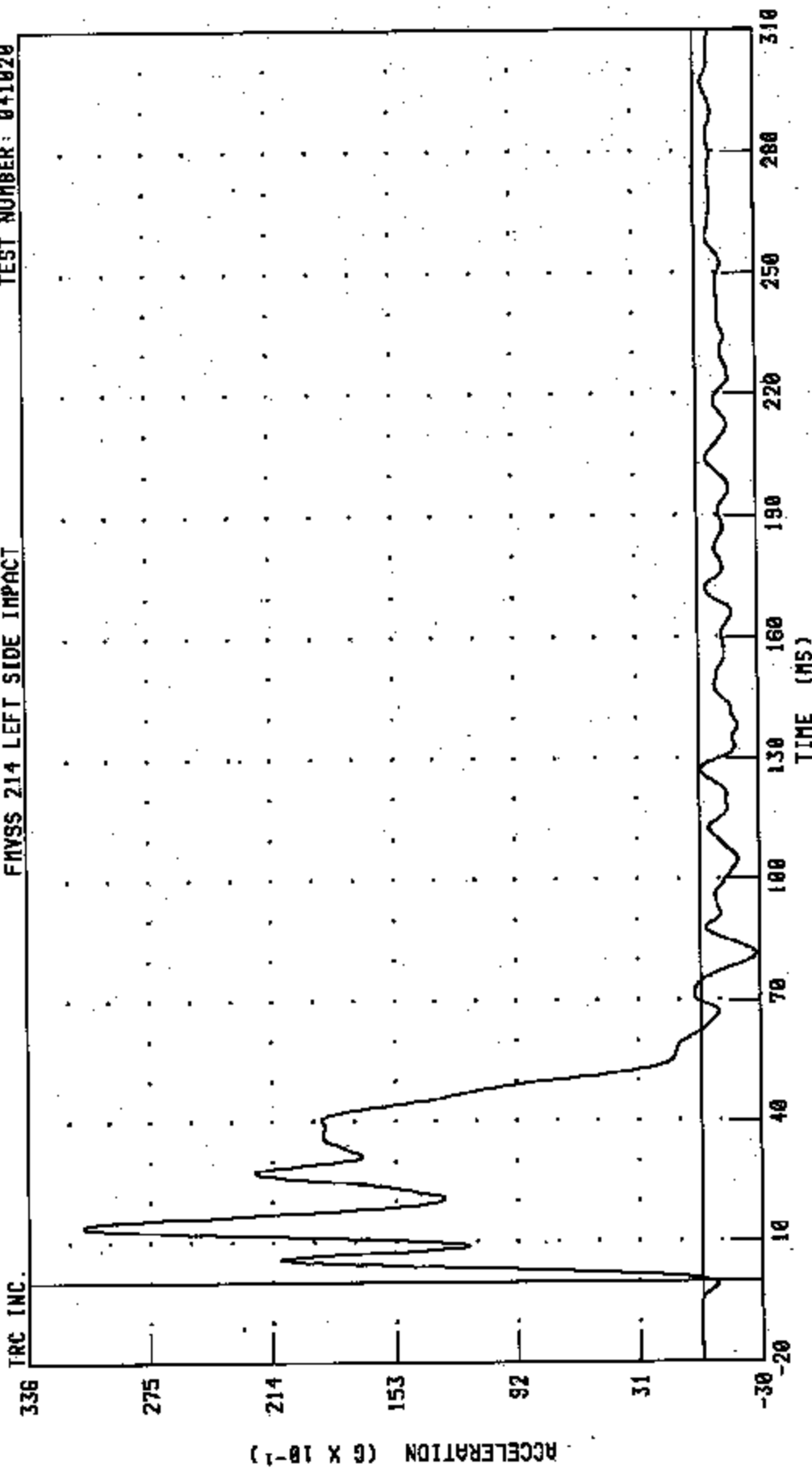
PEAK DATA: 1941.31 MM @ 310.00 MS, -0.06 MM @ 2.96 MS

55/28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2005 SCION TC
RIGHT REAR OCCUPANT COMPARTMENT Y-AXIS ACCELERATION

TEST NUMBER: 041020

FMVSS 214 LEFT SIDE IMPACT

TRC INC.



CHANNEL: RRTYCI FILTER: CH, CLASS 60

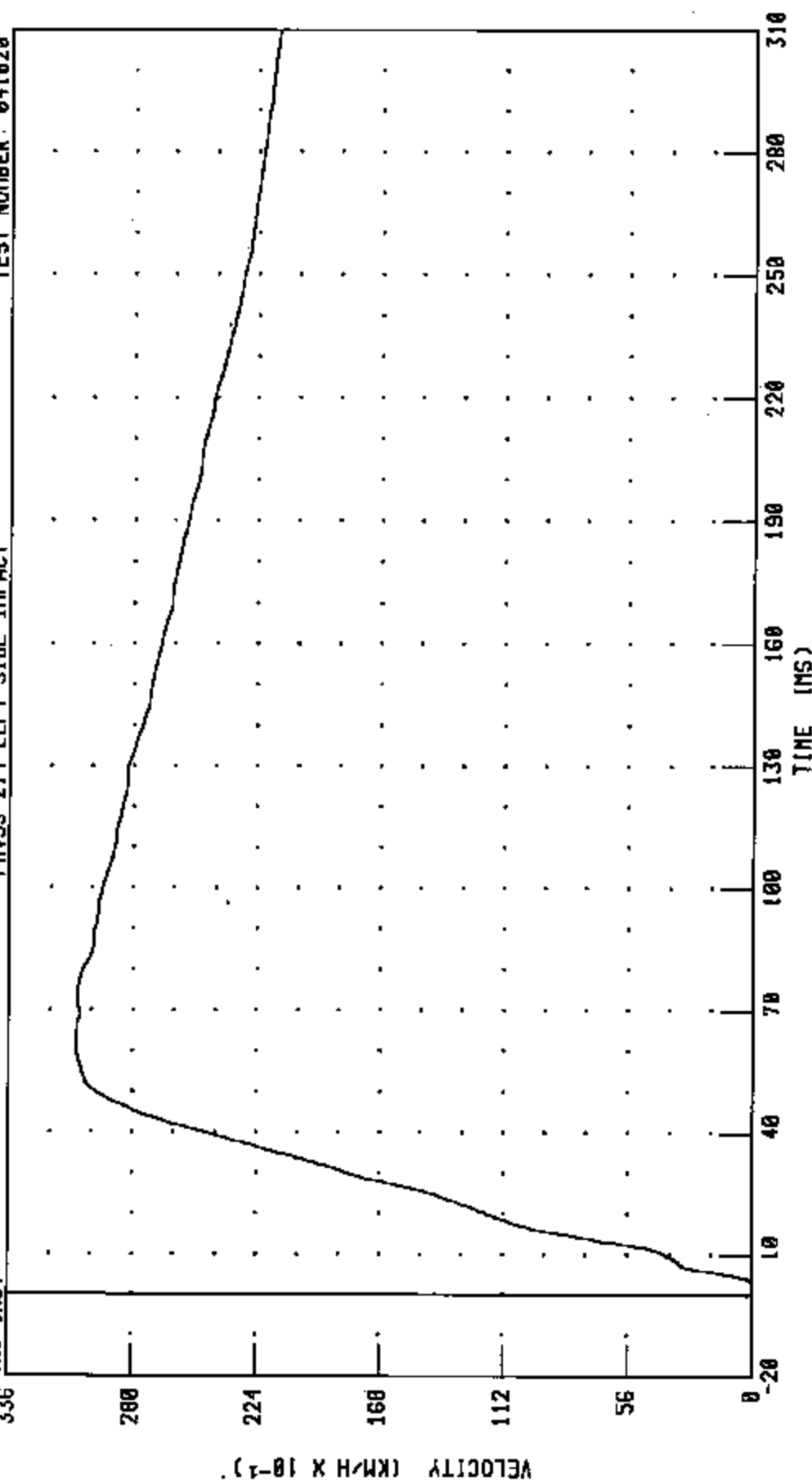
PEAK DATA: 30.90 G @ 13.92 MS; -2.80 G @ 81.44 MS

55/28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2005 SCION TC
RIGHT REAR OCCUPANT COMPARTMENT Y-AXIS VELOCITY

TRC INC.

FMVSS 214 LEFT SIDE IMPACT

TEST NUMBER: 041020



CHANNEL: RRTYV1 FILTER: CH. CLASS 100

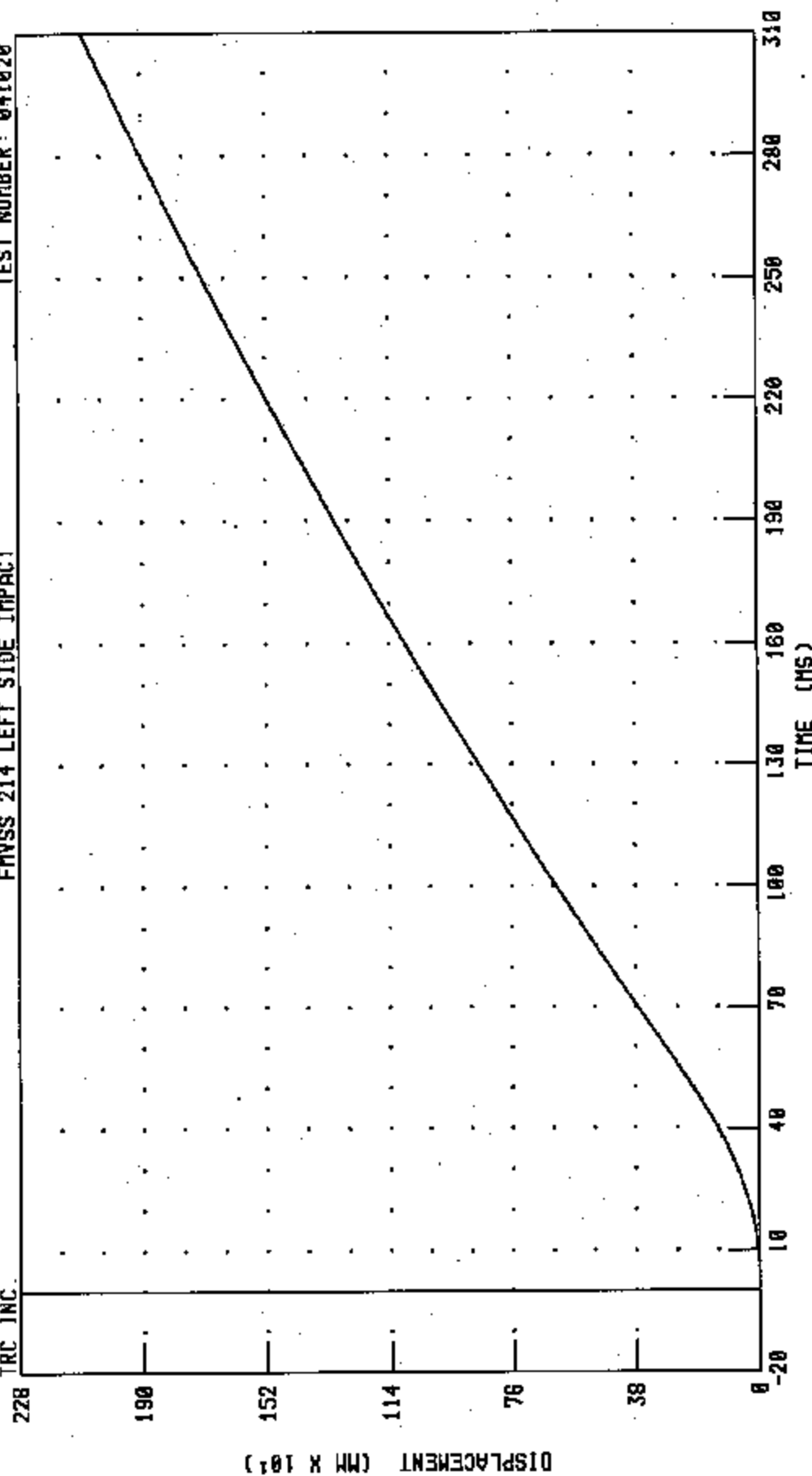
PEAK DATA: 30.59 KM/H @ 62.16 MS, -0.01 KM/H @ 2.48 MS

55/28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2005 SCION TC
RIGHT REAR OCCUPANT COMPARTMENT Y-AXIS DISPLACEMENT

TEST NUMBER: 041020

FMVSS 214 LEFT SIDE IMPACT

TRC INC.



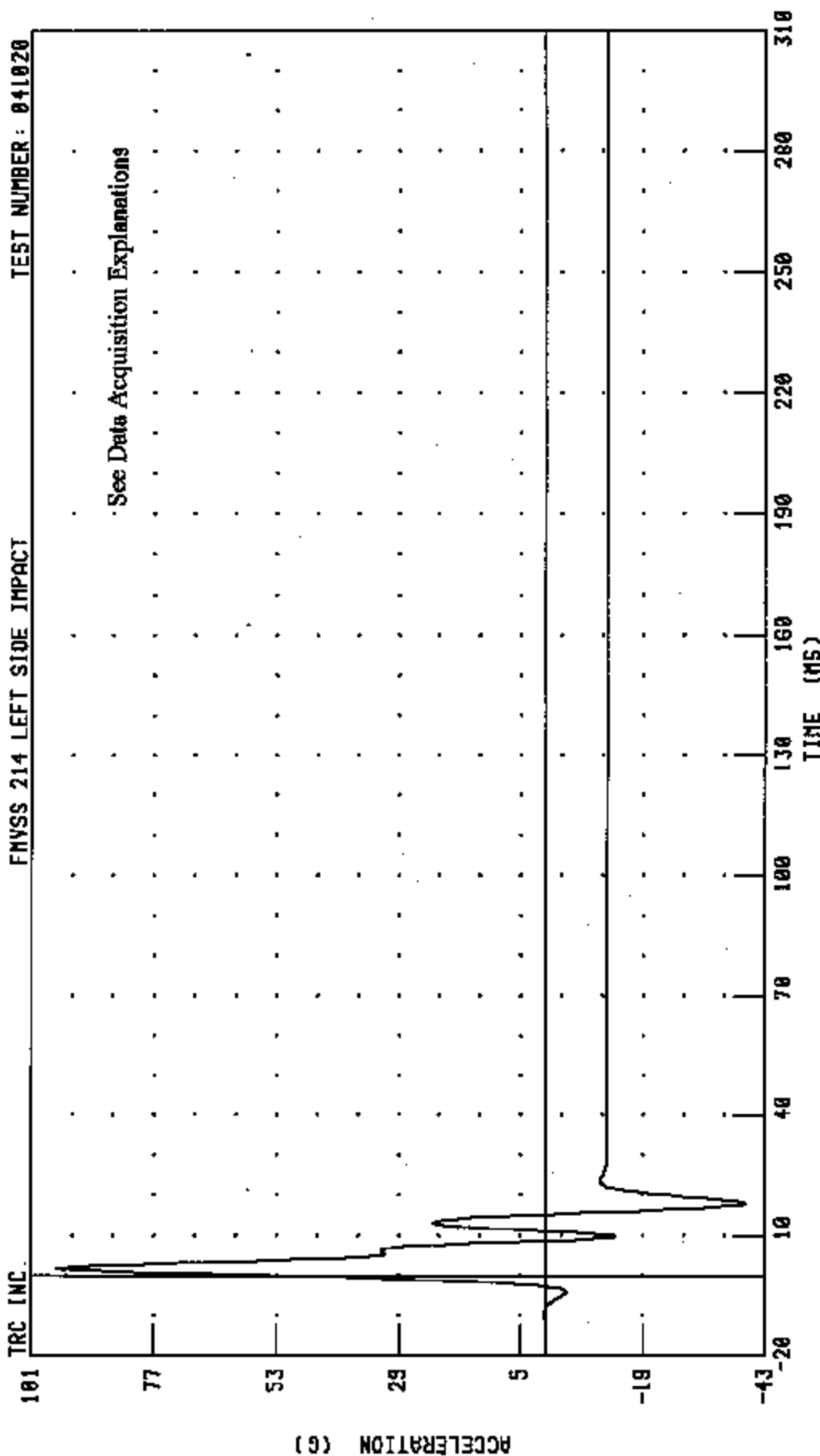
CHANNEL: RRTYD1 FILTER: CH. CLASS 100

PEAK DATA: 2083.08 MM @ 310.00 MS; 0.00 MM @ 2.88 MS

55/28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2005 SCION TC
LEFT LOWER A-POST Y-AXIS ACCELERATION

TEST NUMBER: 041020

FNVS 214 LEFT SIDE IMPACT



CHANNEL: LLAYC1 FILTER: CH. CLASS 60

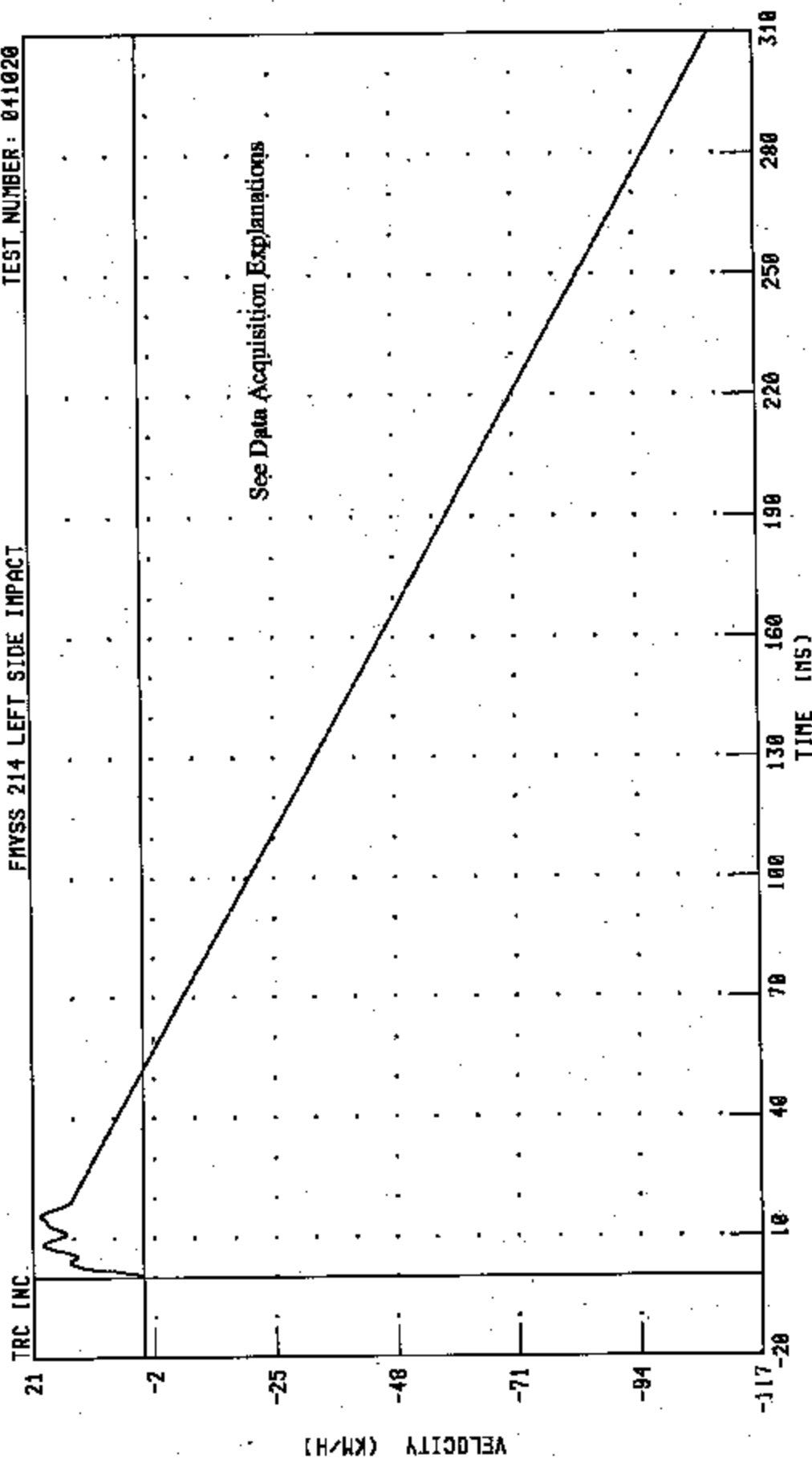
PEAK DATA: 95.90 G @ 1.84 MS, -39.14 G @ 10.00 MS

55/28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2005 SCION .TC

LEFT LOWER A-POST Y-AXIS VELOCITY

FWVSS 214 LEFT SIDE IMPACT

TEST NUMBER: 041020



CHANNEL: LLAYV1 FILTER: CH. CLASS 180

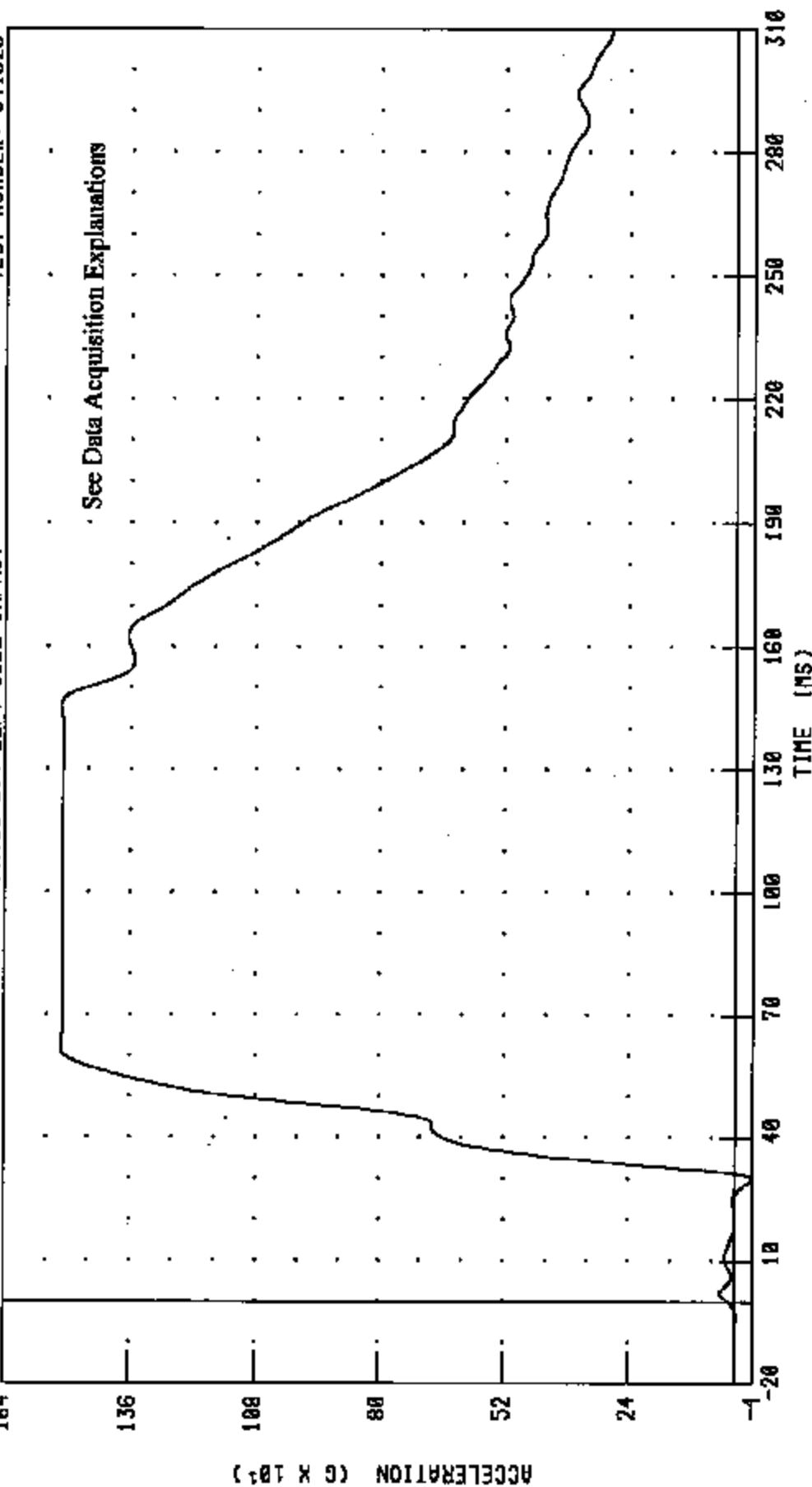
PEAK DATA: 19.46 KM/H @ 15.76 MS; -100.63 KM/H @ 310.00 MS

55/20 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2005 SCION TC
LEFT MIDDLE A-POST Y-AXIS ACCELERATION

TEST NUMBER: 041020

FMVSS 214 LEFT SIDE IMPACT

TRC INC.



CHANNEL: LMAYG1 FILTER: CH. CLASS 60

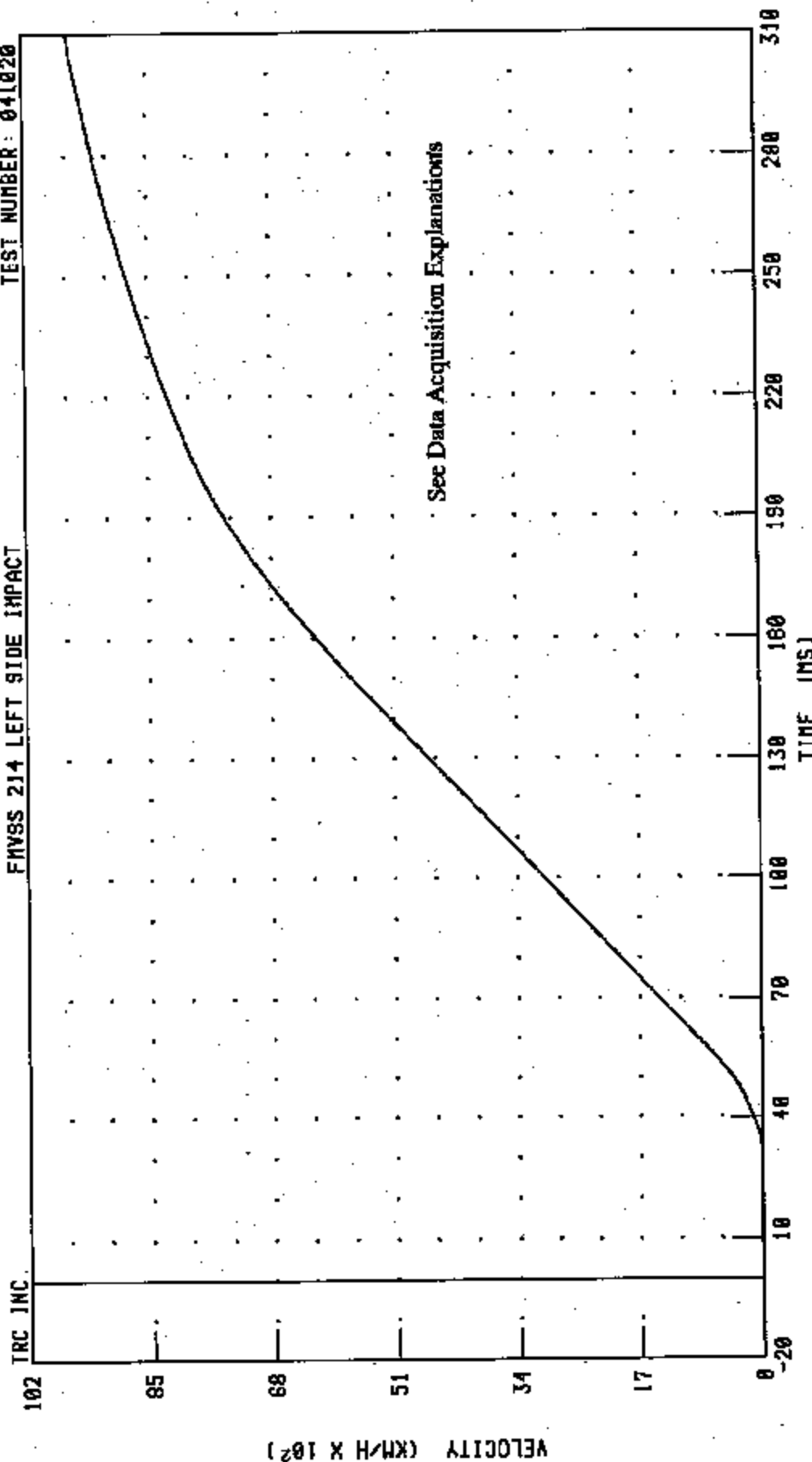
PEAK DATA: 1513.92 G @ 145.60 MS; -36.65 G @ 30.00 MS

55/28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2005 SCION TC

LEFT MIDDLE A-POST Y-AXIS VELOCITY

FMVSS 214 LEFT SIDE IMPACT

TEST NUMBER: 041020



CHANNEL: LMAYV1 FILTER: CH. CLASS 180

PEAK DATA: 9596.02 KM/H @ 310.00 MS, -0.03 KM/H @ 0.40 MS

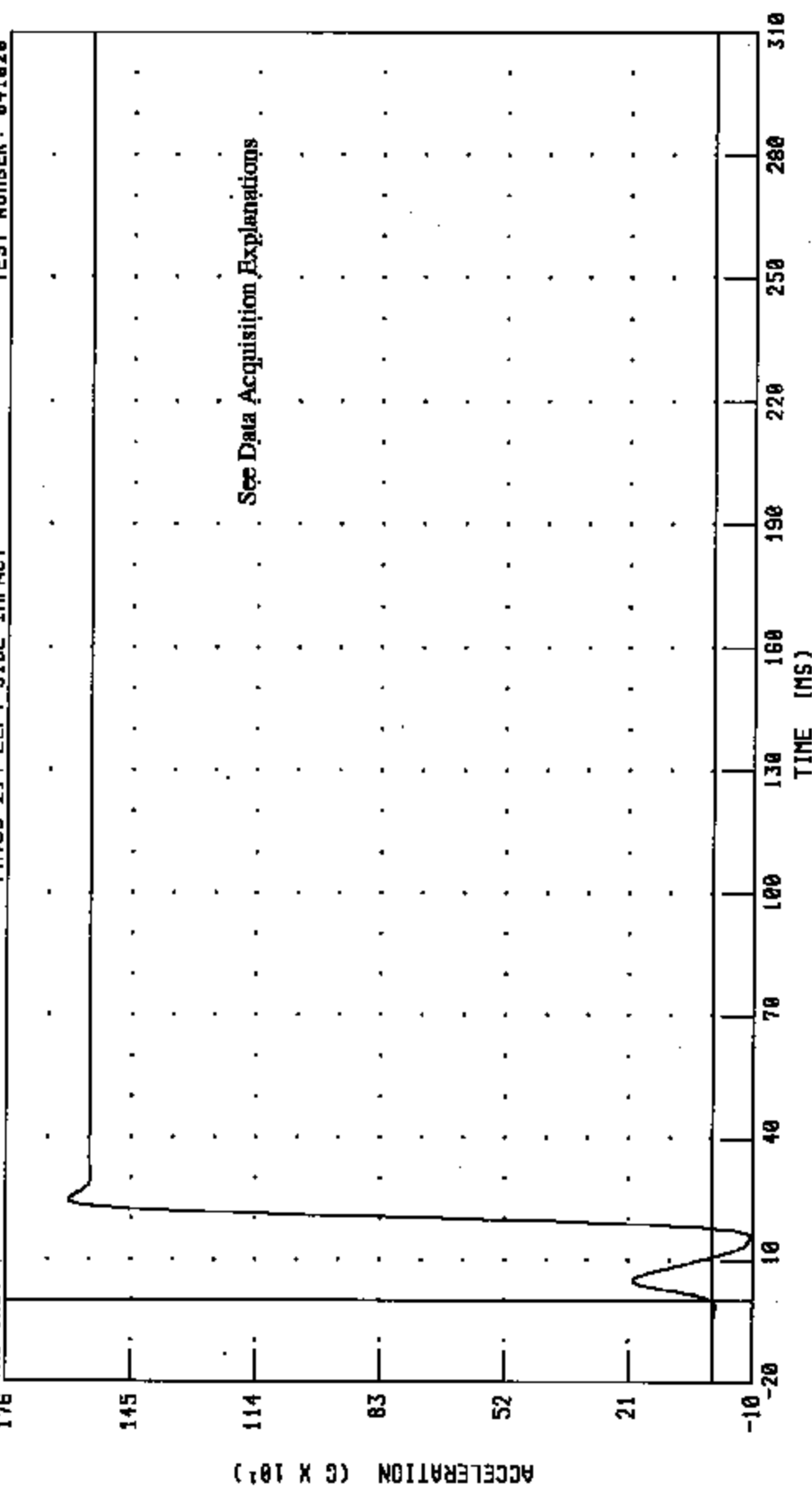
55/20 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2005 SCION TC

LEFT LOWER B-POST Y-AXIS ACCELERATION

TRC INC.

FMVSS 214 LEFT SIDE IMPACT

TEST NUMBER: 041020



CHANNEL: LLBYG1 FILTER: CH. CLASS 60

PEAK DATA: 1605.15 G @ 24.64 MS, -96.96 G @ 15.68 MS

55/20 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2005 SECTION TC

LEFT LOWER B-POST Y-AXIS VELOCITY

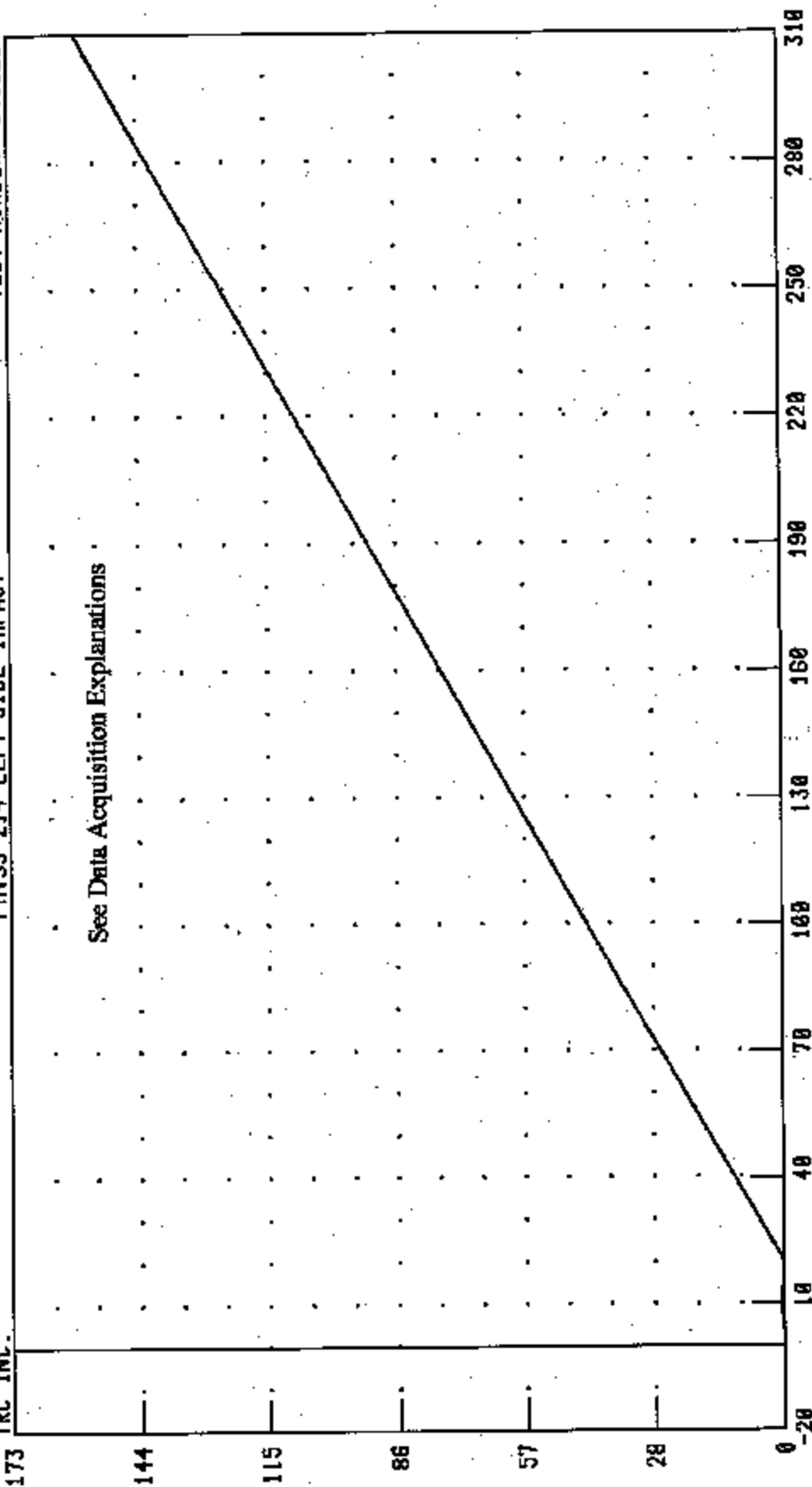
FMVSS 214 LEFT SIDE IMPACT

TEST NUMBER: 041020

TRC INC.

See Data Acquisition Explanations

VELOCITY (KM/H X 10²)

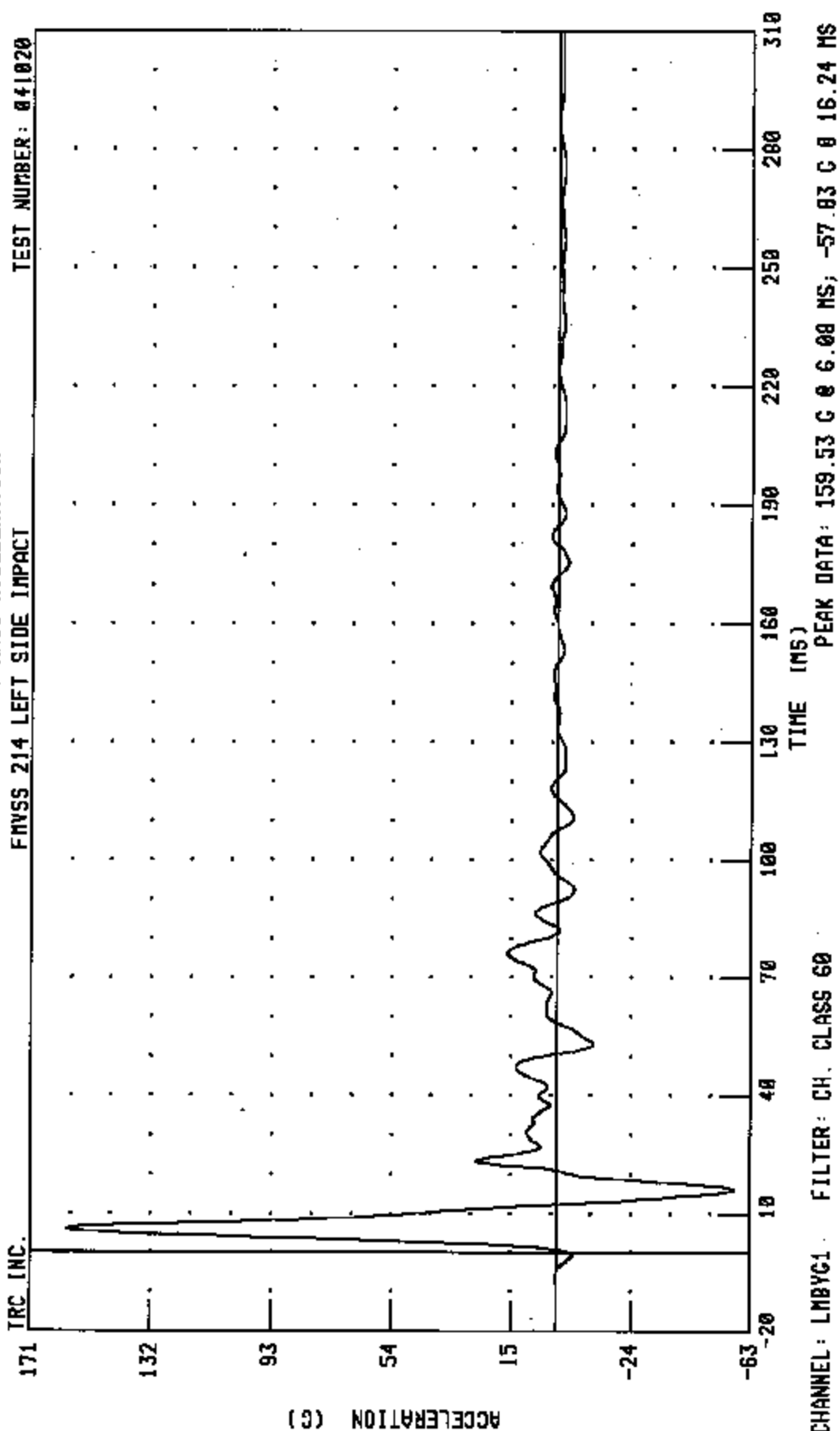


TIME (MS)

PEAK DATA: 15900.57 KM/H @ 310.00 MS; -0.25 KM/H @ 1.76 MS

CHANNEL: LLBYV1 FILTER: CH. CLASS 180

55/28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2005 SCION TC
LEFT MIDDLE B-POST Y-AXIS ACCELERATION

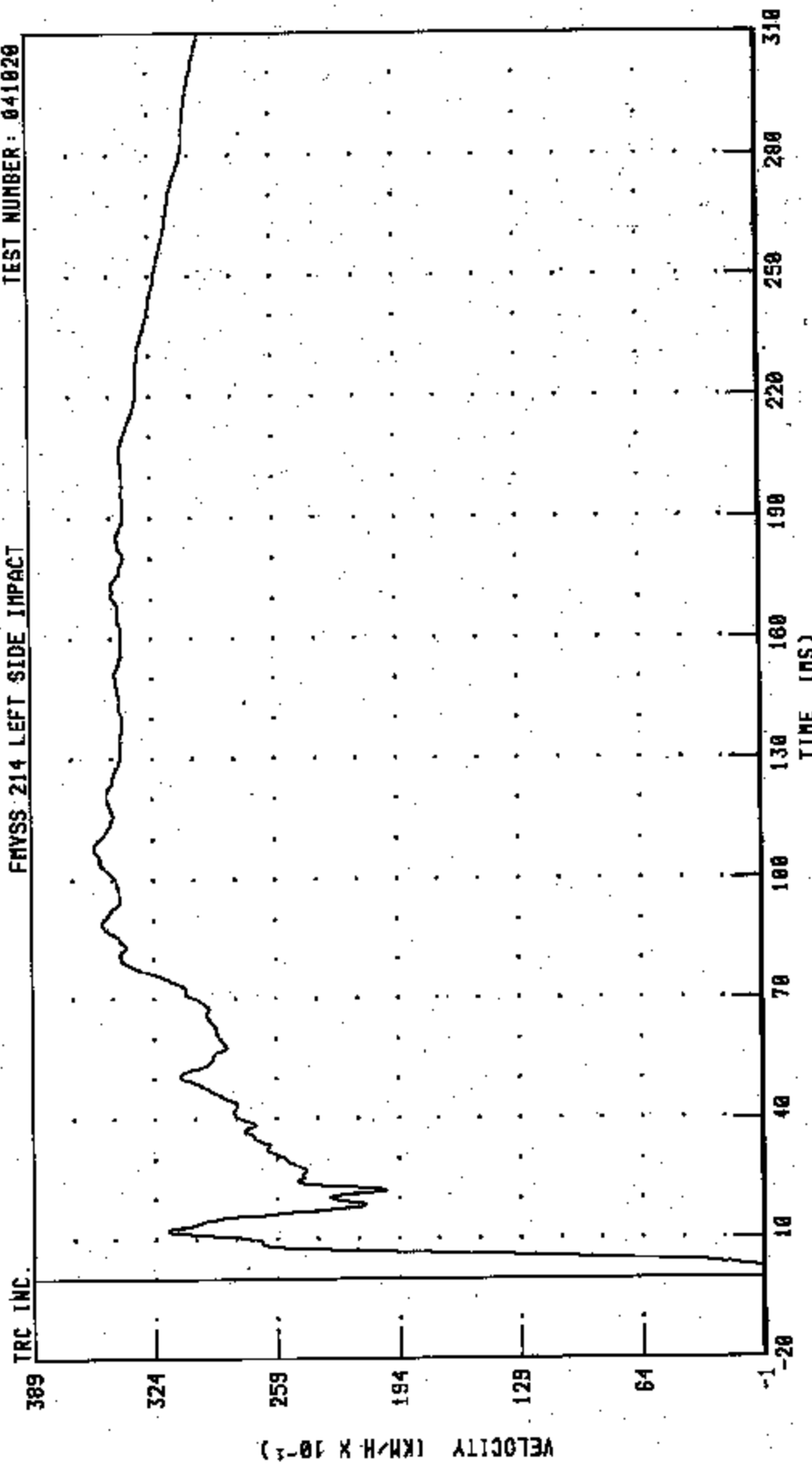


55/28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2005 SCION TC

LEFT MIDDLE B-POST Y-AXIS VELOCITY

FMVSS 214 LEFT SIDE IMPACT

TEST NUMBER: 041020



CHANNEL: LNBVVI FILTER: CH. CLASS 180

PEAK DATA: 35.57 KM/H @ 100.00 MS; -0.11 KM/H @ 2.16 MS

55/28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2005 SCION TC

LEFT FRONT SEAT TRACK Y-AXIS ACCELERATION

TEST NUMBER: 041020

FMVSS 214 LEFT SIDE IMPACT

TRC INC.

339

279

219

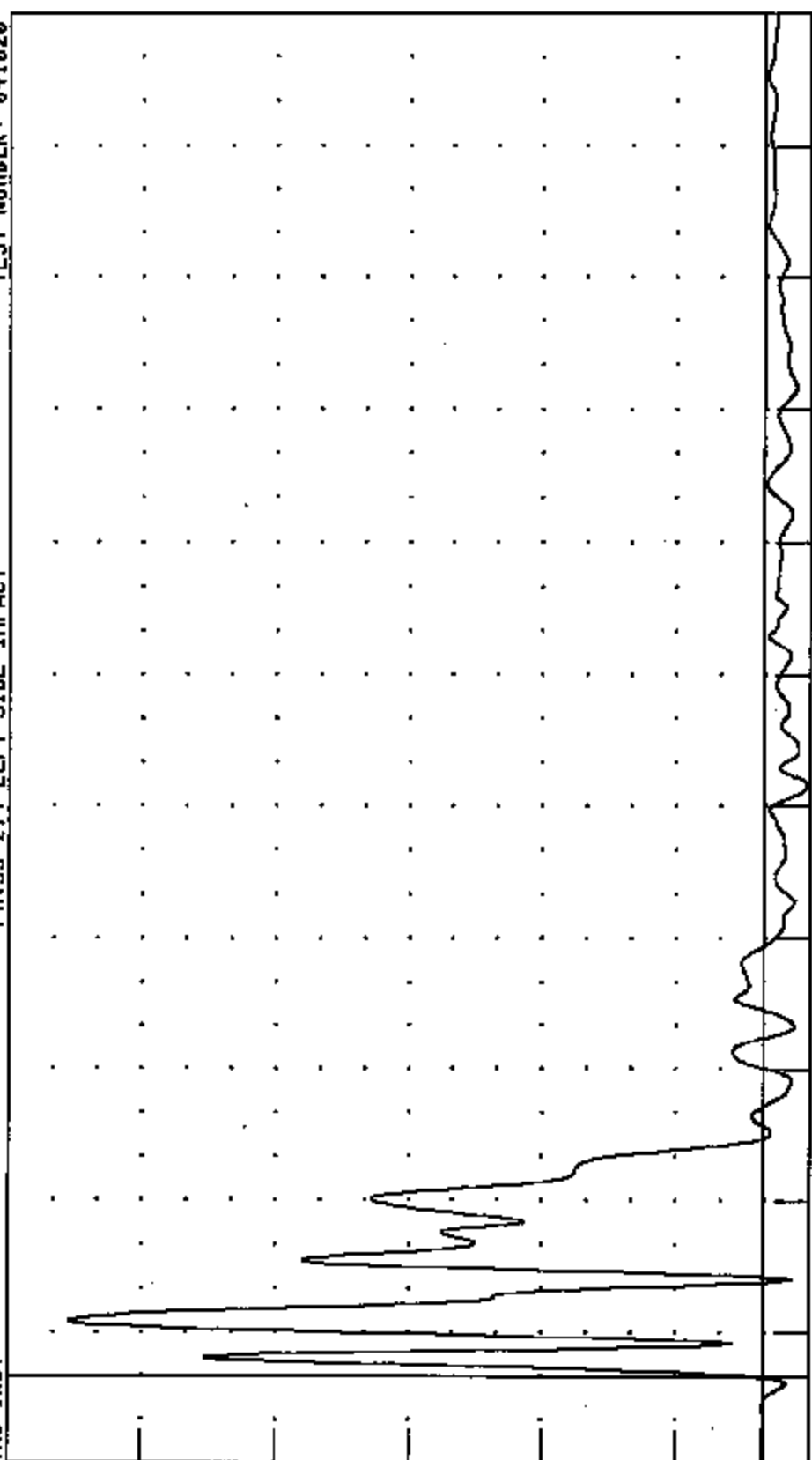
159

99

39

-21

ACCELERATION (G X 10⁻¹)



041020-1

CHANNEL: LFTYGL FILTER: CH. CLASS 60

TIME (MS)

PEAK DATA: 31.18 G @ 12.56 MS; -1.98 G @ 134.64 MS

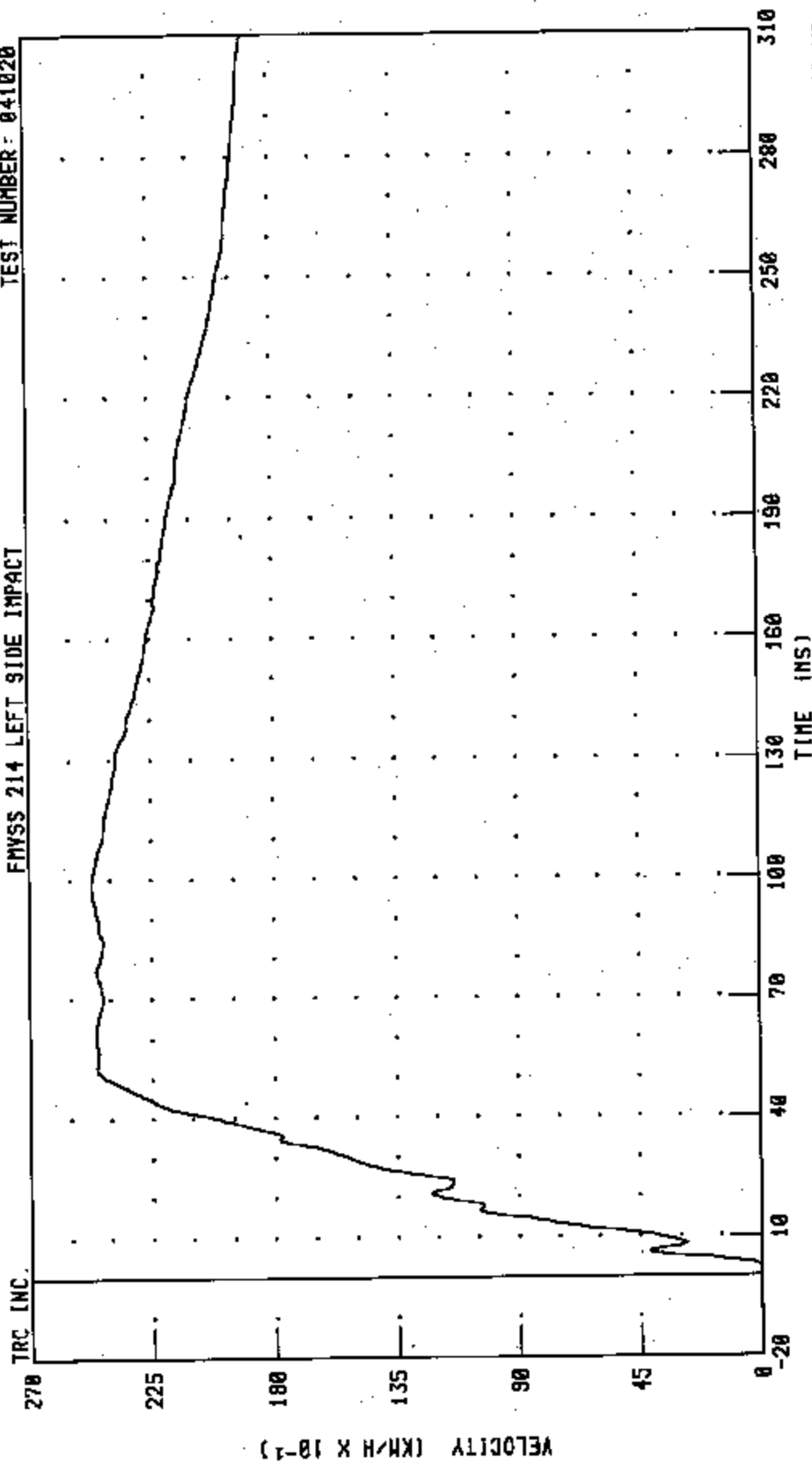
B-124

55/28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2885 SCION TC

LEFT FRONT SEAT TRACK Y-AXIS VELOCITY

FMVSS 214 LEFT SIDE IMPACT

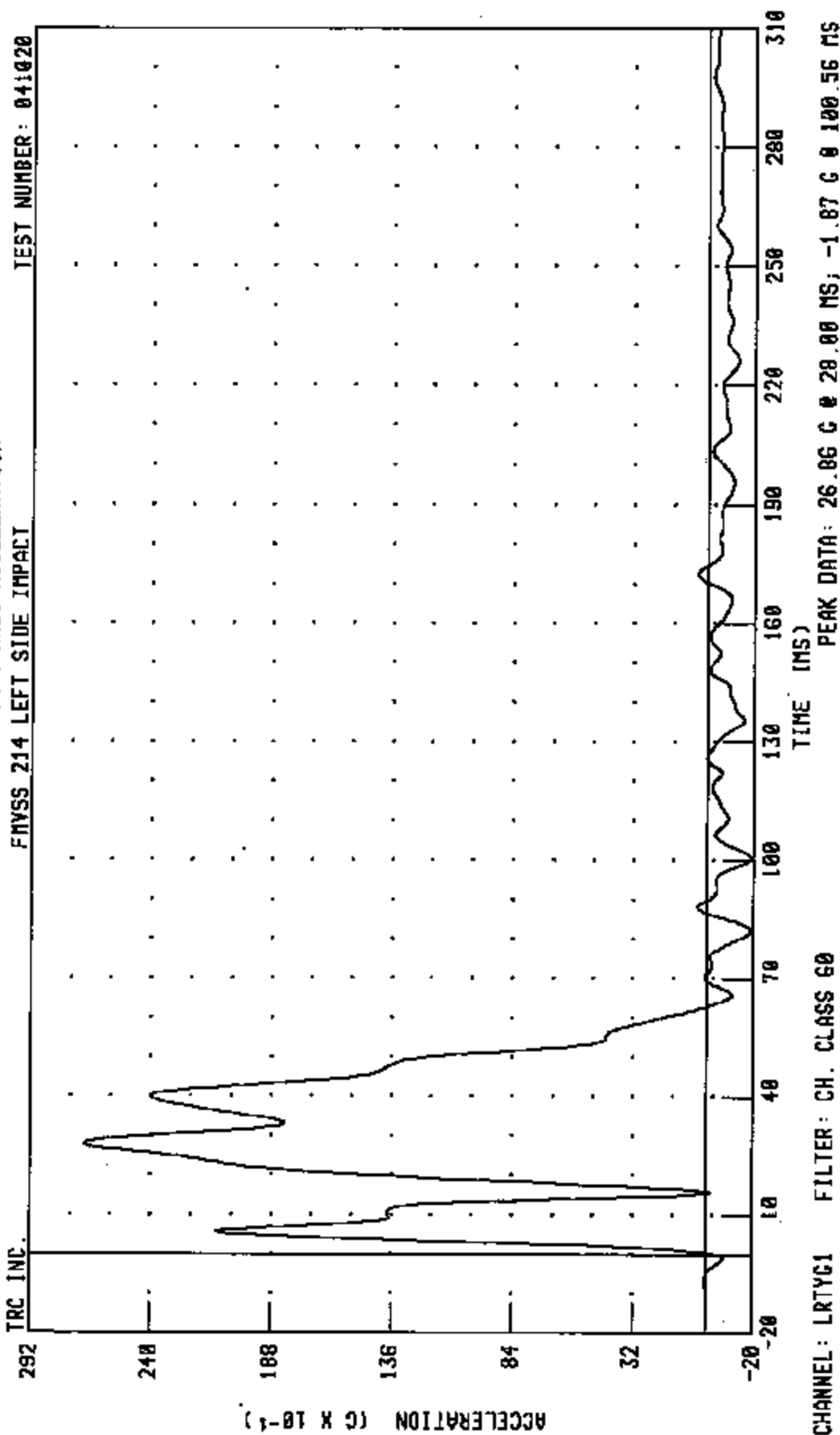
TEST NUMBER: 041020



CHANNEL: LFTVY1 FILTER: CH. CLASS 100

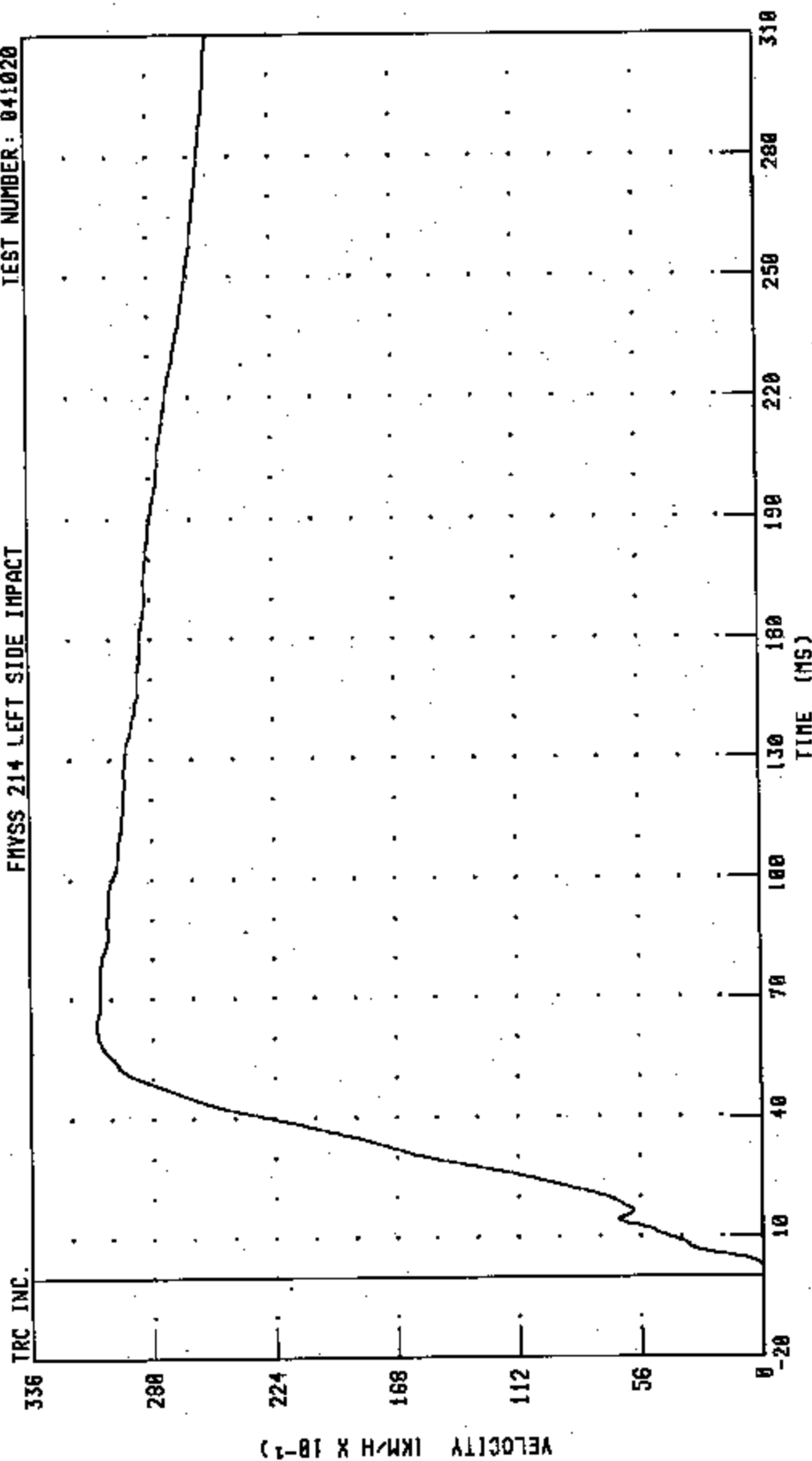
PEAK DATA: 24.70 KM/H @ 97.52 MS, -0.03 KM/H @ 2.00 MS

55/20 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2005 SCION TC
LEFT REAR SEAT TRACK Y-AXIS ACCELERATION



55/20 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2005 SECTION TC
LEFT REAR SEAT TRACK Y-AXIS VELOCITY

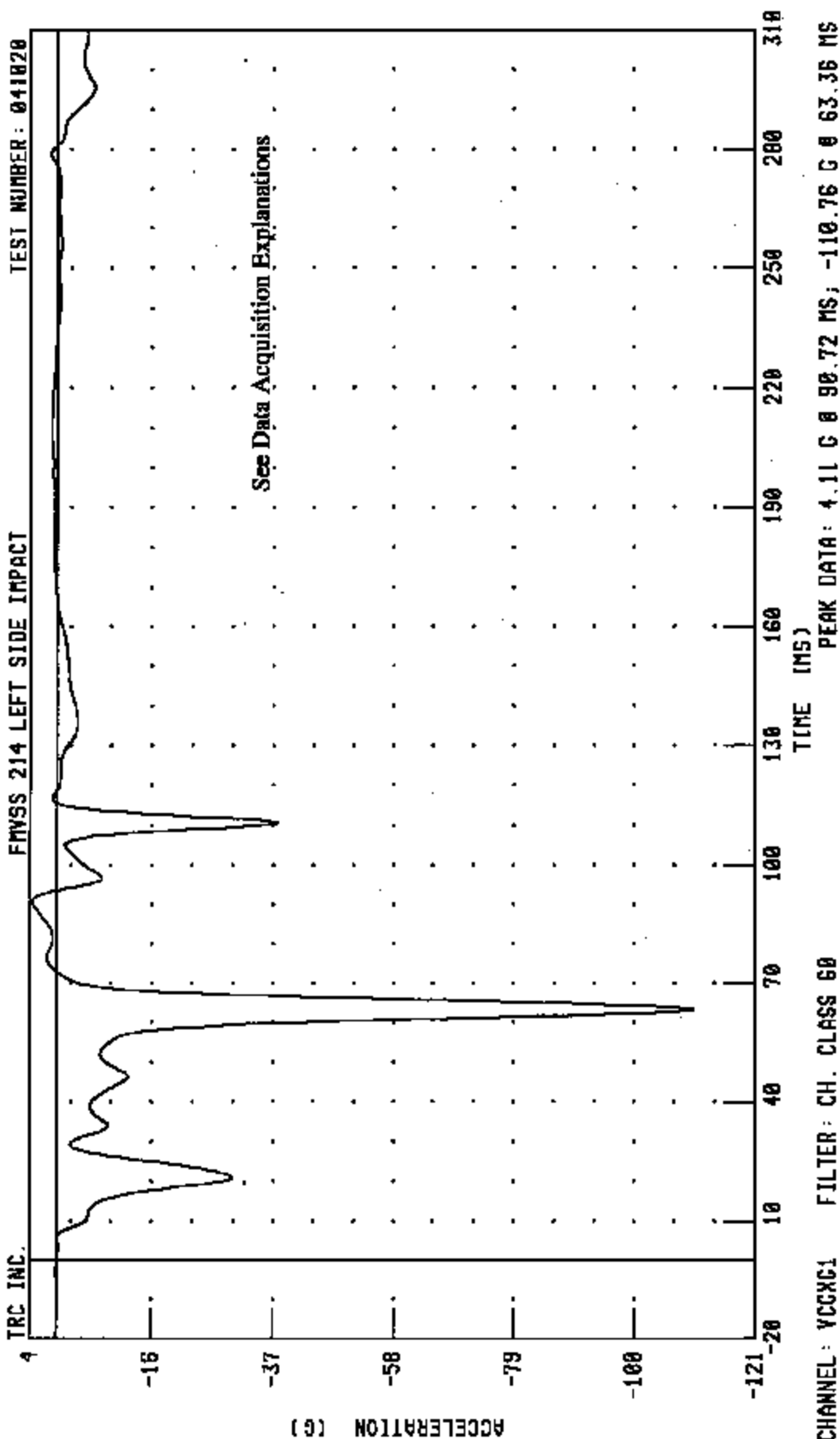
TEST NUMBER: 041020
FMVSS 214 LEFT SIDE IMPACT



CHANNEL: LRTV1 FILTER: CH. CLASS 180

PEAK DATA: 30.57 KM/H @ 64.16 MS, -0.01 KM/H @ 1.76 MS

55/20 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2005 SCION TC
VEHICLE CENTER OF GRAVITY X-AXIS ACCELERATION

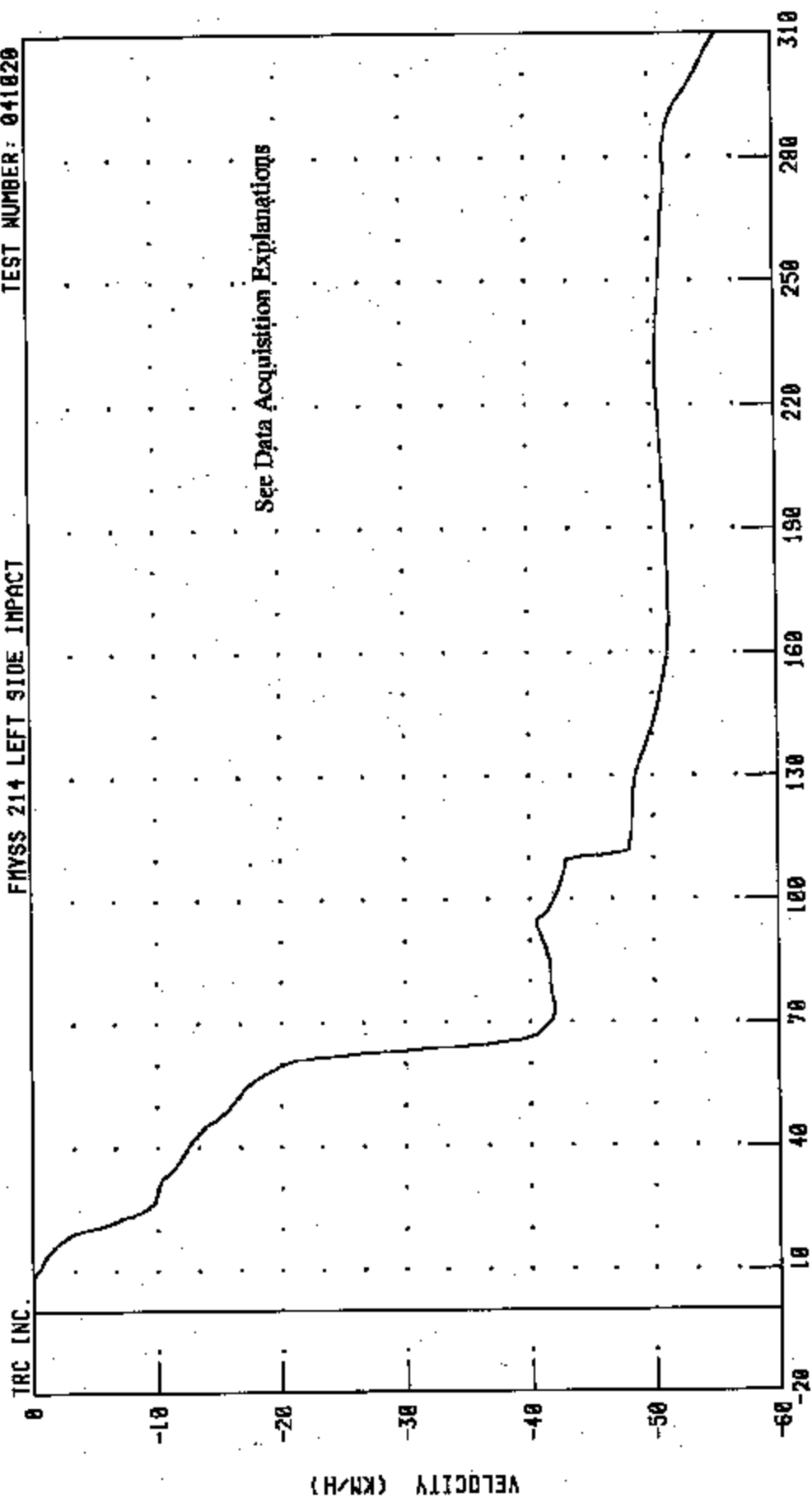


55/28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2005 SCION TC

VEHICLE CENTER OF GRAVITY X-AXIS VELOCITY

TEST NUMBER: 041020

FMVSS 214 LEFT SIDE IMPACT



CHANNEL: VCCXV1 FILTER: CH. CLASS 180

PEAK DATA: 0.00 KM/H @ 0.00 MS; -55.50 KM/H @ 310.00 MS

55/28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2005 SCION TC
VEHICLE CENTER OF GRAVITY Y-AXIS ACCELERATION

TEST NUMBER: 041020

FNVS 214 LEFT SIDE IMPACT

TRC INC.

440

345

250

155

60

-35

-130

ACCELERATION (G X 10⁻¹)

See Data Acquisition Explanations

TIME (MS)

CHANNEL: VCCY51 FILTER: CH. CLASS 60

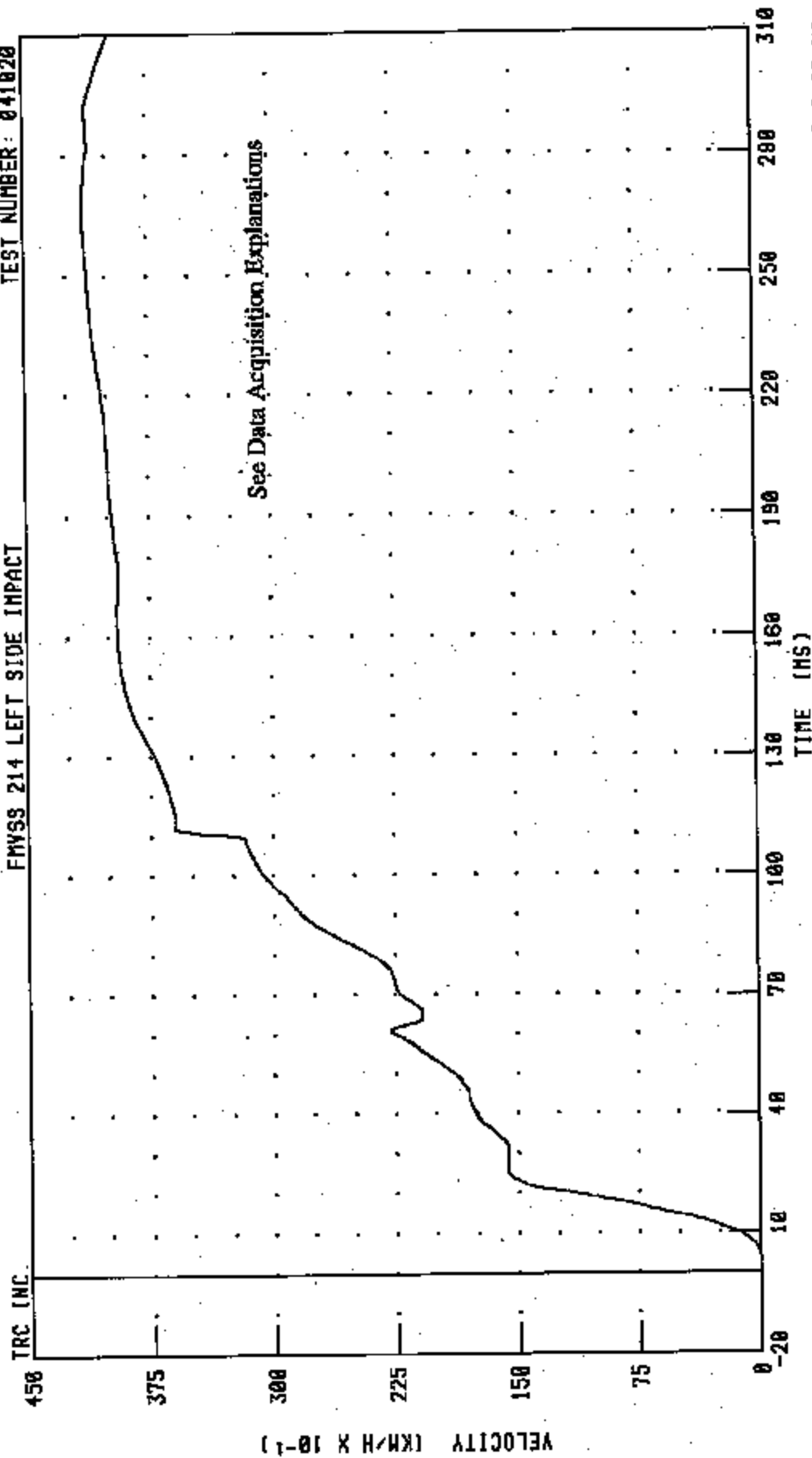
PEAK DATA: 39.19 G @ 19.36 MS, -12.70 G @ 62.72 MS

55/20 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2005 SCION IC

VEHICLE CENTER OF GRAVITY Y-AXIS VELOCITY

FMVSS 214 LEFT SIDE IMPACT

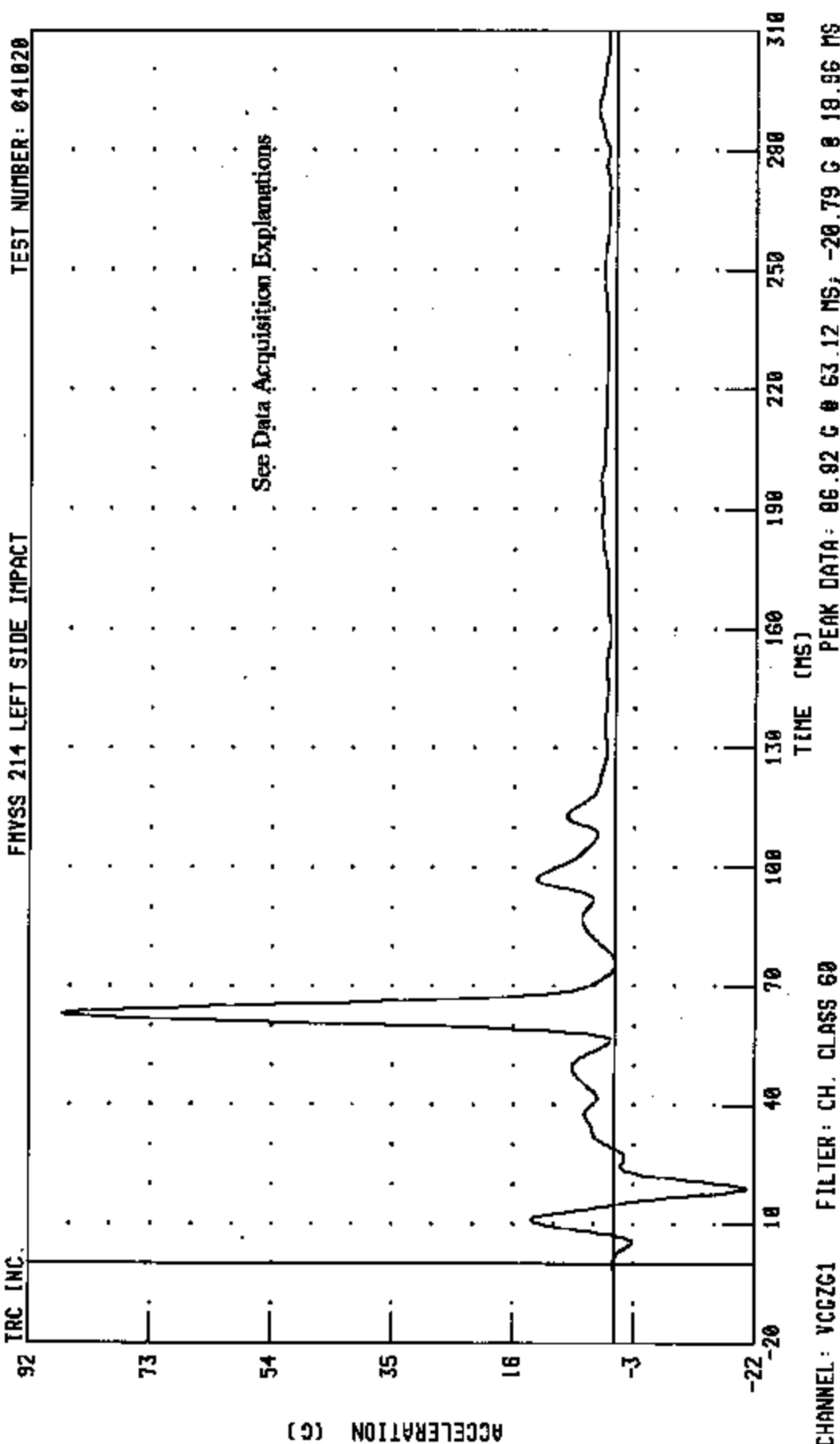
TEST NUMBER: 041020



CHANNEL: VCCYV1 FILTER: CH. CLASS 1B0

PEAK DATA: 41.39 KM/H @ 266.08 MS, 0.00 KM/H @ 0.00 MS

55/20 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2005 SCION TC
VEHICLE CENTER OF GRAVITY Z-AXIS ACCELERATION

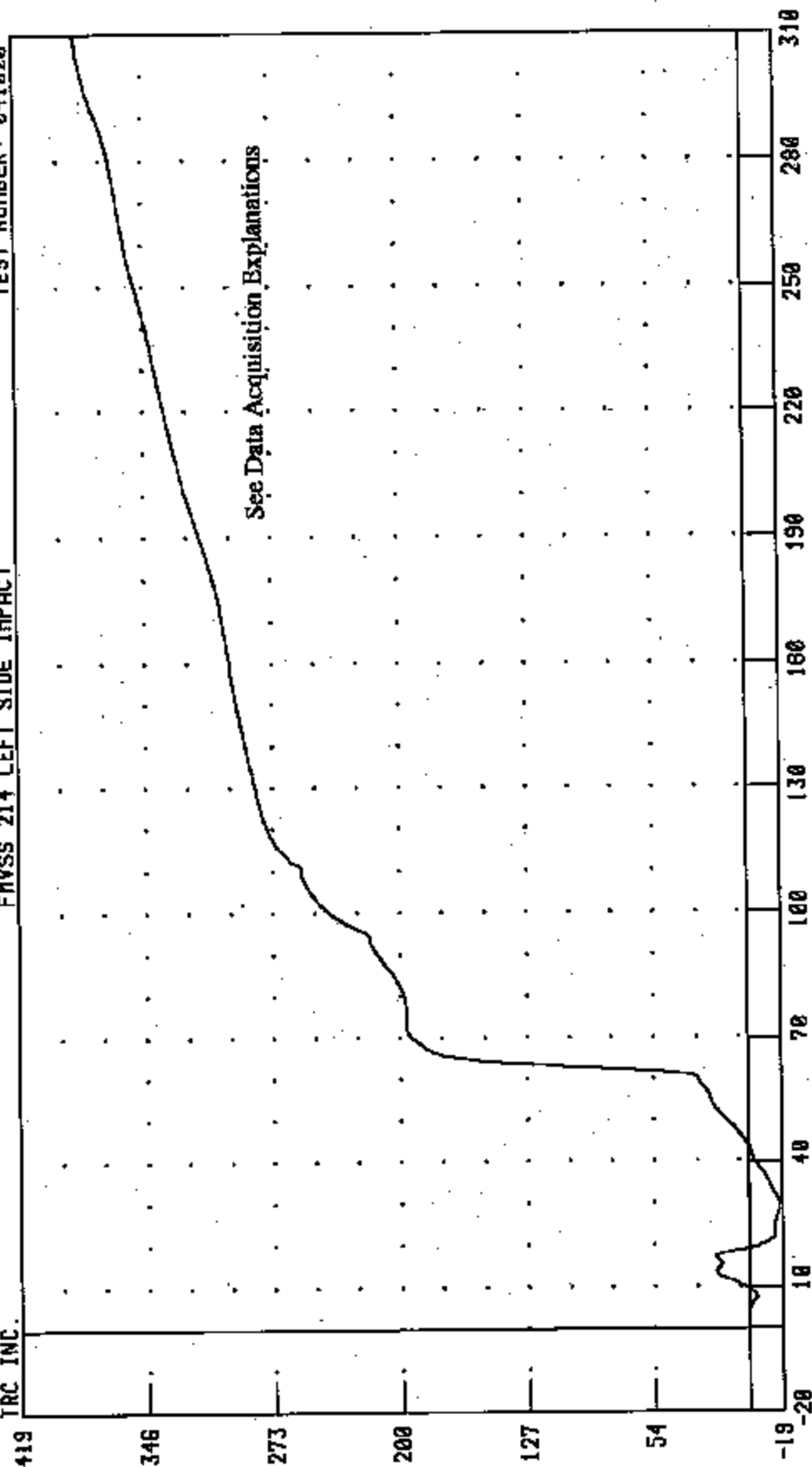


55/28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2005 SCION TC
VEHICLE CENTER OF GRAVITY Z-AXIS VELOCITY

TEST NUMBER: 041020

FMVSS 214 LEFT SIDE IMPACT

TRC INC.



(1-01 X H/W) ALIOTEA

PEAK DATA: 38.46 KM/H @ 310.00 MS, -1.75 KM/H @ 29.28 MS

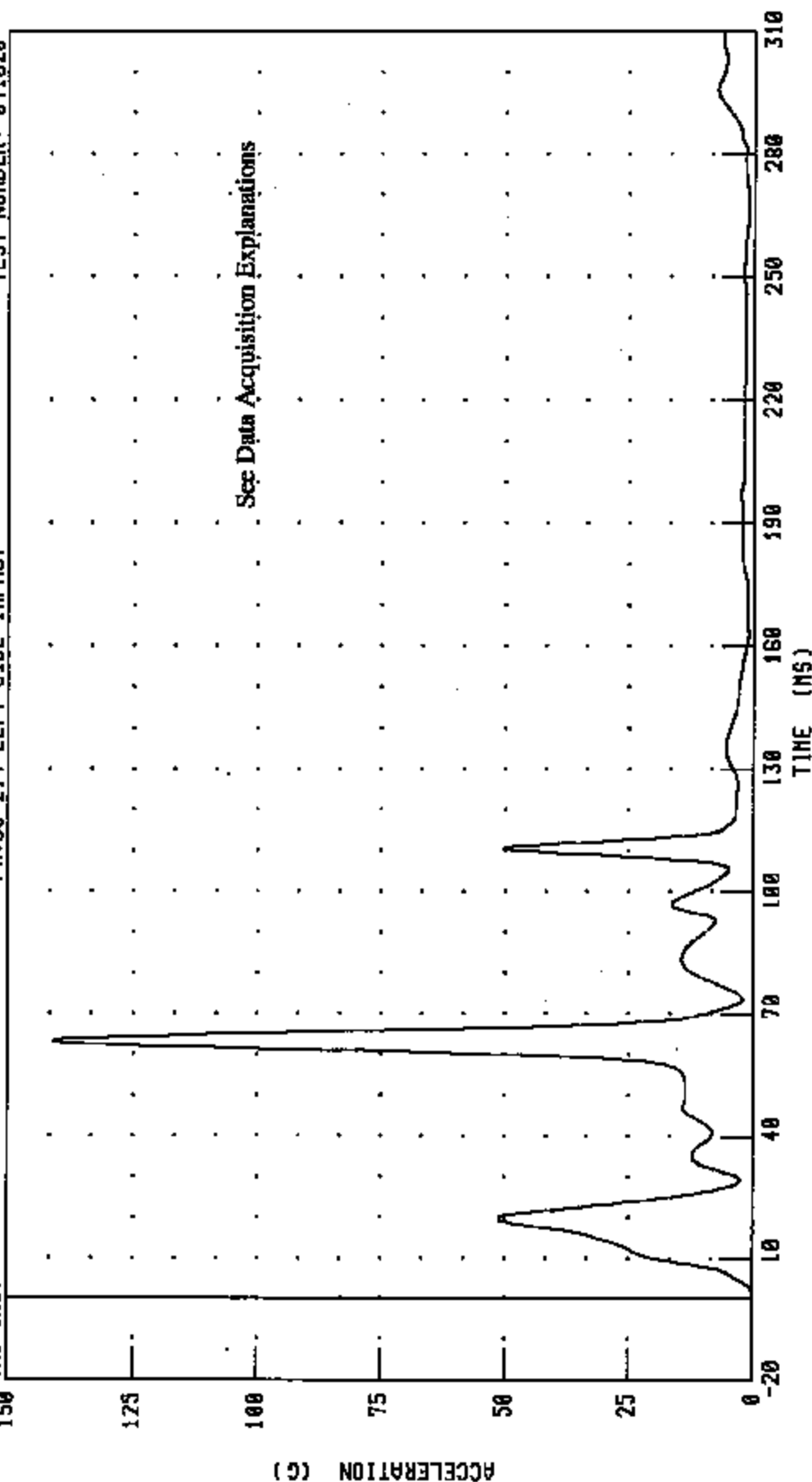
CHANNEL: VCCZY1 FILTER: CH. CLASS 180

55/28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2005 SCION TC
VEHICLE CENTER OF GRAVITY RESULTANT ACCELERATION

TRC INC.

FNVS 214 LEFT SIDE IMPACT

TEST NUMBER: 041020



CHANNEL: VCCRC1 FILTER: CH. CLASS 60

PEAK DATA: 141.03 G @ 63.20 MS; 0.01 G @ -16.80 MS

MDB Instrumentation Plots

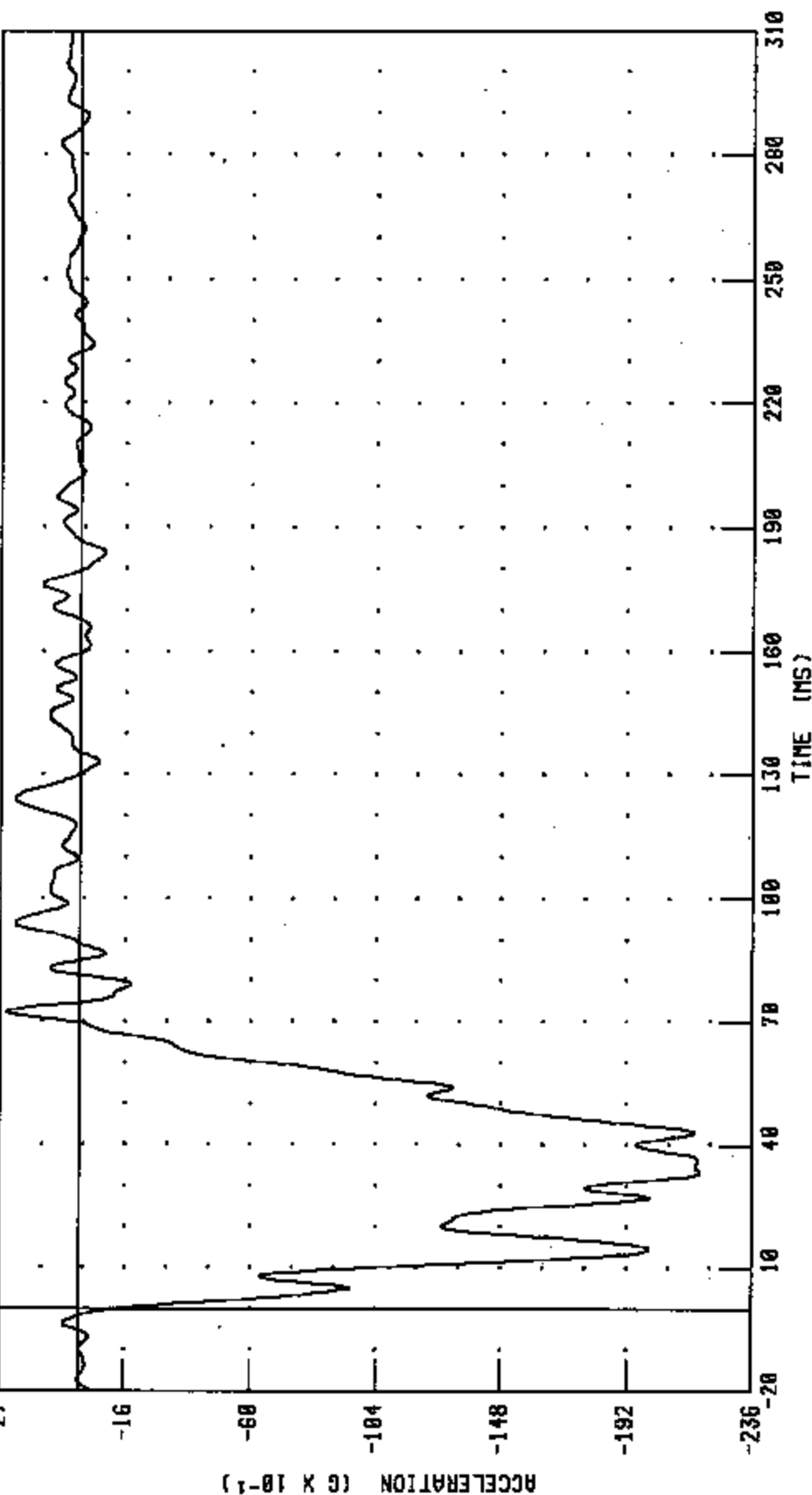
55/28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2005 SCION TC

MOB CENTER OF GRAVITY X-AXIS ACCELERATION

TEST NUMBER: 041020

FMVSS 214 LEFT SIDE IMPACT

TRC INC.



CHANNEL: BCCXG1 FILTER: CH. CLASS 60

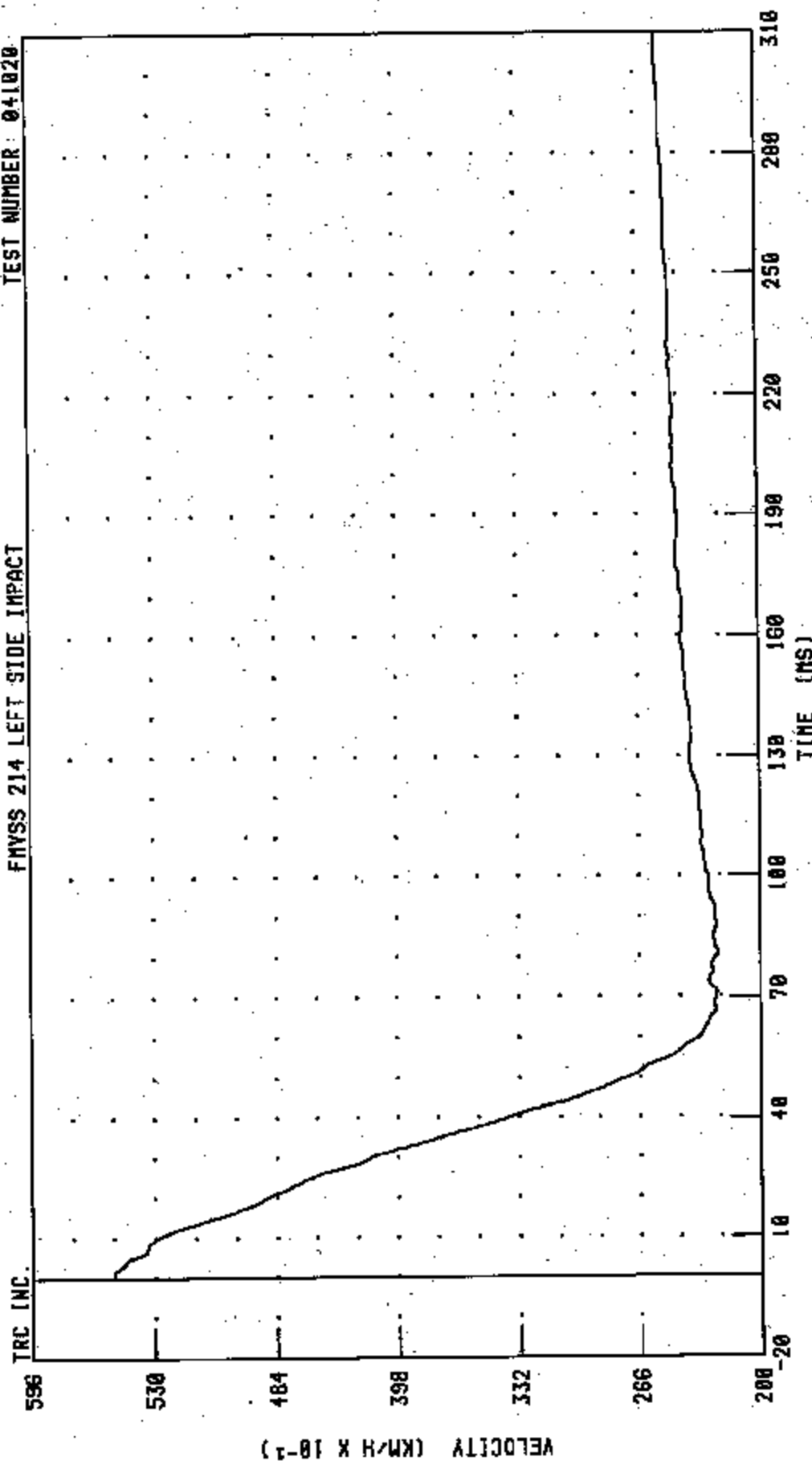
PEAK DATA: 2.59 G @ 72.40 MS; -21.78 G @ 33.44 MS

55/20 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2005 SCION TC

MOB CENTER OF GRAVITY X-AXIS VELOCITY

FNYS 214 LEFT SIDE IMPACT

TEST NUMBER: 041020



PEAK DATA: 55.20 KM/H @ 0.24 MS; 22.34 KM/H @ 00.96 MS

CHANNEL: BCCXV1 FILTER: CH. CLASS 100

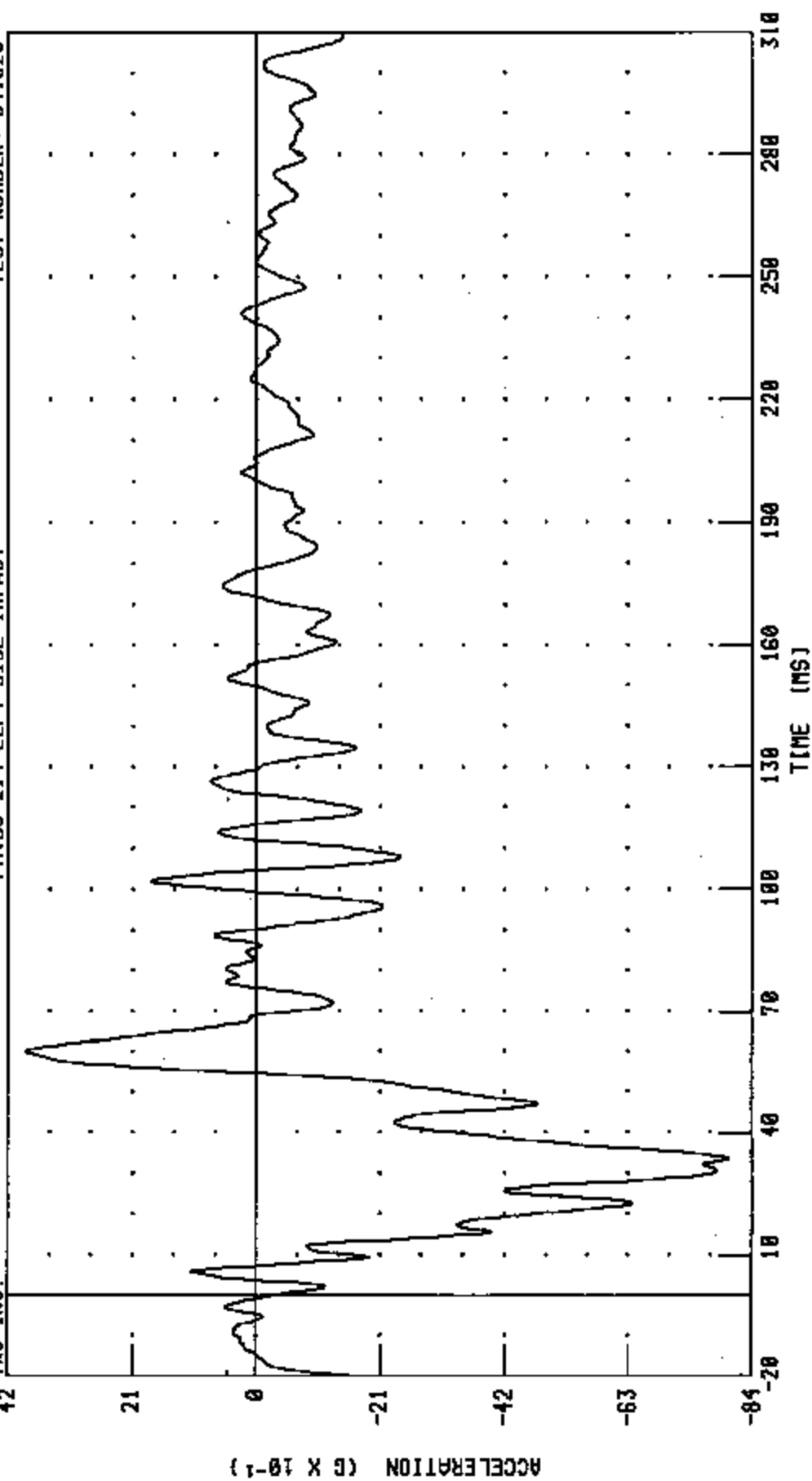
55/28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2005 SCION TC

NDB CENTER OF GRAVITY Y-AXIS ACCELERATION

TRC INC.

PHYSS 214 LEFT SIDE IMPACT

TEST NUMBER: 041020



CHANNEL: BCCYG1 FILTER: CH. CLASS 60

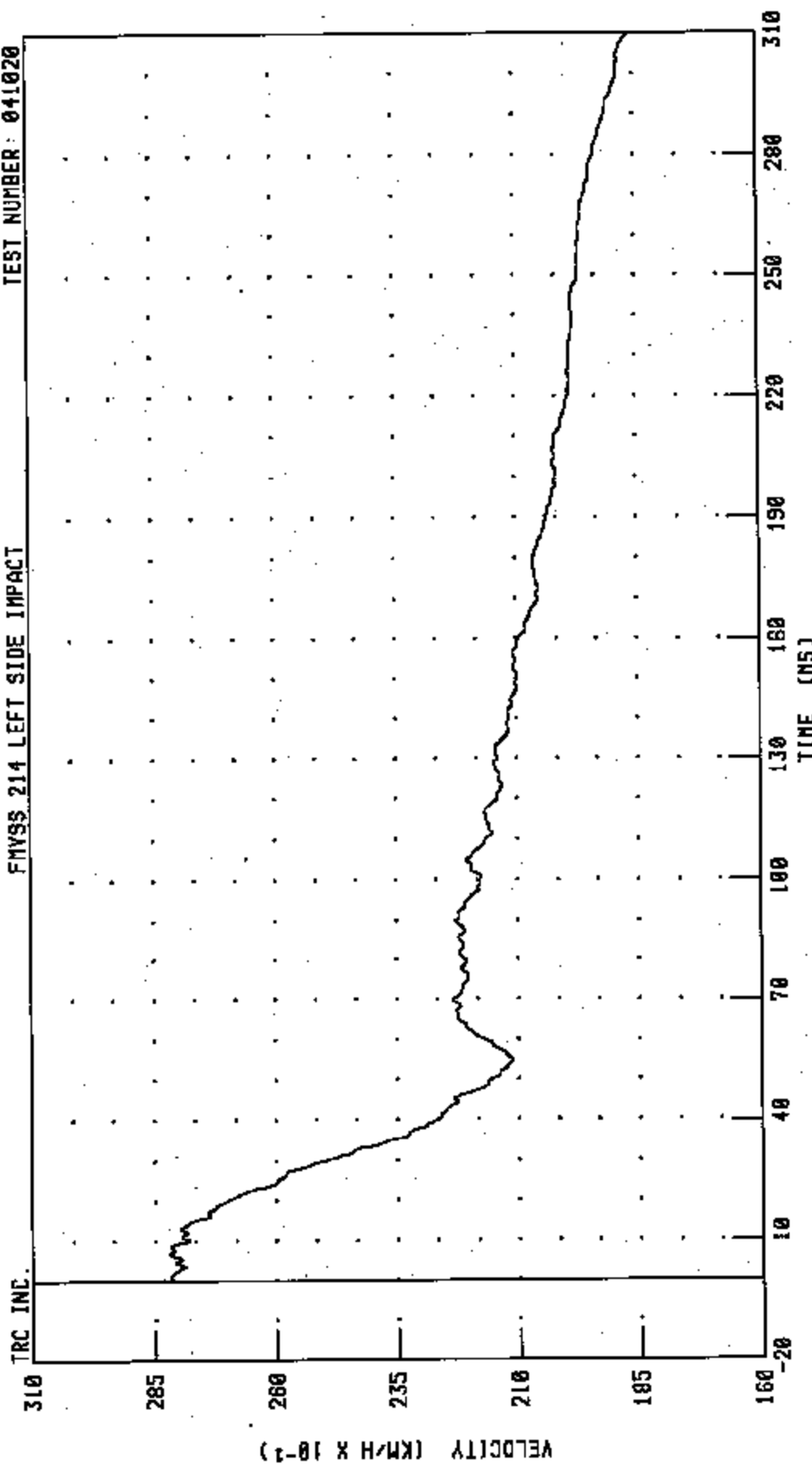
PEAK DATA: 3.91 G @ 60.00 MS, -8.81 G @ 33.68 MS

55/28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2805 SCION TC

RDB CENTER OF GRAVITY Y-AXIS VELOCITY

FMVSS 214 LEFT SIDE IMPACT

TEST NUMBER: 041020



CHANNEL: BCGV1 FILTER: CH. CLASS 180

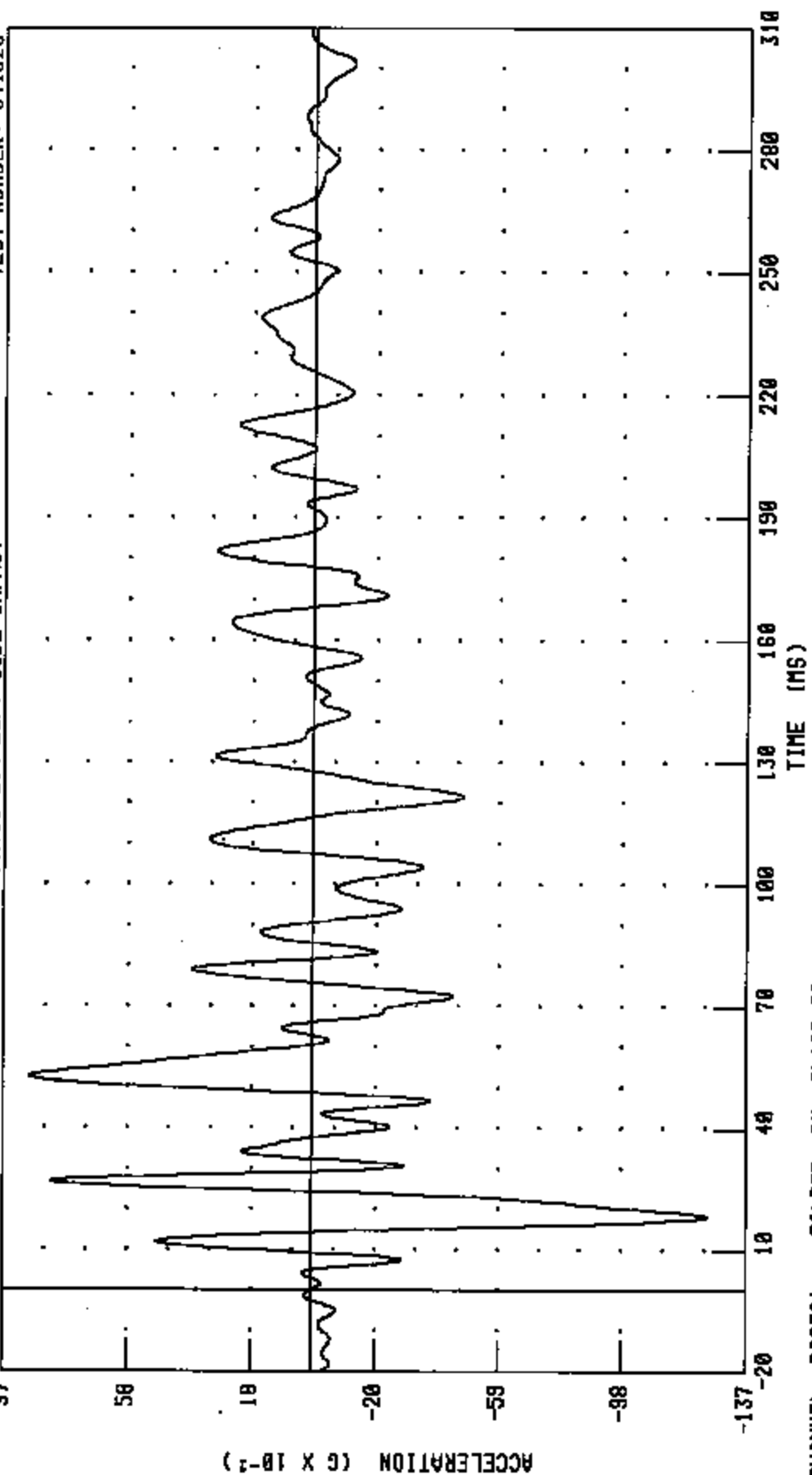
PEAK DATA: 28.22 KM/H @ 8.80 MS, 18.59 KM/H @ 310.00 MS

55/28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2005 SCION TC
MDB CENTER OF GRAVITY Z-AXIS ACCELERATION

97 TRC INC.

FMVSS 214 LEFT SIDE IMPACT

TEST NUMBER: 041020



CHANNEL: BCGZG1 FILTER: CH. CLASS 60

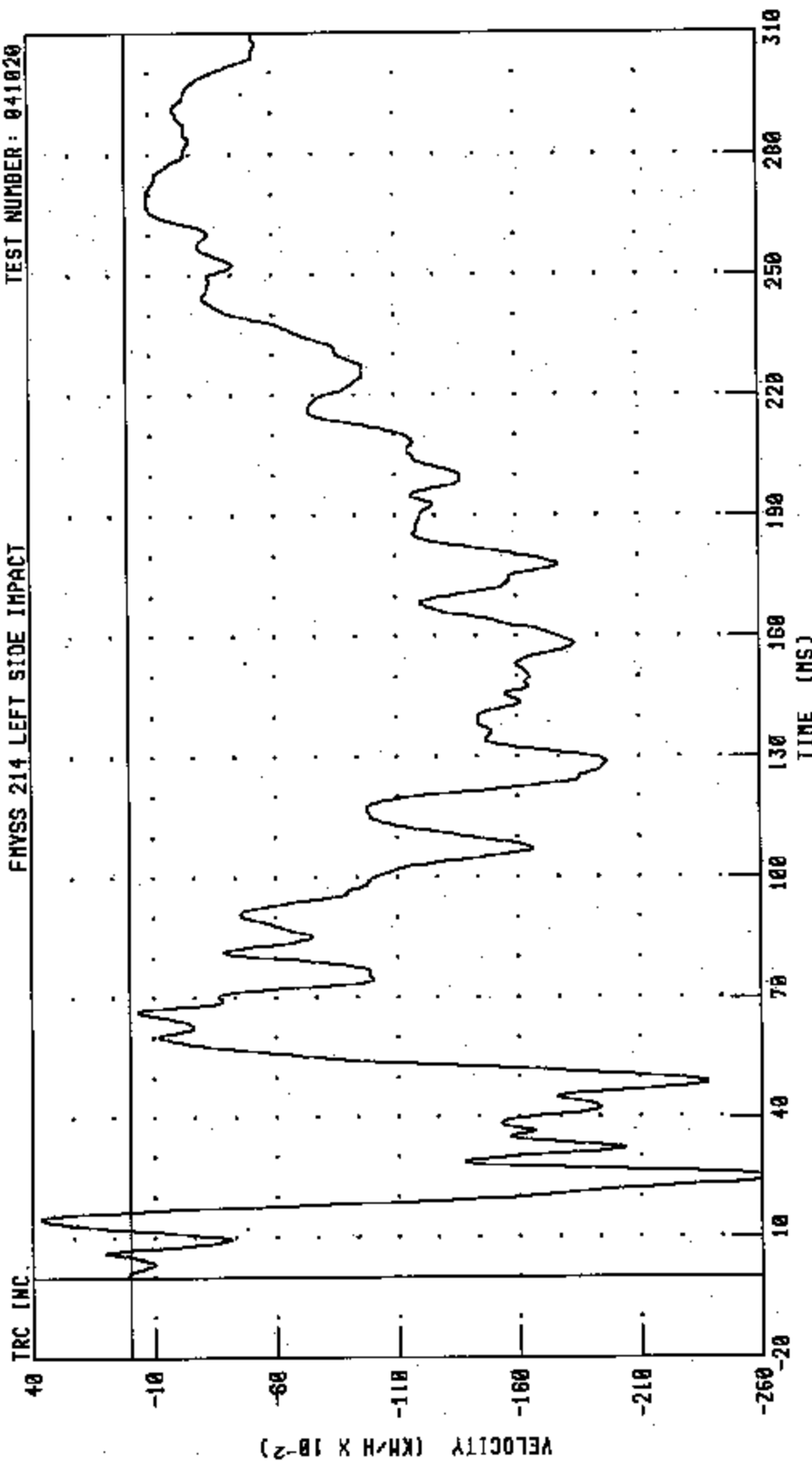
PEAK DATA: 8.88 G @ 52.72 MS; -12.47 G @ 18.24 MS

55/28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2805 SECTION TC

MOB CENTER OF GRAVITY Z-AXIS VELOCITY

ENVSS 214 LEFT SIDE IMPACT

TEST NUMBER: 041020



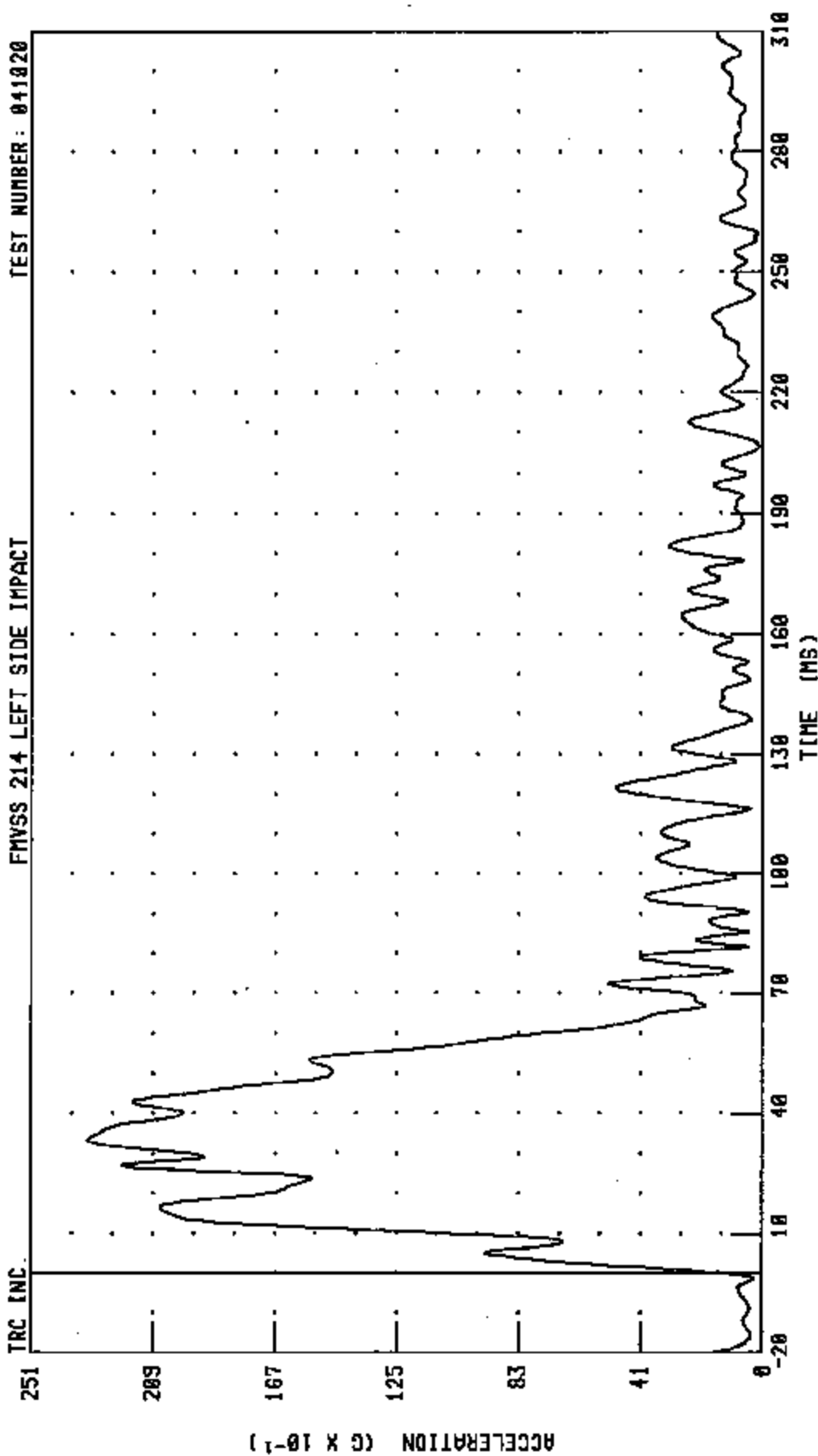
CHANNEL: BCCZVI FILTER: CH. CLASS 180

PEAK DATA: 0.37 KM/H @ 14.72 MS, -2.67 KM/H @ 24.72 MS

55/28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2005 SCION TC
 MDB CENTER OF GRAVITY RESULTANT ACCELERATION

TEST NUMBER: 041020

FNVS 214 LEFT SIDE IMPACT



CHANNEL: BCGRC1 FILTER: CH. CLASS 60

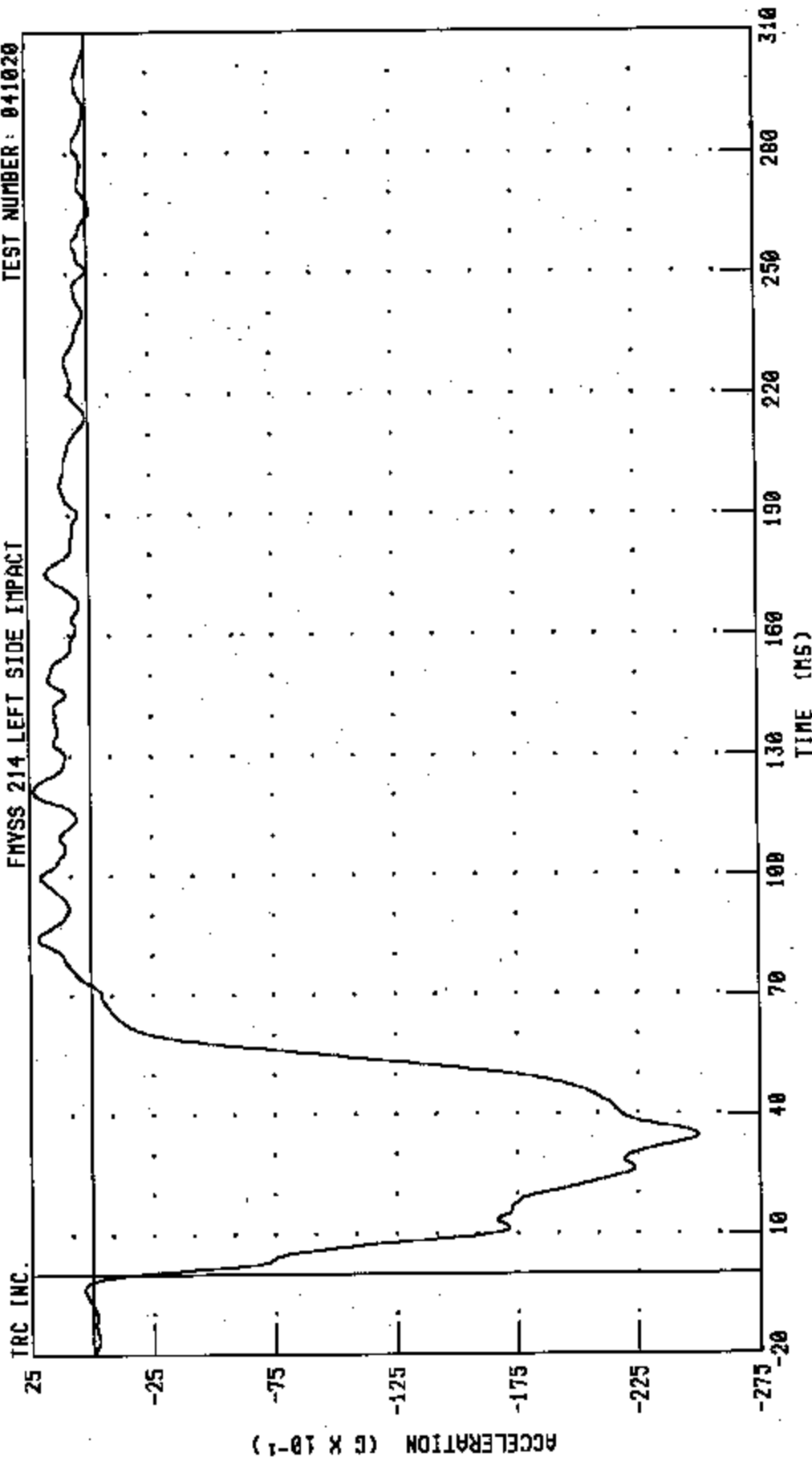
PEAK DATA: 23.29 G @ 33.60 MS, 0.11 G @ 206.48 MS

55/20 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2005 SCION TC

NOB LEFT REAR X-AXIS ACCELERATION

FNYS 214 LEFT SIDE IMPACT

TEST NUMBER: 041020



CHANNEL: LRRXG1 FILTER: CH. CLASS 60

PEAK DATA: 2.34 G @ 121.68 MS; -25.00 G @ 34.64 MS

55/20 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2005 SCION TC

MOB LEFT REAR X-AXIS VELOCITY

TEST NUMBER: 841020

FMVSS 214 LEFT SIDE IMPACT

TRC INC.

596

525

454

383

312

241

170

VELOCITY (KM/H X 10⁻¹)

TIME (MS)

310

280

250

220

190

160

130

100

70

40

10

-20

CHANNEL: LRRXVI FILTER: CH. CLASS 180

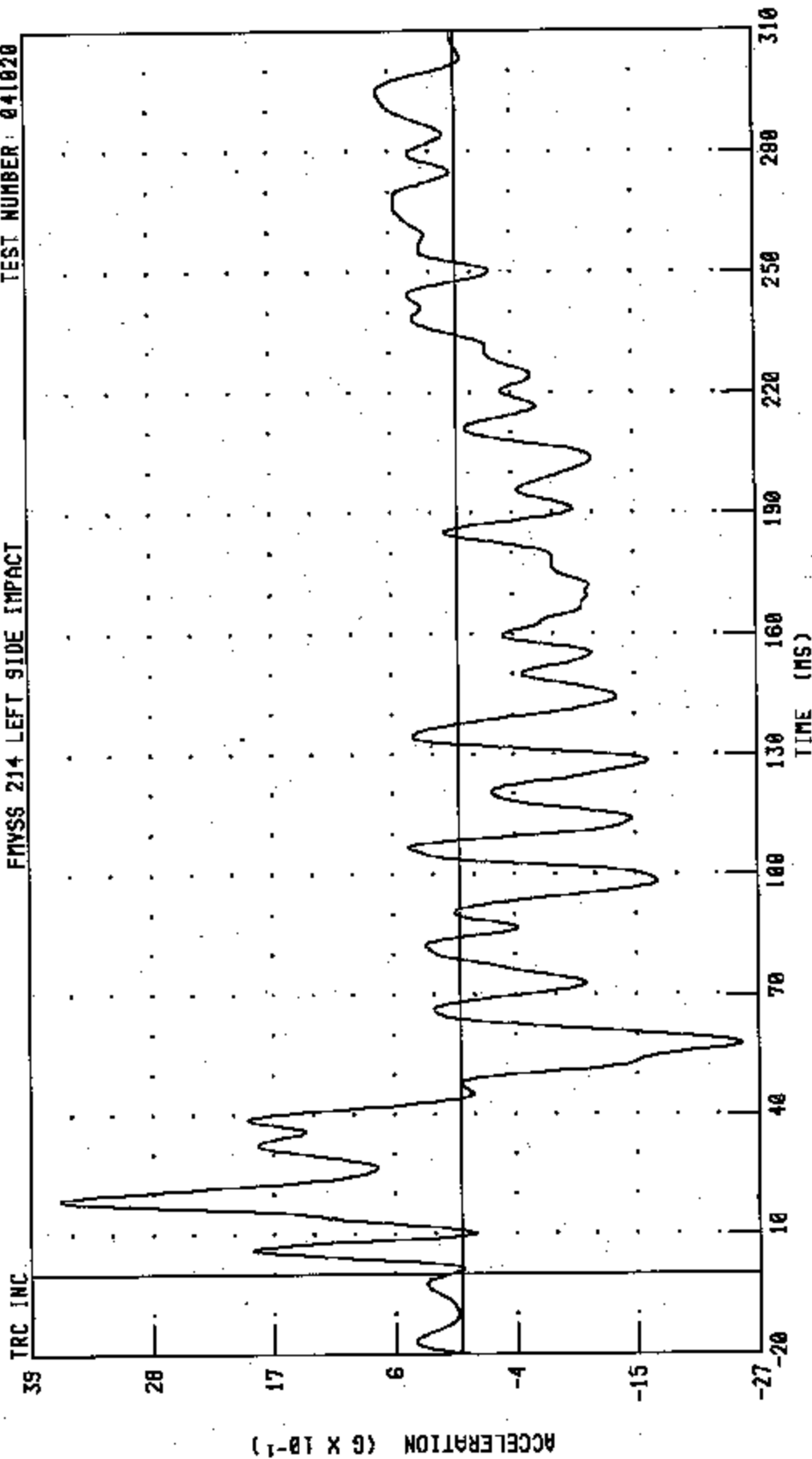
PEAK DATA: 55.20 KM/H @ 0.48 MS; 19.89 KM/H @ 72.24 MS

55/28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2005 SCION TC

MOB LEFT REAR Y-AXIS ACCELERATION

FMVSS 214 LEFT SIDE IMPACT

TEST NUMBER: 041020



CHANNEL: LRRYGI FILTER: CH. CLASS 60

PEAK DATA: 3.64 G @ 10.56 MS, -2.54 G @ 57.76 MS

55/20 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2005 SECTION TC

MOB LEFT REAR Y-AXIS VELOCITY

TEST NUMBER: 041020

FMVSS 214 LEFT SIDE IMPACT

TRC INC.

328

310

VELOCITY (KM/H X 10⁻¹)

292

274

256

238

220

-20

10

40

70

100

130

160

190

220

250

280

310

TIME (MS)

CHANNEL: LRRYV1 FILTER: CH. CLASS 100

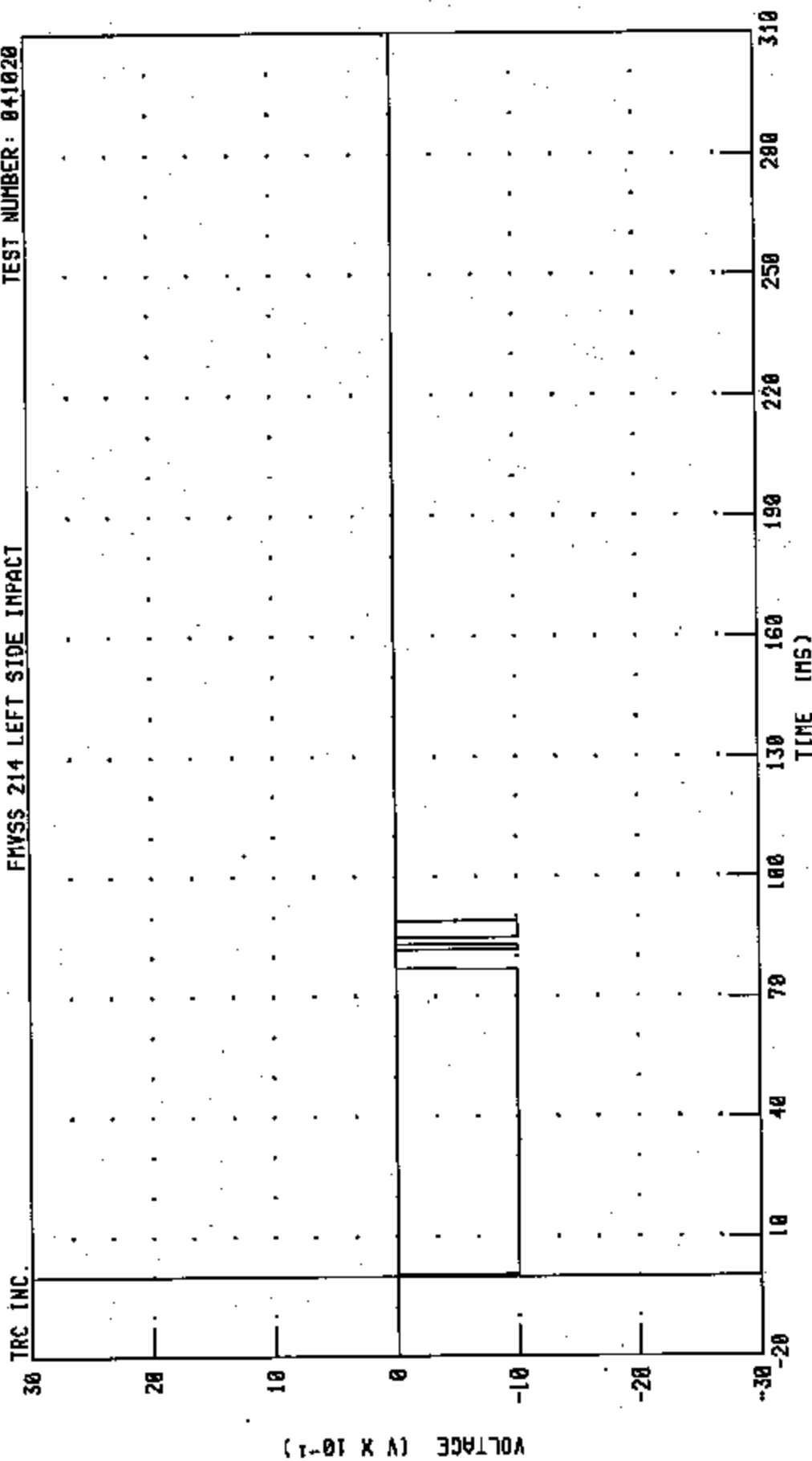
PEAK DATA: 30.17 KM/H @ 50.32 MS; 25.46 KM/H @ 234.24 MS

55/28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2085 SCION TC

MDB RIGHT SIDE CONTACT SWITCH

FMVSS 214 LEFT SIDE IMPACT

TEST NUMBER: 041020



CHANNEL: MDBR1 FILTER: CH. CLASS 1000

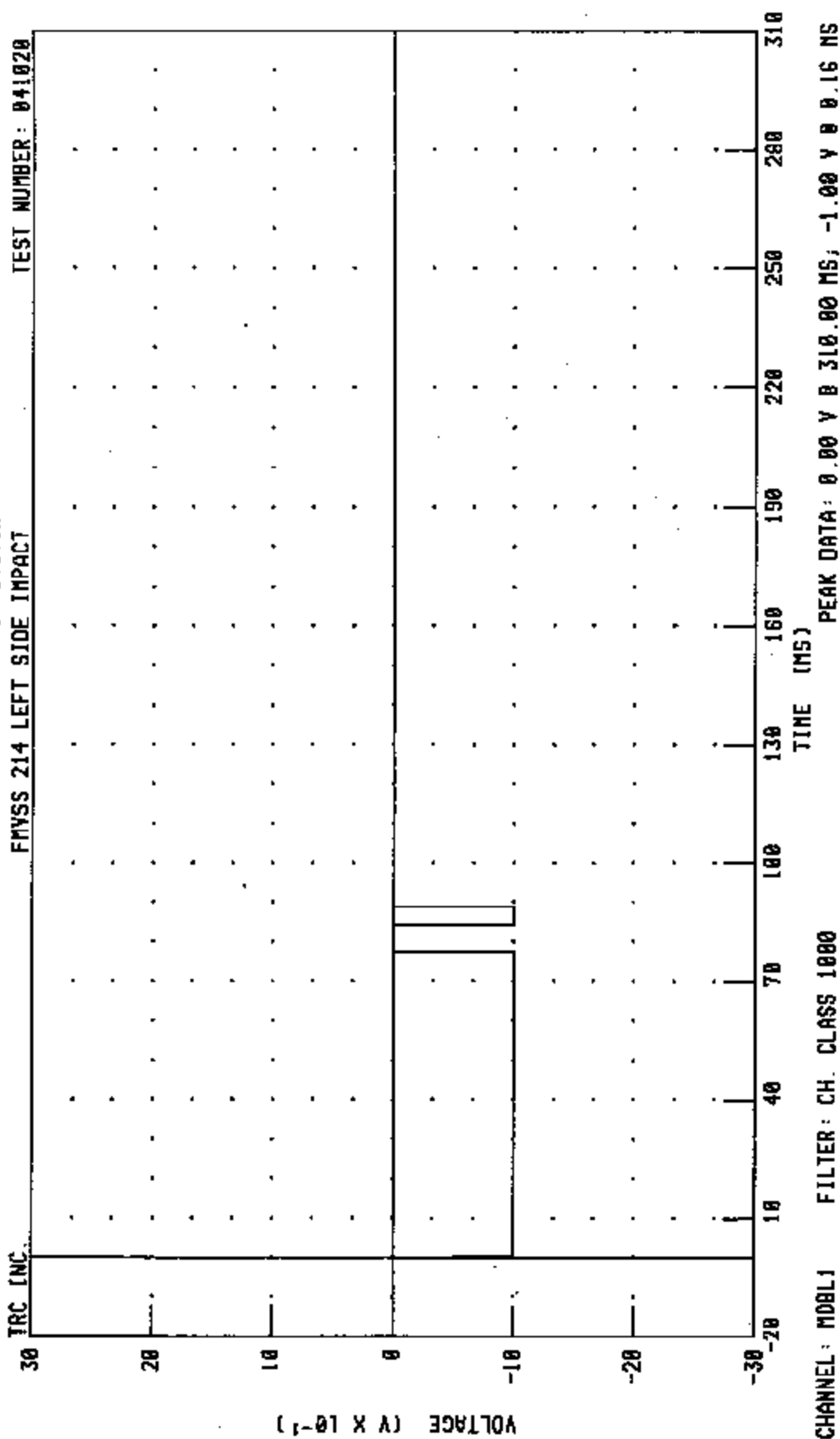
PEAK DATA: 0.00 V @ 310.00 MS; -1.00 V @ 0.64 MS

55/20 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2005 SCION TC

MOB LEFT SIDE CONTACT SWITCH

FMYSS 214 LEFT SIDE IMPACT

TEST NUMBER: 041020



Driver and Passenger Dummy Instrumentation Plots

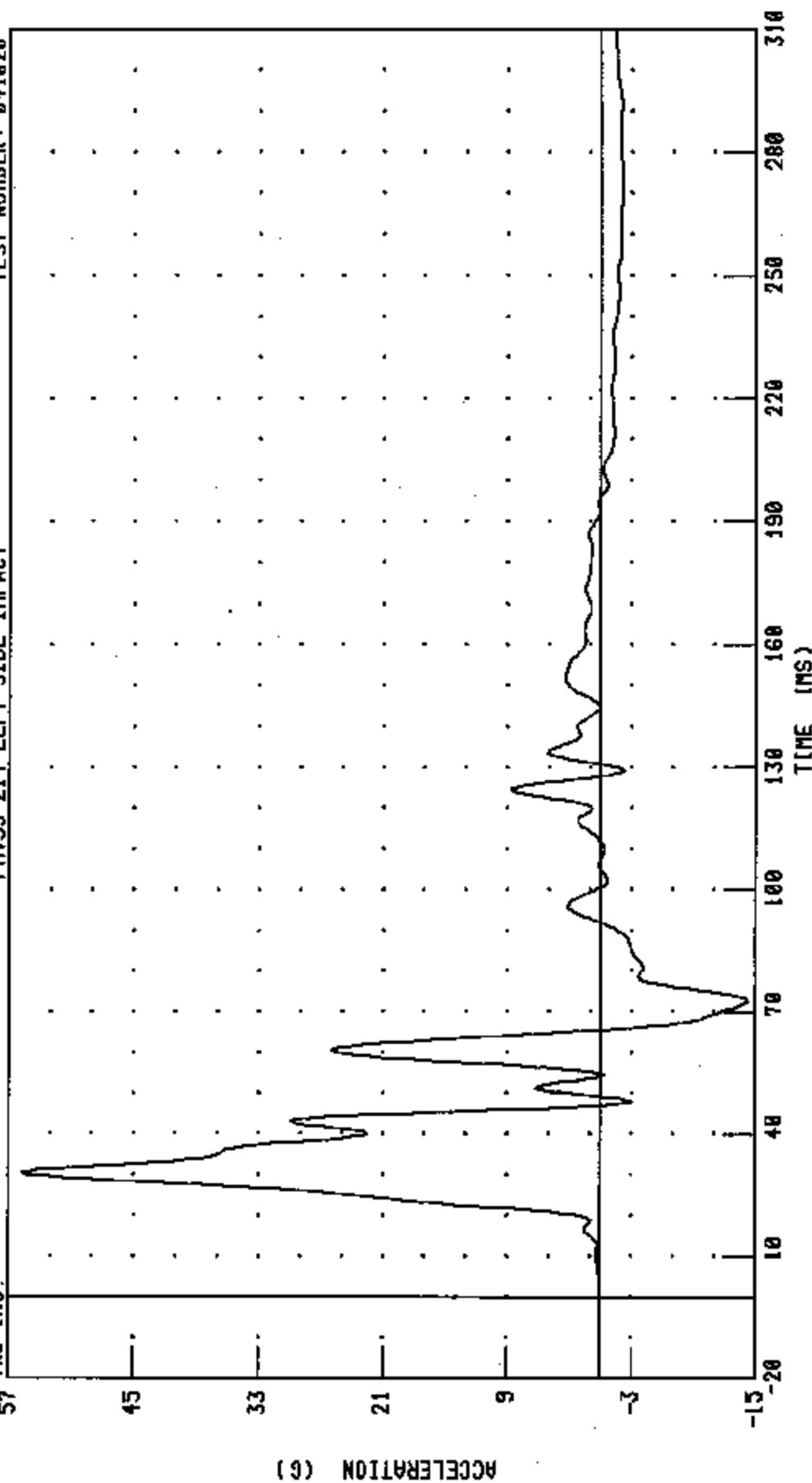
55/28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2005 SCION TC

DRIVER UPPER RIB Y-AXIS ACCELERATION

TRC INC.

FNVS 214 LEFT SIDE IMPACT

TEST NUMBER: 041020

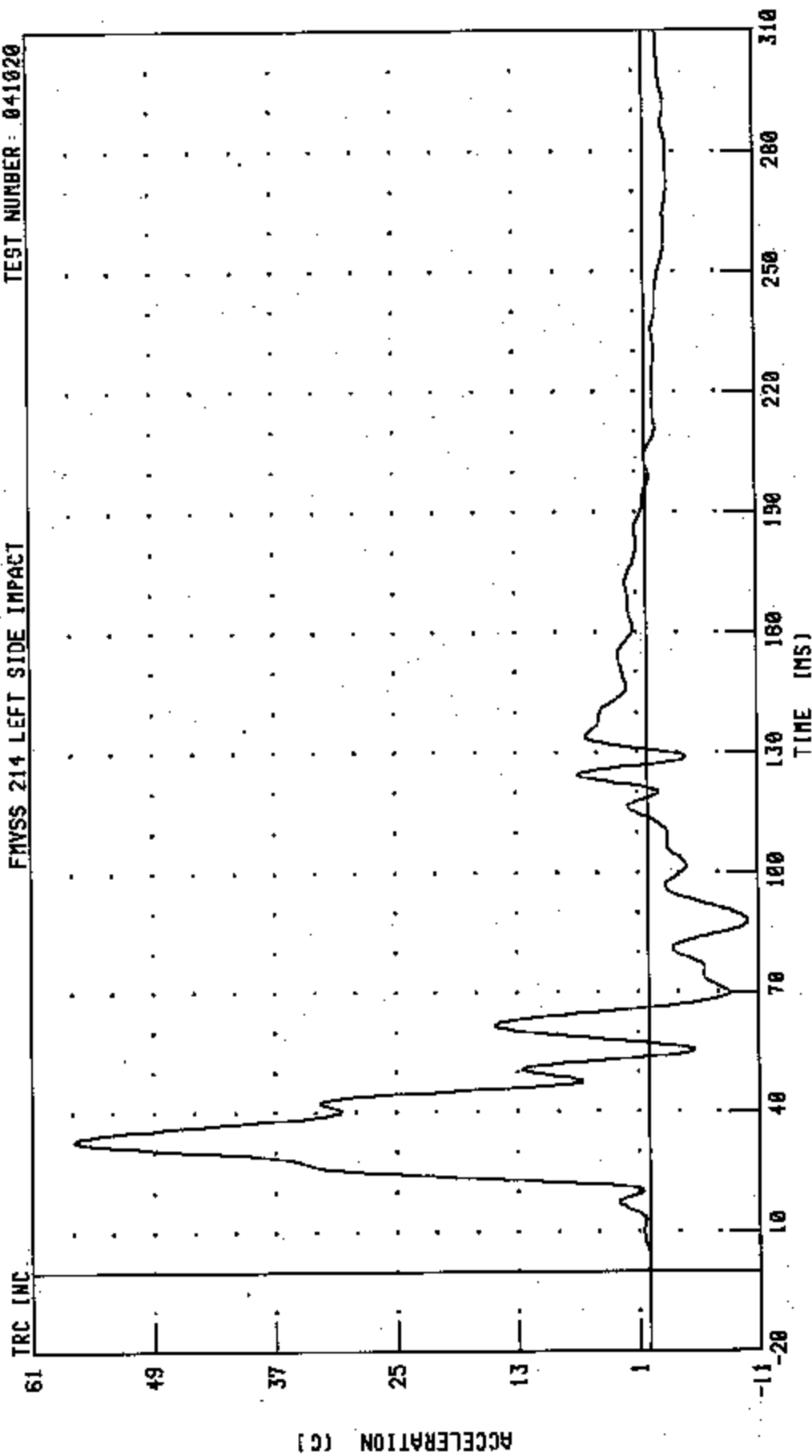


CHANNEL: LURYG1 FILTER: FIR 100

PEAK DATA: 55.70 G @ 30.62 MS, -14.15 G @ 72.50 MS

55/28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2005 SCION TC
 DRIVER LOWER RIB Y-AXIS ACCELERATION
 FMVSS 214 LEFT SIDE IMPACT

TEST NUMBER: 041020



CHANNEL: LLRYG1 FILTER: FIR 100

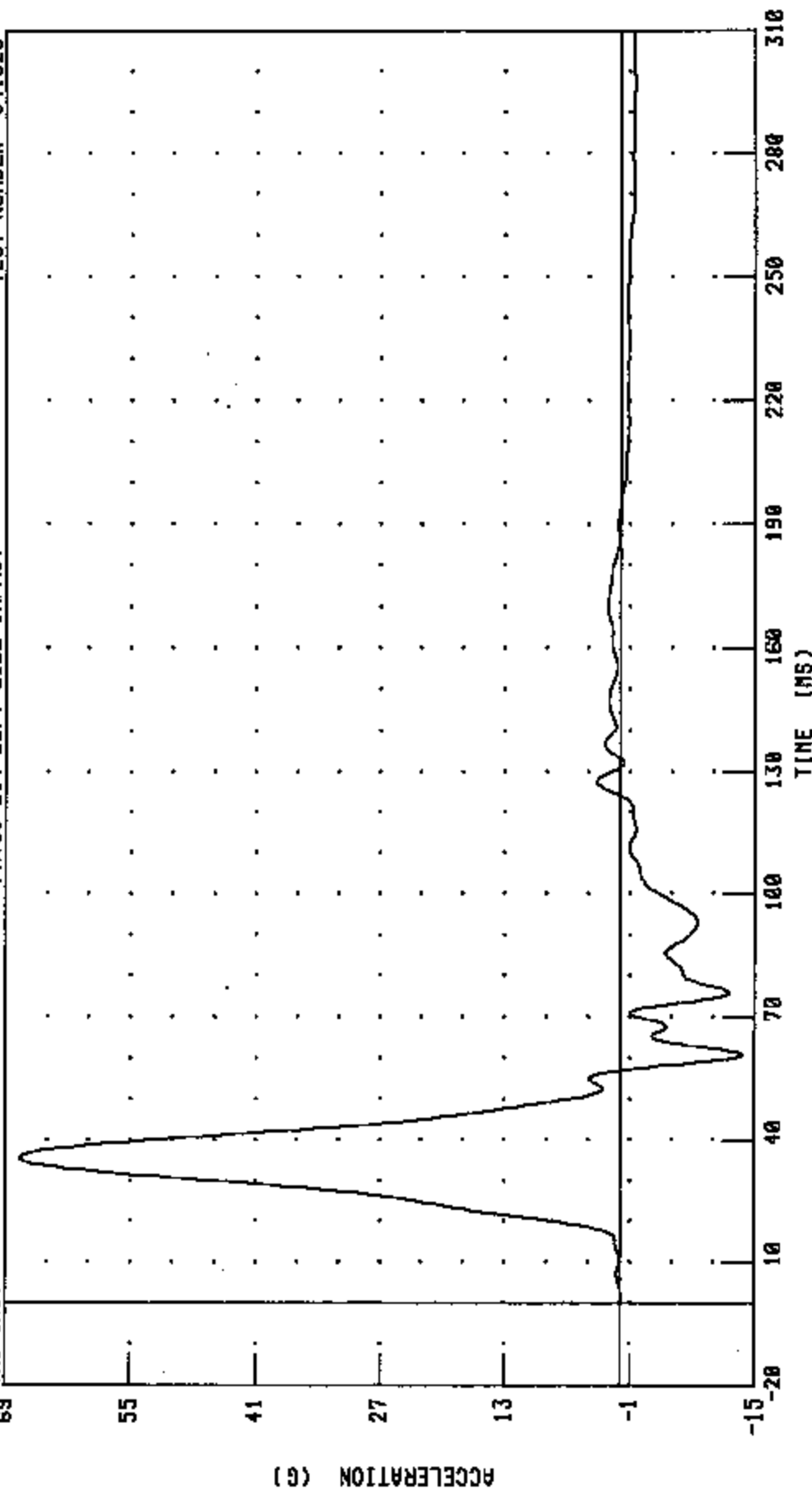
PEAK DATA: 56.83 G @ 33.13 MS, -10.01 G @ 88.13 MS

55/28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2005 SCION TC
DRIVER LOWER SPINE Y-AXIS ACCELERATION

TRC INC.

FMVSS 214 LEFT SIDE IMPACT

TEST NUMBER: 041020



CHANNEL: T12Y61 FILTER: FIR 100

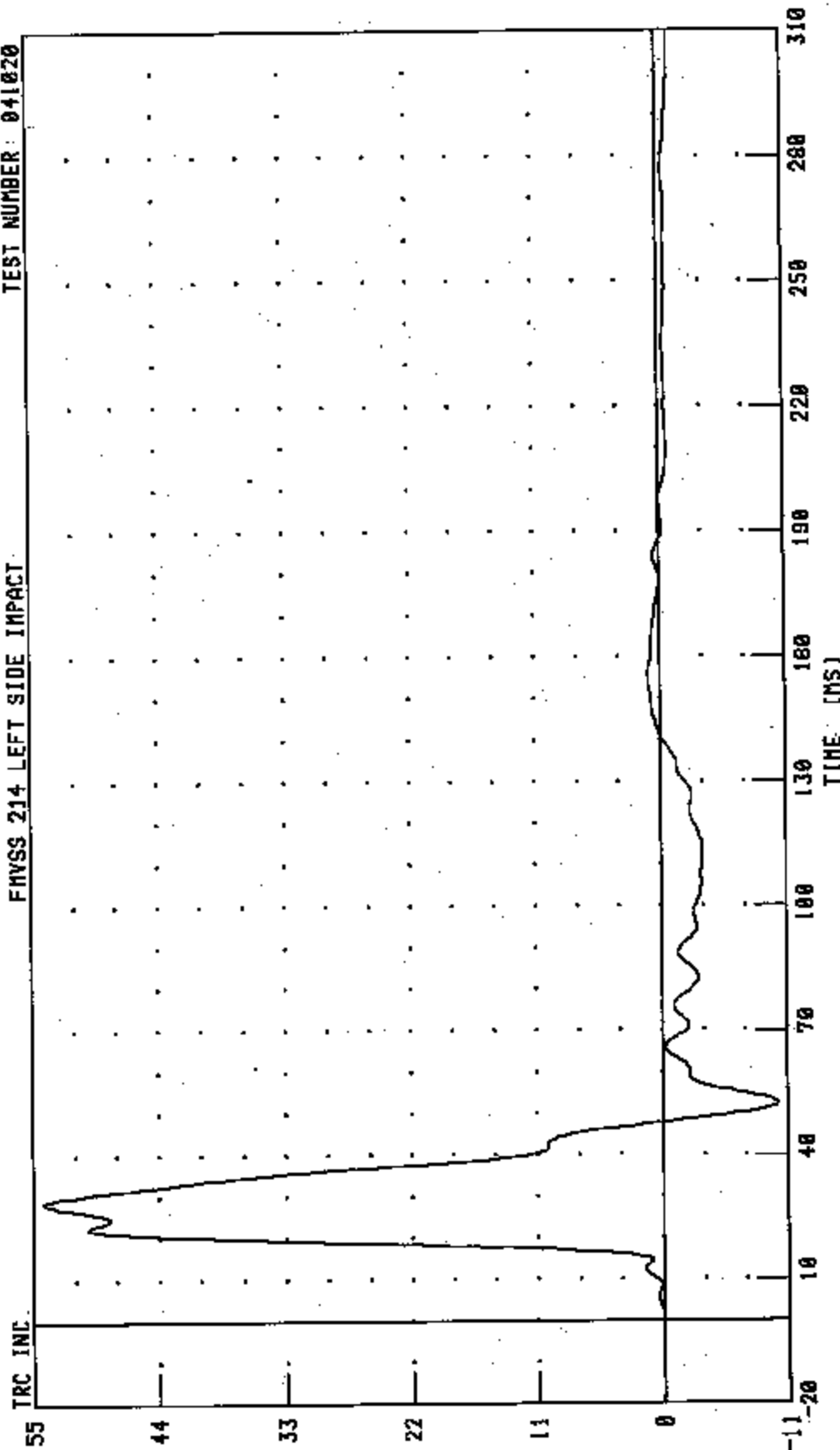
PEAK DATA: 67.35 G @ 35.63 MS; -13.67 G @ 60.62 MS

55/28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2805 SCION TC

DRIVER PELVIS Y-AXIS ACCELERATION

FHVSS 214 LEFT SIDE IMPACT

TEST NUMBER: 041020



CHANNEL: PEVY61 FILTER: FIR 100

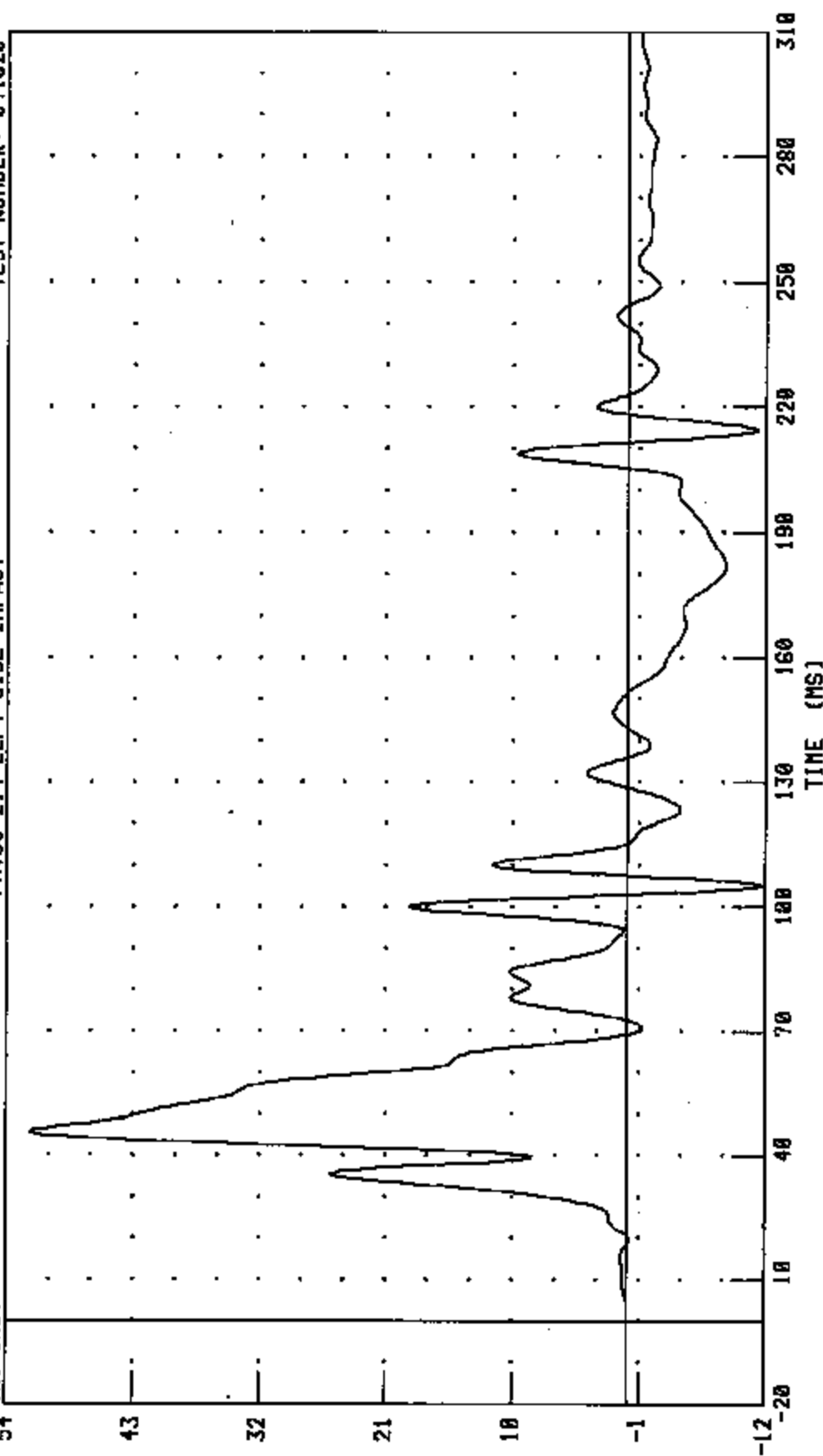
PEAK DATA: 54.14 G @ 28.75 MS; -10.21 G @ 52.50 MS

55/20 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2005 SCION TC
LEFT REAR PASSENGER UPPER RIB Y-AXIS ACCELERATION

TEST NUMBER: 041020

FHVSS 214 LEFT SIDE IMPACT

54 TRC INC.



ACCELERATION (G)

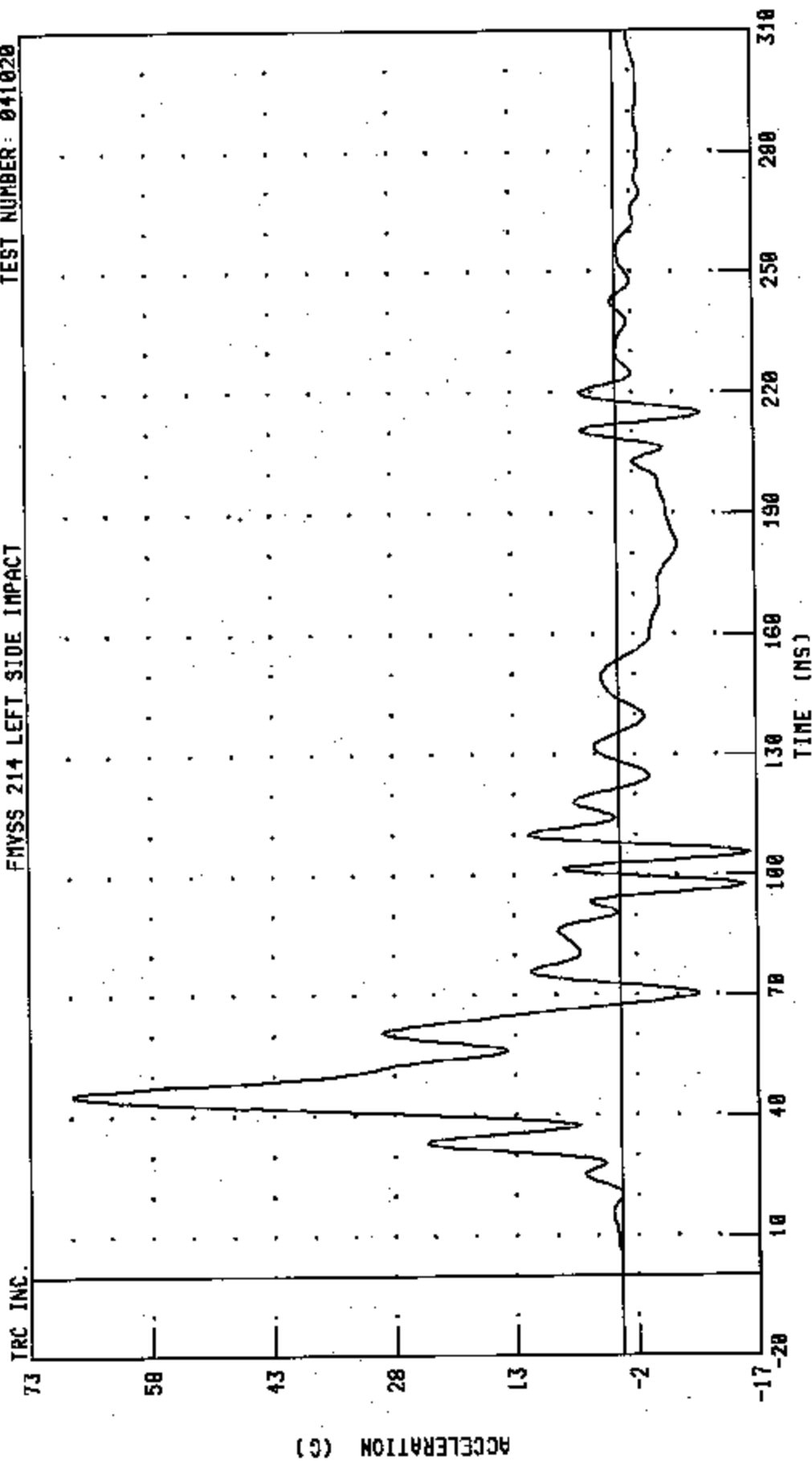
CHANNEL: LURYC4 FILTER: FIR 100

PEAK DATA: 52.00 G @ 45.62 MS; -11.73 G @ 105.00 MS

55/28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2005 SCION TC
LEFT REAR PASSENGER LOWER RIB Y-AXIS ACCELERATION

TEST NUMBER: 041020

FMVSS 214 LEFT SIDE IMPACT



CHANNEL: L1RY64 FILTER: FIR 100

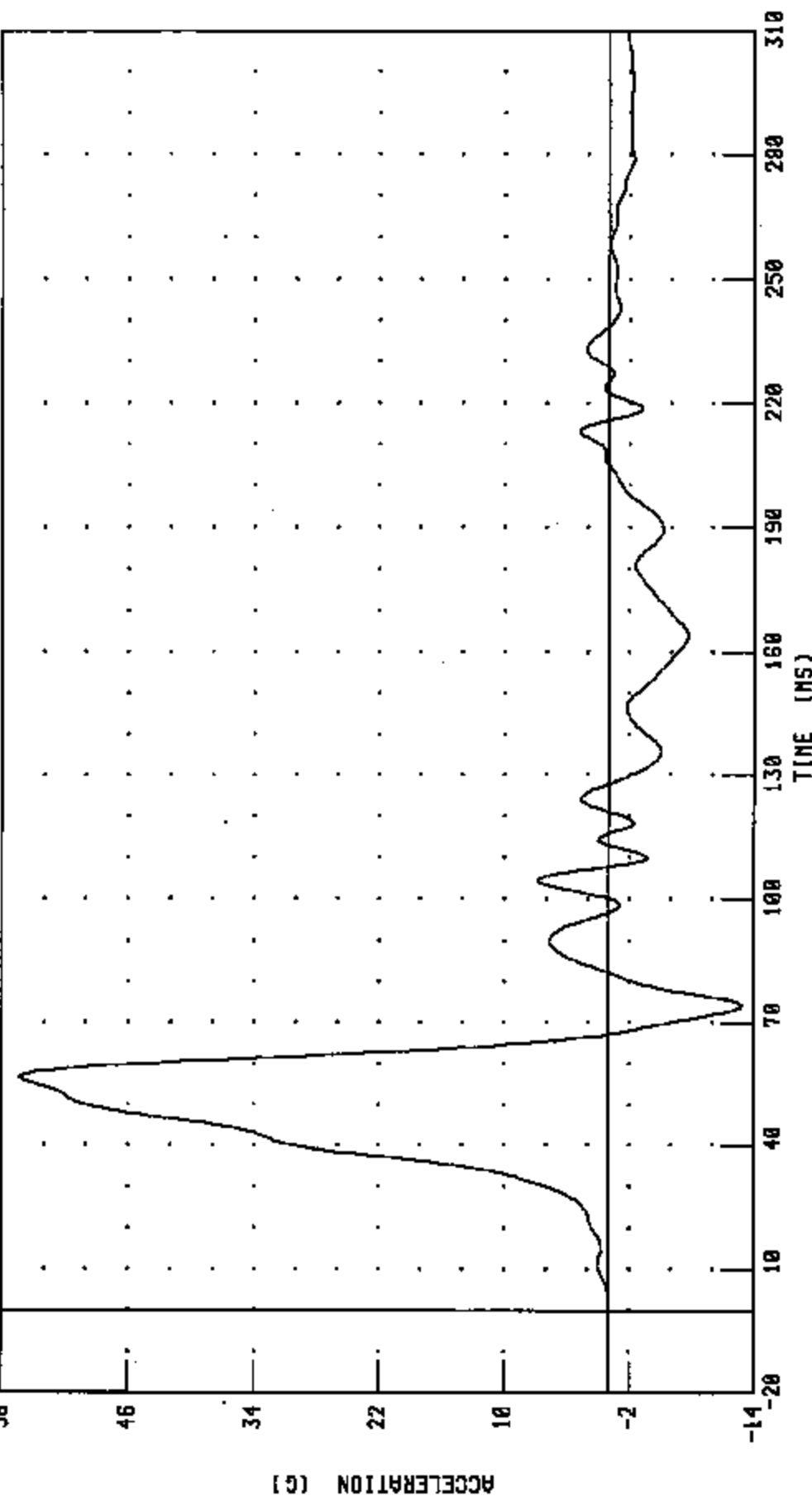
PEAK DATA: 67.64 G @ 45.00 MS; -16.14 G @ 105.62 MS

55/20 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2005 SCION TC
LEFT REAR PASSENGER LOWER SPINE Y-AXIS ACCELERATION

TEST NUMBER: 041020

FNYS 214 LEFT SIDE IMPACT

TRC INC.



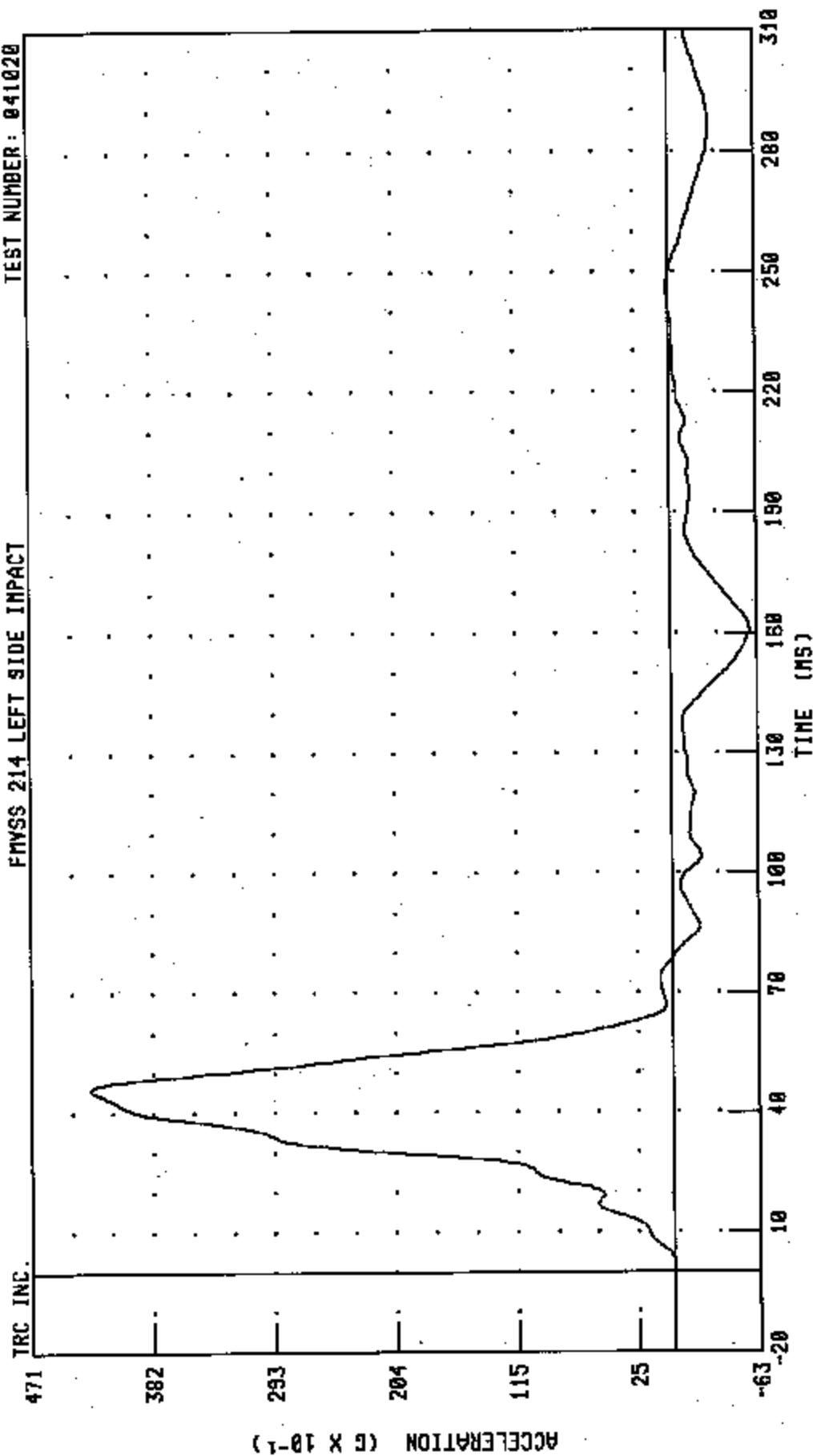
CHANNEL: T12YC4 FILTER: FIR 100

PEAK DATA: 56.36 G @ 56.87 MS, -12.04 G @ 74.37 MS

55/28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2005 SCION TC
LEFT REAR PASSENGER PELVIS Y-AXIS ACCELERATION

TEST NUMBER: 041020

FMYSS 214 LEFT SIDE IMPACT



CHANNEL: PEVYG4 FILTER: FIR 100

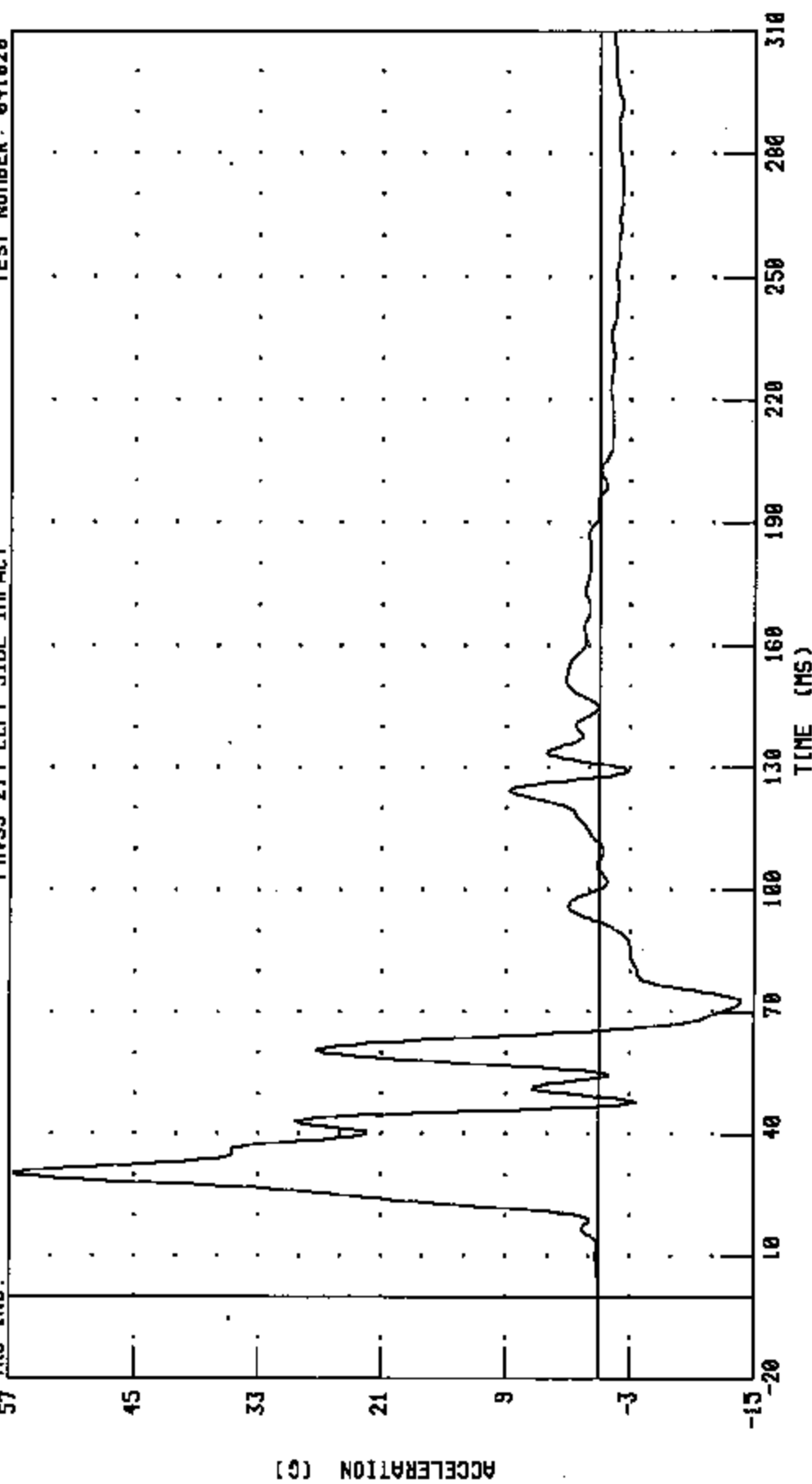
PEAK DATA: 42.83 G @ 46.25 MS, -5.76 G @ 161.25 MS

55/20 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2005 SCION TC
DRIVER UPPER RIB Y-AXIS REDUNDANT ACCELERATION

TRC INC.

FMVSS 214 LEFT SIDE IMPACT

TEST NUMBER: 041020



CHANNEL: LURYR1 FILTER: FIR 100

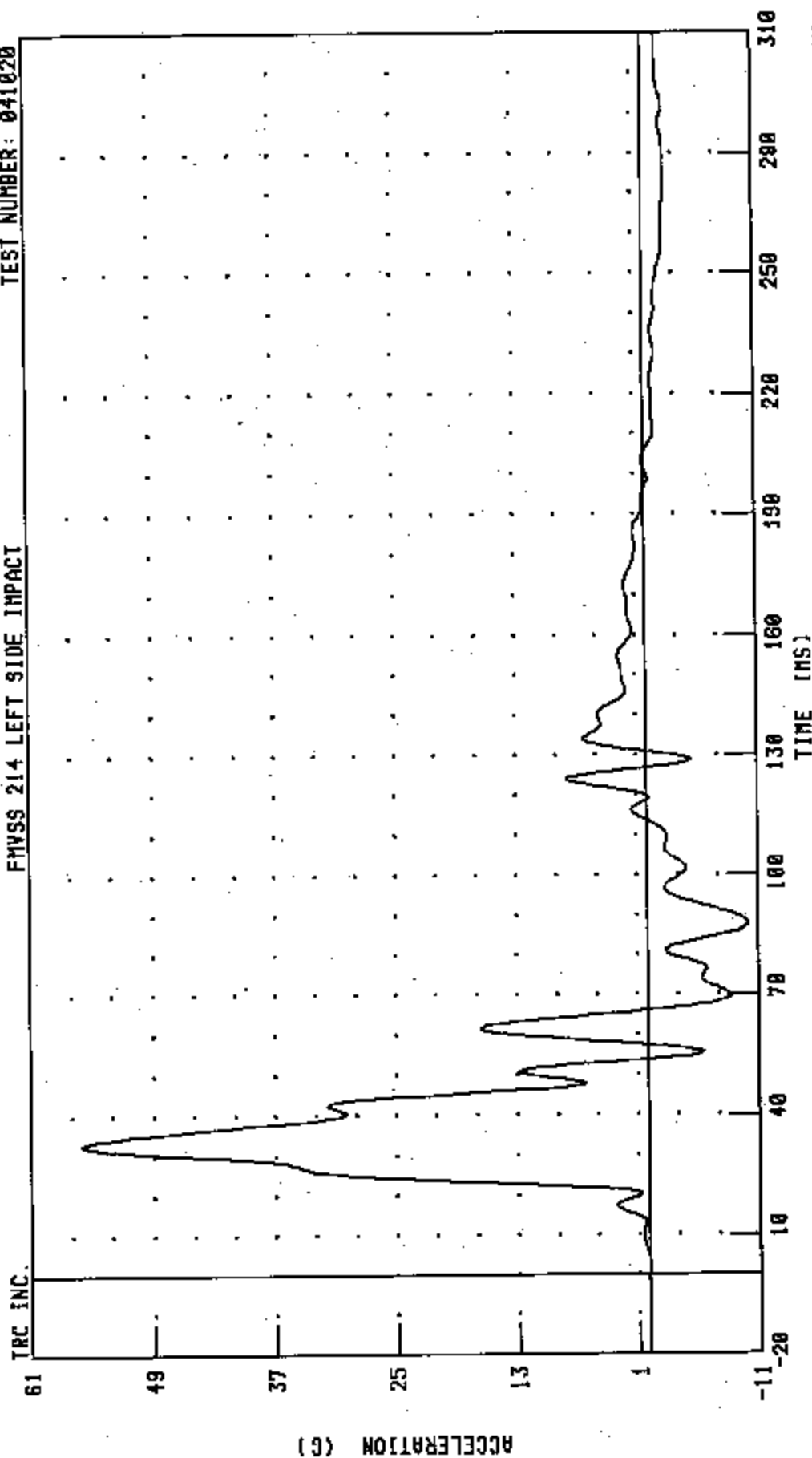
PEAK DATA: 56.61 G @ 30.62 MS; -13.73 G @ 72.50 MS

55/28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2885 SCION TC

DRIVER LOWER RIB Y-AXIS REDUNDANT ACCELERATION

FMVSS 214 LEFT SIDE IMPACT

TEST NUMBER: 041020



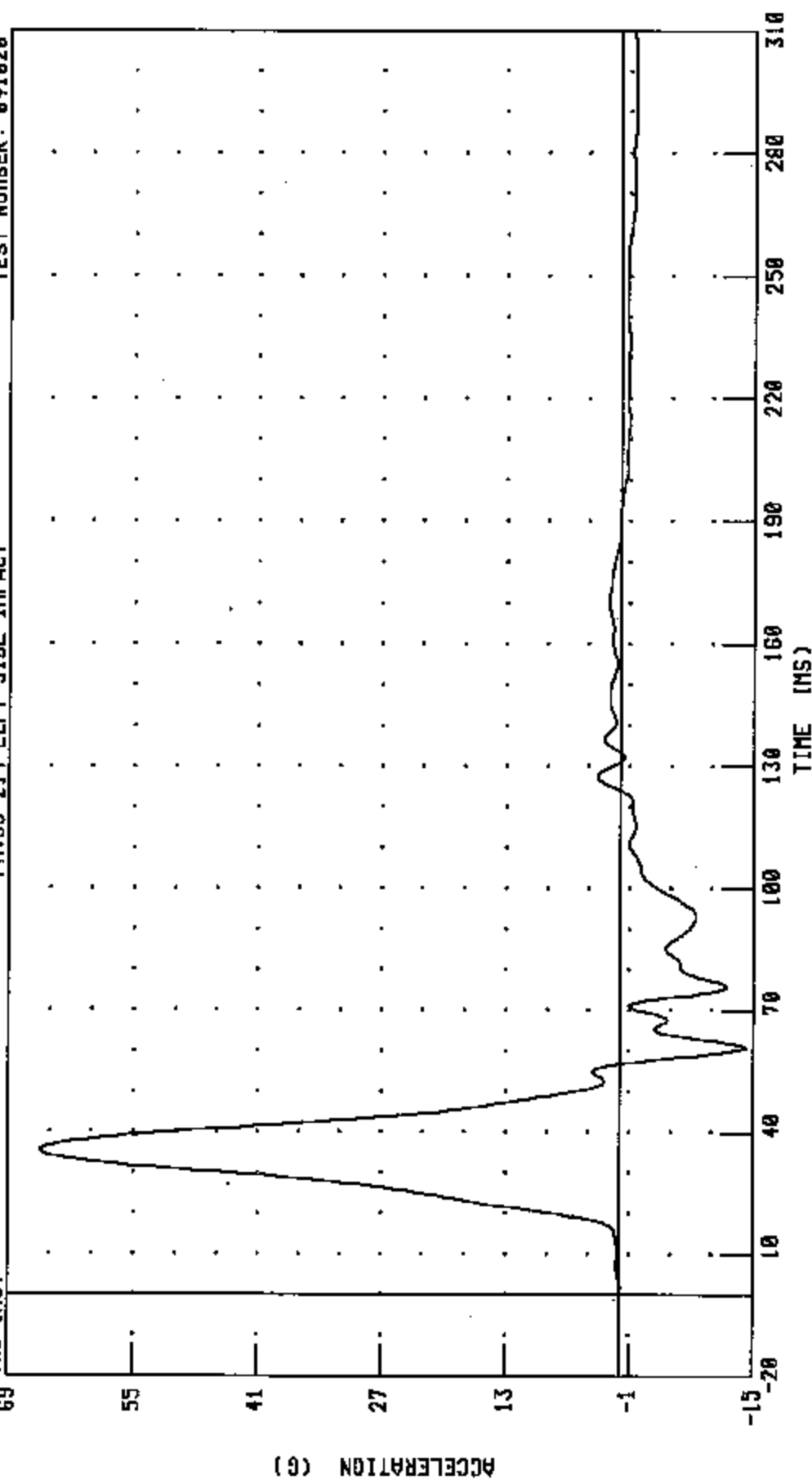
CHANNEL: LLRYR1 FILTER: FIR 100

55/28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2005 SCION TC
DRIVER LOWER SPINE Y-AXIS REDUNDANT ACCELERATION

TRC INC.

FMVSS 214 LEFT SIDE IMPACT

TEST NUMBER: 041020



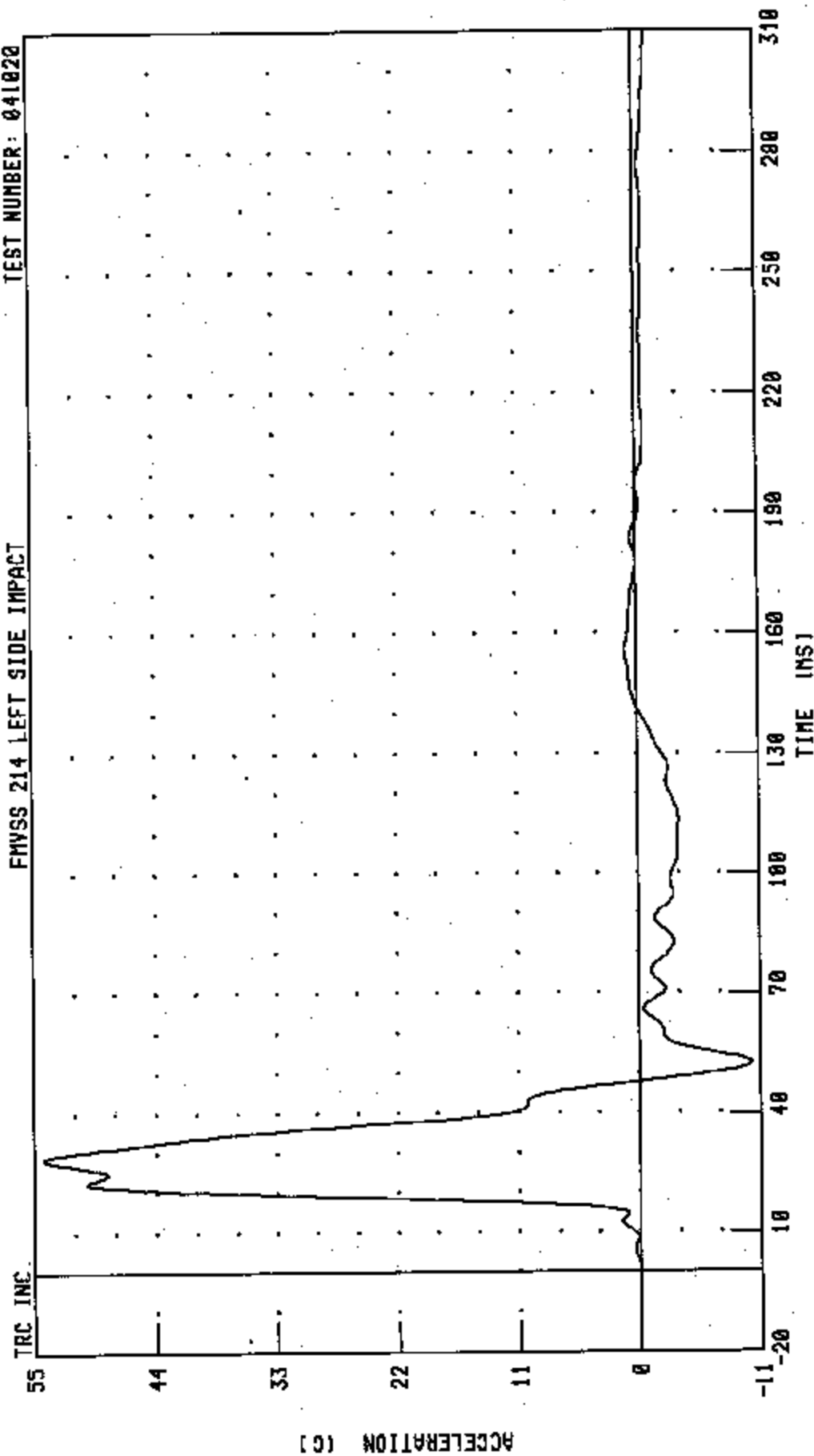
CHANNEL: TL2YR1 FILTER: FIR 100

PEAK DATA: 65.45 G @ 35.63 MS, -14.16 G @ 50.62 MS

55/28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2005 SCION TC
 DRIVER PELVIS Y-AXIS REDUNDANT ACCELERATION

TEST NUMBER: 041020

FMVSS 214 LEFT SIDE IMPACT



CHANNEL: PEVYR1 FILTER: FIR 100

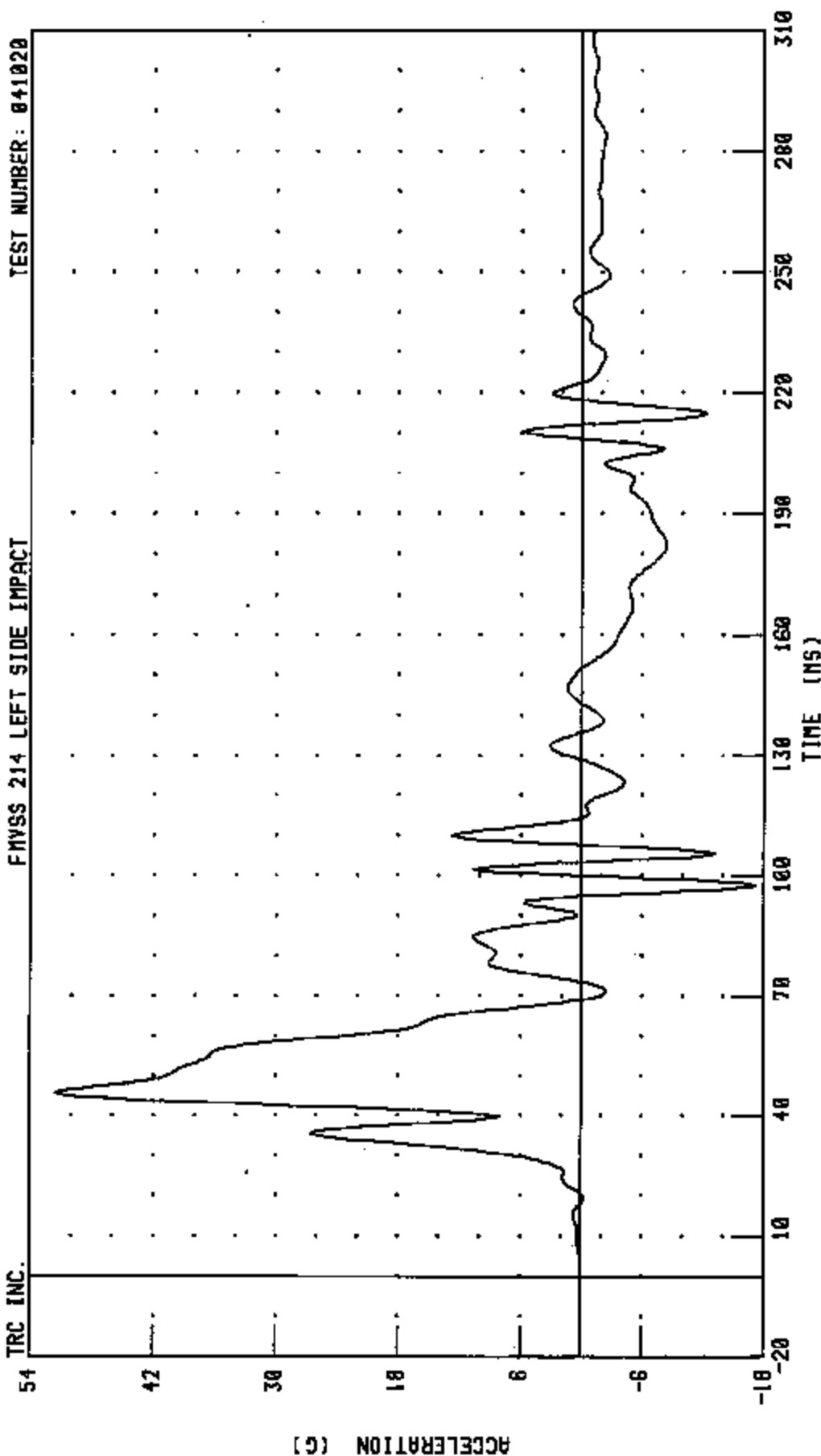
PEAK DATA: 54.16 G @ 28.75 MS; -10.19 G @ 52.50 MS

55/20 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2005 SCION TC
LEFT REAR PASSENGER UPPER RIB Y-AXIS REDUNDANT ACCELERATION

TRC INC.

FMVSS 214 LEFT SIDE IMPACT

TEST NUMBER: 041020



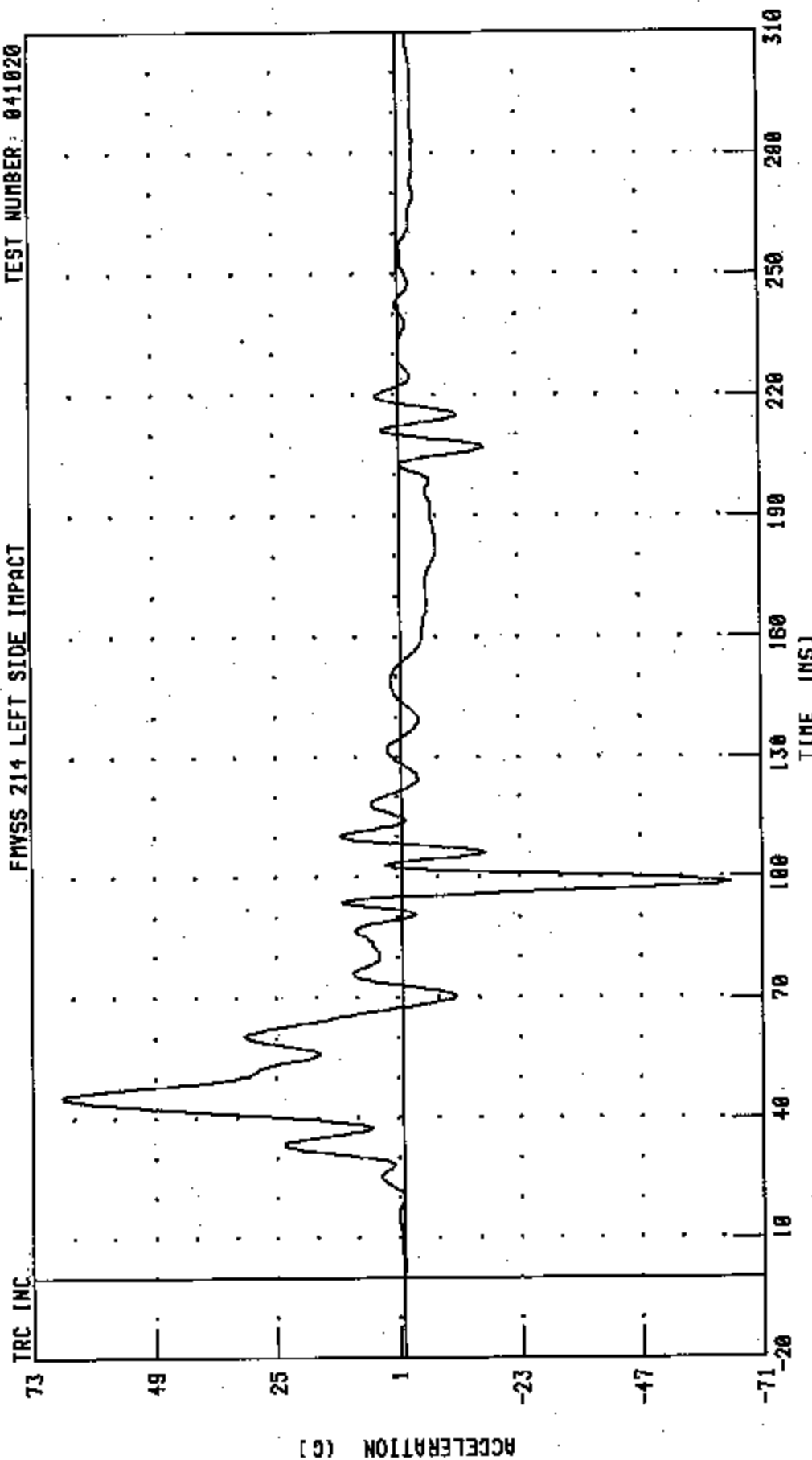
CHANNEL: LURYR4 FILTER: FIR 100

PEAK DATA: 51.53 G @ 45.62 MS, -17.17 G @ 97.50 MS

55/28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2005 SCION TC
LEFT REAR PASSENGER LOWER RIB Y-AXIS REDUNDANT ACCELERATION

TEST NUMBER: 041020

FMVSS 214 LEFT SIDE IMPACT



CHANNEL: LLRYR4 FILTER: FIR 100

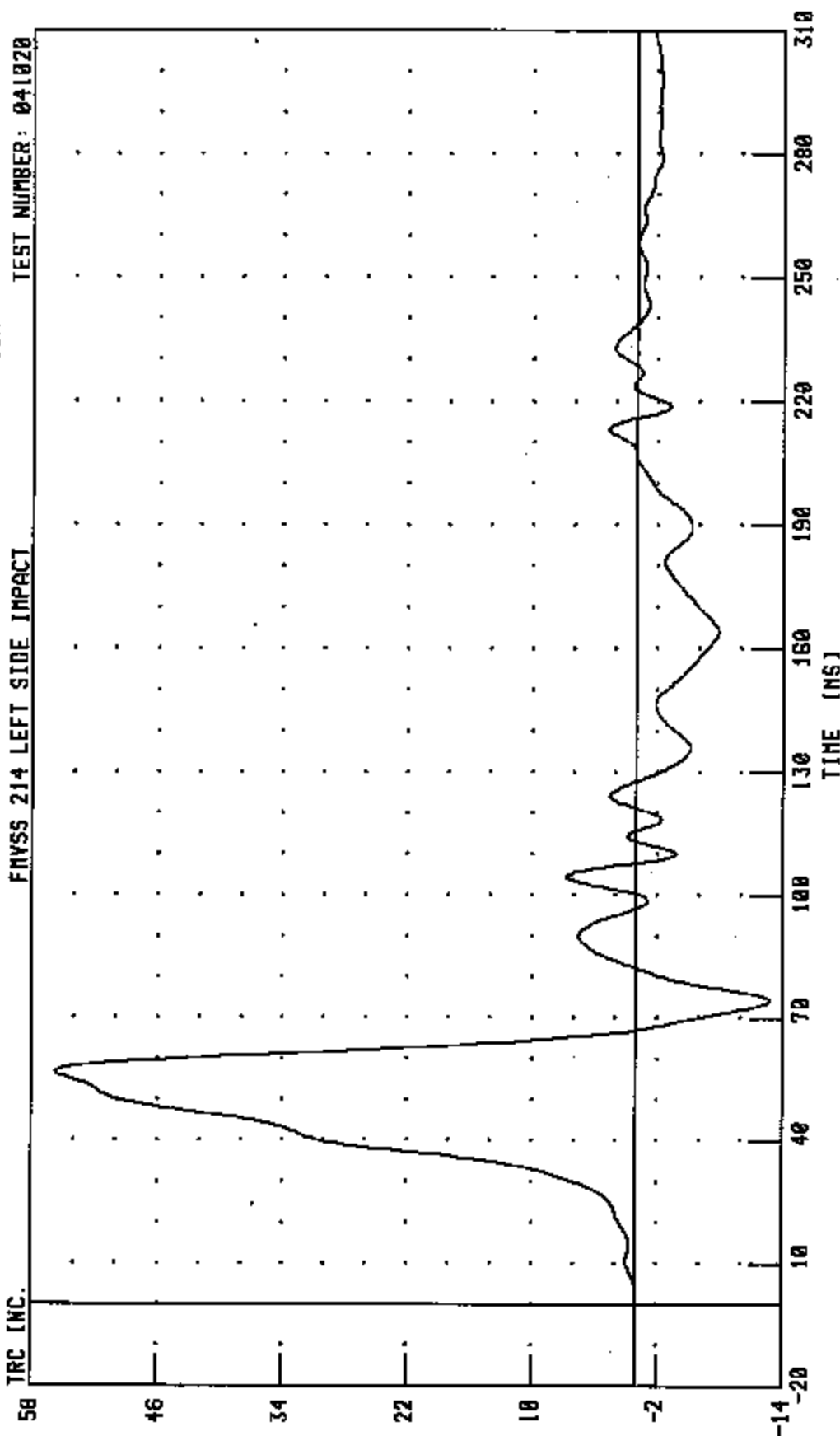
PEAK DATA: 67.15 G @ 45.00 MS, -64.71 G @ 98.75 MS

55/20 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2005 SCION TC
LEFT REAR PASSENGER LOWER SPINE Y-AXIS REDUNDANT ACCELERATION

TRC INC.

FNVS 214 LEFT SIDE IMPACT

TEST NUMBER: 041020



CHANNEL: T12YR4 FILTER: FIR 100

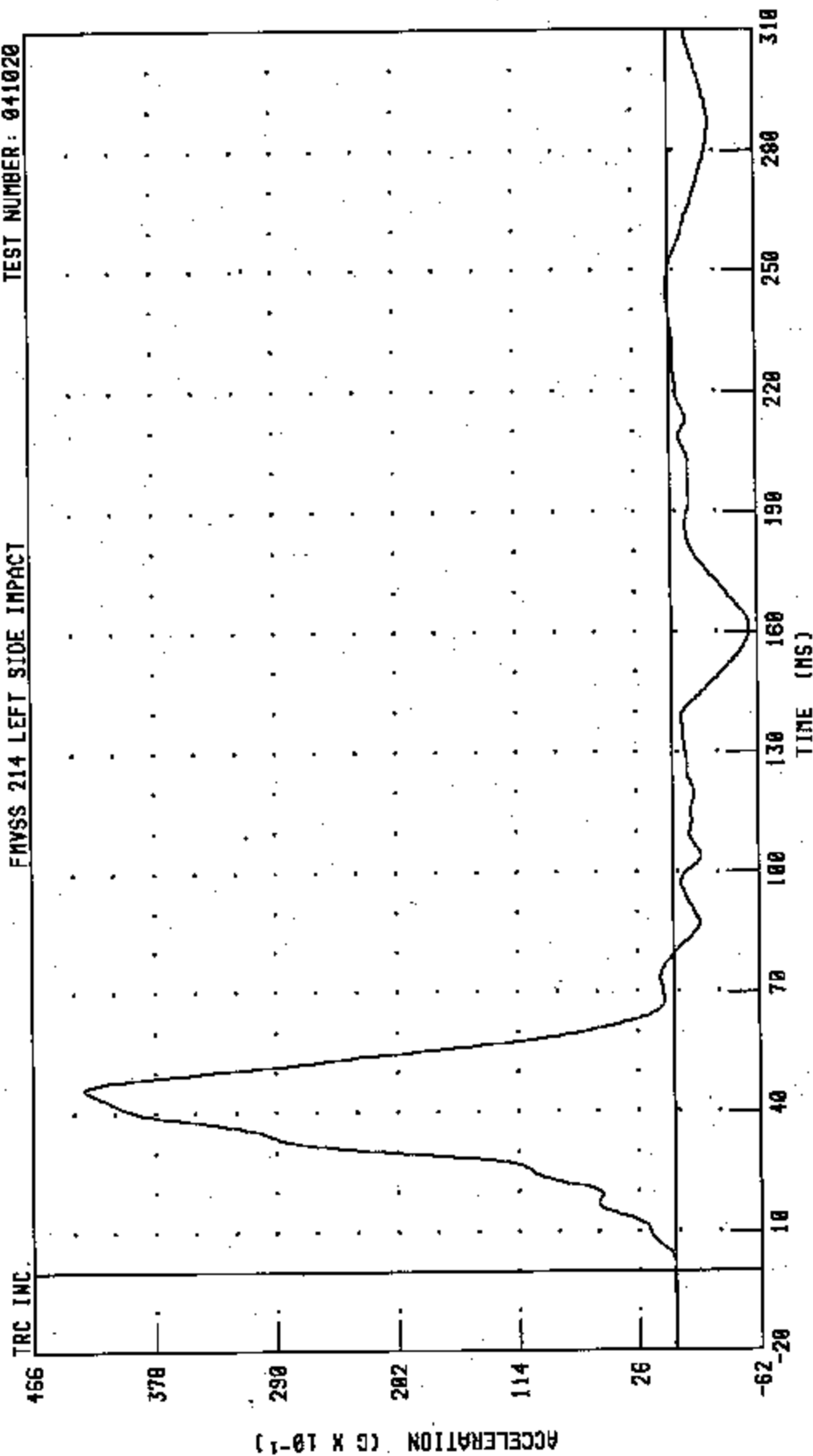
PEAK DATA: 55.82 G @ 56.87 MS, -12.79 G @ 74.37 MS

(G) ACCELERATION

55/28 KPH 90 DEGREE SIDE IMPACT (MOVING DEFORMABLE BARRIER) INTO LEFT SIDE OF 2085 SCION TC
LEFT REAR PASSENGER PELVIS Y-AXIS REDUNDANT ACCELERATION

TEST NUMBER: 041020

FWSS 214 LEFT SIDE IMPACT



CHANNEL: PEYR4 FILTER: FIR 100

PEAK DATA: 42.89 G @ 46.25 MS, -5.65 G @ 161.25 MS

Appendix C

SID HII Configuration and Performance Verification Data

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

Date: 09/14/04-10/28/04 TRC Inc. Test Number: S/N906 & S/N055
Laboratory Technician: V. Olivieri

Test Parameter	Specification	SID HIII 906		SID HIII 055	
		Pre-Test	Post-Test	Pre-Test	Post-Test
SH - Seated Height (mm)	889-909	895	894	907	905
RH - Rib Height (mm)	502-520	507	508	515	513
HP - Hip Pivot Height (mm)	99 ref	99.1	99.1	99.1	99.1
KH - Knee Pivot from Back Line (mm)	511-526	524	524	522	523
KV - Knee Pivot to Floor (mm)	490-505	494	494	495	495
HW - Hip Width (mm)	356-391	385	382	368	370
Thorax Impacts					
Temperature (°C)	18.9-25.5	21.3	21.1	21.2	21.3
Relative Humidity (%)	10-70	50	53	32	53
Probe Speed (m/s)	4.27-4.33	4.32	4.31	4.31	4.31
Upper Rib (g's)	37-46	42.8	42.9	42.8	41.6
Lower Rib (g's)	37-46	43.3	43.5	41.7	39.6
Lower Spine (g's)	15-22	18.5	17.6	19.3	20.2
Pelvis Impacts					
Temperature (°C)	18.9-25.5	21.2	21.2	21.4	21.3
Relative Humidity (%)	10-70	49	51	31	52
Probe Speed (m/s)	4.27-4.33	4.31	4.31	4.32	4.31
Pelvis (g's)	40-60	52.4	50.9	45.8	44.4

Calibration Test Results

Pre-Test

SID IIII: 906

Configured for Left Side Impact

External Dimensions:	The dummy passed all external dimension requirements.
Lateral Head Drop Test:	The head passed all lateral drop test requirements.
Lateral Neck Test:	The neck passed all impact test requirements.
Lateral Thorax Impact Test:	The 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 (was tested on September 21, 2004 for a previous calibration series).

Transportation Research Center Inc.
SID/HIII Dummy
External Dimensions
Serial No. 906 Calibration No. 08
Date: 09/29/04

Test Parameter	Dimension	Specification	Results	Pass
Seated Height	SH	889.0 - 909.3 mm	895 mm	Yes
Rib Height	RH	501.7 - 520.7 mm	507 mm	Yes
Hip Pivot Height	HP	99.1 REF mm	99.1 mm	
Knee Pivot From Backline	KH	510.5 - 525.8 mm	524 mm	Yes
Knee Pivot From Floor	KV	490.2 - 505.5 mm	494 mm	Yes
Hip Width	HW	355.6 - 391.2 mm	385 mm	Yes
Top Rib Width From C/L	RW-1	165.1 - 180.3 mm	178 mm	Yes
Bottom Rib Width From C/L	RW-2	165.1 - 180.3 mm	178 mm	Yes
Difference Between Top & Bottom Rib Width from C/L		$\leq$ 2.5 mm	0.0 mm	Yes

Technician

Kenneth Quinn

Approved

Paul H. Johnson

TRE

Transportation Research Center Inc.

572M Left Lateral Head Test

SID HIII Serial No. 906 Calibration No. 08 - 8

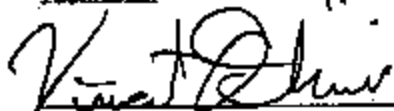
Test Date 10/05/2004

Test Parameter	Specification	Test Results	Pass
Temperature	18.9 - 25.6 °C	21.2 °C	Yes
Relative Humidity	10 - 70 %	28 %	Yes
Peak Resultant Acceleration	120 - 150 g	122.7 g	Yes
Peak Longitudinal Acceleration	15 g Max	6.5 g	Yes
Is Acceleration Curve Unimodal?	Yes	Yes	Yes

Test meets specifications.

Comments:

Technician



Approved



10.05.2004 14:42:41 610

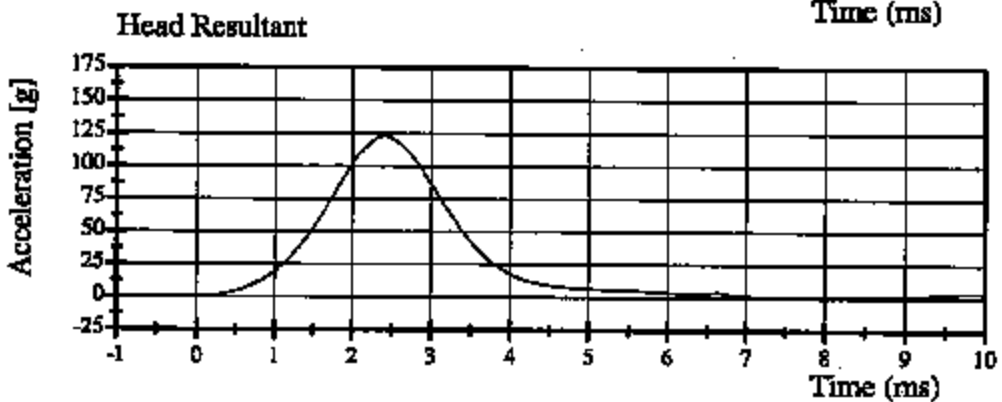
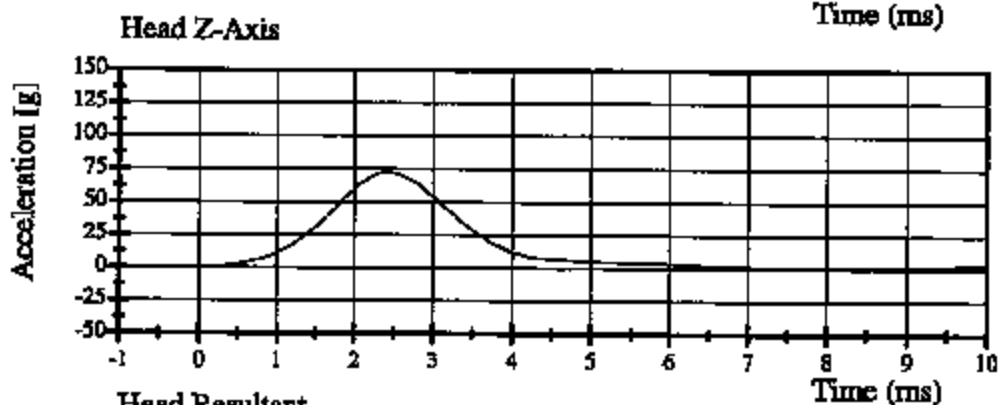
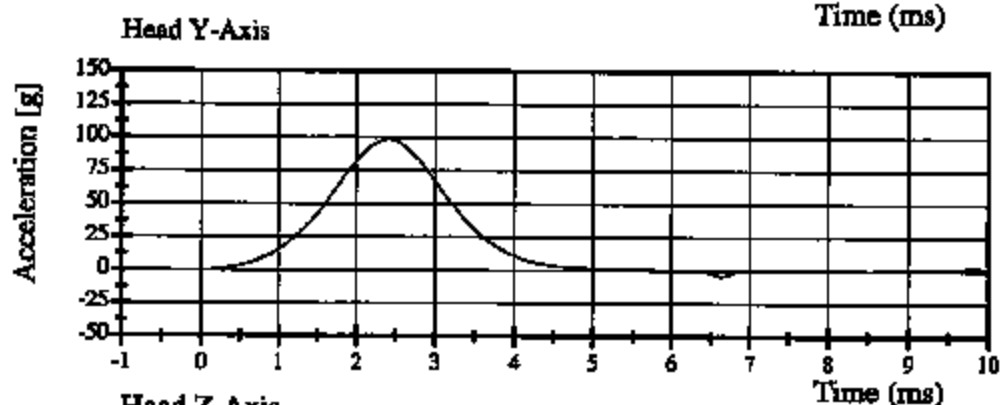
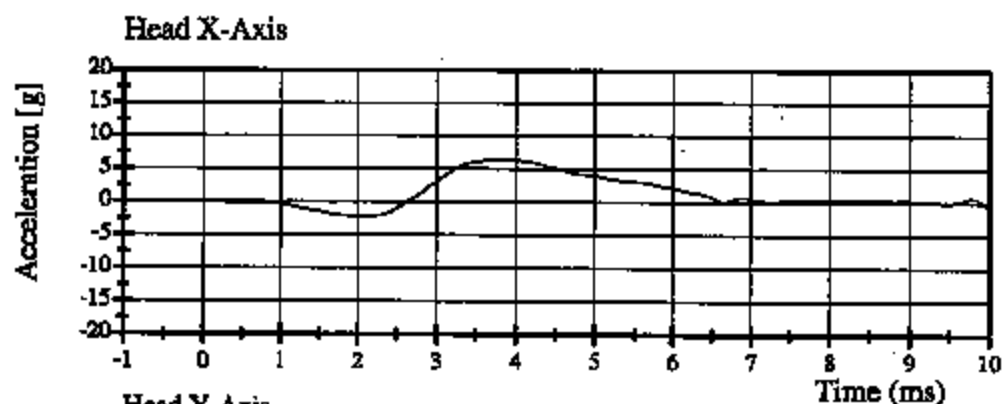
TRE

Transportation Research Center Inc.

572M Left Lateral Head Test

SID HIII Serial No. 906 Calibration No. 08 - 8

Test Date 10/05/2004



10.05.2004 14:42:42 610



Transportation Research Center Inc.

572M Left Lateral Neck Test

SID HHH Serial No. 906 Calibration No. 08 - 1

Test Date 09/28/2004

Test Parameter	Specification	Test Results	Pass
Temperature	20.6 - 22.2 °C	21.2 °C	Yes
Relative Humidity	10 - 70 %	51 %	Yes
Impact Velocity	6.89 - 7.13 m/s	7.01 m/s	Yes
Integrated Pendulum Velocity			
10 ms	1.96 - 2.55 m/s	2.32 m/s	Yes
20 ms	4.12 - 5.10 m/s	4.74 m/s	Yes
30 ms	5.73 - 7.01 m/s	6.66 m/s	Yes
40 - 70 ms	6.27 - 7.64 m/s	7.15 - 7.32 m/s	Yes
Peak D Plane Rotation	66 - 82 °	70.1 °	Yes
Rotation Decay Time To 0° From Peak Angle	58 - 67 °	58.0 °	Yes
Peak Moment About Occipital Condyles	73.0 - 88.0 N·m	76.4 N·m	Yes
Moment Decay Time To 0 N·m From Peak Moment	49 - 64 ms	56.6 ms	Yes
Time Between Peak Rotation and Peak Moment	2 - 16 ms	12.2 ms	Yes

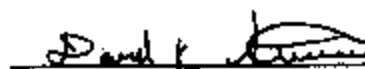
Test meets specifications.

Comments:

Technician



Approved



09.28.2004 07:27:09 514

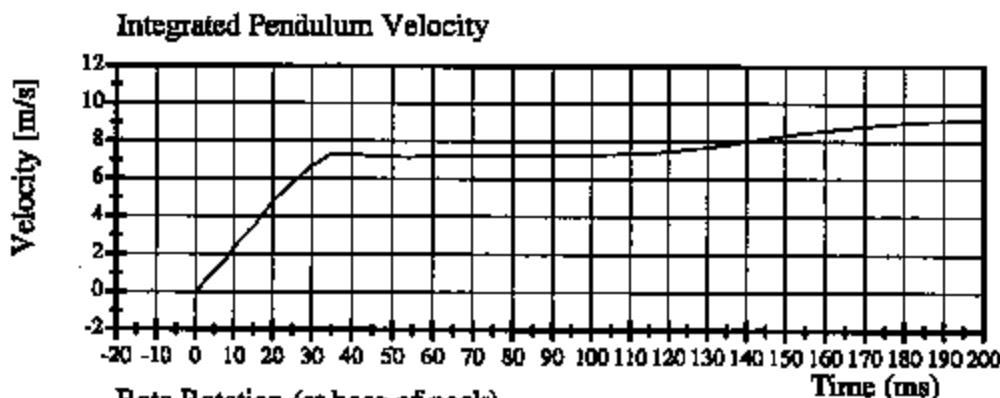
TRE

Transportation Research Center Inc.

572M Left Lateral Neck Test

SID III Serial No. 906 Calibration No. 08 - 1

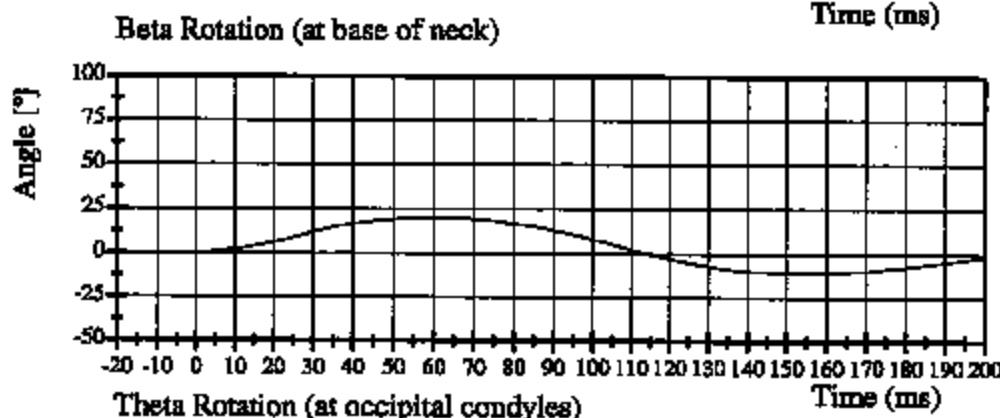
Test Date 09/28/2004



Filter Class: 180

Max: 9.4 m/s at 958.9 ms

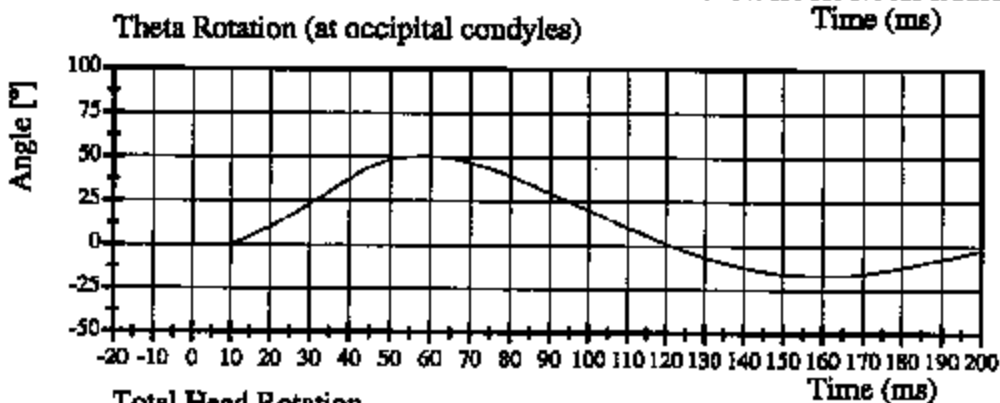
Min: -0.0 m/s at -0.5 ms



Filter Class: 60

Max: 20.0 ° at 63.0 ms

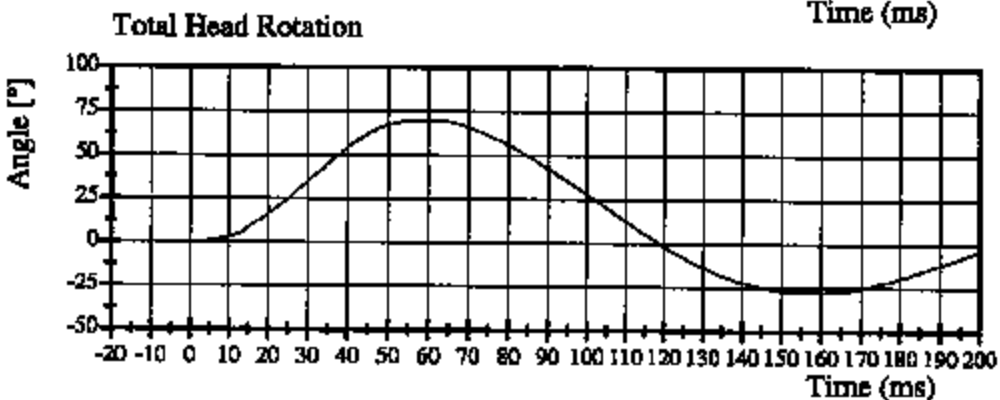
Min: -10.9 ° at 152.5 ms



Filter Class: 60

Max: 50.2 ° at 58.2 ms

Min: -16.6 ° at 159.9 ms



Filter Class: 60

Max: 70.1 ° at 61.0 ms

Min: -27.4 ° at 157.1 ms

09.28.2004 07:27:10 514

TRE

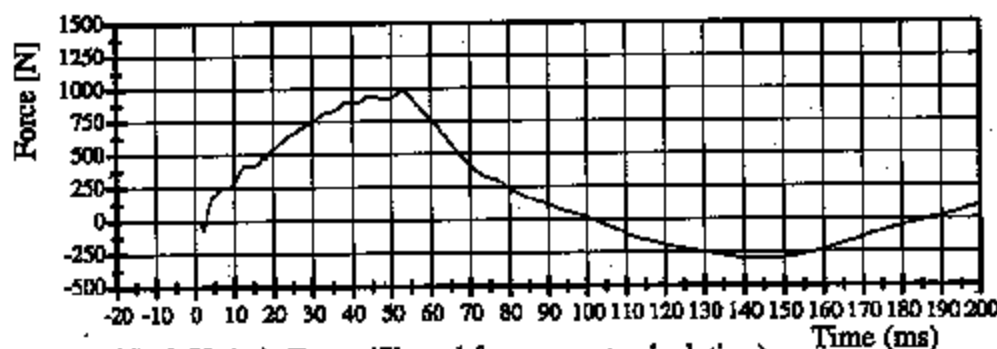
Transportation Research Center Inc.

572M Left Lateral Neck Test

SID HIII Serial No. 906 Calibration No. 08 - 1

Test Date 09/28/2004

Neck Y-Axis Force

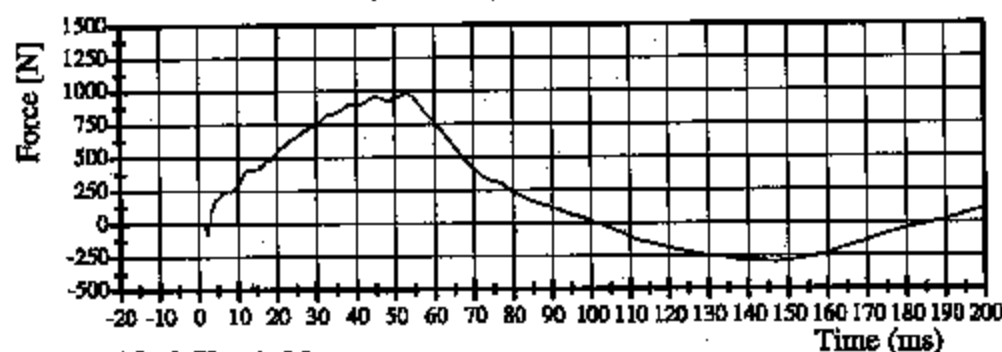


Filter Class: CFC 1000

Max: 980 N at 53.1 ms

Min: -299 N at 147.0 ms

Neck Y-Axis Force (filtered for moment calculation)

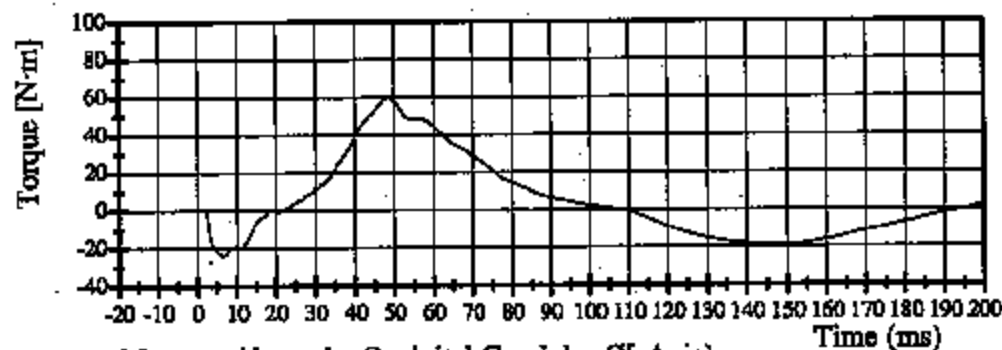


Filter Class: CFC 600

Max: 980 N-m at 53.0 ms

Min: -298 N-m at 147.0 ms

Neck X-axis Moment

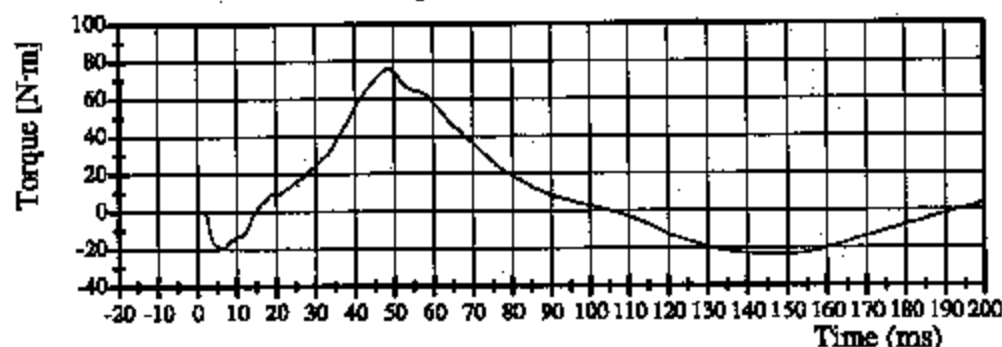


Filter Class: CFC 600

Max: 60.0 N-m at 48.7 ms

Min: -23.7 N-m at 6.4 ms

Moment About the Occipital Condyles (X-Axis)



Filter Class: 600

Max: 76.4 ° at 48.7 ms

Min: -23.9 ° at 147.1 ms

09.28.2004 07:27:11 514

TRE

Transportation Research Center Inc.

572F Left Thorax Test

SID HIII Serial No. 906 Calibration No. 08 - 1

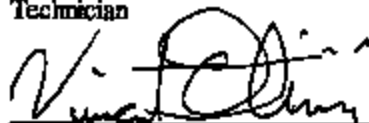
Test Date 09/29/2004

Test Parameter	Specification	Test Results	Pass
Temperature	18.9 - 25.5 C	21.3 C	Yes
Relative Humidity	10 - 70 %	50 %	Yes
Pendulum Velocity	4.27 - 4.33 m/sec	4.32 m/sec	Yes
Upper Rib Bar Peak Acceleration	37 - 46 g	42.8 g	Yes
Lower Rib Bar Peak Acceleration	37 - 46 g	43.3 g	Yes
Lower Thoracic Spine (T12) Peak Acceleration	15 - 22 g	18.5 g	Yes

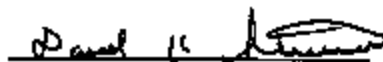
Test meets specifications.

Comments:

Technician



Approved



09.29.2004 11:28:41 1136

TRE

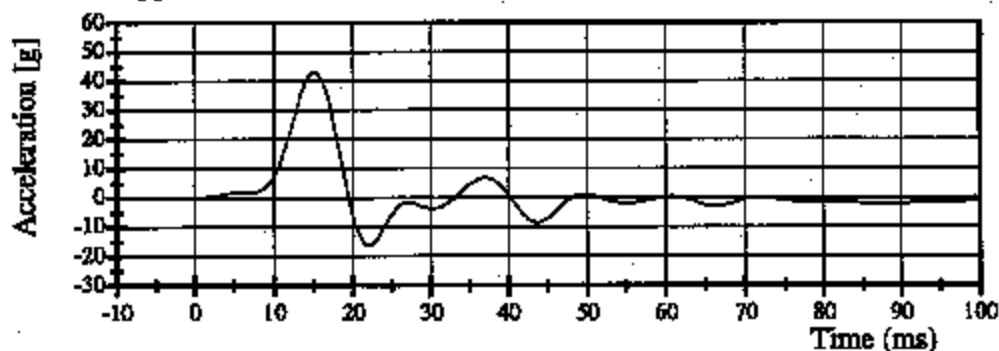
Transportation Research Center Inc.

572F Left Thorax Test

SID III Serial No. 906 Calibration No. 08 - 1

Test Date 09/29/2004

Upper Rib Bar Acceleration

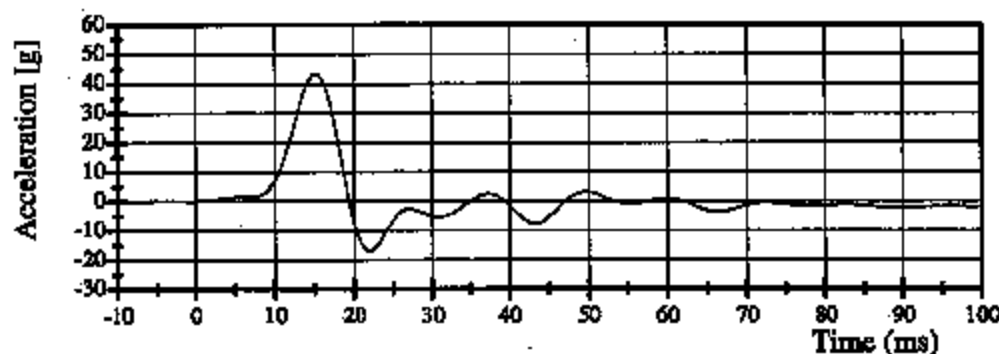


Filter Class: FIR 100

Max: 42.8 g at 14.9 ms

Min: -16.3 g at 21.8 ms

Lower Rib Bar Acceleration

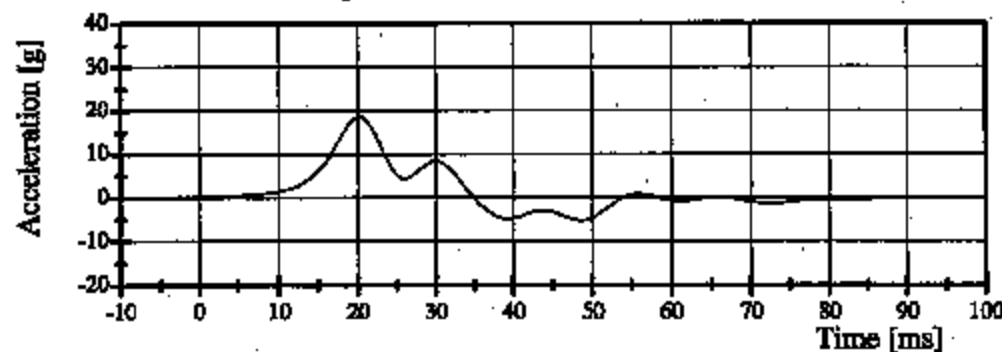


Filter Class: FIR 100

Max: 43.3 g at 15.4 ms

Min: -17.0 g at 21.8 ms

Lower Thoracic Spine (T12) Acceleration



Filter Class: FIR 100

Max: 18.5 g at 20.4 ms

Min: -5.2 g at 48.6 ms

09.29.2004 11:28:43 1136



Transportation Research Center Inc.

572F Damper Test

SID HIII Serial No. 906 Calibration No. 08 - A1

Test Date 09/21/2004

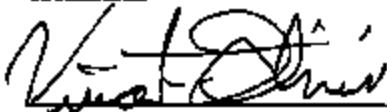
Test Parameter	Specification	Test Results	Pass
Temperature	18.9 - 25.5 C	21.4 C	Yes
Relative Humidity	10 - 70 %	45 %	Yes
Pendulum Velocity		2.70 m/sec	
Maximum Force at Test Velocity	647 - 902 N	741 N	Yes
Maximum Displacement at Test Velocity	29.6 - 34.4 mm	32.2 mm	Yes

Test meets specifications.

Comments:

Damper Setting : 7.0

Technician



Approved



09.21.2004 09:22:52 1572



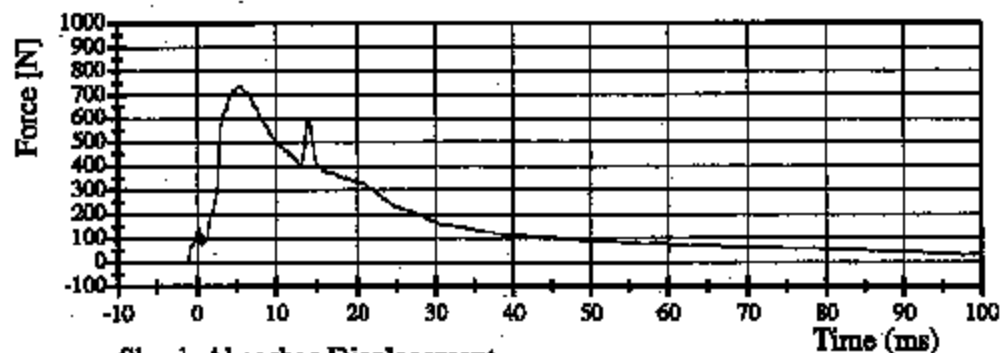
Transportation Research Center Inc.

572F Damper Test

SID HIII Serial No. 906 Calibration No. 08 - A1

Test Date 09/21/2004

Shock Absorber Resistive Force

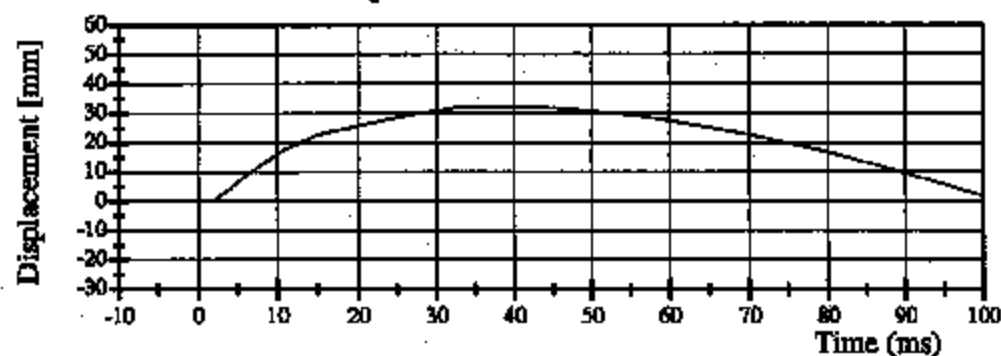


Filter Class: 1000

Max: 741 N at 5.6 ms

Min: -2205 N at 102.2 ms

Shock Absorber Displacement



Filter Class: 1000

Max: 32.2 mm at 38.3 ms

Min: -1.0 mm at 103.5 ms

09/21/2004 09:22:53 1572



Transportation Research Center Inc.

572F Damper Test

SID HIII Serial No. 906 Calibration No. 08 - B1

Test Date 09/21/2004

Test Parameter	Specification	Test Results	Pass
Temperature	18.9 - 25.5 C	21.3 C	Yes
Relative Humidity	10 - 70 %	47 %	Yes
Pendulum Velocity		4.27 m/sec	
Maximum Force at Test Velocity	1736 - 2099 N	1840 N	Yes
Maximum Displacement at Test Velocity	31.7 - 37.2 mm	36.7 mm	Yes

Test meets specifications.

Comments:

Damper Setting : 7.0

Technician



Approved



09.21.2004 09:14:14 1208

TRE

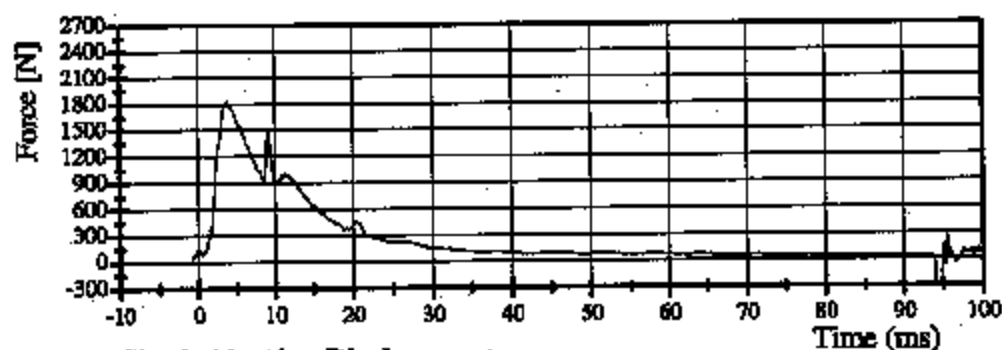
Transportation Research Center Inc.

572F Damper Test

SID HIII Serial No. 906 Calibration No. 08 - B1

Test Date 09/21/2004

Shock Absorber Resistive Force

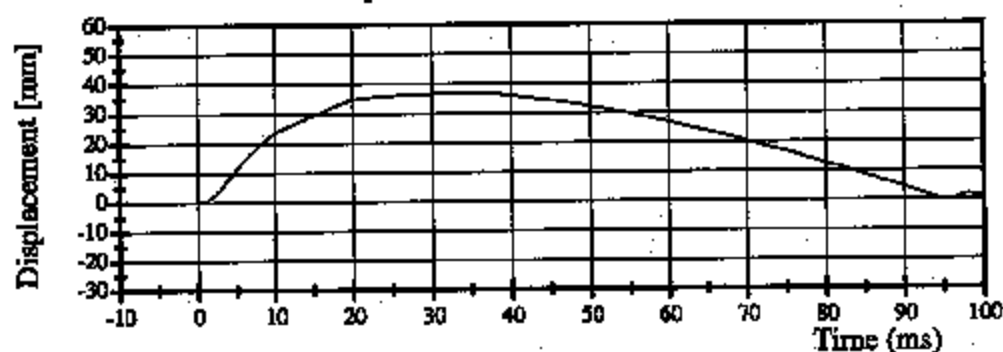


Filter Class: 1000

Max: 1840 N at 3.7 ms

Min: -2254 N at 94.4 ms

Shock Absorber Displacement



Filter Class: 1000

Max: 36.7 mm at 32.6 ms

Min: -0.3 mm at 95.4 ms

09.21.2004 09:14:15 1208

TRE

Transportation Research Center Inc.

572F Damper Test

SID HIII Serial No. 906 Calibration No. 08 - C6

Test Date 09/21/2004

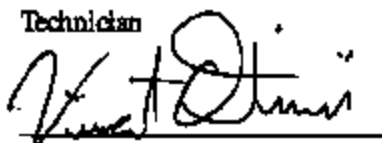
Test Parameter	Specification	Test Results	Pass
Temperature	18.9 - 25.5 C	21.4 C	Yes
Relative Humidity	10 - 70 %	46 %	Yes
Pendulum Velocity		6.07 m/sec	
Maximum Force at Test Velocity	3712 - 4402 N	3994 N	Yes
Maximum Displacement at Test Velocity	33.3 - 39.5 mm	38.3 mm	Yes

Test meets specifications.

Comments:

Damper Setting : 7.0

Technician



Approved



09.21.2004 09:02:55 1037



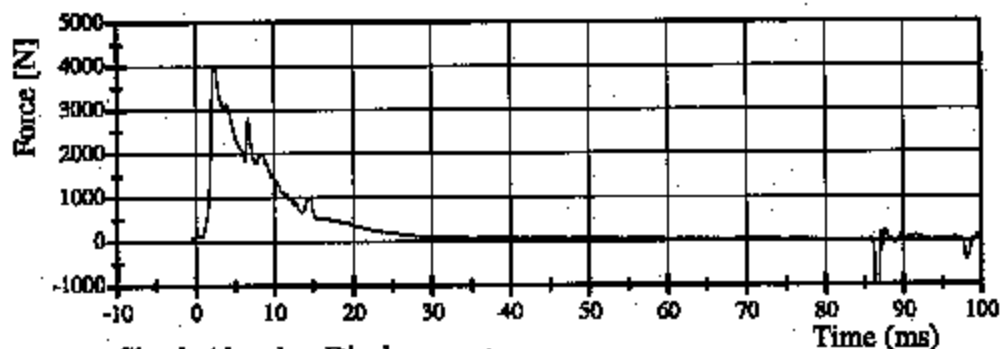
Transportation Research Center Inc.

572F Damper Test

SID HIII Serial No. 906 Calibration No. 08 - C6

Test Date 09/21/2004

Shock Absorber Resistive Force

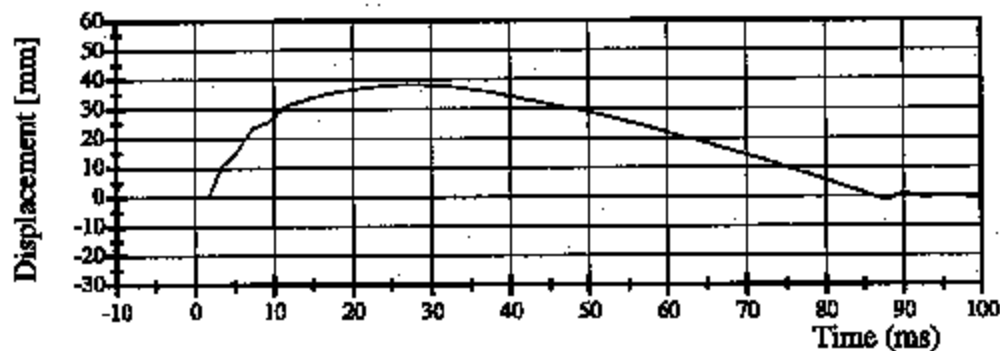


Filter Class: 1000

Max: 3994 N at 2.6 ms

Min: -2033 N at 86.6 ms

Shock Absorber Displacement



Filter Class: 1000

Max: 38.3 mm at 27.0 ms

Min: -1.3 mm at 87.8 ms

09.21.2004 09:02:56 1037



TRANSPORTATION RESEARCH CENTER INC.

PART 572B LUMBAR FLEXION TEST

SID/HIII

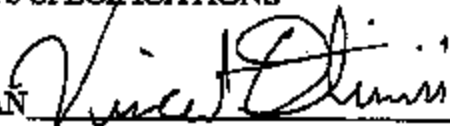
CAL DATE: 13-Sep-04

TRC, INC. TEST NO: LF90608TF2 572M SN 906 TORSO FLEX CAL 08

TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE	18.9 - 25.6° C	21.2°C
RELATIVE HUMIDITY	10 - 70 %	61 %
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	173.5 N
FORCE AT 40 DEG OF FLEXION	205 - 258 N	222.4 N
NET RETURN ANGLE AFTER 3 MINUTES	< 12 °	3.2 °

TEST MEETS SPECIFICATIONS

TECHNICIAN



Transportation Research Center Inc.

572B Abdomen Compression Test

SID HIII Serial No. 906 Calibration No. 08 - 2

Test Date 09/14/2004

Test Parameter	Specification	Test Results	Pass
Temperature	18.9 - 25.5 °C	21.6 °C	Yes
Relative Humidity	10 - 70 %	59 %	Yes
Displacement Rate	6.35 - 8.89 mm/s	7.6 - 7.9 mm/s	Yes
Data Within Required Corridor	Yes	Yes	Yes

Test meets specifications.

Comments:

Technician



Approved



09.14.2004 07:24:33 2584

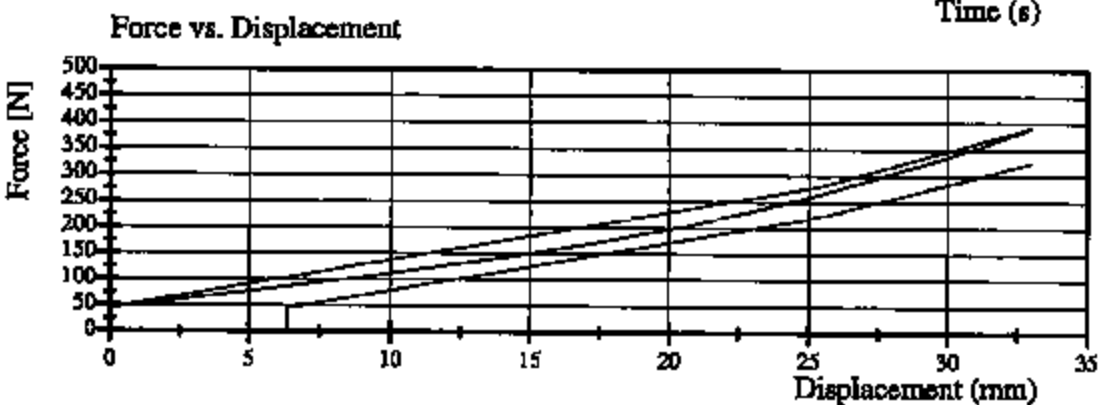
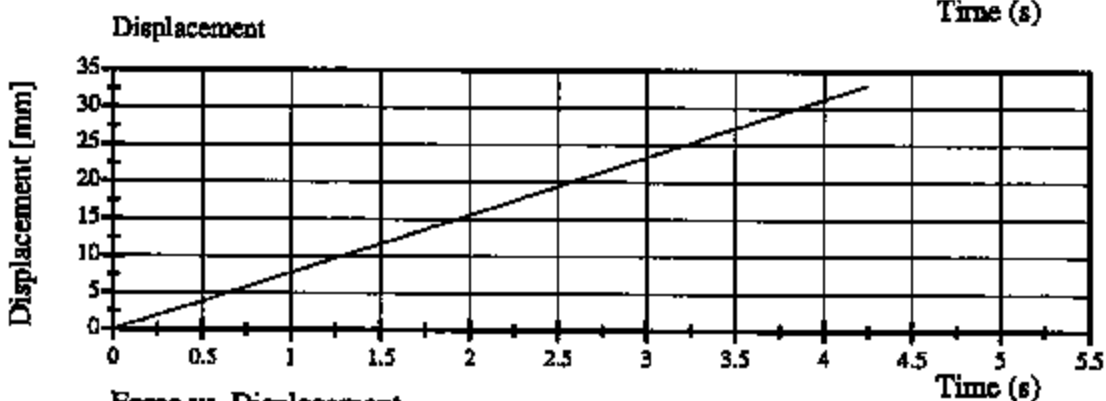
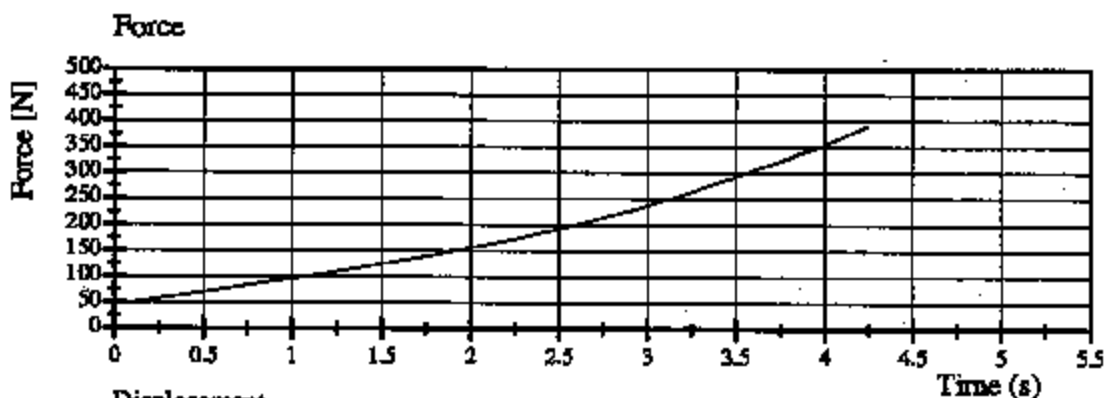
TRE

Transportation Research Center Inc.

572B Abdomen Compression Test

SID HIII Serial No. 906 Calibration No. 08 - 2

Test Date 09/14/2004



09.14.2004 07:24:34 2584



Transportation Research Center Inc.

572F Left Pelvis Test

SID HIII Serial No. 906 Calibration No. 08 - 1

Test Date 09/29/2004

Test Parameter	Specification	Test Results	Pass
Temperature	18.9 - 25.5 C	21.2 C	Yes
Relative Humidity	10 - 70 %	49 %	Yes
Pendulum Velocity	4.27 - 4.33 m/sec	4.31 m/sec	Yes
Pelvis Peak Acceleration	40 - 60 g	52.4 g	Yes
Time Above 20 g	3 - 7 ms	5.92 ms	Yes
Unimodal requirement for pelvis acceleration	Yes	Yes	Yes

Comments:

Technician



Approved



09.29.2004 11:11:59 1125

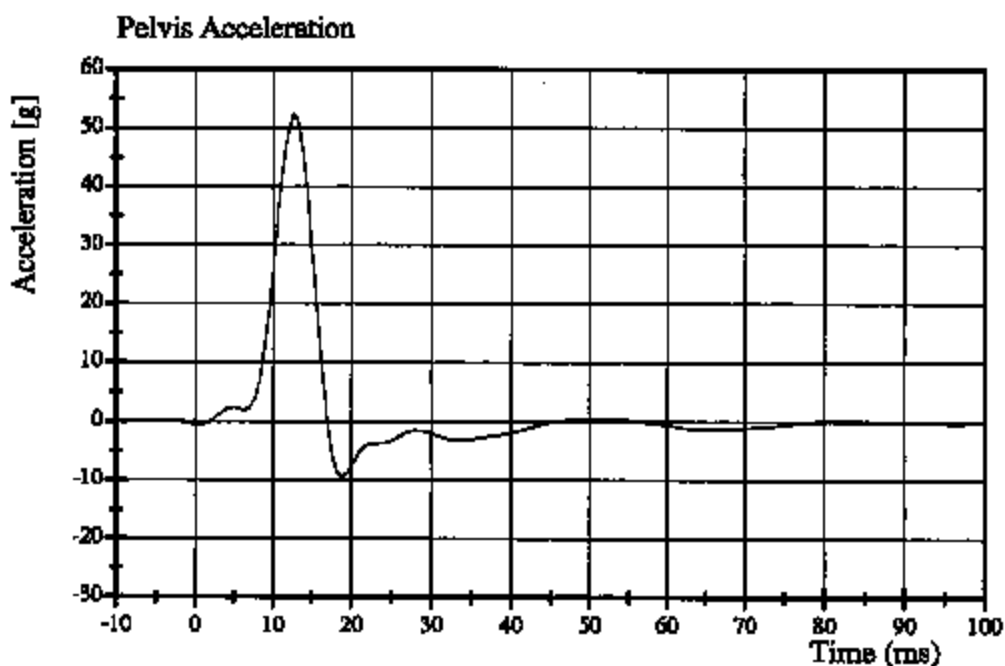


Transportation Research Center Inc.

572F Left Pelvis Test

SID HIII Serial No. 906 Calibration No. 08 - 1

Test Date 09/29/2004



Filter Class: FIR 100

Max: 52.4 g at 12.6 ms

Min: -9.5 g at 18.8 ms

09.29.2004 11:12:00 1125

TRE

Calibration Test Results

Pre-Test

SID HIII: 055

Configured for Left Side Impact

External Dimensions:	The dummy passed all external dimension requirements.
Lateral Head Drop Test:	The head passed all lateral drop test requirements.
Lateral Neck Test:	The neck passed all impact test requirements.
Lateral Thorax Impact Test:	The 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 (was tested on September 16, 2004 for a previous calibration series).

Transportation Research Center Inc.

SID/HIII Dummy

External Dimensions

Serial No. 055 Calibration No. 16

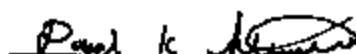
Date: 10/07/04

Test Parameter	Dimension	Specification	Results	Pass
Seated Height	SH	889.0 - 909.3 mm	907 mm	Yes
Rib Height	RH	501.7 - 520.7 mm	515 mm	Yes
Hip Pivot Height	HP	99.1 REF mm	99.1 mm	
Knee Pivot From Backline	KH	510.5 - 525.8 mm	522 mm	Yes
Knee Pivot From Floor	KV	490.2 - 505.5 mm	495 mm	Yes
Hip Width	HW	355.6 - 391.2 mm	368 mm	Yes
Top Rib Width From CL	RW-1	165.1 - 180.3 mm	177 mm	Yes
Bottom Rib Width From CL	RW-2	165.1 - 180.3 mm	177 mm	Yes
Difference Between Top & Bottom Rib Width from CL		<= 2.5 mm	0.0 mm	Yes

Technician



Approved



TRE

Transportation Research Center Inc.

572M Left Lateral Head Test

SID HHH Serial No. 055 Calibration No. 16 - 1

Test Date 10/06/2004

Test Parameter	Specification	Test Results	Pass
Temperature	18.9 - 25.6 °C	21.1 °C	Yes
Relative Humidity	10 - 70 %	31 %	Yes
Peak Resultant Acceleration	120 - 150 g	140.3 g	Yes
Peak Longitudinal Acceleration	15 g Max	5.2 g	Yes
Is Acceleration Curve Unimodal?	Yes	Yes	Yes

Test meets specifications.

Comments:

Technician

Vince Oliver

Approved

Daniel K. [Signature]

10.06.2004 12:57:47 611

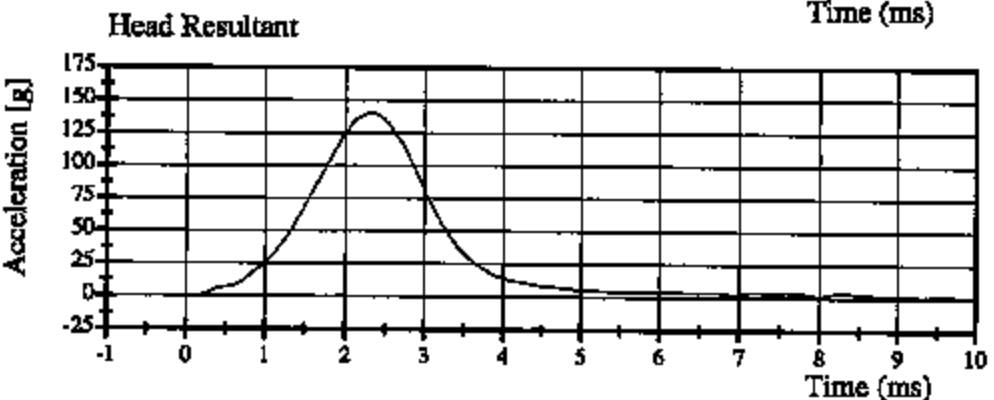
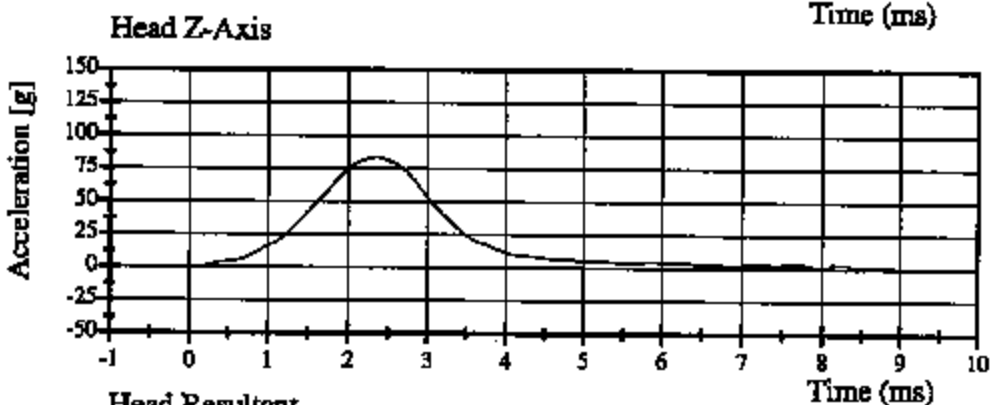
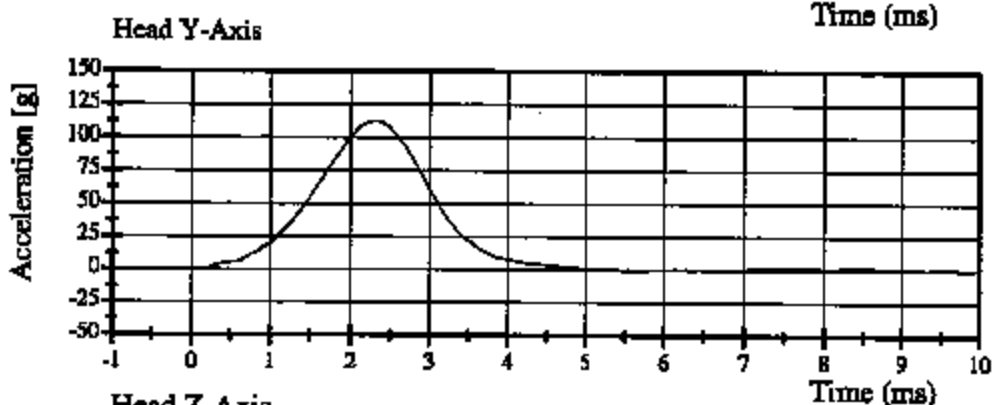
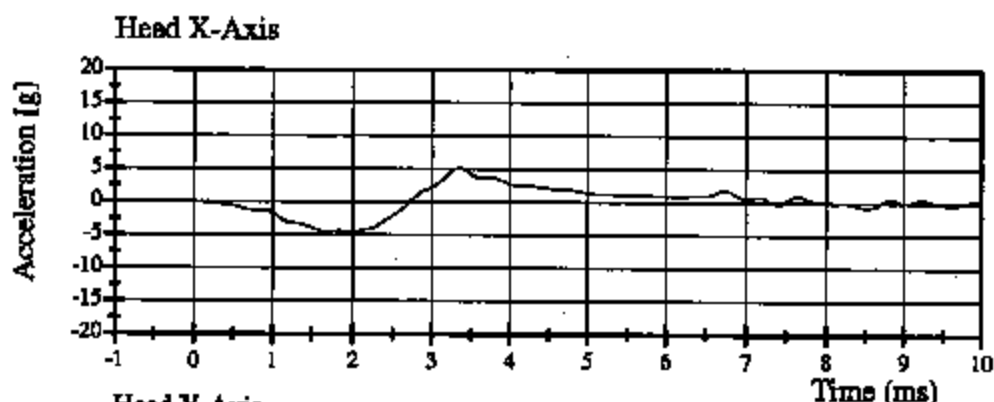
TRE

Transportation Research Center Inc.

572M Left Lateral Head Test

SID HIII Serial No. 055 Calibration No. 16 - 1

Test Date 10/06/2004



10.06.2004 12:57:48 611

TRE

Transportation Research Center Inc.

572M Left Lateral Neck Test

SID HIII Serial No. 055 Calibration No. 16 - 1

Test Date 10/07/2004

Test Parameter	Specification	Test Results	Pass
Temperature	20.6 - 22.2 °C	21.3 °C	Yes
Relative Humidity	10 - 70 %	32 %	Yes
Impact Velocity	6.89 - 7.13 m/s	6.97 m/s	Yes
Integrated Pendulum Velocity			
10 ms	1.96 - 2.55 m/s	2.25 m/s	Yes
20 ms	4.12 - 5.10 m/s	4.44 m/s	Yes
30 ms	5.73 - 7.01 m/s	6.38 m/s	Yes
40 - 70 ms	6.27 - 7.64 m/s	7.15 - 7.33 m/s	Yes
Peak D Plane Rotation	66 - 82 °	71.7 °	Yes
Rotation Decay Time To 0° From Peak Angle	58 - 67 °	59.0 °	Yes
Peak Moment About Occipital Condyles	73.0 - 88.0 N-m	80.3 N-m	Yes
Moment Decay Time To 0 N-m From Peak Moment	49 - 64 ms	56.2 ms	Yes
Time Between Peak Rotation and Peak Moment	2 - 16 ms	12.1 ms	Yes

Test meets specifications.

Comments:

Technician

Vincent Oliver

Approved

David H. Johnson

10.07.2004 08:33:58 519

TRE

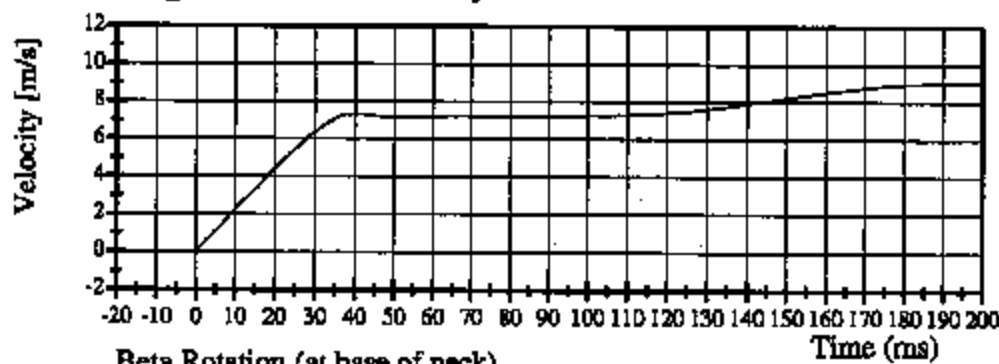
Transportation Research Center Inc.

572M Left Lateral Neck Test

SID IIII Serial No. 055 Calibration No. 16 - 1

Test Date 10/07/2004

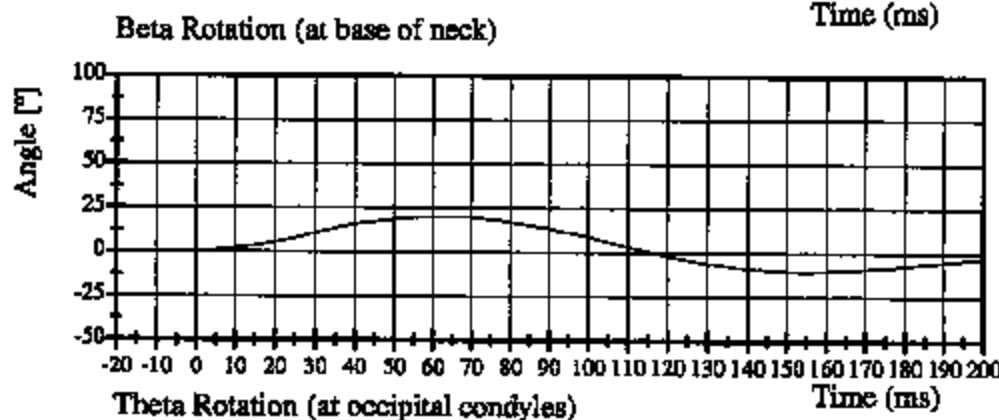
Integrated Pendulum Velocity



Filter Class: 180

Max: 9.3 m/s at 958.5 ms

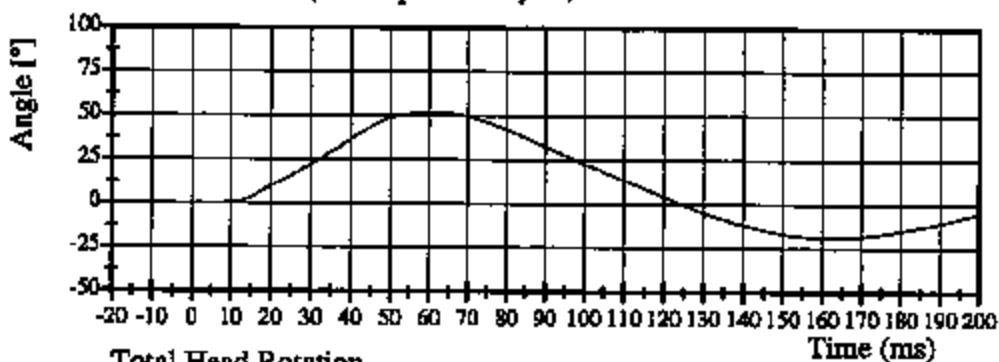
Min: -0.0 m/s at -0.8 ms



Filter Class: 60

Max: 20.1 ° at 65.0 ms

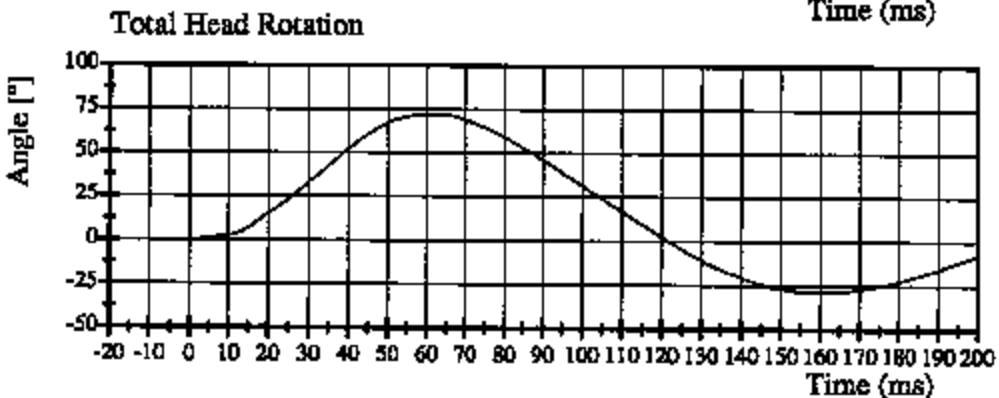
Min: -10.4 ° at 154.8 ms



Filter Class: 60

Max: 51.6 ° at 61.0 ms

Min: -18.8 ° at 163.5 ms



Filter Class: 60

Max: 71.7 ° at 62.7 ms

Min: -28.8 ° at 159.8 ms

10.07.2004 08:33:59 519

TRE

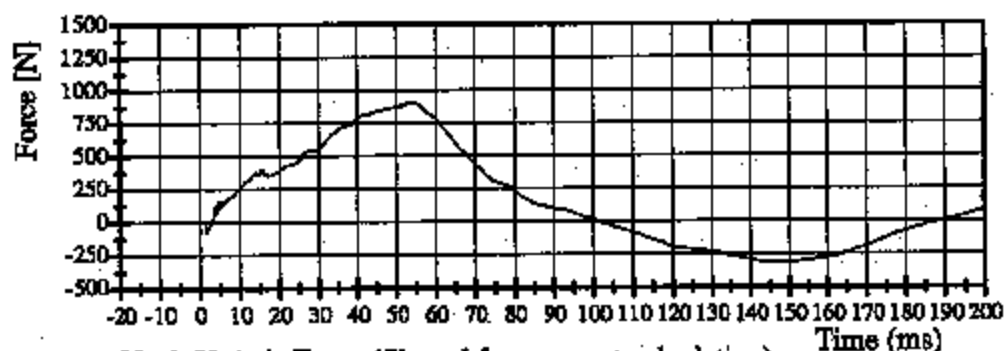
Transportation Research Center Inc.

572M Left Lateral Neck Test

SID IIII Serial No. 055 Calibration No. 16 - 1

Test Date 10/07/2004

Neck Y-Axis Force

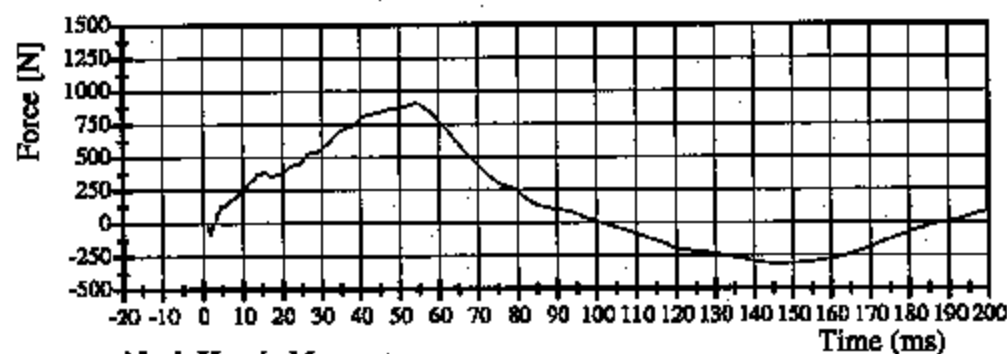


Filter Class: CFC 1000

Max: 910 N at 53.7 ms

Min: -312 N at 148.4 ms

Neck Y-Axis Force (filtered for moment calculation)

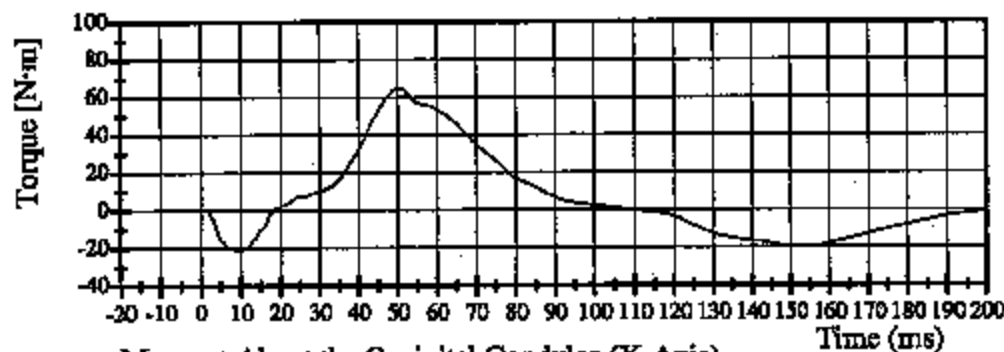


Filter Class: CFC 600

Max: 909 N at 53.8 ms

Min: -311 N at 149.3 ms

Neck X-axis Moment

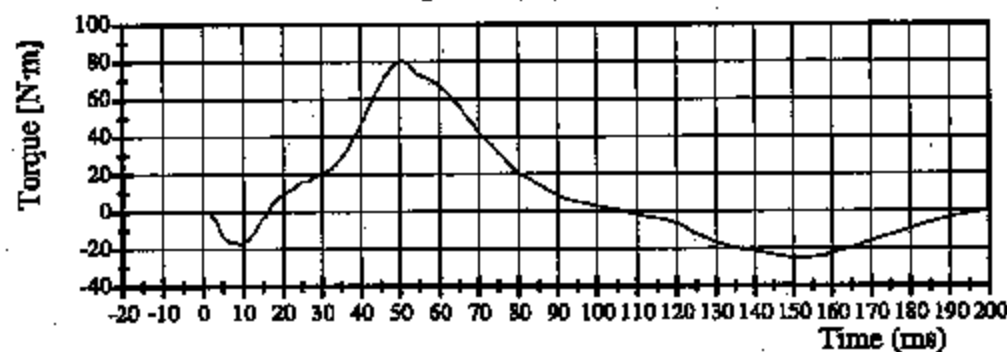


Filter Class: CFC 600

Max: 64.7 N·m at 50.6 ms

Min: -21.3 N·m at 9.5 ms

Moment About the Occipital Condyles (X-Axis)



Filter Class: 600

Max: 80.3 ° at 50.6 ms

Min: -25.2 ° at 152.2 ms

10.07.2004 08:34:01 519



Transportation Research Center Inc.

572F Left Thorax Test

SID HIII Serial No. 055 Calibration No. 16 - 1

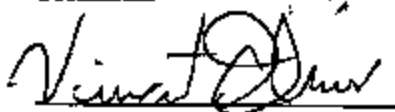
Test Date 10/07/2004

Test Parameter	Specification	Test Results	Pass
Temperature	18.9 - 25.5 C	21.2 C	Yes
Relative Humidity	10 - 70 %	32 %	Yes
Pendulum Velocity	4.27 - 4.33 m/sec	4.31 m/sec	Yes
Upper Rib Bar Peak Acceleration	37 - 46 g	42.8 g	Yes
Lower Rib Bar Peak Acceleration	37 - 46 g	41.7 g	Yes
Lower Thoracic Spine (T12) Peak Acceleration	15 - 22 g	19.3 g	Yes

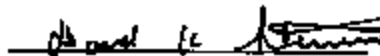
Test meets specifications.

Comments:

Technician



Approved



10.07.2004 13:43:31 1146



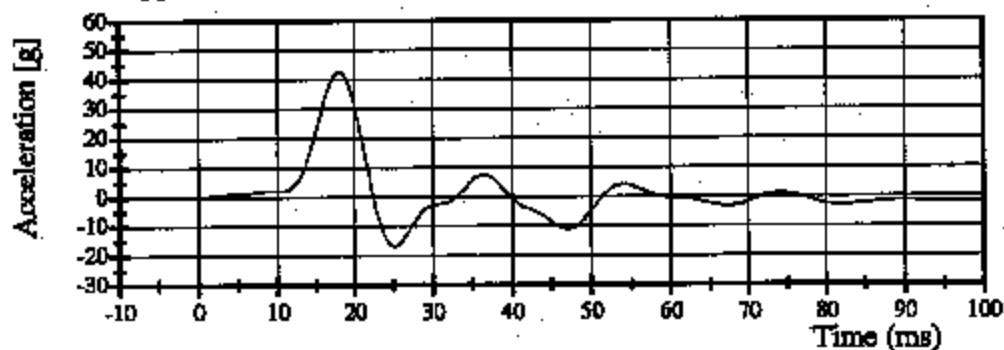
Transportation Research Center Inc.

572F Left Thorax Test

SID HIII Serial No. 055 Calibration No. 16 - 1

Test Date 10/07/2004

Upper Rib Bar Acceleration

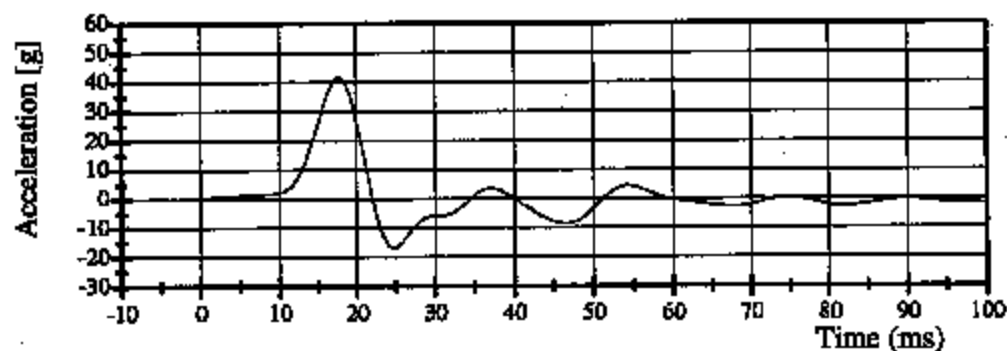


Filter Class: FIR 100

Max: 42.8 g at 17.8 ms

Min: -16.9 g at 25.3 ms

Lower Rib Bar Acceleration

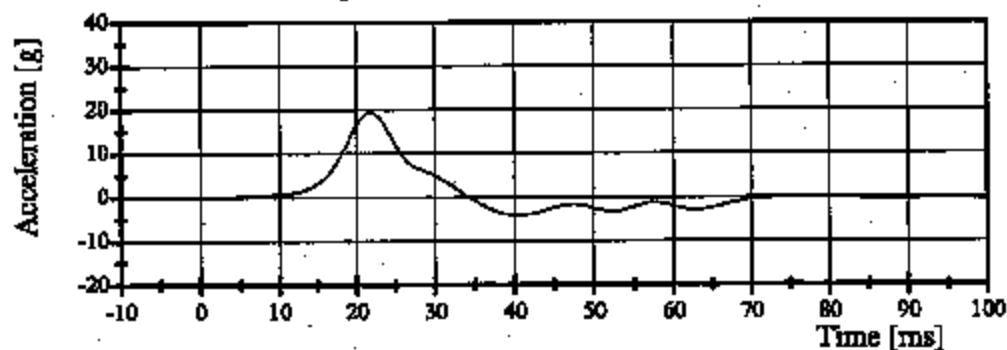


Filter Class: FIR 100

Max: 41.7 g at 17.8 ms

Min: -16.9 g at 24.6 ms

Lower Thoracic Spine (T12) Acceleration



Filter Class: FIR 100

Max: 19.3 g at 21.5 ms

Min: -4.1 g at 40.3 ms

10.07.2004 13:43:33 1146



TRANSPORTATION RESEARCH CENTER INC.

PART 572B LUMBAR FLEXION TEST

SID/HIII

CAL DATE: 06-Oct-04

TRC, INC.

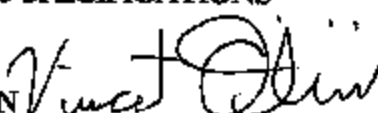
TEST NO: 055C16TF2

572M SN 055 TORSO FLEX CAL 16

TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE	18.9 - 25.6° C	69.9°C
RELATIVE HUMIDITY	10 - 70 %	31 %
FORCE AT 0 DEG. FLEXION	-27 - 27 N	0 N
FORCE AT 20 DEG OF FLEXION	98 - 151 N	146.8 N
FORCE AT 30 DEG OF FLEXION	151 - 205 N	200.2 N
FORCE AT 40 DEG OF FLEXION	205 - 258 N	231.3 N
NET RETURN ANGLE AFTER 3 MINUTES	< 12 °	1.5 °

TEST MEETS SPECIFICATIONS

TECHNICIAN



Transportation Research Center Inc.

572B Abdomen Compression Test

SID HIII Serial No. 055 Calibration No. 16 - 6

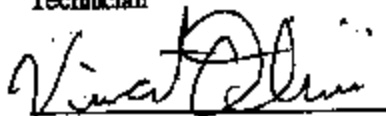
Test Date 10/07/2004

Test Parameter	Specification	Test Results	Pass
Temperature	18.9 - 25.5 °C	21.2 °C	Yes
Relative Humidity	10 - 70 %	32 %	Yes
Displacement Rate	6.35 - 8.89 mm/s	7.7 - 7.9 mm/s	Yes
Data Within Required Corridor	Yes	Yes	Yes

Test meets specifications.

Comments:

Technician



Approved



10.07.2004 08:52:05 1901

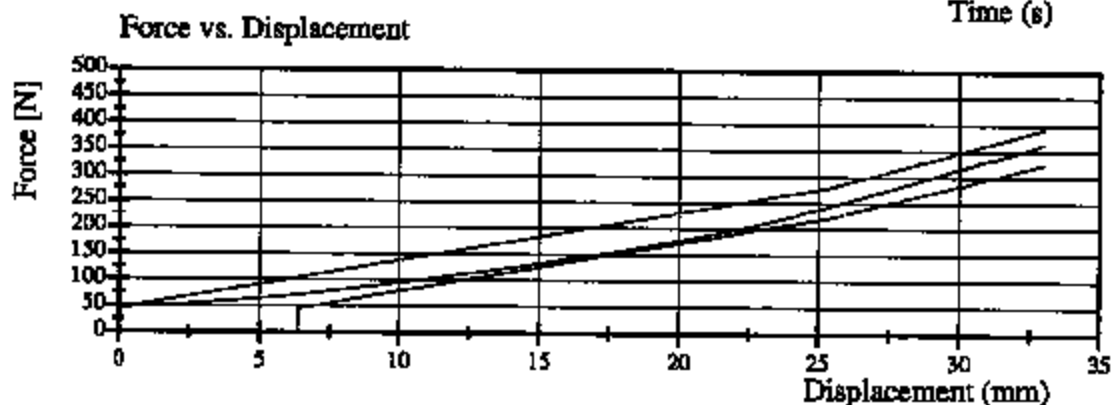
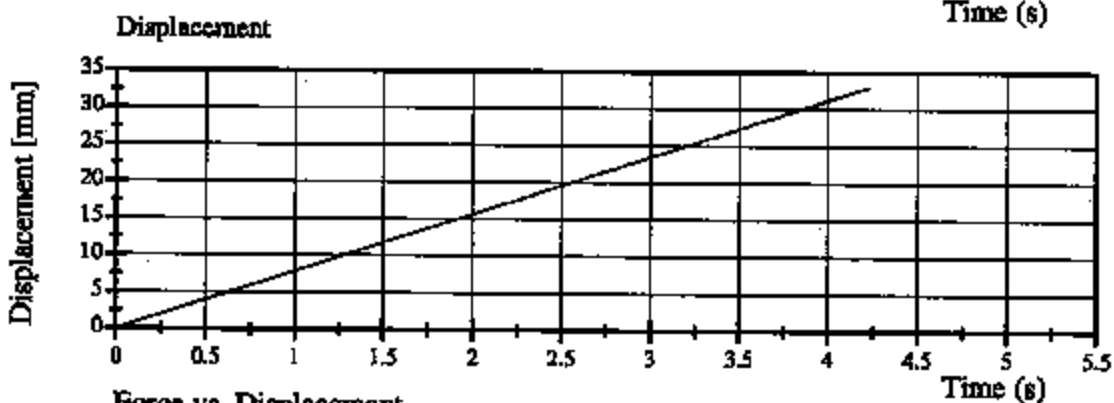
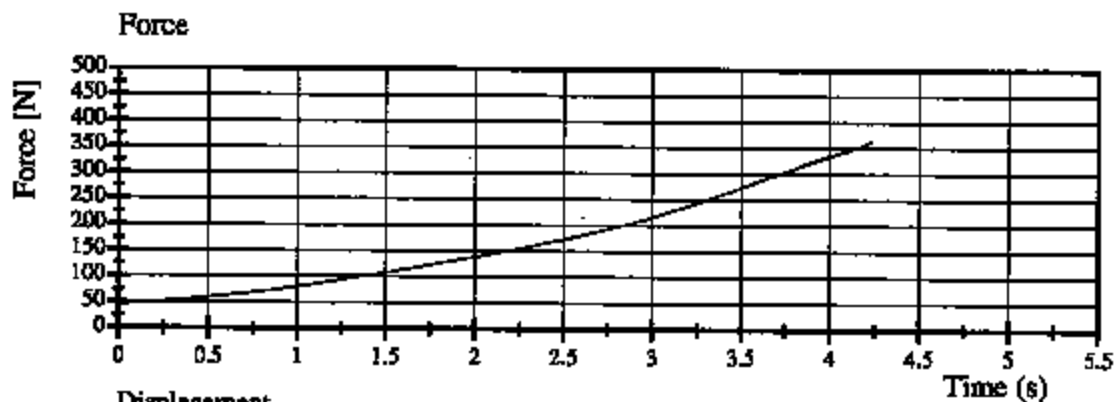
TRE

Transportation Research Center Inc.

572B Abdomen Compression Test

SID HIII Serial No. 055 Calibration No. 16 - 6

Test Date 10/07/2004



10.07.2004 08:52:07 1901

TRE

Transportation Research Center Inc.

572F Left Pelvis Test

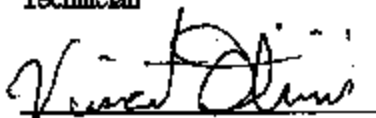
SID HIII Serial No. 055 Calibration No. 16 - 1

Test Date 10/07/2004

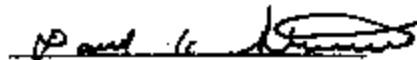
Test Parameter	Specification	Test Results	Pass
Temperature	18.9 - 25.5 C	21.4 C	Yes
Relative Humidity	10 - 70 %	31 %	Yes
Pendulum Velocity	4.27 - 4.33 m/sec	4.32 m/sec	Yes
Pelvis Peak Acceleration	40 - 60 g	45.8 g	Yes
Time Above 20 g	3 - 7 ms	6.00 ms	Yes
Unimodal requirement for pelvis acceleration	Yes	Yes	Yes

Comments:

Technician



Approved



10.07.2004 13:52:50 1159

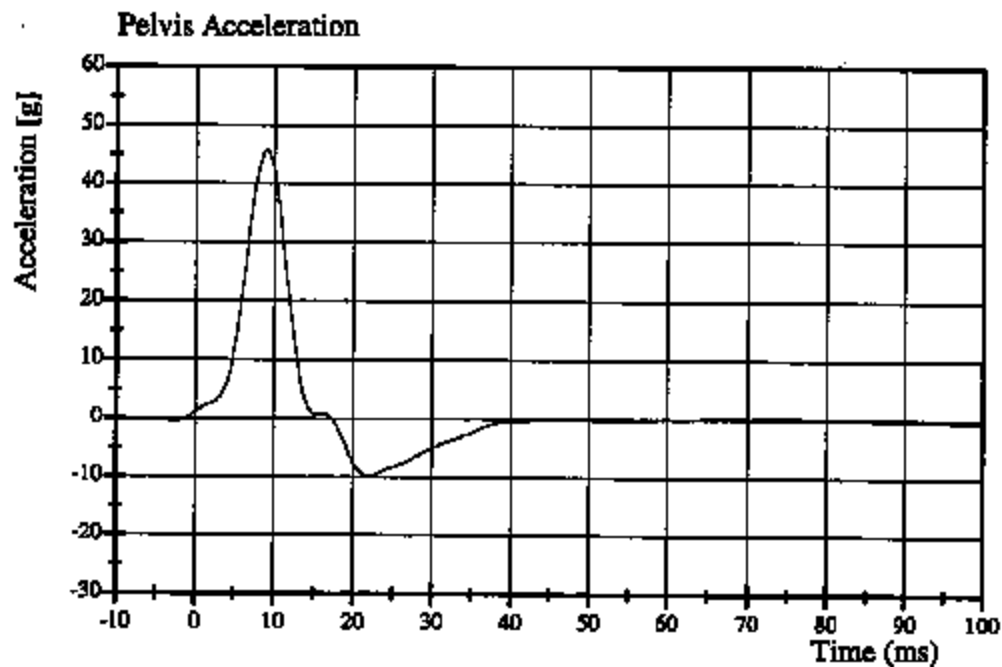
TRE

Transportation Research Center Inc.

572F Left Pelvis Test

SID HIII Serial No. 055 Calibration No. 16 - 1

Test Date 10/07/2004



Filter Class: FIR 100

Max: 45.8 g at 9.2 ms

Min: -9.9 g at 21.8 ms

10/07/2004 13:52:51 1159



Calibration Test Results

Post-Test

SID HIII: 906

Configured for Left Side Impact

External Dimensions:	The dummy passed all external dimension requirements.
Lateral Head Drop Test: ¹	The head passed all lateral drop test requirements.
Lateral Neck Test:	The neck passed all impact test requirements.
Lateral Thorax Impact Test:	The 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.

¹ The initial post-test lateral head drop produced a passing result however, the acceleration curve was not typical. Upon investigation a damaged screw thread was discovered in the head CG mounting block. This screw was replaced and a confirmatory lateral head drop was performed and included.

Transportation Research Center Inc.
SID/HII Dummy
External Dimensions
Serial No. 906 Calibration No. 09
Date: 10/28/04

Test Parameter	Dimension	Specification	Results	Pass
Seated Height	SH	889.0 - 909.3 mm	894 mm	Yes
Rib Height	RH	501.7 - 520.7 mm	508 mm	Yes
Hip Pivot Height	HP	99.1 REF mm	99.1 mm	
Knee Pivot From Backline	KH	510.5 - 525.8 mm	524 mm	Yes
Knee Pivot From Floor	KV	490.2 - 505.5 mm	494 mm	Yes
Hip Width	HW	355.6 - 391.2 mm	382 mm	Yes
Top Rib Width From CL	RW-1	165.1 - 180.3 mm	177 mm	Yes
Bottom Rib Width From CL	RW-2	165.1 - 180.3 mm	178 mm	Yes
Difference Between Top & Bottom Rib Width from CL		<= 2.5 mm	1.0 mm	Yes

Technician

Vincent Oliver

Approved

V. P. Walther

TRE

Transportation Research Center Inc.

572M Left Lateral Head Test

SID HIII Serial No. 906 Calibration No. 09 - 1

Test Date 10/21/2004

Test Parameter	Specification	Test Results	Pass
Temperature	18.9 - 25.6 °C	21.3 °C	Yes
Relative Humidity	10 - 70 %	46 %	Yes
Peak Resultant Acceleration	120 - 150 g	134.7 g	Yes
Peak Longitudinal Acceleration	15 g Max	-14.5 g	Yes
Is Acceleration Curve Unimodal?	Yes	Yes	Yes

Test meets specifications.

Comments:

Post-Test Calibration, Test Anomaly

Technician

Vincent Oliver

Approved

V.F. Walter

10.28.2004 09:06:25 610

TRE

Transportation Research Center Inc.

572M Left Lateral Head Test

SID HIII Serial No. 906 Calibration No. 09 - 4

Test Date 10/22/2004

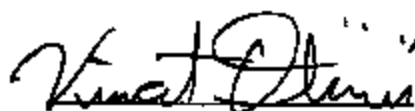
Test Parameter	Specification	Test Results	Pass
Temperature	18.9 - 25.6 °C	21.1 °C	Yes
Relative Humidity	10 - 70 %	44 %	Yes
Peak Resultant Acceleration	120 - 150 g	140.9 g	Yes
Peak Longitudinal Acceleration	15 g Max	-6.7 g	Yes
Is Acceleration Curve Unimodal?	Yes	Yes	Yes

Test meets specifications.

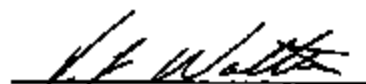
Comments:

Pre-test calibration. Head CG mounting screw replaced.

Technician



Approved



11.01.2004 13:30:53 611

TRE

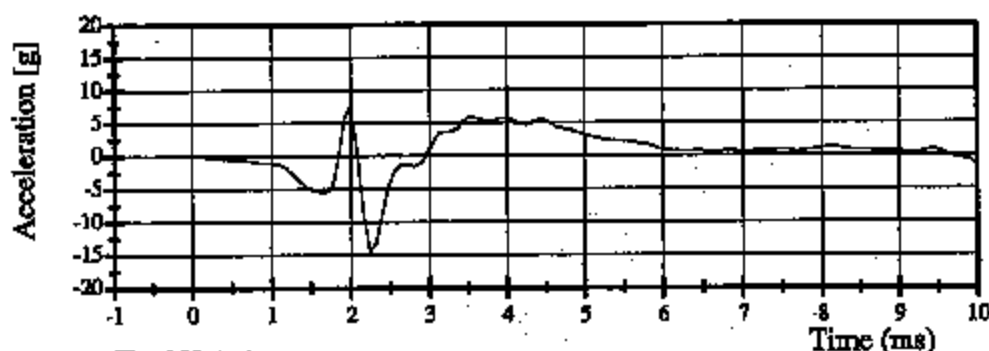
Transportation Research Center Inc.

572M Left Lateral Head Test

SID IIII Serial No. 906 Calibration No. 09 - 1

Test Date 10/21/2004

Head X-Axis

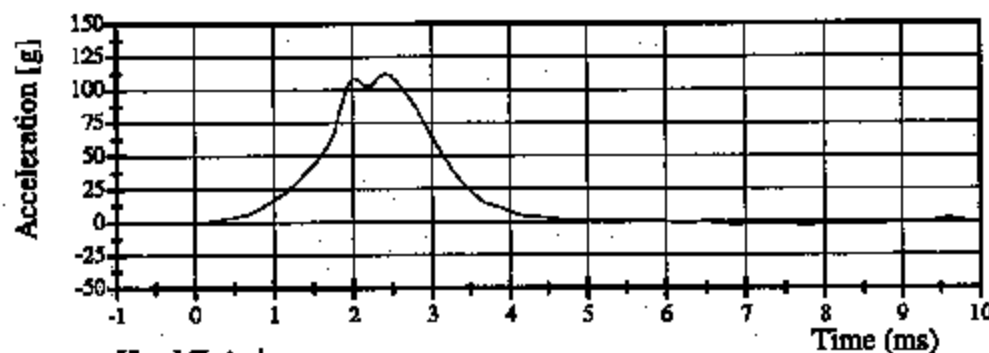


Filter Class: 1000

Max: 7.8 g at 2.0 ms

Min: -14.5 g at 2.2 ms

Head Y-Axis

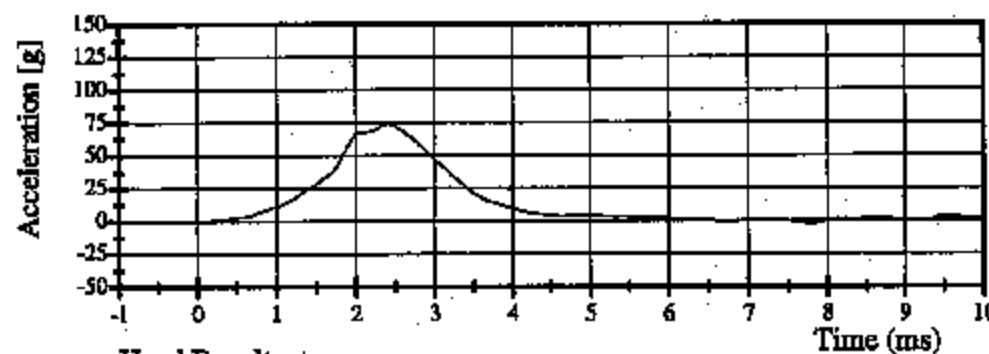


Filter Class: 1000

Max: 112.1 g at 2.4 ms

Min: -2.5 g at 7.8 ms

Head Z-Axis

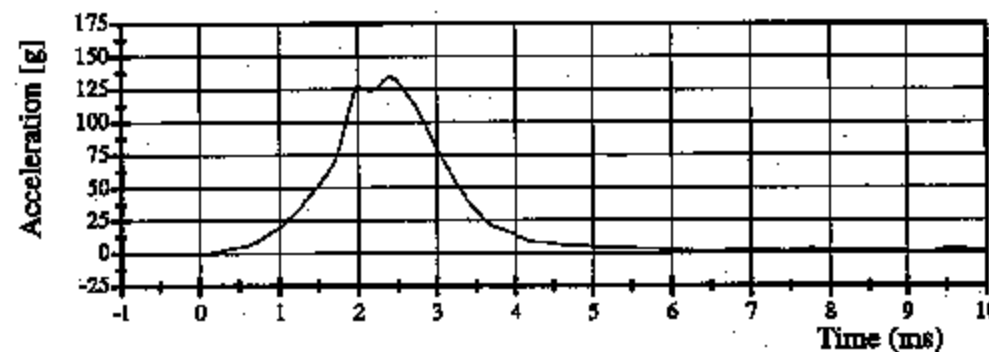


Filter Class: 1000

Max: 74.3 g at 2.4 ms

Min: -2.4 g at 7.8 ms

Head Resultant



Filter Class: 1000

Max: 134.7 g at 2.4 ms

Min: 0.0 g at 0.5 ms

10/28/2004 09:06:26 610

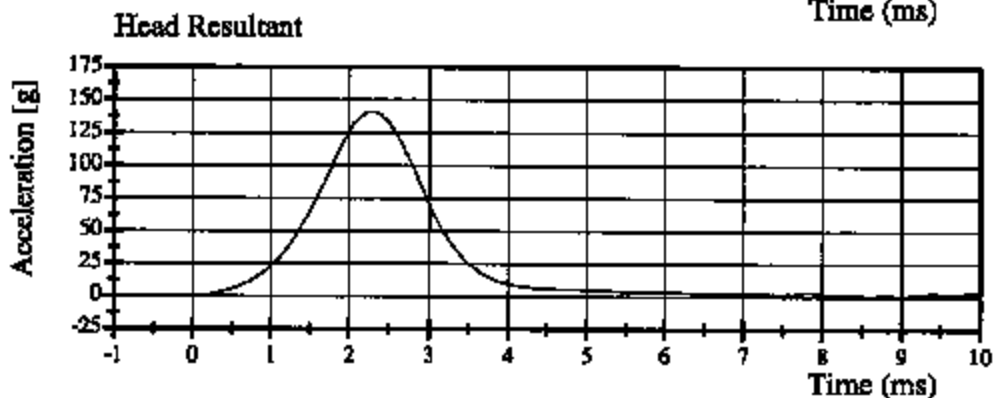
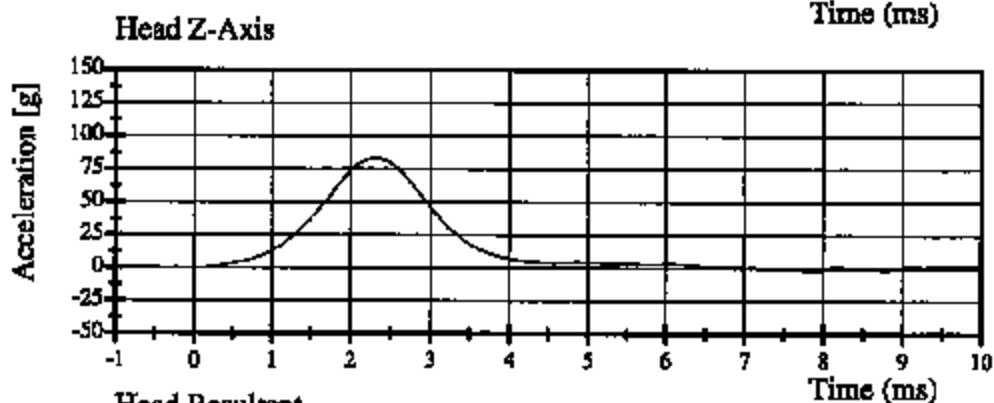
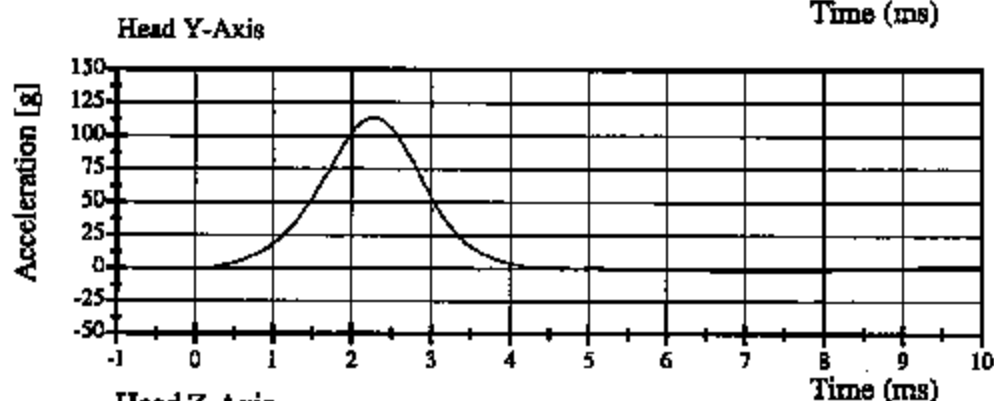
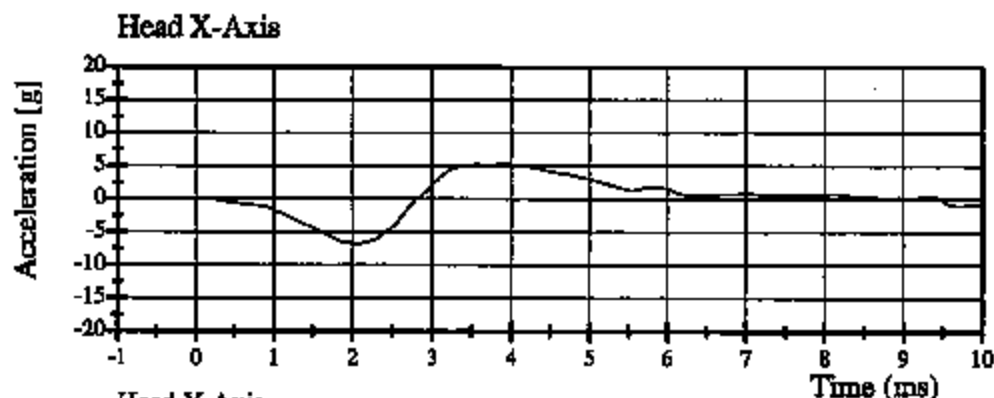
TRE

Transportation Research Center Inc.

572M Left Lateral Head Test

SID HIII Serial No. 906 Calibration No. 09 - 4

Test Date 10/22/2004



10.28.2004 09:08:40 611

TRE

Transportation Research Center Inc.

572M Left Lateral Neck Test

SID HIII Serial No. 906 Calibration No. 09 - 1

Test Date 10/22/2004

Test Parameter	Specification	Test Results	Pass
Temperature	20.6 - 22.2 °C	21.3 °C	Yes
Relative Humidity	10 - 70 %	43 %	Yes
Impact Velocity	6.89 - 7.13 m/s	7.01 m/s	Yes
Integrated Pendulum Velocity			
10 ms	1.96 - 2.55 m/s	2.36 m/s	Yes
20 ms	4.12 - 5.10 m/s	4.78 m/s	Yes
30 ms	5.73 - 7.01 m/s	6.82 m/s	Yes
40 - 70 ms	6.27 - 7.64 m/s	7.20 - 7.31 m/s	Yes
Peak D Plane Rotation	66 - 82 °	71.3 °	Yes
Rotation Decay Time To 0° From Peak Angle	58 - 67 °	61.1 °	Yes
Peak Moment About Occipital Condyles	73.0 - 88.0 N·m	78.8 N·m	Yes
Moment Decay Time To 0 N·m From Peak Moment	49 - 64 ms	57.4 ms	Yes
Time Between Peak Rotation and Peak Moment	2 - 16 ms	8.2 ms	Yes

Test meets specifications.

Comments:

Technician

Vincent Oliver

Approved

V. J. Natta

10.22.2004 14:51:37 514

TRE

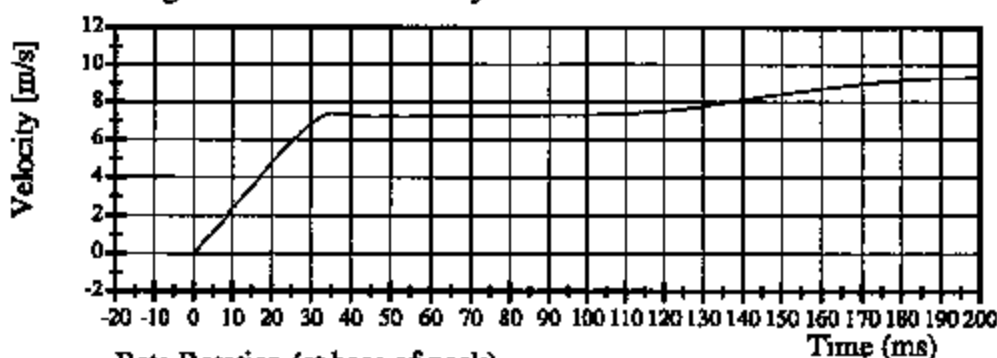
Transportation Research Center Inc.

572M Left Lateral Neck Test

SID IIII Serial No. 906 Calibration No. 09 - 1

Test Date 10/22/2004

Integrated Pendulum Velocity

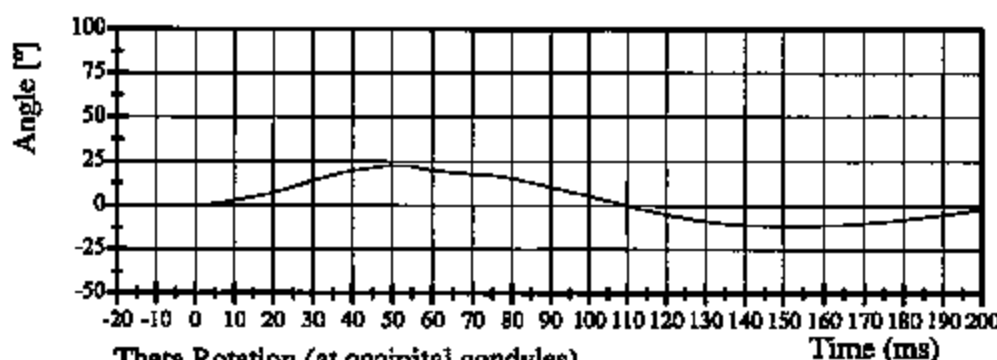


Filter Class: 180

Max: 9.9 m/s at 958.9 ms

Min: -0.0 m/s at -0.5 ms

Beta Rotation (at base of neck)

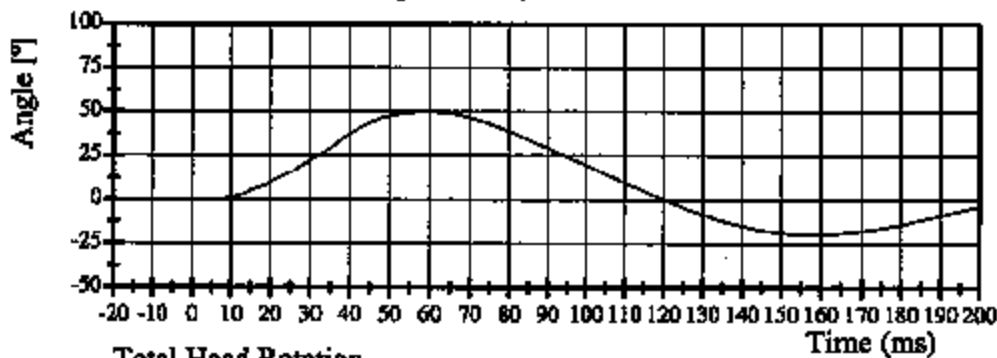


Filter Class: 60

Max: 22.4 ° at 51.4 ms

Min: -11.7 ° at 151.8 ms

Theta Rotation (at occipital condyles)

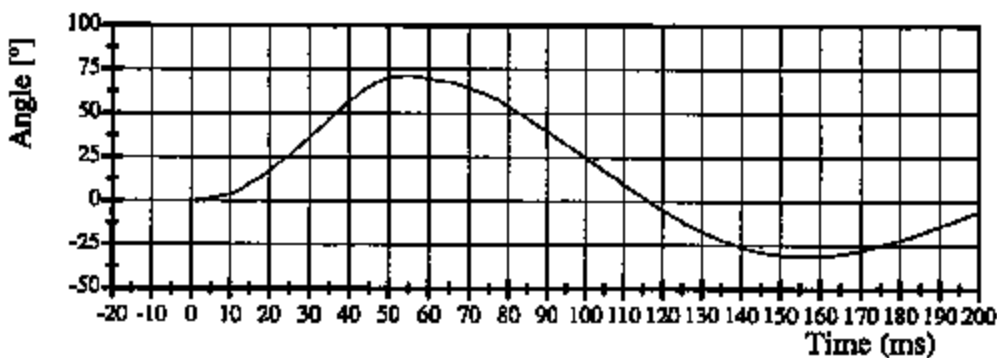


Filter Class: 60

Max: 50.1 ° at 58.6 ms

Min: -19.6 ° at 158.6 ms

Total Head Rotation



Filter Class: 60

Max: 71.3 ° at 55.4 ms

Min: -31.2 ° at 155.9 ms

10.22.2004 14:51:38 514

TRE

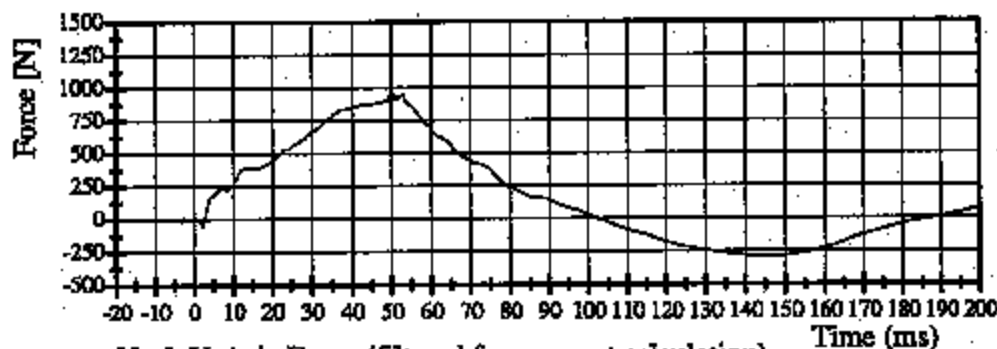
Transportation Research Center Inc.

572M Left Lateral Neck Test

SID HIII Serial No. 906 Calibration No. 09 - 1

Test Date 10/22/2004

Neck Y-Axis Force

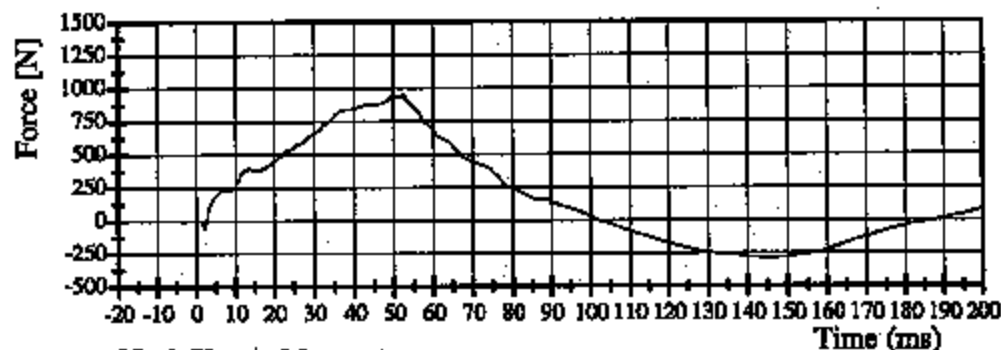


Filter Class: CFC 1000

Max: 948 N at 50.4 ms

Min: -290 N at 145.9 ms

Neck Y-Axis Force (filtered for moment calculation)

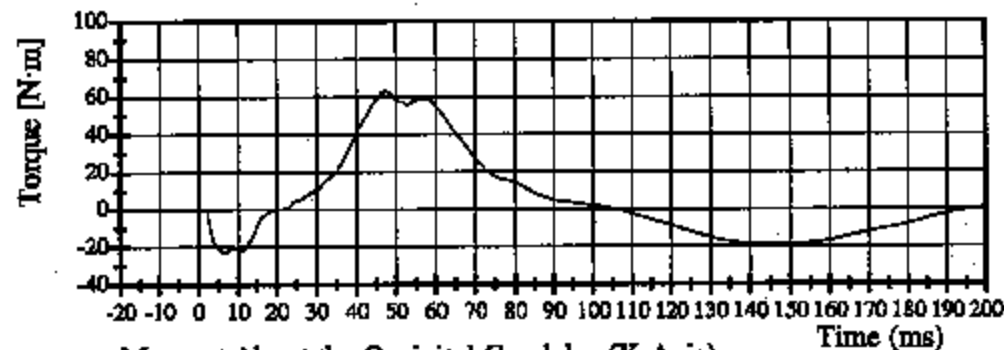


Filter Class: CFC 600

Max: 947 N·m at 52.6 ms

Min: -290 N·m at 145.9 ms

Neck X-axis Moment

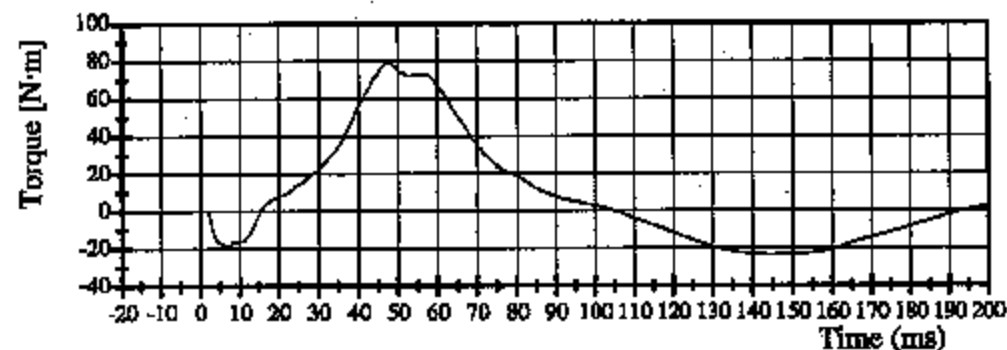


Filter Class: CFC 600

Max: 63.0 N·m at 47.1 ms

Min: -22.8 N·m at 6.8 ms

Moment About the Occipital Condyles (X-Axis)



Filter Class: 600

Max: 78.8° at 47.3 ms

Min: -24.0° at 146.6 ms

10.22.2004 14:51:39 514



Transportation Research Center Inc.

572F Left Thorax Test

SID HIII Serial No. 906 Calibration No. 09 - 1

Test Date 10/27/2004

Test Parameter	Specification	Test Results	Pass
Temperature	18.9 - 25.5 C	21.1 C	Yes
Relative Humidity	10 - 70 %	53 %	Yes
Pendulum Velocity	4.27 - 4.33 m/sec	4.31 m/sec	Yes
Upper Rib Bar Peak Acceleration	37 - 46 g	42.9 g	Yes
Lower Rib Bar Peak Acceleration	37 - 46 g	43.5 g	Yes
Lower Thoracic Spine (T12) Peak Acceleration	15 - 22 g	17.6 g	Yes

Test meets specifications.

Comments:

Technician

Vincent Oliver

Approved

V. L. Walter

10.27.2004 13:02:20 1167

TRE

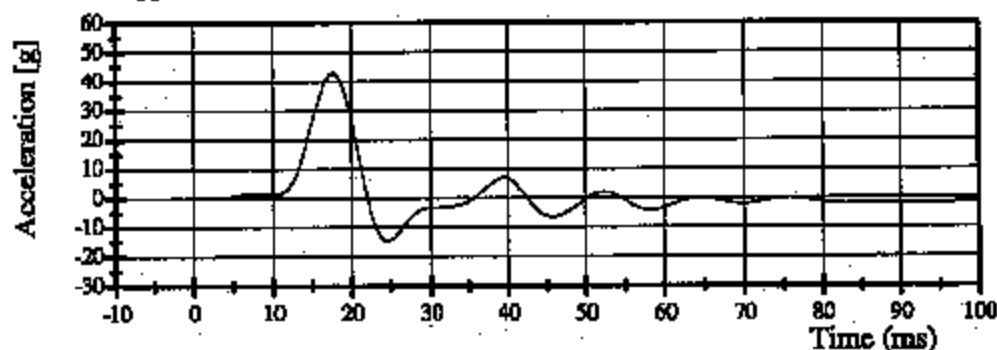
Transportation Research Center Inc.

572F Left Thorax Test

SID IIII Serial No. 906 Calibration No. 09 - 1

Test Date 10/27/2004

Upper Rib Bar Acceleration

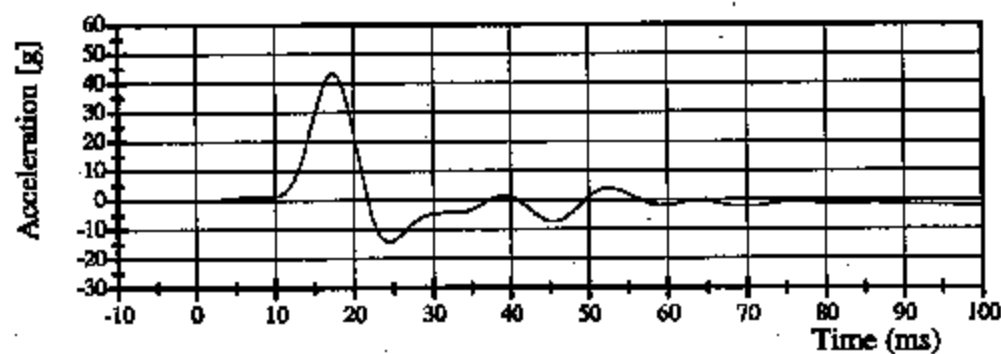


Filter Class: FIR 100

Max: 42.9 g at 17.9 ms

Min: -14.7 g at 24.8 ms

Lower Rib Bar Acceleration

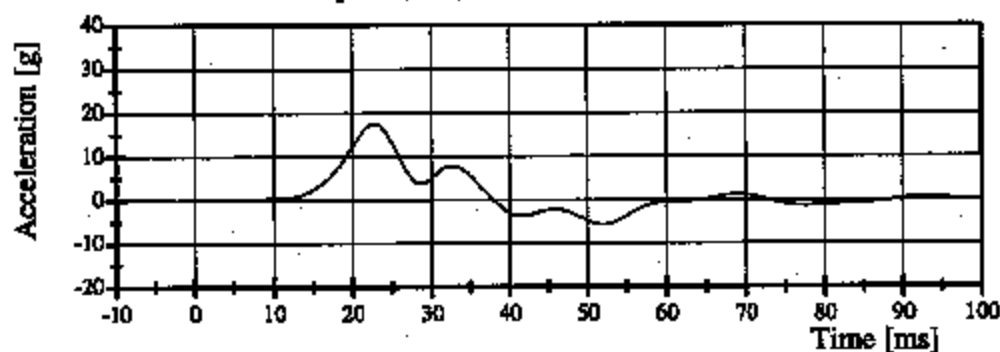


Filter Class: FIR 100

Max: 43.5 g at 17.4 ms

Min: -14.4 g at 24.2 ms

Lower Thoracic Spine (T12) Acceleration



Filter Class: FIR 100

Max: 17.6 g at 23.0 ms

Min: -5.7 g at 51.8 ms

10.27.2004 13:02:21 1167



TRANSPORTATION RESEARCH CENTER INC.

PART 572B LUMBAR FLEXION TEST

SID/HIII

CAL DATE: 26-Oct-04

TRC, INC. TEST NO: LF90609TF2 572M SN 906 TORSO FLEX CAL 09

TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE	18.9 – 25.6° C	21.4°C
RELATIVE HUMIDITY	10 – 70 %	40 %
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	204.6 N
FORCE AT 40 DEG OF FLEXION	205 – 258 N	253.5 N
NET RETURN ANGLE AFTER 3 MINUTES	< 12 °	4.4 °

TEST MEETS SPECIFICATIONS

TECHNICIAN

Vincent Blum

Transportation Research Center Inc.

572B Abdomen Compression Test

SID HIII Serial No. 906 Calibration No. 09 - 1

Test Date 10/26/2004

Test Parameter	Specification	Test Results	Pass
Temperature	18.9 - 25.5 °C	21.3 °C	Yes
Relative Humidity	10 - 70 %	40 %	Yes
Displacement Rate	6.35 - 8.89 mm/s	7.7 - 7.9 mm/a	Yes
Data Within Required Corridor	Yes	Yes	Yes

Test meets specifications.

Comments:

Technician

Vince Oliver

Approved

V. K. Walter

10.26.2004 10:30:23 1971

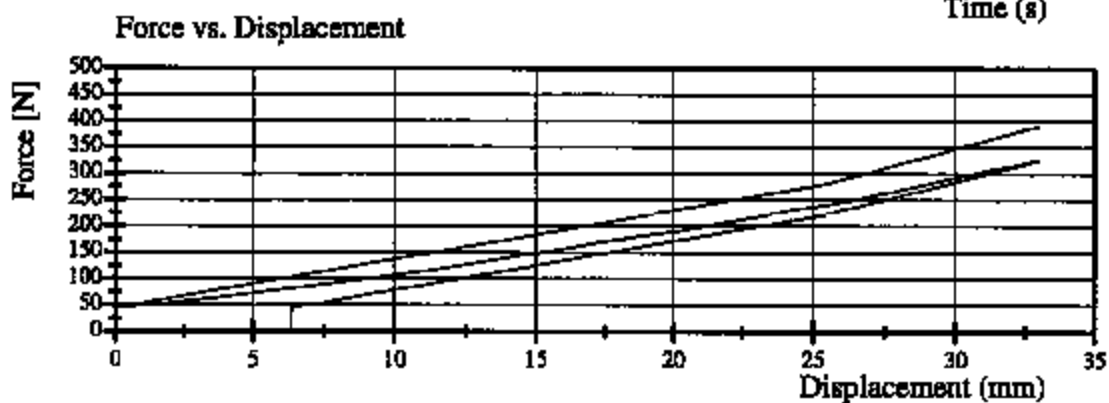
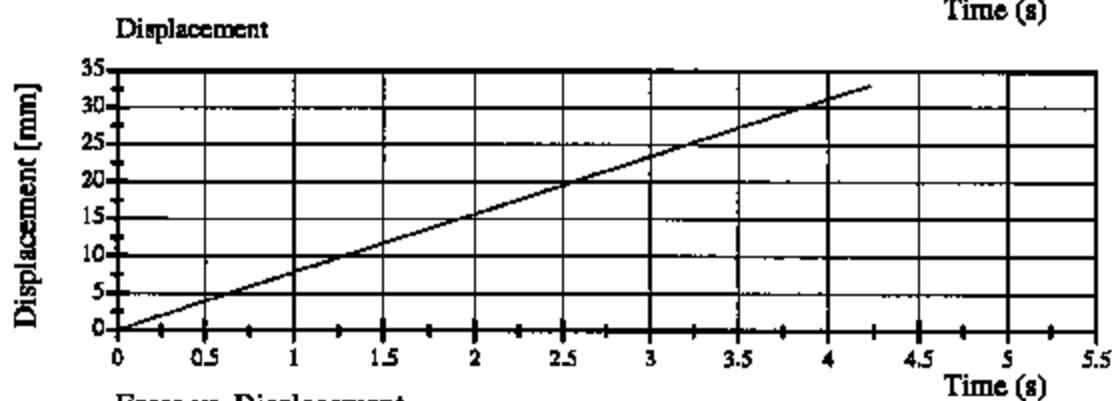
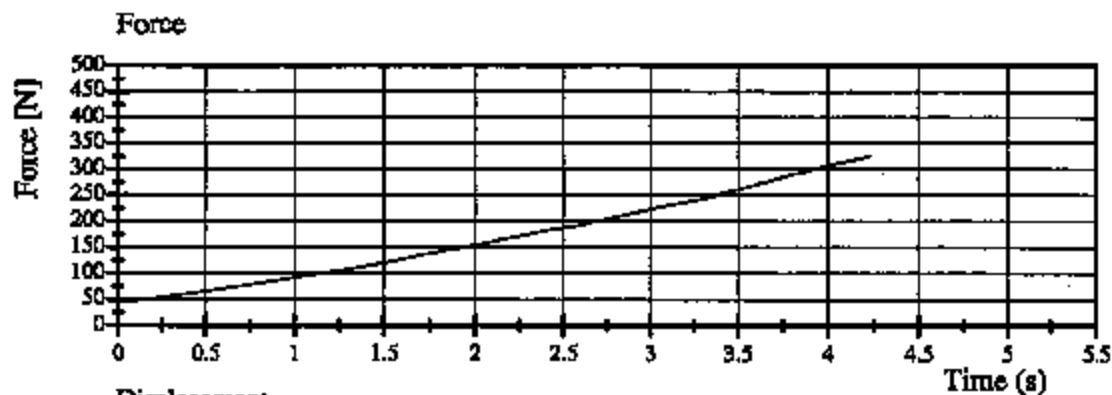
TRE

Transportation Research Center Inc.

572B Abdomen Compression Test

SID HIII Serial No. 906 Calibration No. 09 - 1

Test Date 10/26/2004



10.26.2004 10:30:24 1971

TRE

Transportation Research Center Inc.

572F Left Pelvis Test

SID HIII Serial No. 906 Calibration No. 09 - 1

Test Date 10/27/2004

Test Parameter	Specification	Test Results	Pass
Temperature	18.9 - 25.5 C	21.2 C	Yes
Relative Humidity	10 - 70 %	51 %	Yes
Pendulum Velocity	4.27 - 4.33 m/sec	4.31 m/sec	Yes
Pelvis Peak Acceleration	40 - 60 g	50.9 g	Yes
Time Above 20 g	3 - 7 ms	6.00 ms	Yes
Unimodal requirement for pelvis acceleration	Yes	Yes	Yes

Comments:

Technician

Vince Oliver

Approved

V. J. Walter

10/27/2004 12:50:34 1166

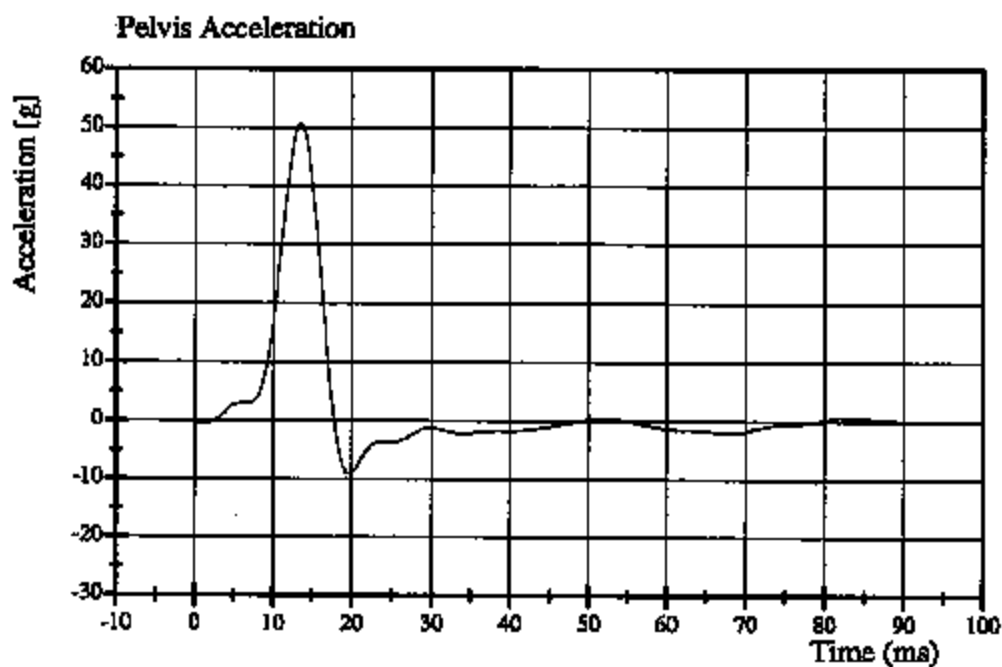
TRE

Transportation Research Center Inc.

572F Left Pelvis Test

SID HIII Serial No. 906 Calibration No. 09 - 1

Test Date 10/27/2004



Filter Class: FIR 100

Max: 50.9 g at 13.7 ms

Min: -9.1 g at 19.9 ms

10.27.2004 12:50:35 1166



Calibration Test Results

Post-Test

SID HIII: 055

Configured for Left Side Impact

External Dimensions:	The dummy passed all external dimension requirements.
Lateral Head Drop Test:	The head passed all lateral drop test requirements.
Lateral Neck Test:	The neck passed all impact test requirements.
Lateral Thorax Impact Test:	The 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.
SID/HHH Dummy
External Dimensions
Serial No. 055 Calibration No. 17
Date: 10/28/04

Test Parameter	Dimension	Specification	Results	Pass
Seated Height	SH	889.0 - 909.3 mm	905 mm	Yes
Rib Height	RH	501.7 - 520.7 mm	513 mm	Yes
Hip Pivot Height	HP	99.1 REF mm	99.1 mm	
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	370 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

K.P. Watter

TRE

Transportation Research Center Inc.

572M Left Lateral Head Test

SID HIII Serial No. 055 Calibration No. 17 - 1

Test Date 10/21/2004

Test Parameter	Specification	Test Results	Pass
Temperature	18.9 - 25.6 °C	21.3 °C	Yes
Relative Humidity	10 - 70 %	46 %	Yes
Peak Resultant Acceleration	120 - 150 g	133.2 g	Yes
Peak Longitudinal Acceleration	15 g Max	6.3 g	Yes
Is Acceleration Curve Unimodal?	Yes	Yes	Yes

Test meets specifications.

Comments:

Technician

Vincent Oliveri

Approved

V. V. Walter

10/21/2004 10:44:18 611

TRE

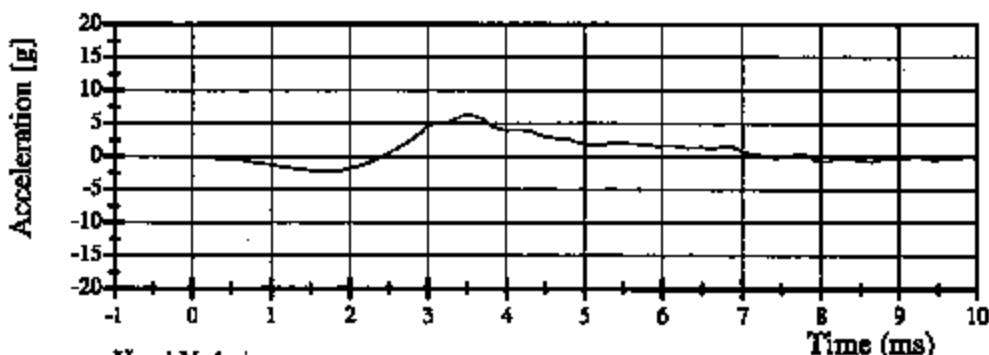
Transportation Research Center Inc.

572M Left Lateral Head Test

SID HIII Serial No. 055 Calibration No. 17 - 1

Test Date 10/21/2004

Head X-Axis

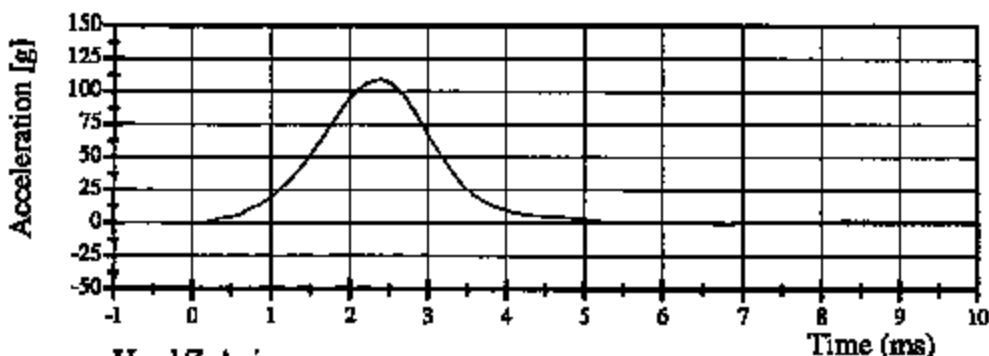


Filter Class: 1000

Max: 6.3 g at 3.5 ms

Min: -2.3 g at 1.8 ms

Head Y-Axis

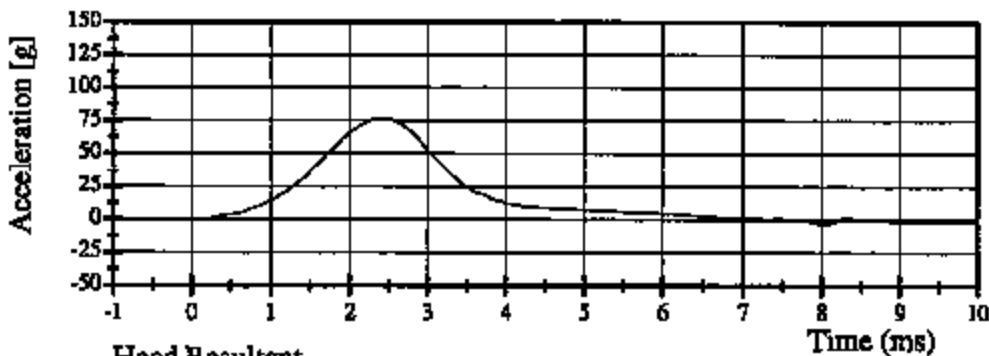


Filter Class: 1000

Max: 108.7 g at 2.4 ms

Min: -0.9 g at 6.8 ms

Head Z-Axis

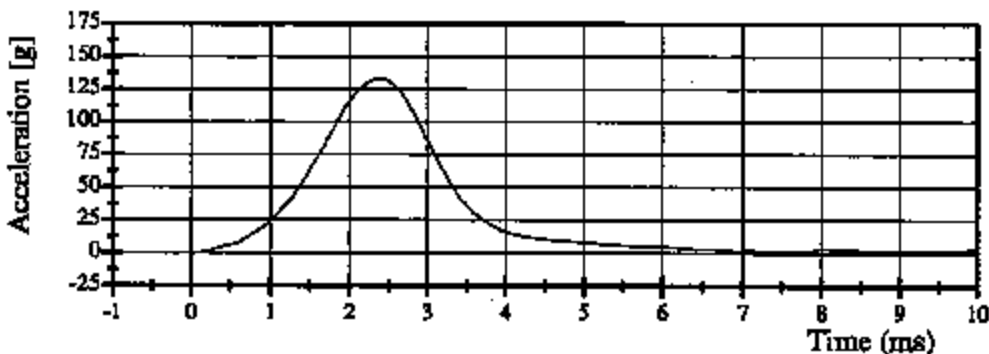


Filter Class: 1000

Max: 77.0 g at 2.4 ms

Min: -4.0 g at 8.0 ms

Head Resultant



Filter Class: 1000

Max: 133.2 g at 2.4 ms

Min: 0.0 g at 0.0 ms

10/21/2004 10:44:19 611

TRE

Transportation Research Center Inc.

572M Left Lateral Neck Test

SID HIII Serial No. 055 Calibration No. 17 - 2

Test Date 10/22/2004

Test Parameter	Specification	Test Results	Pass
Temperature	20.6 - 22.2 °C	21.1 °C	Yes
Relative Humidity	10 - 70 %	39 %	Yes
Impact Velocity	6.89 - 7.13 m/s	6.97 m/s	Yes
Integrated Pendulum Velocity			
10 ms	1.96 - 2.55 m/s	2.14 m/s	Yes
20 ms	4.12 - 5.10 m/s	4.38 m/s	Yes
30 ms	5.73 - 7.01 m/s	6.34 m/s	Yes
40 - 70 ms	6.27 - 7.64 m/s	7.14 - 7.31 m/s	Yes
Peak D Plane Rotation	66 - 82 °	70.5 °	Yes
Rotation Decay Time To 0° From Peak Angle	58 - 67 °	63.7 °	Yes
Peak Moment About Occipital Condyles	73.0 - 88.0 N·m	81.8 N·m	Yes
Moment Decay Time To 0 N·m From Peak Moment	49 - 64 ms	55.5 ms	Yes
Time Between Peak Rotation and Peak Moment	2 - 16 ms	5.3 ms	Yes

Test meets specifications.

Comments:

Technician

Vincent Oliver

Approved

V. F. Walter

10.22.2004 09:28:28 515

TRE

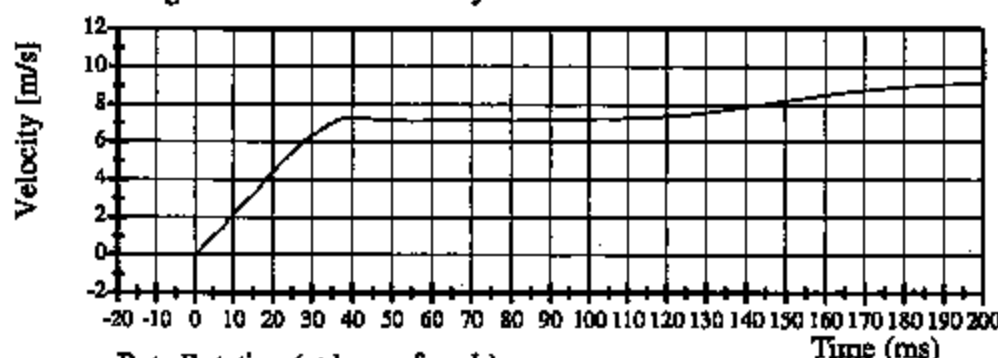
Transportation Research Center Inc.

572M Left Lateral Neck Test

SID HIII Serial No. 055 Calibration No. 17 - 2

Test Date 10/22/2004

Integrated Pendulum Velocity

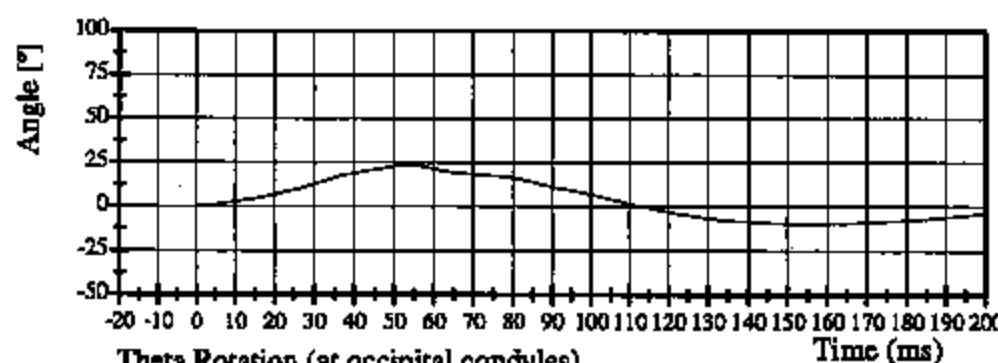


Filter Class: 180

Max: 9.2 m/s at 958.8 ms

Min: -0.0 m/s at -0.5 ms

Beta Rotation (at base of neck)

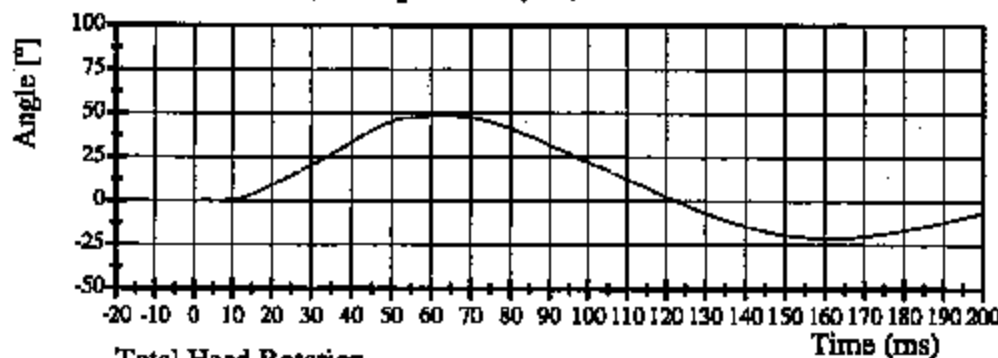


Filter Class: 60

Max: 23.0° at 54.1 ms

Min: -9.9° at 155.8 ms

Theta Rotation (at occipital condyles)

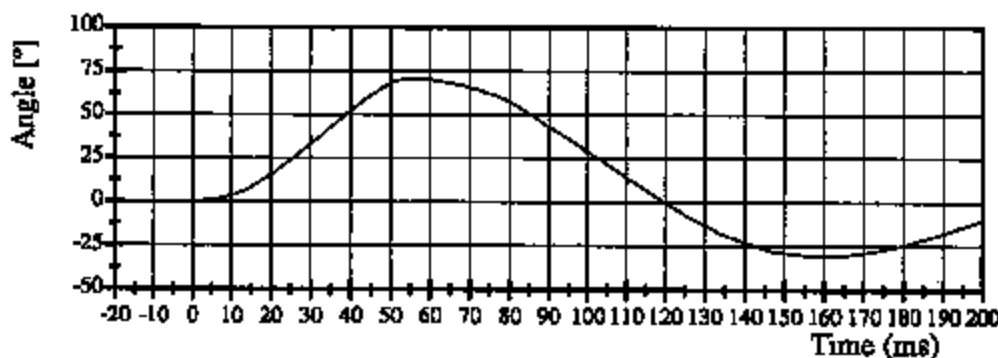


Filter Class: 60

Max: 48.9° at 62.3 ms

Min: -20.9° at 161.0 ms

Total Head Rotation



Filter Class: 60

Max: 70.5° at 56.2 ms

Min: -30.7° at 160.1 ms

10.22.2004 09:28:30 515



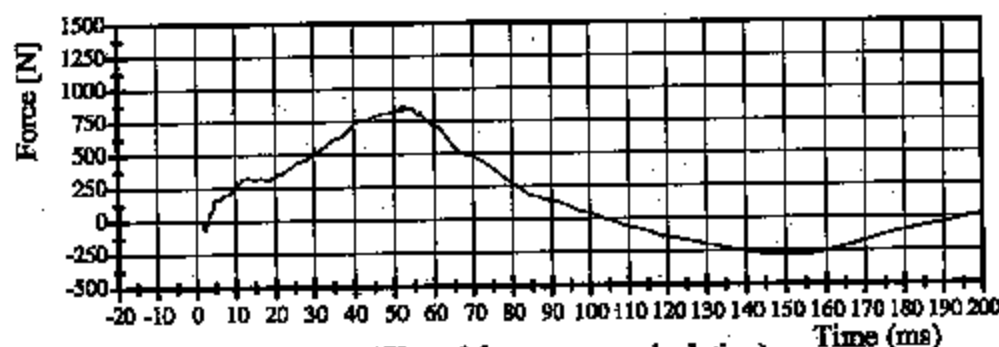
Transportation Research Center Inc.

572M Left Lateral Neck Test

SID IIII Serial No. 055 Calibration No. 17 - 2

Test Date 10/22/2004

Neck Y-Axis Force

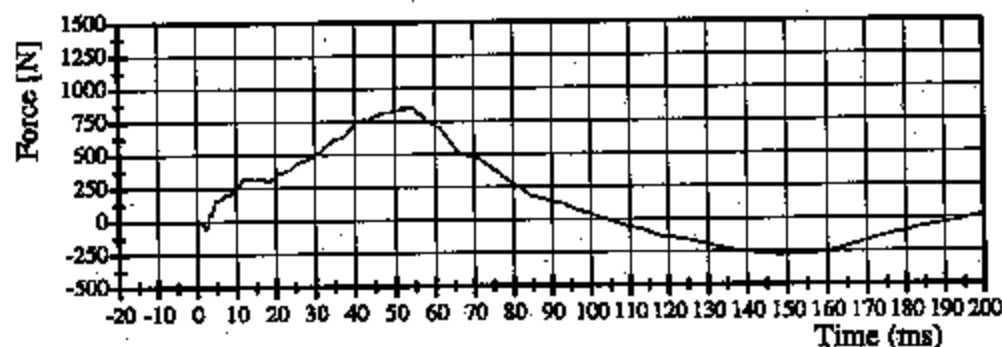


Filter Class: CFC 1000

Max: 868 N at 52.5 ms

Min: -281 N at 148.6 ms

Neck Y-Axis Force (filtered for moment calculation)

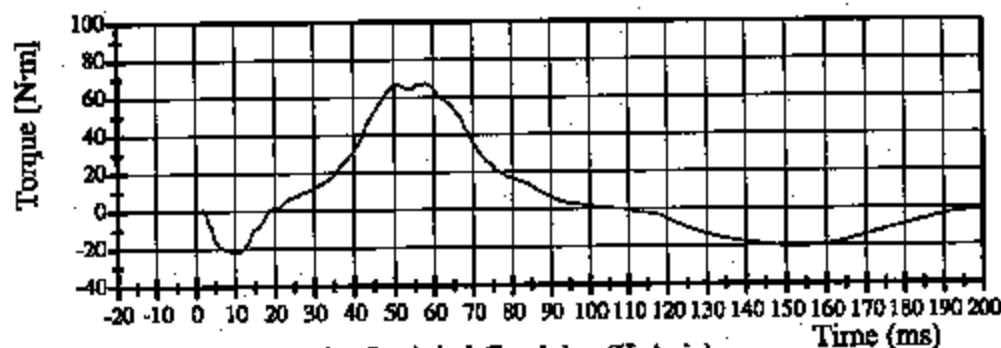


Filter Class: CFC 600

Max: 863 N at 52.6 ms

Min: -280 N at 148.6 ms

Neck X-axis Moment

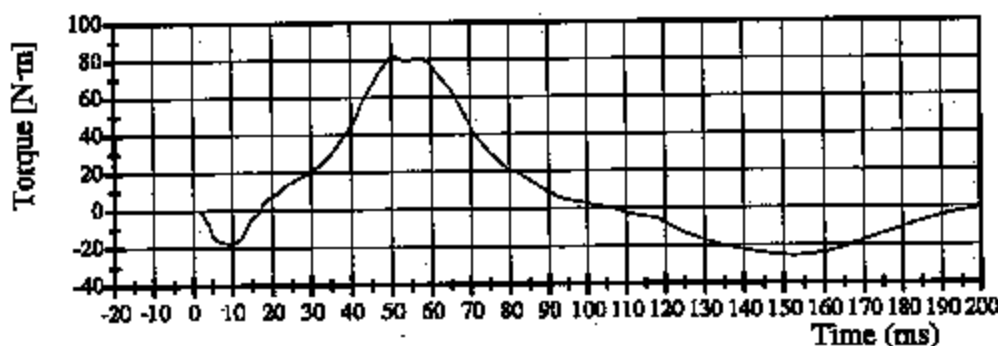


Filter Class: CFC 600

Max: 67.1 N-m at 57.7 ms

Min: -21.8 N-m at 10.4 ms

Moment About the Occipital Condyles (X-Axis)



Filter Class: 600

Max: 81.8 ° at 50.9 ms

Min: -25.6 ° at 152.6 ms

10.22.2004 09:28:31 515



Transportation Research Center Inc.

572F Left Thorax Test

SID HIII Serial No. 055 Calibration No. 17 - 1

Test Date 10/27/2004

Test Parameter	Specification	Test Results	Pass
Temperature	18.9 - 25.5 C	21.3 C	Yes
Relative Humidity	10 - 70 %	53 %	Yes
Pendulum Velocity	4.27 - 4.33 m/sec	4.31 m/sec	Yes
Upper Rib Bar Peak Acceleration	37 - 46 g	41.6 g	Yes
Lower Rib Bar Peak Acceleration	37 - 46 g	39.6 g	Yes
Lower Thoracic Spine (T12) Peak Acceleration	15 - 22 g	20.2 g	Yes

Test meets specifications.

Comments:

Technician



Approved



10.27.2004 11:30:53 1167

TRE

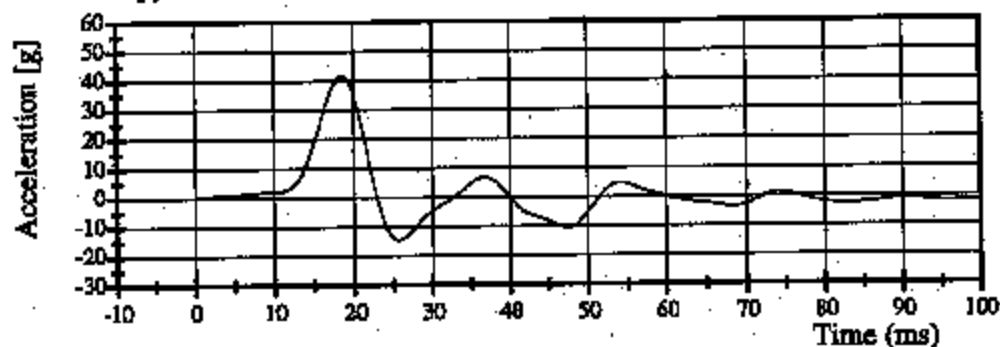
Transportation Research Center Inc.

572F Left Thorax Test

SID HIII Serial No. 055 Calibration No. 17 - 1

Test Date 10/27/2004

Upper Rib Bar Acceleration

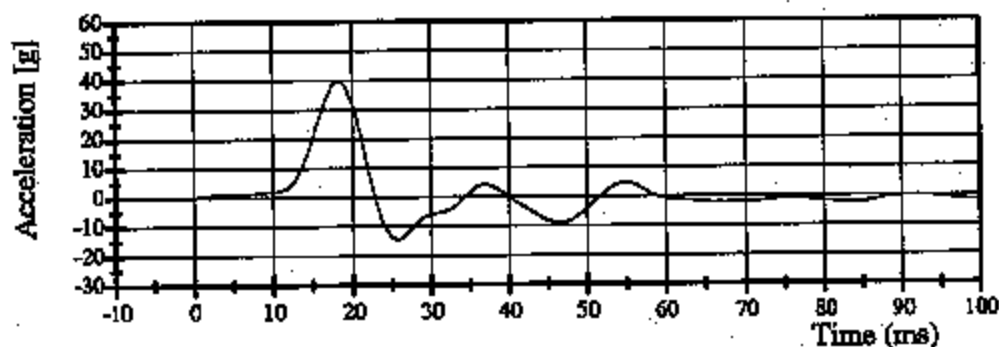


Filter Class: FIR 100

Max: 41.6 g at 18.6 ms

Min: -14.7 g at 25.5 ms

Lower Rib Bar Acceleration

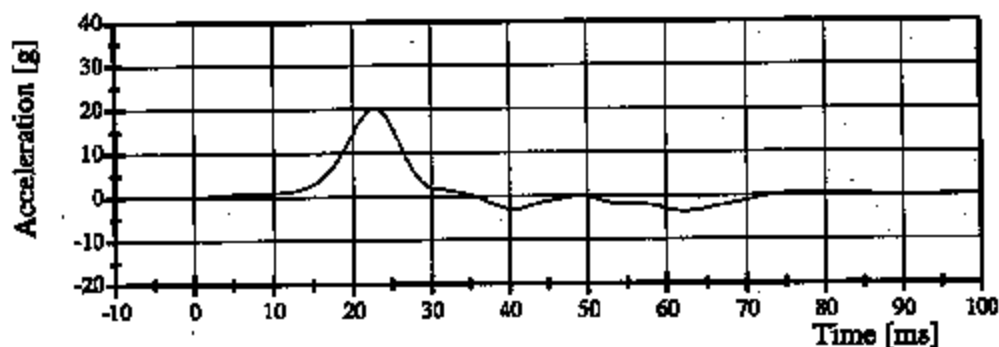


Filter Class: FIR 100

Max: 39.6 g at 18.0 ms

Min: -14.4 g at 25.5 ms

Lower Thoracic Spine (T12) Acceleration



Filter Class: FIR 100

Max: 20.2 g at 23.0 ms

Min: -3.6 g at 62.3 ms

10/27/2004 11:30:54 1167

TRE

TRANSPORTATION RESEARCH CENTER INC.

PART 572B LUMBAR FLEXION TEST

SID/HIII

CAL DATE: 21-Oct-04

TRC, INC.

TEST NO: 055C17TF1

572M SN 055 TORSO FLEX CAL 17

TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE	18.9 - 25.6° C	21.2°C
RELATIVE HUMIDITY	10 - 70 %	46 %
FORCE AT 0 DEG. FLEXION	-27 - 27 N	0 N
FORCE AT 20 DEG OF FLEXION	98 - 151 N	146.8 N
FORCE AT 30 DEG OF FLEXION	151 - 205 N	160.1 N
FORCE AT 40 DEG OF FLEXION	205 - 258 N	209.1 N
NET RETURN ANGLE AFTER 3 MINUTES	< 12 °	1.4 °

TEST MEETS SPECIFICATIONS

TECHNICIAN

Vincent Shinn

Transportation Research Center Inc.

572B Abdomen Compression Test

SID HIII Serial No. 055 Calibration No. 17 - 22

Test Date 10/25/2004

Test Parameter	Specification	Test Results	Pass
Temperature	18.9 - 25.5 °C	21.1 °C	Yes
Relative Humidity	10 - 70 %	41 %	Yes
Displacement Rate	6.35 - 8.89 mm/s	7.7 - 7.9 mm/s	Yes
Data Within Required Corridor	Yes	Yes	Yes

Test meets specifications.

Comments:

Technician

Vincent A. Davis

Approved

V. K. Walker

10.25.2004 13:37:13 1602

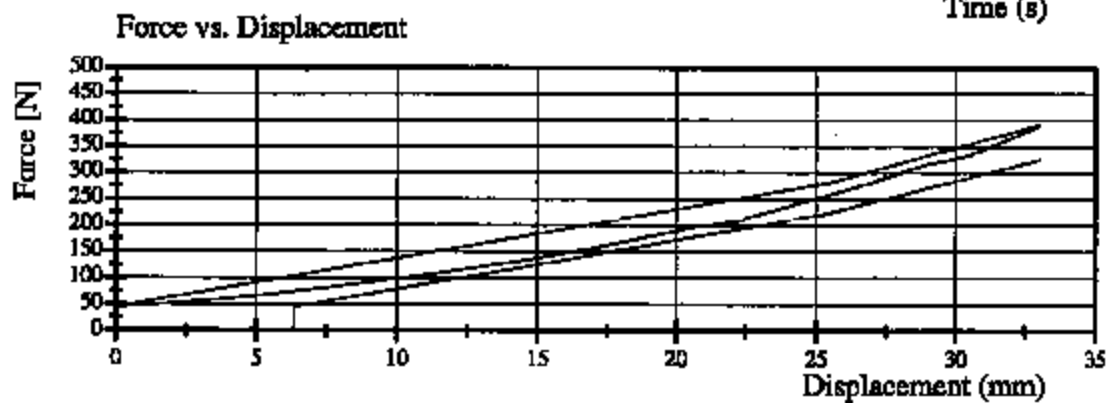
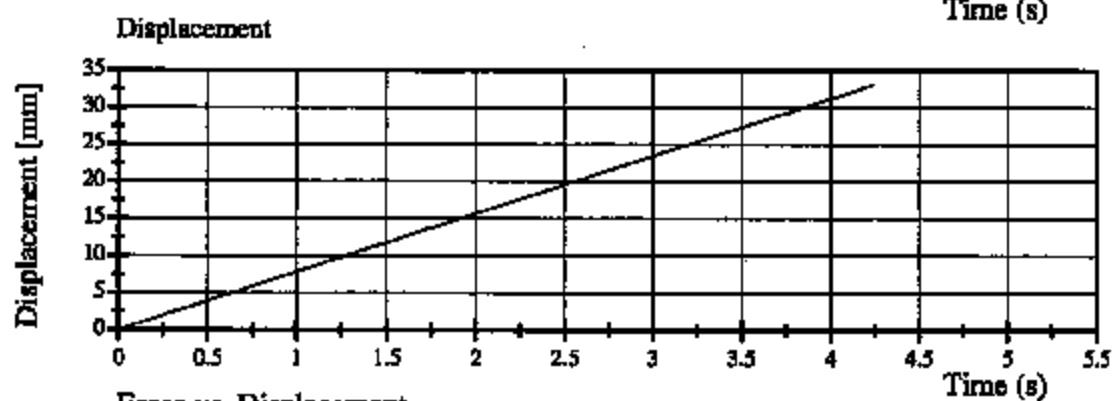
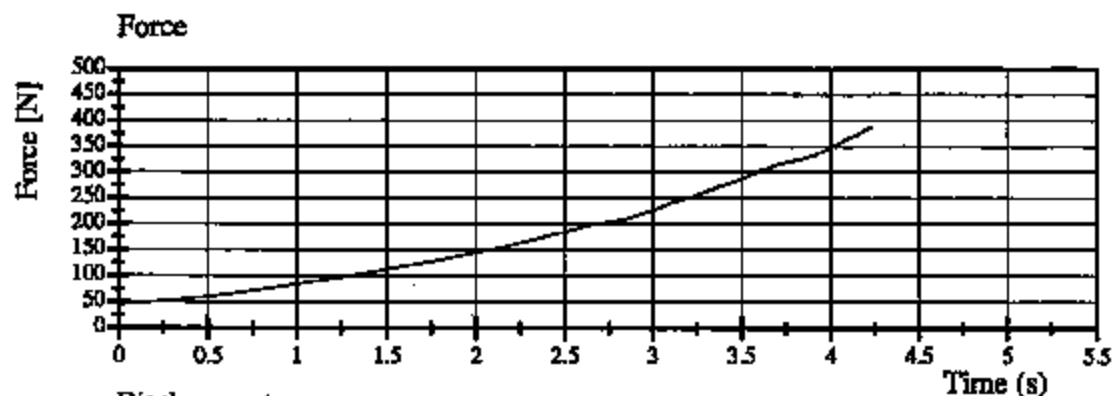
TRE

Transportation Research Center Inc.

572B Abdomen Compression Test

SID HIII Serial No. 055 Calibration No. 17 - 22

Test Date 10/25/2004



10.25.2004 13:37:14 1602

TRC

Transportation Research Center Inc.

572F Left Pelvis Test

SID HIII Serial No. 055 Calibration No. 17 - 3

Test Date 10/27/2004

Test Parameter	Specification	Test Results	Pass
Temperature	18.9 - 25.5 C	21.3 C	Yes
Relative Humidity	10 - 70 %	52 %	Yes
Pendulum Velocity	4.27 - 4.33 m/sec	4.31 m/sec	Yes
Pelvis Peak Acceleration	40 - 60 g	44.4 g	Yes
Time Above 20 g	3 - 7 ms	6.00 ms	Yes
Unimodal requirement for pelvis acceleration	Yes	Yes	Yes

Comments:

Technician

Vincent Quinn

Approved

V. K. Walter

10.27.2004 11:17:16 1131

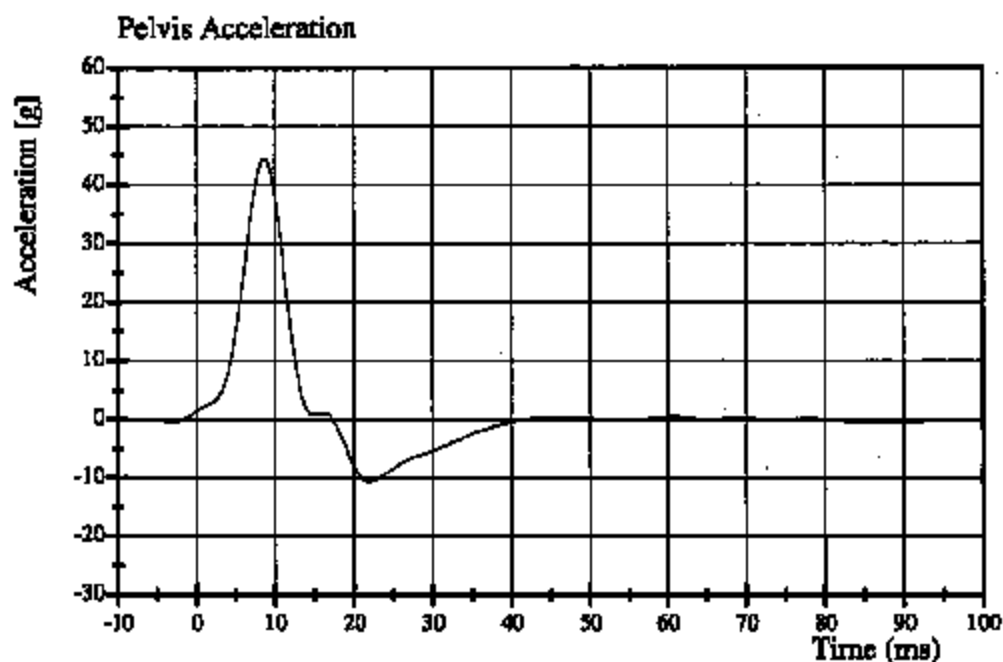
TRE

Transportation Research Center Inc.

572F Left Pelvis Test

SID HIII Serial No. 055 Calibration No. 17 - 3

Test Date 10/27/2004



Filter Class: FIR 100

Max: 44.4 g at 9.0 ms

Min: -10.6 g at 22.1 ms

10.27.2004 11:17:17 1131

TRE

Type: SID HIII S/N: 906

Mfr: _____

Test Date: 10/20/04Proj./Seg. No.: 20020455-2130Test Eng.: Walter D. Dudek

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. ClarridgeDate: 10/19/04

Type: SID HIII S/N: 055 Mfr: ASTC Test Date: 10/20/04
 Proj./Seg. No.: 20020455-2130 Test Eng.: Walter D. Dudek

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: 10/19/04

Type: SID HIII S/N: 906 Mfr: _____ Test Date: 10/20/04
Proj./Seg. No.: 20020455-2130 Test Eng.: Walter D. Dudek

ITEM	POST-USE
HEAD:	
Head Skin Condition	X
Head Ballast Condition	X
NECK:	
Rubber Condition and Separation From End Caps	X
THORAX: Left side configuration	
Jacket Condition	X
Arm Foam Condition	*
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: *Left arm foam has moderate cut at bottom.

No other damage found.

Inspection Completed By: J. Clarridge

Date: 10/21/04

Type: SID HIII S/N: 055 Mfr: ASTC Test Date: 10/20/04
Proj./Seg. No.: 20020455-2130 Test Eng.: Walter D. Dudek

ITEM	POST-USE
HEAD:	
Head Skin Condition	X
Head Ballast Condition	X
NECK:	
Rubber Condition and Separation From End Caps	X
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: No damage to report.

Inspection Completed By: J. Clarridge

Date: 10/21/04

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

10/20/2004 7:45:51 AM

Name of Test 041020-1

System

MINIDAU

Name of DAU DAUA

Chan.#	Sensor #	Mnemonic	Description	Dir.	Range	Pol. Cal.	Group	Mfg.	Model
0001	P30407	HEDXG1	Head Accel X	Rwd	789.64089	-	906n	Endevco	7264C-2K-2-180
0002	P30409	HEDYG1	Head Accel Y	Lft	807.29033	-	906n	Endevco	7264C-2K-2-180
0003	P29643	HEDZG1	Head Accel Z	Up	801.21684	-	906n	Endevco	7264C-2K-2-180
0004	P29194	HEDXR1	Head Accel X Rad	Rwd	795.60057	-	906n	Endevco	7264C-2K-2-180
0005	P30446	HEDYR1	Head Accel Y Red	Lt	796.06297	-	906n	Endevco	7264C-2K-2-180
0006	P30312	HEDZR1	Head Accel Z Red	Up	795.52863	-	906n	Endevco	7264C-2K-2-180
0007	1716A-1534-FX	NEKXF1	Neck Force X	Hd	8901.7469	-	906n	Denton	1716A
0008	1716A-1534-FY	NEKYF1	Neck Force Y	Hd	888.76699	+	906n	Denton	1716A
0009	1716A-1534-FZ	NEKZF1	Neck Force Z	Hd	13352.840	+	906n	Denton	1716A
0010	1716A-1534-MX	NEKXM1	Neck Moment X	Rt Ear	282.70393	-	906n	Denton	1716A
0011	1716A-1534-MY	NEKYM1	Neck Moment Y	Chn	282.91216	+	906n	Denton	1716A
0012	1716A-1534-MZ	NEKZM1	Neck Moment Z	Chn	282.76032	+	906n	Denton	1716A
0013	P33829	LURYG1	Left Upper Rib Y	Rgt	808.55476	+	906n	Endevco	7264C-2K-2-180
0014	P33607	LURYR1	Left Upper Rib Red Y	Rgt	784.55168	+	906n	Endevco	7264C-2K-2-180
0015	P33894	LLRYG1	Left Lower Rib Y	Rgt	794.29670	+	906n	Endevco	7264C-2K-2-180
0016	P33588	LLRYR1	Left Lower Rib Red Y	Rgt	798.29501	+	906n	Endevco	7264C-2K-2-180
0017	P33800	T12YG1	Lower Spine Y	Lft	400.93568	-	906n	Endevco	7264C-2K-2-180
0018	P33576	T12YR1	Lower Spine Red Y	Lft	402.46475	-	906n	Endevco	7264C-2K-2-180
0019	P33547	PEVYG1	Pelvis Accel Y	Lft	402.65171	-	906n	Endevco	7264C-2K-2-180
0020	P33805	PEVYR1	Pelvis Accel Red Y	Lft	398.30933	-	906n	Endevco	7264C-2K-2-180
0021	P34237	HEDXG4	Head Accel X	Rwd	792.80430	-	055n	Endevco	7264C-2K-2-180
0022	P33552	HEDYG4	Head Accel Y	Lft	808.91423	-	055n	Endevco	7264C-2K-2-180
0023	P33591	HEDZG4	Head Accel Z	Up	799.14890	-	055n	Endevco	7264C-2K-2-180
0024	P34007	HEDXR4	Head Accel X Red	Rwd	802.80819	-	055n	Endevco	7264C-2K-2-180
0025	P33556	HEDYR4	Head Accel Y Red	Lt	798.30609	-	055n	Endevco	7264C-2K-2-180
0026	P34297	HEDZR4	Head Accel Z Red	Up	800.32350	-	055n	Endevco	7264C-2K-2-180
0027	1716A-1222-FX	NEKXF4	Neck Force X	Hd	8906.9502	-	055n	Denton	1716A
0028	1716A-1222-FY	NEKYF4	Neck Force Y	Hd	8884.1691	+	055n	Denton	1716A
0029	1716A-1222-FZ	NEKZF4	Neck Force Z	Hd	13346.680	+	055n	Denton	1716A
0030	1716A-1222-MX	NEKXM4	Neck Moment X	Rt Ear	283.07099	-	055n	Denton	1716A
0031	1716A-1222-MY	NEKYM4	Neck Moment Y	Chn	282.82939	+	055n	Denton	1716A
0032	1716A-1222-MZ	NEKZM4	Neck Moment Z	Chn	283.18912	+	055n	Denton	1716A

Channel Report

10/20/2004 7:45:51 AM

Name of Test 041020-1

System MINIDAU

Name of DAU DAUC

Chan.#	Sensor #	Mnemonic	Description	Dir.	Range	Pol. Cal.	Group	Mfg.	Model
0001	P34348	LURYG4	Left Upper Rib Y	Rgt	800.61296	+	055n	Endevco	7264C-2K-2-180
0002	P31875	LURYR4	Left Upper Rib Red Y	Rgt	808.33762	+	055n	Endevco	7264C-2K-2-180
0003	P34029	LLRYG4	Left Lower Rib Y	Rgt	797.60320	+	055n	Endevco	7264C-2K-2-180
0004	P33541	LLRYR4	Left Lower Rib Red Y	Rgt	808.04152	+	055n	Endevco	7264C-2K-2-180
0005	P34275	T12YG4	Lower Spine Y	Lft	401.65292	-	055n	Endevco	7264C-2K-2-180
0006	P33847	T12YR4	Lower Spine Red Y	Lft	398.78035	-	055n	Endevco	7264C-2K-2-180
0007	P34025	PEVYG4	Pelvis Accel Y	Lft	399.66303	-	055n	Endevco	7264C-2K-2-180
0008	P33878	PEVYR4	Pelvis Accel Red Y	Lft	399.43638	-	055n	Endevco	7264C-2K-2-180
0009	P33615	RFSXG1	RGT SIDE SILL FRNT ST X	FWD	399.15706	+	055n	Endevco	7264C-2K-2-180
0010	P37759	RFSYG1	RGT SIDE SILL FRNT ST Y	LT	993.17194	-	055n	Endevco	7264C-2K-2-180
0011	P33819	RFSZG1	RGT SIDE SILL FRNT ST Z	UP	399.66478	-	055n	Endevco	7264C-2K-2-180
0012	P33598	RRSXG1	RGT SIDE SILL RR ST X	FWD	399.65514	+	055n	Endevco	7264C-2K-2-180
0013	P34971	RRSYG1	RGT SIDE SILL RR ST Y	LT	987.14018	-	055n	Endevco	7264C-2K-2-180
0014	P29507	RRSZG1	RGT SIDE SILL RR ST Z	UP	399.98656	-	055n	Endevco	7264C-2K-2-180
0015	P33603	RDKXG1	RR FLR PAN ABV AXLE X	FWD	1009.8017	+	055n	Endevco	7264C-2K-2-180
0016	P33612	RDKYG1	RR FLR PAN ABV AXLE Y	LT	984.27088	-	055n	Endevco	7264C-2K-2-180
0017	P33534	RDKZG1	RR FLR PAN ABV AXLE Z	UP	1015.4837	-	055n	Endevco	7264C-2K-2-180
0018	P40049	LRSYG1	LFT SIDE SILL RR ST Y	RT	997.11926	+	055n	Endevco	7264C-2K-2-180
0019	P40052	LFSYG1	LFT SIDE SILL FRNT ST Y	RT	1017.8268	+	055n	Endevco	7264C-2K-2-180
0020	P40048	RRTYG1	RGT RR OCP COMP Y	RT	1464.4990	+	055n	Endevco	7264C-2K-2-180
0021	P33751	LLBYG1	LFT LOWER B-POST Y	RT	1552.2875	+	055n	Endevco	7264C-2K-2-180
0022	P34253	LUBYG1	LFT MID B-POST Y	RT	1456.6393	+	055n	Endevco	7264C-2K-2-180
0023	P34717	LLAYG1	LFT LOWER A-POST Y	LT	1542.1686	-	055n	Endevco	7264C-2K-2-180
0024	P33852	LUAYG1	LFT MID A-POST Y	LT	1510.6257	-	055n	Endevco	7264C-2K-2-180
0025	P40051	LFTYG1	LFT FRNT SEAT TRACK Y	LT	1502.1279	-	055n	Endevco	7264C-2K-2-180
0026	P33932	LRTYG1	LFT RR SEAT TRACK Y	RT	1478.5150	+	055n	Endevco	7264C-2K-2-180
0027	P27933	VCXG1	VEH C/G X	FWD	1016.5519	+	055n	Endevco	7264C-2K-2-180
0028	P34086	VCYG1	VEH C/G Y	LT	1019.1070	-	055n	Endevco	7264C-2K-2-180
0029	P33563	VCZG1	VEH C/G Z	UP	983.53633	-	055n	Endevco	7264C-2K-2-180

041020-1

Channel Report

10/20/2004 7:45:52 AM

Name of Test 041020-1

System MINIDAU

Name of DAU DAUD

Chan.#	Sensor #	Mnemonic	Description	Dir.	Range	Pol	Cal	Group	Mfg.	Model
0001	EVENT	EVENT	EVENT		5.12	V	+	4/19/2004	OK	-1
0002	P30027	BCGXG1	MDB Center of Gravity X-axis	FWD	593.69587	g	+	7/9/2004	OK	-1
0003	P34234	BCGYG1	MDB Center of Gravity Y-axis	LT	604.09001	g	-	9/30/2004	OK	-1
0004	P35218	BCJZG1	MDB Center of Gravity Z-axis	UP	593.89207	g	-	10/15/2004	OK	-1
0005	P28084	LRRXG1	MDB Left Rear X-axis	FWD	606.80963	g	+	7/9/2004	OK	-1
0006	P35222	LRRYG1	MDB Left Rear Y-axis	LT	594.17375	g	-	10/15/2004	OK	-1
									TRC	Event
									Endevco	7264C-2K-2-180
									Endevco	7264C-2K-2-180
									Endevco	7264C-2K-2-180
									Endevco	7264C-2K-2-180
									Endevco	7264C-2K-2-180
									Endevco	7264C-2K-2-180

Digital and System Channel Report

2004-10-20 07:45:10

Name of Test 041020-1
 enable Channel Yes 0501
 Short Name DIGD
 System MINIDAU
 Name of DAU DAUD
 Data File DAUD0501
 Module Type KM3710 Controller
 description

bit position	bit	short	long	description
MSB - bit 15	1	MDBRI		M
bit 14	1	MDBLI		O
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			

Dummy	906n	Type	SID/H3	Description	Name	Model	Manufacturer	Sens/Jm/V/V/U	Fullscal	Calcdat	Pos Output	Flip
CHANN												
HEDXG	Head Accel X				1716A-1534-FX	7264C-2K-2-18 P30407	Endevco	0.018011	2000	9/16/2004	Rwd	1
HEDYG	Head Accel Y				1716A-1534-FY	7264C-2K-2-18 P30409	Endevco	0.0275748	2000	9/16/2004	Lft	1
HEDZG	Head Accel Z				1716A-1534-FZ	7264C-2K-2-18 P29643	Endevco	0.0319514	2000	9/16/2004	Up	1
HEDXR	Head Accel X Red				1716A-1534-MX	7264C-2K-2-18 P29194	Endevco	0.022191	2000	9/16/2004	Rwd	1
HEDYR	Head Accel Y Red				1716A-1534-MY	7264C-2K-2-18 P30446	Endevco	0.0178657	2000	9/16/2004	Lft	1
HEDZR	Head Accel Z Red				1716A-1534-MZ	7264C-2K-2-18 P30312	Endevco	0.0178777	2000	9/16/2004	Up	1
NEKXF	Neck Force X						Denton	0.0001892	8896.4	9/10/2004	Hd Fd, Cat Rc	1
NEKYF	Neck Force Y						Denton	0.0001731	8896.4	9/10/2004	Hd Lt, Cat Rl	0
NEKZF	Neck Force Z						Denton	0.0008961	13344.6	9/10/2004	Hd Up, Cat Dn	0
NEKXM	Neck Moment X						Denton	0.0058422	282.5	9/10/2004	Rt Ear to Rt Shld	1
NEKYM	Neck Moment Y						Denton	0.0058379	282.5	9/10/2004	Chn to Strum	0
NEKZM	Neck Moment Z						Denton	0.0081564	282.5	9/10/2004	Chn to Lt Shld	0
LURYG	Left Upper Rib Y						Endevco	0.0154446	2000	9/14/2004	Rgt	0
LURYR	Left Upper Rib Red Y						Endevco	0.028374	2000	9/14/2004	Rgt	0
LLRYG	Left Lower Rib Y						Endevco	0.0207934	2000	9/14/2004	Rgt	0
LLRYR	Left Lower Rib Red Y						Endevco	0.0221161	2000	9/14/2004	Rgt	0
T12YG	Lower Spine Y						Endevco	0.0228038	2000	9/14/2004	Lft	1
T12YR	Lower Spine Red Y						Endevco	0.0208551	2000	9/14/2004	Lft	1
PEVYG	Pelvis Accel Y						Endevco	0.0235476	2000	9/14/2004	Lft	1
PEVYR	Pelvis Accel Red Y						Endevco	0.0204037	2000	9/14/2004	Lft	1

D-10

Wednesday, October 20, 2004

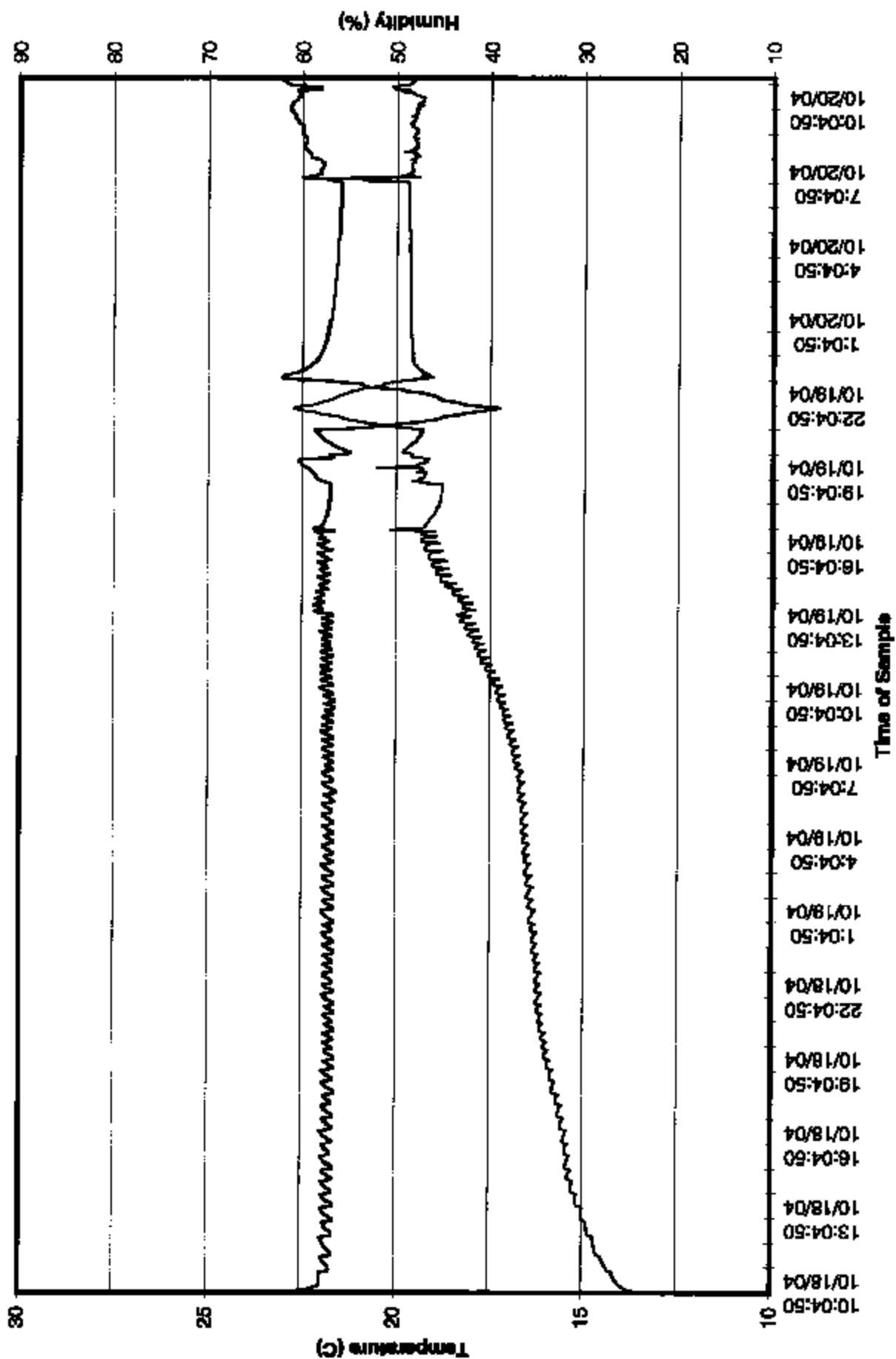
041020-1

Dummy 055n Type SID/H3 Description NHISA - 035n SID-LEFT IMP, CONFIG. w/RED ACCELS ICAL'd 9-14-04(DKS-04)J211

Channel	Location	Model	Name	Manufacturer	Serial/V/V/U	Pull/Cal	Calidat	Pos Output	Flip
HEDXG	Head Accel X	7264C-2K-2-18	P34237	Endevco	0.0248388 g	2000	9/16/2004	Rwd	1
HEDYG	Head Accel Y	7264C-2K-2-18	P33552	Endevco	0.0197796 g	2000	9/16/2004	Lft	1
HEDZG	Head Accel Z	7264C-2K-2-18	P33591	Endevco	0.0200213 g	2000	9/16/2004	Up	1
HEDXR	Head Accel X Red	7264C-2K-2-18	P34007	Endevco	0.0193261 g	2000	9/16/2004	Rwd	1
HEDYR	Head Accel Y Red	7264C-2K-2-18	P33556	Endevco	0.0213786 g	2000	9/16/2004	Lt	1
HEDZR	Head Accel Z Red	7264C-2K-2-18	P34297	Endevco	0.0193861 g	2000	9/16/2004	Up	1
NEKXF	Neck Force X	1716A	1716A-1222-FX	Denton	0.0001942 N	8896.4	9/16/2004	Hd Fd Cat Rr	1
NEKYF	Neck Force Y	1716A	1716A-1222-FY	Denton	0.0001902 N	8896.4	9/16/2004	Hd Lt Cat Rr	0
NEKZF	Neck Force Z	1716A	1716A-1222-FZ	Denton	0.0000999 N	13344.6	9/16/2004	Hd Up Cat Dn	0
NEKXM	Neck Moment X	1716A	1716A-1222-MX	Denton	0.0061313 N-m	282.5	9/16/2004	Rt Bar to Rt Shld	1
NEKYM	Neck Moment Y	1716A	1716A-1222-MY	Denton	0.0059943 N-m	282.5	9/16/2004	Chn to Strm	0
NEKZM	Neck Moment Z	1716A	1716A-1222-MZ	Denton	0.0084485 N-m	282.5	9/16/2004	Chn to Lt Shld	0
LURYG	Left Upper Rib Y	7264C-2K-2-18	P34348	Endevco	0.0319755 g	2000	9/14/2004	Rgt	0
LURXR	Left Upper Rib Red Y	7264C-2K-2-18	P31875	Endevco	0.0191939 g	2000	9/14/2004	Rgt	0
LURYG	Left Lower Rib Y	7264C-2K-2-18	P34029	Endevco	0.0207072 g	2000	9/14/2004	Rgt	0
LURXR	Left Lower Rib Red Y	7264C-2K-2-18	P33541	Endevco	0.0186362 g	2000	9/14/2004	Rgt	0
T12YG	Lower Spine Y	7264C-2K-2-18	P34275	Endevco	0.0205602 g	2000	9/14/2004	Lft	1
T12YR	Lower Spine Red Y	7264C-2K-2-18	P33847	Endevco	0.0251748 g	2000	9/14/2004	Lft	1
PEVYG	Pelvis Accel Y	7264C-2K-2-18	P34025	Endevco	0.0188394 g	2000	9/14/2004	Lft	1
PEVYR	Pelvis Accel Red Y	7264C-2K-2-18	P33878	Endevco	0.0185769 g	2000	9/14/2004	Lft	1

D-11

FMVSS 214 Left Side Impact of 2005 Scion TC / 041020-1



DESCRIPTION:

YEAR/MODEL:

COLOR:

VIN:

PORT/PLANT:

MECHANICAL AND

- 2.4L 4-Cyl DOHC 16V
- 5-Speed Manual Trans
- Power-Assisted Rack & Pinion
- 4-Wheel Disc Brakes
- Sport Tuned Independent Suspension
- Front and Double Wishbone
- P205/46ZR17 All-Season Tires

SAFETY

- 4-Wheel ABS w/Brake Lock
- Dr & Fr Pass Dual Side-Impact Protection
- Driver Knee Airbag
- Dr & Fr Pass Seat Belts w/Force Limiters
- Three Across 3-Point Seat Belts and Head Curtain
- Side Impact Door Beam

EXTERIOR

- 17x7.0" Split Six Spoke Wheel
- w/Graphite Finish/Chrome
- Multi-Reflector Halogen Headlights
- Pwr Outside Mirrors w/Heated Glass

Scion is a marque of Toyota.



New Vehicle Limited Warranty provides 36 months/50,000 miles w/ unlimited mileage coverage. Powertrain Limited Powertrain coverage, plus 5-year body and corrosion protection warranty. See Owner's Manual for more information. Details. An extended service contract may be available for this vehicle. See dealer for details. Manufacturer's suggested retail price includes manufacturer's recommended equipment and delivery charges. Destination, license and title fees, as well as federal, state and local taxes and dealer-installed options and accessories are not included in the manufacturer's suggested retail price.

EQUIPMENT

- Variable-Inter Fr Windshield Wipers
- Rr Fender Mounted Antenna

COMFORT AND CONVENIENCE

- Panorama Glas Moonroof w/Pwr Tilt/Slide
- Sport Fr Bucket Seats w/ Adj Headrests
- Dr Seat w/Height & Seat Bottom Angle Adj
- Dr Seat One-Touch Walk In w/Slide & Seat Angle Memory/Pully Recln Fr Seats
- 60:40 Split Fold-Down & Recln Rr Seats
- Pioneer 180 Watt AM/FM/CD with 6 Spkrs & Scion Sound Processing (SSP)*
- Air Conditioner w/Soft Touch Controls
- Two-Tiered Fabric Covered Center Console
- Pwr Door Locks w/In-Key Remote Entry
- Pwr Windows w/One-Touch Auto Up/Down
- Cruise Control/Rr Window Defogger
- Tilt Steering Wheel/Auto Off Headlights
- Cargo Area Cover & Underbody Protection
- Vanity Mirrors w/Cover
- Outside Temp Gauge
- 12V Power Point & 2x USB
- Full Tank of Gas

*Customers should refer to the appropriate

Compare this vehicle to others in the FREE FUEL ECONOMY GUIDE available at the dealer.

CITY MPG

22

Fuel Economy
Information



29

For Comparisons Shopping,
all vehicles classified as

SUB-COMPACT

have been tested
mileage ratings
from

see www.fueleconomy.gov

SIDE IMPACTOR BARRIER CERTIFICATION

Date: October 12, 2004

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

PURCHASE ORDER INFORMATION

Customer P.O. Number: 032679
Work Order Number: 23228
Plascore Part Number: 18723
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: 101A0804

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.

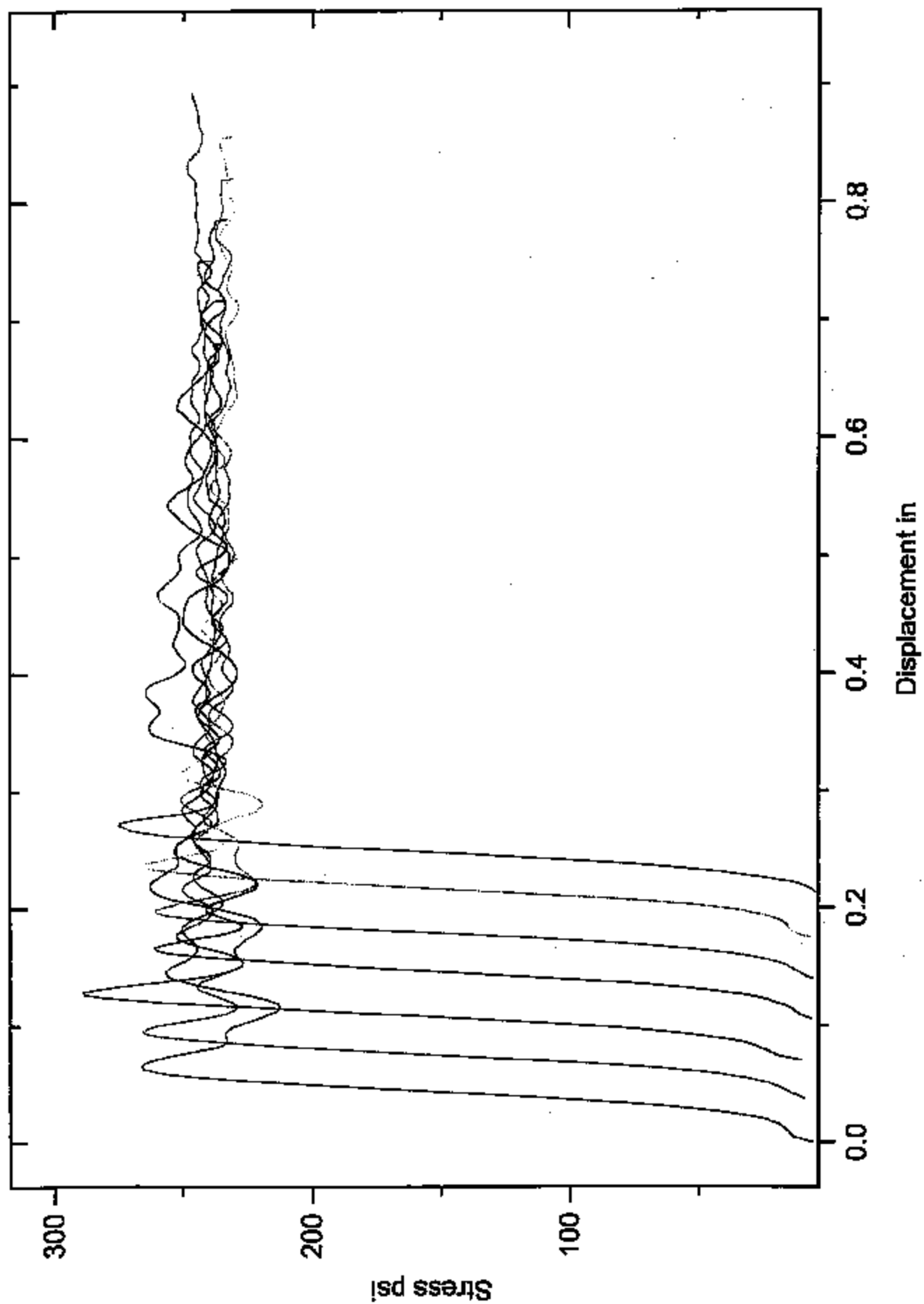

Quality Control Representative
James P. Tomczak



Crush Data232 - 250 psi per DWG # DSL-1285**Block Number: 101A0804**

<u>Specimen Number</u>	<u>Zone 1</u>	<u>Zone 2</u>	<u>Zone 3</u>
1	237.46	242.50	245.06
2	238.64	241.75	242.77
3	240.79	238.03	240.10
4	239.34	238.06	238.37
5	233.82	234.10	235.04
6	235.35	233.12	233.66
7	248.01	244.50	245.70

BLOCK#101A0804 Sample ID: IN231148



SIDE IMPACTOR BARRIER CERTIFICATION

Date: October 12, 2004
To: Transportation Research
Ship & Rec Bldg 50
10820 St. Route 347
East Liberty, OH 43319-0367

PURCHASE ORDER INFORMATION

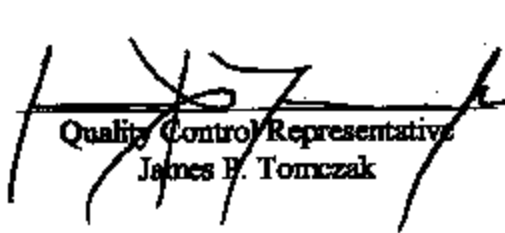
Customer P.O. Number: 032679
Work Order Number: 23228
Plascore Part Number: 18723
Quantity: 01 piece

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: 028A1004

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-1285

Block Number: 028A1004

<u>Specimen Number</u>	<u>Zone 1</u>	<u>Zone 2</u>	<u>Zone 3</u>
1	47.13	47.06	47.38
2	45.23	46.05	46.11
3	46.24	45.81	46.58
4	47.25	47.35	46.50
5	46.84	46.86	47.18
6	46.74	46.58	47.05
7	45.13	45.68	45.64

BLOCK # 028A1004 Sample ID: IN333071

