

Test Vehicle Instrumentation Plots

Acceleration Data - Filter Class 60

Integration Data - Filter Class 180



40/24 kph 90 Degree Side Impact (MDB) into Left Side of 2006 Mitsubishi Eclipse

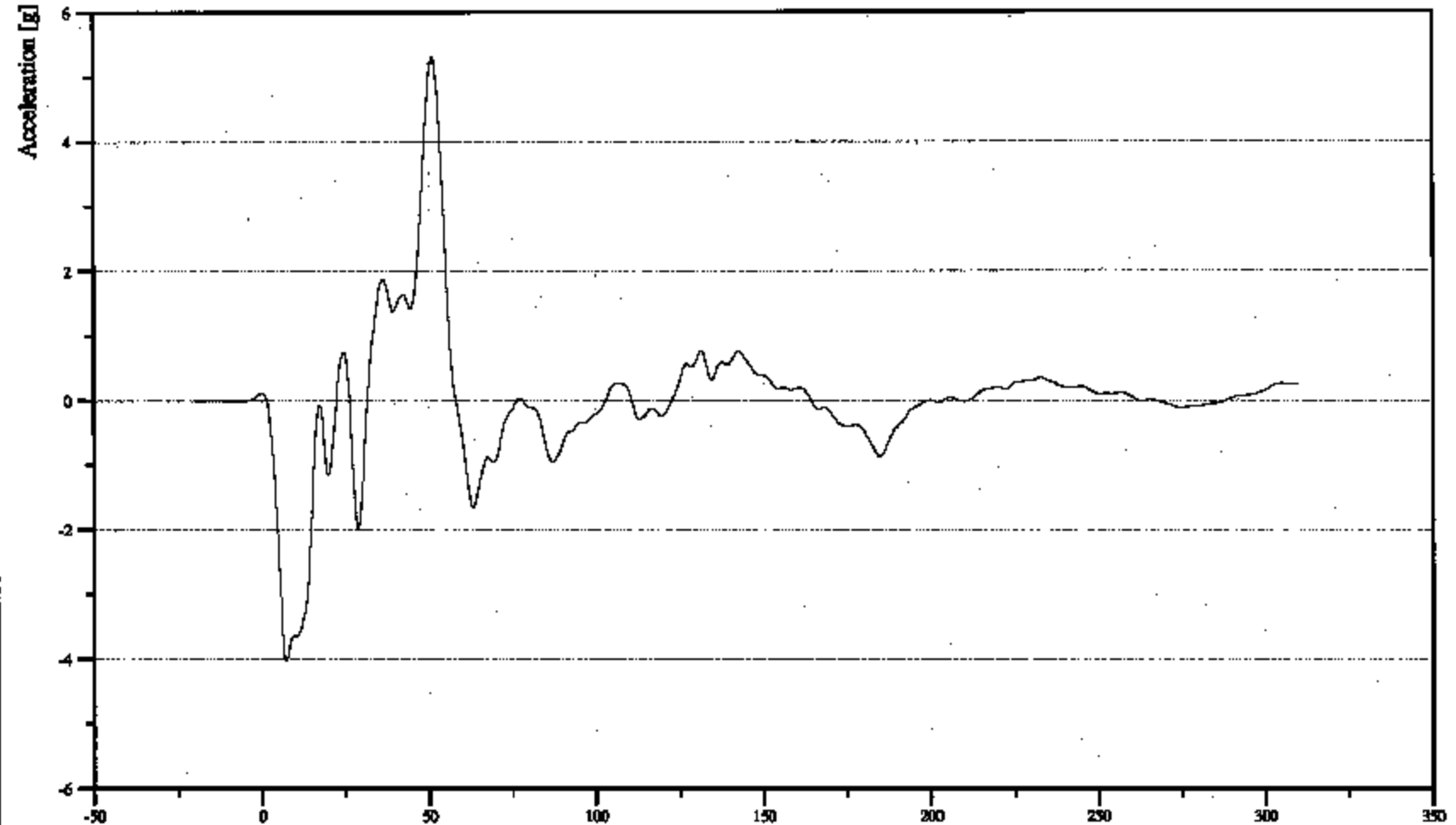
05/17/2005
Time: 12:15

RIGHT SIDE SILL AT FRONT SEAT (X) ACCELERATION VS TIME (#1)

Customer: NHTSA

16SILBFR0000ACXD

TRC Inc. Test Lab: CTF
Test Number: 051017



Filter: CFC_60

Min. Value
-4.03 g at 7.20 ms

Max. Value
5.31 g at 51.12 ms

Time [ms]

B-23

051017



24 kph 90 Degree Side Impact (MDB) into Left Side of 2006 Mitsubishi Eclipse

051017/2005
Time: 12:15

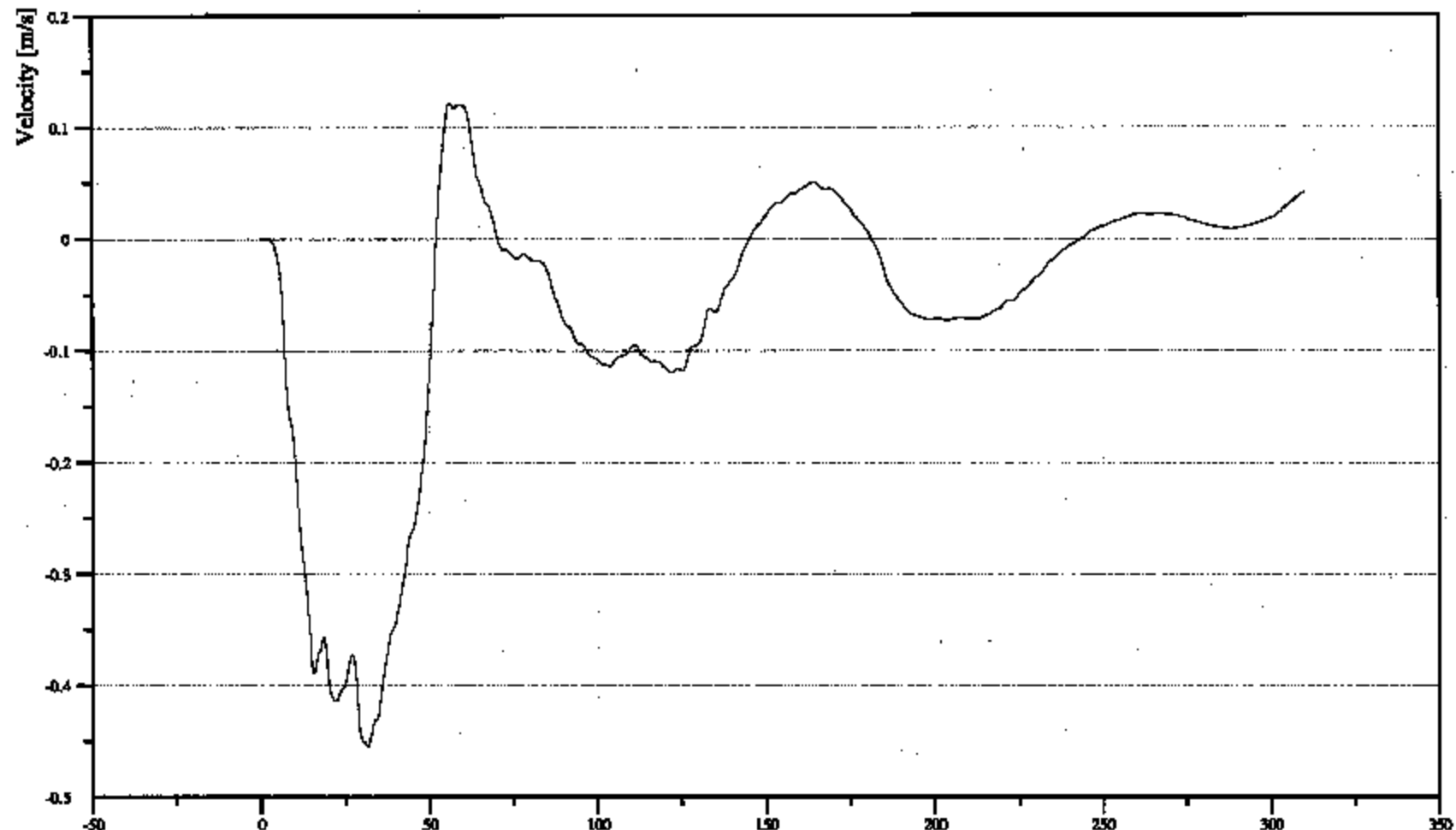
RIGHT SIDE SILL AT FRONT SEAT (X) VELOCITY VS TIME (#1)

Customer: NHTSA

16SILBFR0000VEXC

TRC Inc. Test Lab: CTF

Test Number: 051017



Filter: CFC_180

Min. Value
-0.45 m/s at 31.52 ms

Max. Value
0.12 m/s at 56.08 ms

Time [ms]

B-24

051017



36/24 kph 90 Degree Side Impact (MDB) into Left Side of 2006 Mitsubishi Eclipse

05/17/2005
Time: 12:15

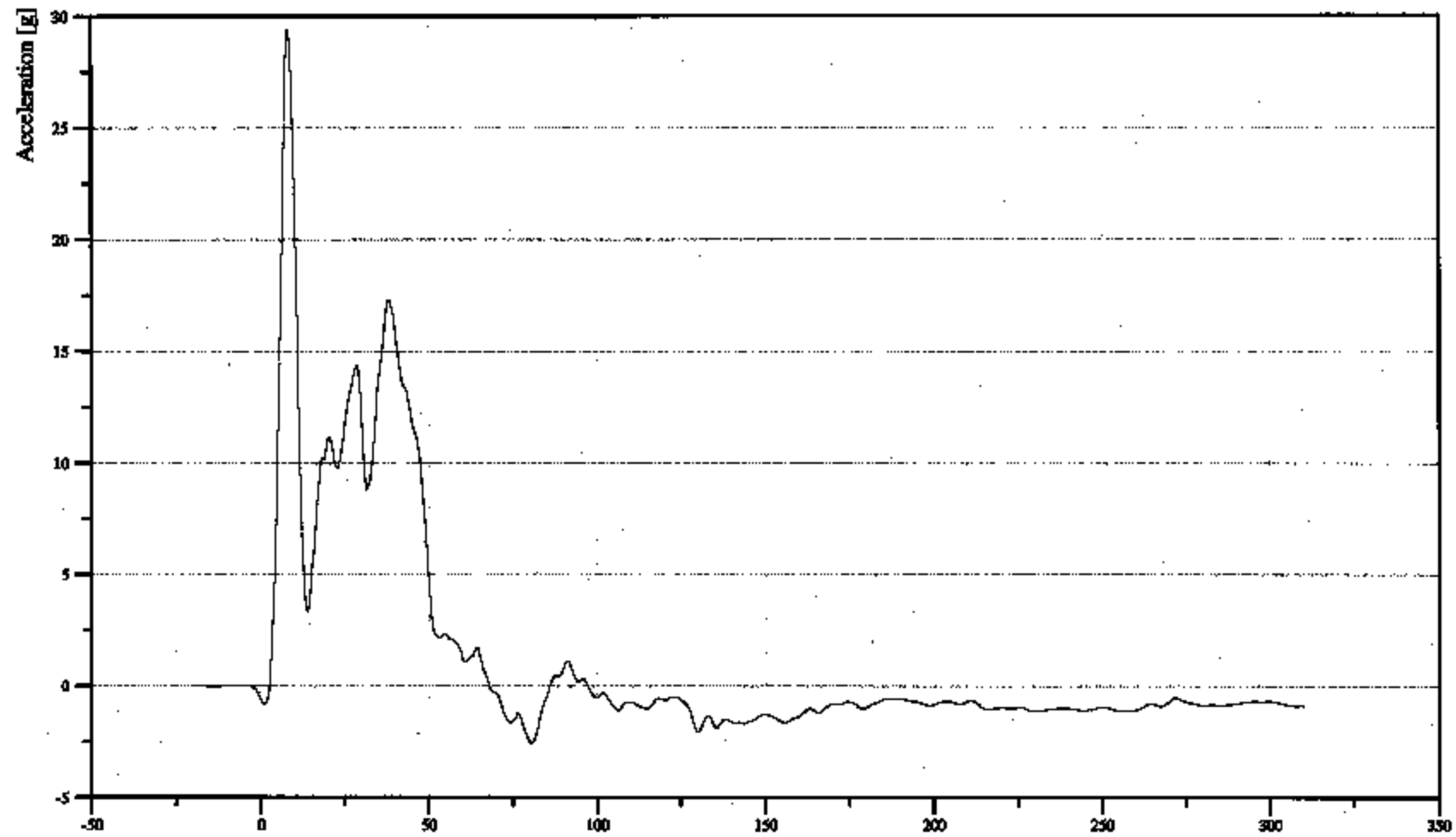
RIGHT SIDE SILL AT FRONT SEAT (Y) ACCELERATION VS TIME (#1)

Customer: NHTSA

16SILBFR0000ACYD

TRC Inc. Test Lab: CTF

Test Number: 051017



Filter: CFC_60

Min. Value
-2.53 g at 80.40 ms

Max. Value
29.41 g at 8.32 ms

B-25

051017



24 kph 90 Degree Side Impact (MDB) into Left Side of 2006 Mitsubishi Eclipse

05/17/2005
Time: 12:15

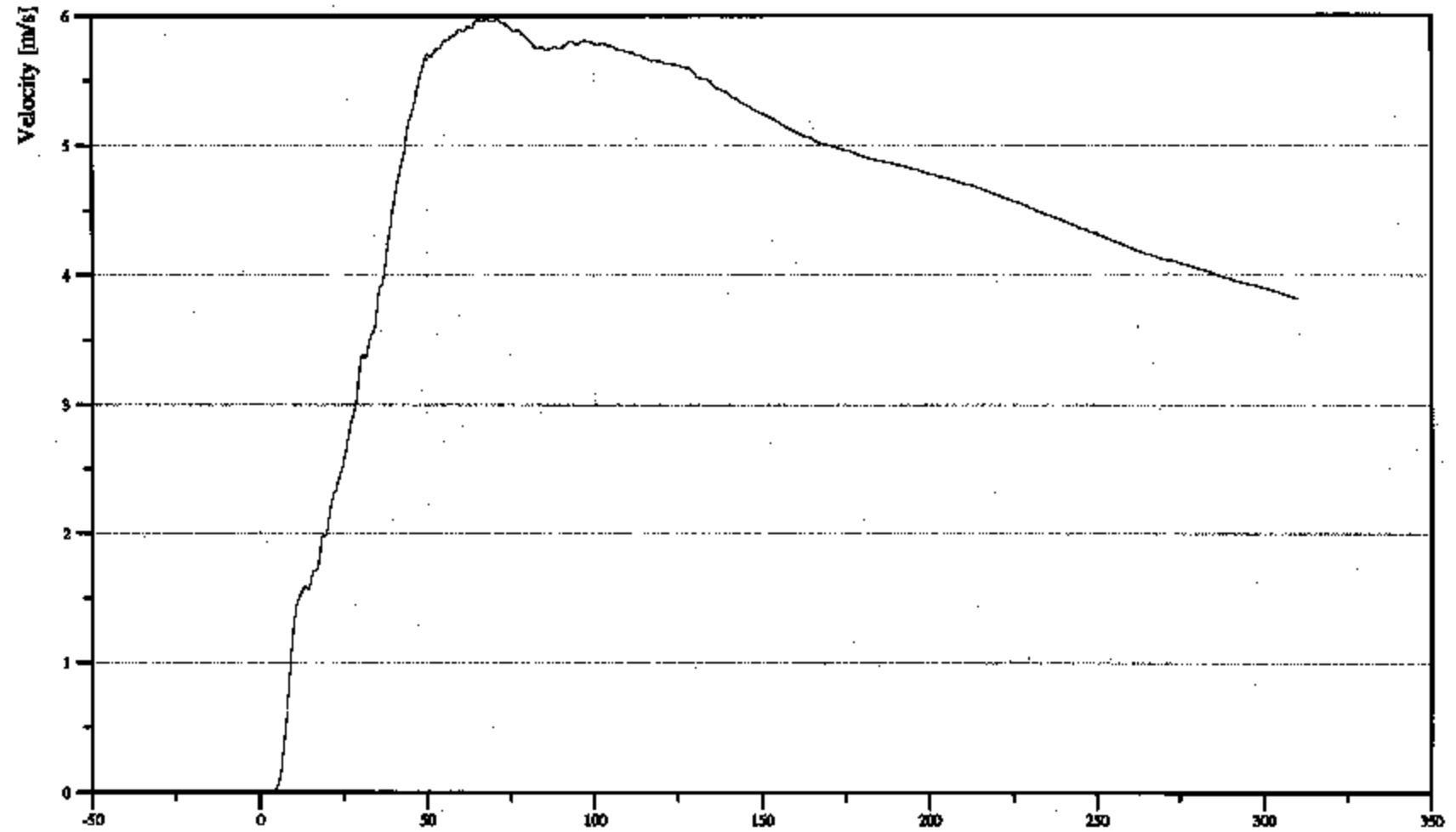
RIGHT SIDE SILL AT FRONT SEAT (Y) VELOCITY VS TIME (#1)

Customer: NHTSA

16SILBFR0000VEYC

TRC Inc. Test Lab: CTF

Test Number: 051017



Filter: CPC_180

Min. Value
0.00 m/s at 0.00 ms

Max. Value
5.98 m/s at 65.28 ms

Time [ms]

B-26

051017



31/24 kph 90 Degree Side Impact (MDB) into Left Side of 2006 Mitsubishi Eclipse

05/17/2005
Time: 12:15

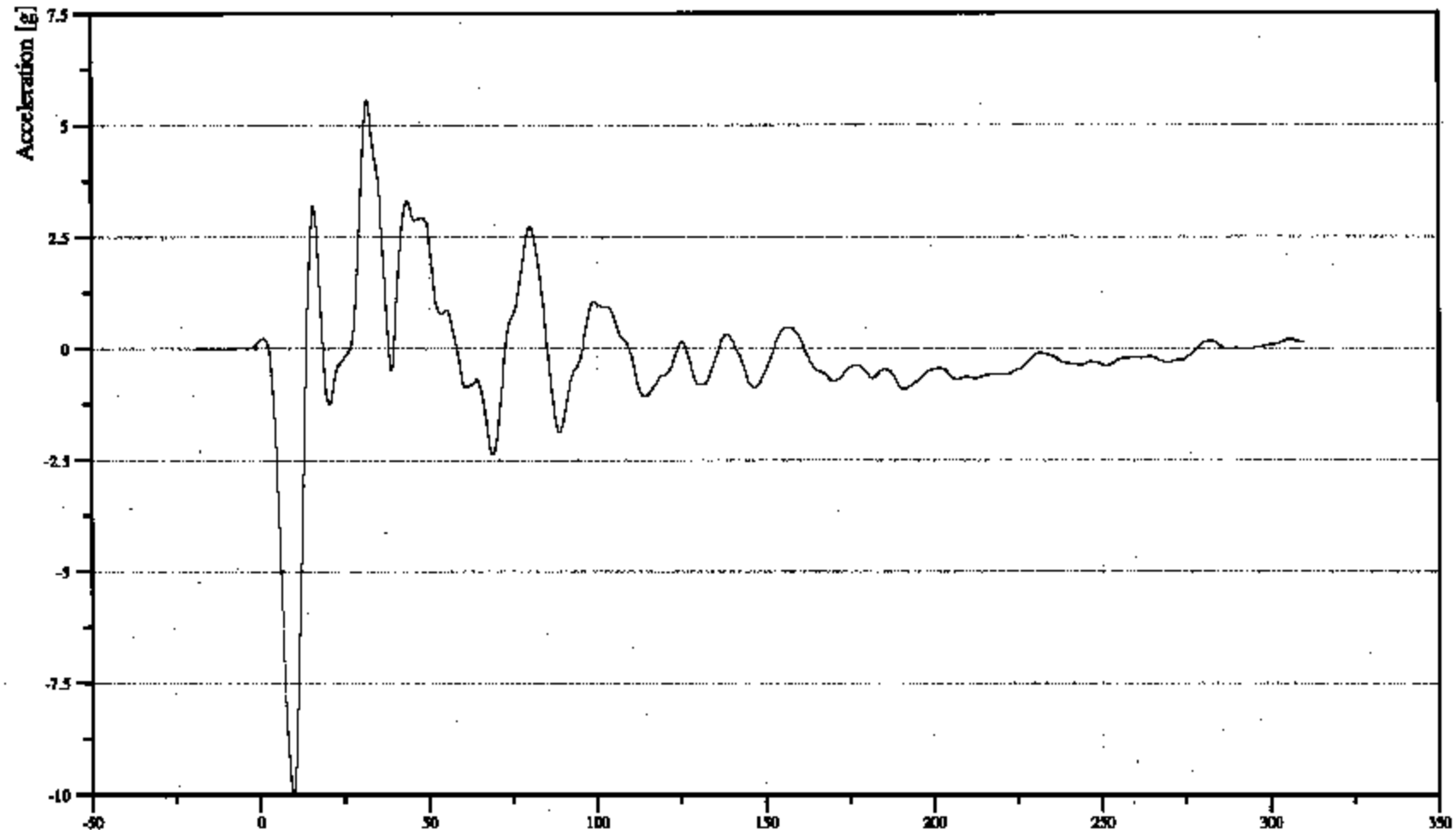
RIGHT SIDE SILL AT FRONT SEAT (Z) ACCELERATION VS TIME (#1)

Customer: NHTSA

16SILBFR0000ACZD

TRC Inc. Test Lab: CTF

Test Number: 051017



Filter: CFC_60

Min. Value
-9.97 g at 9.68 ms

Max. Value
5.56 g at 31.76 ms

B-27

051017



24 kph 90 Degree Side Impact (MDB) into Left Side of 2006 Mitsubishi Eclipse

05/17/2005

RIGHT SIDE SILL AT FRONT SEAT (Z) VELOCITY VS TIME (#1)

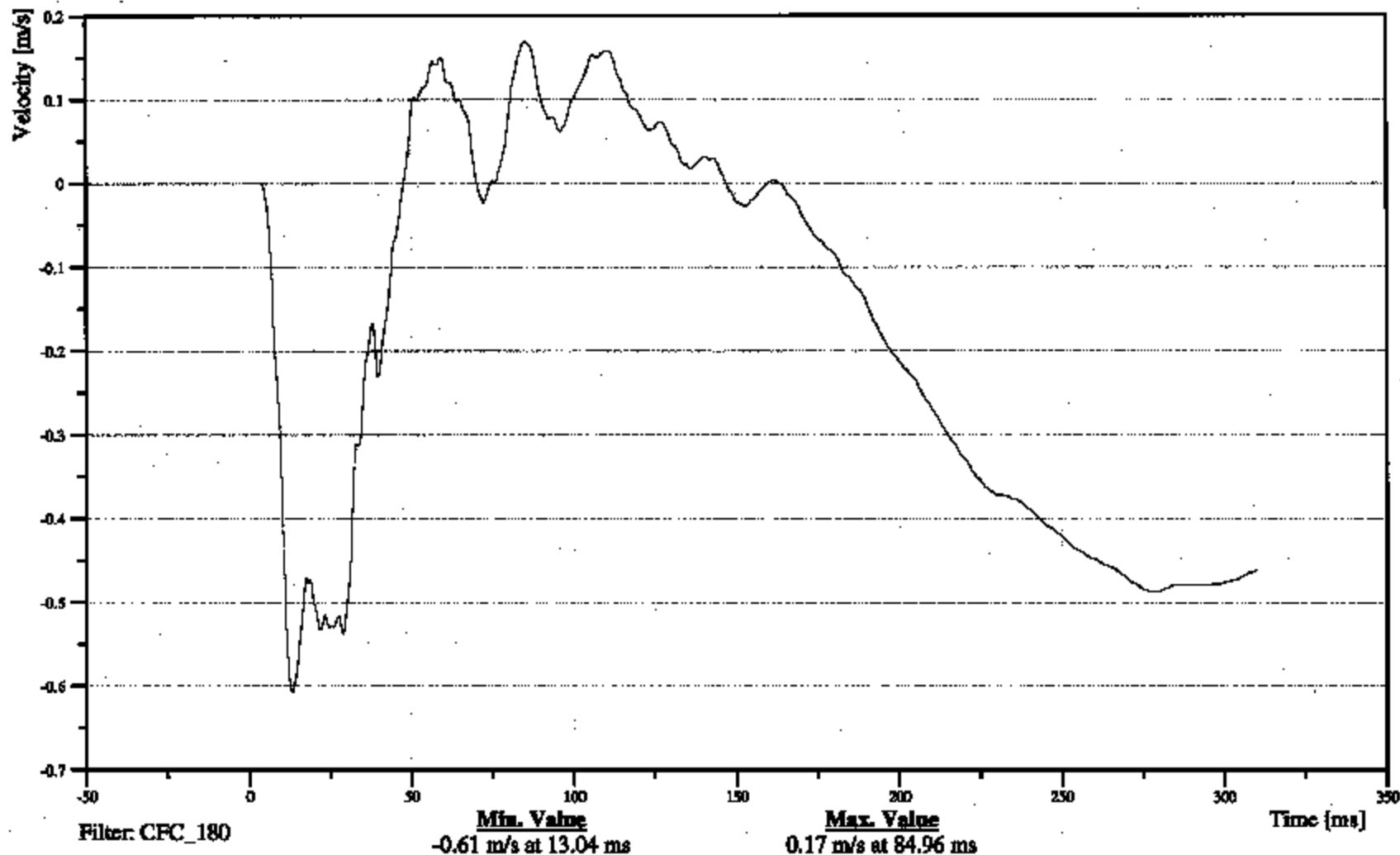
Time: 12:13

Customer: NHTSA

16SILBFR0000VEZC

TRC Inc. Test Lab: CTF

Test Number: 051017



B-28

051017



24 kph 90 Degree Side Impact (MDB) into Left Side of 2006 Mitsubishi Eclipse

05/17/2005
Time: 12:15

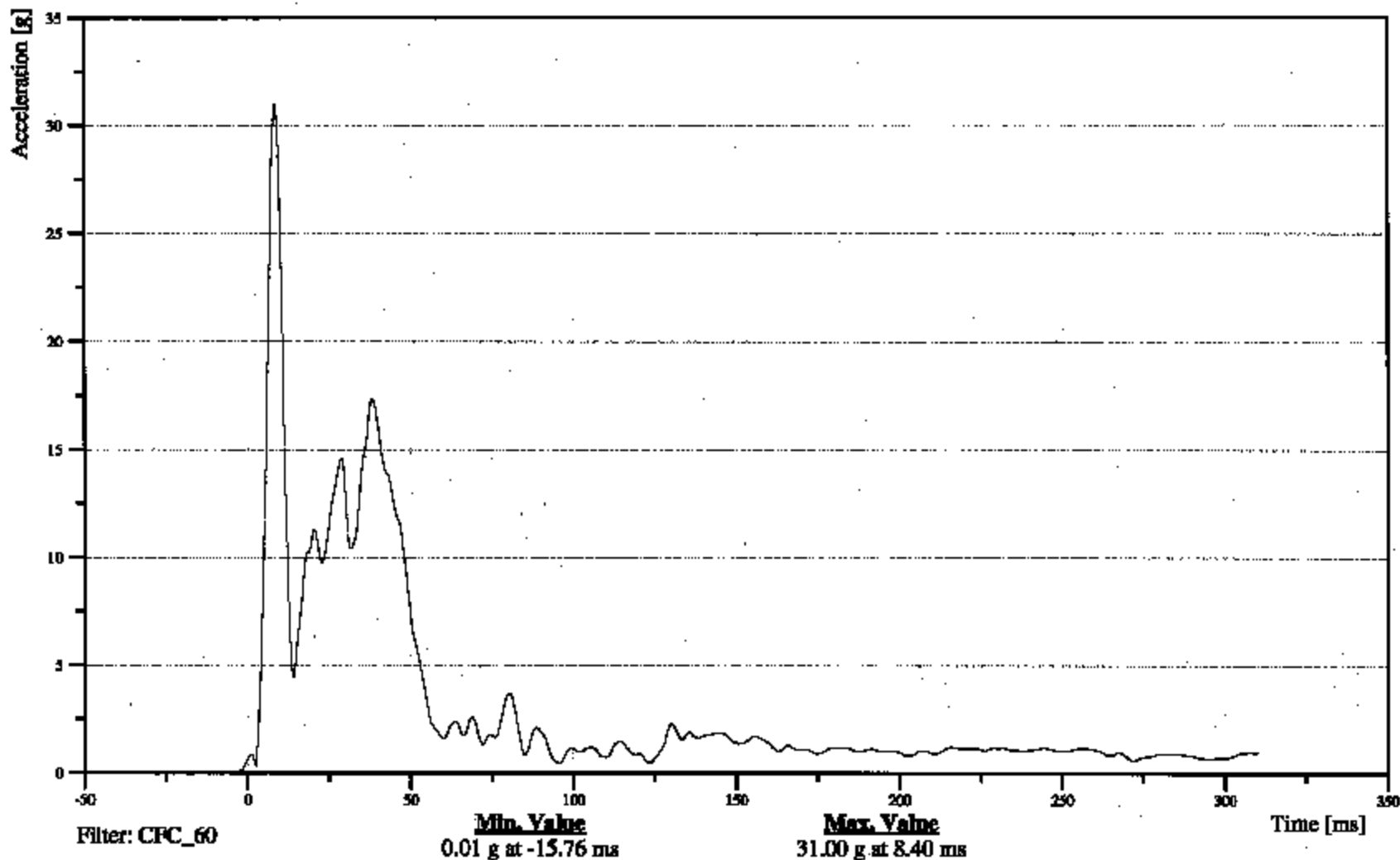
RIGHT SIDE SILL AT FRONT SEAT RESULTANT ACCELERATION VS TIME (#1)

Customer: NHTSA

16SILBFR0000ACRD

TRC Inc. Test Lab: CTF

Test Number: 051017



B-29

051017



24 kph 90 Degree Side Impact (MDB) into Left Side of 2006 Mitsubishi Eclipse

05/17/2005

Time: 12:15

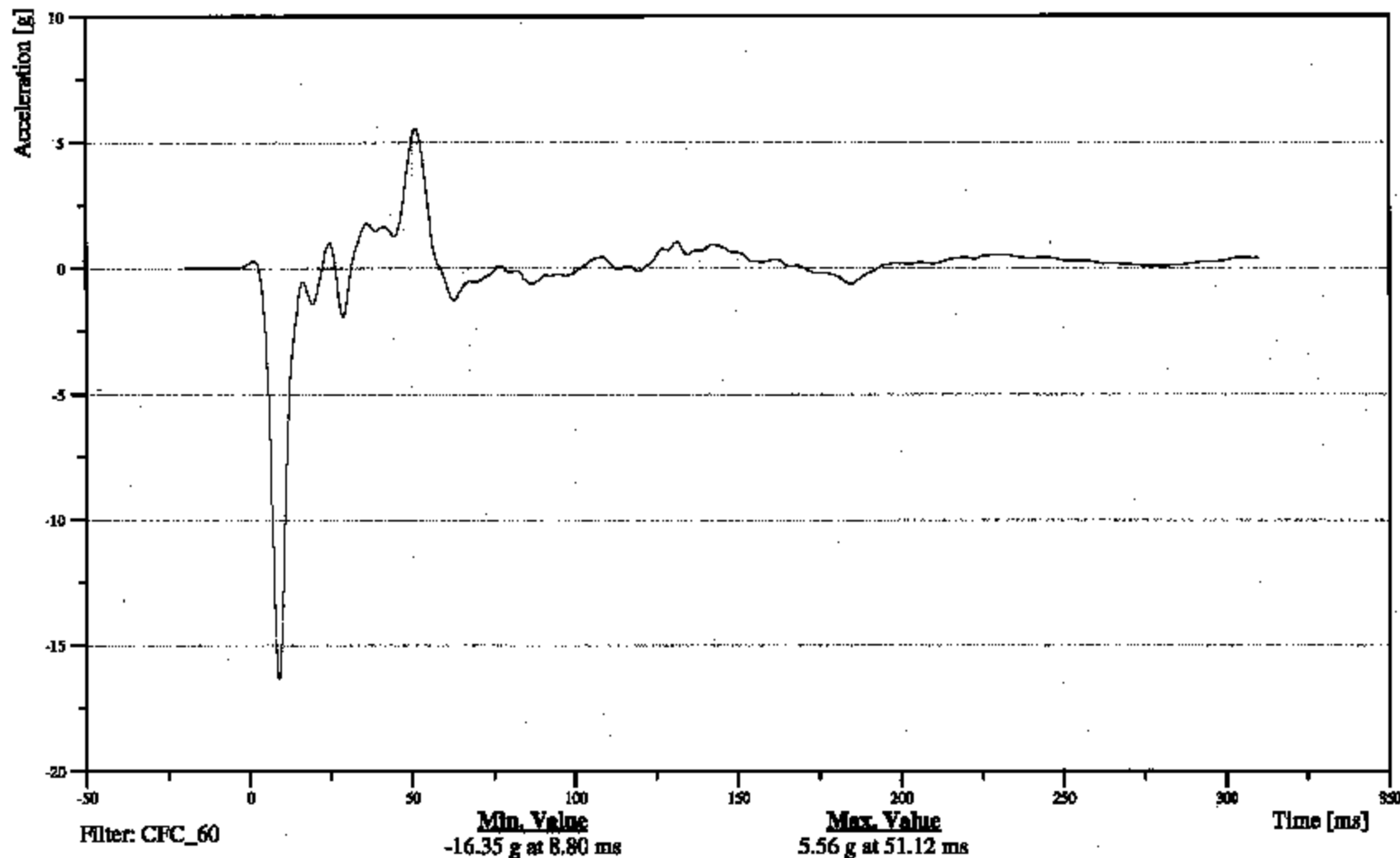
RIGHT SIDE SILL AT REAR SEAT (X) ACCELERATION VS TIME (#2)

Customer: NHTSA

16SILBRE0000ACXD

TRC Inc. Test Lab: CTF

Test Number: 051017



B-30

051017



24 kph 90 Degree Side Impact (MDB) into Left Side of 2006 Mitsubishi Eclipse

05/17/2005
Time: 12:15

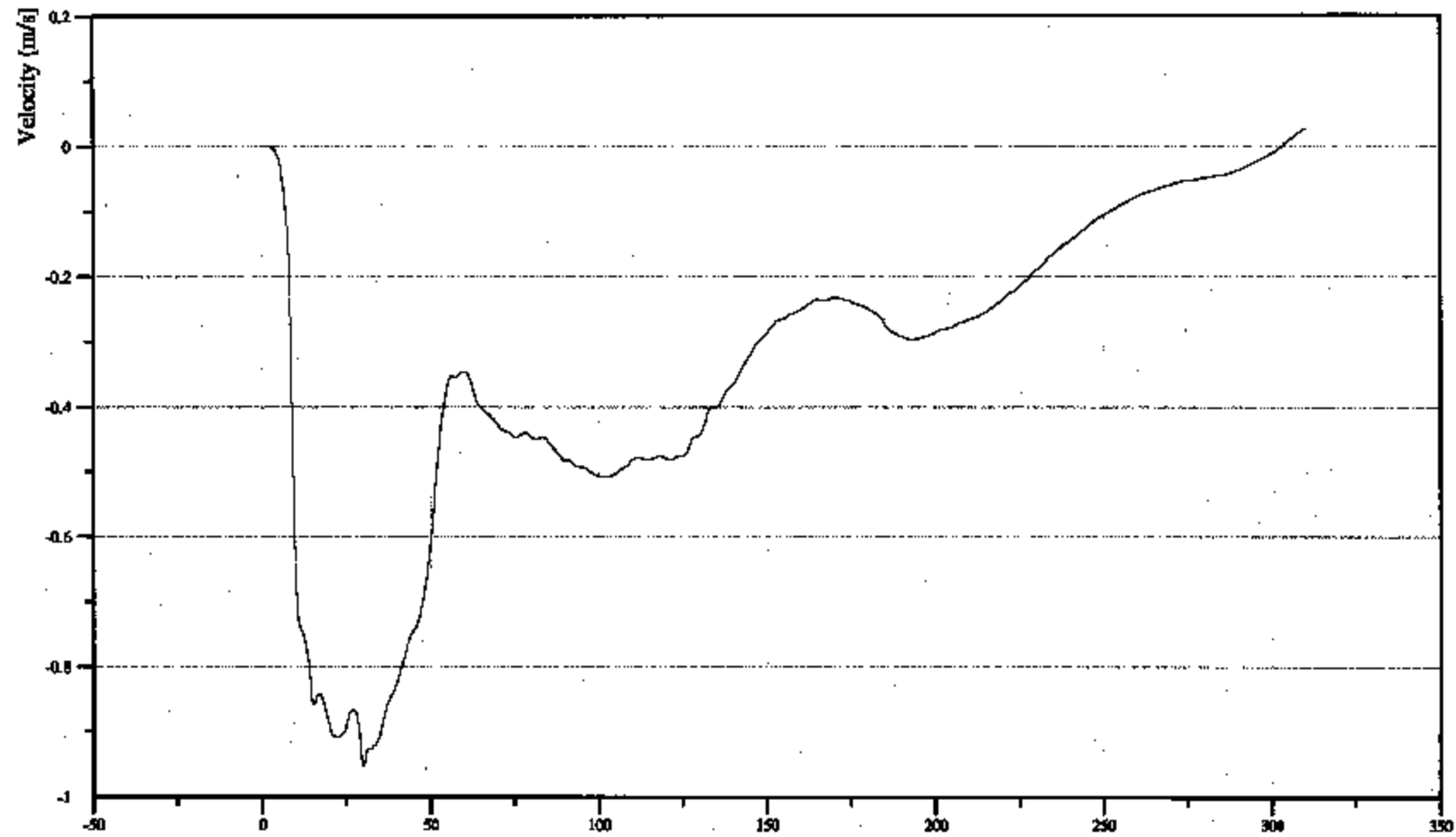
RIGHT SIDE SILL AT REAR SEAT (X) VELOCITY VS TIME (#2)

Customer: NHTSA

16SILBRE0000VEXC

TRC Inc. Test Lab: CTF

Test Number: 051017



Filter: CFC_180

Min. Value
-0.95 m/s at 29.84 ms

Max. Value
0.03 m/s at 310.00 ms

Time (ms)

B-31

051017



24 kph 90 Degree Side Impact (MDB) into Left Side of 2006 Mitsubishi Eclipse

05/17/2005
Time: 12:15

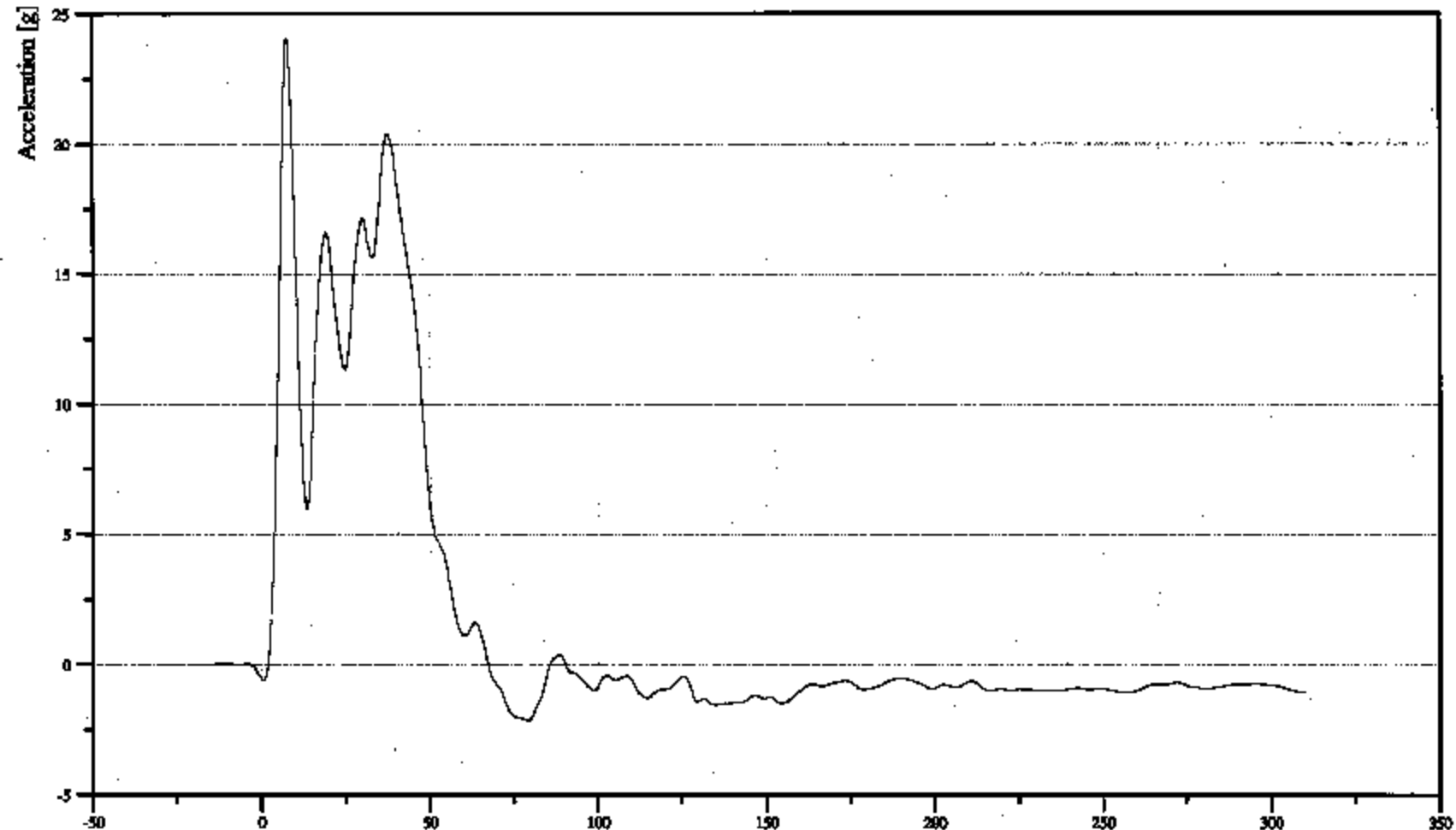
RIGHT SIDE SILL AT REAR SEAT (Y) ACCELERATION VS TIME (#2)

Customer: NHTSA

16SILBRE0000ACYD

TRC Inc. Test Lab: CTF

Test Number: 051017



Filter: CFC_60

Min. Value
-2.16 g at 79.28 ms

Max. Value
24.04 g at 7.52 ms

Time [ms]

B-32

051017



46/24 kph 90 Degree Side Impact (MDB) into Left Side of 2006 Mitsubishi Eclipse

05/17/2006
Time: 12:15

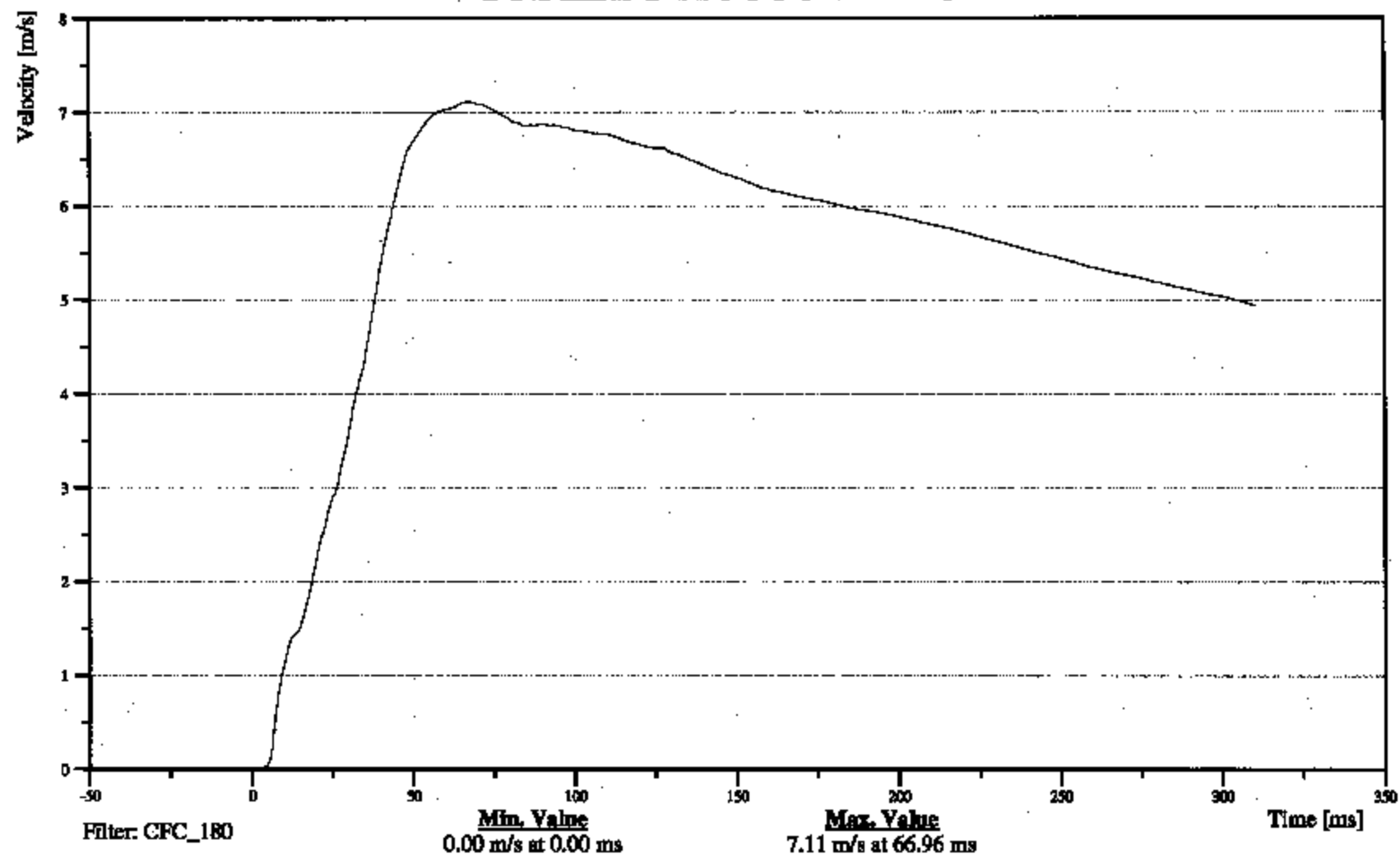
RIGHT SIDE SILL AT REAR SEAT (Y) VELOCITY VS TIME (#2)

Customer: NHTSA

16SILBRE0000VEYC

TRC Inc. Test Lab: CTF

Test Number: 051017



B-33

051017



30/24 kph 90 Degree Side Impact (MDB) into Left Side of 2006 Mitsubishi Eclipse

05/17/2005

RIGHT SIDE SILL AT REAR SEAT (Z) ACCELERATION VS TIME (#2)

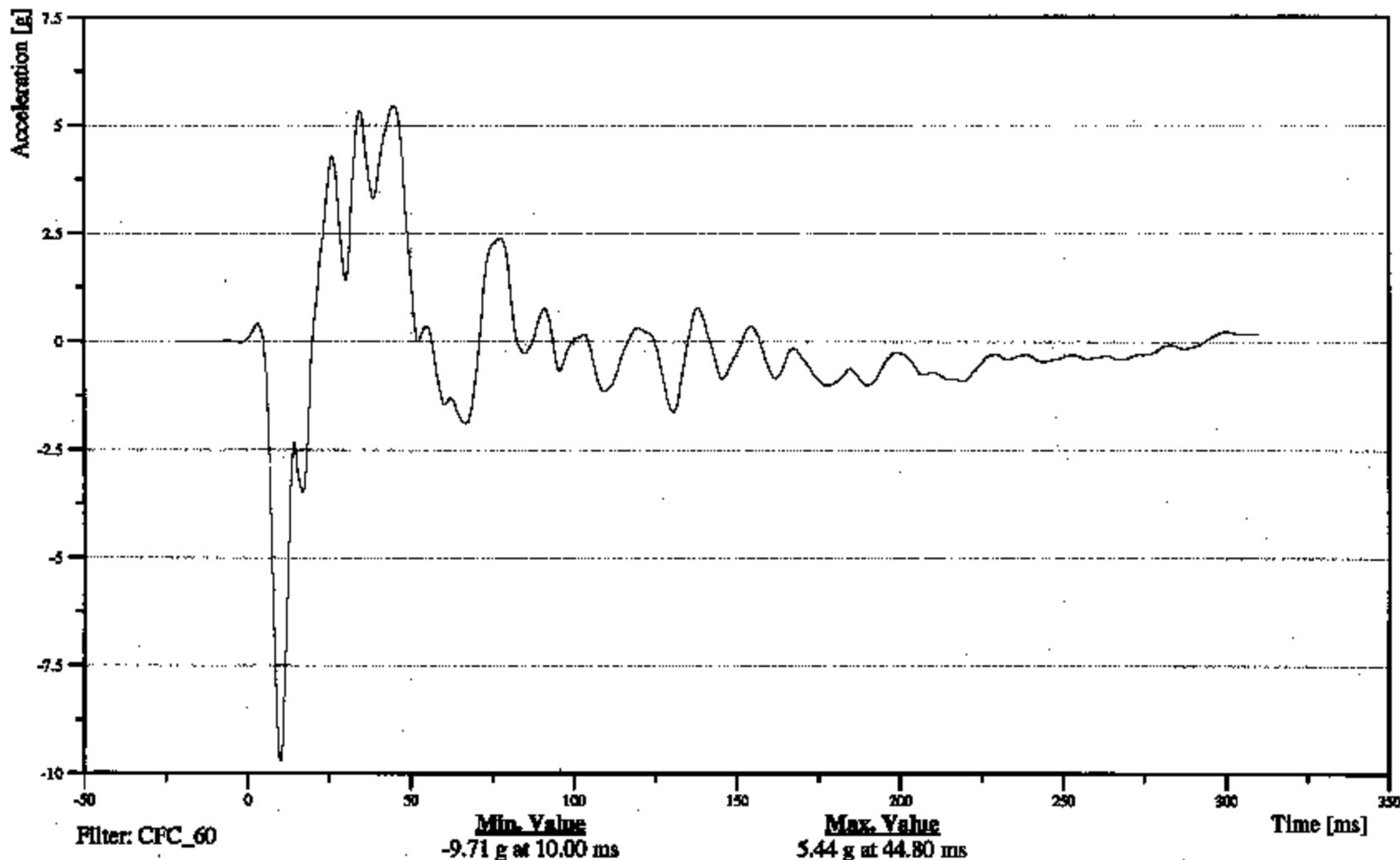
Time: 12:15

Customer: NETSA

16SILBRE0000ACZD

TRC Inc. Test Lab: CTF

Test Number: 051017



B-34

051017



24 kph 90 Degree Side Impact (MDB) into Left Side of 2006 Mitsubishi Eclipse

Time: 12:15

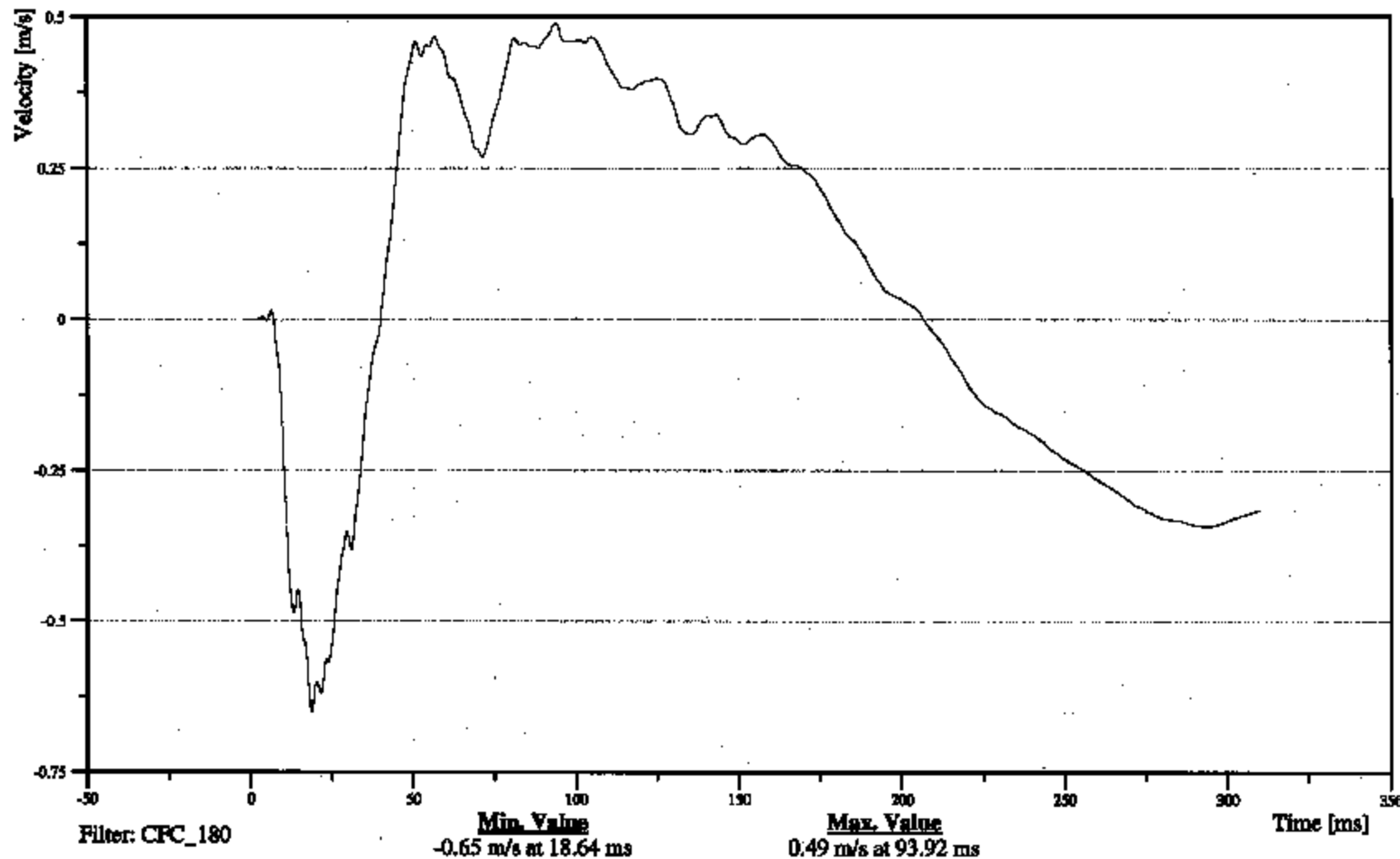
RIGHT SIDE SILL AT REAR SEAT (Z) VELOCITY VS TIME (#2)

Customer: NHTSA

16SILBRE0000VEZC

TRC Inc. Test Lab: CTF

Test Number: 051017



B-35

051017



24 kph 90 Degree Side Impact (MDB) into Left Side of 2006 Mitsubishi Eclipse

05/17/2005

RIGHT SIDE SILL AT REAR SEAT RESULTANT ACCELERATION VS TIME (#2)

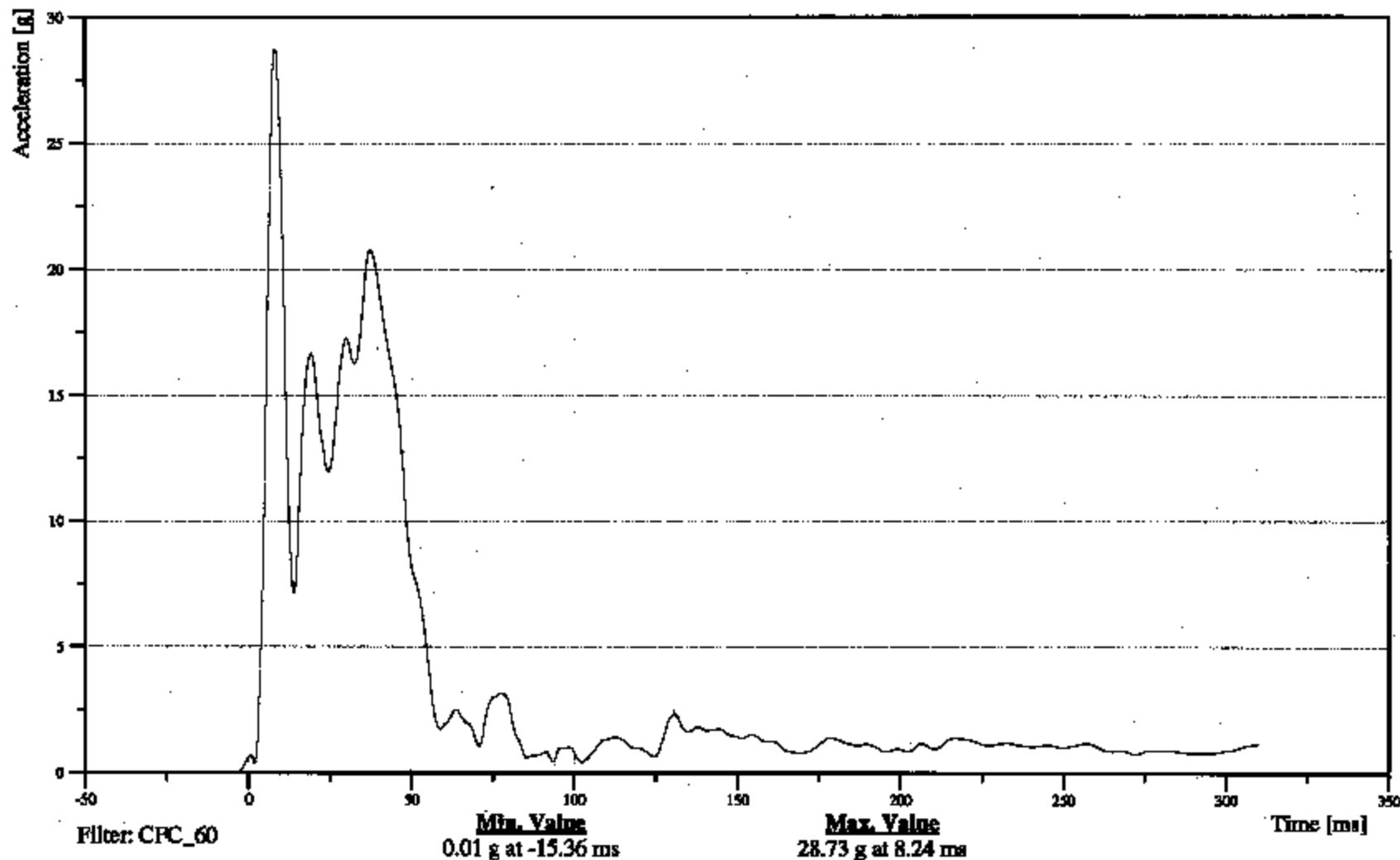
Time: 12:15

Customer: NHTSA

16SILBRE0000ACRD

TRC Inc. Test Lab: CTF

Test Number: 051017



B-36

051017



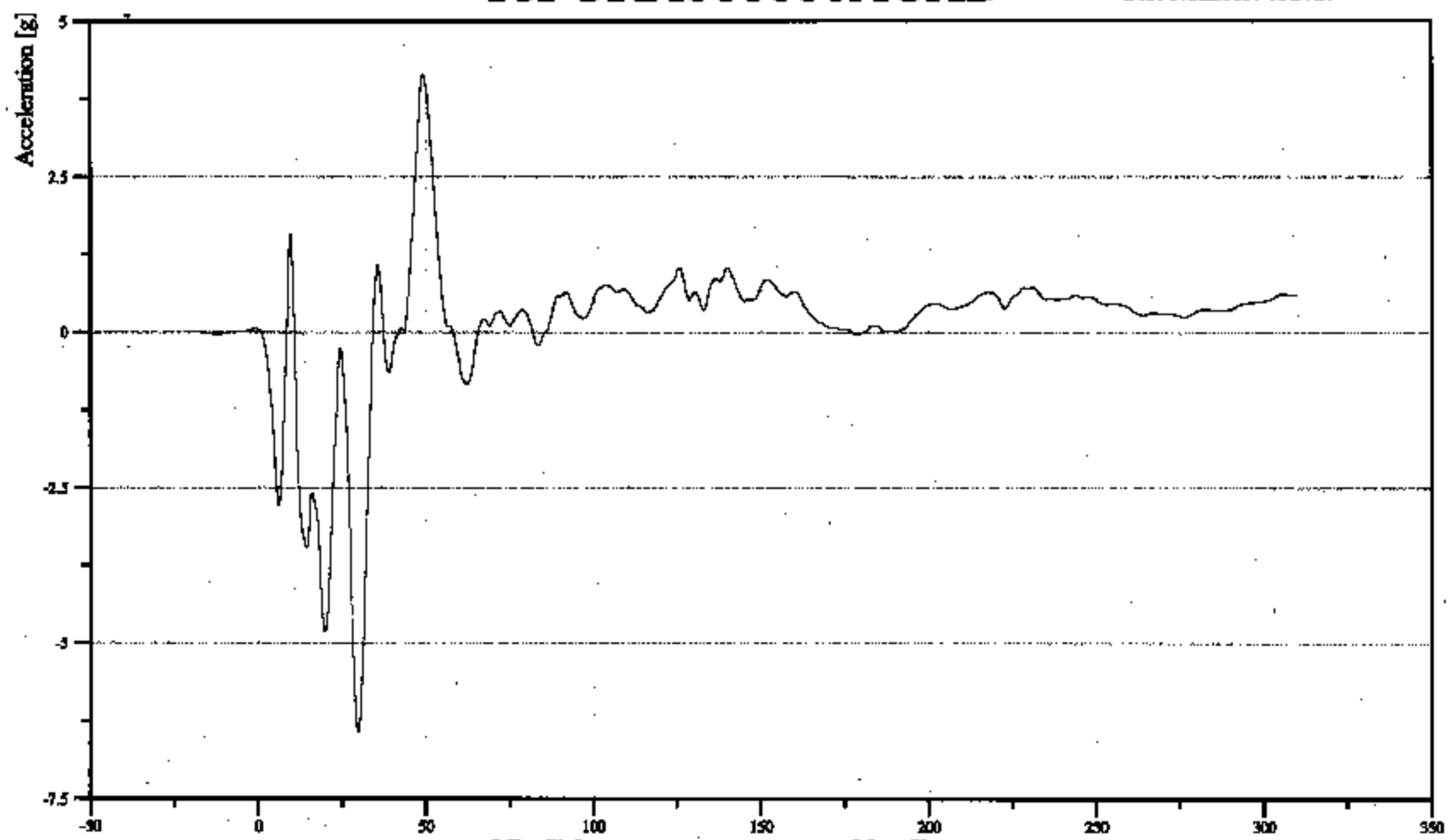
36/24 kph 90 Degree Side Impact (MDB) into Left Side of 2006 Mitsubishi Eclipse
REAR FLOORPAN ABOVE AXLE (X) ACCELERATION VS TIME (#3)

05/17/2005
Time: 12:15

Customer: NHTSA

18FORA000000ACXD

TRC Inc. Test Lab: CTF
Test Number: 051017



Filter: CFC_60

Min. Value
-6.43 g at 29.68 ms

Max. Value
4.14 g at 49.28 ms

Time [ms]

B-37

051017



24 kph 90 Degree Side Impact (MDB) into Left Side of 2006 Mitsubishi Eclipse

05/17/2005

REAR FLOORPAN ABOVE AXLE (X) VELOCITY VS. TIME (#3)

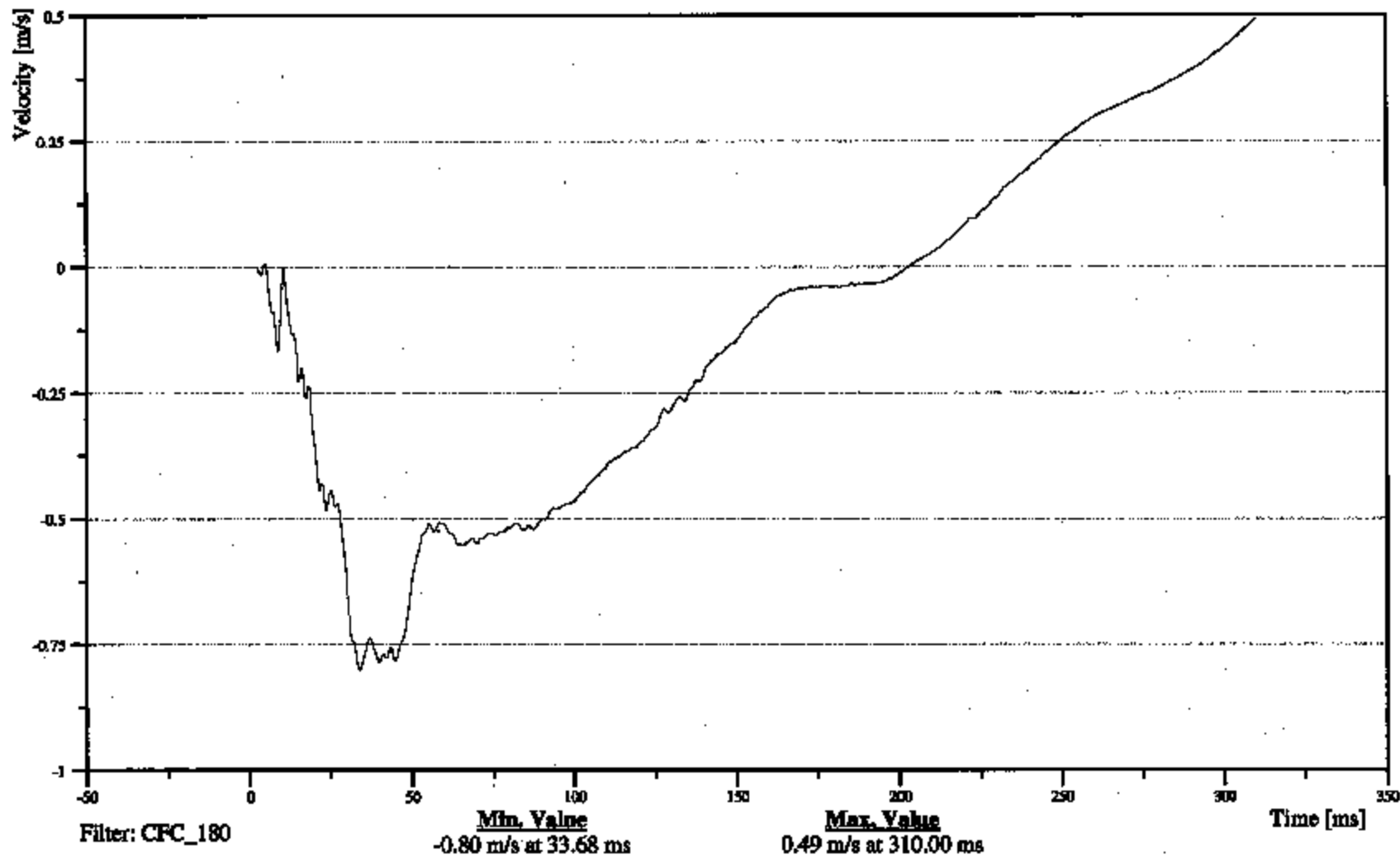
Time: 12:15

Customer: NHTSA

18FORA000000VEXC

TRC Inc. Test Lab: CTF

Test Number: 051017



B-38

051017



30/24 kph 90 Degree Side Impact (MDB) into Left Side of 2006 Mitsubishi Eclipse

05/17/2006
Time: 12:15

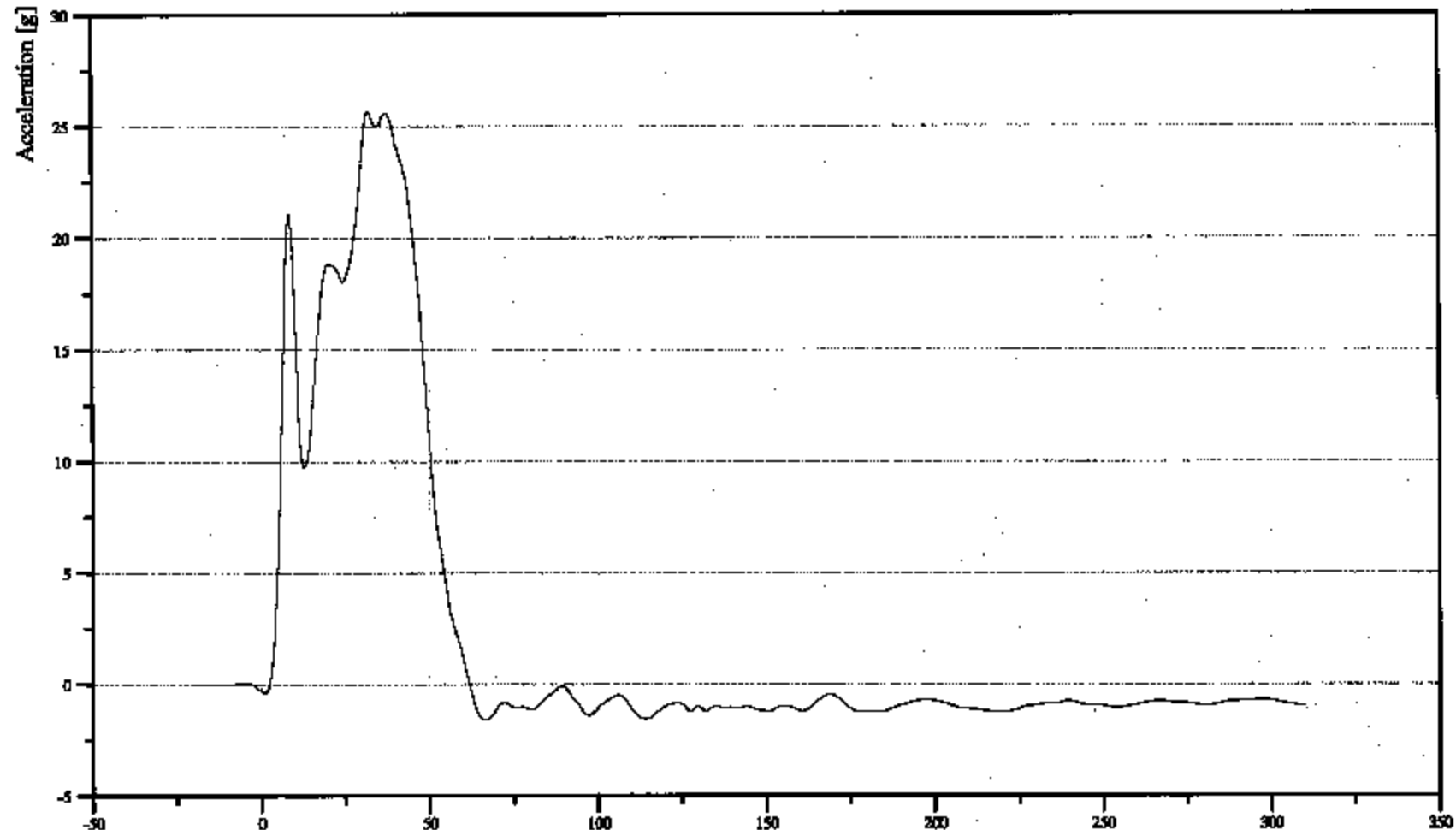
REAR FLOORPAN ABOVE AXLE (Y) ACCELERATION VS TIME (#3)

Customer: NHTSA

18FORA000000ACYD

TRC Inc. Test Lab: CTF

Test Number: 051017



Filter: CFC_60

Min. Value
-1.60 g at 66.48 ms

Max. Value
25.66 g at 32.00 ms

Time [ms]

B-39

051017



3/24 kph 90 Degree Side Impact (MDB) into Left Side of 2006 Mitsubishi Eclipse

05/17/2005

REAR FLOORPAN ABOVE AXLE (Y) VELOCITY VS TIME (#3)

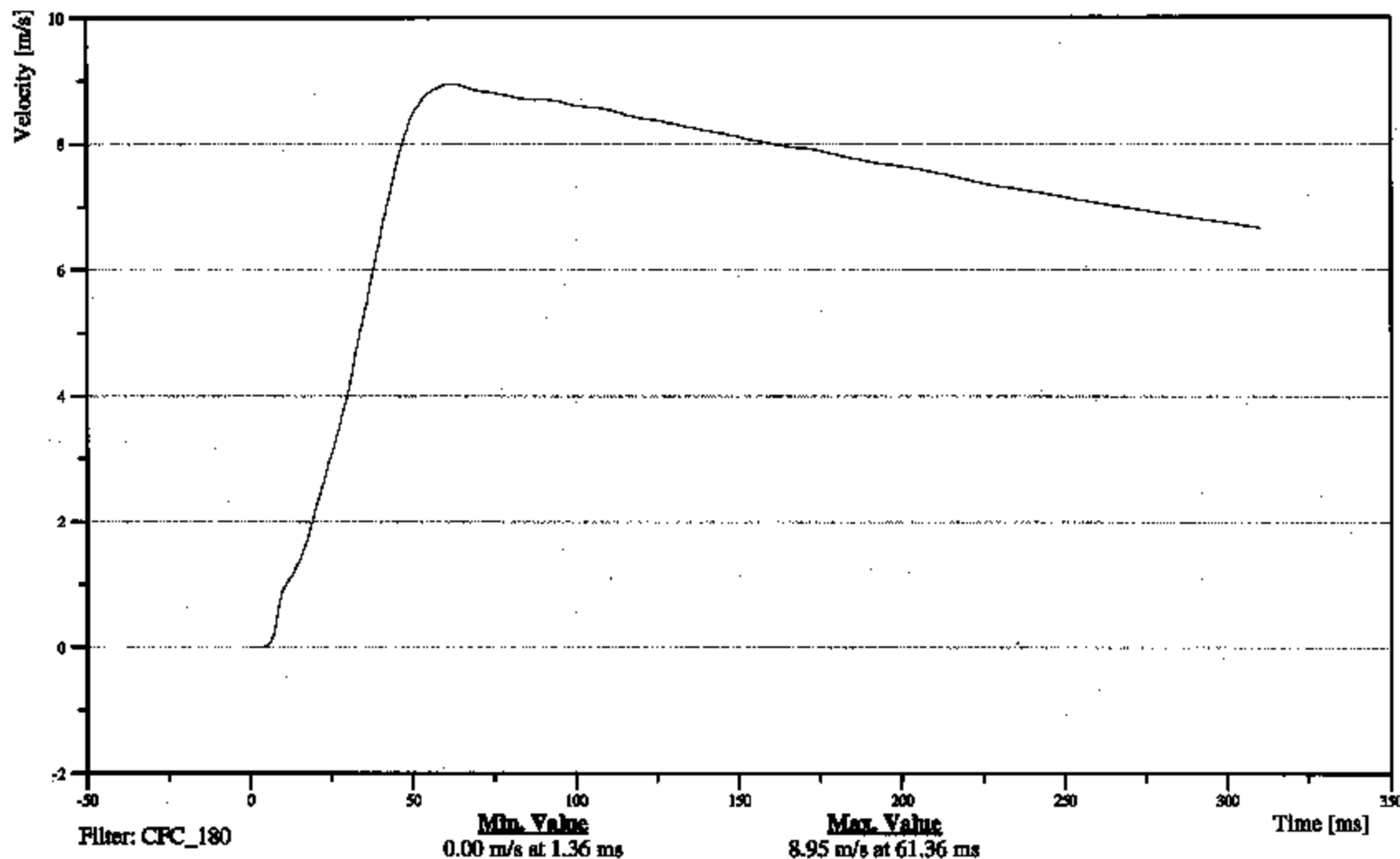
Time: 12:15

Customer: NHTSA

18FORA000000VEYC

TRC Inc. Test Lab: CTF

Test Number: 051017



B-40

051017



31/24 kph 90 Degree Side Impact (MDB) into Left Side of 2006 Mitsubishi Eclipse

05/17/2005

REAR FLOORPAN ABOVE AXLE (Z) ACCELERATION VS TIME (#3)

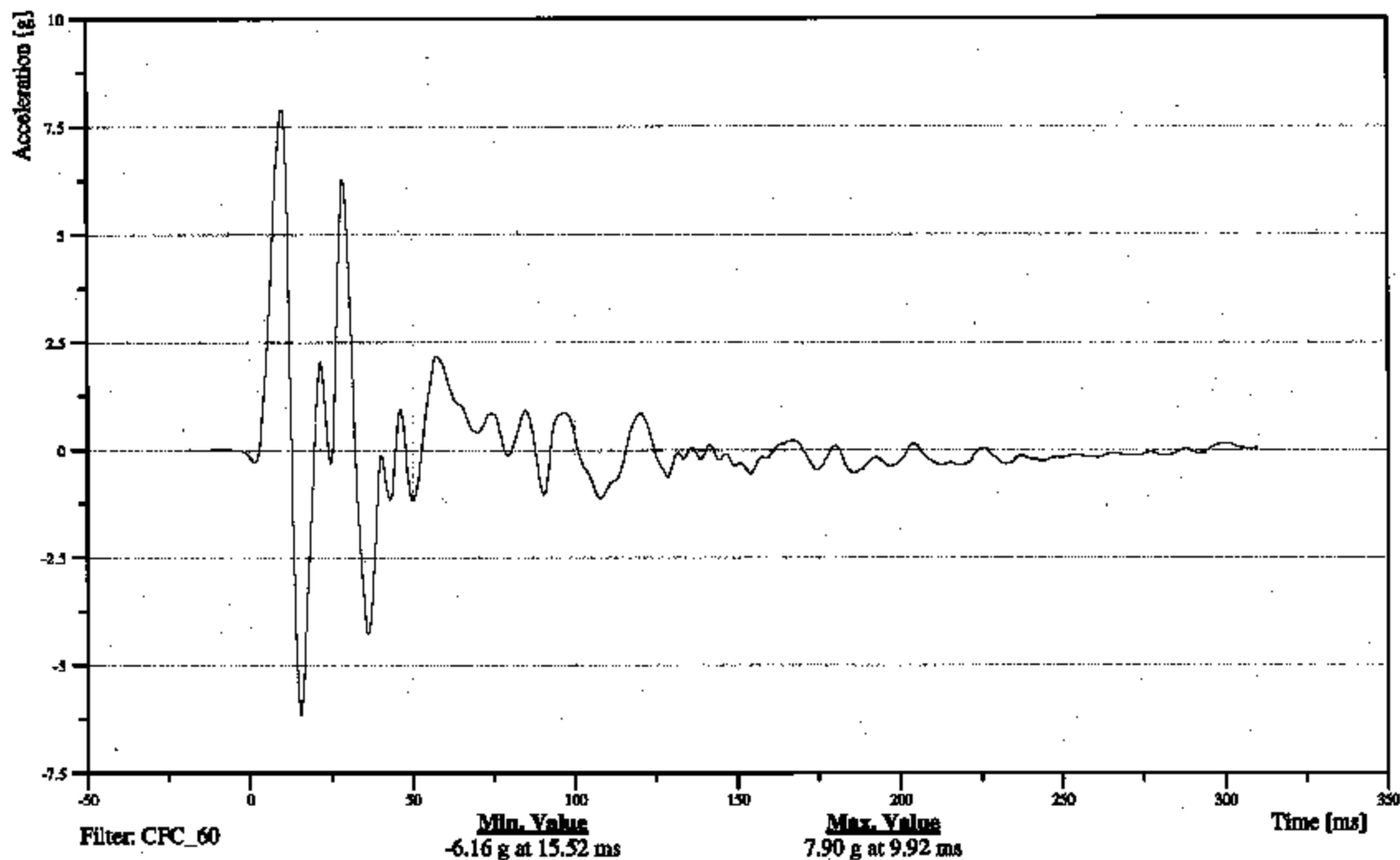
Time: 12:15

Customer: NHTSA

18FORA000000ACZD

TRC Inc. Test Lab: CTF

Test Number: 051017



B-41

051017



24 kph 90 Degree Side Impact (MDB) into Left Side of 2006 Mitsubishi Eclipse

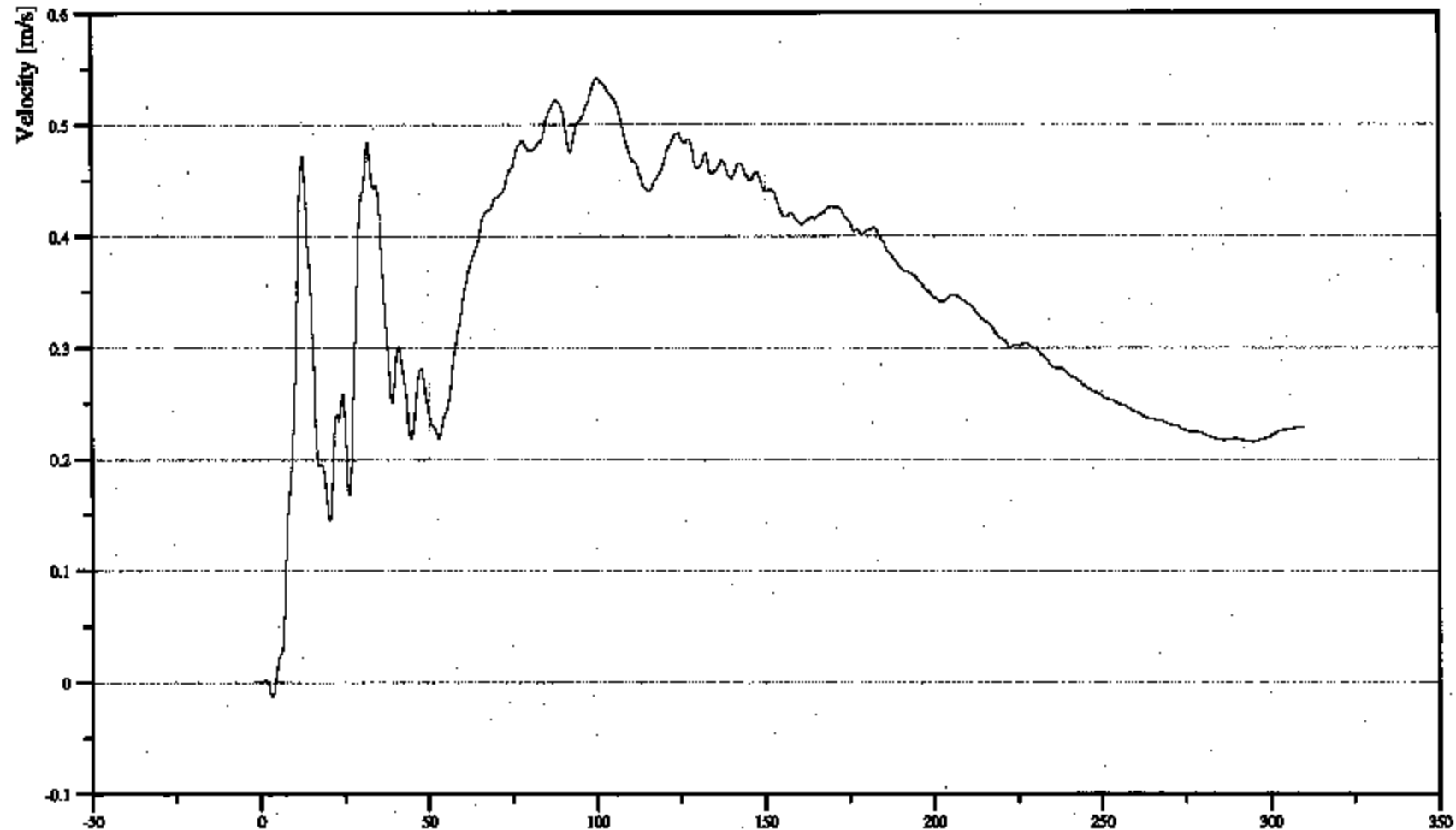
05/17/2005
Time: 12:15

REAR FLOORPAN ABOVE AXLE (Z) VELOCITY VS TIME (#3)

Customer: NHTSA

18FORA000000VEZC

TRC Inc. Test Lab: CTF
Test Number: 051017



Filter: CPC_180

Min. Value
-0.01 m/s at 3.36 ms

Max. Value
0.54 m/s at 100.08 ms

Time [ms]

B-42

051017



36/24 kph 90 Degree Side Impact (MDB) into Left Side of 2006 Mitsubishi Eclipse

05/17/2005
Time: 12:15

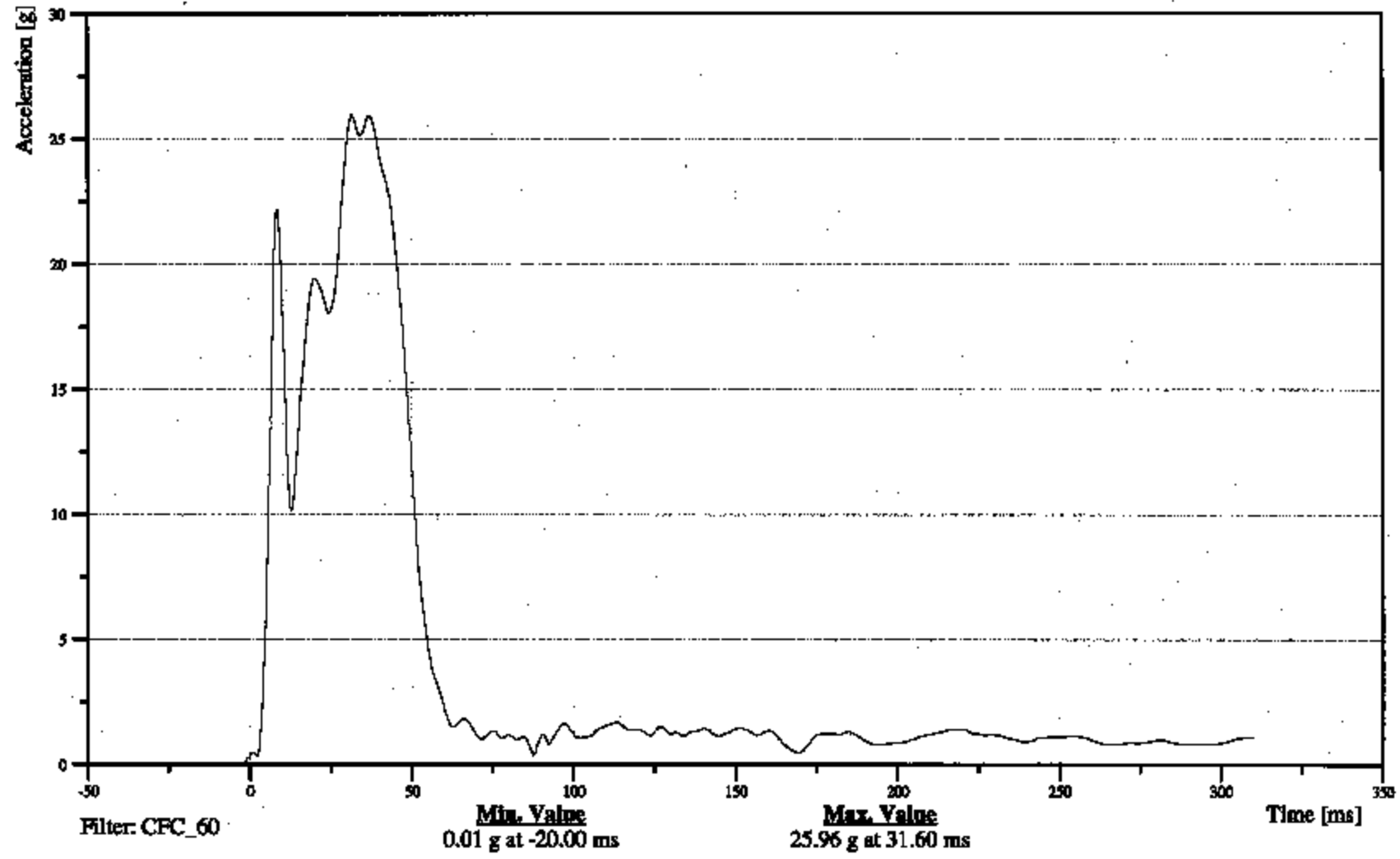
REAR FLOORPAN ABOVE AXLE RESULTANT ACCELERATION VS TIME (#3)

Customer: NHTSA

18FORA000000ACRD

TRC Inc. Test Lab: CTF

Test Number: 051017



B-43

051017



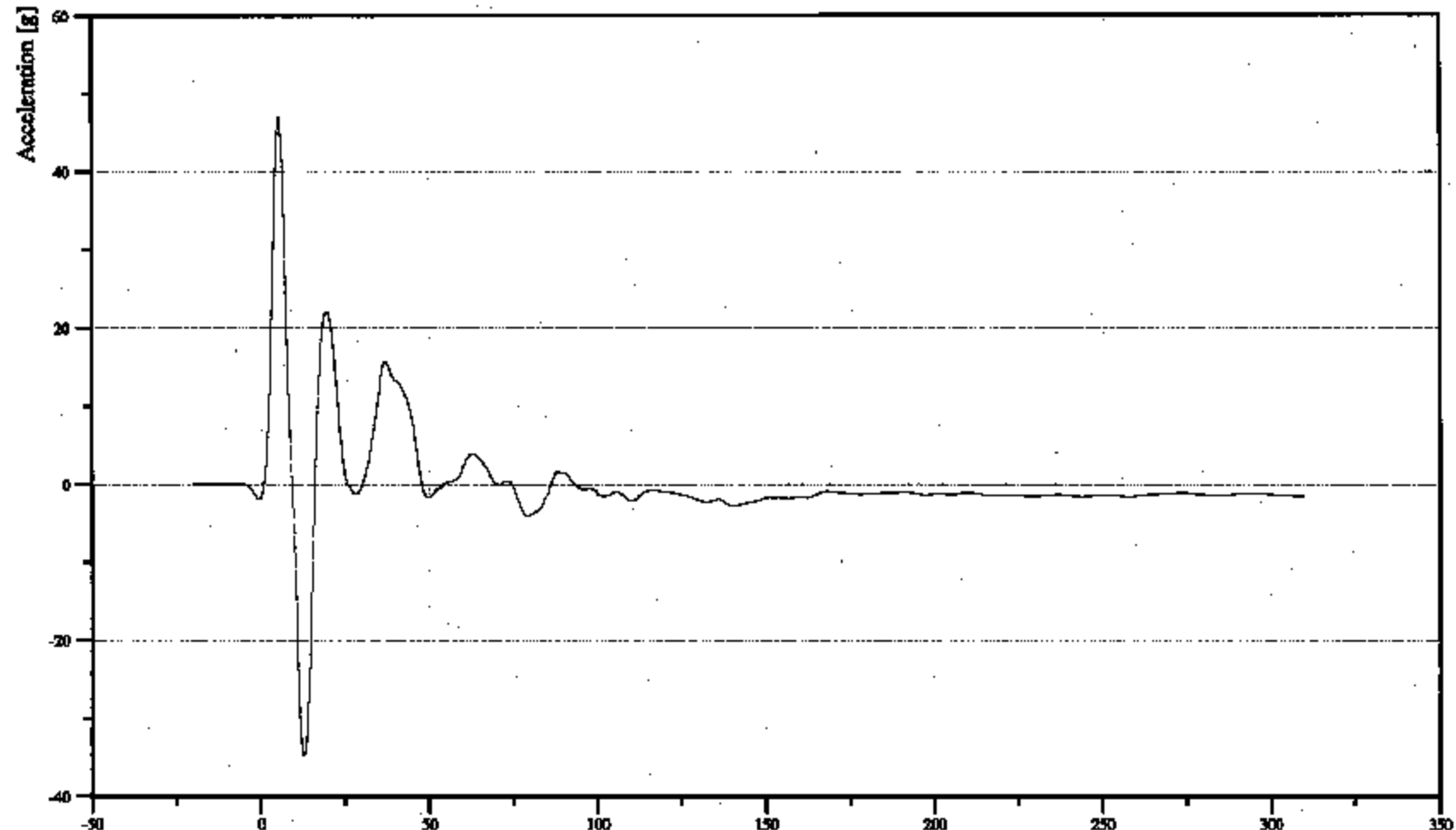
24 kph 90 Degree Side Impact (MDB) into Left Side of 2006 Mitsubishi Eclipse
LEFT SIDE SILL AT FRONT SEAT (Y) ACCELERATION VS TIME (#5)

05/17/2005
Time: 12:15

Customer: NHTSA

14SILBFR0000ACYD

TRC Inc. Test Lab: CTF
Test Number: 051017



Filter: CPC_60

Min. Value
-34.73 g at 12.64 ms

Max. Value
47.11 g at 5.28 ms

Time [ms]

B-44

051017



24 kph 90 Degree Side Impact (MDB) into Left Side of 2006 Mitsubishi Eclipse

LEFT SIDE SILL AT FRONT SEAT (Y) VELOCITY VS TIME (#5)

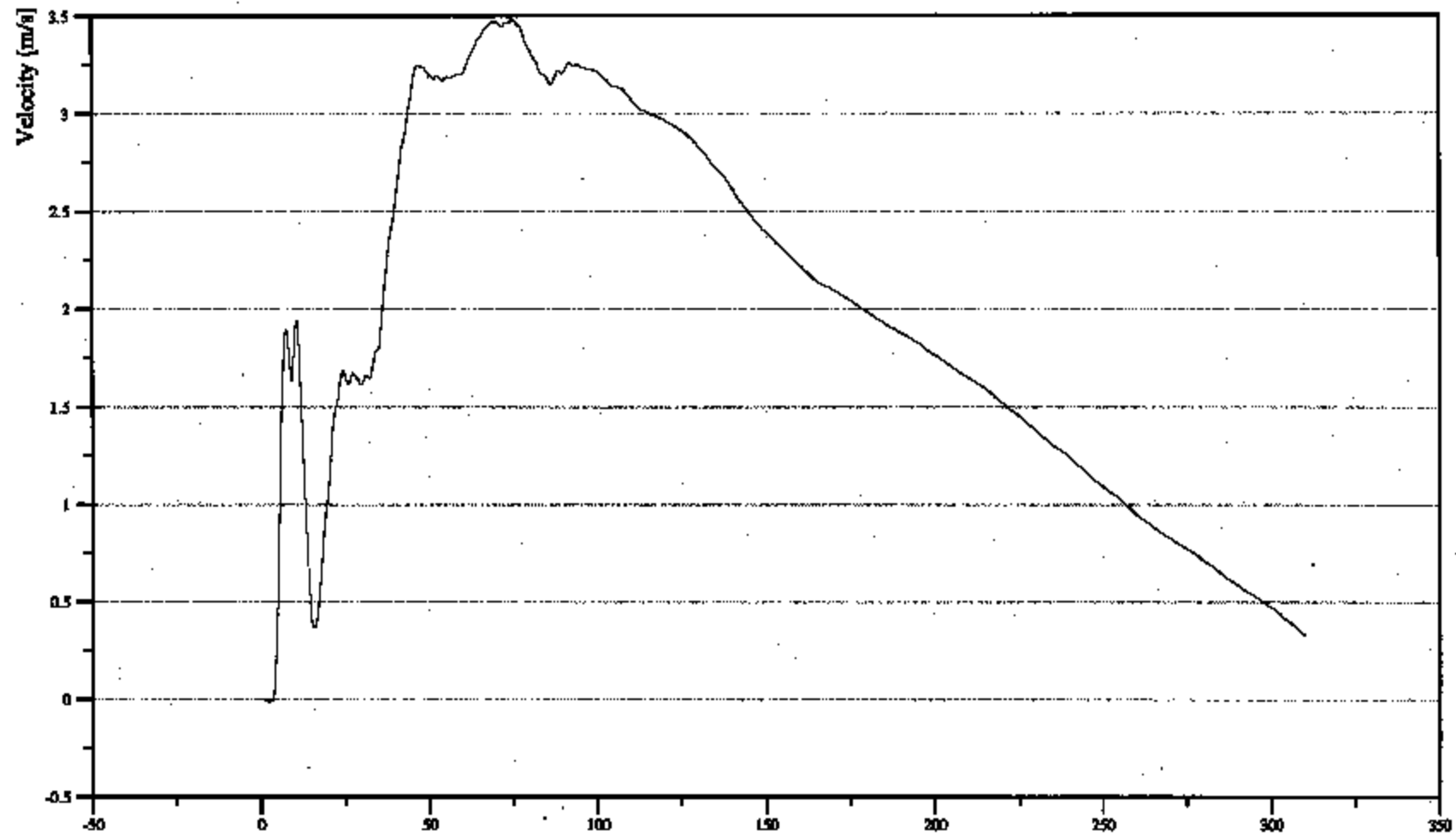
Time: 12:15

Customer: NHTSA

14SILBFR0000VEYC

TRC Inc. Test Lab: CTF

Test Number: 051017



Filter: CFC_180

Min. Value
-0.01 m/s at 2.32 ms

Max. Value
3.48 m/s at 74.96 ms

Time [ms]

B-45

051017



24 kph 90 Degree Side Impact (MDB) into Left Side of 2006 Mitsubishi Eclipse

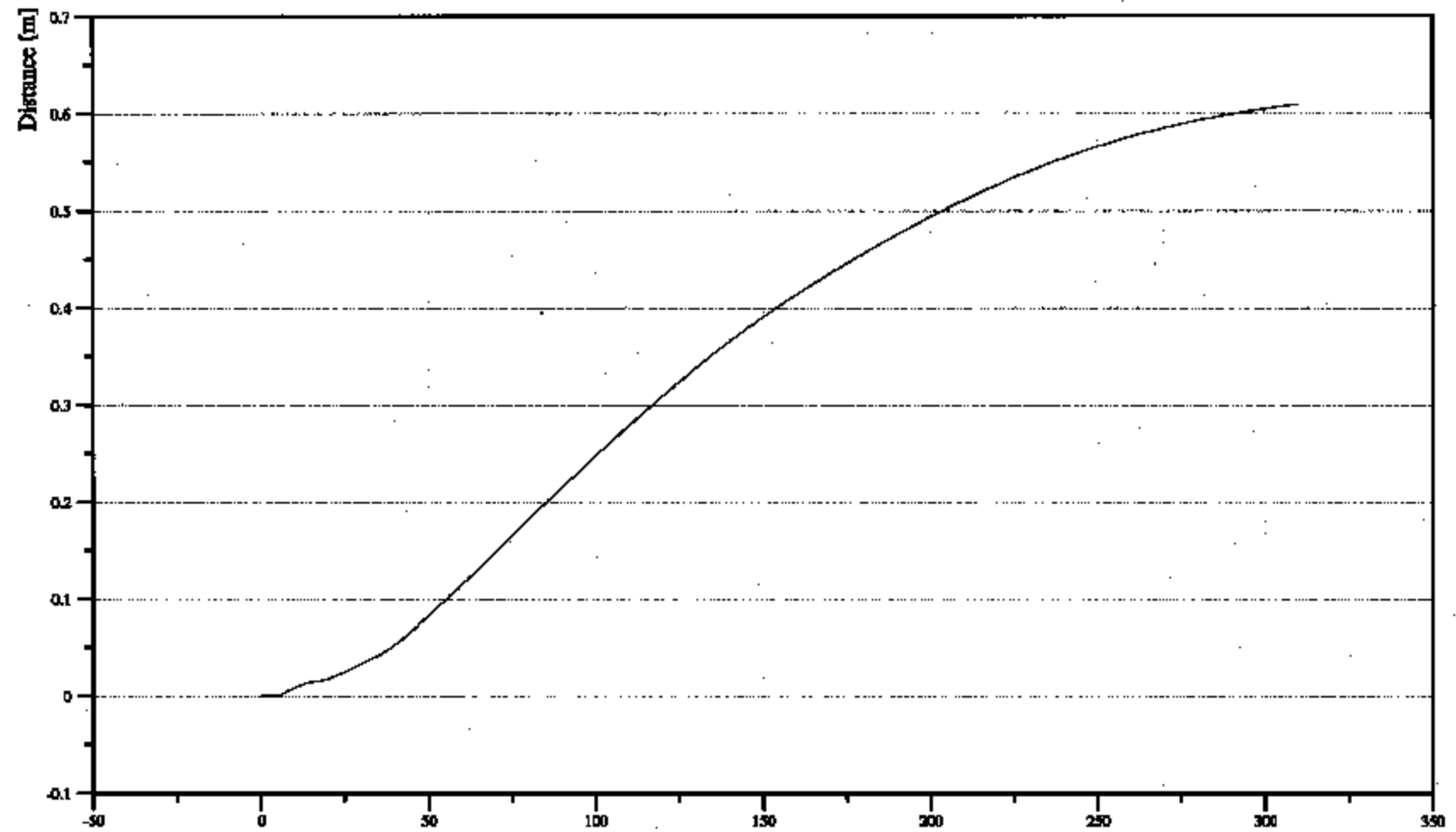
051017/2005
Time: 12:15

LEFT SIDE SILL AT FRONT SEAT (Y) DISPLACEMENT VS TIME (#5)

Customer: NHTSA

14SILBFR0000DCYC

TRC Inc. Test Lab: CTF
Test Number: 051017



Filter: CFC_180

Min. Value
0.00 m at 3.36 ms

Max. Value
0.61 m at 310.00 ms

Time [ms]

B-46

051017



30/24 kph 90 Degree Side Impact (MDB) into Left Side of 2006 Mitsubishi Eclipse

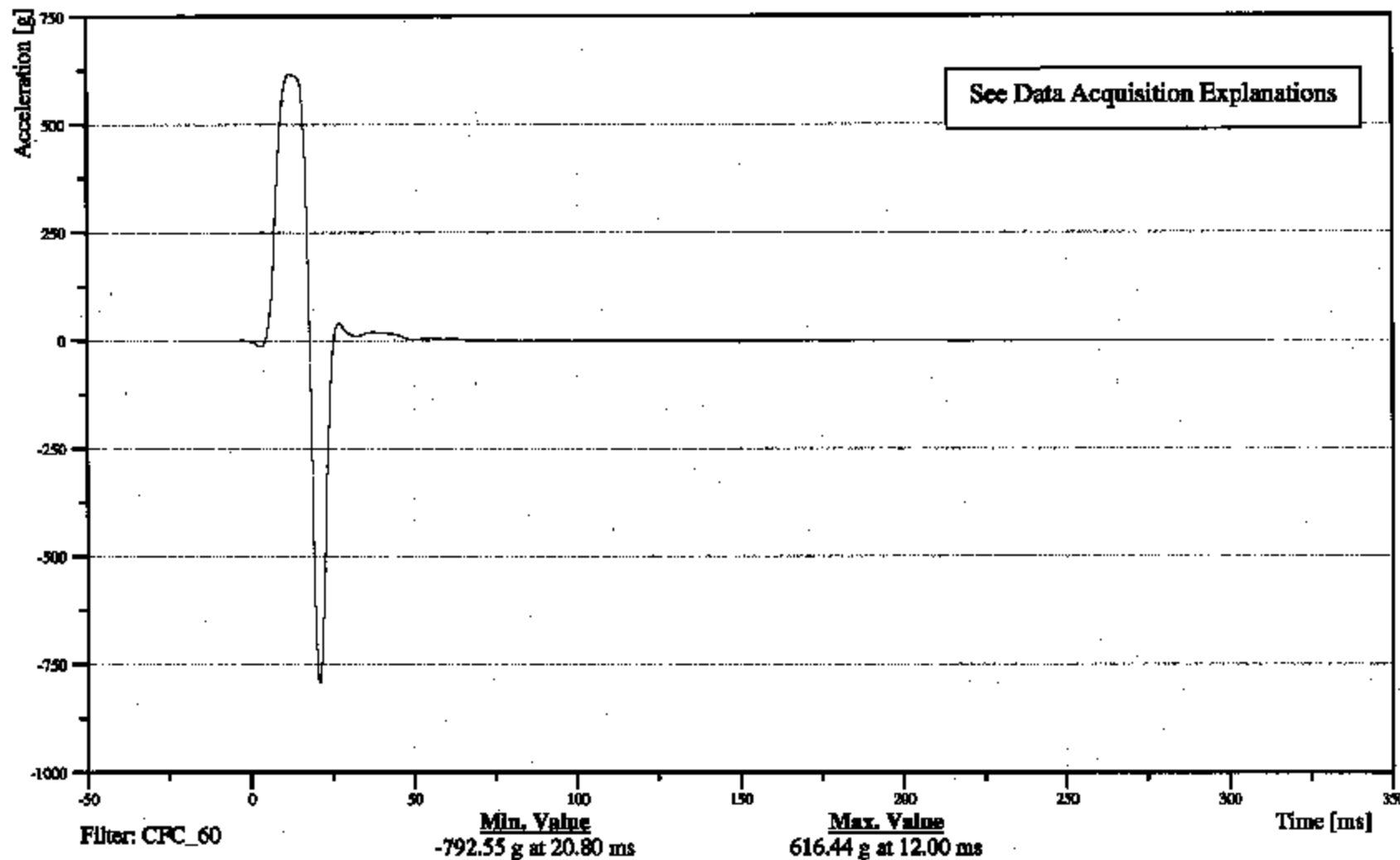
05/17/2005
Time: 12:15

LEFT SIDE SILL AT REAR SEAT (Y) ACCELERATION VS TIME

Customer: NHTSA

14SILBRE0000ACYD

TRC Inc. Test Lab: CTF
Test Number: 051017



B-47

051017



24 kph 90 Degree Side Impact (MDB) into Left Side of 2006 Mitsubishi Eclipse

05/17/2005
Time: 12:15

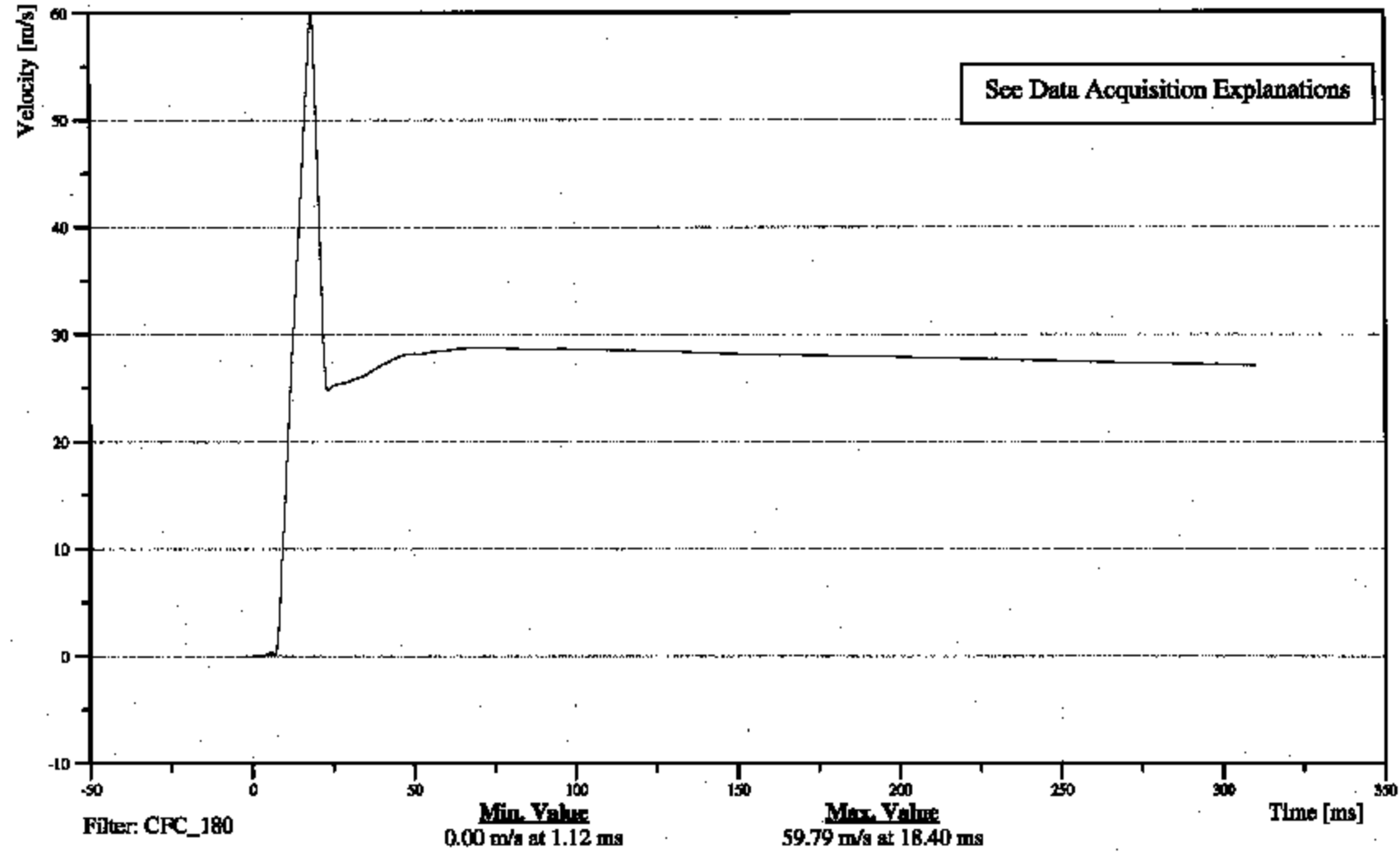
LEFT SIDE SILL AT REAR SEAT (Y) VELOCITY VS TIME

Customer: NHTSA

14SILBRE0000VEYC

TRC Inc. Test Lab: CTF

Test Number: 051017



B-48

051017



24 kph 90 Degree Side Impact (MDB) into Left Side of 2006 Mitsubishi Eclipse

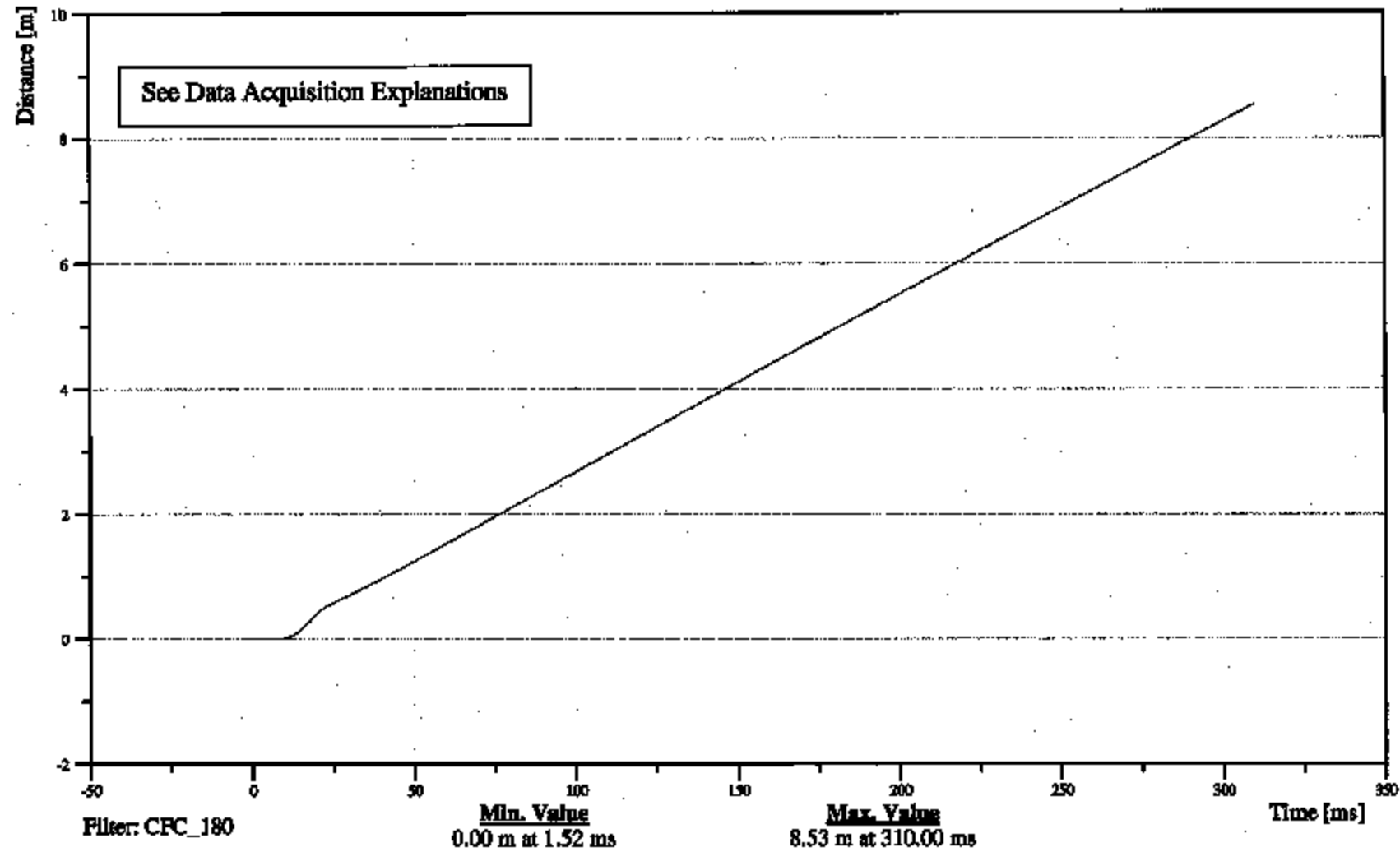
05/17/2005
Time: 12:15

LEFT SIDE SILL AT REAR SEAT (Y) DISPLACEMENT VS TIME

Customer: NHTSA

14SILBRE0000DCYC

TRC Inc. Test Lab: CTF
Test Number: 051017



B-49

051017

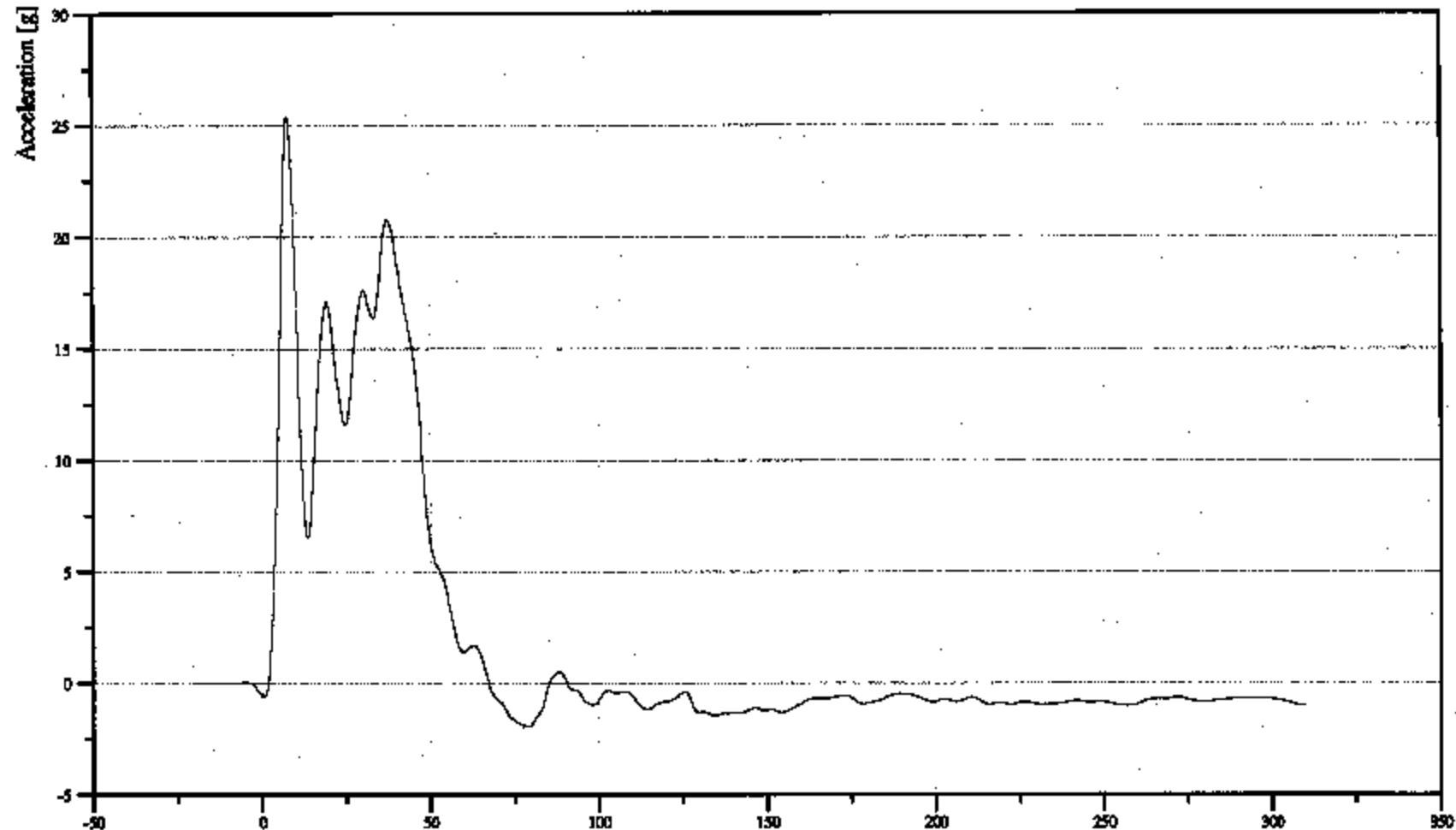


24 kph 90 Degree Side Impact (MDB) into Left Side of 2006 Mitsubishi Eclipse
RIGHT REAR OCCUPANT COMPARTMENT (Y) ACCELERATION VS TIME (#7) Date: 05/17/2005
Time: 12:15

Customer: NETSA

16VEHCRE0000ACYD

TRC Inc. Test Lab: CTF
Test Number: 051017



Filter: CFC_60

Min. Value
-1.96 g at 79.12 ms

Max. Value
25.37 g at 7.60 ms

Time [ms]

B-50

051017



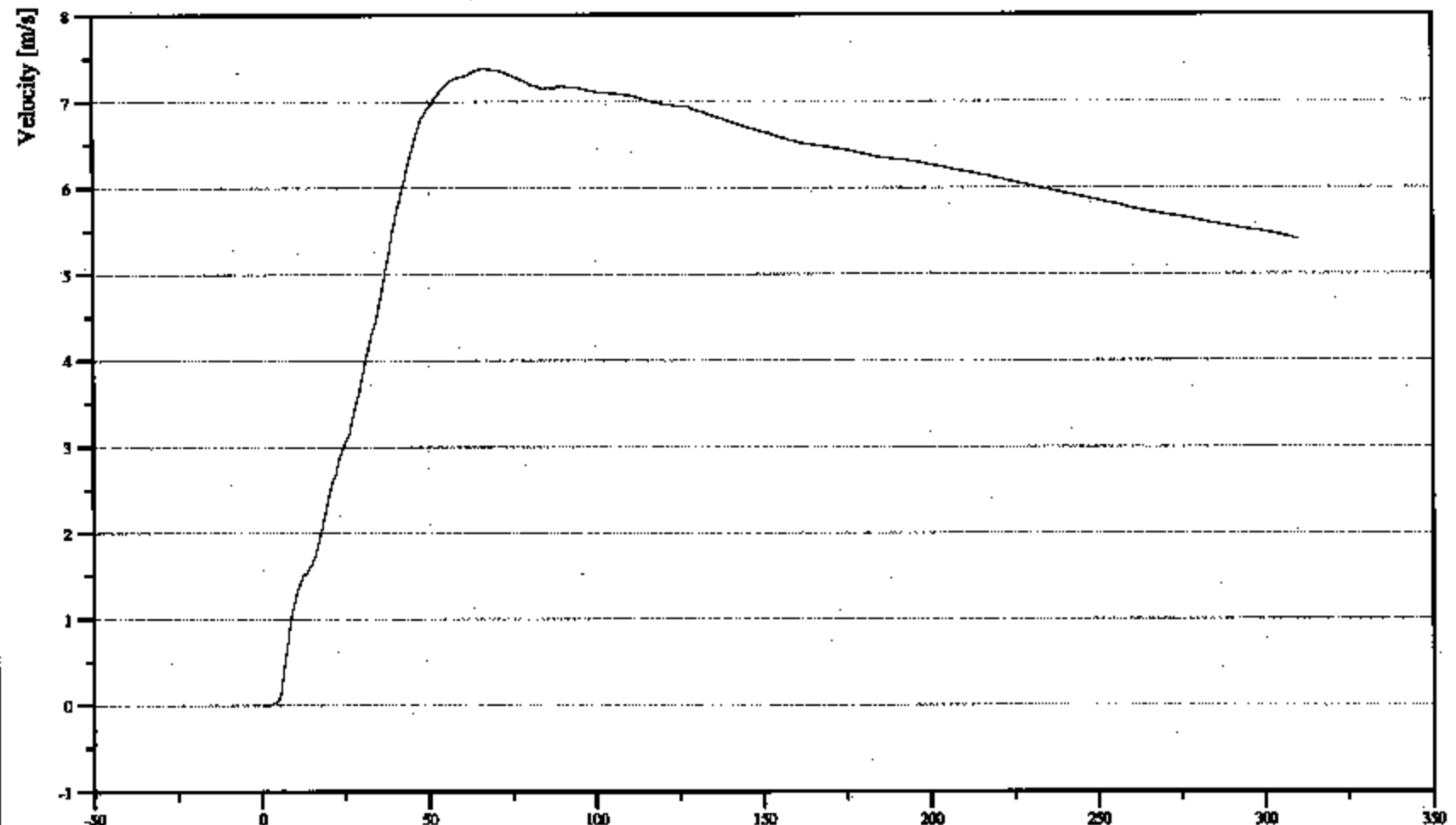
24 kph 90 Degree Side Impact (MDB) into Left Side of 2006 Mitsubishi Eclipse
RIGHT REAR OCCUPANT COMPARTMENT (Y) VELOCITY VS TIME (#7)

05/17/2001
Time: 12:15

Customer: NHTSA

16VEHCRE0000VEYC

TRC Inc. Test Lab: CTF
Test Number: 051017



Filter: CPC_180

Min. Value
0.00 m/s at 1.36 ms

Max. Value
7.38 m/s at 66.96 ms

Time [ms]

B-51

051017



36/24 kph 90 Degree Side Impact (MDB) into Left Side of 2006 Mitsubishi Eclipse

05/17/2003

RIGHT REAR OCCUPANT COMPARTMENT (Y) DISPLACEMENT VS TIME (#7)

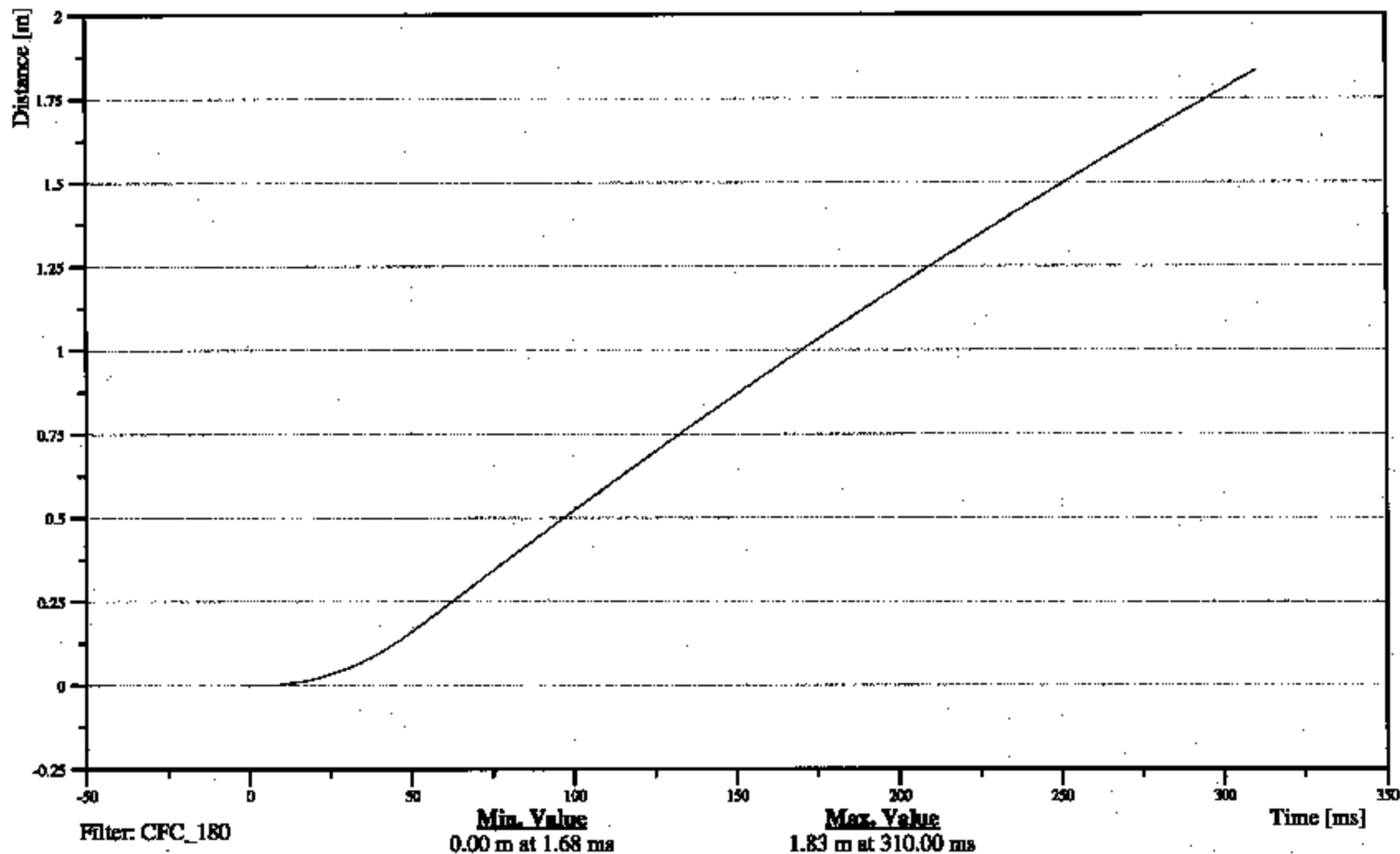
Time: 12:15

Customer: NHTSA

16VEHCRE0000DCYC

TRC Inc. Test Lab: CTF

Test Number: 051017



B-52

051017



24 kph 90 Degree Side Impact (MDB) into Left Side of 2006 Mitsubishi Eclipse

05/17/2005

LEFT LOWER A-POST (Y) ACCELERATION VS TIME (#14)

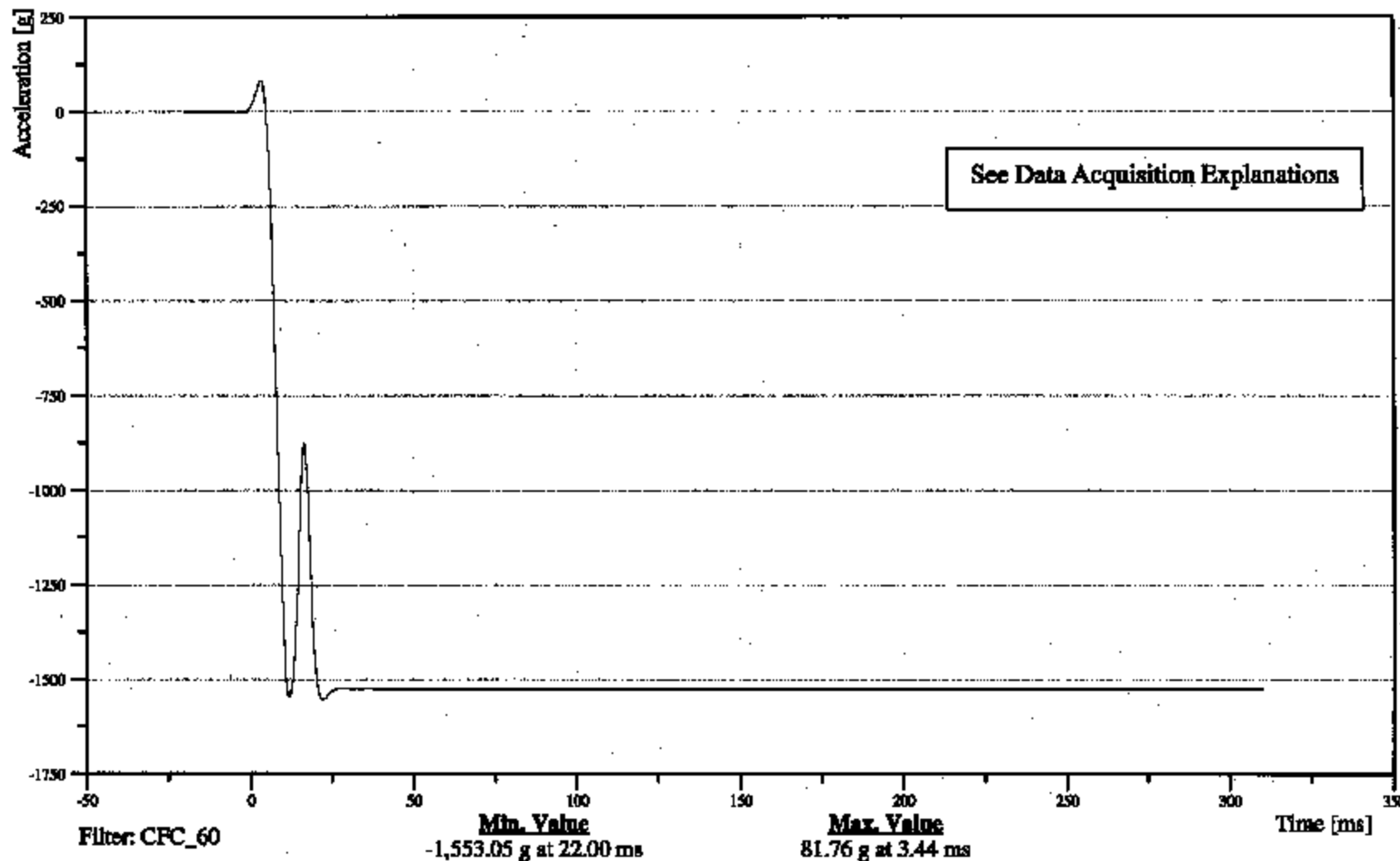
Time: 12:15

Customer: NHTSA

11APILO0000ACYD

TRC Inc. Test Lab: CTF

Test Number: 051017



Filter: CFC_60

Min. Value
-1,553.05 g at 22.00 ms

Max. Value
81.76 g at 3.44 ms

Time [ms]

B-53

051017



24 kph 90 Degree Side Impact (MDB) into Left Side of 2006 Mitsubishi Eclipse

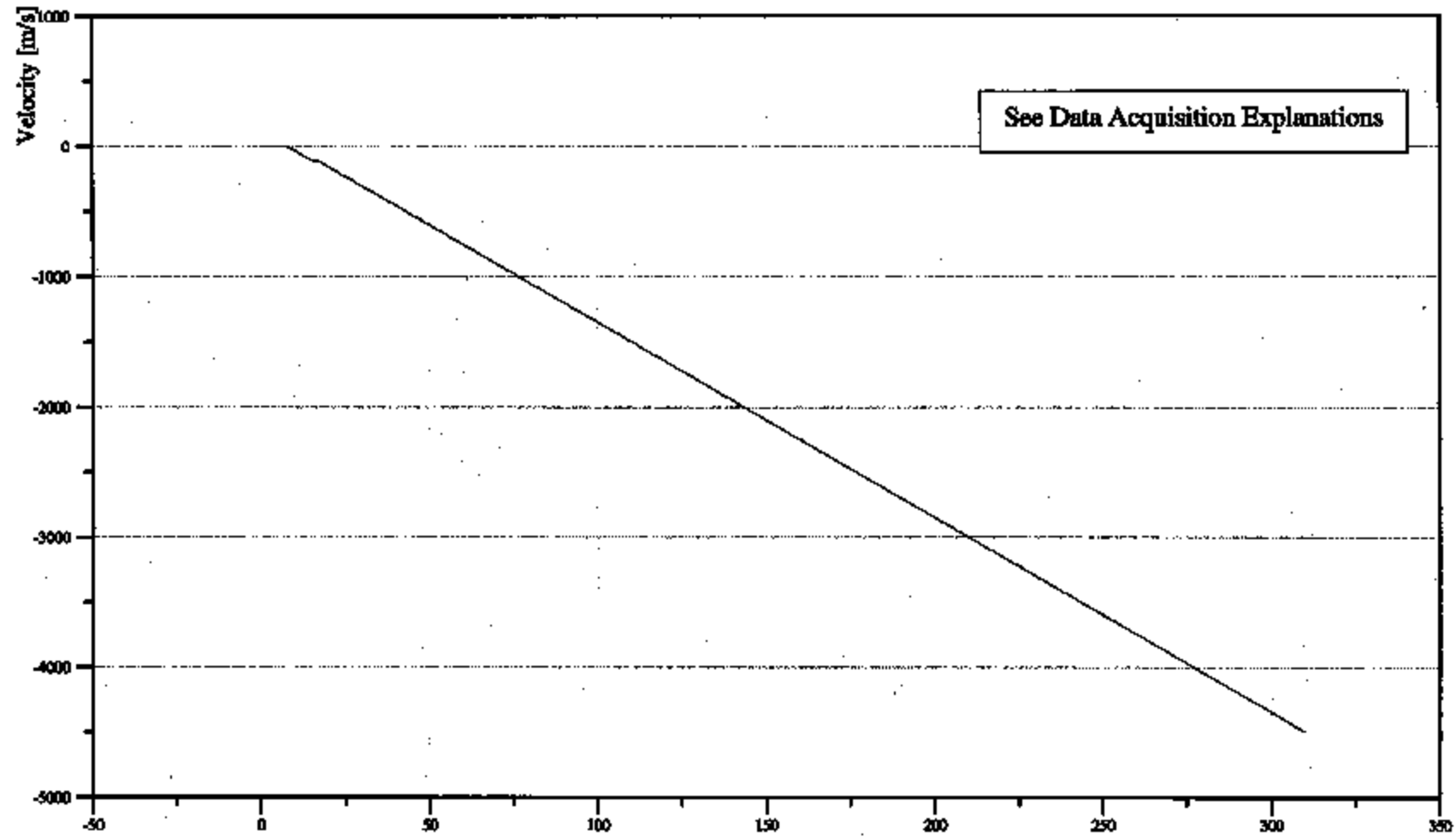
05/17/2005
Time: 12:15

LEFT LOWER A-POST (Y) VELOCITY VS TIME (#14)

Customer: NHTSA

11APILO0000VEYC

TRC Inc. Test Lab: CTF
Test Number: 051017



Filter: CFC_180

Min. Value
-4,493.02 m/s at 310.00 ms

Max. Value
2.29 m/s at 5.52 ms

B-54

051017



24 kph 90 Degree Side Impact (MDB) into Left Side of 2006 Mitsubishi Eclipse

05/17/2005
Time: 12:15

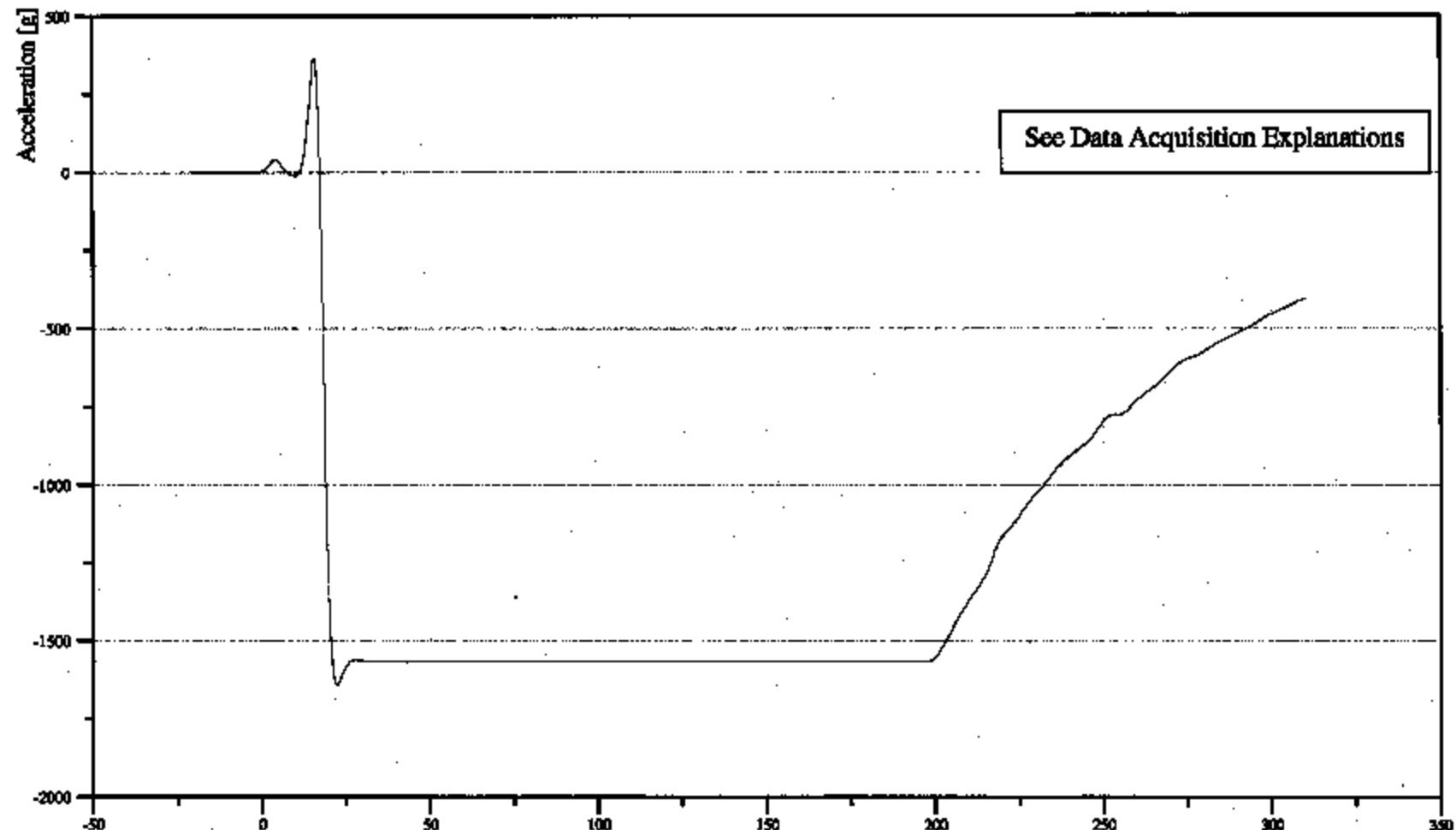
LEFT MID A-POST (Y) ACCELERATION VS TIME (#15)

Customer: NHTSA

11APILMI0000ACYD

TRC Inc. Test Lab: CTF

Test Number: 051017



Filter: CFC_60

Min. Value
-1,640.37 g at 22.32 ms

Max. Value
365.99 g at 15.84 ms

B-55

051017



3/24 kph 90 Degree Side Impact (MDB) into Left Side of 2006 Mitsubishi Eclipse

05/17/2005

Time: 12:15

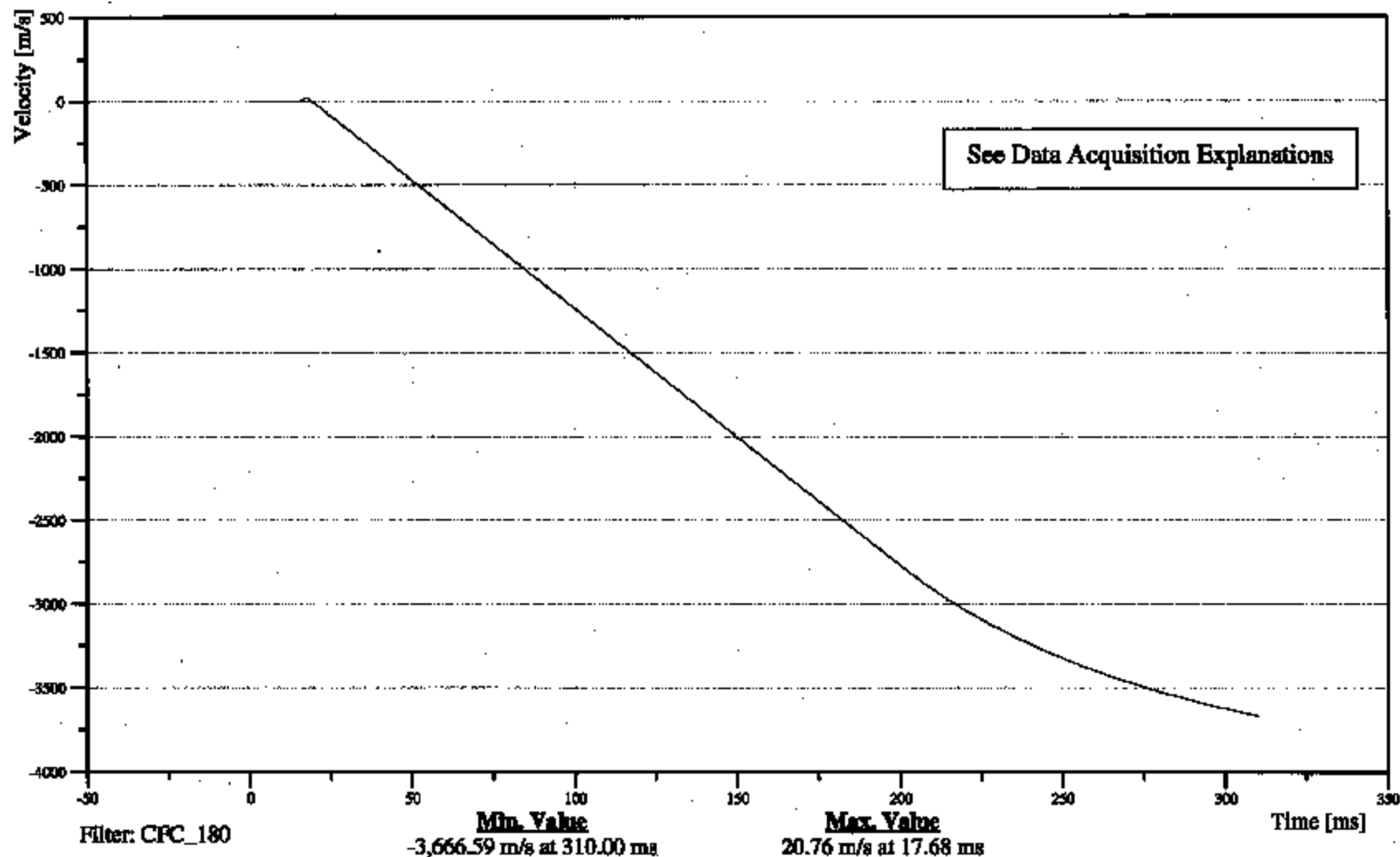
LEFT MID A-POST (Y) VELOCITY VS TIME (#15)

Customer: NHTSA

11APILMI0000VEYC

TRC Inc. Test Lab: CTF

Test Number: 051017



B-56

051017



24 kph 90 Degree Side Impact (MDB) into Left Side of 2006 Mitsubishi Eclipse

05/17/2005

LEFT LOWER B-POST (Y) ACCELERATION VS TIME (#12)

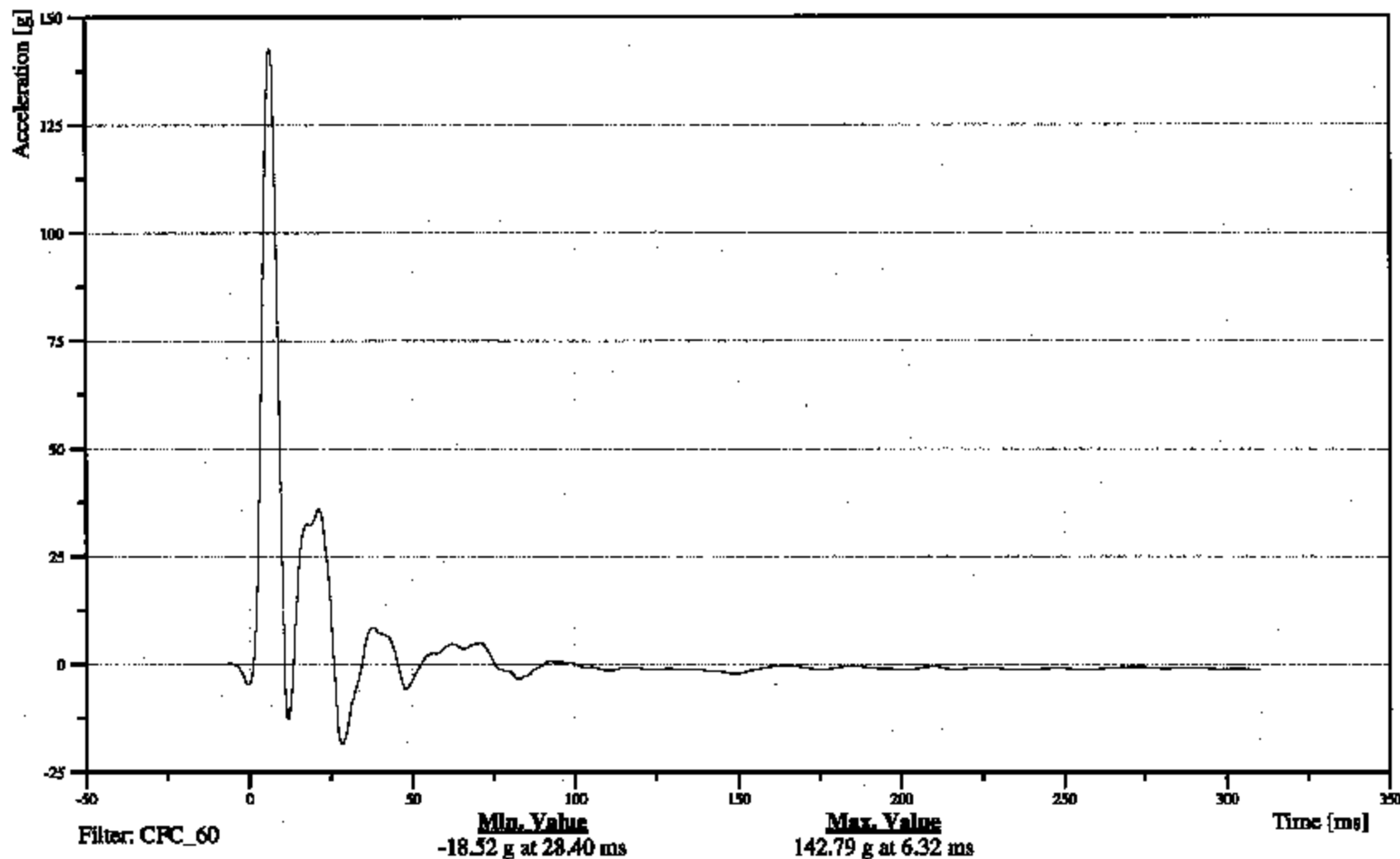
Time: 12:15

Customer: NHTSA

14BPILLO0000ACYD

TRC Inc. Test Lab: CTF

Test Number: 051017



B-57

051017



24 kph 90 Degree Side Impact (MDB) into Left Side of 2006 Mitsubishi Eclipse

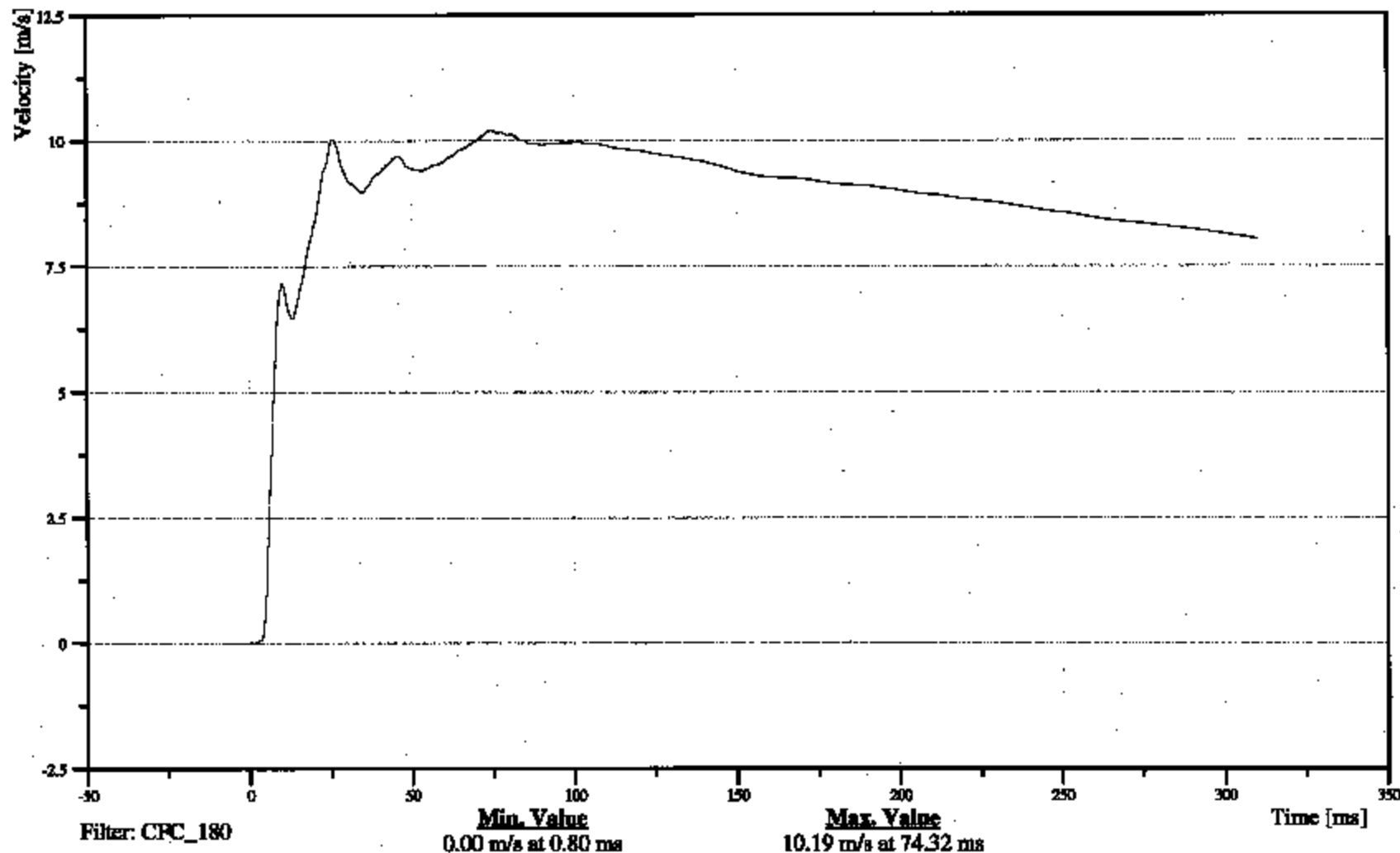
05/17/2005
Time: 12:15

LEFT LOWER B-POST (Y) VELOCITY VS TIME (#12)

Customer: NHTSA

14BPILLO0000VEYC

TRC Inc. Test Lab: CTF
Test Number: 051017



B-58

051017



31/24 kph 90 Degree Side Impact (MDB) into Left Side of 2006 Mitsubishi Eclipse

05/17/2005
Time: 12:13

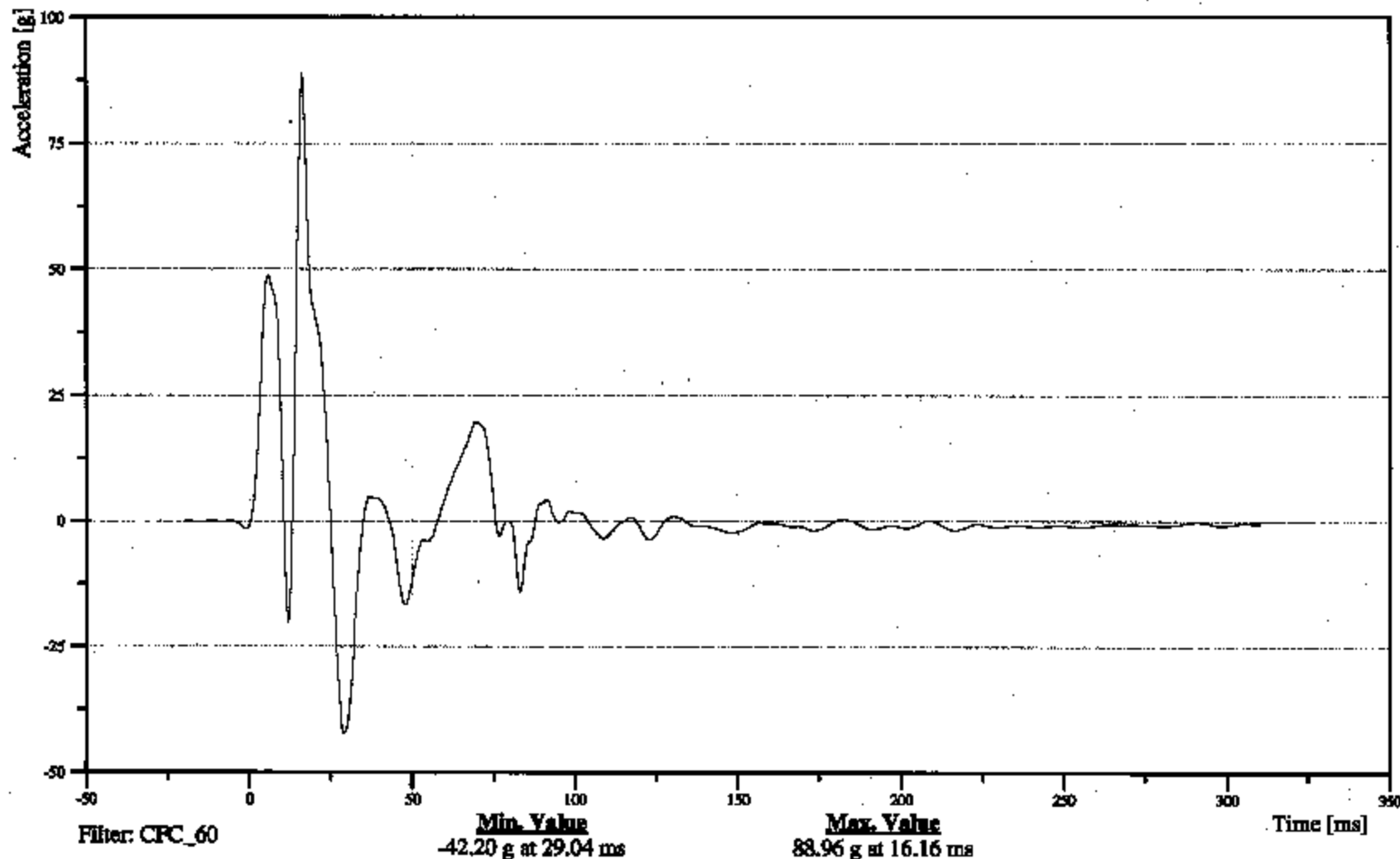
LEFT MID B-POST (Y) ACCELERATION VS TIME (#13)

Customer: NHTSA

14BPILMI0000ACYD

TRC Inc. Test Lab: CTF

Test Number: 051017



Filter: CFC_60

Min. Value
-42.20 g at 29.04 ms

Max. Value
88.96 g at 16.16 ms

Time [ms]

B-59

051017



24 kph 90 Degree Side Impact (MDB) into Left Side of 2006 Mitsubishi Eclipse

05/17/2005
Time: 12:15

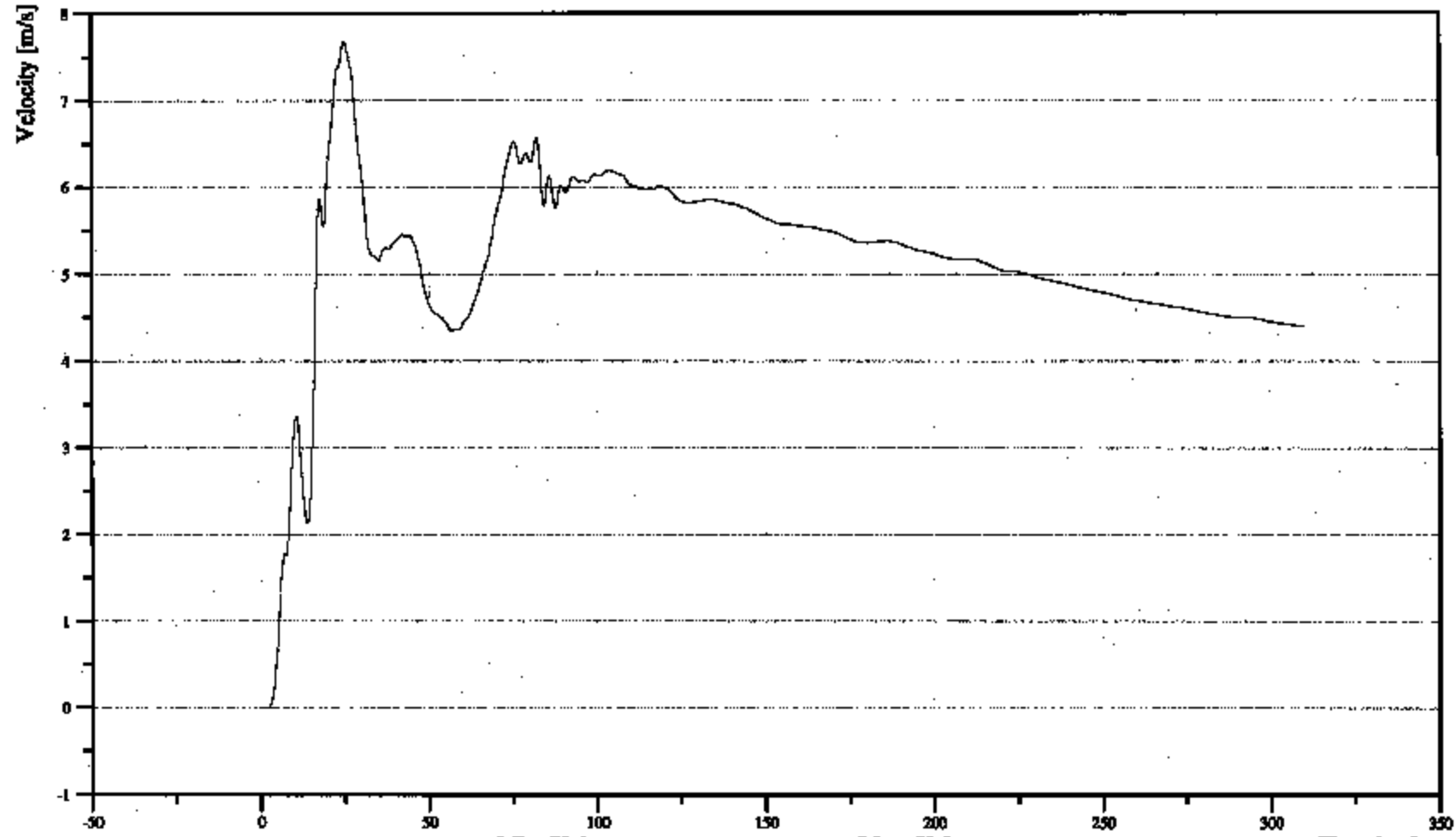
LEFT MID B-POST (Y) VELOCITY VS TIME (#13)

Customer: NHISA

14BPILMI0000VEYC

TRC Inc. Test Lab: CTF

Test Number: 051017



Filter: CFC_180

Min. Value
0.00 m/s at 2.08 ms

Max. Value
7.69 m/s at 24.88 ms

Time [ms]

B-60

051017



24 kph 90 Degree Side Impact (MDB) into Left Side of 2006 Mitsubishi Eclipse

11/17/2005

LEFT FRONT SEAT TRACK (Y) ACCELERATION VS TIME (#16)

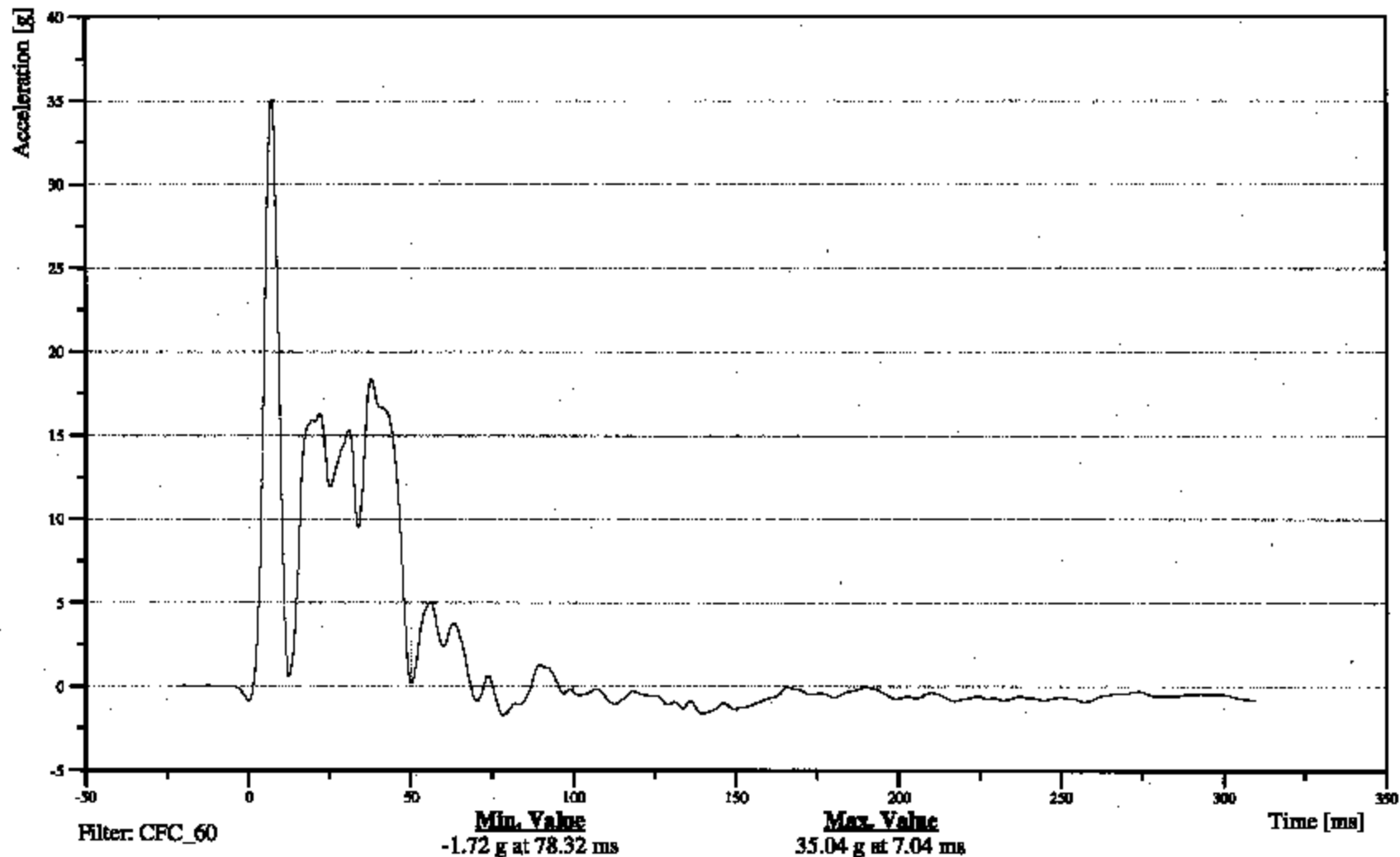
Time: 12:15

Customer: NHTSA

11SETRFR0000ACYD

TRC Inc. Test Lab: CTF

Test Number: 051017



B-61

051017



36/24 kph 90 Degree Side Impact (MDB) into Left Side of 2006 Mitsubishi Eclipse

Time: 12:15

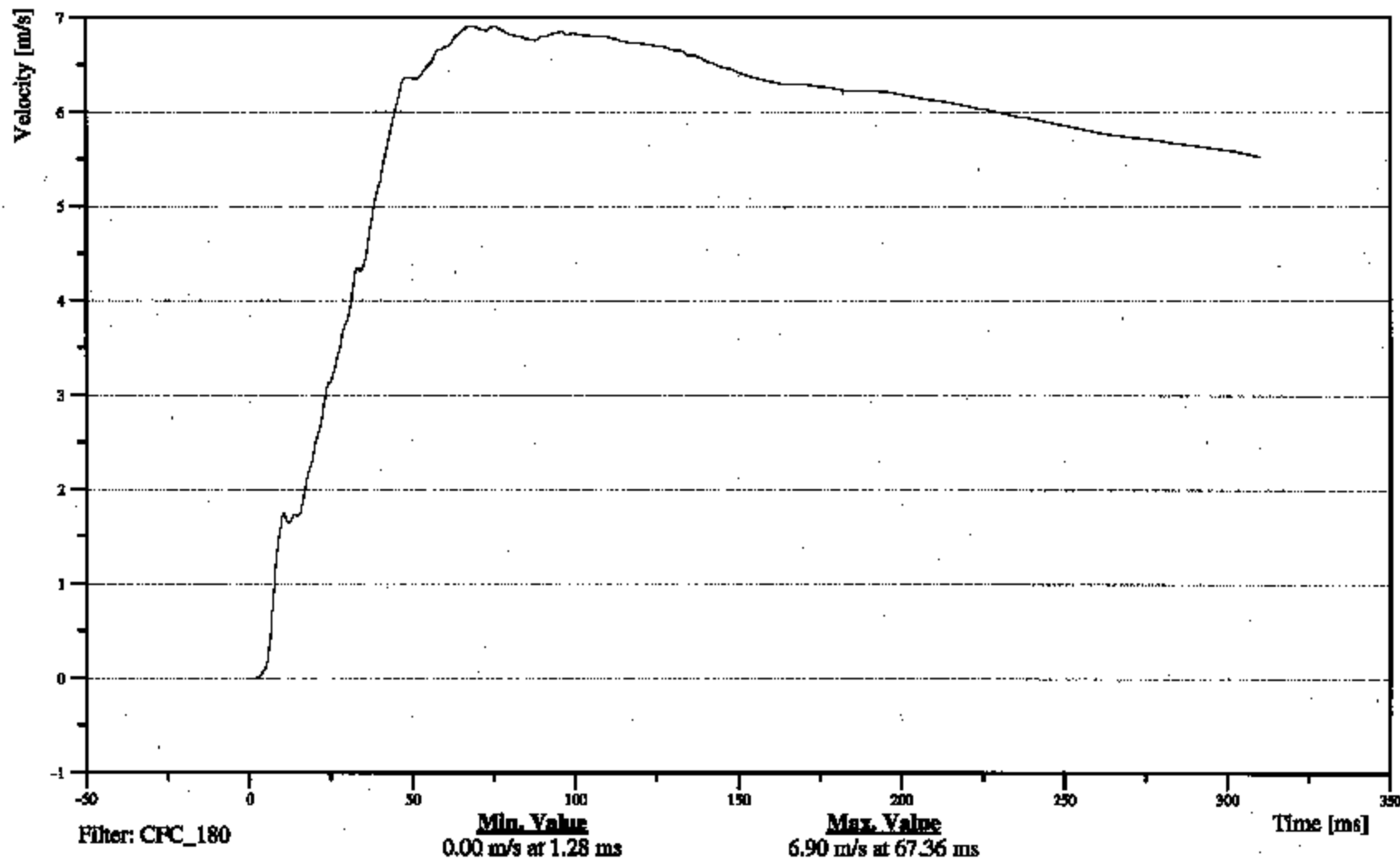
LEFT FRONT SEAT TRACK (Y) VELOCITY VS TIME (#16)

Customer: NHTSA

11SETRFR0000VEYC

TRC Inc. Test Lab: CTF

Test Number: 051017



B-62

051017



33/24 kph 90 Degree Side Impact (MDB) into Left Side of 2006 Mitsubishi Eclipse

05/17/2005
Time: 12:15

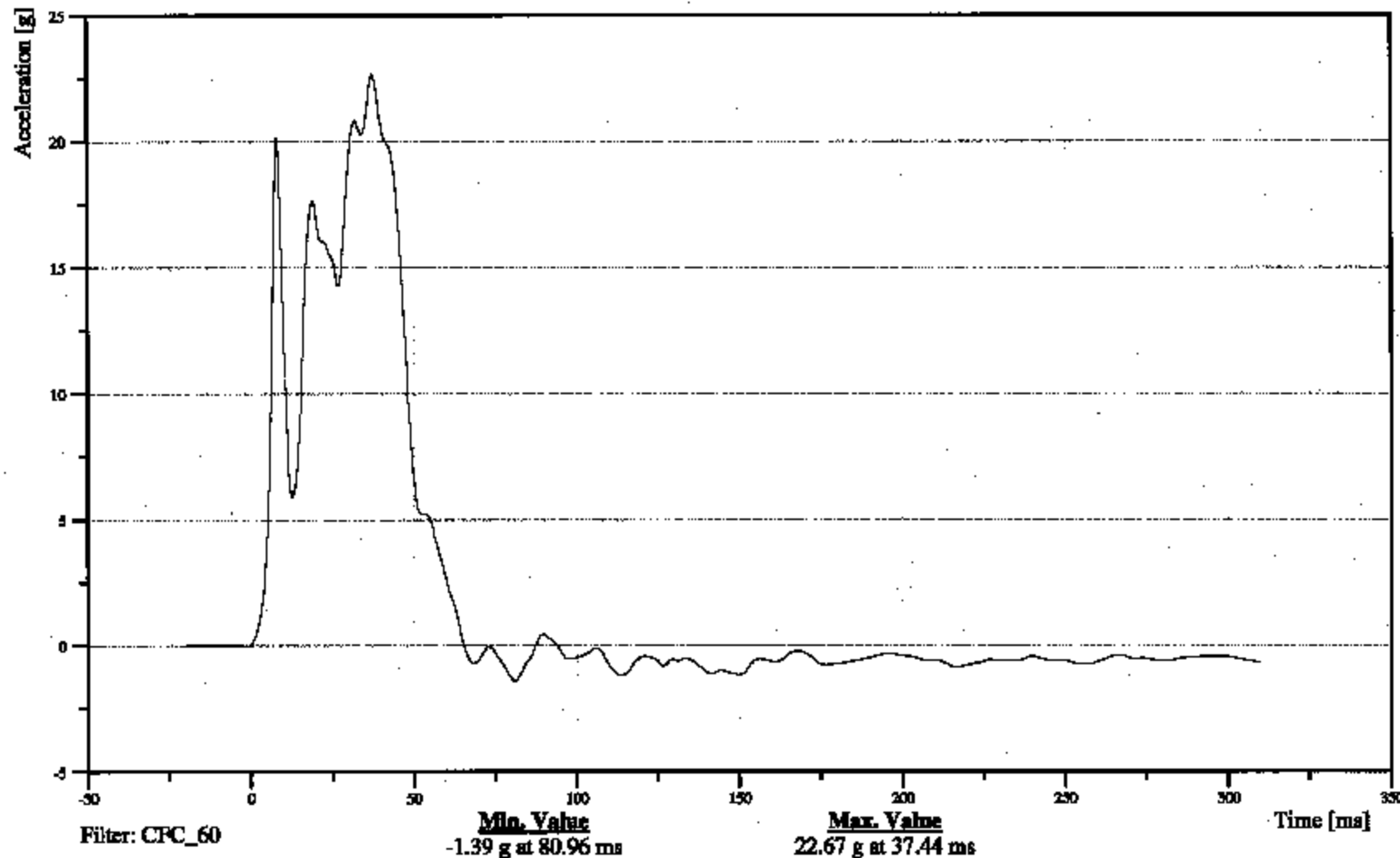
LEFT REAR SEAT TRACK (Y) ACCELERATION VS TIME

Customer: NETSA

14SETRLERE00ACYD

TRC Inc. Test Lab: CTF

Test Number: 051017



B-63

051017



24 kph 90 Degree Side Impact (MDB) into Left Side of 2006 Mitsubishi Eclipse

05/17/2005

LEFT REAR SEAT TRACK (Y) VELOCITY VS TIME

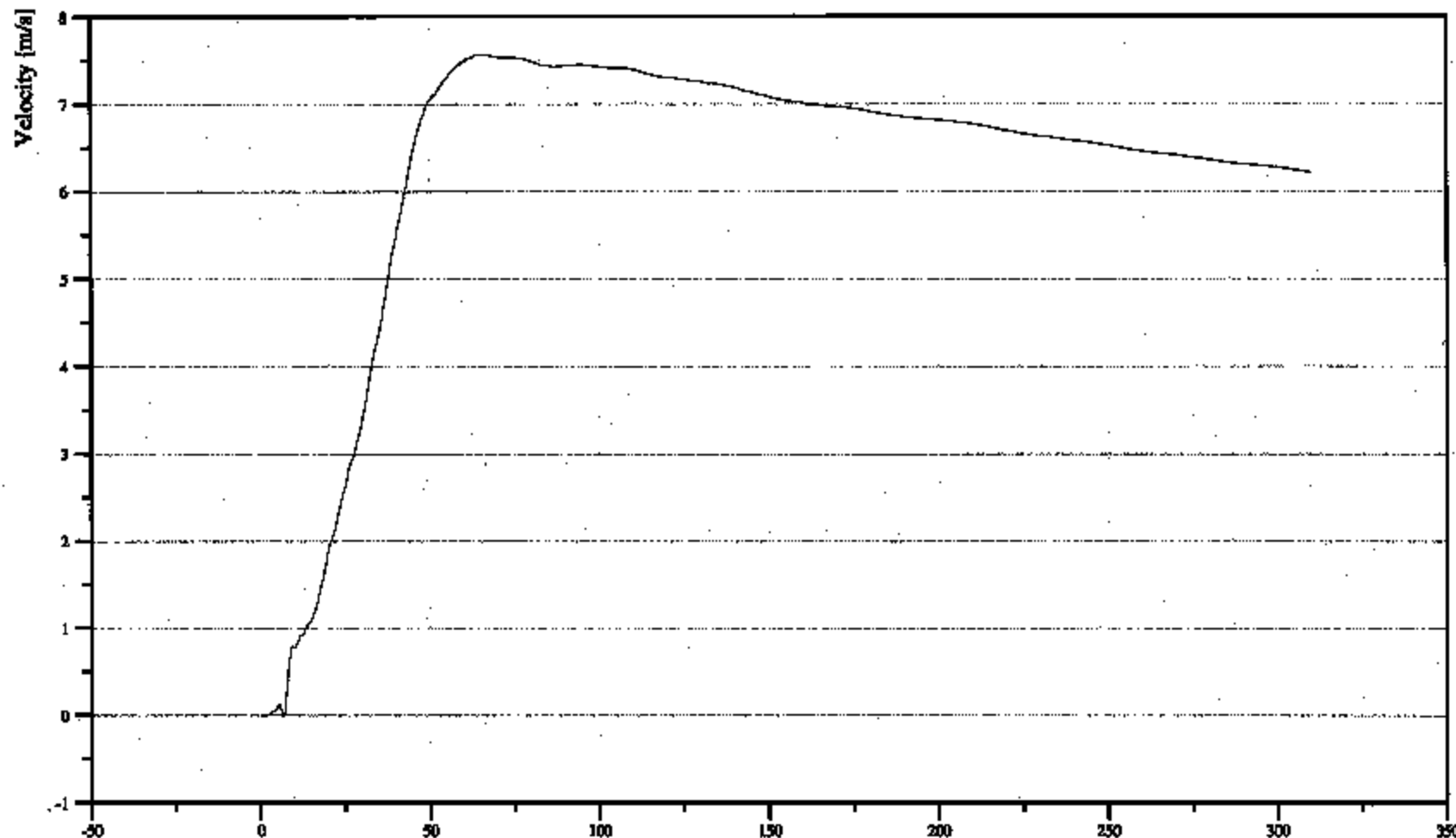
Time: 12:15

Customer: NHTSA

14SETRLERE00VEYC

TRC Inc. Test Lab: CTF

Test Number: 051017



Filter: CFC_180

Min. Value
-0.01 m/s at 6.48 ms

Max. Value
7.57 m/s at 65.52 ms

Time [ms]

B-64

051017



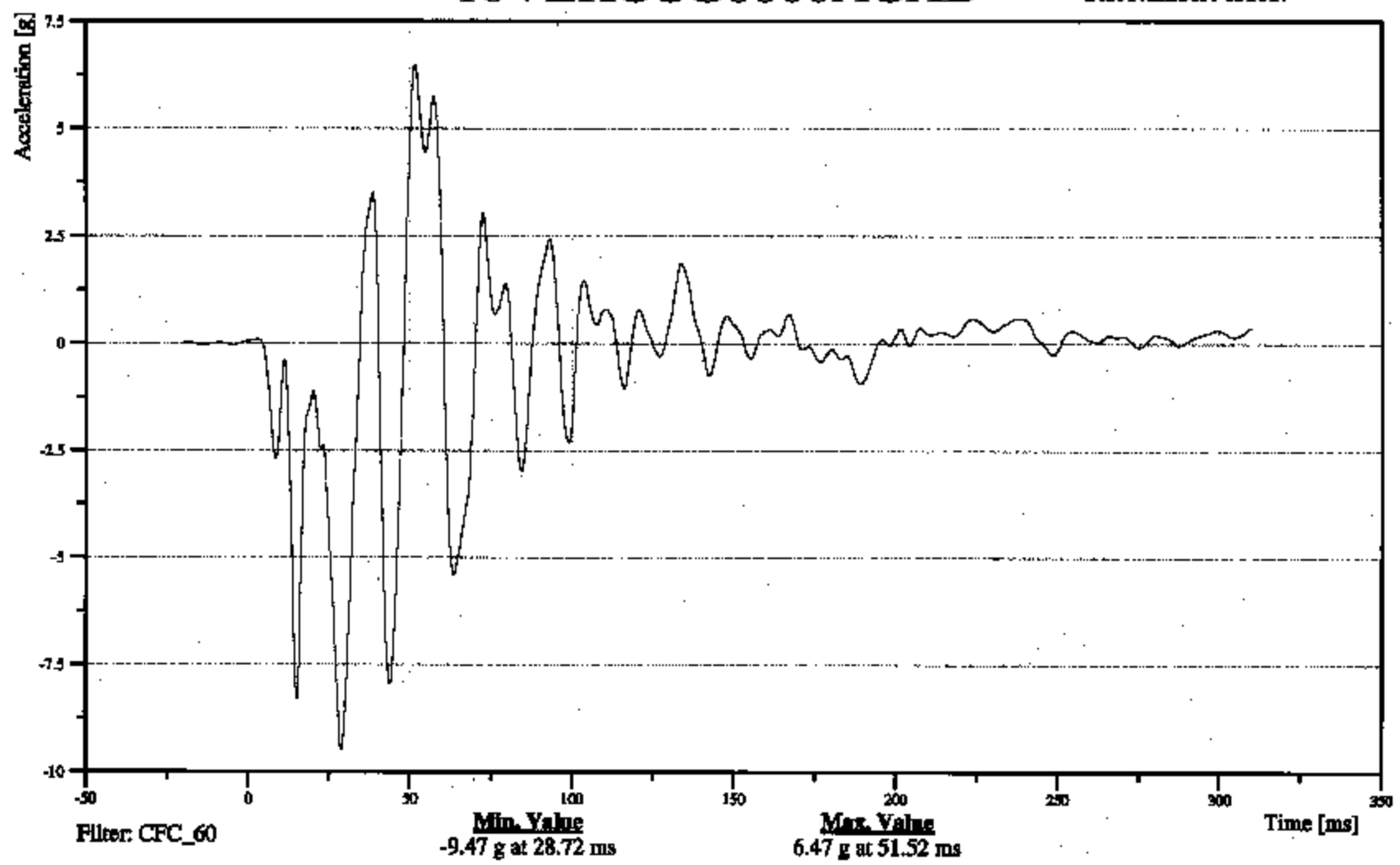
30/24 kph 90 Degree Side Impact (MDB) into Left Side of 2006 Mitsubishi Eclipse
VEHICLE CENTER OF GRAVITY (X) ACCELERATION VS TIME (#18)

05/17/2005
Time: 12:15

Customer: NHTSA

10VEHCCG0000ACXD

TRC Inc. Test Lab: CTF
Test Number: 051017



B-65

051017



24 kph 90 Degree Side Impact (MDB) into Left Side of 2006 Mitsubishi Eclipse

05/17/2005

VEHICLE CENTER OF GRAVITY (X) VELOCITY VS TIME (#18)

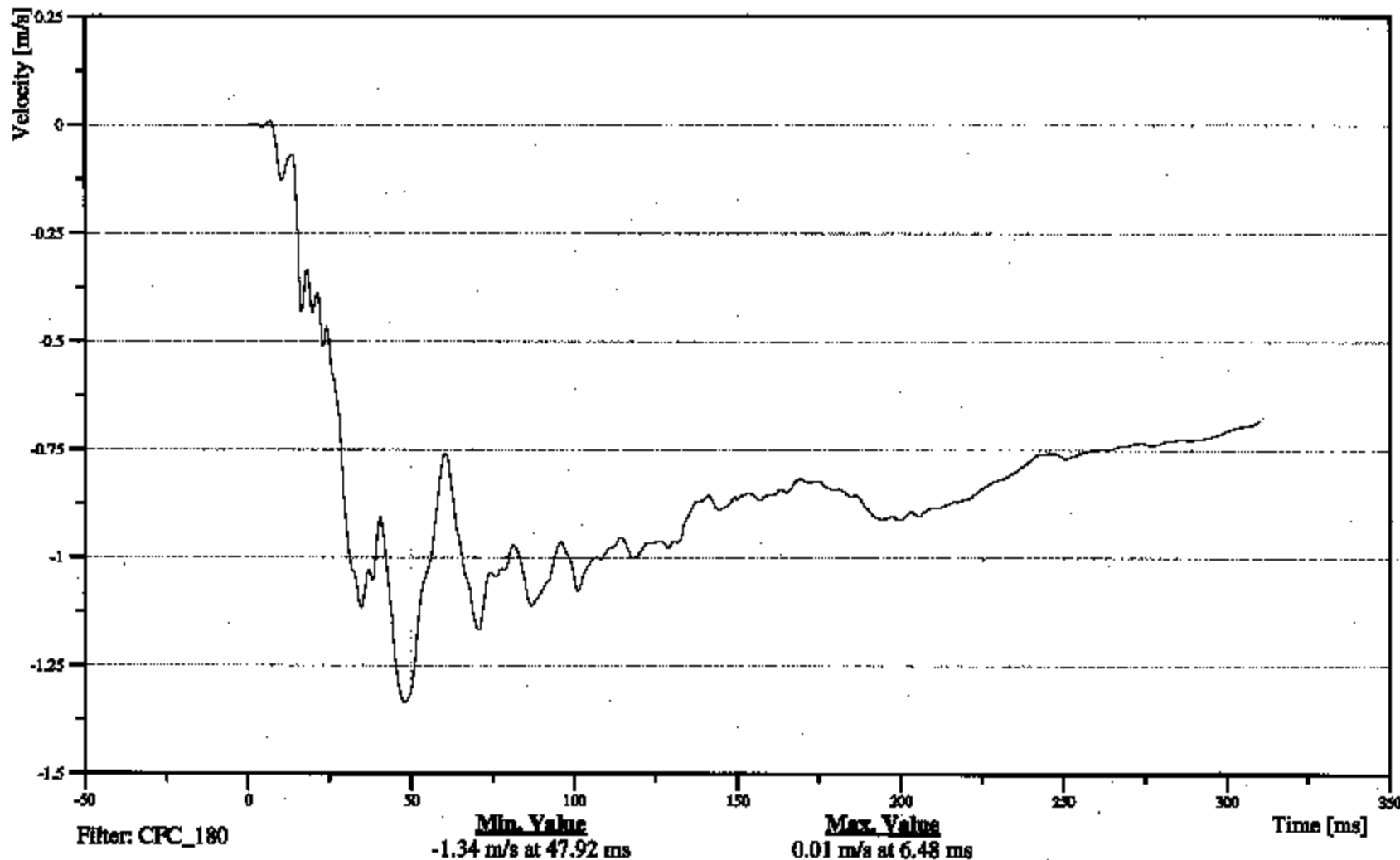
Time: 12:15

Customer: NHTSA

10VEHCCG0000VEXC

TRC Inc. Test Lab: CTF

Test Number: 051017



B-66

051017



24 kph 90 Degree Side Impact (MDB) into Left Side of 2006 Mitsubishi Eclipse

05/17/2005
Time: 12:13

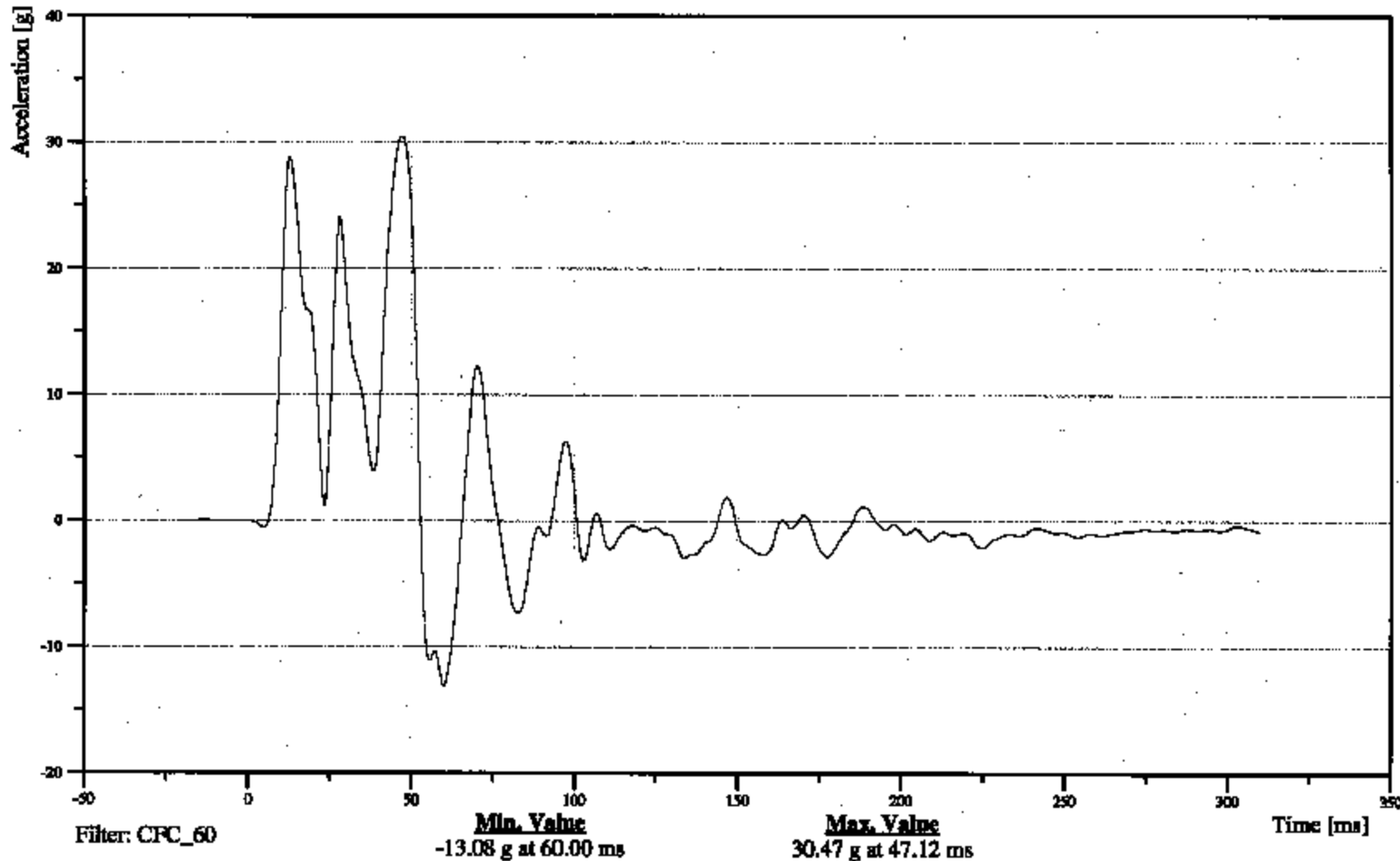
VEHICLE CENTER OF GRAVITY (Y) ACCELERATION VS TIME (#18)

Customer: NHTSA

10VEHCCG0000ACYD

TRC Inc. Test Lab: CTF

Test Number: 051017



B-67

051017



24 kph 90 Degree Side Impact (MDB) into Left Side of 2006 Mitsubishi Eclipse

05/17/2005
Time: 12:15

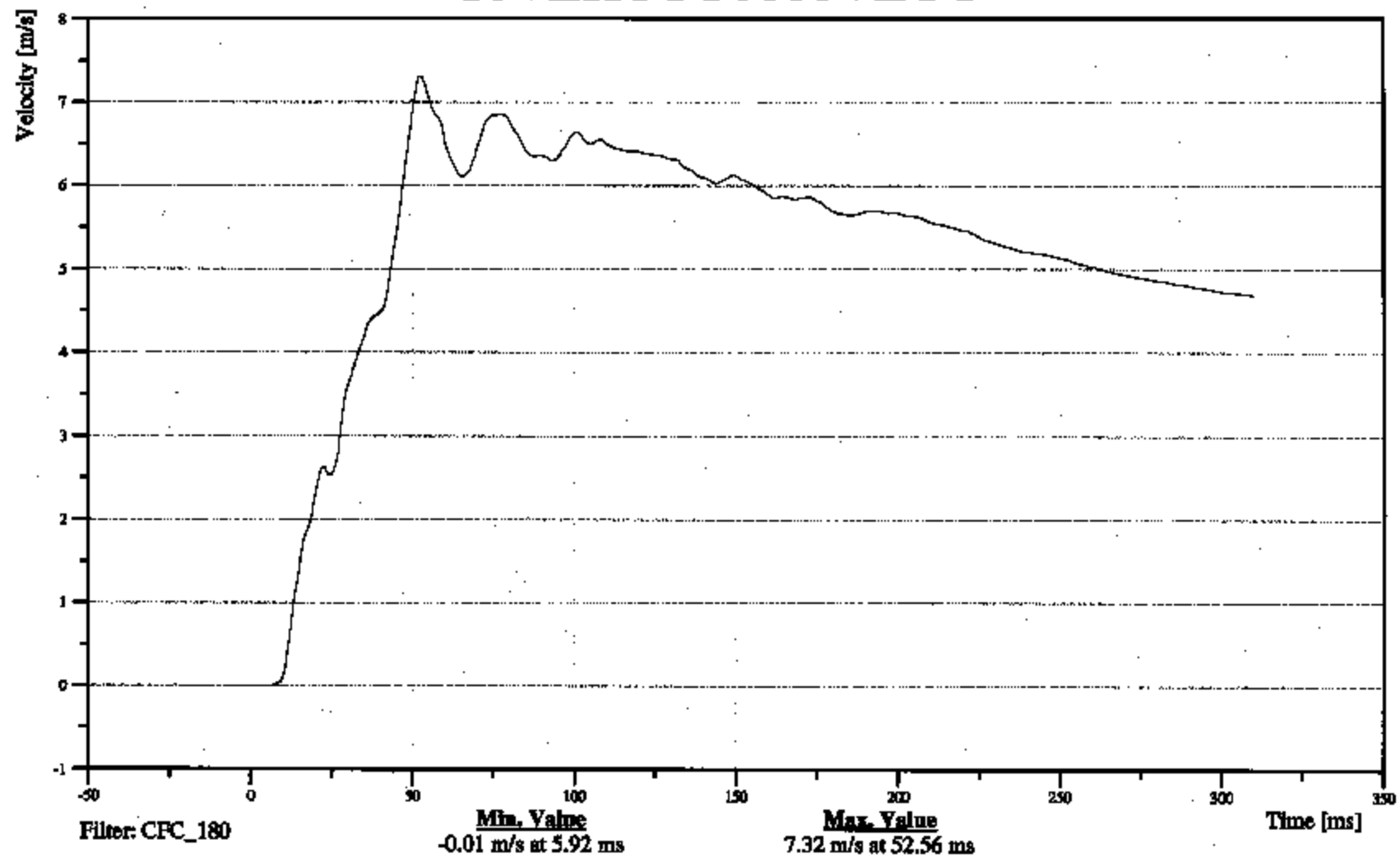
VEHICLE CENTER OF GRAVITY (Y) VELOCITY VS TIME (#18)

Customer: NHTSA

10VEHCCG0000VEYC

TRC Inc. Test Lab: CTF

Test Number: 051017



B-68

051017



30/24 kph 90 Degree Side Impact (MDB) into Left Side of 2006 Mitsubishi Eclipse

05/17/2005

VEHICLE CENTER OF GRAVITY (Z) ACCELERATION VS TIME (#18)

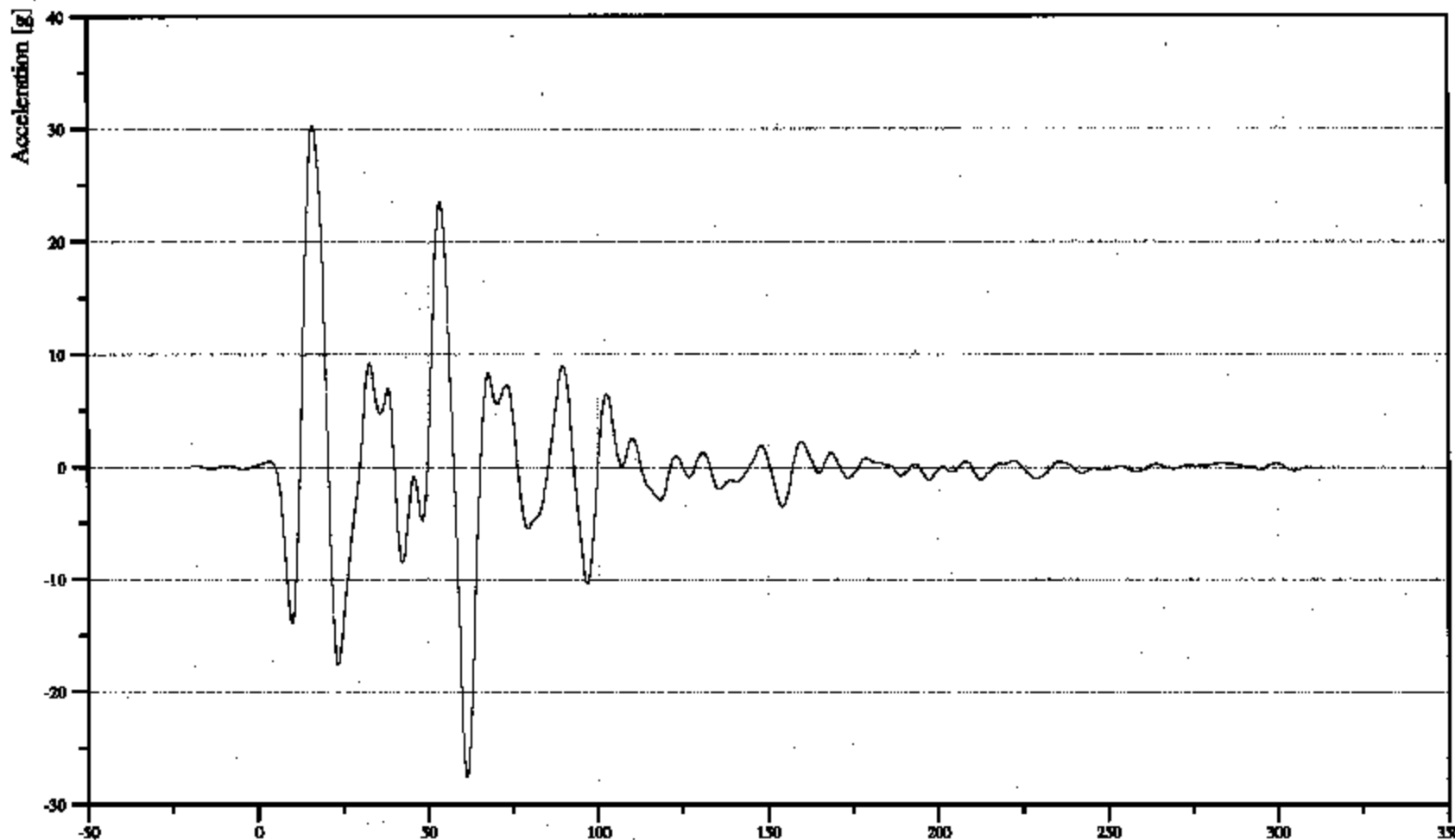
Time: 12:15

Customer: NHTSA

10VEHCCG0000ACZD

TRC Inc. Test Lab: CTF

Test Number: 051017



Filter: CFC_60

Min. Value
-27.58 g at 61.36 ms

Max. Value
30.37 g at 16.00 ms

Time [ms]

B-69

051017



36/24 kph 90 Degree Side Impact (MDB) into Left Side of 2006 Mitsubishi Eclipse

05/17/2006

Time: 12:15

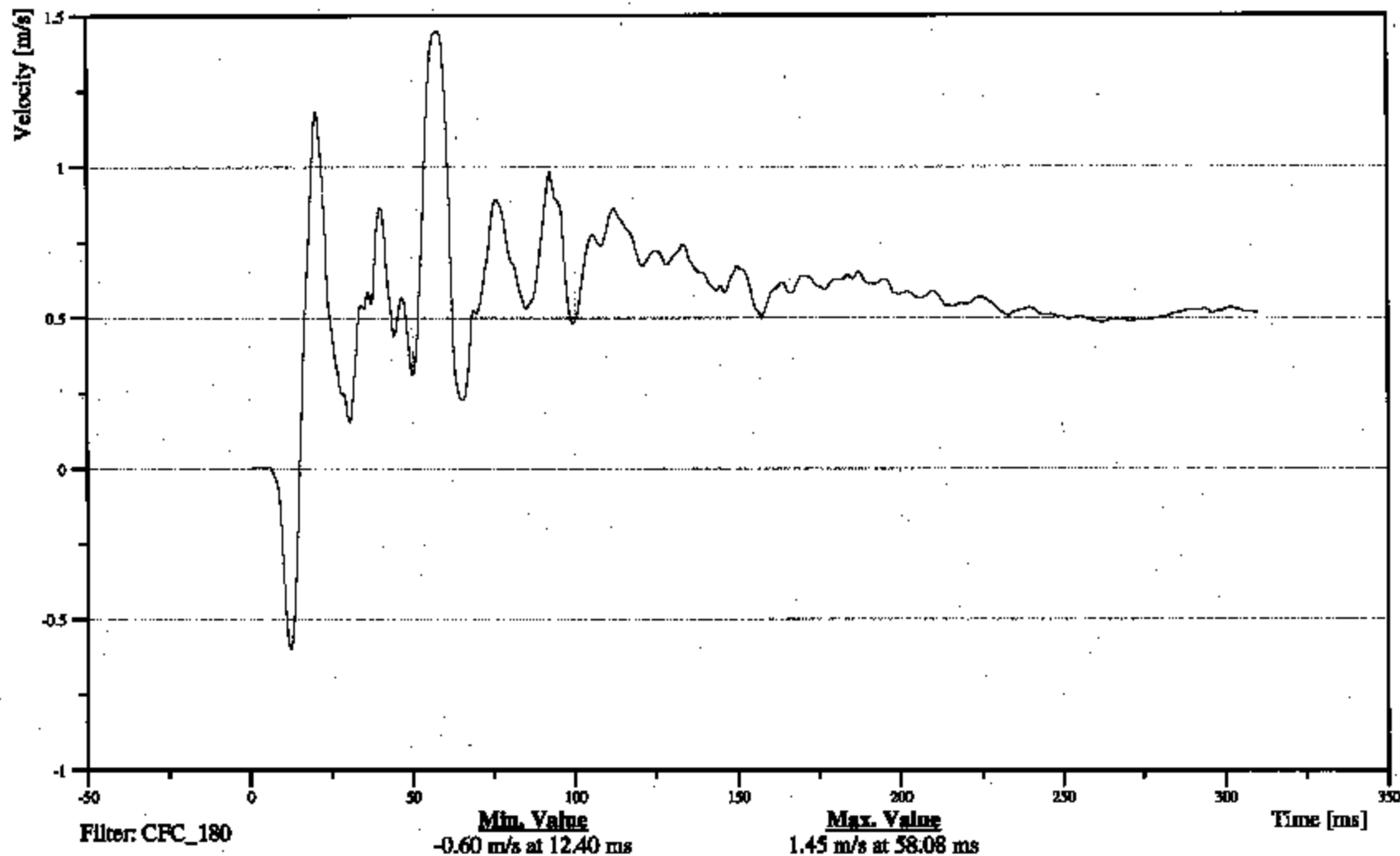
VEHICLE CENTER OF GRAVITY (Z) VELOCITY VS TIME (#18)

Customer: NHTSA

10VEHCCG0000VEZC

TRC Inc. Test Lab: CTF

Test Number: 051017



B-70

051017



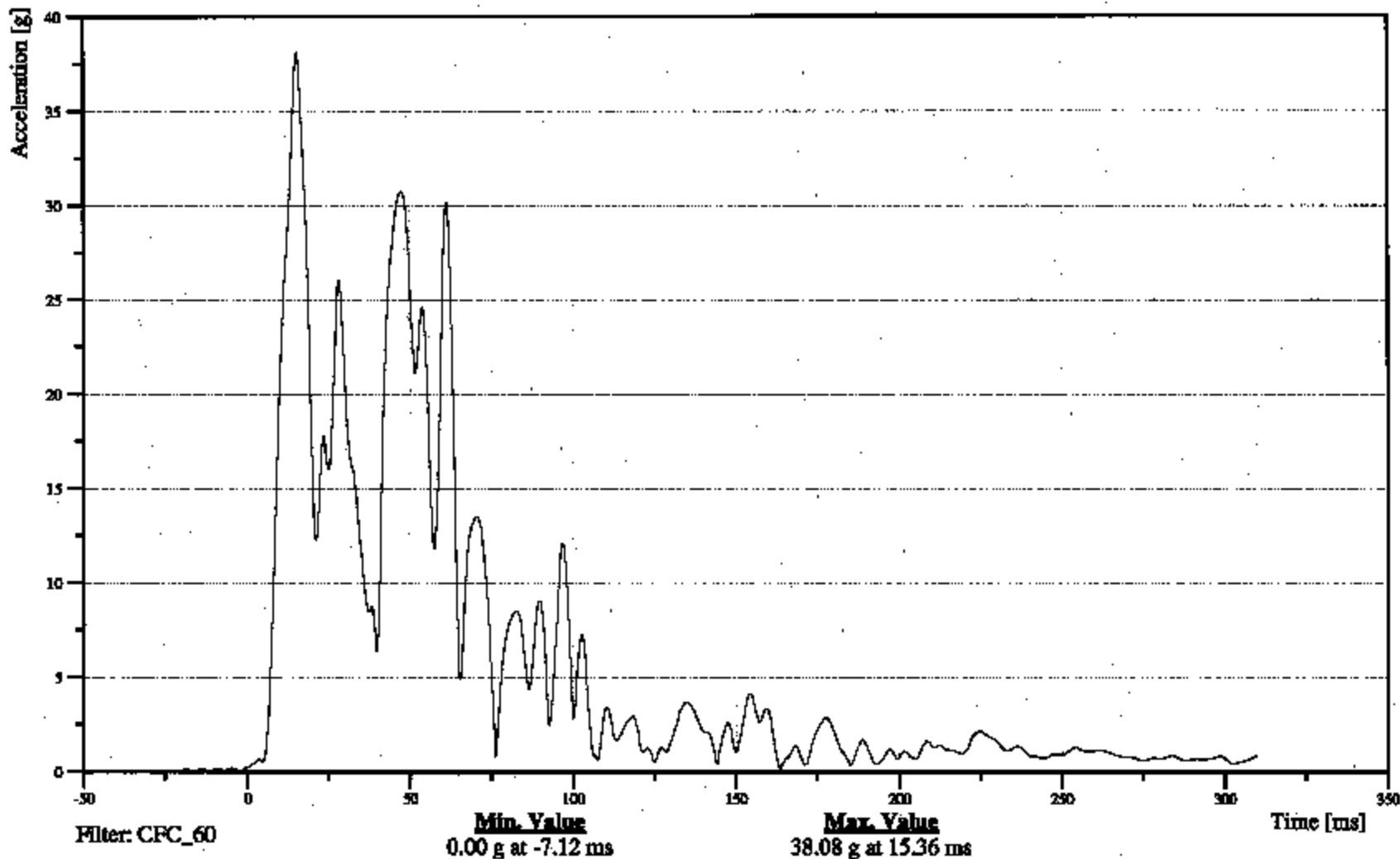
31/24 kph 90 Degree Side Impact (MDB) into Left Side of 2006 Mitsubishi Eclipse
VEHICLE CENTER OF GRAVITY RESULTANT ACCELERATION VS TIME (#18)

05/17/2005
Time: 12:15

Customer: NHTSA

10VEHCCG0000ACRD

TRC Inc. Test Lab: CTF
Test Number: 051017



B-71

051017

MDB Instrumentation Plots
Acceleration Data - Filter Class 60
Integration Data - Filter Class 180



24 kph 90 Degree Side Impact (MDB) into Left Side of 2006 Mitsubishi Eclipse

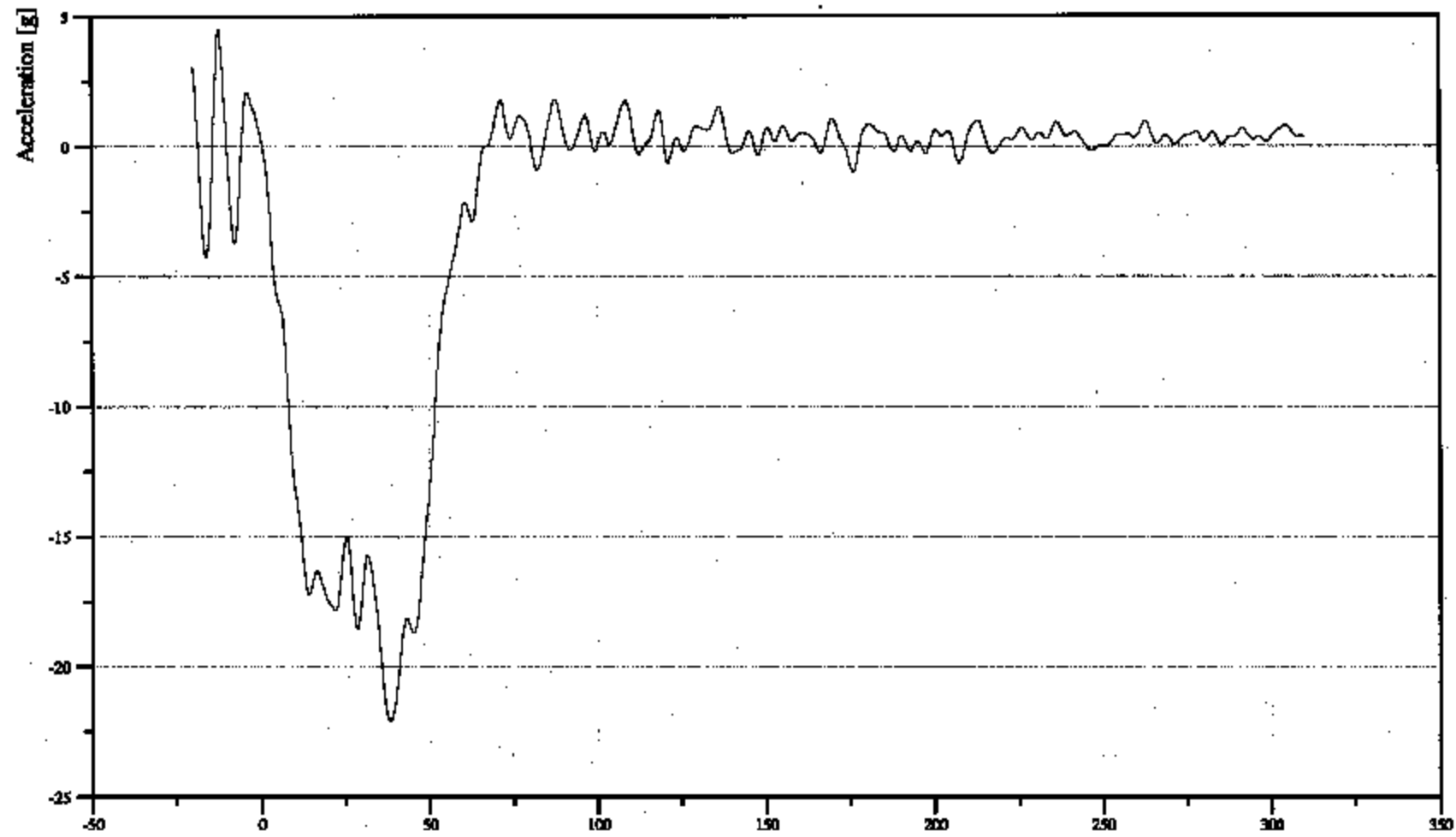
05/17/2005
Time: 12:15

MDB CENTER OF GRAVITY (X) ACCELERATION VS TIME (#1)

Customer: NHTSA

M0VEHCCG0000ACXD

TRC Inc. Test Lab: CTF
Test Number: 051017



Filter: CFC_60

Min. Value
-22.08 g at 38.08 ms

Max. Value
4.50 g at -12.40 ms

Time [ms]

B-73

051017



33/24 kph 90 Degree Side Impact (MDB) into Left Side of 2006 Mitsubishi Eclipse

05/17/2005

Time: 12:15

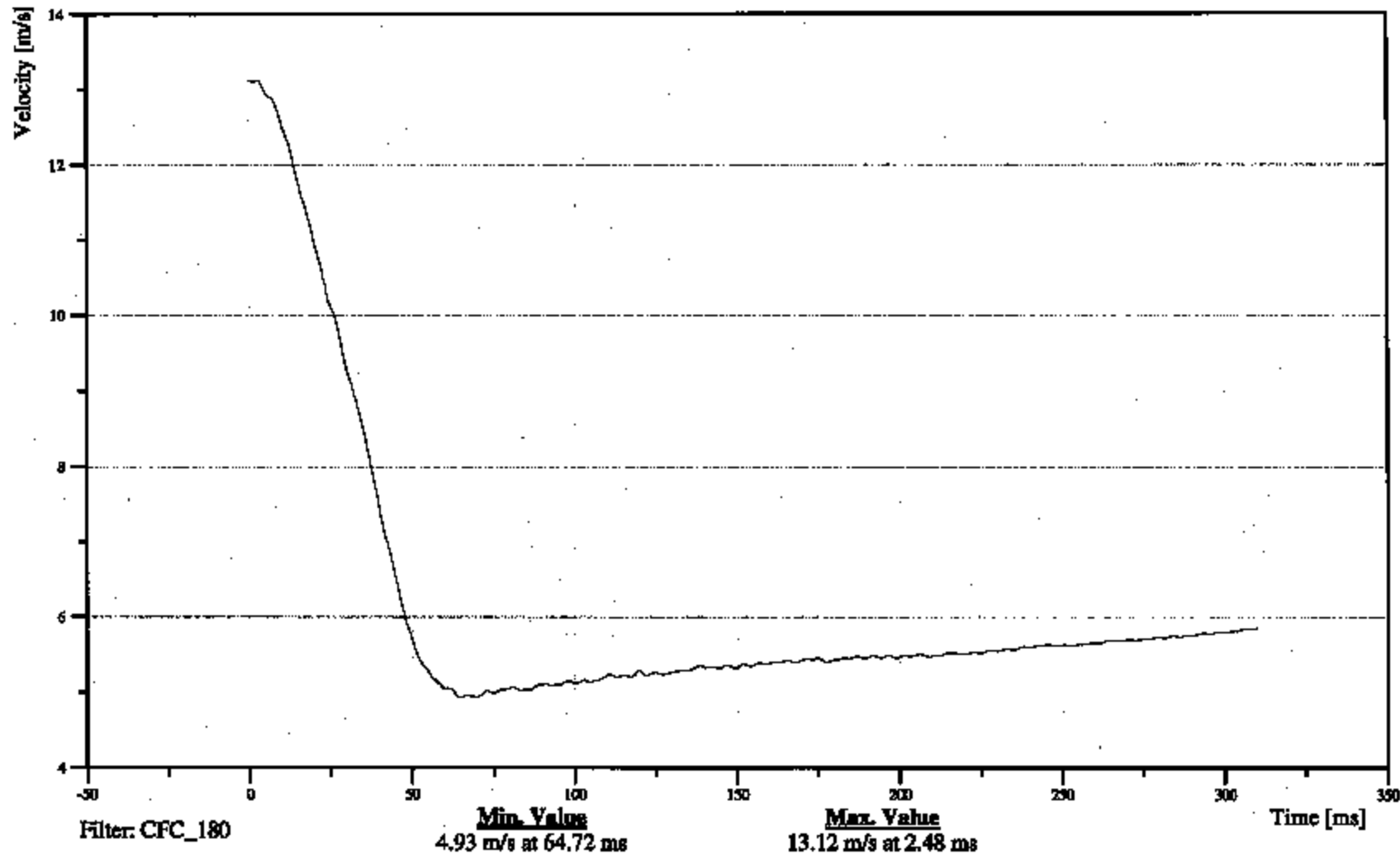
MDB CENTER OF GRAVITY (X) VELOCITY VS TIME (#1)

Customer: NHTSA

M0VEHCCG0000VEXC

TRC Inc. Test Lab: CTF

Test Number: 051017



B-74

051017



30/24 kph 90 Degree Side Impact (MDB) into Left Side of 2006 Mitsubishi Eclipse

10/17/2005
Time: 12:15

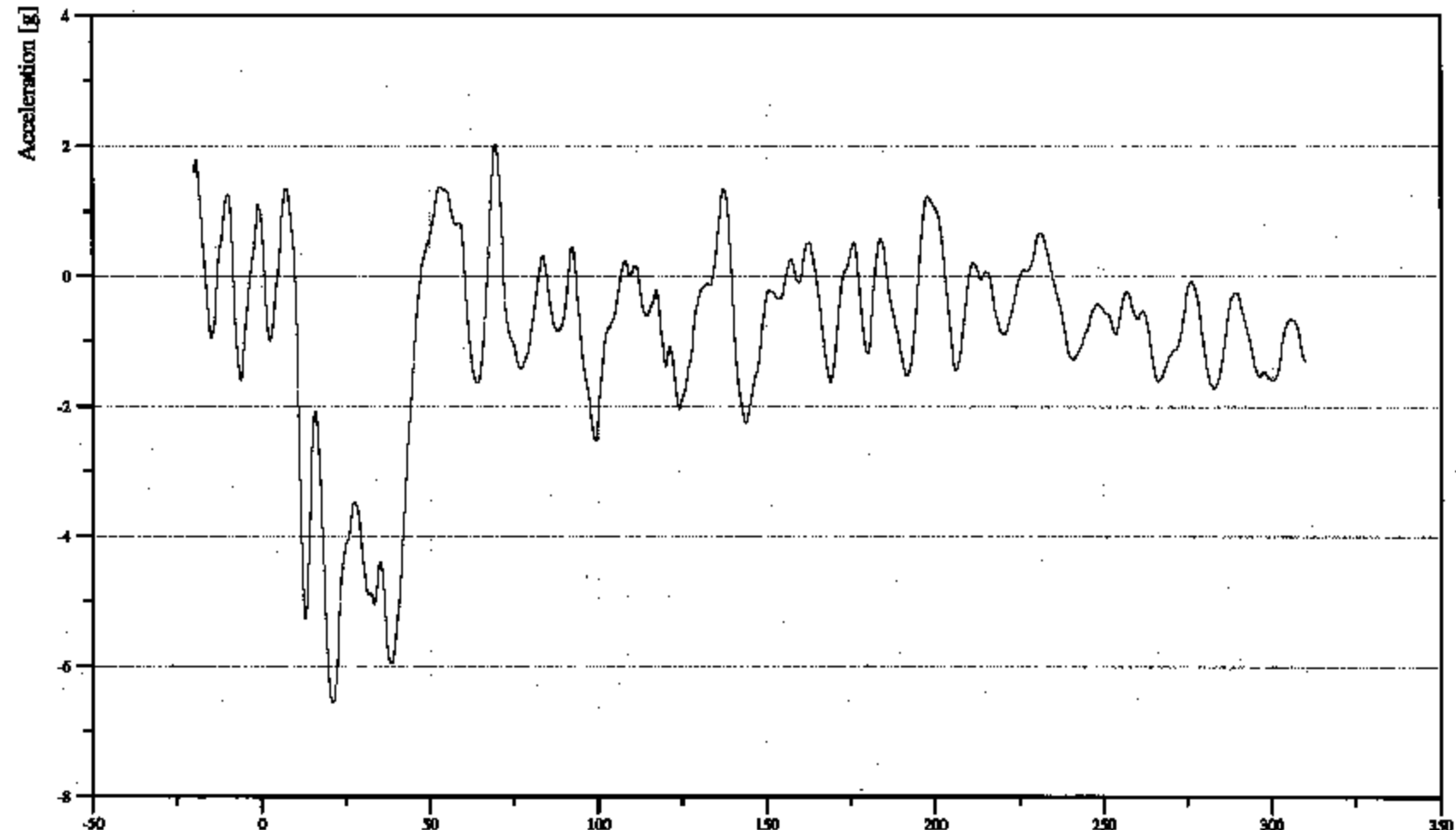
MDB CENTER OF GRAVITY (Y) ACCELERATION VS TIME(#1)

Customer: NHTSA

M0VEHCCG0000ACYD

TRC Inc. Test Lab: CTF

Test Number: 051017



Filter: CPC_60

Min. Value
-6.55 g at 21.12 ms

Max. Value
2.01 g at 69.44 ms

Time [ms]

B-75

051017



31/24 kph 90 Degree Side Impact (MDB) into Left Side of 2006 Mitsubishi Eclipse

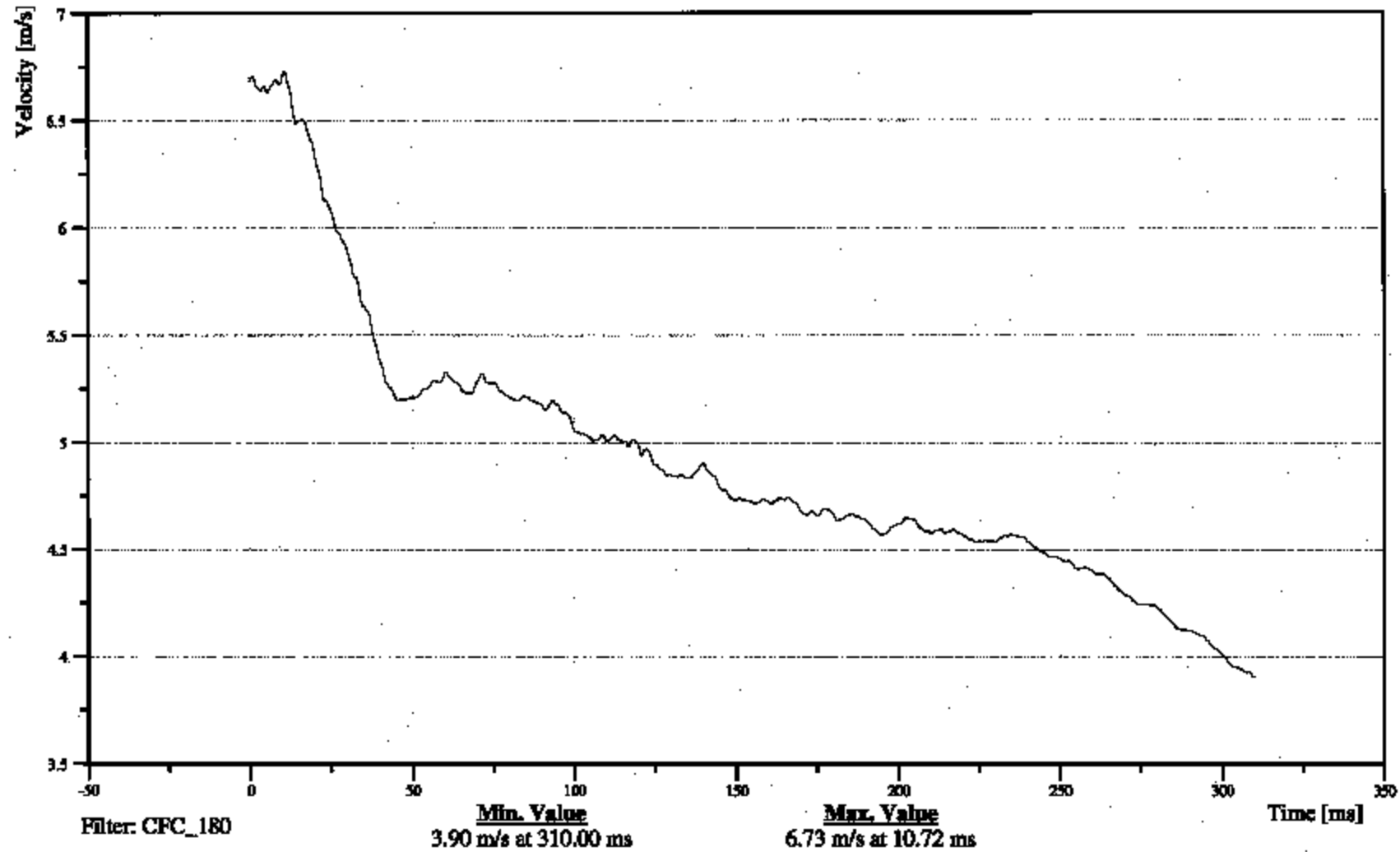
Time: 12:13
Date: 01/17/2006

MDB CENTER OF GRAVITY (Y) VELOCITY VS TIME(#1)

Customer: NHTSA

M0VEHCCG0000VEYC

TRC Inc. Test Lab: CTF
Test Number: 051017



B-76

051017



31/24 kph 90 Degree Side Impact (MDB) into Left Side of 2006 Mitsubishi Eclipse

05/17/2005
Time: 12:15

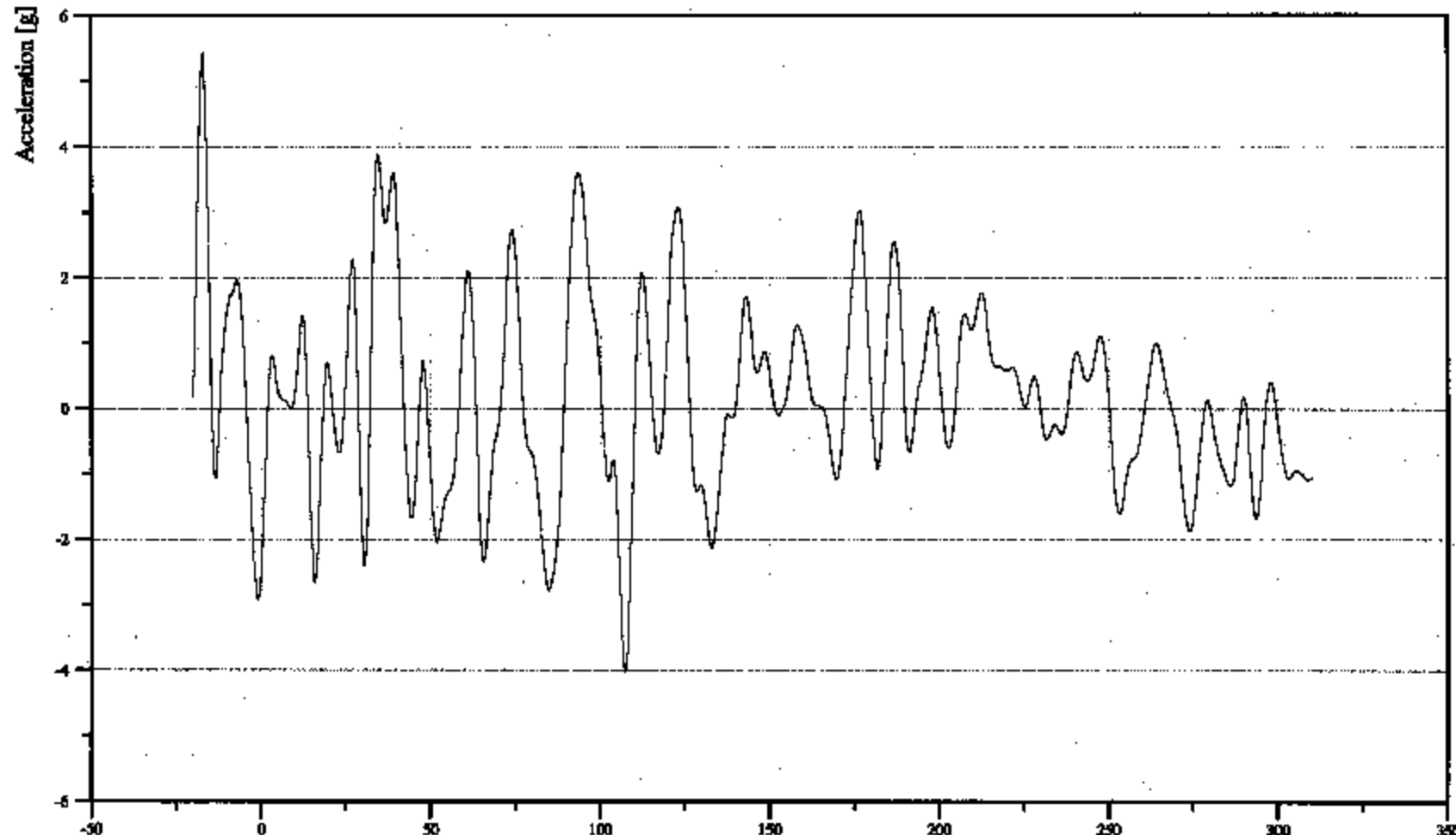
MDB CENTER OF GRAVITY (Z) ACCELERATION VS TIME(#1)

Customer: NHTSA

M0VEHCCG0000ACZD

TRC Inc. Test Lab: CTF

Test Number: 051017



Filter: CFC_60

Min. Value
-4.03 g at 107.36 ms

Max. Value
5.42 g at -17.12 ms

Time [ms]

B-77

051017



46/24 kph 90 Degree Side Impact (MDB) into Left Side of 2006 Mitsubishi Eclipse

05/17/2005
Time: 12:15

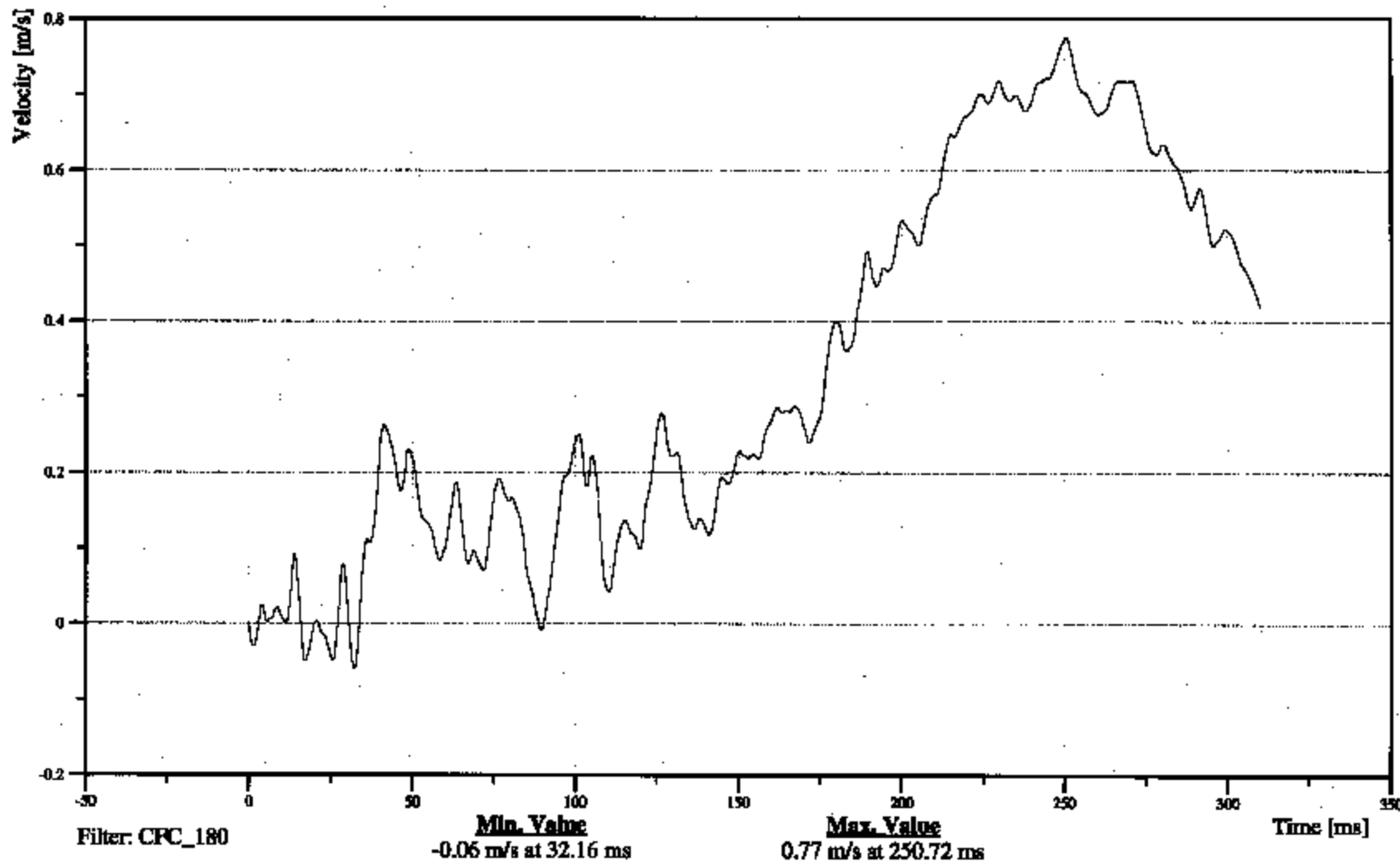
MDB CENTER OF GRAVITY (Z) VELOCITY VS TIME(#1)

Customer: NHTSA

MOVEHCCG0000VEZC

TRC Inc. Test Lab: CTF

Test Number: 051017



B-78

051017



24 kph 90 Degree Side Impact (MDB) into Left Side of 2006 Mitsubishi Eclipse

05/17/2005
Time: 12:15

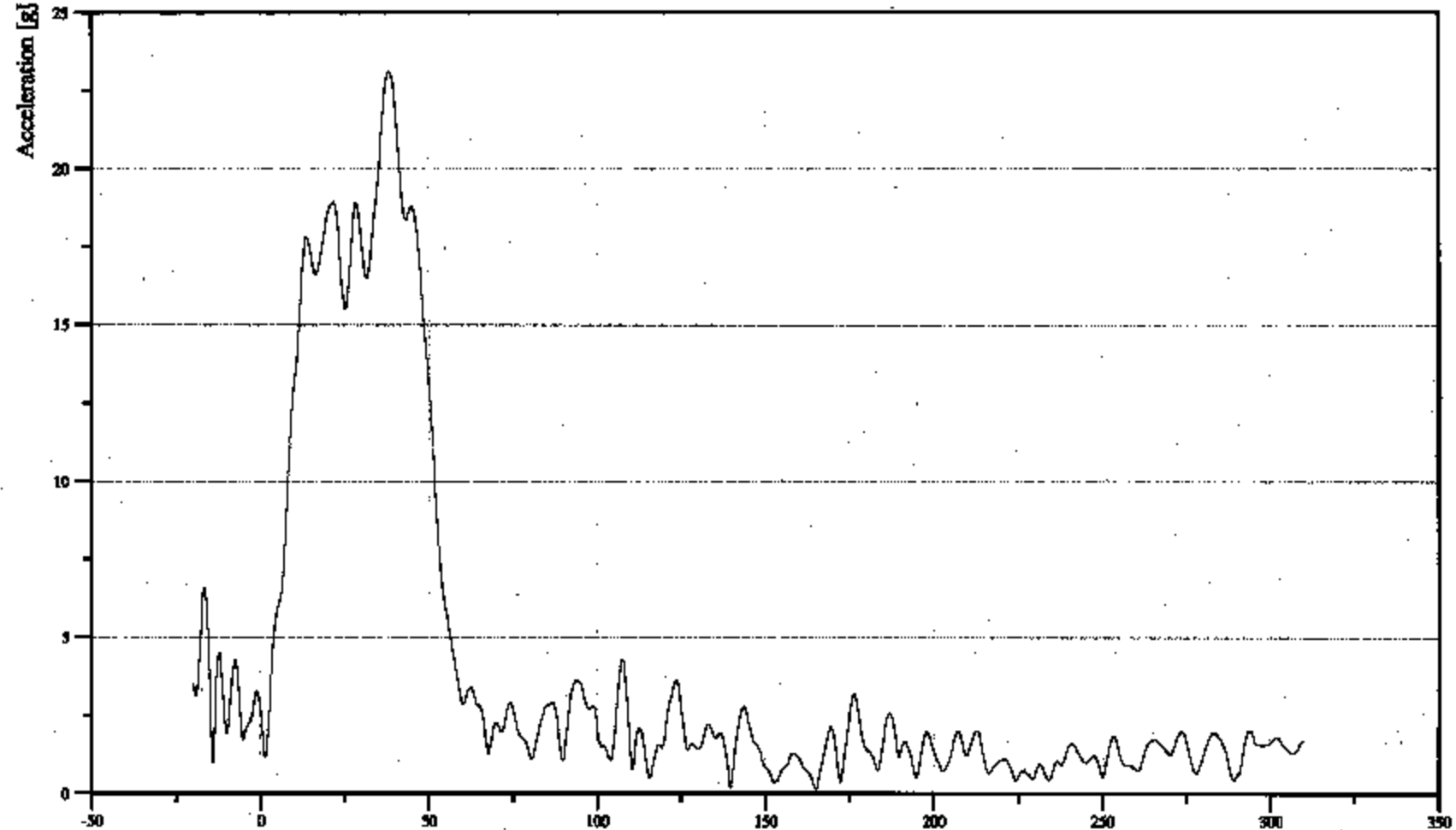
MDB CENTER OF GRAVITY RESULTANT ACCELERATION VS TIME(#1)

Customer: NHTSA

M0VEHCCG0000ACRD

TRC Inc. Test Lab: CTF

Test Number: 051017



Filter: CFC_60

Min. Value
0.12 g at 164.88 ms

Max. Value
23.11 g at 38.24 ms

Time [ms]

B-79

051017



24 kph 90 Degree Side Impact (MDB) into Left Side of 2006 Mitsubishi Eclipse

05/17/2003
Time: 12:15

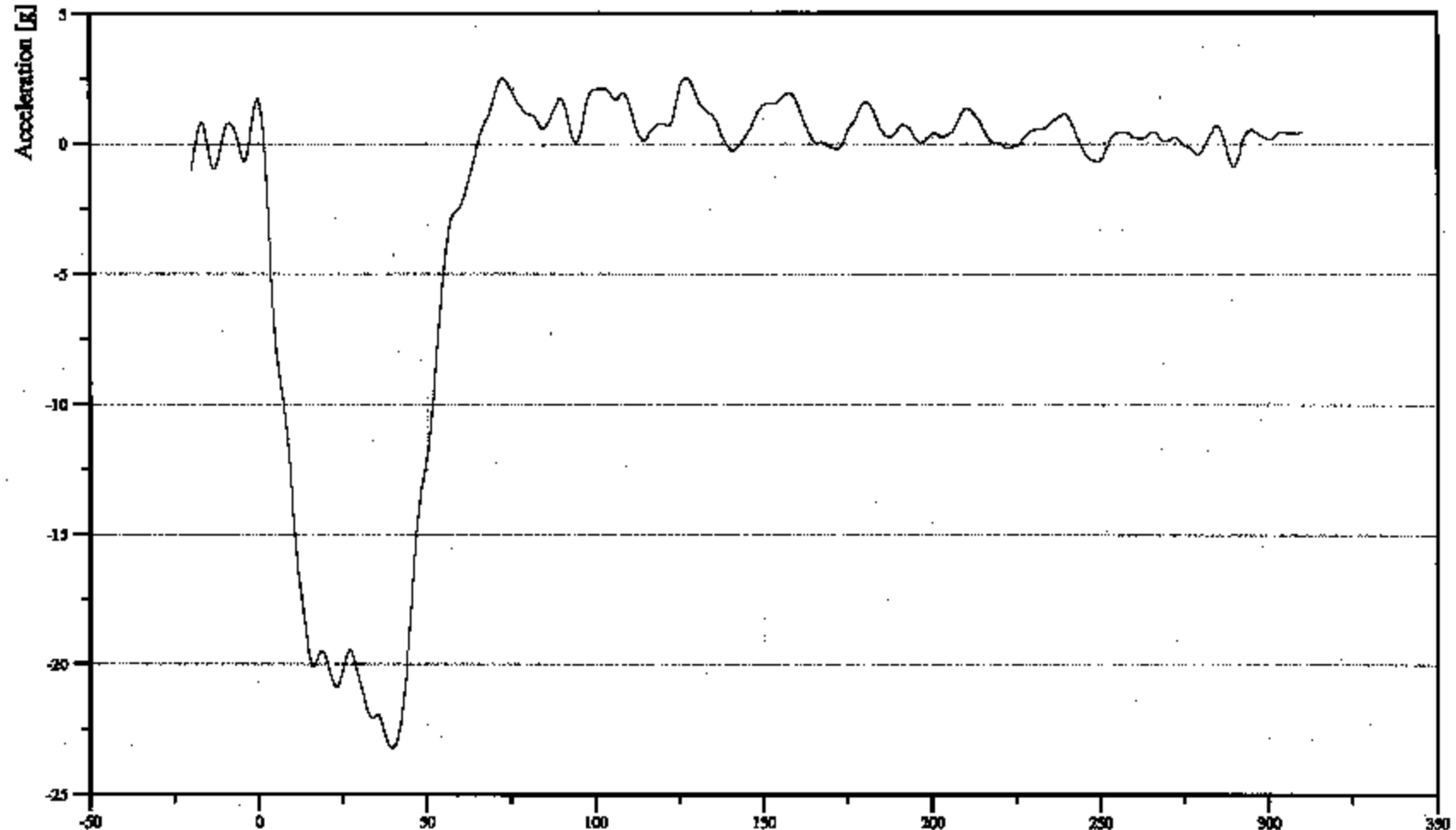
MDB REAR (X) ACCELERATION VS TIME (#2)

Customer: NHTSA

M7FRAM000000ACXD

TRC Inc. Test Lab: CTF

Test Number: 051017



Filter: CFC_60

Min. Value
-23.22 g at 39.52 ms

Max. Value
2.51 g at 127.04 ms

Time [ms]

E-80

051017



24 kph 90 Degree Side Impact (MDB) into Left Side of 2006 Mitsubishi Eclipse

05/17/2005
Time: 12:15

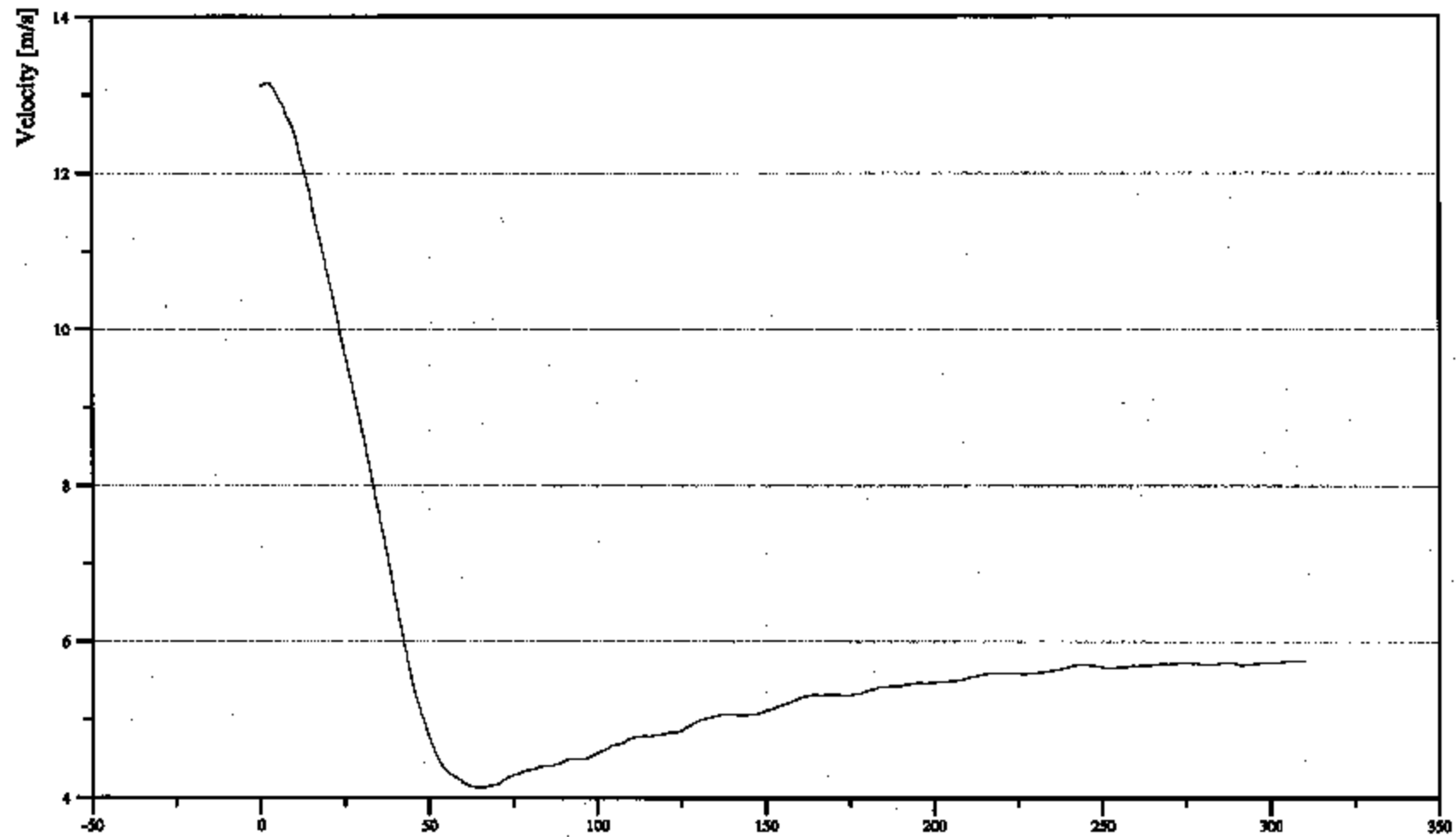
MDB REAR (X) VELOCITY VS TIME (#2)

Customer: NHTSA

M7FRAM000000VEXC

TRC Inc. Test Lab: CTF

Test Number: 051017



Filter: CFC_180

Min. Value
4.13 m/s at 65.36 ms

Max. Value
13.16 m/s at 2.08 ms

Time [ms]

B-81

051017



24 kph 90 Degree Side Impact (MDB) into Left Side of 2006 Mitsubishi Eclipse

05/17/2005
Time: 12:15

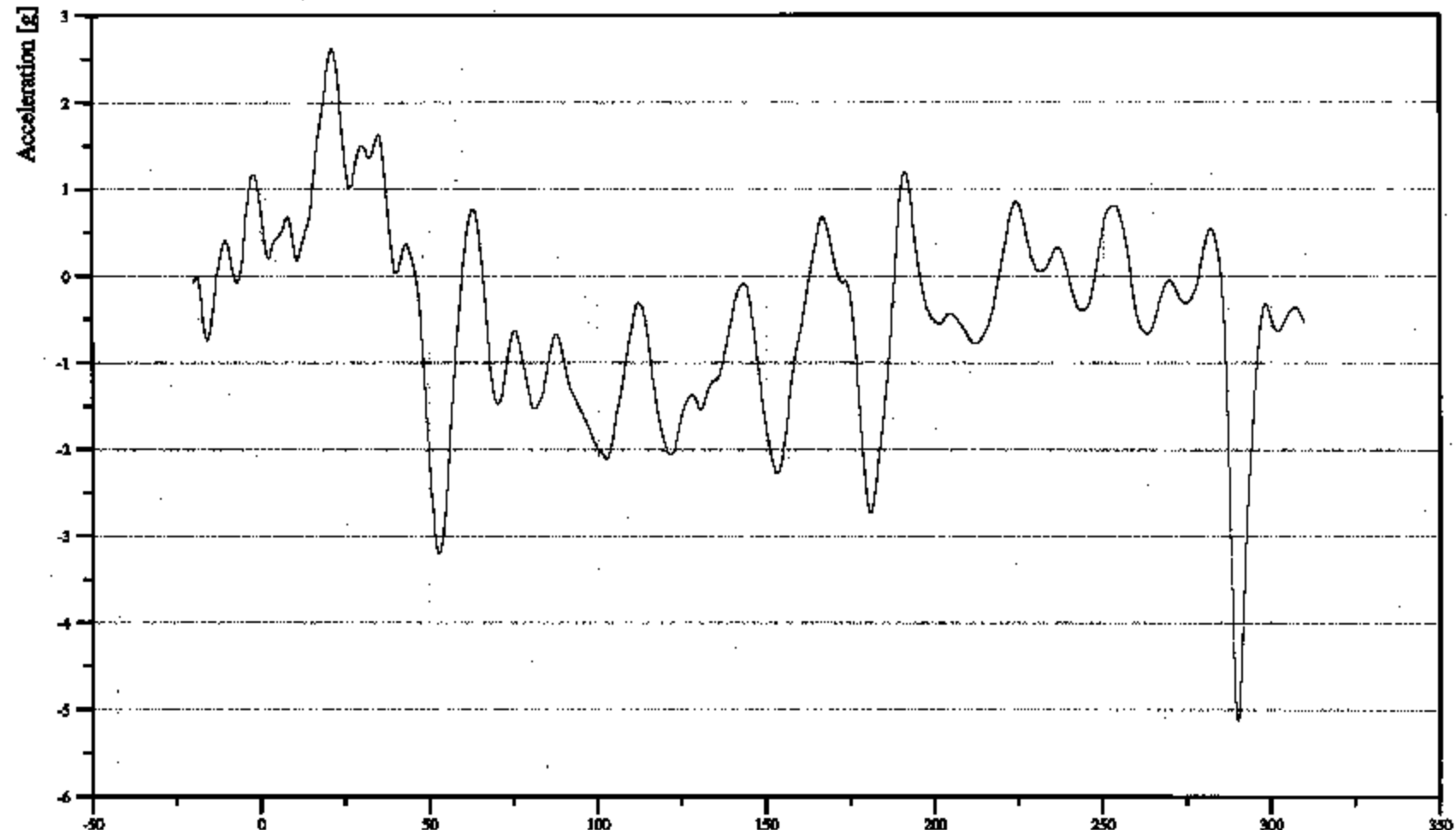
MDB REAR (Y) ACCELERATION VS TIME (#2)

Customer: NHTSA

M7FRAM000000ACYD

TRC Inc. Test Lab: CTF

Test Number: 051017



Filter: CFC_60

Min. Value
-5.14 g at 290.00 ms

Max. Value
2.61 g at 21.12 ms

Time [ms]

B-82

051017



24 kph 90 Degree Side Impact (MDB) into Left Side of 2006 Mitsubishi Eclipse

05/17/2005
Time: 12:15

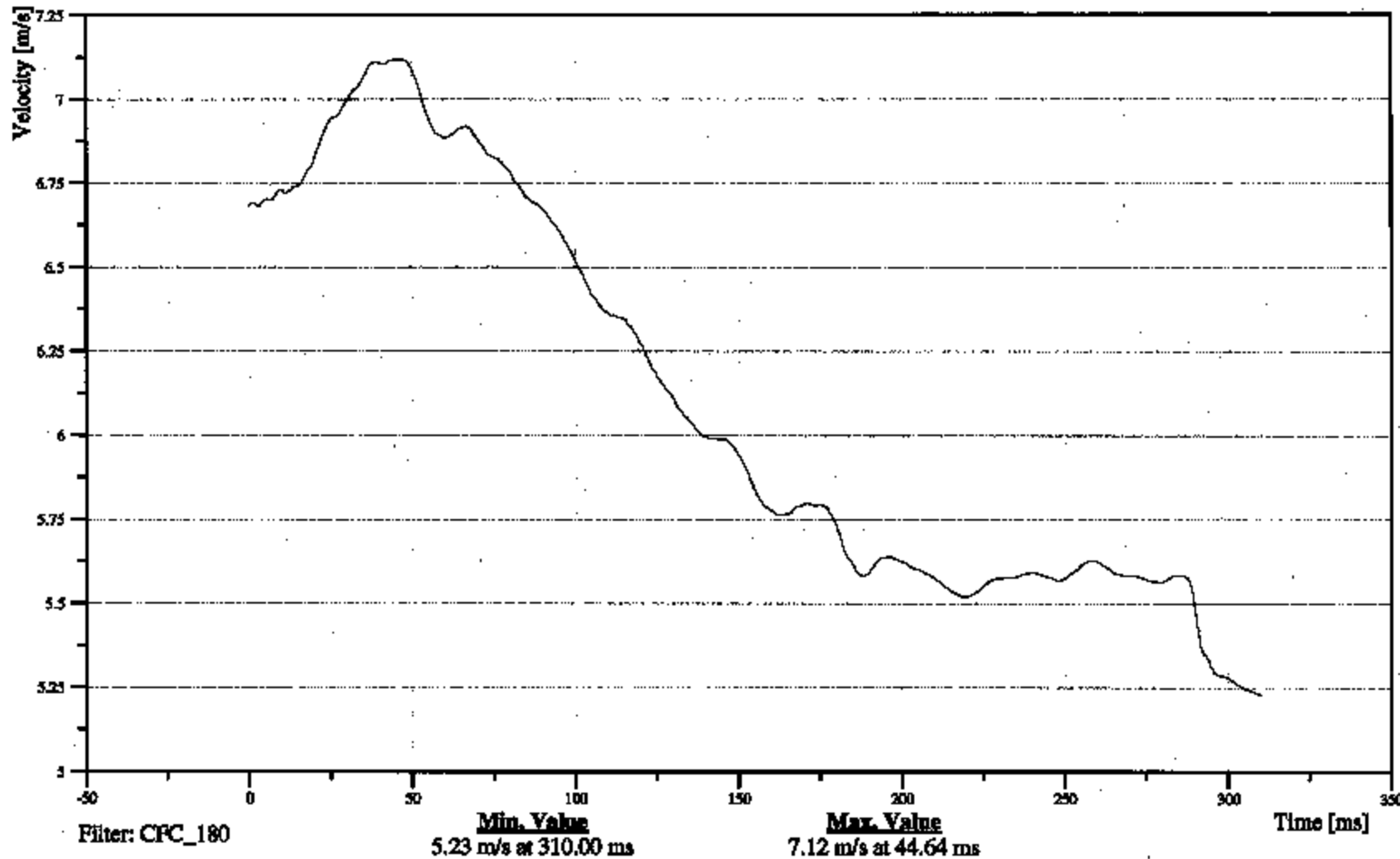
MDB REAR (Y) VELOCITY VS TIME (#2)

Customer: NHTSA

M7FRAM000000VEYC

TRC Inc. Test Lab: CTF

Test Number: 051017



B-83

051017



36/24 kph 90 Degree Side Impact (MDB) into Left Side of 2006 Mitsubishi Eclipse

05/17/2005
Time: 12:15

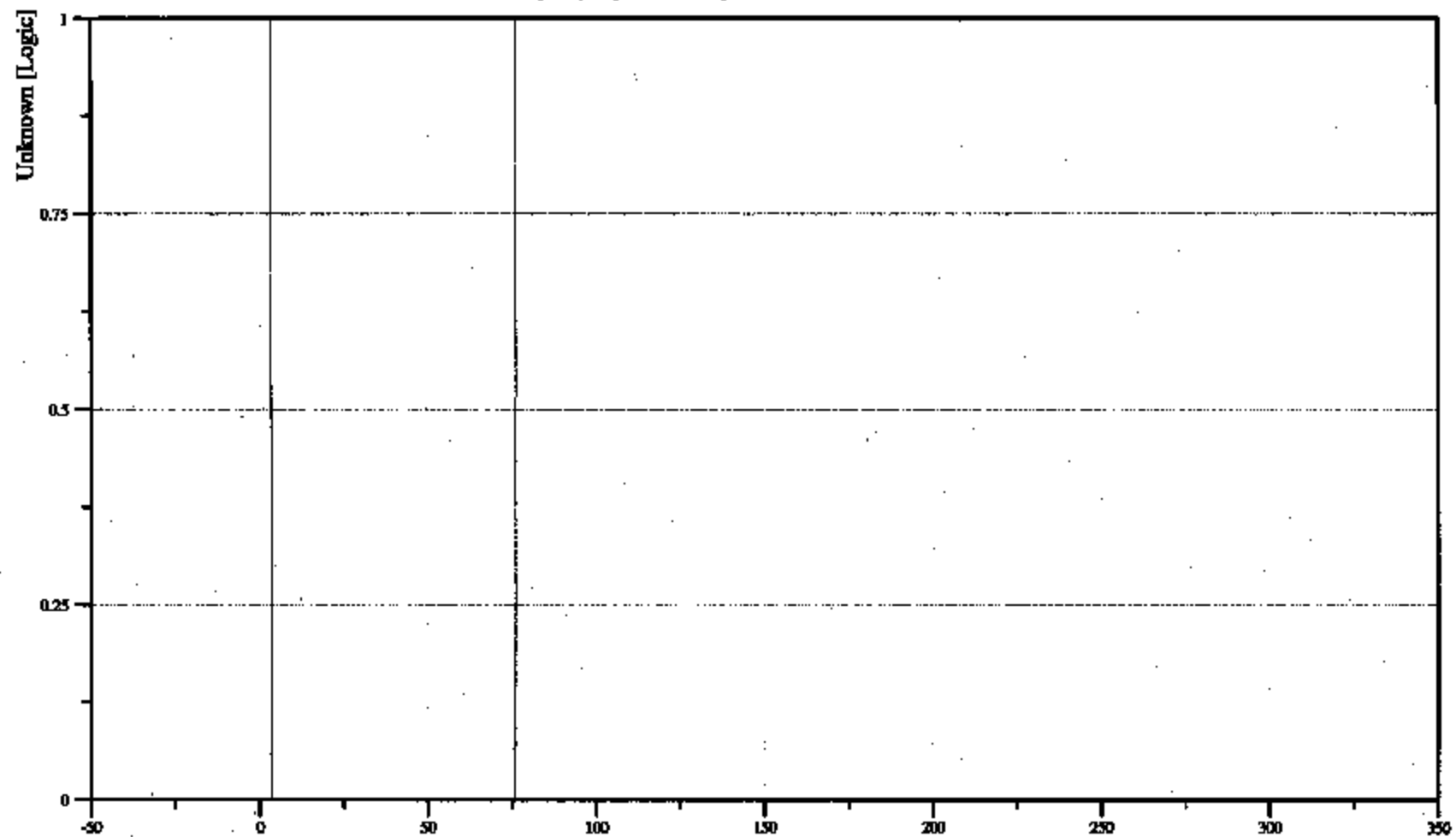
MDB RIGHT CONTACT SWITCH

Customer: NHTSA

M3CONT000000V000

TRC Inc. Test Lab: CTF

Test Number: 051017



Filter: Unfiltered

Min. Value
0.00 Logic at 3.36 ms

Max. Value
1.00 Logic at -20.00 ms

Time [ms]

B-84

051017



24 kph 90 Degree Side Impact (MDB) into Left Side of 2006 Mitsubishi Eclipse

05/17/2005
Time: 12:15

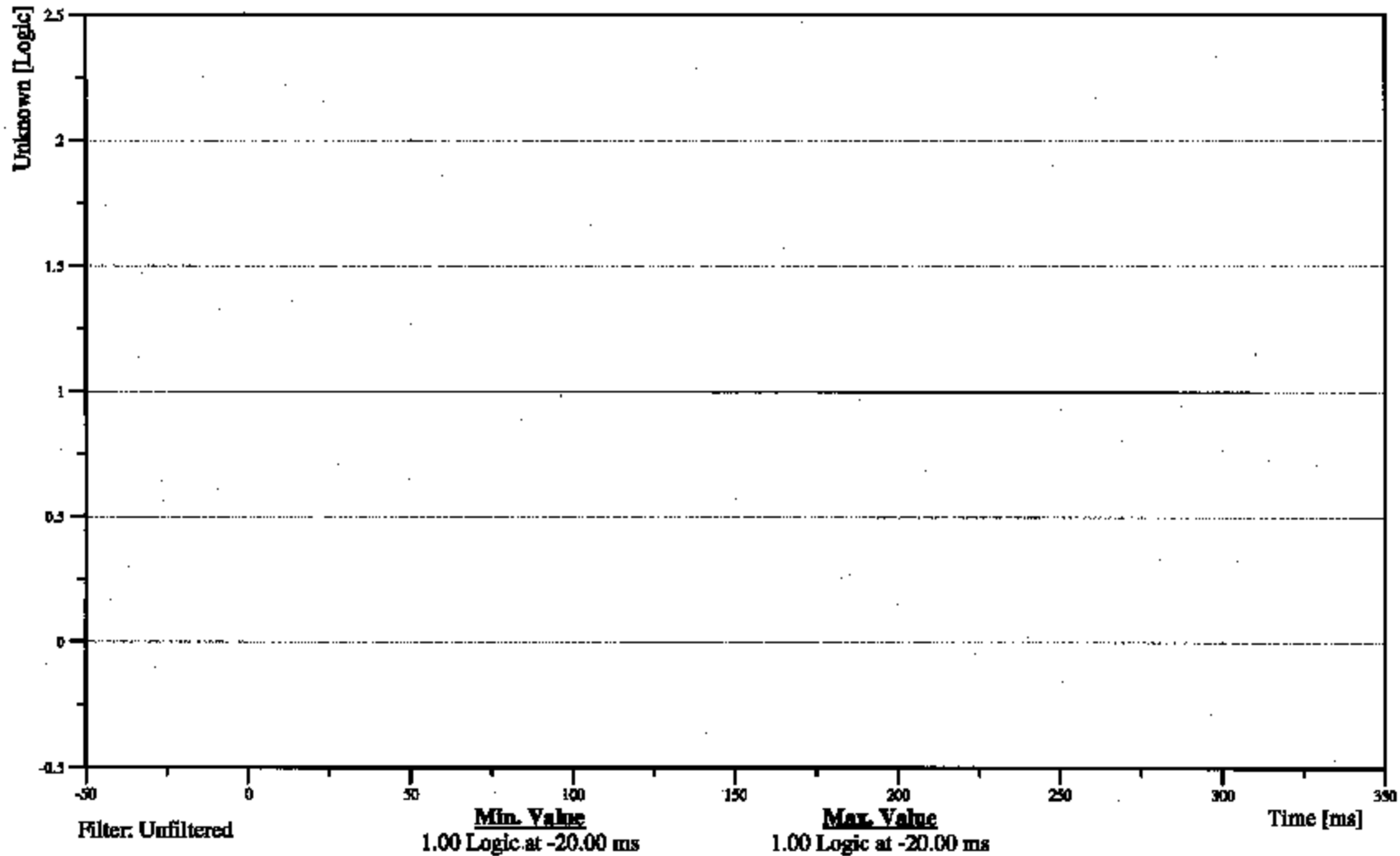
MDB LEFT CONTACT SWITCH

Customer: NHTSA

M1CONT000000V00

TRC Inc. Test Lab: CTF

Test Number: 051017



B-85

051017

Driver Dummy Instrumentation Plots

Acceleration Data - FIR Filtered



24/24 kph 90 Degree Side Impact (MDB) into Left Side of 2006 Mitsubishi Eclipse

05/17/2005
Time: 12:13

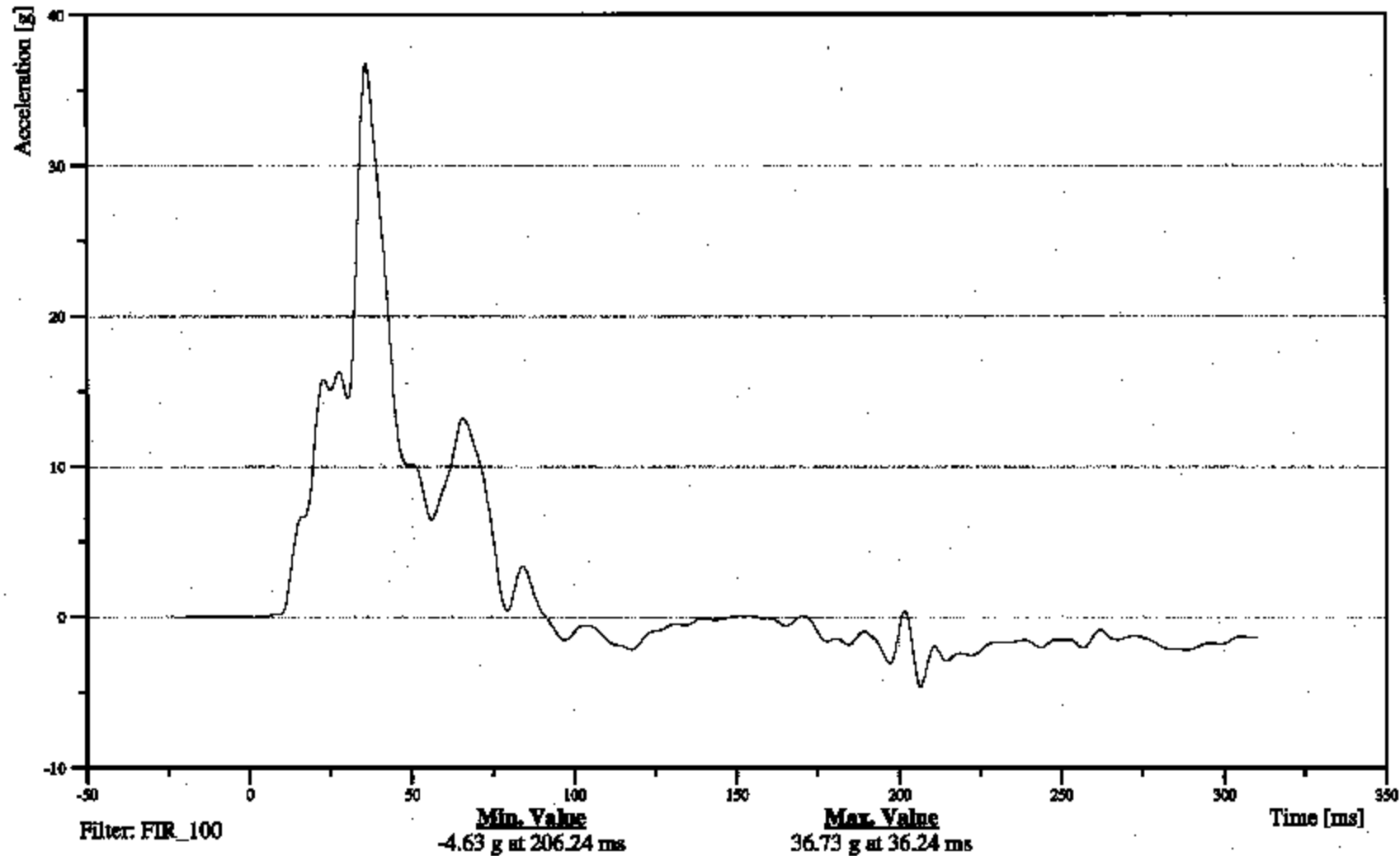
DRIVER UPPER RIB (Y) ACCELERATION VS TIME

Customer: NHISA

11RIBSLU00SIACY1

TRC Inc. Test Lab: CTF

Test Number: 051017



B-87

051017



24 kph 90 Degree Side Impact (MDB) into Left Side of 2006 Mitsubishi Eclipse

05/17/2005

DRIVER LOWER RIB (Y) ACCELERATION VS TIME

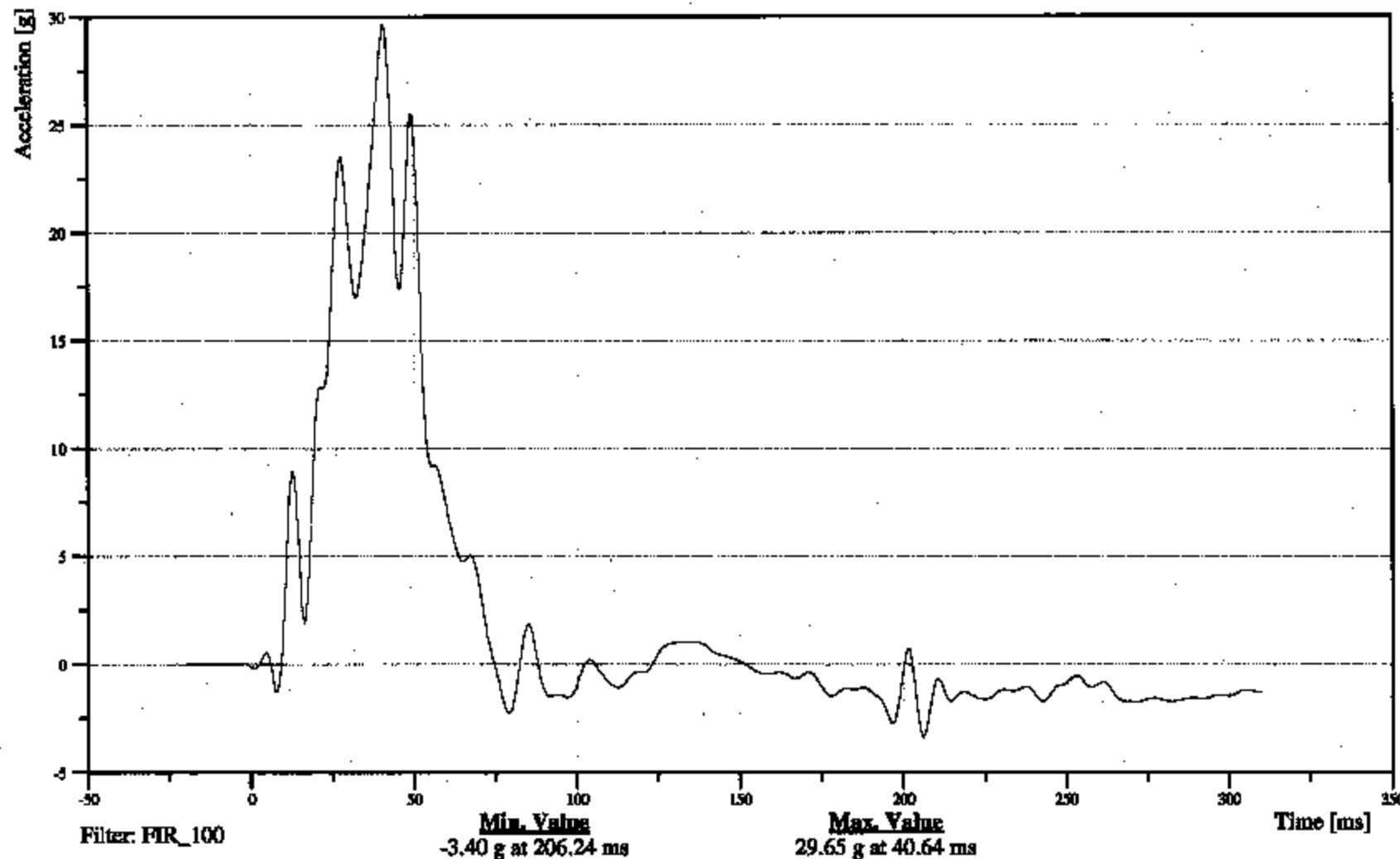
Time: 12:13

Customer: NHTSA

11RIBSLLO0SIACY1

TRC Inc. Test Lab: CTF

Test Number: 051017



B-88

051017



24 kph 90 Degree Side Impact (MDB) into Left Side of 2006 Mitsubishi Eclipse

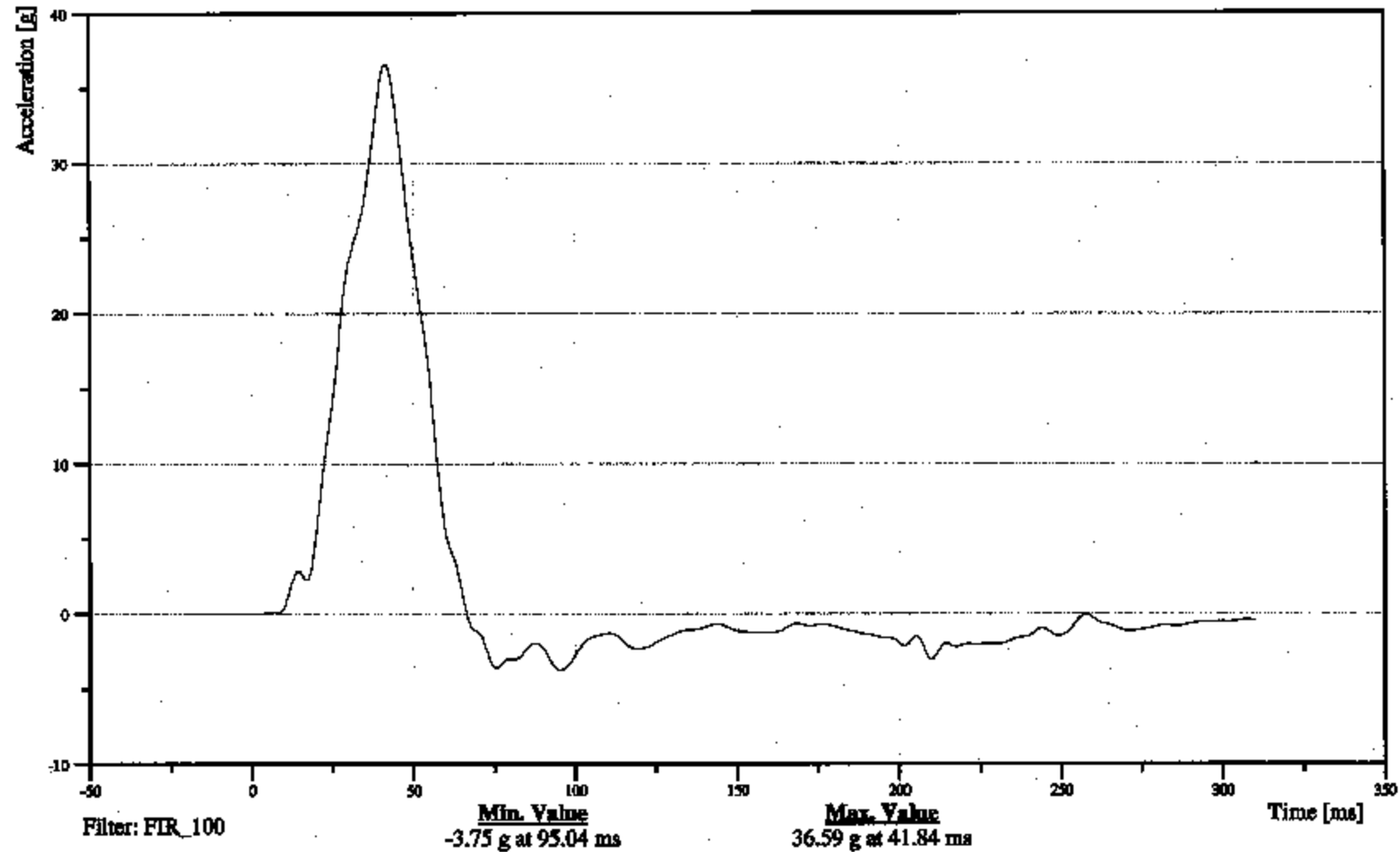
05/17/2005
Time: 12:15

DRIVER LOWER SPINE (Y) ACCELERATION VS TIME

Customer: NHTSA

11SPIN1200SLACY1

TRC Inc. Test Lab: CTF
Test Number: 051017



B-89

051017



31/24 kph 90 Degree Side Impact (MDB) into Left Side of 2006 Mitsubishi Eclipse

05/17/2005

Time: 12:15

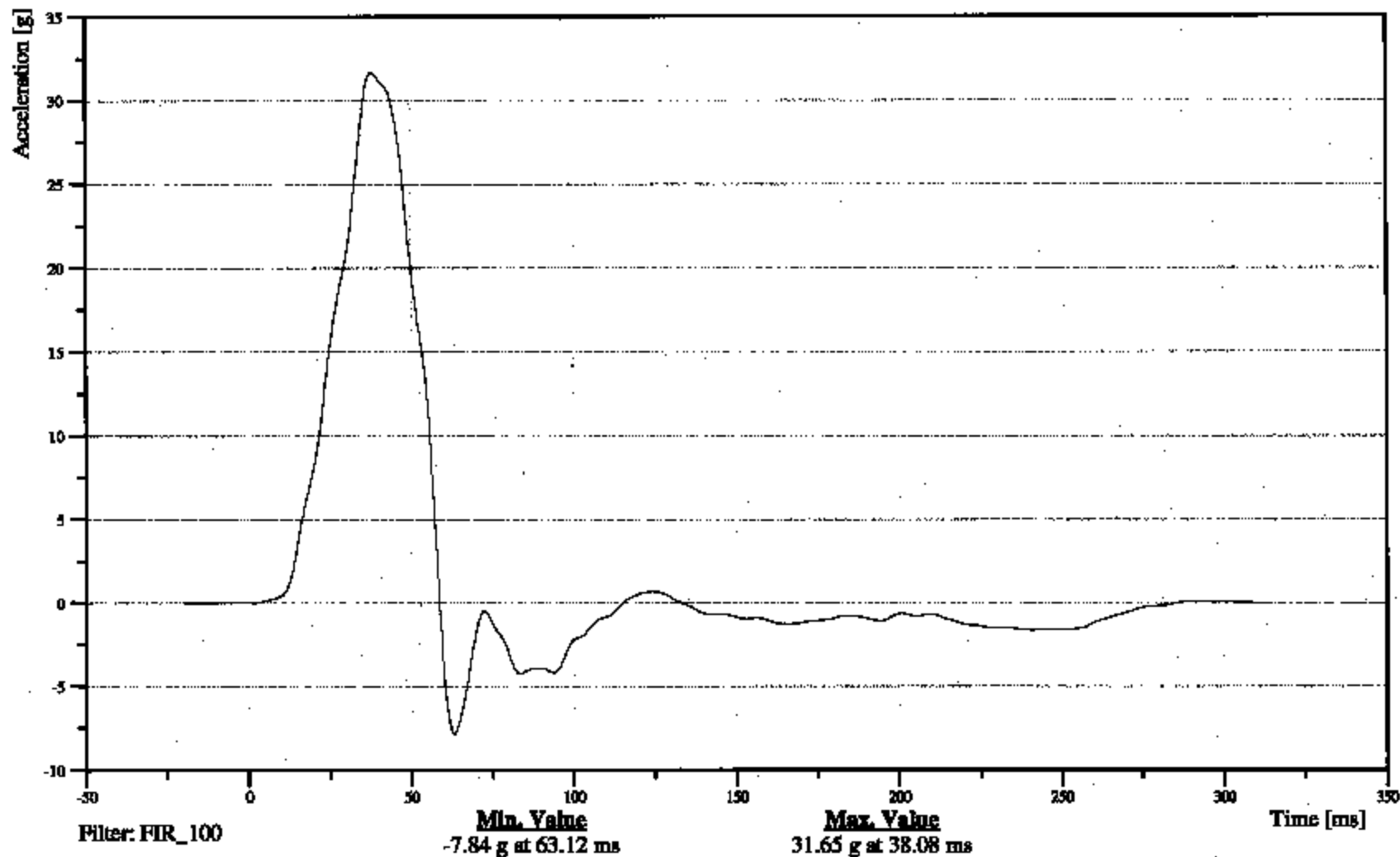
DRIVER PELVIC (Y) ACCELERATION VS TIME

Customer: NHTSA

11PELVCG00SIACY1

TRC Inc. Test Lab: CTF

Test Number: 051017



B-90

051017

Driver Dummy Instrumentation Plots
Acceleration Data - FIR Filtered - Redundant



24 kph 90 Degree Side Impact (MDB) into Left Side of 2006 Mitsubishi Eclipse

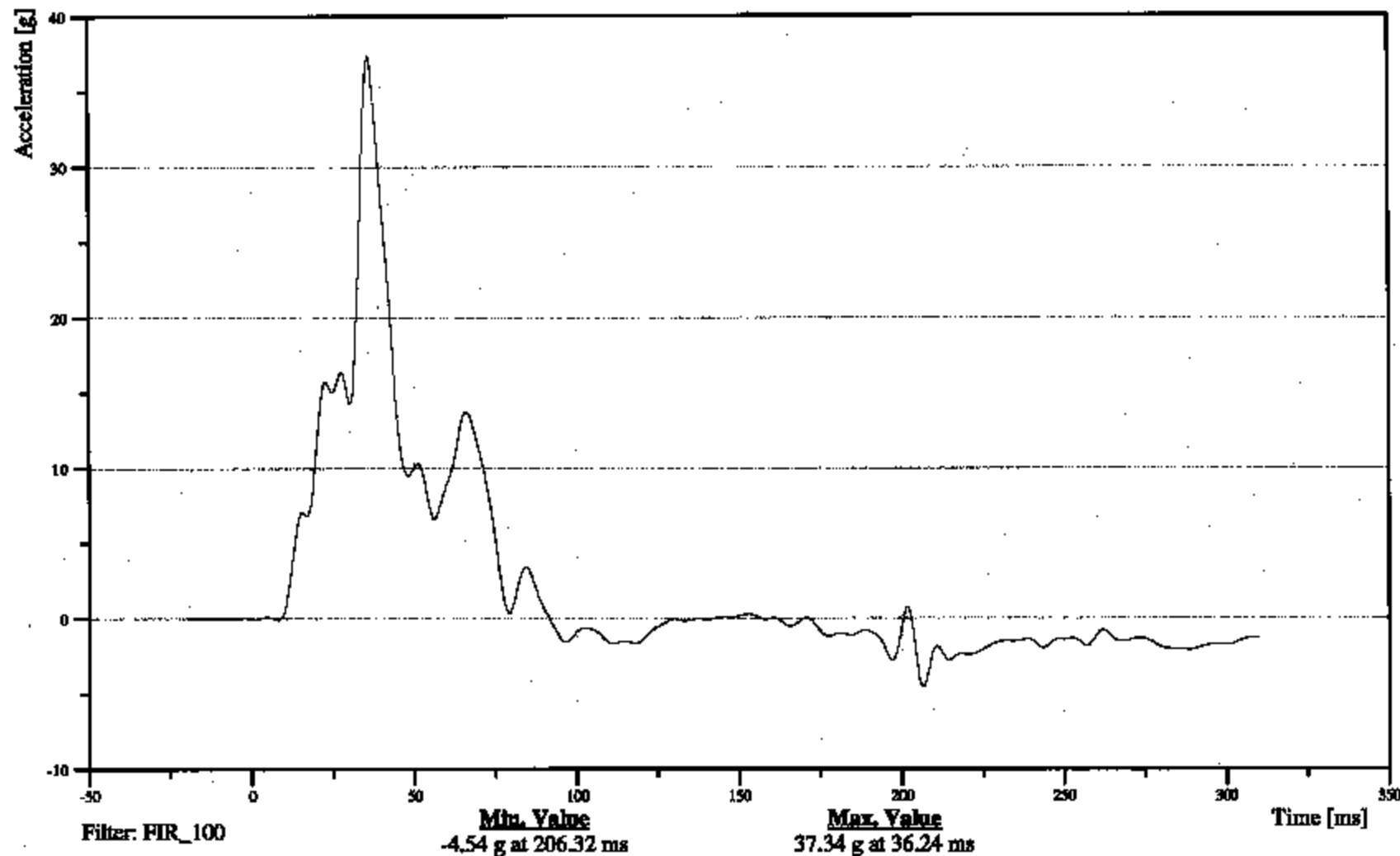
05/17/2005
Time: 12:15

DRIVER UPPER RIB (Y) ACCELERATION VS TIME REDUNDANT

Customer: NHTSA

11RIBSLURDSIACY1

TRC Inc. Test Lab: CTF
Test Number: 051017



B-92

051017



24 kph 90 Degree Side Impact (MDB) into Left Side of 2006 Mitsubishi Eclipse

05/17/2005
Time: 12:15

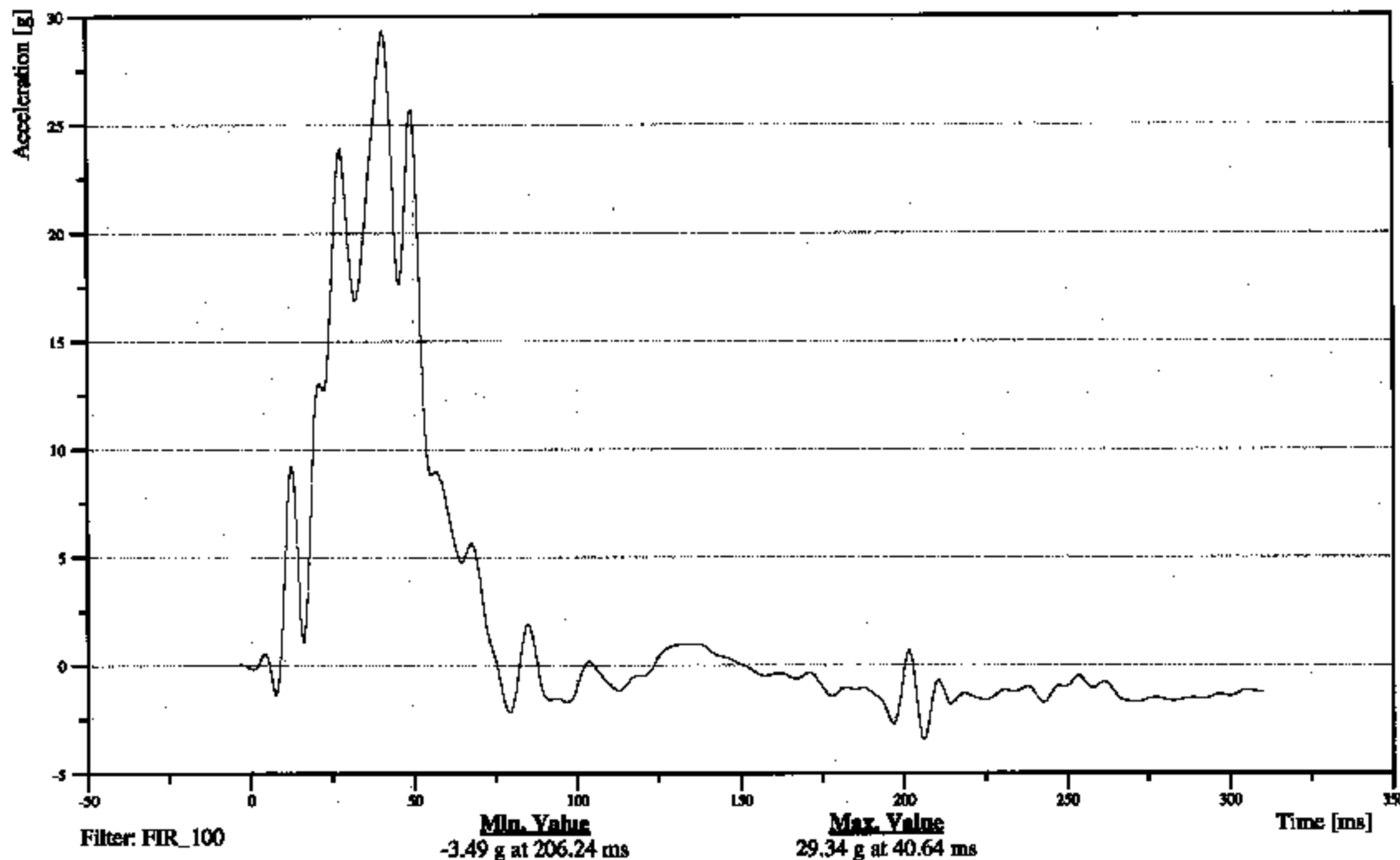
DRIVER LOWER RIB (Y) ACCELERATION VS TIME REDUNDANT

Customer: NHTSA

11RIBSLLRDSIACY1

TRC Inc. Test Lab: CTF

Test Number: 051017



B-93

051017



36/24 kph 90 Degree Side Impact (MDB) into Left Side of 2006 Mitsubishi Eclipse

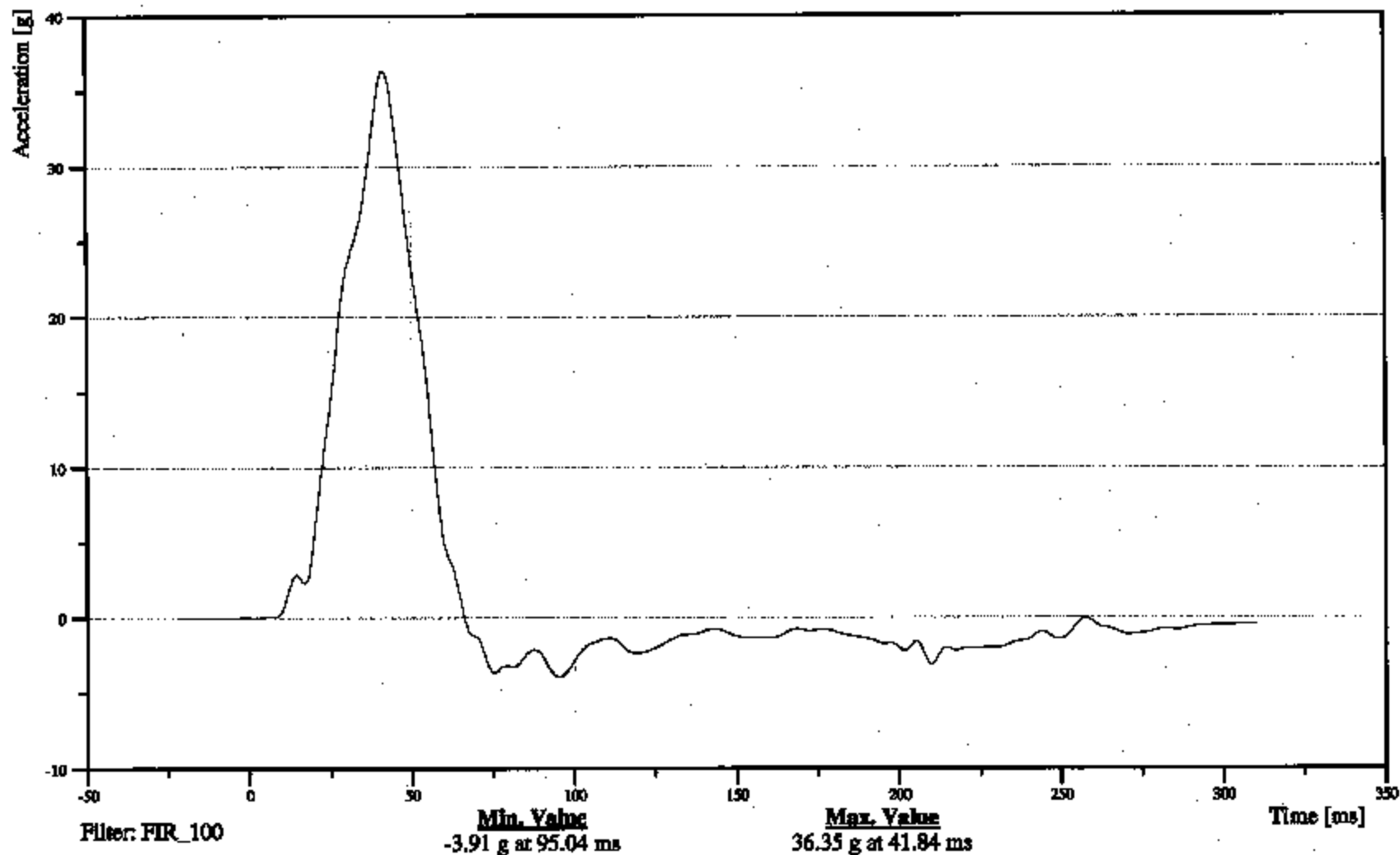
05/17/2005
Time: 12:15

DRIVER LOWER SPINE (Y) ACCELERATION VS TIME REDUNDANT

Customer: NHTSA

11SPIN12RDSIACY1

TRC Inc. Test Lab: CTF
Test Number: 051017



B-94

051017

Appendix C

SID Configuration and Performance Verification Data

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

Date: 10/11/05-10/26/05 TRC Inc. Test Number: S/N027
 Laboratory Technician: V. Olivieri, V. Watters

Test Parameter	Specification	SID 027	
		Pre-Test	Post-Test
SH - Seated Height (mm)	889-909	895	895
RH - Rib Height (mm)	502-520	510	511
HP - Hip Pivot Height (mm)	99 ref	99.1	99.1
KH - Knee Pivot from Back Line (mm)	511-526	522	523
KV - Knee Pivot to Floor (mm)	490-505	497	495
HW - Hip Width (mm)	356-391	367	369
Thorax Impacts			
Temperature (°C)	18.9-25.5	21.4	21.3
Relative Humidity (%)	10-70	54	29
Probe Speed (m/s)	4.27-4.33	4.32	4.32
Upper Rib (g's)	37-46	38.2	40.1
Lower Rib (g's)	37-46	37.6	37.7
Lower Spine (g's)	15-22	18.2	17.4
Pelvis Impacts			
Temperature (°C)	18.9-25.5	21.0	21.4
Relative Humidity (%)	10-70	52	28
Probe Speed (m/s)	4.27-4.33	4.31	4.31
Pelvis (g's)	40-60	46.1	44.4

Calibration Test Results

Pre-Test

SID: 027

Configured for Left Side Impact

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

Transportation Research Center Inc.
572F SID Dummy
External Dimensions
Serial No.027 Calibration No.01

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	510 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	497 mm	Yes
Hip Width	HW	355.6 - 391.2 mm	367 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

Vincent D. Strain

Approved

V.F. Walther

TRE

Transportation Research Center Inc.

572F Left Thorax Test

SID Serial No. 027 Calibration No. 01 - 02

Test Date 10/13/2005

Test Parameter	Specification	Test Results	Pass
Temperature	18.9 - 25.5 C	21.4 C	Yes
Relative Humidity	10 - 70 %	54 %	Yes
Pendulum Velocity	4.27 - 4.33 m/sec	4.32 m/sec	Yes
Upper Rib Bar Peak Acceleration	37 - 46 g	38.2 g	Yes
Lower Rib Bar Peak Acceleration	37 - 46 g	37.6 g	Yes
Lower Thoracic Spine (T12) Peak Acceleration	15 - 22 g	18.2 g	Yes

Test meets specifications.

Comments:

Technician

Vincent Shiras

Approved

V. E. Walker

10.13.2005 13:22:47 604

TRE

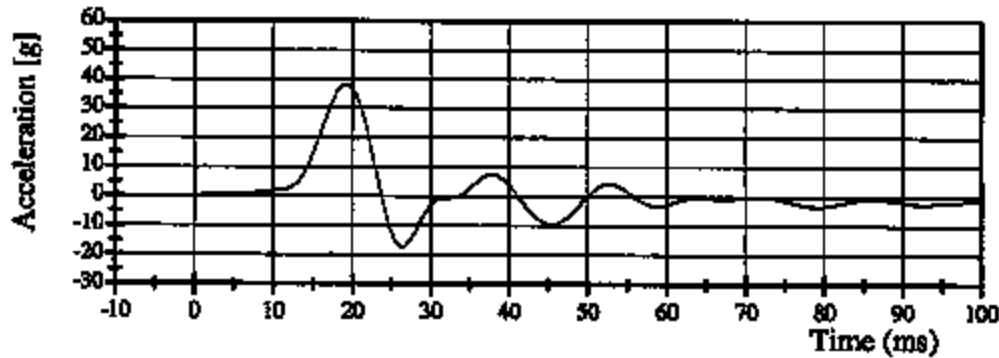
Transportation Research Center Inc.

572F Left Thorax Test

SID Serial No. 027 Calibration No. 01 - 02

Test Date 10/13/2005

Upper Rib Bar Acceleration

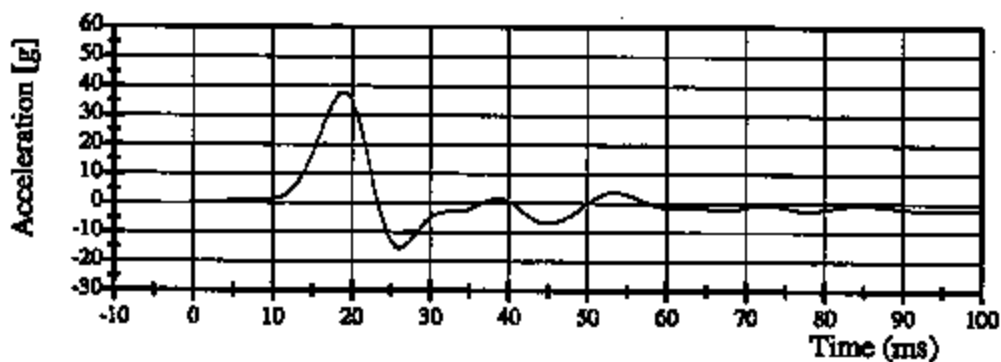


Filter Class: FIR 100

Max: 38.2 g at 19.3 ms

Min: -17.3 g at 26.2 ms

Lower Rib Bar Acceleration

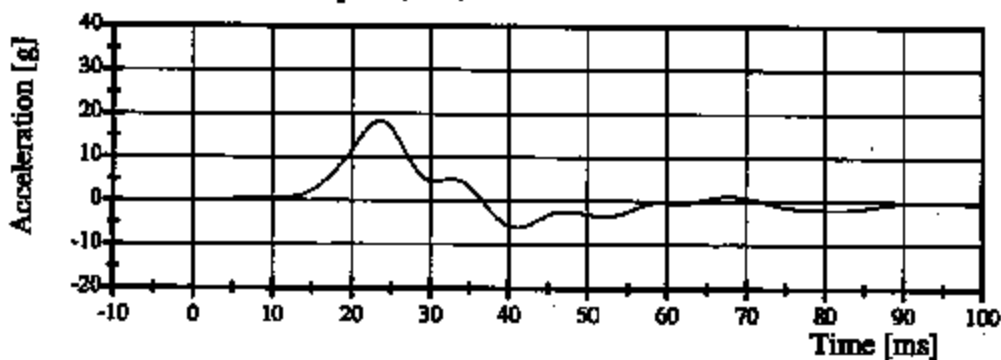


Filter Class: FIR 100

Max: 37.6 g at 18.6 ms

Min: -15.5 g at 26.2 ms

Lower Thoracic Spine (T12) Acceleration



Filter Class: FIR 100

Max: 18.2 g at 23.6 ms

Min: -6.1 g at 41.1 ms

10.13.2005 13:22:47 604



Transportation Research Center Inc.

572F Damper Test

SID Serial No. 027 Calibration No. 01 - A2

Test Date 10/11/2005

Test Parameter	Specification	Test Results	Pass
Temperature	18.9 - 25.5 C	21.4 C	Yes
Relative Humidity	10 - 70 %	56 %	Yes
Pendulum Velocity		3.05 m/sec	
Maximum Force at Test Velocity	843 - 1130 N	950 N	Yes
Maximum Displacement at Test Velocity	30.2 - 35.1 mm	31.6 mm	Yes

Test meets specifications.

Comments:

Damper Setting : 6.0

Technician

Vicent Alena

Approved

V. F. Walker

10.11.2005 15:05:42 2174

TTC

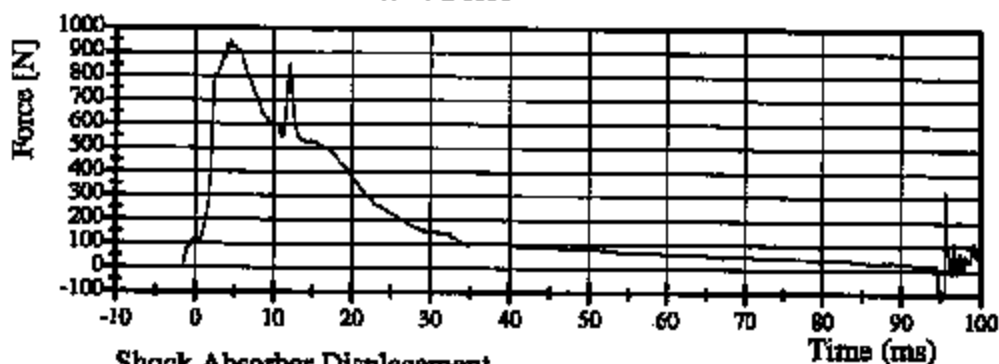
Transportation Research Center Inc.

572F Damper Test

SID Serial No. 027 Calibration No. 01 - A2

Test Date 10/11/2005

Shock Absorber Resistive Force

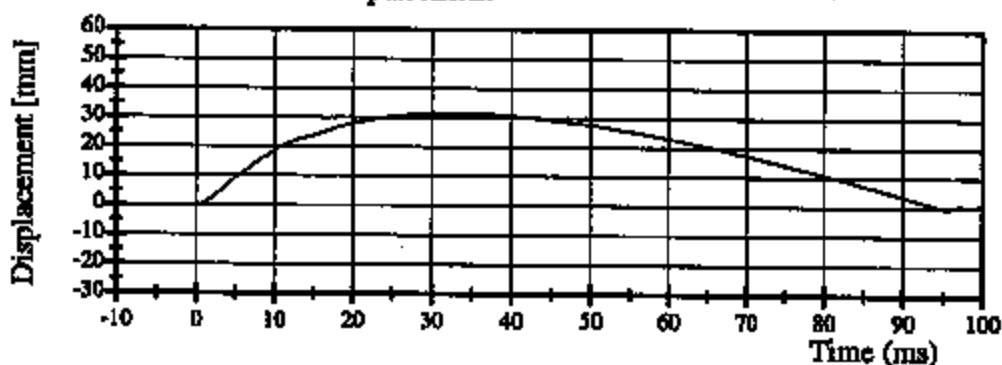


Filter Class: 1000

Max: 950 N at 4.6 ms

Min: -1880 N at 95.1 ms

Shock Absorber Displacement



Filter Class: 1000

Max: 31.6 mm at 31.9 ms

Min: -0.5 mm at 95.6 ms

10.11.2005 15:05:43 2174



Transportation Research Center Inc.

572F Damper Test

SID Serial No. 027 Calibration No. 01 - B1

Test Date 10/11/2005

Test Parameter	Specification	Test Results	Pass
Temperature	18.9 - 25.5 C	21.2 C	Yes
Relative Humidity	10 - 70 %	54 %	Yes
Pendulum Velocity		4.27 m/sec	
Maximum Force at Test Velocity	1736 - 2099 N	1807 N	Yes
Maximum Displacement at Test Velocity	31.7 - 37.2 mm	35.3 mm	Yes

Test meets specifications.

Comments:

Damper Setting : 6.0

Technician

Vicent Danni

Approved

V.F. Neth

10.11.2005 15:12:05 1894

TRE

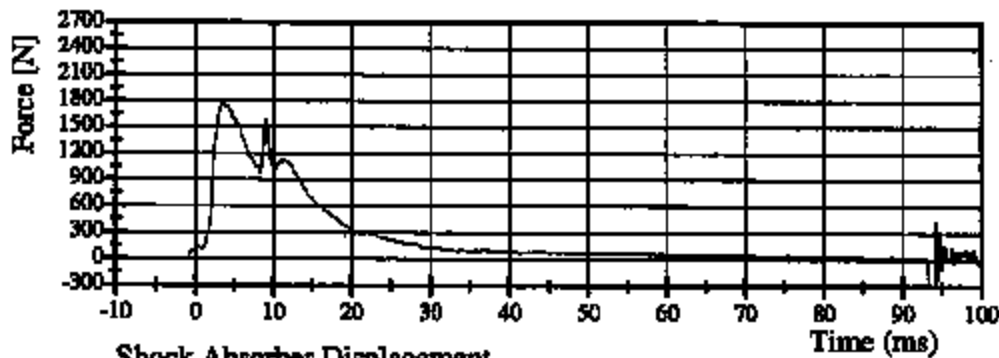
Transportation Research Center Inc.

572F Damper Test

SID Serial No. 027 Calibration No. 01 - B1

Test Date 10/11/2005

Shock Absorber Resistive Force

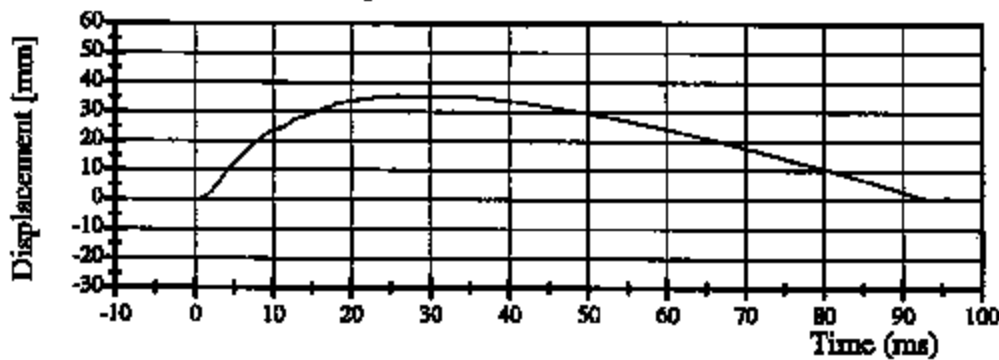


Filter Class: 1000

Max: 1807 N at 3.6 ms

Min: -1701 N at 93.9 ms

Shock Absorber Displacement



Filter Class: 1000

Max: 35.3 mm at 29.7 ms

Min: -0.2 mm at 94.2 ms

10.11.2005 15:12:06 1894



Transportation Research Center Inc.

572F Damper Test

SID Serial No. 027 Calibration No. 01 - C2

Test Date 10/11/2005

Test Parameter	Specification	Test Results	Pass
Temperature	18.9 - 25.5 C	21.3 C	Yes
Relative Humidity	10 - 70 %	56 %	Yes
Pendulum Velocity		6.05 m/sec	
Maximum Force at Test Velocity	3681 - 4365 N	3791 N	Yes
Maximum Displacement at Test Velocity	33.3 - 39.5 mm	38.1 mm	Yes

Test meets specifications.

Comments:

Damper Setting : 6.0

Technician

Vicente Alvarez

Approved

V. T. Wall

10.11.2005 15:32:13 1695

TRE

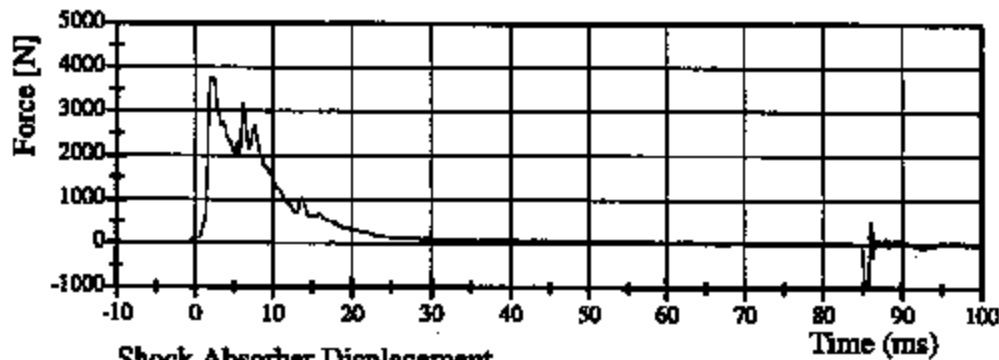
Transportation Research Center Inc.

572F Damper Test

SID Serial No. 027 Calibration No. 01 - C2

Test Date 10/11/2005

Shock Absorber Resistive Force

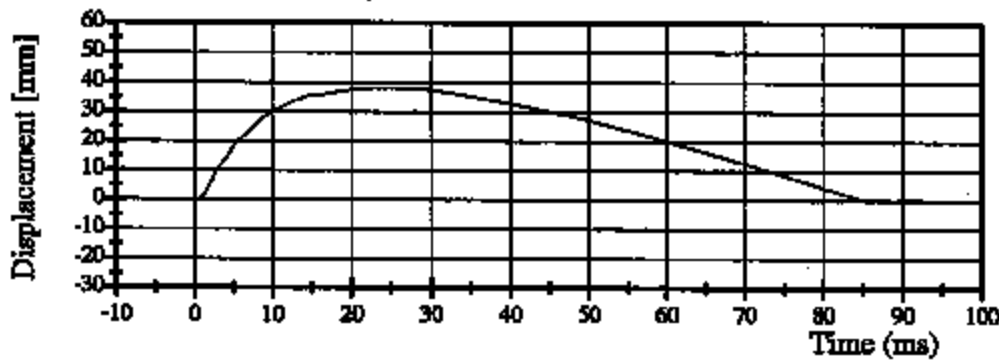


Filter Class: 1000

Max: 3791 N at 2.0 ms

Min: -1789 N at 85.5 ms

Shock Absorber Displacement



Filter Class: 1000

Max: 38.1 mm at 24.2 ms

Min: -0.3 mm at 85.8 ms

10.11.2005 15:32:13 1695



TRANSPORTATION RESEARCH CENTER INC.

LUMBAR FLEXION TEST

SID PART 572B

CAL DATE: 12-Oct-05

TRC, INC.

TEST NO: 027C19TF1

572B SN 027 TORSO FLEX CAL 01

TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE	18.9 - 25.6° C	21.2 °C
RELATIVE HUMIDITY	10 - 70 %	58 %
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	177.9 N
FORCE AT 40 DEG OF FLEXION	205 - 258 N	253.5 N
NET RETURN ANGLE AFTER 3 MINUTES	< 12 °	3.8 °

TEST MEETS SPECIFICATIONS

TECHNICIAN



Transportation Research Center Inc.

572B Abdomen Test

SID Serial No. 027 Calibration No. 01 - 09

Test Date 10/12/2005

Test Parameter	Specification	Test Results	Pass
Temperature	18.9 - 25.5 °C	21.2 °C	Yes
Relative Humidity	10 - 70 %	55 %	Yes
Displacement Rate	6.35 - 8.89 mm/s	7.6 - 8.0 mm/s	Yes
Data Within Required Corridor	Yes	Yes	Yes

Test meets specifications.

Comments:

Technician

Vince Stone

Approved

V. J. Nathan

10.12.2005 14:33:14 1614

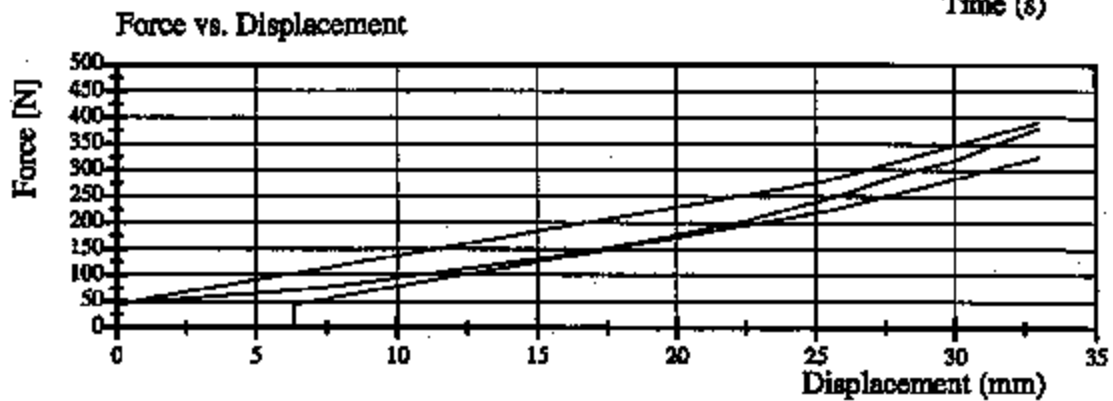
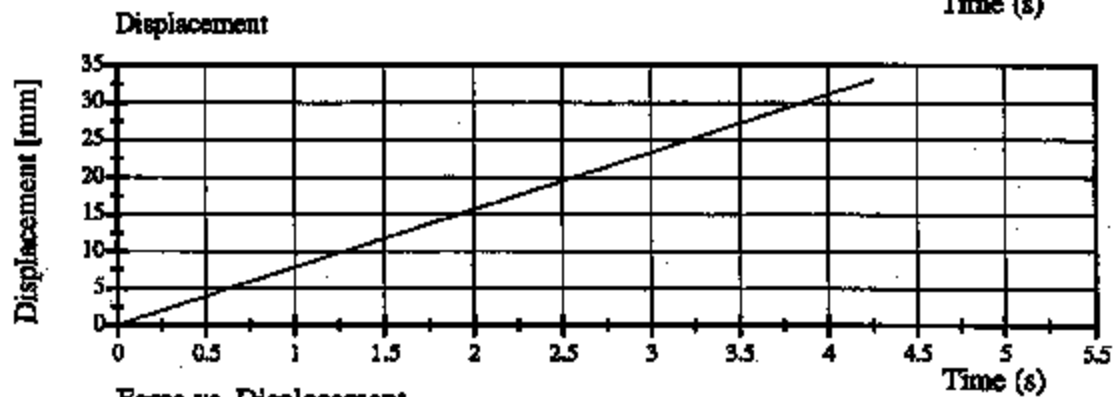
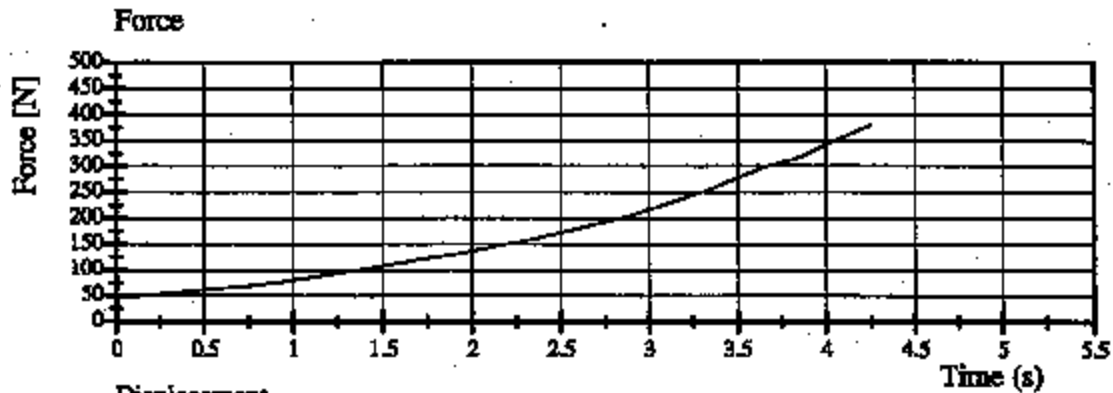
TRE

Transportation Research Center Inc.

572B Abdomen Test

SID Serial No. 027 Calibration No. 01 - 09

Test Date 10/12/2005



10.12.2005 14:33:14 1614



Transportation Research Center Inc.

572F Left Pelvis Test

SID Serial No. 027 Calibration No. 01 - 01

Test Date 10/13/2005

Test Parameter	Specification	Test Results	Pass
Temperature	18.9 - 25.5 C	21.0 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	46.1 g	Yes
Time Above 20 g	3 - 7 ms	6.00 ms	Yes
Unimodal requirement for pelvis acceleration	Yes	Yes	Yes

Comments:

Technician

Vincent Diwan

Approved

V. F. Waltham

10.13.2005 12:37:06 615

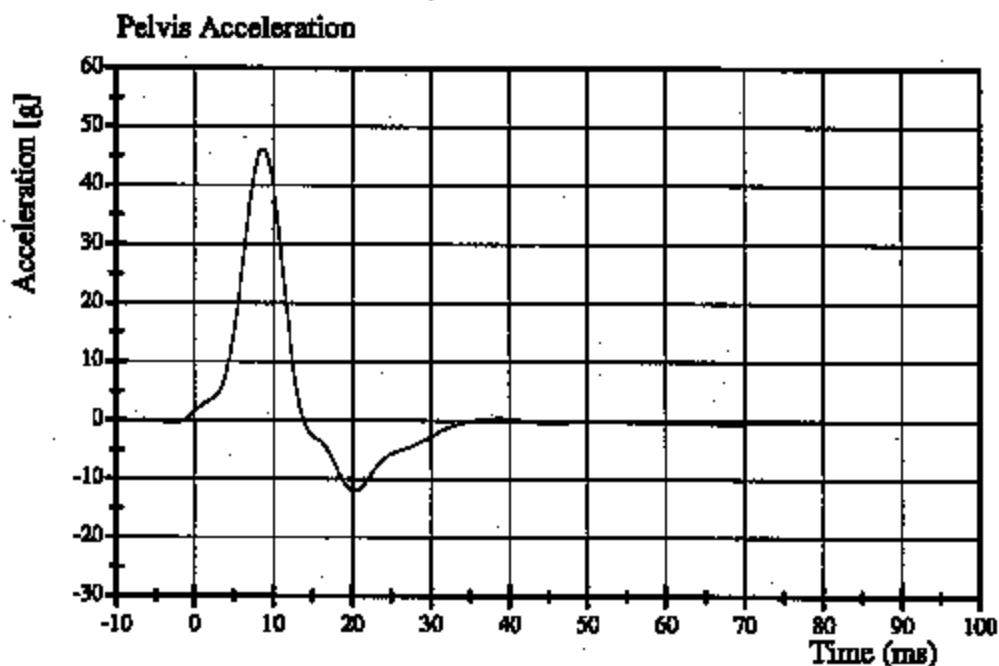
TRE

Transportation Research Center Inc.

572F Left Pelvis Test

SID Serial No. 027 Calibration No. 01 - 01

Test Date 10/13/2005



Filter Class: FDR 100

Max: 46.1 g at 9.0 ms

Min: -12.1 g at 20.2 ms

10.13.2005 12:37:06 615



Calibration Test Results

Post-Test

SID: 027

Configured for Left Side Impact

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

Transportation Research Center Inc.
572F SID Dummy
External Dimensions
Serial No.027 Calibration No.02

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	511 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	369 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	176 mm	Yes
Difference Between Top & Bottom Rib Width from CL		≤ 2.5 mm	1.0 mm	Yes

Technician

Narot Dhilli

Approved

Paul L. [Signature]

TRE

Transportation Research Center Inc.

572F Left Thorax Test

SID Serial No. 027 Calibration No. 02 - 2

Test Date 10/26/2005

Test Parameter	Specification	Test Results	Pass
Temperature	18.9 - 25.5 C	21.3 C	Yes
Relative Humidity	10 - 70 %	29 %	Yes
Pendulum Velocity	4.27 - 4.33 m/sec	4.32 m/sec	Yes
Upper Rib Bar Peak Acceleration	37 - 46 g	40.1 g	Yes
Lower Rib Bar Peak Acceleration	37 - 46 g	37.7 g	Yes
Lower Thoracic Spine (T12) Peak Acceleration	15 - 22 g	17.4 g	Yes

Test meets specifications.

Comments:

Technician

Vic D...

Approved

Paul ...

10.26.2005 10:08:38 599



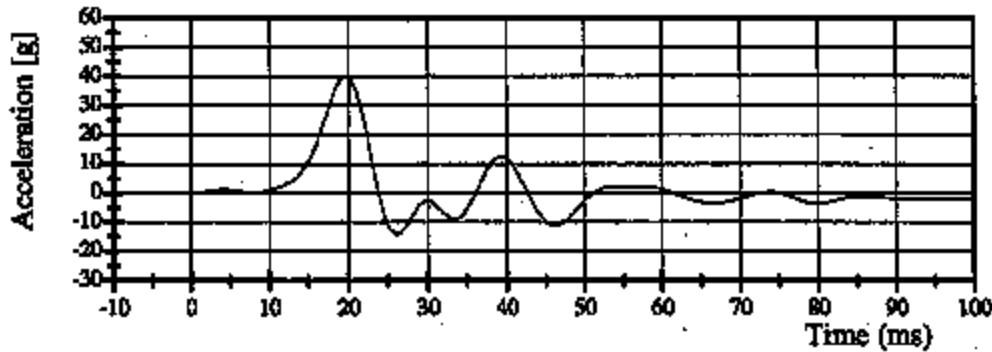
Transportation Research Center Inc.

572F Left Thorax Test

SID Serial No. 027 Calibration No. 02 - 2

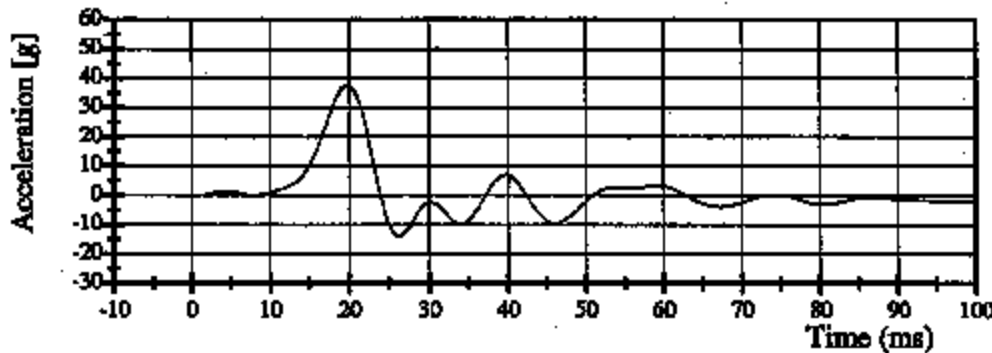
Test Date 10/26/2005

Upper Rib Bar Acceleration



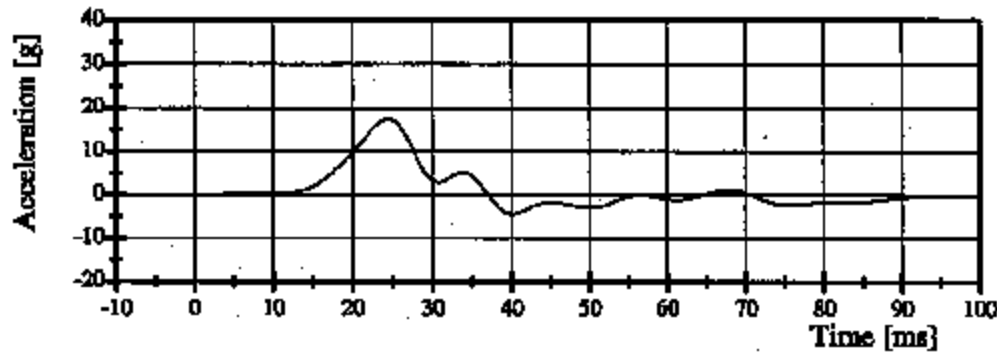
Filter Class: FIR 100
Max: 40.1 g at 19.7 ms
Min: -14.3 g at 25.9 ms

Lower Rib Bar Acceleration



Filter Class: FIR 100
Max: 37.7 g at 19.7 ms
Min: -13.9 g at 25.9 ms

Lower Thoracic Spine (T12) Acceleration



Filter Class: FIR 100
Max: 17.4 g at 24.6 ms
Min: -4.4 g at 40.2 ms

10.26.2005 10:08:38 599



TRANSPORTATION RESEARCH CENTER INC.

LUMBAR FLEXION TEST

SID PART 572B

CAL DATE: 25-Oct-05

TRC, INC.

TEST NO: 027C02TF1

572B SN 027 TORSO FLEX CAL 02

TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE	18.9 - 25.6° C	21.4 °C
RELATIVE HUMIDITY	10 - 70 %	36 %
FORCE AT 0 DEG. FLEXION	-27 - 27 N	0 N
FORCE AT 20 DEG OF FLEXION	98 - 151 N	137.9 N
FORCE AT 30 DEG OF FLEXION	151 - 205 N	195.7 N
FORCE AT 40 DEG OF FLEXION	205 - 258 N	253.6 N
NET RETURN ANGLE AFTER 3 MINUTES	< 12°	4.2°

TEST MEETS SPECIFICATIONS

TECHNICIAN

Vincent D. Oliver

Transportation Research Center Inc.

572B Abdomen Test

SID Serial No. 027 Calibration No. 02 - 2

Test Date 10/25/2005

Test Parameter	Specification	Test Results	Pass
Temperature	18.9 - 25.5 °C	21.4 °C	Yes
Relative Humidity	10 - 70 %	36 %	Yes
Displacement Rate	6.35 - 8.89 mm/s	7.6 - 8.0 mm/s	Yes
Data Within Required Corridor	Yes	Yes	Yes

Test meets specifications.

Comments:

Technician

Vincent D. Smith

Approved

Paul L. Stevens

10.25.2005 11:18:48 1994

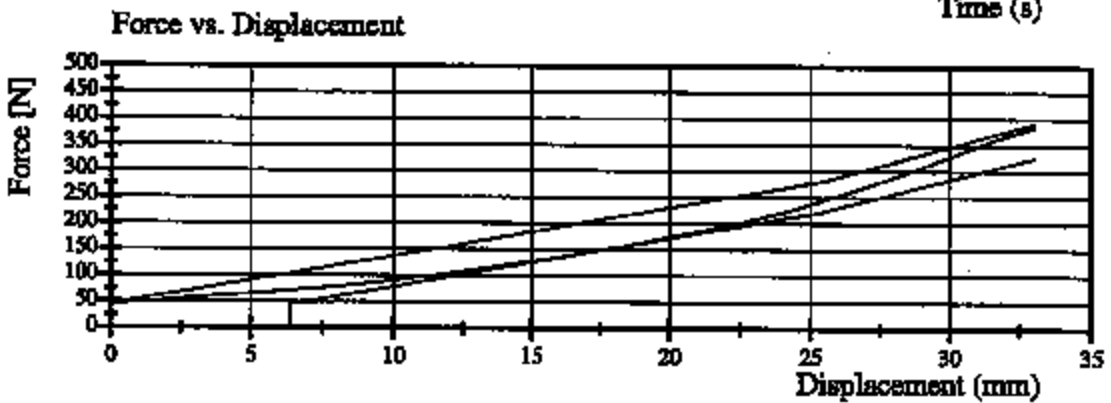
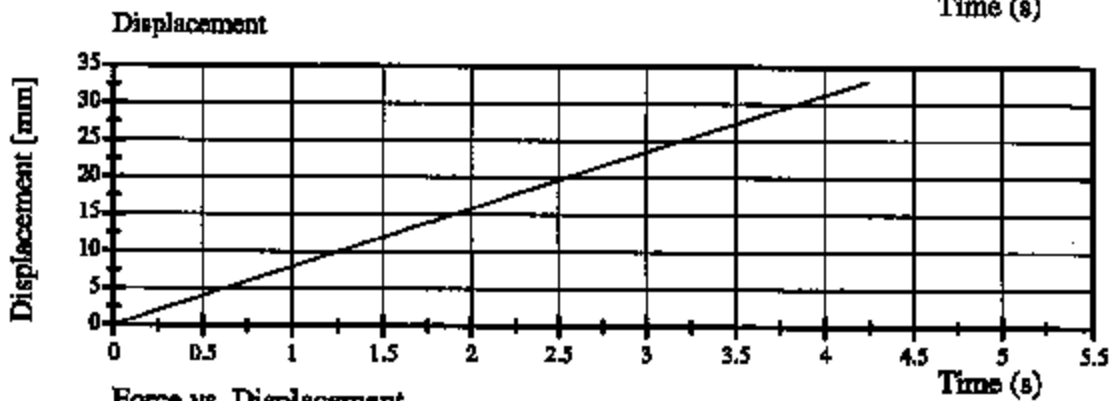
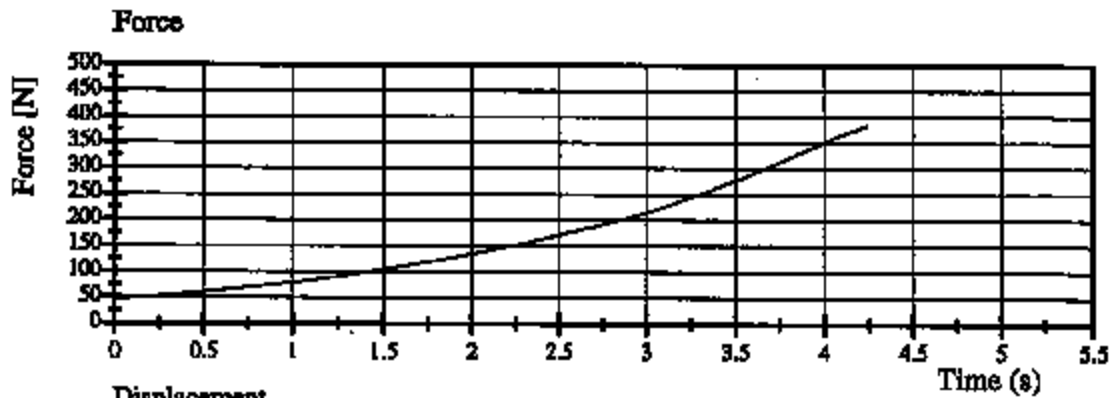
TRE

Transportation Research Center Inc.

572B Abdomen Test

SID Serial No. 027 Calibration No. 02 - 2

Test Date 10/25/2005



10/25/2005 11:18:48 1994



Transportation Research Center Inc.

572F Left Pelvis Test

SID Serial No. 027 Calibration No. 02 - 1

Test Date 10/26/2005

Test Parameter	Specification	Test Results	Pass
Temperature	18.9 - 25.5 C	21.4 C	Yes
Relative Humidity	10 - 70 %	28 %	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	5.92 ms	Yes
Unimodal requirement for pelvis acceleration	Yes	Yes	Yes

Comments:

Technician



Approved



10.26.2005 08:54:19 618

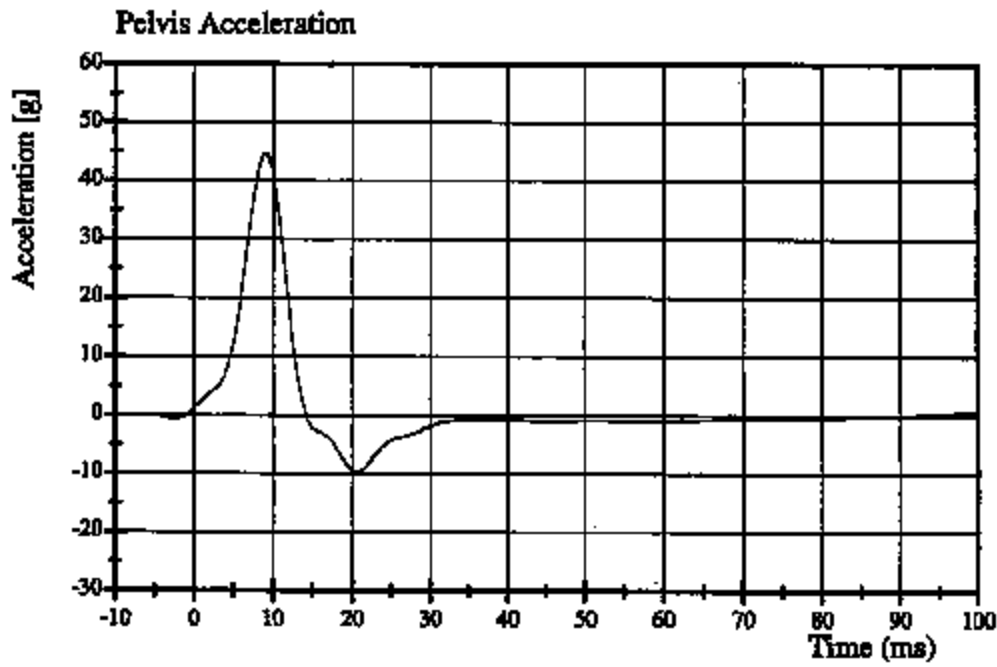


Transportation Research Center Inc.

572F Left Pelvis Test

SID Serial No. 027 Calibration No. 02 - 1

Test Date 10/26/2005



Filter Class: FIR 100

Max: 44.4 g at 9.4 ms

Min: -9.8 g at 20.6 ms

10.26.2005 08:54:20 618



Type: DOT SID S/N: 027 Mfr: Vector Test Date: 10/17/05Proj./Seg. No.: 20020455-2170 Test Eng.: Walter D. Dudek

ITEM	PRE-USE	
HEAD:		
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 Wrap Condition	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	N/A	
* Chest Pot Rod End Nuts and Eyebolt	N/A	
Arm Foam Orientation	X	
Thorax/Lumbar Spine Bolts	X	
Adjust rib cage position to full extension	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: 10/14/05

Transportation Research Center Inc.

SID Post-Use Inspection

Type: DOT SID S/N: 027

Mfr: Vector

Test Date: 10/17/05

Proj./Seg. No.: 20020455-2170

Test Eng.: Walter D. Dudek

ITEM	POST-USE
HEAD:	
Head Skin 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
FELVIS:	
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
TEMPERATURE DATA:	
Download temperature data logger	

NOTES: No damage to report.

Inspection Completed By: J. Clarridge

Date: 10/24/05

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 (Continued)
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 Test Number 051017

Ref	Transducer ID	ISO Signal Identifier	Description	FScale	Units	Assembly
1	Trlg D1	10ZERO000000EV00	EVENT		1 Logic	
2	P47535	11RIBSLU00SIACYA	Left Upper Rib Y	800 g		1-027 DOT SID Vector.001
3	P46465	11RIBSLURDSIACYA	Left Upper Rib Red Y	800 g		1-027 DOT SID Vector.002
4	P46466	11RIBSLLD0SIACYA	Left Lower Rib Y	800 g		1-027 DOT SID Vector.003
5	P47321	11RIBSLLRDSIACYA	Left Lower Rib Red Y	800 g		1-027 DOT SID Vector.004
6	P47502	11SPIN1200SIACYA	Lower Spine Y	400 g		1-027 DOT SID Vector.005
7	P47512	11SPIN12RDSIACYA	Lower Spine Red Y	400 g		1-027 DOT SID Vector.006
8	P48679	11PELVCG00SIACYA	Pelvis Accel Y	400 g		1-027 DOT SID Vector.007
9	P46475	16SILBFR0000ACXA	Right Side Sill at Front Seat X-axis Acceleration	400 g		
10	P44323	16SILBFR0000ACYA	Right Side Sill at Front Seat Y-axis Acceleration	1000 g		
11	P46468	16SILBFR0000ACZA	Right Side Sill at Front Seat Z-axis Acceleration	400 g		
12	P48657	16SILBRE0000ACXA	Right Side Sill at Rear Seat X-axis Acceleration	400 g		
13	P47311	16SILBRE0000ACYA	Right Side Sill at Rear Seat Y-axis Acceleration	1000 g		
14	P48670	16SILBRE0000ACZA	Right Side Sill at Rear Seat Z-axis Acceleration	400 g		
15	P46019	18FORA000000ACXA	Rear Floorpan Above Axle X-axis Acceleration	1000 g		
16	P46042	18FORA000000ACYA	Rear Floorpan Above Axle Y-axis Acceleration	1000 g		
17	P48677	18FORA000000ACZA	Rear Floorpan Above Axle Z-axis Acceleration	1000 g		
18	P38352	14SILBRE0000ACYA	Left Side Sill at Rear Seat Y-axis Acceleration	1000 g		
19	P47326	14SILBFR0000ACYA	Left Side Sill at Front Seat Y-axis Acceleration	1000 g		
20	P38685	16VEHCRE0000ACYA	Right Rear Occupant Compartment Y-axis Accel	1500 g		
21	P46059	14BPILLO0000ACYA	Left Lower B-Post Y-axis Accel	1500 g		
22	P34369	14BPILMIO0000ACYA	Left Middle B-Post Y-axis Accel	1500 g		
23	P42139	11APILLO0000ACYA	Left Lower A-Post Y-axis Accel	1500 g		
24	P45762	11APILMIO0000ACYA	Left Middle A-Post Y-axis Accel	1500 g		
25	P46066	11SETRFR0000ACYA	Left Front Seat Track Y-axis Acceleration	1500 g		
26	P35217	14SETRLERE00ACYA	Left Rear Seat Track Y-axis Acceleration	1500 g		
27	P46001	10VEHCCG0000ACXA	Vehicle Center of Gravity X-axis Acceleration	1000 g		
28	P45689	10VEHCCG0000ACYA	Vehicle Center of Gravity Y-axis Acceleration	1000 g		
29	P46473	10VEHCCG0000ACZA	Vehicle Center of Gravity Z-axis Acceleration	1000 g		

D-6

051017

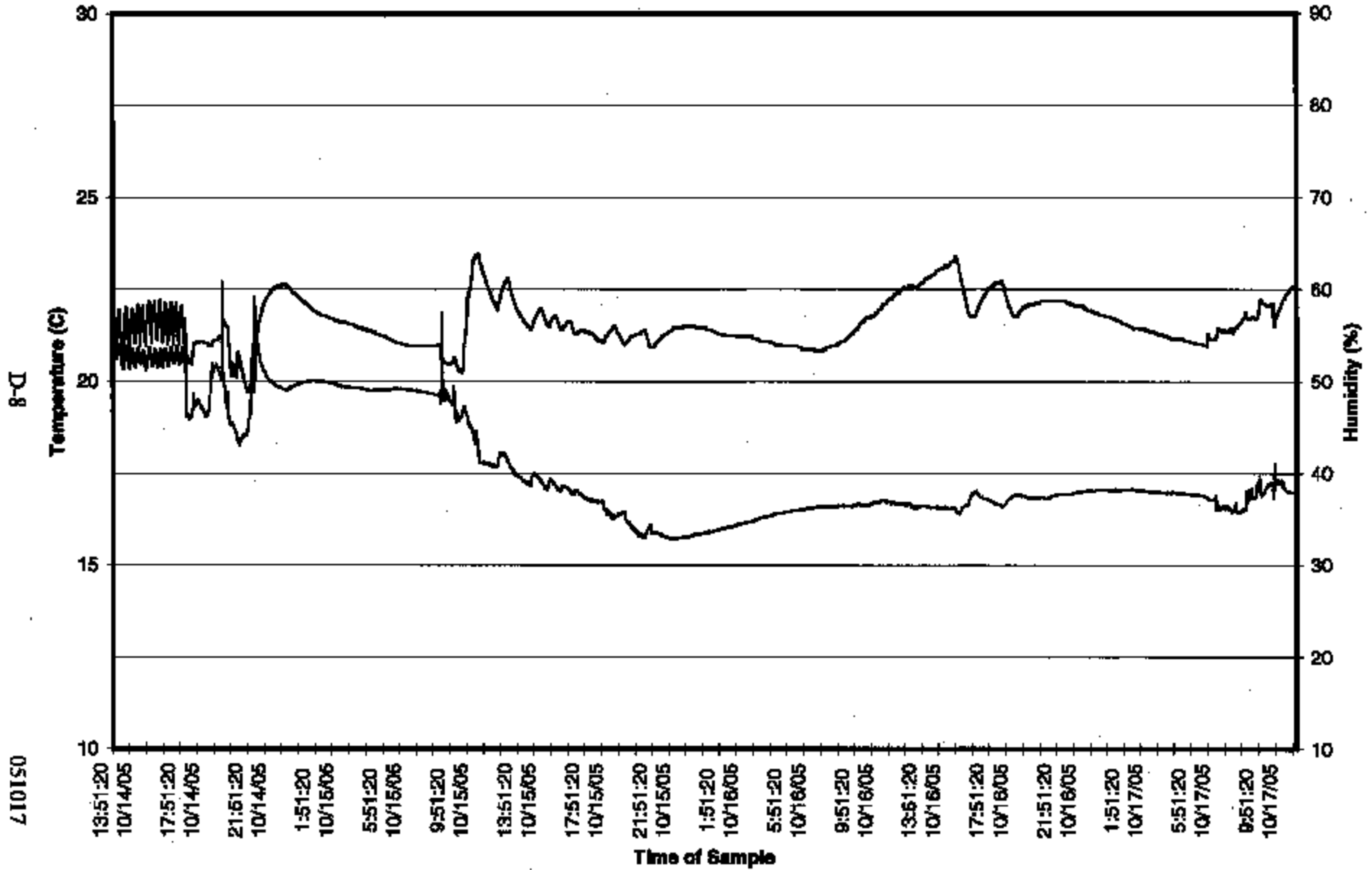
Channel Report Test Number 051017

Ref	Transducer ID	ISO Signal Identifier	Description	FScale	Units
1	P45708	M0VEHCCG0000ACXA	MDB Center of Gravity X-axis Acceleration	600	g
2	P48646	M0VEHCCG0000ACYA	MDB Center of Gravity Y-axis Acceleration	600	g
3	P48647	M0VEHCCG0000ACZA	MDB Center of Gravity Z-axis Acceleration	800	g
4	P39976	M7FRAM000000ACXA	MDB Left Rear X-axis Acceleration (on left frame over axle)	600	g
5	P48666	M7FRAM000000ACYA	MDB Left Rear Y-axis Acceleration (on left frame over axle)	600	g
6	Bit.00	M3CONT000000VO00	MDB Right Side Contact Switch	1	Logic
7	Bit.02	M1CONT000000VO00	MDB Left Side Contact Switch	1	Logic

D-7

051017

48/24 KPH 90 DEGREE SIDE IMPACT (MDB) INTO LEFT SIDE OF 2006 MITSUBISHI ECLIPSE



710150



**BEST BACKED
CARS IN THE WORLD**

- 10-year/100,000 mile Powertrain Limited Warranty
- 5-year/80,000 mile New Vehicle Limited Warranty
- 5-year/Unlimited mile Roadside Assistance Plan
- See participating retailer for Limited Warranty and Roadside Assistance terms and conditions.

CONSUMER INFORMATION

Gasoline, license and title fees, applicable federal, state and local taxes and dealer and distributor installed options and accessories are not included in the manufacturer's suggested retail price. This label has been applied to this vehicle pursuant to federal law and cannot be moved or altered prior to delivery to ultimate purchaser.

PARTS CONTENT INFORMATION

For vehicles in this country:
U.S./Canadian Parts Content: 47%
Major Sources of Foreign Parts Content:
JAPAN 35%

For this vehicle:
Final Assembly Point: **NORMAL, IL USA**
Country of Origin:
Engine: JAPAN
Transmission: JAPAN

Note: Parts content does not include final assembly, distribution, or other non-parts cost.

CITY MPG

23



HIGHWAY MPG

30

Actual mileage will vary with system, driving conditions, driving habits and vehicle condition. Results reported to EPA indicate that the majority of vehicles with these estimates will achieve between

2008 MITSUBISHI ECLIPSE GS
4-DOOR (SPORT COUPE)
2.4L 1600 I4 MIVEC
5-SPEED CVT MANUAL TRANSMISSION

For Comparison Purposes, all vehicles classified as SUBCOMPACT CAR have been tested. Mileage ratings apply from

Estimated Annual Fuel Cost:
1080

PA to PA mpg city and
PA to PA mpg highway.

WARRANTY

10-year/100,000 mile Powertrain Limited Warranty
5-year/80,000 mile New Vehicle Limited Warranty
5-year/Unlimited mile Roadside Assistance Plan

2.4L 1600 I4 MIVEC
5-SPEED CVT MANUAL TRANSMISSION
2.4L 1600 I4 MIVEC
5-SPEED CVT MANUAL TRANSMISSION

STANDARD EQUIPMENT & INSTALLED OPTIONS

MANUFACTURER'S SUGGESTED RETAIL PRICE (MSRP) \$ 19,399.00

SAFETY FEATURES

- ADVANCED DUAL STAGE FRONT AIR BAGS
- DUAL SEAT MOUNTED SIDE AIR BAGS
- DUAL CURTAIN AIR BAGS
- SIDE IMPACT DOOR BEAMS
- 3-POINT SAFETY BELTS, FRONT & REAR
- UPPER & LOWER CHILD RESTRAINT ANCHOR SYSTEM
- ANTI-THIEF ENGINE IMMOBILIZER
- DAYTIME RUNNING LAMPS

INCLUDED
INCLUDED
INCLUDED
INCLUDED
INCLUDED
INCLUDED

- INTEGRATED REAR-WINDOW ANTENNA
- CLEAR LED TAIL LAMPS

INCLUDED
INCLUDED

Options

- ES PREMIUM PAINT CHANGE

130.00

Sub-Total \$ 19,529.00
Destination/Handling \$ 595.00

TOTAL \$ 20,124.00

PERFORMANCE/HANDLING

- ANTI-LOCK BRAKING SYSTEM
- POWER ASSISTED 4-WHEEL DISC BRAKES
- PWR ASSISTED RACK/PINCH STEERING
- 4-WHEEL INDEPENDENT SUSPENSION
- FRONT & REAR STABILIZER BARS

INCLUDED
INCLUDED
INCLUDED
INCLUDED
INCLUDED

COMFORT/CONVENIENCE

- AIR CONDITIONING
- POWER WINDOWS W/DRIVER SIDE AUTO-DOWN & 30 SECOND POWER RESERVE
- POWER DOOR LOCKS
- AM/FM/CD W/6 SPEAKERS & MP3 PLAYBACK
- HIGH-CENTER CLOCK & AUDIO SYSTEM DISPLAY

INCLUDED
INCLUDED
INCLUDED
INCLUDED
INCLUDED

CRUISE CONTROL

- ICE BLUE LED ILLUMINATION
- MAP LIGHTS WITH DIMMER FEATURE
- 6-WAY ADJ DRIVER SEAT W/ LUMBAR
- VARIABLE INTMIT FRONT & REAR WIPERS
- REMOTE KEYLESS ENTRY W/ PANIC
- 50/50 SPLT FOLDDOWN REAR SEATBACK
- HIGHT ADJUSTABLE STEERING COLUMN
- ILLUMINATED VISOR VANITY MIRRORS
- 12V ACCESSORY OUTLETS (2)
- CARGO COVER & FRONT FLOOR MATS

INCLUDED
INCLUDED
INCLUDED
INCLUDED
INCLUDED
INCLUDED
INCLUDED
INCLUDED
INCLUDED
INCLUDED

EXTERIOR FEATURES

- 17" ALLOY WHEELS
- 285/60 R17 89V ALL-SEASON TIRES
- COLOR-KEYED PWR SIDE VIEW MIRRORS
- INTEGRATED REAR SPOILER

INCLUDED
INCLUDED
INCLUDED
INCLUDED

Ship To:
38083 (DBA) MEDINA MITSUBISHI
2856 MEDINA ROAD
MEDINA, OH 44880

Model Year (Date when delivered)

Class #: 82004708
Model of Transport:
Plant/Part of Entry: NORMAL, IL



YDR 4A3AK24F568004756

D-9

051017

SIDE IMPACTOR BARRIER CERTIFICATION

Date: November 29, 2004
To: Honda R & D America
21001 State Route 739
Raymond, OH 43067-9705

PURCHASE ORDER INFORMATION

Customer P.O. Number: HOA-434486
Work Order Number: 114310
Plascore Part Number: 18723
Quantity: 01 piece

CORE INFORMATION

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

Unit Number: 219A1004

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



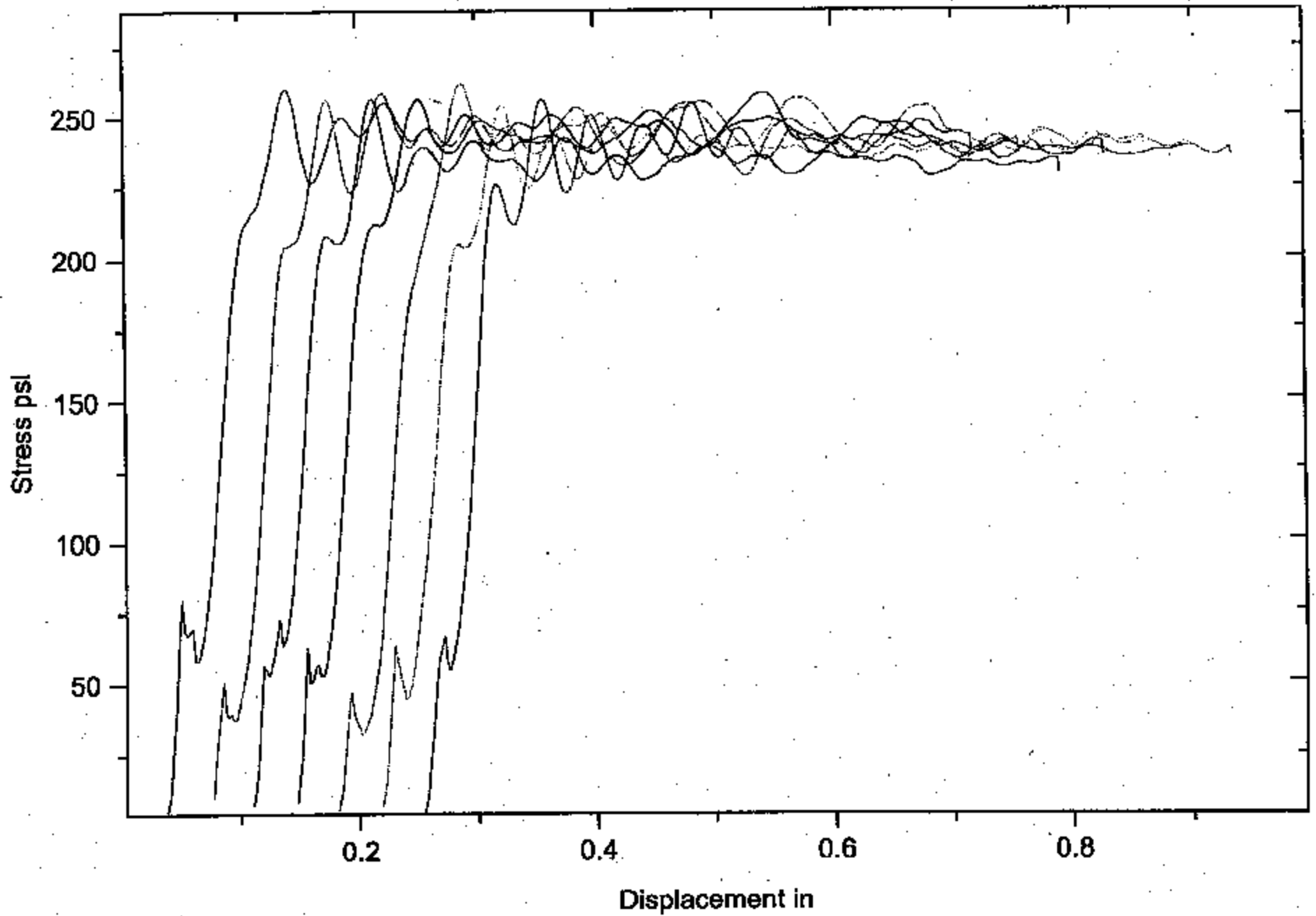
Quality Control Representative
Karl D. Zwaanstra

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

Block Number: 219A1004

<u>Specimen Number</u>	<u>Zone 1</u>	<u>Zone 2</u>	<u>Zone 3</u>
1	242.89	243.72	244.20
2	243.30	241.62	240.54
3	233.74	233.45	232.18
4	246.26	245.29	238.37
5	246.84	246.36	244.28
6	238.95	237.62	239.35
7	239.13	238.11	236.77

BLOCK # 219A1004 Sample ID: IN231977



D-12

051017

SIDE IMPACTOR BARRIER CERTIFICATION

Date: November 29, 2004
To: Honda R. & D America
21001 State Route 739
Raymond, OH 43067-9705

PURCHASE ORDER INFORMATION

Customer P.O. Number: HOA-424486
Work Order Number: 114310
Plascore Part Number: 18723
Quantity: 01 piece

CORE INFORMATION

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

Unit Number: 239B1004

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 per DWG# DSL-1285.



Quality Control Representative
Karl D. Zwaangstra

Crush Data
45 psi +/- 2.5 psi per DWG # DSL-1285

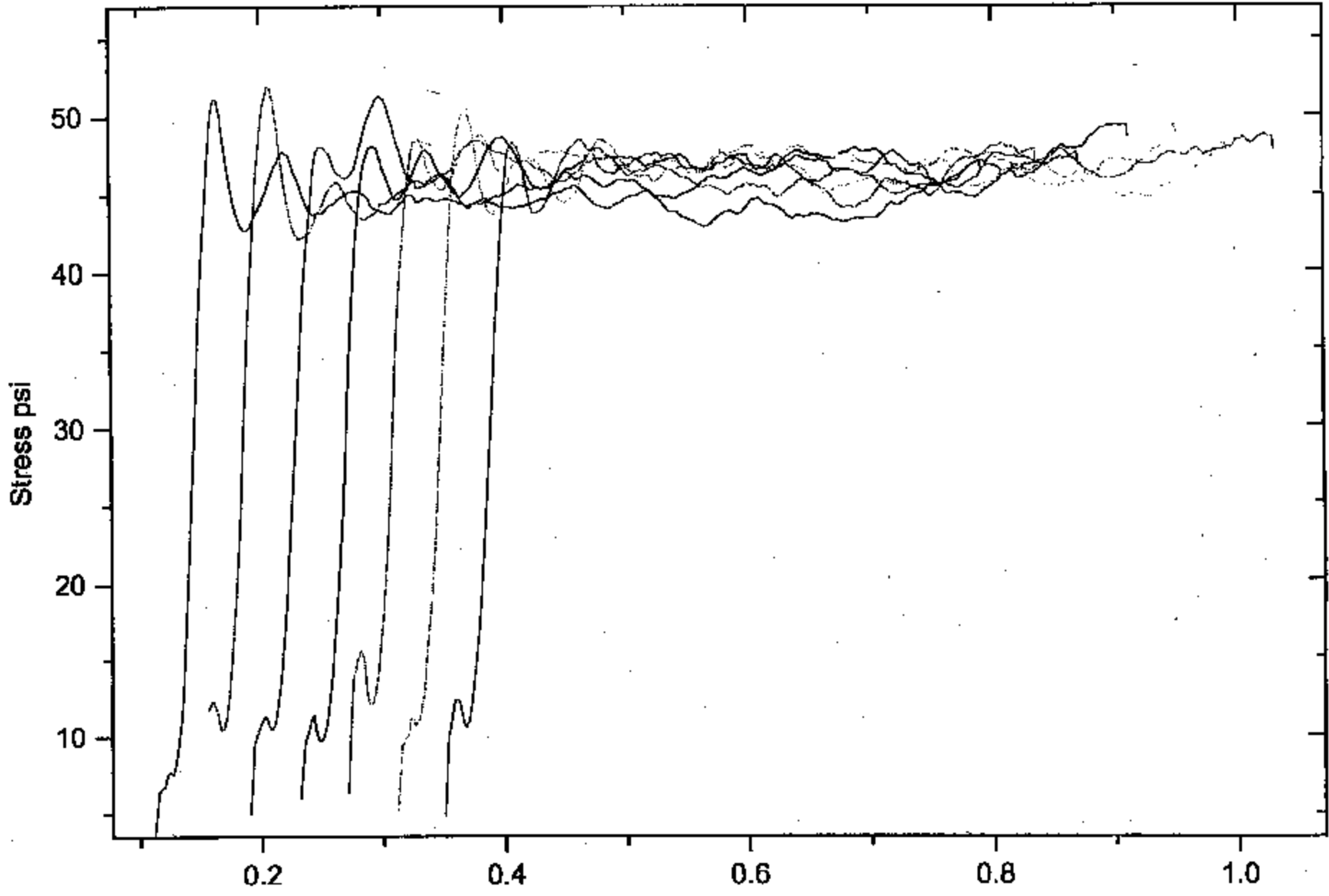
Block Number: 239B1004

<u>Specimen Number</u>	<u>Zone 1</u>	<u>Zone 2</u>	<u>Zone 3</u>
1	44.62	43.96	44.35
2	46.58	45.24	46.22
3	47.11	46.91	46.07
4	45.79	46.93	47.36
5	47.06	47.13	47.08
6	46.49	46.08	45.56
7	47.00	45.98	46.76

BLOCK # 239B1004 Sample ID: IN231994

D-15

051017



Displacement in

TRC



TRANSPORTATION RESEARCH CENTER INC.
East Liberty, Ohio 43319-0367