

EA12-005

CHRYSLER

12-13-2012

Enclosure 6B

301 Developmental Crash

Tests Public

KJ Development Crash Test

VC11439.DOC.FOLLOW-
UP_MEASUREMENTS

FUEL SYSTEM AND STATIC ROLLOVER SUMMARY

TEST NUMBER VC11439, ITEM NUMBER 4W [REDACTED], TEST ENGINEER COLLINGS
 V.I.N. 1J4GL38K54W [REDACTED] TEST DATE 2/6/04, ROLL DATE 2/9/4

TEST TYPE; 30 MPH REAR TYPE IV MOVING BARRIER IMPACT

FUEL; TYPE AND QUANTITY - .767 S.G. STODDARD SOLVENT, 19.5 GALLONS

TEST SPEED 30.3 MPH, TEST WEIGHT 4919 POUNDS.

POST IMPACT LEAKAGE(OZ); AT IMPACT 0

1ST 5 MIN. 0

NEXT 25 MIN. 0

POST TEST PRESSURE CHECK No leaks

ELECTRIC FUEL PUMP RUN No leaks

NO STATIC ROLL PERFORMED

STATIC ROLL LEAKAGE WITH VEHICLE Left SIDE DOWN FIRST

		FUEL LEAKAGE LOCATIONS DURING STATIC ROLL				TOTAL
ROLL TIME						
0-90	1ST 5 MIN					0 *
<u>1:48</u>	POST 5 MIN					0 **
90-180	1ST 5 MIN					0 *
<u>1:47</u>	POST 5 MIN					0 **
180-270	1ST 5 MIN					0 *
<u>1:40</u>	POST 5 MIN					0 **
270-360	1ST 5 MIN					0 *
<u>1:41</u>	POST 5 MIN					0 **

* OUNCES IN 5 MINUTES, ** OUNCES PER MINUTE

POST TEST FUEL SYSTEM OBSERVATIONS _____

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VC11439.DOC.TEST_REPOR
T_RECORDS

VEHICLE ATTITUDE

TEST NUMBER VC11439

TEST ENGINEER COLLINGS

ITEM NUMBER 4W [REDACTED]

~~X~~ FENDER/WHEELWELL HEIGHTS _____ SILL HEIGHTS

	LF	LR	RF	RR
AS RECEIVED	31.9	32.9	31.9	32.9
AS BUILT-UP				
AS TESTED	30.8	31.6	30.8	31.6

X, Y, Z DIMENSIONS

TEST NUMBER VC11439

TEST ENGINEER COLLINGS

ITEM NUMBER 4W [REDACTED] V.I.N. 1J4GL38K54W [REDACTED]

TEST TYPE: 30 MPH REAR TYPE IV MOVING BARRIER IMPACT

LOCATION	X	Y	Z	LOCATION	X	Y	Z
BC1	0.0	0.0	XXXX	BC2 *	165.0	0.0	XXXX
B1	-----		XXXX	B2	-----		XXXX
U1	103.8	19.4	10.7	U2	103.8	18.7	10.8
U3	121.9	10.5	18.0	U4	123.5	7.9	18.4
U5	129.0	0.3	8.8	U6	138.5	18.9	22.1
U7	139.9	19.2	22.2	U8	142.8	5.6	11.8
U9	143.1	4.0	11.9	U10	151.2	4.6	11.5
U11	152.0	4.3	11.5	U12	155.5	18.0	22.2
U13	155.3	19.5	22.3				
				UC1	161.8	0.0	16.7
LAP	56.3	50- 23.5 - 26.5	49.8				
LFS	64.5	50- 18.5 - 31.5	11.0	BC2 * (spare tire)	171.5		
LMS	93.4	50- 18.5 - 31.5	11.2				
LRW	132.3	50- 18.3 - 31.7	14.2				

T.E. INITIALS: X & Y MBZ, Z MBZ, TRAMMELS: PRE MBZ, POST MBZ

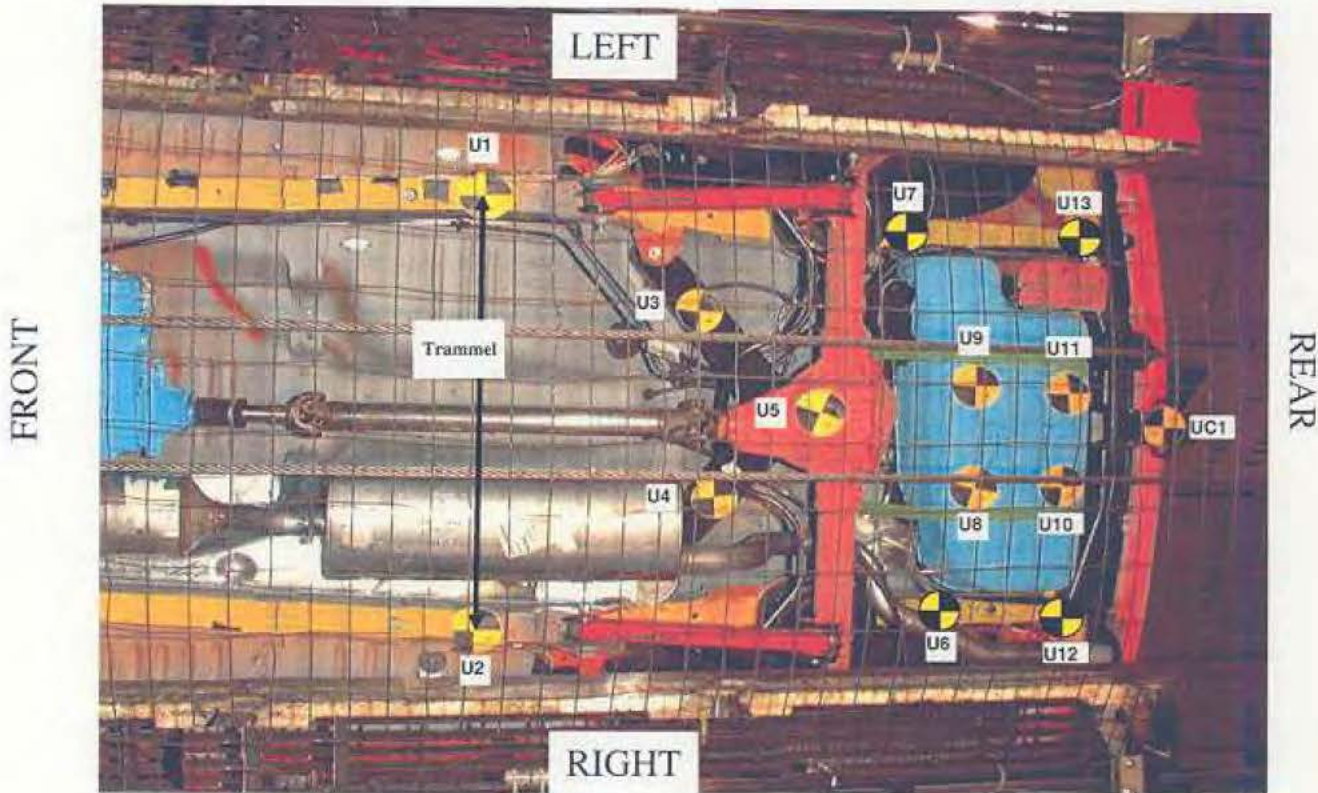
TRAMMEL DIMENSIONS;

LFS-LMS PRE 29.73 U1-U2 37.21
 POST 29.74

Underbody Rear Impact

ALL REAR IMPACT TEST MODES

Visibility Approved: DGL / 05/03/1999
 Approved for CPG Use: GAB /05/03/1999
 Impact Analysis Engineer: ASD 09/06/02
 ASD T/L:722-1916; PAGER 586-898-4235



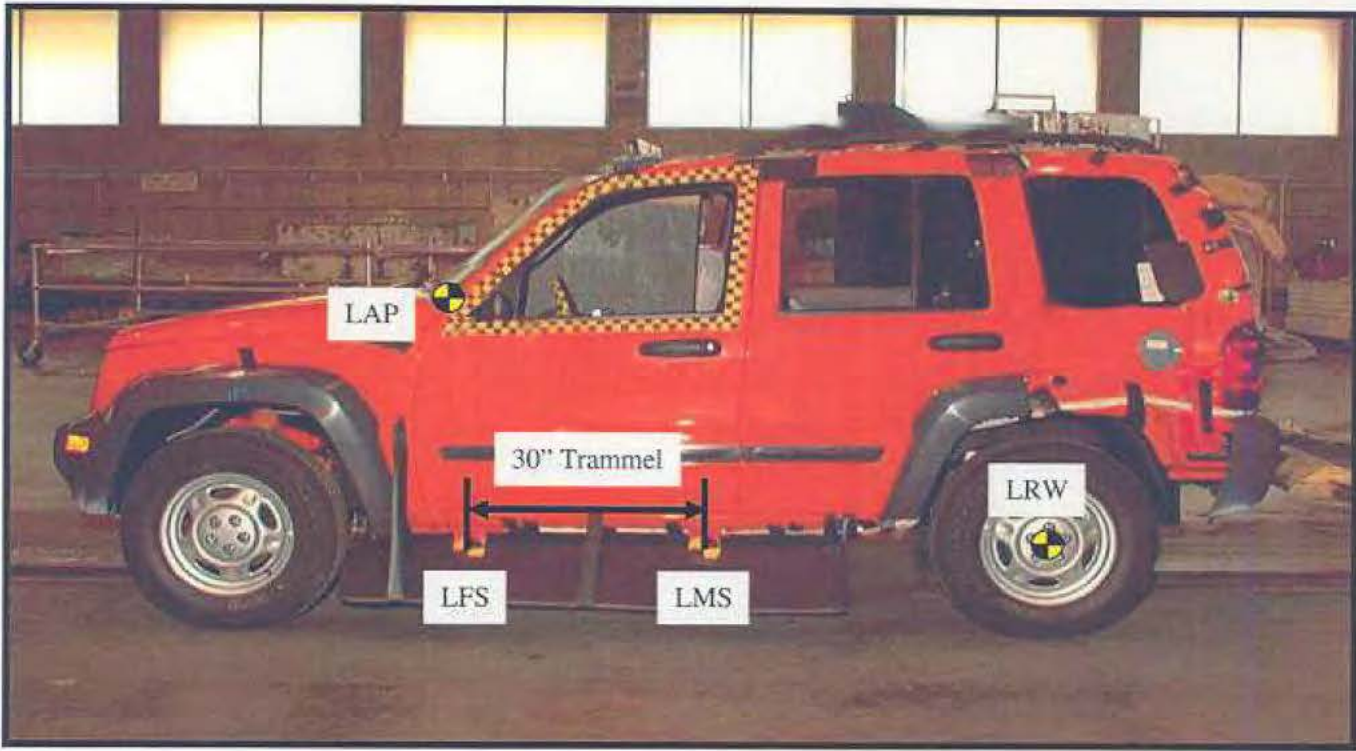
Guidelines to Placement of Critical Targets:

ITEM	COMMENTS
U1 & U2	5.5" IN FRONT OF FORWARD EDGE OF CONTROL ARM MOUNTING BRACKET.
U3 & U4	CENTER OF UPPER SWING ARMS.
U5	ON CENTER OF REAR DIFFERENTIAL
U12 & U13	END OF RAILS AT REAR BUMPER CROSSMEMBER
U6	14" FORE OF U12
U7	ON LEFT RAIL 16" FORWARD OF U13
U8,U9,U10 & U11	IN SQUARE PATTERN, INSIDE STRAPS ON BOTTOM SURFACE OF THE FUEL TANK
UC1	CENTERED ON REAR BUMPER CROSSMEMBER

Left Side Rear

Visibility Approved: DGL / 05/03/1999
Approved for CPG Use: GAB /05/03/1999
Impact Analysis Engineer: ASD 09/06/02
ASD T/L:722-1916; PAGER 586-898-4235

ALL REAR IMPACT TEST MODES



Guidelines to Placement of Critical Targets:

ITEM	COMMENT
LMS	BOTTOM OF B-POST ON SILL
LFS	30" FORE OF LMS
LRW	CENTER OF REAR WHEEL
LAP	4" UP FROM BOTTOM OF WINDSHIELD ON A-POST

Test VC11439

Last Requester Update
Last Check

02/05/2004 10:00:22 AM EST
2/5/2004 10:54:29 AM

VC11439 48.3 KPH REAR (FULL) TYPE IV ITEM 4W [REDACTED] 05 KJ, USA 301-REAR DEVELOPMENT TEST TEST DATE 02/06/2

Analysis	Camera	Lens	Sync	F Stop	HGacq	Pnl	Cib	Skt
1 <input checked="" type="checkbox"/>	LEFT HIGH TARGETS				DCR,			
	427	Locam	13	mm	105436	KIN		250
2 <input checked="" type="checkbox"/>	LEFT LOW TARGETS				DCR,			
	429	Locam	13	mm	102916	KIN		250
3 <input checked="" type="checkbox"/>	PIT NORTH MID TARGETS				UBR,			
	430	Locam	13	mm	13-1	COS		250
4 <input checked="" type="checkbox"/>	PIT SOUTH REAR TARGETS				UBR,			
	431	Locam	13	mm	13-4	COS		250
5 <input type="checkbox"/>	CATWALK VEHICLE REAR MDB INTERACTION							
	1	HG2000	ZOOM	mm	#1	CAN		250
6 <input type="checkbox"/>	LEFT OVERALL							
	2	HG2000	ZOOM	mm	#5	CAN		250
7 <input type="checkbox"/>	PIT FUEL FILLER TUBE							
	9	HG2000	25	mm	53848	COS		250
8 <input type="checkbox"/>	PIT FUEL TANK							
	6	HG2000	13	mm	9397	COS		250
9 <input type="checkbox"/>	RIGHT OVERALL							
	16	HG2000	25	mm	112347	KIN		250
10 <input checked="" type="checkbox"/>	VELOCITY HG2000				VEL,			
	18	HG2000	ZOOM	mm	#8	CAN		250

In Addition to Default Print:

ORIGINAL ORDER

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CHRYSLER
12-13-2012
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Tests Public
KJ Development Crash Test
VC11439.EDP.LETTER Public

DATE 02/06/04
TIME 10:50:21.

ELECTRONIC DATA PROCESSING
EDP TEST LETTER

VEHICLE CRASH ENGINEERING
DEPT 5320

VC11439 ITEM 4W [REDACTED]
VC11439 48.3 KPH REAR (FULL) TYPE IV ITEM 4W [REDACTED]
05 KJ, USA 301-REAR DEVELOPMENT TEST
TEST DATE 02/06/04
TEST SITE CPG

TEST PURPOSE PRIMARY, 2005 USA 301-REAR DEVELOPMENT

IMPACT TYPE TARGET SPEED; 48.3 KPH
DAMAGE LOCATION; REAR (FULL)
BARRIER TYPE; REAR TYPE IV
BARRIER SURFACE; PLYWOOD

VEHICLE BODY CLASS; KJ
CAR LINE; J
BODY; 74
ENGINE; 3.7 LITER
ENGINE NOTE;
TRANSMISSION; 6 SPEED MANUAL
TRANS. NOTE;
VIN AS TESTED; 1J4GL38K54W [REDACTED] MOD.
VIN AS BUILT; 1J4GL38K54W [REDACTED] MOD.

TEST SPEED 48.79 KPH BY TRAP AVERAGE

TEST WEIGHT (KG) 2231 TOTAL, 1161 FRONT, 1070 REAR

OCCUPANTS 1L - 50TH MALE BALLAST HYBRID 2, 0 - CH AD-60
RESTRAINT- 3-PT UNIBELT ONLY
1R - 50TH MALE BALLAST HYBRID 2, 0 - CH AD-59
RESTRAINT- 3-PT UNIBELT ONLY

BUILD CONDITION

TARGET WEIGHT (KG) 2231 TOTAL, 1160 FRONT, 1071 REAR
INCLUDING BALLAST AND OCCUPANTS

FUEL AND BALLAST 73.8 LITERS STODDARD SOLVENT
136.1 KG BALLAST WEIGHT SECURED IN CARGO AREA
206.4 KG ADDITIONAL BALLAST WEIGHT ADDED
330LBS 2-BALLAST 50TH MALE 2ND ROW
50LBS 1L FLOOR PAN
75LBS 1R FLOOR PAN

DATE 02/06/04
TIME 10:50:21.

ELECTRONIC DATA PROCESSING
EDP TEST LETTER

VEHICLE CRASH ENGINEERING
DEPT 5320

VC11439 ITEM 4W [REDACTED]
VC11439 48.3 KPH REAR (FULL) TYPE IV ITEM 4W [REDACTED]
05 KJ, USA 301-REAR DEVELOPMENT TEST
TEST DATE 02/06/04
TEST SITE CPG
EDP TECHNICIAN S. MARCHENIA

No. of Pages 47
CC

S. MARSH 514-17-39
M. STEBELTON 422-05-01

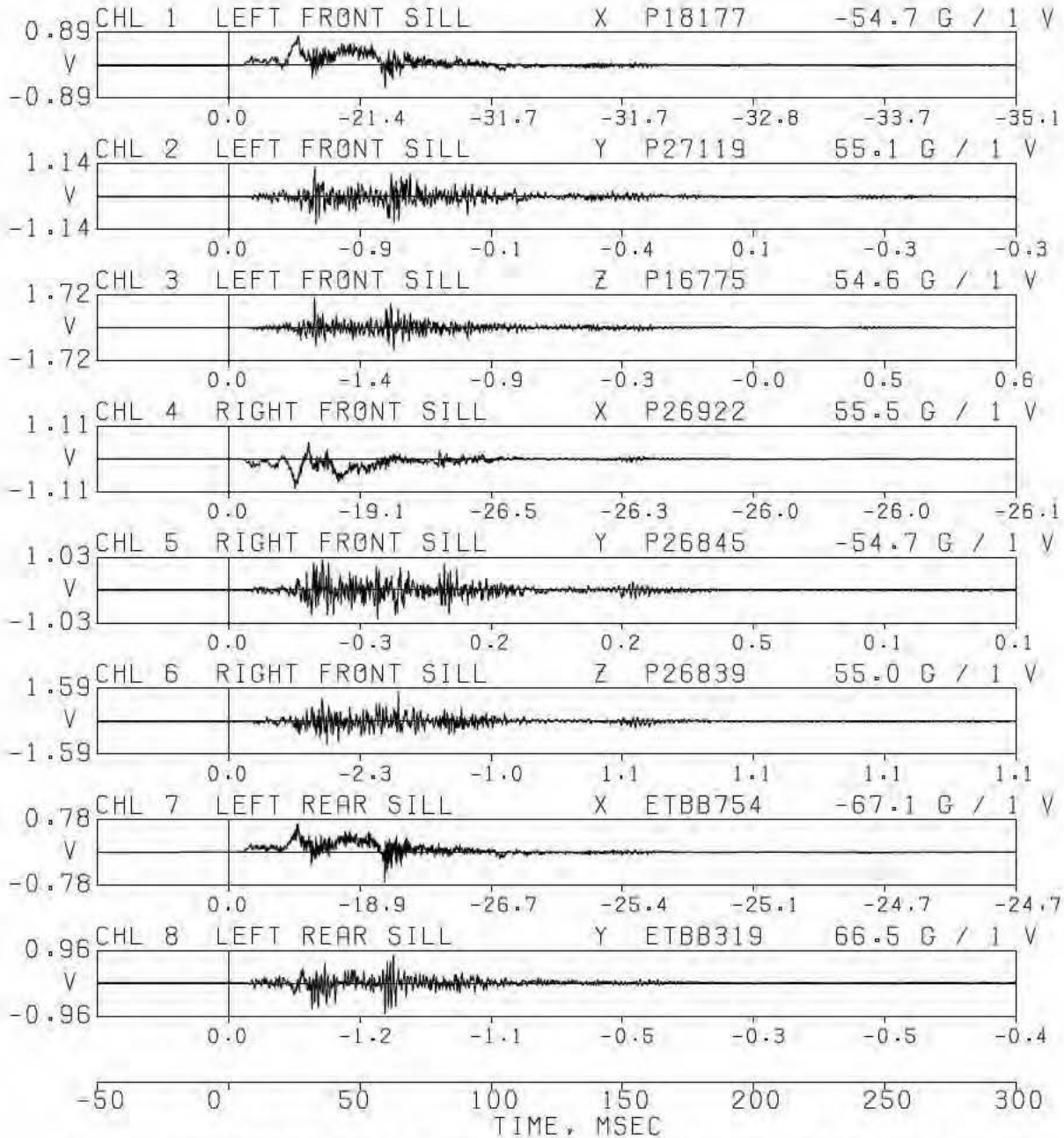
EA12-005
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12-13-2012
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301 Developmental Crash
Tests Public
KJ Development Crash Test
VC11439.EDP.REPORT

TRANSDUCER SUMMARY REPORT

VC11439 48.3 KPH REAR (FULL) TYPE IV ITEM 4W [REDACTED]
 05 KJ, USA 301-REAR DEVELOPMENT TEST
 IMPACT ANALYSIS DEPT. 5320
 FEB 6, 2004

DATA SET 02/06/04BA
 ERRATA 1

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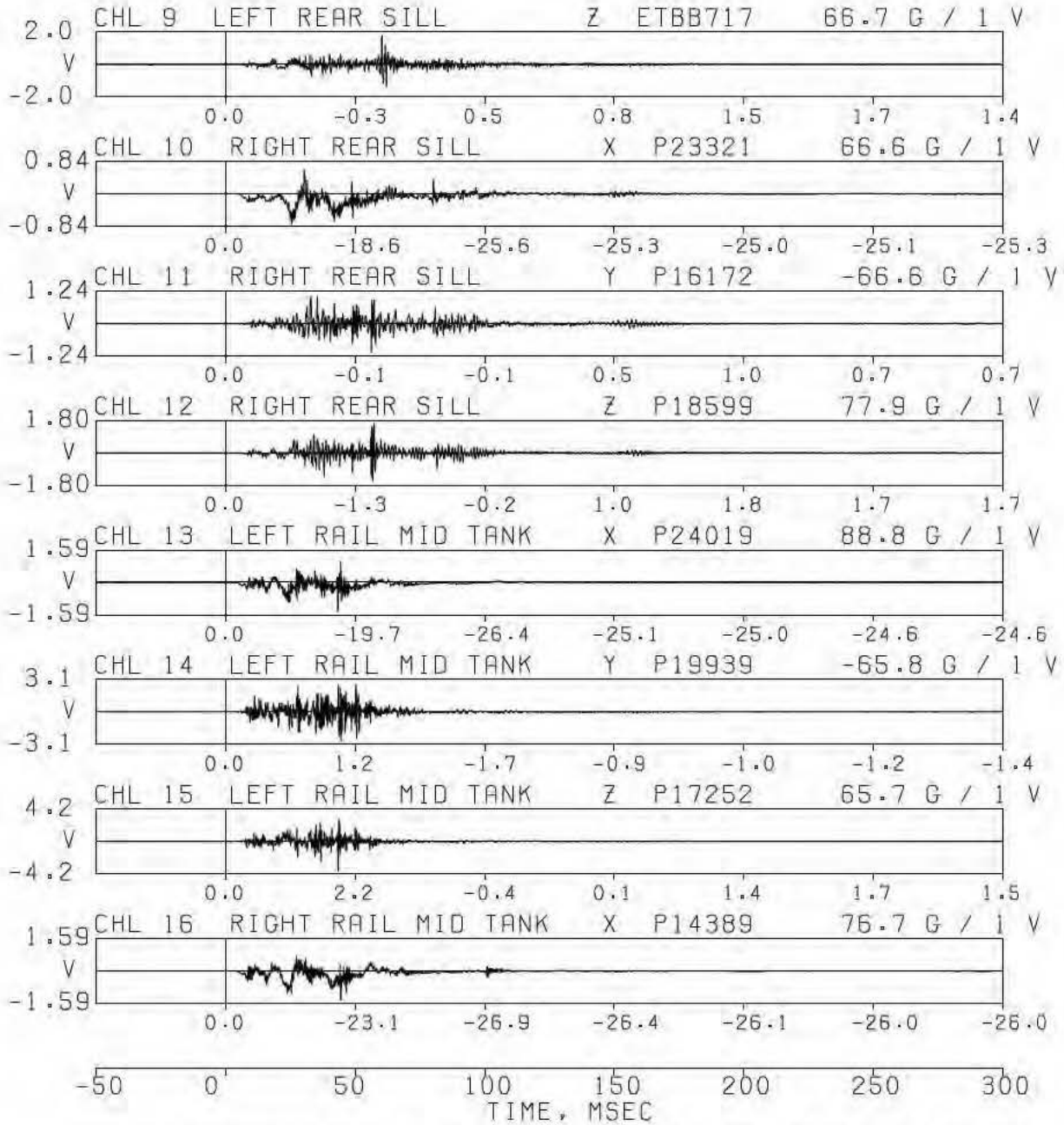
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TRANSDUCER SUMMARY REPORT

VC11439 48.3 KPH REAR (FULL) TYPE IV ITEM 4W [REDACTED]
 05 KJ, USA 301-REAR DEVELOPMENT TEST
 IMPACT ANALYSIS DEPT. 5320
 FEB 6, 2004

DATA SET 02/06/04BA
 ERRATA 1

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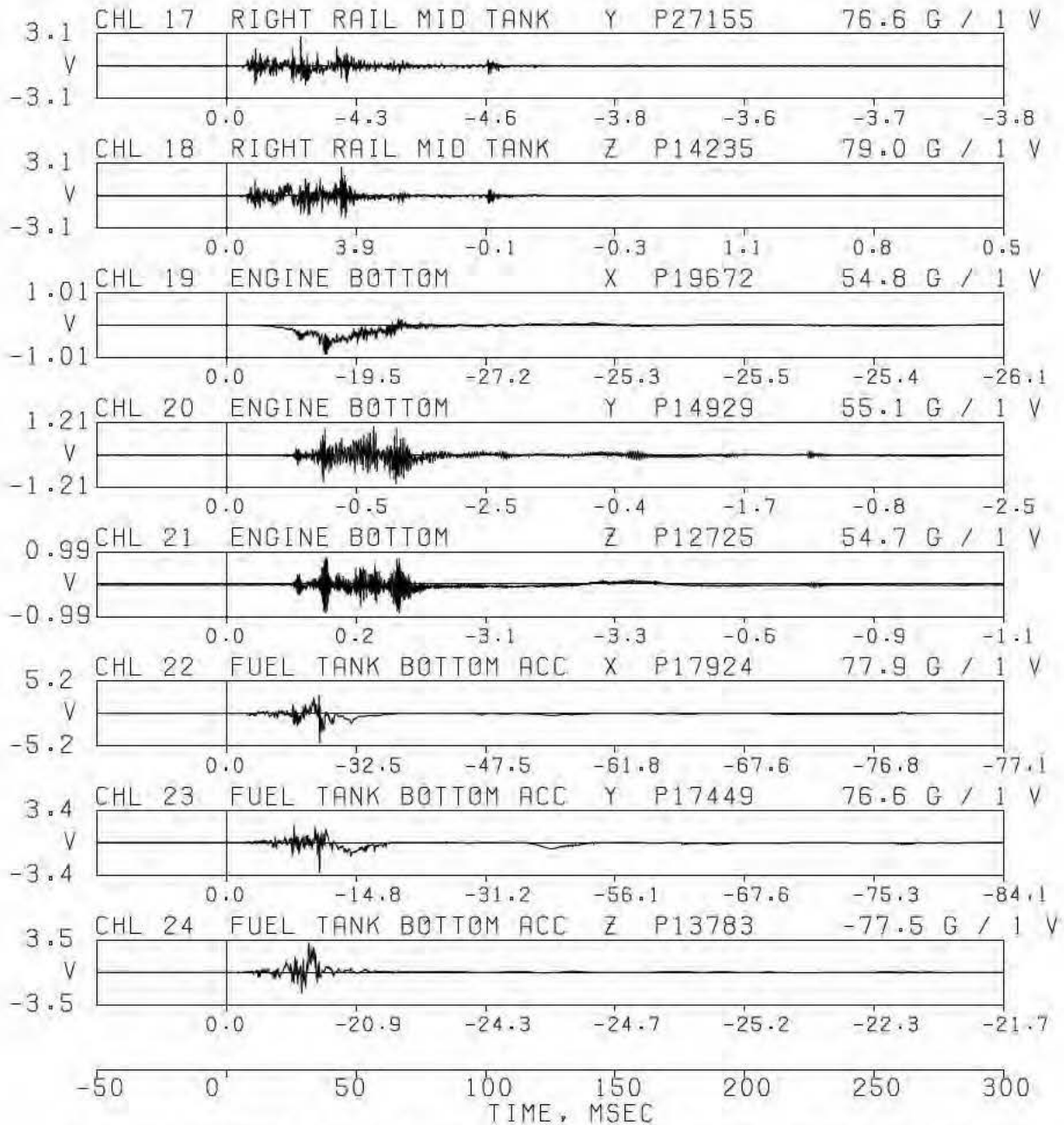
NOTE COMPUTED FIRST INTEGRAL VALUES ARE INDICATED BELOW EACH CHANNEL AND BRIDGED DATA IS INDICATED BY A -B-.

TRANSDUCER SUMMARY REPORT

VC11439 48.3 KPH REAR (FULL) TYPE IV ITEM 4W
 05 KJ, USA 301-REAR DEVELOPMENT TEST
 IMPACT ANALYSIS DEPT. 5320
 FEB 6, 2004

DATA SET 02/06/04BB
 ERRATA 1

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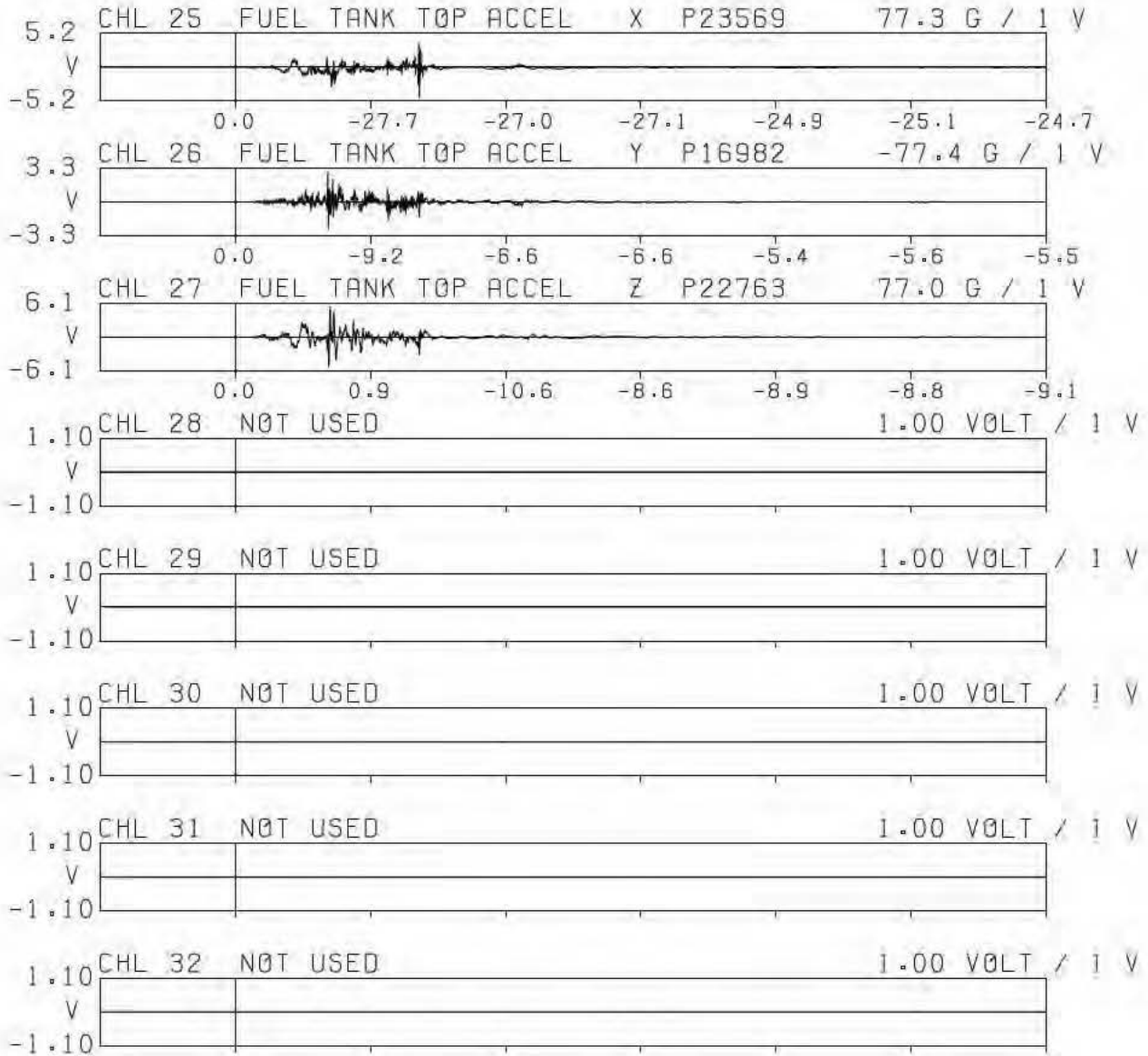
NOTE COMPUTED FIRST INTEGRAL VALUES ARE INDICATED BELOW EACH CHANNEL AND BRIDGED DATA IS INDICATED BY A -B-.

TRANSDUCER SUMMARY REPORT

VC11439 48.3 KPH REAR (FULL) TYPE IV ITEM 4W
 05 KJ, USA 301-REAR DEVELOPMENT TEST
 IMPACT ANALYSIS DEPT. 5320
 FEB 6, 2004

DATA SET 02/06/04BB
 ERRATA 1

-50 0 50 100 150 200 250 300



-50 0 50 100 150 200 250 300
 TIME, MSEC

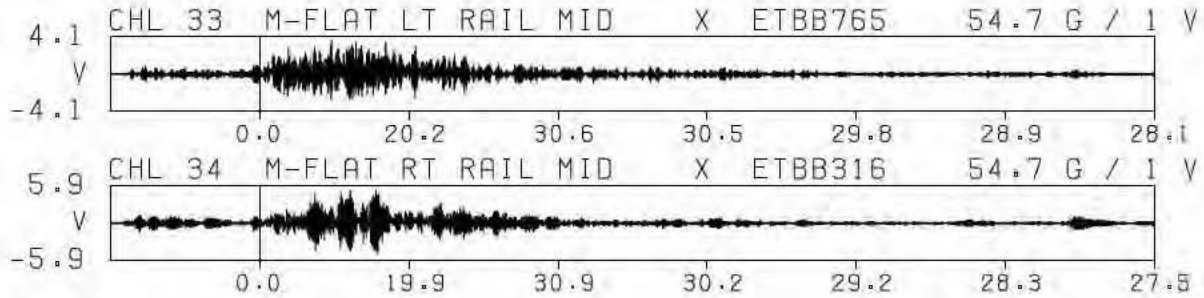
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TRANSDUCER SUMMARY REPORT

VC11439 48.3 KPH REAR (FULL) TYPE IV ITEM 4W [REDACTED]
05 KJ, USA 301-REAR DEVELOPMENT TEST
IMPACT ANALYSIS DEPT. 5320
FEB 6, 2004

DATA SET 02/06/04BC
ERRATA 1

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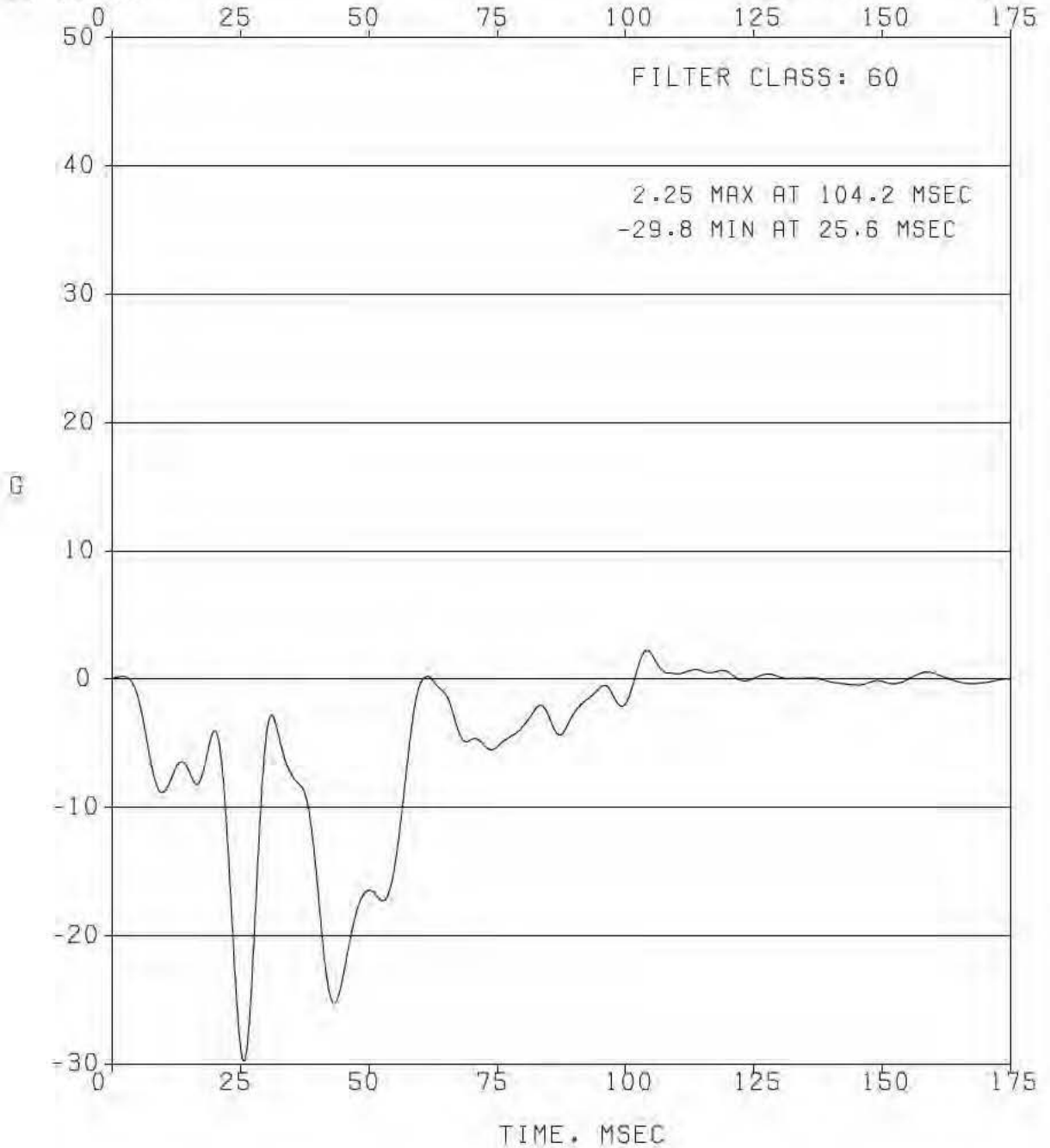
-50 0 50 100 150 200 250 300
TIME, MSEC

NOTE COMPUTED FIRST INTEGRAL VALUES ARE INDICATED BELOW
EACH CHANNEL AND BRIDGED DATA IS INDICATED BY A -B-.

VC11439 48.3 KPH REAR (FULL) TYPE IV ITEM 4W [REDACTED]
05 KJ, USA 301-REAR DEVELOPMENT TEST
AVERAGE OF

CHANNEL 001 LEFT FRONT SILL	X	P18177
CHANNEL 004 RIGHT FRONT SILL	X	P26922
CHANNEL 007 LEFT REAR SILL	X	ETBB754
CHANNEL 010 RIGHT REAR SILL	X	P23321

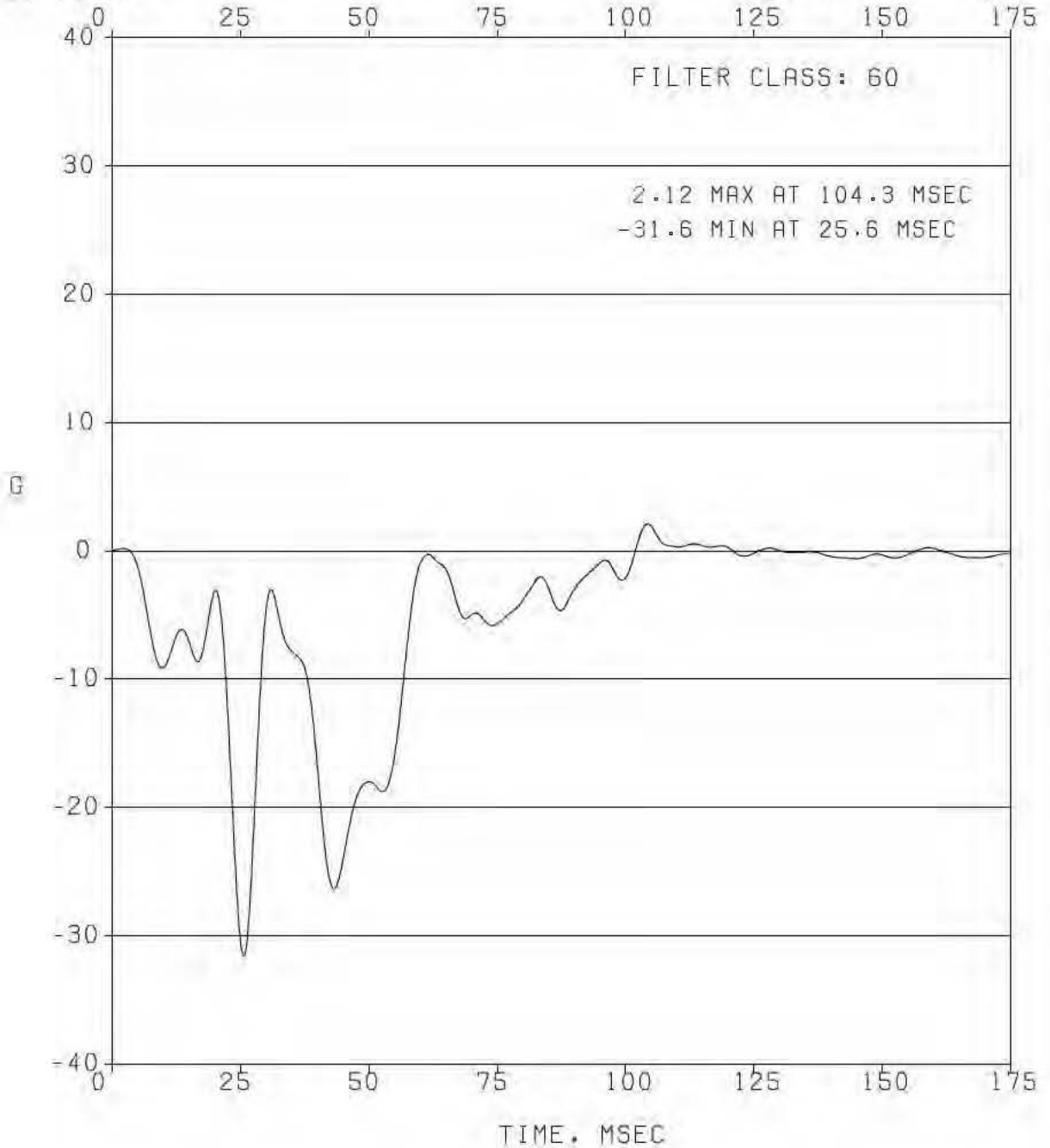
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IMPACT ANALYSIS DEPT. 5320 DATA SET 02/06/04BA
FEB 6.2004 ERRATA 1



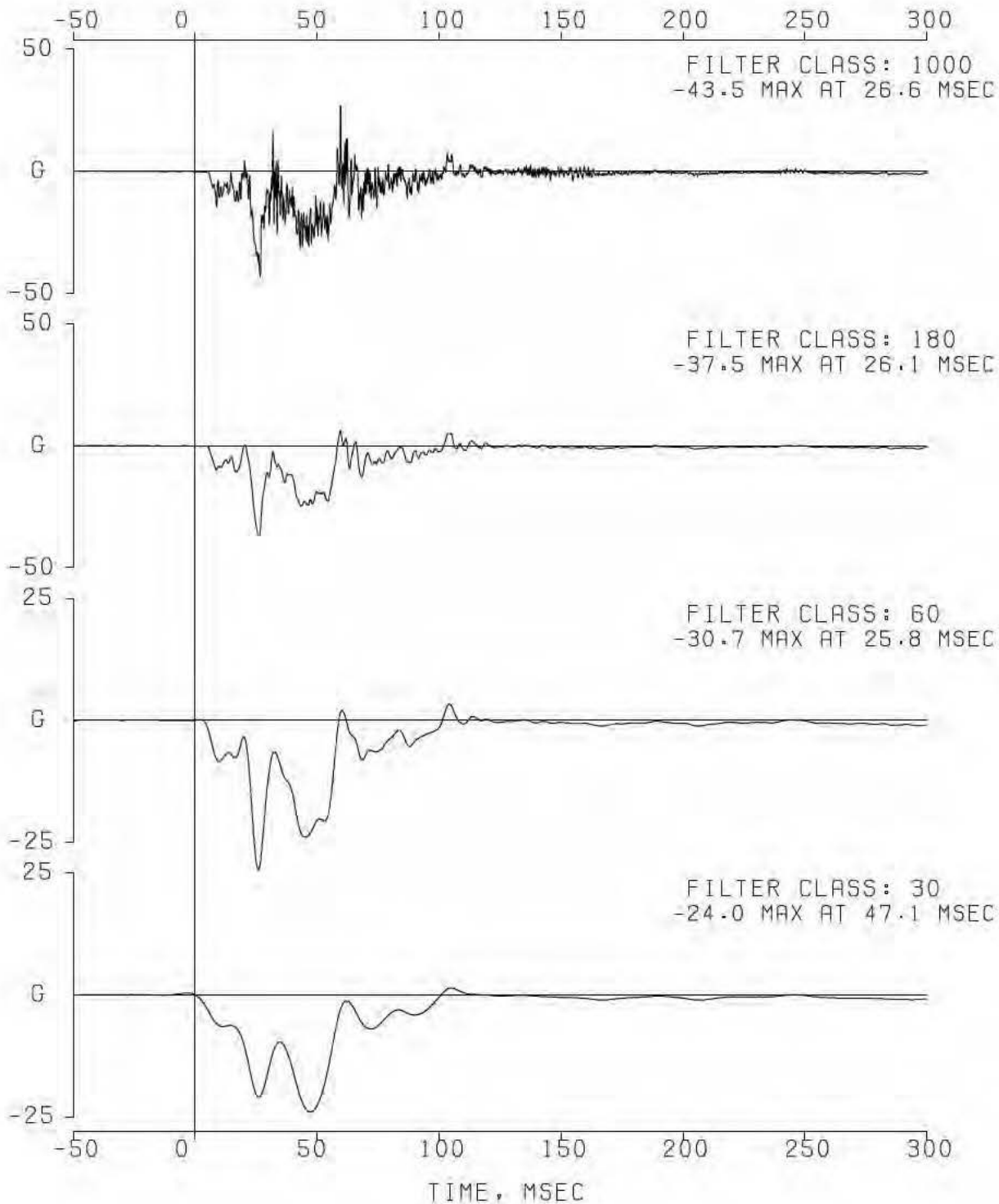
VC11439 48.3 KPH REAR (FULL) TYPE IV ITEM 4W [REDACTED]
05 KJ, USA 301-REAR DEVELOPMENT TEST
AVERAGE OF

CHANNEL 001 LEFT FRONT SILL X P18177
CHANNEL 004 RIGHT FRONT SILL X P26922

FILTER TYPE: PHASELESS, 4 POLE BUTTERWORTH, 2-PASS (99.0)
IMPACT ANALYSIS DEPT. 5320 DATA SET 02/06/04BA
FEB 6.2004 ERRATA 1



VC11439 48.3 KPH REAR (FULL) TYPE IV ITEM 4W [REDACTED]
05 KJ, USA 301-REAR DEVELOPMENT TEST
CHANNEL 001 LEFT FRONT SILL X P18177
FILTER TYPE: PHASELESS, DCX FFT 10K 4 POLE BUTTERWORTH, (1650.0)
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FEB 6, 2004 ERRATA 1

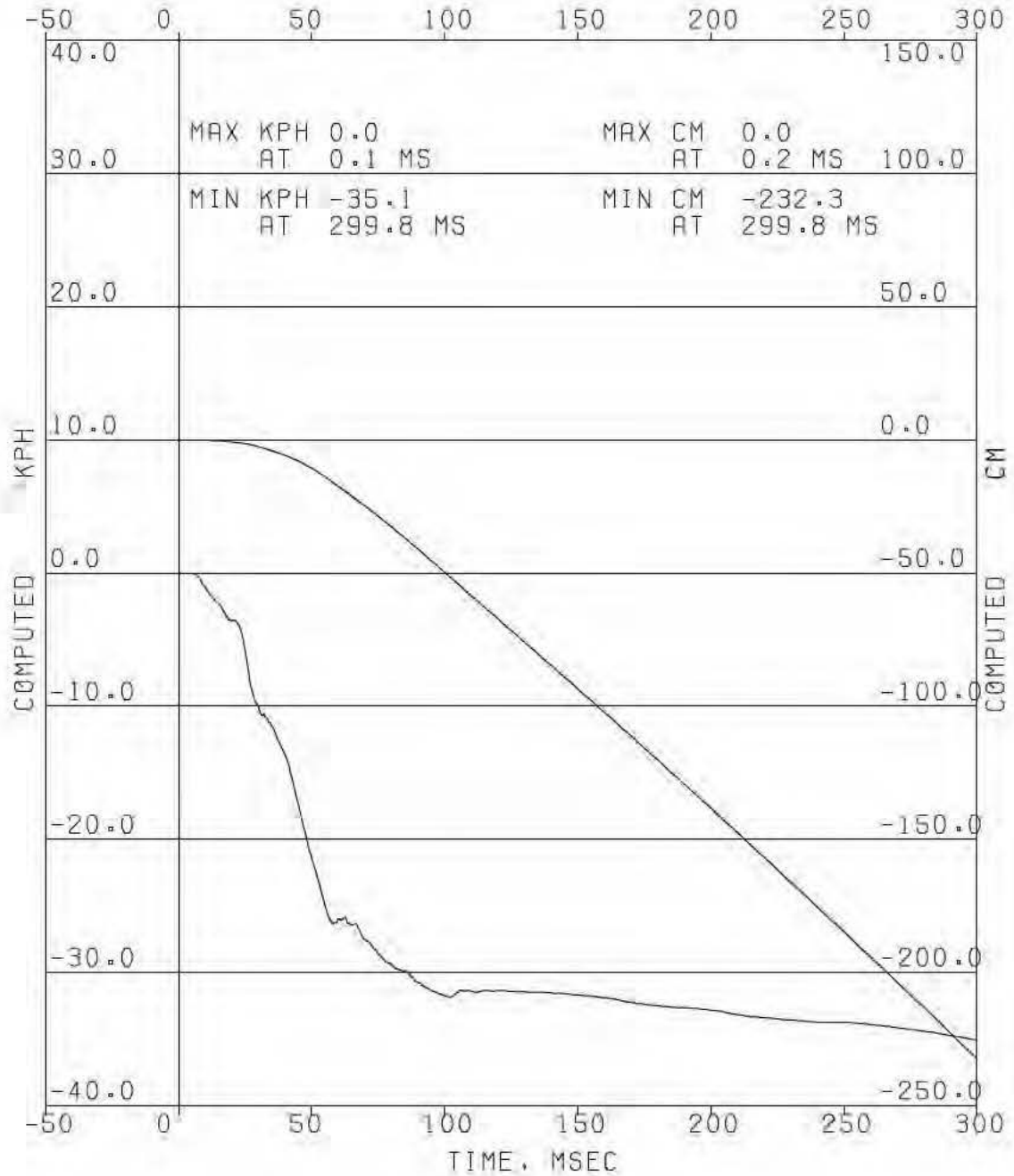


VC11439 48.3 KPH REAR (FULL) TYPE IV ITEM 4W [REDACTED]
05 KJ, USA 301-REAR DEVELOPMENT TEST
CHANNEL 001 LEFT FRONT SILL X P18177

FILTER TYPE: PHASELESS, DCX FFT 10K 4 POLE BUTTERWORTH, (1650.0)
FILTER CLASS: 1000

IMPACT ANALYSIS DEPT. 5320
FEB 6, 2004

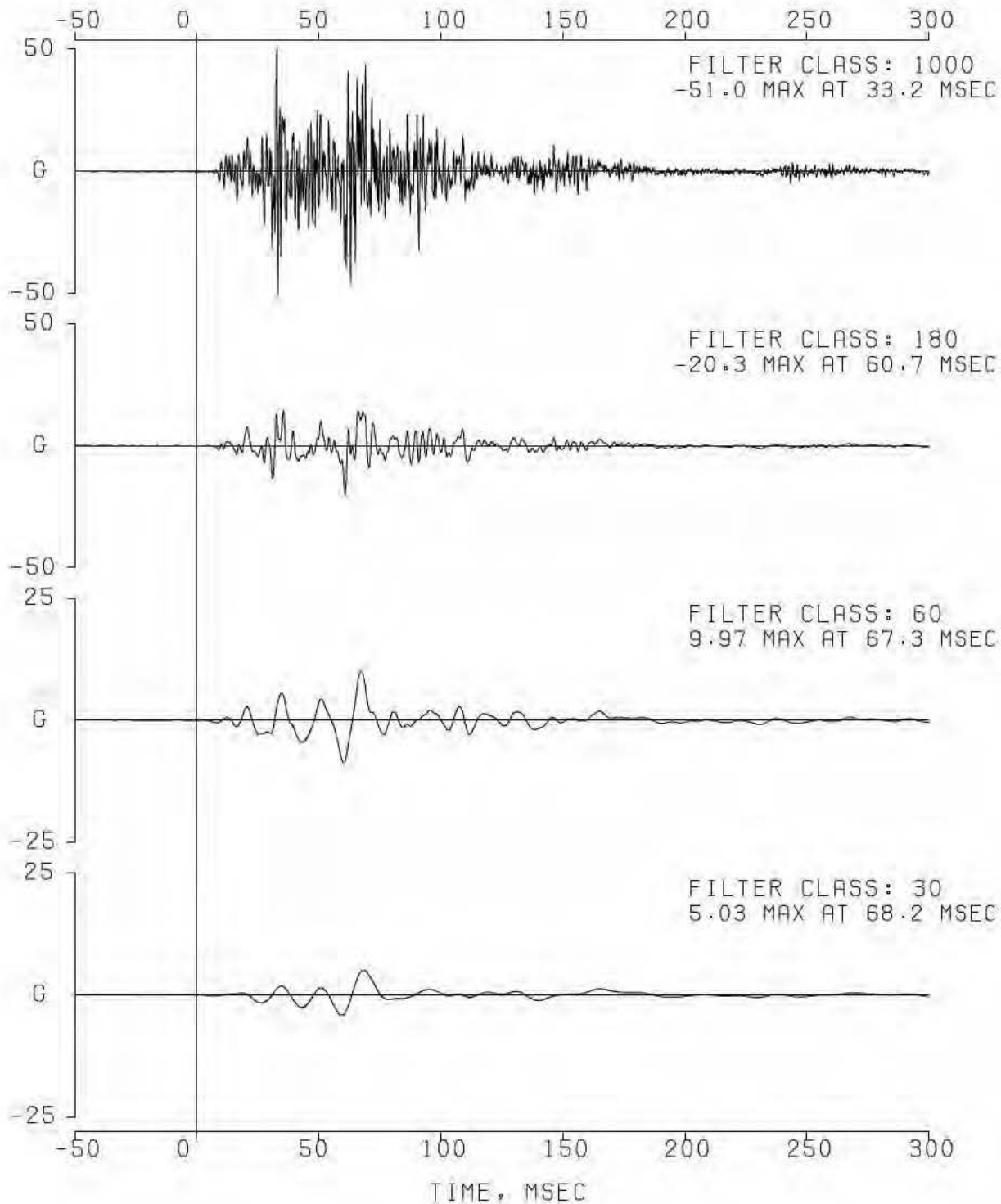
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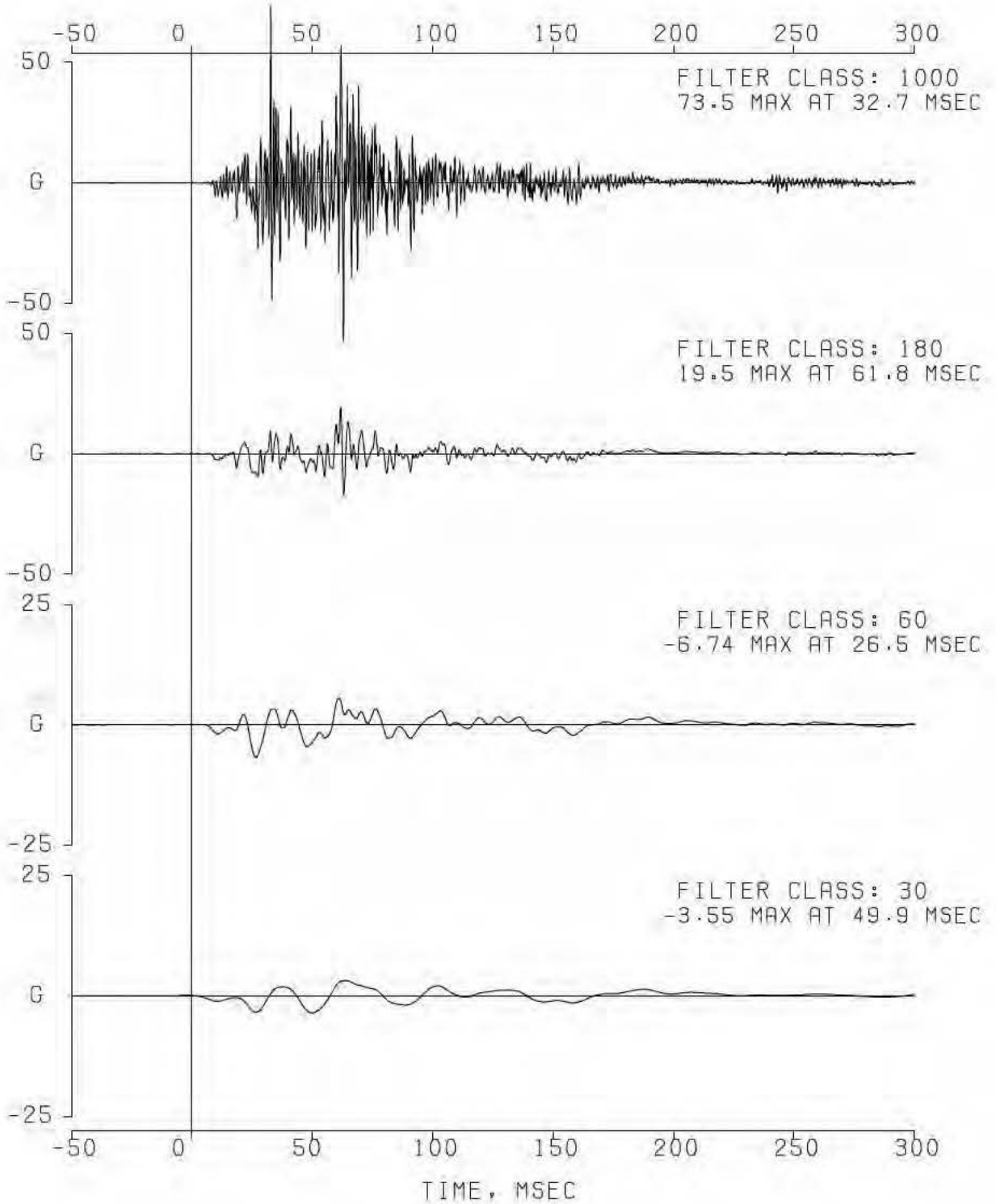
EA12-005- Chrysler -005575

COMPUTED KPH
COMPUTED CM

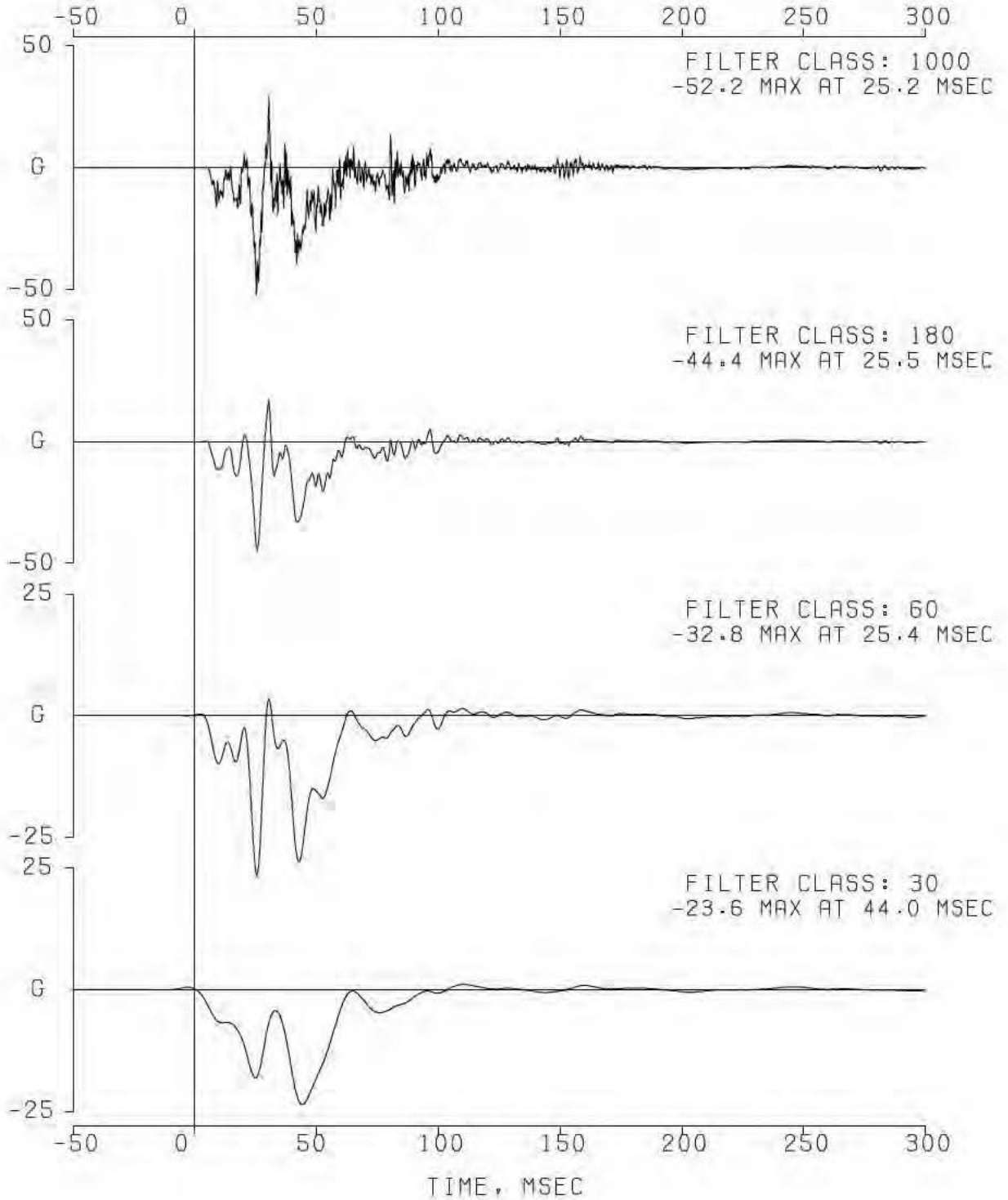
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CHANNEL 002 LEFT FRONT SILL Y P27119
FILTER TYPE: PHASELESS, DCX FFT 10K 4 POLE BUTTERWORTH, (1650.0)
IMPACT ANALYSIS DEPT. 5320 DATA SET 02/06/04BA
FEB 6, 2004 ERRATA 1



VC11439 48.3 KPH REAR (FULL) TYPE IV ITEM 4W [REDACTED]
05 KJ, USA 301-REAR DEVELOPMENT TEST
CHANNEL 003 LEFT FRONT SILL Z P16775
FILTER TYPE: PHASELESS, DCX FFT 10K 4 POLE BUTTERWORTH, (1650.0)
IMPACT ANALYSIS DEPT. 5320 DATA SET 02/06/04BA
FEB 6, 2004 ERRATA 1



VC11439 48.3 KPH REAR (FULL) TYPE IV ITEM 4W [REDACTED]
05 KJ, USA 301-REAR DEVELOPMENT TEST
CHANNEL 004 RIGHT FRONT SILL X P26922
FILTER TYPE: PHASELESS, DCX FFT 10K 4 POLE BUTTERWORTH, (1650.0)
IMPACT ANALYSIS DEPT. 5320 DATA SET 02/06/04BA
FEB 6, 2004 ERRATA 1

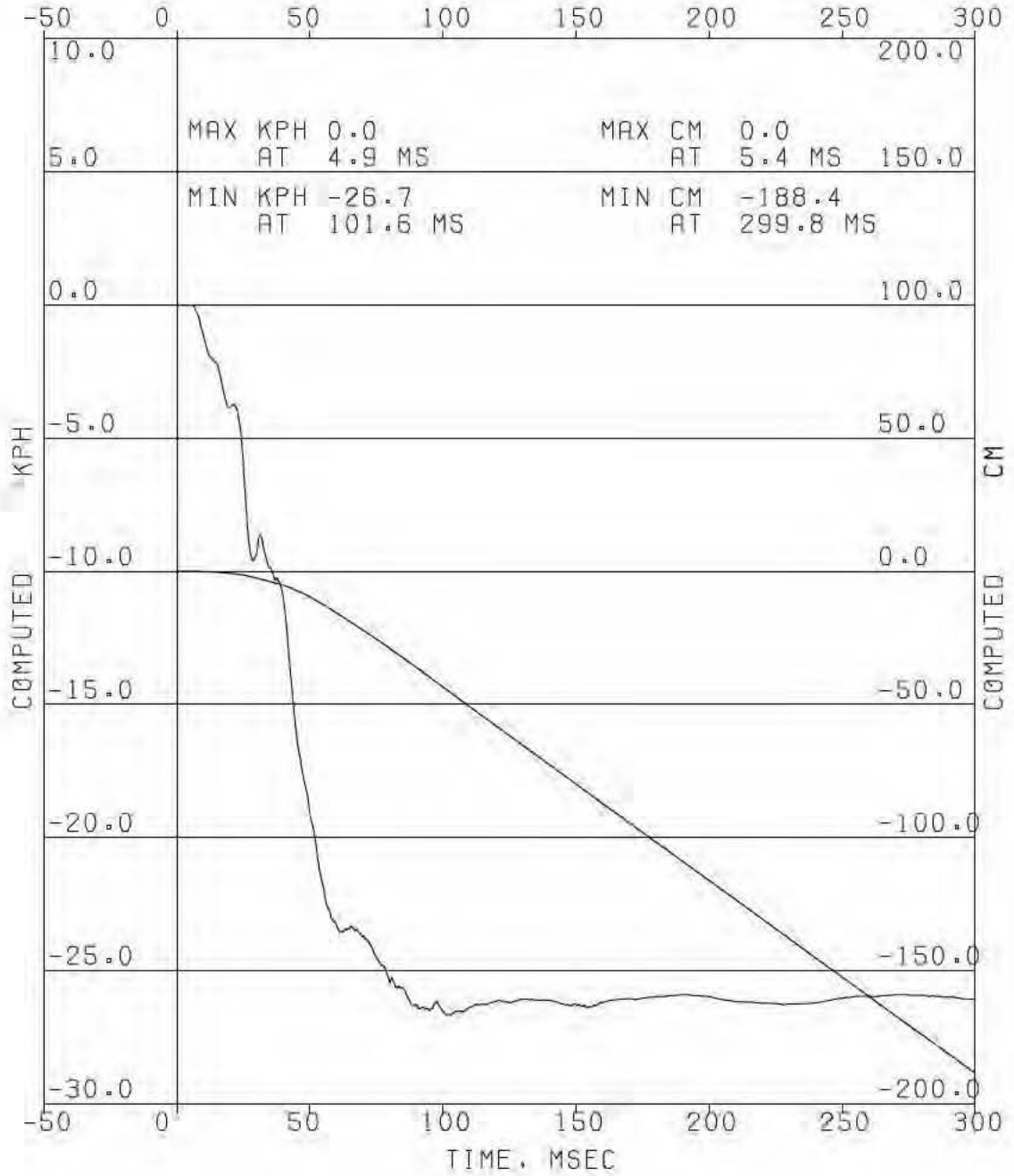


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05 KJ, USA 301-REAR DEVELOPMENT TEST
CHANNEL 004 RIGHT FRONT SILL X P26922

FILTER TYPE: PHASELESS, DCX FFT 10K 4 POLE BUTTERWORTH, (1650.0)
FILTER CLASS: 1000

IMPACT ANALYSIS DEPT. 5320
FEB 6, 2004

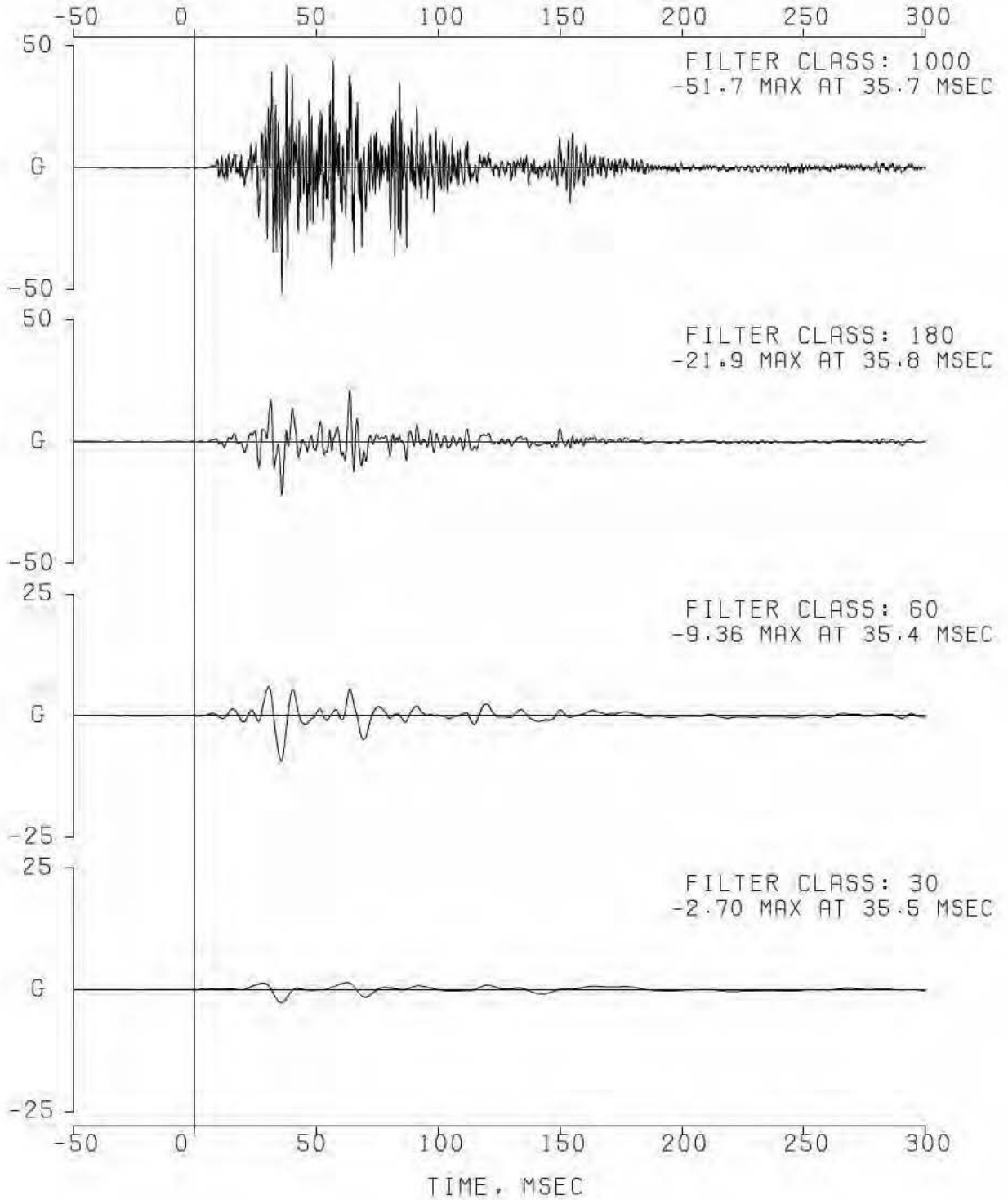
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ERRATA 1



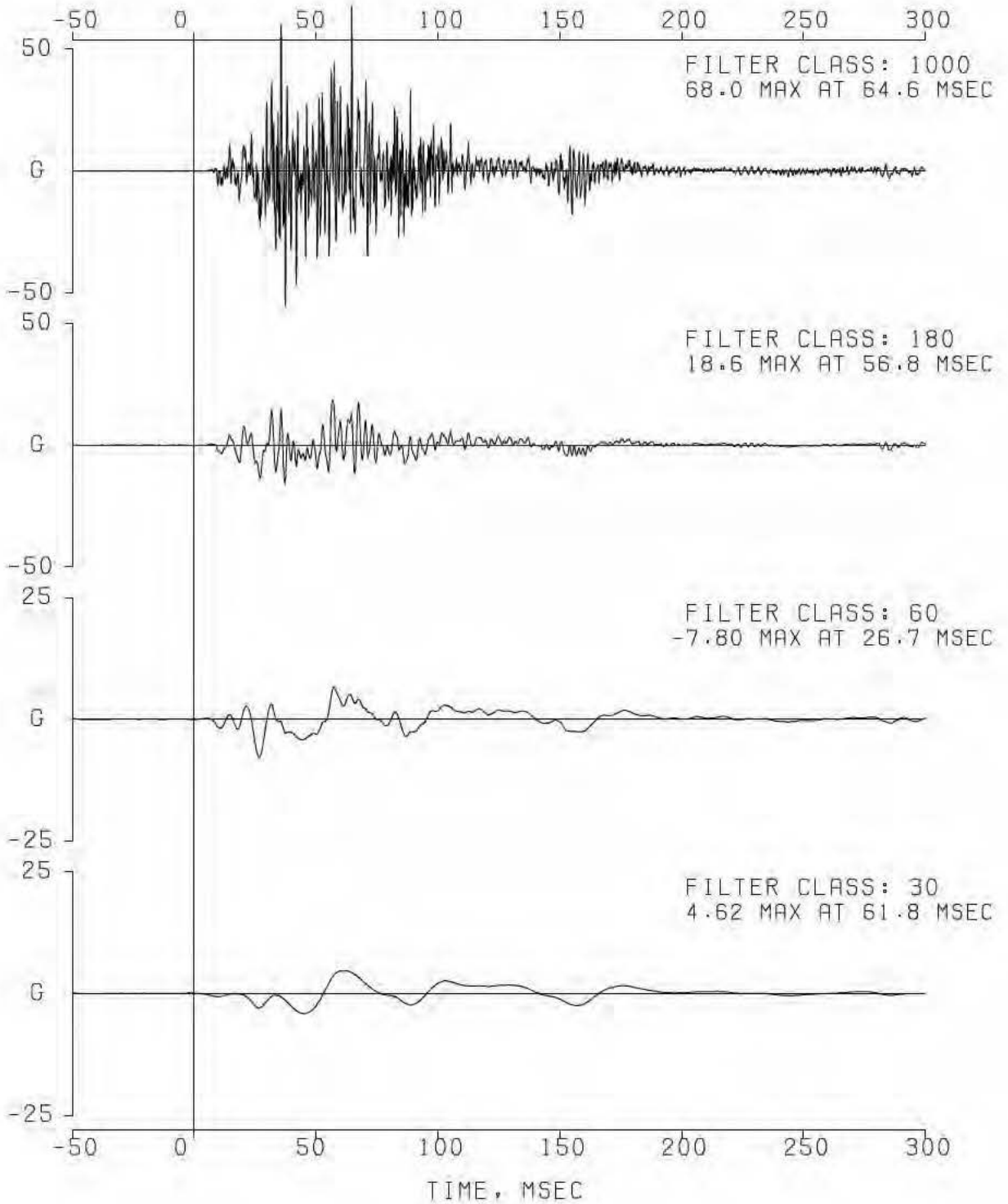
EA12-005- Chrysler -005579

COMPUTED KPH
COMPUTED CM

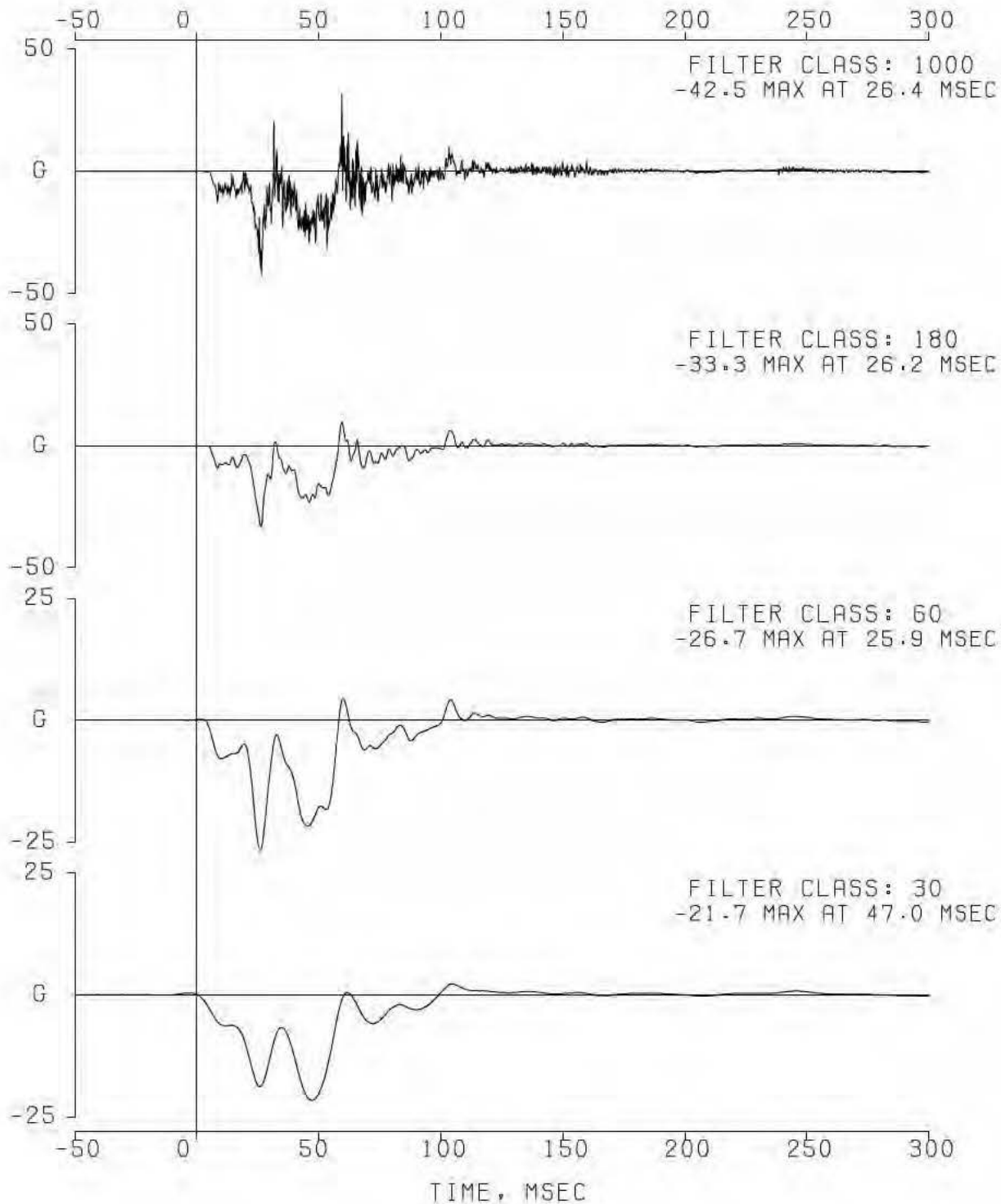
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CHANNEL 005 RIGHT FRONT SILL Y P26845
FILTER TYPE: PHASELESS, DCX FFT 10K 4 POLE BUTTERWORTH, (1650.0)
IMPACT ANALYSIS DEPT. 5320 DATA SET 02/06/04BA
FEB 6, 2004 ERRATA 1



VC11439 48.3 KPH REAR (FULL) TYPE IV ITEM 4W [REDACTED]
05 KJ, USA 301-REAR DEVELOPMENT TEST
CHANNEL 006 RIGHT FRONT SILL Z P26839
FILTER TYPE: PHASELESS, DCX FFT 10K 4 POLE BUTTERWORTH, (1650.0)
IMPACT ANALYSIS DEPT. 5320 DATA SET 02/06/04BA
FEB 6, 2004 ERRATA 1



VC11439 48.3 KPH REAR (FULL) TYPE IV ITEM 4W [REDACTED]
05 KJ, USA 301-REAR DEVELOPMENT TEST
CHANNEL 007 LEFT REAR SILL X ETBB754
FILTER TYPE: PHASELESS, DCX FFT 10K 4 POLE BUTTERWORTH, (1650.0)
IMPACT ANALYSIS DEPT. 5320 DATA SET 02/06/04BA
FEB 5, 2004 ERRATA 1

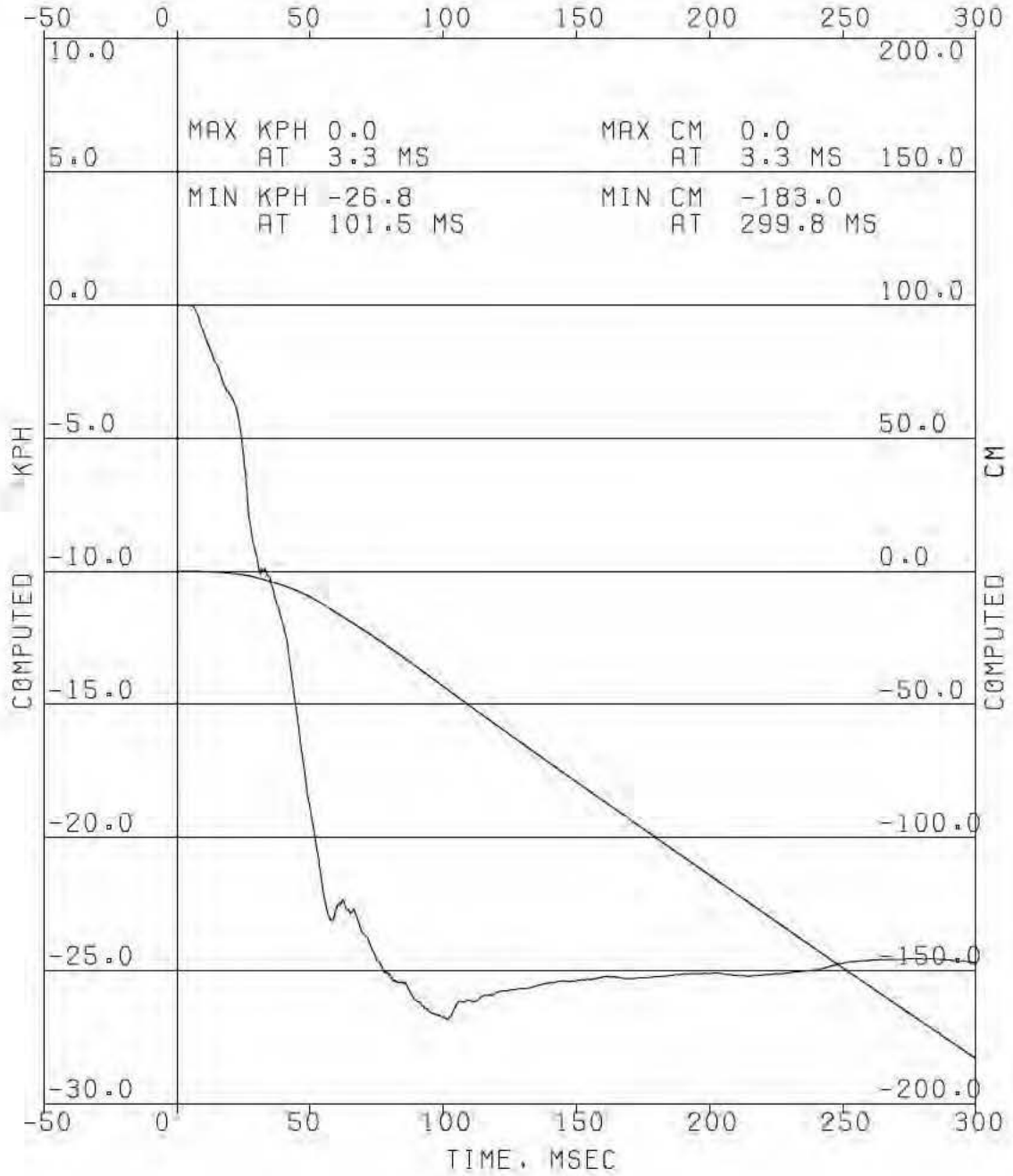


VC11439 48.3 KPH REAR (FULL) TYPE IV ITEM 4W [REDACTED]
05 KJ, USA 301-REAR DEVELOPMENT TEST
CHANNEL 007 LEFT REAR SILL X ETBB754

FILTER TYPE: PHASELESS, DCX FFT 10K 4 POLE BUTTERWORTH, (1650.0)
FILTER CLASS: 1000

IMPACT ANALYSIS DEPT. 5320
FEB 6, 2004

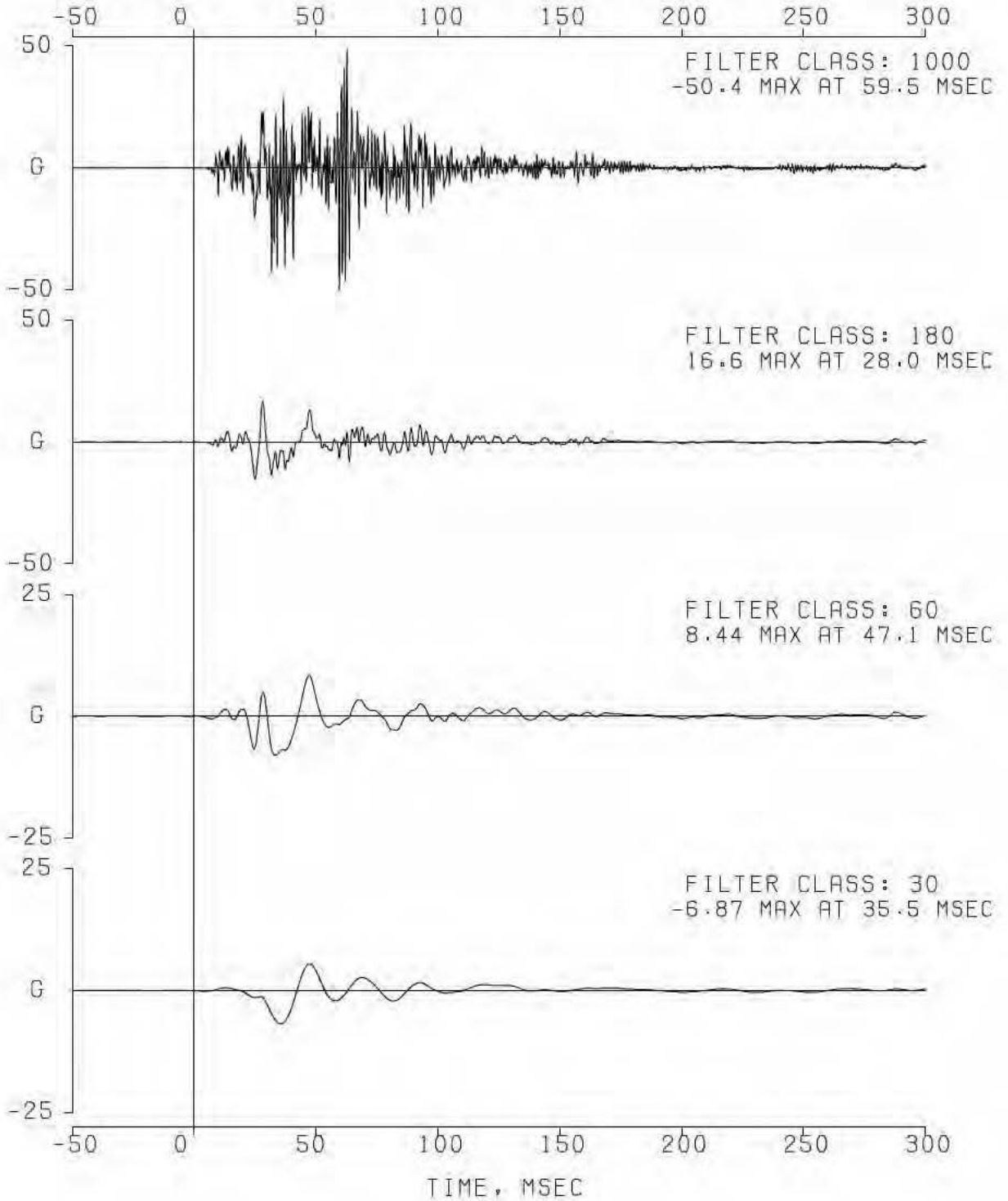
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ERRATA 1



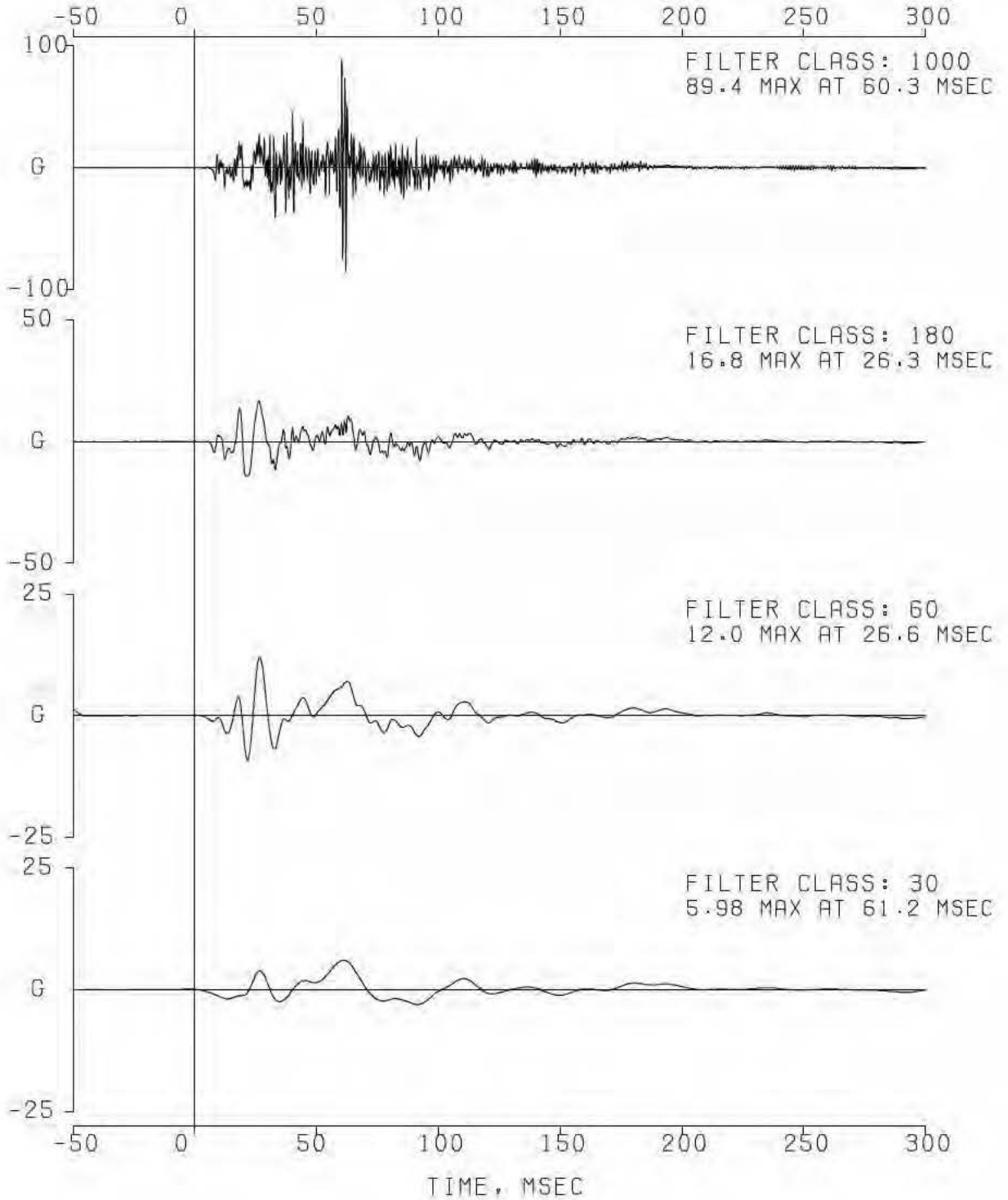
EA12-005- Chrysler -005583

COMPUTED KPH
COMPUTED CM

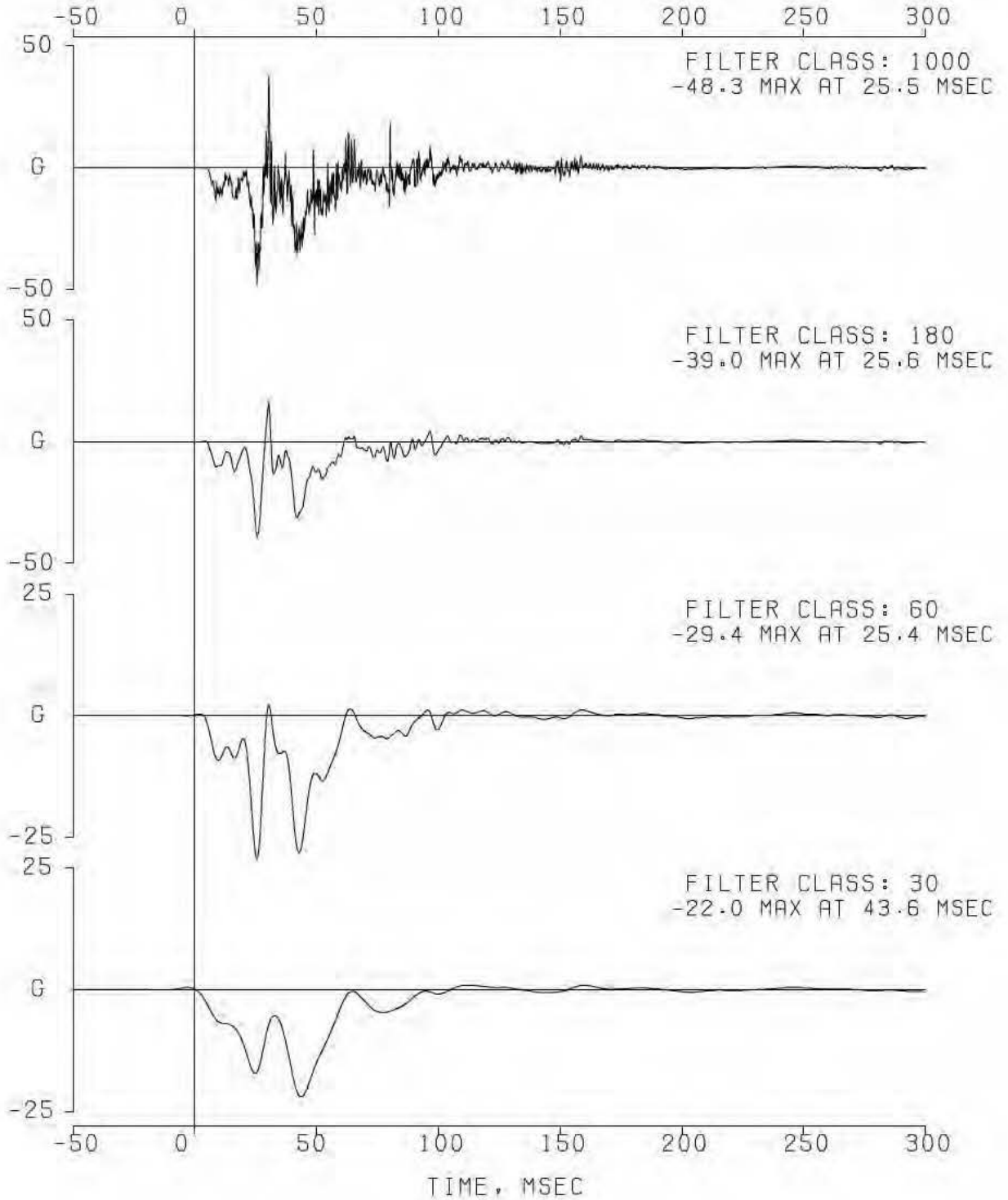
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05 KJ, USA 301-REAR DEVELOPMENT TEST
CHANNEL 008 LEFT REAR SILL Y ETBB319
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IMPACT ANALYSIS DEPT. 5320 DATA SET 02/06/04BA
FEB 6, 2004 ERRATA 1



VC11439 48.3 KPH REAR (FULL) TYPE IV ITEM 4W [REDACTED]
05 KJ, USA 301-REAR DEVELOPMENT TEST
CHANNEL 009 LEFT REAR SILL Z ETBB717
FILTER TYPE: PHASELESS, DCX FFT 10K 4 POLE BUTTERWORTH, (1650.0)
IMPACT ANALYSIS DEPT. 5320 DATA SET 02/06/04BA
FEB 6, 2004 ERRATA 1



VC11439 48.3 KPH REAR (FULL) TYPE IV ITEM 4W [REDACTED]
05 KJ, USA 301-REAR DEVELOPMENT TEST
CHANNEL 010 RIGHT REAR SILL X P23321
FILTER TYPE: PHASELESS, DCX FFT 10K 4 POLE BUTTERWORTH, (1650.0)
IMPACT ANALYSIS DEPT. 5320 DATA SET 02/06/04BA
FEB 6, 2004 ERRATA 1

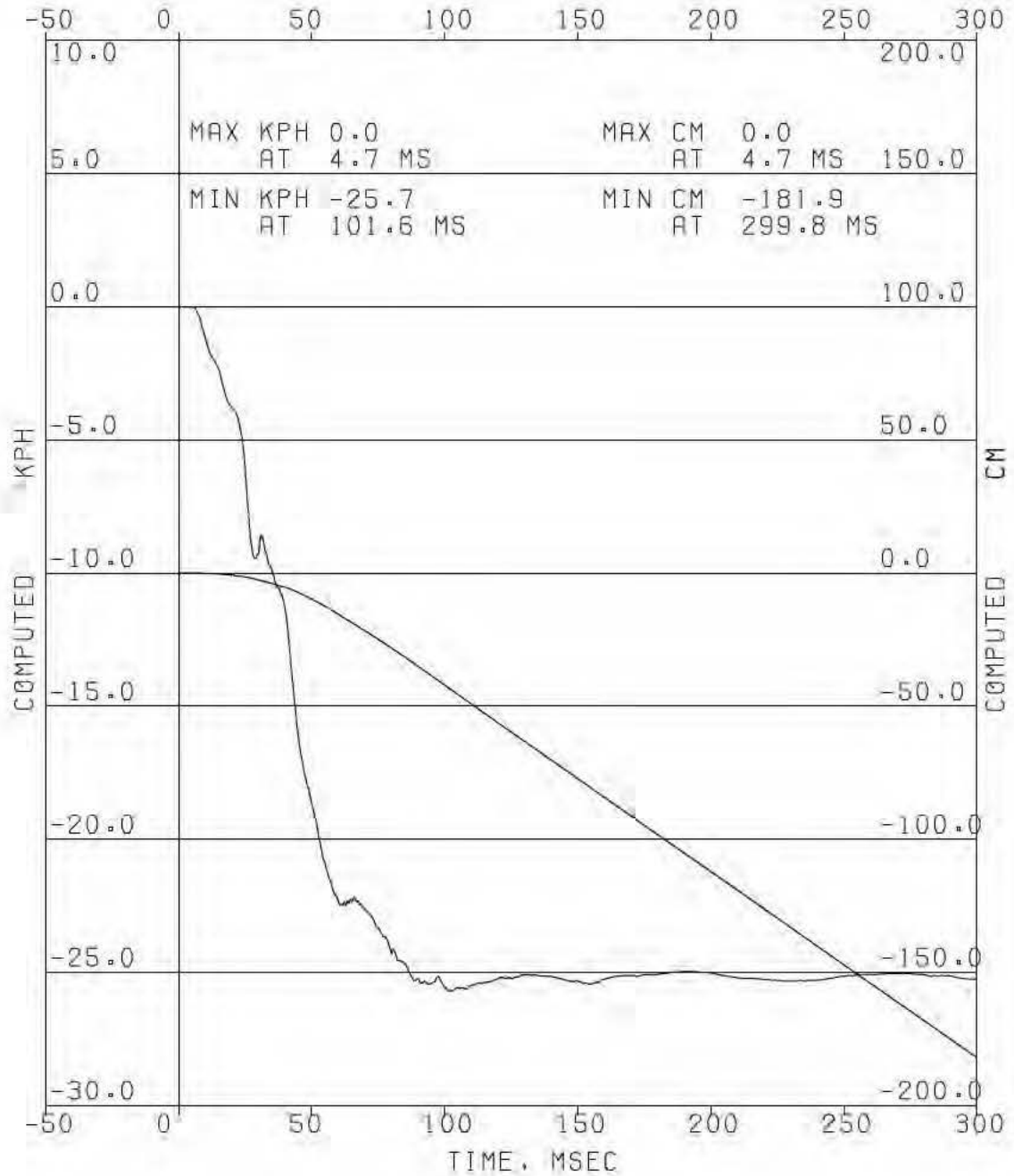


VC11439 48.3 KPH REAR (FULL) TYPE IV ITEM 4W [REDACTED]
05 KJ, USA 301-REAR DEVELOPMENT TEST
CHANNEL 010 RIGHT REAR SILL X P23321

FILTER TYPE: PHASELESS, DCX FFT 10K 4 POLE BUTTERWORTH, (1650.0)
FILTER CLASS: 1000

IMPACT ANALYSIS DEPT. 5320
FEB 6, 2004

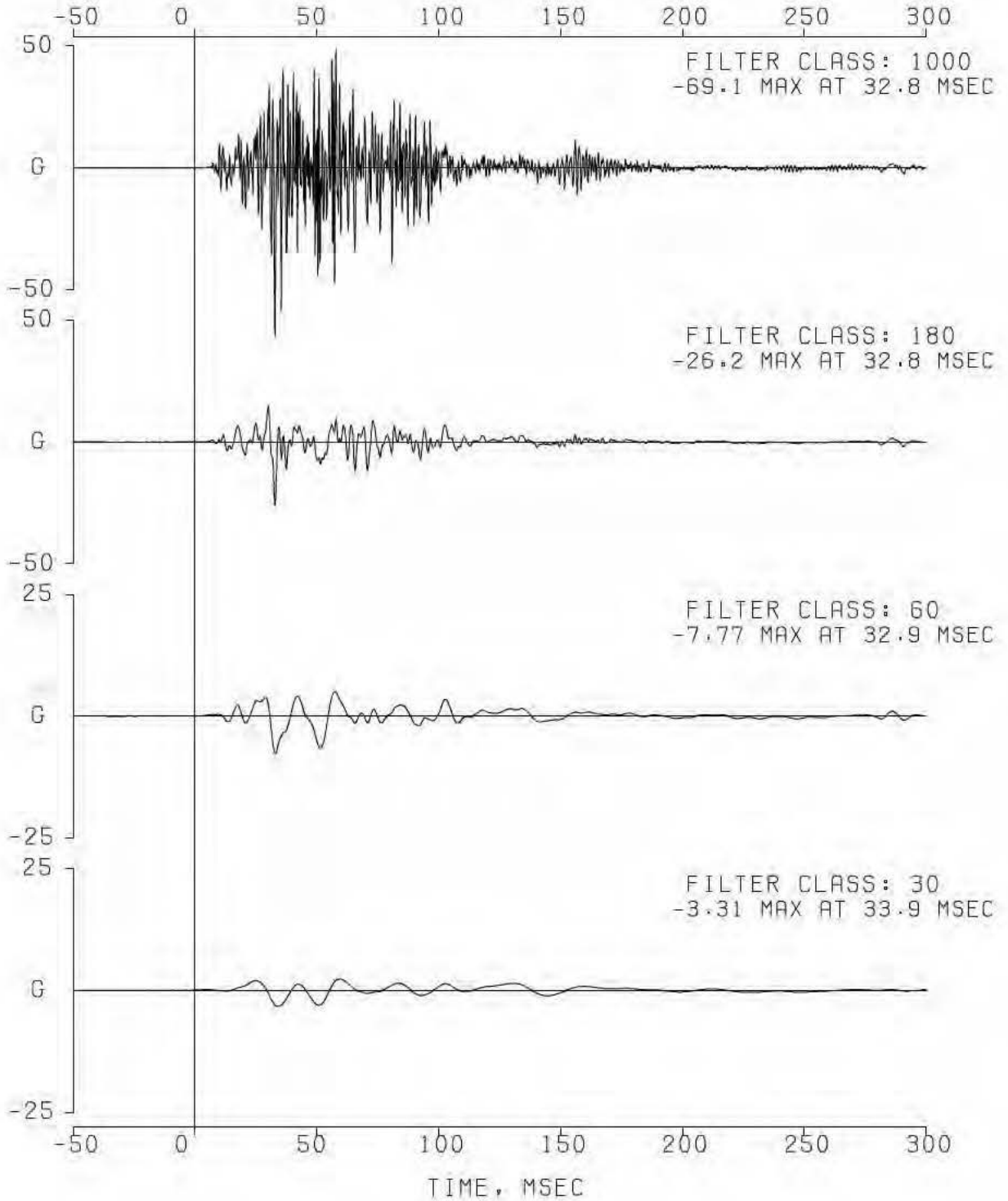
DATA SET 02/06/04BA
ERRATA 1



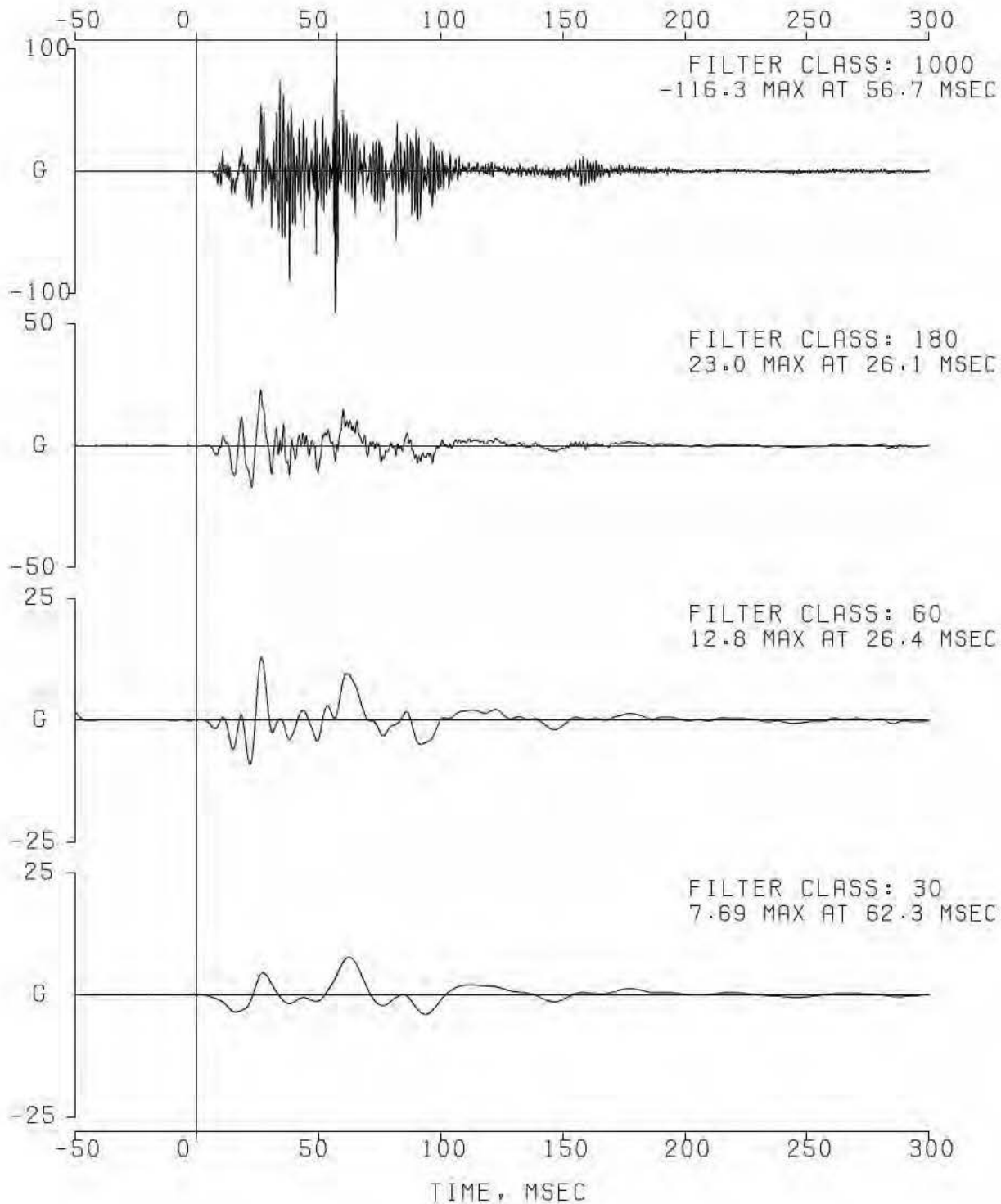
EA12-005- Chrysler -005587

COMPUTED KPH
COMPUTED CM

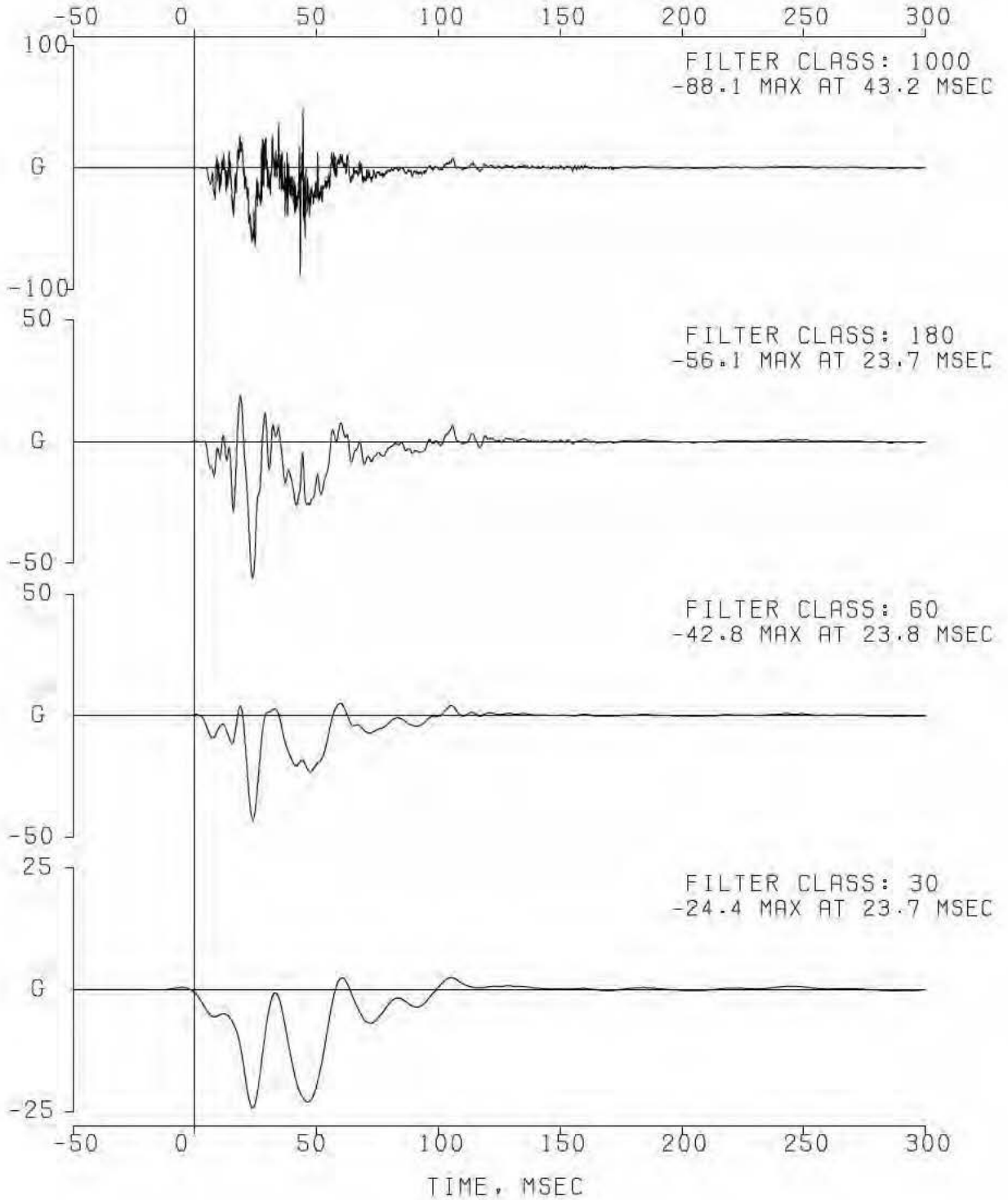
VC11439 48.3 KPH REAR (FULL) TYPE IV ITEM 4W [REDACTED]
05 KJ, USA 301-REAR DEVELOPMENT TEST
CHANNEL 011 RIGHT REAR SILL Y P16172
FILTER TYPE: PHASELESS, DCX FFT 10K 4 POLE BUTTERWORTH, (1650.0)
IMPACT ANALYSIS DEPT. 5320 DATA SET 02/06/04BA
FEB 6, 2004 ERRATA 1



VC11439 48.3 KPH REAR (FULL) TYPE IV ITEM 4W [REDACTED]
05 KJ, USA 301-REAR DEVELOPMENT TEST
CHANNEL 012 RIGHT REAR SILL Z P18599
FILTER TYPE: PHASELESS, DCX FFT 10K 4 POLE BUTTERWORTH, (1650.0)
IMPACT ANALYSIS DEPT. 5320 DATA SET 02/06/04BA
FEB 6, 2004 ERRATA 1



VC11439 48.3 KPH REAR (FULL) TYPE IV ITEM 4W [REDACTED]
05 KJ, USA 301-REAR DEVELOPMENT TEST
CHANNEL 013 LEFT RAIL MID TANK X P24019
FILTER TYPE: PHASELESS, DCX FFT 10K 4 POLE BUTTERWORTH, (1650.0)
IMPACT ANALYSIS DEPT. 5320 DATA SET 02/06/04BA
FEB 6, 2004 ERRATA 1



VC11439 48.3 KPH REAR (FULL) TYPE IV ITEM 4W [REDACTED]
05 KJ, USA 301-REAR DEVELOPMENT TEST
CHANNEL 013 LEFT RAIL MID TANK X P24019

FILTER TYPE: PHASELESS, DCX FFT 10K 4 POLE BUTTERWORTH, (1650.0)
FILTER CLASS: 1000

IMPACT ANALYSIS DEPT. 5320
FEB 6, 2004

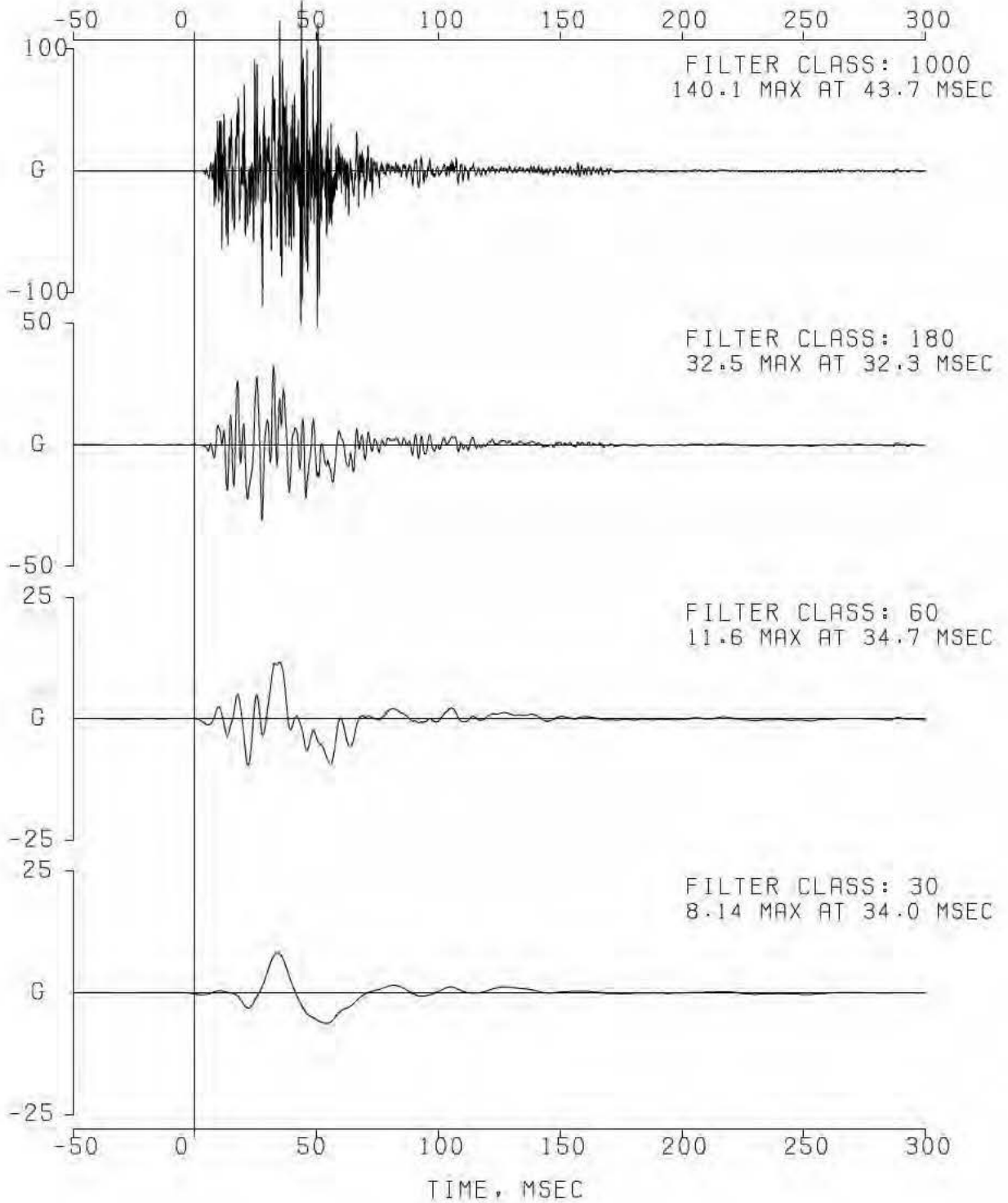
DATA SET 02/06/04BA
ERRATA 1



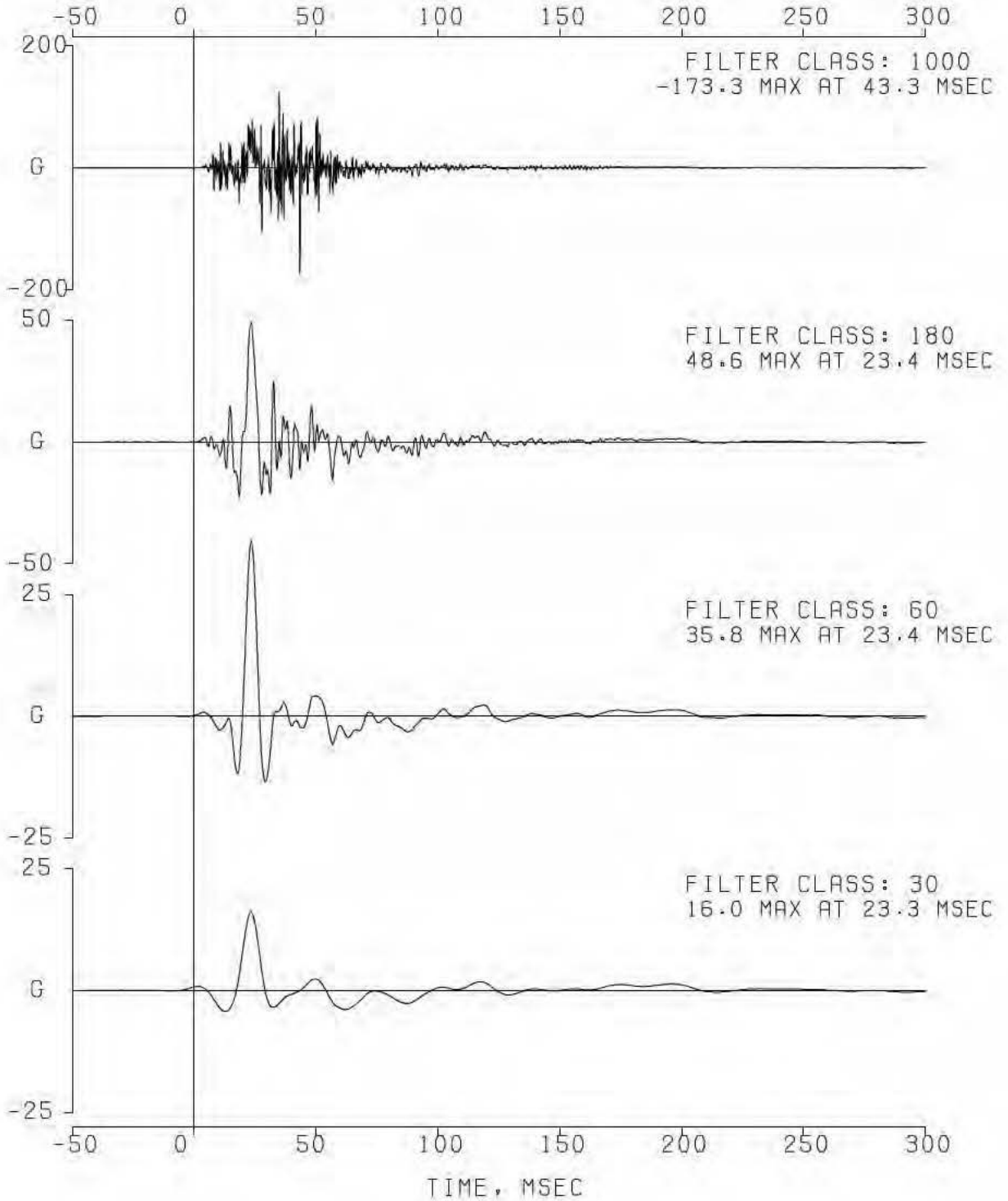
EA12-005- Chrysler -005591

COMPUTED KPH
COMPUTED CM

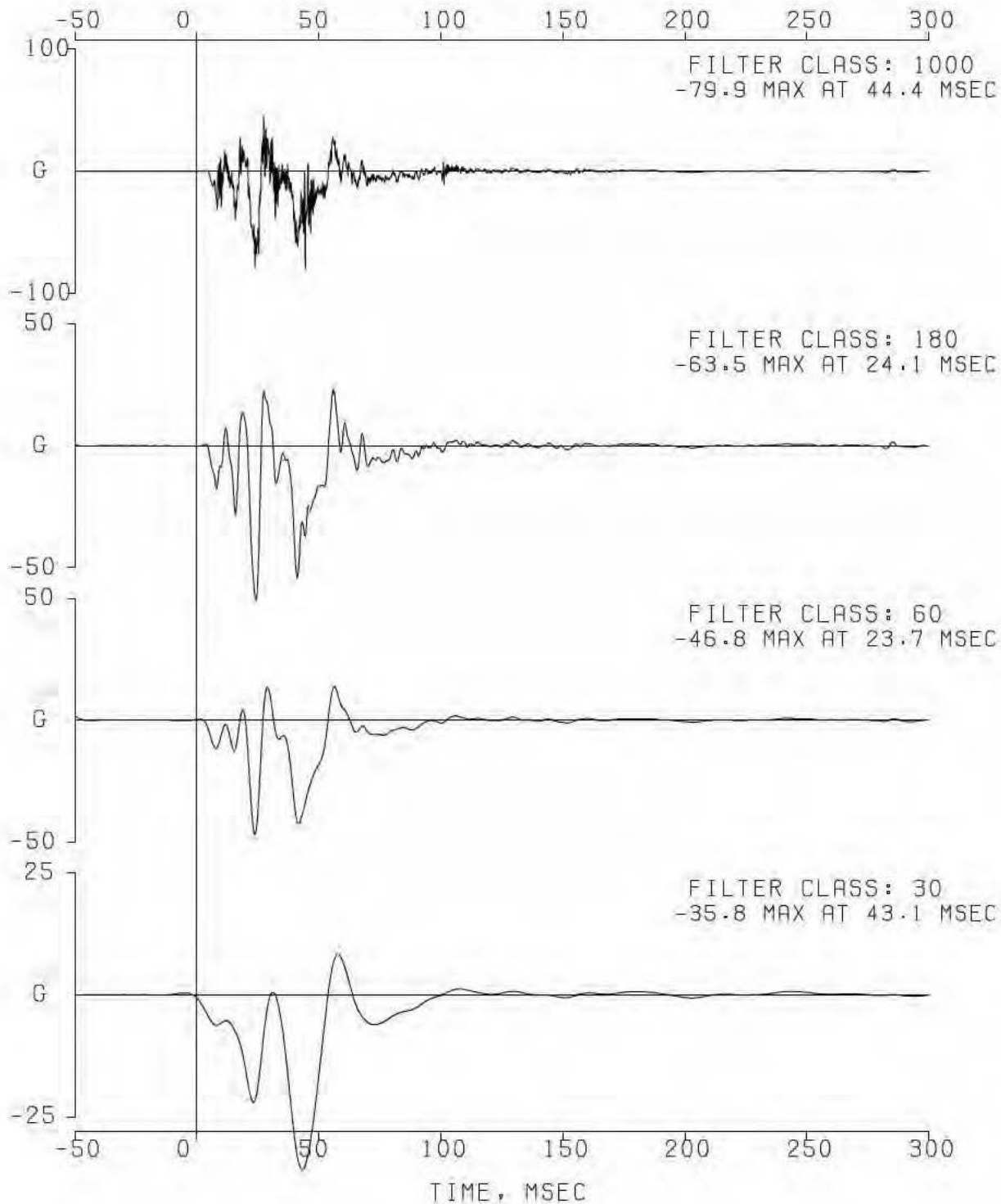
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05 KJ, USA 301-REAR DEVELOPMENT TEST
CHANNEL 014 LEFT RAIL MID TANK Y P19939
FILTER TYPE: PHASELESS, DCX FFT 10K 4 POLE BUTTERWORTH, (1650.0)
IMPACT ANALYSIS DEPT. 5320 DATA SET 02/06/04BA
FEB 6, 2004 ERRATA 1



VC11439 48.3 KPH REAR (FULL) TYPE IV ITEM 4W [REDACTED]
05 KJ, USA 301-REAR DEVELOPMENT TEST
CHANNEL 015 LEFT RAIL MID TANK Z P17252
FILTER TYPE: PHASELESS, DCX FFT 10K 4 POLE BUTTERWORTH, (1650.0)
IMPACT ANALYSIS DEPT. 5320 DATA SET 02/06/04BA
FEB 6, 2004 ERRATA 1



VC11439 48.3 KPH REAR (FULL) TYPE IV ITEM 4W [REDACTED]
05 KJ, USA 301-REAR DEVELOPMENT TEST
CHANNEL 016 RIGHT RAIL MID TANK X P14389
FILTER TYPE: PHASELESS, DCX FFT 10K 4 POLE BUTTERWORTH, (1650.0)
IMPACT ANALYSIS DEPT. 5320 DATA SET 02/06/04BA
FEB 6, 2004 ERRATA 1



VC11439 48.3 KPH REAR (FULL) TYPE IV ITEM 4W [REDACTED]
05 KJ, USA 301-REAR DEVELOPMENT TEST
CHANNEL 016 RIGHT RAIL MID TANK X P14389

FILTER TYPE: PHASELESS, DCX FFT 10K 4 POLE BUTTERWORTH, (1650.0)
FILTER CLASS: 1000

IMPACT ANALYSIS DEPT. 5320
FEB 6, 2004

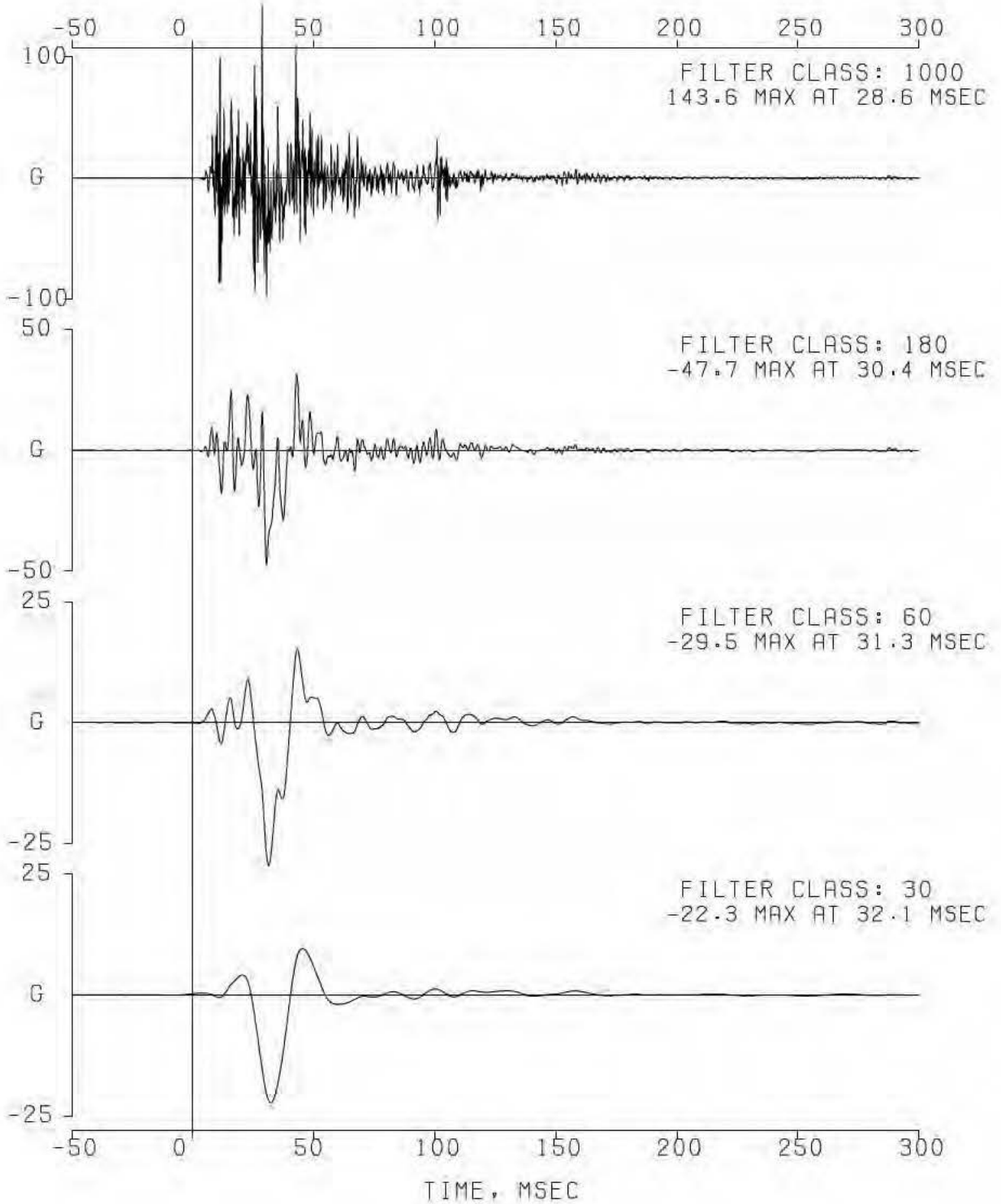
DATA SET 02/06/04BA
ERRATA 1



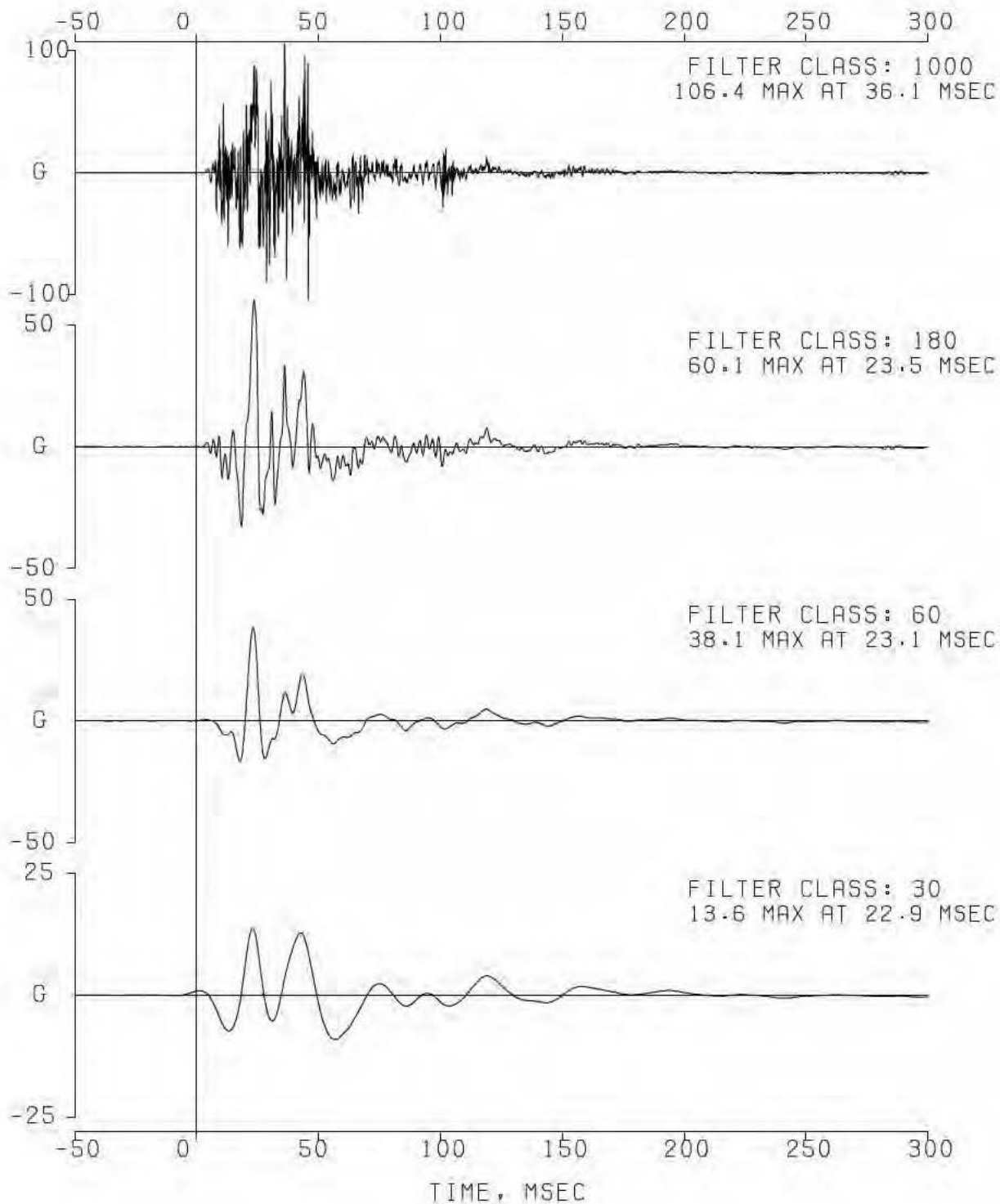
EA12-005- Chrysler -005595

COMPUTED KPH
COMPUTED CM

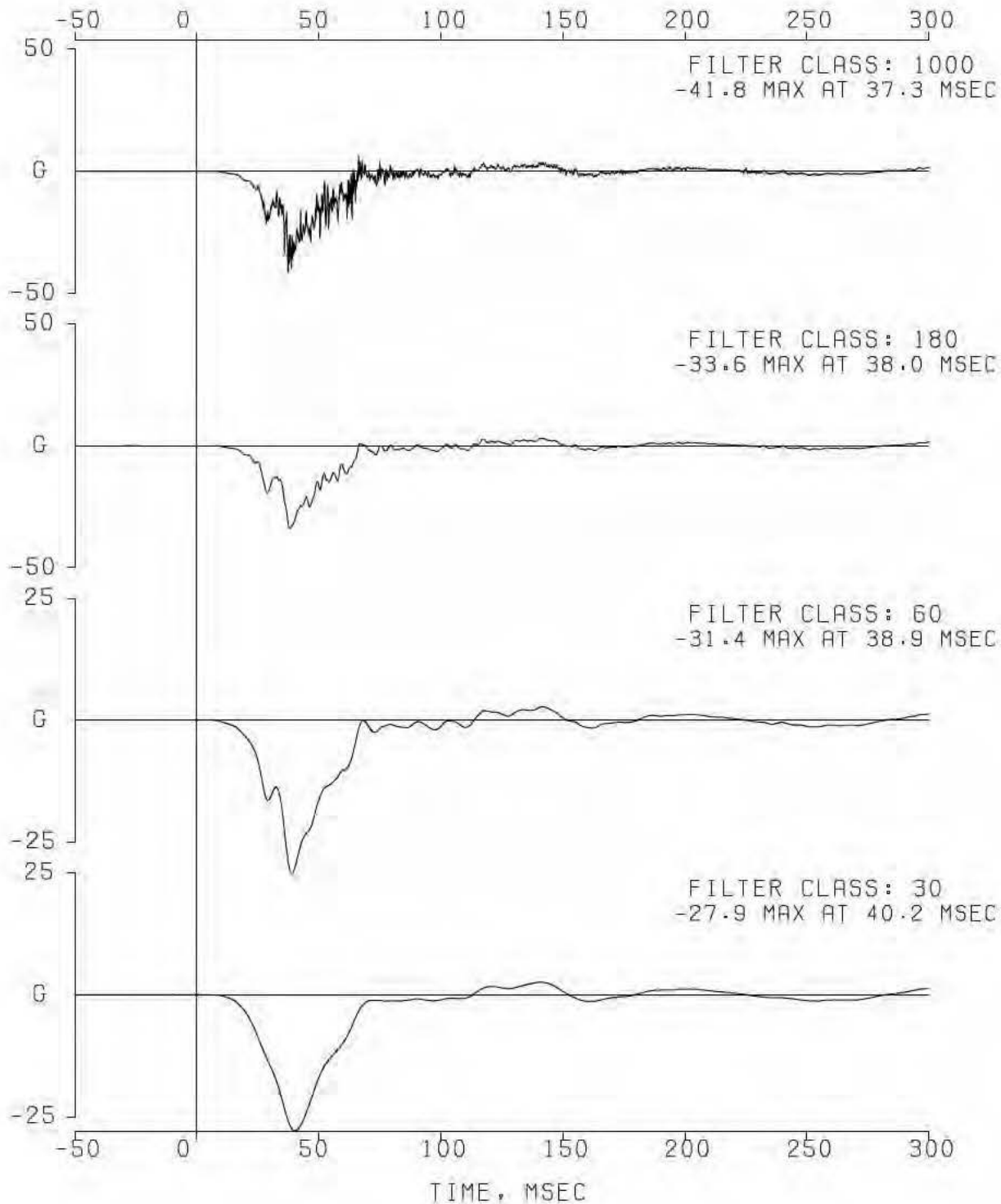
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05 KJ, USA 301-REAR DEVELOPMENT TEST
CHANNEL 017 RIGHT RAIL MID TANK Y P27155
FILTER TYPE: PHASELESS, DCX FFT 10K 4 POLE BUTTERWORTH, (1650.0)
IMPACT ANALYSIS DEPT. 5320 DATA SET 02/06/04BB
FEB 6, 2004 ERRATA 1



VC11439 48.3 KPH REAR (FULL) TYPE IV ITEM 4W [REDACTED]
05 KJ, USA 301-REAR DEVELOPMENT TEST
CHANNEL 018 RIGHT RAIL MID TANK Z P14235
FILTER TYPE: PHASELESS, DCX FFT 10K 4 POLE BUTTERWORTH, (1650.0)
IMPACT ANALYSIS DEPT. 5320 DATA SET 02/06/04BB
FEB 6, 2004 ERRATA 1



VC11439 48.3 KPH REAR (FULL) TYPE IV ITEM 4W [REDACTED]
05 KJ, USA 301-REAR DEVELOPMENT TEST
CHANNEL 019 ENGINE BOTTOM X P19672
FILTER TYPE: PHASELESS, DCX FFT 10K 4 POLE BUTTERWORTH, (1650.0)
IMPACT ANALYSIS DEPT. 5320 DATA SET 02/06/04BB
FEB 6, 2004 ERRATA 1

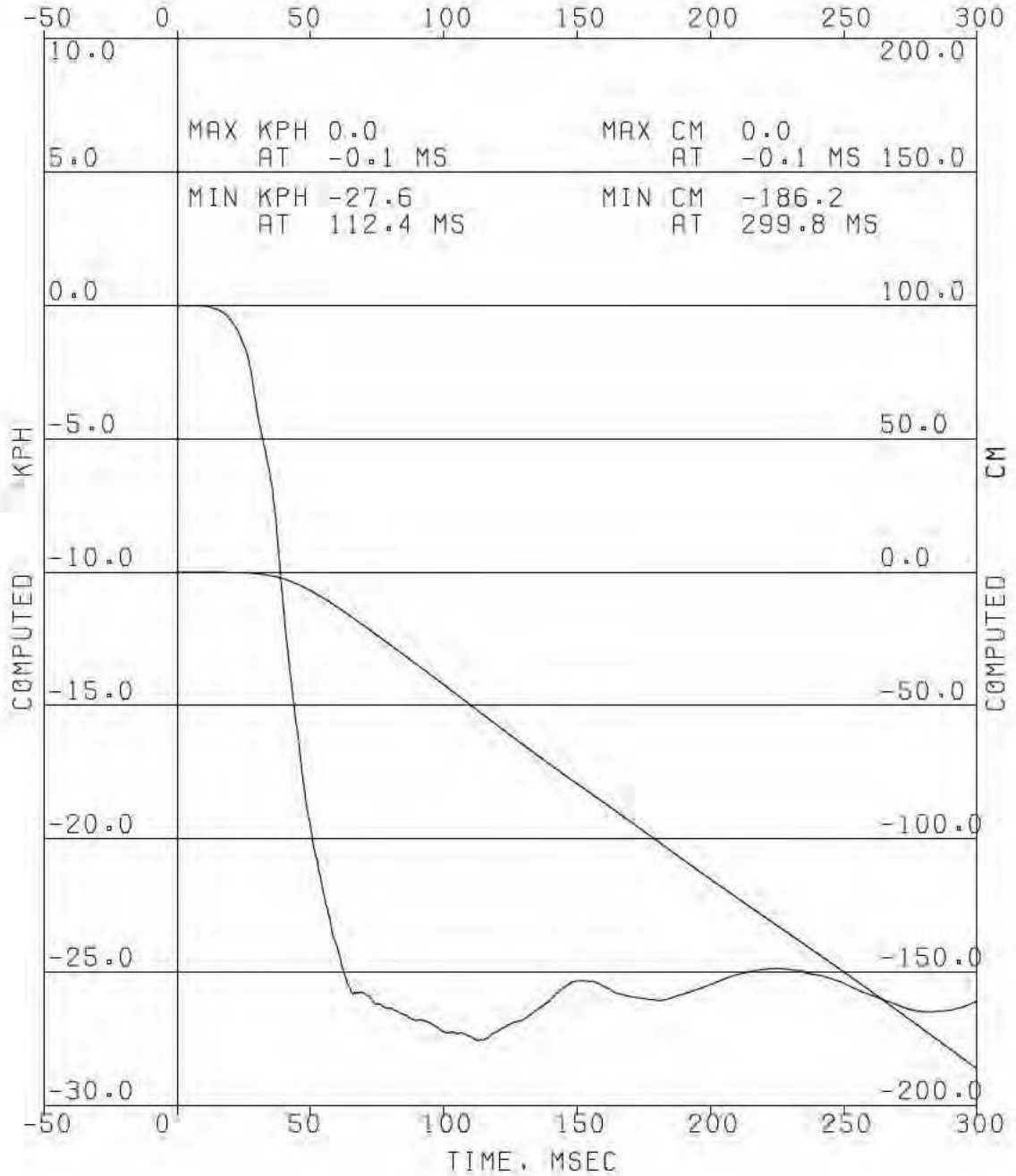


VC11439 48.3 KPH REAR (FULL) TYPE IV ITEM 4W [REDACTED]
05 KJ, USA 301-REAR DEVELOPMENT TEST
CHANNEL 019 ENGINE BOTTOM X P19672

FILTER TYPE: PHASELESS, DCX FFT 10K 4 POLE BUTTERWORTH, (1650.0)
FILTER CLASS: 1000

IMPACT ANALYSIS DEPT. 5320
FEB 6, 2004

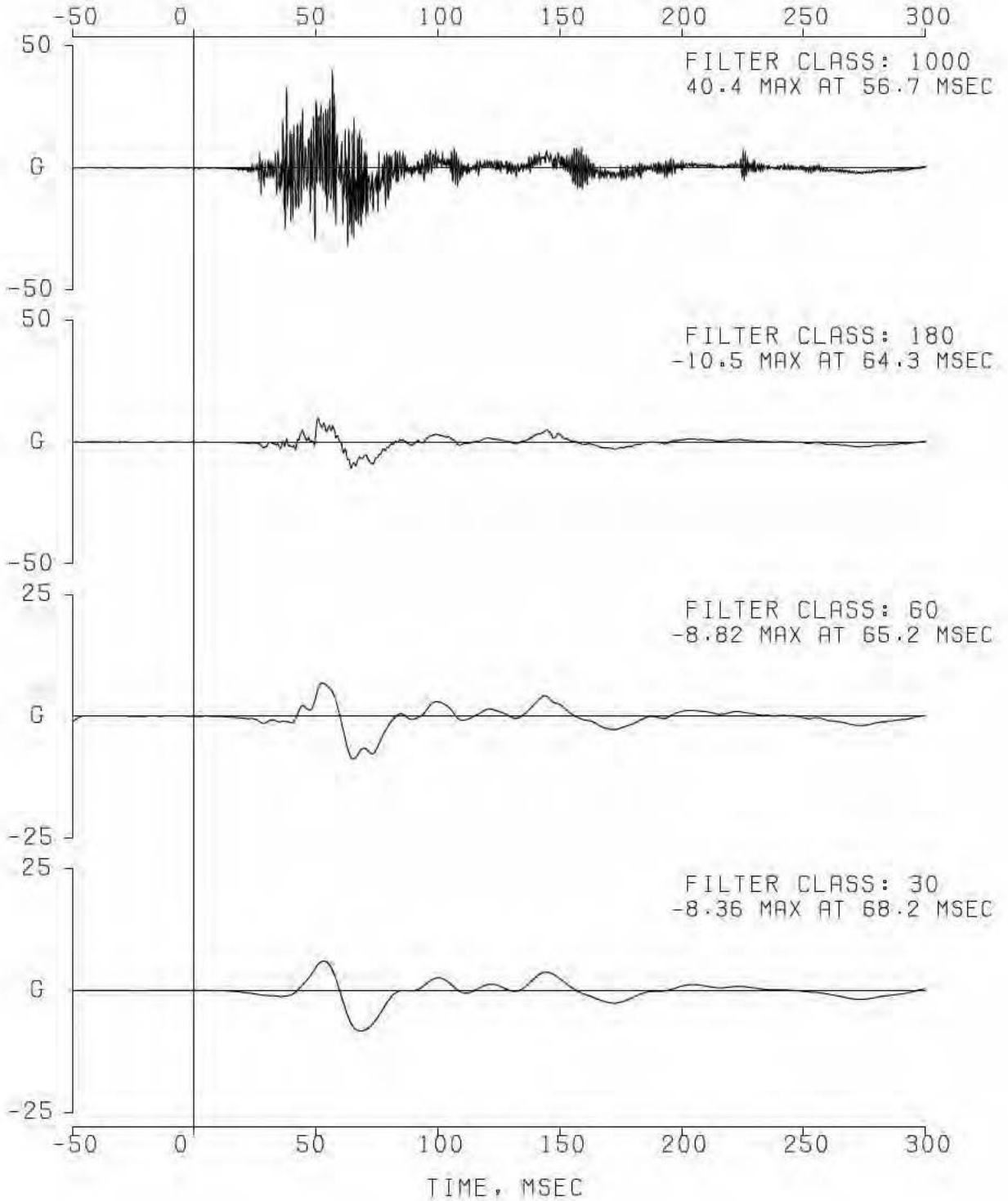
DATA SET 02/06/04BB
ERRATA 1



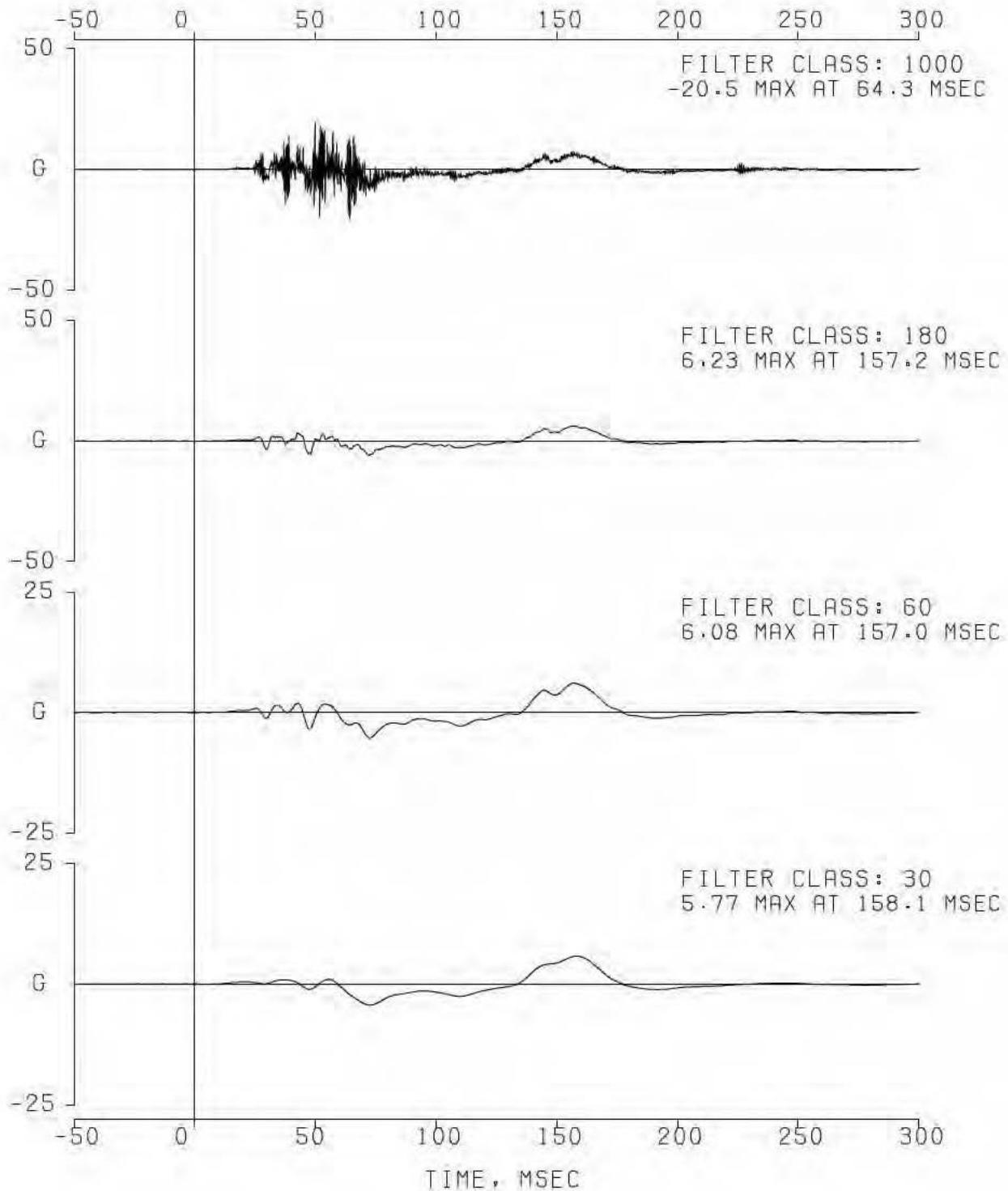
EA12-005- Chrysler -005599

COMPUTED KPH
COMPUTED CM

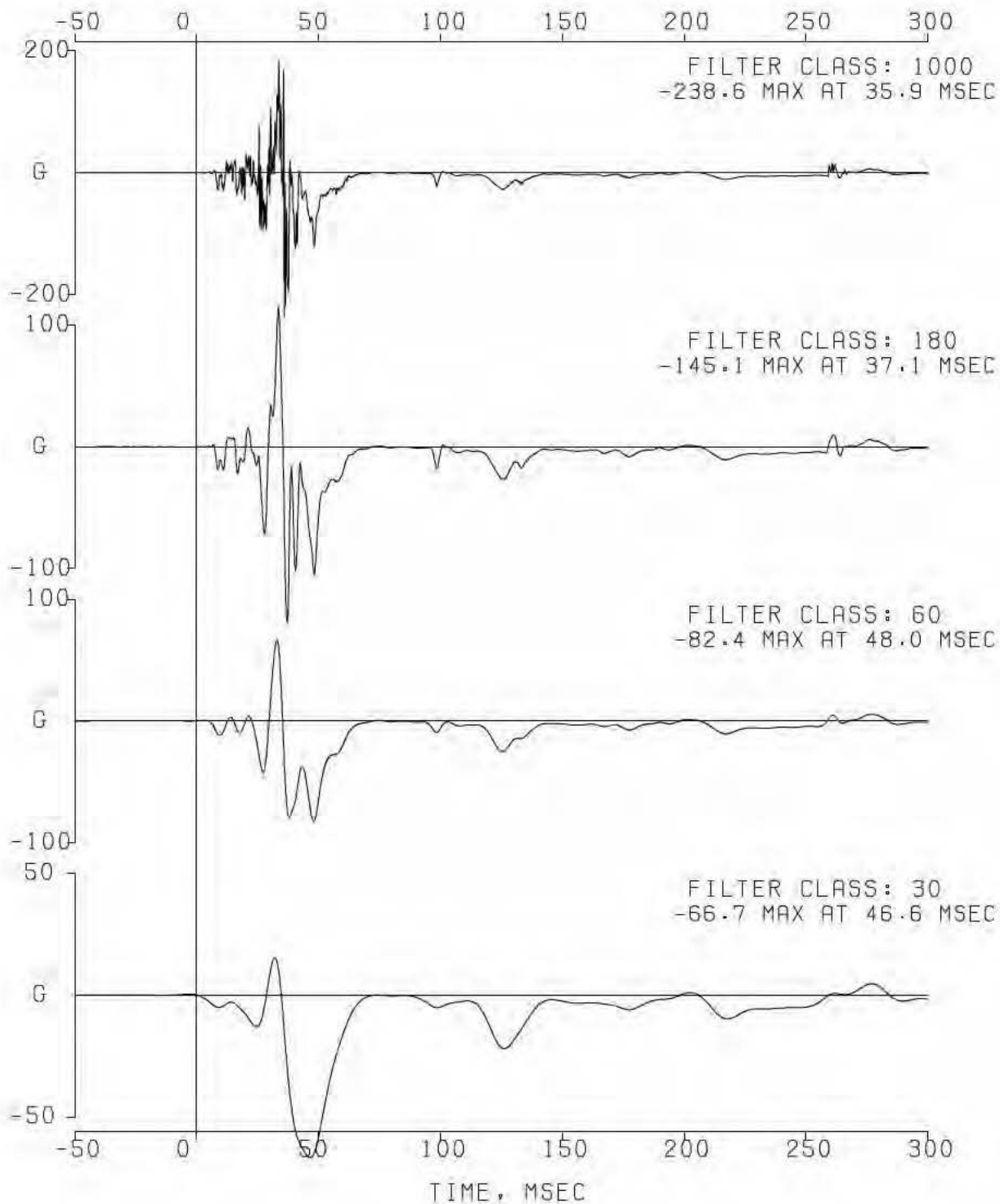
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05 KJ, USA 301-REAR DEVELOPMENT TEST
CHANNEL 020 ENGINE BOTTOM Y P14929
FILTER TYPE: PHASELESS, DCX FFT 10K 4 POLE BUTTERWORTH, (1650.0)
IMPACT ANALYSIS DEPT. 5320 DATA SET 02/06/04BB
FEB 6, 2004 ERRATA 1



VC11439 48.3 KPH REAR (FULL) TYPE IV ITEM 4W [REDACTED]
05 KJ, USA 301-REAR DEVELOPMENT TEST
CHANNEL 021 ENGINE BOTTOM Z P12725
FILTER TYPE: PHASELESS, DCX FFT 10K 4 POLE BUTTERWORTH, (1650.0)
IMPACT ANALYSIS DEPT. 5320 DATA SET 02/06/04BB
FEB 6, 2004 ERRATA 1



VC11439 48.3 KPH REAR (FULL) TYPE IV ITEM 4W [REDACTED]
05 KJ, USA 301-REAR DEVELOPMENT TEST
CHANNEL 022 FUEL TANK BOTTOM ACC X P17924
FILTER TYPE: PHASELESS, DCX FFT 10K 4 POLE BUTTERWORTH, (1650.0)
IMPACT ANALYSIS DEPT. 5320 DATA SET 02/06/04BB
FEB 6, 2004 ERRATA 1

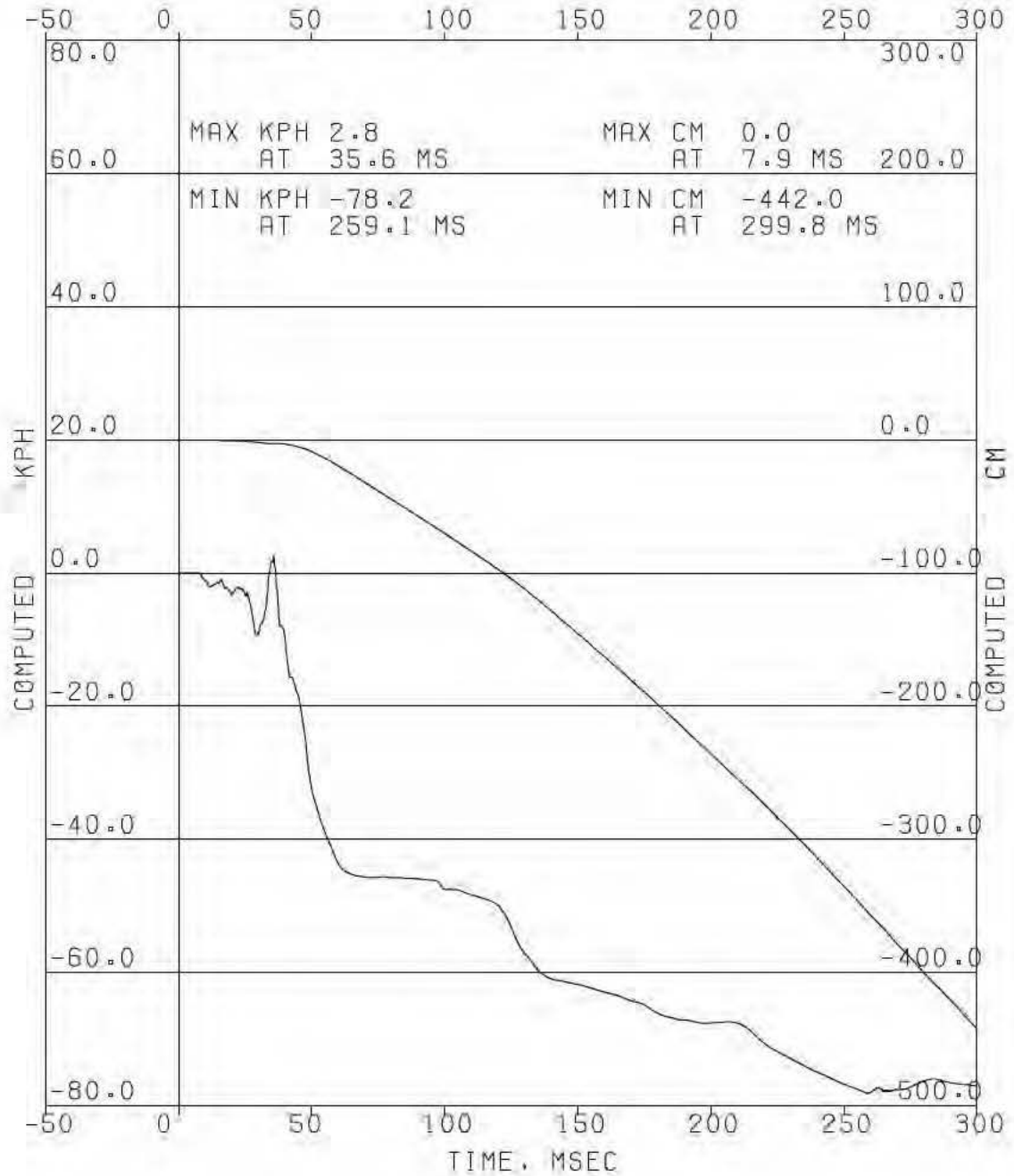


VC11439 48.3 KPH REAR (FULL) TYPE IV ITEM 4W [REDACTED]
05 KJ, USA 301-REAR DEVELOPMENT TEST
CHANNEL 022 FUEL TANK BOTTOM ACC X P17924

FILTER TYPE: PHASELESS, DCX FFT 10K 4 POLE BUTTERWORTH, (1650.0)
FILTER CLASS: 1000

IMPACT ANALYSIS DEPT. 5320
FEB 6, 2004

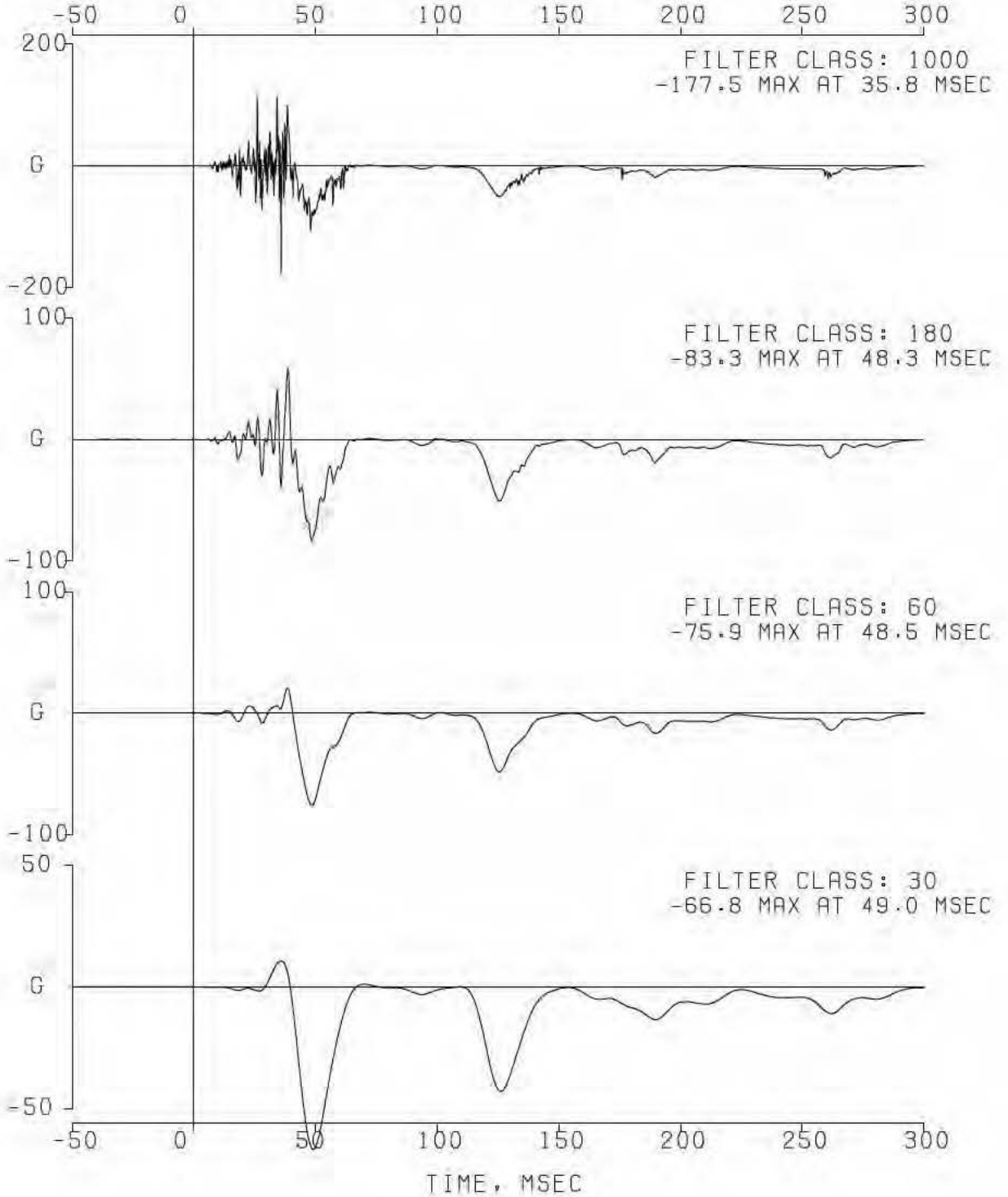
DATA SET 02/06/04BB
ERRATA 1



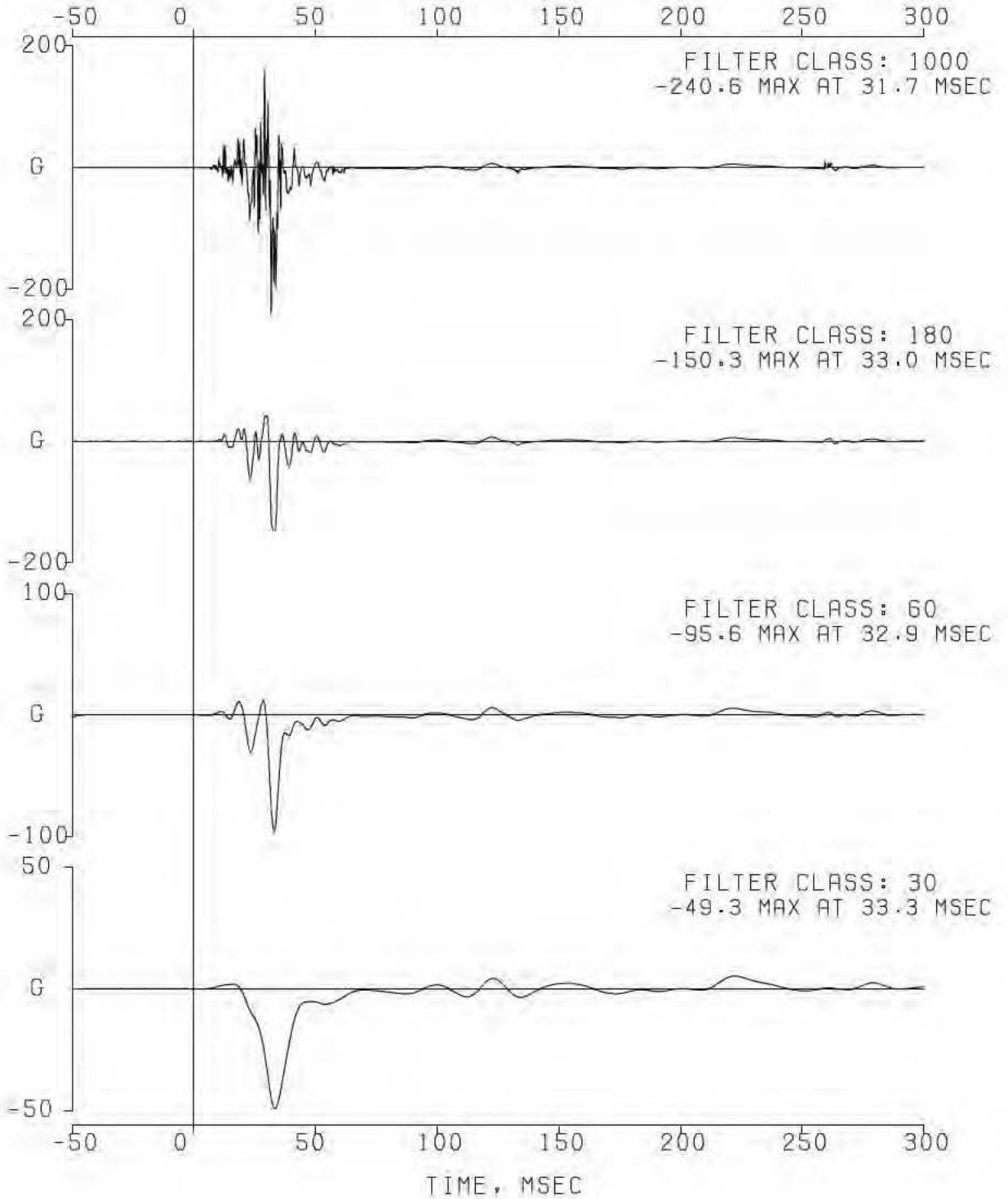
EA12-005- Chrysler -005603

COMPUTED KPH
COMPUTED CM

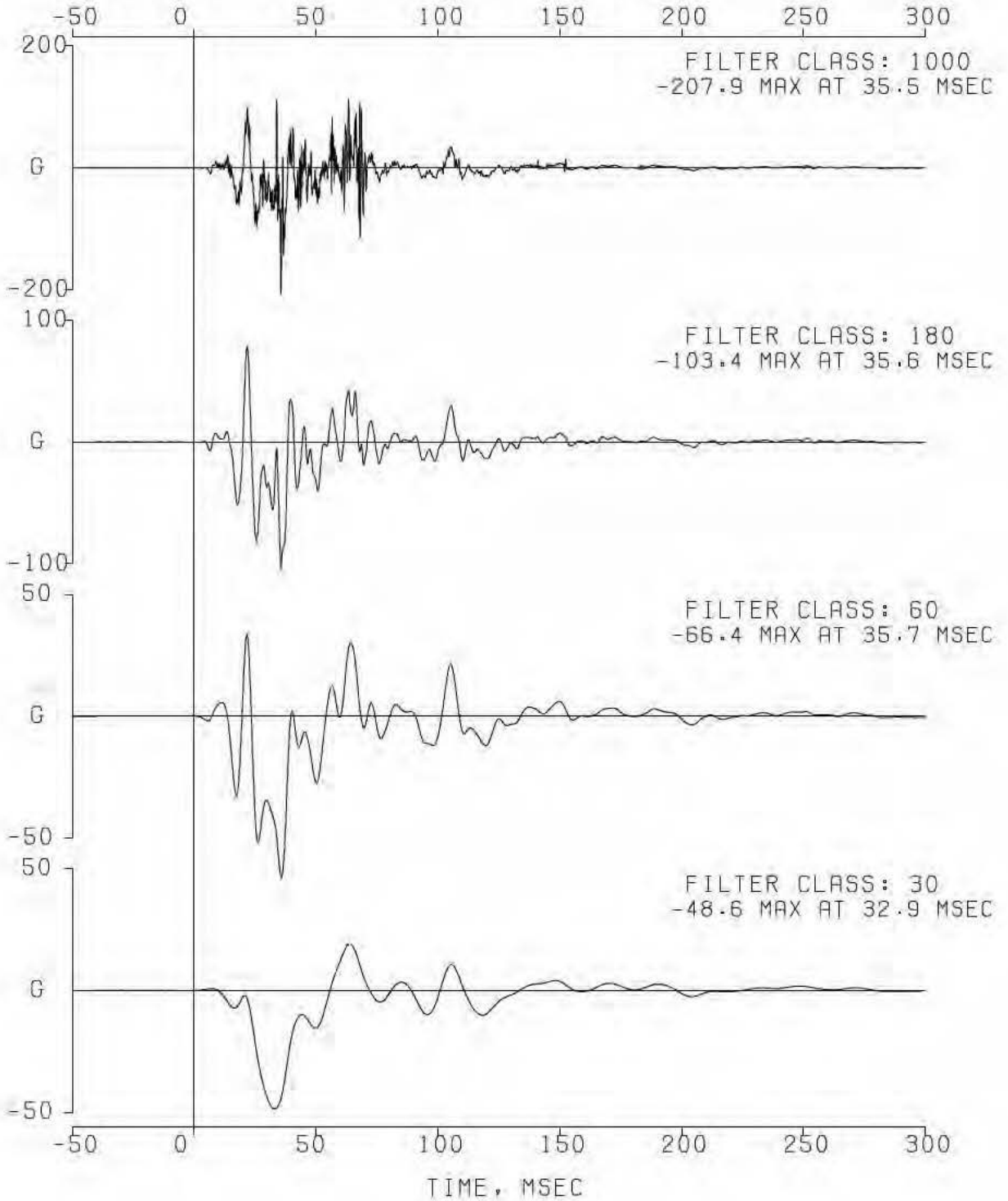
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05 KJ, USA 301-REAR DEVELOPMENT TEST
CHANNEL 023 FUEL TANK BOTTOM ACC Y P17449
FILTER TYPE: PHASELESS, DCX FFT 10K 4 POLE BUTTERWORTH, (1650.0)
IMPACT ANALYSIS DEPT. 5320 DATA SET 02/06/04BB
FEB 6, 2004 ERRATA 1



VC11439 48.3 KPH REAR (FULL) TYPE IV ITEM 4W [REDACTED]
05 KJ, USA 301-REAR DEVELOPMENT TEST
CHANNEL 024 FUEL TANK BOTTOM ACC Z P13783
FILTER TYPE: PHASELESS, DCX FFT 10K 4 POLE BUTTERWORTH, (1650.0)
IMPACT ANALYSIS DEPT. 5320 DATA SET 02/06/04BB
FEB 6, 2004 ERRATA 1



VC11439 48.3 KPH REAR (FULL) TYPE IV ITEM 4W [REDACTED]
05 KJ, USA 301-REAR DEVELOPMENT TEST
CHANNEL 025 FUEL TANK TOP ACCEL X P23569
FILTER TYPE: PHASELESS, DCX FFT 10K 4 POLE BUTTERWORTH, (1650.0)
IMPACT ANALYSIS DEPT. 5320 DATA SET 02/06/04BB
FEB 6, 2004 ERRATA 1

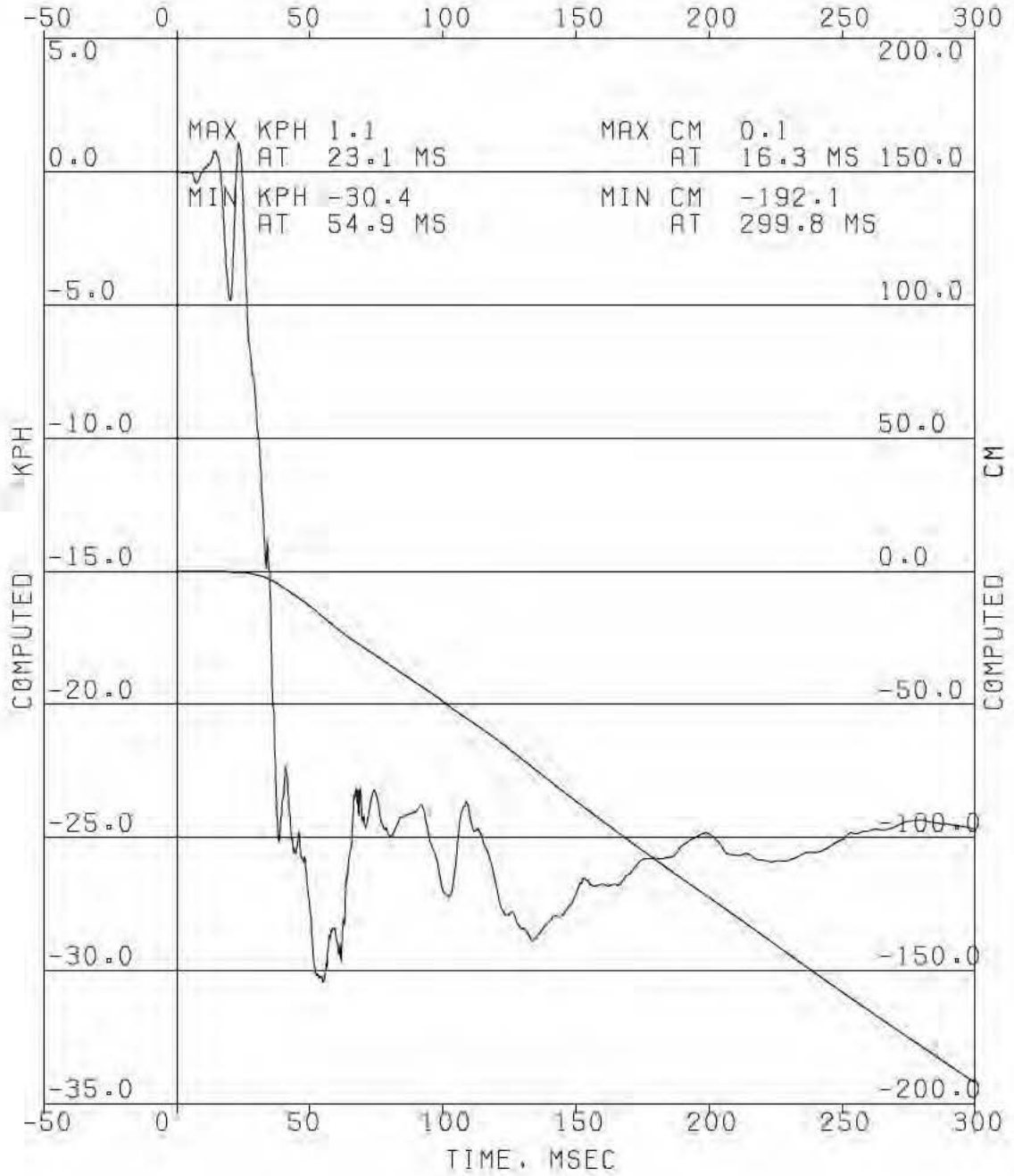


VC11439 48.3 KPH REAR (FULL) TYPE IV ITEM 4W [REDACTED]
05 KJ, USA 301-REAR DEVELOPMENT TEST
CHANNEL 025 FUEL TANK TOP ACCEL X P23569

FILTER TYPE: PHASELESS, DCX FFT 10K 4 POLE BUTTERWORTH, (1650.0)
FILTER CLASS: 1000

IMPACT ANALYSIS DEPT. 5320
FEB 6, 2004

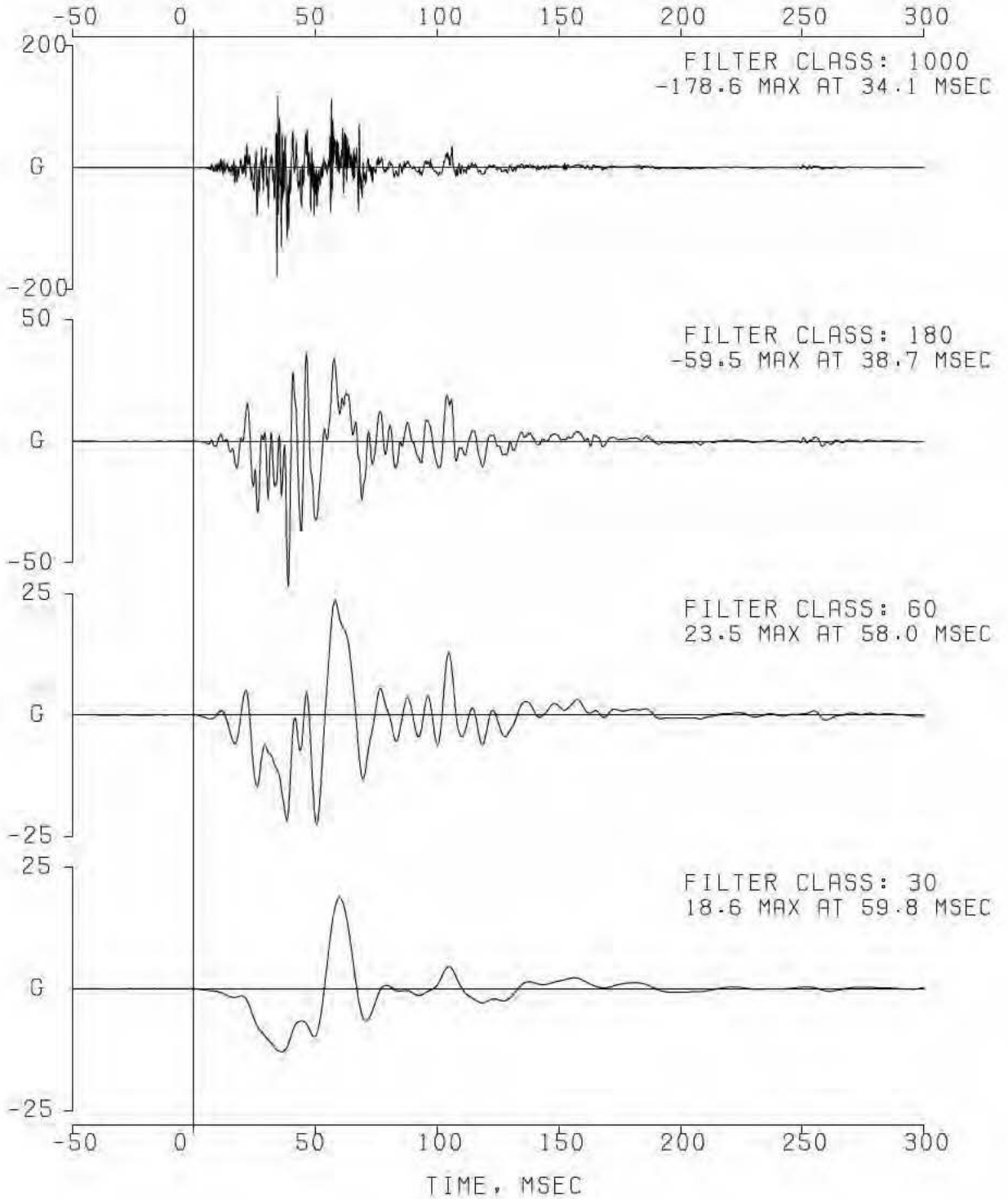
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ERRATA 1



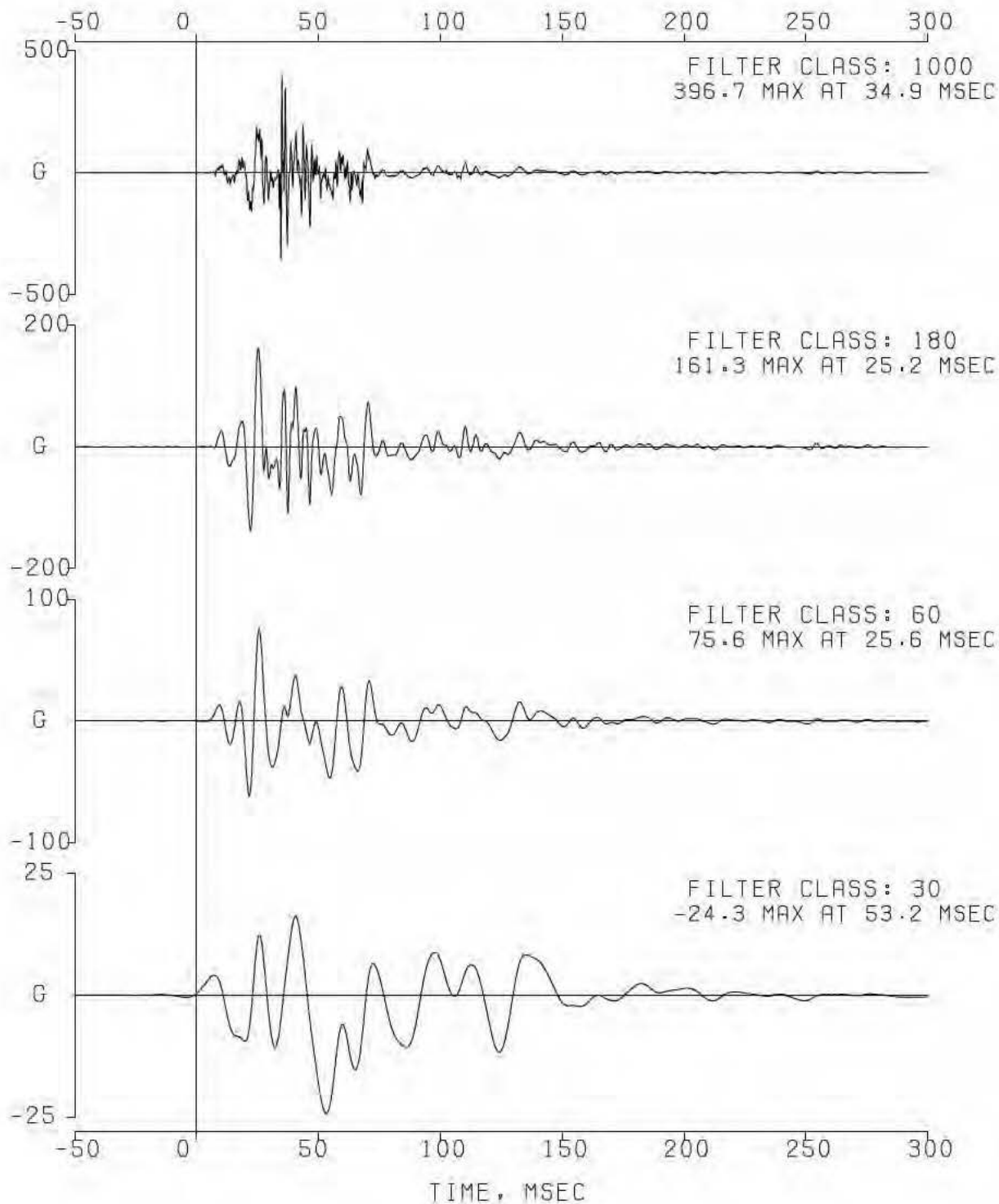
EA12-005- Chrysler -005607

COMPUTED KPH
COMPUTED CM

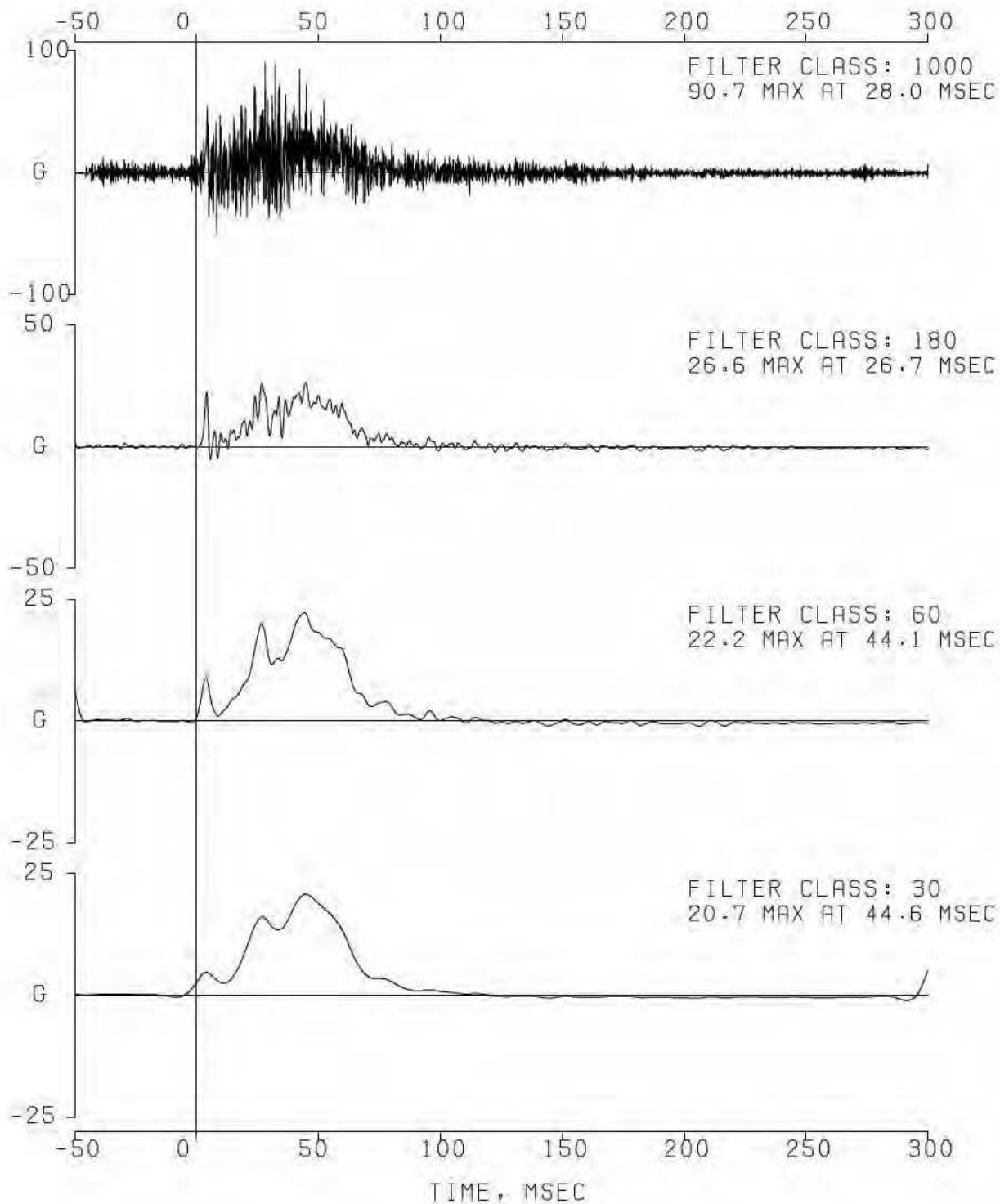
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05 KJ, USA 301-REAR DEVELOPMENT TEST
CHANNEL 026 FUEL TANK TOP ACCEL Y P16982
FILTER TYPE: PHASELESS, DCX FFT 10K 4 POLE BUTTERWORTH, (1650.0)
IMPACT ANALYSIS DEPT. 5320 DATA SET 02/06/04BB
FEB 6, 2004 ERRATA 1



VC11439 48.3 KPH REAR (FULL) TYPE IV ITEM 4W [REDACTED]
05 KJ, USA 301-REAR DEVELOPMENT TEST
CHANNEL 027 FUEL TANK TOP ACCEL Z P22763
FILTER TYPE: PHASELESS, DCX FFT 10K 4 POLE BUTTERWORTH, (1650.0)
IMPACT ANALYSIS DEPT. 5320 DATA SET 02/06/04BB
FEB 6, 2004 ERRATA 1



VC11439 48.3 KPH REAR (FULL) TYPE IV ITEM 4W [REDACTED]
05 KJ, USA 301-REAR DEVELOPMENT TEST
CHANNEL 033 M-FLAT LT RAIL MID X ETBB765
FILTER TYPE: PHASELESS, DCX FFT 10K 4 POLE BUTTERWORTH, (1650.0)
IMPACT ANALYSIS DEPT. 5320 DATA SET 02/06/04BC
FEB 6, 2004 ERRATA 1

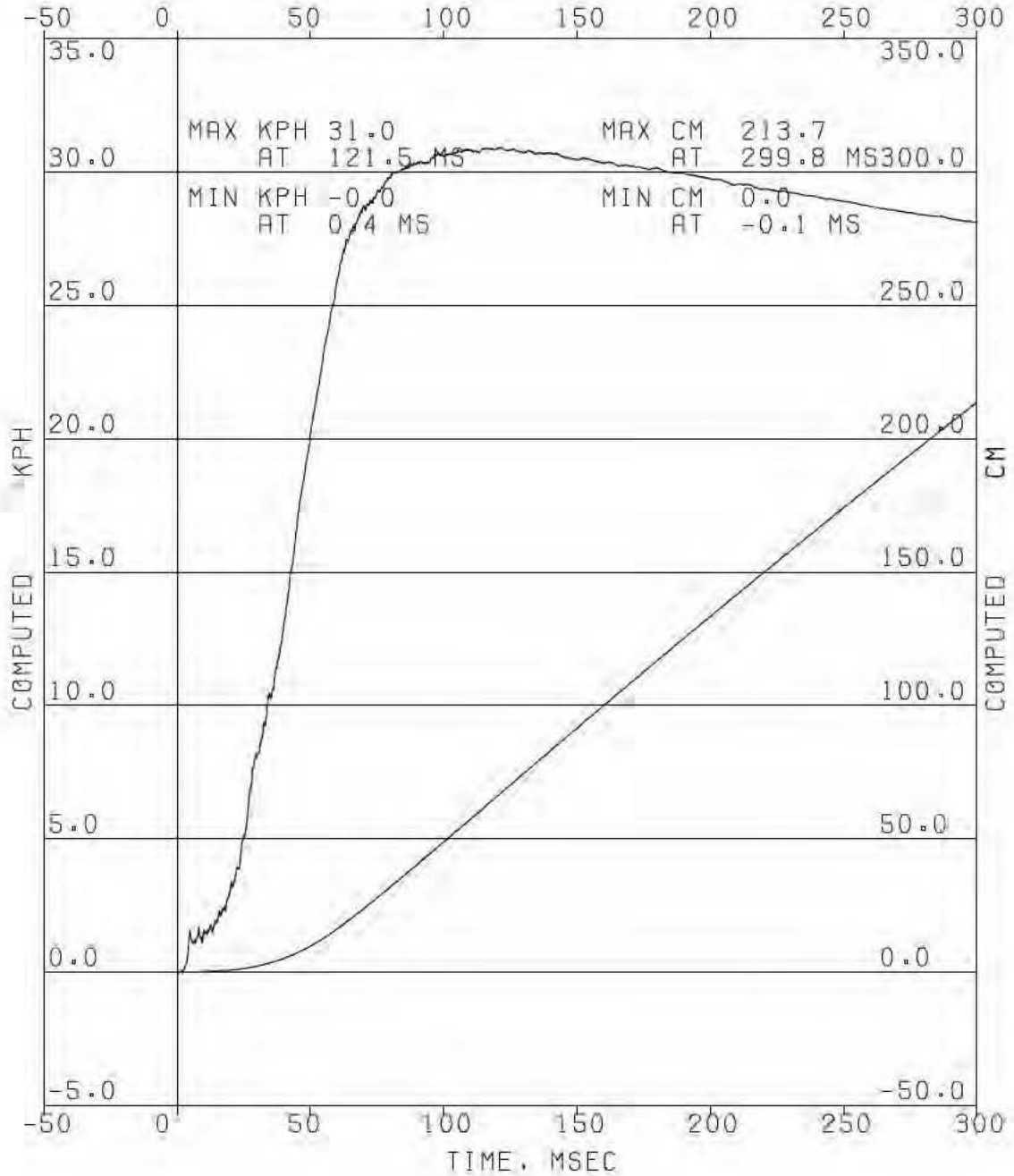


VC11439 48.3 KPH REAR (FULL) TYPE IV ITEM 4W [REDACTED]
05 KJ, USA 301-REAR DEVELOPMENT TEST
CHANNEL 033 M-FLAT LT RAIL MID X ETBB765

FILTER TYPE: PHASELESS, DCX FFT 10K 4 POLE BUTTERWORTH, (1650.0)
FILTER CLASS: 1000

IMPACT ANALYSIS DEPT. 5320
FEB 6, 2004

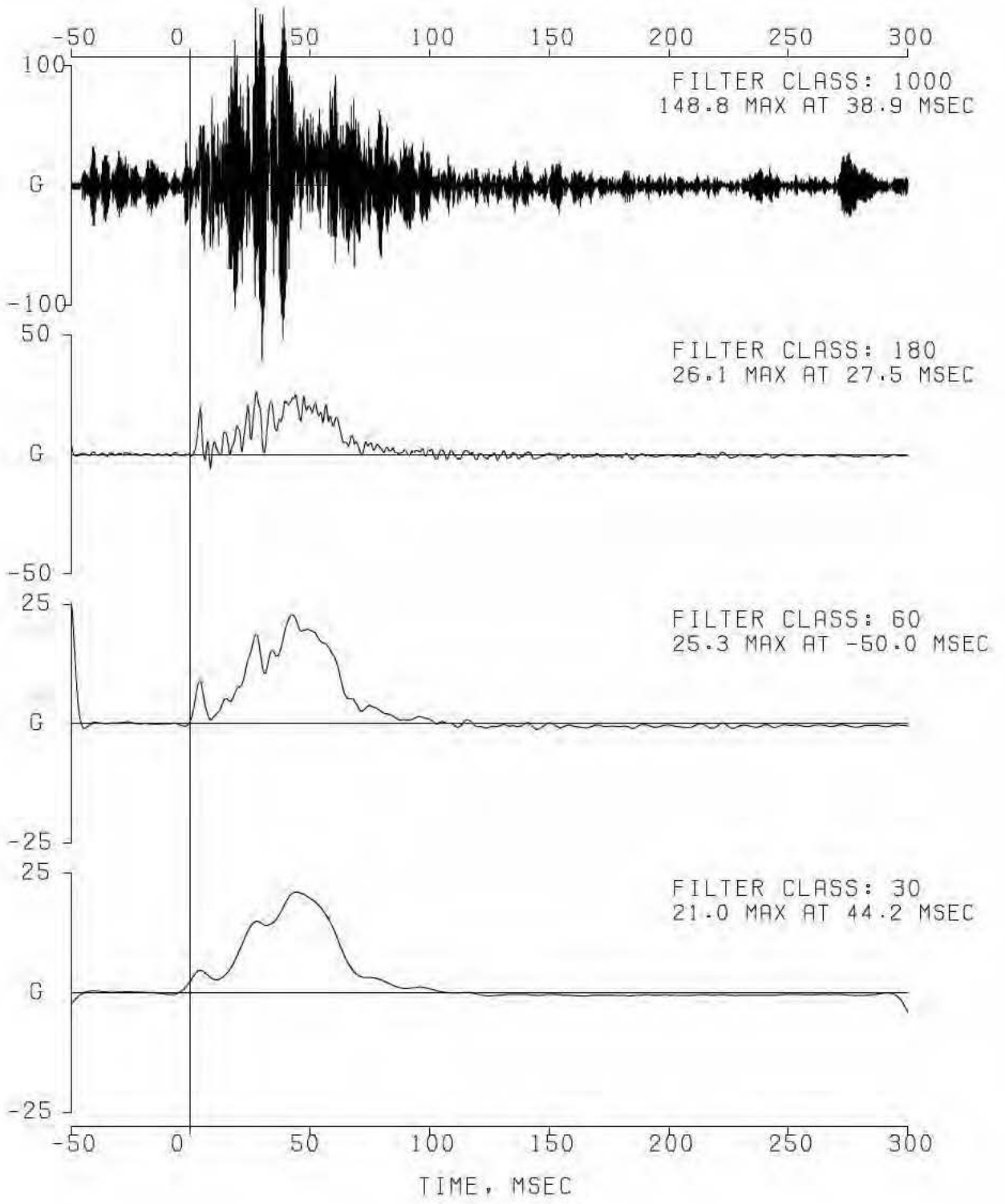
DATA SET 02/06/04BC
ERRATA 1



EA12-005- Chrysler -005611

COMPUTED KPH
COMPUTED CM

VC11439 48.3 KPH REAR (FULL) TYPE IV ITEM 4W [REDACTED]
05 KJ, USA 301-REAR DEVELOPMENT TEST
CHANNEL 034 M-FLAT RT RAIL MID X ETBB316
FILTER TYPE: PHASELESS, DCX FFT 10K 4 POLE BUTTERWORTH, (1650.0)
IMPACT ANALYSIS DEPT. 5320 DATA SET 02/06/04BC
FEB 6, 2004 ERRATA 1

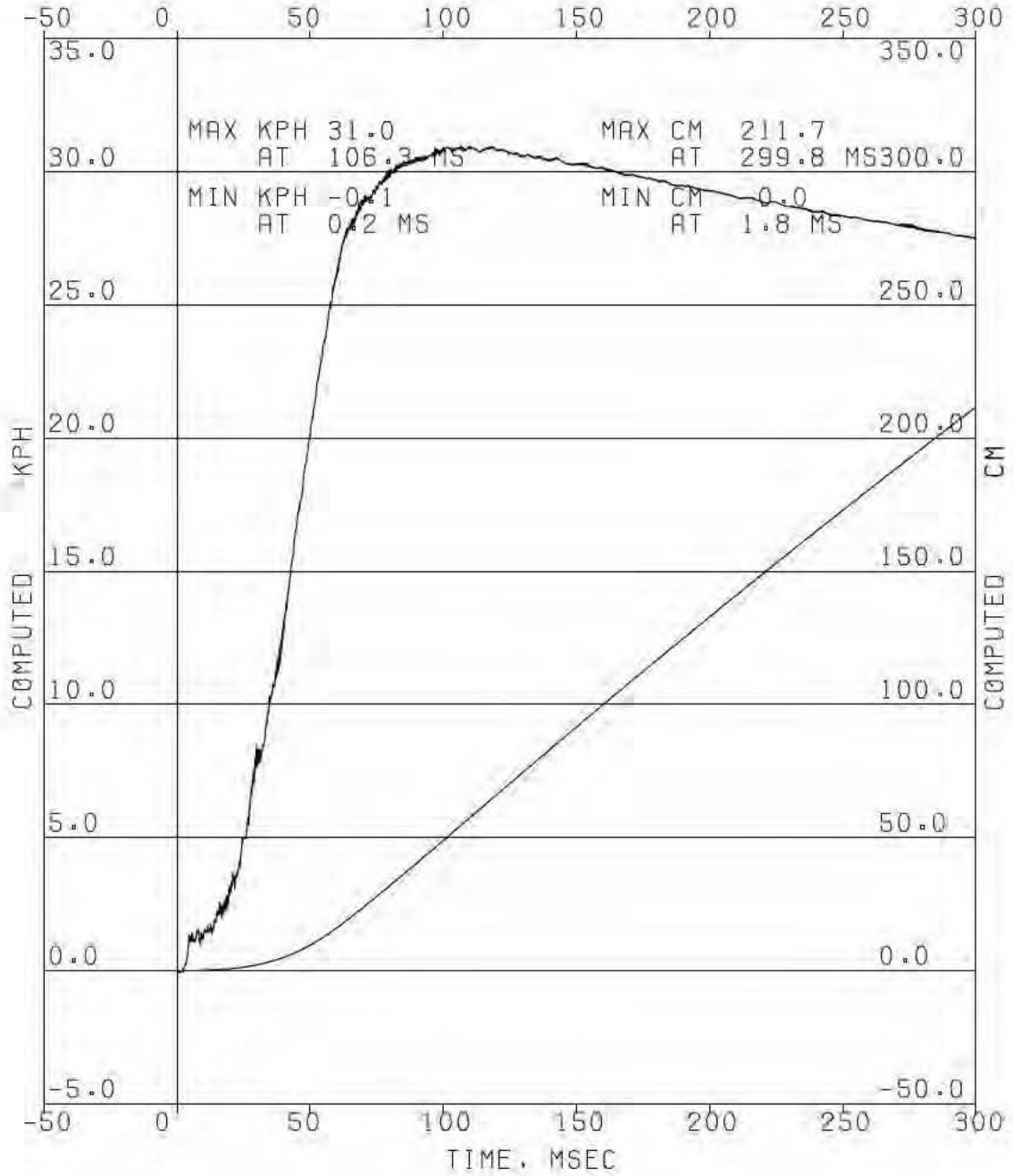


VC11439 48.3 KPH REAR (FULL) TYPE IV ITEM 4W [REDACTED]
05 KJ, USA 301-REAR DEVELOPMENT TEST
CHANNEL 034 M-FLAT RT RAIL MID X ETBB316

FILTER TYPE: PHASELESS, DCX FFT 10K 4 POLE BUTTERWORTH, (1650.0)
FILTER CLASS: 1000

IMPACT ANALYSIS DEPT. 5320
FEB 6, 2004

DATA SET 02/06/04BC
ERRATA 1



EA12-005- Chrysler -005613

COMPUTED KPH
COMPUTED CM

TITLE: Page Index of EDP plots	Pages	001 - 047	
***** VC11439A *****			Page I-01
TITLE: Transducer Summary Reports	Pages	001 - 005	
SYSTEM: METRIC			
PAGE: 001	TSR Channels	001 - 008	
PAGE: 002	TSR Channels	009 - 016	
PAGE: 003	TSR Channels	017 - 024	
PAGE: 004	TSR Channels	025 - 032	
PAGE: 005	TSR Channels	033 - 034	
***** VC11439B *****			
TITLE: Vehicle Channels	Pages	006 - 047	
SYSTEM: METRIC			
PAGE: 006	Average of Sill Chls 1, 4, 7, & 10		
PAGE: 007	Average of Frt Sill Chls 1 & 4		
PAGE: 008	LEFT FRONT SILL X, Chl 1		
PAGE: 009	LEFT FRONT SILL X, Chl 1, VD		
PAGE: 010	LEFT FRONT SILL Y, Chl 2		
PAGE: 011	LEFT FRONT SILL Z, Chl 3		
PAGE: 012	RIGHT FRONT SILL X, Chl 4		
PAGE: 013	RIGHT FRONT SILL X, Chl 4, VD		
PAGE: 014	RIGHT FRONT SILL Y, Chl 5		
PAGE: 015	RIGHT FRONT SILL Z, Chl 6		
PAGE: 016	LEFT REAR SILL X, Chl 7		
PAGE: 017	LEFT REAR SILL X, Chl 7, VD		
PAGE: 018	LEFT REAR SILL Y, Chl 8		
PAGE: 019	LEFT REAR SILL Z, Chl 9		
PAGE: 020	RIGHT REAR SILL X, Chl 10		
PAGE: 021	RIGHT REAR SILL X, Chl 10, VD		
PAGE: 022	RIGHT REAR SILL Y, Chl 11		
PAGE: 023	RIGHT REAR SILL Z, Chl 12		
PAGE: 024	LEFT RAIL MID TANK X, Chl 13		
PAGE: 025	LEFT RAIL MID TANK X, Chl 13, VD		
PAGE: 026	LEFT RAIL MID TANK Y, Chl 14		
PAGE: 027	LEFT RAIL MID TANK Z, Chl 15		
PAGE: 028	RIGHT RAIL MID TANK X, Chl 16		
PAGE: 029	RIGHT RAIL MID TANK X, Chl 16, VD		
PAGE: 030	RIGHT RAIL MID TANK Y, Chl 17		
PAGE: 031	RIGHT RAIL MID TANK Z, Chl 18		
PAGE: 032	ENGINE BOTTOM X, Chl 19		
PAGE: 033	ENGINE BOTTOM X, Chl 19, VD		
PAGE: 034	ENGINE BOTTOM Y, Chl 20		
PAGE: 035	ENGINE BOTTOM Z, Chl 21		
PAGE: 036	FUEL TANK BOTTOM ACC X, Chl 22		
PAGE: 037	FUEL TANK BOTTOM ACC X, Chl 22, VD		
PAGE: 038	FUEL TANK BOTTOM ACC Y, Chl 23		
PAGE: 039	FUEL TANK BOTTOM ACC Z, Chl 24		
PAGE: 040	FUEL TANK TOP ACCEL X, Chl 25		
PAGE: 041	FUEL TANK TOP ACCEL X, Chl 25, VD		
PAGE: 042	FUEL TANK TOP ACCEL Y, Chl 26		
PAGE: 043	FUEL TANK TOP ACCEL Z, Chl 27		
PAGE: 044	M-FLAT LT RAIL MID X, Chl 33		
PAGE: 045	M-FLAT LT RAIL MID X, Chl 33, VD		
PAGE: 046	M-FLAT RT RAIL MID X, Chl 34		
PAGE: 047	M-FLAT RT RAIL MID X, Chl 34, VD		

EA12-005

CHRYSLER

12-13-2012

Enclosure 6B

301 Developmental Crash

Tests Public

KJ Development Crash Test

VC11439.FAR.DCR.FA_REPO

RT.DCR_DYNAMIC_CRUSH

_REAR Public

G L O S S A R Y O F T E R M S

U S E D I N S T A N D A R D R E P O R T S

AD	ANTHROPOMORPHIC DEVICE
ATD	ANTHROPOMORPHIC TEST DEVICE
BASE COORD	BASE COORDINATE SYSTEM
C/L	CENTERLINE
CAR COORD	CAR COORDINATE SYSTEM
CCW	COUNTER CLOCKWISE
CORR-IN	SEPARATION IN INCHES (MINUS INITIAL LENGTH)
CORR-MM	SEPARATION IN MM (MINUS INITIAL LENGTH)
CORR-P	CORRECTED (ZEROED) PITCH
CORR-R	CORRECTED (ZEROED) ROLL
CORR-Y	CORRECTED (ZEROED) YAW
CW	CLOCKWISE
EFI	ELECTRONIC FUEL INJECTOR
ENG	ENGINE
ENGPY	ENGINE PITCH AND YAW
FESM	FRONT END SHEET METAL
FIDUCIAL	REFERENCE POINT OR TARGET
FS	FRONT SILL TARGET
FWD	FORWARD
IP	INSTRUMENT PANEL TARGET
LBS	POUNDS
LCP,LQP	LEFT C-POST & QUARTER PANEL TARGETS
LFS,LMS,LRS	LEFT FRONT SILL, MID SILL, & REAR SILL TARGETS
LT	LEFT
MS	MID SILL TARGET
NORMALIZE	PUT ON A COMMON BASIS
NOSE-DOWN	LEADING END BELOW TRAILING
NOSE-UP	LEADING END ABOVE TRAILING
PERF	PERFORMANCE
REF	REFERENCE
REL	RELATIVE TO (ONE-DIMENSIONAL)
RCP,RQP	RIGHT C-POST & QUARTER PANEL TARGETS
RFS,RMS,RRS	RIGHT FRONT, MID, & REAR SILL TARGETS
ROLL-LEFT	LEFT SIDE LOWER THAN RIGHT
ROLL-RIGHT	RIGHT SIDE LOWER THAN LEFT
RS	REAR SILL TARGET
RT	RIGHT
SEP	SEPARATION OF (THREE-DIMENSIONAL)
SYS	SYSTEM
TBI	THROTTLE BODY INJECTOR
TIME.MS	TIME IN MILLISECONDS
U/B	UNDERBODY
VS	VERSUS
X	LONGITUDINAL AXIS (INCREASING TOWARD TRAILING EDGE)
XF	X-FILTERED
Y	LATERAL AXIS (INCREASING TO THE RIGHT)
YAW-LEFT	LEADING EDGE TO LEFT
YAW-RIGHT	LEADING EDGE TO RIGHT
Z	VERTICAL AXIS (INCREASING UPWARD)
ZEROED	SHIFTED TO START AT ZERO
ZERO-IN	ZEROED INCHES
ZERO-MM	ZEROED MILLIMETERS

IMPACT ANALYSIS
DEPARTMENT 5320
02/11/04 08:35
EAT-2005-chrysler-004530

VC11439 48.3 KPH REAR (FULL) TYPE IV ITEM 4W
 05 KJ, USA 301-REAR DEVELOPMENT TEST
 ZEROED X MOTION OF F3 REL TO LFS IN BASE COORD SYS
 VERSUS TIME IN MILLISEC

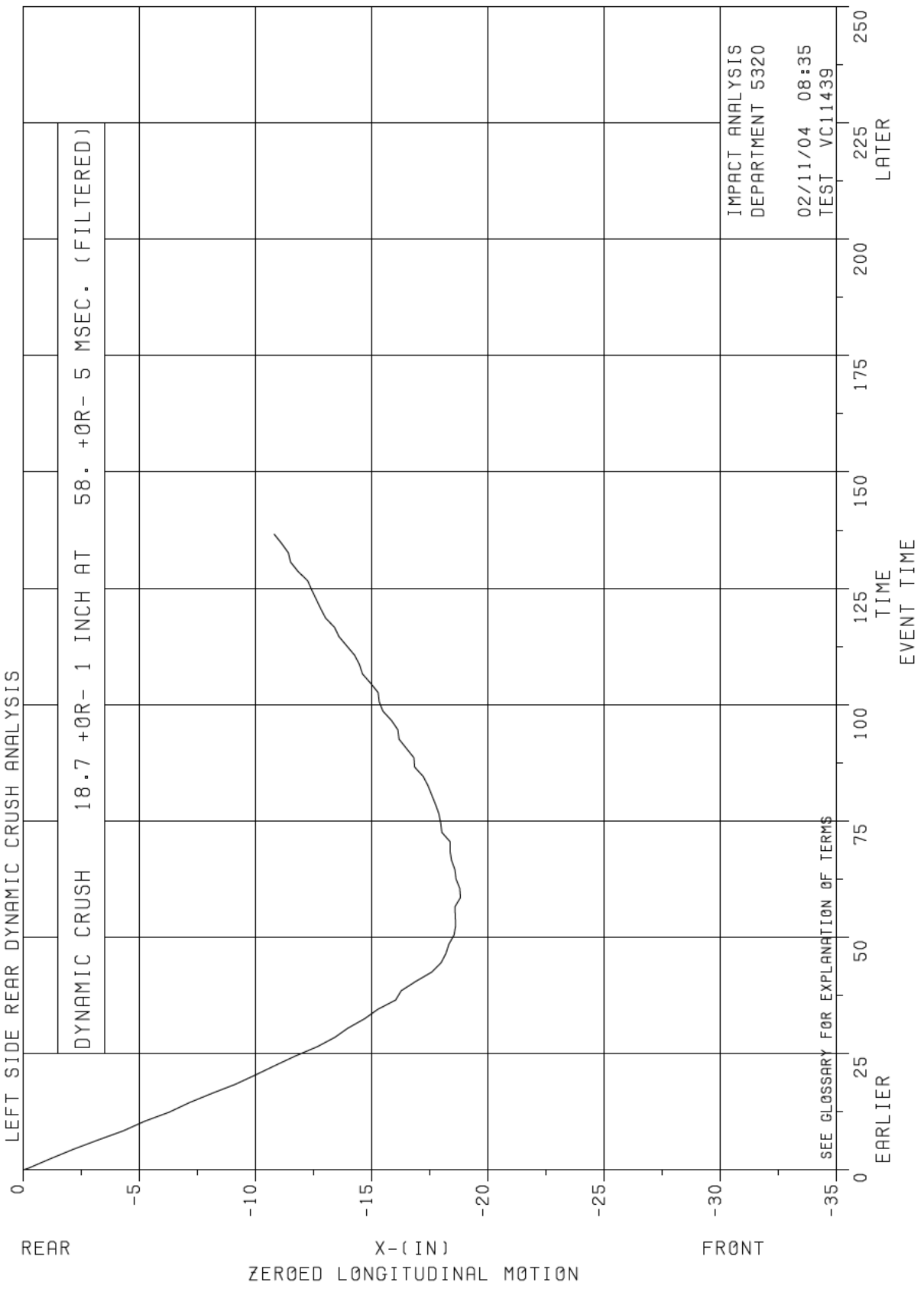


FIGURE 1

VC11439 48.3 KPH REAR (FULL) TYPE IV ITEM 4W
 05 KJ, USA 301-REAR DEVELOPMENT TEST
 ZEROED Z OF LFS RELATIVE TO LRW IN CAR COORD
 VERSUS ZEROED X OF LFS RELATIVE TO LRW IN CAR COORD
 LEFT SIDE REAR DYNAMIC CRUSH ANALYSIS

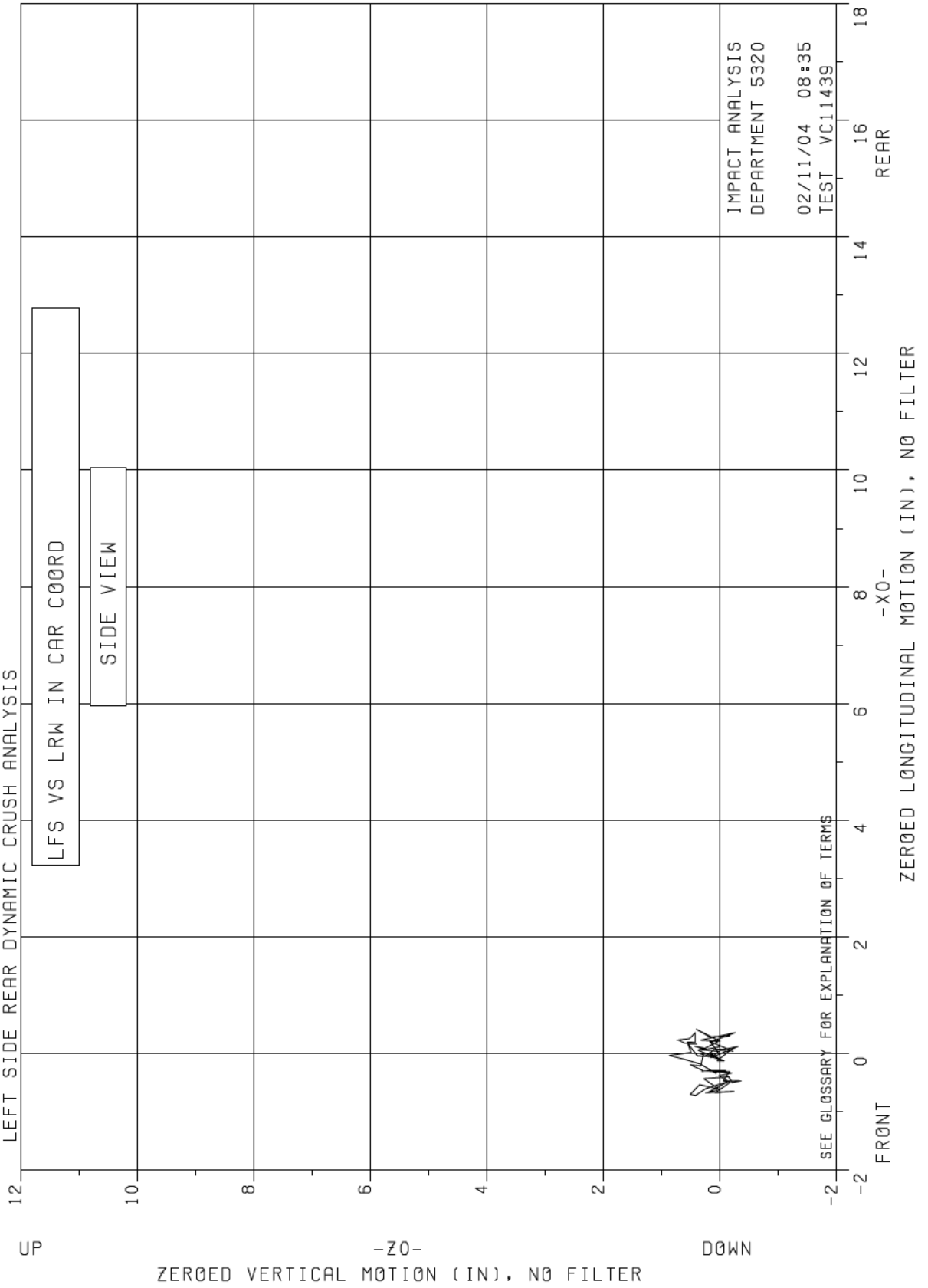


FIGURE 2

VC11439 48.3 KPH REAR (FULL) TYPE IV ITEM 4W [REDACTED]
 05 KJ, USA 301-REAR DEVELOPMENT TEST
 ZEROED ROLL OF LFS TO LEFT A-POST IN BASE COORD SYSTEM
 VERSUS TIME IN MILLISECONDS
 LEFT SIDE REAR DYNAMIC CRUSH ANALYSIS

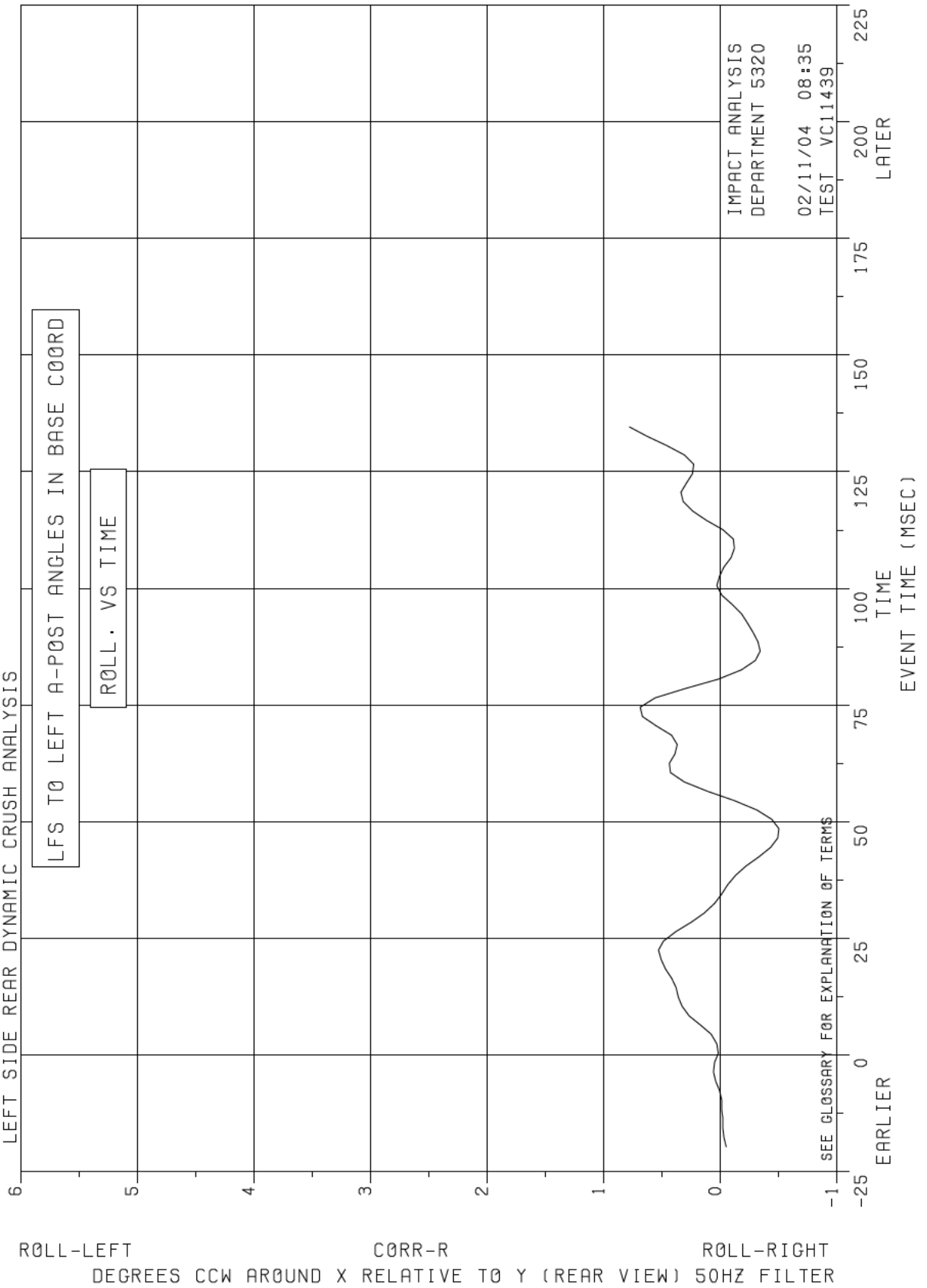


FIGURE 5

VC11439 48.3 KPH REAR (FULL) TYPE IV ITEM 4W [REDACTED]
 05 KJ, USA 301-REAR DEVELOPMENT TEST
 LFS TO LMS DISTANCE, -29.73 INCHES (INITIAL DIST) (IN)
 VERSUS TIME IN MILLISECONDS
 LEFT SIDE REAR DYNAMIC CRUSH ANALYSIS

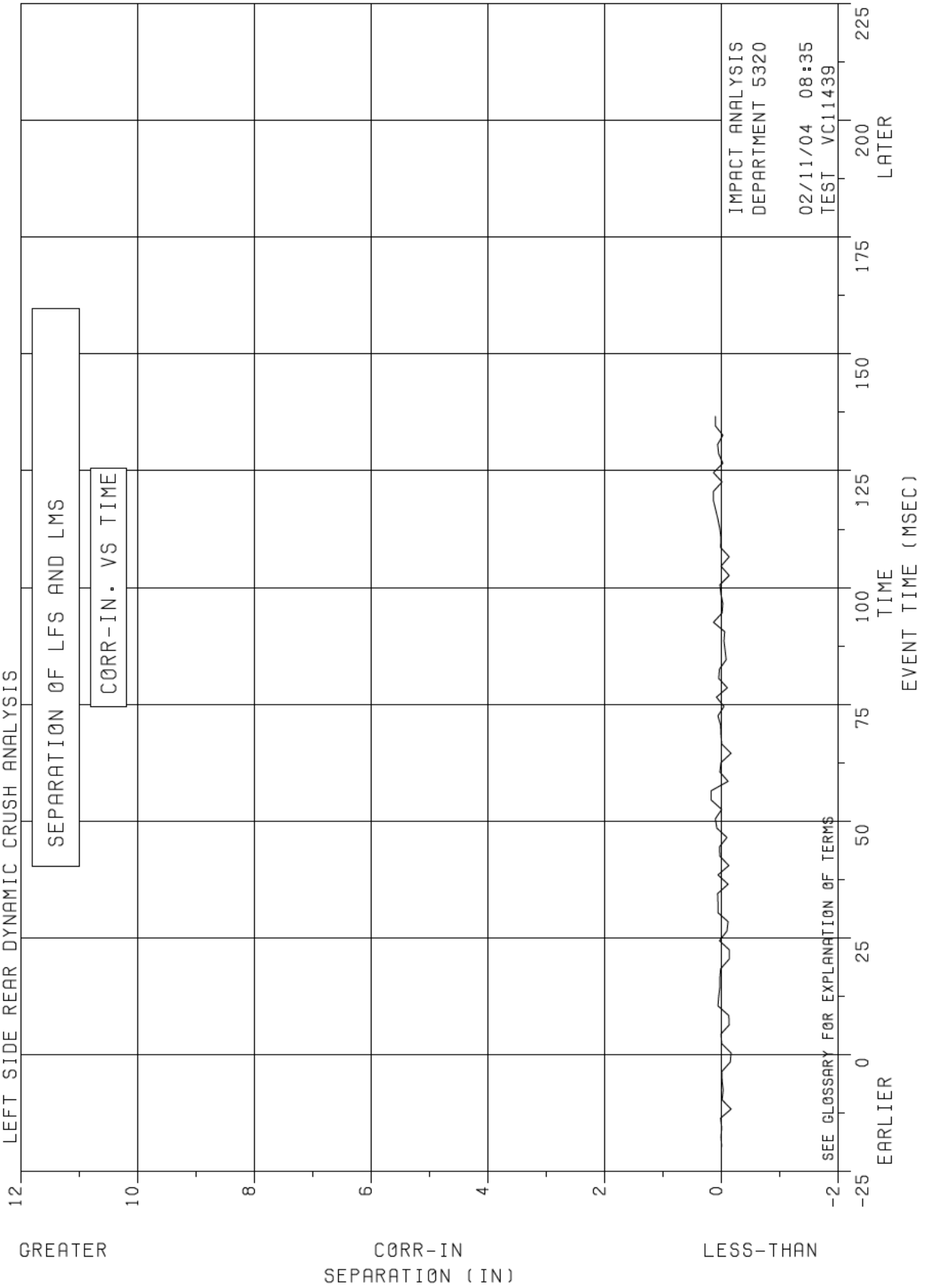


FIGURE 6

INTER COMPANY CORRESPONDENCE

DATE 02/11/04

TO
DISTRIBUTION

FROM
E. J. BACHMANN

DEPARTMENT
5320

PLANT/OFFICE
CTC

CIMS NUMBER
481-00-27

SUBJECT:
LEFT SIDE REAR DYNAMIC CRUSH ANALYSIS
VC11439 48.3 KPH REAR (FULL) TYPE IV ITEM 4W [REDACTED]
05 KJ, USA 301-REAR DEVELOPMENT TEST
TEST DATE 02/06/04

TEST SITE CPG

TEST PURPOSE PRIMARY, 2005 USA 301-REAR DEVELOPMENT

IMPACT TYPE TARGET SPEED; 48.3 KPH
DAMAGE LOCATION; REAR (FULL)
BARRIER TYPE; REAR TYPE IV
BARRIER SURFACE; PLYWOOD

VEHICLE BODY CLASS; KJ
CAR LINE; J
BODY; 74
ENGINE; 3.7 LITER
ENGINE NOTE;
TRANSMISSION; 6 SPEED MANUAL
TRANS. NOTE;
VIN AS TESTED; 1J4GL38K54W [REDACTED] MOD.
VIN AS BUILT; 1J4GL38K54W [REDACTED] MOD.

TEST SPEED 48.79 KPH BY TRAP AVERAGE

TEST WEIGHT (KG) 2231 TOTAL, 1161 FRONT, 1070 REAR

OCCUPANTS 1L - 50TH MALE BALLAST HYBRID 2, 0 - CH AD-60
RESTRAINT- 3-PT UNIBELT ONLY
1R - 50TH MALE BALLAST HYBRID 2, 0 - CH AD-59
RESTRAINT- 3-PT UNIBELT ONLY

BUILD CONDITION

TARGET WEIGHT (KG) 2231 TOTAL, 1160 FRONT, 1071 REAR
INCLUDING BALLAST AND OCCUPANTS

FUEL AND BALLAST 73.8 LITERS STODDARD SOLVENT

TEST VC11439 02/11/04 08:35 PAGE 1 OF 2

136.1 KG BALLAST WEIGHT SECURED IN CARGO AREA
206.4 KG ADDITIONAL BALLAST WEIGHT ADDED
330LBS 2-BALLAST 50TH MALE 2ND ROW
50LBS 1L FLOOR PAN
75LBS 1R FLOOR PAN

DATA FOR THIS ANALYSIS WAS DIGITIZED BY S. D. AMUNDSEN.

THE LEFT SIDE REAR DYNAMIC CRUSH HAS BEEN DETERMINED BY FILM ANALYSIS. TIME WAS BASED ON CAMERA TIMING DATA.

LATERAL VALUES WERE DETERMINED BY FILM ANALYSIS.

DYNAMIC CRUSH 18.7 +0R- 1 INCH AT 58. +0R- 5 MSEC.

Q. C. ANALYST

E. J. BACHMANN

GRAPHS - 6

EA12-005

CHRYSLER

12-13-2012

Enclosure 6B

301 Developmental Crash

Tests Public

KJ Development Crash Test

VC11439.FAR.UBR.FA_REPO

RT.UBR_UNDERBODY_REA

R Public

G L O S S A R Y O F T E R M S

U S E D I N S T A N D A R D R E P O R T S

AD	ANTHROPOMORPHIC DEVICE
ATD	ANTHROPOMORPHIC TEST DEVICE
BASE COORD	BASE COORDINATE SYSTEM
C/L	CENTERLINE
CAR COORD	CAR COORDINATE SYSTEM
CCW	COUNTER CLOCKWISE
CORR-IN	SEPARATION IN INCHES (MINUS INITIAL LENGTH)
CORR-MM	SEPARATION IN MM (MINUS INITIAL LENGTH)
CORR-P	CORRECTED (ZEROED) PITCH
CORR-R	CORRECTED (ZEROED) ROLL
CORR-Y	CORRECTED (ZEROED) YAW
CW	CLOCKWISE
EFI	ELECTRONIC FUEL INJECTOR
ENG	ENGINE
ENGPY	ENGINE PITCH AND YAW
FESM	FRONT END SHEET METAL
FIDUCIAL	REFERENCE POINT OR TARGET
FS	FRONT SILL TARGET
FWD	FORWARD
IP	INSTRUMENT PANEL TARGET
LBS	POUNDS
LCP,LQP	LEFT C-POST & QUARTER PANEL TARGETS
LFS,LMS,LRS	LEFT FRONT SILL, MID SILL, & REAR SILL TARGETS
LT	LEFT
MS	MID SILL TARGET
NORMALIZE	PUT ON A COMMON BASIS
NOSE-DOWN	LEADING END BELOW TRAILING
NOSE-UP	LEADING END ABOVE TRAILING
PERF	PERFORMANCE
REF	REFERENCE
REL	RELATIVE TO (ONE-DIMENSIONAL)
RCP,RQP	RIGHT C-POST & QUARTER PANEL TARGETS
RFS,RMS,RRS	RIGHT FRONT, MID, & REAR SILL TARGETS
ROLL-LEFT	LEFT SIDE LOWER THAN RIGHT
ROLL-RIGHT	RIGHT SIDE LOWER THAN LEFT
RS	REAR SILL TARGET
RT	RIGHT
SEP	SEPARATION OF (THREE-DIMENSIONAL)
SYS	SYSTEM
TBI	THROTTLE BODY INJECTOR
TIME.MS	TIME IN MILLISECONDS
U/B	UNDERBODY
VS	VERSUS
X	LONGITUDINAL AXIS (INCREASING TOWARD TRAILING EDGE)
XF	X-FILTERED
Y	LATERAL AXIS (INCREASING TO THE RIGHT)
YAW-LEFT	LEADING EDGE TO LEFT
YAW-RIGHT	LEADING EDGE TO RIGHT
Z	VERTICAL AXIS (INCREASING UPWARD)
ZEROED	SHIFTED TO START AT ZERO
ZERO-IN	ZEROED INCHES
ZERO-MM	ZEROED MILLIMETERS

IMPACT ANALYSIS
DEPARTMENT 5320
02/12/04 10:18
EAT2005-chrysler-004529

VC11439 48.3 KPH REAR (FULL) TYPE IV ITEM 4W [REDACTED]
 05 KJ, USA 301-REAR DEVELOPMENT TEST

ZEROED X OF MB1 RELATIVE TO U1 IN BASE COORD
 VERSUS TIME IN MILLISECONDS

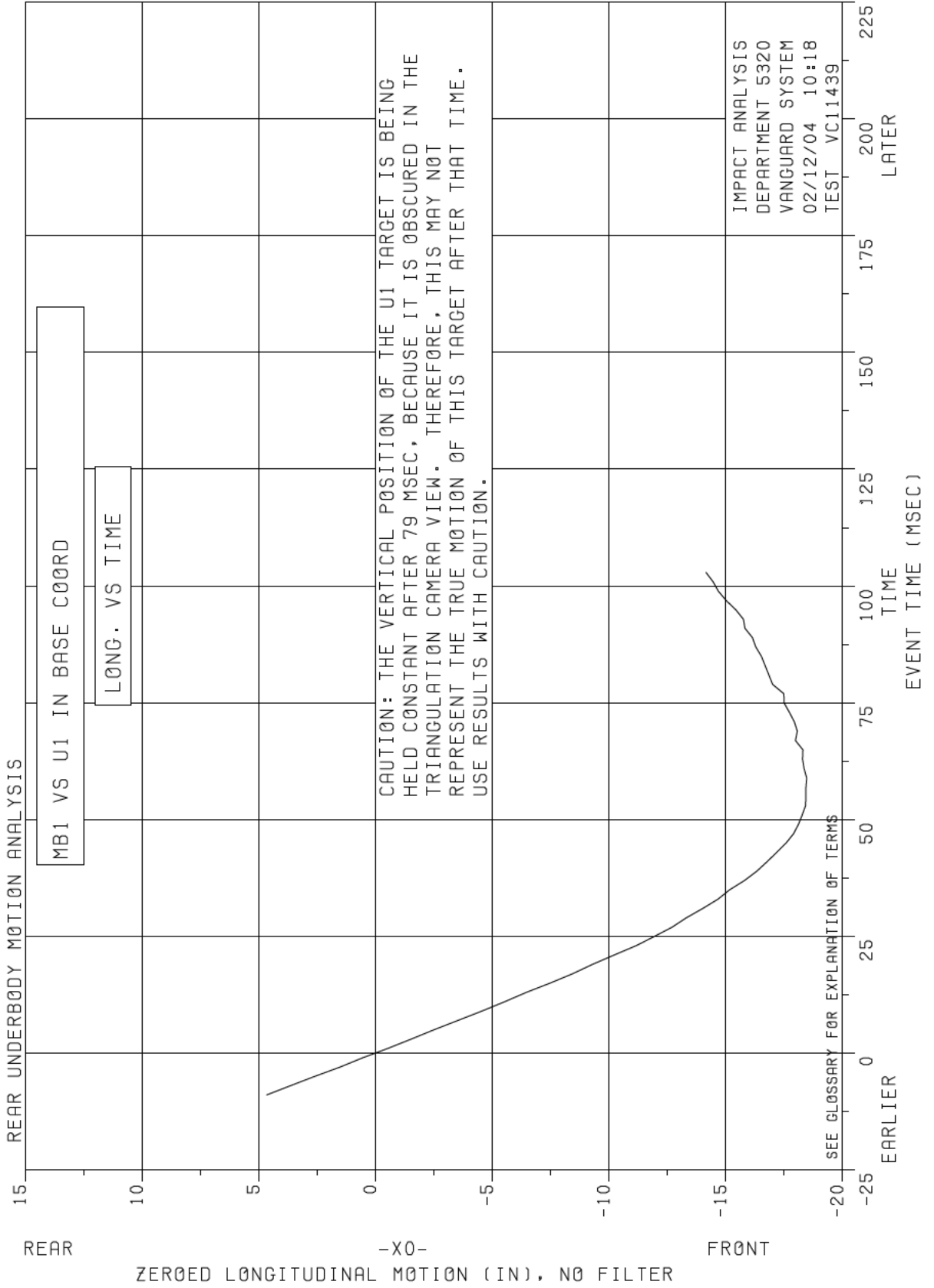


FIGURE 1

VC11439 48.3 KPH REAR (FULL) TYPE IV ITEM 4W [REDACTED]
 05 KJ, USA 301-REAR DEVELOPMENT TEST
 ZEROED X OF MB1 RELATIVE TO U13 IN CAR COORD
 VERSUS TIME IN MILLISECONDS
 REAR UNDERBODY MOTION ANALYSIS

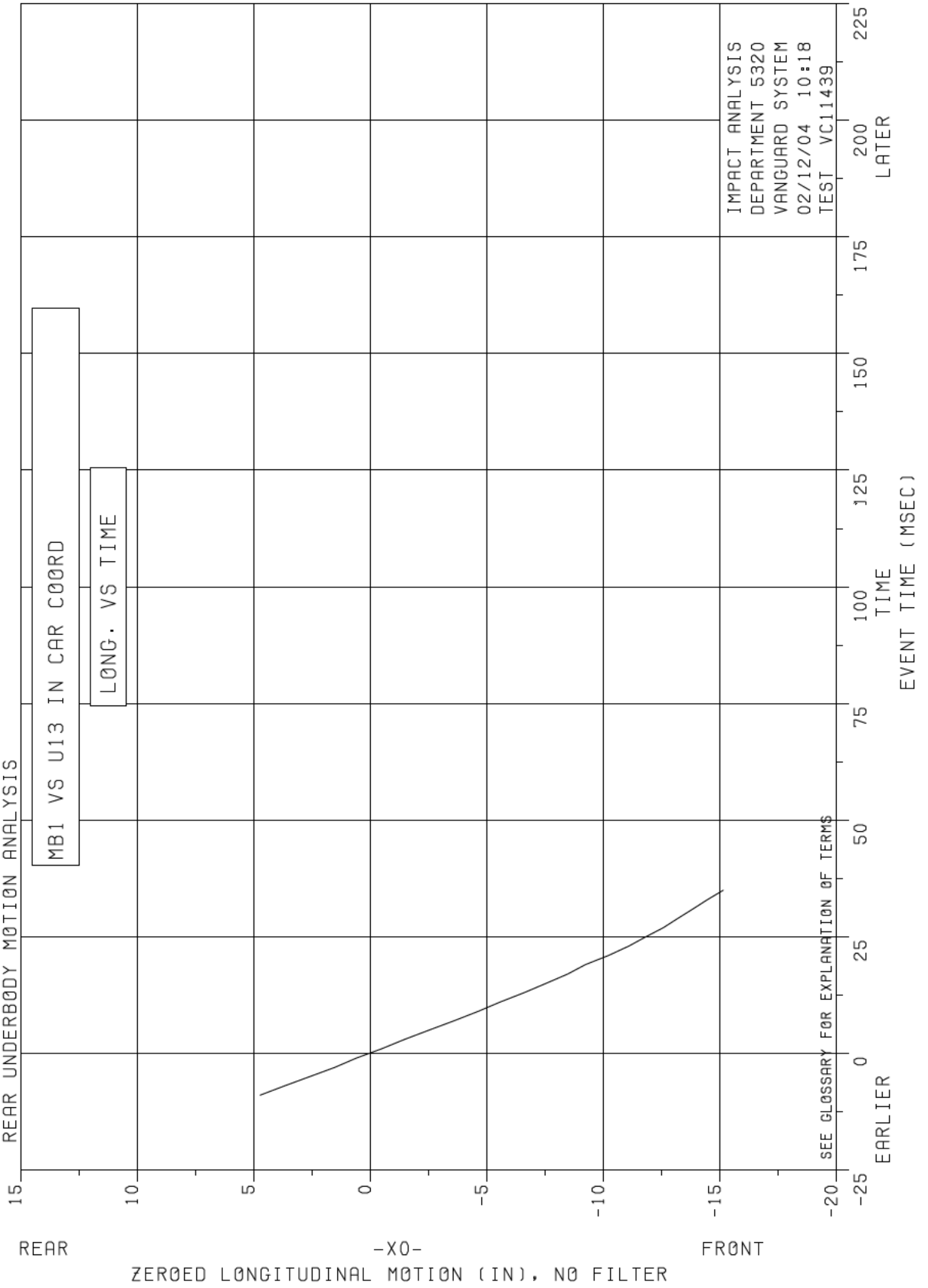


FIGURE 2

VC11439 48.3 KPH REAR (FULL) TYPE IV ITEM 4W [REDACTED]
05 KJ, USA 301-REAR DEVELOPMENT TEST

ZEROED X OF U13 RELATIVE TO U1 IN CAR COORD
VERSUS TIME IN MILLISECONDS

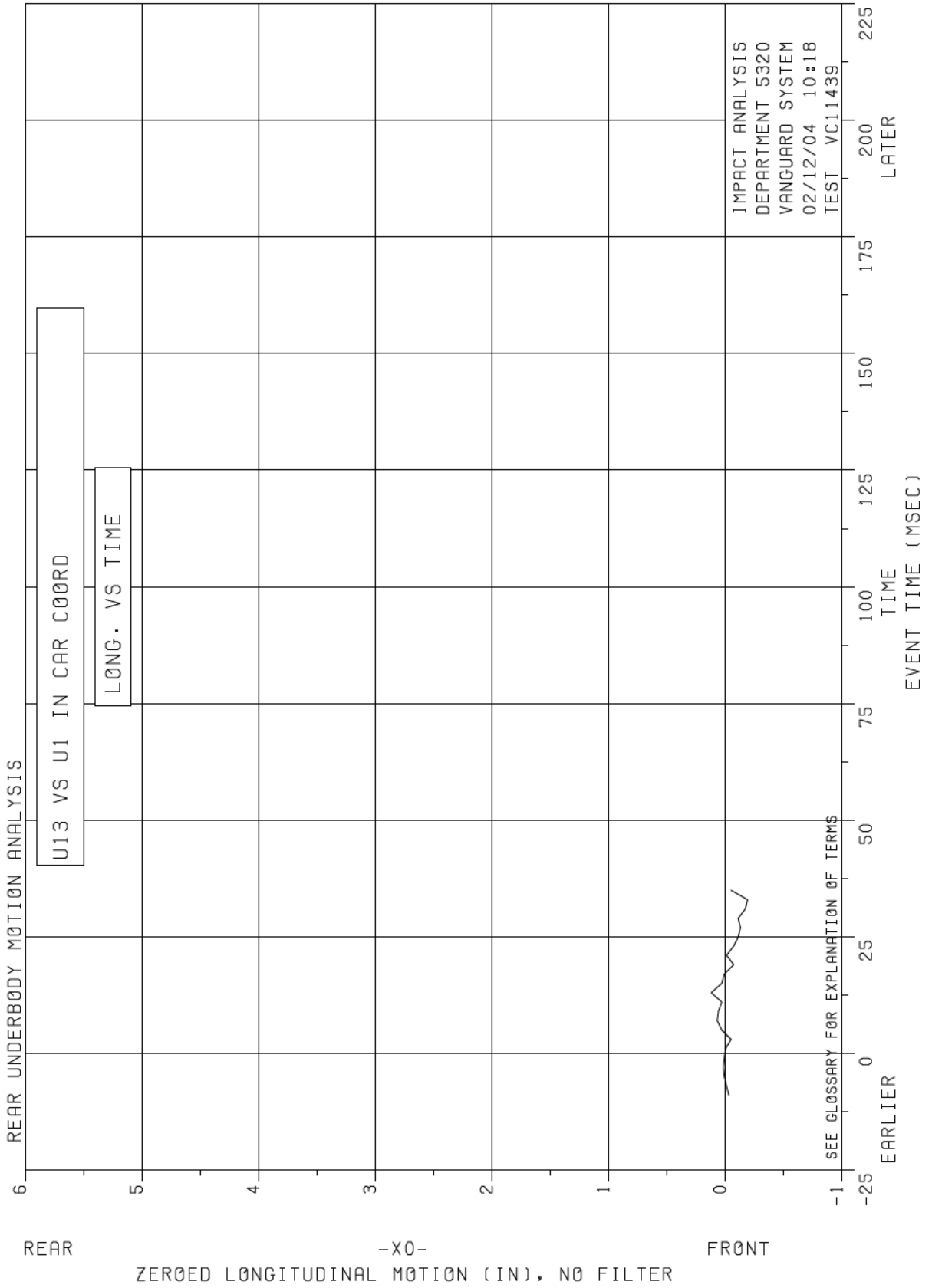


FIGURE 3

VC11439 48.3 KPH REAR (FULL) TYPE IV ITEM 4W [REDACTED]
 05 KJ, USA 301-REAR DEVELOPMENT TEST

ZEROED X OF MB2 RELATIVE TO U2 IN BASE COORD
 VERSUS TIME IN MILLISECONDS

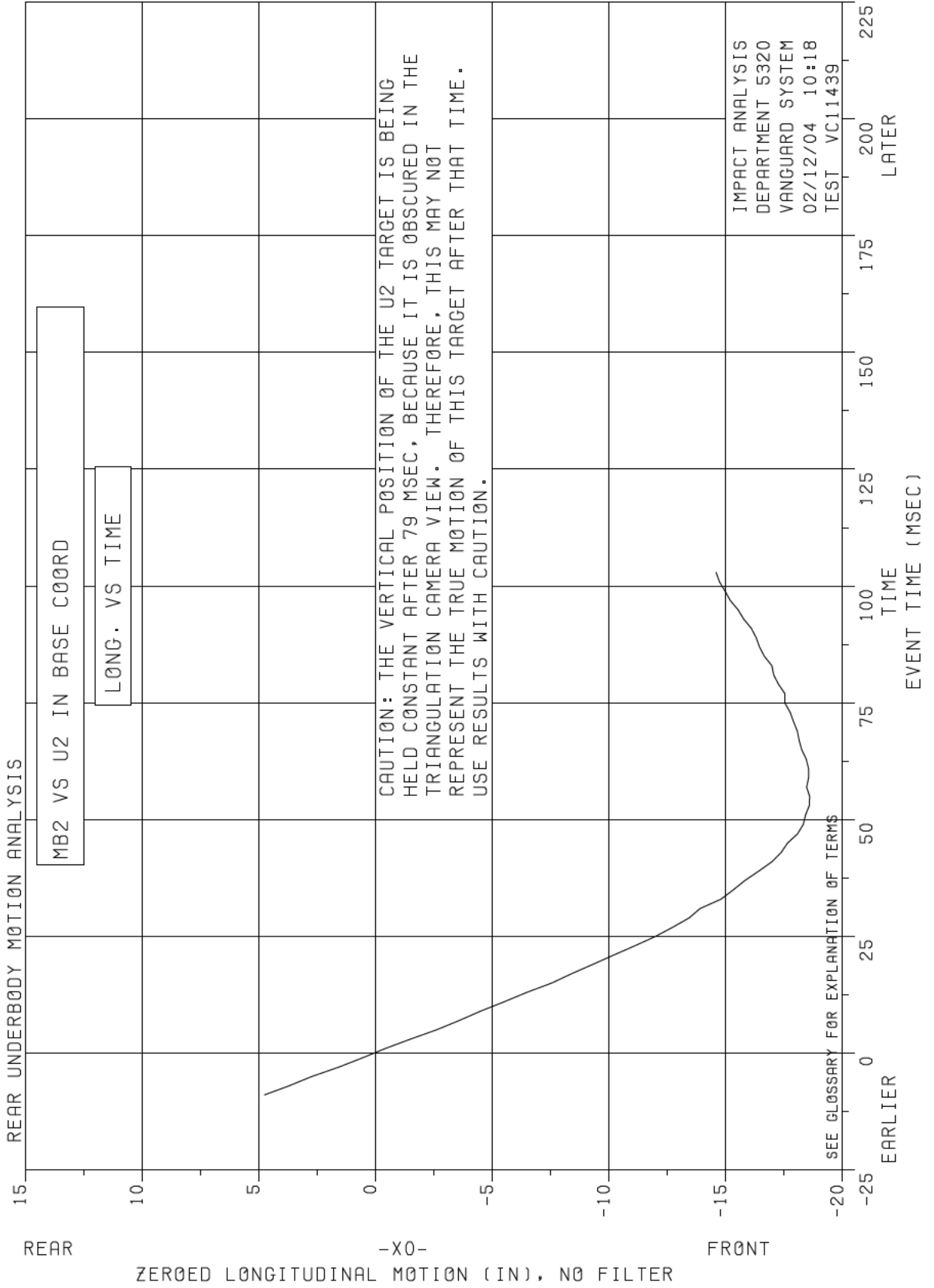
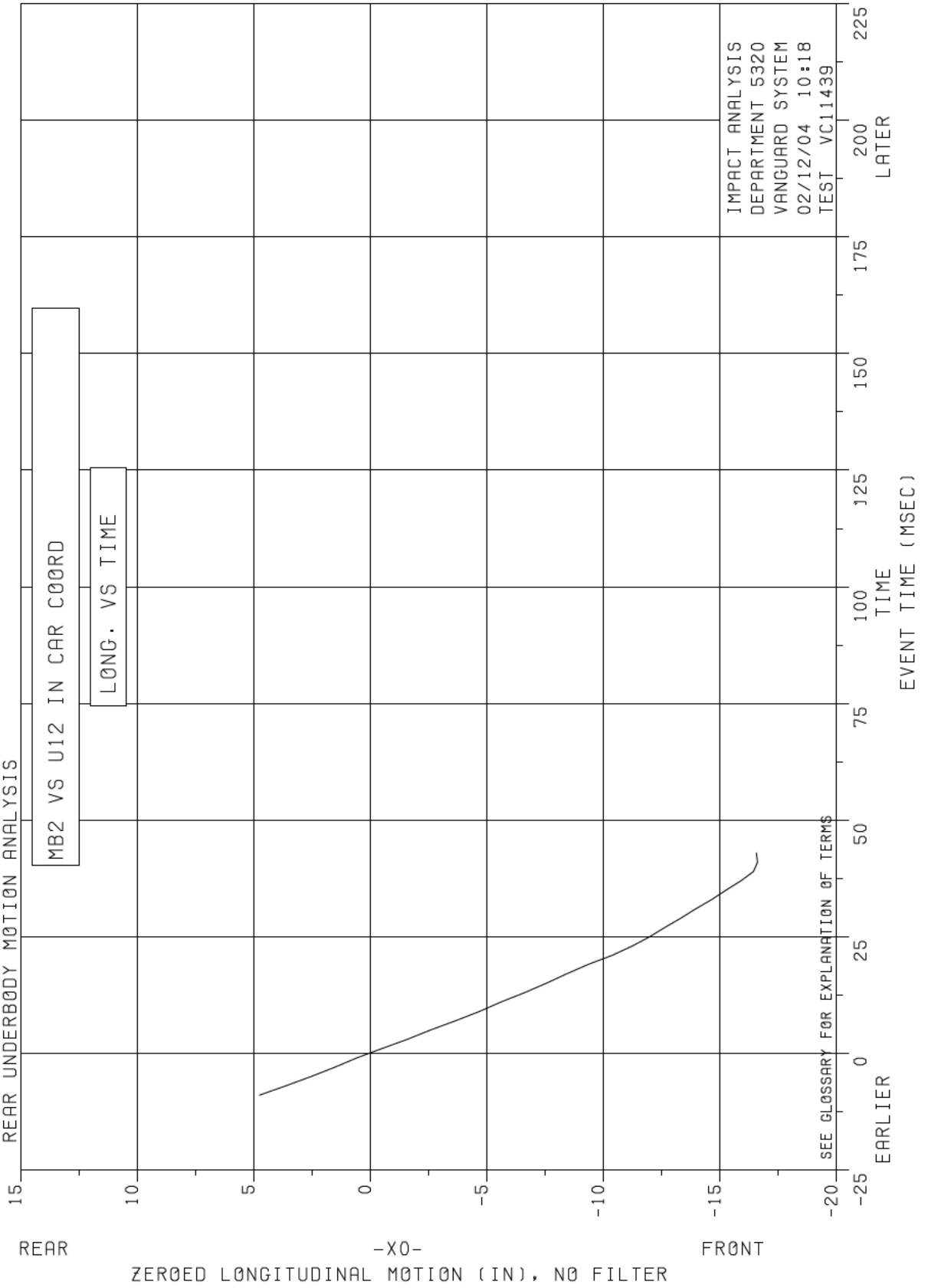


FIGURE 4

VC11439 48.3 KPH REAR (FULL) TYPE IV ITEM 4W
 05 KJ, USA 301-REAR DEVELOPMENT TEST
 ZEROED X OF MB2 RELATIVE TO U12 IN CAR COORD
 VERSUS TIME IN MILLISECONDS
 REAR UNDERBODY MOTION ANALYSIS

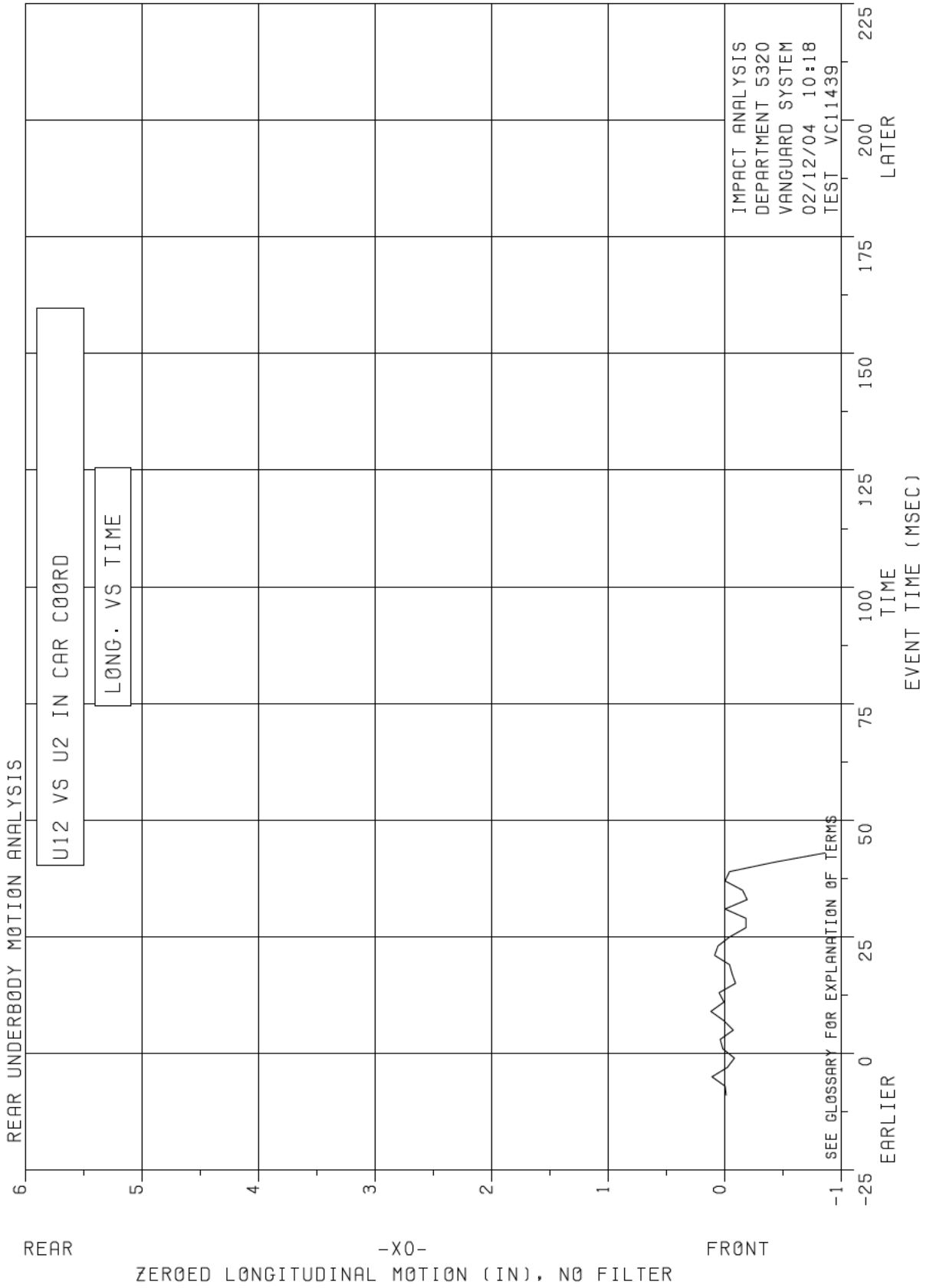


IMPACT ANALYSIS
 DEPARTMENT 5320
 VANGUARD SYSTEM
 02/12/04 10:18
 TEST VC11439

FIGURE 5

VC11439 48.3 KPH REAR (FULL) TYPE IV ITEM 4W [REDACTED]
 05 KJ, USA 301-REAR DEVELOPMENT TEST

ZEROED X OF U12 RELATIVE TO U2 IN CAR COORD
 VERSUS TIME IN MILLISECONDS



REAR

-X0-

FRONT

ZEROED LONGITUDINAL MOTION (IN), NO FILTER

FIGURE 6

VC11439 48.3 KPH REAR (FULL) TYPE IV ITEM 4W [REDACTED]
 05 KJ, USA 301-REAR DEVELOPMENT TEST

ZEROED X OF U5 RELATIVE TO U1 IN CAR COORD
 VERSUS TIME IN MILLISECONDS

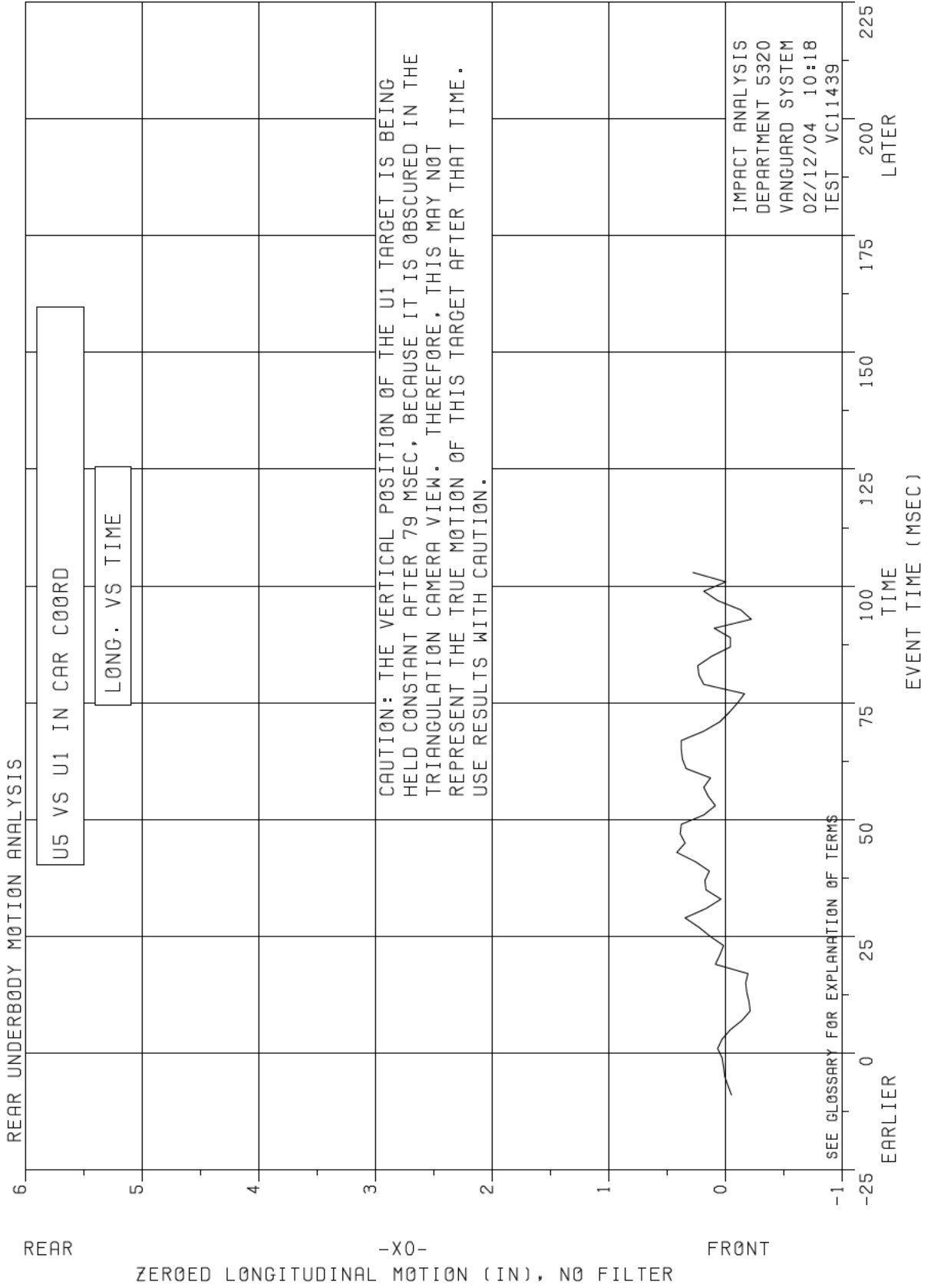


FIGURE 7

VC11439 48.3 KPH REAR (FULL) TYPE IV ITEM 4W [REDACTED]
 05 KJ, USA 301-REAR DEVELOPMENT TEST

ZEROED X OF U5 RELATIVE TO U2 IN CAR COORD
 VERSUS TIME IN MILLISECONDS

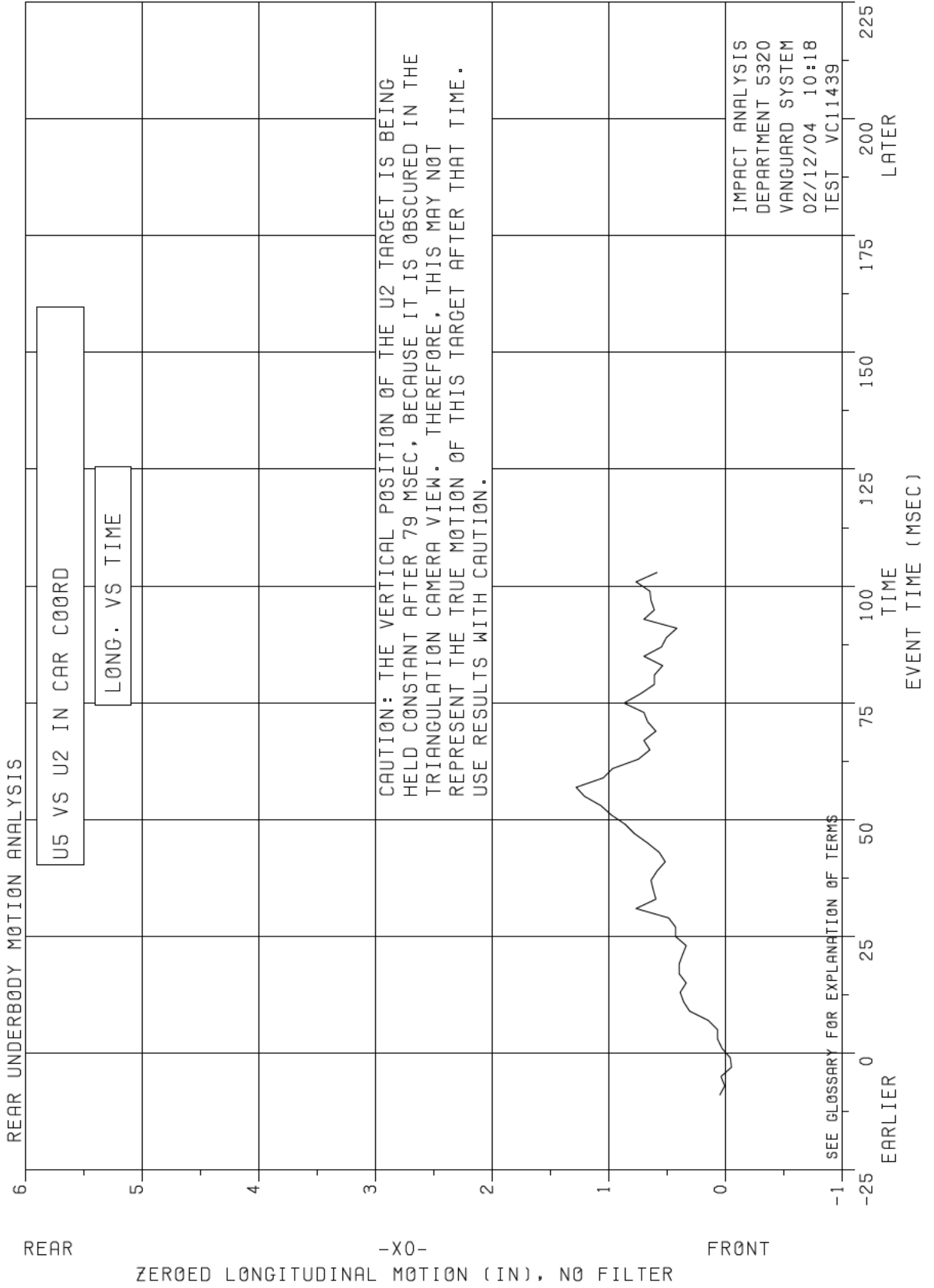


FIGURE 8

VC11439 48.3 KPH REAR (FULL) TYPE IV ITEM 4W [REDACTED]
 05 KJ, USA 301-REAR DEVELOPMENT TEST

ZEROED X OF U10 RELATIVE TO U1 IN CAR COORD
 VERSUS TIME IN MILLISECONDS

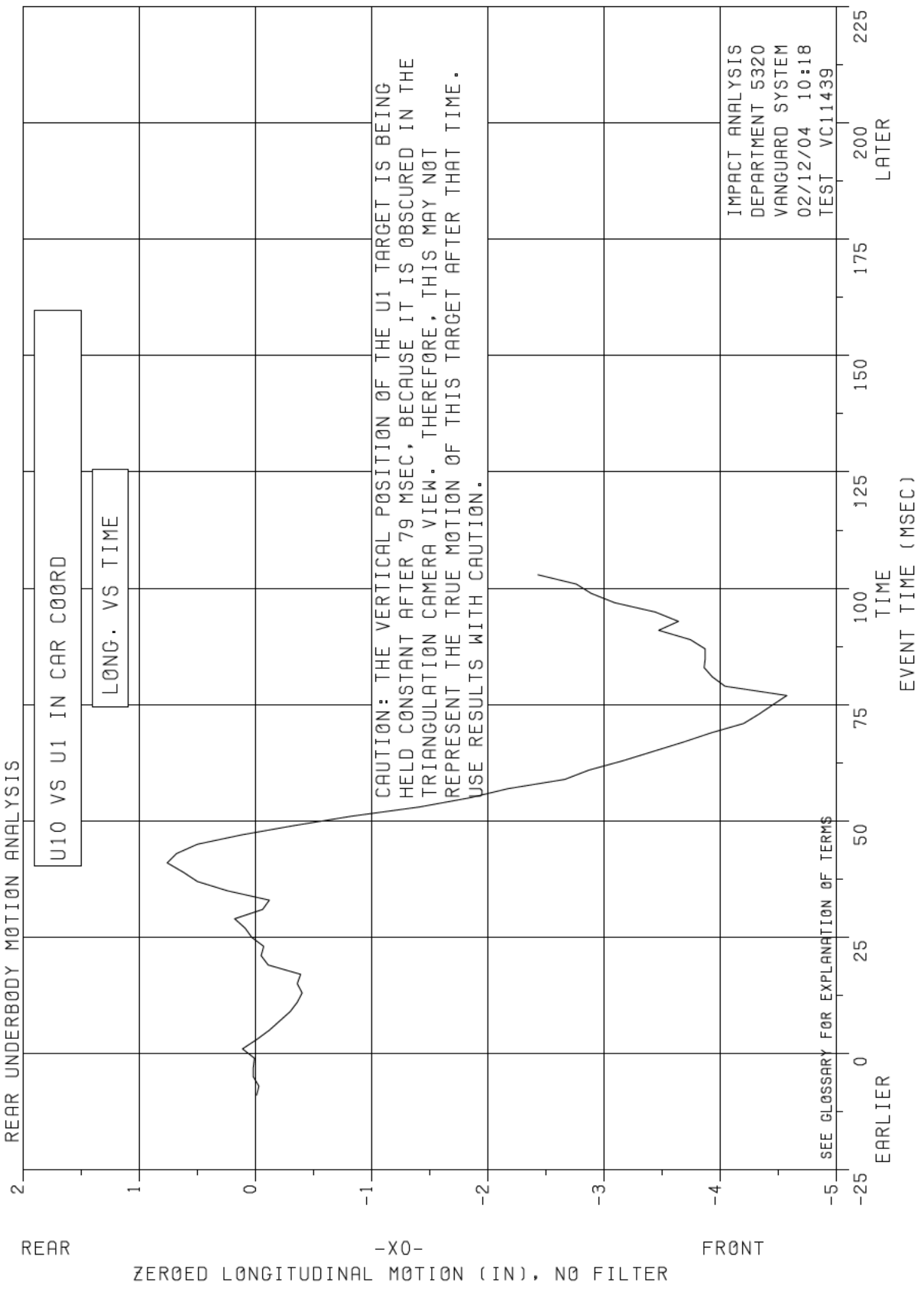


FIGURE 10

VC11439 48.3 KPH REAR (FULL) TYPE IV ITEM 4W [REDACTED]
 05 KJ, USA 301-REAR DEVELOPMENT TEST
 ZEROED PITCH OF U10 TO U8 IN CAR COORD SYSTEM
 VERSUS TIME IN MILLISECONDS
 REAR UNDERBODY MOTION ANALYSIS

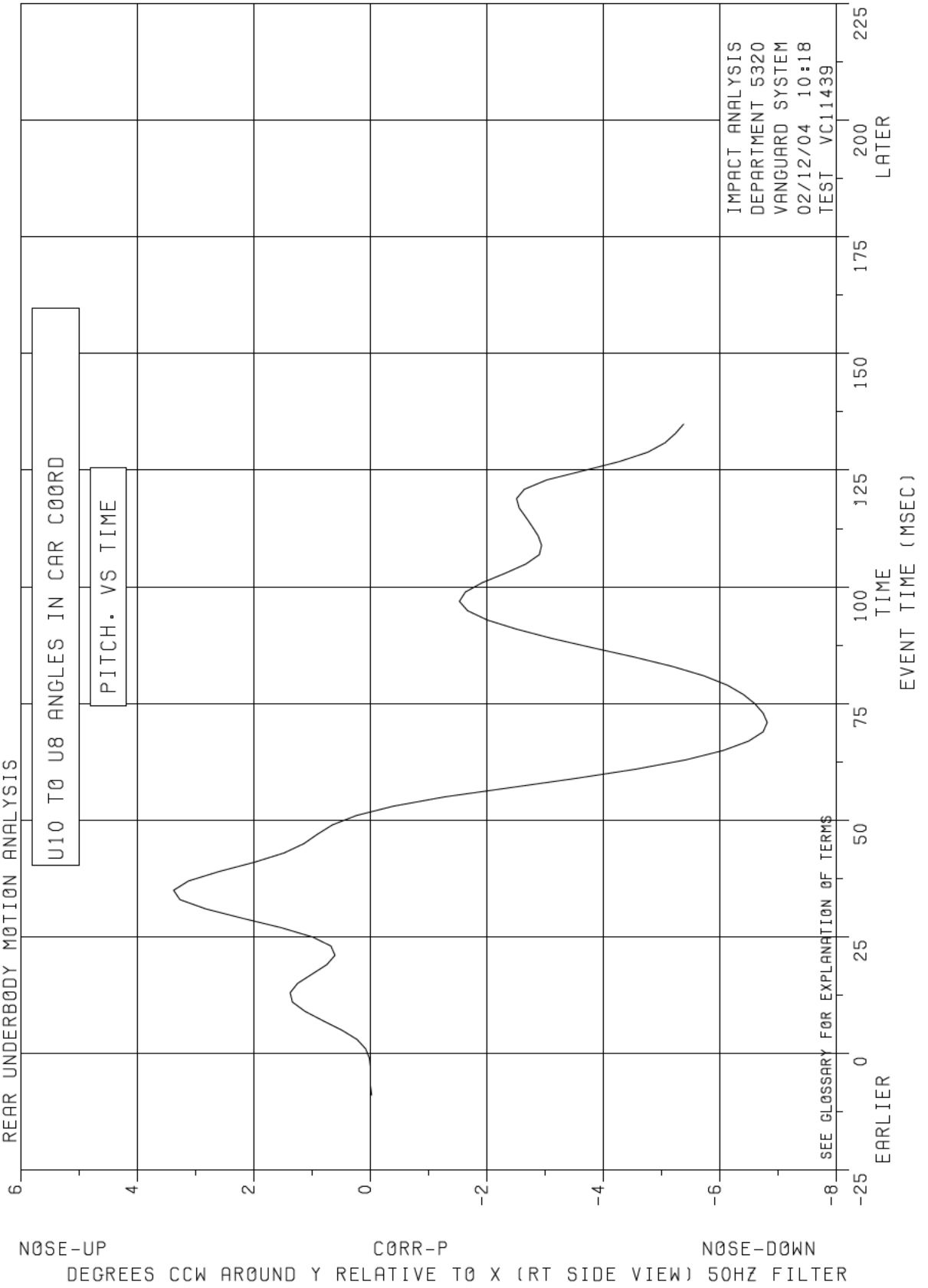


FIGURE 11

VC11439 48.3 KPH REAR (FULL) TYPE IV ITEM 4W
05 KJ, USA 301-REAR DEVELOPMENT TEST

ZEROED SEPARATION OF U10 AND U8 (IN)
VERSUS TIME IN MILLISECONDS

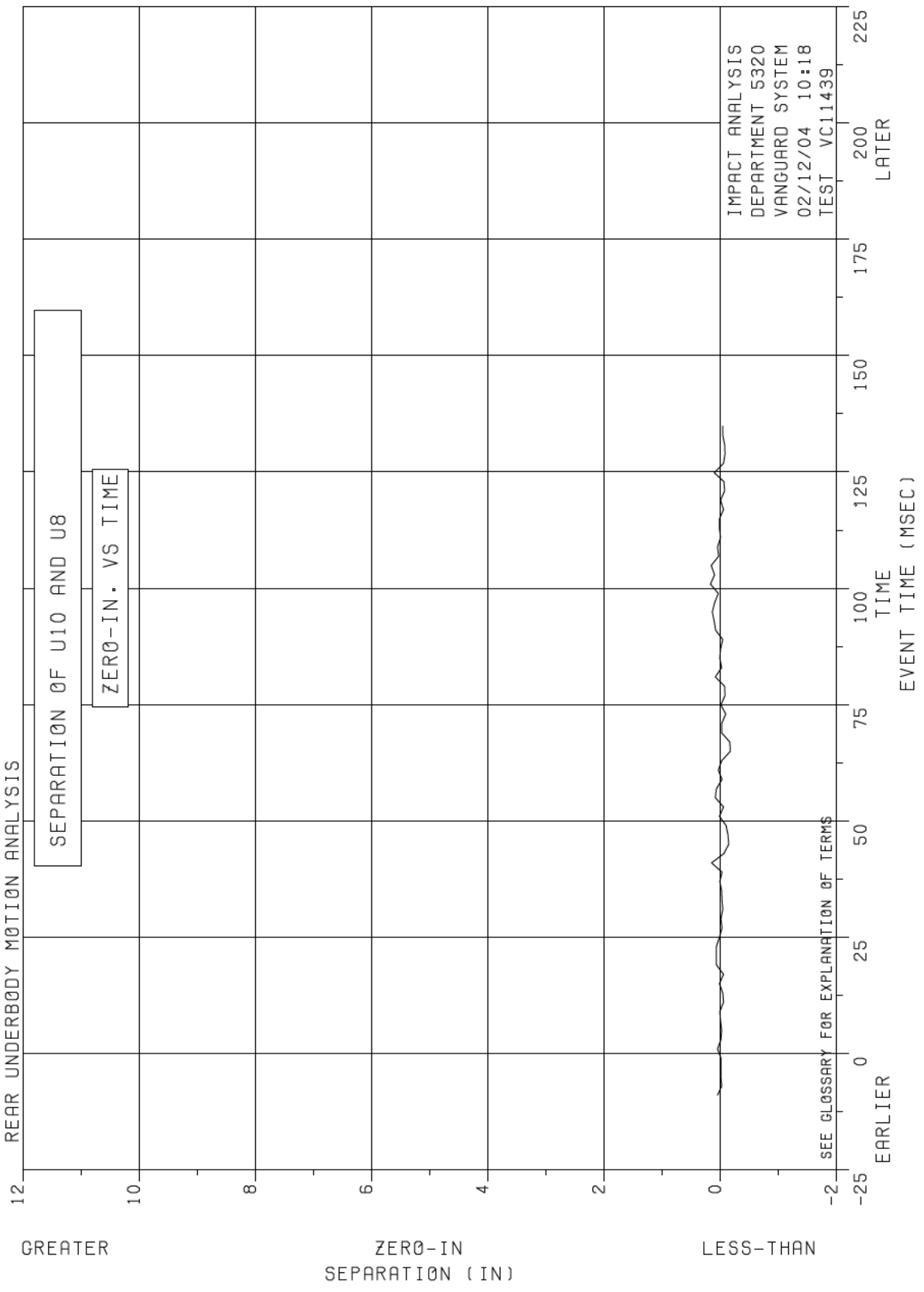


FIGURE 12

VC11439 48.3 KPH REAR (FULL) TYPE IV ITEM 4W [REDACTED]
 05 KJ, USA 301-REAR DEVELOPMENT TEST
 ZEROED PITCH OF U11 TO U9 IN CAR COORD SYSTEM
 VERSUS TIME IN MILLISEC
 REAR UNDERBODY MOTION ANALYSIS

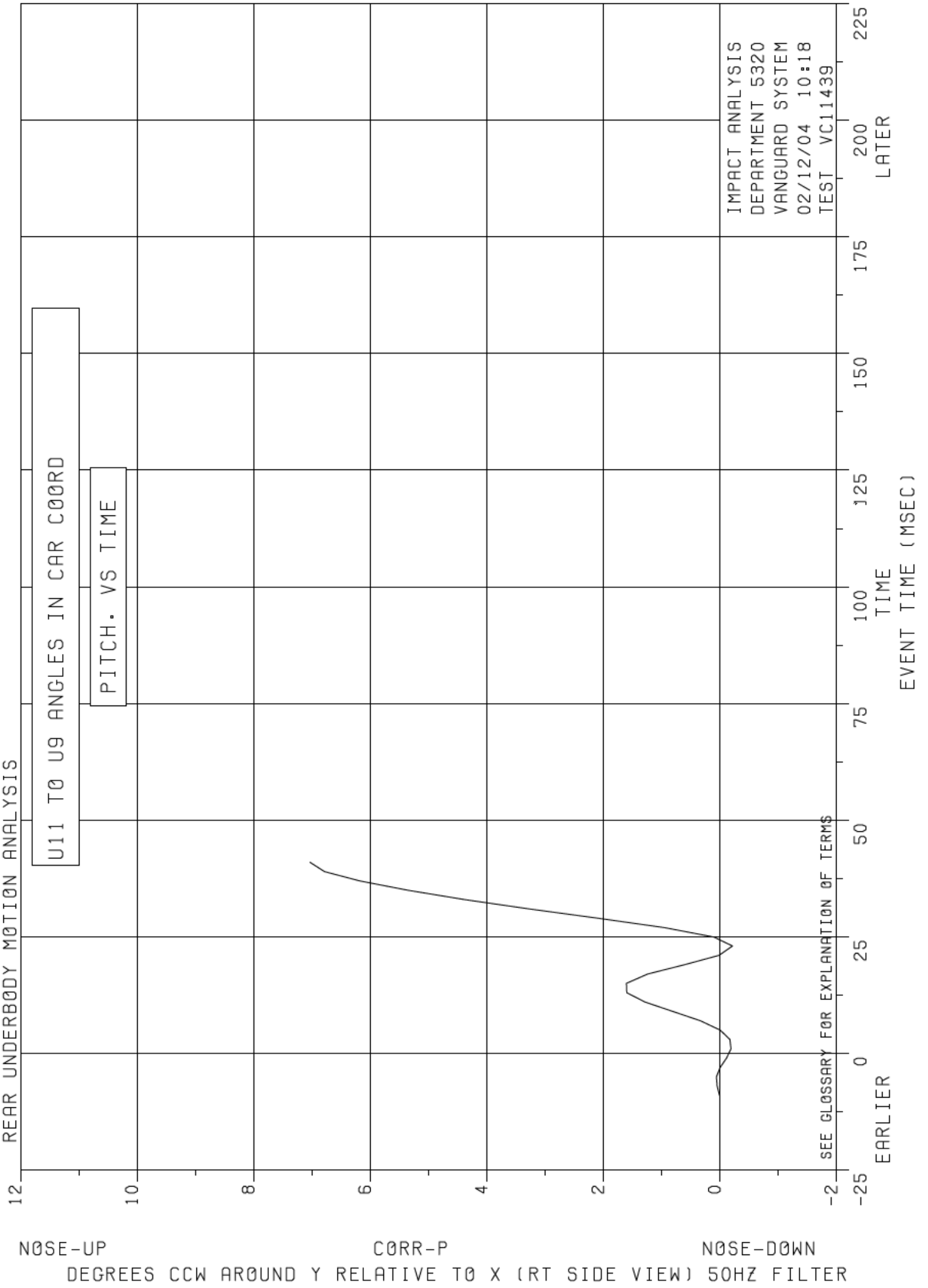


FIGURE 13

VC11439 48.3 KPH REAR (FULL) TYPE IV ITEM 4W [REDACTED]
 05 KJ, USA 301-REAR DEVELOPMENT TEST

ZEROED SEPARATION OF U11 AND U9 (IN)
 VERSUS TIME IN MILLISECONDS

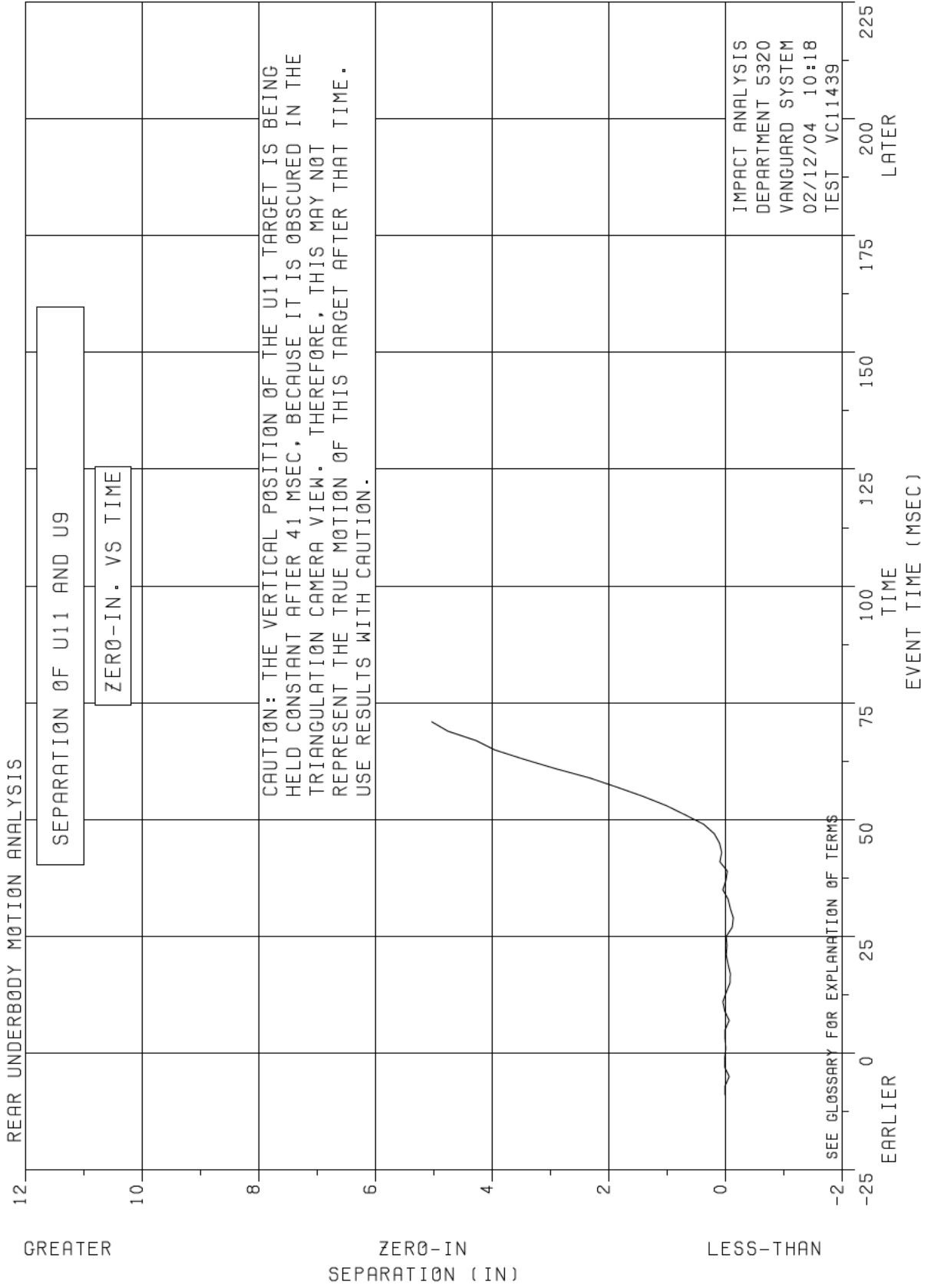


FIGURE 14

VC11439 48.3 KPH REAR (FULL) TYPE IV ITEM 4W [REDACTED]
 05 KJ, USA 301-REAR DEVELOPMENT TEST
 ZEROED X OF U3 RELATIVE TO U1 IN CAR COORD
 VERSUS TIME IN MILLISECONDS

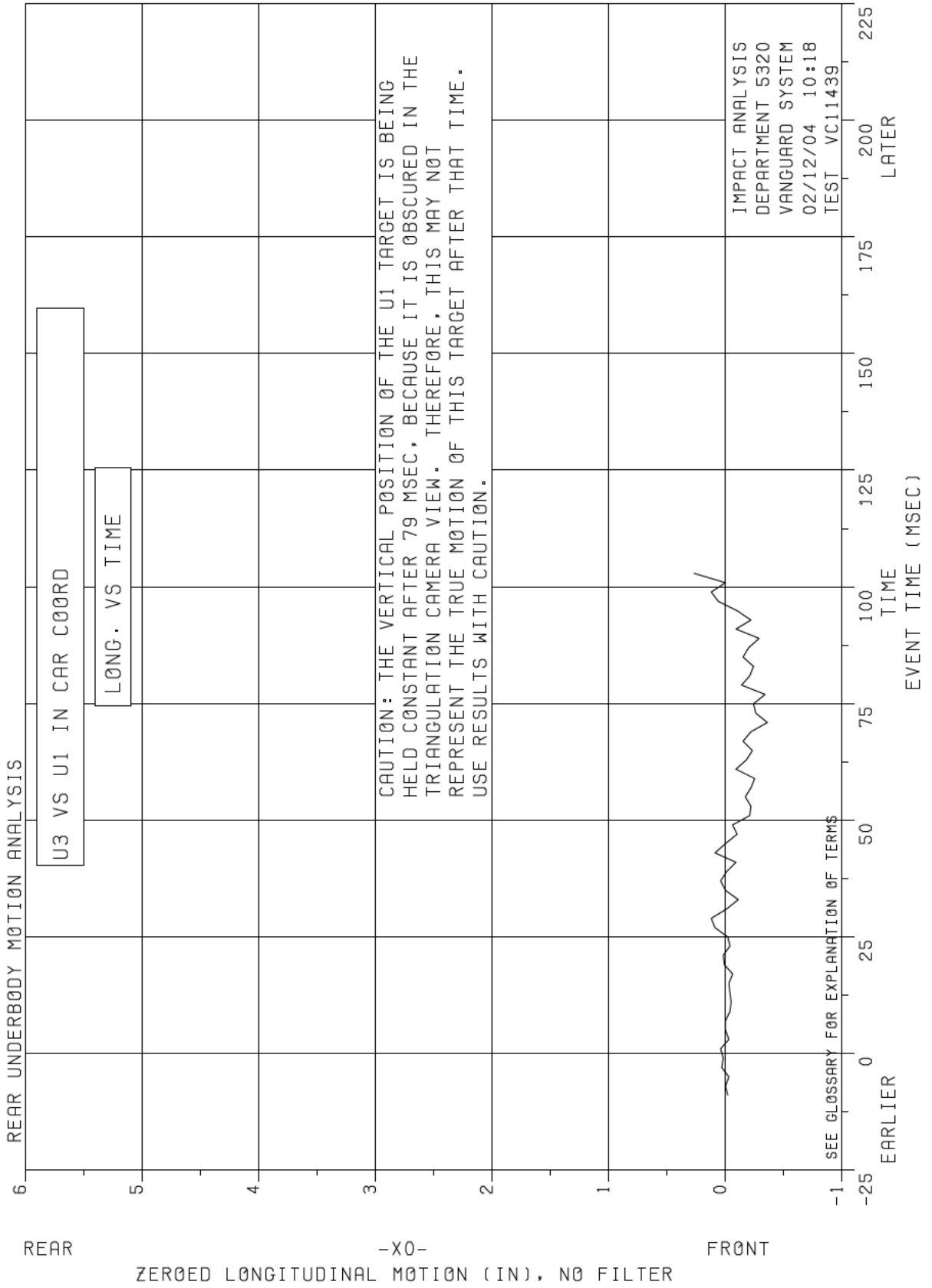


FIGURE 15

VC11439 48.3 KPH REAR (FULL) TYPE IV ITEM 4W [REDACTED]
 05 KJ, USA 301-REAR DEVELOPMENT TEST

ZEROED X OF U4 RELATIVE TO U1 IN CAR COORD
 VERSUS TIME IN MILLISECONDS

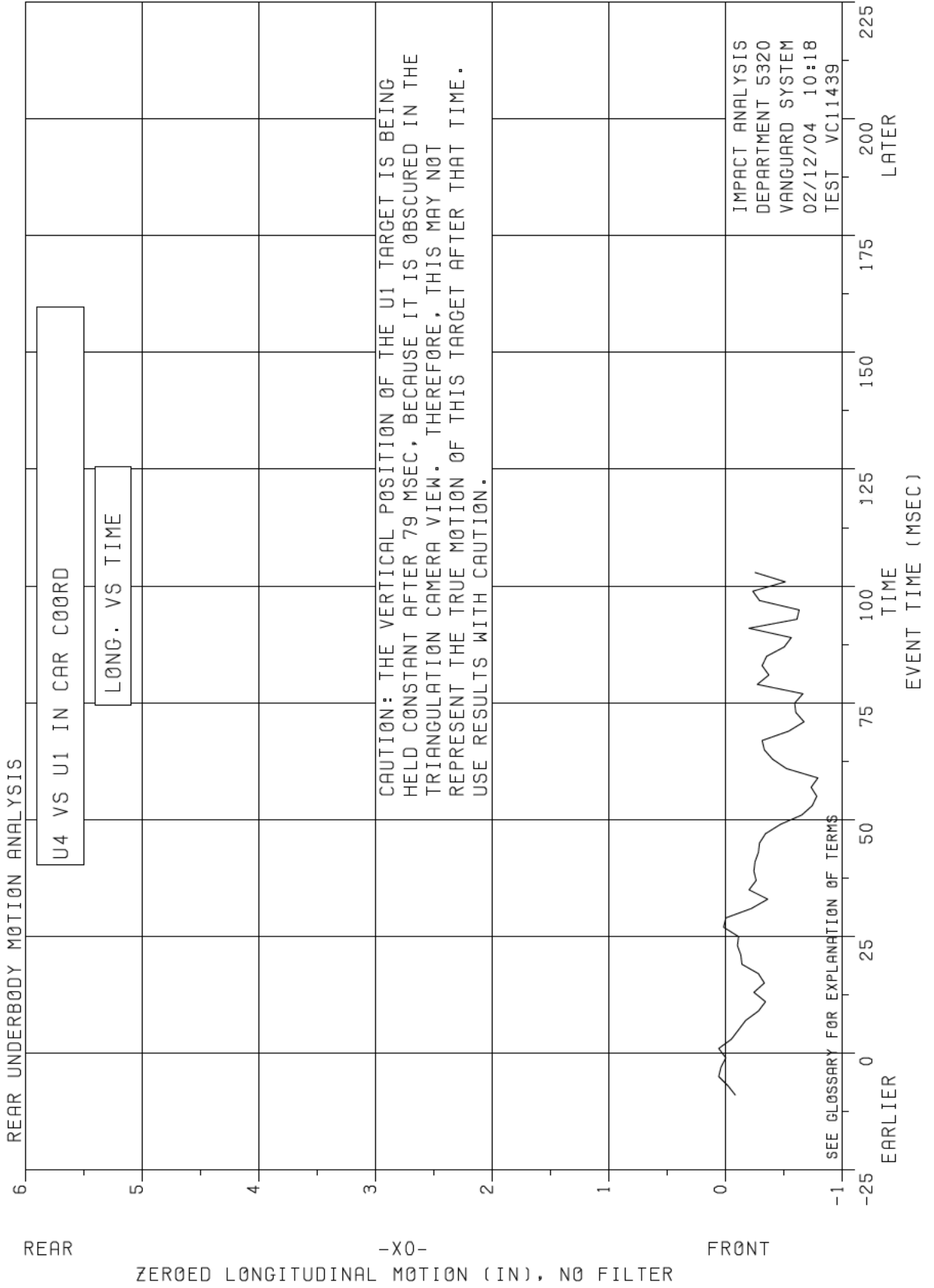


FIGURE 16

VC11439 48.3 KPH REAR (FULL) TYPE IV ITEM 4W [REDACTED]
 05 KJ, USA 301-REAR DEVELOPMENT TEST

ZEROED X OF UC1 RELATIVE TO U1 IN BASE COORD
 VERSUS TIME IN MILLISECONDS

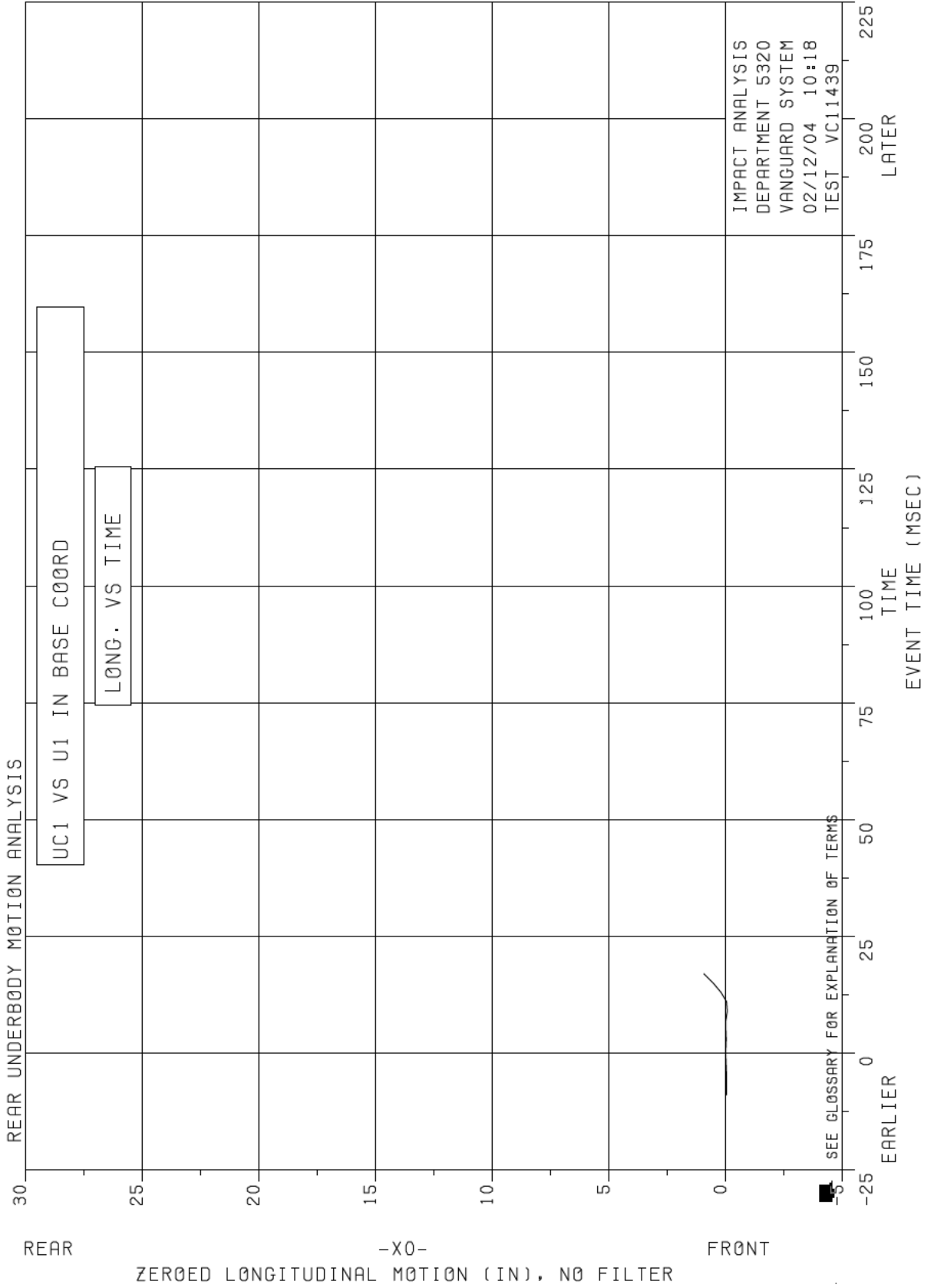


FIGURE 17

VC11439 48.3 KPH REAR (FULL) TYPE IV ITEM 4W [REDACTED]
 05 KJ, USA 301-REAR DEVELOPMENT TEST

ZEROED X OF UC1 RELATIVE TO U2 IN BASE COORD
 VERSUS TIME IN MILLISEC

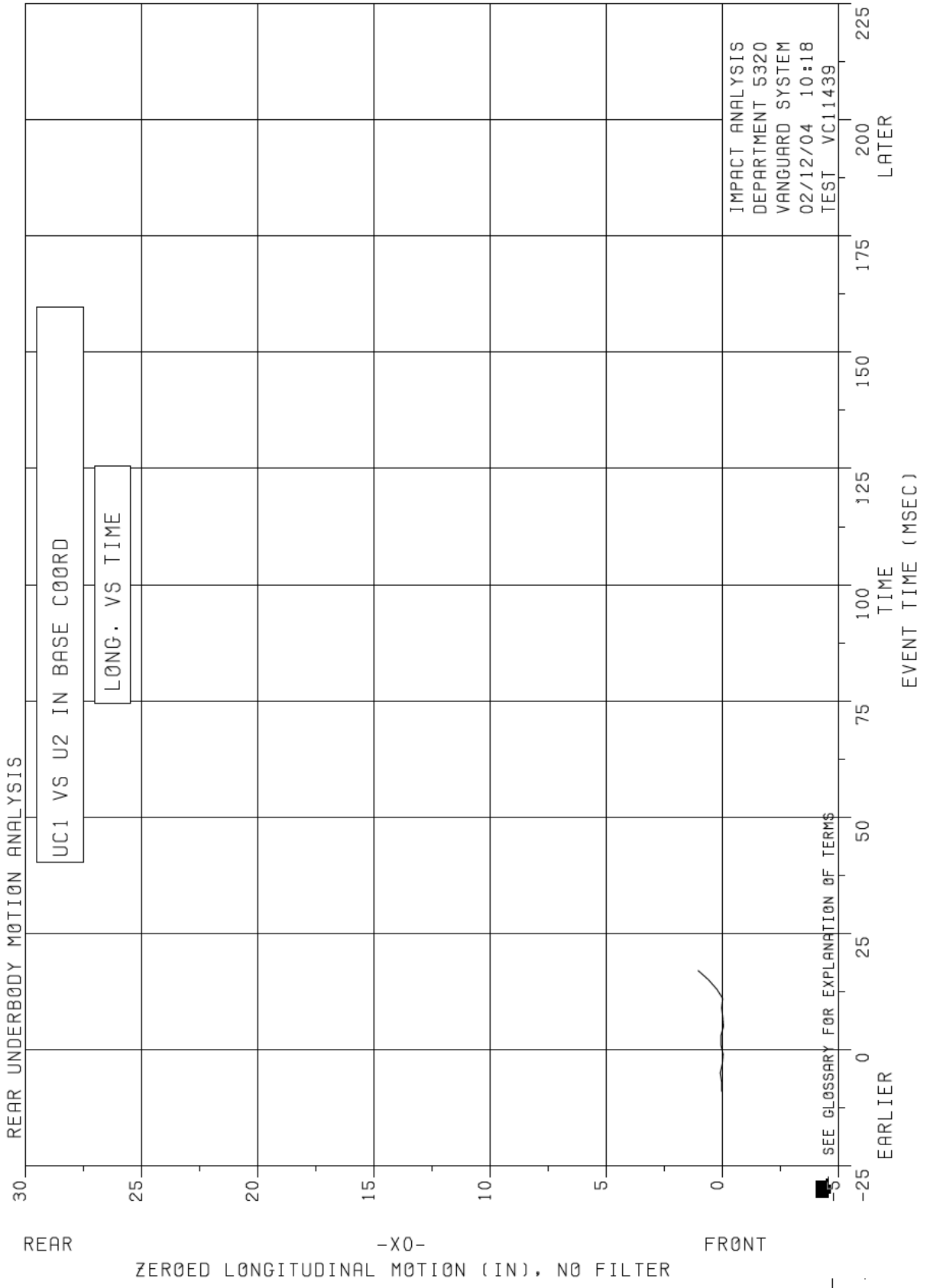


FIGURE 18

VC11439 48.3 KPH REAR (FULL) TYPE IV ITEM 4W [REDACTED]
 05 KJ, USA 301-REAR DEVELOPMENT TEST
 ZEROED YAW OF U1 TO U2 IN BASE COORD SYSTEM
 VERSUS TIME IN MILLISECONDS
 REAR UNDERBODY MOTION ANALYSIS

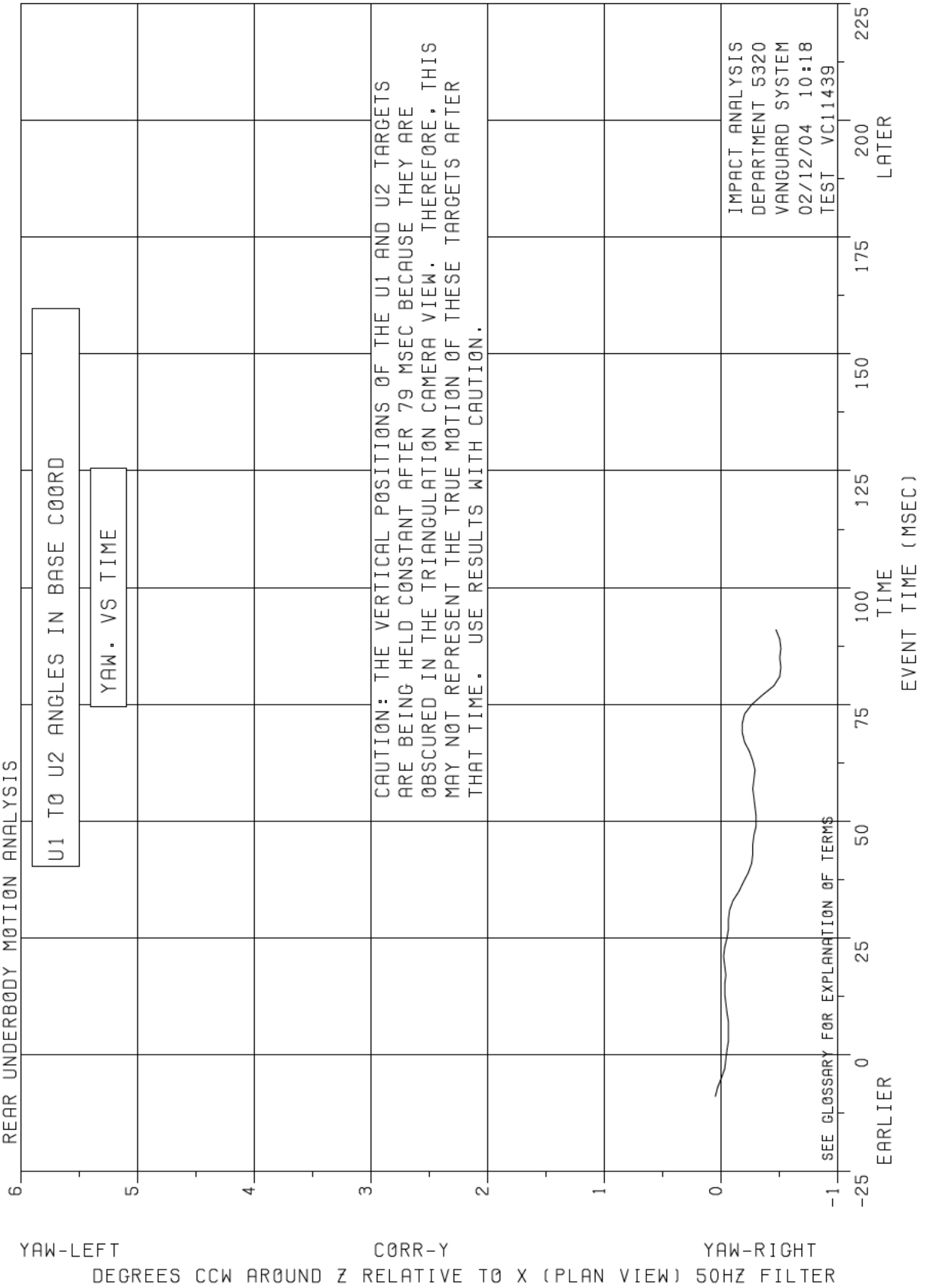


FIGURE 19

VC11439 48.3 KPH REAR (FULL) TYPE IV ITEM 4W [REDACTED]
 05 KJ, USA 301-REAR DEVELOPMENT TEST
 MB1 TO MB2 DISTANCE, -37.66 INCHES (INITIAL DIST) (IN)
 VERSUS TIME IN MILLISECONDS
 REAR UNDERBODY MOTION ANALYSIS

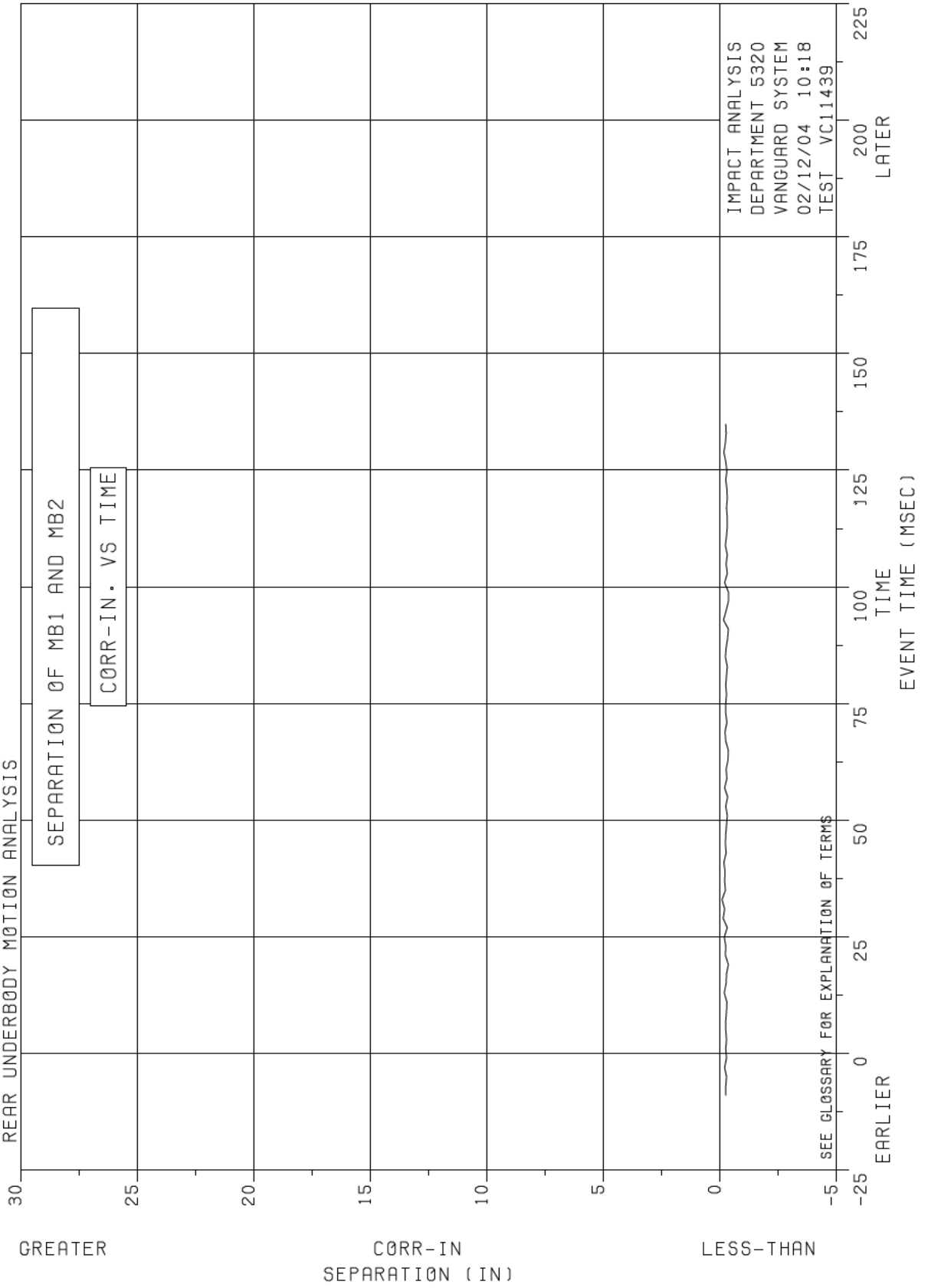


FIGURE 20

VC11439 48.3 KPH REAR (FULL) TYPE IV ITEM 4W
 05 KJ, USA 301-REAR DEVELOPMENT TEST
 ZEROED PITCH OF SILL VECTOR IN BASE COORD SYSTEM
 VERSUS TIME IN MILLISECONDS
 REAR UNDERBODY MOTION ANALYSIS

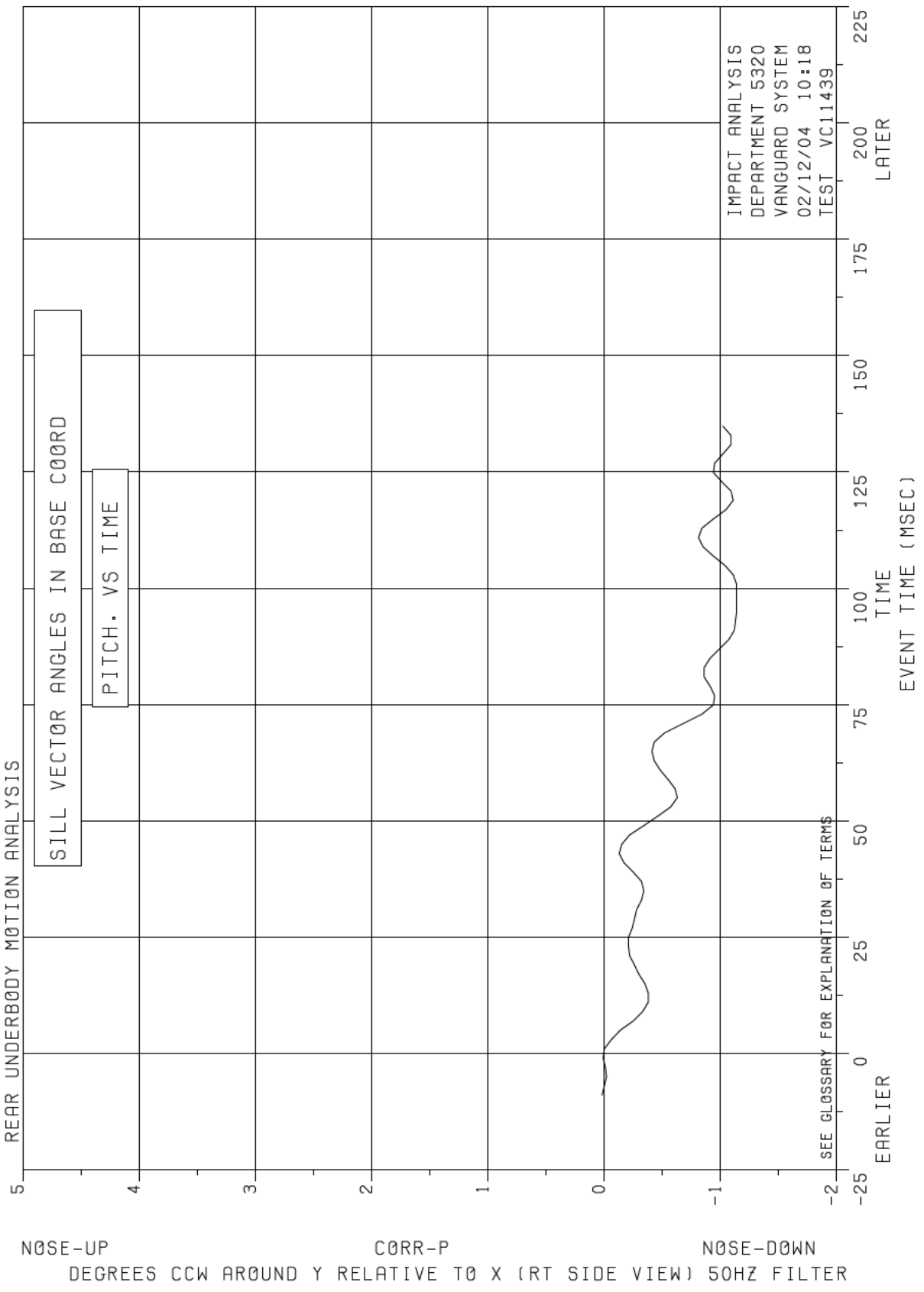


FIGURE 21

VC11439 48.3 KPH REAR (FULL) TYPE IV ITEM 4W [REDACTED]
 05 KJ, USA 301-REAR DEVELOPMENT TEST
 U1 TO U2 DISTANCE -37.21 INCHES (INITIAL DIST) (IN)
 VERSUS TIME IN MILLISECONDS
 REAR UNDERBODY MOTION ANALYSIS

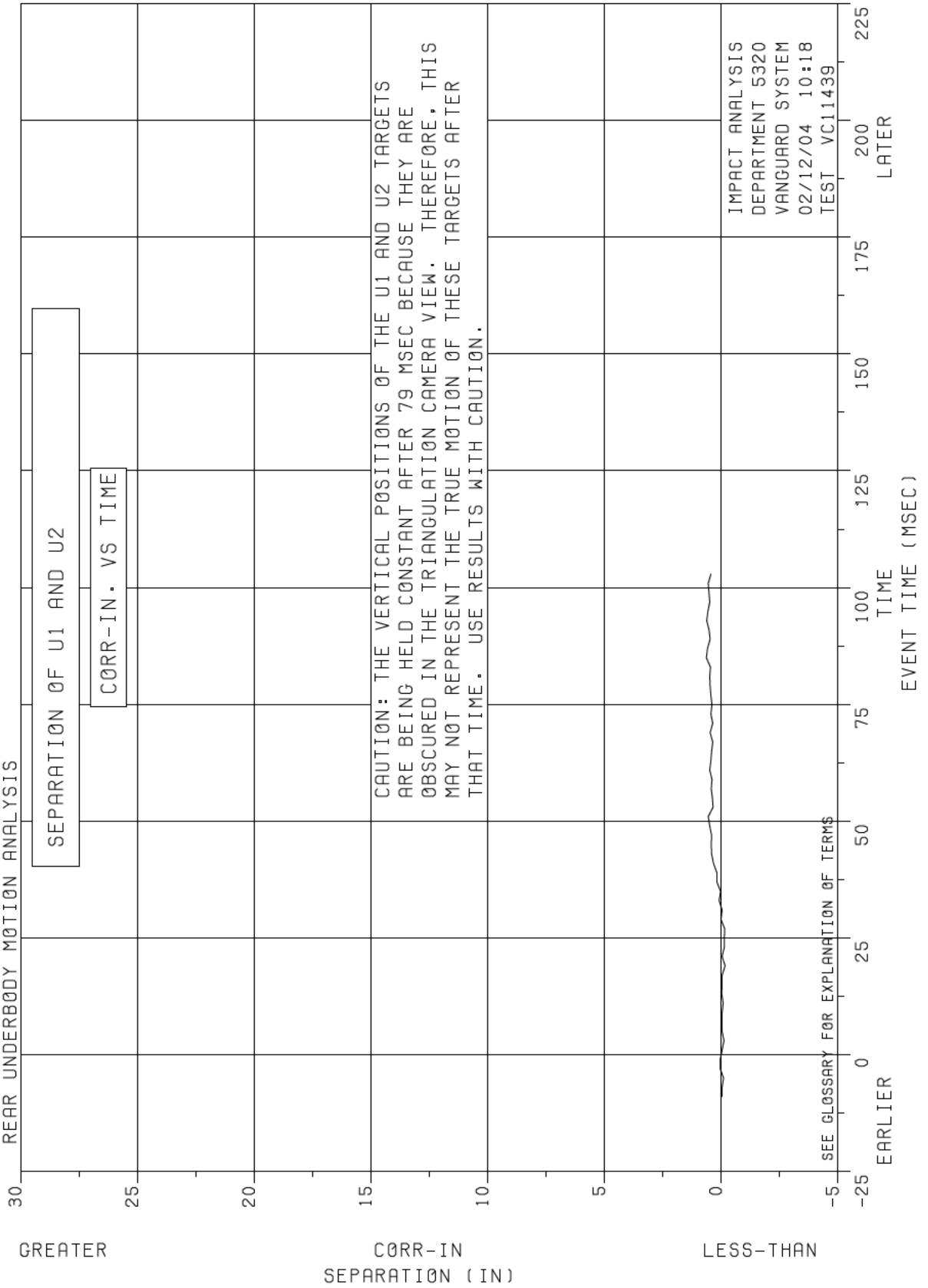


FIGURE 24

VC11439 48.3 KPH REAR (FULL) TYPE IV ITEM 4W
 05 KJ, USA 301-REAR DEVELOPMENT TEST
 LFS TO LMS DISTANCE, -29.73 INCHES (INITIAL DIST) (IN)
 VERSUS TIME IN MILLISECONDS
 REAR UNDERBODY MOTION ANALYSIS

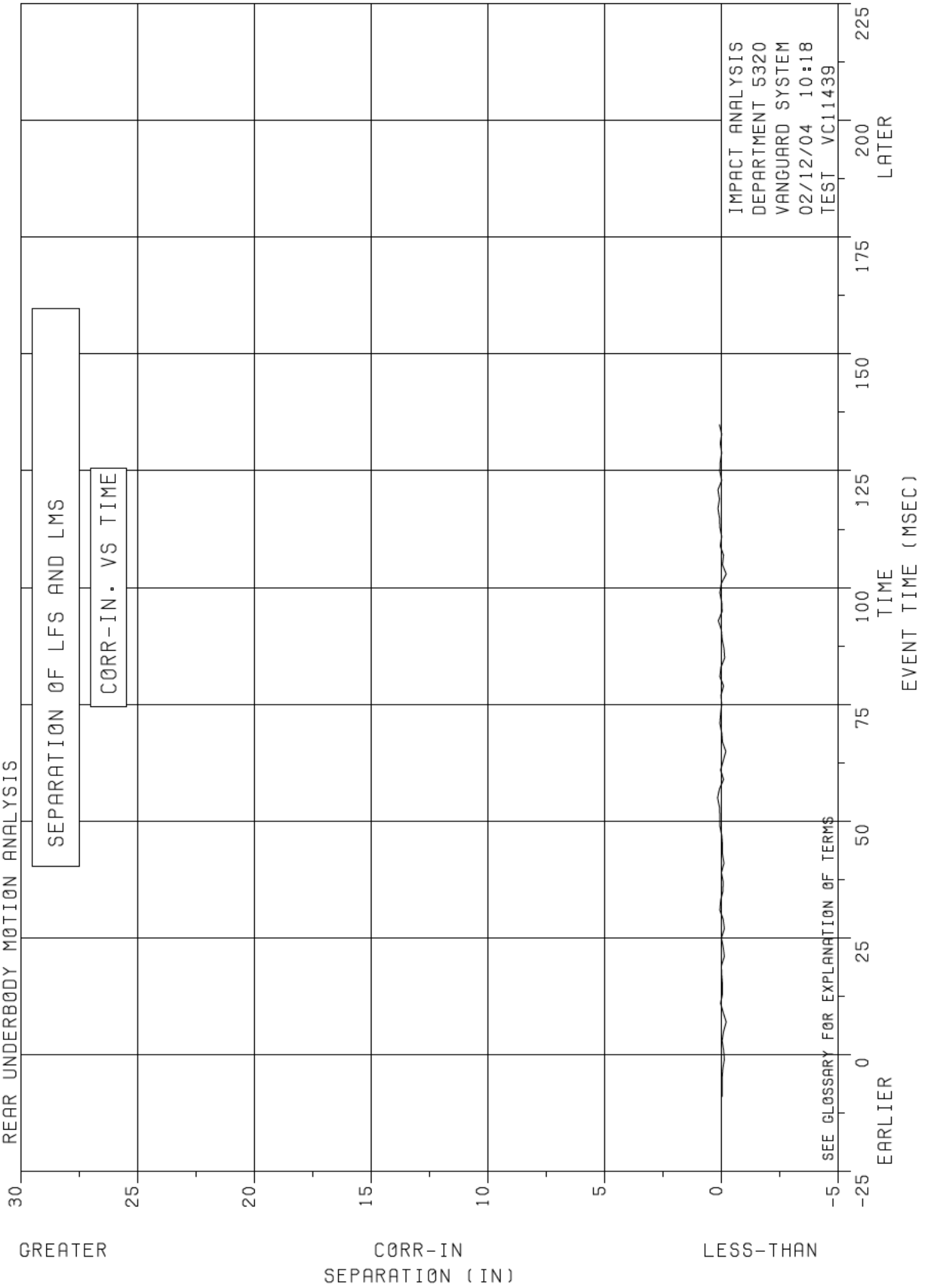


FIGURE 25

INTER COMPANY CORRESPONDENCE

DATE 02/12/04

TO
DISTRIBUTION

FROM
E. J. BACHMANN

DEPARTMENT
5320

PLANT/OFFICE
CTC

CIMS NUMBER
481-00-27

SUBJECT:
REAR UNDERBODY MOTION ANALYSIS
VC11439 48.3 KPH REAR (FULL) TYPE IV ITEM 4W [REDACTED]
05 KJ, USA 301-REAR DEVELOPMENT TEST
TEST DATE 02/06/04

TEST SITE CPG

TEST PURPOSE PRIMARY, 2005 USA 301-REAR DEVELOPMENT

IMPACT TYPE TARGET SPEED; 48.3 KPH
DAMAGE LOCATION; REAR (FULL)
BARRIER TYPE; REAR TYPE IV
BARRIER SURFACE; PLYWOOD

VEHICLE BODY CLASS; KJ
CAR LINE; J
BODY; 74
ENGINE; 3.7 LITER
ENGINE NOTE;
TRANSMISSION; 6 SPEED MANUAL
TRANS. NOTE;
VIN AS TESTED; 1J4GL38K54W [REDACTED] MOD.
VIN AS BUILT; 1J4GL38K54W [REDACTED] MOD.

TEST SPEED 48.79 KPH BY TRAP AVERAGE

TEST WEIGHT (KG) 2231 TOTAL, 1161 FRONT, 1070 REAR

OCCUPANTS 1L - 50TH MALE BALLAST HYBRID 2, 0 - CH AD-60
RESTRAINT- 3-PT UNIBELT ONLY
1R - 50TH MALE BALLAST HYBRID 2, 0 - CH AD-59
RESTRAINT- 3-PT UNIBELT ONLY

BUILD CONDITION

TARGET WEIGHT (KG) 2231 TOTAL, 1160 FRONT, 1071 REAR
INCLUDING BALLAST AND OCCUPANTS

FUEL AND BALLAST 73.8 LITERS STODDARD SOLVENT

TEST VC11439 02/12/04 10:18 PAGE 1 OF 2

136.1 KG BALLAST WEIGHT SECURED IN CARGO AREA
206.4 KG ADDITIONAL BALLAST WEIGHT ADDED
330LBS 2-BALLAST 50TH MALE 2ND ROW
50LBS 1L FLOOR PAN
75LBS 1R FLOOR PAN

DATA FOR THIS ANALYSIS WAS DIGITIZED BY S. D. AMUNDSEN.

THE RELATIVE MOTIONS OF SELECTED REAR UNDERBODY TARGETS HAVE BEEN DETERMINED BY FILM ANALYSIS. TIME WAS BASED ON CAMERA TIMING DATA.

CAUTION:
THE FOLLOWING TARGETS HAVE VERTICAL DATA THAT IS EITHER INTERPOLATED OR HELD CONSTANT DURING PART OF THIS ANALYSIS. SEE CAUTION NOTE ON PLOTS FOR DETAILS.

U1 U2 U11

NOTE: THE FOLLOWING TARGETS ARE NOT INCLUDED IN THIS ANALYSIS FOR THE MENTIONED REASONS:

TARGET	REASON
U6	TARGET NOT VISIBLE
U7	TARGET NOT VISIBLE

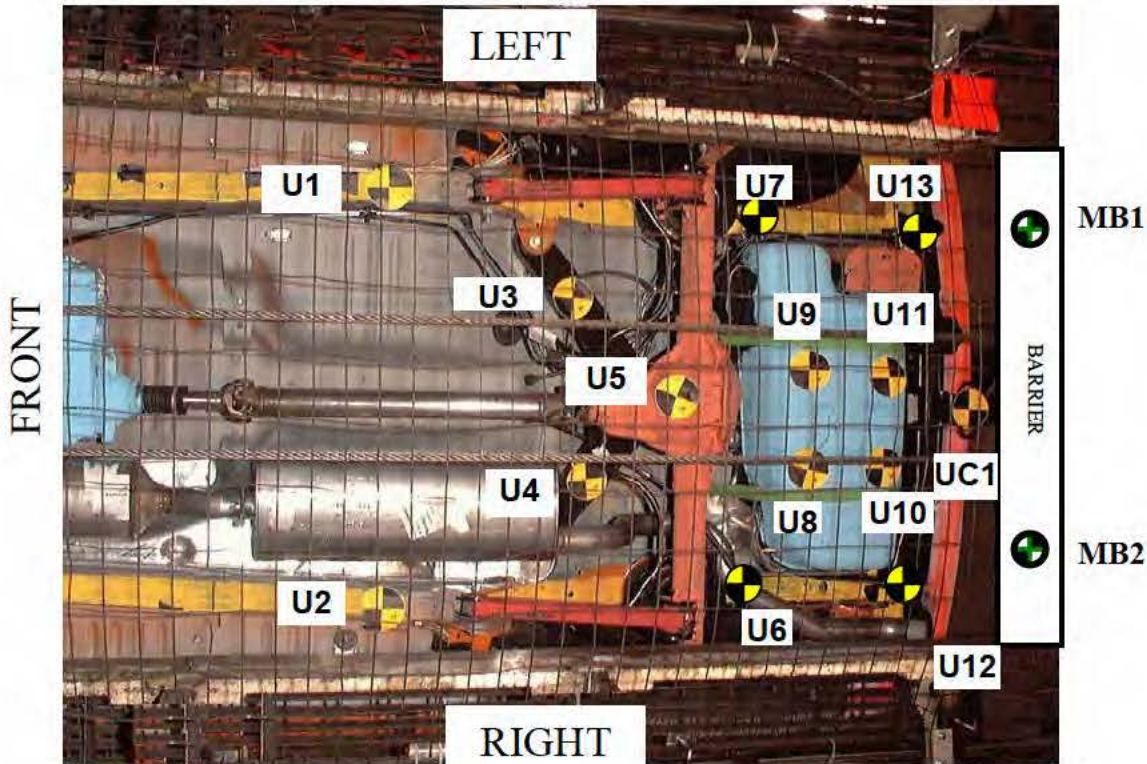
Q. C. ANALYST

E. J. BACHMANN

GRAPHS - 25

EA12-005
CHRYSLER
12-13-2012
Enclosure 6B
301 Developmental Crash
Tests Public
KJ Development Crash Test
VC11439.FAR.UBR.LEGEND

**VC11439 48.3 KPH REAR (FULL) TYPE IV ITEM 4W
05 KJ, USA 301-REAR DEVELOPMENT TEST**



TARGET NAME

TARGET DESCRIPTION

UC1	CENTER TARGET, REAR BUMPER CROSSMEMBER
U1	LEFT FOREMOST RAIL TARGET
U2	RIGHT FOREMOST RAIL TARGET
U3	LEFT UPPER SWING-ARM TARGET
U4	RIGHT UPPER SWING-ARM TARGET
U5	REAR DIFFERENTIAL TARGET
*U6	RIGHT RAIL TARGET -RWD OF AXLE
*U7	LEFT RAIL TARGET -RWD OF AXLE
U8	RIGHT FRONT CORNER FUEL TANK TARGET
U9	LEFT FRONT CORNER FUEL TANK TARGET
U10	RIGHT AFT FUEL TANK TARGET
U11	LEFT AFT FUEL TANK TARGET
U12	RIGHT AFTMOST RAIL TARGET -NEAR REAR RIGHT CORNER FUEL TANK
U13	LEFT AFTMOST RAIL TARGET - NEAR REAR LEFT CORNER FUEL TANK
MB1	LEFT MOVING BARRIER BOTTOM TARGET
MB2	RIGHT MOVING BARRIER BOTTOM TARGET

* TARGET NOT VISIBLE FOR THIS ANALYSIS

EA12-005
CHRYSLER
12-13-2012
Enclosure 6B
301 Developmental Crash
Tests Public
KJ Development Crash Test
VC11439.LET.LETTER Public

VEHICLE CRASH ENGINEERING
VEHICLE CRASH TEST LETTER

PAGE 01

VC11439 48.3 KPH REAR (FULL) TYPE IV ITEM 4W [REDACTED]
05 KJ, USA 301-REAR DEVELOPMENT TEST
TEST DATE 02/06/04
TEST SITE CPG

TEST PURPOSE PRIMARY, 2005 USA 301-REAR DEVELOPMENT

IMPACT TYPE TARGET SPEED; 48.3 KPH
DAMAGE LOCATION; REAR (FULL)
BARRIER TYPE; REAR TYPE IV
BARRIER SURFACE; PLYWOOD

VEHICLE BODY CLASS; KJ
CAR LINE; J
BODY; 74
ENGINE; 3.7 LITER
ENGINE NOTE;
TRANSMISSION; 6 SPEED MANUAL
TRANS. NOTE;
VIN AS TESTED; 1J4GL38K54W [REDACTED] MOD.
VIN AS BUILT; 1J4GL38K54W [REDACTED] MOD.

TEST SPEED 48.79 KPH BY TRAP AVERAGE

TEST WEIGHT (KG) 2231 TOTAL, 1161 FRONT, 1070 REAR

OCCUPANTS 1L - 50TH MALE BALLAST HYBRID 2, 0 - CH AD-60
RESTRAINT- 3-PT UNIBELT ONLY
1R - 50TH MALE BALLAST HYBRID 2, 0 - CH AD-59
RESTRAINT- 3-PT UNIBELT ONLY

BUILD CONDITION

TARGET WEIGHT (KG) 2231 TOTAL, 1160 FRONT, 1071 REAR
INCLUDING BALLAST AND OCCUPANTS

VEHICLE CRASH ENGINEERING
VEHICLE CRASH TEST LETTER

PAGE 02

VC11439 48.3 KPH REAR (FULL) TYPE IV ITEM 4W [REDACTED]

05 KJ, USA 301-REAR DEVELOPMENT TEST

TEST DATE 02/06/04

TEST SITE CPG

FUEL AND BALLAST 73.8 LITERS STODDARD SOLVENT
 136.1 KG BALLAST WEIGHT SECURED IN CARGO AREA
 206.4 KG ADDITIONAL BALLAST WEIGHT ADDED
 330LBS 2-BALLAST 50TH MALE 2ND ROW
 50LBS 1L FLOOR PAN
 75LBS 1R FLOOR PAN

REPORT CODES A = TRANSDUCER DATA B = ALL FILM DATA

DISTRIBUTION M. STEBELTON 422-05-01 (AB)
 S. MARSH 514-17-39 (AB)

DATE 02/06/04 TIME 09:37:50.

EA12-005
CHRYSLER
12-13-2012
Enclosure 6B
301 Developmental Crash
Tests Public
KJ Development Crash Test
VC11439.Photos-BuildDown

vc11439



EA12-005; Chrysler -005616



EA12-005- Chrysler -005617

vc11439



vc11439



EA12-005 Chrysler -005619

vc11439

VC11439

QW 52122 -04
P/N 591789 10AD-A

EA12-005- Chrysler -005620



VC11439



EA12-005- Chrysler -005621

EA12-005- Chrysler -005622

VC11439



EA12-005- Chrysler -005623

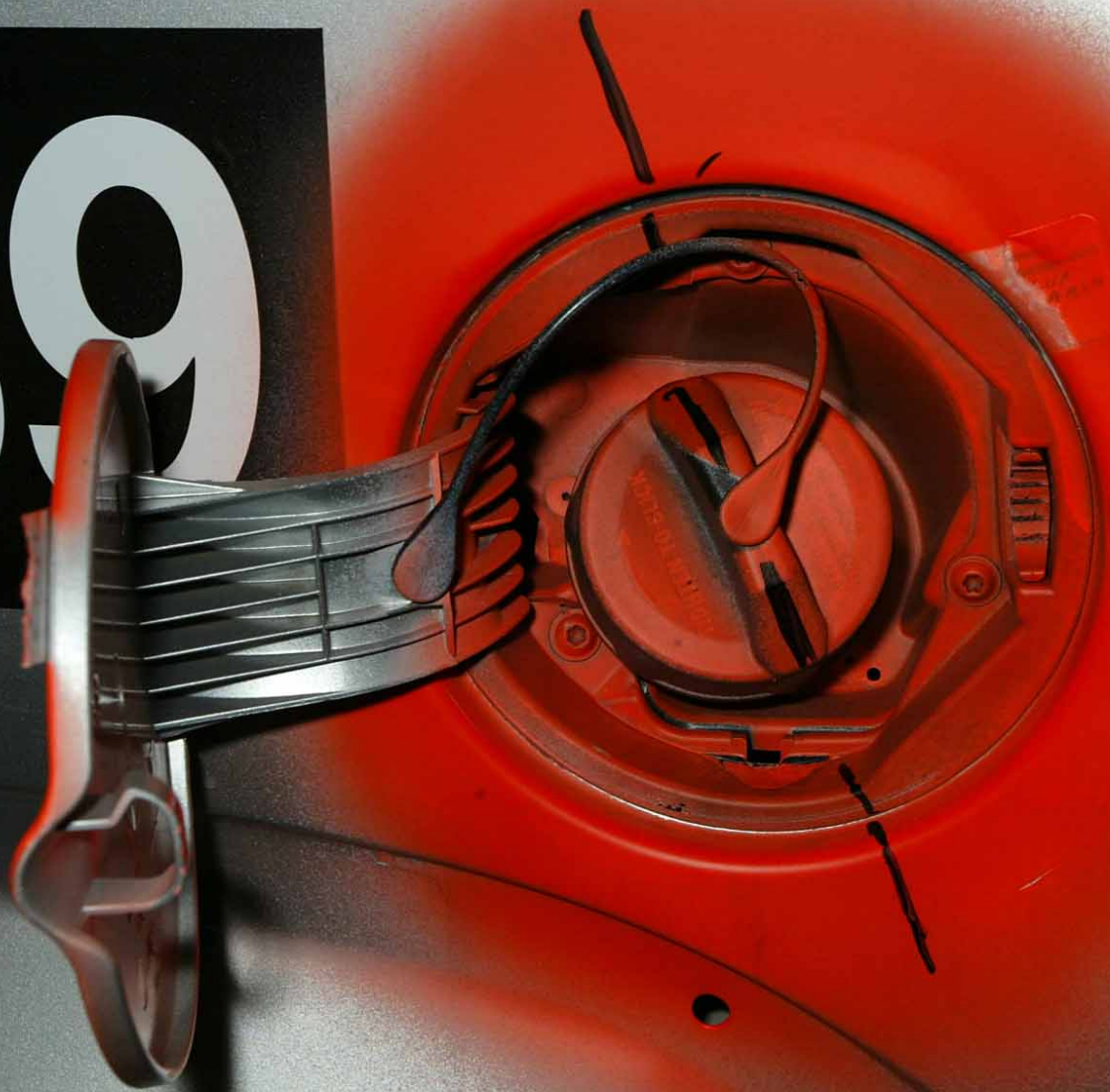
VC11439

EA12-005
CHRYSLER
12-13-2012
Enclosure 6B
301 Developmental Crash
Tests Public
KJ Development Crash Test
VC11439.Photos-PostTest

VC11439 POST

39

19



VC11439 POST



EA12-005- Chrysler -005625

VC11439 POST



EA12-005- Chrysler -005626

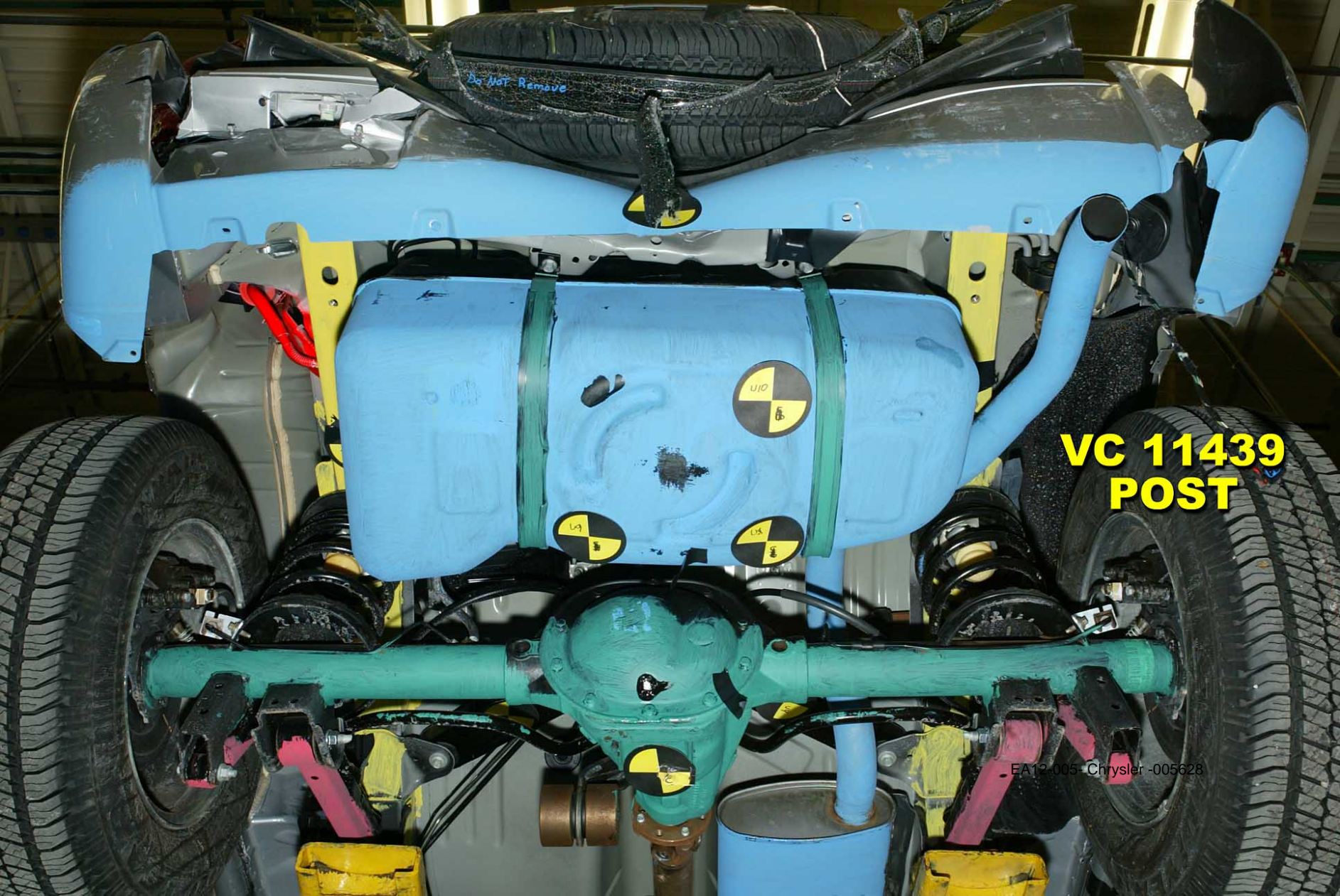
**VC 11439
POST**

GOODYEAR

SR-A

WRAN

EA1Z-006-Chrysler-0056



Do NOT Remove

**VC 11439
POST**

EA12-005 Chrysler -005628



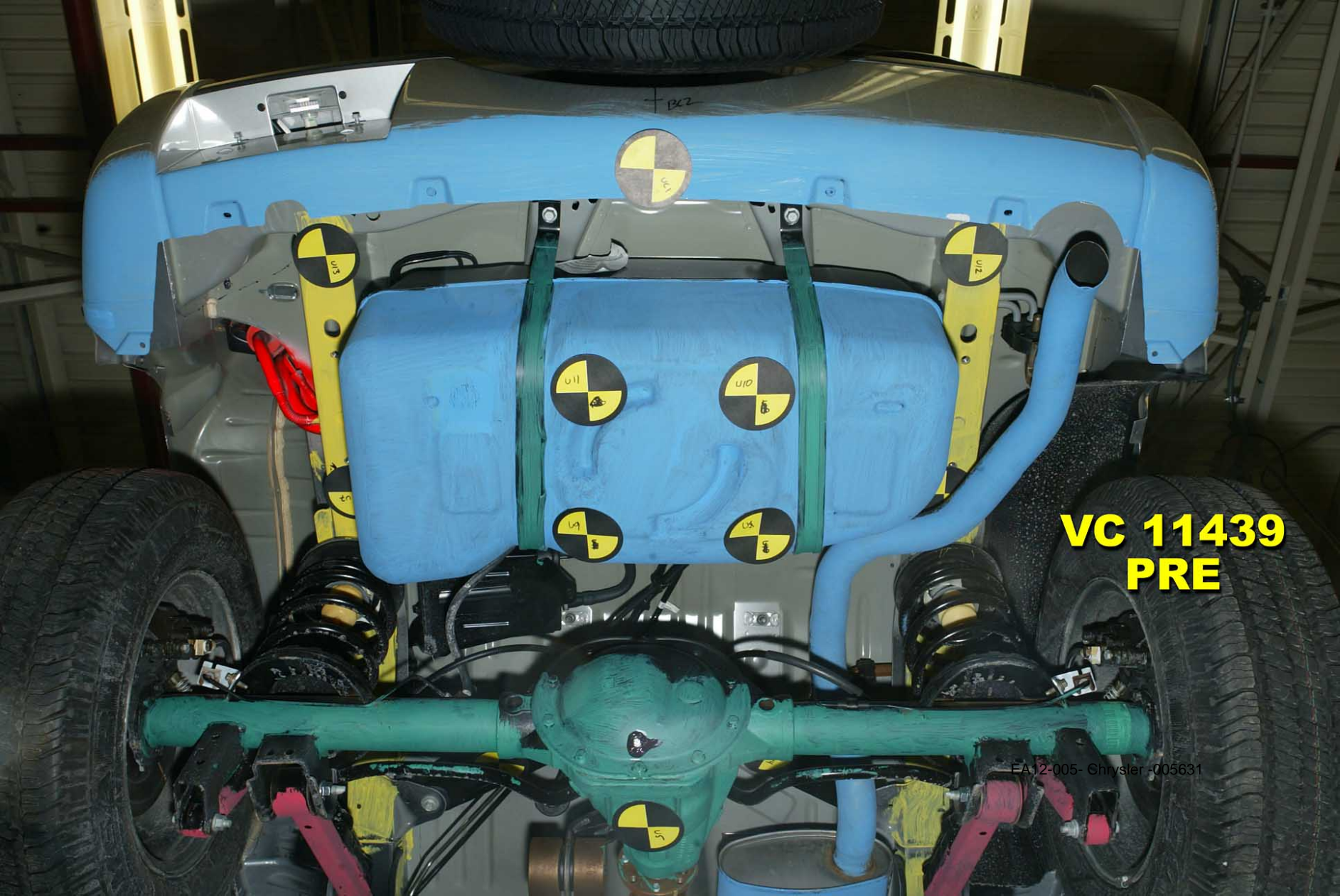
**VC 11439
POST**

EA12-005- Chrysler -005629



**VC 11439
POST**

EA12-005
CHRYSLER
12-13-2012
Enclosure 6B
301 Developmental Crash
Tests Public
KJ Development Crash Test
VC11439.Photos-PreTest



**VC 11439
PRE**

EA12-005- Chrysler -005631



EA12-005- Chrysler 0005632

VC 11439
PRE

**VC 11439
PRE**



EA12-005- Chrysler -005633



VC 11439
PRE

EA12-005-Chrysler-005634



EA12-005- Chrysler 005635

VC 11439
PRE



Do NOT Remove

Do NOT Remove

Jeep
4x4

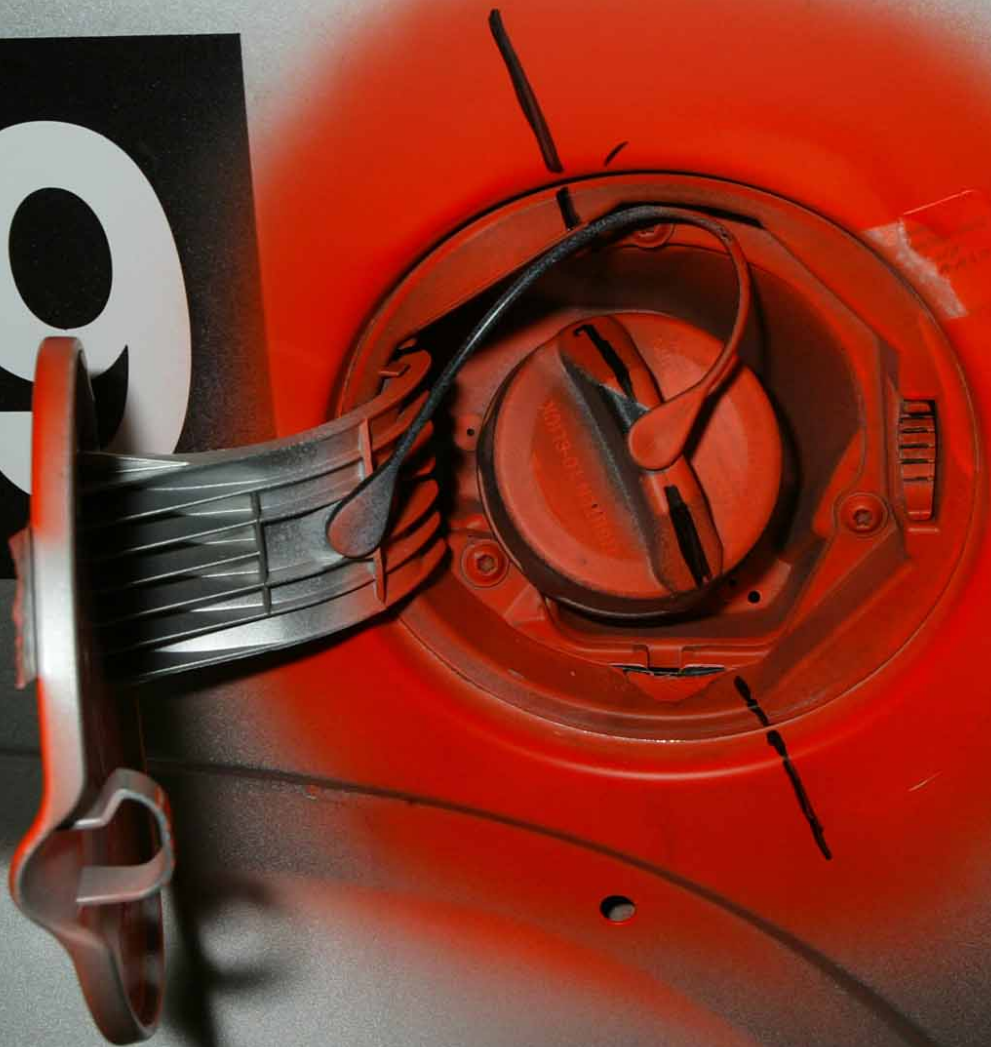
5.2L

**VC 11439
PRE**

EA12-005- Chrysler -005636

39

19.



EA12-005- Chrysler -005637

VC11439 Pre



11439

11439

19358

Jeep
4x4

EA12-005- Chrysler -005638

VC11439 Pre



EA12-005- Chrysler -005639

VC11439 Pre

EA12-005
CHRYSLER
12-13-2012
Enclosure 6B
301 Developmental Crash
Tests Public
KJ Development Crash Test
VC11439.REQ.TEST_REQUE
ST Public

Test Request for VC11439/ JPE Item No.: 4W [REDACTED]

Doc. Rev. #: 8


<p>Key People:</p> <p>*Test Requester: Suzanne M Marsh/JTE/DCC/DCX</p> <p>Platform: JPE</p> <p>Phone: 733-3084</p> <p>Others to be copied on correspondence related to this test:</p>	<p>TEST STATUS: TEST COMPLETE Test Completed on 02/06/2004</p> <p>TEST SITE: CPG</p> <p>SLOT #: 1st Test of the Day</p> <p>SCHEDULED DATE: 02/06/2004 12:00:00 AM</p> <p>LAST MODIFIED / BY: 02/06/2004 09:43:08 AM by: Tim W Lackey</p> <p><u>REQUESTOR'S NOTE PAD:</u></p>
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INVOICE INFORMATION (Service Center Purpose)	
LOCATION:	1275
DEPARTMENT:	1060
COMMIT NUMBER:	AVPT
DO NUMBER:	2005 KJ74 MAJOR

<p><u>CPG Personnel Assigned to This Test:</u></p> <p>Test Engineer(s)</p> <p>Test Engineer Assigned: Michael E Collings - 836-5516</p> <p>Test Engineer Check Completed By:</p> <p>Test Engineer Test Day:</p> <p>Film Analysis Liaison: Andre S Dsouza - 722-1916</p>	<p>Data Acquisition Engineer(s)</p> <p>Data Acquisition Test Engineer: Tim W Lackey - 836-5098</p> <p>Data Acquisition Check Completed By: Norman D Post - 836-5369</p> <p>Data Acquisition Write-Up Engineer: Norman D Post - 836-5369</p> <p>INSTRUMENTATION SECTION REVIEW COMPLETED BY: Joseph C Blaska on 01/20/2004 01:08 PM</p>
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Test Requested:

MVSS 301 30MPH Flat Rear Impact

<p>*Procedure (Select One): SLT13500</p> <p>*Target Speed: 48.3 KPH (30.0 MPH)</p> <p> mph->kph</p> <p>*Best Estimate of Ship Date: 01/20/2004 Estimated Schedule Date: 02/06/2004 Estimated Vehicle Buildup (Days): 6.5</p> <p>Specific Test Date Required?:</p> <p>*When this test is complete, please send</p>	<p>Regulatory Purpose(s): <small>(used to determine numeric processing)</small> PRIMARY, 2005 USA 301-REAR DEVELOPMENT</p>
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test property to: PROC	
*Stage of Development: <input type="radio"/> Compliance <input checked="" type="radio"/> Development	Priority (optional): <input type="radio"/> A <input checked="" type="radio"/> B <input type="radio"/> C


***** All Required fields (*) must be entered up to this point for test specification to be accurate *****

Occupants For This Test:

1L - (Standard) H2-50TH MALE BALLAST DUMMY, 0 - CH, RESTRAINT- 3-PT UNIBELT ONLY, AD-60
1R - (Standard) H2-50TH MALE BALLAST DUMMY, 0 - CH, RESTRAINT- 3-PT UNIBELT ONLY, AD-59

FILM ANALYSIS AND PHOTOGRAPHIC VIEWS:

<p>Film Analysis Ordered: DYNAMIC CRUSH REAR UNDERBODY REAR - FLAT IMPACT</p> <p>Film Analysis "If Requested": VELOCITY</p> <p>Test Site Constraints based on Film Analysis: Advanced Film Analysis Req'd: CPG site recommended</p> <p>Film Analysis Requested - Custom: No Custom</p>	 <p>Photographic Views Required:</p> <ul style="list-style-type: none"> >>LEFT LOW TARGETS >>LEFT HIGH TARGETS >>PIT NORTH MID TARGETS >>PIT SOUTH REAR TARGETS >>VELOCITY HG2000 >>LEFT OVERALL >>CATWALK VEHICLE REAR MDB INTERACTION >>RIGHT OVERALL >>PIT FUEL FILLER TUBE >>PIT FUEL TANK <hr/> <p><u>IMAGING PRODUCT ORDER:</u> VCE PROVIDES ONE ORIGINAL AND ONE PRINT 16 MM FILM REEL WITH EACH TEST.</p>
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 Still Photos Required:			
STANDARD VIEWS FOR: REAR			ADDITIONAL STILL PHOTOS: Pre-Test Still Photo: top rear Pre-Test Still Photo: bottom rear Pre-Test Still Photo: fuel filler tube Pre-Test Still Photo: filler keyway Post-Test Still Photo: top rear Post-Test Still Photo: bottom rear Post-Test Still Photo: fuel filler tube Post-Test Still Photo: filler keyway
	PRE	POST	
TOP REAR BOTTOM REAR FUEL FILL TUBE FILLER KEYWAY			

FILM ANALYSIS REPORT UPDATE:
(This Section Indicates the Status of Film Analysis Completion)

FA NAME	PUBLISHED	REISSUED	CANCELLED	COMMENTS
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Vehicle Information:

<p>Program: 05 KJ </p> <p>Core Item No.: 4W [REDACTED]</p> <p>NOTE: the Core Item No. cannot exceed 10 characters in length.</p> <p>Restrike No.: R</p> <p><input type="checkbox"/> Right-Hand Drive <input type="checkbox"/> Competitive Car</p> <p>CAR LINE: J BODY: 74 Number of Doors in this Vehicle: 4 Vehicle Build Level: V1</p> <p>Other Vehicle Configuration Flag (<i>optional</i> word or short phrase to use in further sorting of platform reports):</p> <p>VIN(as built): 1J4GL38K54W [REDACTED] VIN(as tested): 1J4GL38K54W [REDACTED]</p>	<p>Vehicle Readiness to Ship:</p> <p><i>THIS IS A MINIMALLY MODIFIED VEHICLE, NO CHECKLIST IS REQUIRED</i></p>									
<p>ENGINE: 3.7 Liters ENGINE NOTE:</p> <p>TRANSMISSION: 6 SPEED MANUAL</p> <p>TRANS. NOTE: DRIVE: 4 X 4</p> <p>GVW (opt): kg</p>	<p>Vehicle Logistics:</p> <p>Note: Vehicle must be fully inspected prior to shipment to test site.</p> <p><input type="checkbox"/> Yes</p> <table border="0"> <tr> <td></td> <td style="text-align: center;">Start Date:</td> <td style="text-align: center;">End Date:</td> </tr> <tr> <td>EMD Work Oder:</td> <td></td> <td></td> </tr> <tr> <td>Wet Fuels Work Order:</td> <td></td> <td></td> </tr> </table> <hr/> <p>Shipped to Test Site: Rec'd at Test Site: 01/26/2004 Returned from Test Site: When I expect vehicle to be off hold:</p>		Start Date:	End Date:	EMD Work Oder:			Wet Fuels Work Order:		
	Start Date:	End Date:								
EMD Work Oder:										
Wet Fuels Work Order:										



Instrumentation Build Info:

General Instrumentation Requirements:	
<p>Modules Used:</p> <p>Other Notes: FUEL PUMP RUNNING DURING TEST</p>	<p>Pyrotechnics Used:</p> <p>Deployment Method: No Deployment</p>

	Deployment Notes:
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Vehicle Channel Entry:	List of Dummy Channel Titles Used on this Test:
<div style="border: 1px solid gray; padding: 2px; width: fit-content; margin-bottom: 5px;">Create New Instrumentation Sheet</div> <p>Attach Instrumentation Sheet Here: <i>DO NOT ATTACH MORE THAN ONE FILE TO THIS FIELD.</i></p> <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid gray; padding: 2px; margin-left: 5px;">Attach New or Replacement Sheet</div> </div> <p>4w [redacted] instV2.xls</p> <ul style="list-style-type: none"> Protected section of instrumentation sheet indicates minimum instrumentation requirements for the test selected and may only be modified by your Data Acquisition Engineer. Please indicate all changes made to the spreadsheet after Test Request submission at the base of the spreadsheet. 	BALLAST DUMMY- NO CHANNELS-1L BALLAST DUMMY- NO CHANNELS-1R

Total Occupant Channels: 0 Total Vehicle Channels: 24 Estimated Vehicle Buildup Time (days): 6.5 TOTAL ON-BOARD CHANNELS FOR THIS TEST: 24	Total Data Acq. Boxes Required: 1 Channels in Last Data Acq. Box : 24 out of 32
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Build Condition as Reported in Test Letter:



Test Weight:

<p>Target Test Weight Requested Please note: This is an approximate value and includes vehicle, ballast, fuel, ATDs, and instrumentation.</p> <p style="text-align: center;">1 POUND WEIGHT = 0.4536 KILOGRAMS (KG)</p> <p>Total Target Test Weight: 2231 kg (4,918 lbs)</p>	<p>Weight Balance and Luggage: Please note: <u>This section is OPTIONAL.</u> Values entered here are approximate.</p> <p>Total Front 1,160 kg (2,557 lbs) lb->kg</p>
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lb->kg

Weight Adjustment Method:

(standard procedure to be used unless otherwise specified.
Define which parts should be removed first if the vehicle is over
the target weight after occupants and instrumentation are added)

Weight represents a 2005 3.7L Liberty Renegade + (2) 50th male
occupants + luggage = 4288.6 bs + 330lbs + 300lbs = 1945.3kg
+ 149.7kg + 136.1kg = 4918.6kg = 2231.1kg

Total Rear 1,071 kg (2,361 lbs)



Luggage: 136.1 kg



lb->kg

ACTUAL TEST WEIGHT: 2231 KG

WEIGHT BALANCE:

- TOTAL FRONT: 1161 KG

- TOTAL REAR: 1070 KG

ADDITIONAL BALLAST INSTALLED: 206.4 KG

DETAIL OF ADDITIONAL BALLAST INSTALLED: 330LBS 2-BALLAST 50TH MALE 2ND ROW; 50LBS 1L FLOOR PAN; 75LBS 1R FLOOR PAN

ACTUAL TEST SPEED: 48.79 KPH

SPEED DETERMINED BY: TRAP AVERAGE



Mechanical Requirements:

Specific Work to Be Done at Test Site:

CAUTION: - ensure [UNLOCK] button is pressed after final powering-up of vehicle electrical system
 CAUTION: - ensure doors are closed but not locked before test
 CAUTION: - ensure all five tire pressures are set to recommended setting of 33 psi
 CAUTION: - BCM CHECK to ensure rolling locks disabled-BODY-BODY-CONFIG-ROLL LKS
 CAUTION: - do not remove the access panel in cargo area
 CAUTION: - ensure the parking brake is disengaged, the transmission is in neutral, and the T-case is in neutral
 Part R&R: remove trailer hitch, fuel tank skid plate, and rear tow hooks if present
 DO NOT DISTURB: - flipper glass, swing gate, and spare tire
 TEST VEHICLE WITH 19.5 GALLONS STODDARD IN FUEL SYSTEM
 FUEL FILL TO SPEC IS MANDATORY
 PRE-TEST PRESSURE CHECK REQUIRED
 FUEL PUMP RUNNING DURING TEST
 STATIC ROLL ASSESSMENT REQUIRED (SLWI3532)
 Steering Column Setting: mid
 Seat Back Setting: 23.5
 Seat Head Restraint Setting: highest position possible
 Seat Track Setting: mid position
 Restraint Setting: mid - second from top
 ATL Setting: mid track - second notch from top
 Pre-Test Measurement: - vehicle attitude AS RECEIVED
 Pre-Test Measurement: - tire pressures AFTER BUILD-UP - adjust to 33psi if necessary
 Pre-Test Measurement: - vehicle attitude AFTER BUILD-UP - adjust as required
 Paint: floor pan around the gas tank and above the fuel filler tube in a bright color for contrast during filming

Work Orders for This Test:

PRE TEST:

POST TEST:

Extra Attachments, Rich Text or Additional Info here if required:

Document Information

Date Created: 01/12/2004 02:46 PM

Created By: Suzanne M Marsh/JTE/DCC/DCX

Last Edited: 02/06/2004 09:43:08 AM

Edited By: Tim W Lackey/SCI/DCC/DCX

Edit History:

Edit History:			
1/27/2004 1:13:24 PM	Glenn A Buss	EditApprovalStatus [] --> [**** TEST REQUEST INITIALLY APPROVED ****] MODIF ED /Rev#:1	
1/27/2004 1:13:24 PM	Glenn A Buss	SchedTest [] --> [02/06/2004 12:00:00 AM] MODIFIED /Rev#:1	
1/27/2004 1:13:24 PM	Glenn A Buss	Slot [] --> [tbd] MODIF ED /Rev#:1	
1/27/2004 1:13:24 PM	Glenn A Buss	TestNo [] --> [VC11439] MODIFIED /Rev#:1	
1/28/2004 12:49:43 PM	Christine M Durst	SchedTest[2/6/2004] --> [2/5/2004] MODIF ED / Rev# 2	
1/28/2004 3:42:52 PM	Suzanne M Marsh	AttachmentList [4w ██████ nstV1.xls:199680] --> [4w ██████ nstV2.xls:199680] MODIF ED /Rev#:3	
01/28/2004 03:43:01 PM	Suzanne M Marsh:	Additional Comments: added triax accel to top of fuel tank module to protect for fuel issues /Rev#:3	
1/29/2004 1:10:35 PM	Glenn A Buss	SchedTest[2/5/2004] --> [2/6/2004] MODIF ED / Rev# 4	
02/03/2004 07:53:12 AM	Norman D Post:	Additional Comments: added triax accel to top of fuel tank module to protect for fuel issues	
2/5/2004 7:50:31 AM	Michael E Collings	[UPDATES TO THE PHOTOGRAPHIC VIEW SECTION] /Rev#:	
2/5/2004 7:51:15 AM	Michael E Collings	[UPDATES TO THE PHOTOGRAPHIC VIEW SECTION] /Rev#:	
2/5/2004 7:51:51 AM	Michael E Collings	FAOrder [DYNAMIC CRUSH REAR] REMOVED /Rev#:5	
2/5/2004 7:51:51 AM	Michael E Collings	FAOrder [FORCE CRUSH ENERGY (REAR IMPACT)] ADDED /Rev# 5	
2/5/2004 7:51:51 AM	Michael E Collings	MECHlistall [Pre-Test Measurement: Install and dimension 2D tube] REMOVED /Rev#:5	
2/5/2004 7:51:51 AM	Michael E Collings	MECHlistall [Part R&R: Vehicle must be targeted for DCR Analysis] ADDED /Rev#:5	
2/5/2004 8:19:20 AM	Pawel Podgorski	[UPDATES TO THE PHOTOGRAPHIC VIEW SECTION] /Rev#:	
2/5/2004 9:57:19 AM	Robert D Burton	[UPDATES TO THE PHOTOGRAPHIC VIEW SECTION] /Rev#:	

Last Edit:			
02/06/2004 09:32:48 AM	Jeffery H Patton	FINAL TEST LETTER REVISED	
02/06/2004 09:32:48 AM	Jeffery H Patton	Resubmit Comments	
02/06/2004 09:31:36 AM	Jeffery H Patton	FINAL TEST LETTER SUBMITTED	
2/5/2004 9:59:45 AM	Robert D Burton	FAOrder [FORCE CRUSH ENERGY (REAR IMPACT)] REMOVED /Rev#:7	
2/5/2004 9:59:45 AM	Robert D Burton	FAOrder [DYNAMIC CRUSH REAR] ADDED /Rev#:7	
2/5/2004 9:59:45 AM	Robert D Burton	FAPVListDupViews [LEFT WALKWAY TARGETS OVERALL] REMOVED /Rev#:7	
2/5/2004 9:59:45 AM	Robert D Burton	FAPVListDupViews [LEFT LOW TARGETS] ADDED /Rev#:7	
2/5/2004 9:59:45 AM	Robert D Burton	FAPVListDupViews [LEFT HIGH TARGETS] ADDED /Rev#:7	
2/5/2004 9:59:45 AM	Robert D Burton	MECHlistall [Part R&R: Vehicle must be targeted for DCR Analysis.] REMOVED /Rev#:7	
2/5/2004 2:36:19 PM	Christine M Durst	Slot[tbd] --> [1st] MODIFIED / Rev# 8	

[Click here to view previous edits](#)

Old Change Method Info

History of Changes to This Record After Test Request Approval:

Date/Time	Edited By	Description
	Suzanne M Marsh/JTE/DCC/DCX	TEST REQUEST INITIALLY APPROVED

EA12-005
CHRYSLER
12-13-2012
Enclosure 6B
301 Developmental Crash
Tests Public
KJ Development Crash Test
VC11439.TVA.TVALUE
Public

DATE 02/06/04
TIME 10:50:21.

ELECTRONIC DATA PROCESSING
EDP TEST LETTER

VEHICLE CRASH ENGINEERING
DEPT 5320

VC11439 ITEM 4W [REDACTED]
VC11439 48.3 KPH REAR (FULL) TYPE IV ITEM 4W [REDACTED]
05 KJ, USA 301-REAR DEVELOPMENT TEST
TEST DATE 02/06/04
TEST SITE CPG

TEST PURPOSE PRIMARY, 2005 USA 301-REAR DEVELOPMENT

IMPACT TYPE TARGET SPEED; 48.3 KPH
DAMAGE LOCATION; REAR (FULL)
BARRIER TYPE; REAR TYPE IV
BARRIER SURFACE; PLYWOOD

VEHICLE BODY CLASS; KJ
CAR LINE; J
BODY; 74
ENGINE; 3.7 LITER
ENGINE NOTE;
TRANSMISSION; 6 SPEED MANUAL
TRANS. NOTE;
VIN AS TESTED; 1J4GL38K54W [REDACTED] MOD.
VIN AS BUILT; 1J4GL38K54W [REDACTED] MOD.

TEST SPEED 48.79 KPH BY TRAP AVERAGE

TEST WEIGHT (KG) 2231 TOTAL, 1161 FRONT, 1070 REAR

OCCUPANTS 1L - 50TH MALE BALLAST HYBRID 2, 0 - CH AD-60
RESTRAINT- 3-PT UNIBELT ONLY
1R - 50TH MALE BALLAST HYBRID 2, 0 - CH AD-59
RESTRAINT- 3-PT UNIBELT ONLY

BUILD CONDITION

TARGET WEIGHT (KG) 2231 TOTAL, 1160 FRONT, 1071 REAR
INCLUDING BALLAST AND OCCUPANTS

FUEL AND BALLAST 73.8 LITERS STODDARD SOLVENT
136.1 KG BALLAST WEIGHT SECURED IN CARGO AREA
206.4 KG ADDITIONAL BALLAST WEIGHT ADDED
330LBS 2-BALLAST 50TH MALE 2ND ROW
50LBS 1L FLOOR PAN
75LBS 1R FLOOR PAN

DATE 02/06/04
TIME 10:50:21.

ELECTRONIC DATA PROCESSING
EDP TEST LETTER

VEHICLE CRASH ENGINEERING
DEPT 5320

VC11439 ITEM 4W [REDACTED]
VC11439 48.3 KPH REAR (FULL) TYPE IV ITEM 4W [REDACTED]
05 KJ, USA 301-REAR DEVELOPMENT TEST
TEST DATE 02/06/04
TEST SITE CPG
EDP TECHNICIAN S. MARCHENIA

No. of Pages 47
CC

S. MARSH 514-17-39
M. STEBELTON 422-05-01

DATE 02/06/04
TIME 10:50:56.

TEST VALUES
EDP CHANNEL SUMMARY

SAFETY TEST
DEPT 5320

VC11439 48.3 KPH REAR (FULL) TYPE IV ITEM 4W [REDACTED]
05 KJ, USA 301-REAR DEVELOPMENT TEST

TEST DATE 02/06/04 SPEED 48.8 TEST WT 2231

LIBRARY VC11439

Errata # 1 Data Set 02/06/04BA CHL001-016 30.3 REAR VC11439E

Errata # 1 Data Set 02/06/04BB CHL017-032 30.3 REAR VC11439E

The data is displayed in the Metric system of Units (G, CM, N, N-M, KPH, etc.)

CHL	TRANSDUCER LOCATION			1000	DCX	180	PH	AT	KPH
				CFC	600	CFC	60		
				PEAK	PEAK	PEAK	PEAK	300MS	
1	LEFT FRONT SILL	X	P18177	-43.5	-43.3	-37.5	-30.7	-35.1	KPH
2	LEFT FRONT SILL	Y	P27119	-51.0	47.3	-20.3	10.0	-0.3	KPH
3	LEFT FRONT SILL	Z	P16775	73.5	-56.1	19.5	-6.7	0.6	KPH
4	RIGHT FRONT SILL	X	P26922	-52.2	-49.5	-44.4	-32.8	-26.1	KPH
5	RIGHT FRONT SILL	Y	P26845	-51.7	-47.9	-21.9	-9.4	0.1	KPH
6	RIGHT FRONT SILL	Z	P26839	68.0	51.9	18.6	-7.8	1.1	KPH
7	LEFT REAR SILL	X	ETBB754	-42.5	-39.4	-33.3	-26.7	-24.7	KPH
8	LEFT REAR SILL	Y	ETBB319	-50.4	-40.9	16.6	8.4	-0.4	KPH
9	LEFT REAR SILL	Z	ETBB717	89.4	63.8	16.8	12.0	1.4	KPH
10	RIGHT REAR SILL	X	P23321	-48.3	-44.1	-39.0	-29.4	-25.3	KPH
11	RIGHT REAR SILL	Y	P16172	-69.1	-63.1	-26.2	-7.8	0.7	KPH
12	RIGHT REAR SILL	Z	P18599	-116.3	79.5	23.0	12.8	1.7	KPH
13	LEFT RAIL MID TANK	X	P24019	-88.1	-61.5	-56.1	-42.8	-24.6	KPH
14	LEFT RAIL MID TANK	Y	P19939	140.1	-87.3	32.5	11.6	-1.4	KPH
15	LEFT RAIL MID TANK	Z	P17252	-173.3	-98.6	48.6	35.8	1.5	KPH
16	RIGHT RAIL MID TANK	X	P14389	-79.9	-70.3	-63.5	-46.8	-26.0	KPH
17	RIGHT RAIL MID TANK	Y	P27155	143.6	81.0	-47.7	-29.5	-3.8	KPH
18	RIGHT RAIL MID TANK	Z	P14235	106.4	92.5	60.1	38.1	0.5	KPH
19	ENGINE BOTTOM	X	P19672	-41.8	-39.1	-33.6	-31.4	-26.1	KPH
20	ENGINE BOTTOM	Y	P14929	40.4	27.0	-10.5	-8.8	-2.5	KPH
21	ENGINE BOTTOM	Z	P12725	-20.5	-10.9	6.2	6.1	-1.1	KPH
22	FUEL TANK BOTTOM ACC	X	P17924	-238.6	-201.1	-145.1	-82.4	-77.1	KPH
23	FUEL TANK BOTTOM ACC	Y	P17449	-177.5	-125.2	-83.3	-75.9	-84.1	KPH
24	FUEL TANK BOTTOM ACC	Z	P13783	-240.6	-210.6	-150.3	-95.6	-21.7	KPH
25	FUEL TANK TOP ACCEL	X	P23569	-207.9	-171.7	-103.4	-66.4	-24.7	KPH
26	FUEL TANK TOP ACCEL	Y	P16982	-178.6	-94.6	-59.5	23.5	-5.5	KPH
27	FUEL TANK TOP ACCEL	Z	P22763	396.7	303.0	161.3	75.6	-9.1	KPH
33	M-FLAT LT RAIL MID	X	ETBB765		52.7		22.2	28.1	KPH
34	M-FLAT RT RAIL MID	X	ETBB316		50.6		25.3	27.5	KPH

DATE 02/06/04
TIME 10:50:56.

TEST VALUES
EDP CHANNEL SUMMARY

SAFETY TEST
DEPT 5320

VC11439 48.3 KPH REAR (FULL) TYPE IV ITEM 4W [REDACTED]
05 KJ, USA 301-REAR DEVELOPMENT TEST

TEST DATE 02/06/04 SPEED 48.8 TEST WT 2231

LIBRARY VC11439

The data is displayed in the Metric system of Units (G, CM, N, N-M, KPH, etc.)

Multi-Channel Plot data

CHLS 1 4 7 1 & 0 CL PH60 AVERAGE OF FRT SILL -225.6G AT .8 MS

CHLS & 1 4 CL PH60 AVERAGE OF FRT SILL -325.6G AT .6 MS