

DOT 532¹⁷

RESEARCH RABBIT (MIV) Modified Integrated Vehicle

Phase 1



VOLKSWAGENWERK
Aktiengesellschaft
WOLFSBURG

Contract No. DTNH 22-81-C-17085

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Final Report

Volume III/8 Side Impact

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U. S. DEPARTMENT OF TRANSPORTATION
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The Test Results belong to the specified NHTSA Test Configuration for Side Impacts with the Crabbed Barrier and HSRI-SID-Dummies both of which are currently under development.

NHTSA Project DTNH 22-81-C-17085

Volume III/ 8

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1. Introduction

The Objective of the MIV project was to optimize the contradictory design aspects of a high degree of passive safety and low fuel consumption.

The project was arranged in Phase I and II. The results of Phase I are the basis of this report. Phase II was redefined by NHTSA. According to this, the three engine/transmission concepts that were to be newly developed are no longer part of Phase II.

Possibilities were to be found for a 4 door Rabbit for further increasing occupant protection in specified side and frontal impacts. The Rabbit Modifications should be possible to implement on the production line. NHTSA's design goals were the 35 mph frontal fixed barrier impact and the 30, 35 or 40 mph side impact with the new 1.565 kg (3,450 lbs) deformable Crabbed Barrier and the new HSRI Dummy which were specially conceived for the side impact and are presently still under development.

Modifications for the 4 door Rabbit were derived from Crabbed Barrier/Production Rabbit baseline tests.

NHTSA contract specifications called for a maximum weight increase of 20 lbs for the modified 4 door Rabbit.

The NHTSA goal to achieve the greatest possible reduction in dummy loads, in keeping with the objective of lowest possible weight together with the prerequisite that the design be suited to mass production at the lowest possible cost, required the development of a new "Integrated Structure" for the 4 Door Modified Rabbit. This concept requires that the greatest number of components be effective during a frontal and a side impact. The "Integrated Structure" approach, rather than the Budd strategy to use add-on parts, is necessary to achieve the goals established by NHTSA.

2. Method

- 2.1 Test Devices and Test Configuration
- 2.2 List of Accelerometer Location
 - 2.2.1 Target Vehicle Instrumentation
 - 2.2.2 Side Impactor Instrumentation
 - 2.2.3 Dummy Instrumentation
- 2.3 Camera Location and Frame Rate

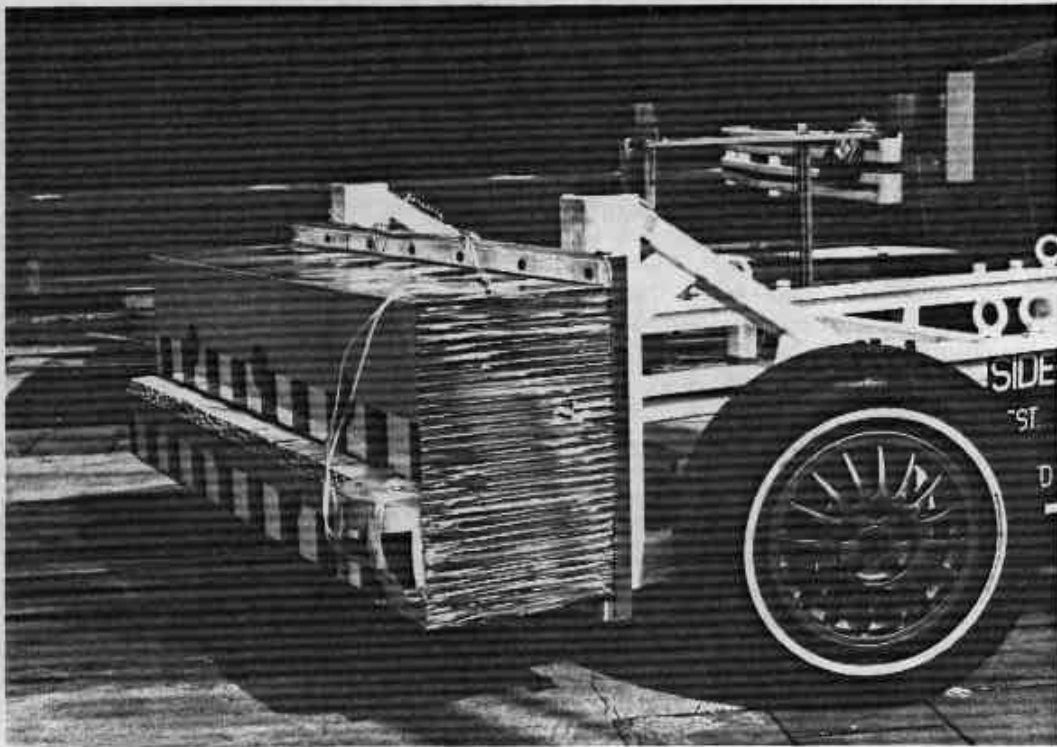
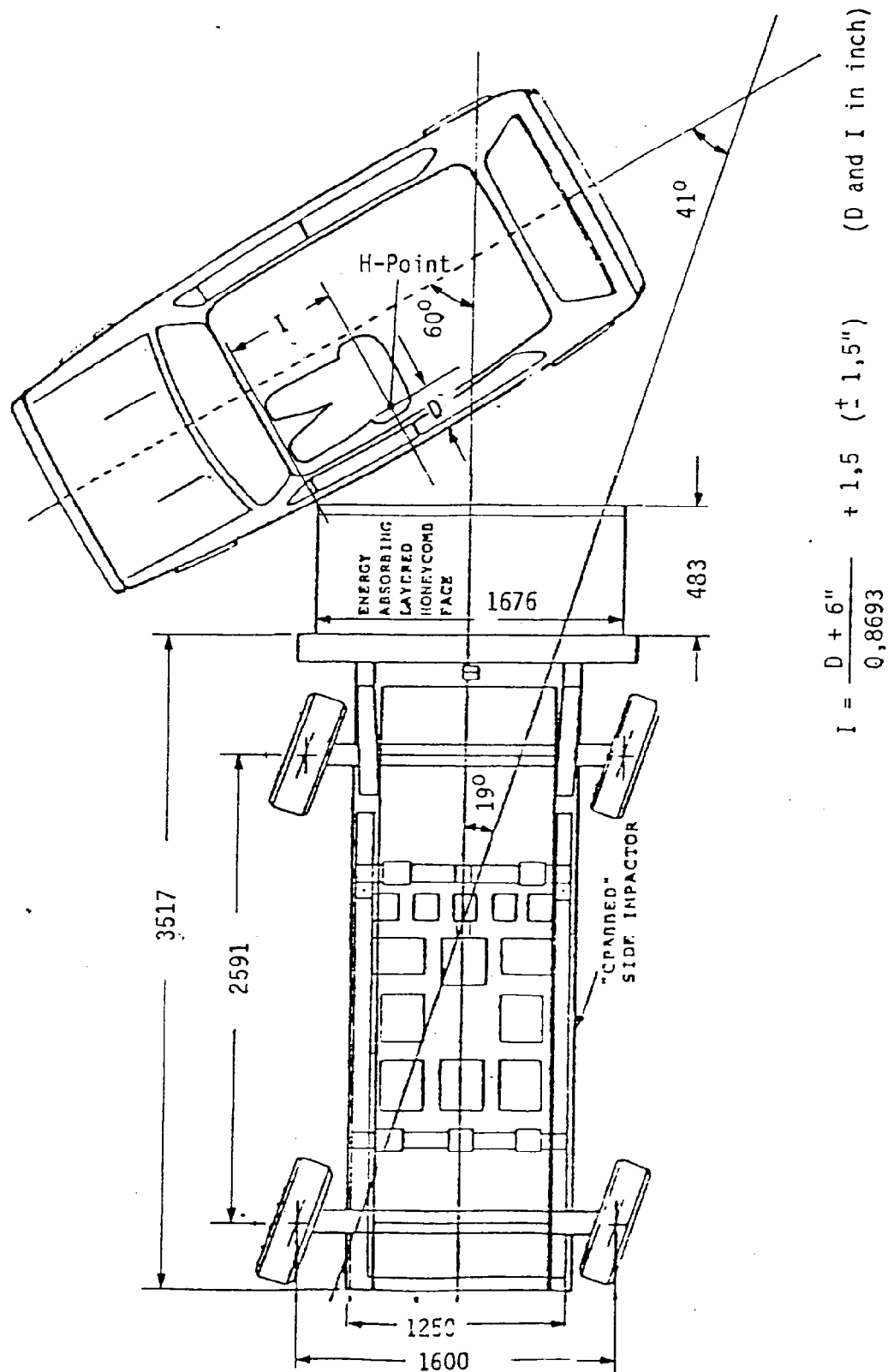


FIGURE 1 : 19° CRABBED BARRIER TEST DEVICE



FIGURE 2 : HSRI SIDE IMPACT DUMMY



Remarks: I = Impact-Point

D = Distance H-Point - Door Exterior

Figure 3: Test Configuration

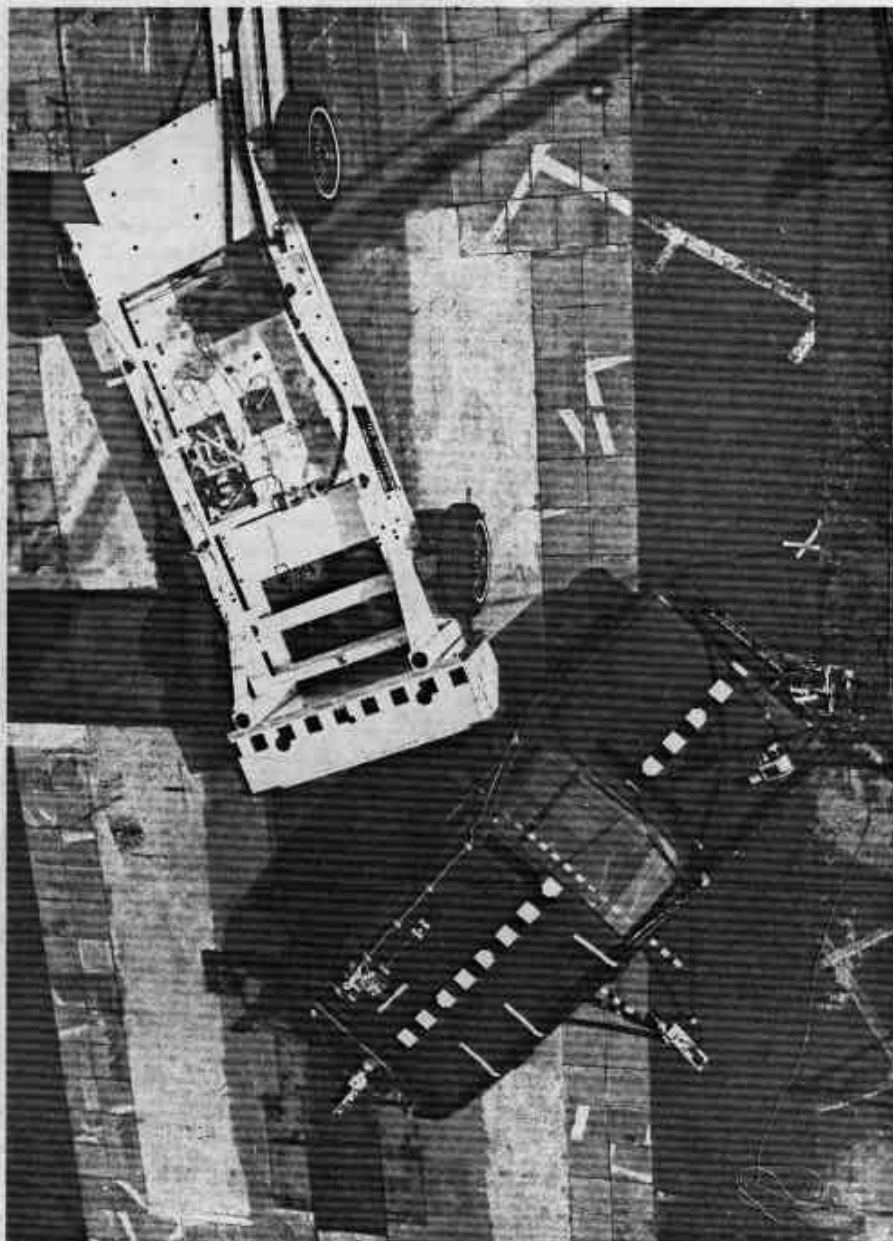


FIGURE 4 : SIDE IMPACT TEST CONFIGURATION
CRABBED BARRIER / VW RABBIT

Table 1: List of Accelerometer - Location

VEHICLE

No.	Location	Shortened Form	Direction
1	Right Front-Doorsill	TSVR	Y
2	Left Front-Doorsill	TSVL	Y
3	Left Rear-Doorsill	SHHL	Y
4	Rear Deck over Centerline	KOBO	X, Y, Z
5	Front Firewall over C _L	SWMI	X, Y, Z
6	Mid-front Edge of left Front-Door	TTRV	Y
7	Middle of left Front-Door	TTRM	Y
8	Shoulder Contact at Front-Door	SASL	Y
9	Pelvis Contact at Front-Door	BASL	Y
10	Left Front-Door on Windowsill	FBVL	Y
11	Right Front-Door on Windowsill, directly across No. 10	FBVR	Y
12	Left B-Pillar near Door Latch	BSLL	Y
13	Right B-Pillar across No. 12	BSLR	Y
14	Underneath left Front Seat attached to Seat	SGFA	Y
15	Vehicle Center of Gravity	RTMI	X, Y, Z
16	Left Front-Door Intrusion	FTWE	Y
17	B-Pillar Intrusion	THWE	Y
18	Shoulder Contact Driver	SK01K	
19	Pelvis Contact Driver	BK01K	
20	Shoulder Contact Left Rear Passenger	SK03K	
21	Pelvis Contact Left Rear Passenger	BK03K	

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1	Right Frame Rail	LTRR	X
2	Left Frame Rail	LTRL	X
3	Front Crossmember at C _L	QTM	X
4	Right Rear Vertikal Frameraill	RHTR	X, Y
5	Center of Gravity	SPKT	X, Y, Z

Declaration: X = Longitudinal

Y = Lateral

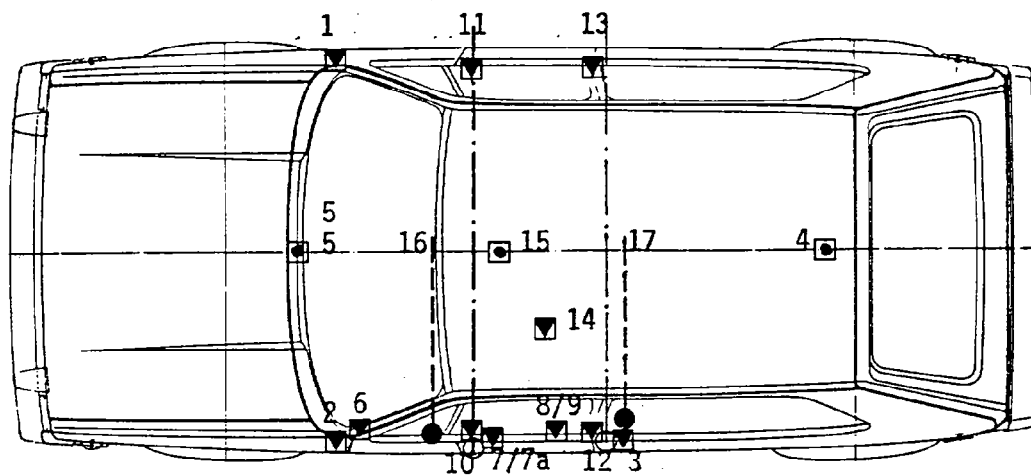
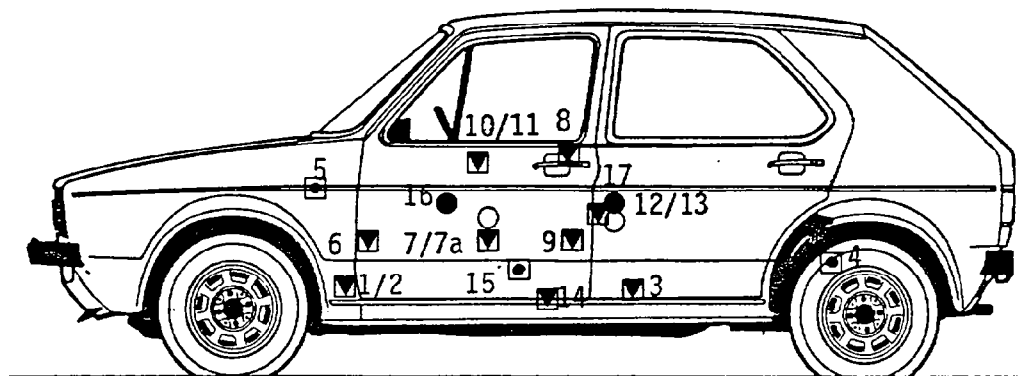
Z = Vertikal

Location of Accelerometer for the HSRI Side Impact Dummies

Location	Shortened Form	Direction
<u>D R I V E R</u>		
Head Triaxial	K001	X, Y, Z
Upper Sternum	B001	X
Lower Sternum	BU01	X
Left upper Rib	L001	Y
Left lower Rib	LU01	Y
Right upper Rib	R001	Y
Right lower Rib	RU01	Y
Upper Thorax (T 1)	T001	X, Y, Z
Lower Thorax (T 12)	TU01	X, Y, Z
Pelvis Triaxial	BE01	X, Y, Z
Chest Deflection	WE01	Y
Shoulder Beltforce	GU01SA	

R E A R L E F T P A S S E N G E R

Head Triaxial	K003	X, Y, Z
Upper Sternum	B003	X
Lower Sternum	BU03	X
Left upper Rib	L003	Y
Left lower Rib	LU03	Y
Right upper Rib	R003	Y
Right lower Rib	RU03	Y
Upper Thorax (T 1)	T003	X, Y, Z
Lower Thorax (T 12)	TU03	X, Y, Z
Pelvis Triaxial	BE03	X, Y, Z
Chest Deflection	WE03	Y
Pelvis Beltforce	GU03BA	



-  Axial Accelerometer (Y - Direction)
-  Biaxial Accelerometer (X, Y - Direction)
-  Triaxial Accelerometer (X, Y, Z -Direction)
-  Displacement Tube
-  Displacement Transducer

Note: See Table for Additional Information

Figure 5 : Target Vehicle Instrumentation

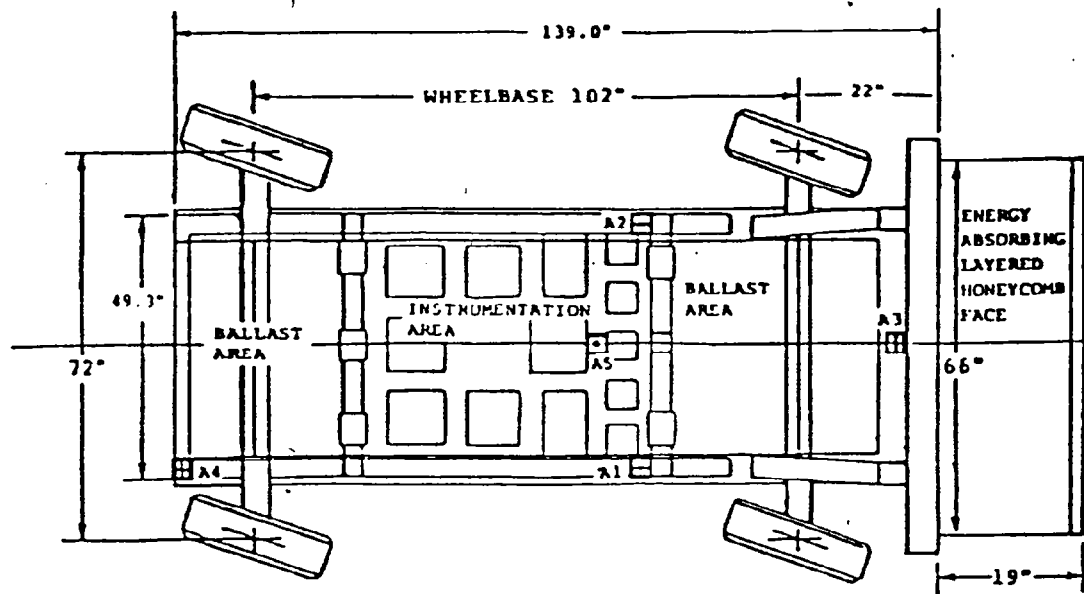
Accelerometer -		Coordinates [mm]			Results [g _{max}]		
No.	Location	X *	Y *	Z *	X	Y	Z
1	Occupant Compartment, right Front-Doorsill	2630	620	300		10.0	
2	Occupant Compartment, left Front-Doorsill	2630	-620	300		63.8	
3	Occupant Compartment, left Rear-Doorsill	1410	-560	290		43.4	
4	Rear Deck over Vehicle Centerline	910	0	440	13.3	18.0	16.0
5	Front Firewall over Vehicle Centerline	2890	0	650	6.3	8.8	11.9
6	Mid-front Edge of Left Front Door	2550	-620	457		78.8	
7	Middle of left Front Door	2060	-620	630		93.3	
8	Shoulder Contact Front Door	1775	-665	850		107.7	
9	Pelvis Contact Front Door	1840	-660	480		124.7	
10	Left Front Door on Windowsill, slightly forward of surrogate's	2050	-650	850		88.5	
11	Right Front Door on Windowsill, directly across from Nr. 10	2050	650	850		33.5	
12	Left B-Pillar near Door Lock	1480	-650	670		78.3	
13	Right B-Pillar across from Nr. 12	1480	650	670		57.6	
14	Underneath left Front Seat attached to Seat	1960	325	285		74.6	
15	Vehicle Center of Gravity					defect	
16	Displacement Transducer Front Door	2235	-	670		0.1 m	
17	Displacement Transducer B-Pillar	1415	-	850		0.31m	
7a	Middle of Left Front-Door-Beam	2060	-700	457		168.3	

* Reference Points: X - Rear Bumper
Y - Vehicle Centerline
Z - Ground Level

Table 2 : Summary of Target Vehicle Instrumentation

TEST NO : 8

- 19 -



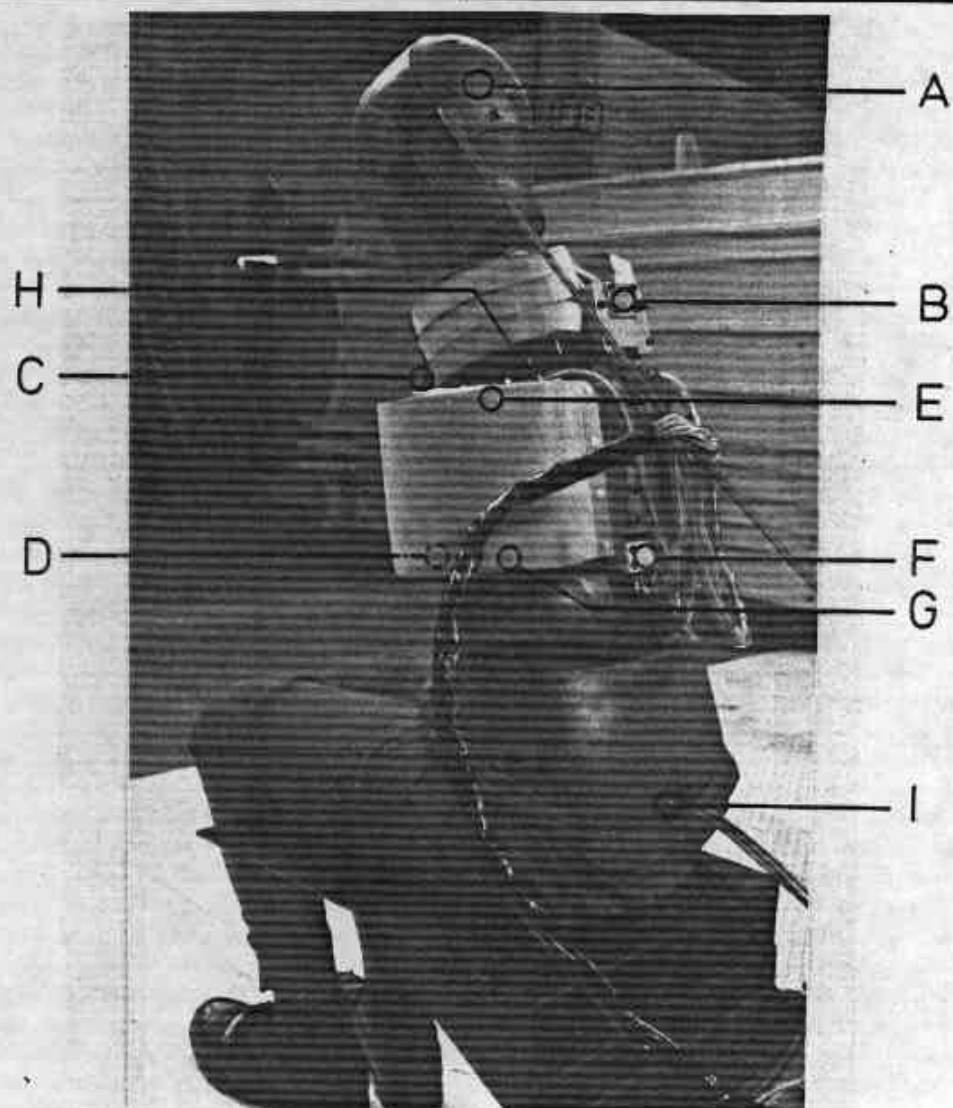
-  Axial Accelerometer, Longitudinal
-  Bi-axial Accelerometer, Long., Lat.
-  Tri-axial Accelerometer, Long., Lat., Vert.

No.	Accelerometer - Location	Coordinates [mm]			Results [G]		
		X	Y	Z	Long	Lat	Vert
A 1	Right Frame Rail	2134	584	508	14.0		
A 2	Left Frame Rail	2134	-584	508	20.1		
A 3	Front Crossmember at Centerline	3300	0	610	16.1		
A 4	Right rear vertical Frame Rail	228	560	407	11.1	20.6	
A 5	Side Impactor Center of Gravity	1727	0	305	19.5	6.6	5.9

Reference Plane: X - Rear of Side Impactor
Y - Side Impactor Centerline
Z - Ground

TEST NO : 8

FIGURE 6 : SIDE IMPACTOR INSTRUMENTATION



- | | |
|---|---|
| A. Head Triaxial | F. Lower Thorax (T 12), Triaxial |
| B. Upper Thorax (T 1), Triaxial | G. Left Lower Rib, Lateral
(also on right) |
| C. Upper Sternum, Longitudinal | H. Displacement Transducer |
| D. Lower Sternum, Longitudinal | I. Pelvis, Triaxial |
| E. Left Upper Rib, Lateral
(also on right) | |

Figure 7 : Location of 18 Accelerometer for Side Impact Dummy

Test No: 8 Test Date: 04.22.1982

Test Type: 60° Side Impact Simulation

Vehicle A : Side Impactor

Vehicle B: VW-Rabbit

Comments: Side Impactor "Crabbed" 19°

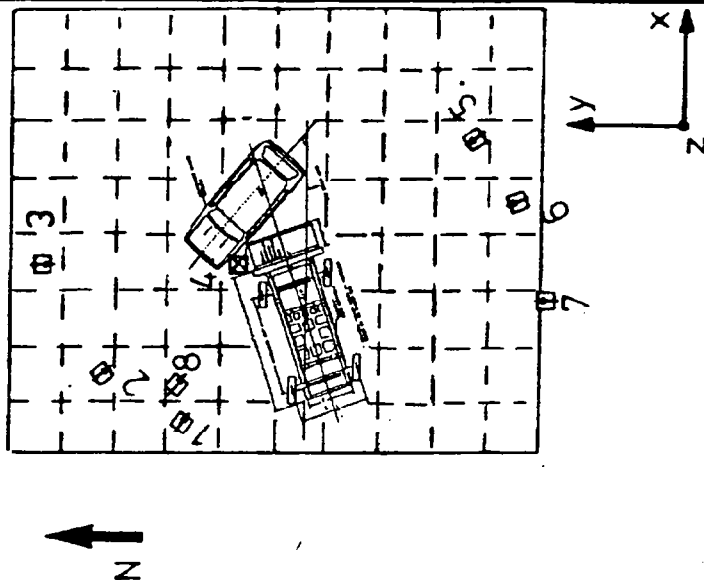
Camera	Yes
Still	
Movie	
Slides	
Polaroid	

Camera Symbols

- ☐ Pit
☐ Ground
☐ Barrier

Timing Light, Speed

- ☒ Overhead
☐ On-Board
1. 100 Hz (10 msec/light)
 2. Other



Loc. No.	Location	Field of View	Lens Size	Frm Rate	Trng Spd	Real Fr.R.	Impact Dist-X	C. L. Dist-Y	Cam Dist-Z
1	North Side -Parallel To Bullet	Overall of Both Vehicles (Locam)	16	3	10	340	-7.0	4.0	1.3
2	North Side -Parallel to Target	Close-up of Both Vehicles at Impact (Locam)	10	3	10	380	-3.0	4.5	2.2
3	North Side-Perpendicular to Bullet	Overall of Both Vehicles (Locam)	26	3	10	380	8.0	4.0	1.3
4	Overhead	Elevated - Looking Down at Impact Point (Locam)	10	3	10	350	-0.8	2.0	7.0
5	South Side -Parallel to Target	Close-up of Both Vehicles at Impact (Locam)	16	3	10	defect	10.0	-12.0	1.3
6	South Side- Perpendicular to Target	Overall of Both Vehicles (Arri)	16	2	-	25	5.0	-12.0	1.0
7	South Side	Overall of Both Vehicles (Locam)	16	3	10	390	2.0	-12.0	1.3
8	North Side	Overall of Both Vehicles (Mitchel)	50	2	-	45	-4.5	4.0	1.4

Figure 8 :Camera Location - Ground based

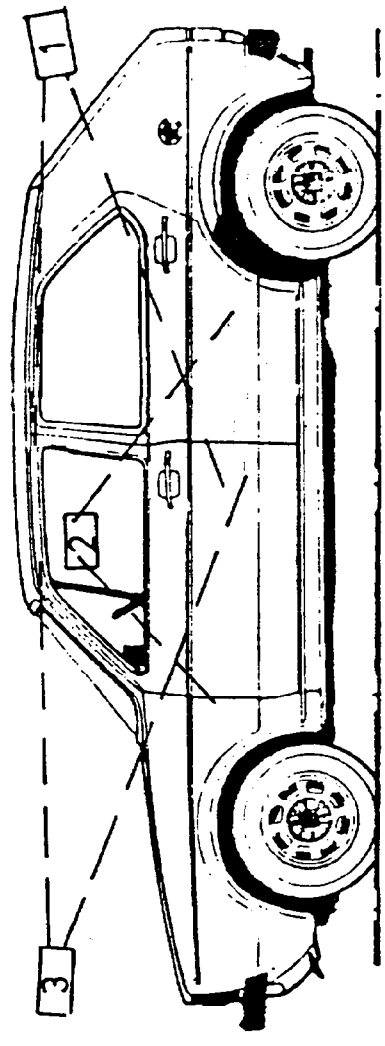
Test No.: 8 Test Date: 04.22.1982

Test Type: 600 Side Impact Simulation

Vehicle A: Side Impactor

Vehicle B: VM-Rabbit

Comments: Side Impactor "Crabbed" 190



Camera Symbols Frame Rate

☐ on-Board 1. 1000 fr/sec

☐ Ground 2. 400 fr/sec

☐ Overhead 3. Other _____ fr/sec

Timing Light, Speed

1. 100 Hz (10msec/light)

2. Other _____

Loc. No.	Location	Field of View	Lens Size	Frm Rate	Trng Spd	Real Fr.R	Impact Dist-X	C. L. Dist-Y	CAM Dist-Z [m]
1	Vehicle Rear Hatch-back Door	Front and Rear Occupant Compartment (Photosonics)	8	1	1	950			
2	Vehicle Right Front Door	Front Occupant Compartment (Photosonics)	8	1	1	820			
3	Vehicle Front Right Side	Front and Rear Occupant Compartment (Stalex)	8	1	1	1000			

Figure 9 : Camera Locations - on Board

- 3. Test Parameter and Results
 - 3.1 Crash Test Summary
 - 3.1.1 Target Vehicle
 - 3.1.2 Side Impactor (19° Crabbed Barrier)
 - 3.2 Pre-Test Conditions
 - 3.2.1 Driver Pre-Test Position
 - 3.2.2 Rear Passenger Pre-Test Position
 - 3.3 Vehicle Pre- and Post-Test Position
 - 3.4 Post-Test Observations
 - 3.5 Dummy Test Response
 - 3.5.1 Dummy Test Response Summary - Driver
 - 3.5.2 Dummy Test Response Summary - Rear Passenger
 - 3.5.3 AIS and Coefficients
 - 3.6 Target Vehicle Test Response
 - 3.6.1 Pre- and Post-Test Measurements
 - 3.6.2 Exterior and Interior Vehicle Measurement
 - 3.6.3 Exterior and Interior Static Crush (Top View)
 - 3.6.4 Exterior and Interior Static Crush (Front View)
 - 3.7 Crabbed Barrier Test Response
 - 3.7.1 Pre- and Post-Test Frontal Profile
 - 3.7.2 Exterior Static Crush

TEST NO : 8

Table 4 : Crash Test Summary for Side Impactor

VEHICLE DATA		TEST	8
Test Vehicle	19 ⁰ Crabbed Side Impactor		
Overall Length/Width (mm)	4000 / 2155		
Test Weight by Axle (kp)	LR	398	RR 383
	LF	390	RF 401
Total Weight (kp)	1572		
Wheelbase (mm)	2591		
Longitudinal C.G. (from Center of Front Axle) (mm)	1266		
Impact Angle (deg)	60		
Impact Speed (mph)	31.1		
Maximum C.G. Resultant Velocity Change (mph // msec)			
Maximum C.G. Average Resultant Compartment Acceleration (G // msec)			
Maximum Static Crush (mm)			
● Row C (Top of Stack Level)	79		
● Row B (Mod-Stack Level)	71		
● Row A (Bumper Level)	171		
<u>OCCUPANTS</u>			
Type	-		
Location	-		
Restraints	-		
<u>INSTRUMENTATION</u>			
Number of Data Channels	10		
Number of Cameras (Ground Based)	8		

TEST NO : 8

Table 3 : Crash Test Summary for Target Vehicle

VEHICLE DATA		TEST 8	
Test Vehicle		Modified Rabbit	4-Door
Overall Length/Width (mm)		3980	/ 1610
Test Weight by Wheel (kp)		LR 282	RR 261
		LF 340	RF 317
Total Weight (kp)		1200	
Wheelbase (mm)		2400	
Longitudinal C.G. (from Center of Front Axle) (mm)		1086	
Impact Angle (deg) *		60	
Impact Speed (mph)		0 (stationary)	
Maximum C.G. Resultant Velocity Change (mph // msec)			
Maximum C.G. Resultant Acceleration (G // msec)			
Maximum Door Acceleration (G // msec)**		168.3	// 9.0
Maximum Exterior Static Crush (mm)			
• Level 4 (32.0")		349	
• Level 3 (26.0")		392	
• Level 2 (20.0")		364	
• Level 1 (12.0")		240	
Maximum Post-test Intrusion (mm)		337	
OCCUPANTS			
Type		SID	SID
Location		Driver	Left Rear Passenger
Restraints		VW-RA	Pelvis Belt
INSTRUMENTATION			
Number of Data Channels		68	
Number of cameras (On Board)		3	

* With respect to bullet vehicle.

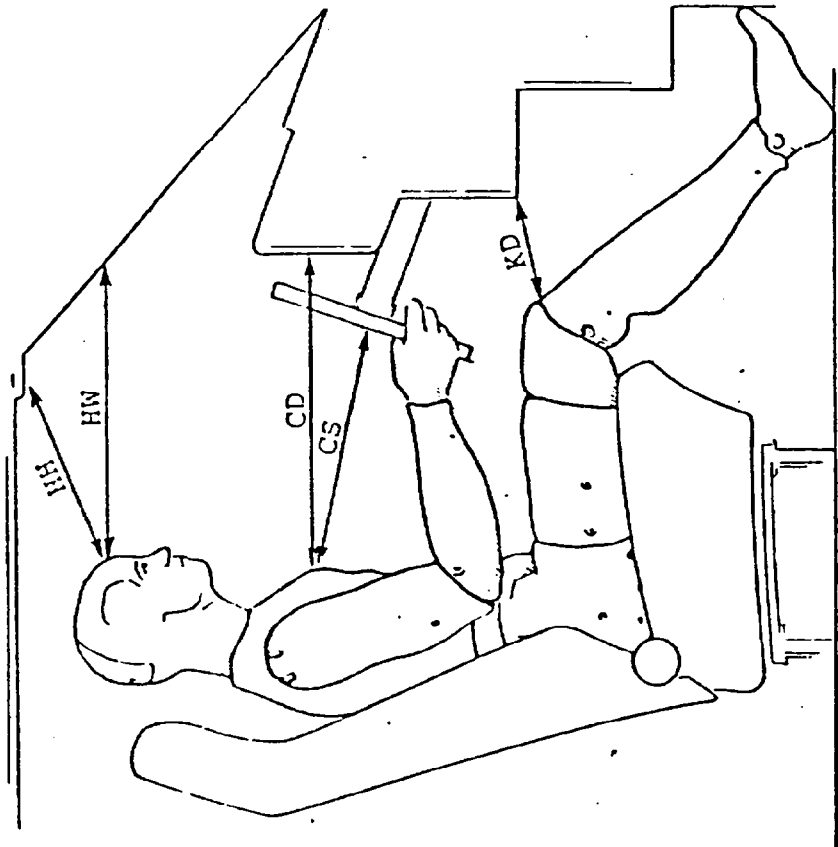
**At mid-rear edge of left front door.

Test No.: 8 Vehicle: 8 LF 340 (kp) RF 317 (kp)
 Test Date: 04.22.1982 Total Test Wt. 1200 (kp) LR 282 (kp) RR 261 (kp)

HEAD RESTS - up down other none
 FRONT SEAT - forward midpoint rearward latched welded
 FRONT SEAT TILT - forward midpoint back other 25° none
 REAR SEAT - in place removed
 STEERING WHEEL - up midpoint down not adjustable
 SUN VISORS - up down removed
 GLOVE COMPARTMENT - locked closed none
 SEAT BELT - fastened unfastened removed none
 SHOULDER HARNESSSES - fastened unfastened removed
 VENT WINDOW - closed open removed none stationary
 LEFT FRONT WINDOW - up down removed
 RIGHT FRONT WINDOW - up down removed
 LEFT REAR WINDOW - up down removed
 RIGHT REAR WINDOW - up down removed
 BACKLIGHT - in place removed
 LEFT FRONT DOOR - closed locked removed
 RIGHT FRONT DOOR - closed locked removed
 LEFT REAR DOOR - closed locked removed
 RIGHT REAR DOOR - closed locked removed
 ENGINE - in place removed mounts modified
 TRANSMISSION - neutral other _____ removed
 DRIVESHAFT - in place removed
 PARKING BRAKE - off on disconnected
 FRONT BUMPER - in place removed none
 REAR BUMPER - in place removed none
 HOOD - in place removed
 WINDSHIELD WIPERS - in place removed
 FUEL TANK - 95 Percent full empty other _____
 RADIATOR - full empty none removed
 BATTERY - in place removed drained
 SPARE TIRE - in place removed none
 JACK - in place removed none
 WHEEL COVERS - in place removed none
 BALLAST - none _____ kg
 DUMMY LOCATION - LF RF LR RR none
 DUMMY POSITIONING CRITERIA - FMVSS 208 side impact criteria other

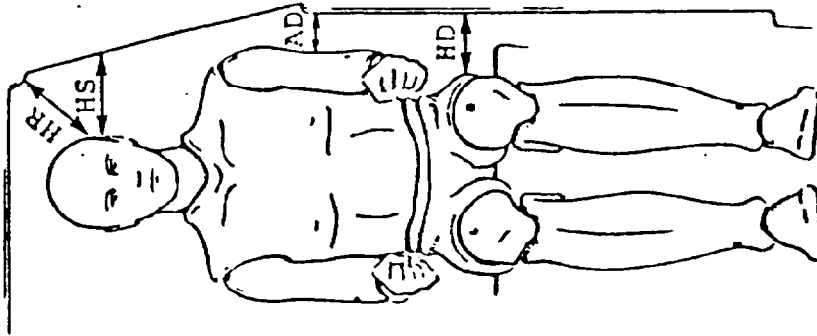
Table 5 : Pre-Test Conditions

TEST NO : 8



HH=	380	15.0
HW=	520	20.5
CD=	510	20.1
CS=	390	15.3
KD=	90	3.5

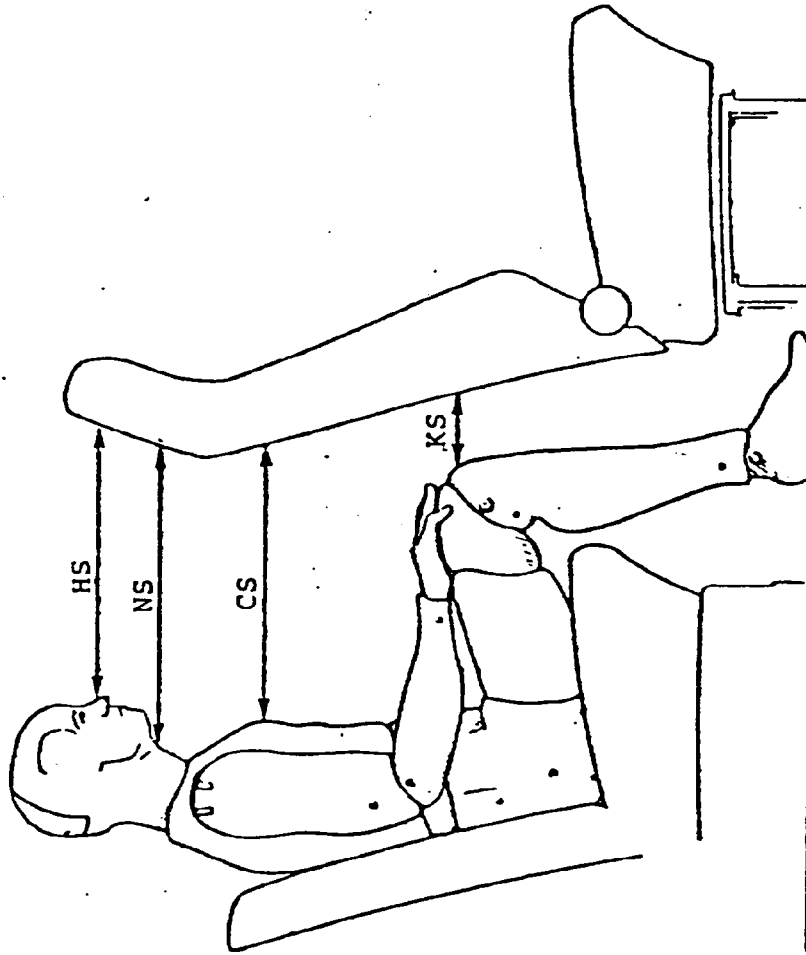
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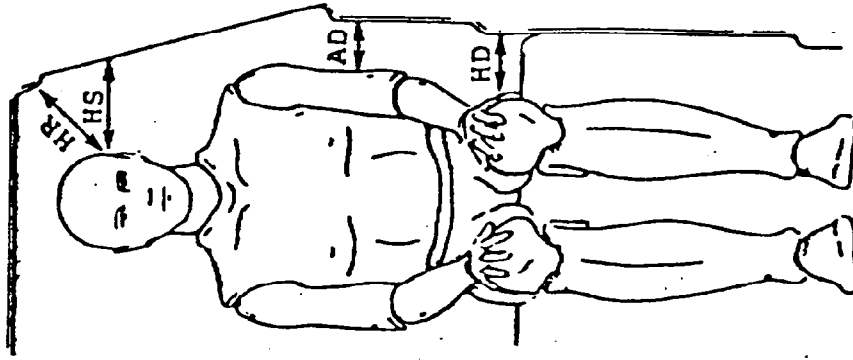
HR=	155	6.1
HS=	165	6.5
AD=	100	3.9
HD=	150	5.9

Table 6: Driver Pre-Test Position

TEST NO : 8



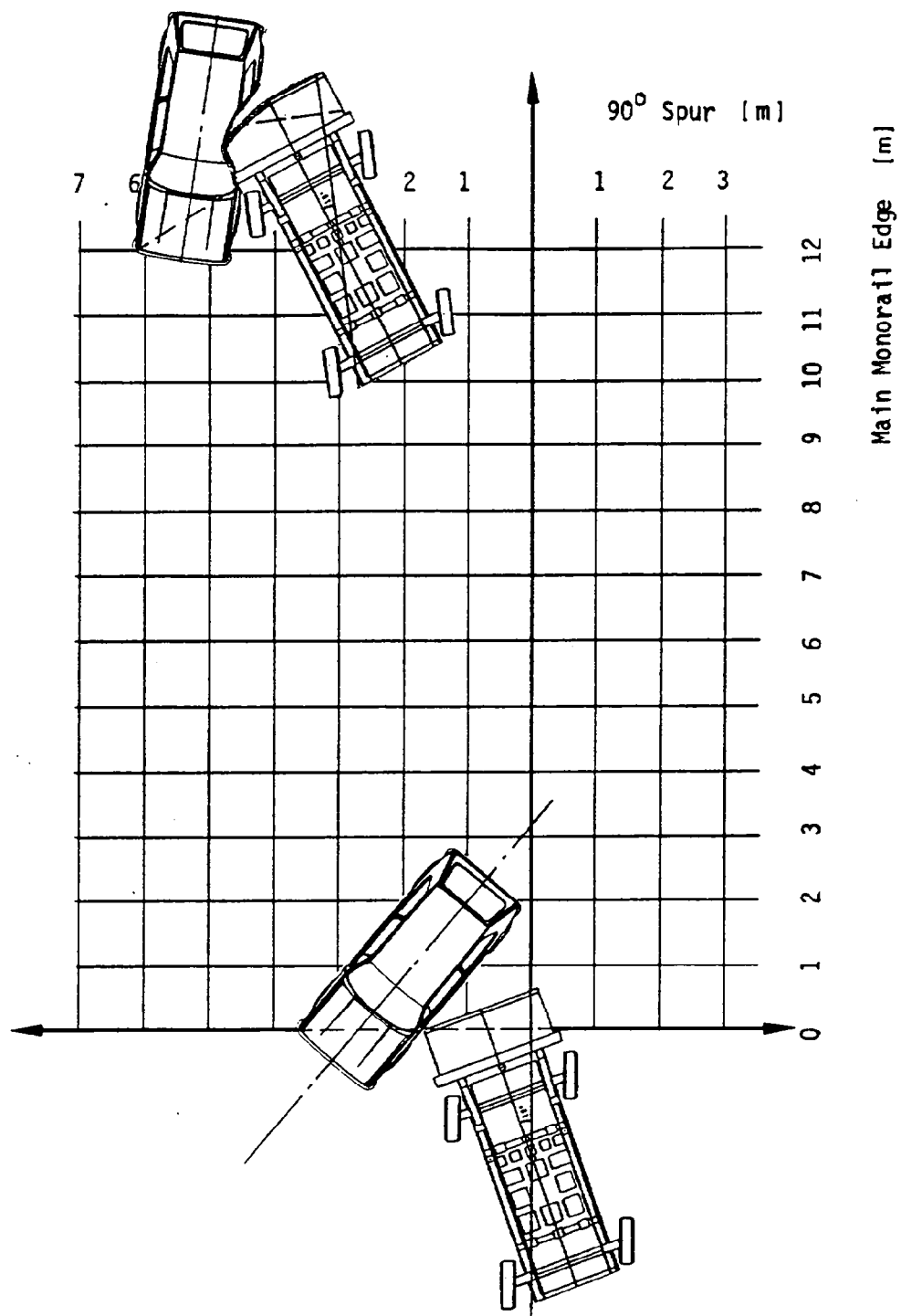
HS	480	<u>18.1</u>
NS	520	<u>20.5</u>
CS	420	<u>16.5</u>
KS	120	<u>4.7</u>



HR	170	<u>6.7</u>
HS	165	<u>6.5</u>
AD	125	<u>4.9</u>
HD	160	<u>6.3</u>

Table 7 : Rear Passenger Pre-Test Position

**Table 8 : Vehicle Pre- and Post-
Test Position**



TEST NO : 8

Table 9: Summary of Post-Test Observations

VEHICLE: VW Rabbit 8

Test No. (Moving Test Device) 8

Dummy Contact Points:	<u>Left Front</u>	<u>Left Rear</u>
Head	<u>no Contact</u>	<u>Contact at C-Pillar and</u>
		<u>Roof-Line</u>
Chest	<u>Upper Door Panel and</u>	<u>Upper Door Panel and</u>
	<u>Lower Window-Sill</u>	<u>Lower Window-Sill</u>
Knees/Hip	<u>Lower Front-Door Panel</u>	<u>Lower Rear-Door Panel</u>

Glazing: Left Front- and Rear Side-Window shattered. Windshield no damage.

Doors: Left Front- and Rear Door damaged, would not open.

Seat Belt Anchorages : Left Seat Frame damaged, but Seat Anchorages
remained intact; Seat-Legs and Seat-Runner fixed in the Floor-Rails.

Restraints: Driver (RA) and Left Rear (Lap - Belt) in use.

Fuel Leakage: None

General Observations: Impact Point 650 mm from Front Axle.

Side Impactor Bumper impacted into the Door-Beams. B-Pillar damaged and
bended on the Level of the Window-Sill.

Interlock of Door Beam-Side Sill and Door Beam to B-Pillar Attachment
remained intact. ,

A-Pillar slightly bend on the Level of the Wheelhouse-Beam.

Driver Dummy - no damage

Left Rear Dummy - Damper-Bracket was broken.

TEST NO. 8TEST DATE 04.22.1982TEST CONFIGURATION:

Target Vehicle Modified Rabbit 4-Door Speed 0 [mph]
 Bullet Vehicle 19° Crabbed Side Impactor Speed 31.10 [mph]
 Impact Location behind Front Axle 650 [mm] Angle 60° [deg]

PASSENGER: D R I V E RHEAD RESPONSE:Peak a_R defect [g]Impacted Objekt noneHIC ----Time T 1 -- [ms] T 2 -- [ms]CHEST RESPONSE:

Location	[g]	$\geq 3ms$ [g]	SI	Δv_y [mph]	Imp. Time [ms]	Time a-max [ms]
Upper Sternum (X)	52.8	39.6	--	--	47	52.5
Lower Sternum (X)	51.7	42.8	--	--	45	59.5
LUR (Y)	153.3	83.1	--	19.99	44.5	51.5
LLR (Y)	119.4	64.0	--	18.87	43.5	51.0
RUR (Y)	114.6	80.9	--	18.68	48.0	57.5
RLR (Y)	92.9	76.5	--	21.22	42.0	59.0

CHEST DEFLECTION: Damper - DY 48.5 [mm]VERTEBRAL COLUMN RESPONSE:

Location	Pk a_y [g]	Pk a_R [g]	$\geq 3 ms$ [g]	SI	Δv_y [mph]	Imp. Time [ms]	Time a-max [ms]
Upper Thorax (T1)	75.7	77.4	69.8	533	19.61	45	64
Lower Thorax (T12)	86.5	86.9	81.3	618	23.16	45	54

PELVIS RESPONSE:Pk a_R [g] 75.1 SI 300 $\geq 3 ms$ [g] 51.5 Impact Time [ms] 30

Table 10: Side Impact Dummy Test Response Summary

TEST NO. 8TEST DATE 04.22.1982TEST CONFIGURATION:

Target Vehicle Modified Rabbit 4-Door Speed 0 [mph]
 Bullet Vehicle 19° Crabbed Side Impactor Speed 31.10 [mph]
 Impact Location behind Front Axle 650 [mm] Angle 60° [deg]

PASSENGER: LEFT REARHEAD RESPONSE:Peak a_R defect [g]Impacted Objekt C-Pillar and Roof LineHIC ---Time T 1 --- [ms] T 2 --- [ms]CHEST RESPONSE:

Location	[g]	$\geq 3ms$ [g]	SI	Δv_y [mph]	Imp. Time [ms]	Time a-max [ms]
Upper Sternum (X)	26.5	21.4	--	--	86	100.0
Lower Sternum (X)	44.3	29.4	--	--	75	87.5
LUR (Y)	32.6	29.8	--	--	75	82.0
LLR (Y)	46.3	34.5	--	--	71	80.0
RUR (Y)	33.0	28.5	--	--	77	90.0
RLR (Y)	40.1	31.2	--	--	75	88.5

CHEST DEFLECTION: Damper - DY 36.5 [mm]VERTEBRAL COLUMN RESPONSE:

Location	Pk a_y [g]	Pk a_R [g]	$\geq 3 ms$ [g]	SI	Δv_y [mph]	Imp. Time [ms]	Time a-max [ms]
Upper Thorax (T1)	36.4	37.9	32.5	197	16.1	90	100.5
Lower Thorax (T12)	42.8	48.2	36.8	204	24.0	78	94.0

PELVIS RESPONSE:Pk a_R [g] 59.4 SI 309 $\geq 3 ms$ [g] 53.6 Impact Time [ms] 60**Table 11: Side Impact Dummy Test Response Summary**

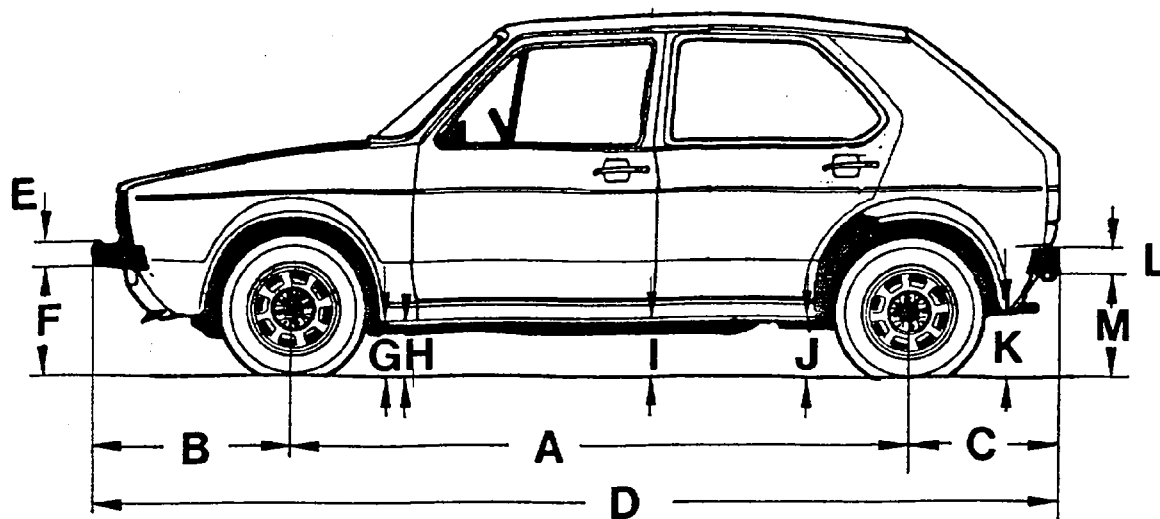
TEST NO. 8 TEST DATE 04.22.1982

COMPUTED COEFFICIENTS:

Location of Accelerometer	AIS B-Param.	AIS Av.Pow.	PAP TB / TE (ms)	B	Q	V ₁₀₅₀	V ₁₀₉₀	RVS
Left Upper Rib LUR	3.55	3.44	1781 49.4/ 55.6	6.8664	749.44	3.12	11.87	3.8000
Left Lower Rib LLR	3.52	3.43	1573 47.5/ 61.9	6.8431	897.62	5.00	17.50	3.5000
Upper Thorax T 1 Y	3.57	3.66	1944 53.1/ 68.8	6.8813	920.52	7.50	13.75	1.8333
Lower Thorax T 12 Y	3.64	3.66	1968 51.9/ 65.0	6.9267	810.09	4.37	10.62	2.4286

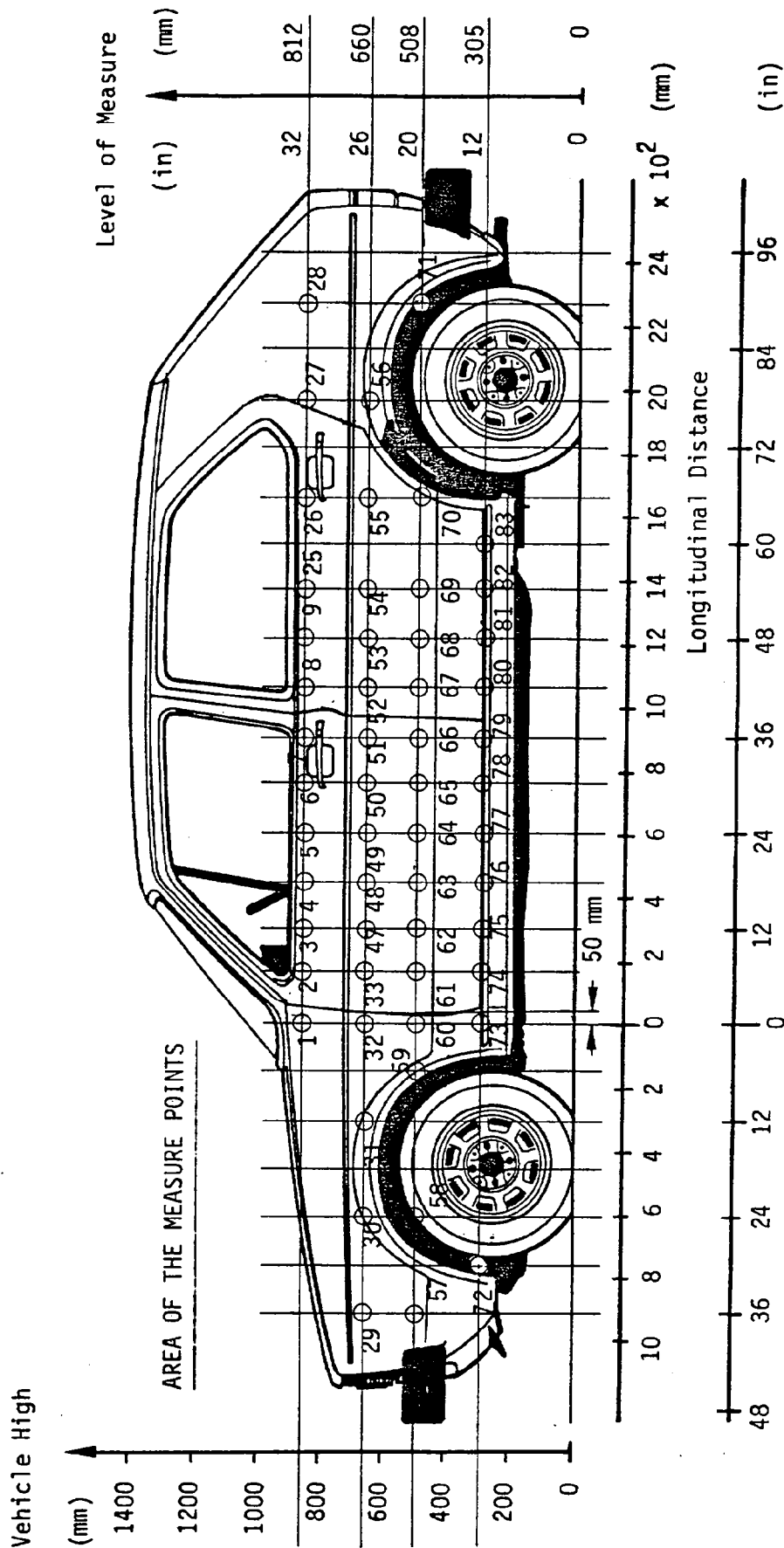
TABLE 12 : AIS AND COEFFICIENTS

TEST NO : 8



	PRE - TEST	POST - TEST	Δ CHANGE
A	2400	2320	- 80
B	825	830	5
C	700	690	- 10
D	3980	3920	- 60
E	125	125	0
F	372	435	63
G	168	198	30
H	166	192	26
I	154	195	41
J	152	200	48
K	180	220	40
L	125	125	0
M	280	335	55

Table 13: Pre - and Post- Test Measurements



TEST NO : 8

VEHICLE NO : 705 115

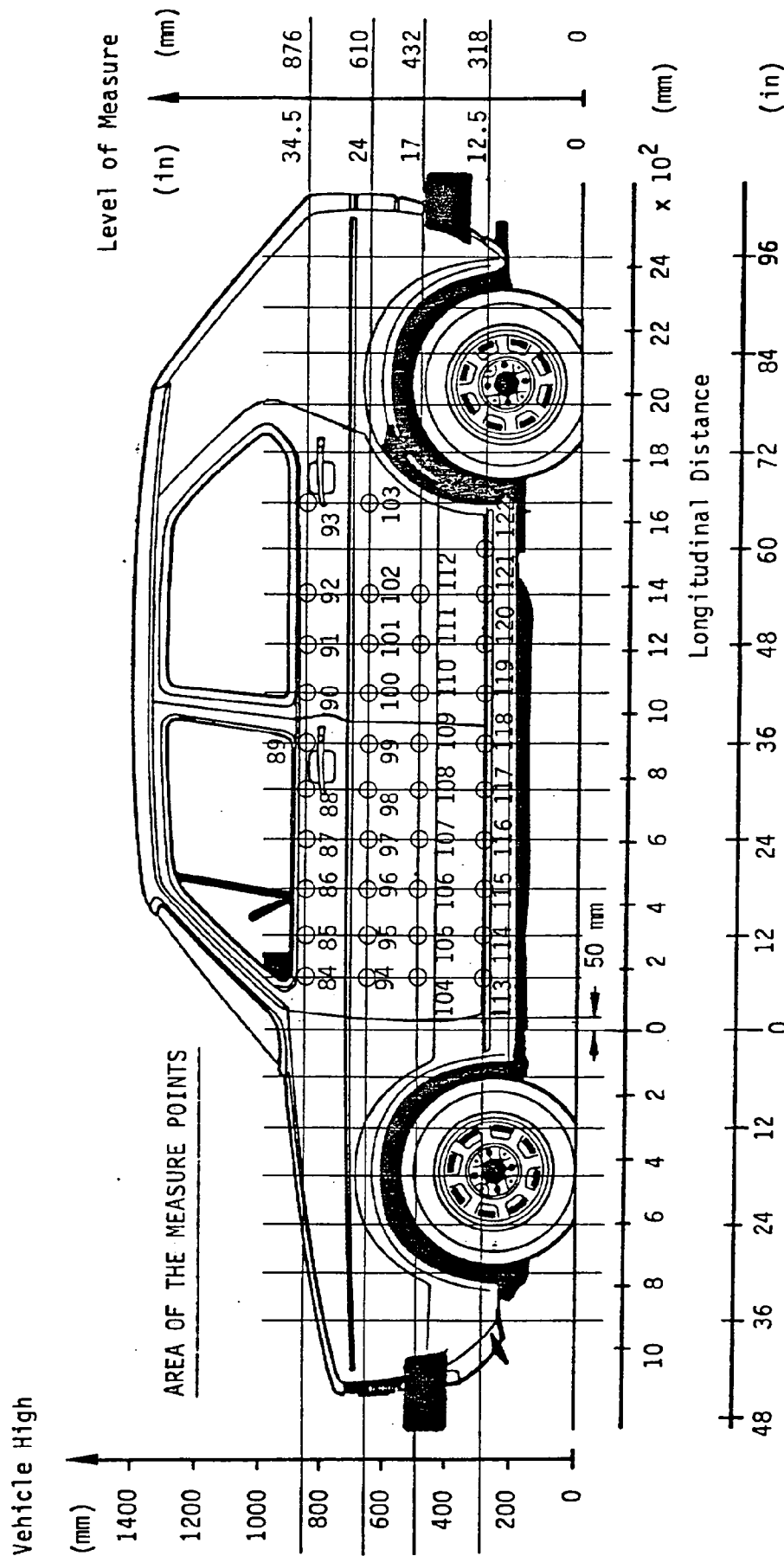
Figure 10: Vehicle Measurement Side (Exterior)

Table 14 : Exterior Static Crush for VW Rabbit

TEST NO : 8

Location	Height [mm] *	Zero Distance Located at Door [mm]														(Front)		(Rear)				
		762	610	457	305	152	0	62	159	227	293	335	349	311	256	180	--	45	--	0	+19	2286
Window-Sill	812	--	--	--	--	--	6	152	205	292	347	392	363	318	279	242	--	80	--	4	--	--
Bullet Vehicle Hood	660	+31	--	+18	1	--	14	105	205	292	347	392	363	318	279	242	--	80	--	4	--	--
Mid-Door	508	+33	--	+26	--	17	25	110	206	307	352	364	343	311	276	222	--	90	--	--	--	+20
Rocker-Sill	305	--	+41	--	--	--	16	114	144	185	200	224	240	223	139	77	31	--	--	--	--	--

* All heights measured above ground level.



TEST NO : 8 VEHICLE NO : 705 115

Figure 11 : Vehicle Measurement Side (Interior)

Table 15: Interior Static Intrusion for VW - Rabbit

TEST NO : 8

Location	Height [mm] *	Zero Distance Starting at Door [mm]											
		0	152	305	457	610	762	914	1067	1220	1372	1524	1676
Windowsill Level	876	--	42	133	199	261	296	337	316	242	163	--	27
Mid-door Level	610	--	55	166	228	270	303	331	282	214	157	--	74
Bullet Vehicle Bumper Level	432	--	111	185	215	227	251	265	234	157	--	--	--
Doorsill Level	305	--	55	70	105	134	152	192	142	48	--	--	--

* Heights measured above ground level.

Pre Test : _____
 Post Test : - - - - -

8

Test No: _____
 Test No: _____
 Test No: _____
 Test No: _____

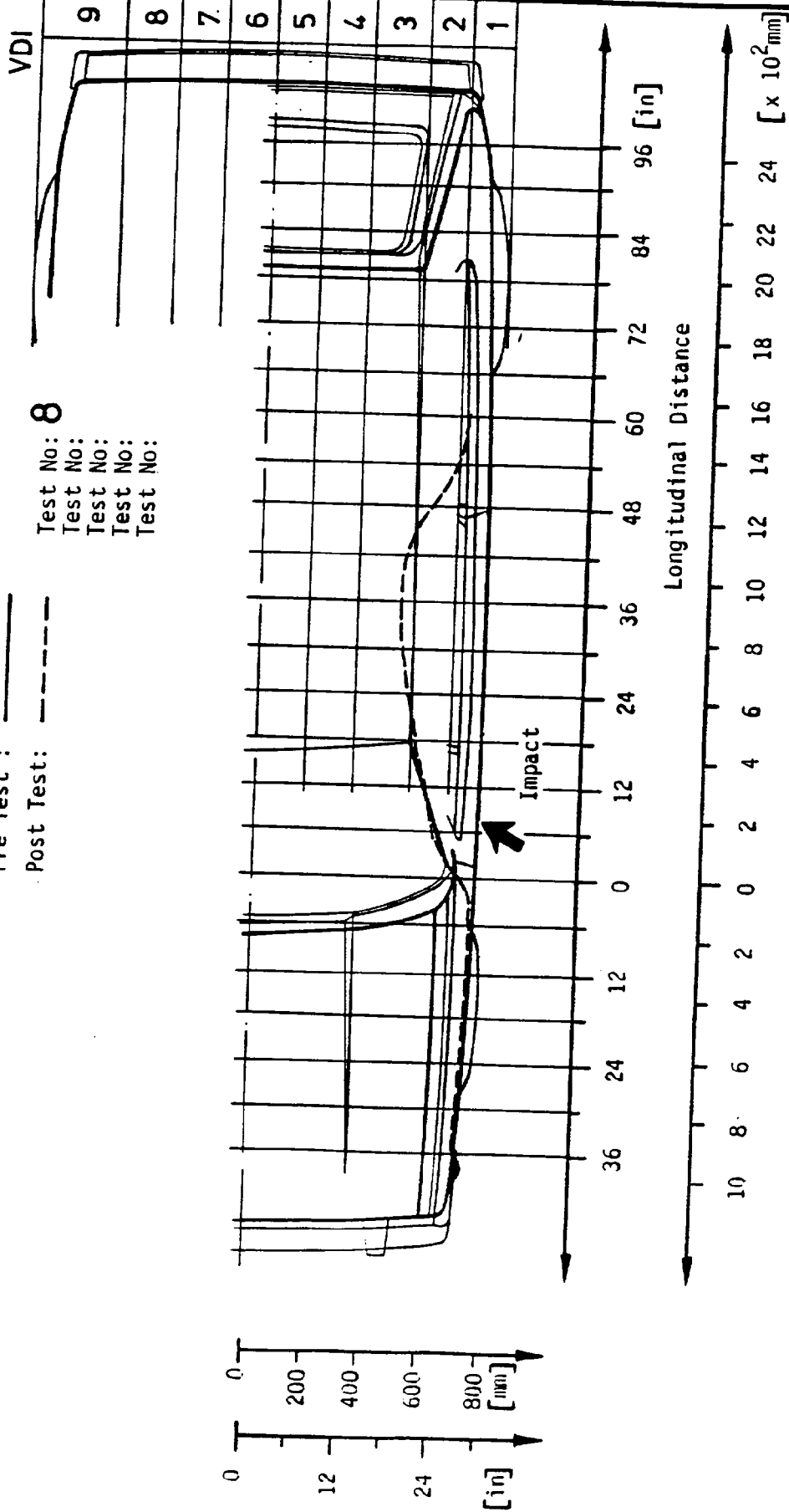
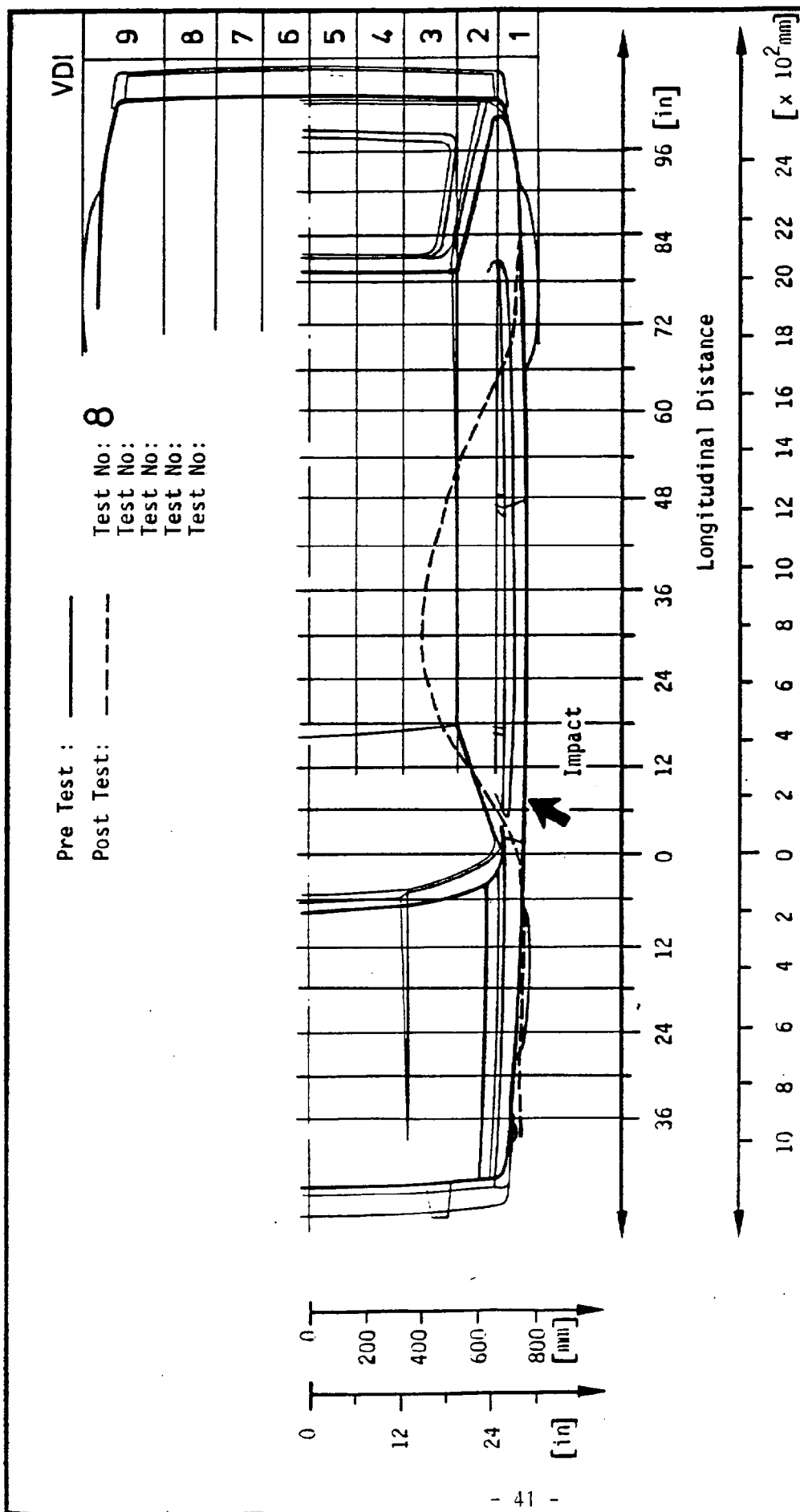


Table 16: Pre - and Post - Test Exterior Profiles at 305mm above Ground Level



**Table 17: Pre - and Post - Test Exterior Profiles at 508 mm above
 Ground Level**

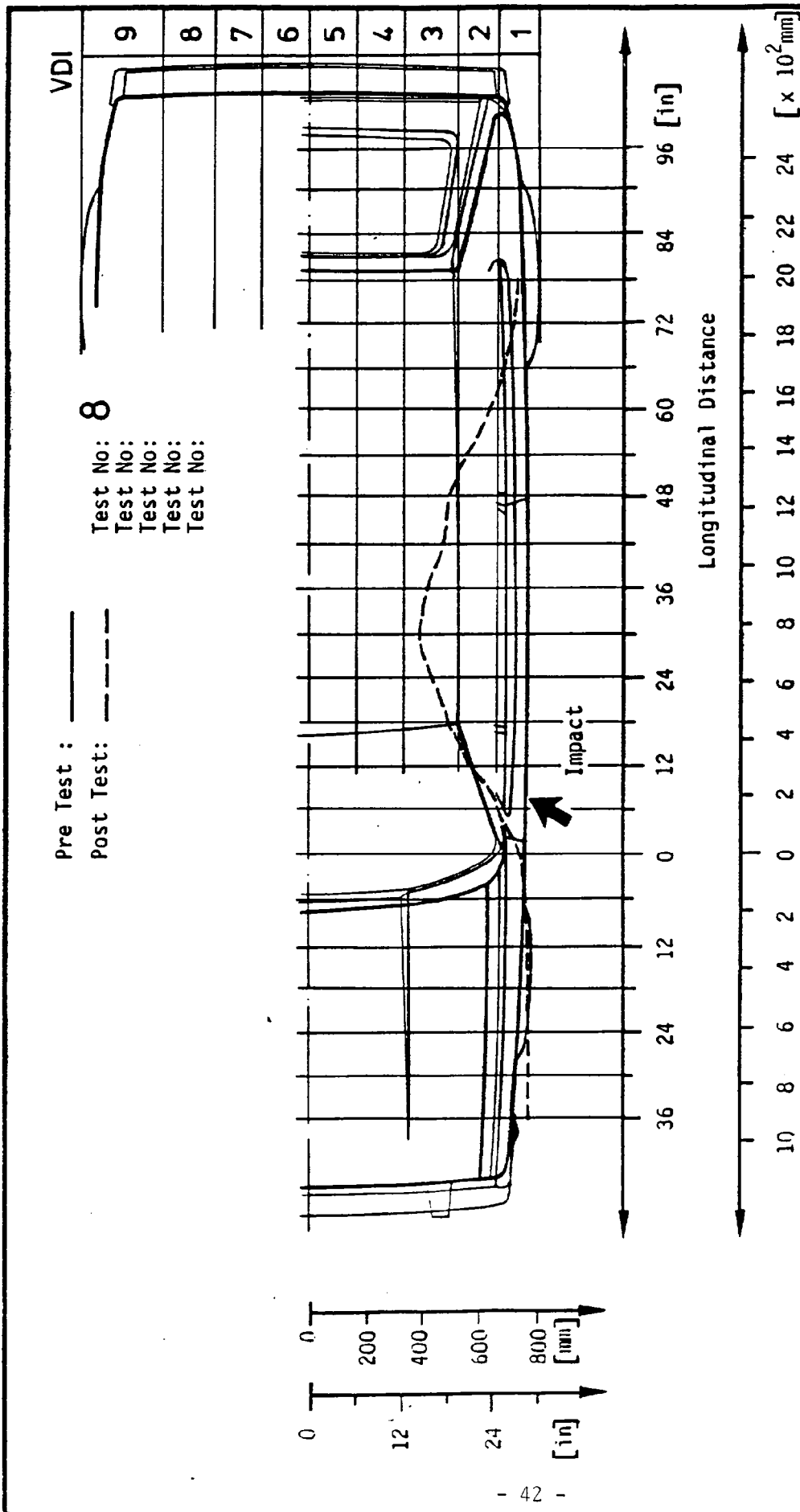
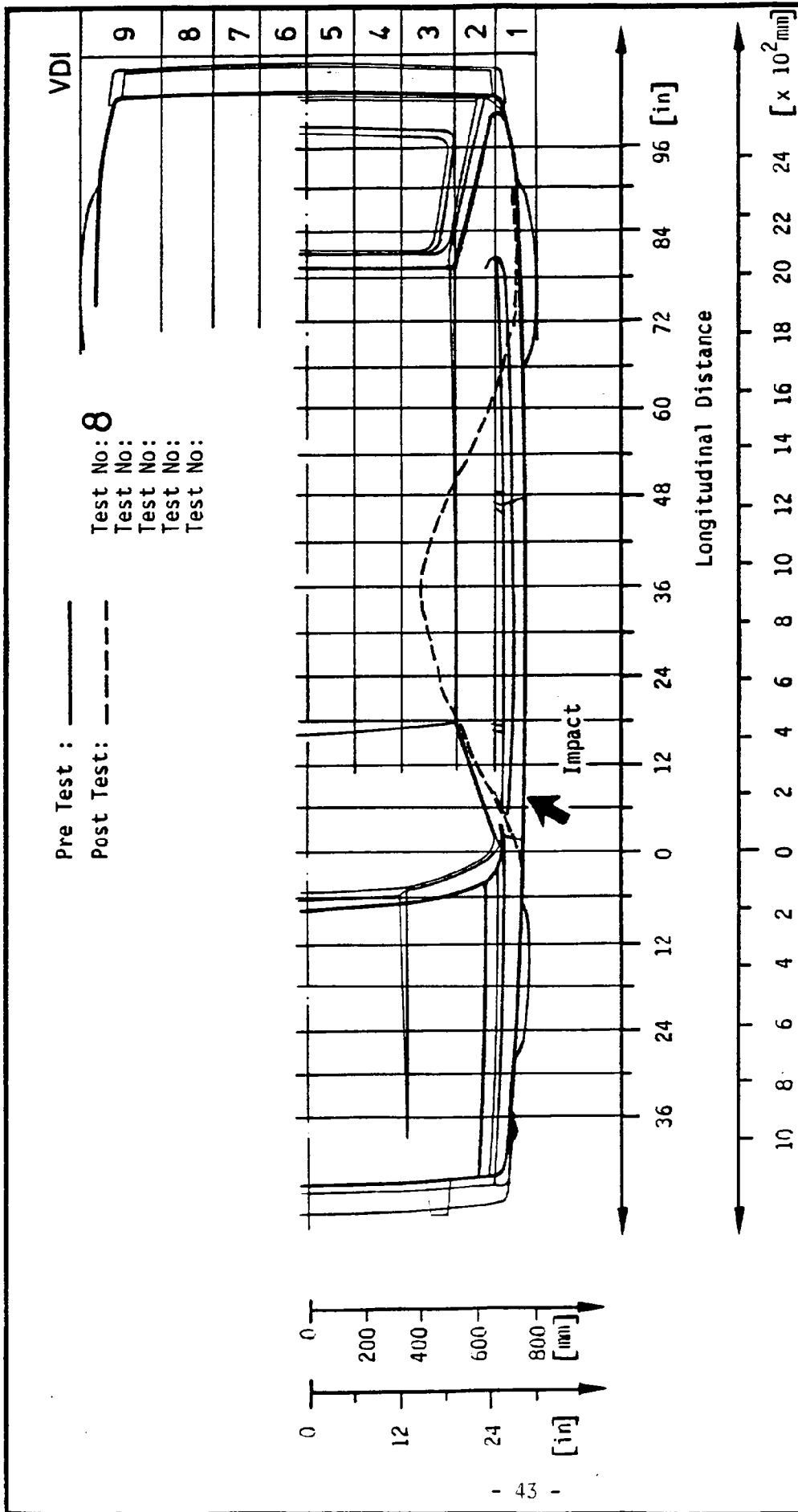


Table 18: Pre - and Post - Test Exterior Profiles at 660 mm above Ground Level



**Table 19: Pre - and Post - Test Exterior Profiles at 812 mm above
Ground Level**

Pre Test : _____
 Post Test : _____

Test No: 8
 Test No:
 Test No:
 Test No:
 Test No:

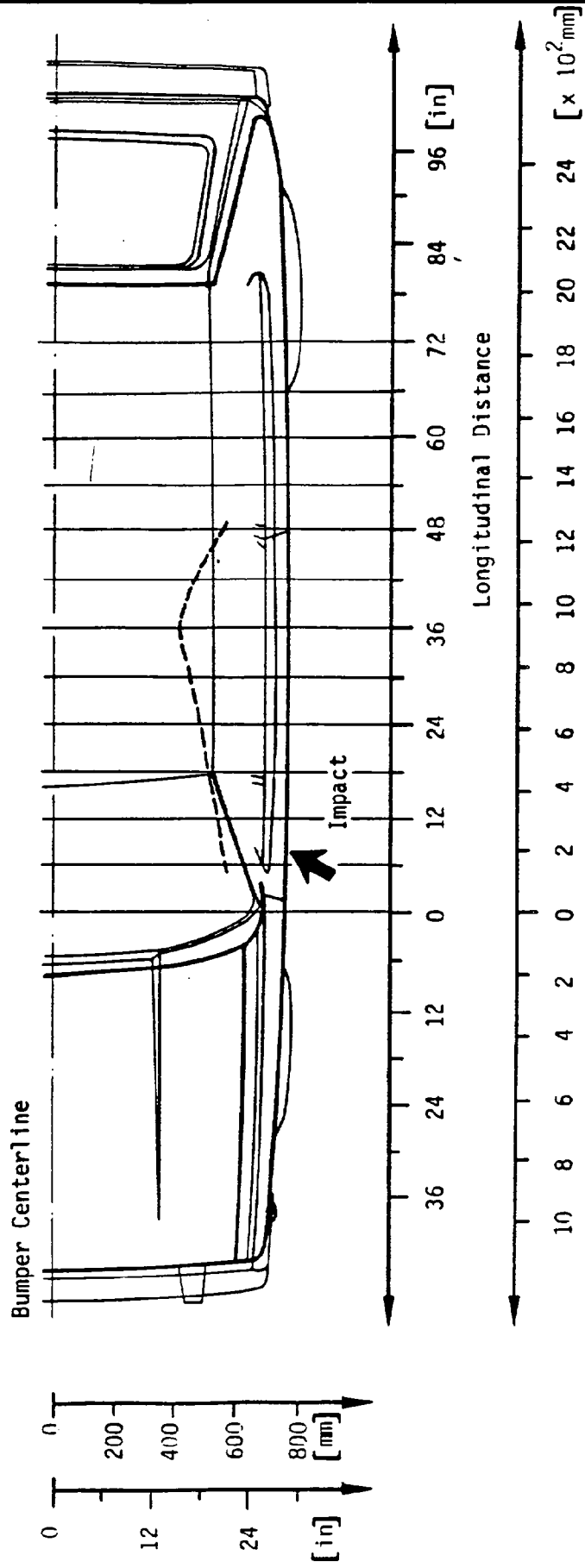
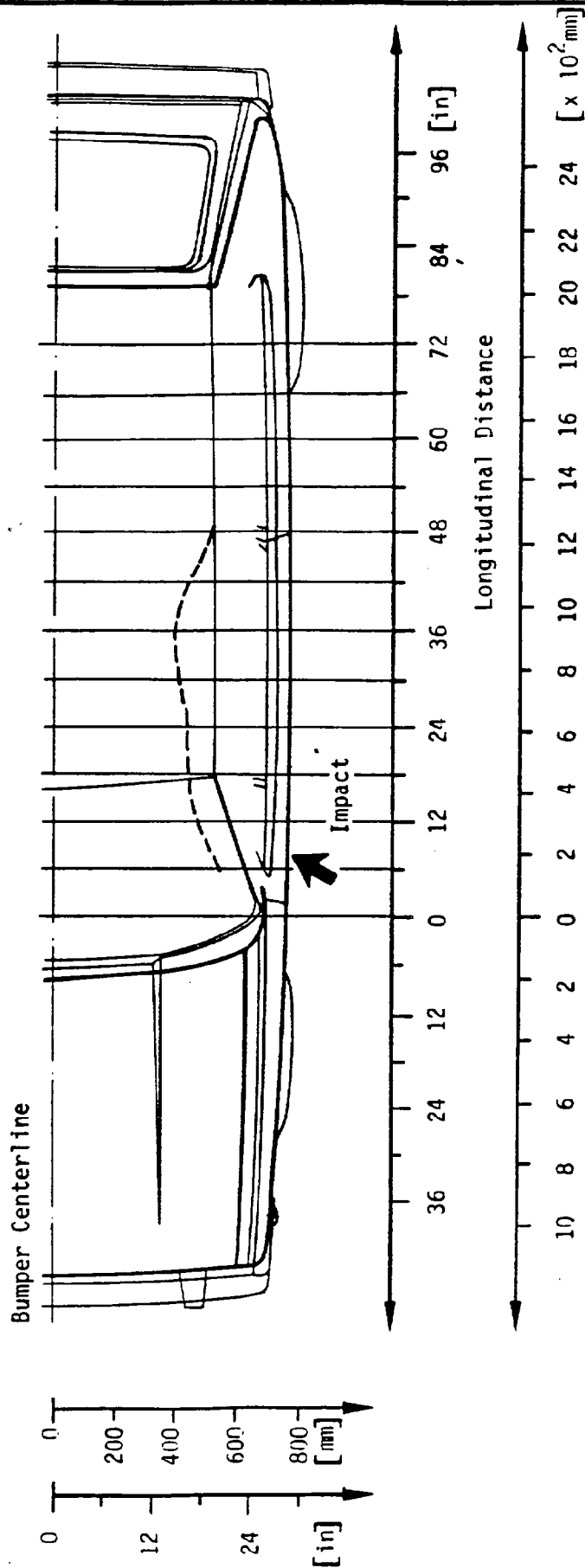


Table 20: Pre - and Post - Test Interior Profiles at 318 mm above Ground Level

Pre Test : _____
 Post Test : -----

8

Test No: _____
 Test No: _____
 Test No: _____
 Test No: _____
 Test No: _____



**Table 21: Pre - and Post - Test Interior Profiles at 432 mm above
 Ground Level**

Pre Test : _____
 Post Test : - - - - -

Test No: _____
 Test No: _____
 Test No: _____
 Test No: _____
 Test No: _____

8

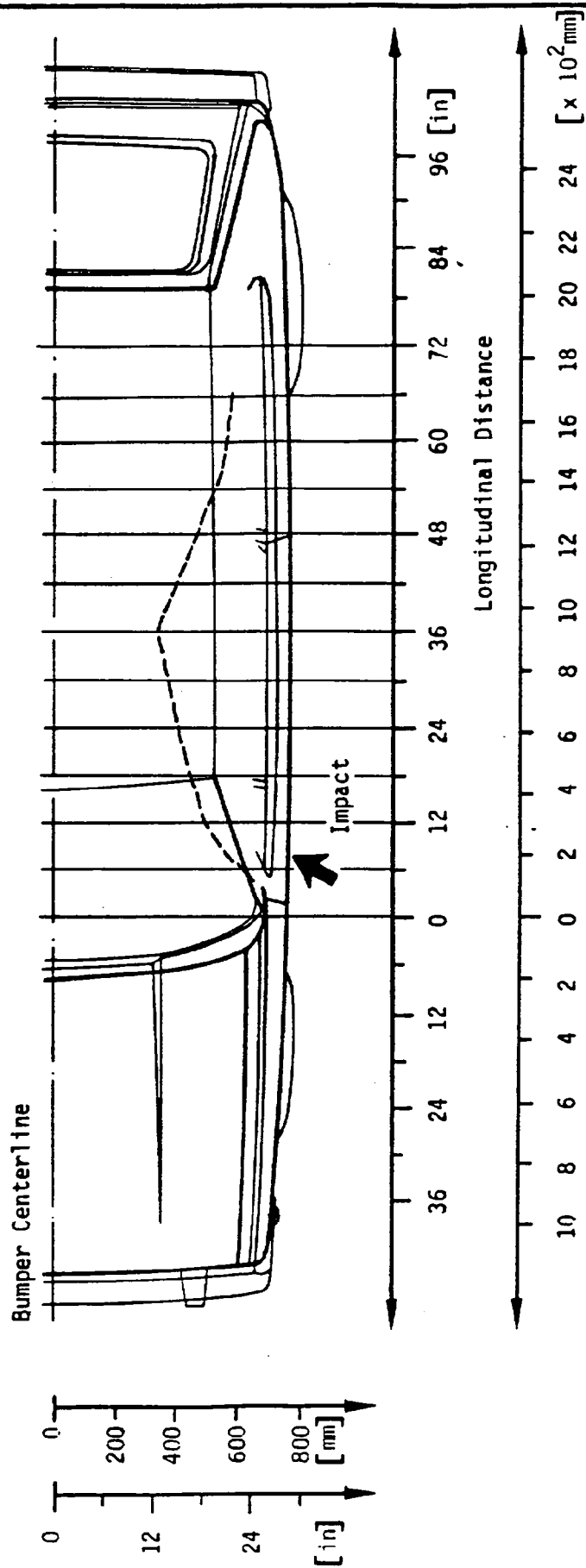


Table 22: Pre - and Post - Test Interior Profiles at 610 mm above Ground Level

Pre Test : _____
 Post Test : - - - - -

Test No: 8
 Test No:
 Test No:
 Test No:
 Test No:

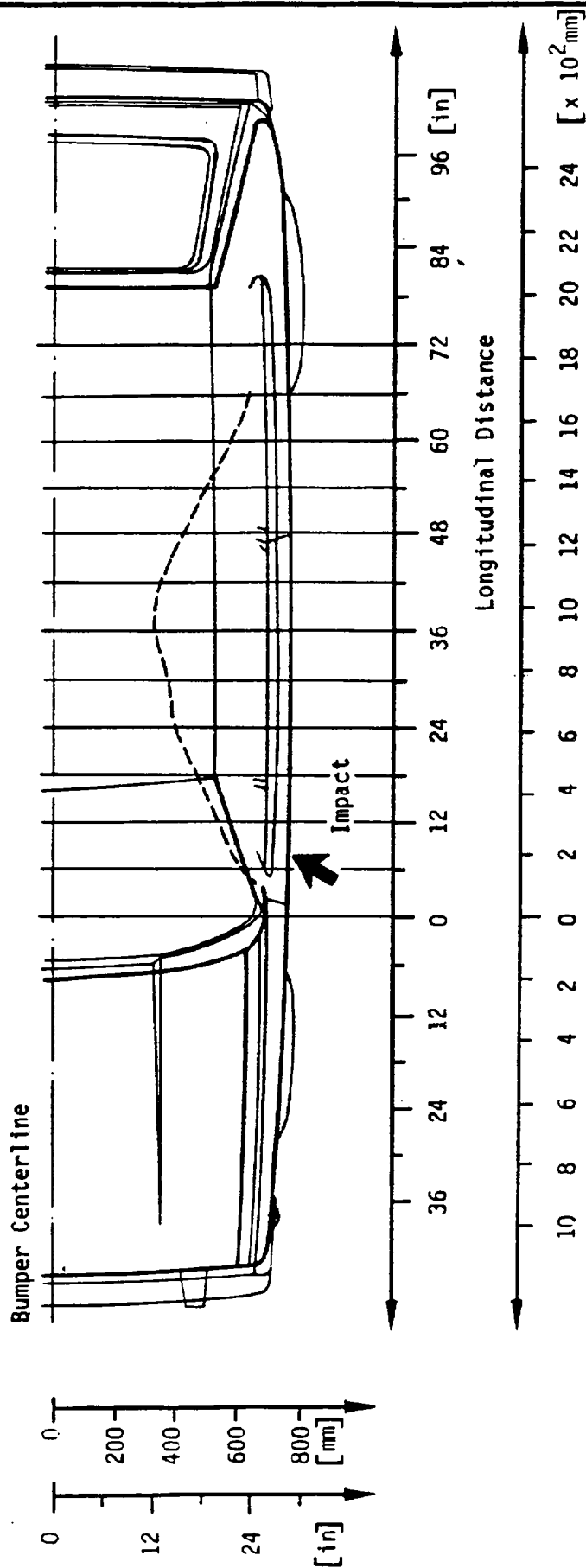
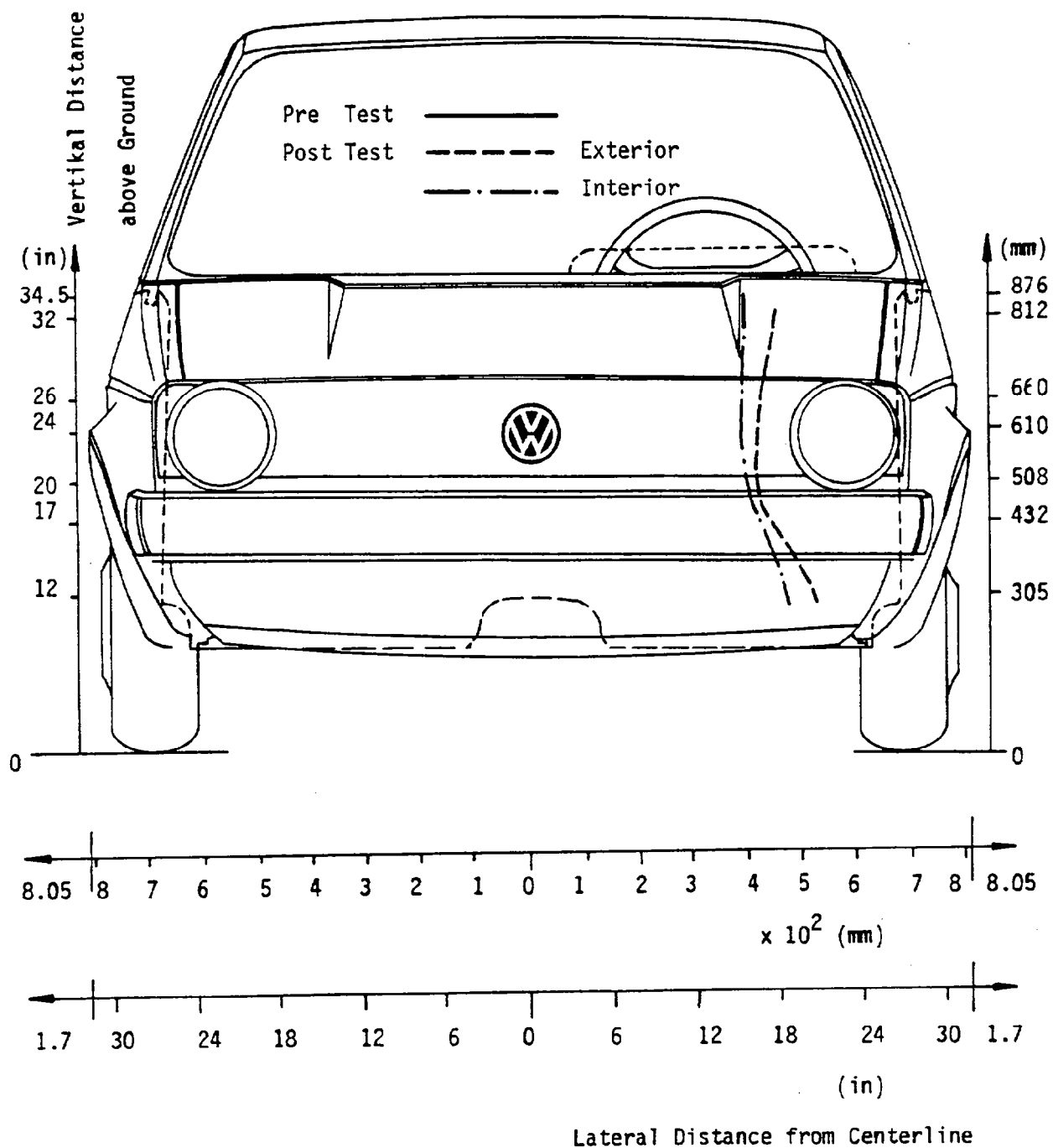
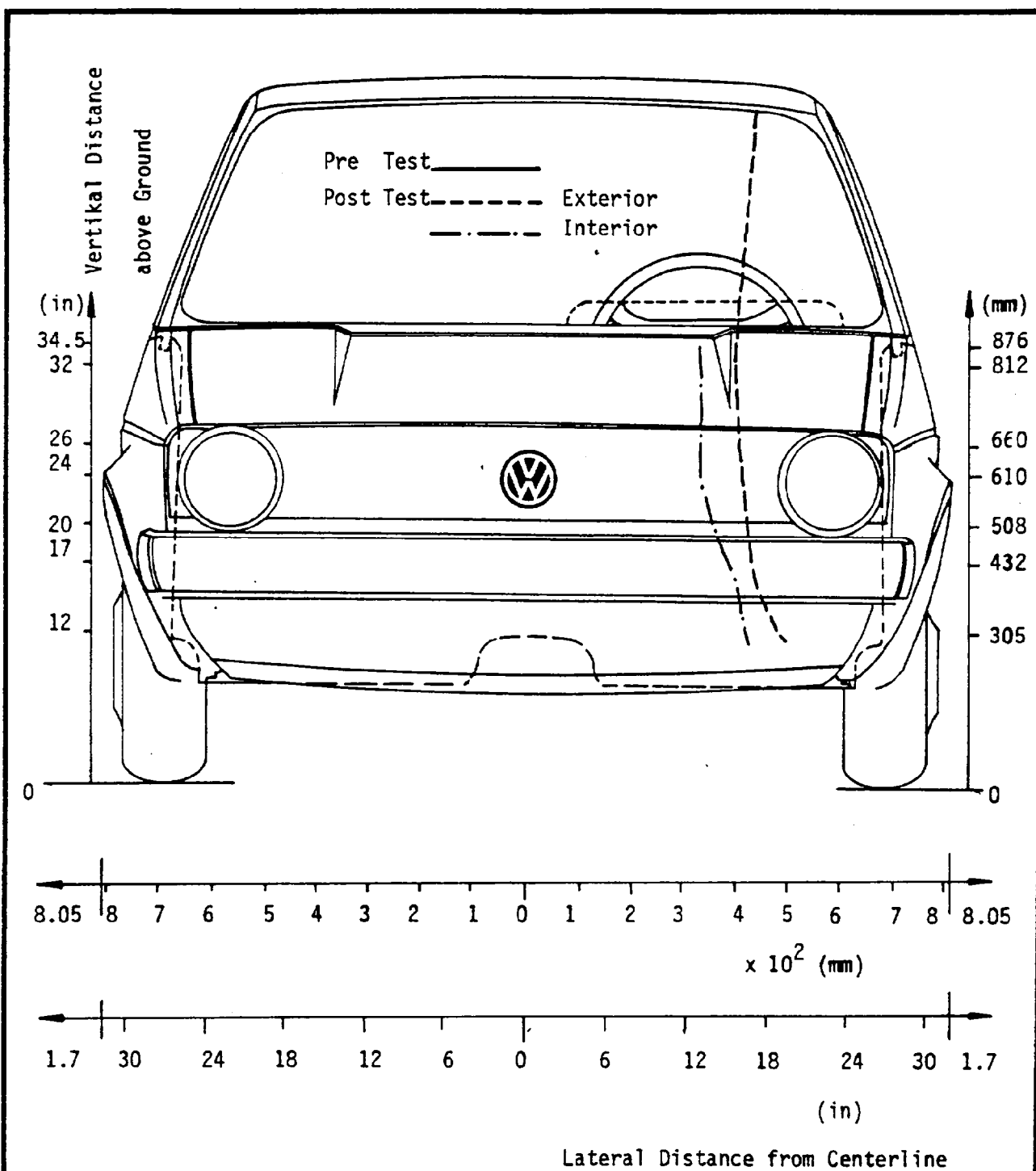


Table 23: Pre - and Post - Test Interior Profiles at 876 mm above Ground Level



TEST NO : 8

FIGURE 12 : EXTERIOR AND INTERIOR STATIC PROFILES AT THE
LONGITUDINAL DISTANCE 610 MM FROM DOOR



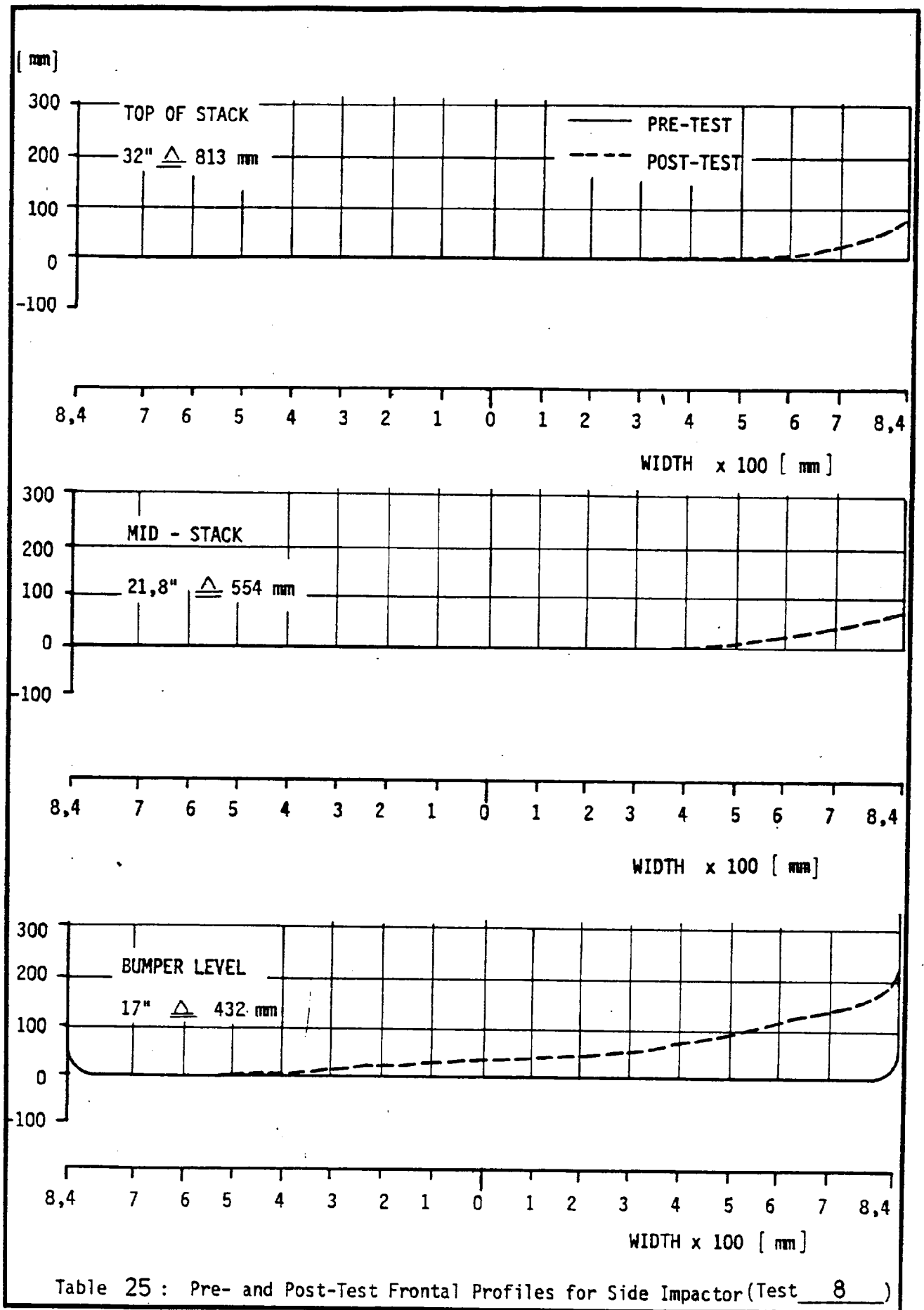
TEST NO : 8

FIGURE 13 : EXTERIOR AND INTERIOR STATIC PROFILES AT THE
LONGITUDINAL DISTANCE 914 MM FROM DOOR

TEST NO : 8

* Heights measured above ground level.

Impact side.



A P P E N D I X A

Photographs

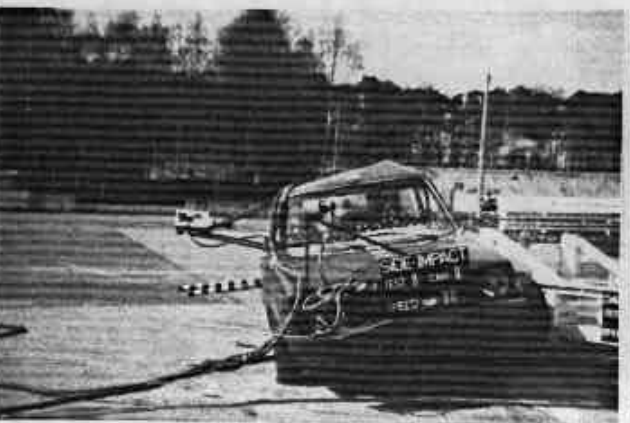
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A 4	VW Rabbit Left Side Post Test View	A - 5
A 5	VW Rabbit Left Side Post Test View (Rear-Side Direction)	A - 6
A 6	Crabbed Barrier Post Test View	A - 7

Figure A1 : Crash Sequence Figures

TEST 8 - 30 mph





A - 2A

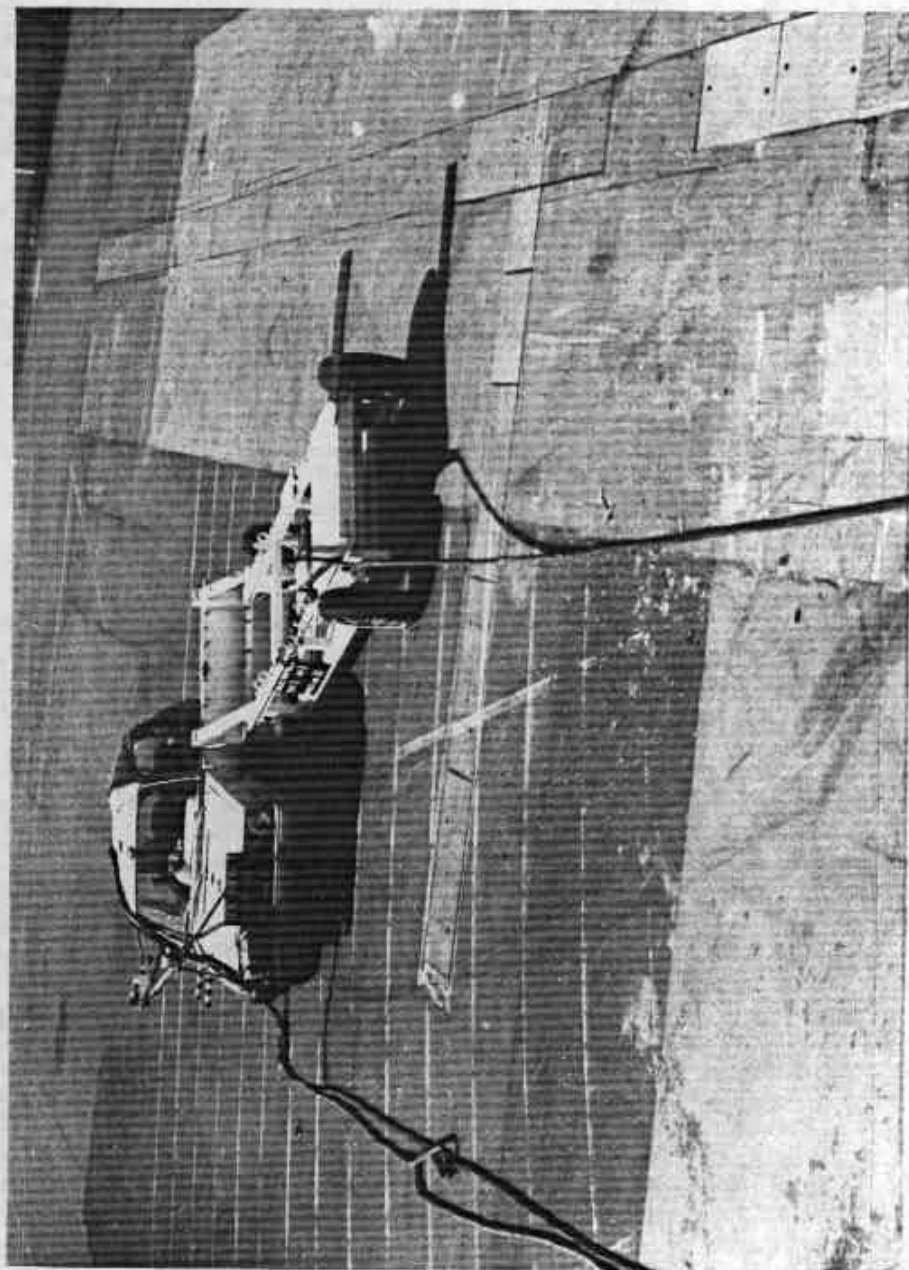


FIGURE A 2 : POST TEST 'POSITION'
CRABBED BARRIER AND VW RABBIT

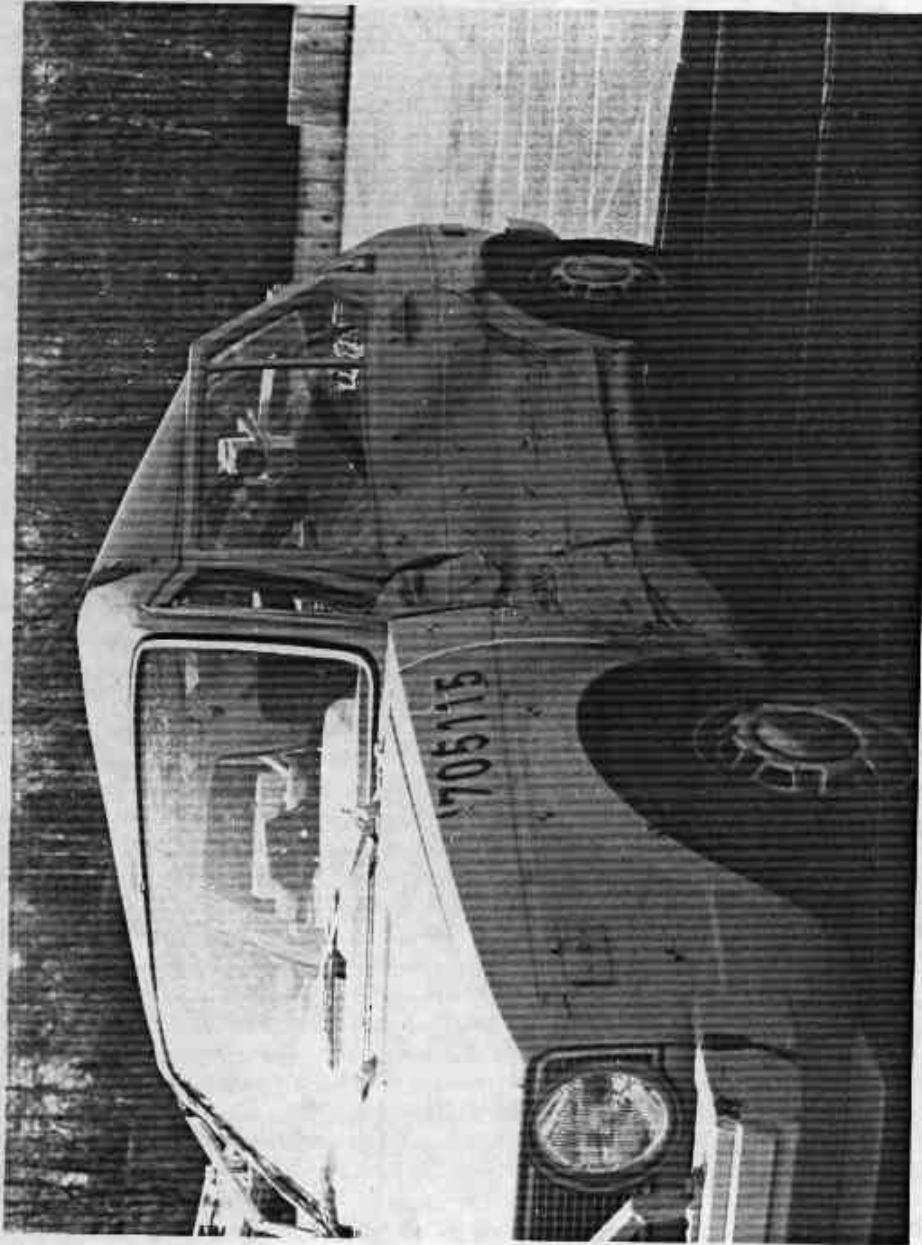


FIGURE A 3 : VW RABBIT LEFT SIDE
POST TEST VIEW (FRONT-SIDE DIRECTION)

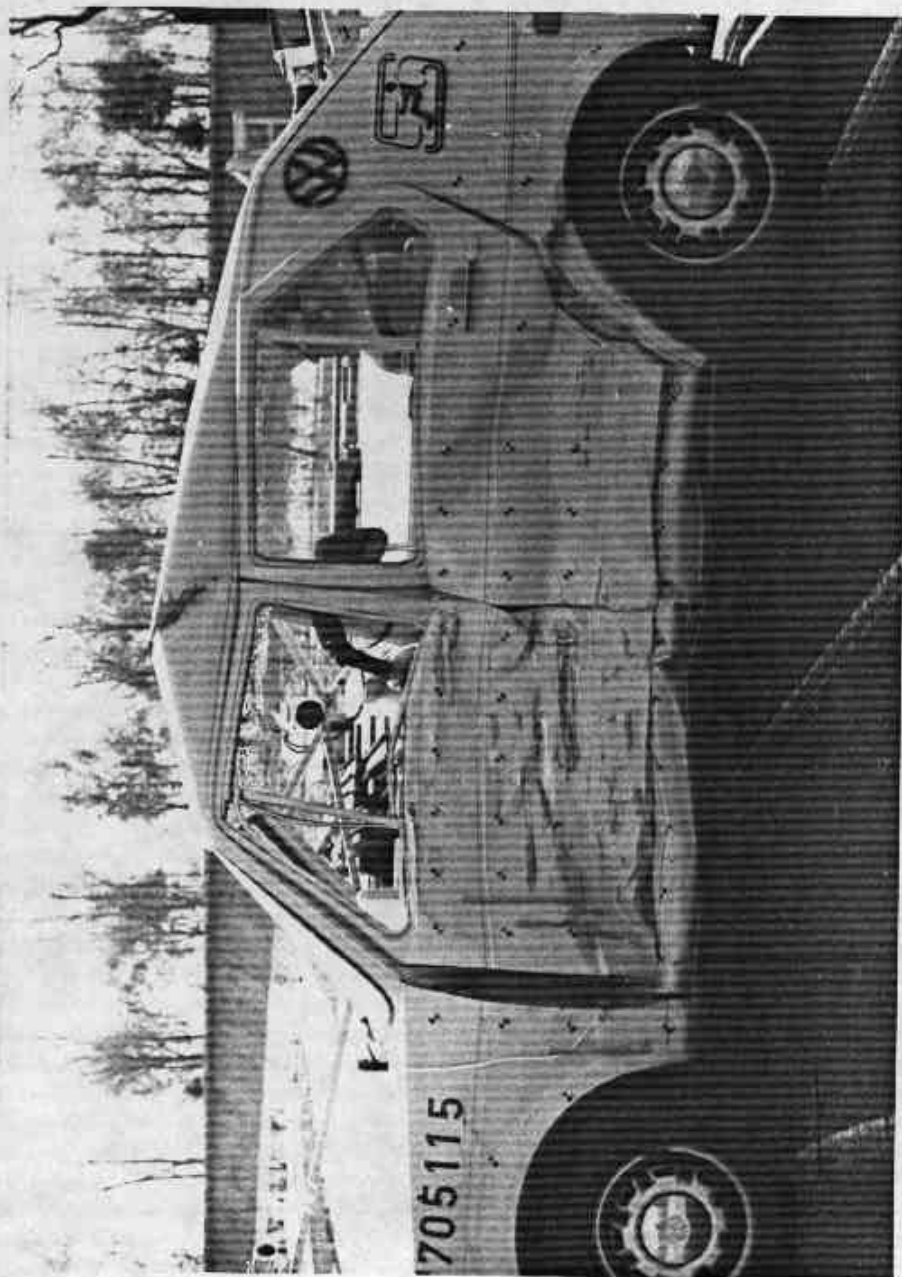


FIGURE A 4 : VW RABBIT LEFT SIDE
POST TEST VIEW



FIGURE A 5 : VW RABBIT LEFT SIDE
POST TEST VIEW (REAR-SIDE DIRECTION)

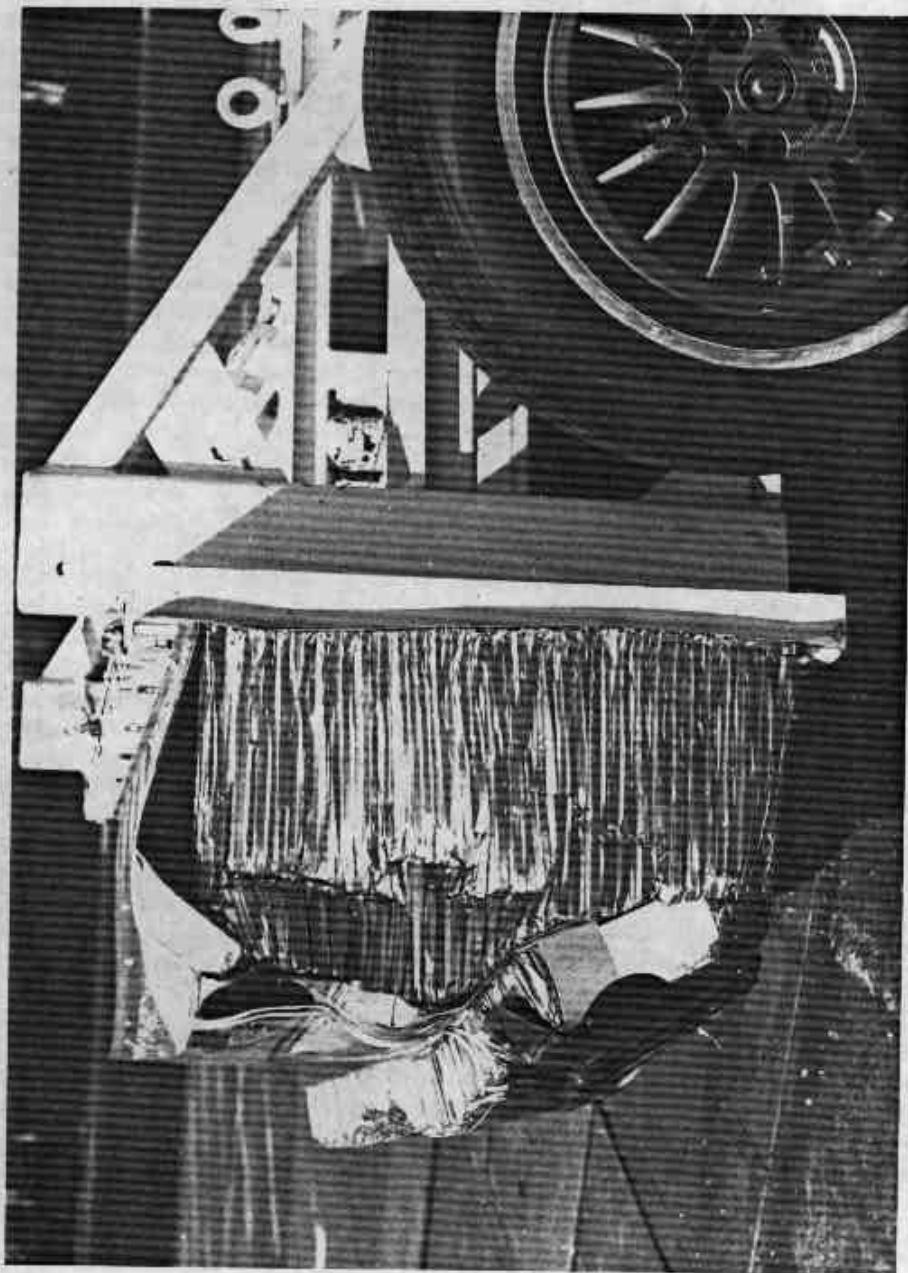


FIGURE A 6 : CRABBED BARRIER POST TEST VIEW

A P P E N D I X B

Vehicle and Dummy Test Response
Acceleration/ - and Velocity/Time
History

B.1 Vehicle Test Response

B.1.1 Target Vehicle

B.1.2 Crabbed Barrier

B.2 Dummy Test Response

B.2.1 Driver

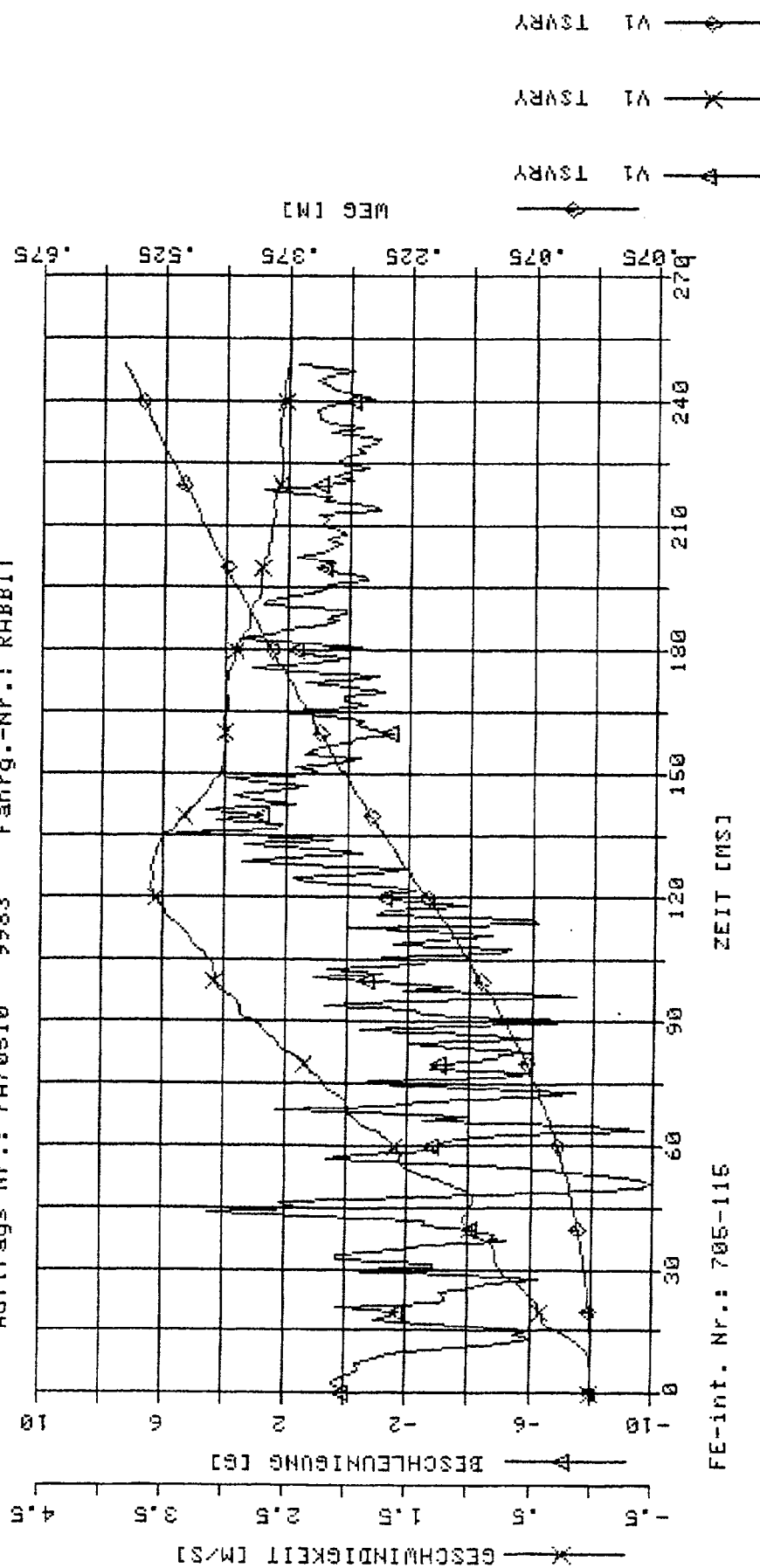
B.2.2 Rear Passenger

B.1.1 Target Vehicle

- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9983

Mess-Stelle	UP	ber.	Groesse	Extremum	r	3MS
TSVRY	V1	BE	g	-9.965	51.00	9.49
TSVRY	V1	GE	m/s	3.607	128.00	0.00
TSVRY	V1	WE	m	.590	255.00	0.00

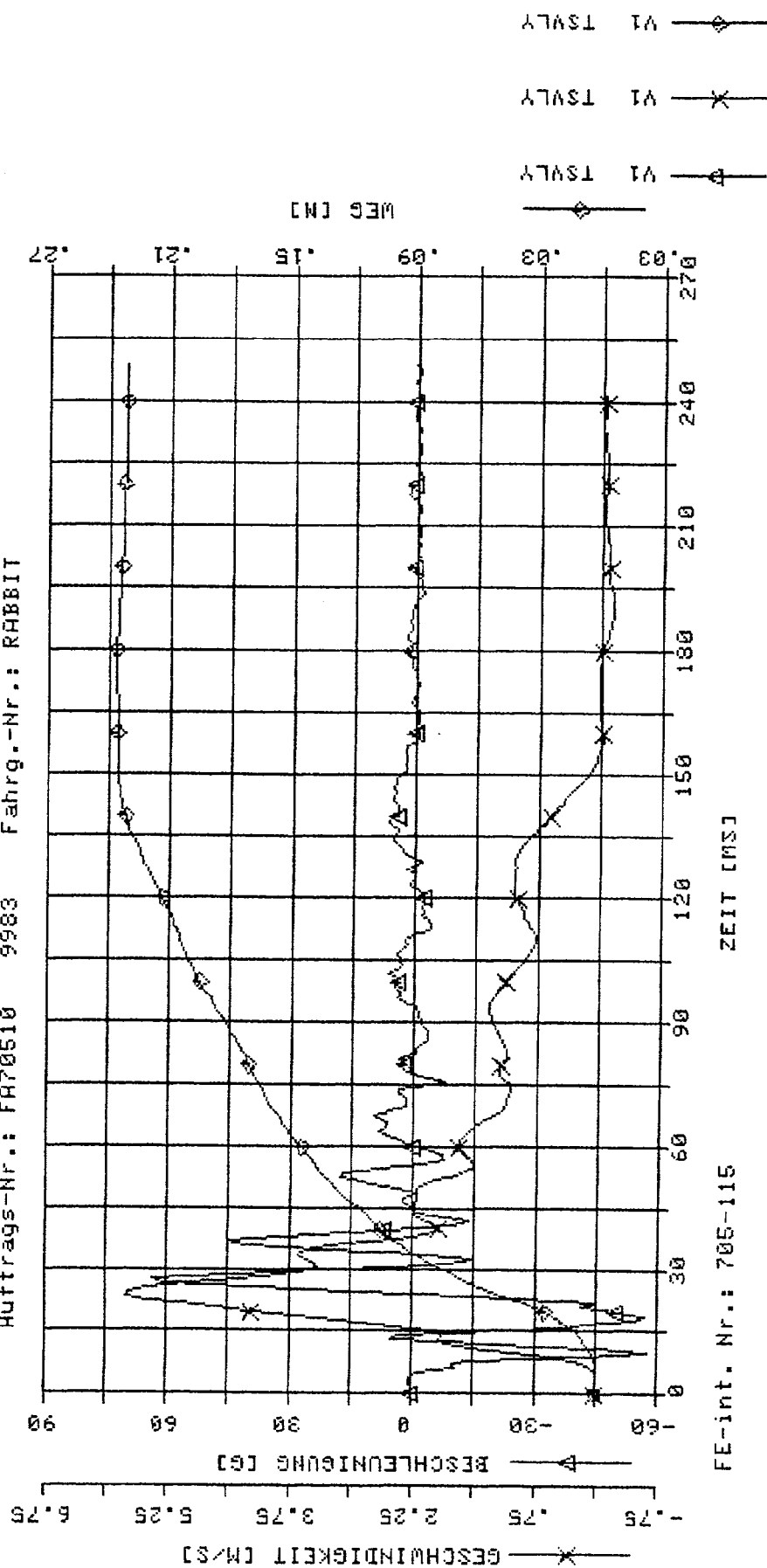
Auftrags-Nr.: FA70510 9983 Fahrg.-Nr.: RABBIT



- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9983

Mess-Stelle	UP	ber.	Extremum	t	Extr.	3MS
TSVLY	V1	BE g	63.816		28.00	57.04
TSVLY	V1	GE m/s	5.738		24.00	0.00
TSVLY	V1	WE m	.236		178.00	0.00

Auftrags-Nr.: FA70510 9983 Fahrg.-Nr.: RABBIT

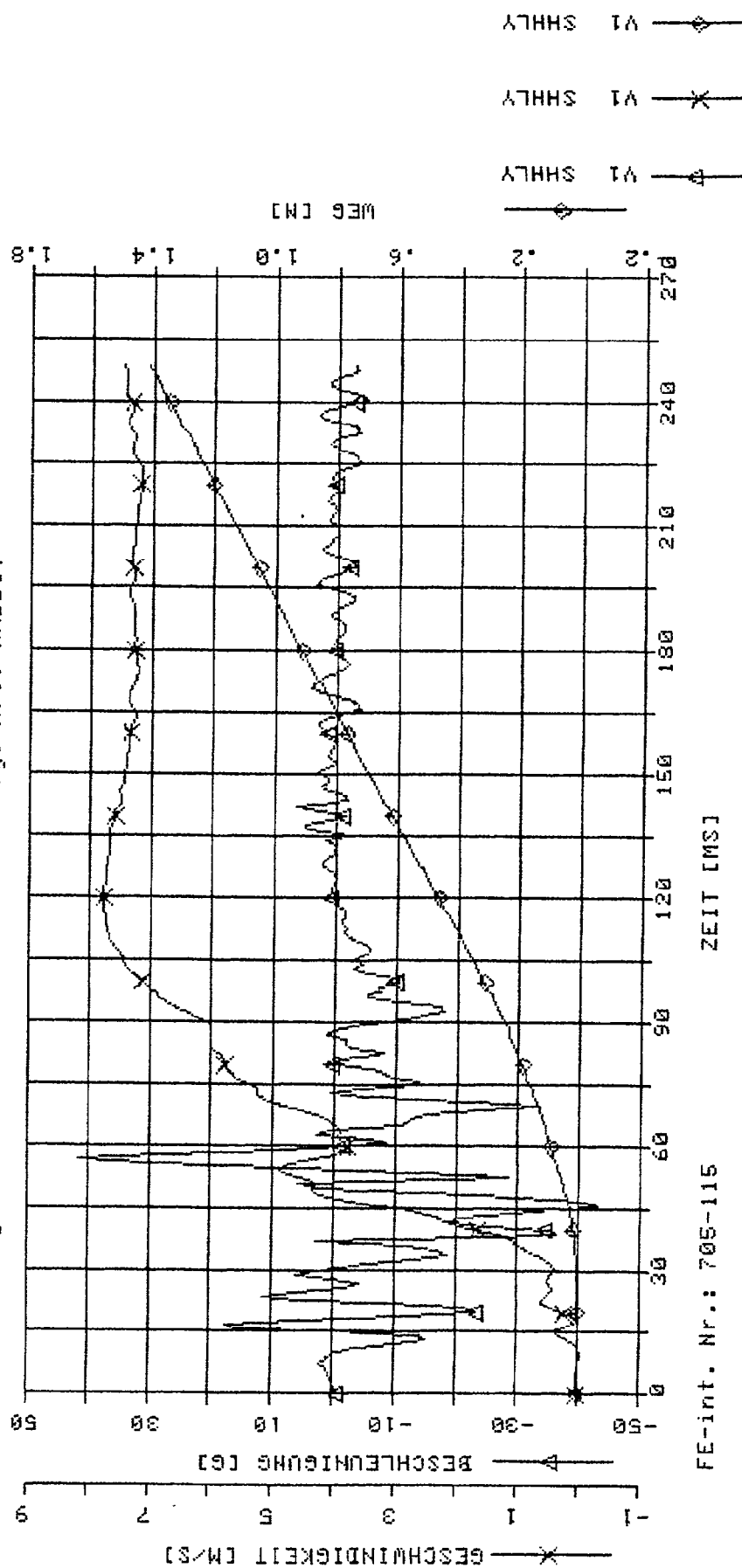


FE-int. Nr.: 705-115

- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9983

Mess-Stelle	UP	ber.	Extremum	t	3MS
SHHLY		Groesse		Extr.	
SHHLY	V1	BE g	-43.369	46.00	36.51
SHHLY	V1	GE m/s	7.775	118.00	0.00
SHHLY	V1	WE m	1.457	255.00	0.00

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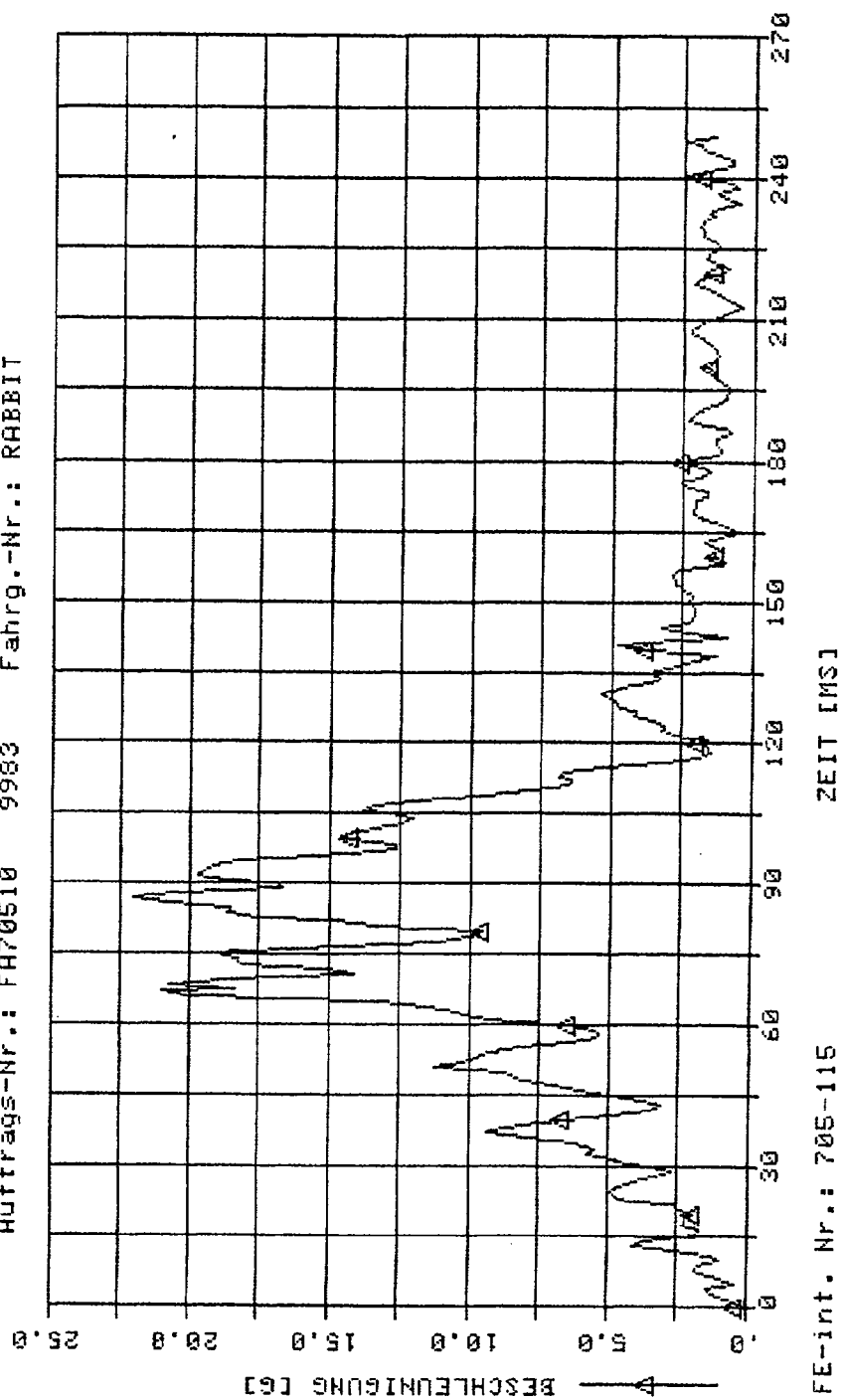


FE-int. Nr.: 705-115

- Kennwerte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9983

Mess-Stelle UP ber. Extremum t 3MS
KOB0 V1 BE g 22.057 87.00 20.65

Auftrags-Nr.: FA70510 9983 Fahrg.-Nr.: RABBIT



VI KOB0X Y Z

- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9983

Mess-Stelle

UP ber. Extremum t 3MS

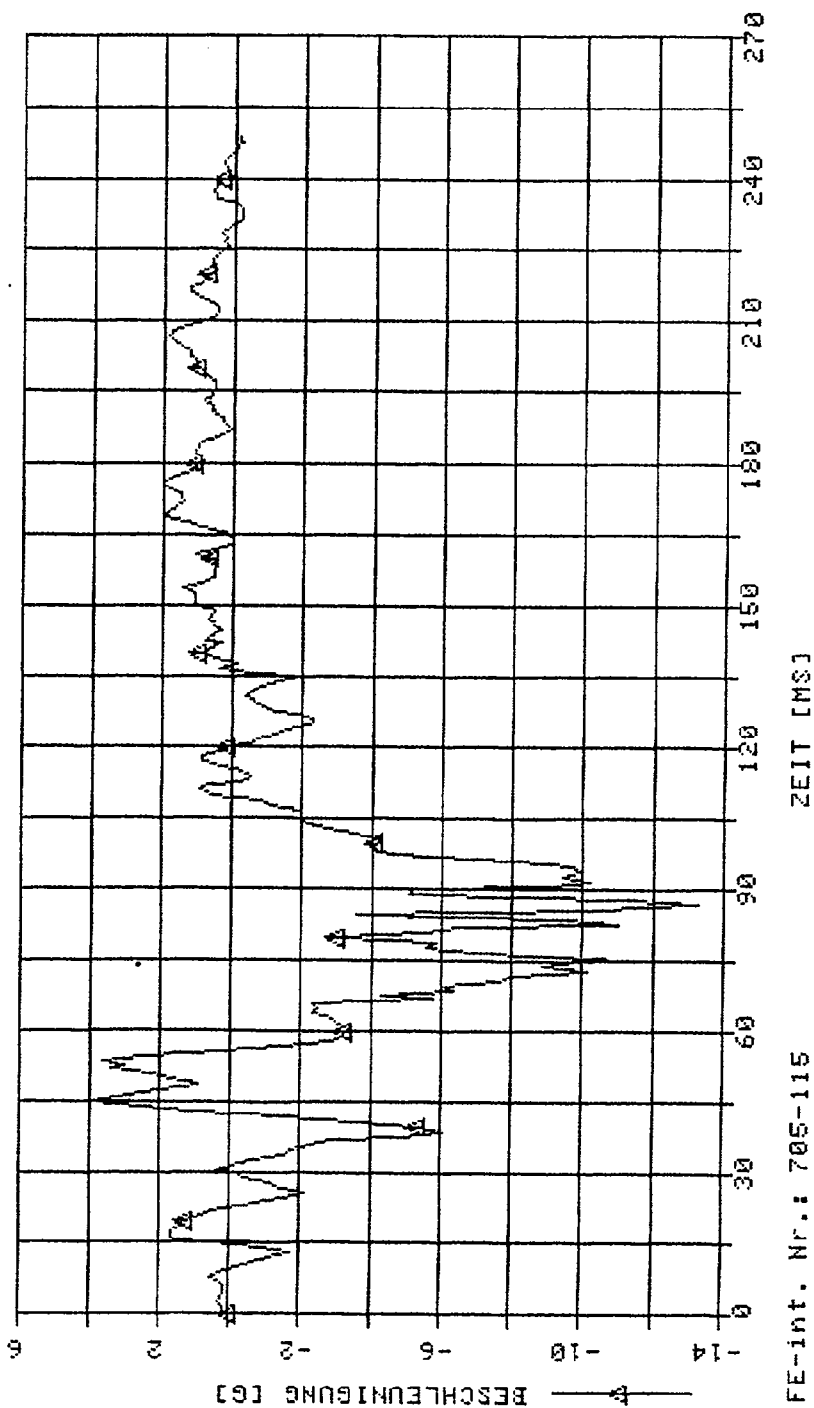
Groesse

Extr. 87.00

KOBEX

V1 BE 9 -13.286 10.65

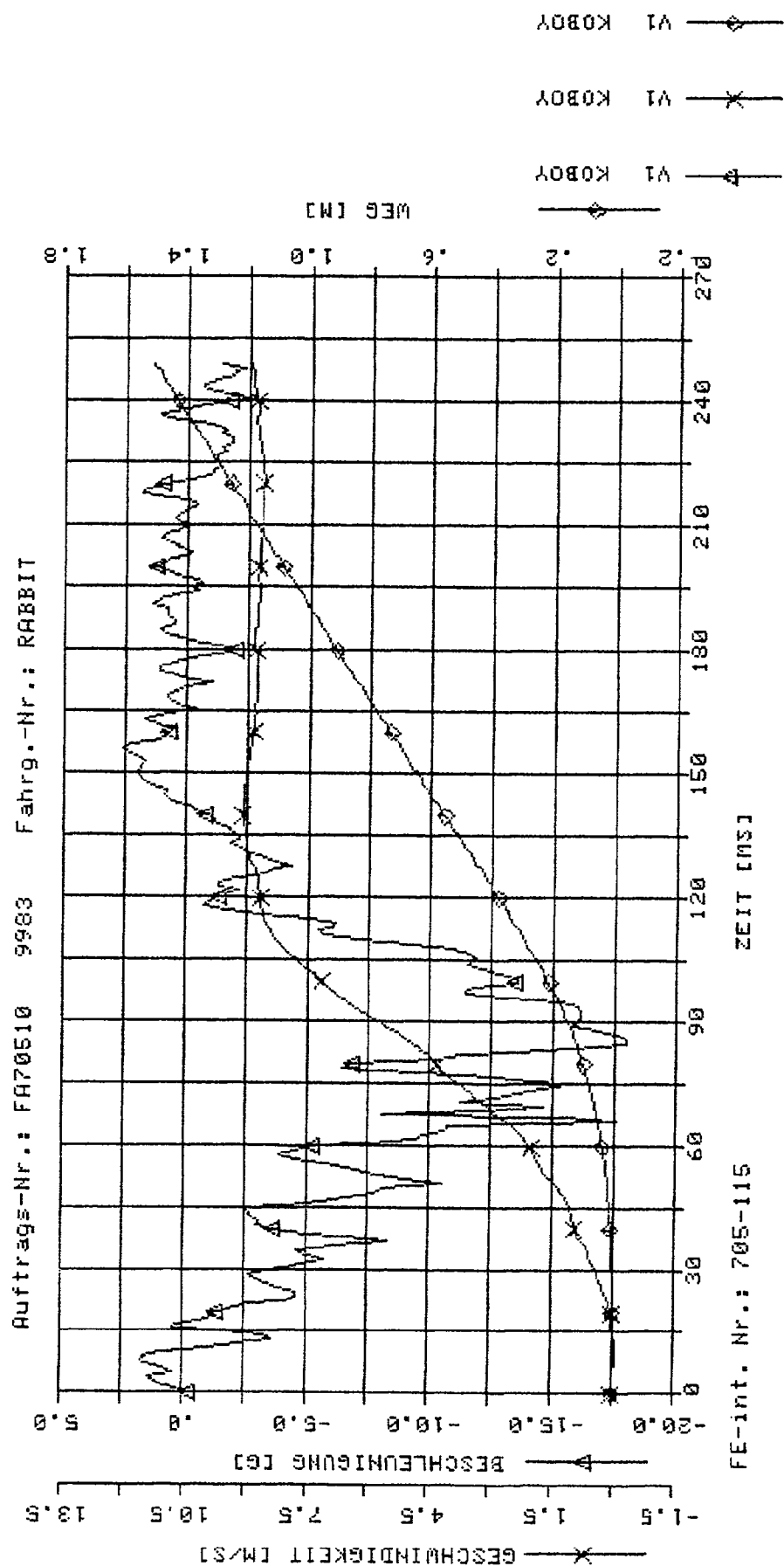
Auftrags-Nr.: FA70510 9983 Fahrg.-Nr.: RABBIT



V1 KOBEX

Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9983

Mess-Stelle	UP	ber.	Groesse	Extremum	t	3MS
KOBY	V1	BE	g	-17.967	86.00	16.81
KOBY	V1	GE	m/s	9.105	142.00	0.00
KOBY	V1	WE	m	1.565	255.00	0.00



- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9983

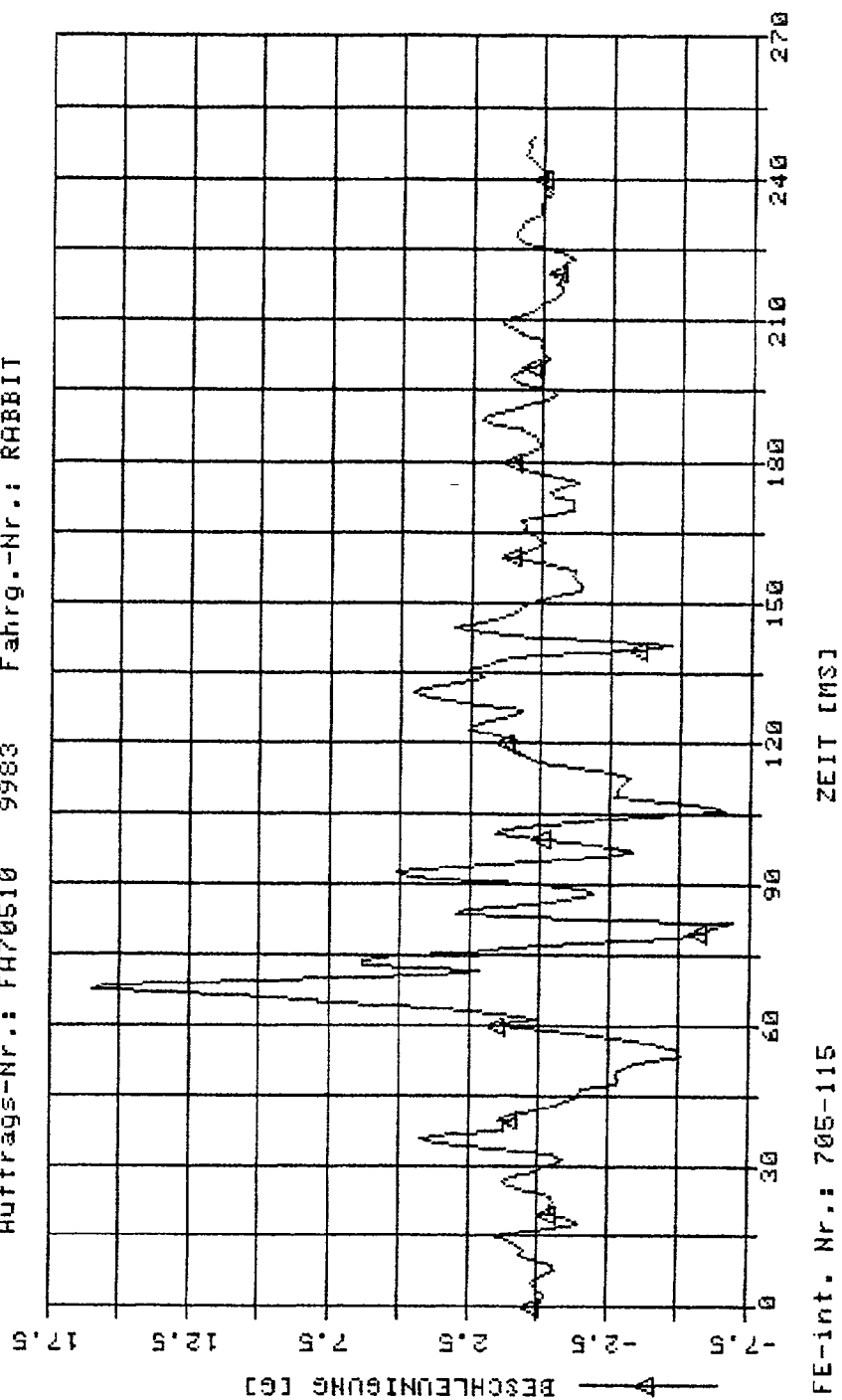
Mess-Stelle

UP ber. Extremum t 3MS

Groesse Extr.

KOB0Z V1 BE g 15.956 68.00 10.01

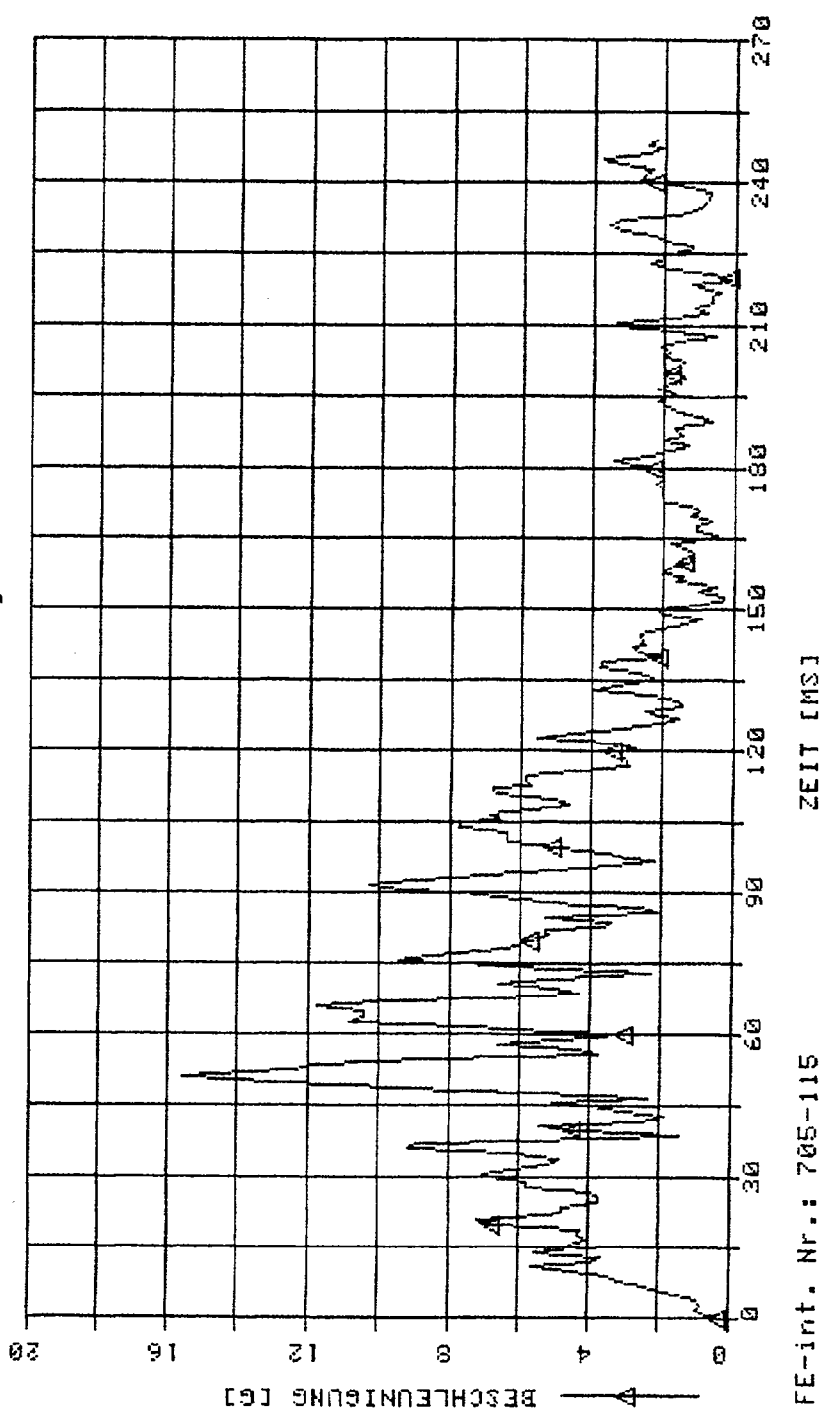
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- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9983

Mess-Stelle UP ber. Extremum t 3MS
SWMI V1 BE g Groesse Extr. 51.00 12.40

Auftrags-Nr.: FA70510 9983 Fahrg.-Nr.: RABBIT



FE-int. Nr.: 705-115

4 V1 SUMIX Y Z

- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9983

Mess-Stelle

UP ber. Extremum t 3MS

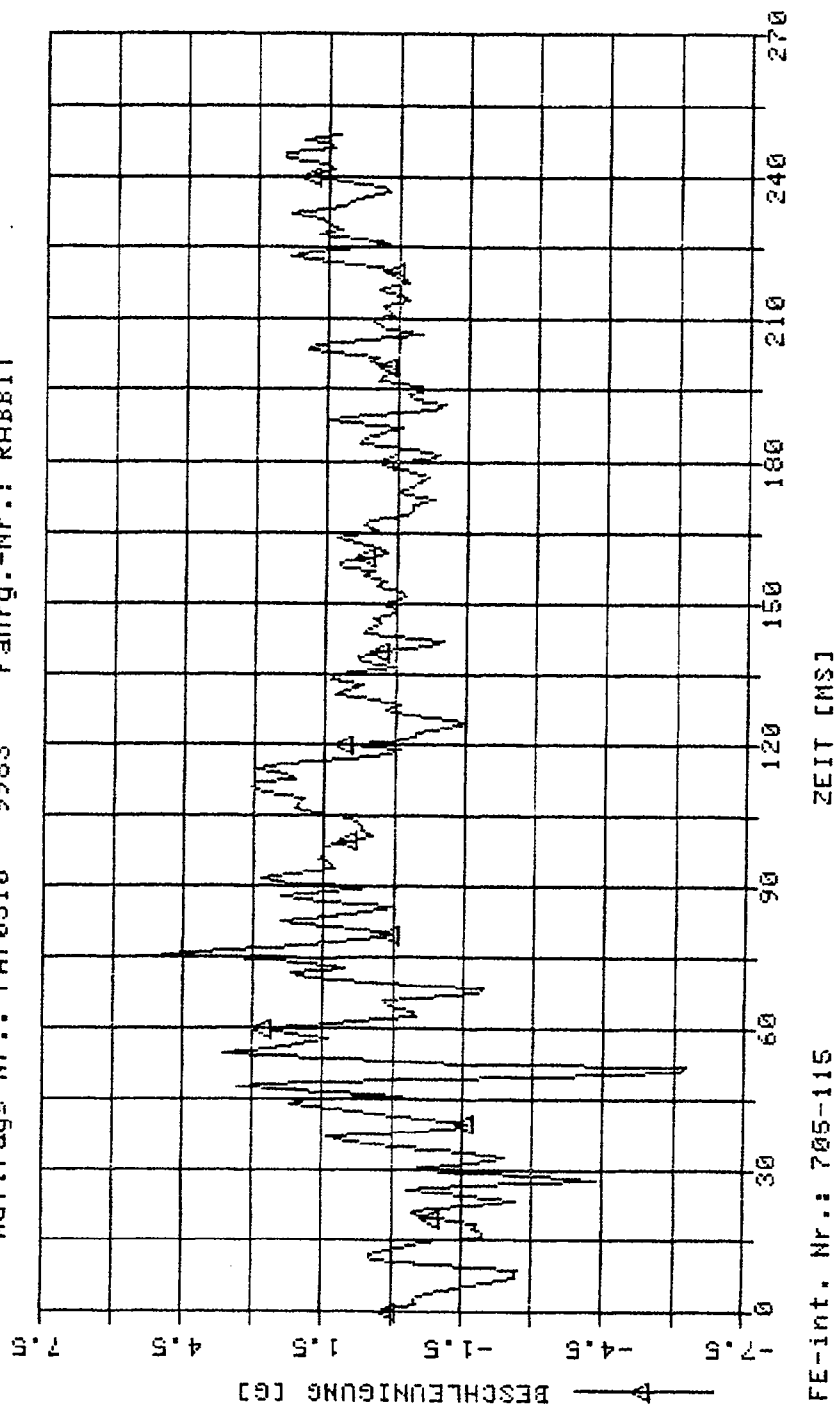
Groesse

V1 BE 9 -6.275 52.00

SWMIX

4.36

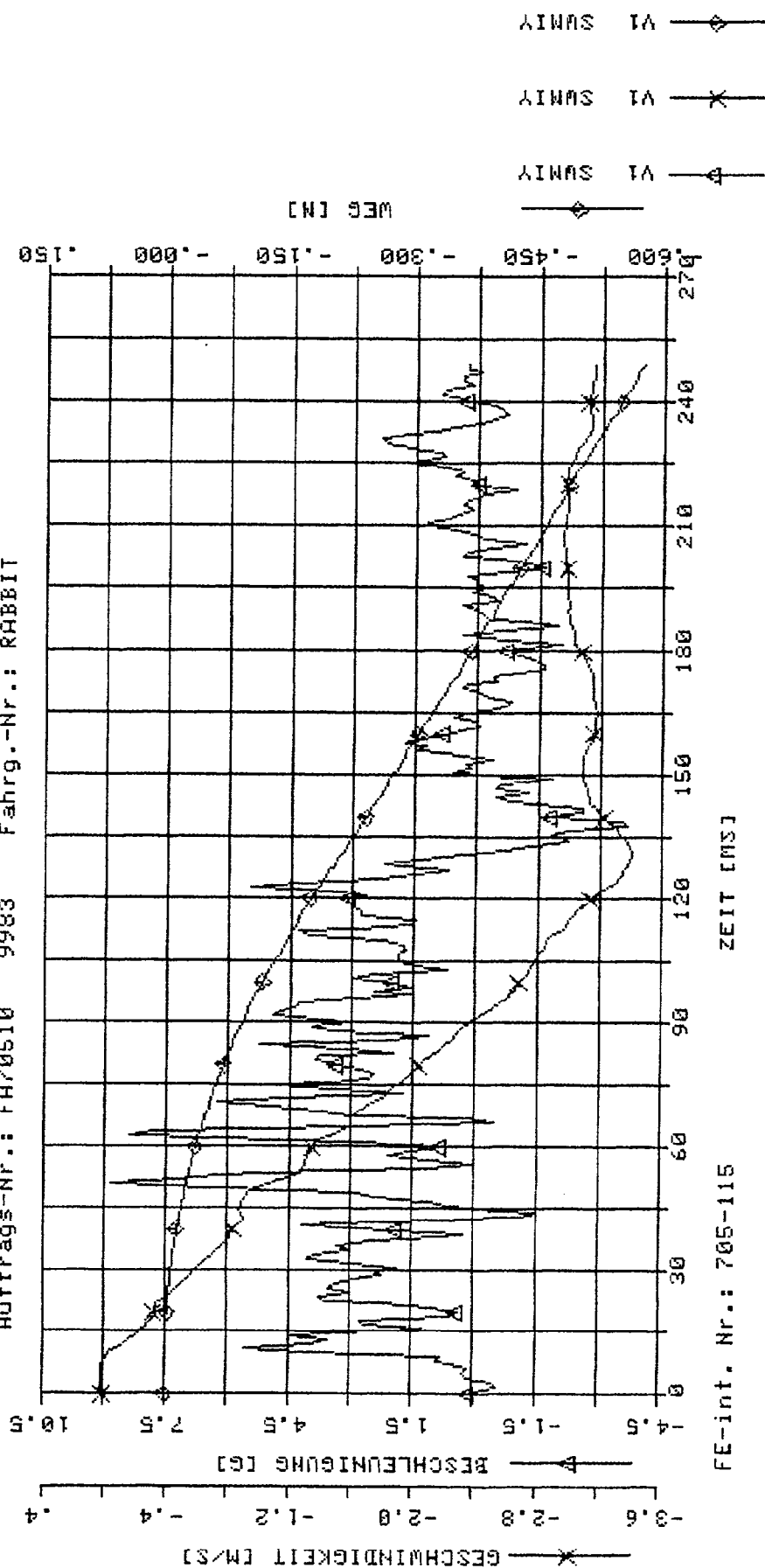
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Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9983

Mess-Stelle	UP	ber.	Extremum	t	3MS
SWMIY	V1	BE g	8.845	51.00	7.10
SWMIY	V1	GE m/s	-3.403	131.00	0.00
SWMIY	V1	WE m	-.594	255.00	0.00

Auftrags-Nr.: FA70510 9983 Fahrg.-Nr.: RABBIT



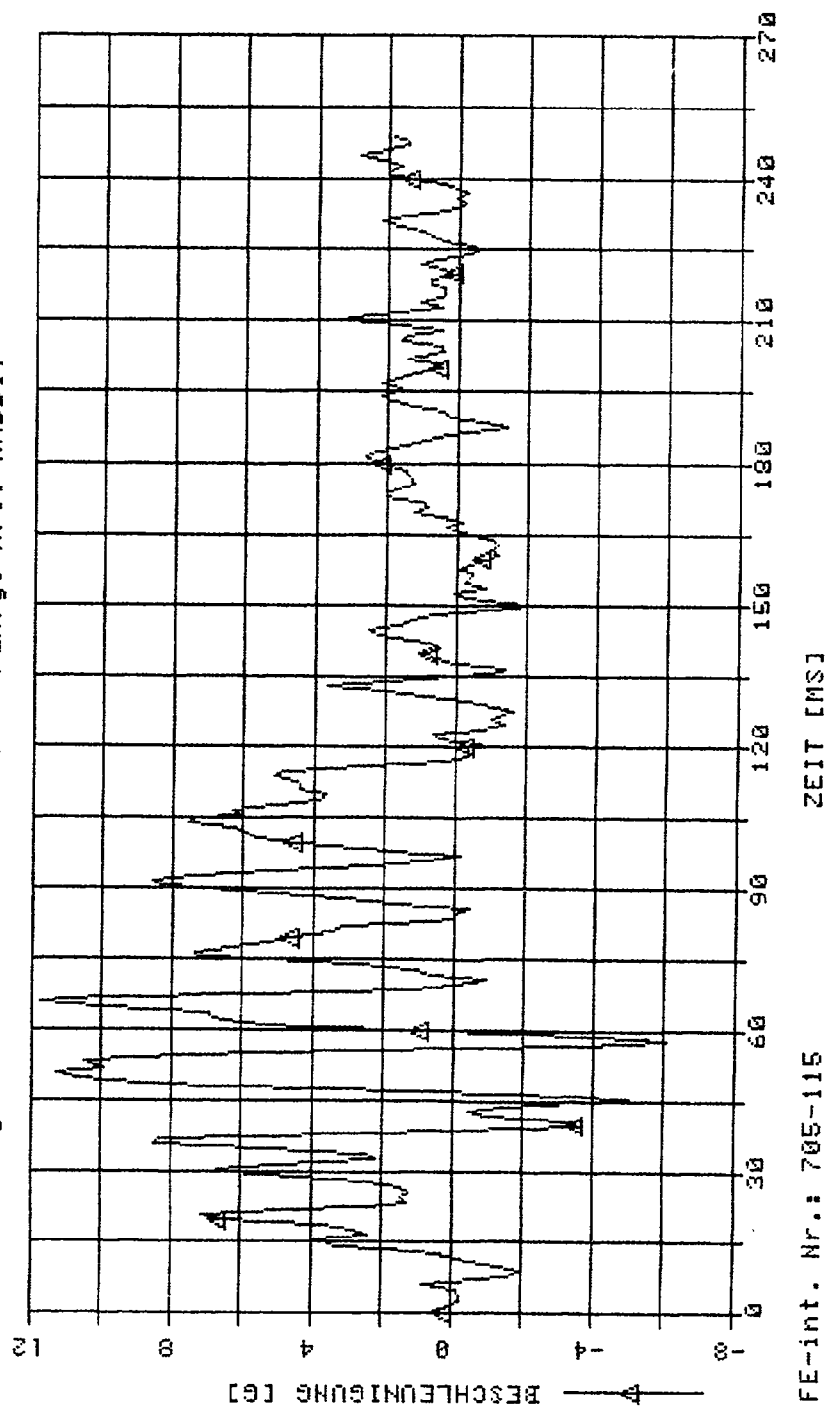
- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9983

Mess-Stelle

UP	ber.	Extremum	t	3MS
V1	BE g	11.782	Extr.	66.00
				10.46

SWMIZ

Auftrags-Nr.: FA70510 9983 Fahrg.-Nr.: RABBIT

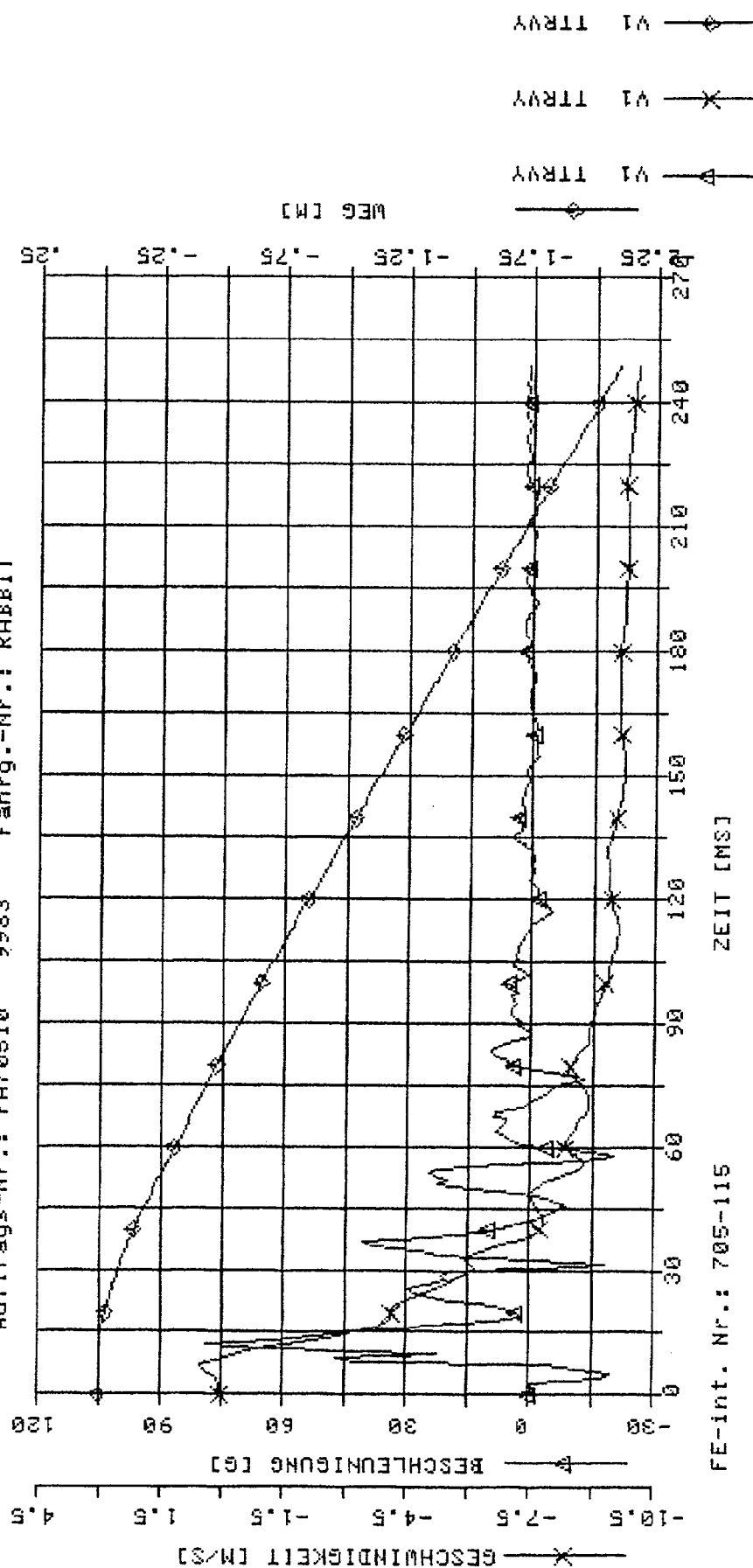


ZIMMS 1A

- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9983

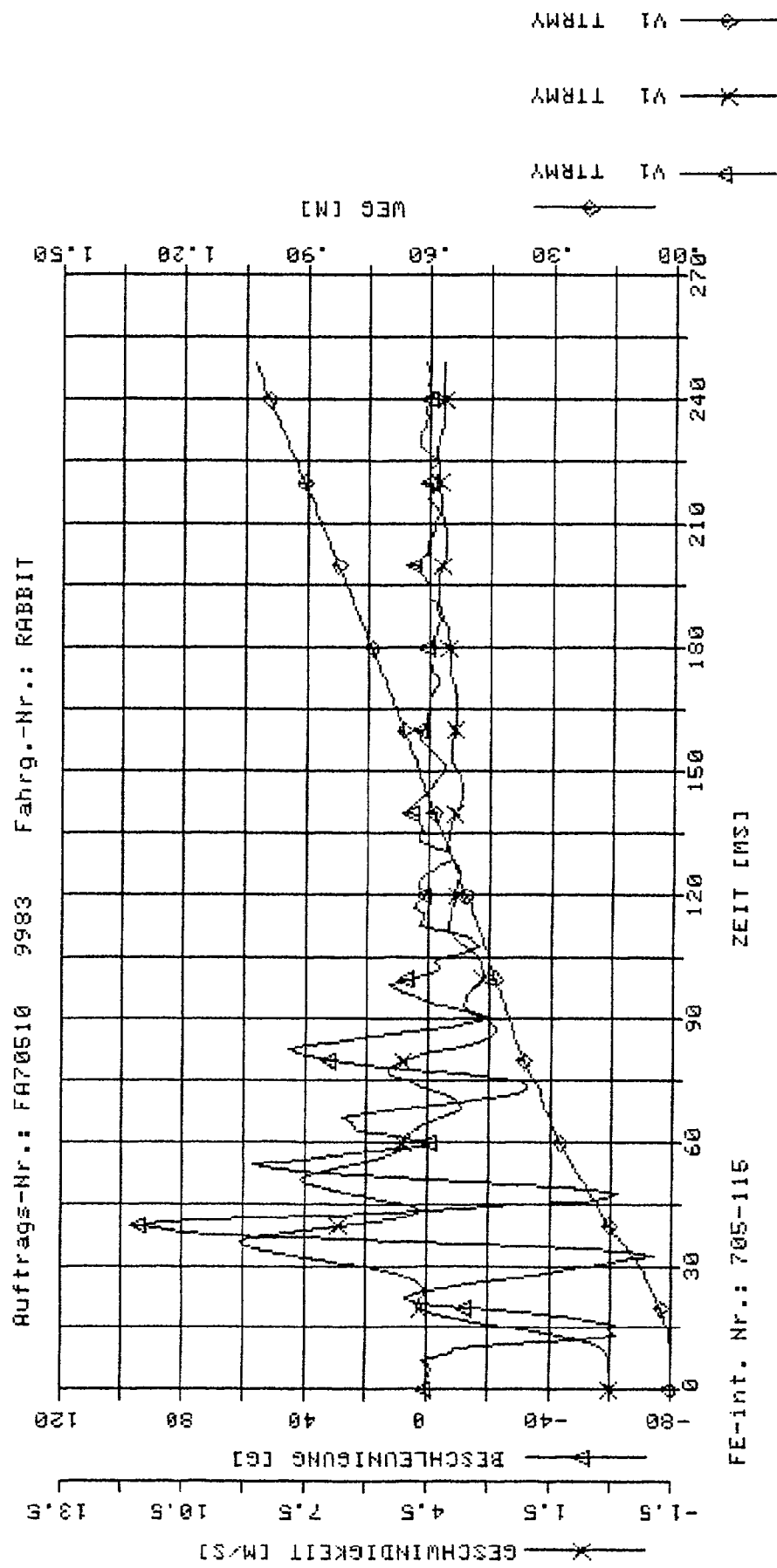
Mess-Stelle	UP	ber.	Extremum	t	3MS
TTRVY	V1	BE g	78.819	12.00	51.97
TTRVY	V1	GE m/s	-10.108	255.00	0.00
TTRVY	V1	WE m	-2.162	255.00	0.00

Auftrags-Nr.: FA70510 9983 Fahrg.-Nr.: RABBIT



- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9983

Mess-Stelle	UP	ber.	Groesse	Extremum	t	3MS
TTRMY	V1	BE	g	93.254	40.00	74.26
TTRMY	V1	GE	m/s	9.091	36.00	0.00
TTRMY	V1	WE	m	1.053	255.00	0.00

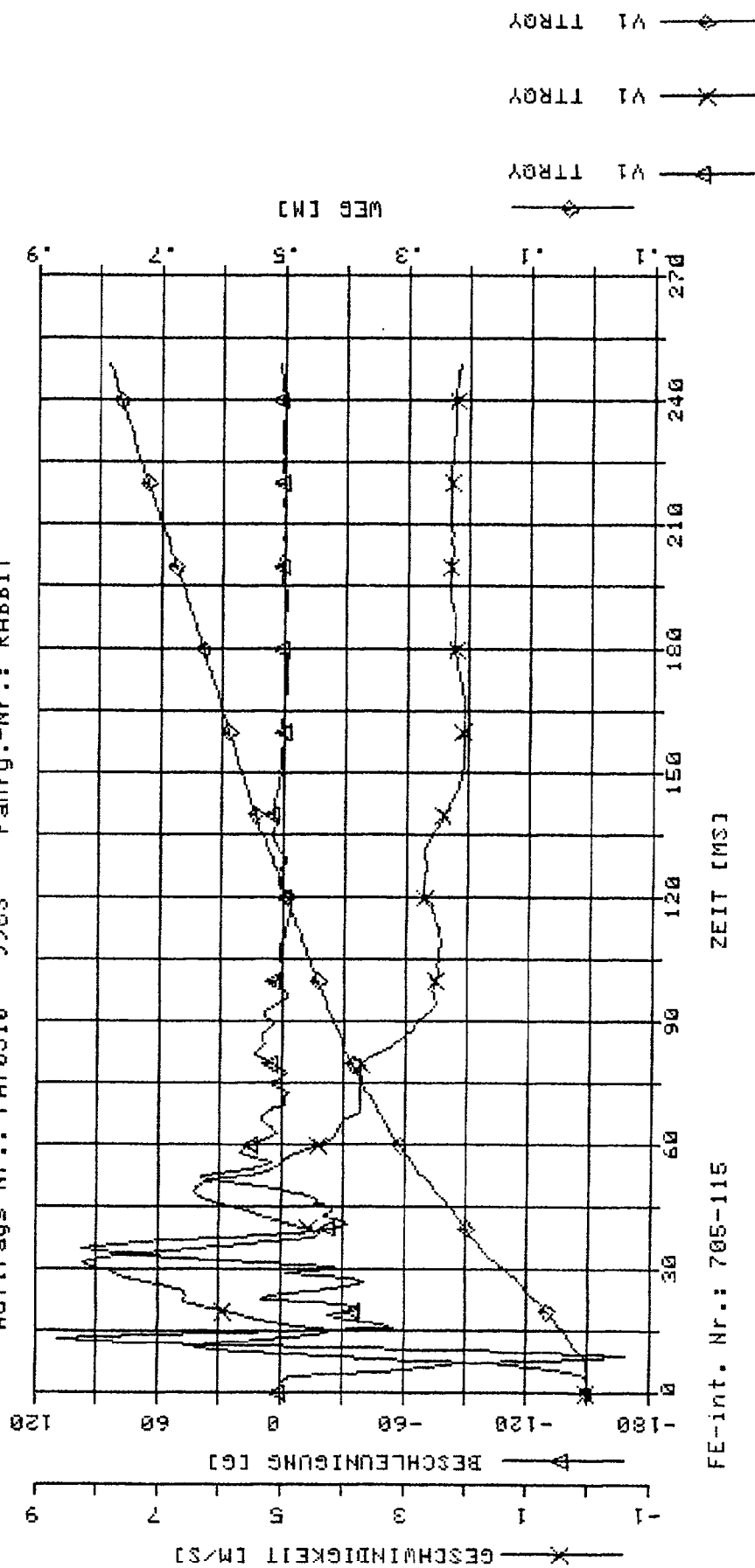


FE-int. Nr.: 705-115

- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9983

Mess-Stelle	UP	ber.	Groesse	Extremum	t	Extr.
TTRQY	V1	BE	g	-168.329	9.00	108.72
TTRQY	V1	GE	m/s	8.186	32.00	0.00
TTRQY	V1	WE	m	.796	255.00	0.00

Auftrags-Nr.: FA70510 9983 Fahrg.-Nr.: RABBIT

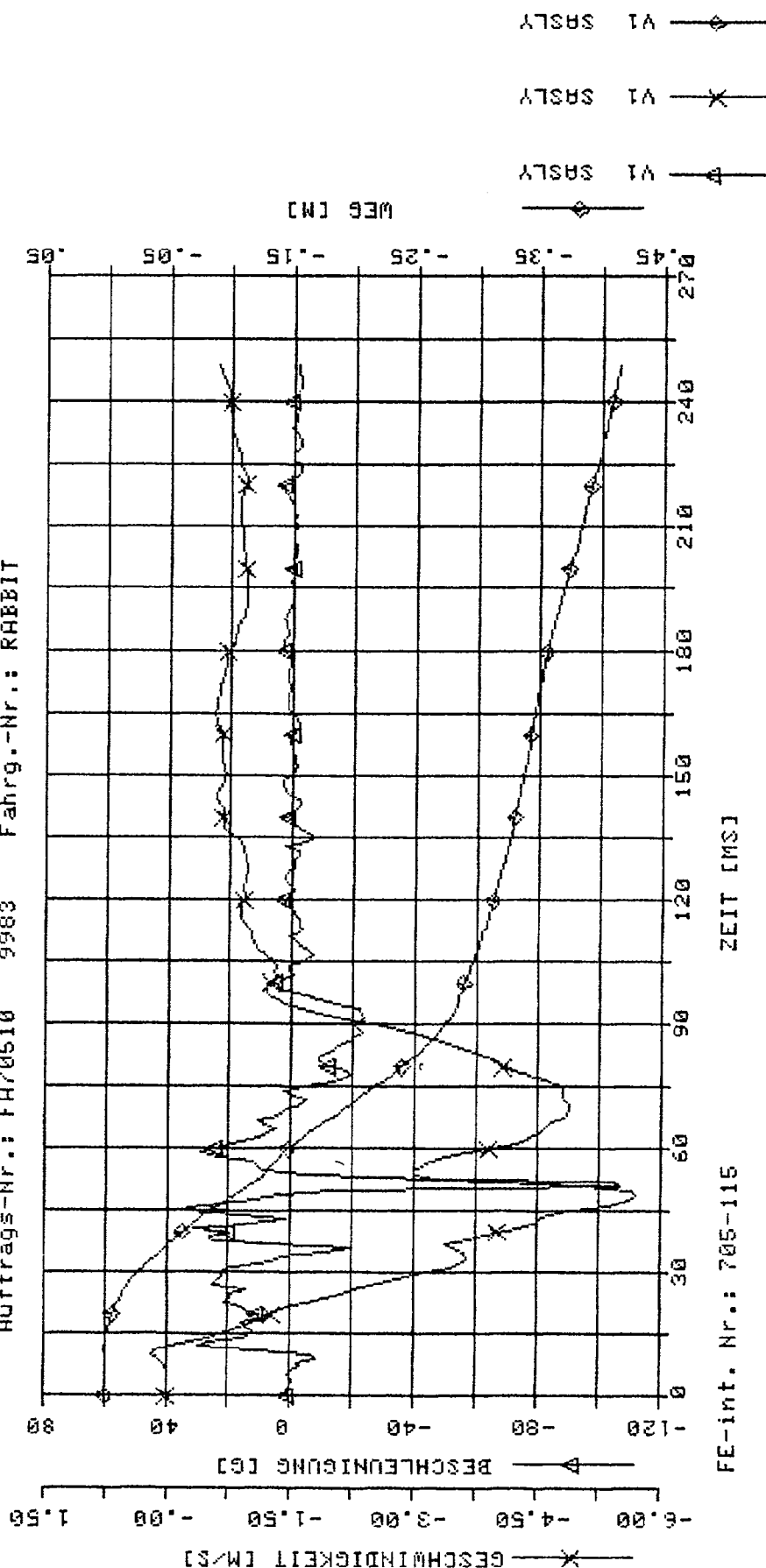


FE-int. Nr.: 705-115

- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9983

Mess-Stelle	UP	ber.	Extremum	t	3MS
SASLY	V1	Grösse			
SASLY	V1	BE g	-107.702	51.00	34.09
SASLY	V1	GE m/s	-5.705	49.00	0.00
SASLY	V1	WE m	-.417	255.00	0.00

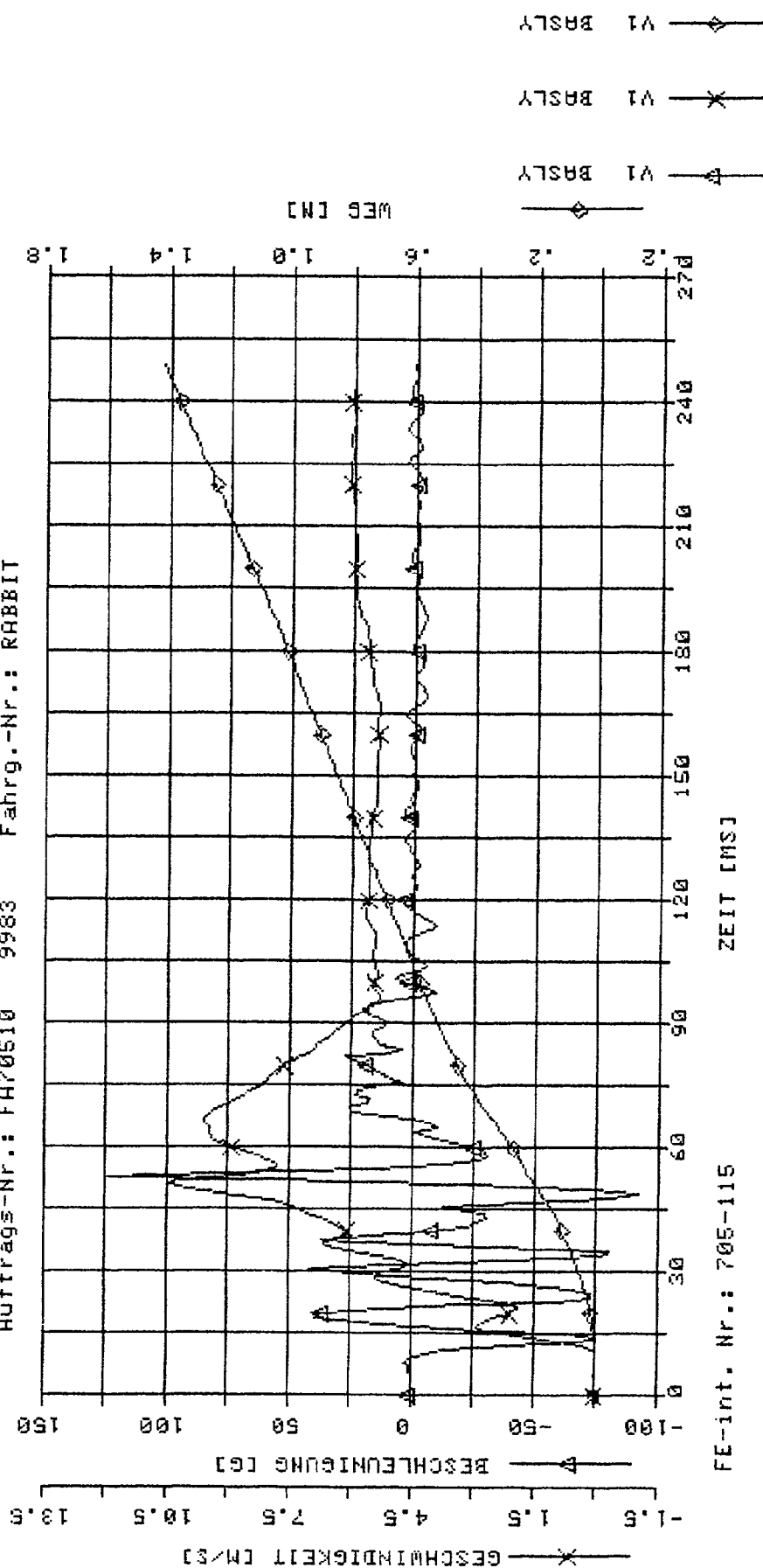
Auftrags-Nr.: FA70510 9983 Fahrg.-Nr.: RABBIT



- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9983

Mess-Stelle	UP	ber.	Grösse	Extremum	t	3MS
BASLY	V1	BE	g	124.714	53.00	79.34
BASLY	V1	GE	m/s	10.435	51.00	0.00
BASLY	V1	WE	m	1.457	255.00	0.00

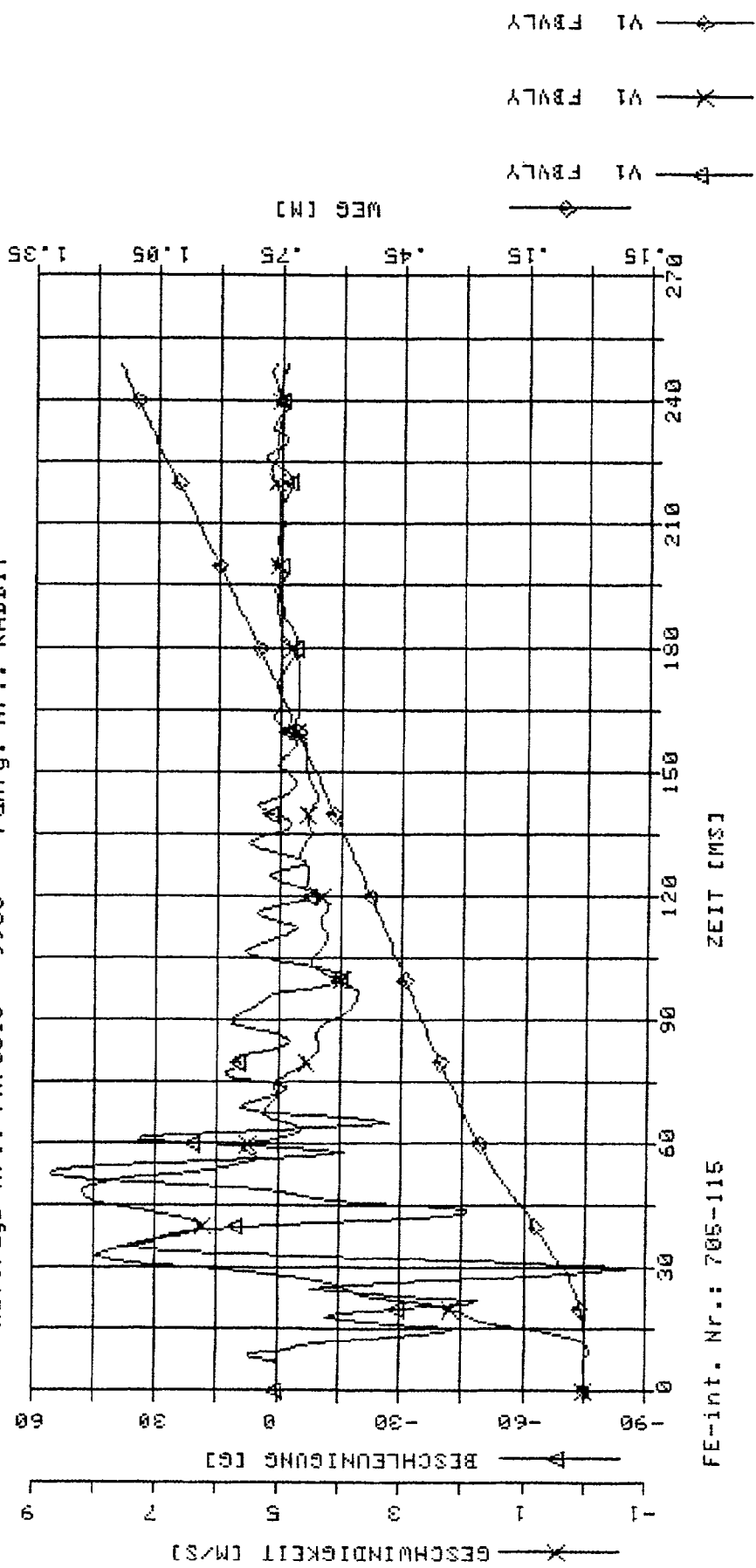
Auftrags-Nr.: FA70510 9983 Fahrg.-Nr.: RABBIT



- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9983

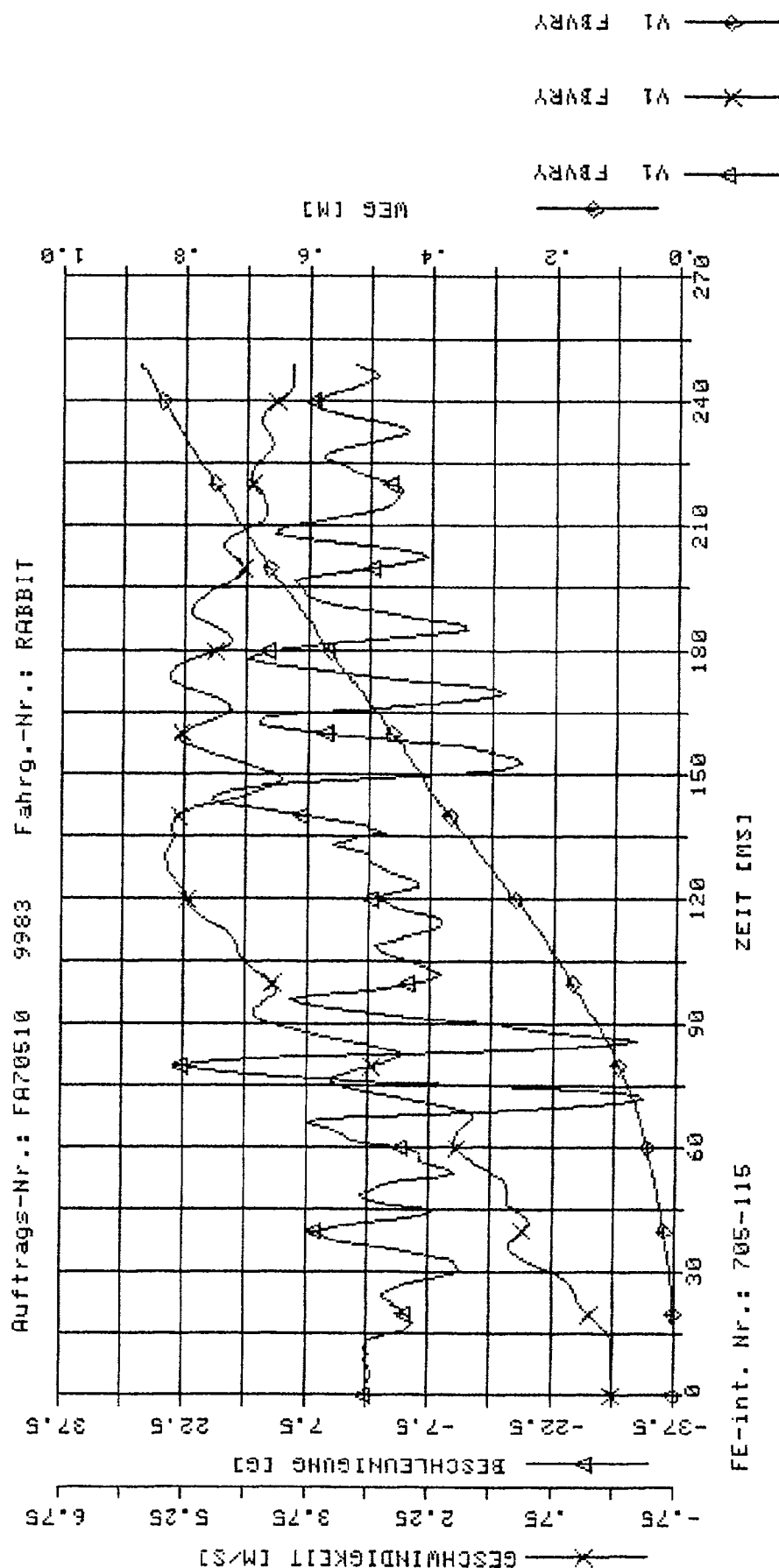
Mess-Stelle	UP	ber.	Grösse	Extremum	t
FBVLY	V1	BE	g	-88.450	30.00
FBVLY	V1	GE	m/s	8.151	49.00
FBVLY	V1	WE	m	1.175	255.00
					0.00

Auftrags-Nr.: FA70510 9983 Fahrg.-Nr.: RABBIT



- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9983

Mess-Stelle	UP	ber.	Grösse	Extremum	t	3MS
FBURY	V1	BE	g	-33.480	72.00	30.70
FBURY	V1	GE	m/s	5.471	131.00	0.00
FBURY	V1	WE	m	.896	255.00	0.00

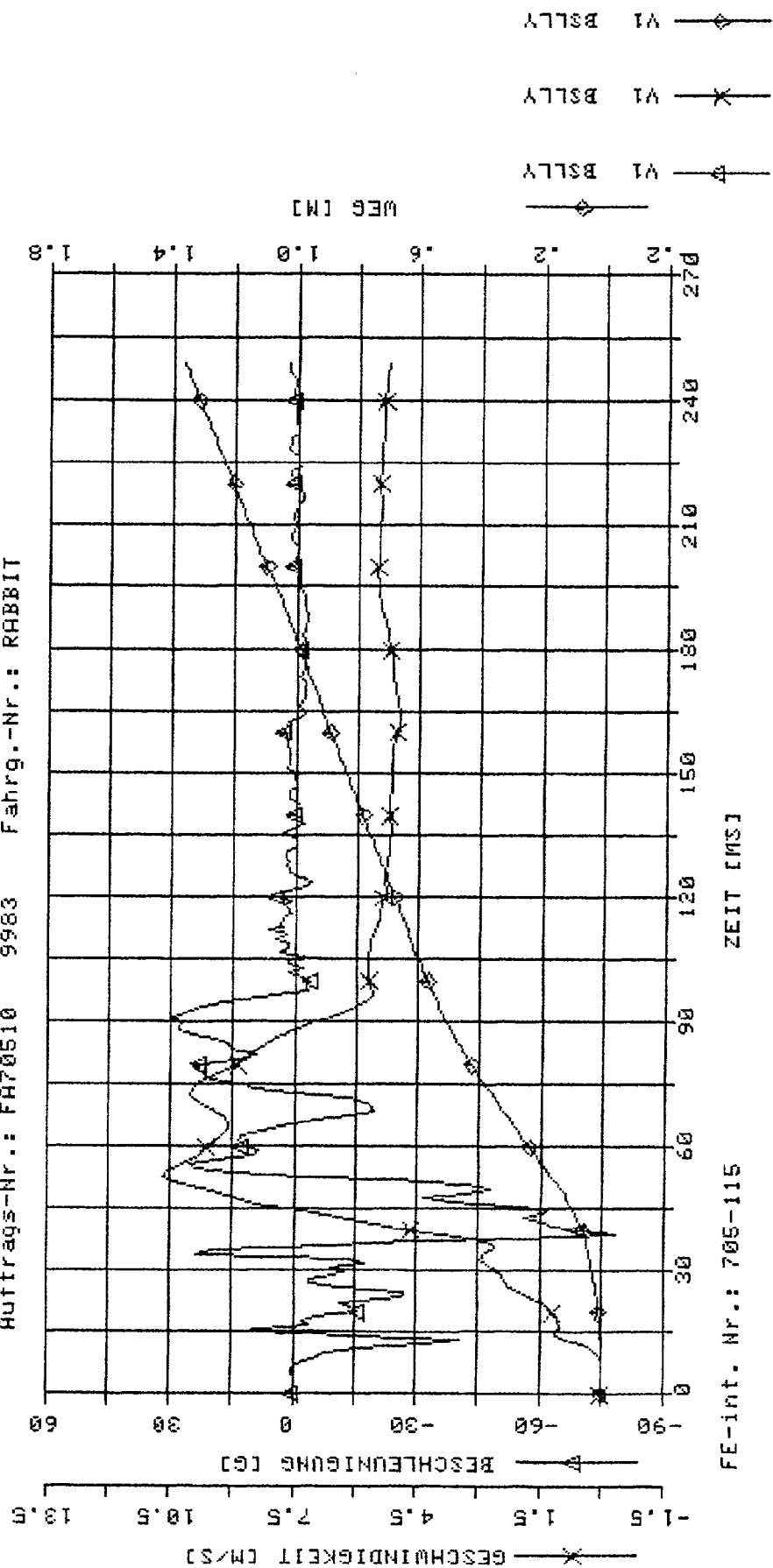


FE-int. Nr.: 705-115

- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9983

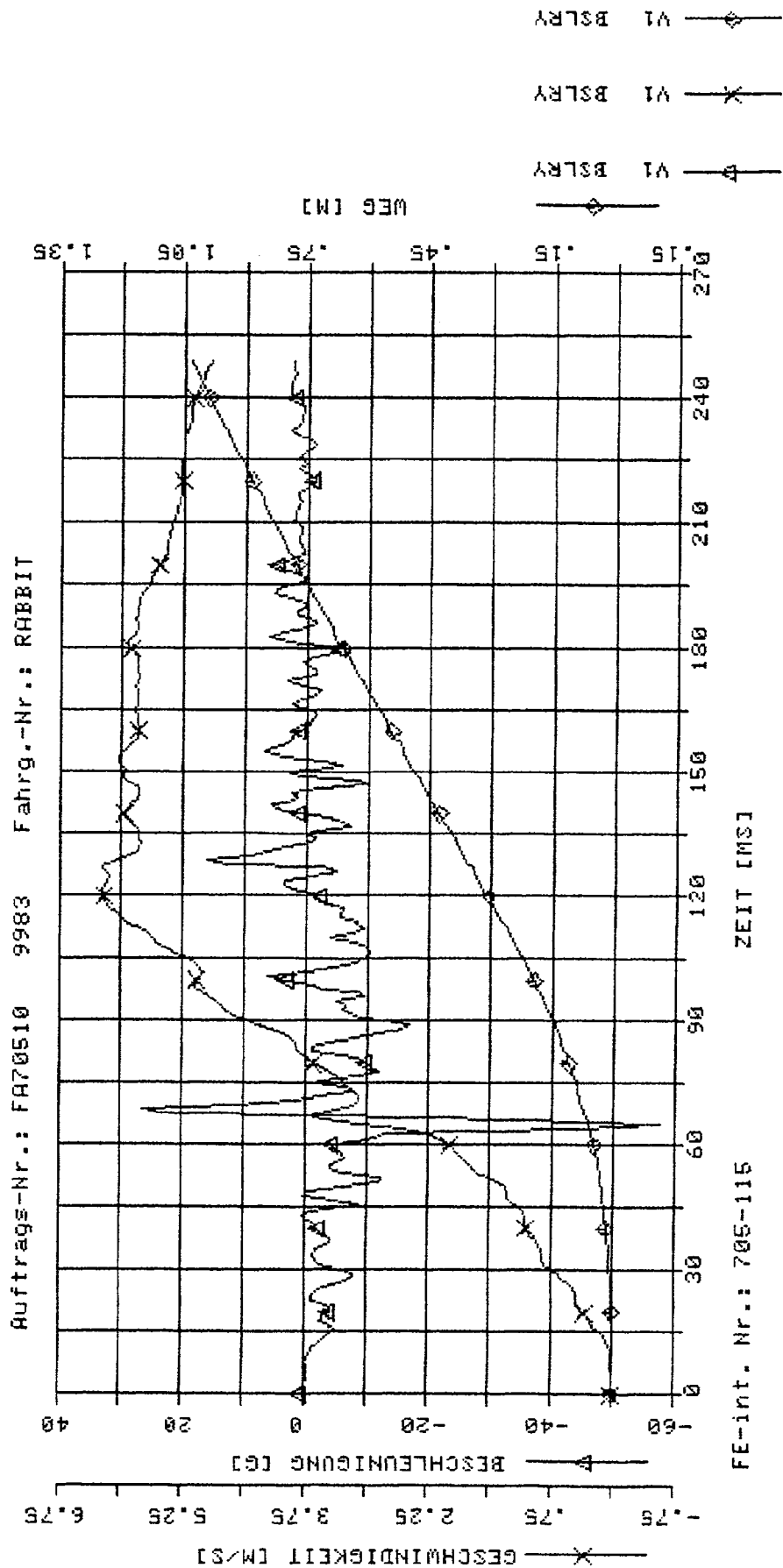
Mess-Stelle	UP	ber.	Extremum	t	3MS
BSLLY	V1	BE g	-78.328	39.00	61.81
BSLLY	V1	GE m/s	10.646	53.00	0.00
BSLLY	V1	WE m	1.392	255.00	0.00

Auftrags-Nr.: FA70510 9983 Fahrg.-Nr.: RABBIT



- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9983

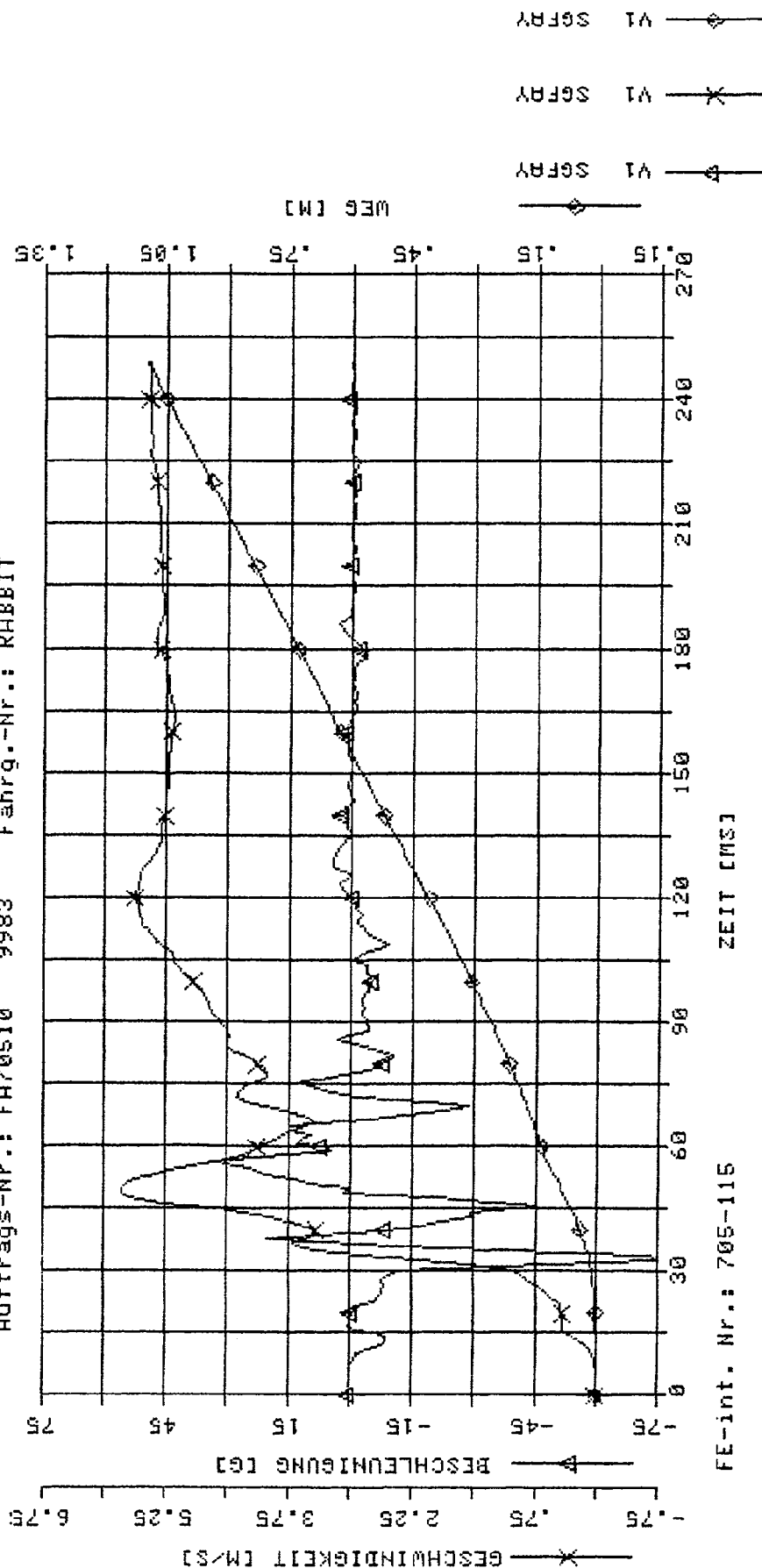
Mess-Stelle	UP	ber.	Groesse	Extremum	t	3MS
BSLRY	V1	BE	g	-57.566	65.00	26.37
BSLRY	V1	CE	m/s	6.219	121.00	0.00
BSLRY	V1	WE	m	1.061	255.00	0.00



- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9983

Mess-Stelle	UP	ber.	Groesse	Extremum	t	3MS
SGFAY	V1	BE	g	-74.563	33.00	45.32
SGFAY	V1	GE	m/s	5.786	49.00	0.00
SGFAY	V1	WE	m	4.131	255.00	0.00

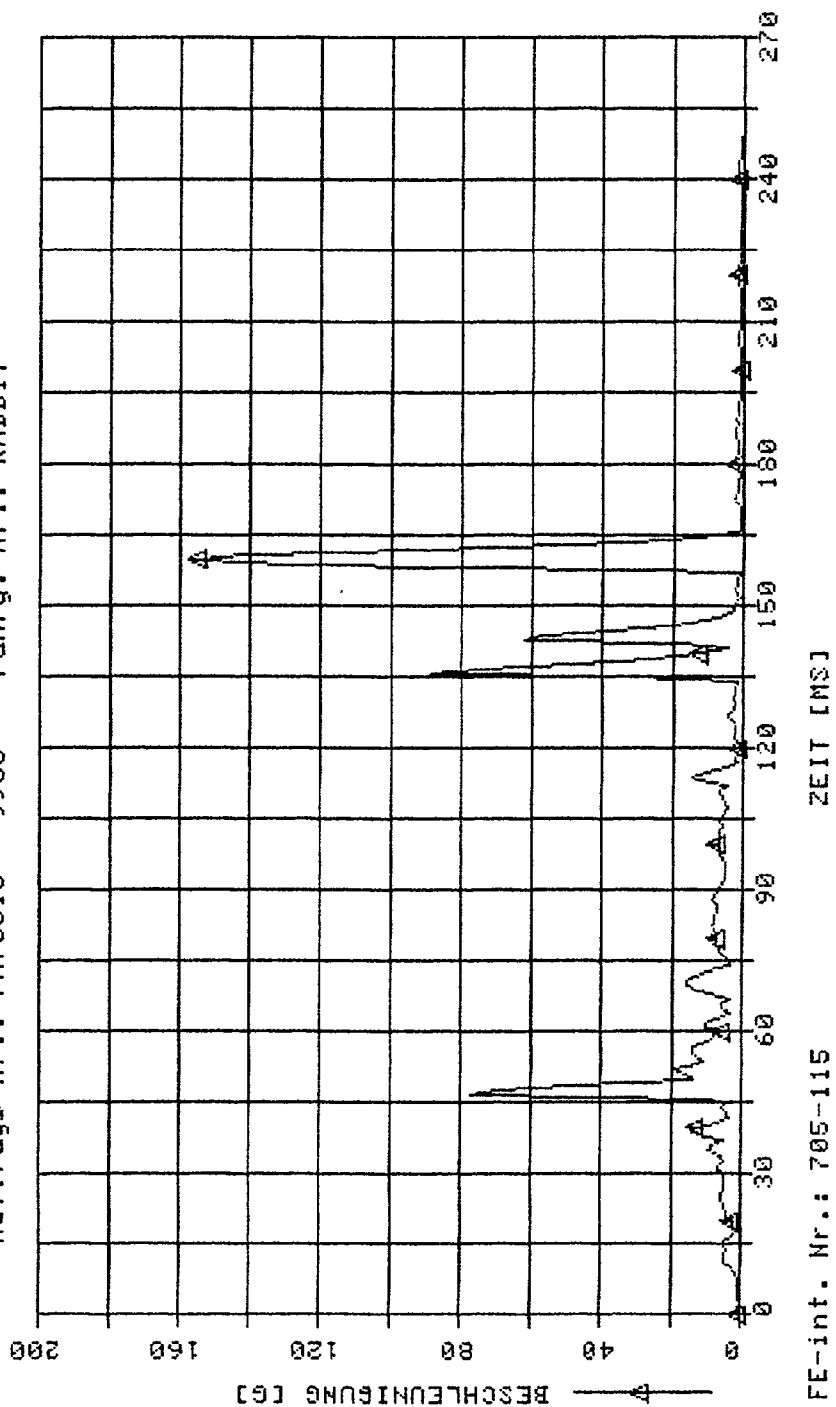
Auftrags-Nr.: FA70510 9983 Fahrg.-Nr.: RABBIT



- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9983

Mess-Stelle	UP	ber.	Extremum	t	3MS
RTMI	V1	BE	Groesse	Extr.	
		g	154.467	160.00	91.23

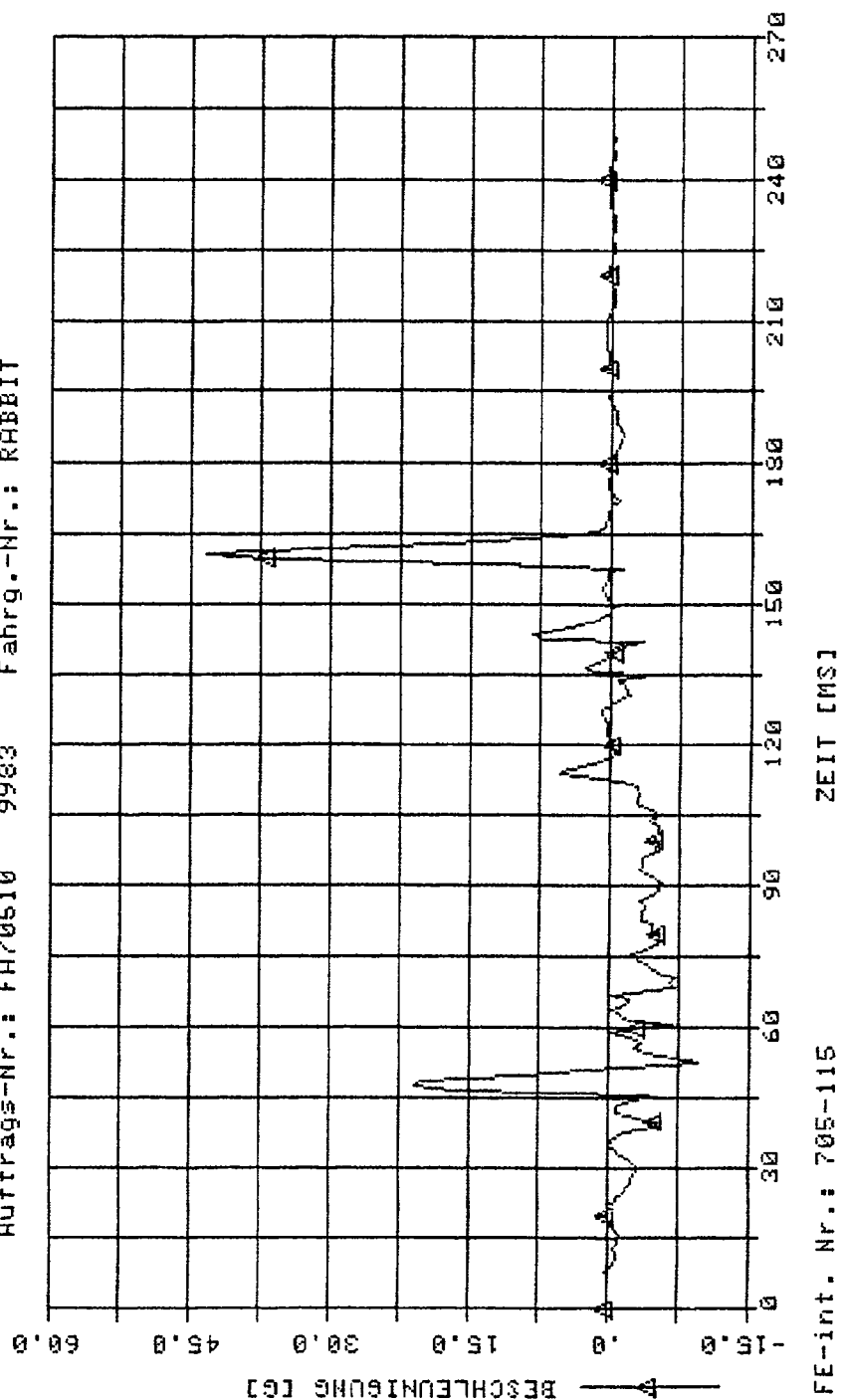
Auftrags-Nr.: FA70510 9983 Fahrg.-Nr.: RABBIT



V1 RTMI X 2

- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9983
 Mess-Stelle UP ber. Extremum t 3MS
 RTMIX V1 BE g 43.437 161.00 20.79

Auftrags-Nr.: FA70510 9983 Fahrg.-Nr.: RABBIT

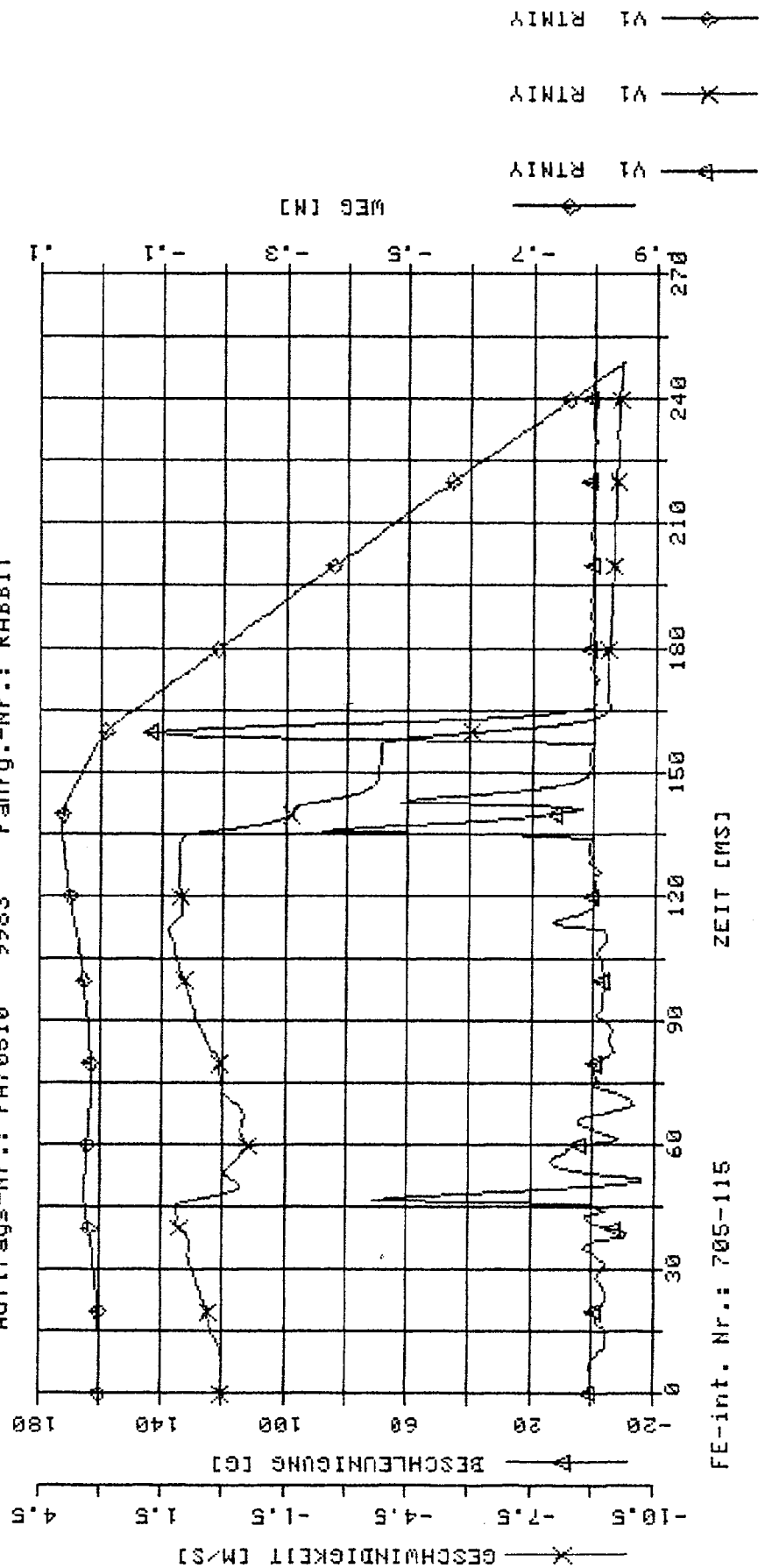


V1 RTMIX
 ▲

- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9983

Mess-Stelle	UP	ber.	Grösse	Extremum	t	3MS
RTMIY	V1	BE	g	143.031	160.00	87.87
RTMIY	V1	GE	m/s	-9.680	255.00	0.00
RTMIY	V1	WE	m	-1.906	255.00	0.00

Auftrags-Nr.: FA70510 9983 Fahrg.-Nr.: RABBIT



- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9983

Mess-Stelle

UP ber.

Extremum

t

3MS

RTMIZ

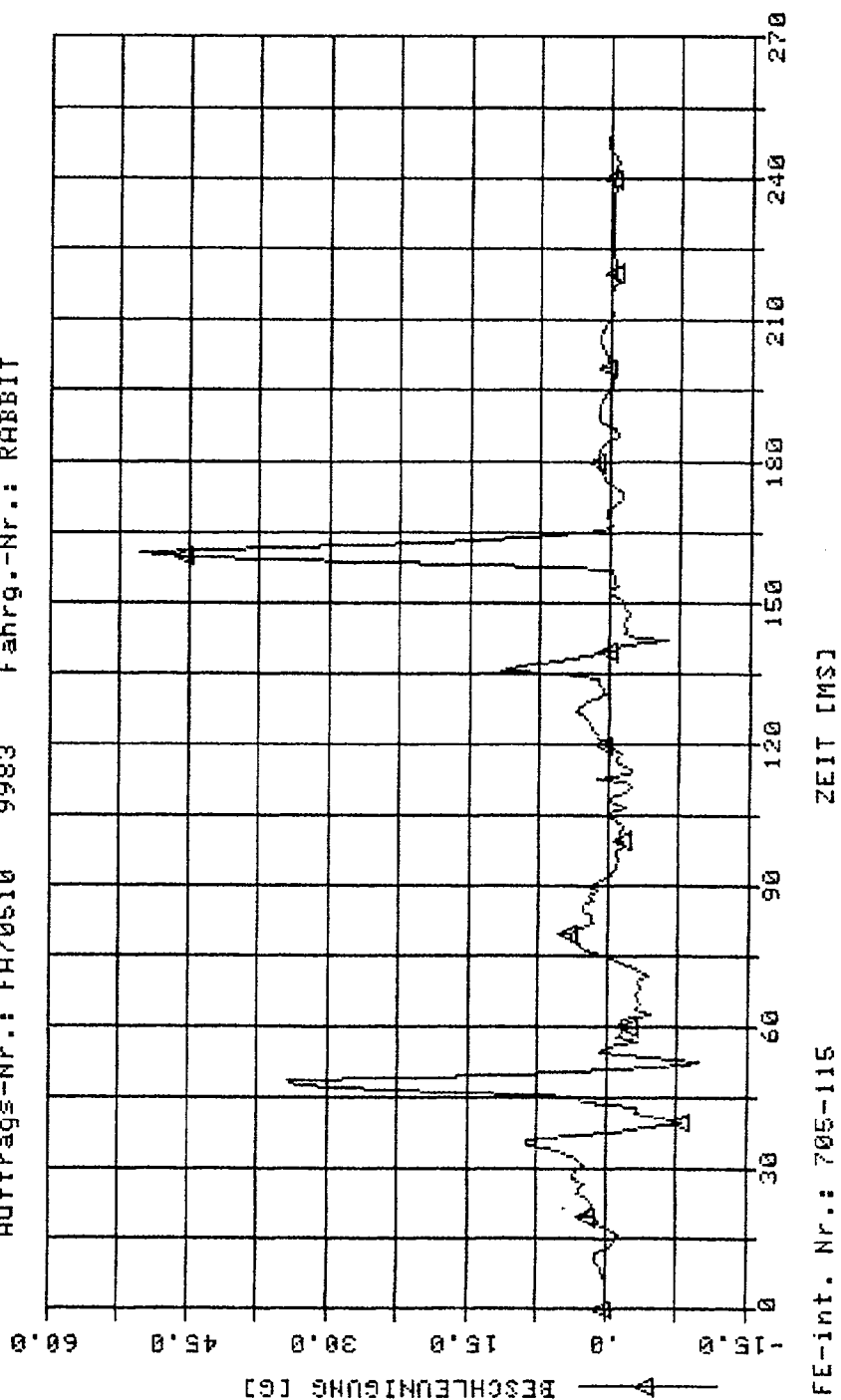
V1 BE g

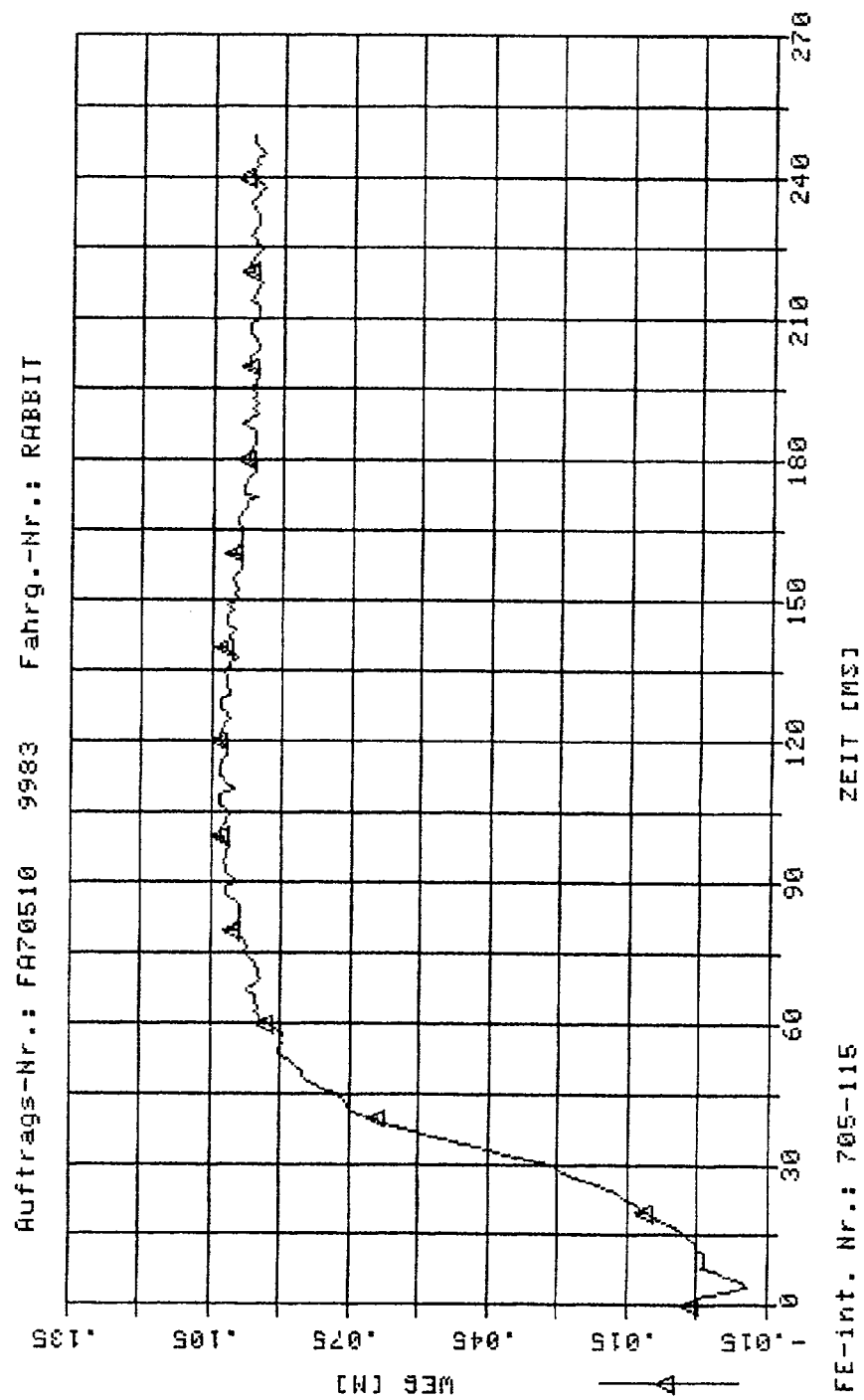
Groesse
50.391

Extr.
161.00

34.09

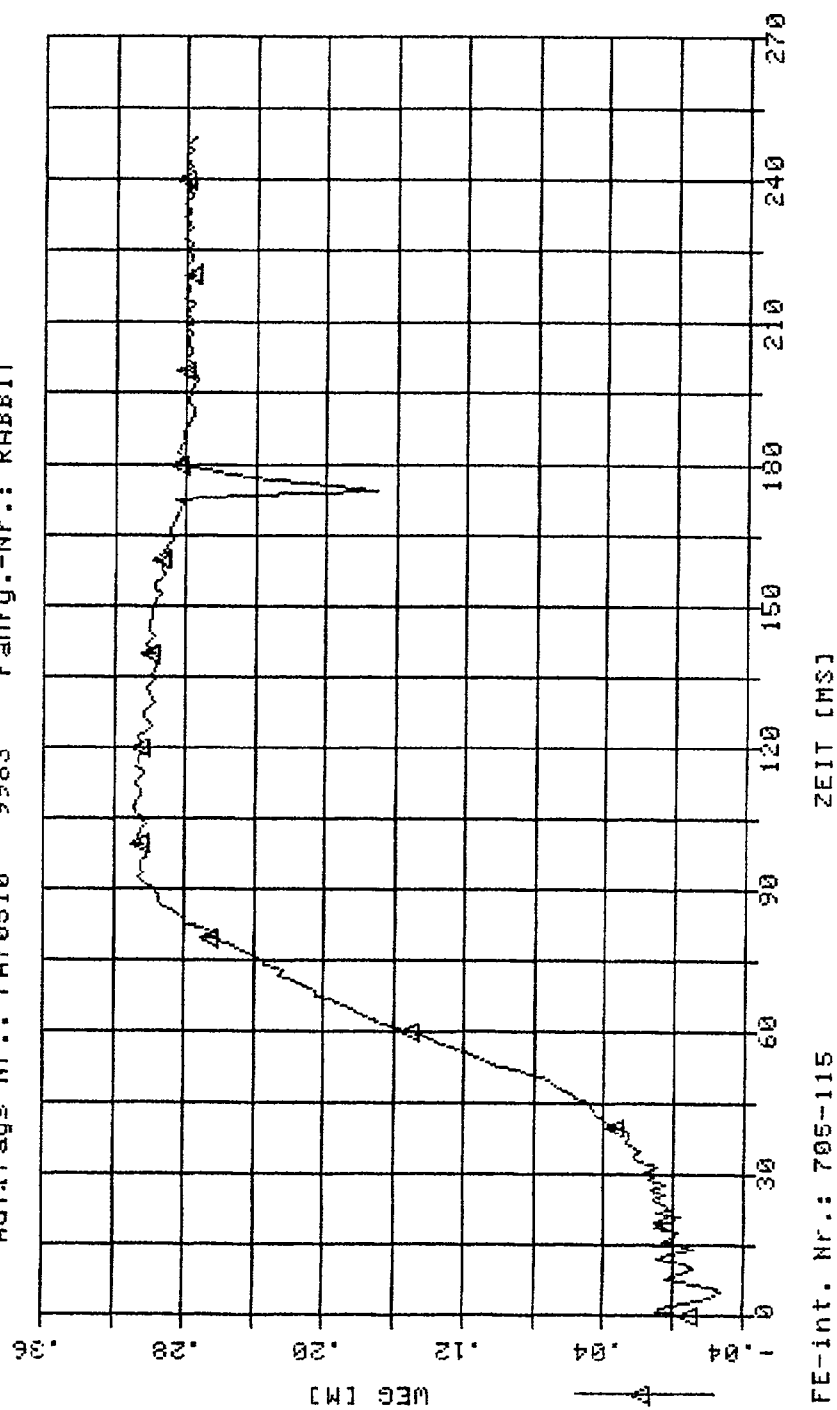
Auftrags-Nr.: FA70510 9983 Fahrg.-Nr.: RABBIT





W1 TIME

Auftrags-Nr.: FR70510 9983 Fahrg.-Nr.: RHBBIT



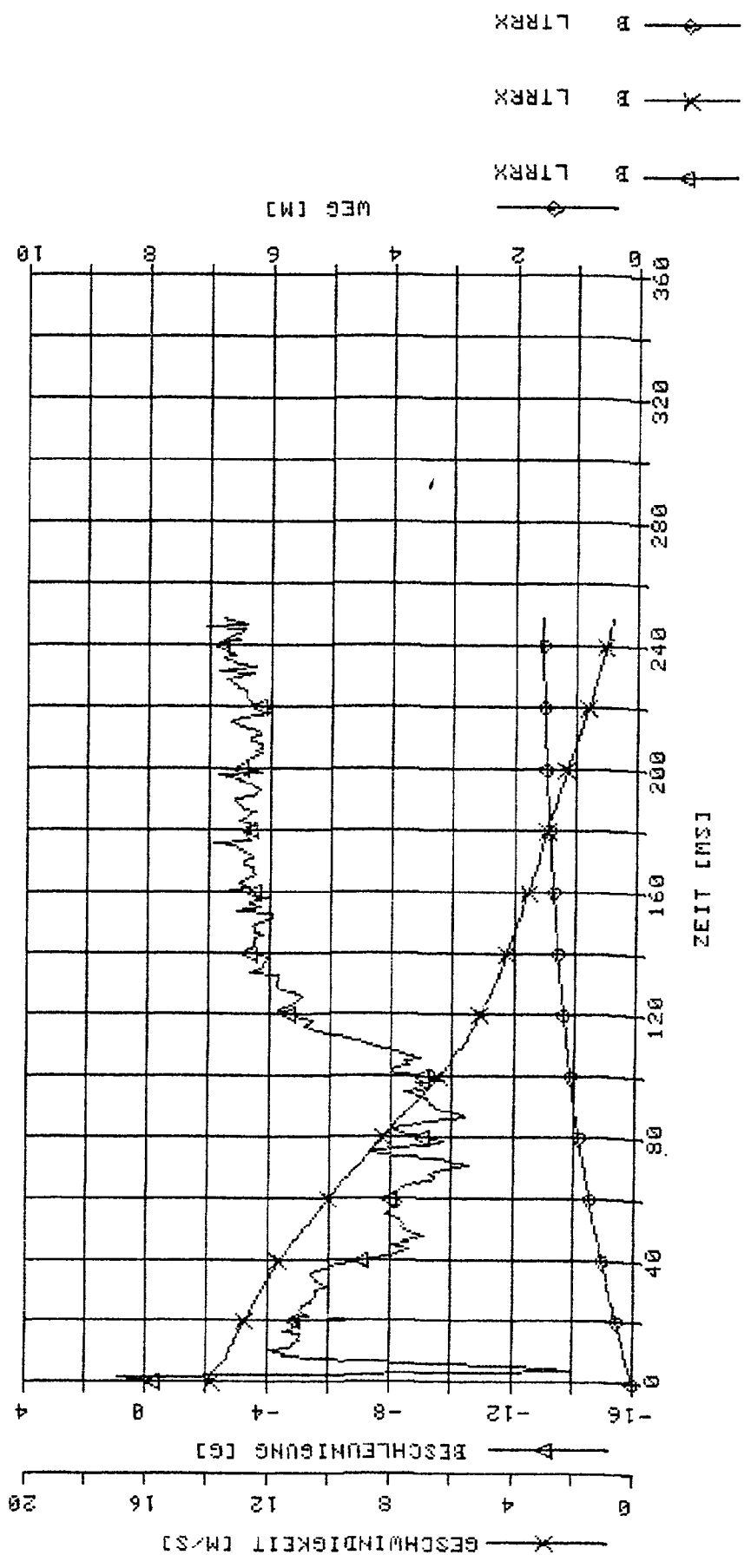
VI THWE

B.1.2 Crabbed Barrier

- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9983

Mess-Stelle	UP	ber.	Groesse	Extremum	t	3MS
LTRRX	B	BE	g	-14.010	4.00	10.62
LTRRX	B	GE	m/s	13.828	2.00	0.00
LTRRX	B	WE	m	1.533	255.00	0.00

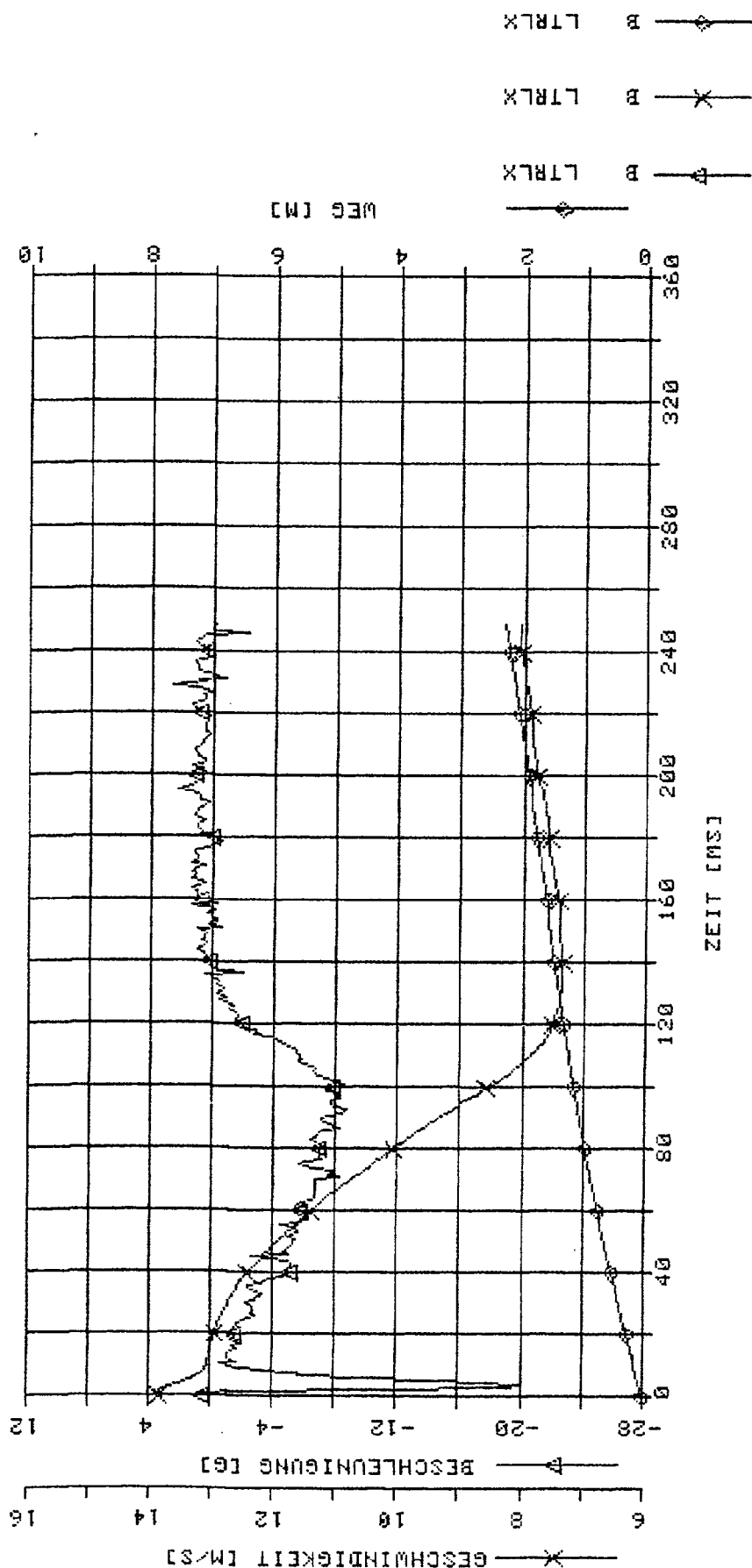
Auftrags-Nr.: FA70510 9983



- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9983

Mess-Stelle	UP	ber.	Extremum	t	3MS
LTRLX	B	Groesse		Extr.	
LTRLX	B	BE g	-20.052	4.00	9.25
LTRLX	B	GE m/s	13.828	1.00	0.00
LTRLX	B	WE m	2.351	255.00	0.00

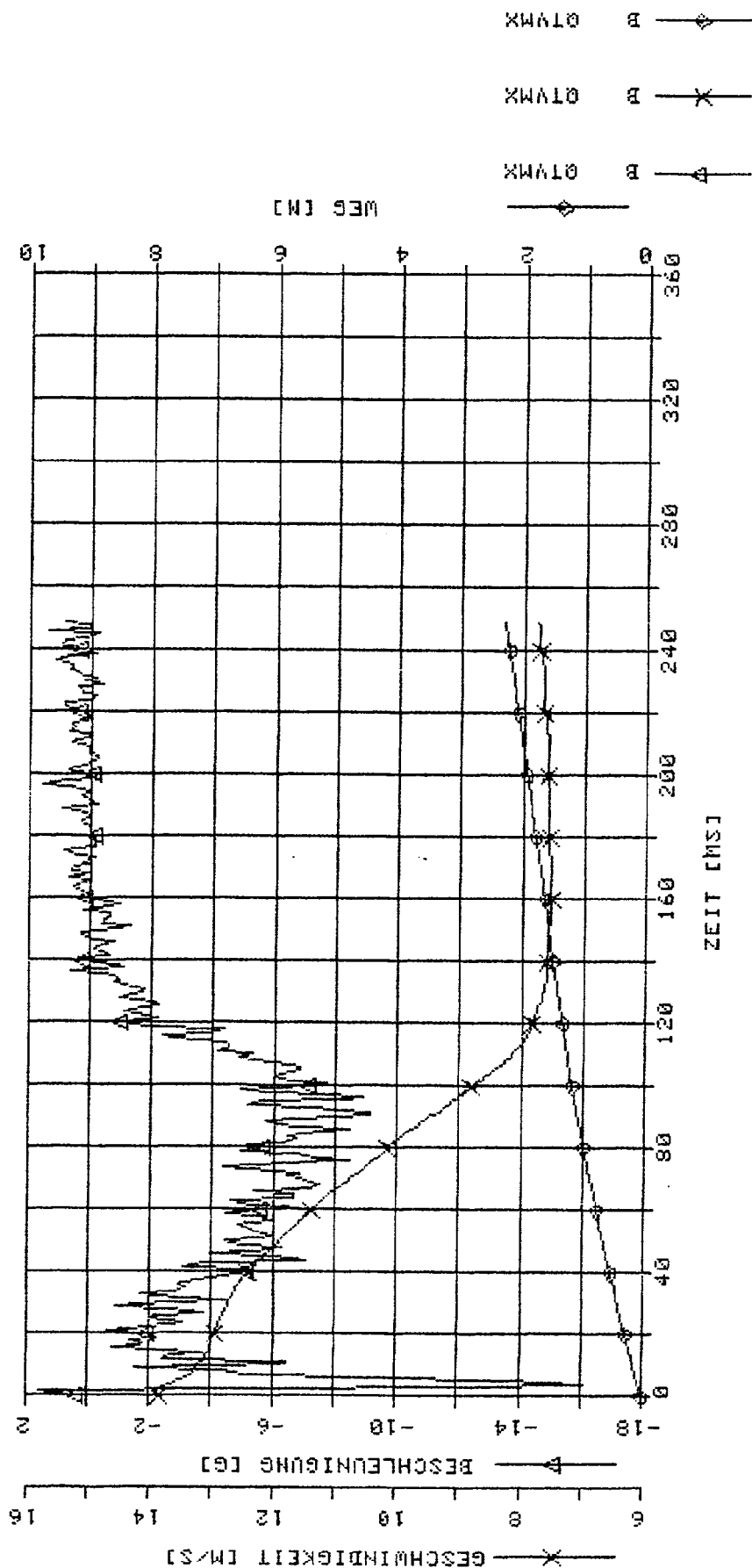
Auftrags-Nr.: FA70510 9983



- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9983

Mess-Stelle	UP	ber.	Extremum	t	3MS
QTVMX	B	BE	-16.116	4.00	9.07
QTVMX	B	GE	13.843	2.00	0.00
QTVMX	B	WE	2.355	255.00	0.00

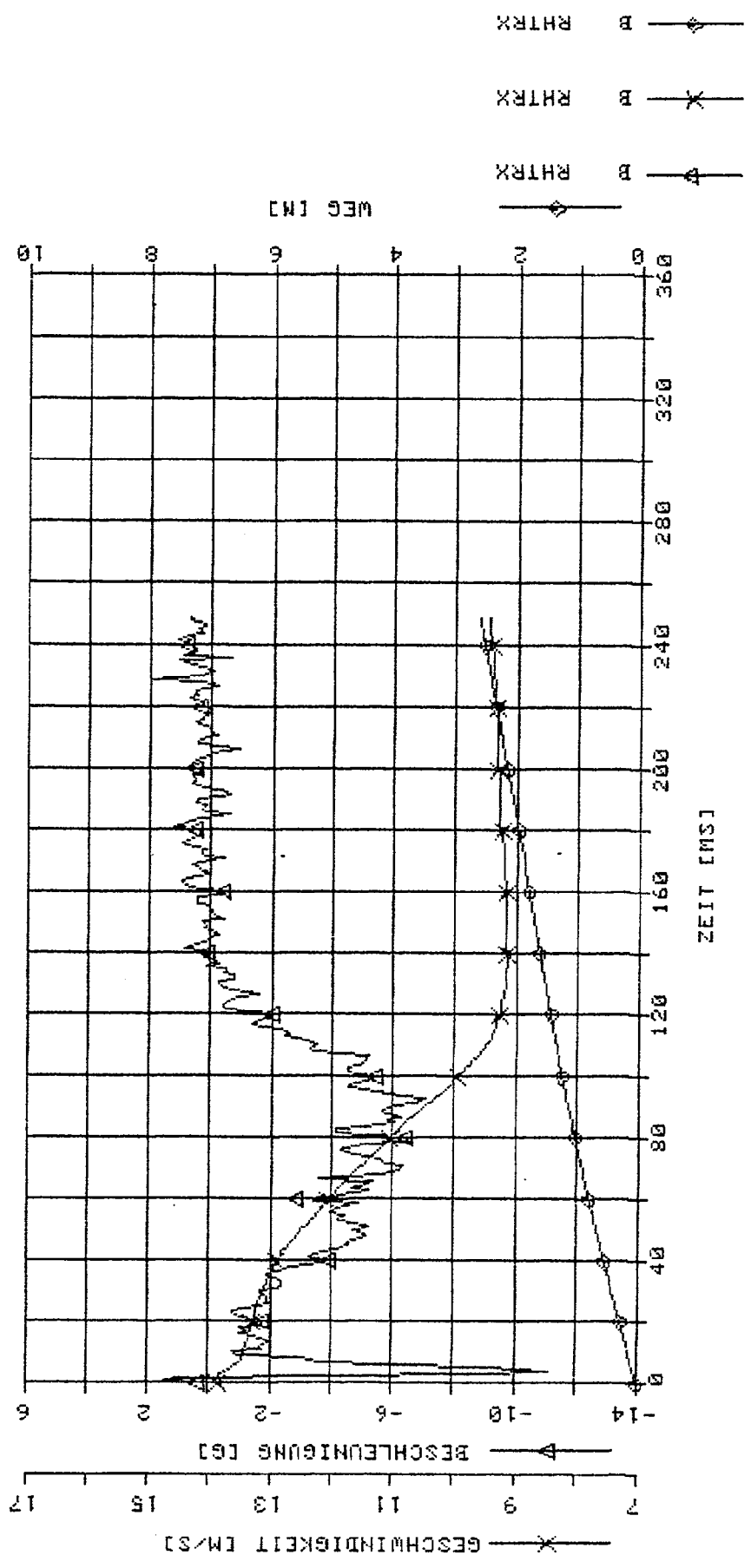
Auftrags-Nr.: FA70510 9983



- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9983

Mess-Stelle	UP	ber.	Extremum	t	3MS
RHTRX	B	Grösse	-11.133	4.00	7.12
RHTRX	B	BE g	13.842	2.00	0.00
RHTRX	B	GE m/s	2.665	255.00	0.00
		WE m			

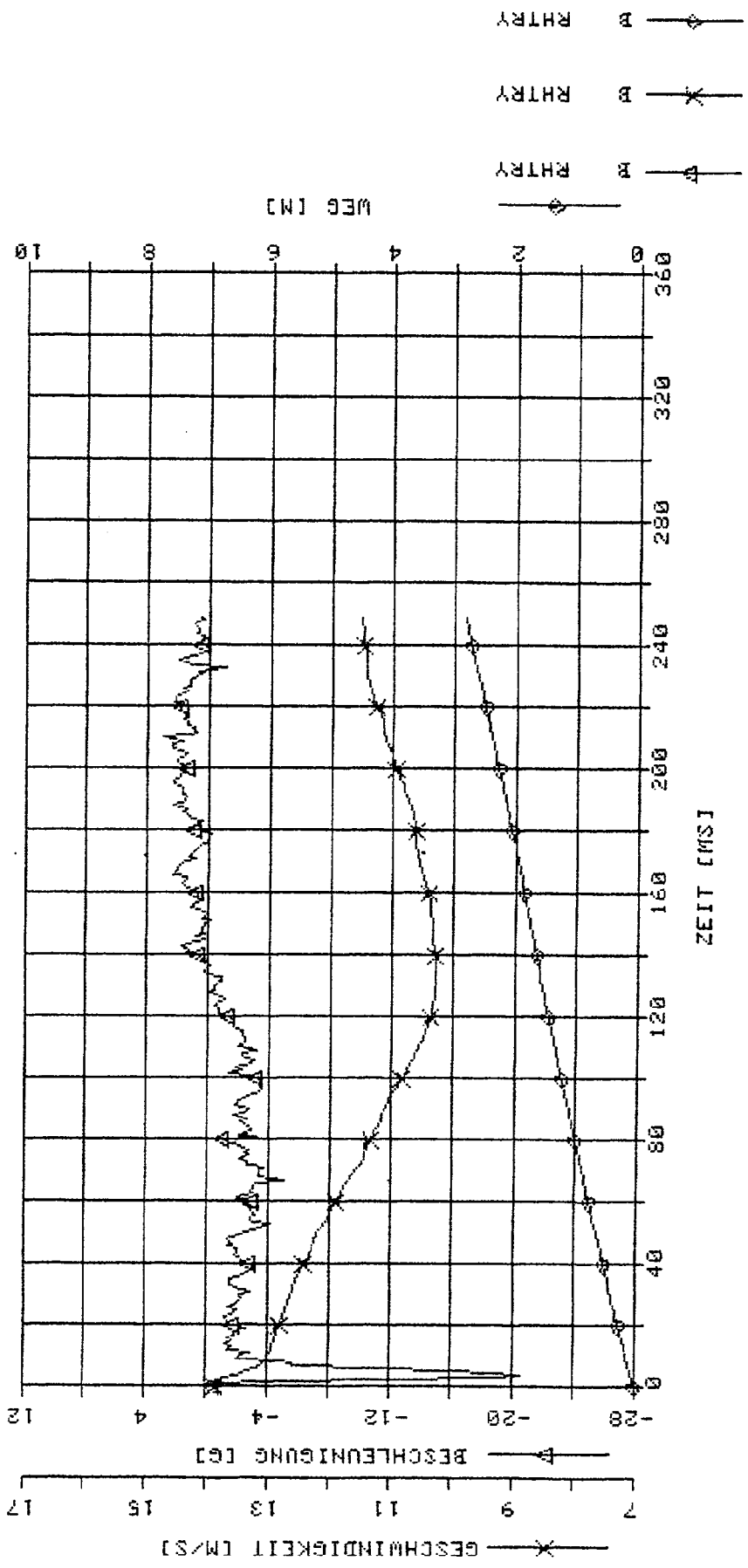
Auftrags-Nr.: FA70510 9983



- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9983

Mess-Stelle	UP	ber.	Groesse	Extremum	t	3MS
RHTRY	B	BE	g	-20.601	4.00	10.71
RHTRY	B	GE	m/s	13.822	0.00	0.00
RHTRY	B	WE	m	2.885	255.00	0.00

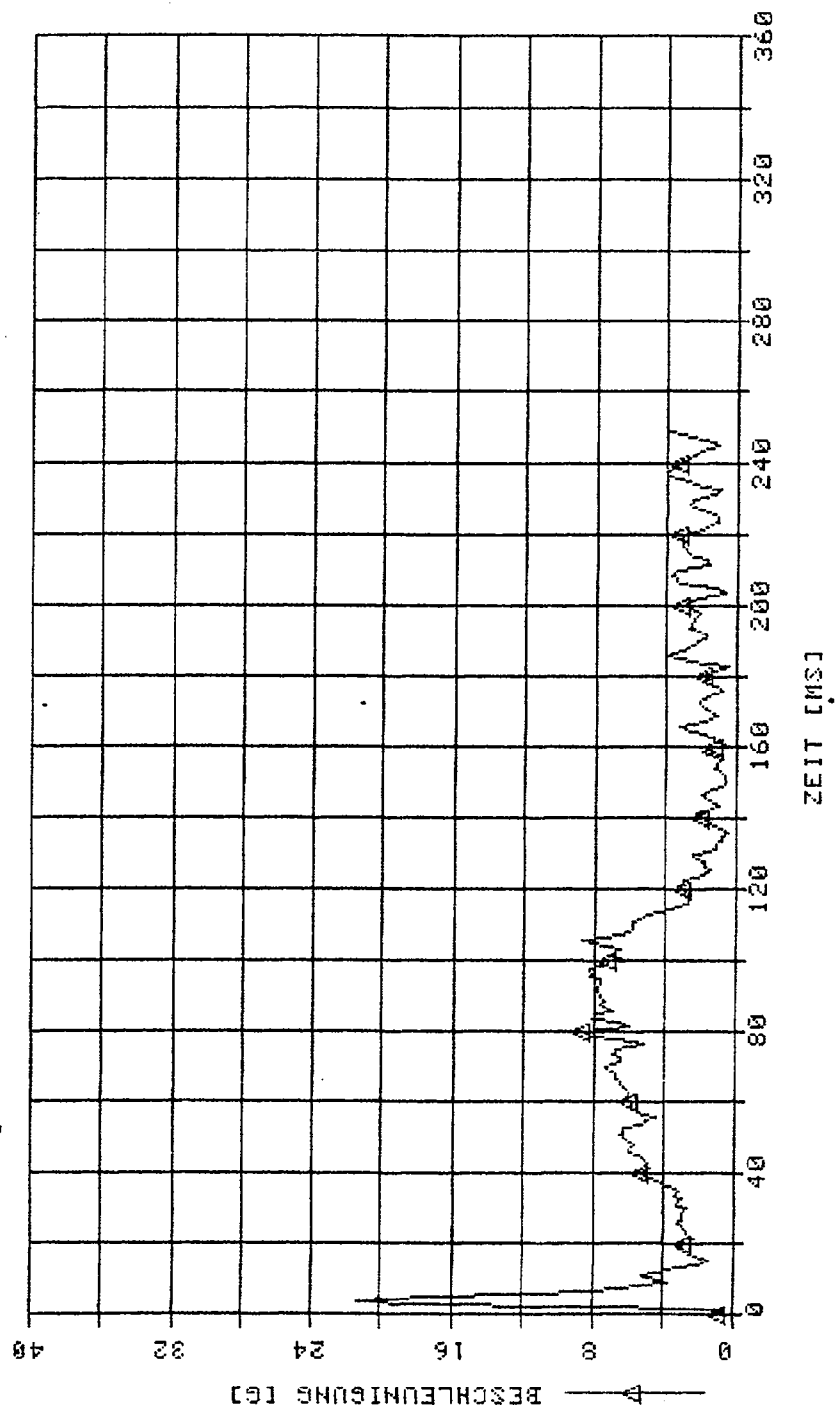
Auftrags-Nr.: FA70510 9983



- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9983

Mess-Stelle	UP	ber.	Extremum	t	3MS
SPKT	B	BE g	21.325	Extr.	4.00 11.88

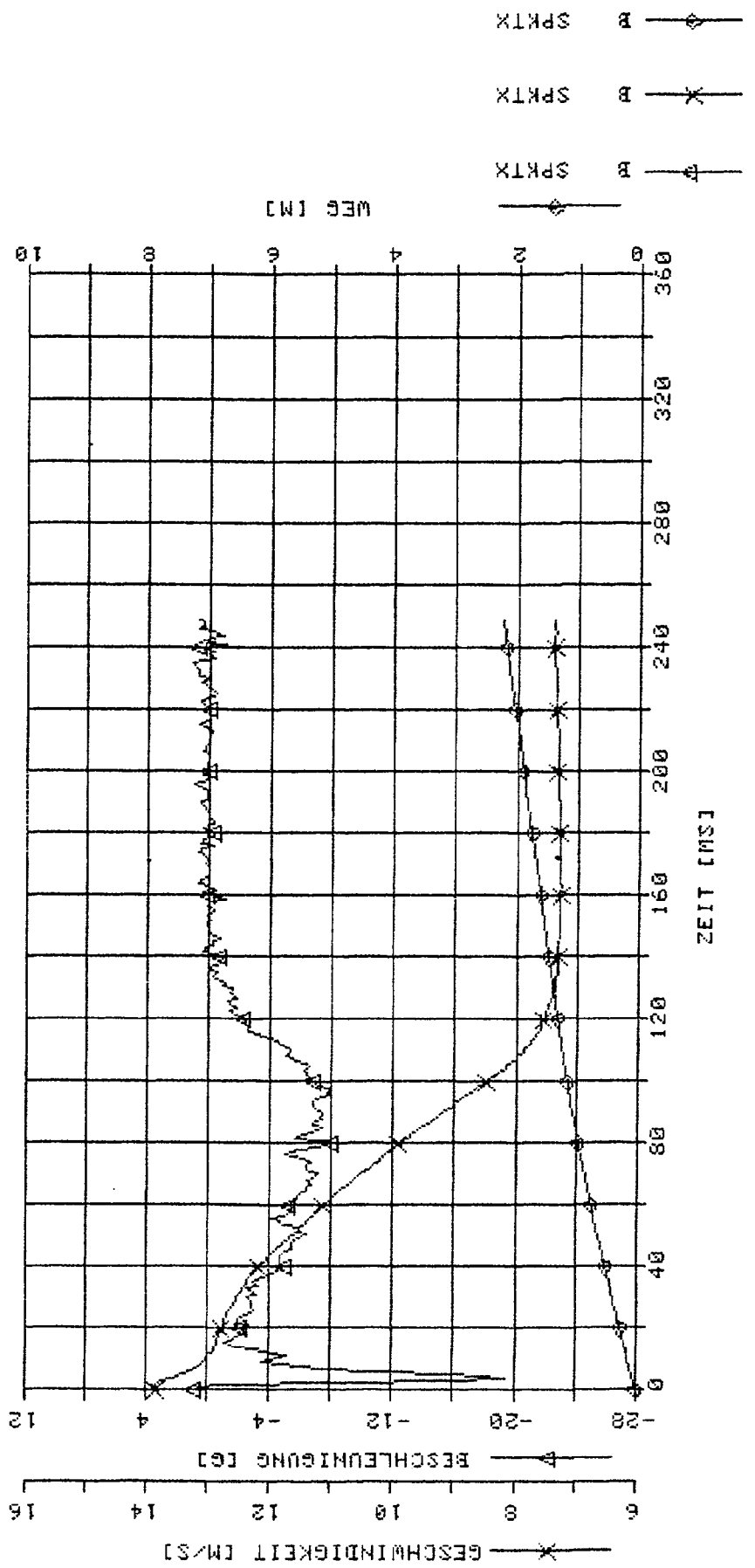
Auftrags-Nr.: FA70510 9983



- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9983

Mess-Stelle	UP	ber.	Extremum	t	3MS
SPKTX	B	BE g	-19.533	4.00	11.04
SPKTX	B	GE m/s	13.828	1.00	0.00
SPKTX	B	WE m	2.288	255.00	0.00

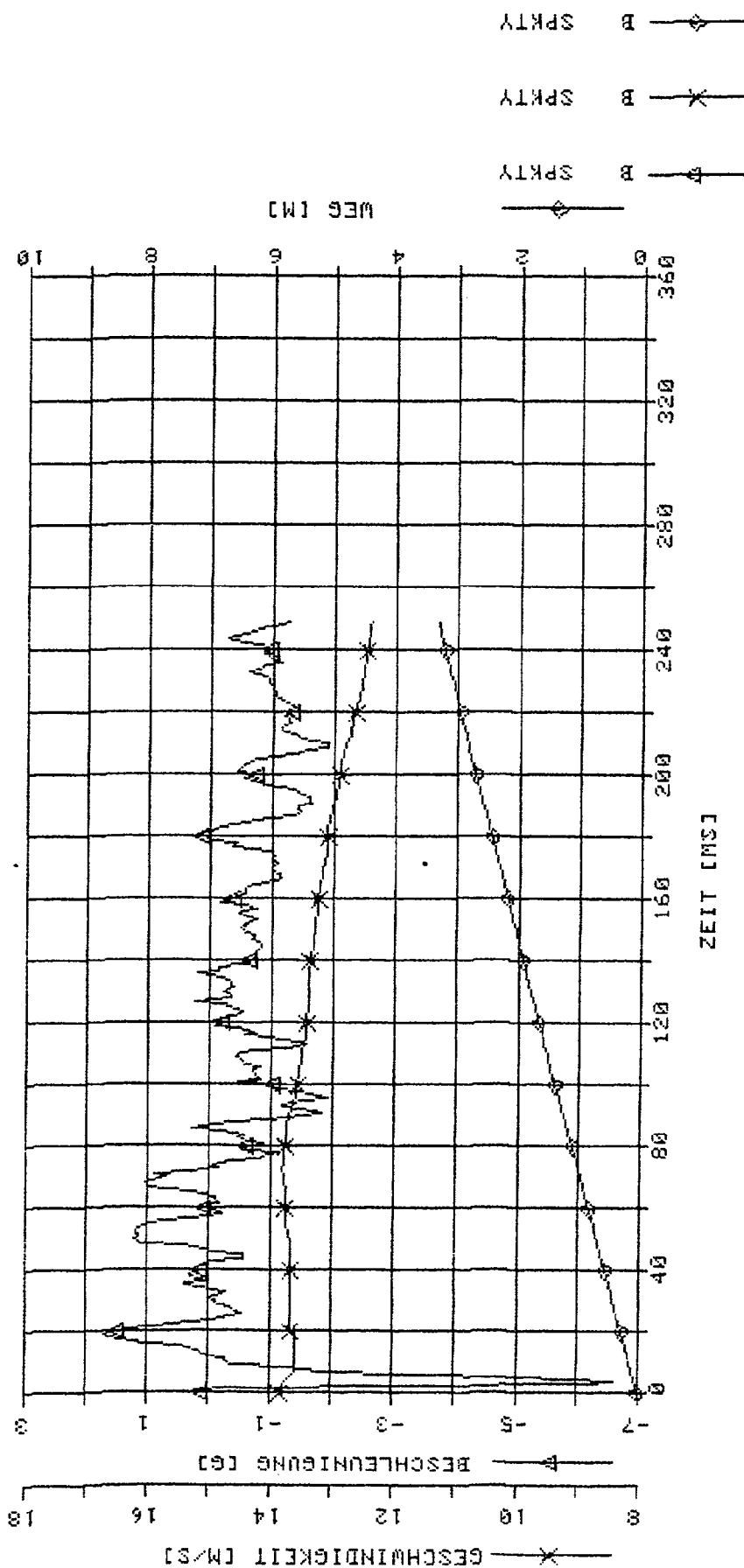
Auftrags-Nr.: FA70510 9983



- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9983

Mess-Stelle	UP	ber.	Grösse	Extremum	t	Extr.	3MS
SPKTY	B	BE	g	-6.613		4.00	3.22
SPKTY	B	GE	m/s	13.824		1.00	0.00
SPKTY	B	WE	m	3.388		255.00	0.00

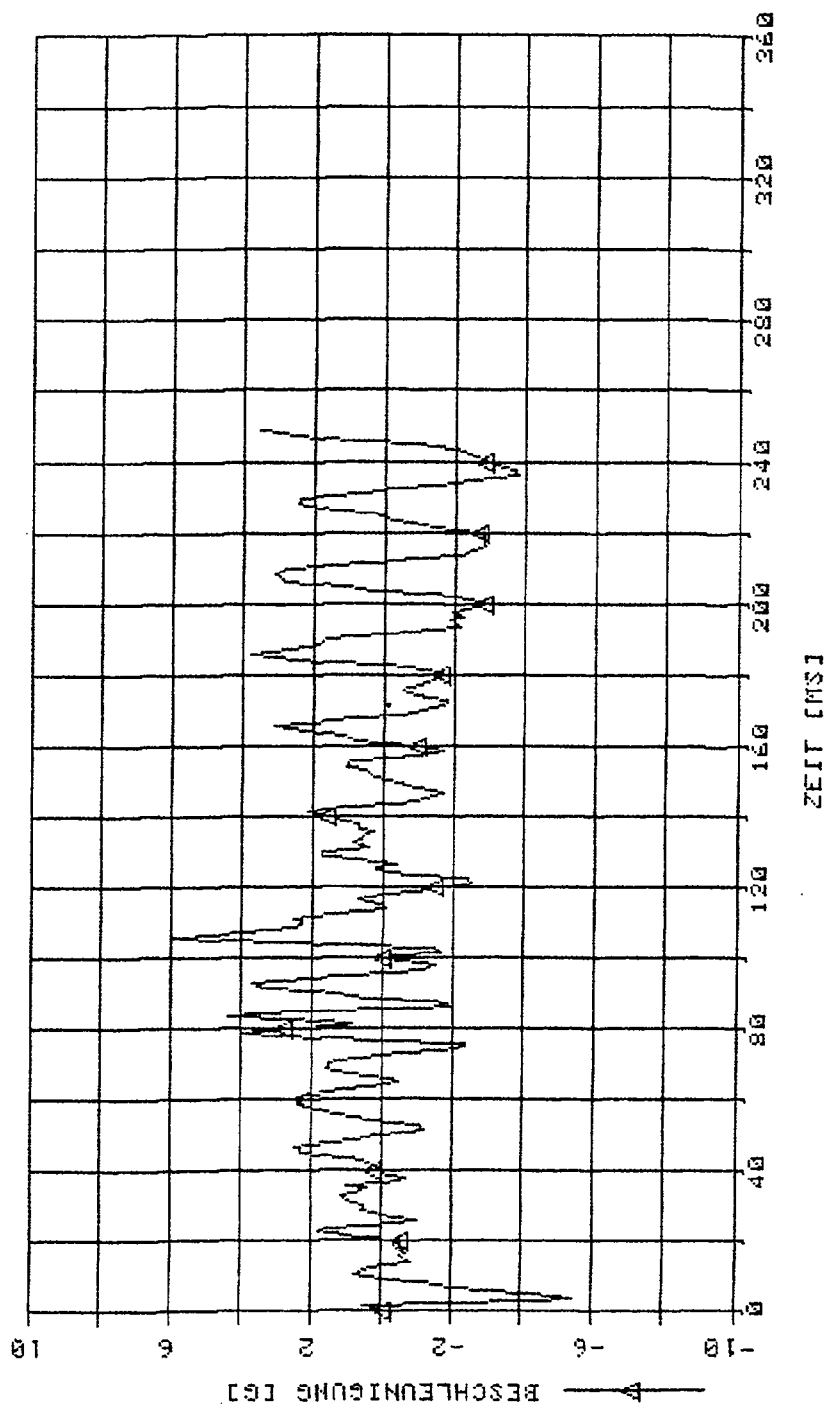
Auftrags-Nr.: FA70510 9983



- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9983

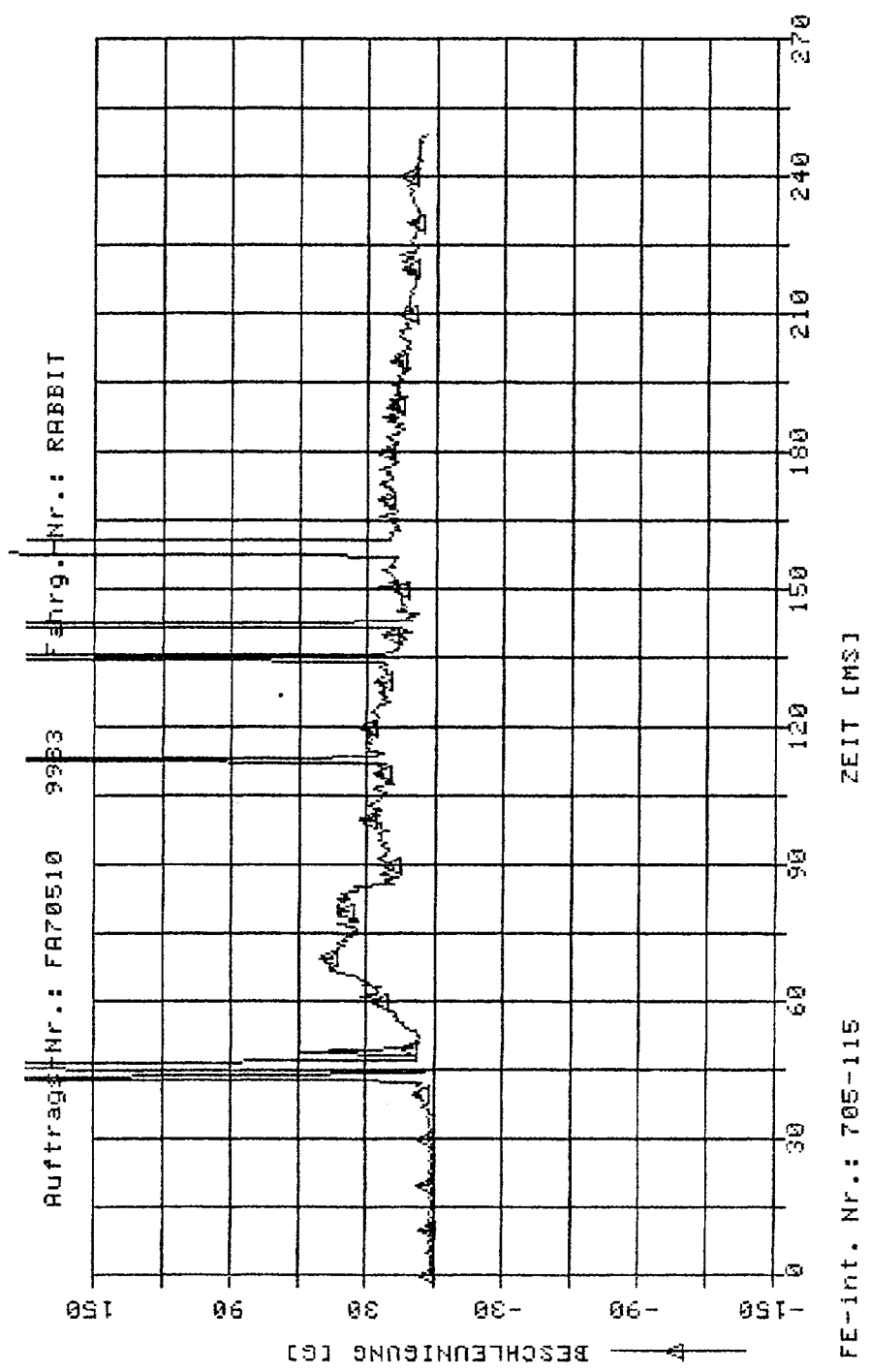
Mess-Stelle	UP	ber.	Extremum	t	3MS
SPKTZ	B	BE g	5.905	Extr. 106.00	4.56

Auftrags-Nr.: FA70510 9983

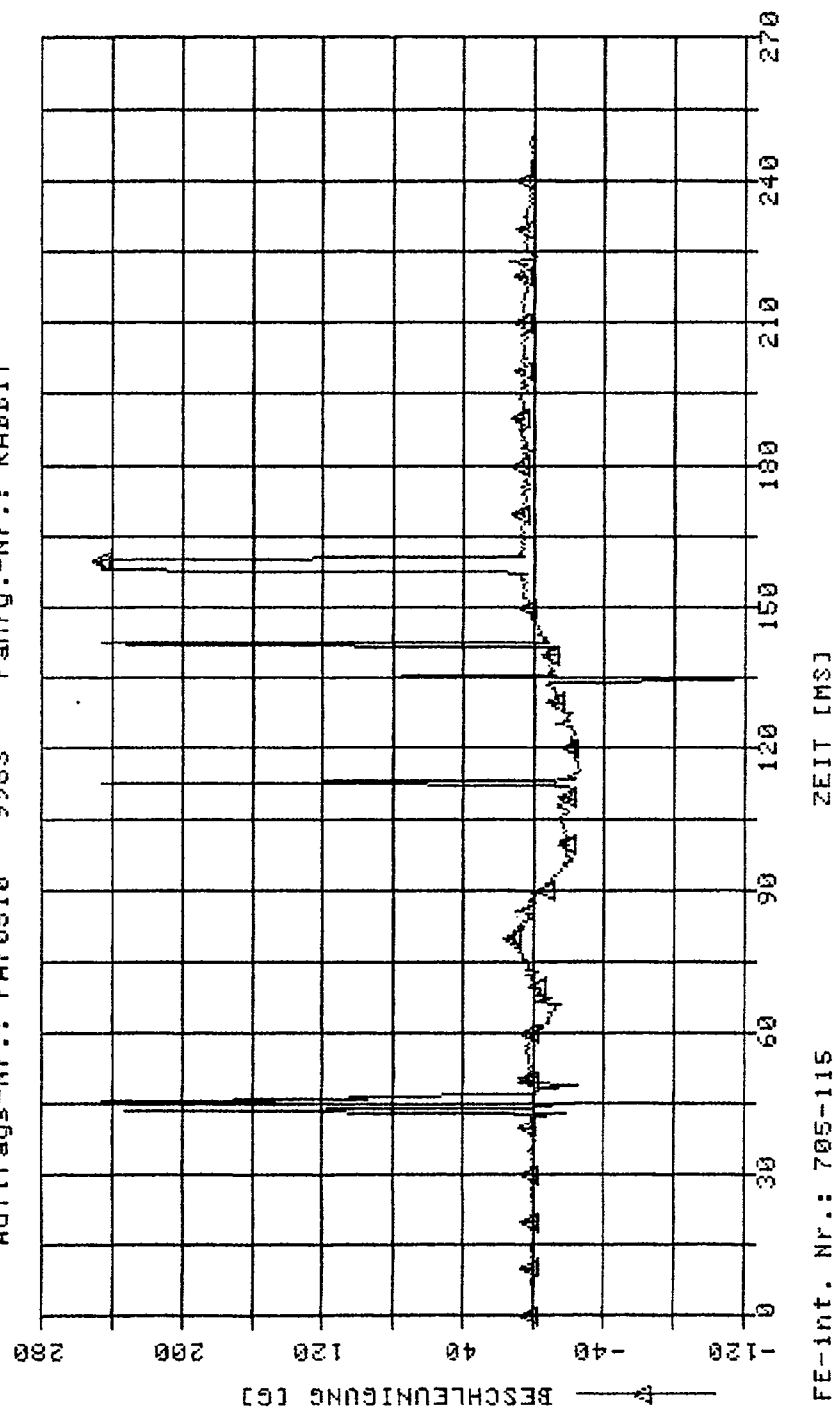


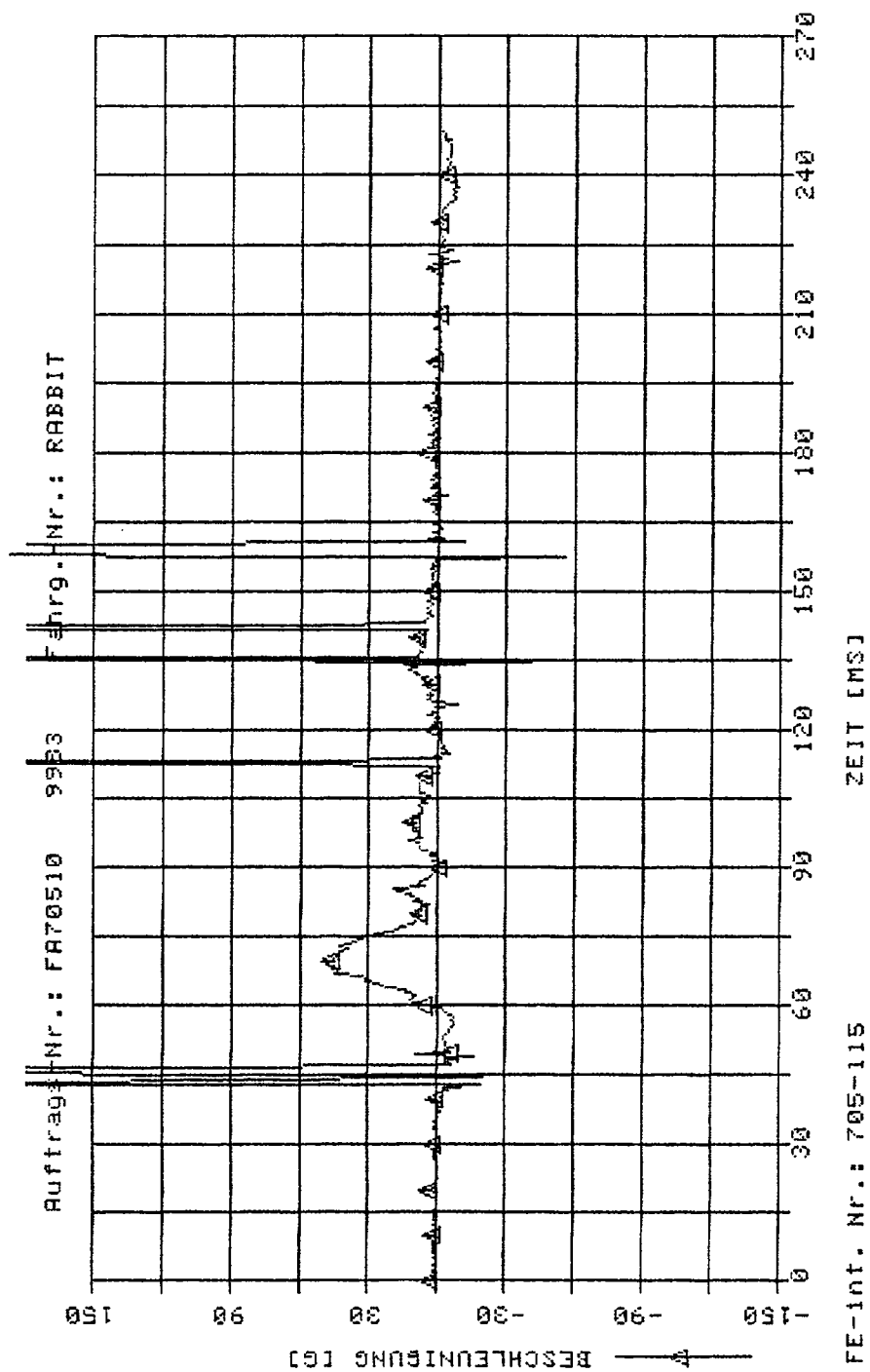
SPKTZ B

B.2 Dummy Test Response
B.2.1 Driver

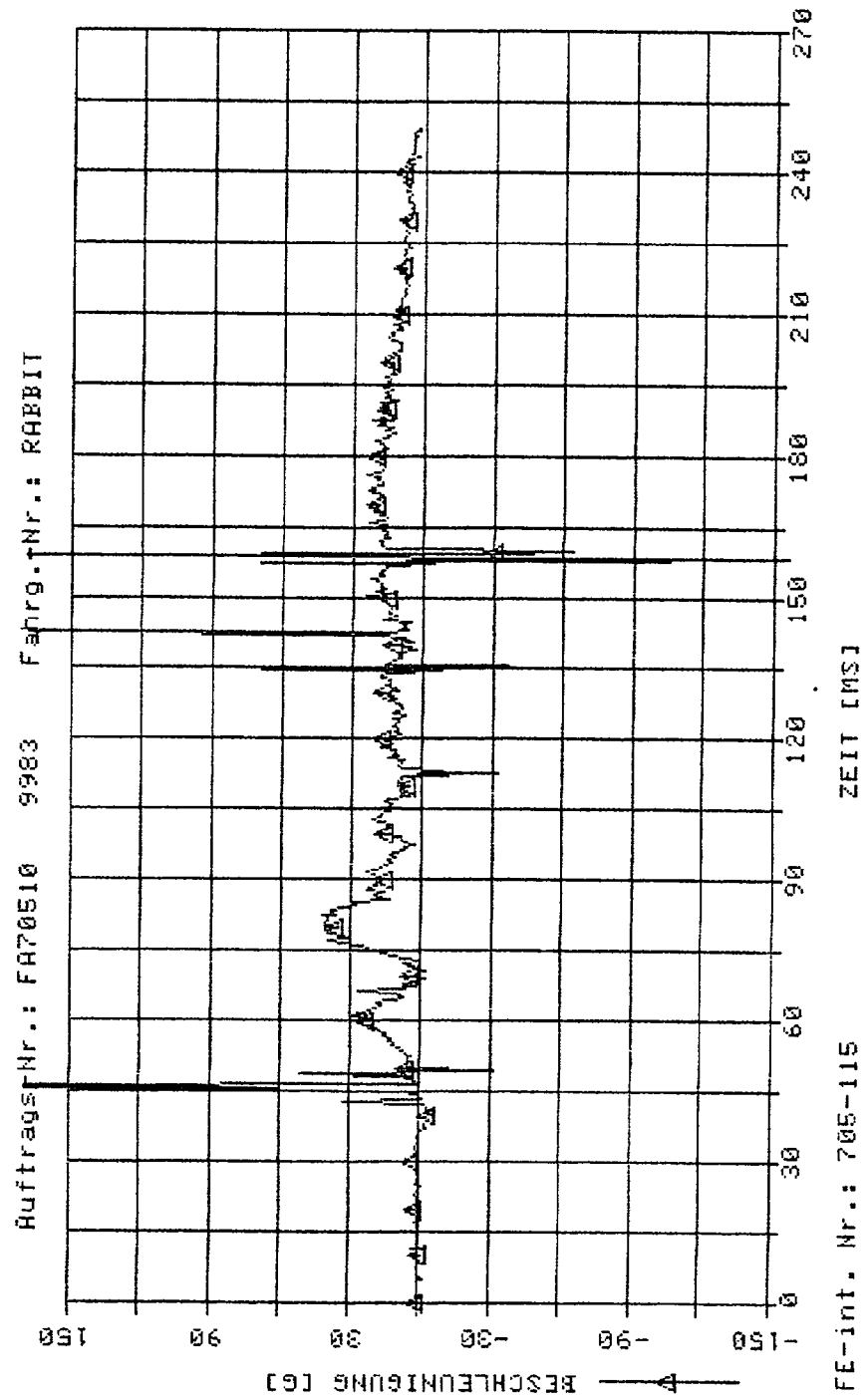


Auftrags-Nr.: FA70510 9983 Fahrg.-Nr.: RABBIT





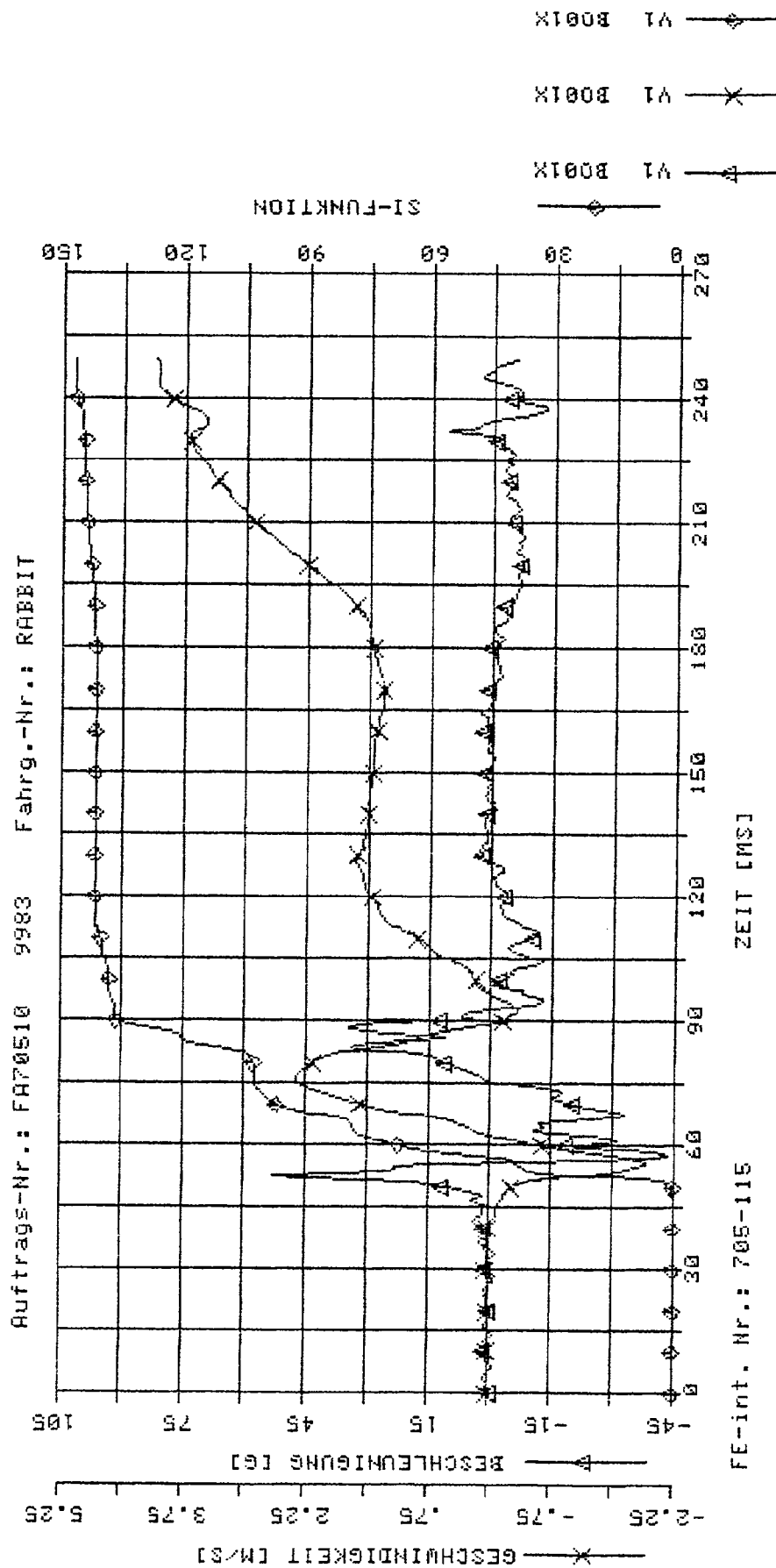
4
 VI K081Y



V1 K0012

Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9983

Mess-Stelle	UP	ber.	Extremum	t	3MS
B001X	V1	BE g	52.806	52.50	39.58
B001X	V1	GE m/s	4.333	255.50	0.00
B001X	V1	SI	146.589	250.00	0.00

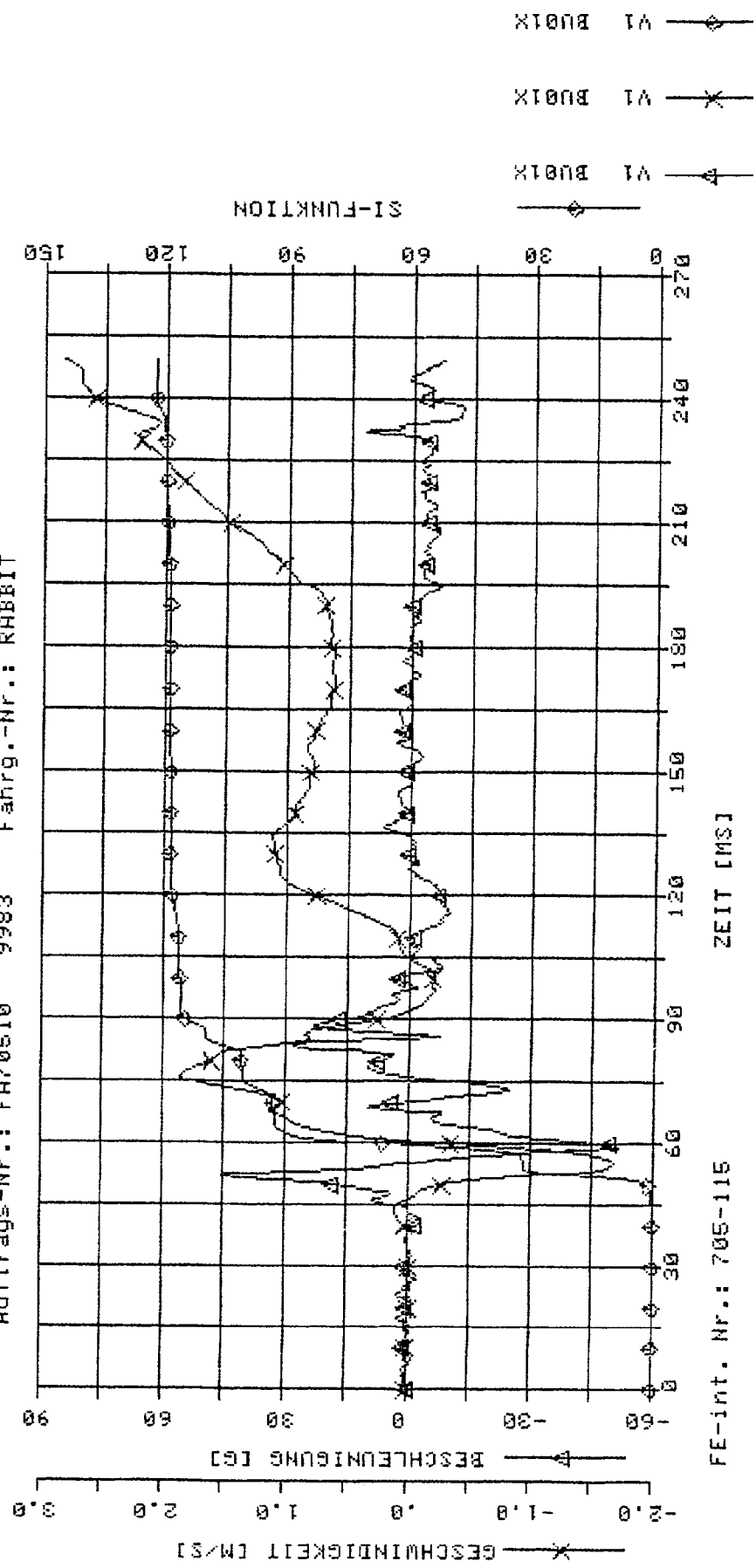


FE-int. Nr.: 705-115

- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9983

Mess-Stelle	UP	ber.	Extremum	t	3MS
BU01X	V1	BE g	-51.660	59.00	42.82
BU01X	V1	GE m/s	3.233	255.50	0.00
BU01X	V1	SI	122.637	250.00	0.00

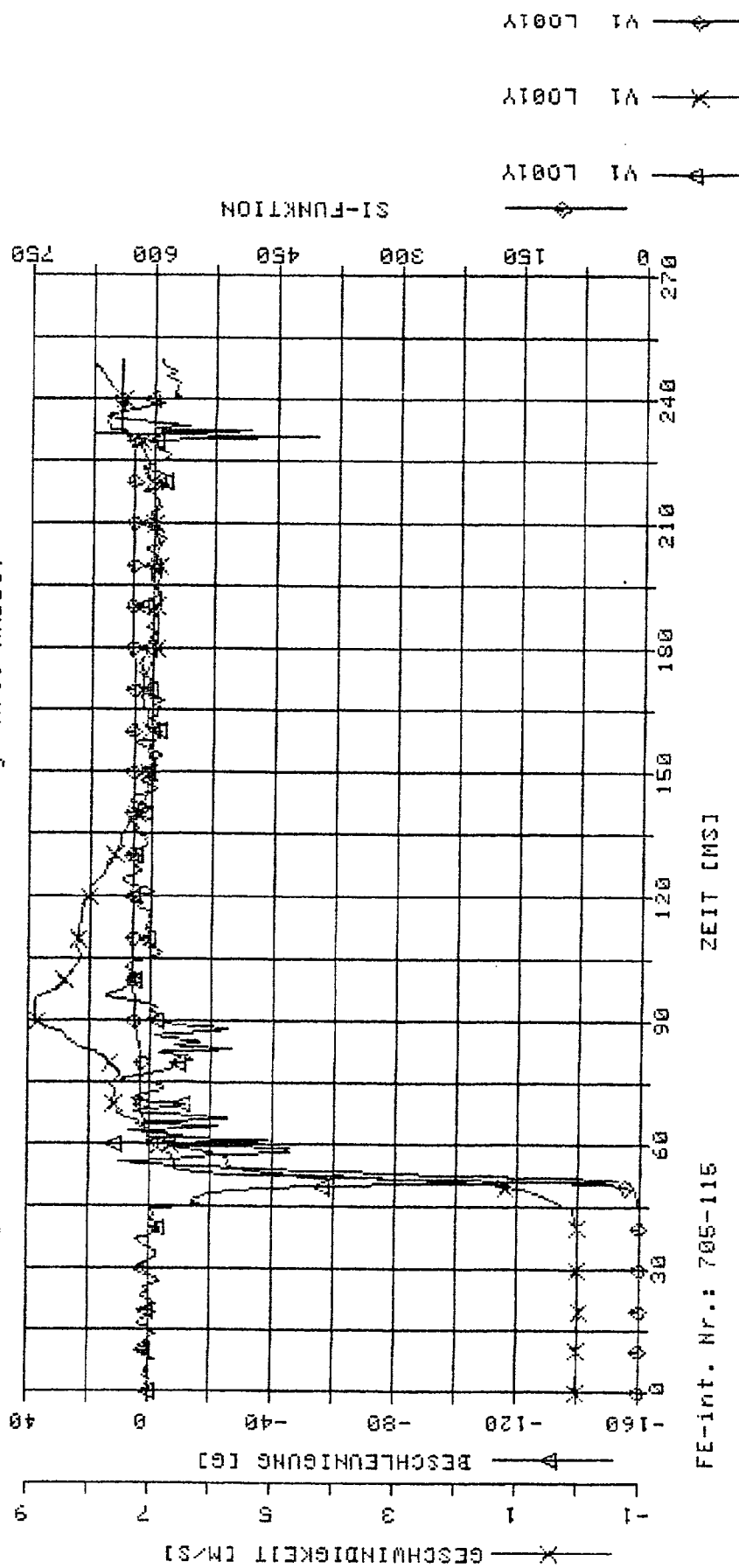
Auftrags-Nr.: FA70510 9983 Fahrg.-Nr.: RABBIT



- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9983

Mess-Stelle	UP	ber.	Extremum	t	3MS
L001Y	V1	BE g	-153.306	51.50	83.09
L001Y	V1	GE m/s	8.886	94.50	0.00
L001Y	V1	SI	640.500	250.00	0.00

Auftrags-Nr.: FA70510 9983 Fahrg.-Nr.: RABBIT



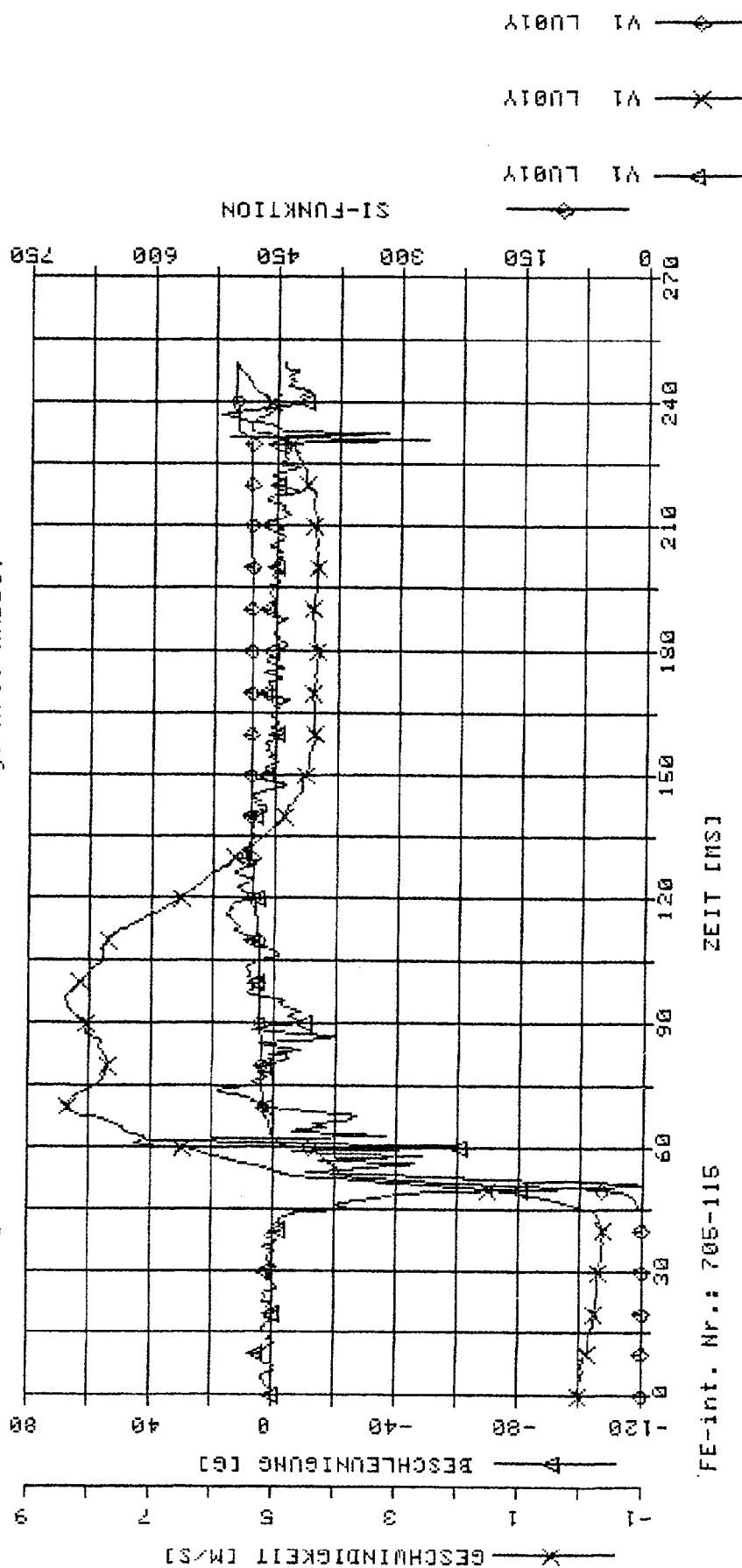
FE-int. Nr.: 705-115

ZEIT [MS]

- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9983

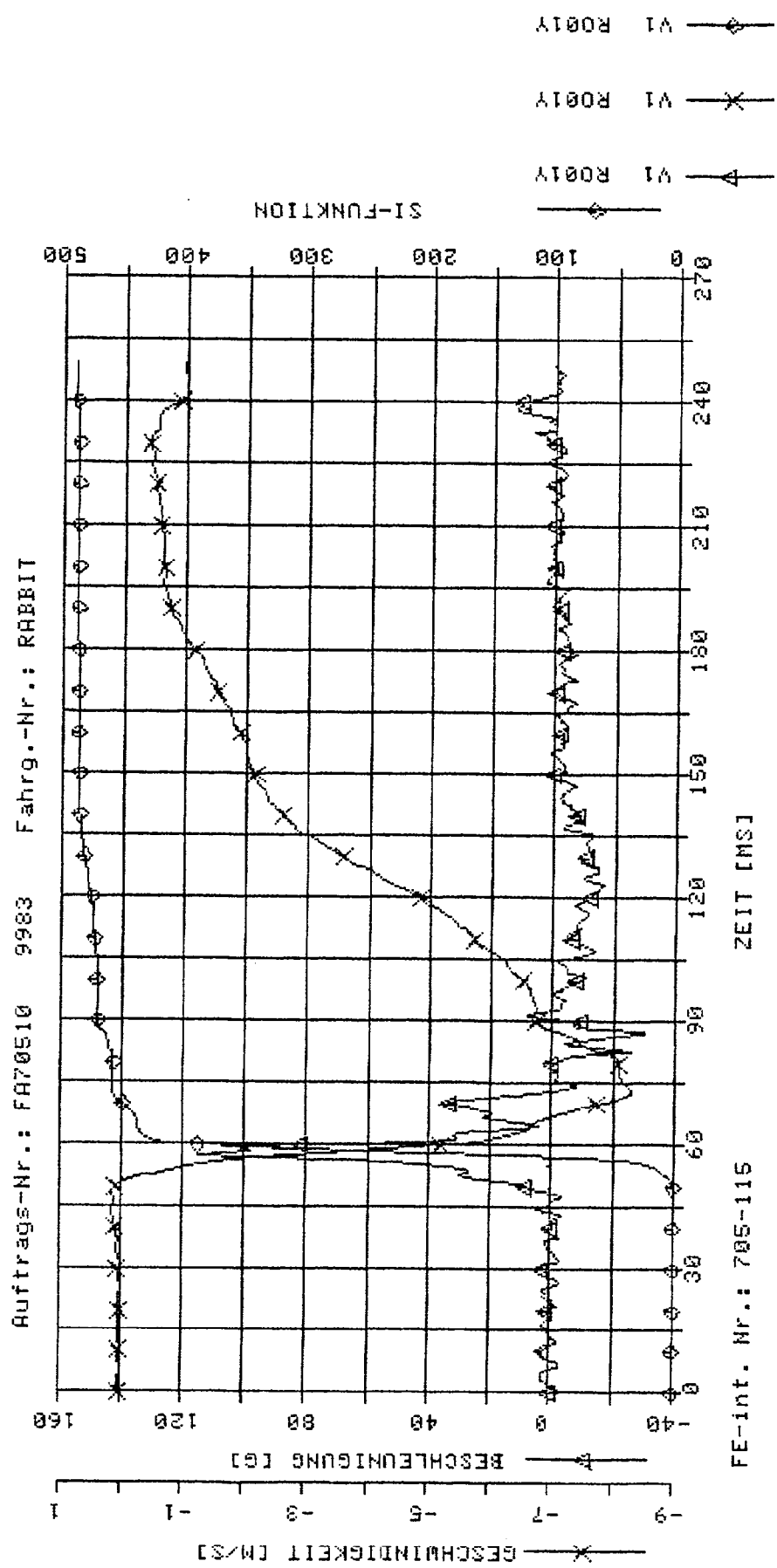
Mess-Stelle	UP	ber.	Extremum	t	3MS
LU01Y	V1	Grösse	-119.400	51.00	64.03
LU01Y	V1	BE g	8.386	96.00	0.00
LU01Y	V1	GE m/s	500.036	250.00	0.00
LU01Y	V1	SI			

Auftrags-Nr.: FA70510 9983 Fahrg.-Nr.: RABBIT



- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9983

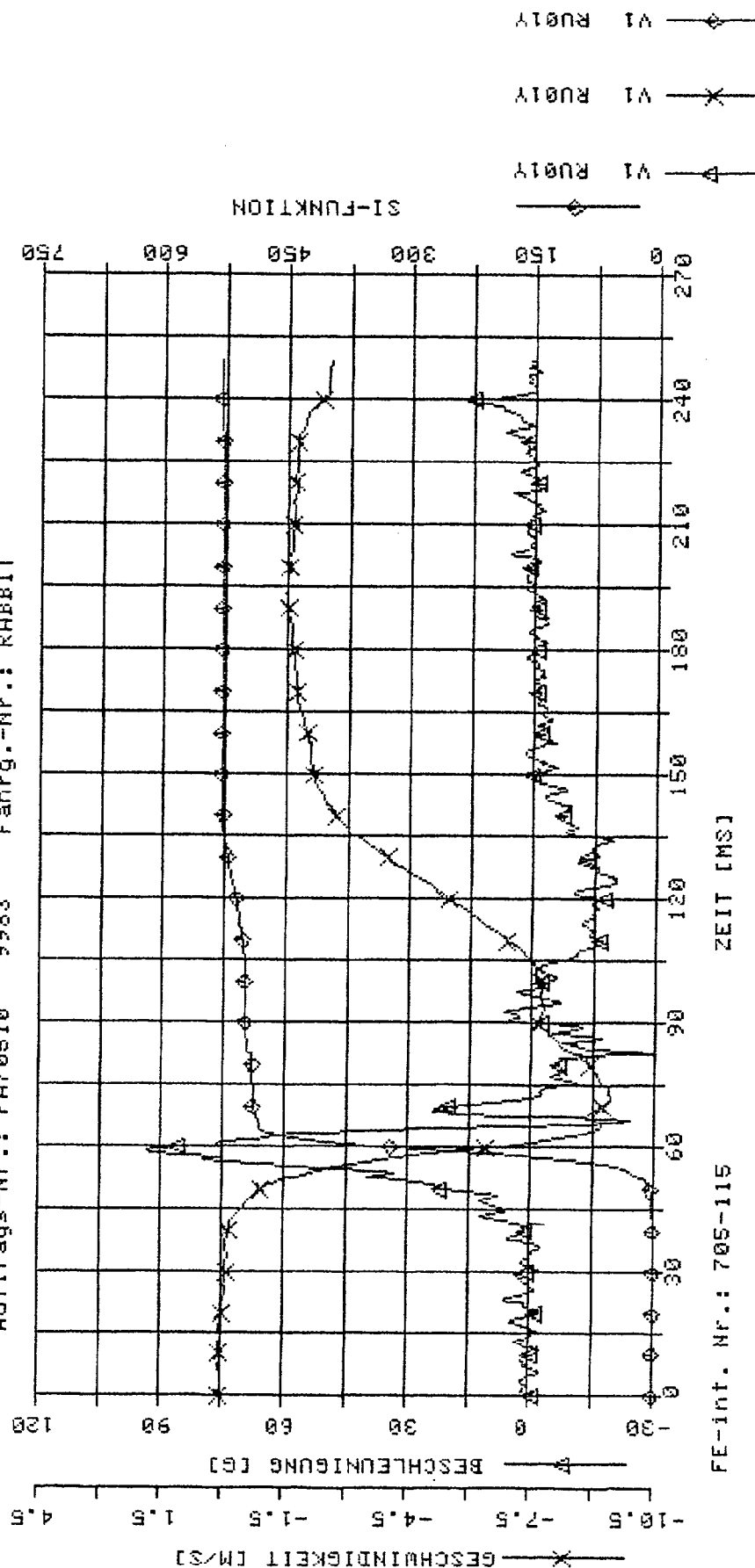
Mess-Stelle	UP	ber.	Grösse	Extremum	t	Extr.	3MS
RO01Y	V1	BE	g	114.563		57.50	80.92
RO01Y	V1	GE	m/s	-8.303		73.00	0.00
RO01Y	V1	SI		488.406		250.00	0.00



- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9983

Mess-Stelle	UP	ber.	Extremum	t	Extr.
RU01Y	V1	BE g	92.896		59.00
RU01Y	V1	GE m/s	-9.431		72.00
RU01Y	V1	SI	530.219		250.00
					0.00
					0.00

Auftrags-Nr.: FA70510 9983 Fahrg.-Nr.: RABBIT

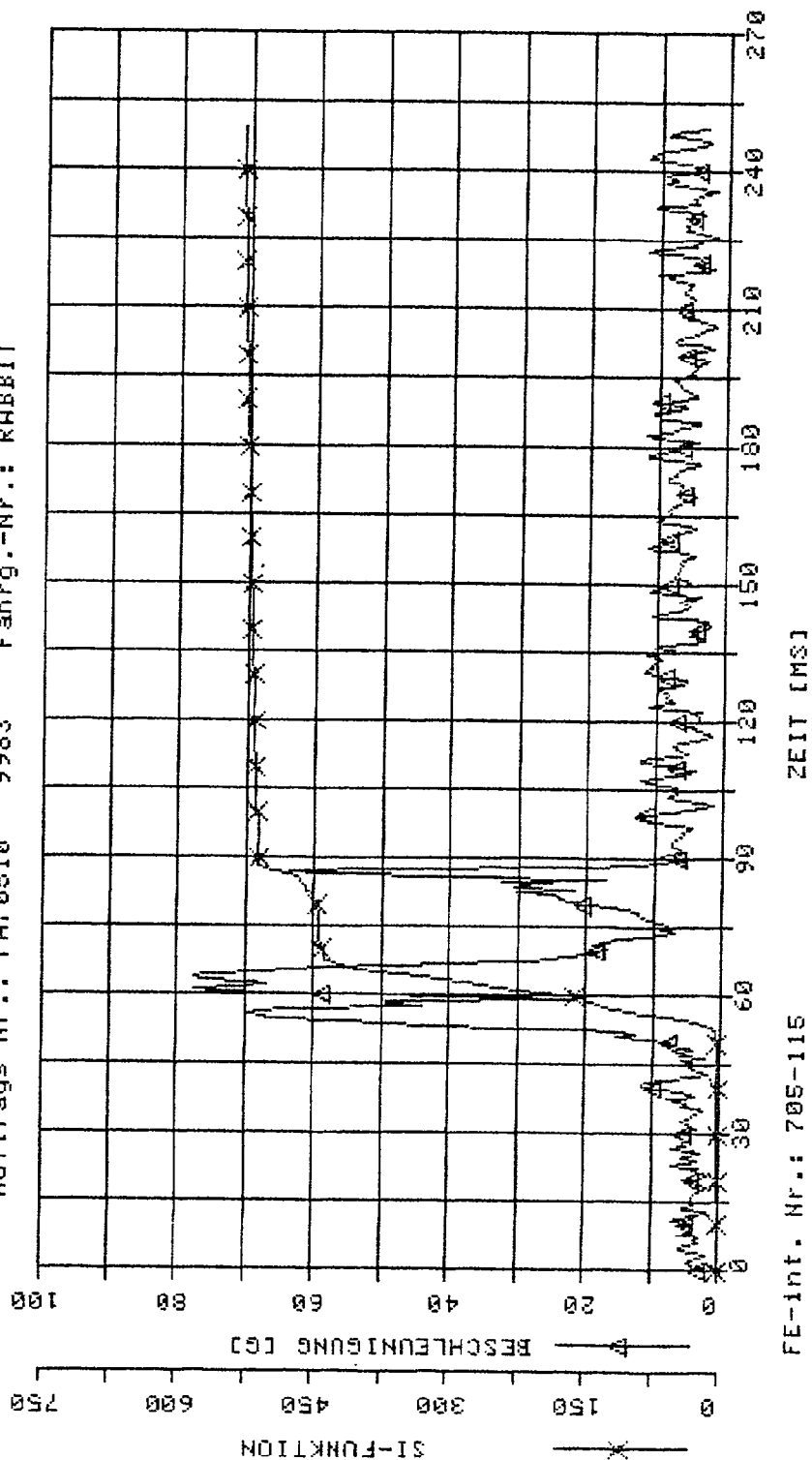


FE-int. Nr.: 705-115

- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9983

Mess-Stelle	UP	ber.	Extremum	t	Extr.
T001	V1	BE g	77.366	61.50	69.76
T001	V1	SI	533.490	250.00	0.00

Auftrags-Nr.: FA70510 9983 Fahrg.-Nr.: RABBIT



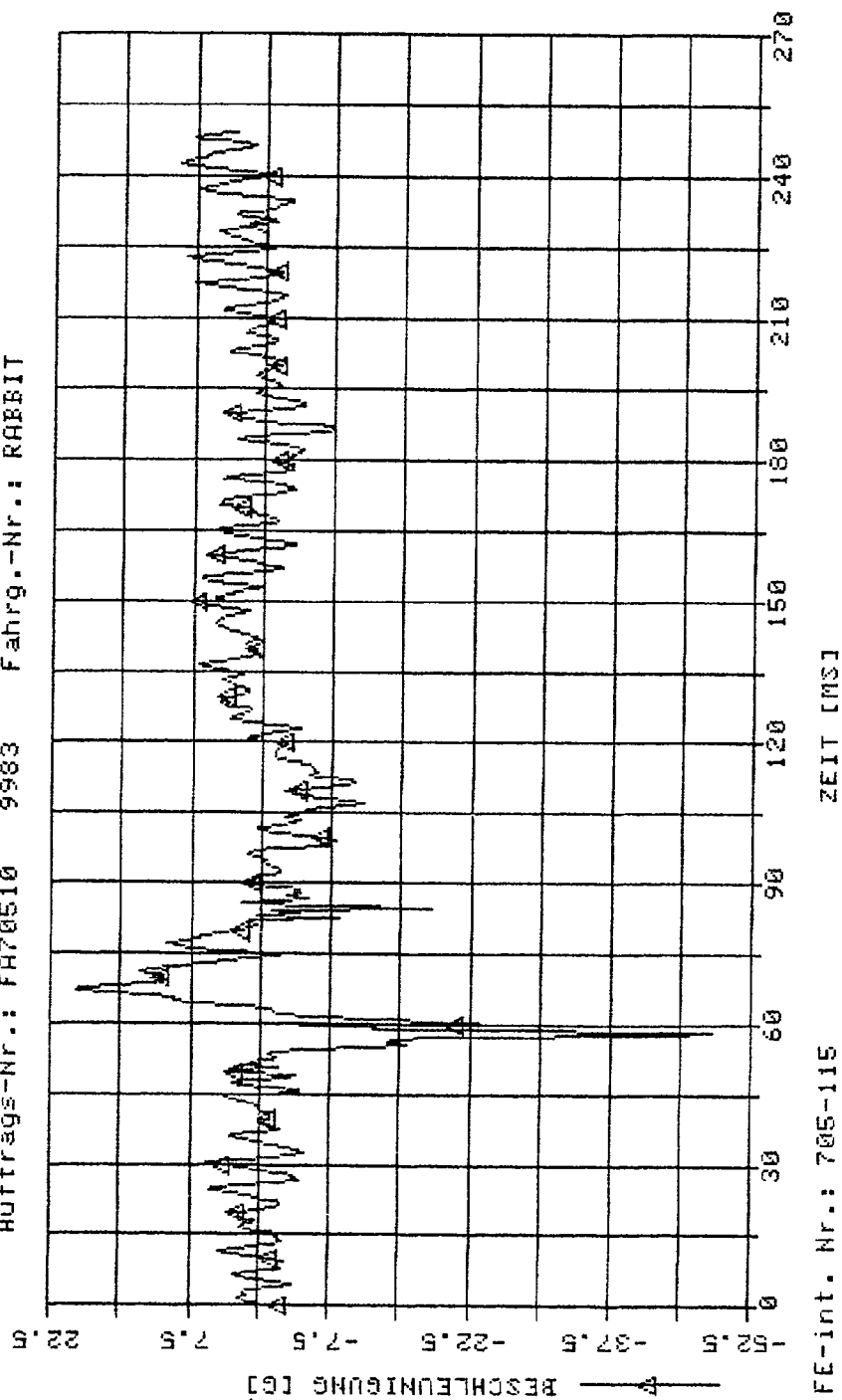
- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9983

Mess-Stelle

UP	ber.	Extremum	t	3MS
V1	BE g	-48.235	58.50	19.64

T001X

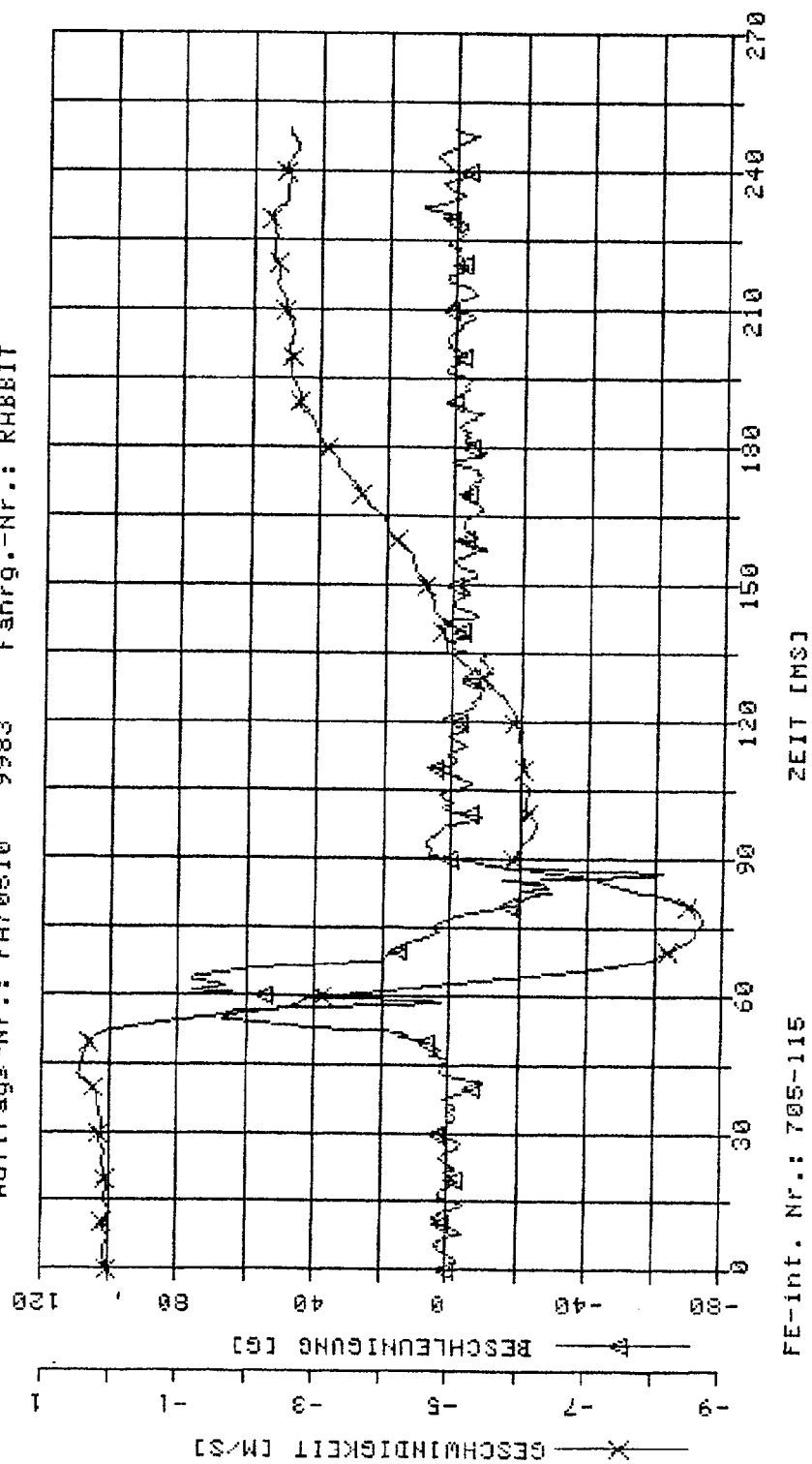
Auftrags-Nr.: FA70510 9983 Fahrg.-Nr.: RABBIT



- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9983

Mess-Stelle	UP	ber.	Extremum	t	3MS
T001Y	V1	BE g	75.730	64.00	68.26
T001Y	V1	GE m/s	-8.715	77.00	0.00

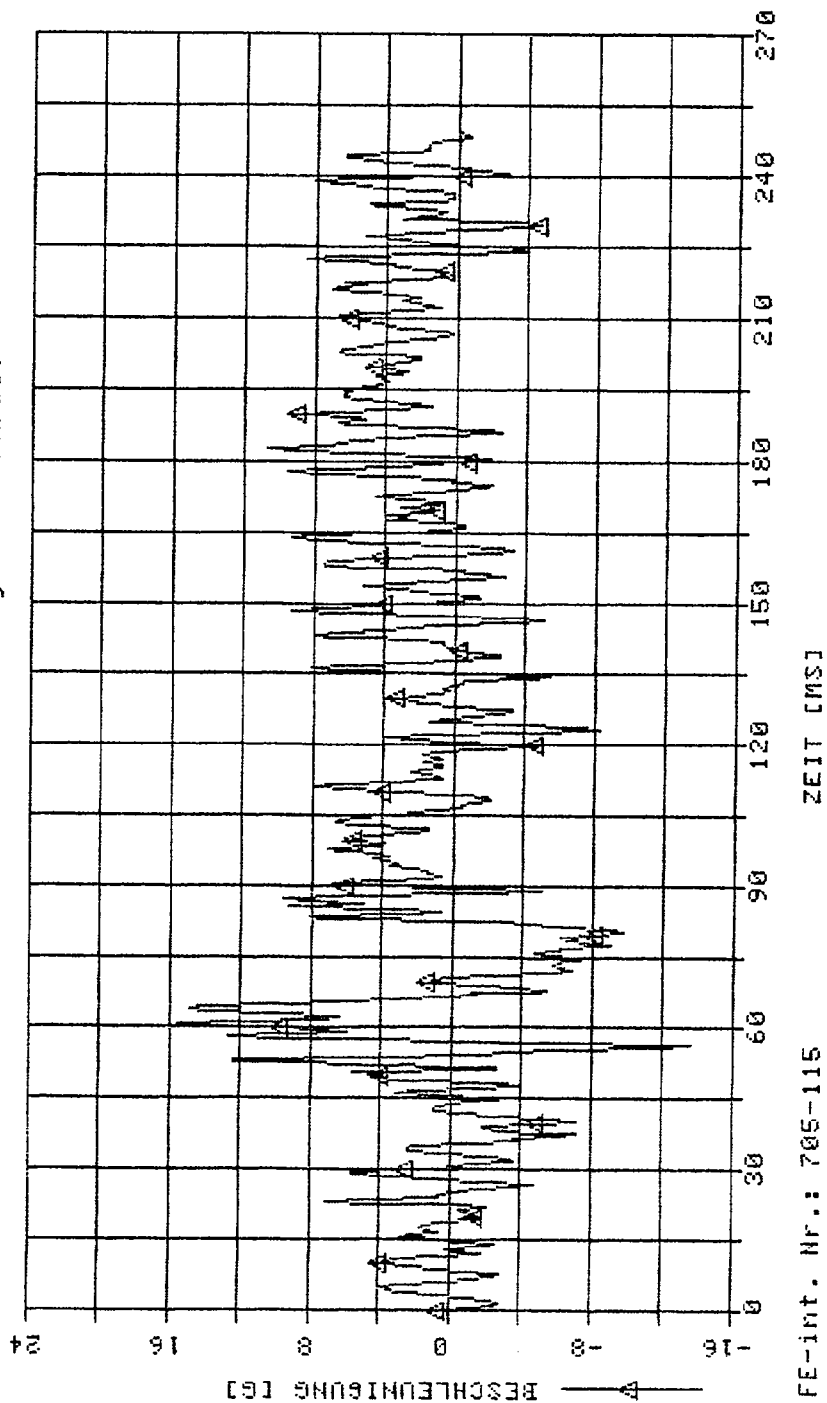
Auftrags-Nr.: FA70510 9983 Fahrg.-Nr.: RABBIT



- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9983

Mess-Stelle	UP	ber.	Extremum	t	3MS
T001Z	V1	BE g	15.534	61.00	12.74

Auftrags-Nr.: FA70510 9983 Fahrg.-Nr.: RABBIT

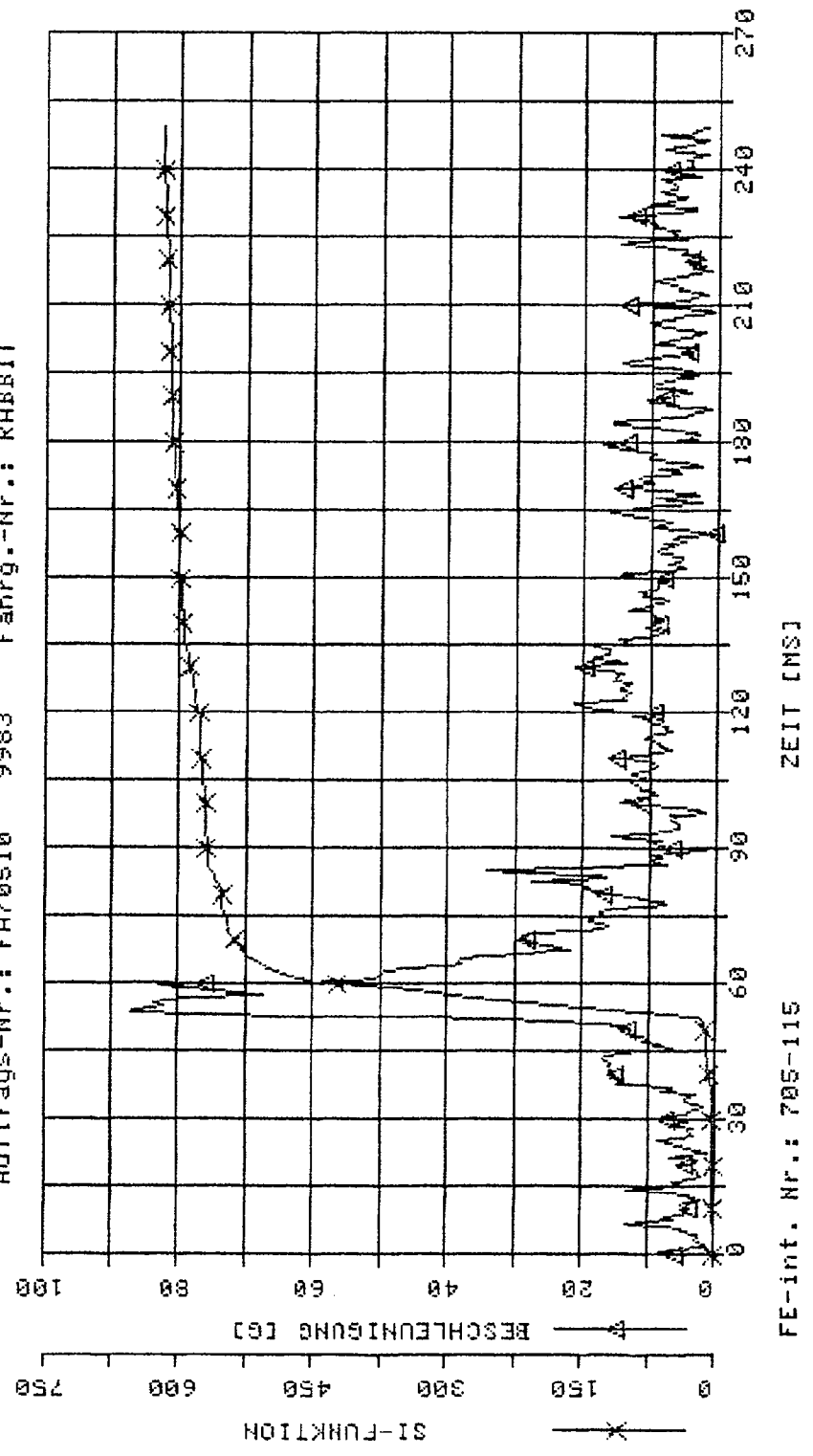


VI 10012

- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9983

Mess-Stelle	UP	ber.	Extremum	t	3MS
TU01	V1	BE g	86.942	54.00	81.31
TU01	V1	SI	617.604	250.00	0.00

Auftrags-Nr.: FA70510 9983 Fahrg.-Nr.: RABBIT



- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9983

Mess-Stelle

3MS

t

UP ber.

Extremum

Extr.

TU01X

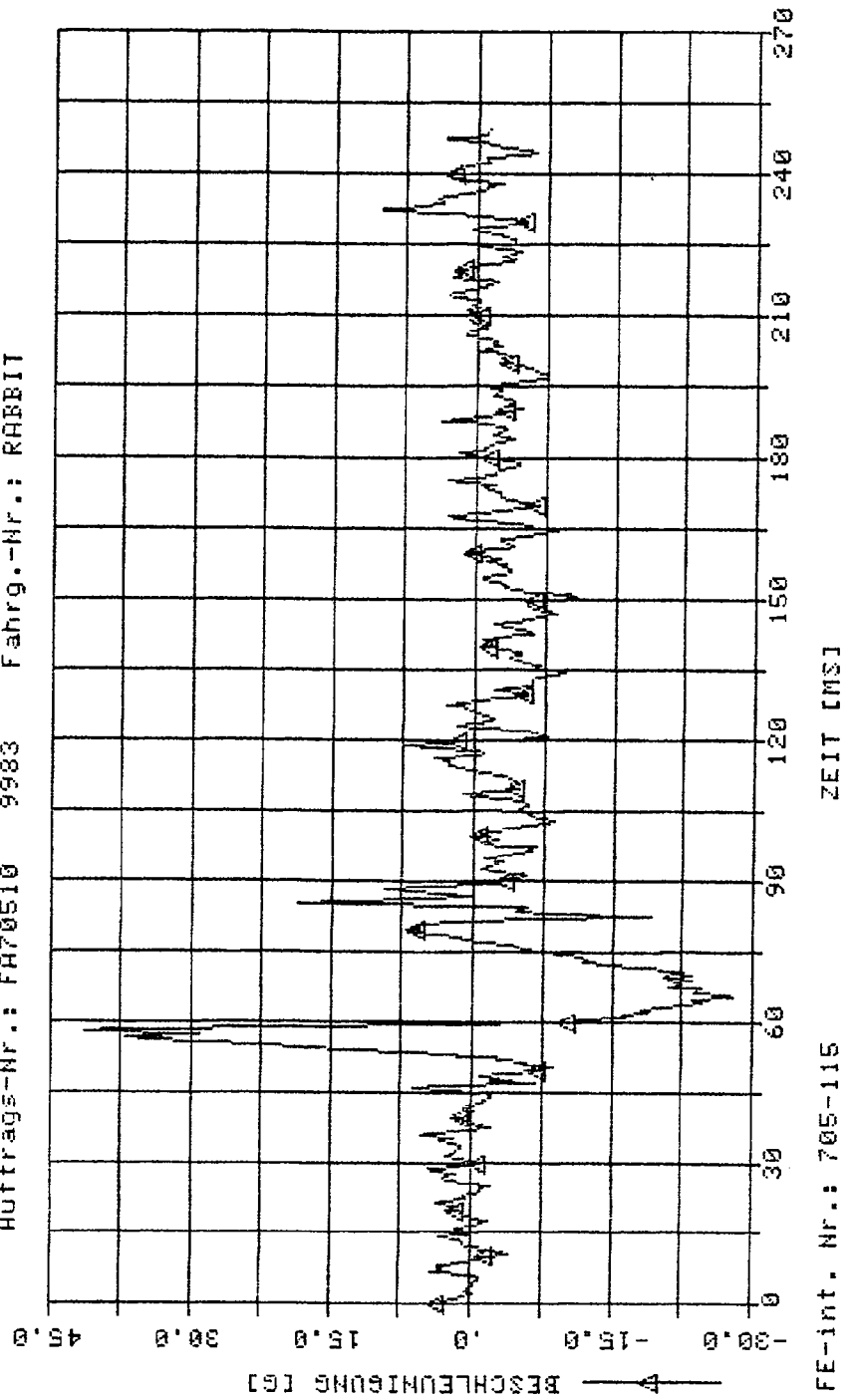
V1 BE g

41.476

58.00

28.06

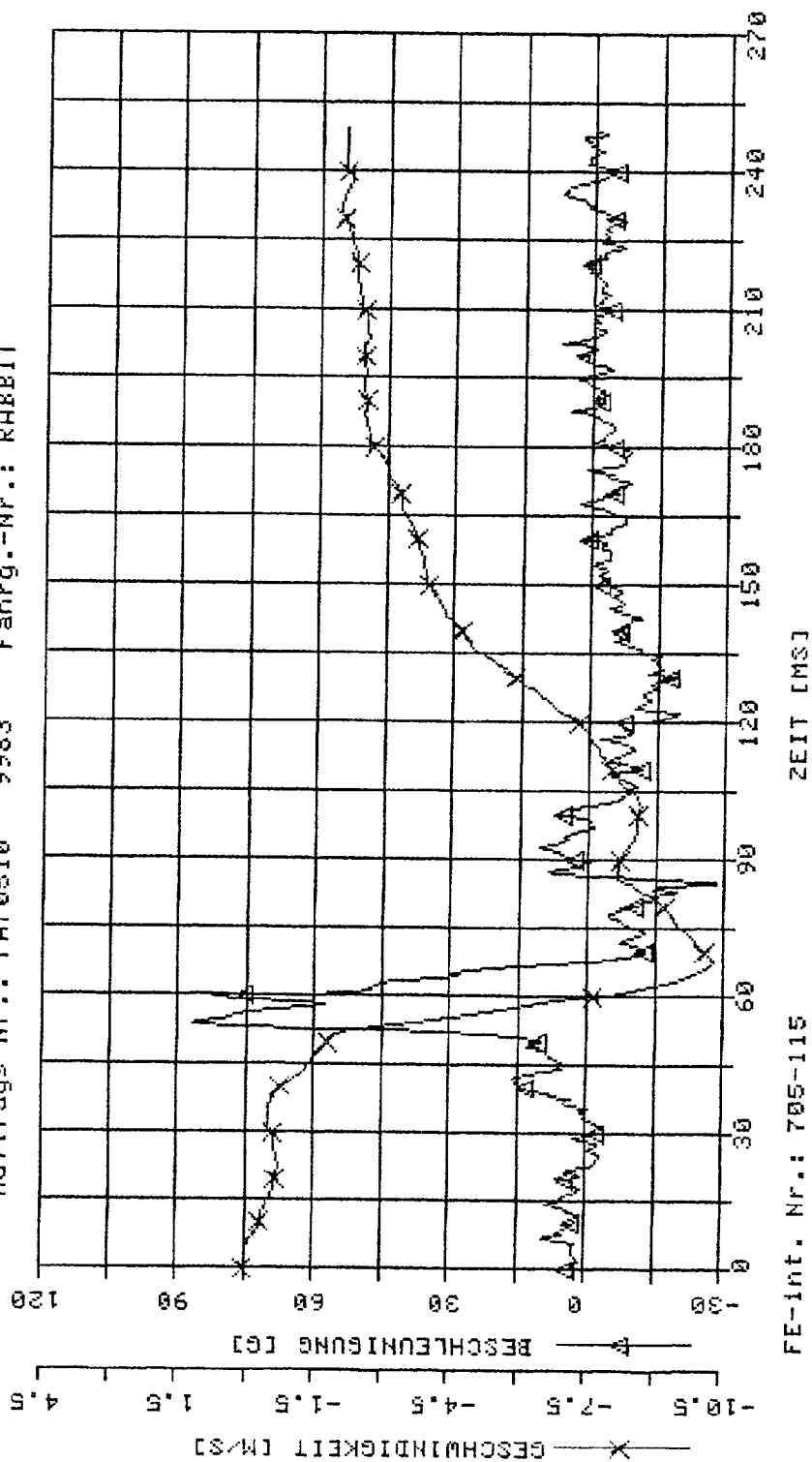
Auftrags-Nr.: FA70510 9983 Fahrg.-Nr.: RABBIT



- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9983

Mess-Stelle	UP	ber.	Groesse	Extremum	t	3MS
TU01Y	V1	BE	g	86.489	54.00	76.92
TU01Y	V1	GE	m/s	-10.292	67.50	0.00

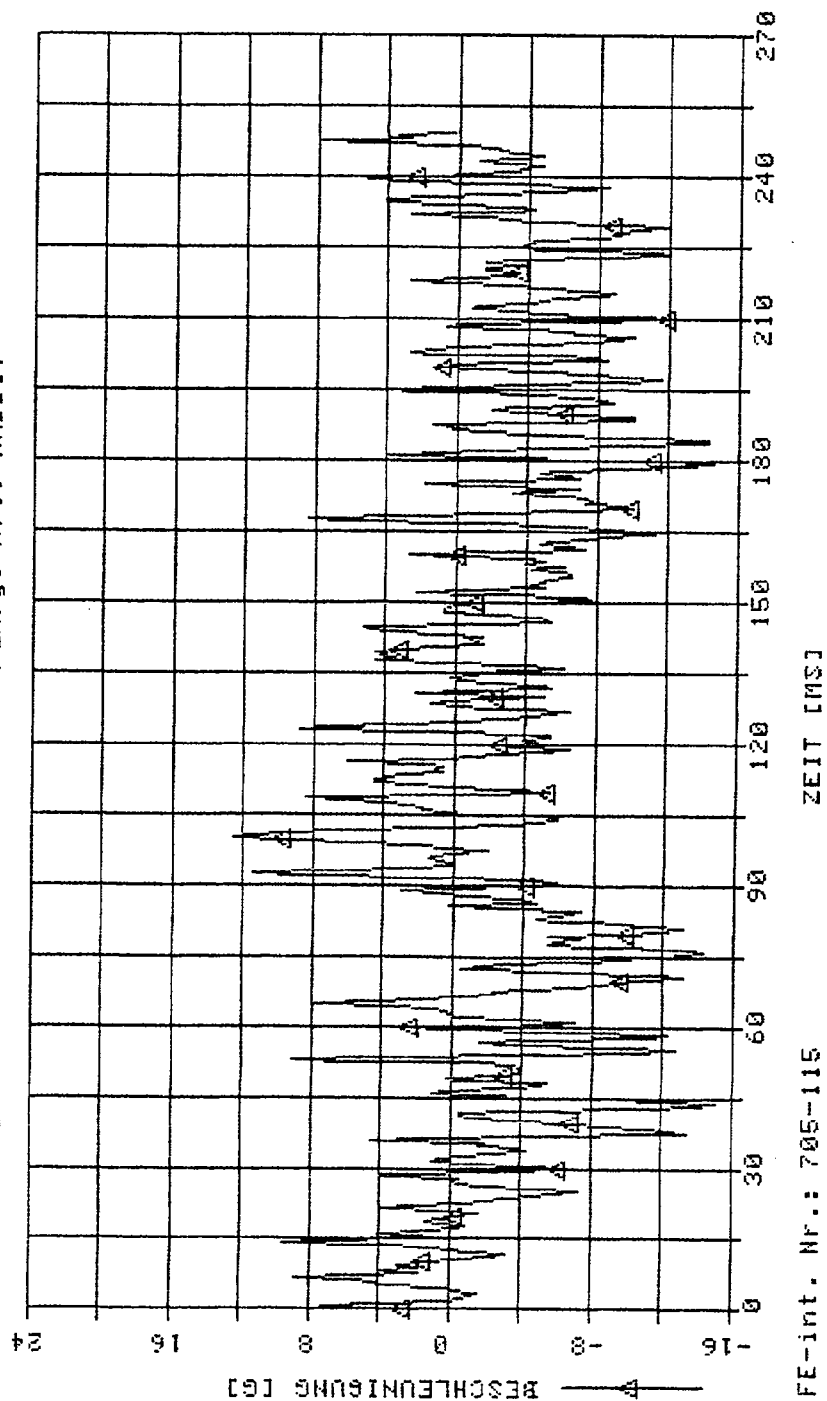
Auftrags-Nr.: FA70510 9983 Fahrg.-Nr.: RABBIT



- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9983

Mess-Stelle	UP	ber.	Extremum	t	3MS
TU01Z	V1	BE	-15.047	44.00	13.90

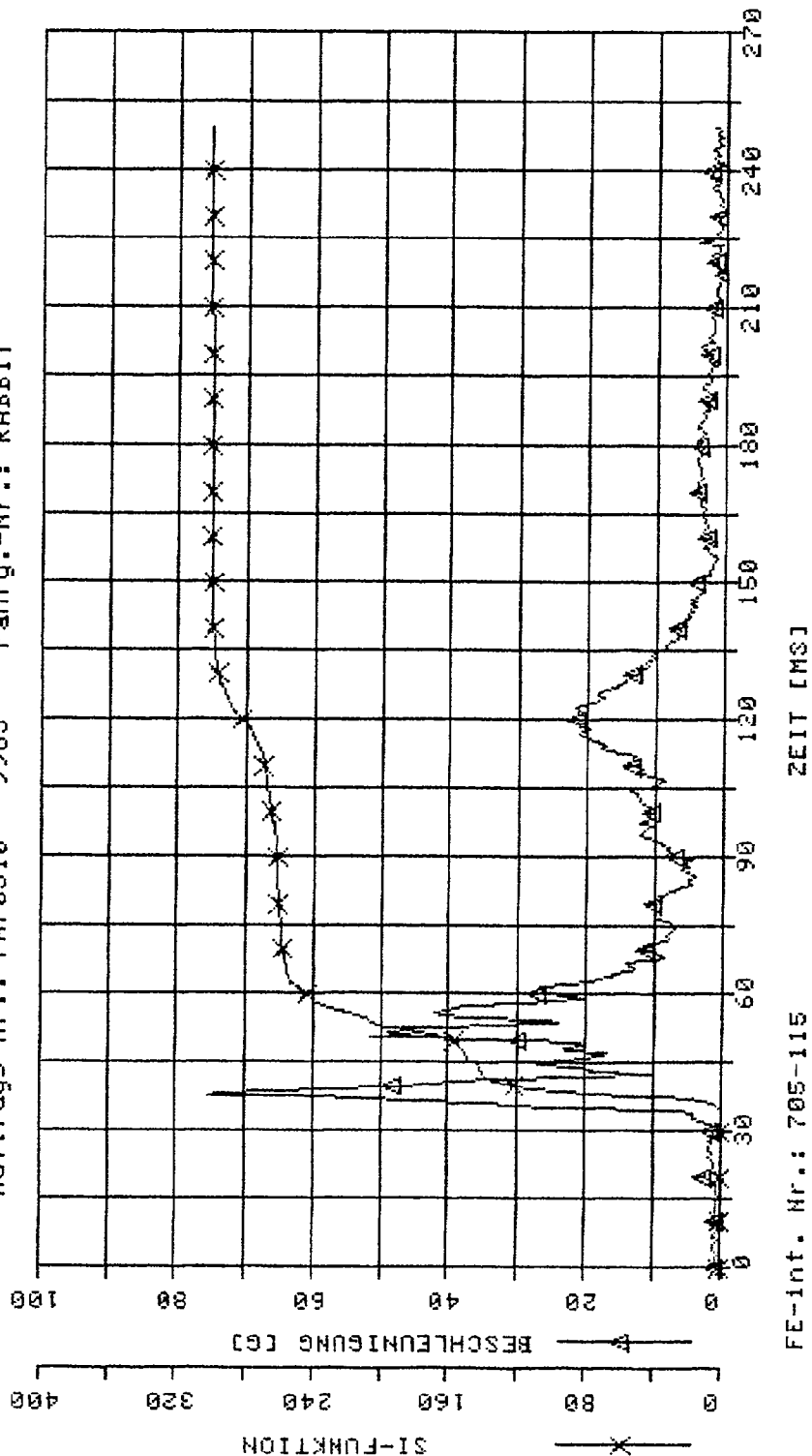
Auftrags-Nr.: FA70510 9983 Fahrg.-Nr.: RABBIT



- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9983

Mess-Stelle	UP	ber.	Groesse	Extremum	t	3MS
BE01	V1	BE	g	75.077	39.00	51.48
BE01	V1	SI		300.380	250.00	0.00

Auftrags-Nr.: FA70510 9983 Fahrg.-Nr.: RABBIT

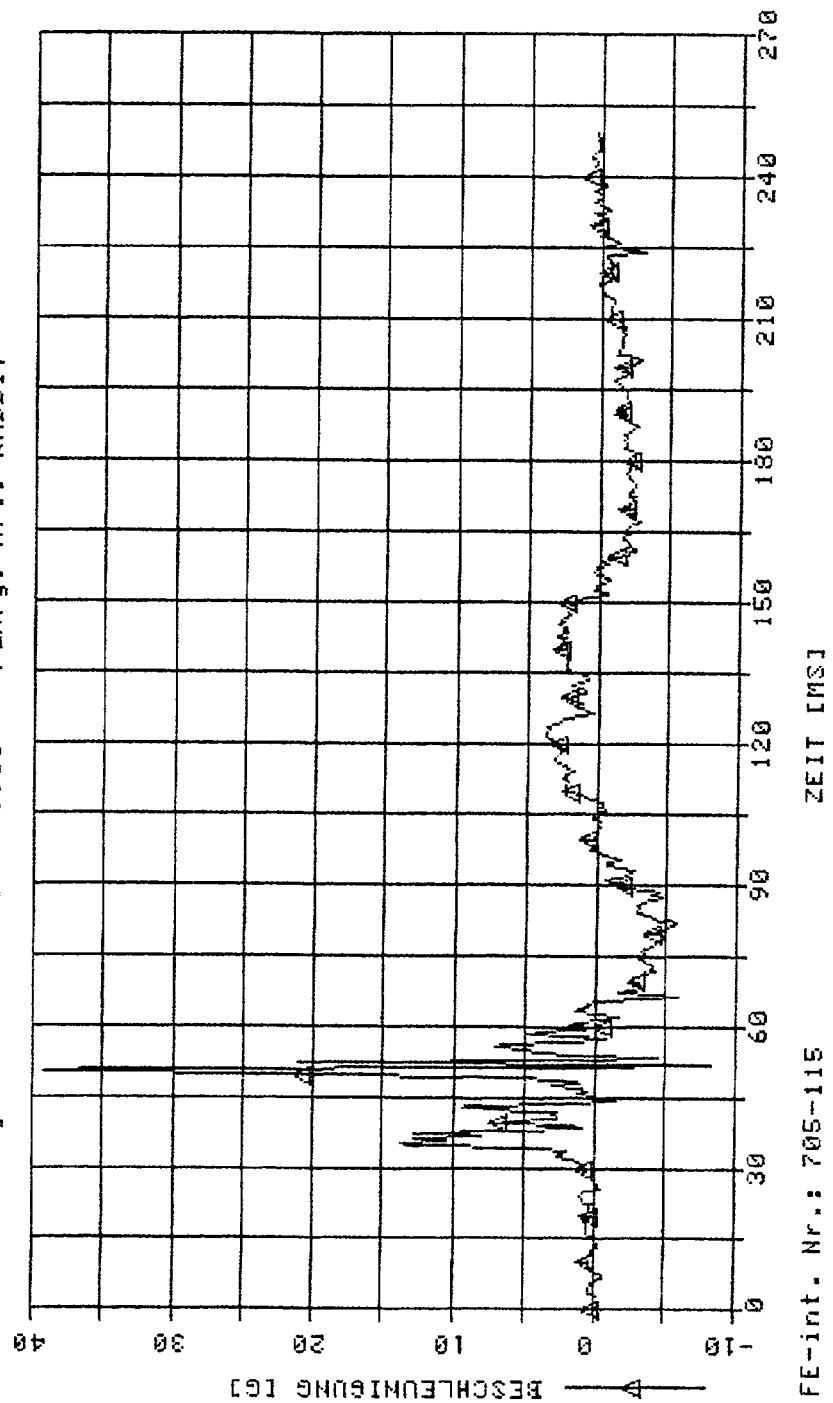


FE-Int. Nr.: 705-115

- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9983

Mess-Stelle	UP	ber.	Extremum	t
BE01X	V1	BE g	39.306	50.50
				13.09

Auftrags-Nr.: FA70510 9983 Fahrg.-Nr.: R08BIT



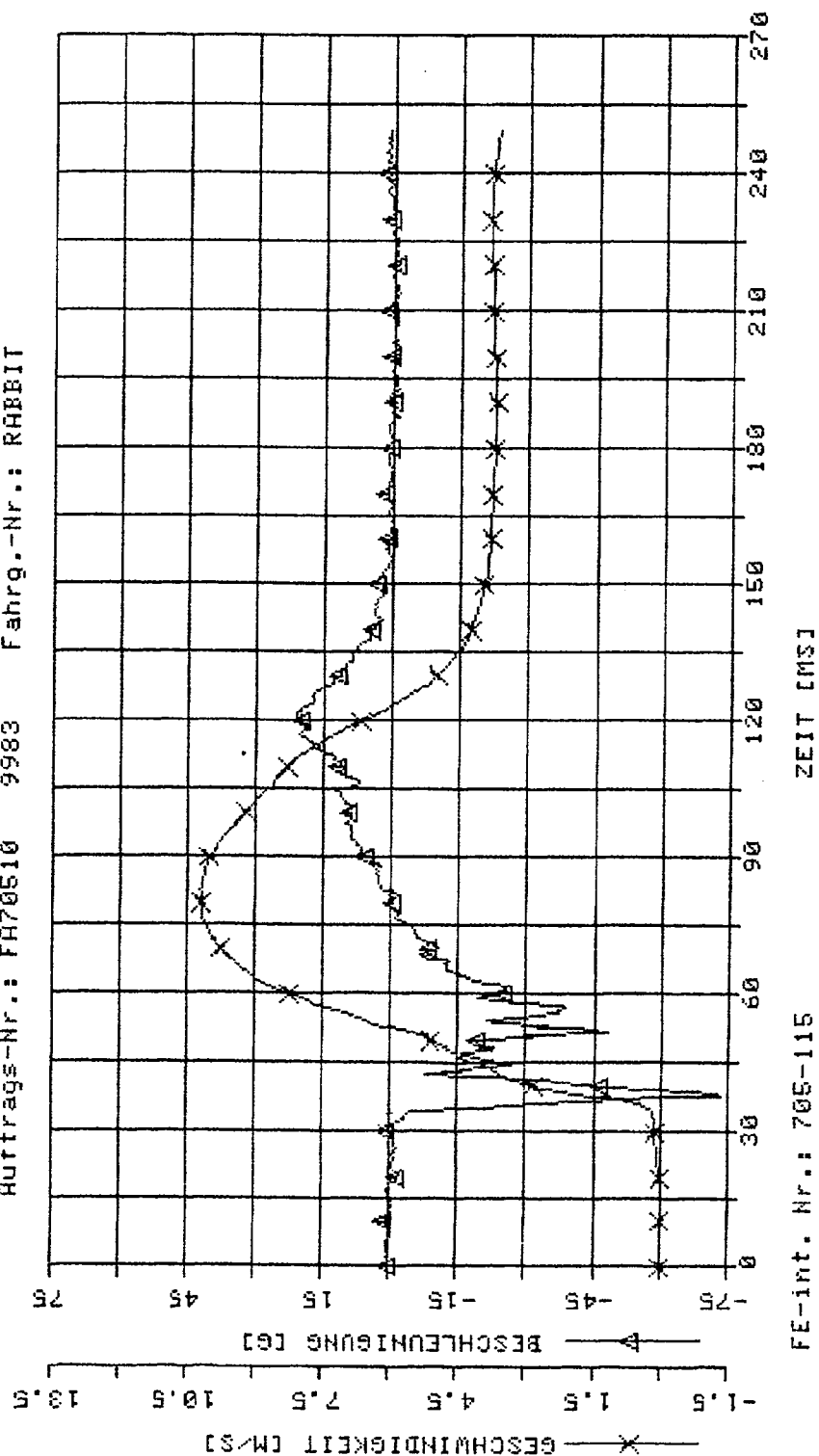
V1 BE01X

FE-int. Nr.: 705-115

- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9983

Mess-Stelle	UP	ber.	Groesse	Extremum	t	3MS
BE01Y	V1	BE	g	-73.613	38.00	48.29
BE01Y	V1	GE	m/s	10.193	82.50	0.00

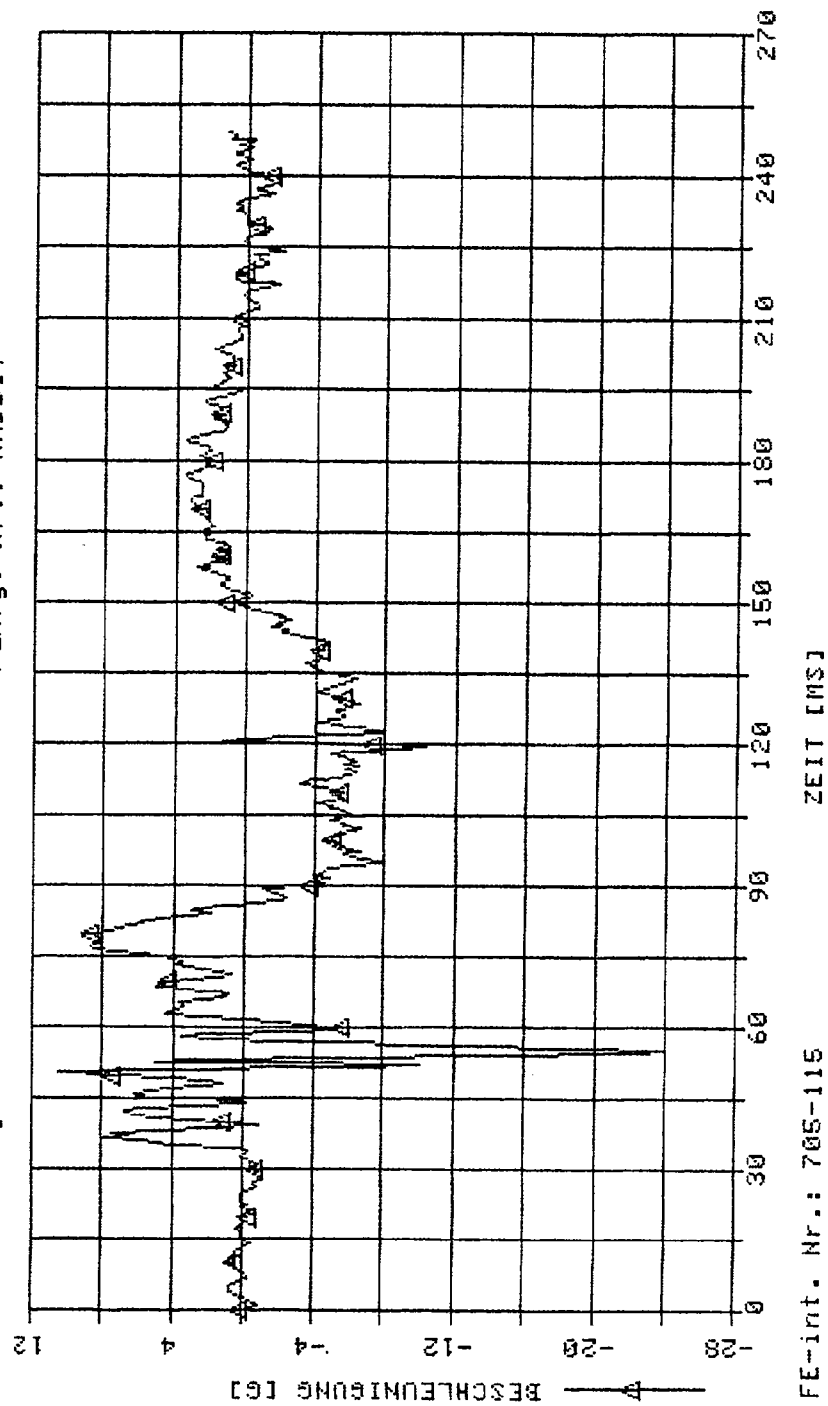
Auftrags-Nr.: FA70510 9983 Fahrg.-Nr.: RABBIT



- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9983

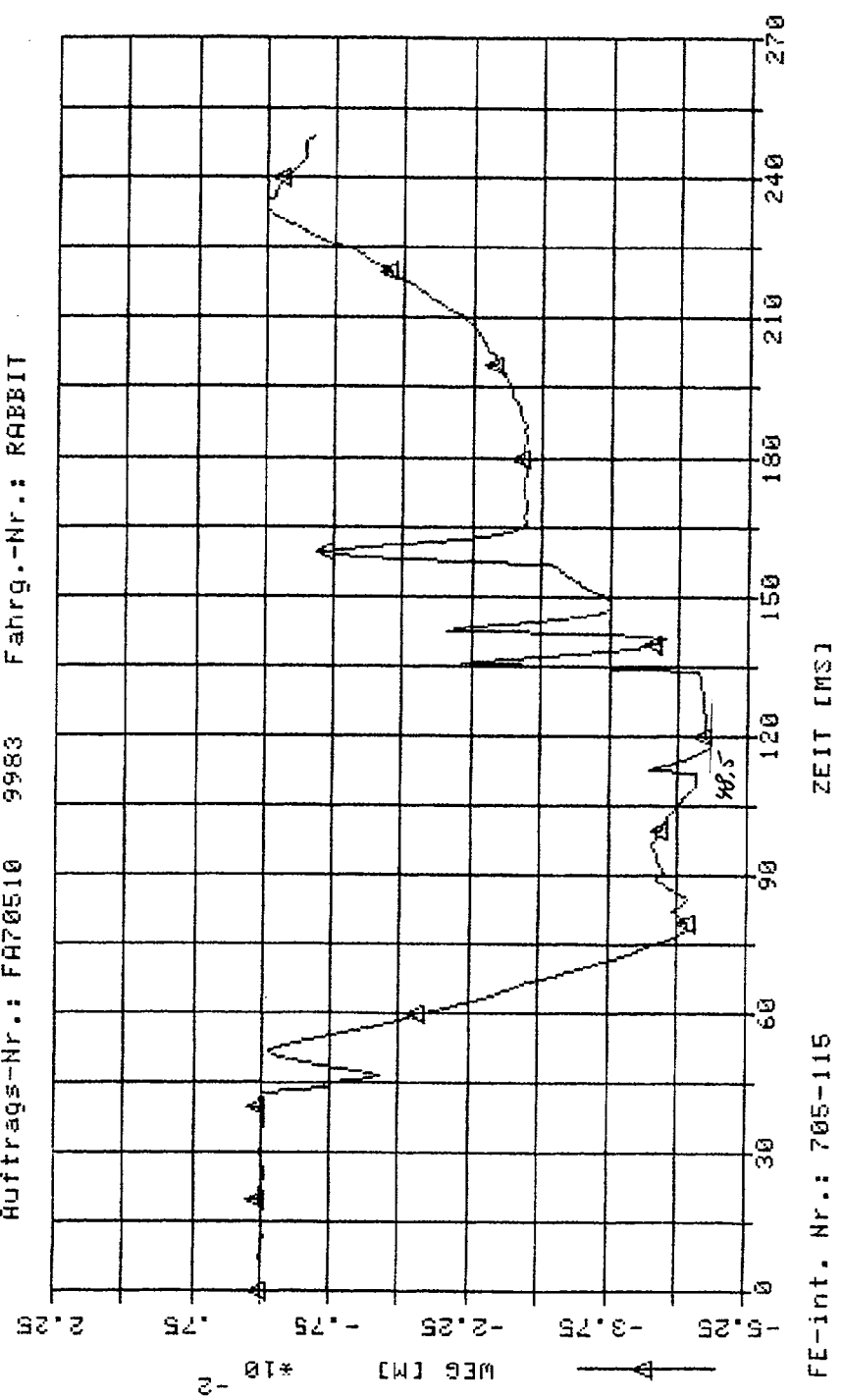
Mess-Stelle UP ber. Extremum t 3MS
BE01Z V1 BE g -24.044 55.50 10.33

Auftrags-Nr.: FA70510 9983 Fahrg.-Nr.: RABBIT



↑ V1 BE01Z

Auftrags-Nr.: FA70510 9983 Fahrg.-Nr.: RABBIT



VI WE01

- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9983

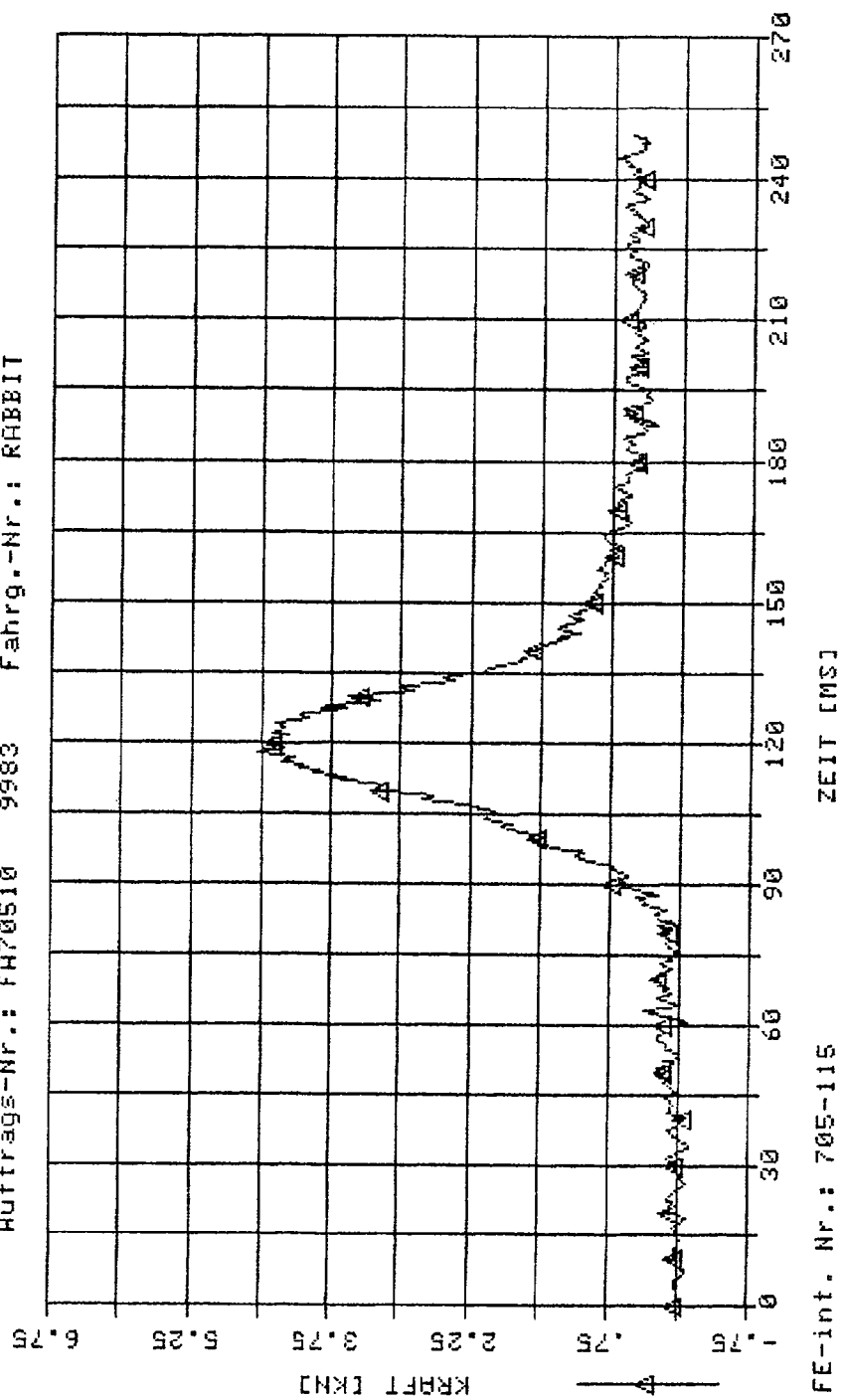
Mess-Stelle

UP ber. Extremum t 3MS

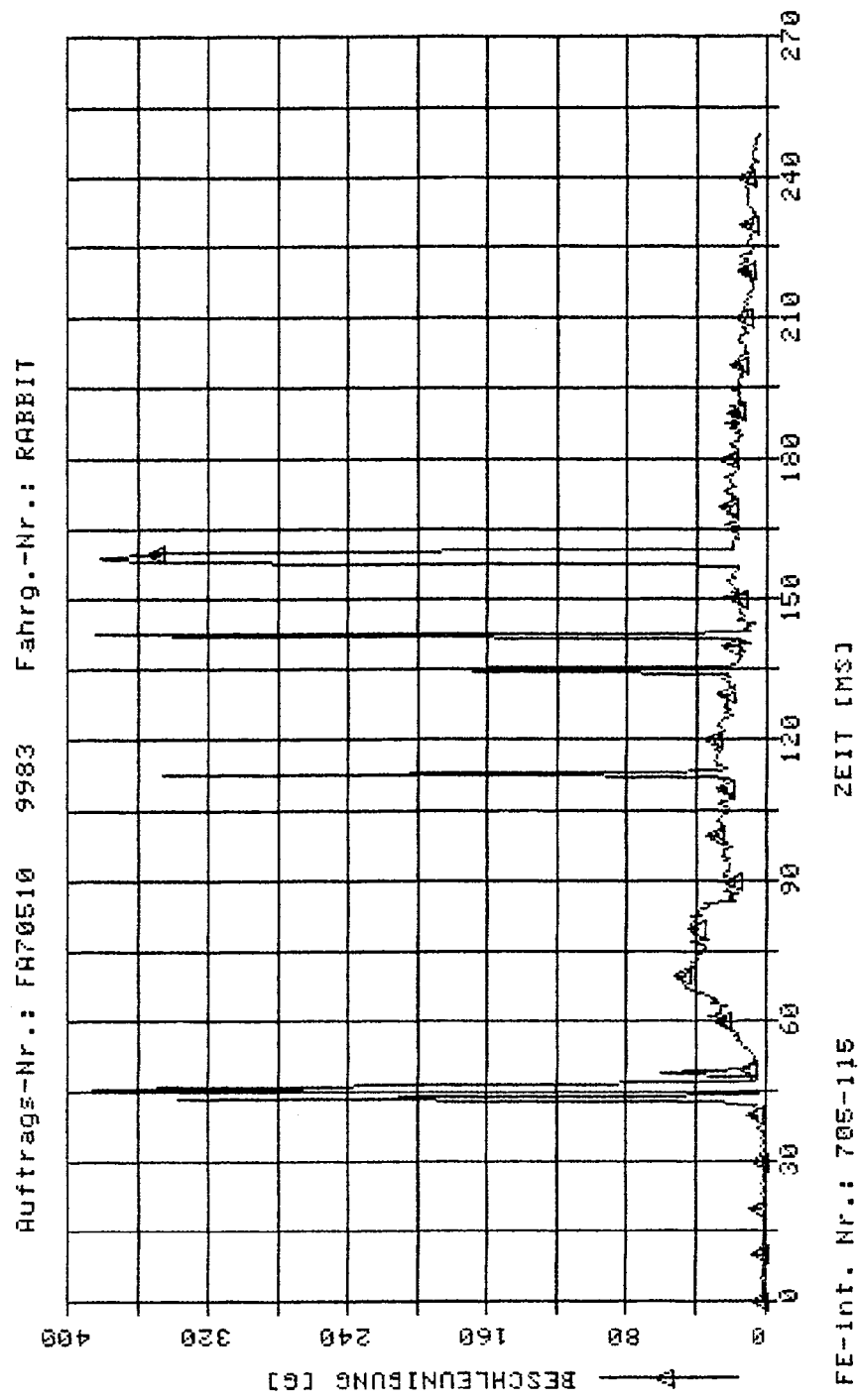
Groesse Extr.

GU015A V1 KR KN 4.544 118.00 0.00

Auftrags-Nr.: FA70510 9983 Fahrg.-Nr.: RABBIT

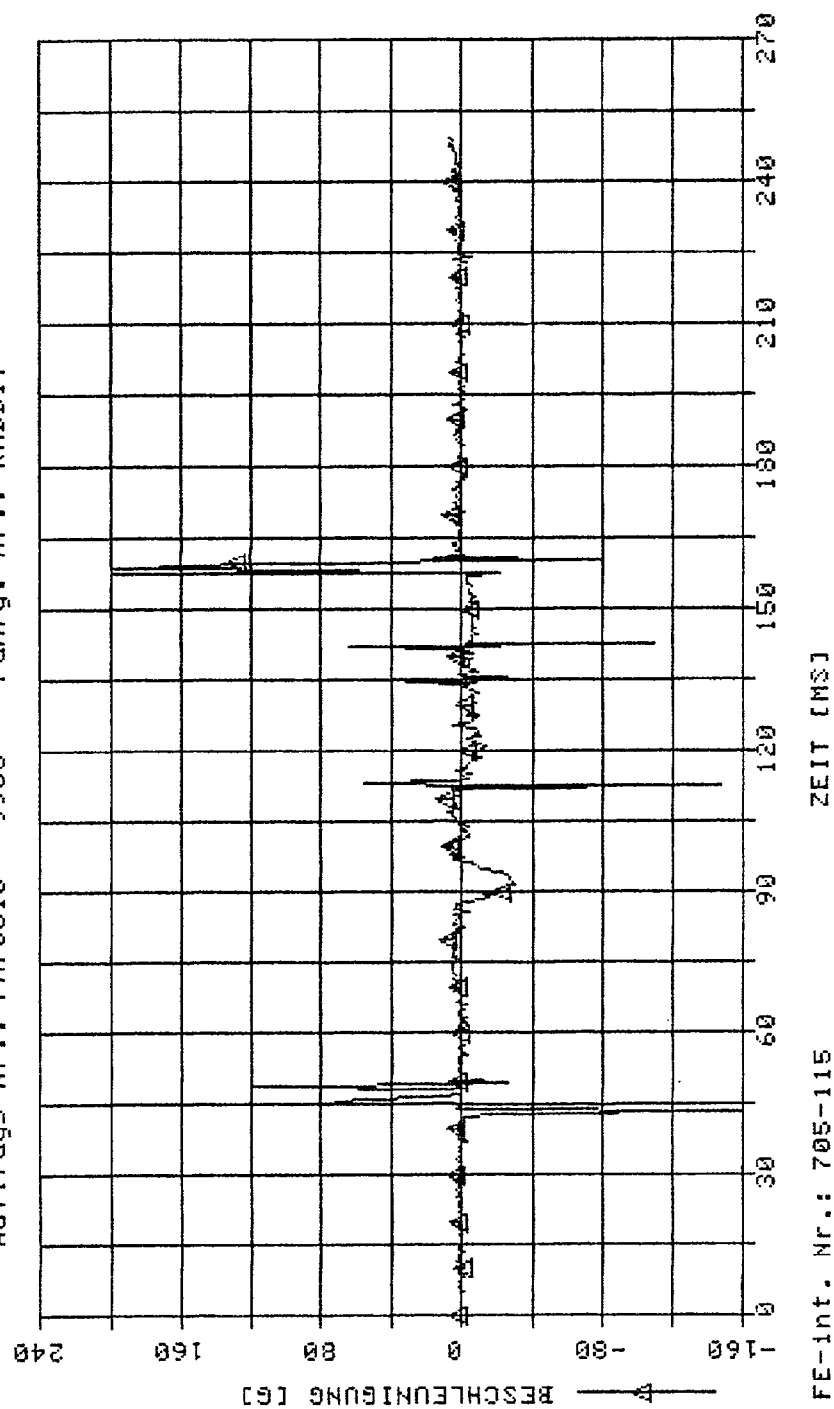


B.2.2 Rear Passenger

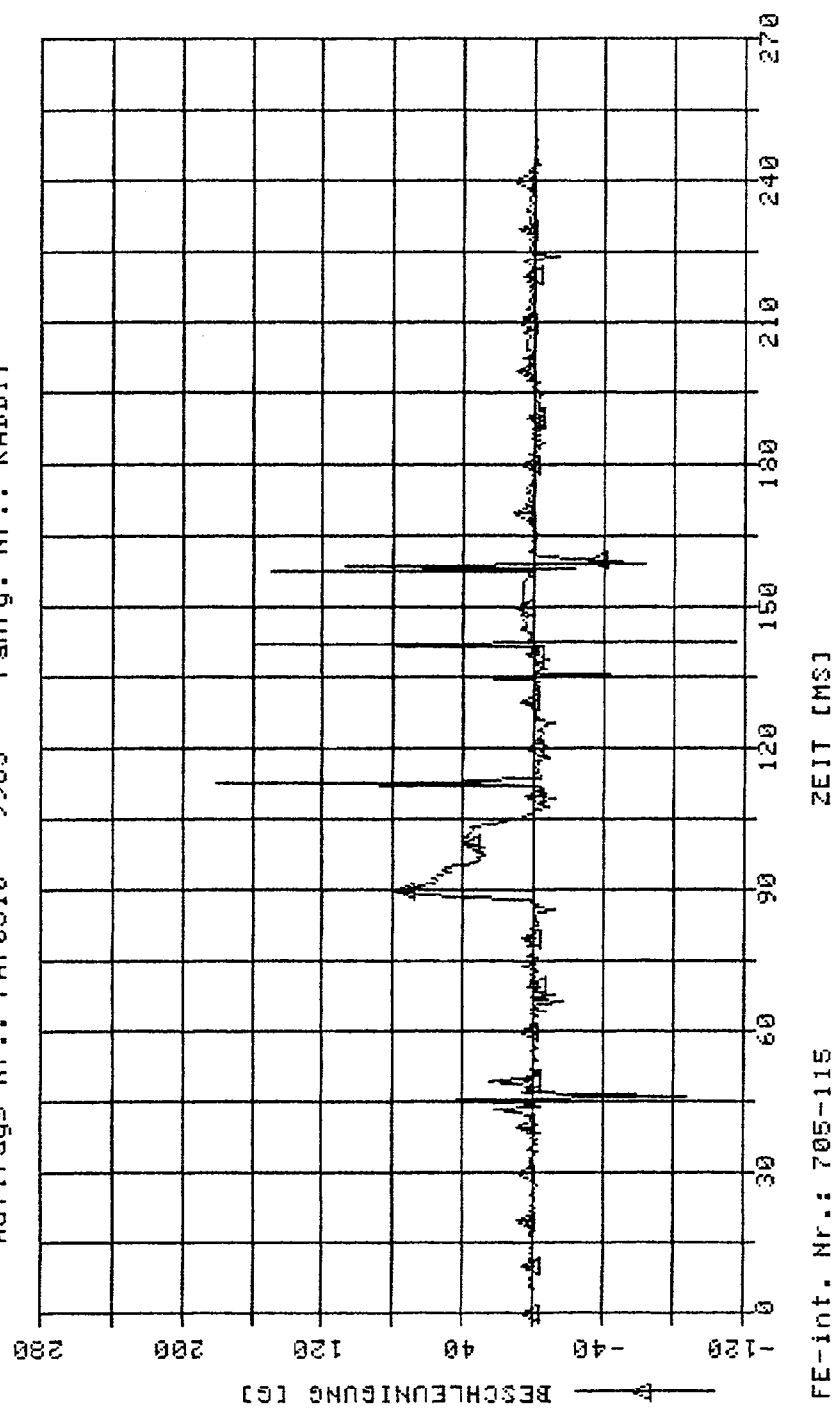


4 VI KOÖIX Y Z

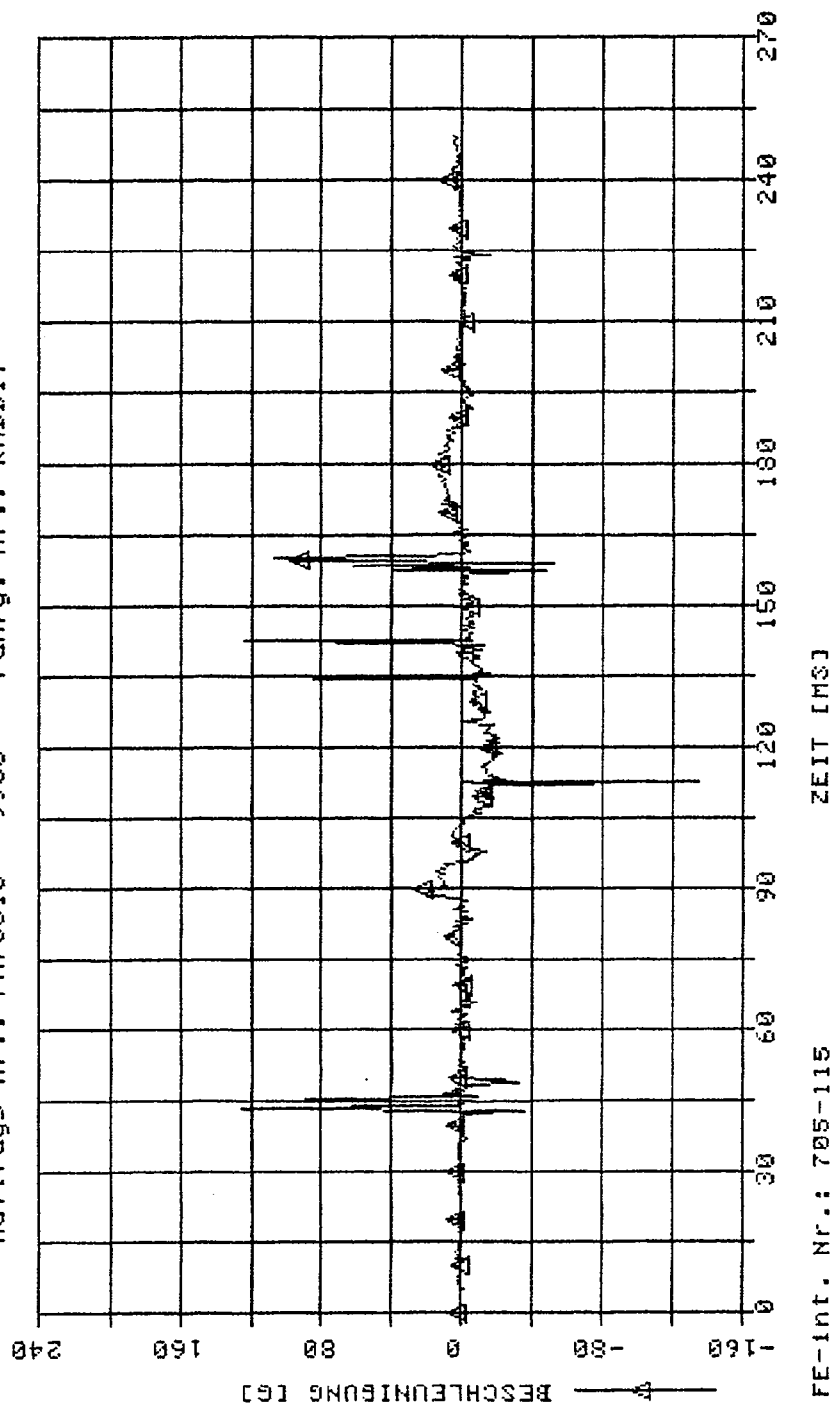
Auftrags-Nr.: FA70510 9983 Fahrg.-Nr.: RABBIT



Auftrags-Nr.: FA70510 9983 Fahrg.-Nr.: RABBIT



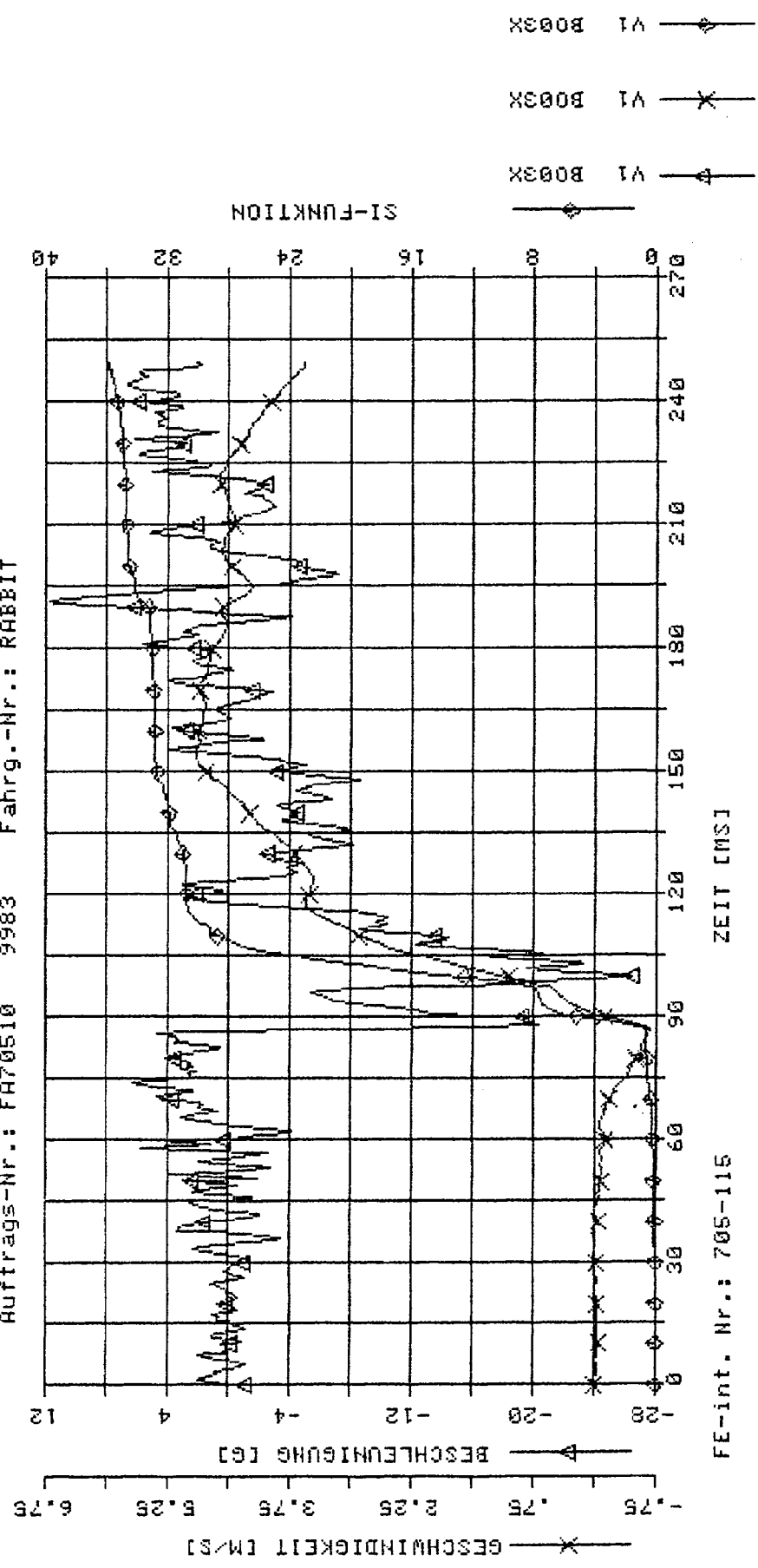
Auftrags-Nr.: FA70510 9983 Fahrg.-Nr.: RABBIT



- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9983

Mess-Stelle	UP	ber.	Extremum	t	3MS
		Groesse		Extr.	
B003X	V1	BE g	-26.542	100.00	21.36
B003X	V1	GE m/s	4.905	154.50	0.00
B003X	V1	SI	35.779	250.00	0.00

Auftrags-Nr.: FA70510 9983 Fahrg.-Nr.: RABBIT

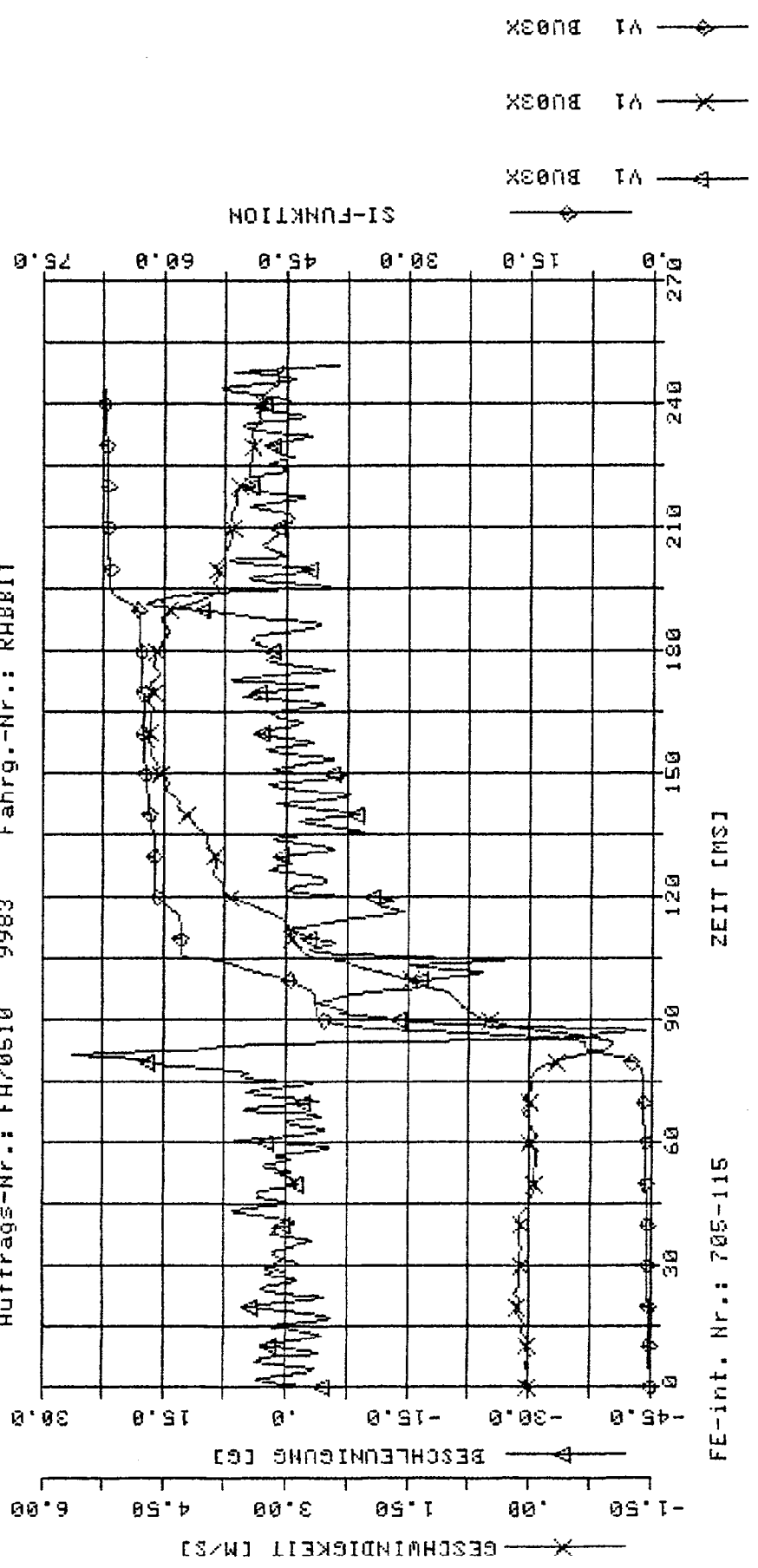


FE-int. Nr.: 705-115

- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9983

Mess-Stelle	UP	ber.	Extremum	t	3MS
BU03X	V1	BE	-44.280	87.50	29.40
BU03X	V1	GE	4.688	159.00	0.00
BU03X	V1	SI	67.533	250.00	0.00

Auftrags-Nr.: FA70510 9983 Fahrg.-Nr.: RABBIT

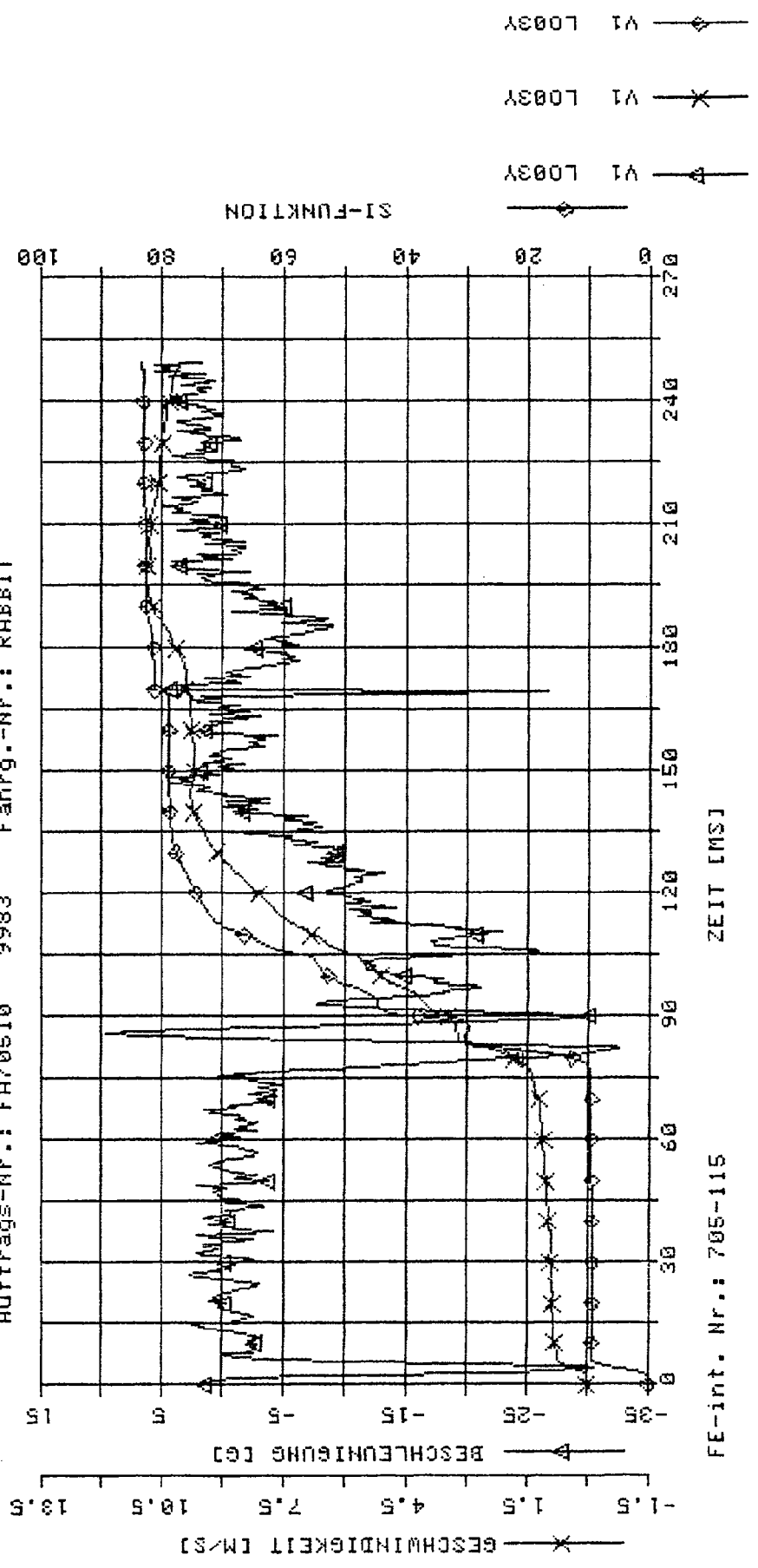


FE-int. Nr.: 705-115

- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9983

Mess-Stelle	UP	ber.	Extremum	t	3MS
L003Y	V1	BE g	-32.586	82.00	29.82
L003Y	V1	GE m/s	10.869	196.00	0.00
L003Y	V1	SI	83.009	250.00	0.00

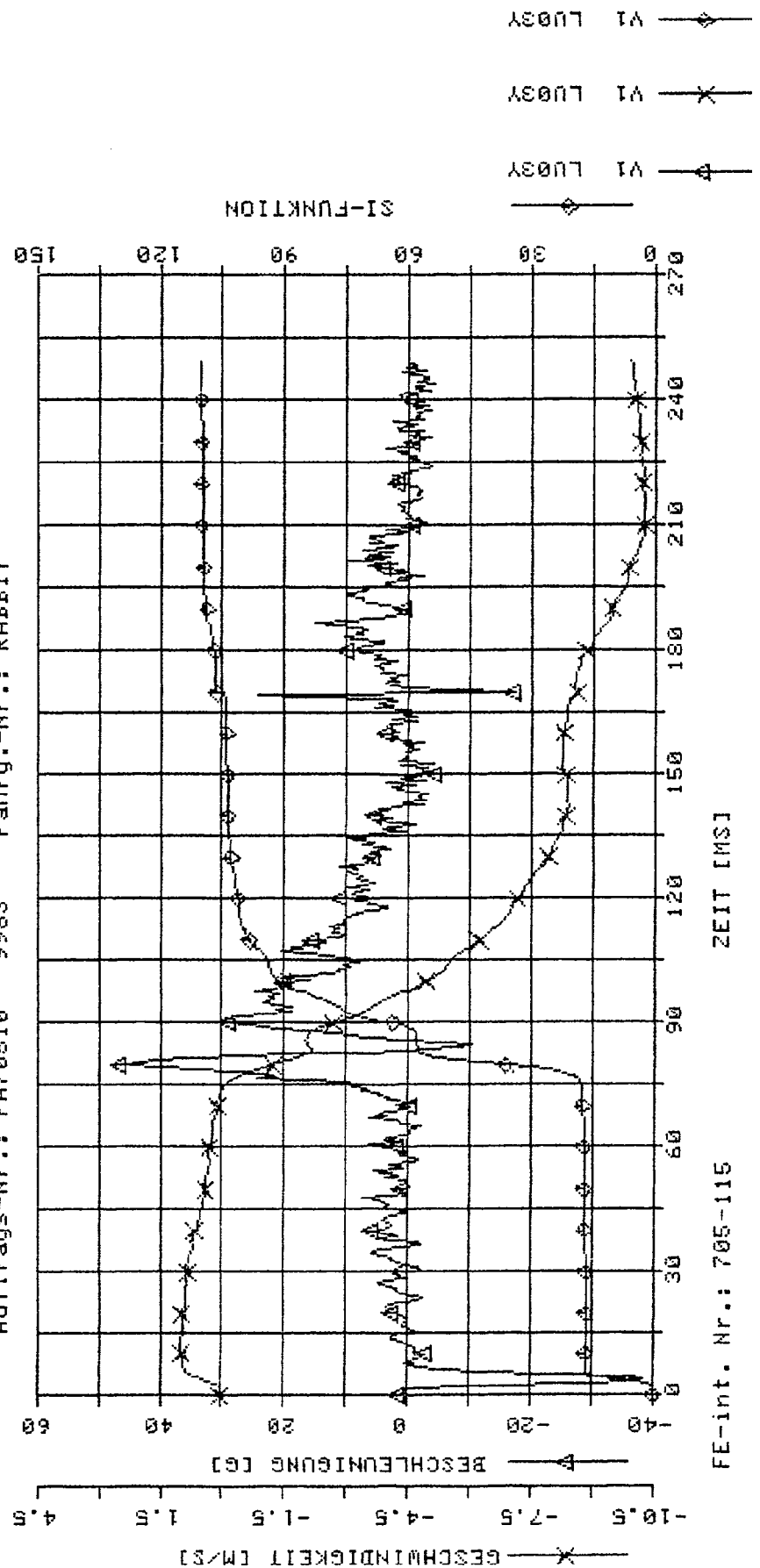
Auftrags-Nr.: FA70510 9983 Fahrg.-Nr.: RABBIT



- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9983

Mess-Stelle	UP	ber. Groesse	Extremum	t Extr.	3MS
LU03Y	V1	BE g	46.269	80.00	34.45
LU03Y	V1	GE m/s	-10.279	209.50	0.00
LU03Y	V1	SI	110.041	250.00	0.00

Auftrags-Nr.: FA70510 9983 Fahrg.-Nr.: RABBIT

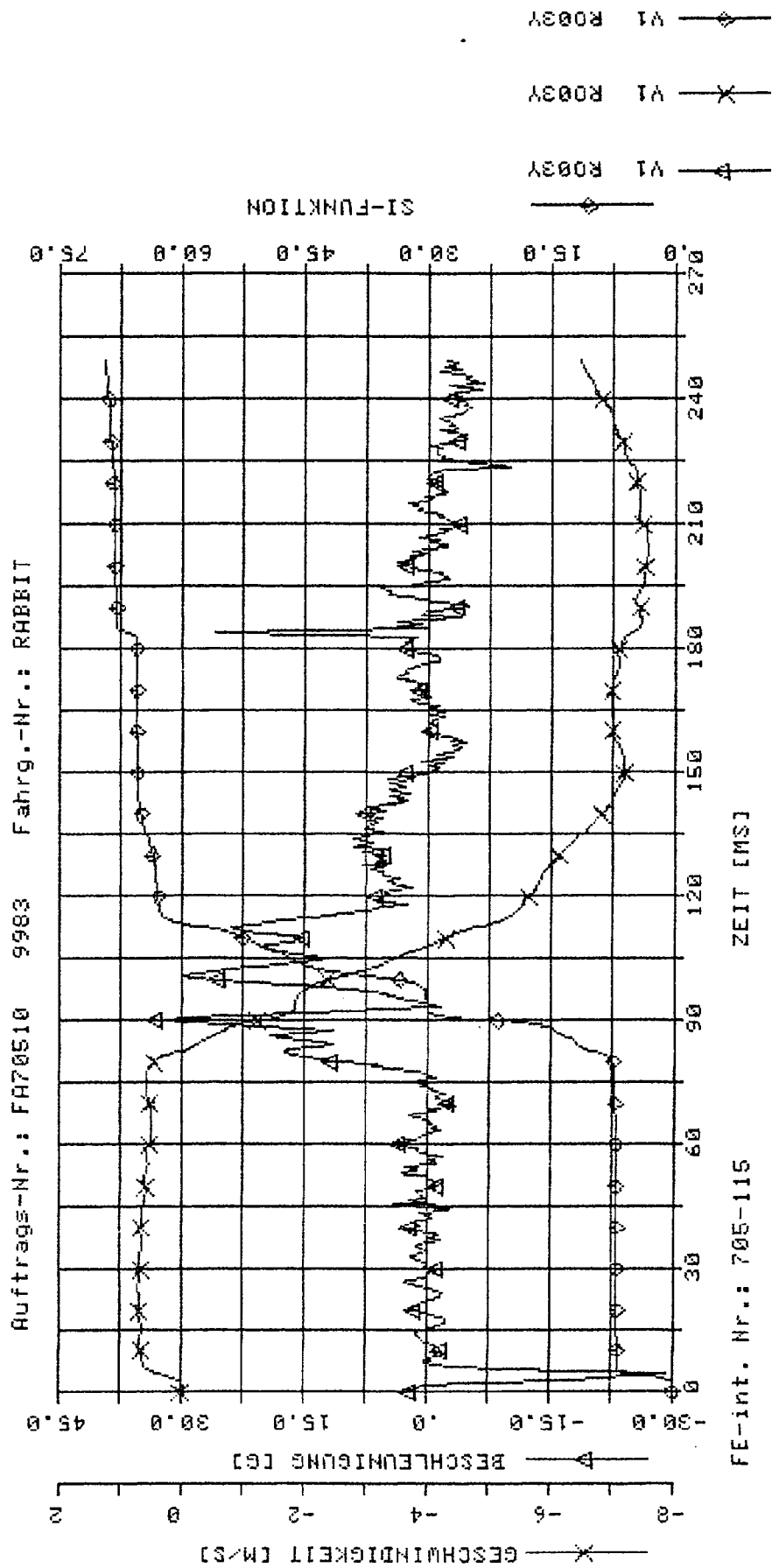


FE-int. Nr.: 705-115

ZEIT [ms]

- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9983

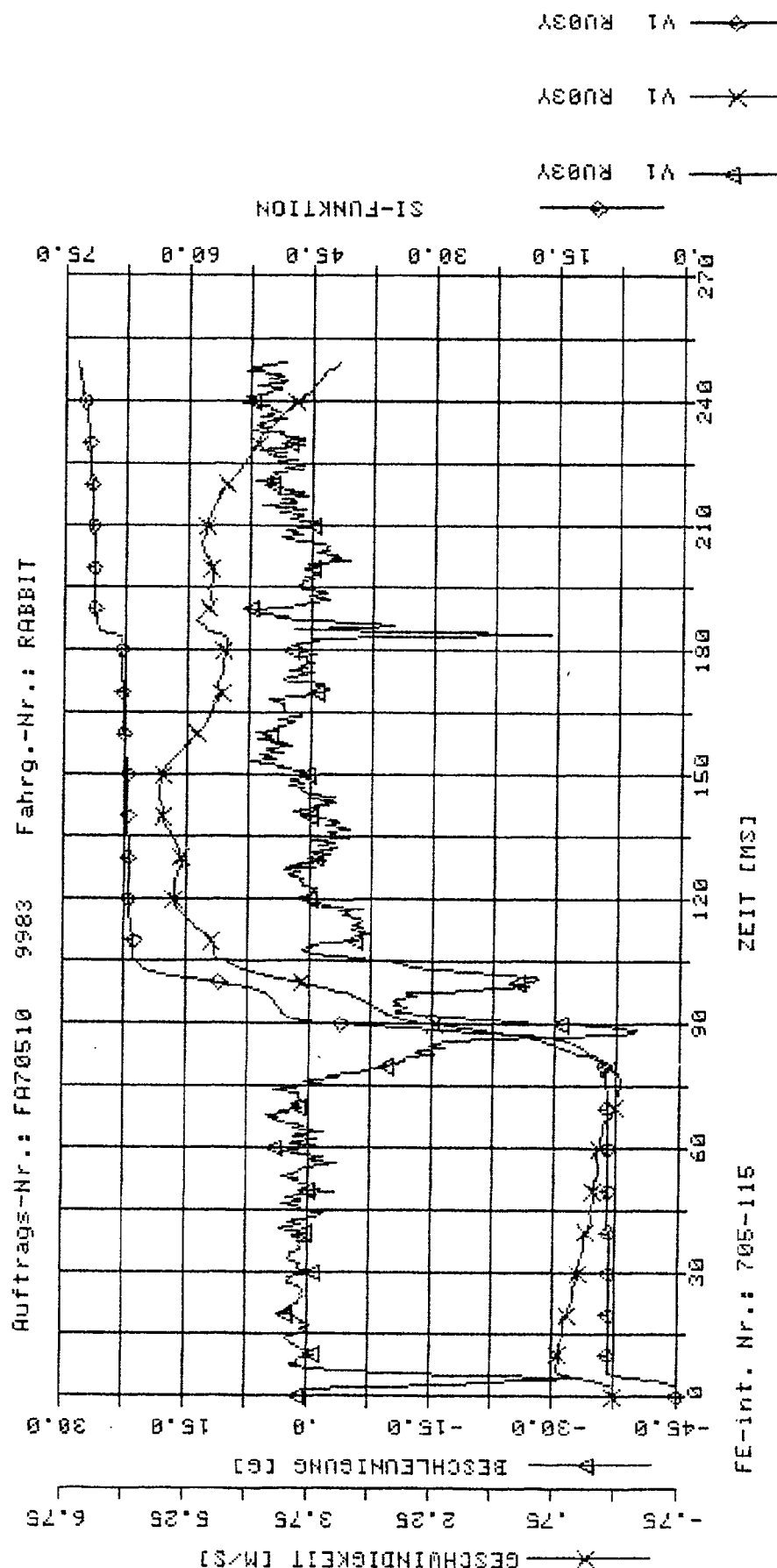
Mess-Stelle	UP	ber.	Extremum	t	3MS
		Groesse		Extr.	
R003Y	V1	BE g	33.040	90.00	28.52
R003Y	V1	GE m/s	-7.584	204.50	0.00
R003Y	V1	SI	69.217	250.00	0.00



FE-int. Nr.: 705-115

- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9983

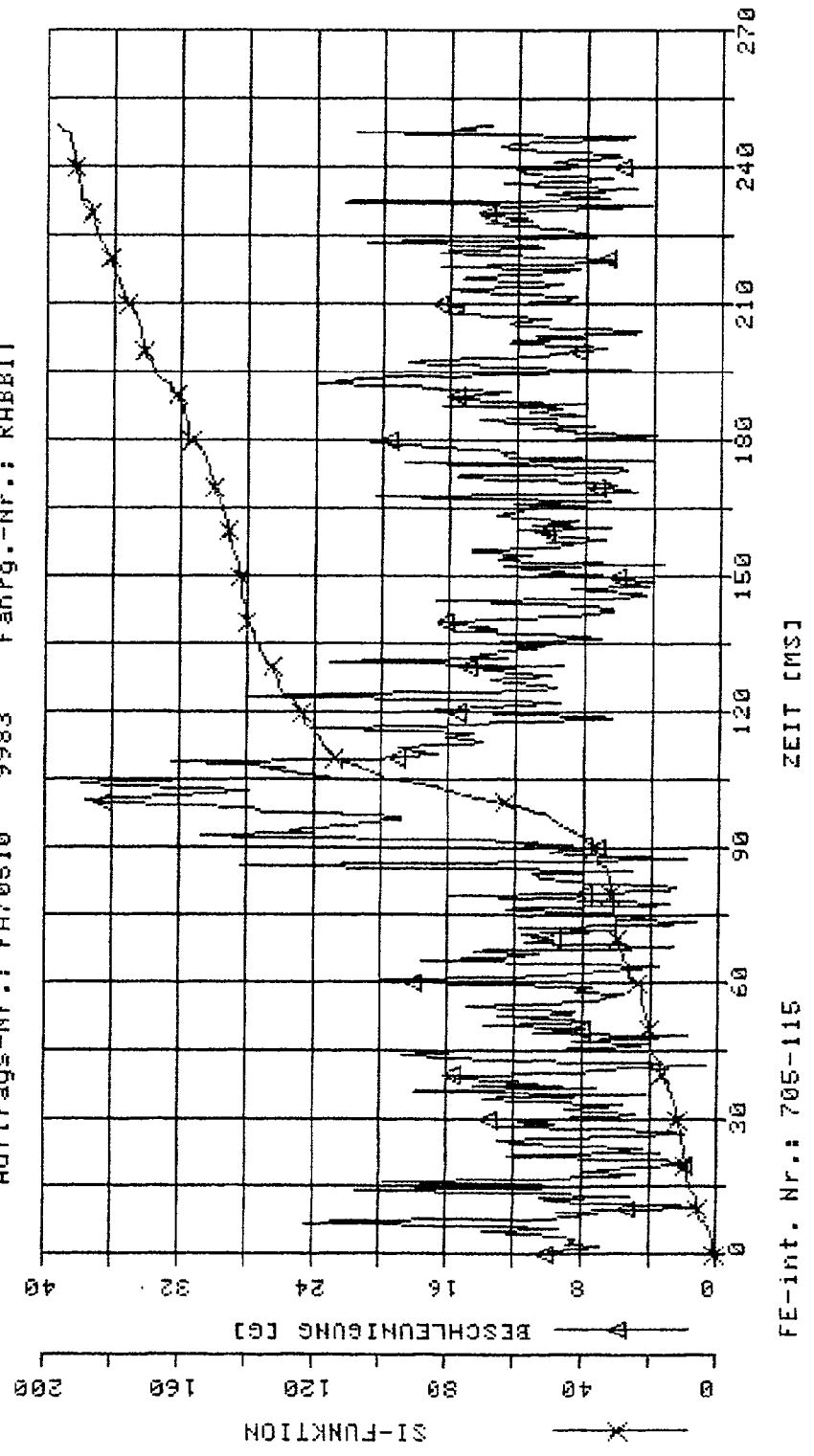
Mess-Stelle	UP	ber. Groesse	Extremum	t Extr.	3MS
RU03Y	V1	BE g	-40.062	88.50	31.18
RU03Y	V1	GE m/s	5.573	145.50	0.00
RU03Y	V1	SI	73.279	250.00	0.00



- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9983

Mess-Stelle	UP	ber.	Groesse	Extremum	t	3MS
T003	V1	BE	g	37.872	104.00	32.45
T003	V1	SI		196.615	250.00	0.00

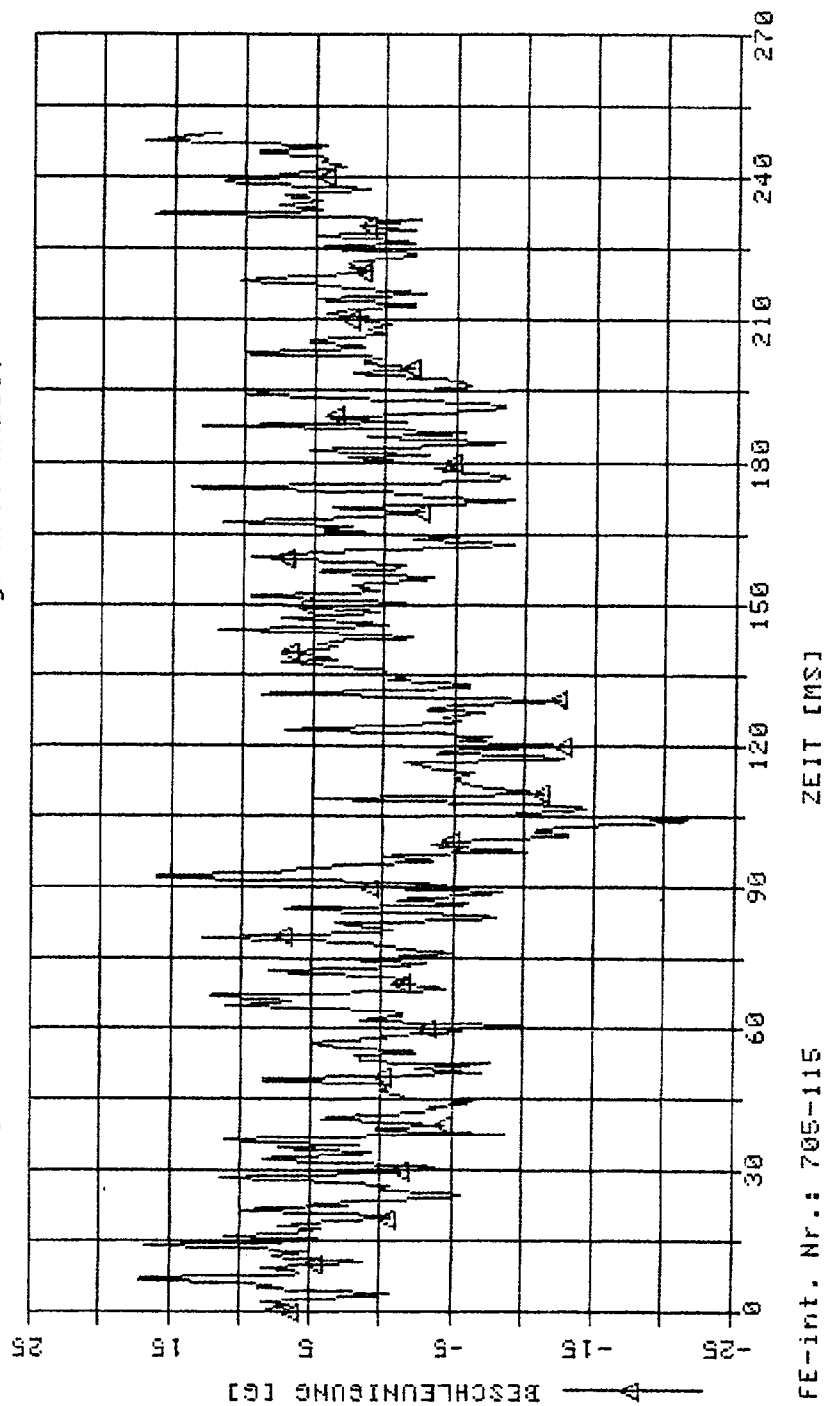
Auftrags-Nr.: FA70510 9983 Fahrg.-Nr.: RABBIT



- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9983

Mess-Stelle UP ber. Extremum t 3MS
TD03X V1 BE g -21.733 104.50 16.40

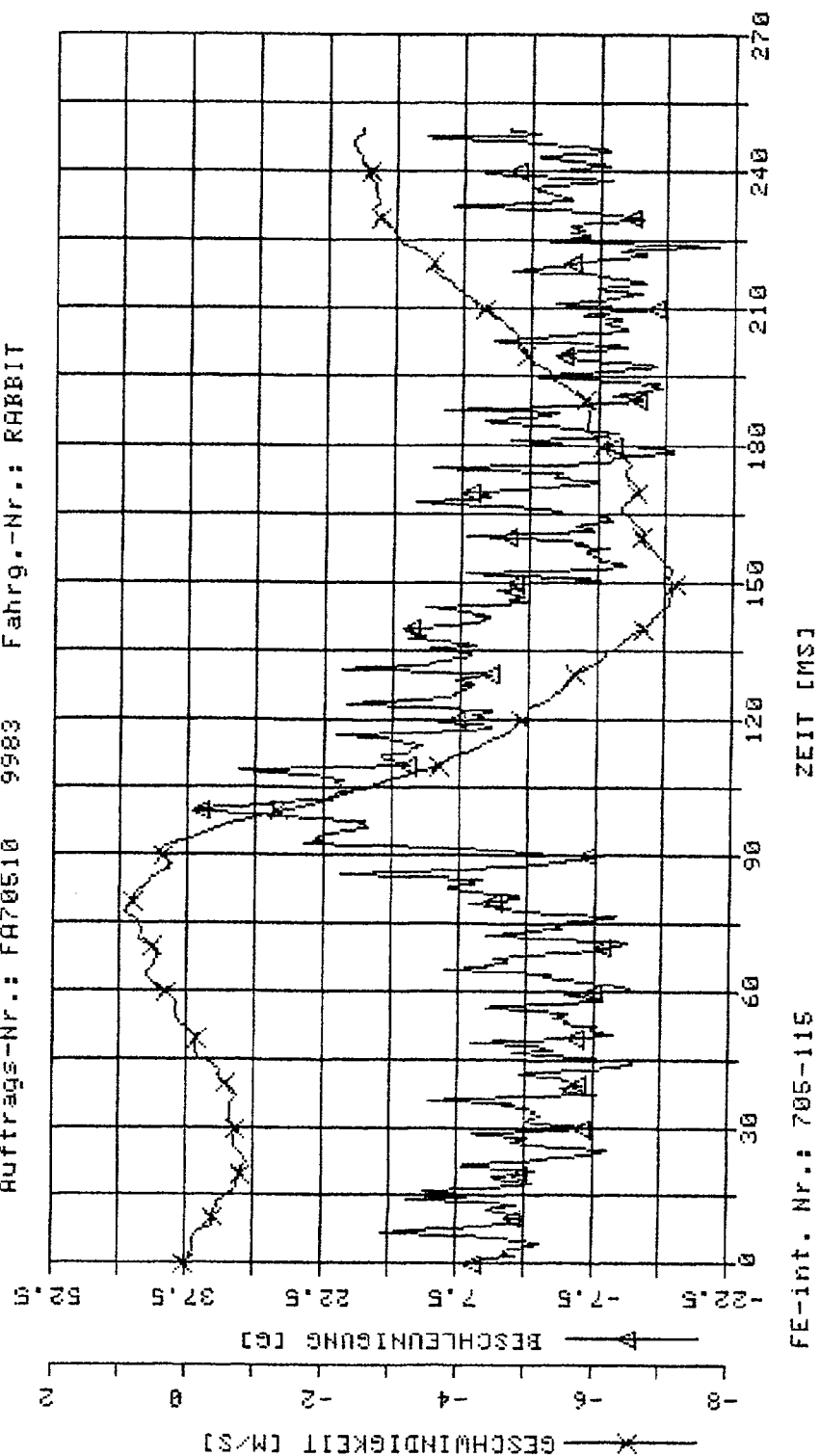
Auftrags-Nr.: FA70510 9983 Fahrg.-Nr.: RABBIT



- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9983

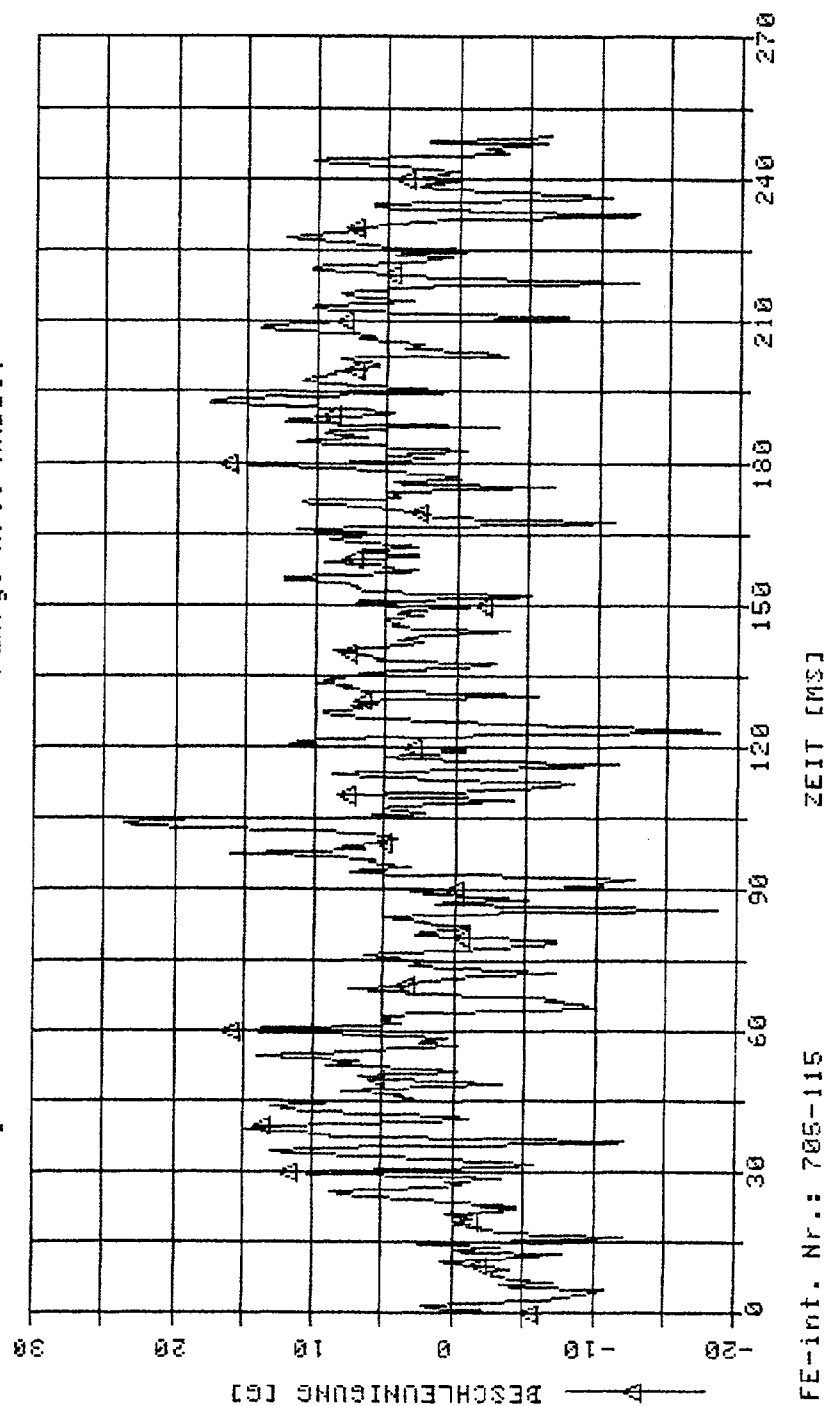
Mess-Stelle	UP	ber.	Extremum	t	3MS
T003Y	V1	BE g	36.411	100.50	28.35
T003Y	V1	GE m/s	-7.156	150.00	0.00

Auftrags-Nr.: FA70510 9983 Fahrg.-Nr.: RABBIT



Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9983
 Mess-Stelle UP ber. Extremum t 3MS
 T003Z V1 BE g 23.479 104.00 17.64

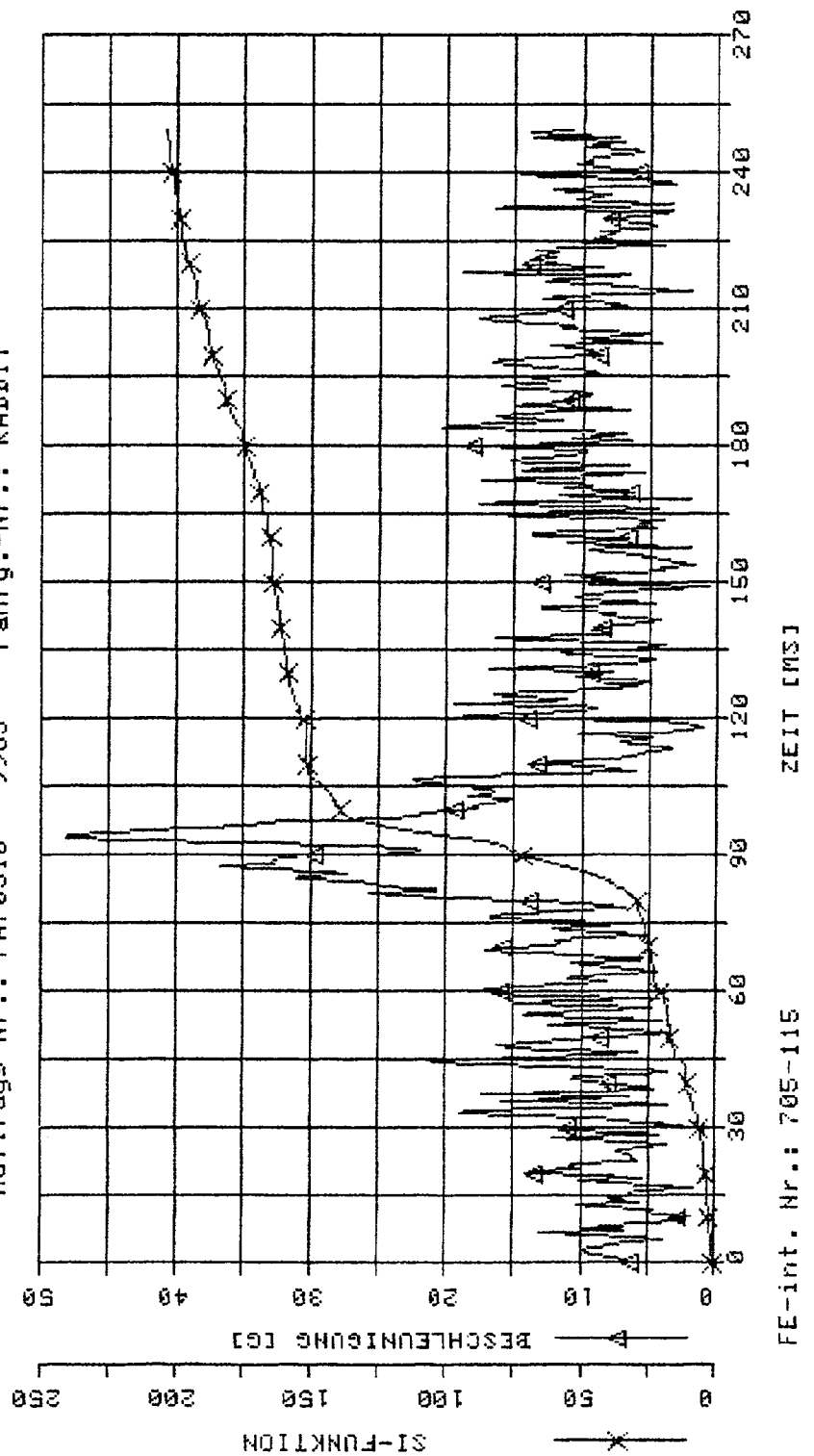
Auftrags-Nr.: FA70510 9983 Fahrg.-Nr.: RABBIT



- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9983

Mess-Stelle	UP	ber. Groesse	Extremum	t Extr.	3MS
TU03	V1	BE 9	48.188	94.00	36.81
TU03	V1	SI	204.175	250.00	0.00

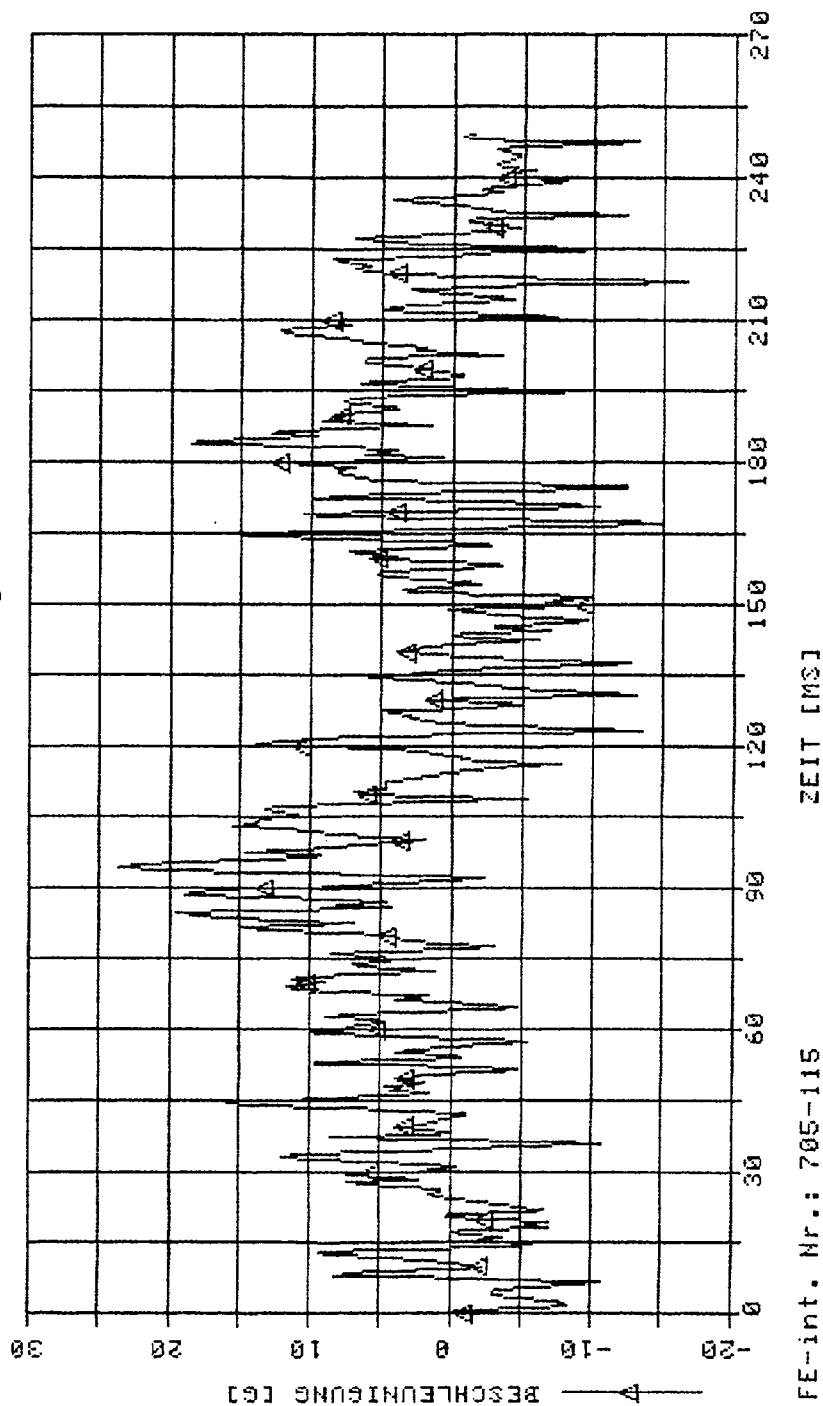
Auftrags-Nr.: FA70510 9983 Fahrg.-Nr.: RABBIT



- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9983

Mess-Stelle UP ber. Extremum t 3MS
 TU03X V1 BE g 23.528 94.50 18.51

Auftrags-Nr.: FA70510 9983 Fahrg.-Nr.: RABBIT

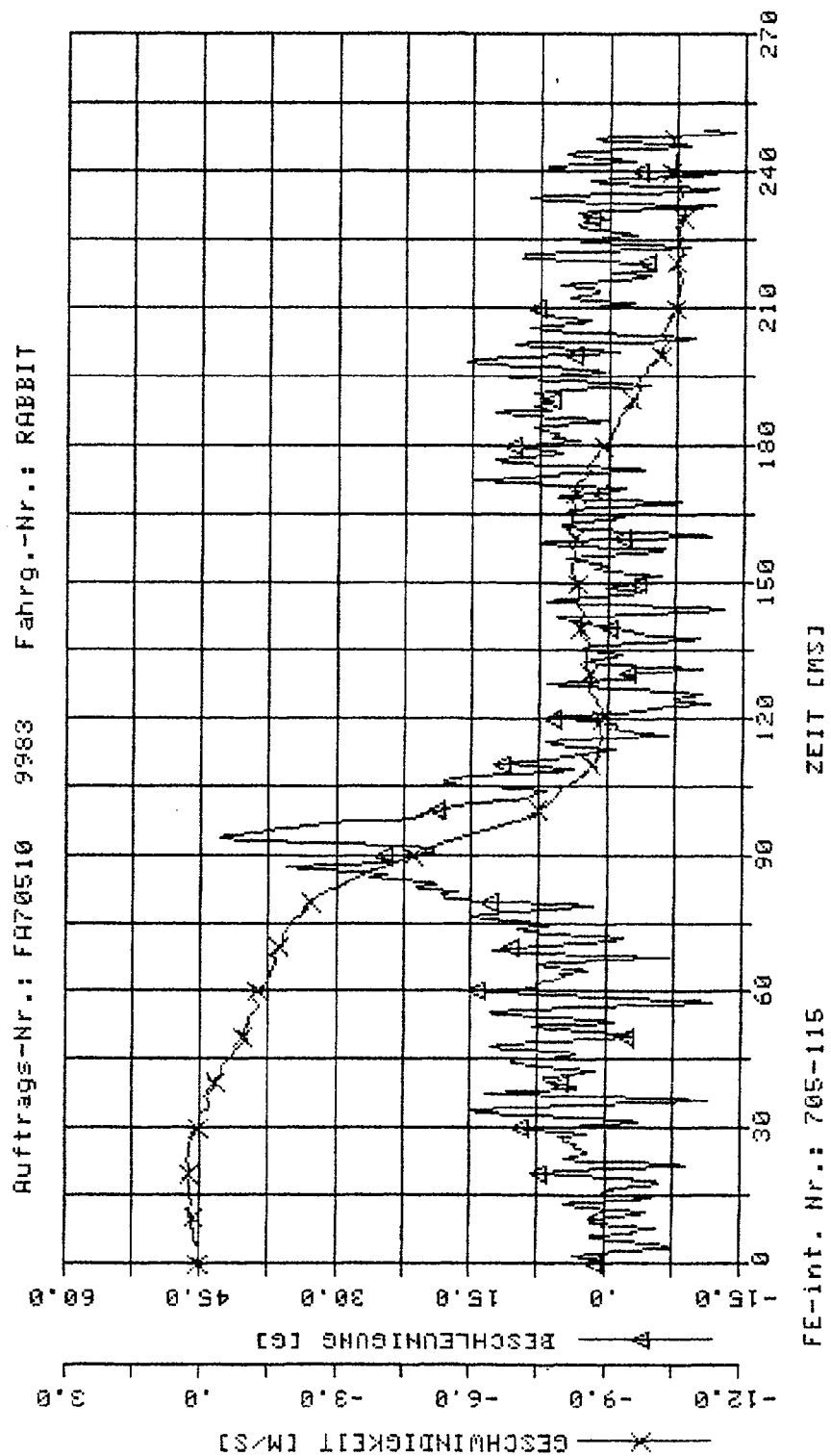


FE-int. Nr.: 705-115

4 — V1 TU03X

- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9983

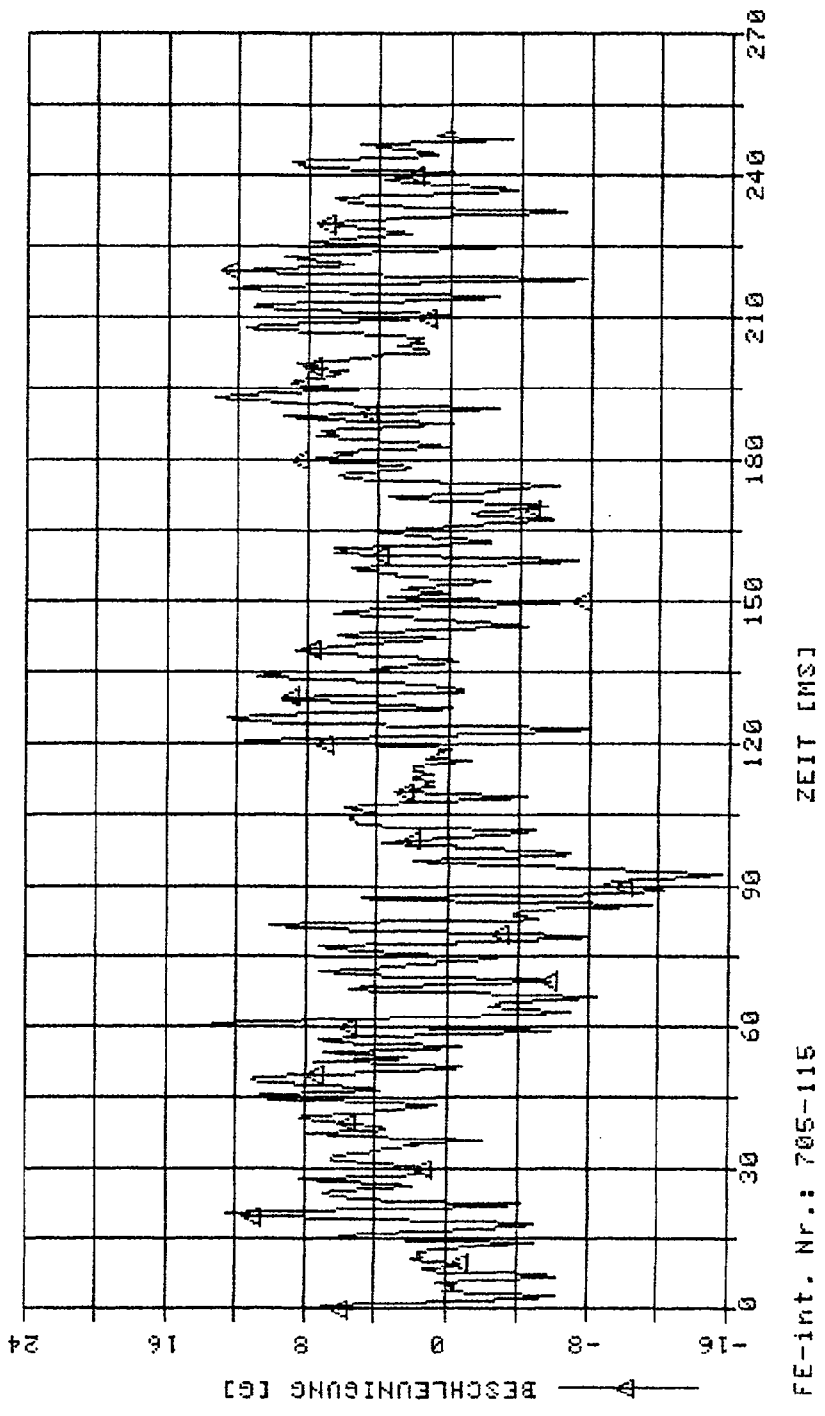
Mess-Stelle	UP	ber.	Extremum	r	3MS
TU03Y		Groesse		Extr.	
	V1	BE g	42.818	94.00	33.06
	V1	GE m/s	-10.674	231.50	0.00



- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9983

Mess-Stelle UP ber. Extremum t 3MS
TU03Z Groesse Extr. 12.34
U1 BE g -15.545 93.00

Auftrags-Nr.: FA70510 9983 Fahrg.-Nr.: RABBIT

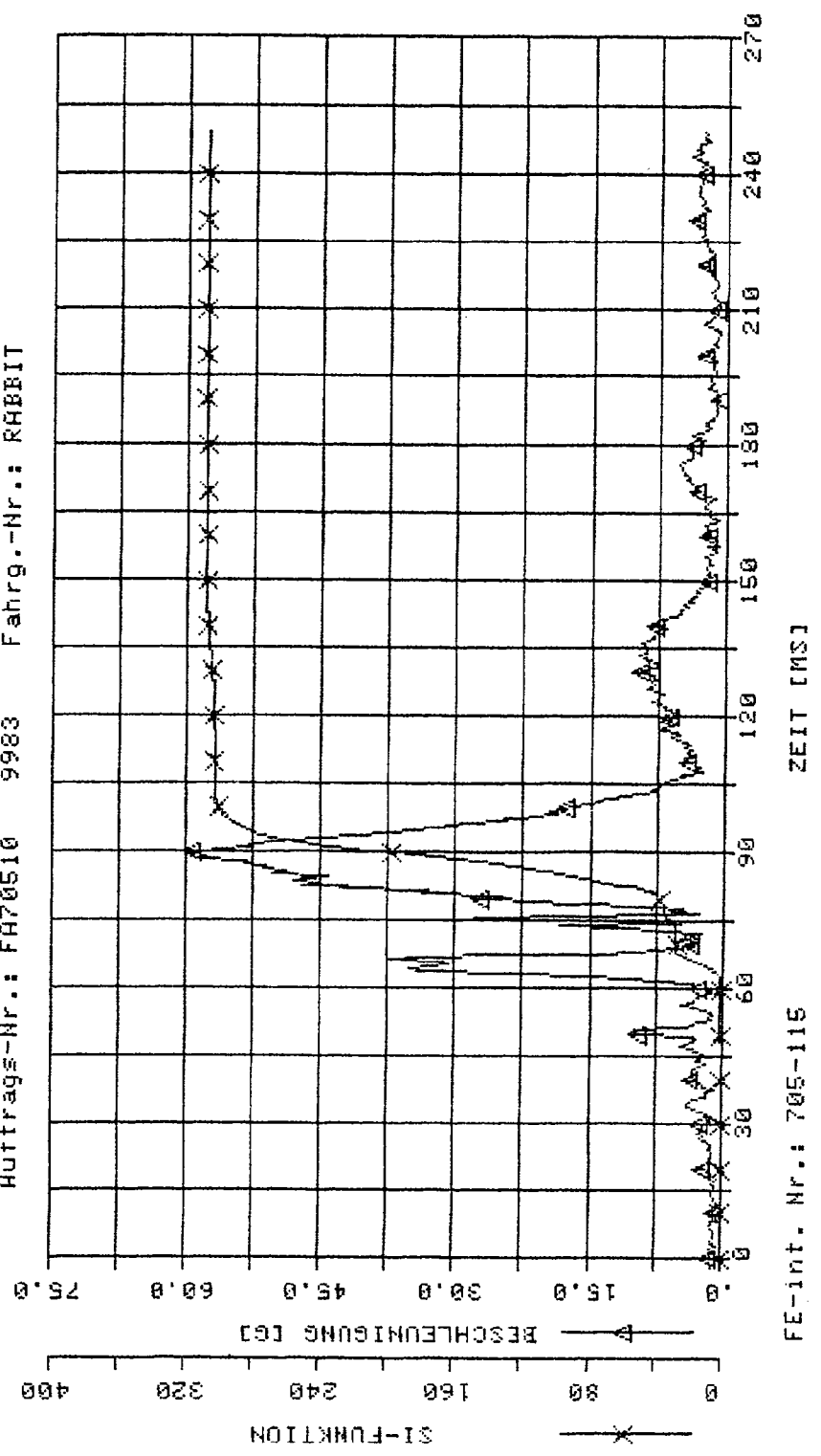


4 V1 TU03Z

- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9983

Mess-Stelle	UP	ber.	Extremum	t	3MS
BE03	V1	BE	59.414	89.50	53.57
BE03	V1	SI	308.643	250.00	0.00

Auftrags-Nr.: FA70510 9983 Fahrg.-Nr.: RABBIT



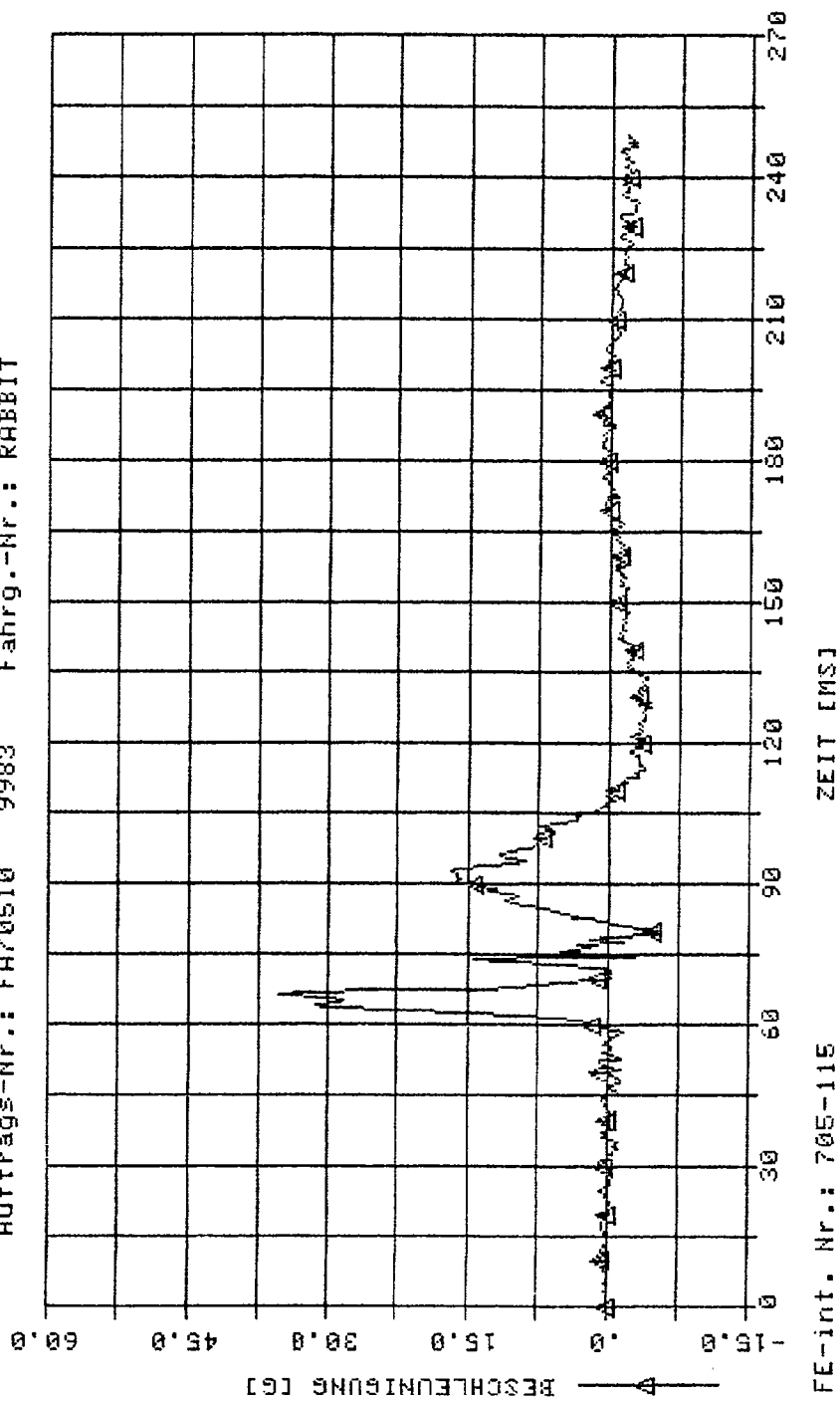
V1 BE03X Y Z

V1 BE03X Y Z

- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9983

Mess-Stelle	UP	ber.	Extremum	t	3MS
BE03X	V1	BE 9	35.333	66.50	28.26

Auftrags-Nr.: FA70510 9983 Fahrg.-Nr.: RABBIT

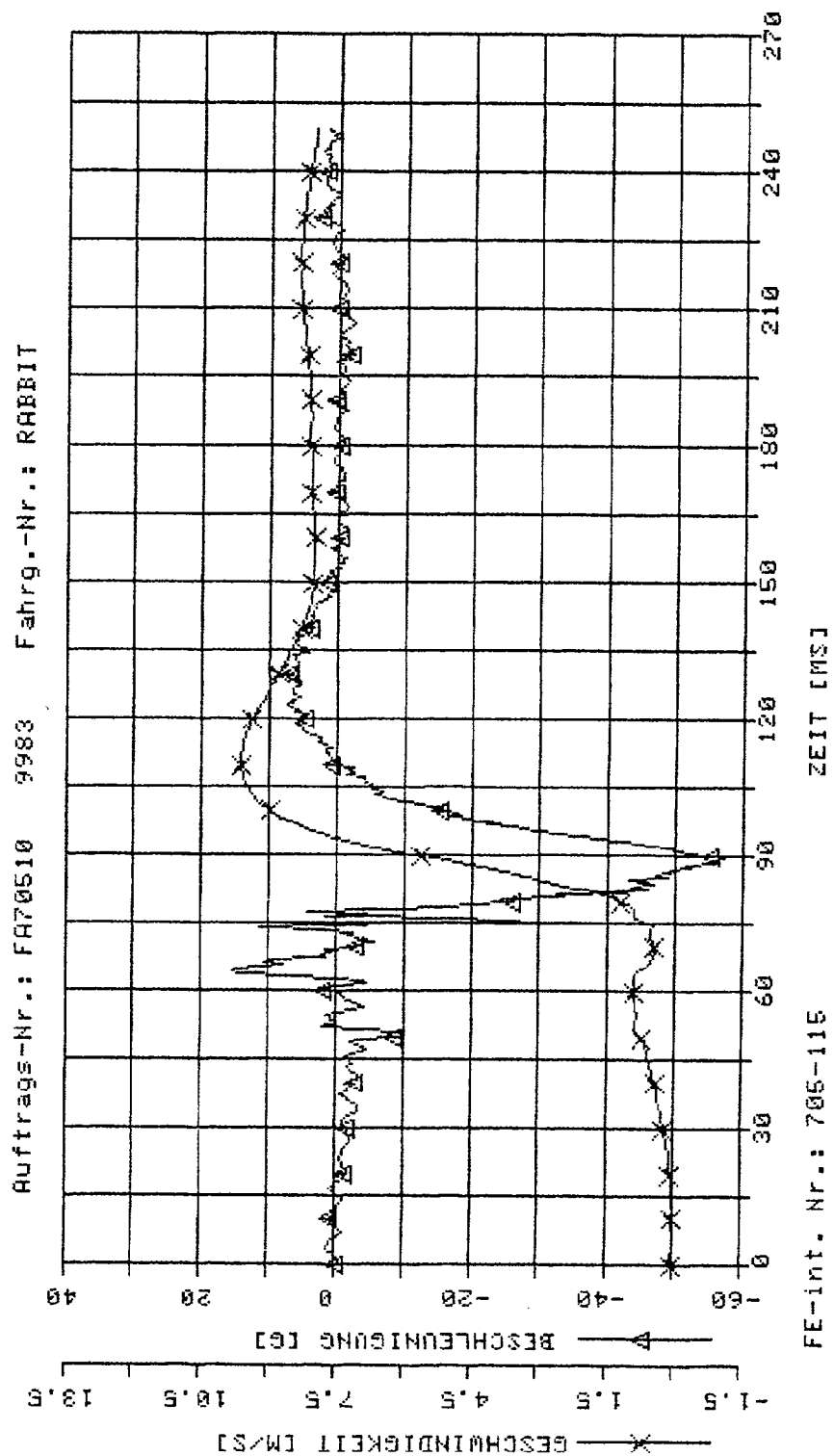


FE-int. Nr.: 705-115

V1 BE03X 4

- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9983

Mess-Stelle	UP	ber.	Grösse	Extremum	t	3MS
BE03Y	V1	BE	g	-57.083	89.50	52.11
BE03Y	V1	GE	m/s	9.622	110.00	0.00

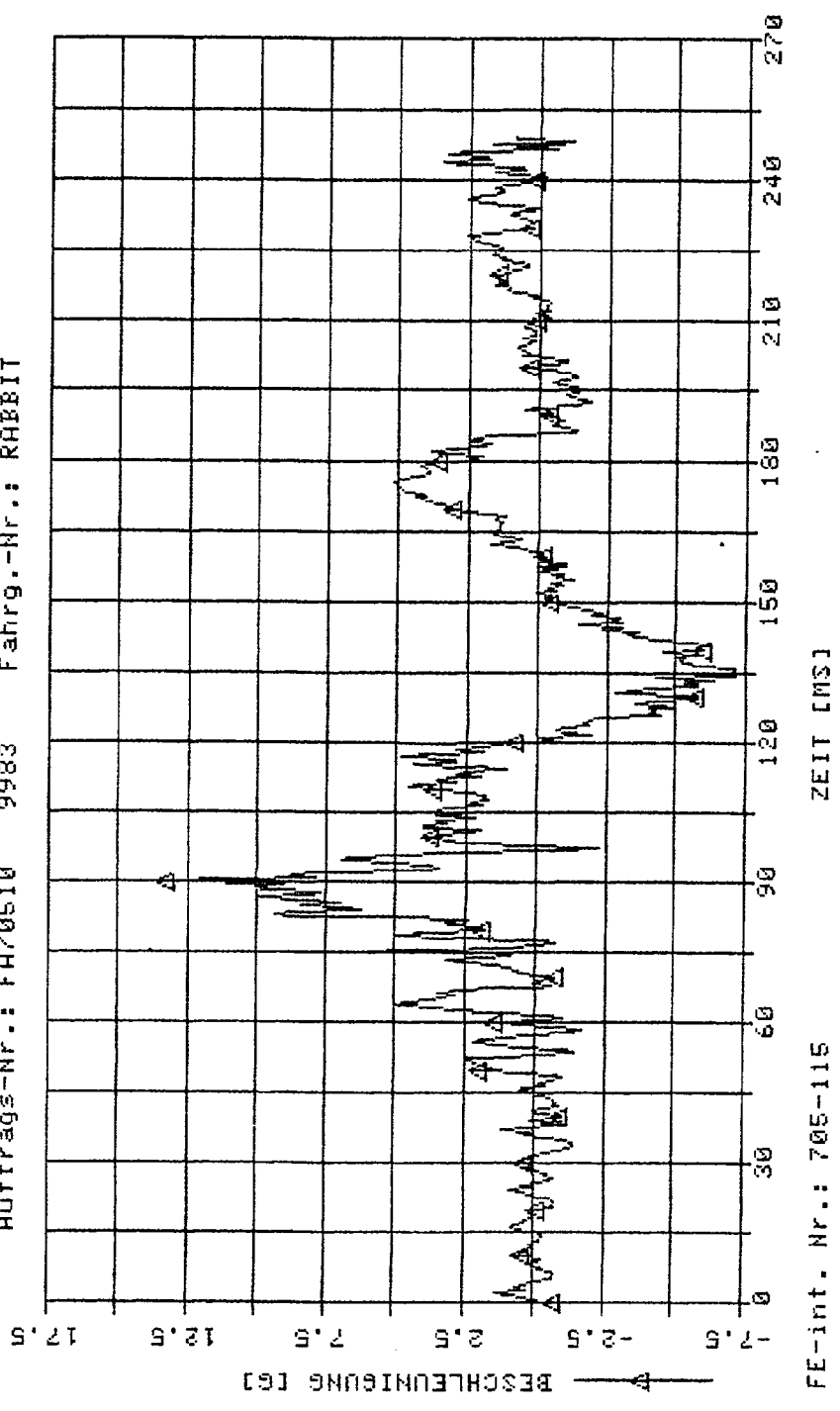


VI BE03Y
VI BE03Y

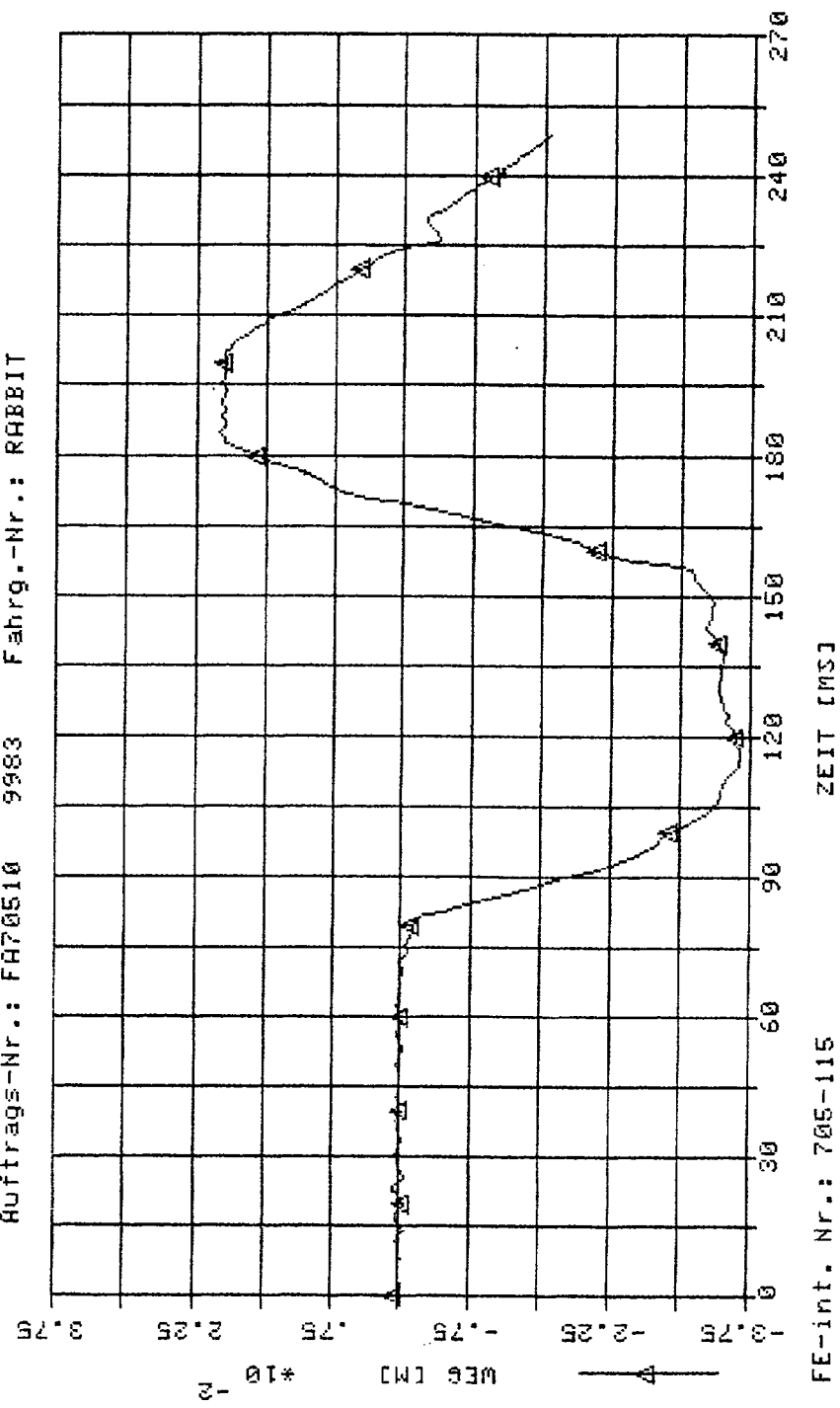
- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9983

Mess-Stelle	UP	ber.	Extremum	t	3MS
BE03Z	V1	BE g	13.380	Extr.	90.50
					9.34

Auftrags-Nr.: FA70510 9983 Fahrg.-Nr.: RABBIT



Auftrags-Nr.: FA70510 9983 Fahrg.-Nr.: RABBIT



W1 WE03

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Fathrg.-Nr.: RHEBIT

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