SDMS US EPA REGION V -1

SOME IMAGES WITHIN THIS DOCUMENT MAY BE ILLEGIBLE DUE TO BAD SOURCE DOCUMENTS.

158325

PEST DATA X SAMPLES

ORG X SAMPLES

STAR

Report Title: SAUGET LAB DATA 90894 - 90912 PEST/PCB

4

Date of Report: REC'D 3-28-91

IL 532 1967
LPC 403 01/91

Printed on Recycled Paper

FORM I PEST 1/87 Rev.

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

E.P.A. SAMPLE NO.

G201

Lab Name: I.E.P.A. - Springfield Contract:SAUGET

Lab Code:_____ Case No.:_____ SAS No.:_____ SDG. No.:_____

Matrix: (soil/water): Water Lab Sample ID: D190894

Sample wt/vol: 1000 (g/mL) mL Lab File ID:

Level: (low/med) low Date Received: 03-28-1991

% Moisture: not dec. --- dec. --- Date Extracted: 03-29-1991

Extraction: (SepF/Cont/Sonc) SepF Date Analyzed: 04-12-1991

GPC Cleanup: (Y/N) N pH: 7 Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
319-84-6	alpha-BHC	0.05	U
319-85-7	beta-BHC	0.05	U
319-86-8	delta-BHC	0.05	U
58-89-9	gamma-BHC (Lindane)	0.05	U
76-44-8	Heptachlor	0.05	U
309-00-2	Aldrin	0.05	U
1024-57-3	Heptachlor epoxide	0.05	U
959-98-8	Endosulfan I	0.05	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
5103-71-9	alpha-Chlordane	0.50	U
5106-74-2	gamma-Chlordane	0.50	U
8001-35-2	Toxaphene	1.00	U
12674-11-2	Arochlor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U

FORM I PEST 1/87 Rev.

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

E.P.A. SAMPLE NO.

G202

Lab Name: I.E.P.A. - Springfield Contract:SAUGET

Lab Code:_____ Case No.:_____ SAS No.:_____ SDG. No.:_____

Matrix: (soil/water): Water Lab Sample ID: D190895

Sample wt/vol: 1000 (g/mL) mL Lab File ID:

Level: (low/med) low Date Received: 03-28-1991

% Moisture: not dec. --- dec. --- Date Extracted: 03-29-1991

Extraction: (SepF/Cont/Sonc) SepF Date Analyzed: 04-12-1991

GPC Cleanup: (Y/N) N pH: 7 Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
319-84-6	alpha-BHC	0.05	U
319-85-7	beta-BHC	0.05	U
319-86-8	delta-BHC	0.05	U
58-89-9	gamma-BHC (Lindane)	0.05	U
76-44-8	Heptachlor	0.05	U
309-00-2	Aldrin	0.05	U
1024-57-3	Heptachlor epoxide	0.05	U
959-98-8	Endosulfan I	0.05	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
5103-71-9	alpha-Chlordane	0.50	U
5106-74-2	gamma-Chlordane	0.50	U
8001-35-2	Toxaphene	1.00	U
12674-11-2	Arochlor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.00	U
11096-82-5	Aroclor-1260	1.00	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

E.P.A. SAMPLE NO.

G203

Lab Name: I.E.P.A. - Springfield Contract:SAUGET

Lab Code:_____ Case No.:_____ SAS No.:_____ SDG. No.:_____

Matrix: (soil/water): Water Lab Sample ID: D190896

Sample wt/vol: 1000 (g/mL) mL Lab File ID:

Level: (low/med) low Date Received: 03-28-1991

% Moisture: not dec. --- dec. --- Date Extracted: 03-29-1991

Extraction: (SepF/Cont/Sonc) SepF Date Analyzed: 04-12-1991

GPC Cleanup: (Y/N) N pH: 7 Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
319-84-6	alpha-BHC	0.05	U
319-85-7	beta-BHC	0.05	U
319-86-8	delta-BHC	0.05	U
58-89-9	gamma-BHC (Lindane)	0.05	U
76-44-8	Heptachlor	0.05	U
309-00-2	Aldrin	0.05	U
1024-57-3	Heptachlor epoxide	0.05	U
959-98-8	Endosulfan I	0.05	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
5103-71-9	alpha-Chlordane	0.50	U
5106-74-2	gamma-Chlordane	0.50	U
8001-35-2	Toxaphene	1.00	U
12674-11-2	Arochlor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.00	U
11096-82-5	Aroclor-1260	1.00	U

FORM I PEST 1/87 Rev.

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

E.P.A. SAMPLE NO.

G204

Lab Name: I.E.P.A. - Springfield Contract:SAUGET

Lab Code:_____ Case No.:_____ SAS No.:_____ SDG. No.:_____

Matrix: (soil/water): Water Lab Sample ID: D190897

Sample wt/vol: 1000 (g/mL) mL Lab File ID:

Level: (low/med) low Date Received: 03-28-1991

% Moisture: not dec. --- dec. --- Date Extracted: 03-29-1991

Extraction: (SepF/Cont/Sonc) SepF Date Analyzed: 04-12-1991

GPC Cleanup: (Y/N) N pH: 7 Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
319-84-6	alpha-BHC	0.05	U
319-85-7	beta-BHC	0.05	U
319-86-8	delta-BHC	0.05	U
58-89-9	gamma-BHC (Lindane)	0.05	U
76-44-8	Heptachlor	0.05	U
309-00-2	Aldrin	0.05	U
1024-57-3	Heptachlor epoxide	0.05	U
959-98-8	Endosulfan I	0.05	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
5103-71-9	alpha-Chlordane	0.50	U
5106-74-2	gamma-Chlordane	0.50	U
8001-35-2	Toxaphene	1.00	U
12674-11-2	Arochlor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.00	U

FORM I PEST 1/87 Rev.

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

E.P.A. SAMPLE NO.

G205

Lab Name: I.E.P.A. - Springfield Contract:SAUGET

Lab Code:_____ Case No.:_____ SAS No.:_____ SDG. No.:_____

Matrix: (soil/water): Water Lab Sample ID: D190898

Sample wt/vol: 1000 (g/mL) mL Lab File ID:

Level: (low/med) low Date Received: 03-28-1991

% Moisture: not dec. --- dec. --- Date Extracted: 03-29-1991

Extraction: (SepF/Cont/Sonc) SepF Date Analyzed: 04-12-1991

GPC Cleanup: (Y/N) N pH: 5 Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
319-84-6	alpha-BHC	0.05	U
319-85-7	beta-BHC	0.05	U
319-86-8	delta-BHC	0.05	U
58-89-9	gamma-BHC (Lindane)	0.05	U
76-44-8	Heptachlor	0.05	U
309-00-2	Aldrin	0.05	U
1024-57-3	Heptachlor epoxide	0.05	U
959-98-8	Endosulfan I	0.05	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.07	J
53494-70-5	Endrin ketone	0.10	U
5103-71-9	alpha-Chlordane	3.76	
5106-74-2	gamma-Chlordane	5.02	
8001-35-2	Toxaphene	1.00	U
12674-11-2	Arochlor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U

FORM I PEST 1/87 Rev.

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

E.P.A. SAMPLE NO.

PBLKW#1

Lab Name: I.E.P.A. - Springfield Contract:SAUGET

Lab Code:_____ Case No.:_____ SAS No.:_____ SDG. No.:_____

Matrix: (soil/water): Water Lab Sample ID: D190950BL

Sample wt/vol: 1000 (g/mL) mL Lab File ID:

Level: (low/med) low Date Received: 03-28-1991

% Moisture: not dec. --- dec. --- Date Extracted: 03-29-1991

Extraction: (SepF/Cont/Sonc) SepF Date Analyzed: 04-12-1991

GPC Cleanup: (Y/N) N pH: 7 Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
319-84-6	alpha-BHC	0.05	U
319-85-7	beta-BHC	0.05	U
319-86-8	delta-BHC	0.05	U
58-89-9	gamma-BHC (Lindane)	0.05	U
76-44-8	Heptachlor	0.05	U
309-00-2	Aldrin	0.05	U
1024-57-3	Heptachlor epoxide	0.05	U
959-98-8	Endosulfan I	0.05	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
5103-71-9	alpha-Chlordane	0.50	U
5106-74-2	gamma-Chlordane	0.50	U
8001-35-2	Toxaphene	1.00	U
12674-11-2	Arochlor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.00	U
11096-82-5	Aroclor-1260	1.00	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

E.P.A. SAMPLE NO.

G205MS

Lab Name: I.E.P.A. - Springfield Contract:SAUGET

Lab Code:_____ Case No.:_____ SAS No.:_____ SDG. No.:_____

Matrix: (soil/water): Water Lab Sample ID: D190949MS

Sample wt/vol: 1000 (g/mL) mL Lab File ID:

Level: (low/med) low Date Received: 03-28-1991

% Moisture: not dec. --- dec. --- Date Extracted: 03-29-1991

Extraction: (SepF/Cont/Sonc) SepF Date Analyzed: 04-12-1991

GPC Cleanup: (Y/N) N pH: 5 Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
319-84-6	alpha-BHC	0.05	U
319-85-7	beta-BHC	0.05	U
319-86-8	delta-BHC	0.05	U
58-89-9	gamma-BHC (Lindane)	0.24	
76-44-8	Heptachlor	0.54	
309-00-2	Aldrin	1.98	
1024-57-3	Heptachlor epoxide	0.05	U
959-98-8	Endosulfan I	0.05	U
60-57-1	Dieldrin	0.70	
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.68	
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.63	
72-43-5	Methoxychlor	0.07	J
53494-70-5	Endrin ketone	0.10	U
5103-71-9	alpha-Chlordane	3.78	
5106-74-2	gamma-Chlordane	5.02	
8001-35-2	Toxaphene	1.00	U
12674-11-2	Arochlor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.00	U
11096-82-5	Aroclor-1260	1.00	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

E.P.A. SAMPLE NO.

G205MSD

Lab Name: I.E.P.A. - Springfield Contract:SAUGET

Lab Code:_____ Case No.:_____ SAS No.:_____ SDG. No.:_____

Matrix: (soil/water): Water Lab Sample ID: D190949MSD

Sample wt/vol: 1000 (g/mL) mL Lab File ID:

Level: (low/med) low Date Received: 03-28-1991

% Moisture: not dec. --- dec. --- Date Extracted: 03-29-1991

Extraction: (SepF/Cont/Sonc) SepF Date Analyzed: 04-12-1991

GPC Cleanup: (Y/N) N pH: 7 Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
319-84-6	alpha-BHC	0.05	U
319-85-7	beta-BHC	0.05	U
319-86-8	delta-BHC	0.05	U
58-89-9	gamma-BHC (Lindane)	0.28	
76-44-8	Heptachlor	0.57	
309-00-2	Aldrin	2.09	
1024-57-3	Heptachlor epoxide	0.05	U
959-98-8	Endosulfan I	0.05	U
60-57-1	Dieldrin	0.74	
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.76	
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.68	
72-43-5	Methoxychlor	0.07	J
53494-70-5	Endrin ketone	0.10	U
5103-71-9	alpha-Chlordane	3.76	
5106-74-2	gamma-Chlordane	5.02	
8001-35-2	Toxaphene	1.00	U
12674-11-2	Arochlor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.00	U
11096-82-5	Aroclor-1260	1.00	U

1D 0

PESTICIDE ORGANICS ANALYSIS DATA SHEET

E.P.A. SAMPLE NO.

X101

Lab Name: I.E.P.A. - Springfield Contract:SAUGET

Lab Code:_____ Case No.:_____ SAS No.:_____ SDG. No.:_____

Matrix: (soil/water): WATER Lab Sample ID: D190900

Sample wt/vol: 30.400 (g/mL) g Lab File ID:

Level: (low/med) low Date Received: 03-28-1991

% Moisture: not dec. 0.0 dec. Date Extracted: 04-02-1991

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 04-12-1991

GPC Cleanup: (Y/N) Y pH: 6.0 Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	19	U
319-85-7	beta-BHC	19	U
319-86-8	delta-BHC	19	U
58-89-9	gamma-BHC (Lindane)	19	U
76-44-8	Heptachlor	19	U
309-00-2	Aldrin	19	U
1024-57-3	Heptachlor epoxide	81	
959-98-8	Endosulfan I	19	U
60-57-1	Dieldrin	19	U
72-55-9	4,4'-DDE	38	U
72-20-8	Endrin	38	U
33213-65-9	Endosulfan II	38	U
72-54-8	4,4'-DDD	38	U
1031-07-8	Endosulfan sulfate	38	U
50-29-3	4,4'-DDT	38	U
72-43-5	Methoxychlor	192	U
53494-70-5	Endrin ketone	38	U
5103-71-9	alpha-Chlordane	821	
5106-74-2	gamma-Chlordane	706	
8001-35-2	Toxaphene	384	U
12674-11-2	Arochlor-1016	192	U
11104-28-2	Aroclor-1221	192	U
11141-16-5	Aroclor-1232	192	U
53469-21-9	Aroclor-1242	192	U
12672-29-6	Aroclor-1248	192	U
11097-69-1	Aroclor-1254	384	U
11096-82-5	Aroclor-1260	384	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

E.P.A. SAMPLE NO.

X102

Lab Name: I.E.P.A. - Springfield Contract:SAUGET

Lab Code:_____ Case No.:_____ SAS No.:_____ SDG. No.:_____

Matrix: (soil/water): SOIL Lab Sample ID: D190901

Sample wt/vol: 30.100 (g/mL) g Lab File ID:

Level: (low/med) low Date Received: 03-28-1991

% Moisture: not dec. 18.6 dec. Date Extracted: 04-02-1991

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 04-12-1991

GPC Cleanup: (Y/N) Y pH: 6.0 Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	20	U
319-85-7	beta-BHC	20	U
319-86-8	delta-BHC	20	U
58-89-9	gamma-BHC (Lindane)	20	U
76-44-8	Heptachlor	20	U
309-00-2	Aldrin	20	U
1024-57-3	Heptachlor epoxide	20	U
959-98-8	Endosulfan I	20	U
60-57-1	Dieldrin	20	U
72-55-9	4,4'-DDE	4	J
72-20-8	Endrin	39	U
33213-65-9	Endosulfan II	39	U
72-54-8	4,4'-DDD	39	U
1031-07-8	Endosulfan sulfate	39	U
50-29-3	4,4'-DDT	39	U
72-43-5	Methoxychlor	197	U
53494-70-5	Endrin ketone	39	U
5103-71-9	alpha-Chlordane	197	U
5106-74-2	gamma-Chlordane	197	U
8001-35-2	Toxaphene	393	U
12674-11-2	Arochlor-1016	197	U
11104-28-2	Aroclor-1221	197	U
11141-16-5	Aroclor-1232	197	U
53469-21-9	Aroclor-1242	197	U
12672-29-6	Aroclor-1248	197	U
11097-69-1	Aroclor-1254	393	U
11096-82-5	Aroclor-1260	393	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

E.P.A. SAMPLE NO.

X103

Lab Name: I.E.P.A. - Springfield Contract:SAUGET

Lab Code:_____ Case No.:_____ SAS No.:_____ SDG. No.:_____

Matrix: (soil/water): SOIL Lab Sample ID: D190902

Sample wt/vol: 31.060 (g/mL) g Lab File ID:

Level: (low/med) low Date Received: 03-28-1991

% Moisture: not dec. 18.6 dec. Date Extracted: 04-02-1991

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 04-12-1991

GPC Cleanup: (Y/N) Y pH: 6.0 Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	21	U
319-85-7	beta-BHC	21	U
319-86-8	delta-BHC	21	U
58-89-9	gamma-BHC (Lindane)	21	U
76-44-8	Heptachlor	21	U
309-00-2	Aldrin	21	U
1024-57-3	Heptachlor epoxide	21	U
959-98-8	Endosulfan I	21	U
60-57-1	Dieldrin	21	U
72-55-9	4,4'-DDE	32	J
72-20-8	Endrin	42	U
33213-65-9	Endosulfan II	13	J
72-54-8	4,4'-DDD	42	U
1031-07-8	Endosulfan sulfate	42	U
50-29-3	4,4'-DDT	42	U
72-43-5	Methoxychlor	31	J
53494-70-5	Endrin ketone	42	U
5103-71-9	alpha-Chlordane	211	U
5106-74-2	gamma-Chlordane	211	U
8001-35-2	Toxaphene	422	U
12674-11-2	Arochlor-1016	211	U
11104-28-2	Aroclor-1221	211	U
11141-16-5	Aroclor-1232	211	U
53469-21-9	Aroclor-1242	211	U
12672-29-6	Aroclor-1248	211	U
11097-69-1	Aroclor-1254	422	U
11096-82-5	Aroclor-1260	422	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

E.P.A. SAMPLE NO.

X104

Lab Name: I.E.P.A. - Springfield Contract:SAUGET

Lab Code:_____ Case No.:_____ SAS No.:_____ SDG. No.:_____

Matrix: (soil/water): SOIL Lab Sample ID: D190903

Sample wt/vol: 30.400 (g/mL) g Lab File ID:

Level: (low/med) low Date Received: 03-28-1991

% Moisture: not dec. 18.6 dec. Date Extracted: 04-02-1991

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 04-12-1991

GPC Cleanup: (Y/N) Y pH: 6.0 Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	19	U
319-85-7	beta-BHC	19	U
319-86-8	delta-BHC	19	U
58-89-9	gamma-BHC (Lindane)	19	U
76-44-8	Heptachlor	55	
309-00-2	Aldrin	19	U
1024-57-3	Heptachlor epoxide	280	
959-98-8	Endosulfan I	19	U
60-57-1	Dieldrin	19	U
72-55-9	4,4'-DDE	19	U
72-20-8	Endrin	37	U
33213-65-9	Endosulfan II	37	U
72-54-8	4,4'-DDD	37	U
1031-07-8	Endosulfan sulfate	37	U
50-29-3	4,4'-DDT	37	U
72-43-5	Methoxychlor	186	U
53494-70-5	Endrin ketone	37	U
5103-71-9	alpha-Chlordane	410	
5106-74-2	gamma-Chlordane	200	
8001-35-2	Toxaphene	372	U
12674-11-2	Arochlor-1016	186	U
11104-28-2	Aroclor-1221	186	U
11141-16-5	Aroclor-1232	186	U
53469-21-9	Aroclor-1242	186	U
12672-29-6	Aroclor-1248	186	U
11097-69-1	Aroclor-1254	372	U
11096-82-5	Aroclor-1260	372	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

E.P.A. SAMPLE NO.

X106

Lab Name: I.E.P.A. - Springfield Contract:SAUGET

Lab Code:_____ Case No.:_____ SAS No.:_____ SDG. No.:_____

Matrix: (soil/water): WATER Lab Sample ID: D190904

Sample wt/vol: 30.540 (g/mL) g Lab File ID:

Level: (low/med) low Date Received: 03-28-1991

% Moisture: not dec. 36.9 dec. Date Extracted: 04-02-1991

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 04-12-1991

GPC Cleanup: (Y/N) Y pH: 6.0 Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	25	U
319-85-7	beta-BHC	10	J
319-86-8	delta-BHC	25	U
58-89-9	gamma-BHC (Lindane)	25	U
76-44-8	Heptachlor	25	U
309-00-2	Aldrin	25	U
1024-57-3	Heptachlor epoxide	25	U
959-98-8	Endosulfan I	25	U
60-57-1	Dieldrin	51	U
72-55-9	4,4'-DDE	51	U
72-20-8	Endrin	151	
33213-65-9	Endosulfan II	210	
72-54-8	4,4'-DDD	51	U
1031-07-8	Endosulfan sulfate	51	U
50-29-3	4,4'-DDT	51	U
72-43-5	Methoxychlor	254	U
53494-70-5	Endrin ketone	51	U
5103-71-9	alpha-Chlordane	254	U
5106-74-2	gamma-Chlordane	254	U
8001-35-2	Toxaphene	507	U
12674-11-2	Arochlor-1016	254	U
11104-28-2	Aroclor-1221	254	U
11141-16-5	Aroclor-1232	254	U
53469-21-9	Aroclor-1242	254	U
12672-29-6	Aroclor-1248	254	U
11097-69-1	Aroclor-1254	6955	
11096-82-5	Aroclor-1260	364	J

E.P.A. SAMPLE NO.

X107

Lab Name: I.E.P.A. - Springfield Contract:SAUGET

Lab Code:_____ Case No.:_____ SAS No.:_____ SDG. No.:_____

Matrix: (soil/water): WATER Lab Sample ID: D190905

Sample wt/vol: 30.190 (g/mL) g Lab File ID:

Level: (low/med) low Date Received: 03-28-1991

% Moisture: not dec. 64.6 dec. Date Extracted: 04-02-1991

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 04-12-1991

GPC Cleanup: (Y/N) Y pH: 6.0 Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	45	U
319-85-7	beta-BHC	45	U
319-86-8	delta-BHC	45	U
58-89-9	gamma-BHC (Lindane)	45	U
76-44-8	Heptachlor	45	U
309-00-2	Aldrin	45	U
1024-57-3	Heptachlor epoxide	45	U
959-98-8	Endosulfan I	45	U
60-57-1	Dieldrin	90	U
72-55-9	4,4'-DDE	90	U
72-20-8	Endrin	975	
33213-65-9	Endosulfan II	90	U
72-54-8	4,4'-DDD	90	U
1031-07-8	Endosulfan sulfate	90	U
50-29-3	4,4'-DDT	90	U
72-43-5	Methoxychlor	452	U
53494-70-5	Endrin ketone	90	U
5103-71-9	alpha-Chlordane	452	U
5106-74-2	gamma-Chlordane	452	U
8001-35-2	Toxaphene	904	U
12674-11-2	Arochlor-1016	452	U
11104-28-2	Aroclor-1221	452	U
11141-16-5	Aroclor-1232	452	U
53469-21-9	Aroclor-1242	452	U
12672-29-6	Aroclor-1248	452	U
11097-69-1	Aroclor-1254	45653	
11096-82-5	Aroclor-1260	14273	

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

E.P.A. SAMPLE NO.

Lab Name: I.E.P.A. - Springfield Contract:SAUGET

X108

Lab Code:_____ Case No.:_____ SAS No.:_____ SDG. No.:_____

Matrix: (soil/water): WATER Lab Sample ID: D190906

Sample wt/vol: 30.310 (g/mL) g Lab File ID:

Level: (low/med) low Date Received: 03-28-1991

% Moisture: not dec. 43.0 dec. Date Extracted: 04-02-1991

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 04-12-1991

GPC Cleanup: (Y/N) Y pH: 6.0 Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	28	U
319-85-7	beta-BHC	28	U
319-86-8	delta-BHC	28	U
58-89-9	gamma-BHC (Lindane)	28	U
76-44-8	Heptachlor	28	U
309-00-2	Aldrin	28	U
1024-57-3	Heptachlor epoxide	28	U
959-98-8	Endosulfan I	28	U
60-57-1	Dieldrin	56	U
72-55-9	4,4'-DDE	56	U
72-20-8	Endrin	56	U
33213-65-9	Endosulfan II	56	U
72-54-8	4,4'-DDD	56	U
1031-07-8	Endosulfan sulfate	56	U
50-29-3	4,4'-DDT	56	U
72-43-5	Methoxychlor	281	U
53494-70-5	Endrin ketone	56	U
5103-71-9	alpha-Chlordane	281	U
5106-74-2	gamma-Chlordane	281	U
8001-35-2	Toxaphene	562	U
12674-11-2	Arochlor-1016	281	U
11104-28-2	Aroclor-1221	281	U
11141-16-5	Aroclor-1232	281	U
53469-21-9	Aroclor-1242	281	U
12672-29-6	Aroclor-1248	281	U
11097-69-1	Aroclor-1254	562	U
11096-82-5	Aroclor-1260	562	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

E.P.A. SAMPLE NO.

Lab Name: I.E.P.A. - Springfield Contract:SAUGET

X109

Lab Code:_____ Case No.:_____ SAS No.:_____ SDG. No.:_____

Matrix: (soil/water): WATER Lab Sample ID: D190907

Sample wt/vol: 30.100 (g/mL) g Lab File ID:

Level: (low/med) low Date Received: 03-28-1991

% Moisture: not dec. 32.36 dec. Date Extracted: 04-02-1991

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 04-12-1991

GPC Cleanup: (Y/N) Y pH: 6.0 Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	24	U
319-85-7	beta-BHC	24	U
319-86-8	delta-BHC	24	U
58-89-9	gamma-BHC (Lindane)	24	U
76-44-8	Heptachlor	24	U
309-00-2	Aldrin	24	U
1024-57-3	Heptachlor epoxide	24	U
959-98-8	Endosulfan I	24	U
60-57-1	Dieldrin	47	U
72-55-9	4,4'-DDE	47	U
72-20-8	Endrin	47	U
33213-65-9	Endosulfan II	47	U
72-54-8	4,4'-DDD	47	U
1031-07-8	Endosulfan sulfate	47	U
50-29-3	4,4'-DDT	47	U
72-43-5	Methoxychlor	237	U
53494-70-5	Endrin ketone	47	U
5103-71-9	alpha-Chlordane	237	U
5106-74-2	gamma-Chlordane	237	U
8001-35-2	Toxaphene	473	U
12674-11-2	Arochlor-1016	237	U
11104-28-2	Aroclor-1221	237	U
11141-16-5	Aroclor-1232	237	U
53469-21-9	Aroclor-1242	237	U
12672-29-6	Aroclor-1248	237	U
11097-69-1	Aroclor-1254	473	U
11096-82-5	Aroclor-1260	473	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

E.P.A. SAMPLE NO.

X110

Lab Name: I.E.P.A. - Springfield Contract:SAUGET

Lab Code:_____ Case No.:_____ SAS No.:_____ SDG. No.:_____

Matrix: (soil/water): WATER Lab Sample ID: D190908

Sample wt/vol: 30.250 (g/mL) g Lab File ID:

Level: (low/med) low Date Received: 03-28-1991

% Moisture: not dec. 25.58 dec. Date Extracted: 04-02-1991

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 04-12-1991

GPC Cleanup: (Y/N) Y pH: 6.0 Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	21	U
319-85-7	beta-BHC	21	U
319-86-8	delta-BHC	21	U
58-89-9	gamma-BHC (Lindane)	21	U
76-44-8	Heptachlor	21	U
309-00-2	Aldrin	21	U
1024-57-3	Heptachlor epoxide	21	U
959-98-8	Endosulfan I	21	U
60-57-1	Dieldrin	21	U
72-55-9	4,4'-DDE	3	J
72-20-8	Endrin	56	U
33213-65-9	Endosulfan II	43	U
72-54-8	4,4'-DDD	43	U
1031-07-8	Endosulfan sulfate	43	U
50-29-3	4,4'-DDT	43	U
72-43-5	Methoxychlor	215	U
53494-70-5	Endrin ketone	43	U
5103-71-9	alpha-Chlordane	215	U
5106-74-2	gamma-Chlordane	215	U
8001-35-2	Toxaphene	430	U
12674-11-2	Arochlor-1016	215	U
11104-28-2	Aroclor-1221	215	U
11141-16-5	Aroclor-1232	215	U
53469-21-9	Aroclor-1242	215	U
12672-29-6	Aroclor-1248	215	U
11097-69-1	Aroclor-1254	430	U
11096-82-5	Aroclor-1260	430	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

E.P.A. SAMPLE NO.

X111

Lab Name: I.E.P.A. - Springfield Contract:SAUGET

Lab Code:_____ Case No.:_____ SAS No.:_____ SDG. No.:_____

Matrix: (soil/water): WATER Lab Sample ID: D190909

Sample wt/vol: 30.030 (g/mL) g Lab File ID:

Level: (low/med) low Date Received: 03-28-1991

% Moisture: not dec. 48.4 dec. Date Extracted: 04-02-1991

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 04-12-1991

GPC Cleanup: (Y/N) Y pH: 6.0 Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	31	U
319-85-7	beta-BHC	31	U
319-86-8	delta-BHC	31	U
58-89-9	gamma-BHC (Lindane)	31	U
76-44-8	Heptachlor	31	U
309-00-2	Aldrin	31	U
1024-57-3	Heptachlor epoxide	31	U
959-98-8	Endosulfan I	31	U
60-57-1	Dieldrin	62	U
72-55-9	4,4'-DDE	97	
72-20-8	Endrin	66	
33213-65-9	Endosulfan II	203	
72-54-8	4,4'-DDD	62	U
1031-07-8	Endosulfan sulfate	62	U
50-29-3	4,4'-DDT	62	U
72-43-5	Methoxychlor	310	U
53494-70-5	Endrin ketone	62	U
5103-71-9	alpha-Chlordane	310	U
5106-74-2	gamma-Chlordane	310	U
8001-35-2	Toxaphene	620	U
12674-11-2	Arochlor-1016	310	U
11104-28-2	Aroclor-1221	310	U
11141-16-5	Aroclor-1232	310	U
53469-21-9	Aroclor-1242	310	U
12672-29-6	Aroclor-1248	310	U
11097-69-1	Aroclor-1254	4486	
11096-82-5	Aroclor-1260	862	

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

E.P.A. SAMPLE NO.

X112

Lab Name: I.E.P.A. - Springfield Contract:SAUGET

Lab Code:_____ Case No.:_____ SAS No.:_____ SDG. No.:_____

Matrix: (soil/water): WATER Lab Sample ID: D190910

Sample wt/vol: 30.340 (g/mL) g Lab File ID:

Level: (low/med) low Date Received: 03-28-1991

% Moisture: not dec. 24.9 dec. Date Extracted: 04-02-1991

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 04-12-1991

GPC Cleanup: (Y/N) Y pH: 6.0 Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	21	U
319-85-7	beta-BHC	21	U
319-86-8	delta-BHC	21	U
58-89-9	gamma-BHC (Lindane)	21	U
76-44-8	Heptachlor	21	U
309-00-2	Aldrin	21	U
1024-57-3	Heptachlor epoxide	21	U
959-98-8	Endosulfan I	21	U
60-57-1	Dieldrin	43	U
72-55-9	4,4'-DDE	43	U
72-20-8	Endrin	43	U
33213-65-9	Endosulfan II	43	U
72-54-8	4,4'-DDD	43	U
1031-07-8	Endosulfan sulfate	43	U
50-29-3	4,4'-DDT	43	U
72-43-5	Methoxychlor	213	U
53494-70-5	Endrin ketone	43	U
5103-71-9	alpha-Chlordane	213	U
5106-74-2	gamma-Chlordane	213	U
8001-35-2	Toxaphene	426	U
12674-11-2	Arochlor-1016	213	U
11104-28-2	Aroclor-1221	213	U
11141-16-5	Aroclor-1232	213	U
53469-21-9	Aroclor-1242	213	U
12672-29-6	Aroclor-1248	213	U
11097-69-1	Aroclor-1254	426	U
11096-82-5	Aroclor-1260	426	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

E.P.A. SAMPLE NO.

X113

Lab Name: I.E.P.A. - Springfield Contract:SAUGET

Lab Code:_____ Case No.:_____ SAS No.:_____ SDG. No.:_____

Matrix: (soil/water): WATER Lab Sample ID: D190911

Sample wt/vol: 30.660 (g/mL) g Lab File ID:

Level: (low/med) low Date Received: 03-28-1991

% Moisture: not dec. 31.8 dec. Date Extracted: 04-02-1991

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 04-12-1991

GPC Cleanup: (Y/N) Y pH: 6.0 Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	23	U
319-85-7	beta-BHC	23	U
319-86-8	delta-BHC	23	U
58-89-9	gamma-BHC (Lindane)	23	U
76-44-8	Heptachlor	23	U
309-00-2	Aldrin	23	U
1024-57-3	Heptachlor epoxide	23	U
959-98-8	Endosulfan I	23	U
60-57-1	Dieldrin	47	U
72-55-9	4,4'-DDE	47	U
72-20-8	Endrin	47	U
33213-65-9	Endosulfan II	47	U
72-54-8	4,4'-DDD	47	U
1031-07-8	Endosulfan sulfate	47	U
50-29-3	4,4'-DDT	47	U
72-43-5	Methoxychlor	8	
53494-70-5	Endrin ketone	47	U
5103-71-9	alpha-Chlordane	235	U
5106-74-2	gamma-Chlordane	235	U
8001-35-2	Toxaphene	469	U
12674-11-2	Arochlor-1016	235	U
11104-28-2	Aroclor-1221	235	U
11141-16-5	Aroclor-1232	235	U
53469-21-9	Aroclor-1242	235	U
12672-29-6	Aroclor-1248	235	U
11097-69-1	Aroclor-1254	469	U
11096-82-5	Aroclor-1260	469	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

E.P.A. SAMPLE NO.

X114

Lab Name: I.E.P.A. - Springfield Contract:SAUGET

Lab Code:_____ Case No.:_____ SAS No.:_____ SDG. No.:_____

Matrix: (soil/water): WATER Lab Sample ID: D190912

Sample wt/vol: 30.440 (g/mL) g Lab File ID:

Level: (low/med) low Date Received: 03-28-1991

% Moisture: not dec. 35.3 dec. Date Extracted: 04-02-1991

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 04-12-1991

GPC Cleanup: (Y/N) Y pH: 6.0 Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	25	U
319-85-7	beta-BHC	25	U
319-86-8	delta-BHC	25	U
58-89-9	gamma-BHC (Lindane)	25	U
76-44-8	Heptachlor	25	U
309-00-2	Aldrin	25	U
1024-57-3	Heptachlor epoxide	25	U
959-98-8	Endosulfan I	25	U
60-57-1	Dieldrin	49	U
72-55-9	4,4'-DDE	49	U
72-20-8	Endrin	49	U
33213-65-9	Endosulfan II	49	U
72-54-8	4,4'-DDD	49	U
1031-07-8	Endosulfan sulfate	49	U
50-29-3	4,4'-DDT	49	U
72-43-5	Methoxychlor	247	U
53494-70-5	Endrin ketone	49	U
5103-71-9	alpha-Chlordane	247	U
5106-74-2	gamma-Chlordane	247	U
8001-35-2	Toxaphene	495	U
12674-11-2	Arochlor-1016	247	U
11104-28-2	Aroclor-1221	247	U
11141-16-5	Aroclor-1232	247	U
53469-21-9	Aroclor-1242	247	U
12672-29-6	Aroclor-1248	247	U
11097-69-1	Aroclor-1254	495	U
11096-82-5	Aroclor-1260	495	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

E.P.A. SAMPLE NO.

PBLKS#1

Lab Name: I.E.P.A. - Springfield Contract:SAUGET

Lab Code:_____ Case No.:_____ SAS No.:_____ SDG. No.:_____

Matrix: (soil/water): WATER Lab Sample ID: D190998BL

Sample wt/vol: 30.240 (g/mL) g Lab File ID:

Level: (low/med) low Date Received: 03-28-1991

% Moisture: not dec. 0.0 dec. Date Extracted: 04-02-1991

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 04-12-1991

GPC Cleanup: (Y/N) Y pH: 6.0 Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	16	U
319-85-7	beta-BHC	16	U
319-86-8	delta-BHC	16	U
58-89-9	gamma-BHC (Lindane)	16	U
76-44-8	Heptachlor	16	U
309-00-2	Aldrin	16	U
1024-57-3	Heptachlor epoxide	16	U
959-98-8	Endosulfan I	16	U
60-57-1	Dieldrin	32	U
72-55-9	4,4'-DDE	32	U
72-20-8	Endrin	32	U
33213-65-9	Endosulfan II	32	U
72-54-8	4,4'-DDD	32	U
1031-07-8	Endosulfan sulfate	32	U
50-29-3	4,4'-DDT	160	U
72-43-5	Methoxychlor	320	U
53494-70-5	Endrin ketone	32	U
5103-71-9	alpha-Chlordane	160	U
5106-74-2	gamma-Chlordane	160	U
8001-35-2	Toxaphene	320	U
12674-11-2	Arochlor-1016	160	U
11104-28-2	Aroclor-1221	160	U
11141-16-5	Aroclor-1232	160	U
53469-21-9	Aroclor-1242	160	U
12672-29-6	Aroclor-1248	160	U
11097-69-1	Aroclor-1254	320	U
11096-82-5	Aroclor-1260	320	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

E.P.A. SAMPLE NO.

X114MS

Lab Name: I.E.P.A. - Springfield Contract:SAUGET

Lab Code:_____ Case No.:_____ SAS No.:_____ SDG. No.:_____

Matrix: (soil/water): WATER Lab Sample ID: D190997MS

Sample wt/vol: 30.620 (g/mL) g Lab File ID:

Level: (low/med) low Date Received: 03-28-1991

% Moisture: not dec. 35.3 dec. Date Extracted: 04-02-1991

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 04-12-1991

GPC Cleanup: (Y/N) Y pH: 6.0 Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	25	U
319-85-7	beta-BHC	25	U
319-86-8	delta-BHC	25	U
58-89-9	gamma-BHC (Lindane)	57	
76-44-8	Heptachlor	57	
309-00-2	Aldrin	55	
1024-57-3	Heptachlor epoxide	25	U
959-98-8	Endosulfan I	25	U
60-57-1	Dieldrin	179	
72-55-9	4,4'-DDE	49	U
72-20-8	Endrin	210	
33213-65-9	Endosulfan II	49	U
72-54-8	4,4'-DDD	49	U
1031-07-8	Endosulfan sulfate	49	U
50-29-3	4,4'-DDT	179	
72-43-5	Methoxychlor	247	U
53494-70-5	Endrin ketone	49	U
5103-71-9	alpha-Chlordane	247	U
5106-74-2	gamma-Chlordane	247	U
8001-35-2	Toxaphene	495	U
12674-11-2	Arochlor-1016	247	U
11104-28-2	Aroclor-1221	247	U
11141-16-5	Aroclor-1232	247	U
53469-21-9	Aroclor-1242	247	U
12672-29-6	Aroclor-1248	247	U
11097-69-1	Aroclor-1254	495	U
11096-82-5	Aroclor-1260	495	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

E.P.A. SAMPLE NO.

X114MSD

Lab Name: I.E.P.A. - Springfield Contract:SAUGET

Lab Code:_____ Case No.:_____ SAS No.:_____ SDG. No.:_____

Matrix: (soil/water): WATER Lab Sample ID: D190997MSD

Sample wt/vol: 30.680 (g/mL) g Lab File ID:

Level: (low/med) low Date Received: 03-28-1991

% Moisture: not dec. 35.3 dec. Date Extracted: 04-02-1991

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 04-12-1991

GPC Cleanup: (Y/N) Y pH: 6.0 Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	25	U
319-85-7	beta-BHC	25	U
319-86-8	delta-BHC	25	U
58-89-9	gamma-BHC (Lindane)	67	
76-44-8	Heptachlor	62	
309-00-2	Aldrin	61	
1024-57-3	Heptachlor epoxide	25	U
959-98-8	Endosulfan I	25	U
60-57-1	Dieldrin	190	
72-55-9	4,4'-DDE	49	U
72-20-8	Endrin	225	
33213-65-9	Endosulfan II	49	U
72-54-8	4,4'-DDD	49	U
1031-07-8	Endosulfan sulfate	49	U
50-29-3	4,4'-DDT	189	U
72-43-5	Methoxychlor	247	U
53494-70-5	Endrin ketone	49	U
5103-71-9	alpha-Chlordane	247	U
5106-74-2	gamma-Chlordane	247	U
8001-35-2	Toxaphene	495	U
12674-11-2	Arochlor-1016	247	U
11104-28-2	Aroclor-1221	247	U
11141-16-5	Aroclor-1232	247	U
53469-21-9	Aroclor-1242	247	U
12672-29-6	Aroclor-1248	247	U
11097-69-1	Aroclor-1254	495	U
11096-82-5	Aroclor-1260	495	U

PERKIN-ELMER CLAS 2000 04/15/91 08:05:35

EXTERNAL STANDARD

SAMPLE: 0412H5B .17 INST:22 VIAL: 0 SEQ NUMBER:017
TEST : DATE-TIME COLLECTED : 04/13/91 01:02:28
COLLECTION TIME : 29.88 DATE-TIME PROCESSED : 04/13/91 01:33:16
METHOD: CLPA / CLPA REV #: 00015 ANALYST: CELESTE SAMP RATE: 1.56

SAMPLE WT : 1.0000 STANDARD WT : 1.0000 DILUTION FACTOR : 1.0000

PK NO	RT MINUTES	PEAK HEIGHT	COMPONENT NAME
001	1.672	493	
002	2.026	323	
003	6.816	80	DDT
004	19.617	1494	
005	23.659	335	
006	24.880	2241	DBC
		4966	

90897

1.0ml of 10ml

$\frac{1}{2}$ ext

PERKIN-ELMER CLAS 2000 04/15/91 08:05:35

EXTERNAL STANDARD

SAMPLE: 0412H5B .18 INST:22 VIAL: 0 SEQ NUMBER:018
TEST : DATE-TIME COLLECTED : 04/13/91 01:37:16
COLLECTION TIME : 29.88 DATE-TIME PROCESSED : 04/13/91 02:08:15
METHOD: CLPA / CLPA REV #: 00015 ANALYST: CELESTE SAMP RATE: 1.56

SAMPLE WT : 1.0000 STANDARD WT : 1.0000 DILUTION FACTOR : 1.0000

PK NO	RT MINUTES	PEAK HEIGHT	COMPONENT NAME
001	1.483	2738	
002	2.030	6962	
003	2.549	262	
004	3.079	3148	
005	3.347	2356	
006	3.772	2408	
007	4.690	24898	
008	5.109	3609	-Hept.
009	5.366	894	
010	5.705	8644	no
011	7.080	10967	
012	8.334	2188	no Ald.
013	8.875	1805	
014	9.520	6747	
015	10.158	7914	
016	11.128	24523	γ chlord
017	11.742	29984	~~chlordane~~ α chl.
018	13.226	7871	no DDE
019	13.728	2578	
020	14.581	727	
021	15.221	423	
022	16.006	1025	
023	16.505	4179	
024	17.822	5331	
025	18.736	897	no DDT
026	19.622	1199	
027	21.259	241	
028	22.400	164	
029	23.653	366	Meth
030	24.883	2203	DBC
031	26.539	265	
		167516	

90898

1.0 ml of 10 ml

½ ext

PERKIN-ELMER CLAS 2000 04/15/91 08:05:35

EXTERNAL STANDARD

SAMPLE: 0412H5B .19 INST:22 VIAL: 0 SEQ NUMBER:019
TEST : DATE-TIME COLLECTED : 04/13/91 02:12:01
COLLECTION TIME : 29.88 DATE-TIME PROCESSED : 04/13/91 02:42:28
METHOD: CLPA / CLPA REV #: 00015 ANALYST: CELESTE SAMP RATE: 1.56

SAMPLE WT : 1.0000 STANDARD WT : 1.0000 DILUTION FACTOR : 1.0000

PK NO	RT MINUTES	PEAK HEIGHT	COMPONENT NAME
001	2.027	233	
002	5.991	1047	ALDRIN
003	14.688	1191	ENDRIN
004	18.423	2337	DDT
005	20.439	107	EA
006	24.877	1462	DBC
007	26.624	86	EK
		6463	

EVAL B
1.0 ml

PERKIN-ELMER CLAS 2000 04/15/91 08:05:35

EXTERNAL STANDARD

SAMPLE: 0412H5B .20 INST:22 VIAL: 0 SEQ NUMBER:020
TEST : DATE-TIME COLLECTED : 04/13/91 02:46:48
COLLECTION TIME : 29.88 DATE-TIME PROCESSED : 04/13/91 03:17:14
METHOD: CLPA / CLPA REV #: 00015 ANALYST: CELESTE SAMP RATE: 1.56

SAMPLE WT : 1.0000 STANDARD WT : 1.0000 DILUTION FACTOR : 1.0000

PK NO	RT MINUTES	PEAK HEIGHT	COMPONENT NAME
001	1.483	2634	
002	2.031	6942	
003	2.562	249	
004	3.080	2915	
005	3.348	2229	
006	3.774	2104	
007	4.691	23277	?BHC ?
008	5.110	6082	~~?BHC~~ Hept.
009	5.367	576	
010	5.709	7448	
011	5.914	5593	Aldrin
012	7.080	10402	
013	8.336	2194	
014	8.874	1690	
015	9.518	6604	
016	10.160	7629	
017	11.126	22194	
018	11.738	27330	
019	13.256	9280	
020	13.720	2624	Dial.
021	14.688	3497	Endrin
022	15.994	928	
023	16.506	4181	
024	17.820	4739	
025	~~18.433~~	2421	DDT
026	19.620	1122	
027	21.248	234	
028	22.411	147	
029	23.669	374	
030	24.879	2265	DBC
031	26.560	365	
032	29.099	64	
		170333	

90949 MS

1.0 ml of 10 ml

½ ext

use Hept & Ald.

Hept. 6082/1625 = 374%

Ald. 5593/1037 = 539

PERKIN-ELMER CLAS 2000 04/15/91 08:05:35

EXTERNAL STANDARD

SAMPLE: 0412H5B .21 INST:22 VIAL: 0 SEQ NUMBER:021
TEST : DATE-TIME COLLECTED : 04/13/91 03:21:35
COLLECTION TIME : 29.88 DATE-TIME PROCESSED : 04/13/91 03:52:16
METHOD: CLPA / CLPA REV #: 00015 ANALYST: CELESTE SAMP RATE: 1.56

SAMPLE WT : 1.0000 STANDARD WT : 1.0000 DILUTION FACTOR : 1.0000

PK NO	RT MINUTES	PEAK HEIGHT	COMPONENT NAME
001	1.482	2448	
002	1.673	565	
003	2.030	6621	
004	2.560	236	
005	3.079	2835	
006	3.347	2141	
007	3.773	1986	
008	4.689	23217	BHC
009	5.108	6114	Hept
010	5.365	526	
011	5.708	7328	
012	5.914	5388	Aldrin
013	7.079	10394	
014	8.332	2458	
015	8.873	1650	
016	9.518	6583	
017	10.154	7512	
018	11.125	21646	
019	11.737	26997	
020	13.251	9185	
021	13.710	2665	Dieldrin
022	14.687	3474	Endrin
023	16.006	935	
024	16.505	4197	
025	17.822	4692	
026	18.432	2603	DDT
027	19.622	1146	
028	21.243	237	
029	22.400	158	
030	23.632	372	
031	24.875	2253	DBC
032	26.544	373	
033	28.800	65	
		169000	

90949 MSD

1.0ml of 10ml

½ ext

use Hept + Ald from here

Hept $\left(\frac{6114}{1625} \times 7 \times .01\right) / \times \frac{10}{1} = 37\%$

Ald. $\frac{5388}{1037} = 520\%$

PERKIN-ELMER CLAS 2000 04/15/91 08:05:35

EXTERNAL STANDARD

SAMPLE: 0412H5B .22 INST:22 VIAL: 0 SEQ NUMBER:022
TEST : DATE-TIME COLLECTED : 04/13/91 03:56:23
COLLECTION TIME : 29.88 DATE-TIME PROCESSED : 04/13/91 04:27:07
METHOD: CLPA / CLPA REV #: 00015 ANALYST: CELESTE SAMP RATE: 1.56

SAMPLE WT : 1.0000 STANDARD WT : 1.0000 DILUTION FACTOR : 1.0000

PK NO	RT MINUTES	PEAK HEIGHT	COMPONENT NAME
001	2.027	412	
002	23.653	343	
003	24.883	2336	DBC
		3091	

PBLK w1

90950 PBLKW

1.0ml of 10ml

½ ext

PERKIN-ELMER CLAS 2000 04/15/91 08:05:35

EXTERNAL STANDARD

SAMPLE: 0412H5B .23 INST:22 VIAL: 0 SEQ NUMBER:023
TEST : DATE-TIME COLLECTED : 04/13/91 04:31:06
COLLECTION TIME : 29.88 DATE-TIME PROCESSED : 04/13/91 05:01:45
METHOD: CLPA / CLPA REV #: 00015 ANALYST: CELESTE SAMP RATE: 1.56

SAMPLE WT : 1.0000 STANDARD WT : 1.0000 DILUTION FACTOR : 1.0000

PK NO	RT MINUTES	PEAK HEIGHT	COMPONENT NAME
001	4.693	1926	
002	4.969	444	
003	5.763	565	no Hept.
004	6.101	556	
005	6.670	1085	
006	7.125	1547	
007	7.537	1368	
008	8.306	1749	
009	9.133	1843	-Hept Epox.
010	9.667	3805	
011	10.209	862	
012	11.124	20754	γ-Chl.
013	11.753	41800	α-Chl.
014	13.222	10198	
015	13.737	1193	
016	14.457	571	
017	15.324	925	
018	15.992	862	
019	16.516	10711	
020	17.817	12511	
021	18.702	2544	
022	19.573	1236	
023	21.269	346	
024	22.336	156	
025	23.653	660	
026	24.887	2241	DBC
027	27.771	321	
028	28.843	258	
		123037	

90900

1.0 ml of 20 ml

½ ext

PERKIN-ELMER CLAS 2000 04/15/91 08:05:35

EXTERNAL STANDARD

SAMPLE: 0412H5B .24 INST:22 VIAL: 0 SEQ NUMBER:024
TEST : DATE-TIME COLLECTED : 04/13/91 05:05:51
COLLECTION TIME : 29.88 DATE-TIME PROCESSED : 04/13/91 05:36:48
METHOD: CLPA / CLPA REV #: 00015 ANALYST: CELESTE SAMP RATE: 1.56

SAMPLE WT : 1.0000 STANDARD WT : 1.0000 DILUTION FACTOR : 1.0000

PK NO	RT MINUTES	PEAK HEIGHT	COMPONENT NAME
001	4.987	439	
002	8.704	96	
003	9.760	130	
004	12.331	100	— DDE
005	14.661	183	
006	15.603	219	
007	18.061	1765	
008	22.331	150	
009	23.659	364	
010	24.875	2206	— DBC
011	27.776	930	
012	28.789	350	
		6932	

90901
1.0ml of 20ml
½ ext

PERKIN-ELMER CLAS 2000 04/15/91 08:05:35

EXTERNAL STANDARD

SAMPLE: 0412H5B .25 INST:22 VIAL: 0 SEQ NUMBER:025
TEST : DATE-TIME COLLECTED : 04/13/91 05:40:36
COLLECTION TIME : 29.88 DATE-TIME PROCESSED : 04/13/91 06:11:03
METHOD: CLPA / CLPA REV #: 00015 ANALYST: CELESTE SAMP RATE: 1.56

SAMPLE WT : 1.0000 STANDARD WT : 1.0000 DILUTION FACTOR : 1.0000

PK NO	RT MINUTES	PEAK HEIGHT	COMPONENT NAME
001	2.027	343	
002	4.534	1529	~~8-BHC~~
003	5.110	1648	Heptachlor
004	5.991	989	Aldrin
005	8.613	250	
006	9.140	799	Hept. Epox
007	10.727	1236	Endo I
008	13.376	1069	— Dieldrin
009	14.901	698	~~Endo II~~
010	17.659	5315	~~4,4' DDT~~ Endo II
011	18.368	5449	~~Endrin Aldehyde~~ DDT
012	20.397	2032	— Endrin Aldehyde
013	23.748	4830	— Methoxychlor
014	24.877	2925	— DBC
		29112	

IND A

1.0 ml

PERKIN-ELMER CLAS 2000 04/15/91 08:05:35

EXTERNAL STANDARD

SAMPLE: 0412H5B .26 INST:22 VIAL: 0 SEQ NUMBER:026
TEST : DATE-TIME COLLECTED : 04/13/91 06:15:04
COLLECTION TIME : 29.88 DATE-TIME PROCESSED : 04/13/91 06:45:47
METHOD: CLPA / CLPA REV #: 00015 ANALYST: CELESTE SAMP RATE: 1.56

SAMPLE WT : 1.0000 STANDARD WT : 1.0000 DILUTION FACTOR : 1.0000

PK NO	RT MINUTES	PEAK HEIGHT	COMPONENT NAME
001	1.566	740	
002	4.091	610	
003	4.983	424	
004	8.213	599	no Pg
005	10.357	647	
006	12.334	965	DD2
007	13.083	198	
008	14.203	227	
009	15.595	560	
010	16.635	428	
011	17.580	1285	ENDO II
012	18.080	576	
013	20.003	1625	
014	21.504	385	
015	22.325	796	
016	23.669	466	meth
017	24.873	1827	DBC
018	25.584	998	
019	27.785	2437	
020	28.766	1014	
		16807	

90902

1.0 ml of 20 ml

$\frac{1}{2}$ ext

PERKIN-ELMER CLAS 2000 04/15/91 08:05:35

EXTERNAL STANDARD

SAMPLE: 0412H5B .27 INST:22 VIAL: 0 SEQ NUMBER:027
TEST : DATE-TIME COLLECTED : 04/13/91 09:47:20
COLLECTION TIME : 29.88 DATE-TIME PROCESSED : 04/13/91 10:18:16
METHOD: CLPA / CLPA REV #: 00015 ANALYST: CELESTE SAMP RATE: 1.56

SAMPLE WT : 1.0000 STANDARD WT : 1.0000 DILUTION FACTOR : 1.0000

PK NO	RT MINUTES	PEAK HEIGHT	COMPONENT NAME
		0	

FALSE INJECTION

PERKIN-ELMER CLAS 2000 04/15/91 08:05:35

EXTERNAL STANDARD

SAMPLE: 0412H5B .28 INST:22 VIAL: 0 SEQ NUMBER:028
TEST : DATE-TIME COLLECTED : 04/13/91 10:22:13
COLLECTION TIME : 29.88 DATE-TIME PROCESSED : 04/13/91 10:52:40
METHOD: CLPA / CLPA REV #: 00015 ANALYST: CELESTE SAMP RATE: 1.56

SAMPLE WT : 1.0000 STANDARD WT : 1.0000 DILUTION FACTOR : 1.0000

PK NO	RT MINUTES	PEAK HEIGHT	COMPONENT NAME
001	4.700	861	
002	5.114	3058	-Hept
003	5.781	247	
004	6.707	886	
005	7.136	620	
006	7.547	575	
007	8.320	1058	
008	9.162	12803	Hx
009	10.293	493	
010	11.150	13399	δ
011	11.815	12466	α
012	13.248	2807	Dield
013	14.304	168	
014	15.371	399	
015	16.021	396	
016	16.540	3192	
017	17.834	3942	
018	18.460	1584	DDT
019	20.017	977	
020	21.451	221	
021	23.701	354	-meth
022	24.917	1890	DBC
023	26.901	180	
024	29.003	131	
		62707	

90903

1.0ml of 20ml

out of α wind. - ck gels

1/2 ext

PERKIN-ELMER CLAS 2000 04/21/91 21:59:42

PROCESSED BY GRAPHICAL ANALYSIS

EXTERNAL STANDARD

SAMPLE: 0412H5B .29 INST:22 VIAL: 0 SEQ NUMBER:029

TEST : DATE-TIME COLLECTED : 04/13/91 10:57:03

COLLECTION TIME : 29.88 DATE-TIME PROCESSED : 4/21/91 21:46:25

METHOD: CLPA / CLPA REV #: 00015 ANALYST: CELESTE SAMP RATE: 1.56

SAMPLE WT : 1.0000 STANDARD WT : 1.0000 DILUTION FACTOR : 1.0000

PK NO	RT MINUTES	PEAK HEIGHT	COMPONENT NAME
001	1.385	2056	
002	1.797	439	
003	2.481	1739	
004	2.862	1086	
005	3.087	944	
006	3.661	776	
007	4.098	826	
008	4.739	2171	
009	5.109	443	
010	5.840	9242	
011	6.820	5137	-BBHC
012	7.240	2795	
013	8.128	1759	
014	8.733	14234	-1254
015	9.856	13692	
016	11.630	4398	
017	12.245	5730	
018	13.074	16726	
019	14.208	9206	
020	14.651	11752	-LNDRIN
021	15.628	12005	1260
022	16.318	7088	
023	16.675	8843	
024	17.607	22808	ENDO II
025	18.151	5356	
026	19.872	5745	
027	21.520	2270	
028	22.347	7445	
029	23.669	481	
030	24.928	1725	DBC
031	25.664	5683	
032	27.829	2549	
033	28.875	1480	
		188629	

90904

1 l of 20 ml

1/2 ent

PERKIN-ELMER CLAS 2000 04/21/91 22:00:01
PROCESSED BY GRAPHICAL ANALYSIS
EXTERNAL STANDARD

SAMPLE: 0412H5B .30 INST:22 VIAL: 0 SEQ NUMBER:030
TEST : DATE-TIME COLLECTED : 04/13/91 11:31:52
COLLECTION TIME : 29.88 DATE-TIME PROCESSED : 4/21/91 21:54:50
METHOD: CLPA / CLPA REV #: 00015 ANALYST: CELESTE SAMP RATE: 1.56

SAMPLE WT : 1.0000 STANDARD WT : 1.0000 DILUTION FACTOR : 1.0000

90905
1 l of 20 l
1/2 ept

X 07

PK NO	RT MINUTES	PEAK HEIGHT	COMPONENT NAME
001	1.218	9817	
002	1.384	15123	
003	1.478	3347	
004	1.630	862	
005	1.851	19222	
006	2.197	705	
007	2.480	3323	
008	2.857	5993	
009	3.084	55889	
010	3.651	9501	no P
011	3.906	1287	
012	4.101	4597	
013	4.504	2165	
014	4.739	18492	
015	5.143	2790	
016	5.504	2921	
017	5.839	38242	
018	6.819	21477	
019	7.241	11956	
020	8.116	7417	
021	8.732	52573	← 1254
022	9.855	42026	
023	11.625	12124	
024	12.249	15731	
025	13.069	51399	
026	13.675	1753	
027	14.207	27528	
028	14.650	35042	ENDRIN
029	15.253	4440	
030	15.633	33611	
031	16.322	20984	→ 1260
032	16.675	25924	
033	17.614	68933	
034	18.148	29452	
035	19.854	17978	
036	21.529	7239	
037	22.353	24804	
038	23.627	1376	
039	24.875	2112	✓ DBC
040	25.672	19159	
041	27.204	5434	
042	27.840	5436	

PERKIN-ELMER CLAS 2000 04/15/91 08:05:35

EXTERNAL STANDARD

SAMPLE: 0412H5B .31 INST:22 VIAL: 0 SEQ NUMBER:031
TEST : DATE-TIME COLLECTED : 04/13/91 12:06:43
COLLECTION TIME : 29.88 DATE-TIME PROCESSED : 04/13/91 12:37:27
METHOD: CLPA / CLPA REV #: 00015 ANALYST: CELESTE SAMP RATE: 1.56

SAMPLE WT : 1.0000 STANDARD WT : 1.0000 DILUTION FACTOR : 1.0000

PK NO	RT MINUTES	PEAK HEIGHT	COMPONENT NAME
001	1.278	1917	
002	1.731	2036	
003	2.198	5995	
004	2.478	3916	
005	2.859	3306	
006	3.083	882	
007	3.577	353	
008	4.092	1065	
009	4.737	539	
010	5.482	343	
011	5.808	518	no B
012	6.807	286	
013	8.214	471	
014	8.725	457	
015	9.845	227	
016	10.374	691	
017	10.925	626	
018	12.352	215	
019	14.897	2649	no Endrin
020	15.953	468	
021	18.195	36565	
022	21.336	2657	
023	22.859	404	
024	24.785	5178	— DBC
025	27.029	267	
026	28.800	400	
		72431	

90906

1.0ml of 20ml

½ ext

PERKIN-ELMER CLAS 2000 04/15/91 08:05:35

EXTERNAL STANDARD

SAMPLE: 0412H5B .32 INST:22 VIAL: 0 SEQ NUMBER:032
TEST : DATE-TIME COLLECTED : 04/13/91 12:41:36
COLLECTION TIME : 29.88 DATE-TIME PROCESSED : 04/13/91 13:12:34
METHOD: CLPA / CLPA REV #: 00015 ANALYST: CELESTE SAMP RATE: 1.56

SAMPLE WT : 1.0000 STANDARD WT : 1.0000 DILUTION FACTOR : 1.0000

PK NO	RT MINUTES	PEAK HEIGHT	COMPONENT NAME
001	2.029	353	
002	5.999	910	Aldrin
003	14.699	1204	Endrin
004	18.440	3329	DDT
005	21.376	1487	
006	24.917	1400	DBC
		8683	

EVAL B
1.0 ml

PERKIN-ELMER CLAS 2000 04/15/91 08:05:35

EXTERNAL STANDARD

SAMPLE: 0412H5B .33 INST:22 VIAL: 0 SEQ NUMBER:033
TEST : DATE-TIME COLLECTED : 04/13/91 13:16:27
COLLECTION TIME : 29.88 DATE-TIME PROCESSED : 04/13/91 13:47:13
METHOD: CLPA / CLPA REV #: 00015 ANALYST: CELESTE SAMP RATE: 1.56

SAMPLE WT : 1.0000 STANDARD WT : 1.0000 DILUTION FACTOR : 1.0000

PK NO	RT MINUTES	PEAK HEIGHT	COMPONENT NAME
001	1.386	825	
002	1.851	512	
003	2.201	620	
004	2.480	1596	
005	2.836	1094	
006	3.085	4480	
007	4.094	1090	
008	4.752	367	
009	5.827	949	
010	6.827	415	
011	8.229	940	
012	8.747	944	
013	9.856	575	
014	10.380	701	
015	12.395	1480	
016	13.082	2705	
017	14.171	2060	
018	15.610	662	
019	16.316	347	
020	16.656	390	
021	17.611	1309	
022	18.331	894	
023	20.014	1633	
024	21.515	376	
025	22.363	538	
026	22.917	438	
027	23.701	342	
028	24.922	1563	— DBC
029	27.008	403	
030	27.829	571	
031	28.907	189	
		31008	

90907
1.0ml of 20ml

½ ext

PERKIN-ELMER CLAS 2000 04/15/91 08:05:35

EXTERNAL STANDARD

SAMPLE: 0412H5B .34 INST:22 VIAL: 0 SEQ NUMBER:034
TEST : DATE-TIME COLLECTED : 04/13/91 13:51:16
COLLECTION TIME : 29.88 DATE-TIME PROCESSED : 04/13/91 14:21:44
METHOD: CLPA / CLPA REV #: 00015 ANALYST: CELESTE SAMP RATE: 1.56

SAMPLE WT : 1.0000 STANDARD WT : 1.0000 DILUTION FACTOR : 1.0000

PK NO	RT MINUTES	PEAK HEIGHT	COMPONENT NAME
001	4.096	295	
002	4.990	343	
003	8.228	343	
004	10.973	275	
005	12.368	312	- DDE
006	14.965	412	
007	18.131	3296	
008	20.021	497	
009	21.456	470	
010	23.723	259	
011	24.917	1680	— DBC
012	26.987	265	
		8447	

X110

90908

1.0ml of 20ml

½ ext

PERKIN-ELMER CLAS 2000 04/15/91 08:05:35

EXTERNAL STANDARD

SAMPLE: 0412H5B .35 INST:22 VIAL: 0 SEQ NUMBER:035
TEST : DATE-TIME COLLECTED : 04/13/91 14:26:02
COLLECTION TIME : 29.88 DATE-TIME PROCESSED : 04/13/91 14:56:45
METHOD: CLPA / CLPA REV #: 00015 ANALYST: CELESTE SAMP RATE: 1.56

SAMPLE WT : 1.0000 STANDARD WT : 1.0000 DILUTION FACTOR : 1.0000

PK NO	RT MINUTES	PEAK HEIGHT	COMPONENT NAME
001	1.386	746	
002	2.480	1216	
003	2.858	631	
004	3.085	519	
005	3.657	328	
006	4.096	720	
007	4.737	1822	
008	5.119	626	
009	5.840	5855	
010	6.821	3788	~ β
011	7.243	2695	
012	8.111	1150	
013	8.732	8163	1254
014	9.873	6982	
015	11.634	2253	
016	12.299	2411	- DDE
017	13.054	7418	
018	13.685	397	
019	14.194	4261	
020	14.644	4735	ENDRIN
021	15.624	5449	1260
022	16.314	3218	
023	16.672	3295	
024	17.598	9842	Endo II
025	18.149	2821	
026	19.925	2365	
027	21.532	800	
028	22.338	3129	
029	23.701	436	
030	24.928	1627	— DBC
031	25.666	2252	
032	27.157	639	
033	27.819	696	
034	28.875	311	
		93596	

90909 X111

1.0 ml of 20 ml

½ ext

PERKIN-ELMER CLAS 2000 04/15/91 08:05:35

EXTERNAL STANDARD

SAMPLE: 0412H5B .36 INST:22 VIAL: 0 SEQ NUMBER:036
TEST : DATE-TIME COLLECTED : 04/13/91 15:00:53
COLLECTION TIME : 29.88 DATE-TIME PROCESSED : 04/13/91 15:31:48
METHOD: CLPA / CLPA REV #: 00015 ANALYST: CELESTE SAMP RATE: 1.56

SAMPLE WT : 1.0000 STANDARD WT : 1.0000 DILUTION FACTOR : 1.0000

PK NO	RT MINUTES	PEAK HEIGHT	COMPONENT NAME
001	2.028	327	
002	4.997	428	
003	8.736	120	
004	9.867	117	
005	15.040	372	
006	18.118	5192	
007	21.344	396	
008	24.913	2286	DBC
		9238	

X112

90910

1.0 ml of 20 ml

½ ext

ND

PERKIN-ELMER CLAS 2000 04/15/91 08:05:35

EXTERNAL STANDARD

SAMPLE: 0412H5B .37 INST:22 VIAL: 0 SEQ NUMBER:037
TEST : DATE-TIME COLLECTED : 04/13/91 15:35:42
COLLECTION TIME : 29.88 DATE-TIME PROCESSED : 04/13/91 16:06:26
METHOD: CLPA / CLPA REV #: 00015 ANALYST: CELESTE SAMP RATE: 1.56

SAMPLE WT : 1.0000 STANDARD WT : 1.0000 DILUTION FACTOR : 1.0000

PK NO	RT MINUTES	PEAK HEIGHT	COMPONENT NAME
001	2.027	306	
002	4.097	159	
003	5.003	396	
004	11.893	98	
005	18.251	167	Math
006	23.712	343	
007	24.918	1497	DBC
		2966	

X113

90911

1.0 ml of 20 ml

½ ext

PERKIN-ELMER CLAS 2000 04/15/91 11:23:26

EXTERNAL STANDARD

SAMPLE: 0412H5B .38 INST:22 VIAL: 0 SEQ NUMBER:038
TEST : DATE-TIME COLLECTED : 04/13/91 16:10:33
COLLECTION TIME : 29.88 DATE-TIME PROCESSED : 04/13/91 16:41:00
METHOD: CLPA / CLPA REV #: 00015 ANALYST: CELESTE SAMP RATE: 1.56

SAMPLE WT : 1.0000 STANDARD WT : 1.0000 DILUTION FACTOR : 1.0000

PK NO	RT MINUTES	PEAK HEIGHT	COMPONENT NAME
001	2.030	245	
002	3.597	1309	α-BHC
003	6.001	1598	Aldrin
004	7.041	1026	β-BHC
005	8.176	1100	Δ-BHC
006	11.159	726	γ-Chlordane
007	11.706	1601	α-Chlordane
008	12.373	572	DDE
009	14.705	822	Endrin
010	17.479	1434	DDD
011	23.115	1226	Endosulfan Sulfate
012	24.918	2265	DDT
013	26.651	1084	Endrin Ketone
		15008	

INDB

1.0 ml

PERKIN-ELMER CLAS 2000 04/15/91 08:05:35

EXTERNAL STANDARD

SAMPLE: 0412H5B .39 INST:22 VIAL: 0 SEQ NUMBER:039
TEST : DATE-TIME COLLECTED : 04/13/91 16:45:19
COLLECTION TIME : 29.88 DATE-TIME PROCESSED : 04/13/91 17:16:16
METHOD: CLPA / CLPA REV #: 00015 ANALYST: CELESTE SAMP RATE: 1.56

SAMPLE WT : 1.0000 STANDARD WT : 1.0000 DILUTION FACTOR : 1.0000

PK NO	RT MINUTES	PEAK HEIGHT	COMPONENT NAME
001	1.566	329	
002	5.002	660	
003	8.768	50	
004	17.600	239	
005	20.027	110	
006	23.723	130	
007	24.916	1774 —	DBC
		3292	

90912
1.0ml of 20ml
½ ext

X113
ND

PERKIN-ELMER CLAS 2000 04/15/91 11:07:31

EXTERNAL STANDARD

SAMPLE: 0412H5B .40 INST:22 VIAL: 0 SEQ NUMBER:040
TEST : DATE-TIME COLLECTED : 04/13/91 17:20:05
COLLECTION TIME : 29.88 DATE-TIME PROCESSED : 04/13/91 17:50:49
METHOD: CLPA / CLPA REV #: 00015 ANALYST: CELESTE SAMP RATE: 1.56

SAMPLE WT : 1.0000 STANDARD WT : 1.0000 DILUTION FACTOR : 1.0000

PK NO	RT MINUTES	PEAK HEIGHT	COMPONENT NAME
001	1.495	480	
002	4.542	3961	
003	5.116	4464	
004	6.002	2549	
005	12.395	97	
006	13.391	4371	
007	14.713	4422	
008	18.443	4080	
009	20.480	284	
010	24.928	1858	DBC
011	26.665	234	
		26800	

90997 MS
1.0ml of 20ml
½ ext

PERKIN-ELMER CLAS 2000 04/15/91 08:05:35

EXTERNAL STANDARD

SAMPLE: 0412H5B .41 INST:22 VIAL: 0 SEQ NUMBER:041
TEST : DATE-TIME COLLECTED : 04/14/91 19:24:18
COLLECTION TIME : 29.88 DATE-TIME PROCESSED : 04/14/91 19:55:15
METHOD: CLPA / CLPA REV #: 00015 ANALYST: CELESTE SAMP RATE: 1.56

SAMPLE WT : 1.0000 STANDARD WT : 1.0000 DILUTION FACTOR : 1.0000

PK NO	RT MINUTES	PEAK HEIGHT	COMPONENT NAME
		0	

FALSE INJECTION

PERKIN-ELMER CLAS 2000 04/15/91 11:07:48

EXTERNAL STANDARD

SAMPLE: 0412H5B .42 INST:22 VIAL: 0 SEQ NUMBER:042
TEST : DATE-TIME COLLECTED : 04/14/91 19:59:54
COLLECTION TIME : 29.88 DATE-TIME PROCESSED : 04/14/91 20:30:23
METHOD: CLPA / CLPA REV #: 00015 ANALYST: CELESTE SAMP RATE: 1.56

SAMPLE WT : 1.0000 STANDARD WT : 1.0000 DILUTION FACTOR : 1.0000

PK NO	RT MINUTES	PEAK HEIGHT	COMPONENT NAME
001	2.503	1493	
002	2.839	5943	
003	4.999	541	
005	12.368	115	
006	13.984	450	
007	20.011	86	
008	23.680	353	
009	24.917	1973	DBC
		10954	

not conf.

90998 PBLK 51

1.0 ml of 20 ml

½ ext

PERKIN-ELMER CLAS 2000 04/15/91 08:05:35

EXTERNAL STANDARD

SAMPLE: 0412H5B .43 INST:22 VIAL: 0 SEQ NUMBER:043
TEST : DATE-TIME COLLECTED : 04/14/91 20:34:43
COLLECTION TIME : 29.88 DATE-TIME PROCESSED : 04/14/91 21:05:09
METHOD: CLPA / CLPA REV #: 00015 ANALYST: CELESTE SAMP RATE: 1.56

SAMPLE WT : 1.0000 STANDARD WT : 1.0000 DILUTION FACTOR : 1.0000

PK NO	RT MINUTES	PEAK HEIGHT	COMPONENT NAME
001	1.221	1036	
002	1.387	1634	
003	1.853	2030	
004	2.479	481	
005	2.857	775	
006	3.085	7409	
007	3.652	1588	
008	4.100	727	
009	4.736	2588	
010	5.141	440	
011	5.835	6499	
012	6.816	3408	
013	7.237	1773	
014	8.115	1109	
015	8.726	8426	
016	9.846	7091	
017	11.611	1926	
018	12.240	2211	
019	13.056	7983	
020	13.661	307	
021	14.188	4400	
022	14.638	5498	
023	15.618	5687	
024	16.309	3277	
025	16.664	3353	
026	17.594	9971	
027	18.119	2886	
028	19.883	2462	
029	21.515	916	
030	22.336	3645	
031	25.643	2631	
032	27.163	655	
033	27.810	744	
034	28.853	321	
		105887	

90905
1:10 of 20ml
1.0 ul
½ ext

this area processed by graphical analysis
DBC ?

PERKIN-ELMER CLAS 2000 05/06/91 15:55:05
PROCESSED BY GRAPHICAL ANALYSIS
EXTERNAL STANDARD

SAMPLE: 0412H5B .43 INST:22 VIAL: 0 SEQ NUMBER:043
TEST : DATE-TIME COLLECTED : 04/14/91 20:34:43
COLLECTION TIME : 29.88 DATE-TIME PROCESSED : 5/ 6/91 15:47:15
METHOD: CLPA / CLPA REV #: 00044 ANALYST: CELESTE SAMP RATE: 1.56

SAMPLE WT : 1.0000 STANDARD WT : 1.0000 DILUTION FACTOR : 1.0000

PK NO	RT MINUTES	PEAK HEIGHT	COMPONENT NAME
001	21.493	718	
002	22.325	3107	
004	23.627	109	
005	24.853	80	
006	24.939	78	
008	25.653	2200	
		6292	

90905
1:10 of 20 ml
1.0 l
½ ext

see original for rest of pps.

PERKIN-ELMER CLAS 2000 04/15/91 11:08:02

EXTERNAL STANDARD

SAMPLE: 0412H5B .44 INST:22 VIAL: 0 SEQ NUMBER:044
TEST : DATE-TIME COLLECTED : 04/14/91 21:09:33
COLLECTION TIME : 29.88 DATE-TIME PROCESSED : 04/14/91 21:40:19
METHOD: CLPA / CLPA REV #: 00015 ANALYST: CELESTE SAMP RATE: 1.56

SAMPLE WT : 1.0000 STANDARD WT : 1.0000 DILUTION FACTOR : 1.0000

PK NO	RT MINUTES	PEAK HEIGHT	COMPONENT NAME
001	5.985	1020	Aldrin
003	14.684	1508	Endrin
004	18.375	6496	DDT
005	21.184	311	
006	24.858	1821	DBC
		11156	

EVAL B

1.0 ml

PERKIN-ELMER CLAS 2000 04/15/91 08:05:35

EXTERNAL STANDARD

SAMPLE: 0412H5B .45 INST:22 VIAL: 0 SEQ NUMBER:045
TEST : DATE-TIME COLLECTED : 04/14/91 21:44:24
COLLECTION TIME : 29.88 DATE-TIME PROCESSED : 04/14/91 22:15:21
METHOD: CLPA / CLPA REV #: 00015 ANALYST: CELESTE SAMP RATE: 1.56

SAMPLE WT : 1.0000 STANDARD WT : 1.0000 DILUTION FACTOR : 1.0000

PK NO	RT MINUTES	PEAK HEIGHT	COMPONENT NAME
001	1.280	2941	
002	1.733	2028	
003	2.198	6213	
004	2.478	4053	
005	2.857	3838	
006	3.082	1004	
007	3.584	521	
008	4.087	1348	
009	4.729	567	
010	4.992	563	
011	5.479	420	
012	5.811	678	
013	6.788	514	
014	7.253	251	
015	8.193	622	
016	8.693	617	
017	9.803	310	
018	10.342	940	
019	10.896	689	
020	12.309	307	
021	13.056	493	
022	14.144	437	
023	14.837	629	
024	15.930	904	
025	16.640	386	
026	17.579	747	
027	18.307	4927	
028	18.880	344	
029	19.973	1215	
030	21.456	296	
031	22.806	829	
032	23.696	480	
033	24.868	1637 ✓	
034	25.669	390	
035	26.933	403	
036	27.765	388	
037	28.832	136	
		43065	

90906
1:10 of 20 l
1/2 ft
[illegible]

need from CLAS
46 INDA.
47 INDB

PERKIN-ELMER CLAS 2000 05/02/91 14:47:36

EXTERNAL STANDARD

SAMPLE: 0412H5B .46 INST:22 VIAL: 0 SEQ NUMBER:040
TEST : DATE-TIME COLLECTED : 04/14/91 22:19:18
COLLECTION TIME : 29.88 DATE-TIME PROCESSED : 04/14/91 22:50:14
METHOD: CLPA / CLPA REV #: 00015 ANALYST: CELESTE SAMP RATE: 1.50

#2 IND A

SAMPLE WT : 1.0000 STANDARD WT : 1.0000 DILUTION FACTOR : 1.0000

PK NO	RT MINUTES	GR NO	COMPONENT NAME	RRT MINUTES	RESPONSE FACTOR	BL	PEAK HEIGHT	HEIGHT ng/uL
001	2.026			2.026	0.0000E+0		274	0.000
002	4.529		δBHC	4.529	0.0000E+0	T	1537	0.000
003	5.104		Hept	5.104	0.0000E+0	V	1587	0.000
004	5.984		ALDRIN	5.984	0.0000E+0	V	935	0.000
005	8.608			8.608	0.0000E+0	T	262	0.000
006	9.132		HE	9.132	0.0000E+0	T	800	0.000
007	10.715		EndoI	10.715	0.0000E+0	V	1259	0.000
008	13.355		Dieldrin	13.355	0.0000E+0	T	1074	0.000
009	14.709			14.709	0.0000E+0	V	341	0.000
010	17.618		EndoII	17.618	0.0000E+0	T	3300	0.000
011	18.397		DDT	18.397	0.0000E+0	T	2808	0.000
012	20.386		EA	20.386	0.0000E+0	V	1826	0.000
013	23.729		Meth	23.729	0.0000E+0	V	4749	0.000
014	24.865		DBC	24.865	0.0000E+0	V	2787	0.000
015	27.040			27.040	0.0000E+0		130	0.000
							23669	0.000

7222001436

PERKIN-ELMER CLAS 2000 05/02/91 14:47:36

EXTERNAL STANDARD

SAMPLE: 0412H5B .47 INST:22 VIAL: 0 SEQ NUMBER:047
TEST : DATE-TIME COLLECTED : 04/14/91 22:53:48
COLLECTION TIME : 29.88 DATE-TIME PROCESSED : 04/14/91 23:24:14
METHOD: CLPA / CLPA REV #: 00015 ANALYST: CELESTE SAMP RATE: 1.56

#2 IND B

SAMPLE WT : 1.0000 STANDARD WT : 1.0000 DILUTION FACTOR : 1.0000

PK NO	RT MINUTES	GR NO	COMPONENT NAME	RRT MINUTES	RESPONSE FACTOR	BL	PEAK HEIGHT	HEIGHT ng/uL
001	2.027			2.027	0.0000E+0	V	247	0.000
002	3.591		α BHC	3.591	0.0000E+0		1377	0.000
003	5.990		Aldrin	5.990	0.0000E+0	V	1710	0.000
004	7.028		β BHC	7.028	0.0000E+0	T	1119	0.000
005	8.159		γ BHC	8.159	0.0000E+0	V	1179	0.000
006	11.128		γ Chl	11.128	0.0000E+0	V	792	0.000
007	11.686		α Chl.	11.686	0.0000E+0	V	1704	0.000
008	12.341		DDE	12.341	0.0000E+0	V	630	0.000
009	14.688		Endrin	14.688	0.0000E+0		793	0.000
010	17.456		DDD	17.456	0.0000E+0		1437	0.000
011	23.083		Endo. Sulfate	23.083	0.0000E+0	V	1340	0.000
012	24.875		DBC	24.875	0.0000E+0	T	2435	0.000
013	26.603		CK	26.603	0.0000E+0		1173	0.000
							15936	0.000

SEE REEL

FOR STRIP

CHART/OR

CHARTS

1 STRIP CHART

END

Report Title: SAUGET LAB DATA 90894-90912 PEST/PCB

Date of Report: REC'D 3-28-91

IL 532 1968
LPC 404 01/91

Printed on Recycled Paper

2E
WATER PESTICIDE SURROGATE RECOVERY

b Name: I.E.P.A. - Springfield Contract:SAUGET

b Code:_____ Case No.:_____ SAS No.:_____ SDG No.:_____

EPA SAMPLE NO.	S1 (DBC) #	OTHER
G201	68	
G202	74	
G203	79	
G204	78	
G205	76	
G205MS	76	
G205MSD	82	
PBLKW#1	79	

ADVISORY
QC LIMITS
(24-154)

S1 (DBC) = Dibutylchlorendate

Column used to flag recovery values

* Values outside of QC limits

D Surrogates diluted out

2F

SOIL PESTICIDE SURROGATE RECOVERY

ab Name: I.E.P.A. - Springfield Contract: SAUGET

ab Code:_____ Case No.:_____ SAS No.:_____ SDG No.:_____

_____ _____ _____

	EPA SAMPLE NO.	S1 (DBC) #	OTHER
1	X101	84	
2	X102	74	
3	X103	49	
4	X104	67	
5	X106	22	
6	X107	62	
7	X108	204	*
8	X109	52	
9	X110	64	
0	X111	61	
1	X112	74	
2	X113	112	
3	X114	62	
4	X114MS	65	
5	X114MSD	77	
6	PBLKS#1	67	
7			
8			
9			
0			
1			
2			
3			
4			
5			
6			
7			
8			
9			

S1 (DBC) = Dibutylchlorendate ADVISORY QC LIMITS (20-150)

Column used to flag recovery values

* Values outside of QC limits

D Surrogates diluted out

3F

SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: I.E.P.A.-Springfield Contract: SAUGET

Lab Code:_____ Case No.:_____ SAS No.:_____ SDG No.:_____

Matrix Spike - EPA Sample No.: X114 Level:(low/med): low

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
gamma-BHC (Lindane)	81.3	0	56.7	70	46-127
Heptachlor	81.3	0	57.1	70	35-130
Aldrin	81.3	0	54.7	67	34-132
Dieldrin	203.1	0	179.1	88	31-134
Endrin	203.1	0	209.9	103	42-139
4,4'-DDT	203.1	0	179.1	88	23-134

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
gamma-BHC (Lindane)	81.3	67.0	82.5	16.7	50	46-127
Heptachlor	81.3	62.9	77.4	9.6	31	35-130
Aldrin	81.3	61.1	75.2	11.1	43	34-132
Dieldrin	203.1	190.1	93.6	6.0	38	31-134
Endrin	203.1	225.2	110.8	7.0	45	42-139
4,4'-DDT	203.1	187.9	92.5	4.8	50	23-134

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 6 outside limits
Spike Recovery: 8 out of 12 outside limits

COMMENTS: _____

3E

WATER PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: I.E.P.A.-Springfield Contract: SAUGET

Lab Code:_____ Case No.:_____ SAS No.:_____ SDG No.:_____

Matrix Spike - EPA Sample No.: G203 Level:(low/med): low

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
gamma-BHC (Lindane)	0.2	0	0.235	118	46-127
Heptachlor	0.2	0	0.538	269	35-130
Aldrin	0.2	0	1.975	988	34-132
Dieldrin	0.5	0	0.695	139	31-134
Endrin	0.5	0	0.682	136	42-139
4,4'-DDT	0.5	0	0.626	125	23-134

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
gamma-BHC (Lindane)	0.2	0.282	141	17.94	15	46-127
Heptachlor	0.2	0.573	286	6.35	20	35-130
Aldrin	0.2	2.088	1044	5.52	22	34-132
Dieldrin	0.5	0.737	147	5.82	18	31-134
Endrin	0.5	0.763	153	11.25	21	42-139
4,4'-DDT	0.5	0.683	137	8.63	27	23-134

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 6 outside limits
Spike Recovery: 9 out of 12 outside limits

COMMENTS: ALDRIN WAS NOT CONFIRMED ON THE 2ND COLUMN, BUT THERE WAS AN INTERFERING PEAK PRESENT.

4C

PESTICIDE METHOD BLANK SUMMARY

ıb Name: I.E.P.A.-Springfield Contract: SAUGET

ıb Code:_____ Case No.:_____ SAS No.:_____ SDG No.:_____

ıb Sample ID: D190950BL Lab File ID:

ıtrix(soil/water) WATER Level:(low/med) LOW

ıte Extracted: 03-29-1991 Extraction:(SepF/Cont/Sonc) SepF

ıte Analyzed (1): 04-12-1991 Date Analyzed (2): 04-12-1991

me Analyzed (1): 03:21:34 Time Analyzed (2): 03:56:23

ıstrument ID (1): 21/H5A Instrument ID (2): 22/H5B

Column ID (1): DB-5 (0.53 mm) GC Column ID (2): DB-1701 (0.53 mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID.	DATE ANALYZED 1	DATE ANALYZED 2
G201	D190894	04-13-1991	04-13-1991
G202	D190895	04-13-1991	04-13-1991
G203	D190896	04-13-1991	04-13-1991
G204	D190897	04-13-1991	04-13-1991
G205	D190898	04-13-1991	04-13-1991
G205MS	D190898MS	04-13-1991	04-13-1991
G205MSD	D190898MSD	04-13-1991	04-13-1991

4C
PESTICIDE METHOD BLANK SUMMARY

ab Name: I.E.P.A.-Springfield Contract: SAUGET

ab Code:_____ Case No.:_____ SAS No.:_____ SDG No.:_____

ab Sample ID: D190891BL Lab File ID:

atrix(soil/water) SOIL Level:(low/med) LOW

ate Extracted: 04-02-1991 Extraction:(SepF/Cont/Sonc SONC

ate Analyzed (1): 04-14-1991 Date Analyzed (2): 04-14-1991

ime Analyzed (1): 19:24:17 Time Analyzed (2): 19:59:54

nstrument ID (1): 21/H5A Instrument ID (2): 22/H5B

C Column ID (1): DB-5 (0.53 mm) GC Column ID (2): DB-1701 (0.53 mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID.	DATE ANALYZED 1	DATE ANALYZED 2
1:	X101	D190900	04-13-1991	04-13-1991
2:	X102	D190901	04-13-1991	04-13-1991
3:	X103	D190902	04-13-1991	04-13-1991
4:	X104	D190903	04-13-1991	04-13-1991
5:	X106	D190904	04-13-1991	04-13-1991
6:	X107	D190906	04-13-1991	04-13-1991
7:	X108	D190907	04-13-1991	04-13-1991
8:	X109	D190908	04-13-1991	04-13-1991
9:	X110	D190909	04-13-1991	04-13-1991
0:	X111	D190910	04-13-1991	04-13-1991
1:	X112	D190911	04-13-1991	04-13-1991
2:	X113	D190912	04-13-1991	04-13-1991
3:	X114	D190913	04-13-1991	04-13-1991
4:	X114MS	D190997MS	04-13-1991	04-13-1991
5:	X114MSD	D190997MSD	04-13-1991	04-13-1991
6:				
7:				
8:				
9:				
0:				
1:				
2:				
3:				
4:				
5:				
6:				

OMMENTS: _____

8D
PESTICIDE EVALUATION STANDARDS SUMMARY

Lab Name: I.E.P.A.-Springfield Contract: SAUGET

Lab Code:_____ CaseNo.:_____ SAS No.:_____ SDG No.:_____

Instrument ID: 21 / H5A GC Column ID: DB-5 (0.53 mm)

Dates of Analyses: 04-12-1991 to 04-13-1991

Evaluation Check for Linearity

PESTICIDE	CALIBRATION FACTOR EVAL MIX A	CALIBRATION FACTOR EVAL MIX B	CALIBRATION FACTOR EVAL MIX C	%RSD (</=10.0%) (1)
ALDRIN	98100	96000	97600	1.1
ENDRIN	48660	47320	47200	1.7
4,4'-DDT	60460	54340	52600	7.4
DBC	35780	35160	36000	1.2

(1) If > 10.0% RSD, plot a standard curve and determine the ng for each sample in that set from the curve.

Evaluation Check for 4,4'-DDT/Endrin Breakdown
(percent breakdown expressed as total degradation)

		DATE ANALYZED	TIME ANALYZED	ENDRIN	4,4'-DDT	COMBINED (2)
	INITIAL					
1	EVAL MIX B	04-12-1991	16:20:06	7.1	0.0	2.3
2	EVAL MIX B	04-12-1991	22:08:27	0.0	0.0	0.0
3	EVAL MIX B					
4	EVAL MIX B					
5	EVAL MIX B					
6	EVAL MIX B					
7	EVAL MIX B					
8	EVAL MIX B					
9	EVAL MIX B					
0	EVAL MIX B					
1	EVAL MIX B					
2	EVAL MIX B					
3	EVAL MIX B					
4	EVAL MIX B					

(2) See Form Instructions .

8D
PESTICIDE EVALUATION STANDARDS SUMMARY

Lab Name: I.E.P.A.-Springfield Contract: SAUGET

Lab Code:_____ CaseNo.:_____ SAS No.:_____ SDG No.:_____

Instrument ID:21/H5B GC Column ID: DB-1701 (0.53 mm)

Dates of Analyses: 04-12-1991 to 04-14-1991

Evaluation Check for Linearity

PESTICIDE	CALIBRATION FACTOR EVAL MIX A	CALIBRATION FACTOR EVAL MIX B	CALIBRATION FACTOR EVAL MIX C	%RSD (</=10.0%) (1)
ALDRIN	106450	103700	105400	1.3
ENDRIN	45080	42920	45760	3.3
4,4'-DDT	49240	43700	43960	6.9
DBC	28680	28260	29560	2.3

(1) If > 10.0% RSD, plot a standard curve and determine the ng for each sample in that set from the curve.

Evaluation Check for 4,4'-DDT/Endrin Breakdown
(percent breakdown expressed as total degradation)

		DATE ANALYZED	TIME ANALYZED	ENDRIN	4,4'-DDT	COMBINED (2)
	INITIAL					
1	EVAL MIX B	04-12-1991	16:20:07	17.84	0.00	6.67
2	EVAL MIX B	04-13-1991	01:37:16	13.95	0.00	5.19
3	EVAL MIX B	04-13-1991	12:06:43	0.00	0.00	0.00
4	EVAL MIX B					
5	EVAL MIX B					
6	EVAL MIX B					
7	EVAL MIX B					
8	EVAL MIX B					
9	EVAL MIX B					
0	EVAL MIX B					
1	EVAL MIX B					
2	EVAL MIX B					
3	EVAL MIX B					
4	EVAL MIX B					

(2) See Form Instructions .

8E

PESTICIDE EVALUATION STANDARDS SUMMARY
Evaluation of Retention Time Shift for Dibutylchlorendate

ab Name:Springfield-I.E.P.A. Contract: SAUGET

ab Code:_____ Case No.:_____ SAS No.:_____ SDG No.:_____

nstrument ID: 22 / V6A GC Column ID: DB-5 (0.53 mm)

Dates of Analyses: 04-12-1991 to 04-14-1991

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	%D	*
01:EVAL A	EVAL A	04-12-1991	15:45:01	0.0	
02:EVAL B	EVAL B	04-12-1991	16:20:06	0.1	
03:EVAL C	EVAL C	04-12-1991	16:54:56	0.1	
04:IND A	IND A	04-12-1991	17:29:47	0.1	
05:IND B	IND B	04-12-1991	18:04:36	0.1	
06:TOXAPH	TOXAPH	04-12-1991	18:39:28	0.1	
07:AR1660	AR1660	04-12-1991	19:14:18	0.0	
08:AR1221	AR1221	04-12-1991	19:49:07	0.1	
09:AR1232	AR1232	04-12-1991	20:23:53	0.1	
10:AR1242	AR1242	04-12-1991	20:58:43	0.2	
11:AR1248	AR1248	04-12-1991	21:33:33	0.2	
12:AR1254	AR1254	04-12-1991	22:08:27	0.2	
13:G201	D190894	04-12-1991	22:43:14	0.2	
14:G202	D190895	04-12-1991	23:18:00	0.2	
15:G203	D190896	04-12-1991	23:52:50	0.2	
16:G204	D190897	04-13-1991	00:27:39	0.1	
17:G205	D190898	04-13-1991	01:02:28	0.2	
18:EVALB	EVALB	04-13-1991	01:37:14	0.1	
19:G205MS	D190949MS	04-13-1991	02:11:59	0.2	
20:G205MSD	D190949MSD	04-13-1991	02:46:47	0.2	
21:PBLKW#1	D190950BL	04-13-1991	03:21:34	0.2	
22:X101	D190900	04-13-1991	03:56:22	0.2	
23:X102	D190901	04-13-1991	04:31:08	0.2	
24:INDA	INDA	04-13-1991	05:05:51	0.2	
25:X103	D190902	04-13-1991	05:40:35	0.1	
26:XXX	XXX	04-13-1991	06:15:03	XX	
27:X104	D190903	04-13-1991	09:47:19	0.1	
28:X106	D190904	04-13-1991	10:22:12	0.0	
29:X107	D190905	04-13-1991	10:57:02	0.6	
30:X108	D190906	04-13-1991	11:31:51	0.2	
31:EVALB	EVALB	04-13-1991	12:06:42	1.8	*
32:X109	D190907	04-13-1991	12:41:35	0.0	
33:X110	D190908	04-13-1991	13:16:26	0.1	
34:X111	D190909	04-13-1991	13:51:15	0.1	
35:X112	D190910	04-13-1991	14:26:01	0.0	
36:X113	D190911	04-13-1991	15:00:52	0.1	
37:INDB	INDB	04-13-1991	15:35:41	0.1	
38:X114	D190912	04-13-1991	16:10:32	0.1	

8E

PESTICIDE EVALUATION STANDARDS SUMMARY
Evaluation of Retention Time Shift for Dibutylchlorendate

ab Name:Springfield-I.E.P.A. Contract: SAUGET

ab Code:_____ Case No.:_____ SAS No.:_____ SDG No.:_____

nstrument ID: 22 / V6A GC Column ID: DB-5 (0.53 mm)

Dates of Analyses: 04-12-1991 to 04-14-1991

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	%D	*
01:X114MS	D190997MS	04-13-1991	16:45:18	0.1	
02:X114MSD	D190997MSD	04-13-1991	17:20:04	0.1	
03:PBLKS#1	D190998BL	04-13-1991	19:24:17	0.2	
04:X107 DIL	D190905 DIL	04-13-1991	19:59:53	0.5	
05:EVALB	EVALB	04-14-1991	20:34:42	0.4	
06:X108 DIL	D190906 DIL	04-14-1991	21:09:32	0.5	
07:INDA	INDA	04-14-1991	21:44:23	0.6	
08:INDB	INDB	04-14-1991	22:19:17	0.4	
09:					
10:					
11:					
12:					
13:					
14:					
15:					
16:					
17:					
18:					
19:					
20:					
21:					
22:					
23:					
24:					
25:					
26:					
27:					
28:					
29:					
30:					
31:					
32:					
33:					
34:					
35:					
36:					
37:					
38:					

8E

PESTICIDE EVALUATION STANDARDS SUMMARY
Evaluation of Retention Time Shift for Dibutylchlorendate

Lab Name:Springfield-I.E.P.A. Contract: SAUGET

Lab Code:_____ Case No.:_____ SAS No.:_____ SDG No.:_____

Instrument ID: 22 / H5B GC Column ID: DB-1701 (0.53 mm)

Dates of Analyses: 04-12-1991 to 04-14-1991

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	%D	*
01:EVAL A	EVAL A	04-12-1991	16:20:07	0.0	
02:EVAL B	EVAL B	04-12-1991	16:54:56	0.1	
03:EVAL C	EVAL C	04-12-1991	17:29:45	0.1	
04:IND A	IND A	04-12-1991	18:04:37	0.0	
05:IND B	IND B	04-12-1991	18:39:29	0.1	
06:TOXAPH	TOXAPH	04-12-1991	19:14:18	0.0	
07:ARO 1660	ARO 1660	04-12-1991	19:49:07	0.1	
08:ARO 1221	ARO 1221	04-12-1991	20:23:54	0.0	
09:ARO 1232	ARO 1232	04-12-1991	20:58:44	0.0	
10:ARO 1242	ARO 1242	04-12-1991	21:33:35	0.0	
11:ARO 1248	ARO 1248	04-12-1991	22:08:25	0.0	
12:ARO 1254	ARO 1254	04-12-1991	22:43:14	0.0	
13:G201	D190894	04-12-1991	23:18:01	0.0	
14:G202	D190895	04-12-1991	23:52:47	0.1	
15:G203	D190896	04-13-1991	00:27:40	0.1	
16:G204	D190897	04-13-1991	01:02:28	0.1	
17:G205	D190898	04-13-1991	01:37:16	0.1	
18:EVAL B	EVAL B	04-13-1991	02:12:01	0.1	
19:G205MS	D190949MS	04-13-1991	02:46:48	0.1	
20:G205MSD	D190949MSD	04-13-1991	03:21:35	0.1	
21:PBLKW	D190950BL	04-13-1991	03:56:23	0.1	
22:X101	D190900	04-13-1991	04:31:06	0.1	
23:X102	D190901	04-13-1991	05:05:51	0.1	
24:IND A	IND A	04-13-1991	05:40:36	0.1	
25:X103	D190902	04-13-1991	06:15:04	0.1	
26:XXX	XXXXX	04-13-1991	09:47:20	XXX	
27:X104	D190903	04-13-1991	10:22:13	0.3	
28:X106	D190904	04-13-1991	10:57:03	0.3	
29:X107	D190905	04-13-1991	11:31:52	0.1	
30:X108	D190906	04-13-1991	12:06:43	0.3	
31:EVALB	EVALB	04-13-1991	12:41:36	0.3	
32:X109	D190907	04-13-1991	13:16:27	0.3	
33:X110	D190908	04-13-1991	13:51:16	0.3	
34:X111	D190909	04-13-1991	14:26:02	0.3	
35:X112	D190910	04-13-1991	15:00:53	0.2	
36:X113	D190911	04-13-1991	15:35:42	0.3	
37:INDB	INDB	04-13-1991	16:10:33	0.3	
38:X114	D190912	04-13-1991	16:45:19	0.3	

* Values outside of QC limits (2.0% for packed columns, 0.3% for capillary columns)

8E

PESTICIDE EVALUATION STANDARDS SUMMARY
Evaluation of Retention Time Shift for Dibutylchlorendate

Lab Name: Springfield-I.E.P.A. Contract: SAUGET

Lab Code:_____ Case No.:_____ SAS No.:_____ SDG No.:_____

Instrument ID: 22 / H5B GC Column ID: DB-1701 (0.53 mm)

Dates of Analyses: 04-12-1991 to 04-14-1991

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	%D	*
01	X114MS	D190997MS	04-13-1991	17:20:05	0.3	
02	XXXXX	XXXXXX	04-14-1991	XXXXX	XXXX	
03	PBLKS	D190998PBLKS	04-14-1991	19:59:54	0.3	
04	X107	D190905	04-14-1991	20:34:43	0.0	
05	EVALB	EVALB	04-14-1991	21:09:33	0.0	
06	X108	D190906	04-14-1991	21:44:24	0.1	
07	INDA	INDA	04-14-1991	22:19:18	0.0	
08	INDB	INDB	04-14-1991	22:53:48	0.1	
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						
33						
34						
35						
36						
37						
38						

* Values outside of QC limits (2.0% for packed columns, 0.3% for capillary columns)

9

PESTICIDE/PCB STANDARDS SUMMARY

Lab Name: Illinois E.P.A.-Springfield Contract: SAUGET

Lab Code:_____ Case No.:_____ SAS No.:_____ SDG No.:_____

Instrument ID: 21/H5A GC Column ID: DB-5 (0.53 mm)

DATE(S) OF ANALYSIS	FROM:	04-12-1991	DATE OFANALYSIS	04-13-199	
	TO:	04-14-1991	TIME OF ANALYSIS	05:05:51	
TIME(S) OF ANALYSIS	FROM:	15:45:01	EPA SAMPLE NO. (STANDARD)	Ind. A #1	
	TO:	22:19:17			

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR	RT	CALIBRATION FACTOR	QNT	%D
alpha-BHC	2.729	2.693	2.765	164300				
beta-BHC	3.082	3.046	3.118	117050				
delta-BHC	3.617	3.581	3.653	124150				
gamma-BHC	3.241	3.205	3.277	197300	3.233	200000	Y	1.4
Heptachlor	4.903	4.849	4.957	166400	4.892	165700	Y	0.4
Aldrin	6.025	5.967	6.083	98100	6.014	115400	N	17.6
Hept. epoxide	7.574	7.496	7.652	90800	7.561	113800	N	25.3
Endosulfan I	9.439	9.342	9.536	66200	9.423	66800	Y	0.9
Dieldrin	11.065	10.961	11.169	49050	11.046	50000	Y	1.9
4,4'-DDE	10.980	10.850	11.110	44200				
Endrin	12.597	12.453	12.799	39400				
Endosulfan II	13.216	12.950	13.482	47825	13.192	48475	Y	1.4
4,4'-DDD	13.984	13.820	14.148	28675				
Endo. sulfate	15.883	15.721	16.045	49725				
4,4'-DDT	16.302	16.137	16.467	51275	16.270	56425	Y	10.0
Methoxychlor	19.872	19.572	20.172	34005	19.854	34645	Y	1.9
Endrin ketone	18.365	18.160	18.570	54675				
a Chlordane	9.604	9.532	9.676	117650				
g Chlordane	8.738	8.669	8.807	66150				
Toxaphene	16.372	16.339	16.599	1782				
Arochlor 1016	4.321	4.330	4.414	11606				
Arochlor 1221	2.655	2.650	2.722	7698				
Arochlor 1232	4.323	2.649	2.721	5174				
Arochlor 1242	4.325	4.336	4.408	9432				
Arochlor 1248	4.604	9.070	9.142	4606				
Arochlor 1254	9.024	8.873	9.175	4308				
Arochlor 1260	14.844	20.737	20.941	6910				

Under QNT Y/N: enter Y if quantitation was performed, N if not performed.
%D must be less than or equal to 15.0% for quantitation, and less than or

PESTICIDE/PCB STANDARDS SUMMARY

Lab Name: Illinois E.P.A.-Springfield Contract: SAUGET

Lab Code:_____ Case No.:_____ SAS No.:_____ SDG No.:_____

Instrument ID: 21/HP5A GC Column ID: DB-5 (0.53 mm)

DATE(S) OF ANALYSIS TIME(S) OF ANALYSIS	FROM: TO: FROM: TO:	04-12-1991 04-14-1991 15:45:01 22:19:17	DATE OF ANALYSIS TIME OF ANALYSIS EPA SAMPLE NO. (STANDARD)	04-13-1991 15:35:41 Ind. B #1				
COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR	RT	CALIBRATION FACTOR	QNT	%D
alpha-BHC	2.729	2.693	2.765	164300	2.724	166100	Y	1.1
beta-BHC	3.082	3.046	3.118	117050	3.077	113650	Y	2.9
delta-BHC	3.617	3.581	3.653	124150	3.612	126350	Y	1.8
gamma-BHC	3.241	3.205	3.277	197300				
Heptachlor	4.903	4.849	4.957	166400				
Aldrin	6.025	5.967	6.083	158000	6.021	152800	Y	3.3
Hept. epoxide	7.574	7.496	7.652	90800				
Endosulfan I	9.439	9.342	9.536	66200				
Dieldrin	11.065	10.961	11.169	49050				
4,4'-DDE	10.980	10.850	11.110	44200	10.969	41450	Y	6.2
Endrin	12.597	12.453	12.799	39400	12.601	36150	Y	8.2
Endosulfan II	13.216	12.950	13.482	47825				
4,4'-DDD	13.984	13.820	14.148	28675	13.994	27150	Y	5.3
Endo. sulfate	15.883	15.721	16.045	49725	15.883	47125	Y	5.2
4,4'-DDT	16.302	16.137	16.467	60460				
Methoxychlor	19.872	19.572	20.172	34005				
Endrin ketone	18.365	18.160	18.570	54675	18.367	50975	Y	6.8
a Chlordane	9.604	9.532	9.676	117650	9.600	111450	Y	5.3
g Chlordane	8.738	8.669	8.807	66150	8.736	62000	Y	6.3
Toxaphene	16.469	16.339	16.599	1782				
Arochlor 1016	4.372	4.330	4.414	11606				
Arochlor 1221	2.686	2.650	2.722	7698				
Arochlor 1232	2.685	2.649	2.721	5174				
Arochlor 1242	4.372	4.336	4.408	9432				
Arochlor 1248	9.106	9.070	9.142	4606				
Arochlor 1254	9.024	8.873	9.175	4308				
Arochlor 1260	20.737	20.533	20.941	6910				

Under QNT Y/N: enter Y if quantitation was performed, N if not performed.
%D ,must be less than or equal to 15.0% for quantitation, and less than or equal to 20.0% for confirmation

PESTICIDE/PCB STANDARDS SUMMARY

Lab Name: Illinois E.P.A.-Springfield Contract:SAUGET

Lab Code:_____ Case No.:_____ SAS No.:_____ SDG No.:_____

Instrument ID: 19 / H5A GC Column ID: DB-5 (0.53 mm)

DATE(S) OF ANALYSIS	FROM:	04-12-1991	DATE OF ANALYSIS	04-14-1991	
	TO:	04-14-1991	TIME OF ANALYSIS	21:44:23	
TIME(S) OF ANALYSIS	FROM:	15:45:01	EPA SAMPLE NO. (STANDARD)	Ind. A #2	
	TO:	22:19:17			

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR	RT	CALIBRATION FACTOR	Q: N: T:	%D
alpha-BHC	2.729	2.693	2.765	164300				
beta-BHC	3.082	3.046	3.118	117050				
delta-BHC	3.617	3.581	3.653	124150				
gamma-BHC	3.241	3.205	3.277	197300	3.213	198200	Y:	0.5
Heptachlor	4.903	4.849	4.957	166400	4.861	159700	Y:	4.0
Aldrin	6.025	5.967	6.083	196200	5.974	191400	Y:	2.4
Hept. epoxide	7.574	7.496	7.652	90800	7.508	87700	Y:	3.4
Endosulfan I	9.439	9.342	9.536	66200	9.355	64300	Y:	2.9
Dieldrin	11.065	10.961	11.169	49050	10.971	47150	Y:	3.9
4,4'-DDE	10.980	10.850	11.110	44200				
Endrin	12.597	12.453	12.799	48660				
Endosulfan II	13.216	12.950	13.482	47825	13.109	46050	Y:	3.7
4,4'-DDD	13.984	13.820	14.148	28675				
Endo. sulfate	15.883	15.721	16.045	49725				
4,4'-DDT	16.302	16.137	16.467	51275	16.208	45850	Y:	10.6
Methoxychlor	19.872	19.572	20.172	34005	19.779	33415	Y:	1.7
Endrin ketone	22.602	18.160	18.570	54675				
a Chlordane	9.604	9.532	9.676	117650				
g Chlordane	8.738	8.669	8.807	66150				
Toxaphene	16.469	16.339	16.599	1782				
Arochlor 1016	4.372	4.330	4.414	11606				
Arochlor 1221	2.686	2.650	2.722	7698				
Arochlor 1232	2.685	2.649	2.721	5174				
Arochlor 1242	4.372	4.336	4.408	9432				
Arochlor 1248	9.106	9.070	9.142	4606				
Arochlor 1254	9.024	8.873	9.175	4308				
Arochlor 1260	20.737	20.533	20.941	6910				

Under QNT Y/N: enter Y if quantitation was performed, N if not performed.
%D ,must be less than or equal to 15.0% for quantitation, and less than or equal to 20.0% for confirmation.

PESTICIDE/PCB STANDARDS SUMMARY

Lab Name: Illinois E.P.A.-Springfield Contract:SAUGET

Lab Code:_____ Case No.:_____ SAS No.:_____ SDG No.:_____

Instrument ID: 21 / HP5A GC Column ID: DB-5

DATE(S) OF ANALYSIS	FROM:	04-12-1991	DATE OF ANALYSIS	04-14-1991	
	TO:	04-14-1991	TIME OF ANALYSIS	22:19:17	
TIME(S) OF ANALYSIS	FROM:	15:45:01	EPA SAMPLE NO. (STANDARD)	Ind. B #2	
	TO:	22:19:17			

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR	RT	CALIBRATION FACTOR	QNT	%D
alpha-BHC	2.729	2.693	2.765	164300	2.708	171900	Y	4.6
beta-BHC	3.082	3.046	3.118	117050	3.058	120300	Y	2.8
delta-BHC	3.617	3.581	3.653	124150	3.589	132550	Y	6.8
gamma-BHC	3.241	3.205	3.277	197300				
Heptachlor	4.903	4.849	4.957	166400				
Aldrin	6.025	5.967	6.083	158000	5.980	161500	Y	2.2
Hept. epoxide	7.574	7.496	7.652	90800				
Endosulfan I	9.439	9.342	9.536	66200				
Dieldrin	11.065	10.961	11.169	49050				
4,4'-DDE	10.980	10.850	11.110	44200	10.892	44200	Y	0.0
Endrin	12.597	12.453	12.799	39400	12.525	38650	Y	1.9
Endosulfan II	13.216	12.950	13.482	47825				
4,4'-DDD	13.984	13.820	14.148	28675	13.922	28025	Y	2.3
Endo. sulfate	15.883	15.721	16.045	49725	15.822	49825	Y	0.2
4,4'-DDT	16.302	16.137	16.467	60460				
Methoxychlor	22.605	19.572	20.172	18525				
Endrin ketone	18.365	18.160	18.570	54675	18.309	56250	Y	2.9
a Chlorane	9.604	9.532	9.676	117650	9.533	118050	Y	0.3
g Chlordane	8.738	8.669	8.807	66150	8.672	65100	Y	1.6
Toxaphene	16.469	16.339	16.599	1782				
Arochlor 1016	4.372	4.330	4.414	11606				
Arochlor 1221	2.686	2.650	2.722	7698				
Arochlor 1232	2.685	2.649	2.721	5174				
Arochlor 1242	4.372	4.336	4.408	9432				
Arochlor 1248	9.106	9.070	9.142	4606				
Arochlor 1254	9.024	8.873	9.175	4308				
Arochlor 1260	20.737	20.533	20.941	6910				

Under QNT Y/N: enter Y if quantitation was performed, N if not performed.
%D ,must be less than or equal to 15.0% for quantitation, and less than or equal to 20.0% for confirmation.

4 of 4

Note: Determining that no compounds were found above the QRL is a form of

PESTICIDE/PCB STANDARDS SUMMARY

ıb Name: Illinois E.P.A.-Springfield Contract: SAUGET

ıb Code:_____ Case No.:_____ SAS No.:_____ SDG No.:_____

ıstrument ID:21/HRB GC Column ID: DB-1701 (0.53 mm)

DATE(S) OF ANALYSIS	FROM:	04-12-1991	DATE OFANALYSIS	04-13-1991	
	TO:	04-14-1991	TIME OF ANALYSIS	05:05:51	
TIME(S) OF ANALYSIS	FROM:	16:20:07	EPA SAMPLE NO. (STANDARD)	Ind. A #1	
	TO:	22:53:48			

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR	RT	CALIBRATION FACTOR	QNT	%D
lpha-BHC	3.588	3.559	3.617	135300				
eta-BHC	7.019	6.961	7.077	85800				
elta-BHC	8.149	8.083	8.215	58450				
amma-BHC	4.533	4.486	4.580	149500	4.534	152900	Y	2.3
eptachlor	5.106	5.055	5.157	162500	5.110	164800	Y	1.4
ldrin	5.982	5.923	6.041	106450	5.991	98900	Y	7.1
ept. epoxide	9.141	9.048	9.234	79400	9.140	79900	Y	0.6
ndosulfan I	10.721	10.618	10.824	60750	10.727	61800	Y	1.7
ieldrin	13.365	13.235	13.495	50500	13.376	53450	Y	5.8
.4'-DDE	12.325	12.226	12.424	31250				
ndrin	14.668	14.562	14.774	45080				
ndosulfan II	17.618	17.508	17.728	55000	17.659	132875	Y	141.6
.4'-DDD	17.445	17.359	17.531	34050				
ndo. sulfate	23.071	22.978	23.165	34225				
.4'-DDT	18.411	18.326	18.496	42950	18.368	136225	Y	217.2
ethoxychlor	23.743	23.617	23.869	22220	23.748	24150	Y	8.7
ndrin ketone	26.603	26.494	26.712	29650				
Chlordane	11.672	11.581	11.763	85250				
Chlordane	11.115	11.027	11.203	40500				
oxaphene	19.205	19.129	19.281	1785				
rochlor 1016	4.723	4.676	4.770	10092				
rochlor 1221	2.924	2.898	2.950	6448				
rochlor 1232	4.723	4.685	4.761	4594				
rochlor 1242	4.723	4.697	4.749	8186				
rochlor 1248	5.846	5.798	5.894	5420				
rochlor 1254	8.699	8.639	8.759	4166				
rochlor 1260	15.598	15.511	15.685	4608				

nder QNT Y/N: enter Y if quantitation was performed, N if not performed.
D ,must be less than or equal to 15.0% for quantitation, and less than or
qual to 20.0% for confirmation.

ote: Determining that no compounds were found above the QRL is a form of
uantitation, and therefore, at least one column must meet the 15.0% criteria.

or multicomponent analytes, the single largest peak that is characteristic
f the component should be used to establish retention time and %D.
dentification of such analytes is based primarily on pattern recognition.

PESTICIDE/PCB STANDARDS SUMMARY

ab Name: Illinois E.P.A.-Springfield Contract: SAUGET

ab Code:_____ Case No.:_____ SAS No.:_____ SDG No.:_____

nstrument ID:21/H5B GC Column ID: DB-1701 (0.53 mm)

DATE(S) OF ANALYSIS	FROM:	04-12-1991	DATE OF ANALYSIS	04-13-1991	
	TO:	04-14-1991	TIME OF ANALYSIS	16:10:33	
TIME(S) OF ANALYSIS	FROM:	16:20:07	EPA SAMPLE NO. (STANDARD)	Ind. B #1	
	TO:	22:53:48			

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR	RT	CALIBRATION FACTOR	QNT	%D
lpha-BHC	3.588	3.559	3.617	135300	3.597	133600	Y	1.3
eta-BHC	7.019	6.961	7.077	56500	7.041	51300	Y	9.2
elta-BHC	0.000	8.083	8.215	58450	8.170	55000	Y	5.9
amma-BHC	4.533	4.486	4.580	149500				
eptachlor	5.106	5.055	5.157	162500				
ldrin	5.982	5.923	6.041	106450	6.001	85500	Y	19.7
ept. epoxide	9.141	9.048	9.234	79400				
ndosulfan I	10.721	10.618	10.824	60750				
ieldrin	13.365	13.235	13.495	50500				
.4'-DDE	12.325	12.226	12.424	31250	12.373	29350	Y	6.1
ndrin	14.668	14.562	14.774	45080	14.705	37250	Y	17.4
ndosulfan II	17.618	17.508	17.728	55000				
.4'-DDD	17.445	17.359	17.531	34050	17.479	35950	Y	5.6
ndo. sulfate	23.071	22.978	23.165	34225	23.115	31350	Y	8.4
.4'-DDT	18.411	18.326	18.496	42950				
ethoxychlor	23.743	23.617	23.869	22220				
ndrin ketone	26.603	26.494	26.712	29650	26.651	27875	Y	6.0
Chlordane	11.672	11.581	11.763	85250	11.706	77000	Y	9.7
Chlordane	11.115	11.027	11.203	40500	11.159	36150	Y	10.7
oxaphene	19.205	19.129	19.281	1785				
rochlor 1016	4.723	4.676	4.770	10092				
rochlor 1221	2.924	2.898	2.950	6448				
rochlor 1232	4.723	4.685	4.761	4594				
rochlor 1242	4.723	4.697	4.749	8186				
rochlor 1248	5.846	5.798	5.894	5420				
rochlor 1254	8.699	8.639	8.759	4166				
rochlor 1260	15.598	15.511	15.685	4608				

nder QNT Y/N: enter Y if quantitation was performed, N if not performed.
D ,must be less than or equal to 15.0% for quantitation, and less than or
qual to 20.0% for confirmation.

ote: Determining that no compounds were found above the QRL is a form of
uantitation, and therefore, at least one column must meet the 15.0% criteria.

or multicomponent analytes, the single largest peak that is characteristic

dentification of such analytes is based primarily on pattern recognition.

PESTICIDE/PCB STANDARDS SUMMARY

ab Name: Illinois E.P.A.-Springfield Contract:SAUGET

ab Code:_____ Case No.:_____ SAS No.:_____ SDG No.:_____

nstrument ID:21/H5B GC Column ID: DB-1701 (0.53 mm)

DATE(S) OF ANALYSIS	FROM:	04-12-1991	DATE OF ANALYSIS	04-12-1991
	TO:	04-14-1991	TIME OF ANALYSIS	22:19:18
TIME(S) OF ANALYSIS	FROM:	16:20:07	EPA SAMPLE NO. (STANDARD)	Ind. A #2
	TO:	22:53:48		

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR	RT	CALIBRATION FACTOR	Q: N: T:	%D
lpha-BHC	3.588	3.559	3.617	135300				
eta-BHC	7.019	6.961	7.077	ERR				
elta-BHC	5.985	8.083	8.215	85800				
amma-BHC	4.533	4.486	4.580	149500	4.529	153700	Y	2.8
eptachlor	5.106	5.055	5.157	162500	5.104	158700	Y	2.3
ldrin	5.982	5.923	6.041	106450	5.984	93500	Y	12.2
ept. epoxide	9.141	9.048	9.234	79400	9.132	80000	Y	0.8
ndosulfan I	10.721	10.618	10.824	60750	10.715	62950	Y	3.6
ieldrin	13.365	13.235	13.495	50500	13.355	53700	Y	6.3
,4'-DDE	12.325	12.226	12.424	31250				
ndrin	14.668	14.562	14.774	45080				
ndosulfan II	17.618	17.508	17.728	55000	17.618	82500	N	50.0
,4'-DDD	17.445	17.359	17.531	34050				
ndo. sulfate	23.071	22.978	23.165	34225				
,4'-DDT	18.411	18.326	18.496	42950	18.397	70200	N	63.4
ethoxychlor	23.743	23.617	23.869	22220	23.729	23745	Y	6.9
ndrin ketone	26.603	26.494	26.712	29650				
Chlordane	11.672	11.581	11.763	85250				
Chlordane	11.115	11.027	11.203	40500				
oxaphene	19.205	19.129	19.281	1785				
rochlor 1016	4.723	4.676	4.770	10092				
rochlor 1221	2.924	2.898	2.950	6448				
rochlor 1232	4.723	4.685	4.761	4594				
rochlor 1242	4.723	4.697	4.749	8186				
rochlor 1248	5.846	5.798	5.894	5420				
rochlor 1254	8.699	8.639	8.759	4166				
rochlor 1260	15.598	15.511	15.685	4608				

nder QNT Y/N: enter Y if quantitation was performed, N if not performed.
D ,must be less than or equal to 15.0% for quantitation, and less than or
qual to 20.0% for confirmation.

ote: Determining that no compounds were found above the QRL is a form of
uantitation, and therefore, at least one column must meet the 15.0% criteria.

or multicomponent analytes, the single largest peak that is characteristic
f the component should be used to establish retention time and %D.
dentification of such analytes is based primarily on pattern recognition.

PESTICIDE/PCB STANDARDS SUMMARY

ab Name: Illinois E.P.A.-Springfield Contract:SAUGET

ab Code:_____ Case No.:_____ SAS No.:_____ SDG No.:_____

nstrument ID:21/H5B GC Column ID: DB-1701

DATE(S) OF ANALYSIS	FROM:	04-12-1991	DATE OF ANALYSIS	04-14-1991
	TO:	04-14-1991	TIME OF ANALYSIS	22:53:48
TIME(S) OF ANALYSIS	FROM:	16:20:07	EPA SAMPLE NO. (STANDARD)	Ind. B #2
	TO:	22:53:48		

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR	RT	CALIBRATION FACTOR	QNT	%D
lpha-BHC	3.588	3.559	3.617	135300	3.591	137700	Y	1.8
eta-BHC	7.019	6.961	7.077	56500	7.028	55950	Y	1.0
elta-BHC	8.149	8.083	8.215	58450	8.159	58950	Y	0.9
amma-BHC	4.533	4.486	4.580	149500				
eptachlor	5.106	5.055	5.157	162500				
ldrin	5.982	5.923	6.041	106450	7.028	85500	Y	19.7
ept. epoxide	9.141	9.048	9.234	79400				
ndosulfan I	10.721	10.618	10.824	60750				
ieldrin	13.365	13.235	13.495	50500				
,4'-DDE	12.325	12.226	12.424	31250	12.341	31500	Y	0.8
ndrin	14.668	14.562	14.774	45080	14.688	39650	Y	12.0
ndosulfan II	17.618	17.508	17.728	55000				
,4'-DDD	17.445	17.359	17.531	34050	17.456	35925	Y	5.5
ndo. sulfate	23.071	22.978	23.165	34225	23.083	33500	Y	2.1
,4'-DDT	18.411	18.326	18.496	42950				
ethoxychlor	23.743	23.617	23.869	22220				
ndrin ketone	26.603	26.494	26.712	29650	26.603	29325	Y	1.1
Chlorane	11.672	11.581	11.763	85250	11.686	85200	Y	0.1
Chlordane	11.115	11.027	11.203	40500	11.128	39600	Y	2.2
oxaphene	19.205	19.129	19.281	1785				
rochlor 1016	4.723	4.676	4.770	10092				
rochlor 1221	2.924	2.898	2.950	6448				
rochlor 1232	4.723	4.685	4.761	4594				
rochlor 1242	4.723	4.697	4.749	8186				
rochlor 1248	5.846	5.798	5.894	5420				
rochlor 1254	8.699	8.639	8.759	4166				
rochlor 1260	15.598	15.511	15.685	4608				

nder QNT Y/N: enter Y if quantitation was performed, N if not performed.
D ,must be less than or equal to 15.0% for quantitation, and less than or
qual to 20.0% for confirmation.

ote: Determining that no compounds were found above the QRL is a form of
uantitation, and therefore, at least one column must meet the 15.0% criteria.

or multicomponent analytes, the single largest peak that is characteristic
f the component should be used to establish retention time and %D.
dentification of such analytes is based primarily on pattern recognition.

PESTICIDE/PCB IDENTIFICATION

G205

Lab Name: I.E.P.A. - Springfield Contract: SAUGET

Lab Code:_____ Case No.:_____ SAS No.:_____ SDG No.:_____

GC Column ID (1): DB-5 (0.53 mm) GC Column ID (2): DB-1701 (0.53 mm)

Lab Instrument ID (1): 21 / H5A Lab Instrument ID (2): 22 / H5B

Lab Sample ID: D190898

Lab File ID:_____ (only if confirmed by GC/MS)

	PESTICIDE/PCB		RETENTION TIME	RT WINDOW OF STANDARD FROM	TO	QUANT? (Y/N)	GC/MS? (Y/N)
01	Methoxychlor	Column 1	19.883	19.572	20.122	Y	N
02		Column 2	23.653	23.617	23.869	N	N
03	alpha Chlordane	Column 1	9.610	9.532	9.676	Y	-
04		Column 2	~~8.7~~ 11.472 LMC	8 11.581	11.763	N	N
05	gamma Chlordane	Column 1	8.733	8.669	8.807	Y	-
06		Column 2	11.128	11.027	11.203	N	N
07		Column 1				-	-
08		Column 2				-	-
09		Column 1				-	-
10		Column 2				-	-
11		Column 1				-	-

PESTICIDE/PCB IDENTIFICATION

X101

Lab Name: I.E.P.A. - Springfield Contract: SAUGET

Lab Code:_____ Case No.:_____ SAS No.:_____ SDG No.:_____

GC Column ID (1): DB-5 (0.53 mm) GC Column ID (2): DB-1701 (0.53 mm)

Lab Instrument ID (1): 21 / H5A Lab Instrument ID (2): 22 / H5B

Lab Sample ID: D190900

Lab File ID:_____ (only if confirmed by GC/MS)

	PESTICIDE/PCB	RETENTION TIME		RT WINDOW OF STANDARD FROM	TO	QUANT? (Y/N)	GC/MS? (Y/N)
01	Hept Epox	Column 1	7.589	7.496	7.652		N
02		Column 2	9.133	9.048	9.234	N	N
03	alpha Chlordane	Column 1	9.598	9.532	9.676	Y	N
04		Column 2	11.753	11.581	11.763	N	N
05	gamma Chlordane	Column 1	8.722	8.669	8.807	Y	N
06		Column 2	11.124	11.027	11.203	N	N
07		Column 1				-	-
08		Column 2				-	-
09		Column 1				-	-
10		Column 2				-	-
11		Column 1				-	-
12		Column 2				-	-

Comments: _____

10

PESTICIDE/PCB IDENTIFICATION

X102

Lab Name: I.E.P.A. - Springfield Contract: SAUGET

Lab Code:_____ Case No.:_____ SAS No.:_____ SDG No.:_____

GC Column ID (1): DB-5 (0.53 mm) GC Column ID (2): DB-1701 (0.53 mm)

Lab Instrument ID (1): 21 / H5A Lab Instrument ID (2): 22 / H5B

Lab Sample ID: D190901

Lab File ID:_____ (only if confirmed by GC/MS)

	PESTICIDE/PCB	RETENTION TIME		RT WINDOW OF STANDARD FROM	TO	QUANT? (Y/N)	GC/MS? (Y/N)
01	DDE	Column 1	10.955	10.850	11.110	Y	N
02		Column 2	12.331	12.226	12.224	N	N
03		Column 1					
04		Column 2					
05		Column 1					
06		Column 2					
07		Column 1					
08		Column 2					
09		Column 1					
10		Column 2					
11		Column 1					
12		Column 2					

Comments:

10

PESTICIDE/PCB IDENTIFICATION

X103

Lab Name: I.E.P.A. - Springfield Contract: SAUGET

Lab Code:_____ Case No.:_____ SAS No.:_____ SDG No.:_____

GC Column ID (1): DB-5 (0.53 mm) GC Column ID (2): DB-1701 (0.53 mm)

Lab Instrument ID (1): 21 / H5A Lab Instrument ID (2): 22 / H5B

Lab Sample ID: D190902

Lab File ID:_____ (only if confirmed by GC/MS)

	PESTICIDE/PCB		RETENTION TIME	RT WINDOW OF STANDARD FROM	TO	QUANT? (Y/N)	GC/MS? (Y/N)
01	DDE	Column 1	10.965	10.850	11.110	Y	N
02		Column 2	12.334	12.226	12.424	N	N
03	Endosulfan II	Column 1	13.349	12.950	13.482	Y	N
04		Column 2	17.580	17.508	17.728	N	N
05	Methoxychlor	Column 1	19.861	19.572	20.172	Y	N
06		Column 2	23.669	23.617	23.869	N	N
07		Column 1				-	-
08		Column 2				-	-
09		Column 1				-	-
10		Column 2				-	-
11		Column 1				-	-
12		Column 2				-	-

Comments:

10

PESTICIDE/PCB IDENTIFICATION

X104

Lab Name: I.E.P.A. - Springfield Contract: SAUGET

Lab Code:_____ Case No.:_____ SAS No.:_____ SDG No.:_____

GC Column ID (1): DB-5 (0.53 mm) GC Column ID (2): DB-1701 (0.53 mm)

Lab Instrument ID (1): 21 / H5A Lab Instrument ID (2): 22 / H5B

Lab Sample ID: D190903

Lab File ID:_____ (only if confirmed by GC/MS)

	PESTICIDE/PCB		RETENTION TIME	RT WINDOW OF STANDARD FROM	TO	QUANT? (Y/N)	GC/MS? (Y/N)
01	Heptachlor	Column 1	4.914	4.849	4.957	Y	N
02		Column 2	5.114	5.055	5.157	N	N
03	Hept. epoxide	Column 1	7.593	7.496	7.652	Y	N
04		Column 2	9.162	9.048	9.234	N	N
05	alpha Chlordane	Column 1	9.657	9.532	9.676	Y	N
06		Column 2	11.815	11.581	11.763	N	N
07	gamma Chlordane	Column 1	8.760	8.669	8.807	Y	N
08		Column 2	11.150	11.027	11.203	N	N
09		Column 1				-	-
10		Column 2				-	-
11		Column 1				-	-
12		Column 2				-	-

Comments:

PESTICIDE/PCB IDENTIFICATION

X106

Lab Name: I.E.P.A. - Springfield Contract: SAUGET

Lab Code:_____ Case No.:_____ SAS No.:_____ SDG No.:_____

GC Column ID (1): DB-5 (0.53 mm) GC Column ID (2): DB-1701 (0.53 mm)

Lab Instrument ID (1): 21 / H5A Lab Instrument ID (2): 22 / H5B

Lab Sample ID: D190904

Lab File ID:_____ (only if confirmed by GC/MS)

	PESTICIDE/PCB	RETENTION TIME		RT WINDOW OF STANDARD FROM	TO	QUANT? (Y/N)	GC/MS? (Y/N)
01	Beta - BHC	Column 1	3.083	3.046	3.118	Y	N
02		Column 2	6.820	6.691	7.077	N	N
03	Endrin	Column 1	12.512	12.453	12.799	Y	N
04		Column 2	14.651	14.562	14.774	N	N
05	Endosulfan II	Column 1	13.408	12.950	13.482	Y	N
06		Column 2	17.607	17.508	17.728	N	N
07	Aroclor 1254	Column 1	9.138	8.873	9.175	Y	-
08		Column 2	8.733	8.639	8.759	N	-
09	Aroclor 1260	Column 1	20.727	20.533	20.941	Y	-
10		Column 2	15.628	15.511	15.685	N	-
11		Column 1				-	-
12		Column 2				-	-

Comments: _____

PESTICIDE/PCB IDENTIFICATION

X107

Lab Name: I.E.P.A. - Springfield Contract: SAUGET

Lab Code:_____ Case No.:_____ SAS No.:_____ SDG No.:_____

GC Column ID (1): DB-5 (0.53 mm) GC Column ID (2): DB-1701 (0.53 mm)

Lab Instrument ID (1): 21 / H5A Lab Instrument ID (2): 22 / H5B

Lab Sample ID: D190905

Lab File ID:_____ (only if confirmed by GC/MS)

	PESTICIDE/PCB	RETENTION TIME		RT WINDOW OF STANDARD FROM	TO	QUANT? (Y/N)	GC/MS? (Y/N)
01	Endrin	Column 1	12.693	12.453	12.799	Y	N
02		Column 2	14.650	14.562	14.774	N	N
03	Aroclor 1254	Column 1	9.138	8.873	9.175	Y	_
04		Column 2	8.732	8.639	8.759	N	_
05	Aroclor 1260	Column 1	20.754	20.533	20.941	Y	_
06		Column 2	15.633	15.511	15.685	N	_
07		Column 1				_	_
08		Column 2				_	_
09		Column 1				_	_
10		Column 2				_	_
11		Column 1				_	_
12		Column 2				_	_

Comments: background levels too high for confirmation of PCBs by gc/ms - we did try to do it though

10

PESTICIDE/PCB IDENTIFICATION

X110

Lab Name: I.E.P.A. - Springfield Contract: SAUGET

Lab Code:_____ Case No.:_____ SAS No.:_____ SDG No.:_____

GC Column ID (1): DB-5 (0.53 mm) GC Column ID (2): DB-1701 (0.53 mm)

Lab Instrument ID (1): 21 / H5A Lab Instrument ID (2): 22 / H5B

Lab Sample ID: D190908

Lab File ID:_____ (only if confirmed by GC/MS)

	PESTICIDE/PCB	RETENTION TIME		RT WINDOW OF STANDARD FROM	TO	QUANT? (Y/N)	GC/MS? (Y/N)
01	DDE	Column 1	10.992	10.850	11.110	Y	N
02		Column 2	12.368	12.226	12.424	N	N
03		Column 1					
04		Column 2					
05		Column 1					
06		Column 2					
07		Column 1					
08		Column 2					
09		Column 1					
10		Column 2					
11		Column 1					
12		Column 2					

Comments:

PESTICIDE/PCB IDENTIFICATION

X III

Lab Name: I.E.P.A. - Springfield Contract: SAUGET

Lab Code:_____ Case No.:_____ SAS No.:_____ SDG No.:_____

GC Column ID (1): DB-5 (0.53 mm) GC Column ID (2): DB-1701 (0.53 mm)

Lab Instrument ID (1): 21 / H5A Lab Instrument ID (2): 22 / H5B

Lab Sample ID: D190909

Lab File ID:_____ (only if confirmed by GC/MS)

	PESTICIDE/PCB		RETENTION TIME	RT WINDOW OF STANDARD FROM	TO	QUANT? (Y/N)	GC/MS? (Y/N)
01	DDE	Column 1	10.859	10.850	11.110	Y	N
02		Column 2	12.299	12.226	12.424	N	N
03	Endrin	Column 1	12.544	12.453	12.799	Y	N
04		Column 2	14.644	14.562	14.774	N	N
05	Endosulfan II	Column 1	13.389	12.950	13.482	Y	N
06		Column 2	17.598	17.508	17.728	N	N
07	Aroclor 1254	Column 1	9.123	8.873	9.175	Y	-
08		Column 2	8.732	8.639	8.759	N	-
09	Aroclor 1260	Column 1	20.729	20.533	20.941	Y	-
10		Column 2	15.624	15.511	15.685	N	-
11		Column 1				-	-
12		Column 2				-	-

Comments:

10

PESTICIDE/PCB IDENTIFICATION

X113

Lab Name: I.E.P.A. - Springfield Contract: SAUGET

Lab Code:_____ Case No.:_____ SAS No.:_____ SDG No.:_____

GC Column ID (1): DB-5 (0.53 mm) GC Column ID (2): DB-1701 (0.53 mm)

Lab Instrument ID (1): 21 / H5A Lab Instrument ID (2): 22 / H5B

Lab Sample ID: D190911

Lab File ID:_____ (only if confirmed by GC/MS)

	PESTICIDE/PCB	RETENTION TIME		RT WINDOW OF STANDARD FROM	TO	QUANT? (Y/N)	GC/MS? (Y/N)
01	Methoxychlor	Column 1	20.011	19.572	20.172	Y	N
02		Column 2	23.712	23.617	23.869	N	N
03		Column 1				-	-
04		Column 2				-	-
05		Column 1				-	-
06		Column 2				-	-
07		Column 1				-	-
08		Column 2				-	-
09		Column 1				-	-
10		Column 2				-	-
11		Column 1				-	-
12		Column 2				-	-

Comments: _____

Sauget

0412H5A.01

COMPOUND DB-5	RT	RT WINDOW FROM	RT WINDOW TO
alpha-BHC	2.729	2.693	2.765
beta-BHC	3.082	3.046	3.118
delta-BHC	3.617	3.581	3.653
gamma-BHC	3.241	3.205	3.277
Heptachlor	4.903	4.849	4.957
Aldrin	6.025	5.967	6.083
Hept. epoxide	7.574	7.496	7.652
Endosulfan I	9.439	9.342	9.536
Dieldrin	11.065	10.961	11.169
4,4'-DDE	10.980	10.850	11.110
Endrin	12.626	12.453	12.799
Endosulfan II	13.216	12.950	13.482
4,4'-DDD	13.984	13.820	14.148
Endo. sulfate	15.883	15.721	16.045
4,4'-DDT	16.302	16.137	16.467
Methoxychlor	19.872	19.572	20.172
Endrin ketone	18.365	18.160	18.570
a Chlordane	9.604	9.532	9.676
g Chlordane	8.738	8.669	8.807
Toxaphene	16.469	16.339	16.599
Arochlor 1016	4.372	4.330	4.414
Arochlor 1221	2.686	2.650	2.722
Arochlor 1232	2.685	2.649	2.721
Arochlor 1242	4.372	4.336	4.408
Arochlor 1248	9.106	9.070	9.142
Arochlor 1254	9.024	8.873	9.175
Arochlor 1260	20.737	20.533	20.941
Endrin Aldehy	14.444	14.289	14.599
DBC	22.629	22.290	22.968

Sauget
DB-5

PERKIN-ELMER CLAS 2000 04/13/91 09:00:51

EXTERNAL STANDARD

SAMPLE: 0412H5A .01 INST:21 VIAL: 0 SEQ NUMBER:001
TEST : DATE-TIME COLLECTED : 04/12/91 15:45:01
COLLECTION TIME : 29.88 DATE-TIME PROCESSED : 04/12/91 16:15:28
METHOD: CLPA / CLPA REV #: 00015 ANALYST: CELESTE SAMP RATE: 1.56

SAMPLE WT : 1.0000 STANDARD WT : 1.0000 DILUTION FACTOR : 1.0000

PK NO	RT MINUTES	PEAK HEIGHT	COMPONENT NAME
001	1.730	390	
002	6.041	1962	— ALDRIN
003	12.626	2433	ENDRIN
004	16.302	6046	DDT
005	18.389	158	
006	22.629	3578	DBC
		14567	

EVAL A
1.0 ml

22.2895 – 22.9684
20-24

ck .28
.29
.30
.34
.42

Eval A D1.. 64 .01
B D5.. 68 .02 Init
C D9.. 612 .03
IND A D13.. 623 .04 Init
B D24.. 635 .05 Init
Eval B D36.. 639 .08 1st Eval B
IND A #1 D40.. 650 .24 Ind A #1
Eval B D51.. 654 .31 2nd Eval B
Ind B #1 D55.. 666 .37 Ind B #1
Eval B D67.. 670 .43 Eval B #3
Ind A #1 D71.. 681 .45 Ind A #2
Ind B #2 D82.. 693 .46 Ind B #2

90549

for conf.
90895-chl.
900-He, chl.
909

A	B	C	D	E
1	time	ht	date	time

PERKIN-ELMER CLAS 2000 04/13/91 09:00:51

EXTERNAL STANDARD

SAMPLE: 0412H5A .02
TEST :
COLLECTION TIME : 29.88
METHOD: CLPA / CLPA REV #: 00015

INST:21 VIAL: 0 SEQ NUMBER:002
DATE-TIME COLLECTED : 04/12/91 16:20:06
DATE-TIME PROCESSED : 04/12/91 16:50:50
ANALYST: CELESTE SAMP RATE: 1.56

SAMPLE WT : 1.0000 STANDARD WT : 1.0000 DILUTION FACTOR : 1.0000

PK NO	RT MINUTES	PEAK HEIGHT	COMPONENT NAME
001	6.027	960	
002	12.602	1183	ALDRIN
003	16.281	2717	ENDRIN
004	18.389	90	DDT
005	22.607	1758	DBC
		6708	

EVAL B
1.0 ml

PERKIN-ELMER CLAS 2000 04/13/91 09:00:51

EXTERNAL STANDARD

SAMPLE: 0412H5A .03 INST:21 VIAL: 0 SEQ NUMBER:003
TEST : DATE-TIME COLLECTED : 04/12/91 16:54:56
COLLECTION TIME : 29.88 DATE-TIME PROCESSED : 04/12/91 17:25:34
METHOD: CLPA / CLPA REV #: 00015 ANALYST: CELESTE SAMP RATE: 1.56

SAMPLE WT : 1.0000 STANDARD WT : 1.0000 DILUTION FACTOR : 1.0000

PK NO	RT MINUTES	PEAK HEIGHT	COMPONENT NAME
001	1.725	496	
002	6.027	488	ALDRIN
003	12.608	590	ENDRIN
004	16.277	1315	DDT
005	18.368	75	
006	22.598	900	DBC
		3864	

EVAL C

1.0 ml

PERKIN-ELMER CLAS 2000 04/13/91 09:00:51

EXTERNAL STANDARD

SAMPLE: 0412H5A .04 INST:21 VIAL: 0 SEQ NUMBER:004
TEST : DATE-TIME COLLECTED : 04/12/91 17:29:47
COLLECTION TIME : 29.88 DATE-TIME PROCESSED : 04/12/91 18:00:29
METHOD: CLPA / CLPA REV #: 00015 ANALYST: CELESTE SAMP RATE: 1.56

SAMPLE WT : 1.0000 STANDARD WT : 1.0000 DILUTION FACTOR : 1.0000

PK NO	RT MINUTES	PEAK HEIGHT	COMPONENT NAME
001	3.241	1973	γ-BHC
002	4.903	1664	Heptachlor
003	6.025	912	Aldrin
004	7.574	908	Hept. Epox
005	8.363	247	
006	9.439	1324	Endosulfan I
007	11.065	981	Dieldrin
008	13.216	1913	Endosulfan II
009	14.444	2537	Endrin Aldehyde
010	16.279	2051	DDT
011	19.872	6801	Methoxychlor
012	22.605	3705 ✓	DBC
		25016	

INDA

1.0 ml

PERKIN-ELMER CLAS 2000 04/13/91 09:00:51

EXTERNAL STANDARD

SAMPLE: 0412H5A .05 INST:21 VIAL: 0 SEQ NUMBER:005
TEST : DATE-TIME COLLECTED : 04/12/91 18:04:36
COLLECTION TIME : 29.88 DATE-TIME PROCESSED : 04/12/91 18:35:15
METHOD: CLPA / CLPA REV #: 00015 ANALYST: CELESTE SAMP RATE: 1.56

SAMPLE WT : 1.0000 STANDARD WT : 1.0000 DILUTION FACTOR : 1.0000

PK NO	RT MINUTES	PEAK HEIGHT	COMPONENT NAME
001	2.729	1643	α-BHC
002	3.082	2341	β-BHC
003	3.617	2483	Δ-BHC · IND B
004	6.028	1580	Aldrin
005	8.738	1323	γ-chlordane
006	9.604	2353	α-chlordane
007	10.980	884	DDE 1.0 ml
008	12.597	788	Endrin
009	13.984	1147	DDD
010	15.883	1989	Endosulfan Sulfate
011	18.365	2187	Endrin Ketone
012	22.602	3161	DBC
		21879	

PERKIN-ELMER CLAS 2000 04/15/91 08:04:07

EXTERNAL STANDARD

SAMPLE: 0412H5A .06 INST:21 VIAL: 0 SEQ NUMBER:006
TEST : DATE-TIME COLLECTED : 04/12/91 18:39:28
COLLECTION TIME : 29.88 DATE-TIME PROCESSED : 04/12/91 19:10:24
METHOD: CLPA / CLPA REV #: 00015 ANALYST: CELESTE SAMP RATE: 1.56

SAMPLE WT : 1.0000 STANDARD WT : 1.0000 DILUTION FACTOR : 1.0000

PK NO	RT MINUTES	PEAK HEIGHT	COMPONENT NAME
001	1.403	493	
002	1.726	408	
003	6.645	118	
004	7.447	241	
005	8.261	222	
006	9.048	241	
007	10.795	699	
008	12.571	636	
009	14.024	1340	
010	15.399	537	
011	16.469	~~1639~~ 1639	Tx.
012	17.151	1185	
013	18.202	1730	
014	18.658	1444	
015	19.397	673	
016	21.323	614	
017	22.603	3708	DBC
018	27.776	78	
		16006	

TOXAPH

1.0 ml

PERKIN-ELMER CLAS 2000 04/15/91 08:04:07

EXTERNAL STANDARD

SAMPLE: 0412H5A .07 INST:21 VIAL: 0 SEQ NUMBER:007
TEST : DATE-TIME COLLECTED : 04/12/91 19:14:18
COLLECTION TIME : 29.88 DATE-TIME PROCESSED : 04/12/91 19:44:44
METHOD: CLPA / CLPA REV #: 00015 ANALYST: CELESTE SAMP RATE: 1.56

SAMPLE WT : 1.0000 STANDARD WT : 1.0000 DILUTION FACTOR : 1.0000

PK NO	RT MINUTES	PEAK HEIGHT	COMPONENT NAME
001	1.451	278	
002	1.724	453	
003	2.181	354	
004	2.685	2499	
005	3.008	273	
006	3.388	3616	
007	3.766	2304	
008	4.372	5803	1016
009	4.651	2506	
010	4.862	1365	
011	5.523	1478	
012	6.100	1597	from 1016
013	6.539	1273	
014	7.904	841	
015	9.131	780	
016	11.403	453	
017	12.507	810	
018	13.920	1767	
019	14.950	2807	
020	15.707	1268	
021	16.505	2722	
022	17.461	2140	
023	18.811	1525	
024	20.737	3455	1260
025	22.622	3525	DBC
026	24.931	813	
027	27.413	310	
		47015	

16/60

1.0 ml

17.461 2140
20.737 3455
5595

5

$$\frac{12.507 \text{ pk.}}{20.737} = \frac{810}{3455} = 23.4\%$$

PERKIN-ELMER CLAS 2000 04/15/91 08:04:07

EXTERNAL STANDARD

SAMPLE: 0412H5A .08 INST:21 VIAL: 0 SEQ NUMBER:008
TEST : DATE-TIME COLLECTED : 04/12/91 19:49:07
COLLECTION TIME : 29.88 DATE-TIME PROCESSED : 04/12/91 20:19:44
METHOD: CLPA / CLPA REV #: 00015 ANALYST: CELESTE SAMP RATE: 1.56

SAMPLE WT : 1.0000 STANDARD WT : 1.0000 DILUTION FACTOR : 1.0000

PK NO	RT MINUTES	PEAK HEIGHT	COMPONENT NAME
001	1.405	1092	
002	1.622	1450	
003	1.965	474	
004	2.181	729	
005	2.460	1616	
006	2.686	3849	1221
007	3.417	791	
008	4.374	450	
009	6.197	85	
010	22.596	3771	DBC
		14307	

1221

1.0ul

PERKIN-ELMER CLAS 2000 04/15/91 08:04:07

EXTERNAL STANDARD

SAMPLE: 0412H5A .09 INST:21 VIAL: 0 SEQ NUMBER:009
TEST : DATE-TIME COLLECTED : 04/12/91 20:23:53
COLLECTION TIME : 29.88 DATE-TIME PROCESSED : 04/12/91 20:54:21
METHOD: CLPA / CLPA REV #: 00015 ANALYST: CELESTE SAMP RATE: 1.56

SAMPLE WT : 1.0000 STANDARD WT : 1.0000 DILUTION FACTOR : 1.0000

PK NO	RT MINUTES	PEAK HEIGHT	COMPONENT NAME
001	1.620	932	
002	2.180	439	
003	2.459	814	
004	2.685	2587	1232
005	3.389	1807	
006	3.765	1040	
007	4.372	2590	
008	4.651	1130	
009	5.360	728	
010	6.101	822	
011	6.540	675	
012	7.803	855	
013	8.765	470	
014	11.499	170	
015	13.419	133	
016	22.596	3622	DBC
		18814	

1232

1.0 ml

PERKIN-ELMER CLAS 2000 04/15/91 08:04:07

EXTERNAL STANDARD

SAMPLE: 0412H5A .10 INST:21 VIAL: 0 SEQ NUMBER:010
TEST : DATE-TIME COLLECTED : 04/12/91 20:58:43
COLLECTION TIME : 29.88 DATE-TIME PROCESSED : 04/12/91 21:29:21
METHOD: CLPA / CLPA REV #: 00015 ANALYST: CELESTE SAMP RATE: 1.56

SAMPLE WT : 1.0000 STANDARD WT : 1.0000 DILUTION FACTOR : 1.0000

PK NO	RT MINUTES	PEAK HEIGHT	COMPONENT NAME
001	2.181	328	
002	2.685	2270	
003	3.387	3092	
004	3.765	1934	
005	4.372	4716	1242
006	4.650	2042	
007	4.862	1101	
008	5.517	1170	
009	6.112	1333	
010	6.539	1147	
011	7.787	1350	
012	8.765	759	
013	11.499	218	
014	13.435	152	
015	22.594	3669	DBC
		25281	

1242

1.0ml

PERKIN-ELMER CLAS 2000 04/15/91 08:04:07

EXTERNAL STANDARD

SAMPLE: 0412H5A .11 INST:21 VIAL: 0 SEQ NUMBER:011
TEST : DATE-TIME COLLECTED : 04/12/91 21:33:33
COLLECTION TIME : 29.88 DATE-TIME PROCESSED : 04/12/91 22:04:01
METHOD: CLPA / CLPA REV #: 00015 ANALYST: CELESTE SAMP RATE: 1.56

SAMPLE WT : 1.0000 STANDARD WT : 1.0000 DILUTION FACTOR : 1.0000

PK NO	RT MINUTES	PEAK HEIGHT	COMPONENT NAME
001	1.404	783	
002	1.723	500	
003	3.382	1647	
004	3.764	971	
005	4.371	4055	1248
006	4.652	1251	
007	5.523	1902	
008	6.090	1999	
009	6.535	1913	
010	7.808	2665	
011	8.764	1489	
012	11.499	578	
013	12.352	129	
014	13.429	504	
015	15.093	443	
016	16.523	142	
017	20.737	129	
018	22.595	3711	DBC
		24811	

1248

1.0 ml

PERKIN-ELMER CLAS 2000 04/15/91 08:04:07

EXTERNAL STANDARD

SAMPLE: 0412H5A .12 INST:21 VIAL: 0 SEQ NUMBER:012
TEST : DATE-TIME COLLECTED : 04/12/91 22:08:27
COLLECTION TIME : 29.88 DATE-TIME PROCESSED : 04/12/91 22:39:11
METHOD: CLPA / CLPA REV #: 00015 ANALYST: CELESTE SAMP RATE: 1.56

SAMPLE WT : 1.0000 STANDARD WT : 1.0000 DILUTION FACTOR : 1.0000

PK NO	RT MINUTES	PEAK HEIGHT	COMPONENT NAME
001	5.345	1604	
002	6.067	765	
003	6.533	252	
004	7.888	1955	
005	9.106	2303	
006	10.795	734	
007	11.482	1790	
008	13.387	2212	
009	15.008	2101	
010	15.680	255	
011	16.503	2367	
012	17.973	651	
013	19.488	333	
014	20.725	213	
015	22.580	3710	DBC
		21245	

1254

1.0ml

this pk 10% of 7.888 pk.
& <10% of 9.106 pk.

10361

PERKIN-ELMER CLAS 2000 04/15/91 08:04:07

EXTERNAL STANDARD

SAMPLE: 0412H5A .13 INST:21 VIAL: 0 SEQ NUMBER:013
TEST : DATE-TIME COLLECTED : 04/12/91 22:43:14
COLLECTION TIME : 29.88 DATE-TIME PROCESSED : 04/12/91 23:13:52
METHOD: CLPA / CLPA REV #: 00015 ANALYST: CELESTE SAMP RATE: 1.56

SAMPLE WT : 1.0000 STANDARD WT : 1.0000 DILUTION FACTOR : 1.0000

PK NO	RT MINUTES	PEAK HEIGHT	COMPONENT NAME
001	1.401	607	
002	2.416	67	
003	22.581	2440	DBC
		3114	

90894 6201

1.0ml of 10ml

~~½ ext~~

ND

PERKIN-ELMER CLAS 2000 04/15/91 08:04:07

EXTERNAL STANDARD

SAMPLE: 0412H5A .14 INST:21 VIAL: 0 SEQ NUMBER:014
TEST : DATE-TIME COLLECTED : 04/12/91 23:18:00
COLLECTION TIME : 29.88 DATE-TIME PROCESSED : 04/12/91 23:48:49
METHOD: CLPA / CLPA REV #: 00015 ANALYST: CELESTE SAMP RATE: 1.56

SAMPLE WT : 1.0000 STANDARD WT : 1.0000 DILUTION FACTOR : 1.0000

PK NO	RT MINUTES	PEAK HEIGHT	COMPONENT NAME
001	1.400	686	
002	22.583	2640	DBC
		3326	

90895

6202

1.0ml of 10ml

~~1/2 ext~~

ND

PERKIN-ELMER CLAS 2000 04/15/91 08:04:07

EXTERNAL STANDARD

SAMPLE: 0412H5A .15 INST:21 VIAL: 0 SEQ NUMBER:015
TEST : DATE-TIME COLLECTED : 04/12/91 23:52:50
COLLECTION TIME : 29.88 DATE-TIME PROCESSED : 04/13/91 00:23:49
METHOD: CLPA / CLPA REV #: 00015 ANALYST: CELESTE SAMP RATE: 1.56

SAMPLE WT : 1.0000 STANDARD WT : 1.0000 DILUTION FACTOR : 1.0000

PK NO	RT MINUTES	PEAK HEIGHT	COMPONENT NAME
001	1.401	883	
002	22.586	2825	DBC
		3708	

90896 6203

1.0 ml of 10 ml

~~½ ext~~

ND

PERKIN-ELMER CLAS 2000 04/15/91 08:04:07

EXTERNAL STANDARD

SAMPLE: 0412H5A .16 INST:21 VIAL: 0 SEQ NUMBER:016
TEST : DATE-TIME COLLECTED : 04/13/91 00:27:39
COLLECTION TIME : 29.88 DATE-TIME PROCESSED : 04/13/91 00:58:06
METHOD: CLPA / CLPA REV #: 00015 ANALYST: CELESTE SAMP RATE: 1.56

SAMPLE WT : 1.0000 STANDARD WT : 1.0000 DILUTION FACTOR : 1.0000

PK NO	RT MINUTES	PEAK HEIGHT	COMPONENT NAME
001	1.402	685	
002	2.451	82	
003	5.333	106	
004	16.202	1963	DDT?
005	22.610	2799 ✓	DBC
		5635	

90897 6204

1.0ml of 10ml

1/2 ~~ext~~

PERKIN-ELMER CLAS 2000 04/15/91 08:04:07

EXTERNAL STANDARD

SAMPLE: 0412H5A .17 INST:21 VIAL: 0 SEQ NUMBER:017
TEST : DATE-TIME COLLECTED : 04/13/91 01:02:28
COLLECTION TIME : 29.88 DATE-TIME PROCESSED : 04/13/91 01:32:54
METHOD: CLPA / CLPA REV #: 00015 ANALYST: CELESTE SAMP RATE: 1.56

SAMPLE WT : 1.0000 STANDARD WT : 1.0000 DILUTION FACTOR : 1.0000

PK NO	RT MINUTES	PEAK HEIGHT	COMPONENT NAME
001	1.248	4409	
002	1.563	8425	
003	1.727	822	
004	2.209	323	
005	3.019	5772	
006	3.227	2112	
007	3.644	4904	→ BHC?
008	4.390	27852	no Hept.
009	5.019	8545	
010	5.533	2795	
011	6.006	17099	→ Aldrin?
012	6.758	1832	
013	7.159	17019	
014	8.733	33238	→ γ ?
015	9.610	31566	→ α chl. ?
016	10.853	1715	→ DDE ?
017	14.198	5879	
018	14.640	2505	
019	15.243	279	
020	16.240	748	→ DDT ?
021	17.749	600	
022	19.883	252	→ Meth ?
023	22.595	2705	DBC
		181396	

90898 6205

1.0ml of 10ml

$\frac{1}{2}$ ext

γ $\left(\frac{33238}{1323} \times 1 \times .02\right)/1 \times \frac{10}{1} = 5.02\ \mu g/l$

α $\left(\frac{31566}{2353} \times 1 \times .028\right)/1 \times \frac{10}{1} = 3.76$

Meth $\left(\frac{252}{6801} \times 1 \times .2\right)/1 \times \frac{10}{1} = .074$

pk at Aldrin which co-elutes.

$\left(\frac{17099}{1185} \times 1 \times .01\right)/1 \times \frac{10}{1} = 1.45\ \mu g/l$

PERKIN-ELMER CLAS 2000 04/15/91 08:04:07

EXTERNAL STANDARD

SAMPLE: 0412H5A .18 INST:21 VIAL: 0 SEQ NUMBER:018
TEST : DATE-TIME COLLECTED : 04/13/91 01:37:14
COLLECTION TIME : 29.88 DATE-TIME PROCESSED : 04/13/91 02:07:53
METHOD: CLPA / CLPA REV #: 00015 ANALYST: CELESTE SAMP RATE: 1.56

SAMPLE WT : 1.0000 STANDARD WT : 1.0000 DILUTION FACTOR : 1.0000

PK NO	RT MINUTES	PEAK HEIGHT	COMPONENT NAME
001	6.025	980	Aldrin
002	12.597	1200	Endrin
003	16.274	2745	DDT
004	18.373	127	
005	22.601	1768	DBC
		6820	

EVAL B

1.0 ml

PERKIN-ELMER CLAS 2000 04/15/91 08:04:07

EXTERNAL STANDARD

SAMPLE: 0412H5A .19 INST:21 VIAL: 0 SEQ NUMBER:019
TEST : DATE-TIME COLLECTED : 04/13/91 02:11:59
COLLECTION TIME : 29.88 DATE-TIME PROCESSED : 04/13/91 02:42:46
METHOD: CLPA / CLPA REV #: 00015 ANALYST: CELESTE SAMP RATE: 1.56

SAMPLE WT : 1.0000 STANDARD WT : 1.0000 DILUTION FACTOR : 1.0000

PK NO	RT MINUTES	PEAK HEIGHT	COMPONENT NAME
001	1.247	4457	
002	1.561	8377	
003	1.726	734	
004	3.015	5286	
005	3.233	4634	γBHC
006	3.699	4434	
007	4.386	25632	
008	4.893	8670	Hept?
009	5.525	2915	
010	6.005	17957	Aldrin
011	6.749	1655	
012	7.152	16214	β
013	8.725	29579	α
014	9.602	28557	
015	10.986	3369	Diel.
016	12.585	2500	Endri-
017	14.197	5131	
018	14.635	2405	
019	15.232	265	
020	16.267	3059	DDT
021	17.743	610	
022	19.872	250	m.
023	22.592	2722	DBC
		179412	

6205 MS

90949 MS

1.0ml of 10ml

½ ext

PERKIN-ELMER CLAS 2000 04/15/91 08:04:07

EXTERNAL STANDARD

SAMPLE: 0412H5A .20 INST:21 VIAL: 0 SEQ NUMBER:020
TEST : DATE-TIME COLLECTED : 04/13/91 02:46:47
COLLECTION TIME : 29.88 DATE-TIME PROCESSED : 04/13/91 03:17:34
METHOD: CLPA / CLPA REV #: 00015 ANALYST: CELESTE SAMP RATE: 1.56

SAMPLE WT : 1.0000 STANDARD WT : 1.0000 DILUTION FACTOR : 1.0000

PK NO	RT MINUTES	PEAK HEIGHT	COMPONENT NAME
001	1.245	4214	
002	1.401	579	
003	1.561	8316	
004	1.725	906	
005	1.884	454	
006	3.039	6902	
007	3.233	5547	BHC
008	3.640	4380	
009	4.386	27239	
010	4.891	9239	Hept
011	5.526	3537	
012	6.006	18977	Aldrin
013	6.746	1731	
014	7.154	17200	
015	8.724	31086	γ
016	9.607	30000	α
017	10.984	3571	Diel.
018	12.583	2798	Endrin
019	14.197	5423	
020	14.635	2651	
021	15.224	300	
022	16.267	3335	DDT
023	17.737	662	
024	19.867	261	M.
025	22.586	2944	DBC
		192252	

6205 MSD

90949 MSD

1.0 ml of 10 ml

½ ext

PERKIN-ELMER CLAS 2000 04/15/91 08:04:07

EXTERNAL STANDARD

SAMPLE: 0412H5A .21 INST:21 VIAL: 0 SEQ NUMBER:021
TEST : DATE-TIME COLLECTED : 04/13/91 03:21:34
COLLECTION TIME : 29.88 DATE-TIME PROCESSED : 04/13/91 03:52:00
METHOD: CLPA / CLPA REV #: 00015 ANALYST: CELESTE SAMP RATE: 1.56

SAMPLE WT : 1.0000 STANDARD WT : 1.0000 DILUTION FACTOR : 1.0000

PK NO	RT MINUTES	PEAK HEIGHT	COMPONENT NAME
001	1.402	667	
002	1.721	509	
003	22.590	2824 -	DBC
		4000	

PBLKW1

90950 PBLKW

1.0ml of 10ml

½ ext

ND

PERKIN-ELMER CLAS 2000 04/15/91 08:04:07

EXTERNAL STANDARD

SAMPLE: 0412H5A .22 INST:21 VIAL: 0 SEQ NUMBER:022
TEST : DATE-TIME COLLECTED : 04/13/91 03:56:22
COLLECTION TIME : 29.88 DATE-TIME PROCESSED : 04/13/91 04:26:48
METHOD: CLPA / CLPA REV #: 00015 ANALYST: CELESTE SAMP RATE: 1.56

SAMPLE WT : 1.0000 STANDARD WT : 1.0000 DILUTION FACTOR : 1.0000

PK NO	RT MINUTES	PEAK HEIGHT	COMPONENT NAME
001	2.900	484	
002	3.996	568	
003	4.387	2620	
004	4.956	318	- Hept. 2 NO
005	5.938	2342	
006	6.475	1296	
007	7.150	5437	
008	7.589	4662	- Hept Epox 2X
009	8.722	29770	- β Chl 2X
010	9.598	43999	- α Chl 2X
011	10.892	1262	DDE 4X
012	12.261	1149	
013	13.088	1196	- Endo II ?? NO
014	14.192	12363	
015	14.653	10958	
016	15.863	1185	Endo S. NO
017	16.608	1097	
018	17.468	751	
019	19.765	788	
020	22.585	2997	— DBC
021	27.333	320	
		125562	

90900

X101

1.0 ml of 20 ml

½ ext

Hept. Epox. conc $\left(\frac{4662}{\cancel{1664}\ 908} \times 1 \times .01\right)/1 \times \frac{20 \times 2}{.0255} = \cancel{43.9}\ 80.5\ \mu g/kg$

β C $\left(\frac{29770}{1323} \times 1 \times .02\right)/1 \times \frac{20 \times 2}{.0255} = 706$

α Ch $\left(\frac{43999}{2353} \times 1 \times .028\right)/1 \times \frac{20 \times 2}{.0255} = 821$

PERKIN-ELMER CLAS 2000 04/15/91 08:04:07

EXTERNAL STANDARD

SAMPLE: 0412H5A .23 INST:21 VIAL: 0 SEQ NUMBER:023
TEST : DATE-TIME COLLECTED : 04/13/91 04:31:08
COLLECTION TIME : 29.88 DATE-TIME PROCESSED : 04/13/91 05:02:03
METHOD: CLPA / CLPA REV #: 00015 ANALYST: CELESTE SAMP RATE: 1.56

SAMPLE WT : 1.0000 STANDARD WT : 1.0000 DILUTION FACTOR : 1.0000

PK NO	RT MINUTES	PEAK HEIGHT	COMPONENT NAME
001	3.998	565	
002	5.344	131	
003	5.916	172	
004	9.131	67	
005	10.955	98	-DDE X
006	13.410	145	-ENDO II
007	14.960	299	
008	17.589	2049	
009	19.392	350	
010	20.704	211	
011	22.589	2653	— DBC
012	23.883	194	
013	27.320	1058	
		7992	

90901

X102

1.0ml of 20ml

½ ext

DDE

$$\left(\frac{98}{984} \times 1 \times .02\right)\Big/1 \times \frac{20 \times 2}{.02453} = 3.6 \text{ (J)}$$

PERKIN-ELMER CLAS 2000 04/15/91 08:04:07

EXTERNAL STANDARD

SAMPLE: 0412H5A .24 INST:21 VIAL: 0 SEQ NUMBER:024
TEST : DATE-TIME COLLECTED : 04/13/91 05:05:51
COLLECTION TIME : 29.88 DATE-TIME PROCESSED : 04/13/91 05:36:29
METHOD: CLPA / CLPA REV #: 00015 ANALYST: CELESTE SAMP RATE: 1.56

SAMPLE WT : 1.0000 STANDARD WT : 1.0000 DILUTION FACTOR : 1.0000

PK NO	RT MINUTES	PEAK HEIGHT	COMPONENT NAME
001	1.448	302	
002	1.721	420	
003	3.233	2000	γ-BHC
004	4.892	1657	Heptachlor
005	6.014	1154	Aldrin
006	7.561	1198	Hept. Epox
007	8.331	318	
008	9.423	1336	Endosulfan I
009	11.046	1000	Dieldrin
010	13.192	1939	Endosulfan II
011	14.424	2539	Endrin Aldehyde
012	16.270	2257	DDT
013	17.579	5325	
014	19.854	6929	Methoxychlor
015	22.582	3792	DBC
		32106	

IND A

1.0 ml

PERKIN-ELMER CLAS 2000 04/15/91 08:04:07

EXTERNAL STANDARD

SAMPLE: 0412H5A .25 INST:21 VIAL: 0 SEQ NUMBER:025
TEST : DATE-TIME COLLECTED : 04/13/91 05:40:35
COLLECTION TIME : 29.88 DATE-TIME PROCESSED : 04/13/91 06:11:22
METHOD: CLPA / CLPA REV #: 00015 ANALYST: CELESTE SAMP RATE: 1.56

SAMPLE WT : 1.0000 STANDARD WT : 1.0000 DILUTION FACTOR : 1.0000

PK NO	RT MINUTES	PEAK HEIGHT	COMPONENT NAME
001	1.381	1843	
002	1.723	435	
003	3.075	1036	-β
004	3.990	544	
005	4.313	399	
006	5.333	167	
007	5.910	930	
008	7.403	880	
009	8.763	480	-8 chl.
010	9.888	190	-~~8 chl.~~
011	10.965	832	-DDE 4
012	13.349	377	-Endo II 4
013	14.933	913	
014	16.160	2204	
015	16.981	534	
016	17.547	935	
017	19.381	682	
018	19.861	614	-Meth 4
019	20.708	992	
020	22.604	1748	— DBC
021	23.904	493	
022	27.291	2820	
023	28.247	1081	
		21129	

X103

90902

1.0 ml of 20 ml

$\frac{1}{2}$ ext

DDE $\left(\frac{832}{884} \times 1 \times .02\right)/1 \times \frac{20 \times 2}{.0235} = 32$

Endo II $\left(\frac{377}{1913} \times 1 \times .04\right)/1 \times \frac{20 \times 2}{.0235} = 13.4$

Meth $\left(\frac{614}{6801} \times 1 \times .2\right)/1 \times \frac{40}{.0235} = 31$

PERKIN-ELMER CLAS 2000 04/15/91 08:04:07

EXTERNAL STANDARD

SAMPLE: 0412H5A .26 INST:21 VIAL: 0 SEQ NUMBER:026
TEST : DATE-TIME COLLECTED : 04/13/91 06:15:03
COLLECTION TIME : 29.88 DATE-TIME PROCESSED : 04/13/91 06:45:30
METHOD: CLPA / CLPA REV #: 00015 ANALYST: CELESTE SAMP RATE: 1.56

SAMPLE WT : 1.0000 STANDARD WT : 1.0000 DILUTION FACTOR : 1.0000

PK NO	RT MINUTES	PEAK HEIGHT	COMPONENT NAME
001	7.040	1168	
002	17.685	14028	
		15196	

FALSE INJECTION

PERKIN-ELMER CLAS 2000 04/15/91 08:04:07

EXTERNAL STANDARD

SAMPLE: 0412H5A .27 INST:21 VIAL: 0 SEQ NUMBER:027
TEST : DATE-TIME COLLECTED : 04/13/91 09:47:19
COLLECTION TIME : 29.88 DATE-TIME PROCESSED : 04/13/91 10:17:57
METHOD: CLPA / CLPA REV #: 00015 ANALYST: CELESTE SAMP RATE: 1.56

SAMPLE WT : 1.0000 STANDARD WT : 1.0000 DILUTION FACTOR : 1.0000

PK NO	RT MINUTES	PEAK HEIGHT	COMPONENT NAME
001	1.403	441	
002	3.087	342	-β
003	4.012	467	
004	4.404	1203	
005	4.914	3290	-Hept.
006	5.349	731	
007	5.957	1090	
008	6.508	790	
009	7.186	1895	
010	7.593	16759	-Hept Epox
011	8.760	17831	-γ Chl.
012	9.657	11012	-α Chl. — ck GC/MS
013	9.914	11227	
014	10.996	1582	-Dield.
015	12.395	318	
016	13.227	336	-Endo II
017	14.229	3707	
018	14.693	3000	
019	16.260	2789	-DDT
020	17.653	753	
021	19.845	533	-meth
022	22.641	2403	— DBC
023	27.264	90	
024	28.683	146	
		82735	

90903

1.0ml of 20ml

N04

½ ext

Hept $\left(\frac{3290}{908} \times 1 \times .01\right)/1 \times \frac{20 \times 2}{.0262} = 55$

HC $\left(\frac{16759}{908} \times 1 \times .01\right)/1 \times \frac{20 \times 2}{} = 280$

γ Ch $\left(\frac{17831}{1323} \times 1 \times .02\right)/1 \times \frac{20 \times 2}{} = 410$

α Chl. $\left(\frac{11012}{2353} \times 1 \times .028\right)/1 \times \frac{20 \times 2}{} = 200$

PERKIN-ELMER CLAS 2000 04/21/91 21:32:17
PROCESSED BY GRAPHICAL ANALYSIS
EXTERNAL STANDARD

SAMPLE: 0412H5A .28 INST:21 VIAL: 0 SEQ NUMBER:028
TEST : DATE-TIME COLLECTED : 04/13/91 10:22:12
COLLECTION TIME : 29.88 DATE-TIME PROCESSED : 4/21/91 21:15:58
METHOD: CLPA / CLPA REV #: 00015 ANALYST: CELESTE SAMP RATE: 1.56

SAMPLE WT : 1.0000 STANDARD WT : 1.0000 DILUTION FACTOR : 1.0000

PK NO	RT MINUTES	PEAK HEIGHT	COMPONENT NAME
001	1.277	2060	
002	1.747	1053	
003	2.133	2435	
004	2.907	2140	
005	3.083	1105	-β
006	3.392	774	
007	3.755	580	
008	4.383	2650	
009	4.672	399	
010	5.362	7357	
011	6.080	5448	-ALDRIN NO
012	6.544	2758	
013	6.896	342	
014	7.907	14,136	-1254
015	9.138	14,444	-1254
016	11.079	15925	-DIELDRIN NO
017	11.512	17296	-1254
018	12.512	3743	-ENDRIN (1260)
019	13.408	19252	-ENDO II 1254
020	14.101	1181	
021	15.016	19962	-1254
022	15.723	3811	-ENDO S. NO
023	16.523	23457	
024	17.500	5063	
025	17.992	5806	
026	18.832	2910	(1260)
027	19.467	4140	
028	20.752	8902	-for 1260
029	22.581	683	-DDE use this
030	22.624	791	
031	23.099	3578	
032	24.427	1616	
033	27.323	3789	
034	28.277	1164	

200750

90904 X106

1 of 20 ml

1/2 ml

β. $\left(\frac{1105}{2341} \times 1 \times .01\right) \Big/ 1 \times \frac{20 \times 2}{.0193} = 9.78$

ble larger in proph. to 12512 blank 12

END. $\left(\frac{3743}{788} \times 1 \times .02\right) \Big/ 1 \times \frac{40}{.0193} = 197$

Endosulfan II

$\left(\frac{19252}{1913} \times 1 \times .04\right) \times \frac{20 \times 2}{.0193} = 834$

for ppbs of 1254 reasonably free of 1260 std.

7.907	14,136	7.888	1955	$\left(\frac{28580}{4258} \times .5\right) \Big/ \frac{40}{.0193} = 6955$ ug/kg
9.138	14,444	9.106	2303	
	28580		4258	

Dual from 1254 + 1260 for 1260

12.512	3743	12.507	810	$\left(\frac{2335}{6653} \times .5\right) \Big/ \frac{40}{.0193} = 364$ ug/kg
18.832	2910	18.811	1525	
	6653		2335	

PERKIN-ELMER CLAS 2000 04/21/91 21:59:28
PROCESSED BY GRAPHICAL ANALYSIS
EXTERNAL STANDARD

SAMPLE: 0412H5A .29 INST:21 VIAL: 0 SEQ NUMBER:029
TEST : DATE-TIME COLLECTED : 04/13/91 10:57:02
COLLECTION TIME : 29.88 DATE-TIME PROCESSED : 4/21/91 21:42:57
METHOD: CLPA / CLPA REV #: 00015 ANALYST: CELESTE SAMP RATE: 1.56

SAMPLE WT : 1.0000 STANDARD WT : 1.0000 DILUTION FACTOR : 1.0000

PK NO	RT MINUTES	PEAK HEIGHT	COMPONENT NAME
001	1.275	16530	
002	1.743	28432	
003	2.016	3531	
004	2.136	5967	
005	2.397	2413	
006	2.705	5426	✓BHC ✓
007	2.919	74405	
008	3.389	9870	
009	3.760	7156	
010	4.147	3262	
011	4.380	22839	
012	4.671	3578	
013	4.883	2753	
014	5.363	30923	
015	6.089	22187	
016	6.543	14460	
017	6.899	2490	
018	7.903	56046	fn 1254
019	9.138	47945	
020	10.828	8903	
021	11.529	48858	
022	12.693	16574	-ENDRIN
023	13.407	59802	
024	14.084	5883	-DDD
025	15.006	58083	
026	15.739	13859	-ENDO. S.
027	16.526	70531	
028	17.035	12881	
029	17.575	31422	
030	17.952	27117	
031	18.818	11083	← fn 1260 - v. small in 1254
032	19.467	14171	
033	20.754	31642	← fn 1260 v. small in 1254
034	22.080	386	
035	22.773	2227	✓DBC
036	23.112	11380	
037	23.787	3247	
038	24.395	5286	
039	27.293	10135	
040	28.263	2105	
041	29.216	1542	

X107

90905
1 ml of 20 ml
1/2 ml

Endrin

$\left(\frac{16574}{2433} \times 1 \times .05\right) / 1 \times \frac{20 \times 2}{.0107} = 1273$

$1273 \times .766 = 975$

from proportions of PK ratio
pk at 12.693 not in 1254
v. small but present in 1260

fn 1254

$\frac{103999}{4258} \times .5 \times \frac{40}{.0107} = 45,653$

fn 1260

$\frac{42725}{5595} \times .5 \times \frac{40}{.0107} = 14,273$

PERKIN-ELMER CLAS 2000 04/21/91 21:32:48
PROCESSED BY GRAPHICAL ANALYSIS
EXTERNAL STANDARD

SAMPLE: 0412H5A .30 INST:21 VIAL: 0 SEQ NUMBER:030
TEST : DATE-TIME COLLECTED : 04/13/91 11:31:51
COLLECTION TIME : 29.88 DATE-TIME PROCESSED : 4/21/91 21:20:12
METHOD: CLPA / CLPA REV #: 00015 ANALYST: CELESTE SAMP RATE: 1.56

SAMPLE WT : 1.0000 STANDARD WT : 1.0000 DILUTION FACTOR : 1.0000

PK NO	RT MINUTES	PEAK HEIGHT	COMPONENT NAME
001	1.322	728	
002	1.755	2439	
003	2.130	4790	
004	2.234	6424	
005	2.592	1139	
006	2.899	4622	
007	3.075	1875	-β
008	3.957	537	
009	4.373	643	
010	5.909	709	
011	7.419	2110	
012	7.883	1586	
013	9.611	842	
014	11.557	391	
015	12.708	3712	-ENDRIN
016	14.672	1226	
017	17.644	41392	
018	22.517	7296	DBC
019	22.677	8909	DBC
020	23.115	10297	
021	27.275	264	
		101931	

X108

90906

1 of 20 l

1/2 ext

Nothing conf.

PERKIN-ELMER CLAS 2000 04/15/91 08:04:07

EXTERNAL STANDARD

SAMPLE: 0412H5A .31 INST:21 VIAL: 0 SEQ NUMBER:031
TEST : DATE-TIME COLLECTED : 04/13/91 12:06:42
COLLECTION TIME : 29.88 DATE-TIME PROCESSED : 04/13/91 12:37:08
METHOD: CLPA / CLPA REV #: 00015 ANALYST: CELESTE SAMP RATE: 1.56

SAMPLE WT : 1.0000 STANDARD WT : 1.0000 DILUTION FACTOR : 1.0000

PK NO	RT MINUTES	PEAK HEIGHT	COMPONENT NAME
001	6.028	862	Aldrin
002	10.464	83	
003	12.618	1102	Endrin
004	16.291	2467	DDT
005	17.568	981	
006	23.029	18916	DBC ?
		24411	

NOT DDE

EVAL B

1.0 ml

PERKIN-ELMER CLAS 2000 04/15/91 08:04:07

EXTERNAL STANDARD

SAMPLE: 0412H5A .32 INST:21 VIAL: 0 SEQ NUMBER:032
TEST : DATE-TIME COLLECTED : 04/13/91 12:41:35
COLLECTION TIME : 29.88 DATE-TIME PROCESSED : 04/13/91 13:12:14
METHOD: CLPA / CLPA REV #: 00015 ANALYST: CELESTE SAMP RATE: 1.56

SAMPLE WT : 1.0000 STANDARD WT : 1.0000 DILUTION FACTOR : 1.0000

PK NO	RT MINUTES	PEAK HEIGHT	COMPONENT NAME
001	1.277	850	
002	1.741	1003	
003	2.131	1929	
004	2.392	783	
005	2.918	5306	
006	3.077	1536	-β ND
007	4.001	439	
008	4.343	576	
009	5.354	745	
010	5.924	1730	
011	7.419	1002	
012	7.909	1285	
013	9.125	1012	
014	11.515	1104	
015	12.715	729	-ENDRIN ND
016	13.387	1144	
017	14.993	1335	
018	16.180	2367	
019	16.962	1092	
020	17.600	1072	
021	19.910	613	
022	20.725	704	
023	22.635	1846	~~DBC~~
024	23.156	2042	
025	27.307	714	
026	28.379	143	
		33101	

90907 X109

1.0ml of 20ml

½ ext

ND

PERKIN-ELMER CLAS 2000 04/15/91 08:04:07

EXTERNAL STANDARD

SAMPLE: 0412H5A .33 INST:21 VIAL: 0 SEQ NUMBER:033
TEST : DATE-TIME COLLECTED : 04/13/91 13:16:26
COLLECTION TIME : 29.88 DATE-TIME PROCESSED : 04/13/91 13:46:53
METHOD: CLPA / CLPA REV #: 00015 ANALYST: CELESTE SAMP RATE: 1.56

SAMPLE WT : 1.0000 STANDARD WT : 1.0000 DILUTION FACTOR : 1.0000

PK NO	RT MINUTES	PEAK HEIGHT	COMPONENT NAME
001	3.077	512	-B
002	4.000	411	-B
003	5.918	705	
004	7.413	614	
005	8.762	270	
006	10.992	330	-DDE
007	16.192	663	-DDT
008	17.607	3403	
009	19.403	344	
010	22.616	2297	DBC
011	27.312	135	
		9684	

90908 X110

1.0ml of 20ml

$\frac{1}{2}$ ext

DDE

$\left(\frac{330}{884} \times 1 \times .02\right) / 1 \times \frac{20 \times 2}{.0225} = 13.3$

PERKIN-ELMER CLAS 2000 04/21/91 21:33:05
PROCESSED BY GRAPHICAL ANALYSIS
EXTERNAL STANDARD

SAMPLE: 0412H5A .34 INST:21 VIAL: 0 SEQ NUMBER:034
TEST : DATE-TIME COLLECTED : 04/13/91 13:51:15
COLLECTION TIME : 29.88 DATE-TIME PROCESSED : 4/21/91 21:26:42
METHOD: CLPA / CLPA REV #: 00015 ANALYST: CELESTE SAMP RATE: 1.56

SAMPLE WT : 1.0000 STANDARD WT : 1.0000 DILUTION FACTOR : 1.0000

PK NO	RT MINUTES	PEAK HEIGHT	COMPONENT NAME
001	1.275	730	
002	1.736	915	
003	2.130	1728	
004	2.904	1104	
005	3.077	774	-β-0
006	3.744	380	
007	4.005	458	
008	4.377	2219	
009	4.672	494	
010	5.013	340	
011	5.353	4306	-1254
012	6.091	3386	
013	6.533	2606	
014	6.891	373	
015	7.895	7933	-1254
1259 016	9.123	6853	-1259
017	10.859	2447	-DDE
018	11.504	7821	
260 019	12.544	1643	-Endrin
020	13.389	7679	-Endo II
021	14.027	834	-DDD no
022	14.992	8209	
023	15.723	1540	-Endo S.
024	16.513	9179	
025	17.493	2715	
1260 026	17.968	2394	
1260 027	18.837	1025	
028	19.451	1532	
029	20.729	3581	
030	22.613	2200	✓ DBC
031	23.056	2802	
032	27.253	1329	
033	28.224	198	
034	29.141	288	
		92015	

90909
1 of 20
2 left

VIII

DDE $\left(\frac{2447}{884} \times 1 \times .02\right) / 1 \times \frac{20 \times 2}{.0155} = 143$

Endrin $\left(\frac{1643}{2443} \times 1 \times .05\right) / 1 \times \frac{20 \times 2}{} = 87$

Endo II $\left(\frac{7679}{1913} \times 1 \times .04\right) / 1 \times \frac{20 \times 2}{} = 414$

1254 - [illegible] 1260
$\left(\frac{14786}{4258} \times 1 \times .5\right) / 1 \times \frac{40}{.0155} = 4486$

1260 - [illegible] 1254
~~3419~~ 17.498 2715
18.837 1025
$\left(\frac{3740}{5595} \times .5\right) / \frac{40}{.055} = 862$

PERKIN-ELMER CLAS 2000 04/15/91 08:04:07

EXTERNAL STANDARD

SAMPLE: 0412H5A .35 INST:21 VIAL: 0 SEQ NUMBER:035
TEST : DATE-TIME COLLECTED : 04/13/91 14:26:01
COLLECTION TIME : 29.88 DATE-TIME PROCESSED : 04/13/91 14:56:27
METHOD: CLPA / CLPA REV #: 00015 ANALYST: CELESTE SAMP RATE: 1.56

SAMPLE WT : 1.0000 STANDARD WT : 1.0000 DILUTION FACTOR : 1.0000

PK NO	RT MINUTES	PEAK HEIGHT	COMPONENT NAME
001	3.999	445	
002	5.333	166	
003	7.861	274	
004	11.504	100	
005	17.644	6216	
006	22.625	2661	— DBC
		9862	

90910 X112

1.0ml of 20ml

½ ext

ND

30.34
dry 24.89

PERKIN-ELMER CLAS 2000 04/15/91 08:04:07

EXTERNAL STANDARD

SAMPLE: 0412H5A .36 INST:21 VIAL: 0 SEQ NUMBER:036
TEST : DATE-TIME COLLECTED : 04/13/91 15:00:52
COLLECTION TIME : 29.88 DATE-TIME PROCESSED : 04/13/91 15:31:30
METHOD: CLPA / CLPA REV #: 00015 ANALYST: CELESTE SAMP RATE: 1.56

SAMPLE WT : 1.0000 STANDARD WT : 1.0000 DILUTION FACTOR : 1.0000

PK NO	RT MINUTES	PEAK HEIGHT	COMPONENT NAME
001	3.999	450	
002	5.941	146	
003	7.456	134	
004	8.768	174	
005	9.879	156	
006	17.589	358	
007	20.011	145	-meth
008	22.647	4001	DBC
		5564	

90911

1.0ml of 20ml

X1/3

meth $\frac{1}{2}$ ext

$$\left(\frac{145}{6801} \times 1 \times .2\right) / 1 \times \frac{20 \times 2}{.0209} = 8.2$$

30.66g

31.79%

PERKIN-ELMER CLAS 2000 04/15/91 08:04:07

EXTERNAL STANDARD

SAMPLE: 0412H5A .37 INST:21 VIAL: 0 SEQ NUMBER:037
TEST : DATE-TIME COLLECTED : 04/13/91 15:35:41
COLLECTION TIME : 29.88 DATE-TIME PROCESSED : 04/13/91 16:06:08
METHOD: CLPA / CLPA REV #: 00015 ANALYST: CELESTE SAMP RATE: 1.56

SAMPLE WT : 1.0000 STANDARD WT : 1.0000 DILUTION FACTOR : 1.0000

PK NO	RT MINUTES	PEAK HEIGHT	COMPONENT NAME
001	2.724	1661	α-BHC
002	3.077	2273	β-BHC
003	3.612	2527	δ-BHC
004	6.021	1528	Aldrin
005	8.736	1240	γ-Chlordane
006	9.600	2229	α-chlordane
007	10.969	829	DDE
008	12.601	723	Endrin
009	13.994	1086	DDD
010	15.883	1885	Endosulfan Sulfate
011	18.367	2039	Endrin Ketone
012	22.612	2910	DBC
		20930	

IND B

1.0 ml

PERKIN-ELMER CLAS 2000 04/15/91 08:04:07

EXTERNAL STANDARD

SAMPLE: 0412H5A .38 INST:21 VIAL: 0 SEQ NUMBER:038
TEST : DATE-TIME COLLECTED : 04/13/91 16:10:32
COLLECTION TIME : 29.88 DATE-TIME PROCESSED : 04/13/91 16:41:19
METHOD: CLPA / CLPA REV #: 00015 ANALYST: CELESTE SAMP RATE: 1.56

SAMPLE WT : 1.0000 STANDARD WT : 1.0000 DILUTION FACTOR : 1.0000

PK NO	RT MINUTES	PEAK HEIGHT	COMPONENT NAME
001	1.386	1141	
002	4.001	832	
003	7.904	60	
004	19.541	390	
005	22.613	2235	DBC
		4658	

ND

90912 X 114

1.0ml of 20ml

½ ext

30.44g

35.3%

PERKIN-ELMER CLAS 2000 04/15/91 08:04:07

EXTERNAL STANDARD

SAMPLE: 0412H5A .39 INST:21 VIAL: 0 SEQ NUMBER:039
TEST : DATE-TIME COLLECTED : 04/13/91 16:45:18
COLLECTION TIME : 29.88 DATE-TIME PROCESSED : 04/13/91 17:15:56
METHOD: CLPA / CLPA REV #: 00015 ANALYST: CELESTE SAMP RATE: 1.56
BBL BFL BHL BJL

SAMPLE WT : 1.0000 STANDARD WT : 1.0000 DILUTION FACTOR : 1.0000

PK NO	RT MINUTES	PEAK HEIGHT	COMPONENT NAME
001	1.387	1268	
002	3.296	5509	?
003	4.000	526	
004	4.898	4678	Heptachlor
005	6.020	2455	Aldrin
006	7.925	67	
007	11.061	4325	Dieldrin
008	12.595	4070	Endrin
009	16.280	4521	DDT
010	18.357	297	
011	22.612	2337	DBC
		30053	

90997MS X114MS

1.0ml of 20ml

½ ext

? $\left(5509/1973 \times 5 \times .01\right)/1 \times \frac{20 \times 2}{.0198} = 1.117\,\mu g$

1.6 add

35.3%

PERKIN-ELMER CLAS 2000 04/15/91 08:04:07

EXTERNAL STANDARD

SAMPLE: 0412H5A .40 INST:21 VIAL: 0 SEQ NUMBER:040
TEST : DATE-TIME COLLECTED : 04/13/91 17:20:04
COLLECTION TIME : 29.88 DATE-TIME PROCESSED : 04/13/91 17:50:30
METHOD: CLPA / CLPA REV #: 00015 ANALYST: CELESTE SAMP RATE: 1.56

SAMPLE WT : 1.0000 STANDARD WT : 1.0000 DILUTION FACTOR : 1.0000

PK NO	RT MINUTES	PEAK HEIGHT	COMPONENT NAME
001	1.392	1255	
002	3.237	6511	?BHC
003	4.001	575	
004	4.899	5150	Heptachlor
005	6.020	2743	Aldrin
006	11.064	4591	Dieldrin
007	12.597	4367	Endrin
008	16.280	4743	DDT
009	18.357	384	
010	22.613	2743	DBC
		33062	

90997MSD

X114MSD

1.0ml of 20ml

½ ext

35.3%

PERKIN-ELMER CLAS 2000 04/15/91 08:04:07

EXTERNAL STANDARD

SAMPLE: 0412H5A .41 INST:21 VIAL: 0 SEQ NUMBER:041
TEST : DATE-TIME COLLECTED : 04/14/91 19:24:17
COLLECTION TIME : 29.88 DATE-TIME PROCESSED : 04/14/91 19:54:56
METHOD: CLPA / CLPA REV #: 00015 ANALYST: CELESTE SAMP RATE: 1.56

SAMPLE WT : 1.0000 STANDARD WT : 1.0000 DILUTION FACTOR : 1.0000

PK NO	RT MINUTES	PEAK HEIGHT	COMPONENT NAME
001	1.389	858	
002	2.143	10682	
003	3.998	672	
004	4.370	219	
005	7.520	625	
006	10.304	195	
007	11.008	125	—Dieldrin
008	16.144	888	—DDT
009	22.590	2403	—DBC
		16667	

9099PBLK51
1.0ml of 20ml
½ ext

not conf.

30.24g

0.0%

PERKIN-ELMER CLAS 2000 04/21/91 21:33:19
PROCESSED BY GRAPHICAL ANALYSIS
EXTERNAL STANDARD

SAMPLE: 0412H5A .42 INST:21 VIAL: 0 SEQ NUMBER:042
TEST : DATE-TIME COLLECTED : 04/14/91 19:59:53
COLLECTION TIME : 29.88 DATE-TIME PROCESSED : 4/21/91 21:29:57
METHOD: CLPA / CLPA REV #: 00015 ANALYST: CELESTE SAMP RATE: 1.56

SAMPLE WT : 1.0000 STANDARD WT : 1.0000 DILUTION FACTOR : 1.0000

PK NO	RT MINUTES	PEAK HEIGHT	COMPONENT NAME
001	1.274	2041	
002	1.739	2806	
003	2.133	682	
004	2.694	714	
005	2.910	9363	
006	3.379	1538	
007	3.744	950	
008	4.364	3065	
009	4.651	516	
010	5.344	5175	not in 1260, from 54
011	6.067	3297	"
012	6.517	1803	"
013	6.891	227	
014	7.868	8725	1254
015	9.092	7883	
016	10.464	1246	
017	11.475	7364	in 1254
018	12.608	2298	- not in 1254
019	13.360	9316	1254
020	14.037	712	
021	14.951	9118	
022	15.687	1852	
023	16.485	10332	
024	17.472	2868	not in 1254
025	17.941	2359	
026	18.784	1423	1260
027	19.403	1846	
028	20.704	4358	-1260
029	22.752	454	DBC
030	23.013	1488	
031	24.299	765	
032	27.211	1315	
033	28.149	282	
		108181	

90905 1:10 of 20
1 of 1/2 ext
90905? cmc

~~X110~~ D
X107 Dut
w/pks used in not dil ext

for 1254
$\left(\frac{16608}{4258} \times .5\right) \times \frac{40 \times 10}{.0107} = 72905$

for 1260
$\left(\frac{5781}{5595} \times .5\right) \times \frac{40 \times 10}{.0107} = 19,313$

PERKIN-ELMER CLAS 2000 04/15/91 08:04:07

EXTERNAL STANDARD

SAMPLE: 0412H5A .43 INST:21 VIAL: 0 SEQ NUMBER:043
TEST : DATE-TIME COLLECTED : 04/14/91 20:34:42
COLLECTION TIME : 29.88 DATE-TIME PROCESSED : 04/14/91 21:05:29
METHOD: CLPA / CLPA REV #: 00015 ANALYST: CELESTE SAMP RATE: 1.56

SAMPLE WT : 1.0000 STANDARD WT : 1.0000 DILUTION FACTOR : 1.0000

PK NO	RT MINUTES	PEAK HEIGHT	COMPONENT NAME
001	5.995	1176	Aldrin
002	12.537	1181	Endrin
003	16.236	2367	DDT
004	17.504	5526	
005	22.541	2377	DBC
		12627	

EVAL B

1.0ml

PERKIN-ELMER CLAS 2000 04/15/91 08:04:07

EXTERNAL STANDARD

SAMPLE: 0412H5A .44 INST:21 VIAL: 0 SEQ NUMBER:044
TEST : DATE-TIME COLLECTED : 04/14/91 21:09:32
COLLECTION TIME : 29.88 DATE-TIME PROCESSED : 04/14/91 21:40:00
METHOD: CLPA / CLPA REV #: 00015 ANALYST: CELESTE SAMP RATE: 1.56

SAMPLE WT : 1.0000 STANDARD WT : 1.0000 DILUTION FACTOR : 1.0000

PK NO	RT MINUTES	PEAK HEIGHT	COMPONENT NAME
001	1.306	870	
002	1.746	2609	
003	2.111	5248	
004	2.214	7138	
005	2.576	1403	
006	2.874	5370	
007	3.048	2126	
008	3.573	455	
009	3.933	758	
010	4.336	864	
011	4.860	323	
012	5.262	596	
013	5.846	1237	
014	7.359	1779	
015	7.831	1316	
016	9.525	1144	
017	11.456	505	
018	12.592	4583	
019	13.280	578	
020	14.591	1298	
021	16.069	1572	
022	16.832	1747	
023	17.416	893	
024	19.823	631	
025	20.619	464	
026	22.521	4106	DBC
027	27.124	397	
		50010	

90906

1.0 ml of 20 ml

½ ext

X108 DIL

PERKIN-ELMER CLAS 2000 04/15/91 08:04:07

EXTERNAL STANDARD

SAMPLE: 0412H5A .45 INST:21 VIAL: 0 SEQ NUMBER:045
TEST : DATE-TIME COLLECTED : 04/14/91 21:44:23
COLLECTION TIME : 29.88 DATE-TIME PROCESSED : 04/14/91 22:15:02
METHOD: CLPA / CLPA REV #: 00015 ANALYST: CELESTE SAMP RATE: 1.56

SAMPLE WT : 1.0000 STANDARD WT : 1.0000 DILUTION FACTOR : 1.0000

PK NO	RT MINUTES	PEAK HEIGHT	COMPONENT NAME
001	1.436	247	
002	3.213	1982	— 8-BHC
003	4.861	1597	— Heptachlor
004	5.974	957	— Aldrin
005	7.508	877	— Hept. Epox
006	8.283	214	
007	9.355	1286	— Endo I
008	10.971	943	— Dieldrin
009	13.109	1842	— Endo II
010	14.357	2367	— Endrin Aldehyde
011	16.208	1834	— DDT
012	17.328	1240	
013	19.779	6683	— Methoxychlor
014	22.496	3804	— DBC
016	27.072	65	
		25938	

IND A
1.0 ml

PERKIN-ELMER CLAS 2000 04/15/91 08:04:07

EXTERNAL STANDARD

SAMPLE: 0412H5A .46 INST:21 VIAL: 0 SEQ NUMBER:046
TEST : DATE-TIME COLLECTED : 04/14/91 22:19:17
COLLECTION TIME : 29.88 DATE-TIME PROCESSED : 04/14/91 22:49:56
METHOD: CLPA / CLPA REV #: 00015 ANALYST: CELESTE SAMP RATE: 1.56

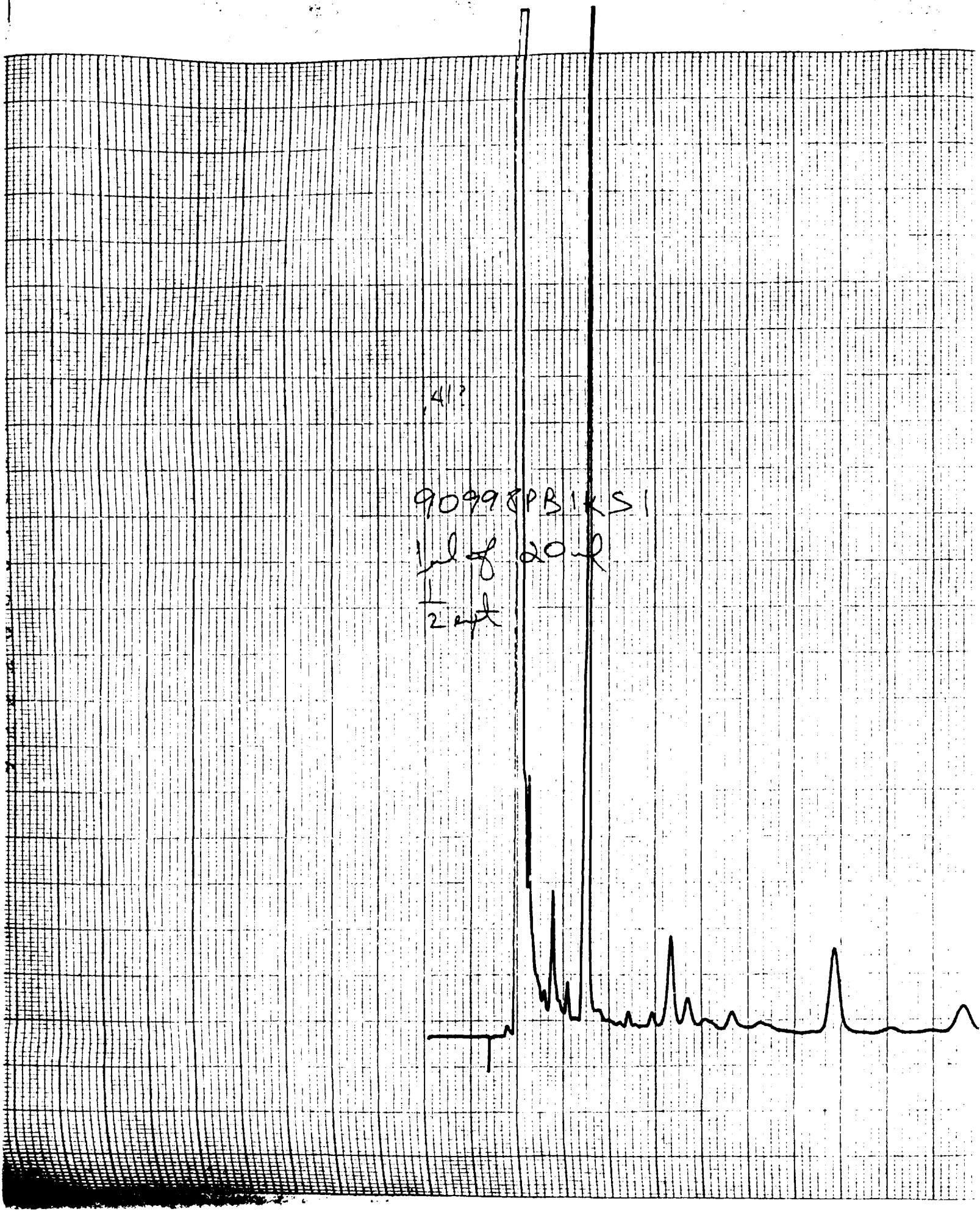
SAMPLE WT : 1.0000 STANDARD WT : 1.0000 DILUTION FACTOR : 1.0000

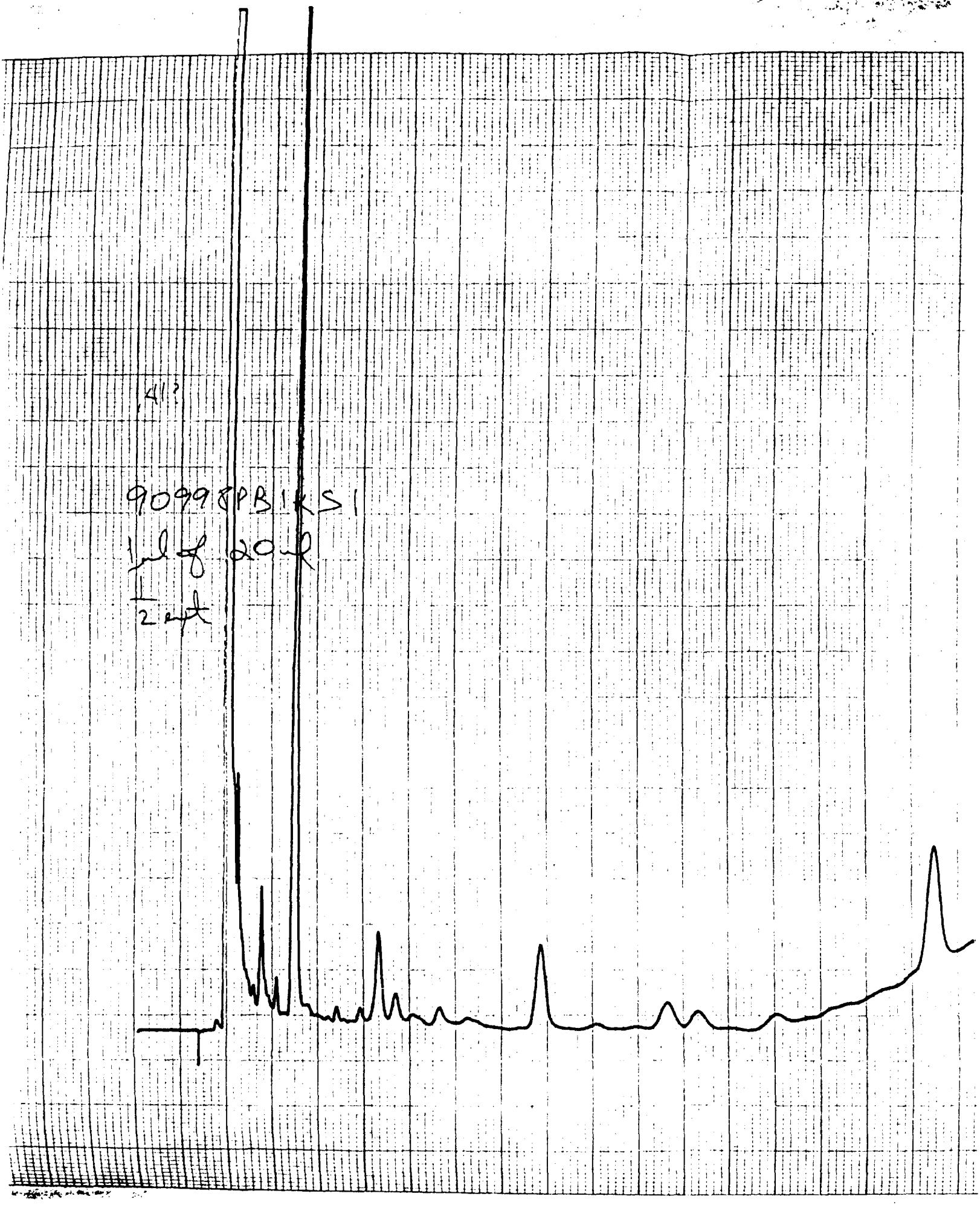
PK NO	RT MINUTES	PEAK HEIGHT	COMPONENT NAME
001	1.438	183	
002	2.708	1719	α-BHC
003	3.058	2406	β-BHC
004	3.589	2651	Δ-BHC
005	5.980	1615	Aldrin
006	8.672	1302	γ-Chlordane
007	9.533	2361	α-chlordane
008	10.892	884	DDE
009	12.525	773	Endrin
010	13.922	1121	DDD
011	15.822	1993	Endosulfan Sulfate
012	18.309	2250	Endrin Ketone
013	19.483	790	
014	22.528	3173	DBC
		23221	

IND B
1.0 ml

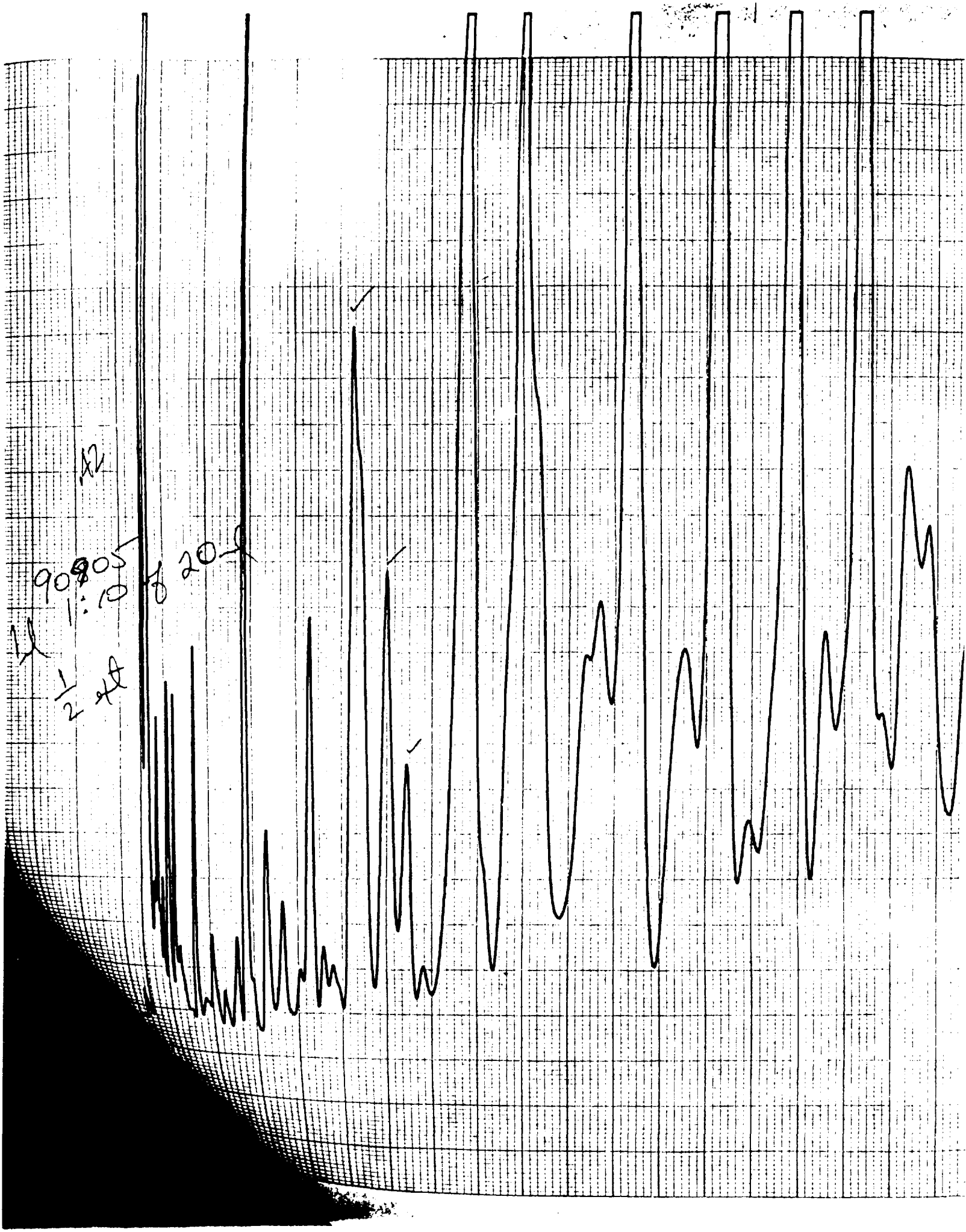
SEE REEL
FOR STRIP
CHART/OR
CHARTS

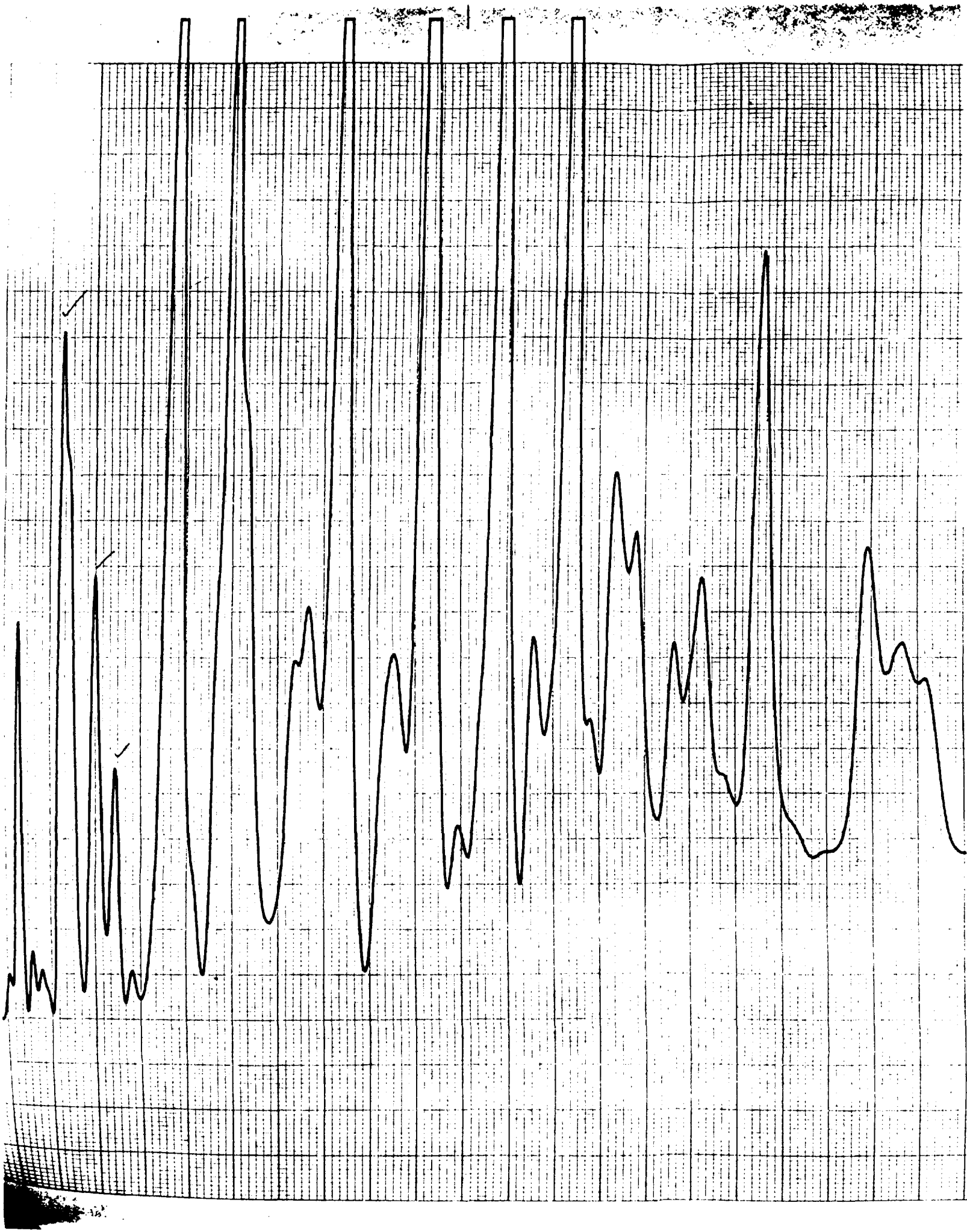
1 STRIP CHART

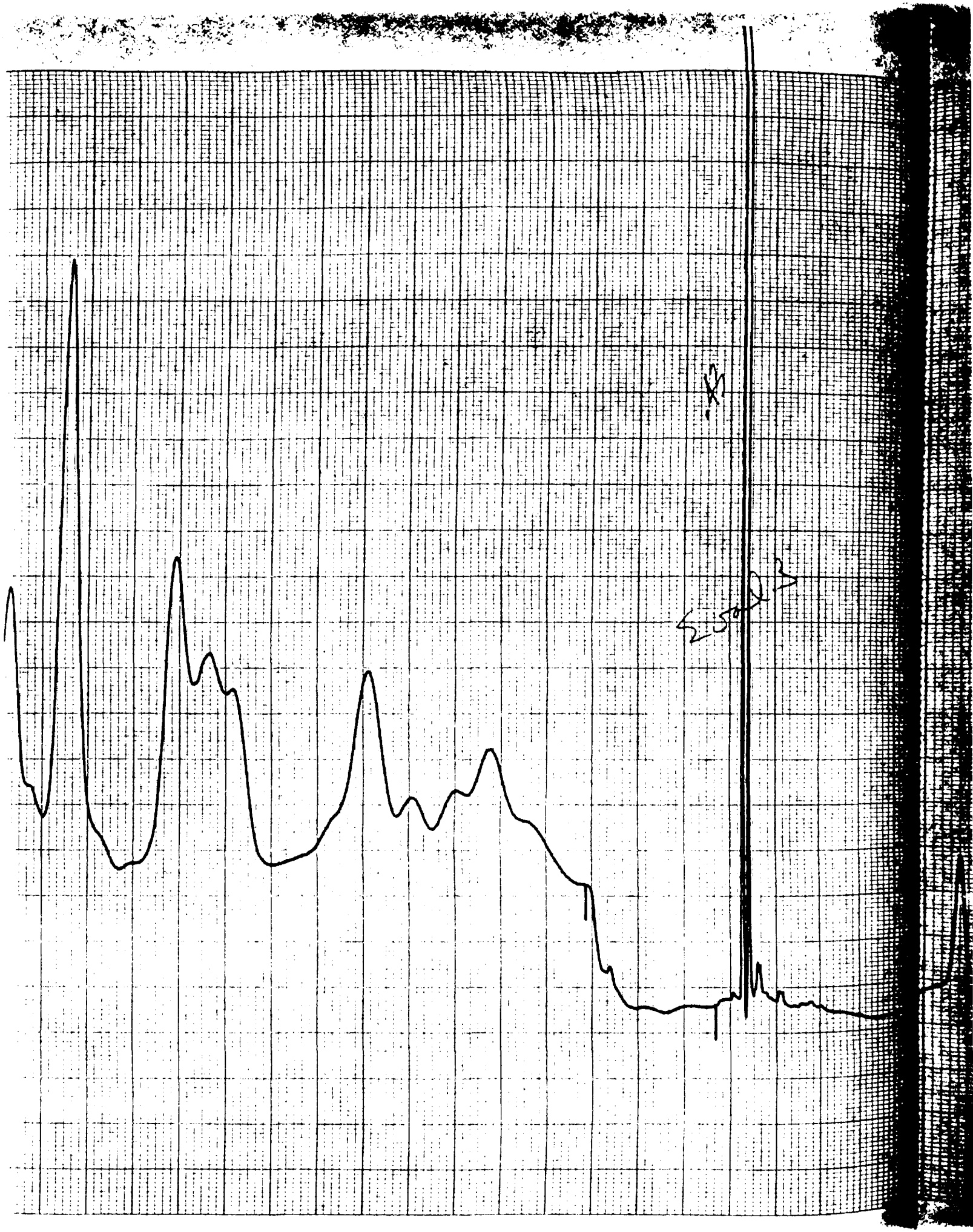

.41?
90998PB1KS1
1 ml of 20 ml
1/2 expt

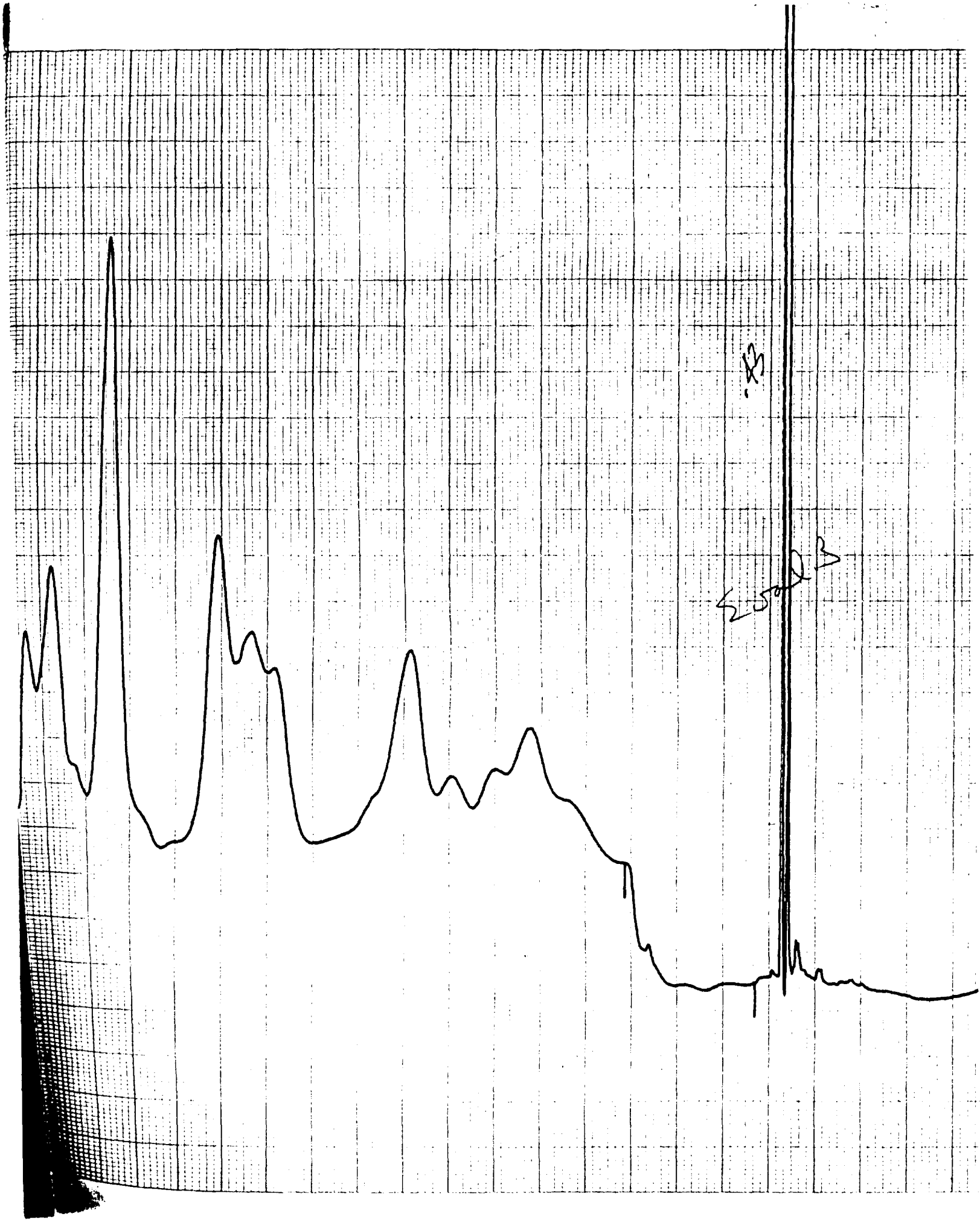


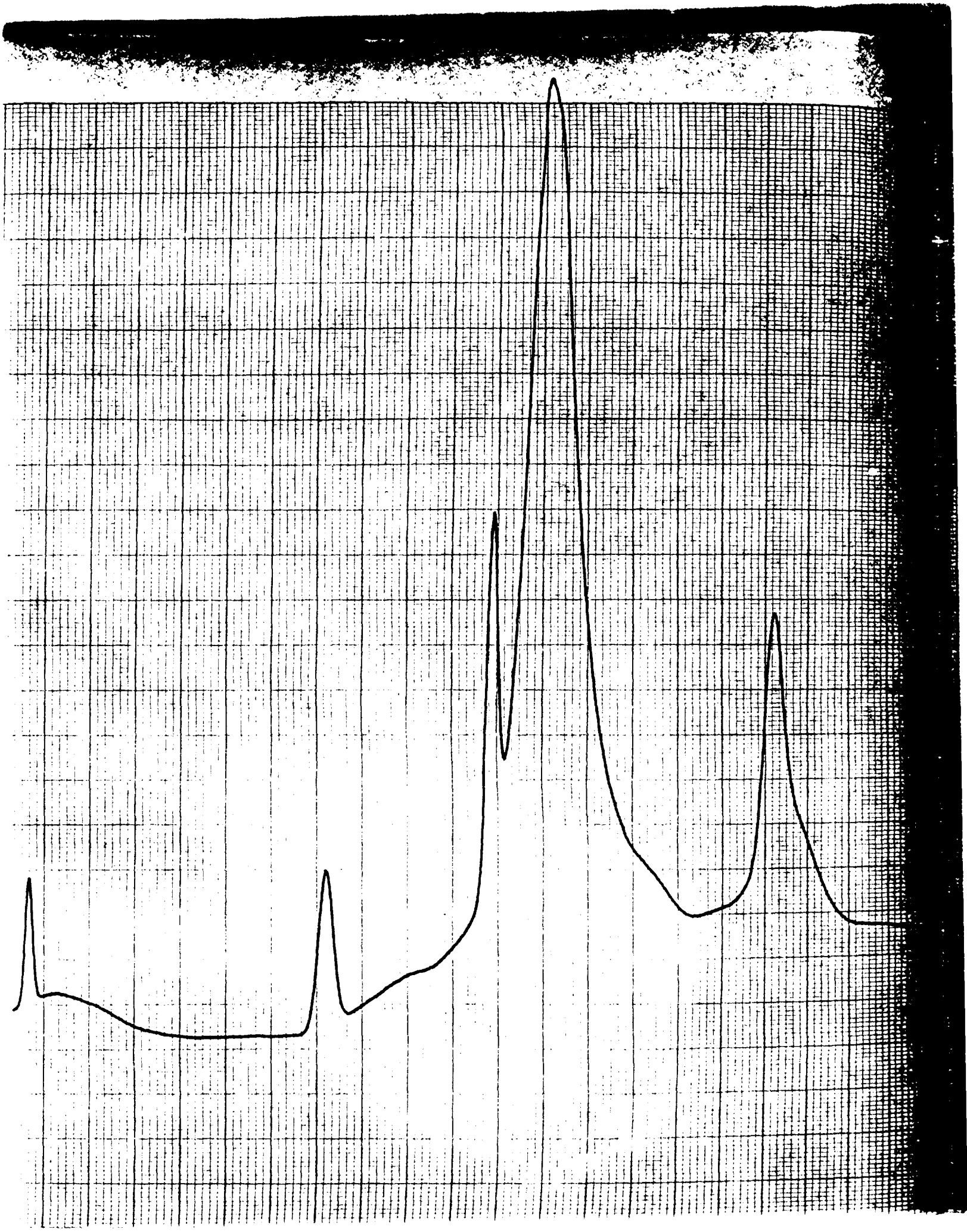
41?
90998PB1KS1
1 ml of 20 ml
1/2 expt

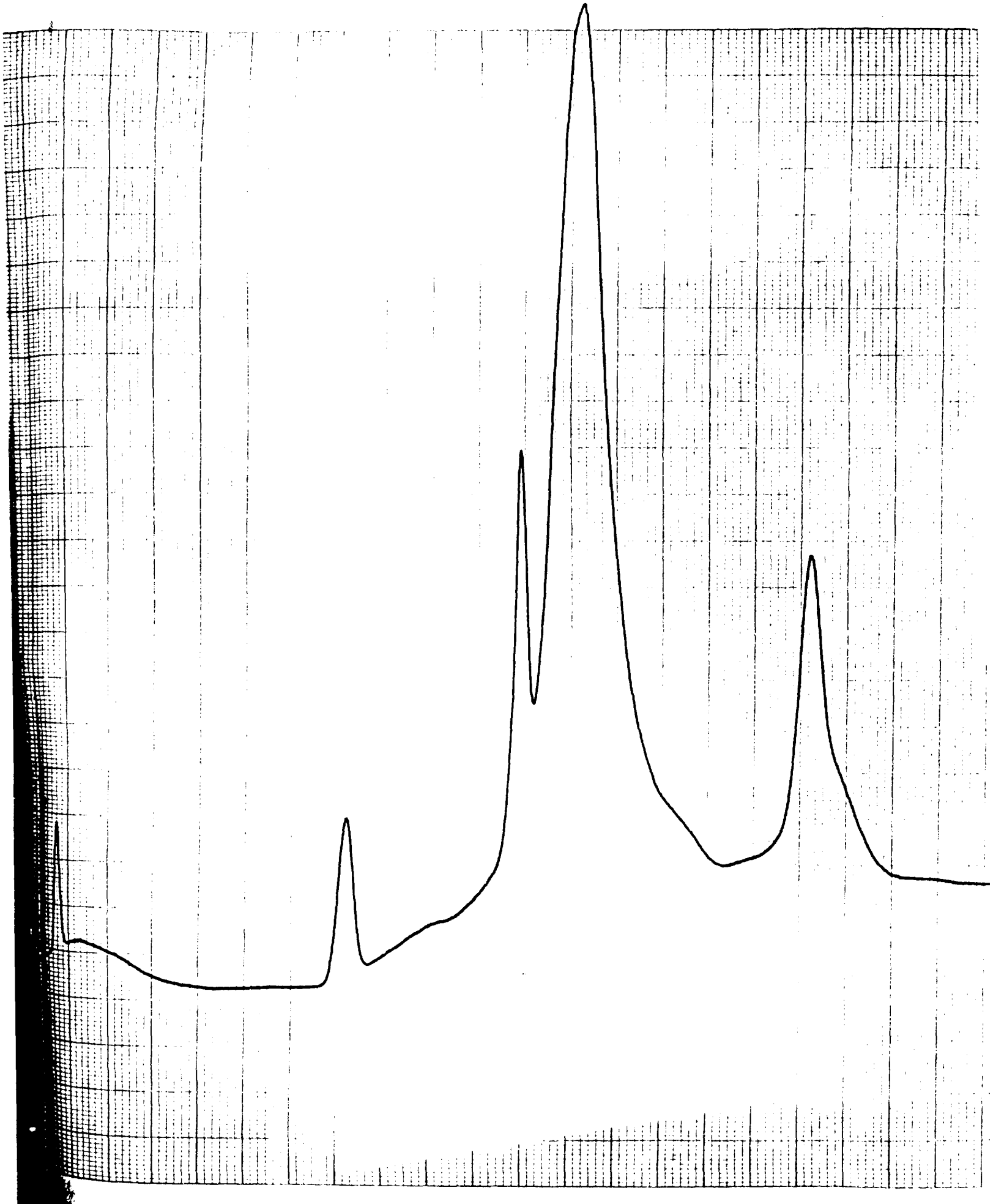

A2
90905
1:10 of 20-l
1/2 ext





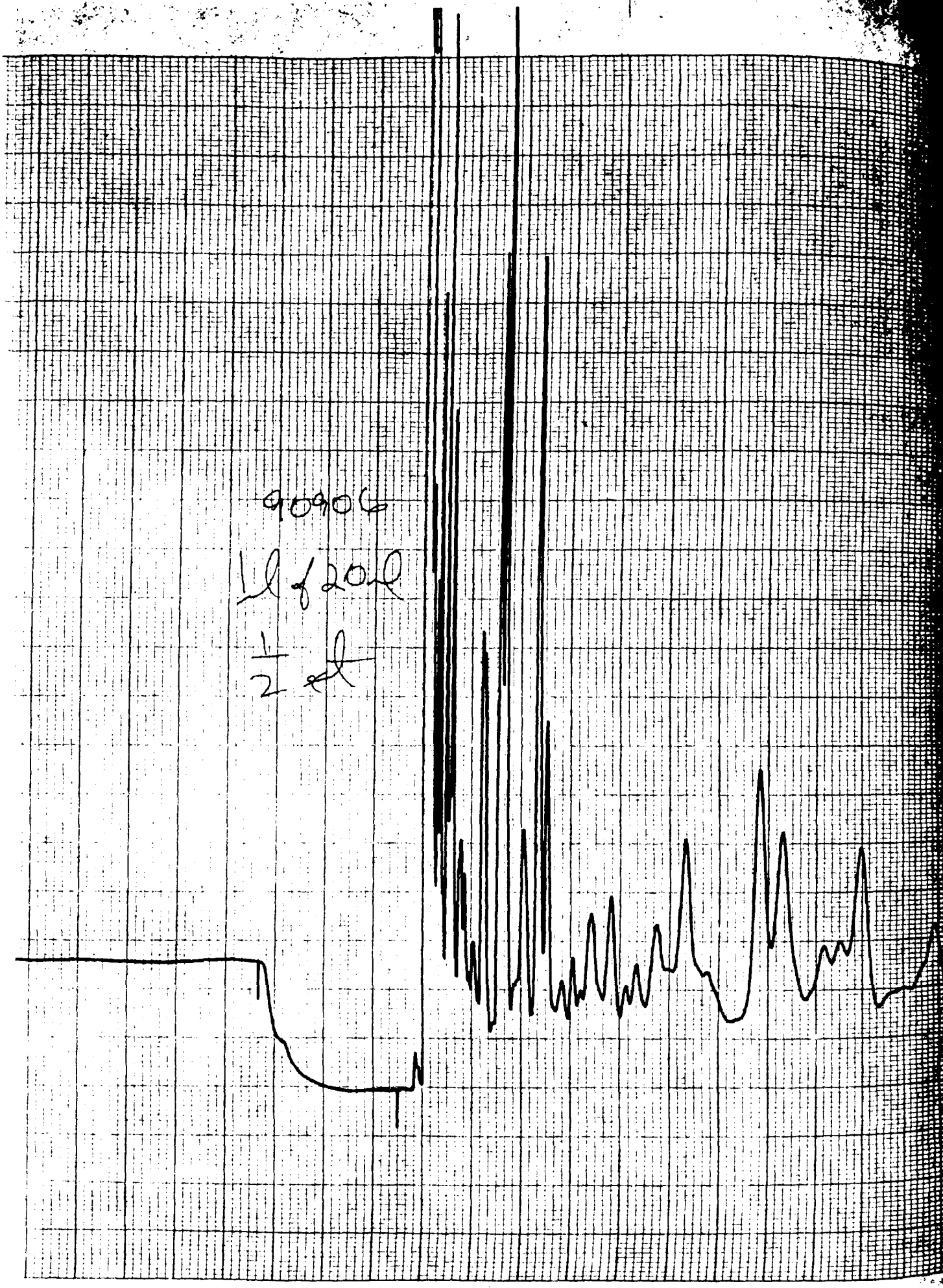

13
-50 dB

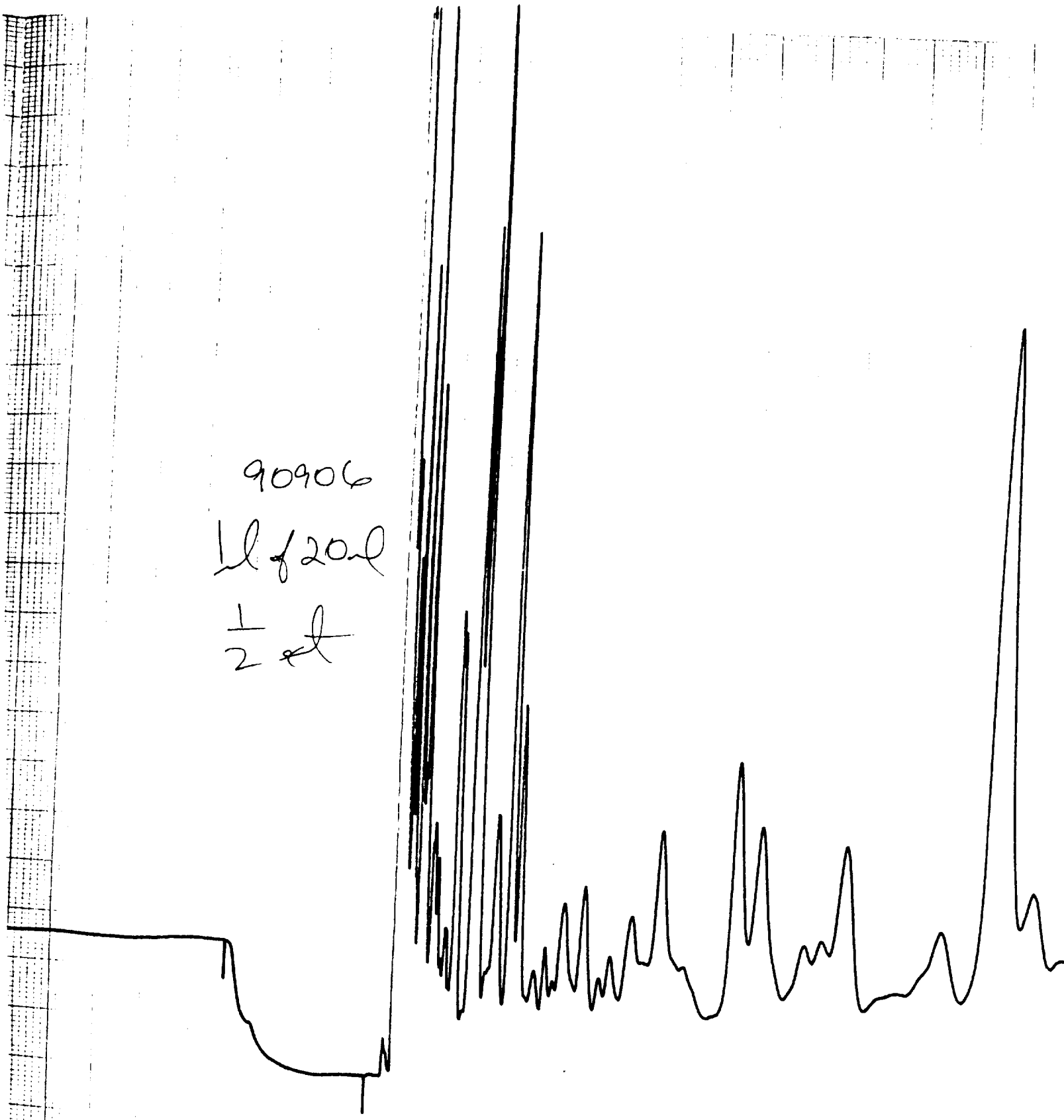


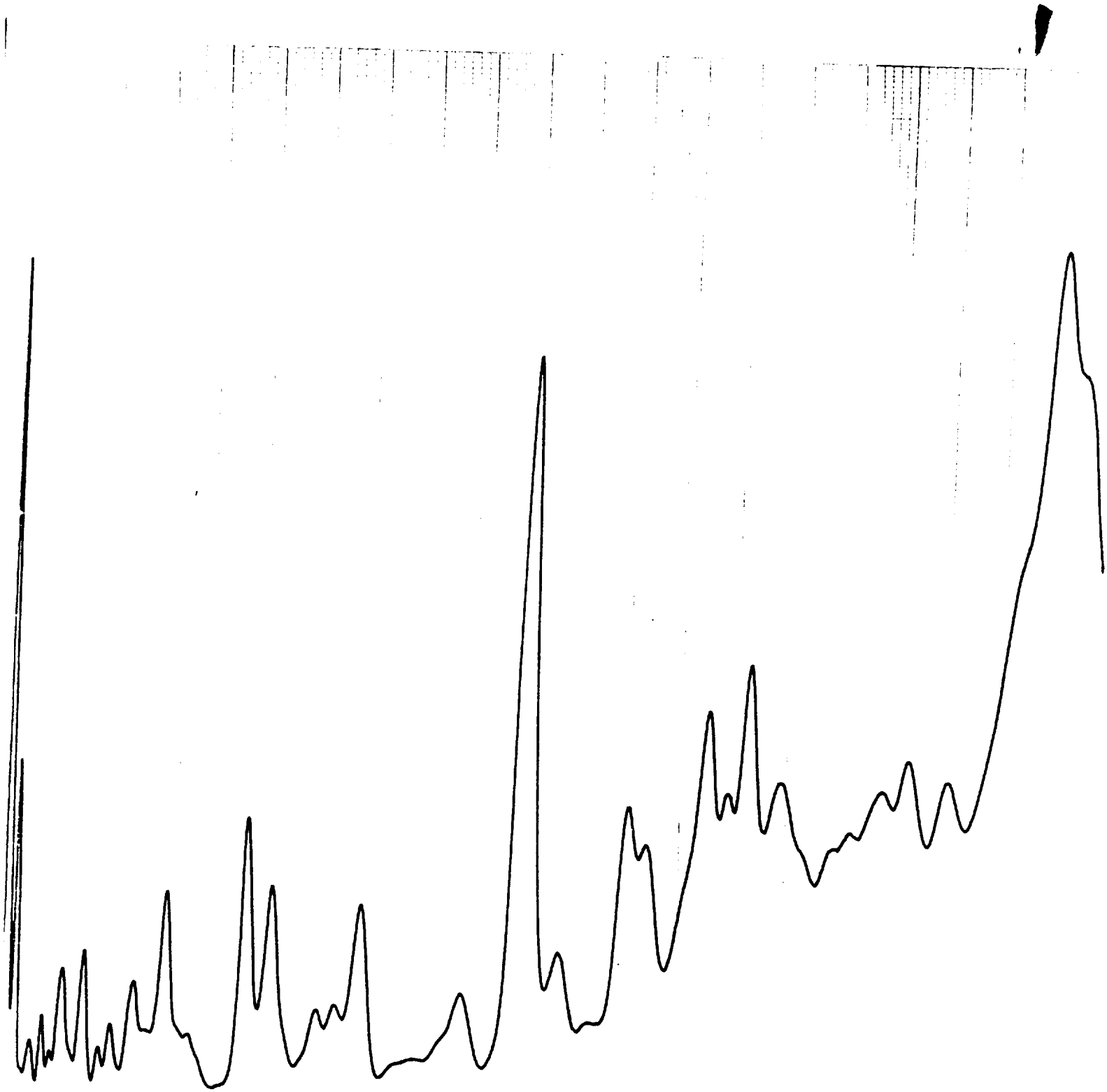


PHIC CONTROLS CORPORATION BUFFALO, NEW YORK

90906
1 l of 20 l
1/2 l


90906
1 ml of 20 ml
1/2 ml


90906
1l of 20l
1/2 et



COMPOUND DB-1701	RT	RT WINDOW FROM	RT WINDOW TO
alpha-BHC	3.588	3.559	3.617
beta-BHC	7.019	6.961	7.077
delta-BHC	8.149	8.083	8.215
gamma-BHC	4.533	4.486	4.580
Heptachlor	5.106	5.055	5.157
Aldrin	5.982	5.923	6.041
Hept. epoxide	9.141	9.048	9.234
Endosulfan I	10.721	10.618	10.824
Dieldrin	13.365	13.235	13.495
4,4'-DDE	12.325	12.226	12.424
Endrin	14.668	14.562	14.774
Endosulfan II	17.618	17.508	17.728
4,4'-DDD	17.445	17.359	17.531
Endo. sulfate	23.071	22.978	23.165
4,4'-DDT	18.411	18.326	18.496
Methoxychlor	23.743	23.617	23.869
Endrin ketone	26.603	26.494	26.712
a Chlordane	11.672	11.581	11.763
g Chlordane	11.115	11.027	11.203
Toxaphene	19.205	19.129	19.281
Arochlor 1016	4.723	4.676	4.770
Arochlor 1221	2.924	2.898	2.950
Arochlor 1232	4.723	4.685	4.761
Arochlor 1242	4.723	4.697	4.749
Arochlor 1248	5.846	5.798	5.894
Arochlor 1254	8.699	8.639	8.759
Arochlor 1260	15.598	15.511	15.685
Endrin Aldehy	20.393	20.285	20.501
DBC	24.853	24.480	25.226

0412458.02
Surrogt

DB-1701

~~DBE5~~

PERKIN-ELMER CLAS 2000 04/15/91 08:05:35

EXTERNAL STANDARD

SAMPLE: 0412H5B .02 INST:22 VIAL: 0 SEQ NUMBER:002
TEST : DATE-TIME COLLECTED : 04/12/91 16:20:07
COLLECTION TIME : 29.88 DATE-TIME PROCESSED : 04/12/91 16:50:33
METHOD: CLPA / CLPA REV #: 00015 ANALYST: CELESTE SAMP RATE: 1.56

SAMPLE WT : 1.0000 STANDARD WT : 1.0000 DILUTION FACTOR : 1.0000

PK NO	RT MINUTES	PEAK HEIGHT	COMPONENT NAME
001	2.024	356	
002	5.982	2129	— ALDRIN
003	14.668	2254	— ENDRIN
004	18.411	4924	— DDT
005	20.427	227	
006	24.853	2868	— DBC
007	26.583	198	
		12956	

EVAL A

1.0 ml

DBC window 24.480 - 25.226

20-26

CK .29 ✓
30 ✓
.43

check for date-time correct after XXX

.01 XXX
.41 XXX

Eval A D1.. F4 (.02
B ✓ D5.. F8 (.03 Init
C D9.. F12 (.04
Ind A D13.. F23 (.05) Init A
B D24.. F35 (.06) Init B
Eval B ✓ D36.. F39 (.19) 1st Eval B
Ind A D40.. F50 (.25) 1st Ind A
Eval B ✓ D51.. F54 (.32) 2nd Eval B
Ind B ✓ D55.. F66 (.38) 1st Ind B
Eval B D67.. F70 (.44) 3rd Eval B
Ind A D71.. F84 (.46) Ind A - 2nd
Ind B D82.. F93 (.47) Ind B - 2nd

repeat	time	ht	date	time
A1..A43	B1..B43	C1..C43	D	E

PERKIN-ELMER CLAS 2000 04/15/91 08:05:35

EXTERNAL STANDARD

SAMPLE: 0412H5B .03 INST:22 VIAL: 0 SEQ NUMBER:003
TEST : DATE--TIME COLLECTED : 04/12/91 16:54:56
COLLECTION TIME : 29.88 DATE-TIME PROCESSED : 04/12/91 17:25:53
METHOD: CLPA / CLPA REV #: 00015 ANALYST: CELESTE SAMP RATE: 1.56

SAMPLE WT : 1.0000 STANDARD WT : 1.0000 DILUTION FACTOR : 1.0000

PK NO	RT MINUTES	PEAK HEIGHT	COMPONENT NAME
001	2.025	228	
002	5.986	1037	ALDRIN
003	14.672	1073	ENDRIN
004	18.419	2185	DDT
005	20.448	123	EA
006	24.871	1413	DBC
007	26.597	110	LK
		6169	

EVAL B

1.0 ml

PERKIN-ELMER CLAS 2000 04/15/91 08:05:35

EXTERNAL STANDARD

SAMPLE: 0412H5B .04 INST:22 VIAL: 0 SEQ NUMBER:004
TEST : DATE-TIME COLLECTED : 04/12/91 17:29:45
COLLECTION TIME : 29.88 DATE-TIME PROCESSED : 04/12/91 18:00:12
METHOD: CLPA / CLPA REV #: 00015 ANALYST: CELESTE SAMP RATE: 1.56

SAMPLE WT : 1.0000 STANDARD WT : 1.0000 DILUTION FACTOR : 1.0000

PK NO	RT MINUTES	PEAK HEIGHT	COMPONENT NAME
001	2.025	411	
002	5.984	527	ALDRIN
003	14.674	572	ENDRIN
004	18.419	1099	DDT
005	24.869	739	DBC
		3348	

EVAL C
1.0 ml

PERKIN-ELMER CLAS 2000 04/15/91 08:05:35

EXTERNAL STANDARD

SAMPLE: 0412H5B .05 INST:22 VIAL: 0 SEQ NUMBER:005
TEST : DATE-TIME COLLECTED : 04/12/91 18:04:37
COLLECTION TIME : 29.88 DATE-TIME PROCESSED : 04/12/91 18:35:33
METHOD: CLPA / CLPA REV #: 00015 ANALYST: CELESTE SAMP RATE: 1.56

SAMPLE WT : 1.0000 STANDARD WT : 1.0000 DILUTION FACTOR : 1.0000

PK NO	RT MINUTES	PEAK HEIGHT	COMPONENT NAME
001	2.026	284	
002	4.533	1495	D-BHC
003	5.106	1625	Heptachlor
004	5.988	980	Aldrin
005	8.613	256	
006	9.141	794	Hept. Epox
007	10.721	1215	Endosulfan I
008	13.365	1010	Dieldrin
009	17.618	2200	Endo II
010	18.425	1718	DDT
011	20.393	1873	Endrin Aldehyde
012	23.743	4444	Methoxychlor
013	24.864	2827	DBC
		20721	

INDA

1.0 ml

PERKIN-ELMER CLAS 2000 04/15/91 08:05:35

EXTERNAL STANDARD

SAMPLE: 0412H5B .06 INST:22 VIAL: 0 SEQ NUMBER:006
TEST : DATE-TIME COLLECTED : 04/12/91 18:39:29
COLLECTION TIME : 29.88 DATE-TIME PROCESSED : 04/12/91 19:10:06
METHOD: CLPA / CLPA REV #: 00015 ANALYST: CELESTE SAMP RATE: 1.56

SAMPLE WT : 1.0000 STANDARD WT : 1.0000 DILUTION FACTOR : 1.0000

PK NO	RT MINUTES	PEAK HEIGHT	COMPONENT NAME
001	3.588	1353	α-BHC C70
002	5.985	1716	Aldrin C53
003	7.019	1130	β-BHC C71
004	8.149	1169	Δ-BHC C73
005	11.115	810	γ-chlordane
006	11.672	1705	α-chlordane
007	12.325	625	DDE
008	14.672	757	Endrin
009	17.445	1362	DDD
010	20.427	90	
011	23.071	1369	Endosulfan Sulfate
012	24.875	2480	DBC
013	26.603	1186	Endrin Ketone
		15752	

INDB

1.0 ml

PERKIN-ELMER CLAS 2000 04/15/91 08:05:35

EXTERNAL STANDARD

SAMPLE: 0412H5B .07 INST:22 VIAL: 0 SEQ NUMBER:007
TEST : DATE-TIME COLLECTED : 04/12/91 19:14:18
COLLECTION TIME : 29.88 DATE-TIME PROCESSED : 04/12/91 19:45:03
METHOD: CLPA / CLPA REV #: 00015 ANALYST: CELESTE SAMP RATE: 1.56

SAMPLE WT : 1.0000 STANDARD WT : 1.0000 DILUTION FACTOR : 1.0000

PK NO	RT MINUTES	PEAK HEIGHT	COMPONENT NAME
001	2.026	320	
002	7.296	68	
003	8.277	193	
004	10.131	264	
005	11.157	154	
006	12.896	263	
007	14.581	640	
008	15.339	321	
009	16.195	541	
010	16.617	834	
011	17.461	1075	
012	17.899	753	
013	18.468	841	
014	19.205	1557	Tox
015	20.199	1237	
016	21.867	850	
017	22.389	776	
018	23.035	439	
019	24.864	2876	— DBC
020	28.704	188	
		14190	

TOXAPH

1.0ml

PERKIN-ELMER CLAS 2000 04/15/91 08:05:35

EXTERNAL STANDARD

SAMPLE: 0412H5B .08 INST:22 VIAL: 0 SEQ NUMBER:008
TEST : DATE-TIME COLLECTED : 04/12/91 19:49:07
COLLECTION TIME : 29.88 DATE-TIME PROCESSED : 04/12/91 20:20:01
METHOD: CLPA / CLPA REV #: 00015 ANALYST: CELESTE SAMP RATE: 1.56

SAMPLE WT : 1.0000 STANDARD WT : 1.0000 DILUTION FACTOR : 1.0000

PK NO	RT MINUTES	PEAK HEIGHT	COMPONENT NAME
001	2.026	366	
002	2.924	2114	
003	3.651	3503	
004	4.218	1301	
005	4.723	5046	1016
006	5.149	1972	
007	5.478	1136	
008	5.846	2037	
009	6.809	1670	
010	7.241	1234	
011	8.032	288	
012	8.717	847	
013	9.792	716	
014	12.464	271	
015	13.189	896	
016	14.174	1748	
017	15.598	2304	1260
018	16.287	1215	
019	16.629	1057	
020	17.579	2773	
021	18.087	1898	
022	20.064	1444	
023	22.311	2786	
024	24.874	2902	DBC
025	25.621	1799	
		43323	

16/60

1.0ml

PERKIN-ELMER CLAS 2000 04/15/91 08:05:35

EXTERNAL STANDARD

SAMPLE: 0412H5B .09 INST:22 VIAL: 0 SEQ NUMBER:009
TEST : DATE-TIME COLLECTED : 04/12/91 20:23:54
COLLECTION TIME : 29.88 DATE-TIME PROCESSED : 04/12/91 20:54:40
METHOD: CLPA / CLPA REV #: 00015 ANALYST: CELESTE SAMP RATE: 1.56

SAMPLE WT : 1.0000 STANDARD WT : 1.0000 DILUTION FACTOR : 1.0000

PK NO	RT MINUTES	PEAK HEIGHT	COMPONENT NAME
001	1.756	1390	
002	2.026	355	
003	2.378	463	
004	2.597	1407	
005	2.924	3224	
006	3.667	431	
007	3.900	382	
008	4.725	401	
009	24.864	3033	DBC
		11086	

1221

1.0 ml

PERKIN-ELMER CLAS 2000 04/15/91 08:05:35

EXTERNAL STANDARD

SAMPLE: 0412H5B .10 INST:22 VIAL: 0 SEQ NUMBER:010
TEST : DATE-TIME COLLECTED : 04/12/91 20:58:44
COLLECTION TIME : 29.88 DATE-TIME PROCESSED : 04/12/91 21:29:39
METHOD: CLPA / CLPA REV #: 00015 ANALYST: CELESTE SAMP RATE: 1.56

SAMPLE WT : 1.0000 STANDARD WT : 1.0000 DILUTION FACTOR : 1.0000

PK NO	RT MINUTES	PEAK HEIGHT	COMPONENT NAME
001	1.757	879	
002	2.380	300	
003	2.598	736	
004	2.924	2204	
005	3.652	1695	
006	4.218	594	
007	4.723	2297	
008	5.151	912	
009	5.477	512	
010	5.842	1026	
011	6.807	870	
012	7.243	720	
013	8.085	370	
014	8.682	885	
015	10.043	400	
016	12.235	94	
017	13.045	145	
018	17.595	113	
019	24.864	2929	DBC
		17681	

1232

1.0 ml

PERKIN-ELMER CLAS 2000 04/15/91 08:05:35

EXTERNAL STANDARD

SAMPLE: 0412H5B .11 INST:22 VIAL: 0 SEQ NUMBER:011
TEST : DATE-TIME COLLECTED : 04/12/91 21:33:35
COLLECTION TIME : 29.88 DATE-TIME PROCESSED : 04/12/91 22:04:21
METHOD: CLPA / CLPA REV #: 00015 ANALYST: CELESTE SAMP RATE: 1.56

SAMPLE WT : 1.0000 STANDARD WT : 1.0000 DILUTION FACTOR : 1.0000

PK NO	RT MINUTES	PEAK HEIGHT	COMPONENT NAME
001	2.026	342	
002	2.923	1925	
003	3.651	2997	
004	4.218	1095	
005	4.723	4093	1242
006	5.149	1609	
007	5.477	913	
008	5.847	1618	
009	6.808	1356	
010	7.244	1200	
011	8.085	610	
012	8.683	1339	
013	10.043	619	
014	12.277	125	
015	13.024	182	
016	14.635	136	
017	16.672	133	
018	24.864	2905	DBC
		23197	

1242

1.0 ml

PERKIN-ELMER CLAS 2000 04/15/91 08:05:35

EXTERNAL STANDARD

SAMPLE: 0412H5B .12 INST:22 VIAL: 0 SEQ NUMBER:012
TEST : DATE-TIME COLLECTED : 04/12/91 22:08:25
COLLECTION TIME : 29.88 DATE-TIME PROCESSED : 04/12/91 22:38:52
METHOD: CLPA / CLPA REV #: 00015 ANALYST: CELESTE SAMP RATE: 1.56

SAMPLE WT : 1.0000 STANDARD WT : 1.0000 DILUTION FACTOR : 1.0000

PK NO	RT MINUTES	PEAK HEIGHT	COMPONENT NAME
001	1.673	565	
002	2.025	377	
003	3.650	1643	
004	4.094	500	
005	4.723	3584	
006	5.143	1087	
007	5.490	684	
008	5.846	2710	1248
009	6.805	2099	
010	7.232	1838	
011	8.096	1206	
012	8.683	2635	
013	10.024	1311	
014	11.579	243	
015	12.227	355	
016	13.024	508	
017	14.619	453	
018	15.616	104	
019	16.657	430	
020	17.589	201	
021	22.309	111	
022	24.856	3000	— DBC
		25644	

1248

1.0 ml

PERKIN-ELMER CLAS 2000 04/15/91 08:05:35

EXTERNAL STANDARD

SAMPLE: 0412H5B .13 INST:22 VIAL: 0 SEQ NUMBER:013
TEST : DATE-TIME COLLECTED : 04/12/91 22:43:14
COLLECTION TIME : 29.88 DATE-TIME PROCESSED : 04/12/91 23:14:09
METHOD: CLPA / CLPA REV #: 00015 ANALYST: CELESTE SAMP RATE: 1.56

SAMPLE WT : 1.0000 STANDARD WT : 1.0000 DILUTION FACTOR : 1.0000

PK NO	RT MINUTES	PEAK HEIGHT	COMPONENT NAME
001	5.797	1609	
002	6.790	728	
003	7.217	253	
004	8.107	219	
005	8.699	2083	1254
006	9.811	1966	
007	11.584	625	
008	12.176	1052	
009	13.022	2103	
010	14.153	1098	
011	14.624	1588	
012	15.595	1127	
013	16.293	741	
014	16.654	1175	
015	17.580	2275	
016	19.808	487	
017	21.483	230	
018	22.293	210	
019	24.863	2960	DBC
		22529	

1254

1.0ml

PERKIN-ELMER CLAS 2000 04/15/91 08:05:35

EXTERNAL STANDARD

SAMPLE: 0412H5B .14 INST:22 VIAL: 0 SEQ NUMBER:014
TEST : DATE-TIME COLLECTED : 04/12/91 23:18:01
COLLECTION TIME : 29.88 DATE-TIME PROCESSED : 04/12/91 23:48:29
METHOD: CLPA / CLPA REV #: 00015 ANALYST: CELESTE SAMP RATE: 1.56

SAMPLE WT : 1.0000 STANDARD WT : 1.0000 DILUTION FACTOR : 1.0000

PK NO	RT MINUTES	PEAK HEIGHT	COMPONENT NAME
001	23.637	307	
002	24.864	1962	DBC
		2269	

90894

1.0ml of 10ml

$\frac{1}{2}$ ext

PERKIN-ELMER CLAS 2000 04/15/91 08:05:35

EXTERNAL STANDARD

SAMPLE: 0412H5B .15 INST:22 VIAL: 0 SEQ NUMBER:015
TEST : DATE-TIME COLLECTED : 04/12/91 23:52:47
COLLECTION TIME : 29.88 DATE-TIME PROCESSED : 04/13/91 00:23:26
METHOD: CLPA / CLPA REV #: 00015 ANALYST: CELESTE SAMP RATE: 1.56

SAMPLE WT : 1.0000 STANDARD WT : 1.0000 DILUTION FACTOR : 1.0000

PK NO	RT MINUTES	PEAK HEIGHT	COMPONENT NAME
001	1.673	485	
002	23.648	308	
003	24.868	2065	DBC
		2858	

90895

1.0 ml of 10 ml

½ ext

PERKIN-ELMER CLAS 2000 04/15/91 08:05:35

EXTERNAL STANDARD

SAMPLE: C412H5B .16 INST:22 VIAL: 0 SEQ NUMBER:016
TEST : DATE-TIME COLLECTED : 04/13/91 00:27:40
COLLECTION TIME : 29.88 DATE-TIME PROCESSED : 04/13/91 00:58:28
METHOD: CLPA / CLPA REV #: 00015 ANALYST: CELESTE SAMP RATE: 1.56

SAMPLE WT : 1.0000 STANDARD WT : 1.0000 DILUTION FACTOR : 1.0000

PK NO	RT MINUTES	PEAK HEIGHT	COMPONENT NAME
001	1.674	567	
002	29.659	327	
003	24.880	2170	OBC
		3064	

90896

1.0ml of 10ml

½ ext

COMPOUND DB-1701	RT	RT WINDOW FROM	RT WINDOW TO
alpha-BHC	3.588	3.559	3.617
beta-BHC	7.019	6.961	7.077
delta-BHC	8.149	8.083	8.215
gamma-BHC	4.533	4.486	4.580
Heptachlor	5.106	5.055	5.157
Aldrin	5.982	5.923	6.041
Hept. epoxide	9.141	9.048	9.234
Endosulfan I	10.721	10.618	10.824
Dieldrin	13.365	13.235	13.495
4,4'-DDE	12.325	12.226	12.424
Endrin	14.668	14.562	14.774
Endosulfan II	17.618	17.508	17.728
4,4'-DDD	17.445	17.359	17.531
Endo. sulfate	23.071	22.978	23.165
4,4'-DDT	18.411	18.326	18.496
Methoxychlor	23.743	23.617	23.869
Endrin ketone	26.603	26.494	26.712
a Chlordane	11.672	11.581	11.763
g Chlordane	11.115	11.027	11.203
Toxaphene	19.205	19.129	19.281
Arochlor 1016	4.723	4.676	4.770
Arochlor 1221	2.924	2.898	2.950
Arochlor 1232	4.723	4.685	4.761
Arochlor 1242	4.723	4.697	4.749
Arochlor 1248	5.846	5.798	5.894
Arochlor 1254	8.699	8.639	8.759
Arochlor 1260	15.598	15.511	15.685
Endrin Aldehy	20.393	20.285	20.501
DBC	24.853	24.480	25.226

0412458.02
Surrogt

DB-1701

~~DBCS~~

PERKIN-ELMER CLAS 2000 04/15/91 08:05:35

EXTERNAL STANDARD

SAMPLE: 0412H5B .02 INST:22 VIAL: 0 SEQ NUMBER:002
TEST : DATE-TIME COLLECTED : 04/12/91 16:20:07
COLLECTION TIME : 29.88 DATE-TIME PROCESSED : 04/12/91 16:50:33
METHOD: CLPA / CLPA REV #: 00015 ANALYST: CELESTE SAMP RATE: 1.56

SAMPLE WT : 1.0000 STANDARD WT : 1.0000 DILUTION FACTOR : 1.0000

PK NO	RT MINUTES	PEAK HEIGHT	COMPONENT NAME
001	2.024	356	
002	5.982	2129	— ALDRIN
003	14.668	2254	— ENDRIN
004	18.411	4924	— DDT
005	20.427	227	
006	24.853	2868	— DBC
007	26.583	198	
		12956	

EVAL A

1.0ml

DBC window 24.480 - 25.226

20-26

CK .29 ✓
30
.43

check for date-time correct after XXX

.01 XXX
.41 XXX

Eval A D1.. F4(.02
B ✓ D5.. F8(.03 Init
C D9.. F12(.04
Ind A D13.. F23(.05) Init A
B D24.. F35(.06) Init B
Eval B ✓ D36.. F39(.19) 1st Eval B
Ind A D40.. F50(.25) 1st Ind A
Eval B ✓ D51.. F54(.32) 2nd Eval B
Ind B ✓ D55.. F66(.38) 1st Ind B
Eval B D67.. F70 (.44) 3rd Eval B
Ind A D71.. F84 (.46) Ind A - 2nd
Ind B D82.. F93 (.47) Ind B - 2nd

repeat	time	ht	date	time
A1..A43	B1..B43	C1..C43	D	E

PERKIN-ELMER CLAS 2000 04/15/91 08:05:35

EXTERNAL STANDARD

SAMPLE: 0412H5B .03 INST:22 VIAL: 0 SEQ NUMBER:003
TEST : DATE-TIME COLLECTED : 04/12/91 16:54:56
COLLECTION TIME : 29.88 DATE-TIME PROCESSED : 04/12/91 17:25:53
METHOD: CLPA / CLPA REV #: 00015 ANALYST: CELESTE SAMP RATE: 1.56

SAMPLE WT : 1.0000 STANDARD WT : 1.0000 DILUTION FACTOR : 1.0000

PK NO	RT MINUTES	PEAK HEIGHT	COMPONENT NAME
001	2.025	228	
002	5.986	1037	ALDRIN
003	14.672	1073	ENDRIN
004	18.419	2185	DDT
005	20.448	123	EA
006	24.871	1413	DBC
007	26.597	110	LK
		6169	

EVAL B
1.0 ml

PERKIN-ELMER CLAS 2000 04/15/91 08:05:35

EXTERNAL STANDARD

SAMPLE: 0412H5B .04 INST:22 VIAL: 0 SEQ NUMBER:004
TEST : DATE-TIME COLLECTED : 04/12/91 17:29:45
COLLECTION TIME : 29.88 DATE-TIME PROCESSED : 04/12/91 18:00:12
METHOD: CLPA / CLPA REV #: 00015 ANALYST: CELESTE SAMP RATE: 1.56

SAMPLE WT : 1.0000 STANDARD WT : 1.0000 DILUTION FACTOR : 1.0000

PK NO	RT MINUTES	PEAK HEIGHT	COMPONENT NAME
001	2.025	411	
002	5.984	527	ALDRIN
003	14.674	572	ENDRIN
004	18.419	1099	DDT
005	24.869	739	DBC
		3348	

EVAL C
1.0 ml

PERKIN-ELMER CLAS 2000 04/15/91 08:05:35

EXTERNAL STANDARD

SAMPLE: 0412H5B .05 INST:22 VIAL: 0 SEQ NUMBER:005
TEST : DATE-TIME COLLECTED : 04/12/91 18:04:37
COLLECTION TIME : 29.88 DATE-TIME PROCESSED : 04/12/91 18:35:33
METHOD: CLPA / CLPA REV #: 00015 ANALYST: CELESTE SAMP RATE: 1.56

SAMPLE WT : 1.0000 STANDARD WT : 1.0000 DILUTION FACTOR : 1.0000

PK NO	RT MINUTES	PEAK HEIGHT	COMPONENT NAME
001	2.026	284	
002	4.593	1495	D-BHC
003	5.106	1625	Heptachlor
004	5.988	980	Aldrin
005	8.613	256	
006	9.141	794	Hept. Epox
007	10.721	1215	Endosulfan I
008	13.365	1010	Dieldrin
009	17.618	2200	Endo II
010	18.425	1718	DDT
011	20.393	1873	Endrin Aldehyde
012	23.743	4444	Methoxychlor
013	24.864	2827	DBC
		20721	

INDA

1.0 ml

PERKIN-ELMER CLAS 2000 04/15/91 08:05:35

EXTERNAL STANDARD

SAMPLE: 0412H5B .06 INST:22 VIAL: 0 SEQ NUMBER:006
TEST : DATE-TIME COLLECTED : 04/12/91 18:39:29
COLLECTION TIME : 29.88 DATE-TIME PROCESSED : 04/12/91 19:10:06
METHOD: CLPA / CLPA REV #: 00015 ANALYST: CELESTE SAMP RATE: 1.56

SAMPLE WT : 1.0000 STANDARD WT : 1.0000 DILUTION FACTOR : 1.0000

PK NO	RT MINUTES	PEAK HEIGHT	COMPONENT NAME
001	3.588	1353	α-BHC C70
002	5.985	1716	Aldrin C53
003	7.019	1130	β-BHC C71
004	8.149	1169	Δ-BHC C73
005	11.115	810	γ-chlordane
006	11.672	1705	α-chlordane
007	12.325	625	DDE
008	14.672	757	Endrin
009	17.445	1362	DDD
010	20.427	90	
011	23.071	1369	Endosulfan Sulfate
012	24.875	2480	DDT
013	26.603	1186	Endrin Ketone
		15752	

INDB

1.0 ml

PERKIN-ELMER CLAS 2000 04/15/91 08:05:35

EXTERNAL STANDARD

SAMPLE: 0412H5B .07 INST:22 VIAL: 0 SEQ NUMBER:007
TEST : DATE-TIME COLLECTED : 04/12/91 19:14:18
COLLECTION TIME : 29.88 DATE-TIME PROCESSED : 04/12/91 19:45:03
METHOD: CLPA / CLPA REV #: 00015 ANALYST: CELESTE SAMP RATE: 1.56

SAMPLE WT : 1.0000 STANDARD WT : 1.0000 DILUTION FACTOR : 1.0000

PK NO	RT MINUTES	PEAK HEIGHT	COMPONENT NAME
001	2.026	320	
002	7.296	68	
003	8.277	193	
004	10.131	264	
005	11.157	154	
006	12.896	263	
007	14.581	640	
008	15.339	321	
009	16.195	541	
010	16.617	834	
011	17.461	1075	
012	17.899	753	
013	18.468	841	
014	19.205	1557	Tox
015	20.199	1237	
016	21.867	850	
017	22.389	776	
018	23.035	439	
019	24.864	2876	— DBC
020	28.704	188	
		14190	

TOXAPH

1.0ml

PERKIN-ELMER CLAS 2000 04/15/91 08:05:35

EXTERNAL STANDARD

SAMPLE: 0412H5B .08 INST:22 VIAL: 0 SEQ NUMBER:008
TEST : DATE-TIME COLLECTED : 04/12/91 19:49:07
COLLECTION TIME : 29.88 DATE-TIME PROCESSED : 04/12/91 20:20:01
METHOD: CLPA / CLPA REV #: 00015 ANALYST: CELESTE SAMP RATE: 1.56

SAMPLE WT : 1.0000 STANDARD WT : 1.0000 DILUTION FACTOR : 1.0000

PK NO	RT MINUTES	PEAK HEIGHT	COMPONENT NAME
001	2.026	366	
002	2.924	2114	
003	3.651	3503	
004	4.218	1301	
005	4.723	5046	1016
006	5.149	1972	
007	5.478	1136	
008	5.846	2037	
009	6.809	1670	
010	7.241	1234	
011	8.032	288	
012	8.717	847	
013	9.792	716	
014	12.464	271	
015	13.189	896	
016	14.174	1748	
017	15.598	2304	1260
018	16.287	1215	
019	16.629	1057	
020	17.579	2773	
021	18.087	1898	
022	20.064	1444	
023	22.311	2786	
024	24.874	2902	DBC
025	25.621	1799	
		43323	

16/60

1.0 ml

PERKIN-ELMER CLAS 2000 04/15/91 08:05:35

EXTERNAL STANDARD

SAMPLE: 0412H5B .09 INST:22 VIAL: 0 SEQ NUMBER:009
TEST : DATE-TIME COLLECTED : 04/12/91 20:23:54
COLLECTION TIME : 29.88 DATE-TIME PROCESSED : 04/12/91 20:54:40
METHOD: CLPA / CLPA REV #: 00015 ANALYST: CELESTE SAMP RATE: 1.56

SAMPLE WT : 1.0000 STANDARD WT : 1.0000 DILUTION FACTOR : 1.0000

PK NO	RT MINUTES	PEAK HEIGHT	COMPONENT NAME
001	1.756	1390	
002	2.026	355	
003	2.378	463	
004	2.597	1407	
005	2.924	3224	
006	3.667	431	
007	3.900	382	
008	4.725	401	
009	24.864	3033	DBC
		11086	

1221

1.0 ml

PERKIN-ELMER CLAS 2000 04/15/91 08:05:35

EXTERNAL STANDARD

SAMPLE: 0412H5B .10 INST:22 VIAL: 0 SEQ NUMBER:010
TEST : DATE-TIME COLLECTED : 04/12/91 20:58:44
COLLECTION TIME : 29.88 DATE-TIME PROCESSED : 04/12/91 21:29:39
METHOD: CLPA / CLPA REV #: 00015 ANALYST: CELESTE SAMP RATE: 1.56

SAMPLE WT : 1.0000 STANDARD WT : 1.0000 DILUTION FACTOR : 1.0000

PK NO	RT MINUTES	PEAK HEIGHT	COMPONENT NAME
001	1.757	879	
002	2.380	300	
003	2.598	736	
004	2.924	2204	
005	3.652	1695	
006	4.218	594	
007	4.723	2297	
008	5.151	912	
009	5.477	512	
010	5.842	1026	
011	6.807	870	
012	7.243	720	
013	8.085	370	
014	8.682	885	
015	10.043	400	
016	12.235	94	
017	13.045	145	
018	17.595	113	
019	24.864	2929	DBC
		17681	

1232

1.0 ml

PERKIN-ELMER CLAS 2000 04/15/91 08:05:35

EXTERNAL STANDARD

SAMPLE: 0412H5B .11 INST:22 VIAL: 0 SEQ NUMBER:011
TEST : DATE-TIME COLLECTED : 04/12/91 21:33:35
COLLECTION TIME : 29.88 DATE-TIME PROCESSED : 04/12/91 22:04:21
METHOD: CLPA / CLPA REV #: 00015 ANALYST: CELESTE SAMP RATE: 1.56

SAMPLE WT : 1.0000 STANDARD WT : 1.0000 DILUTION FACTOR : 1.0000

PK NO	RT MINUTES	PEAK HEIGHT	COMPONENT NAME
001	2.026	342	
002	2.923	1925	
003	3.651	2997	
004	4.218	1095	
005	4.723	4093	1242
006	5.149	1609	
007	5.477	913	
008	5.847	1618	
009	6.808	1356	
010	7.244	1200	
011	8.085	610	
012	8.683	1339	
013	10.043	619	
014	12.277	125	
015	13.024	182	
016	14.635	136	
017	16.672	133	
018	24.864	2905	DBC
		23197	

1242

1.0 ml

PERKIN-ELMER CLAS 2000 04/15/91 08:05:35

EXTERNAL STANDARD

SAMPLE: 0412H5B .12 INST:22 VIAL: 0 SEQ NUMBER:012
TEST : DATE-TIME COLLECTED : 04/12/91 22:08:25
COLLECTION TIME : 29.88 DATE-TIME PROCESSED : 04/12/91 22:38:52
METHOD: CLPA / CLPA REV #: 00015 ANALYST: CELESTE SAMP RATE: 1.56

SAMPLE WT : 1.0000 STANDARD WT : 1.0000 DILUTION FACTOR : 1.0000

PK NO	RT MINUTES	PEAK HEIGHT	COMPONENT NAME
001	1.673	565	
002	2.025	377	
003	3.650	1643	
004	4.094	500	
005	4.723	3584	
006	5.143	1087	
007	5.490	684	
008	5.846	2710	1248
009	6.805	2099	
010	7.232	1838	
011	8.096	1206	
012	8.683	2635	
013	10.024	1311	
014	11.579	243	
015	12.227	355	
016	13.024	508	
017	14.619	453	
018	15.616	104	
019	16.657	430	
020	17.589	201	
021	22.309	111	
022	24.856	3000	— DBC
		25644	

1248

1.0 ml

PERKIN-ELMER CLAS 2000 04/15/91 08:05:35

EXTERNAL STANDARD

SAMPLE: 0412H5B .13 INST:22 VIAL: 0 SEQ NUMBER:013
TEST : DATE-TIME COLLECTED : 04/12/91 22:43:14
COLLECTION TIME : 29.88 DATE-TIME PROCESSED : 04/12/91 23:14:09
METHOD: CLPA / CLPA REV #: 00015 ANALYST: CELESTE SAMP RATE: 1.56

SAMPLE WT : 1.0000 STANDARD WT : 1.0000 DILUTION FACTOR : 1.0000

PK NO	RT MINUTES	PEAK HEIGHT	COMPONENT NAME
001	5.797	1609	
002	6.790	728	
003	7.217	253	
004	8.107	219	
005	8.699	2083	1254
006	9.811	1966	
007	11.584	625	
008	12.176	1052	
009	13.022	2103	
010	14.153	1098	
011	14.624	1588	
012	15.595	1127	
013	16.293	741	
014	16.654	1175	
015	17.580	2275	
016	19.808	487	
017	21.483	230	
018	22.293	210	
019	24.863	2960	DBC
		22529	

1254

1.0ml

PERKIN-ELMER CLAS 2000 04/15/91 08:05:35

EXTERNAL STANDARD

SAMPLE: 0412H5B .14 INST:22 VIAL: 0 SEQ NUMBER:014
TEST : DATE-TIME COLLECTED : 04/12/91 23:18:01
COLLECTION TIME : 29.88 DATE-TIME PROCESSED : 04/12/91 23:48:29
METHOD: CLPA / CLPA REV #: 00015 ANALYST: CELESTE SAMP RATE: 1.56

SAMPLE WT : 1.0000 STANDARD WT : 1.0000 DILUTION FACTOR : 1.0000

PK NO	RT MINUTES	PEAK HEIGHT	COMPONENT NAME
001	23.637	307	
002	24.864	1962	DBC
		2269	

90894

1.0 ml of 10 ml

½ ext

PERKIN-ELMER CLAS 2000 04/15/91 08:05:35

EXTERNAL STANDARD

SAMPLE: 0412H5B .15 INST:22 VIAL: 0 SEQ NUMBER:015
TEST : DATE-TIME COLLECTED : 04/12/91 23:52:47
COLLECTION TIME : 29.88 DATE-TIME PROCESSED : 04/13/91 00:23:26
METHOD: CLPA / CLPA REV #: 00015 ANALYST: CELESTE SAMP RATE: 1.56

SAMPLE WT : 1.0000 STANDARD WT : 1.0000 DILUTION FACTOR : 1.0000

PK NO	RT MINUTES	PEAK HEIGHT	COMPONENT NAME
001	1.673	485	
002	23.648	308	
003	24.868	2065	DBC
		2858	

90895

1.0 ml of 10 ml

½ ext

PERKIN-ELMER CLAS 2000 04/15/91 08:05:35

EXTERNAL STANDARD

SAMPLE: 0412H5B .16 INST:22 VIAL: 0 SEQ NUMBER:016
TEST : DATE-TIME COLLECTED : 04/13/91 00:27:40
COLLECTION TIME : 29.88 DATE-TIME PROCESSED : 04/13/91 00:58:28
METHOD: CLPA / CLPA REV #: 00015 ANALYST: CELESTE SAMP RATE: 1.56

SAMPLE WT : 1.0000 STANDARD WT : 1.0000 DILUTION FACTOR : 1.0000

PK NO	RT MINUTES	PEAK HEIGHT	COMPONENT NAME
001	1.674	567	
002	23.659	327	
003	24.880	2170	OBC
		3064	

90896

1.0ml of 10ml

½ ext

DLPC RECORDS UNIT
Microfilm Code Sheet

ID Number L 1 6 3 0 2 0 0 0 0 5

Name SAUGET SITES

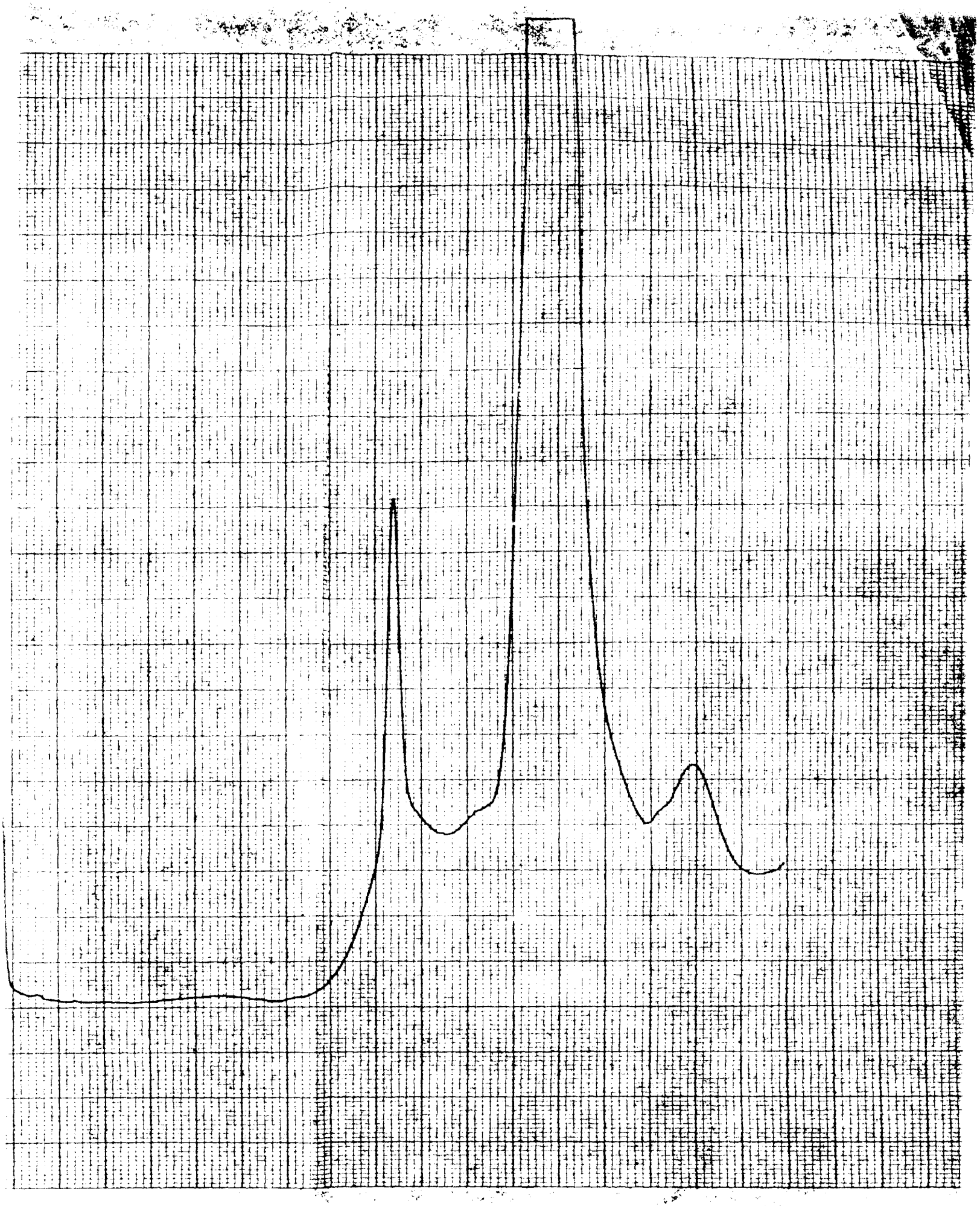
File Division 19 A

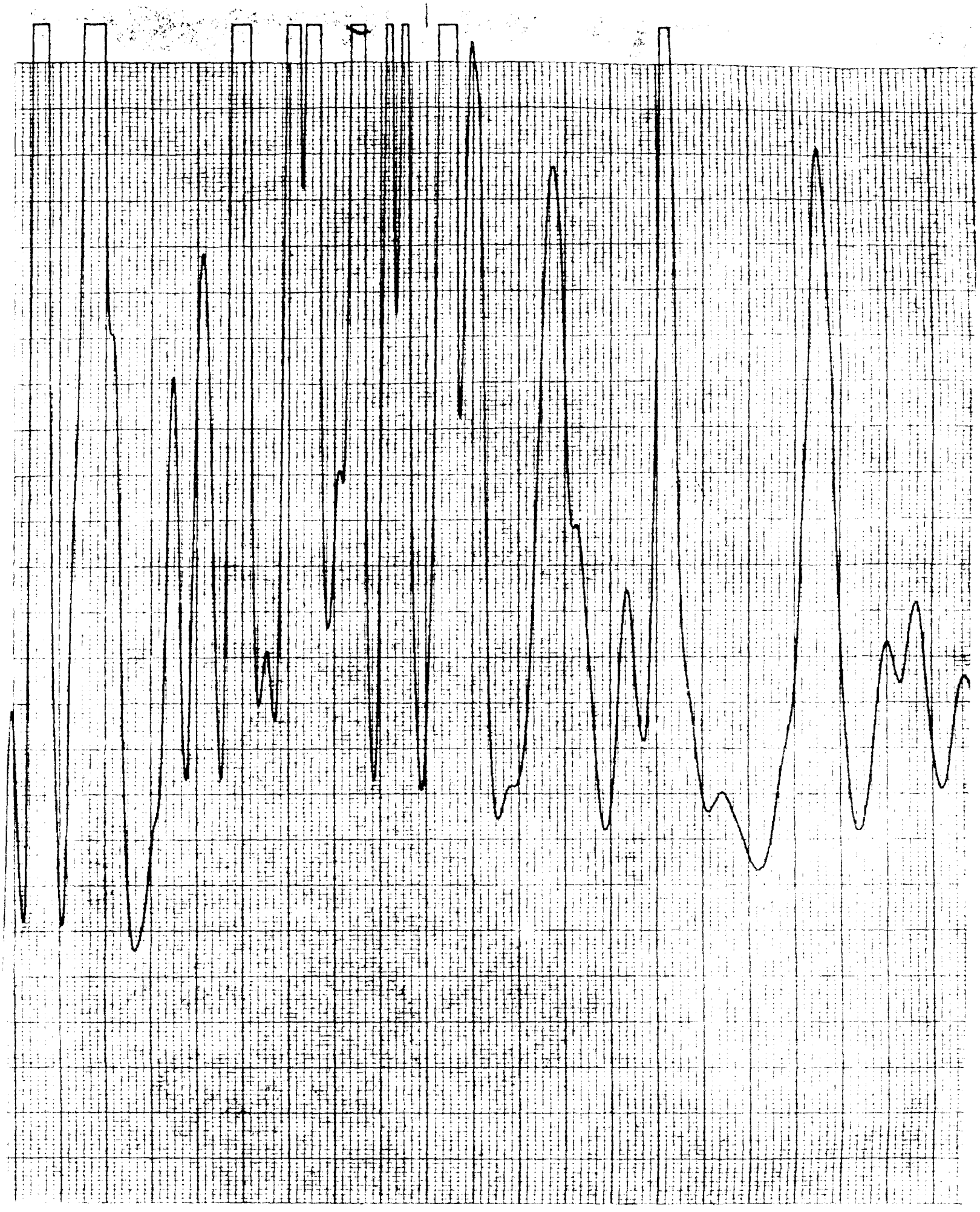
Permit or Federal ID Number ILD984809251

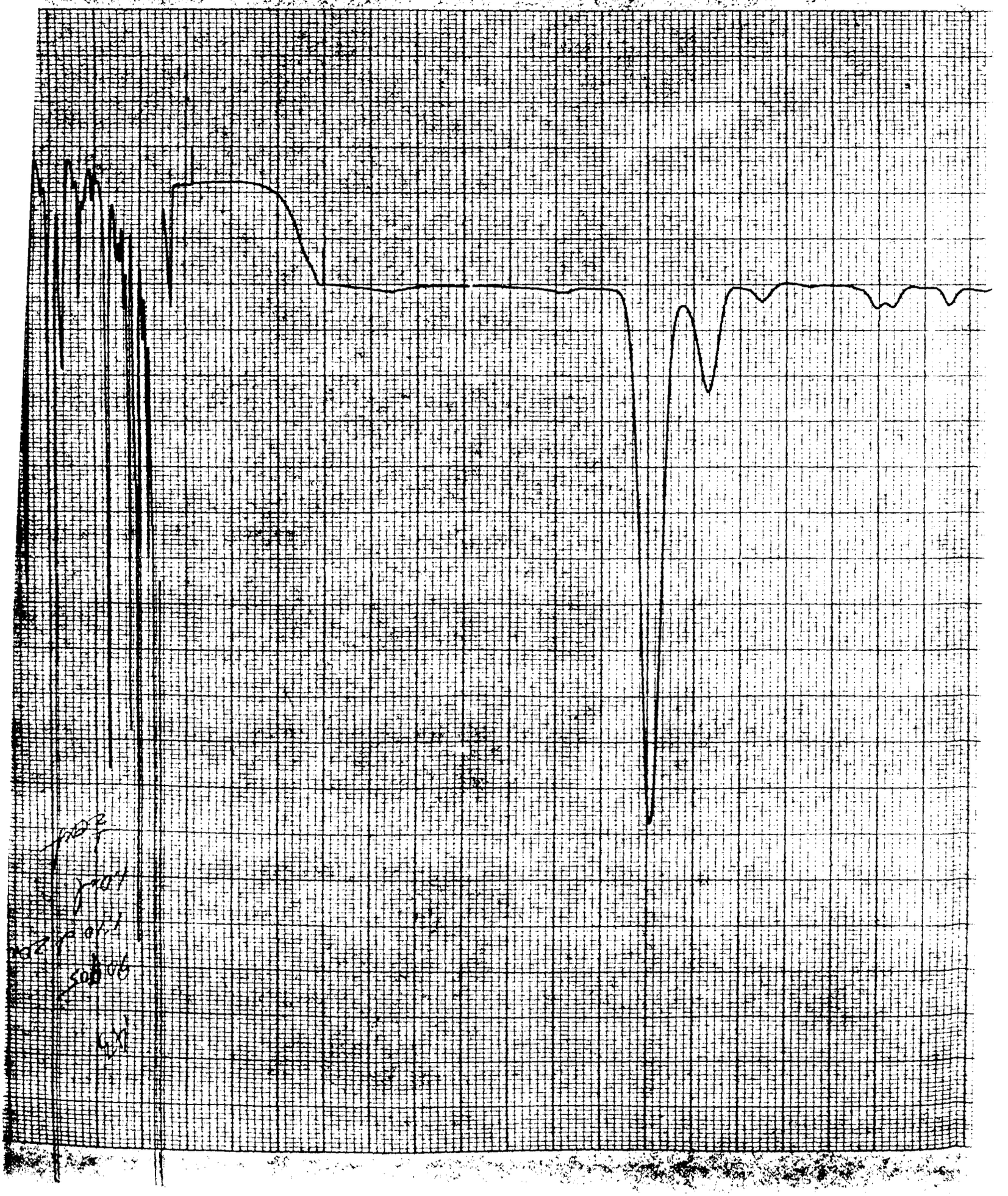
Cross-reference Information

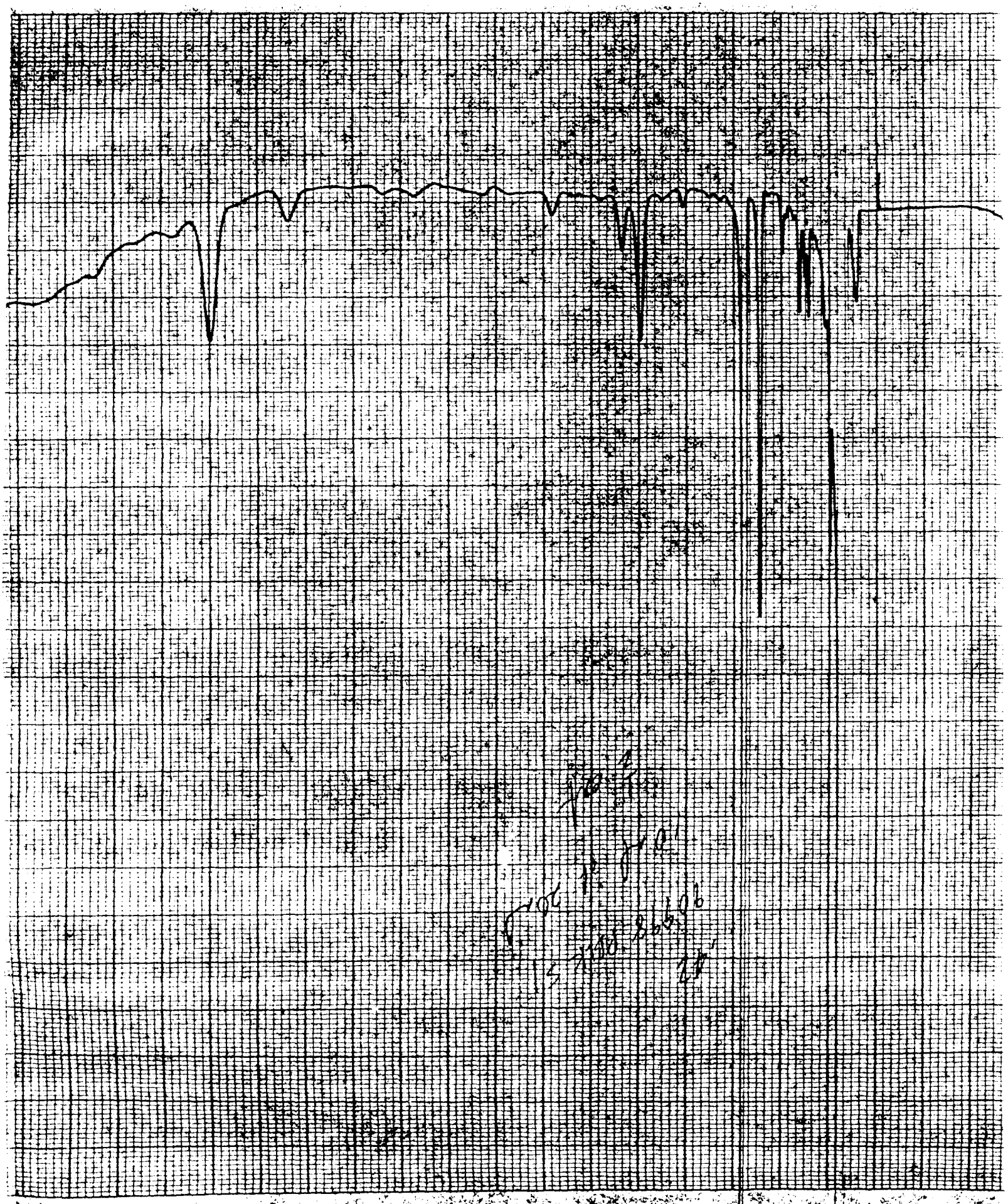
IL 532 1577
ISD 1268 6/87

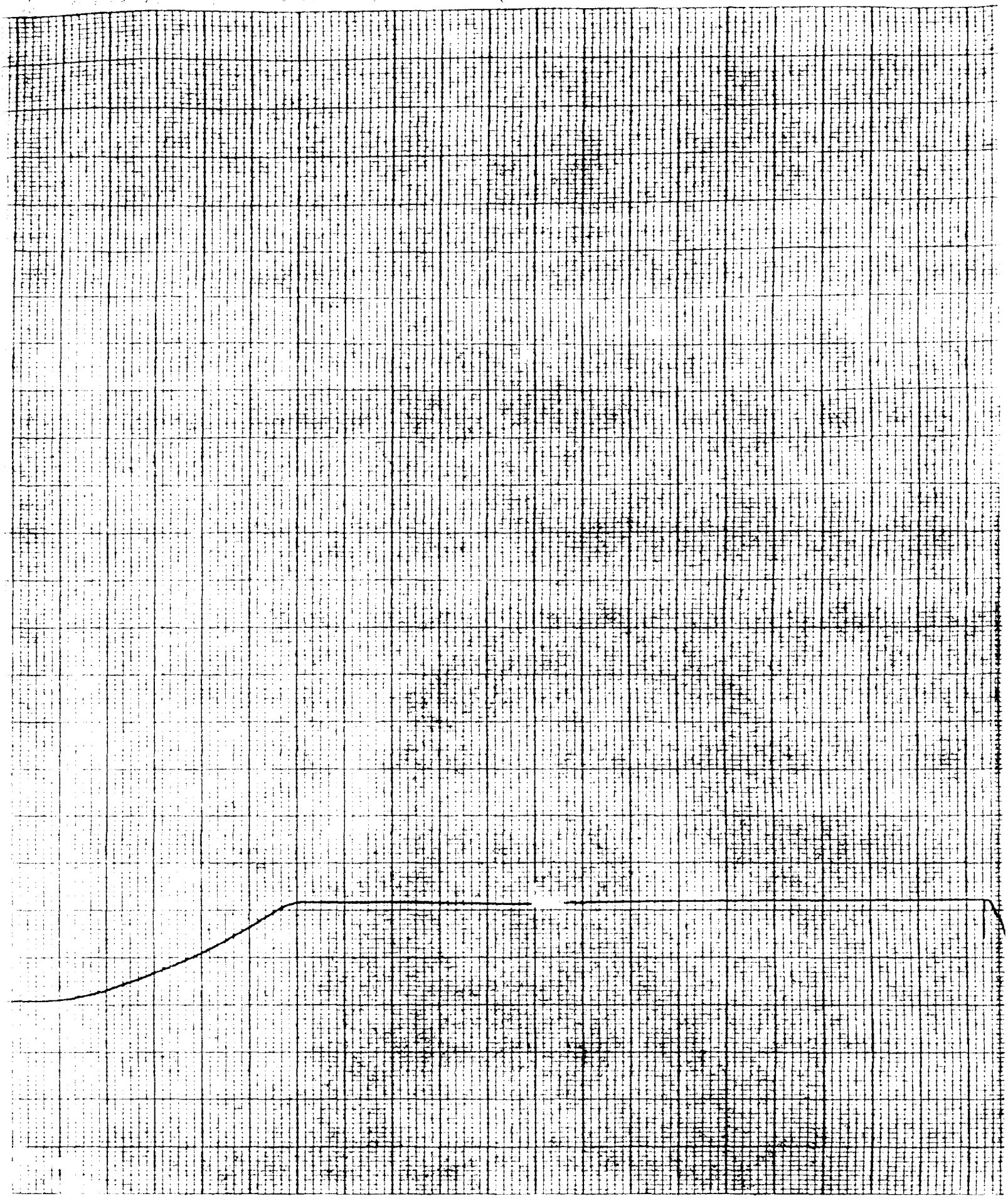
Printed on Recycled Paper

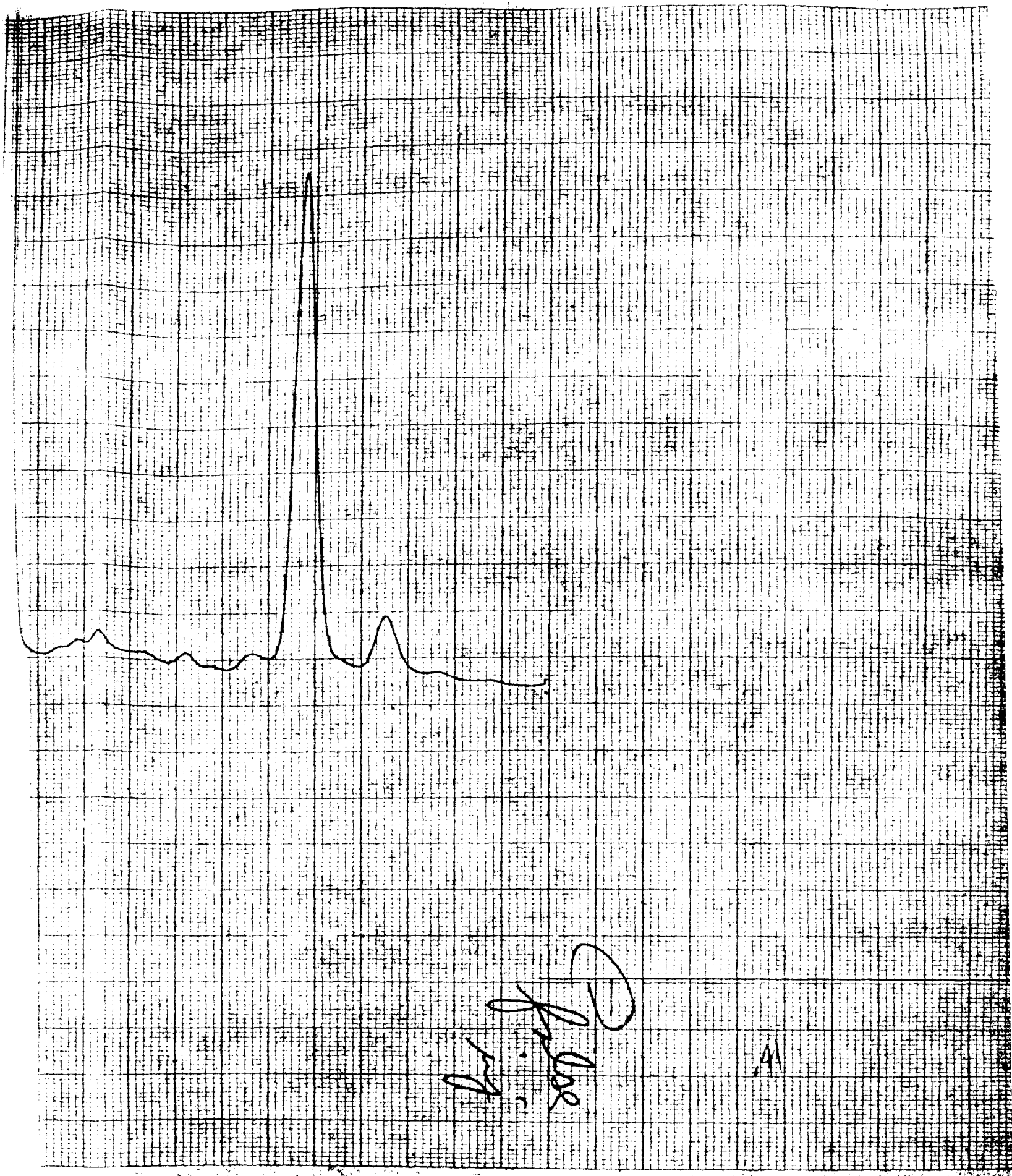




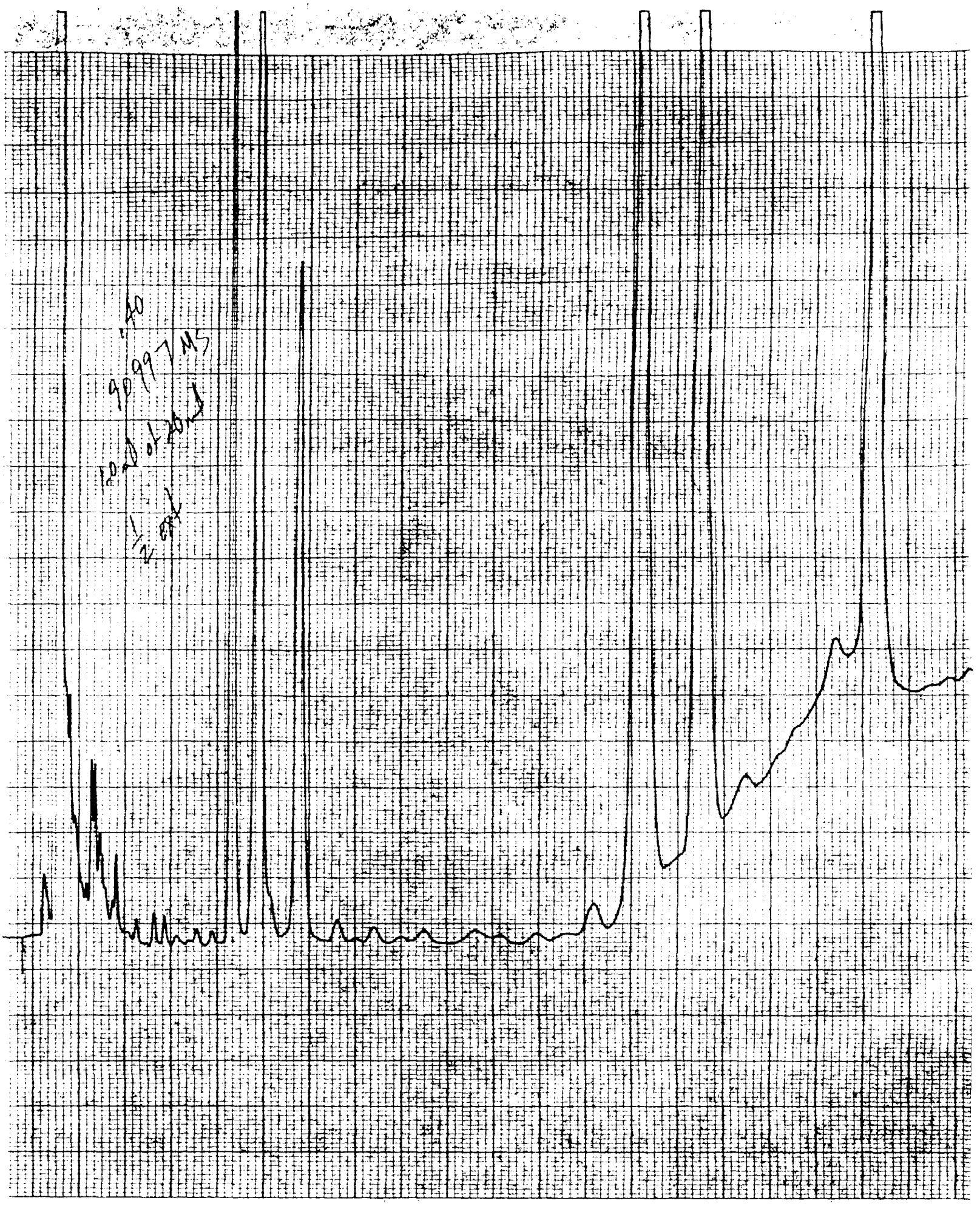


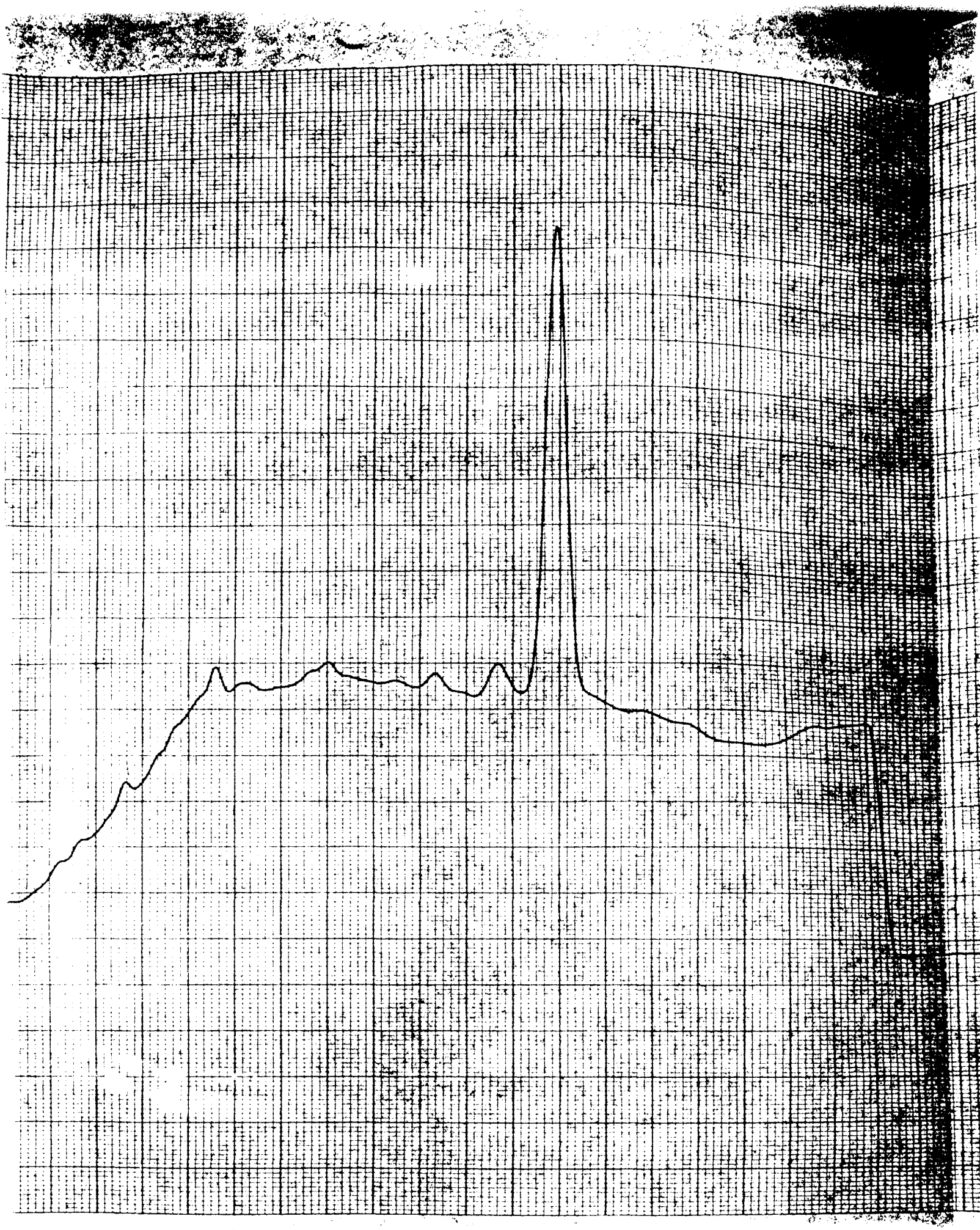


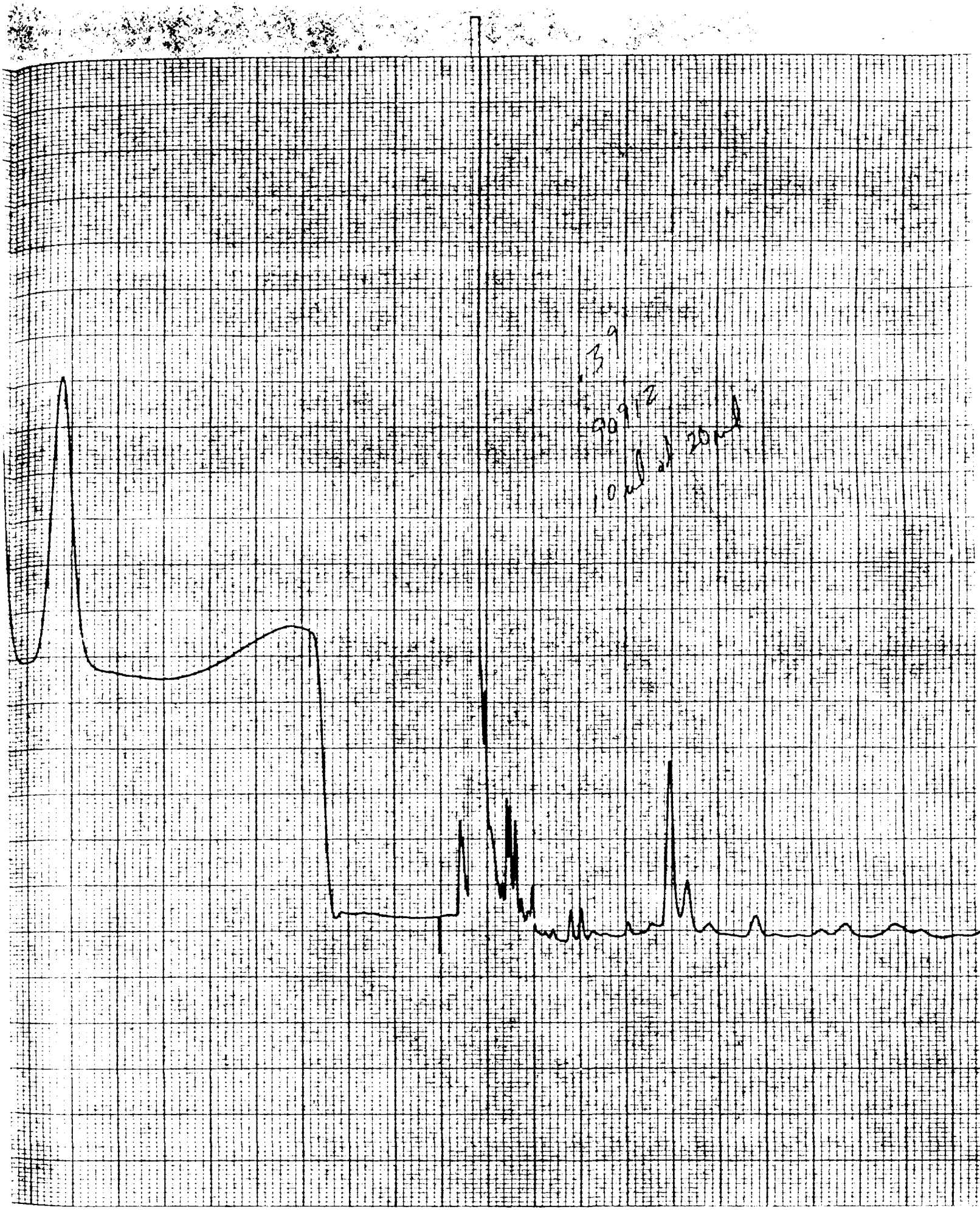


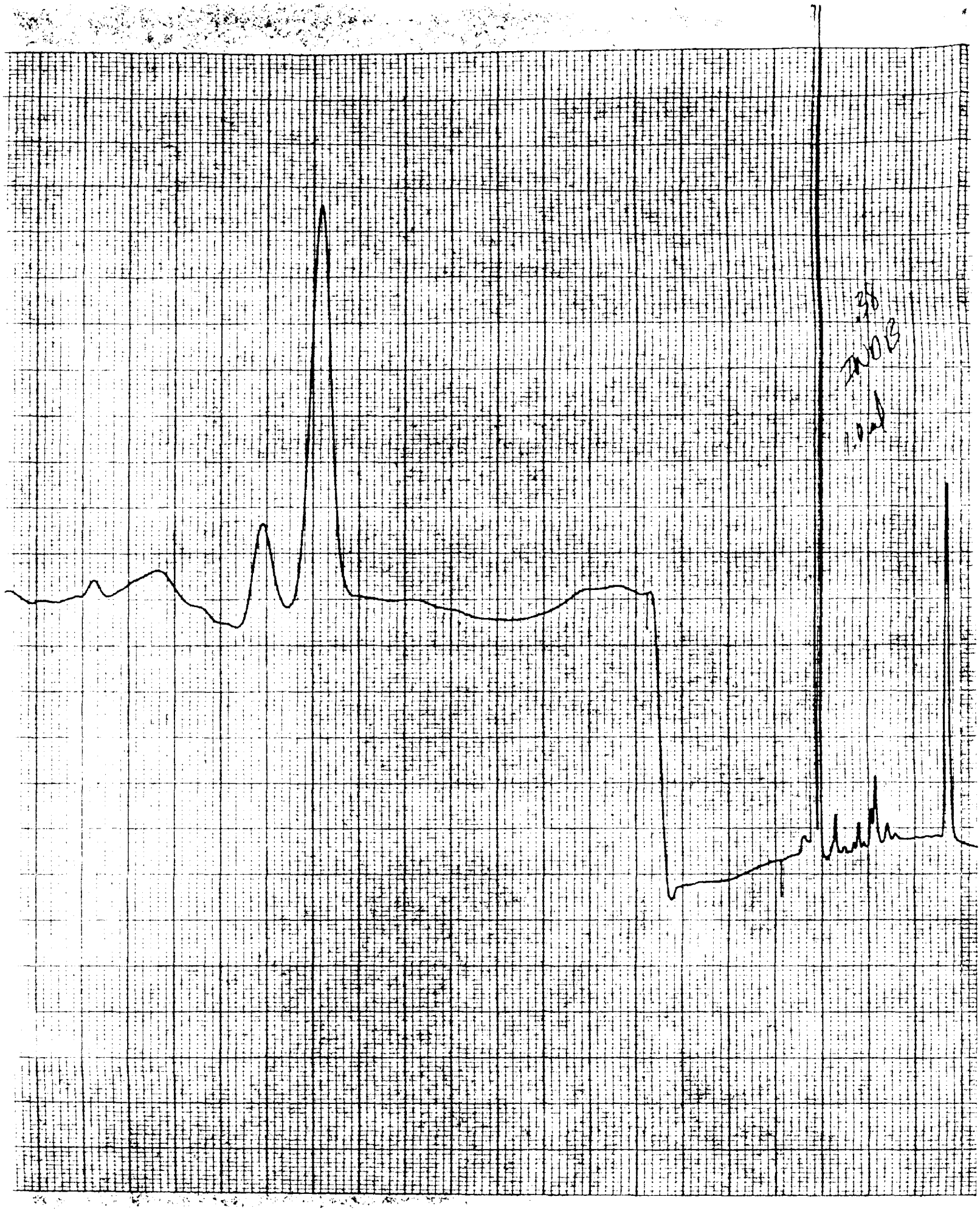


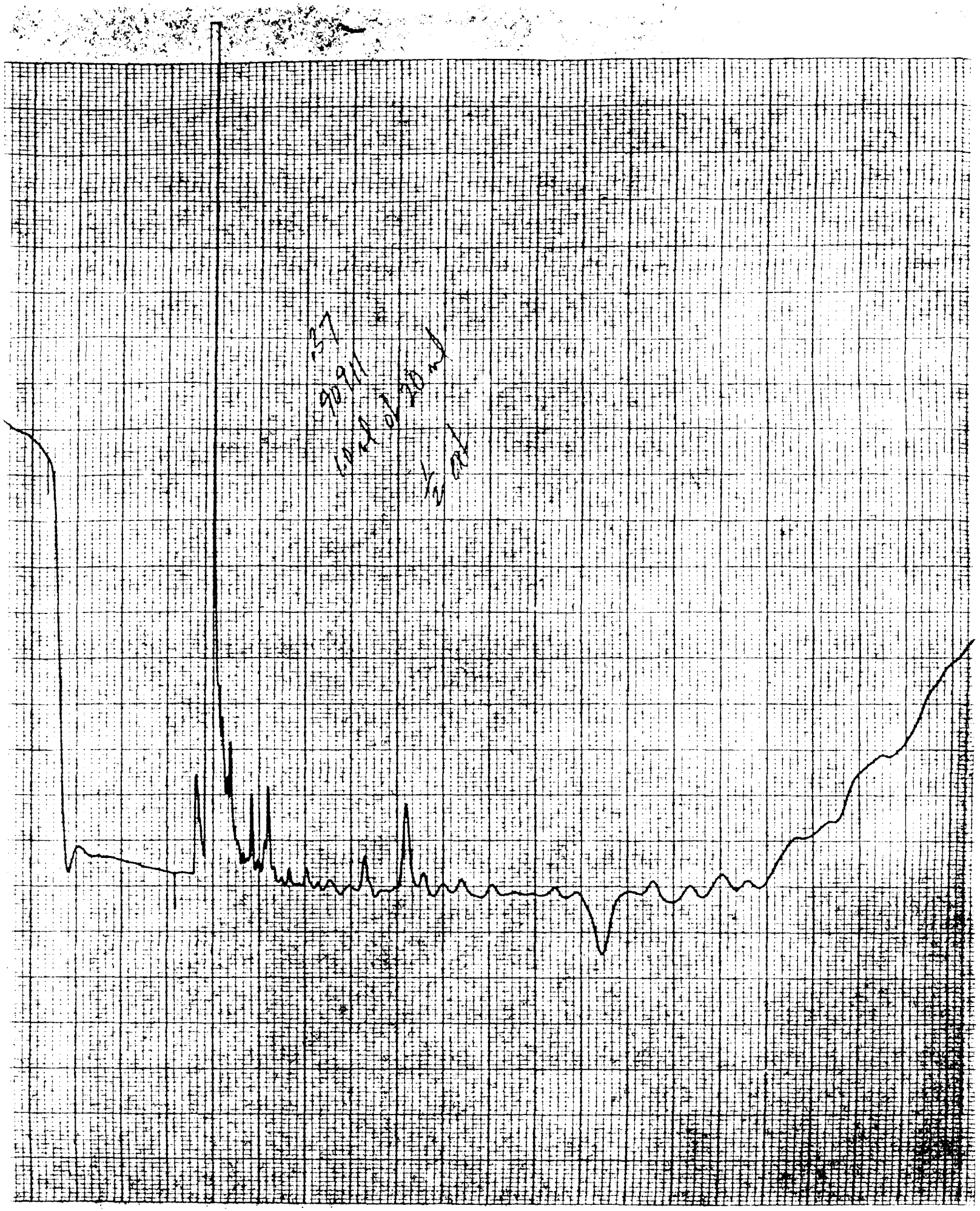
RECORDING CHARTS GRAPHIC CONTROLS CORPORATION BUFFALO, NEW YORK

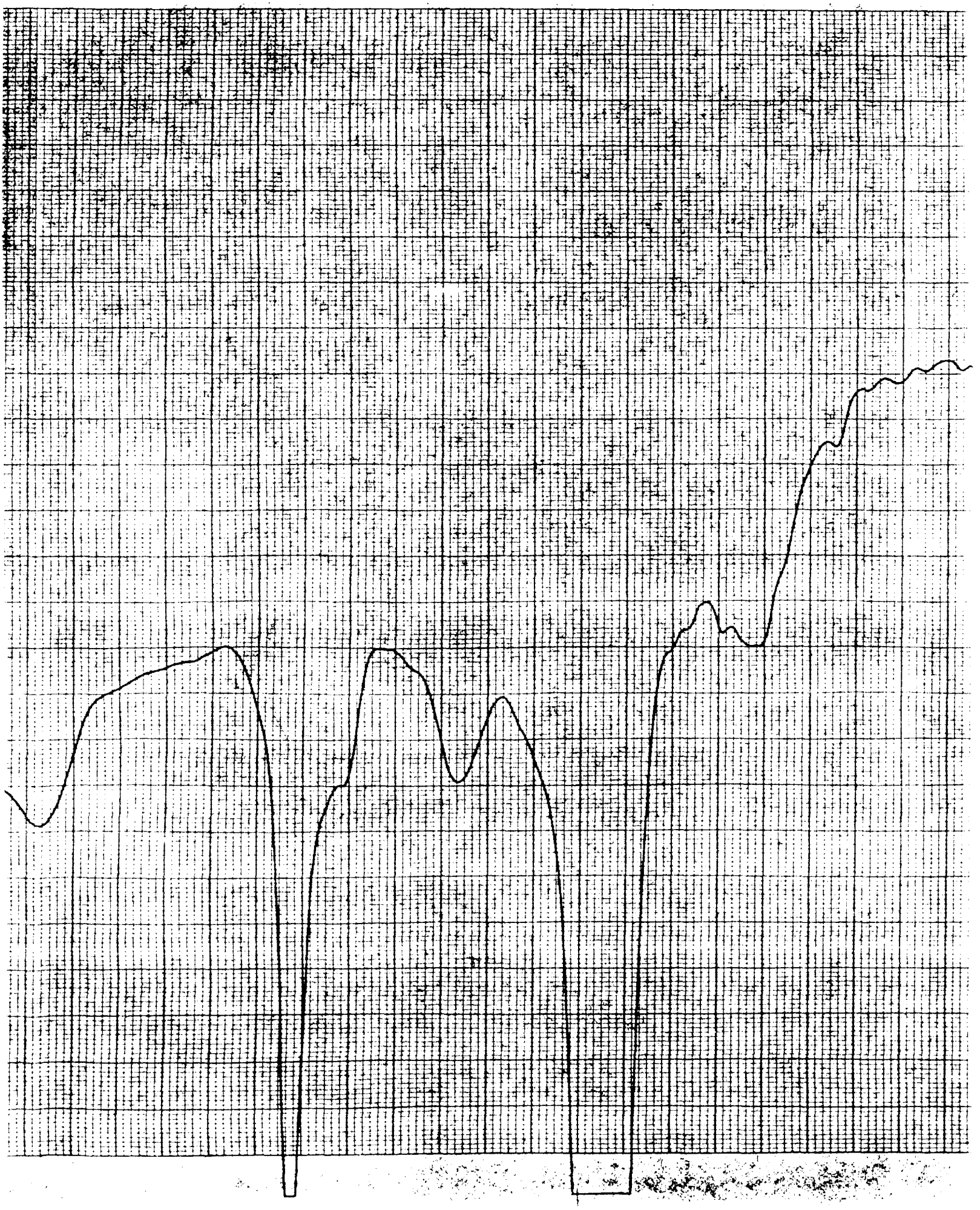

.40
90997 MS
1/2 ext

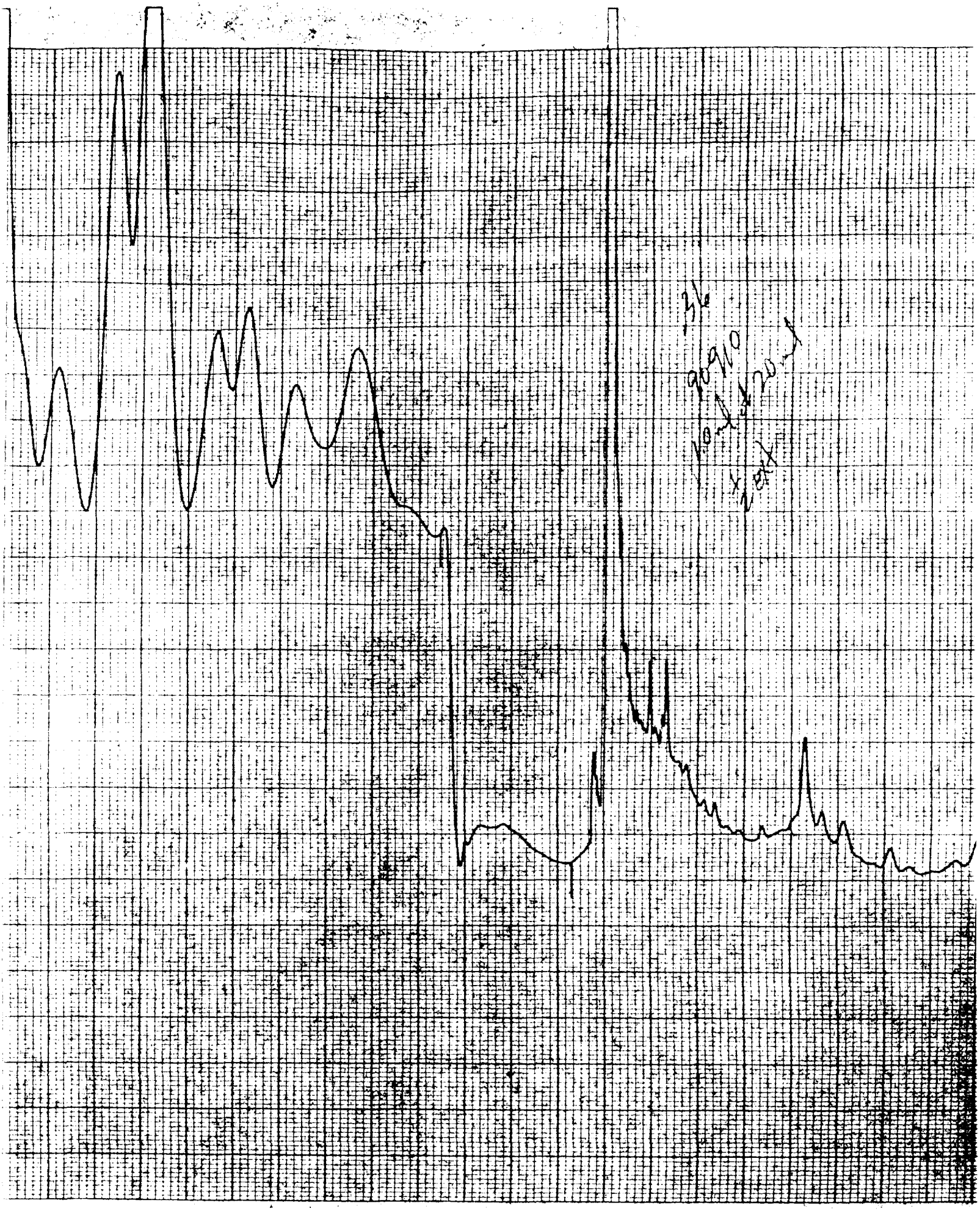


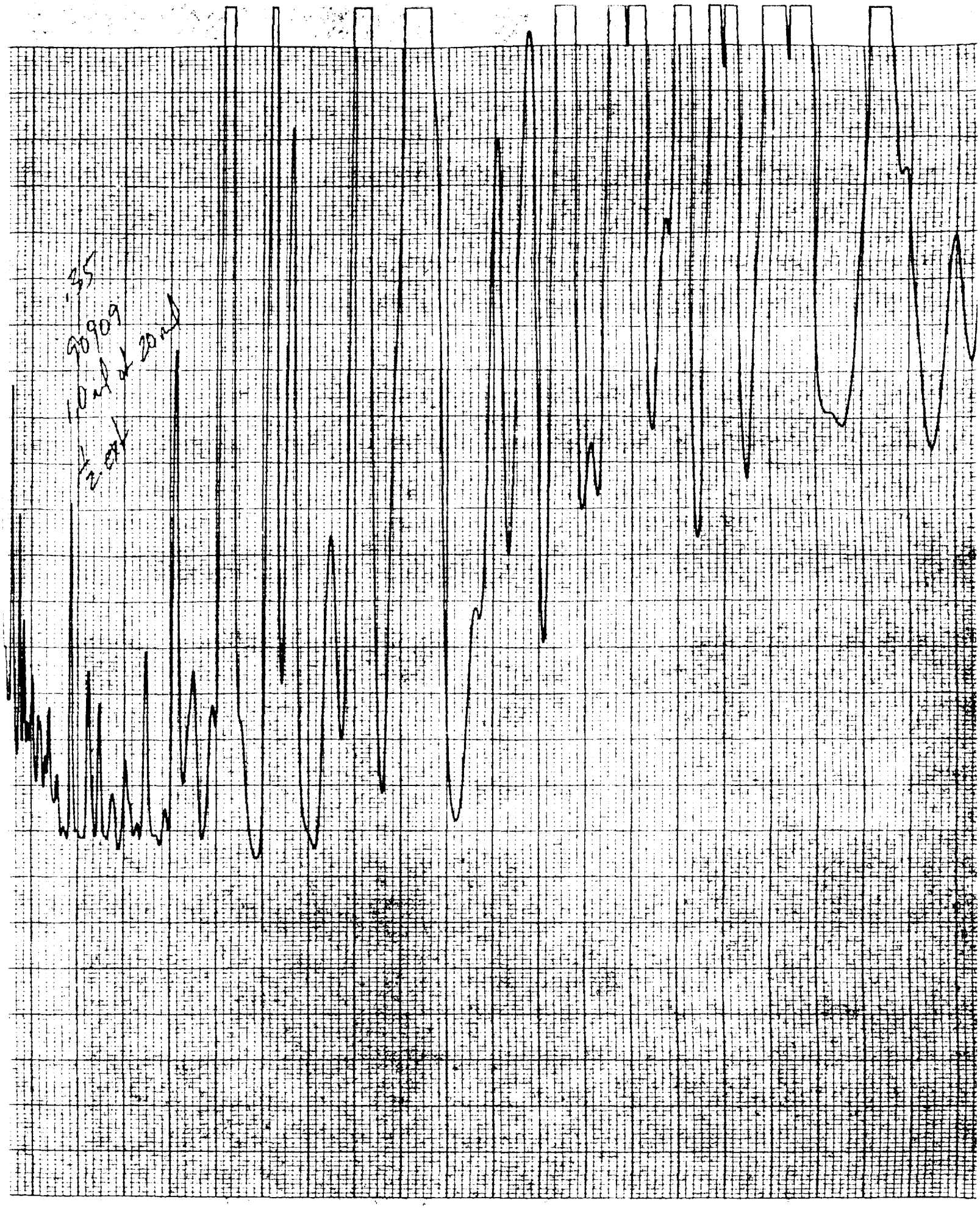

.39
90912
10 ml at 20 ml

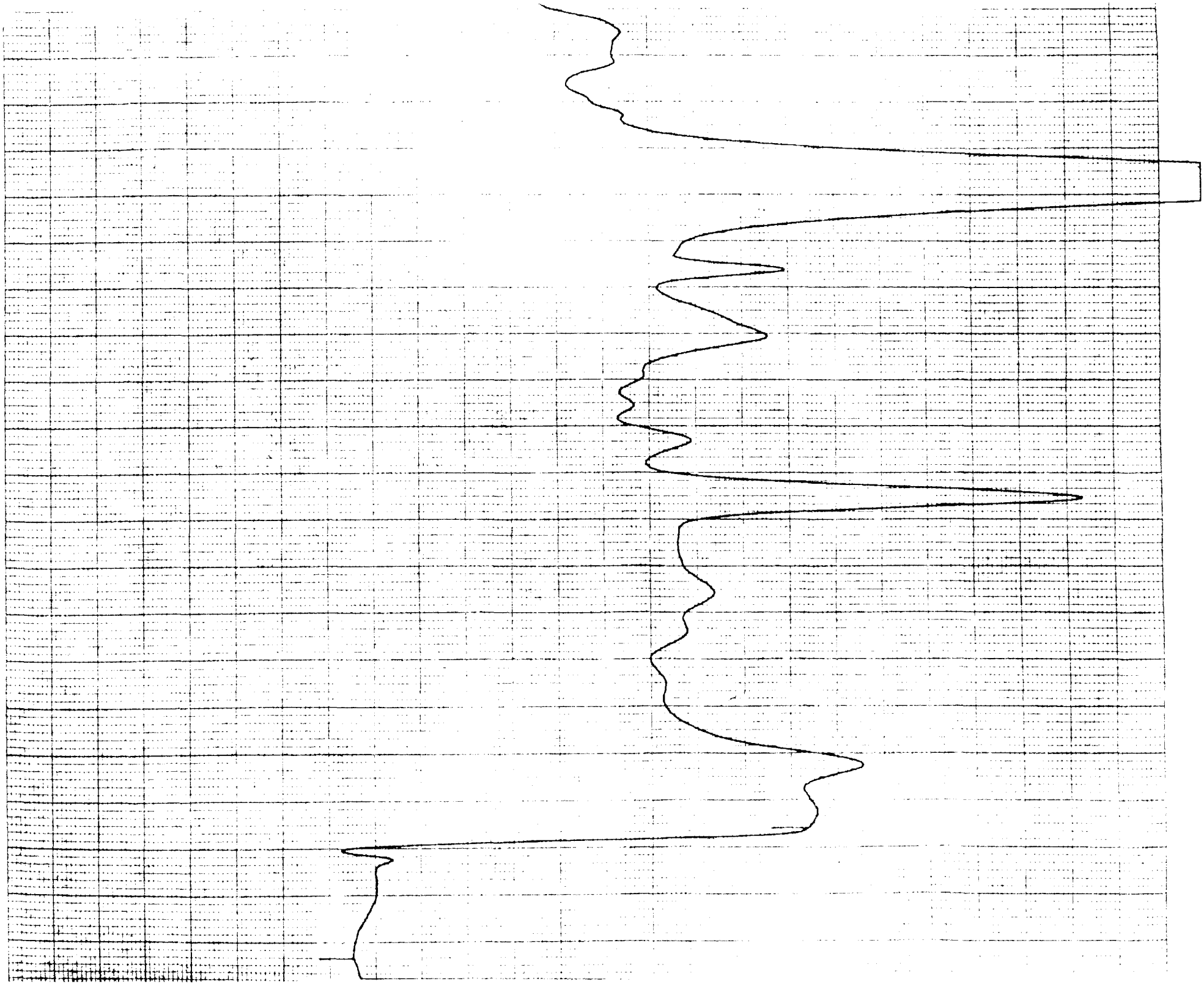

.38
INDB
1.0 ml

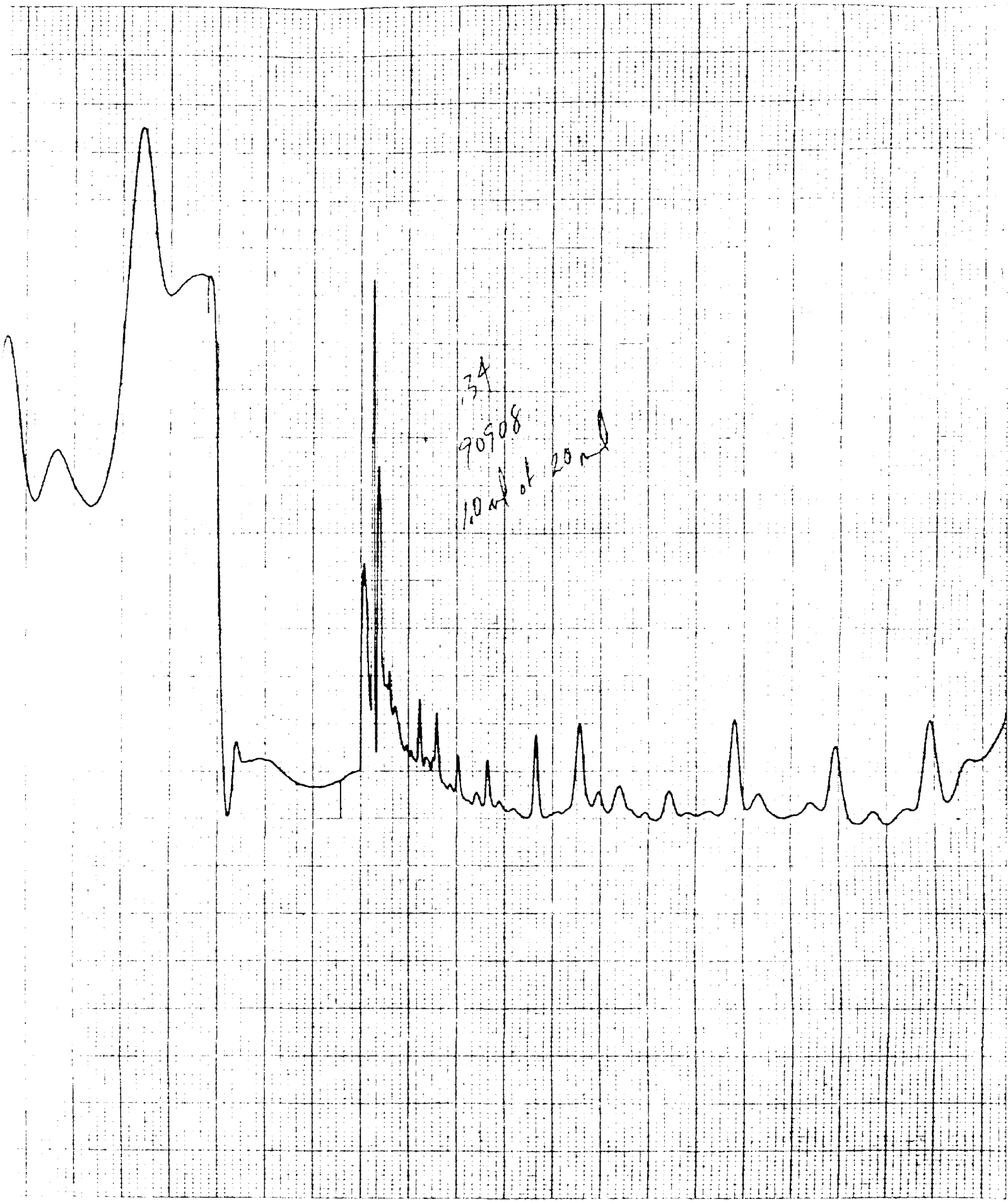

.37
90911
1.0 ml of 20 ml
1/2 ml

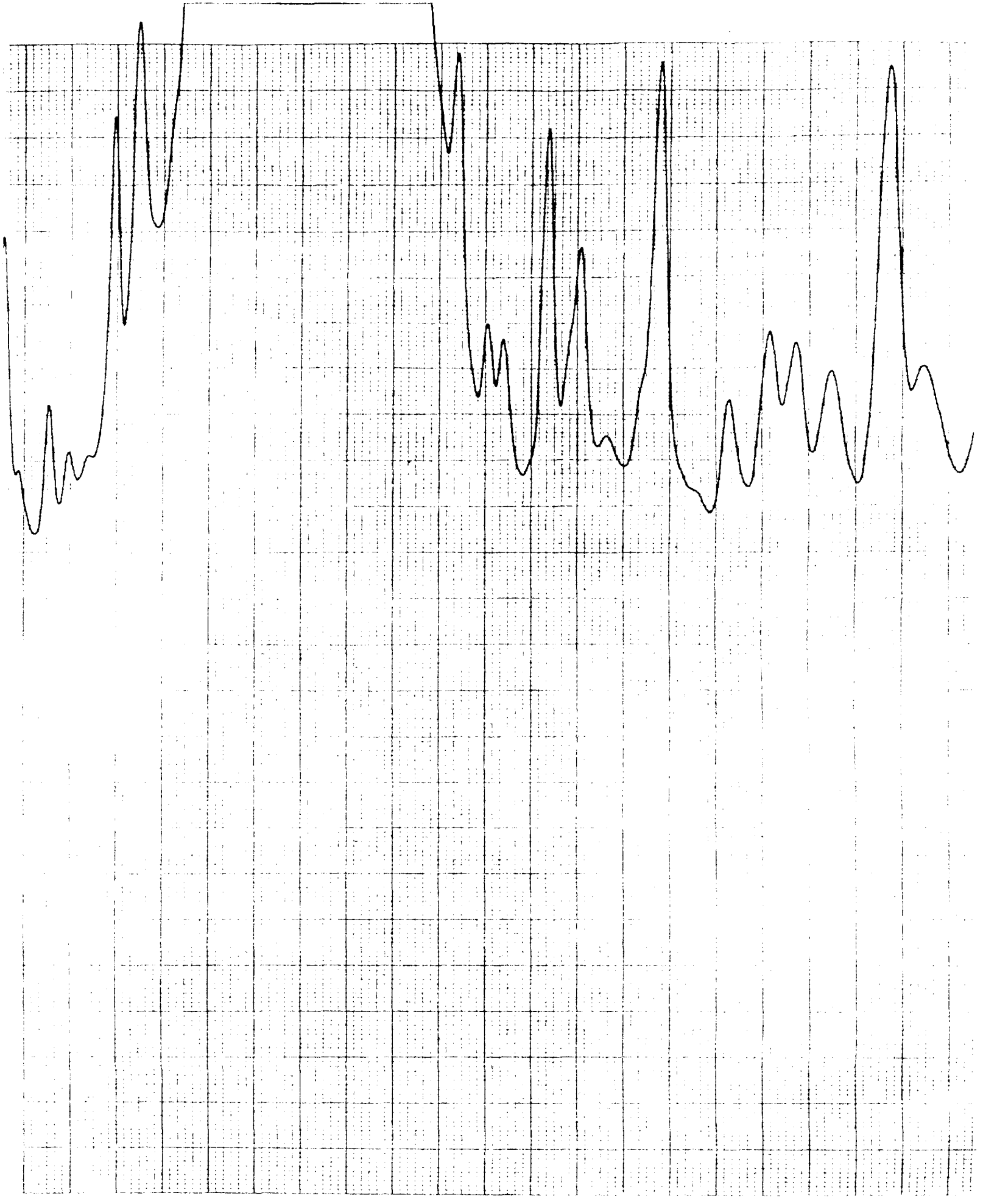


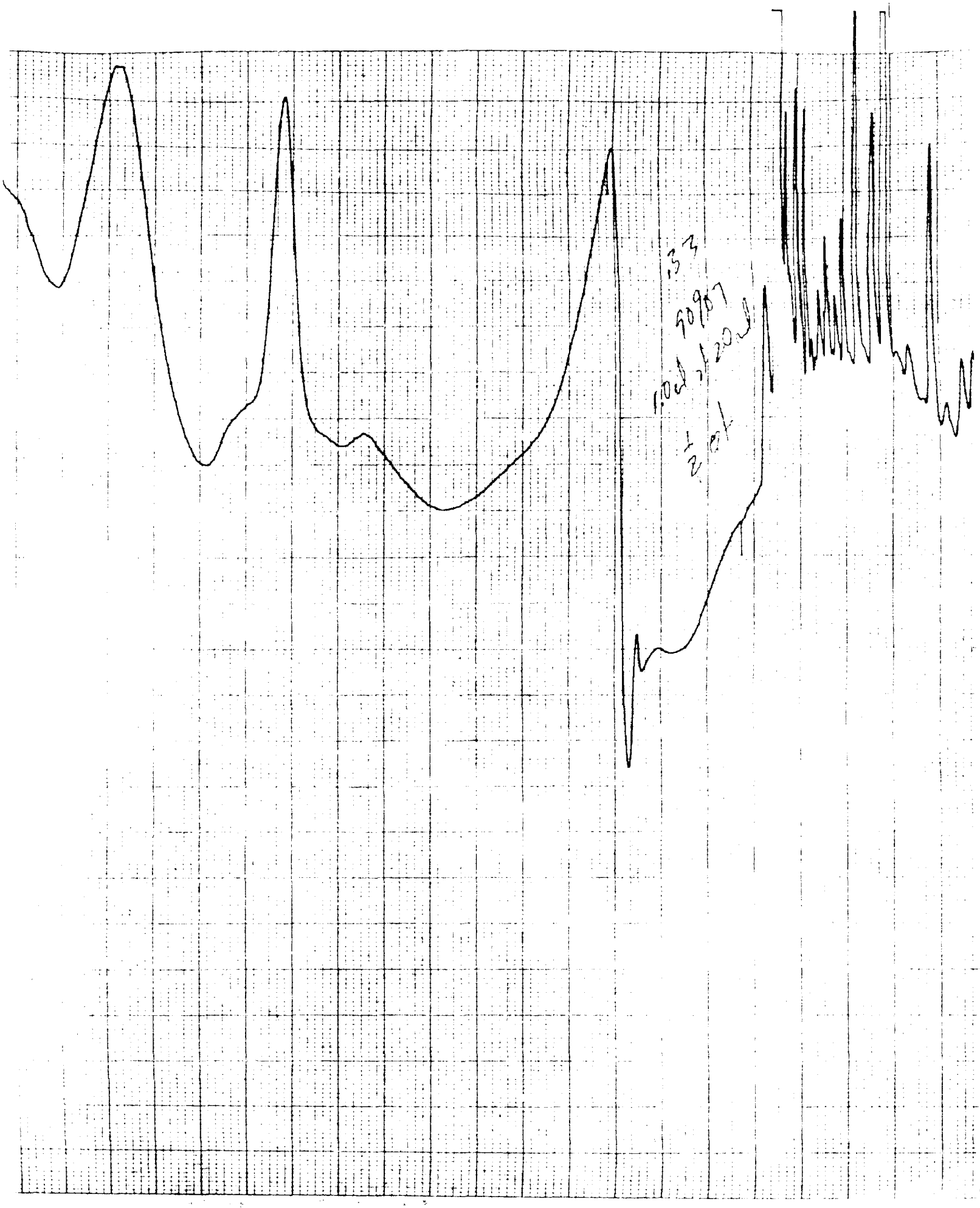

36
90910
10 ml & 20 ml
½ ext

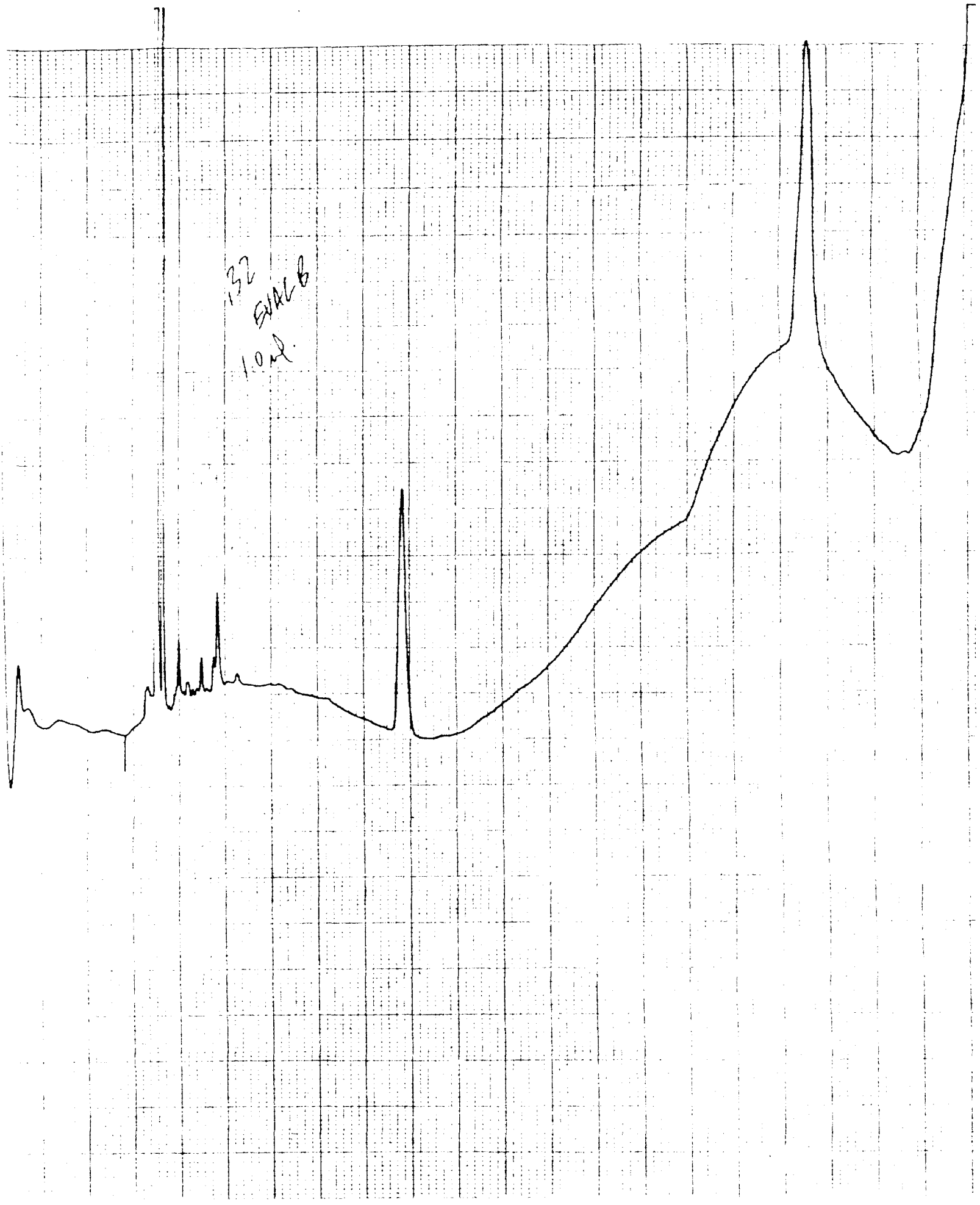

.35
90909
1.0 ml at 20 ml
1/2 ext

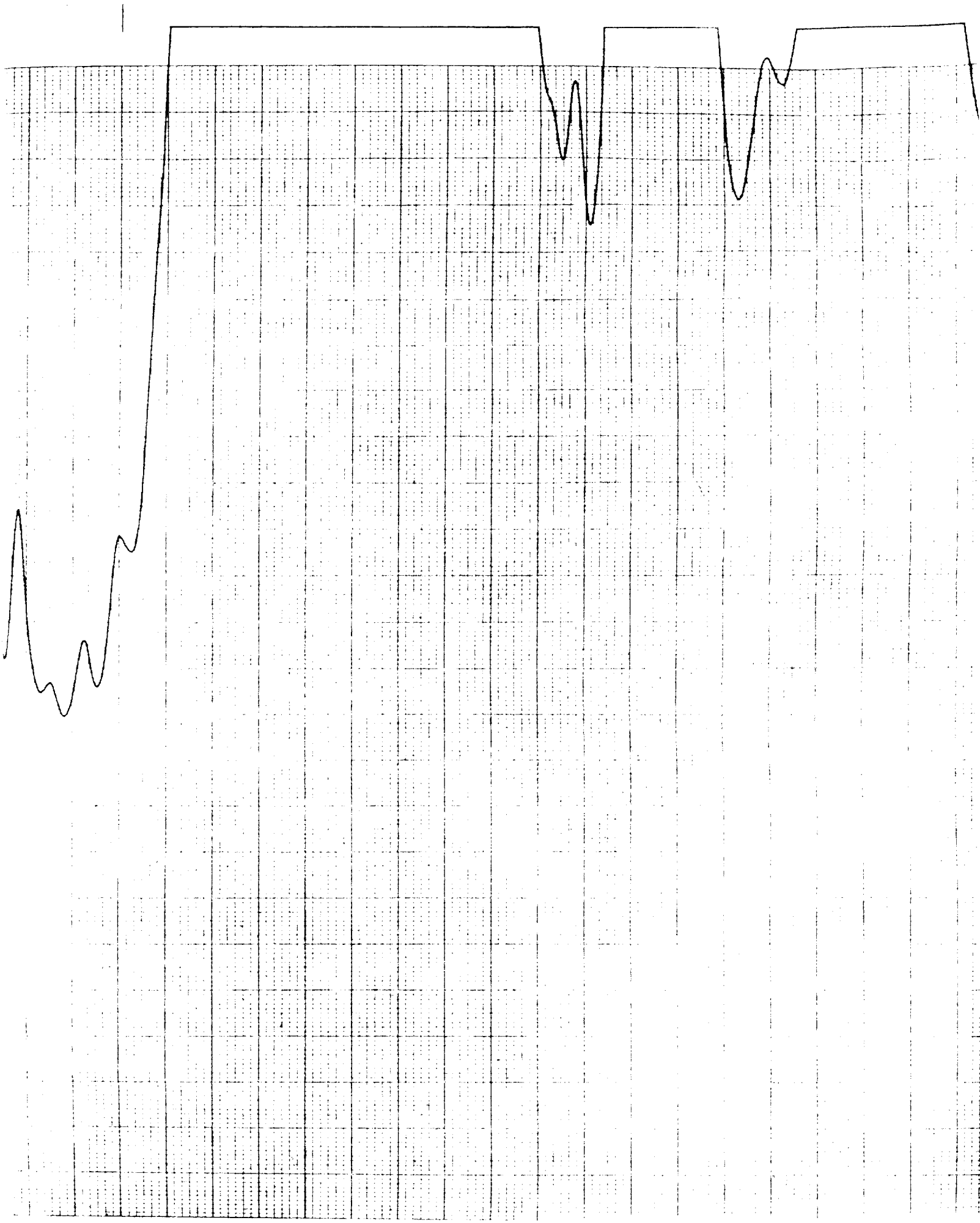


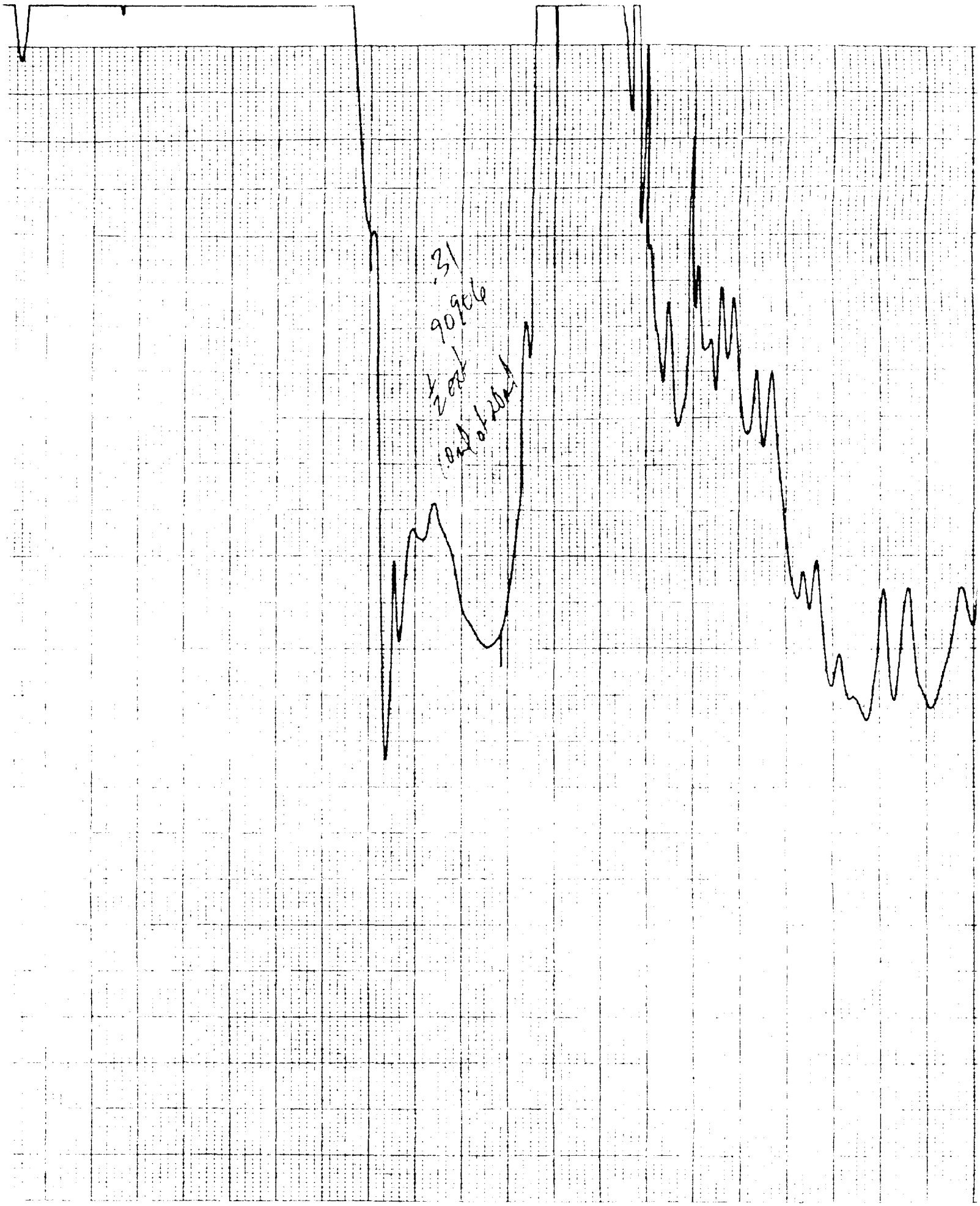

34
90908
1.0 ml of 20 ml

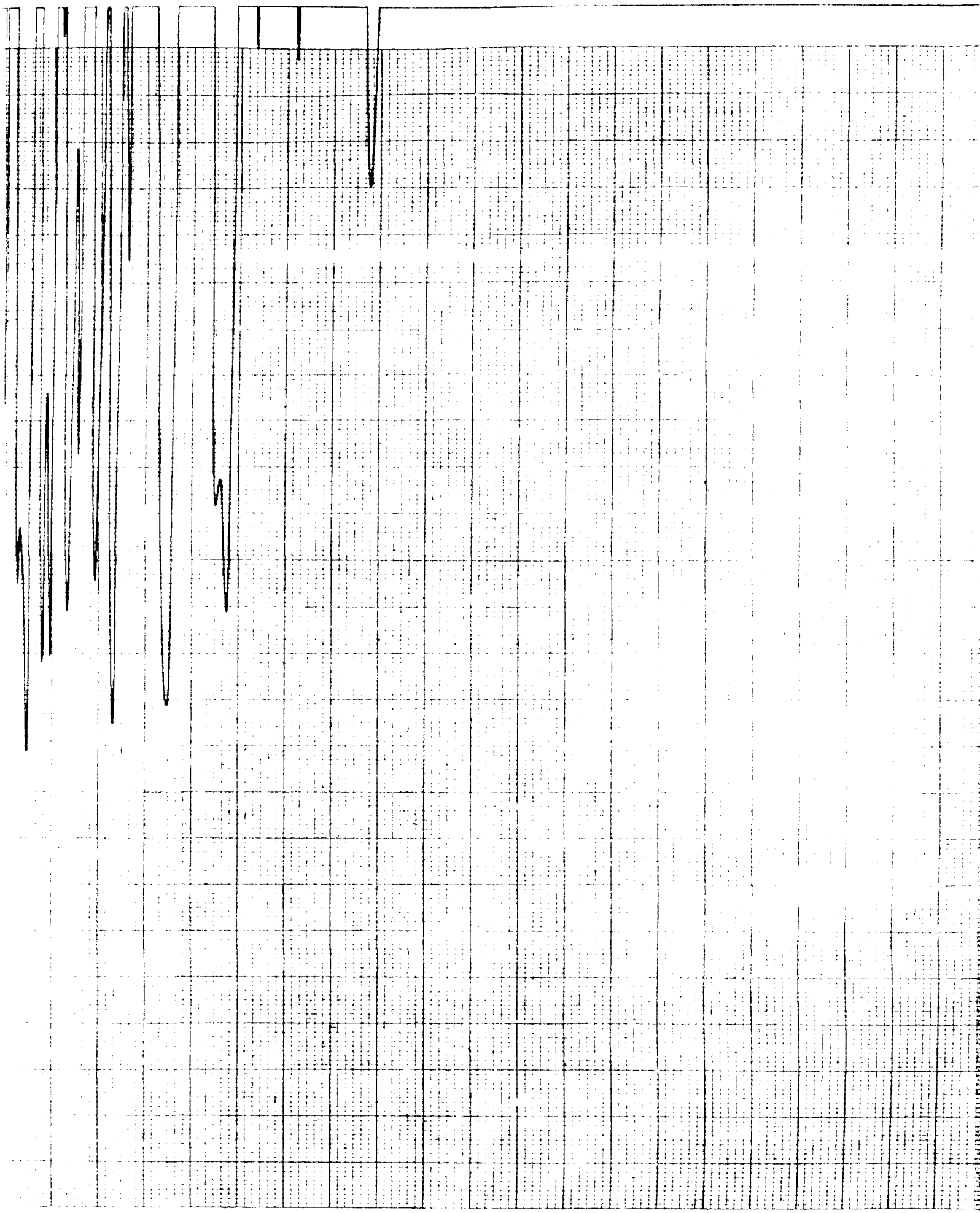


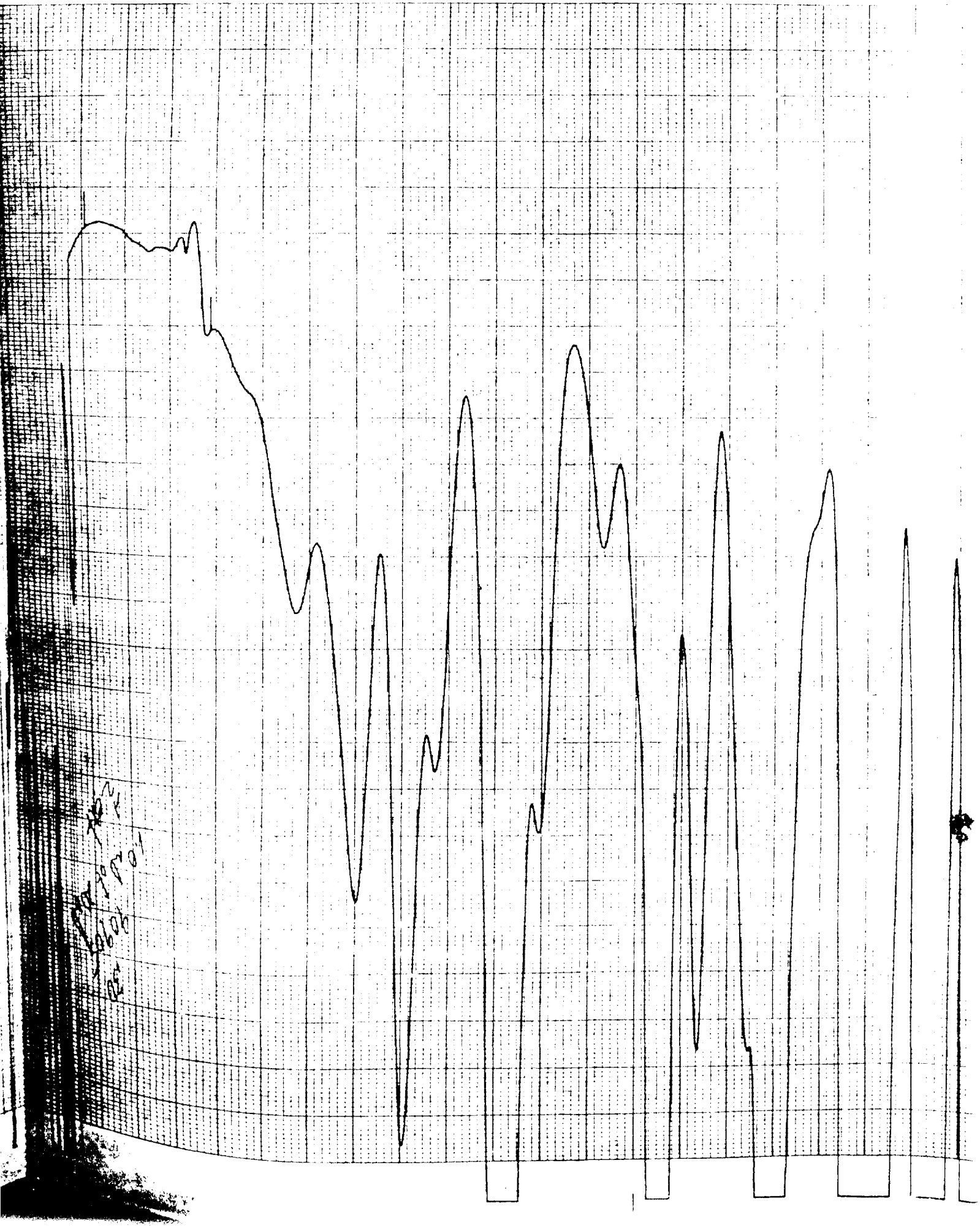

.33
90907
1.0 at 20 ml
1/2 est

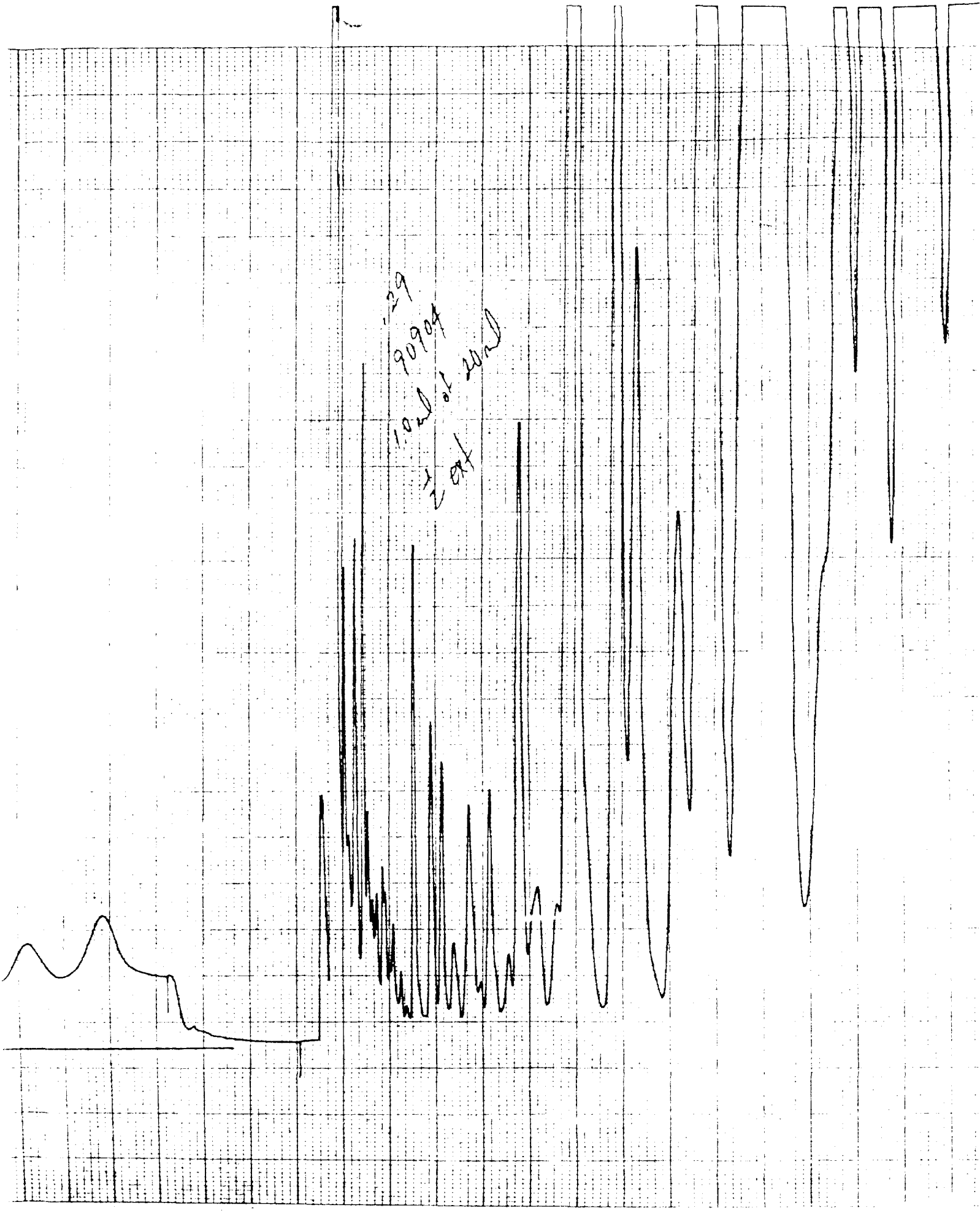

132
EVALB
1.0 ml

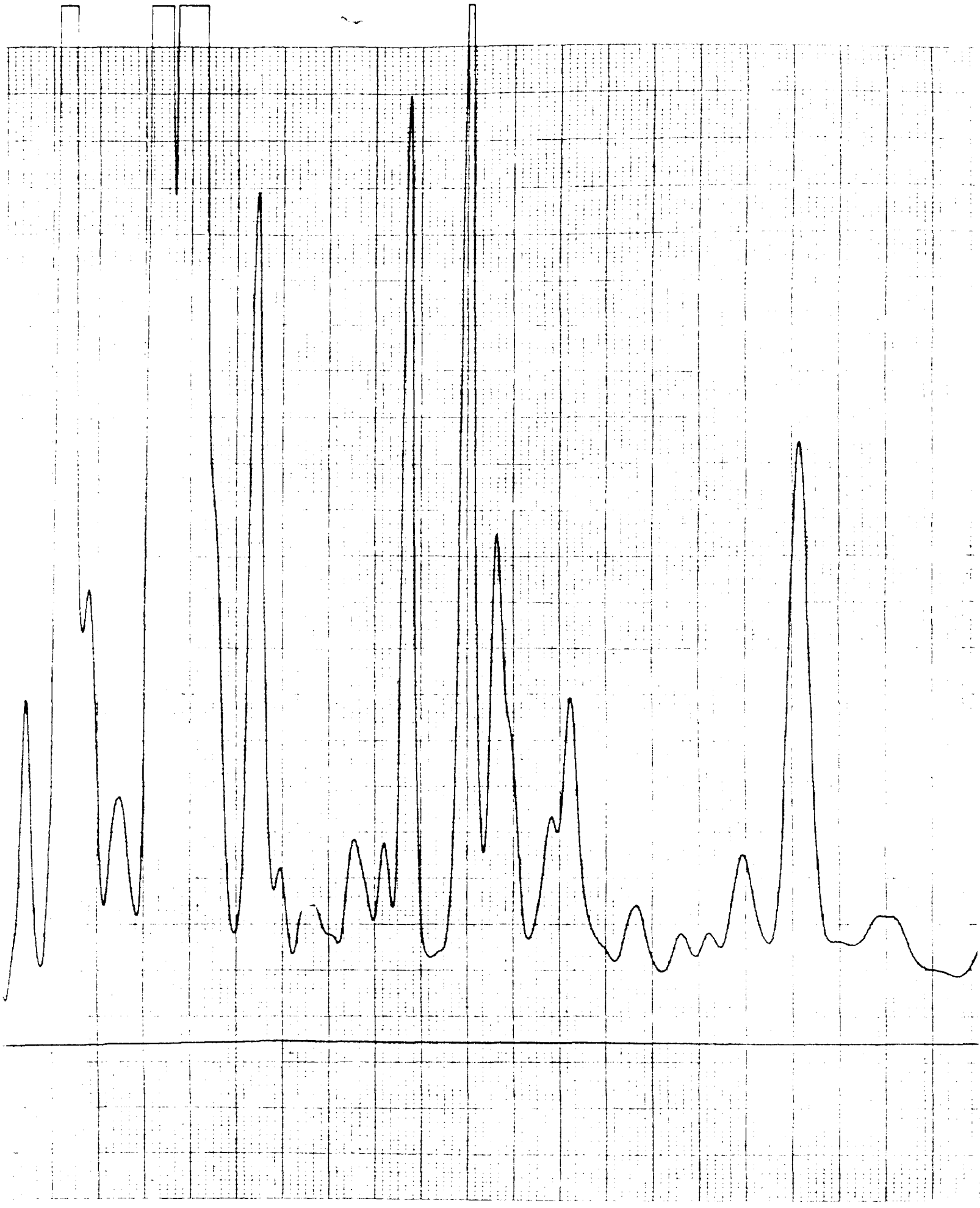


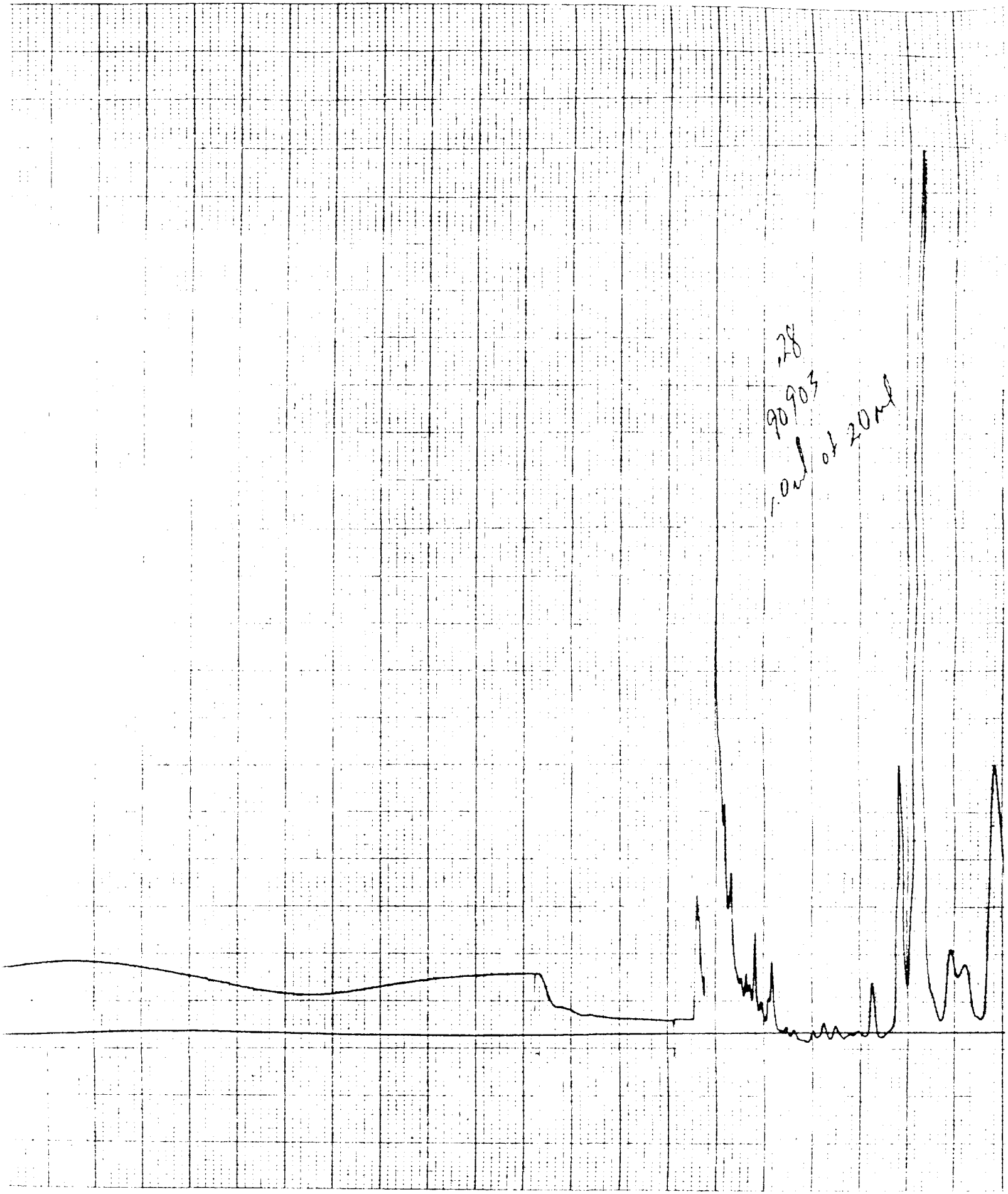

.31
90906
½ ext
10 mil at 20 mil

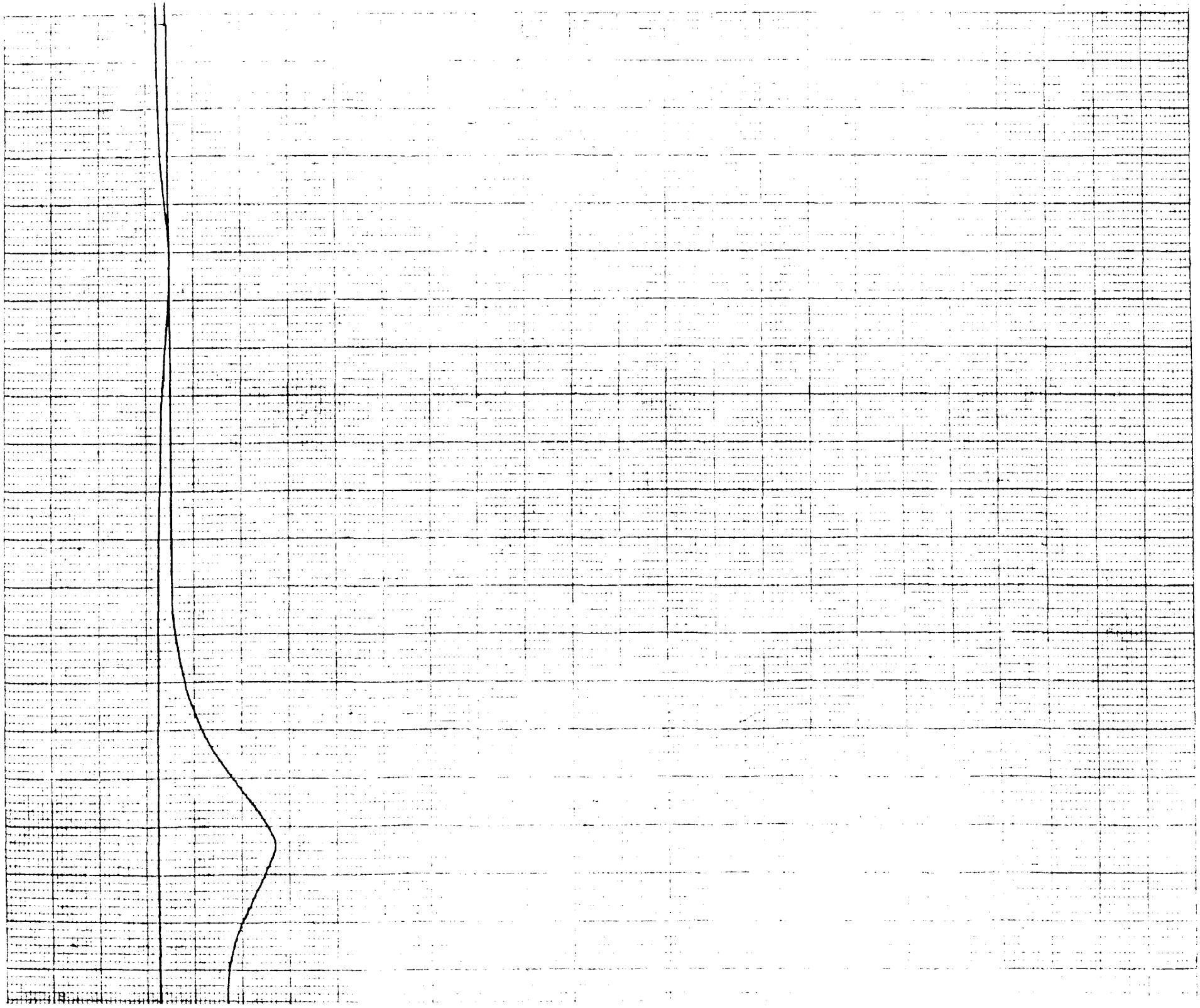


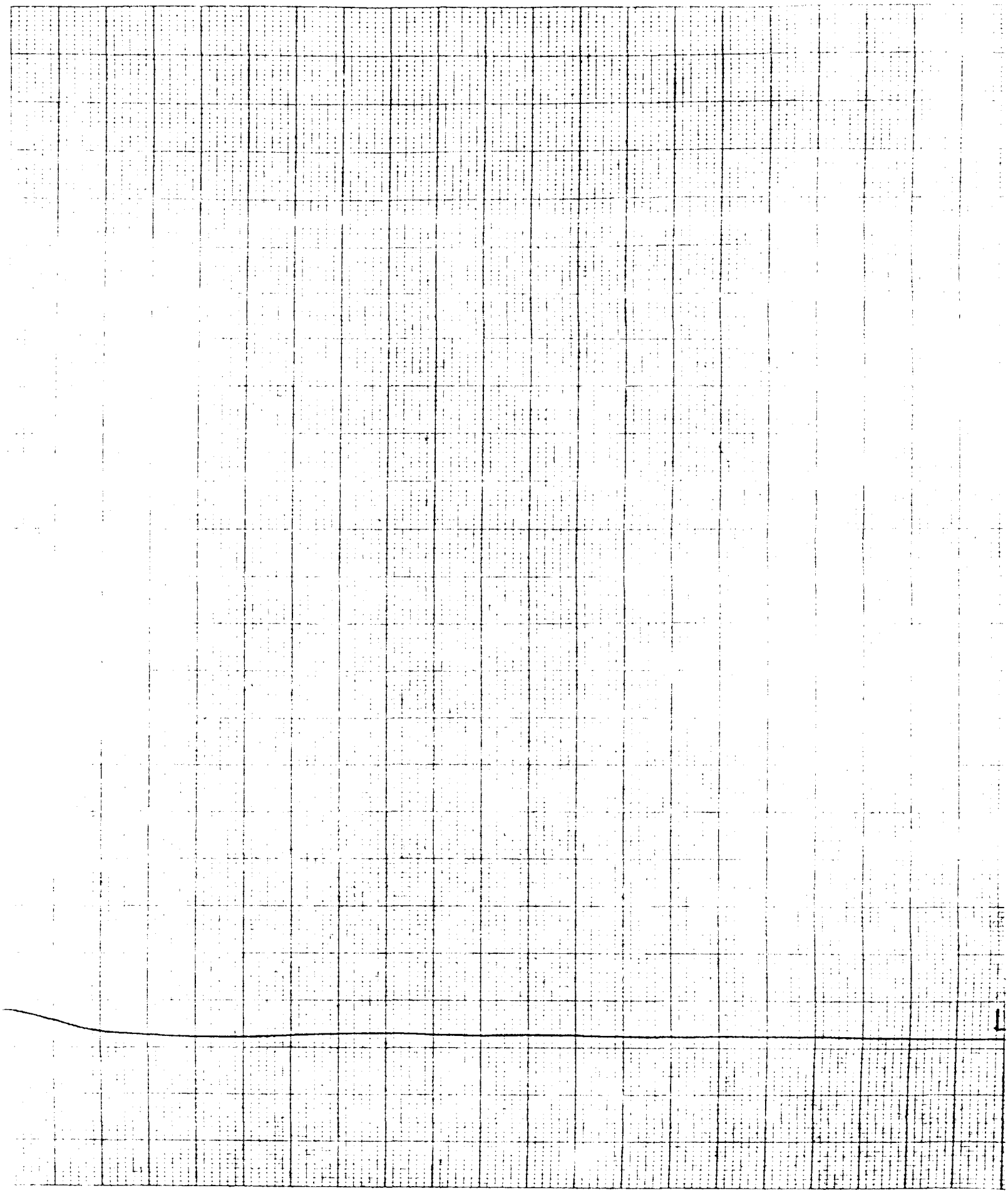


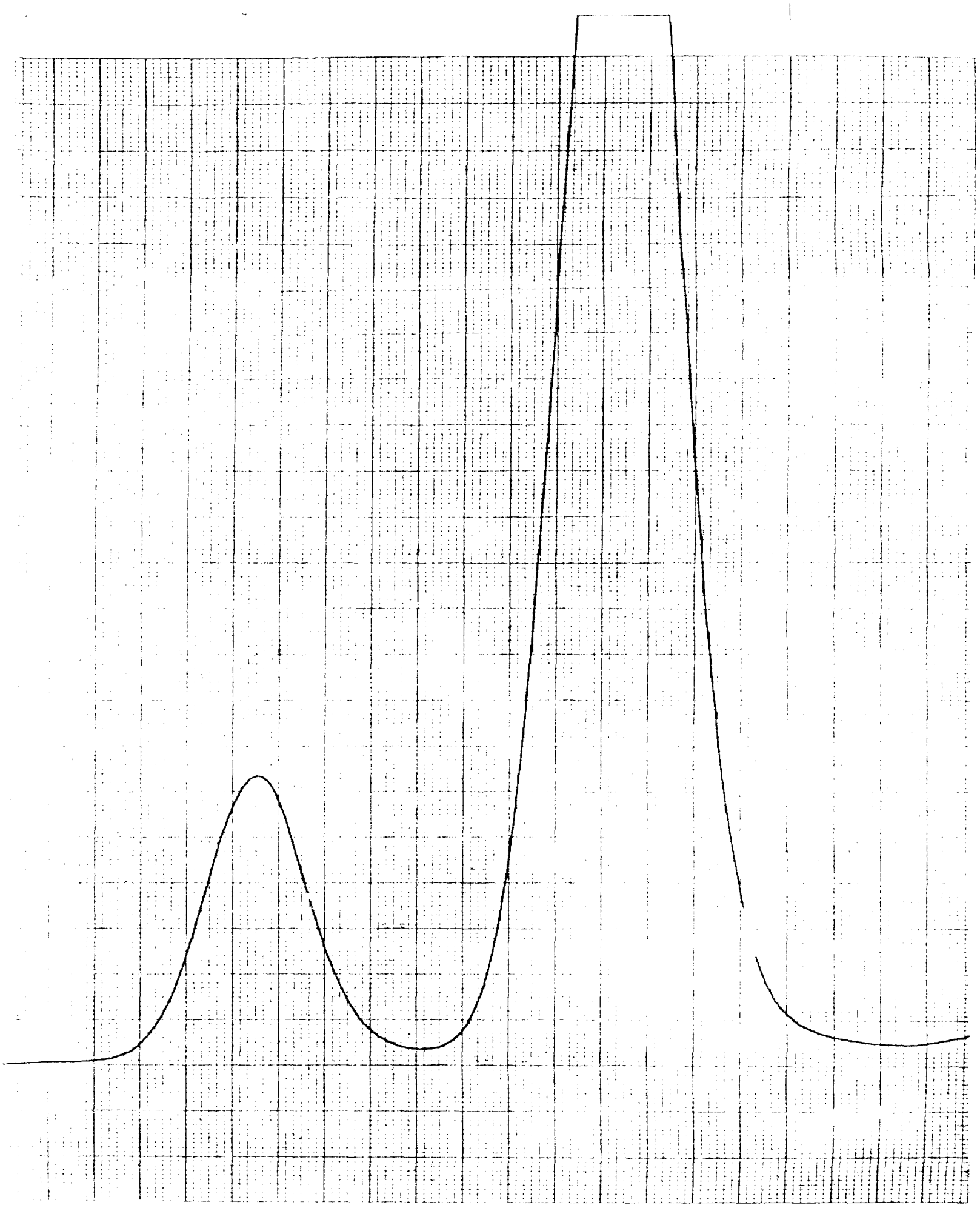

29
90904
1.0 ml of 20 ml
1/2 ext

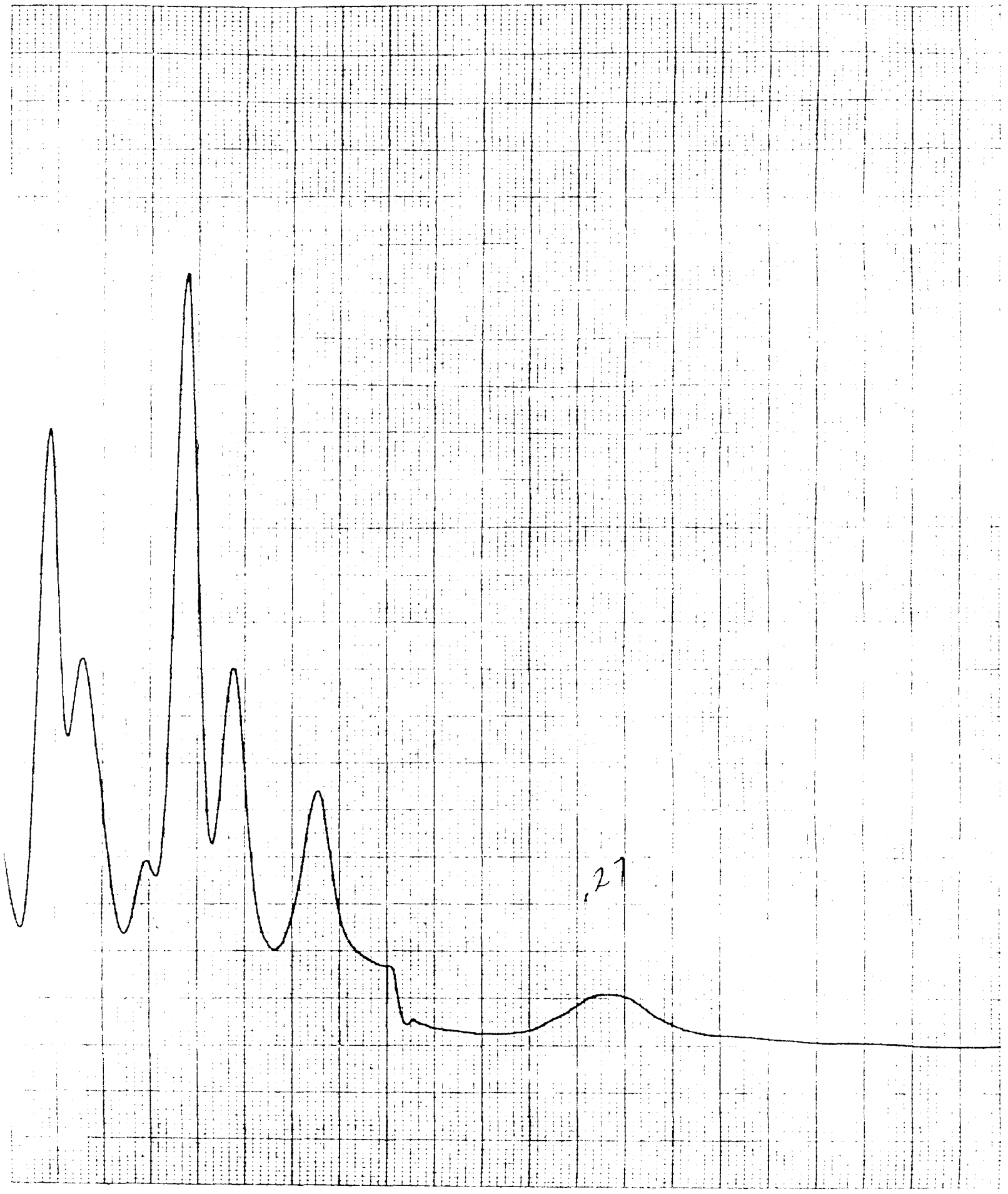


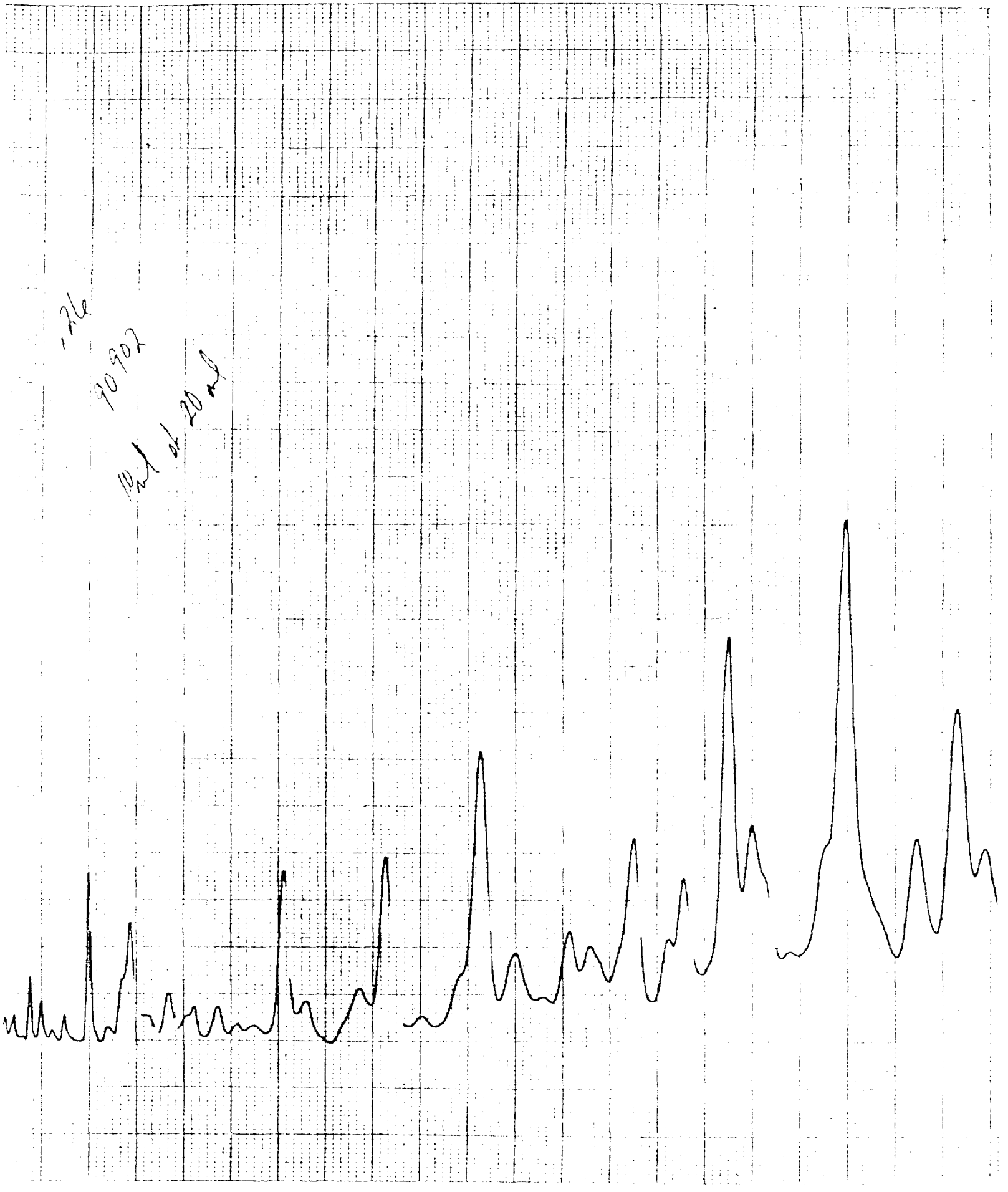

,28
90903
,0ml of 20ml



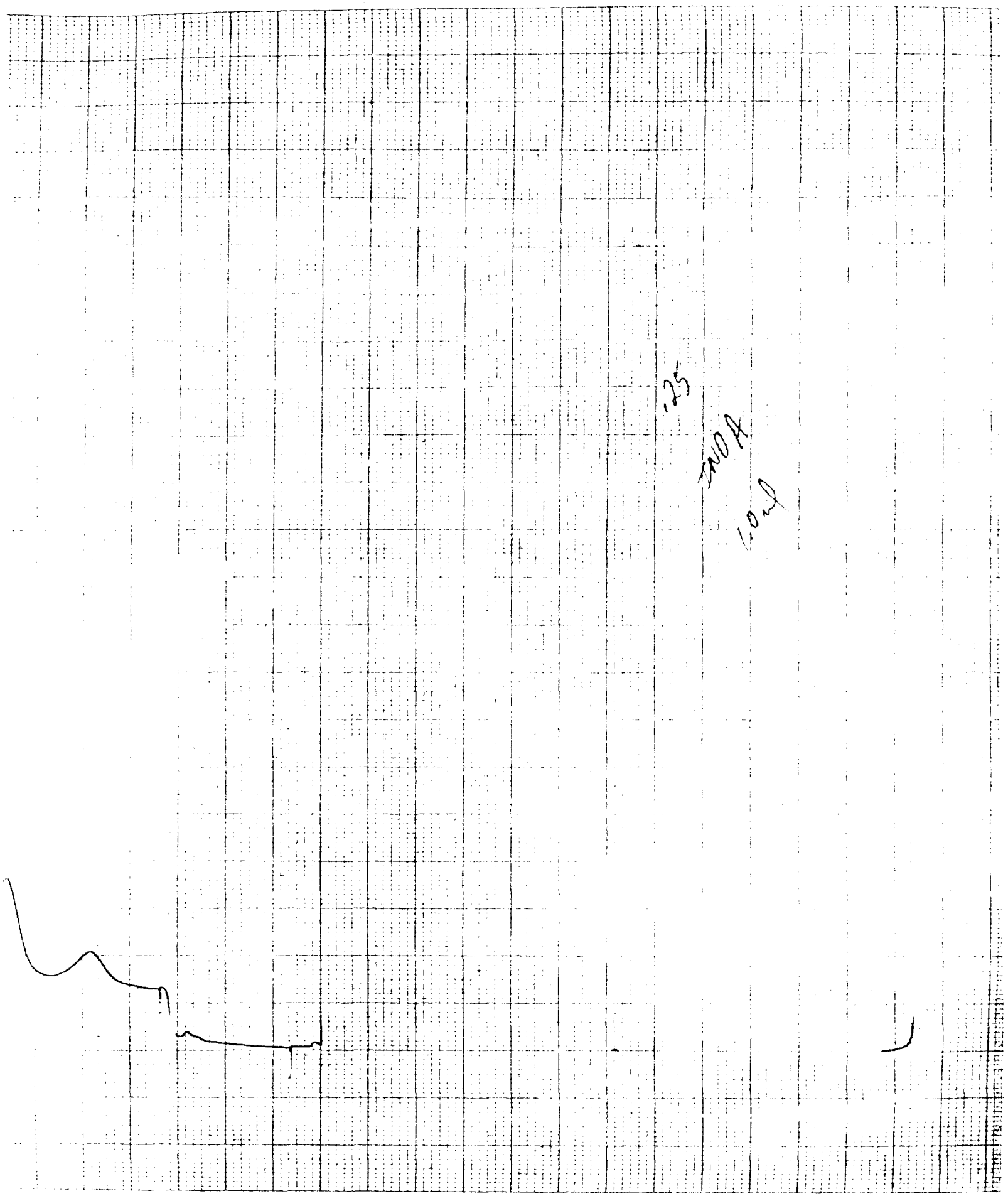


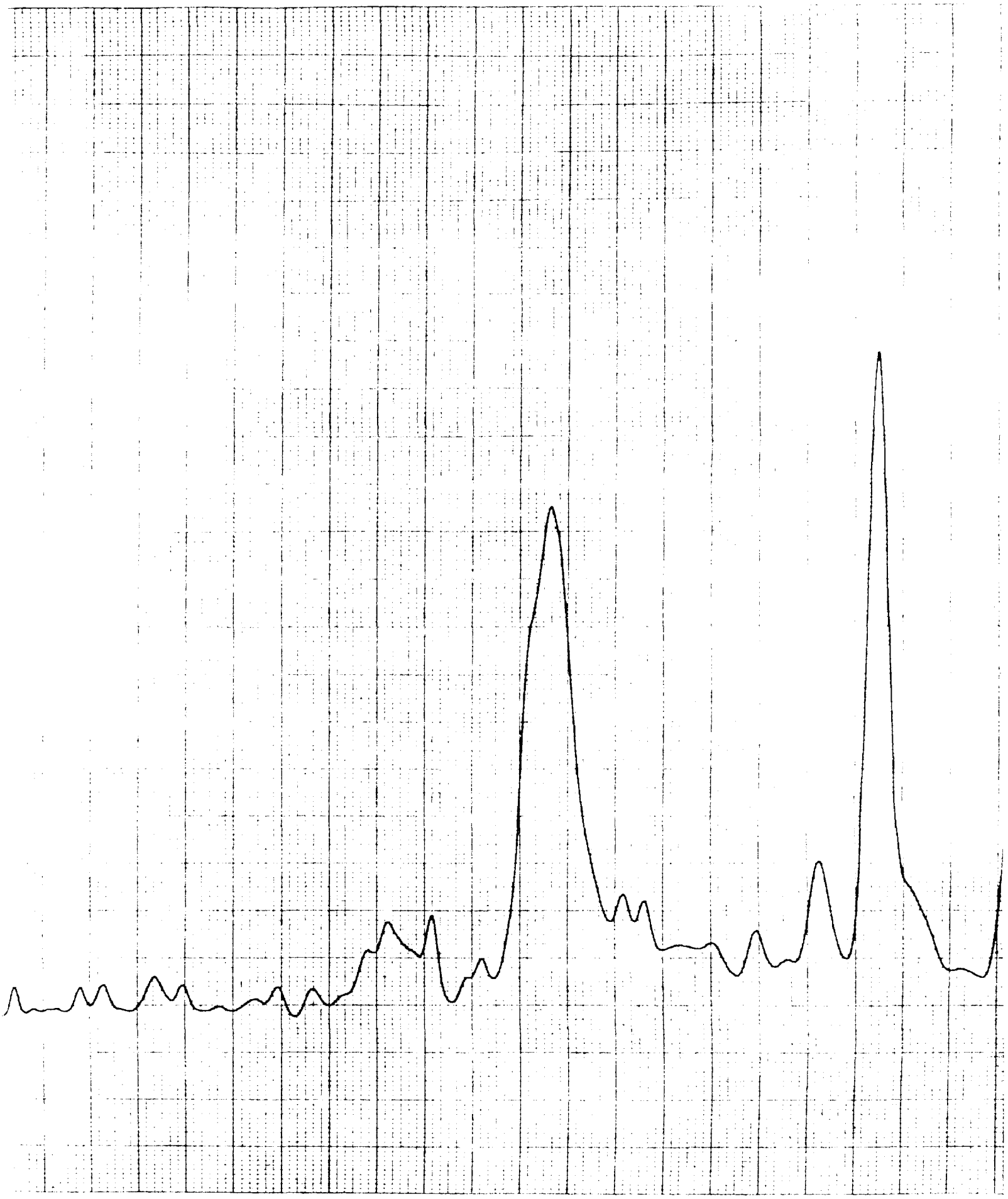


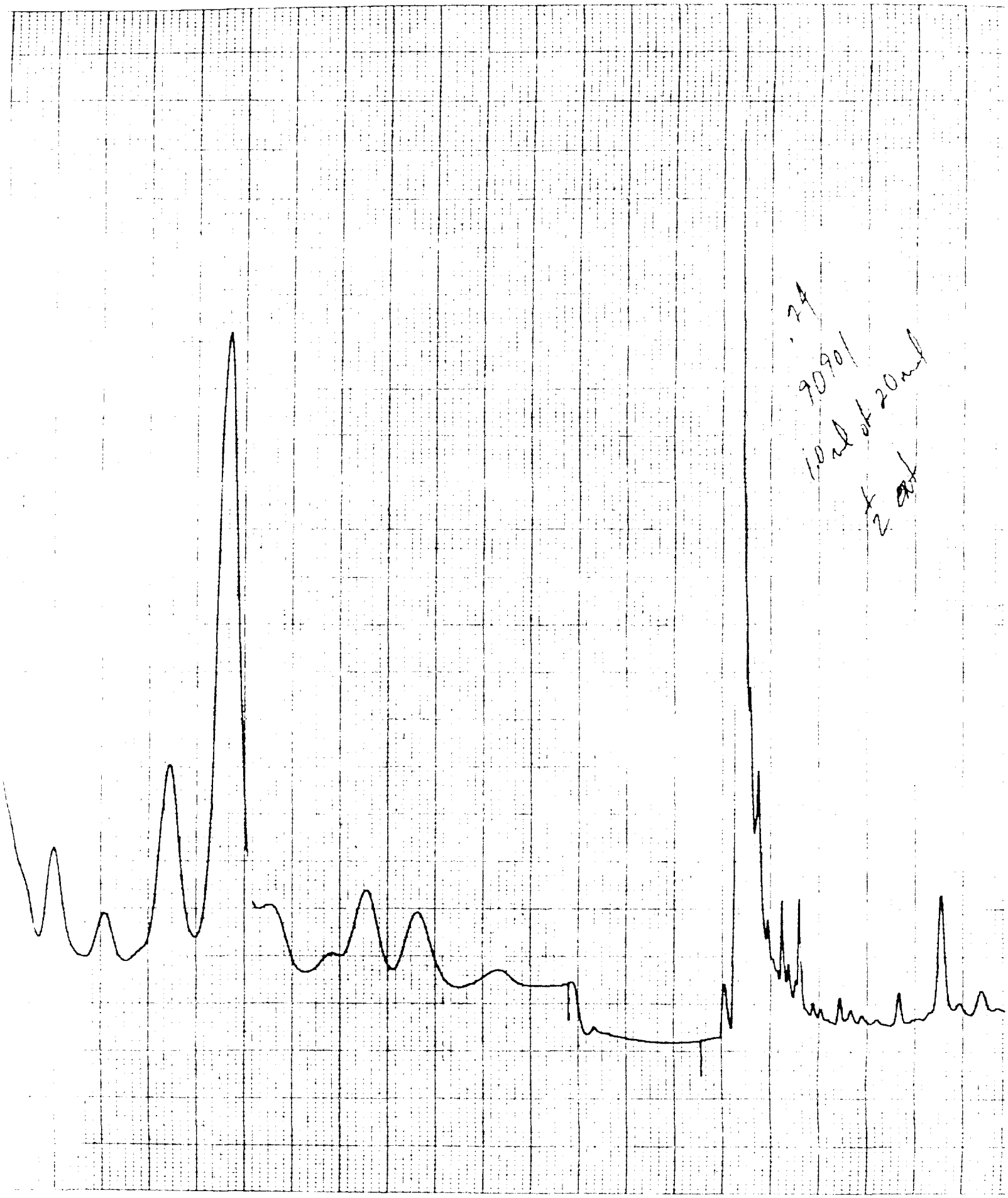

.27

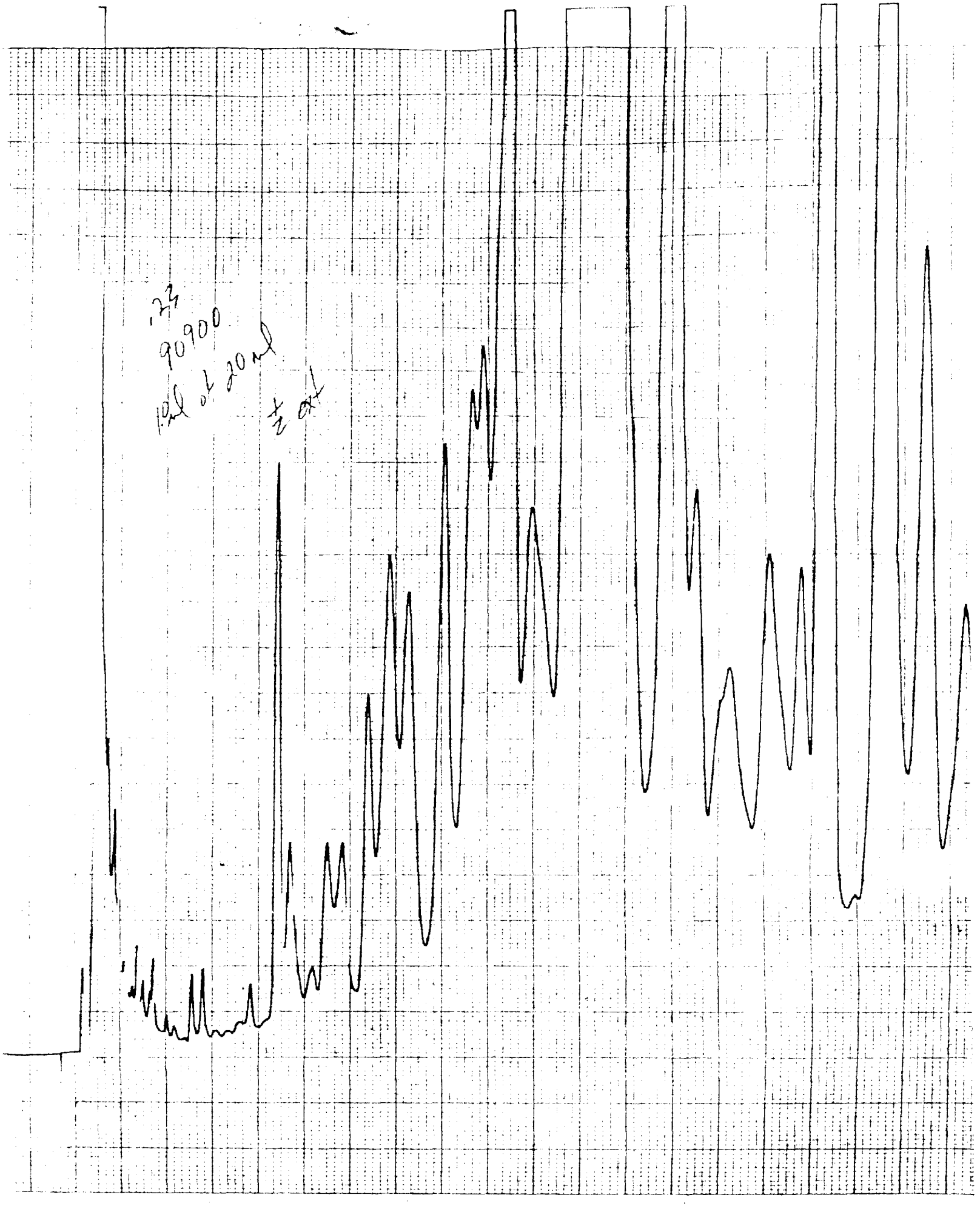


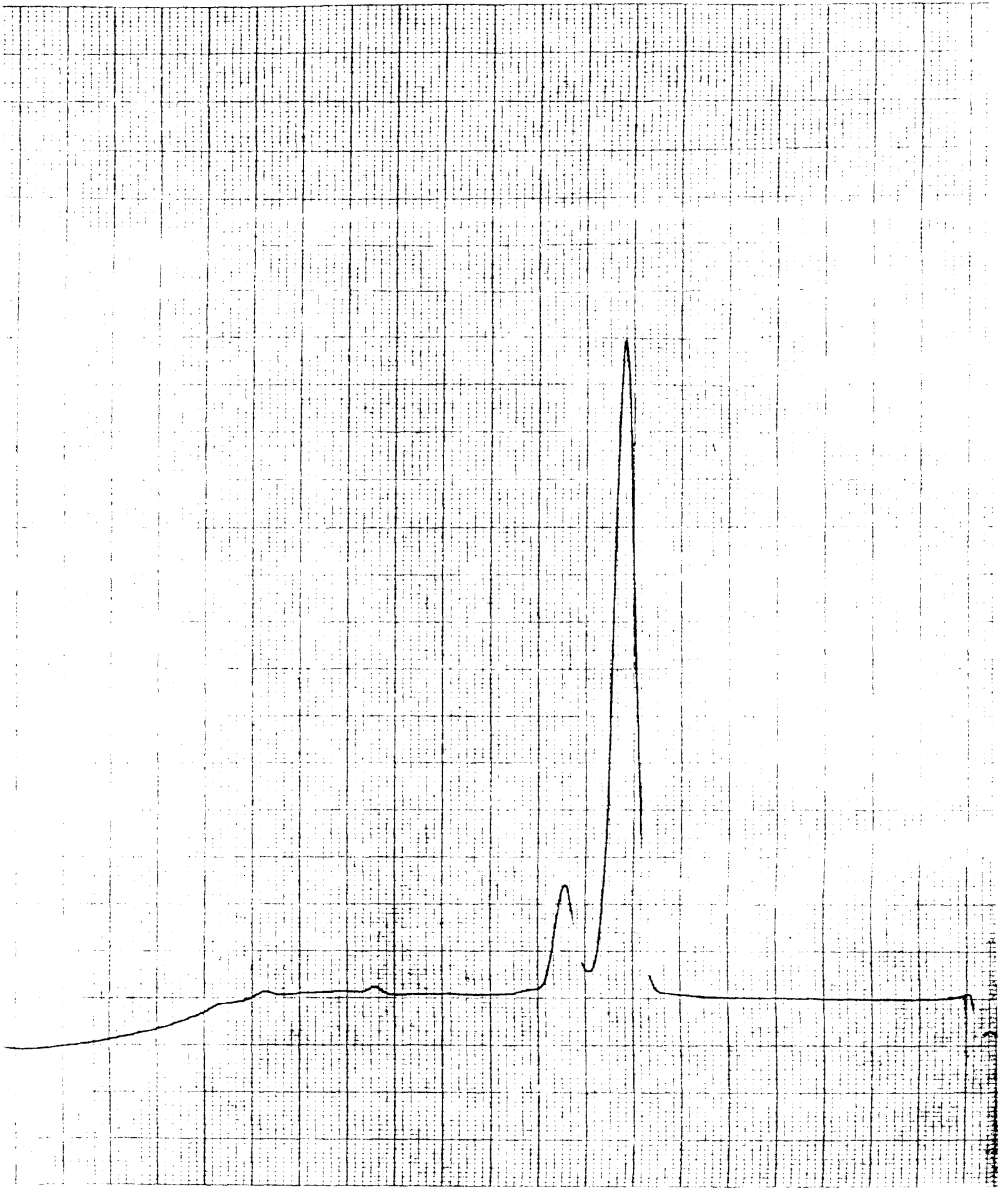
,26
90902
10 ml at 20 ml

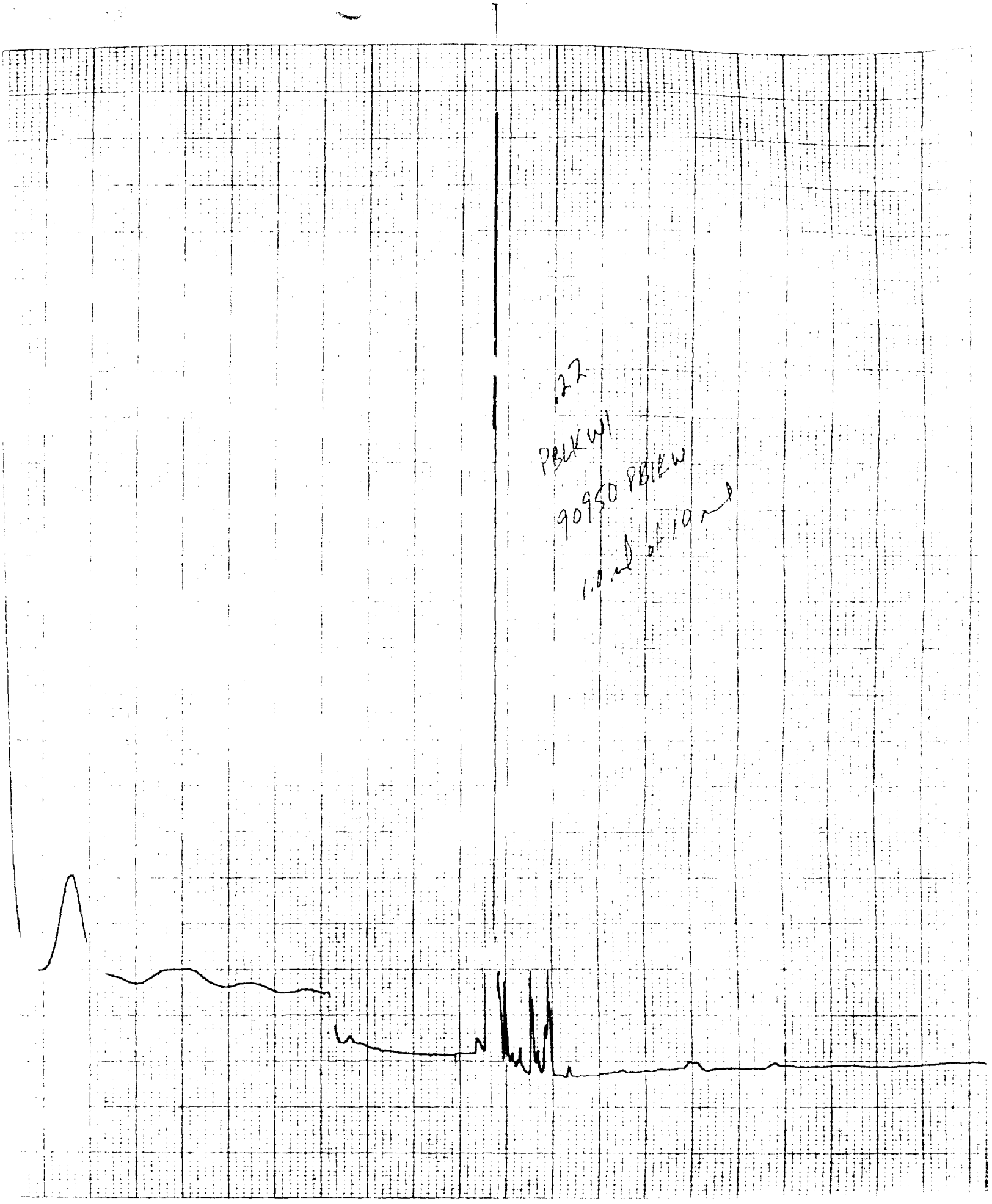

.25
INOA
1.0ml

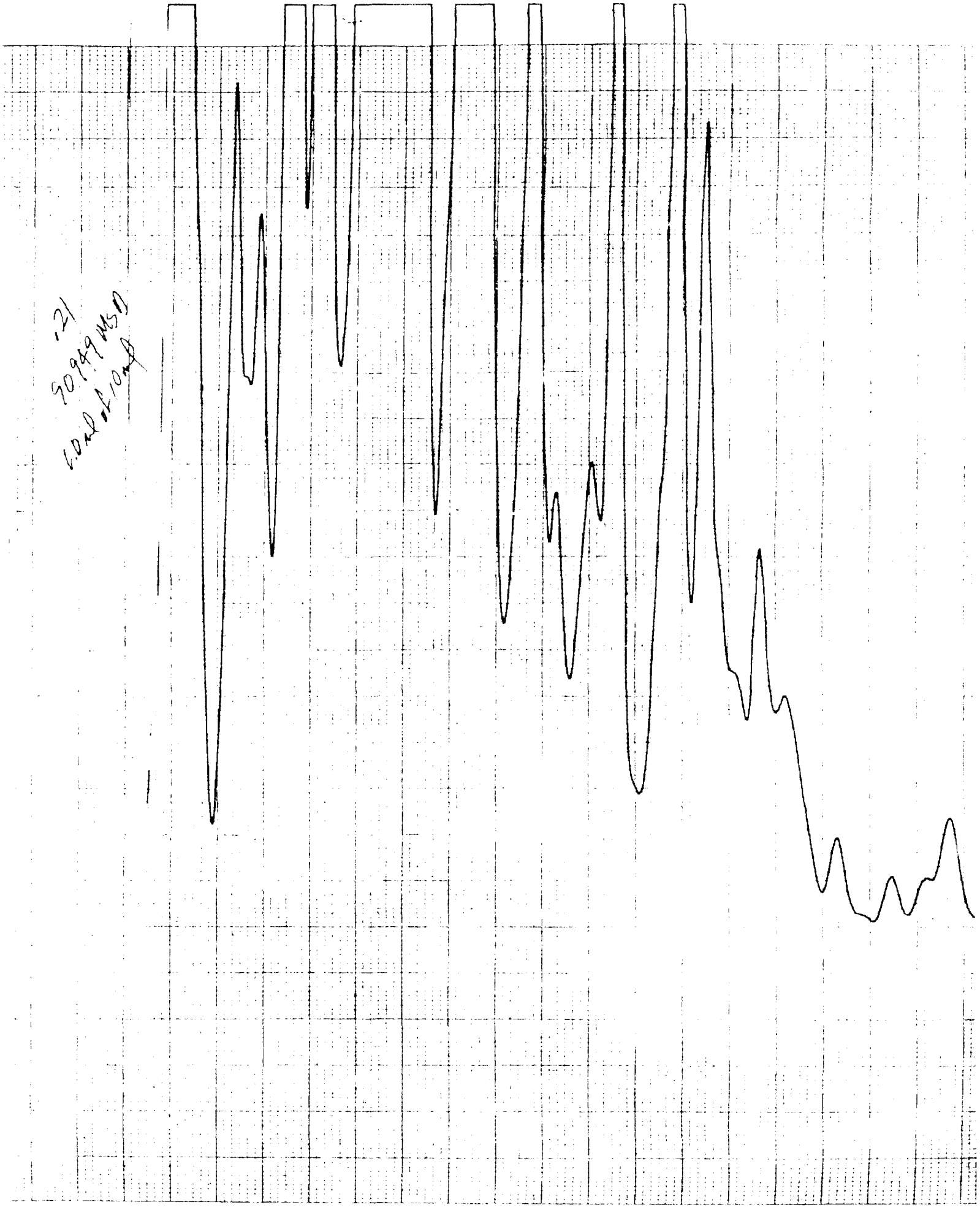


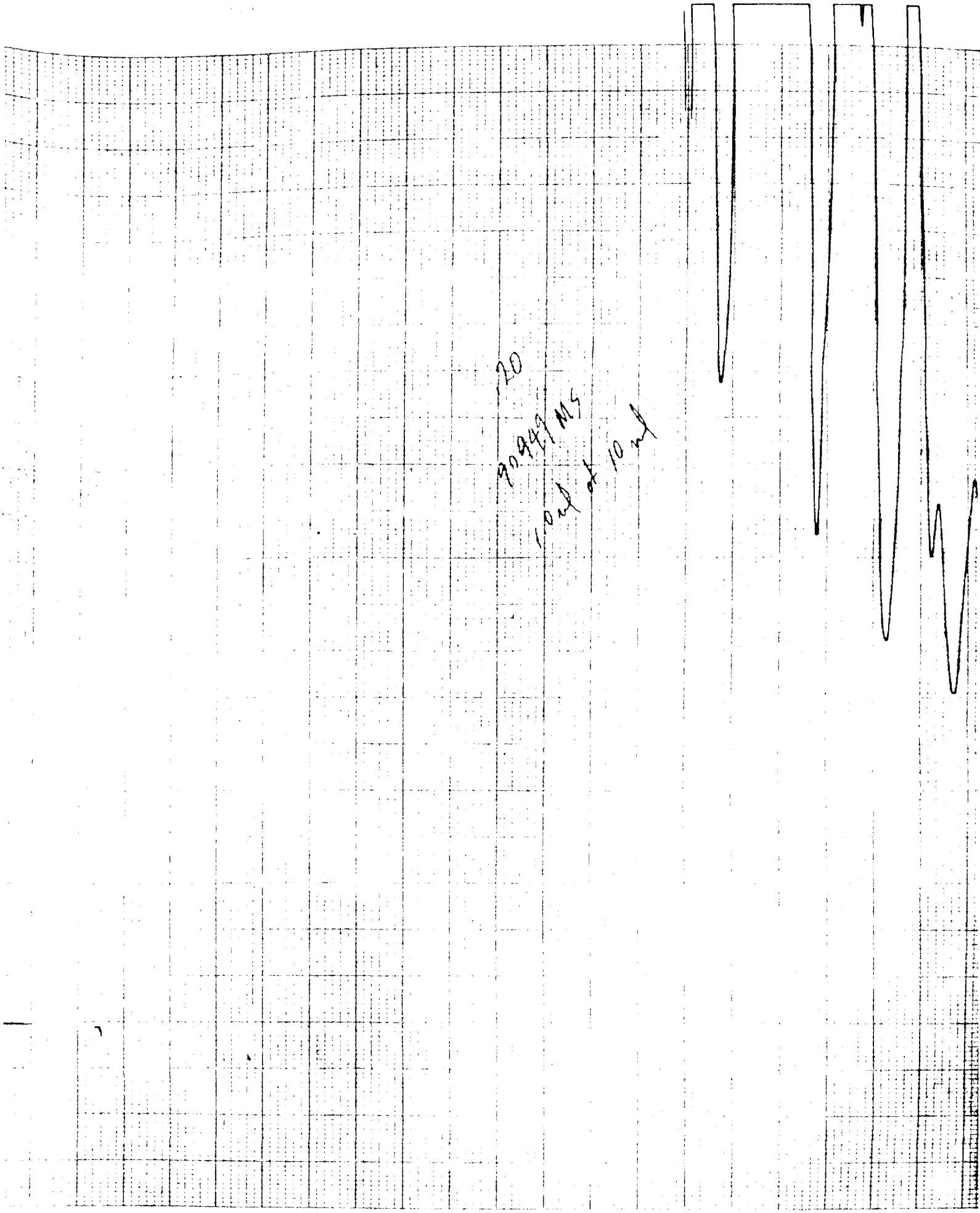

24
90901
1.0 ml of 20 ml
+ 2 ml

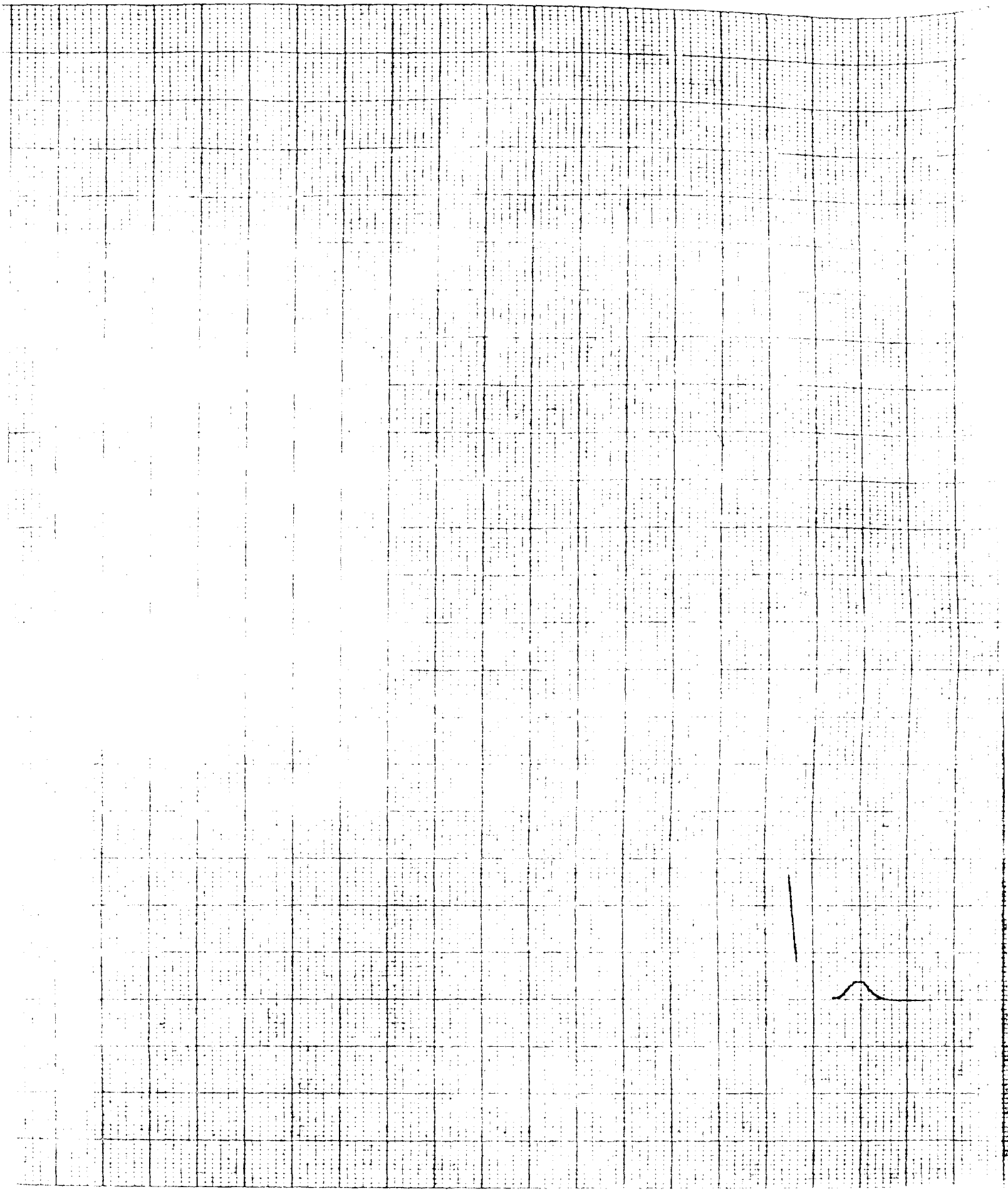

.23
90900
10ml of 20ml
½ ext




27
PBLKW1
90950 PBIEW
1.0 ml of 10 ml


.21
90949 MSD
1.0 ml of 10 mg


20
90949 MS
1.0 ml of 10 ml

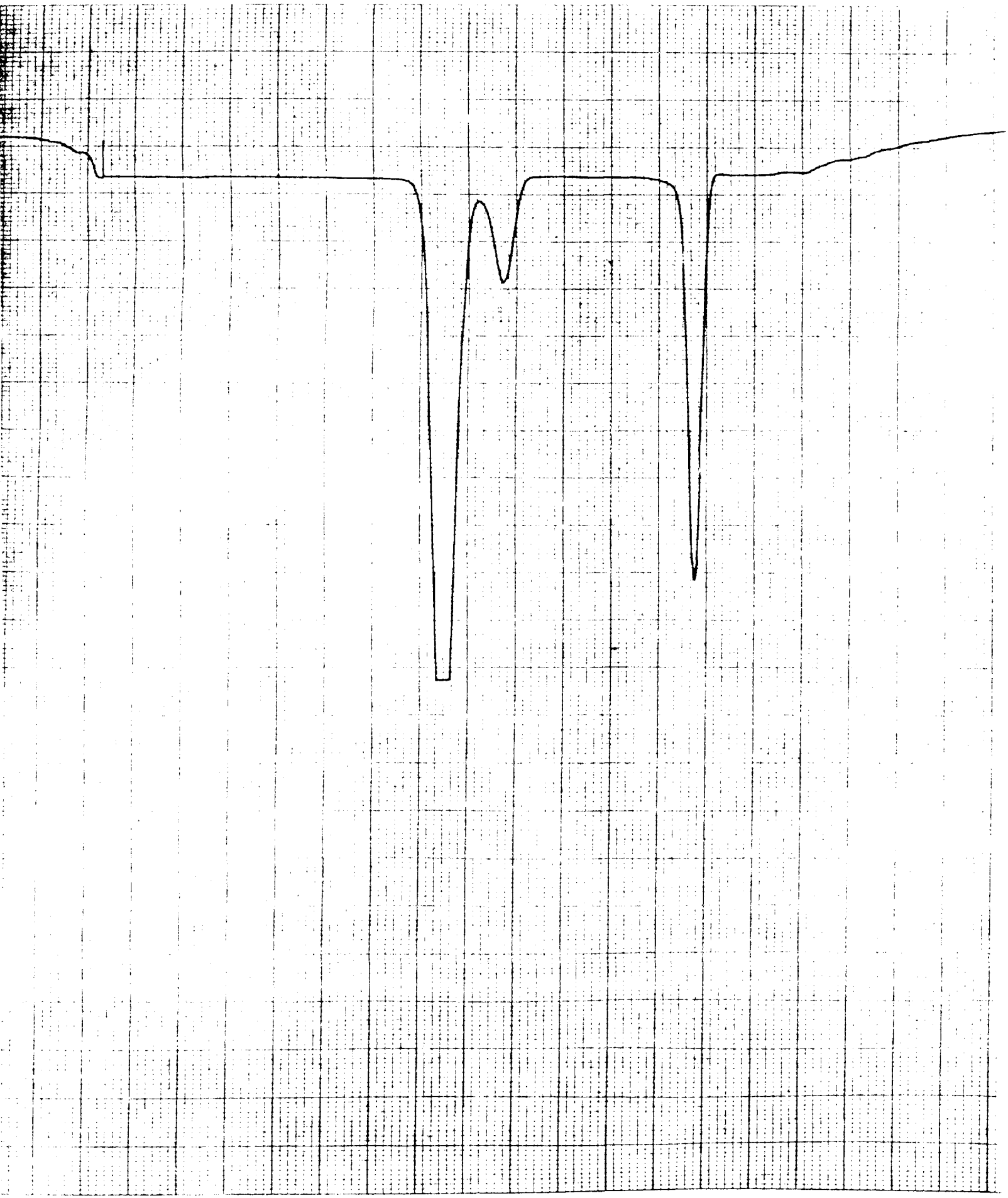


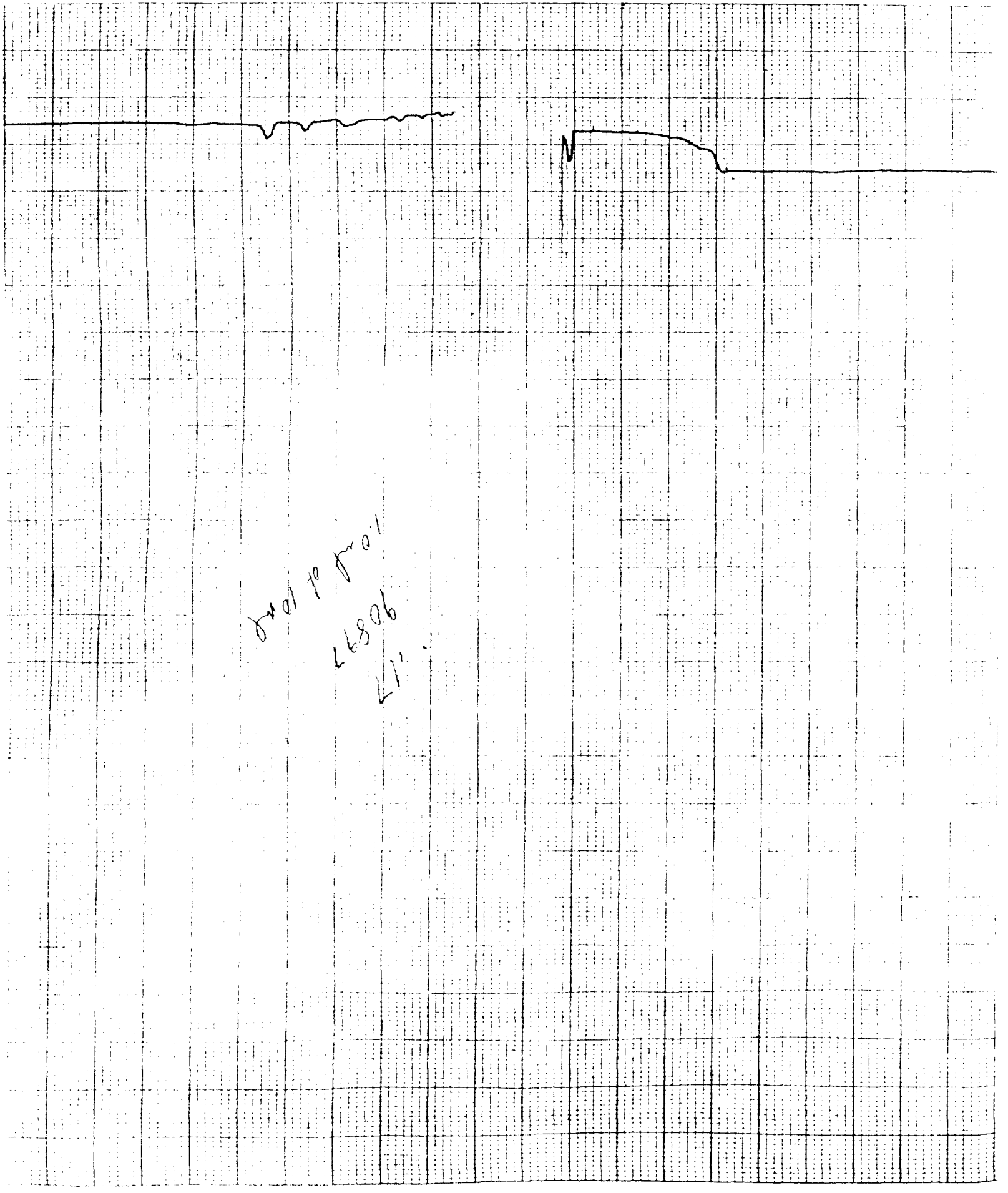
.19

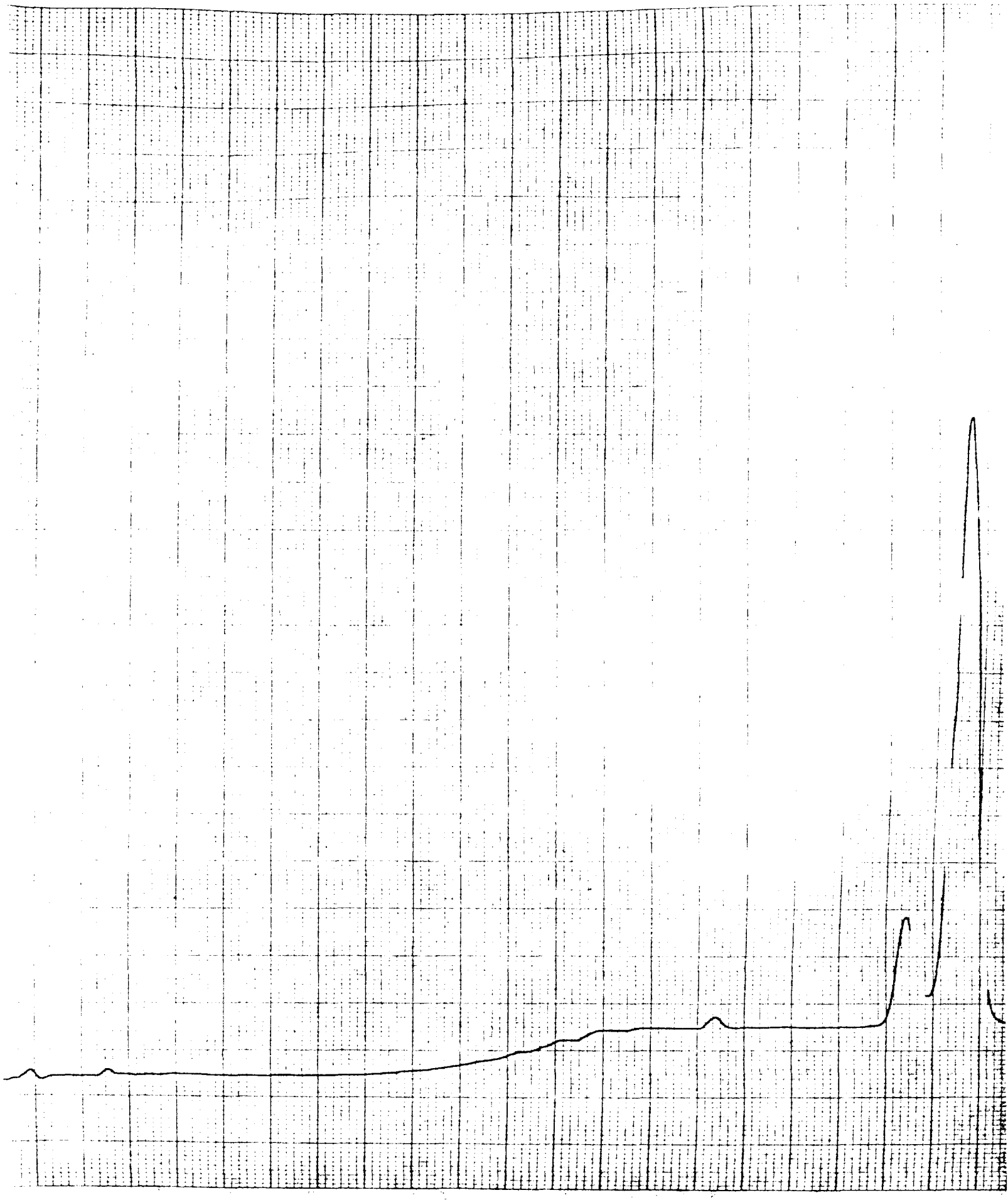
EVAL B

1.0 ml

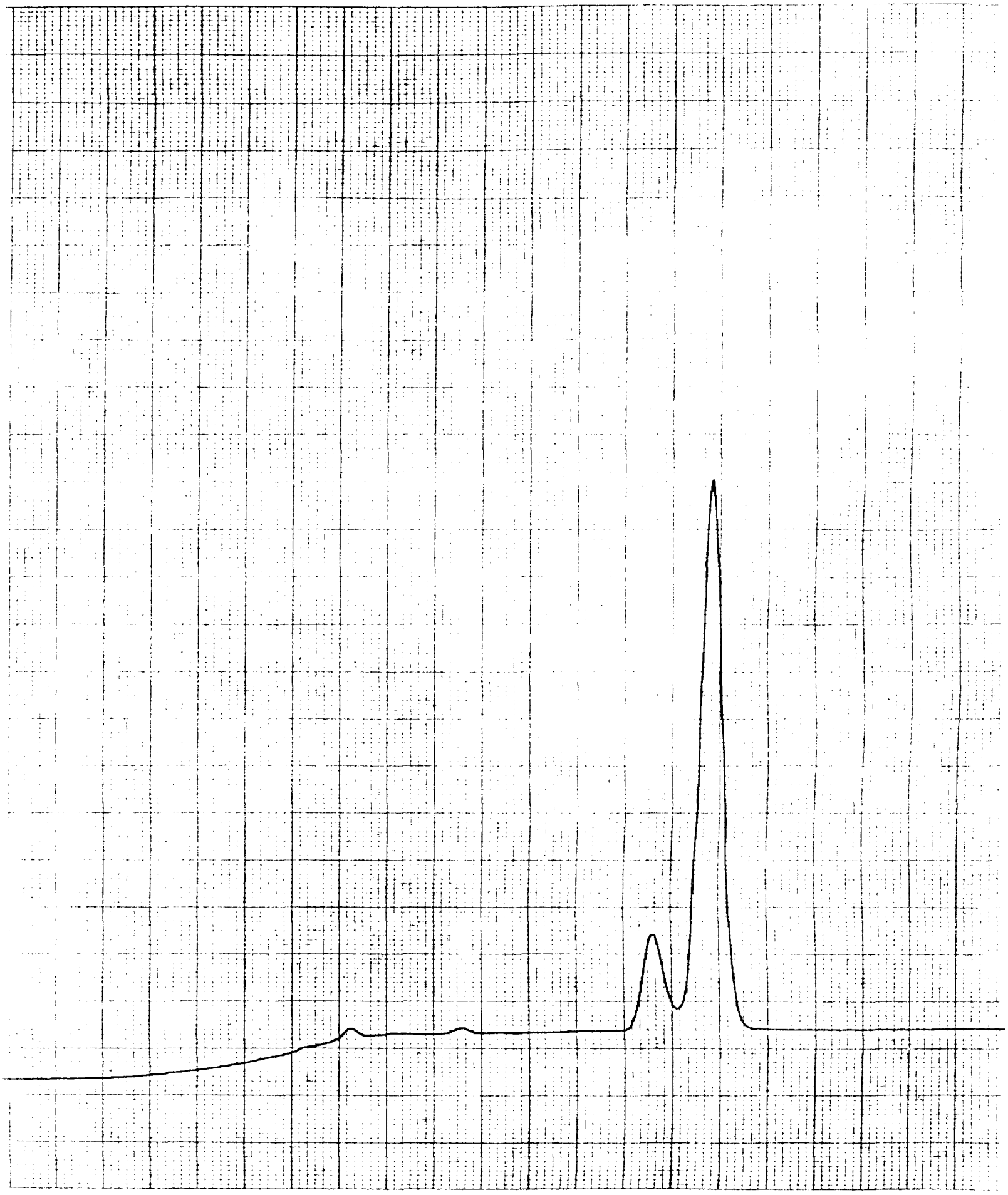
.18
90898
1.0ml of 10ml

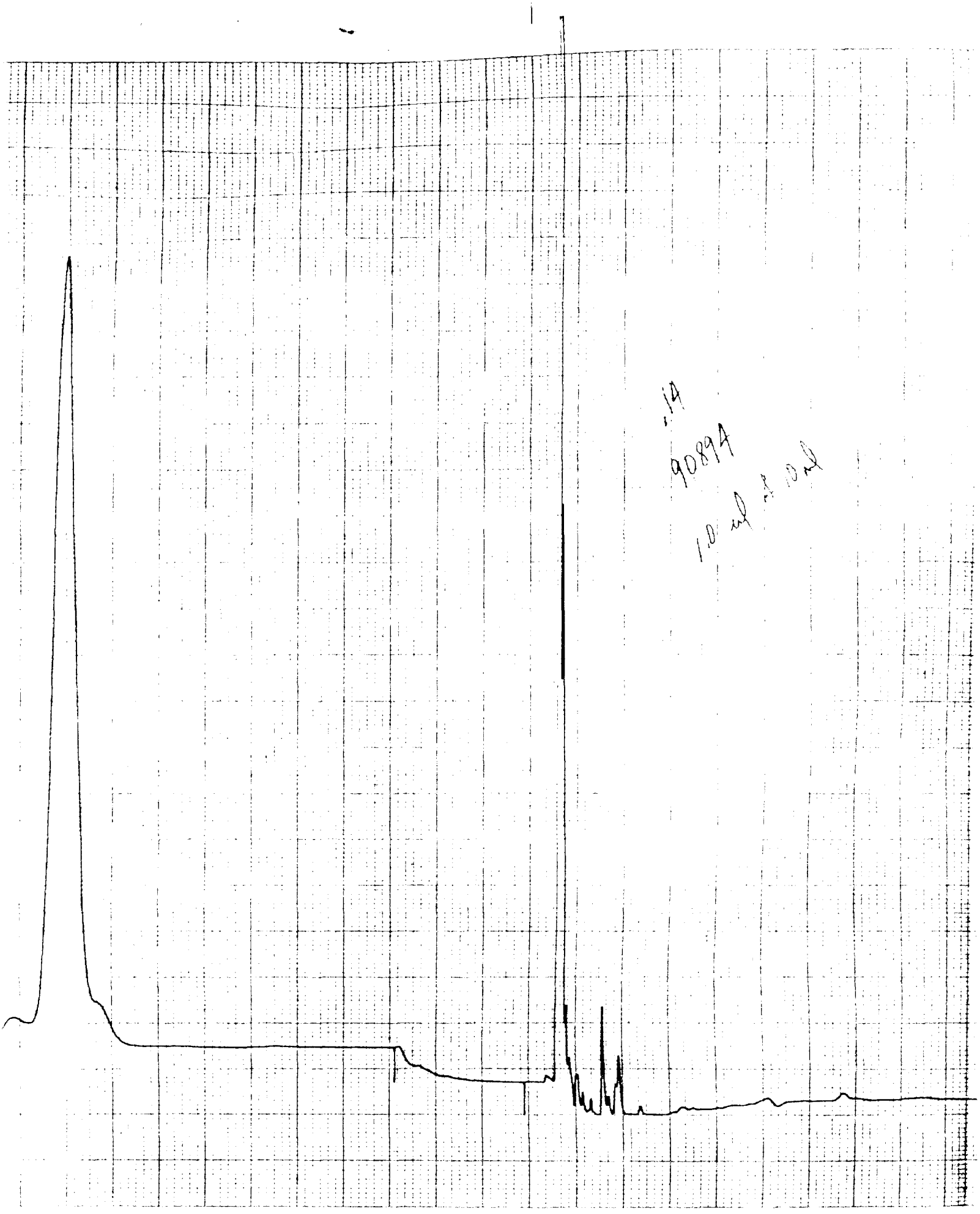


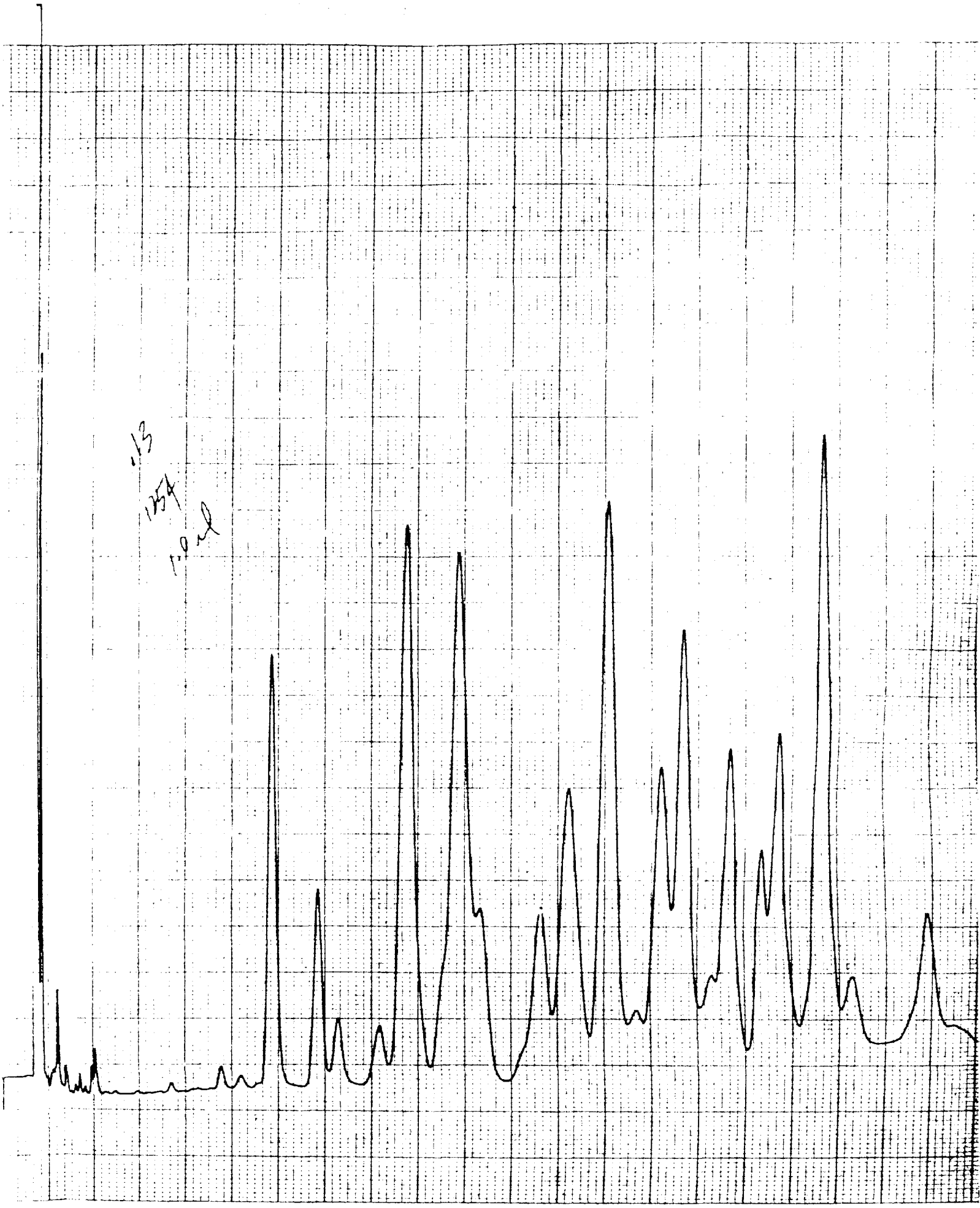


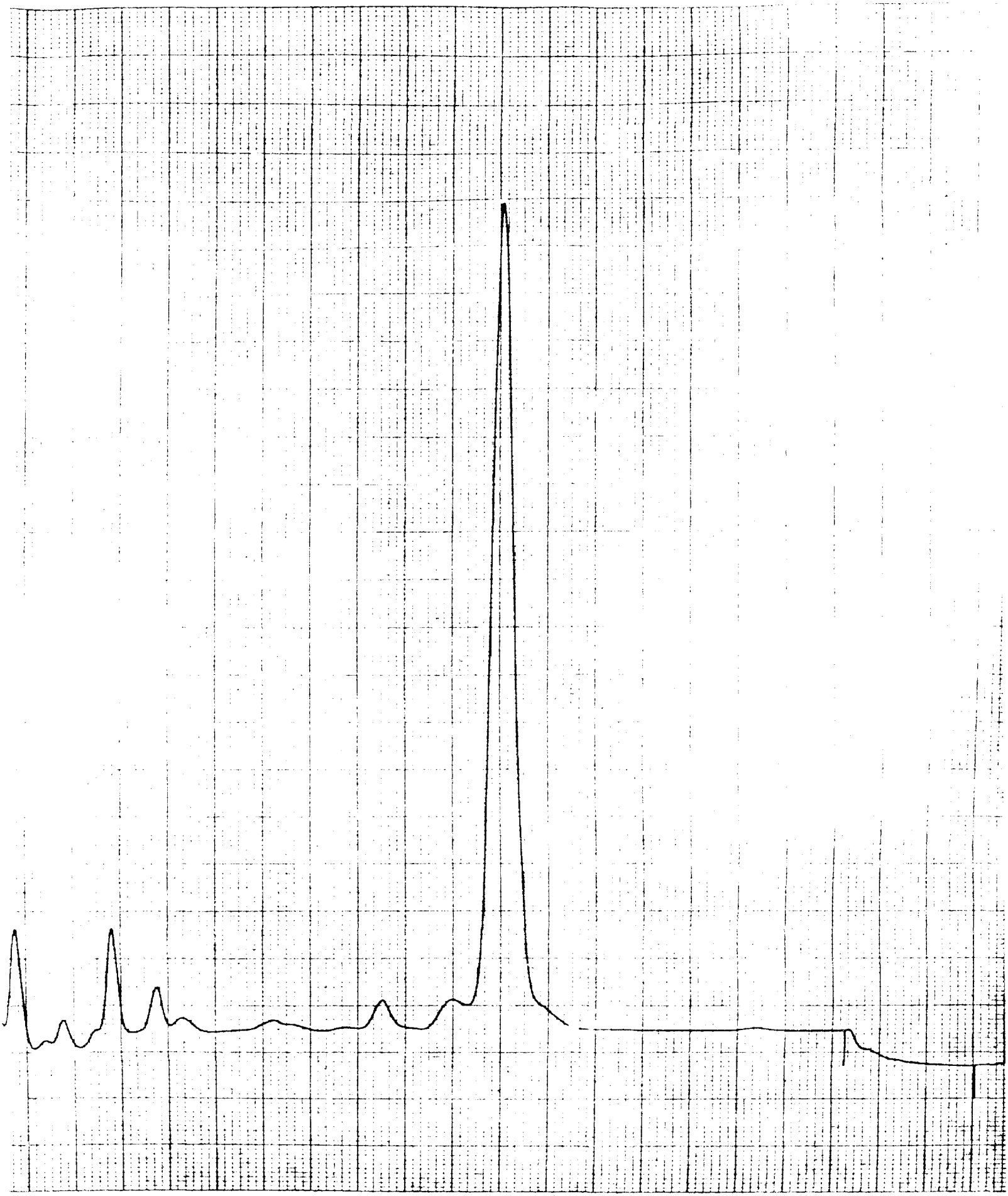


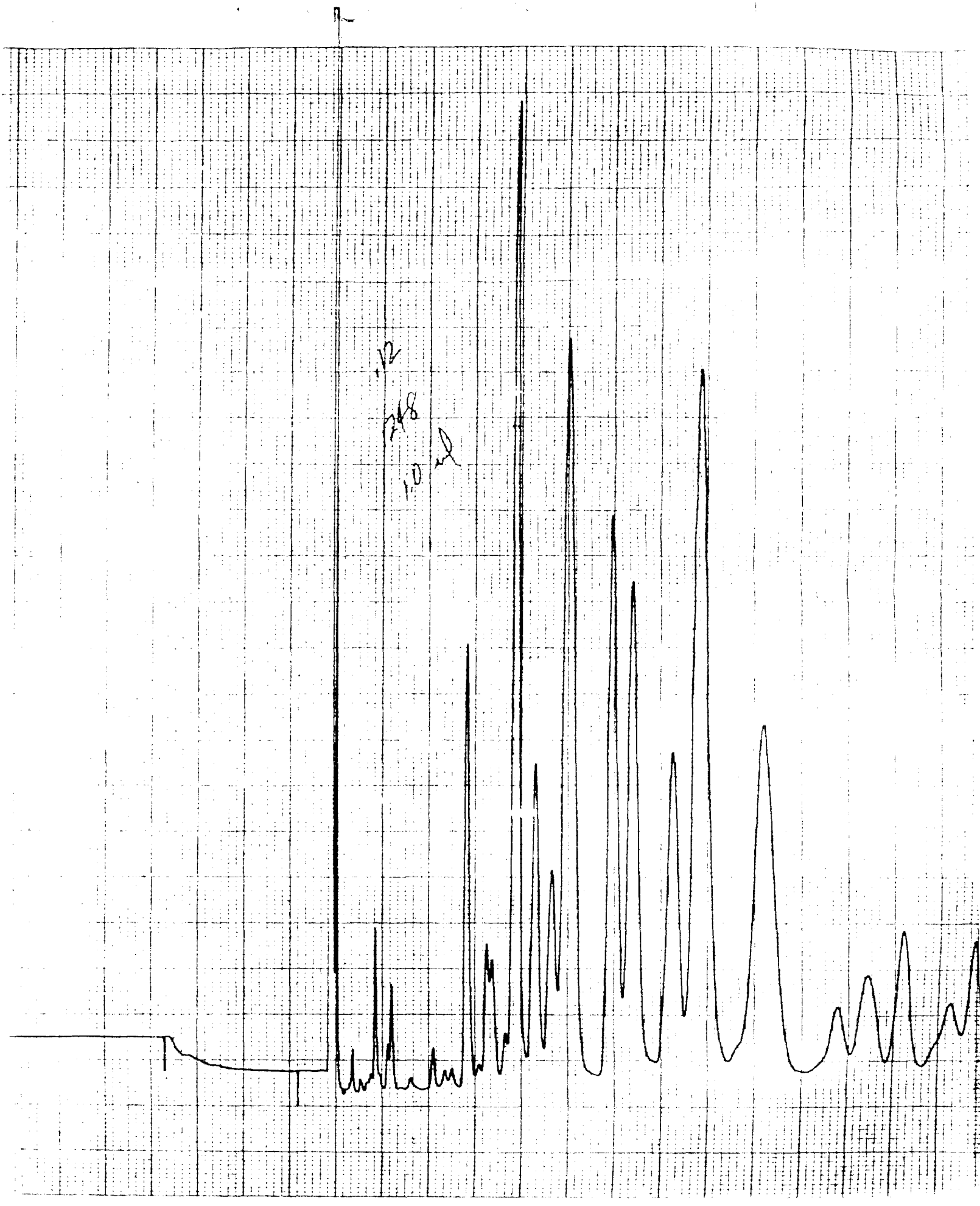
90896
1.0ml of 10ml

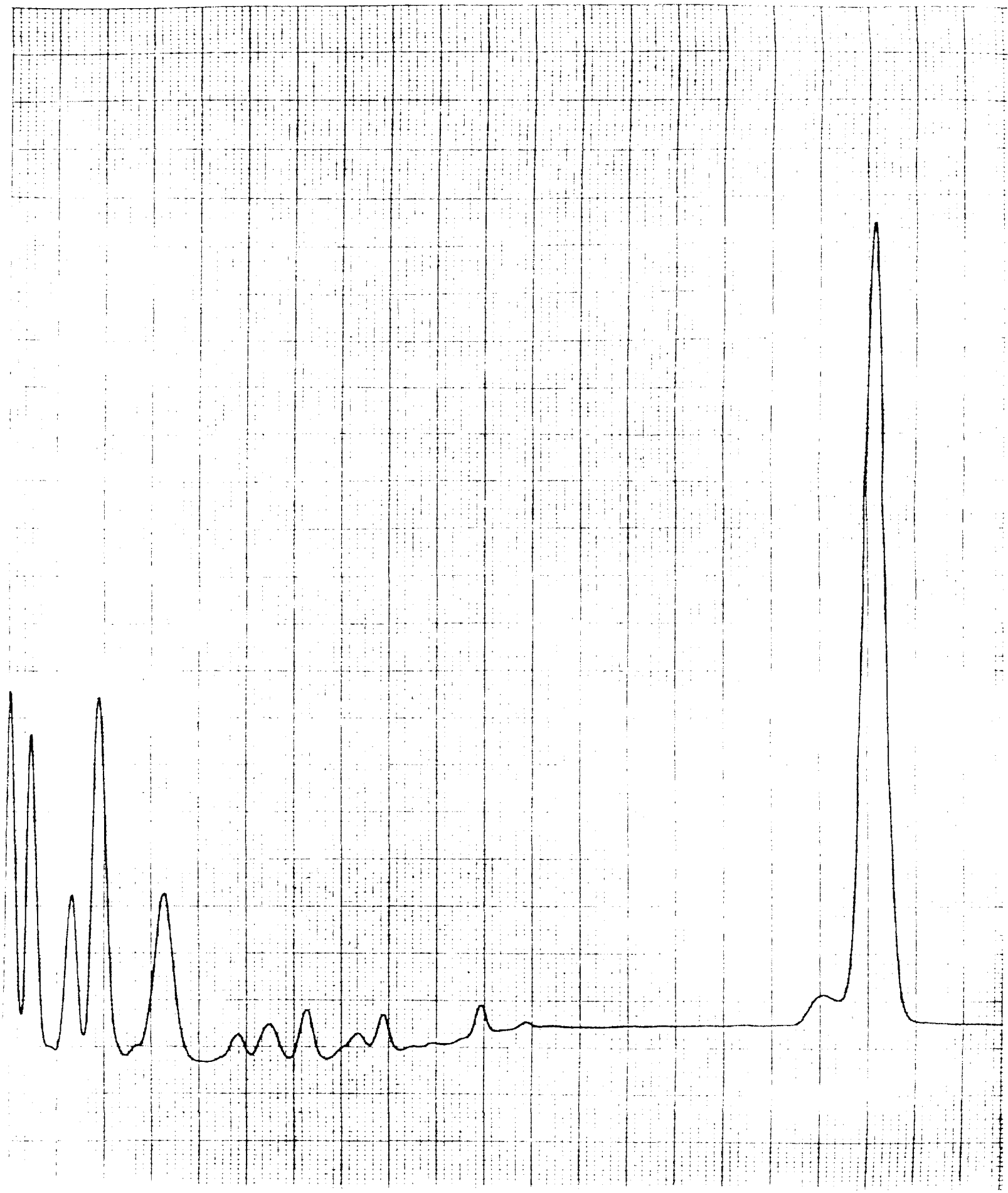


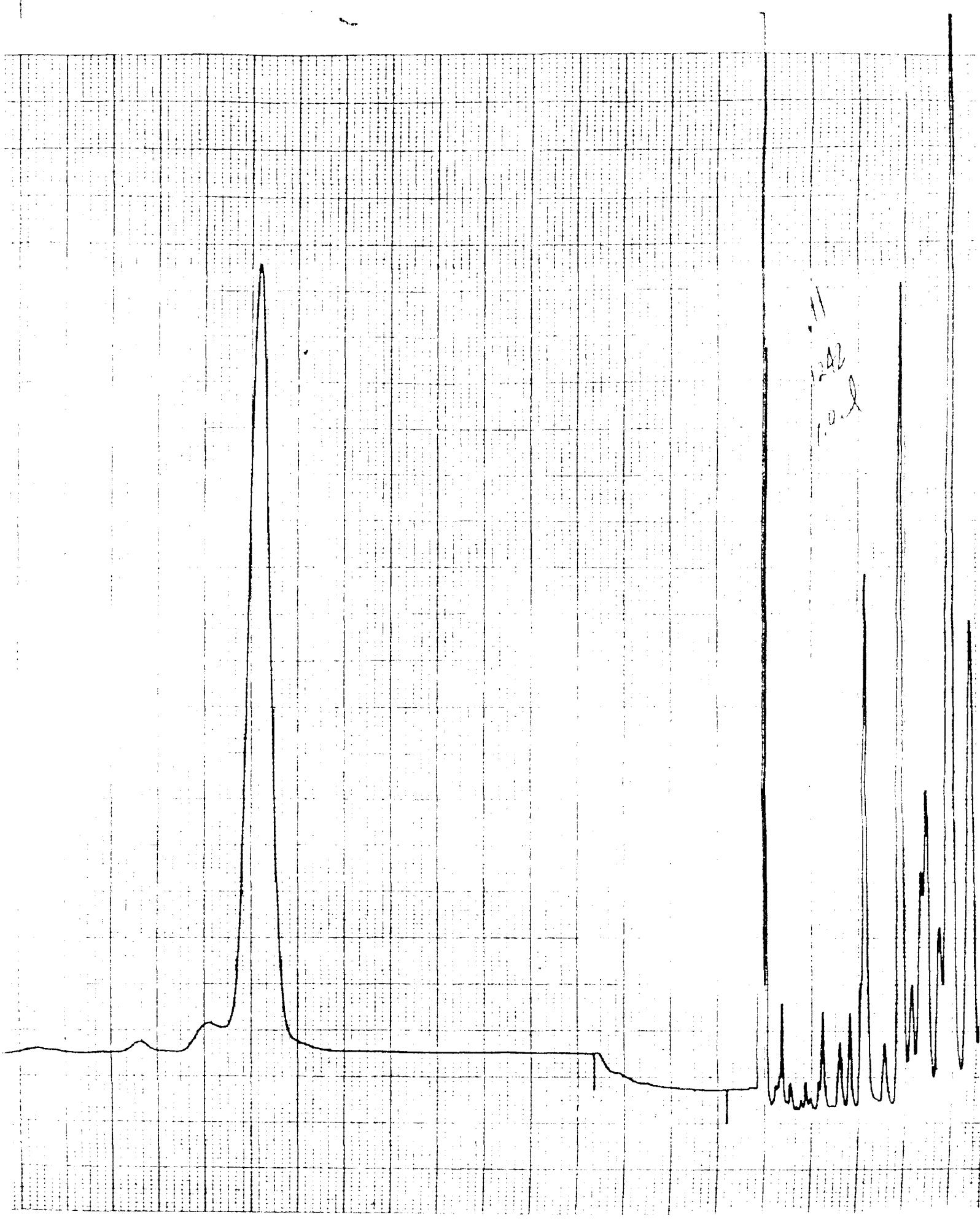

1A
90894
10 ml to 10 ml

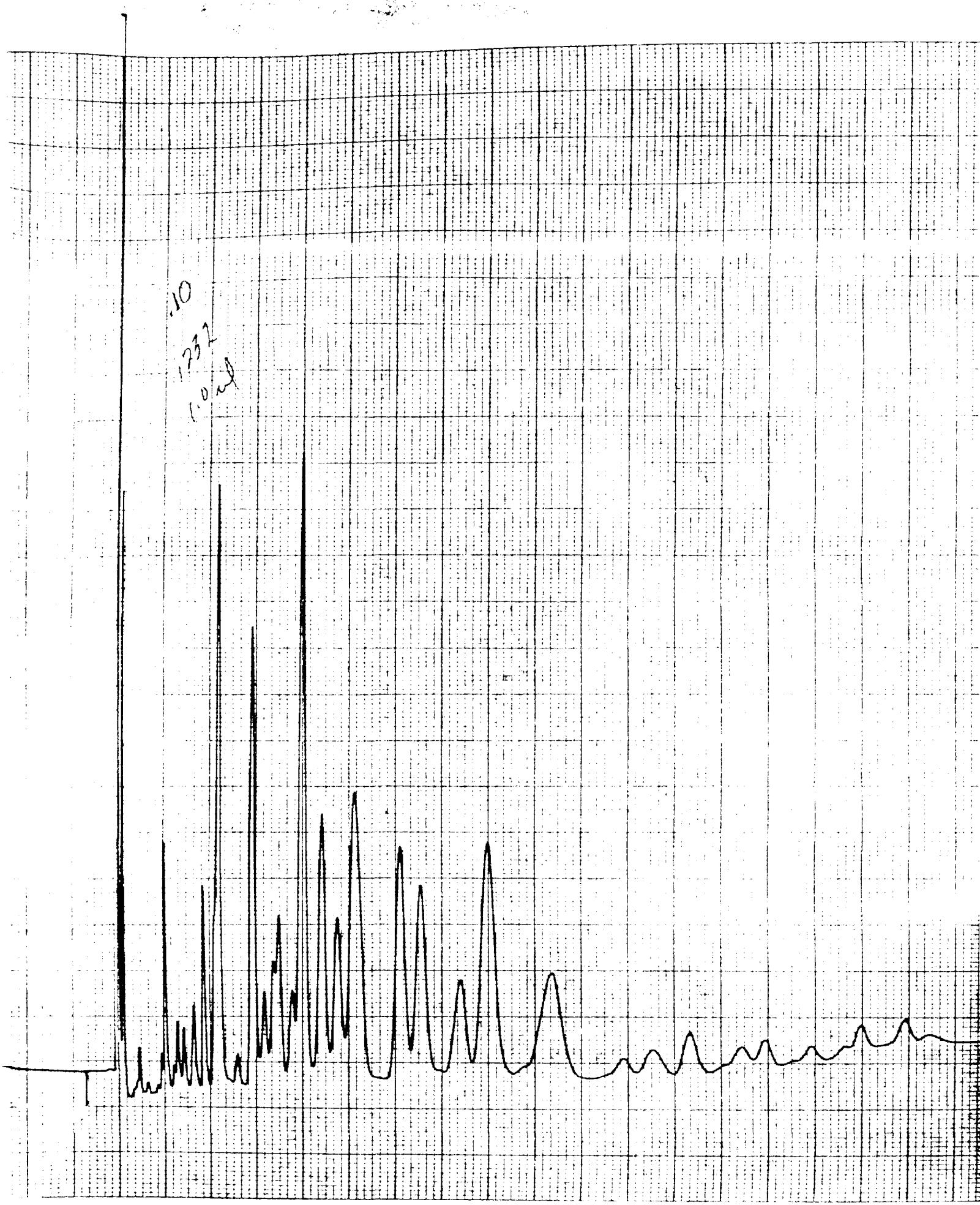

.13
1354
1.0 ml

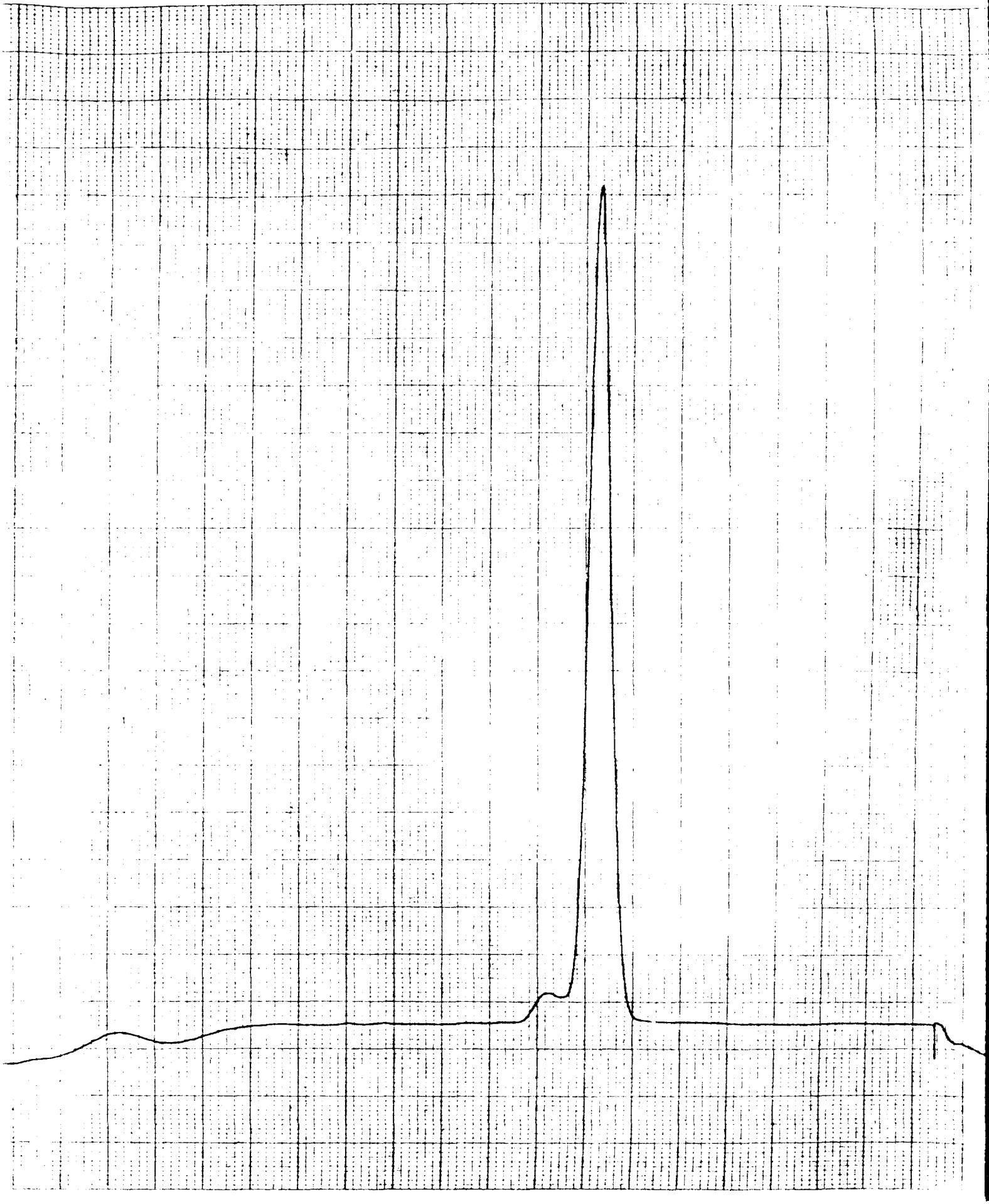



12
248
10 d

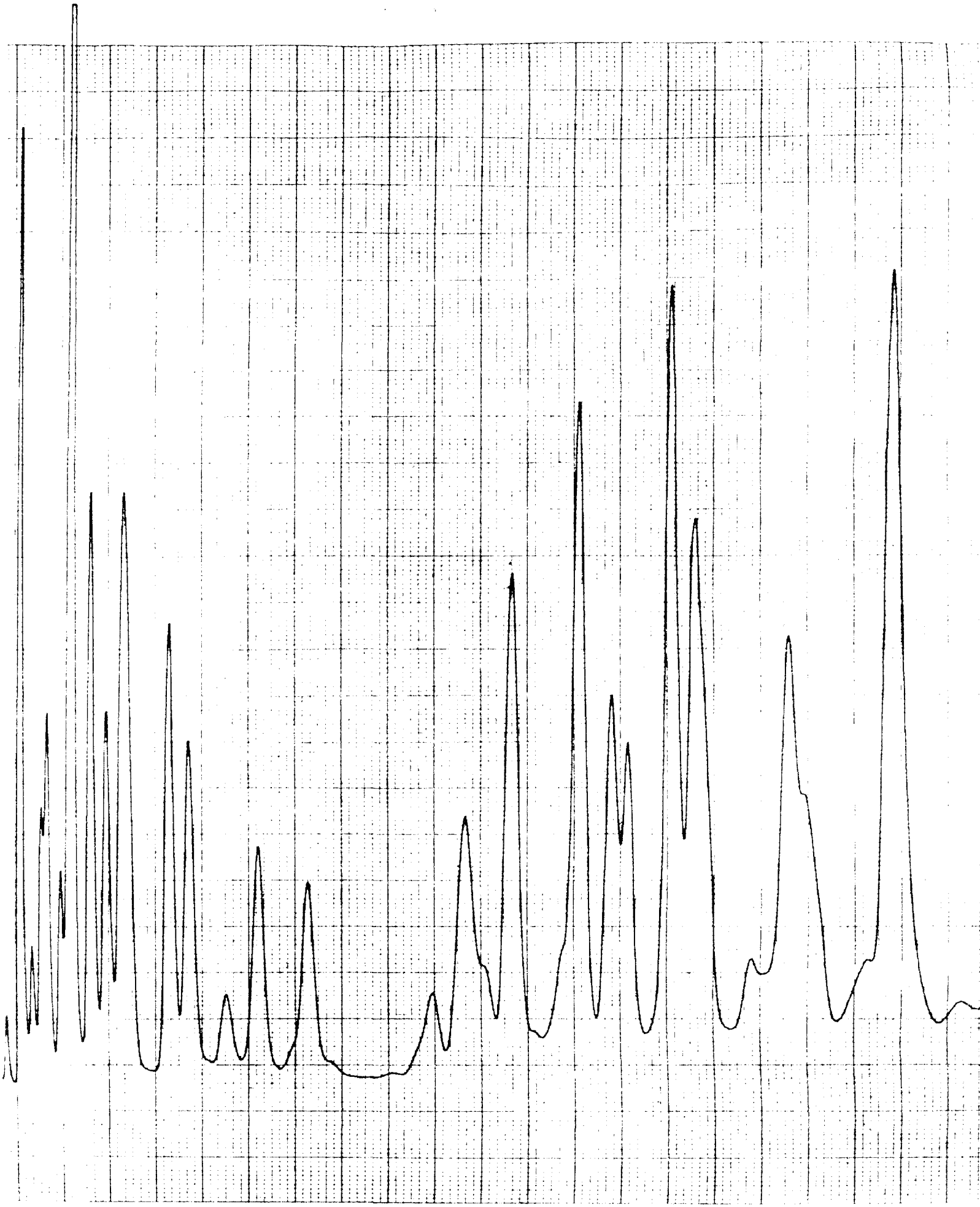


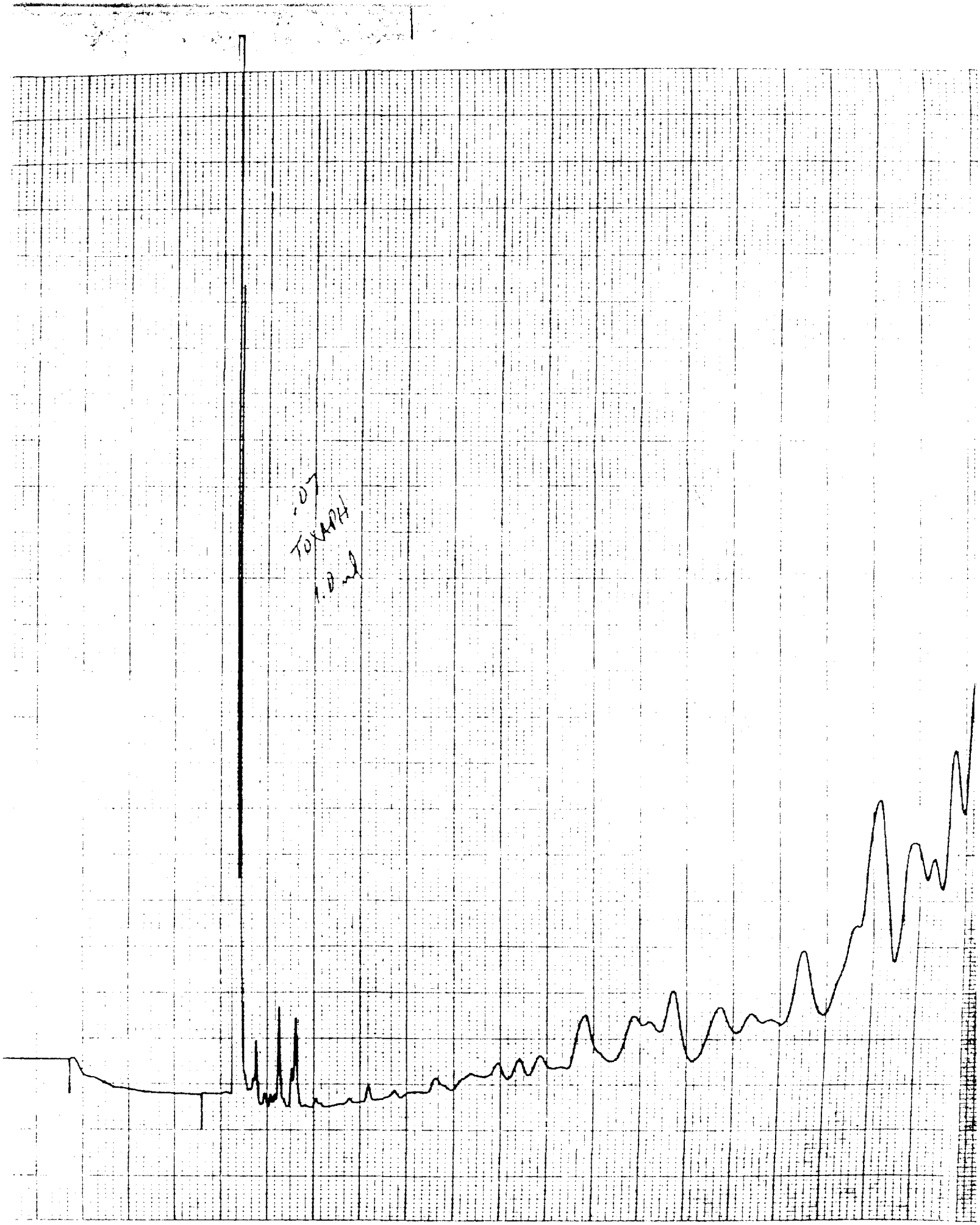


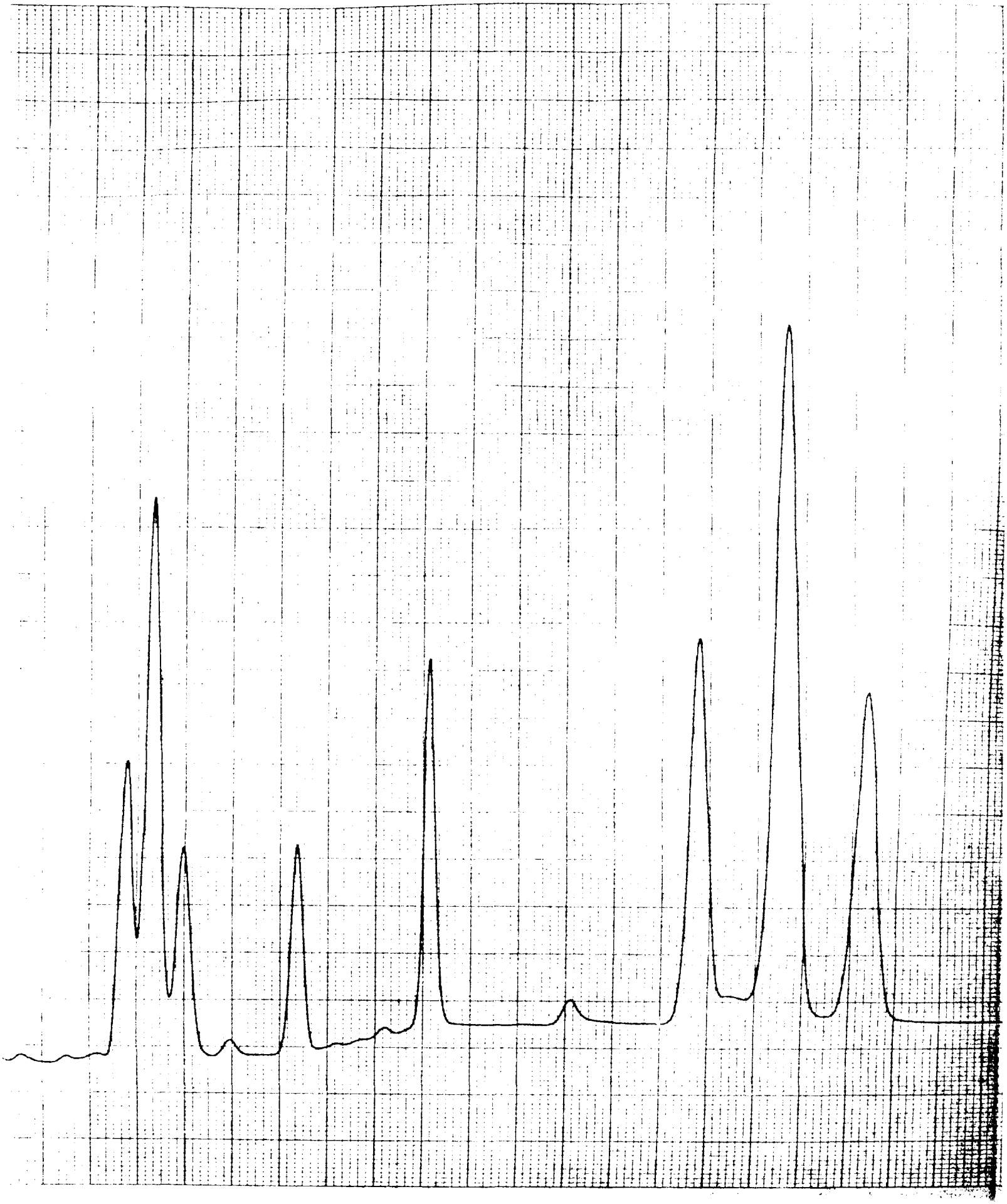

.10
1232
1.0 ml



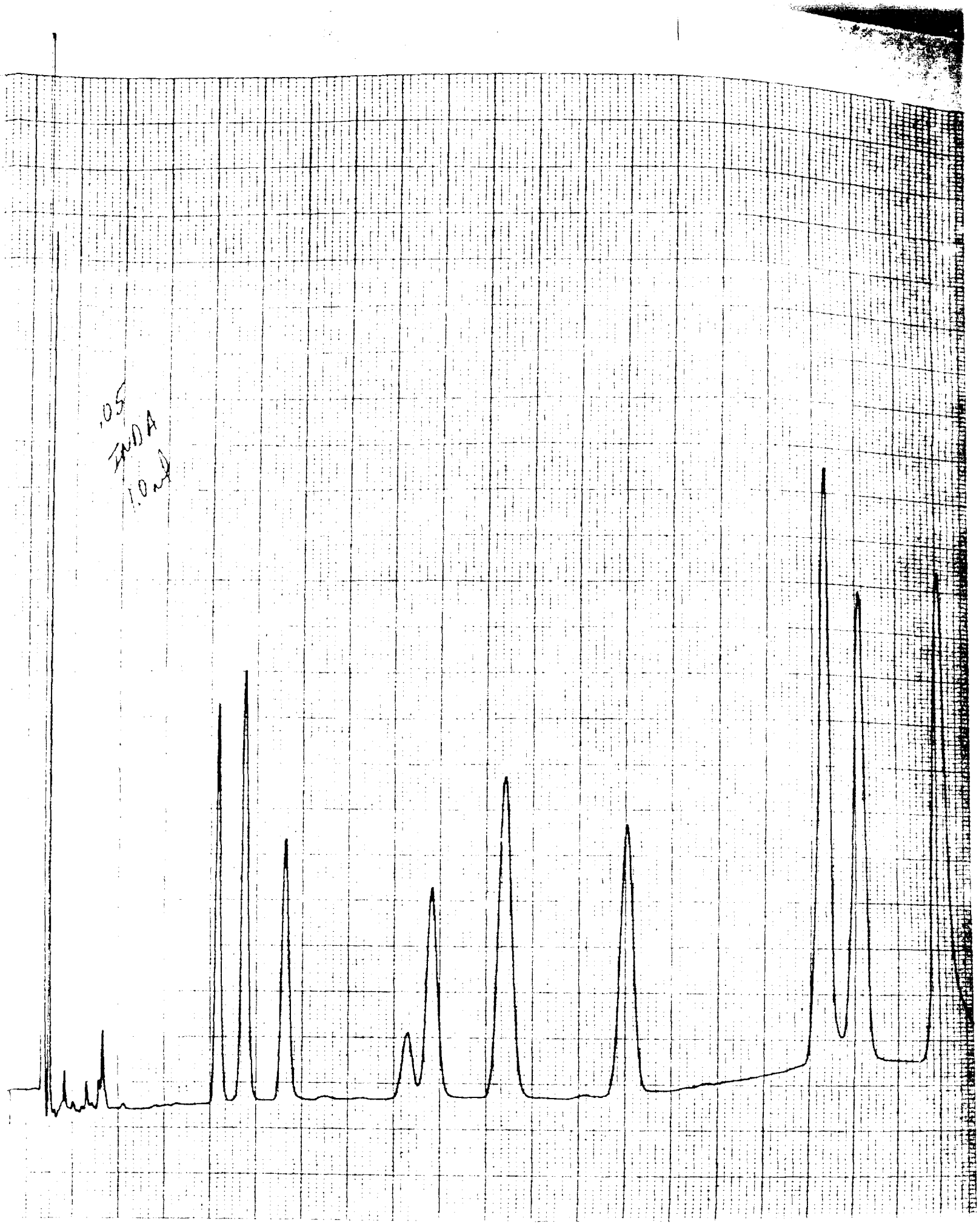
.09
.221
1.0 ml

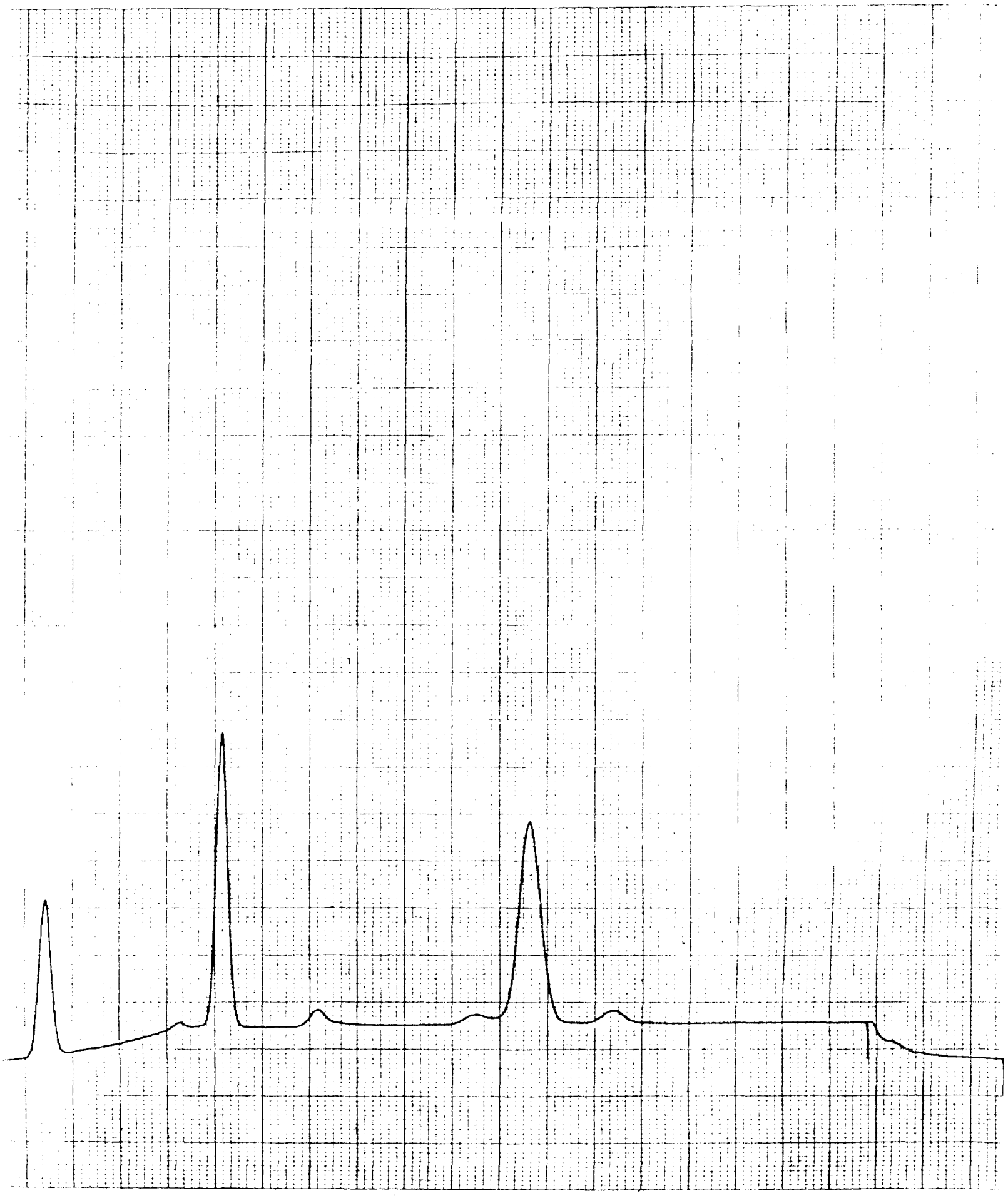


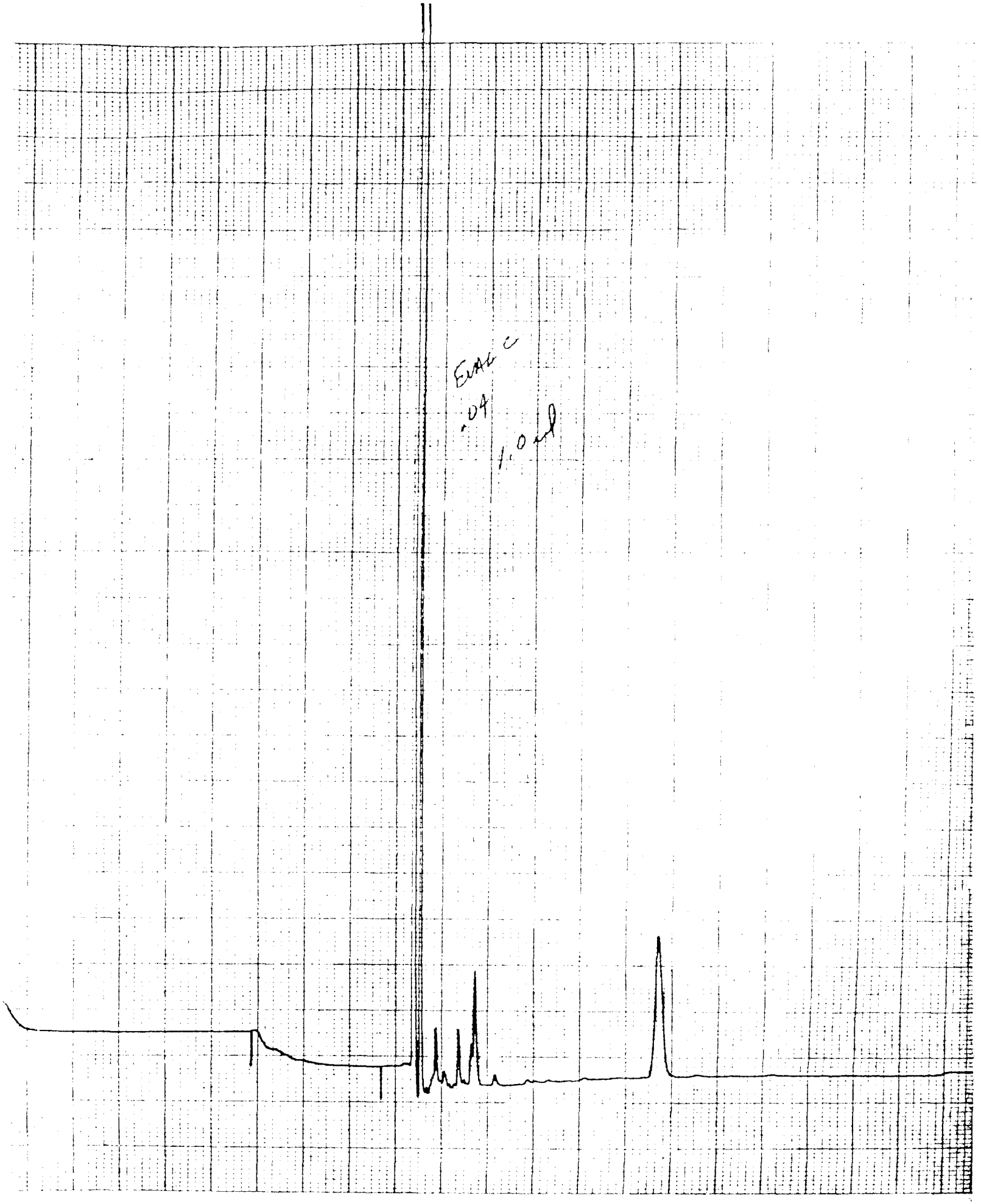

.07
TOXAPH
1.0 ml

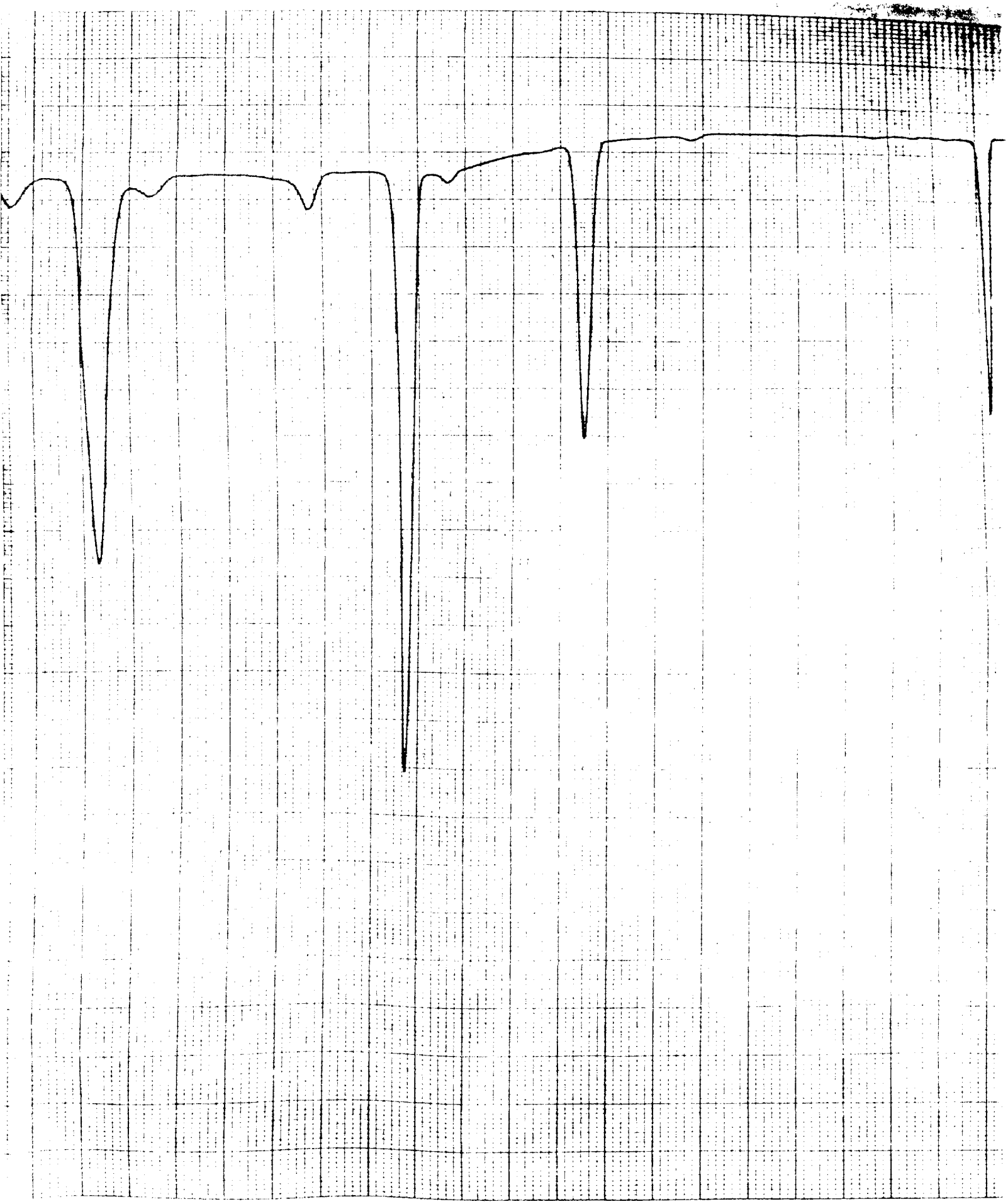


.06
INDB
1.0 ml

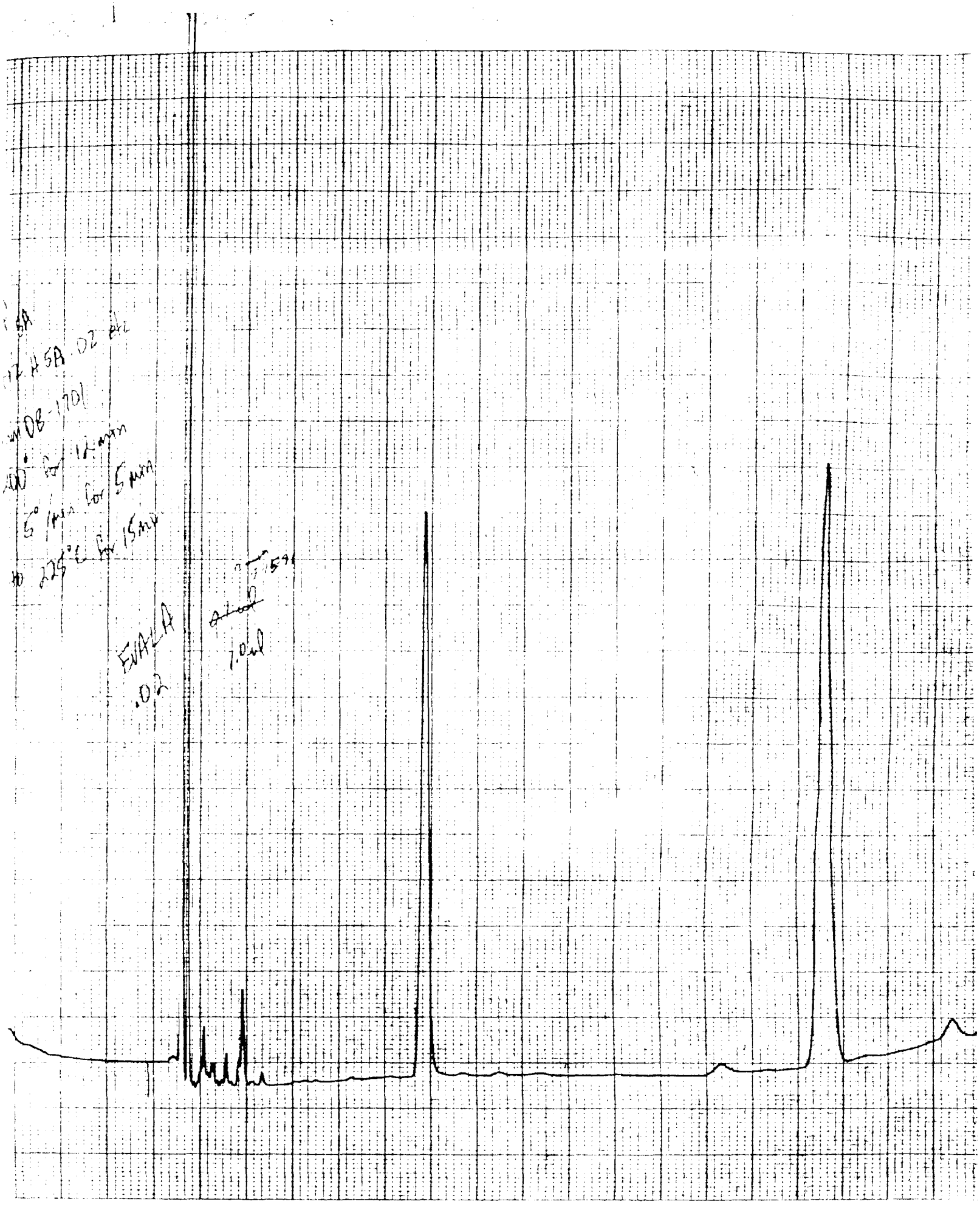

.05
EDA
1.0 ml



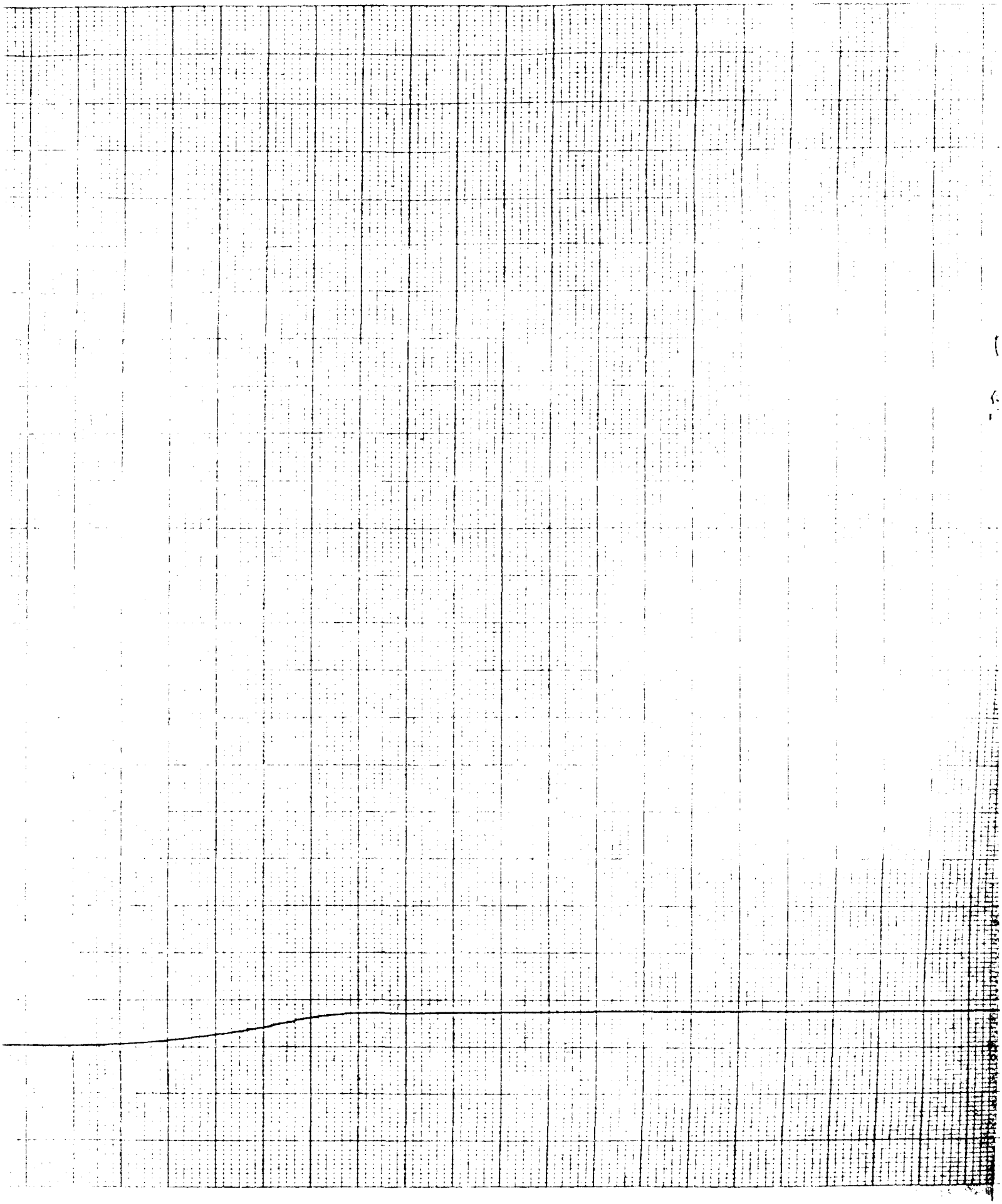

EtAc
.04
1.0 ml

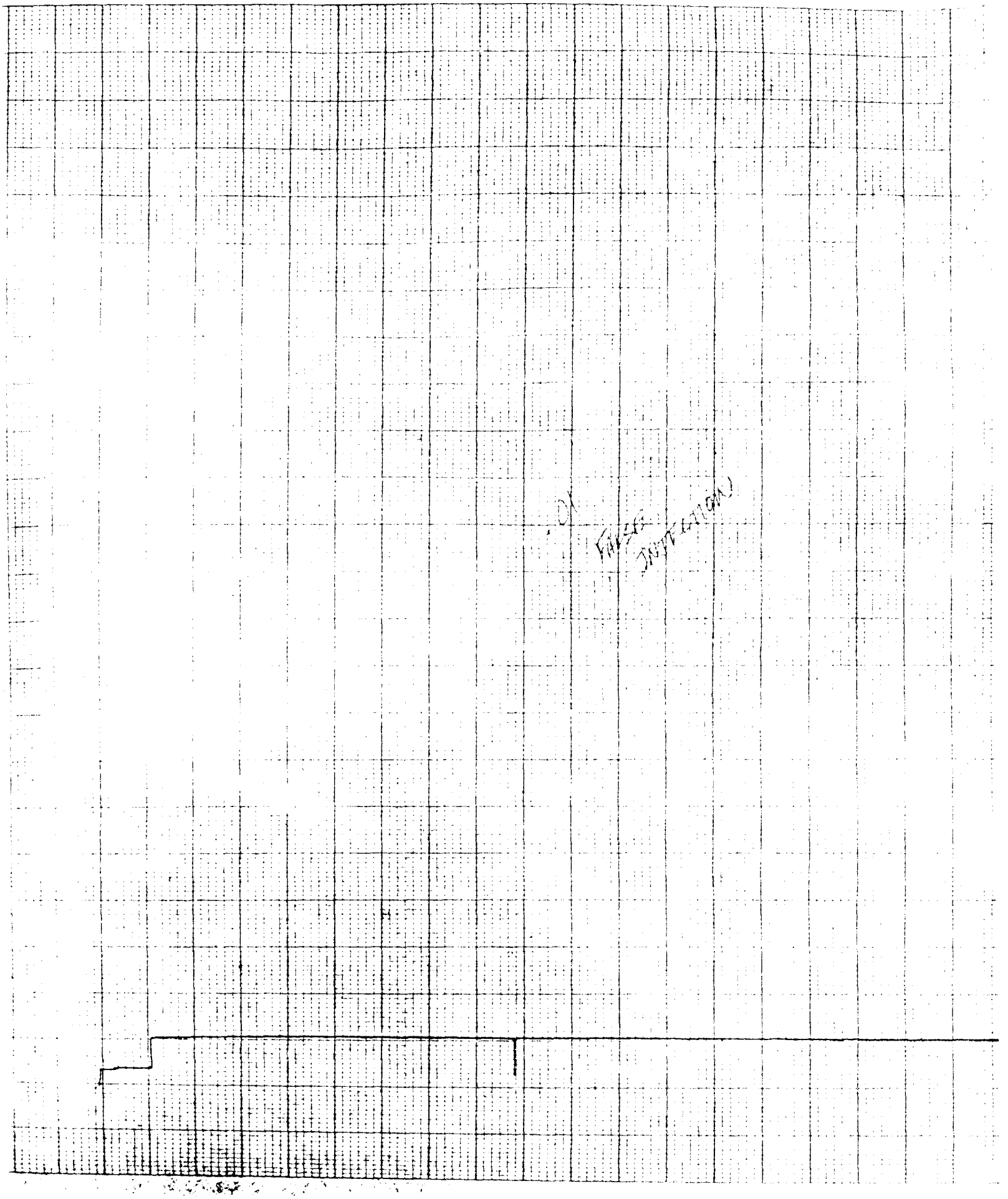


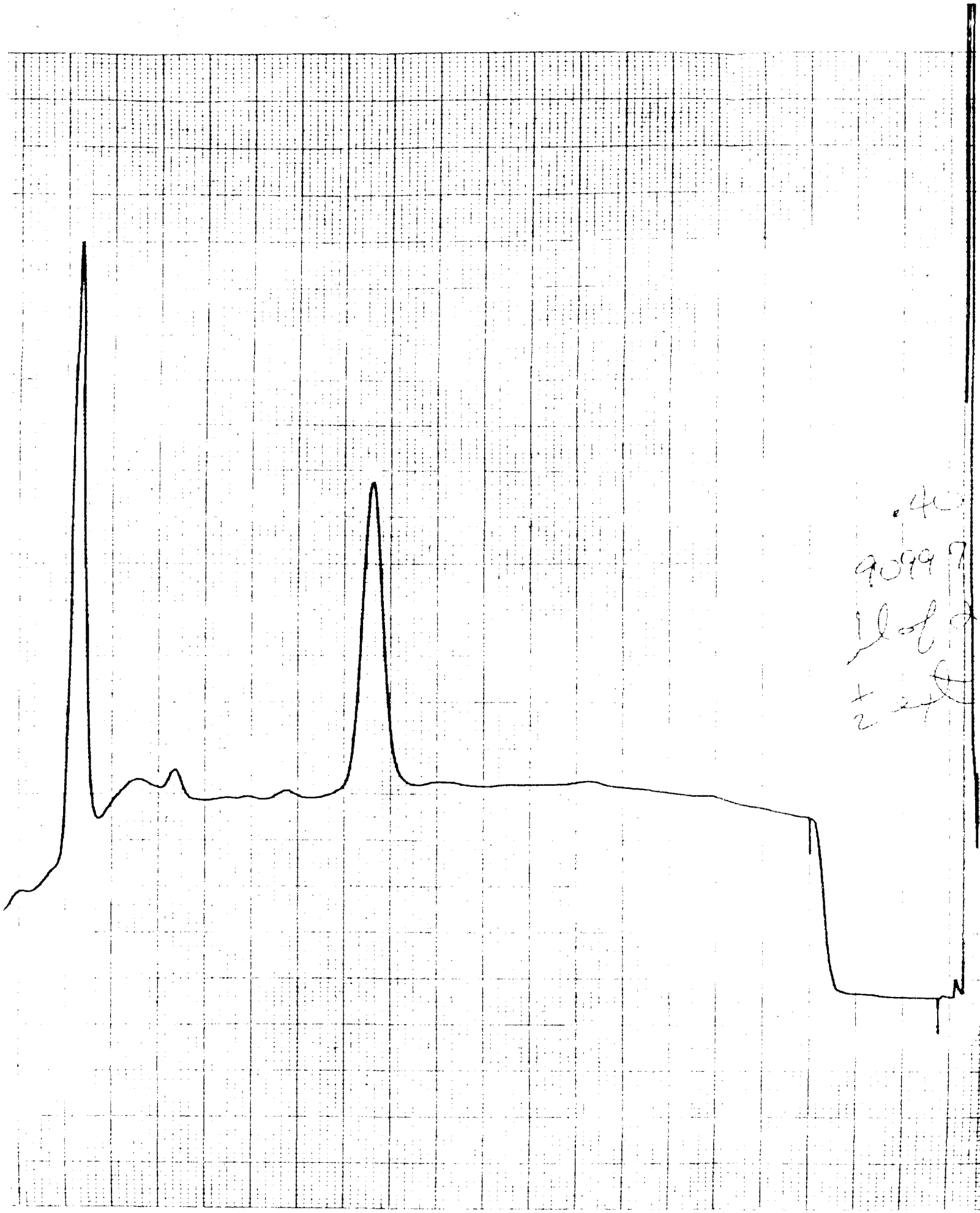
.03
EVALB
1.0 ml

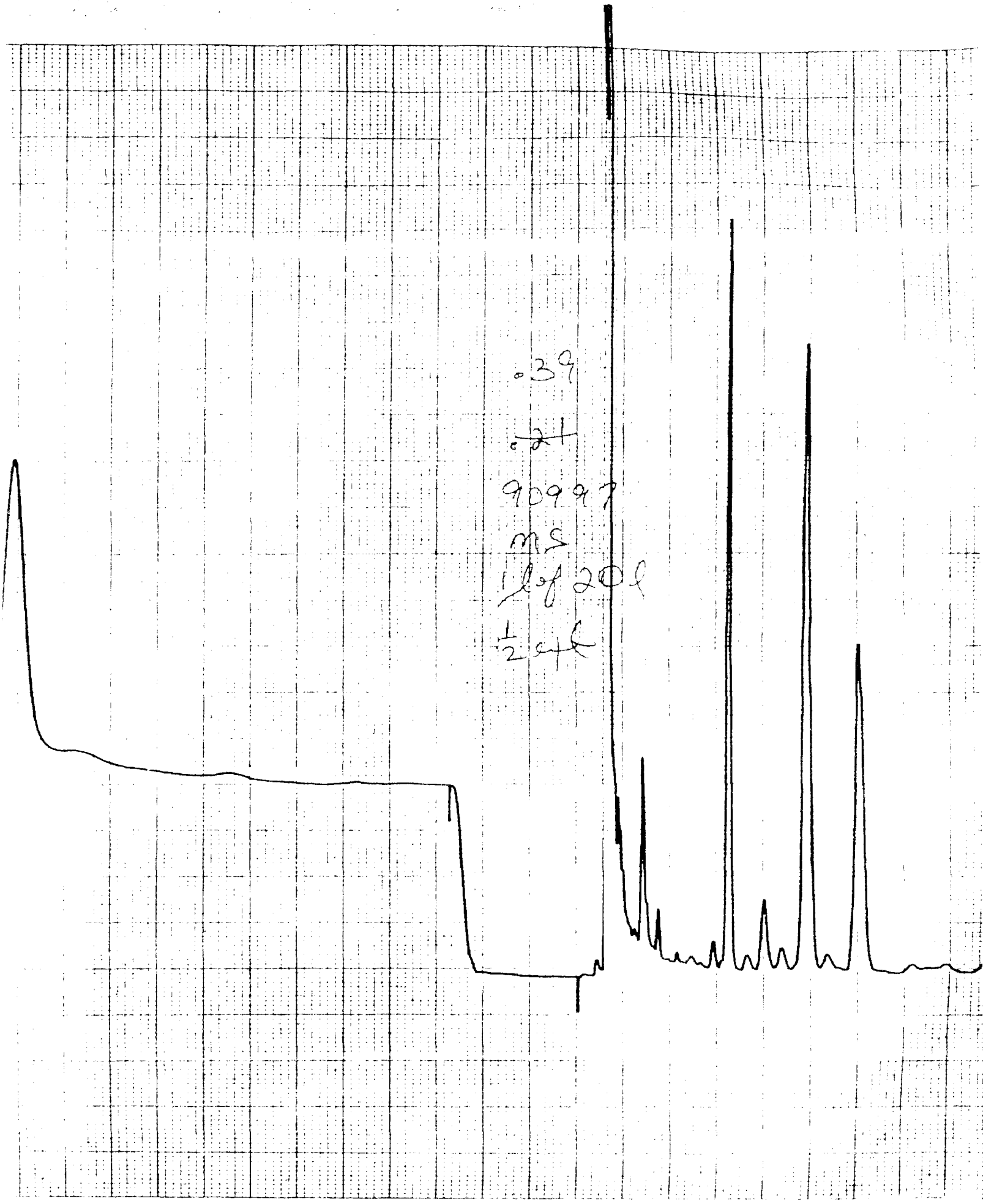


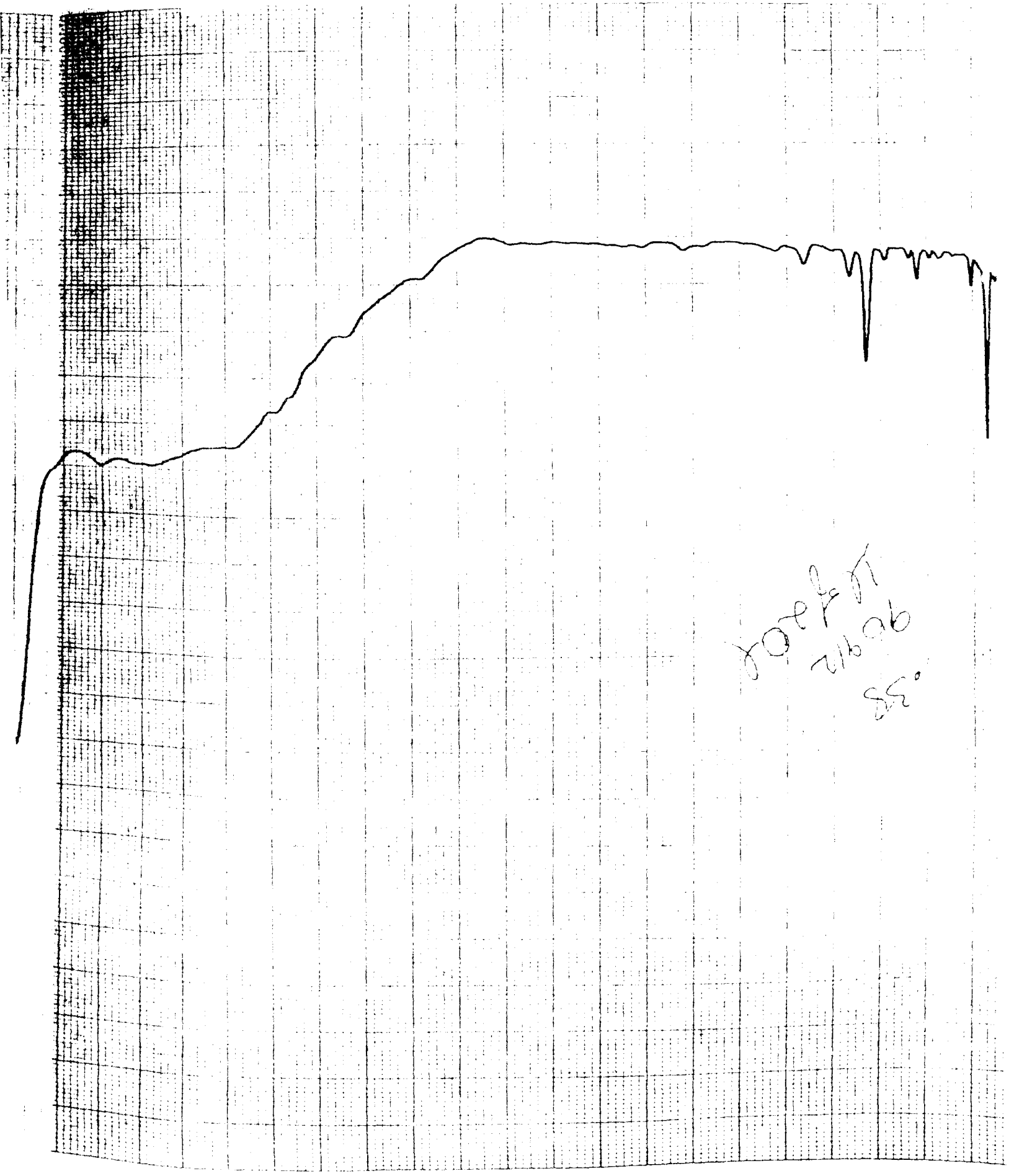
5A
H5A .02 etc
DB-1701
for 12 min
5° /min for 5 min
to 225°C for 15 min
EVALA
.02
1.0 ul



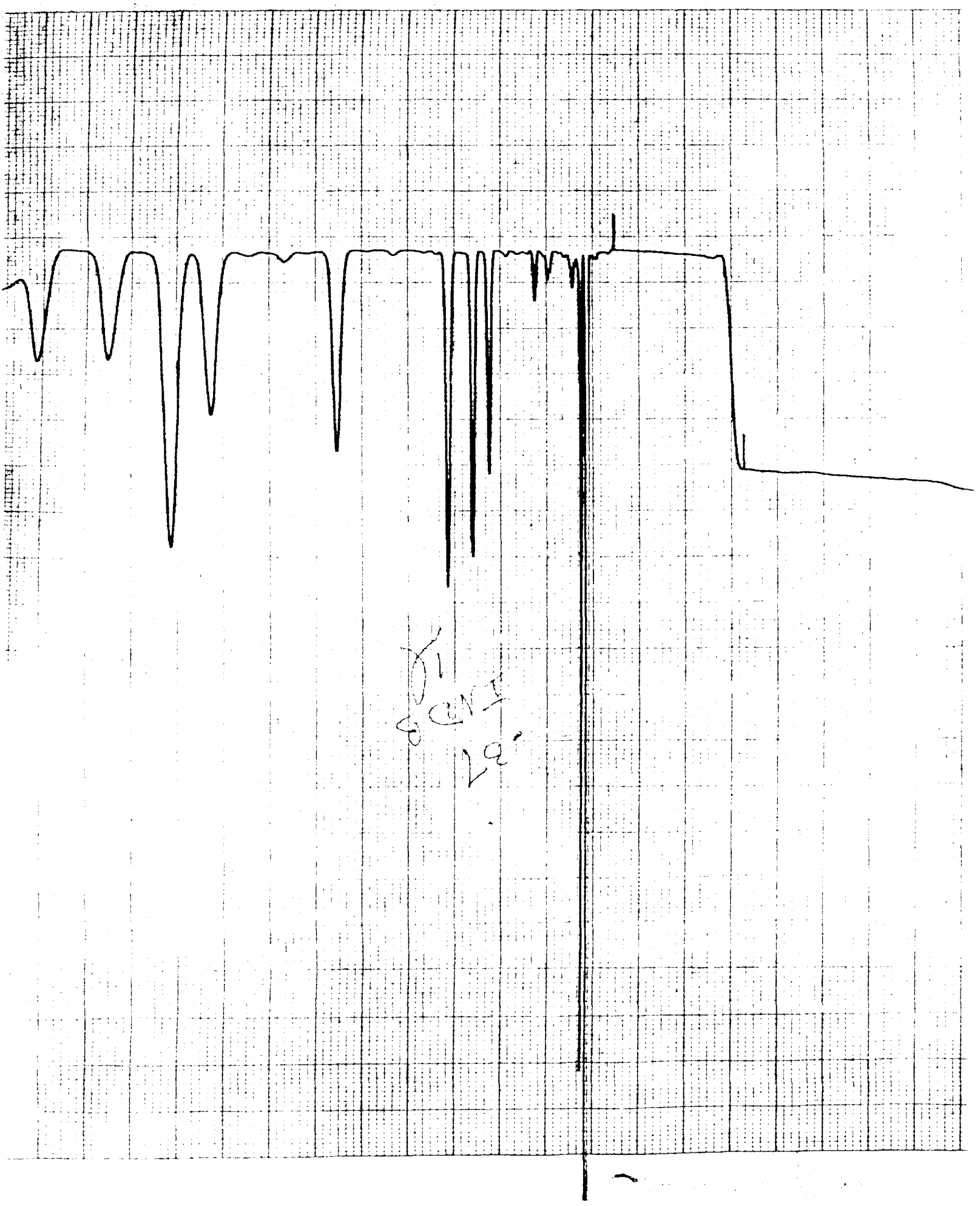

.01
FALSE INJECTION

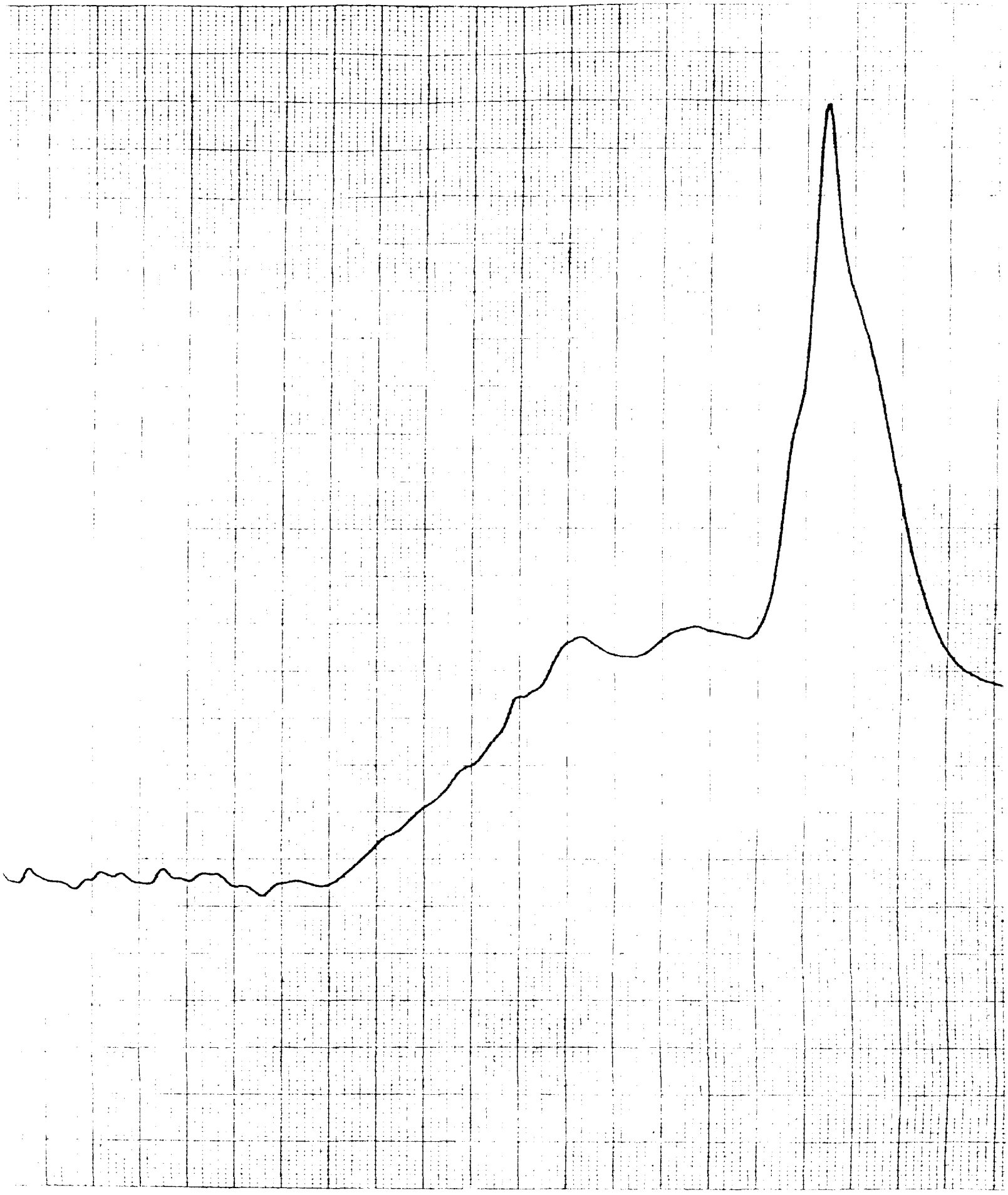


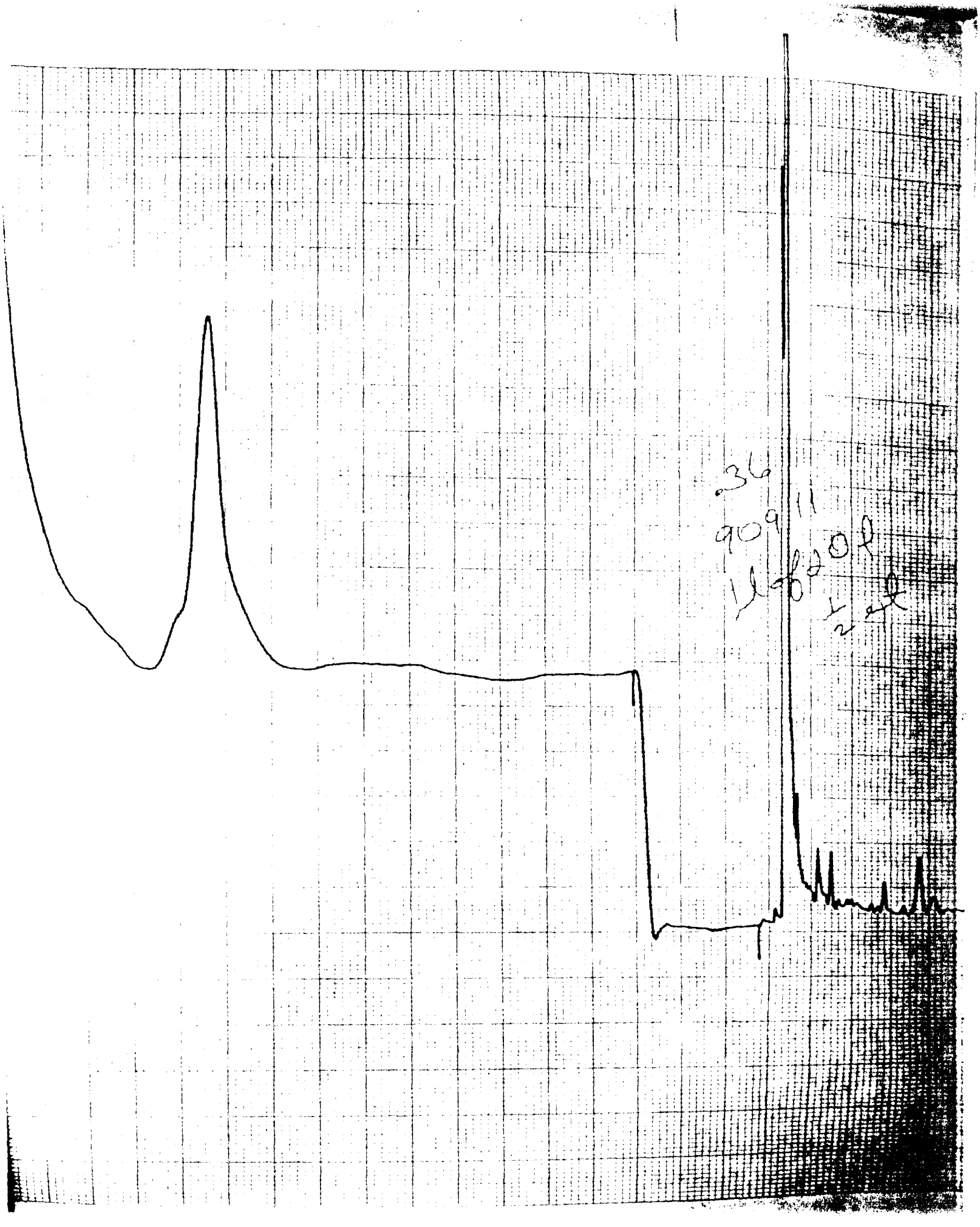

.39
~~.21~~
90997
MS
1 of 20 l
½ ext

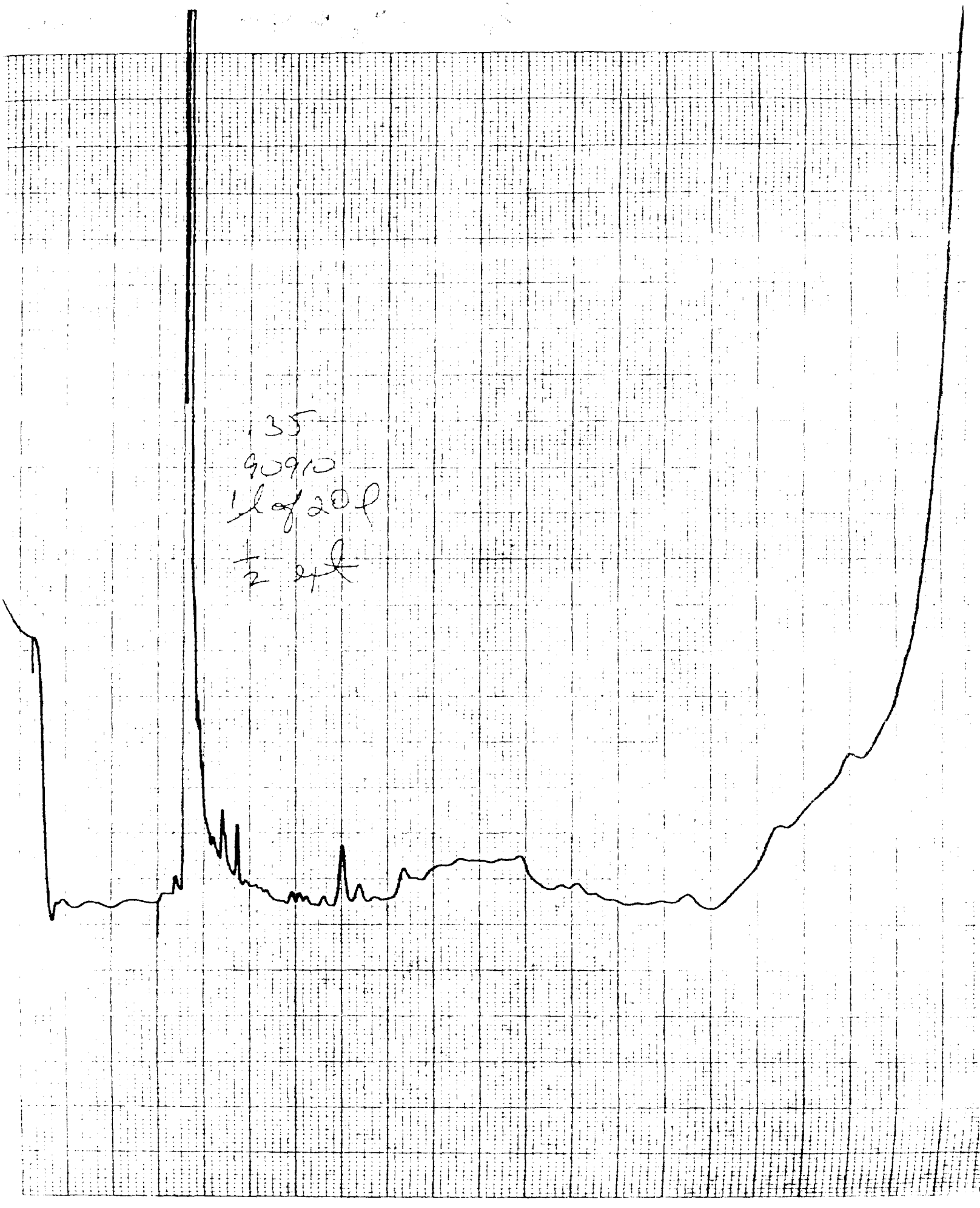


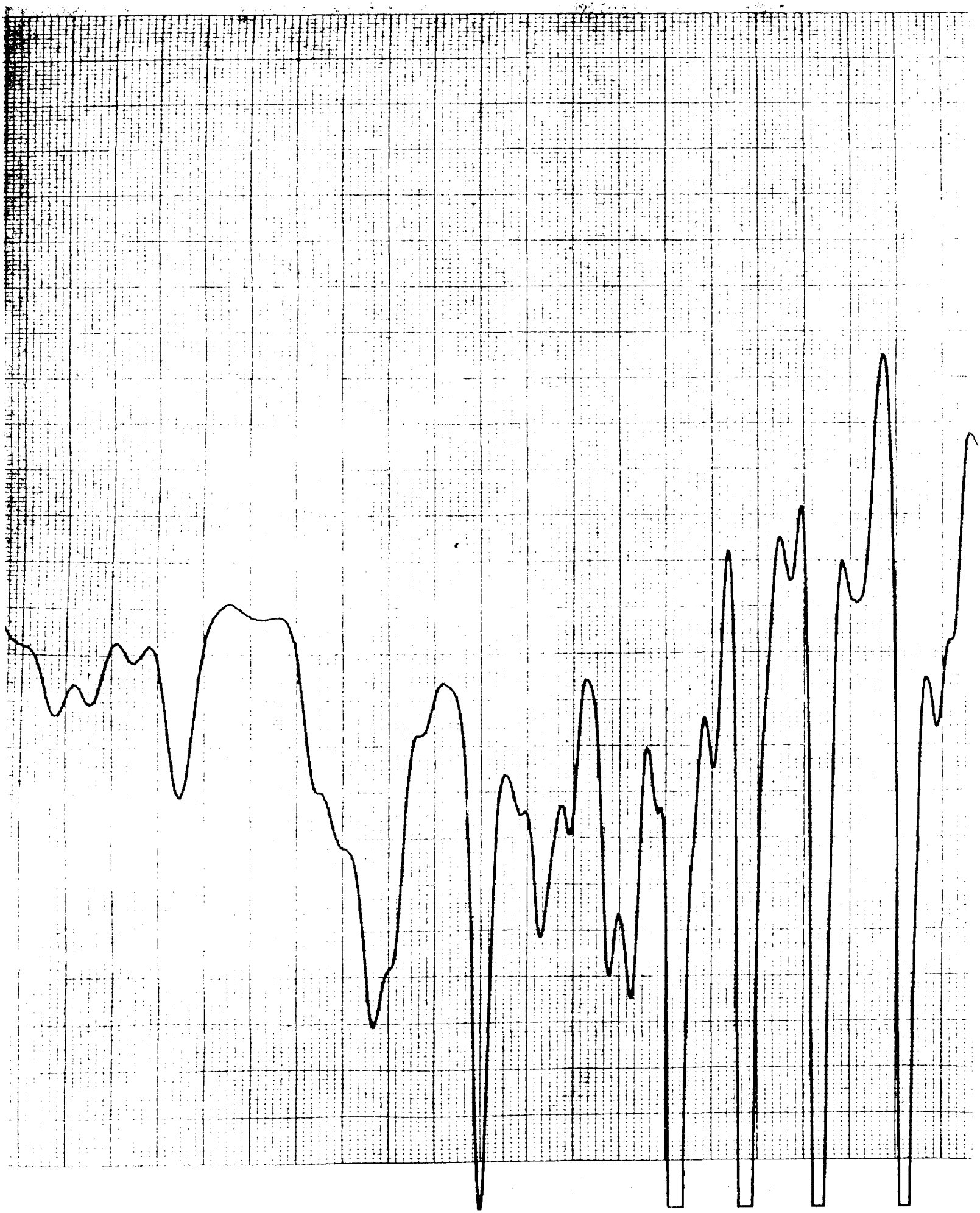
.38

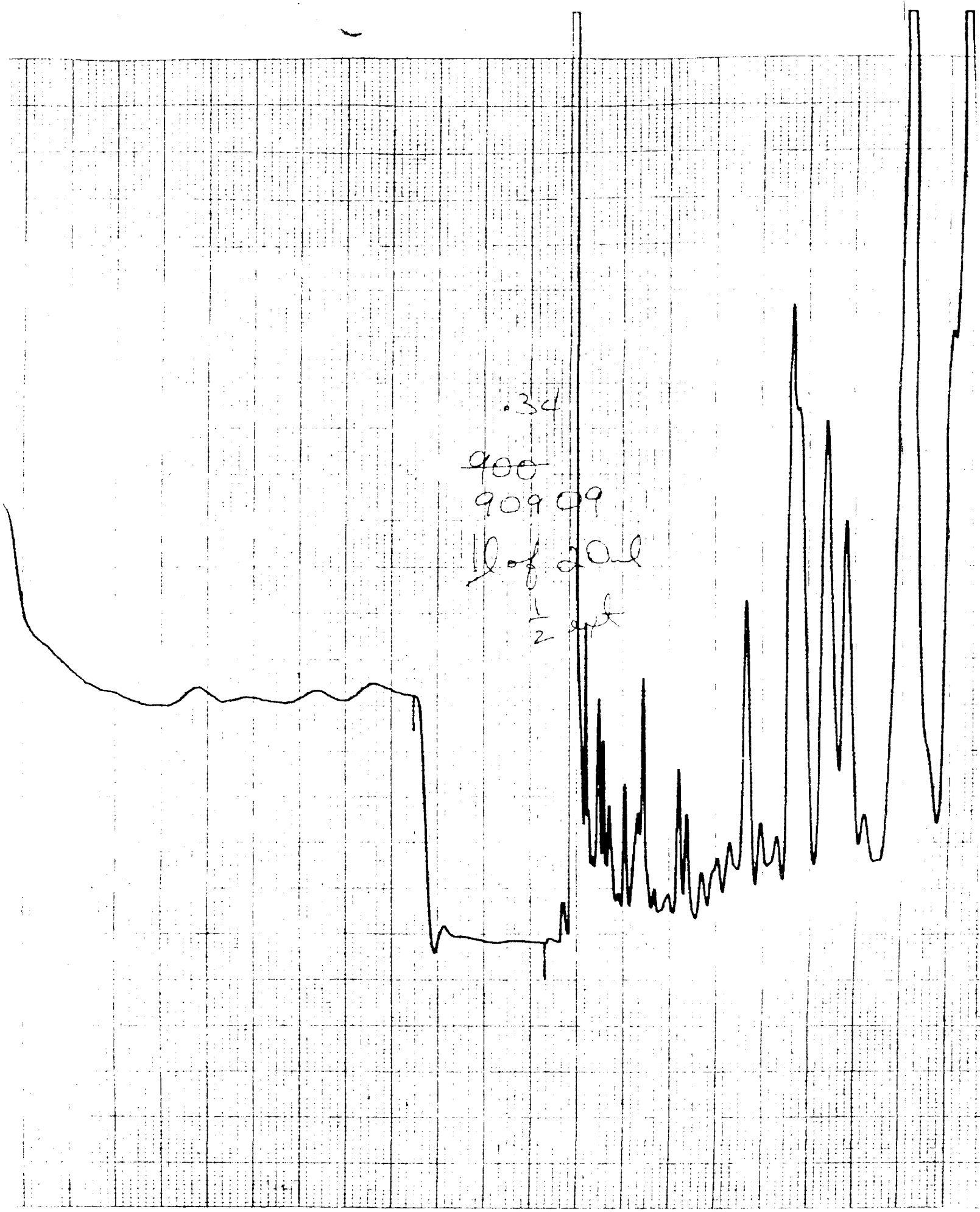

DI
8 CENT
29°

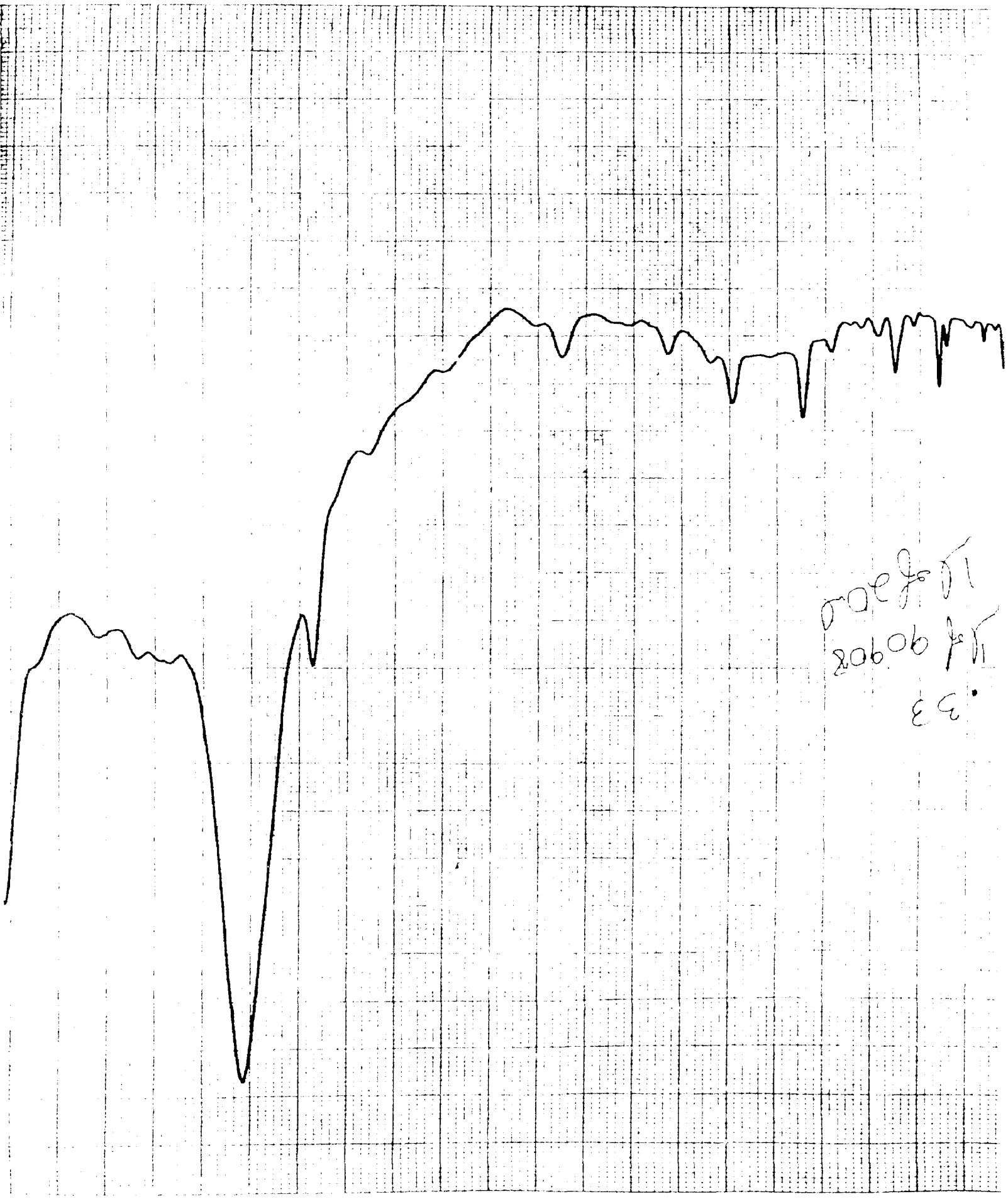


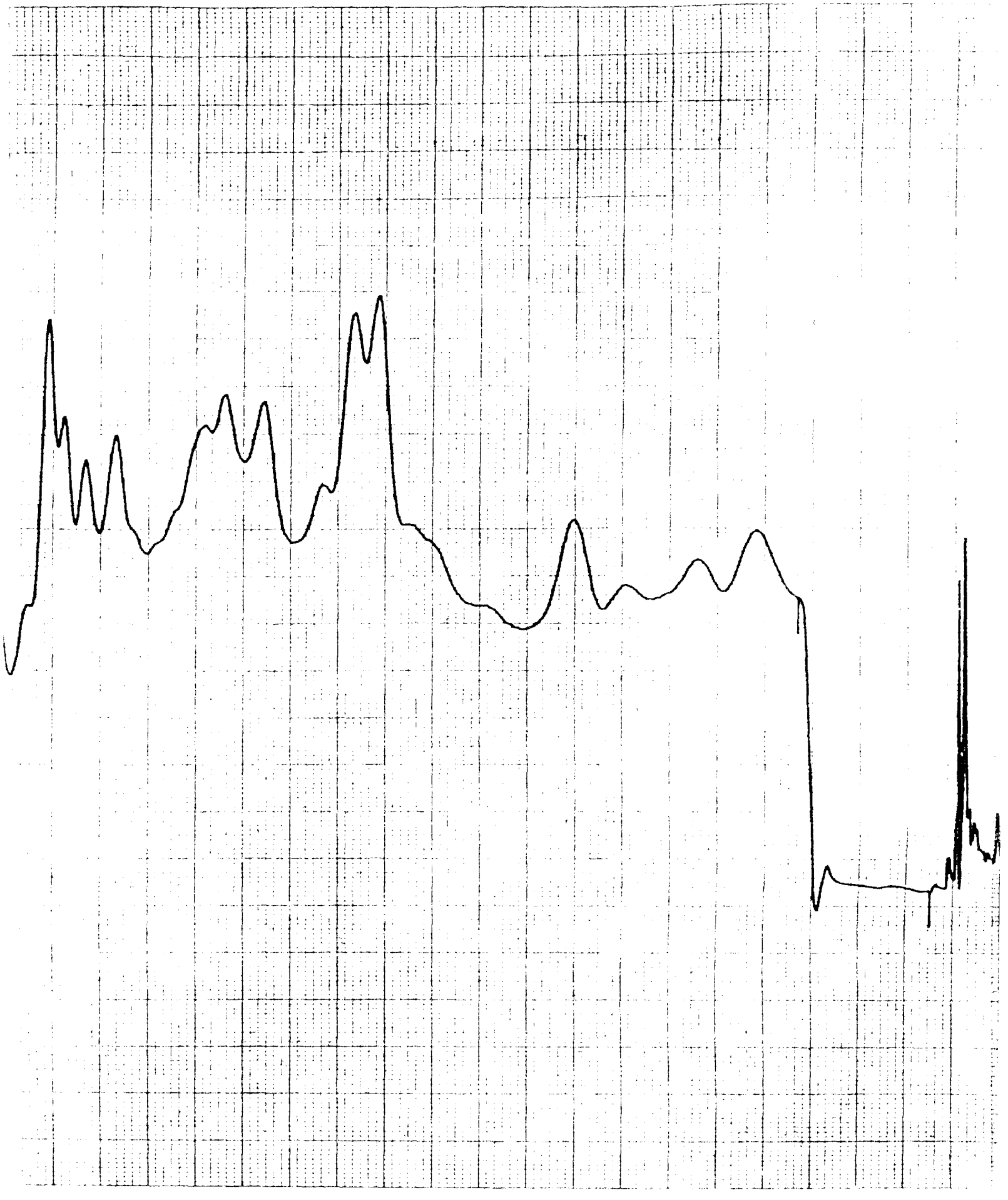

.36
90911
1 of 20
½ of

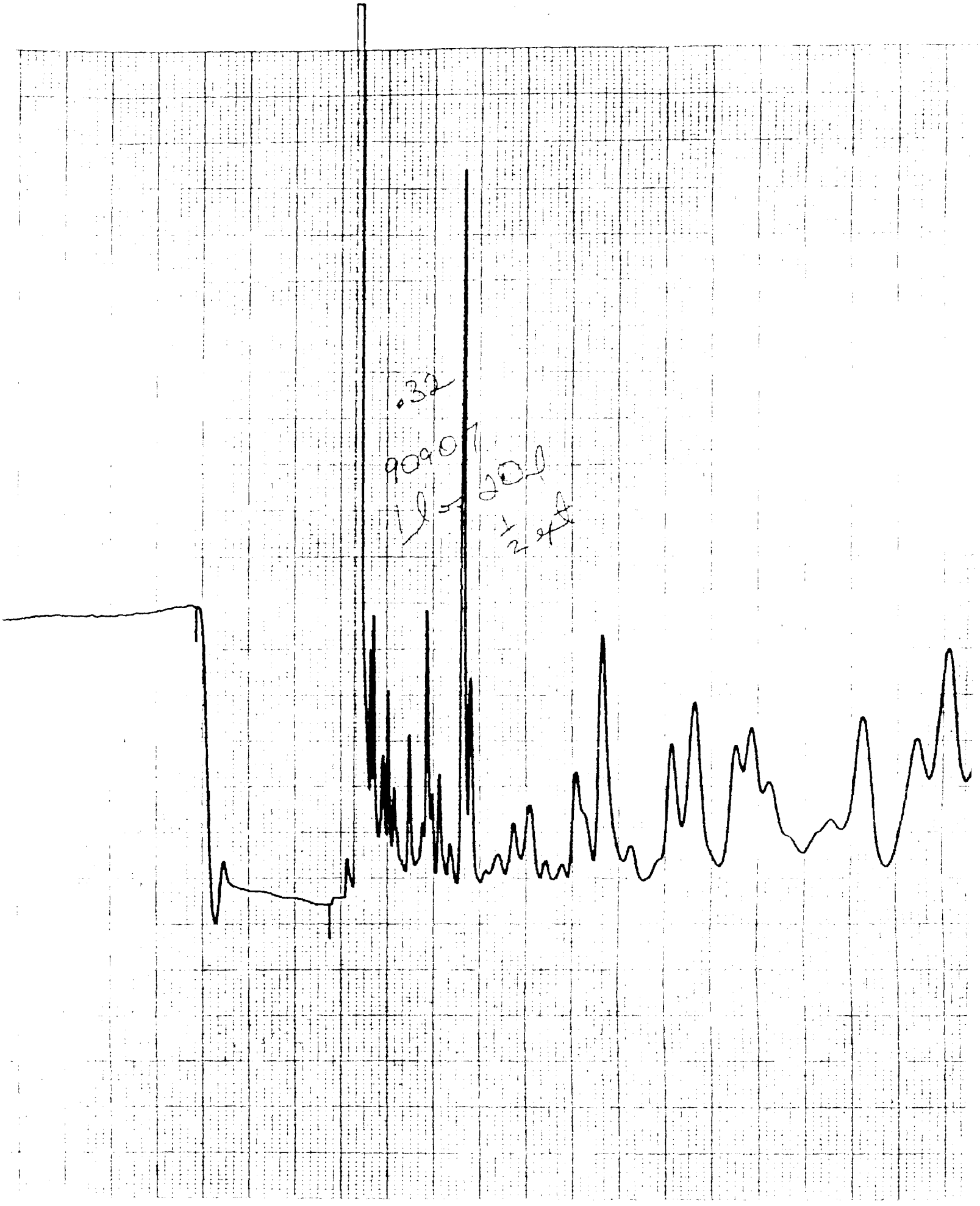

135
90910
1 of 20
1/2 ept

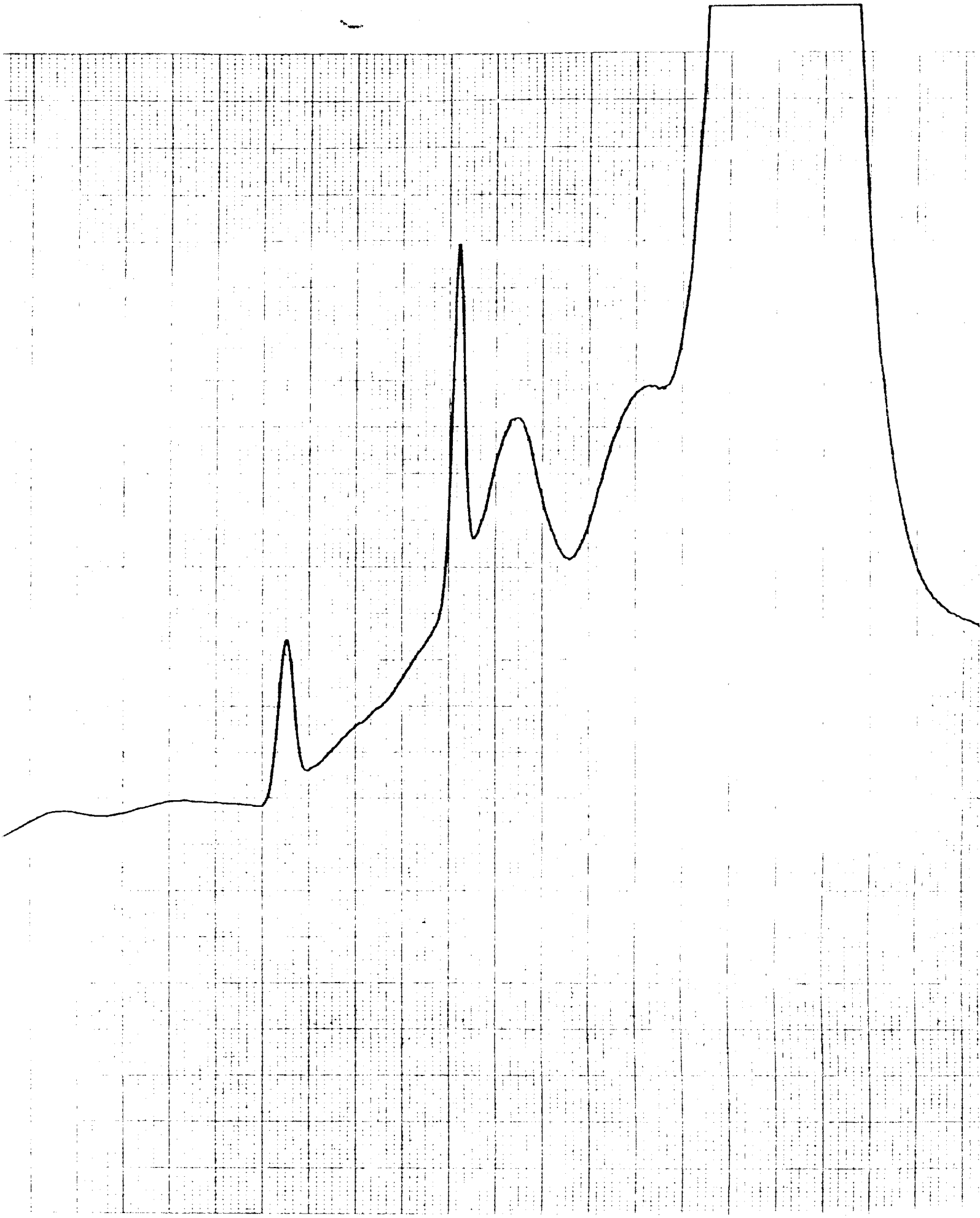


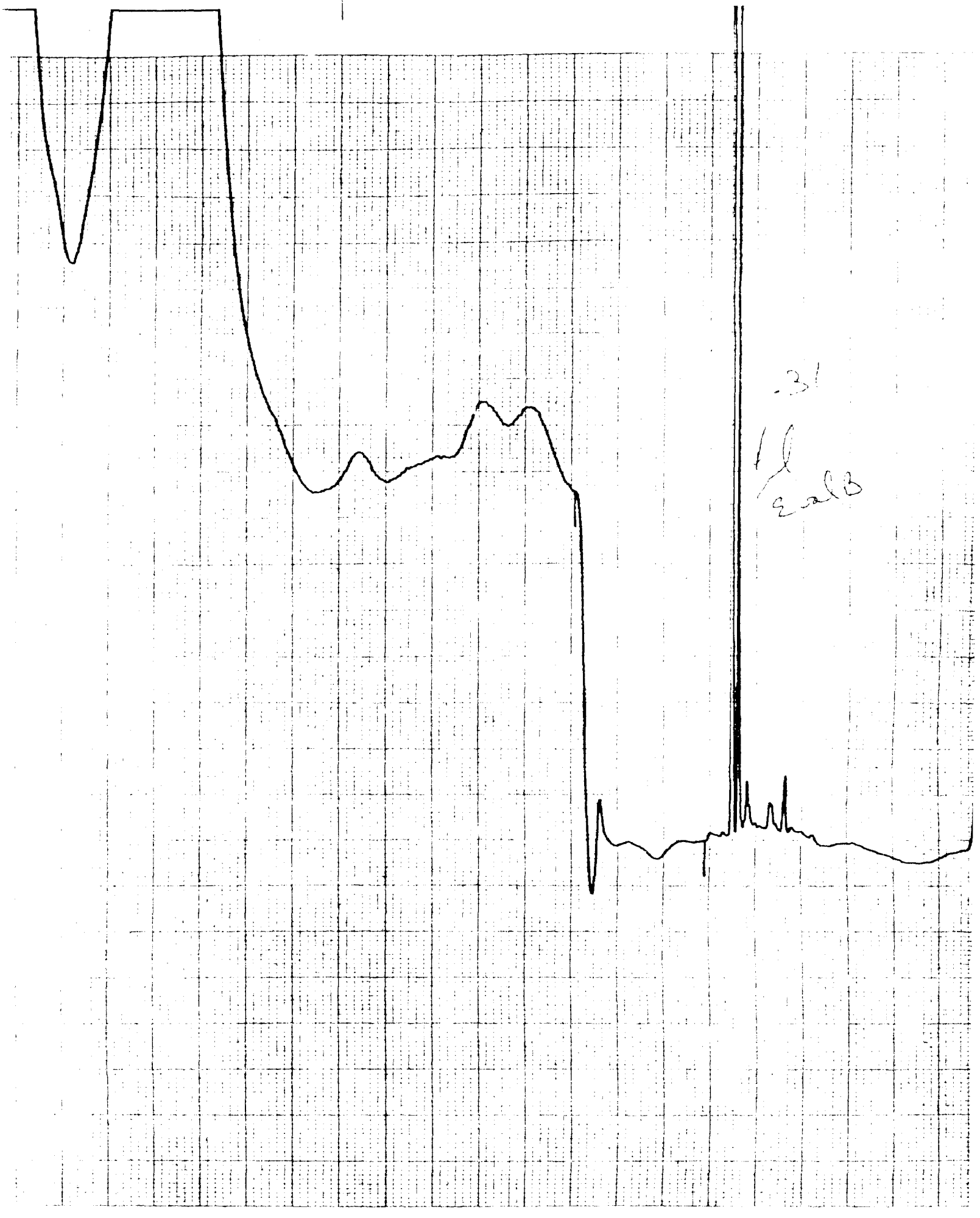

.34
~~900~~
90909
1l of 2 Oil
1/2 ext

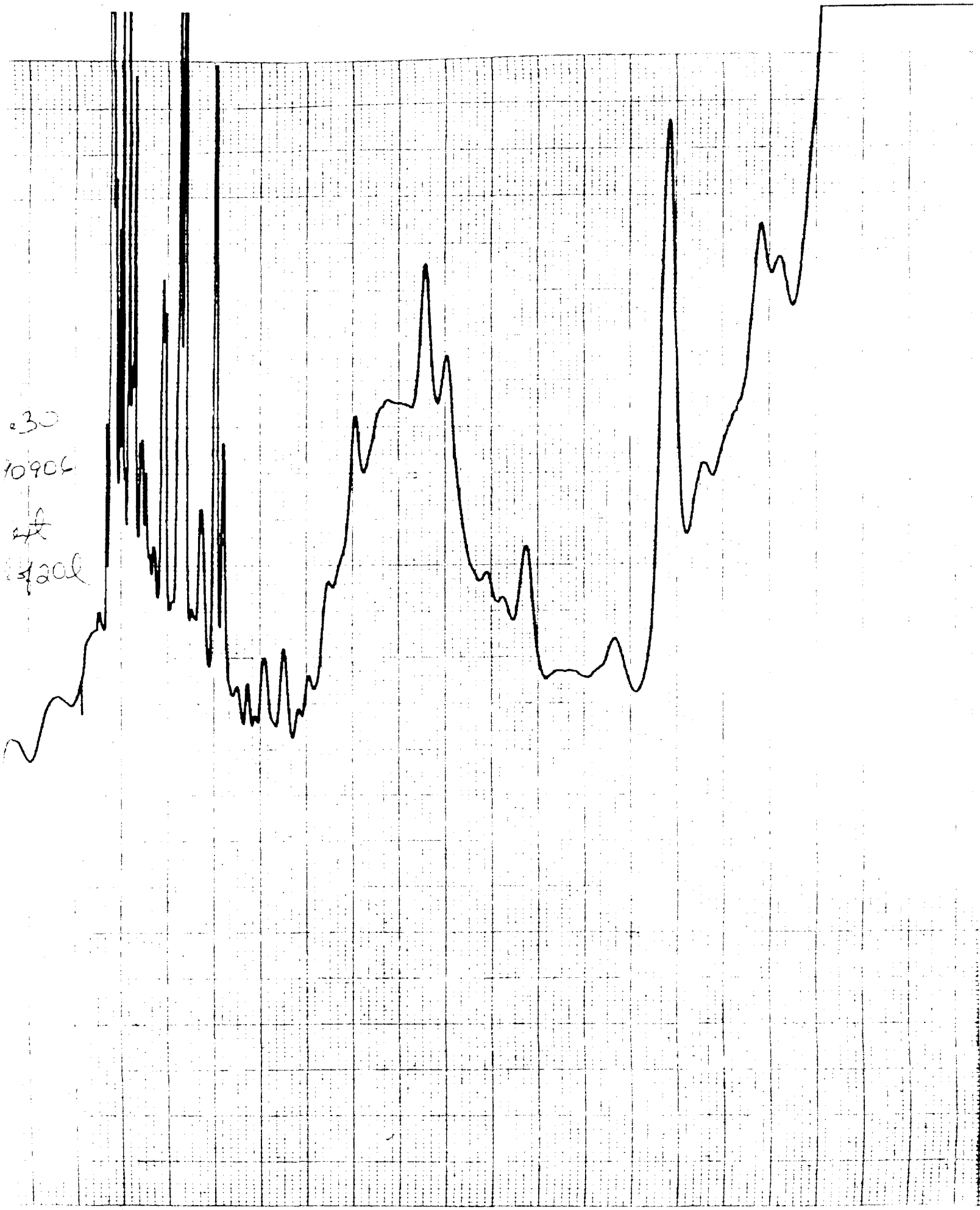


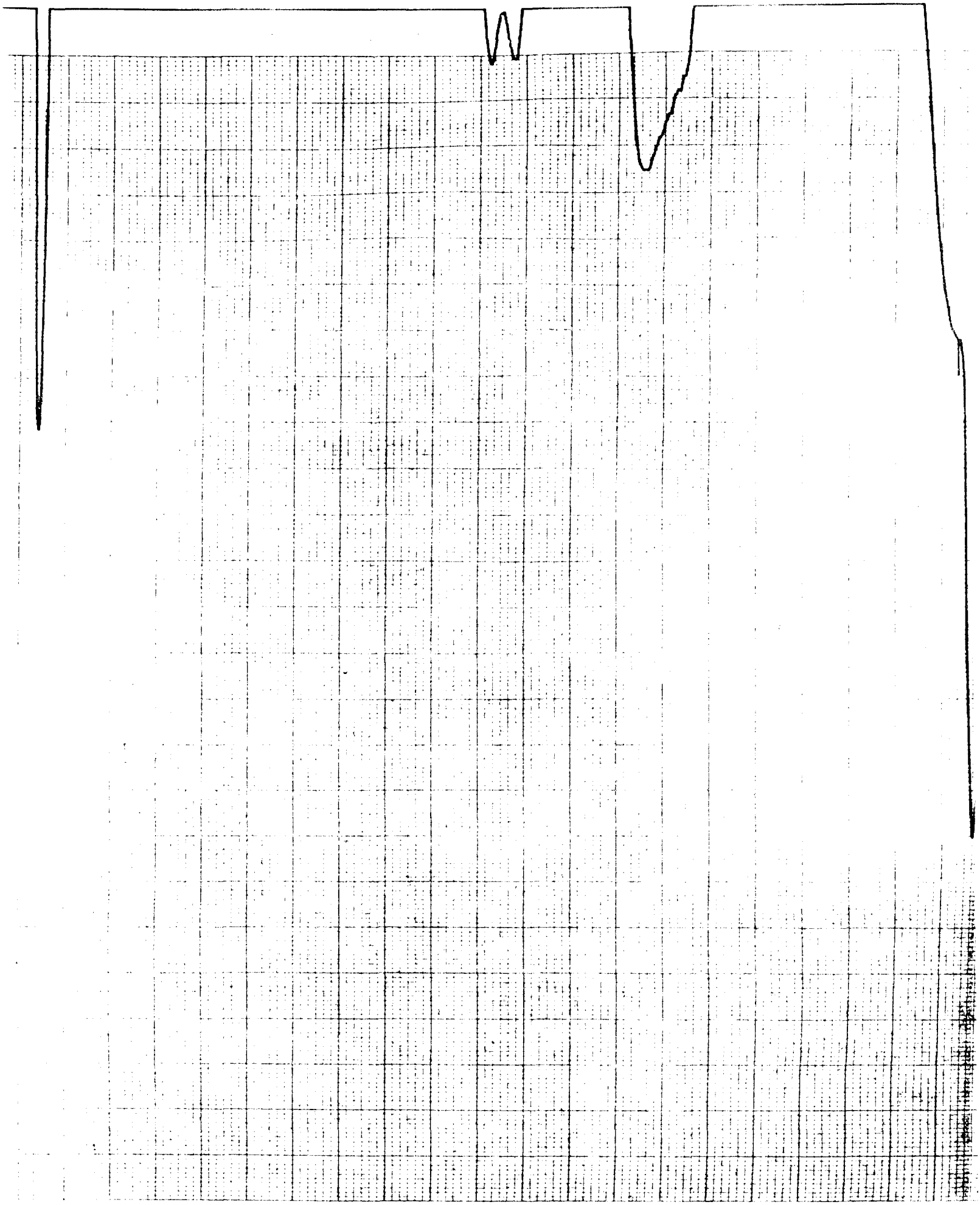


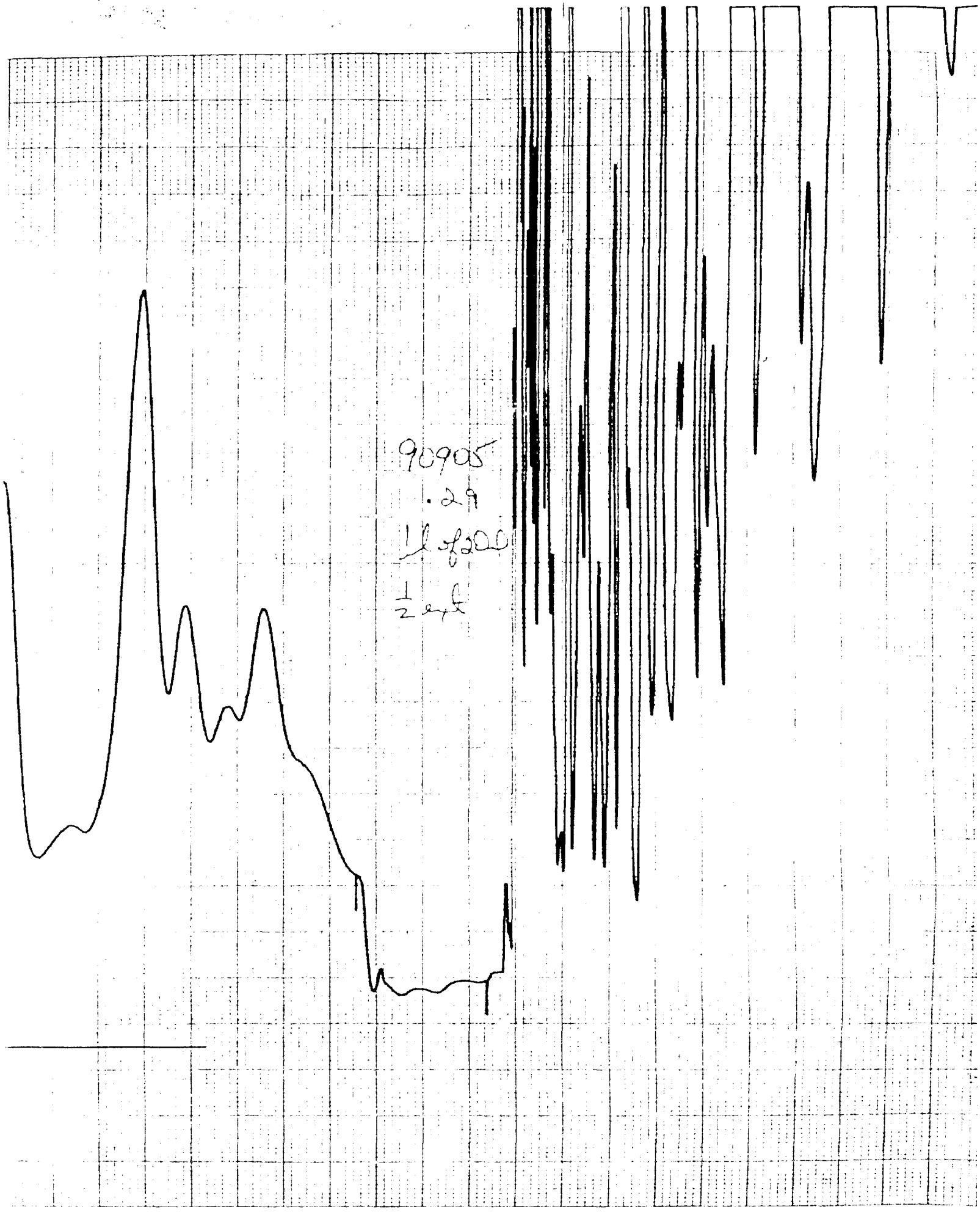

.32
90907
1 l = 20 l
1/2 ft

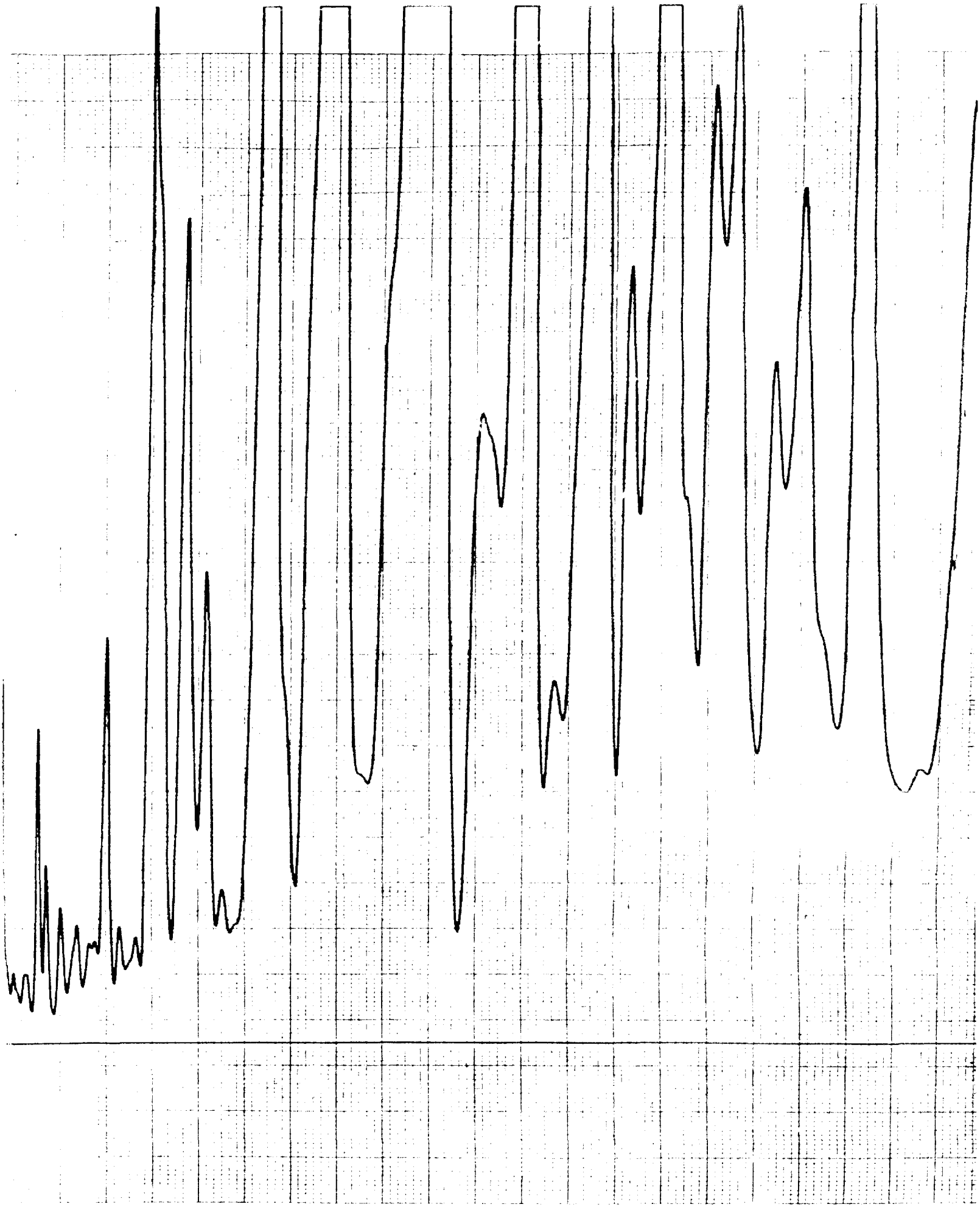


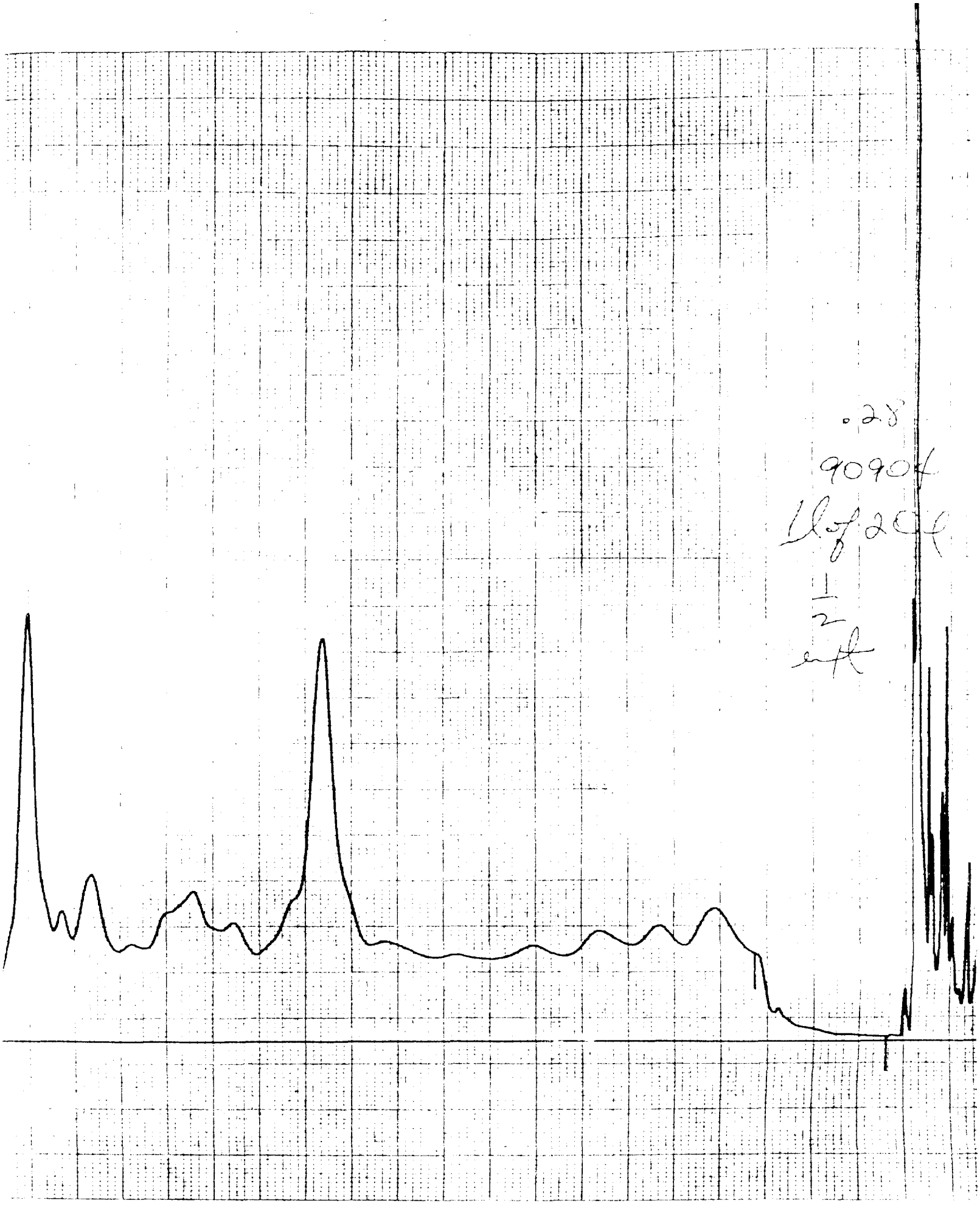

-31
Eal B

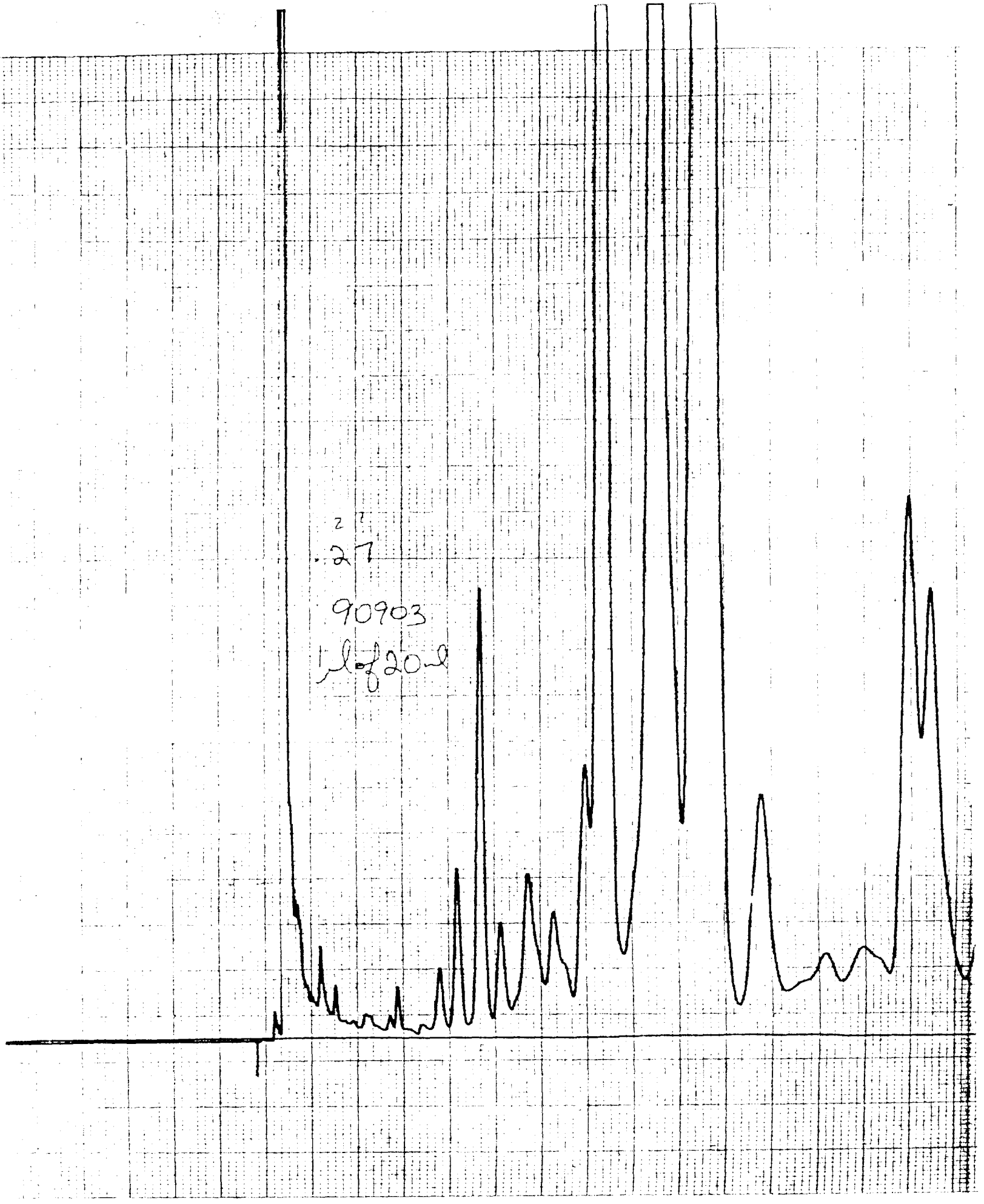

.30
10906
ext
of 20l

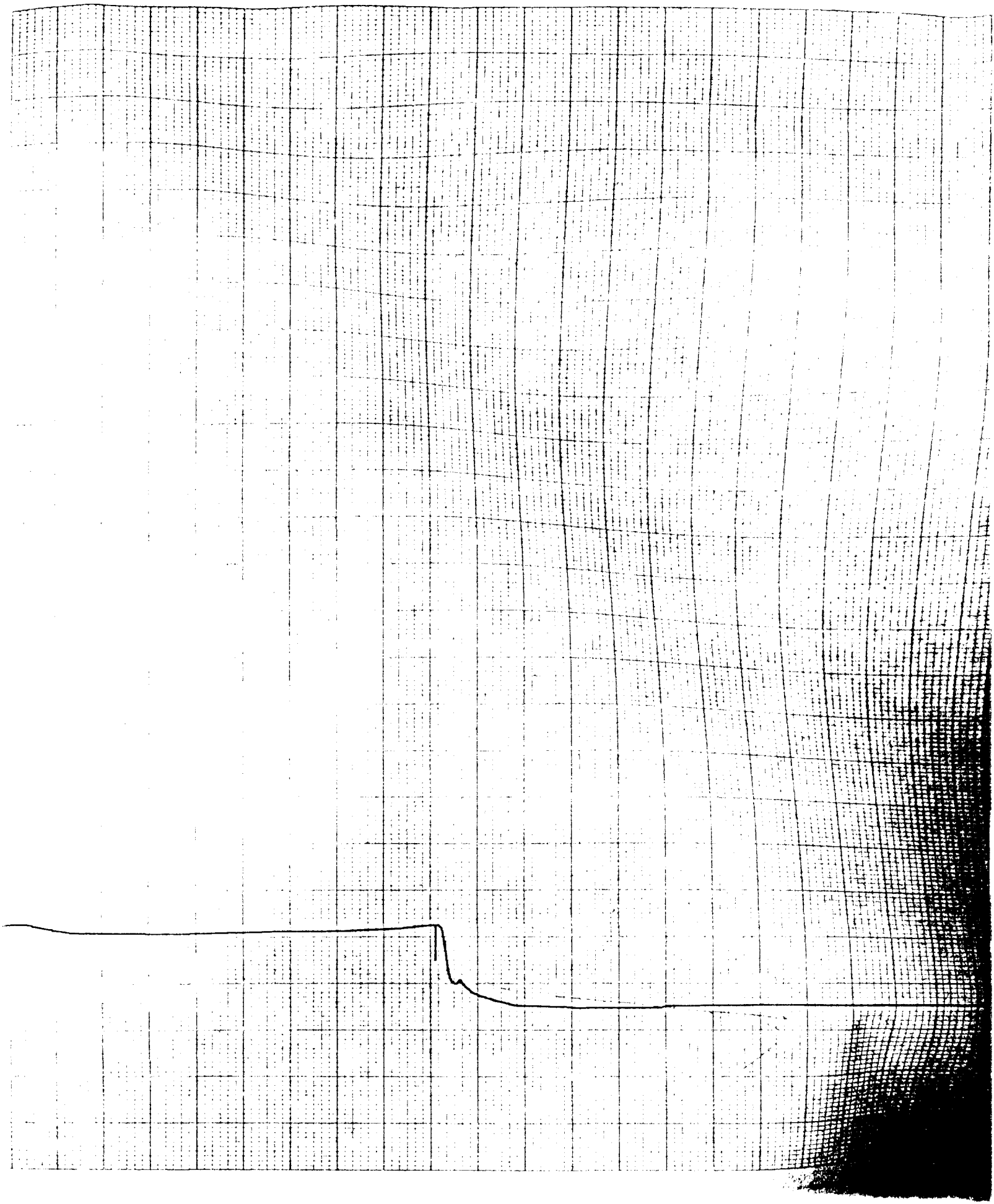


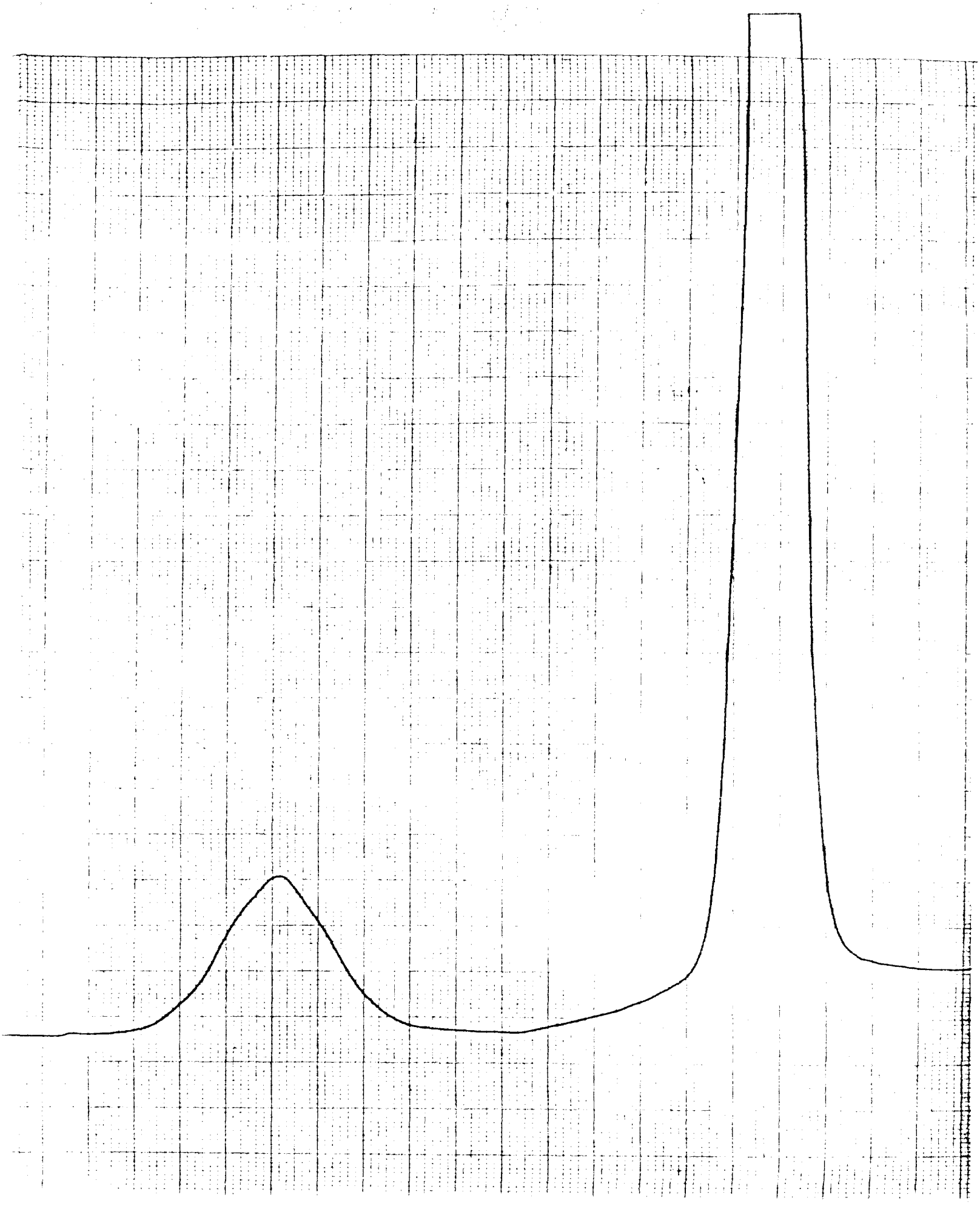

90905
.29
11 of 200
1/2 eyt

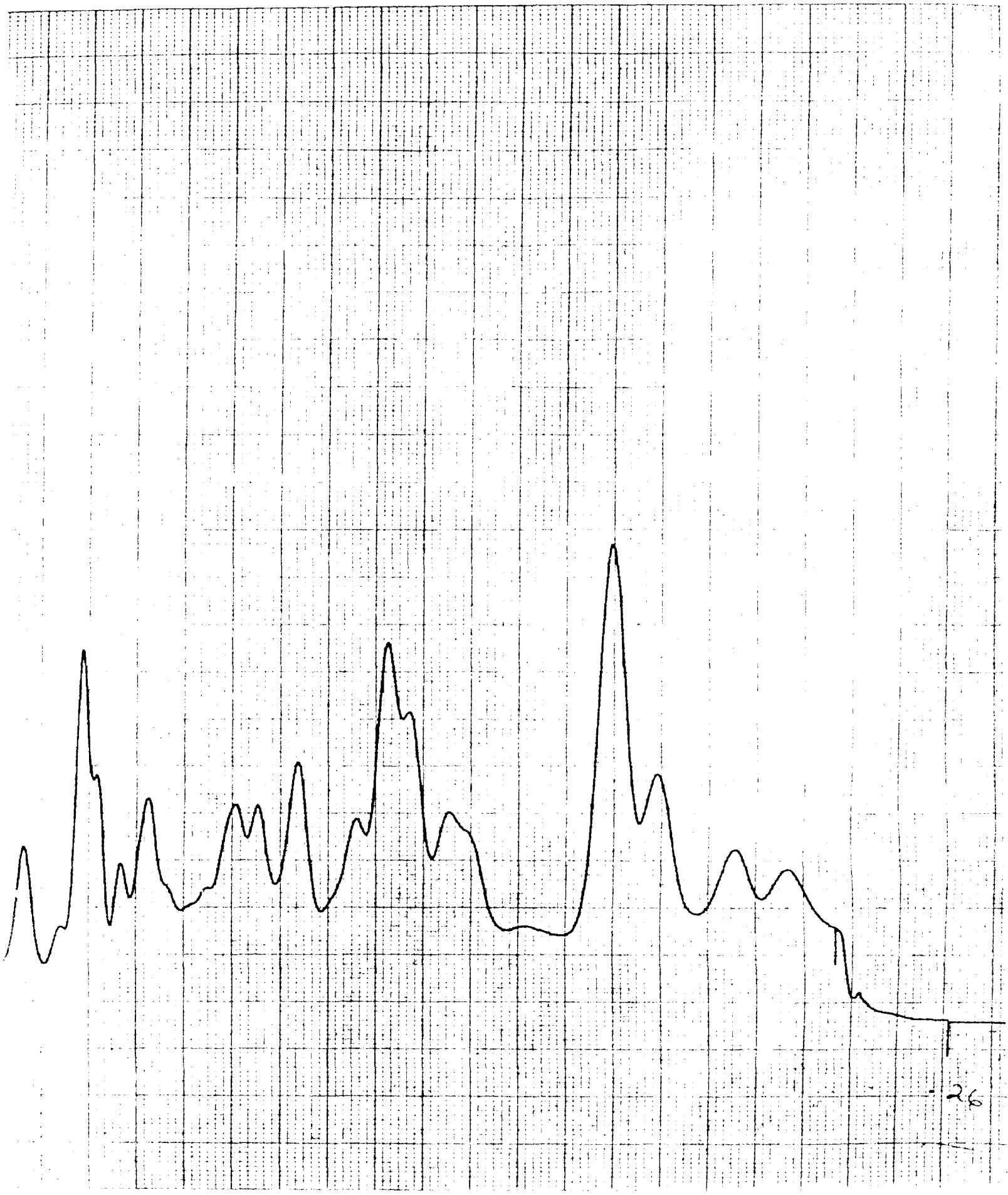



.28
90904
1 of 2
1/2
eft

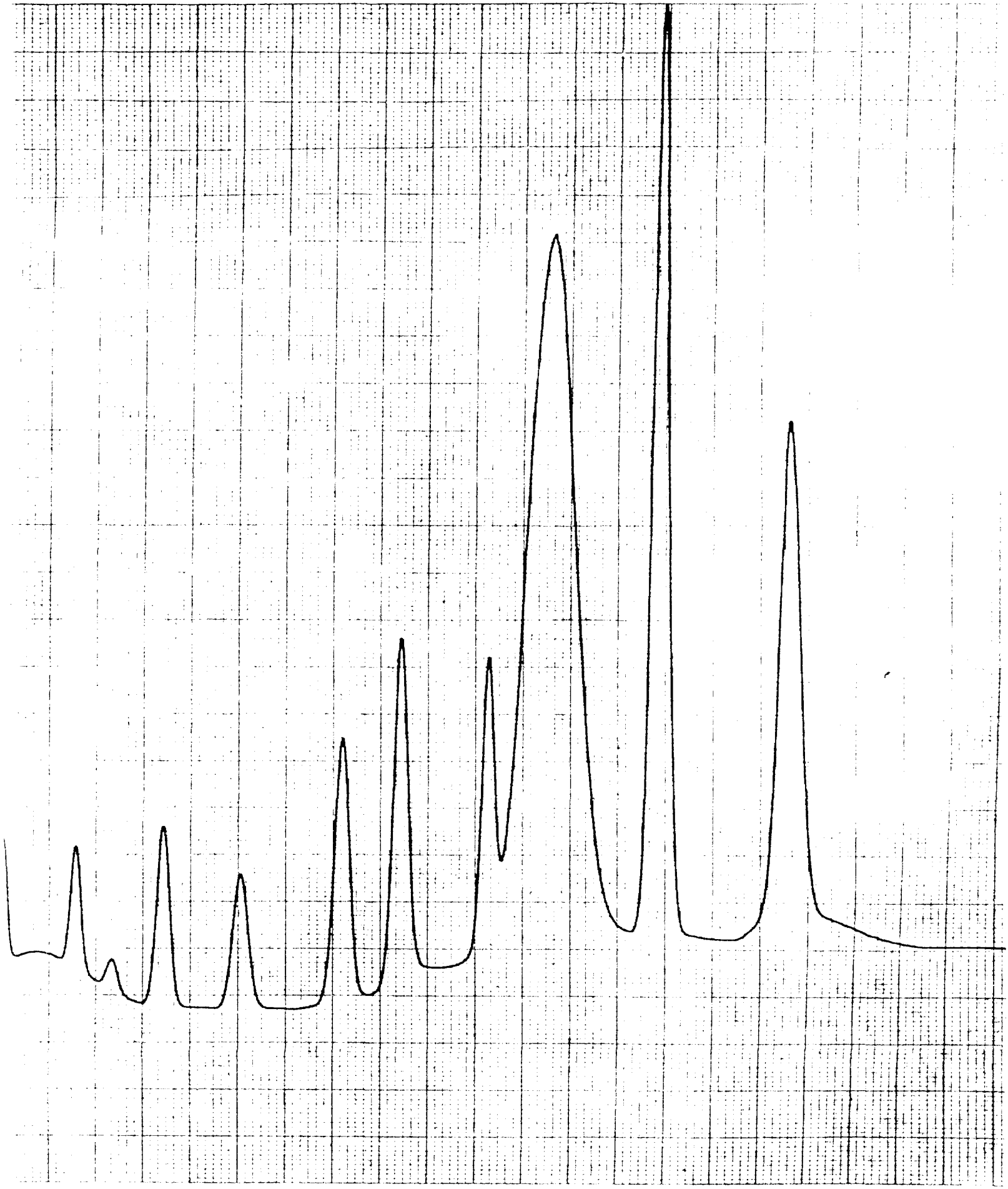

27
90903
1 of 20

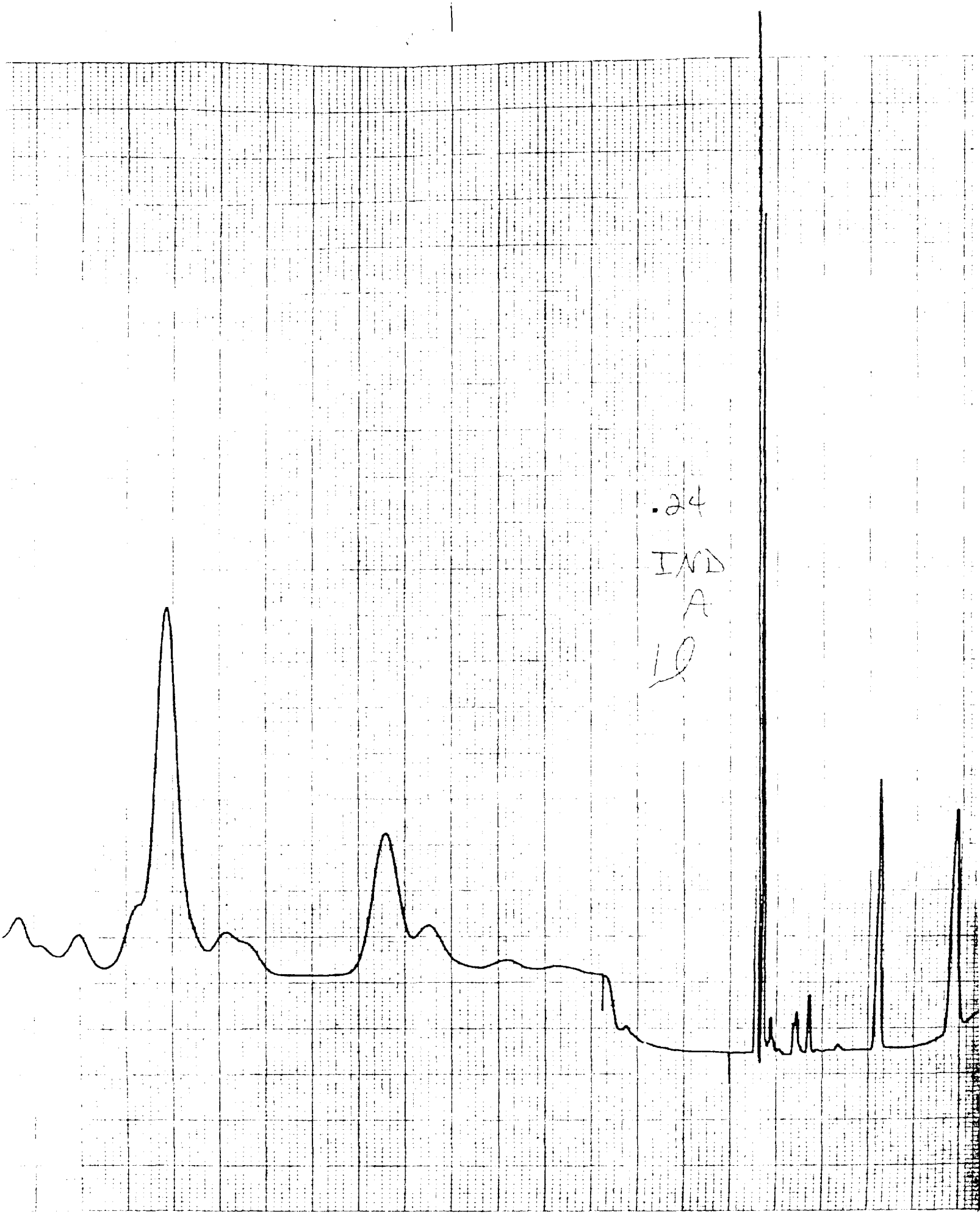


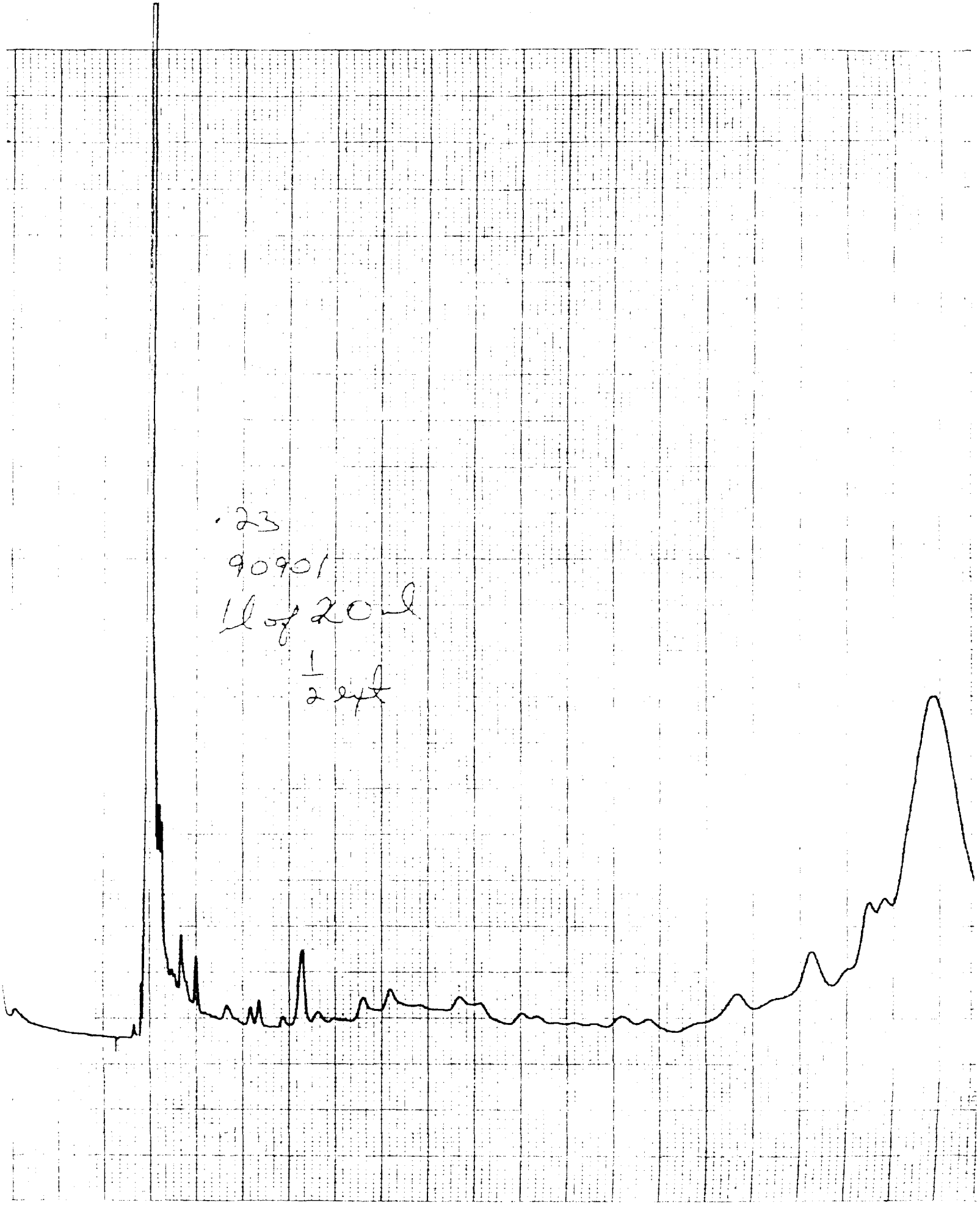


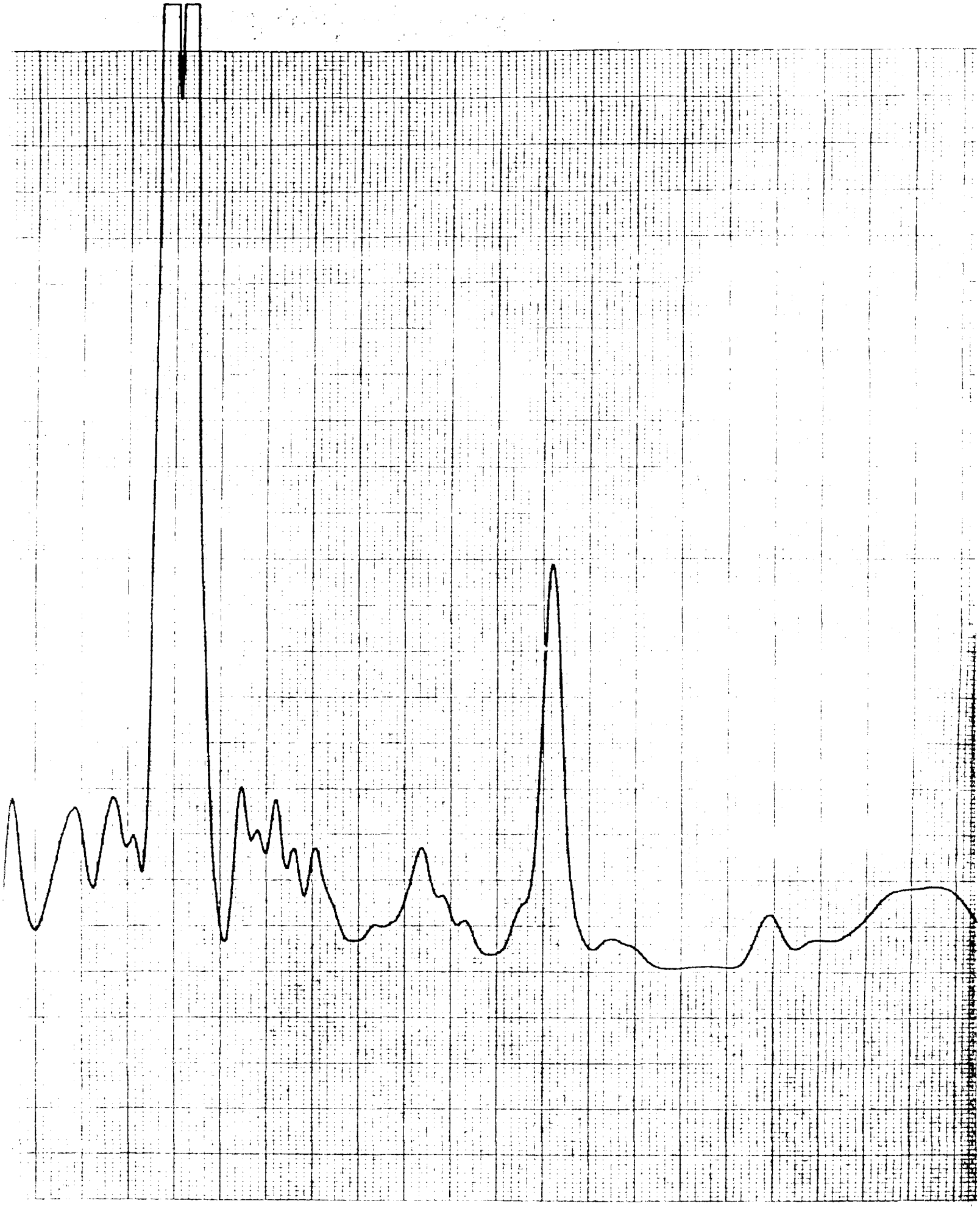

26

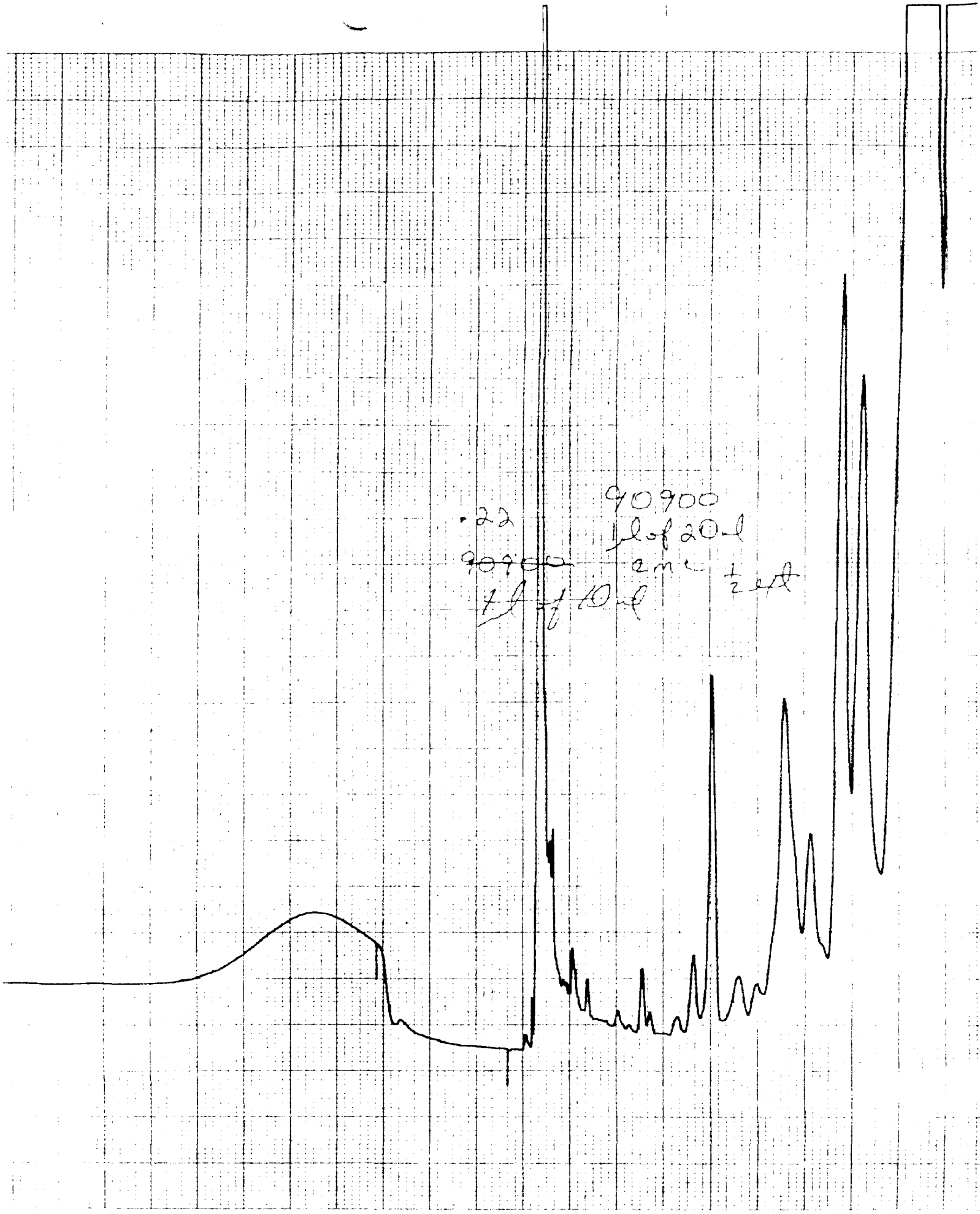
.25
90902
1l of 20l

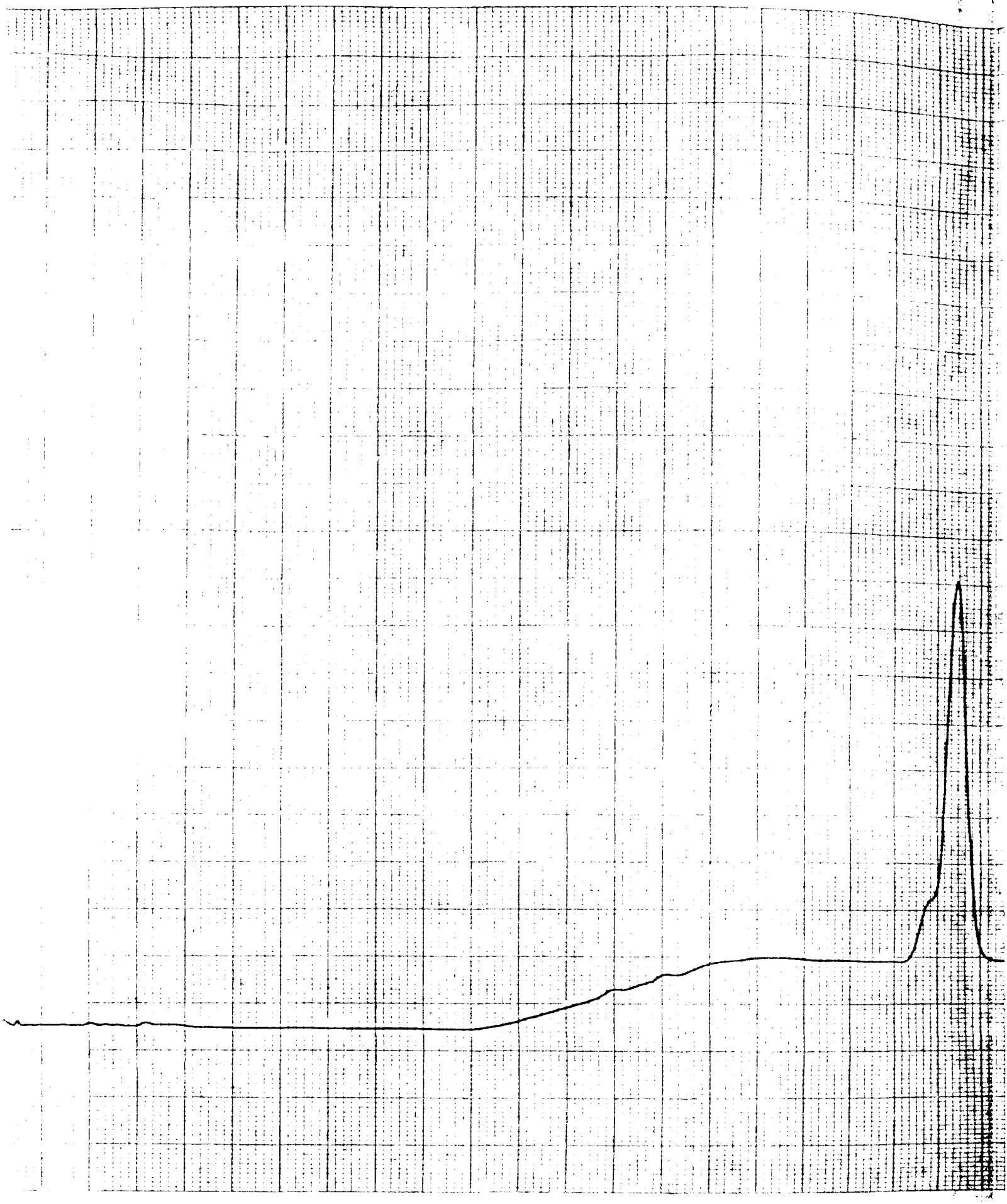



.24
IND
A
10

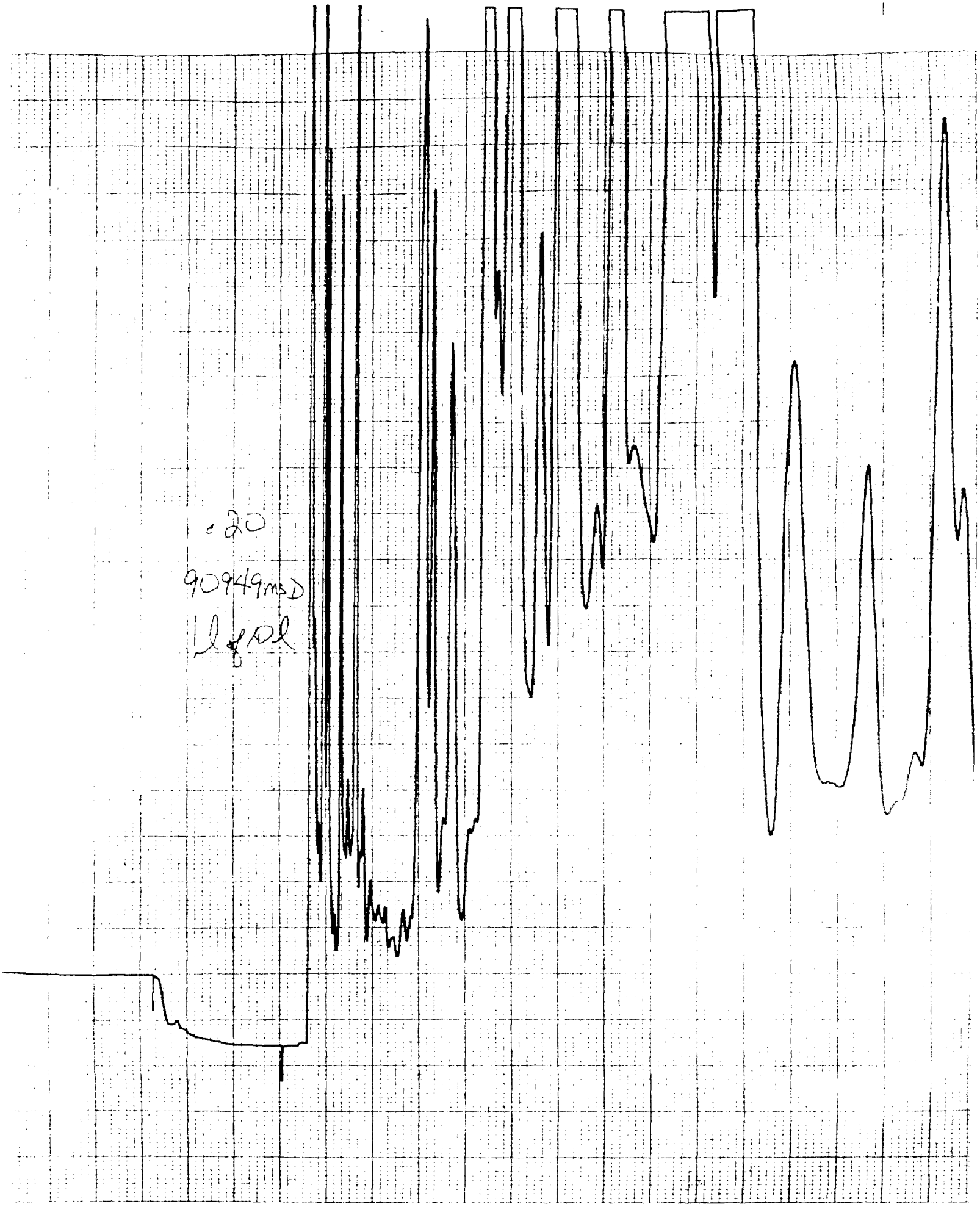

.23
90901
1l of 20 ml
1/2 ext

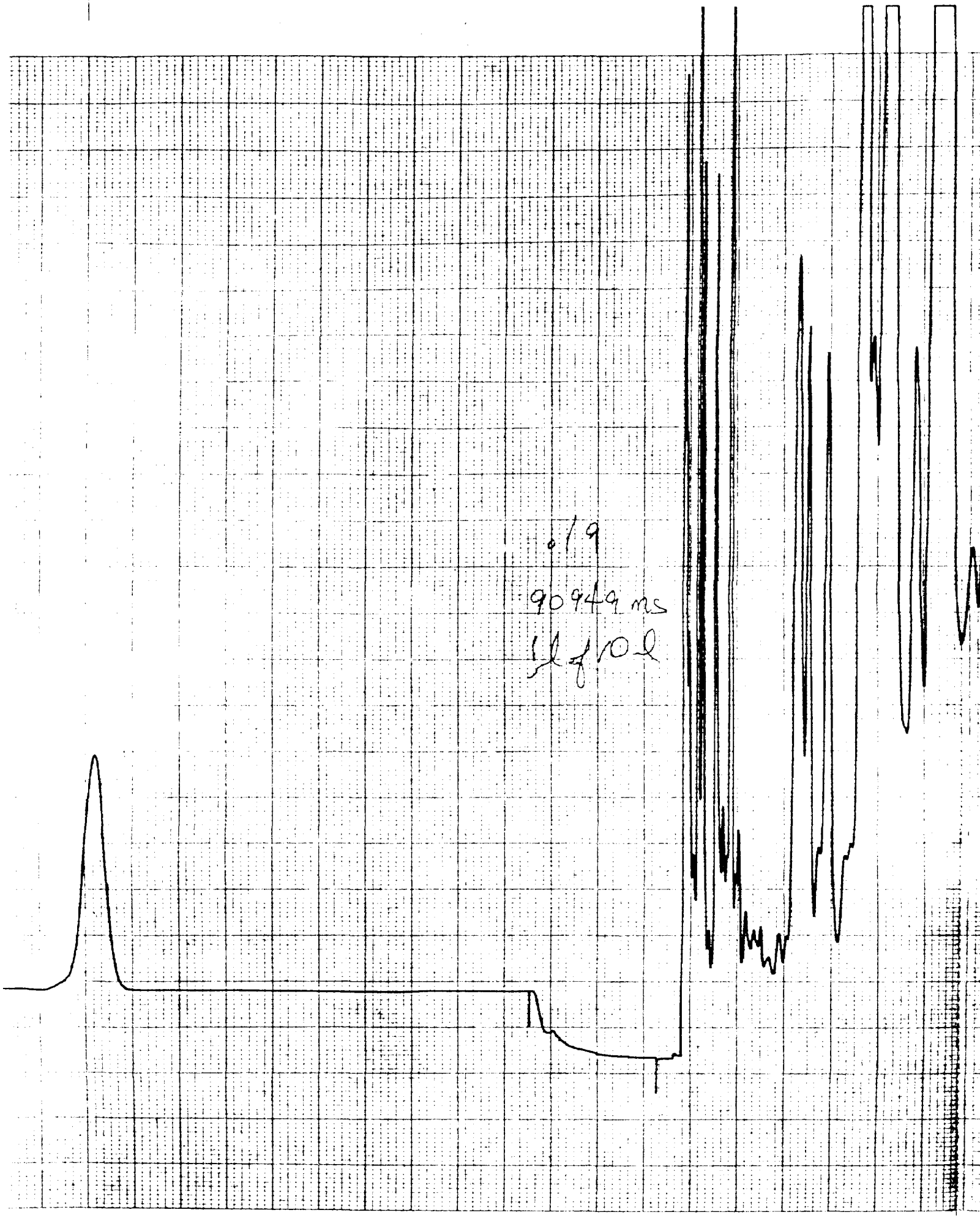



.22
90900
1 l of 20 ml
2 mc
½ ext
~~90900~~
~~1 l of 10 ml~~

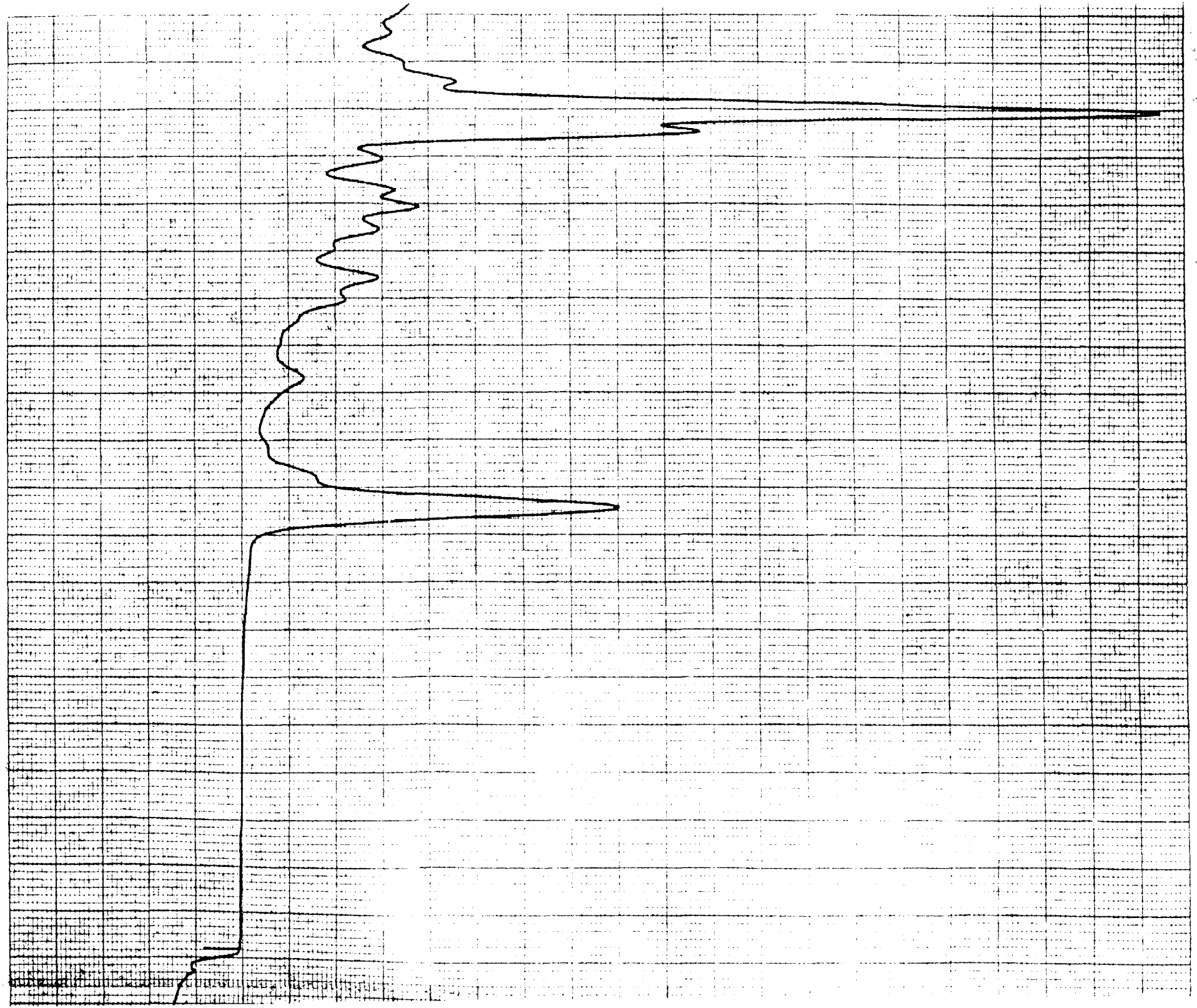


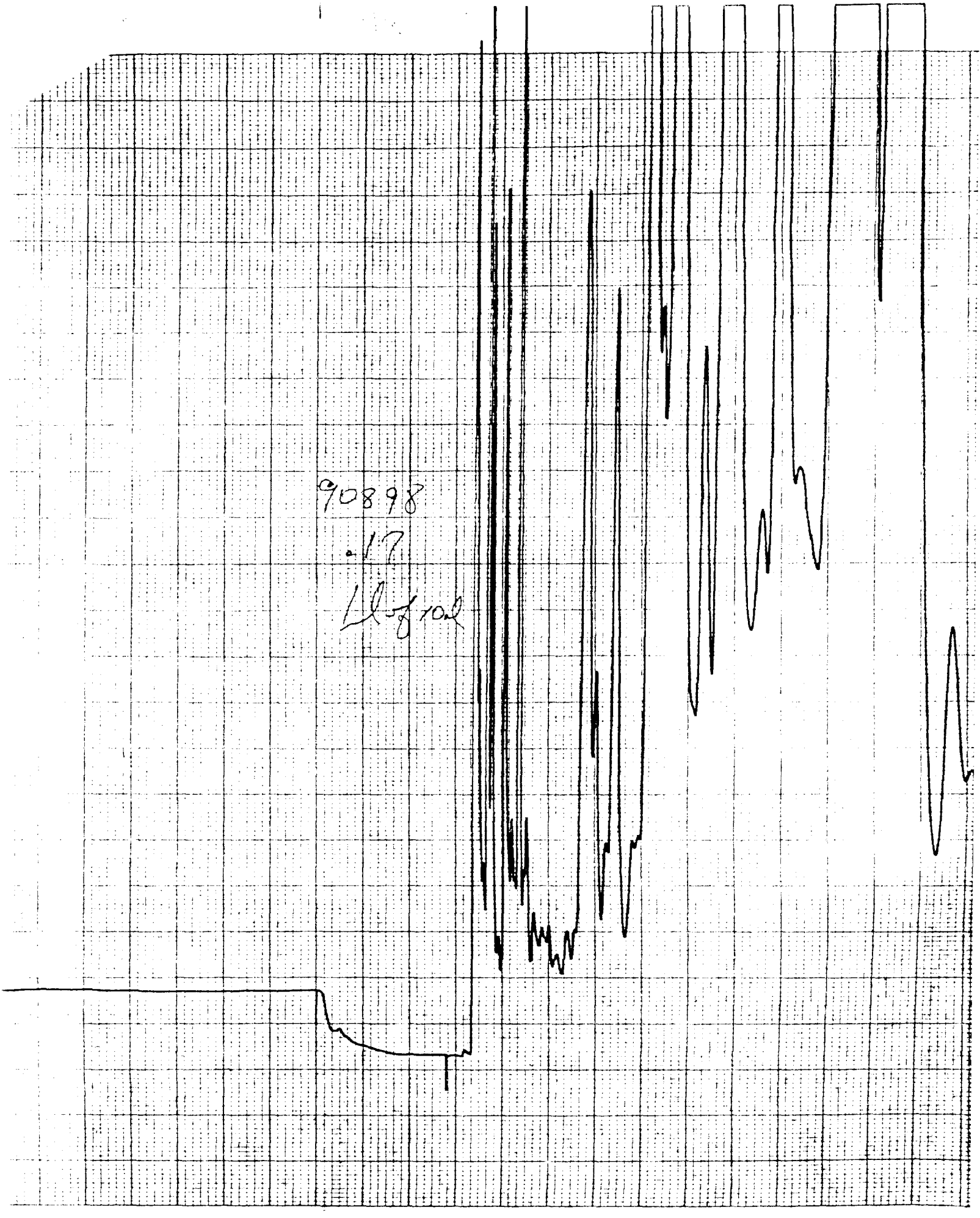
PBLKW1
.21
90950 BBKW
Ll of Dl

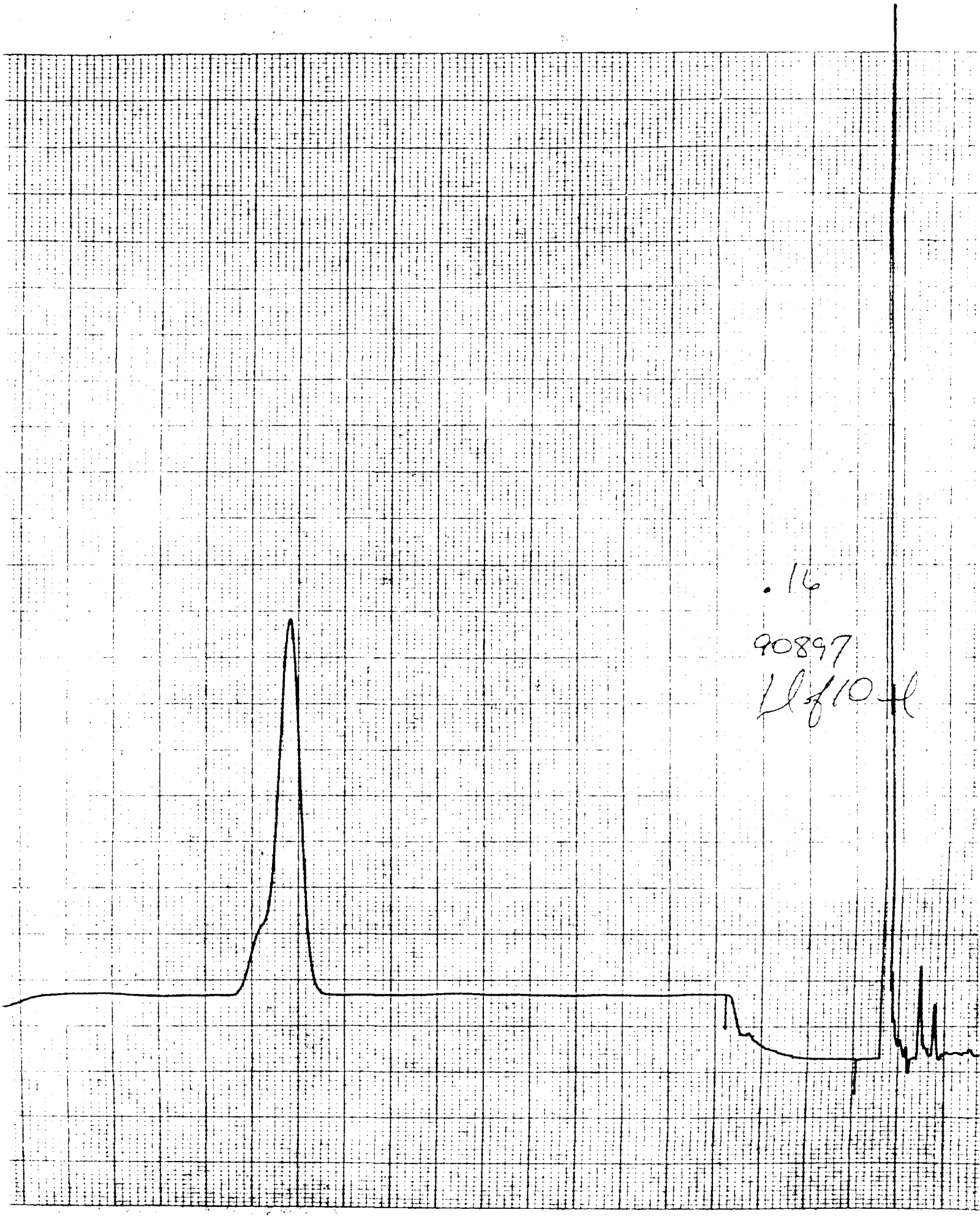

.20
90949msD
1 of 1

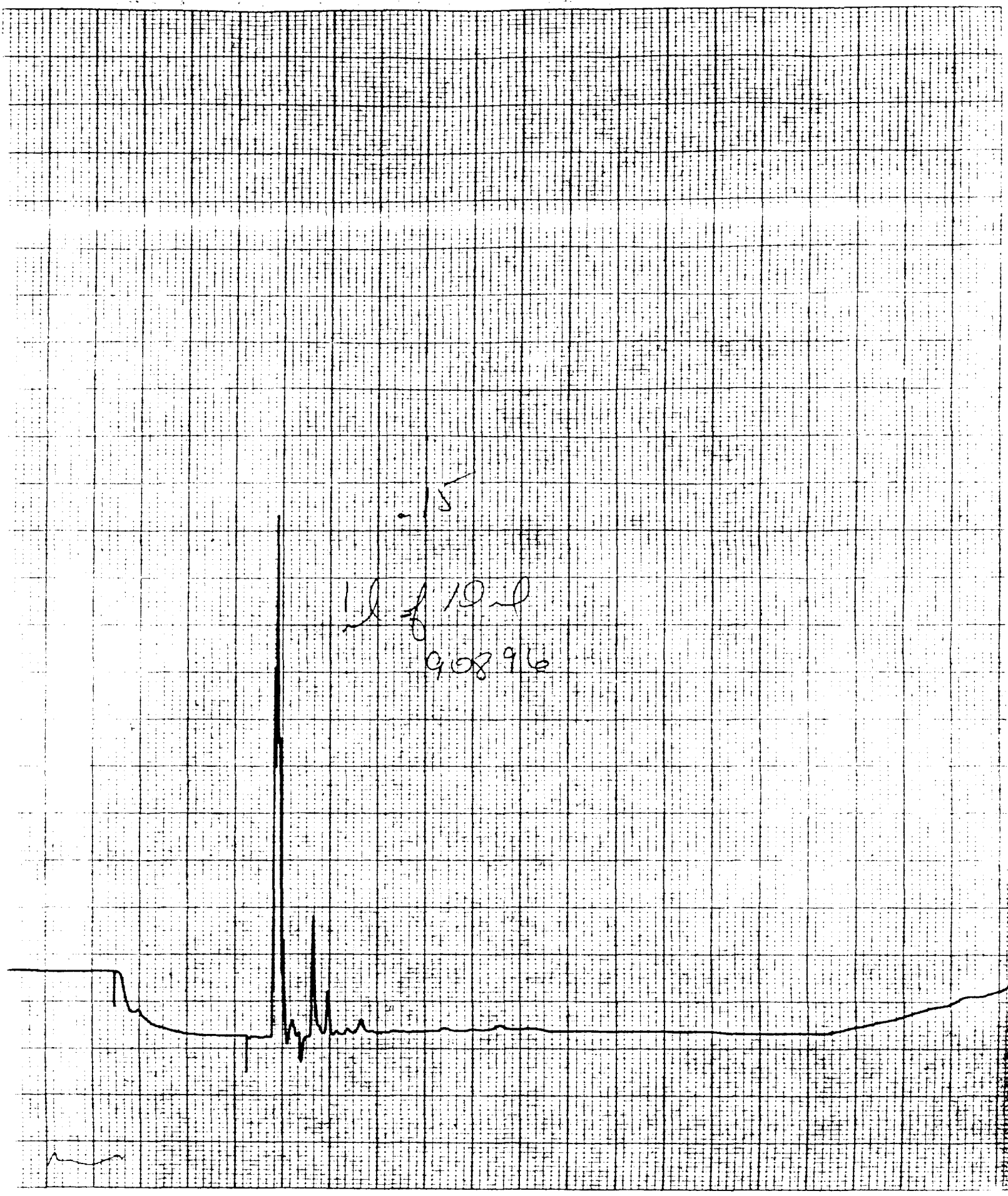

19
90949 ms
1 of 01

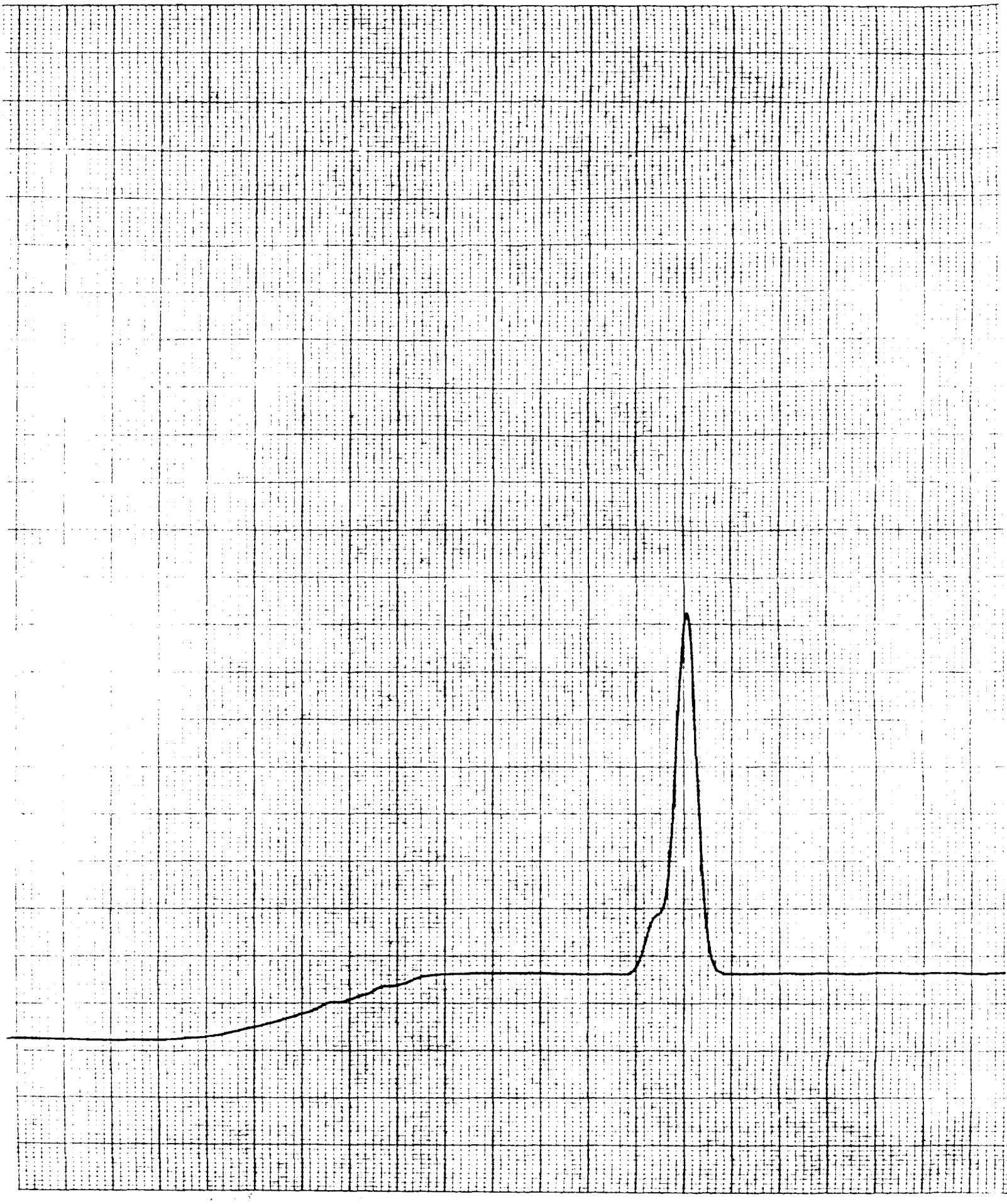
1l
Sol B
.18

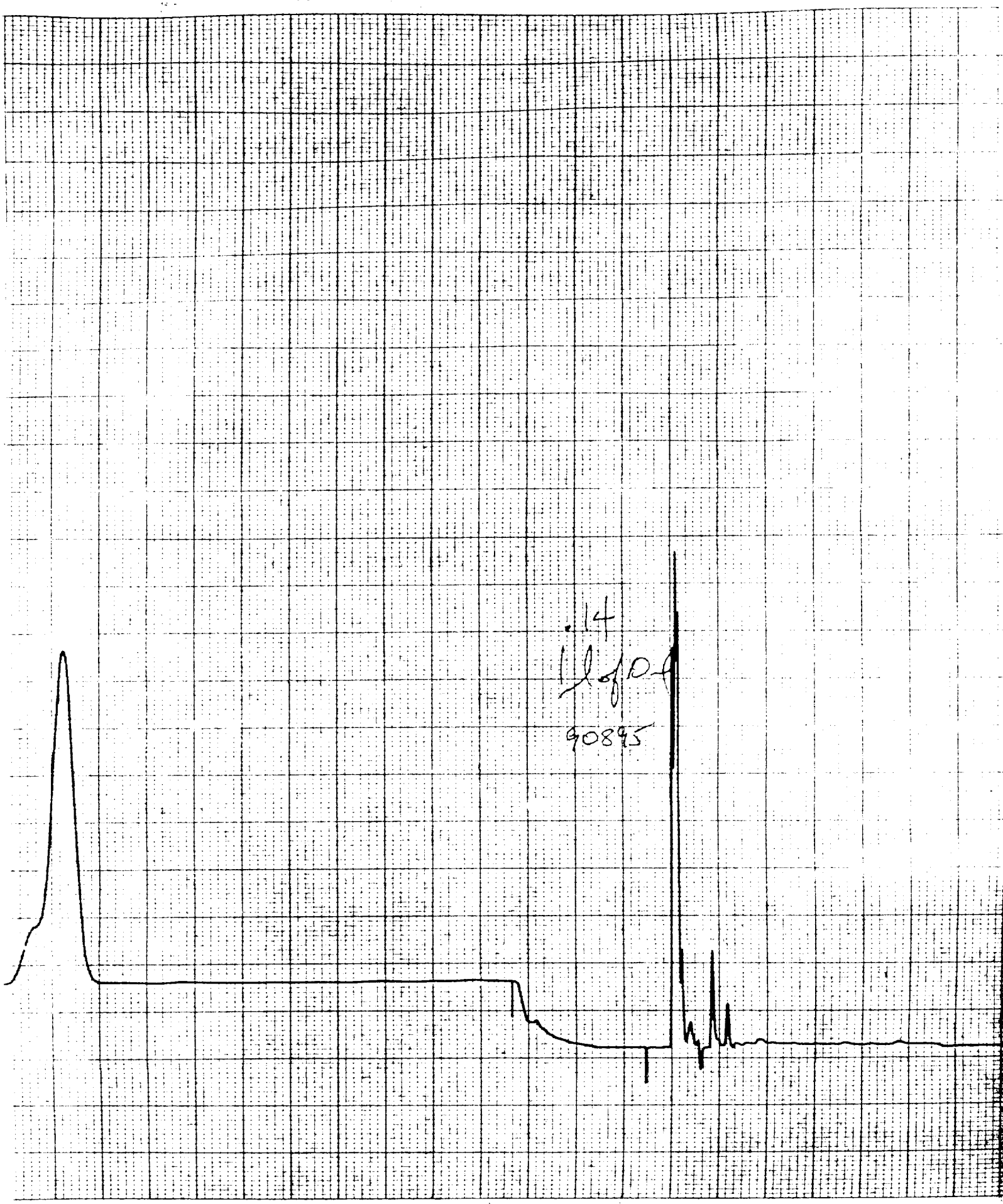



90898
.17


.16
90897
4 of 10


-15
1d of 19d
9/08/96

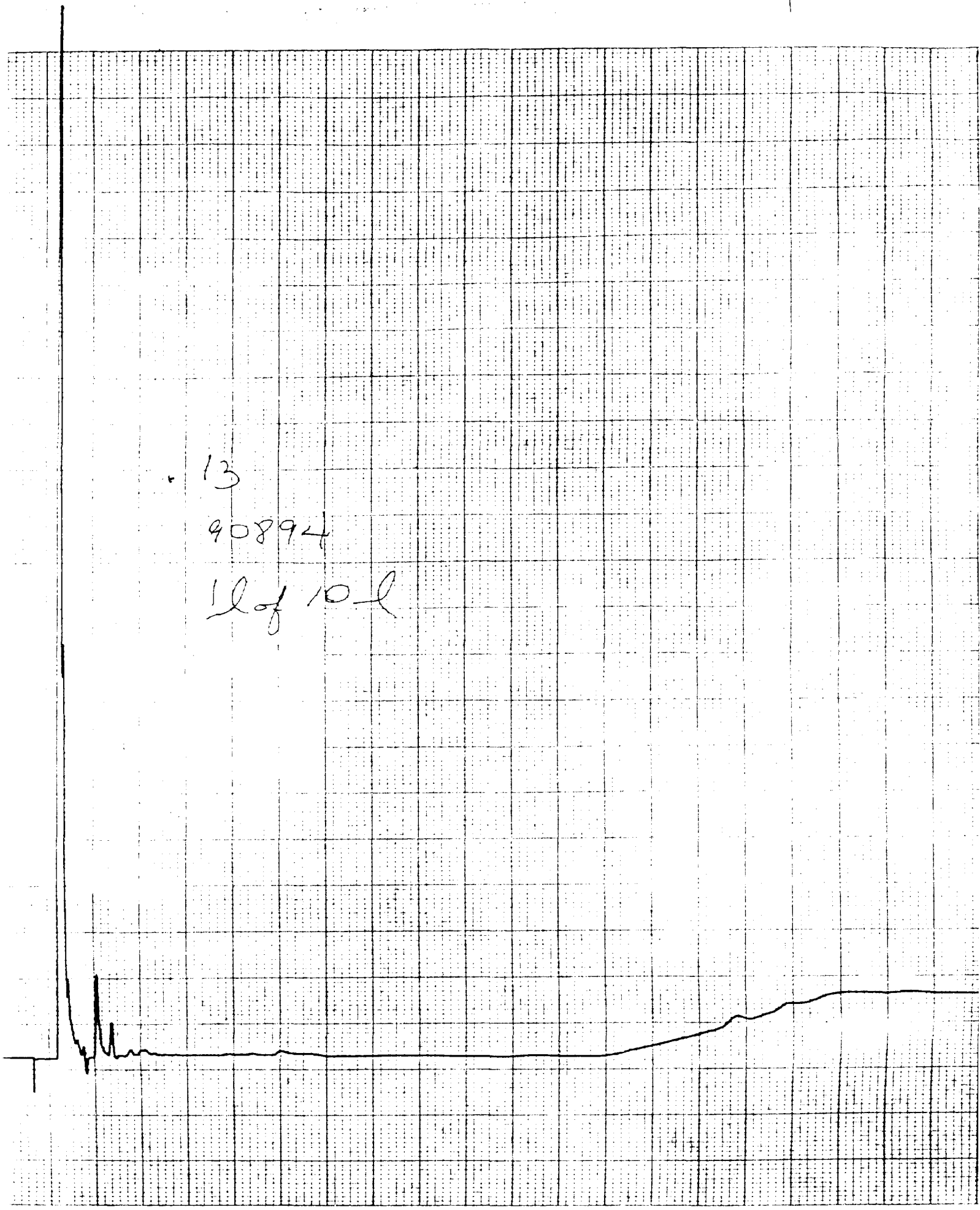


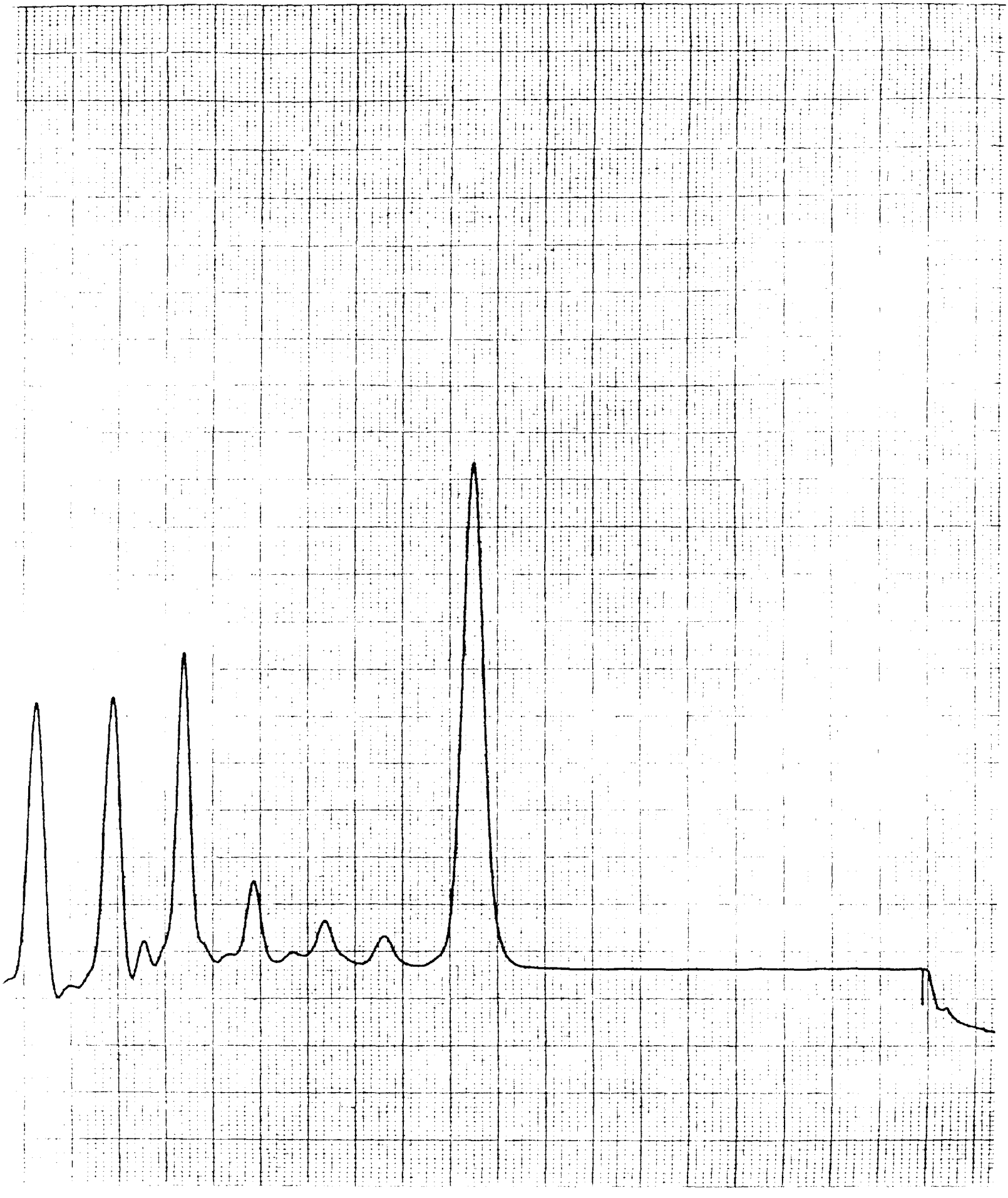

.14
1 of 1
90895

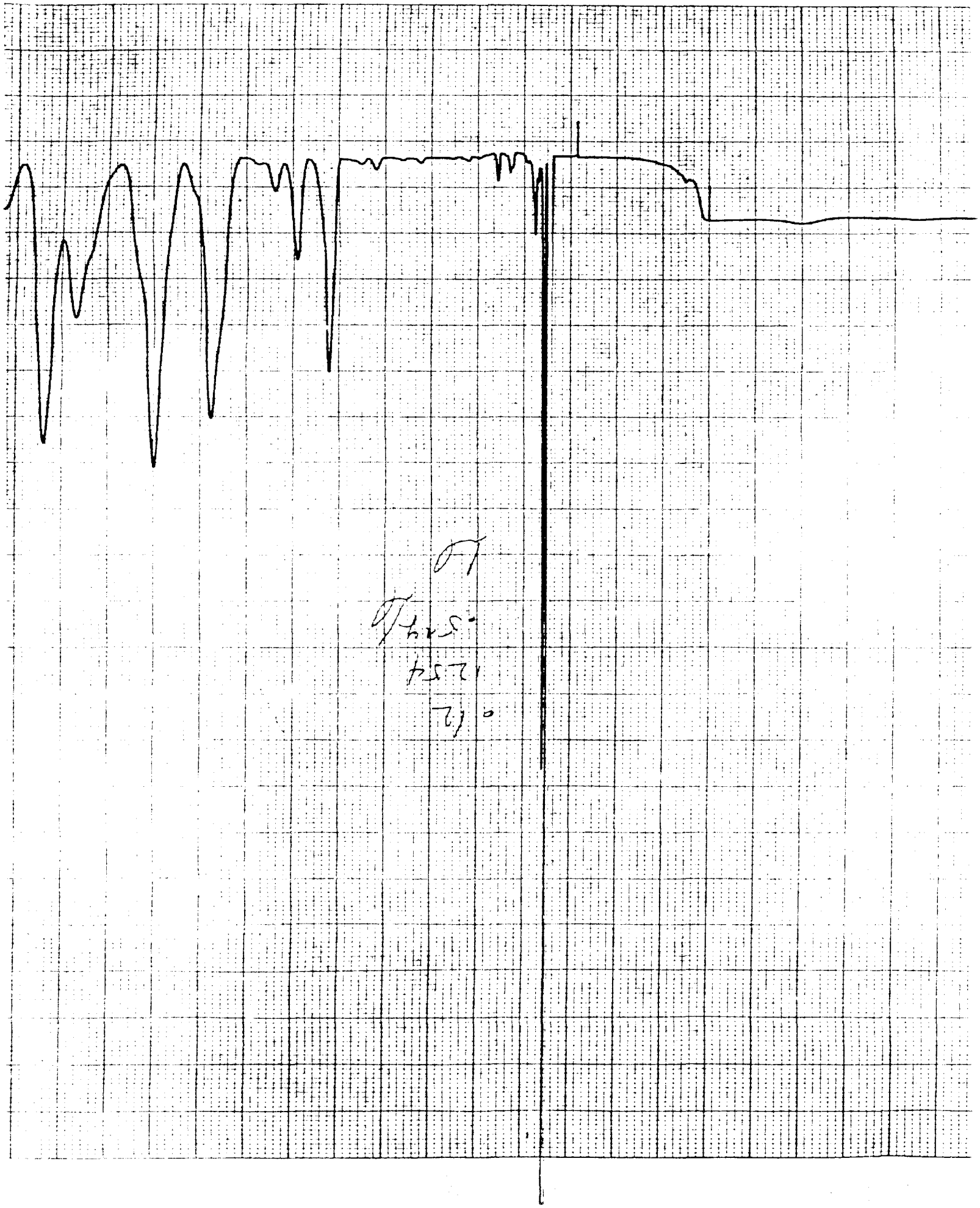
13

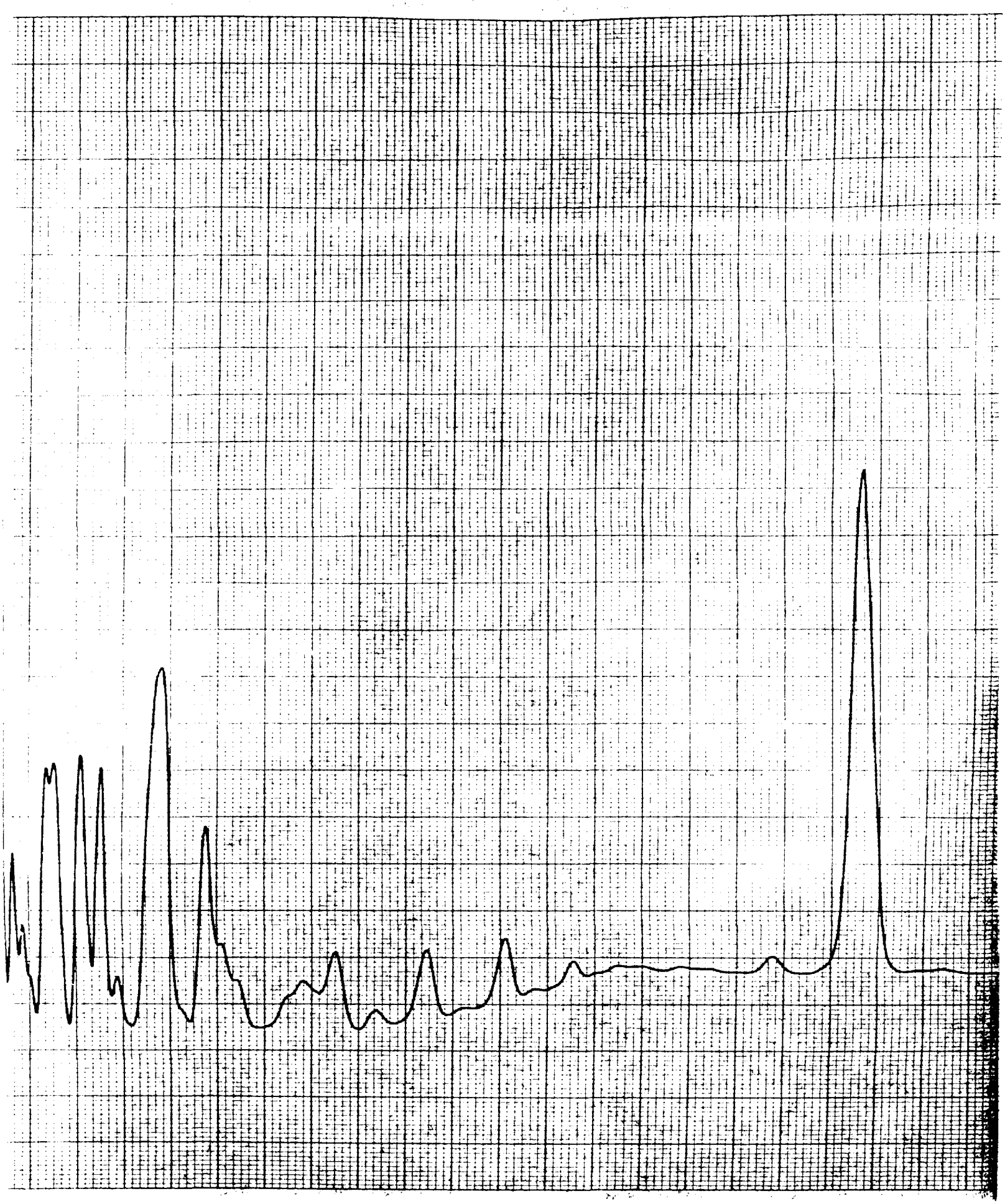
90894

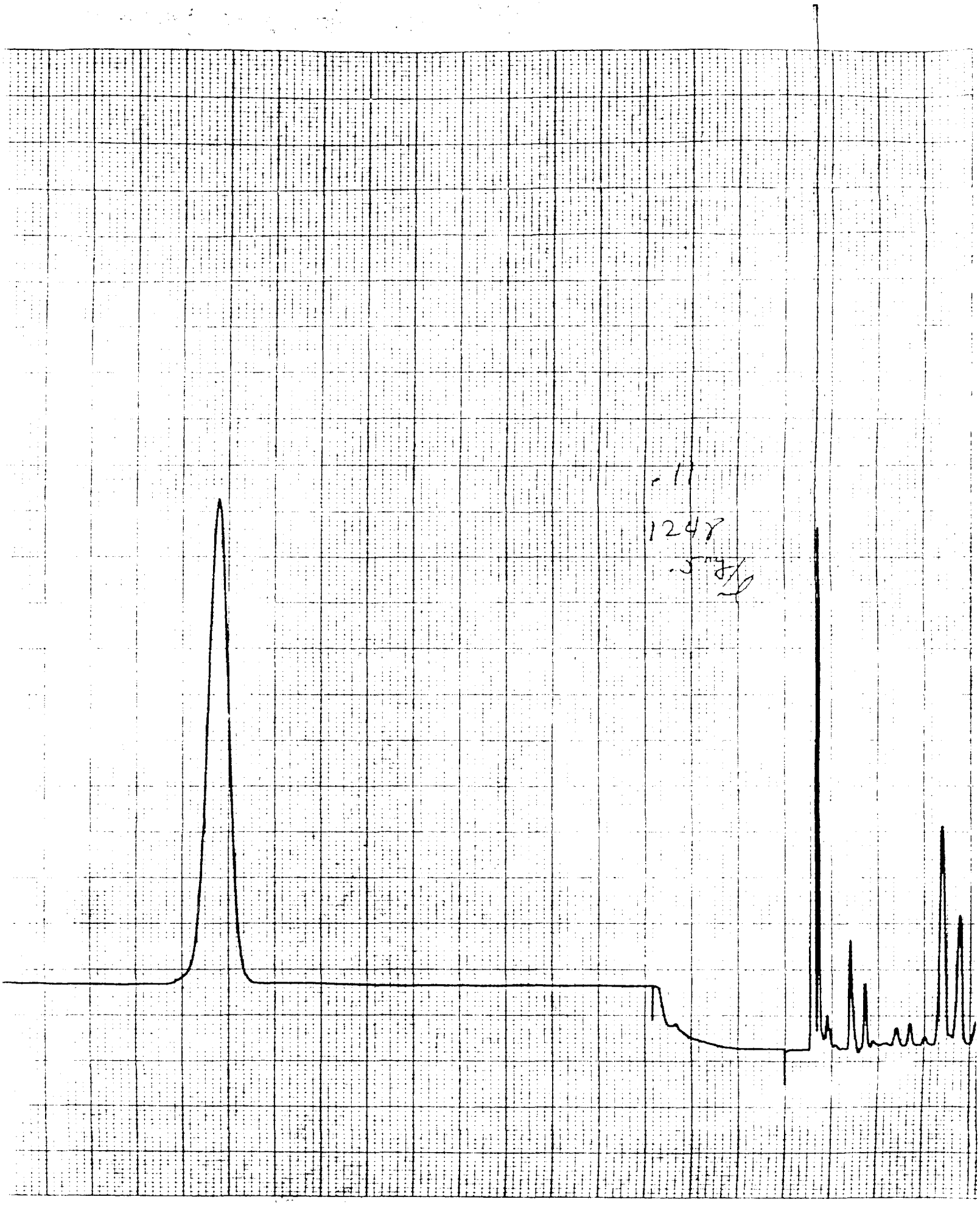
1 of 10 l

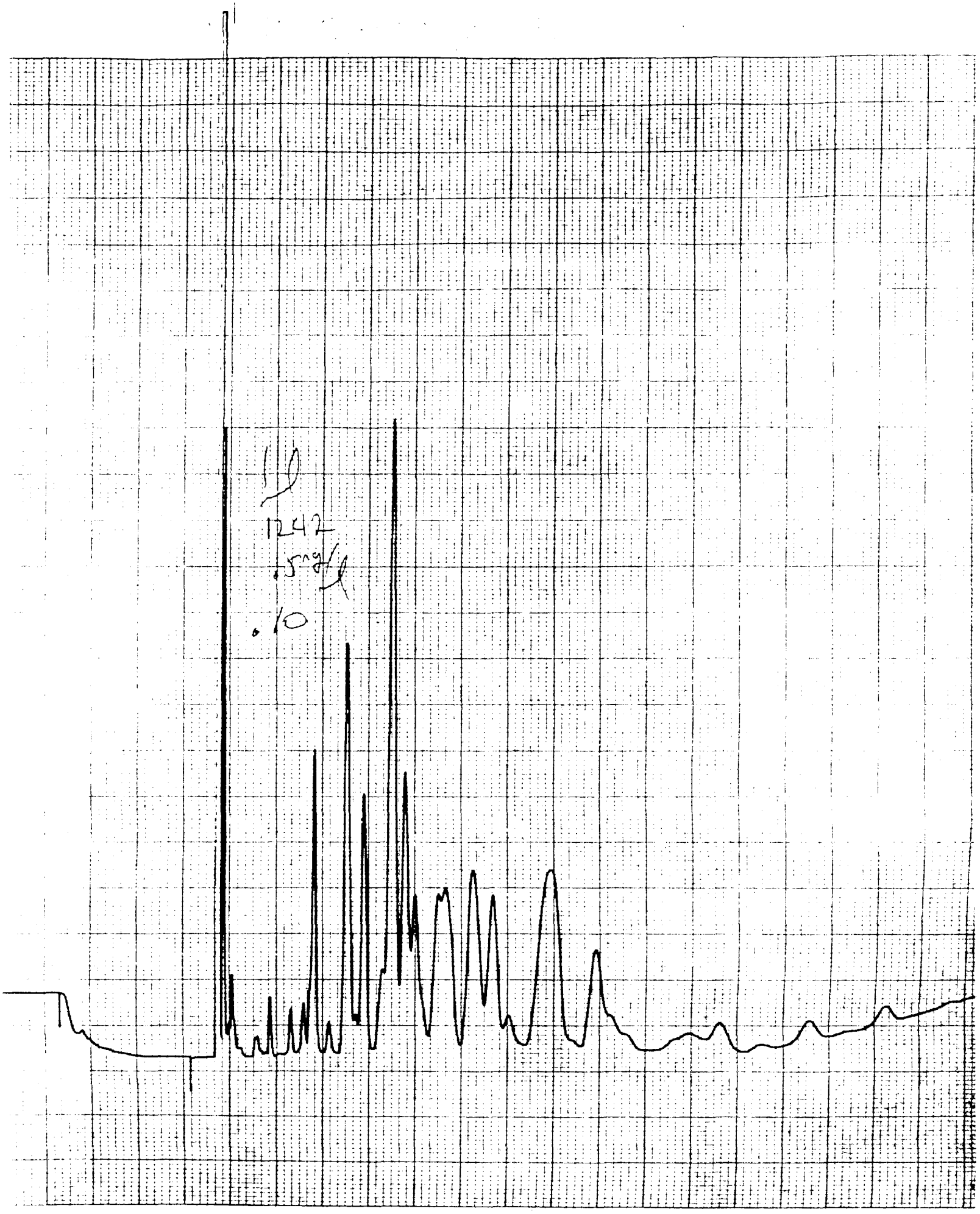


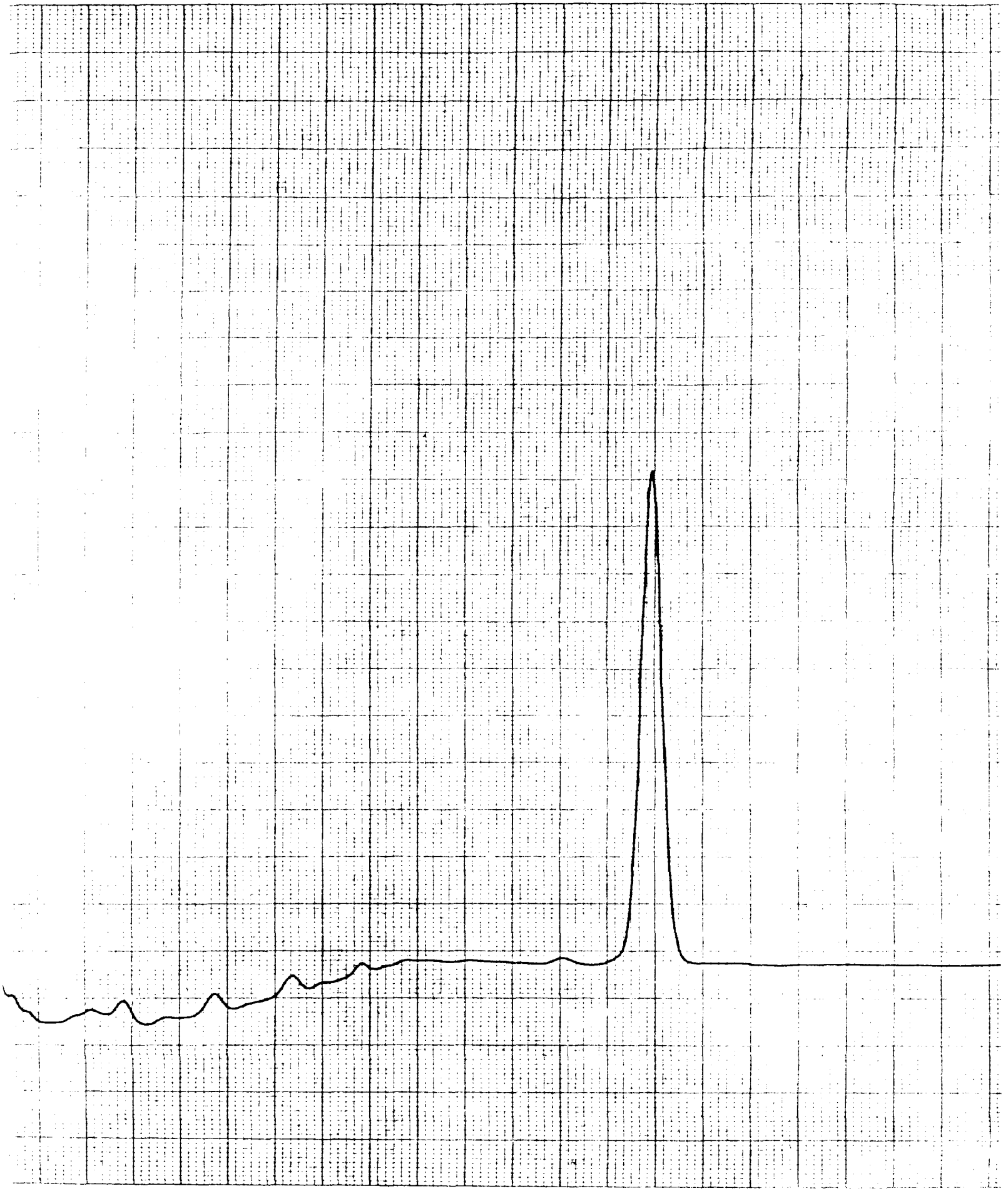


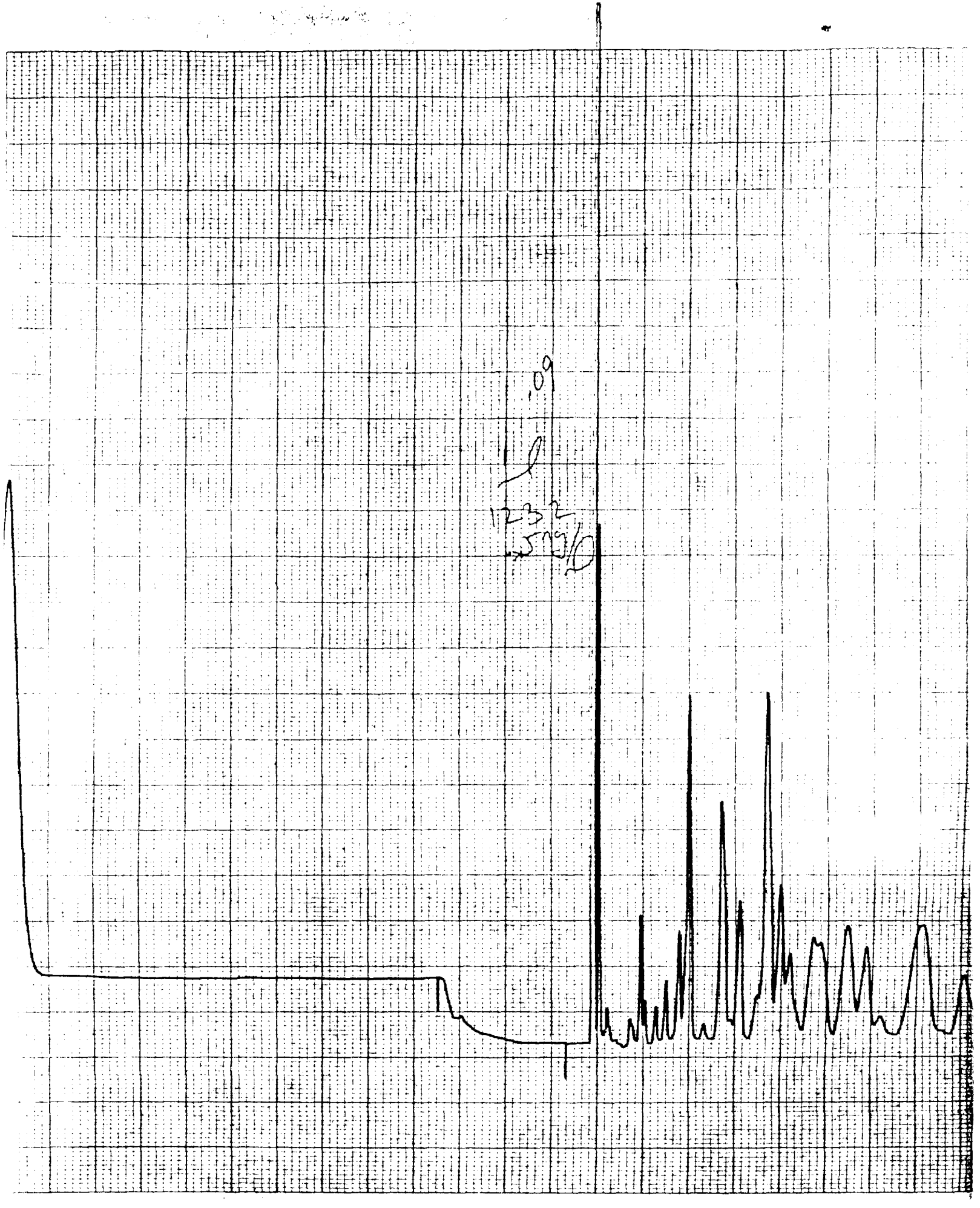


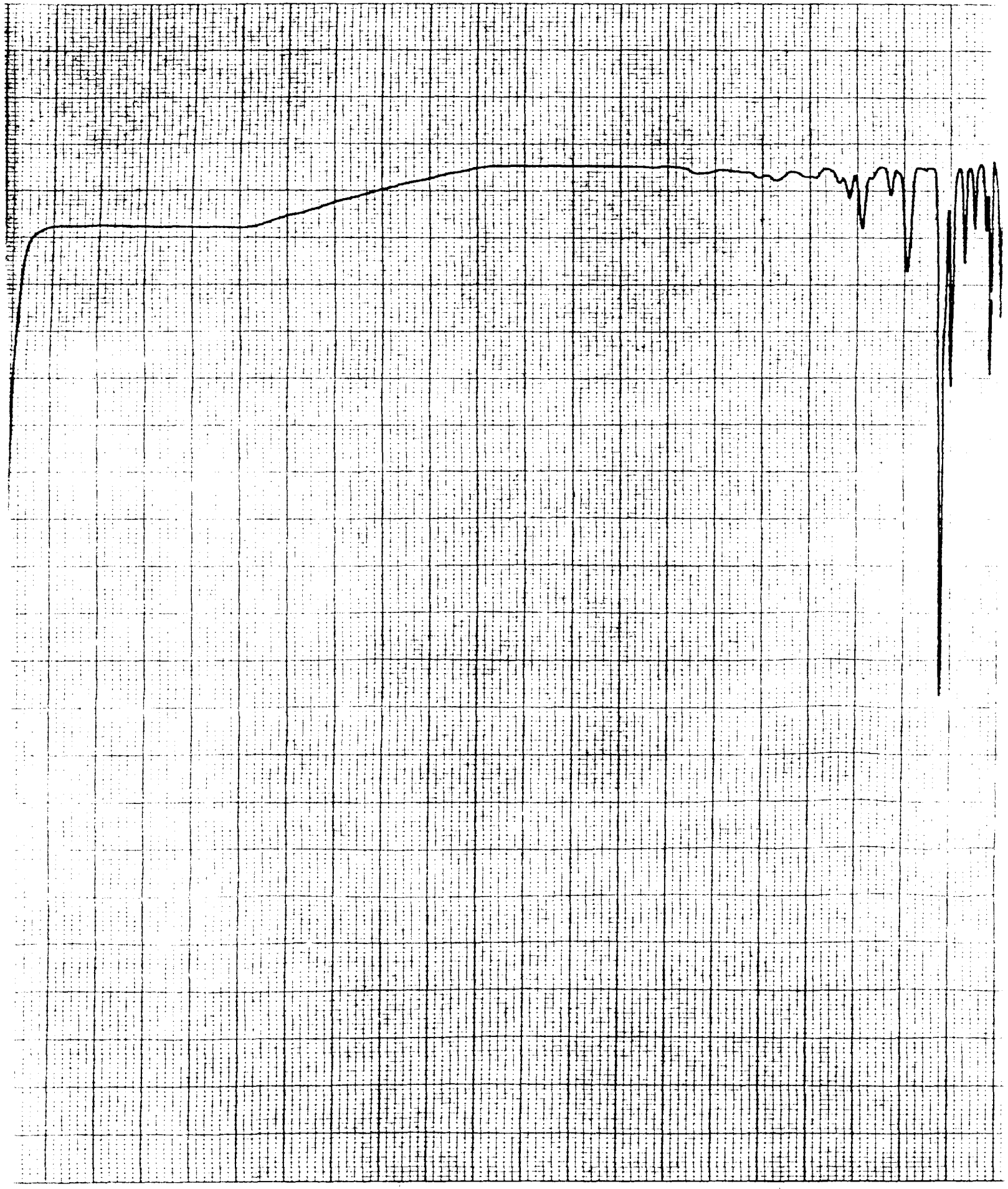


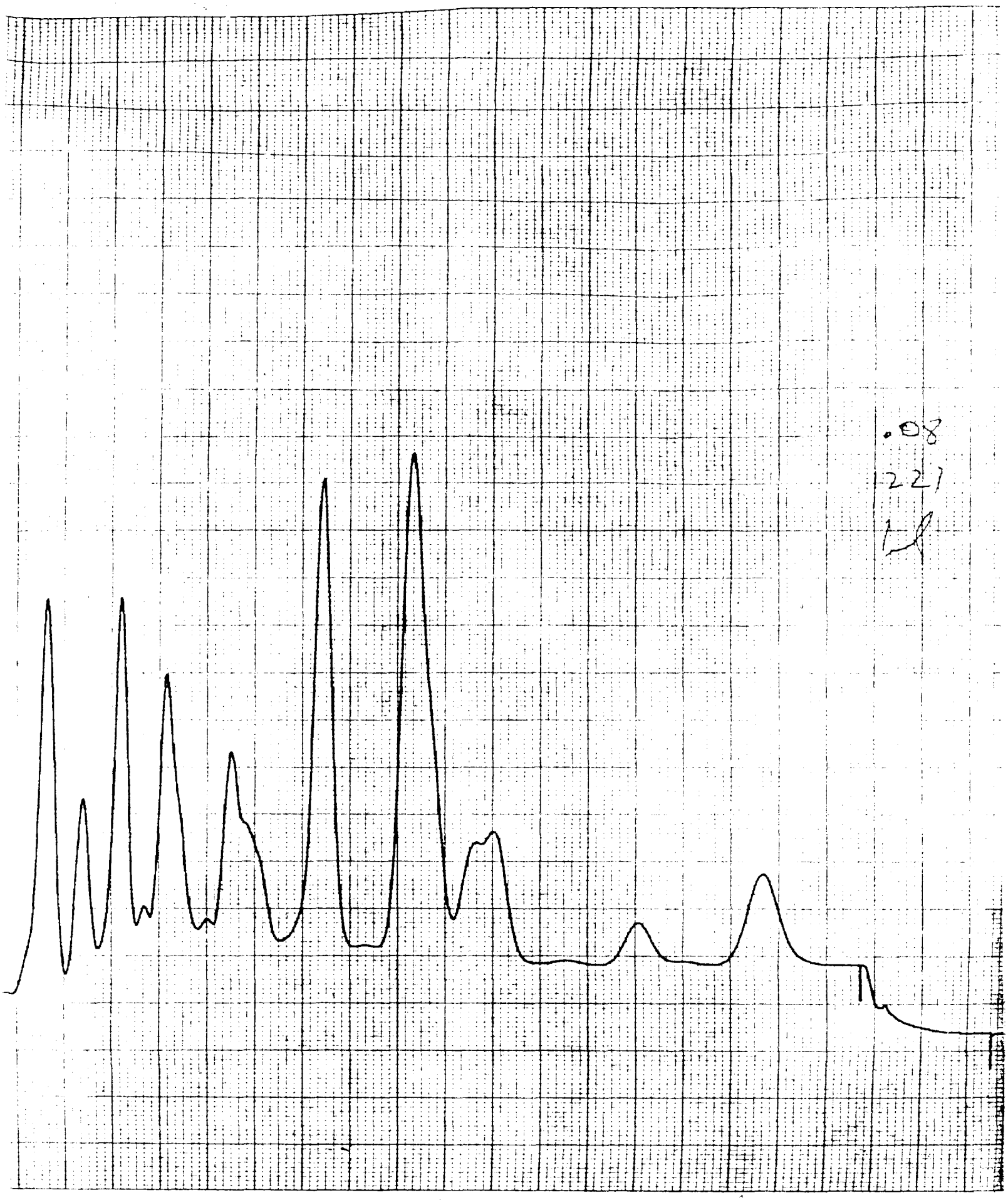

.11
124γ
.5 mg/l

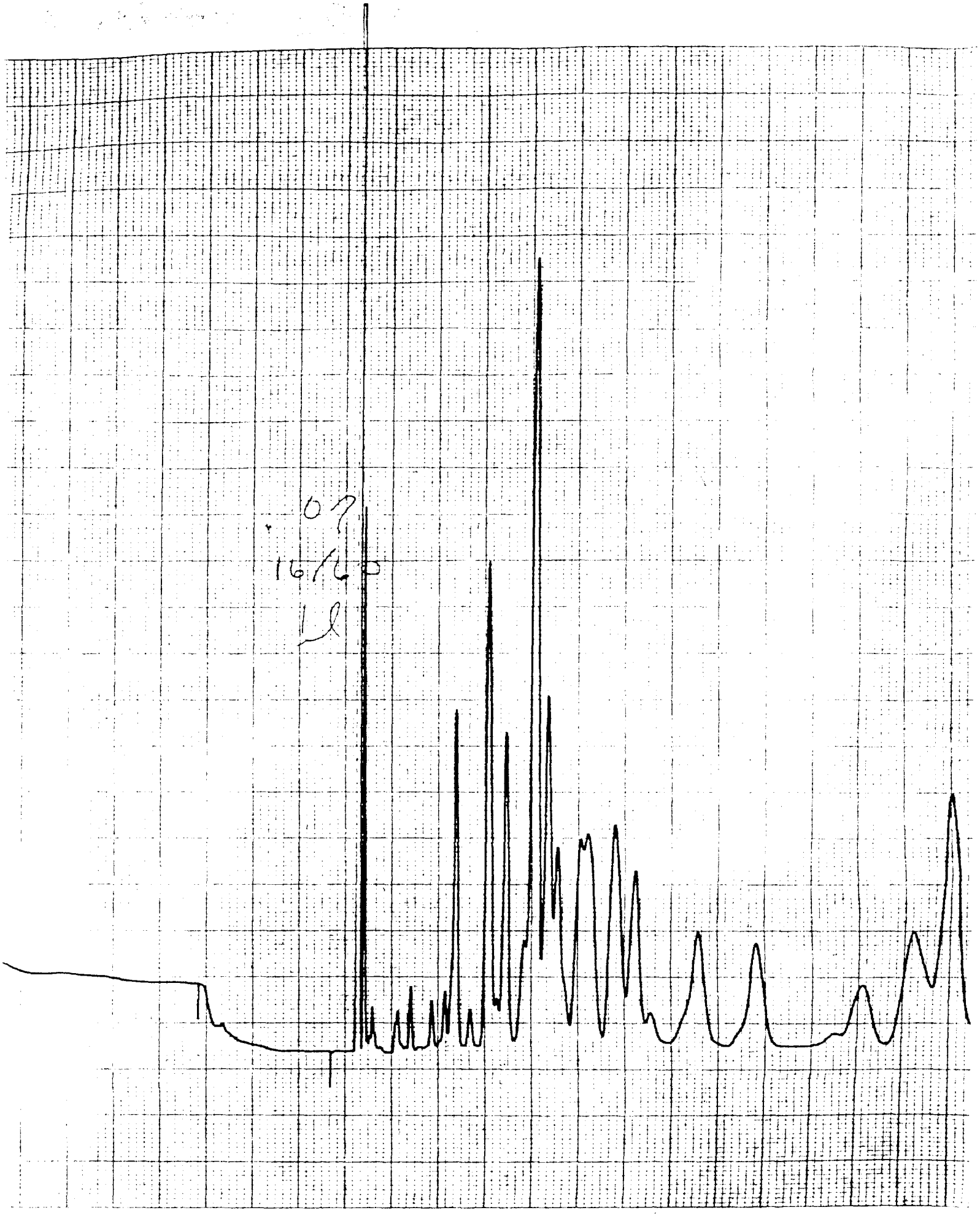

1242
.5 mg/l
.10

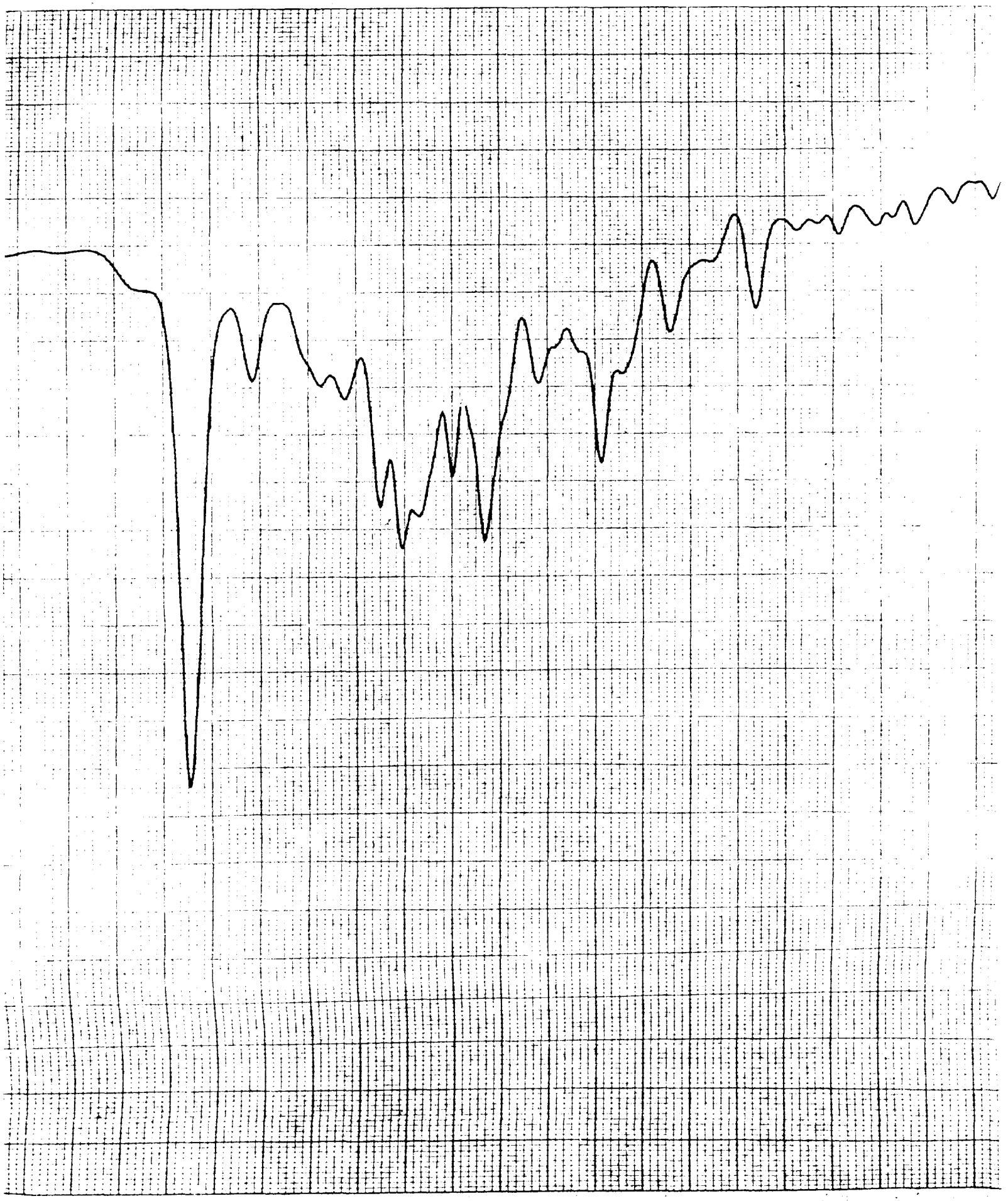


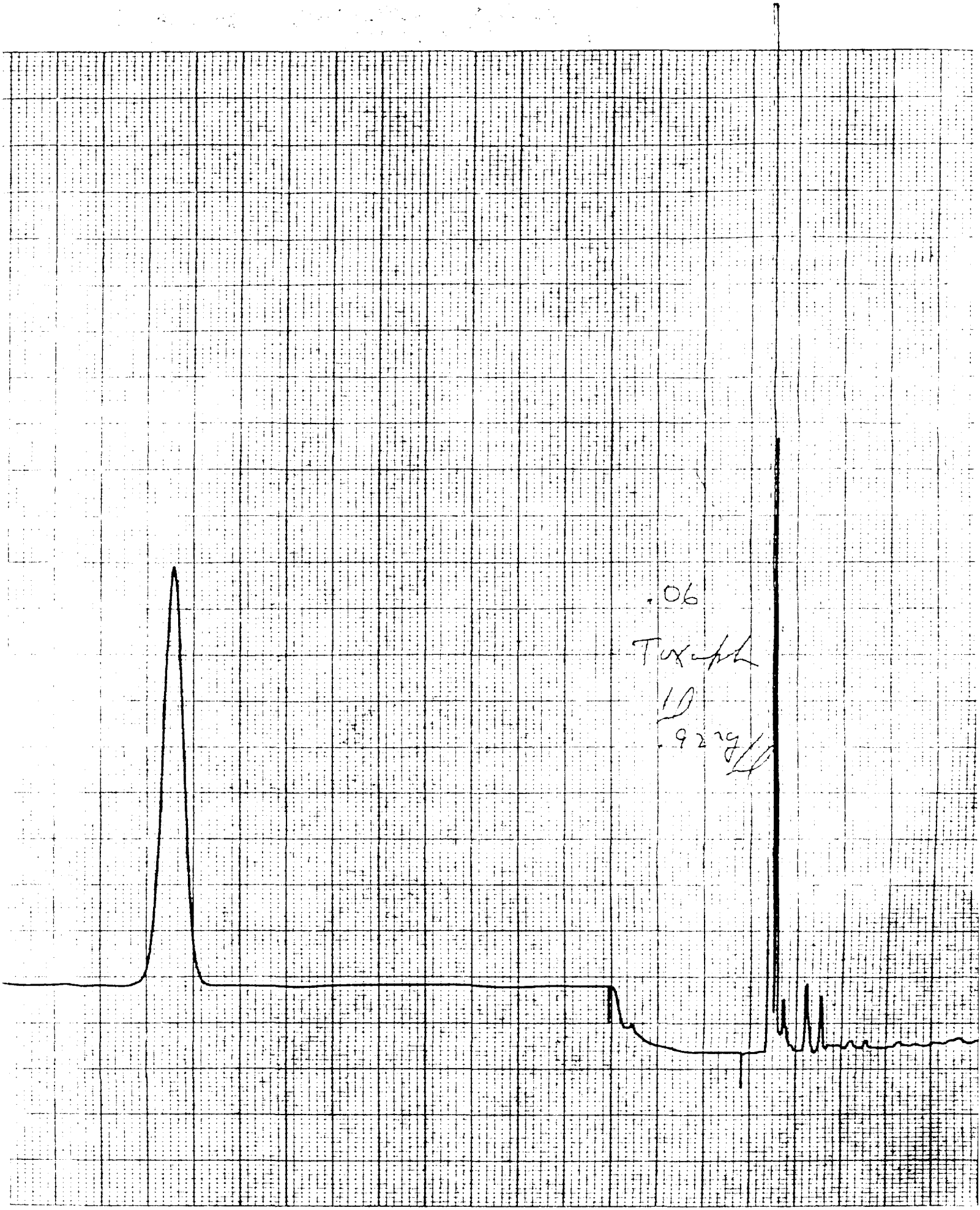

.09
1232
.5990



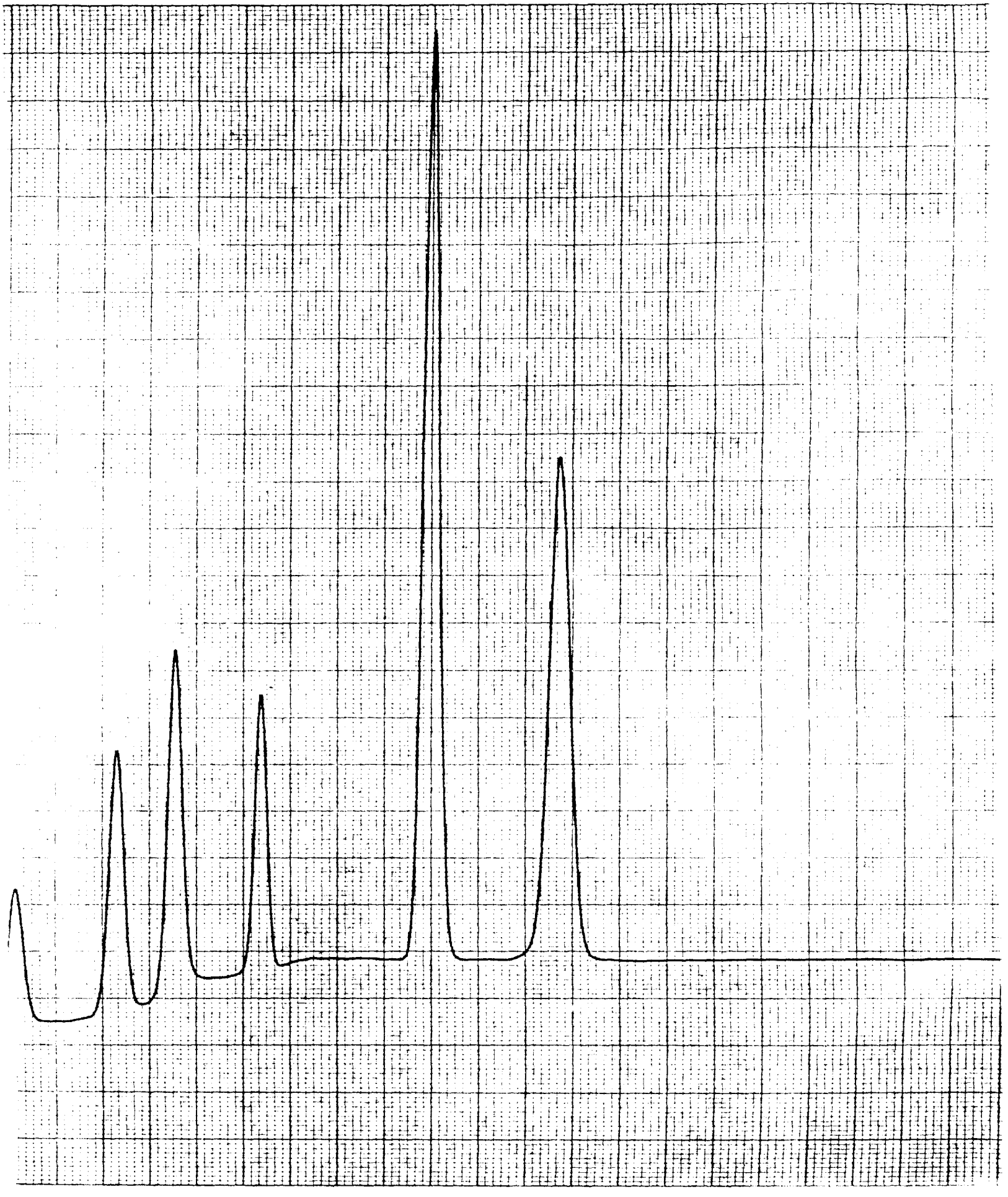

.08
221

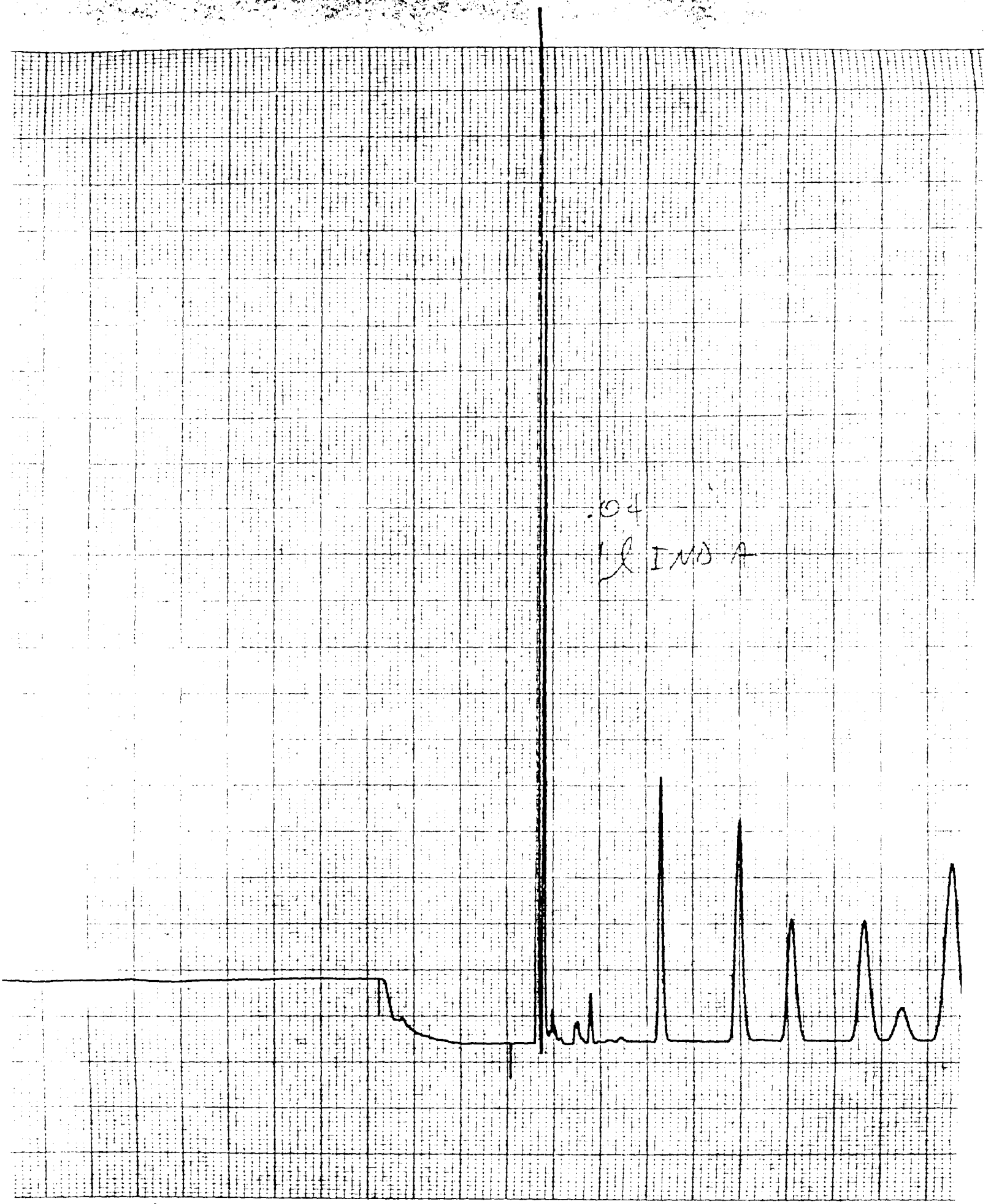

07
16/60



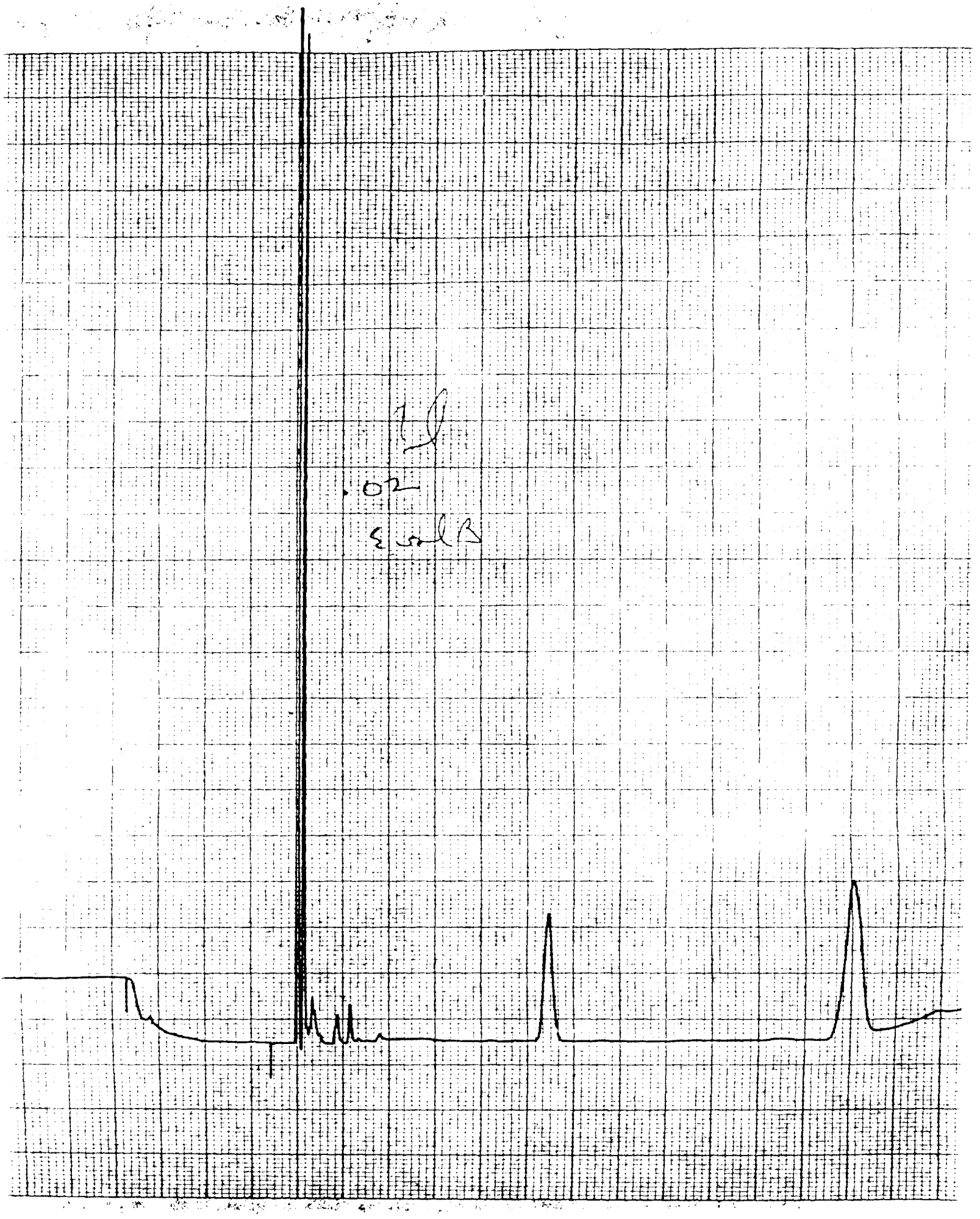

.06
Toxaph
1l
.92 ng/l

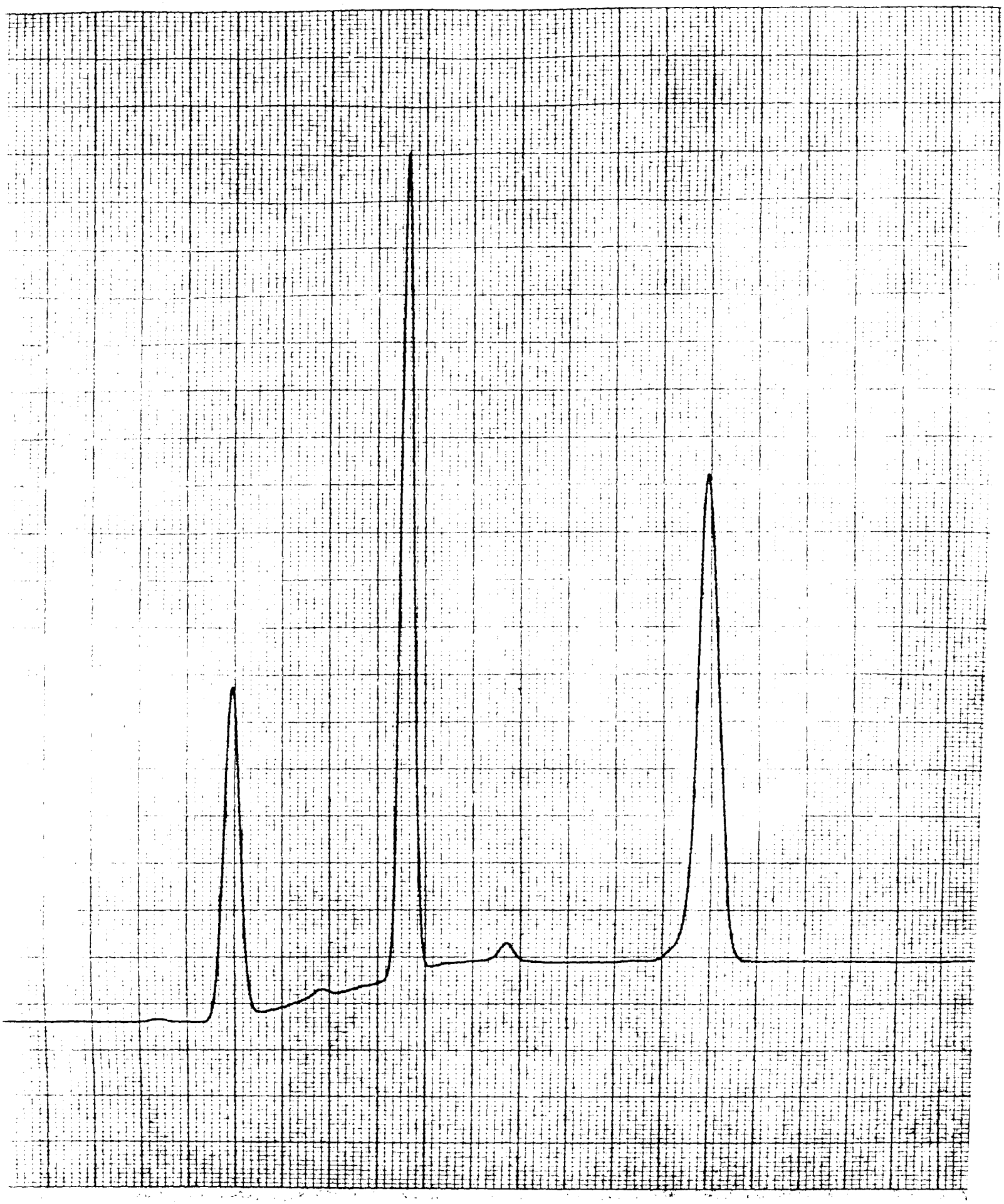
.05
1l
INDB

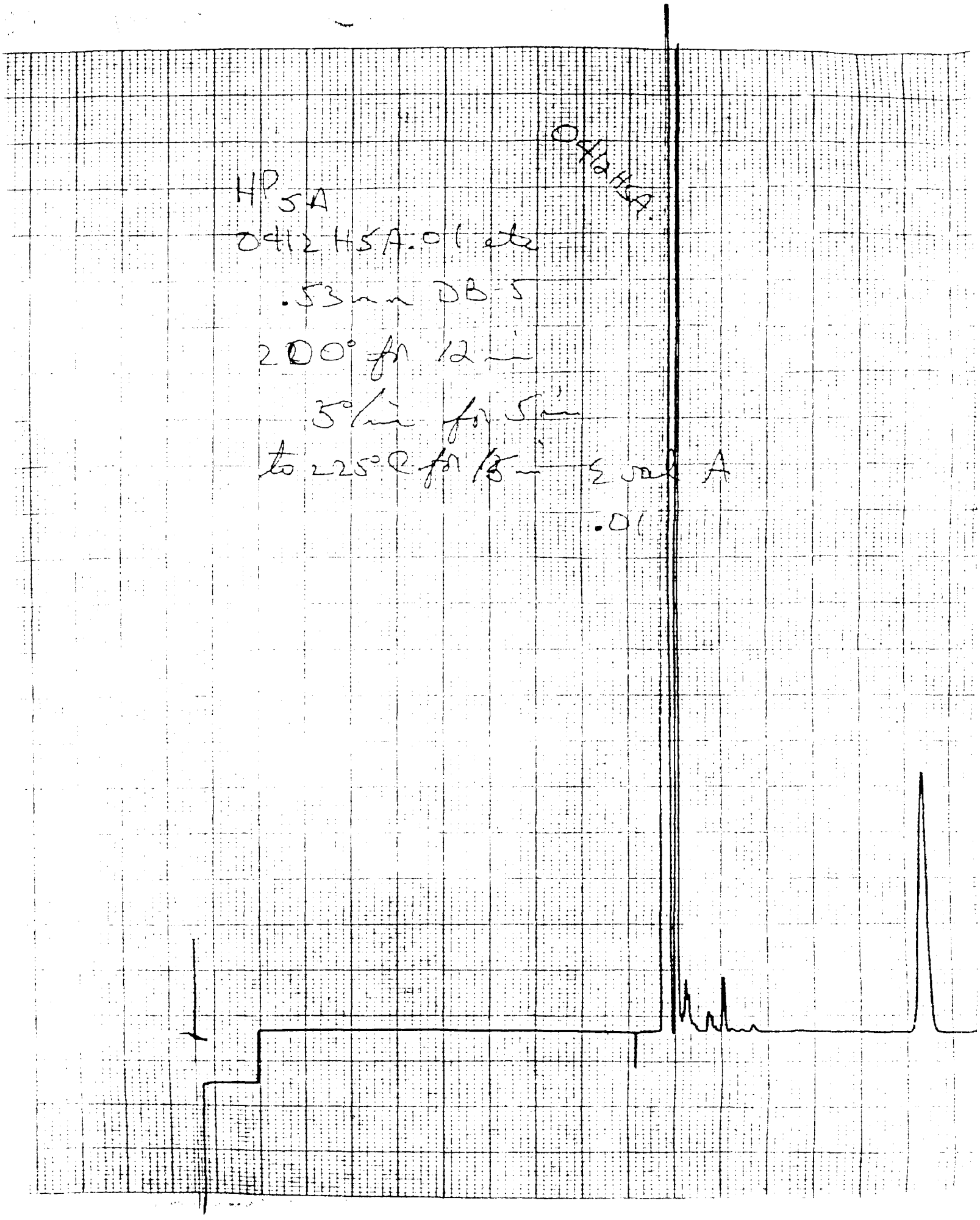



.04
μ INS A

EtOH
.01
CHCl
.03


1d
.02
5 volts




0412H5A
HP 5A
0412H5A.01 etc
.53mm DB-5
200° for 12 min
5°/min for 5 min
to 225°C for 15 min Eval A
.01