

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP090220\
 Data File : BP003185.D
 Acq On : 02 Sep 2020 14:12
 Operator : CG/JU
 Sample : L3848-15DL 2X
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 LINDEN-BH-04-CDL

Quant Time: Sep 02 15:07:34 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA P\METHODS\8270-BP082420.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Sep 01 14:37:05 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.66	152	191351	20.00	ng	0.00
21) Naphthalene-d8	10.43	136	808063	20.00	ng	0.00
39) Acenaphthene-d10	14.29	164	516588	20.00	ng	0.00
64) Phenanthrene-d10	17.05	188	1163463	20.00	ng	0.00
76) Chrysene-d12	21.14	240	1249325	20.00	ng	0.00
86) Perylene-d12	23.38	264	1354375	20.00	ng	0.01

System Monitoring Compounds

5) 2-Fluorophenol	5.26	112	421434	38.94	ng	0.00
7) Phenol-d6	6.84	99	522903	38.54	ng	0.00
23) Nitrobenzene-d5	8.80	82	305843	27.29	ng	0.00
42) 2,4,6-Tribromophenol	15.79	330	280658	40.17	ng	0.00
45) 2-Fluorobiphenyl	12.92	172	917593	26.01	ng	0.00
79) Terphenyl-d14	19.63	244	1433430	25.25	ng	0.00

Target Compounds

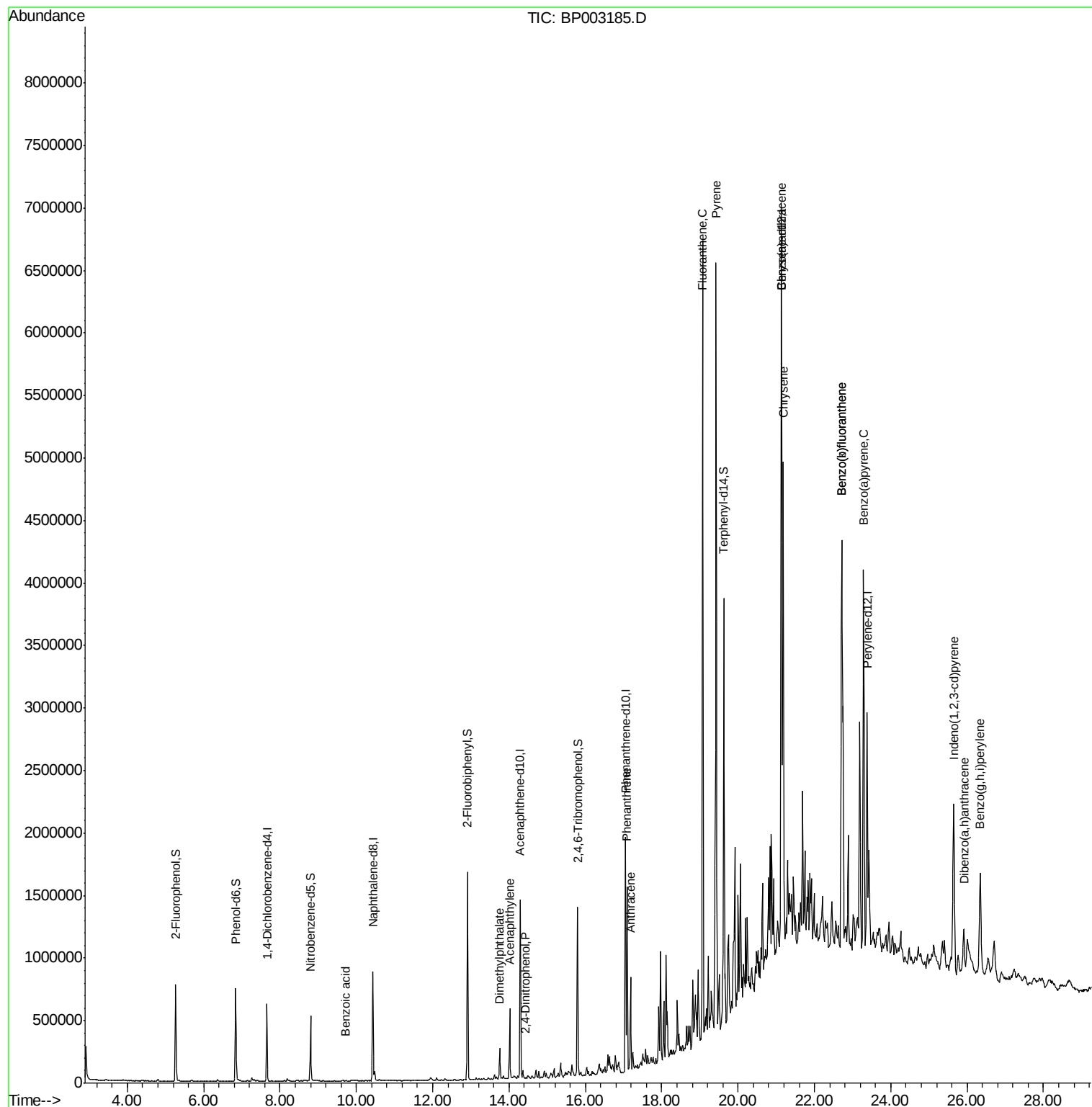
						Qvalue
32) Benzoic acid	9.73	122	723	9.074	ng	# 86
49) Acenaphthylene	14.02	152	462954	9.653	ng	100
50) Dimethylphthalate	13.75	163	159690	4.054	ng	100
54) 2,4-Dinitrophenol	14.42	184	36	7.762	ng	# 1
71) Phenanthrene	17.09	178	935819	14.844	ng	99
72) Anthracene	17.18	178	453259	7.512	ng	99
75) Fluoranthene	19.07	202	3856532	52.928	ng	99
78) Pyrene	19.42	202	3837196	47.323	ng	99
81) Benzo(a)anthracene	21.13	228	2784186	35.578	ng	95
83) Chrysene	21.18	228	2136690	28.517	ng	97
87) Indeno(1,2,3-cd)pyrene	25.65	276	1238387	12.261	ng	97
88) Benzo(b)fluoranthene	22.72	252	2835970	33.690	ng	98
89) Benzo(k)fluoranthene	22.72	252	2835970	35.261	ng	98
90) Benzo(a)pyrene	23.29	252	2244240	28.737	ng	97
91) Dibenzo(a,h)anthracene	25.92	278	359584	4.334	ng	94
92) Benzo(g,h,i)perylene	26.34	276	1032751	12.403	ng	99

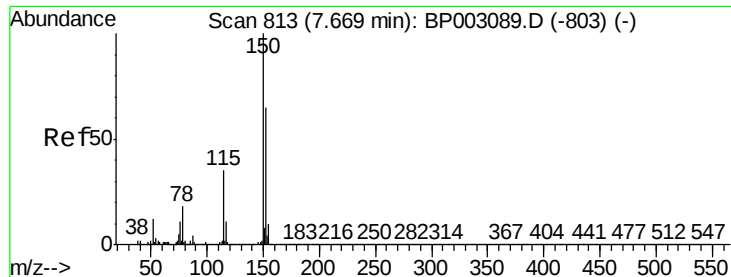
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.000 ng

RT: 7.66 min Scan# 811

Delta R.T. 0.01 min

Lab File: BP003185.D

Acq: 02 Sep 2020 14:12

Instrument :

BNA_P

ClientSampleId :

LINDEN-BH-04-CDL

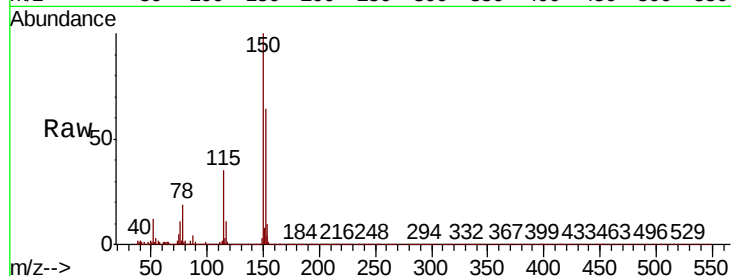
Tot Ion:152 Resp: 191351

Ion Ratio Lower Upper

152 100

150 157.3 123.8 185.6

115 54.4 43.8 65.6



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E

250000

200000

150000

100000

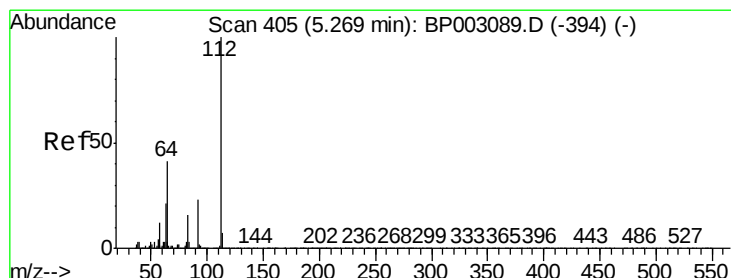
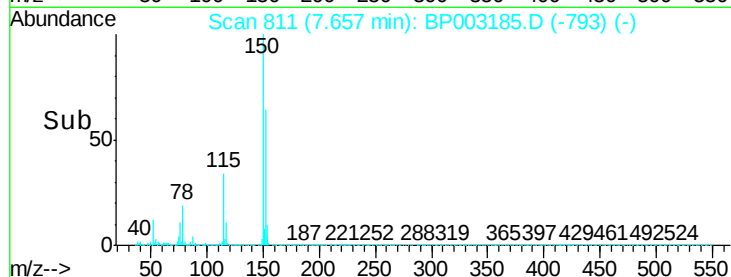
50000

0

7.66

7.55 7.60 7.65 7.70 7.75

Time-->



#5

2-Fluorophenol

Concen: 38.939 ng

RT: 5.26 min Scan# 404

Delta R.T. -0.00 min

Lab File: BP003185.D

Acq: 02 Sep 2020 14:12

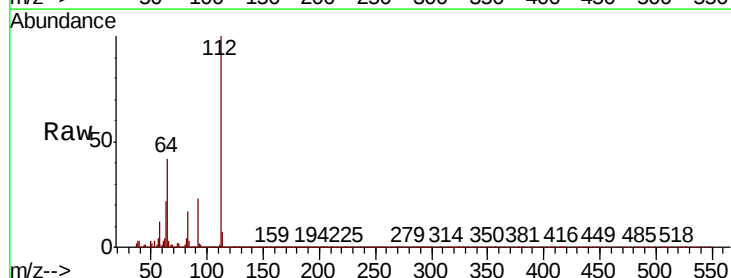
Tgt Ion:112 Resp: 421434

Ion Ratio Lower Upper

112 100

64 42.1 32.8 49.2

63 21.6 17.0 25.4



Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BP0

Ion 63.00 (62.70 to 63.70): BP0

300000

200000

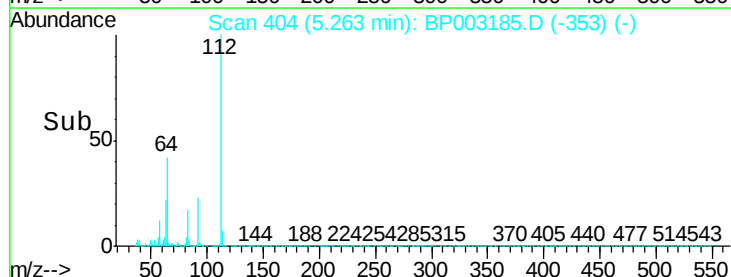
100000

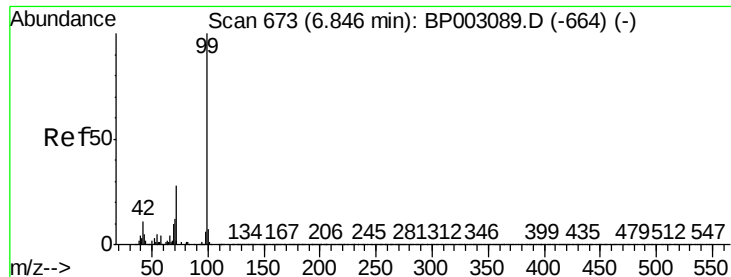
0

5.26

5.20 5.30 5.40

Time-->





#7

Phenol-d6

Concen: 38.542 ng

RT: 6.84 min Scan# 672

Delta R.T. 0.01 min

Lab File: BP003185.D

Acq: 02 Sep 2020 14:12

Instrument :

BNA_P

ClientSampleId :

LINDEN-BH-04-CDL

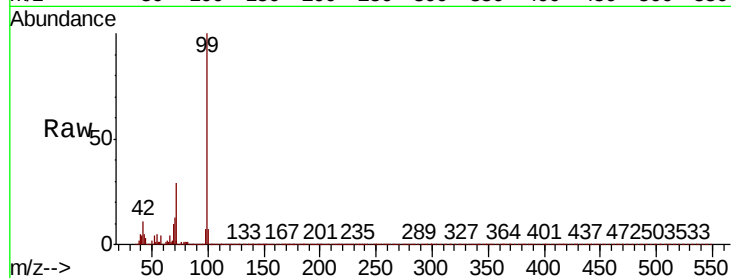
Tot Ion: 99 Resp: 522903

Ion Ratio Lower Upper

99 100

42 10.9 8.6 13.0

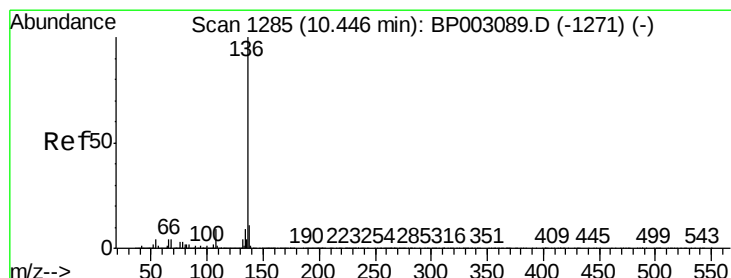
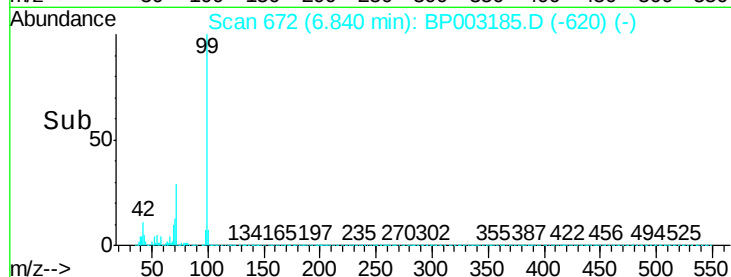
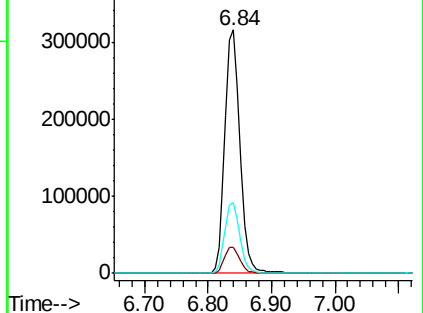
71 29.2 23.4 35.2



Abundance Ion 99.00 (98.70 to 99.70): BP0

Ion 42.00 (41.70 to 42.70): BP0

Ion 71.00 (70.70 to 71.70): BP0



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.43 min Scan# 1283

Delta R.T. -0.00 min

Lab File: BP003185.D

Acq: 02 Sep 2020 14:12

Tgt Ion: 136 Resp: 808063

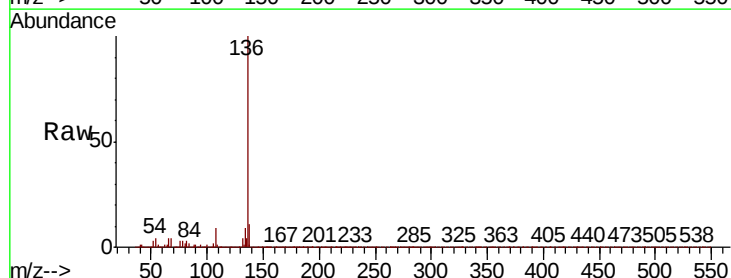
Ion Ratio Lower Upper

136 100

137 10.9 8.6 13.0

54 4.5 3.6 5.4

68 4.4 3.3 4.9

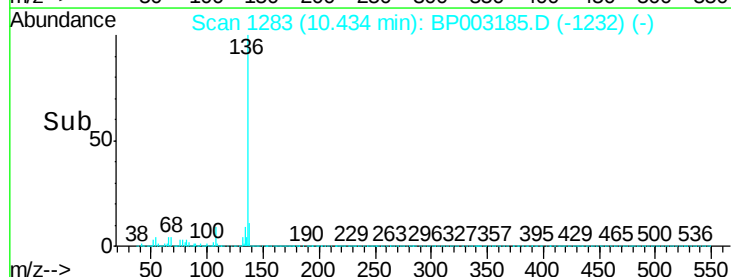
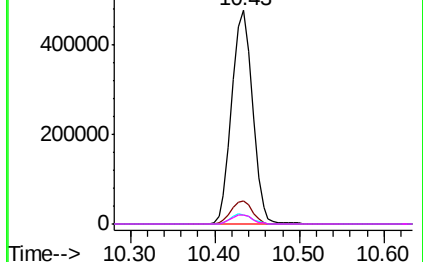


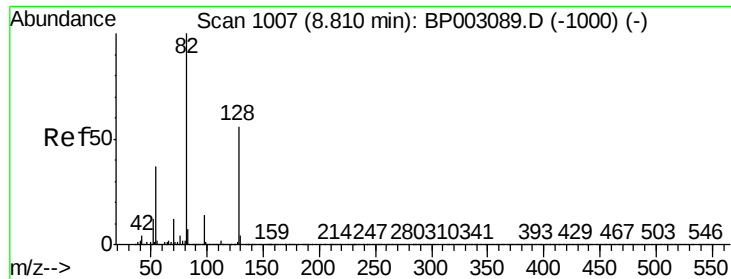
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BP0

Ion 68.00 (67.70 to 68.70): BP0

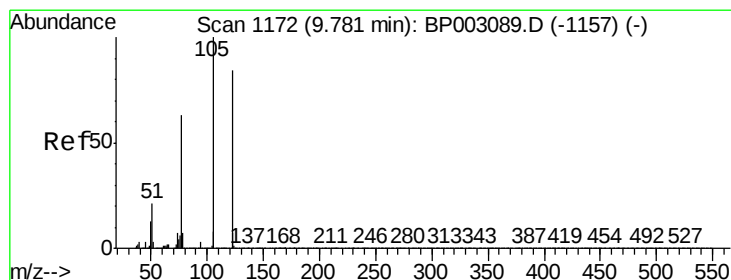
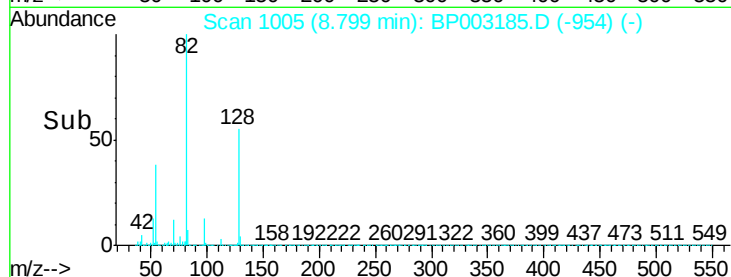
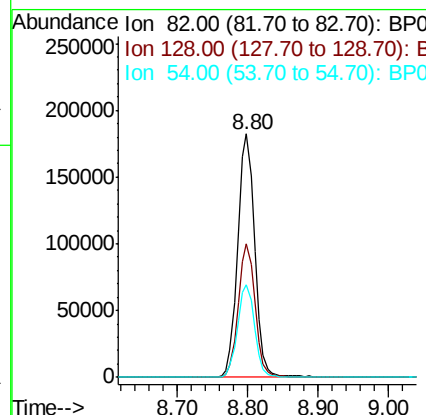
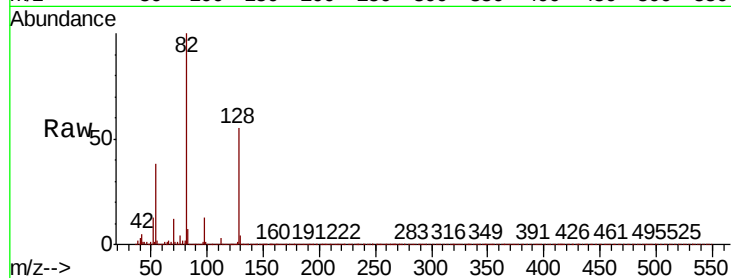




#23
Nitrobenzene-d5
Concen: 27.286 ng
RT: 8.80 min Scan# 1005
Delta R.T. -0.00 min
Lab File: BP003185.D
Acq: 02 Sep 2020 14:12

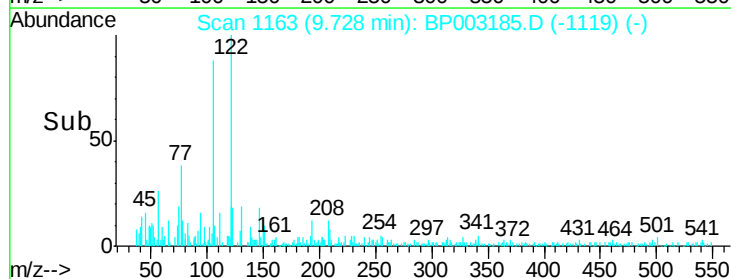
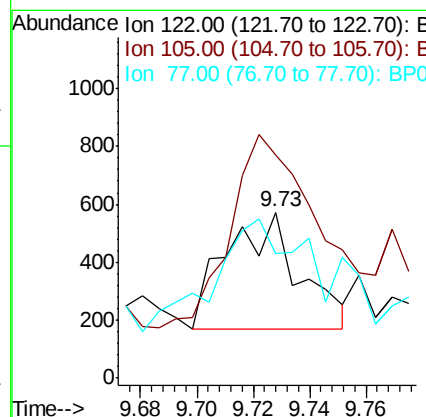
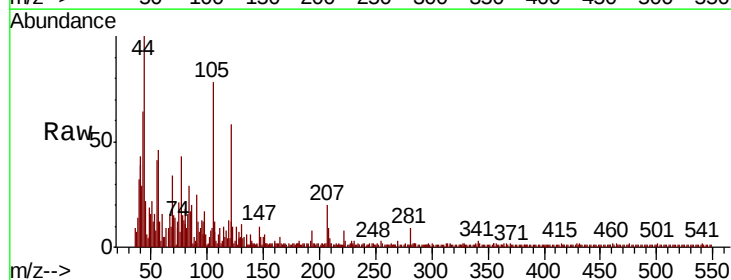
Instrument :
BNA_P
ClientSampleId :
LINDEN-BH-04-CDL

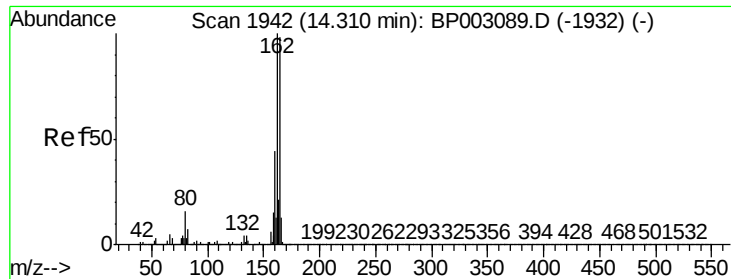
Tot Ion	82	Resp	305843
Ion Ratio	100	Lower	Upper
128	55.0	45.6	68.4
54	38.2	30.1	45.1



#32
Benzoic acid
Concen: 9.074 ng
RT: 9.73 min Scan# 1163
Delta R.T. -0.04 min
Lab File: BP003185.D
Acq: 02 Sep 2020 14:12

Tgt Ion	122	Resp	723
Ion Ratio	100	Lower	Upper
105	134.4	94.1	134.1#
77	75.0	50.1	90.1





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.29 min Scan# 1939

Delta R.T. -0.00 min

Lab File: BP003185.D

Acq: 02 Sep 2020 14:12

Instrument :

BNA_P

ClientSampleId :

LINDEN-BH-04-CDL

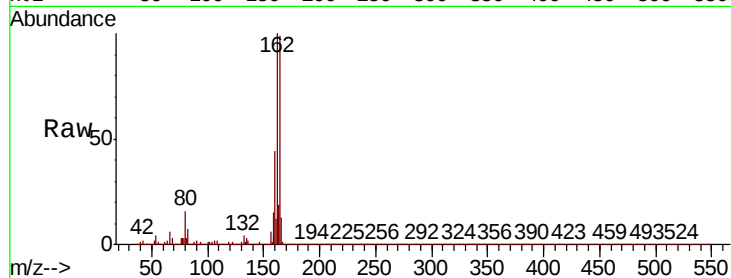
Tot Ion:164 Resp: 516588

Ion Ratio Lower Upper

164 100

162 100.8 79.4 119.2

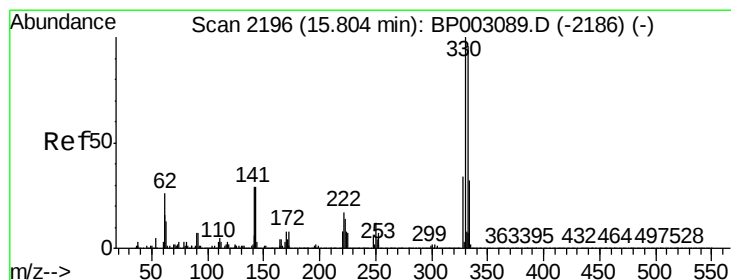
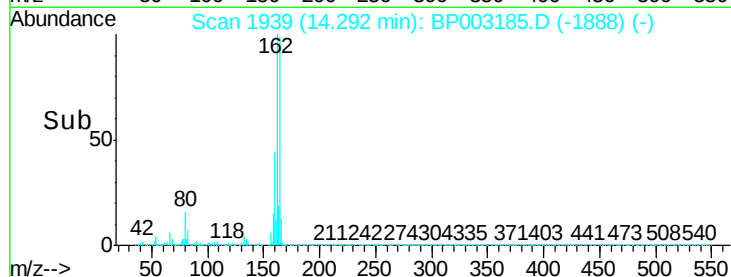
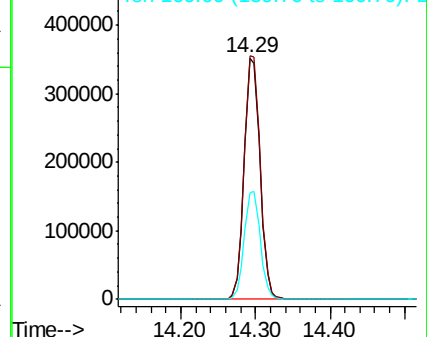
160 44.2 36.1 54.1



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#42

2,4,6-Tribromophenol

Concen: 40.170 ng

RT: 15.79 min Scan# 2194

Delta R.T. -0.00 min

Lab File: BP003185.D

Acq: 02 Sep 2020 14:12

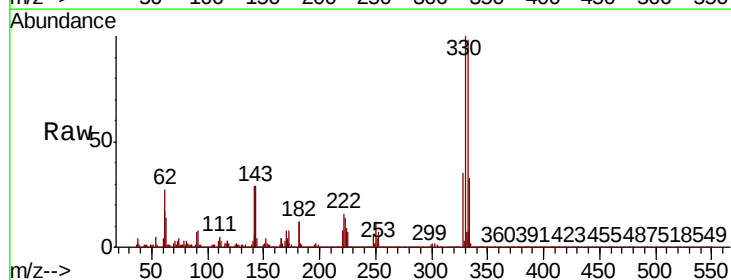
Tgt Ion:330 Resp: 280658

Ion Ratio Lower Upper

330 100

332 96.9 77.1 115.7

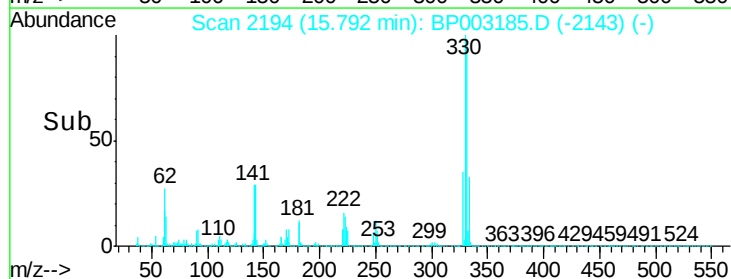
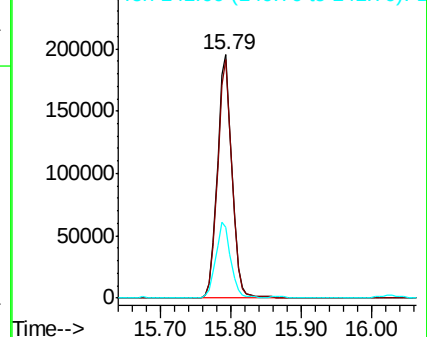
141 30.9 23.4 35.2

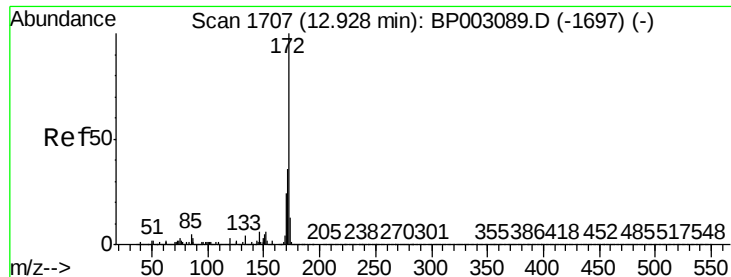


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

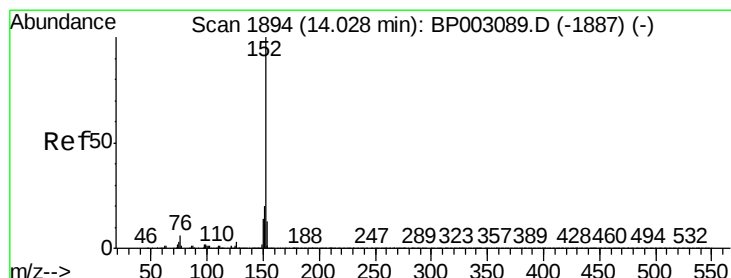
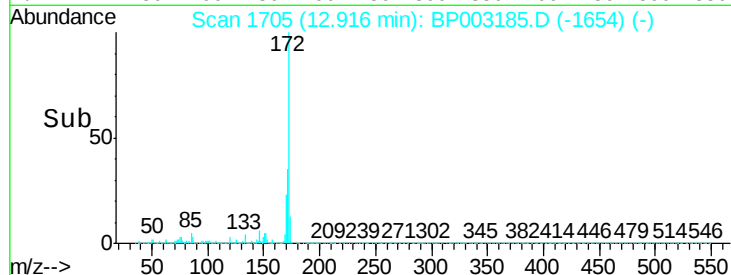
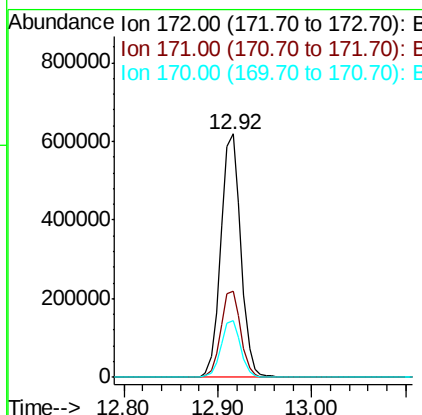
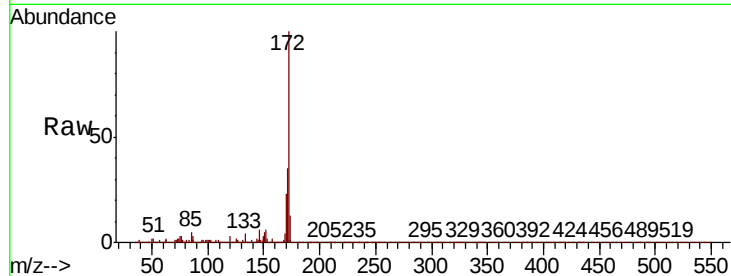




#45
2-Fluorobiphenyl
Concen: 26.012 ng
RT: 12.92 min Scan# 1705
Delta R.T. -0.00 min
Lab File: BP003185.D
Acq: 02 Sep 2020 14:12

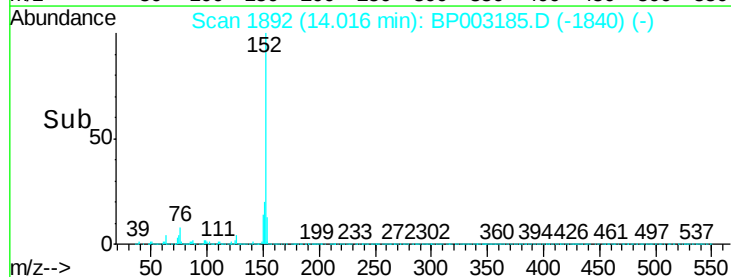
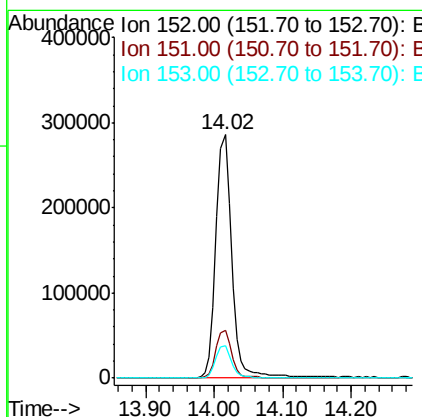
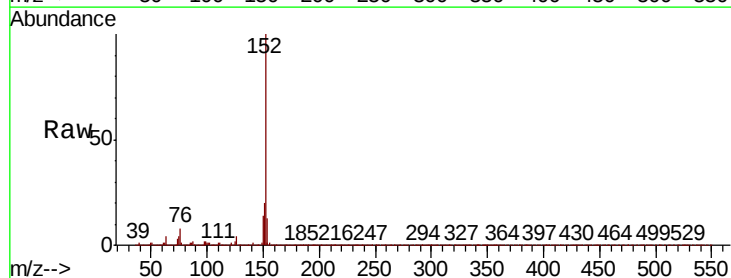
Instrument :
BNA_P
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LINDEN-BH-04-CDL

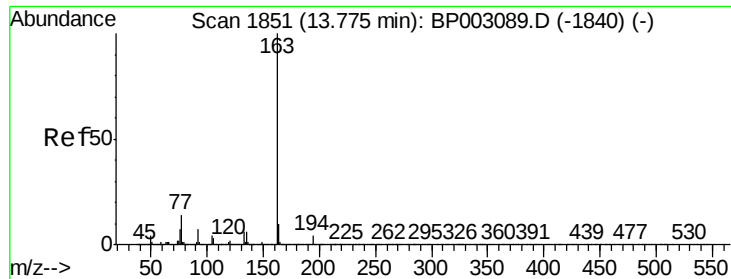
Tot Ion	Ratio	Lower	Upper
172	100		
171	35.4	28.5	42.7
170	23.5	19.2	28.8



#49
Acenaphthylene
Concen: 9.653 ng
RT: 14.02 min Scan# 1892
Delta R.T. 0.01 min
Lab File: BP003185.D
Acq: 02 Sep 2020 14:12

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.7	15.9	23.9
153	13.4	10.5	15.7





#50

Dimethylphthalate

Concen: 4.054 ng

RT: 13.75 min Scan# 1847

Delta R.T. -0.01 min

Lab File: BP003185.D

Acq: 02 Sep 2020 14:12

Instrument :

BNA_P

ClientSampleId :

LINDEN-BH-04-CDL

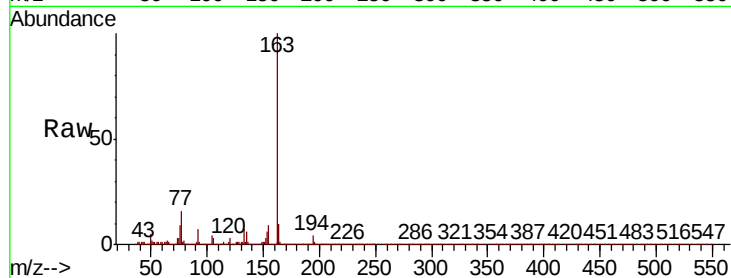
Tot Ion:163 Resp: 159690

Ion Ratio Lower Upper

163 100

194 3.6 3.3 4.9

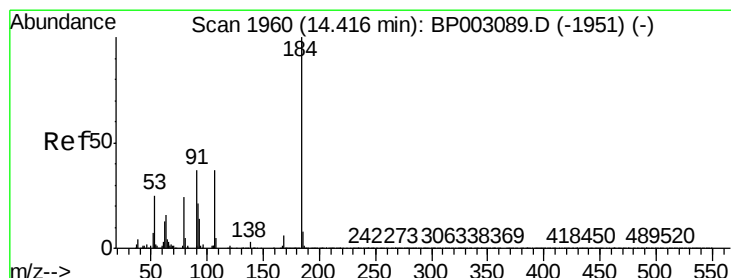
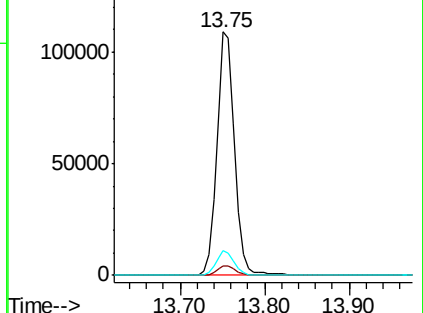
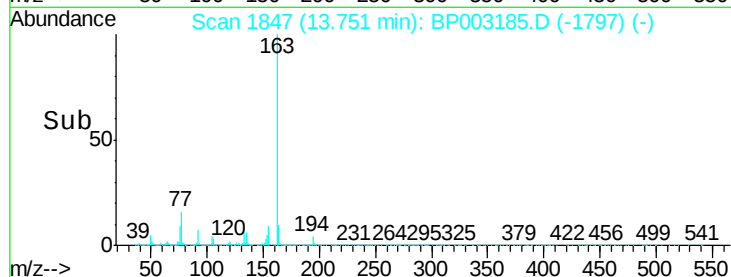
164 10.2 8.2 12.2



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#54

2,4-Dinitrophenol

Concen: 7.762 ng

RT: 14.42 min Scan# 1960

Delta R.T. 0.01 min

Lab File: BP003185.D

Acq: 02 Sep 2020 14:12

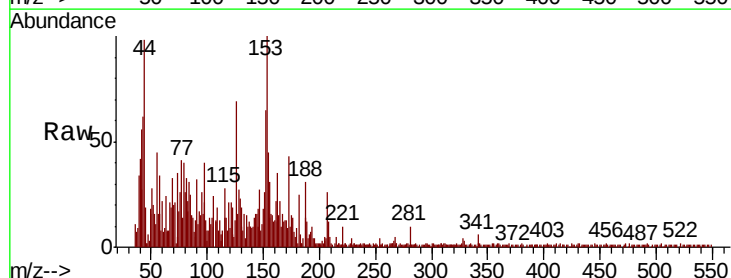
Tgt Ion:184 Resp: 36

Ion Ratio Lower Upper

184 100

63 700.0 32.3 48.5#

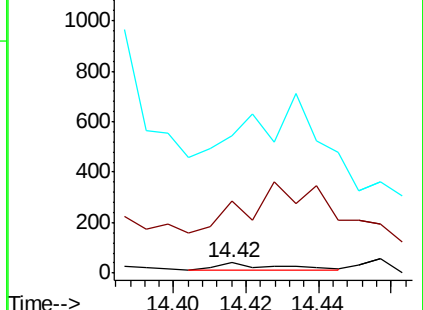
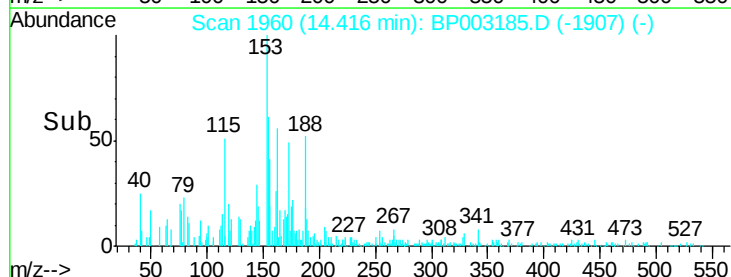
154 1334.1 49.1 73.7#

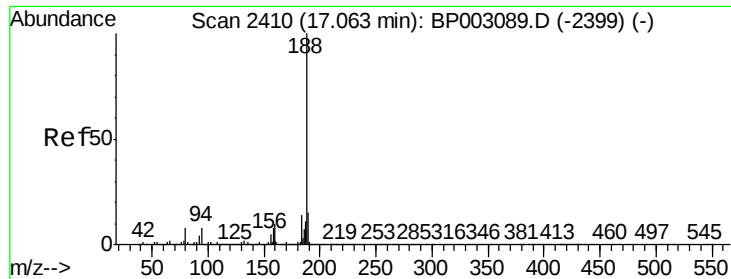


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 63.00 (62.70 to 63.70): BP0

Ion 154.00 (153.70 to 154.70): E





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.05 min Scan# 2408

Delta R.T. 0.01 min

Lab File: BP003185.D

Acq: 02 Sep 2020 14:12

Instrument :

BNA_P

ClientSampleId :

LINDEN-BH-04-CDL

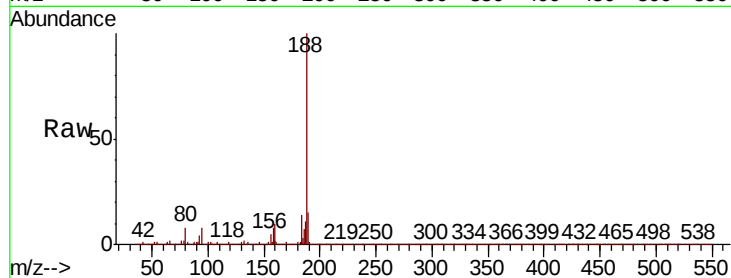
Tot Ion:188 Resp: 1163463

Ion Ratio Lower Upper

188 100

94 7.6 6.2 9.2

80 7.7 6.2 9.2



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BPO

Ion 80.00 (79.70 to 80.70): BPO

17.05

800000

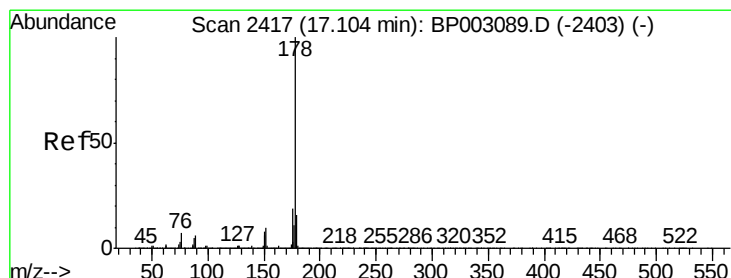
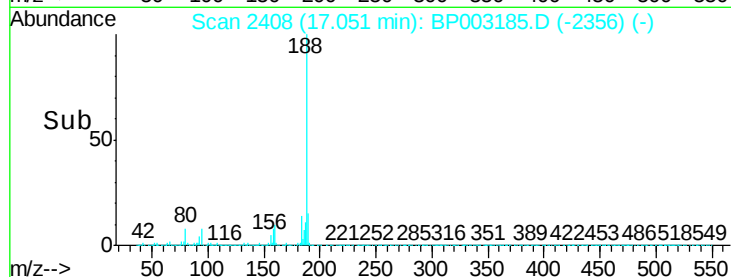
600000

400000

200000

0

Time-->



#71

Phenanthrene

Concen: 14.844 ng

RT: 17.09 min Scan# 2415

Delta R.T. 0.01 min

Lab File: BP003185.D

Acq: 02 Sep 2020 14:12

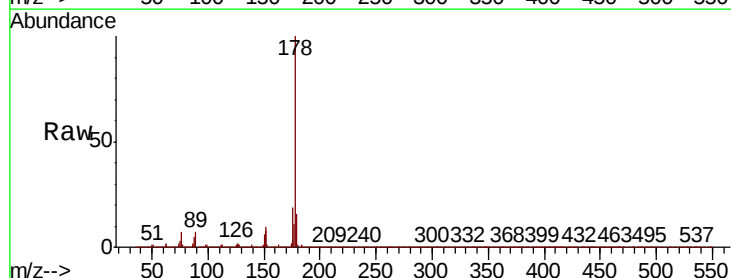
Tgt Ion:178 Resp: 935819

Ion Ratio Lower Upper

178 100

176 19.3 15.3 22.9

179 15.9 12.5 18.7



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

17.09

800000

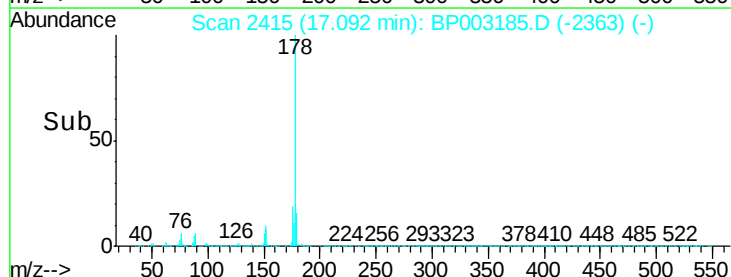
600000

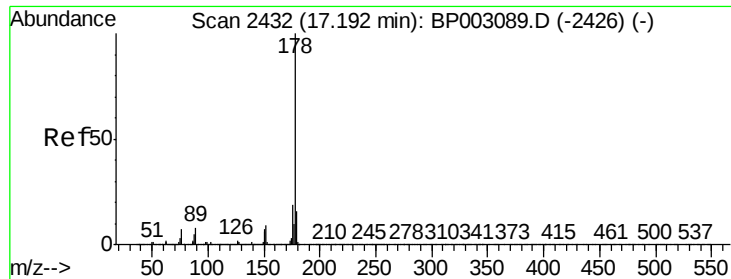
400000

200000

0

Time-->

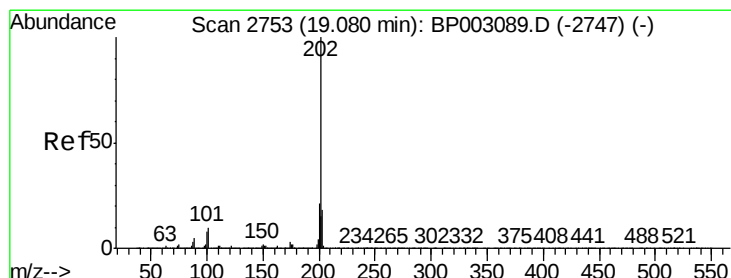
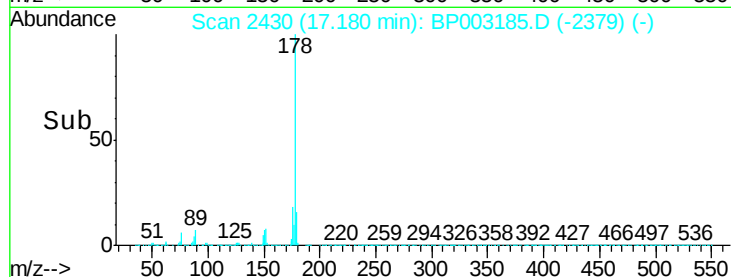
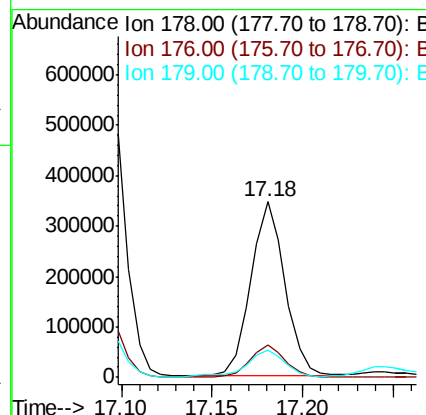
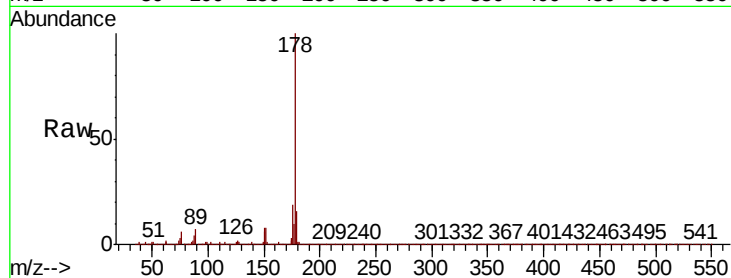




#72
 Anthracene
 Concen: 7.512 ng
 RT: 17.18 min Scan# 2430
 Delta R.T. -0.00 min
 Lab File: BP003185.D
 Acq: 02 Sep 2020 14:12

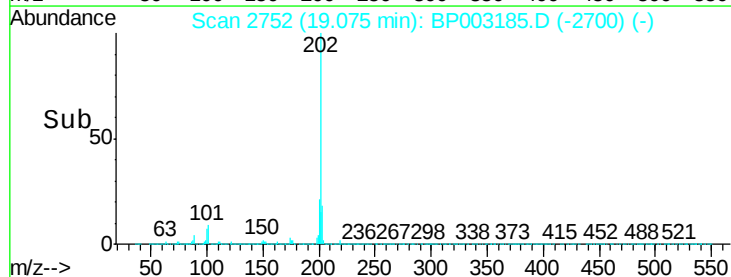
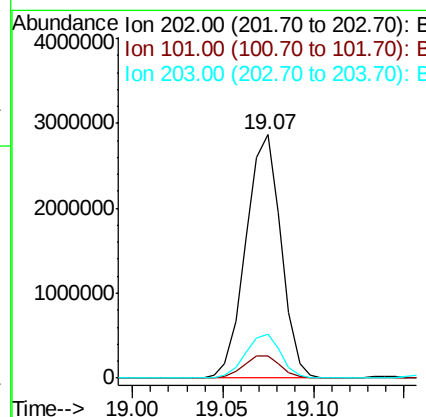
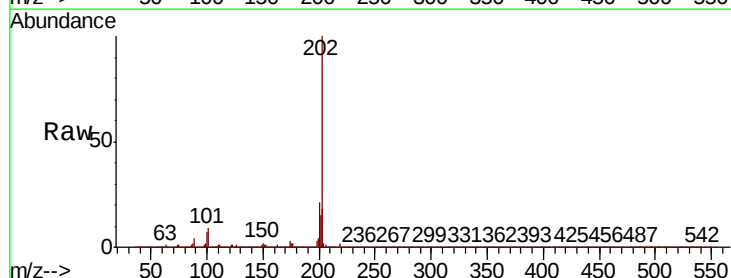
Instrument :
 BNA_P
 ClientSampleId :
 LINDEN-BH-04-CDL

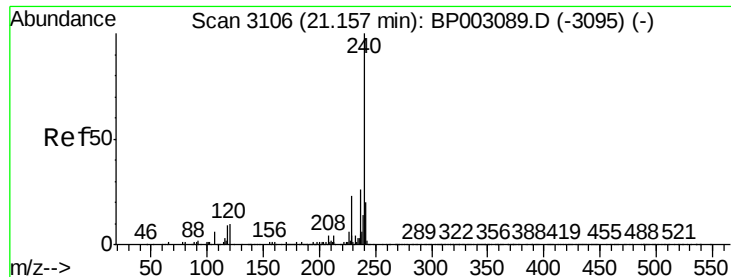
Tot Ion	Ratio	Lower	Upper
178	100		
176	18.5	15.0	22.4
179	15.9	12.5	18.7



#75
 Fluoranthene
 Concen: 52.928 ng
 RT: 19.07 min Scan# 2752
 Delta R.T. 0.01 min
 Lab File: BP003185.D
 Acq: 02 Sep 2020 14:12

Tgt Ion	Ratio	Lower	Upper
202	100		
101	9.3	0.0	29.4
203	18.2	0.0	37.8





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.14 min Scan# 3104

Delta R.T. -0.00 min

Lab File: BP003185.D

Acq: 02 Sep 2020 14:12

Instrument :

BNA_P

ClientSampleId :

LINDEN-BH-04-CDL

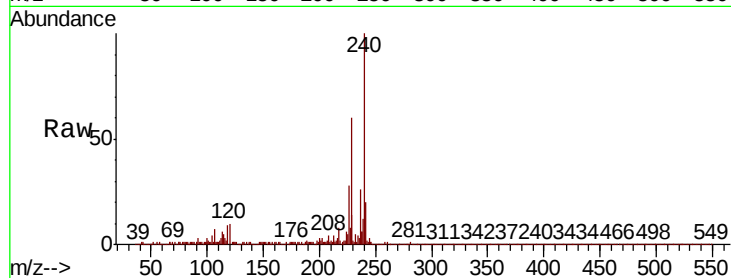
Tot Ion:240 Resp: 1249325

Ion Ratio Lower Upper

240 100

120 10.3 7.8 11.6

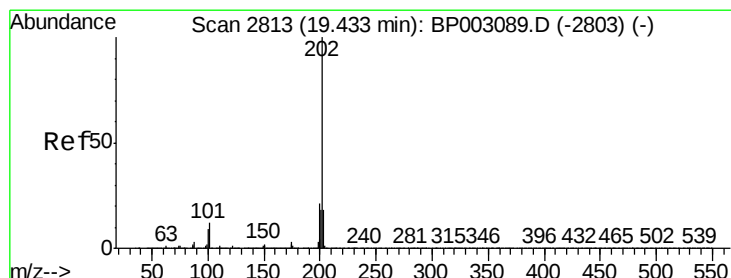
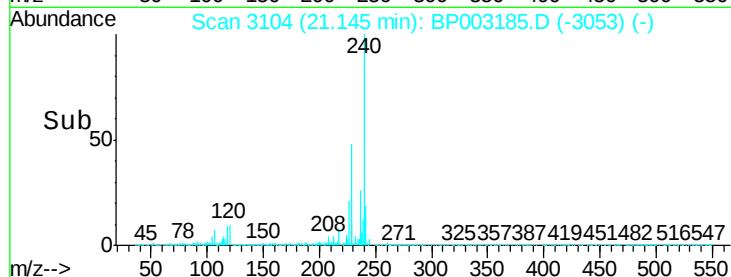
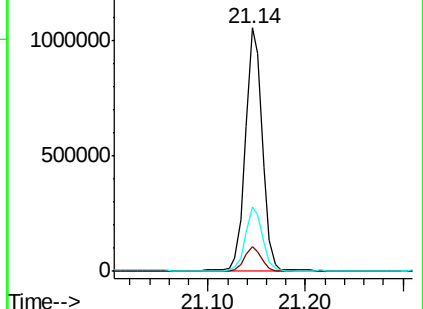
236 26.3 20.8 31.2



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#78

Pyrene

Concen: 47.323 ng

RT: 19.42 min Scan# 2811

Delta R.T. 0.01 min

Lab File: BP003185.D

Acq: 02 Sep 2020 14:12

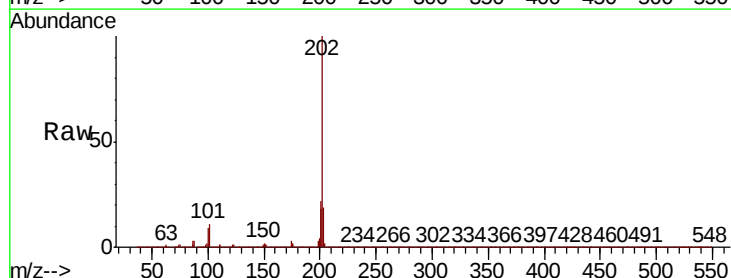
Tgt Ion:202 Resp: 3837196

Ion Ratio Lower Upper

202 100

200 21.8 17.1 25.7

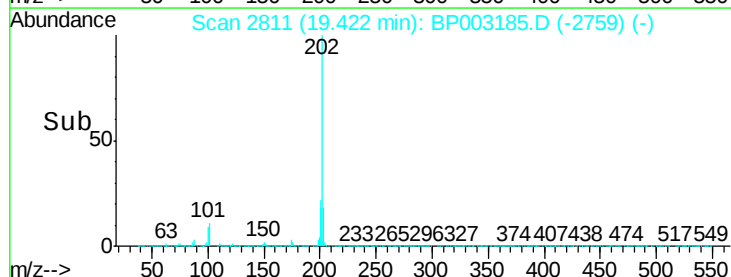
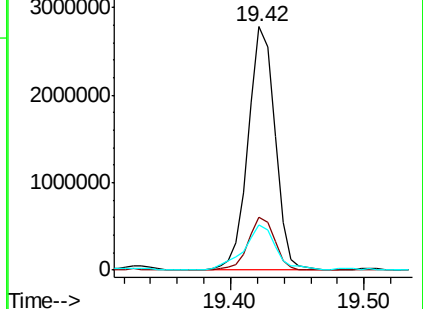
203 18.5 14.2 21.2

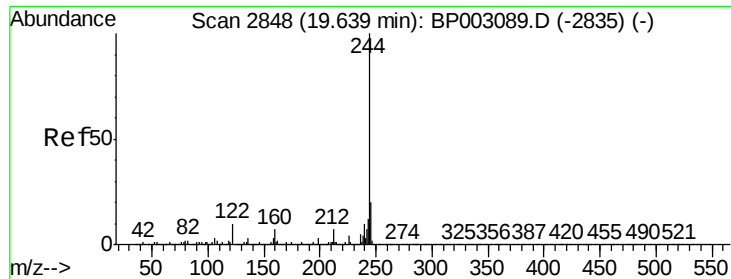


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

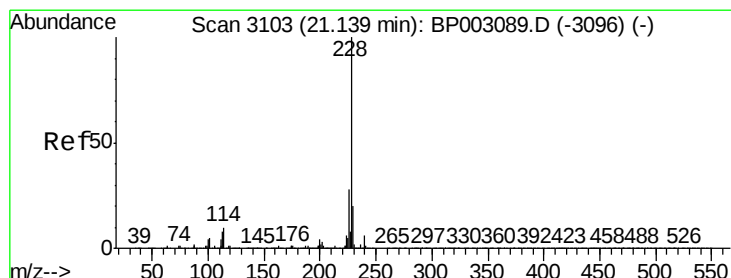
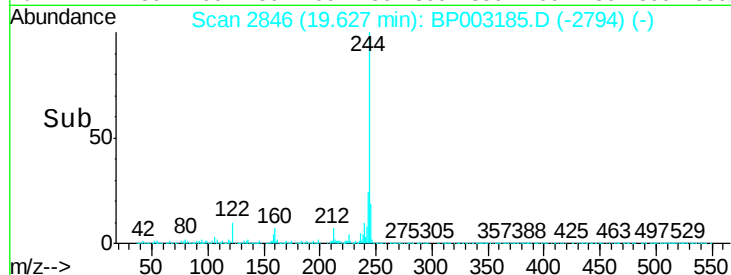
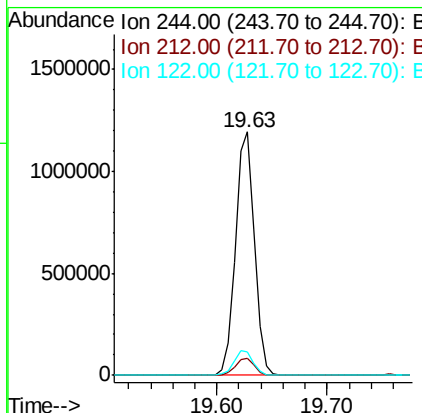
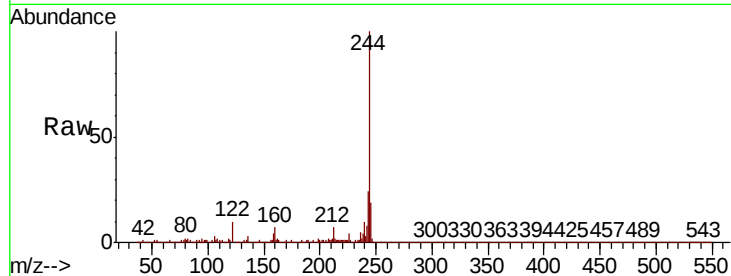




#79
 Terphenyl-d14
 Concen: 25.247 ng
 RT: 19.63 min Scan# 2846
 Delta R.T. 0.01 min
 Lab File: BP003185.D
 Acq: 02 Sep 2020 14:12

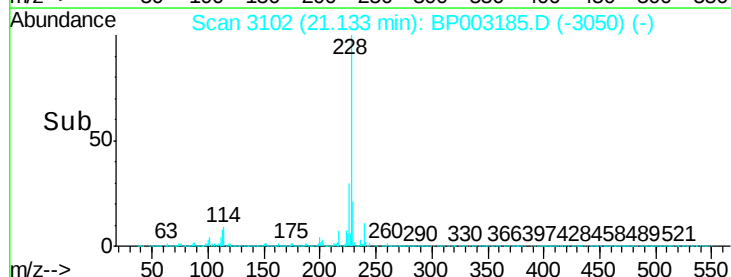
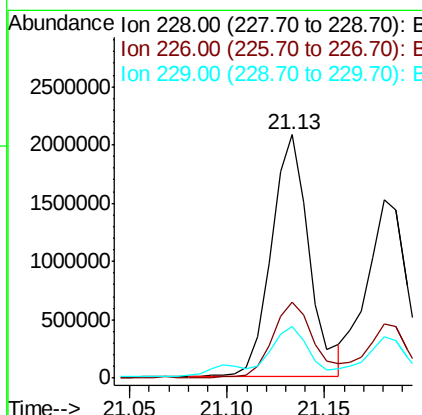
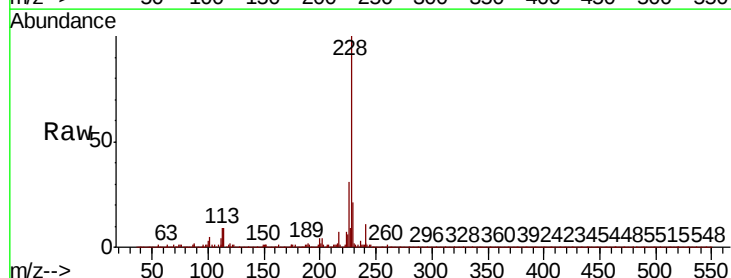
Instrument :
 BNA_P
 ClientSampleId :
 LINDEN-BH-04-CDL

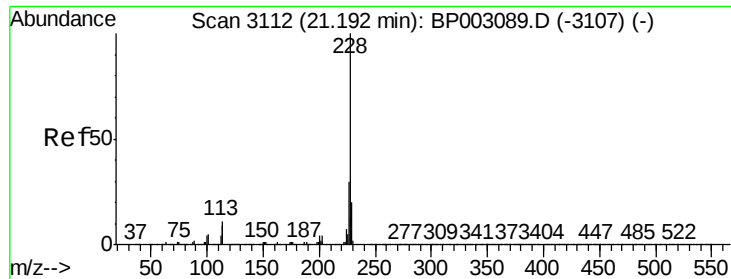
Tot Ion:244 Resp: 1433430
 Ion Ratio Lower Upper
 244 100
 212 7.1 5.8 8.6
 122 9.6 7.8 11.8



#81
 Benzo(a)anthracene
 Concen: 35.578 ng
 RT: 21.13 min Scan# 3102
 Delta R.T. 0.01 min
 Lab File: BP003185.D
 Acq: 02 Sep 2020 14:12

Tgt Ion:228 Resp: 2784186
 Ion Ratio Lower Upper
 228 100
 226 31.3 22.1 33.1
 229 21.4 15.9 23.9





#83

Chrysene

Concen: 28.517 ng

RT: 21.18 min Scan# 3110

Delta R.T. -0.00 min

Lab File: BP003185.D

Acq: 02 Sep 2020 14:12

Instrument :

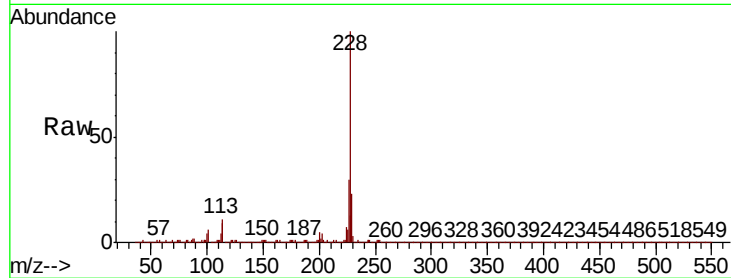
BNA_P

ClientSampleId :

LINDEN-BH-04-CDL

Tot Ion:228 Resp: 2136690

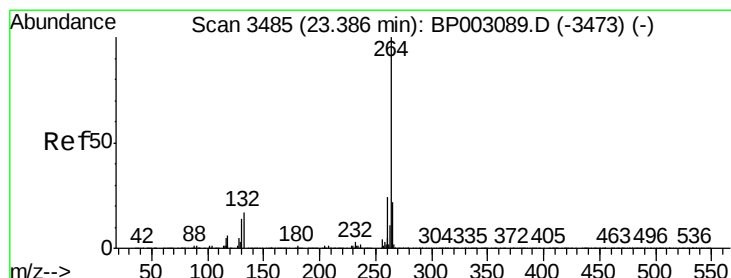
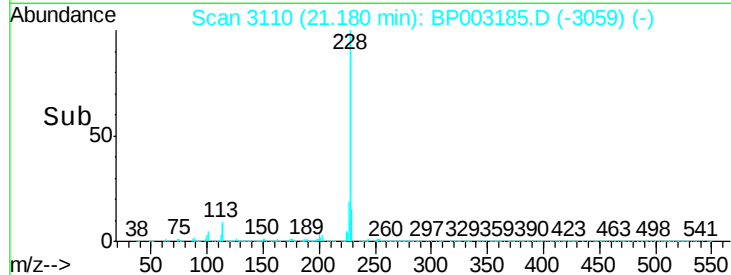
Ion	Ratio	Lower	Upper
228	100		
226	30.4	24.4	36.6
229	23.1	15.8	23.6



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#86

Perylene-d12

Concen: 20.000 ng

RT: 23.38 min Scan# 3484

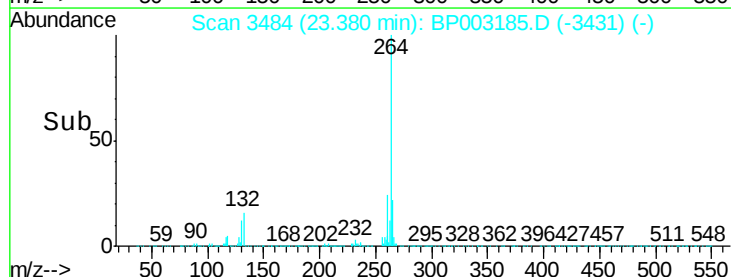
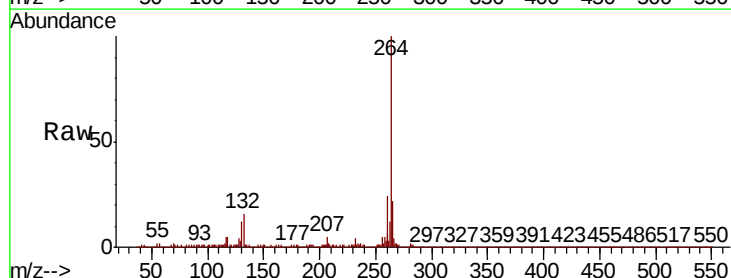
Delta R.T. 0.01 min

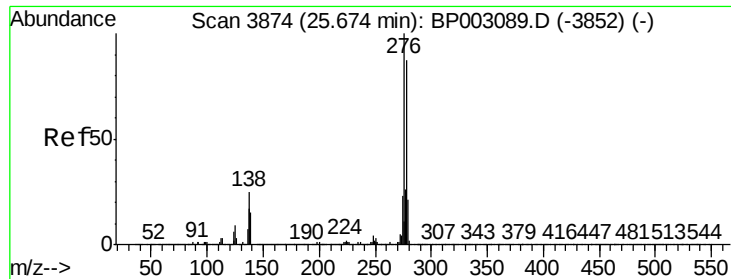
Lab File: BP003185.D

Acq: 02 Sep 2020 14:12

Tgt Ion:264 Resp: 1354375

Ion	Ratio	Lower	Upper
264	100		
260	24.3	18.8	28.2
265	22.4	17.4	26.2

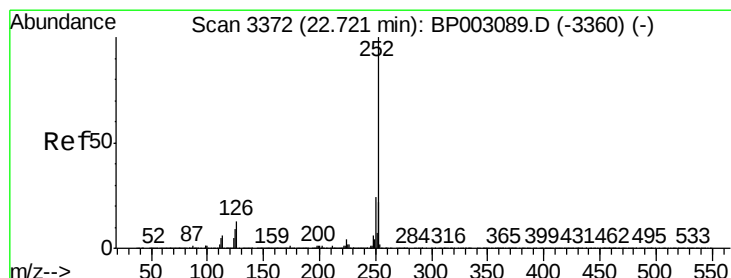
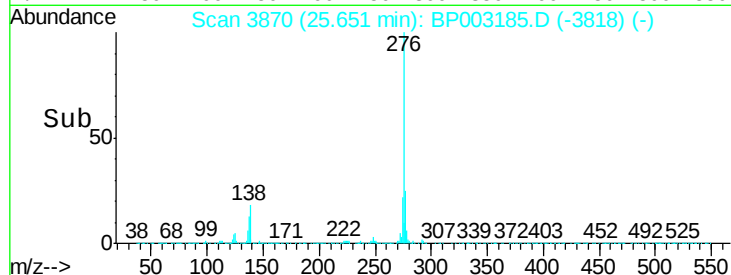
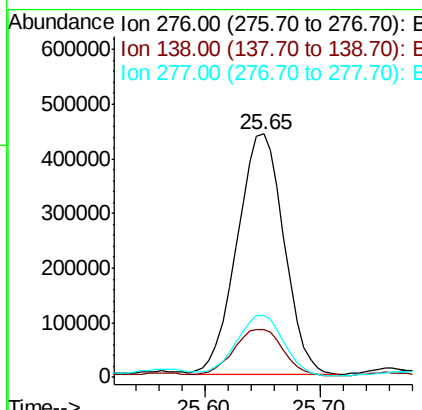
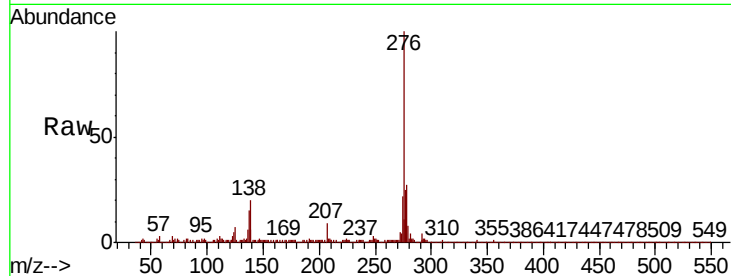




#87
 Indeno(1,2,3-cd)pyrene
 Concen: 12.261 ng
 RT: 25.65 min Scan# 3870
 Delta R.T. 0.01 min
 Lab File: BP003185.D
 Acq: 02 Sep 2020 14:12

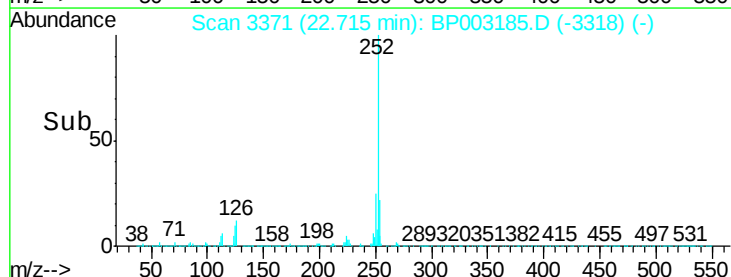
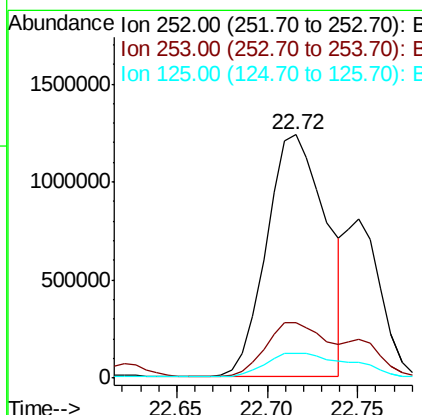
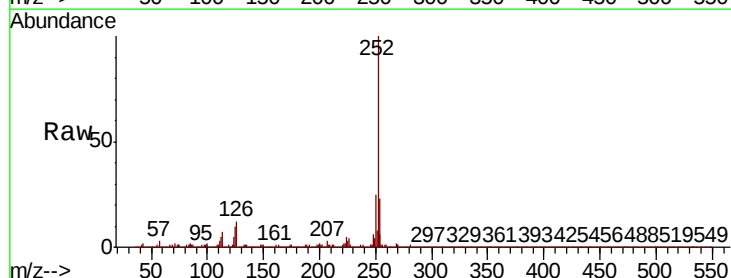
Instrument :
 BNA_P
 ClientSampleId :
 LINDEN-BH-04-CDL

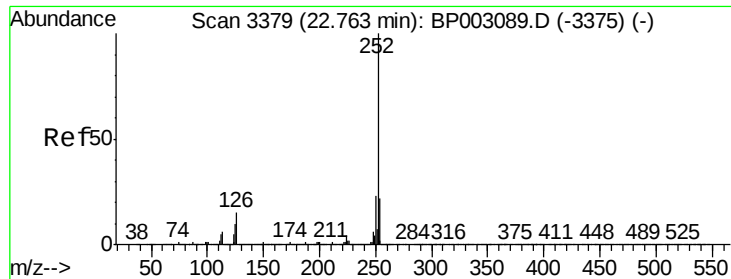
Tot Ion:276 Resp: 1238387
 Ion Ratio Lower Upper
 276 100
 138 20.5 18.7 28.1
 277 25.6 20.4 30.6



#88
 Benzo(b)fluoranthene
 Concen: 33.690 ng
 RT: 22.72 min Scan# 3371
 Delta R.T. 0.01 min
 Lab File: BP003185.D
 Acq: 02 Sep 2020 14:12

Tgt Ion:252 Resp: 2835970
 Ion Ratio Lower Upper
 252 100
 253 22.9 17.6 26.4
 125 10.4 7.3 10.9

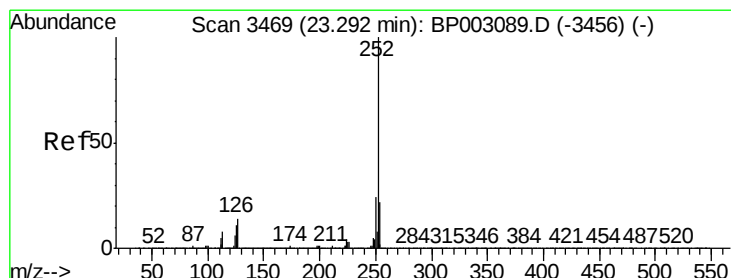
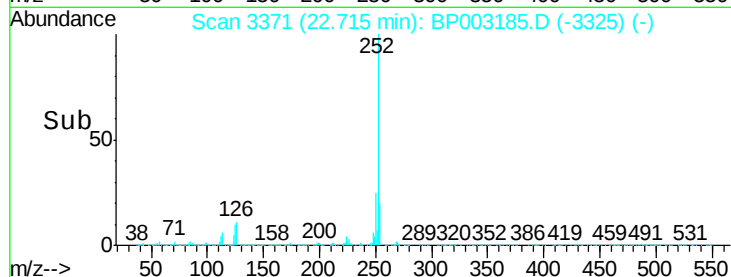
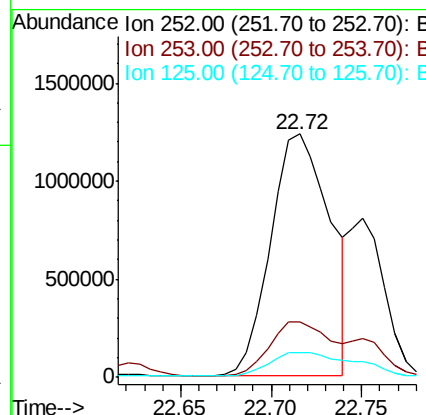
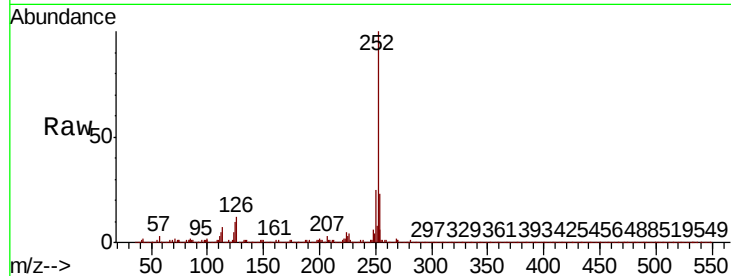




#89
Benzo(k)fluoranthene
Concen: 35.261 ng
RT: 22.72 min Scan# 3371
Delta R.T. -0.03 min
Lab File: BP003185.D
Acq: 02 Sep 2020 14:12

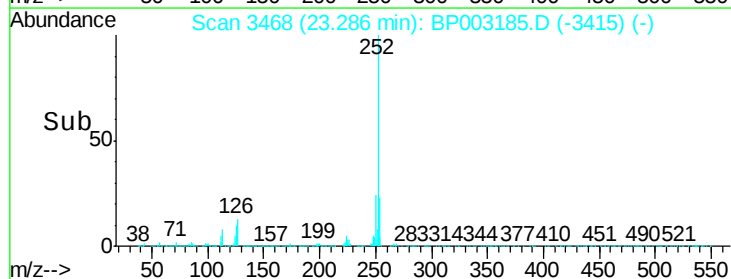
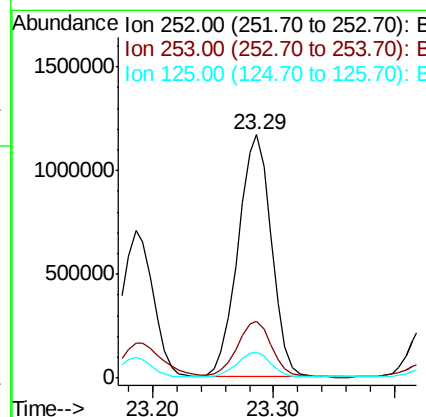
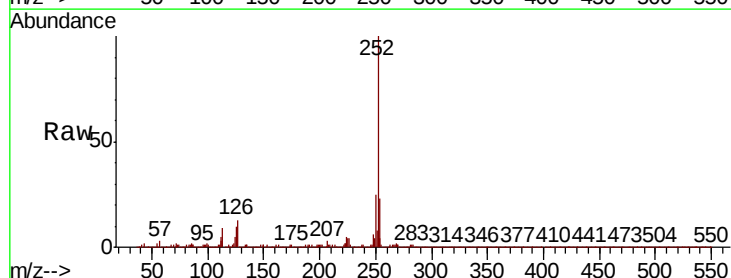
Instrument :
BNA_P
ClientSampleId :
LINDEN-BH-04-CDL

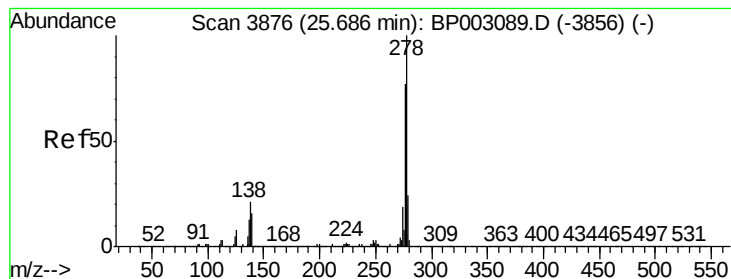
Tot Ion:252 Resp: 2835970
Ion Ratio Lower Upper
252 100
253 22.9 17.8 26.8
125 10.4 7.4 11.2



#90
Benzo(a)pyrene
Concen: 28.737 ng
RT: 23.29 min Scan# 3468
Delta R.T. 0.01 min
Lab File: BP003185.D
Acq: 02 Sep 2020 14:12

Tgt Ion:252 Resp: 2244240
Ion Ratio Lower Upper
252 100
253 23.4 17.4 26.0
125 10.4 8.2 12.4





#91

Dibenzo(a,h)anthracene

Concen: 4.334 ng

RT: 25.92 min Scan# 3915

Delta R.T. 0.26 min

Lab File: BP003185.D

Acq: 02 Sep 2020 14:12

Instrument :

BNA_P

ClientSampleId :

LINDEN-BH-04-CDL

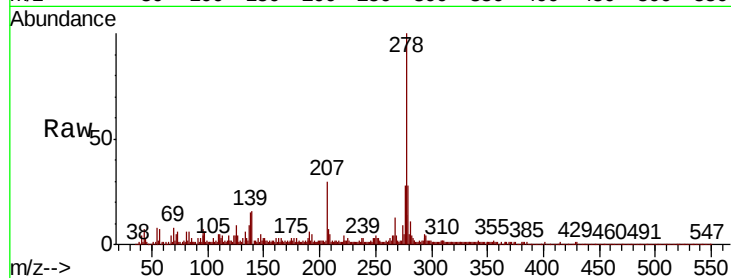
Tot Ion:278 Resp: 359584

Ion Ratio Lower Upper

278 100

139 16.4 12.4 18.6

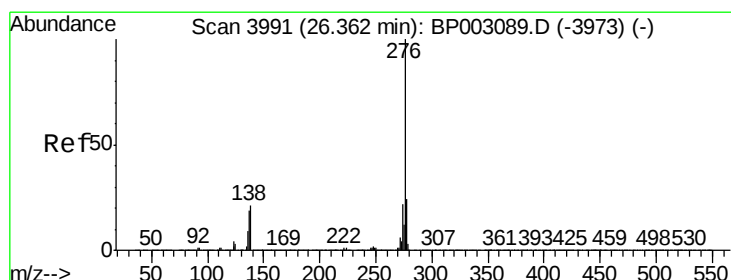
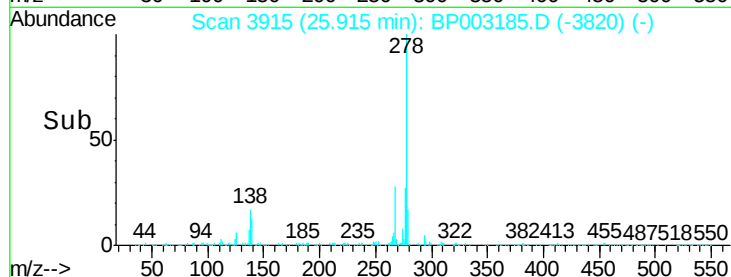
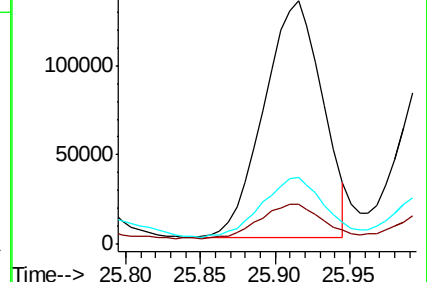
279 27.6 19.0 28.6



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#92

Benzo(g,h,i)perylene

Concen: 12.403 ng

RT: 26.34 min Scan# 3988

Delta R.T. 0.01 min

Lab File: BP003185.D

Acq: 02 Sep 2020 14:12

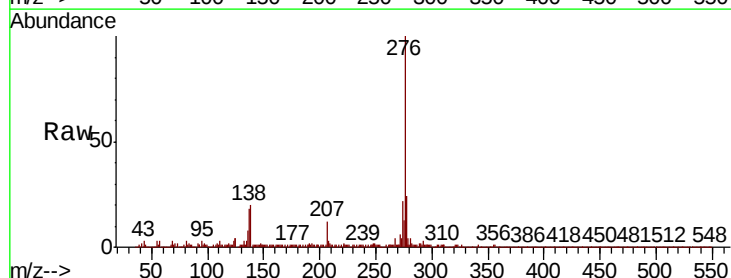
Tgt Ion:276 Resp: 1032751

Ion Ratio Lower Upper

276 100

277 24.3 19.0 28.6

138 20.1 16.6 24.8



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

