

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF090120\
 Data File : BF121512.D
 Acq On : 1 Sep 2020 23:17
 Operator : JU/CG
 Sample : L3847-09DL 25X
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 LINDEN-JOP-BH-09-BDL

Quant Time: Sep 02 00:39:20 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF082720.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Aug 28 09:25:49 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.86	152	277362	20.00	ng	0.00
21) Naphthalene-d8	8.14	136	1070512	20.00	ng	0.00
39) Acenaphthene-d10	9.90	164	494908	20.00	ng	0.00
64) Phenanthrene-d10	11.39	188	840977	20.00	ng	0.00
76) Chrysene-d12	14.03	240	637344	20.00	ng	0.00
86) Perylene-d12	15.51	264	752091	20.00	ng	0.02

System Monitoring Compounds

5) 2-Fluorophenol	5.46	112	25300	1.53	ng	-0.01
7) Phenol-d6	6.47	99	37575	1.63	ng	-0.02
23) Nitrobenzene-d5	7.42	82	21361	1.36	ng	-0.01
42) 2,4,6-Tribromophenol	10.69	330	8274	1.66	ng	0.00
45) 2-Fluorobiphenyl	9.22	172	55375	1.81	ng	-0.01
79) Terphenyl-d14	12.97	244	47674	1.57	ng	0.00

Target Compounds

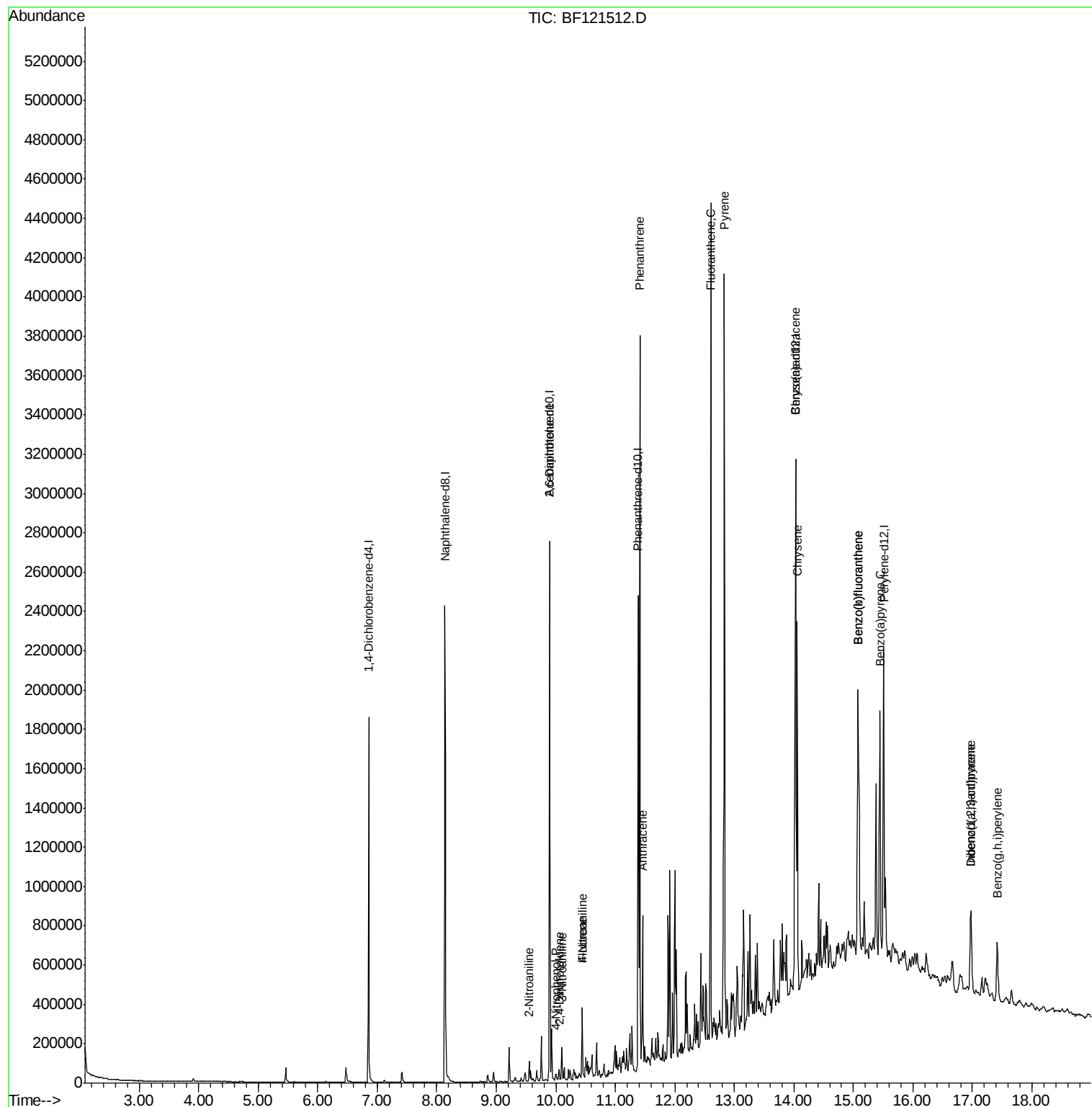
	R.T.	QIon	Response	Conc	Units	Qvalue
9) Benzaldehyde	6.56	77	125	Below Cal		# 2
48) 2-Nitroaniline	9.56	65	370	6.685	ng	# 5
51) 2,6-Dinitrotoluene	9.90	165	66214	15.421	ng	# 24
53) 3-Nitroaniline	10.10	138	777	5.537	ng	# 4
56) 4-Nitrophenol	10.00	139	780	7.964	ng	# 33
57) 2,4-Dinitrotoluene	10.06	165	2463	7.542	ng	# 48
58) Fluorene	10.45	166	97897	3.075	ng	# 98
62) 4-Nitroaniline	10.45	138	861	4.629	ng	# 18
71) Phenanthrene	11.41	178	1303261	30.198	ng	# 99
72) Anthracene	11.46	178	280826	6.616	ng	# 95
75) Fluoranthene	12.60	202	1562321	33.589	ng	# 98
78) Pyrene	12.83	202	1534513	33.712	ng	# 98
81) Benzo(a)anthracene	14.02	228	704892	18.118	ng	# 97
83) Chrysene	14.06	228	703193	18.066	ng	# 97
87) Indeno(1,2,3-cd)pyrene	16.97	276	279452	6.039	ng	# 95
88) Benzo(b)fluoranthene	15.07	252	1074044	21.954	ng	# 99
89) Benzo(k)fluoranthene	15.07	252	1074044	23.603	ng	# 98
90) Benzo(a)pyrene	15.44	252	626643	14.244	ng	# 98
91) Dibenzo(a,h)anthracene	16.98	278	78374	2.069	ng	# 88
92) Benzo(a,h,i)perylene	17.42	276	250203	6.857	ng	# 99

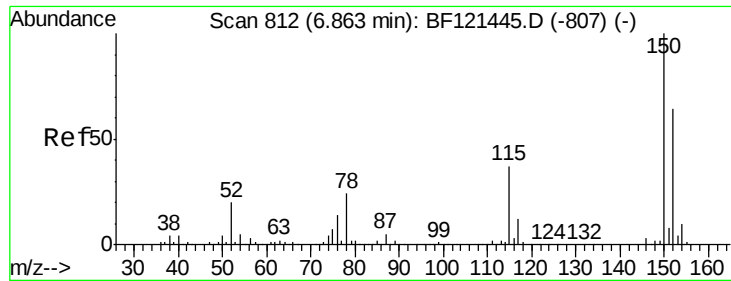
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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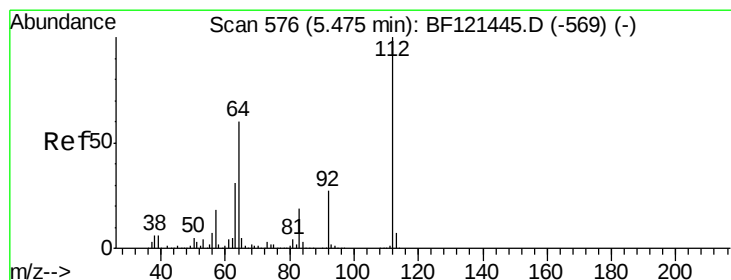
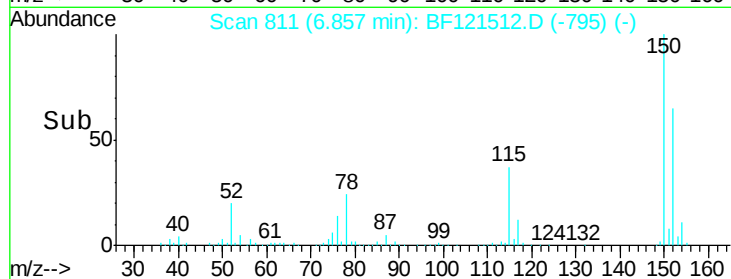
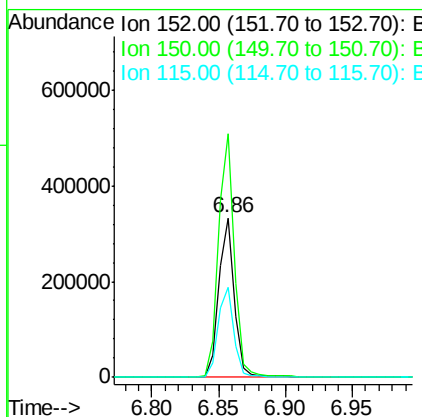
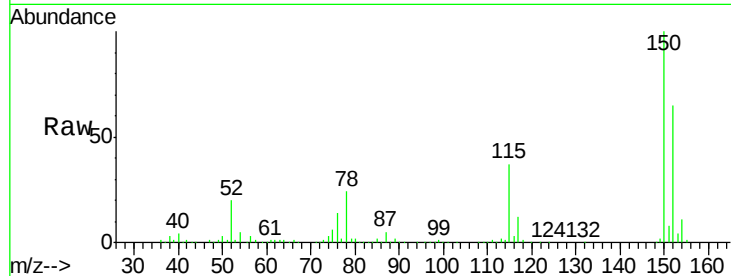


#1

1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.86 min Scan# 811
 Delta R.T. -0.01 min
 Lab File: BF121512.D
 Acq: 1 Sep 2020 23:17

Instrument :
 BNA_F
 ClientSampleId :
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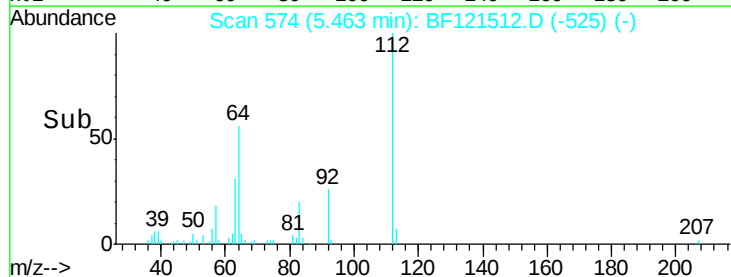
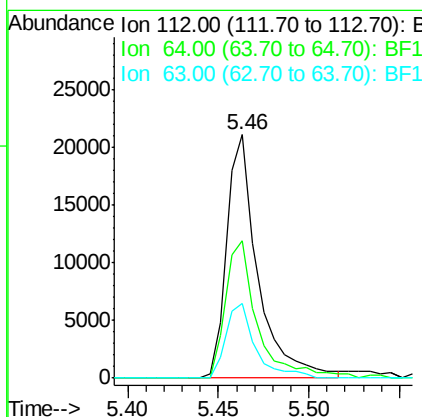
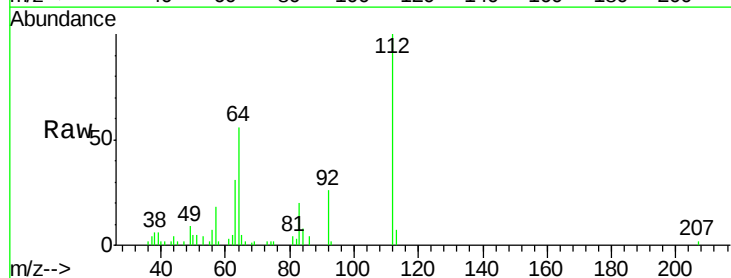
Tot Ion:152 Resp: 277362
 Ion Ratio Lower Upper
 152 100
 150 152.8 125.8 188.6
 115 56.6 46.6 69.8

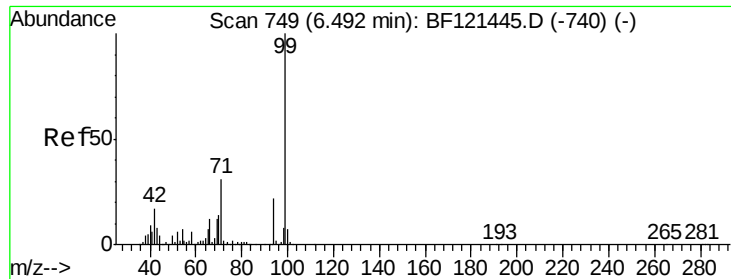


#5

2-Fluorophenol
 Concen: 1.530 ng
 RT: 5.46 min Scan# 574
 Delta R.T. -0.01 min
 Lab File: BF121512.D
 Acq: 1 Sep 2020 23:17

Tgt Ion:112 Resp: 25300
 Ion Ratio Lower Upper
 112 100
 64 56.5 48.2 72.2
 63 30.8 24.8 37.2





#7

Phenol-d6

Concen: 1.626 ng

RT: 6.47 min Scan# 746

Delta R.T. -0.02 min

Lab File: BF121512.D

Acq: 1 Sep 2020 23:17

Instrument :

BNA_F

ClientSampleId :

LINDEN-JOP-BH-09-BDL

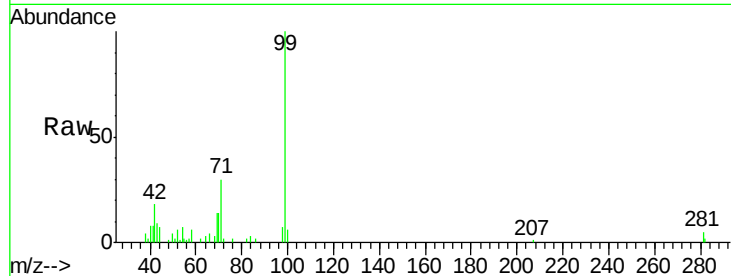
Tot Ion: 99 Resp: 37575

Ion Ratio Lower Upper

99 100

42 17.7 13.5 20.3

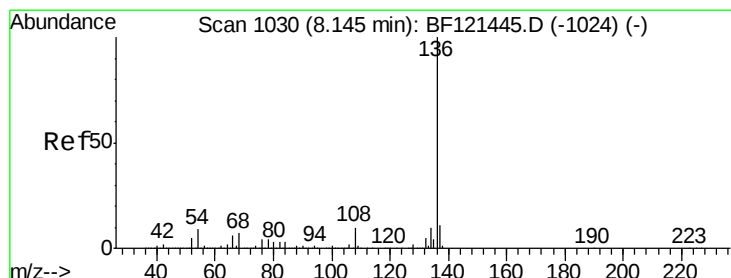
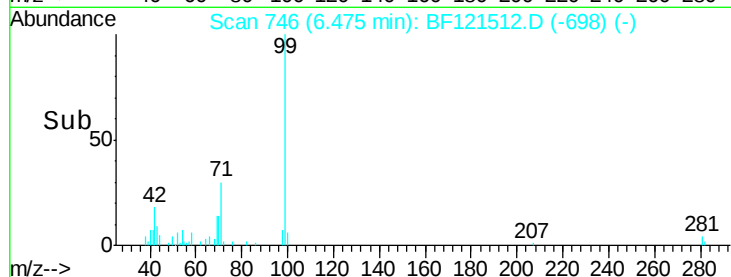
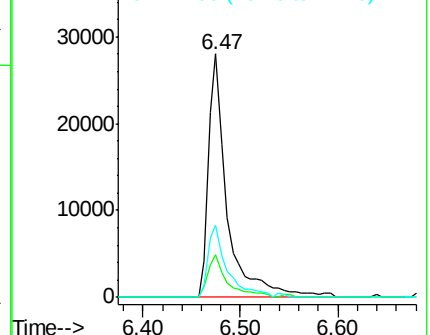
71 29.6 24.6 37.0



Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.14 min Scan# 1029

Delta R.T. -0.01 min

Lab File: BF121512.D

Acq: 1 Sep 2020 23:17

Tgt Ion: 136 Resp: 1070512

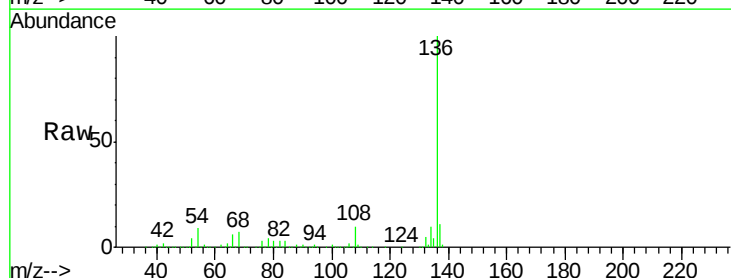
Ion Ratio Lower Upper

136 100

137 11.3 9.1 13.7

54 8.6 7.0 10.4

68 6.9 5.5 8.3

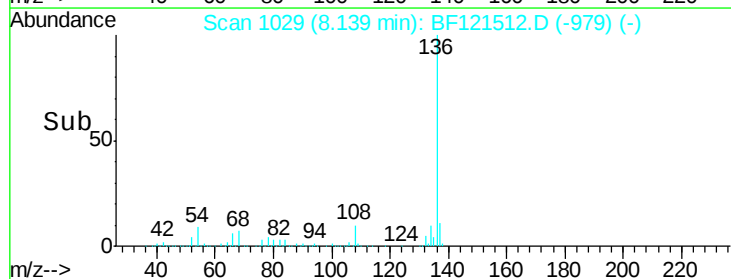
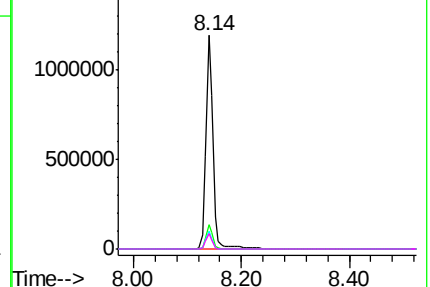


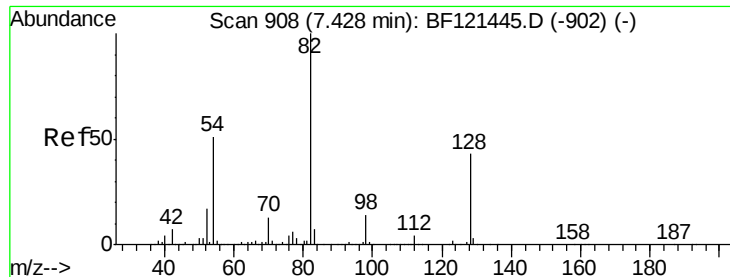
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1

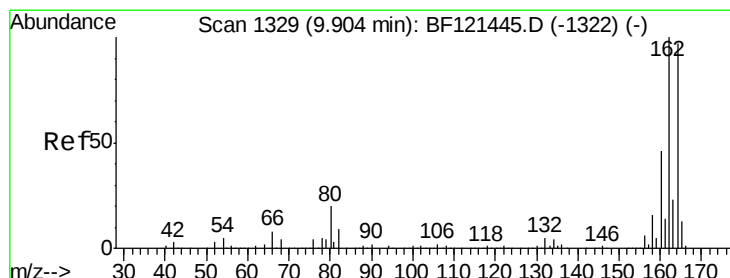
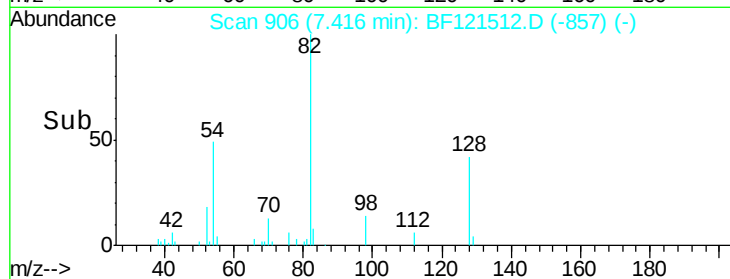
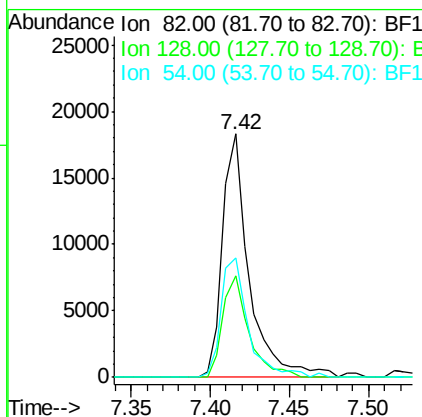
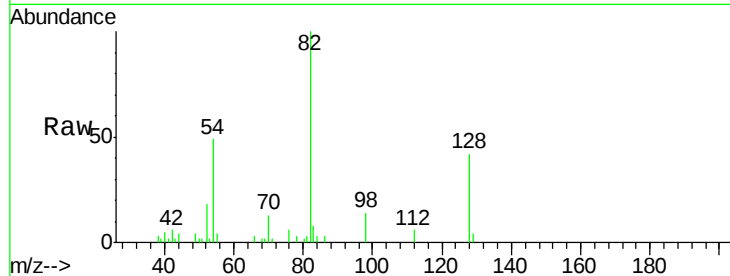




#23
 Nitrobenzene-d5
 Concen: 1.364 ng
 RT: 7.42 min Scan# 906
 Delta R.T. -0.01 min
 Lab File: BF121512.D
 Acq: 1 Sep 2020 23:17

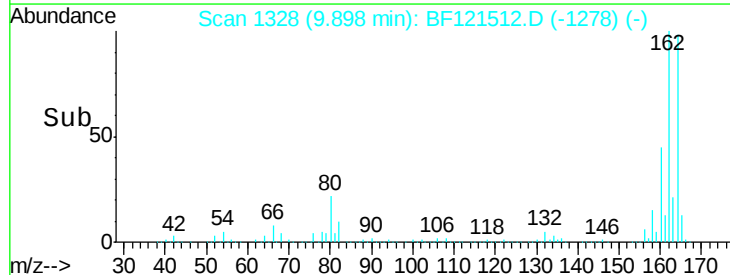
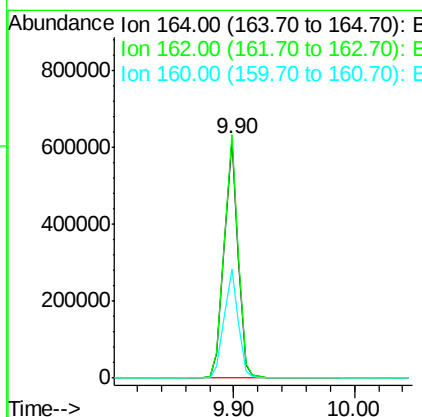
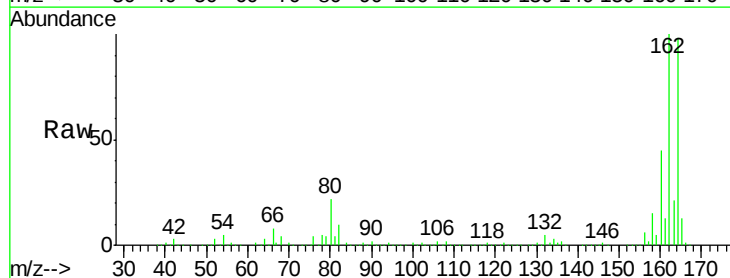
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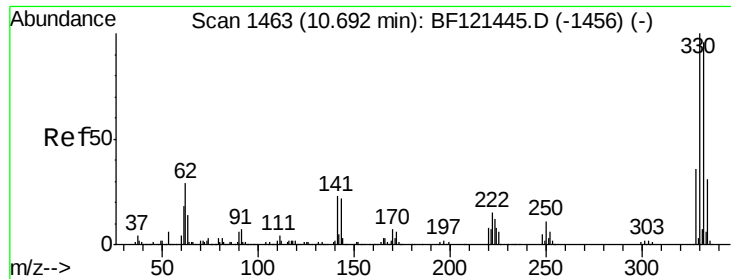
Tot Ion	82	Resp	21361
Ion Ratio	Lower	Upper	
82	100		
128	41.6	34.1	51.1
54	48.8	41.0	61.6



#39
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.90 min Scan# 1328
 Delta R.T. -0.01 min
 Lab File: BF121512.D
 Acq: 1 Sep 2020 23:17

Tgt Ion	164	Resp	494908
Ion Ratio	Lower	Upper	
164	100		
162	101.9	82.4	123.6
160	45.8	37.6	56.4

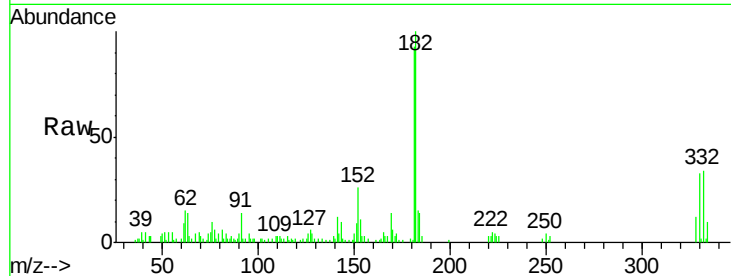




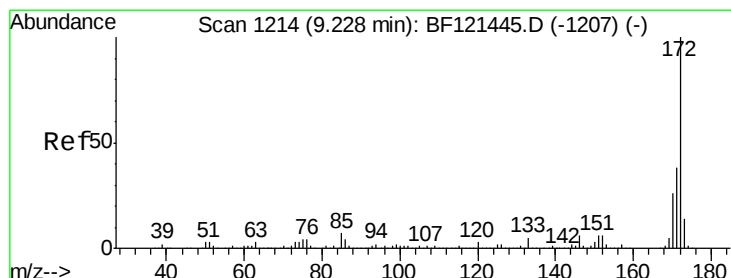
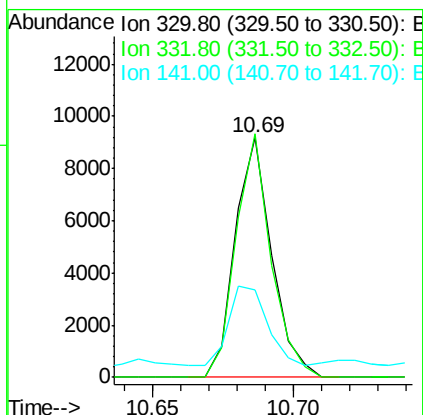
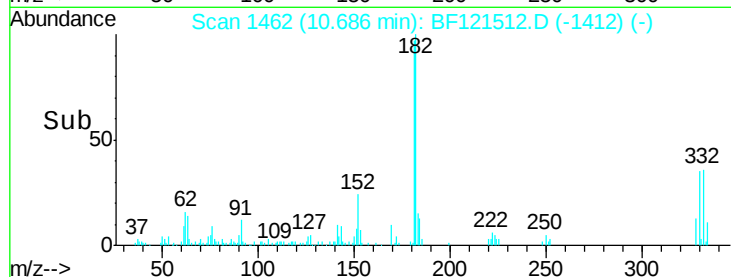
#42
 2,4,6-Tribromophenol
 Concen: 1.655 ng
 RT: 10.69 min Scan# 1462
 Delta R.T. -0.01 min
 Lab File: BF121512.D
 Acq: 1 Sep 2020 23:17

Instrument :
 BNA_F
 ClientSampleId :
 LINDEN-JOP-BH-09-BDL

Tot Ion:330 Resp: 8274
 Ion Ratio Lower Upper
 330 100
 332 97.0 76.2 114.2
 141 34.9 24.6 36.8

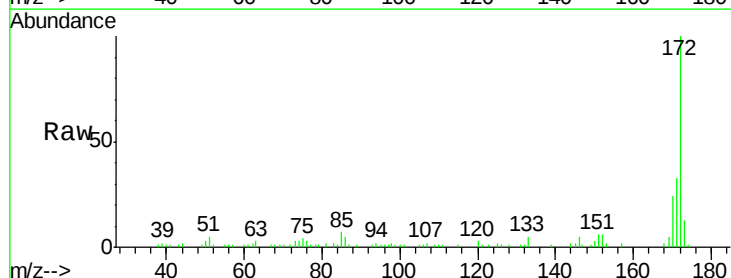


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

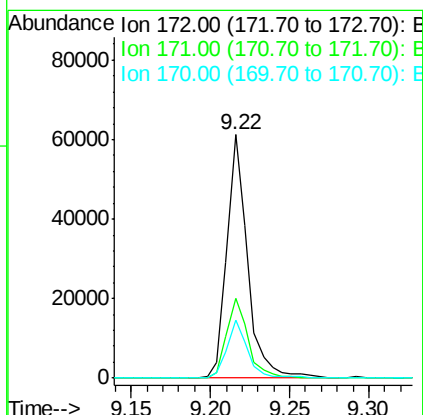
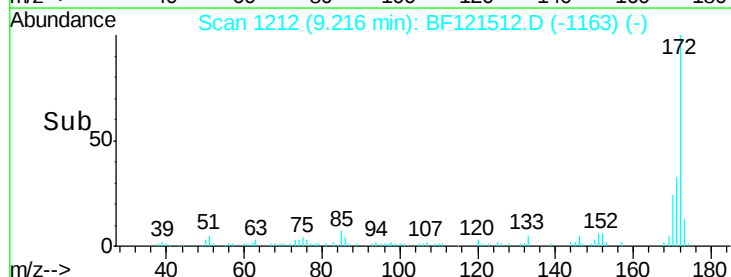


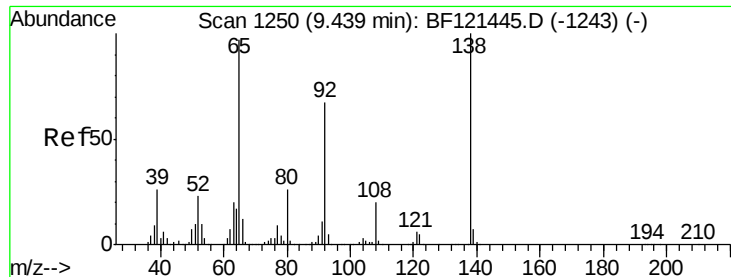
#45
 2-Fluorobiphenyl
 Concen: 1.805 ng
 RT: 9.22 min Scan# 1212
 Delta R.T. -0.01 min
 Lab File: BF121512.D
 Acq: 1 Sep 2020 23:17

Tgt Ion:172 Resp: 55375
 Ion Ratio Lower Upper
 172 100
 171 32.9 30.6 45.8
 170 23.7 20.6 31.0



Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E

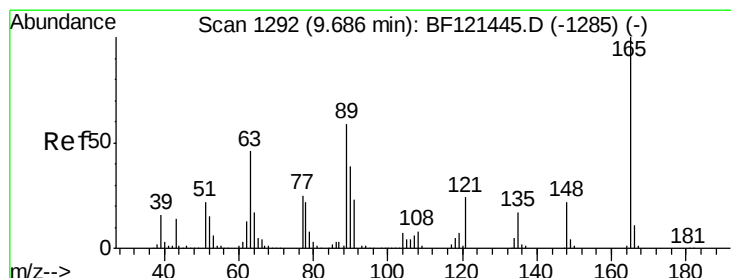
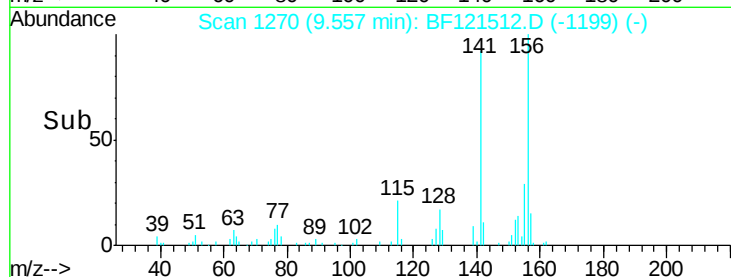
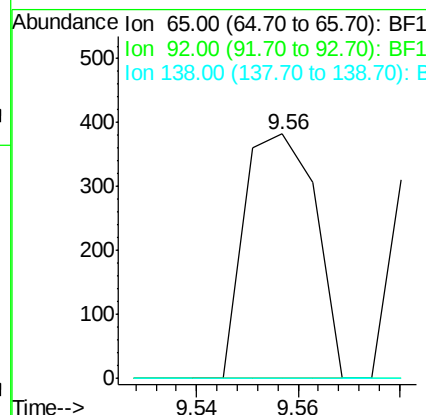
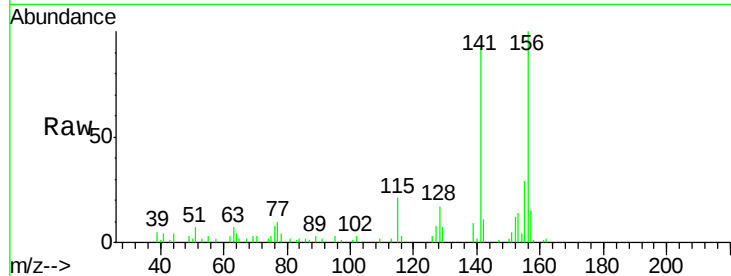




#48
2-Nitroaniline
Concen: 6.685 ng
RT: 9.56 min Scan# 1270
Delta R.T. 0.12 min
Lab File: BF121512.D
Acq: 1 Sep 2020 23:17

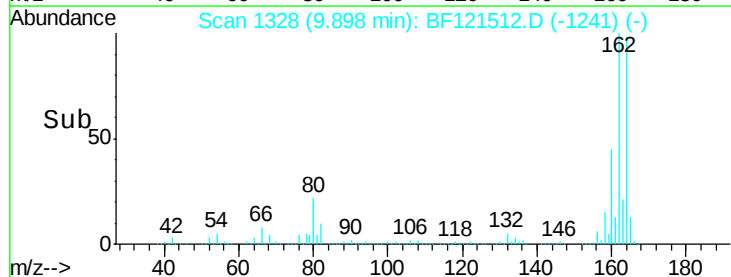
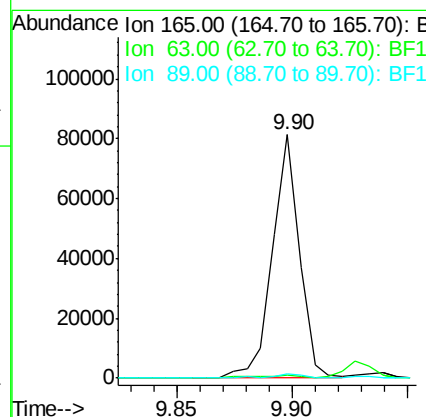
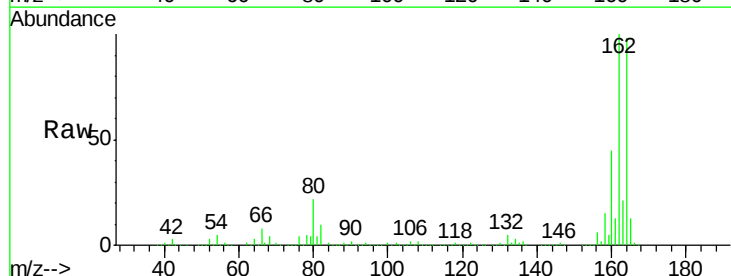
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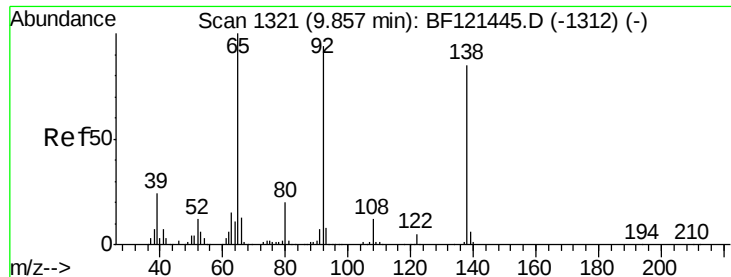
Tot Ion: 65 Resp: 370
Ion Ratio Lower Upper
65 100
92 0.0 55.6 83.4#
138 0.0 82.9 124.3#



#51
2,6-Dinitrotoluene
Concen: 15.421 ng
RT: 9.90 min Scan# 1328
Delta R.T. 0.21 min
Lab File: BF121512.D
Acq: 1 Sep 2020 23:17

Tgt Ion:165 Resp: 66214
Ion Ratio Lower Upper
165 100
63 1.2 43.6 65.4#
89 1.5 47.4 71.2#

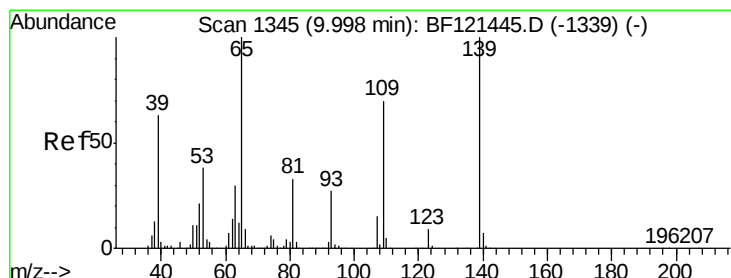
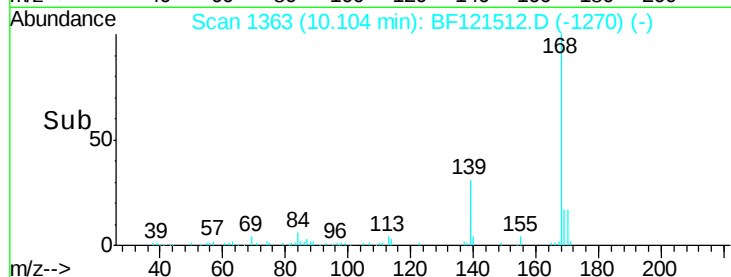
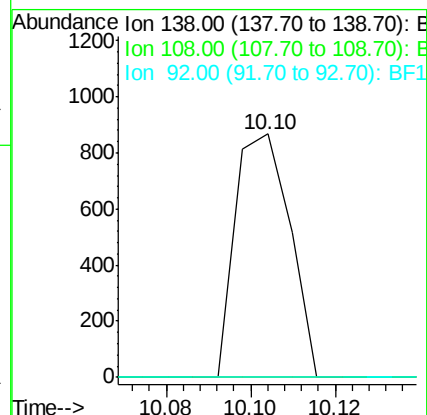
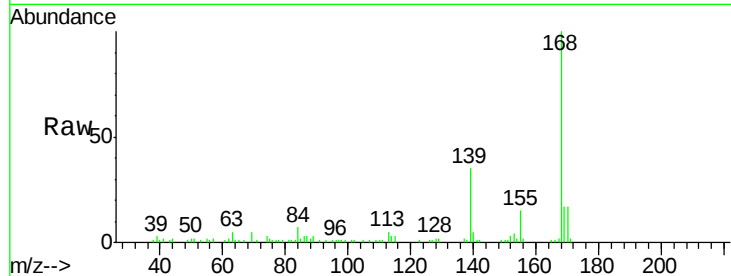




#53
3-Nitroaniline
Concen: 5.537 ng
RT: 10.10 min Scan# 1363
Delta R.T. 0.25 min
Lab File: BF121512.D
Acq: 1 Sep 2020 23:17

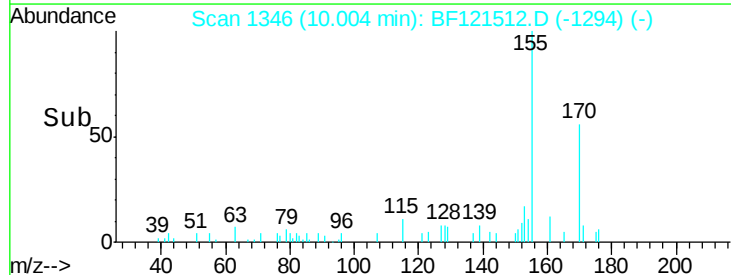
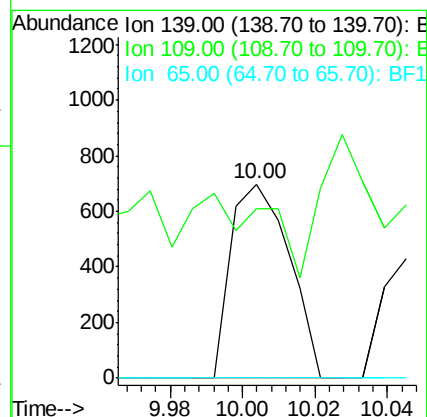
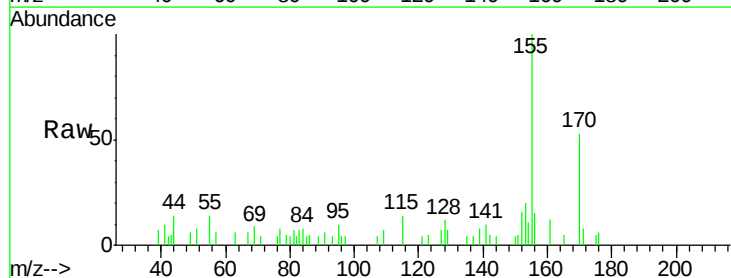
Instrument :
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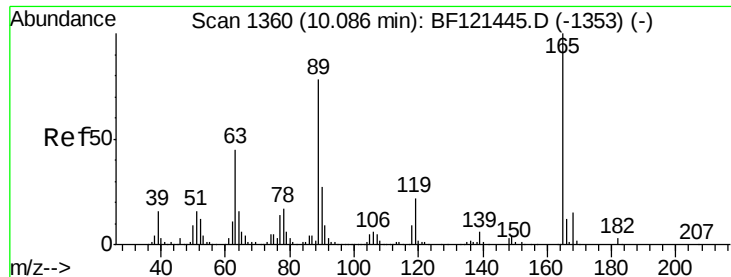
Tot Ion:138 Resp: 777
Ion Ratio Lower Upper
138 100
108 0.0 11.6 17.4#
92 0.0 88.6 132.8#



#56
4-Nitrophenol
Concen: 7.964 ng
RT: 10.00 min Scan# 1346
Delta R.T. 0.01 min
Lab File: BF121512.D
Acq: 1 Sep 2020 23:17

Tgt Ion:139 Resp: 780
Ion Ratio Lower Upper
139 100
109 87.0 50.5 90.5
65 0.0 80.2 120.2#

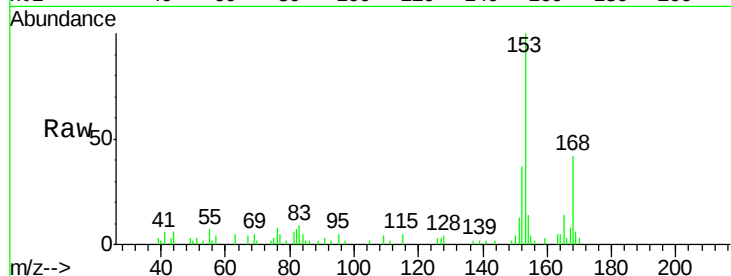




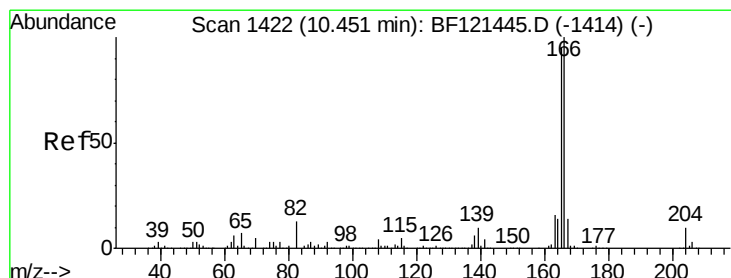
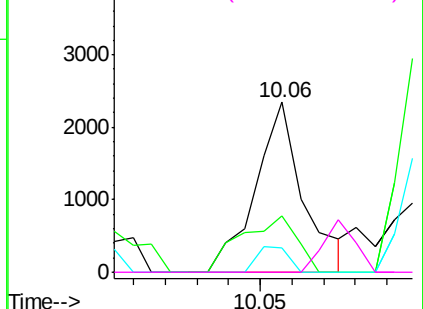
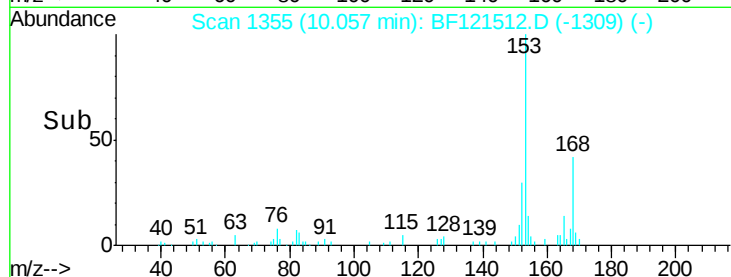
#57
2,4-Dinitrotoluene
Concen: 7.542 ng
RT: 10.06 min Scan# 1355
Delta R.T. -0.03 min
Lab File: BF121512.D
Acq: 1 Sep 2020 23:17

Instrument :
BNA_F
ClientSampleId :
LINDEN-JOP-BH-09-BDL

Tot Ion:165 Resp: 2463
Ion Ratio Lower Upper
165 100
63 33.5 36.0 54.0#
89 14.6 62.6 93.8#
182 0.0 2.2 3.2#

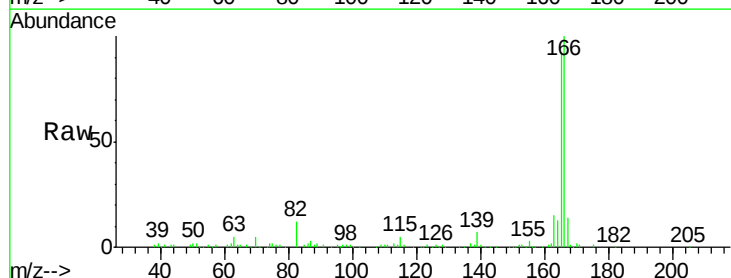


Abundance Ion 165.00 (164.70 to 165.70): E
Ion 63.00 (62.70 to 63.70): BF1
Ion 89.00 (88.70 to 89.70): BF1
Ion 182.00 (181.70 to 182.70): E

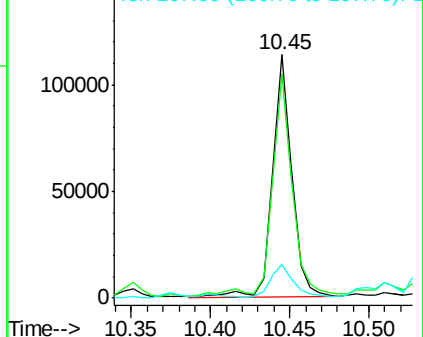
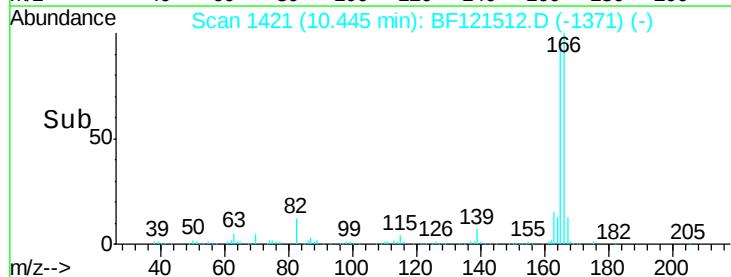


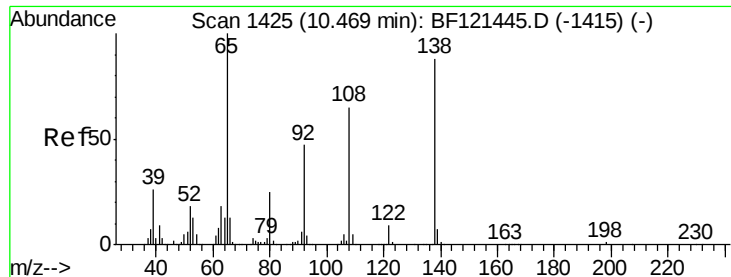
#58
Fluorene
Concen: 3.075 ng
RT: 10.45 min Scan# 1421
Delta R.T. -0.01 min
Lab File: BF121512.D
Acq: 1 Sep 2020 23:17

Tgt Ion:166 Resp: 97897
Ion Ratio Lower Upper
166 100
165 92.2 75.7 113.5
167 14.0 11.1 16.7



Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E





#62

4-Nitroaniline

Concen: 4.629 ng

RT: 10.45 min Scan# 1421

Delta R.T. -0.02 min

Lab File: BF121512.D

Acq: 1 Sep 2020 23:17

Instrument :

BNA_F

ClientSampleId :

LINDEN-JOP-BH-09-BDL

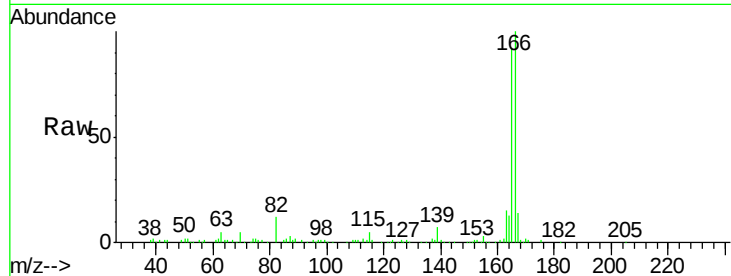
Tot Ion:138 Resp: 861

Ion Ratio Lower Upper

138 100

92 0.0 33.2 73.2#

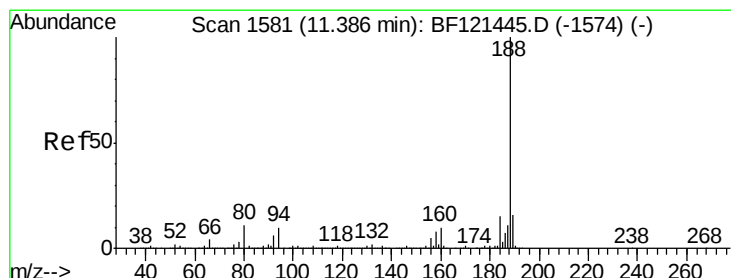
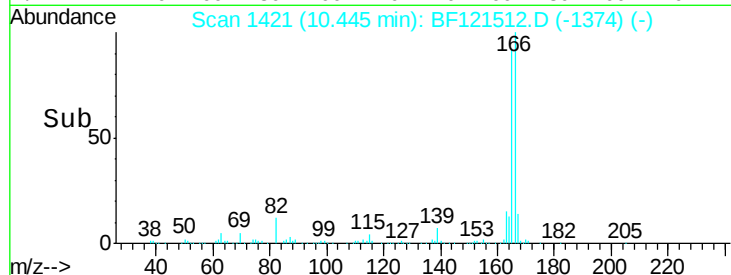
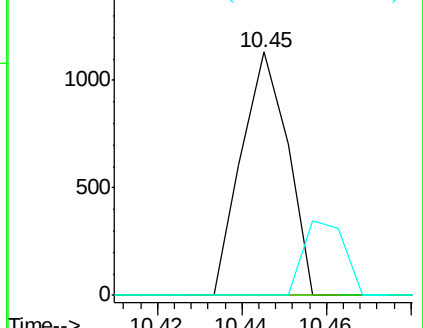
108 0.0 53.6 93.6#



Abundance Ion 138.00 (137.70 to 138.70): E

Ion 92.00 (91.70 to 92.70): BF1

Ion 108.00 (107.70 to 108.70): E



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.39 min Scan# 1581

Delta R.T. -0.00 min

Lab File: BF121512.D

Acq: 1 Sep 2020 23:17

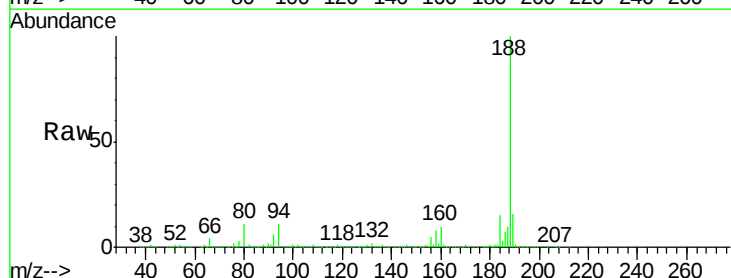
Tgt Ion:188 Resp: 840977

Ion Ratio Lower Upper

188 100

94 10.5 8.3 12.5

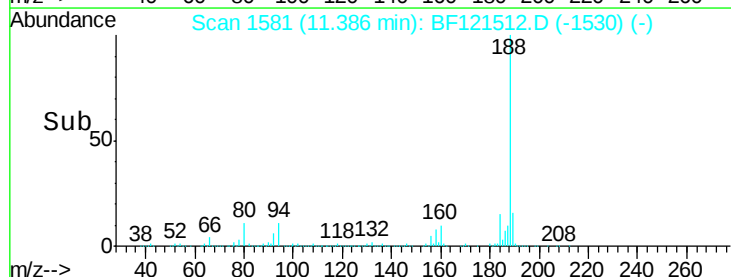
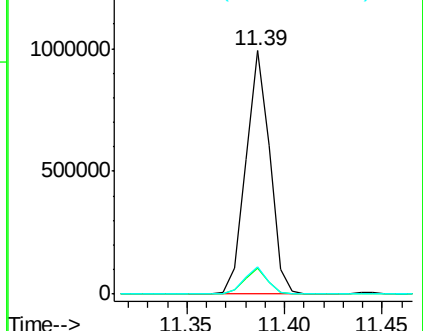
80 11.2 8.6 13.0

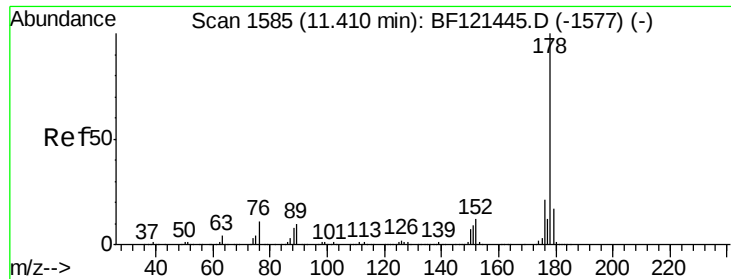


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1

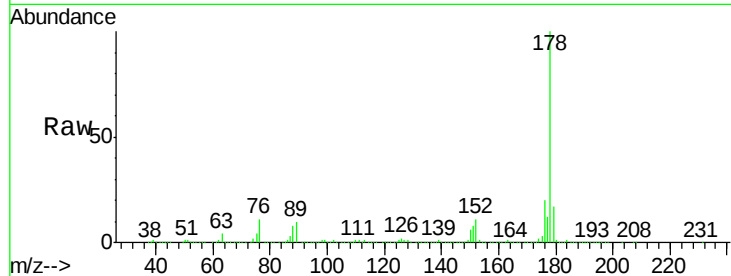




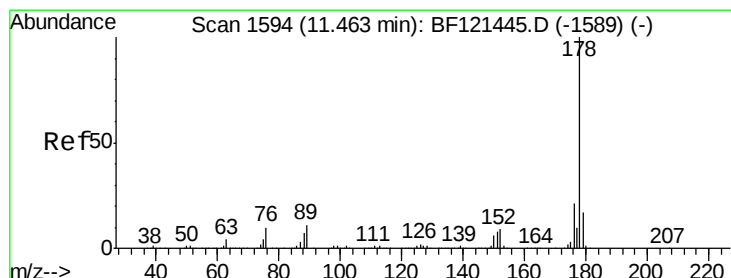
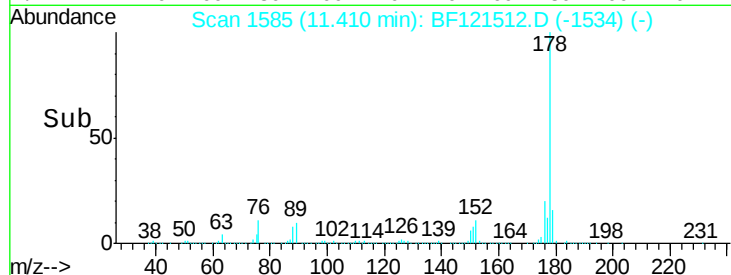
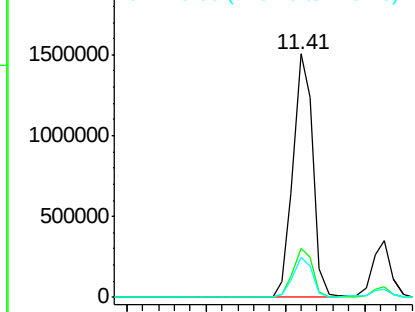
#71
Phenanthrene
Concen: 30.198 ng
RT: 11.41 min Scan# 1585
Delta R.T. -0.00 min
Lab File: BF121512.D
Acq: 1 Sep 2020 23:17

Instrument :
BNA_F
ClientSampleId :
LINDEN-JOP-BH-09-BDL

Tot Ion:178 Resp: 1303261
Ion Ratio Lower Upper
178 100
176 20.4 16.9 25.3
179 16.5 13.4 20.0

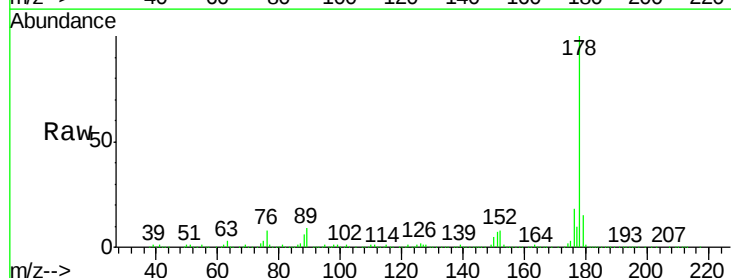


Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

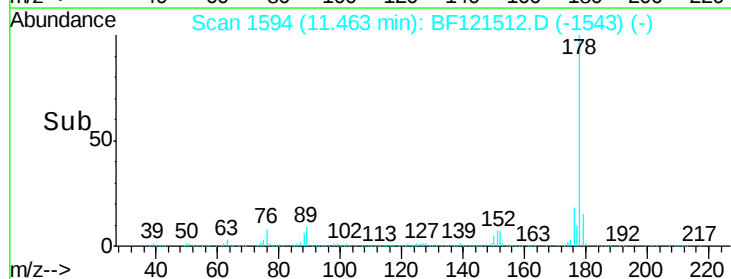
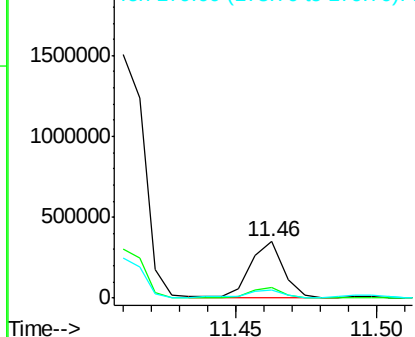


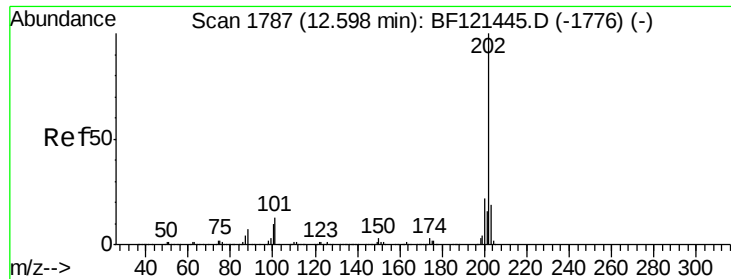
#72
Anthracene
Concen: 6.616 ng
RT: 11.46 min Scan# 1594
Delta R.T. -0.00 min
Lab File: BF121512.D
Acq: 1 Sep 2020 23:17

Tgt Ion:178 Resp: 280826
Ion Ratio Lower Upper
178 100
176 18.1 16.7 25.1
179 15.3 13.4 20.2



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





#75

Fluoranthene

Concen: 33.589 ng

RT: 12.60 min Scan# 1788

Delta R.T. 0.01 min

Lab File: BF121512.D

Acq: 1 Sep 2020 23:17

Instrument :

BNA_F

ClientSampleId :

LINDEN-JOP-BH-09-BDL

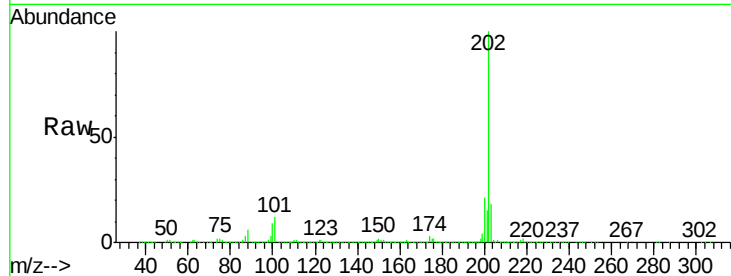
Tot Ion:202 Resp: 1562321

Ion Ratio Lower Upper

202 100

101 12.3 0.0 33.3

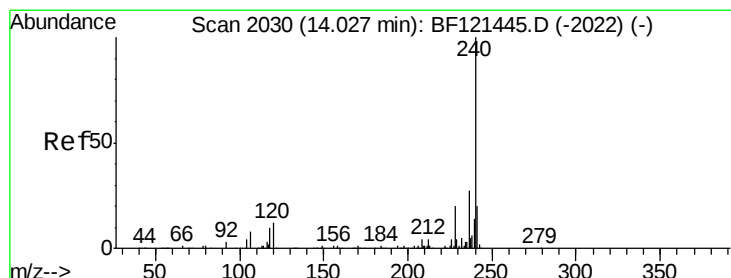
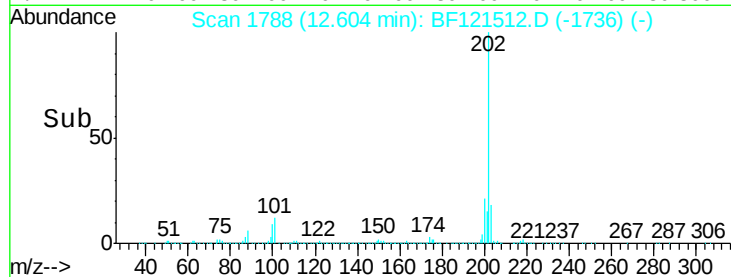
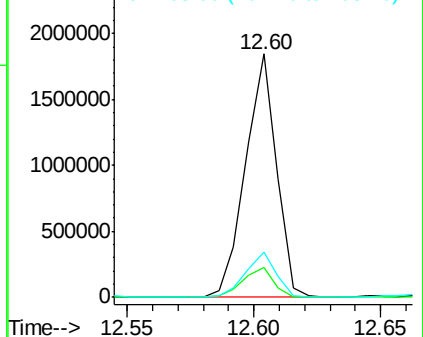
203 18.5 0.0 39.1



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.03 min Scan# 2031

Delta R.T. 0.01 min

Lab File: BF121512.D

Acq: 1 Sep 2020 23:17

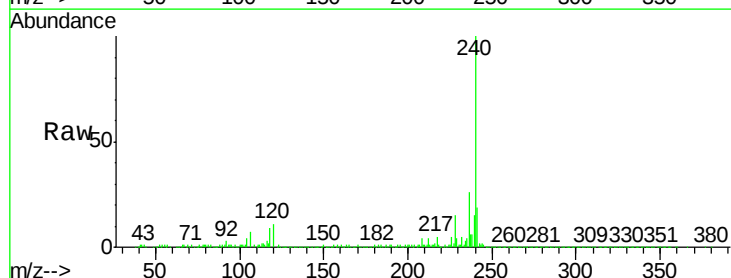
Tgt Ion:240 Resp: 637344

Ion Ratio Lower Upper

240 100

120 10.7 9.5 14.3

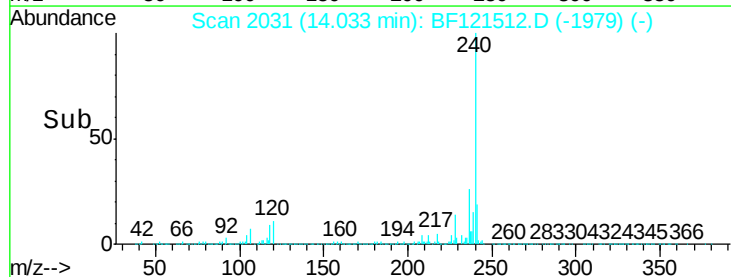
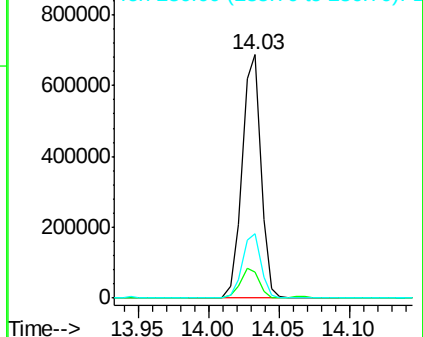
236 26.2 21.8 32.6

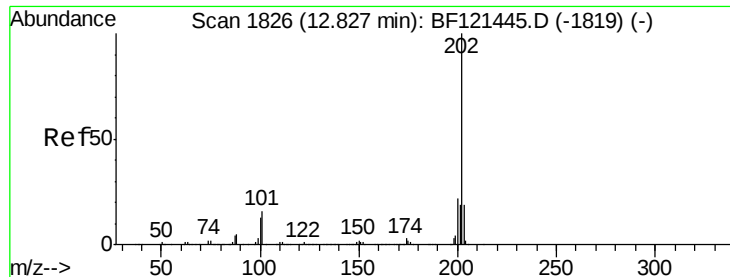


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

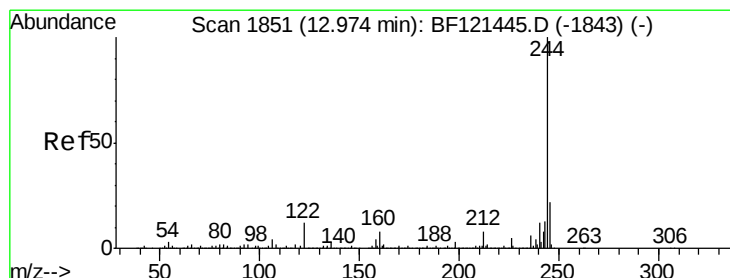
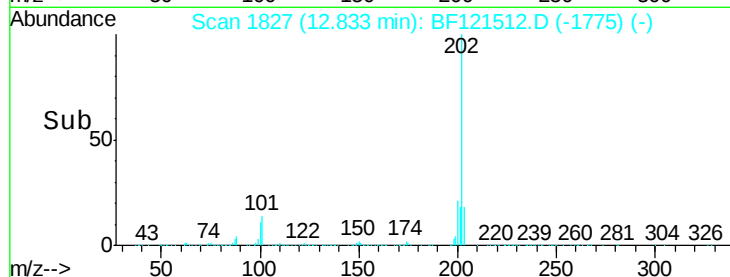
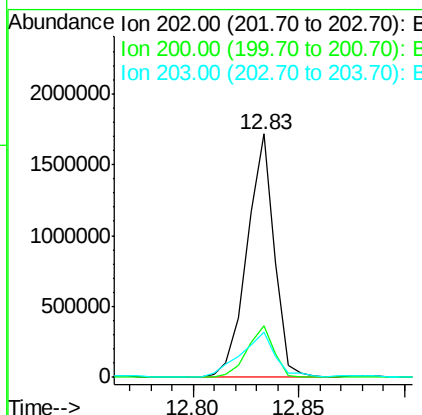
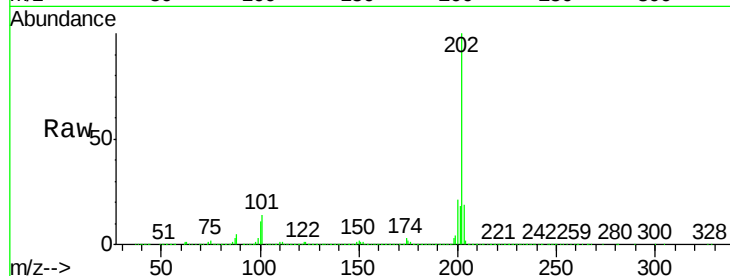




#78
Pvrene
Concen: 33.712 ng
RT: 12.83 min Scan# 1827
Delta R.T. 0.01 min
Lab File: BF121512.D
Acq: 1 Sep 2020 23:17

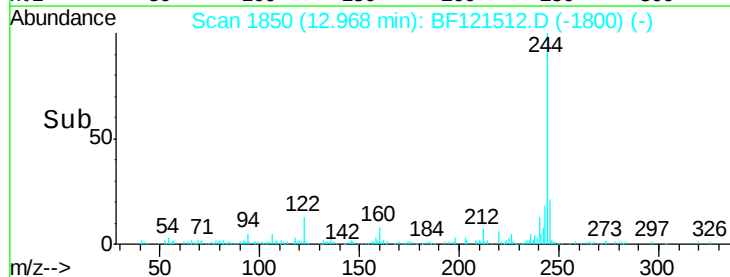
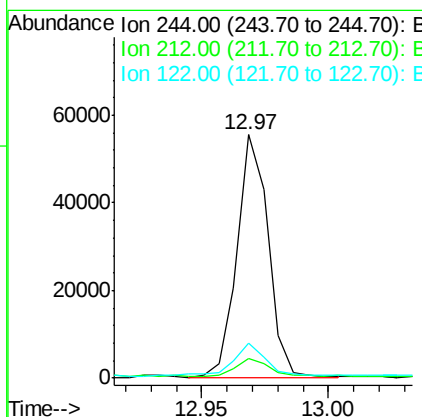
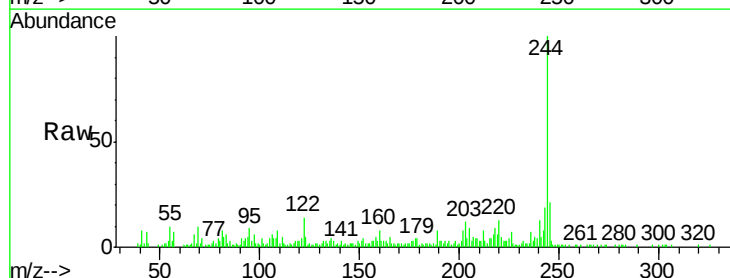
Instrument :
BNA_F
ClientSampleId :
LINDEN-JOP-BH-09-BDL

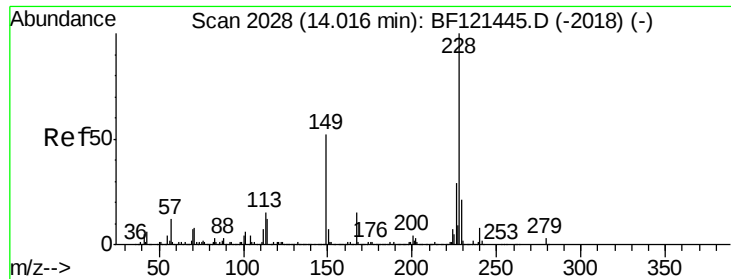
Tot Ion:202 Resp: 1534513
Ion Ratio Lower Upper
202 100
200 21.4 18.0 27.0
203 18.6 15.3 22.9



#79
Terphenyl-d14
Concen: 1.575 ng
RT: 12.97 min Scan# 1850
Delta R.T. -0.01 min
Lab File: BF121512.D
Acq: 1 Sep 2020 23:17

Tgt Ion:244 Resp: 47674
Ion Ratio Lower Upper
244 100
212 8.1 6.3 9.5
122 14.2 9.5 14.3

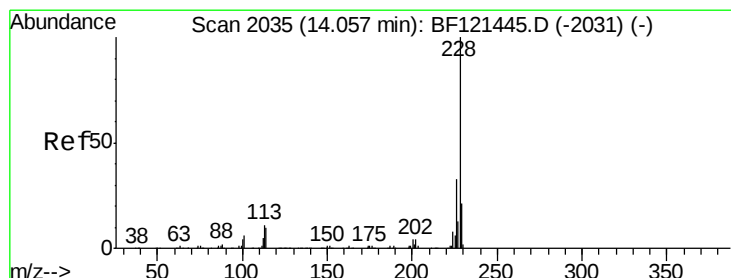
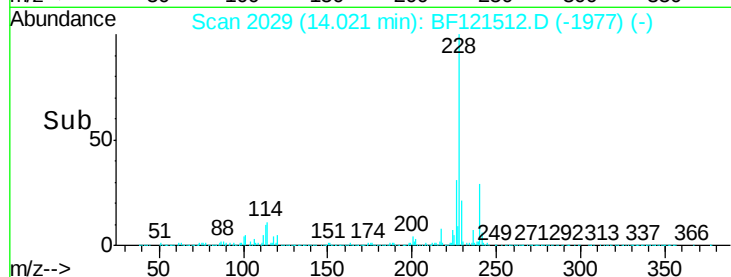
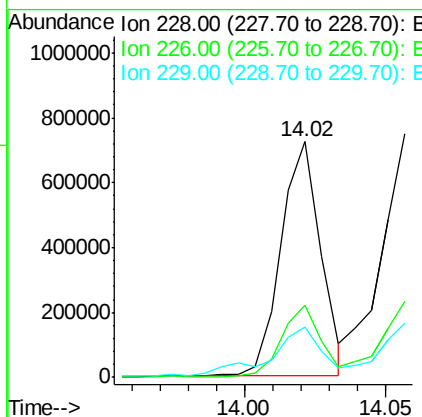
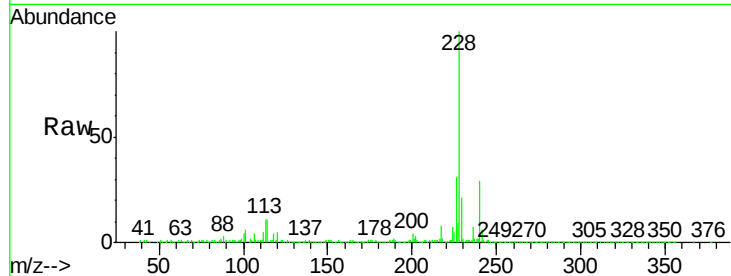




#81
Benzo(a)anthracene
Concen: 18.118 ng
RT: 14.02 min Scan# 2029
Delta R.T. 0.01 min
Lab File: BF121512.D
Acq: 1 Sep 2020 23:17

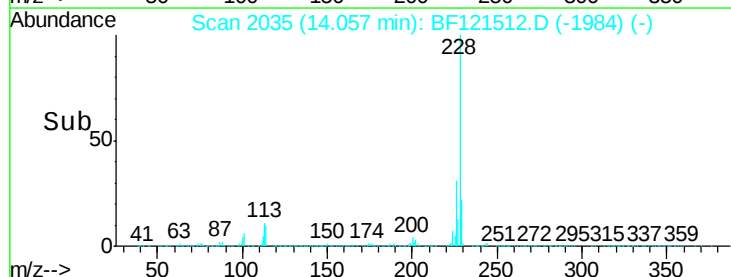
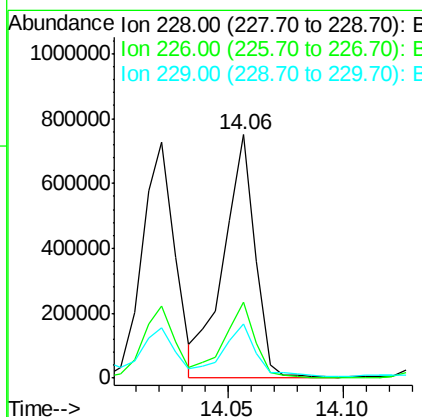
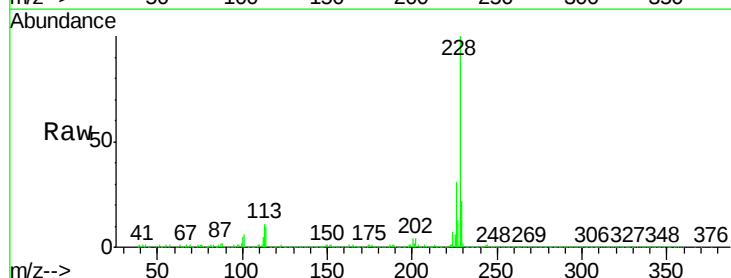
Instrument :
BNA_F
ClientSampleId :
LINDEN-JOP-BH-09-BDL

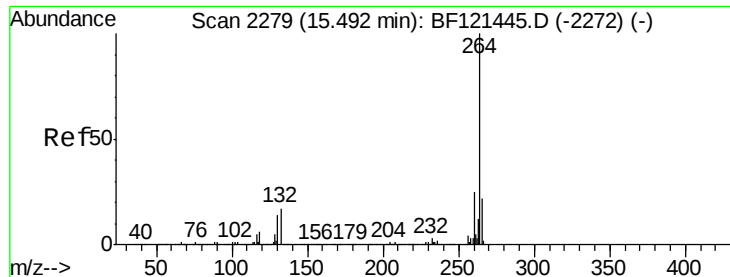
Tot Ion:228 Resp: 704892
Ion Ratio Lower Upper
228 100
226 30.7 23.0 34.4
229 21.4 16.6 24.8



#83
Chrysene
Concen: 18.066 ng
RT: 14.06 min Scan# 2035
Delta R.T. -0.00 min
Lab File: BF121512.D
Acq: 1 Sep 2020 23:17

Tgt Ion:228 Resp: 703193
Ion Ratio Lower Upper
228 100
226 31.3 26.2 39.2
229 22.4 16.6 25.0

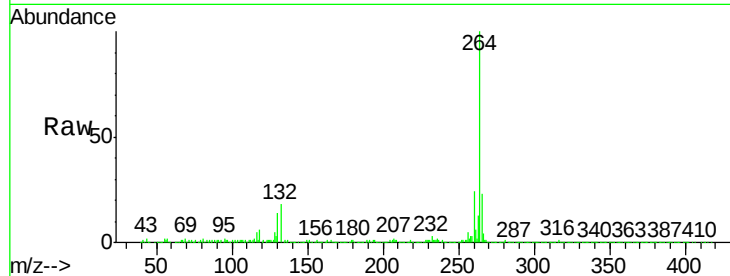




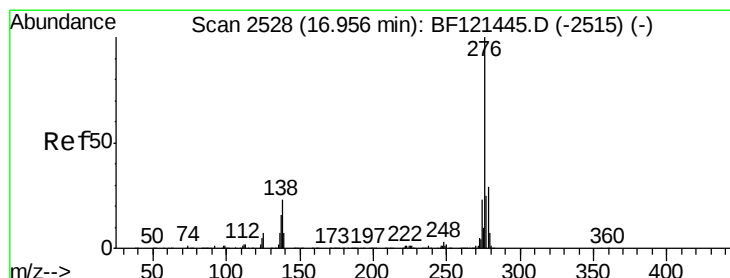
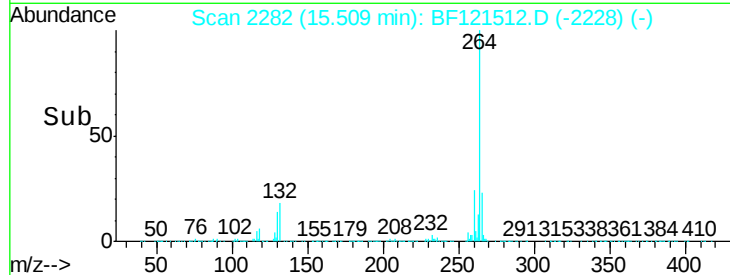
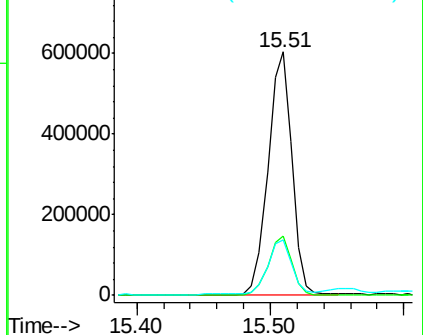
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.51 min Scan# 2282
Delta R.T. 0.02 min
Lab File: BF121512.D
Acq: 1 Sep 2020 23:17

Instrument :
BNA_F
ClientSampleId :
LINDEN-JOP-BH-09-BDL

Tot	Ion:264	Resp:	752091
Ion	Ratio	Lower	Upper
264	100		
260	24.2	19.6	29.4
265	23.0	17.8	26.6

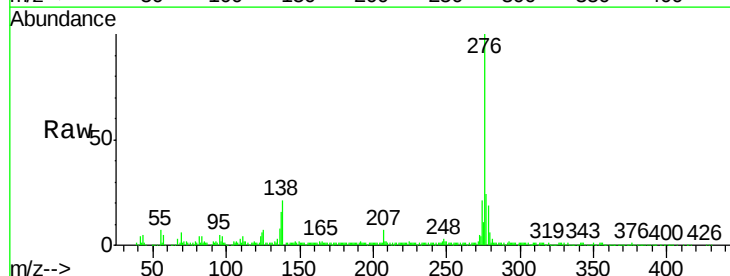


Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

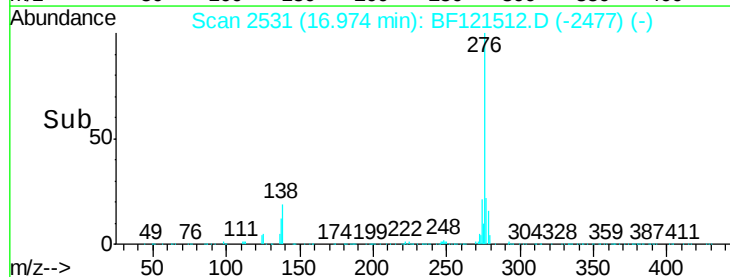
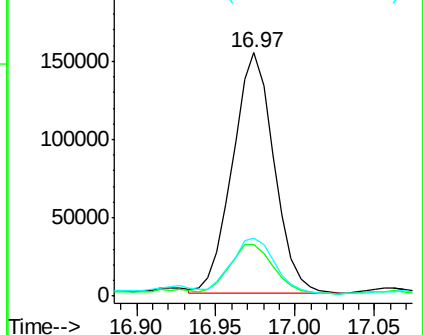


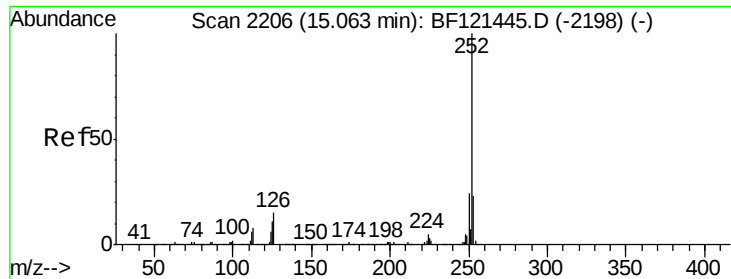
#87
Indeno(1,2,3-cd)pyrene
Concen: 6.039 ng
RT: 16.97 min Scan# 2531
Delta R.T. 0.02 min
Lab File: BF121512.D
Acq: 1 Sep 2020 23:17

Tgt	Ion:276	Resp:	279452
Ion	Ratio	Lower	Upper
276	100		
138	21.9	20.6	31.0
277	24.5	20.5	30.7



Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E

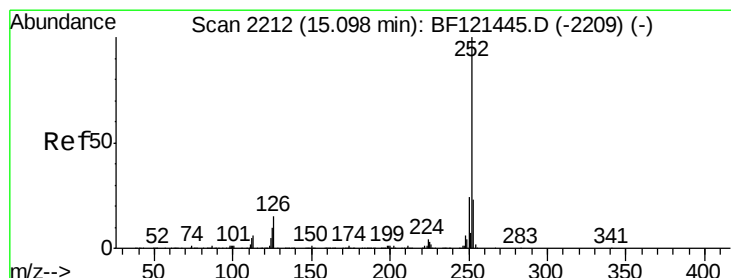
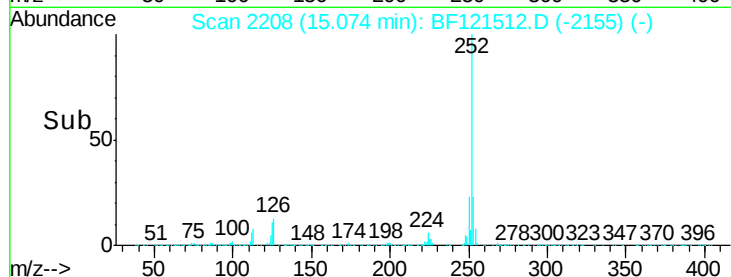
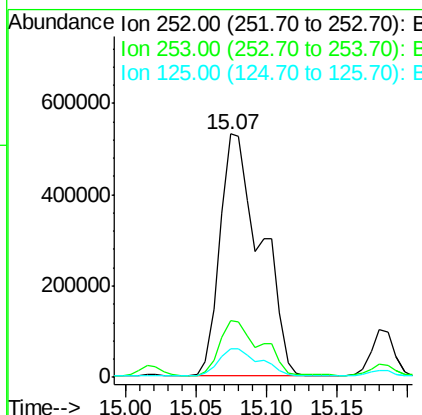
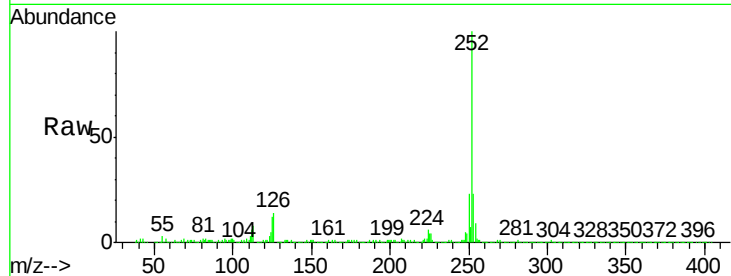




#88
Benzo(b)fluoranthene
Concen: 21.954 ng
RT: 15.07 min Scan# 2208
Delta R.T. 0.01 min
Lab File: BF121512.D
Acq: 1 Sep 2020 23:17

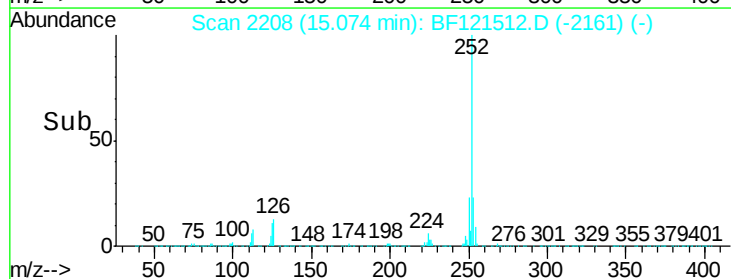
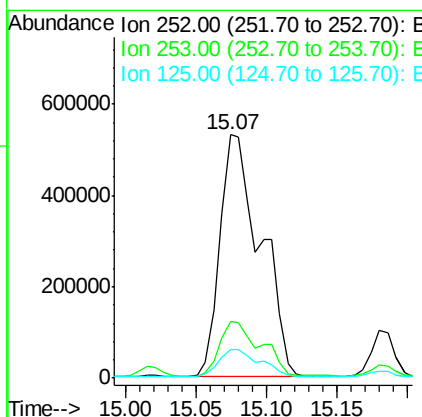
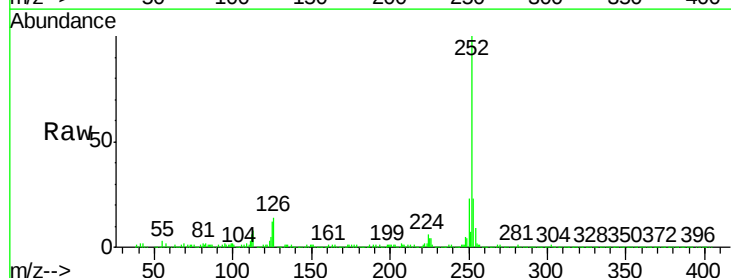
Instrument :
BNA_F
ClientSampleId :
LINDEN-JOP-BH-09-BDL

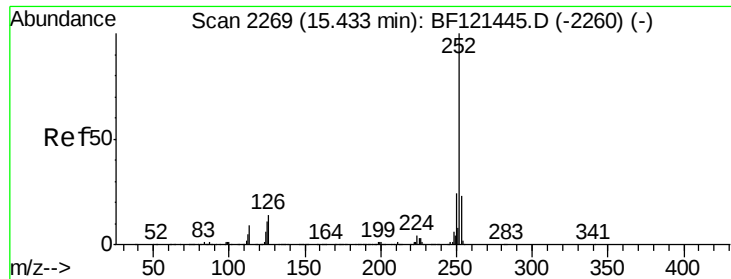
Tot Ion:252 Resp: 1074044
Ion Ratio Lower Upper
252 100
253 23.4 18.3 27.5
125 11.6 9.2 13.8



#89
Benzo(k)fluoranthene
Concen: 23.603 ng
RT: 15.07 min Scan# 2208
Delta R.T. -0.02 min
Lab File: BF121512.D
Acq: 1 Sep 2020 23:17

Tgt Ion:252 Resp: 1074044
Ion Ratio Lower Upper
252 100
253 23.4 18.3 27.5
125 11.6 8.5 12.7

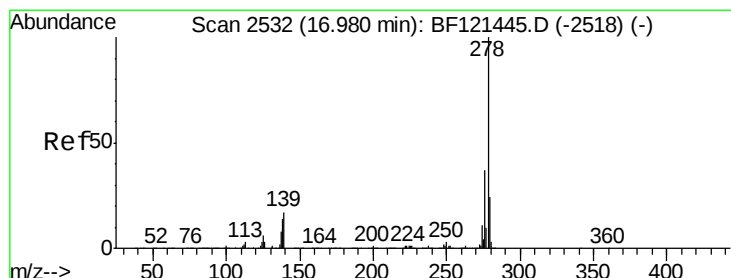
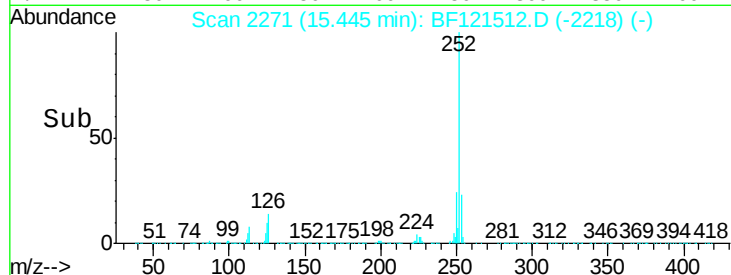
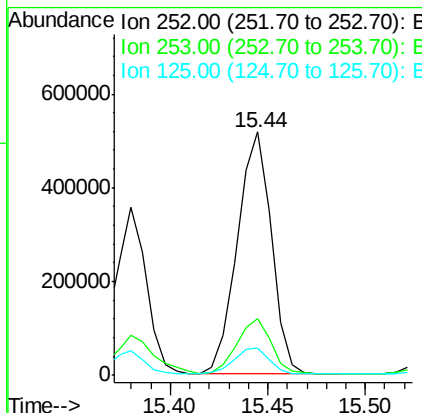
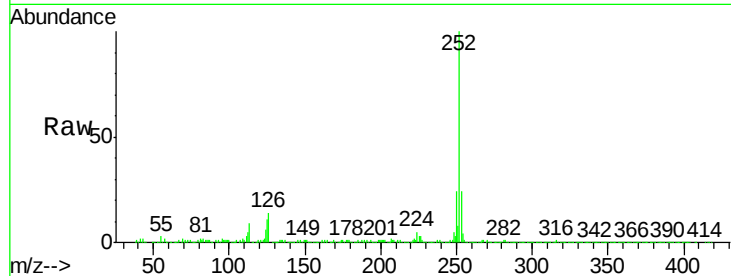




#90
Benzo(a)pyrene
Concen: 14.244 ng
RT: 15.44 min Scan# 2271
Delta R.T. 0.01 min
Lab File: BF121512.D
Acq: 1 Sep 2020 23:17

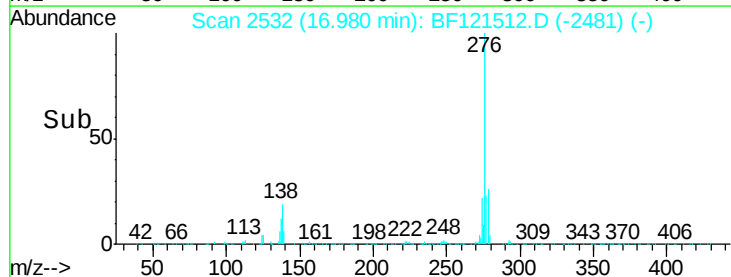
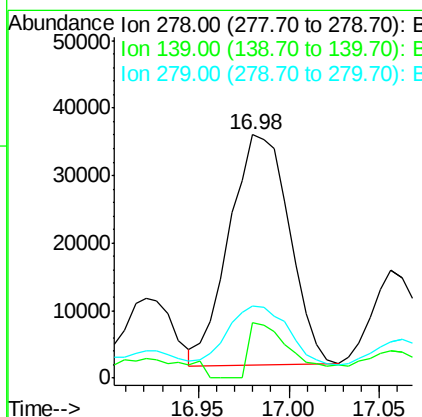
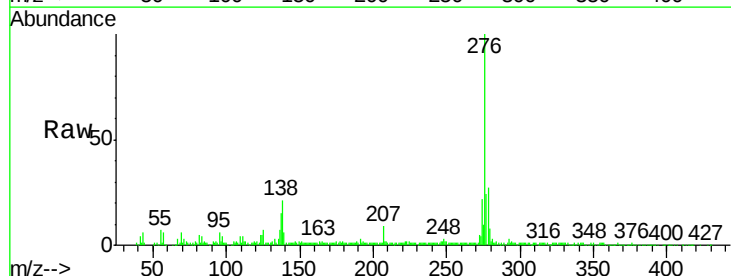
Instrument :
BNA_F
ClientSampleId :
LINDEN-JOP-BH-09-BDL

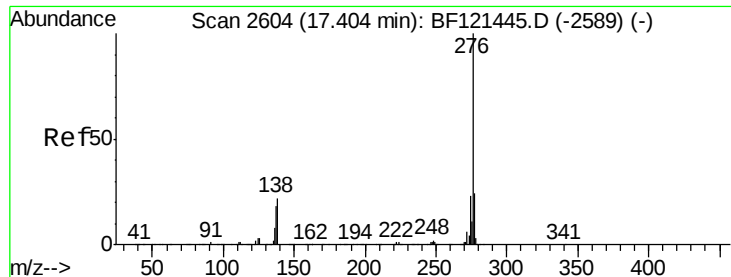
Tot Ion:252 Resp: 626643
Ion Ratio Lower Upper
252 100
253 23.5 18.0 27.0
125 11.1 9.0 13.4



#91
Dibenzo(a,h)anthracene
Concen: 2.069 ng
RT: 16.98 min Scan# 2532
Delta R.T. -0.00 min
Lab File: BF121512.D
Acq: 1 Sep 2020 23:17

Tgt Ion:278 Resp: 78374
Ion Ratio Lower Upper
278 100
139 22.7 13.3 19.9#
279 29.7 19.4 29.0#

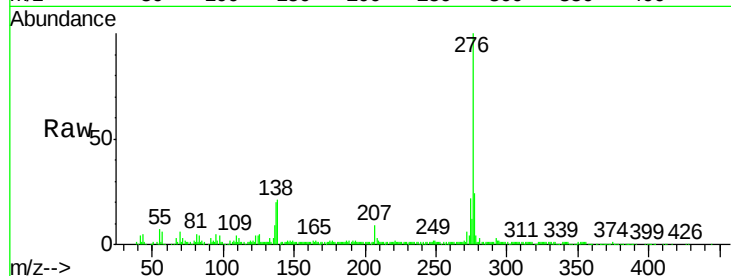




#92
 Benzo(a,h,i)perylene
 Concen: 6.857 ng
 RT: 17.42 min Scan# 2607
 Delta R.T. 0.02 min
 Lab File: BF121512.D
 Acq: 1 Sep 2020 23:17

Instrument :
 BNA_F
 ClientSampleId :
 LINDEN-JOP-BH-09-BDL

Tot Ion	Ratio	Lower	Upper
276	100		
277	24.1	18.9	28.3
138	21.0	17.4	26.0



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

