

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051024\
 Data File : BN031458.D
 Acq On : 10 May 2024 10:04
 Operator : MA/JU
 Sample : P2252-13
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PT-PAH-SOIL

Quant Time: May 10 10:44:51 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN050924.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri May 10 02:12:24 2024
 Response via : Initial Calibration

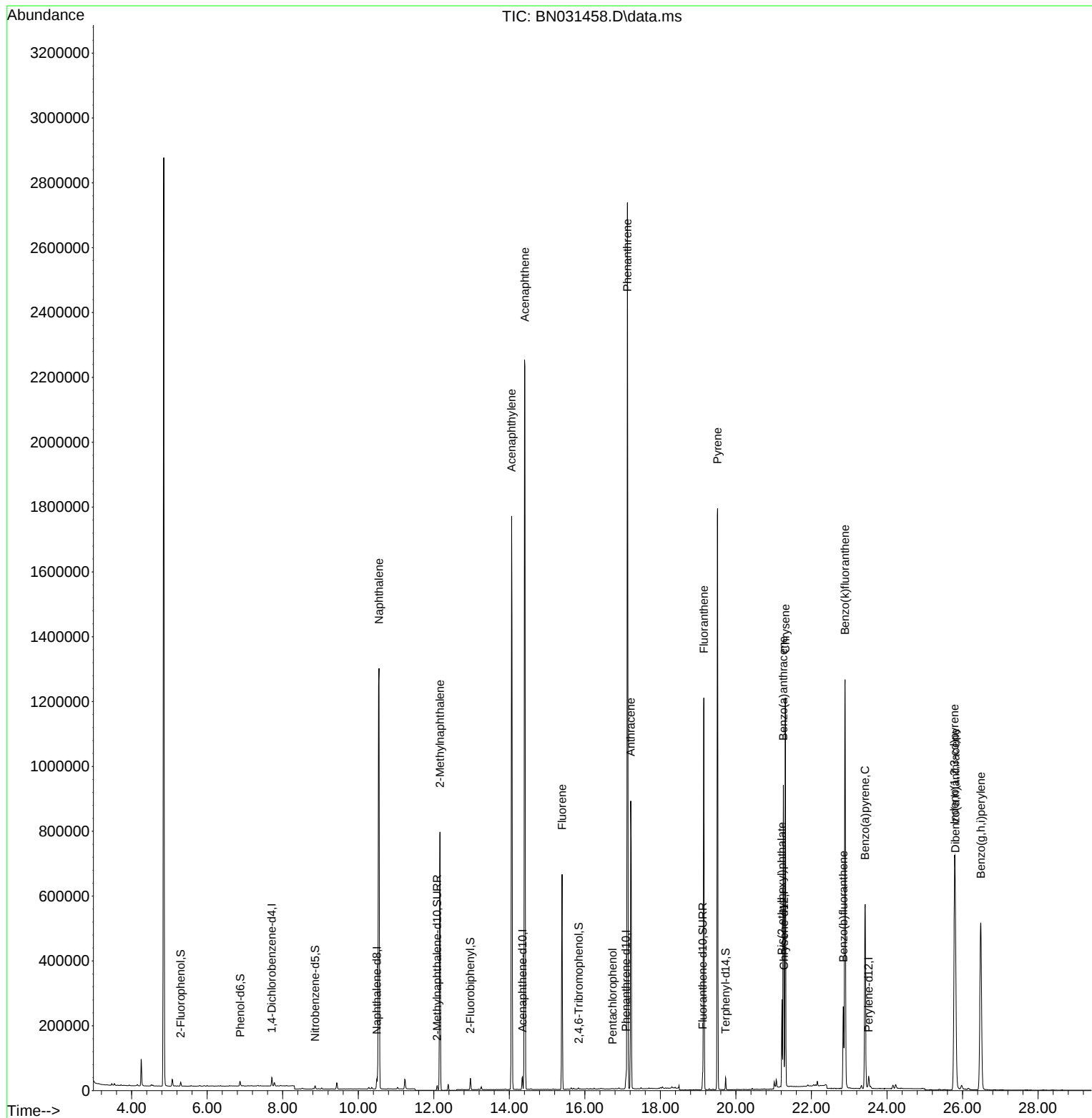
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.711	152	12238	0.400	ng	0.00
7) Naphthalene-d8	10.496	136	40542	0.400	ng	# 0.00
13) Acenaphthene-d10	14.349	164	23274	0.400	ng	0.00
19) Phenanthrene-d10	17.091	188	53728	0.400	ng	0.00
29) Chrysene-d12	21.274	240	48091	0.400	ng	0.00
35) Perylene-d12	23.516	264	48163	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.299	112	9727	0.280	ng	0.00
5) Phenol-d6	6.873	99	14592	0.311	ng	0.00
8) Nitrobenzene-d5	8.862	82	8097	0.278	ng	0.00
11) 2-Methylnaphthalene-d10	12.088	152	19609	0.300	ng	0.00
14) 2,4,6-Tribromophenol	15.837	330	2245	0.254	ng	0.00
15) 2-Fluorobiphenyl	12.970	172	28551	0.318	ng	-0.01
27) Fluoranthene-d10	19.119	212	49464	0.332	ng	0.00
31) Terphenyl-d14	19.727	244	33609	0.286	ng	0.00
Target Compounds						
9) Naphthalene	10.549	128	1809738	16.062	ng	95
12) 2-Methylnaphthalene	12.164	142	569683	7.413	ng	97
16) Acenaphthylene	14.060	152	1961918	16.754	ng	100
17) Acenaphthene	14.413	154	1276868	17.487	ng	100
18) Fluorene	15.397	166	400913	4.197	ng	100
24) Pentachlorophenol	16.731	266	366	0.033	ng	96
25) Phenanthrene	17.128	178	2675173	17.791	ng	100
26) Anthracene	17.215	178	1005522	6.756	ng	100
28) Fluoranthene	19.151	202	1122809	6.146	ng	100
30) Pyrene	19.514	202	1587846	8.155	ng	100
32) Benzo(a)anthracene	21.256	228	785988	4.236	ng	99
33) Chrysene	21.309	228	925944	5.241	ng	99
34) Bis(2-ethylhexyl)phtha...	21.220	149	237680	2.188	ng	99
36) Indeno(1,2,3-cd)pyrene	25.788	276	1141833	5.949	ng	96
37) Benzo(b)fluoranthene	22.844	252	318282	1.841	ng	98
38) Benzo(k)fluoranthene	22.891	252	1578826	9.648	ng	97
39) Benzo(a)pyrene	23.423	252	823309	5.477	ng	96
40) Dibenzo(a,h)anthracene	25.811	278	557120	3.662	ng	97
41) Benzo(g,h,i)perylene	26.484	276	1083308	6.620	ng	98

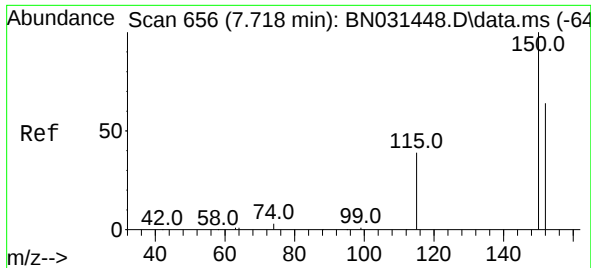
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Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051024\
Data File : BN031458.D
Acq On : 10 May 2024 10:04
Operator : MA/JU
Sample : P2252-13
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOIL

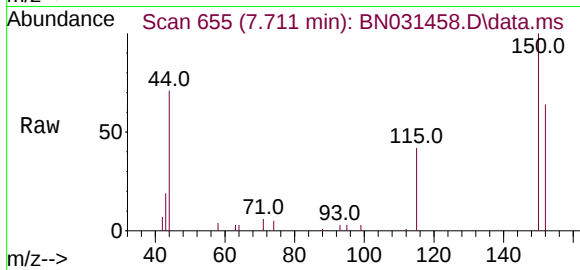
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Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN050924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri May 10 02:12:24 2024
Response via : Initial Calibration



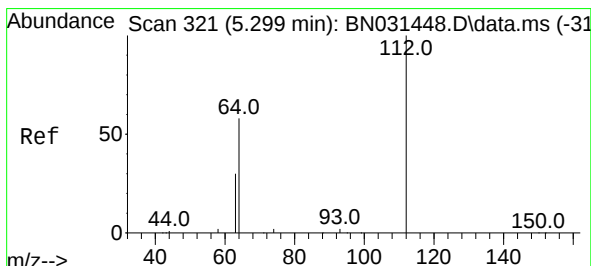
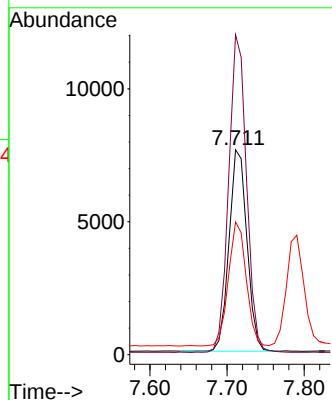
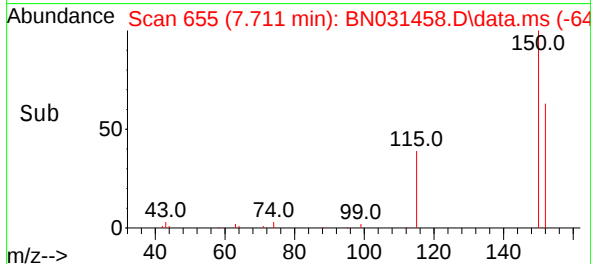


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.711 min Scan# 656
Delta R.T. -0.007 min
Lab File: BN031458.D
Acq: 10 May 2024 10:04

Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOIL

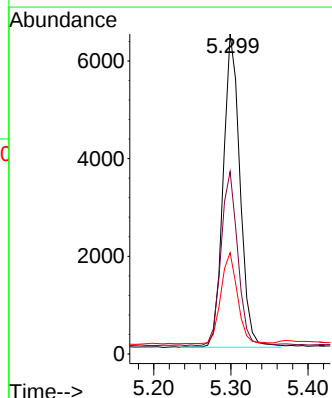
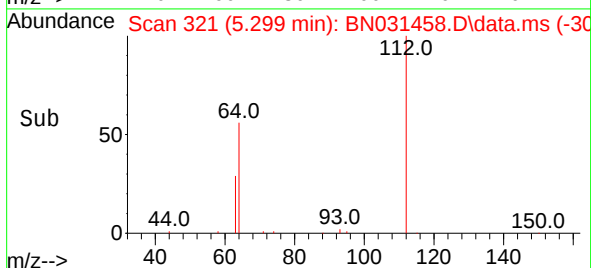
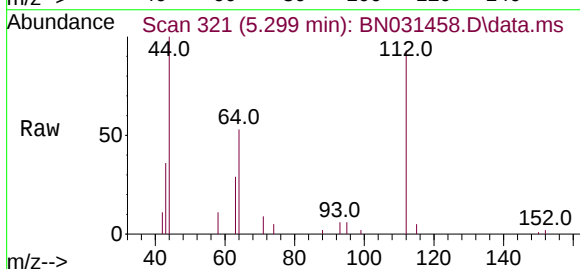


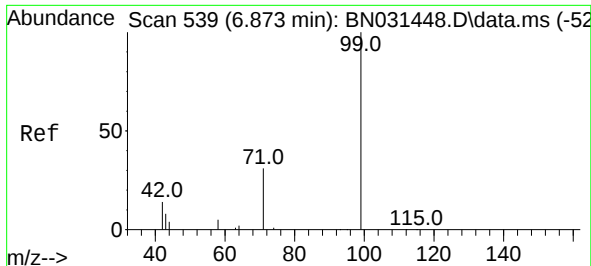
Tgt Ion:152 Resp: 12238
Ion Ratio Lower Upper
152 100
150 156.1 119.3 178.9
115 64.8 54.8 82.2



#4
2-Fluorophenol
Concen: 0.280 ng
RT: 5.299 min Scan# 321
Delta R.T. -0.000 min
Lab File: BN031458.D
Acq: 10 May 2024 10:04

Tgt Ion:112 Resp: 9727
Ion Ratio Lower Upper
112 100
64 55.4 44.0 66.0
63 28.8 22.2 33.4

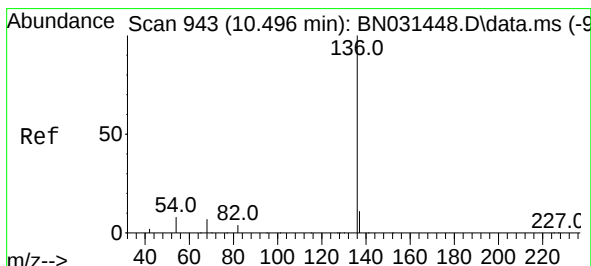
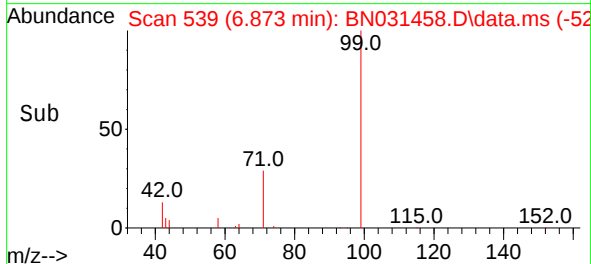
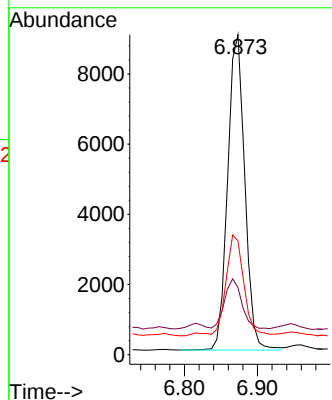
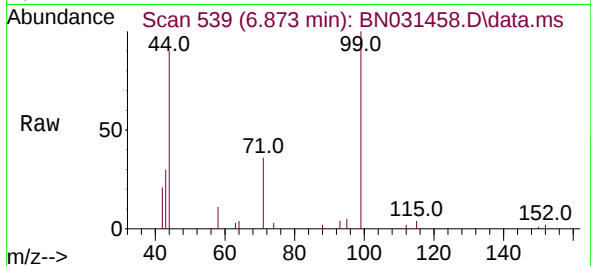




#5
Phenol-d6
Concen: 0.311 ng
RT: 6.873 min Scan# 539
Delta R.T. -0.000 min
Lab File: BN031458.D
Acq: 10 May 2024 10:04

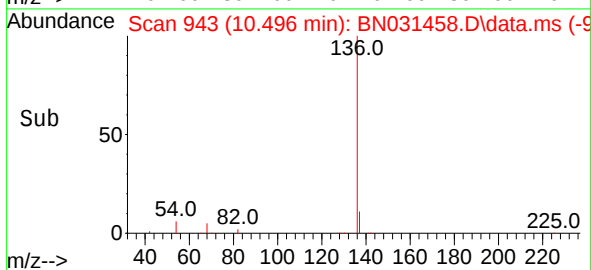
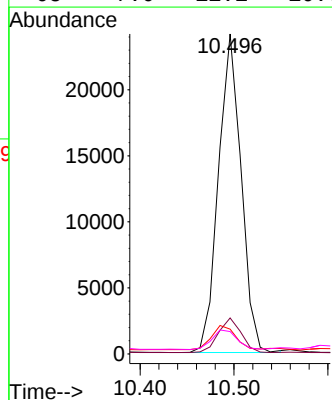
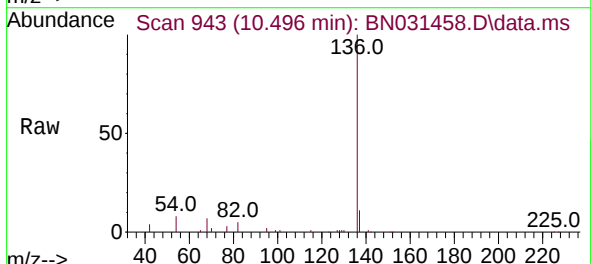
Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOIL

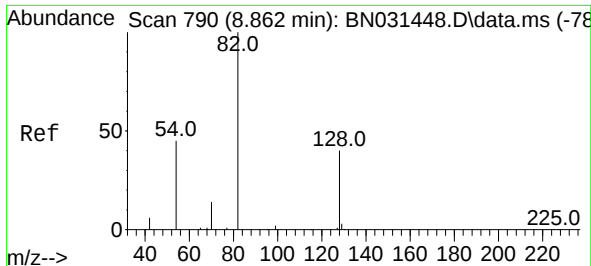
Tgt Ion: 99 Resp: 14592
Ion Ratio Lower Upper
99 100
42 15.6 13.5 20.3
71 31.4 26.1 39.1



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.496 min Scan# 943
Delta R.T. -0.000 min
Lab File: BN031458.D
Acq: 10 May 2024 10:04

Tgt Ion: 136 Resp: 40542
Ion Ratio Lower Upper
136 100
137 11.2 10.1 15.1
54 7.8 10.5 15.7#
68 7.0 11.1 16.7#

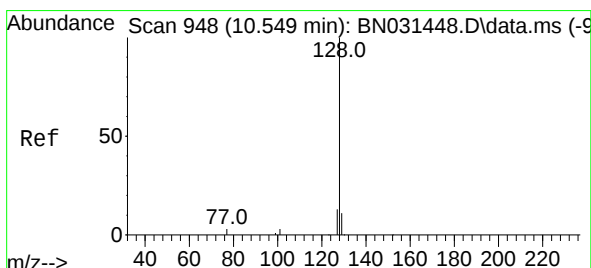
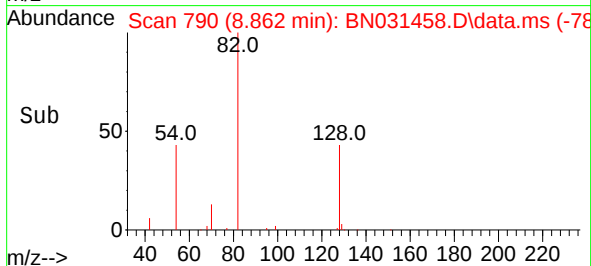
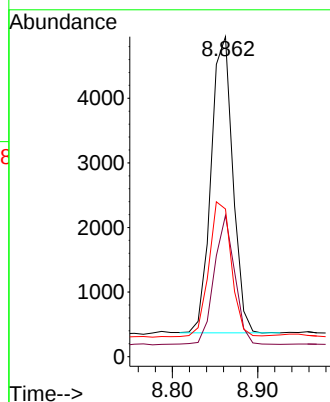
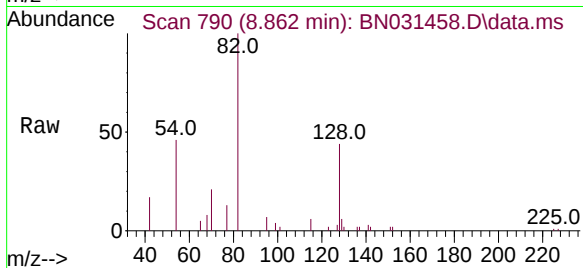




#8
Nitrobenzene-d5
Concen: 0.278 ng
RT: 8.862 min Scan# 790
Delta R.T. -0.000 min
Lab File: BN031458.D
Acq: 10 May 2024 10:04

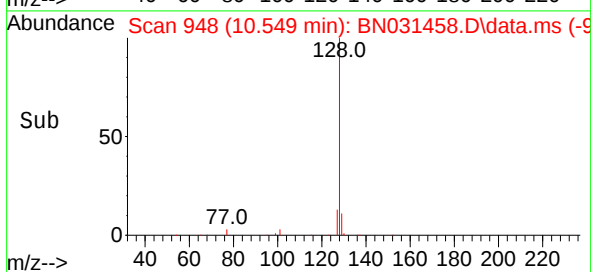
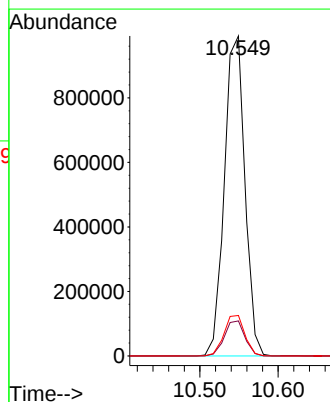
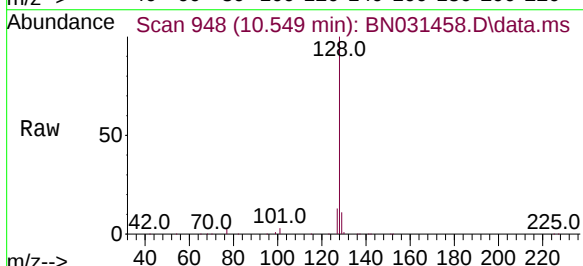
Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOIL

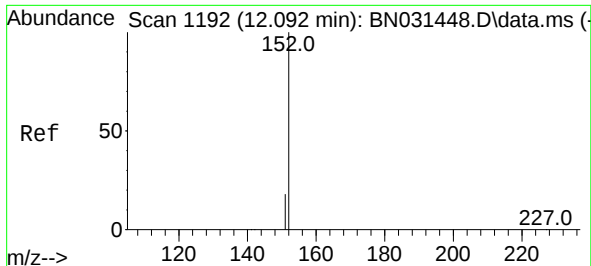
Tgt Ion: 82 Resp: 8097
Ion Ratio Lower Upper
82 100
128 44.2 29.0 43.6#
54 46.1 37.2 55.8



#9
Naphthalene
Concen: 16.062 ng
RT: 10.549 min Scan# 948
Delta R.T. -0.000 min
Lab File: BN031458.D
Acq: 10 May 2024 10:04

Tgt Ion: 128 Resp: 1809738
Ion Ratio Lower Upper
128 100
129 11.0 10.2 15.4
127 12.6 11.7 17.5





#11

2-Methylnaphthalene-d10

Concen: 0.300 ng

RT: 12.088 min Scan# 1191

Delta R.T. -0.004 min

Lab File: BN031458.D

Acq: 10 May 2024 10:04

Instrument :

BNA_N

ClientSampleId :

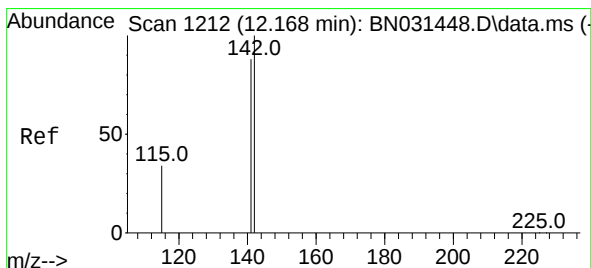
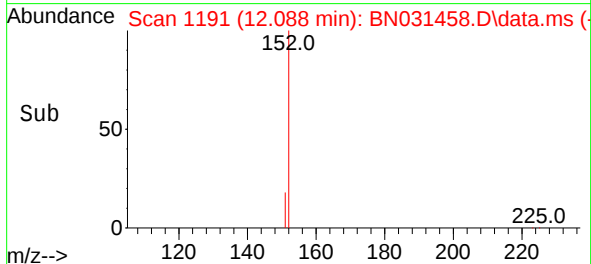
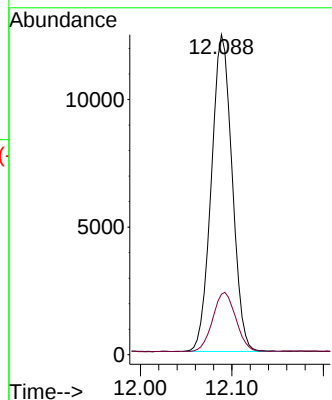
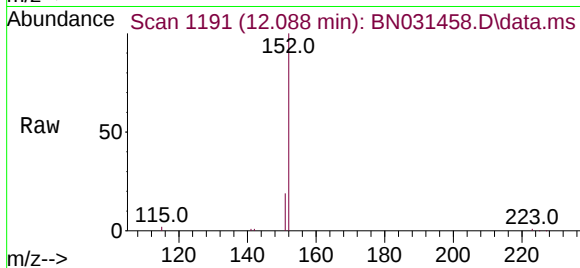
PT-PAH-SOIL

Tgt Ion:152 Resp: 19609

Ion Ratio Lower Upper

152 100

151 20.8 16.6 25.0



#12

2-Methylnaphthalene

Concen: 7.413 ng

RT: 12.164 min Scan# 1211

Delta R.T. -0.004 min

Lab File: BN031458.D

Acq: 10 May 2024 10:04

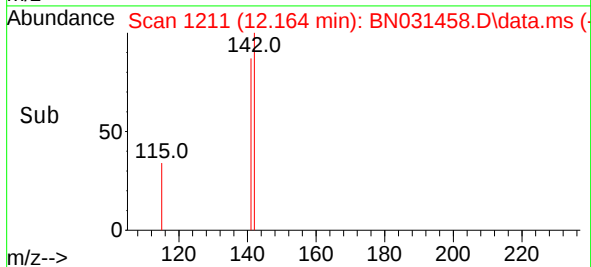
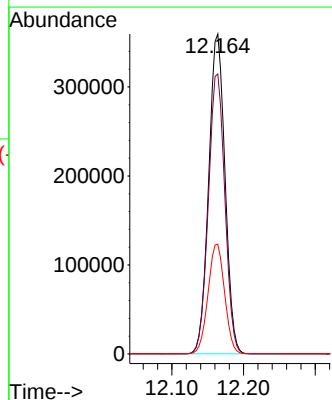
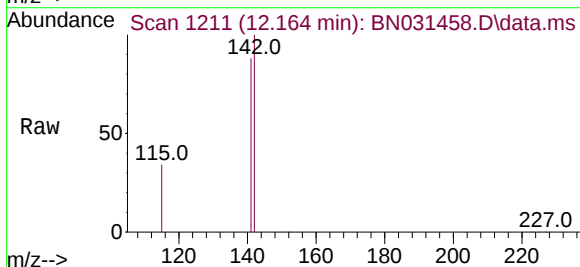
Tgt Ion:142 Resp: 569683

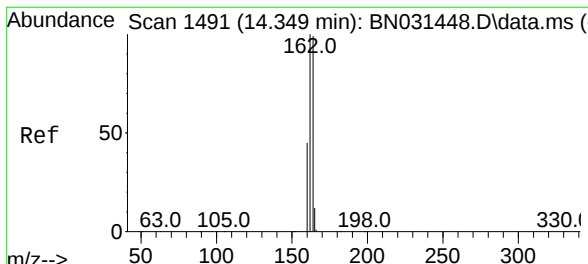
Ion Ratio Lower Upper

142 100

141 87.5 71.0 106.6

115 34.3 30.2 45.2

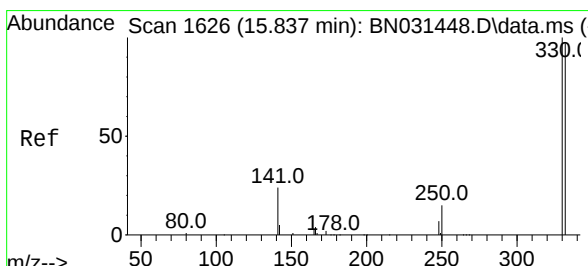
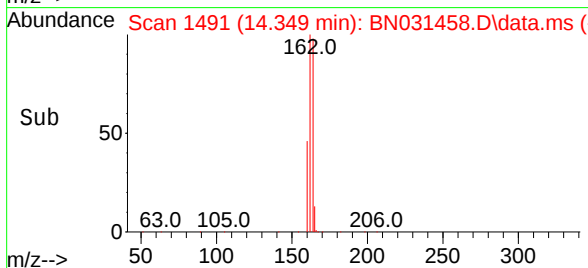
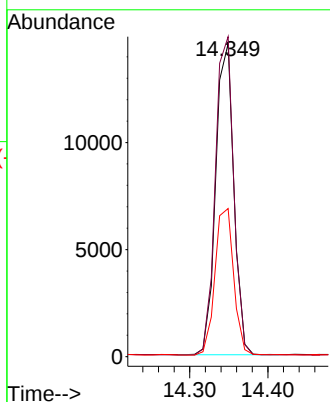
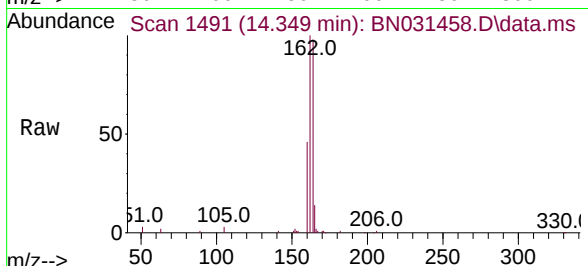




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.349 min Scan# 1491
Delta R.T. -0.000 min
Lab File: BN031458.D
Acq: 10 May 2024 10:04

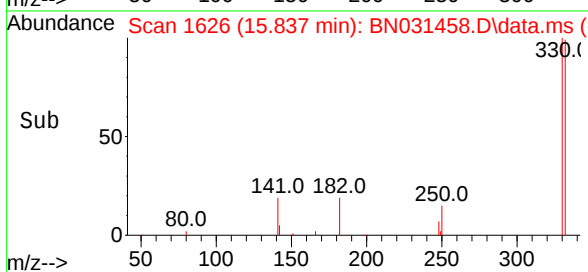
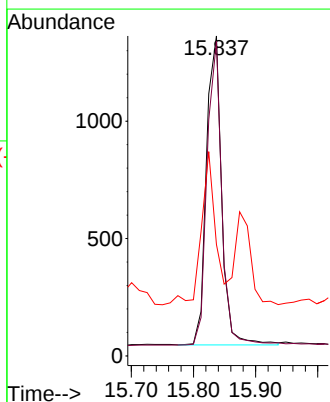
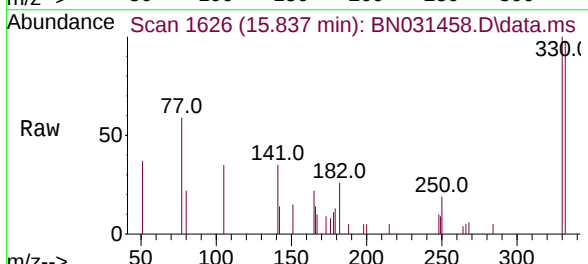
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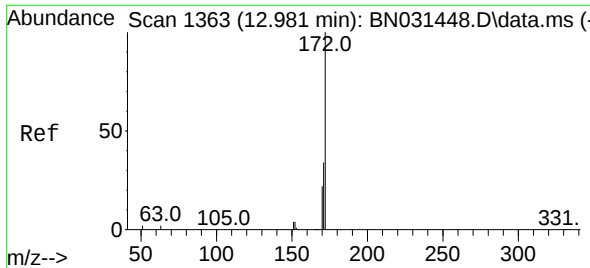
Tgt Ion:164 Resp: 23274
Ion Ratio Lower Upper
164 100
162 102.2 81.2 121.8
160 47.3 37.0 55.6



#14
2,4,6-Tribromophenol
Concen: 0.254 ng
RT: 15.837 min Scan# 1626
Delta R.T. -0.000 min
Lab File: BN031458.D
Acq: 10 May 2024 10:04

Tgt Ion:330 Resp: 2245
Ion Ratio Lower Upper
330 100
332 94.7 76.6 114.8
141 44.5 37.0 55.4

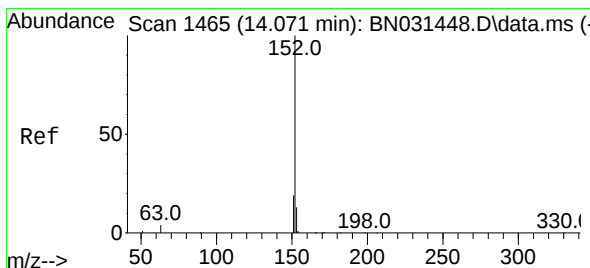
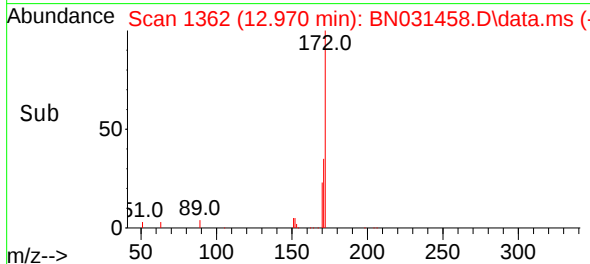
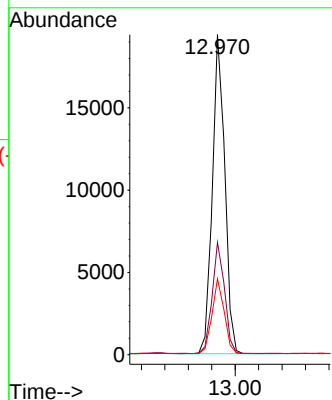
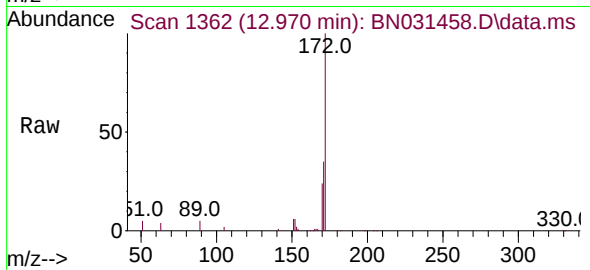




#15
2-Fluorobiphenyl
Concen: 0.318 ng
RT: 12.970 min Scan# 1463
Delta R.T. -0.011 min
Lab File: BN031458.D
Acq: 10 May 2024 10:04

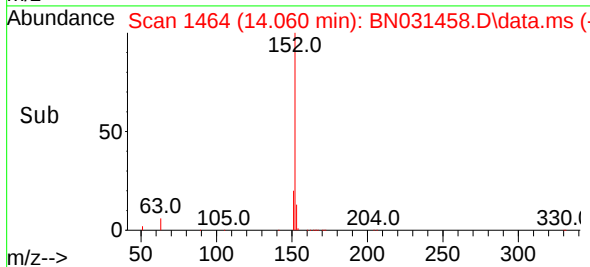
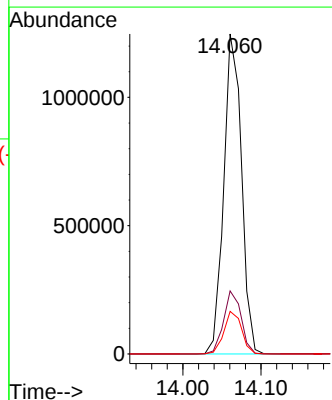
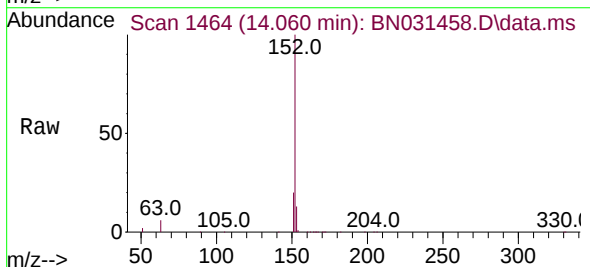
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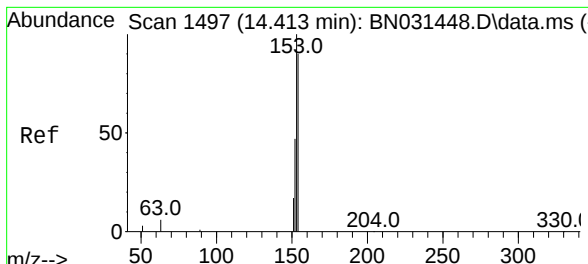
Tgt Ion:172 Resp: 28551
Ion Ratio Lower Upper
172 100
171 35.1 27.8 41.8
170 23.7 18.3 27.5



#16
Acenaphthylene
Concen: 16.754 ng
RT: 14.060 min Scan# 1464
Delta R.T. -0.011 min
Lab File: BN031458.D
Acq: 10 May 2024 10:04

Tgt Ion:152 Resp: 1961918
Ion Ratio Lower Upper
152 100
151 19.5 15.7 23.5
153 13.3 10.5 15.7

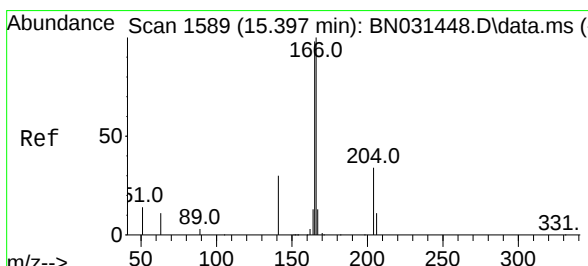
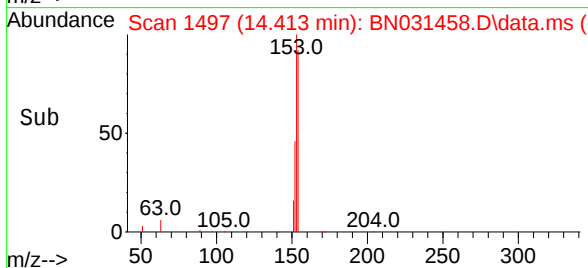
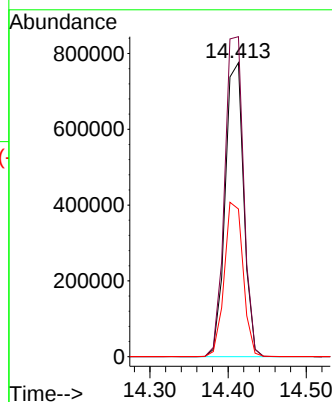
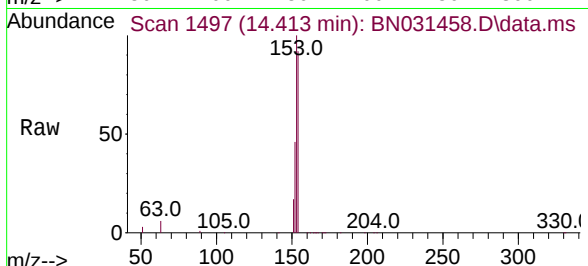




#17
Acenaphthene
Concen: 17.487 ng
RT: 14.413 min Scan# 1497
Delta R.T. -0.000 min
Lab File: BN031458.D
Acq: 10 May 2024 10:04

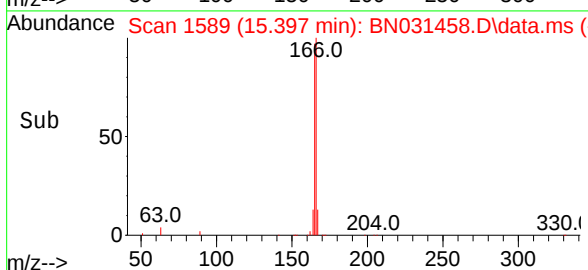
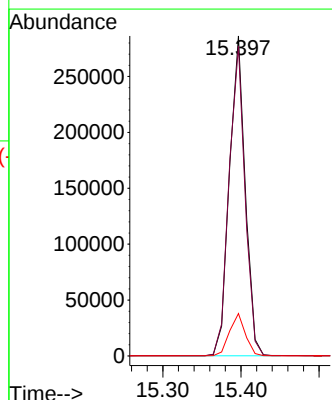
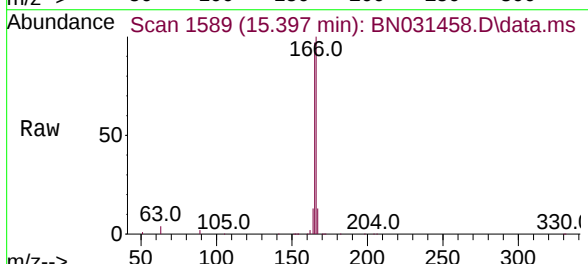
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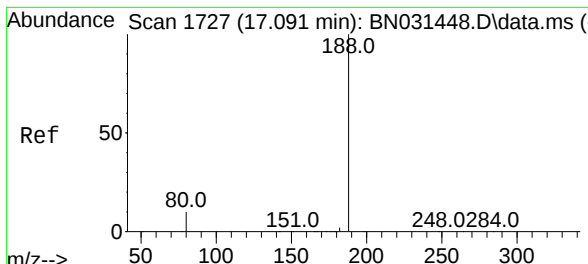
Tgt Ion:154 Resp: 1276868
Ion Ratio Lower Upper
154 100
153 111.6 89.1 133.7
152 53.1 42.6 64.0



#18
Fluorene
Concen: 4.197 ng
RT: 15.397 min Scan# 1589
Delta R.T. -0.000 min
Lab File: BN031458.D
Acq: 10 May 2024 10:04

Tgt Ion:166 Resp: 400913
Ion Ratio Lower Upper
166 100
165 97.5 78.2 117.2
167 13.2 10.8 16.2



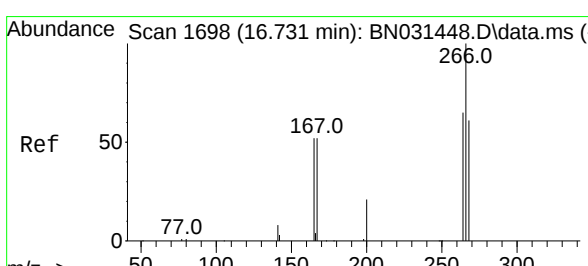
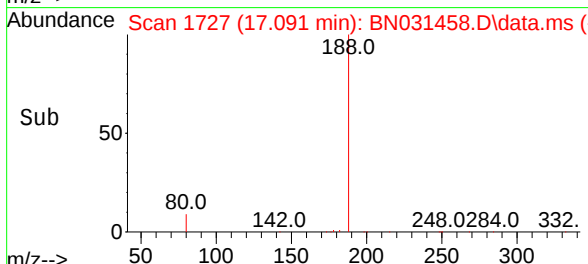
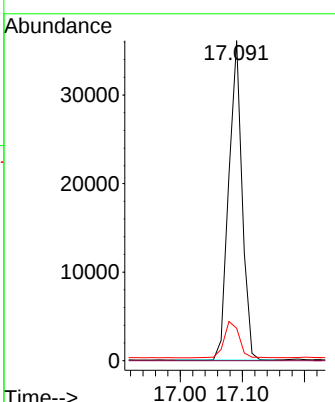
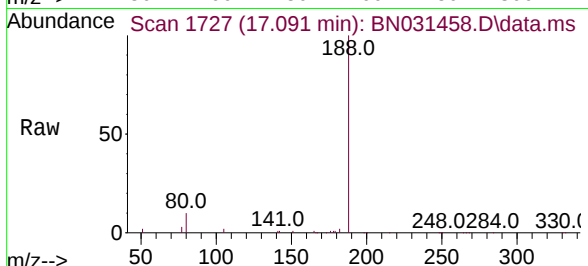


#19
 Phenanthrene-d10
 Concen: 0.400 ng
 RT: 17.091 min Scan# 1727
 Delta R.T. -0.000 min
 Lab File: BN031458.D
 Acq: 10 May 2024 10:04

Instrument : BNA_N
 ClientSampleId : PT-PAH-SOIL

Tgt Ion:188 Resp: 53728

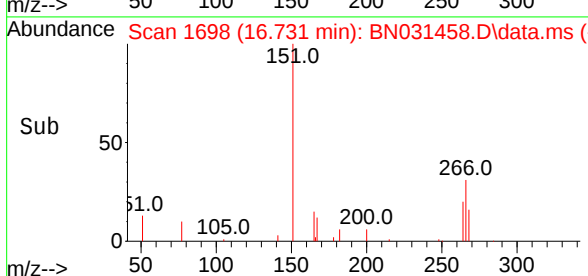
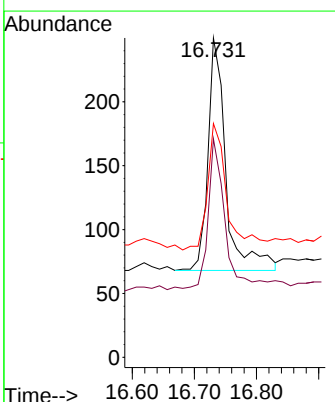
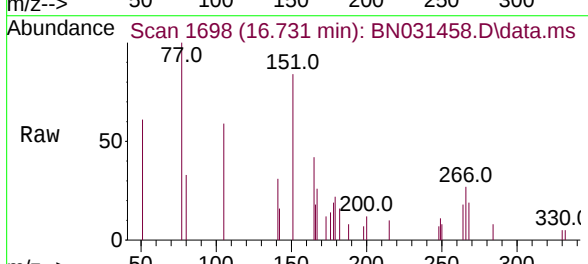
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	10.1	9.6	14.4

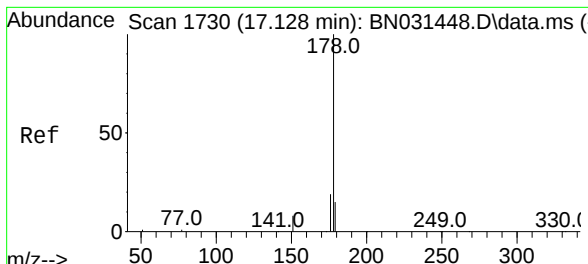


#24
 Pentachlorophenol
 Concen: 0.033 ng
 RT: 16.731 min Scan# 1698
 Delta R.T. -0.000 min
 Lab File: BN031458.D
 Acq: 10 May 2024 10:04

Tgt Ion:266 Resp: 366

Ion	Ratio	Lower	Upper
266	100		
264	59.0	50.6	75.8
268	59.3	49.0	73.4



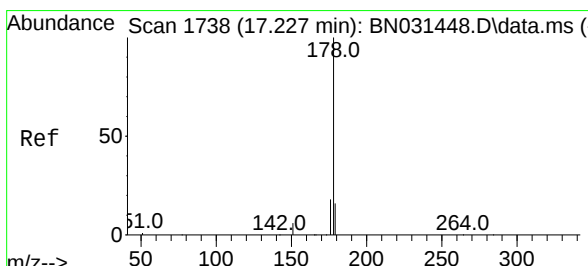
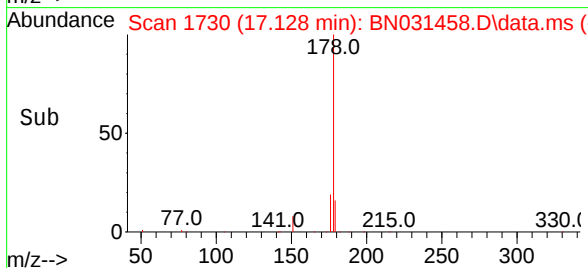
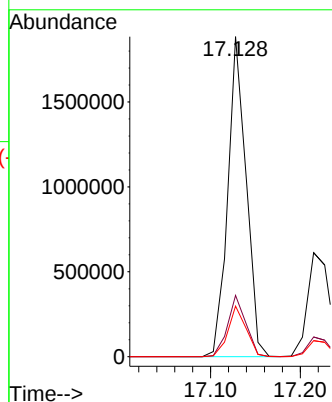
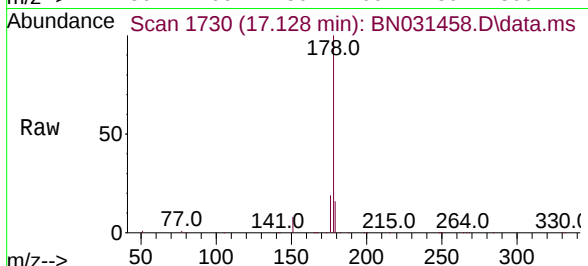


#25
 Phenanthrene
 Concen: 17.791 ng
 RT: 17.128 min Scan# 1730
 Delta R.T. -0.000 min
 Lab File: BN031458.D
 Acq: 10 May 2024 10:04

Instrument :
 BNA_N
 ClientSampleId :
 PT-PAH-SOIL

Tgt Ion:178 Resp: 2675173

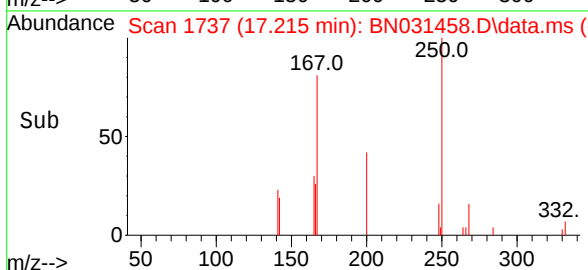
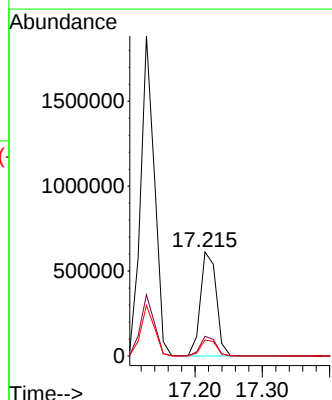
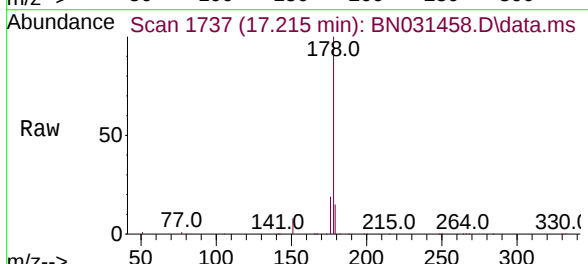
Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.3	22.9
179	15.6	12.3	18.5

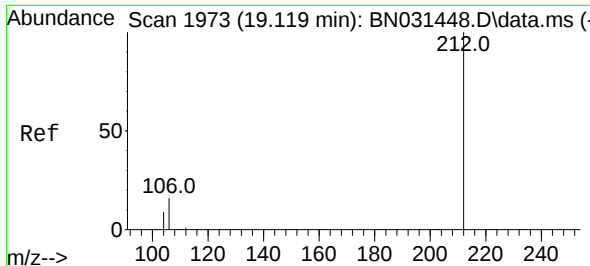


#26
 Anthracene
 Concen: 6.756 ng
 RT: 17.215 min Scan# 1737
 Delta R.T. -0.013 min
 Lab File: BN031458.D
 Acq: 10 May 2024 10:04

Tgt Ion:178 Resp: 1005522

Ion	Ratio	Lower	Upper
178	100		
176	18.5	14.9	22.3
179	15.4	12.4	18.6

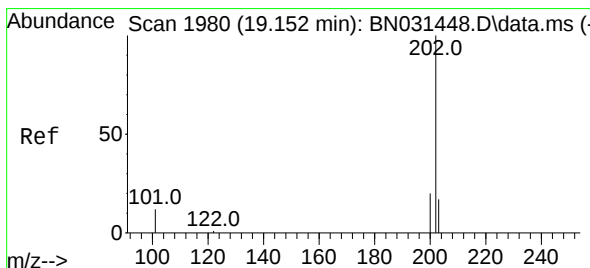
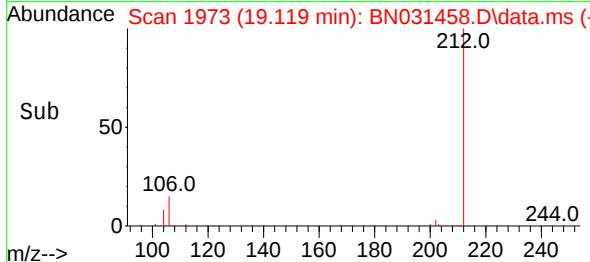
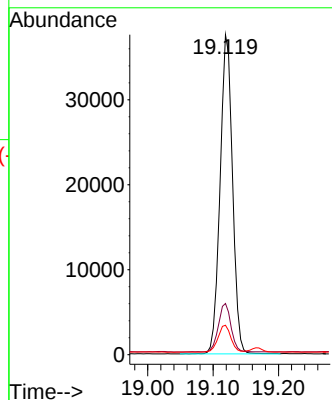
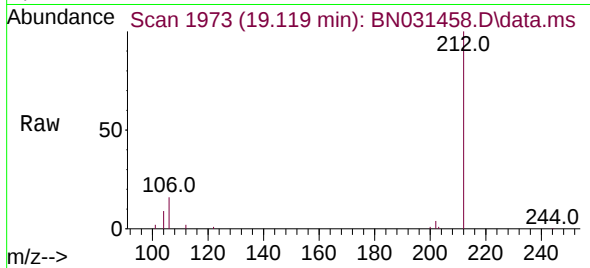




#27
Fluoranthene-d10
Concen: 0.332 ng
RT: 19.119 min Scan# 1973
Delta R.T. -0.000 min
Lab File: BN031458.D
Acq: 10 May 2024 10:04

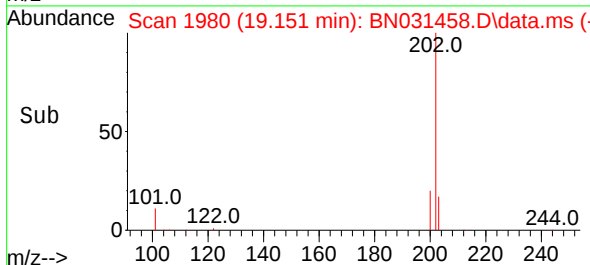
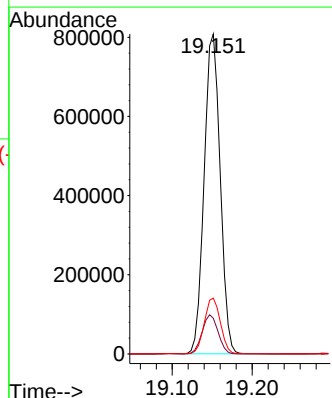
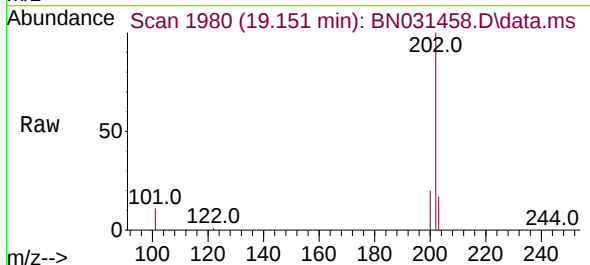
Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOIL

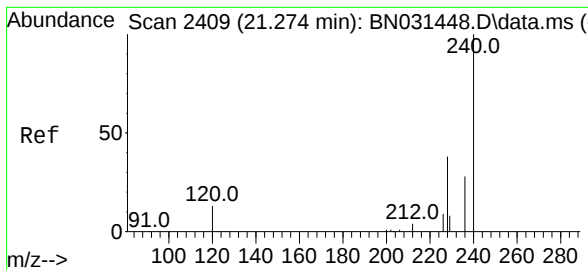
Tgt Ion:212 Resp: 49464
Ion Ratio Lower Upper
212 100
106 15.4 12.0 18.0
104 8.7 6.9 10.3



#28
Fluoranthene
Concen: 6.146 ng
RT: 19.151 min Scan# 1980
Delta R.T. -0.000 min
Lab File: BN031458.D
Acq: 10 May 2024 10:04

Tgt Ion:202 Resp: 1122809
Ion Ratio Lower Upper
202 100
101 12.1 9.8 14.6
203 17.4 13.8 20.8

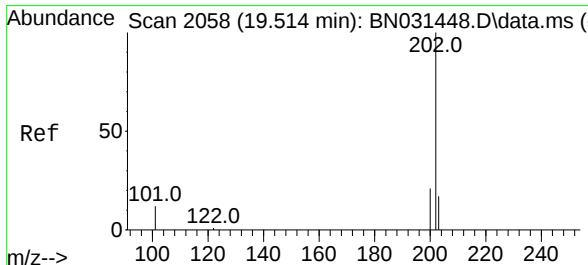
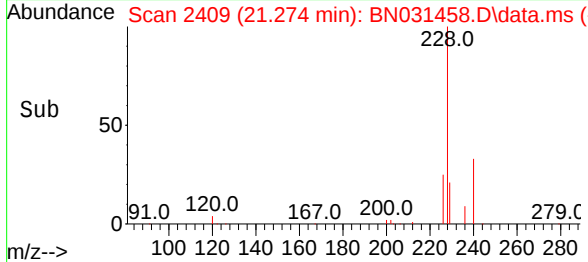
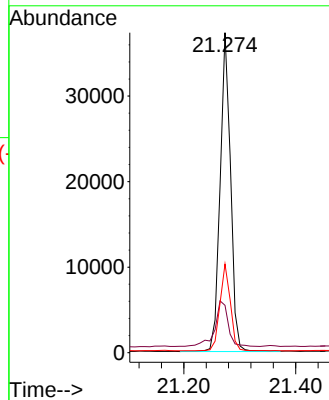
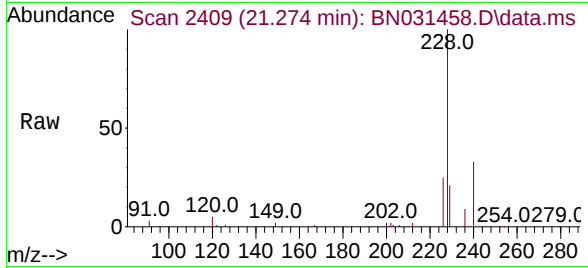




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.274 min Scan# 2409
Delta R.T. -0.000 min
Lab File: BN031458.D
Acq: 10 May 2024 10:04

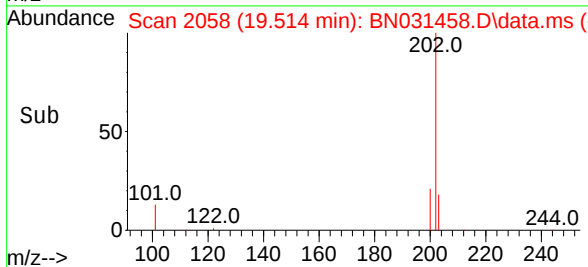
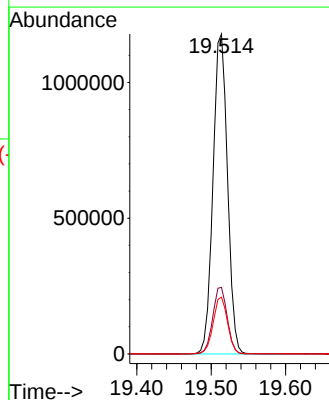
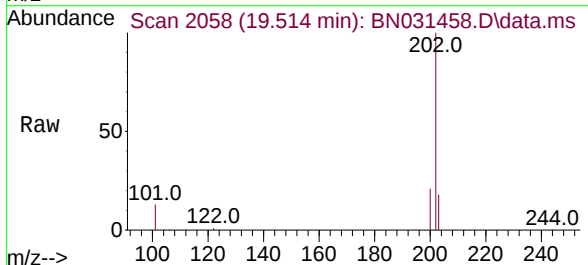
Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOIL

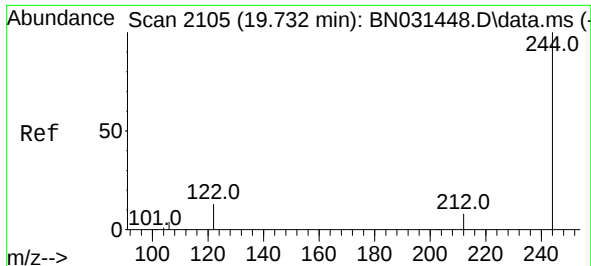
Tgt Ion:240 Resp: 48091
Ion Ratio Lower Upper
240 100
120 14.8 11.4 17.2
236 27.7 22.2 33.4



#30
Pyrene
Concen: 8.155 ng
RT: 19.514 min Scan# 2058
Delta R.T. -0.000 min
Lab File: BN031458.D
Acq: 10 May 2024 10:04

Tgt Ion:202 Resp: 1587846
Ion Ratio Lower Upper
202 100
200 20.9 16.6 25.0
203 17.8 14.3 21.5

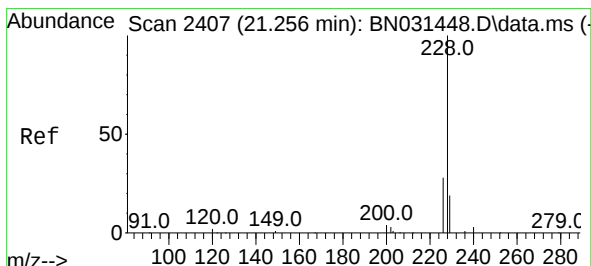
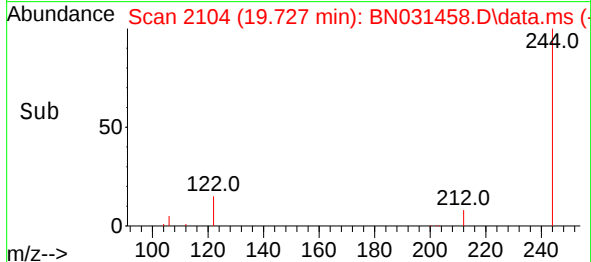
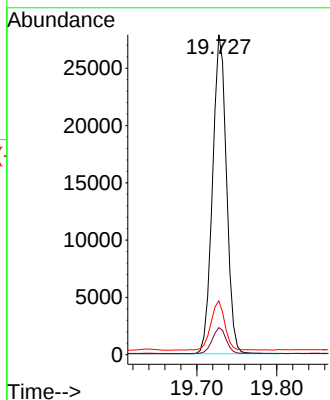
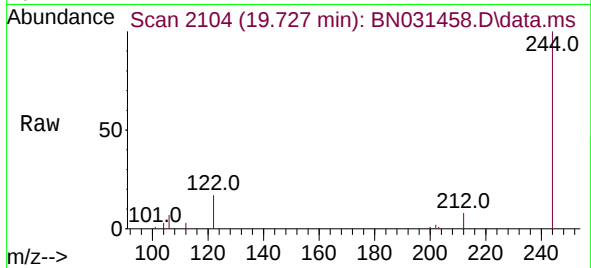




#31
 Terphenyl-d14
 Concen: 0.286 ng
 RT: 19.727 min Scan# 2104
 Delta R.T. -0.005 min
 Lab File: BN031458.D
 Acq: 10 May 2024 10:04

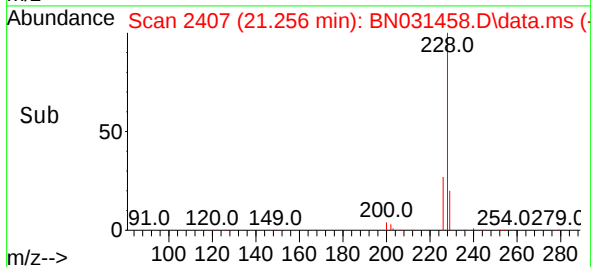
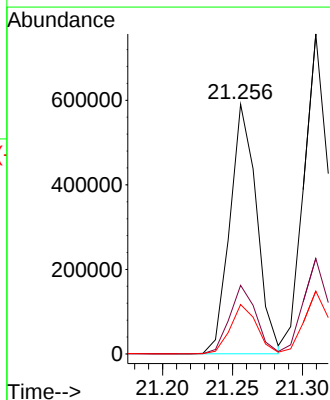
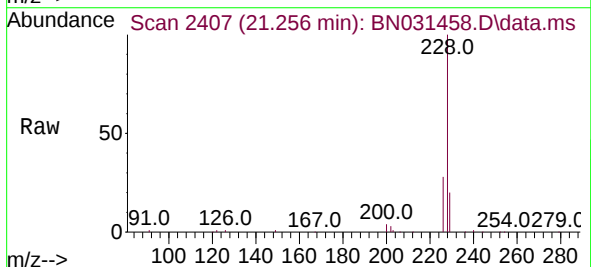
Instrument :
 BNA_N
 ClientSampleId :
 PT-PAH-SOIL

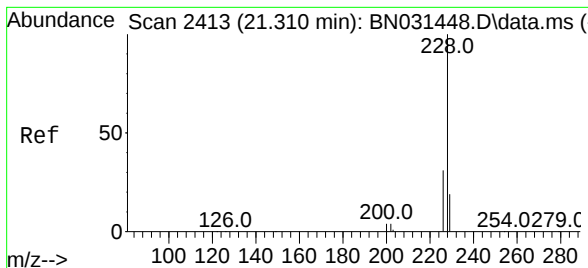
Tgt Ion:244 Resp: 33609
 Ion Ratio Lower Upper
 244 100
 212 8.5 6.5 9.7
 122 16.9 11.4 17.2



#32
 Benzo(a)anthracene
 Concen: 4.236 ng
 RT: 21.256 min Scan# 2407
 Delta R.T. -0.000 min
 Lab File: BN031458.D
 Acq: 10 May 2024 10:04

Tgt Ion:228 Resp: 785988
 Ion Ratio Lower Upper
 228 100
 226 27.5 22.4 33.6
 229 19.8 15.5 23.3





#33

Chrysene

Concen: 5.241 ng

RT: 21.309 min Scan# 2413

Delta R.T. -0.000 min

Lab File: BN031458.D

Acq: 10 May 2024 10:04

Instrument :

BNA_N

ClientSampleId :

PT-PAH-SOIL

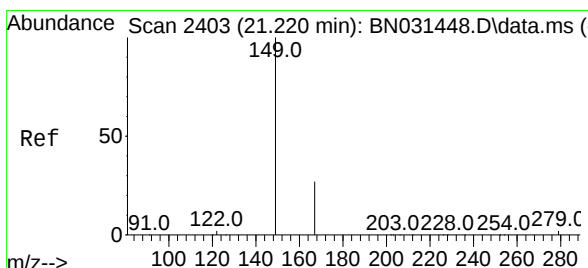
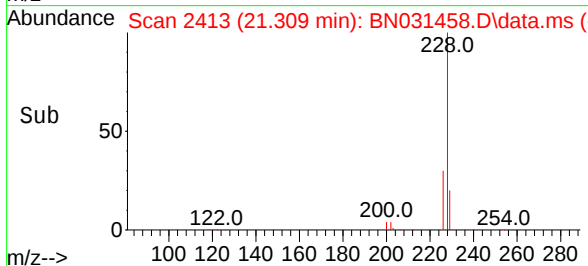
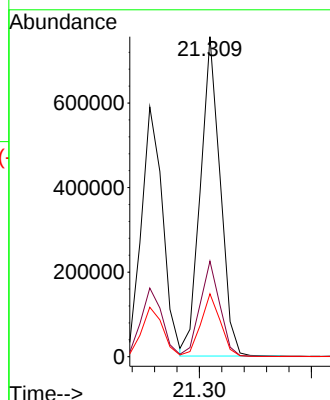
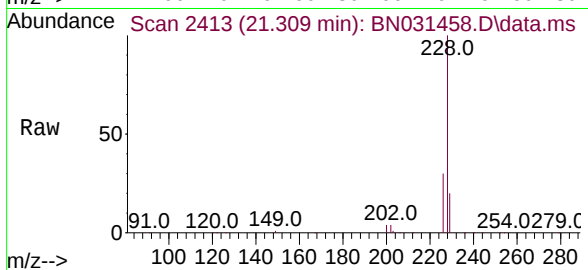
Tgt Ion:228 Resp: 925944

Ion Ratio Lower Upper

228 100

226 29.9 24.5 36.7

229 19.6 15.8 23.8



#34

Bis(2-ethylhexyl)phthalate

Concen: 2.188 ng

RT: 21.220 min Scan# 2403

Delta R.T. -0.000 min

Lab File: BN031458.D

Acq: 10 May 2024 10:04

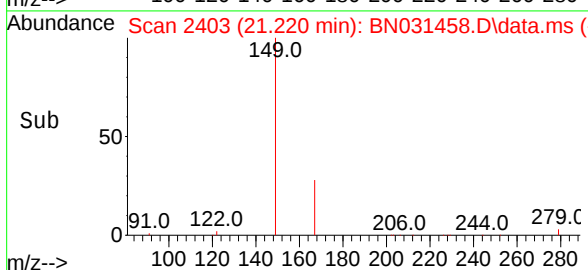
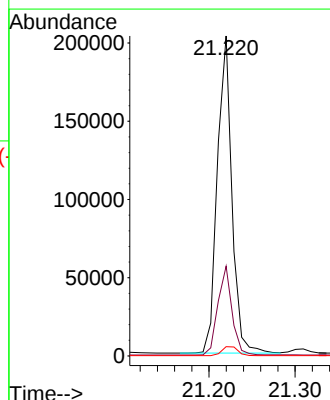
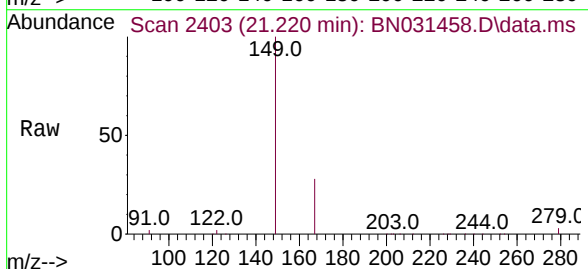
Tgt Ion:149 Resp: 237680

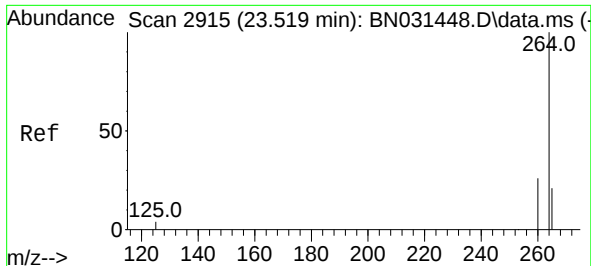
Ion Ratio Lower Upper

149 100

167 27.1 22.1 33.1

279 3.2 2.7 4.1

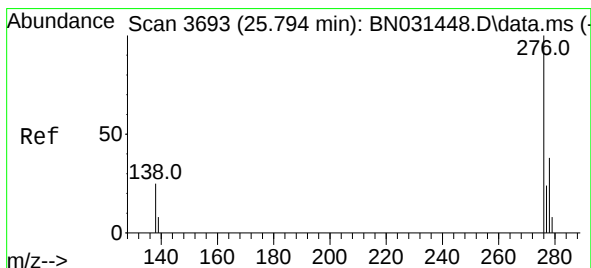
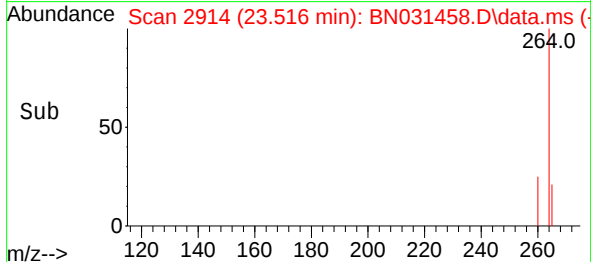
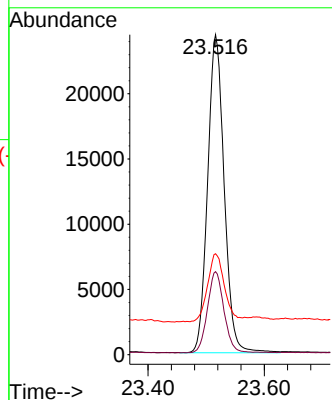
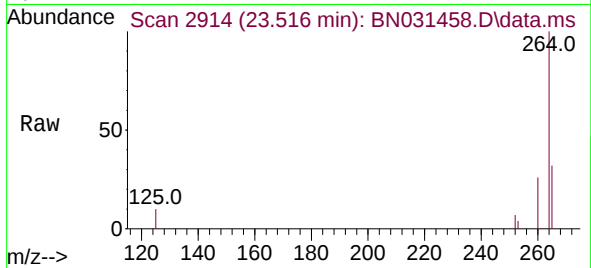




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.516 min Scan# 2915
Delta R.T. -0.003 min
Lab File: BN031458.D
Acq: 10 May 2024 10:04

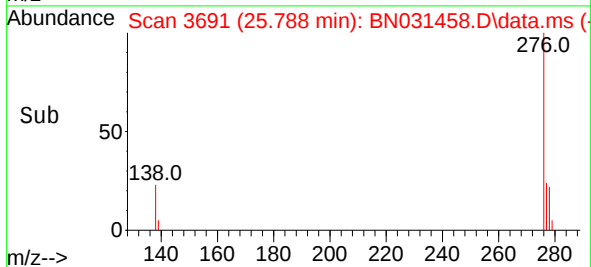
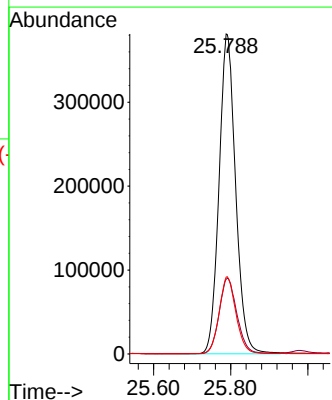
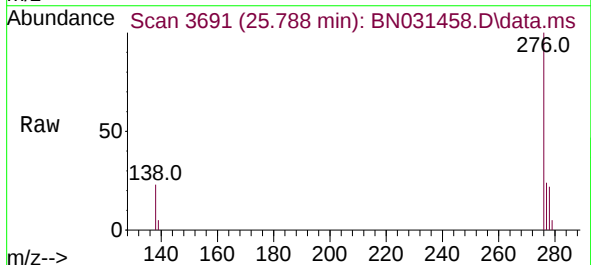
Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOIL

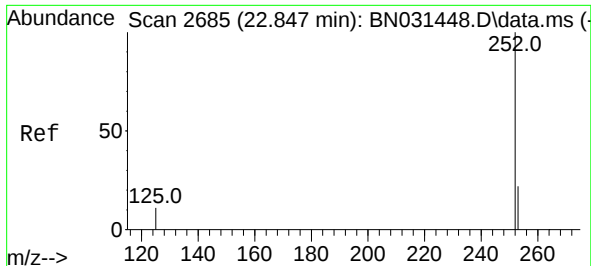
Tgt Ion:264 Resp: 48163
Ion Ratio Lower Upper
264 100
260 25.9 20.6 31.0
265 31.6 24.0 36.0



#36
Indeno(1,2,3-cd)pyrene
Concen: 5.949 ng
RT: 25.788 min Scan# 3691
Delta R.T. -0.006 min
Lab File: BN031458.D
Acq: 10 May 2024 10:04

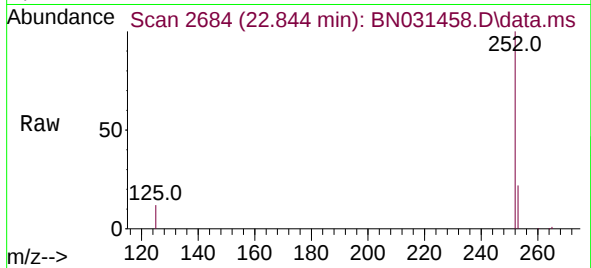
Tgt Ion:276 Resp: 1141833
Ion Ratio Lower Upper
276 100
138 25.1 23.0 34.6
277 24.3 19.9 29.9



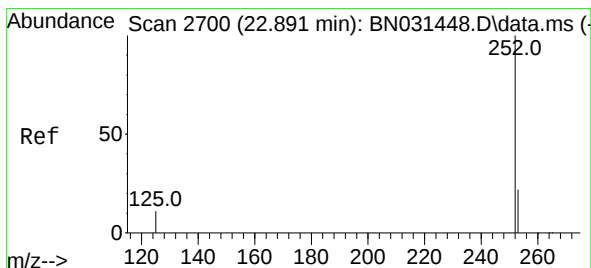
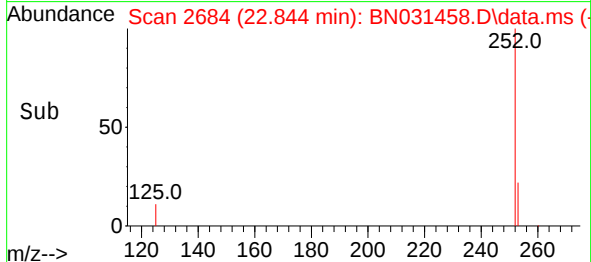
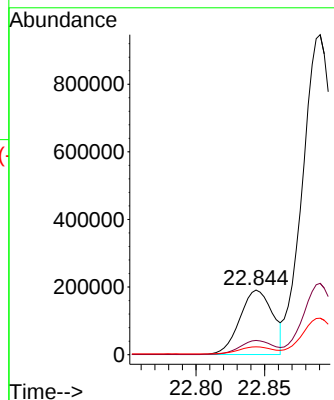


#37
Benzo(b)fluoranthene
Concen: 1.841 ng
RT: 22.844 min Scan# 2684
Delta R.T. -0.003 min
Lab File: BN031458.D
Acq: 10 May 2024 10:04

Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOIL

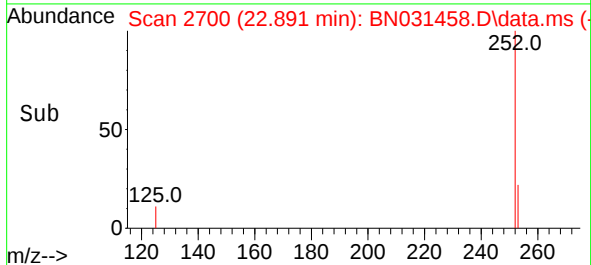
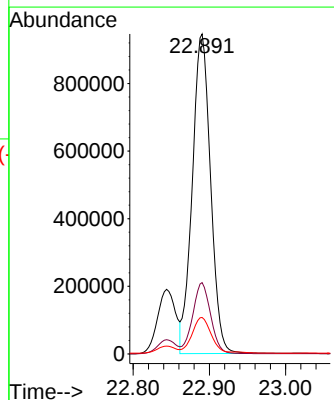
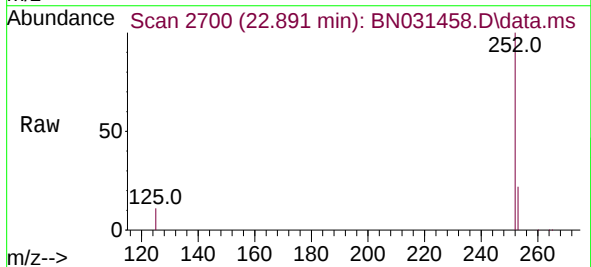


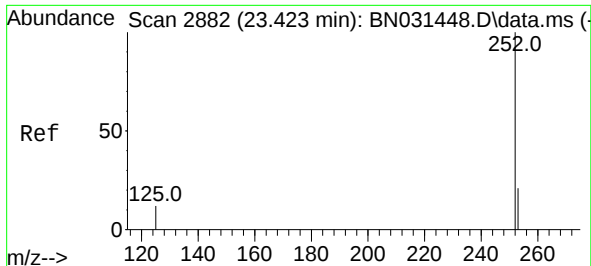
Tgt Ion:252 Resp: 318282
Ion Ratio Lower Upper
252 100
253 22.0 18.2 27.4
125 12.2 10.5 15.7



#38
Benzo(k)fluoranthene
Concen: 9.648 ng
RT: 22.891 min Scan# 2700
Delta R.T. -0.000 min
Lab File: BN031458.D
Acq: 10 May 2024 10:04

Tgt Ion:252 Resp: 1578826
Ion Ratio Lower Upper
252 100
253 22.3 18.2 27.2
125 11.4 11.0 16.6





#39

Benzo(a)pyrene

Concen: 5.477 ng

RT: 23.423 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN031458.D

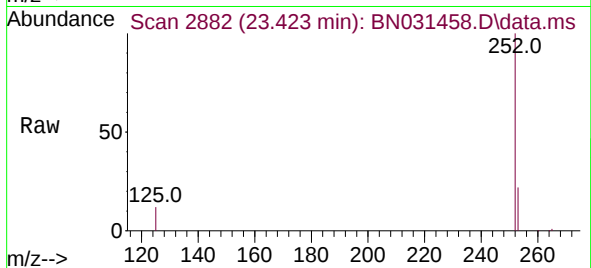
Acq: 10 May 2024 10:04

Instrument :

BNA_N

ClientSampleId :

PT-PAH-SOIL



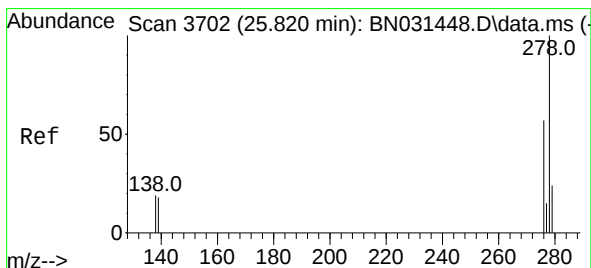
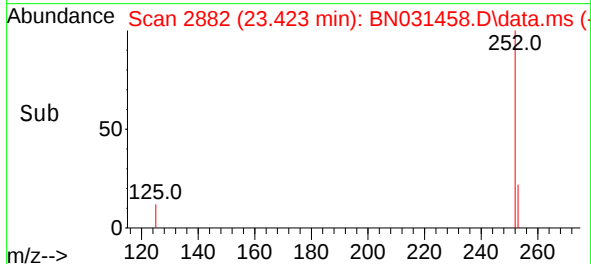
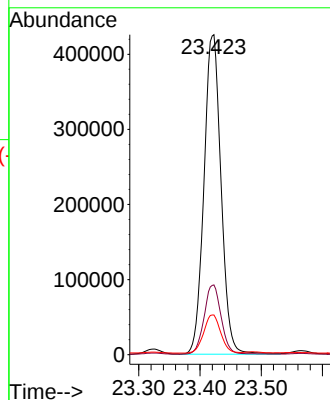
Tgt Ion:252 Resp: 823309

Ion Ratio Lower Upper

252 100

253 21.8 18.2 27.2

125 12.4 11.9 17.9



#40

Dibenzo(a,h)anthracene

Concen: 3.662 ng

RT: 25.811 min Scan# 3699

Delta R.T. -0.009 min

Lab File: BN031458.D

Acq: 10 May 2024 10:04

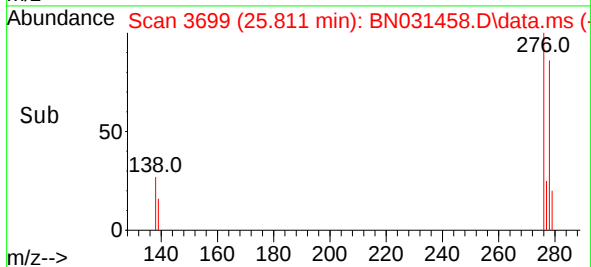
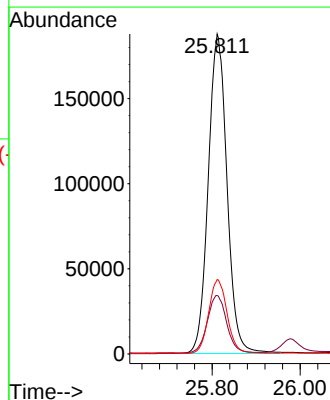
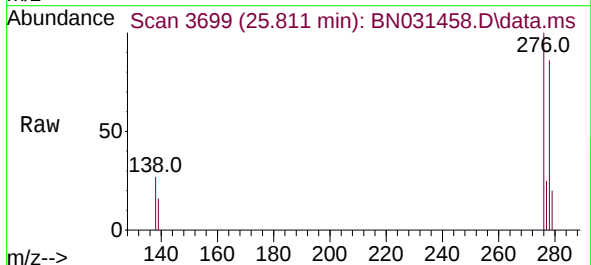
Tgt Ion:278 Resp: 557120

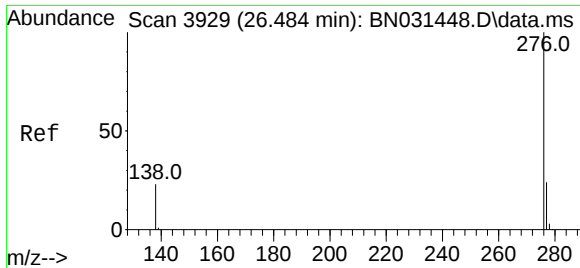
Ion Ratio Lower Upper

278 100

139 18.3 15.9 23.9

279 23.2 19.8 29.8





#41
Benzo(g,h,i)perylene
Concen: 6.620 ng
RT: 26.484 min Scan# 3929
Delta R.T. -0.000 min
Lab File: BN031458.D
Acq: 10 May 2024 10:04

Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOIL

Tgt Ion:276 Resp: 1083308
Ion Ratio Lower Upper
276 100
277 23.9 19.4 29.0
138 23.8 20.4 30.6

