

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051723\
 Data File : BN025451.D
 Acq On : 17 May 2023 12:03
 Operator : CG/JU
 Sample : 02500-14
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PT-PAH-SOIL

Quant Time: May 17 12:58:58 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051623.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 17 02:52:36 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

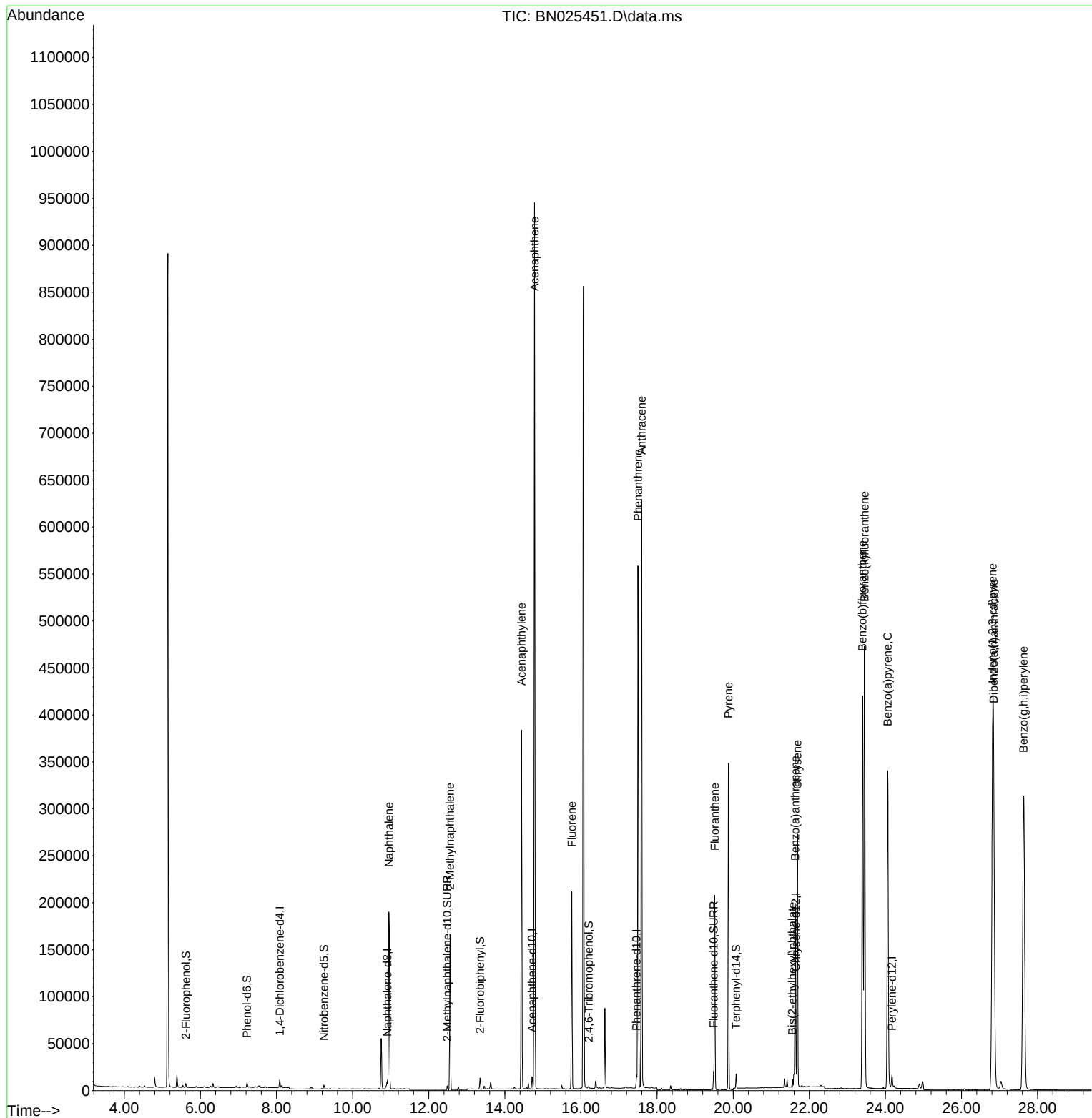
Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.084	152	3847	0.400	ng	0.00
7) Naphthalene-d8	10.910	136	11399	0.400	ng	0.00
13) Acenaphthene-d10	14.715	164	7082	0.400	ng	0.00
19) Phenanthrene-d10	17.460	188	17009	0.400	ng	0.00
29) Chrysene-d12	21.643	240	17368	0.400	ng	0.00
35) Perylene-d12	24.170	264	18986	0.400	ng	-0.03
System Monitoring Compounds						
4) 2-Fluorophenol	5.614	112	3272	0.396	ng	0.00
5) Phenol-d6	7.225	99	4628	0.417	ng	0.00
8) Nitrobenzene-d5	9.244	82	3086	0.396	ng	-0.01
11) 2-Methylnaphthalene-d10	12.487	152	6055	0.380	ng	0.00
14) 2,4,6-Tribromophenol	16.206	330	1010	0.421	ng	0.00
15) 2-Fluorobiphenyl	13.347	172	9991	0.386	ng	-0.01
27) Fluoranthene-d10	19.485	212	18386	0.455	ng	0.00
31) Terphenyl-d14	20.076	244	12726	0.403	ng	0.00
Target Compounds						
						Qvalue
9) Naphthalene	10.953	128	253453	8.910	ng	99
12) 2-Methylnaphthalene	12.559	142	110778	5.294	ng	100
16) Acenaphthylene	14.437	152	391842	12.000	ng	100
17) Acenaphthene	14.779	154	446668	22.004	ng	99
18) Fluorene	15.759	166	136341	5.113	ng	98
25) Phenanthrene	17.497	178	600710	12.551	ng	100
26) Anthracene	17.596	178	675434	14.580	ng	100
28) Fluoranthene	19.515	202	180785	3.191	ng	99
30) Pyrene	19.877	202	306420	4.621	ng	99
32) Benzo(a)anthracene	21.625	228	178589	2.928	ng	99
33) Chrysene	21.688	228	235051	3.879	ng	100
34) Bis(2-ethylhexyl)phtha...	21.553	149	8419	0.236	ng	99
36) Indeno(1,2,3-cd)pyrene	26.816	276	728228	9.492	ng	99
37) Benzo(b)fluoranthene	23.398	252	603445	9.068	ng	96
38) Benzo(k)fluoranthene	23.451	252	674363	9.865	ng	96
39) Benzo(a)pyrene	24.062	252	553846	8.737	ng	95
40) Dibenzo(a,h)anthracene	26.845	278	463715	7.524	ng	97
41) Benzo(g,h,i)perylene	27.632	276	737733	11.348	ng	98

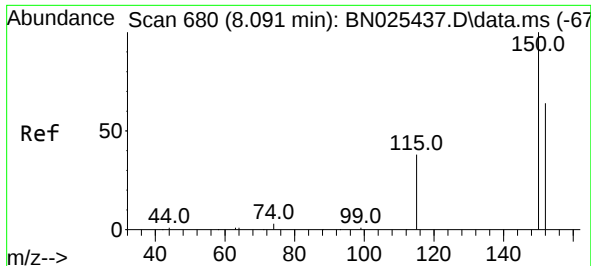
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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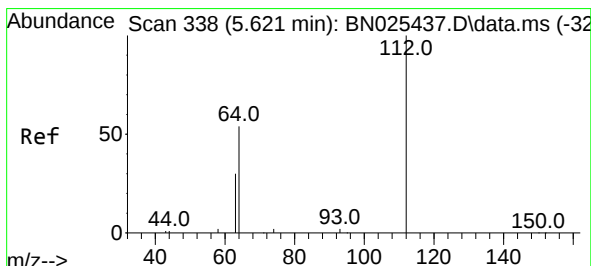
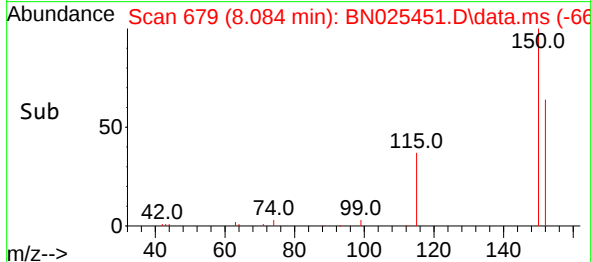
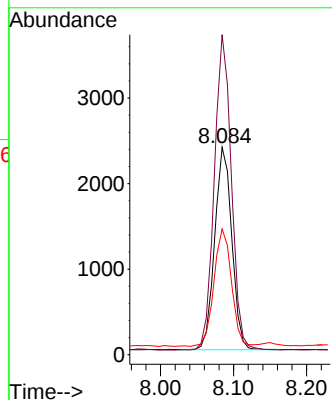
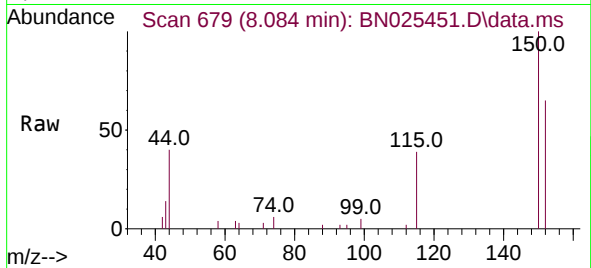




#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 8.084 min Scan# 61
 Delta R.T. -0.007 min
 Lab File: BN025451.D
 Acq: 17 May 2023 12:03

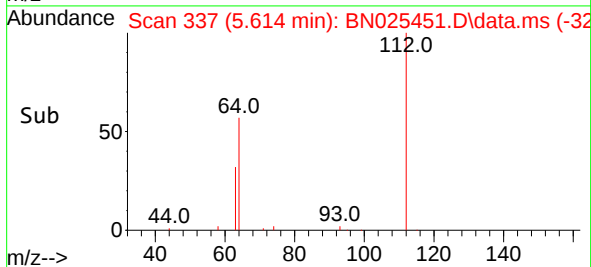
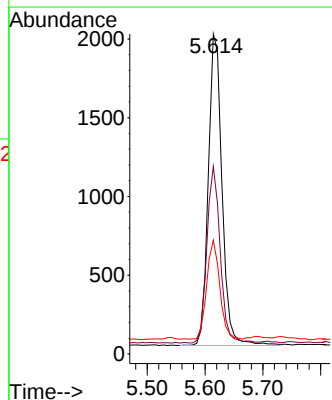
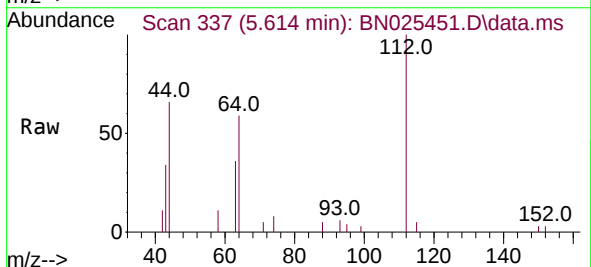
Instrument :
 BNA_N
 ClientSampleId :
 PT-PAH-SOIL

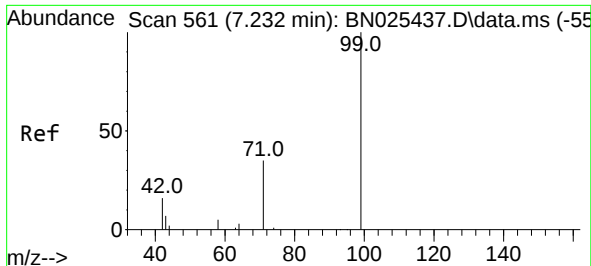
Tgt Ion:152 Resp: 3847
 Ion Ratio Lower Upper
 152 100
 150 154.3 123.7 185.5
 115 60.6 50.0 75.0



#4
 2-Fluorophenol
 Concen: 0.396 ng
 RT: 5.614 min Scan# 337
 Delta R.T. -0.007 min
 Lab File: BN025451.D
 Acq: 17 May 2023 12:03

Tgt Ion:112 Resp: 3272
 Ion Ratio Lower Upper
 112 100
 64 54.8 43.9 65.9
 63 30.3 25.0 37.4

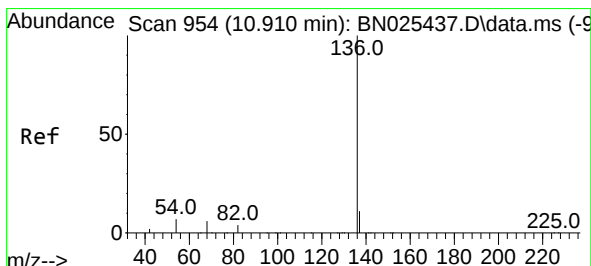
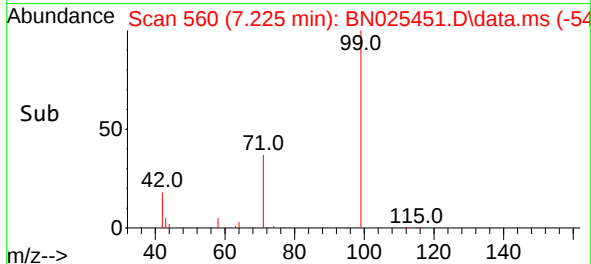
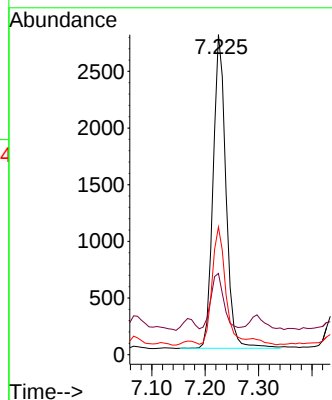
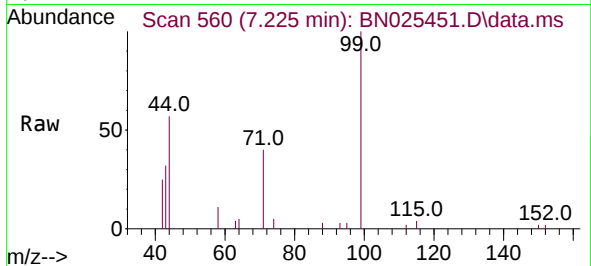




#5
Phenol-d6
Concen: 0.417 ng
RT: 7.225 min Scan# 561
Delta R.T. -0.007 min
Lab File: BN025451.D
Acq: 17 May 2023 12:03

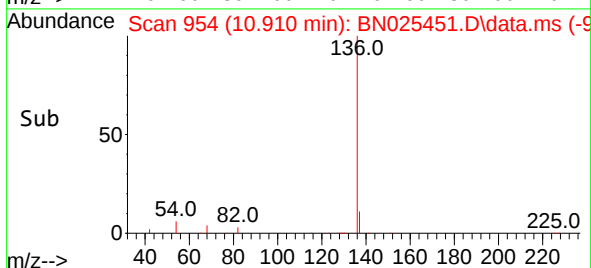
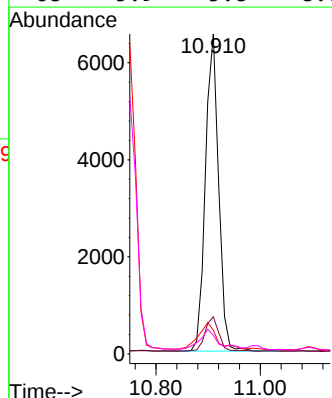
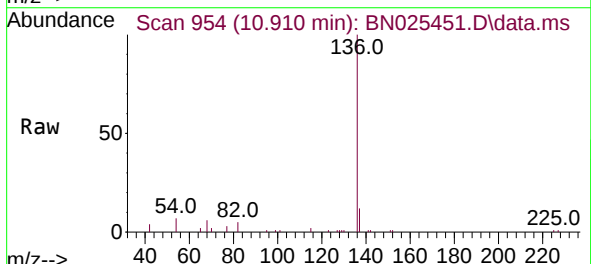
Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOIL

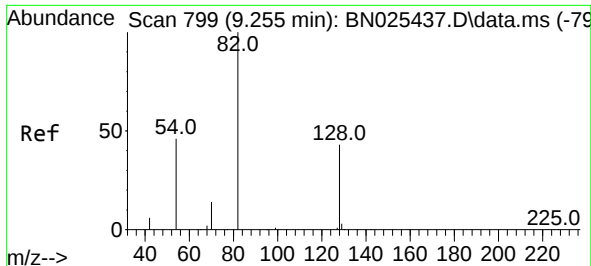
Tgt Ion: 99 Resp: 4628
Ion Ratio Lower Upper
99 100
42 18.4 16.4 24.6
71 38.6 29.4 44.0



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.910 min Scan# 954
Delta R.T. 0.000 min
Lab File: BN025451.D
Acq: 17 May 2023 12:03

Tgt Ion: 136 Resp: 11399
Ion Ratio Lower Upper
136 100
137 11.6 9.4 14.0
54 7.5 7.0 10.4
68 5.9 5.8 8.6

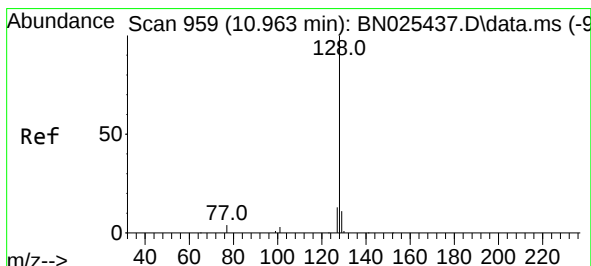
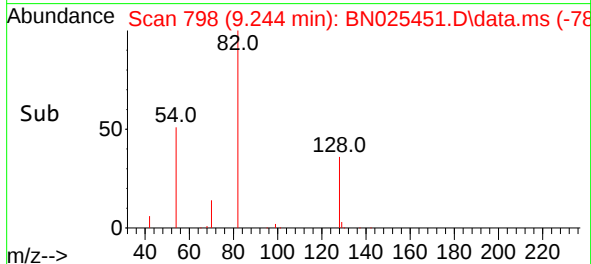
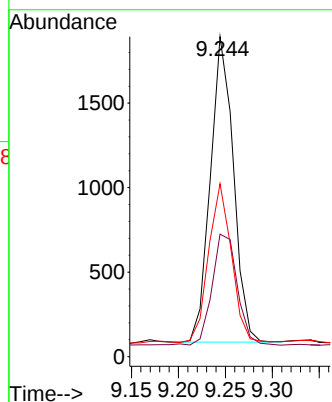
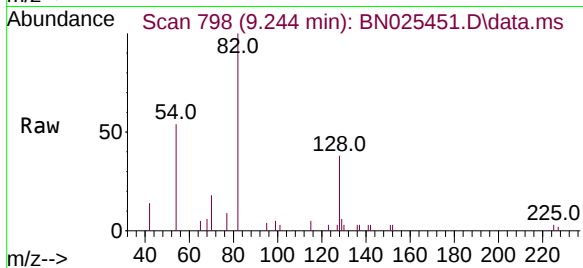




#8
Nitrobenzene-d5
Concen: 0.396 ng
RT: 9.244 min Scan# 799
Delta R.T. -0.011 min
Lab File: BN025451.D
Acq: 17 May 2023 12:03

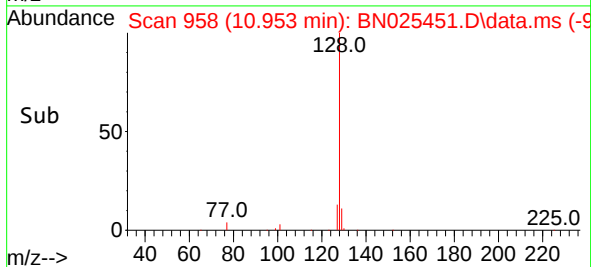
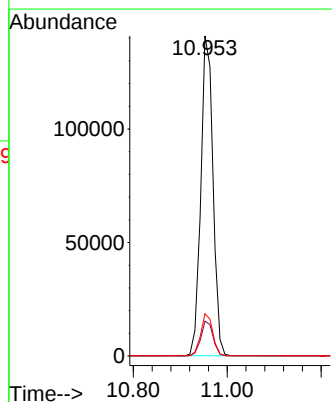
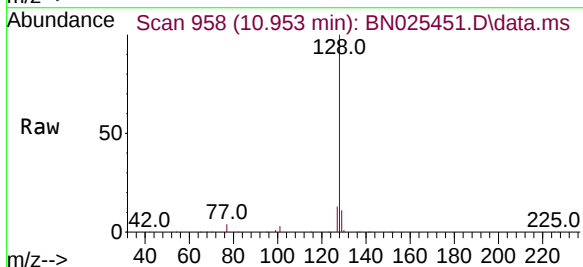
Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOIL

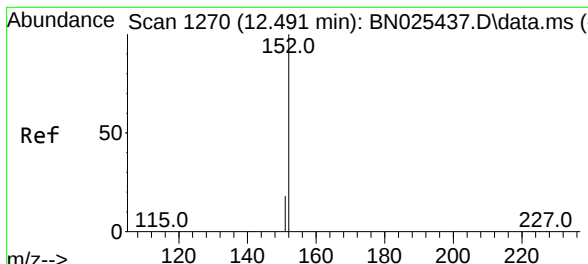
Tgt Ion: 82 Resp: 3086
Ion Ratio Lower Upper
82 100
128 38.3 35.7 53.5
54 54.0 38.6 57.8



#9
Naphthalene
Concen: 8.910 ng
RT: 10.953 min Scan# 958
Delta R.T. -0.010 min
Lab File: BN025451.D
Acq: 17 May 2023 12:03

Tgt Ion: 128 Resp: 253453
Ion Ratio Lower Upper
128 100
129 10.9 9.4 14.2
127 13.2 10.6 16.0

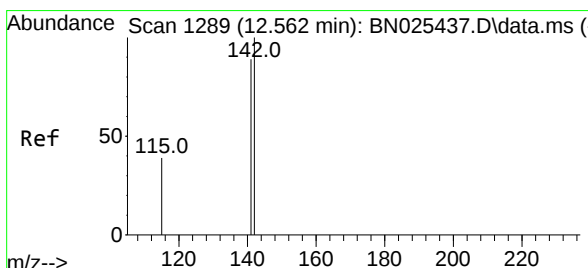
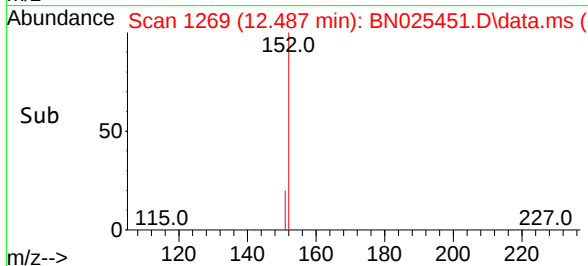
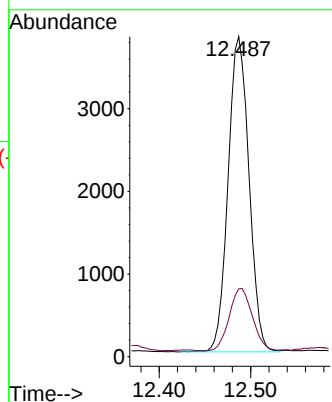
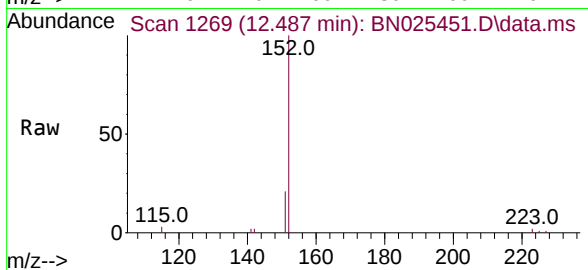




#11
2-Methylnaphthalene-d10
Concen: 0.380 ng
RT: 12.487 min Scan# 11
Delta R.T. -0.004 min
Lab File: BN025451.D
Acq: 17 May 2023 12:03

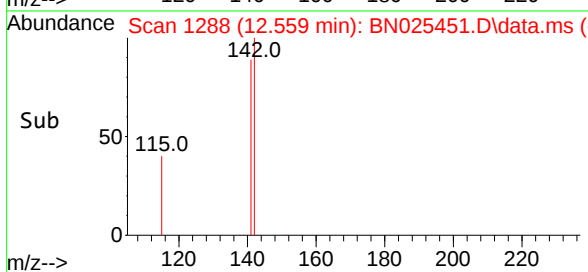
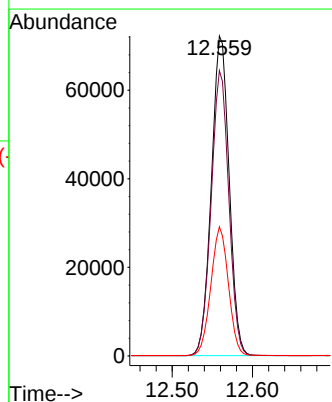
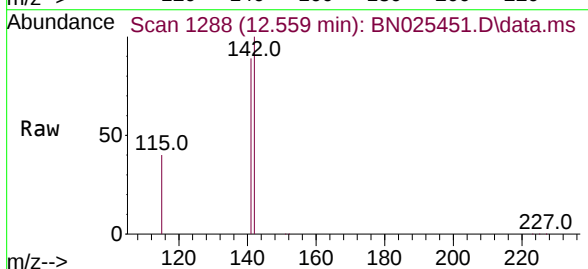
Instrument :
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ClientSampleId :
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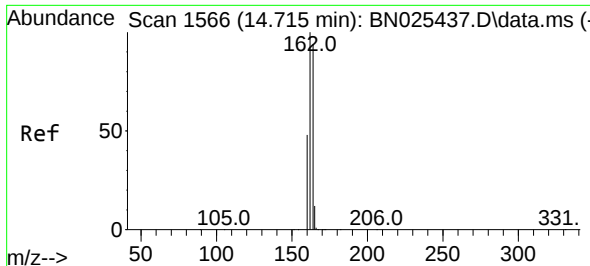
Tgt Ion:152 Resp: 6055
Ion Ratio Lower Upper
152 100
151 21.8 16.5 24.7



#12
2-Methylnaphthalene
Concen: 5.294 ng
RT: 12.559 min Scan# 1288
Delta R.T. -0.003 min
Lab File: BN025451.D
Acq: 17 May 2023 12:03

Tgt Ion:142 Resp: 110778
Ion Ratio Lower Upper
142 100
141 89.1 71.4 107.0
115 40.4 32.6 48.8

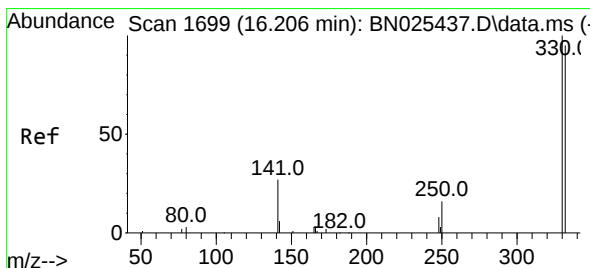
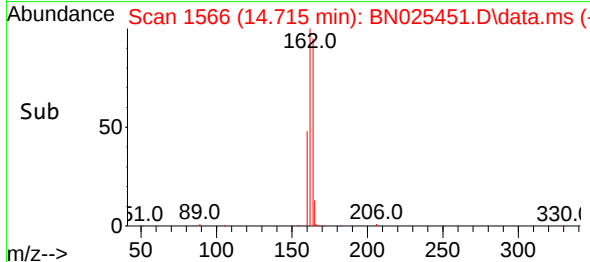
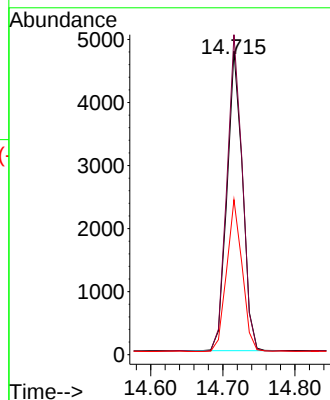
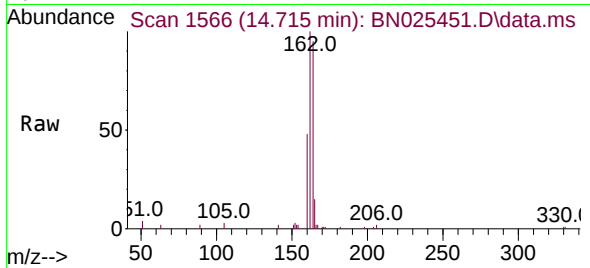




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.715 min Scan# 1566
Delta R.T. -0.000 min
Lab File: BN025451.D
Acq: 17 May 2023 12:03

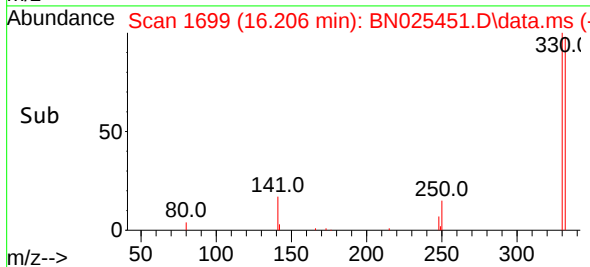
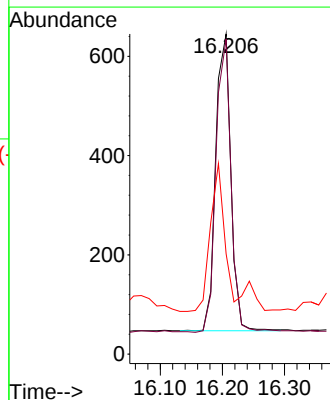
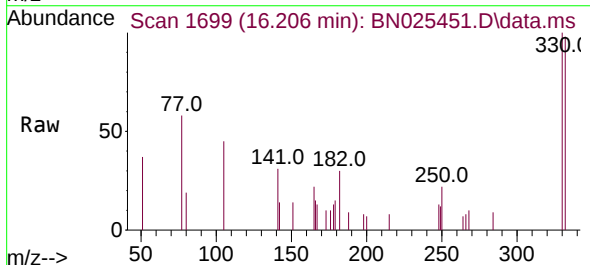
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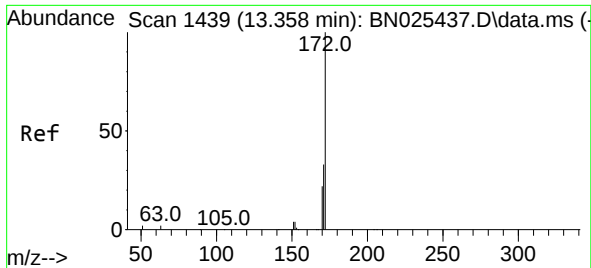
Tgt Ion:164 Resp: 7082
Ion Ratio Lower Upper
164 100
162 105.4 84.8 127.2
160 51.1 40.6 61.0



#14
2,4,6-Tribromophenol
Concen: 0.421 ng
RT: 16.206 min Scan# 1699
Delta R.T. -0.000 min
Lab File: BN025451.D
Acq: 17 May 2023 12:03

Tgt Ion:330 Resp: 1010
Ion Ratio Lower Upper
330 100
332 98.7 75.5 113.3
141 49.2 35.3 52.9

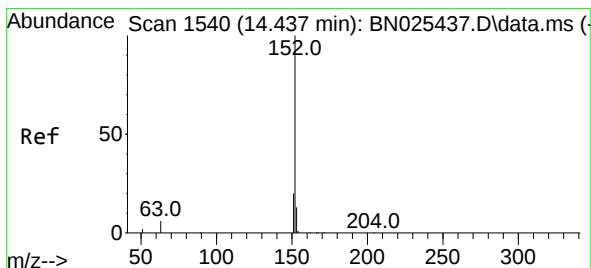
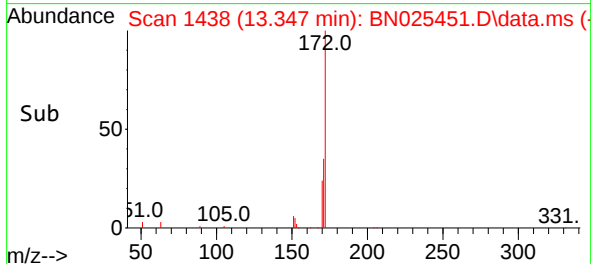
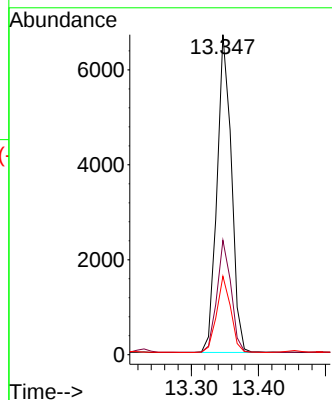
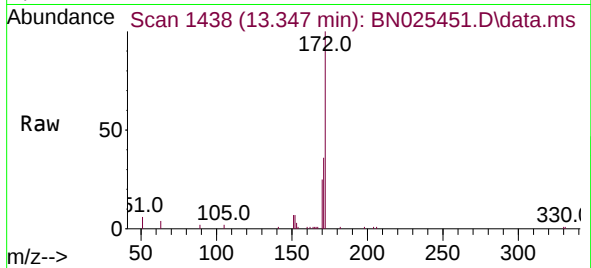




#15
2-Fluorobiphenyl
Concen: 0.386 ng
RT: 13.347 min Scan# 1438
Delta R.T. -0.011 min
Lab File: BN025451.D
Acq: 17 May 2023 12:03

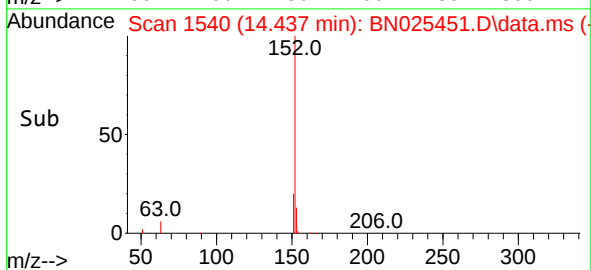
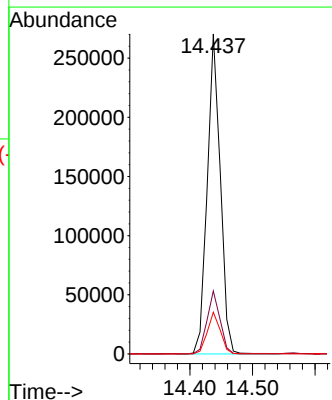
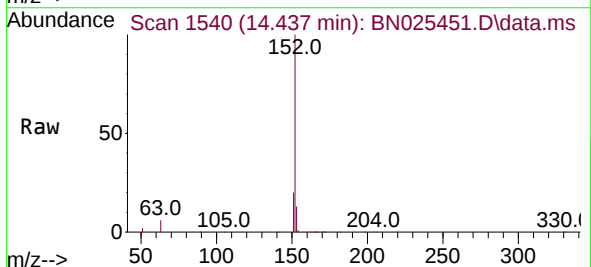
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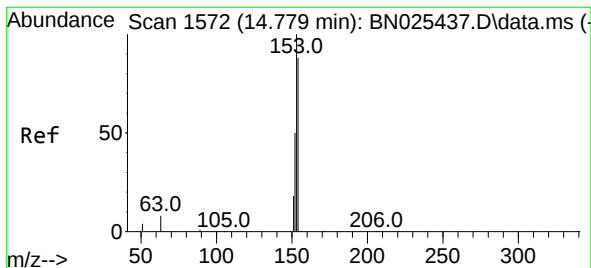
Tgt Ion:172 Resp: 9991
Ion Ratio Lower Upper
172 100
171 35.7 27.0 40.6
170 24.5 18.2 27.2



#16
Acenaphthylene
Concen: 12.000 ng
RT: 14.437 min Scan# 1540
Delta R.T. 0.000 min
Lab File: BN025451.D
Acq: 17 May 2023 12:03

Tgt Ion:152 Resp: 391842
Ion Ratio Lower Upper
152 100
151 19.6 15.5 23.3
153 13.0 10.4 15.6





#17

Acenaphthene

Concen: 22.004 ng

RT: 14.779 min Scan# 1572

Delta R.T. 0.000 min

Lab File: BN025451.D

Acq: 17 May 2023 12:03

Instrument :

BNA_N

ClientSampleId :

PT-PAH-SOIL

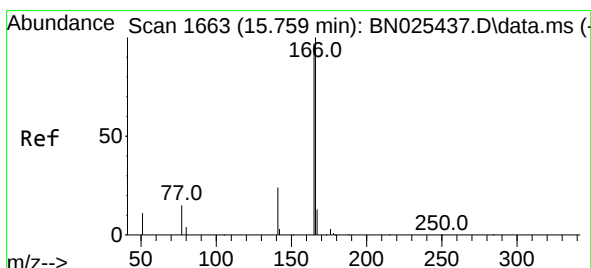
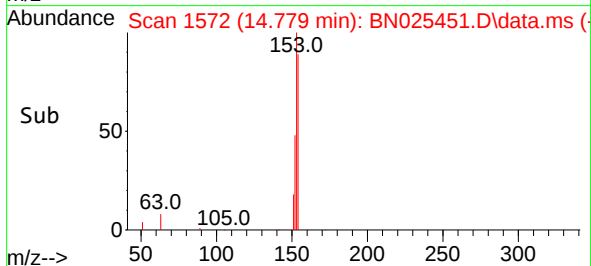
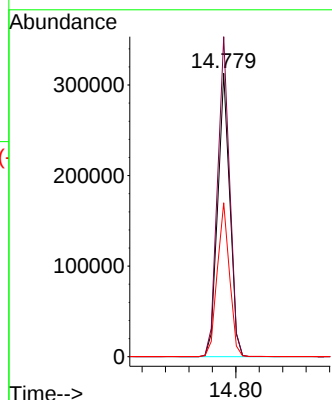
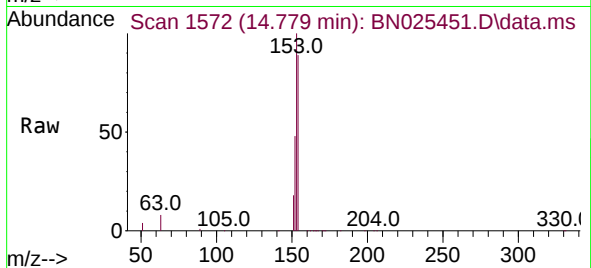
Tgt Ion:154 Resp: 446668

Ion Ratio Lower Upper

154 100

153 113.3 90.6 135.8

152 54.9 45.7 68.5



#18

Fluorene

Concen: 5.113 ng

RT: 15.759 min Scan# 1663

Delta R.T. 0.000 min

Lab File: BN025451.D

Acq: 17 May 2023 12:03

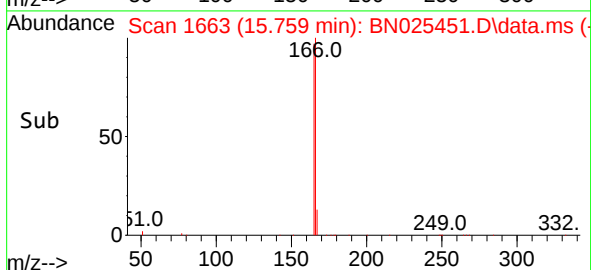
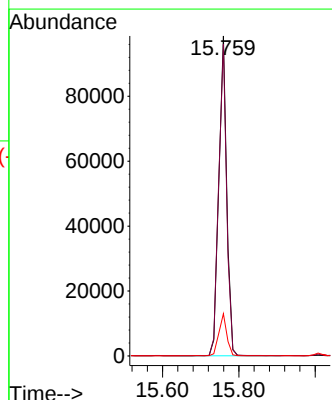
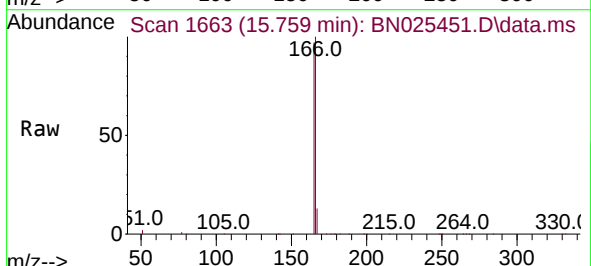
Tgt Ion:166 Resp: 136341

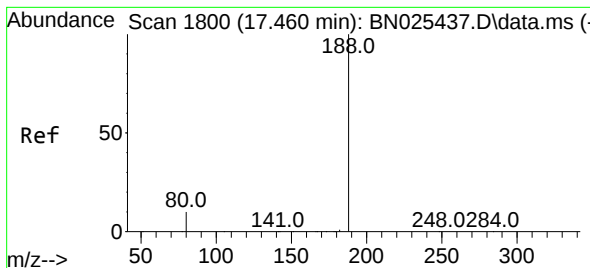
Ion Ratio Lower Upper

166 100

165 98.5 76.7 115.1

167 13.7 10.5 15.7





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.460 min Scan# 1800

Delta R.T. -0.000 min

Lab File: BN025451.D

Acq: 17 May 2023 12:03

Instrument :

BNA_N

ClientSampleId :

PT-PAH-SOIL

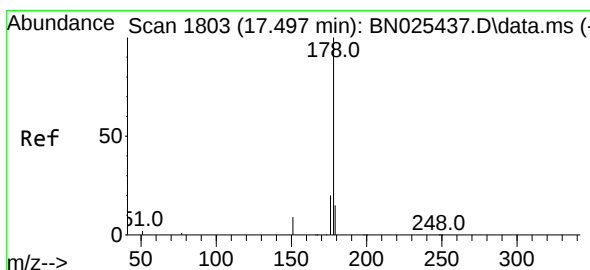
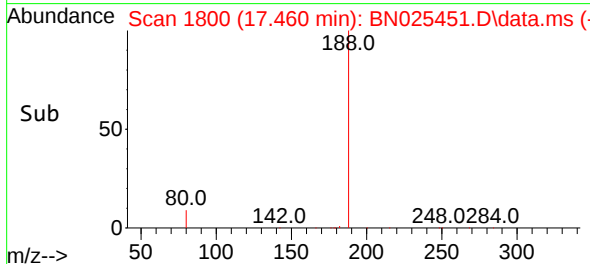
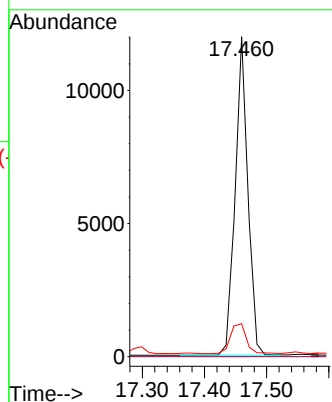
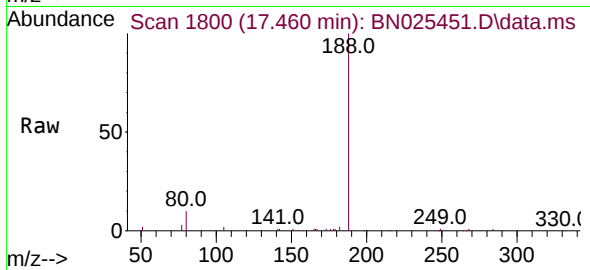
Tgt Ion:188 Resp: 17009

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 10.3 8.7 13.1



#25

Phenanthrene

Concen: 12.551 ng

RT: 17.497 min Scan# 1803

Delta R.T. 0.000 min

Lab File: BN025451.D

Acq: 17 May 2023 12:03

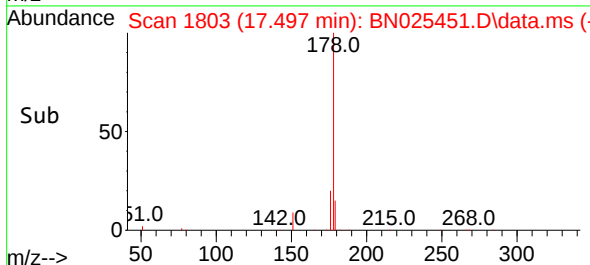
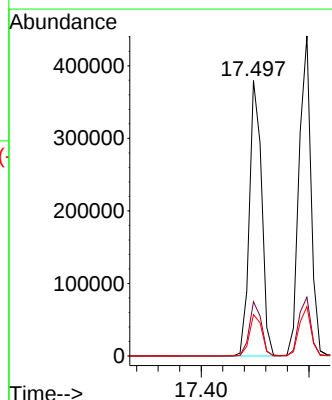
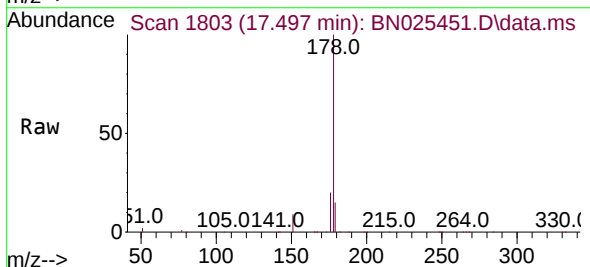
Tgt Ion:178 Resp: 600710

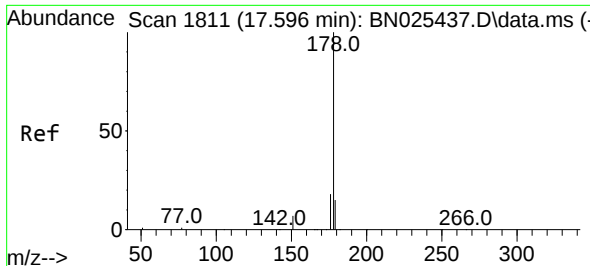
Ion Ratio Lower Upper

178 100

176 19.4 15.6 23.4

179 15.3 12.2 18.4

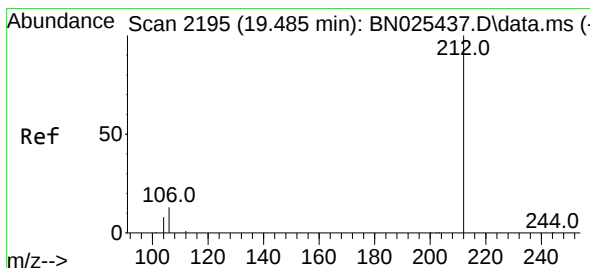
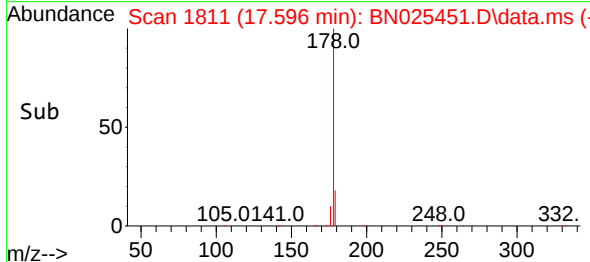
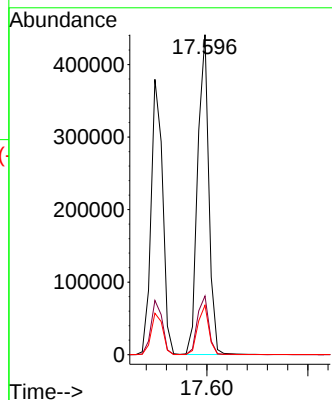
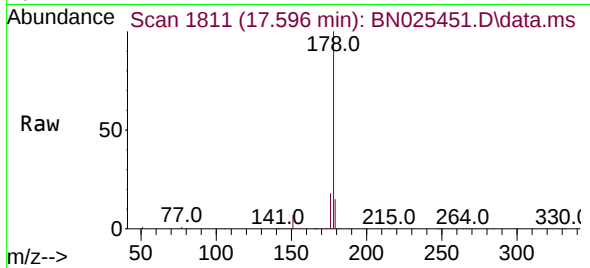




#26
 Anthracene
 Concen: 14.580 ng
 RT: 17.596 min Scan# 1811
 Delta R.T. 0.000 min
 Lab File: BN025451.D
 Acq: 17 May 2023 12:03

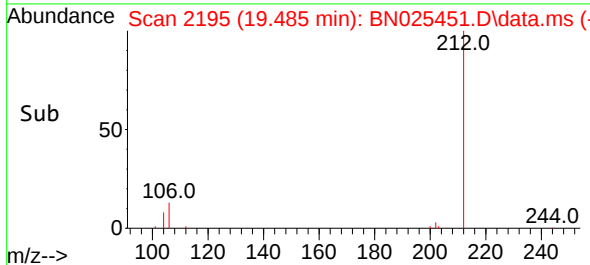
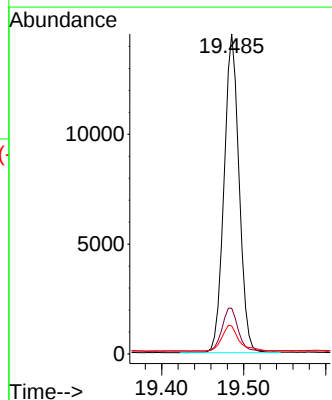
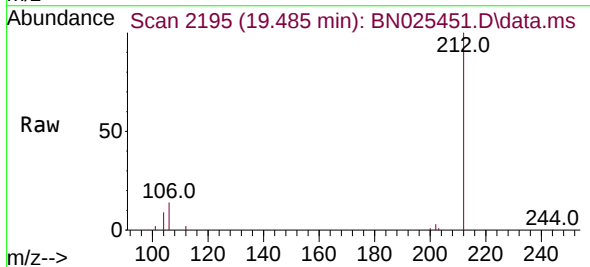
Instrument :
 BNA_N
 ClientSampleId :
 PT-PAH-SOIL

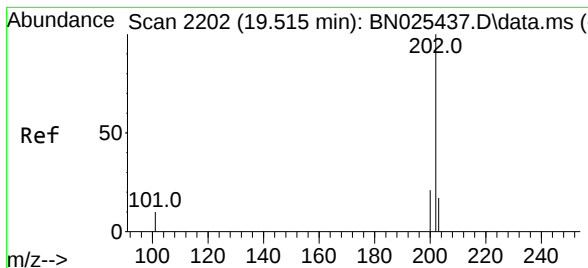
Tgt Ion:178 Resp: 675434
 Ion Ratio Lower Upper
 178 100
 176 18.7 14.9 22.3
 179 15.4 12.1 18.1



#27
 Fluoranthene-d10
 Concen: 0.455 ng
 RT: 19.485 min Scan# 2195
 Delta R.T. 0.000 min
 Lab File: BN025451.D
 Acq: 17 May 2023 12:03

Tgt Ion:212 Resp: 18386
 Ion Ratio Lower Upper
 212 100
 106 14.3 11.1 16.7
 104 9.2 6.6 10.0





#28

Fluoranthene

Concen: 3.191 ng

RT: 19.515 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN025451.D

Acq: 17 May 2023 12:03

Instrument :

BNA_N

ClientSampleId :

PT-PAH-SOIL

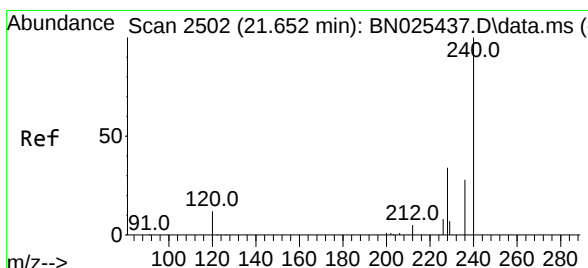
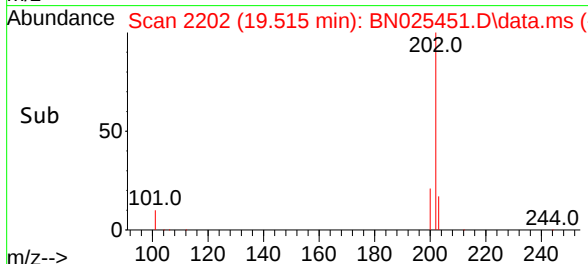
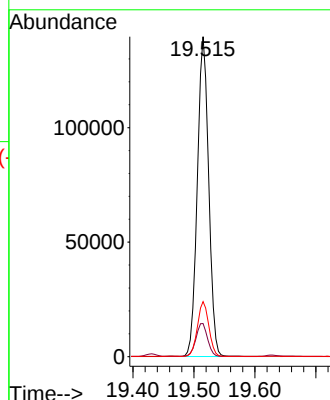
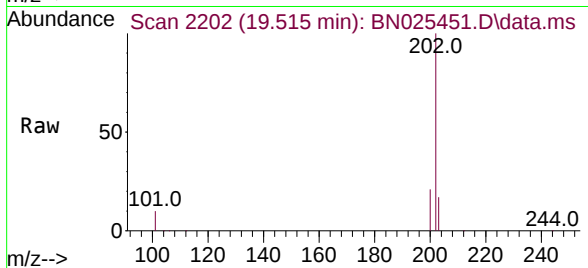
Tgt Ion:202 Resp: 180785

Ion Ratio Lower Upper

202 100

101 10.6 8.6 13.0

203 17.1 13.9 20.9



#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.643 min Scan# 2501

Delta R.T. -0.009 min

Lab File: BN025451.D

Acq: 17 May 2023 12:03

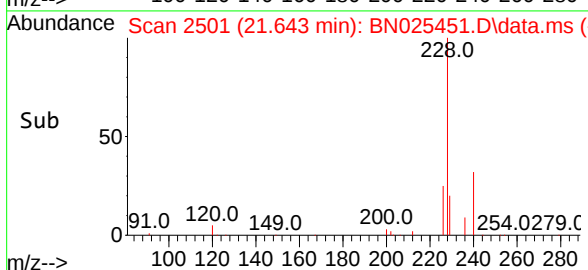
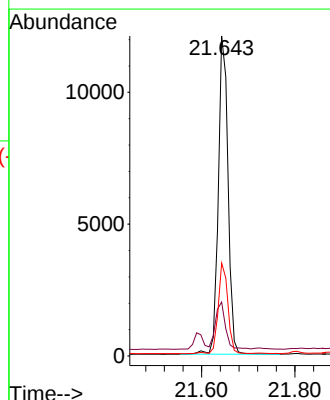
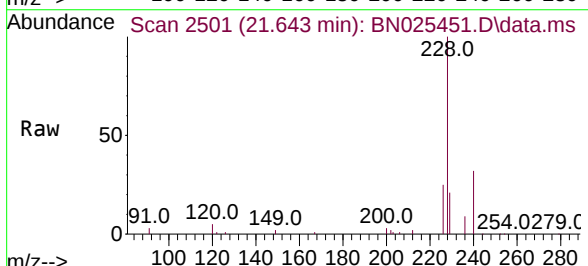
Tgt Ion:240 Resp: 17368

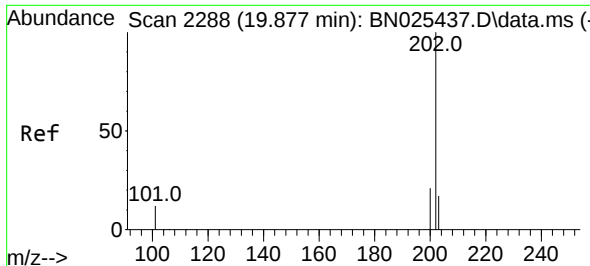
Ion Ratio Lower Upper

240 100

120 16.9 11.6 17.4

236 29.0 22.9 34.3

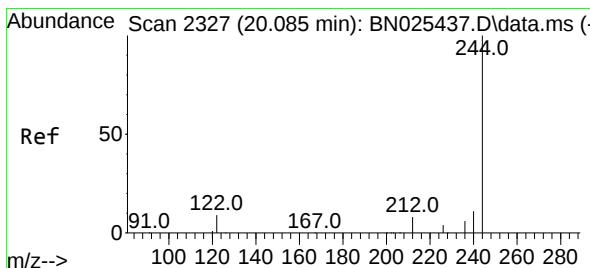
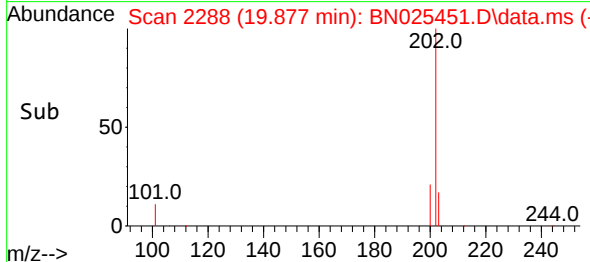
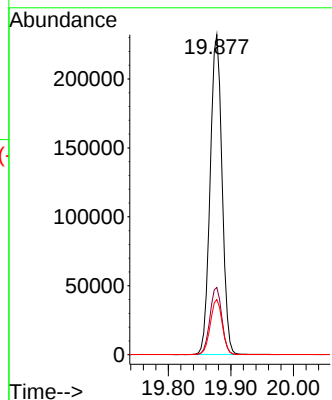
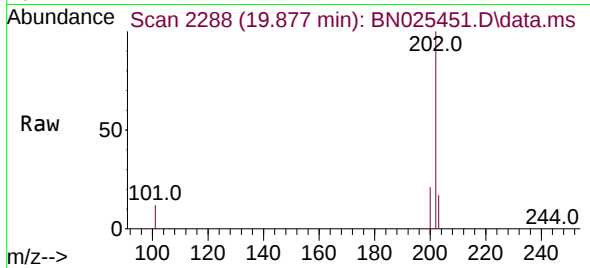




#30
Pyrene
Concen: 4.621 ng
RT: 19.877 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN025451.D
Acq: 17 May 2023 12:03

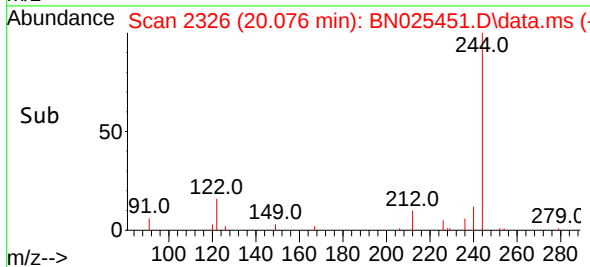
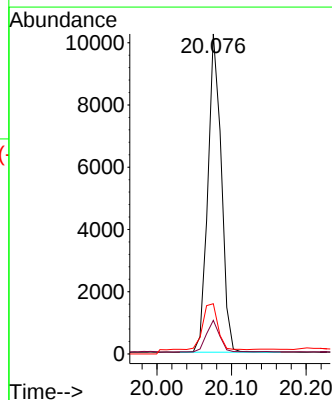
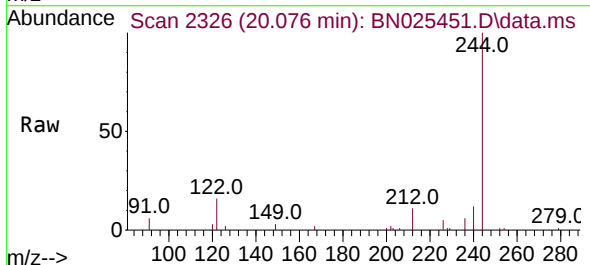
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BNA_N
ClientSampleId :
PT-PAH-SOIL

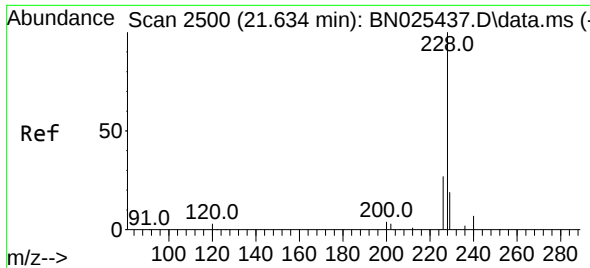
Tgt Ion:202 Resp: 306420
Ion Ratio Lower Upper
202 100
200 21.1 17.0 25.4
203 17.3 14.2 21.4



#31
Terphenyl-d14
Concen: 0.403 ng
RT: 20.076 min Scan# 2326
Delta R.T. -0.009 min
Lab File: BN025451.D
Acq: 17 May 2023 12:03

Tgt Ion:244 Resp: 12726
Ion Ratio Lower Upper
244 100
212 10.5 6.9 10.3#
122 15.7 7.4 11.2#

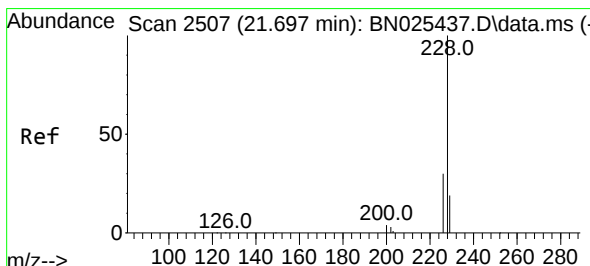
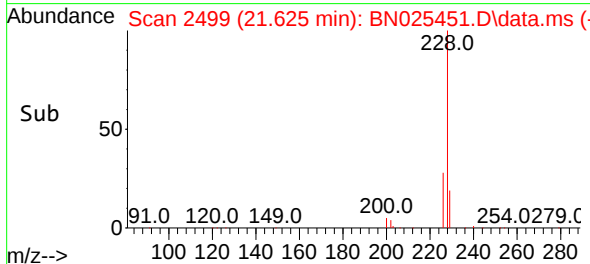
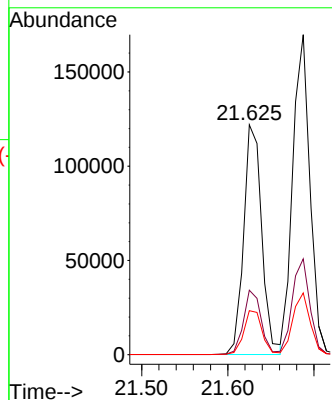
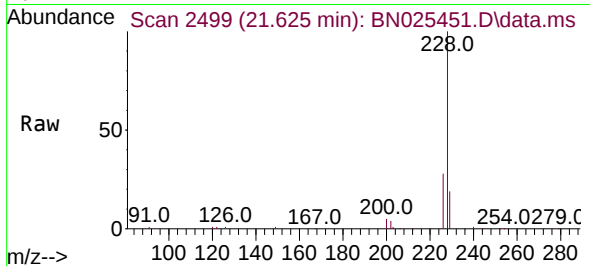




#32
Benzo(a)anthracene
Concen: 2.928 ng
RT: 21.625 min Scan# 2499
Delta R.T. -0.009 min
Lab File: BN025451.D
Acq: 17 May 2023 12:03

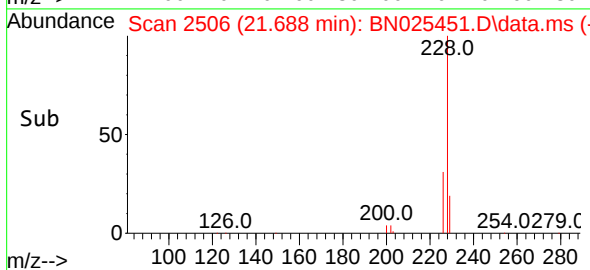
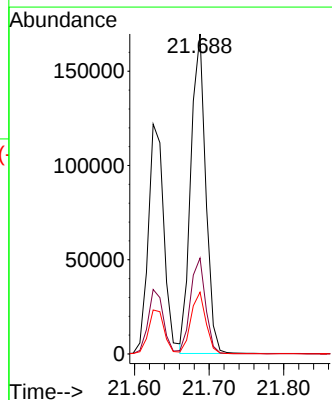
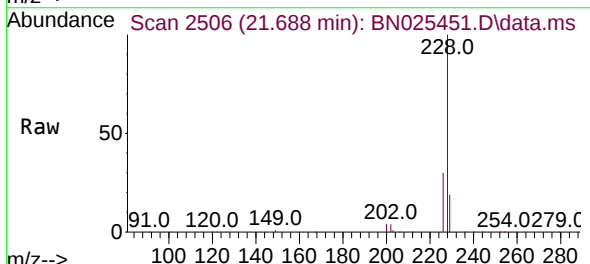
Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOIL

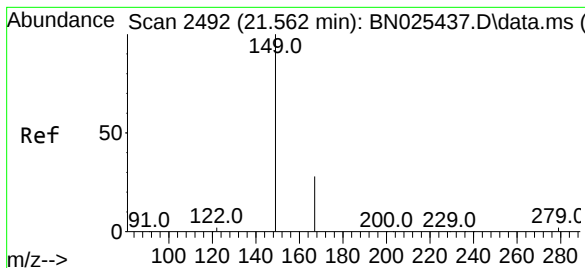
Tgt Ion:228 Resp: 178589
Ion Ratio Lower Upper
228 100
226 28.1 22.1 33.1
229 19.1 15.4 23.2



#33
Chrysene
Concen: 3.879 ng
RT: 21.688 min Scan# 2506
Delta R.T. -0.009 min
Lab File: BN025451.D
Acq: 17 May 2023 12:03

Tgt Ion:228 Resp: 235051
Ion Ratio Lower Upper
228 100
226 29.9 23.9 35.9
229 19.3 15.8 23.6

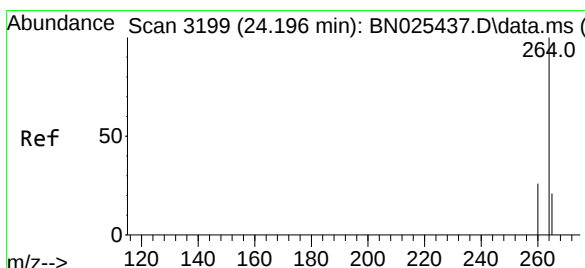
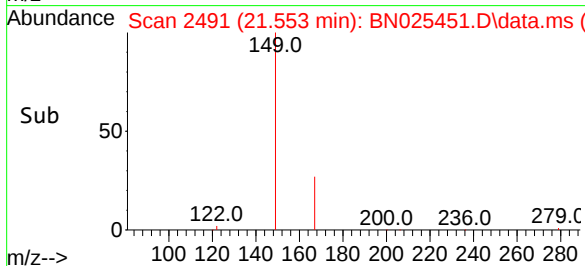
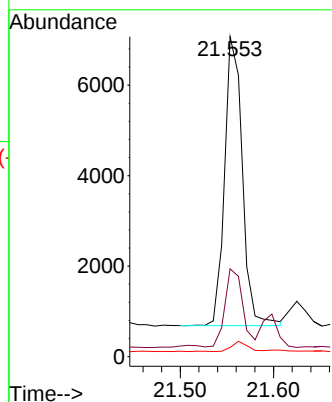
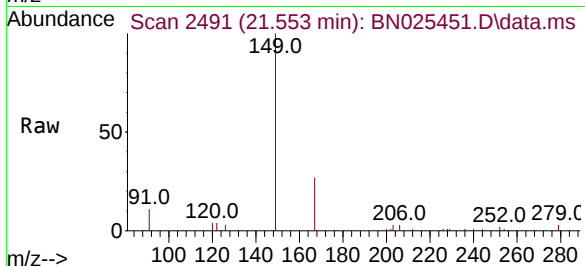




#34
 Bis(2-ethylhexyl)phthalate
 Concen: 0.236 ng
 RT: 21.553 min Scan# 2491
 Delta R.T. -0.009 min
 Lab File: BN025451.D
 Acq: 17 May 2023 12:03

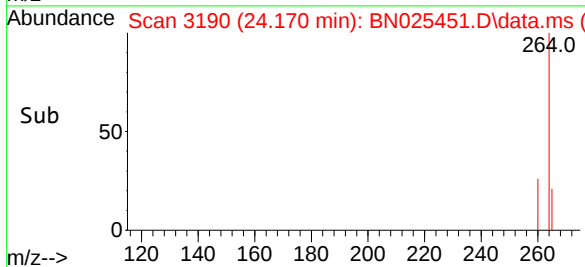
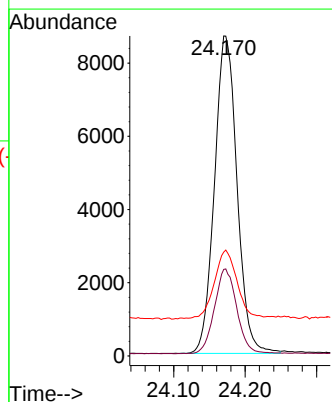
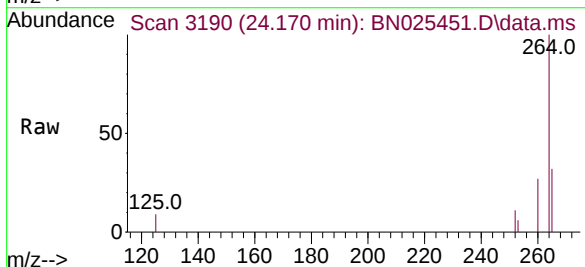
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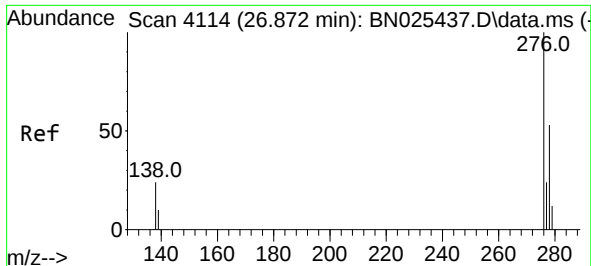
Tgt Ion:149 Resp: 8419
 Ion Ratio Lower Upper
 149 100
 167 27.1 22.2 33.4
 279 3.1 2.5 3.7



#35
 Perylene-d12
 Concen: 0.400 ng
 RT: 24.170 min Scan# 3190
 Delta R.T. -0.026 min
 Lab File: BN025451.D
 Acq: 17 May 2023 12:03

Tgt Ion:264 Resp: 18986
 Ion Ratio Lower Upper
 264 100
 260 27.0 21.0 31.6
 265 32.4 25.5 38.3

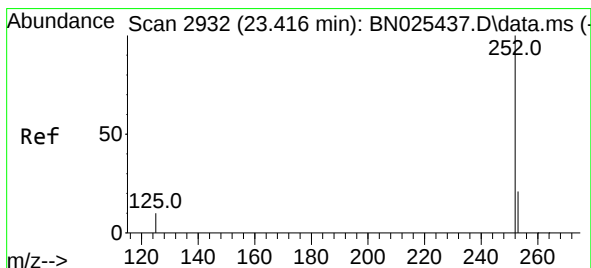
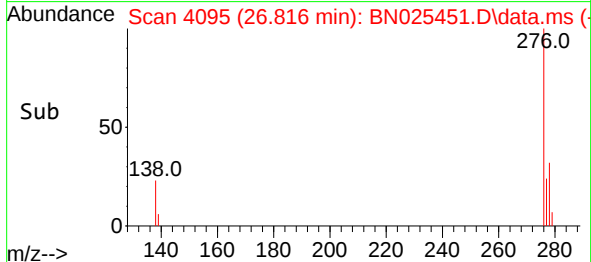
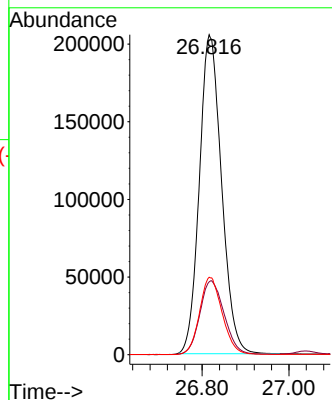
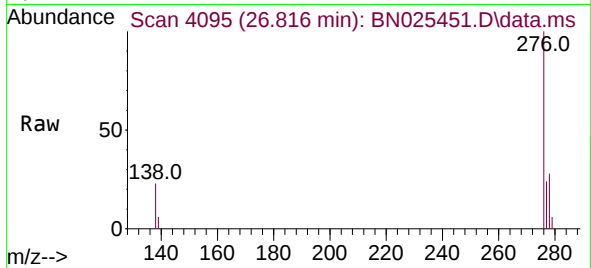




#36
 Indeno(1,2,3-cd)pyrene
 Concen: 9.492 ng
 RT: 26.816 min Scan# 4095
 Delta R.T. -0.056 min
 Lab File: BN025451.D
 Acq: 17 May 2023 12:03

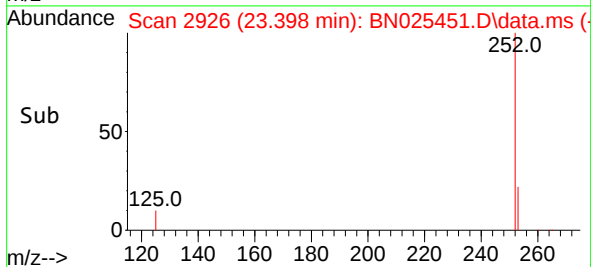
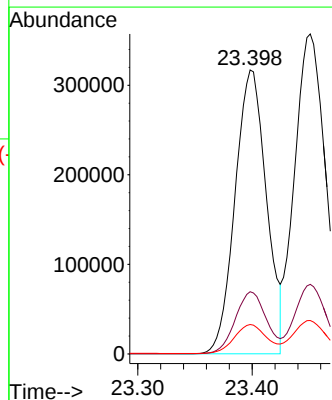
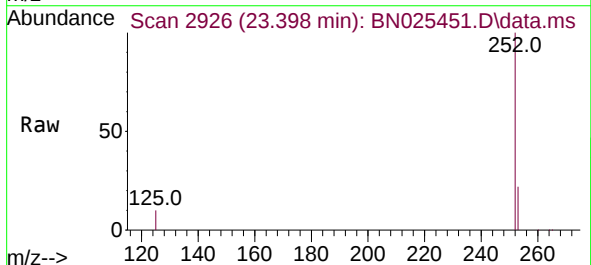
Instrument :
 BNA_N
 ClientSampleId :
 PT-PAH-SOIL

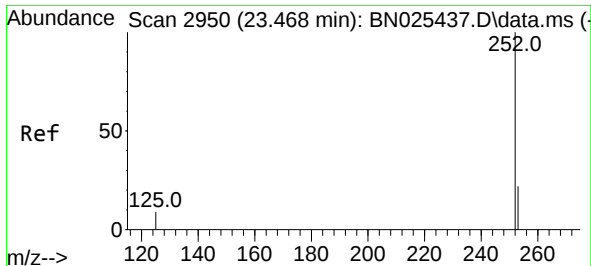
Tgt Ion:276 Resp: 728228
 Ion Ratio Lower Upper
 276 100
 138 25.1 21.0 31.6
 277 24.6 19.8 29.6



#37
 Benzo(b)fluoranthene
 Concen: 9.068 ng
 RT: 23.398 min Scan# 2926
 Delta R.T. -0.018 min
 Lab File: BN025451.D
 Acq: 17 May 2023 12:03

Tgt Ion:252 Resp: 603445
 Ion Ratio Lower Upper
 252 100
 253 21.9 19.0 28.4
 125 10.3 9.4 14.2

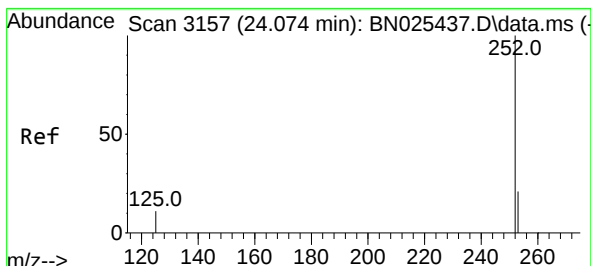
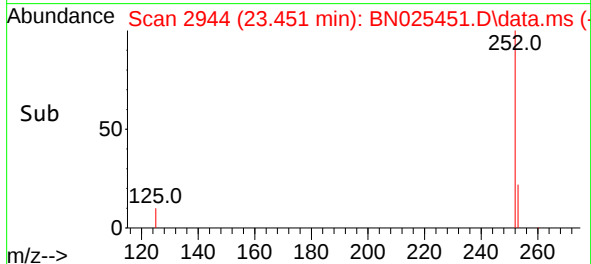
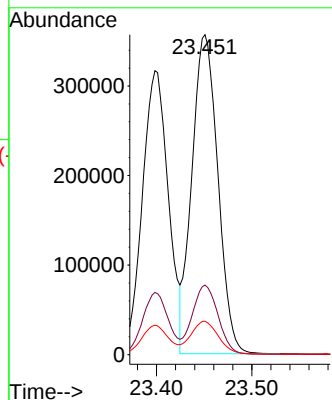
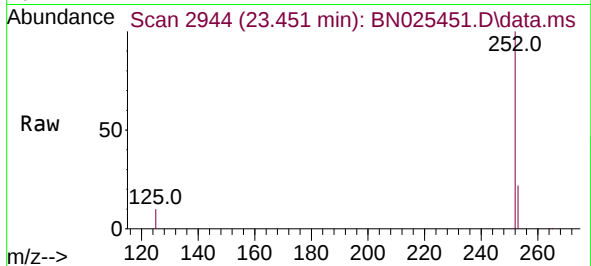




#38
Benzo(k)fluoranthene
Concen: 9.865 ng
RT: 23.451 min Scan# 2944
Delta R.T. -0.018 min
Lab File: BN025451.D
Acq: 17 May 2023 12:03

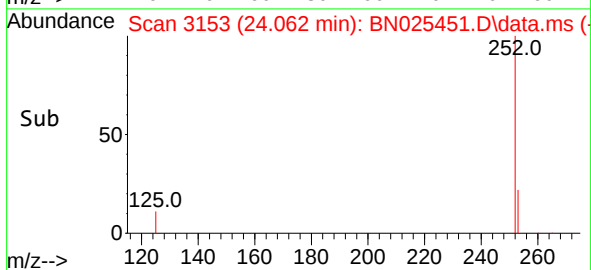
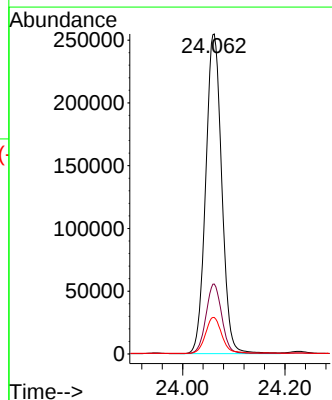
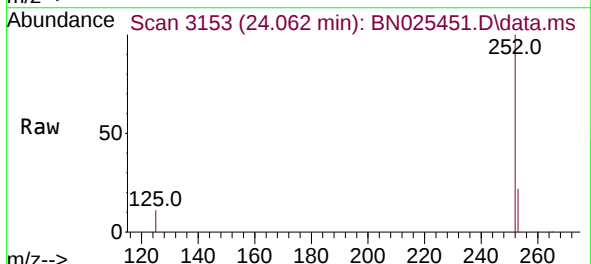
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PT-PAH-SOIL

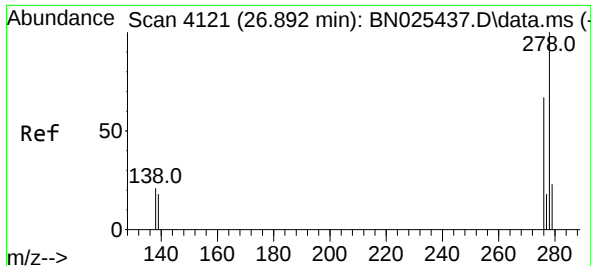
Tgt Ion:252 Resp: 674363
Ion Ratio Lower Upper
252 100
253 21.8 19.1 28.7
125 10.4 9.5 14.3



#39
Benzo(a)pyrene
Concen: 8.737 ng
RT: 24.062 min Scan# 3153
Delta R.T. -0.012 min
Lab File: BN025451.D
Acq: 17 May 2023 12:03

Tgt Ion:252 Resp: 553846
Ion Ratio Lower Upper
252 100
253 21.8 19.5 29.3
125 11.4 10.2 15.4

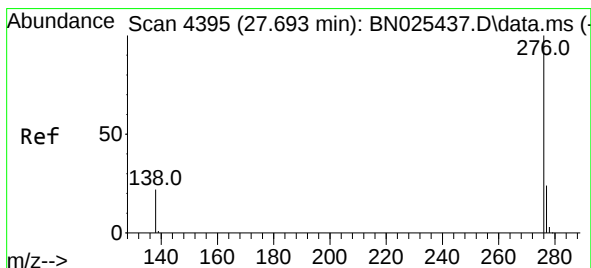
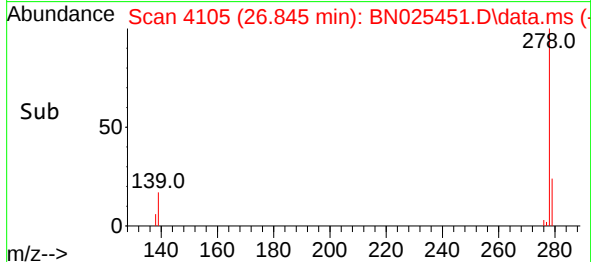
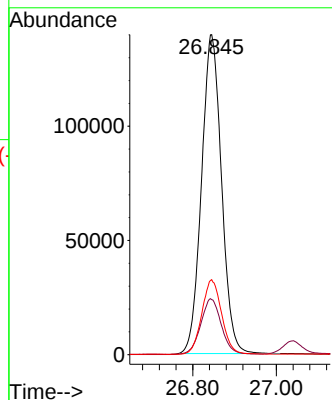
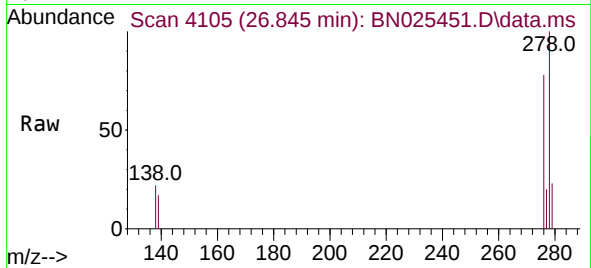




#40
Dibenzo(a,h)anthracene
Concen: 7.524 ng
RT: 26.845 min Scan# 41
Delta R.T. -0.047 min
Lab File: BN025451.D
Acq: 17 May 2023 12:03

Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOIL

Tgt Ion:278 Resp: 463715
Ion Ratio Lower Upper
278 100
139 17.2 15.0 22.4
279 23.5 20.1 30.1



#41
Benzo(g,h,i)perylene
Concen: 11.348 ng
RT: 27.632 min Scan# 4374
Delta R.T. -0.061 min
Lab File: BN025451.D
Acq: 17 May 2023 12:03

Tgt Ion:276 Resp: 737733
Ion Ratio Lower Upper
276 100
277 23.5 19.6 29.4
138 22.6 19.0 28.6

