

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051222\
 Data File : BN019747.D
 Acq On : 12 May 2022 11:25
 Operator : CG/JU
 Sample : N2656-14
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PT-PAH-SOIL

Quant Time: May 13 06:15:55 2022
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\8270-SIM-BN050922.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue May 10 01:35:26 2022
 Response via : Initial Calibration

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

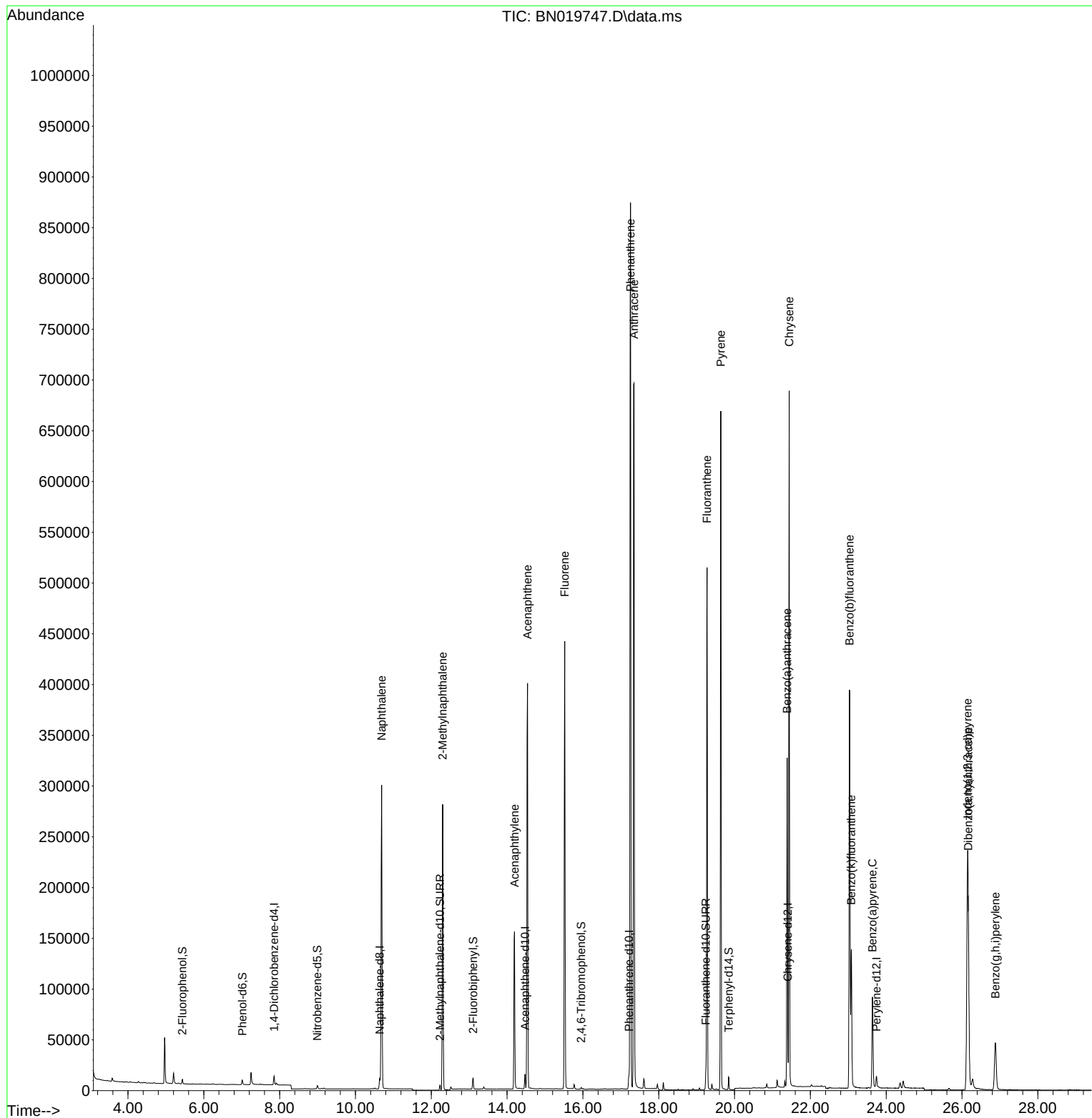
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.854	152	4296	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	13669	0.400	ng	-0.01
13) Acenaphthene-d10	14.474	164	8166	0.400	ng	0.00
19) Phenanthrene-d10	17.215	188	18038	0.400	ng	# 0.00
29) Chrysene-d12	21.404	240	17772	0.400	ng	# 0.00
35) Perylene-d12	23.743	264	15830	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.435	112	3523	0.363	ng	0.00
5) Phenol-d6	7.016	99	4505	0.368	ng	0.00
8) Nitrobenzene-d5	8.992	82	2803	0.245	ng	-0.01
11) 2-Methylnaphthalene-d10	12.227	152	7234	0.309	ng	0.00
14) 2,4,6-Tribromophenol	15.953	330	911	0.307	ng	-0.01
15) 2-Fluorobiphenyl	13.105	172	10086	0.274	ng	0.00
27) Fluoranthene-d10	19.244	212	20270	0.390	ng	0.00
31) Terphenyl-d14	19.843	244	13411	0.325	ng	0.00
Target Compounds						
						Qvalue
9) Naphthalene	10.690	128	394071	9.443	ng	99
12) 2-Methylnaphthalene	12.299	142	202261	7.230	ng	99
16) Acenaphthylene	14.196	152	187819	4.570	ng	99
17) Acenaphthene	14.538	154	214292	7.471	ng	97
18) Fluorene	15.521	166	278336	7.642	ng	100
25) Phenanthrene	17.256	178	971063	15.198	ng	100
26) Anthracene	17.348	178	821595	15.557	ng	100
28) Fluoranthene	19.274	202	457088	6.704	ng	99
30) Pyrene	19.636	202	600785	7.948	ng	100
32) Benzo(a)anthracene	21.386	228	269756	4.196	ng	100
33) Chrysene	21.440	228	554864	7.397	ng	100
36) Indeno(1,2,3-cd)pyrene	26.144	276	356980	4.454	ng	95
37) Benzo(b)fluoranthene	23.033	252	530037	7.455	ng	95
38) Benzo(k)fluoranthene	23.080	252	170245	2.304	ng	96
39) Benzo(a)pyrene	23.638	252	134799	2.452	ng	# 92
40) Dibenzo(a,h)anthracene	26.164	278	180571	2.753	ng	96
41) Benzo(g,h,i)perylene	26.880	276	101322	1.483	ng	97

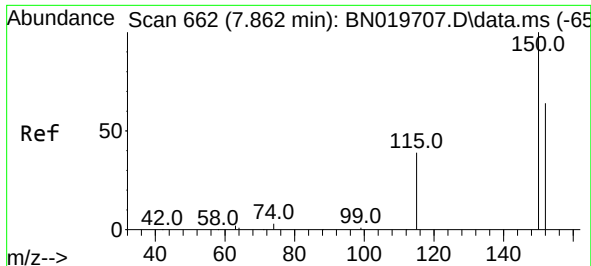
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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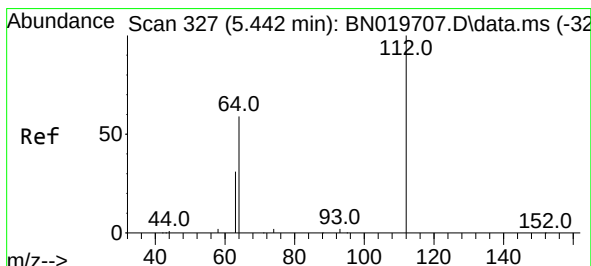
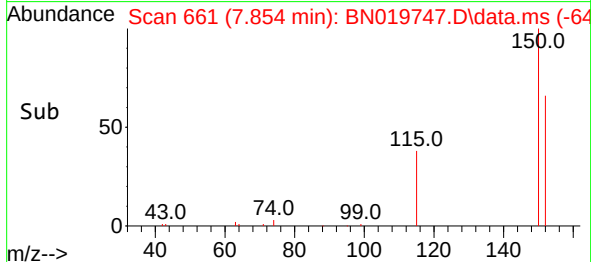
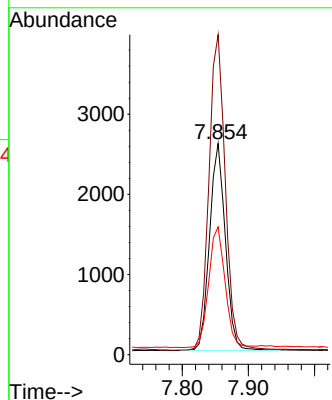
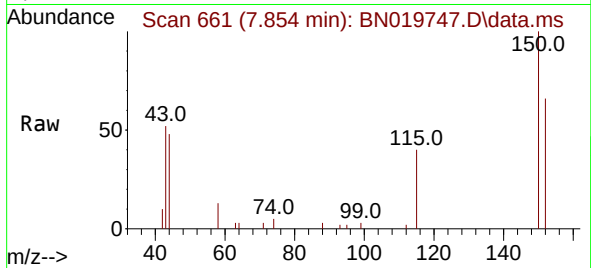




#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.854 min Scan# 661
 Delta R.T. -0.008 min
 Lab File: BN019747.D
 Acq: 12 May 2022 11:25

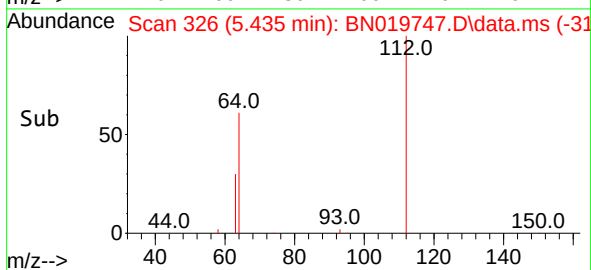
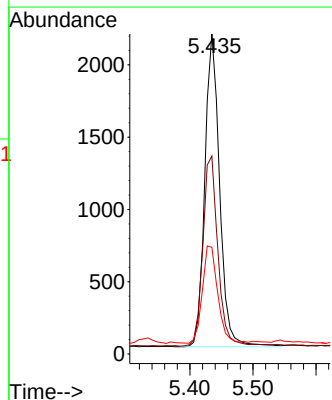
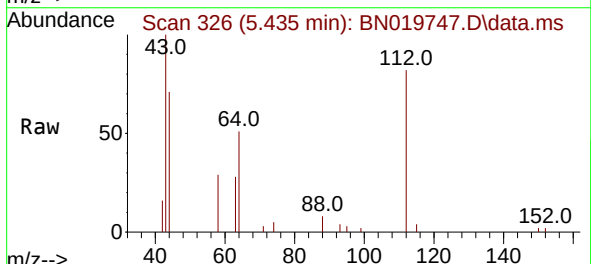
Instrument :
 BNA_N
 ClientSampleId :
 PT-PAH-SOIL

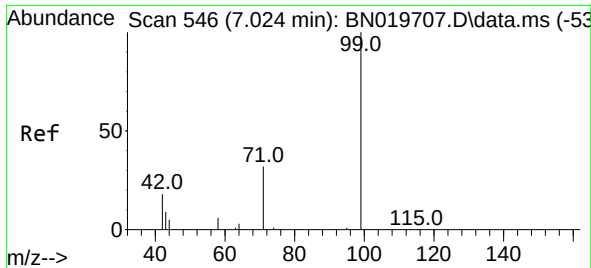
Tgt Ion:152 Resp: 4296
 Ion Ratio Lower Upper
 152 100
 150 151.6 125.0 187.4
 115 60.5 50.6 76.0



#4
 2-Fluorophenol
 Concen: 0.363 ng
 RT: 5.435 min Scan# 326
 Delta R.T. -0.008 min
 Lab File: BN019747.D
 Acq: 12 May 2022 11:25

Tgt Ion:112 Resp: 3523
 Ion Ratio Lower Upper
 112 100
 64 62.0 49.1 73.7
 63 32.0 26.4 39.6

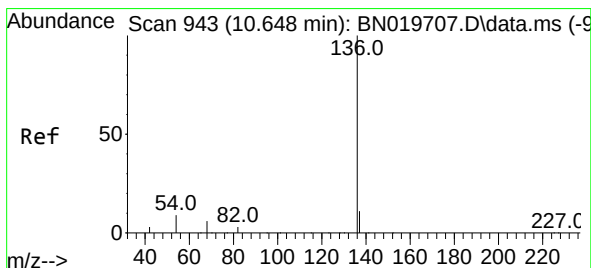
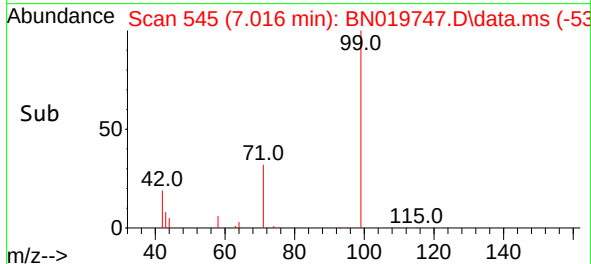
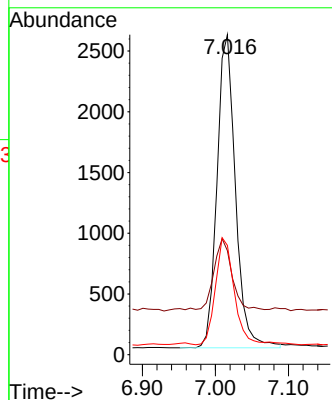
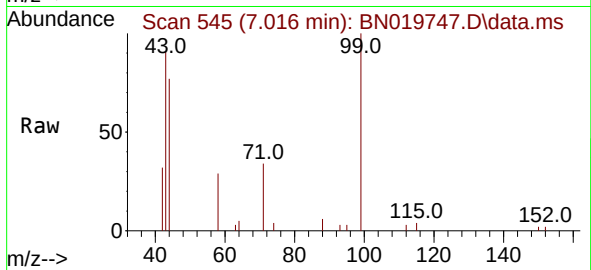




#5
Phenol-d6
Concen: 0.368 ng
RT: 7.016 min Scan# 546
Delta R.T. -0.008 min
Lab File: BN019747.D
Acq: 12 May 2022 11:25

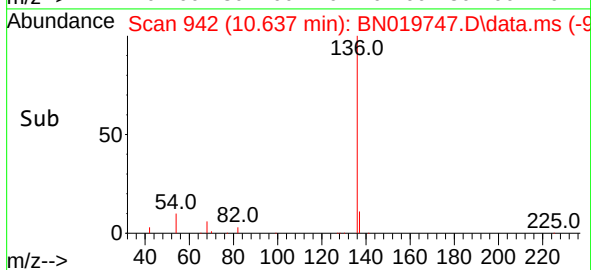
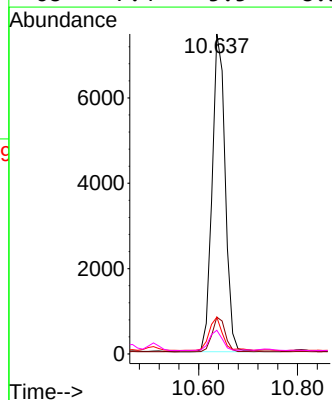
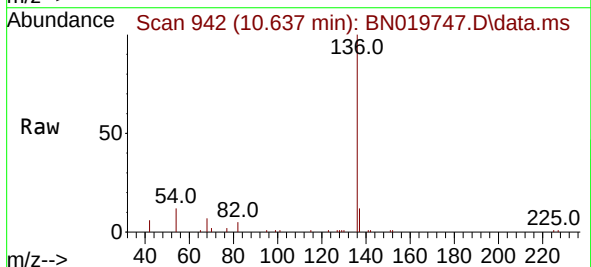
Instrument :
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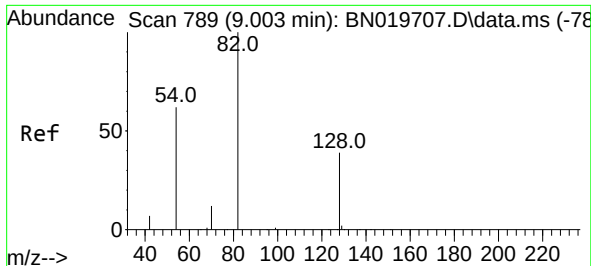
Tgt Ion:	99	Resp:	4505
Ion	Ratio	Lower	Upper
99	100		
42	22.2	19.6	29.4
71	35.0	27.3	40.9



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 942
Delta R.T. -0.011 min
Lab File: BN019747.D
Acq: 12 May 2022 11:25

Tgt Ion:	136	Resp:	13669
Ion	Ratio	Lower	Upper
136	100		
137	11.5	9.1	13.7
54	11.5	8.2	12.4
68	7.4	5.5	8.3

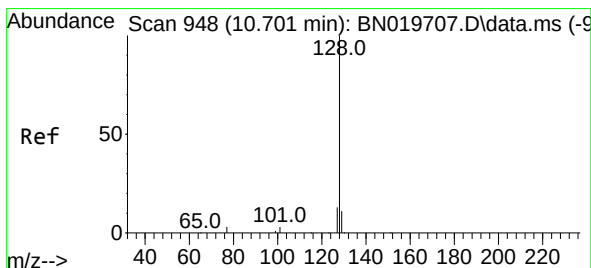
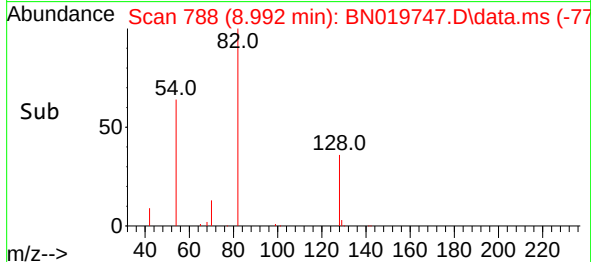
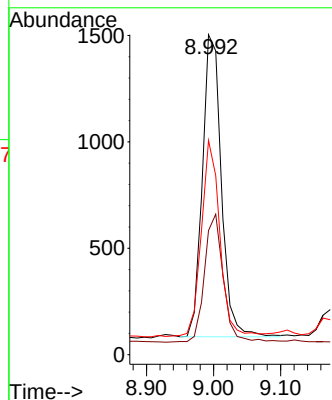
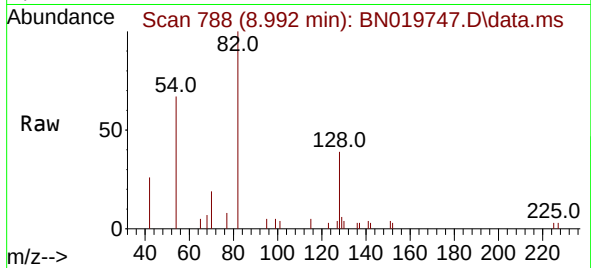




#8
Nitrobenzene-d5
Concen: 0.245 ng
RT: 8.992 min Scan# 789
Delta R.T. -0.011 min
Lab File: BN019747.D
Acq: 12 May 2022 11:25

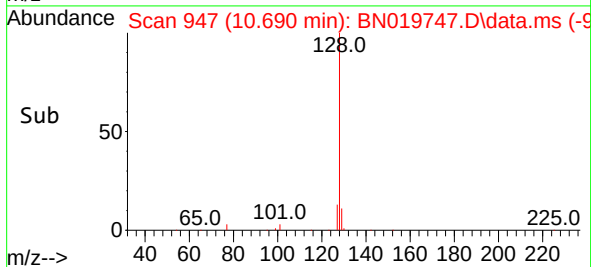
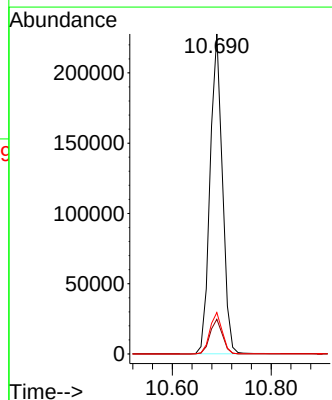
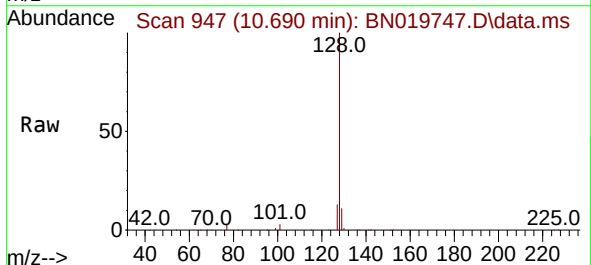
Instrument :
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PT-PAH-SOIL

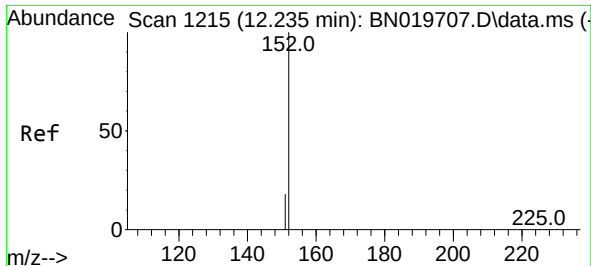
Tgt Ion: 82 Resp: 2803
Ion Ratio Lower Upper
82 100
128 38.8 32.4 48.6
54 67.0 50.7 76.1



#9
Naphthalene
Concen: 9.443 ng
RT: 10.690 min Scan# 947
Delta R.T. -0.011 min
Lab File: BN019747.D
Acq: 12 May 2022 11:25

Tgt Ion: 128 Resp: 394071
Ion Ratio Lower Upper
128 100
129 10.8 9.0 13.6
127 13.0 10.7 16.1

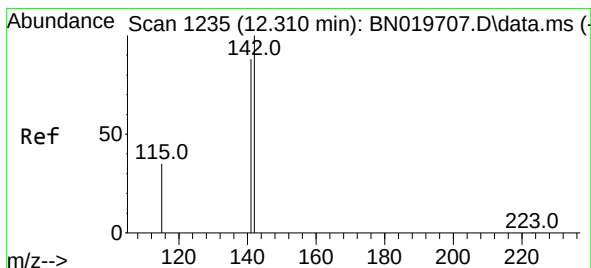
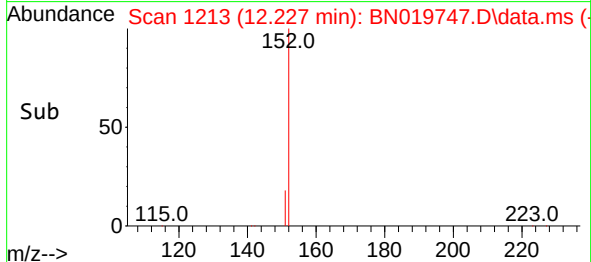
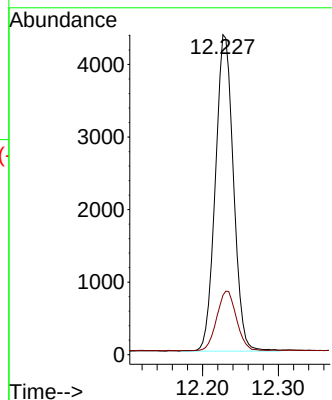
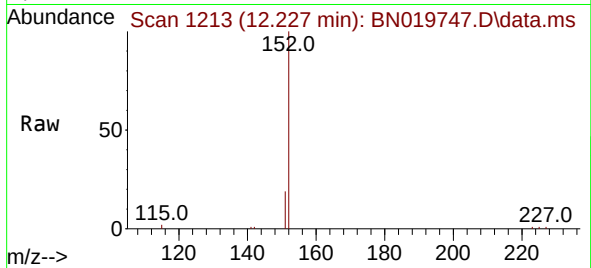




#11
2-Methylnaphthalene-d10
Concen: 0.309 ng
RT: 12.227 min Scan# 11
Delta R.T. -0.008 min
Lab File: BN019747.D
Acq: 12 May 2022 11:25

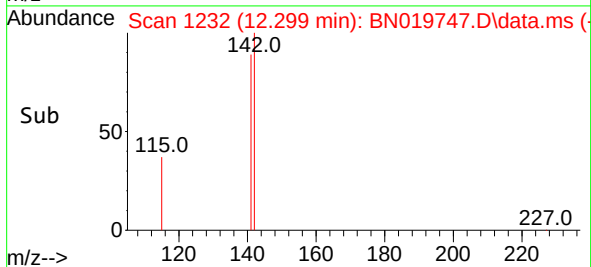
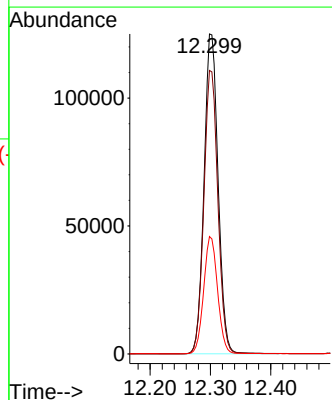
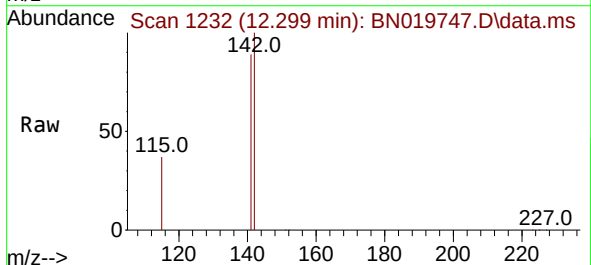
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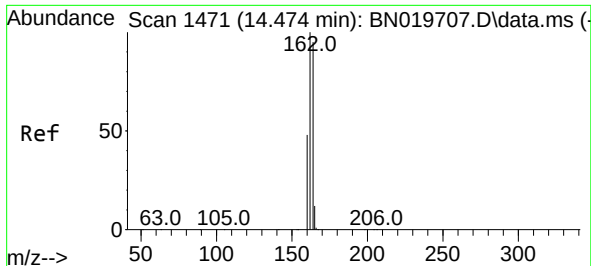
Tgt Ion:152 Resp: 7234
Ion Ratio Lower Upper
152 100
151 20.5 16.4 24.6



#12
2-Methylnaphthalene
Concen: 7.230 ng
RT: 12.299 min Scan# 1232
Delta R.T. -0.012 min
Lab File: BN019747.D
Acq: 12 May 2022 11:25

Tgt Ion:142 Resp: 202261
Ion Ratio Lower Upper
142 100
141 88.6 70.1 105.1
115 36.7 28.8 43.2

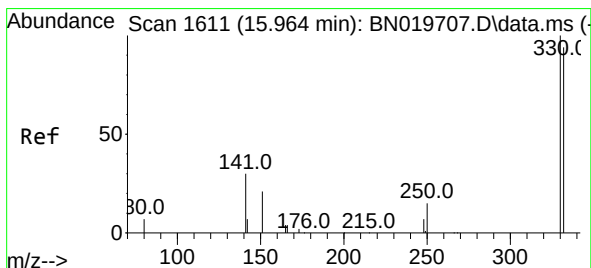
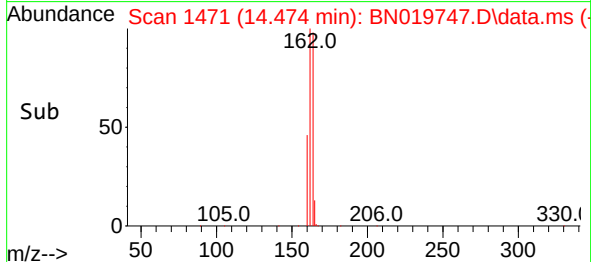
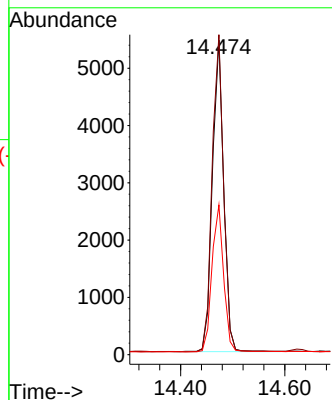
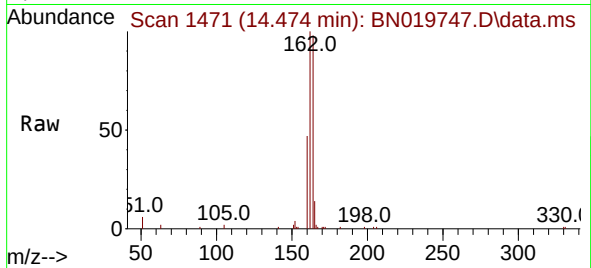




#13
 Acenaphthene-d10
 Concen: 0.400 ng
 RT: 14.474 min Scan# 1471
 Delta R.T. -0.000 min
 Lab File: BN019747.D
 Acq: 12 May 2022 11:25

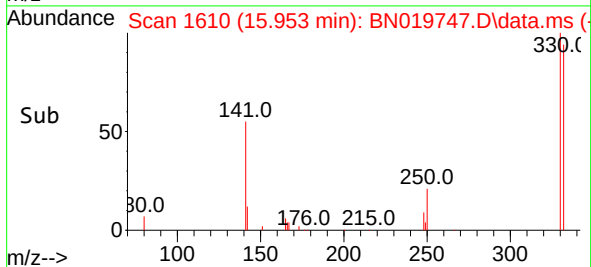
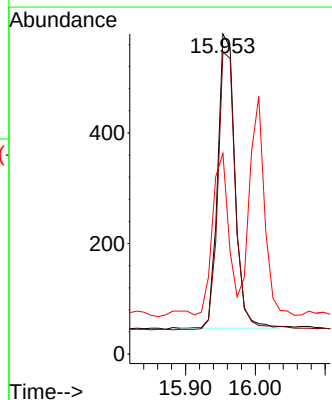
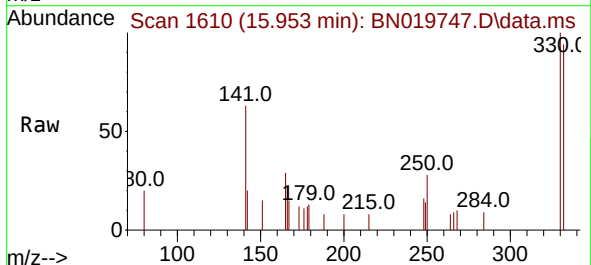
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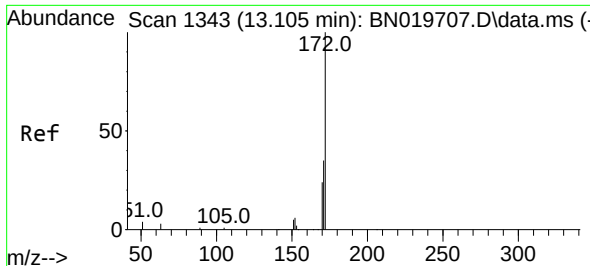
Tgt Ion:164 Resp: 8166
 Ion Ratio Lower Upper
 164 100
 162 101.7 84.0 126.0
 160 47.6 41.1 61.7



#14
 2,4,6-Tribromophenol
 Concen: 0.307 ng
 RT: 15.953 min Scan# 1610
 Delta R.T. -0.011 min
 Lab File: BN019747.D
 Acq: 12 May 2022 11:25

Tgt Ion:330 Resp: 911
 Ion Ratio Lower Upper
 330 100
 332 97.4 75.7 113.5
 141 51.5 40.2 60.2

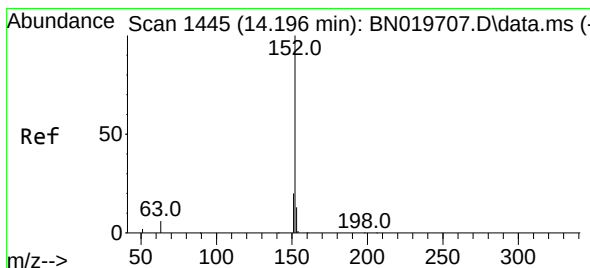
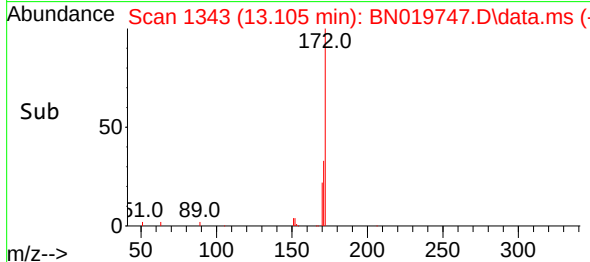
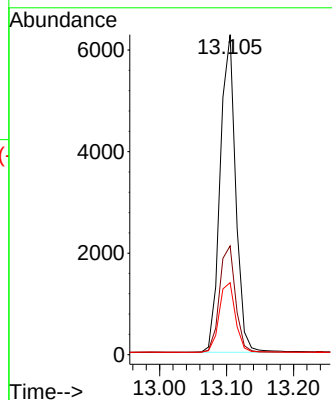
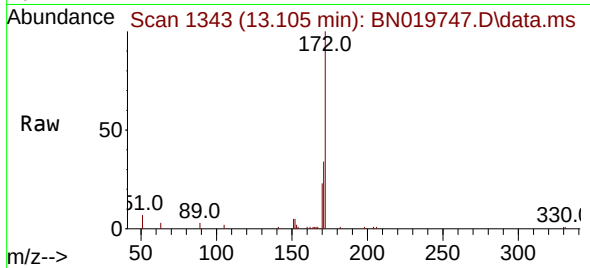




#15
2-Fluorobiphenyl
Concen: 0.274 ng
RT: 13.105 min Scan# 1343
Delta R.T. -0.000 min
Lab File: BN019747.D
Acq: 12 May 2022 11:25

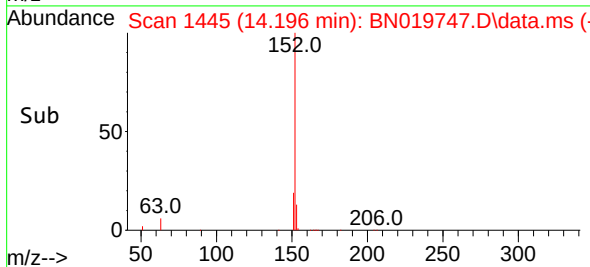
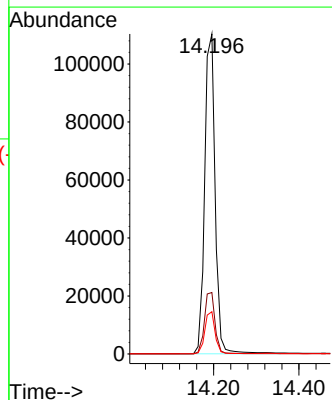
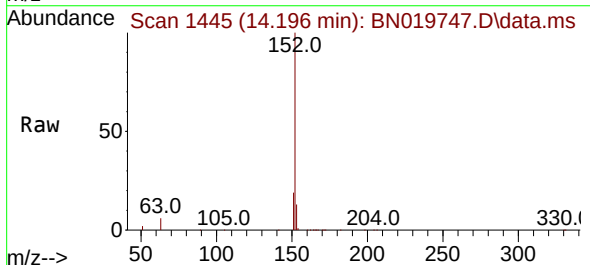
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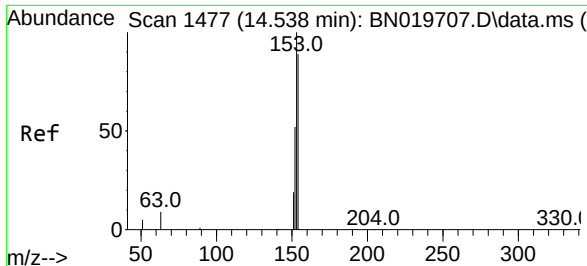
Tgt Ion:172 Resp: 10086
Ion Ratio Lower Upper
172 100
171 34.0 28.5 42.7
170 22.5 19.4 29.2



#16
Acenaphthylene
Concen: 4.570 ng
RT: 14.196 min Scan# 1445
Delta R.T. -0.000 min
Lab File: BN019747.D
Acq: 12 May 2022 11:25

Tgt Ion:152 Resp: 187819
Ion Ratio Lower Upper
152 100
151 19.5 15.4 23.2
153 13.1 10.0 15.0

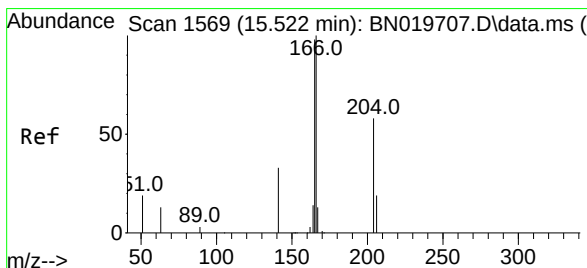
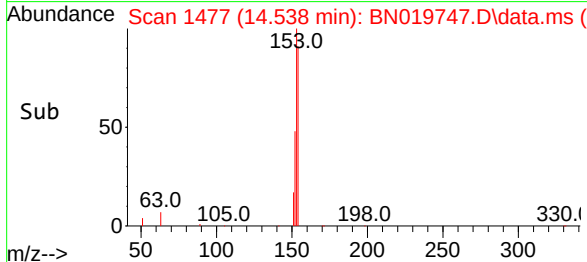
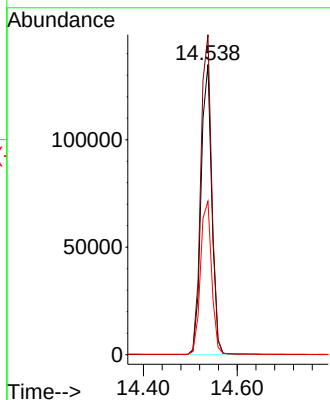
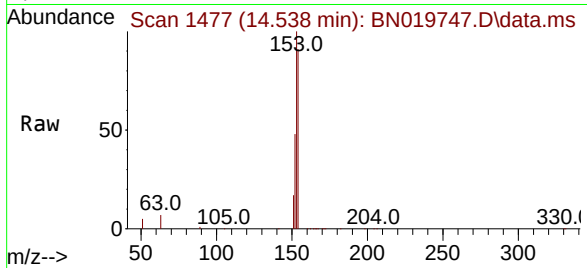




#17
Acenaphthene
Concen: 7.471 ng
RT: 14.538 min Scan# 1477
Delta R.T. -0.000 min
Lab File: BN019747.D
Acq: 12 May 2022 11:25

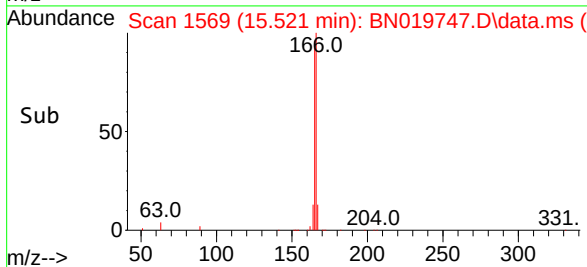
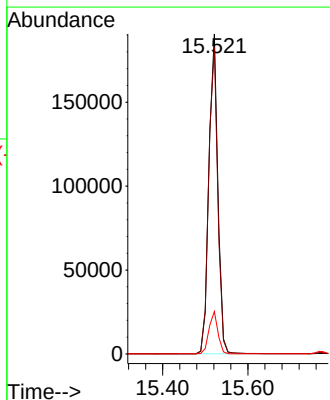
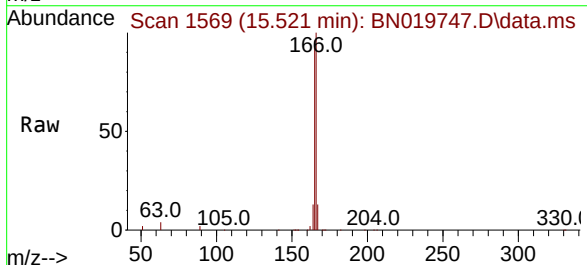
Instrument :
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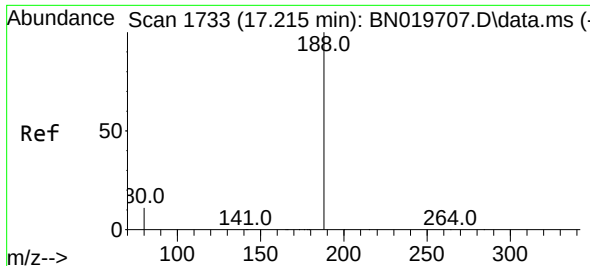
Tgt Ion:154 Resp: 214292
Ion Ratio Lower Upper
154 100
153 112.7 87.1 130.7
152 55.0 45.5 68.3



#18
Fluorene
Concen: 7.642 ng
RT: 15.521 min Scan# 1569
Delta R.T. -0.000 min
Lab File: BN019747.D
Acq: 12 May 2022 11:25

Tgt Ion:166 Resp: 278336
Ion Ratio Lower Upper
166 100
165 97.4 78.0 117.0
167 13.2 10.8 16.2

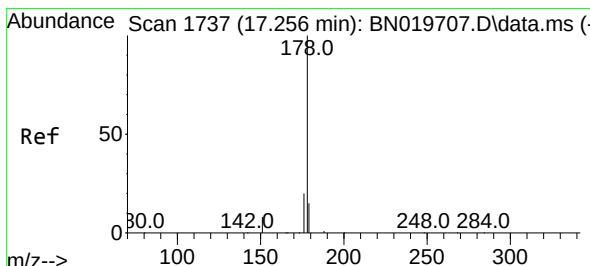
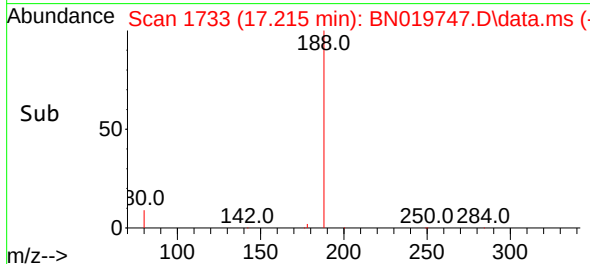
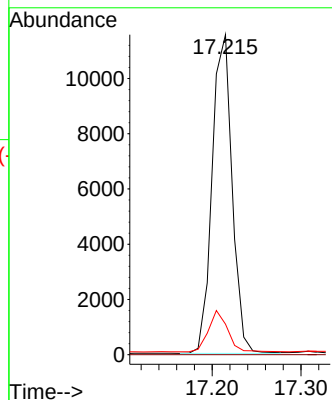
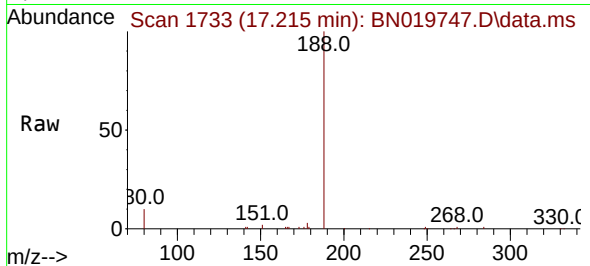




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.215 min Scan# 1733
Delta R.T. -0.000 min
Lab File: BN019747.D
Acq: 12 May 2022 11:25

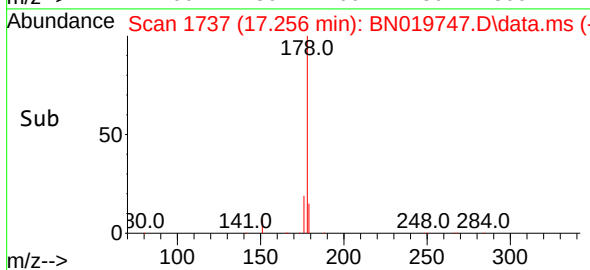
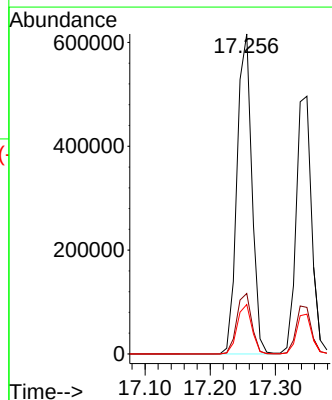
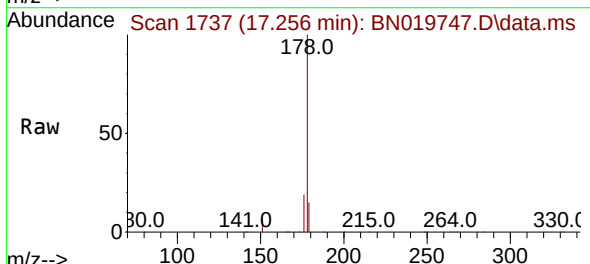
Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOIL

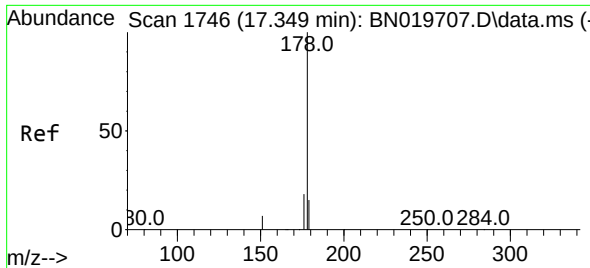
Tgt Ion:188 Resp: 18038
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 9.5 9.6 14.4#



#25
Phenanthrene
Concen: 15.198 ng
RT: 17.256 min Scan# 1737
Delta R.T. -0.000 min
Lab File: BN019747.D
Acq: 12 May 2022 11:25

Tgt Ion:178 Resp: 971063
Ion Ratio Lower Upper
178 100
176 19.1 15.4 23.2
179 15.3 12.2 18.2

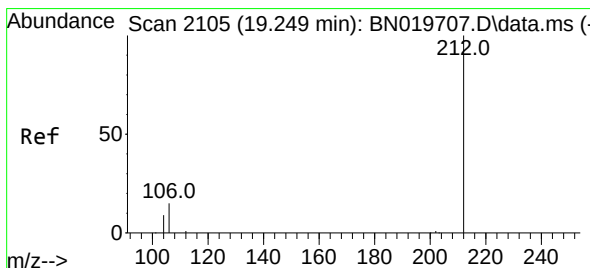
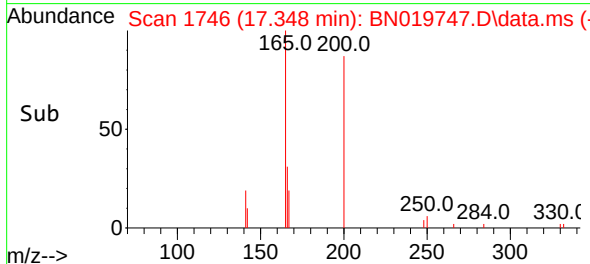
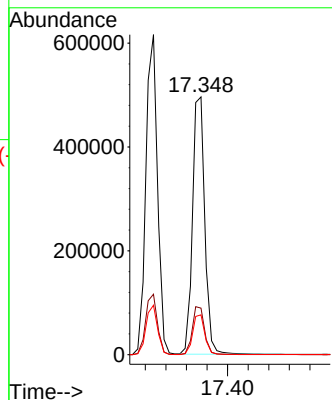
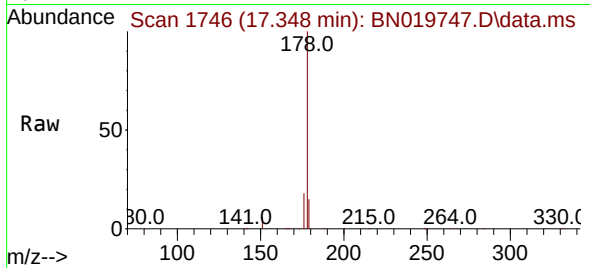




#26
 Anthracene
 Concen: 15.557 ng
 RT: 17.348 min Scan# 11
 Delta R.T. -0.000 min
 Lab File: BN019747.D
 Acq: 12 May 2022 11:25

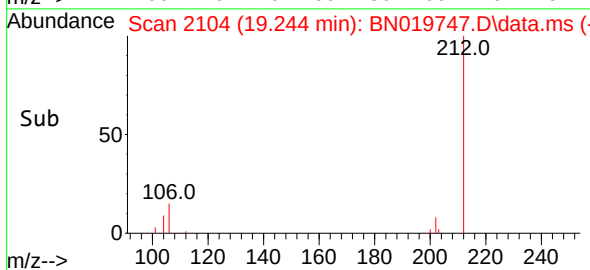
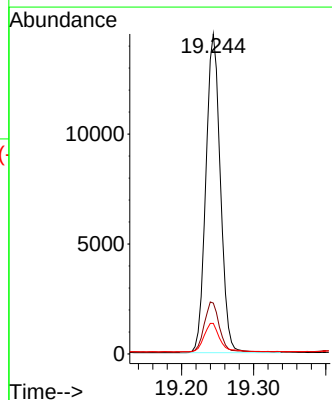
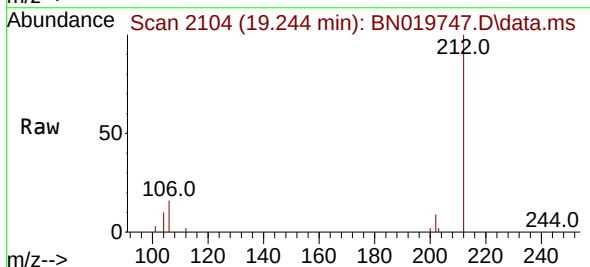
Instrument :
 BNA_N
 ClientSampleId :
 PT-PAH-SOIL

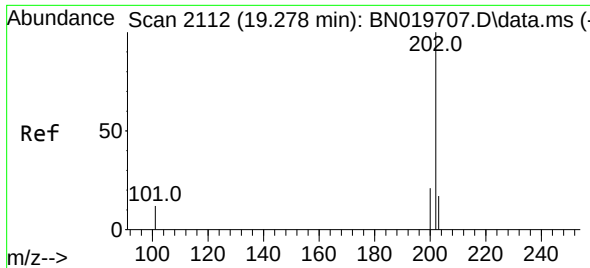
Tgt Ion:178 Resp: 821595
 Ion Ratio Lower Upper
 178 100
 176 18.5 14.8 22.2
 179 15.3 12.0 18.0



#27
 Fluoranthene-d10
 Concen: 0.390 ng
 RT: 19.244 min Scan# 2104
 Delta R.T. -0.005 min
 Lab File: BN019747.D
 Acq: 12 May 2022 11:25

Tgt Ion:212 Resp: 20270
 Ion Ratio Lower Upper
 212 100
 106 16.4 13.0 19.4
 104 9.6 7.3 10.9

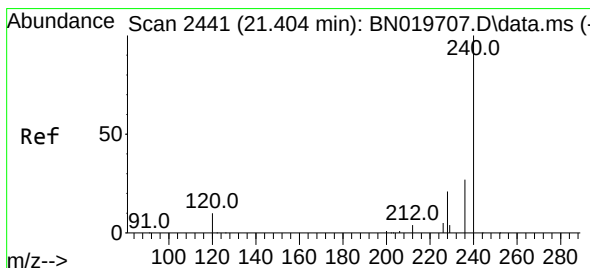
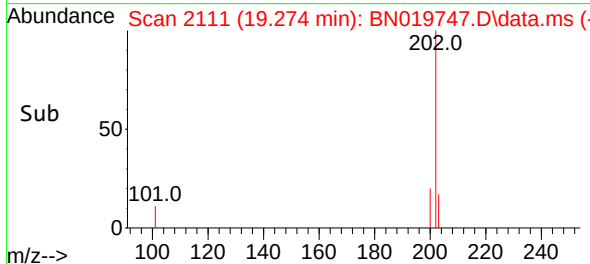
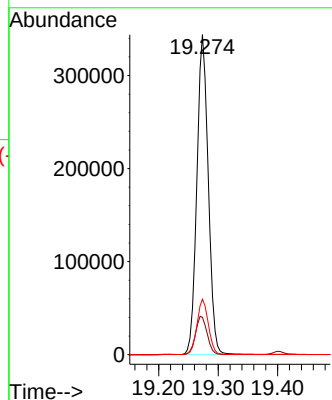
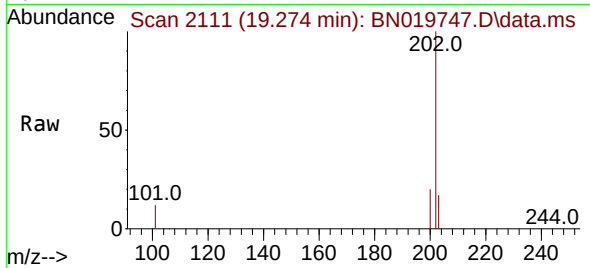




#28
Fluoranthene
Concen: 6.704 ng
RT: 19.274 min Scan# 2111
Delta R.T. -0.005 min
Lab File: BN019747.D
Acq: 12 May 2022 11:25

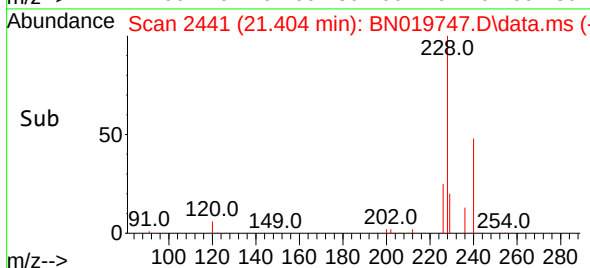
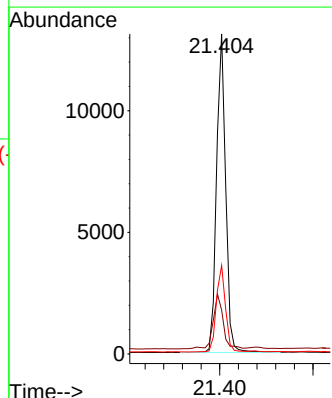
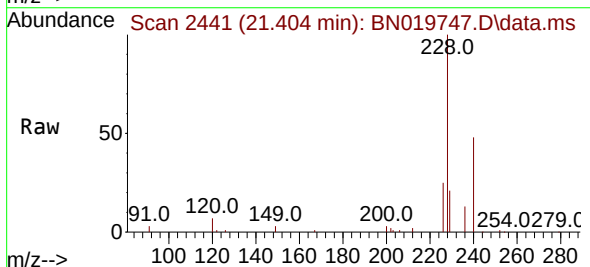
Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOIL

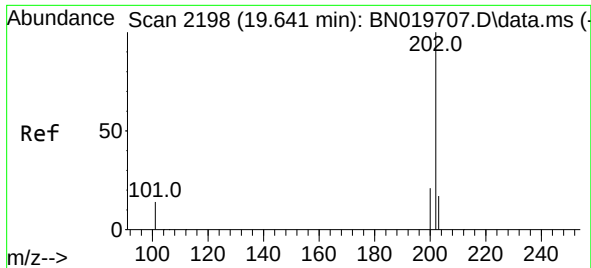
Tgt Ion:202 Resp: 457088
Ion Ratio Lower Upper
202 100
101 12.2 10.2 15.2
203 17.2 13.6 20.4



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.404 min Scan# 2441
Delta R.T. -0.000 min
Lab File: BN019747.D
Acq: 12 May 2022 11:25

Tgt Ion:240 Resp: 17772
Ion Ratio Lower Upper
240 100
120 13.7 9.0 13.6#
236 27.7 22.0 33.0

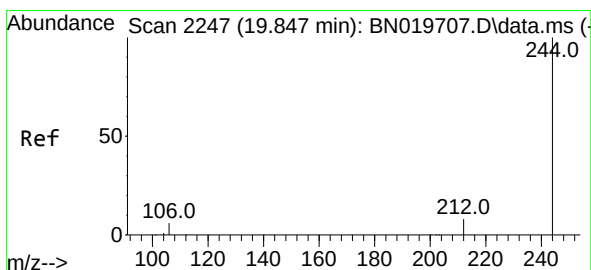
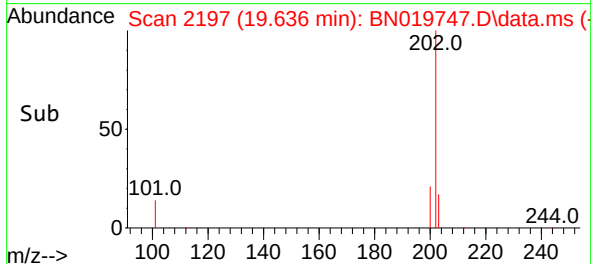
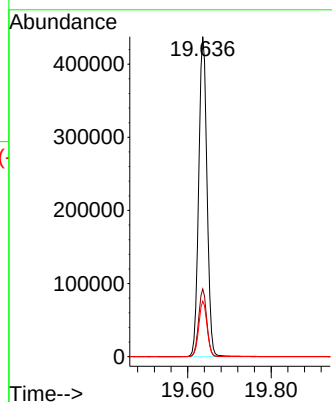
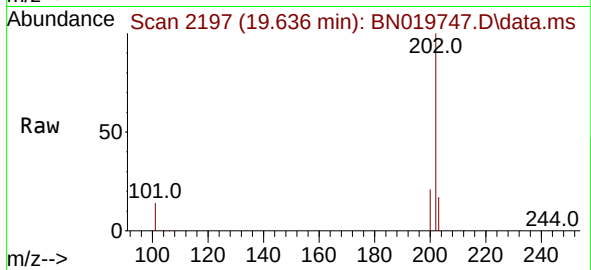




#30
Pyrene
Concen: 7.948 ng
RT: 19.636 min Scan# 2198
Delta R.T. -0.005 min
Lab File: BN019747.D
Acq: 12 May 2022 11:25

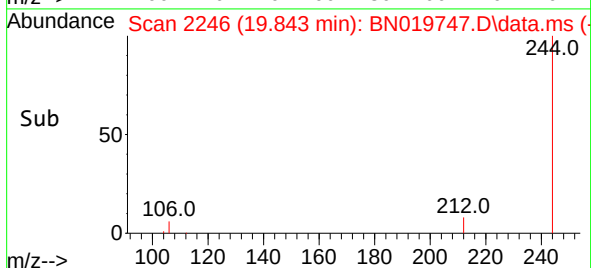
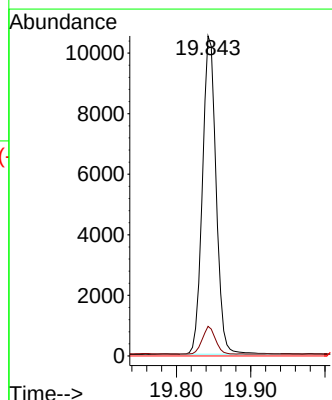
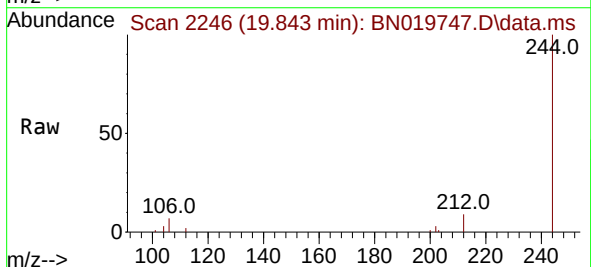
Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOIL

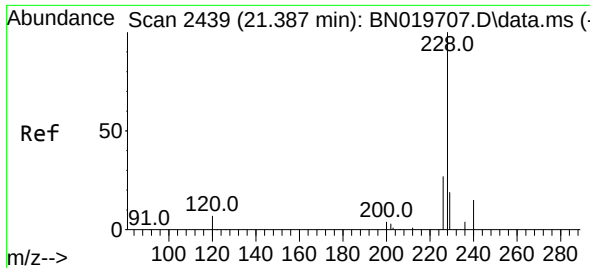
Tgt Ion:202 Resp: 600785
Ion Ratio Lower Upper
202 100
200 20.9 16.7 25.1
203 17.3 14.2 21.2



#31
Terphenyl-d14
Concen: 0.325 ng
RT: 19.843 min Scan# 2246
Delta R.T. -0.005 min
Lab File: BN019747.D
Acq: 12 May 2022 11:25

Tgt Ion:244 Resp: 13411
Ion Ratio Lower Upper
244 100
212 9.3 7.0 10.6
122 0.0 0.0 0.0

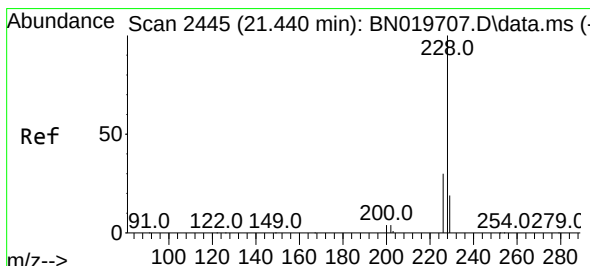
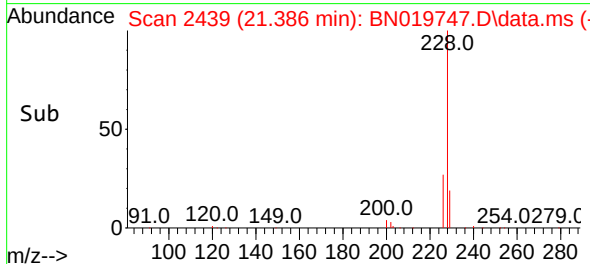
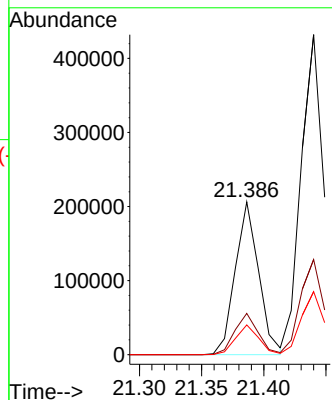
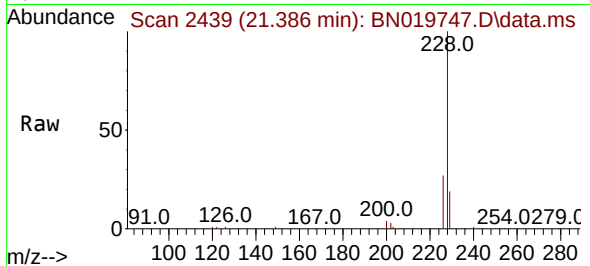




#32
Benzo(a)anthracene
Concen: 4.196 ng
RT: 21.386 min Scan# 2439
Delta R.T. -0.000 min
Lab File: BN019747.D
Acq: 12 May 2022 11:25

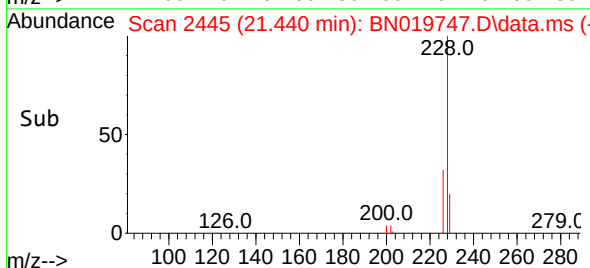
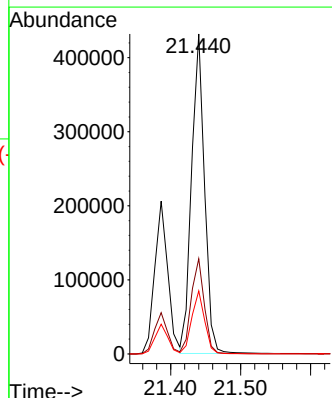
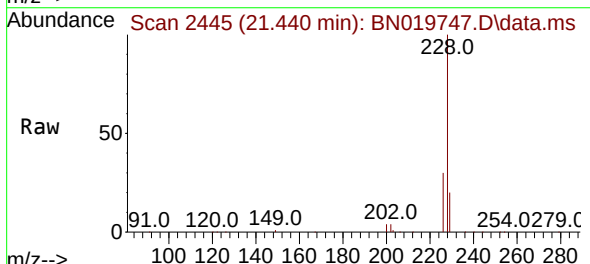
Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOIL

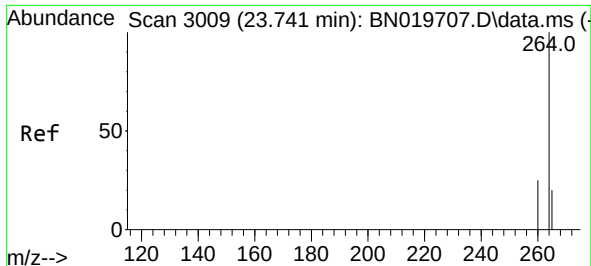
Tgt Ion:228 Resp: 269756
Ion Ratio Lower Upper
228 100
226 27.0 21.8 32.8
229 19.5 15.7 23.5



#33
Chrysene
Concen: 7.397 ng
RT: 21.440 min Scan# 2445
Delta R.T. -0.000 min
Lab File: BN019747.D
Acq: 12 May 2022 11:25

Tgt Ion:228 Resp: 554864
Ion Ratio Lower Upper
228 100
226 29.8 24.0 36.0
229 19.7 15.8 23.6

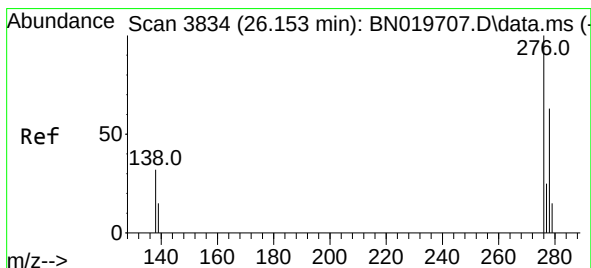
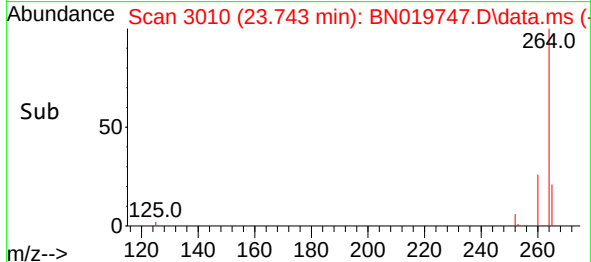
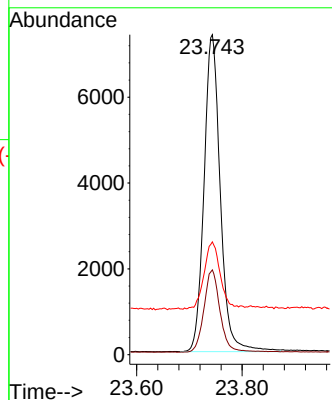
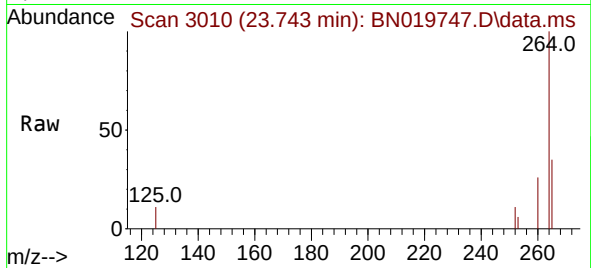




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.743 min Scan# 3009
Delta R.T. 0.003 min
Lab File: BN019747.D
Acq: 12 May 2022 11:25

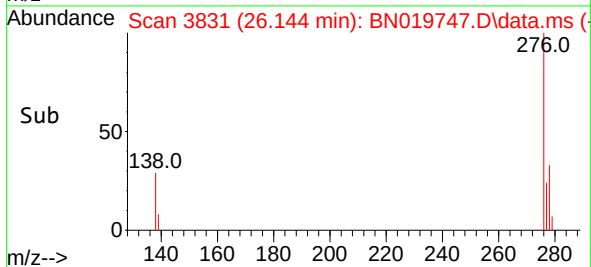
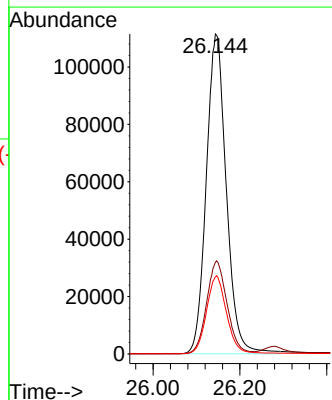
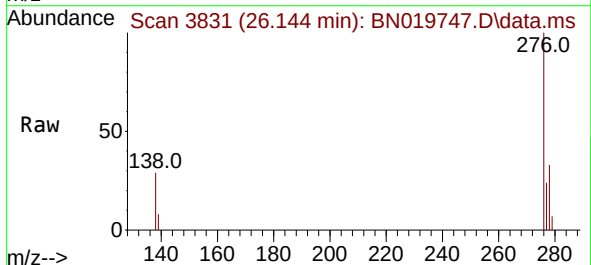
Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOIL

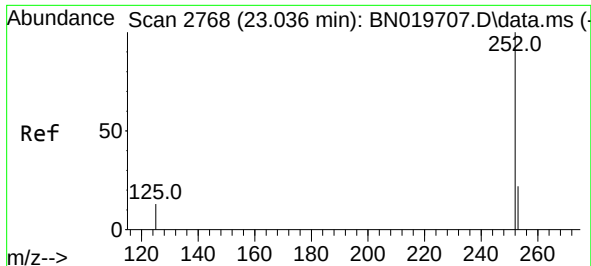
Tgt Ion:264 Resp: 15830
Ion Ratio Lower Upper
264 100
260 26.5 20.8 31.2
265 35.2 35.6 53.4#



#36
Indeno(1,2,3-cd)pyrene
Concen: 4.454 ng
RT: 26.144 min Scan# 3831
Delta R.T. -0.009 min
Lab File: BN019747.D
Acq: 12 May 2022 11:25

Tgt Ion:276 Resp: 356980
Ion Ratio Lower Upper
276 100
138 29.5 27.1 40.7
277 24.4 20.0 30.0

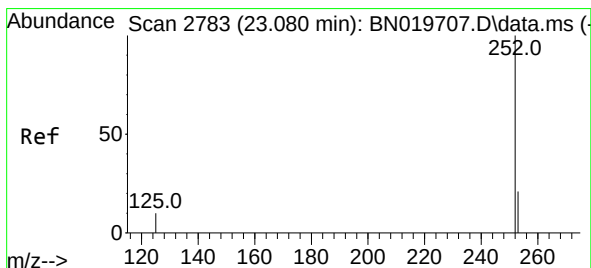
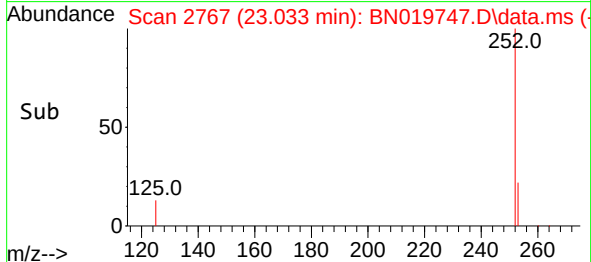
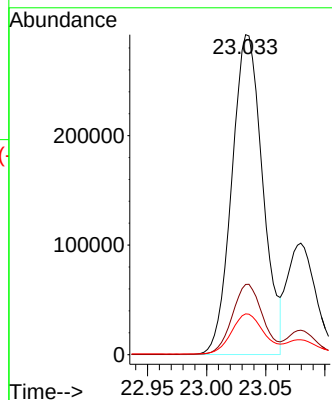
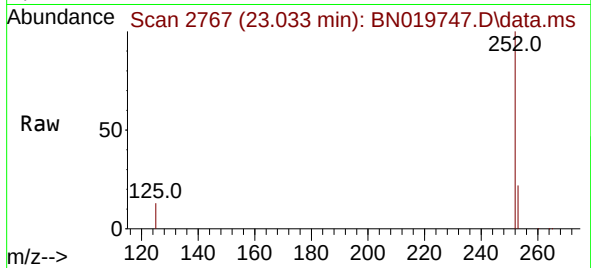




#37
Benzo(b)fluoranthene
Concen: 7.455 ng
RT: 23.033 min Scan# 21
Delta R.T. -0.003 min
Lab File: BN019747.D
Acq: 12 May 2022 11:25

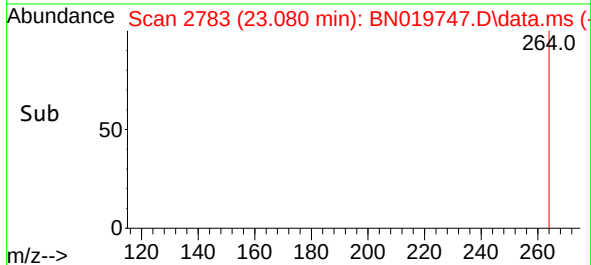
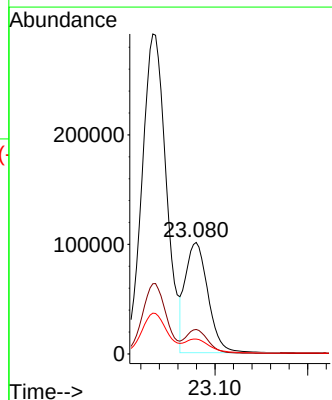
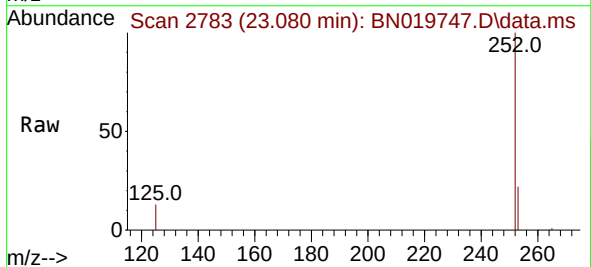
Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOIL

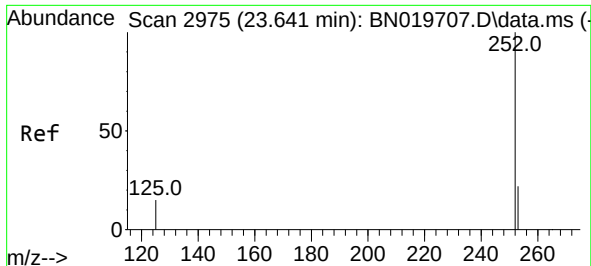
Tgt Ion:252 Resp: 530037
Ion Ratio Lower Upper
252 100
253 21.9 19.0 28.4
125 12.8 12.3 18.5



#38
Benzo(k)fluoranthene
Concen: 2.304 ng
RT: 23.080 min Scan# 2783
Delta R.T. -0.000 min
Lab File: BN019747.D
Acq: 12 May 2022 11:25

Tgt Ion:252 Resp: 170245
Ion Ratio Lower Upper
252 100
253 21.9 18.6 27.8
125 13.4 12.3 18.5

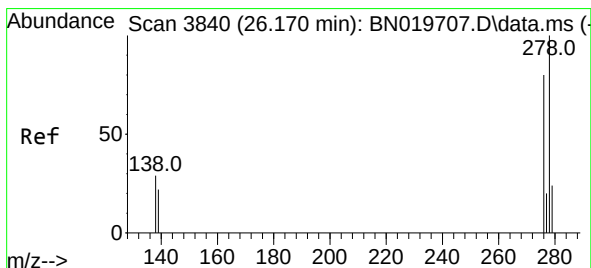
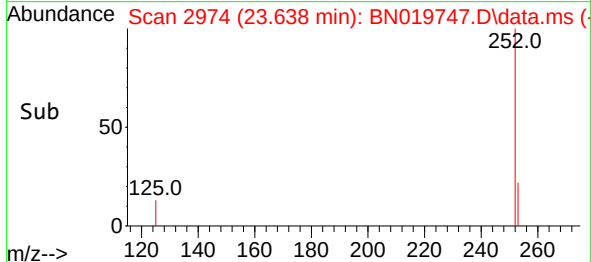
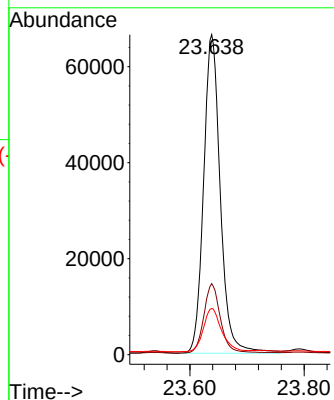
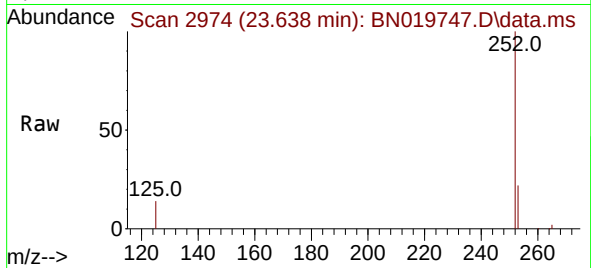




#39
Benzo(a)pyrene
Concen: 2.452 ng
RT: 23.638 min Scan# 2974
Delta R.T. -0.003 min
Lab File: BN019747.D
Acq: 12 May 2022 11:25

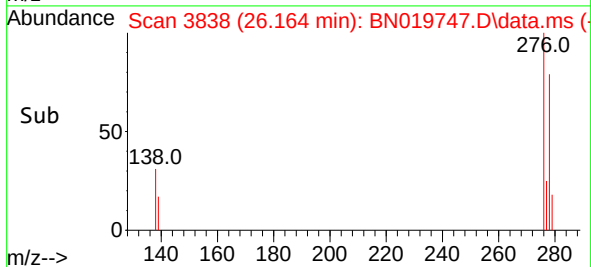
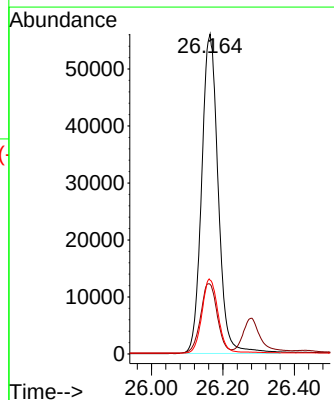
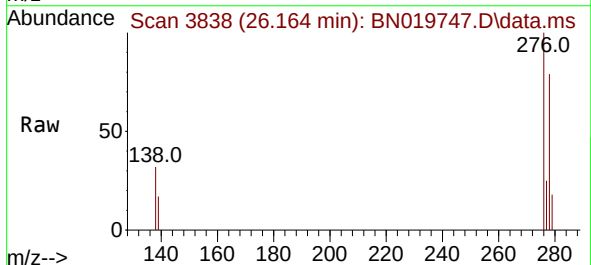
Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOIL

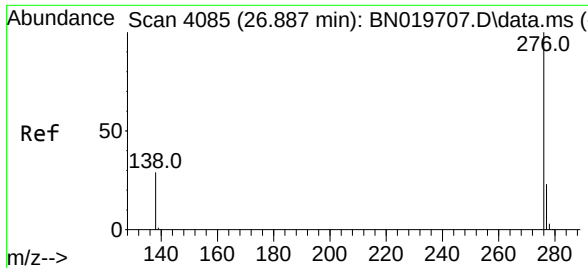
Tgt Ion:252 Resp: 134799
Ion Ratio Lower Upper
252 100
253 22.2 20.0 30.0
125 14.4 15.5 23.3#



#40
Dibenzo(a,h)anthracene
Concen: 2.753 ng
RT: 26.164 min Scan# 3838
Delta R.T. -0.006 min
Lab File: BN019747.D
Acq: 12 May 2022 11:25

Tgt Ion:278 Resp: 180571
Ion Ratio Lower Upper
278 100
139 21.8 18.5 27.7
279 23.0 20.2 30.4





#41
 Benzo(g,h,i)perylene
 Concen: 1.483 ng
 RT: 26.880 min Scan# 4083
 Delta R.T. -0.006 min
 Lab File: BN019747.D
 Acq: 12 May 2022 11:25

Instrument :
 BNA_N
 ClientSampleId :
 PT-PAH-SOIL

Tgt Ion:	276	Resp:	101322
Ion	Ratio	Lower	Upper
276	100		
277	23.4	19.4	29.0
138	28.1	24.1	36.1

