

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102825\
 Data File : BF144116.D
 Acq On : 28 Oct 2025 22:40
 Operator : RC/JU
 Sample : Q3447-01DL 4X
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 P001-TW1-251023-01DL

Quant Time: Oct 29 05:48:00 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF102425.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Oct 24 17:30:25 2025
 Response via : Initial Calibration

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

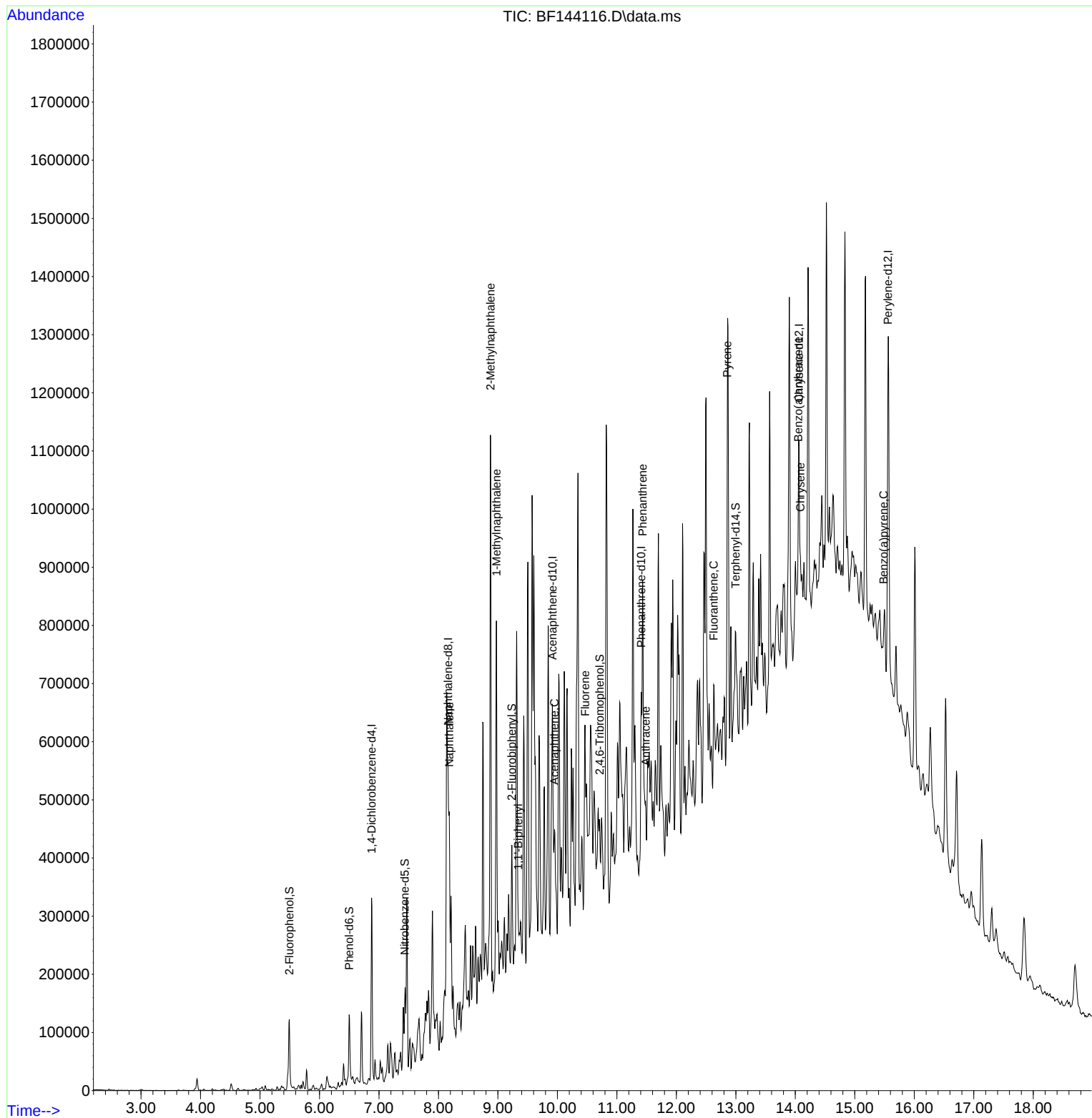
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.875	152	65328	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	225857	20.000	ng	0.00
39) Acenaphthene-d10	9.916	164	115098	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	155224	20.000	ng	0.00
76) Chrysene-d12	14.062	240	152005	20.000	ng	0.00
86) Perylene-d12	15.556	264	156185	20.000	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.492	112	54013	13.081	ng	0.00
7) Phenol-d6	6.498	99	65866	14.444	ng	0.00
23) Nitrobenzene-d5	7.433	82	40656	9.862	ng	0.00
42) 2,4,6-Tribromophenol	10.710	330	12939	8.825	ng	0.00
45) 2-Fluorobiphenyl	9.233	172	90322	11.043	ng	0.00
79) Terphenyl-d14	12.998	244	71721	8.249	ng	0.00
Target Compounds						
						Qvalue
31) Naphthalene	8.180	128	159126	14.928	ng	98
37) 2-Methylnaphthalene	8.875	142	364052	51.799	ng	95
38) 1-Methylnaphthalene	8.975	142	226028	33.946	ng	97
46) 1,1'-Biphenyl	9.339	154	33235	4.034	ng	98
52) Acenaphthene	9.951	154	17045	2.742	ng	# 67
58) Fluorene	10.469	166	45613	6.937	ng	# 84
71) Phenanthrene	11.433	178	263850	34.218	ng	97
72) Anthracene	11.486	178	37953	4.765	ng	# 84
75) Fluoranthene	12.627	202	34984	4.107	ng	68
78) Pyrene	12.857	202	227620	20.829	ng	# 95
81) Benzo(a)anthracene	14.051	228	46818	4.558	ng	# 23
83) Chrysene	14.086	228	69551	7.215	ng	# 46
90) Benzo(a)pyrene	15.486	252	28401	3.585	ng	# 56

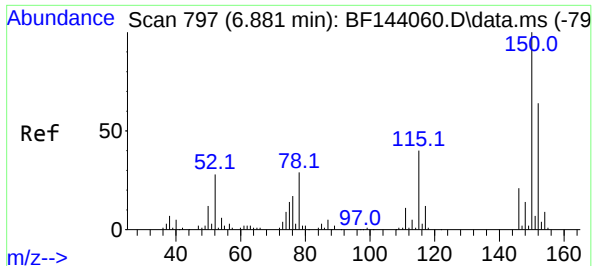
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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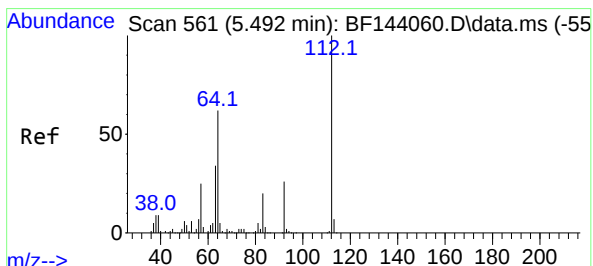
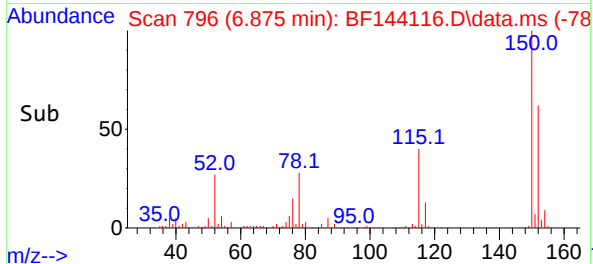
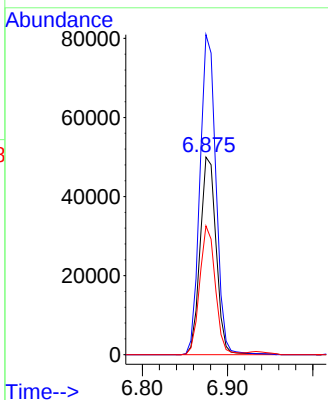
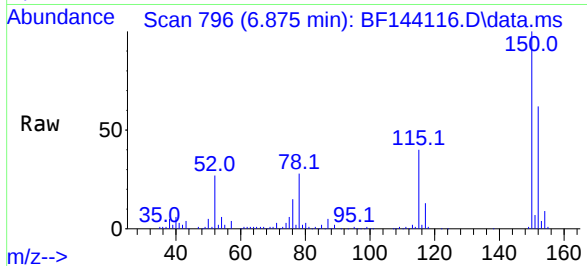




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.875 min Scan# 797
Delta R.T. -0.006 min
Lab File: BF144116.D
Acq: 28 Oct 2025 22:40

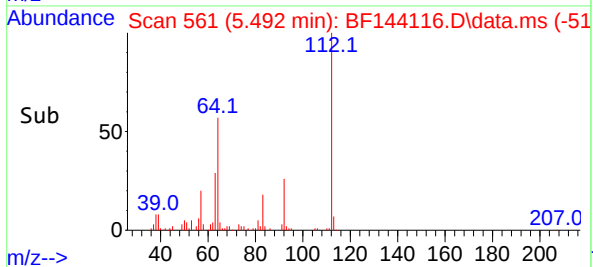
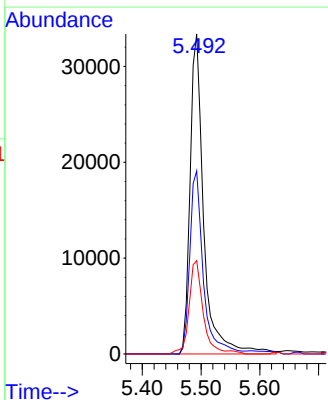
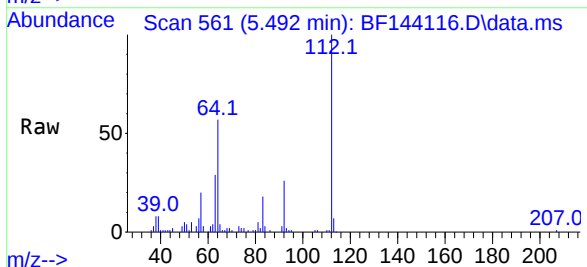
Instrument :
BNA_F
ClientSampleId :
P001-TW1-251023-01DL

Tgt Ion:152 Resp: 65328
Ion Ratio Lower Upper
152 100
150 161.9 124.4 186.6
115 65.2 49.4 74.0



#5
2-Fluorophenol
Concen: 13.081 ng
RT: 5.492 min Scan# 561
Delta R.T. -0.000 min
Lab File: BF144116.D
Acq: 28 Oct 2025 22:40

Tgt Ion:112 Resp: 54013
Ion Ratio Lower Upper
112 100
64 57.2 49.8 74.8
63 29.1 27.4 41.2

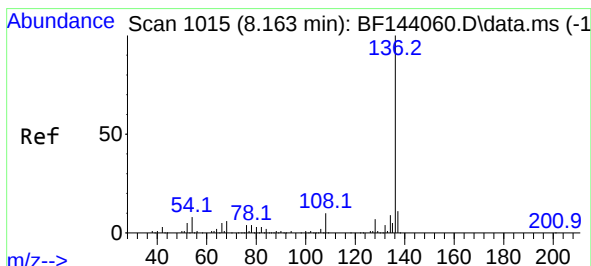
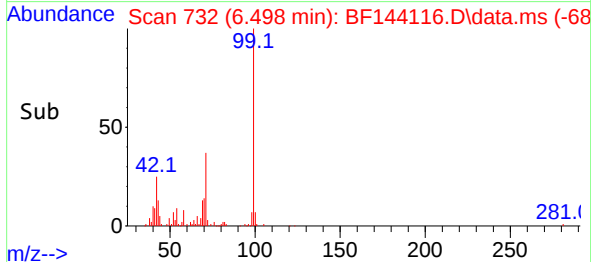
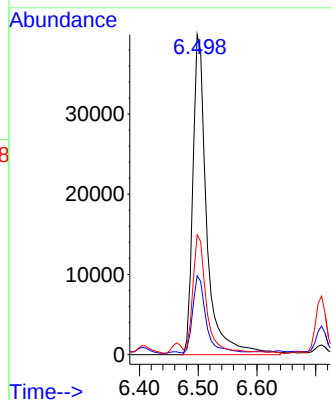
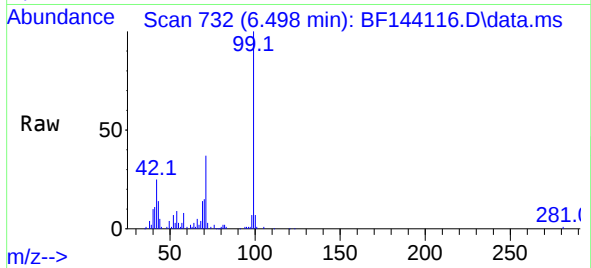




#7
Phenol-d6
Concen: 14.444 ng
RT: 6.498 min Scan# 71
Delta R.T. -0.006 min
Lab File: BF144116.D
Acq: 28 Oct 2025 22:40

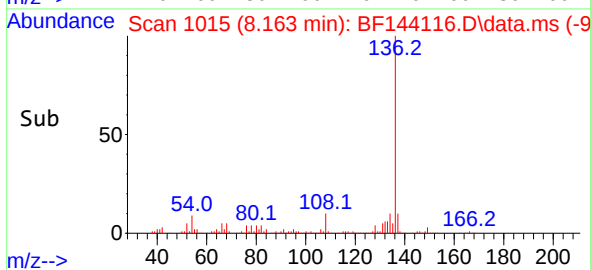
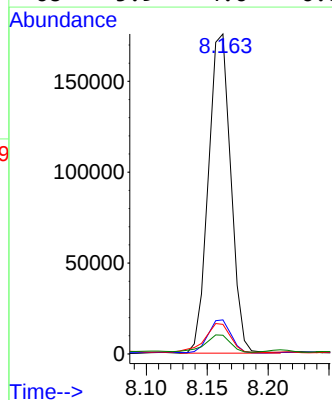
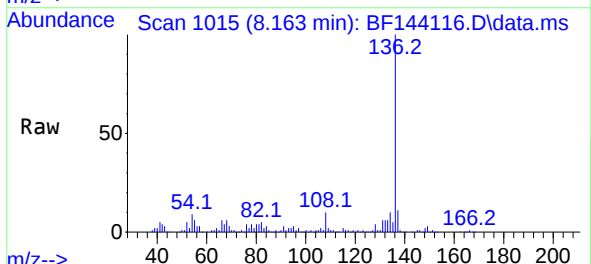
Instrument :
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ClientSampleId :
P001-TW1-251023-01DL

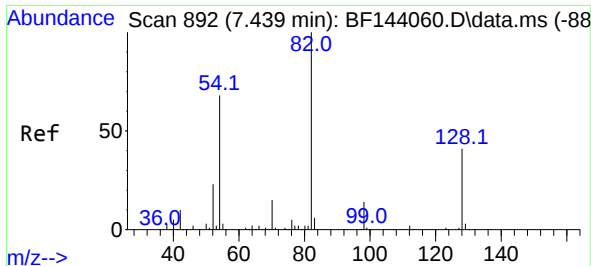
Tgt Ion:	99	Resp:	65866
Ion	Ratio	Lower	Upper
99	100		
42	24.7	23.9	35.9
71	37.5	34.4	51.6



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1015
Delta R.T. -0.000 min
Lab File: BF144116.D
Acq: 28 Oct 2025 22:40

Tgt Ion:	136	Resp:	225857
Ion	Ratio	Lower	Upper
136	100		
137	10.7	8.6	13.0
54	9.3	6.6	9.8
68	5.9	4.6	6.8

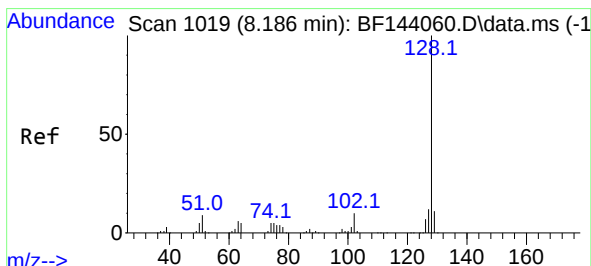
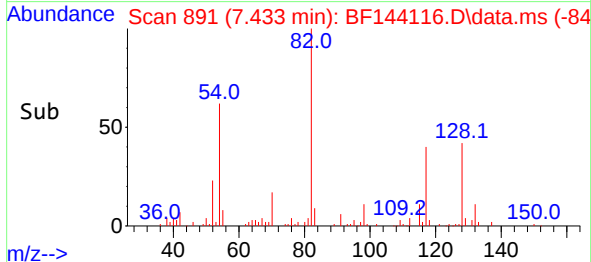
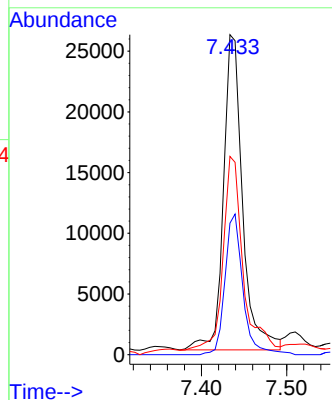
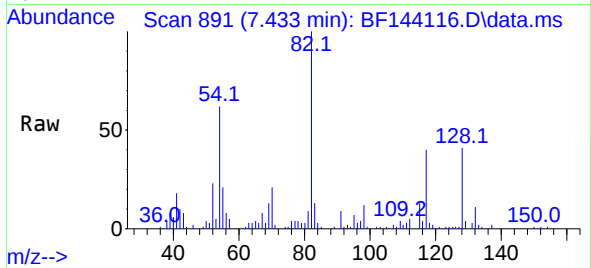




#23
Nitrobenzene-d5
Concen: 9.862 ng
RT: 7.433 min Scan# 891
Delta R.T. -0.006 min
Lab File: BF144116.D
Acq: 28 Oct 2025 22:40

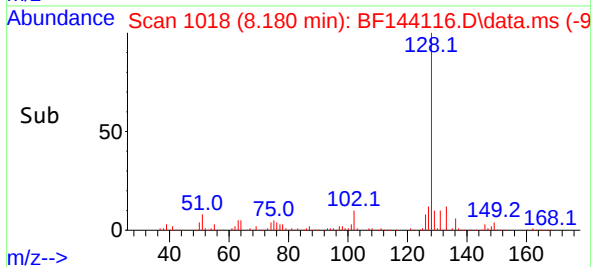
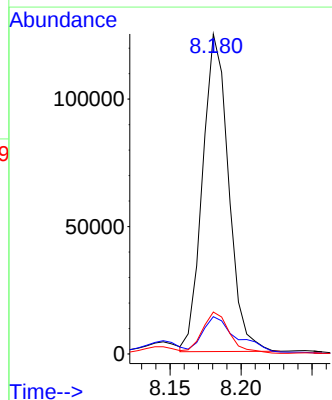
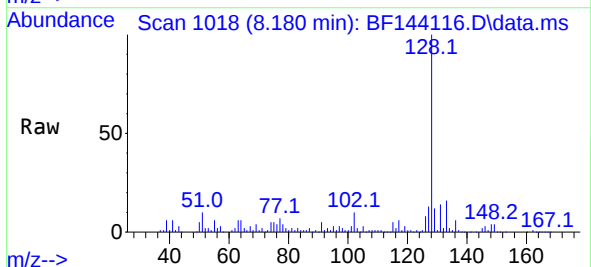
Instrument :
BNA_F
ClientSampleId :
P001-TW1-251023-01DL

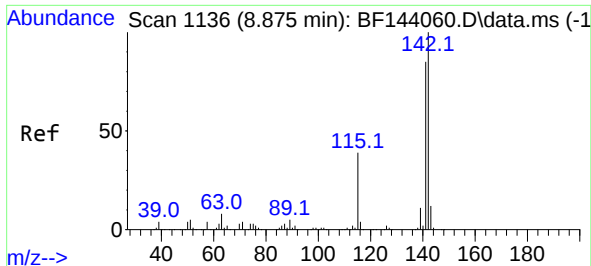
Tgt Ion: 82 Resp: 40656
Ion Ratio Lower Upper
82 100
128 41.1 32.4 48.6
54 61.9 54.0 81.0



#31
Naphthalene
Concen: 14.928 ng
RT: 8.180 min Scan# 1018
Delta R.T. -0.006 min
Lab File: BF144116.D
Acq: 28 Oct 2025 22:40

Tgt Ion:128 Resp: 159126
Ion Ratio Lower Upper
128 100
129 11.7 8.4 12.6
127 13.1 9.9 14.9

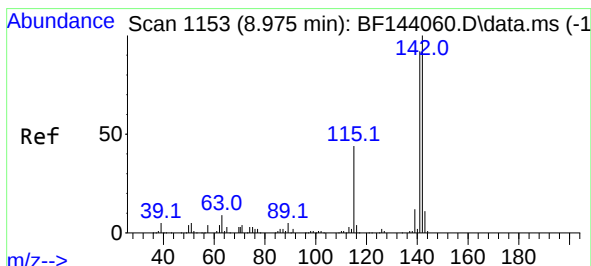
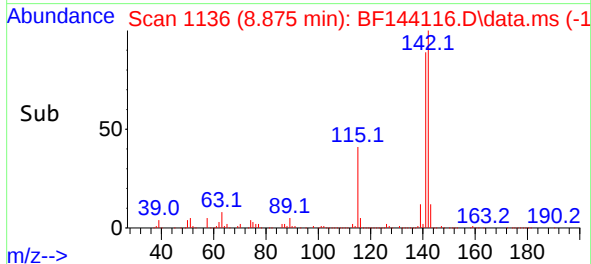
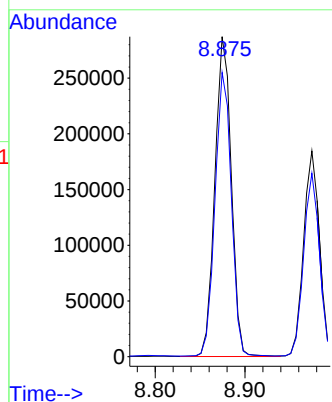
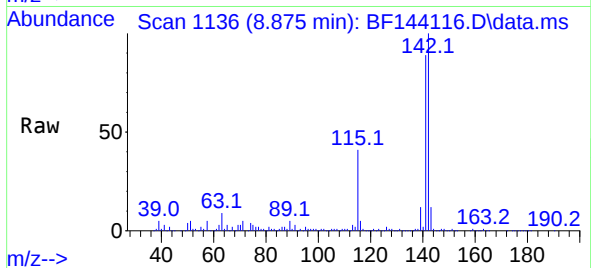




#37
2-Methylnaphthalene
Concen: 51.799 ng
RT: 8.875 min Scan# 1136
Delta R.T. -0.000 min
Lab File: BF144116.D
Acq: 28 Oct 2025 22:40

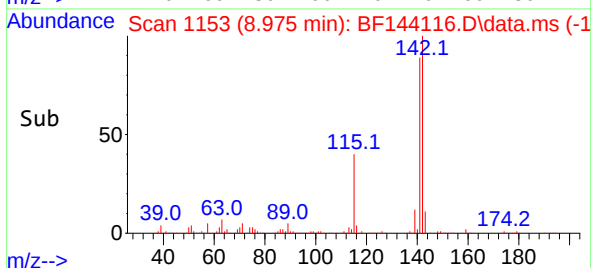
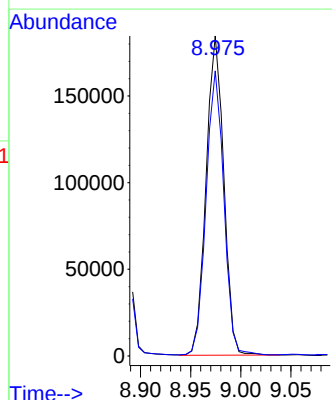
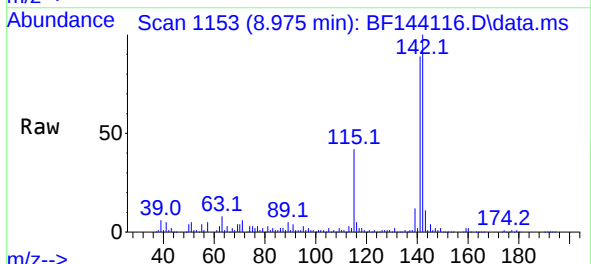
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ClientSampleId :
P001-TW1-251023-01DL

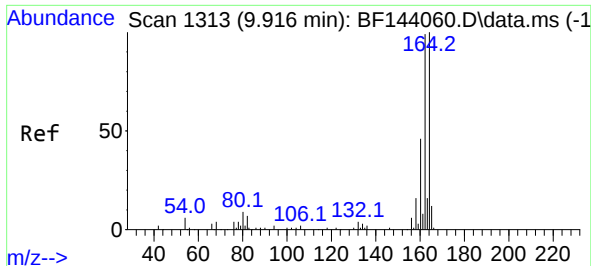
Tgt Ion:142 Resp: 364052
Ion Ratio Lower Upper
142 100
141 88.8 67.6 101.4



#38
1-Methylnaphthalene
Concen: 33.946 ng
RT: 8.975 min Scan# 1153
Delta R.T. -0.000 min
Lab File: BF144116.D
Acq: 28 Oct 2025 22:40

Tgt Ion:142 Resp: 226028
Ion Ratio Lower Upper
142 100
141 89.1 73.4 110.2

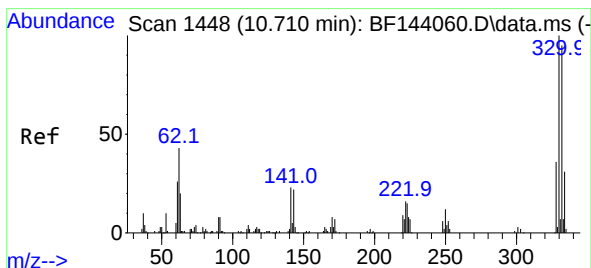
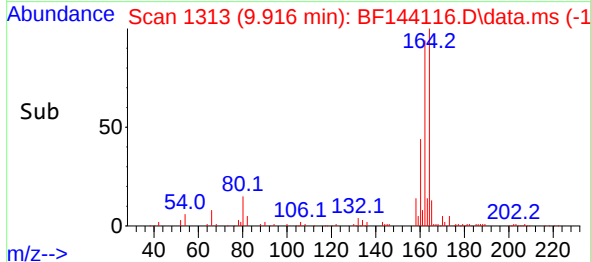
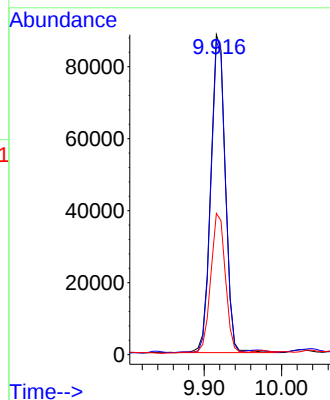
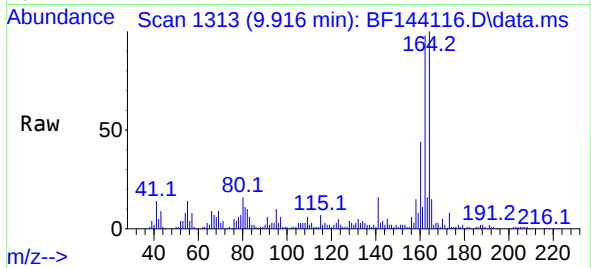




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.916 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF144116.D
Acq: 28 Oct 2025 22:40

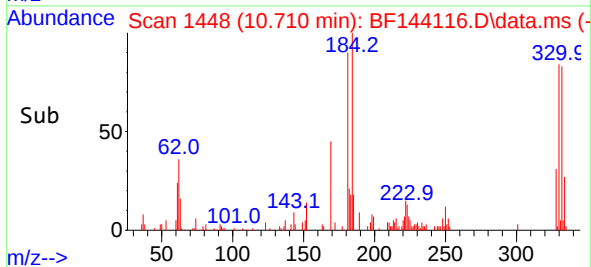
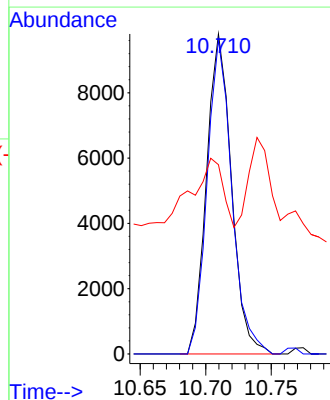
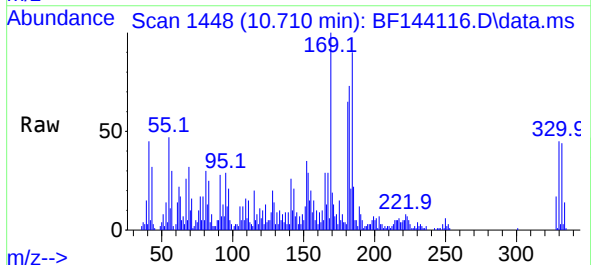
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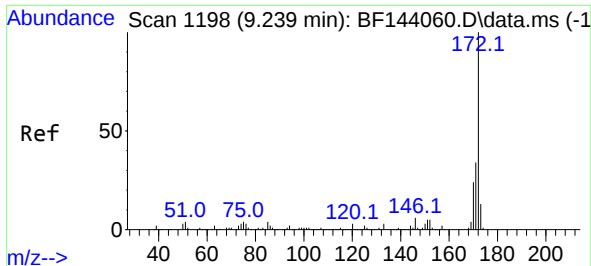
Tgt Ion:164 Resp: 115098
Ion Ratio Lower Upper
164 100
162 98.1 79.4 119.2
160 44.2 36.7 55.1



#42
2,4,6-Tribromophenol
Concen: 8.825 ng
RT: 10.710 min Scan# 1448
Delta R.T. -0.000 min
Lab File: BF144116.D
Acq: 28 Oct 2025 22:40

Tgt Ion:330 Resp: 12939
Ion Ratio Lower Upper
330 100
332 97.2 77.0 115.6
141 26.5 19.4 29.0

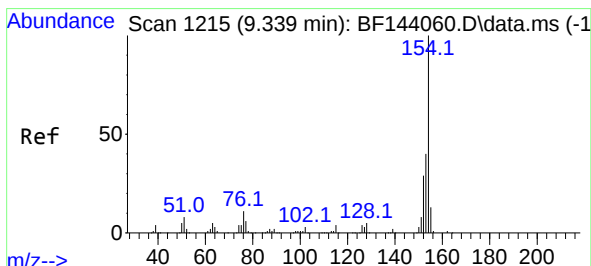
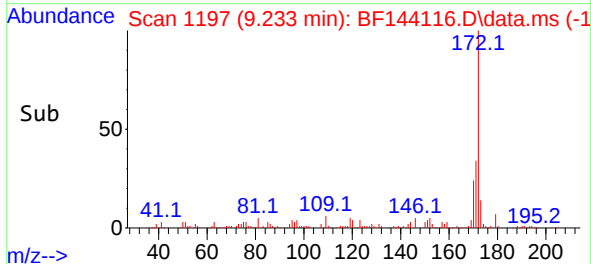
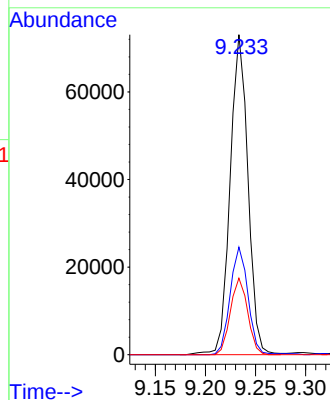
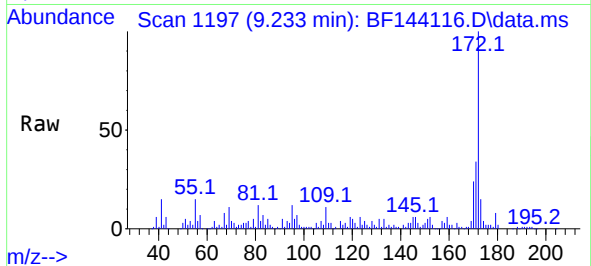




#45
2-Fluorobiphenyl
Concen: 11.043 ng
RT: 9.233 min Scan# 1198
Delta R.T. -0.006 min
Lab File: BF144116.D
Acq: 28 Oct 2025 22:40

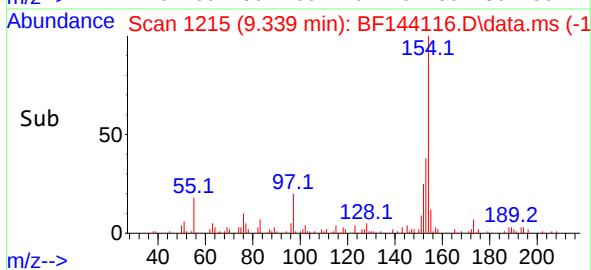
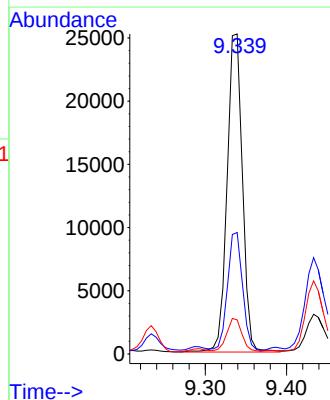
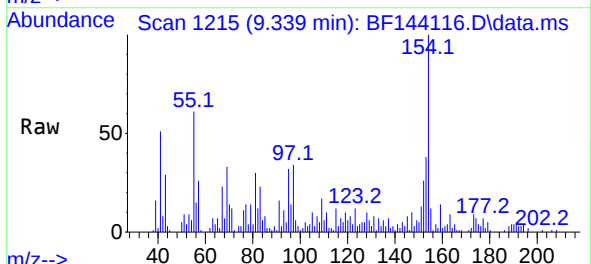
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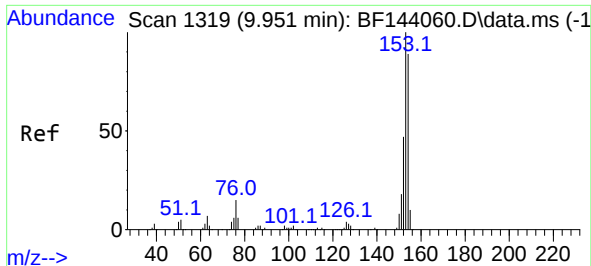
Tgt Ion:172	Resp:	90322
Ion Ratio	Lower	Upper
172	100	
171	33.6	27.5 41.3
170	23.9	19.0 28.6



#46
1,1'-Biphenyl
Concen: 4.034 ng
RT: 9.339 min Scan# 1215
Delta R.T. -0.000 min
Lab File: BF144116.D
Acq: 28 Oct 2025 22:40

Tgt Ion:154	Resp:	33235
Ion Ratio	Lower	Upper
154	100	
153	38.0	19.7 59.7
76	10.6	0.0 31.1

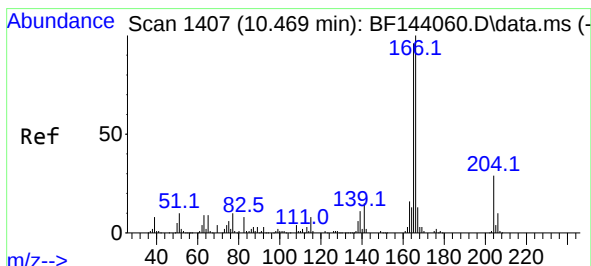
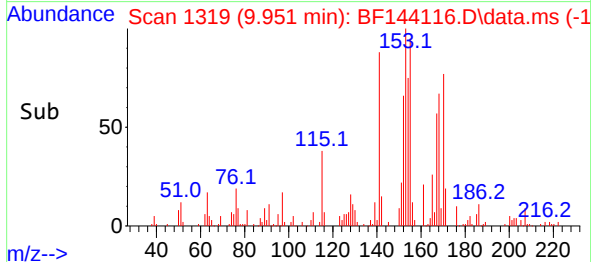
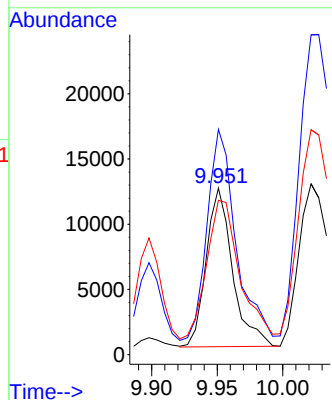
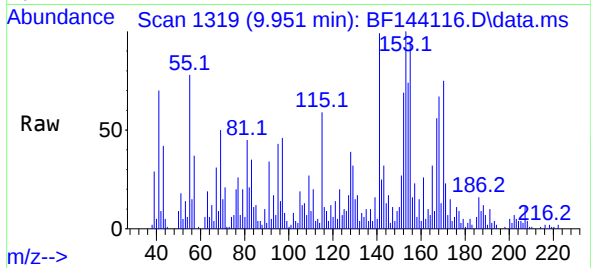




#52
Acenaphthene
Concen: 2.742 ng
RT: 9.951 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF144116.D
Acq: 28 Oct 2025 22:40

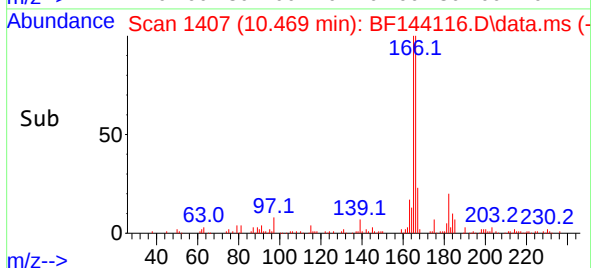
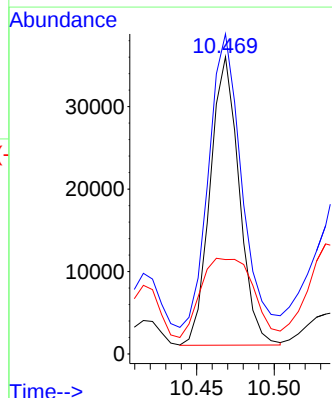
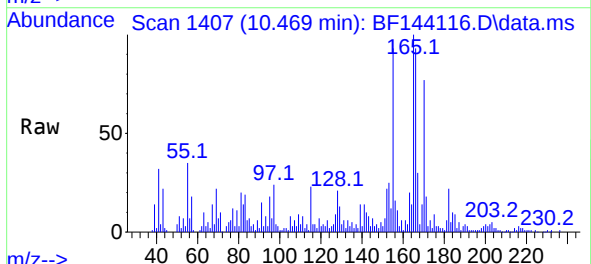
Instrument :
BNA_F
ClientSampleId :
P001-TW1-251023-01DL

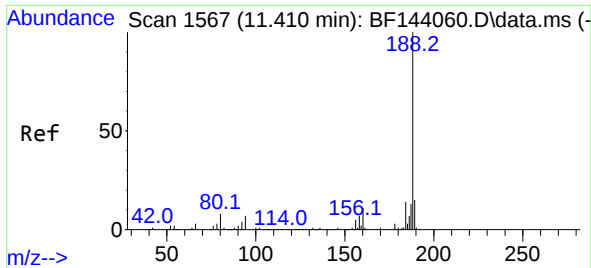
Tgt Ion:154 Resp: 17045
Ion Ratio Lower Upper
154 100
153 135.2 89.9 134.9#
152 92.7 42.0 63.0#



#58
Fluorene
Concen: 6.937 ng
RT: 10.469 min Scan# 1407
Delta R.T. -0.000 min
Lab File: BF144116.D
Acq: 28 Oct 2025 22:40

Tgt Ion:166 Resp: 45613
Ion Ratio Lower Upper
166 100
165 107.7 77.0 115.4
167 31.8 10.2 15.4#

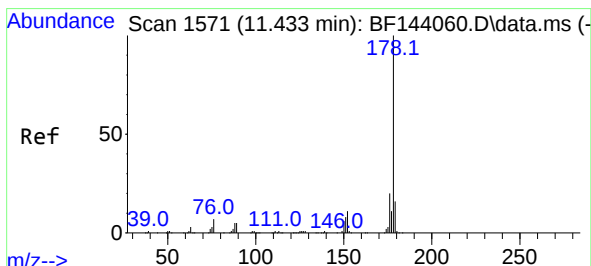
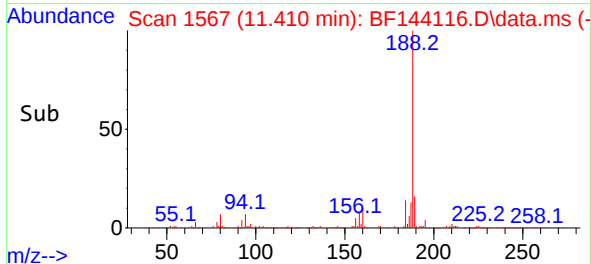
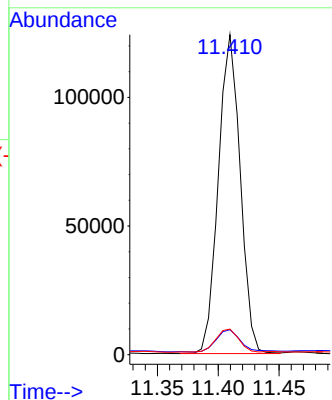
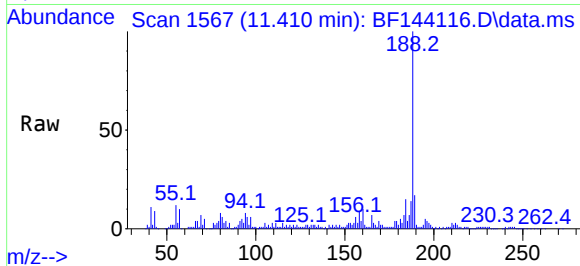




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 1567
Delta R.T. -0.000 min
Lab File: BF144116.D
Acq: 28 Oct 2025 22:40

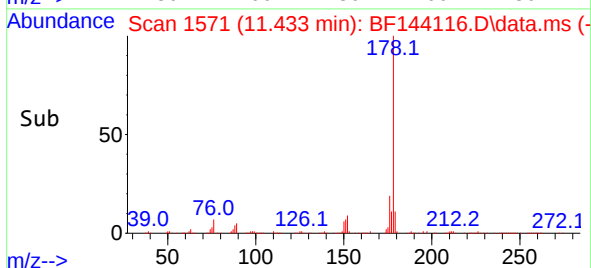
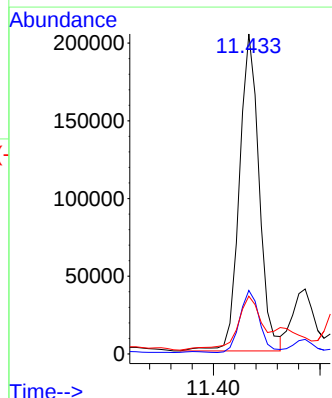
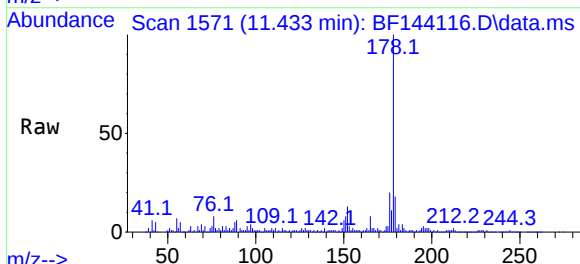
Instrument :
BNA_F
ClientSampleId :
P001-TW1-251023-01DL

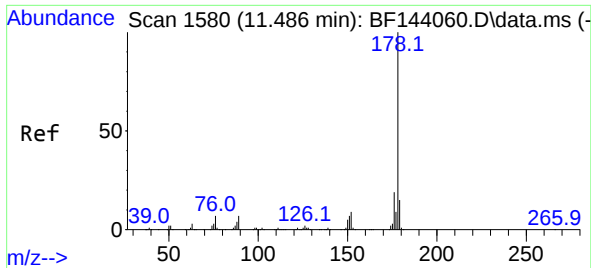
Tgt Ion:188 Resp: 155224
Ion Ratio Lower Upper
188 100
94 7.8 5.4 8.0
80 8.0 6.0 9.0



#71
Phenanthrene
Concen: 34.218 ng
RT: 11.433 min Scan# 1571
Delta R.T. -0.000 min
Lab File: BF144116.D
Acq: 28 Oct 2025 22:40

Tgt Ion:178 Resp: 263850
Ion Ratio Lower Upper
178 100
176 19.9 16.3 24.5
179 18.0 12.6 18.8

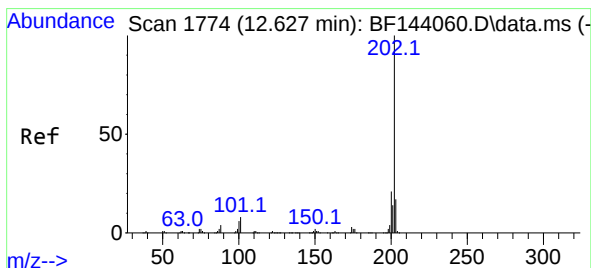
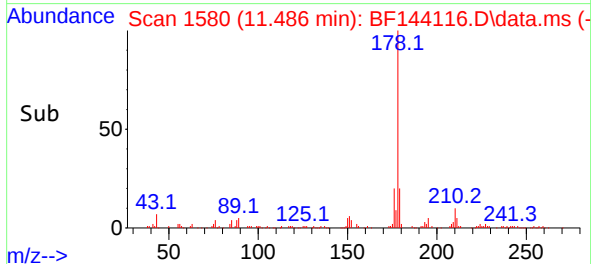
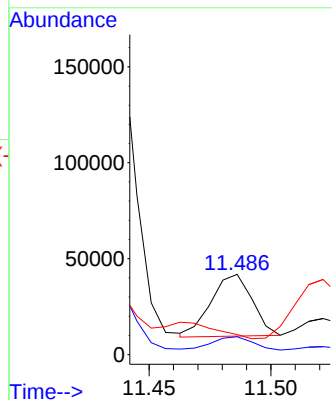
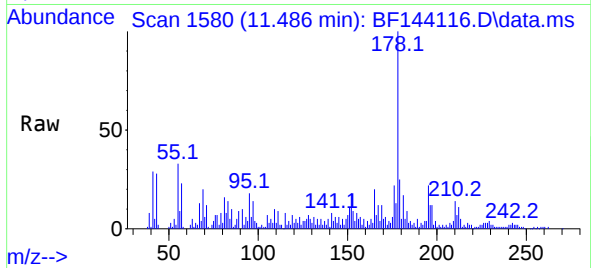




#72
Anthracene
Concen: 4.765 ng
RT: 11.486 min Scan# 11486
Delta R.T. -0.000 min
Lab File: BF144116.D
Acq: 28 Oct 2025 22:40

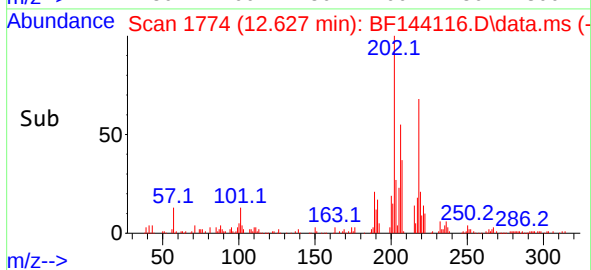
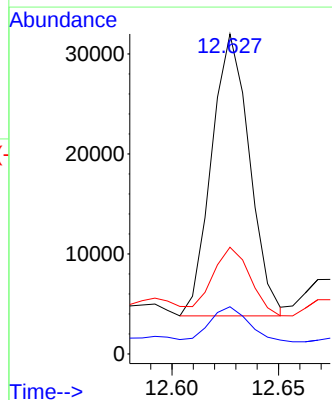
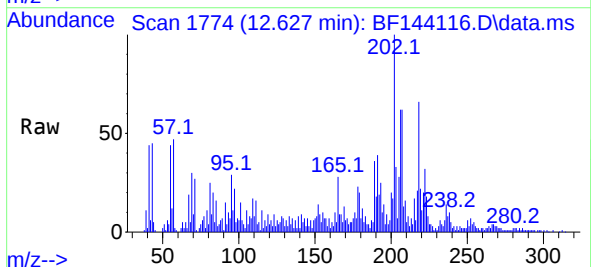
Instrument :
BNA_F
ClientSampleId :
P001-TW1-251023-01DL

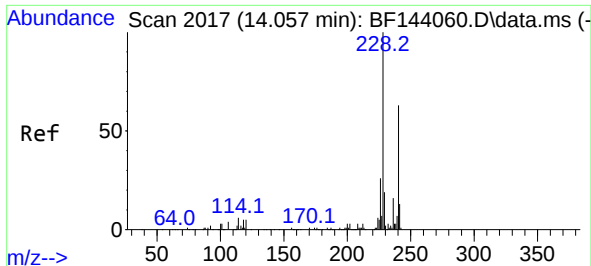
Tgt Ion:178 Resp: 37953
Ion Ratio Lower Upper
178 100
176 22.3 15.0 22.4
179 25.0 11.8 17.6#



#75
Fluoranthene
Concen: 4.107 ng
RT: 12.627 min Scan# 1774
Delta R.T. -0.000 min
Lab File: BF144116.D
Acq: 28 Oct 2025 22:40

Tgt Ion:202 Resp: 34984
Ion Ratio Lower Upper
202 100
101 14.7 0.0 27.7
203 33.4 0.0 37.3

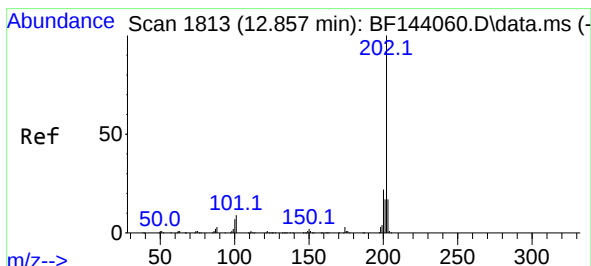
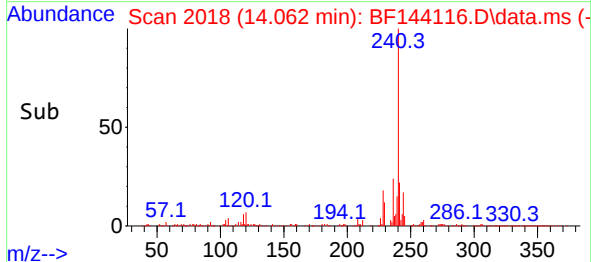
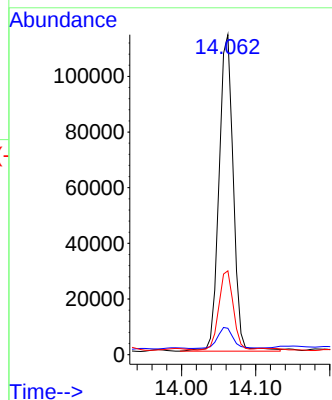
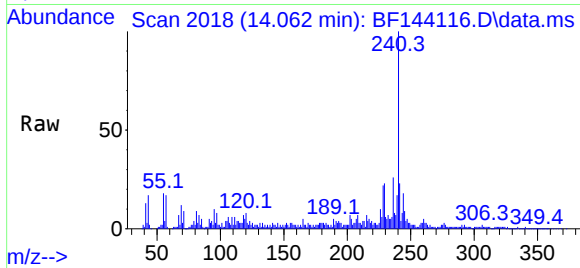




#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.062 min Scan# 20
Delta R.T. 0.006 min
Lab File: BF144116.D
Acq: 28 Oct 2025 22:40

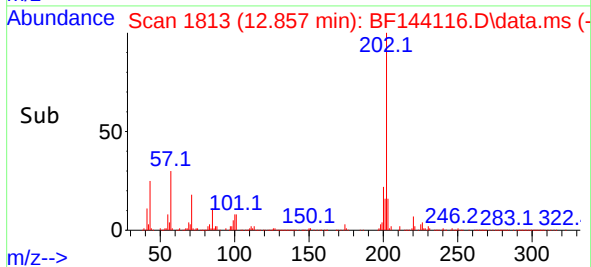
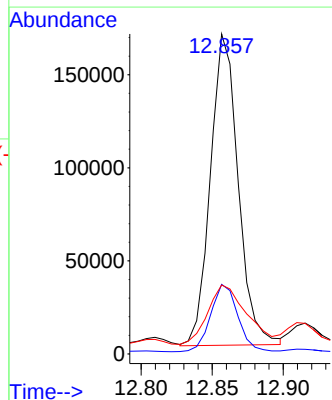
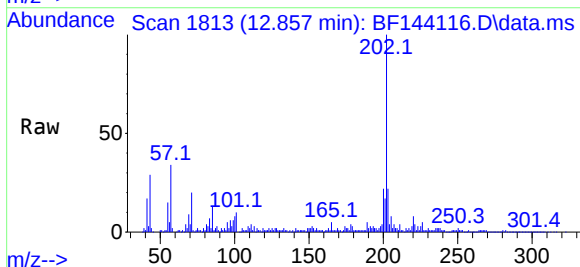
Instrument :
BNA_F
ClientSampleId :
P001-TW1-251023-01DL

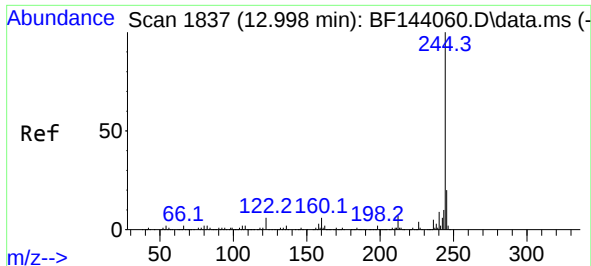
Tgt Ion:240 Resp: 152005
Ion Ratio Lower Upper
240 100
120 8.3 6.5 9.7
236 26.2 20.1 30.1



#78
Pyrene
Concen: 20.829 ng
RT: 12.857 min Scan# 1813
Delta R.T. -0.000 min
Lab File: BF144116.D
Acq: 28 Oct 2025 22:40

Tgt Ion:202 Resp: 227620
Ion Ratio Lower Upper
202 100
200 21.8 17.2 25.8
203 21.5 13.5 20.3#

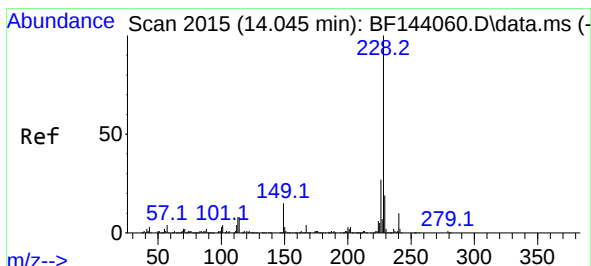
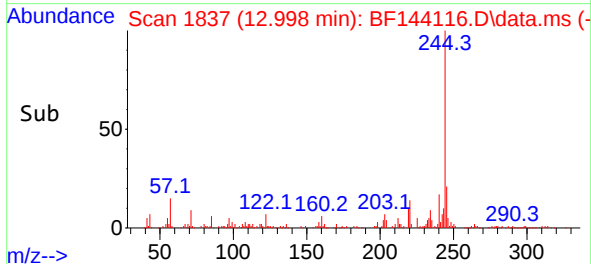
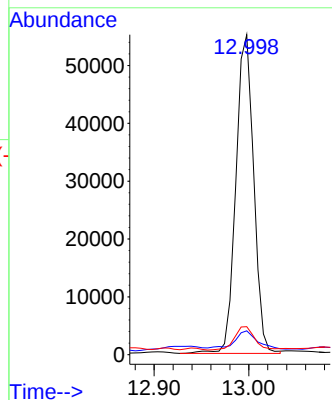
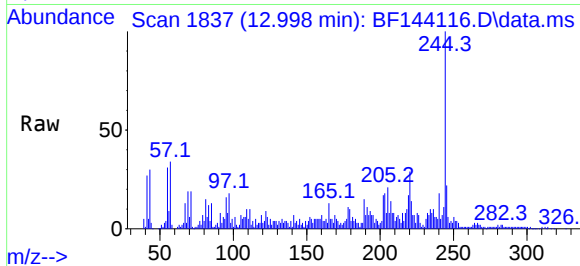




#79
 Terphenyl-d14
 Concen: 8.249 ng
 RT: 12.998 min Scan# 11
 Delta R.T. -0.000 min
 Lab File: BF144116.D
 Acq: 28 Oct 2025 22:40

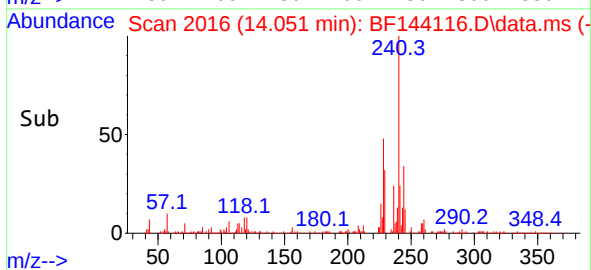
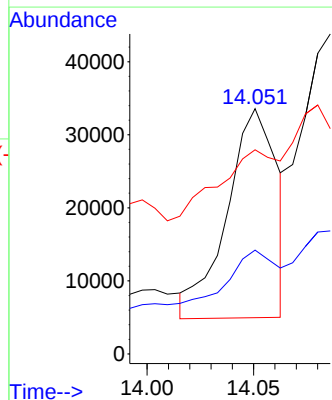
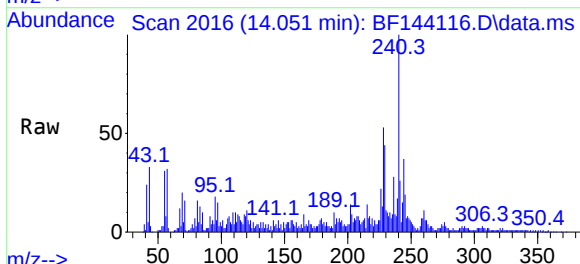
Instrument :
 BNA_F
 ClientSampleId :
 P001-TW1-251023-01DL

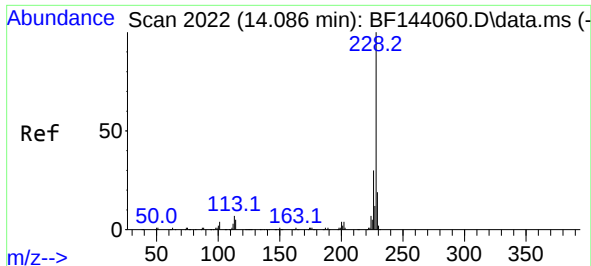
Tgt Ion:244 Resp: 71721
 Ion Ratio Lower Upper
 244 100
 212 7.5 5.8 8.6
 122 8.8 4.9 7.3#



#81
 Benzo(a)anthracene
 Concen: 4.558 ng
 RT: 14.051 min Scan# 2016
 Delta R.T. 0.006 min
 Lab File: BF144116.D
 Acq: 28 Oct 2025 22:40

Tgt Ion:228 Resp: 46818
 Ion Ratio Lower Upper
 228 100
 226 42.3 21.4 32.2#
 229 83.2 15.3 22.9#

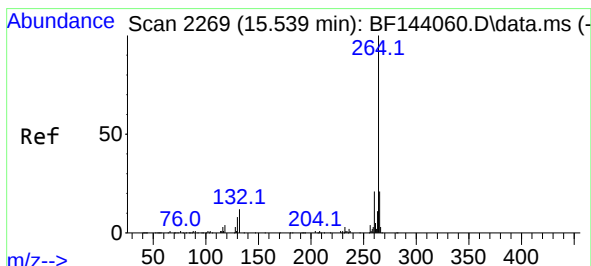
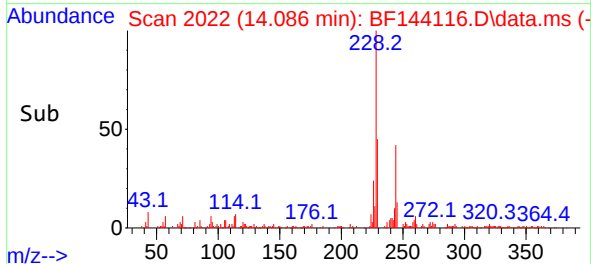
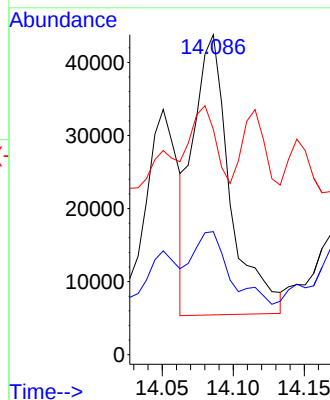
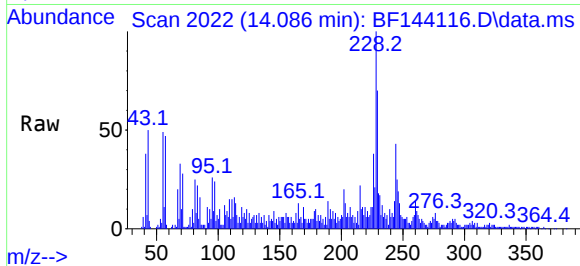




#83
Chrysene
Concen: 7.215 ng
RT: 14.086 min Scan# 20
Delta R.T. -0.000 min
Lab File: BF144116.D
Acq: 28 Oct 2025 22:40

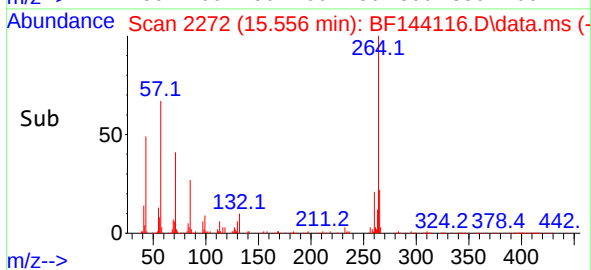
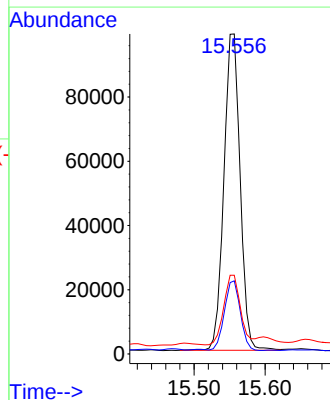
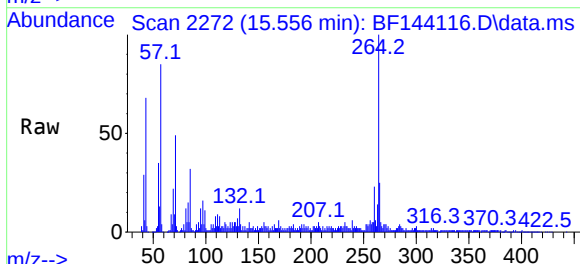
Instrument :
BNA_F
ClientSampleId :
P001-TW1-251023-01DL

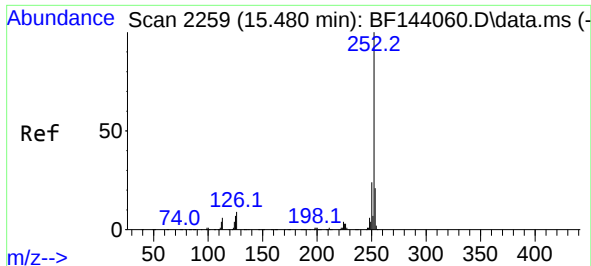
Tgt Ion:228 Resp: 69551
Ion Ratio Lower Upper
228 100
226 38.4 23.8 35.6#
229 70.4 15.6 23.4#



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.556 min Scan# 2272
Delta R.T. 0.018 min
Lab File: BF144116.D
Acq: 28 Oct 2025 22:40

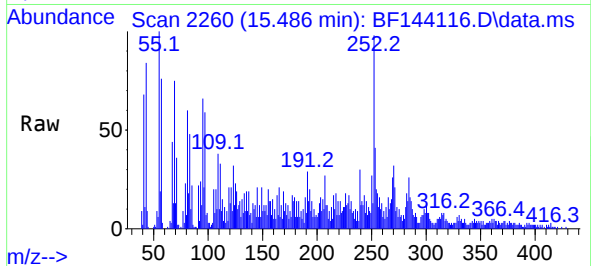
Tgt Ion:264 Resp: 156185
Ion Ratio Lower Upper
264 100
260 22.9 17.0 25.4
265 24.6 16.6 24.8





#90
Benzo(a)pyrene
Concen: 3.585 ng
RT: 15.486 min Scan# 21
Delta R.T. 0.006 min
Lab File: BF144116.D
Acq: 28 Oct 2025 22:40

Instrument :
BNA_F
ClientSampleId :
P001-TW1-251023-01DL



Tgt Ion:252 Resp: 28401
Ion Ratio Lower Upper
252 100
253 41.7 17.1 25.7#
125 23.3 5.4 8.2#

