

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031324\
 Data File : BF137584.D
 Acq On : 13 Mar 2024 19:02
 Operator : CG\JU
 Sample : P1725-02MSD
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 RT-3860MSD

Quant Time: Mar 14 04:00:04 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022924.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Mar 12 02:00:03 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	0.000	152	0	0.000	ng	-6.90
21) Naphthalene-d8	8.286	136	822307	20.000	ng	0.11
39) Acenaphthene-d10	10.039	164	448946	20.000	ng	0.11
64) Phenanthrene-d10	11.539	188	725858	20.000	ng	0.11
76) Chrysene-d12	14.210	240	419045	20.000	ng	0.11
86) Perylene-d12	15.833	264	454211	20.000	ng	0.18

System Monitoring Compounds						
5) 2-Fluorophenol	5.740	112	1449412	0.000	ng	0.17
7) Phenol-d6	6.681	99	1897756	0.000	ng	0.12
23) Nitrobenzene-d5	7.581	82	1347741	76.154	ng	0.11
42) 2,4,6-Tribromophenol	10.839	330	532530	135.073	ng	0.11
45) 2-Fluorobiphenyl	9.363	172	2184119	76.155	ng	0.11
79) Terphenyl-d14	13.145	244	2310958	75.835	ng	0.11

Target Compounds					Qvalue	
22) Acetophenone	7.428	105	796181	40.017	ng	# 97
24) Nitrobenzene	7.598	77	683291	38.434	ng	98
25) Isophorone	7.834	82	1299371	38.646	ng	98
26) 2-Nitrophenol	7.910	139	312523	44.278	ng	93
27) 2,4-Dimethylphenol	7.945	122	432135	32.766	ng	99
28) bis(2-Chloroethoxy)met...	8.039	93	785315	39.808	ng	99
29) 2,4-Dichlorophenol	8.145	162	511435	42.253	ng	98
30) 1,2,4-Trichlorobenzene	8.228	180	517269	40.609	ng	98
31) Naphthalene	8.310	128	1731975	39.256	ng	99
32) Benzoic acid	8.045	122	51074	12.141	ng	98
33) 4-Chloroaniline	8.363	127	66556	3.847	ng	99
34) Hexachlorobutadiene	8.422	225	300387	39.945	ng	99
35) Caprolactam	8.775	113	53919	13.137	ng	91
36) 4-Chloro-3-methylphenol	8.851	107	574840	42.487	ng	98
37) 2-Methylnaphthalene	8.998	142	1083018	38.506	ng	100
38) 1-Methylnaphthalene	9.098	142	1004047	37.907	ng	100
40) 1,2,4,5-Tetrachloroben...	9.163	216	533066	42.531	ng	99
41) Hexachlorocyclopentadiene	9.145	237	341744	68.173	ng	100
43) 2,4,6-Trichlorophenol	9.281	196	361160	44.250	ng	99
44) 2,4,5-Trichlorophenol	9.328	196	381251	40.550	ng	97
46) 1,1'-Biphenyl	9.463	154	1347703	41.015	ng	99
47) 2-Chloronaphthalene	9.486	162	1062742	42.421	ng	98
48) 2-Nitroaniline	9.592	65	385787	45.307	ng	98
49) Acenaphthylene	9.904	152	1686208	42.058	ng	100
50) Dimethylphthalate	9.775	163	1382210	44.228	ng	100
51) 2,6-Dinitrotoluene	9.833	165	302180	46.229	ng	98
52) Acenaphthene	10.075	154	966034	40.360	ng	99
53) 3-Nitroaniline	10.004	138	151168	21.864	ng	93
54) 2,4-Dinitrophenol	10.116	184	79982	30.732	ng	93
55) Dibenzofuran	10.251	168	1468528	40.283	ng	100
56) 4-Nitrophenol	10.180	139	351097	71.863	ng	97
57) 2,4-Dinitrotoluene	10.245	165	363144	45.219	ng	94
58) Fluorene	10.598	166	1132097	40.436	ng	97
59) 2,3,4,6-Tetrachlorophenol	10.375	232	324712	43.068	ng	95
60) Diethylphthalate	10.475	149	1278400	43.318	ng	99
61) 4-Chlorophenyl-phenyle...	10.592	204	554741	40.430	ng	92

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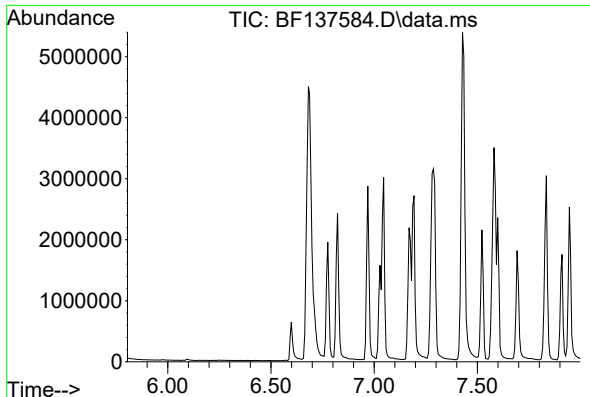
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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
62) 4-Nitroaniline	10.628	138	254036	42.749	ng	97
63) Azobenzene	10.751	77	1436360	42.267	ng	99
65) 4,6-Dinitro-2-methylph...	10.651	198	100202	24.768	ng	92
66) n-Nitrosodiphenylamine	10.716	169	1068164	45.700	ng	100
67) 4-Bromophenyl-phenylether	11.086	248	375215	47.460	ng	96
68) Hexachlorobenzene	11.145	284	396948	49.711	ng	94
69) Atrazine	11.251	200	351412	49.456	ng	98
70) Pentachlorophenol	11.345	266	327703	67.888	ng	97
71) Phenanthrene	11.563	178	1715341	43.423	ng	99
72) Anthracene	11.616	178	1761284	43.412	ng	99
73) Carbazole	11.780	167	1534388	44.152	ng	98
74) Di-n-butylphthalate	12.116	149	1921016	46.461	ng	99
75) Fluoranthene	12.763	202	1601891	41.486	ng	99
77) Benzidine	12.892	184	421253	41.078	ng	98
78) Pyrene	12.992	202	1626491	39.557	ng	99
80) Butylbenzylphthalate	13.633	149	647385	61.650	ng	93
81) Benzo(a)anthracene	14.198	228	1304768	44.424	ng	99
82) 3,3'-Dichlorobenzidine	14.163	252	233945	29.911	ng	99
83) Chrysene	14.233	228	1372608	46.240	ng	100
84) Bis(2-ethylhexyl)phtha...	14.198	149	840899	63.003	ng	# 99
85) Di-n-octyl phthalate	14.845	149	1632482	61.657	ng	97
87) Indeno(1,2,3-cd)pyrene	17.604	276	1217669	40.738	ng	98
88) Benzo(b)fluoranthene	15.374	252	1343238	49.993	ng	99
89) Benzo(k)fluoranthene	15.374	252	1343238	46.545	ng	99
90) Benzo(a)pyrene	15.762	252	1216774	45.955	ng	99
91) Dibenzo(a,h)anthracene	17.639	278	992665	40.939	ng	99
92) Benzo(g,h,i)perylene	18.145	276	880214	35.348	ng	98

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

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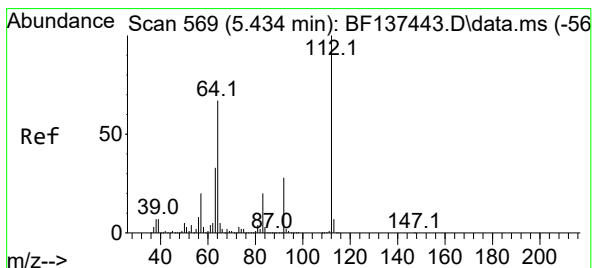
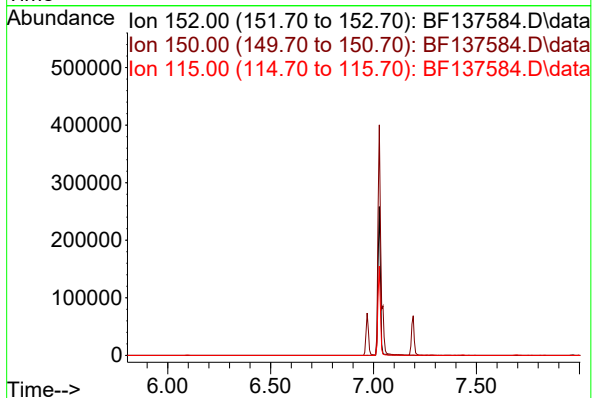




#1
 1,4-Dichlorobenzene-d4
 Concen: 0.000 ng
 Expected RT: 6.90 min
 Lab File: BF137584.D
 Acq: 13 Mar 2024 19:02

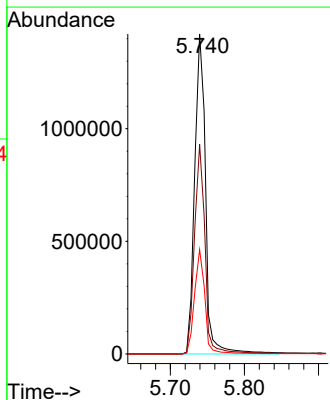
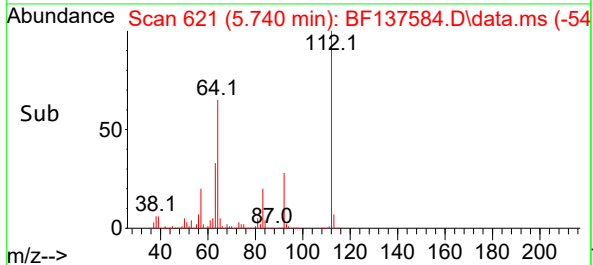
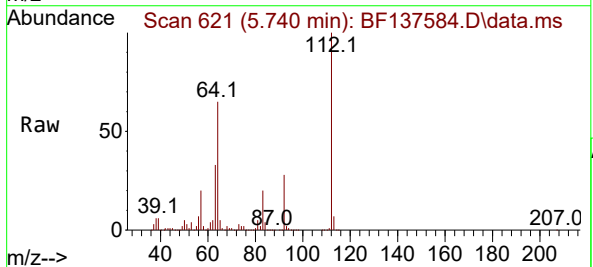
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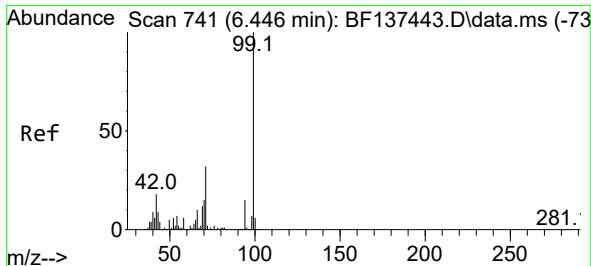
Tgt Ion: 152
 Sig Exp Ratio
 152 100
 150 157.2
 115 61.0



#5
 2-Fluorophenol
 Concen: 0.000 ng
 RT: 5.740 min Scan# 621
 Delta R.T. 0.171 min
 Lab File: BF137584.D
 Acq: 13 Mar 2024 19:02

Tgt Ion: 112 Resp: 1449412
 Ion Ratio Lower Upper
 112 100
 64 65.5 53.4 80.2
 63 32.6 26.2 39.2

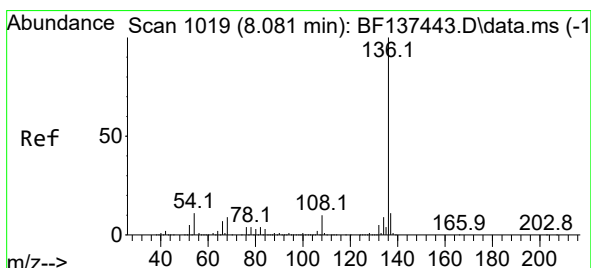
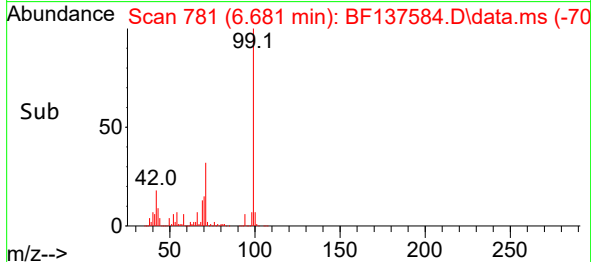
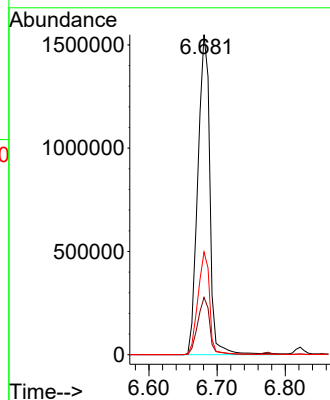
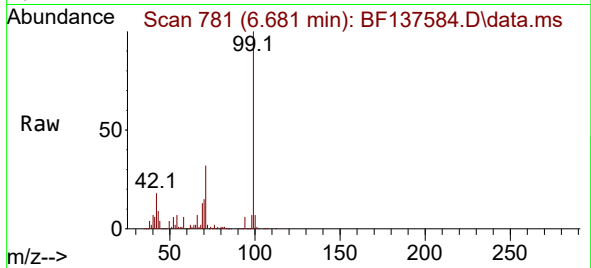




#7
Phenol-d6
Concen: 0.000 ng
RT: 6.681 min Scan# 71
Delta R.T. 0.123 min
Lab File: BF137584.D
Acq: 13 Mar 2024 19:02

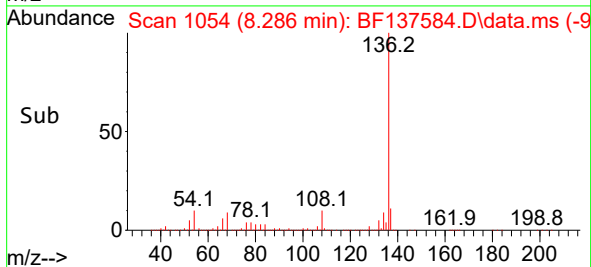
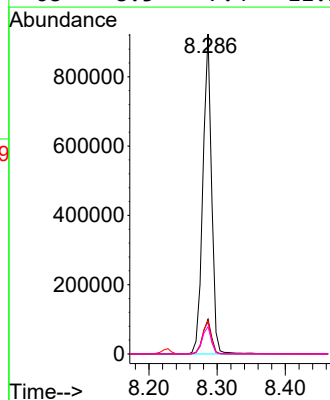
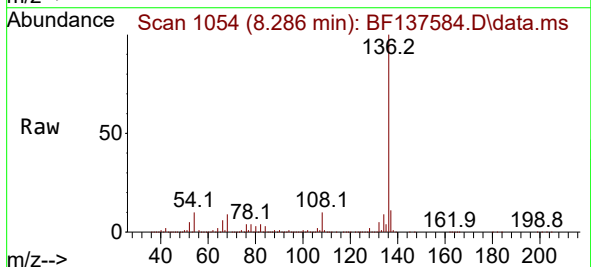
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ClientSampleId :
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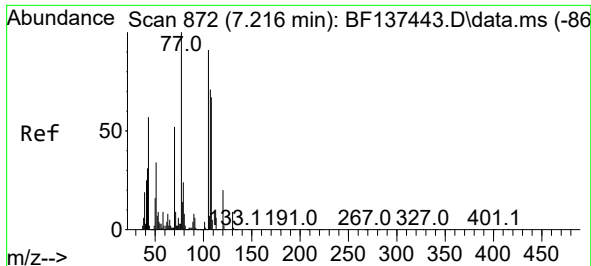
Tgt Ion: 99 Resp: 1897756
Ion Ratio Lower Upper
99 100
42 17.9 14.6 21.8
71 32.1 25.3 37.9



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.286 min Scan# 1054
Delta R.T. 0.112 min
Lab File: BF137584.D
Acq: 13 Mar 2024 19:02

Tgt Ion: 136 Resp: 822307
Ion Ratio Lower Upper
136 100
137 10.9 9.1 13.7
54 10.0 8.5 12.7
68 8.5 7.4 11.2

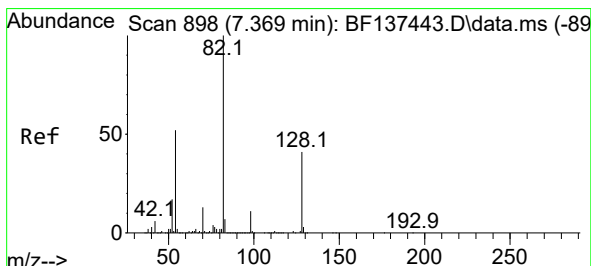
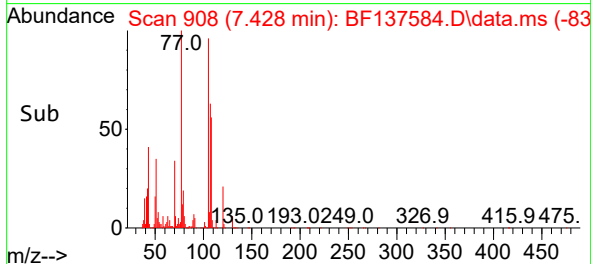
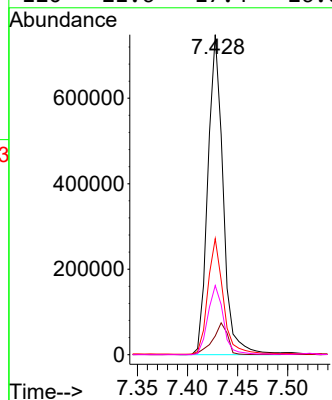
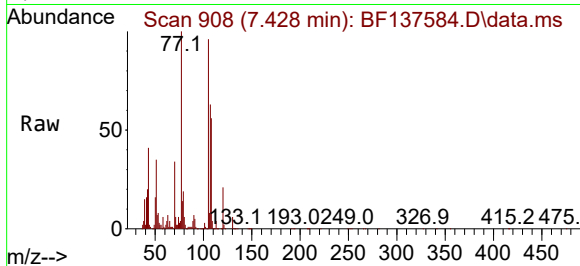




#22
Acetophenone
Concen: 40.017 ng
RT: 7.428 min Scan# 90
Delta R.T. 0.112 min
Lab File: BF137584.D
Acq: 13 Mar 2024 19:02

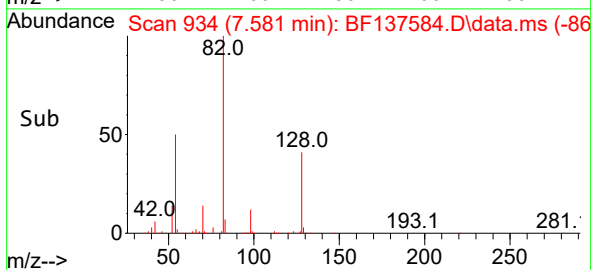
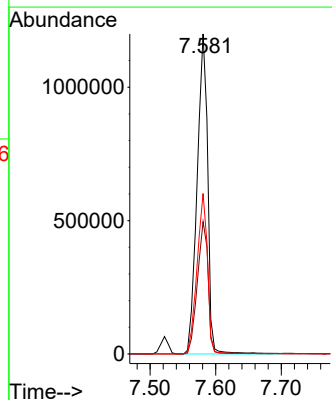
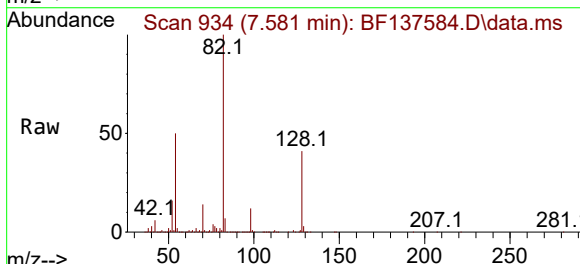
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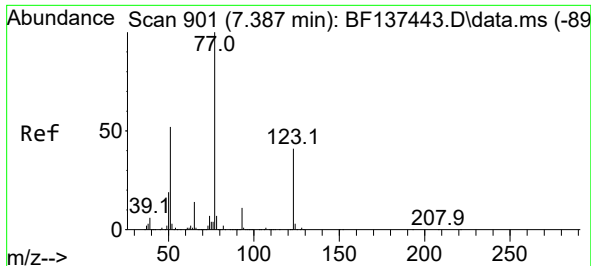
Tgt Ion:105 Resp: 796181
Ion Ratio Lower Upper
105 100
71 5.8 7.7 11.5#
51 36.3 30.4 45.6
120 21.6 17.4 26.0



#23
Nitrobenzene-d5
Concen: 76.154 ng
RT: 7.581 min Scan# 934
Delta R.T. 0.112 min
Lab File: BF137584.D
Acq: 13 Mar 2024 19:02

Tgt Ion: 82 Resp: 1347741
Ion Ratio Lower Upper
82 100
128 41.3 32.5 48.7
54 50.1 41.5 62.3

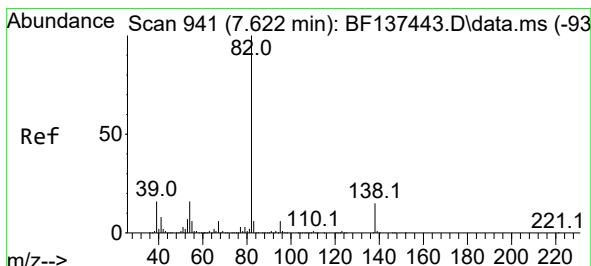
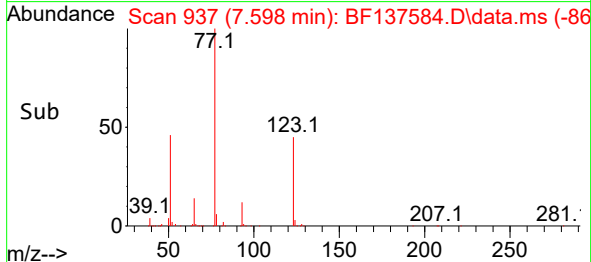
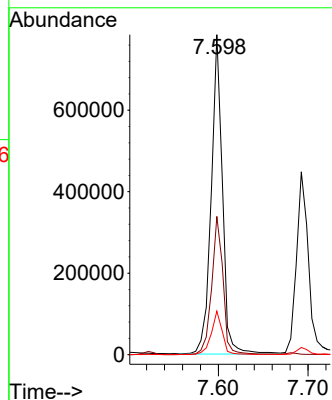
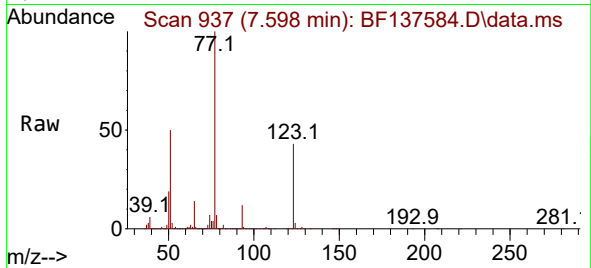




#24
Nitrobenzene
Concen: 38.434 ng
RT: 7.598 min Scan# 911
Delta R.T. 0.112 min
Lab File: BF137584.D
Acq: 13 Mar 2024 19:02

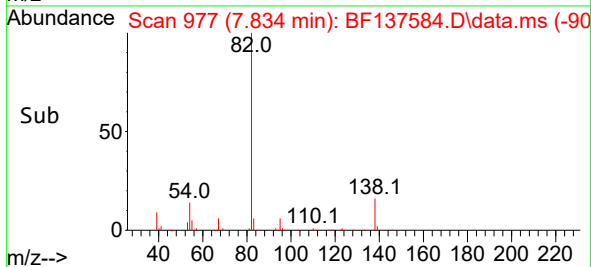
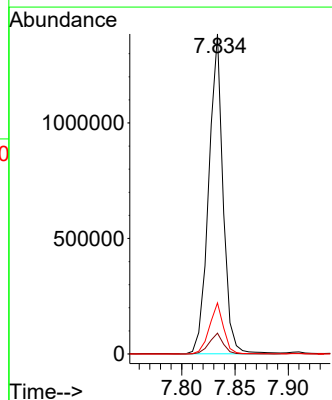
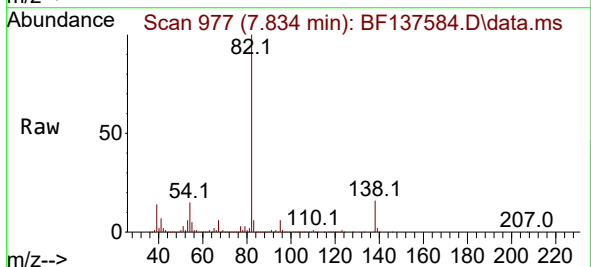
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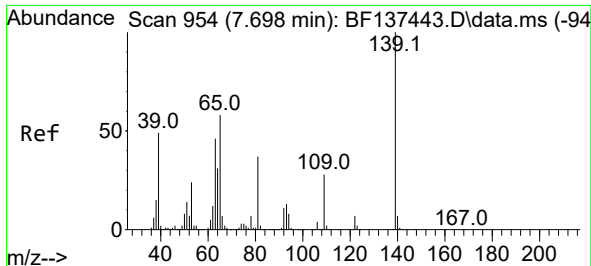
Tgt Ion: 77 Resp: 683291
Ion Ratio Lower Upper
77 100
123 43.2 33.0 49.6
65 13.6 10.9 16.3



#25
Isophorone
Concen: 38.646 ng
RT: 7.834 min Scan# 977
Delta R.T. 0.112 min
Lab File: BF137584.D
Acq: 13 Mar 2024 19:02

Tgt Ion: 82 Resp: 1299371
Ion Ratio Lower Upper
82 100
95 6.5 5.1 7.7
138 16.0 11.8 17.8

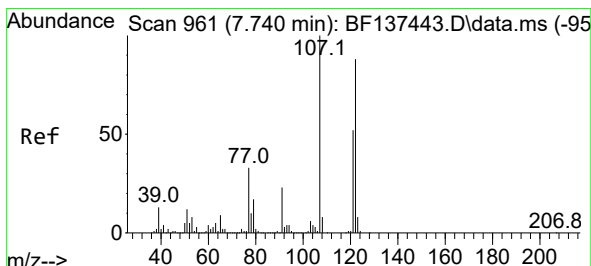
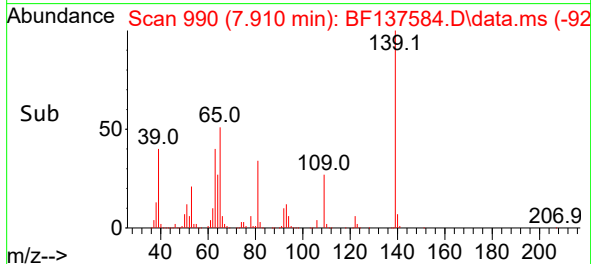
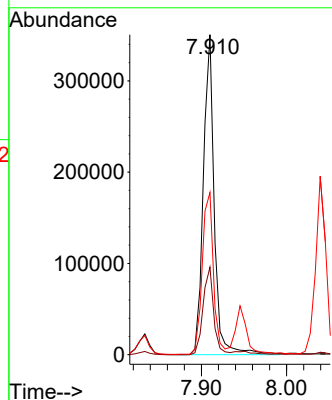
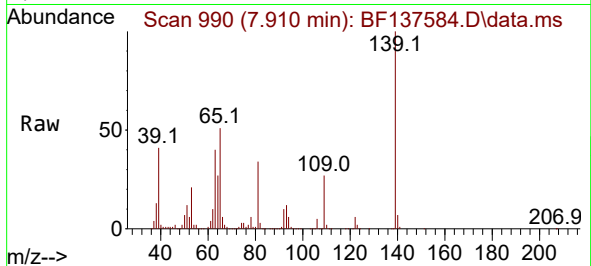




#26
2-Nitrophenol
Concen: 44.278 ng
RT: 7.910 min Scan# 910
Delta R.T. 0.112 min
Lab File: BF137584.D
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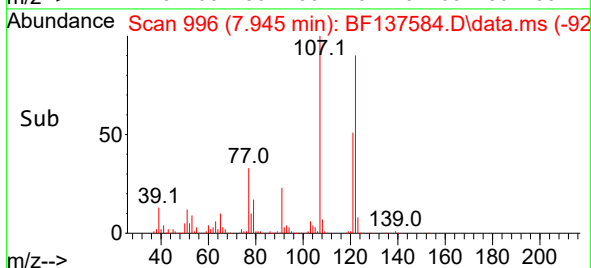
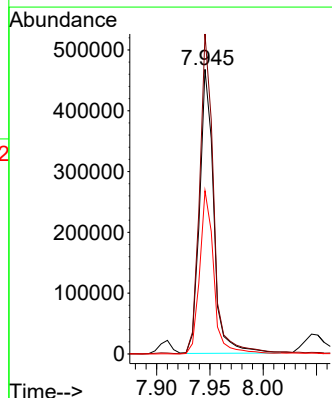
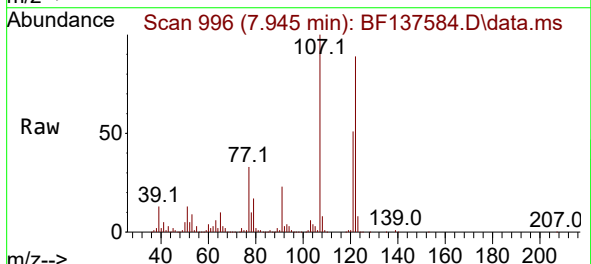
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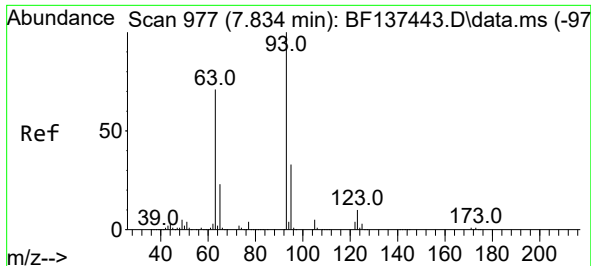
Tgt Ion:139 Resp: 312523
Ion Ratio Lower Upper
139 100
109 27.4 22.2 33.4
65 50.7 46.2 69.2



#27
2,4-Dimethylphenol
Concen: 32.766 ng
RT: 7.945 min Scan# 996
Delta R.T. 0.106 min
Lab File: BF137584.D
Acq: 13 Mar 2024 19:02

Tgt Ion:122 Resp: 432135
Ion Ratio Lower Upper
122 100
107 112.4 90.9 136.3
121 57.3 47.0 70.6

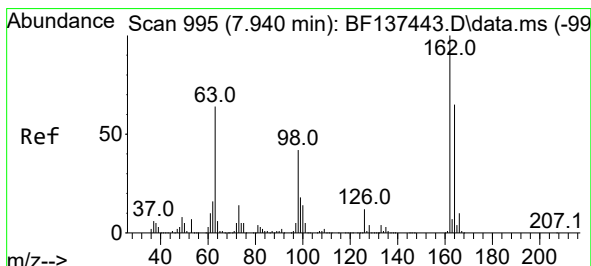
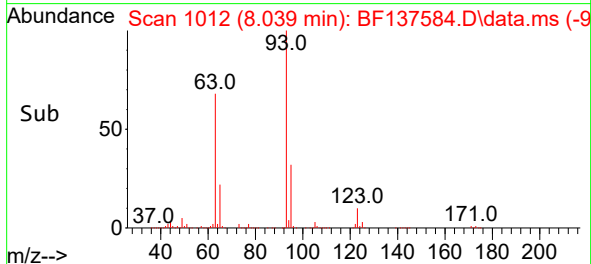
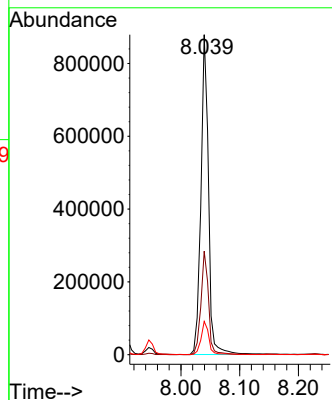
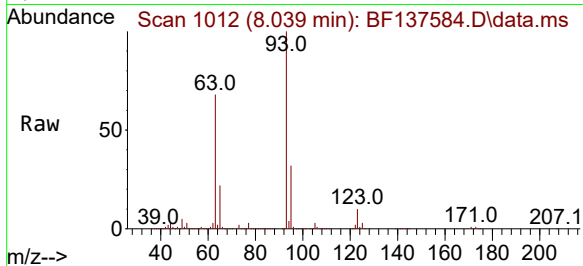




#28
bis(2-Chloroethoxy)methane
Concen: 39.808 ng
RT: 8.039 min Scan# 1012
Delta R.T. 0.106 min
Lab File: BF137584.D
Acq: 13 Mar 2024 19:02

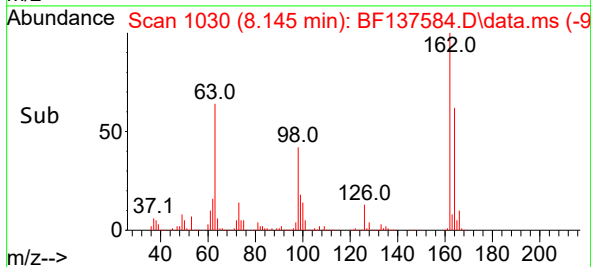
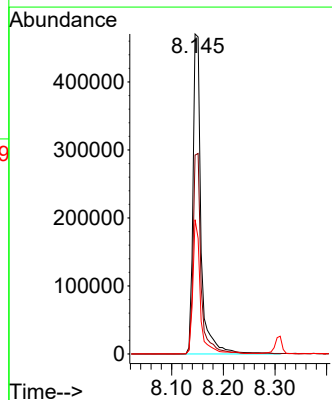
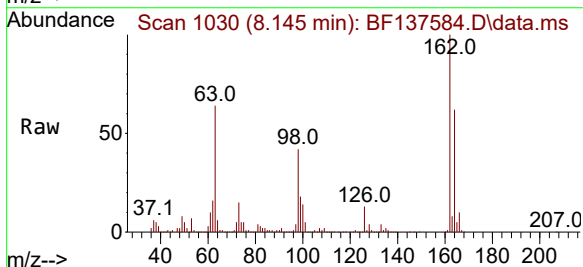
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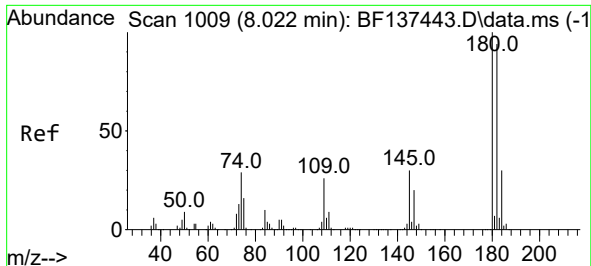
Tgt Ion: 93 Resp: 785315
Ion Ratio Lower Upper
93 100
95 32.4 26.5 39.7
123 10.4 8.0 12.0



#29
2,4-Dichlorophenol
Concen: 42.253 ng
RT: 8.145 min Scan# 1030
Delta R.T. 0.106 min
Lab File: BF137584.D
Acq: 13 Mar 2024 19:02

Tgt Ion: 162 Resp: 511435
Ion Ratio Lower Upper
162 100
164 62.1 44.7 84.7
98 41.9 22.0 62.0





#30

1,2,4-Trichlorobenzene

Concen: 40.609 ng

RT: 8.228 min Scan# 1044

Delta R.T. 0.112 min

Lab File: BF137584.D

Acq: 13 Mar 2024 19:02

Instrument :

BNA_F

ClientSampleId :

RT-3860MSD

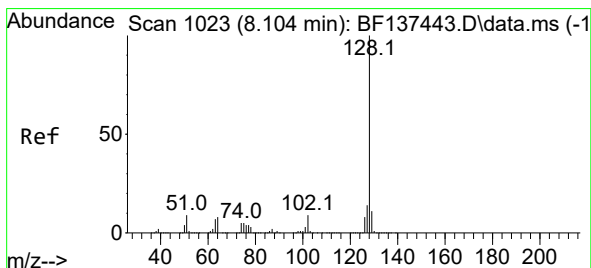
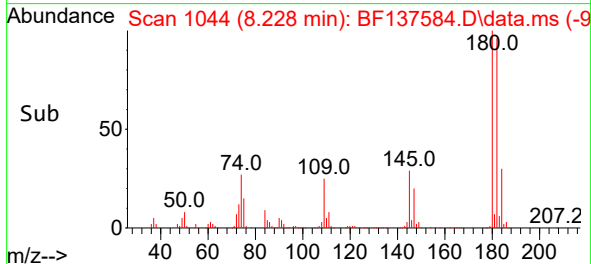
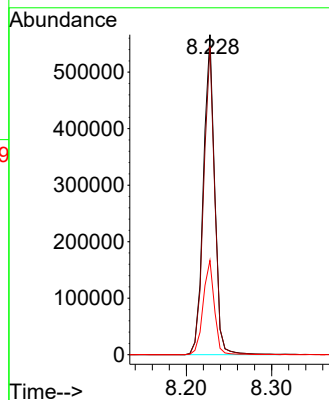
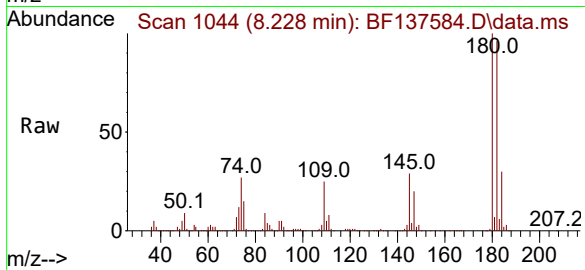
Tgt Ion:180 Resp: 517269

Ion Ratio Lower Upper

180 100

182 96.3 75.0 112.6

145 29.5 23.7 35.5



#31

Naphthalene

Concen: 39.256 ng

RT: 8.310 min Scan# 1058

Delta R.T. 0.112 min

Lab File: BF137584.D

Acq: 13 Mar 2024 19:02

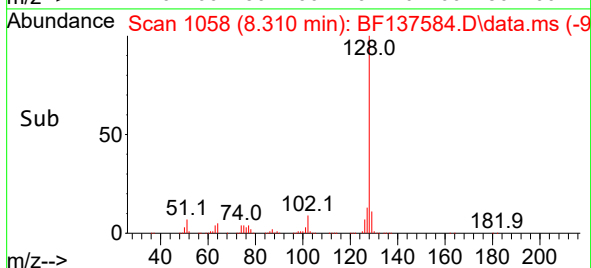
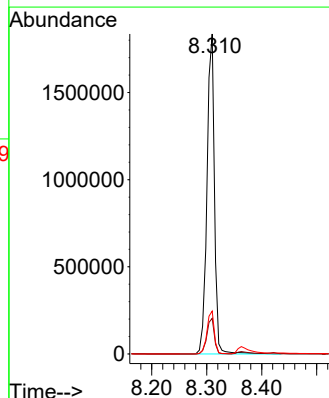
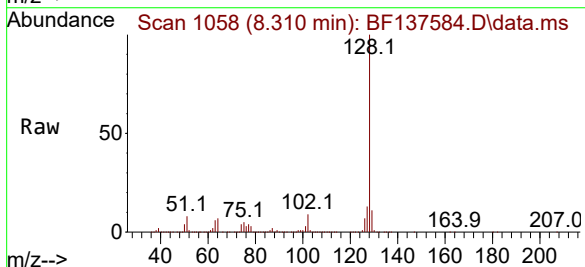
Tgt Ion:128 Resp: 1731975

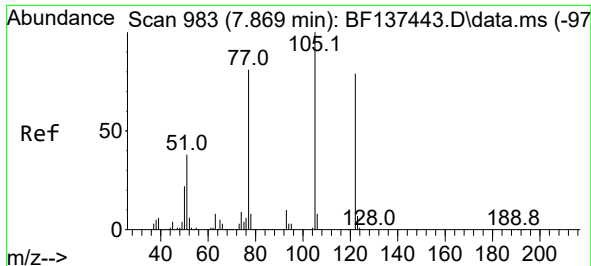
Ion Ratio Lower Upper

128 100

129 11.1 9.2 13.8

127 13.4 10.8 16.2

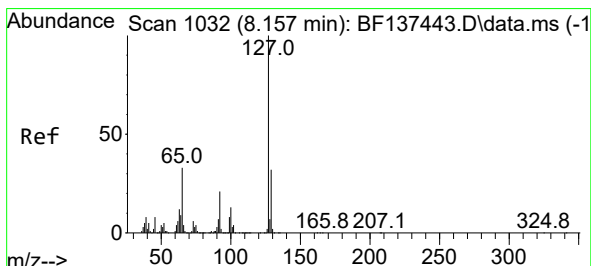
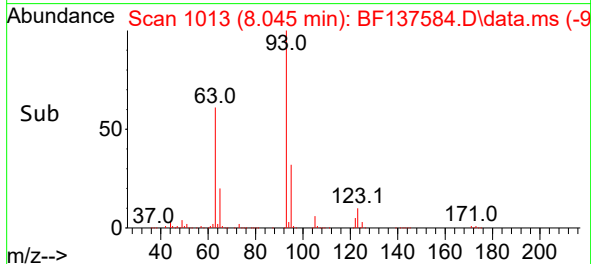
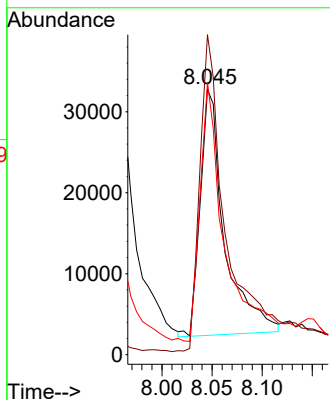
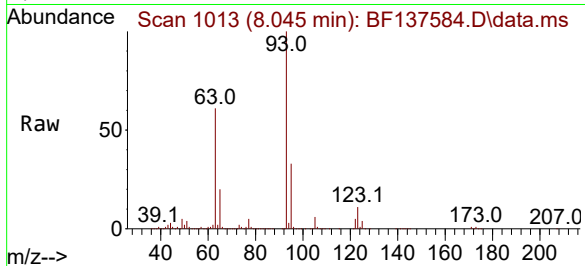




#32
Benzoic acid
Concen: 12.141 ng
RT: 8.045 min Scan# 1013
Delta R.T. 0.065 min
Lab File: BF137584.D
Acq: 13 Mar 2024 19:02

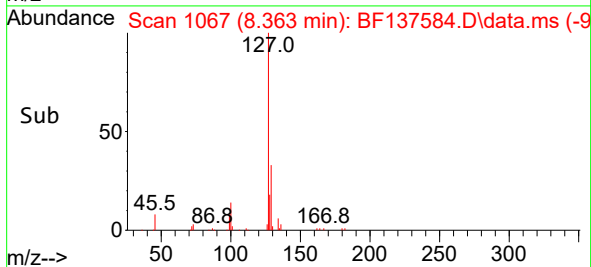
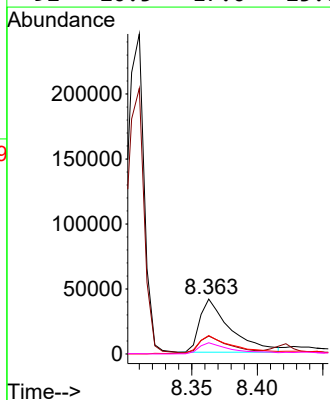
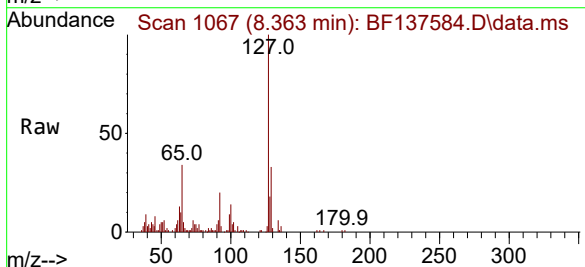
Instrument :
BNA_F
ClientSampleId :
RT-3860MSD

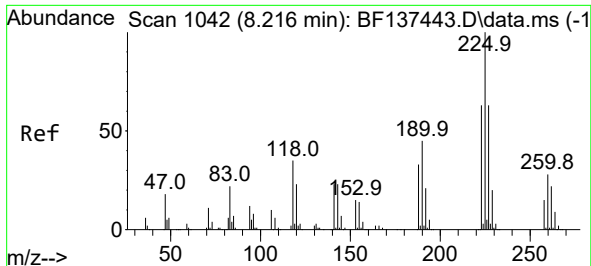
Tgt Ion:122 Resp: 51074
Ion Ratio Lower Upper
122 100
105 120.6 102.4 142.4
77 102.6 81.1 121.1



#33
4-Chloroaniline
Concen: 3.847 ng
RT: 8.363 min Scan# 1067
Delta R.T. 0.112 min
Lab File: BF137584.D
Acq: 13 Mar 2024 19:02

Tgt Ion:127 Resp: 66556
Ion Ratio Lower Upper
127 100
129 32.7 26.0 39.0
65 33.6 26.8 40.2
92 20.5 17.0 25.6

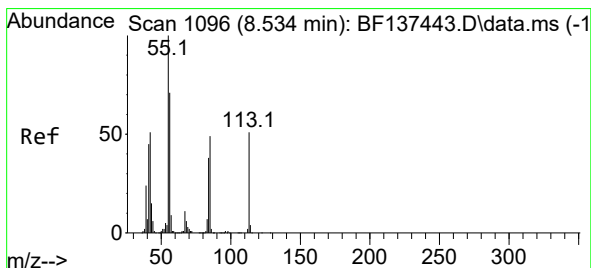
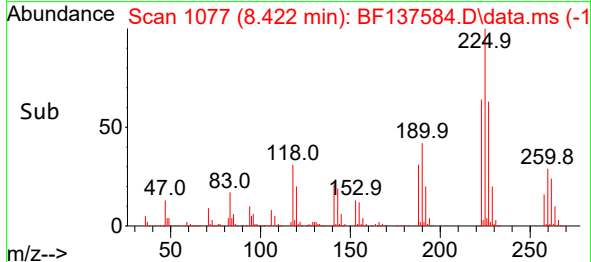
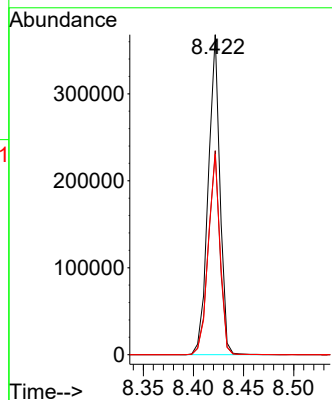
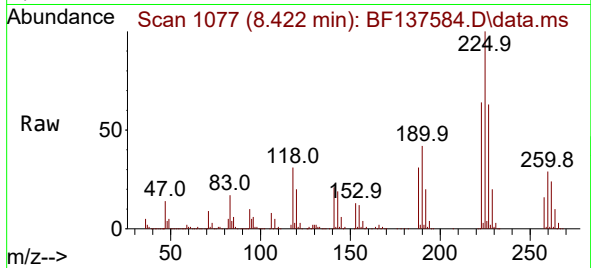




#34
Hexachlorobutadiene
Concen: 39.945 ng
RT: 8.422 min Scan# 1042
Delta R.T. 0.112 min
Lab File: BF137584.D
Acq: 13 Mar 2024 19:02

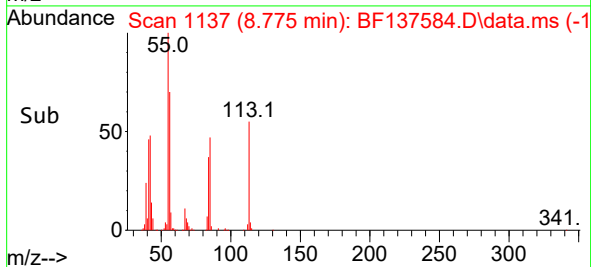
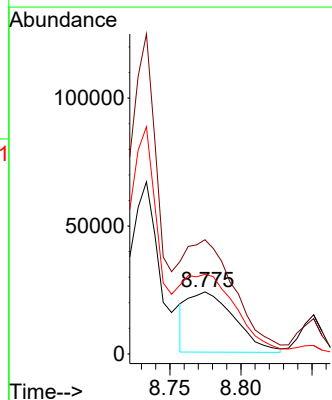
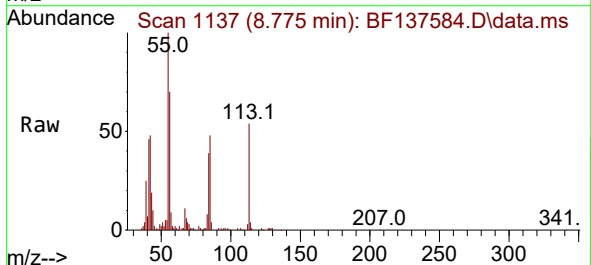
Instrument :
BNA_F
ClientSampleId :
RT-3860MSD

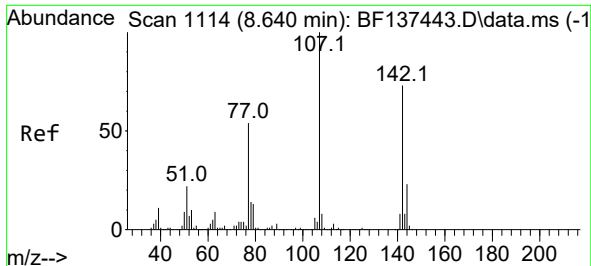
Tgt Ion:225 Resp: 300387
Ion Ratio Lower Upper
225 100
223 63.8 50.7 76.1
227 62.6 50.6 75.8



#35
Caprolactam
Concen: 13.137 ng
RT: 8.775 min Scan# 1137
Delta R.T. 0.135 min
Lab File: BF137584.D
Acq: 13 Mar 2024 19:02

Tgt Ion:113 Resp: 53919
Ion Ratio Lower Upper
113 100
55 184.3 176.7 216.7
56 128.4 120.6 160.6

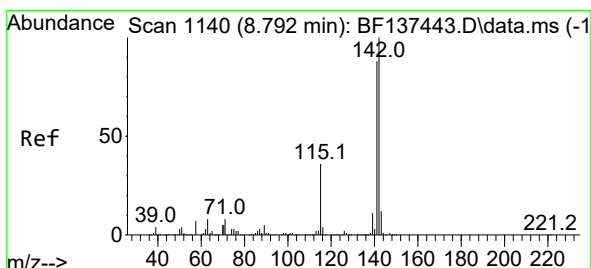
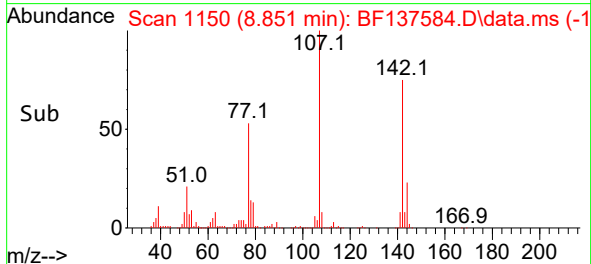
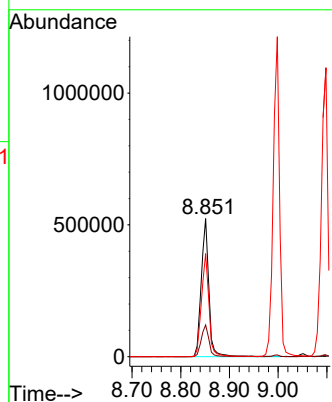
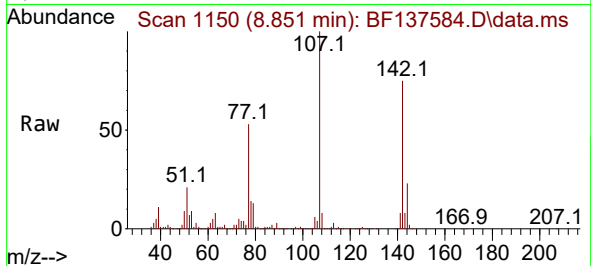




#36
4-Chloro-3-methylphenol
Concen: 42.487 ng
RT: 8.851 min Scan# 1114
Delta R.T. 0.112 min
Lab File: BF137584.D
Acq: 13 Mar 2024 19:02

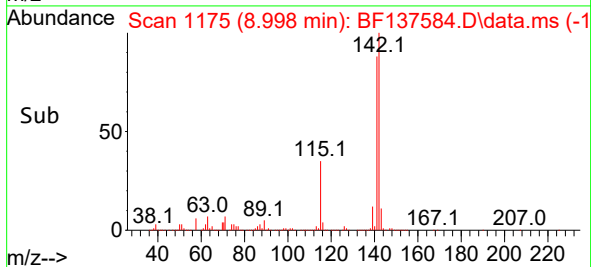
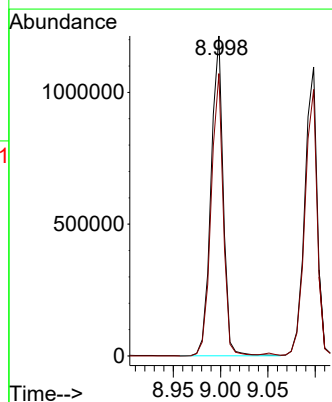
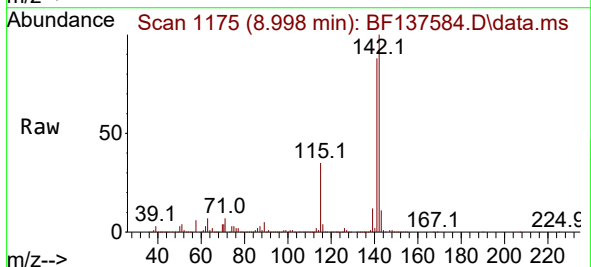
Instrument :
BNA_F
ClientSampleId :
RT-3860MSD

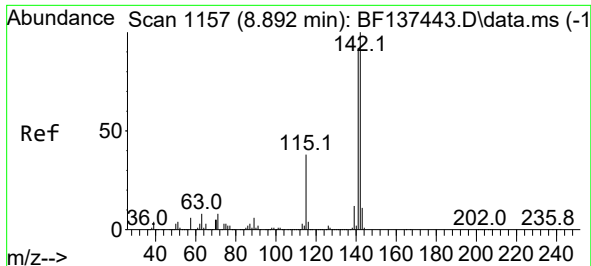
Tgt Ion:107 Resp: 574840
Ion Ratio Lower Upper
107 100
144 22.9 18.7 28.1
142 74.6 58.2 87.2



#37
2-Methylnaphthalene
Concen: 38.506 ng
RT: 8.998 min Scan# 1175
Delta R.T. 0.106 min
Lab File: BF137584.D
Acq: 13 Mar 2024 19:02

Tgt Ion:142 Resp: 1083018
Ion Ratio Lower Upper
142 100
141 88.2 70.4 105.6





#38

1-Methylnaphthalene

Concen: 37.907 ng

RT: 9.098 min Scan# 1157

Delta R.T. 0.112 min

Lab File: BF137584.D

Acq: 13 Mar 2024 19:02

Instrument :

BNA_F

ClientSampleId :

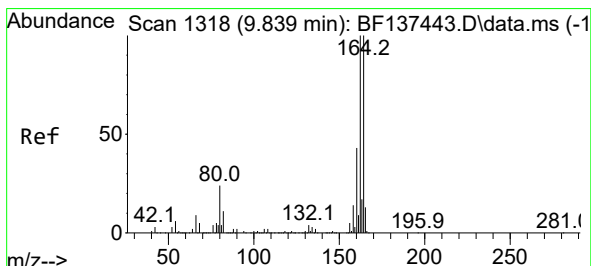
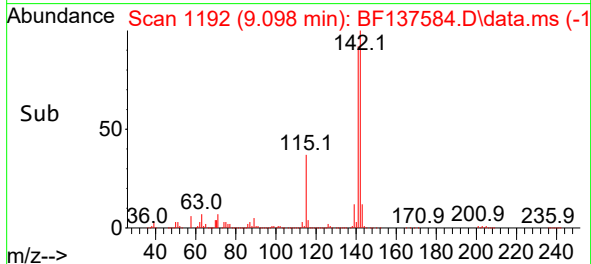
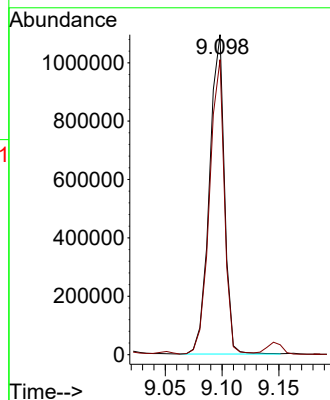
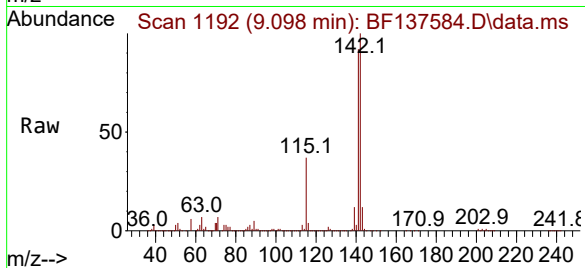
RT-3860MSD

Tgt Ion:142 Resp: 1004047

Ion Ratio Lower Upper

142 100

141 92.2 73.4 110.2



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 10.039 min Scan# 1352

Delta R.T. 0.106 min

Lab File: BF137584.D

Acq: 13 Mar 2024 19:02

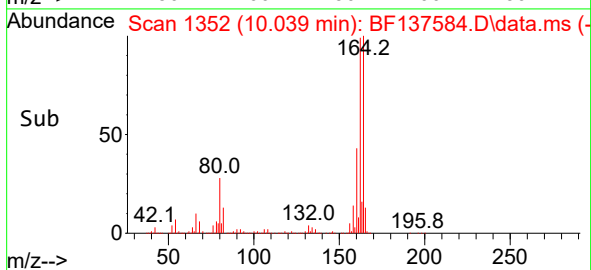
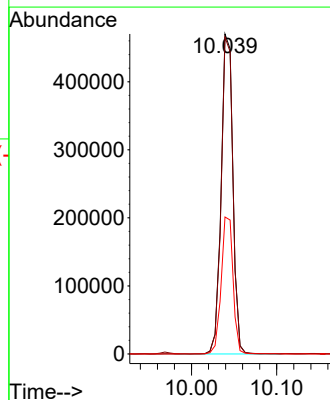
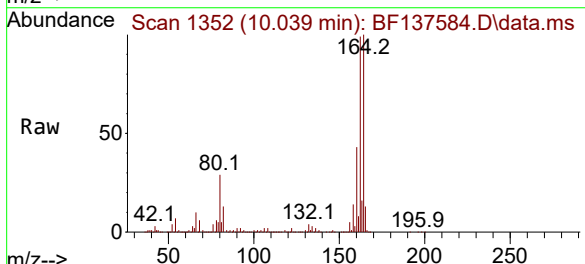
Tgt Ion:164 Resp: 448946

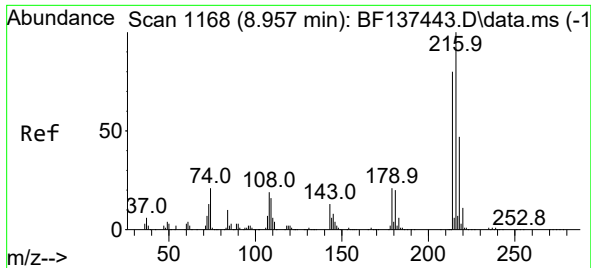
Ion Ratio Lower Upper

164 100

162 99.0 79.8 119.8

160 42.8 34.4 51.6

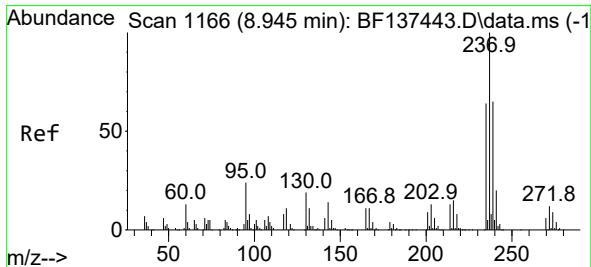
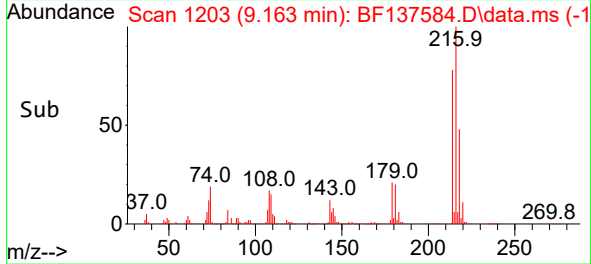
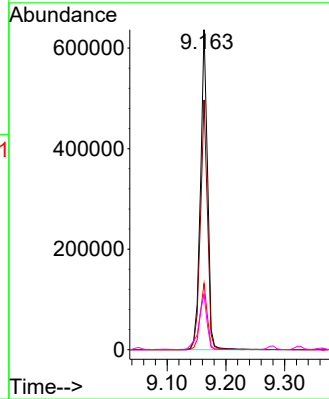
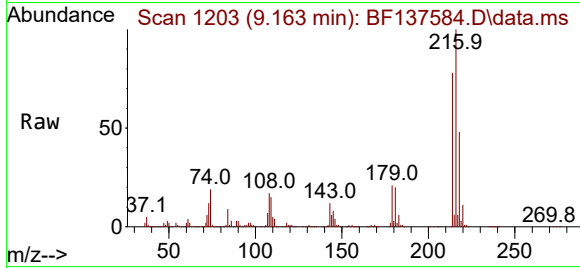




#40
1,2,4,5-Tetrachlorobenzene
Concen: 42.531 ng
RT: 9.163 min Scan# 1168
Delta R.T. 0.106 min
Lab File: BF137584.D
Acq: 13 Mar 2024 19:02

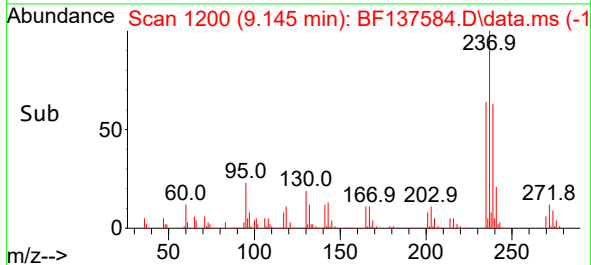
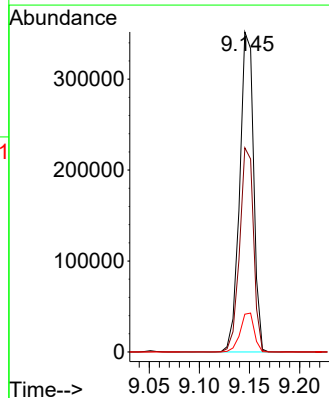
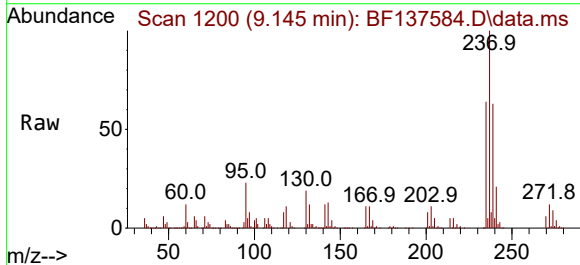
Instrument :
BNA_F
ClientSampleId :
RT-3860MSD

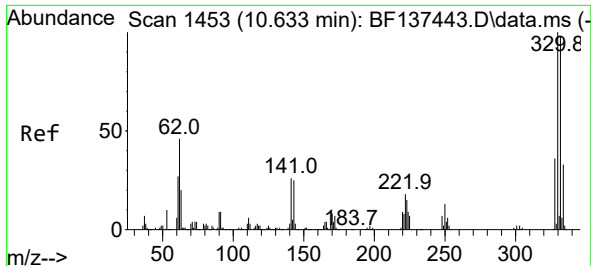
Tgt Ion:	216	Resp:	533066
Ion Ratio	Lower	Upper	
216	100		
214	78.1	63.5	95.3
179	20.6	16.6	25.0
108	19.8	15.5	23.3



#41
Hexachlorocyclopentadiene
Concen: 68.173 ng
RT: 9.145 min Scan# 1200
Delta R.T. 0.106 min
Lab File: BF137584.D
Acq: 13 Mar 2024 19:02

Tgt Ion:	237	Resp:	341744
Ion Ratio	Lower	Upper	
237	100		
235	63.8	43.6	83.6
272	11.8	0.0	31.9

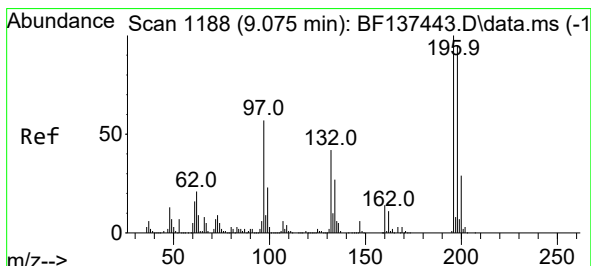
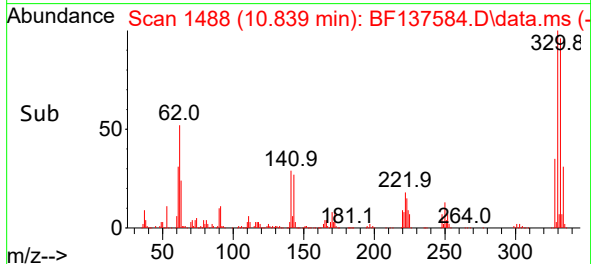
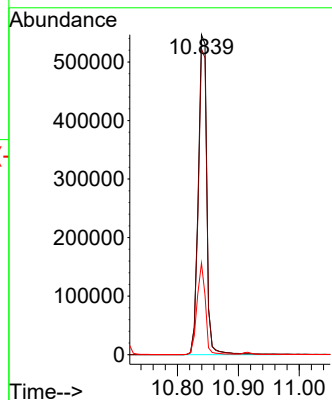
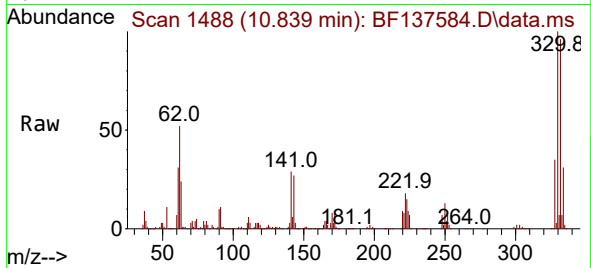




#42
2,4,6-Tribromophenol
Concen: 135.073 ng
RT: 10.839 min Scan# 1453
Delta R.T. 0.106 min
Lab File: BF137584.D
Acq: 13 Mar 2024 19:02

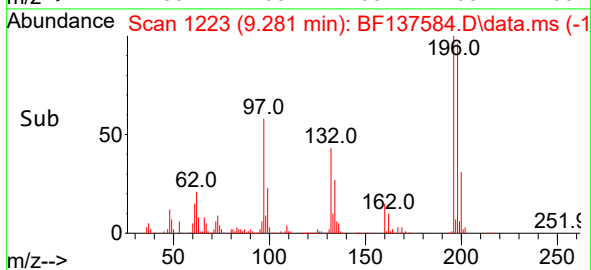
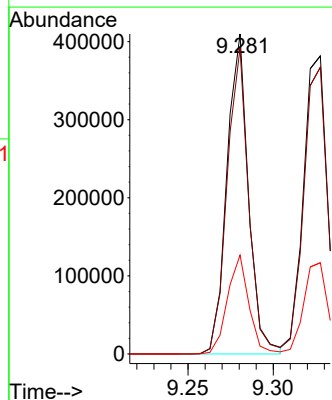
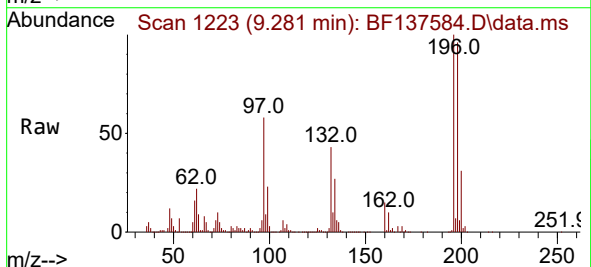
Instrument :
BNA_F
ClientSampleId :
RT-3860MSD

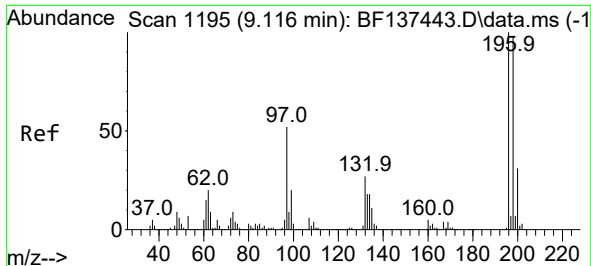
Tgt Ion:330 Resp: 532530
Ion Ratio Lower Upper
330 100
332 95.8 78.0 117.0
141 27.9 27.3 40.9



#43
2,4,6-Trichlorophenol
Concen: 44.250 ng
RT: 9.281 min Scan# 1223
Delta R.T. 0.112 min
Lab File: BF137584.D
Acq: 13 Mar 2024 19:02

Tgt Ion:196 Resp: 361160
Ion Ratio Lower Upper
196 100
198 95.6 75.8 113.8
200 30.9 23.5 35.3

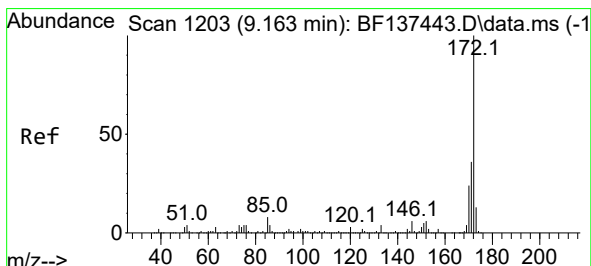
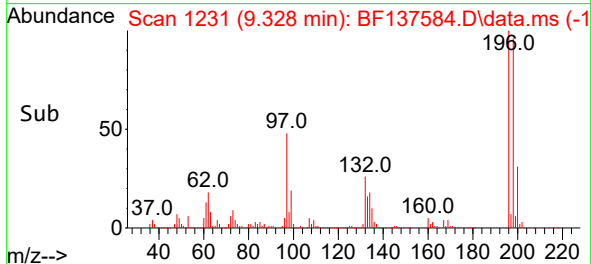
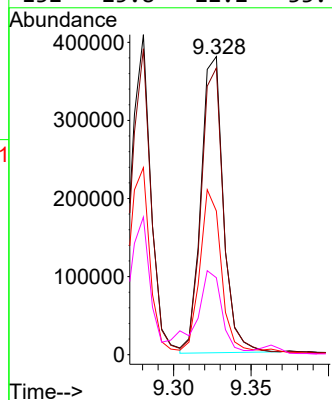
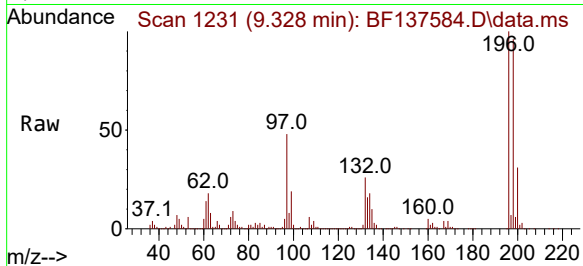




#44
2,4,5-Trichlorophenol
Concen: 40.550 ng
RT: 9.328 min Scan# 1195
Delta R.T. 0.118 min
Lab File: BF137584.D
Acq: 13 Mar 2024 19:02

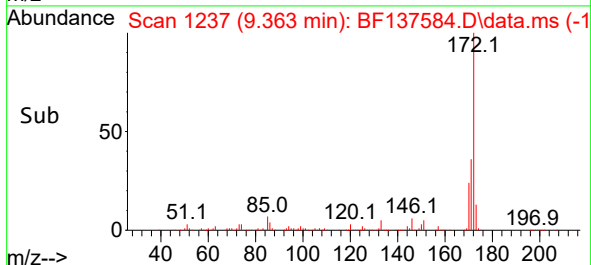
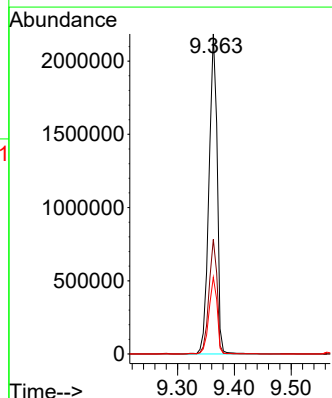
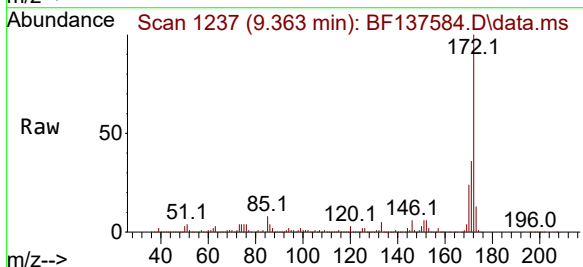
Instrument :
BNA_F
ClientSampleId :
RT-3860MSD

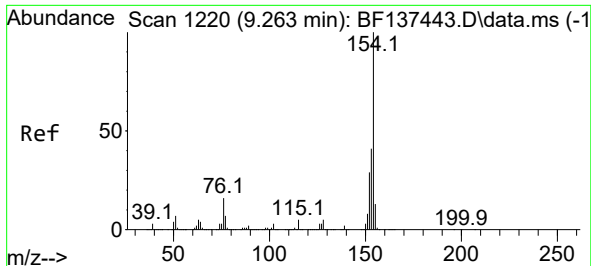
Tgt Ion:196 Resp: 381251
Ion Ratio Lower Upper
196 100
198 96.2 78.6 117.8
97 48.2 41.8 62.8
132 25.8 22.2 33.4



#45
2-Fluorobiphenyl
Concen: 76.155 ng
RT: 9.363 min Scan# 1237
Delta R.T. 0.106 min
Lab File: BF137584.D
Acq: 13 Mar 2024 19:02

Tgt Ion:172 Resp: 2184119
Ion Ratio Lower Upper
172 100
171 35.8 28.5 42.7
170 24.0 19.0 28.6

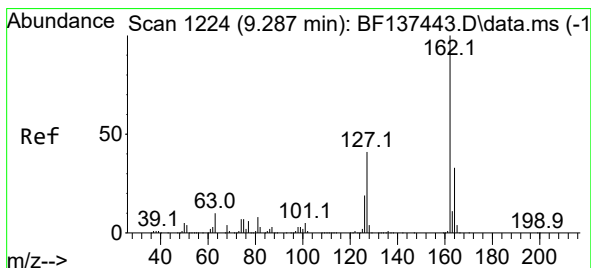
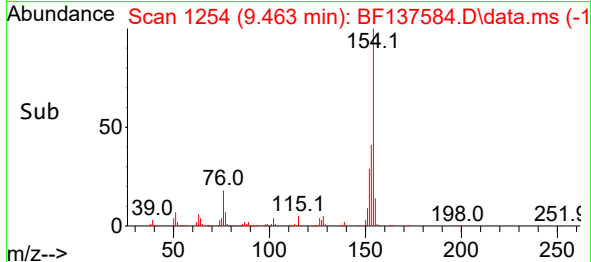
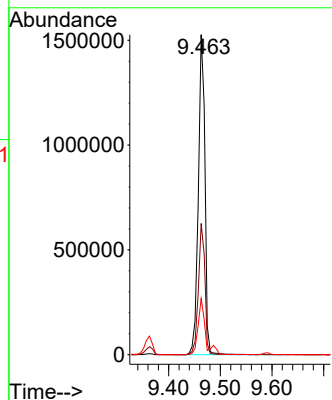
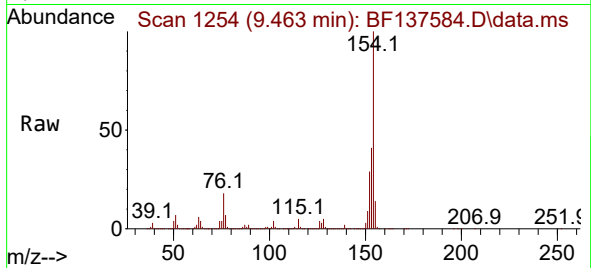




#46
1,1'-Biphenyl
Concen: 41.015 ng
RT: 9.463 min Scan# 11
Delta R.T. 0.106 min
Lab File: BF137584.D
Acq: 13 Mar 2024 19:02

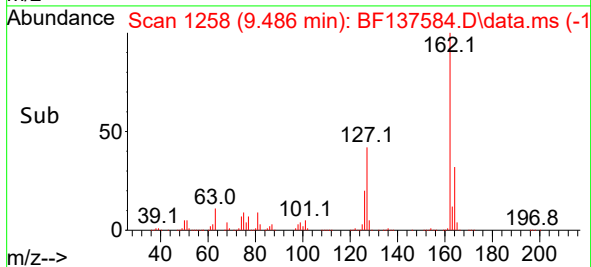
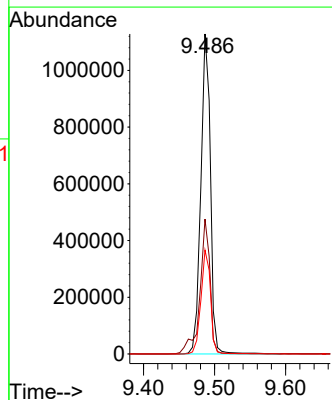
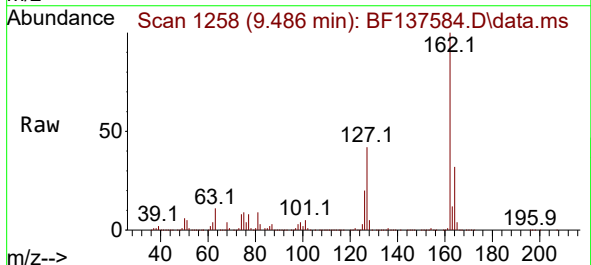
Instrument :
BNA_F
ClientSampleId :
RT-3860MSD

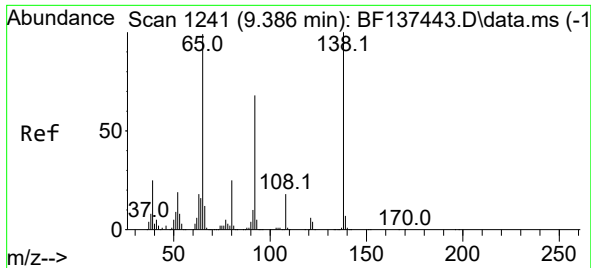
Tgt Ion:154 Resp: 1347703
Ion Ratio Lower Upper
154 100
153 41.0 21.0 61.0
76 17.6 0.0 35.8



#47
2-Chloronaphthalene
Concen: 42.421 ng
RT: 9.486 min Scan# 1258
Delta R.T. 0.106 min
Lab File: BF137584.D
Acq: 13 Mar 2024 19:02

Tgt Ion:162 Resp: 1062742
Ion Ratio Lower Upper
162 100
127 42.2 32.6 49.0
164 32.4 26.5 39.7

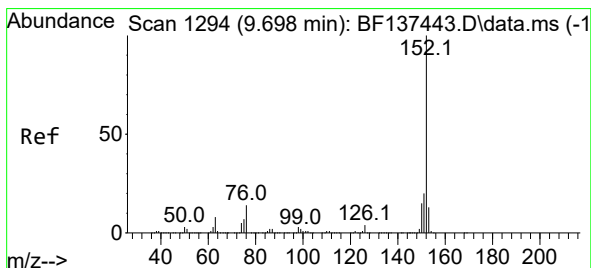
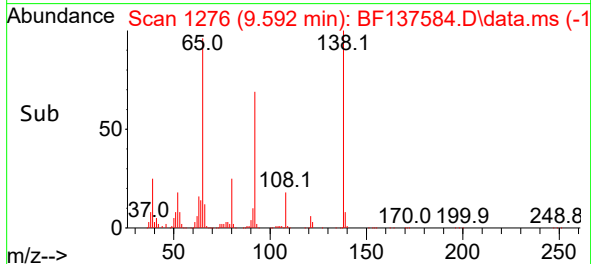
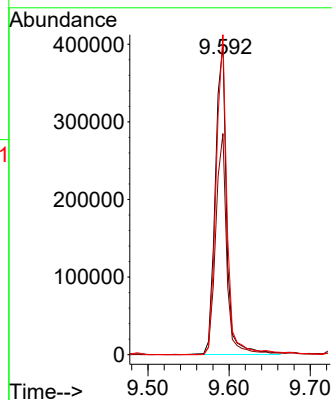
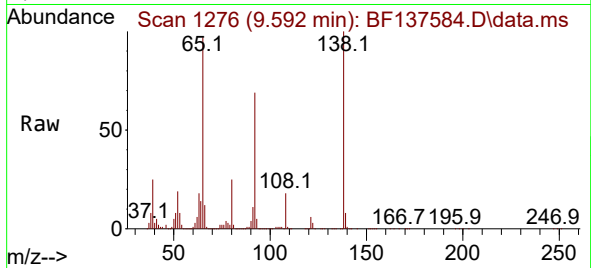




#48
2-Nitroaniline
Concen: 45.307 ng
RT: 9.592 min Scan# 1326
Delta R.T. 0.112 min
Lab File: BF137584.D
Acq: 13 Mar 2024 19:02

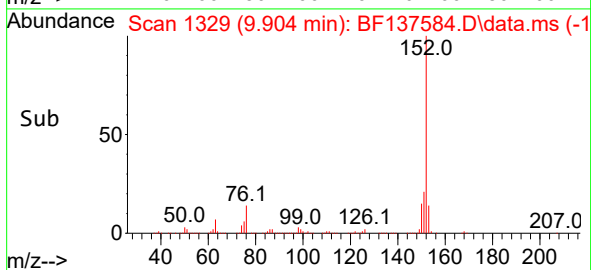
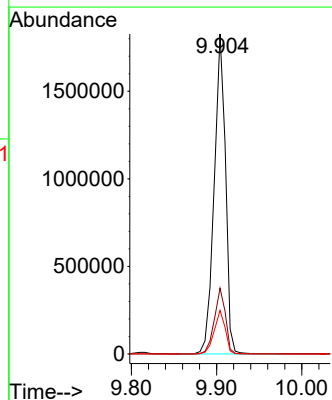
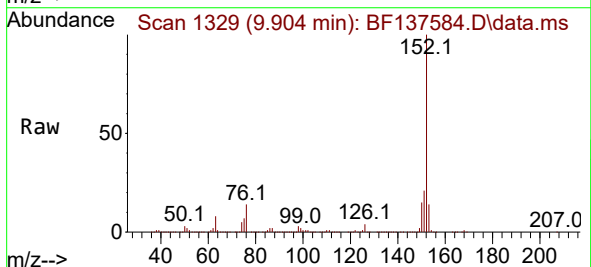
Instrument :
BNA_F
ClientSampleId :
RT-3860MSD

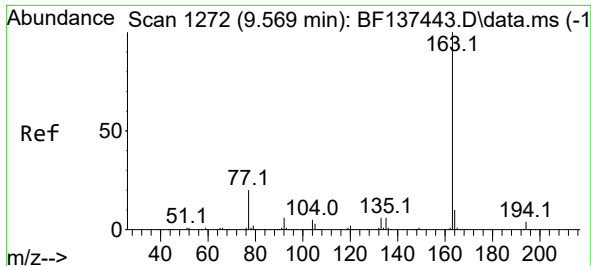
Tgt Ion: 65 Resp: 385787
Ion Ratio Lower Upper
65 100
92 71.4 55.4 83.2
138 103.3 81.0 121.6



#49
Acenaphthylene
Concen: 42.058 ng
RT: 9.904 min Scan# 1329
Delta R.T. 0.106 min
Lab File: BF137584.D
Acq: 13 Mar 2024 19:02

Tgt Ion: 152 Resp: 1686208
Ion Ratio Lower Upper
152 100
151 20.5 16.2 24.4
153 13.6 10.8 16.2

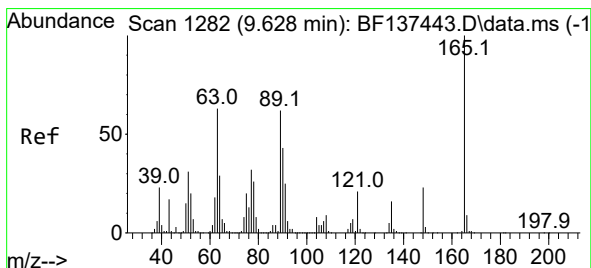
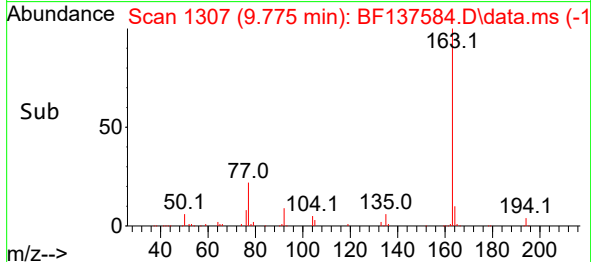
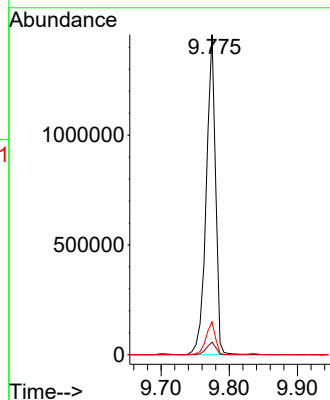
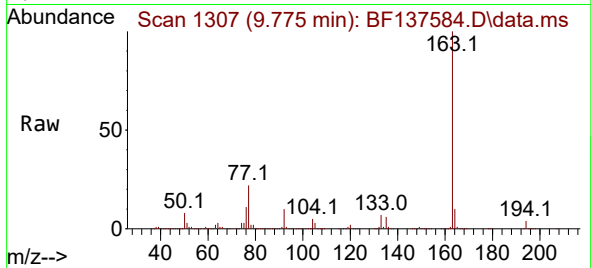




#50
Dimethylphthalate
Concen: 44.228 ng
RT: 9.775 min Scan# 11
Delta R.T. 0.106 min
Lab File: BF137584.D
Acq: 13 Mar 2024 19:02

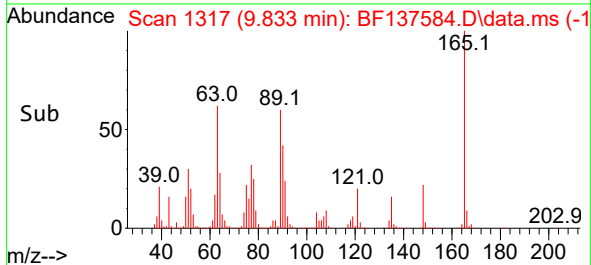
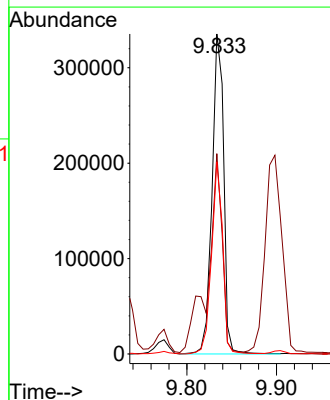
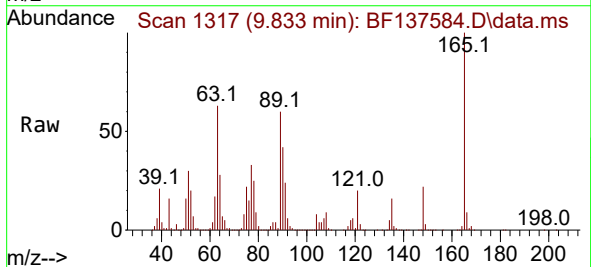
Instrument :
BNA_F
ClientSampleId :
RT-3860MSD

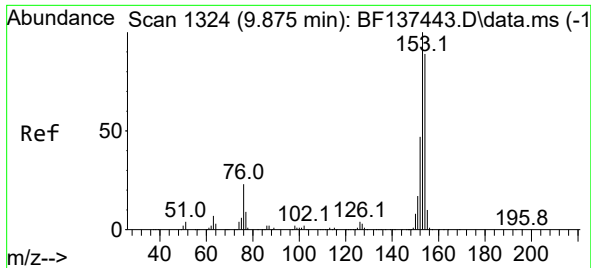
Tgt Ion:163 Resp: 1382210
Ion Ratio Lower Upper
163 100
194 3.9 3.3 4.9
164 10.2 8.1 12.1



#51
2,6-Dinitrotoluene
Concen: 46.229 ng
RT: 9.833 min Scan# 1317
Delta R.T. 0.106 min
Lab File: BF137584.D
Acq: 13 Mar 2024 19:02

Tgt Ion:165 Resp: 302180
Ion Ratio Lower Upper
165 100
63 62.6 50.7 76.1
89 60.0 50.0 75.0

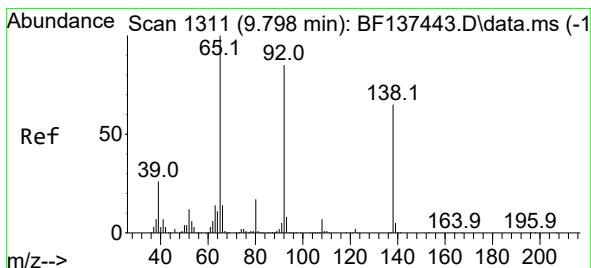
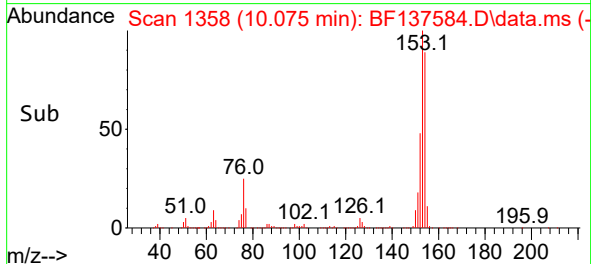
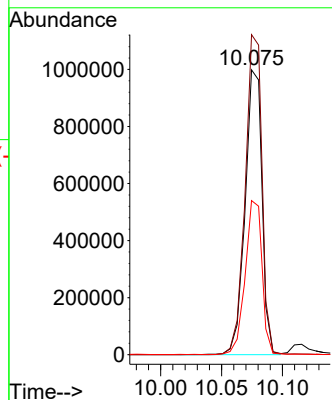
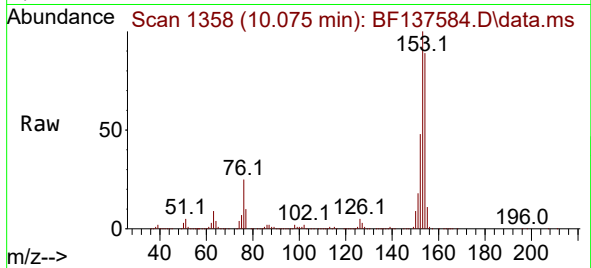




#52
Acenaphthene
Concen: 40.360 ng
RT: 10.075 min Scan# 1358
Delta R.T. 0.106 min
Lab File: BF137584.D
Acq: 13 Mar 2024 19:02

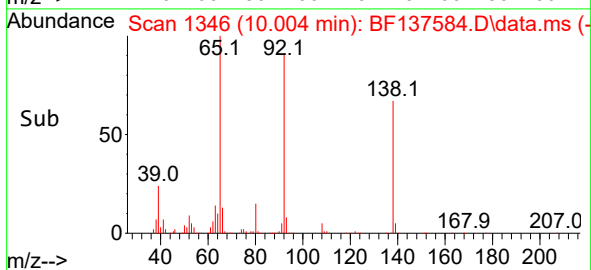
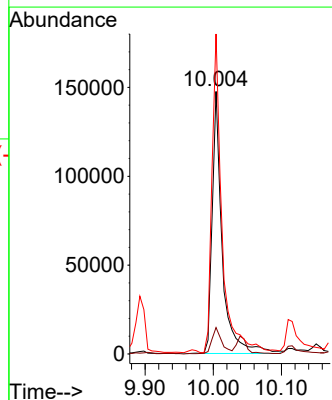
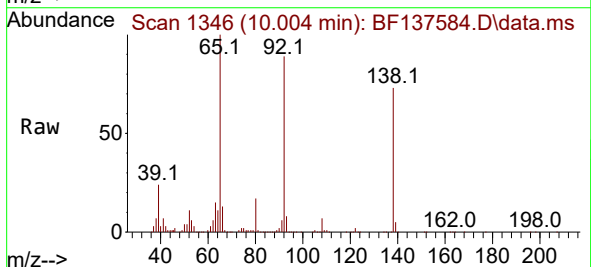
Instrument :
BNA_F
ClientSampleId :
RT-3860MSD

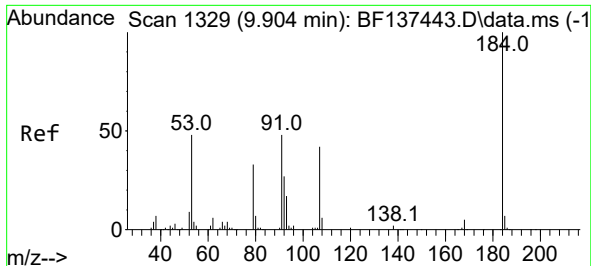
Tgt Ion:154 Resp: 966034
Ion Ratio Lower Upper
154 100
153 112.4 90.3 135.5
152 54.1 42.7 64.1



#53
3-Nitroaniline
Concen: 21.864 ng
RT: 10.004 min Scan# 1346
Delta R.T. 0.100 min
Lab File: BF137584.D
Acq: 13 Mar 2024 19:02

Tgt Ion:138 Resp: 151168
Ion Ratio Lower Upper
138 100
108 10.0 9.1 13.7
92 121.9 104.6 157.0

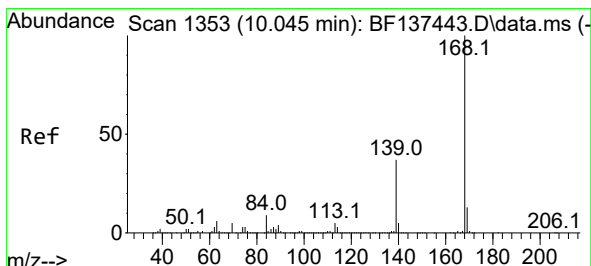
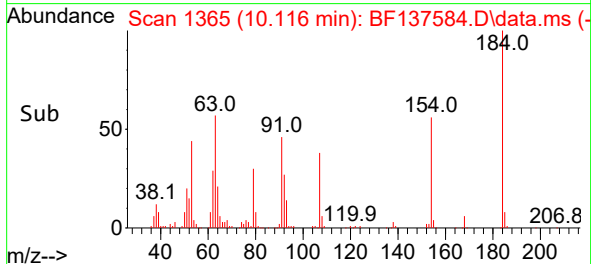
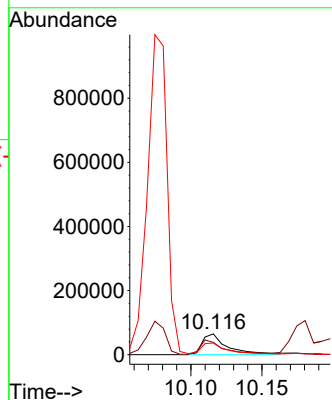
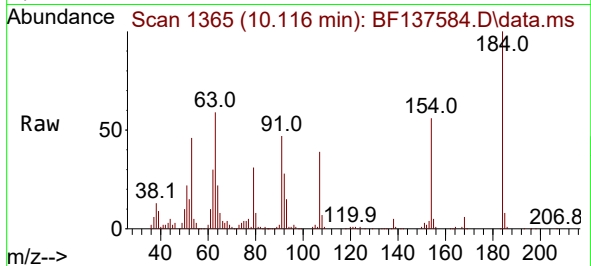




#54
2,4-Dinitrophenol
Concen: 30.732 ng
RT: 10.116 min Scan# 1
Delta R.T. 0.112 min
Lab File: BF137584.D
Acq: 13 Mar 2024 19:02

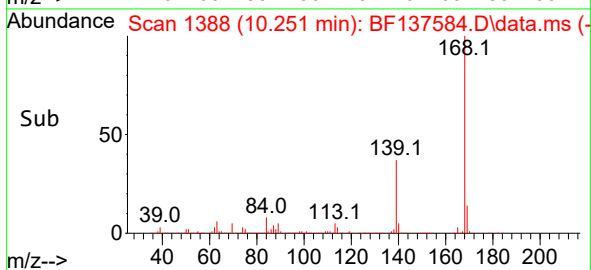
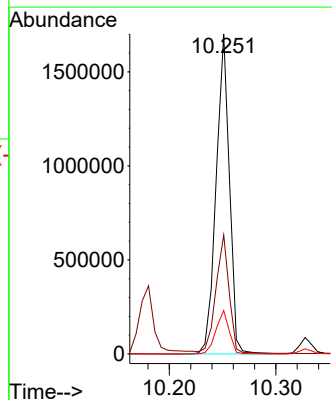
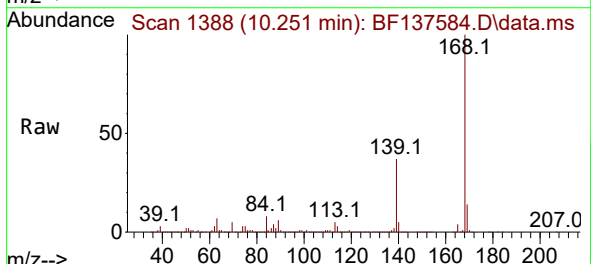
Instrument :
BNA_F
ClientSampleId :
RT-3860MSD

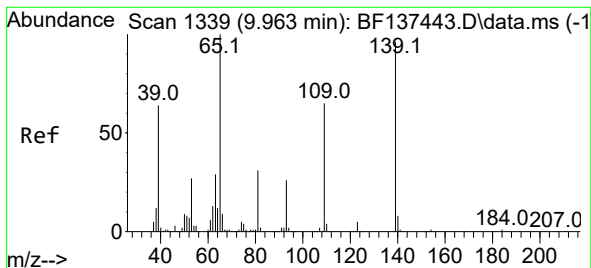
Tgt Ion:184 Resp: 79982
Ion Ratio Lower Upper
184 100
63 59.5 53.3 79.9
154 56.3 47.4 71.0



#55
Dibenzofuran
Concen: 40.283 ng
RT: 10.251 min Scan# 1388
Delta R.T. 0.106 min
Lab File: BF137584.D
Acq: 13 Mar 2024 19:02

Tgt Ion:168 Resp: 1468528
Ion Ratio Lower Upper
168 100
139 37.2 29.8 44.6
169 13.6 10.8 16.2





#56

4-Nitrophenol

Concen: 71.863 ng

RT: 10.180 min Scan# 1

Delta R.T. 0.118 min

Lab File: BF137584.D

Acq: 13 Mar 2024 19:02

Instrument :

BNA_F

ClientSampleId :

RT-3860MSD

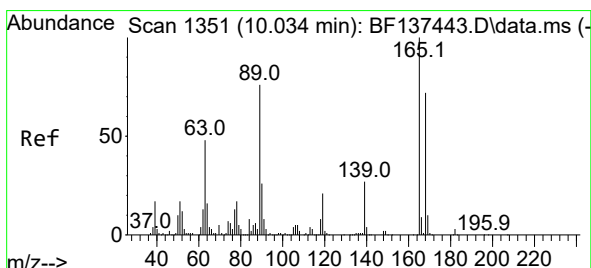
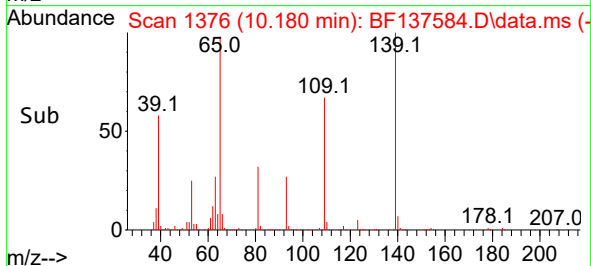
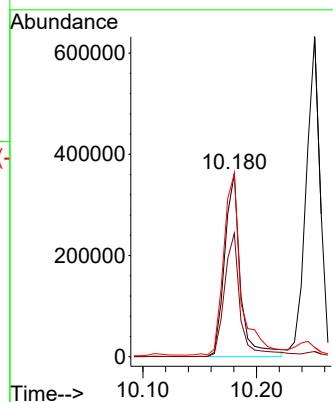
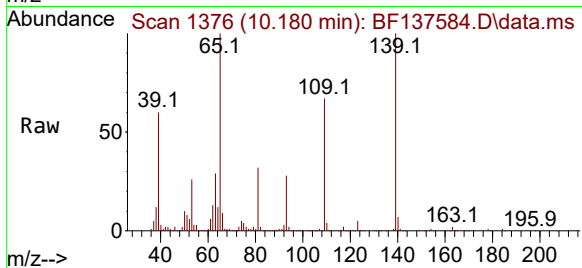
Tgt Ion:139 Resp: 351097

Ion Ratio Lower Upper

139 100

109 67.3 47.1 87.1

65 99.9 85.1 125.1



#57

2,4-Dinitrotoluene

Concen: 45.219 ng

RT: 10.245 min Scan# 1387

Delta R.T. 0.112 min

Lab File: BF137584.D

Acq: 13 Mar 2024 19:02

Tgt Ion:165 Resp: 363144

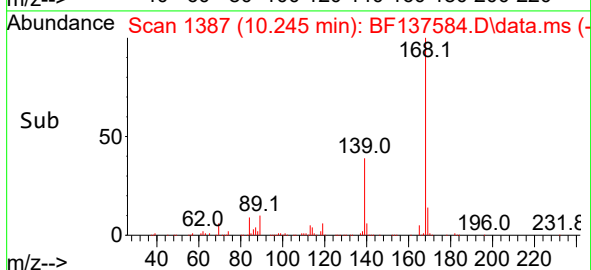
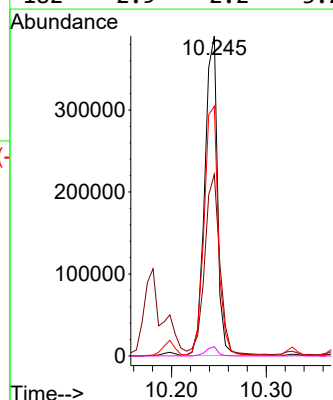
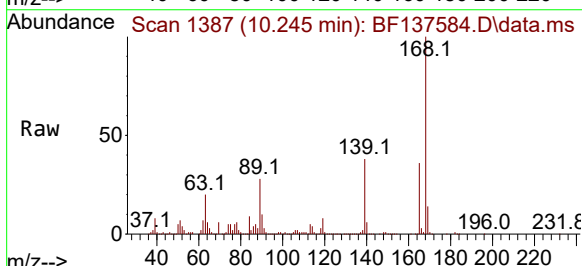
Ion Ratio Lower Upper

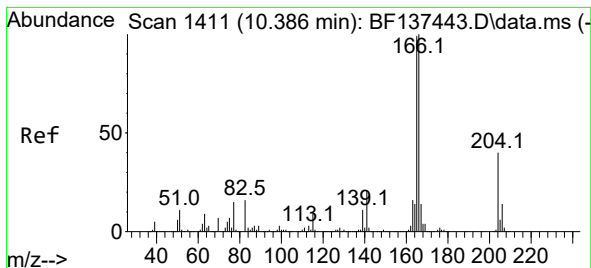
165 100

63 56.8 39.0 58.6

89 78.1 60.9 91.3

182 2.9 2.2 3.2





#58

Fluorene

Concen: 40.436 ng

RT: 10.598 min Scan# 14

Delta R.T. 0.106 min

Lab File: BF137584.D

Acq: 13 Mar 2024 19:02

Instrument :

BNA_F

ClientSampleId :

RT-3860MSD

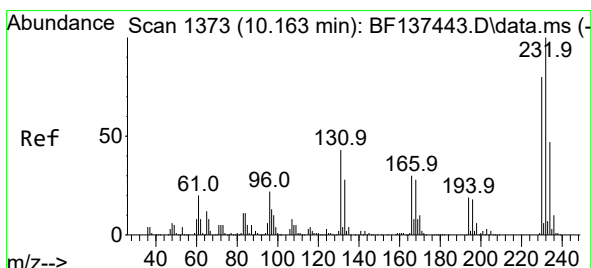
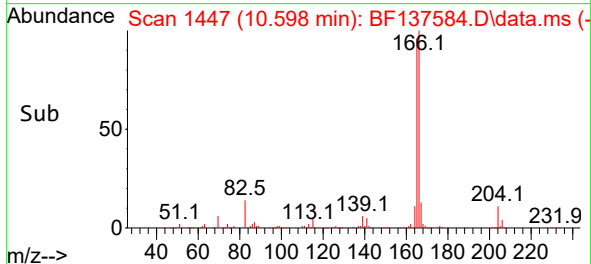
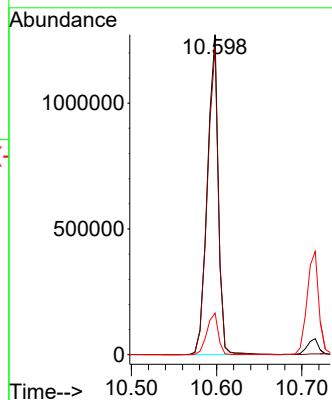
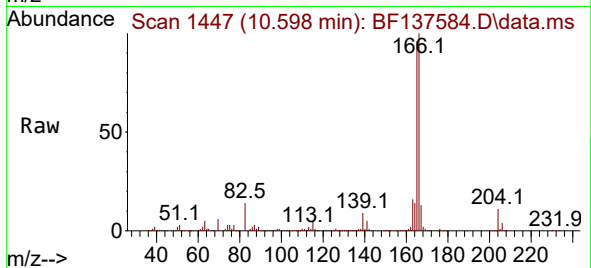
Tgt Ion:166 Resp: 1132097

Ion Ratio Lower Upper

166 100

165 96.1 79.2 118.8

167 13.0 11.0 16.6



#59

2,3,4,6-Tetrachlorophenol

Concen: 43.068 ng

RT: 10.375 min Scan# 1409

Delta R.T. 0.112 min

Lab File: BF137584.D

Acq: 13 Mar 2024 19:02

Tgt Ion:232 Resp: 324712

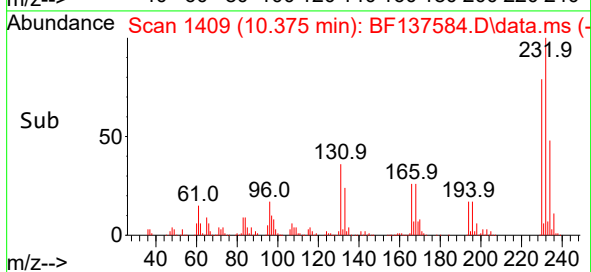
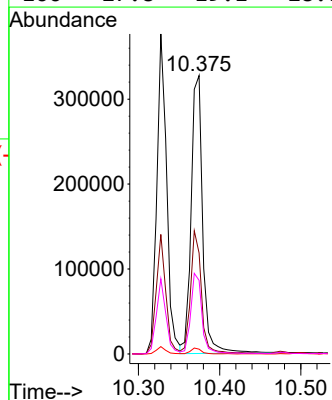
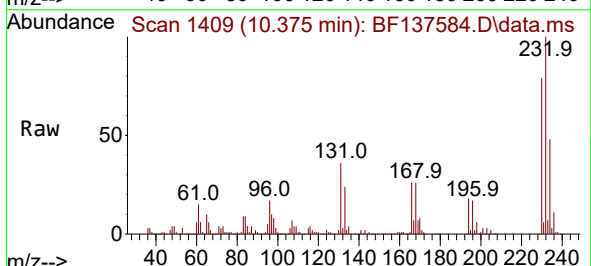
Ion Ratio Lower Upper

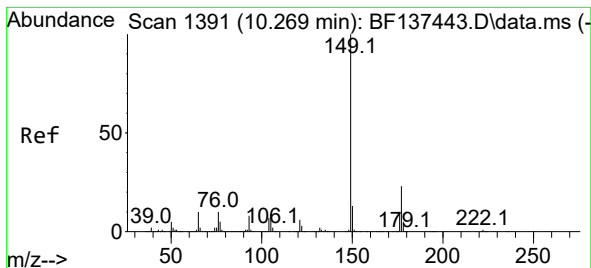
232 100

131 41.1 31.2 46.8

130 1.8 1.8 2.6

166 27.8 19.1 28.7





#60

Diethylphthalate

Concen: 43.318 ng

RT: 10.475 min Scan# 1446

Delta R.T. 0.106 min

Lab File: BF137584.D

Acq: 13 Mar 2024 19:02

Instrument :

BNA_F

ClientSampleId :

RT-3860MSD

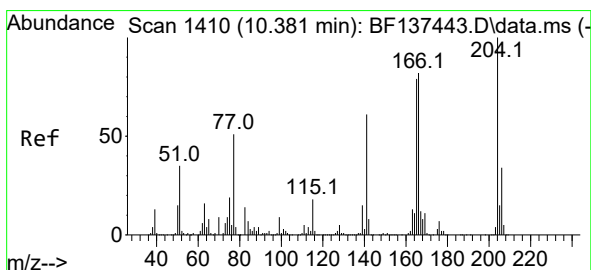
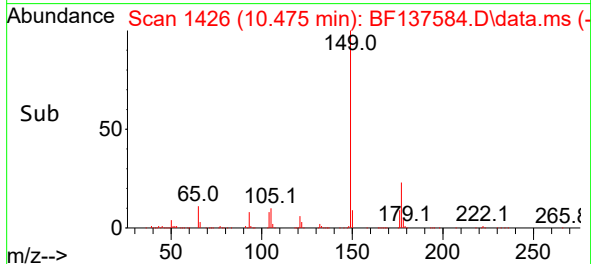
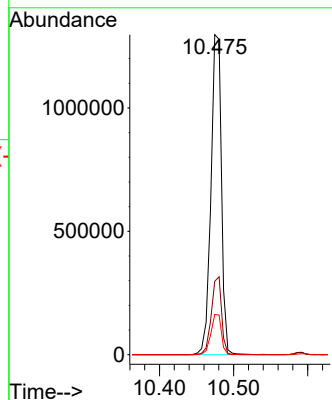
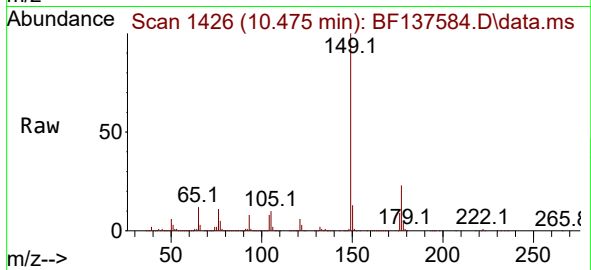
Tgt Ion:149 Resp: 1278400

Ion Ratio Lower Upper

149 100

177 23.0 18.7 28.1

150 12.6 10.2 15.4



#61

4-Chlorophenyl-phenylether

Concen: 40.430 ng

RT: 10.592 min Scan# 1446

Delta R.T. 0.112 min

Lab File: BF137584.D

Acq: 13 Mar 2024 19:02

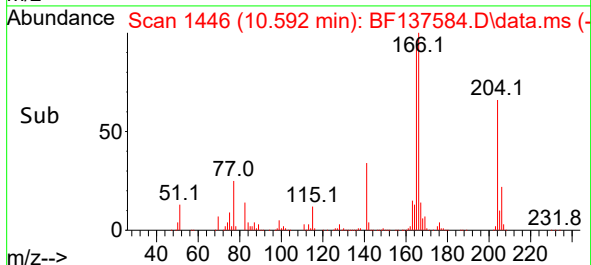
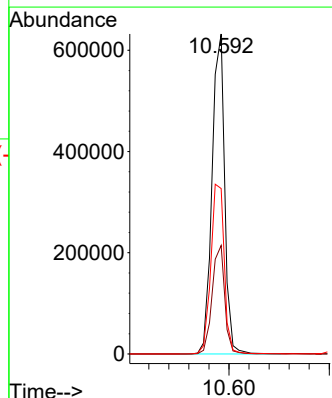
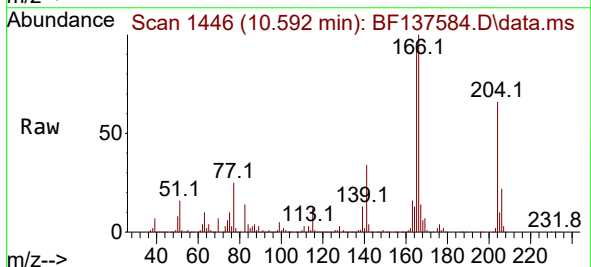
Tgt Ion:204 Resp: 554741

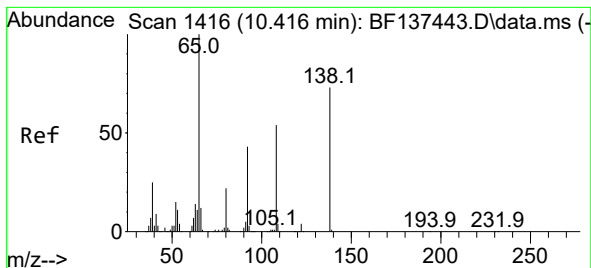
Ion Ratio Lower Upper

204 100

206 33.9 27.4 41.0

141 51.7 48.4 72.6

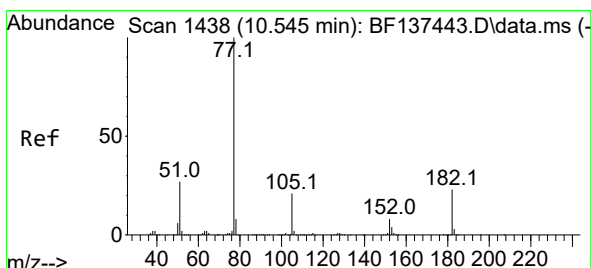
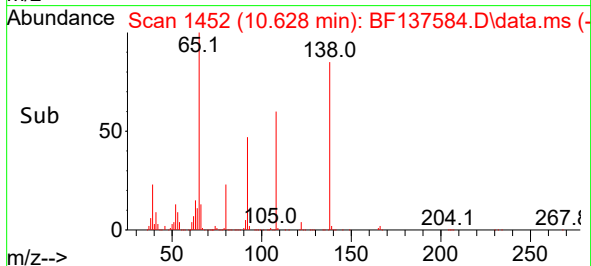
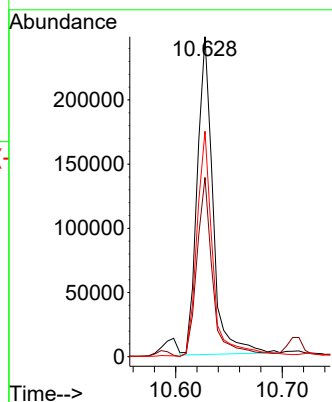
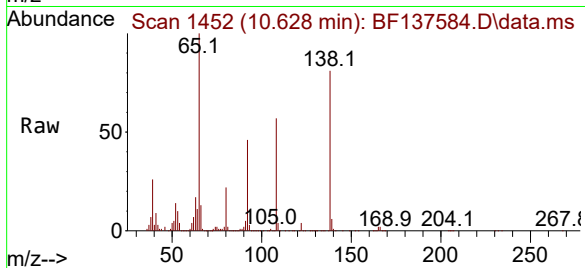




#62
4-Nitroaniline
Concen: 42.749 ng
RT: 10.628 min Scan# 1416
Delta R.T. 0.106 min
Lab File: BF137584.D
Acq: 13 Mar 2024 19:02

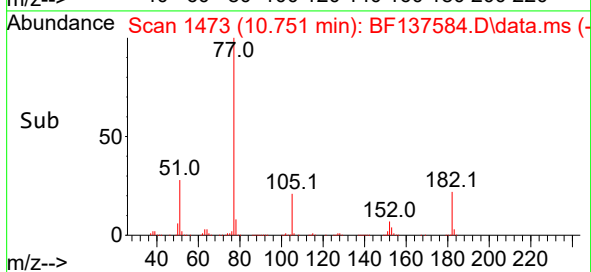
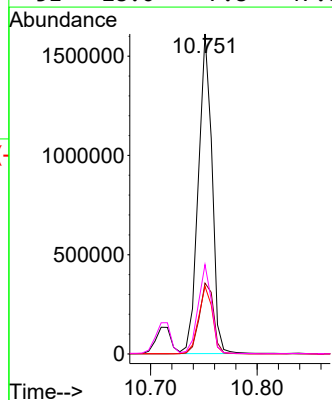
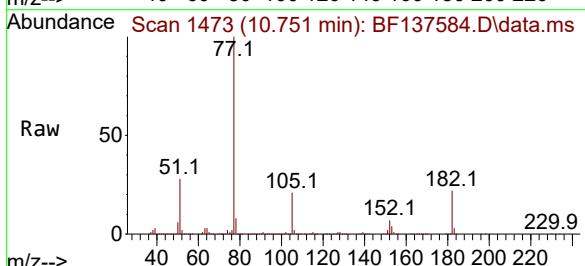
Instrument :
BNA_F
ClientSampleId :
RT-3860MSD

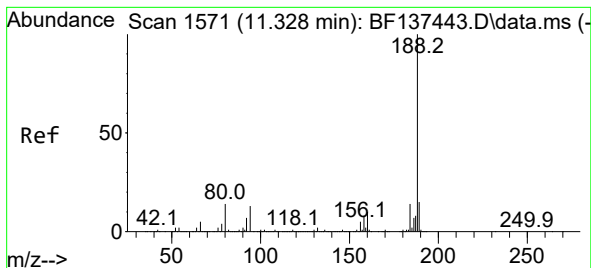
Tgt Ion:138 Resp: 254036
Ion Ratio Lower Upper
138 100
92 56.0 37.9 77.9
108 70.4 53.2 93.2



#63
Azobenzene
Concen: 42.267 ng
RT: 10.751 min Scan# 1473
Delta R.T. 0.106 min
Lab File: BF137584.D
Acq: 13 Mar 2024 19:02

Tgt Ion: 77 Resp: 1436360
Ion Ratio Lower Upper
77 100
182 22.2 3.2 43.2
105 21.1 1.2 41.2
51 28.0 7.8 47.8

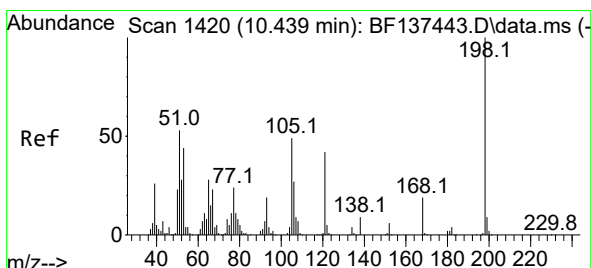
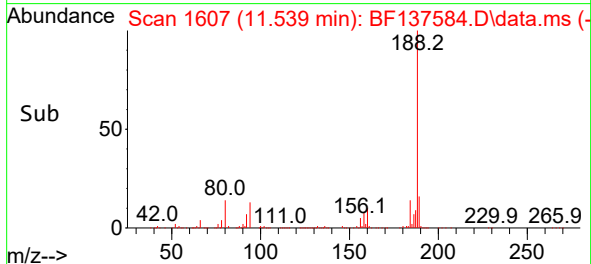
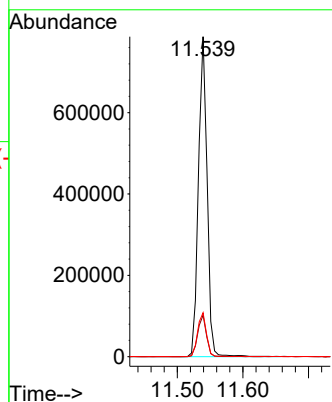
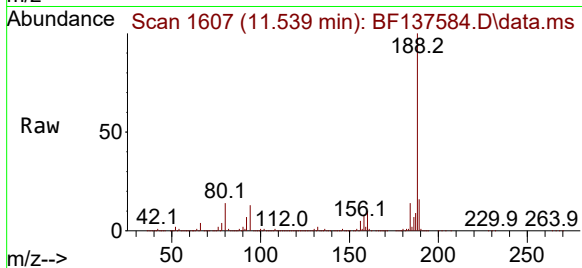




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.539 min Scan# 1
Delta R.T. 0.106 min
Lab File: BF137584.D
Acq: 13 Mar 2024 19:02

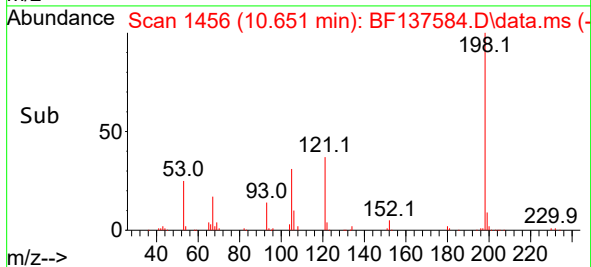
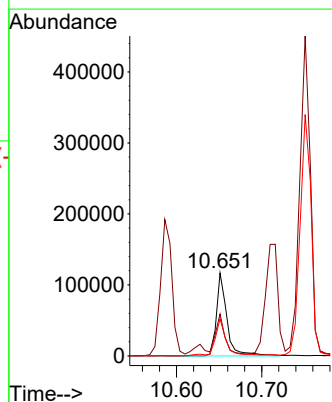
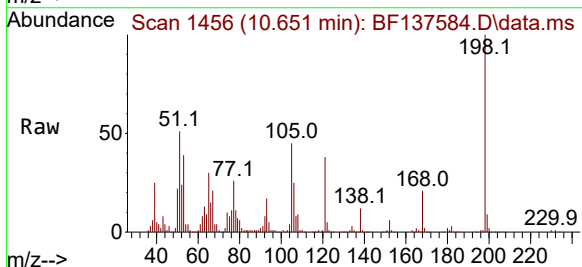
Instrument :
BNA_F
ClientSampleId :
RT-3860MSD

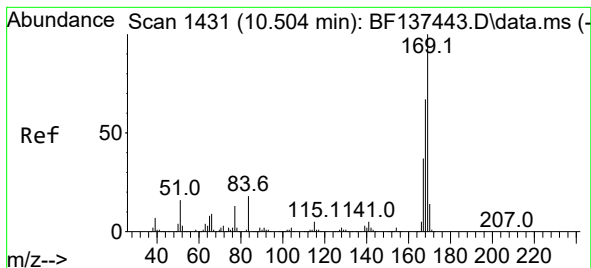
Tgt Ion:188 Resp: 725858
Ion Ratio Lower Upper
188 100
94 12.9 10.6 15.8
80 13.7 11.5 17.3



#65
4,6-Dinitro-2-methylphenol
Concen: 24.768 ng
RT: 10.651 min Scan# 1456
Delta R.T. 0.106 min
Lab File: BF137584.D
Acq: 13 Mar 2024 19:02

Tgt Ion:198 Resp: 100202
Ion Ratio Lower Upper
198 100
51 50.5 37.2 77.2
105 45.0 29.2 69.2





#66

n-Nitrosodiphenylamine

Concen: 45.700 ng

RT: 10.716 min Scan# 14

Delta R.T. 0.106 min

Lab File: BF137584.D

Acq: 13 Mar 2024 19:02

Instrument :

BNA_F

ClientSampleId :

RT-3860MSD

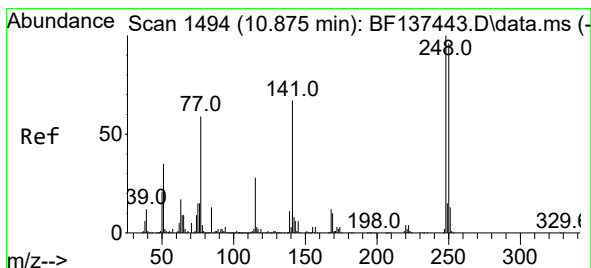
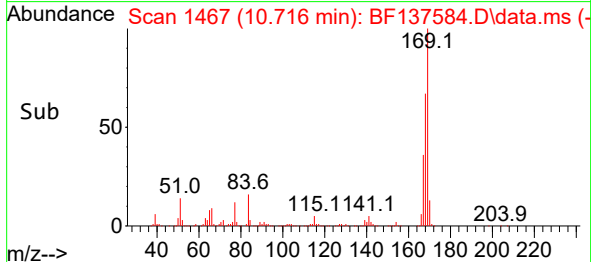
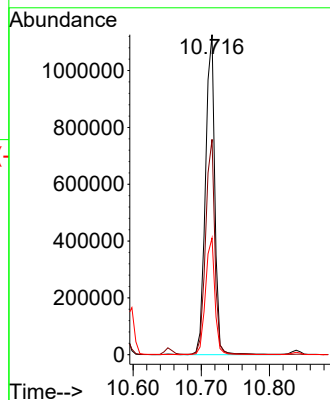
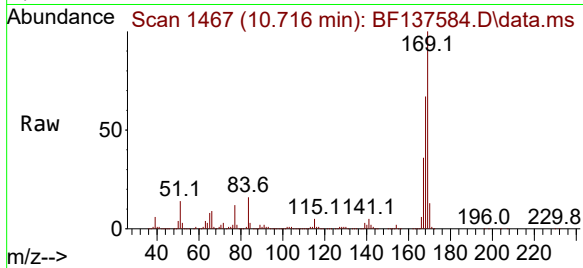
Tgt Ion:169 Resp: 1068164

Ion Ratio Lower Upper

169 100

168 67.3 53.8 80.6

167 36.5 29.6 44.4



#67

4-Bromophenyl-phenylether

Concen: 47.460 ng

RT: 11.086 min Scan# 1530

Delta R.T. 0.112 min

Lab File: BF137584.D

Acq: 13 Mar 2024 19:02

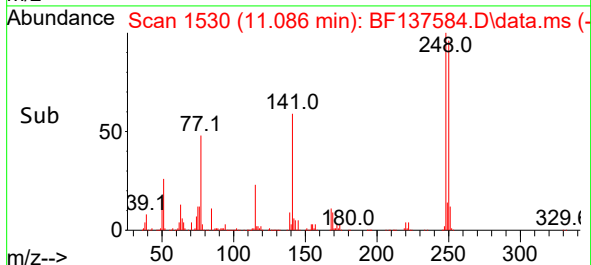
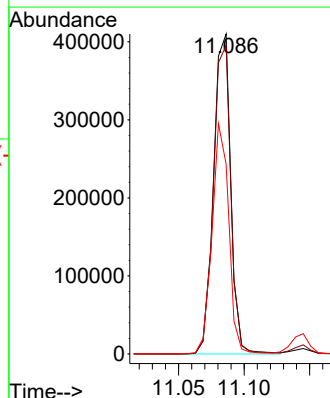
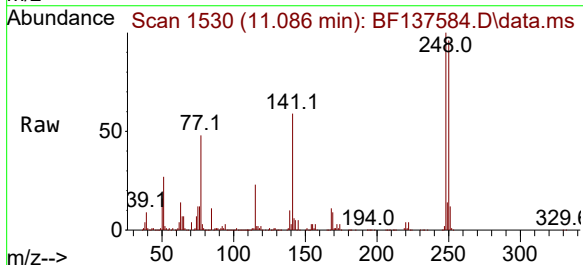
Tgt Ion:248 Resp: 375215

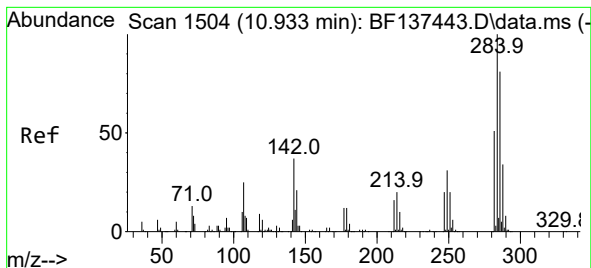
Ion Ratio Lower Upper

248 100

250 96.5 76.8 115.2

141 59.3 53.4 80.0





#68

Hexachlorobenzene

Concen: 49.711 ng

RT: 11.145 min Scan# 1

Delta R.T. 0.106 min

Lab File: BF137584.D

Acq: 13 Mar 2024 19:02

Instrument :

BNA_F

ClientSampleId :

RT-3860MSD

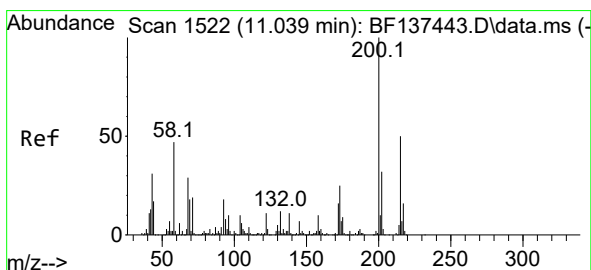
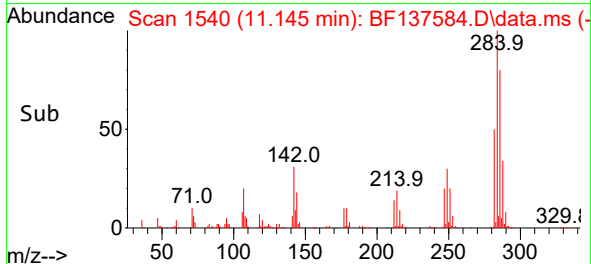
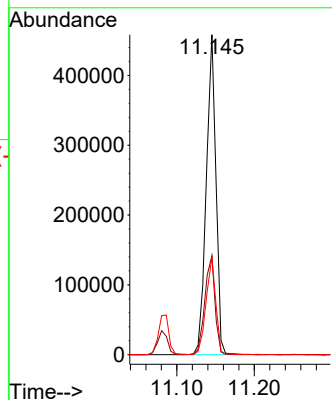
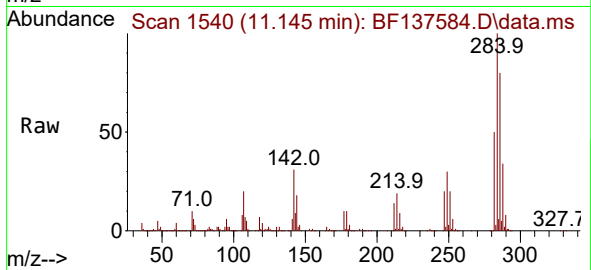
Tgt Ion:284 Resp: 396948

Ion Ratio Lower Upper

284 100

142 30.9 29.4 44.0

249 30.5 25.0 37.4



#69

Atrazine

Concen: 49.456 ng

RT: 11.251 min Scan# 1558

Delta R.T. 0.112 min

Lab File: BF137584.D

Acq: 13 Mar 2024 19:02

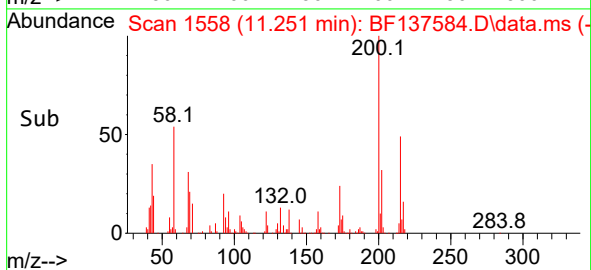
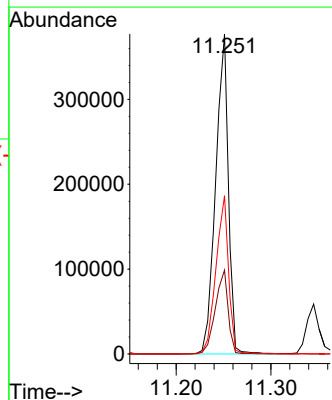
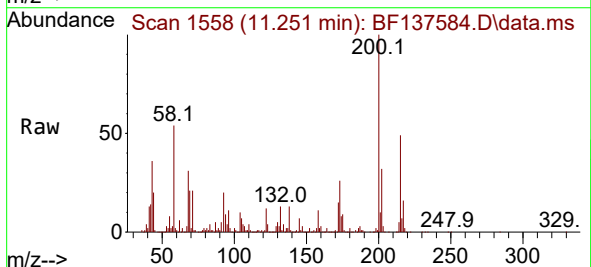
Tgt Ion:200 Resp: 351412

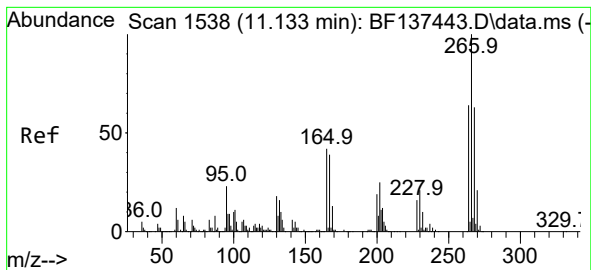
Ion Ratio Lower Upper

200 100

173 26.2 5.1 45.1

215 49.5 30.4 70.4





#70

Pentachlorophenol

Concen: 67.888 ng

RT: 11.345 min Scan# 1610

Delta R.T. 0.112 min

Lab File: BF137584.D

Acq: 13 Mar 2024 19:02

Instrument :

BNA_F

ClientSampleId :

RT-3860MSD

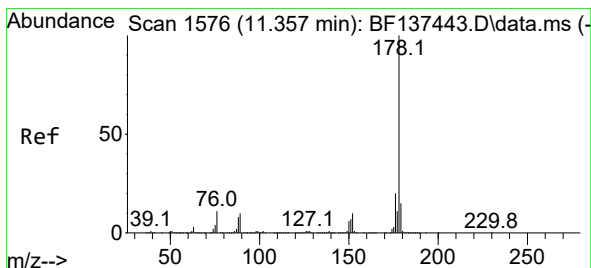
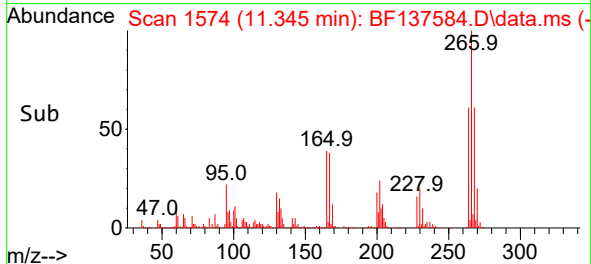
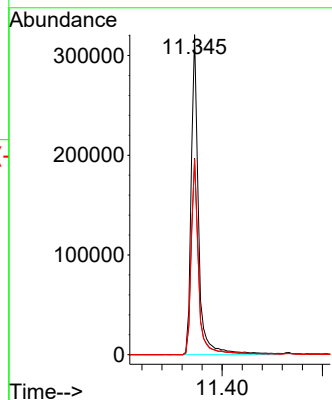
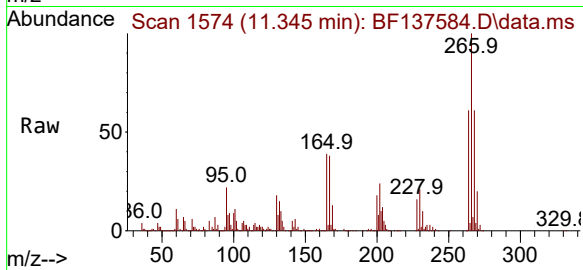
Tgt Ion:266 Resp: 327703

Ion Ratio Lower Upper

266 100

268 61.4 50.2 75.2

264 60.9 50.9 76.3



#71

Phenanthrene

Concen: 43.423 ng

RT: 11.563 min Scan# 1611

Delta R.T. 0.106 min

Lab File: BF137584.D

Acq: 13 Mar 2024 19:02

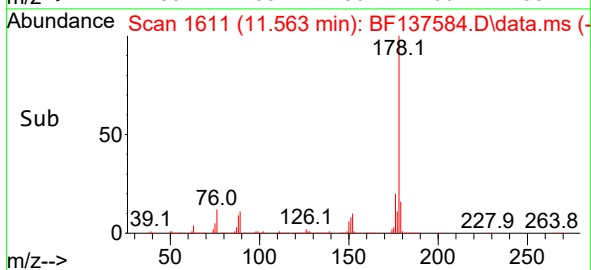
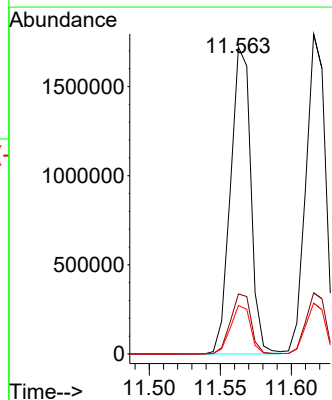
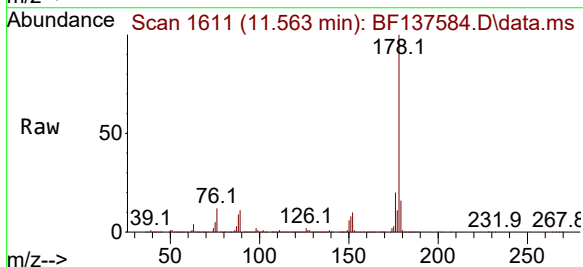
Tgt Ion:178 Resp: 1715341

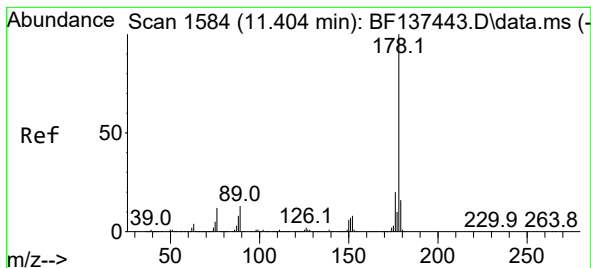
Ion Ratio Lower Upper

178 100

176 19.5 15.8 23.8

179 15.8 12.2 18.2





#72

Anthracene

Concen: 43.412 ng

RT: 11.616 min Scan# 1

Delta R.T. 0.106 min

Lab File: BF137584.D

Acq: 13 Mar 2024 19:02

Instrument :

BNA_F

ClientSampleId :

RT-3860MSD

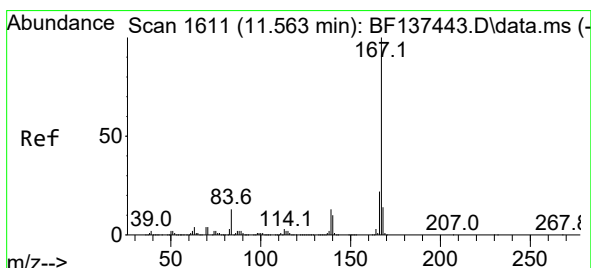
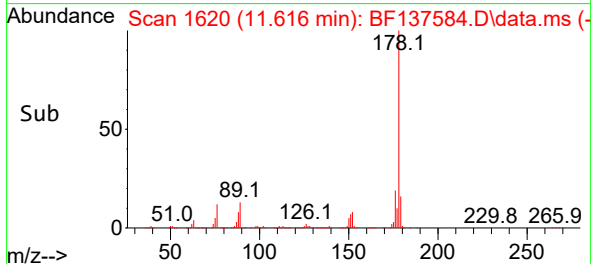
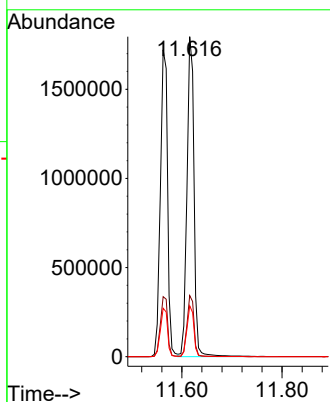
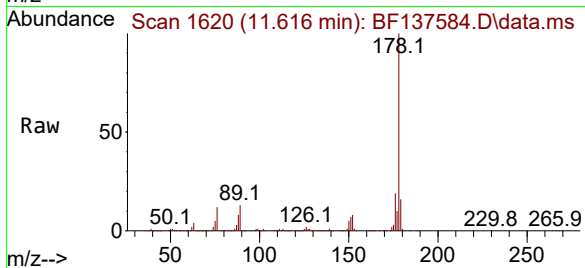
Tgt Ion:178 Resp: 1761284

Ion Ratio Lower Upper

178 100

176 19.1 15.7 23.5

179 15.9 12.7 19.1



#73

Carbazole

Concen: 44.152 ng

RT: 11.780 min Scan# 1648

Delta R.T. 0.112 min

Lab File: BF137584.D

Acq: 13 Mar 2024 19:02

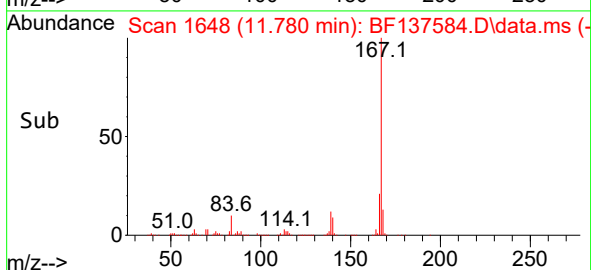
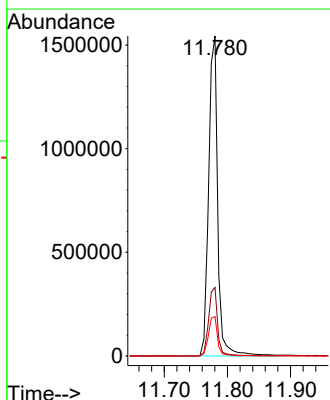
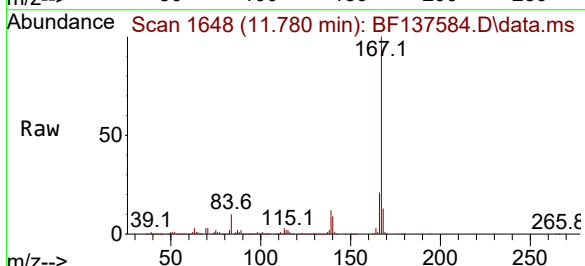
Tgt Ion:167 Resp: 1534388

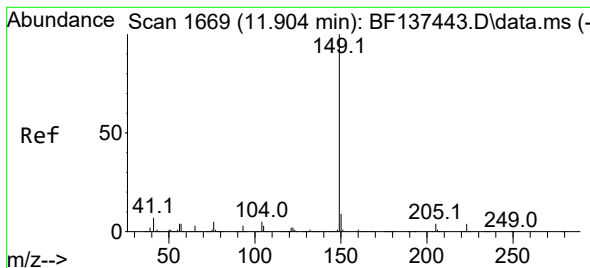
Ion Ratio Lower Upper

167 100

166 21.4 17.8 26.8

139 12.3 10.5 15.7





#74

Di-n-butylphthalate

Concen: 46.461 ng

RT: 12.116 min Scan# 11

Delta R.T. 0.112 min

Lab File: BF137584.D

Acq: 13 Mar 2024 19:02

Instrument :

BNA_F

ClientSampleId :

RT-3860MSD

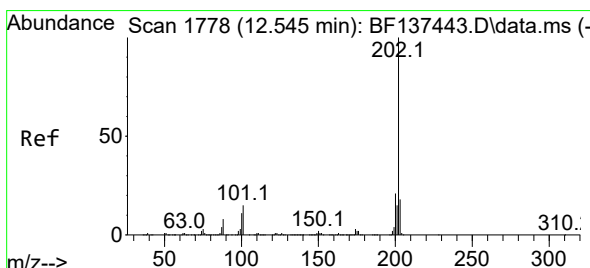
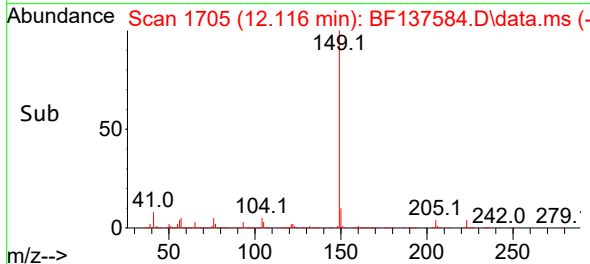
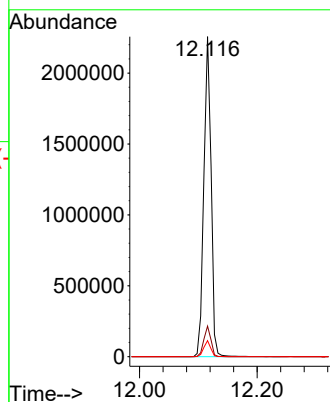
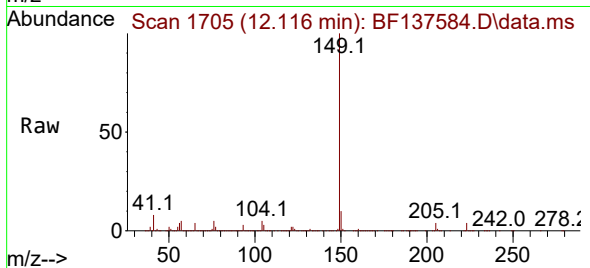
Tgt Ion:149 Resp: 1921016

Ion Ratio Lower Upper

149 100

150 9.6 7.4 11.0

104 5.0 3.8 5.6



#75

Fluoranthene

Concen: 41.486 ng

RT: 12.763 min Scan# 1815

Delta R.T. 0.106 min

Lab File: BF137584.D

Acq: 13 Mar 2024 19:02

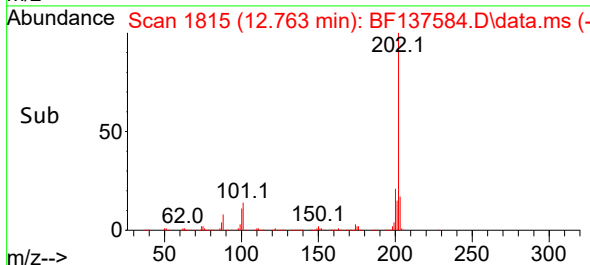
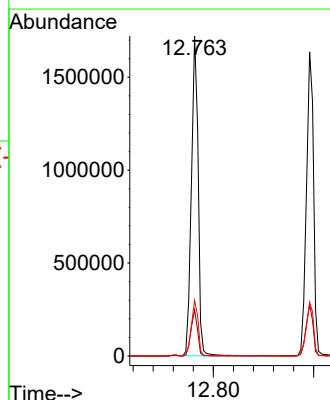
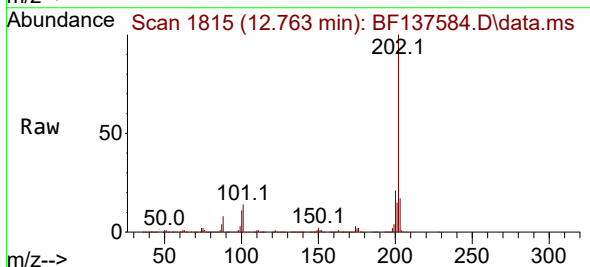
Tgt Ion:202 Resp: 1601891

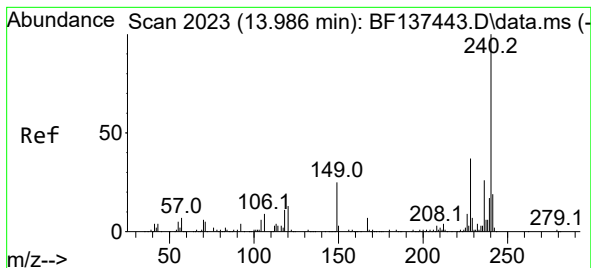
Ion Ratio Lower Upper

202 100

101 14.4 0.0 35.0

203 17.4 0.0 37.7





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.210 min Scan# 20

Delta R.T. 0.112 min

Lab File: BF137584.D

Acq: 13 Mar 2024 19:02

Instrument :

BNA_F

ClientSampleId :

RT-3860MSD

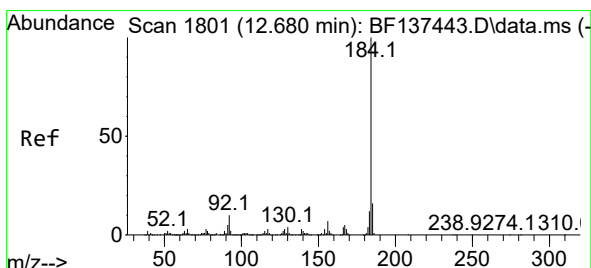
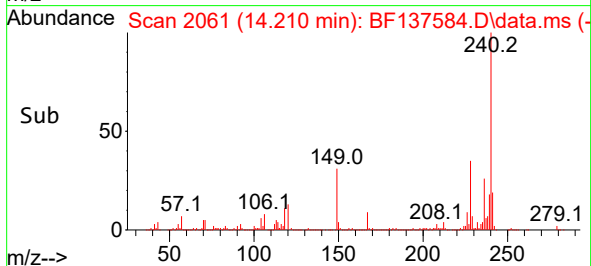
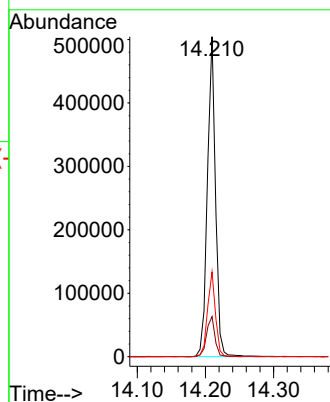
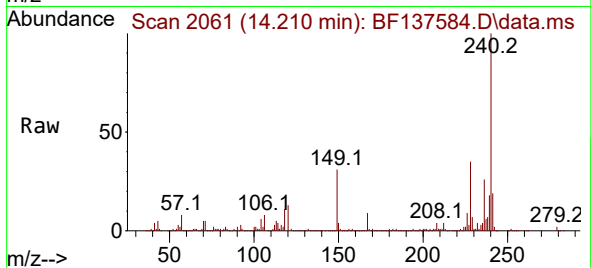
Tgt Ion:240 Resp: 419045

Ion Ratio Lower Upper

240 100

120 12.6 10.4 15.6

236 26.5 20.9 31.3



#77

Benzidine

Concen: 41.078 ng

RT: 12.892 min Scan# 1837

Delta R.T. 0.106 min

Lab File: BF137584.D

Acq: 13 Mar 2024 19:02

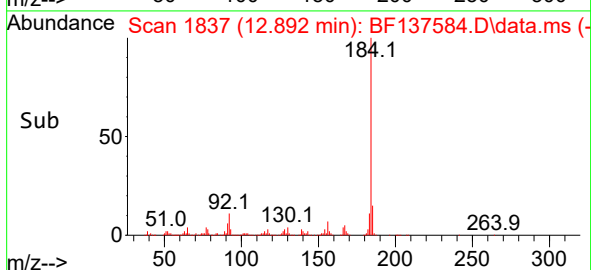
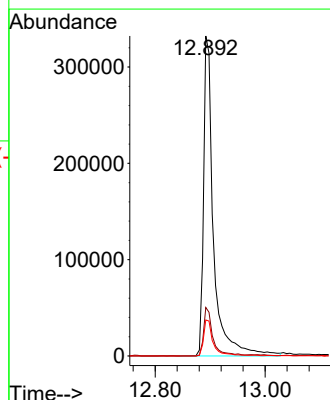
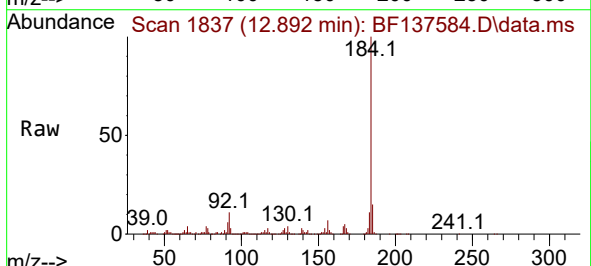
Tgt Ion:184 Resp: 421253

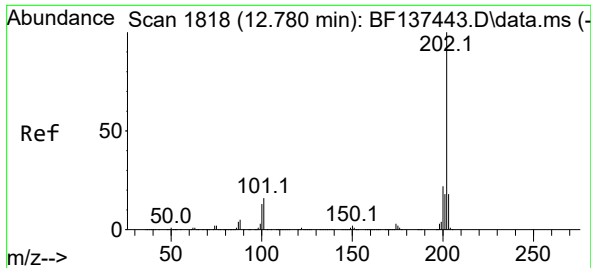
Ion Ratio Lower Upper

184 100

185 15.1 13.2 19.8

183 11.2 9.3 13.9

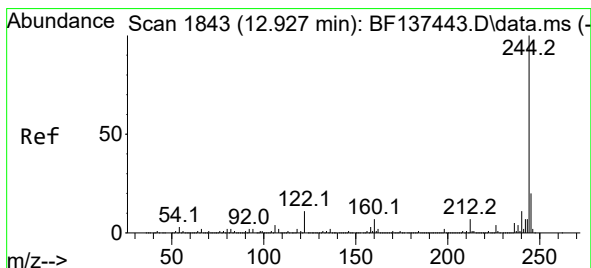
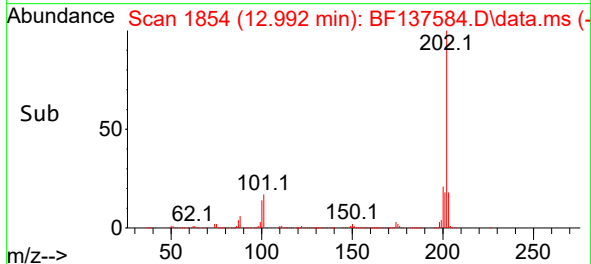
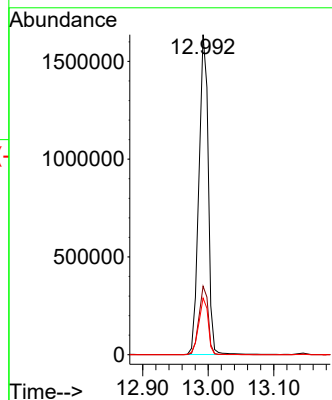
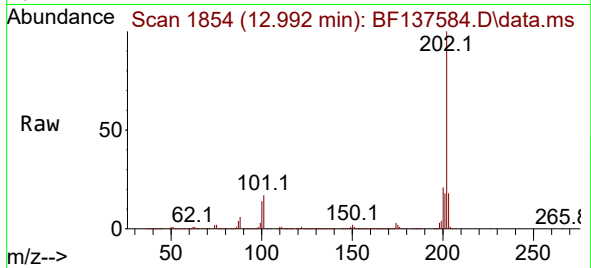




#78
Pyrene
Concen: 39.557 ng
RT: 12.992 min Scan# 1854
Delta R.T. 0.106 min
Lab File: BF137584.D
Acq: 13 Mar 2024 19:02

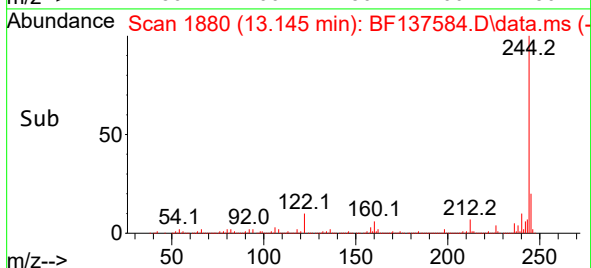
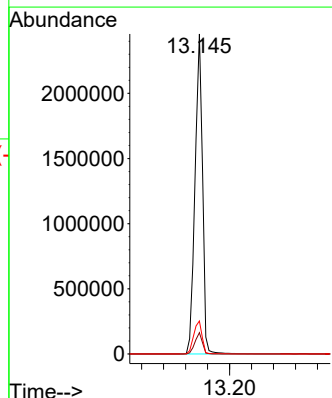
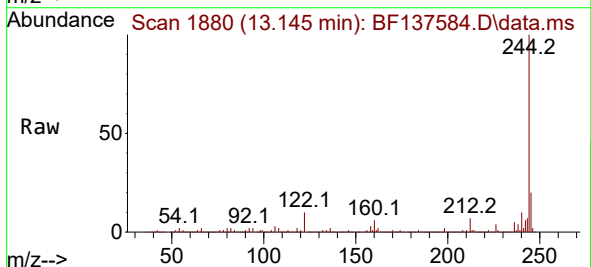
Instrument :
BNA_F
ClientSampleId :
RT-3860MSD

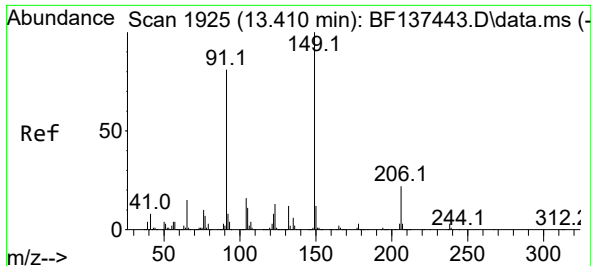
Tgt Ion:202 Resp: 1626491
Ion Ratio Lower Upper
202 100
200 21.4 17.4 26.2
203 17.7 14.1 21.1



#79
Terphenyl-d14
Concen: 75.835 ng
RT: 13.145 min Scan# 1880
Delta R.T. 0.106 min
Lab File: BF137584.D
Acq: 13 Mar 2024 19:02

Tgt Ion:244 Resp: 2310958
Ion Ratio Lower Upper
244 100
212 6.6 5.4 8.2
122 10.3 9.1 13.7

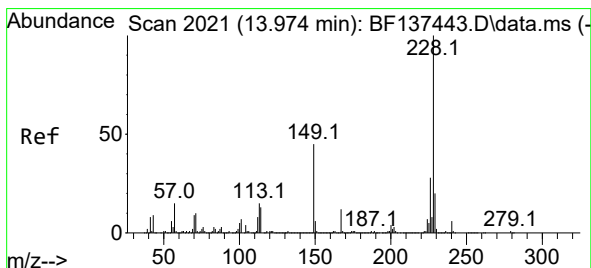
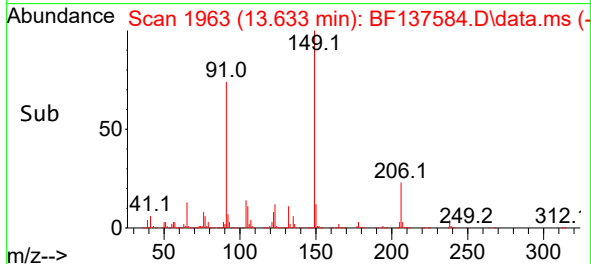
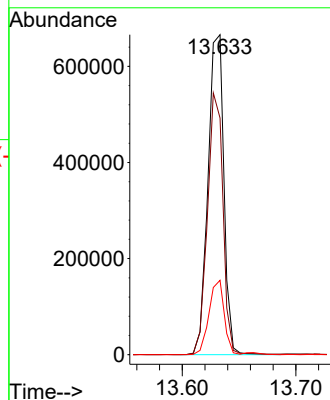
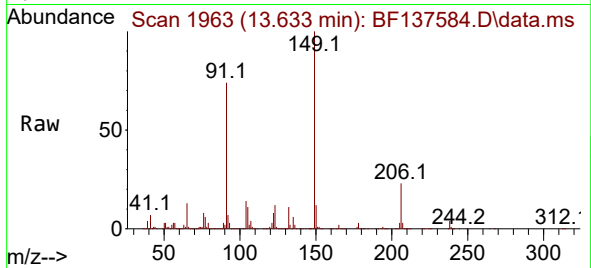




#80
Butylbenzylphthalate
Concen: 61.650 ng
RT: 13.633 min Scan# 1925
Delta R.T. 0.112 min
Lab File: BF137584.D
Acq: 13 Mar 2024 19:02

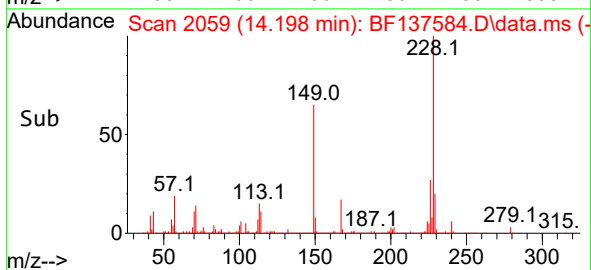
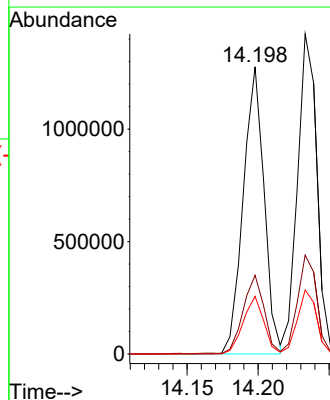
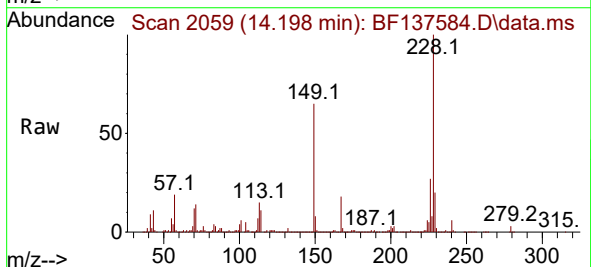
Instrument :
BNA_F
ClientSampleId :
RT-3860MSD

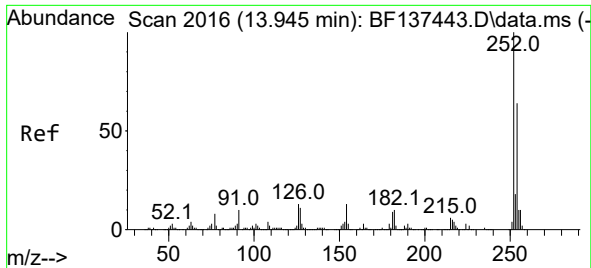
Tgt Ion:149 Resp: 647385
Ion Ratio Lower Upper
149 100
91 73.9 64.7 97.1
206 23.2 17.5 26.3



#81
Benzo(a)anthracene
Concen: 44.424 ng
RT: 14.198 min Scan# 2059
Delta R.T. 0.112 min
Lab File: BF137584.D
Acq: 13 Mar 2024 19:02

Tgt Ion:228 Resp: 1304768
Ion Ratio Lower Upper
228 100
226 27.4 22.3 33.5
229 20.1 16.3 24.5

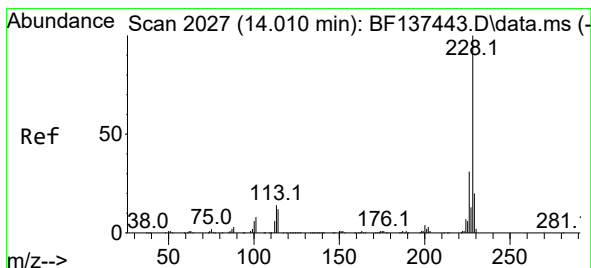
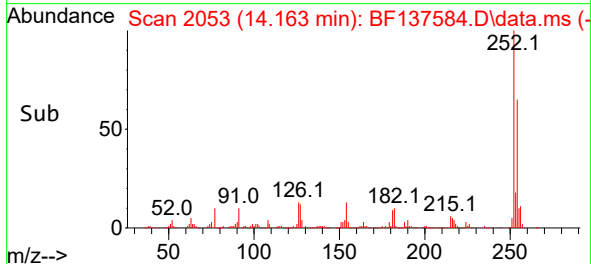
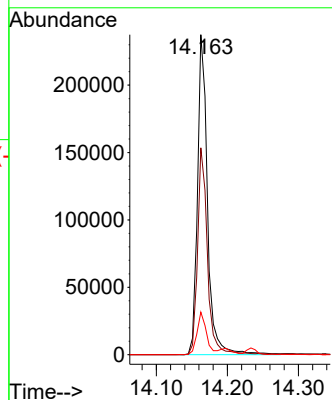
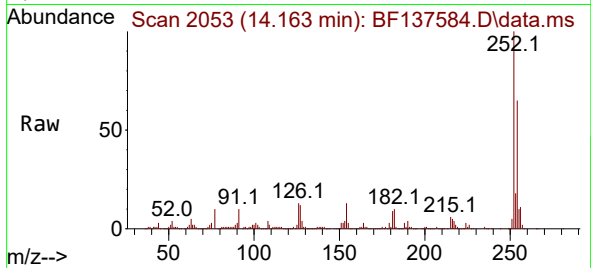




#82
 3,3'-Dichlorobenzidine
 Concen: 29.911 ng
 RT: 14.163 min Scan# 2053
 Delta R.T. 0.106 min
 Lab File: BF137584.D
 Acq: 13 Mar 2024 19:02

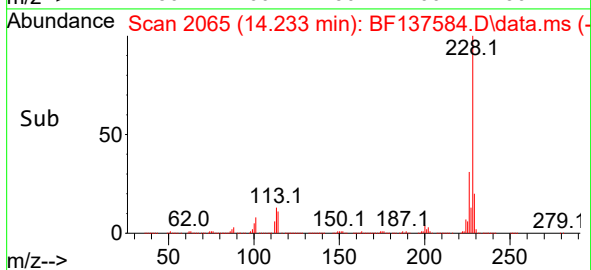
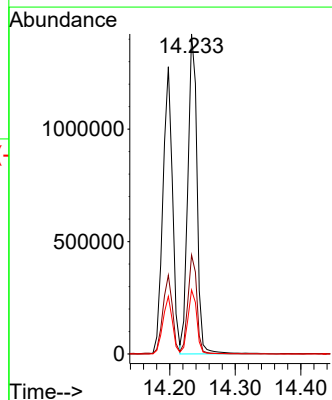
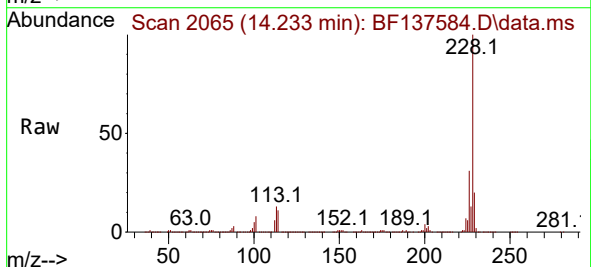
Instrument :
 BNA_F
 ClientSampleId :
 RT-3860MSD

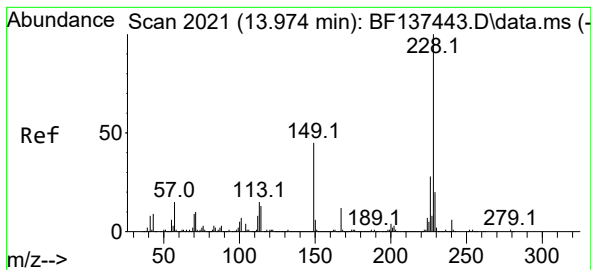
Tgt Ion:252 Resp: 233945
 Ion Ratio Lower Upper
 252 100
 254 64.7 51.4 77.2
 126 13.3 10.4 15.6



#83
 Chrysene
 Concen: 46.240 ng
 RT: 14.233 min Scan# 2065
 Delta R.T. 0.106 min
 Lab File: BF137584.D
 Acq: 13 Mar 2024 19:02

Tgt Ion:228 Resp: 1372608
 Ion Ratio Lower Upper
 228 100
 226 30.9 24.7 37.1
 229 20.0 15.9 23.9

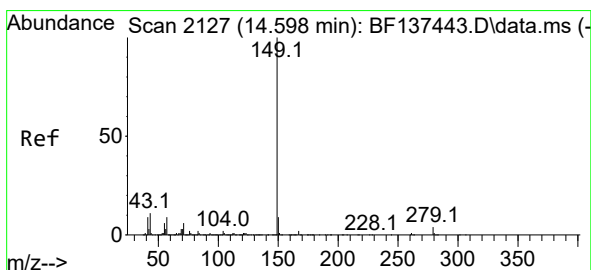
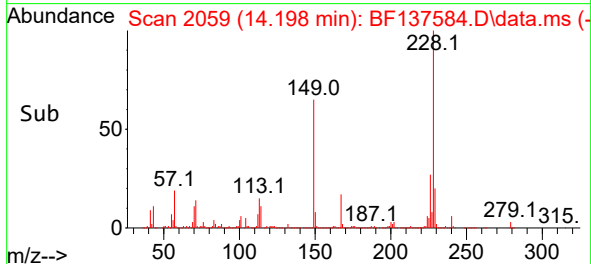
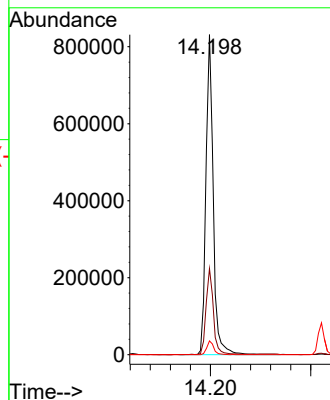
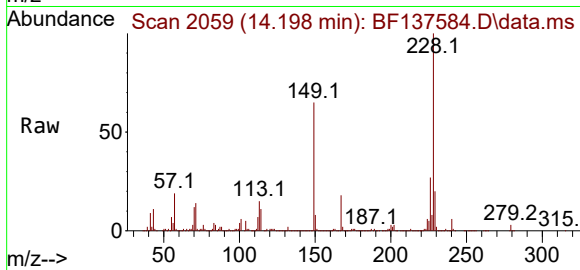




#84
Bis(2-ethylhexyl)phthalate
Concen: 63.003 ng
RT: 14.198 min Scan# 2059
Delta R.T. 0.112 min
Lab File: BF137584.D
Acq: 13 Mar 2024 19:02

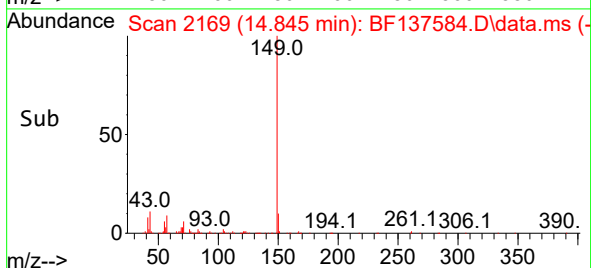
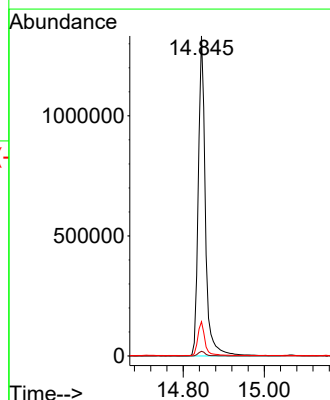
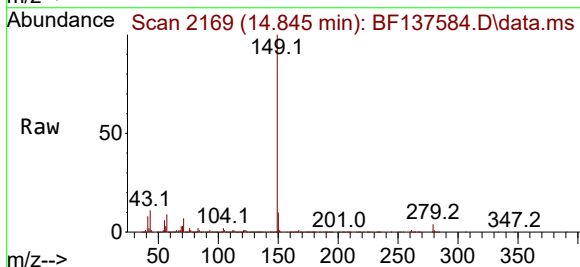
Instrument :
BNA_F
ClientSampleId :
RT-3860MSD

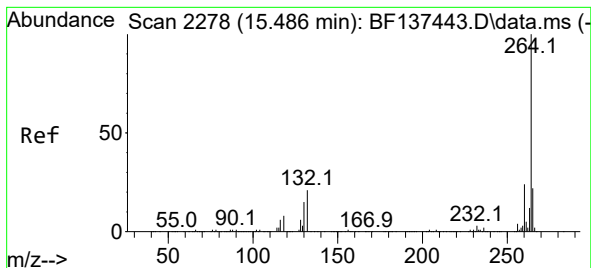
Tgt Ion:149 Resp: 840899
Ion Ratio Lower Upper
149 100
167 26.9 21.3 31.9
279 4.3 2.6 4.0#



#85
Di-n-octyl phthalate
Concen: 61.657 ng
RT: 14.845 min Scan# 2169
Delta R.T. 0.129 min
Lab File: BF137584.D
Acq: 13 Mar 2024 19:02

Tgt Ion:149 Resp: 1632482
Ion Ratio Lower Upper
149 100
167 1.5 1.2 1.8
43 10.6 9.6 14.4





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.833 min Scan# 21

Delta R.T. 0.182 min

Lab File: BF137584.D

Acq: 13 Mar 2024 19:02

Instrument :

BNA_F

ClientSampleId :

RT-3860MSD

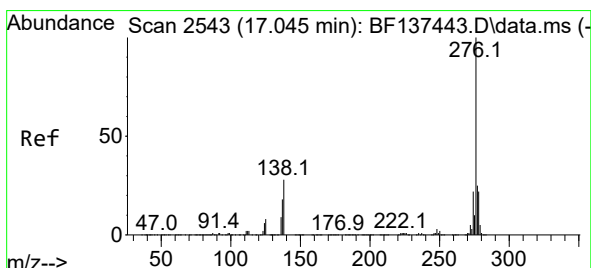
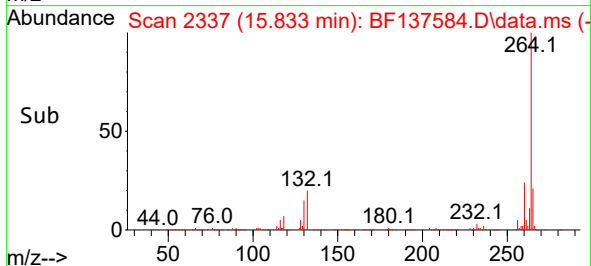
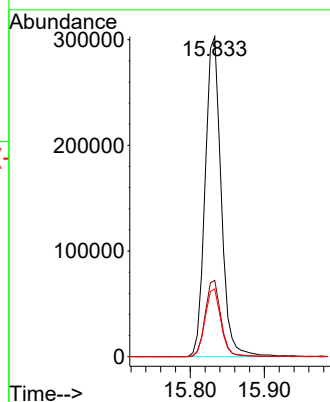
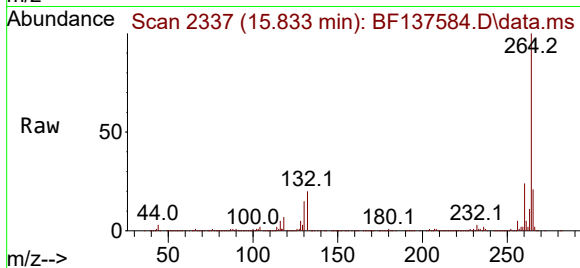
Tgt Ion:264 Resp: 454211

Ion Ratio Lower Upper

264 100

260 23.8 19.3 28.9

265 21.2 17.4 26.0



#87

Indeno(1,2,3-cd)pyrene

Concen: 40.738 ng

RT: 17.604 min Scan# 2638

Delta R.T. 0.312 min

Lab File: BF137584.D

Acq: 13 Mar 2024 19:02

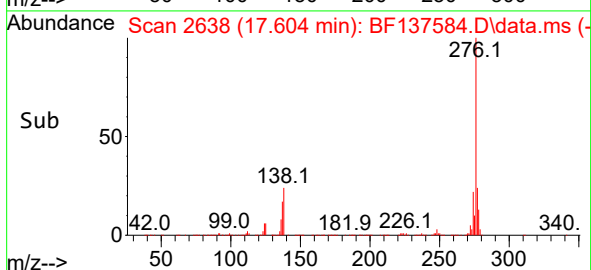
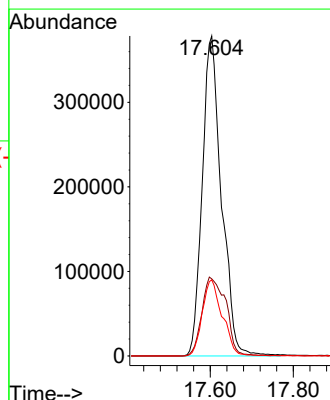
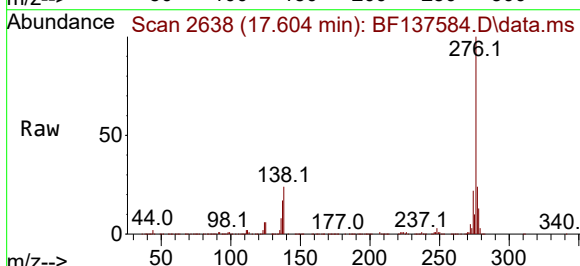
Tgt Ion:276 Resp: 1217669

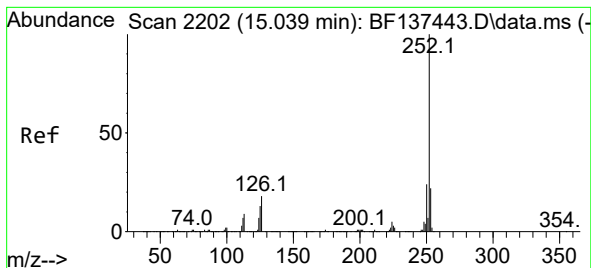
Ion Ratio Lower Upper

276 100

138 30.4 25.8 38.8

277 24.8 20.2 30.2





#88

Benzo(b)fluoranthene

Concen: 49.993 ng

RT: 15.374 min Scan# 21

Delta R.T. 0.188 min

Lab File: BF137584.D

Acq: 13 Mar 2024 19:02

Instrument :

BNA_F

ClientSampleId :

RT-3860MSD

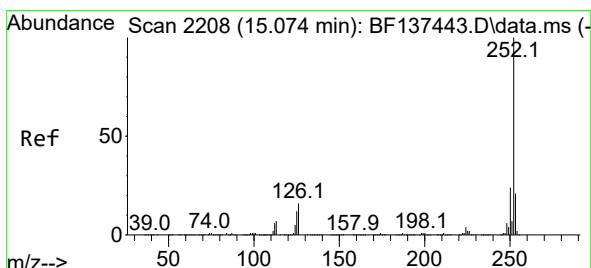
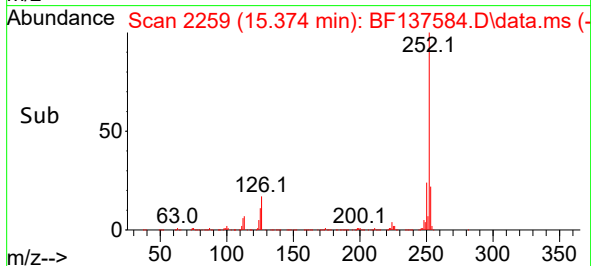
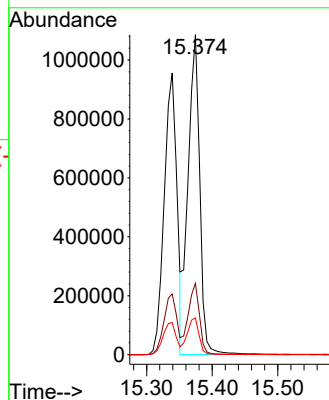
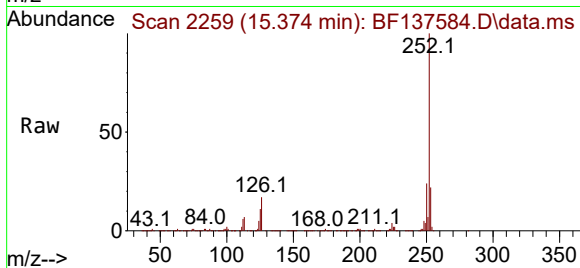
Tgt Ion:252 Resp: 1343238

Ion Ratio Lower Upper

252 100

253 22.3 17.8 26.8

125 11.5 10.1 15.1



#89

Benzo(k)fluoranthene

Concen: 46.545 ng

RT: 15.374 min Scan# 2259

Delta R.T. 0.159 min

Lab File: BF137584.D

Acq: 13 Mar 2024 19:02

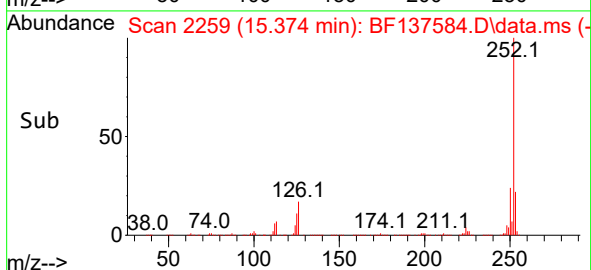
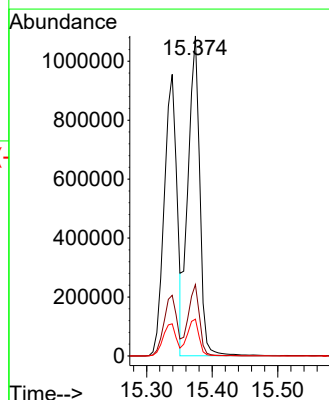
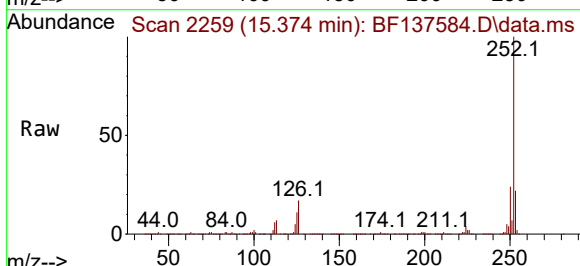
Tgt Ion:252 Resp: 1343238

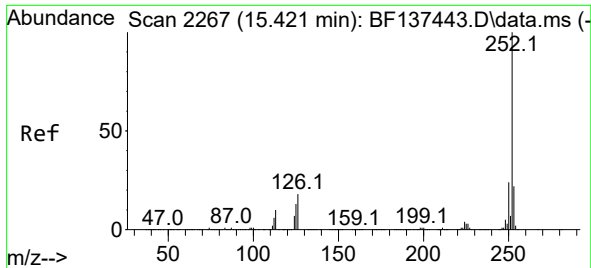
Ion Ratio Lower Upper

252 100

253 22.3 17.3 25.9

125 11.5 9.6 14.4

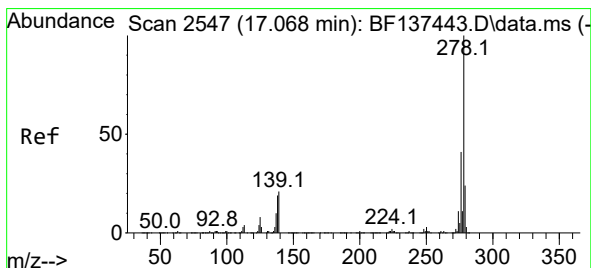
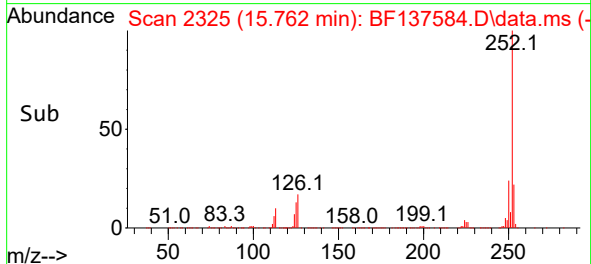
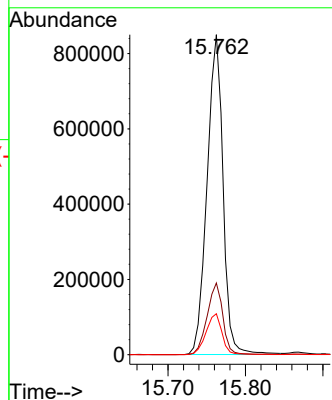
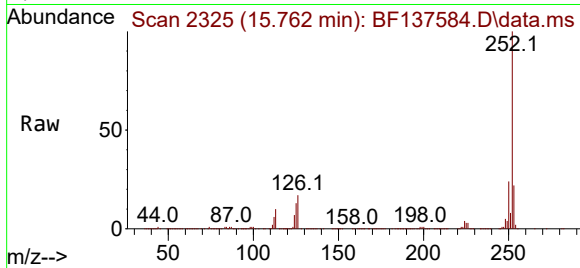




#90
Benzo(a)pyrene
Concen: 45.955 ng
RT: 15.762 min Scan# 21
Delta R.T. 0.176 min
Lab File: BF137584.D
Acq: 13 Mar 2024 19:02

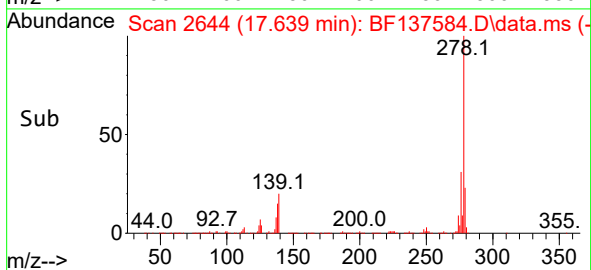
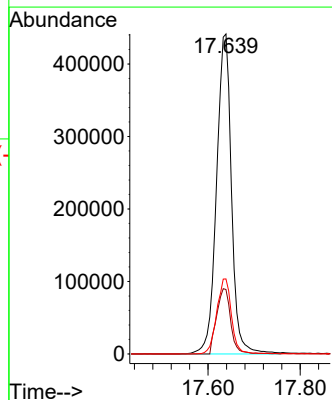
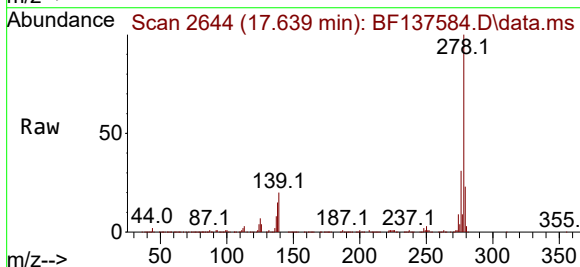
Instrument :
BNA_F
ClientSampleId :
RT-3860MSD

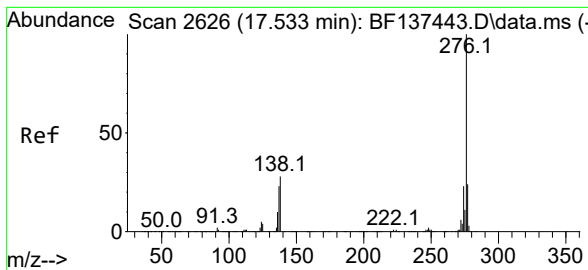
Tgt Ion:252 Resp: 1216774
Ion Ratio Lower Upper
252 100
253 22.4 17.4 26.2
125 12.8 10.4 15.6



#91
Dibenzo(a,h)anthracene
Concen: 40.939 ng
RT: 17.639 min Scan# 2644
Delta R.T. 0.323 min
Lab File: BF137584.D
Acq: 13 Mar 2024 19:02

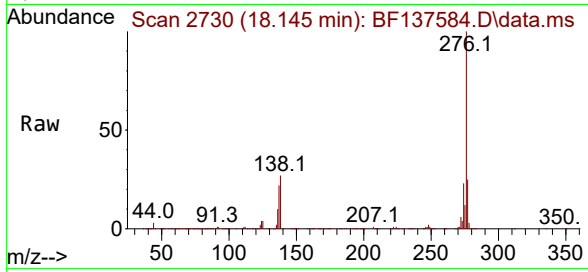
Tgt Ion:278 Resp: 992665
Ion Ratio Lower Upper
278 100
139 20.2 17.0 25.6
279 23.5 18.8 28.2





#92
 Benzo(g,h,i)perylene
 Concen: 35.348 ng
 RT: 18.145 min Scan# 21
 Delta R.T. 0.353 min
 Lab File: BF137584.D
 Acq: 13 Mar 2024 19:02

Instrument :
 BNA_F
 ClientSampleId :
 RT-3860MSD



Tgt Ion:276 Resp: 880214
 Ion Ratio Lower Upper
 276 100
 277 24.6 19.0 28.4
 138 26.9 22.2 33.2

