

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP121123\
 Data File : BP018758.D
 Acq On : 12 Dec 2023 09:32
 Operator : MA/JU
 Sample : 05675-09MSD
 Misc :
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :

Quant Time: Dec 12 21:35:35 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\SFAM-EPA-BP120123.MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Mon Dec 11 22:02:13 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.840	152	172544	20.000	ng/ul	0.00
20) Naphthalene-d8	10.634	136	668151	20.000	ng/ul	0.00
38) Acenaphthene-d10	14.469	164	427346	20.000	ng/ul	0.00
64) Phenanthrene-d10	17.216	188	1002657	20.000	ng/ul	# 0.00
79) Chrysene-d12	21.310	240	1064200	20.000	ng/ul	# 0.00
88) Perylene-d12	23.668	264	1208497	20.000	ng/ul	-0.01

System Monitoring Compounds						
3) 1,4-Dioxane-d8	3.264	96	19570	3.865	ng/uL	0.00
4) Pyridine-d5	3.687	84	80050	5.902	ng/ul	0.01
7) Phenol-d5	7.010	99	80130	4.628	ng/ul	0.00
9) Bis-(2-Chloroethyl)eth...	7.175	67	252941	24.647	ng/ul	0.00
11) 2-Chlorophenol-d4	7.369	132	256726	19.001	ng/ul	0.00
15) 4-Methylphenol-d8	8.552	113	150543	10.743	ng/ul	0.00
21) Nitrobenzene-d5	9.004	128	170266	28.632	ng/ul	0.00
24) 2-Nitrophenol-d4	9.722	143	183667	29.790	ng/ul	0.00
28) 2,4-Dichlorophenol-d3	10.257	165	338885	26.881	ng/ul	0.00
31) 4-Chloroaniline-d4	10.775	131	331539	20.123	ng/ul	0.00
46) Dimethylphthalate-d6	13.887	166	1247973	32.720	ng/ul	0.00
49) Acenaphthylene-d8	14.163	160	1259464	29.988	ng/ul	0.00
54) 4-Nitrophenol-d4	14.675	143	40762	6.511	ng/ul	0.00
60) Fluorene-d10	15.463	176	1037389	32.403	ng/ul	0.00
65) 4,6-Dinitro-2-methylph...	15.586	200	217172	36.123	ng/ul	0.00
73) Anthracene-d10	17.316	188	1668753	31.658	ng/ul	0.00
81) Pyrene-d10	19.557	212	2198783	26.543	ng/ul	0.00
92) Benzo(a)pyrene-d12	23.521	264	2420827	34.356	ng/ul	0.00

Target Compounds				Qvalue		
2) 1,4-Dioxane	3.299	88	33387	6.013	ng/uL	96
5) Pyridine	3.705	79	99631	7.274	ng/ul	96
6) Benzaldehyde	6.981	77	243265	27.211	ng/ul	99
8) Phenol	7.034	94	90747	5.344	ng/ul	92
10) Bis(2-Chloroethyl)ether	7.269	93	367367	26.343	ng/ul	99
12) 2-Chlorophenol	7.405	128	272268	19.911	ng/ul	100
13) 2-Methylphenol	8.287	108	183725	14.133	ng/ul	98
14) 2,2'-oxybis(1-Chloropr...	8.363	45	435521	24.613	ng/ul	98
16) Acetophenone	8.663	105	568805	27.236	ng/ul	97
17) N-Nitroso-di-n-propyla...	8.652	70	278387	24.231	ng/ul	99
18) 4-Methylphenol	8.616	108	168793	11.891	ng/ul	100
19) Hexachloroethane	8.916	117	155893	27.809	ng/ul	84
22) Nitrobenzene	9.046	77	445494	30.812	ng/ul	100
23) Isophorone	9.569	82	810962	27.509	ng/ul#	98
25) 2-Nitrophenol	9.751	139	202506	30.677	ng/ul#	93
26) 2,4-Dimethylphenol	9.816	107	193394	14.979	ng/ul	97
27) Bis(2-Chloroethoxy)met...	10.057	93	496034	26.652	ng/ul	100
29) 2,4-Dichlorophenol	10.287	162	341067	28.087	ng/ul	98
30) Naphthalene	10.687	128	1162358	28.677	ng/ul	99
32) 4-Chloroaniline	10.804	127	304130	19.368	ng/ul	100
33) Hexachlorobutadiene	10.969	225	303807	37.357	ng/ul	99
34) Caprolactam	11.587	113	14339	3.851	ng/ul	96
35) 4-Chloro-3-methylphenol	11.922	107	323789	23.802	ng/ul	99
36) 2-Methylnaphthalene	12.298	142	832522	28.993	ng/ul	100

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP121123\
 Data File : BP018758.D
 Acq On : 12 Dec 2023 09:32
 Operator : MA/JU
 Sample : 05675-09MSD
 Misc :
 ALS Vial : 37 Sample Multiplier: 1

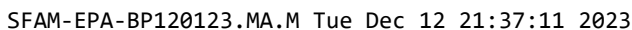
Instrument :
 BNA_P
 ClientSampleId :

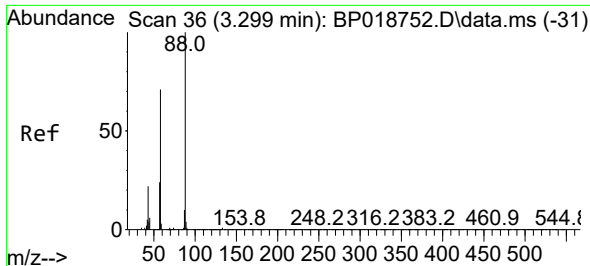
Quant Time: Dec 12 21:35:35 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\SFAM-EPA-BP120123.MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Mon Dec 11 22:02:13 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 1-Methylnaphthalene	12.516	142	812668	28.024	ng/ul#	98
39) 1,2,4,5-Tetrachloroben...	12.663	216	555637	35.837	ng/ul	97
40) Hexachlorocyclopentadiene	12.640	237	242834	26.424	ng/ul	98
41) 2,4,6-Trichlorophenol	12.904	196	339290	34.017	ng/ul	100
42) 2,4,5-Trichlorophenol	12.975	196	368041	34.036	ng/ul	99
43) 1,1'-Biphenyl	13.304	154	1133072	30.657	ng/ul	98
44) 2-Chloronaphthalene	13.345	162	926129	31.727	ng/ul	98
45) 2-Nitroaniline	13.557	65	270820	34.223	ng/ul	97
47) Dimethylphthalate	13.934	163	1293988	34.466	ng/ul	99
48) 2,6-Dinitrotoluene	14.057	165	271030	38.209	ng/ul	94
50) Acenaphthylene	14.192	152	1471778	31.169	ng/ul	99
51) 3-Nitroaniline	14.381	138	226305	31.960	ng/ul	97
52) Acenaphthene	14.534	153	990097	31.713	ng/ul	99
53) 2,4-Dinitrophenol	14.587	184	149779	39.842	ng/ul	92
55) 4-Nitrophenol	14.687	109	42024	8.885	ng/ul	84
56) Dibenzofuran	14.869	168	1431837	32.997	ng/ul	97
57) 2,4-Dinitrotoluene	14.839	165	401998	40.289	ng/ul	97
58) 2,3,4,6-Tetrachlorophenol	15.092	232	359213	39.603	ng/ul	94
59) Diethylphthalate	15.298	149	1314713	35.785	ng/ul	100
61) Fluorene	15.516	166	1176345	34.260	ng/ul	99
62) 4-Chlorophenyl-phenyle...	15.516	204	663354	36.837	ng/ul	96
63) 4-Nitroaniline	15.545	138	257490	38.172	ng/ul#	86
66) 4,6-Dinitro-2-methylph...	15.598	198	248928	38.728	ng/ul	94
67) N-Nitrosodiphenylamine	15.734	169	1008488	30.353	ng/ul	99
68) 4-Bromophenyl-phenylether	16.410	248	466299	36.838	ng/ul	97
69) Hexachlorobenzene	16.522	284	571359	40.428	ng/ul	94
70) Atrazine	16.686	200	219792	22.251	ng/ul	99
71) Pentachlorophenol	16.869	266	344572	40.995	ng/ul	99
72) Phenanthrene	17.263	178	2052750	33.898	ng/ul	100
74) Anthracene	17.351	178	1999961	32.949	ng/ul	100
75) 1,2,3,4-Tetrachloroben...	13.269	216	566761	32.691	ng/ul	99
76) Pentachlorobenzene	14.787	250	608985	35.760	ng/ul	98
77) Carbazole	17.628	167	1842675	38.090	ng/ul	99
78) Di-n-butylphthalate	18.180	149	2347344	36.440	ng/ul	99
80) Fluoranthene	19.227	202	2691961	27.491	ng/ul#	93
82) Pyrene	19.580	202	2733858	27.675	ng/ul#	91
83) Butylbenzylphthalate	20.463	149	1095530	30.294	ng/ul	93
84) 3,3'-Dichlorobenzidine	21.227	252	657489	25.424	ng/ul	99
85) Benzo(a)anthracene	21.292	228	2961230	34.282	ng/ul	100
86) Bis(2-ethylhexyl)phtha...	21.221	149	1619515	32.582	ng/ul#	99
87) Chrysene	21.345	228	2744256	34.499	ng/ul	100
89) Di-n-octyl phthalate	22.133	149	2846801	32.264	ng/ul	100
90) Benzo(b)fluoranthene	22.951	252	3174893	35.632	ng/ul#	97
91) Benzo(k)fluoranthene	22.998	252	3079824	35.723	ng/ul#	97
93) Benzo(a)pyrene	23.568	252	2889533	35.491	ng/ul#	96
94) Indeno(1,2,3-cd)pyrene	26.133	276	3745942	38.508	ng/ul#	92
95) Dibenzo(a,h)anthracene	26.156	278	3131597	38.700	ng/ul#	95
96) Benzo(g,h,i)perylene	26.886	276	2995949	38.270	ng/ul#	93

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

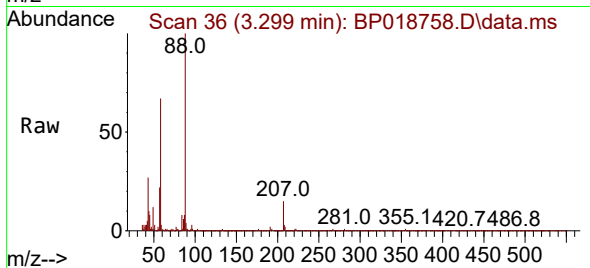
Quant Time: Dec 12 21:35:35 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\SFAM-EPA-BP120123.MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon Dec 11 22:02:13 2023
Response via : Initial Calibration



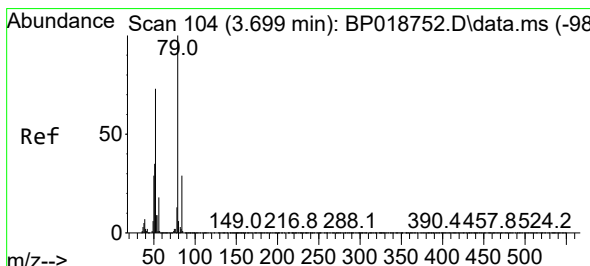
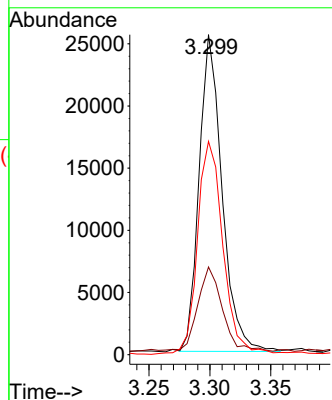
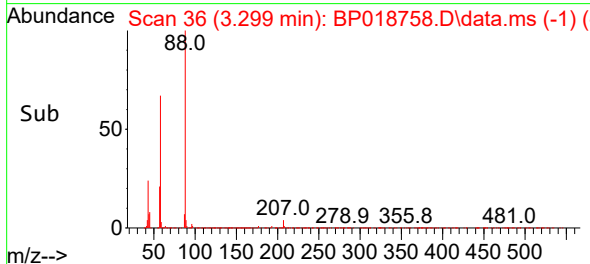


#2
1,4-Dioxane
Concen: 6.013 ng/uL
RT: 3.299 min Scan# 30
Delta R.T. 0.006 min
Lab File: BP018758.D
Acq: 12 Dec 2023 09:32

Instrument :
BNA_P
ClientSampleId :

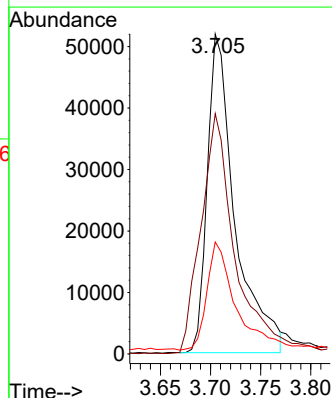
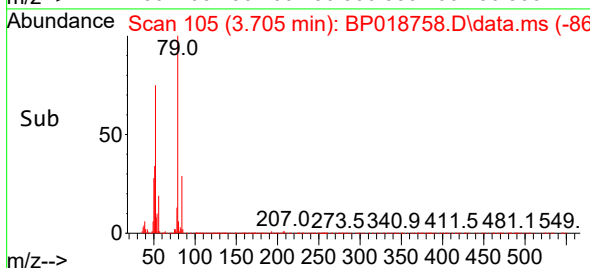
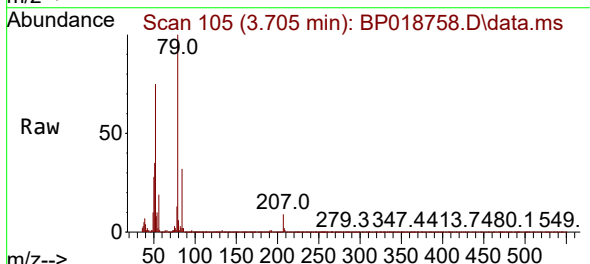


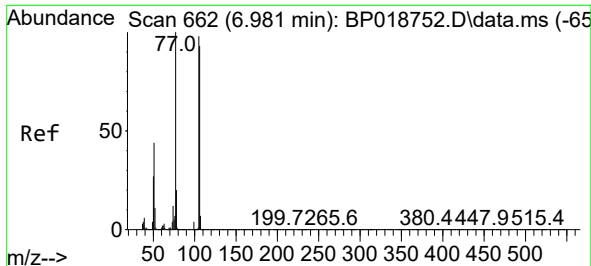
Tgt Ion:	88	Resp:	33387
Ion	Ratio	Lower	Upper
88	100		
43	27.4	21.8	32.6
58	66.6	56.5	84.7



#5
Pyridine
Concen: 7.274 ng/uL
RT: 3.705 min Scan# 105
Delta R.T. 0.012 min
Lab File: BP018758.D
Acq: 12 Dec 2023 09:32

Tgt Ion:	79	Resp:	99631
Ion	Ratio	Lower	Upper
79	100		
52	75.1	57.4	86.0
51	35.0	26.2	39.4

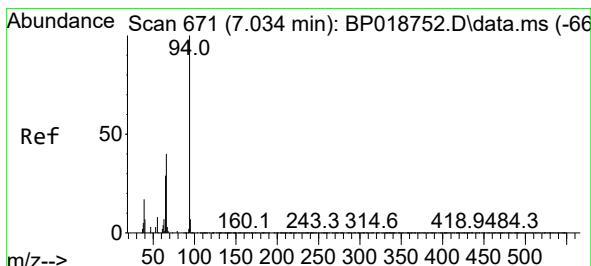
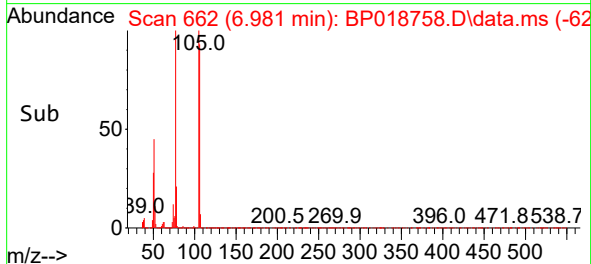
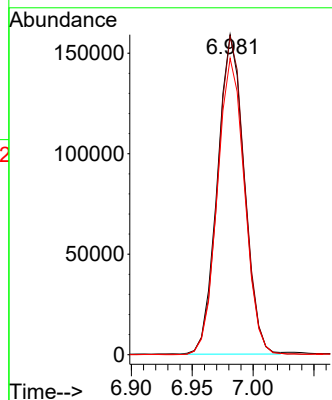
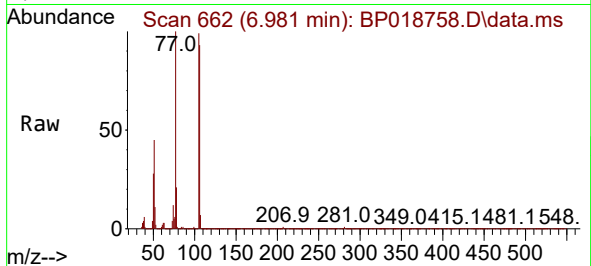




#6
Benzaldehyde
Concen: 27.211 ng/ul
RT: 6.981 min Scan# 60
Delta R.T. 0.006 min
Lab File: BP018758.D
Acq: 12 Dec 2023 09:32

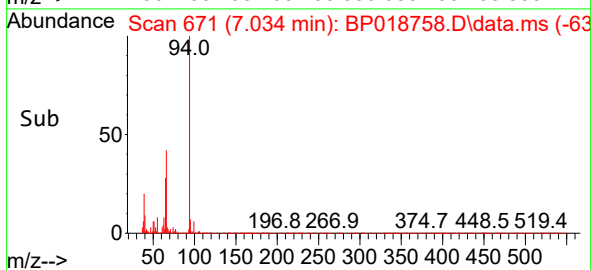
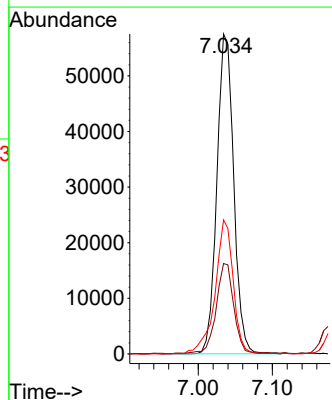
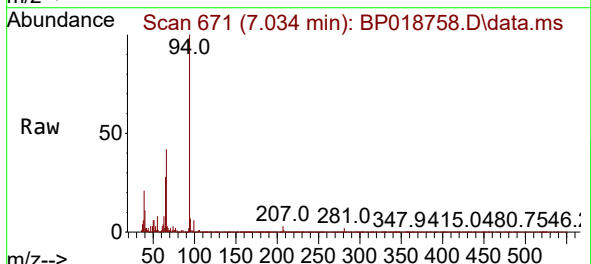
Instrument :
BNA_P
ClientSampleId :

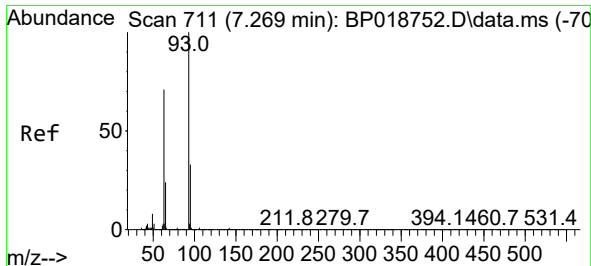
Tgt Ion: 77 Resp: 243265
Ion Ratio Lower Upper
77 100
105 99.5 77.9 116.9
106 92.6 74.6 111.8



#8
Phenol
Concen: 5.344 ng/ul
RT: 7.034 min Scan# 671
Delta R.T. 0.000 min
Lab File: BP018758.D
Acq: 12 Dec 2023 09:32

Tgt Ion: 94 Resp: 90747
Ion Ratio Lower Upper
94 100
65 28.2 21.0 31.6
66 41.9 28.6 43.0

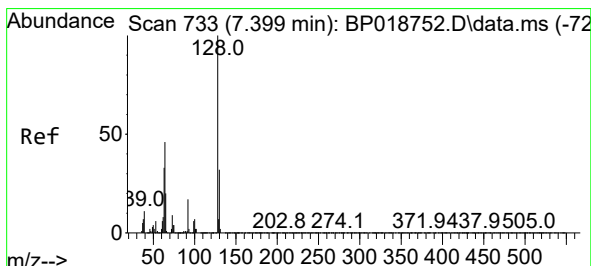
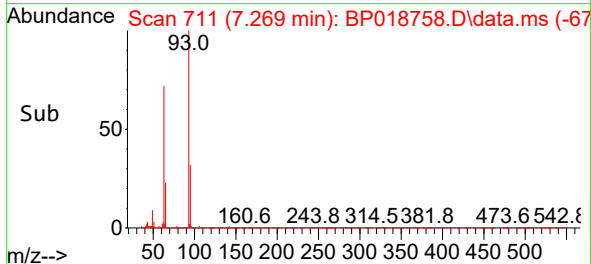
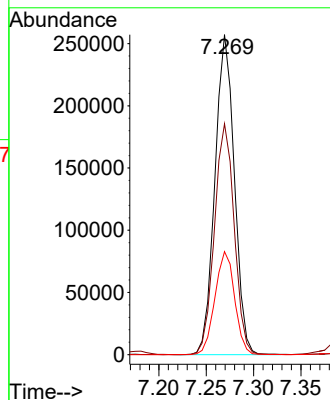
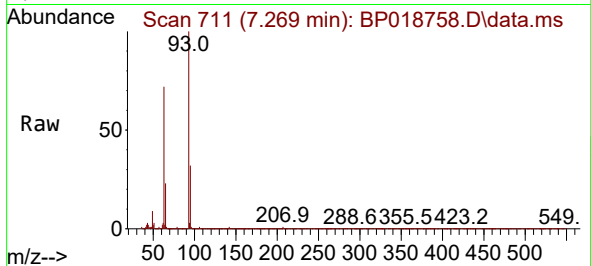




#10
Bis(2-Chloroethyl)ether
Concen: 26.343 ng/ul
RT: 7.269 min Scan# 711
Delta R.T. 0.006 min
Lab File: BP018758.D
Acq: 12 Dec 2023 09:32

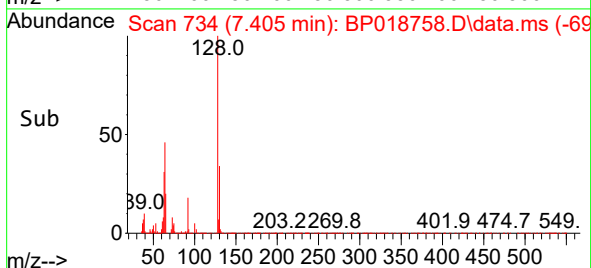
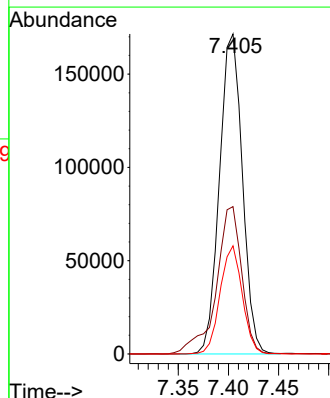
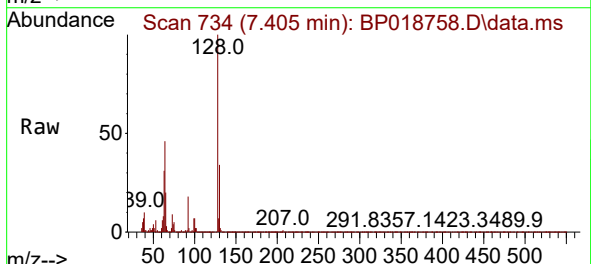
Instrument :
BNA_P
ClientSampleId :

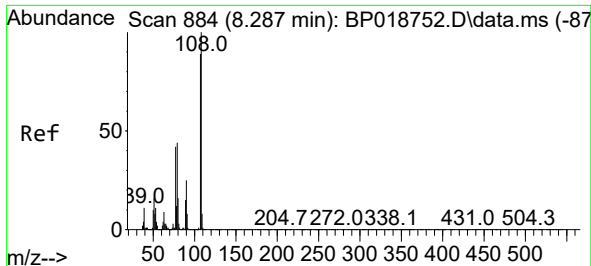
Tgt Ion: 93 Resp: 367367
Ion Ratio Lower Upper
93 100
63 72.2 58.3 87.5
95 32.2 25.9 38.9



#12
2-Chlorophenol
Concen: 19.911 ng/ul
RT: 7.405 min Scan# 734
Delta R.T. 0.006 min
Lab File: BP018758.D
Acq: 12 Dec 2023 09:32

Tgt Ion:128 Resp: 272268
Ion Ratio Lower Upper
128 100
64 46.0 37.0 55.4
130 33.8 26.8 40.2





#13

2-Methylphenol

Concen: 14.133 ng/ul

RT: 8.287 min Scan# 884

Delta R.T. 0.006 min

Lab File: BP018758.D

Acq: 12 Dec 2023 09:32

Instrument :

BNA_P

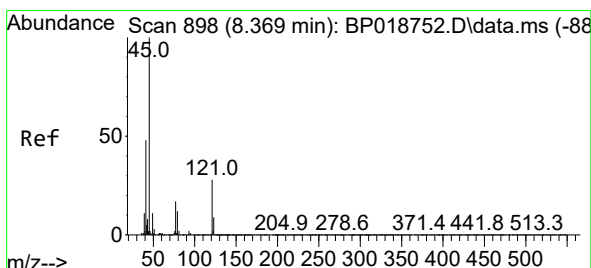
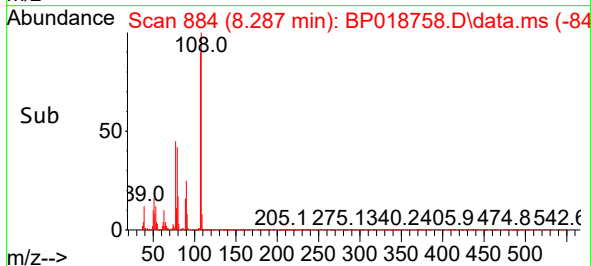
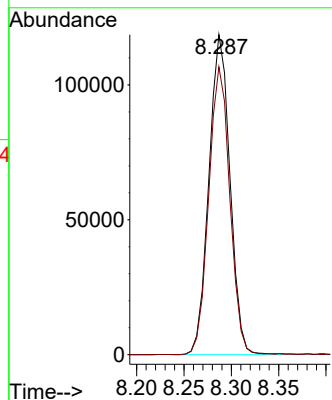
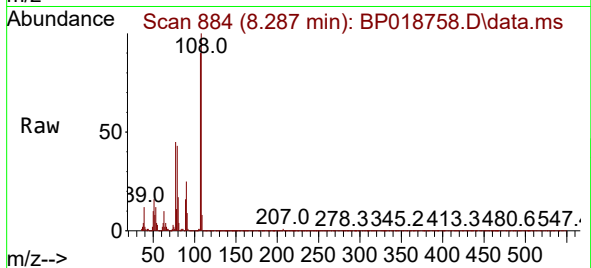
ClientSampleId :

Tgt Ion:108 Resp: 183725

Ion Ratio Lower Upper

108 100

107 89.9 70.6 105.8



#14

2,2'-oxybis(1-Chloropropane)

Concen: 24.613 ng/ul

RT: 8.363 min Scan# 897

Delta R.T. -0.006 min

Lab File: BP018758.D

Acq: 12 Dec 2023 09:32

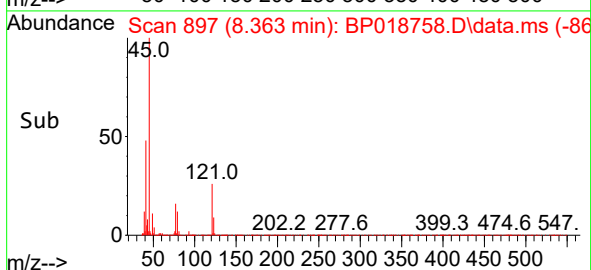
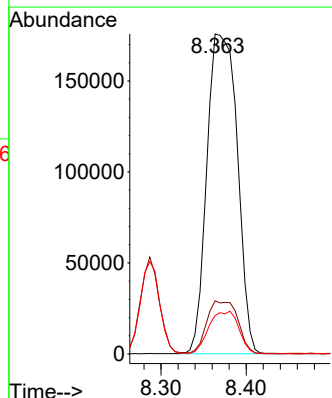
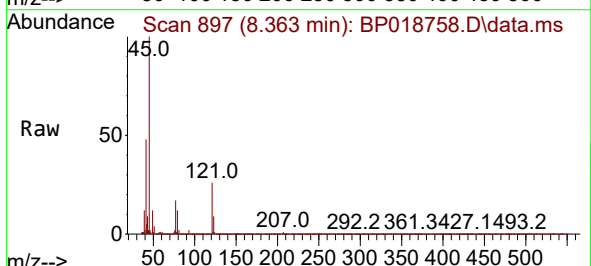
Tgt Ion: 45 Resp: 435521

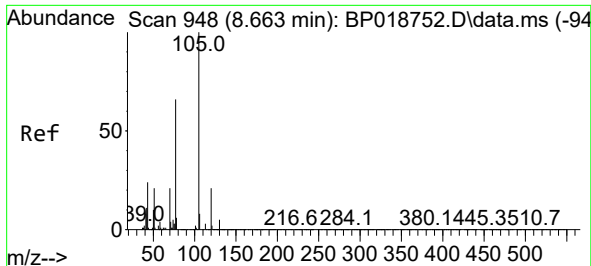
Ion Ratio Lower Upper

45 100

77 16.6 12.7 19.1

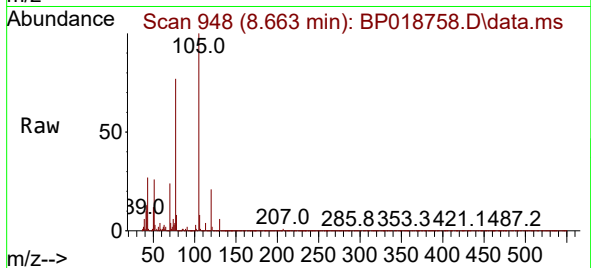
79 12.0 10.5 15.7



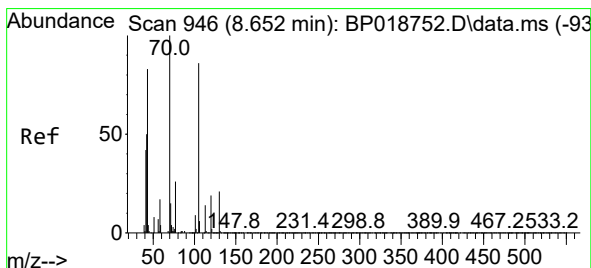
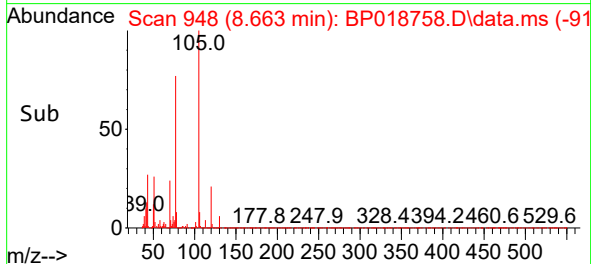
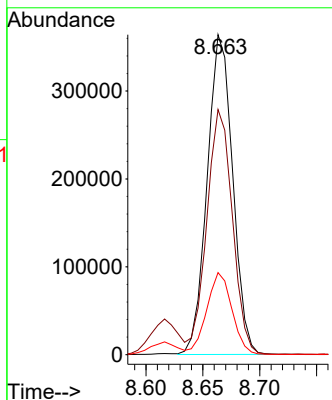


#16
Acetophenone
Concen: 27.236 ng/ul
RT: 8.663 min Scan# 948
Delta R.T. 0.000 min
Lab File: BP018758.D
Acq: 12 Dec 2023 09:32

Instrument :
BNA_P
ClientSampleId :

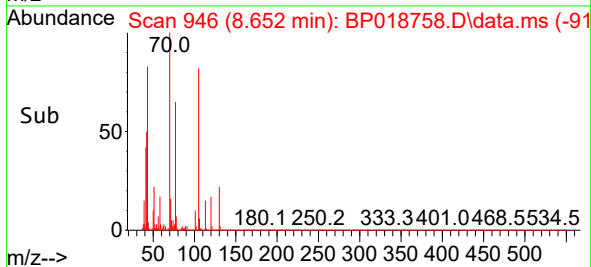
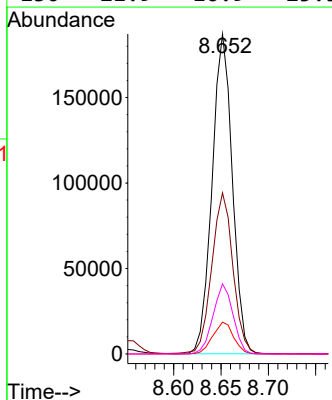
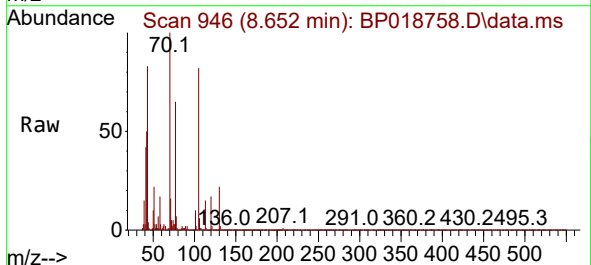


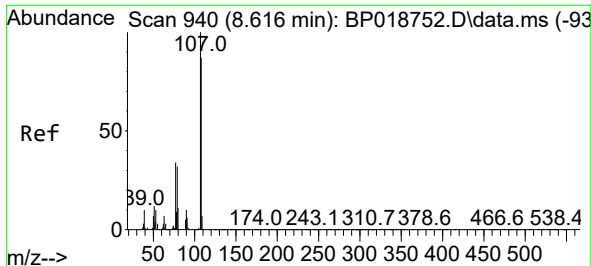
Tgt Ion:105 Resp: 568805
Ion Ratio Lower Upper
105 100
77 76.6 59.4 89.0
51 25.6 19.4 29.0



#17
N-Nitroso-di-n-propylamine
Concen: 24.231 ng/ul
RT: 8.652 min Scan# 946
Delta R.T. 0.000 min
Lab File: BP018758.D
Acq: 12 Dec 2023 09:32

Tgt Ion: 70 Resp: 278387
Ion Ratio Lower Upper
70 100
42 50.3 41.0 61.4
101 9.9 7.8 11.8
130 21.9 16.9 25.3

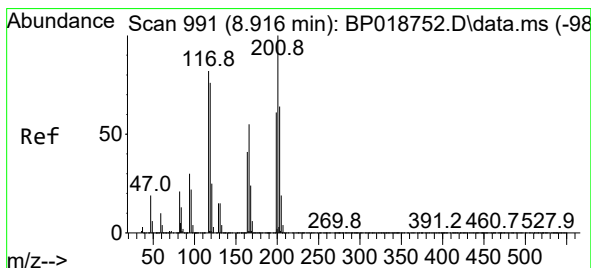
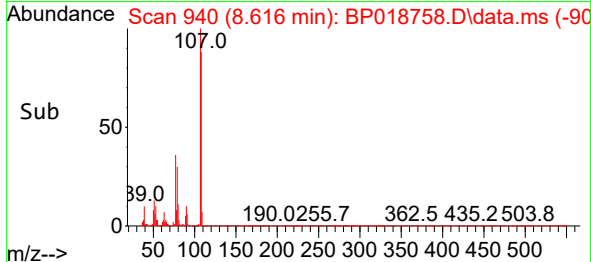
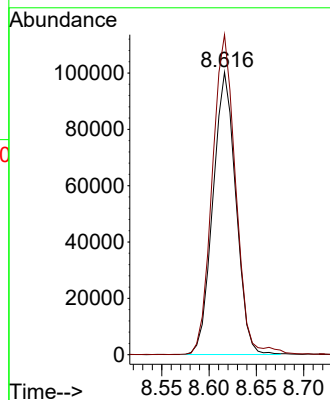
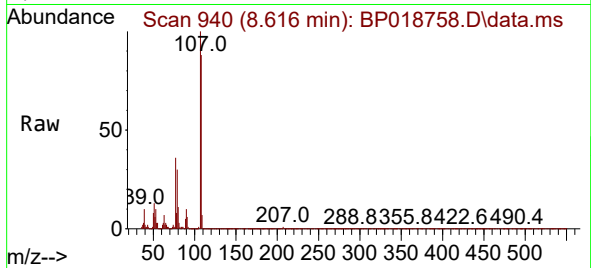




#18
4-Methylphenol
Concen: 11.891 ng/ul
RT: 8.616 min Scan# 940
Delta R.T. 0.000 min
Lab File: BP018758.D
Acq: 12 Dec 2023 09:32

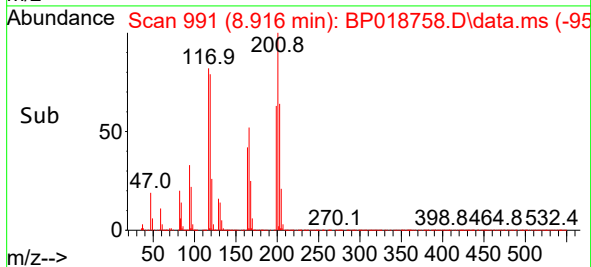
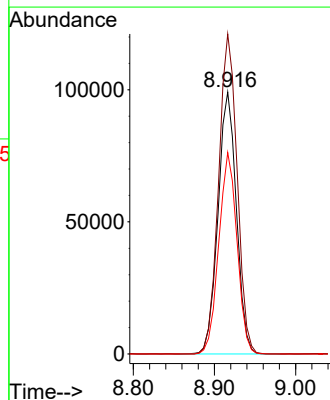
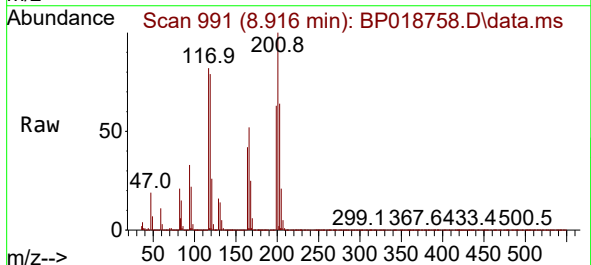
Instrument :
BNA_P
ClientSampleId :

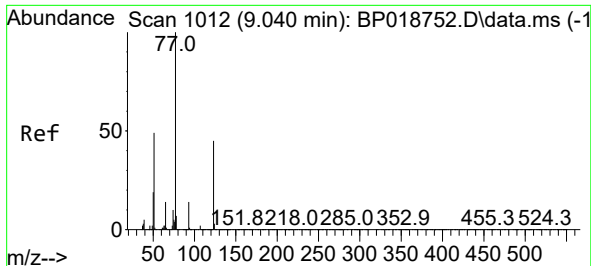
Tgt Ion:108 Resp: 168793
Ion Ratio Lower Upper
108 100
107 113.3 90.6 136.0



#19
Hexachloroethane
Concen: 27.809 ng/ul
RT: 8.916 min Scan# 991
Delta R.T. 0.000 min
Lab File: BP018758.D
Acq: 12 Dec 2023 09:32

Tgt Ion:117 Resp: 155893
Ion Ratio Lower Upper
117 100
201 122.2 83.7 125.5
199 76.9 52.3 78.5

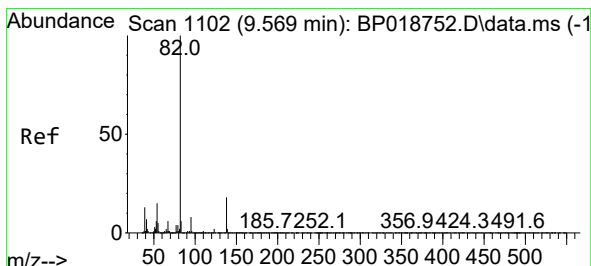
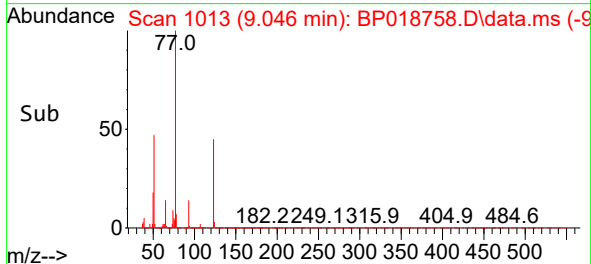
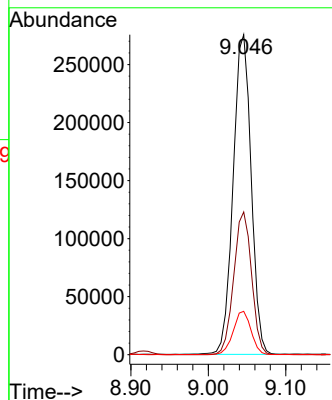
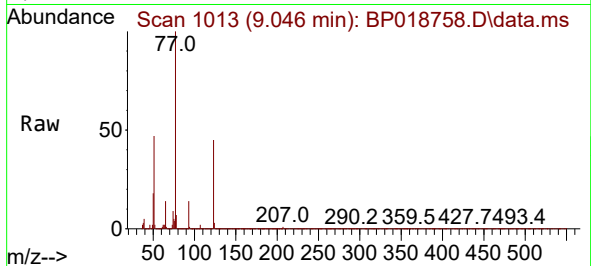




#22
Nitrobenzene
Concen: 30.812 ng/ul
RT: 9.046 min Scan# 1012
Delta R.T. 0.006 min
Lab File: BP018758.D
Acq: 12 Dec 2023 09:32

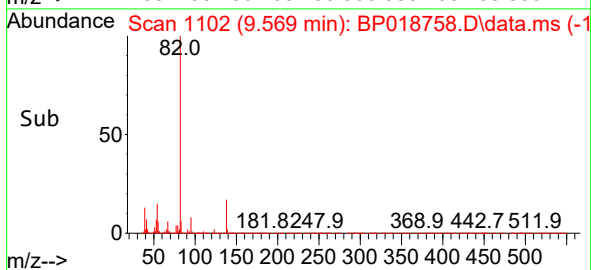
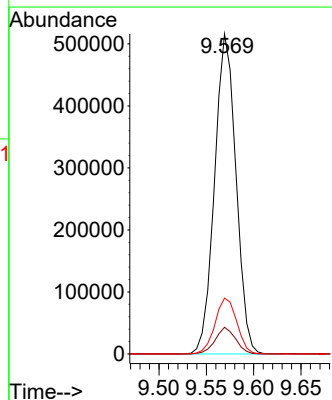
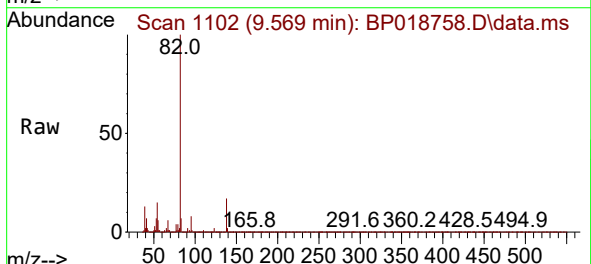
Instrument :
BNA_P
ClientSampleId :

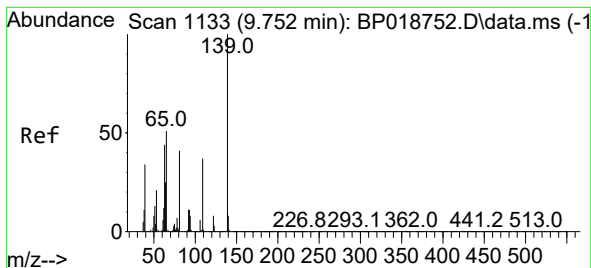
Tgt Ion: 77 Resp: 445494
Ion Ratio Lower Upper
77 100
123 44.6 35.8 53.8
65 13.6 10.5 15.7



#23
Isophorone
Concen: 27.509 ng/ul
RT: 9.569 min Scan# 1102
Delta R.T. 0.000 min
Lab File: BP018758.D
Acq: 12 Dec 2023 09:32

Tgt Ion: 82 Resp: 810962
Ion Ratio Lower Upper
82 100
95 8.4 5.5 8.3#
138 17.5 13.5 20.3





#25

2-Nitrophenol

Concen: 30.677 ng/ul

RT: 9.751 min Scan# 1133

Delta R.T. 0.000 min

Lab File: BP018758.D

Acq: 12 Dec 2023 09:32

Instrument :

BNA_P

ClientSampleId :

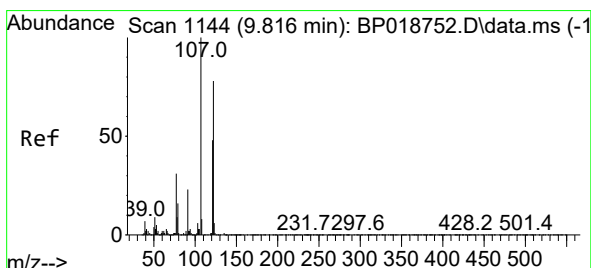
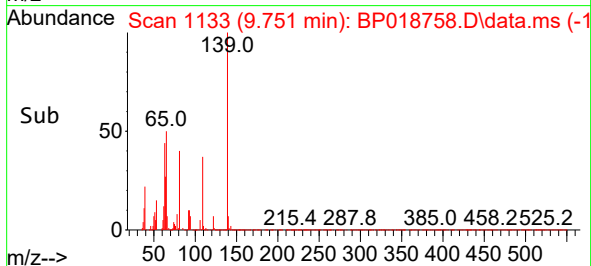
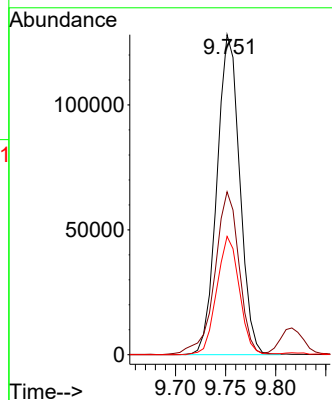
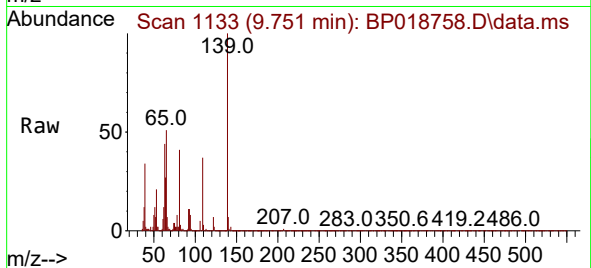
Tgt Ion:139 Resp: 202506

Ion Ratio Lower Upper

139 100

65 50.9 39.1 58.7

109 37.0 23.8 35.6#



#26

2,4-Dimethylphenol

Concen: 14.979 ng/ul

RT: 9.816 min Scan# 1144

Delta R.T. 0.000 min

Lab File: BP018758.D

Acq: 12 Dec 2023 09:32

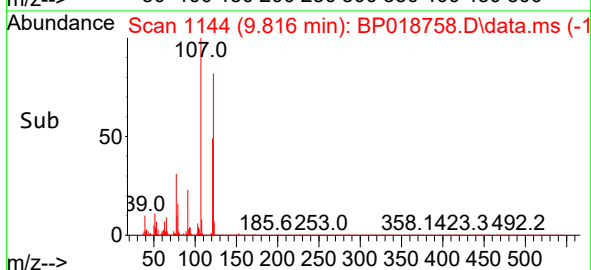
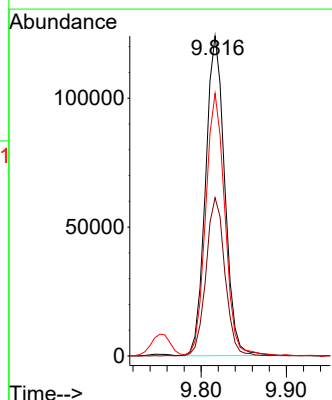
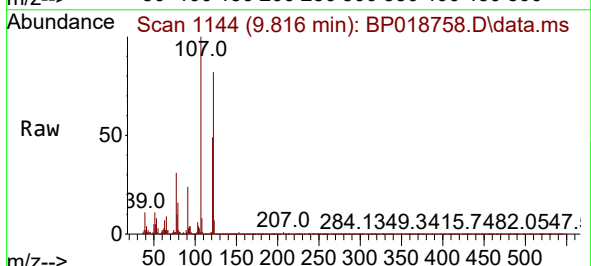
Tgt Ion:107 Resp: 193394

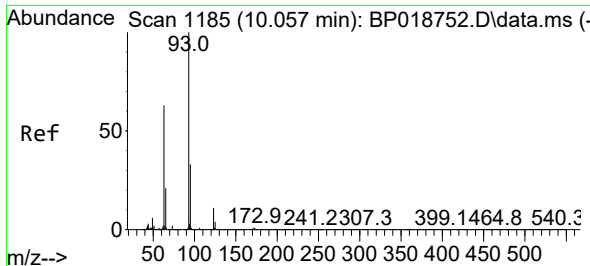
Ion Ratio Lower Upper

107 100

121 49.5 40.0 60.0

122 82.1 69.1 103.7

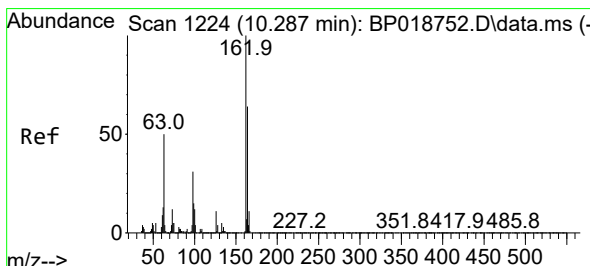
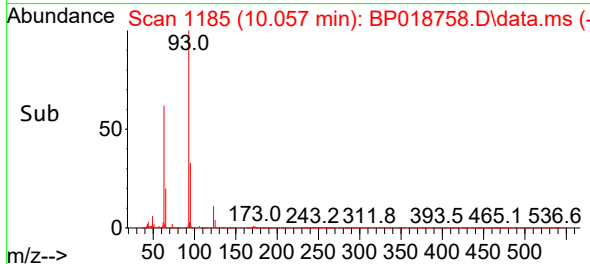
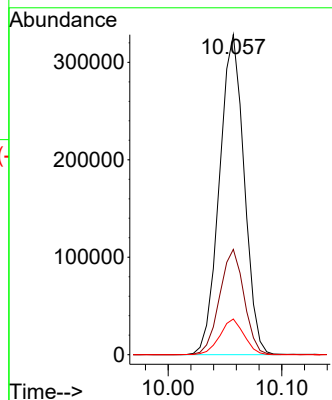
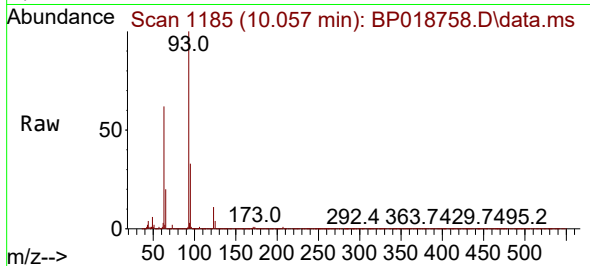




#27
Bis(2-Chloroethoxy)methane
Concen: 26.652 ng/ul
RT: 10.057 min Scan# 1185
Delta R.T. 0.000 min
Lab File: BP018758.D
Acq: 12 Dec 2023 09:32

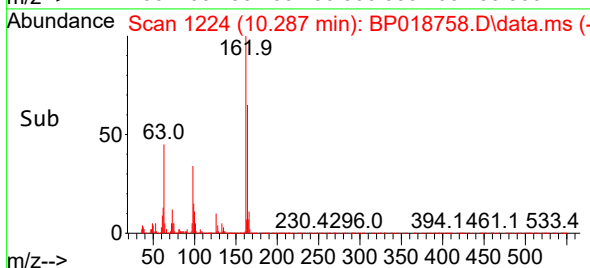
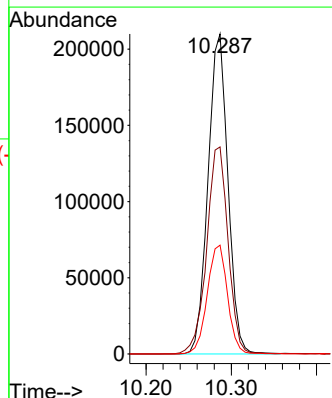
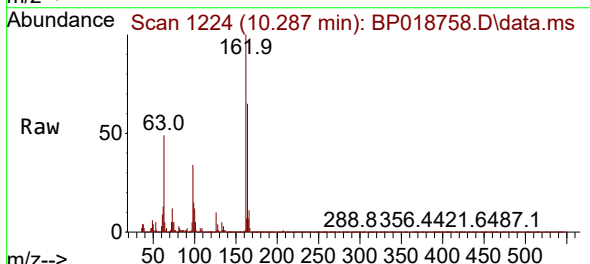
Instrument :
BNA_P
ClientSampleId :

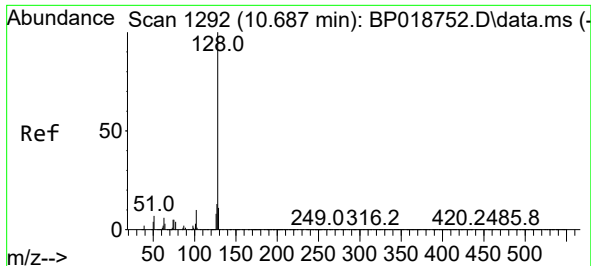
Tgt Ion: 93 Resp: 496034
Ion Ratio Lower Upper
93 100
95 32.9 26.1 39.1
123 11.1 8.9 13.3



#29
2,4-Dichlorophenol
Concen: 28.087 ng/ul
RT: 10.287 min Scan# 1224
Delta R.T. 0.006 min
Lab File: BP018758.D
Acq: 12 Dec 2023 09:32

Tgt Ion:162 Resp: 341067
Ion Ratio Lower Upper
162 100
164 64.7 51.7 77.5
98 34.0 29.2 43.8

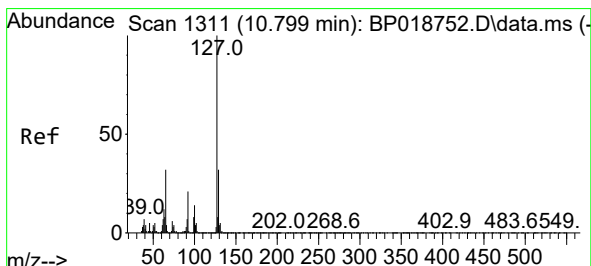
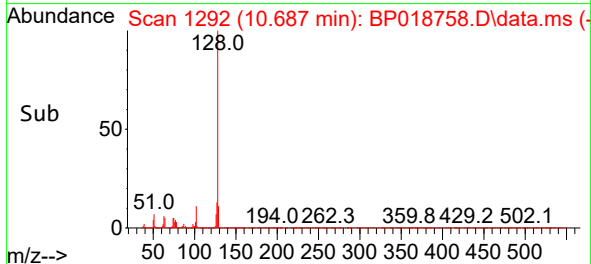
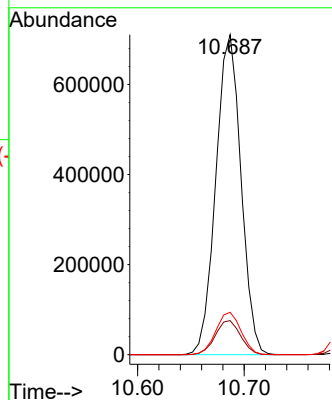
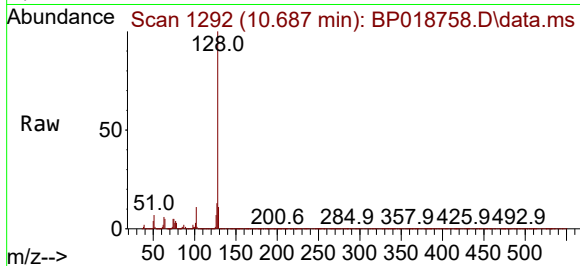




#30
Naphthalene
Concen: 28.677 ng/ul
RT: 10.687 min Scan# 1292
Delta R.T. 0.000 min
Lab File: BP018758.D
Acq: 12 Dec 2023 09:32

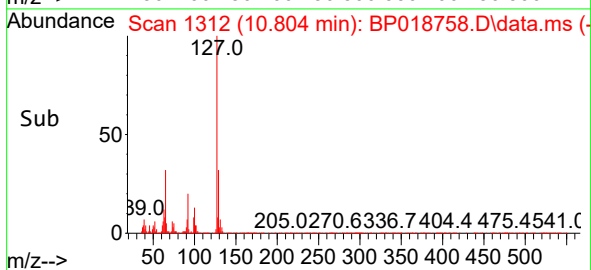
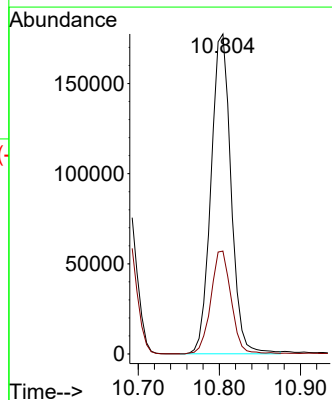
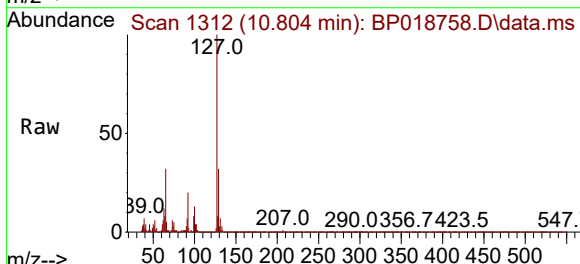
Instrument :
BNA_P
ClientSampleId :

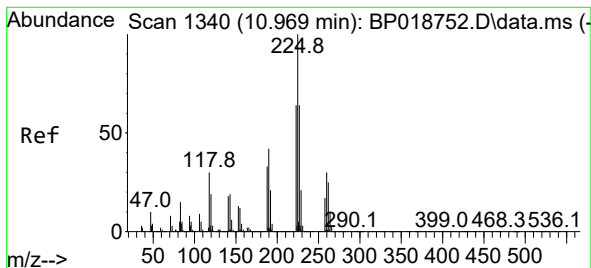
Tgt Ion:128 Resp: 1162358
Ion Ratio Lower Upper
128 100
129 10.6 8.9 13.3
127 13.2 10.5 15.7



#32
4-Chloroaniline
Concen: 19.368 ng/ul
RT: 10.804 min Scan# 1312
Delta R.T. 0.006 min
Lab File: BP018758.D
Acq: 12 Dec 2023 09:32

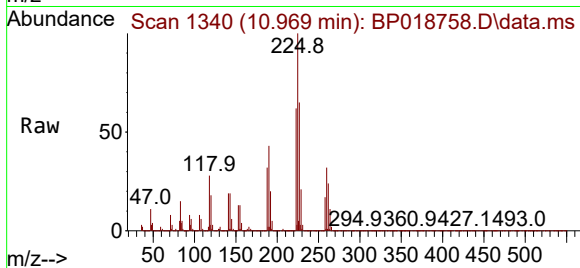
Tgt Ion:127 Resp: 304130
Ion Ratio Lower Upper
127 100
129 32.2 25.6 38.4



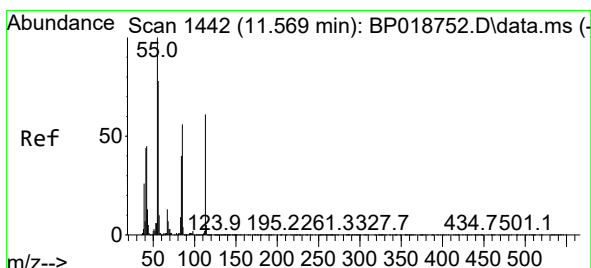
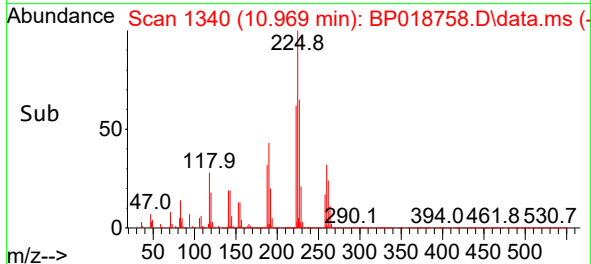
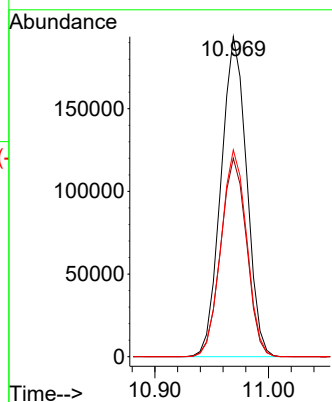


#33
Hexachlorobutadiene
Concen: 37.357 ng/ul
RT: 10.969 min Scan# 11
Delta R.T. 0.000 min
Lab File: BP018758.D
Acq: 12 Dec 2023 09:32

Instrument :
BNA_P
ClientSampleId :

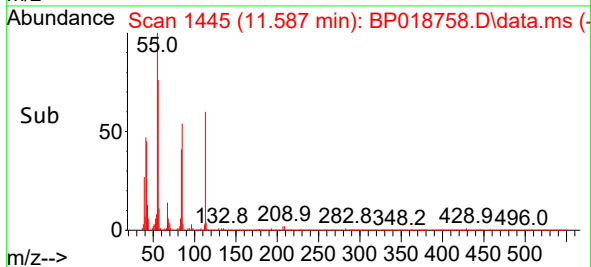
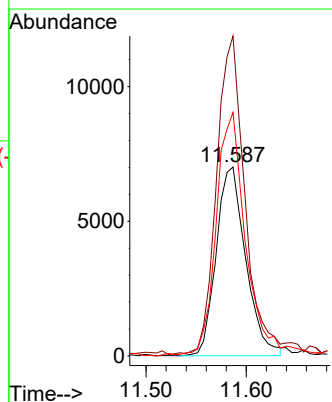
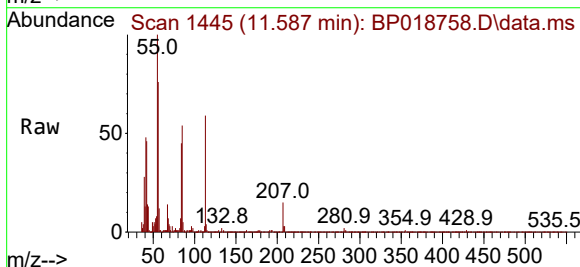


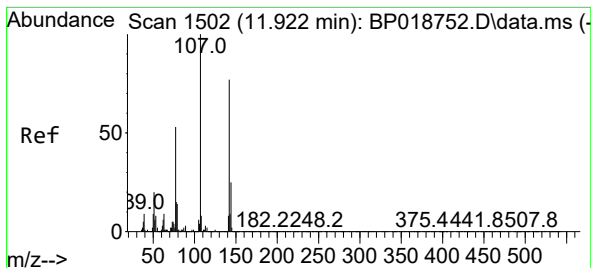
Tgt Ion:225 Resp: 303807
Ion Ratio Lower Upper
225 100
223 62.0 49.5 74.3
227 64.6 50.9 76.3



#34
Caprolactam
Concen: 3.851 ng/ul
RT: 11.587 min Scan# 1445
Delta R.T. 0.012 min
Lab File: BP018758.D
Acq: 12 Dec 2023 09:32

Tgt Ion:113 Resp: 14339
Ion Ratio Lower Upper
113 100
55 169.3 133.7 200.5
56 128.8 97.4 146.2

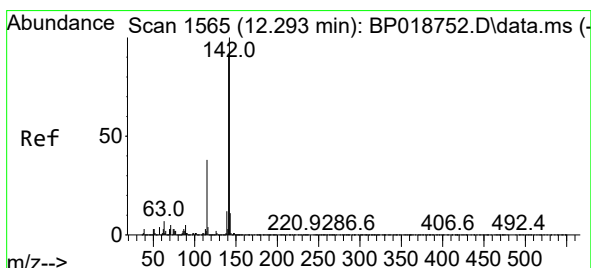
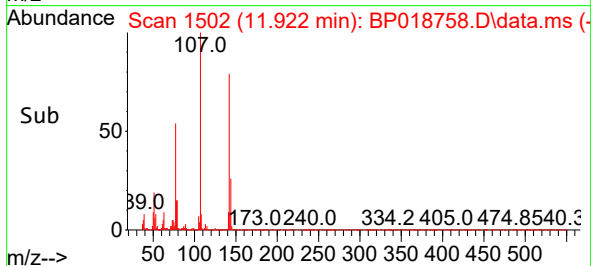
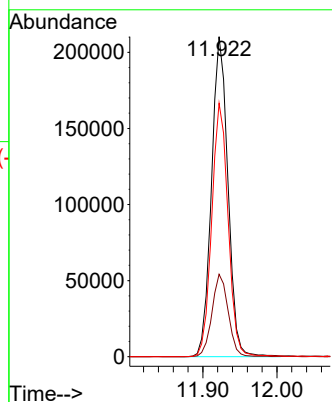
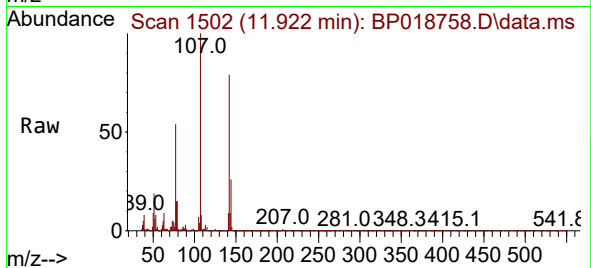




#35
 4-Chloro-3-methylphenol
 Concen: 23.802 ng/ul
 RT: 11.922 min Scan# 1502
 Delta R.T. 0.000 min
 Lab File: BP018758.D
 Acq: 12 Dec 2023 09:32

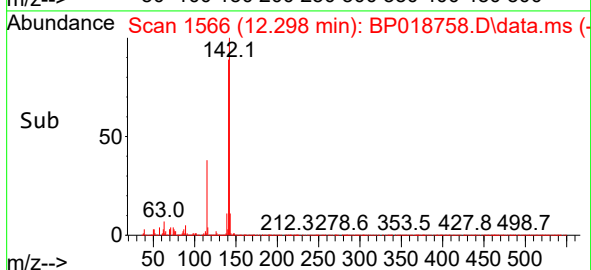
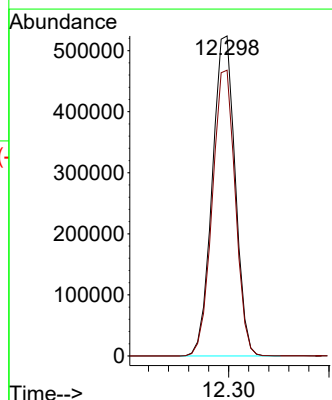
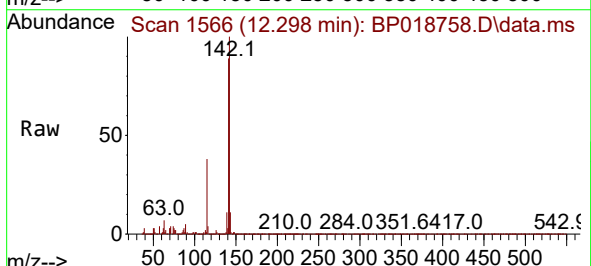
Instrument :
 BNA_P
 ClientSampleId :

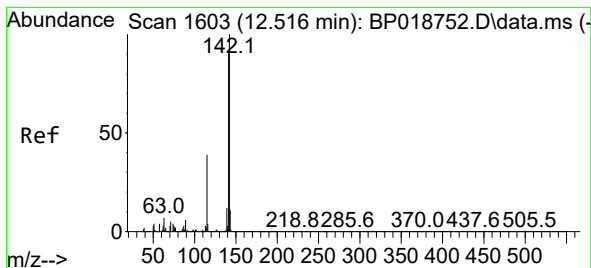
Tgt Ion:107 Resp: 323789
 Ion Ratio Lower Upper
 107 100
 144 25.7 21.0 31.6
 142 79.2 63.6 95.4



#36
 2-Methylnaphthalene
 Concen: 28.993 ng/ul
 RT: 12.298 min Scan# 1566
 Delta R.T. 0.000 min
 Lab File: BP018758.D
 Acq: 12 Dec 2023 09:32

Tgt Ion:142 Resp: 832522
 Ion Ratio Lower Upper
 142 100
 141 89.3 71.4 107.0





#37

1-Methylnaphthalene

Concen: 28.024 ng/ul

RT: 12.516 min Scan# 1603

Delta R.T. 0.000 min

Lab File: BP018758.D

Acq: 12 Dec 2023 09:32

Instrument :

BNA_P

ClientSampleId :

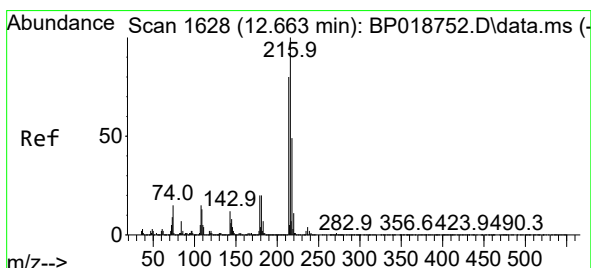
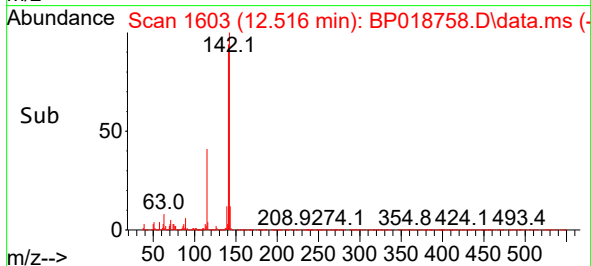
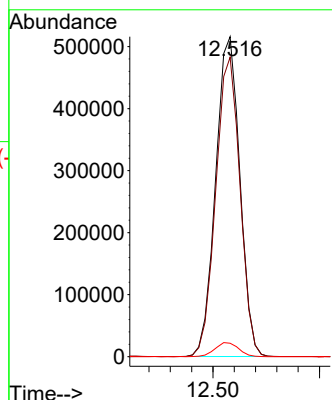
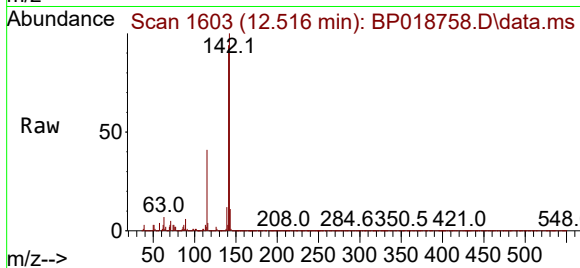
Tgt Ion:142 Resp: 812668

Ion Ratio Lower Upper

142 100

141 93.6 73.5 110.3

116 4.2 2.8 4.2#



#39

1,2,4,5-Tetrachlorobenzene

Concen: 35.837 ng/ul

RT: 12.663 min Scan# 1628

Delta R.T. 0.000 min

Lab File: BP018758.D

Acq: 12 Dec 2023 09:32

Tgt Ion:216 Resp: 555637

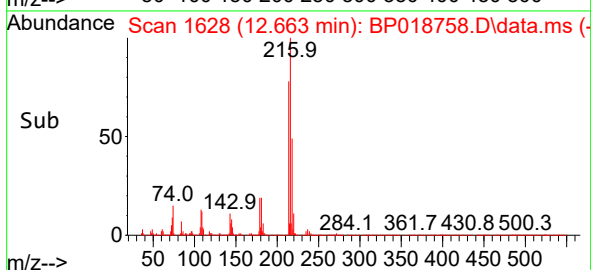
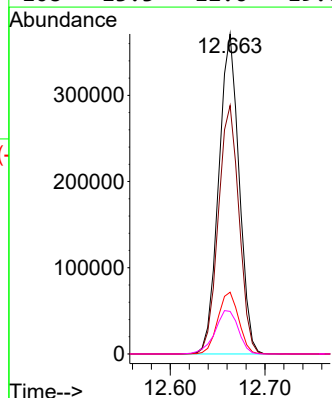
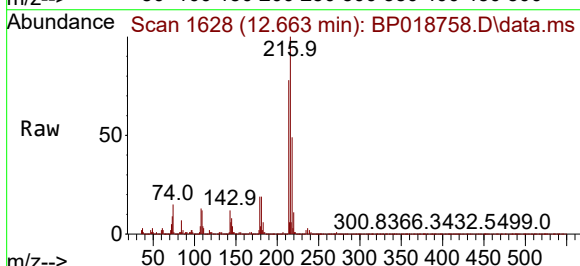
Ion Ratio Lower Upper

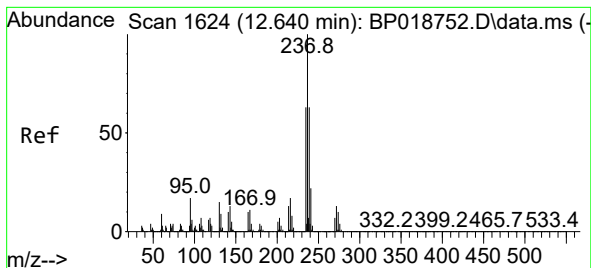
216 100

214 77.7 63.9 95.9

179 19.3 16.3 24.5

108 13.3 12.6 19.0





#40

Hexachlorocyclopentadiene

Concen: 26.424 ng/ul

RT: 12.640 min Scan# 1

Delta R.T. 0.000 min

Lab File: BP018758.D

Acq: 12 Dec 2023 09:32

Instrument :

BNA_P

ClientSampleId :

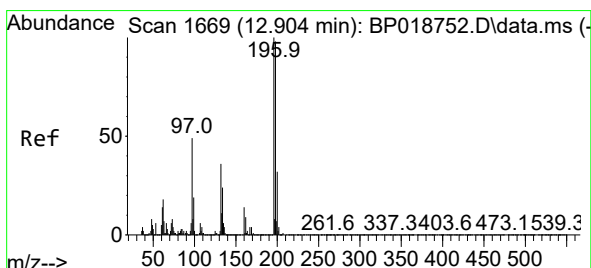
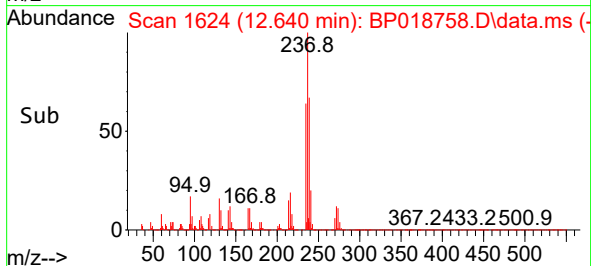
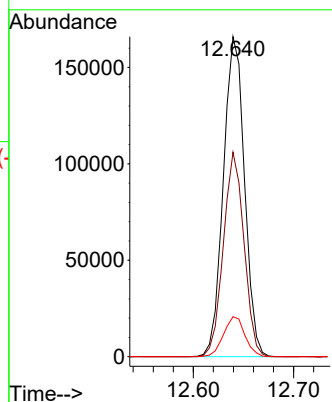
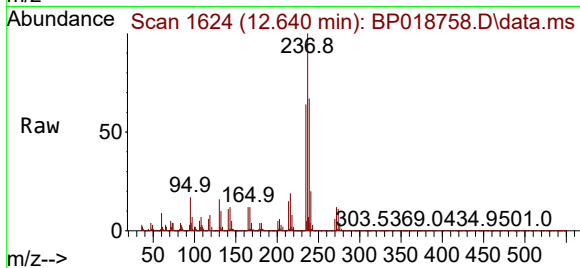
Tgt Ion:237 Resp: 242834

Ion Ratio Lower Upper

237 100

235 63.9 49.4 74.0

272 12.5 9.8 14.8



#41

2,4,6-Trichlorophenol

Concen: 34.017 ng/ul

RT: 12.904 min Scan# 1669

Delta R.T. 0.000 min

Lab File: BP018758.D

Acq: 12 Dec 2023 09:32

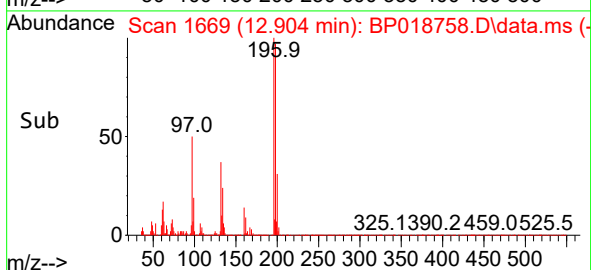
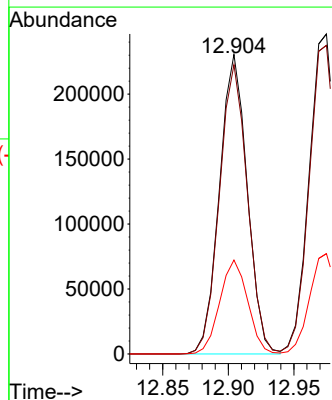
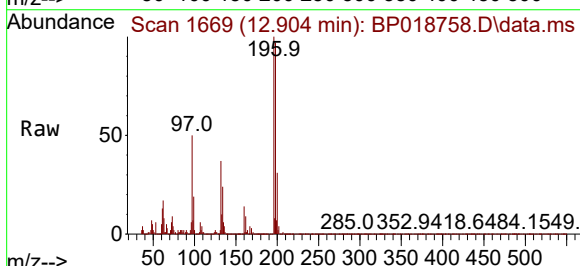
Tgt Ion:196 Resp: 339290

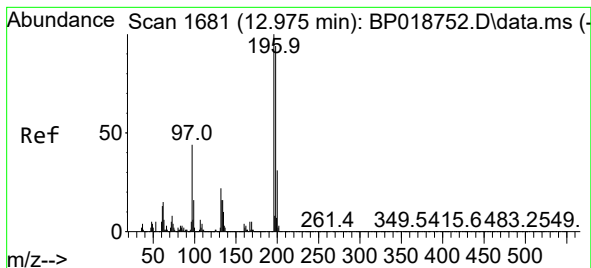
Ion Ratio Lower Upper

196 100

198 96.6 76.9 115.3

200 31.4 25.0 37.6

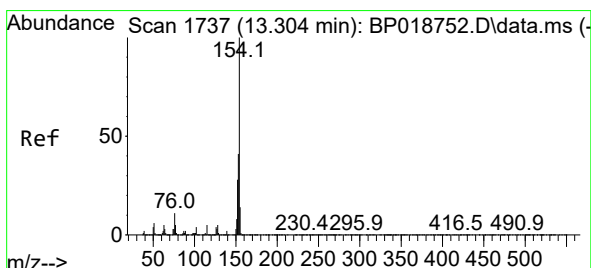
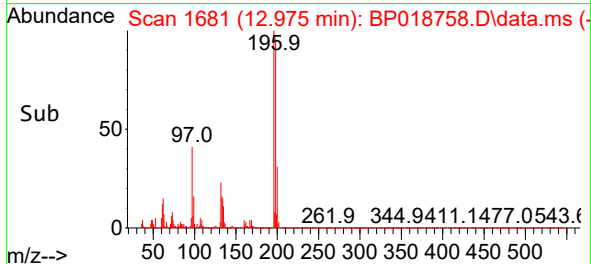
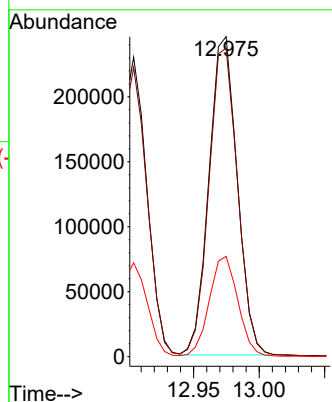
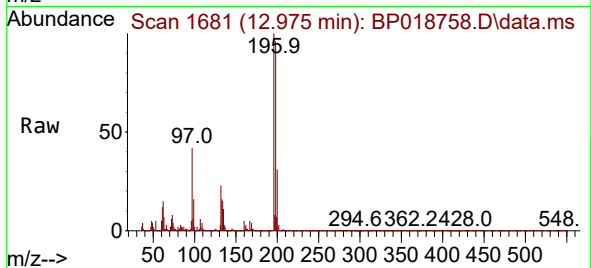




#42
2,4,5-Trichlorophenol
Concen: 34.036 ng/ul
RT: 12.975 min Scan# 1681
Delta R.T. 0.000 min
Lab File: BP018758.D
Acq: 12 Dec 2023 09:32

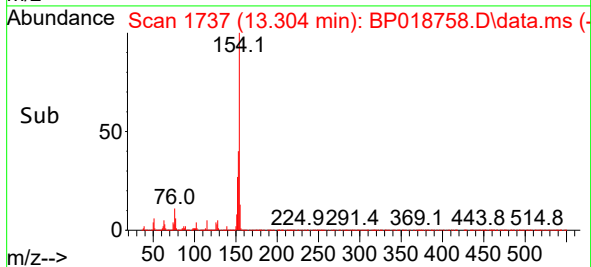
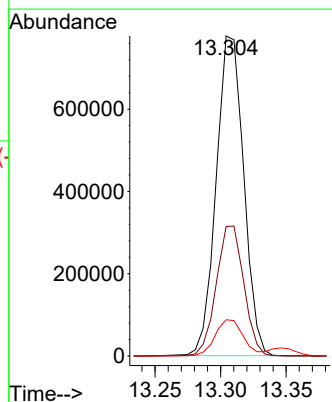
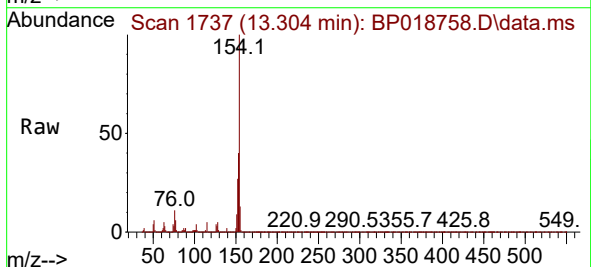
Instrument :
BNA_P
ClientSampleId :

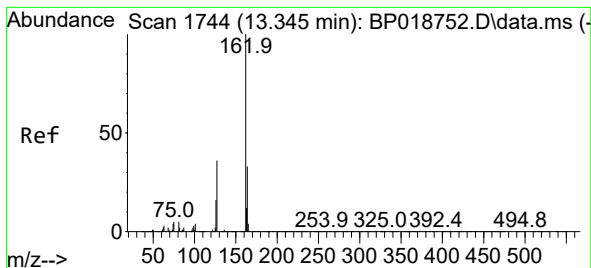
Tgt Ion:196 Resp: 368041
Ion Ratio Lower Upper
196 100
198 96.4 77.9 116.9
200 31.4 25.2 37.8



#43
1,1'-Biphenyl
Concen: 30.657 ng/ul
RT: 13.304 min Scan# 1737
Delta R.T. -0.006 min
Lab File: BP018758.D
Acq: 12 Dec 2023 09:32

Tgt Ion:154 Resp: 1133072
Ion Ratio Lower Upper
154 100
153 40.5 32.8 49.2
76 11.3 10.7 16.1





#44

2-Chloronaphthalene

Concen: 31.727 ng/ul

RT: 13.345 min Scan# 1744

Delta R.T. -0.006 min

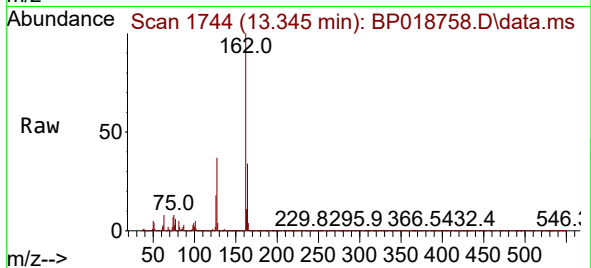
Lab File: BP018758.D

Acq: 12 Dec 2023 09:32

Instrument :

BNA_P

ClientSampleId :



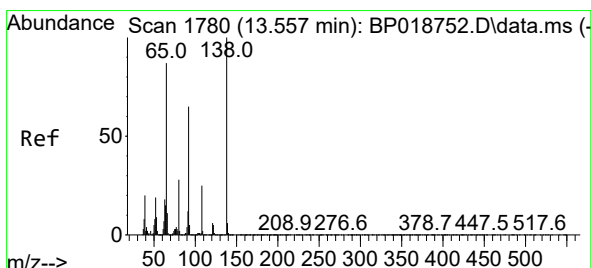
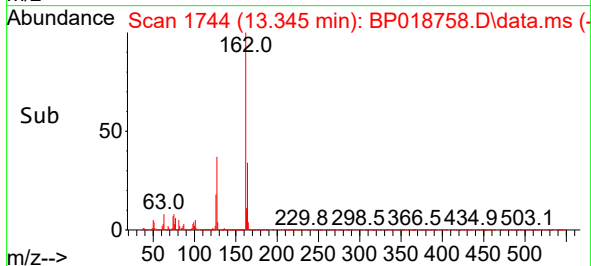
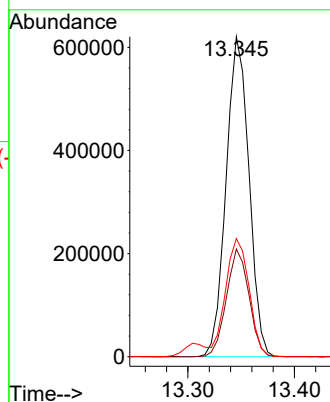
Tgt Ion:162 Resp: 926129

Ion Ratio Lower Upper

162 100

164 33.6 25.7 38.5

127 36.9 30.3 45.5



#45

2-Nitroaniline

Concen: 34.223 ng/ul

RT: 13.557 min Scan# 1780

Delta R.T. 0.000 min

Lab File: BP018758.D

Acq: 12 Dec 2023 09:32

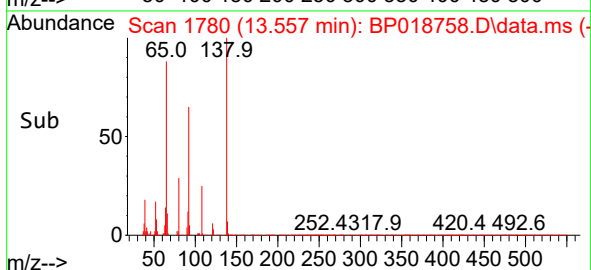
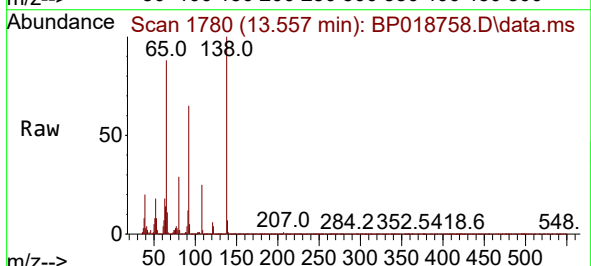
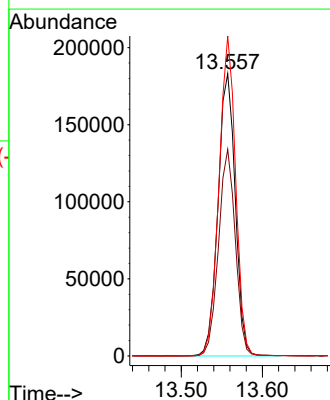
Tgt Ion: 65 Resp: 270820

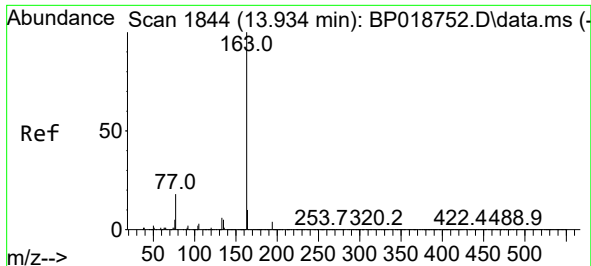
Ion Ratio Lower Upper

65 100

92 73.2 56.9 85.3

138 113.4 88.2 132.2

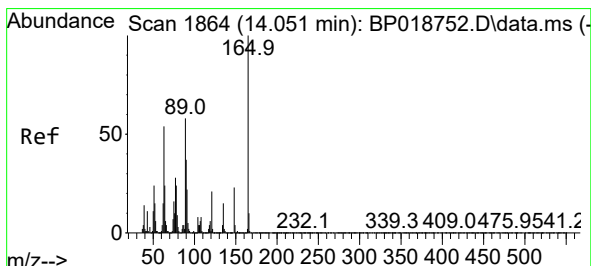
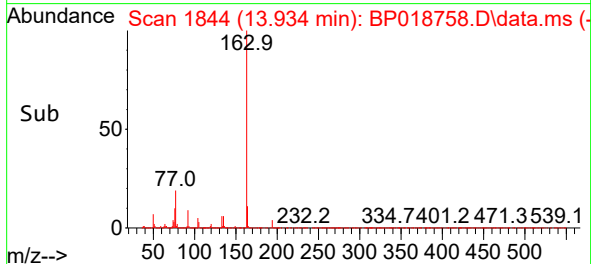
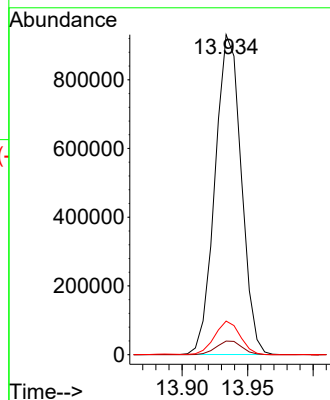
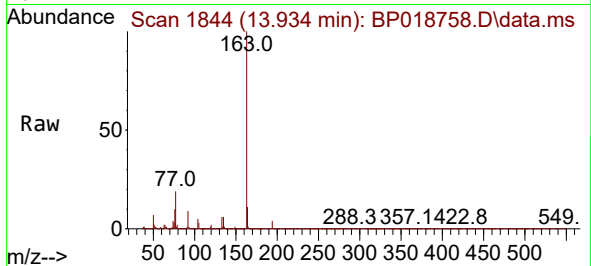




#47
Dimethylphthalate
Concen: 34.466 ng/ul
RT: 13.934 min Scan# 1844
Delta R.T. 0.000 min
Lab File: BP018758.D
Acq: 12 Dec 2023 09:32

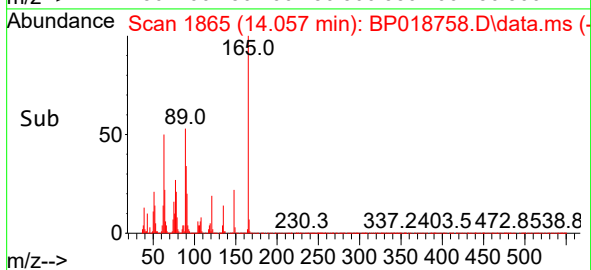
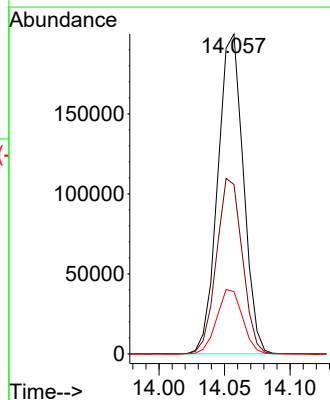
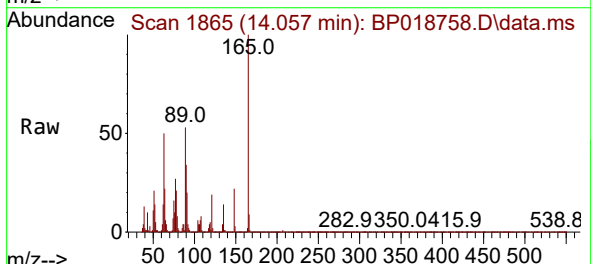
Instrument :
BNA_P
ClientSampleId :

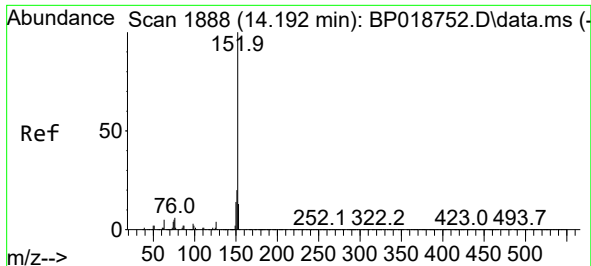
Tgt Ion:163 Resp: 1293988
Ion Ratio Lower Upper
163 100
194 4.3 3.2 4.8
164 10.5 8.0 12.0



#48
2,6-Dinitrotoluene
Concen: 38.209 ng/ul
RT: 14.057 min Scan# 1865
Delta R.T. 0.000 min
Lab File: BP018758.D
Acq: 12 Dec 2023 09:32

Tgt Ion:165 Resp: 271030
Ion Ratio Lower Upper
165 100
89 52.9 46.6 70.0
121 19.5 17.3 25.9

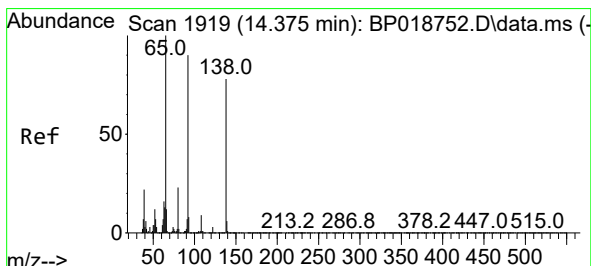
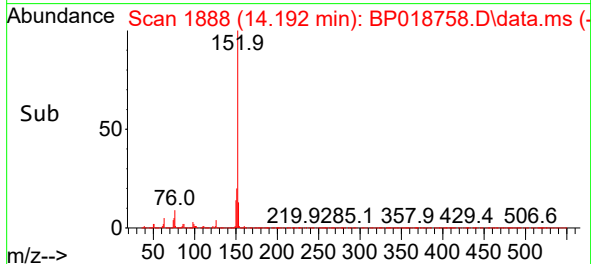
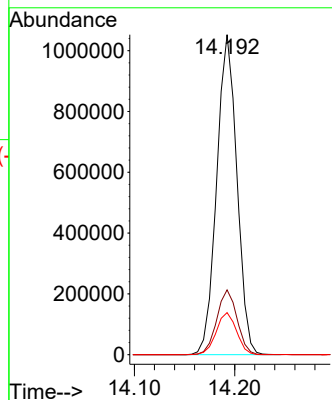
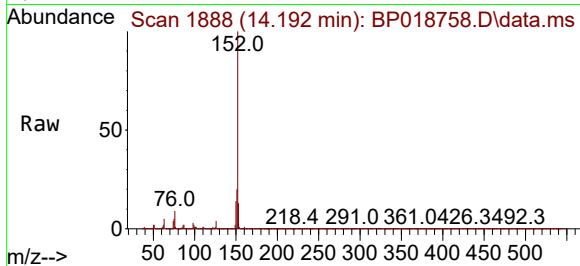




#50
Acenaphthylene
Concen: 31.169 ng/ul
RT: 14.192 min Scan# 1888
Delta R.T. 0.000 min
Lab File: BP018758.D
Acq: 12 Dec 2023 09:32

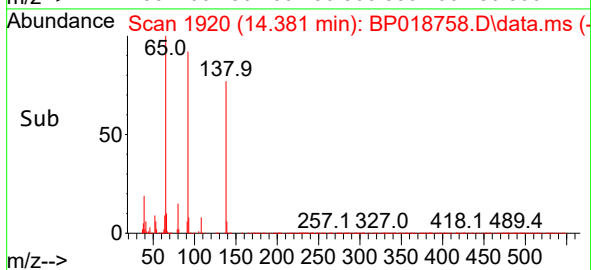
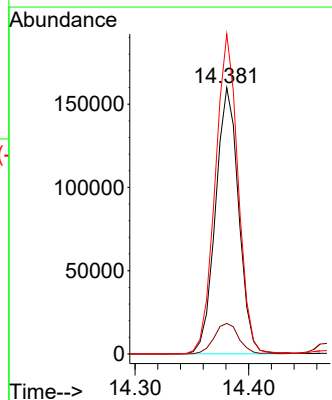
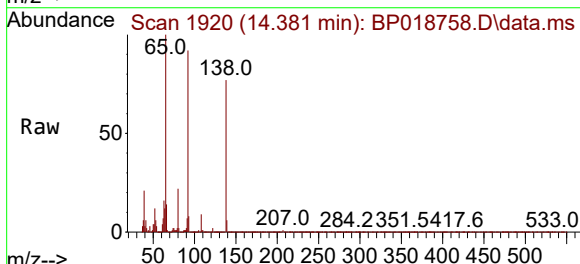
Instrument :
BNA_P
ClientSampleId :

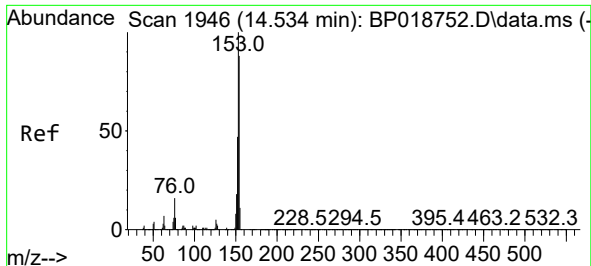
Tgt Ion:152 Resp: 1471778
Ion Ratio Lower Upper
152 100
151 20.3 15.9 23.9
153 13.2 10.6 16.0



#51
3-Nitroaniline
Concen: 31.960 ng/ul
RT: 14.381 min Scan# 1920
Delta R.T. 0.000 min
Lab File: BP018758.D
Acq: 12 Dec 2023 09:32

Tgt Ion:138 Resp: 226305
Ion Ratio Lower Upper
138 100
108 11.5 9.5 14.3
92 120.2 93.1 139.7

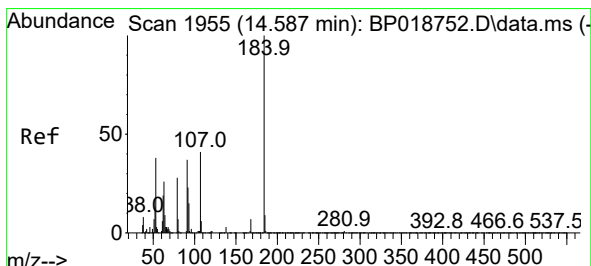
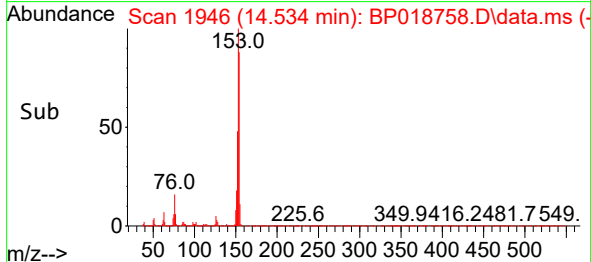
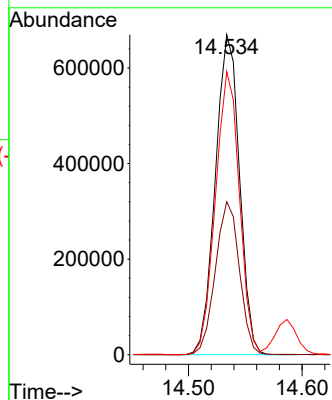
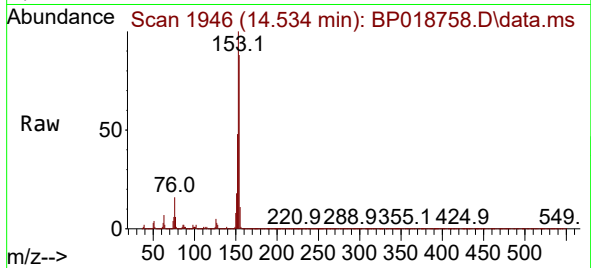




#52
Acenaphthene
Concen: 31.713 ng/ul
RT: 14.534 min Scan# 1946
Delta R.T. 0.000 min
Lab File: BP018758.D
Acq: 12 Dec 2023 09:32

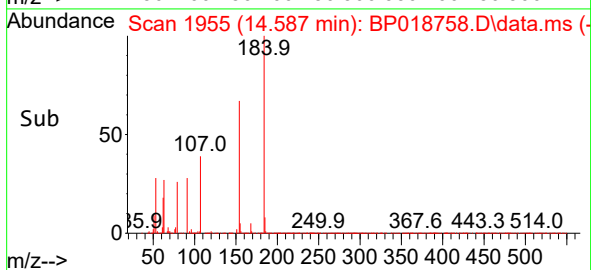
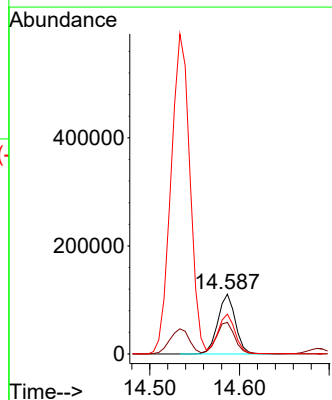
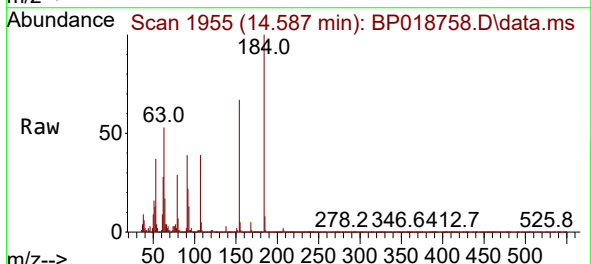
Instrument :
BNA_P
ClientSampleId :

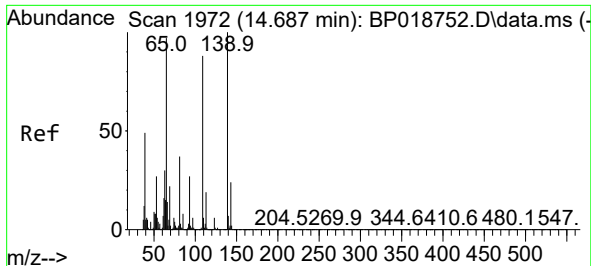
Tgt Ion:153 Resp: 990097
Ion Ratio Lower Upper
153 100
152 47.8 38.1 57.1
154 88.4 71.7 107.5



#53
2,4-Dinitrophenol
Concen: 39.842 ng/ul
RT: 14.587 min Scan# 1955
Delta R.T. 0.000 min
Lab File: BP018758.D
Acq: 12 Dec 2023 09:32

Tgt Ion:184 Resp: 149779
Ion Ratio Lower Upper
184 100
63 52.9 48.2 72.4
154 66.7 49.1 73.7

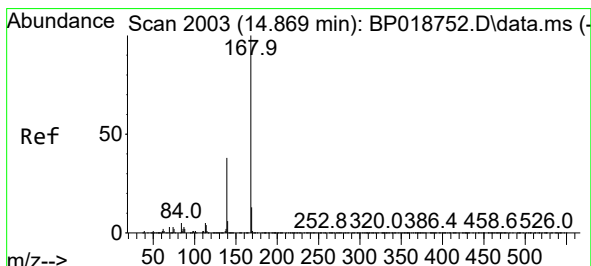
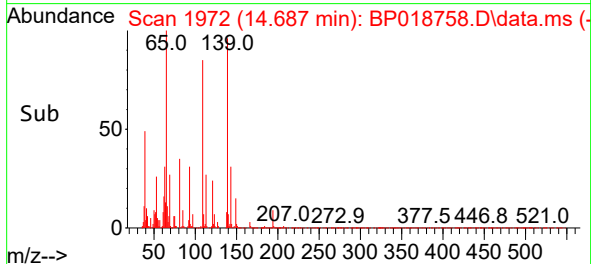
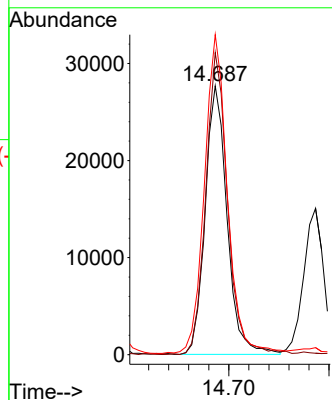
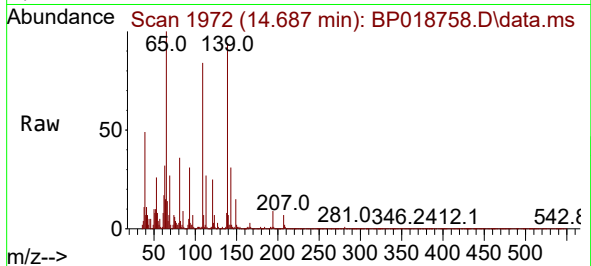




#55
4-Nitrophenol
Concen: 8.885 ng/ul
RT: 14.687 min Scan# 1972
Delta R.T. -0.006 min
Lab File: BP018758.D
Acq: 12 Dec 2023 09:32

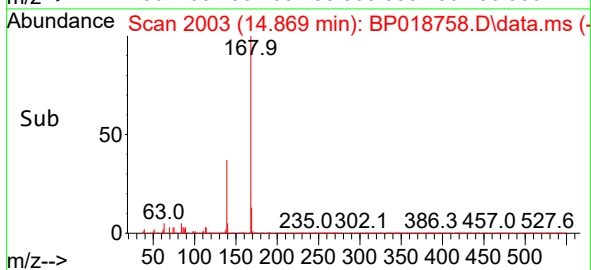
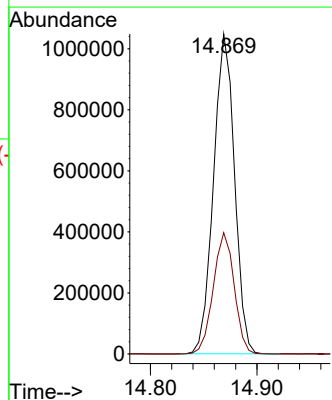
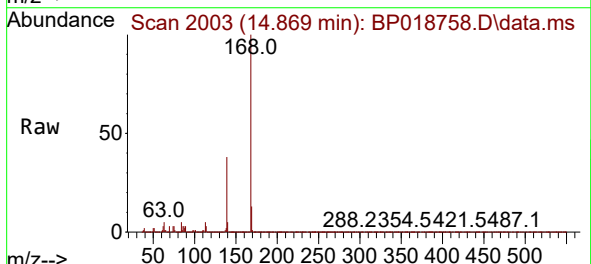
Instrument :
BNA_P
ClientSampleId :

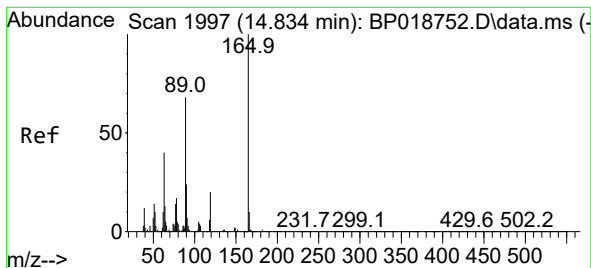
Tgt Ion:109 Resp: 42024
Ion Ratio Lower Upper
109 100
139 112.4 109.0 163.4
65 119.1 106.2 159.4



#56
Dibenzofuran
Concen: 32.997 ng/ul
RT: 14.869 min Scan# 2003
Delta R.T. 0.000 min
Lab File: BP018758.D
Acq: 12 Dec 2023 09:32

Tgt Ion:168 Resp: 1431837
Ion Ratio Lower Upper
168 100
139 37.9 29.1 43.7

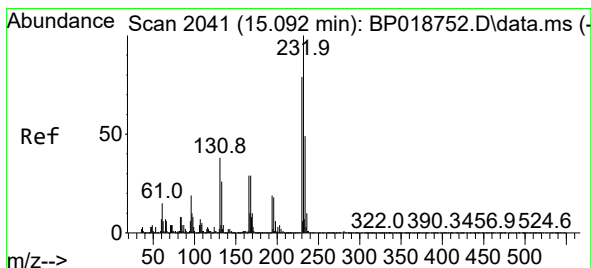
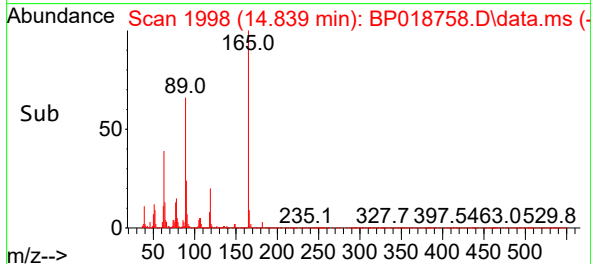
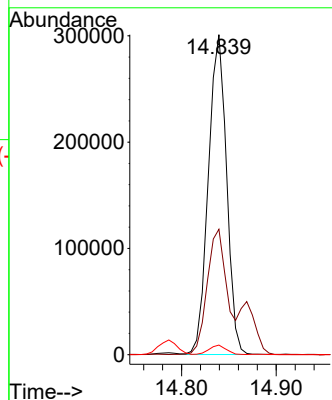
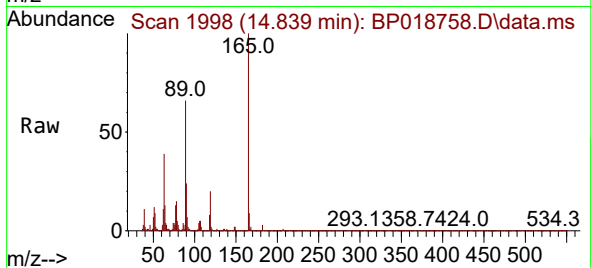




#57
2,4-Dinitrotoluene
Concen: 40.289 ng/ul
RT: 14.839 min Scan# 1997
Delta R.T. 0.000 min
Lab File: BP018758.D
Acq: 12 Dec 2023 09:32

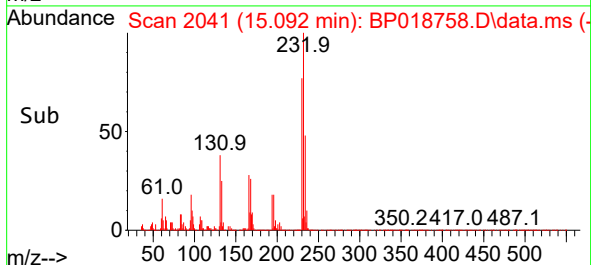
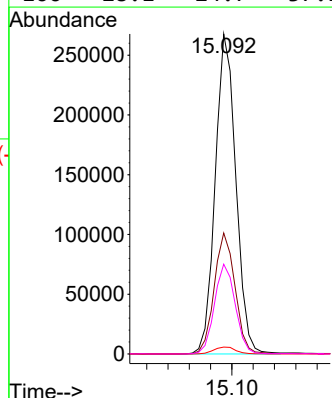
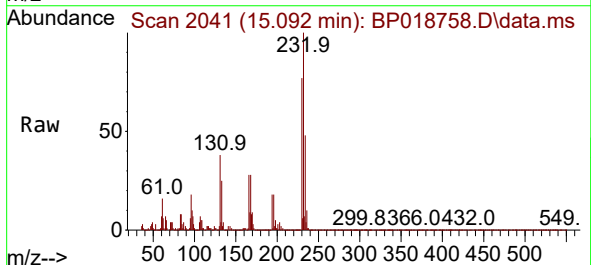
Instrument :
BNA_P
ClientSampleId :

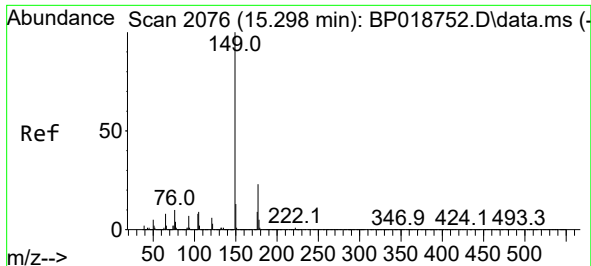
Tgt Ion:165 Resp: 401998
Ion Ratio Lower Upper
165 100
63 39.2 32.7 49.1
182 3.0 2.1 3.1



#58
2,3,4,6-Tetrachlorophenol
Concen: 39.603 ng/ul
RT: 15.092 min Scan# 2041
Delta R.T. -0.006 min
Lab File: BP018758.D
Acq: 12 Dec 2023 09:32

Tgt Ion:232 Resp: 359213
Ion Ratio Lower Upper
232 100
131 37.8 33.8 50.8
130 2.1 1.8 2.8
166 28.1 24.7 37.1

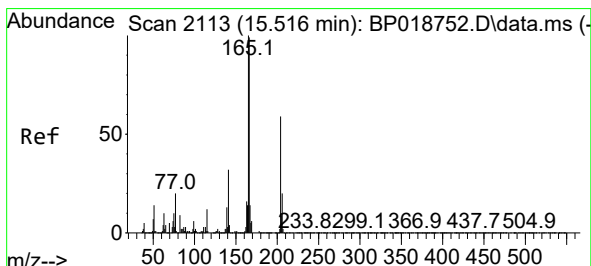
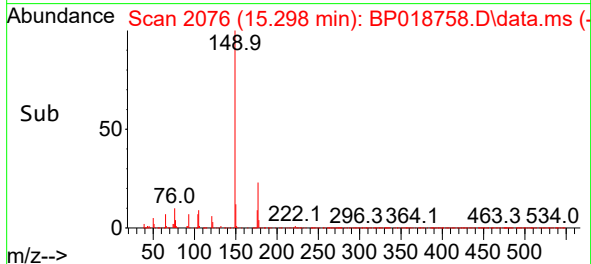
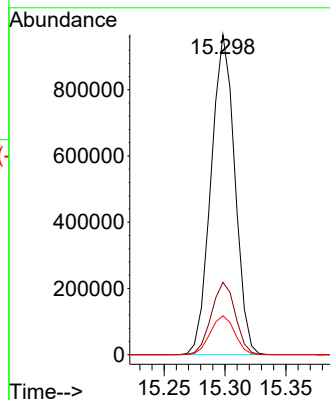
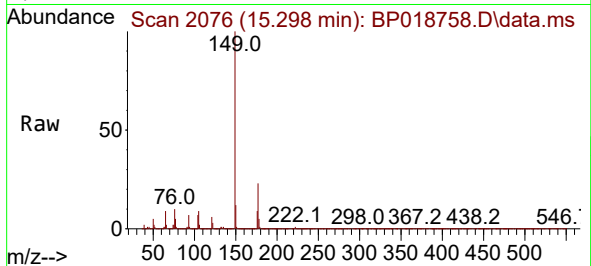




#59
Diethylphthalate
Concen: 35.785 ng/ul
RT: 15.298 min Scan# 2076
Delta R.T. 0.000 min
Lab File: BP018758.D
Acq: 12 Dec 2023 09:32

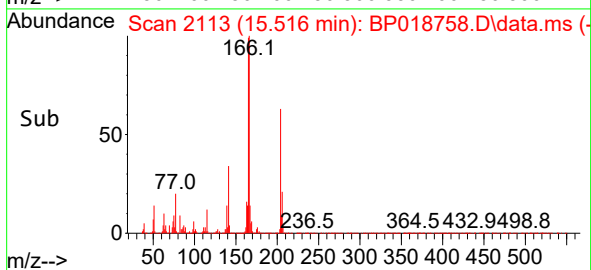
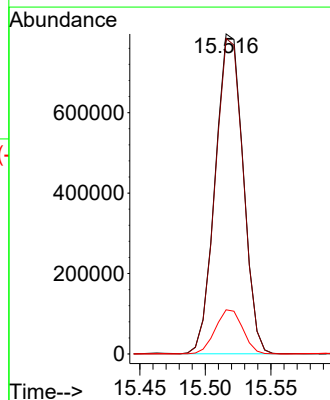
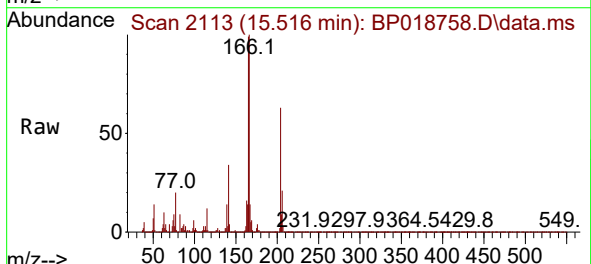
Instrument :
BNA_P
ClientSampleId :

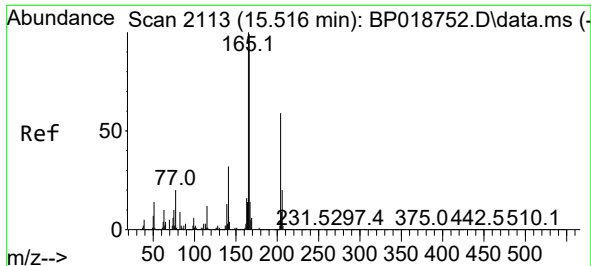
Tgt Ion:149 Resp: 1314713
Ion Ratio Lower Upper
149 100
177 22.6 18.2 27.4
150 12.2 9.9 14.9



#61
Fluorene
Concen: 34.260 ng/ul
RT: 15.516 min Scan# 2113
Delta R.T. -0.006 min
Lab File: BP018758.D
Acq: 12 Dec 2023 09:32

Tgt Ion:166 Resp: 1176345
Ion Ratio Lower Upper
166 100
165 98.6 78.0 117.0
167 13.8 10.8 16.2

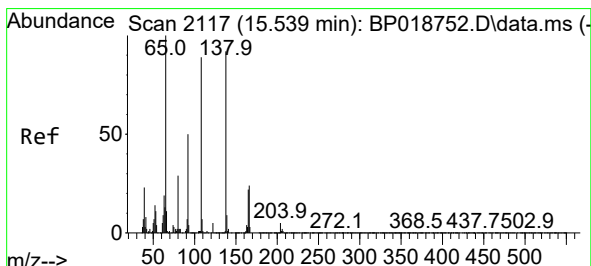
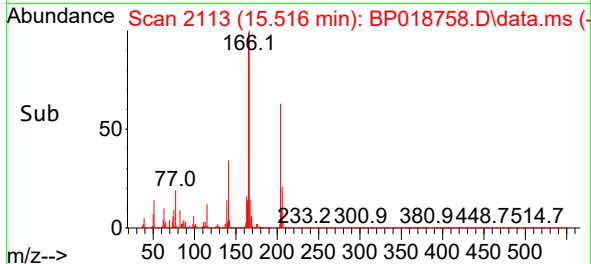
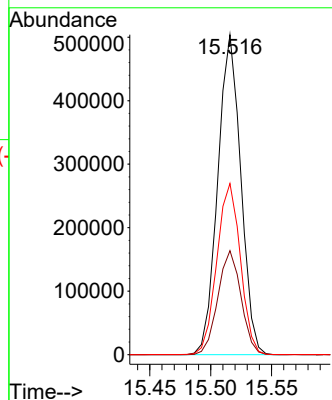
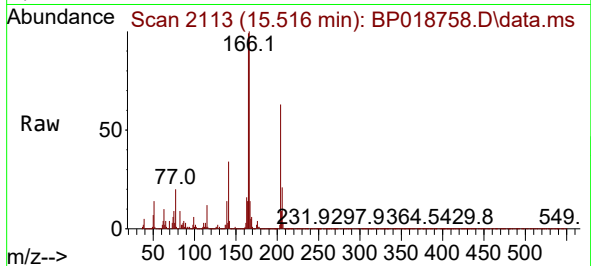




#62
4-Chlorophenyl-phenylether
Concen: 36.837 ng/ul
RT: 15.516 min Scan# 2113
Delta R.T. 0.000 min
Lab File: BP018758.D
Acq: 12 Dec 2023 09:32

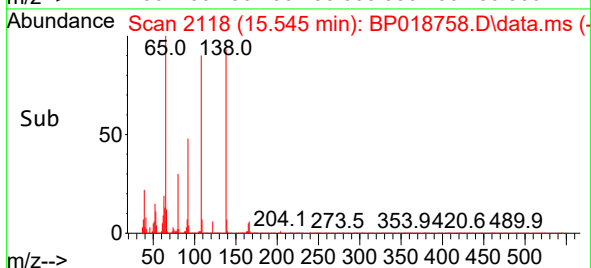
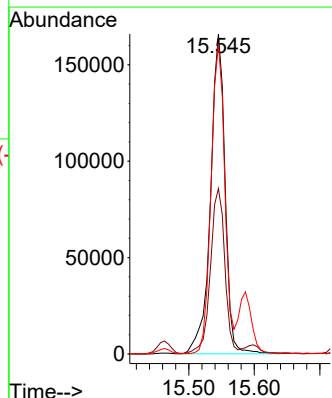
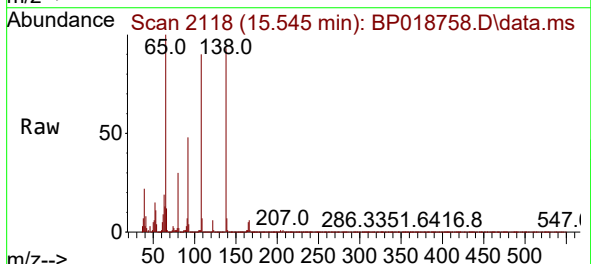
Instrument :
BNA_P
ClientSampleId :

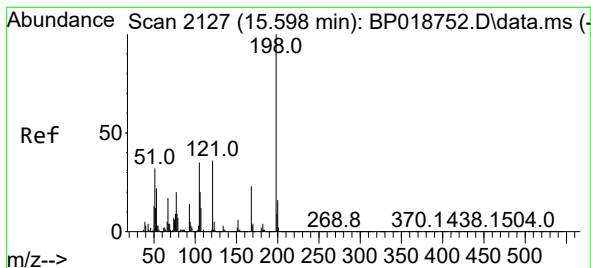
Tgt Ion:204 Resp: 663354
Ion Ratio Lower Upper
204 100
206 32.5 27.1 40.7
141 53.5 45.8 68.8



#63
4-Nitroaniline
Concen: 38.172 ng/ul
RT: 15.545 min Scan# 2118
Delta R.T. 0.000 min
Lab File: BP018758.D
Acq: 12 Dec 2023 09:32

Tgt Ion:138 Resp: 257490
Ion Ratio Lower Upper
138 100
92 51.7 42.3 63.5
108 96.8 62.0 93.0#

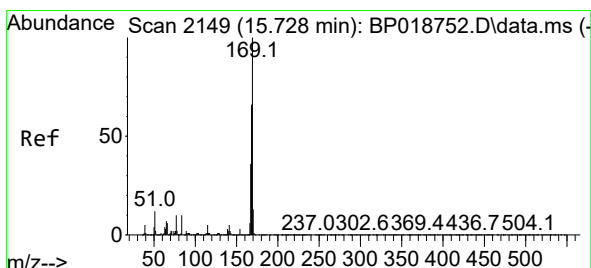
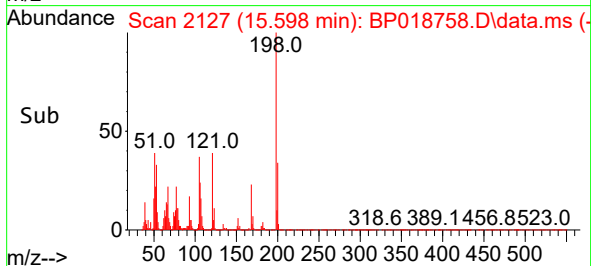
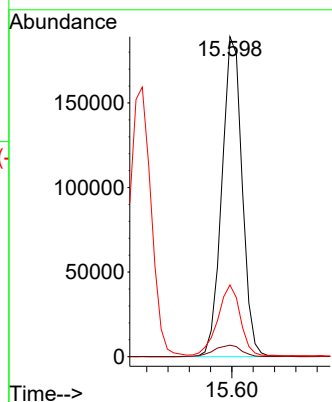
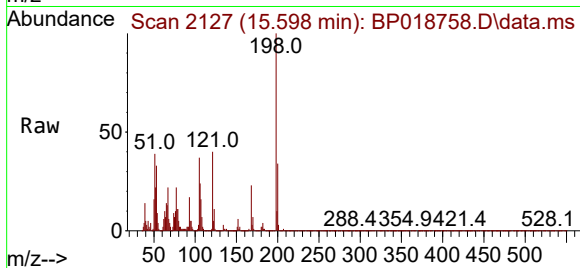




#66
4,6-Dinitro-2-methylphenol
Concen: 38.728 ng/ul
RT: 15.598 min Scan# 2127
Delta R.T. 0.000 min
Lab File: BP018758.D
Acq: 12 Dec 2023 09:32

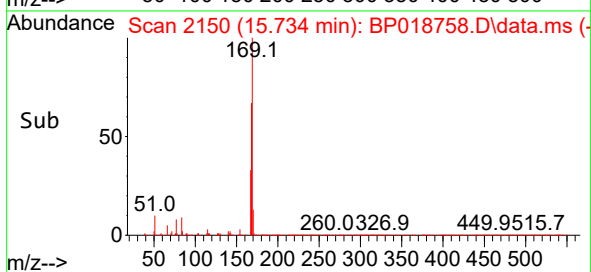
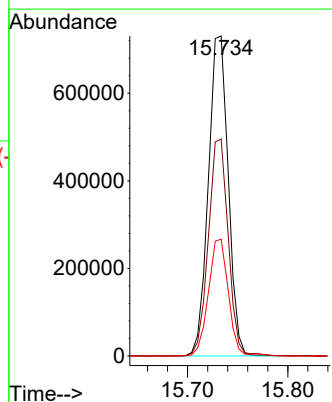
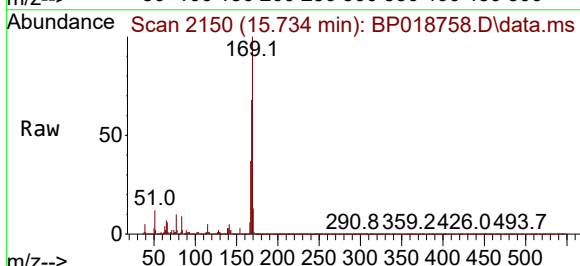
Instrument :
BNA_P
ClientSampleId :

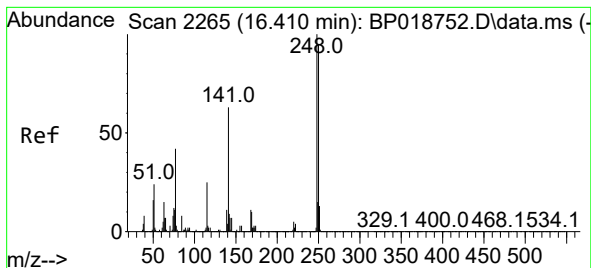
Tgt Ion:198 Resp: 248928
Ion Ratio Lower Upper
198 100
182 3.6 3.4 5.2
77 22.4 20.6 30.8



#67
N-Nitrosodiphenylamine
Concen: 30.353 ng/ul
RT: 15.734 min Scan# 2150
Delta R.T. 0.000 min
Lab File: BP018758.D
Acq: 12 Dec 2023 09:32

Tgt Ion:169 Resp: 1008488
Ion Ratio Lower Upper
169 100
168 67.8 53.1 79.7
167 36.5 29.1 43.7

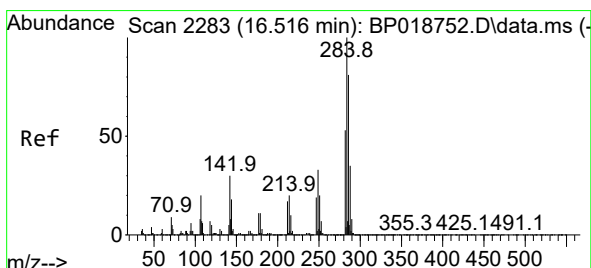
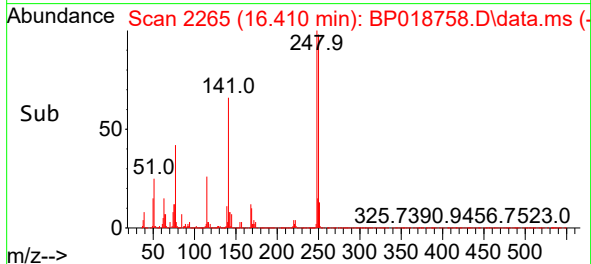
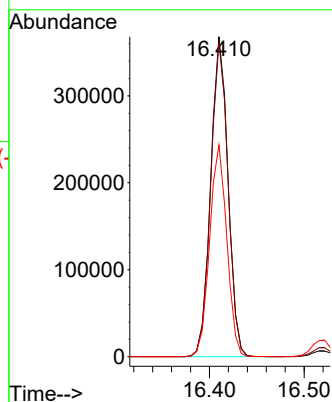
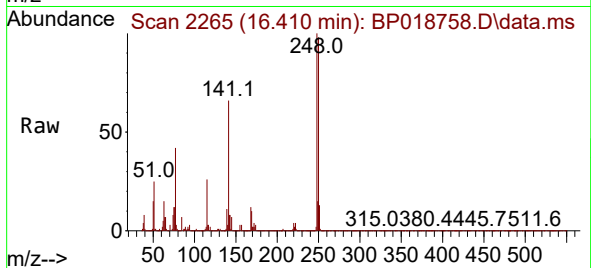




#68
4-Bromophenyl-phenylether
Concen: 36.838 ng/ul
RT: 16.410 min Scan# 2265
Delta R.T. -0.006 min
Lab File: BP018758.D
Acq: 12 Dec 2023 09:32

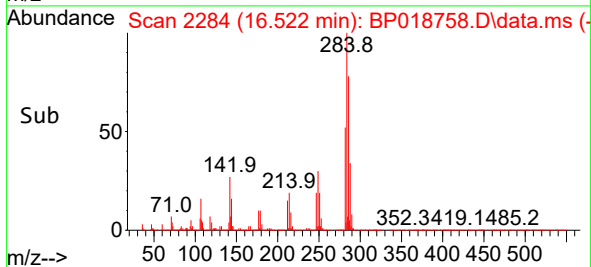
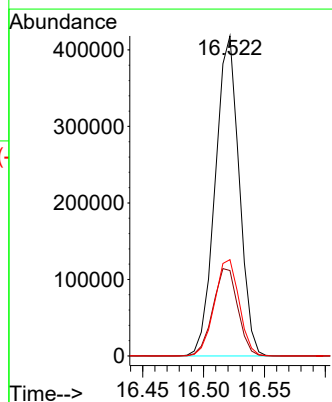
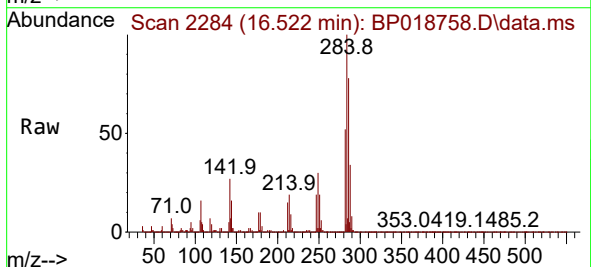
Instrument :
BNA_P
ClientSampleId :

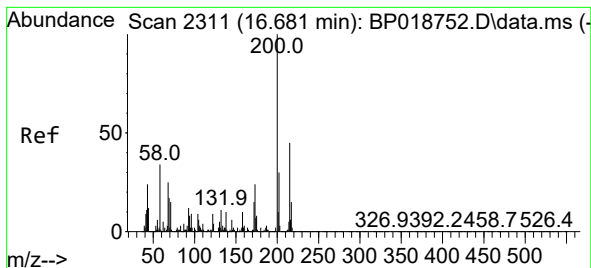
Tgt Ion:248 Resp: 466299
Ion Ratio Lower Upper
248 100
250 98.3 79.3 118.9
141 66.1 57.2 85.8



#69
Hexachlorobenzene
Concen: 40.428 ng/ul
RT: 16.522 min Scan# 2284
Delta R.T. 0.000 min
Lab File: BP018758.D
Acq: 12 Dec 2023 09:32

Tgt Ion:284 Resp: 571359
Ion Ratio Lower Upper
284 100
142 26.7 25.8 38.6
249 30.1 24.9 37.3





#70

Atrazine

Concen: 22.251 ng/ul

RT: 16.686 min Scan# 219792

Delta R.T. 0.000 min

Lab File: BP018758.D

Acq: 12 Dec 2023 09:32

Instrument :

BNA_P

ClientSampleId :

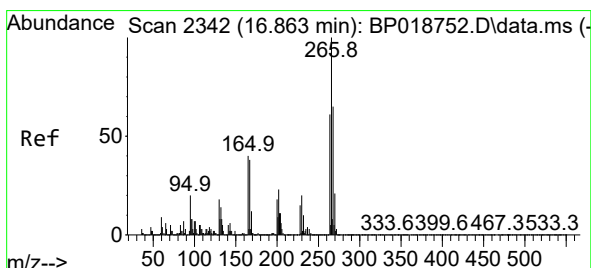
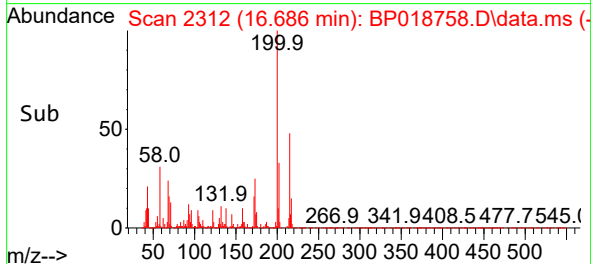
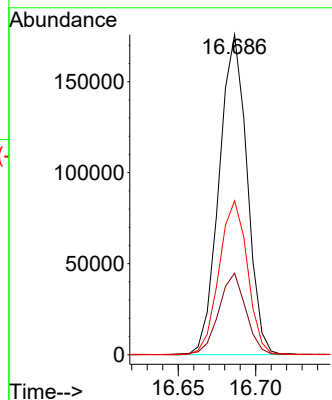
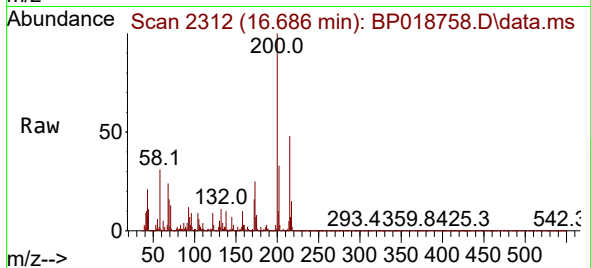
Tgt Ion:200 Resp: 219792

Ion Ratio Lower Upper

200 100

173 25.5 21.0 31.4

215 48.1 38.2 57.2



#71

Pentachlorophenol

Concen: 40.995 ng/ul

RT: 16.869 min Scan# 2343

Delta R.T. 0.000 min

Lab File: BP018758.D

Acq: 12 Dec 2023 09:32

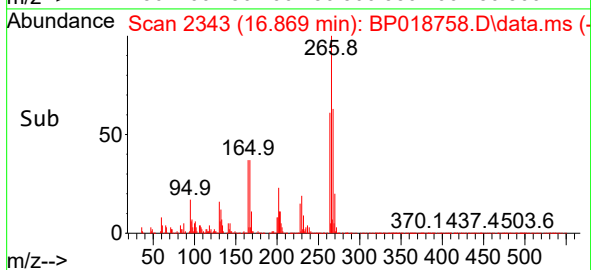
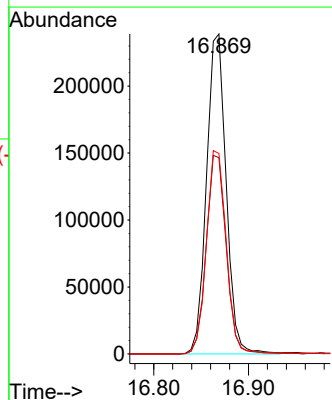
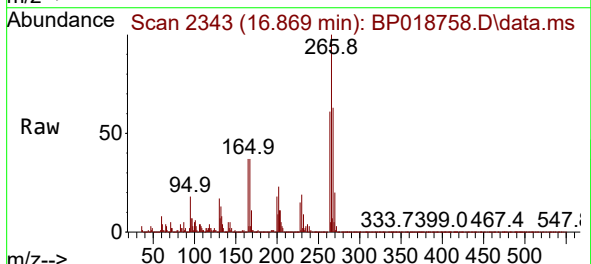
Tgt Ion:266 Resp: 344572

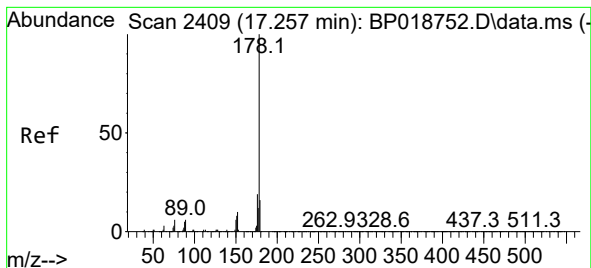
Ion Ratio Lower Upper

266 100

264 61.4 50.2 75.2

268 62.6 50.5 75.7





#72

Phenanthrene

Concen: 33.898 ng/ul

RT: 17.263 min Scan# 2410

Delta R.T. 0.000 min

Lab File: BP018758.D

Acq: 12 Dec 2023 09:32

Instrument :

BNA_P

ClientSampleId :

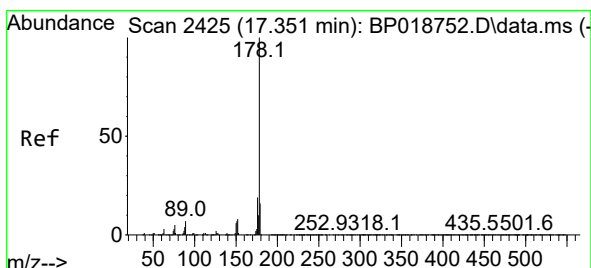
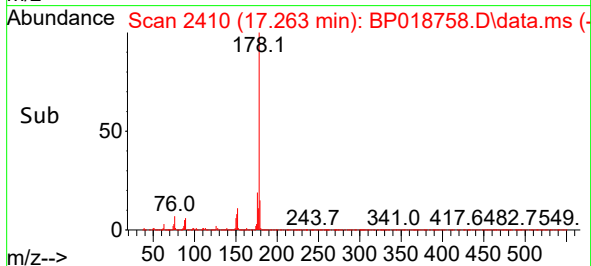
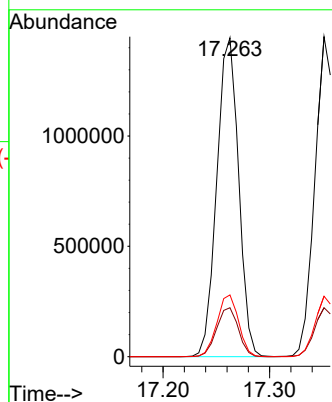
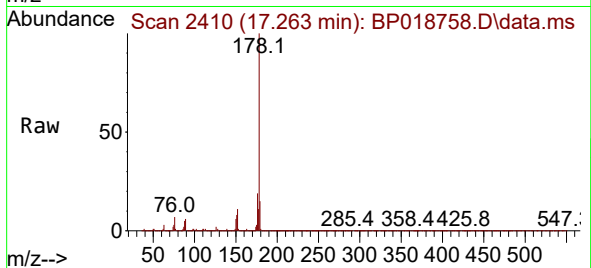
Tgt Ion:178 Resp: 2052750

Ion Ratio Lower Upper

178 100

179 15.4 12.3 18.5

176 19.4 15.4 23.2



#74

Anthracene

Concen: 32.949 ng/ul

RT: 17.351 min Scan# 2425

Delta R.T. -0.006 min

Lab File: BP018758.D

Acq: 12 Dec 2023 09:32

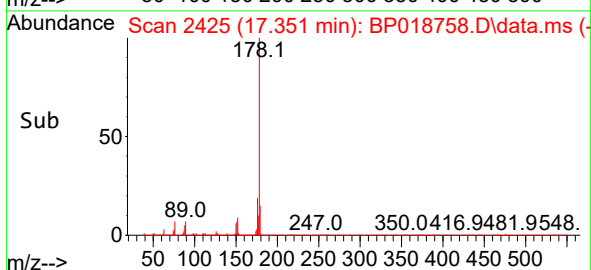
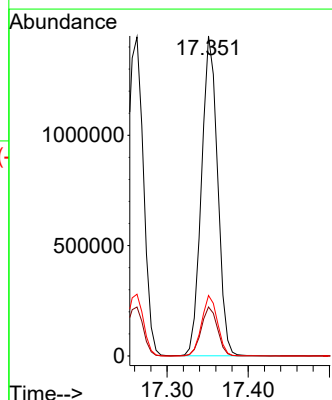
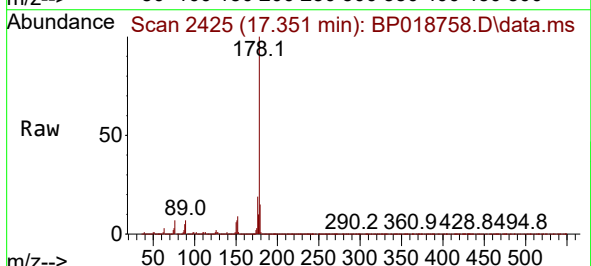
Tgt Ion:178 Resp: 1999961

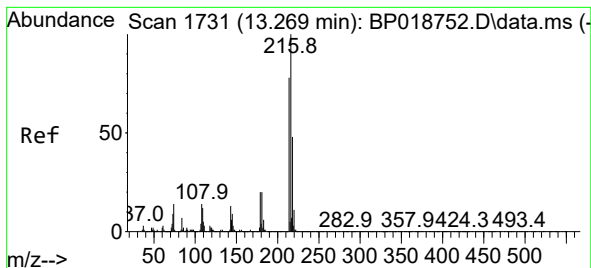
Ion Ratio Lower Upper

178 100

179 15.3 12.5 18.7

176 18.9 15.0 22.6

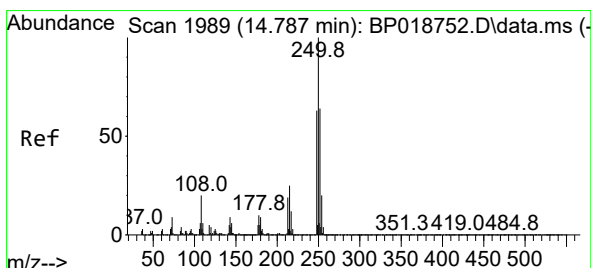
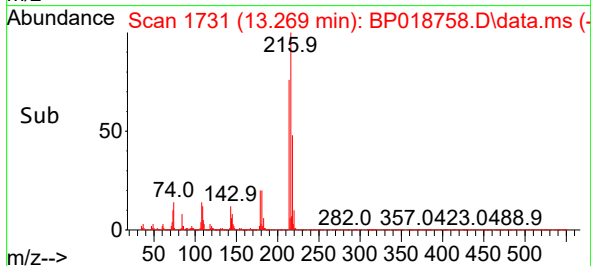
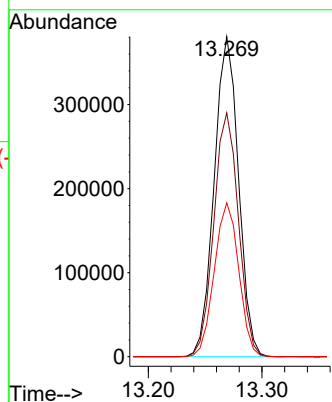
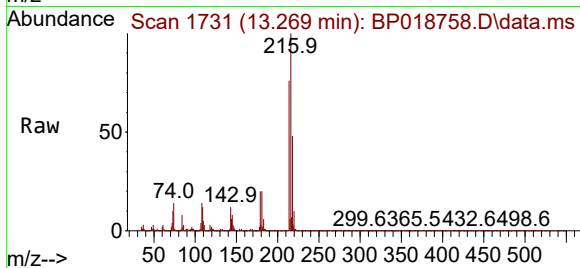




#75
1,2,3,4-Tetrachlorobenzene
Concen: 32.691 ng/uL
RT: 13.269 min Scan# 1731
Delta R.T. 0.000 min
Lab File: BP018758.D
Acq: 12 Dec 2023 09:32

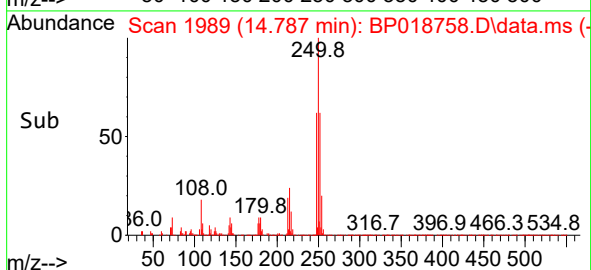
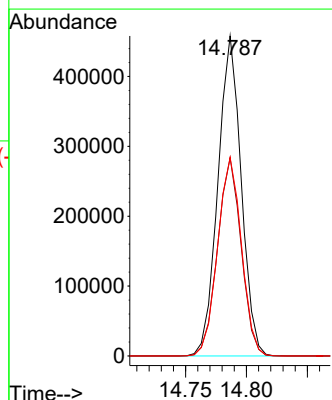
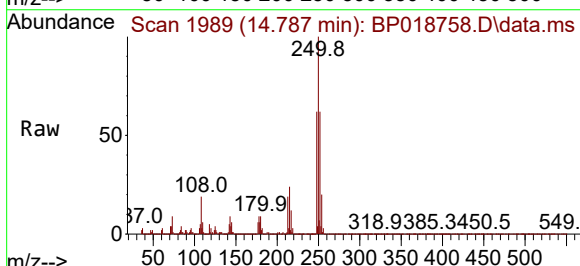
Instrument :
BNA_P
ClientSampleId :

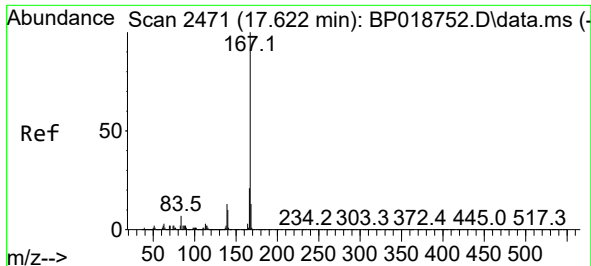
Tgt Ion:216 Resp: 566761
Ion Ratio Lower Upper
216 100
214 76.2 61.4 92.2
218 48.1 39.2 58.8



#76
Pentachlorobenzene
Concen: 35.760 ng/uL
RT: 14.787 min Scan# 1989
Delta R.T. 0.000 min
Lab File: BP018758.D
Acq: 12 Dec 2023 09:32

Tgt Ion:250 Resp: 608985
Ion Ratio Lower Upper
250 100
248 61.9 50.6 75.8
252 62.0 51.3 76.9

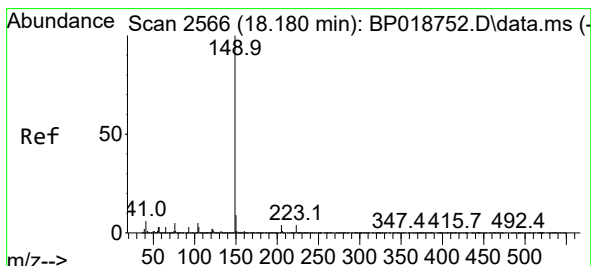
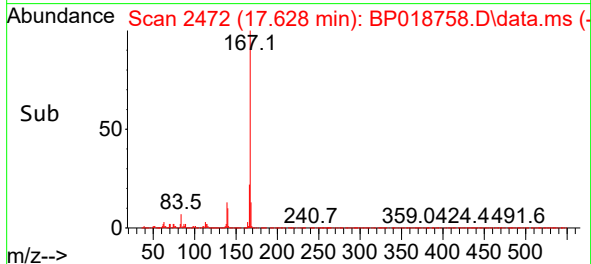
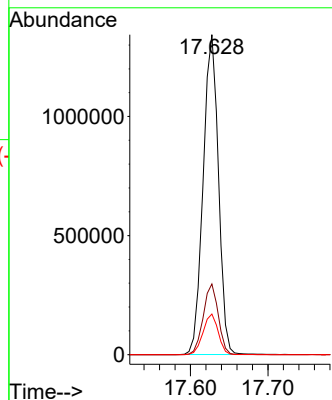
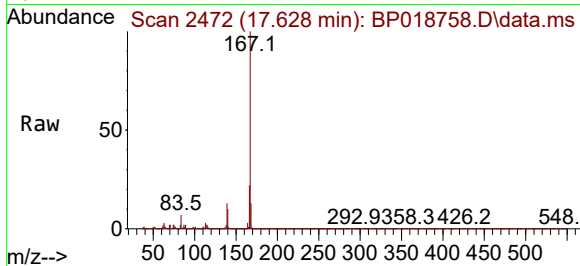




#77
 Carbazole
 Concen: 38.090 ng/ul
 RT: 17.628 min Scan# 2471
 Delta R.T. 0.000 min
 Lab File: BP018758.D
 Acq: 12 Dec 2023 09:32

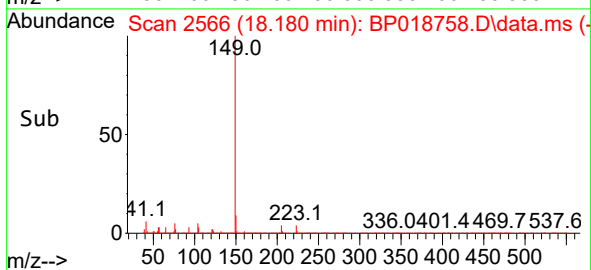
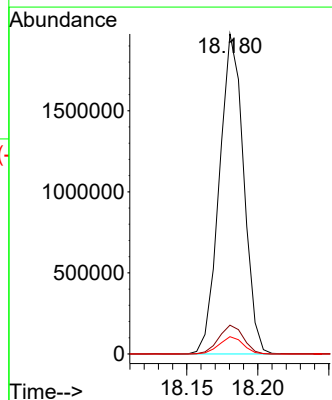
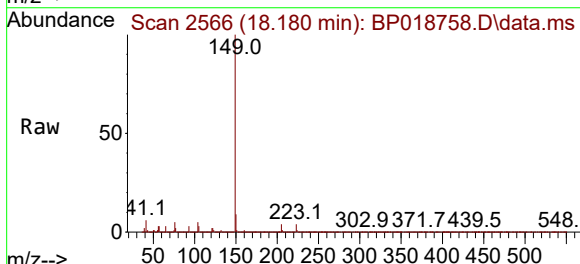
Instrument :
 BNA_P
 ClientSampleId :

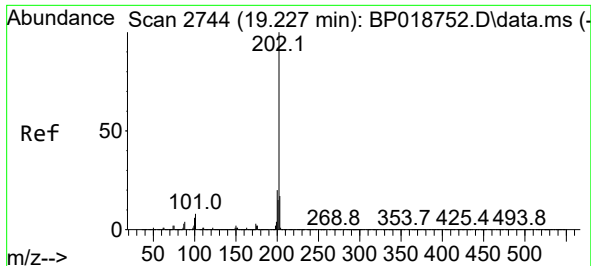
Tgt Ion:167 Resp: 1842675
 Ion Ratio Lower Upper
 167 100
 166 22.1 17.1 25.7
 139 12.7 10.2 15.4



#78
 Di-n-butylphthalate
 Concen: 36.440 ng/ul
 RT: 18.180 min Scan# 2566
 Delta R.T. -0.006 min
 Lab File: BP018758.D
 Acq: 12 Dec 2023 09:32

Tgt Ion:149 Resp: 2347344
 Ion Ratio Lower Upper
 149 100
 150 9.0 7.4 11.2
 104 5.4 3.9 5.9

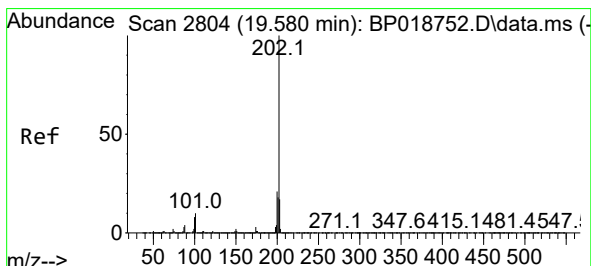
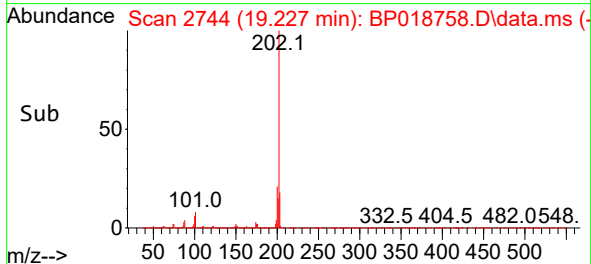
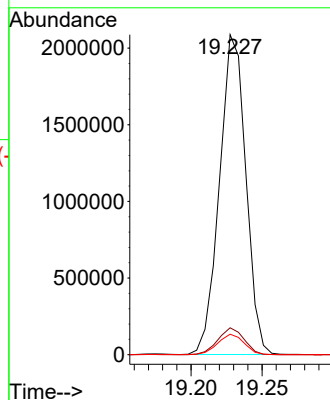
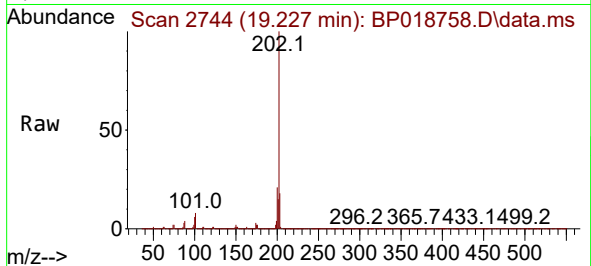




#80
Fluoranthene
Concen: 27.491 ng/ul
RT: 19.227 min Scan# 21
Delta R.T. -0.006 min
Lab File: BP018758.D
Acq: 12 Dec 2023 09:32

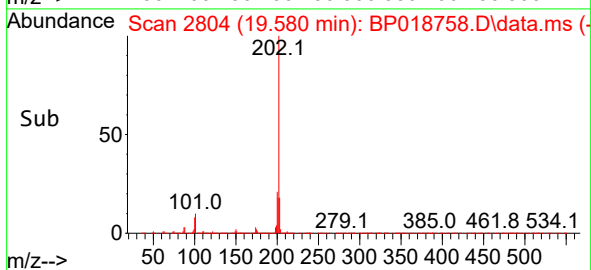
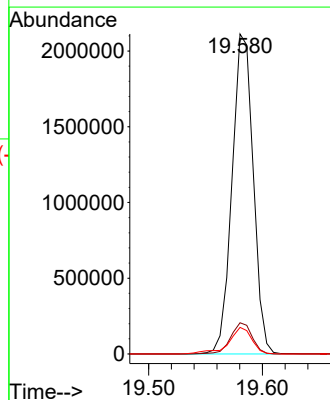
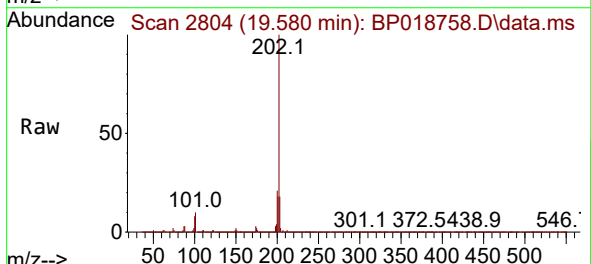
Instrument :
BNA_P
ClientSampleId :

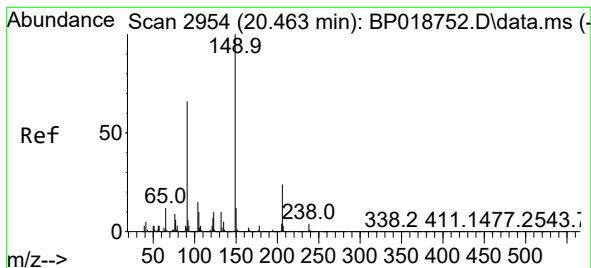
Tgt Ion:202 Resp: 2691961
Ion Ratio Lower Upper
202 100
101 8.4 9.1 13.7#
100 6.4 7.1 10.7#



#82
Pyrene
Concen: 27.675 ng/ul
RT: 19.580 min Scan# 2804
Delta R.T. -0.006 min
Lab File: BP018758.D
Acq: 12 Dec 2023 09:32

Tgt Ion:202 Resp: 2733858
Ion Ratio Lower Upper
202 100
101 9.7 11.0 16.4#
100 8.3 9.1 13.7#





#83

Butylbenzylphthalate

Concen: 30.294 ng/ul

RT: 20.463 min Scan# 2954

Delta R.T. 0.000 min

Lab File: BP018758.D

Acq: 12 Dec 2023 09:32

Instrument :

BNA_P

ClientSampleId :

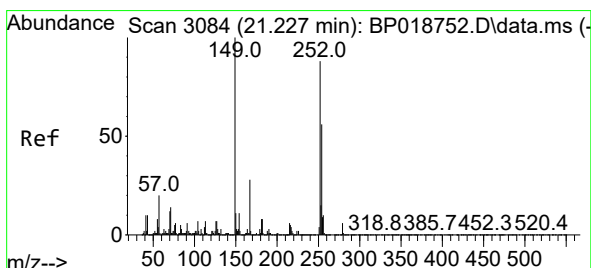
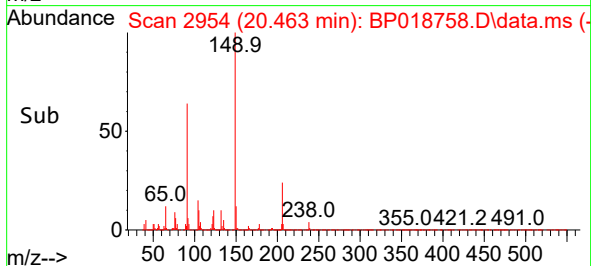
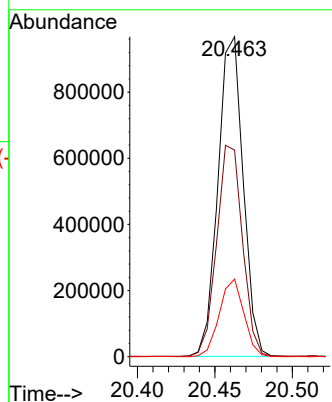
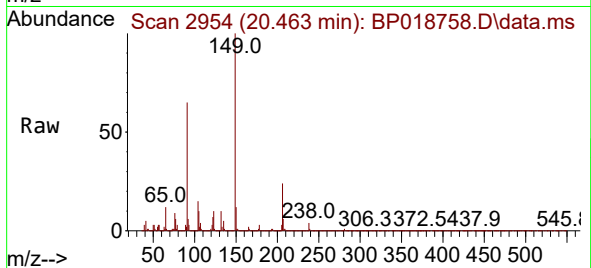
Tgt Ion:149 Resp: 1095530

Ion Ratio Lower Upper

149 100

91 64.5 56.6 85.0

206 24.2 17.4 26.0



#84

3,3'-Dichlorobenzidine

Concen: 25.424 ng/ul

RT: 21.227 min Scan# 3084

Delta R.T. -0.006 min

Lab File: BP018758.D

Acq: 12 Dec 2023 09:32

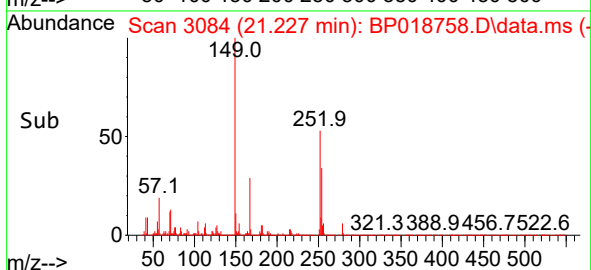
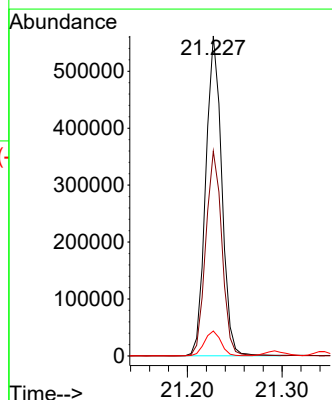
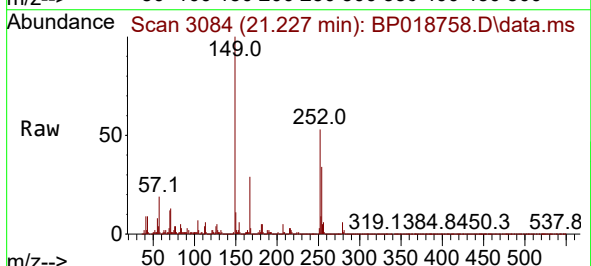
Tgt Ion:252 Resp: 657489

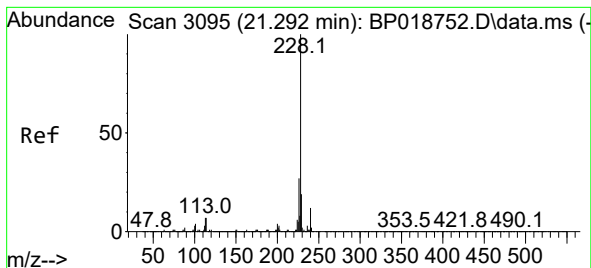
Ion Ratio Lower Upper

252 100

254 64.0 51.0 76.4

126 7.8 7.8 11.6





#85

Benzo(a)anthracene

Concen: 34.282 ng/ul

RT: 21.292 min Scan# 3095

Delta R.T. -0.006 min

Lab File: BP018758.D

Acq: 12 Dec 2023 09:32

Instrument :

BNA_P

ClientSampleId :

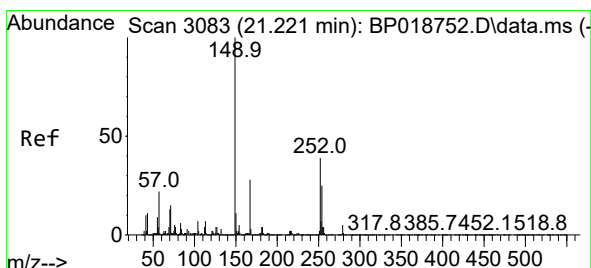
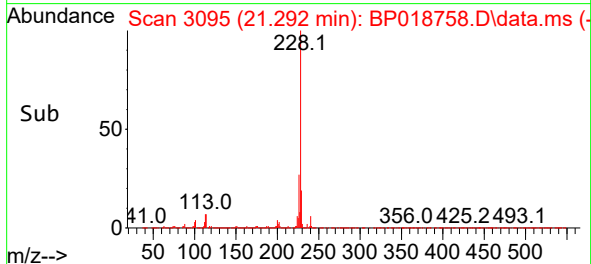
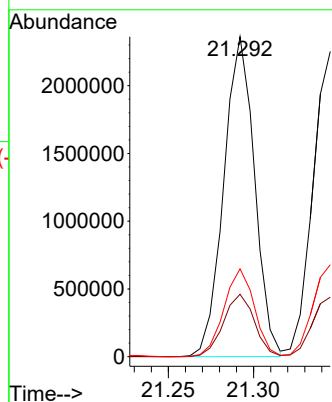
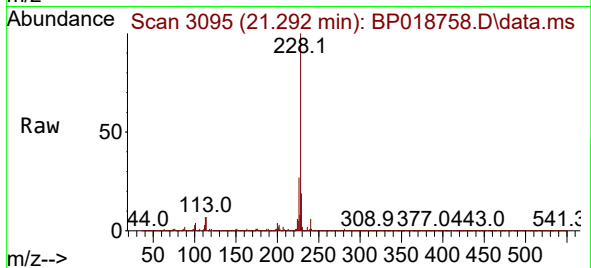
Tgt Ion:228 Resp: 2961230

Ion Ratio Lower Upper

228 100

229 19.5 15.7 23.5

226 27.5 21.9 32.9



#86

Bis(2-ethylhexyl)phthalate

Concen: 32.582 ng/ul

RT: 21.221 min Scan# 3083

Delta R.T. -0.006 min

Lab File: BP018758.D

Acq: 12 Dec 2023 09:32

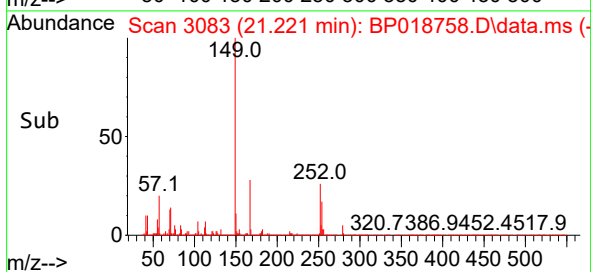
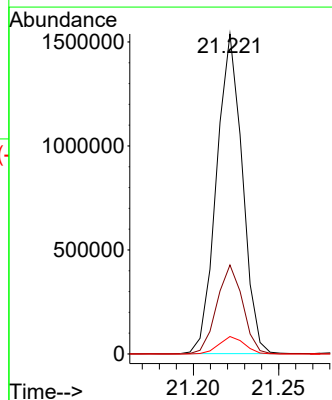
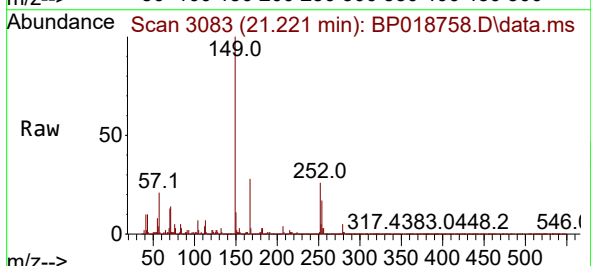
Tgt Ion:149 Resp: 1619515

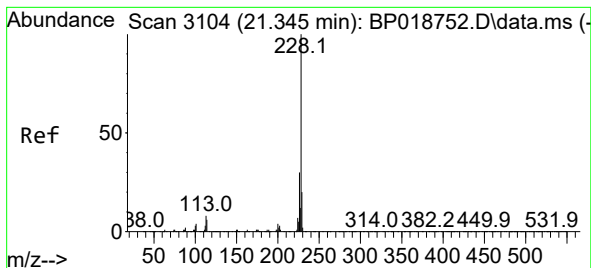
Ion Ratio Lower Upper

149 100

167 27.8 22.2 33.2

279 5.4 3.3 4.9#





#87

Chrysene

Concen: 34.499 ng/ul

RT: 21.345 min Scan# 3104

Delta R.T. -0.006 min

Lab File: BP018758.D

Acq: 12 Dec 2023 09:32

Instrument :

BNA_P

ClientSampleId :

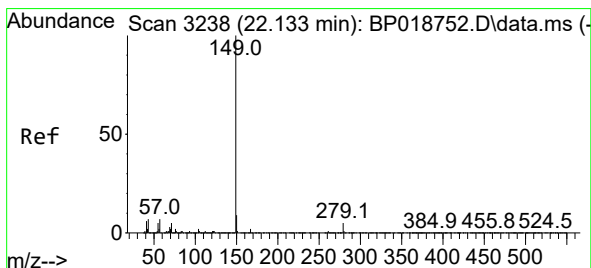
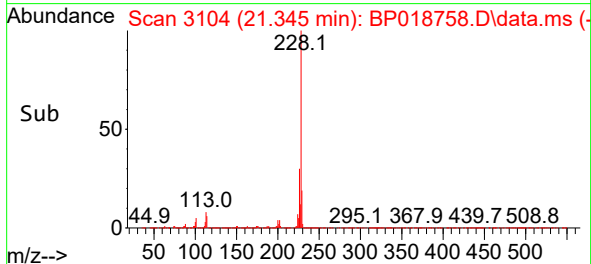
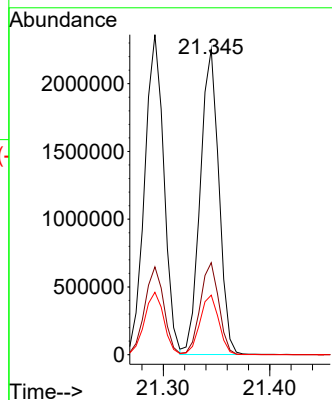
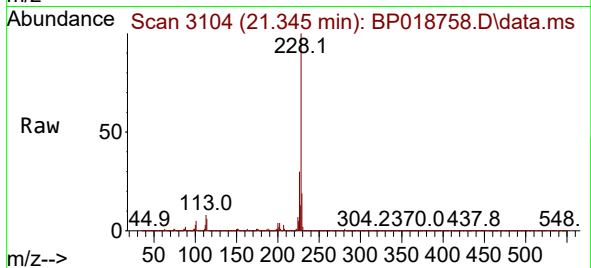
Tgt Ion:228 Resp: 2744256

Ion Ratio Lower Upper

228 100

226 30.1 23.9 35.9

229 19.5 15.6 23.4



#89

Di-n-octyl phthalate

Concen: 32.264 ng/ul

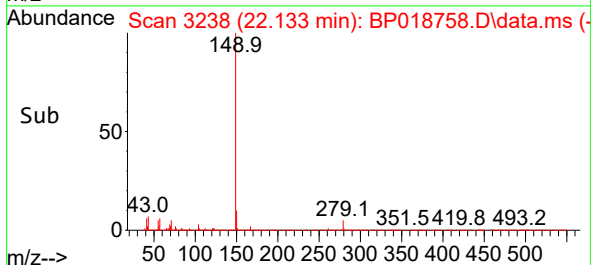
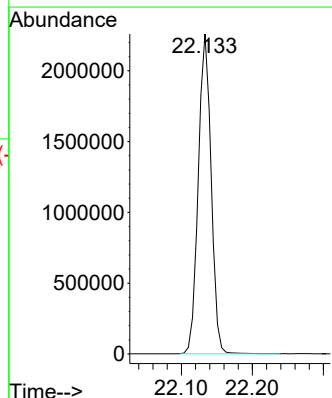
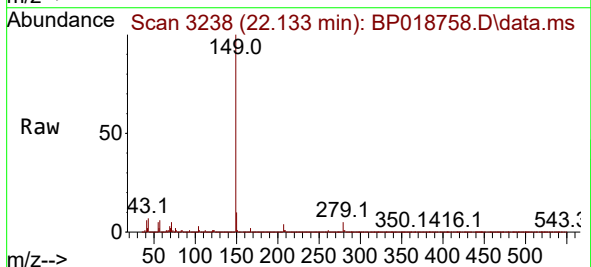
RT: 22.133 min Scan# 3238

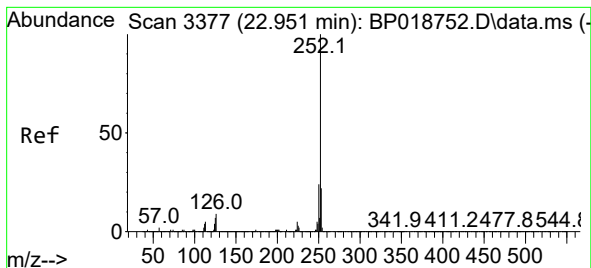
Delta R.T. -0.006 min

Lab File: BP018758.D

Acq: 12 Dec 2023 09:32

Tgt Ion:149 Resp: 2846801





#90

Benzo(b)fluoranthene

Concen: 35.632 ng/ul

RT: 22.951 min Scan# 3377

Delta R.T. -0.006 min

Lab File: BP018758.D

Acq: 12 Dec 2023 09:32

Instrument :

BNA_P

ClientSampleId :

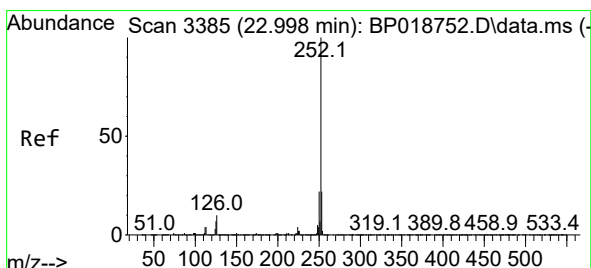
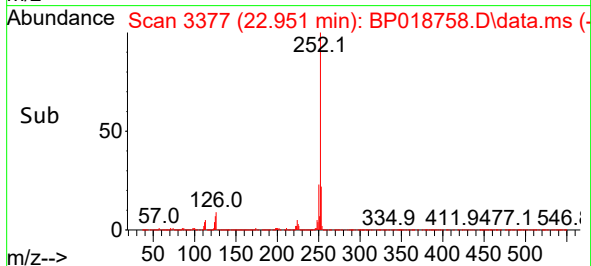
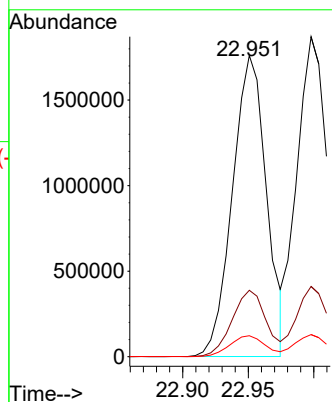
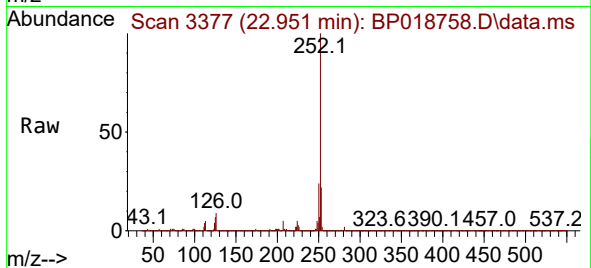
Tgt Ion:252 Resp: 3174893

Ion Ratio Lower Upper

252 100

253 22.1 17.3 25.9

125 7.0 7.8 11.6#



#91

Benzo(k)fluoranthene

Concen: 35.723 ng/ul

RT: 22.998 min Scan# 3385

Delta R.T. -0.006 min

Lab File: BP018758.D

Acq: 12 Dec 2023 09:32

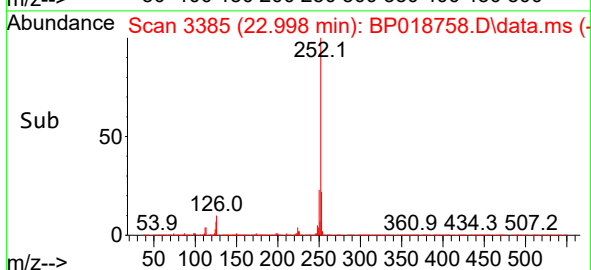
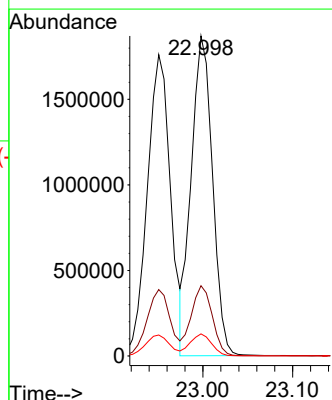
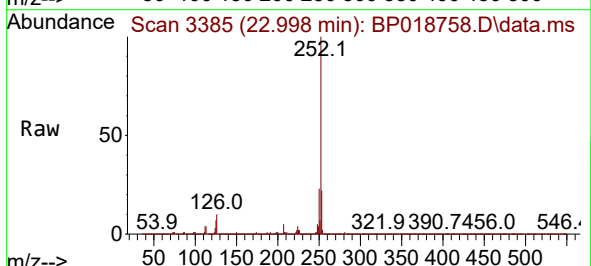
Tgt Ion:252 Resp: 3079824

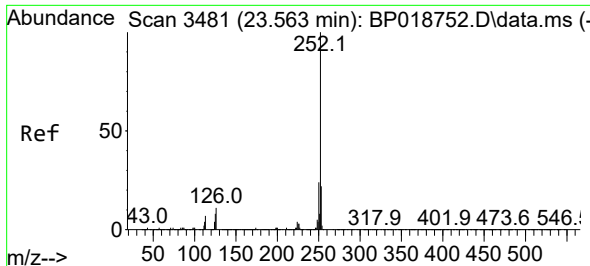
Ion Ratio Lower Upper

252 100

253 22.0 17.7 26.5

125 6.9 8.0 12.0#

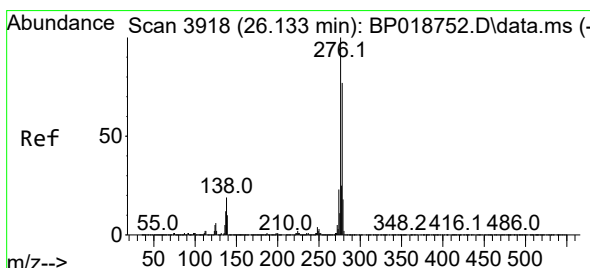
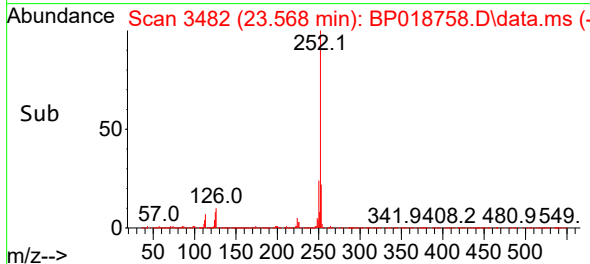
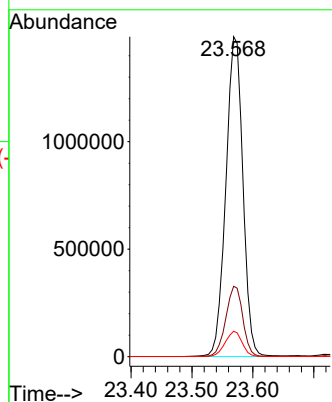
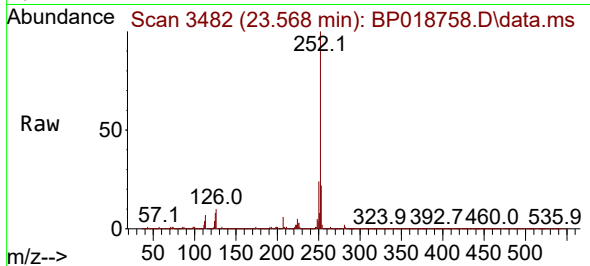




#93
Benzo(a)pyrene
Concen: 35.491 ng/ul
RT: 23.568 min Scan# 3481
Delta R.T. -0.006 min
Lab File: BP018758.D
Acq: 12 Dec 2023 09:32

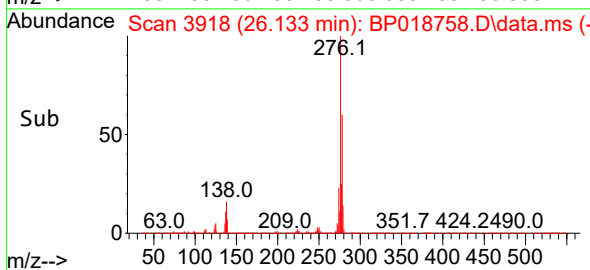
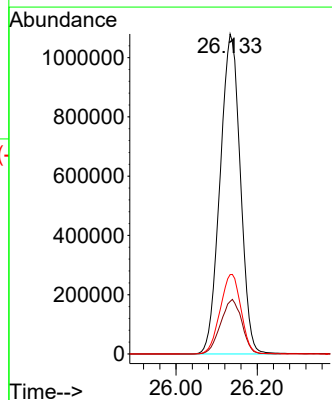
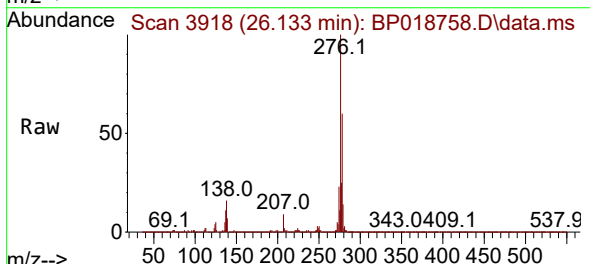
Instrument :
BNA_P
ClientSampleId :

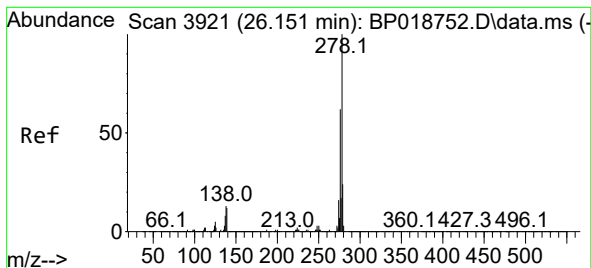
Tgt Ion:252 Resp: 2889533
Ion Ratio Lower Upper
252 100
253 22.0 17.8 26.8
125 7.9 9.2 13.8#



#94
Indeno(1,2,3-cd)pyrene
Concen: 38.508 ng/ul
RT: 26.133 min Scan# 3918
Delta R.T. -0.006 min
Lab File: BP018758.D
Acq: 12 Dec 2023 09:32

Tgt Ion:276 Resp: 3745942
Ion Ratio Lower Upper
276 100
138 16.4 19.4 29.2#
277 24.8 19.8 29.6





#95

Dibenzo(a,h)anthracene

Concen: 38.700 ng/ul

RT: 26.156 min Scan# 3921

Delta R.T. -0.006 min

Lab File: BP018758.D

Acq: 12 Dec 2023 09:32

Instrument :

BNA_P

ClientSampleId :

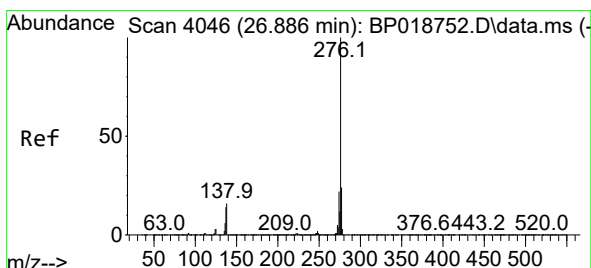
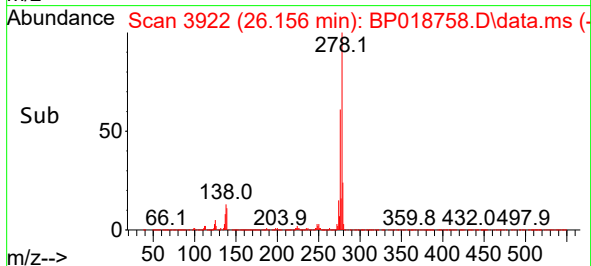
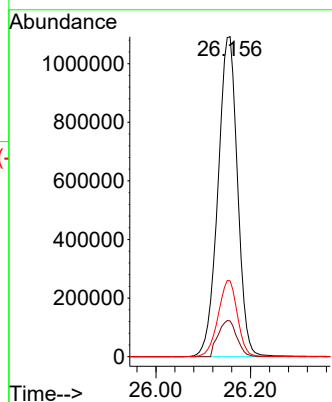
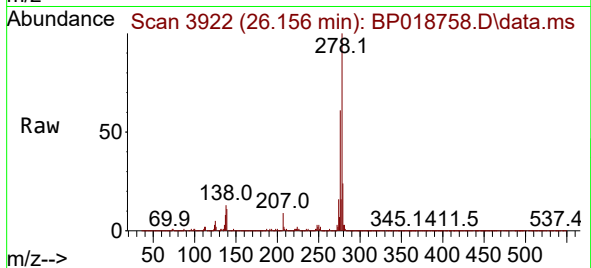
Tgt Ion:278 Resp: 3131597

Ion Ratio Lower Upper

278 100

139 11.1 13.0 19.6#

279 23.7 18.7 28.1



#96

Benzo(g,h,i)perylene

Concen: 38.270 ng/ul

RT: 26.886 min Scan# 4046

Delta R.T. -0.018 min

Lab File: BP018758.D

Acq: 12 Dec 2023 09:32

Tgt Ion:276 Resp: 2995949

Ion Ratio Lower Upper

276 100

138 15.6 18.1 27.1#

277 24.1 19.4 29.0

