

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP092523\
 Data File : BP017374.D
 Acq On : 26 Sep 2023 22:08
 Operator : MA/JU
 Sample : 04450-19
 Misc :
 ALS Vial : 66 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 BBHR2MSD

Quant Time: Sep 27 00:31:21 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\SFAM-EPA-BP092023.MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Tue Sep 26 04:52:29 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.922	152	136108	20.000	ng/u1	0.00
20) Naphthalene-d8	10.746	136	596141	20.000	ng/u1	0.00
38) Acenaphthene-d10	14.581	164	361919	20.000	ng/u1	0.00
64) Phenanthrene-d10	17.357	188	787728	20.000	ng/u1	0.00
79) Chrysene-d12	21.457	240	753322	20.000	ng/u1	0.00
88) Perylene-d12	23.968	264	812453	20.000	ng/u1	0.00
System Monitoring Compounds						
3) 1,4-Dioxane-d8	3.293	96	17963	5.421	ng/uL	0.00
4) Pyridine-d5	3.728	84	154158	16.641	ng/u1	0.00
7) Phenol-d5	7.081	99	126265	11.295	ng/u1	0.00
9) Bis-(2-Chloroethyl)eth...	7.263	67	315711	46.799	ng/u1	0.00
11) 2-Chlorophenol-d4	7.446	132	332319	37.482	ng/u1	0.00
15) 4-Methylphenol-d8	8.640	113	219308	25.235	ng/u1	0.00
21) Nitrobenzene-d5	9.122	128	203202	47.149	ng/u1	0.00
24) 2-Nitrophenol-d4	9.834	143	217933	46.571	ng/u1	0.00
28) 2,4-Dichlorophenol-d3	10.363	165	389011	44.000	ng/u1	0.00
31) 4-Chloroaniline-d4	10.910	131	475309	37.113	ng/u1	0.00
46) Dimethylphthalate-d6	13.998	166	1384712	53.409	ng/u1	0.00
49) Acenaphthylene-d8	14.287	160	1429041	47.924	ng/u1	0.00
54) 4-Nitrophenol-d4	14.816	143	49899	11.047	ng/u1	0.00
60) Fluorene-d10	15.581	176	1146011	51.343	ng/u1	0.00
65) 4,6-Dinitro-2-methylph...	15.716	200	213924	48.183	ng/u1	0.00
73) Anthracene-d10	17.457	188	1839232	52.645	ng/u1	0.00
81) Pyrene-d10	19.698	212	2241088	55.013	ng/u1	0.00
92) Benzo(a)pyrene-d12	23.804	264	2158629	55.184	ng/u1	0.00
Target Compounds						
					Qvalue	
2) 1,4-Dioxane	3.334	88	26006	7.663	ng/uL	98
5) Pyridine	3.752	79	151541	15.757	ng/u1	99
6) Benzaldehyde	7.081	77	307532	53.909	ng/u1	98
8) Phenol	7.110	94	133679	11.890	ng/u1	98
10) Bis(2-Chloroethyl)ether	7.363	93	412506	45.388	ng/u1	96
12) 2-Chlorophenol	7.475	128	330327	36.688	ng/u1	99
13) 2-Methylphenol	8.369	108	242802	29.184	ng/u1	96
14) 2,2'-oxybis(1-Chloropr...	8.434	45	330173	28.725	ng/u1	100
16) Acetophenone	8.775	105	637231	47.449	ng/u1	98
17) N-Nitroso-di-n-propyla...	8.740	70	325077	48.502	ng/u1	98
18) 4-Methylphenol	8.704	108	228866	25.674	ng/u1	98
19) Hexachloroethane	8.987	117	150927	40.380	ng/u1	96
22) Nitrobenzene	9.163	77	506958	46.358	ng/u1	96
23) Isophorone	9.675	82	909598	46.417	ng/u1	98
25) 2-Nitrophenol	9.869	139	229685	45.295	ng/u1	99
26) 2,4-Dimethylphenol	9.910	107	263134	26.044	ng/u1	99
27) Bis(2-Chloroethoxy)met...	10.163	93	563100	44.514	ng/u1	98
29) 2,4-Dichlorophenol	10.387	162	370921	42.552	ng/u1	98
30) Naphthalene	10.798	128	1321110	42.561	ng/u1	100
32) 4-Chloroaniline	10.934	127	445099	36.267	ng/u1	99
33) Hexachlorobutadiene	11.022	225	261946	43.178	ng/u1	99
34) Caprolactam	11.763	113	16818	6.677	ng/u1	97
35) 4-Chloro-3-methylphenol	12.034	107	368234	42.028	ng/u1	99
36) 2-Methylnaphthalene	12.404	142	908569	44.847	ng/u1	98

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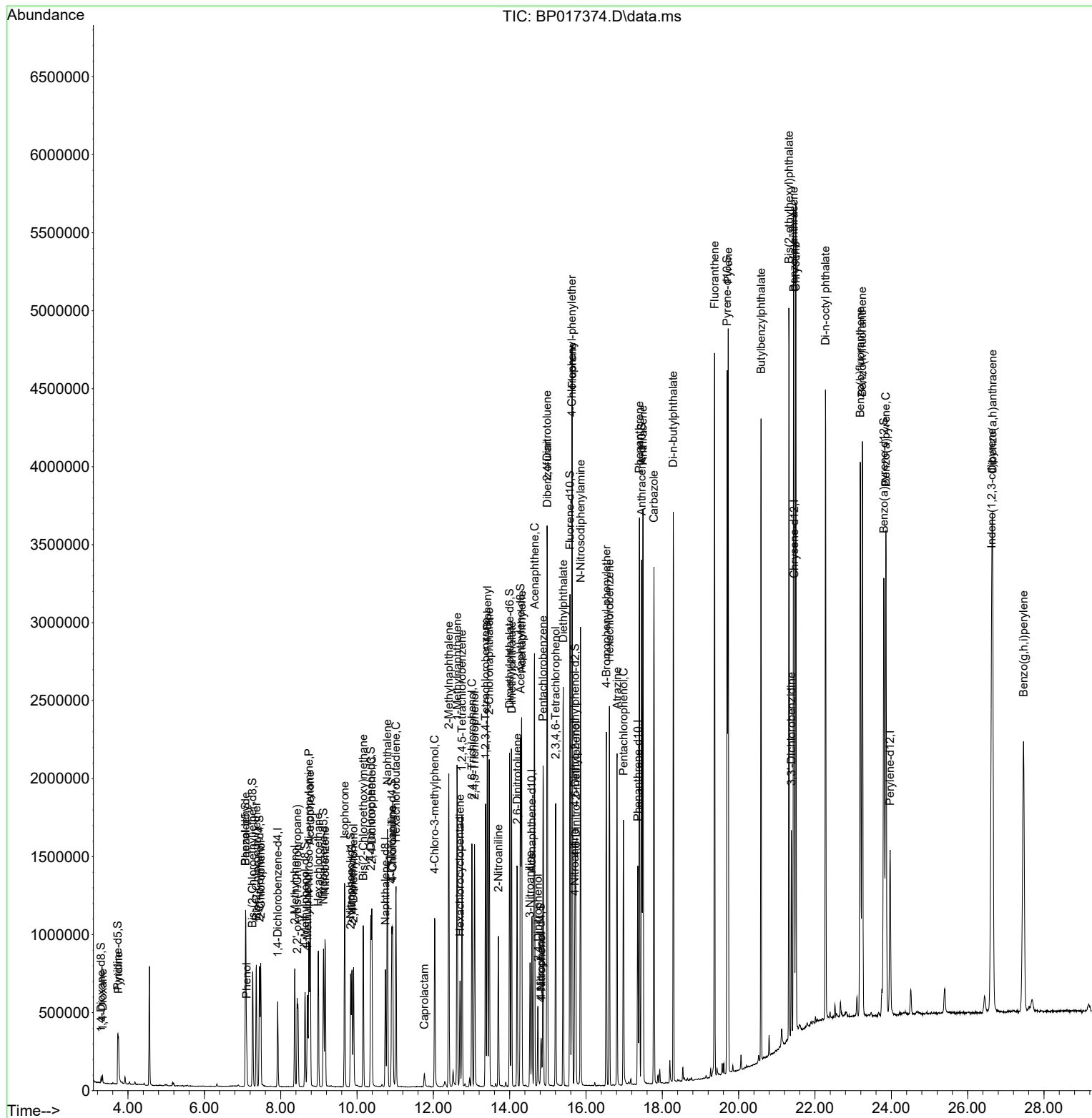
Instrument :
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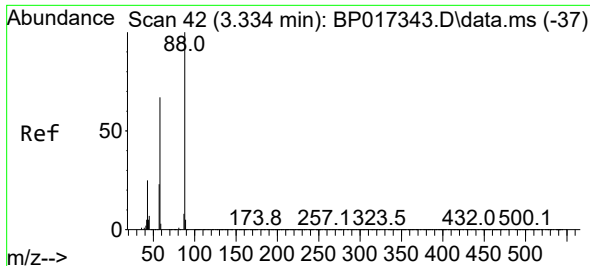
Quant Time: Sep 27 00:31:21 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\SFAM-EPA-BP092023.MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Tue Sep 26 04:52:29 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 1-Methylnaphthalene	12.622	142	894478	43.191	ng/ul	99
39) 1,2,4,5-Tetrachloroben...	12.751	216	507492	43.694	ng/ul	99
40) Hexachlorocyclopentadiene	12.698	237	174494	26.547	ng/ul	94
41) 2,4,6-Trichlorophenol	13.010	196	342394	48.599	ng/ul	99
42) 2,4,5-Trichlorophenol	13.081	196	370061	50.136	ng/ul	97
43) 1,1'-Biphenyl	13.416	154	1212116	44.143	ng/ul	99
44) 2-Chloronaphthalene	13.463	162	968298	44.479	ng/ul	99
45) 2-Nitroaniline	13.704	65	243314	45.498	ng/ul	97
47) Dimethylphthalate	14.051	163	1355581	51.905	ng/ul	98
48) 2,6-Dinitrotoluene	14.198	165	270554	59.643	ng/ul	91
50) Acenaphthylene	14.316	152	1608348	46.126	ng/ul	100
51) 3-Nitroaniline	14.534	138	181116	37.101	ng/ul	97
52) Acenaphthene	14.651	153	1066755	46.324	ng/ul	99
53) 2,4-Dinitrophenol	14.739	184	103962	36.638	ng/ul	98
55) 4-Nitrophenol	14.834	109	42866	12.148	ng/ul	89
56) Dibenzofuran	14.986	168	1517157	48.109	ng/ul	98
57) 2,4-Dinitrotoluene	14.981	165	398258	59.603	ng/ul	98
58) 2,3,4,6-Tetrachlorophenol	15.204	232	330132	52.711	ng/ul	97
59) Diethylphthalate	15.404	149	1380794	54.689	ng/ul	98
61) Fluorene	15.639	166	1287320	50.242	ng/ul	98
62) 4-Chlorophenyl-phenyle...	15.628	204	659903	50.818	ng/ul	99
63) 4-Nitroaniline	15.704	138	127697	29.309	ng/ul	94
66) 4,6-Dinitro-2-methylph...	15.734	198	222419	46.439	ng/ul#	97
67) N-Nitrosodiphenylamine	15.857	169	1040982	48.044	ng/ul	99
68) 4-Bromophenyl-phenylether	16.533	248	417008	52.694	ng/ul	99
69) Hexachlorobenzene	16.616	284	487463	53.083	ng/ul	97
70) Atrazine	16.816	200	384734	49.561	ng/ul	100
71) Pentachlorophenol	16.981	266	274003	48.304	ng/ul	99
72) Phenanthrene	17.398	178	2111069	51.167	ng/ul	99
74) Anthracene	17.492	178	2109441	50.447	ng/ul	100
75) 1,2,3,4-Tetrachloroben...	13.369	216	512385	42.382	ng/uL	97
76) Pentachlorobenzene	14.875	250	503103	44.053	ng/uL	99
77) Carbazole	17.780	167	1935658	52.044	ng/ul	99
78) Di-n-butylphthalate	18.286	149	2425776	59.313	ng/ul	99
80) Fluoranthene	19.369	202	2558726	53.857	ng/ul	99
82) Pyrene	19.727	202	2653453	52.538	ng/ul	99
83) Butylbenzylphthalate	20.586	149	1099167	61.380	ng/ul	95
84) 3,3'-Dichlorobenzidine	21.380	252	372914	22.784	ng/ul	100
85) Benzo(a)anthracene	21.445	228	2706727	53.238	ng/ul	99
86) Bis(2-ethylhexyl)phtha...	21.316	149	1628850	62.983	ng/ul	100
87) Chrysene	21.498	228	2532535	52.928	ng/ul	98
89) Di-n-octyl phthalate	22.274	149	2775387	62.102	ng/ul	100
90) Benzo(b)fluoranthene	23.186	252	2657189	55.473	ng/ul	99
91) Benzo(k)fluoranthene	23.239	252	2612292	54.055	ng/ul	100
93) Benzo(a)pyrene	23.857	252	2435387	53.139	ng/ul	99
94) Indeno(1,2,3-cd)pyrene	26.627	276	3009879	52.395	ng/ul	98
95) Dibenzo(a,h)anthracene	26.651	278	2509298	52.444	ng/ul	98
96) Benzo(g,h,i)perylene	27.462	276	2381610	51.410	ng/ul	98

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

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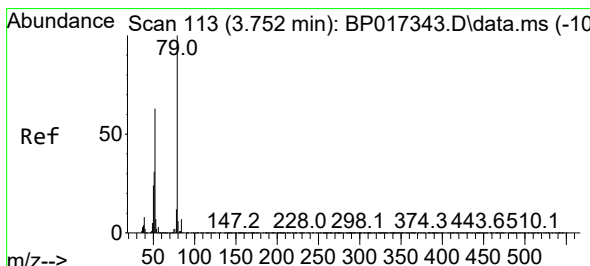
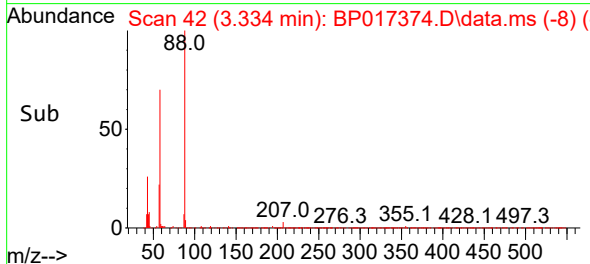
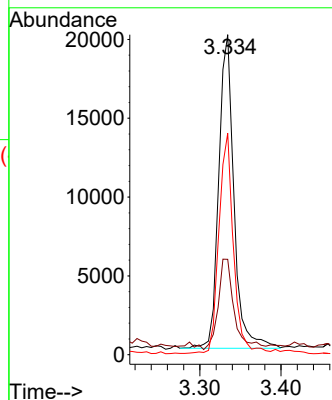
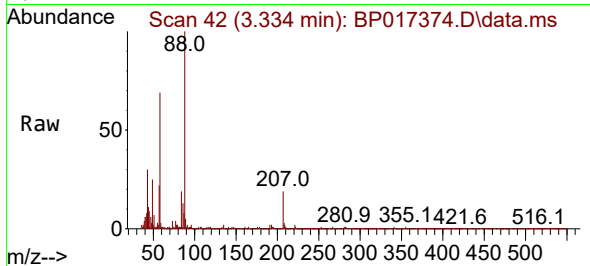




#2
1,4-Dioxane
Concen: 7.663 ng/uL
RT: 3.334 min Scan# 41
Delta R.T. -0.000 min
Lab File: BP017374.D
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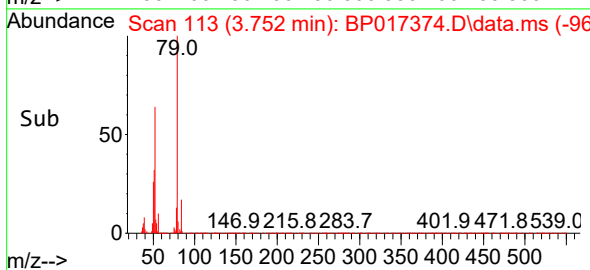
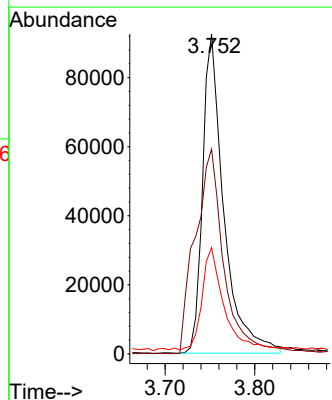
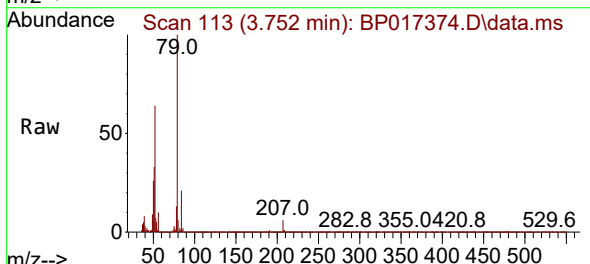
Instrument :
BNA_P
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BBHR2MSD

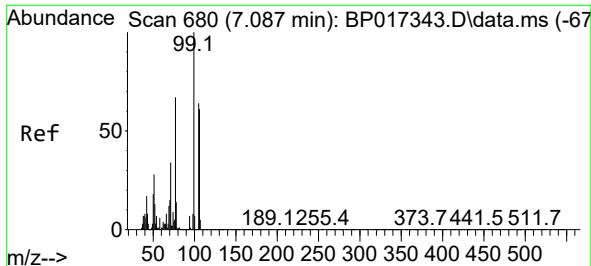
Tgt Ion:	88	Resp:	26006
Ion	Ratio	Lower	Upper
88	100		
43	29.8	25.0	37.4
58	69.2	56.6	84.8



#5
Pyridine
Concen: 15.757 ng/uL
RT: 3.752 min Scan# 113
Delta R.T. -0.000 min
Lab File: BP017374.D
Acq: 26 Sep 2023 22:08

Tgt Ion:	79	Resp:	151541
Ion	Ratio	Lower	Upper
79	100		
52	64.0	51.4	77.2
51	33.2	25.4	38.2

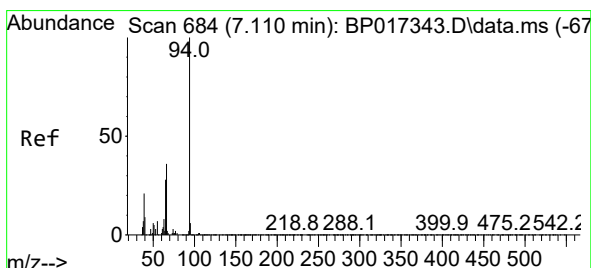
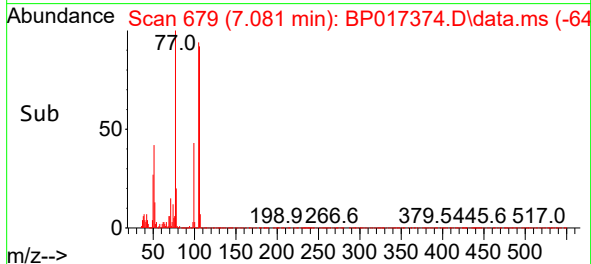
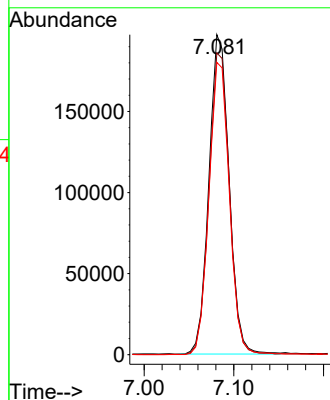
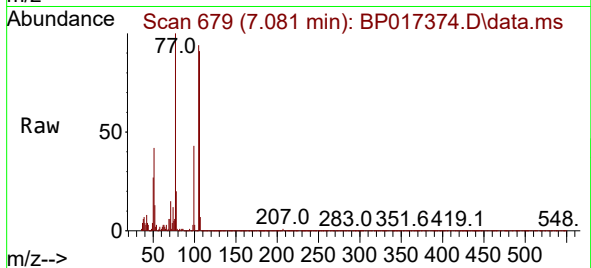




#6
Benzaldehyde
Concen: 53.909 ng/ul
RT: 7.081 min Scan# 61
Delta R.T. -0.006 min
Lab File: BP017374.D
Acq: 26 Sep 2023 22:08

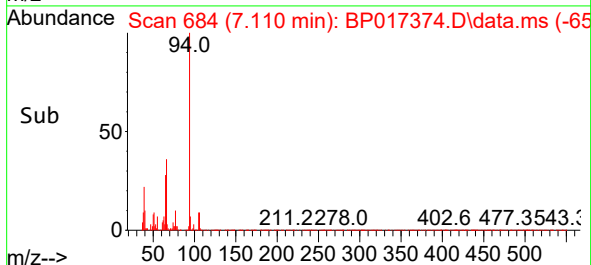
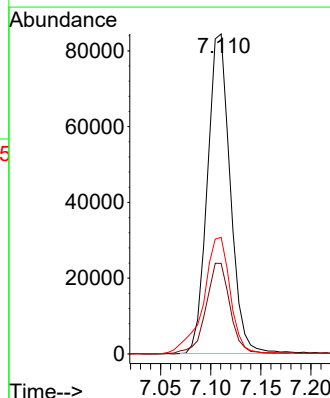
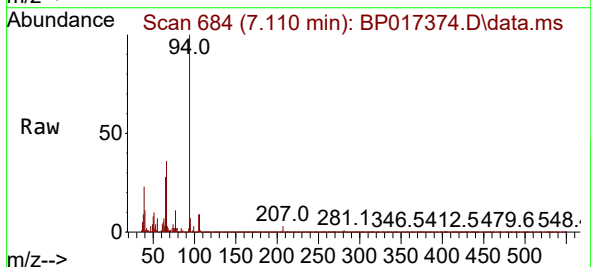
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BNA_P
ClientSampleId :
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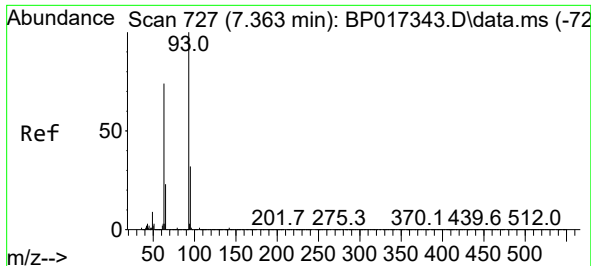
Tgt Ion: 77 Resp: 307532
Ion Ratio Lower Upper
77 100
105 94.3 78.0 117.0
106 91.4 73.2 109.8



#8
Phenol
Concen: 11.890 ng/ul
RT: 7.110 min Scan# 684
Delta R.T. -0.000 min
Lab File: BP017374.D
Acq: 26 Sep 2023 22:08

Tgt Ion: 94 Resp: 133679
Ion Ratio Lower Upper
94 100
65 28.3 21.4 32.2
66 36.4 28.2 42.2



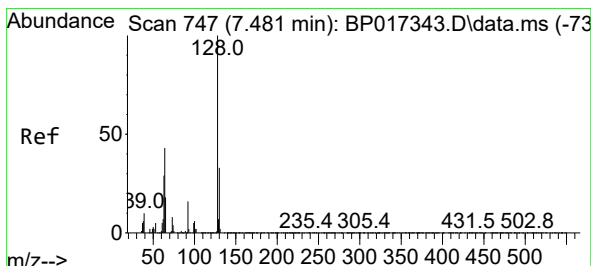
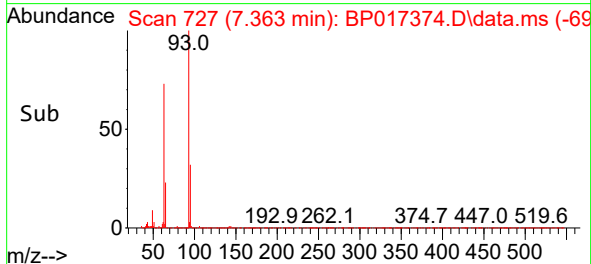
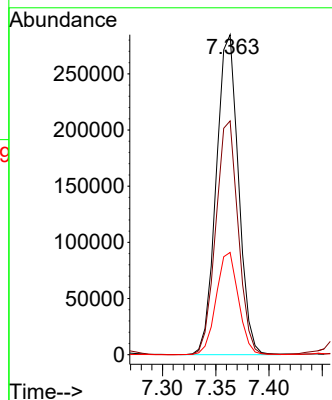
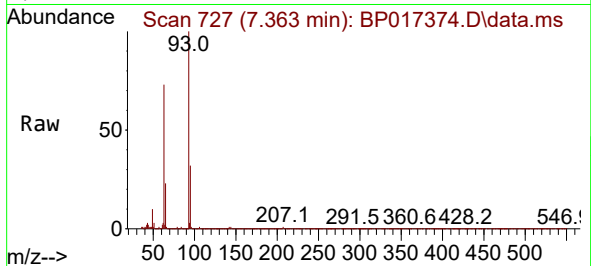


#10
 Bis(2-Chloroethyl)ether
 Concen: 45.388 ng/ul
 RT: 7.363 min Scan# 727
 Delta R.T. -0.000 min
 Lab File: BP017374.D
 Acq: 26 Sep 2023 22:08

Instrument :
 BNA_P
 ClientSampleId :
 BBHR2MSD

Tgt Ion: 93 Resp: 412506

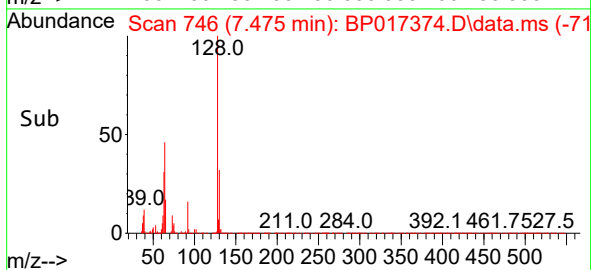
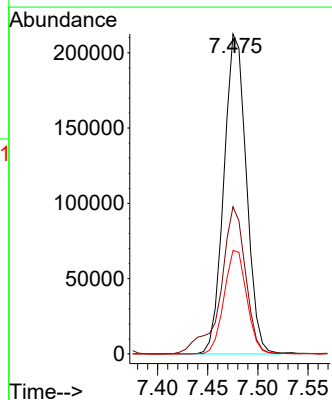
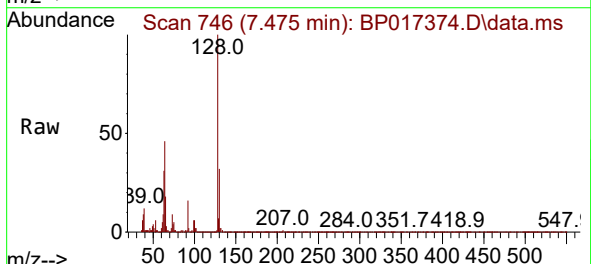
Ion	Ratio	Lower	Upper
93	100		
63	73.1	55.4	83.0
95	31.9	25.1	37.7

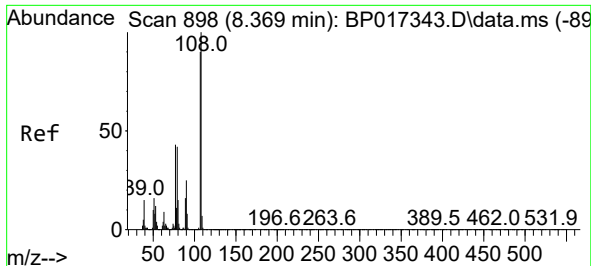


#12
 2-Chlorophenol
 Concen: 36.688 ng/ul
 RT: 7.475 min Scan# 746
 Delta R.T. -0.006 min
 Lab File: BP017374.D
 Acq: 26 Sep 2023 22:08

Tgt Ion: 128 Resp: 330327

Ion	Ratio	Lower	Upper
128	100		
64	46.0	35.8	53.8
130	32.4	25.6	38.4





#13

2-Methylphenol

Concen: 29.184 ng/ul

RT: 8.369 min Scan# 898

Delta R.T. -0.000 min

Lab File: BP017374.D

Acq: 26 Sep 2023 22:08

Instrument :

BNA_P

ClientSampleId :

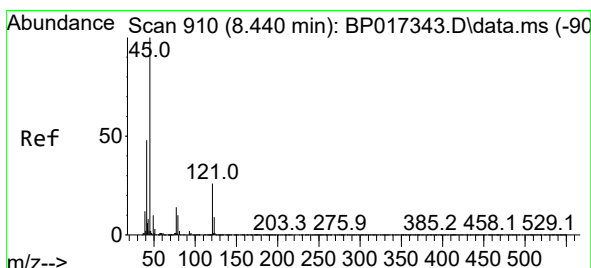
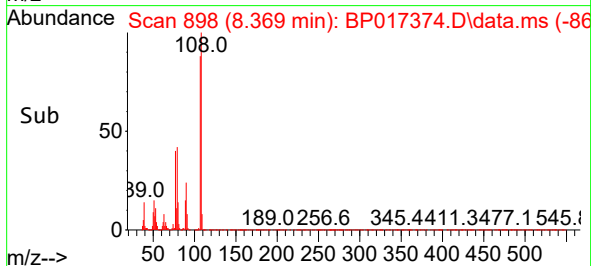
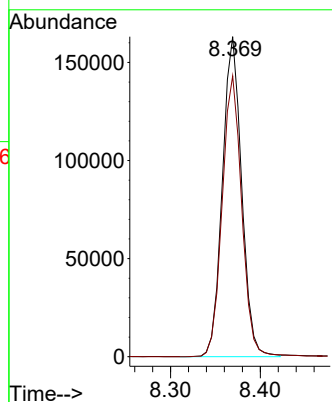
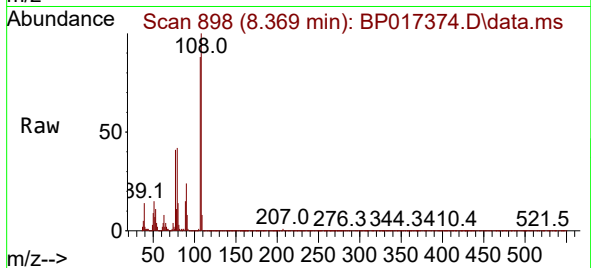
BBHR2MSD

Tgt Ion:108 Resp: 242802

Ion Ratio Lower Upper

108 100

107 87.8 73.5 110.3



#14

2,2'-oxybis(1-Chloropropane)

Concen: 28.725 ng/ul

RT: 8.434 min Scan# 909

Delta R.T. -0.006 min

Lab File: BP017374.D

Acq: 26 Sep 2023 22:08

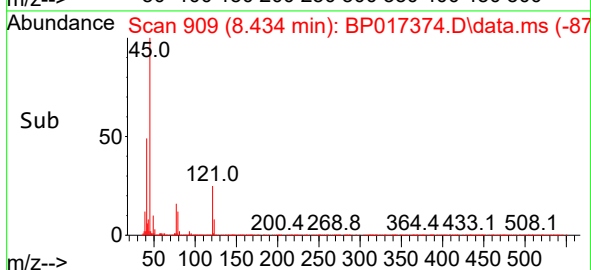
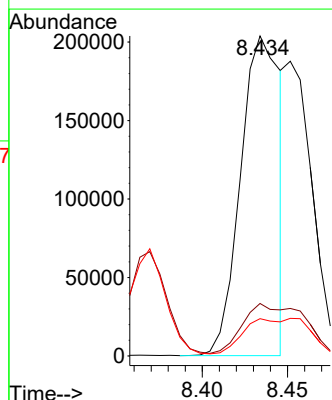
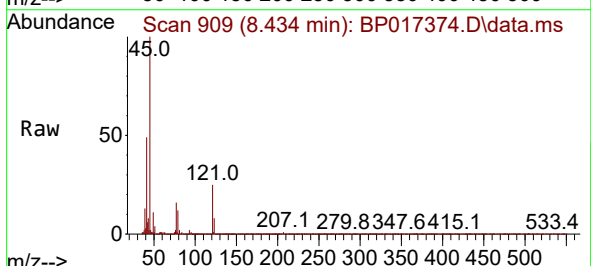
Tgt Ion: 45 Resp: 330173

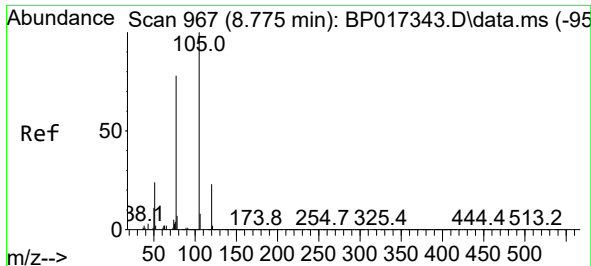
Ion Ratio Lower Upper

45 100

77 16.4 13.3 19.9

79 11.7 9.4 14.2

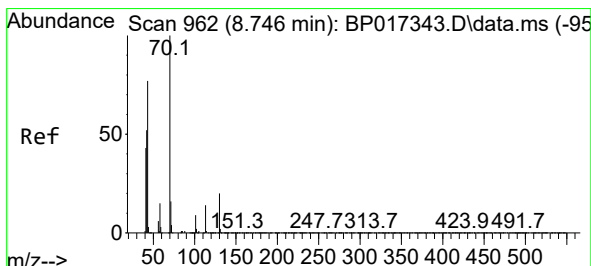
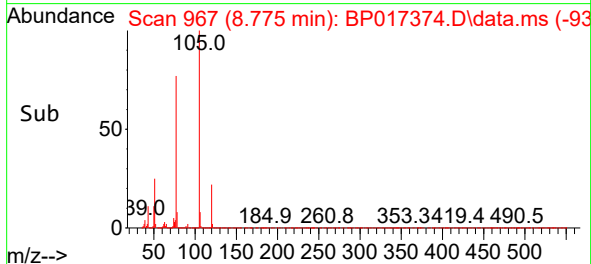
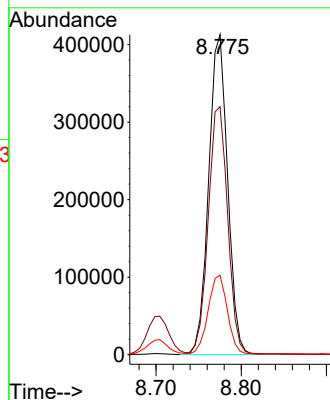
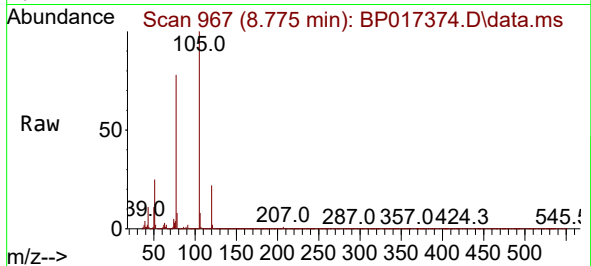




#16
Acetophenone
Concen: 47.449 ng/ul
RT: 8.775 min Scan# 967
Delta R.T. -0.000 min
Lab File: BP017374.D
Acq: 26 Sep 2023 22:08

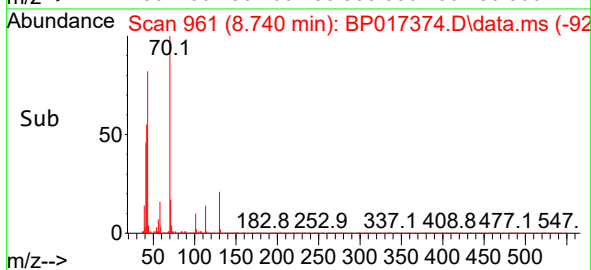
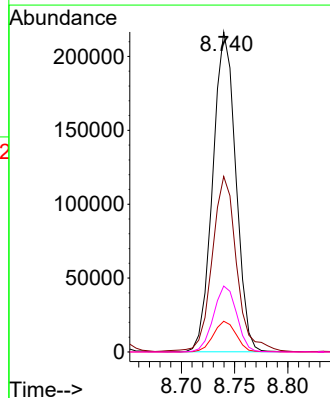
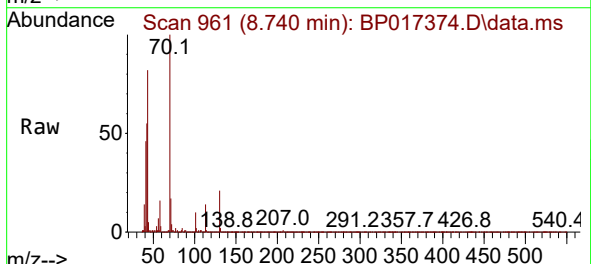
Instrument :
BNA_P
ClientSampleId :
BBHR2MSD

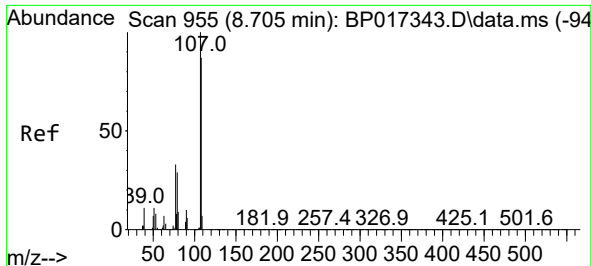
Tgt Ion:105 Resp: 637231
Ion Ratio Lower Upper
105 100
77 77.5 63.6 95.4
51 24.9 19.2 28.8



#17
N-Nitroso-di-n-propylamine
Concen: 48.502 ng/ul
RT: 8.740 min Scan# 961
Delta R.T. -0.006 min
Lab File: BP017374.D
Acq: 26 Sep 2023 22:08

Tgt Ion: 70 Resp: 325077
Ion Ratio Lower Upper
70 100
42 54.9 42.3 63.5
101 9.6 7.5 11.3
130 20.6 17.3 25.9

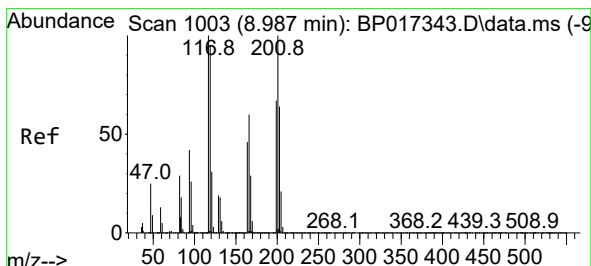
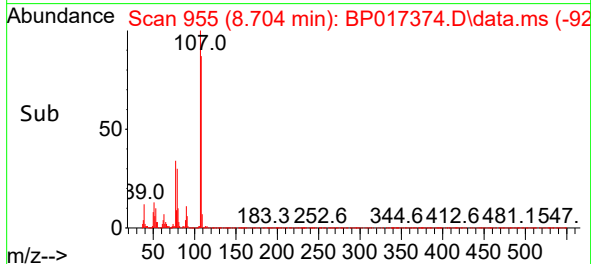
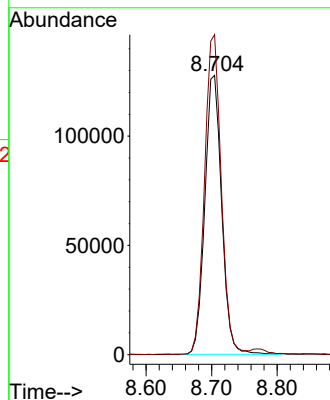
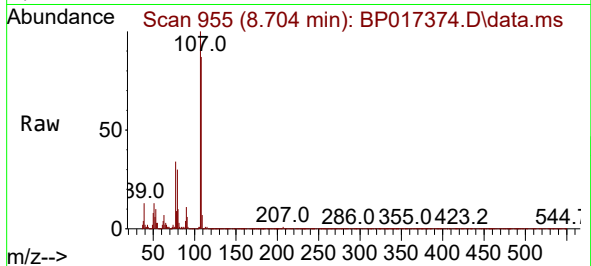




#18
4-Methylphenol
Concen: 25.674 ng/ul
RT: 8.704 min Scan# 91
Delta R.T. -0.000 min
Lab File: BP017374.D
Acq: 26 Sep 2023 22:08

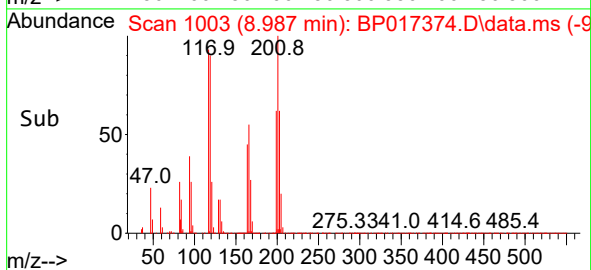
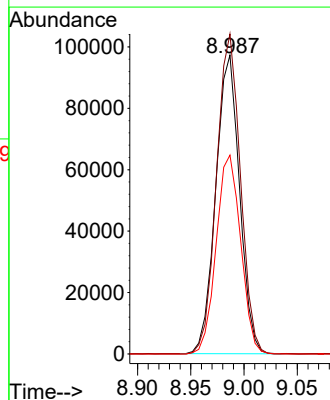
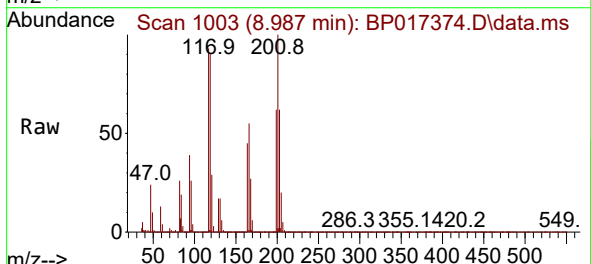
Instrument :
BNA_P
ClientSampleId :
BBHR2MSD

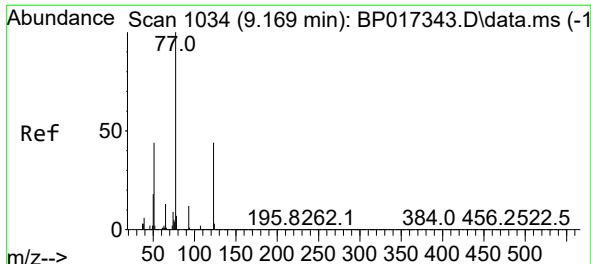
Tgt Ion:108 Resp: 228866
Ion Ratio Lower Upper
108 100
107 114.6 90.0 135.0



#19
Hexachloroethane
Concen: 40.380 ng/ul
RT: 8.987 min Scan# 1003
Delta R.T. -0.000 min
Lab File: BP017374.D
Acq: 26 Sep 2023 22:08

Tgt Ion:117 Resp: 150927
Ion Ratio Lower Upper
117 100
201 107.1 81.4 122.0
199 66.6 52.4 78.6

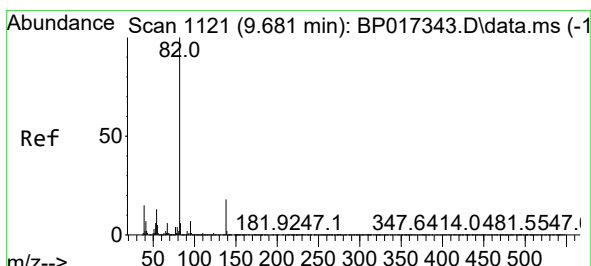
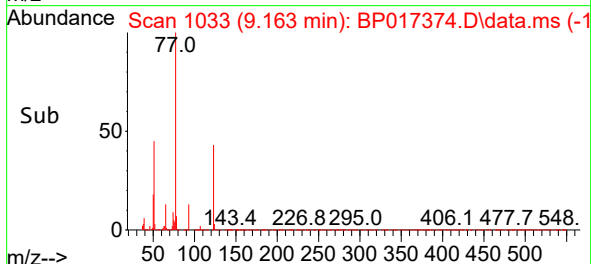
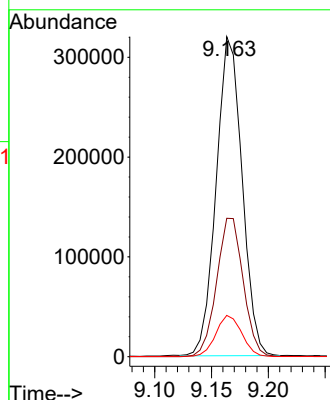
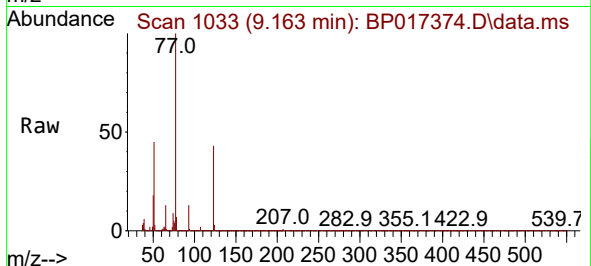




#22
Nitrobenzene
Concen: 46.358 ng/ul
RT: 9.163 min Scan# 1034
Delta R.T. -0.006 min
Lab File: BP017374.D
Acq: 26 Sep 2023 22:08

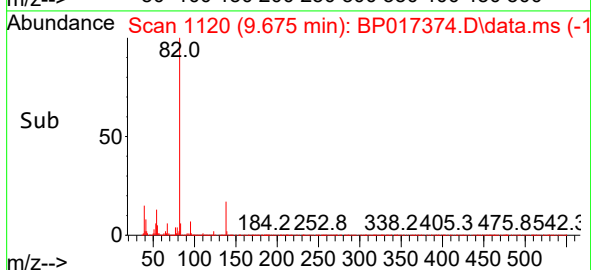
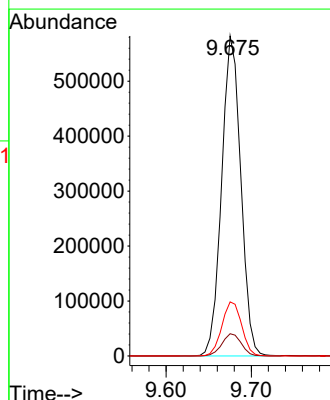
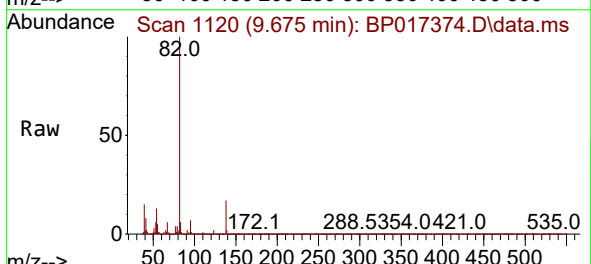
Instrument :
BNA_P
ClientSampleId :
BBHR2MSD

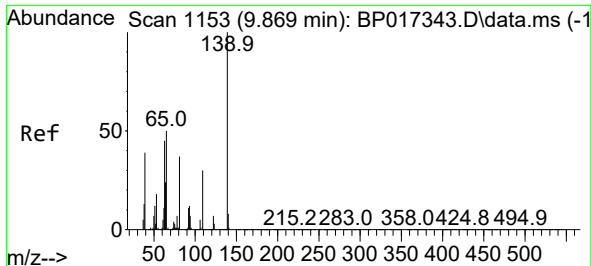
Tgt Ion: 77 Resp: 506958
Ion Ratio Lower Upper
77 100
123 43.3 37.4 56.0
65 12.9 9.8 14.6



#23
Isophorone
Concen: 46.417 ng/ul
RT: 9.675 min Scan# 1120
Delta R.T. -0.006 min
Lab File: BP017374.D
Acq: 26 Sep 2023 22:08

Tgt Ion: 82 Resp: 909598
Ion Ratio Lower Upper
82 100
95 7.0 5.5 8.3
138 16.9 14.2 21.4

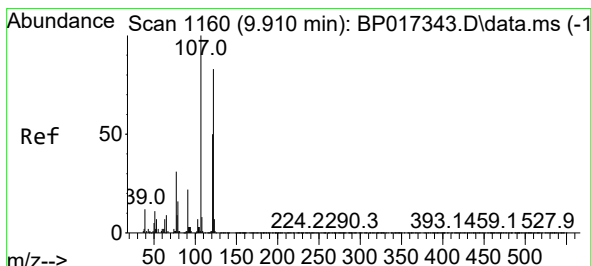
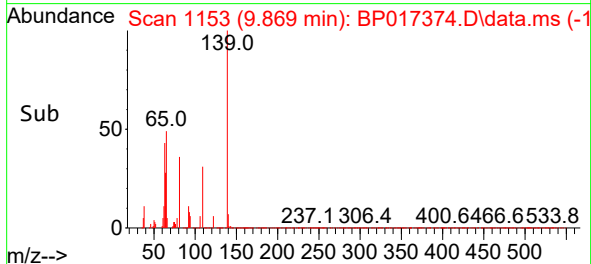
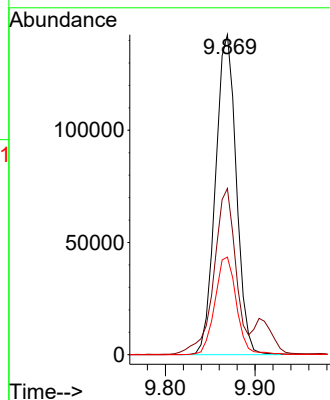
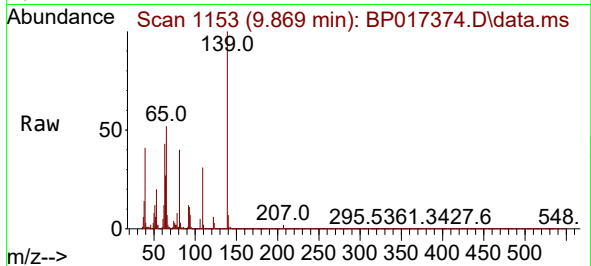




#25
2-Nitrophenol
Concen: 45.295 ng/ul
RT: 9.869 min Scan# 1153
Delta R.T. -0.000 min
Lab File: BP017374.D
Acq: 26 Sep 2023 22:08

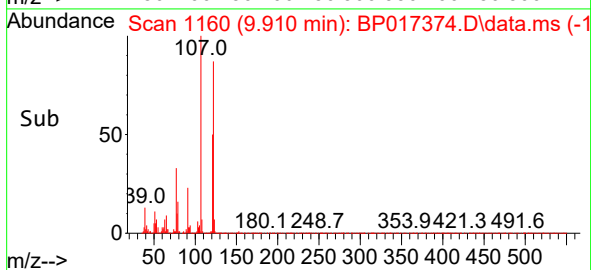
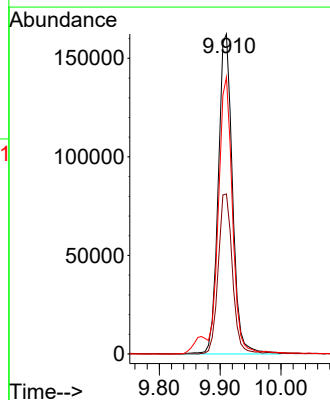
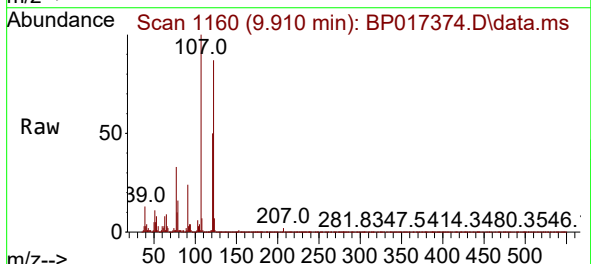
Instrument :
BNA_P
ClientSampleId :
BBHR2MSD

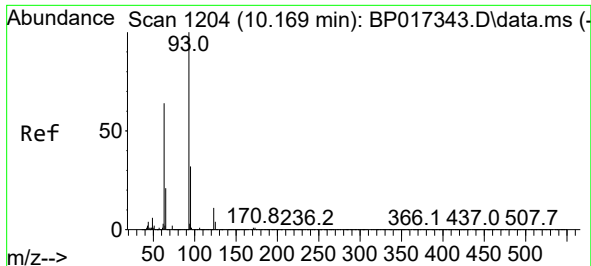
Tgt Ion:139 Resp: 229685
Ion Ratio Lower Upper
139 100
65 52.0 40.6 60.8
109 30.5 24.2 36.4



#26
2,4-Dimethylphenol
Concen: 26.044 ng/ul
RT: 9.910 min Scan# 1160
Delta R.T. -0.000 min
Lab File: BP017374.D
Acq: 26 Sep 2023 22:08

Tgt Ion:107 Resp: 263134
Ion Ratio Lower Upper
107 100
121 50.0 41.1 61.7
122 86.5 69.4 104.0





#27

Bis(2-Chloroethoxy)methane

Concen: 44.514 ng/ul

RT: 10.163 min Scan# 11

Delta R.T. -0.006 min

Lab File: BP017374.D

Acq: 26 Sep 2023 22:08

Instrument :

BNA_P

ClientSampleId :

BBHR2MSD

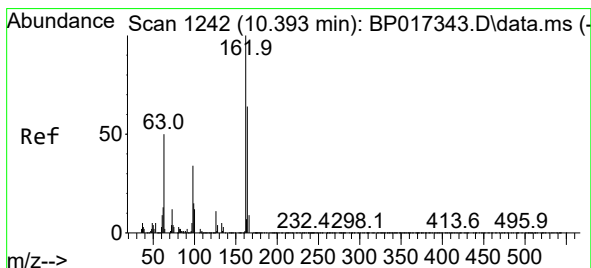
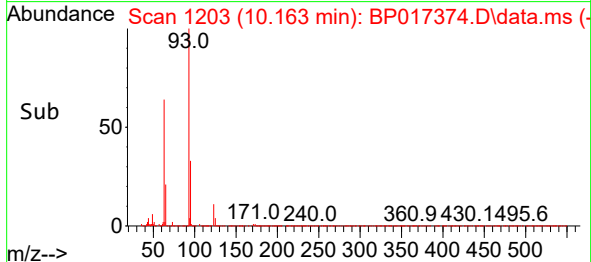
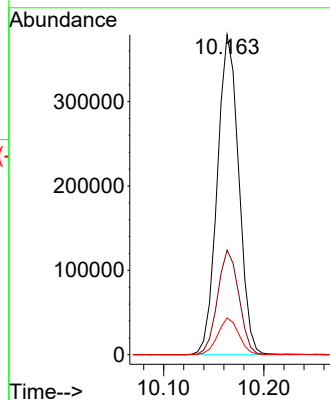
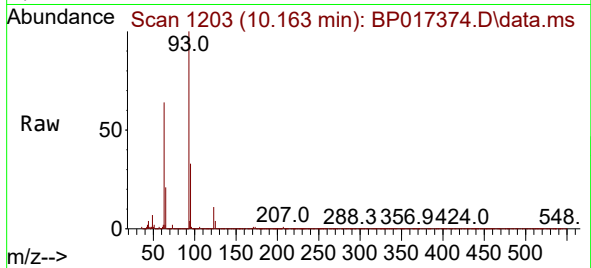
Tgt Ion: 93 Resp: 563100

Ion Ratio Lower Upper

93 100

95 32.6 24.9 37.3

123 11.4 9.4 14.2



#29

2,4-Dichlorophenol

Concen: 42.552 ng/ul

RT: 10.387 min Scan# 1241

Delta R.T. -0.006 min

Lab File: BP017374.D

Acq: 26 Sep 2023 22:08

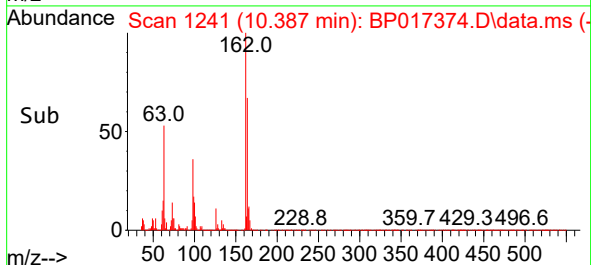
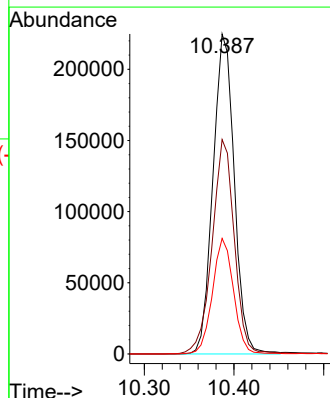
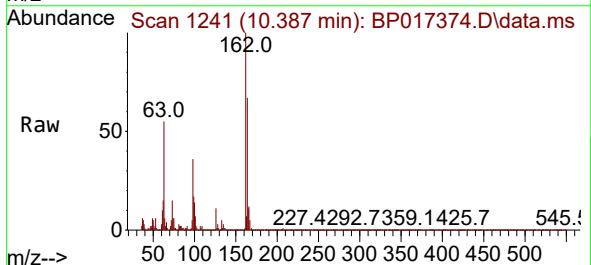
Tgt Ion:162 Resp: 370921

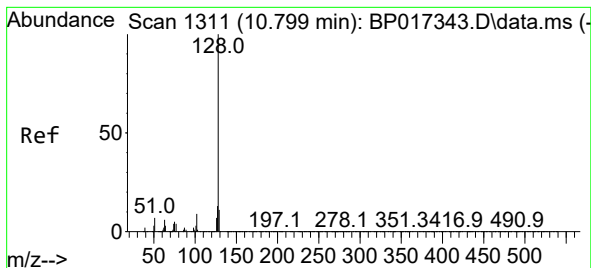
Ion Ratio Lower Upper

162 100

164 67.0 52.6 78.8

98 36.1 27.0 40.4





#30

Naphthalene

Concen: 42.561 ng/ul

RT: 10.798 min Scan# 1311

Delta R.T. -0.000 min

Lab File: BP017374.D

Acq: 26 Sep 2023 22:08

Instrument :

BNA_P

ClientSampleId :

BBHR2MSD

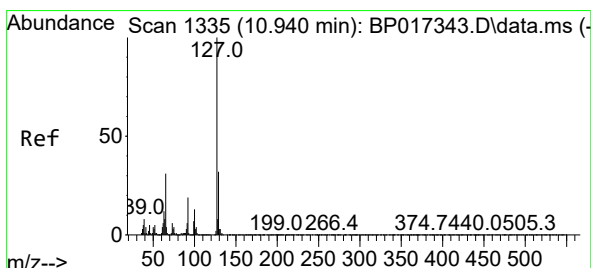
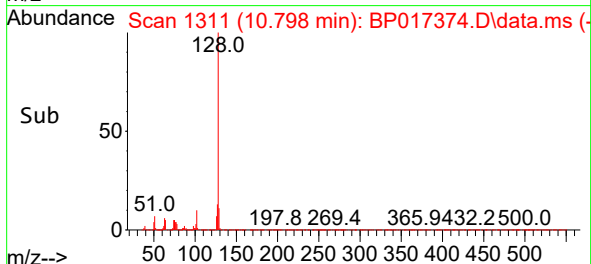
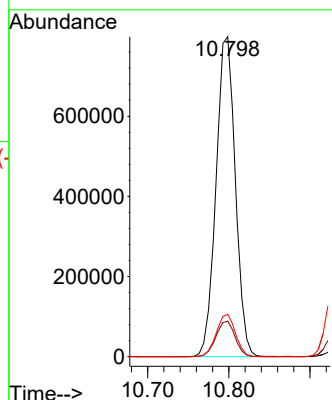
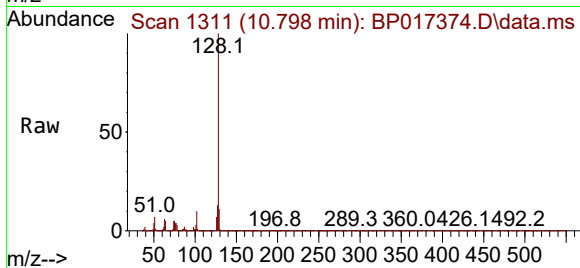
Tgt Ion:128 Resp: 1321110

Ion Ratio Lower Upper

128 100

129 11.1 8.6 13.0

127 13.3 10.6 15.8



#32

4-Chloroaniline

Concen: 36.267 ng/ul

RT: 10.934 min Scan# 1334

Delta R.T. -0.006 min

Lab File: BP017374.D

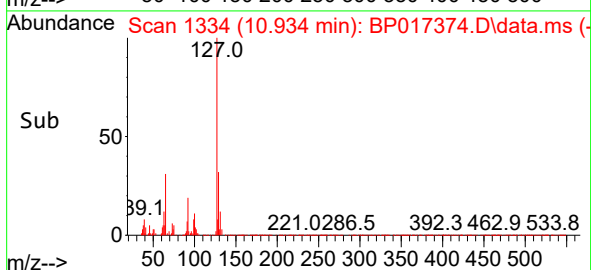
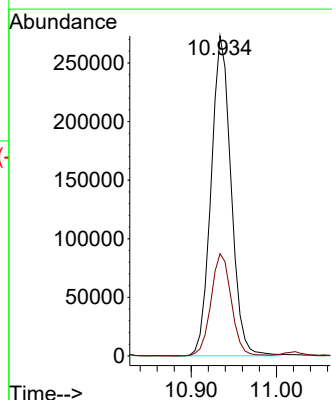
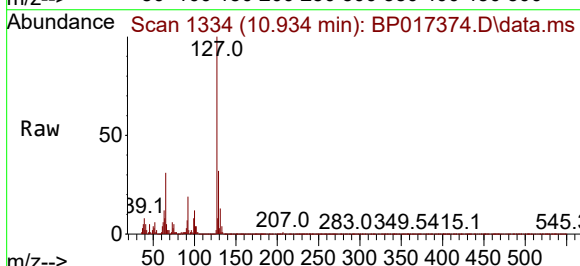
Acq: 26 Sep 2023 22:08

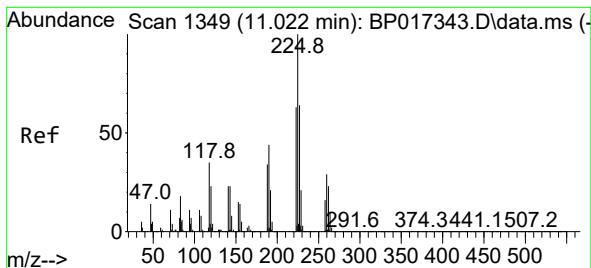
Tgt Ion:127 Resp: 445099

Ion Ratio Lower Upper

127 100

129 32.0 25.1 37.7





#33

Hexachlorobutadiene

Concen: 43.178 ng/ul

RT: 11.022 min Scan# 11

Delta R.T. -0.000 min

Lab File: BP017374.D

Acq: 26 Sep 2023 22:08

Instrument :

BNA_P

ClientSampleId :

BBHR2MSD

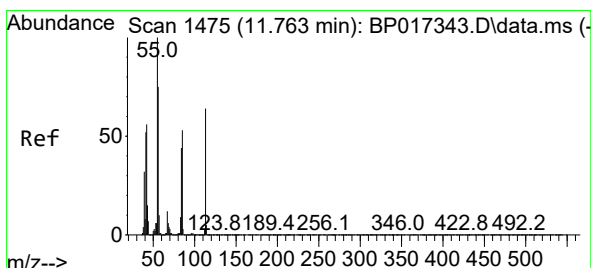
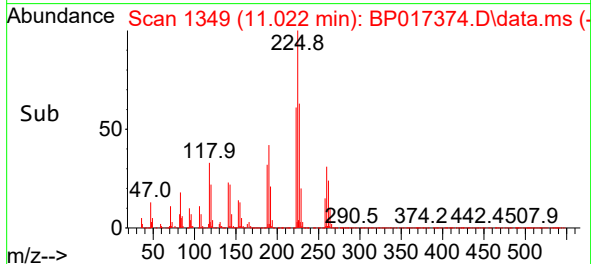
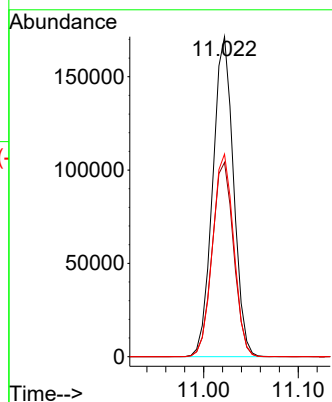
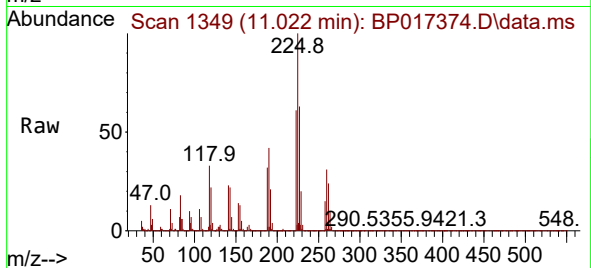
Tgt Ion:225 Resp: 261946

Ion Ratio Lower Upper

225 100

223 60.7 48.2 72.2

227 63.3 50.2 75.4



#34

Caprolactam

Concen: 6.677 ng/ul

RT: 11.763 min Scan# 1475

Delta R.T. -0.000 min

Lab File: BP017374.D

Acq: 26 Sep 2023 22:08

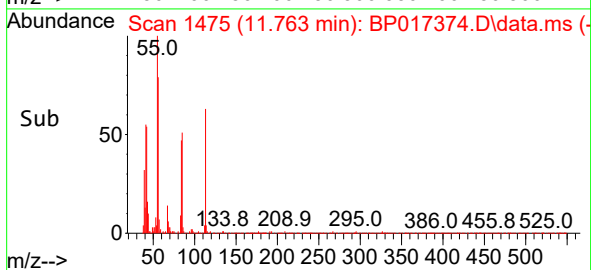
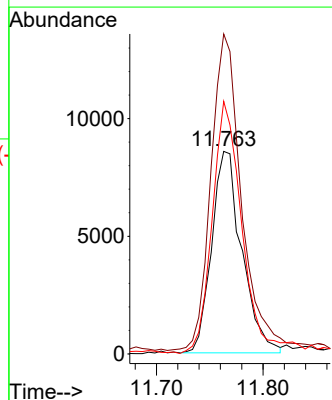
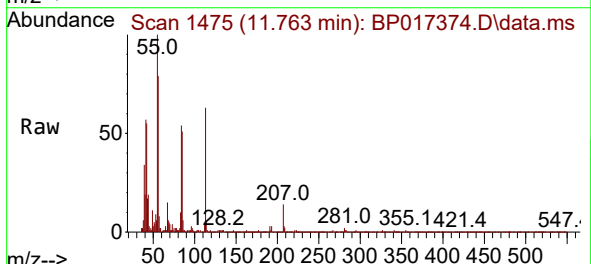
Tgt Ion:113 Resp: 16818

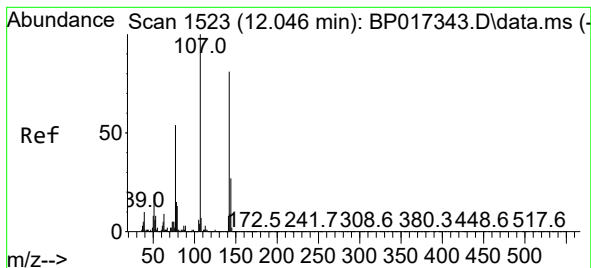
Ion Ratio Lower Upper

113 100

55 157.9 127.4 191.0

56 124.7 94.5 141.7

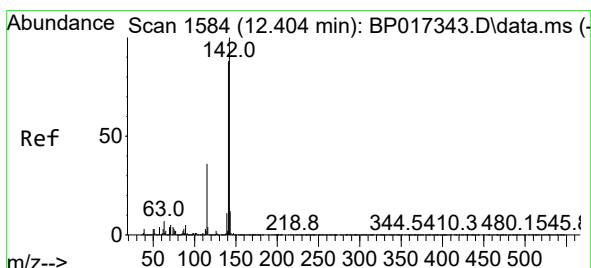
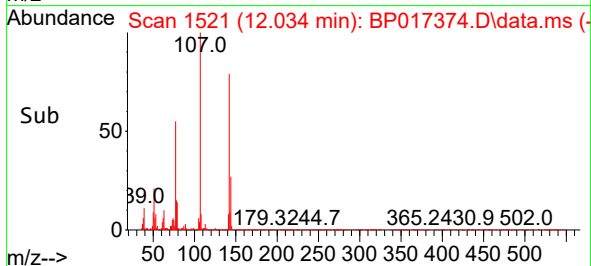
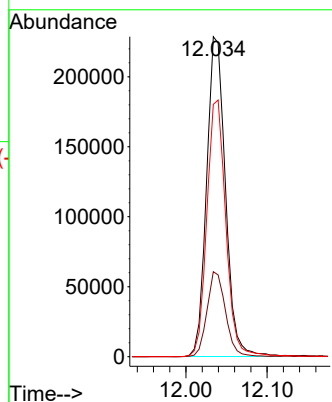
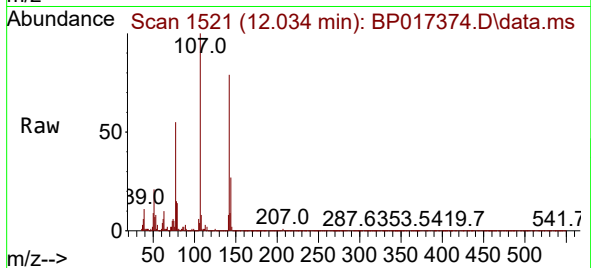




#35
4-Chloro-3-methylphenol
Concen: 42.028 ng/ul
RT: 12.034 min Scan# 1521
Delta R.T. -0.012 min
Lab File: BP017374.D
Acq: 26 Sep 2023 22:08

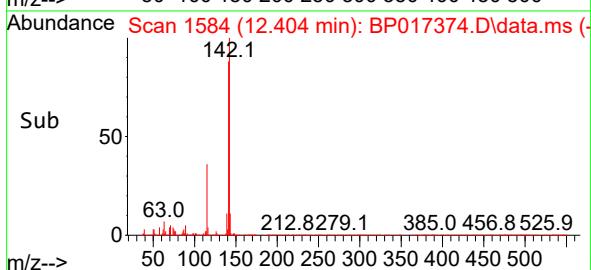
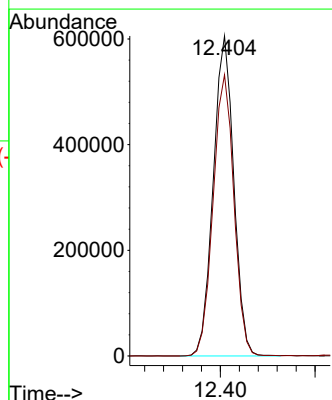
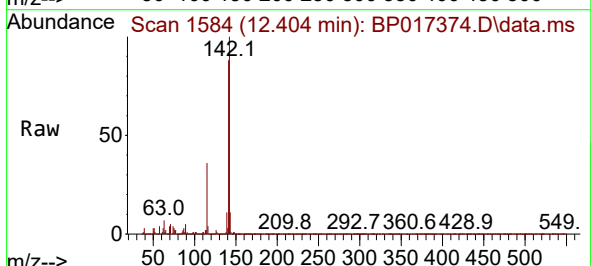
Instrument :
BNA_P
ClientSampleId :
BBHR2MSD

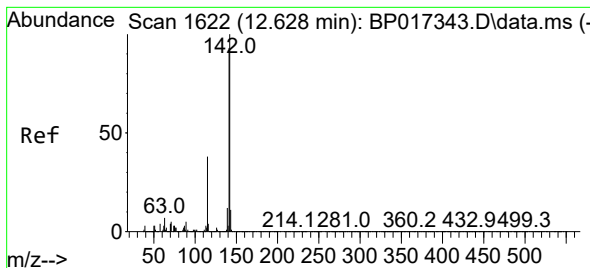
Tgt Ion:107 Resp: 368234
Ion Ratio Lower Upper
107 100
144 26.6 20.6 31.0
142 78.9 62.9 94.3



#36
2-Methylnaphthalene
Concen: 44.847 ng/ul
RT: 12.404 min Scan# 1584
Delta R.T. -0.000 min
Lab File: BP017374.D
Acq: 26 Sep 2023 22:08

Tgt Ion:142 Resp: 908569
Ion Ratio Lower Upper
142 100
141 87.9 71.9 107.9





#37

1-Methylnaphthalene

Concen: 43.191 ng/ul

RT: 12.622 min Scan# 1622

Delta R.T. -0.006 min

Lab File: BP017374.D

Acq: 26 Sep 2023 22:08

Instrument :

BNA_P

ClientSampleId :

BBHR2MSD

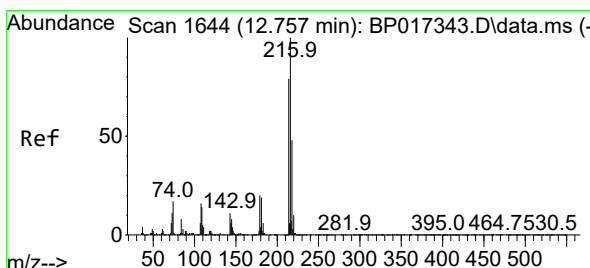
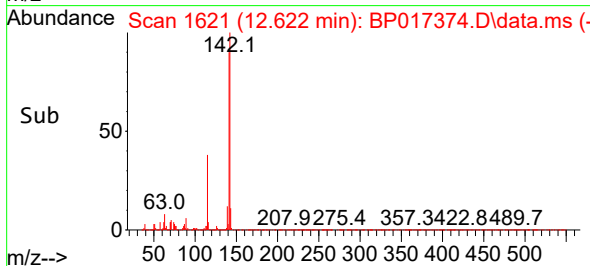
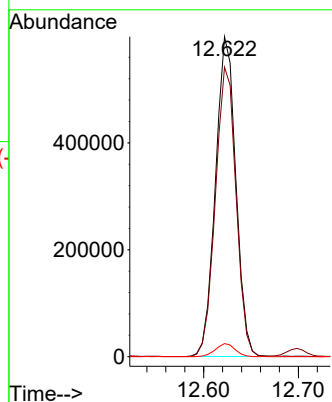
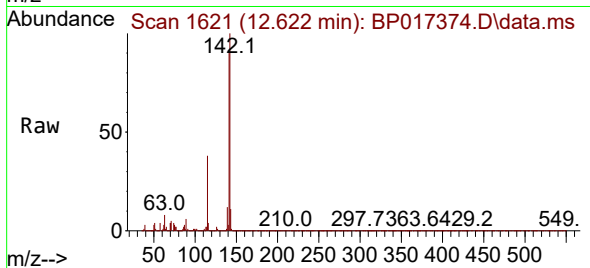
Tgt Ion:142 Resp: 894478

Ion Ratio Lower Upper

142 100

141 90.5 73.4 110.2

116 4.1 3.1 4.7



#39

1,2,4,5-Tetrachlorobenzene

Concen: 43.694 ng/ul

RT: 12.751 min Scan# 1643

Delta R.T. -0.006 min

Lab File: BP017374.D

Acq: 26 Sep 2023 22:08

Tgt Ion:216 Resp: 507492

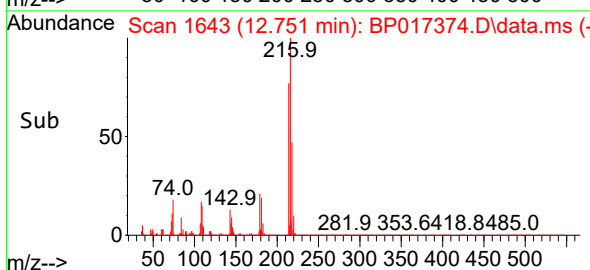
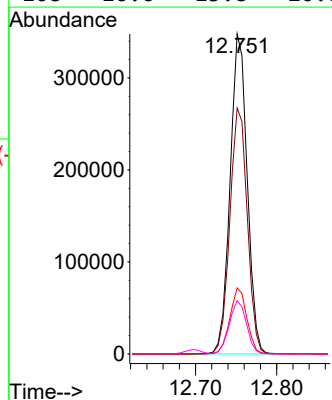
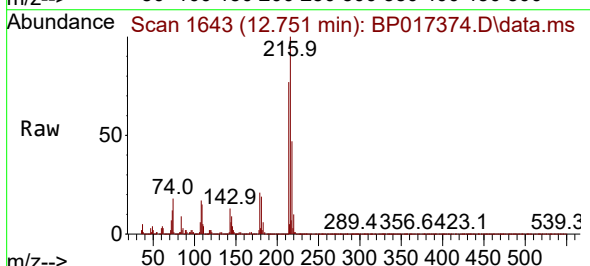
Ion Ratio Lower Upper

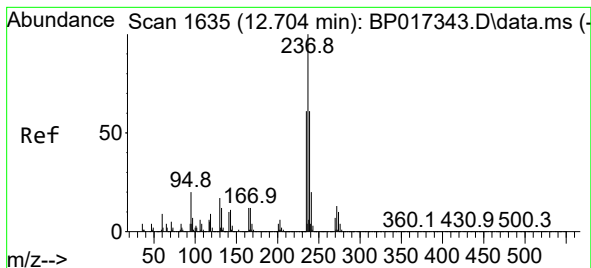
216 100

214 76.9 62.3 93.5

179 20.7 16.4 24.6

108 16.6 13.8 20.8





#40

Hexachlorocyclopentadiene

Concen: 26.547 ng/ul

RT: 12.698 min Scan# 1

Delta R.T. -0.006 min

Lab File: BP017374.D

Acq: 26 Sep 2023 22:08

Instrument :

BNA_P

ClientSampleId :

BBHR2MSD

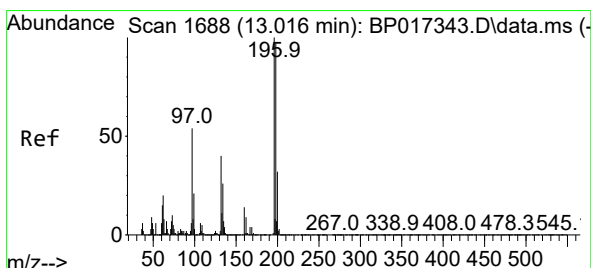
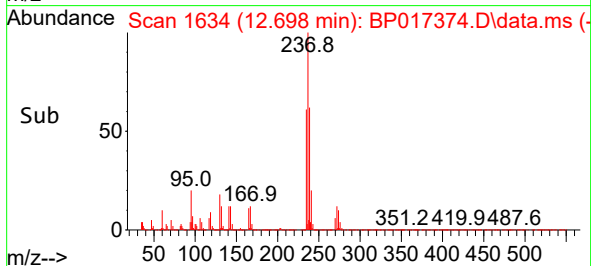
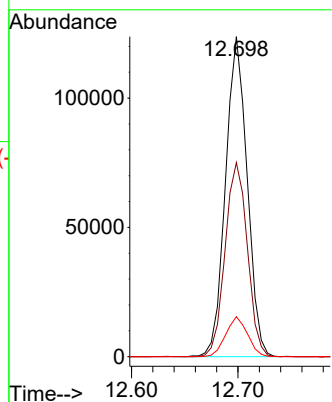
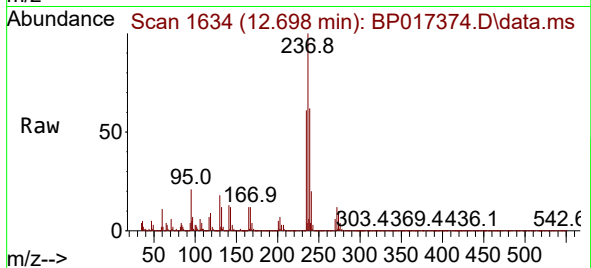
Tgt Ion:237 Resp: 174494

Ion Ratio Lower Upper

237 100

235 60.6 52.8 79.2

272 12.5 9.8 14.6



#41

2,4,6-Trichlorophenol

Concen: 48.599 ng/ul

RT: 13.010 min Scan# 1687

Delta R.T. -0.006 min

Lab File: BP017374.D

Acq: 26 Sep 2023 22:08

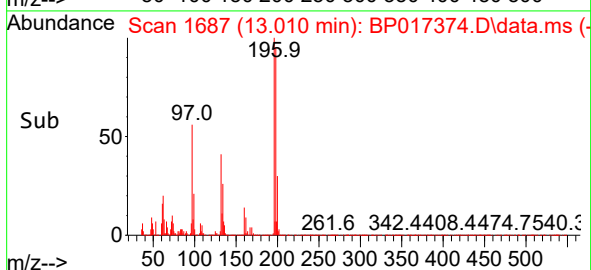
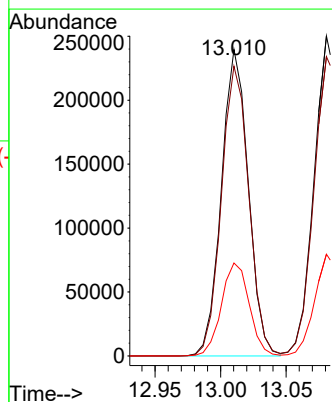
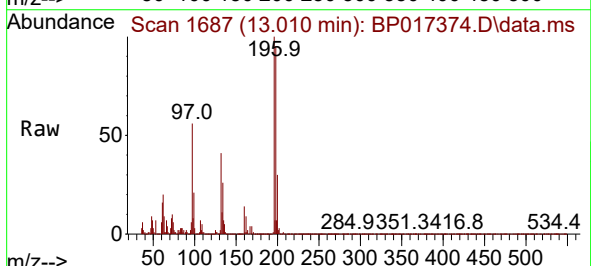
Tgt Ion:196 Resp: 342394

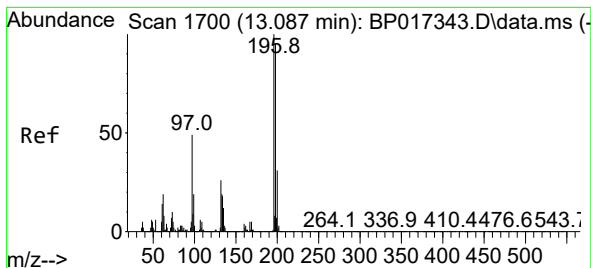
Ion Ratio Lower Upper

196 100

198 94.5 76.2 114.2

200 30.3 25.1 37.7





#42

2,4,5-Trichlorophenol

Concen: 50.136 ng/ul

RT: 13.081 min Scan# 1

Delta R.T. -0.006 min

Lab File: BP017374.D

Acq: 26 Sep 2023 22:08

Instrument :

BNA_P

ClientSampleId :

BBHR2MSD

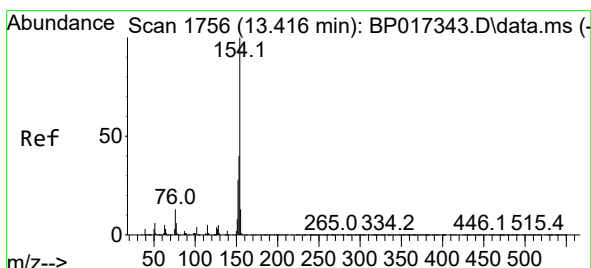
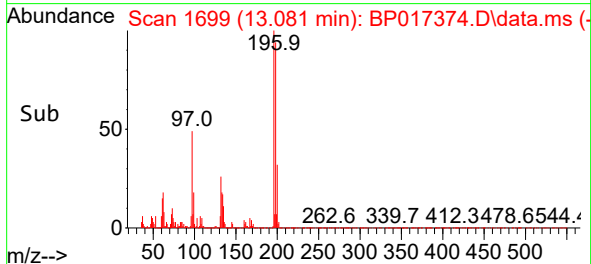
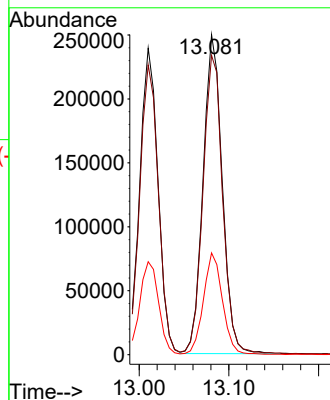
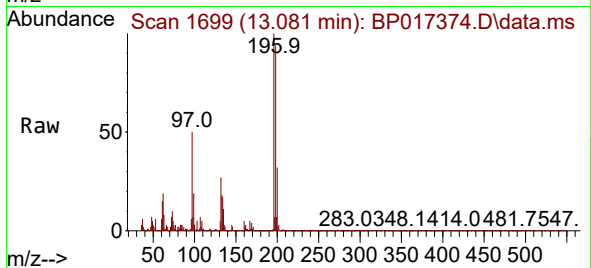
Tgt Ion:196 Resp: 370061

Ion Ratio Lower Upper

196 100

198 93.6 77.4 116.0

200 31.8 24.3 36.5



#43

1,1'-Biphenyl

Concen: 44.143 ng/ul

RT: 13.416 min Scan# 1756

Delta R.T. -0.000 min

Lab File: BP017374.D

Acq: 26 Sep 2023 22:08

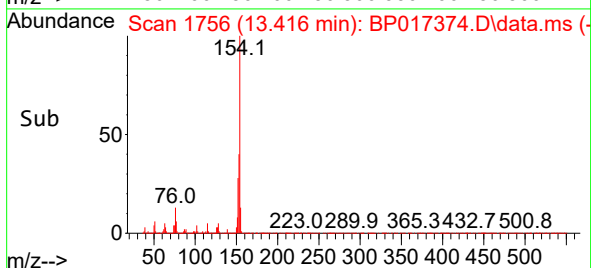
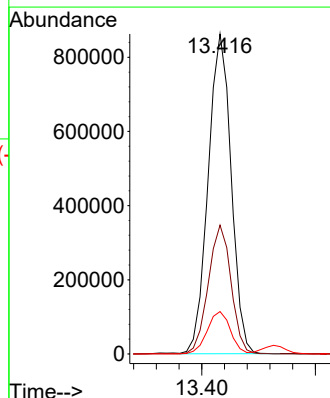
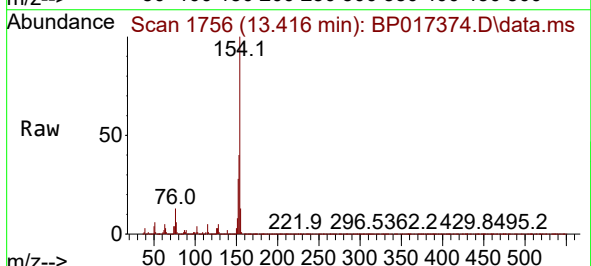
Tgt Ion:154 Resp: 1212116

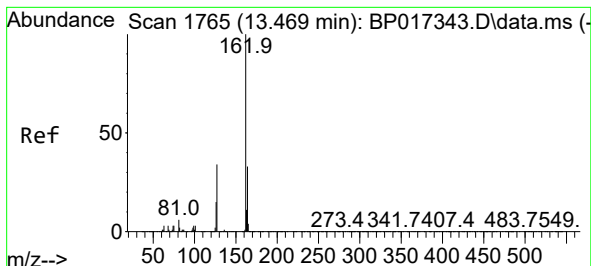
Ion Ratio Lower Upper

154 100

153 40.2 31.5 47.3

76 13.2 11.0 16.6





#44

2-Chloronaphthalene

Concen: 44.479 ng/ul

RT: 13.463 min Scan# 1764

Delta R.T. -0.006 min

Lab File: BP017374.D

Acq: 26 Sep 2023 22:08

Instrument :

BNA_P

ClientSampleId :

BBHR2MSD

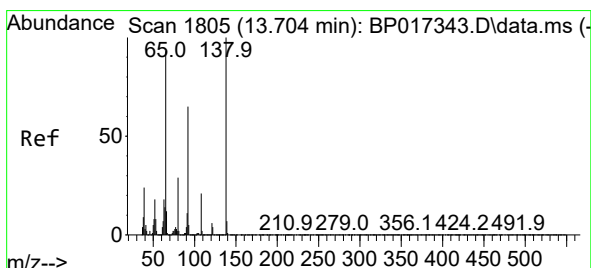
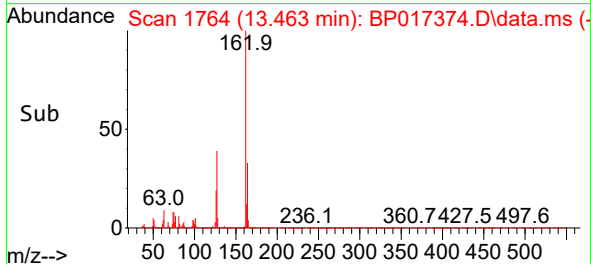
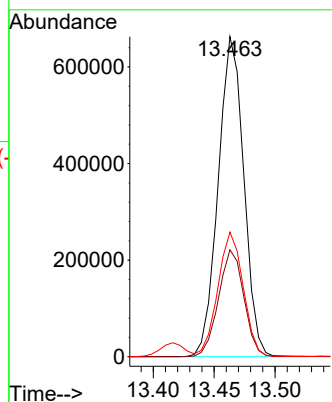
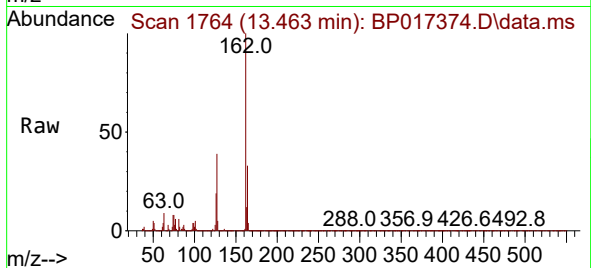
Tgt Ion:162 Resp: 968298

Ion Ratio Lower Upper

162 100

164 33.4 26.8 40.2

127 39.0 30.7 46.1



#45

2-Nitroaniline

Concen: 45.498 ng/ul

RT: 13.704 min Scan# 1805

Delta R.T. -0.000 min

Lab File: BP017374.D

Acq: 26 Sep 2023 22:08

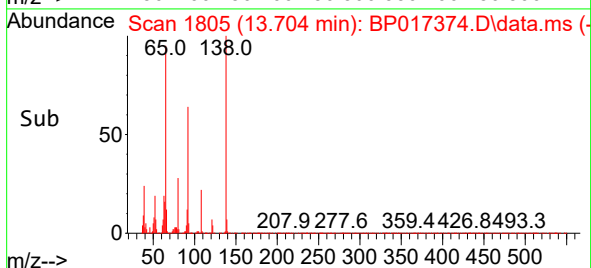
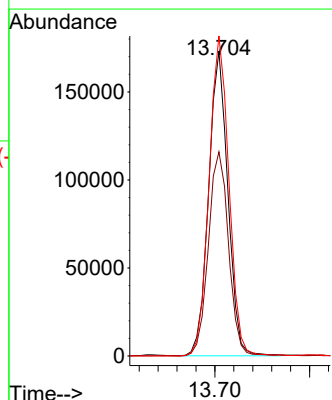
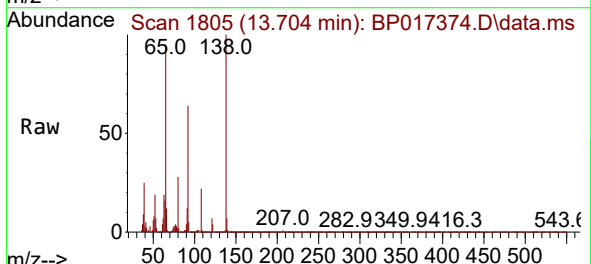
Tgt Ion: 65 Resp: 243314

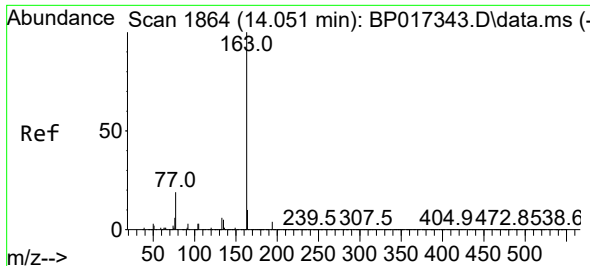
Ion Ratio Lower Upper

65 100

92 67.0 57.7 86.5

138 105.0 83.5 125.3

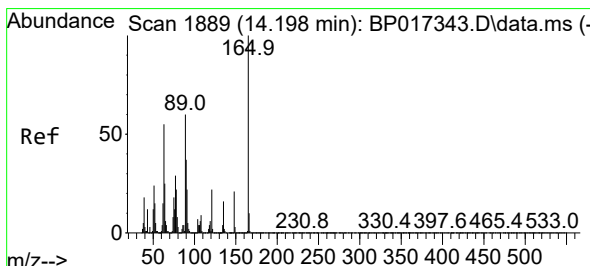
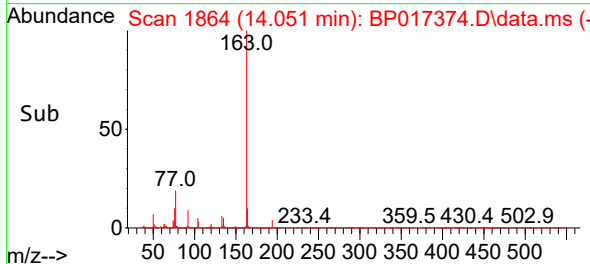
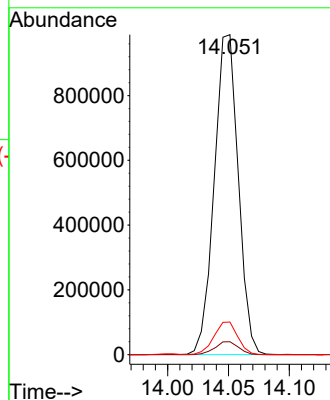
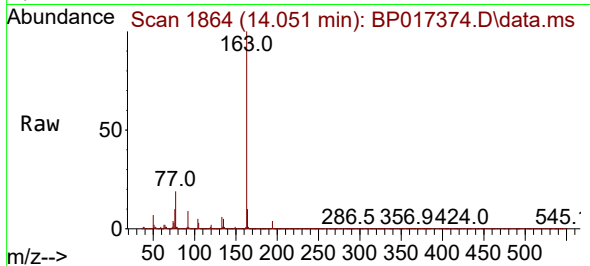




#47
Dimethylphthalate
Concen: 51.905 ng/ul
RT: 14.051 min Scan# 1864
Delta R.T. -0.000 min
Lab File: BP017374.D
Acq: 26 Sep 2023 22:08

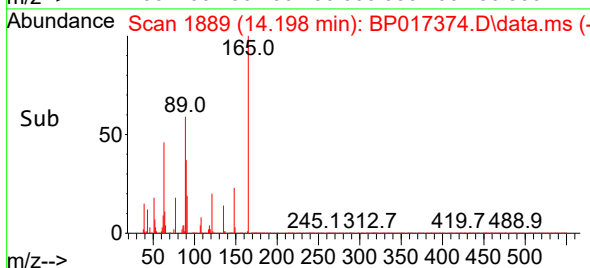
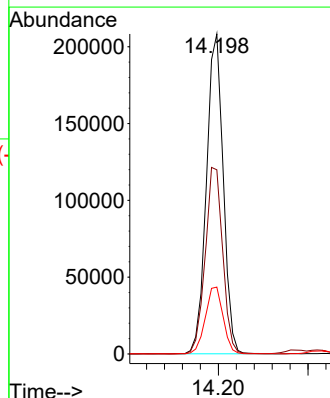
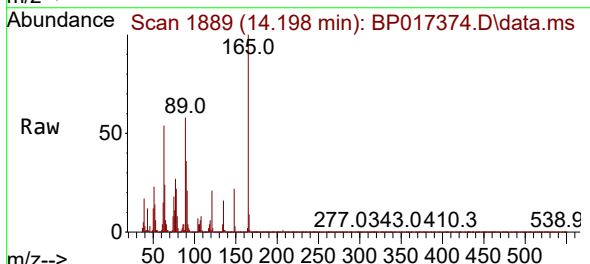
Instrument :
BNA_P
ClientSampleId :
BBHR2MSD

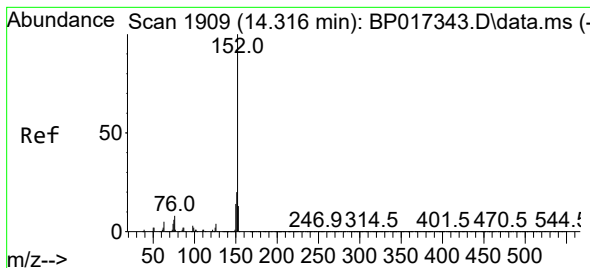
Tgt Ion:163 Resp: 1355581
Ion Ratio Lower Upper
163 100
194 4.0 3.2 4.8
164 10.2 7.5 11.3



#48
2,6-Dinitrotoluene
Concen: 59.643 ng/ul
RT: 14.198 min Scan# 1889
Delta R.T. -0.000 min
Lab File: BP017374.D
Acq: 26 Sep 2023 22:08

Tgt Ion:165 Resp: 270554
Ion Ratio Lower Upper
165 100
89 57.6 51.7 77.5
121 20.9 19.7 29.5





#50

Acenaphthylene

Concen: 46.126 ng/ul

RT: 14.316 min Scan# 1909

Delta R.T. -0.000 min

Lab File: BP017374.D

Acq: 26 Sep 2023 22:08

Instrument :

BNA_P

ClientSampleId :

BBHR2MSD

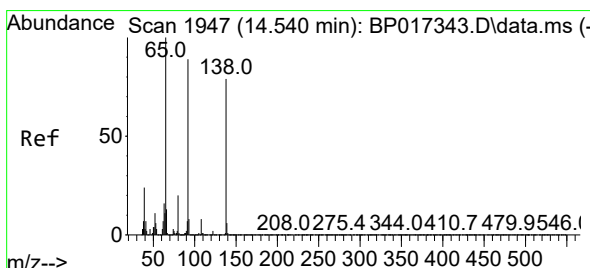
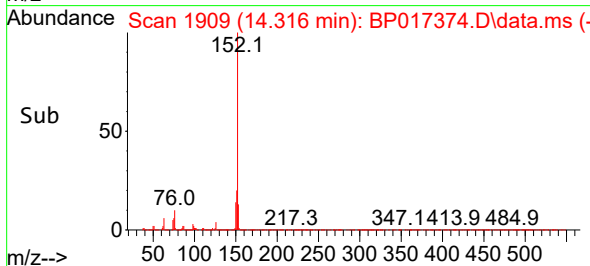
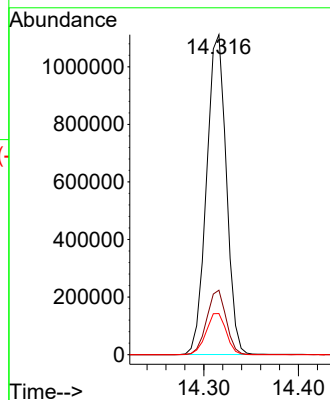
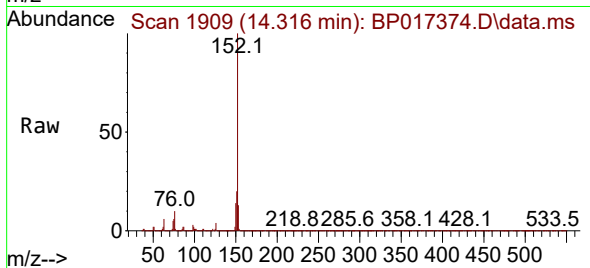
Tgt Ion:152 Resp: 1608348

Ion Ratio Lower Upper

152 100

151 20.1 16.0 24.0

153 12.9 10.4 15.6



#51

3-Nitroaniline

Concen: 37.101 ng/ul

RT: 14.534 min Scan# 1946

Delta R.T. -0.006 min

Lab File: BP017374.D

Acq: 26 Sep 2023 22:08

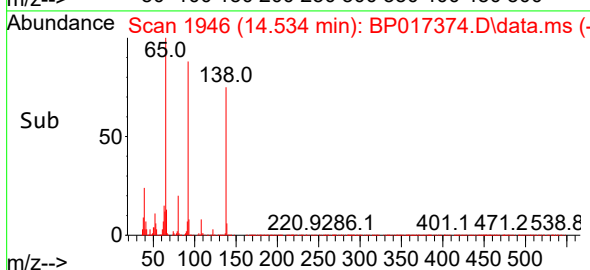
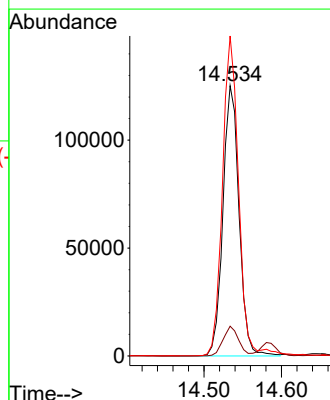
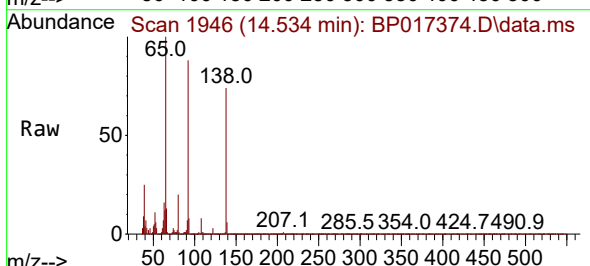
Tgt Ion:138 Resp: 181116

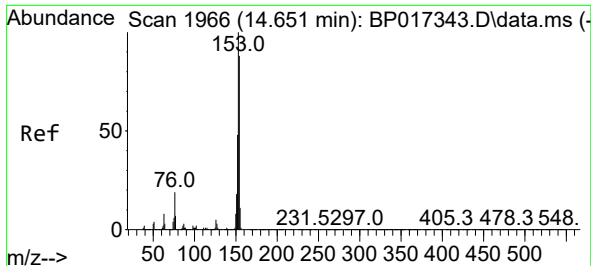
Ion Ratio Lower Upper

138 100

108 11.0 8.2 12.4

92 118.4 97.4 146.0

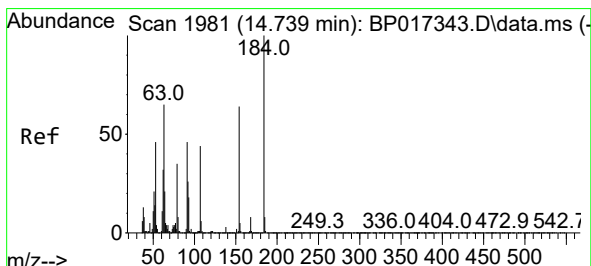
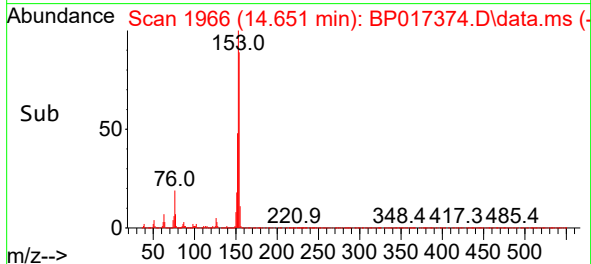
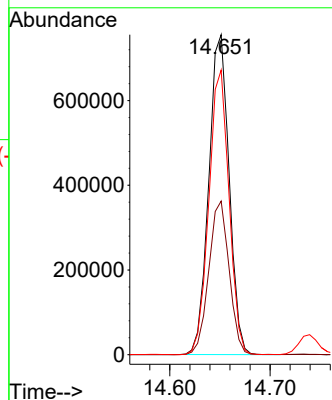
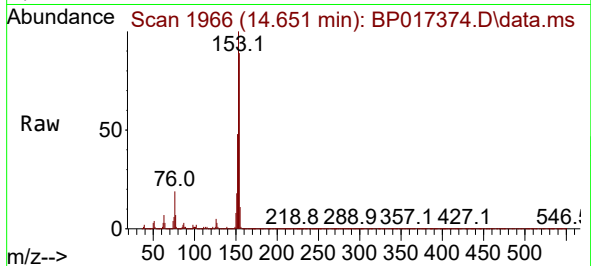




#52
Acenaphthene
Concen: 46.324 ng/ul
RT: 14.651 min Scan# 1966
Delta R.T. -0.000 min
Lab File: BP017374.D
Acq: 26 Sep 2023 22:08

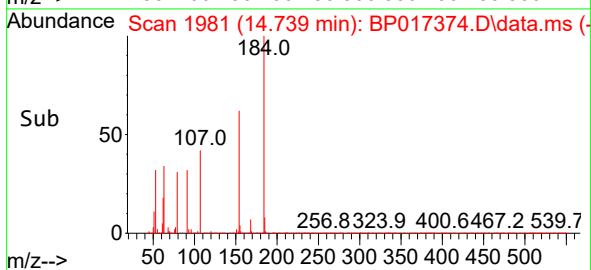
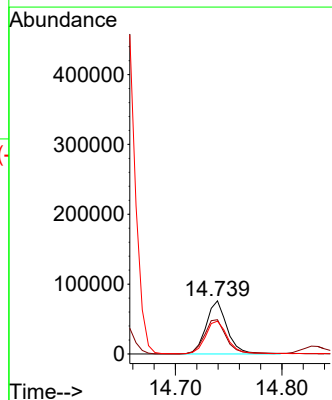
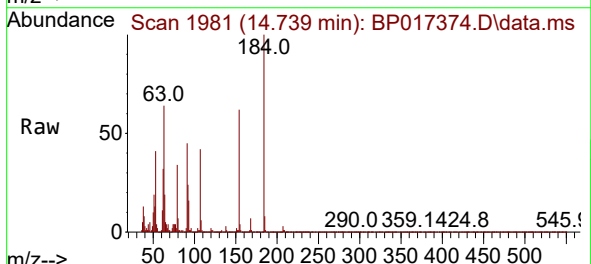
Instrument :
BNA_P
ClientSampleId :
BBHR2MSD

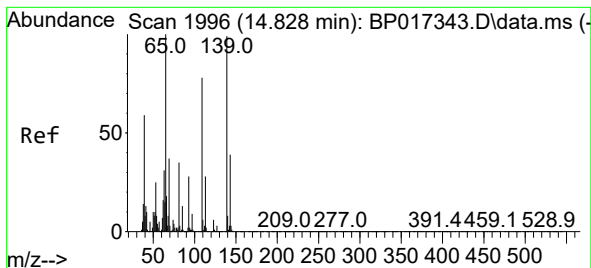
Tgt Ion:153 Resp: 1066755
Ion Ratio Lower Upper
153 100
152 48.0 38.0 57.0
154 88.9 70.1 105.1



#53
2,4-Dinitrophenol
Concen: 36.638 ng/ul
RT: 14.739 min Scan# 1981
Delta R.T. -0.000 min
Lab File: BP017374.D
Acq: 26 Sep 2023 22:08

Tgt Ion:184 Resp: 103962
Ion Ratio Lower Upper
184 100
63 64.3 53.2 79.8
154 61.8 48.9 73.3

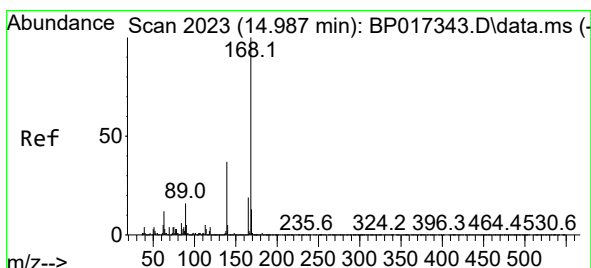
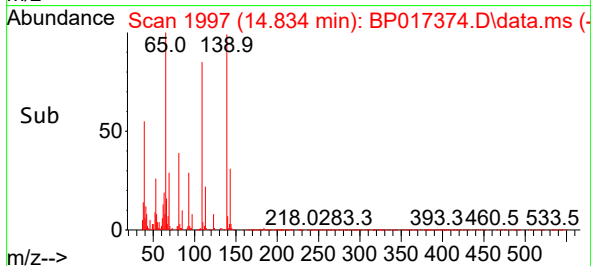
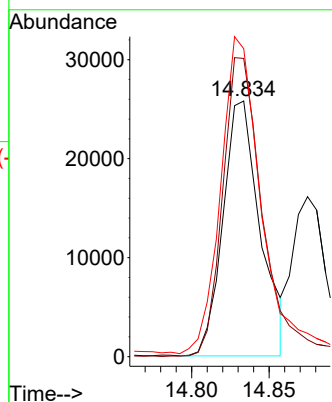
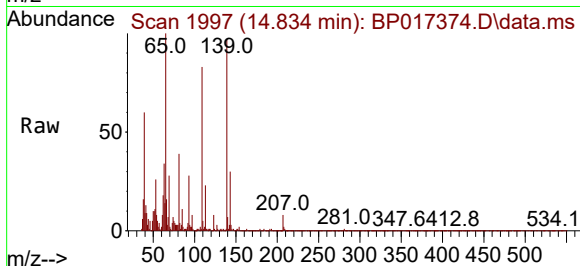




#55
4-Nitrophenol
Concen: 12.148 ng/ul
RT: 14.834 min Scan# 1996
Delta R.T. 0.006 min
Lab File: BP017374.D
Acq: 26 Sep 2023 22:08

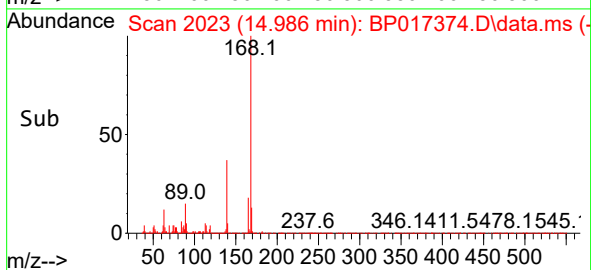
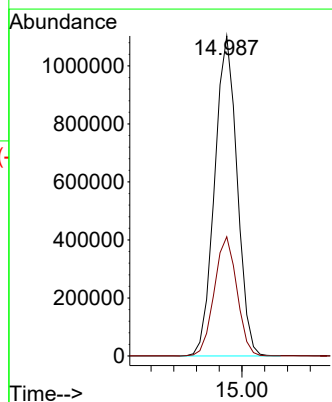
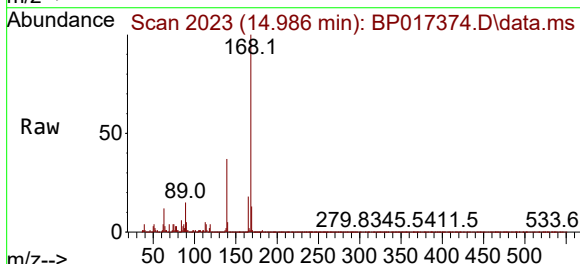
Instrument :
BNA_P
ClientSampleId :
BBHR2MSD

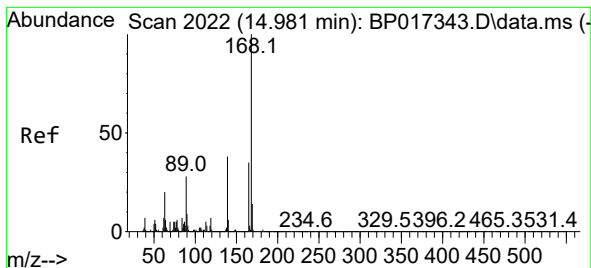
Tgt Ion:109 Resp: 42866
Ion Ratio Lower Upper
109 100
139 116.6 105.7 158.5
65 120.4 105.4 158.0



#56
Dibenzofuran
Concen: 48.109 ng/ul
RT: 14.986 min Scan# 2023
Delta R.T. -0.000 min
Lab File: BP017374.D
Acq: 26 Sep 2023 22:08

Tgt Ion:168 Resp: 1517157
Ion Ratio Lower Upper
168 100
139 37.2 30.6 45.8

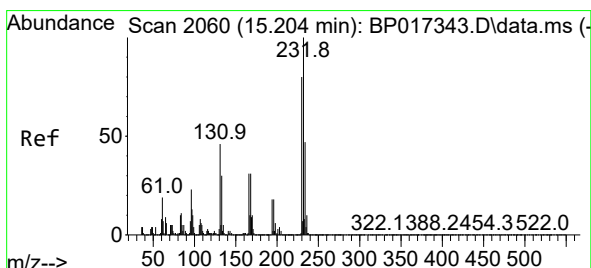
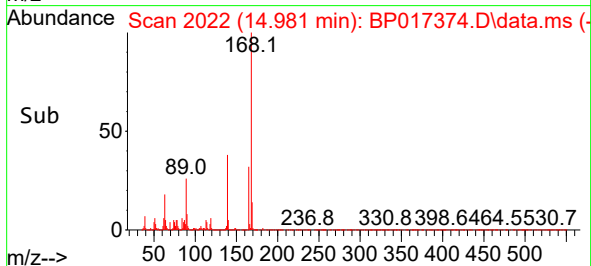
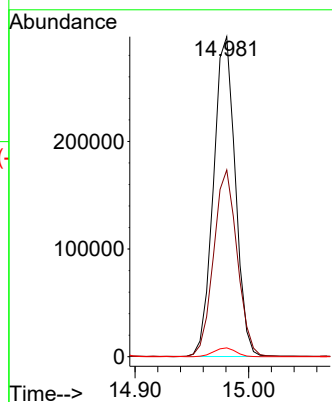
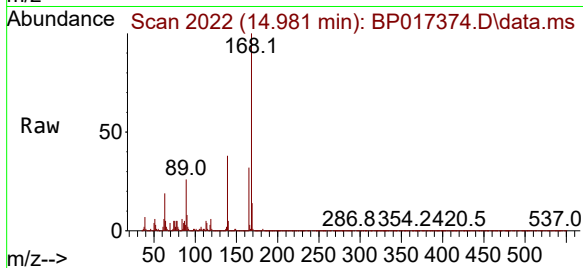




#57
2,4-Dinitrotoluene
Concen: 59.603 ng/ul
RT: 14.981 min Scan# 2022
Delta R.T. -0.000 min
Lab File: BP017374.D
Acq: 26 Sep 2023 22:08

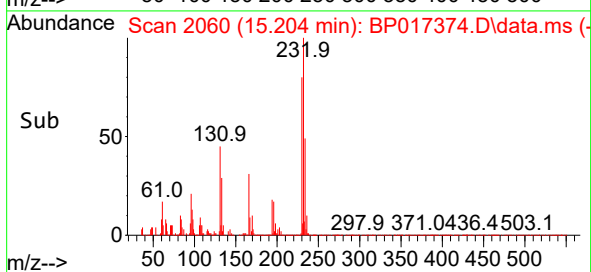
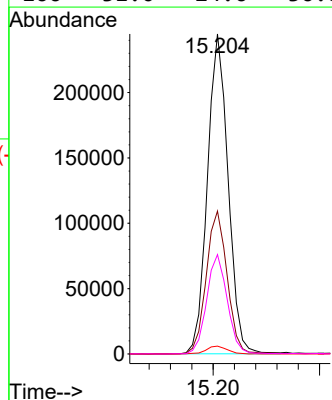
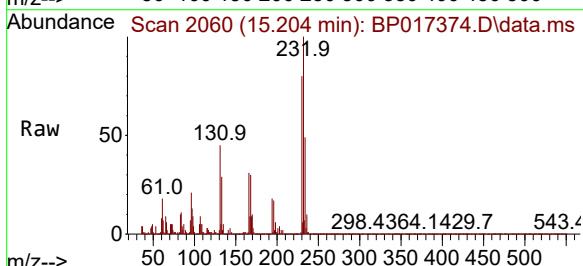
Instrument :
BNA_P
ClientSampleId :
BBHR2MSD

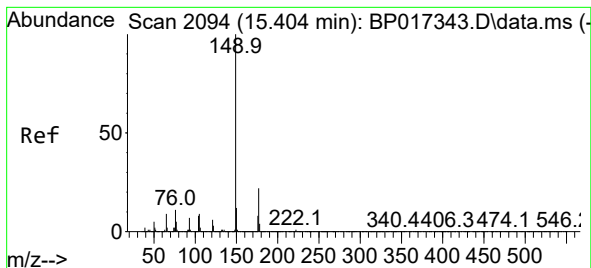
Tgt Ion:165 Resp: 398258
Ion Ratio Lower Upper
165 100
63 58.4 45.6 68.4
182 2.7 2.0 3.0



#58
2,3,4,6-Tetrachlorophenol
Concen: 52.711 ng/ul
RT: 15.204 min Scan# 2060
Delta R.T. -0.000 min
Lab File: BP017374.D
Acq: 26 Sep 2023 22:08

Tgt Ion:232 Resp: 330132
Ion Ratio Lower Upper
232 100
131 44.7 38.4 57.6
130 2.4 2.0 3.0
166 31.0 24.6 36.8





#59

Diethylphthalate

Concen: 54.689 ng/ul

RT: 15.404 min Scan# 2094

Delta R.T. -0.000 min

Lab File: BP017374.D

Acq: 26 Sep 2023 22:08

Instrument :

BNA_P

ClientSampleId :

BBHR2MSD

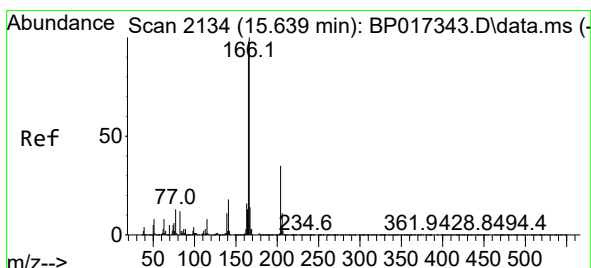
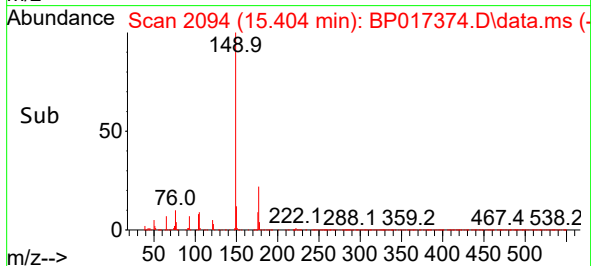
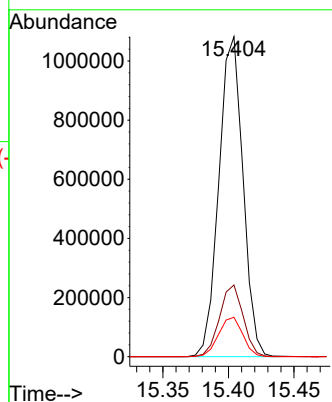
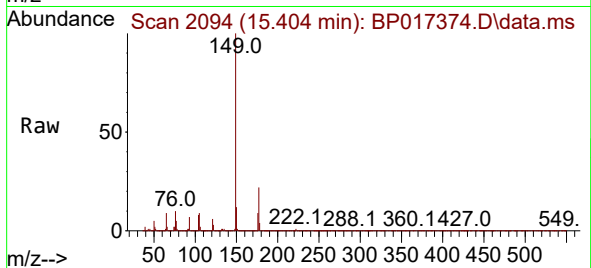
Tgt Ion:149 Resp: 1380794

Ion Ratio Lower Upper

149 100

177 22.4 17.0 25.6

150 12.3 9.8 14.6



#61

Fluorene

Concen: 50.242 ng/ul

RT: 15.639 min Scan# 2134

Delta R.T. -0.000 min

Lab File: BP017374.D

Acq: 26 Sep 2023 22:08

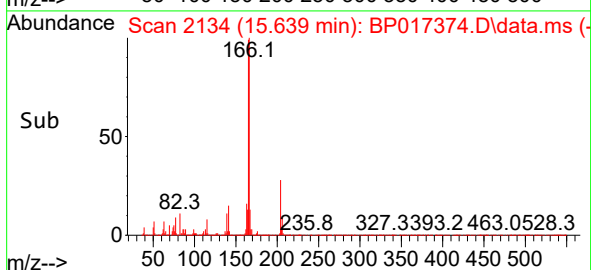
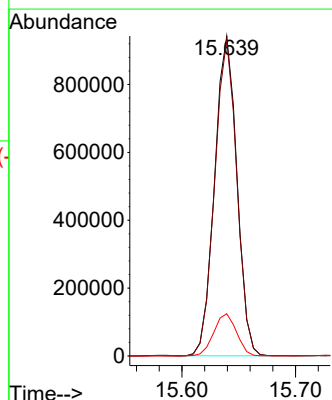
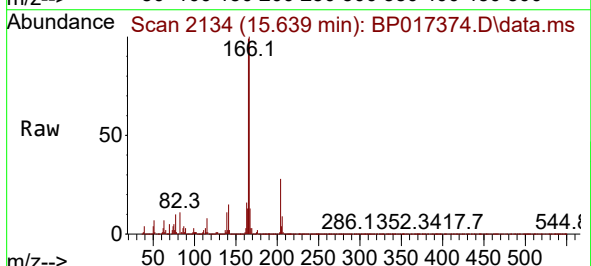
Tgt Ion:166 Resp: 1287320

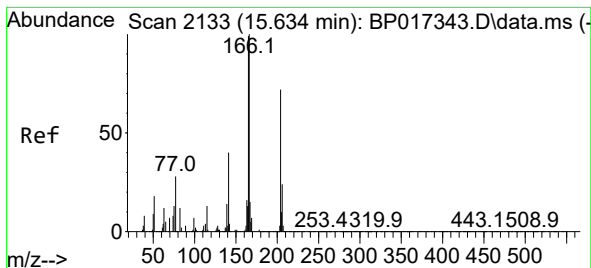
Ion Ratio Lower Upper

166 100

165 98.9 77.8 116.6

167 13.2 10.9 16.3

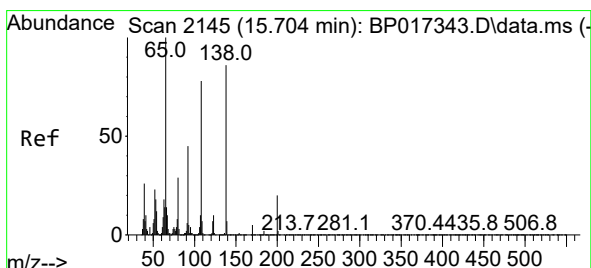
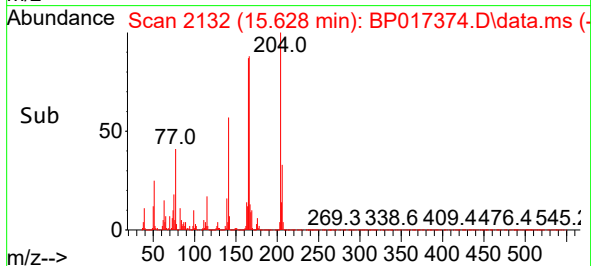
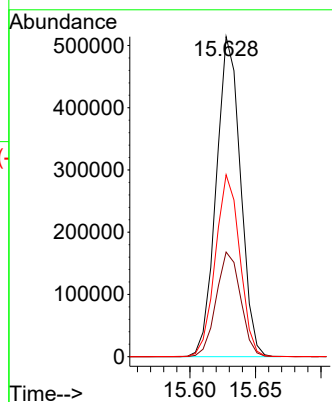
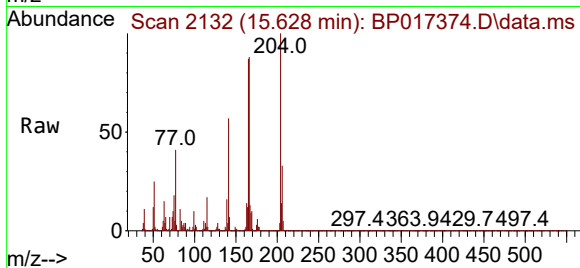




#62
4-Chlorophenyl-phenylether
Concen: 50.818 ng/ul
RT: 15.628 min Scan# 2132
Delta R.T. -0.006 min
Lab File: BP017374.D
Acq: 26 Sep 2023 22:08

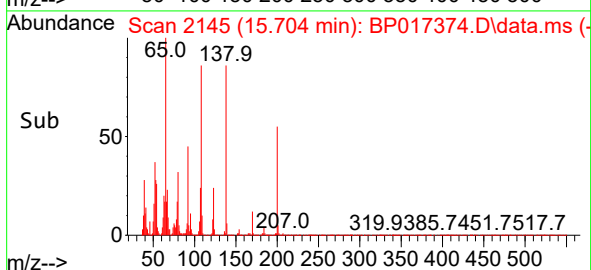
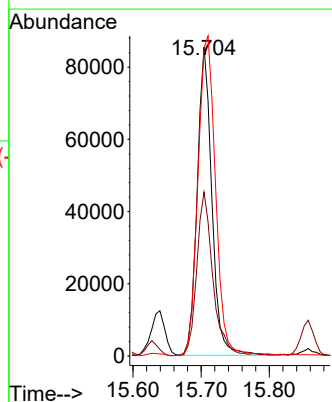
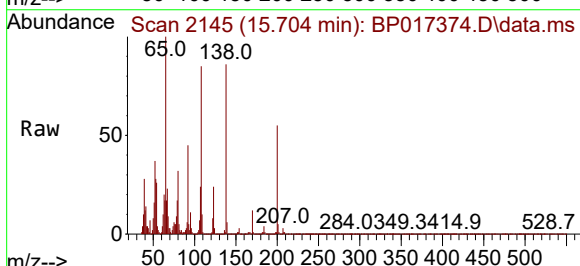
Instrument :
BNA_P
ClientSampleId :
BBHR2MSD

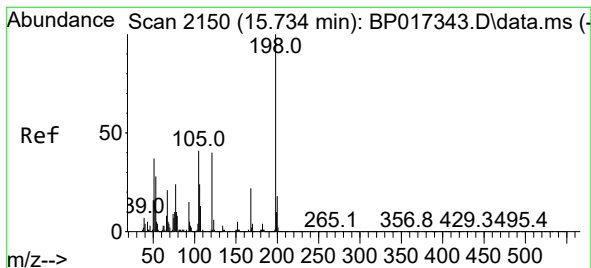
Tgt Ion:204 Resp: 659903
Ion Ratio Lower Upper
204 100
206 32.7 26.2 39.4
141 56.8 45.9 68.9



#63
4-Nitroaniline
Concen: 29.309 ng/ul
RT: 15.704 min Scan# 2145
Delta R.T. -0.000 min
Lab File: BP017374.D
Acq: 26 Sep 2023 22:08

Tgt Ion:138 Resp: 127697
Ion Ratio Lower Upper
138 100
92 53.1 42.4 63.6
108 99.6 73.0 109.6

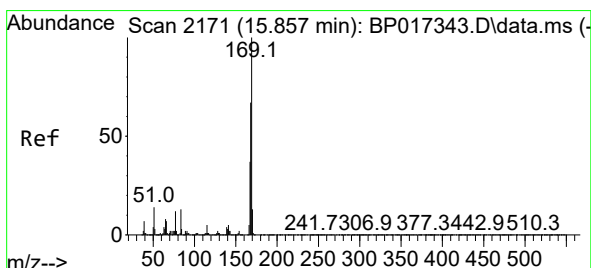
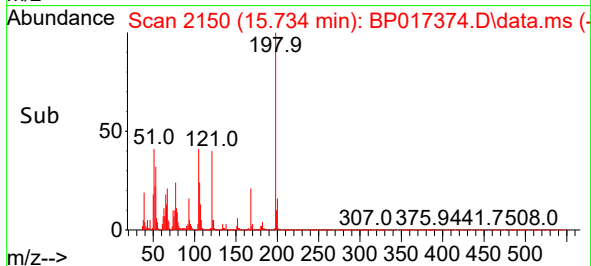
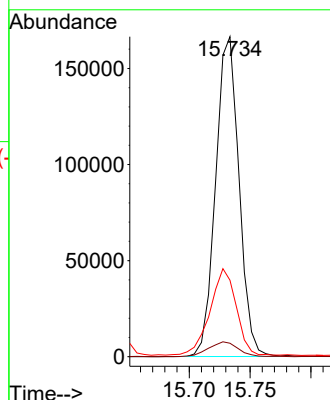
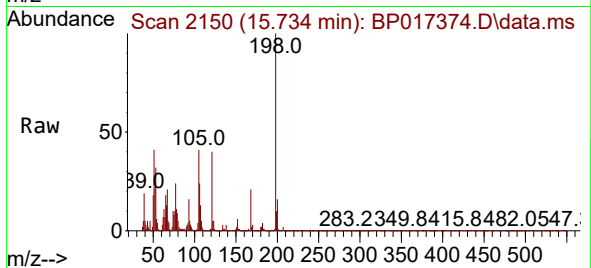




#66
4,6-Dinitro-2-methylphenol
Concen: 46.439 ng/ul
RT: 15.734 min Scan# 2150
Delta R.T. -0.000 min
Lab File: BP017374.D
Acq: 26 Sep 2023 22:08

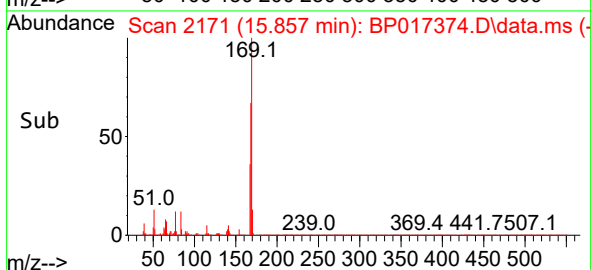
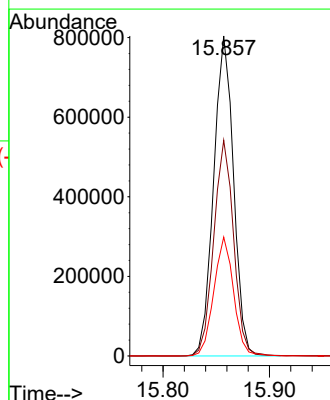
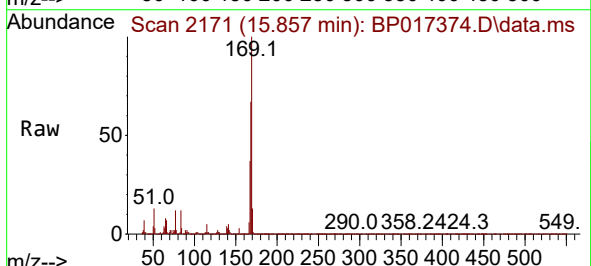
Instrument :
BNA_P
ClientSampleId :
BBHR2MSD

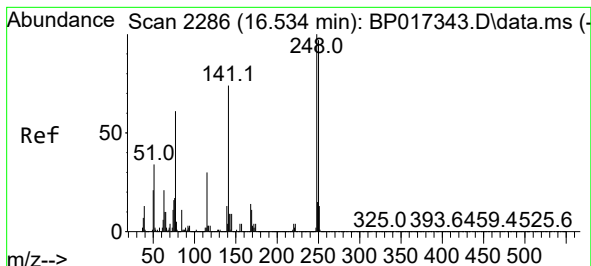
Tgt Ion:198 Resp: 222419
Ion Ratio Lower Upper
198 100
182 4.2 4.3 6.5#
77 23.9 20.4 30.6



#67
N-Nitrosodiphenylamine
Concen: 48.044 ng/ul
RT: 15.857 min Scan# 2171
Delta R.T. -0.000 min
Lab File: BP017374.D
Acq: 26 Sep 2023 22:08

Tgt Ion:169 Resp: 1040982
Ion Ratio Lower Upper
169 100
168 67.4 53.5 80.3
167 37.1 30.0 45.0

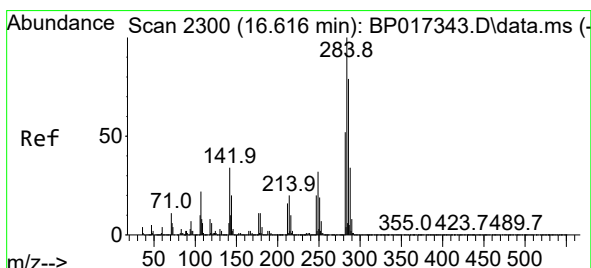
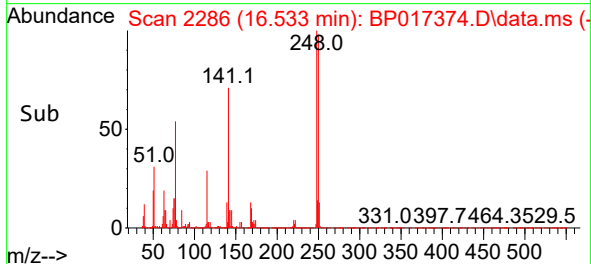
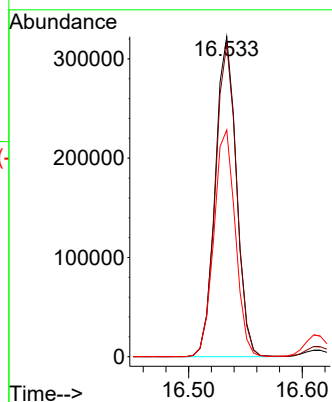
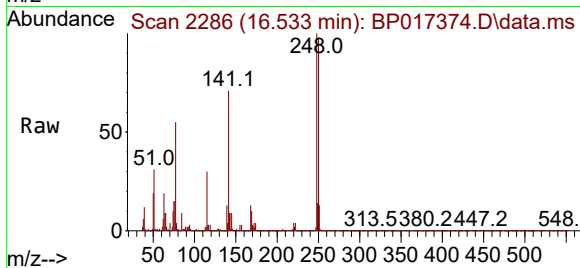




#68
4-Bromophenyl-phenylether
Concen: 52.694 ng/ul
RT: 16.533 min Scan# 21
Delta R.T. -0.000 min
Lab File: BP017374.D
Acq: 26 Sep 2023 22:08

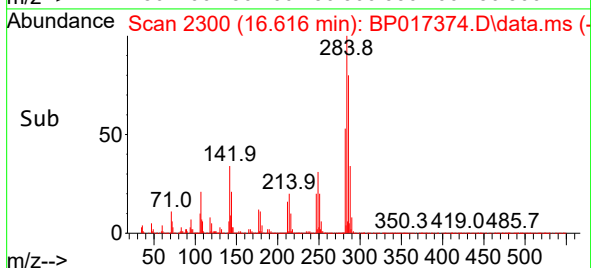
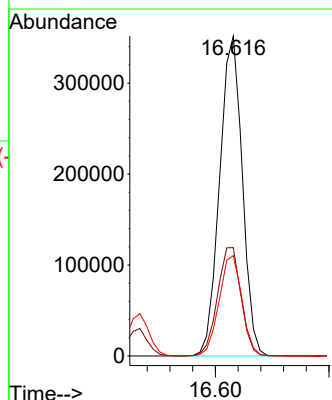
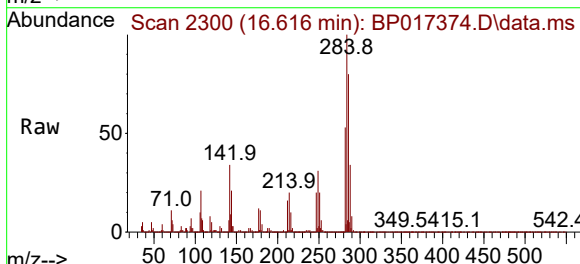
Instrument :
BNA_P
ClientSampleId :
BBHR2MSD

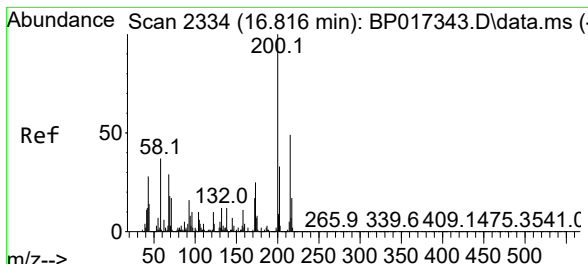
Tgt Ion:248 Resp: 417008
Ion Ratio Lower Upper
248 100
250 97.7 78.6 117.8
141 70.8 56.3 84.5



#69
Hexachlorobenzene
Concen: 53.083 ng/ul
RT: 16.616 min Scan# 2300
Delta R.T. -0.000 min
Lab File: BP017374.D
Acq: 26 Sep 2023 22:08

Tgt Ion:284 Resp: 487463
Ion Ratio Lower Upper
284 100
142 33.8 29.5 44.3
249 31.3 25.7 38.5

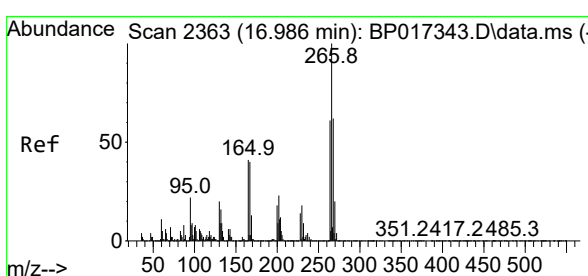
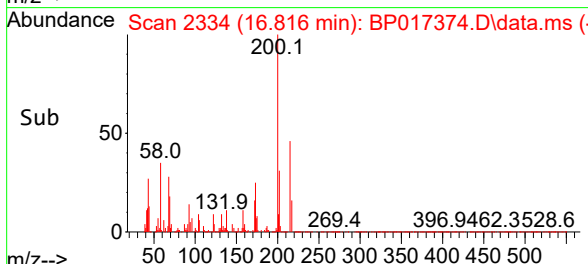
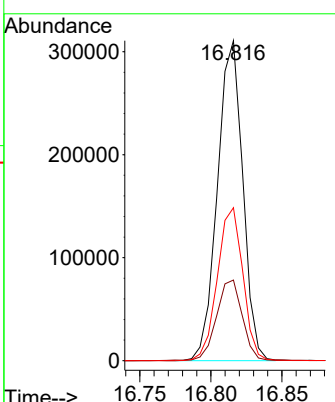
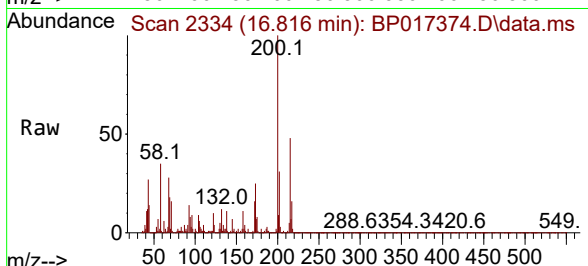




#70
 Atrazine
 Concen: 49.561 ng/ul
 RT: 16.816 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: BP017374.D
 Acq: 26 Sep 2023 22:08

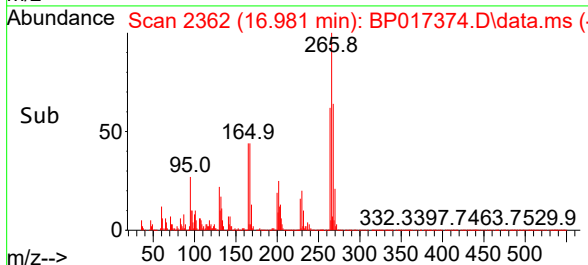
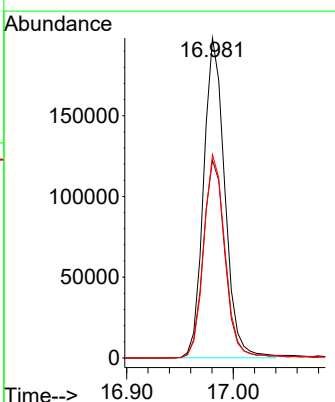
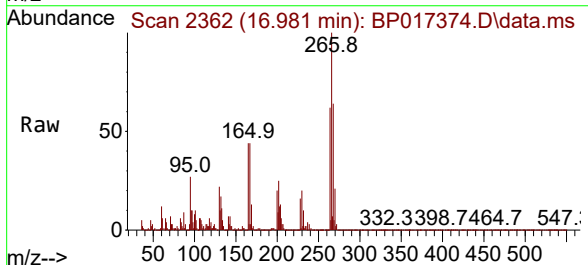
Instrument :
 BNA_P
 ClientSampleId :
 BBHR2MSD

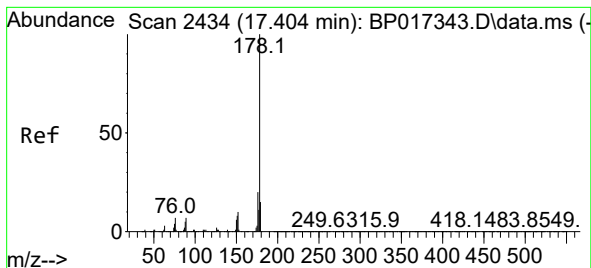
Tgt Ion:	200	Resp:	384734
Ion Ratio	Lower	Upper	
200	100		
173	25.2	20.3	30.5
215	47.8	38.2	57.4



#71
 Pentachlorophenol
 Concen: 48.304 ng/ul
 RT: 16.981 min Scan# 2362
 Delta R.T. -0.006 min
 Lab File: BP017374.D
 Acq: 26 Sep 2023 22:08

Tgt Ion:	266	Resp:	274003
Ion Ratio	Lower	Upper	
266	100		
264	61.7	48.9	73.3
268	63.5	51.6	77.4





#72

Phenanthrene

Concen: 51.167 ng/ul

RT: 17.398 min Scan# 2433

Delta R.T. -0.006 min

Lab File: BP017374.D

Acq: 26 Sep 2023 22:08

Instrument :

BNA_P

ClientSampleId :

BBHR2MSD

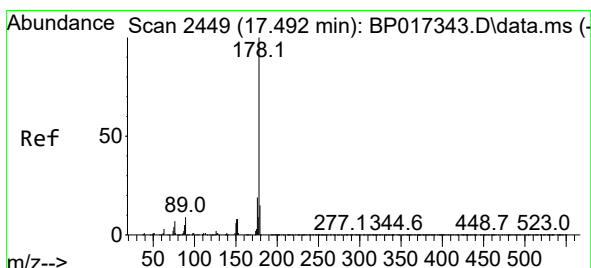
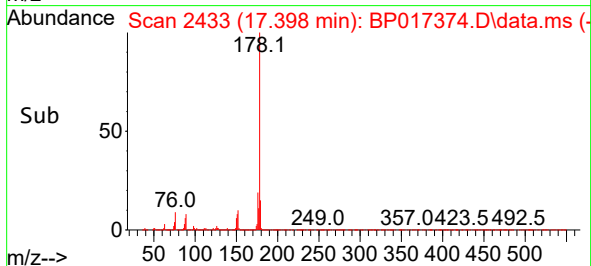
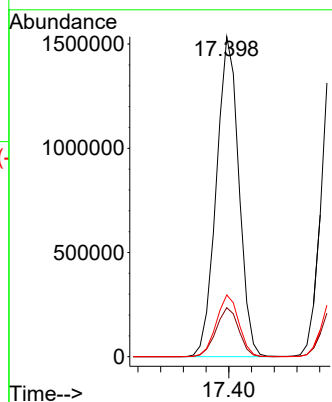
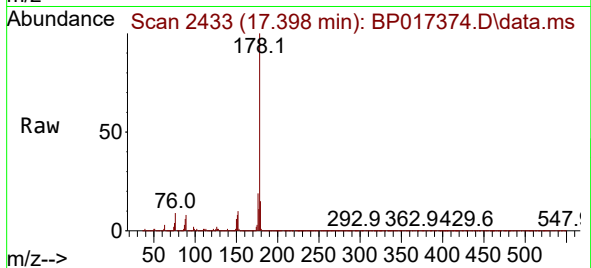
Tgt Ion:178 Resp: 2111069

Ion Ratio Lower Upper

178 100

179 15.3 12.7 19.1

176 19.3 15.8 23.6



#74

Anthracene

Concen: 50.447 ng/ul

RT: 17.492 min Scan# 2449

Delta R.T. -0.000 min

Lab File: BP017374.D

Acq: 26 Sep 2023 22:08

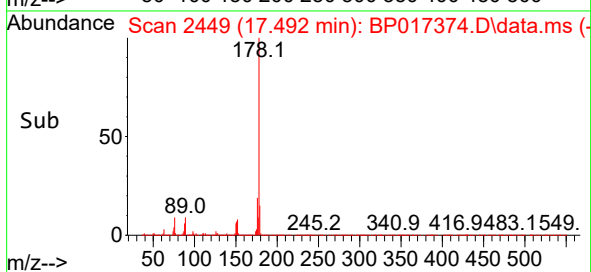
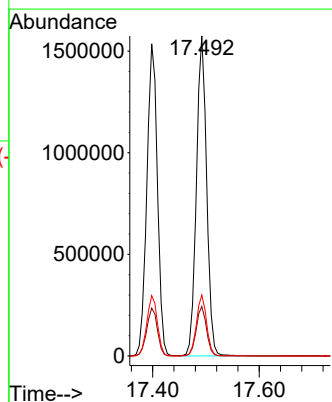
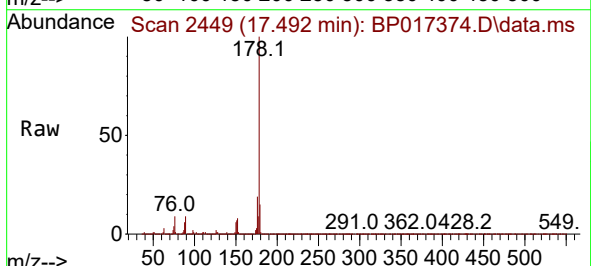
Tgt Ion:178 Resp: 2109441

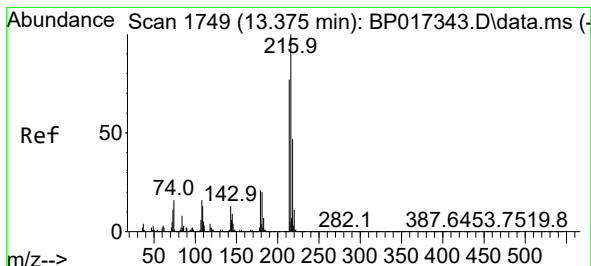
Ion Ratio Lower Upper

178 100

179 15.4 12.5 18.7

176 19.1 15.1 22.7





#75

1,2,3,4-Tetrachlorobenzene

Concen: 42.382 ng/uL

RT: 13.369 min Scan# 11

Delta R.T. -0.006 min

Lab File: BP017374.D

Acq: 26 Sep 2023 22:08

Instrument :

BNA_P

ClientSampleId :

BBHR2MSD

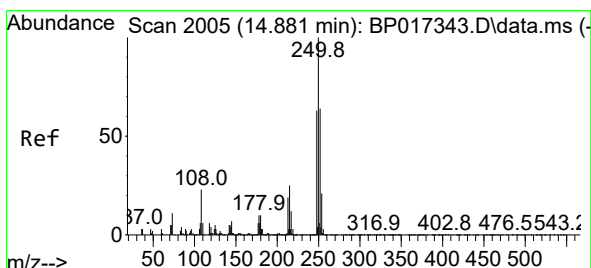
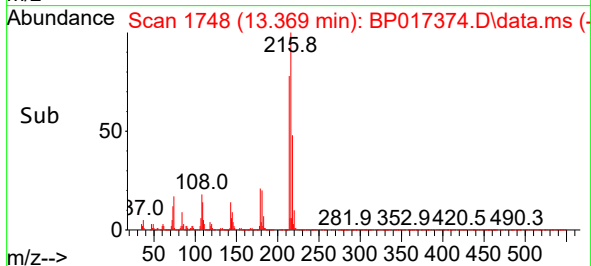
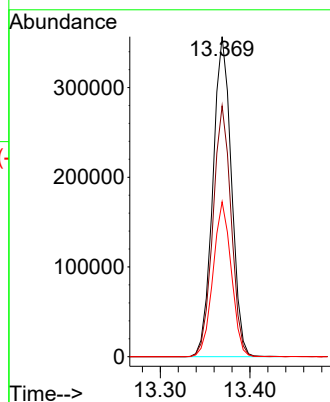
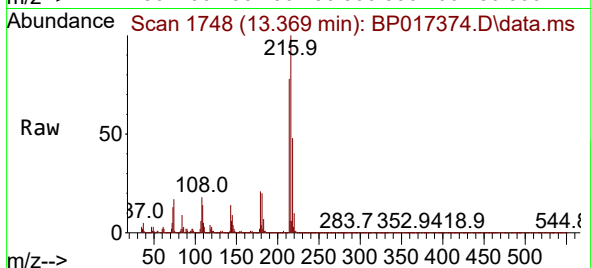
Tgt Ion:216 Resp: 512385

Ion Ratio Lower Upper

216 100

214 78.4 61.2 91.8

218 48.4 36.8 55.2



#76

Pentachlorobenzene

Concen: 44.053 ng/uL

RT: 14.875 min Scan# 2004

Delta R.T. -0.006 min

Lab File: BP017374.D

Acq: 26 Sep 2023 22:08

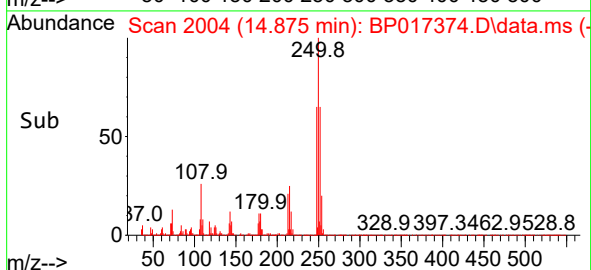
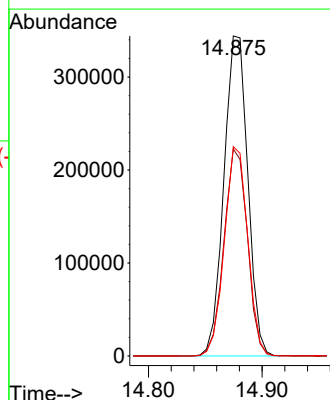
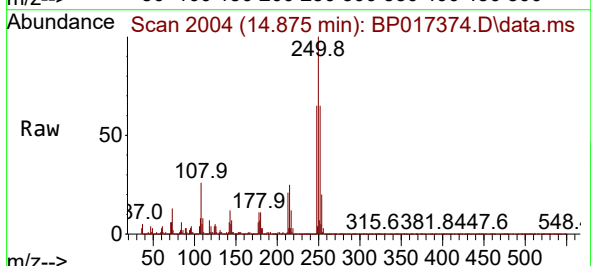
Tgt Ion:250 Resp: 503103

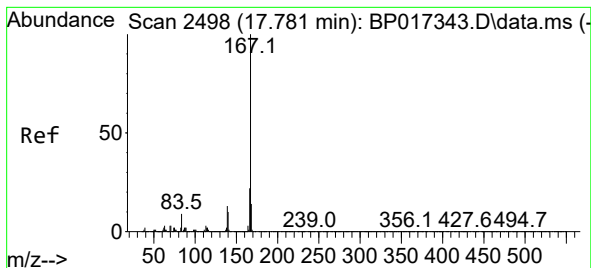
Ion Ratio Lower Upper

250 100

248 64.7 50.1 75.1

252 65.4 52.2 78.2





#77

Carbazole

Concen: 52.044 ng/ul

RT: 17.780 min Scan# 2498

Delta R.T. -0.000 min

Lab File: BP017374.D

Acq: 26 Sep 2023 22:08

Instrument :

BNA_P

ClientSampleId :

BBHR2MSD

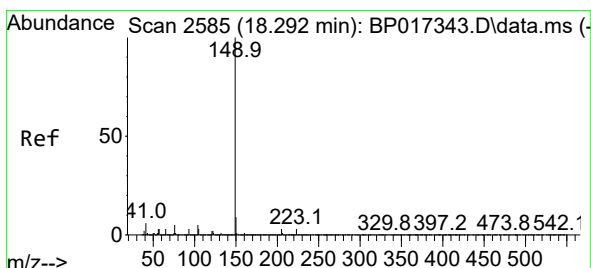
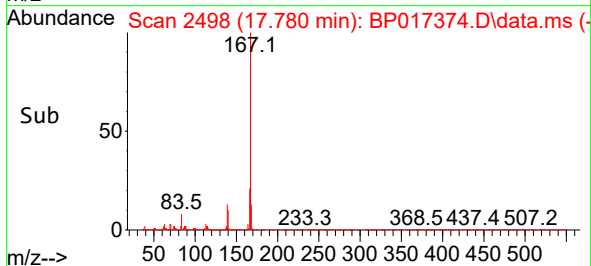
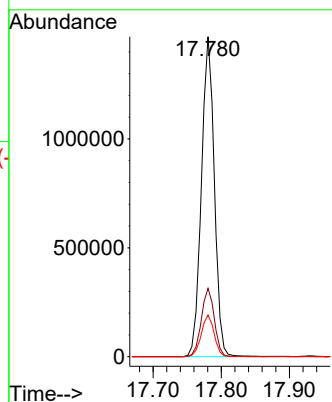
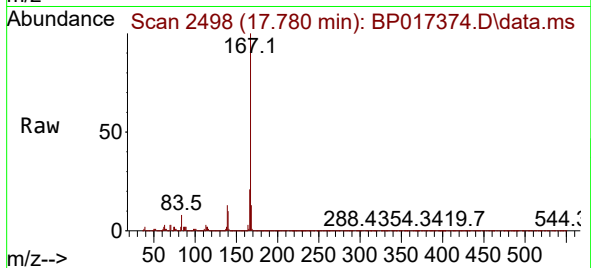
Tgt Ion:167 Resp: 1935658

Ion Ratio Lower Upper

167 100

166 21.4 16.5 24.7

139 13.0 10.5 15.7



#78

Di-n-butylphthalate

Concen: 59.313 ng/ul

RT: 18.286 min Scan# 2584

Delta R.T. -0.006 min

Lab File: BP017374.D

Acq: 26 Sep 2023 22:08

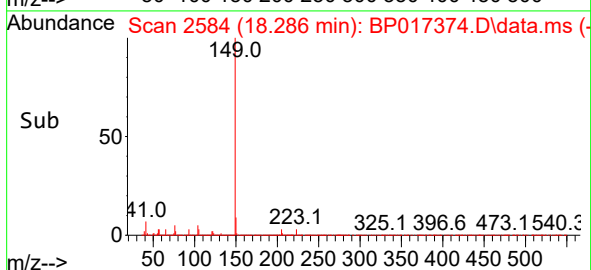
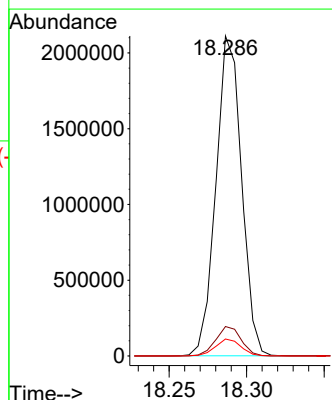
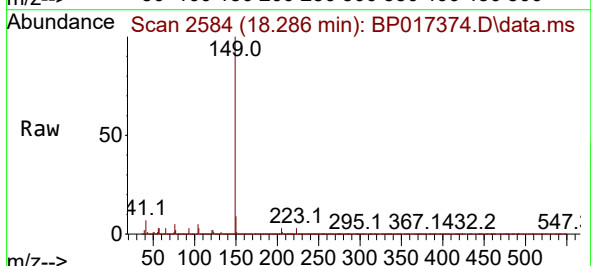
Tgt Ion:149 Resp: 2425776

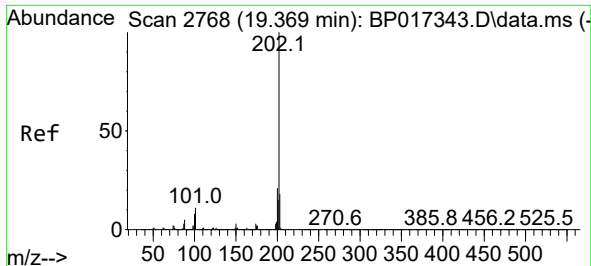
Ion Ratio Lower Upper

149 100

150 9.2 7.5 11.3

104 5.3 4.5 6.7

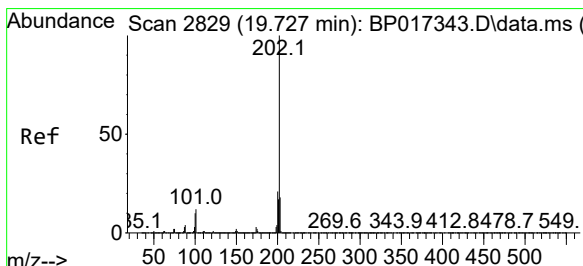
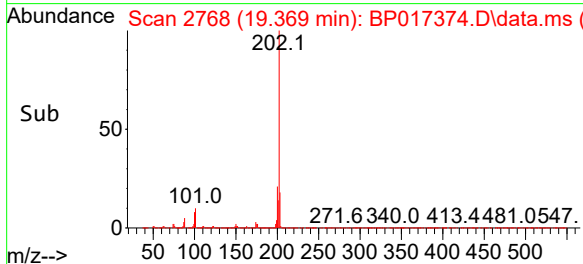
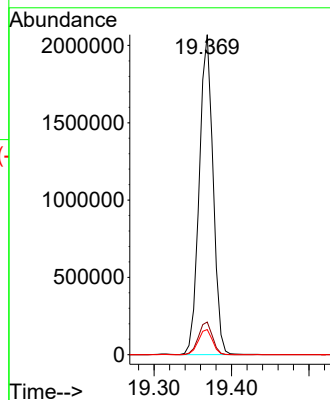
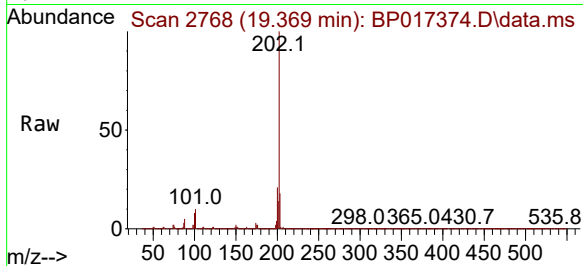




#80
Fluoranthene
Concen: 53.857 ng/ul
RT: 19.369 min Scan# 21
Delta R.T. -0.000 min
Lab File: BP017374.D
Acq: 26 Sep 2023 22:08

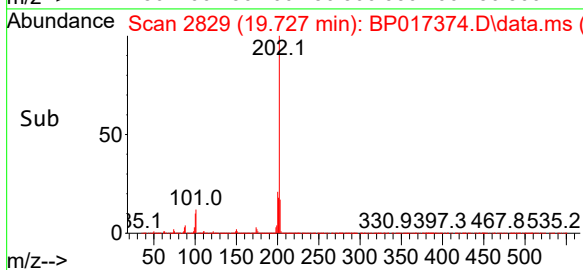
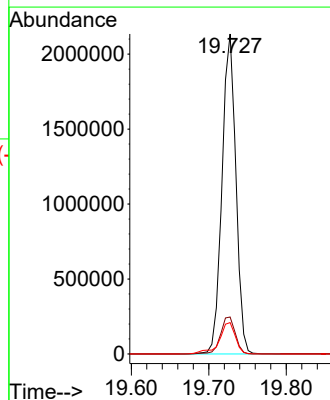
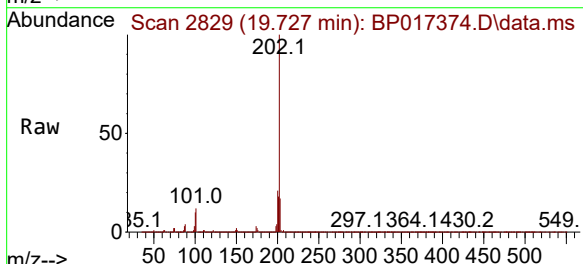
Instrument :
BNA_P
ClientSampleId :
BBHR2MSD

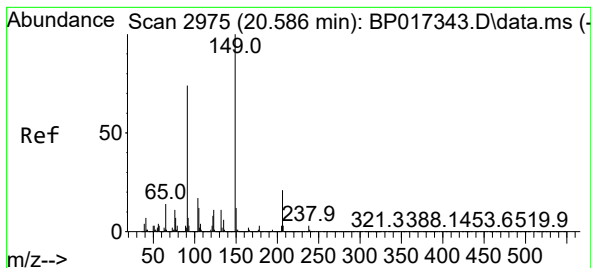
Tgt Ion:202 Resp: 2558726
Ion Ratio Lower Upper
202 100
101 10.2 8.4 12.6
100 7.9 6.6 10.0



#82
Pyrene
Concen: 52.538 ng/ul
RT: 19.727 min Scan# 2829
Delta R.T. -0.000 min
Lab File: BP017374.D
Acq: 26 Sep 2023 22:08

Tgt Ion:202 Resp: 2653453
Ion Ratio Lower Upper
202 100
101 11.5 9.8 14.8
100 9.8 8.1 12.1





#83

Butylbenzylphthalate

Concen: 61.380 ng/ul

RT: 20.586 min Scan# 2975

Delta R.T. -0.000 min

Lab File: BP017374.D

Acq: 26 Sep 2023 22:08

Instrument :

BNA_P

ClientSampleId :

BBHR2MSD

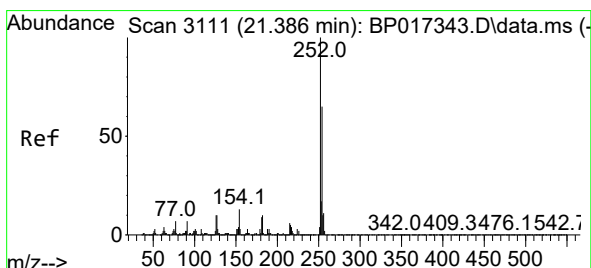
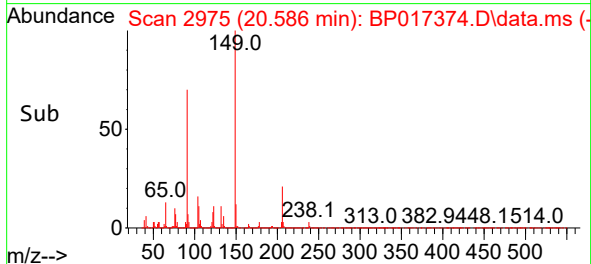
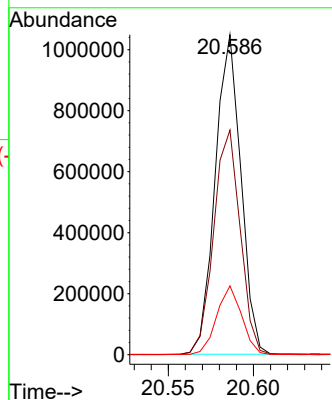
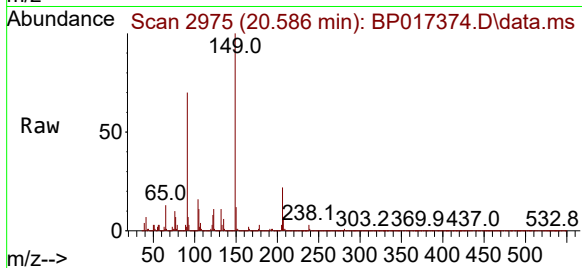
Tgt Ion:149 Resp: 1099167

Ion Ratio Lower Upper

149 100

91 70.2 59.8 89.6

206 21.5 15.7 23.5



#84

3,3'-Dichlorobenzidine

Concen: 22.784 ng/ul

RT: 21.380 min Scan# 3110

Delta R.T. -0.006 min

Lab File: BP017374.D

Acq: 26 Sep 2023 22:08

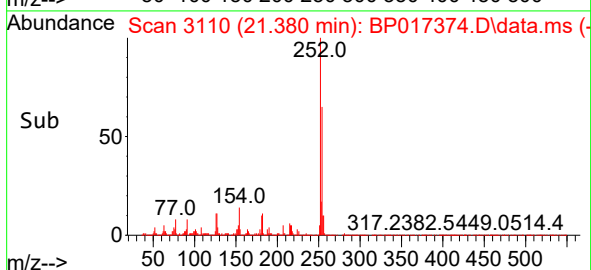
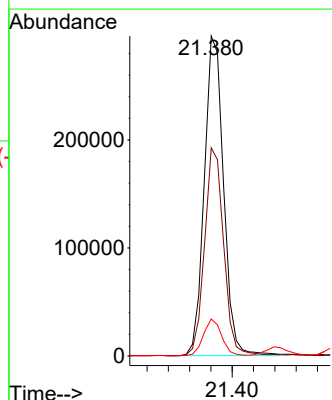
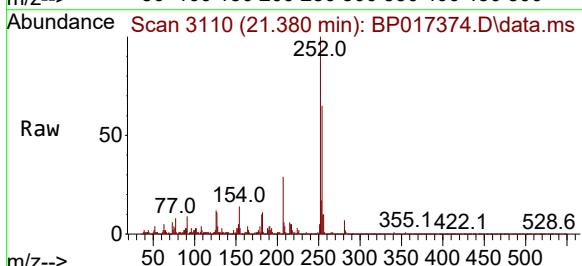
Tgt Ion:252 Resp: 372914

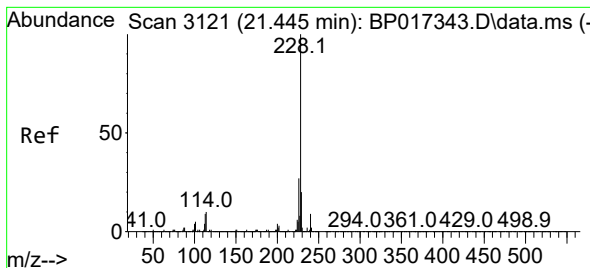
Ion Ratio Lower Upper

252 100

254 65.0 51.9 77.9

126 11.6 9.1 13.7





#85

Benzo(a)anthracene

Concen: 53.238 ng/ul

RT: 21.445 min Scan# 3121

Delta R.T. -0.000 min

Lab File: BP017374.D

Acq: 26 Sep 2023 22:08

Instrument :

BNA_P

ClientSampleId :

BBHR2MSD

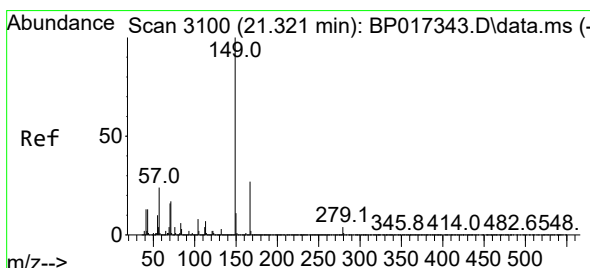
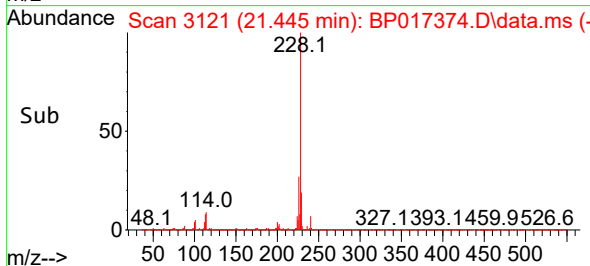
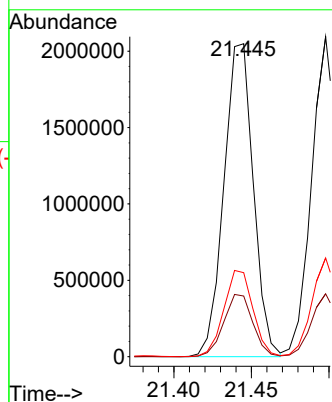
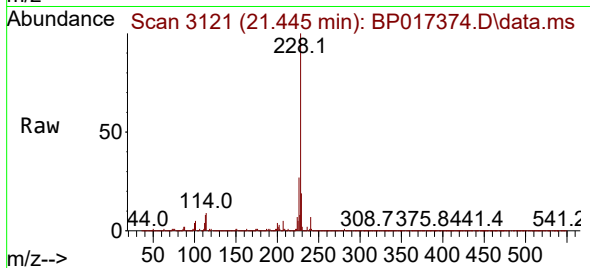
Tgt Ion:228 Resp: 2706727

Ion Ratio Lower Upper

228 100

229 19.4 15.8 23.6

226 26.8 21.8 32.8



#86

Bis(2-ethylhexyl)phthalate

Concen: 62.983 ng/ul

RT: 21.316 min Scan# 3099

Delta R.T. -0.006 min

Lab File: BP017374.D

Acq: 26 Sep 2023 22:08

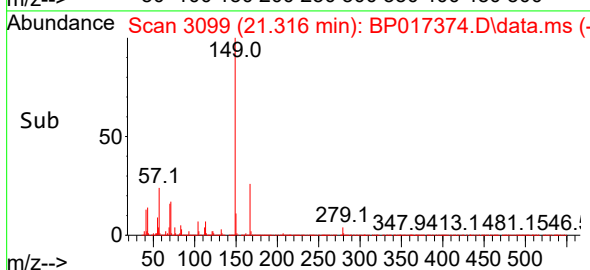
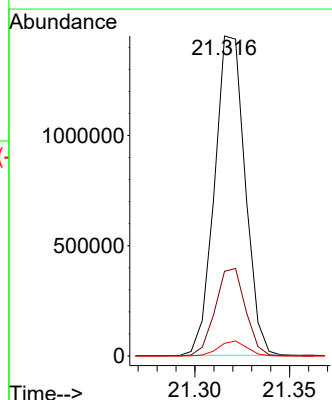
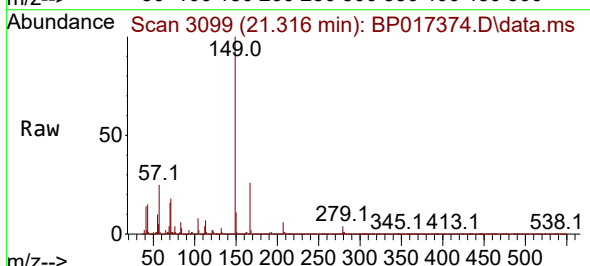
Tgt Ion:149 Resp: 1628850

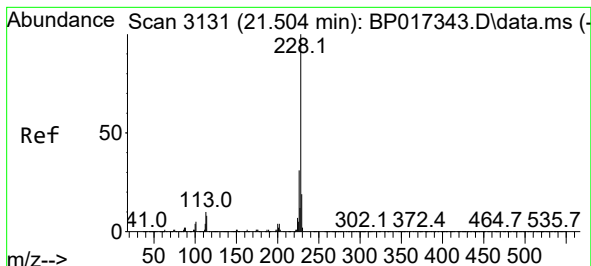
Ion Ratio Lower Upper

149 100

167 26.5 21.0 31.6

279 3.9 3.0 4.4





#87

Chrysene

Concen: 52.928 ng/ul

RT: 21.498 min Scan# 3131

Delta R.T. -0.006 min

Lab File: BP017374.D

Acq: 26 Sep 2023 22:08

Instrument :

BNA_P

ClientSampleId :

BBHR2MSD

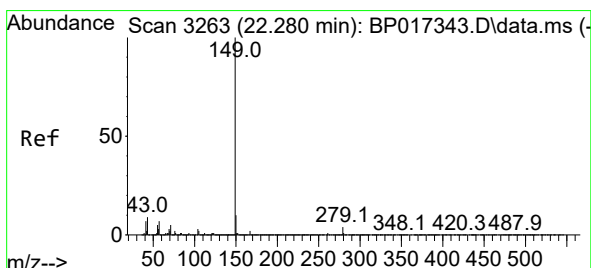
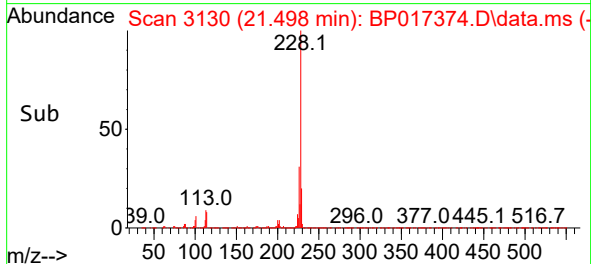
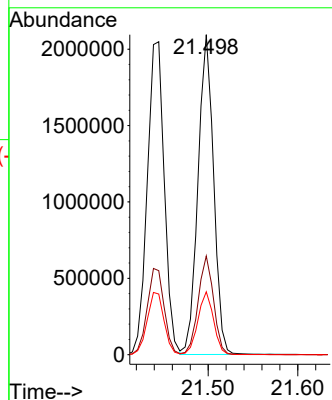
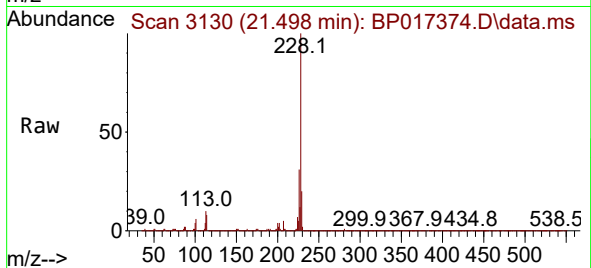
Tgt Ion:228 Resp: 2532535

Ion Ratio Lower Upper

228 100

226 30.8 24.1 36.1

229 19.7 15.0 22.6



#89

Di-n-octyl phthalate

Concen: 62.102 ng/ul

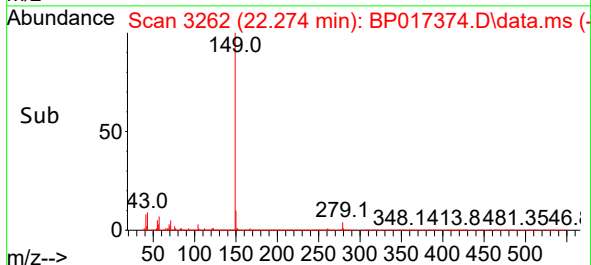
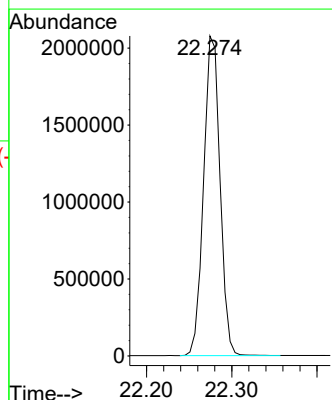
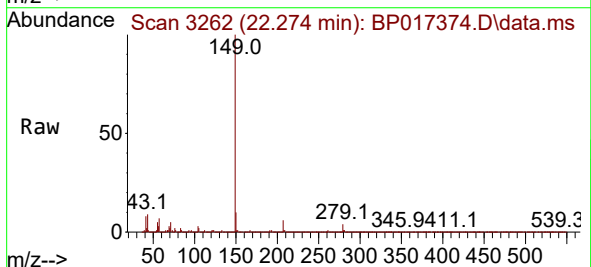
RT: 22.274 min Scan# 3262

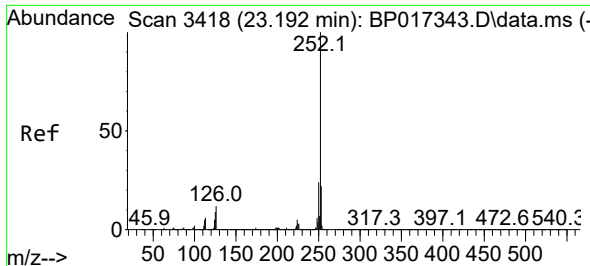
Delta R.T. -0.006 min

Lab File: BP017374.D

Acq: 26 Sep 2023 22:08

Tgt Ion:149 Resp: 2775387

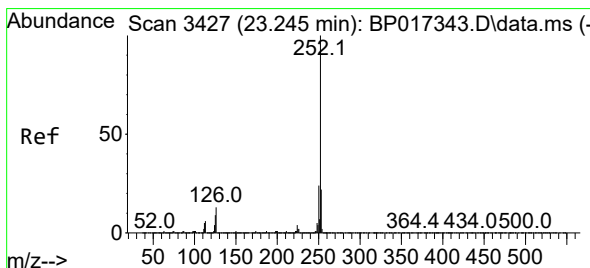
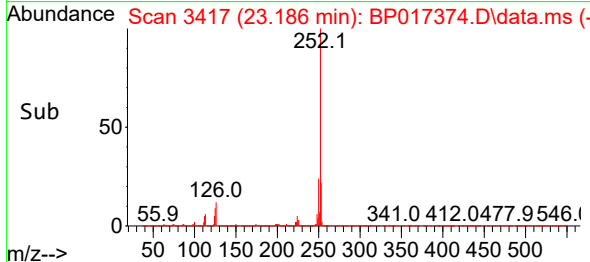
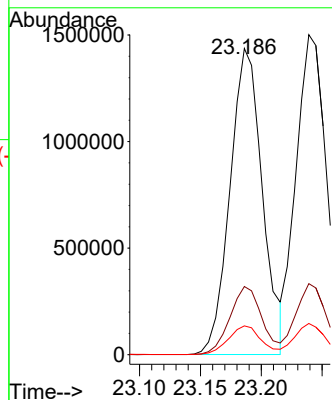
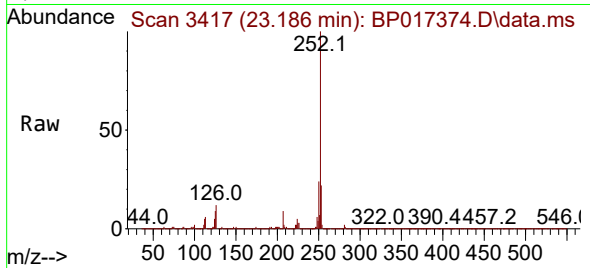




#90
Benzo(b)fluoranthene
Concen: 55.473 ng/ul
RT: 23.186 min Scan# 3418
Delta R.T. -0.006 min
Lab File: BP017374.D
Acq: 26 Sep 2023 22:08

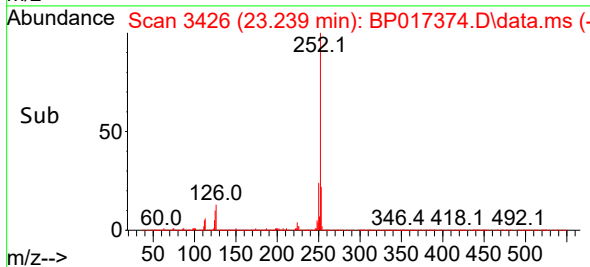
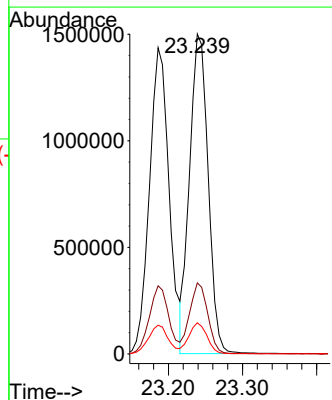
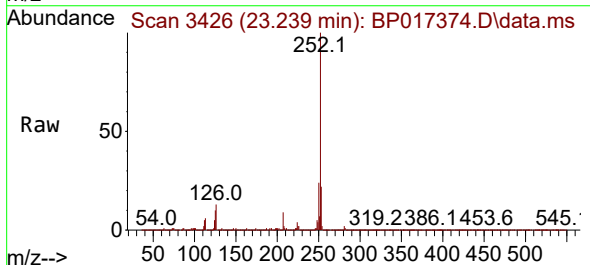
Instrument :
BNA_P
ClientSampleId :
BBHR2MSD

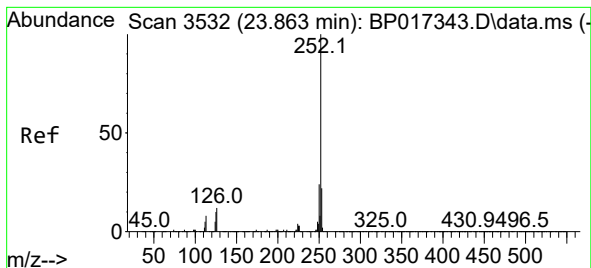
Tgt Ion:252 Resp: 2657189
Ion Ratio Lower Upper
252 100
253 22.3 17.4 26.0
125 9.4 7.8 11.8



#91
Benzo(k)fluoranthene
Concen: 54.055 ng/ul
RT: 23.239 min Scan# 3426
Delta R.T. -0.006 min
Lab File: BP017374.D
Acq: 26 Sep 2023 22:08

Tgt Ion:252 Resp: 2612292
Ion Ratio Lower Upper
252 100
253 22.2 17.9 26.9
125 9.8 7.8 11.6





#93

Benzo(a)pyrene

Concen: 53.139 ng/ul

RT: 23.857 min Scan# 3

Delta R.T. -0.006 min

Lab File: BP017374.D

Acq: 26 Sep 2023 22:08

Instrument :

BNA_P

ClientSampleId :

BBHR2MSD

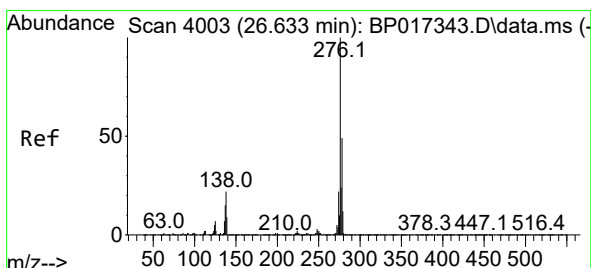
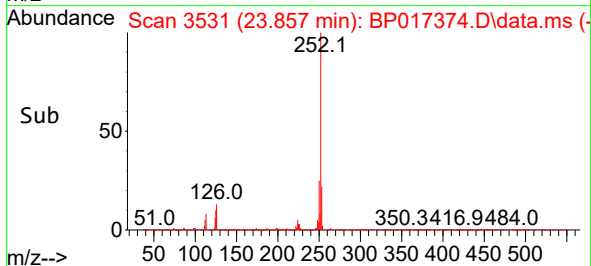
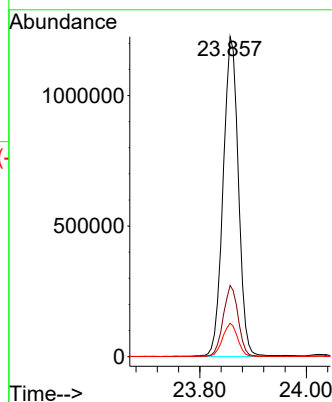
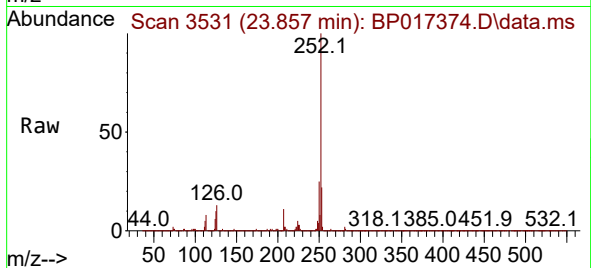
Tgt Ion:252 Resp: 2435387

Ion Ratio Lower Upper

252 100

253 22.3 17.4 26.0

125 10.5 8.9 13.3



#94

Indeno(1,2,3-cd)pyrene

Concen: 52.395 ng/ul

RT: 26.627 min Scan# 4002

Delta R.T. -0.006 min

Lab File: BP017374.D

Acq: 26 Sep 2023 22:08

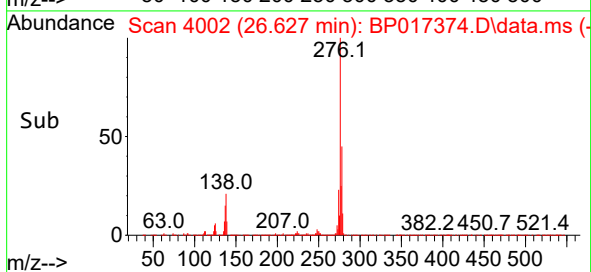
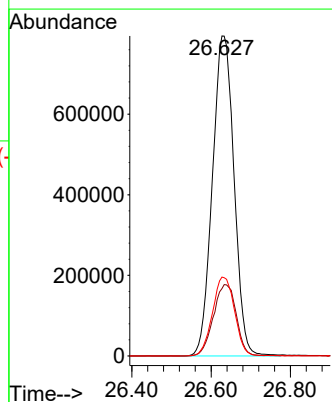
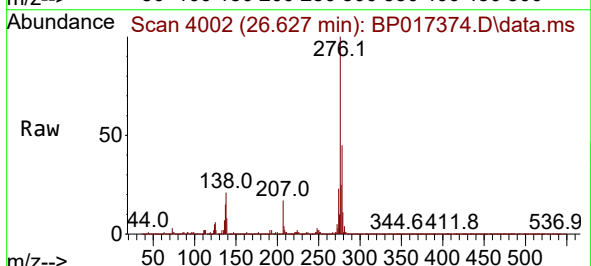
Tgt Ion:276 Resp: 3009879

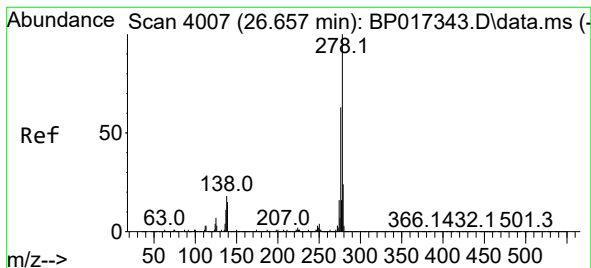
Ion Ratio Lower Upper

276 100

138 21.1 17.9 26.9

277 24.7 19.5 29.3





#95

Dibenzo(a,h)anthracene

Concen: 52.444 ng/ul

RT: 26.651 min Scan# 4007

Delta R.T. -0.006 min

Lab File: BP017374.D

Acq: 26 Sep 2023 22:08

Instrument :

BNA_P

ClientSampleId :

BBHR2MSD

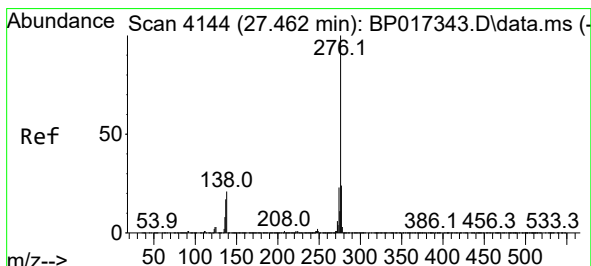
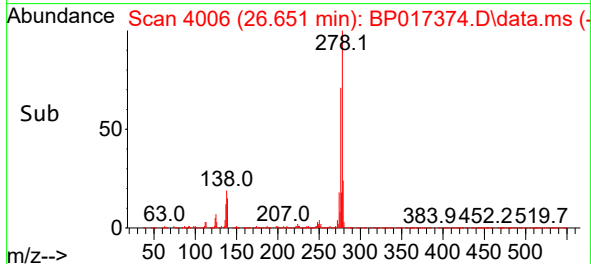
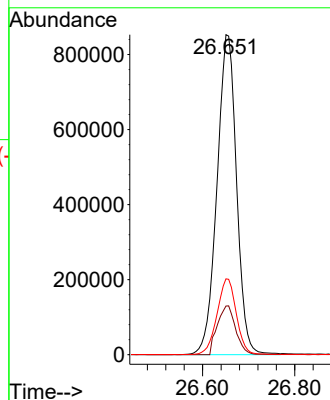
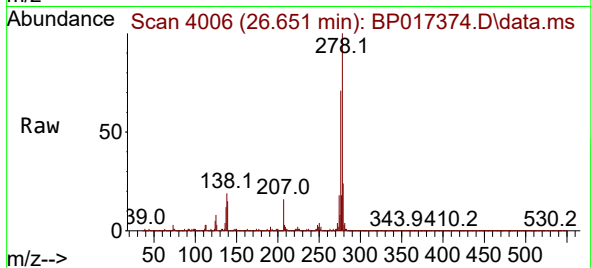
Tgt Ion:278 Resp: 2509298

Ion Ratio Lower Upper

278 100

139 15.2 13.4 20.0

279 23.7 19.5 29.3



#96

Benzo(g,h,i)perylene

Concen: 51.410 ng/ul

RT: 27.462 min Scan# 4144

Delta R.T. -0.000 min

Lab File: BP017374.D

Acq: 26 Sep 2023 22:08

Tgt Ion:276 Resp: 2381610

Ion Ratio Lower Upper

276 100

138 19.9 17.3 25.9

277 23.2 18.8 28.2

