

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060525\
 Data File : BF142627.D
 Acq On : 05 Jun 2025 11:35
 Operator : RC/JU
 Sample : Q2181-02
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 38073-032124

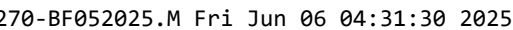
Quant Time: Jun 05 12:03:44 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue May 20 16:26:47 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.898	152	109688	20.000	ng	0.00
21) Naphthalene-d8	8.181	136	418247	20.000	ng	0.00
39) Acenaphthene-d10	9.933	164	223750	20.000	ng	-0.01
64) Phenanthrene-d10	11.428	188	374727	20.000	ng	0.00
76) Chrysene-d12	14.069	240	200432	20.000	ng	0.00
86) Perylene-d12	15.563	264	211446	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.516	112	887804	136.363	ng	0.00
7) Phenol-d6	6.528	99	1093853	139.571	ng	0.00
23) Nitrobenzene-d5	7.457	82	666482	86.892	ng	-0.02
42) 2,4,6-Tribromophenol	10.728	330	363560	146.399	ng	-0.01
45) 2-Fluorobiphenyl	9.257	172	1417378	85.002	ng	-0.01
79) Terphenyl-d14	13.010	244	1253425	85.458	ng	0.00
Target Compounds						Qvalue
8) 2-Chlorophenol	6.681	128	593854	83.742	ng	99
10) Phenol	6.545	94	982073	111.365	ng	94
17) 2-Methylphenol	7.140	107	237778	42.946	ng	98
20) 3+4-Methylphenols	7.304	107	571942	80.667	ng	# 57
26) 2-Nitrophenol	7.798	139	240475	65.056	ng	95
27) 2,4-Dimethylphenol	7.828	122	298155	45.738	ng	98
29) 2,4-Dichlorophenol	8.034	162	580208	97.872	ng	99
36) 4-Chloro-3-methylphenol	8.722	107	658201	108.337	ng	99
43) 2,4,6-Trichlorophenol	9.210	196	699257	161.451	ng	98
44) 2,4,5-Trichlorophenol	9.210	196	699257	153.086	ng	98
54) 2,4-Dinitrophenol	9.998	184	259674	157.736	ng	92
56) 4-Nitrophenol	10.051	139	281796	109.733	ng	97
59) 2,3,4,6-Tetrachlorophenol	10.263	232	320299	83.997	ng	99
65) 4,6-Dinitro-2-methylph...	10.533	198	333642	159.541	ng	97
70) Pentachlorophenol	11.227	266	195305	70.588	ng	98

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

Quant Time: Jun 05 12:03:44 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
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QLast Update : Tue May 20 16:26:47 2025
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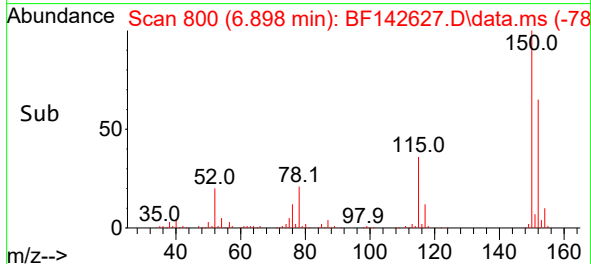
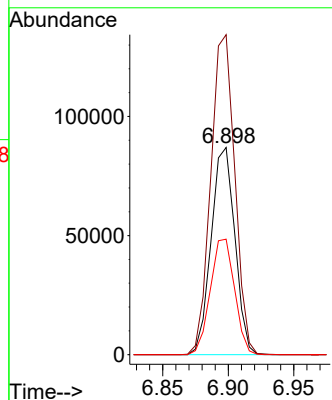
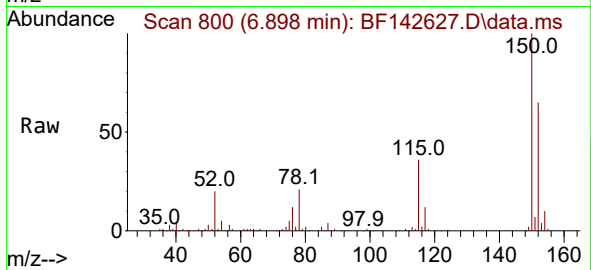




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.898 min Scan# 800
 Delta R.T. -0.006 min
 Lab File: BF142627.D
 Acq: 05 Jun 2025 11:35

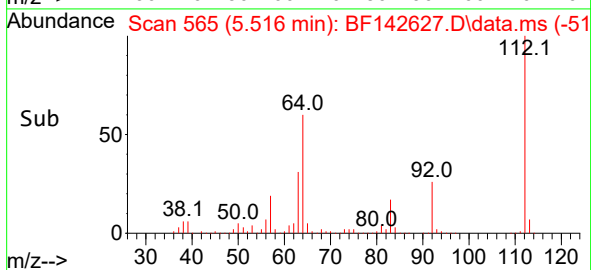
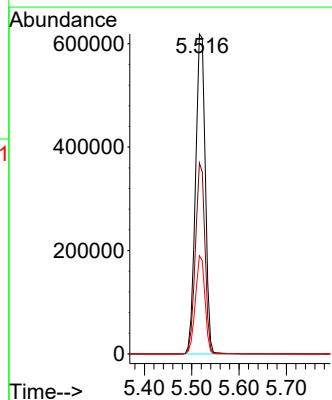
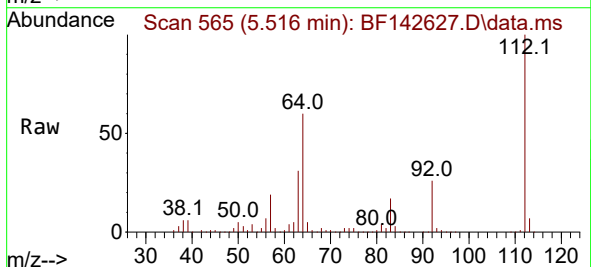
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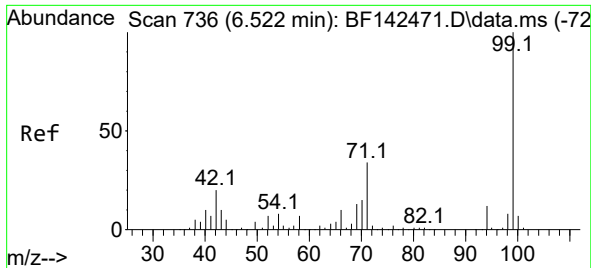
Tgt Ion:152 Resp: 109688
 Ion Ratio Lower Upper
 152 100
 150 154.4 128.2 192.4
 115 55.7 48.3 72.5



#5
 2-Fluorophenol
 Concen: 136.363 ng
 RT: 5.516 min Scan# 565
 Delta R.T. 0.000 min
 Lab File: BF142627.D
 Acq: 05 Jun 2025 11:35

Tgt Ion:112 Resp: 887804
 Ion Ratio Lower Upper
 112 100
 64 59.7 47.5 71.3
 63 30.7 24.9 37.3

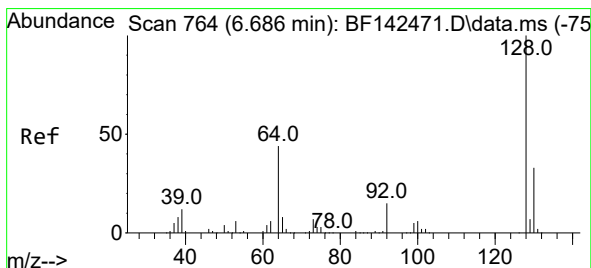
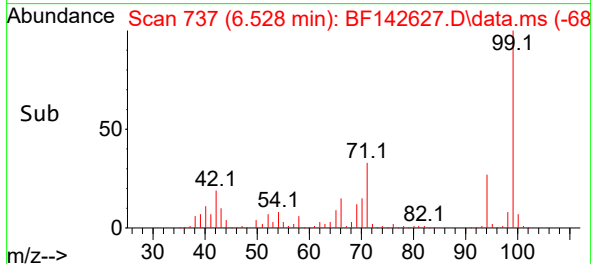
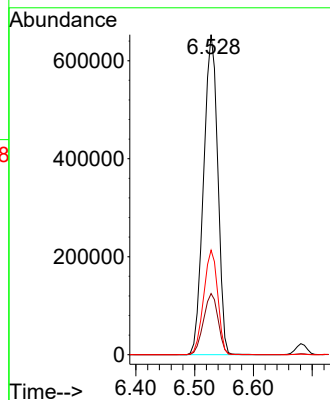
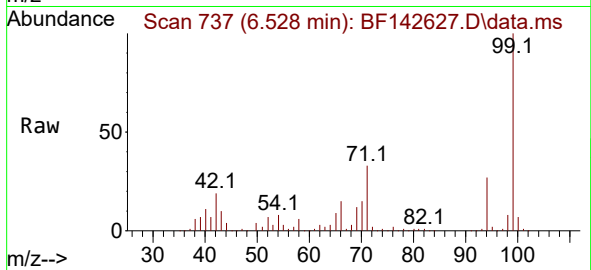




#7
Phenol-d6
Concen: 139.571 ng
RT: 6.528 min Scan# 71
Delta R.T. -0.006 min
Lab File: BF142627.D
Acq: 05 Jun 2025 11:35

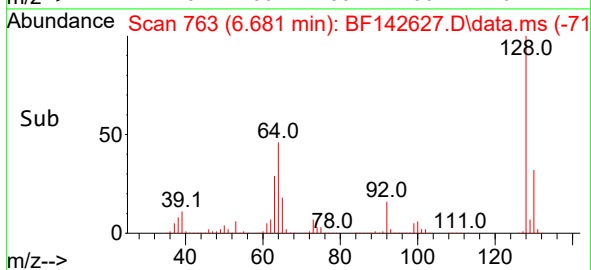
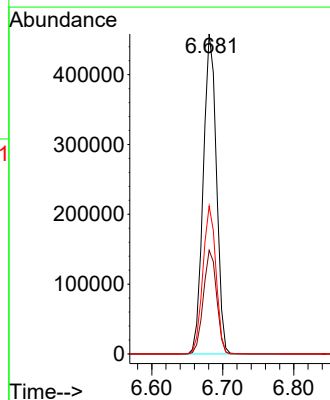
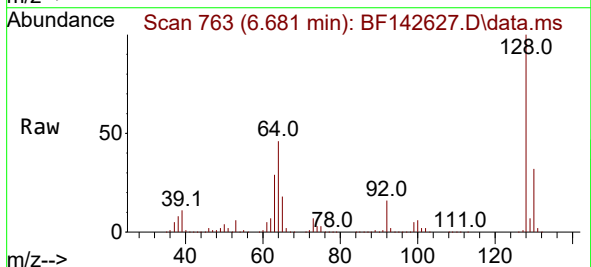
Instrument :
BNA_F
ClientSampleId :
38073-032124

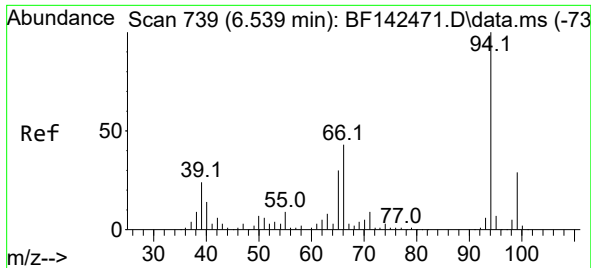
Tgt Ion: 99 Resp: 1093853
Ion Ratio Lower Upper
99 100
42 19.1 16.2 24.2
71 32.7 27.3 40.9



#8
2-Chlorophenol
Concen: 83.742 ng
RT: 6.681 min Scan# 763
Delta R.T. -0.006 min
Lab File: BF142627.D
Acq: 05 Jun 2025 11:35

Tgt Ion:128 Resp: 593854
Ion Ratio Lower Upper
128 100
130 32.4 12.6 52.6
64 46.2 25.1 65.1





#10

Phenol

Concen: 111.365 ng

RT: 6.545 min Scan# 740

Delta R.T. -0.006 min

Lab File: BF142627.D

Acq: 05 Jun 2025 11:35

Instrument :

BNA_F

ClientSampleId :

38073-032124

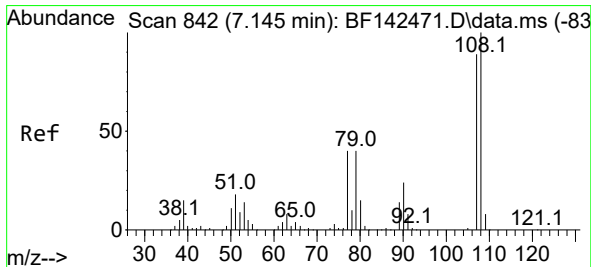
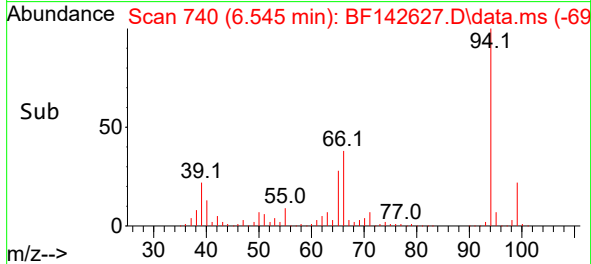
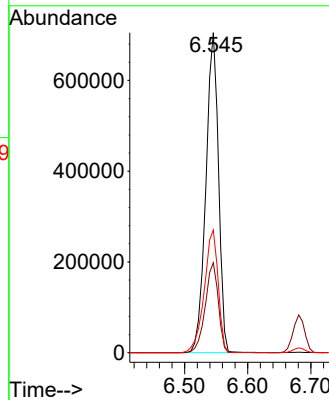
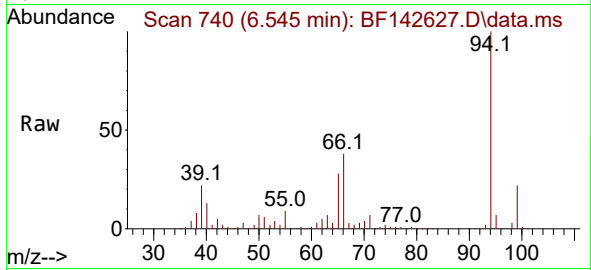
Tgt Ion: 94 Resp: 982073

Ion Ratio Lower Upper

94 100

65 28.1 10.3 50.3

66 38.3 22.6 62.6



#17

2-Methylphenol

Concen: 42.946 ng

RT: 7.140 min Scan# 841

Delta R.T. -0.012 min

Lab File: BF142627.D

Acq: 05 Jun 2025 11:35

Tgt Ion: 107 Resp: 237778

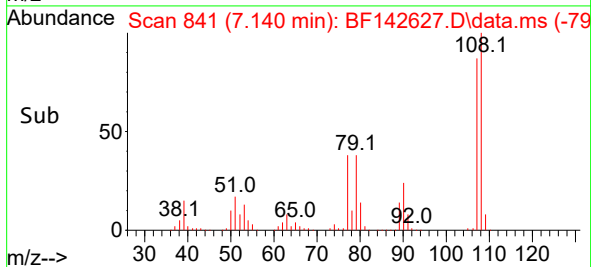
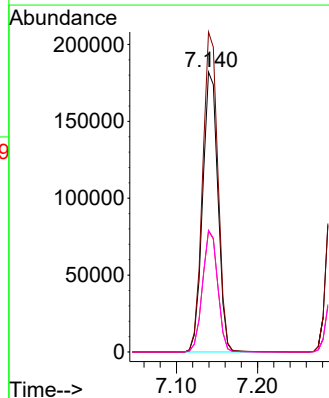
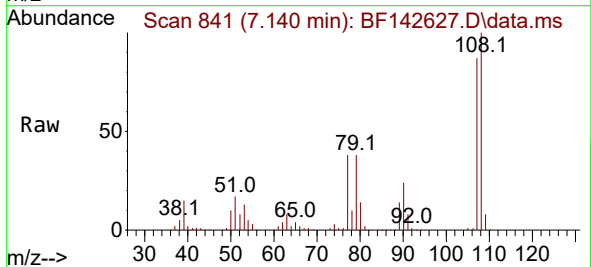
Ion Ratio Lower Upper

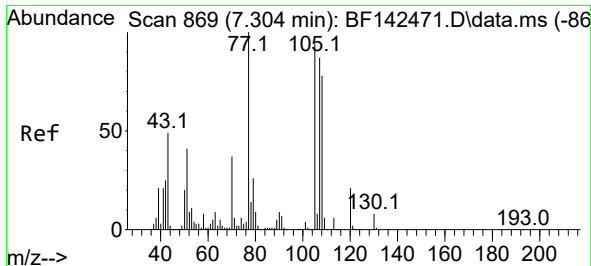
107 100

108 114.3 90.2 135.2

77 43.2 36.1 54.1

79 43.5 36.2 54.4

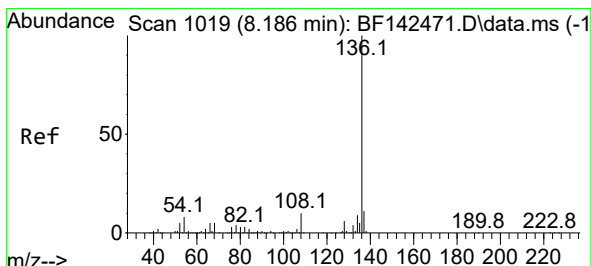
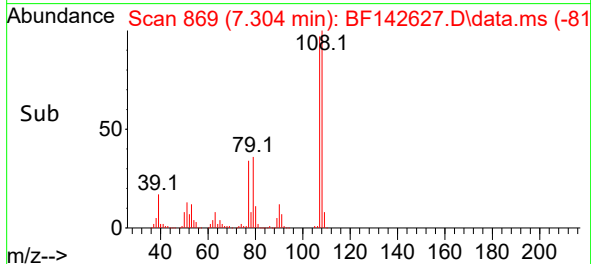
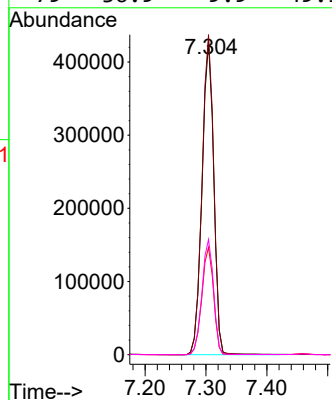
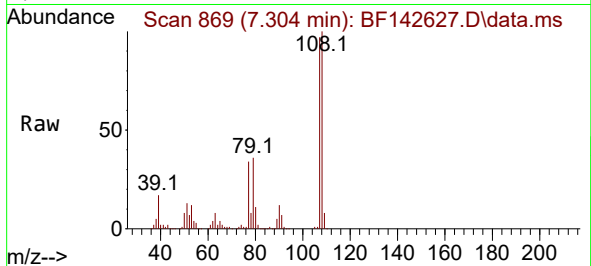




#20
3+4-Methylphenols
Concen: 80.667 ng
RT: 7.304 min Scan# 80
Delta R.T. -0.006 min
Lab File: BF142627.D
Acq: 05 Jun 2025 11:35

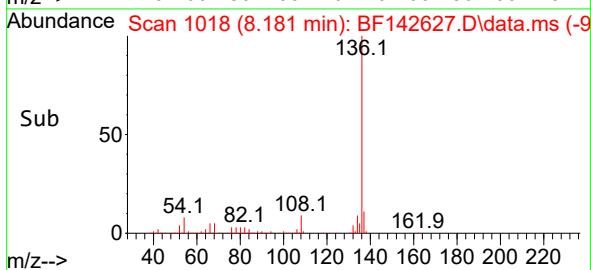
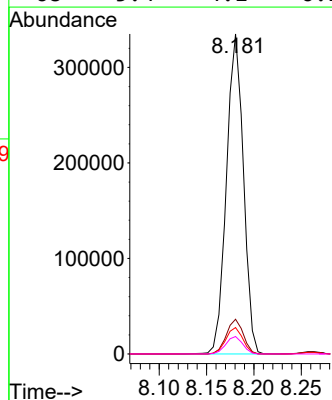
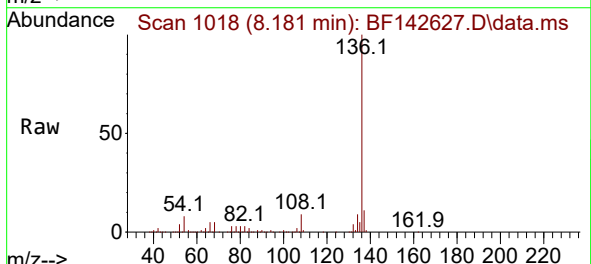
Instrument :
BNA_F
ClientSampleId :
38073-032124

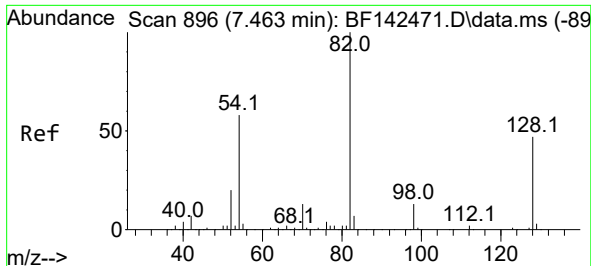
Tgt Ion:107	Resp:	571942
Ion	Ratio	Lower Upper
107	100	
108	102.6	70.4 110.4
77	34.4	95.4 135.4#
79	36.9	9.9 49.9



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.181 min Scan# 1018
Delta R.T. -0.006 min
Lab File: BF142627.D
Acq: 05 Jun 2025 11:35

Tgt Ion:136	Resp:	418247
Ion	Ratio	Lower Upper
136	100	
137	10.9	8.6 13.0
54	8.2	6.6 10.0
68	5.4	4.1 6.1





#23

Nitrobenzene-d5

Concen: 86.892 ng

RT: 7.457 min Scan# 896

Delta R.T. -0.017 min

Lab File: BF142627.D

Acq: 05 Jun 2025 11:35

Instrument :

BNA_F

ClientSampleId :

38073-032124

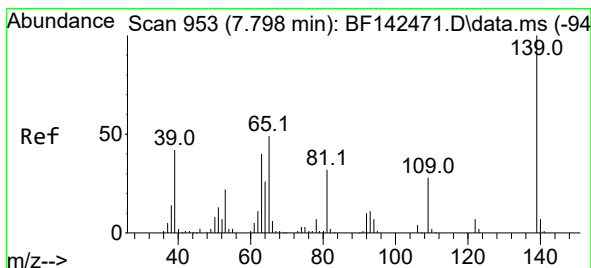
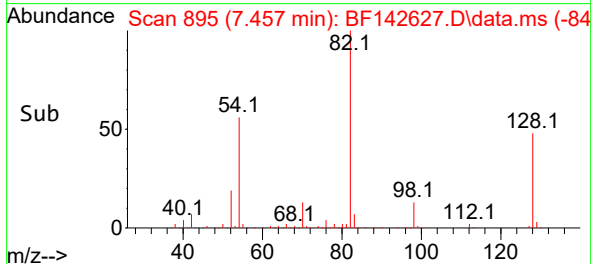
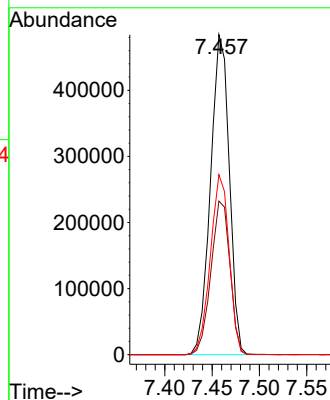
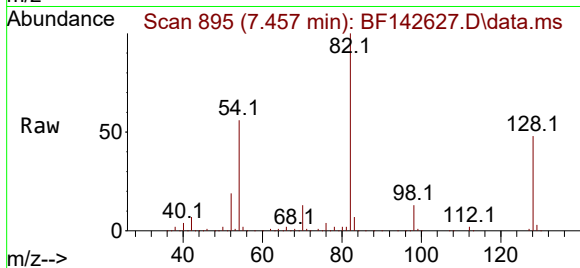
Tgt Ion: 82 Resp: 666482

Ion Ratio Lower Upper

82 100

128 48.0 37.4 56.2

54 56.2 46.6 70.0



#26

2-Nitrophenol

Concen: 65.056 ng

RT: 7.798 min Scan# 953

Delta R.T. -0.006 min

Lab File: BF142627.D

Acq: 05 Jun 2025 11:35

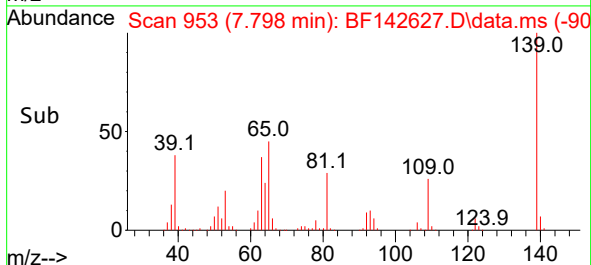
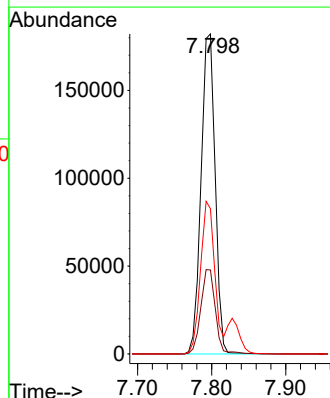
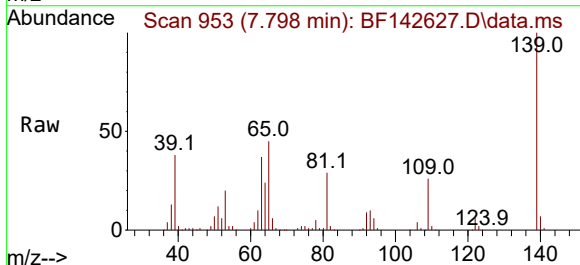
Tgt Ion:139 Resp: 240475

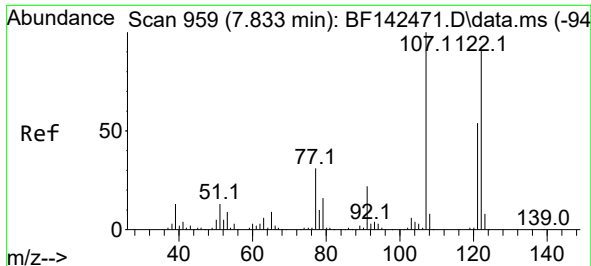
Ion Ratio Lower Upper

139 100

109 26.3 22.6 33.8

65 45.4 39.4 59.0





#27

2,4-Dimethylphenol

Concen: 45.738 ng

RT: 7.828 min Scan# 91

Delta R.T. -0.012 min

Lab File: BF142627.D

Acq: 05 Jun 2025 11:35

Instrument :

BNA_F

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38073-032124

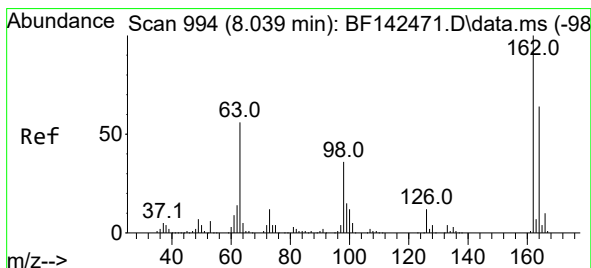
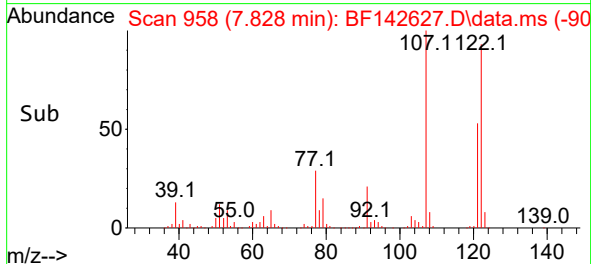
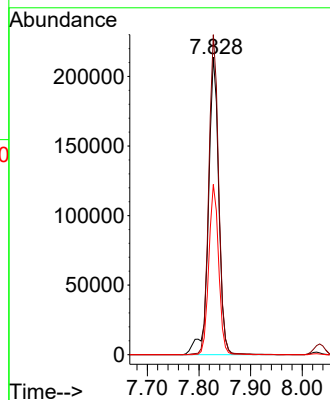
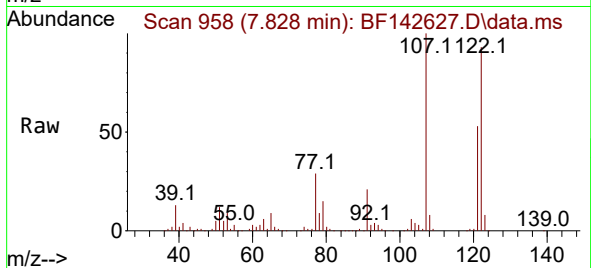
Tgt Ion:122 Resp: 298155

Ion Ratio Lower Upper

122 100

107 107.5 88.1 132.1

121 57.2 47.3 70.9



#29

2,4-Dichlorophenol

Concen: 97.872 ng

RT: 8.034 min Scan# 993

Delta R.T. -0.012 min

Lab File: BF142627.D

Acq: 05 Jun 2025 11:35

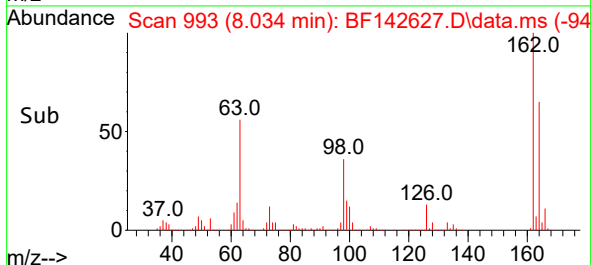
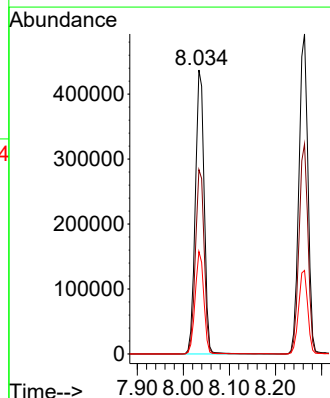
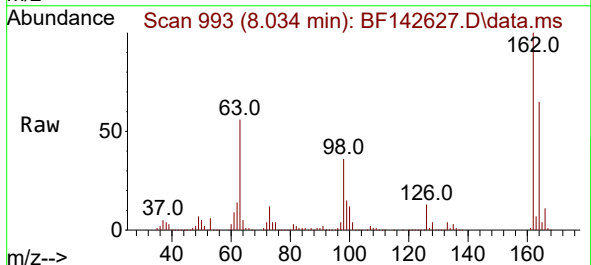
Tgt Ion:162 Resp: 580208

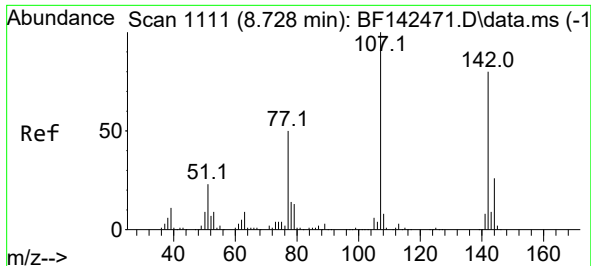
Ion Ratio Lower Upper

162 100

164 64.9 43.7 83.7

98 36.0 15.5 55.5





#36

4-Chloro-3-methylphenol

Concen: 108.337 ng

RT: 8.722 min Scan# 1111

Delta R.T. -0.018 min

Lab File: BF142627.D

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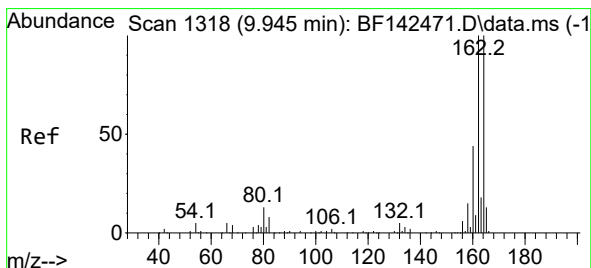
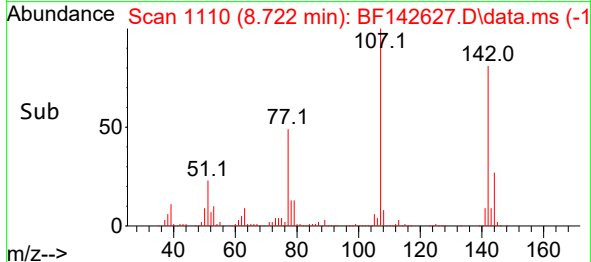
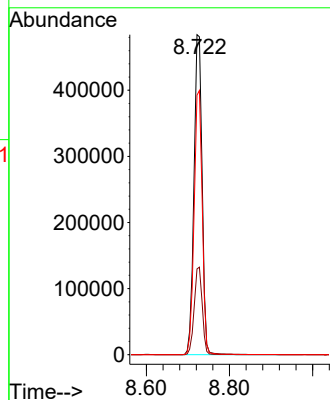
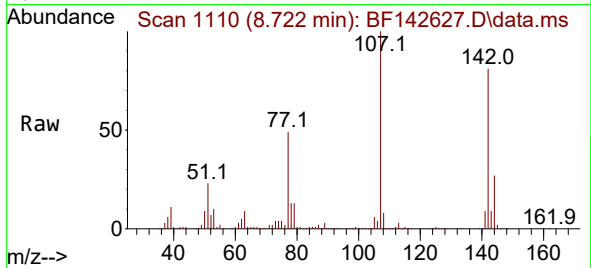
Tgt Ion:107 Resp: 658201

Ion Ratio Lower Upper

107 100

144 26.8 20.9 31.3

142 81.1 64.2 96.2



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.933 min Scan# 1316

Delta R.T. -0.012 min

Lab File: BF142627.D

Acq: 05 Jun 2025 11:35

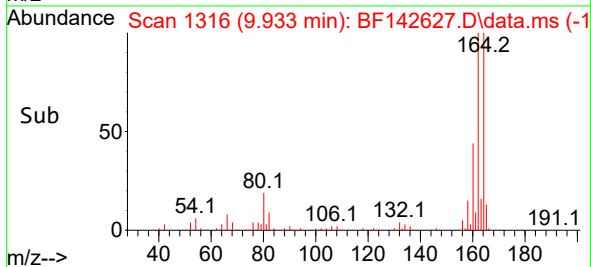
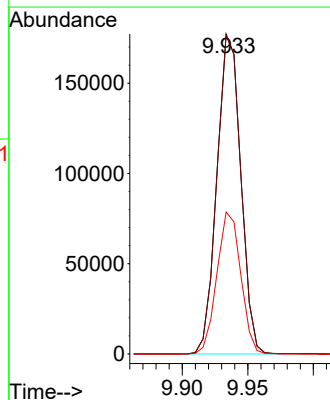
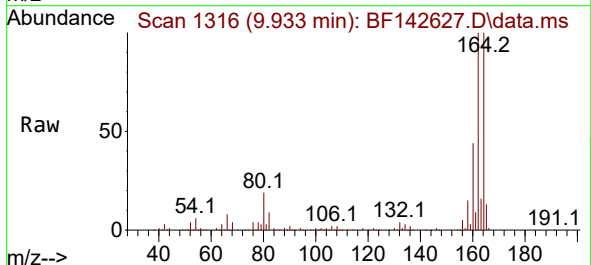
Tgt Ion:164 Resp: 223750

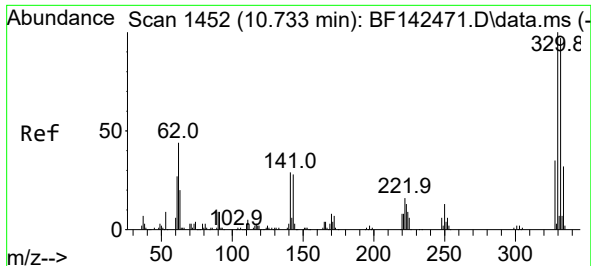
Ion Ratio Lower Upper

164 100

162 99.6 80.2 120.4

160 44.4 35.6 53.4





#42

2,4,6-Tribromophenol

Concen: 146.399 ng

RT: 10.728 min Scan# 1451

Delta R.T. -0.012 min

Lab File: BF142627.D

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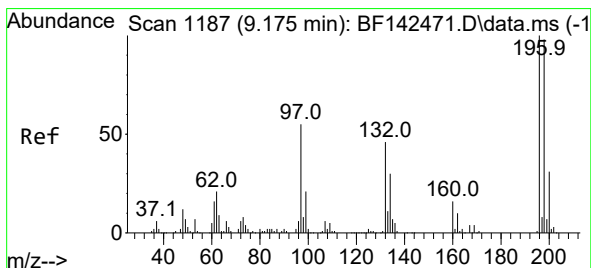
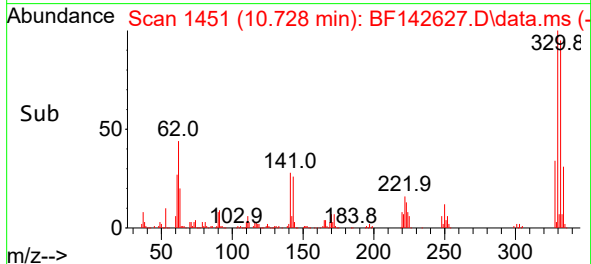
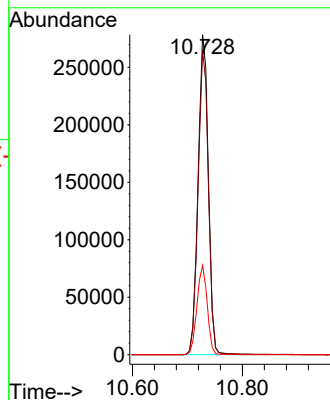
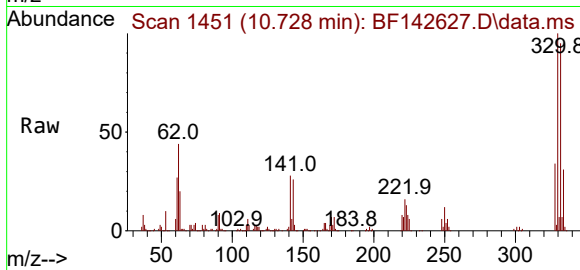
Tgt Ion:330 Resp: 363560

Ion Ratio Lower Upper

330 100

332 95.1 77.6 116.4

141 27.8 24.6 36.8



#43

2,4,6-Trichlorophenol

Concen: 161.451 ng

RT: 9.210 min Scan# 1193

Delta R.T. 0.035 min

Lab File: BF142627.D

Acq: 05 Jun 2025 11:35

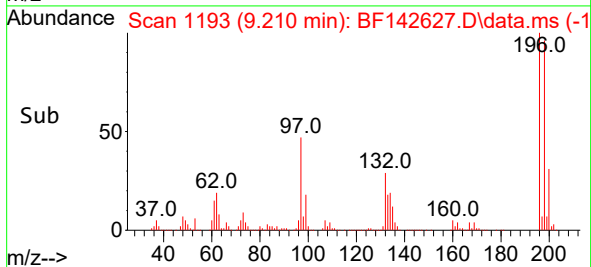
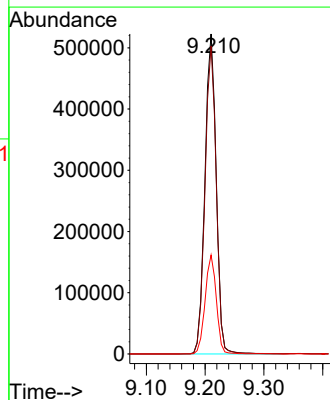
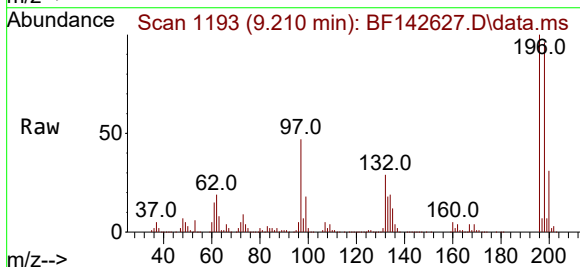
Tgt Ion:196 Resp: 699257

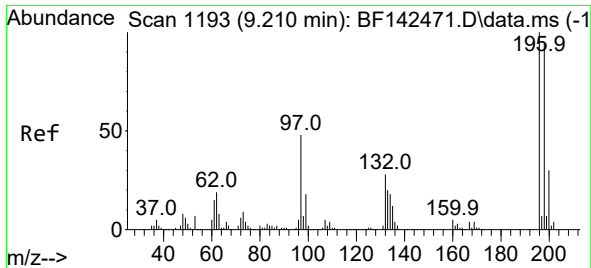
Ion Ratio Lower Upper

196 100

198 96.2 78.8 118.2

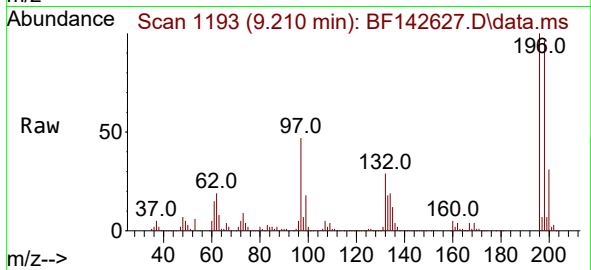
200 30.9 24.9 37.3



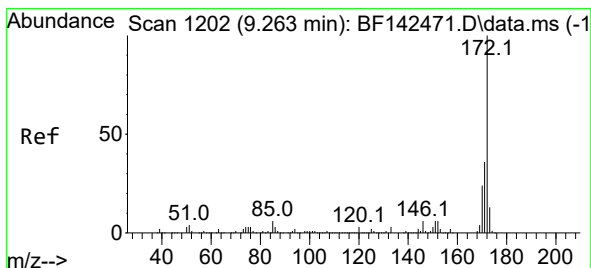
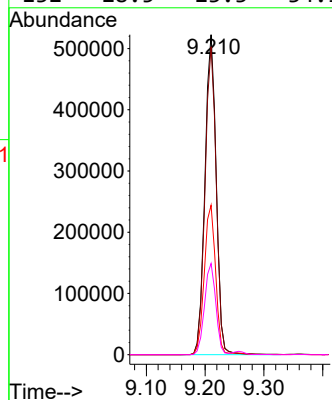
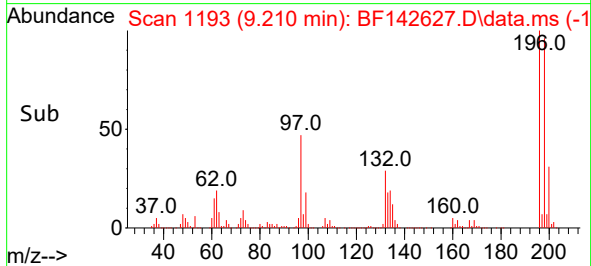


#44
2,4,5-Trichlorophenol
Concen: 153.086 ng
RT: 9.210 min Scan# 1193
Delta R.T. -0.006 min
Lab File: BF142627.D
Acq: 05 Jun 2025 11:35

Instrument :
BNA_F
ClientSampleId :
38073-032124

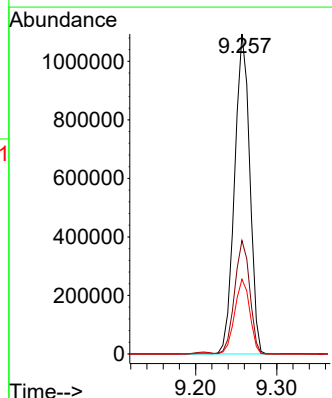
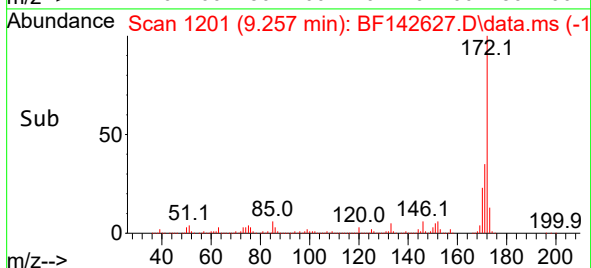
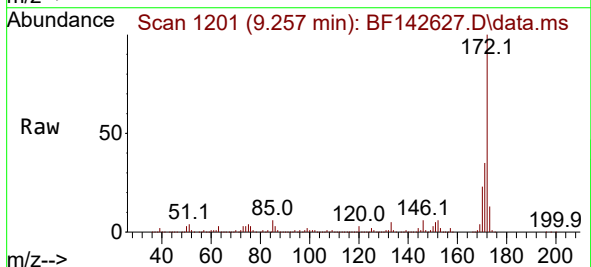


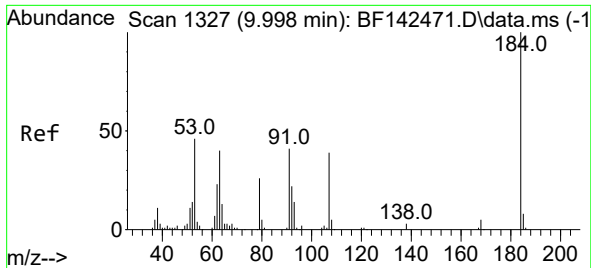
Tgt Ion:196 Resp: 699257
Ion Ratio Lower Upper
196 100
198 96.2 75.5 113.3
97 46.7 39.3 58.9
132 28.5 23.3 34.9



#45
2-Fluorobiphenyl
Concen: 85.002 ng
RT: 9.257 min Scan# 1201
Delta R.T. -0.012 min
Lab File: BF142627.D
Acq: 05 Jun 2025 11:35

Tgt Ion:172 Resp: 1417378
Ion Ratio Lower Upper
172 100
171 35.5 28.6 42.8
170 23.3 18.9 28.3

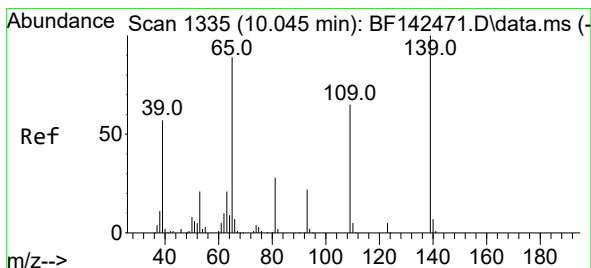
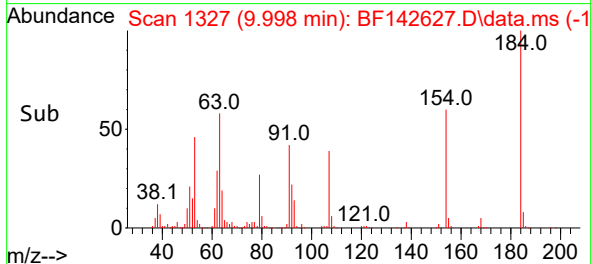
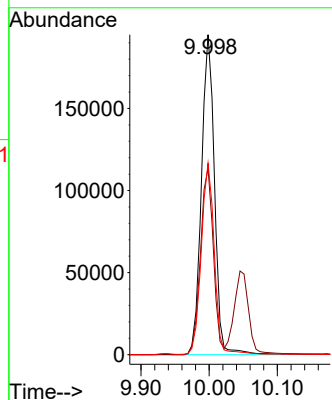
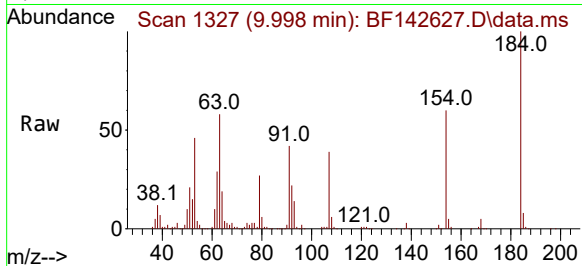




#54
2,4-Dinitrophenol
Concen: 157.736 ng
RT: 9.998 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF142627.D
Acq: 05 Jun 2025 11:35

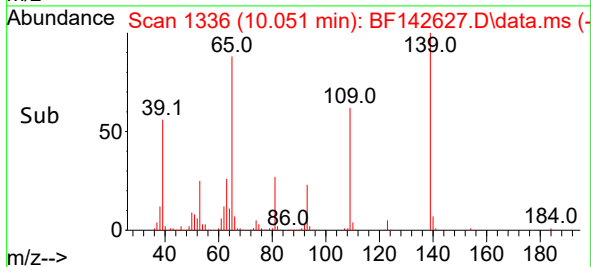
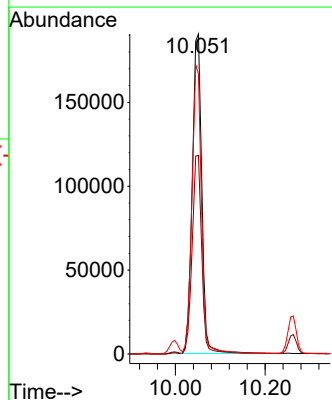
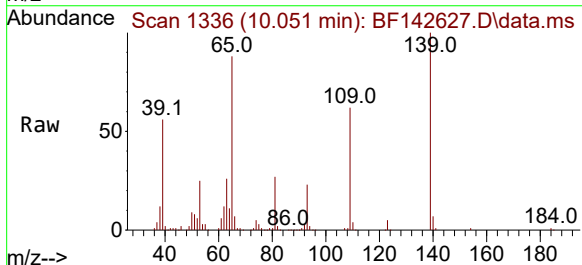
Instrument :
BNA_F
ClientSampleId :
38073-032124

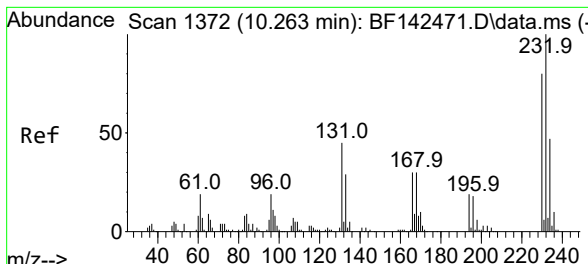
Tgt Ion:184 Resp: 259674
Ion Ratio Lower Upper
184 100
63 58.3 46.3 69.5
154 59.9 56.8 85.2



#56
4-Nitrophenol
Concen: 109.733 ng
RT: 10.051 min Scan# 1336
Delta R.T. 0.000 min
Lab File: BF142627.D
Acq: 05 Jun 2025 11:35

Tgt Ion:139 Resp: 281796
Ion Ratio Lower Upper
139 100
109 62.1 45.1 85.1
65 87.6 69.7 109.7



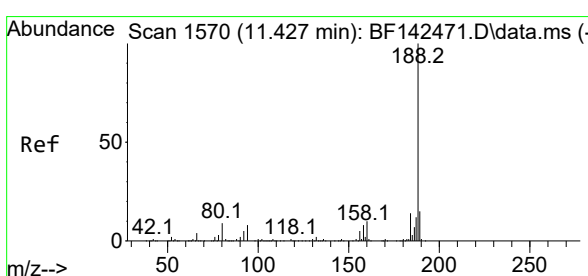
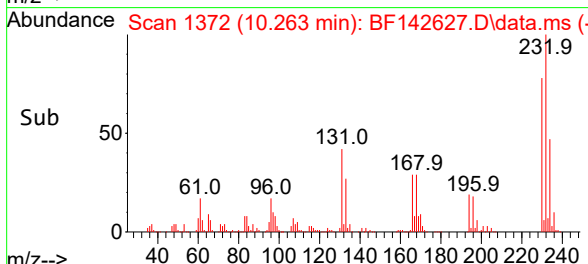
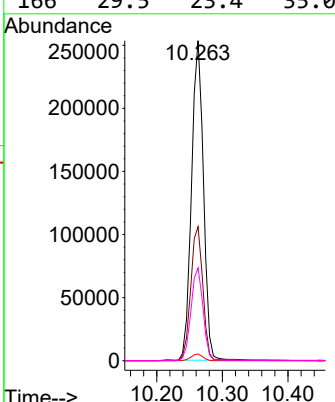
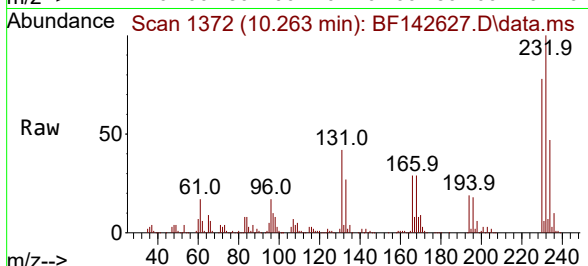


#59
 2,3,4,6-Tetrachlorophenol
 Concen: 83.997 ng
 RT: 10.263 min Scan# 1372
 Delta R.T. -0.006 min
 Lab File: BF142627.D
 Acq: 05 Jun 2025 11:35

Instrument :
 BNA_F
 ClientSampleId :
 38073-032124

Tgt Ion:232 Resp: 320299

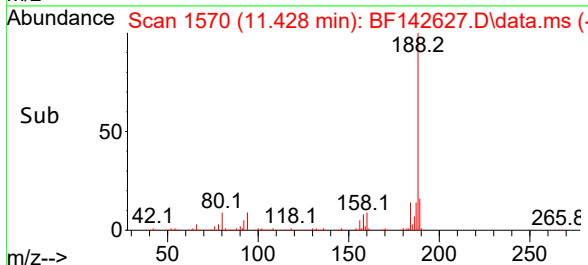
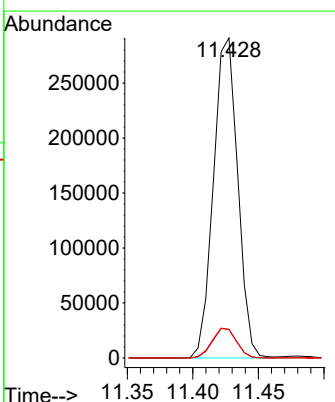
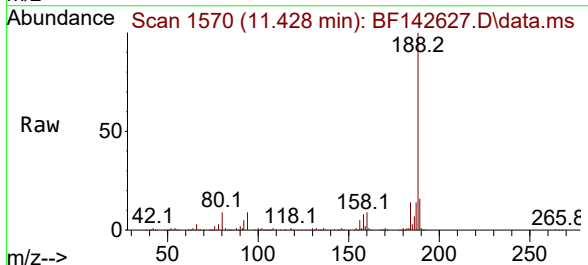
Ion	Ratio	Lower	Upper
232	100		
131	42.8	35.2	52.8
130	2.1	1.7	2.5
166	29.5	23.4	35.0

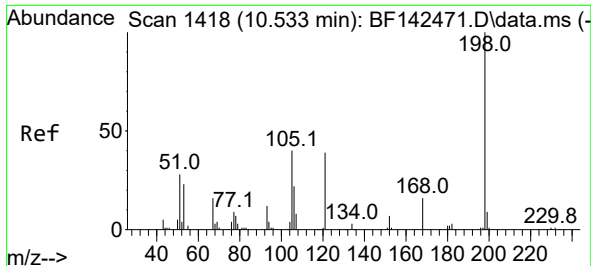


#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.428 min Scan# 1570
 Delta R.T. -0.006 min
 Lab File: BF142627.D
 Acq: 05 Jun 2025 11:35

Tgt Ion:188 Resp: 374727

Ion	Ratio	Lower	Upper
188	100		
94	8.9	6.6	10.0
80	8.9	7.4	11.0

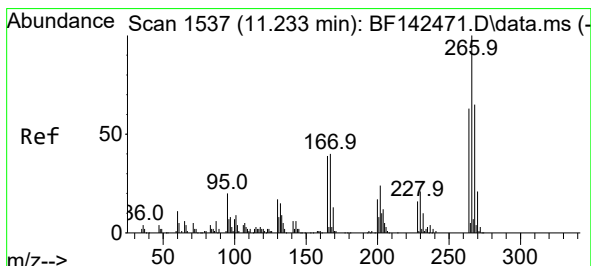
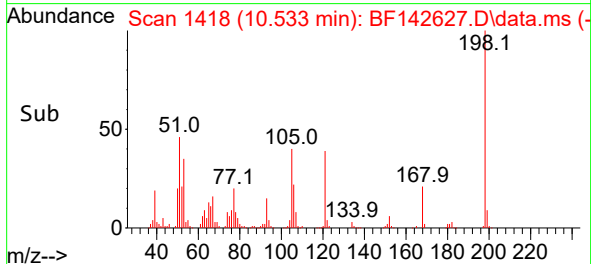
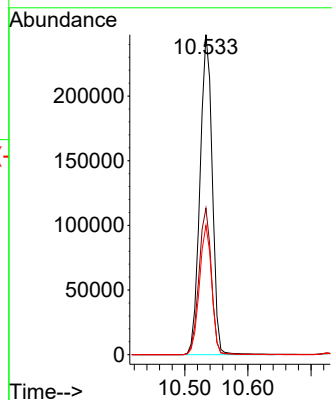
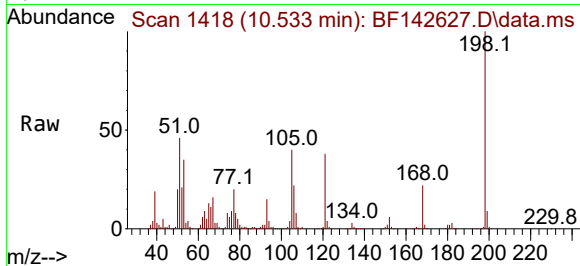




#65
4,6-Dinitro-2-methylphenol
Concen: 159.541 ng
RT: 10.533 min Scan# 1418
Delta R.T. -0.006 min
Lab File: BF142627.D
Acq: 05 Jun 2025 11:35

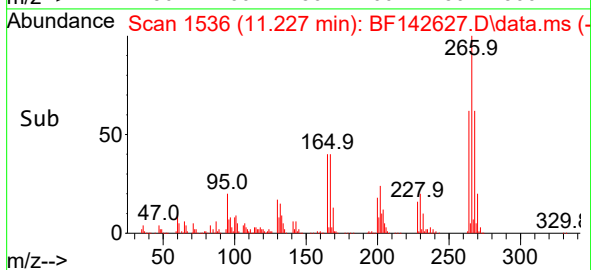
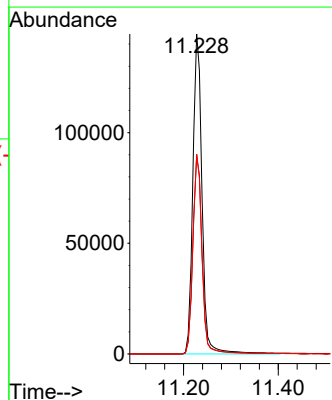
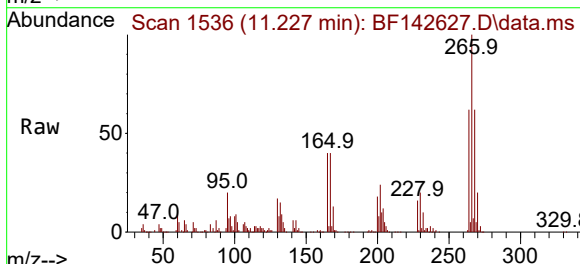
Instrument :
BNA_F
ClientSampleId :
38073-032124

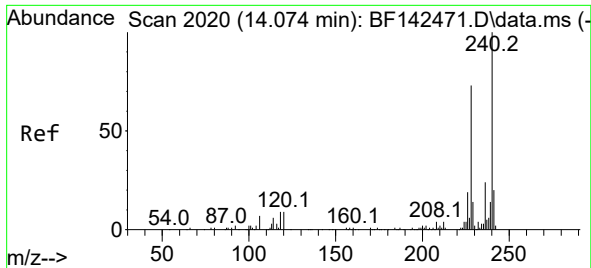
Tgt Ion:198 Resp: 333642
Ion Ratio Lower Upper
198 100
51 45.7 28.3 68.3
105 40.4 21.3 61.3



#70
Pentachlorophenol
Concen: 70.588 ng
RT: 11.227 min Scan# 1536
Delta R.T. -0.006 min
Lab File: BF142627.D
Acq: 05 Jun 2025 11:35

Tgt Ion:266 Resp: 195305
Ion Ratio Lower Upper
266 100
268 62.1 51.7 77.5
264 62.5 50.4 75.6

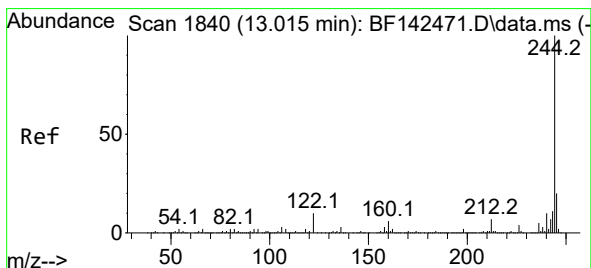
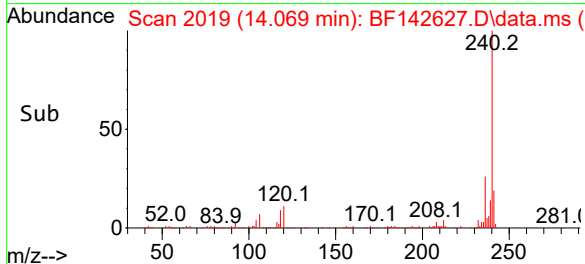
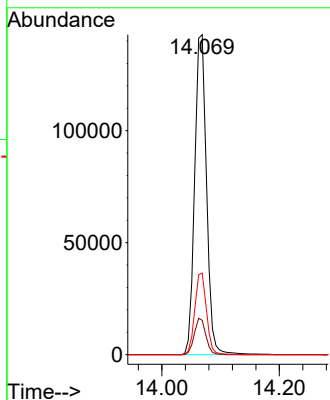
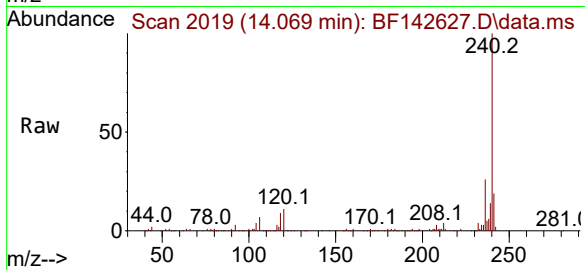




#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.069 min Scan# 20
Delta R.T. -0.006 min
Lab File: BF142627.D
Acq: 05 Jun 2025 11:35

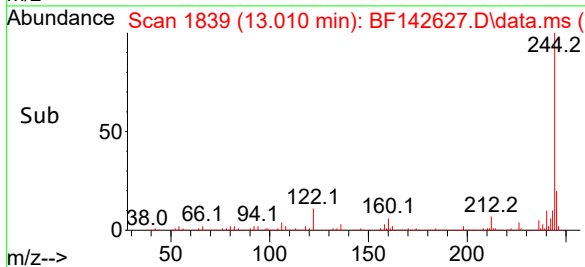
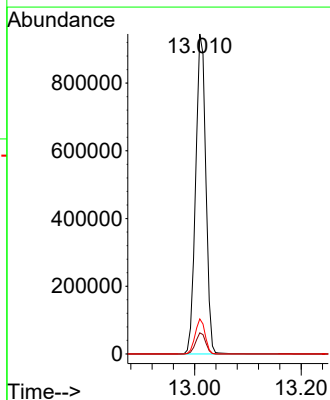
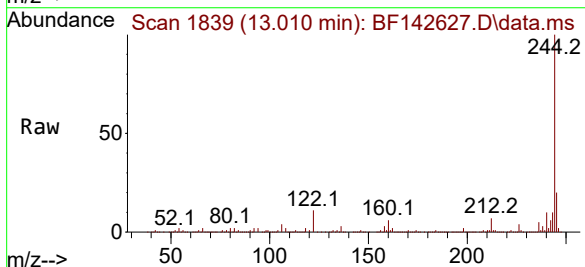
Instrument :
BNA_F
ClientSampleId :
38073-032124

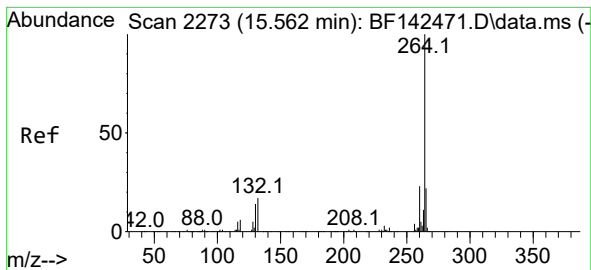
Tgt Ion:240 Resp: 200432
Ion Ratio Lower Upper
240 100
120 10.8 7.5 11.3
236 25.5 19.6 29.4



#79
Terphenyl-d14
Concen: 85.458 ng
RT: 13.010 min Scan# 1839
Delta R.T. -0.006 min
Lab File: BF142627.D
Acq: 05 Jun 2025 11:35

Tgt Ion:244 Resp: 1253425
Ion Ratio Lower Upper
244 100
212 6.6 5.3 7.9
122 11.0 8.2 12.2





#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.563 min Scan# 21
 Delta R.T. -0.006 min
 Lab File: BF142627.D
 Acq: 05 Jun 2025 11:35

Instrument :
 BNA_F
 ClientSampleId :
 38073-032124

Tgt Ion:264 Resp: 211446
 Ion Ratio Lower Upper
 264 100
 260 23.5 18.6 28.0
 265 21.4 17.7 26.5

