

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP081225\
 Data File : BP025375.D
 Acq On : 12 Aug 2025 20:46
 Operator : CG/JU
 Sample : Q2823-01 2X
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 SU-04-081125

Quant Time: Aug 12 23:01:33 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP080525.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 06 06:41:44 2025
 Response via : Initial Calibration

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

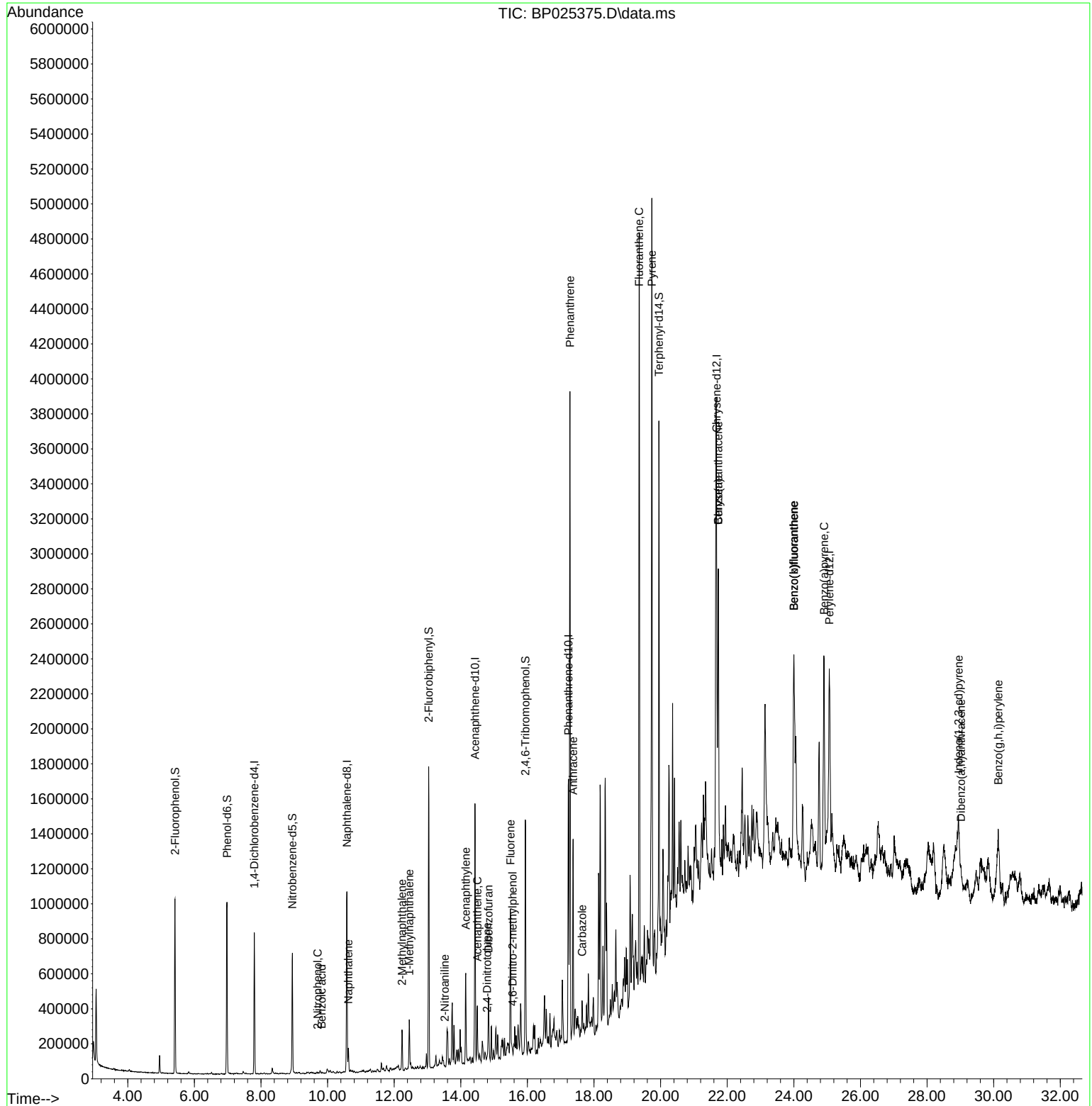
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.802	152	220572	20.000	ng	0.00
21) Naphthalene-d8	10.578	136	870118	20.000	ng	0.00
39) Acenaphthene-d10	14.425	164	537895	20.000	ng	0.00
64) Phenanthrene-d10	17.231	188	1013611	20.000	ng	0.00
76) Chrysene-d12	21.677	240	979275	20.000	ng	0.02
86) Perylene-d12	25.065	264	1164191	20.000	ng	0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.419	112	464353	33.860	ng	0.01
7) Phenol-d6	6.978	99	582356	32.266	ng	0.01
23) Nitrobenzene-d5	8.943	82	375859	23.931	ng	0.00
42) 2,4,6-Tribromophenol	15.937	330	243841	45.441	ng	0.01
45) 2-Fluorobiphenyl	13.037	172	938066	24.088	ng	0.00
79) Terphenyl-d14	19.948	244	1333308	25.716	ng	0.00
Target Compounds						Qvalue
26) 2-Nitrophenol	9.702	139	122	3.656	ng	# 1
31) Naphthalene	10.625	128	103627	2.294	ng	99
32) Benzoic acid	9.819	122	185	5.978	ng	84
37) 2-Methylnaphthalene	12.237	142	110638	3.784	ng	99
38) 1-Methylnaphthalene	12.454	142	138257	4.532	ng	98
48) 2-Nitroaniline	13.519	65	183	2.983	ng	# 40
49) Acenaphthylene	14.148	152	358273	7.102	ng	97
52) Acenaphthene	14.495	154	117210	3.809	ng	99
55) Dibenzofuran	14.831	168	164319	3.574	ng	# 94
57) 2,4-Dinitrotoluene	14.790	165	1318	3.365	ng	# 63
58) Fluorene	15.490	166	385627	10.678	ng	98
65) 4,6-Dinitro-2-methylph...	15.554	198	125	4.868	ng	# 1
71) Phenanthrene	17.278	178	2444356	44.029	ng	99
72) Anthracene	17.372	178	748236	13.367	ng	99
73) Carbazole	17.642	167	133364	2.482	ng	96
75) Fluoranthene	19.354	202	2870450	44.664	ng	98
78) Pyrene	19.736	202	2962848	45.498	ng	100
81) Benzo(a)anthracene	21.730	228	1293131	19.871	ng	94
83) Chrysene	21.730	228	1293131	21.424	ng	97
87) Indeno(1,2,3-cd)pyrene	28.948	276	764433	9.161	ng	# 92
88) Benzo(b)fluoranthene	24.001	252	1494717	21.448	ng	97
89) Benzo(k)fluoranthene	24.001	252	1494717	21.636	ng	97
90) Benzo(a)pyrene	24.907	252	1243517	18.529	ng	99
91) Dibenzo(a,h)anthracene	29.018	278	214459	3.138	ng	# 84
92) Benzo(g,h,i)perylene	30.136	276	692217	10.321	ng	100

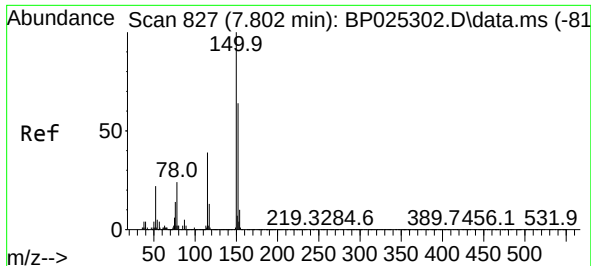
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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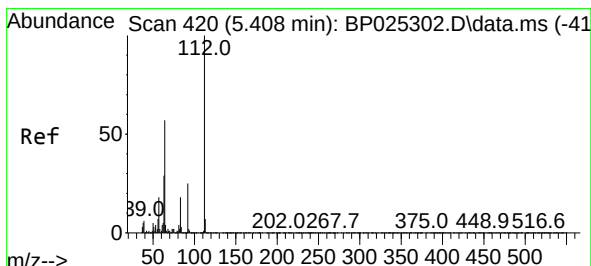
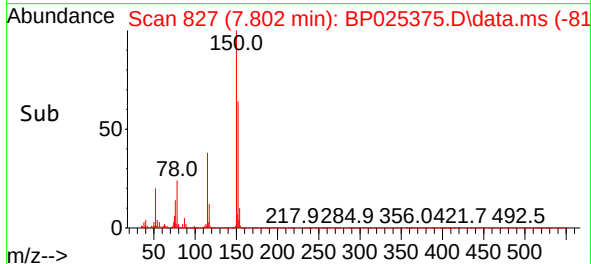
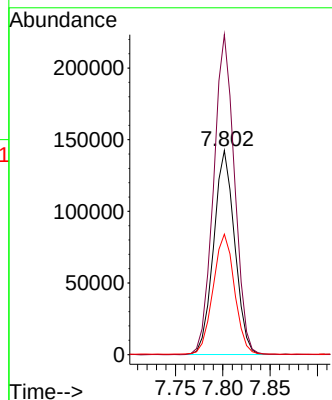
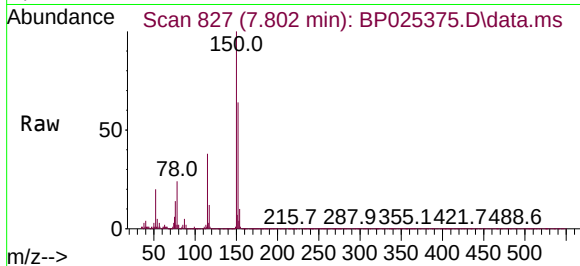




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 7.802 min Scan# 81
 Delta R.T. -0.000 min
 Lab File: BP025375.D
 Acq: 12 Aug 2025 20:46

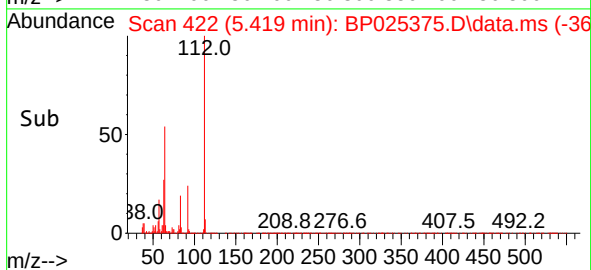
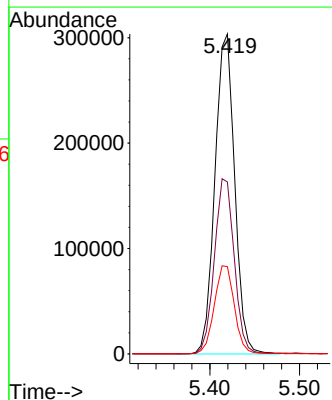
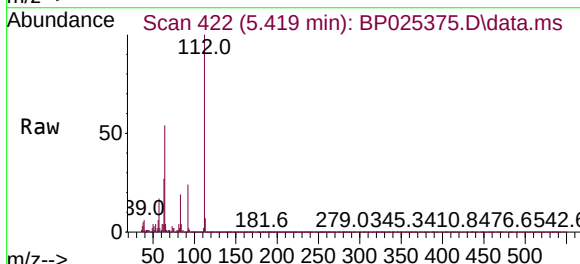
Instrument :
 BNA_P
 ClientSampleId :
 SU-04-081125

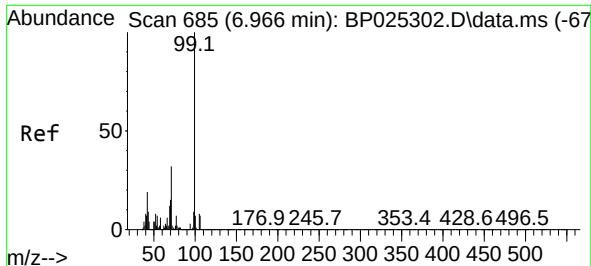
Tgt Ion:152 Resp: 220572
 Ion Ratio Lower Upper
 152 100
 150 156.9 125.1 187.7
 115 59.0 48.4 72.6



#5
 2-Fluorophenol
 Concen: 33.860 ng
 RT: 5.419 min Scan# 422
 Delta R.T. 0.011 min
 Lab File: BP025375.D
 Acq: 12 Aug 2025 20:46

Tgt Ion:112 Resp: 464353
 Ion Ratio Lower Upper
 112 100
 64 53.7 45.3 67.9
 63 27.3 23.0 34.6

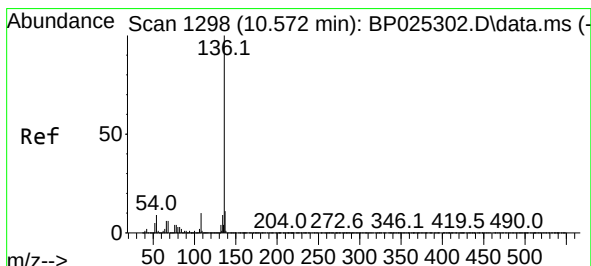
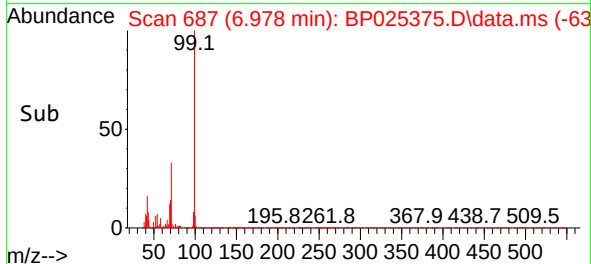
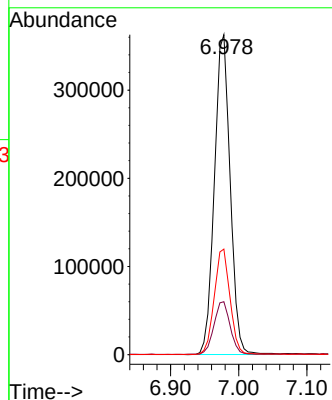
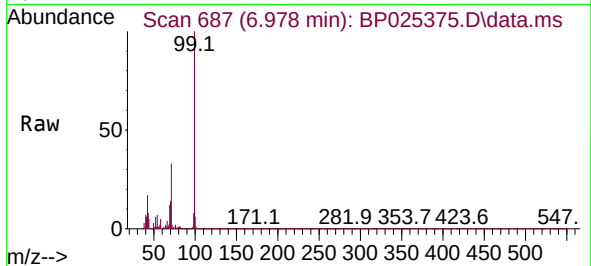




#7
Phenol-d6
Concen: 32.266 ng
RT: 6.978 min Scan# 68
Delta R.T. 0.012 min
Lab File: BP025375.D
Acq: 12 Aug 2025 20:46

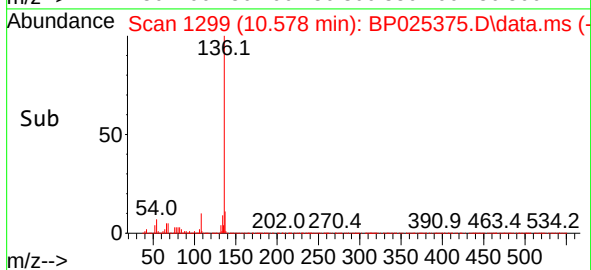
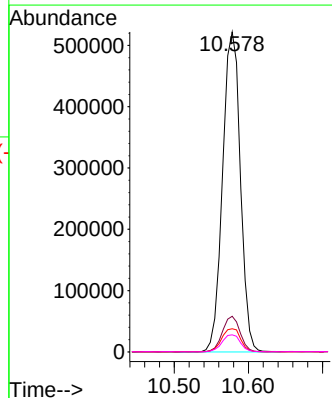
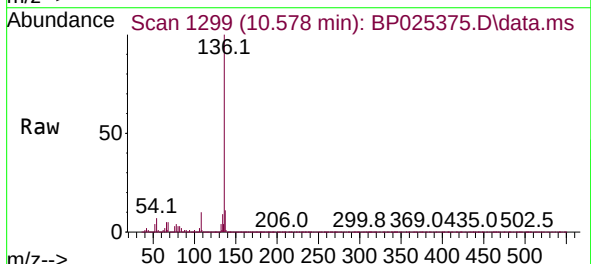
Instrument :
BNA_P
ClientSampleId :
SU-04-081125

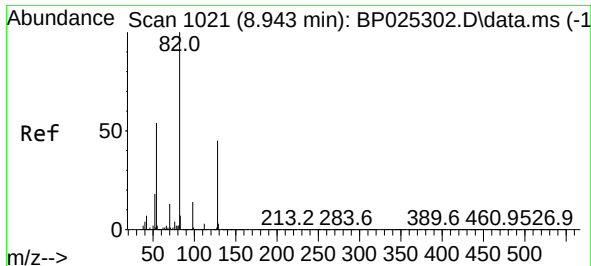
Tgt Ion:	99	Resp:	582356
Ion	Ratio	Lower	Upper
99	100		
42	16.5	15.0	22.6
71	33.0	25.5	38.3



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.578 min Scan# 1299
Delta R.T. 0.006 min
Lab File: BP025375.D
Acq: 12 Aug 2025 20:46

Tgt Ion:	136	Resp:	870118
Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.9	13.3
54	7.3	7.0	10.6
68	5.3	5.0	7.6

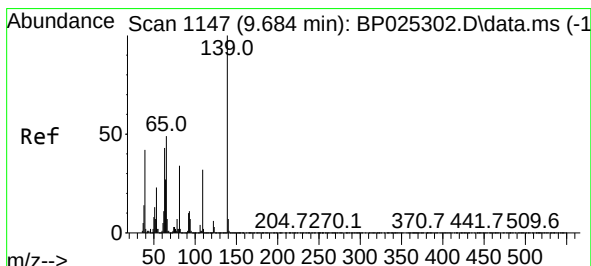
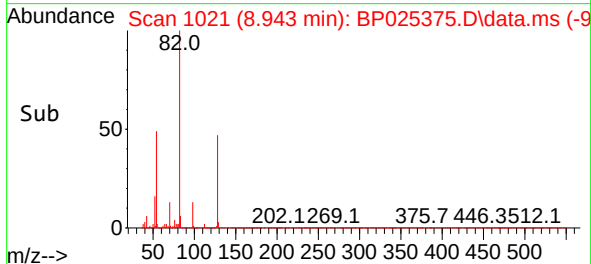
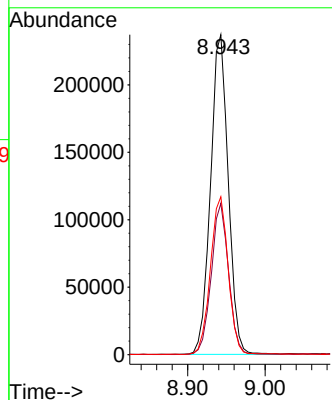
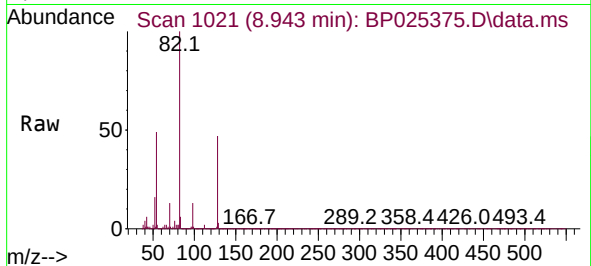




#23
Nitrobenzene-d5
Concen: 23.931 ng
RT: 8.943 min Scan# 10
Delta R.T. -0.000 min
Lab File: BP025375.D
Acq: 12 Aug 2025 20:46

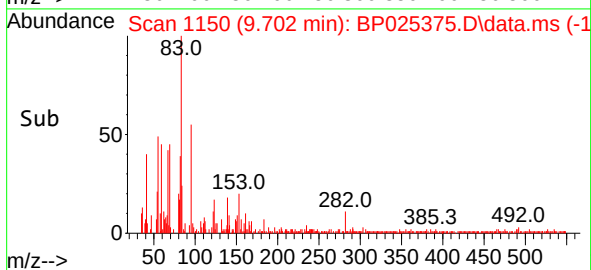
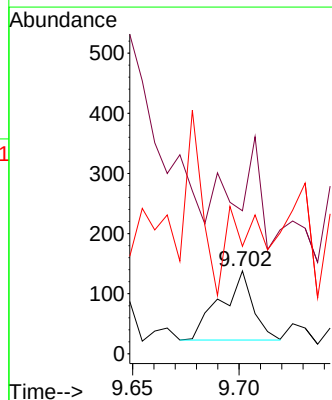
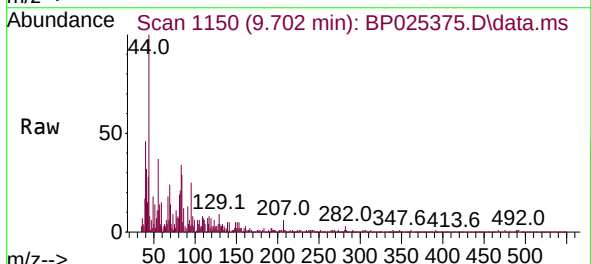
Instrument :
BNA_P
ClientSampleId :
SU-04-081125

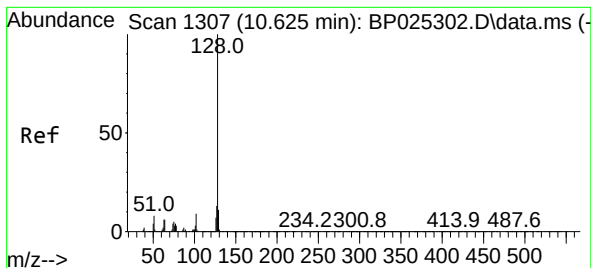
Tgt Ion: 82 Resp: 375859
Ion Ratio Lower Upper
82 100
128 47.2 35.4 53.2
54 49.4 42.9 64.3



#26
2-Nitrophenol
Concen: 3.656 ng
RT: 9.702 min Scan# 1150
Delta R.T. 0.018 min
Lab File: BP025375.D
Acq: 12 Aug 2025 20:46

Tgt Ion: 139 Resp: 122
Ion Ratio Lower Upper
139 100
109 172.5 25.2 37.8#
65 129.7 39.6 59.4#

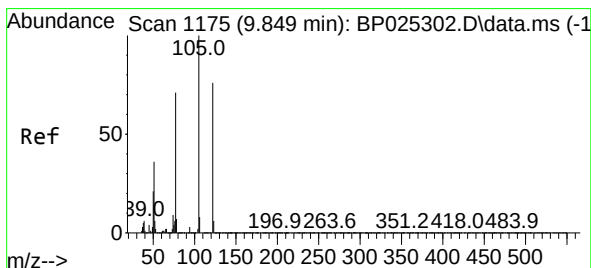
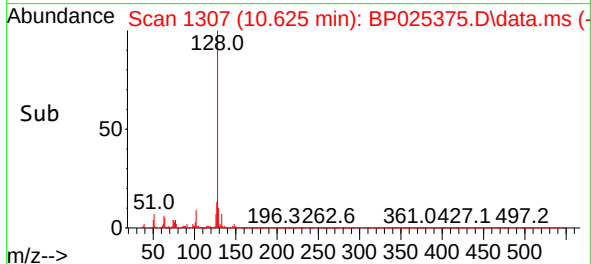
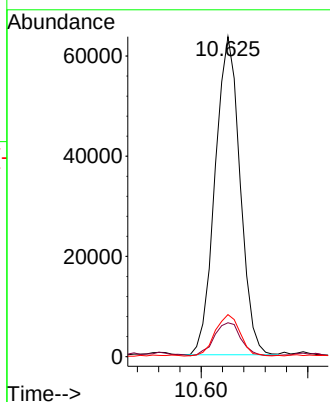
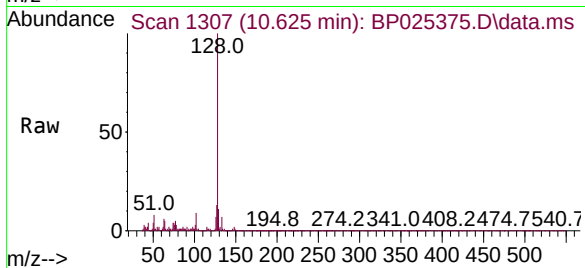




#31
Naphthalene
Concen: 2.294 ng
RT: 10.625 min Scan# 1307
Delta R.T. 0.000 min
Lab File: BP025375.D
Acq: 12 Aug 2025 20:46

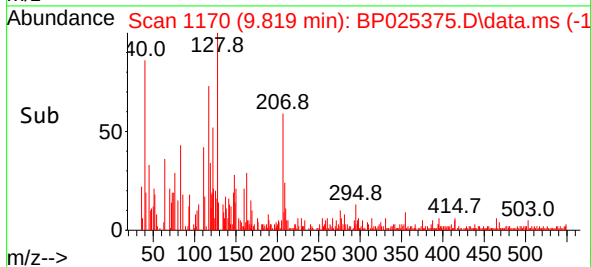
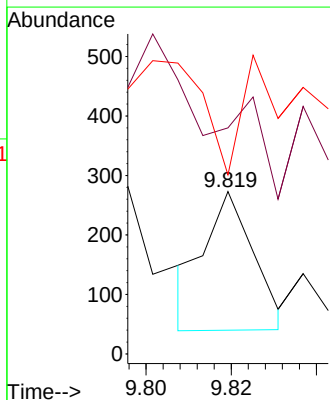
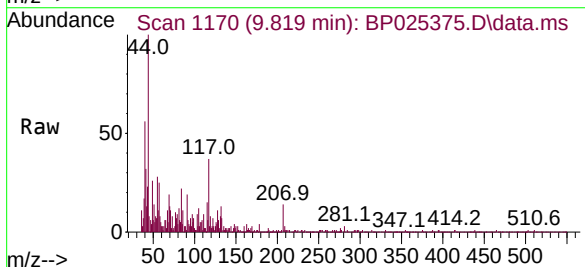
Instrument :
BNA_P
ClientSampleId :
SU-04-081125

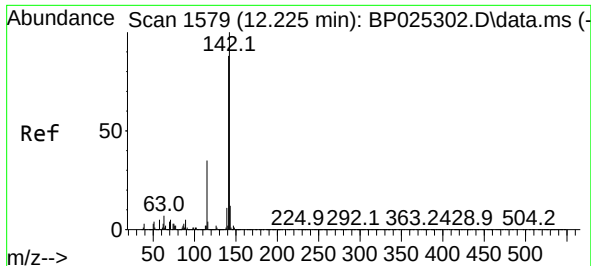
Tgt Ion:	128	Resp:	103627
Ion Ratio	Lower	Upper	
128	100		
129	10.6	8.9	13.3
127	13.1	10.4	15.6



#32
Benzoic acid
Concen: 5.978 ng
RT: 9.819 min Scan# 1170
Delta R.T. -0.030 min
Lab File: BP025375.D
Acq: 12 Aug 2025 20:46

Tgt Ion:	122	Resp:	185
Ion Ratio	Lower	Upper	
122	100		
105	139.2	104.0	144.0
77	110.3	71.8	111.8

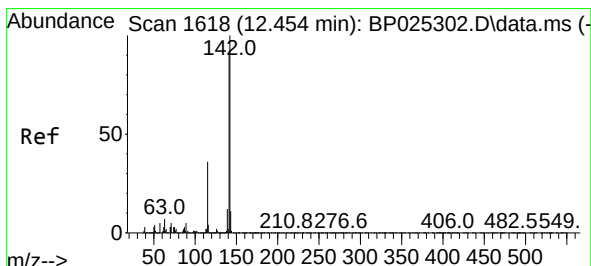
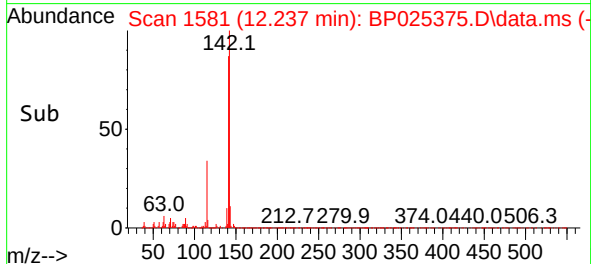
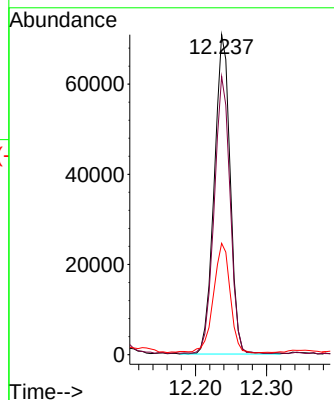
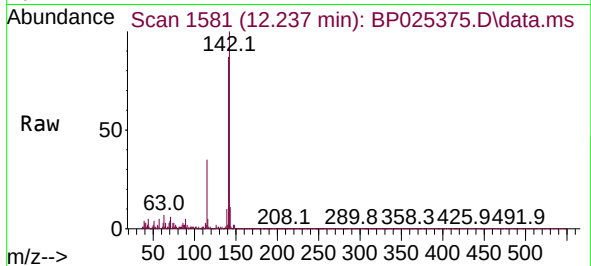




#37
2-Methylnaphthalene
Concen: 3.784 ng
RT: 12.237 min Scan# 1581
Delta R.T. 0.012 min
Lab File: BP025375.D
Acq: 12 Aug 2025 20:46

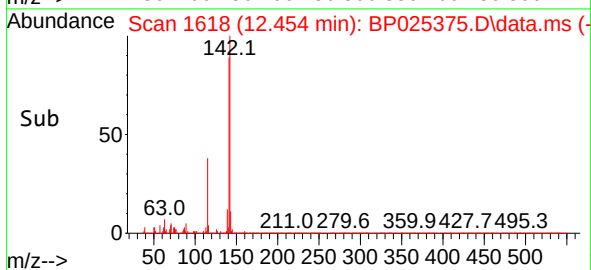
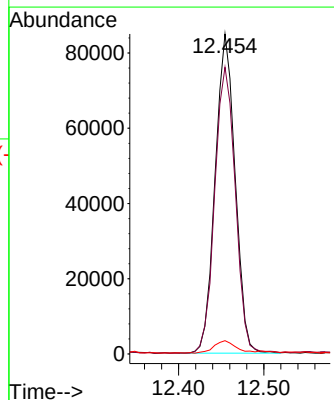
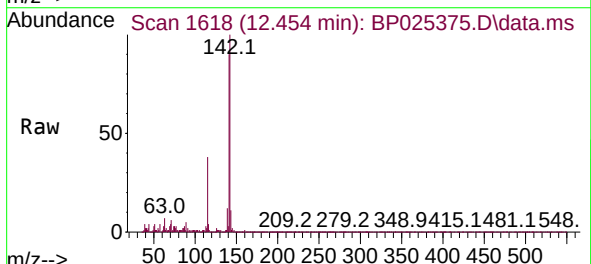
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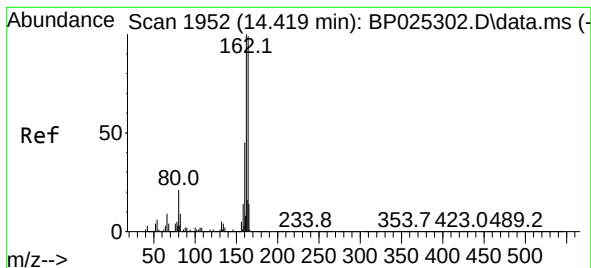
Tgt Ion:142 Resp: 110638
Ion Ratio Lower Upper
142 100
141 86.9 70.4 105.6
115 34.8 28.0 42.0



#38
1-Methylnaphthalene
Concen: 4.532 ng
RT: 12.454 min Scan# 1618
Delta R.T. 0.000 min
Lab File: BP025375.D
Acq: 12 Aug 2025 20:46

Tgt Ion:142 Resp: 138257
Ion Ratio Lower Upper
142 100
141 89.6 73.0 109.6
116 4.1 3.0 4.6





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.425 min Scan# 19

Delta R.T. 0.006 min

Lab File: BP025375.D

Acq: 12 Aug 2025 20:46

Instrument :

BNA_P

ClientSampleId :

SU-04-081125

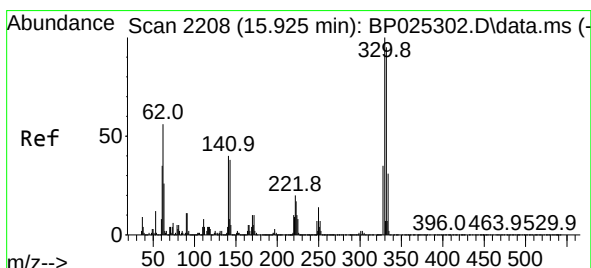
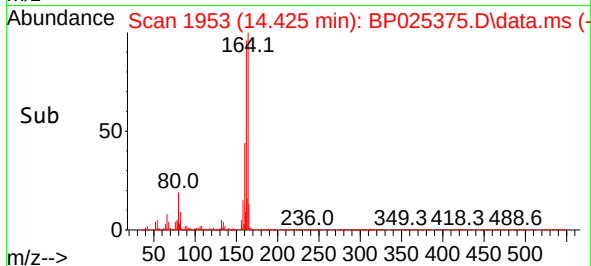
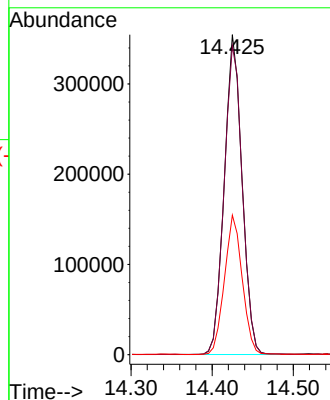
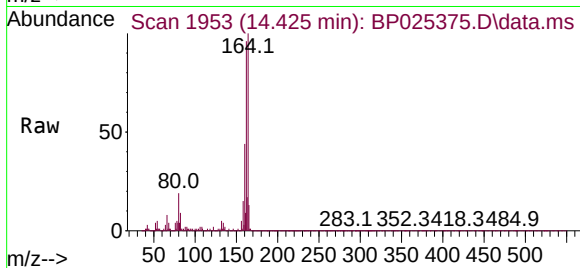
Tgt Ion:164 Resp: 537895

Ion Ratio Lower Upper

164 100

162 96.4 80.6 120.8

160 43.6 35.9 53.9



#42

2,4,6-Tribromophenol

Concen: 45.441 ng

RT: 15.937 min Scan# 2210

Delta R.T. 0.012 min

Lab File: BP025375.D

Acq: 12 Aug 2025 20:46

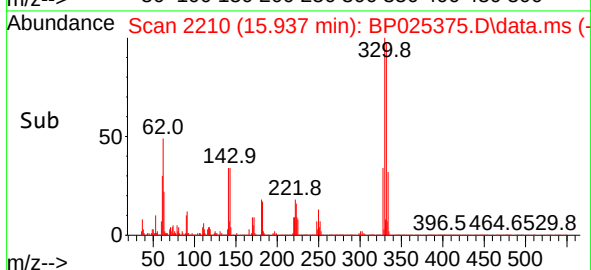
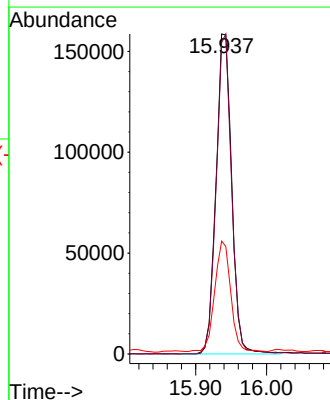
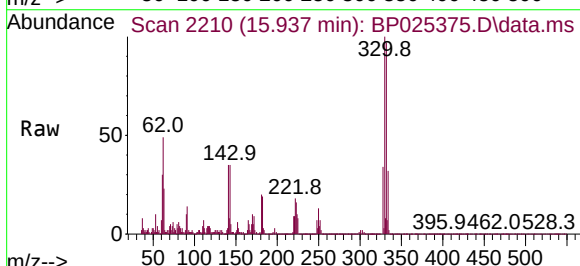
Tgt Ion:330 Resp: 243841

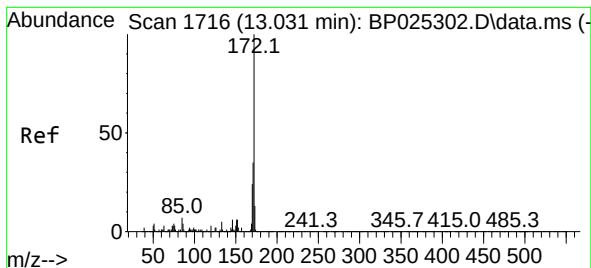
Ion Ratio Lower Upper

330 100

332 97.4 77.4 116.0

141 35.1 31.7 47.5





#45

2-Fluorobiphenyl

Concen: 24.088 ng

RT: 13.037 min Scan# 1716

Delta R.T. 0.006 min

Lab File: BP025375.D

Acq: 12 Aug 2025 20:46

Instrument :

BNA_P

ClientSampleId :

SU-04-081125

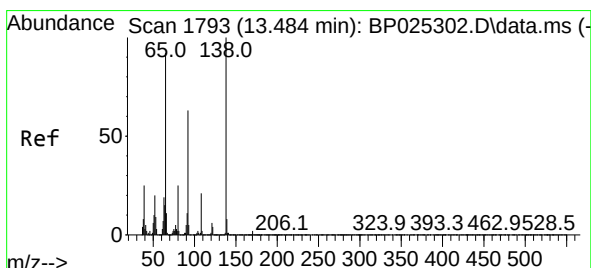
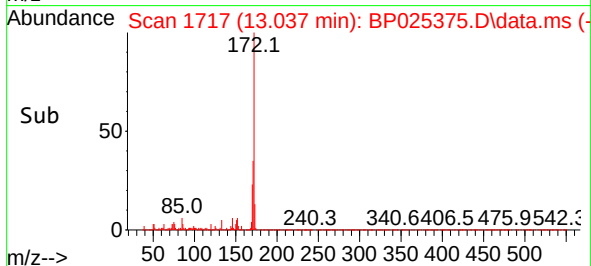
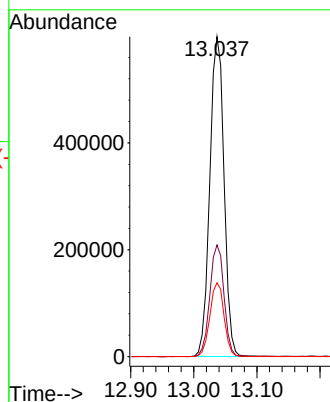
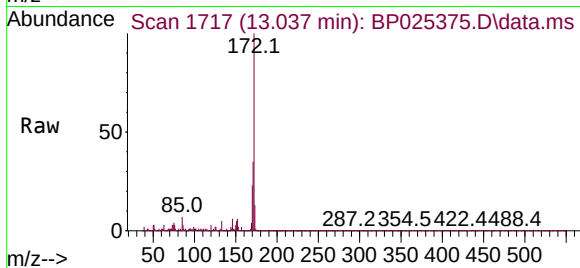
Tgt Ion:172 Resp: 938066

Ion Ratio Lower Upper

172 100

171 34.9 27.9 41.9

170 23.1 18.9 28.3



#48

2-Nitroaniline

Concen: 2.983 ng

RT: 13.519 min Scan# 1799

Delta R.T. 0.035 min

Lab File: BP025375.D

Acq: 12 Aug 2025 20:46

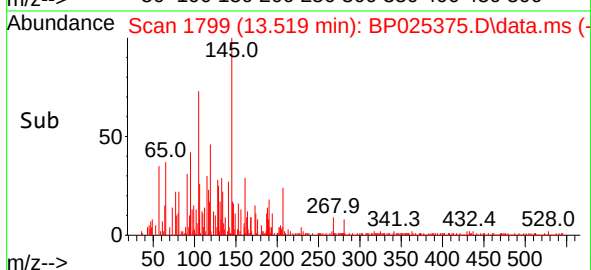
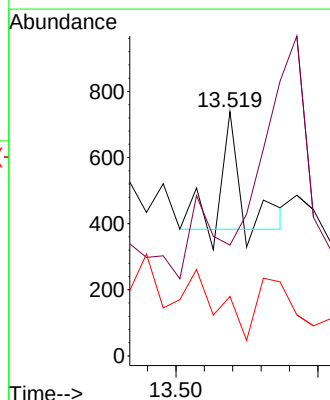
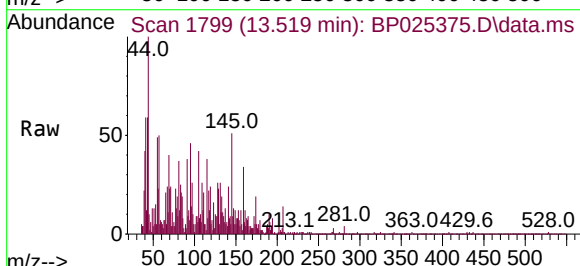
Tgt Ion: 65 Resp: 183

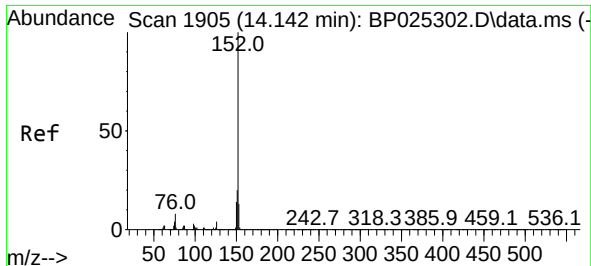
Ion Ratio Lower Upper

65 100

92 45.3 54.4 81.6#

138 24.4 87.0 130.4#

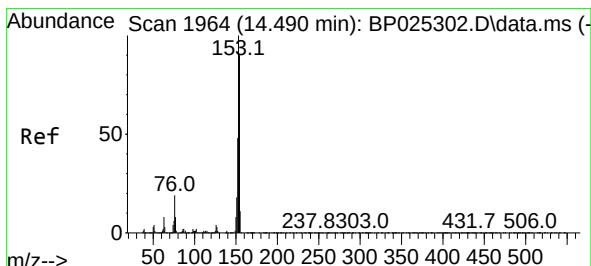
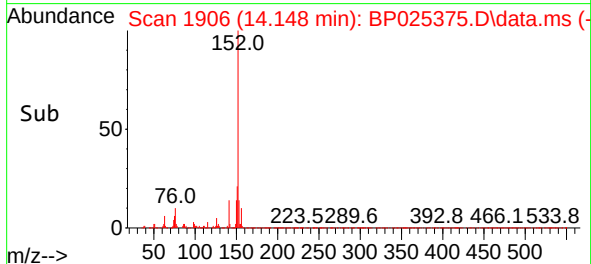
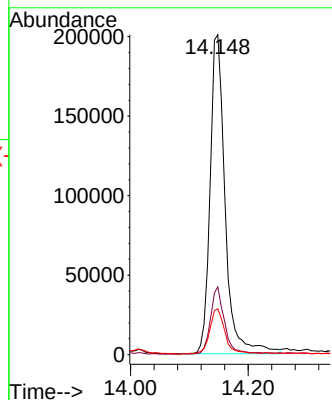
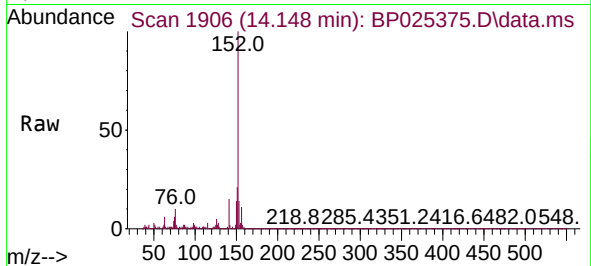




#49
Acenaphthylene
Concen: 7.102 ng
RT: 14.148 min Scan# 1905
Delta R.T. 0.006 min
Lab File: BP025375.D
Acq: 12 Aug 2025 20:46

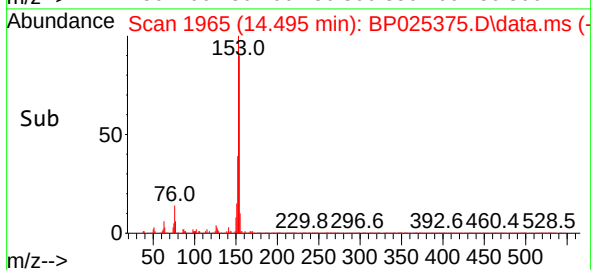
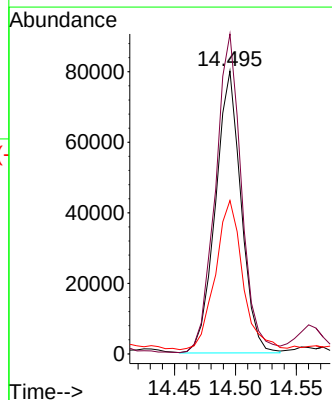
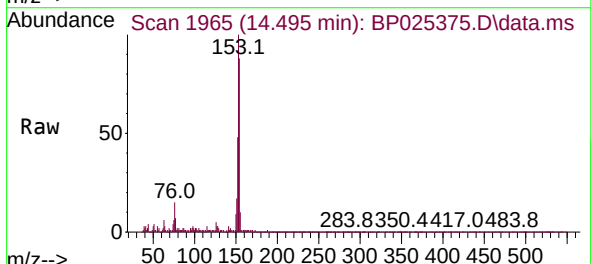
Instrument :
BNA_P
ClientSampleId :
SU-04-081125

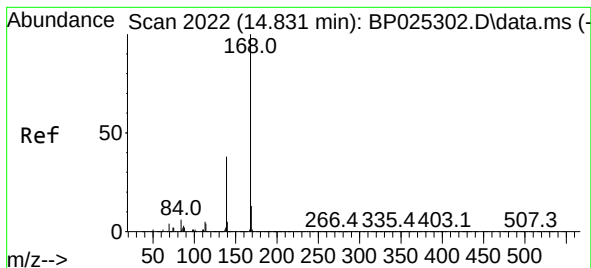
Tgt Ion:152 Resp: 358273
Ion Ratio Lower Upper
152 100
151 21.2 15.8 23.6
153 14.3 10.4 15.6



#52
Acenaphthene
Concen: 3.809 ng
RT: 14.495 min Scan# 1965
Delta R.T. 0.005 min
Lab File: BP025375.D
Acq: 12 Aug 2025 20:46

Tgt Ion:154 Resp: 117210
Ion Ratio Lower Upper
154 100
153 113.2 89.4 134.0
152 54.3 43.0 64.6





#55

Dibenzofuran

Concen: 3.574 ng

RT: 14.831 min Scan# 20

Delta R.T. -0.000 min

Lab File: BP025375.D

Acq: 12 Aug 2025 20:46

Instrument :

BNA_P

ClientSampleId :

SU-04-081125

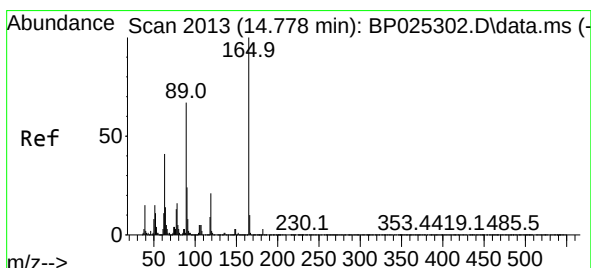
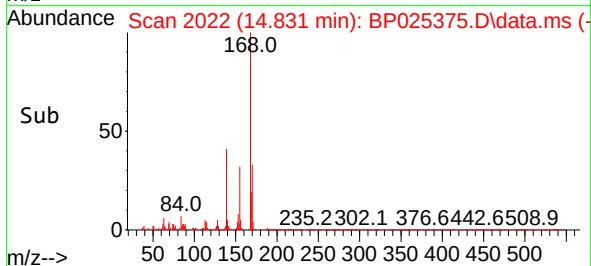
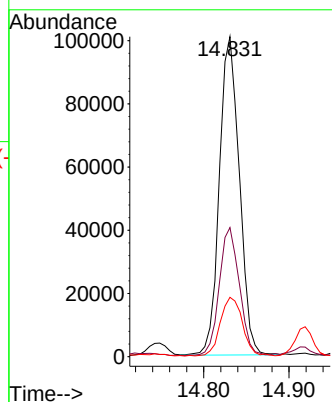
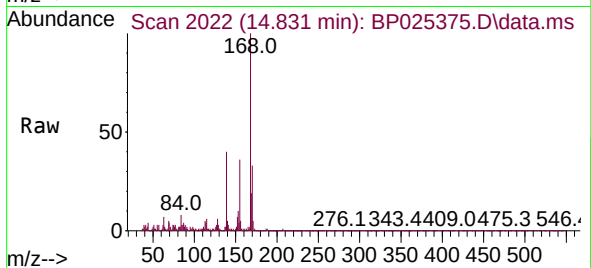
Tgt Ion:168 Resp: 164319

Ion Ratio Lower Upper

168 100

139 40.3 30.5 45.7

169 18.5 10.6 15.8#



#57

2,4-Dinitrotoluene

Concen: 3.365 ng

RT: 14.790 min Scan# 2015

Delta R.T. 0.012 min

Lab File: BP025375.D

Acq: 12 Aug 2025 20:46

Tgt Ion:165 Resp: 1318

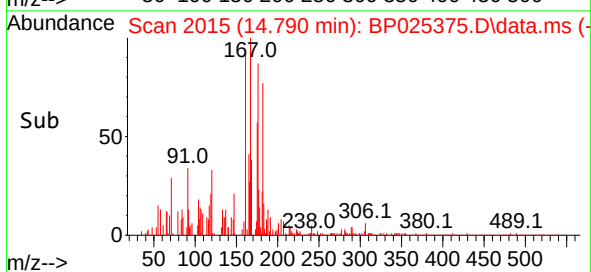
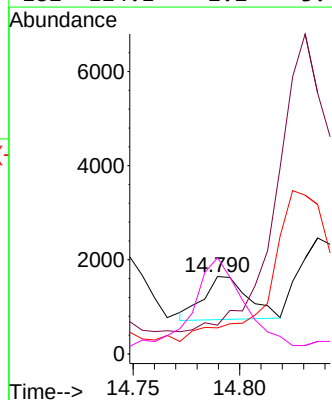
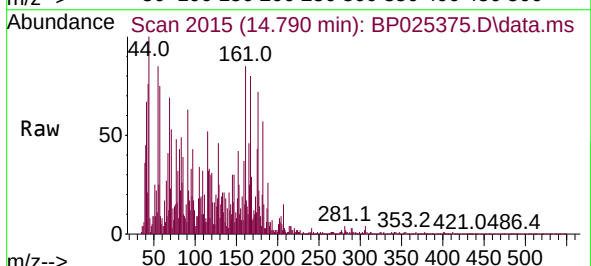
Ion Ratio Lower Upper

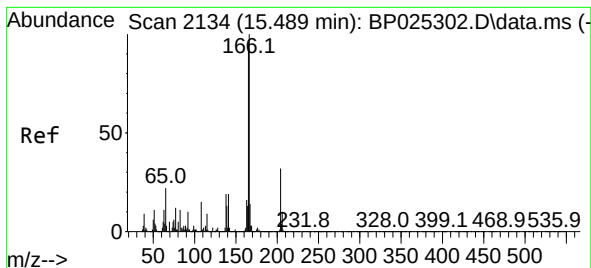
165 100

63 37.1 33.2 49.8

89 33.7 53.5 80.3#

182 124.1 2.2 3.4#





#58

Fluorene

Concen: 10.678 ng

RT: 15.490 min Scan# 2134

Delta R.T. 0.000 min

Lab File: BP025375.D

Acq: 12 Aug 2025 20:46

Instrument :

BNA_P

ClientSampleId :

SU-04-081125

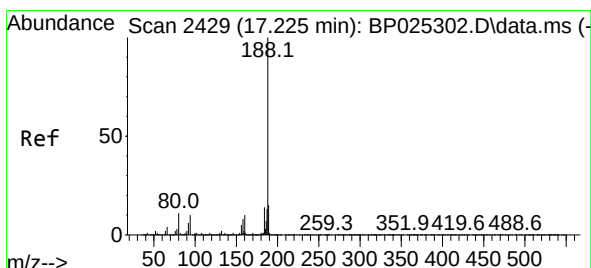
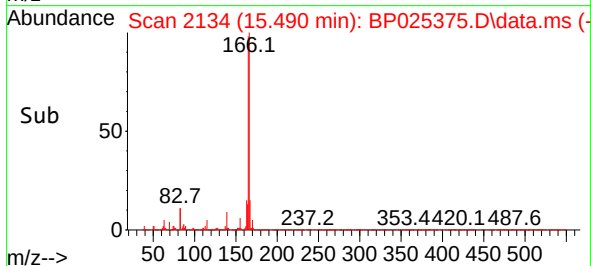
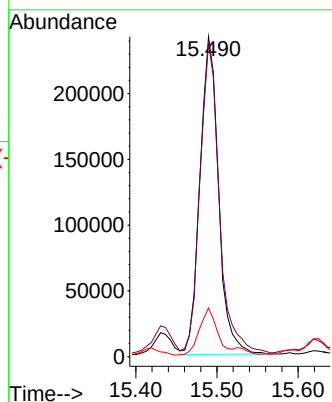
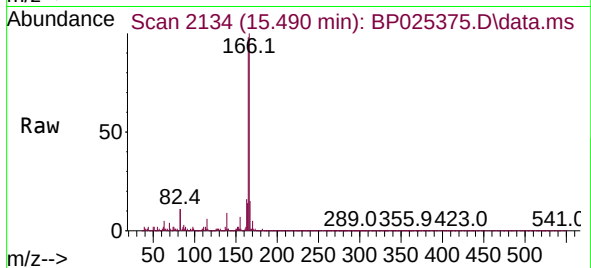
Tgt Ion:166 Resp: 385627

Ion Ratio Lower Upper

166 100

165 97.9 76.7 115.1

167 15.2 10.9 16.3



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.231 min Scan# 2430

Delta R.T. 0.006 min

Lab File: BP025375.D

Acq: 12 Aug 2025 20:46

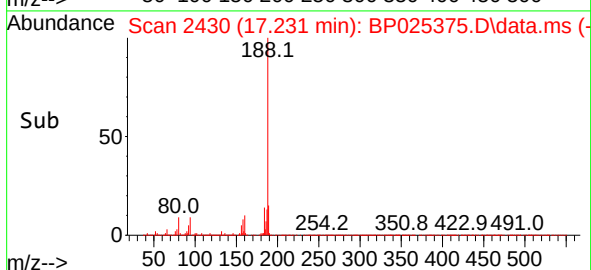
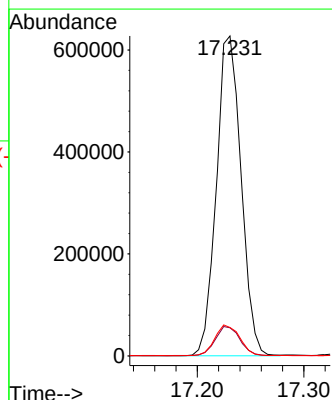
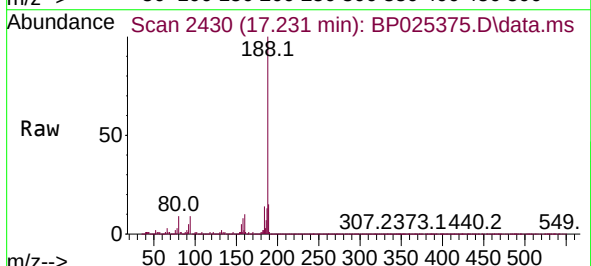
Tgt Ion:188 Resp: 1013611

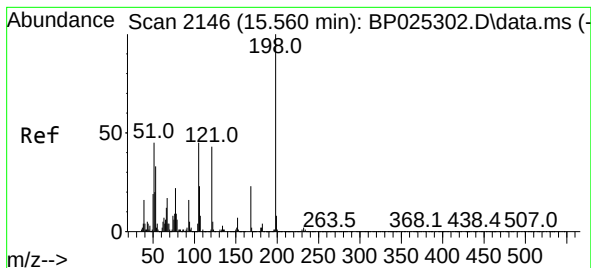
Ion Ratio Lower Upper

188 100

94 8.8 8.0 12.0

80 8.9 8.5 12.7

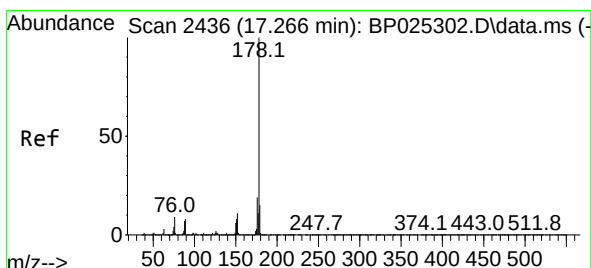
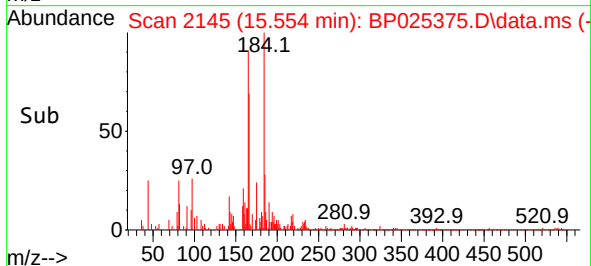
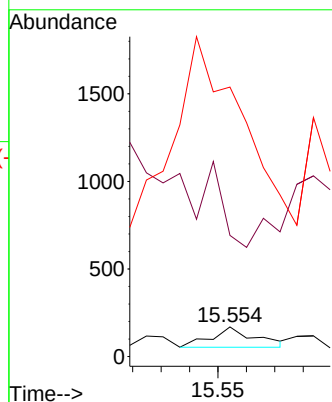
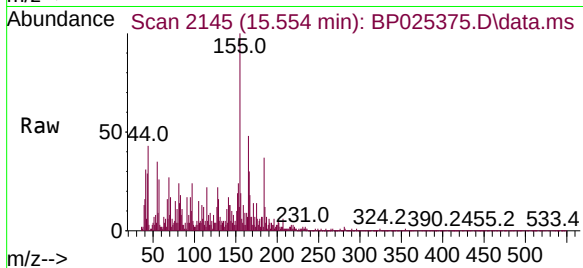




#65
4,6-Dinitro-2-methylphenol
Concen: 4.868 ng
RT: 15.554 min Scan# 2146
Delta R.T. -0.006 min
Lab File: BP025375.D
Acq: 12 Aug 2025 20:46

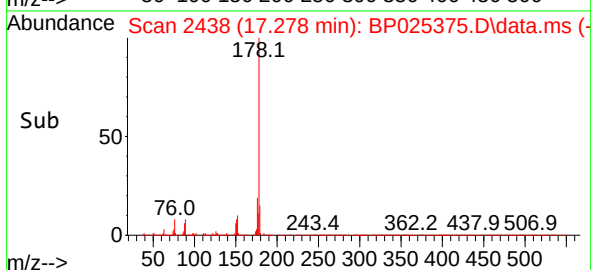
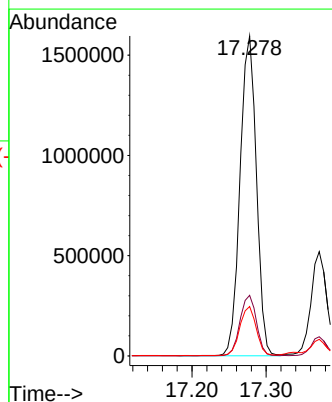
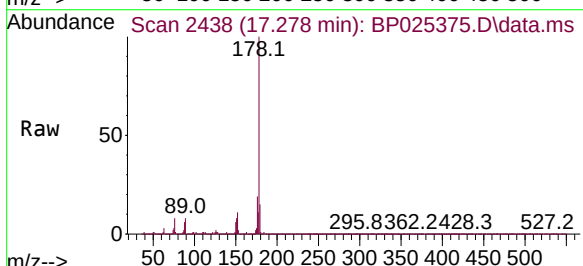
Instrument :
BNA_P
ClientSampleId :
SU-04-081125

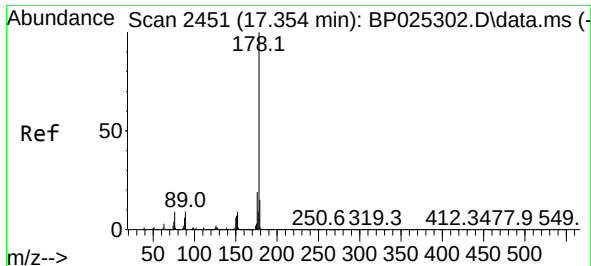
Tgt Ion:198 Resp: 125
Ion Ratio Lower Upper
198 100
51 409.5 26.7 66.7#
105 910.7 25.6 65.6#



#71
Phenanthrene
Concen: 44.029 ng
RT: 17.278 min Scan# 2438
Delta R.T. 0.012 min
Lab File: BP025375.D
Acq: 12 Aug 2025 20:46

Tgt Ion:178 Resp: 2444356
Ion Ratio Lower Upper
178 100
176 19.0 15.3 22.9
179 15.4 12.1 18.1

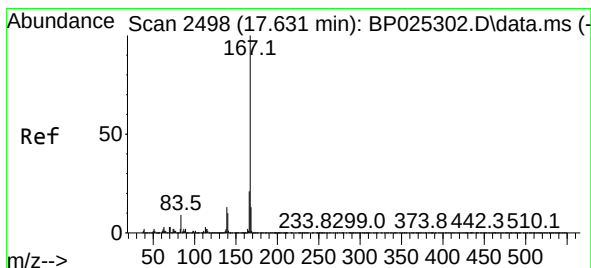
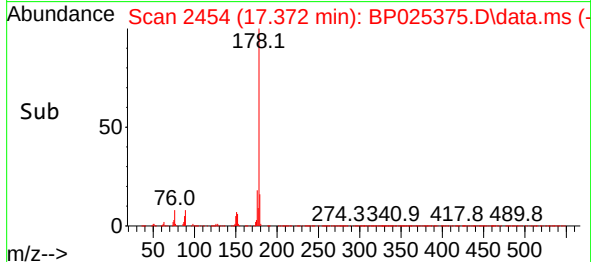
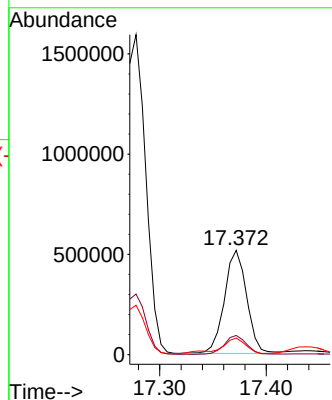
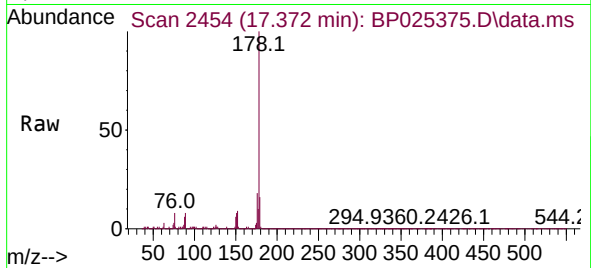




#72
 Anthracene
 Concen: 13.367 ng
 RT: 17.372 min Scan# 2451
 Delta R.T. 0.018 min
 Lab File: BP025375.D
 Acq: 12 Aug 2025 20:46

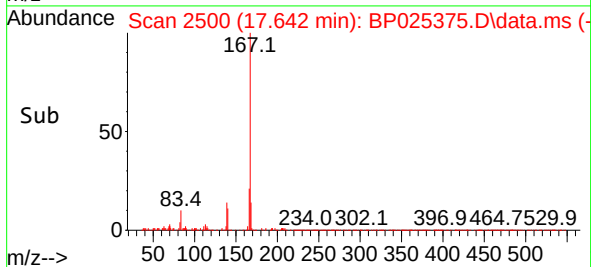
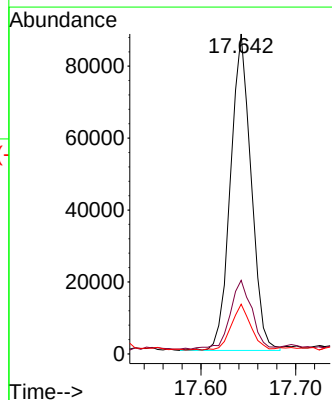
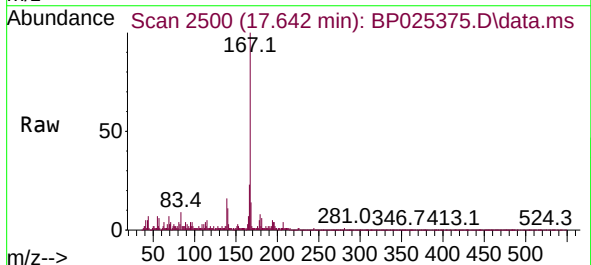
Instrument :
 BNA_P
 ClientSampleId :
 SU-04-081125

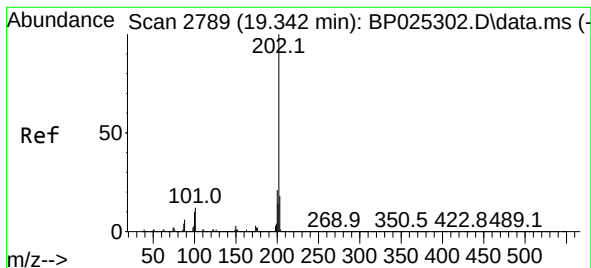
Tgt Ion:178 Resp: 748236
 Ion Ratio Lower Upper
 178 100
 176 18.4 14.8 22.2
 179 15.9 12.3 18.5



#73
 Carbazole
 Concen: 2.482 ng
 RT: 17.642 min Scan# 2500
 Delta R.T. 0.011 min
 Lab File: BP025375.D
 Acq: 12 Aug 2025 20:46

Tgt Ion:167 Resp: 133364
 Ion Ratio Lower Upper
 167 100
 166 23.0 17.0 25.6
 139 15.5 10.6 16.0





#75

Fluoranthene

Concen: 44.664 ng

RT: 19.354 min Scan# 21

Delta R.T. 0.012 min

Lab File: BP025375.D

Acq: 12 Aug 2025 20:46

Instrument :

BNA_P

ClientSampleId :

SU-04-081125

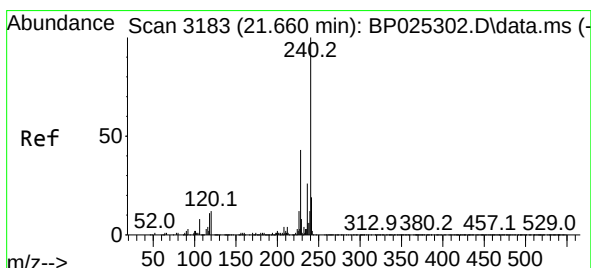
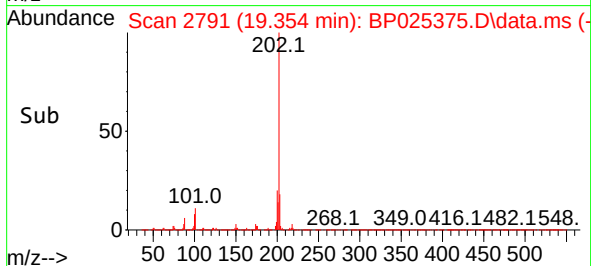
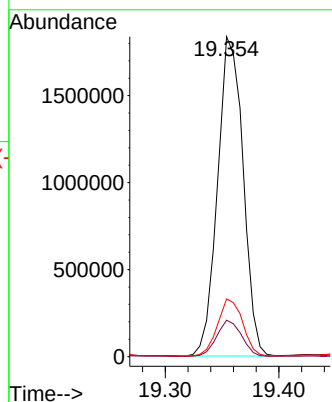
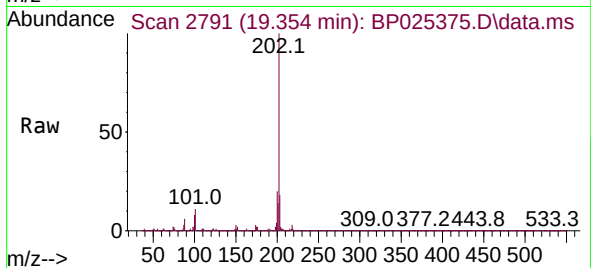
Tgt Ion:202 Resp: 2870450

Ion Ratio Lower Upper

202 100

101 11.4 0.0 32.5

203 18.0 0.0 37.6



#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.677 min Scan# 3186

Delta R.T. 0.017 min

Lab File: BP025375.D

Acq: 12 Aug 2025 20:46

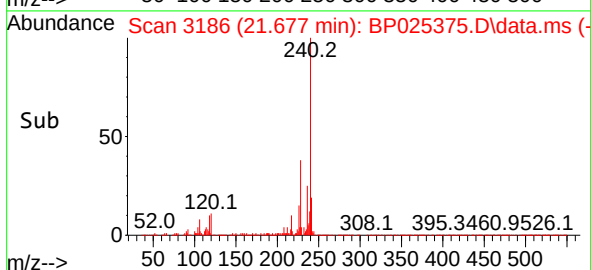
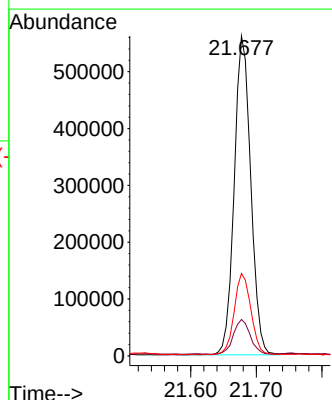
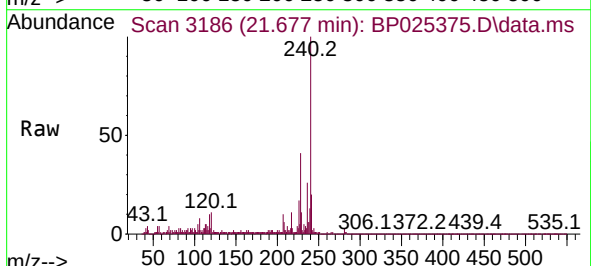
Tgt Ion:240 Resp: 979275

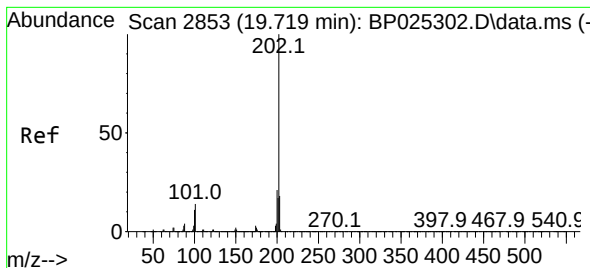
Ion Ratio Lower Upper

240 100

120 11.4 9.6 14.4

236 25.8 20.4 30.6





#78

Pyrene

Concen: 45.498 ng

RT: 19.736 min Scan# 2853

Delta R.T. 0.017 min

Lab File: BP025375.D

Acq: 12 Aug 2025 20:46

Instrument :

BNA_P

ClientSampleId :

SU-04-081125

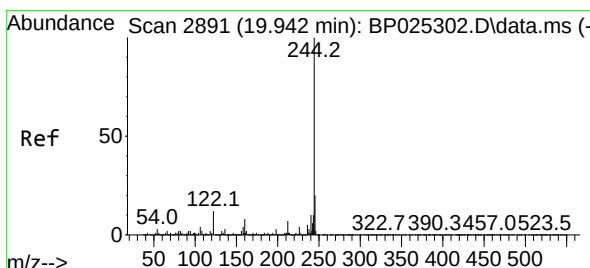
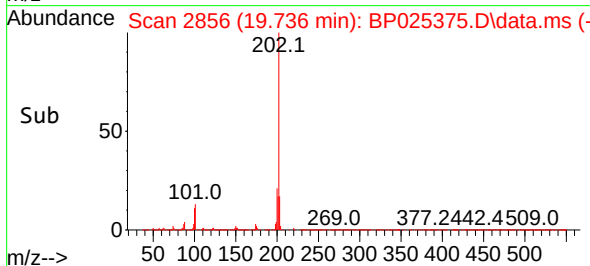
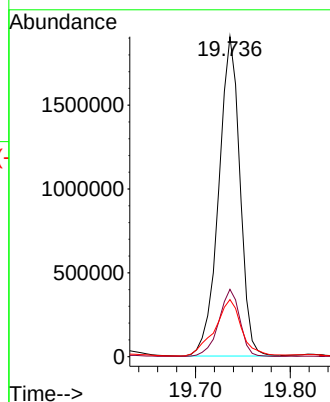
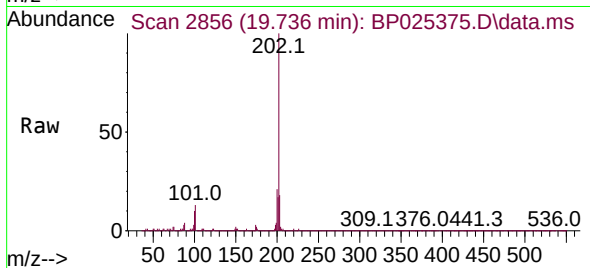
Tgt Ion:202 Resp: 2962848

Ion Ratio Lower Upper

202 100

200 21.0 16.7 25.1

203 17.8 14.1 21.1



#79

Terphenyl-d14

Concen: 25.716 ng

RT: 19.948 min Scan# 2892

Delta R.T. 0.006 min

Lab File: BP025375.D

Acq: 12 Aug 2025 20:46

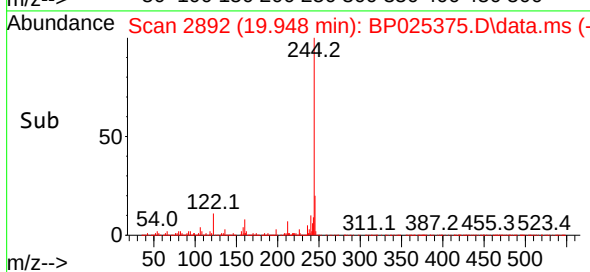
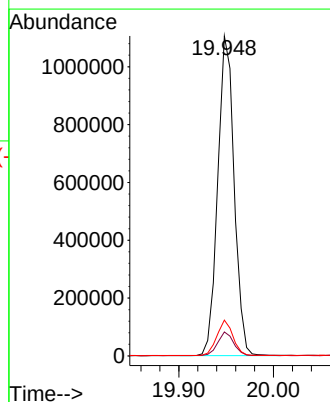
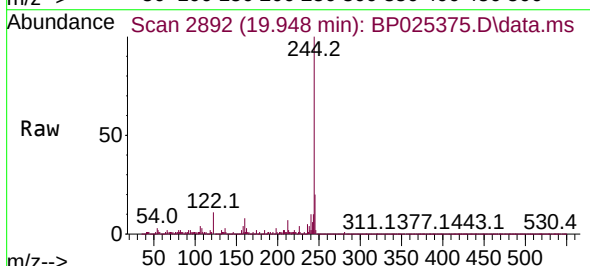
Tgt Ion:244 Resp: 1333308

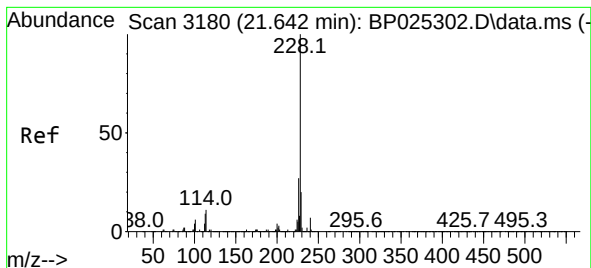
Ion Ratio Lower Upper

244 100

212 7.5 5.9 8.9

122 11.2 9.5 14.3





#81

Benzo(a)anthracene

Concen: 19.871 ng

RT: 21.730 min Scan# 3180

Delta R.T. 0.088 min

Lab File: BP025375.D

Acq: 12 Aug 2025 20:46

Instrument :

BNA_P

ClientSampleId :

SU-04-081125

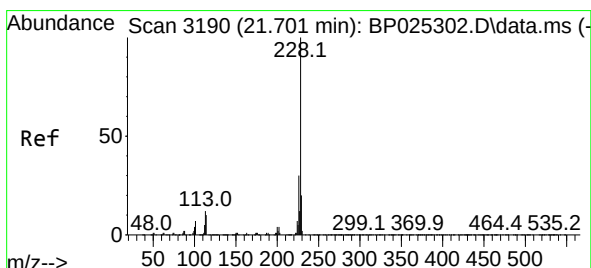
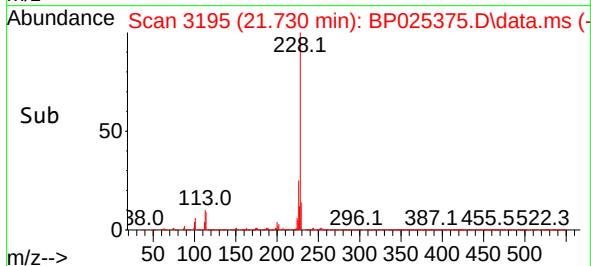
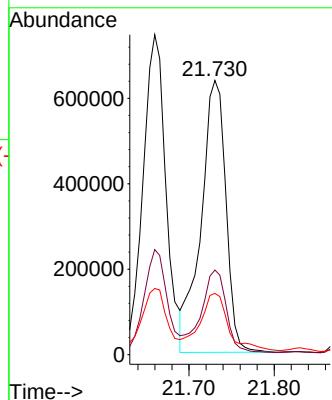
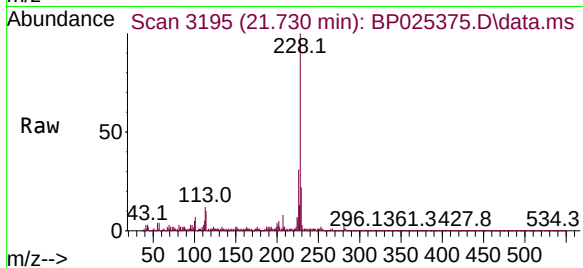
Tgt Ion:228 Resp: 1293131

Ion Ratio Lower Upper

228 100

226 30.9 21.8 32.8

229 22.3 16.0 24.0



#83

Chrysene

Concen: 21.424 ng

RT: 21.730 min Scan# 3195

Delta R.T. 0.029 min

Lab File: BP025375.D

Acq: 12 Aug 2025 20:46

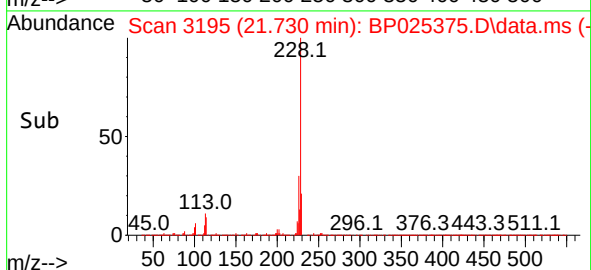
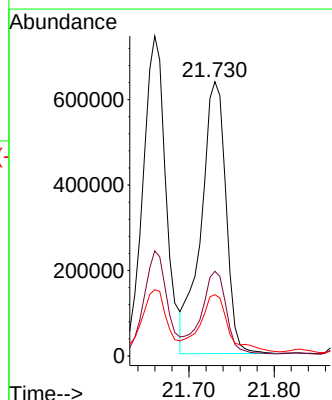
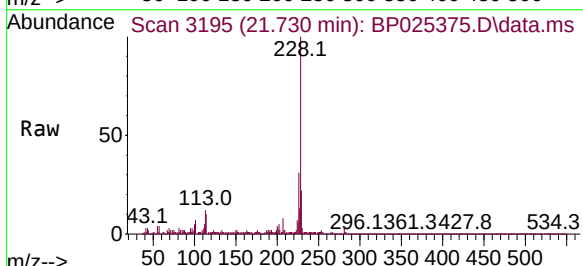
Tgt Ion:228 Resp: 1293131

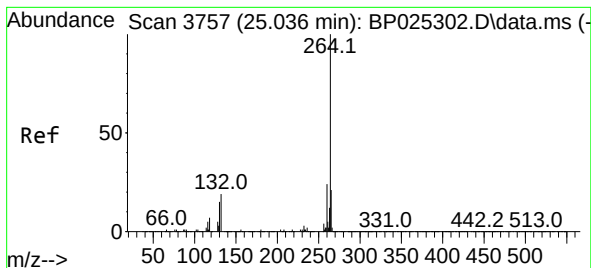
Ion Ratio Lower Upper

228 100

226 30.9 24.3 36.5

229 22.3 15.9 23.9





#86

Perylene-d12

Concen: 20.000 ng

RT: 25.065 min Scan# 31

Delta R.T. 0.029 min

Lab File: BP025375.D

Acq: 12 Aug 2025 20:46

Instrument :

BNA_P

ClientSampleId :

SU-04-081125

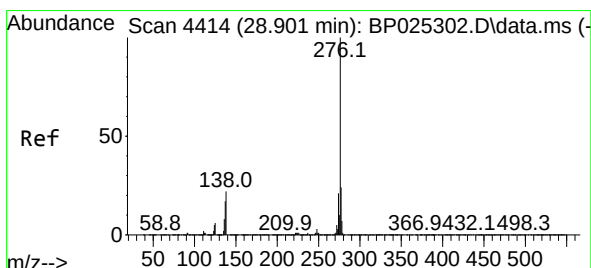
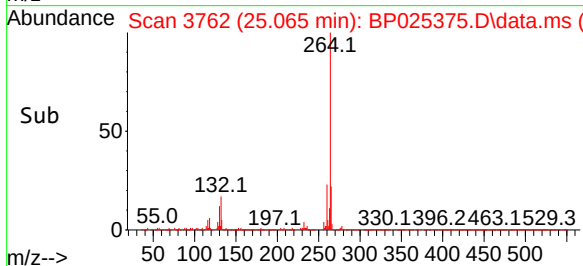
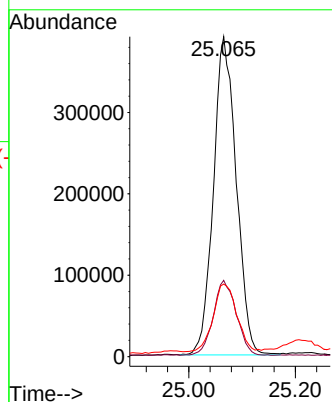
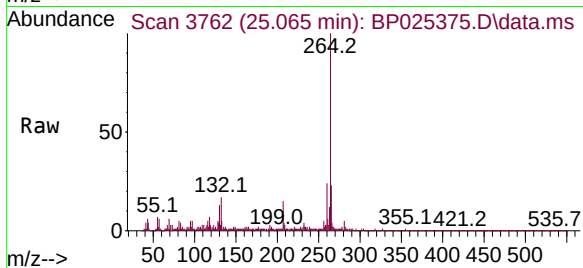
Tgt Ion:264 Resp: 1164191

Ion Ratio Lower Upper

264 100

260 23.8 19.2 28.8

265 22.7 17.1 25.7



#87

Indeno(1,2,3-cd)pyrene

Concen: 9.161 ng

RT: 28.948 min Scan# 4422

Delta R.T. 0.047 min

Lab File: BP025375.D

Acq: 12 Aug 2025 20:46

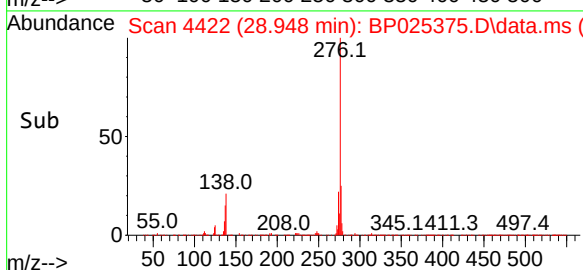
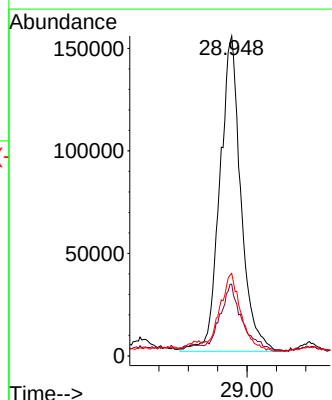
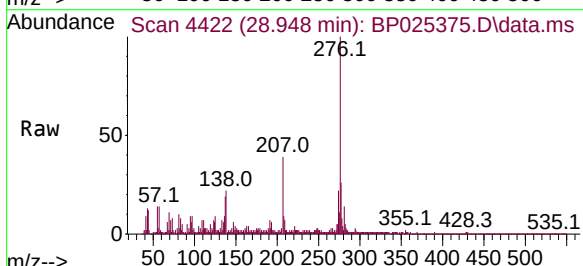
Tgt Ion:276 Resp: 764433

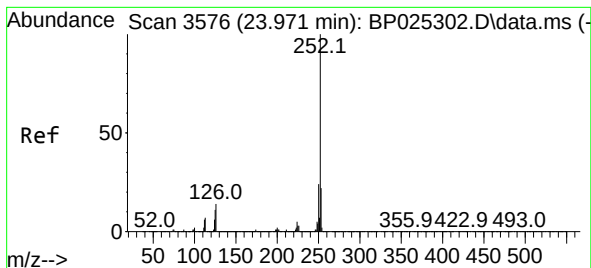
Ion Ratio Lower Upper

276 100

138 22.1 14.6 22.0#

277 24.5 16.8 25.2





#88

Benzo(b)fluoranthene

Concen: 21.448 ng

RT: 24.001 min Scan# 3581

Delta R.T. 0.030 min

Lab File: BP025375.D

Acq: 12 Aug 2025 20:46

Instrument :

BNA_P

ClientSampleId :

SU-04-081125

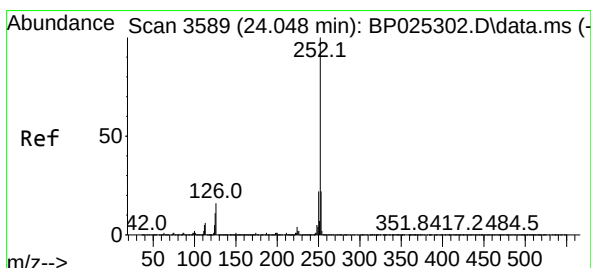
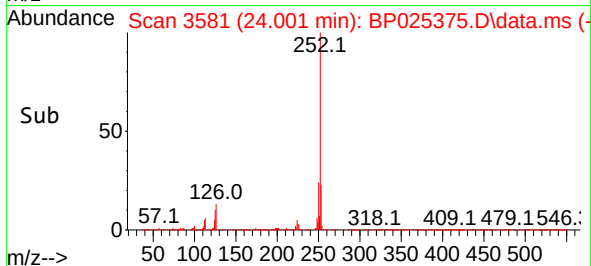
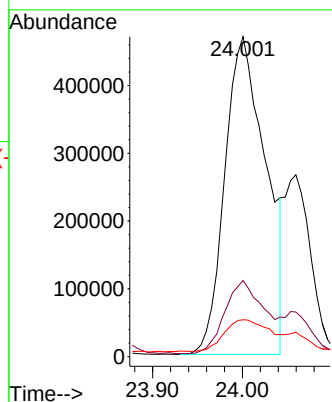
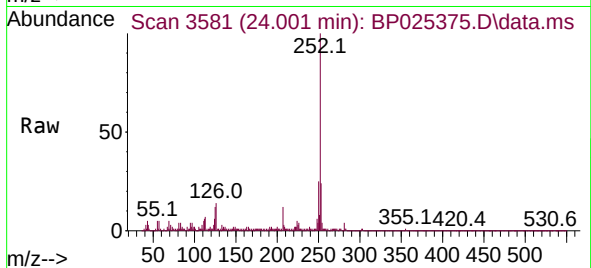
Tgt Ion:252 Resp: 1494717

Ion Ratio Lower Upper

252 100

253 23.8 17.5 26.3

125 11.5 8.5 12.7



#89

Benzo(k)fluoranthene

Concen: 21.636 ng

RT: 24.001 min Scan# 3581

Delta R.T. -0.047 min

Lab File: BP025375.D

Acq: 12 Aug 2025 20:46

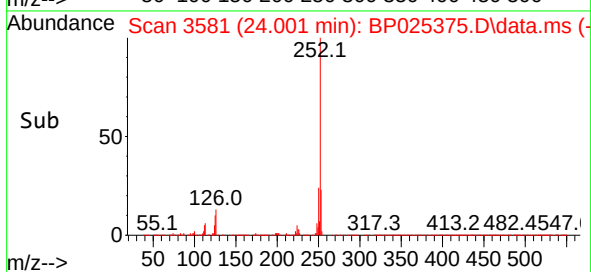
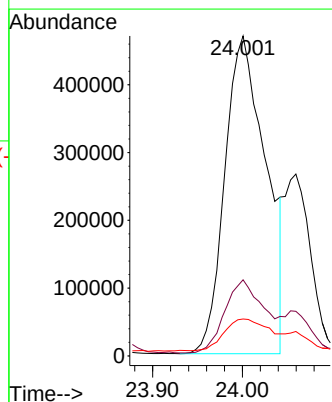
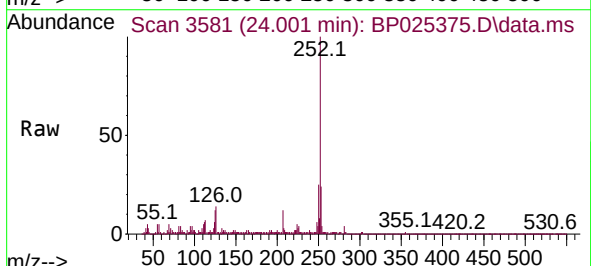
Tgt Ion:252 Resp: 1494717

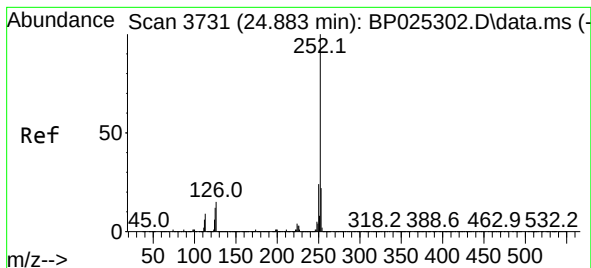
Ion Ratio Lower Upper

252 100

253 23.8 17.6 26.4

125 11.5 8.5 12.7





#90

Benzo(a)pyrene

Concen: 18.529 ng

RT: 24.907 min Scan# 31

Delta R.T. 0.024 min

Lab File: BP025375.D

Acq: 12 Aug 2025 20:46

Instrument :

BNA_P

ClientSampleId :

SU-04-081125

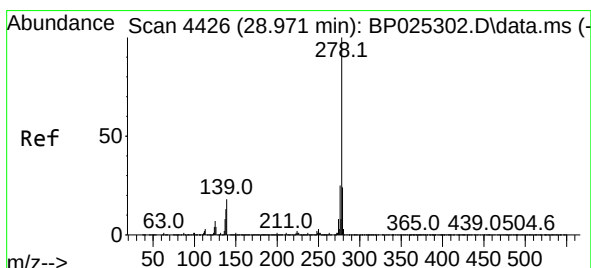
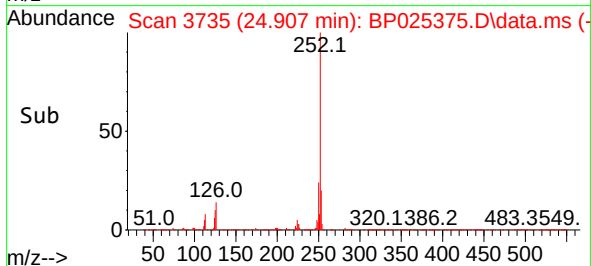
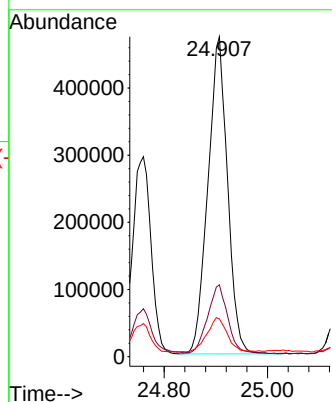
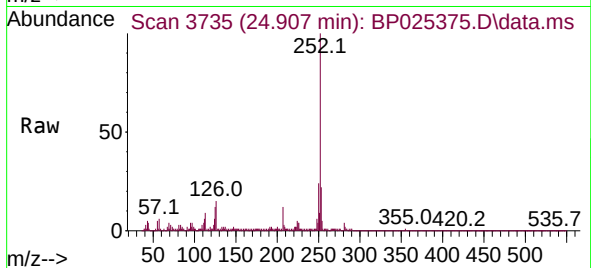
Tgt Ion:252 Resp: 1243517

Ion Ratio Lower Upper

252 100

253 22.4 17.6 26.4

125 11.8 9.4 14.0



#91

Dibenzo(a,h)anthracene

Concen: 3.138 ng

RT: 29.018 min Scan# 4434

Delta R.T. 0.047 min

Lab File: BP025375.D

Acq: 12 Aug 2025 20:46

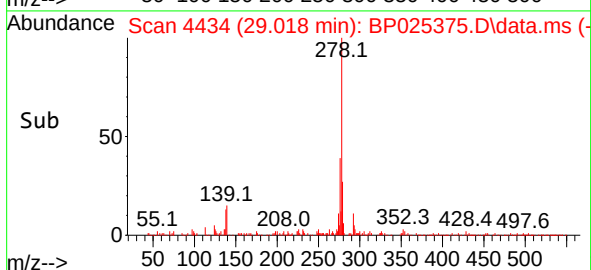
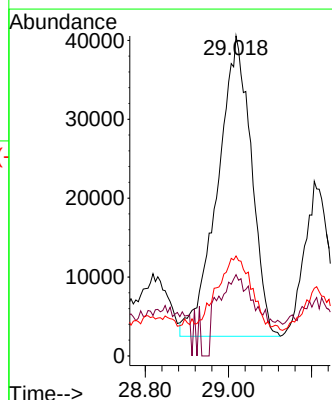
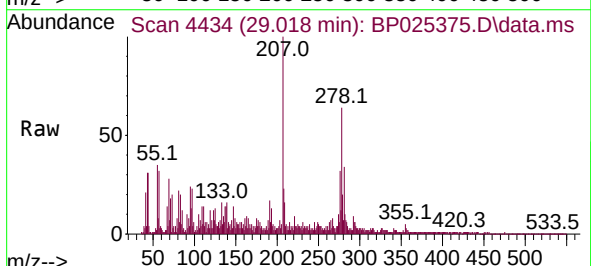
Tgt Ion:278 Resp: 214459

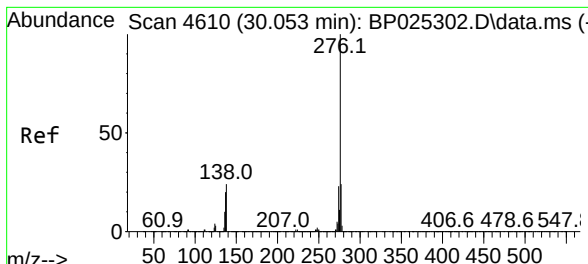
Ion Ratio Lower Upper

278 100

139 25.4 14.6 22.0#

279 31.2 19.0 28.4#





#92
 Benzo(g,h,i)perylene
 Concen: 10.321 ng
 RT: 30.136 min Scan# 4610
 Delta R.T. 0.083 min
 Lab File: BP025375.D
 Acq: 12 Aug 2025 20:46

Instrument :
 BNA_P
 ClientSampleId :
 SU-04-081125

Tgt Ion:	276	Resp:	692217
Ion Ratio	Lower	Upper	
276	100		
277	24.2	19.3	28.9
138	23.6	19.1	28.7

