

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082625\
 Data File : BP025584.D
 Acq On : 26 Aug 2025 13:51
 Operator : CG/JU
 Sample : Q2932-03
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 ARS20-0002-SOIL

Quant Time: Aug 26 14:19:06 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Aug 14 18:14:31 2025
 Response via : Initial Calibration

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

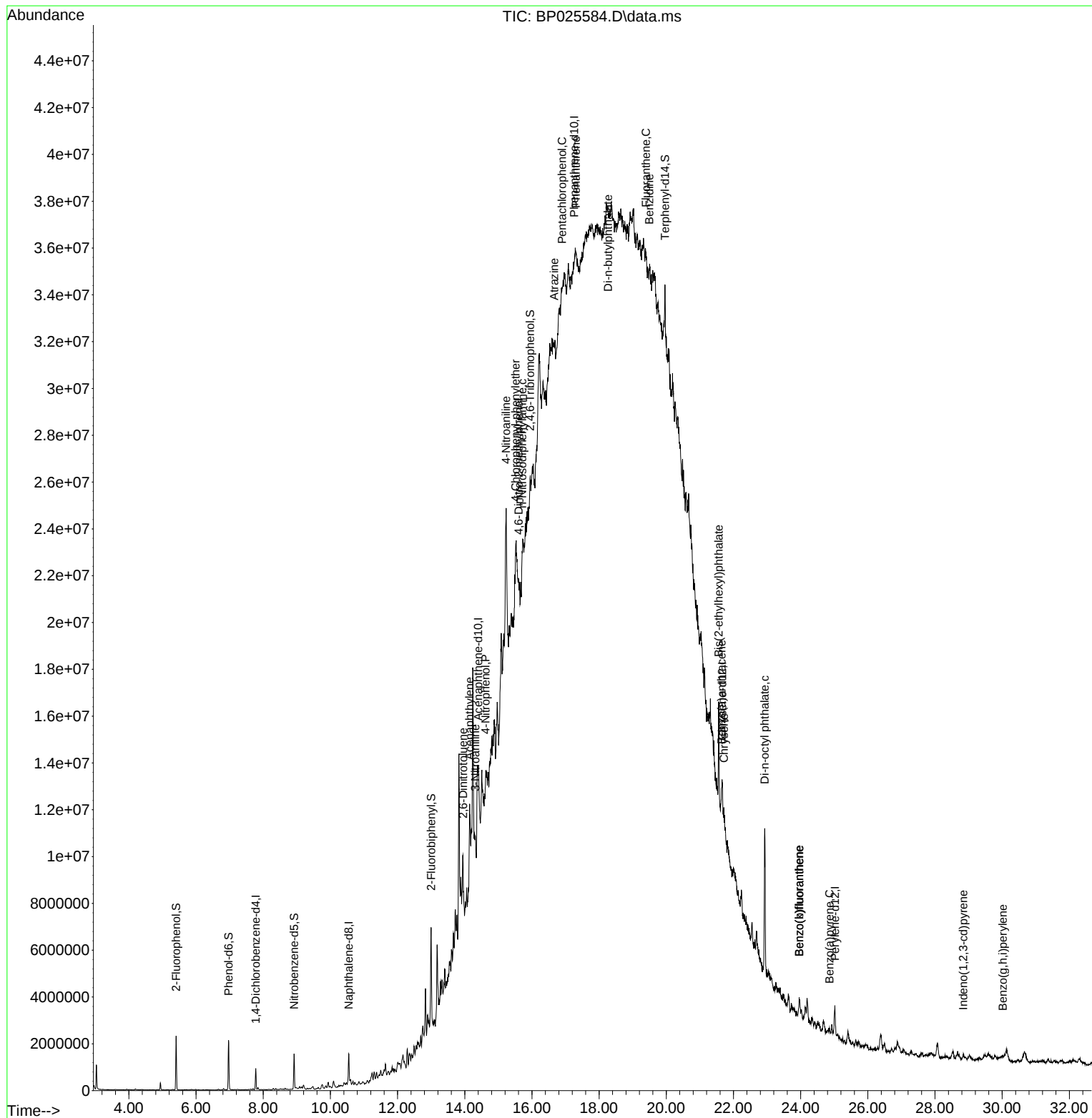
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.778	152	252339	20.000	ng	-0.02
21) Naphthalene-d8	10.543	136	970841	20.000	ng	#-0.02
39) Acenaphthene-d10	14.401	164	487092	20.000	ng	0.00
64) Phenanthrene-d10	17.260	188	513622	20.000	ng	# 0.06
76) Chrysene-d12	21.666	240	1037204	20.000	ng	# 0.02
86) Perylene-d12	25.018	264	1292008	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.408	112	1025694	67.503	ng	0.00
7) Phenol-d6	6.966	99	1293509	66.399	ng	0.00
23) Nitrobenzene-d5	8.919	82	874086	45.544	ng	-0.02
42) 2,4,6-Tribromophenol	15.948	330	494545	75.430	ng	0.04
45) 2-Fluorobiphenyl	13.001	172	1843314	51.720	ng	-0.02
79) Terphenyl-d14	19.960	244	1959713	34.568	ng	0.04
Target Compounds						Qvalue
49) Acenaphthylene	14.142	152	222274	4.878	ng	# 1
51) 2,6-Dinitrotoluene	13.948	165	97255	12.936	ng	# 48
53) 3-Nitroaniline	14.313	138	170274	20.130	ng	# 22
56) 4-Nitrophenol	14.619	139	44178	6.356	ng	# 1
61) 4-Chlorophenyl-phenyle...	15.513	204	128883	7.766	ng	# 1
62) 4-Nitroaniline	15.231	138	235999	27.216	ng	# 81
65) 4,6-Dinitro-2-methylph...	15.607	198	6914	2.159	ng	# 1
66) n-Nitrosodiphenylamine	15.713	169	441041	28.159	ng	# 47
69) Atrazine	16.660	200	32874	5.605	ng	# 1
70) Pentachlorophenol	16.895	266	11241	2.719	ng	# 31
71) Phenanthrene	17.307	178	821502	29.116	ng	# 6
74) Di-n-butylphthalate	18.266	149	422091	12.641	ng	# 33
75) Fluoranthene	19.395	202	540852	16.070	ng	# 57
77) Benzidine	19.489	184	112711	3.184	ng	# 1
81) Benzo(a)anthracene	21.642	228	327945	4.794	ng	# 75
83) Chrysene	21.713	228	376619	5.879	ng	# 80
84) Bis(2-ethylhexyl)phtha...	21.560	149	2310526	51.372	ng	# 94
85) Di-n-octyl phthalate	22.930	149	1427263	18.449	ng	# 59
87) Indeno(1,2,3-cd)pyrene	28.842	276	311607	3.289	ng	# 92
88) Benzo(b)fluoranthene	23.960	252	661036	8.677	ng	# 88
89) Benzo(k)fluoranthene	23.960	252	661036	8.671	ng	# 87
90) Benzo(a)pyrene	24.860	252	275457	3.714	ng	# 82
92) Benzo(g,h,i)perylene	30.018	276	280597	3.687	ng	# 94

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

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Quant Time: Aug 26 14:19:06 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 2025
Response via : Initial Calibration

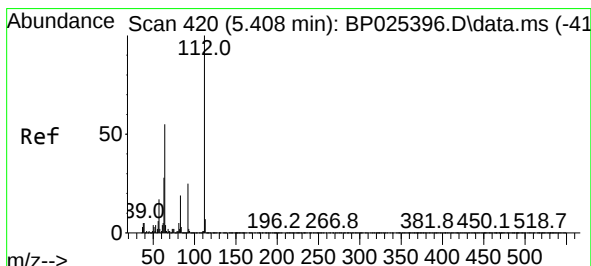
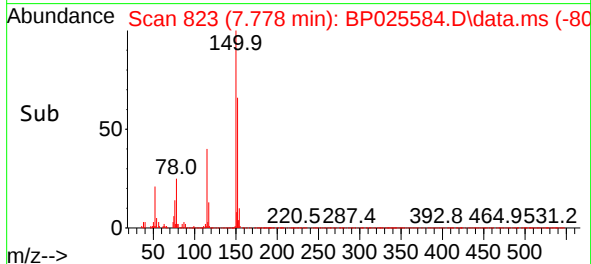
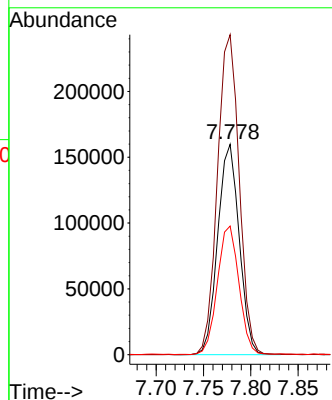
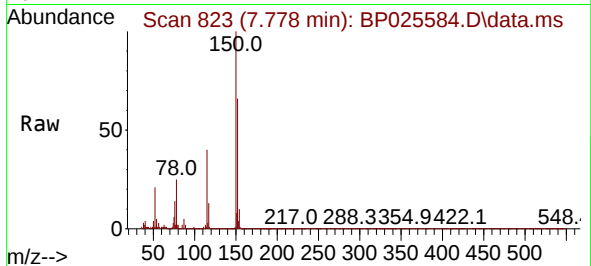




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 7.778 min Scan# 81
 Delta R.T. -0.018 min
 Lab File: BP025584.D
 Acq: 26 Aug 2025 13:51

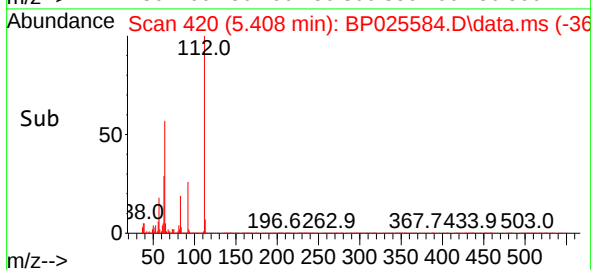
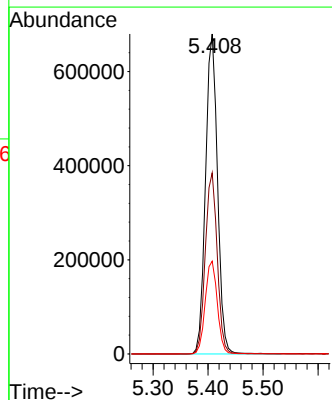
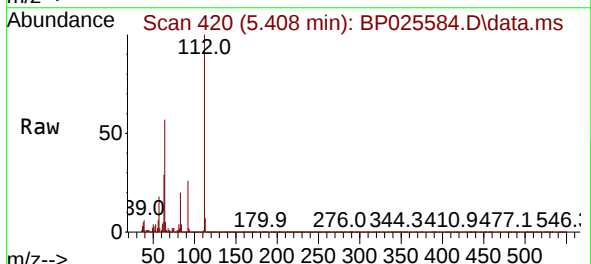
Instrument :
 BNA_P
 ClientSampleId :
 ARS20-0002-SOIL

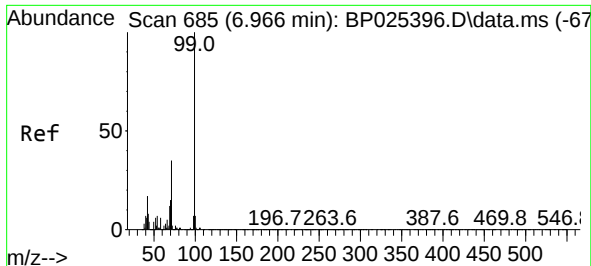
Tgt Ion:152 Resp: 252339
 Ion Ratio Lower Upper
 152 100
 150 152.1 125.9 188.9
 115 61.2 48.5 72.7



#5
 2-Fluorophenol
 Concen: 67.503 ng
 RT: 5.408 min Scan# 420
 Delta R.T. 0.000 min
 Lab File: BP025584.D
 Acq: 26 Aug 2025 13:51

Tgt Ion:112 Resp: 1025694
 Ion Ratio Lower Upper
 112 100
 64 56.6 43.8 65.8
 63 29.0 22.7 34.1



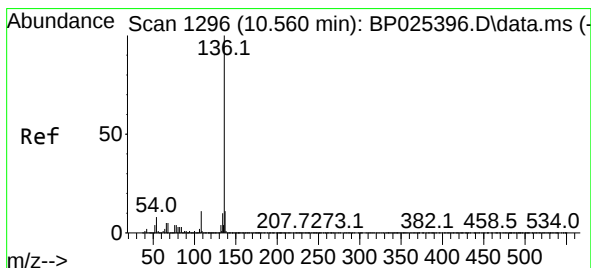
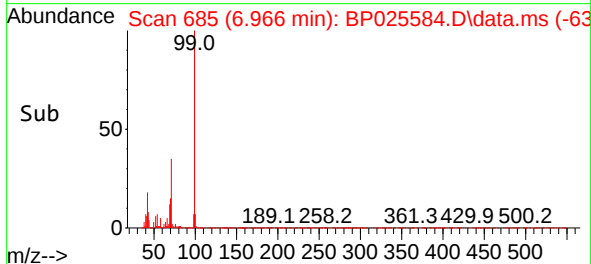
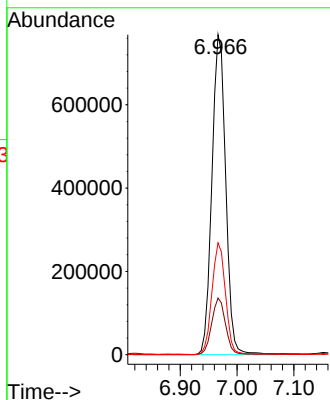
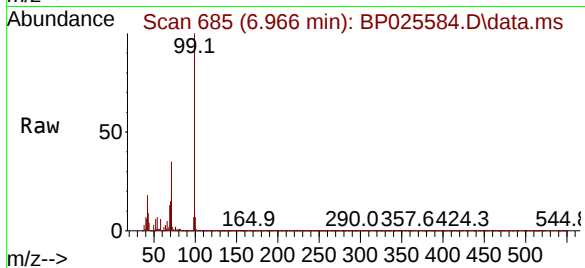


#7
Phenol-d6
Concen: 66.399 ng
RT: 6.966 min Scan# 61
Delta R.T. 0.000 min
Lab File: BP025584.D
Acq: 26 Aug 2025 13:51

Instrument :
BNA_P
ClientSampleId :
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Tgt Ion: 99 Resp: 1293509

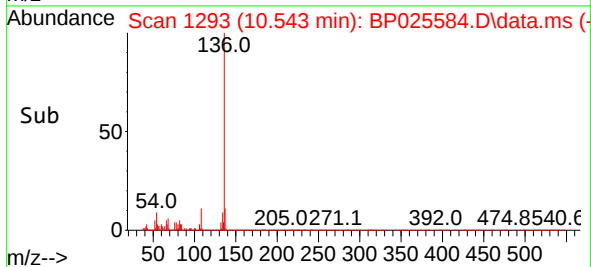
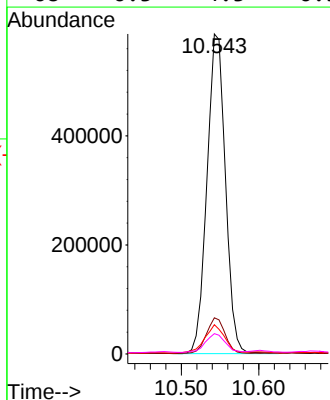
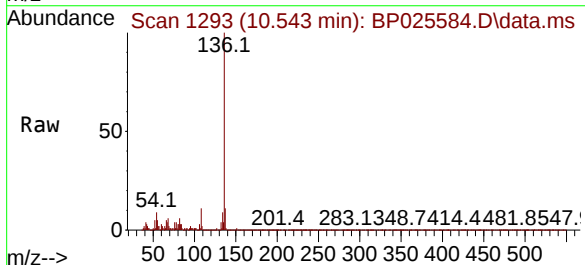
Ion	Ratio	Lower	Upper
99	100		
42	17.7	13.7	20.5
71	34.9	28.2	42.4



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.543 min Scan# 1293
Delta R.T. -0.018 min
Lab File: BP025584.D
Acq: 26 Aug 2025 13:51

Tgt Ion: 136 Resp: 970841

Ion	Ratio	Lower	Upper
136	100		
137	11.3	9.2	13.8
54	9.1	6.0	9.0#
68	6.3	4.3	6.5

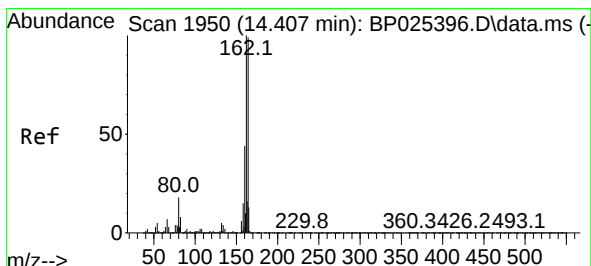
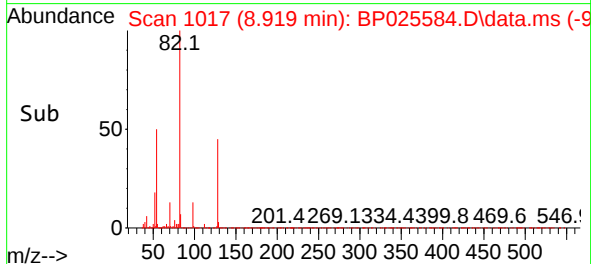
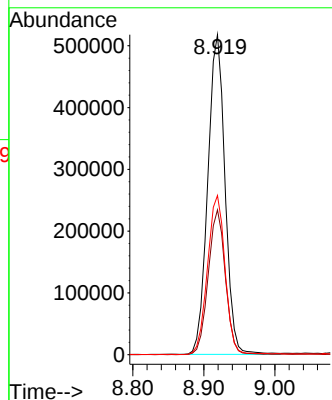
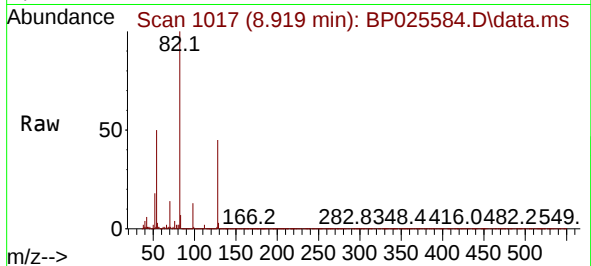




#23
Nitrobenzene-d5
Concen: 45.544 ng
RT: 8.919 min Scan# 1020
Delta R.T. -0.018 min
Lab File: BP025584.D
Acq: 26 Aug 2025 13:51

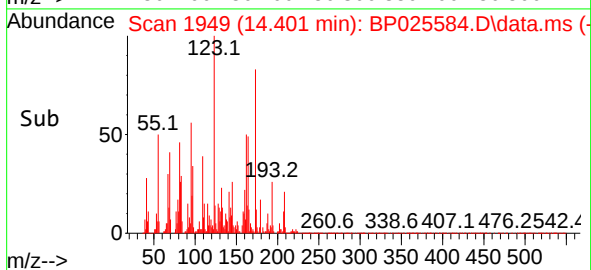
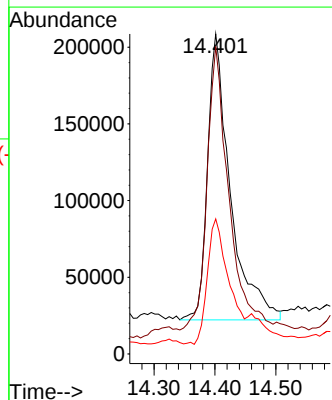
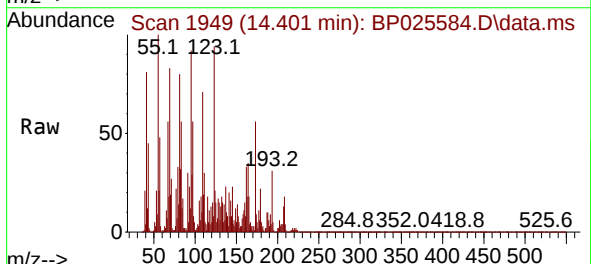
Instrument :
BNA_P
ClientSampleId :
ARS20-0002-SOIL

Tgt Ion: 82 Resp: 874086
Ion Ratio Lower Upper
82 100
128 45.2 37.7 56.5
54 49.7 39.8 59.6



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.401 min Scan# 1949
Delta R.T. -0.006 min
Lab File: BP025584.D
Acq: 26 Aug 2025 13:51

Tgt Ion:164 Resp: 487092
Ion Ratio Lower Upper
164 100
162 96.0 81.0 121.6
160 42.2 35.4 53.2

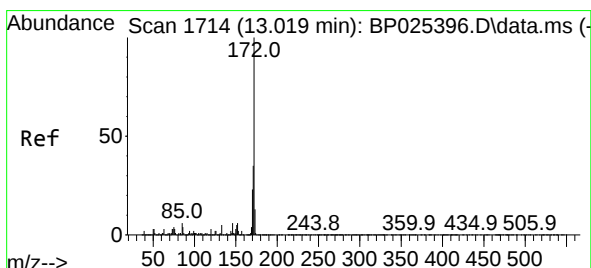
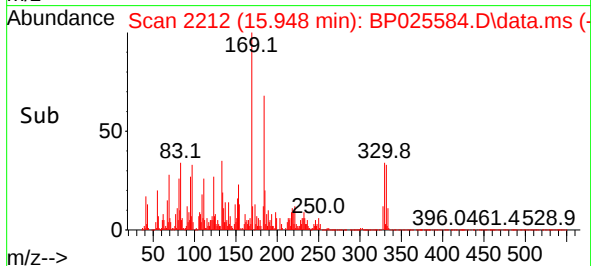
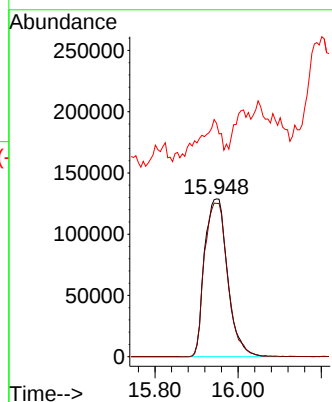
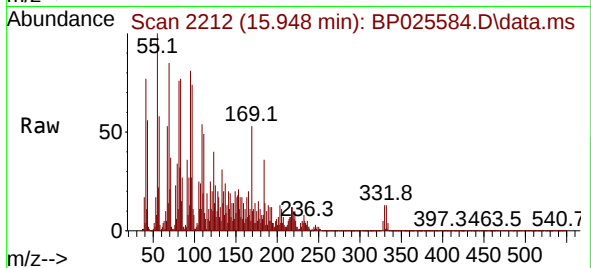




#42
2,4,6-Tribromophenol
Concen: 75.430 ng
RT: 15.948 min Scan# 21
Delta R.T. 0.035 min
Lab File: BP025584.D
Acq: 26 Aug 2025 13:51

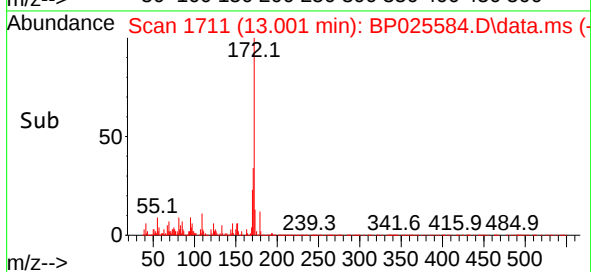
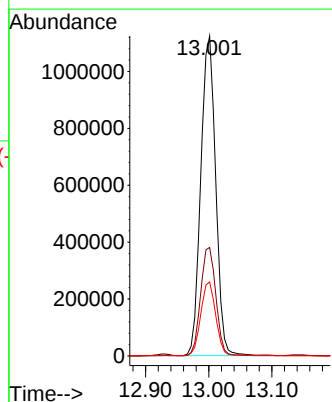
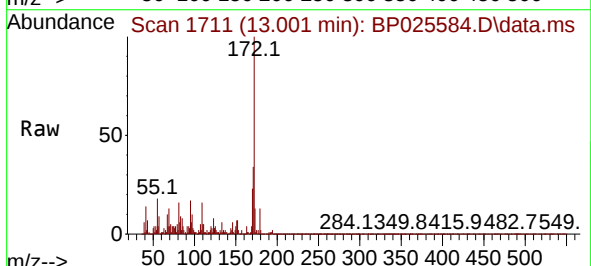
Instrument :
BNA_P
ClientSampleId :
ARS20-0002-SOIL

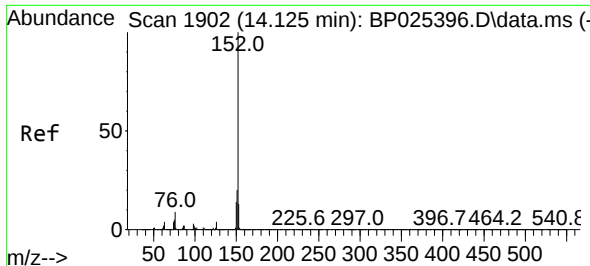
Tgt Ion:330 Resp: 494545
Ion Ratio Lower Upper
330 100
332 98.3 77.3 115.9
141 19.5 26.6 39.8#



#45
2-Fluorobiphenyl
Concen: 51.720 ng
RT: 13.001 min Scan# 1711
Delta R.T. -0.018 min
Lab File: BP025584.D
Acq: 26 Aug 2025 13:51

Tgt Ion:172 Resp: 1843314
Ion Ratio Lower Upper
172 100
171 33.9 28.1 42.1
170 23.1 18.6 28.0

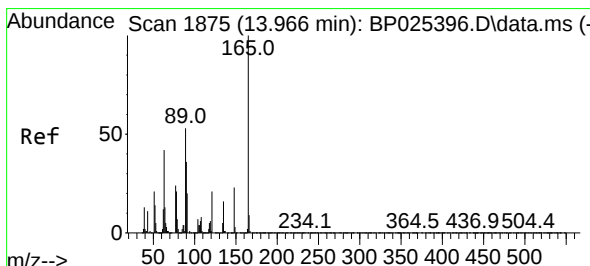
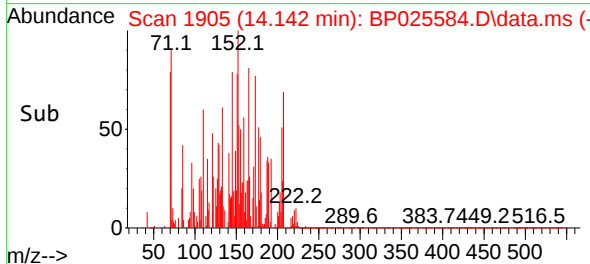
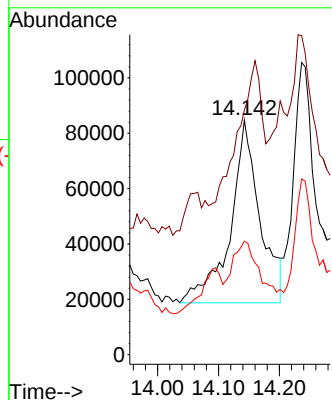
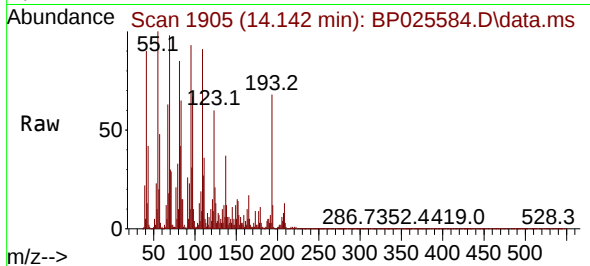




#49
Acenaphthylene
Concen: 4.878 ng
RT: 14.142 min Scan# 1905
Delta R.T. 0.018 min
Lab File: BP025584.D
Acq: 26 Aug 2025 13:51

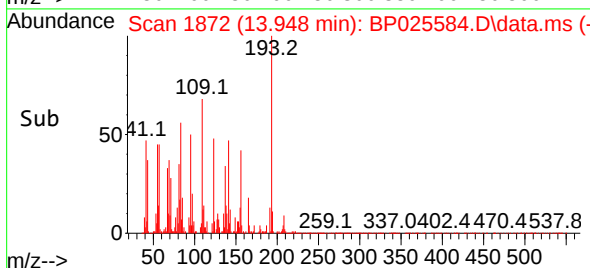
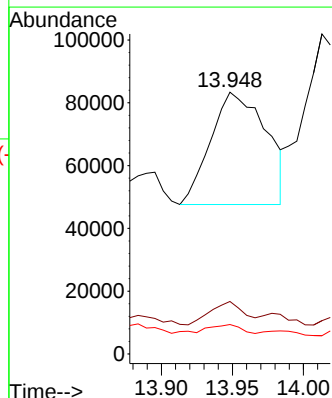
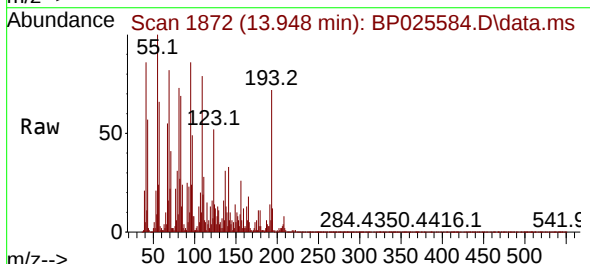
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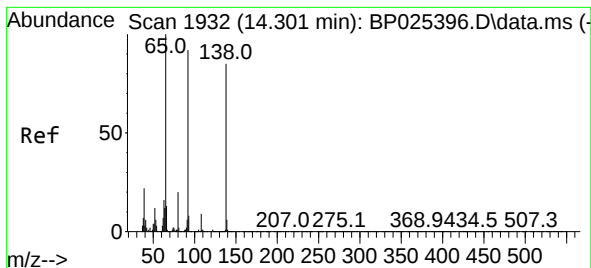
Tgt Ion:152 Resp: 222274
Ion Ratio Lower Upper
152 100
151 104.1 16.0 24.0#
153 48.3 10.6 15.8#



#51
2,6-Dinitrotoluene
Concen: 12.936 ng
RT: 13.948 min Scan# 1872
Delta R.T. -0.018 min
Lab File: BP025584.D
Acq: 26 Aug 2025 13:51

Tgt Ion:165 Resp: 97255
Ion Ratio Lower Upper
165 100
63 20.1 40.9 61.3#
89 11.3 42.1 63.1#

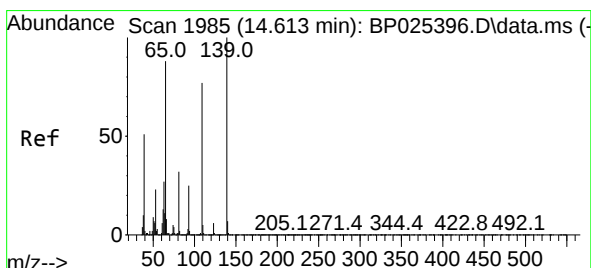
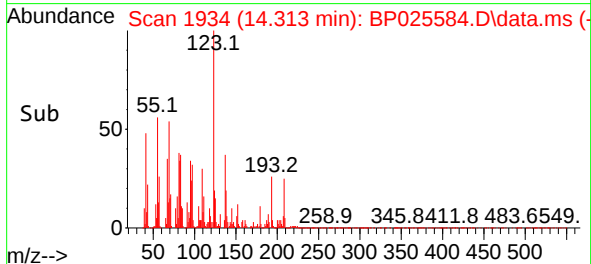
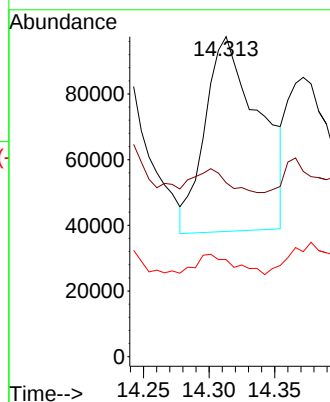
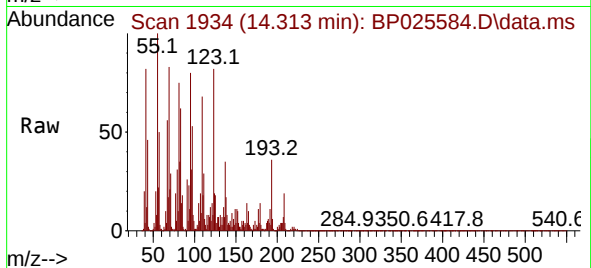




#53
3-Nitroaniline
Concen: 20.130 ng
RT: 14.313 min Scan# 1934
Delta R.T. 0.012 min
Lab File: BP025584.D
Acq: 26 Aug 2025 13:51

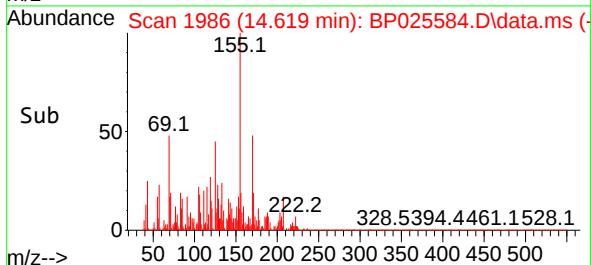
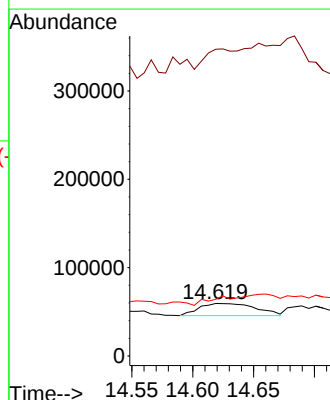
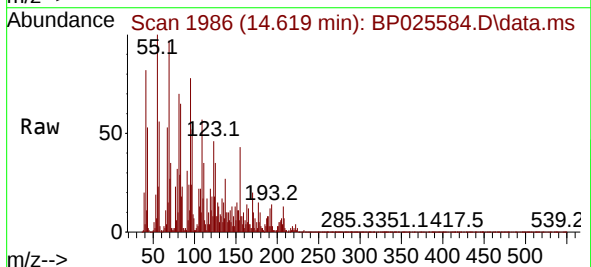
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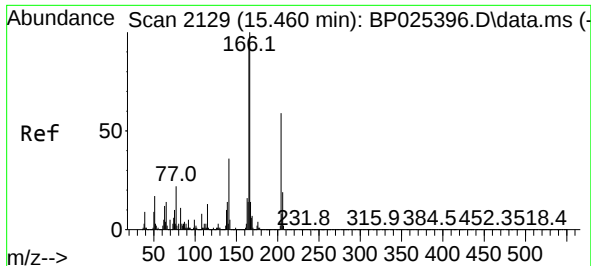
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Ion Ratio Lower Upper
138 100
108 54.3 8.3 12.5#
92 30.4 86.2 129.2#



#56
4-Nitrophenol
Concen: 6.356 ng
RT: 14.619 min Scan# 1986
Delta R.T. 0.006 min
Lab File: BP025584.D
Acq: 26 Aug 2025 13:51

Tgt Ion:139 Resp: 44178
Ion Ratio Lower Upper
139 100
109 583.7 56.6 96.6#
65 107.9 68.2 108.2

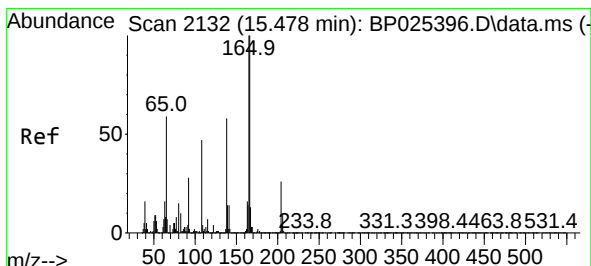
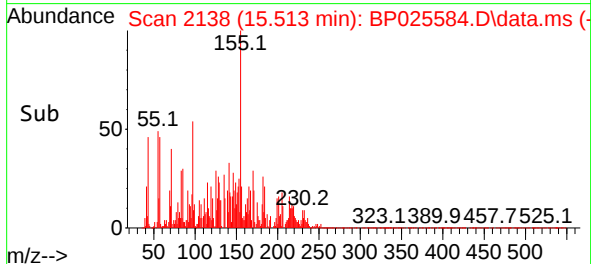
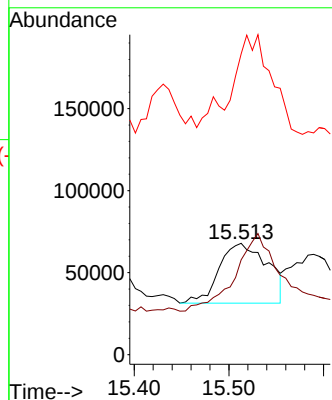
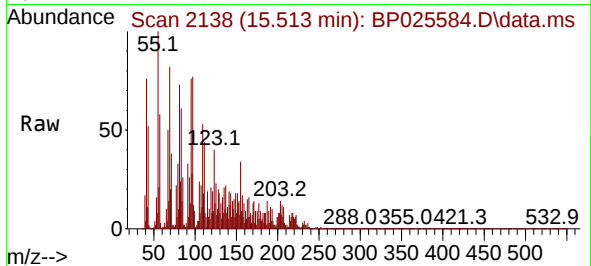




#61
4-Chlorophenyl-phenylether
Concen: 7.766 ng
RT: 15.513 min Scan# 2129
Delta R.T. 0.053 min
Lab File: BP025584.D
Acq: 26 Aug 2025 13:51

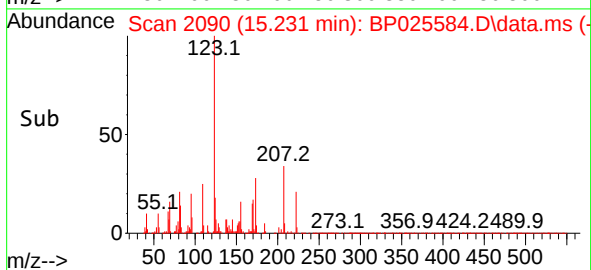
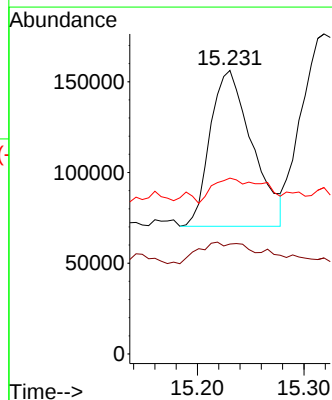
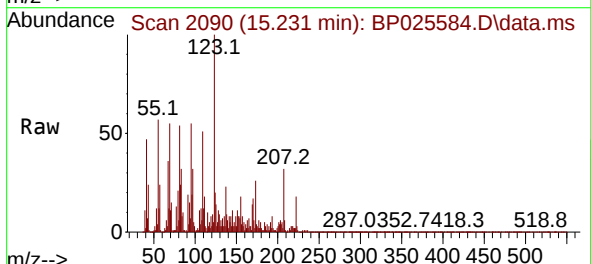
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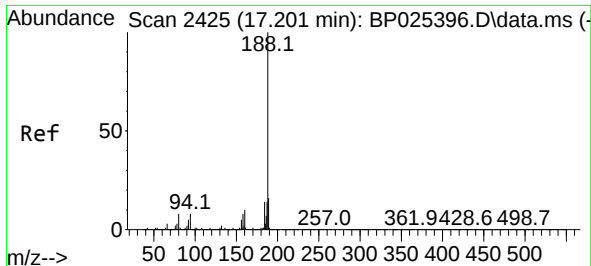
Tgt Ion:204 Resp: 128883
Ion Ratio Lower Upper
204 100
206 85.3 25.8 38.8#
141 270.3 49.4 74.2#



#62
4-Nitroaniline
Concen: 27.216 ng
RT: 15.231 min Scan# 2090
Delta R.T. -0.247 min
Lab File: BP025584.D
Acq: 26 Aug 2025 13:51

Tgt Ion:138 Resp: 235999
Ion Ratio Lower Upper
138 100
92 38.8 29.1 69.1
108 62.0 61.5 101.5

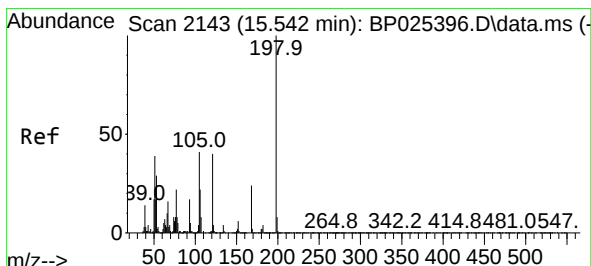
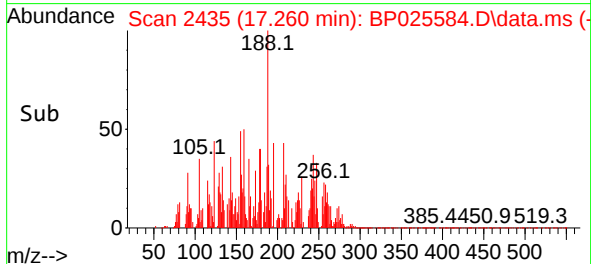
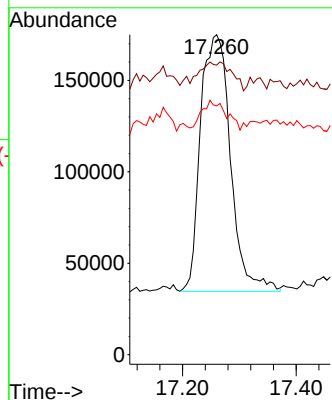
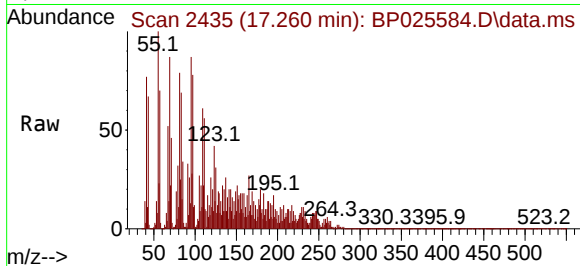




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.260 min Scan# 24
Delta R.T. 0.059 min
Lab File: BP025584.D
Acq: 26 Aug 2025 13:51

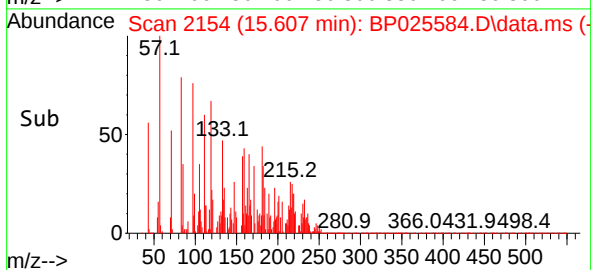
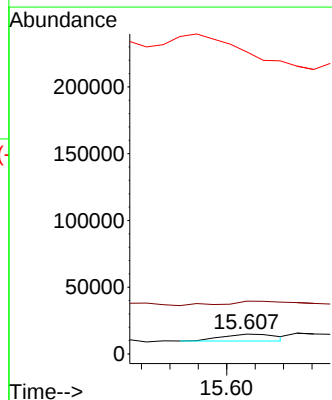
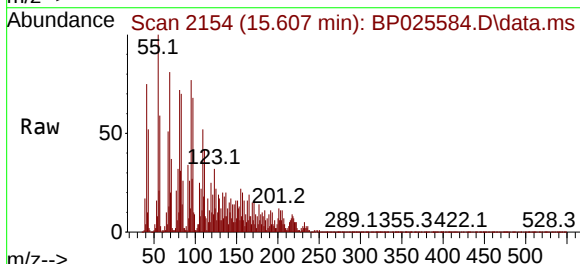
Instrument :
BNA_P
ClientSampleId :
ARS20-0002-SOIL

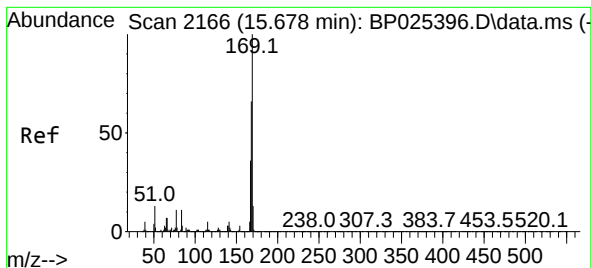
Tgt Ion:188 Resp: 513622
Ion Ratio Lower Upper
188 100
94 90.5 6.6 10.0#
80 77.8 6.7 10.1#



#65
4,6-Dinitro-2-methylphenol
Concen: 2.159 ng
RT: 15.607 min Scan# 2154
Delta R.T. 0.065 min
Lab File: BP025584.D
Acq: 26 Aug 2025 13:51

Tgt Ion:198 Resp: 6914
Ion Ratio Lower Upper
198 100
51 265.8 19.6 59.6#
105 1520.9 20.9 60.9#

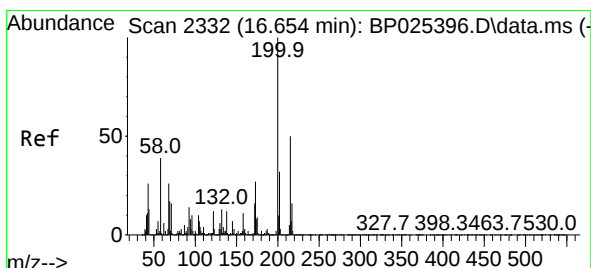
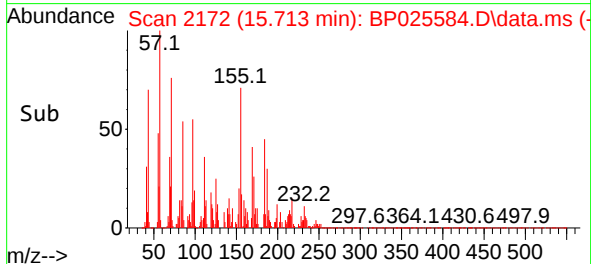
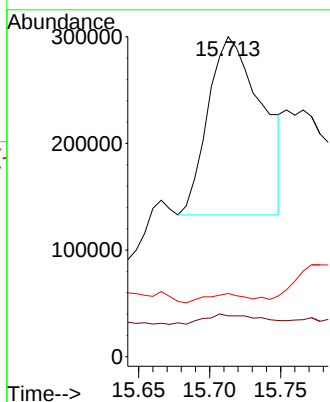
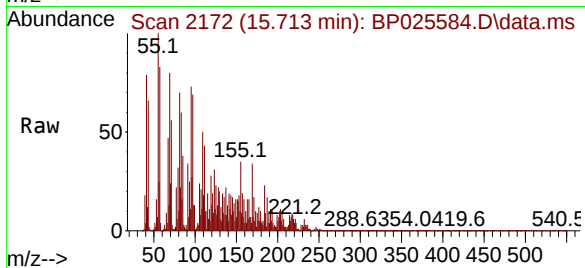




#66
n-Nitrosodiphenylamine
Concen: 28.159 ng
RT: 15.713 min Scan# 2166
Delta R.T. 0.035 min
Lab File: BP025584.D
Acq: 26 Aug 2025 13:51

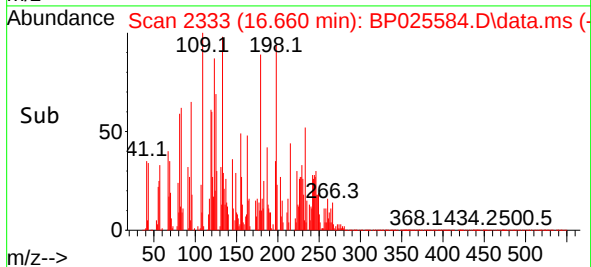
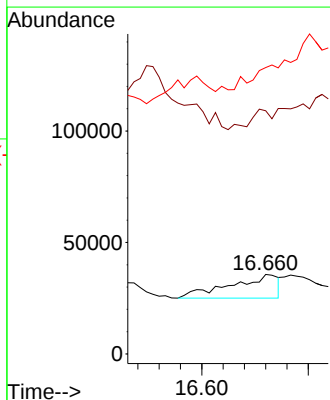
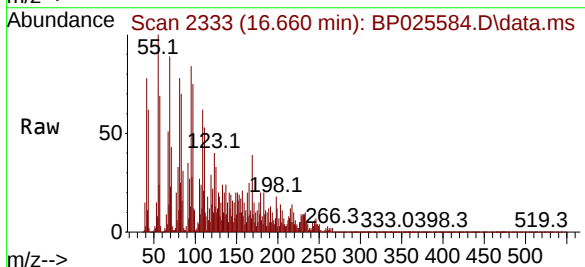
Instrument :
BNA_P
ClientSampleId :
ARS20-0002-SOIL

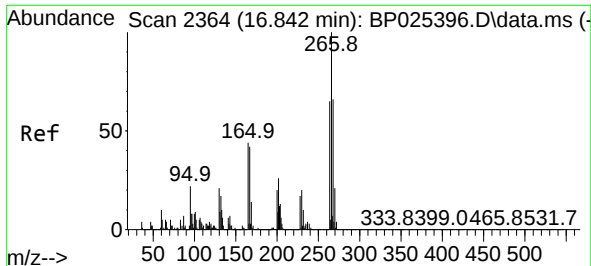
Tgt Ion:169 Resp: 441041
Ion Ratio Lower Upper
169 100
168 12.8 53.2 79.8#
167 19.8 28.7 43.1#



#69
Atrazine
Concen: 5.605 ng
RT: 16.660 min Scan# 2333
Delta R.T. 0.006 min
Lab File: BP025584.D
Acq: 26 Aug 2025 13:51

Tgt Ion:200 Resp: 32874
Ion Ratio Lower Upper
200 100
173 306.0 6.7 46.7#
215 360.2 29.7 69.7#

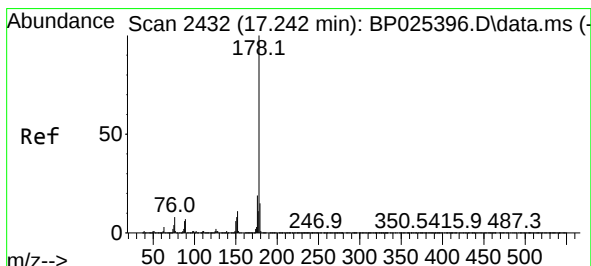
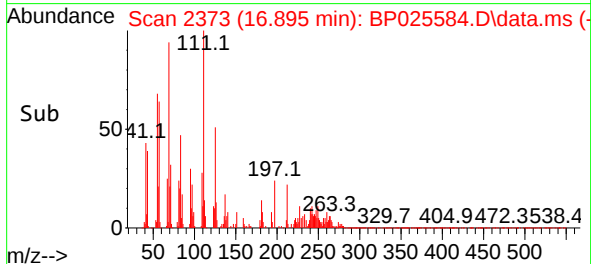
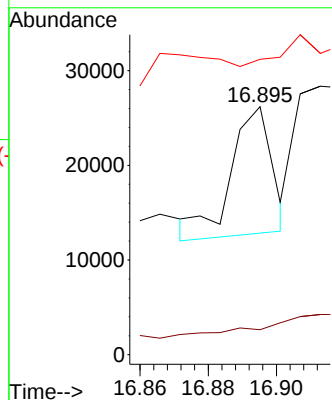
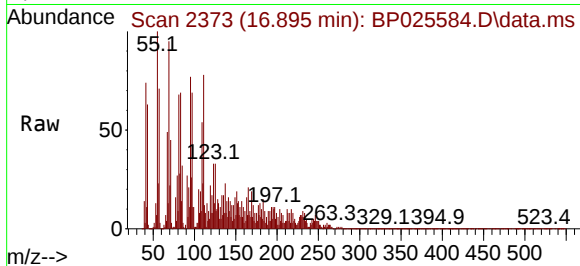




#70
Pentachlorophenol
Concen: 2.719 ng
RT: 16.895 min Scan# 211
Delta R.T. 0.053 min
Lab File: BP025584.D
Acq: 26 Aug 2025 13:51

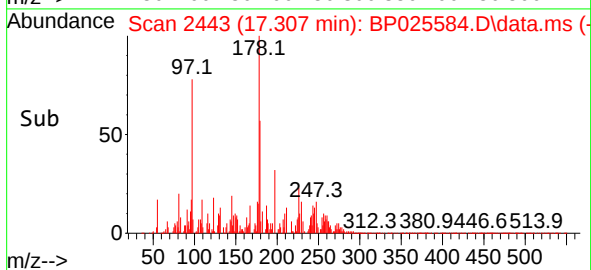
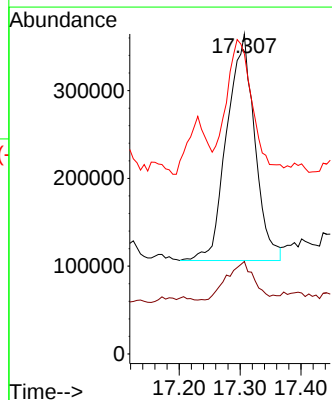
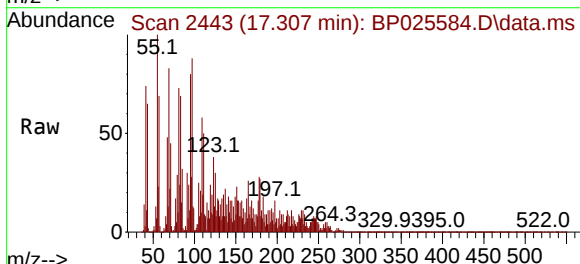
Instrument :
BNA_P
ClientSampleId :
ARS20-0002-SOIL

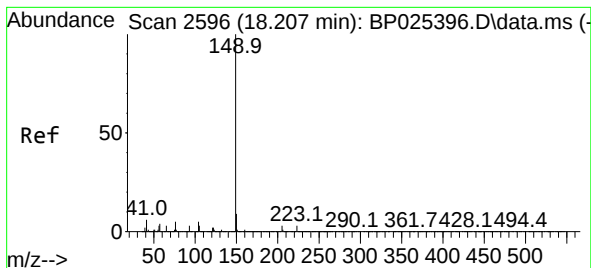
Tgt Ion:266 Resp: 11241
Ion Ratio Lower Upper
266 100
268 10.1 52.6 79.0#
264 119.1 52.0 78.0#



#71
Phenanthrene
Concen: 29.116 ng
RT: 17.307 min Scan# 2443
Delta R.T. 0.065 min
Lab File: BP025584.D
Acq: 26 Aug 2025 13:51

Tgt Ion:178 Resp: 821502
Ion Ratio Lower Upper
178 100
176 28.9 15.5 23.3#
179 93.8 12.2 18.4#





#74

Di-n-butylphthalate

Concen: 12.641 ng

RT: 18.266 min Scan# 2

Delta R.T. 0.059 min

Lab File: BP025584.D

Acq: 26 Aug 2025 13:51

Instrument :

BNA_P

ClientSampleId :

ARS20-0002-SOIL

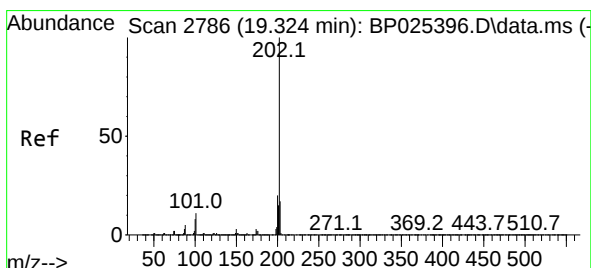
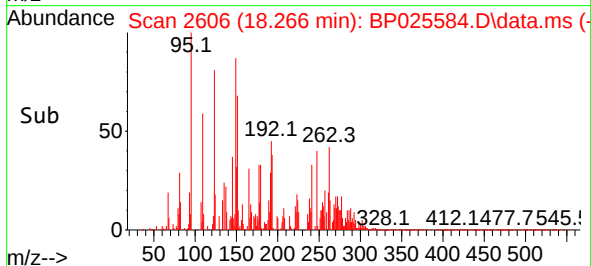
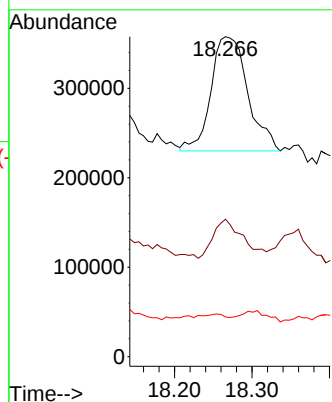
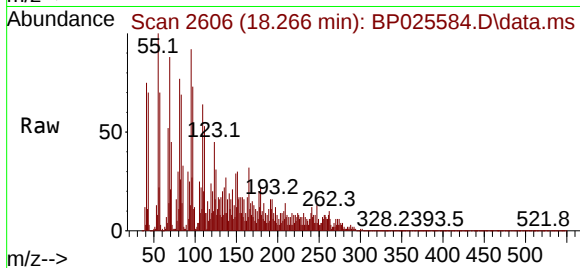
Tgt Ion:149 Resp: 422091

Ion Ratio Lower Upper

149 100

150 43.0 7.4 11.0#

104 12.4 4.2 6.2#



#75

Fluoranthene

Concen: 16.070 ng

RT: 19.395 min Scan# 2798

Delta R.T. 0.071 min

Lab File: BP025584.D

Acq: 26 Aug 2025 13:51

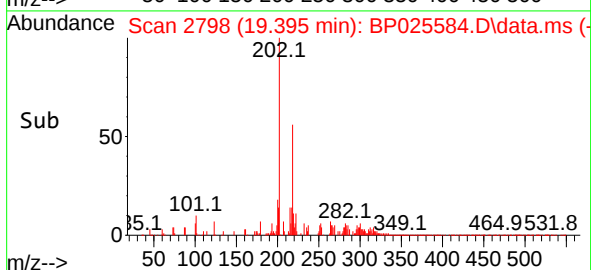
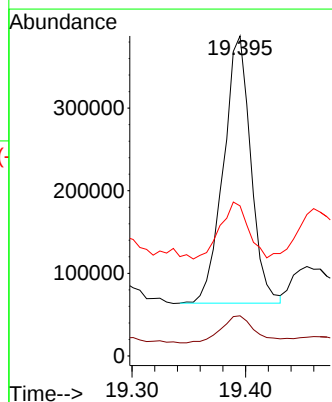
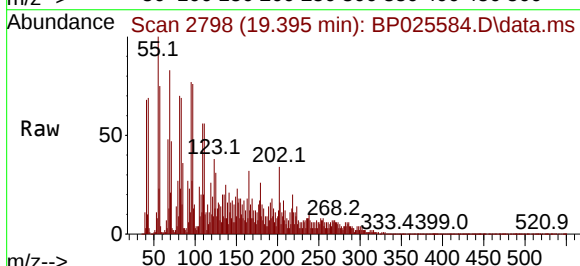
Tgt Ion:202 Resp: 540852

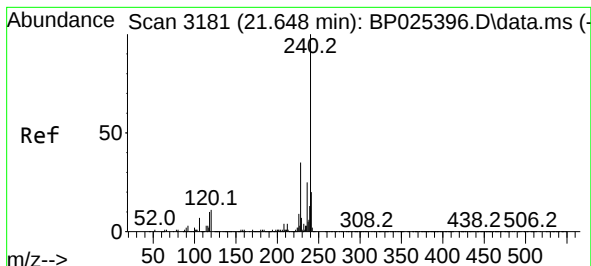
Ion Ratio Lower Upper

202 100

101 12.6 0.0 31.1

203 46.9 0.0 37.3#





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.666 min Scan# 3181

Delta R.T. 0.018 min

Lab File: BP025584.D

Acq: 26 Aug 2025 13:51

Instrument :

BNA_P

ClientSampleId :

ARS20-0002-SOIL

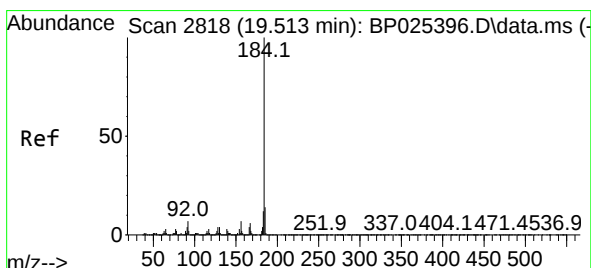
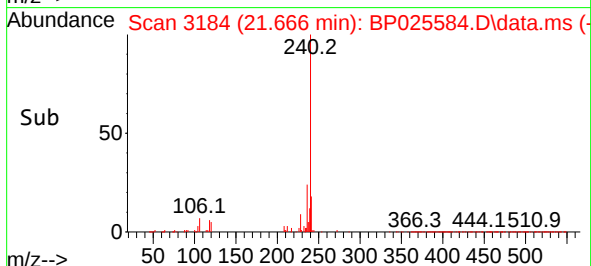
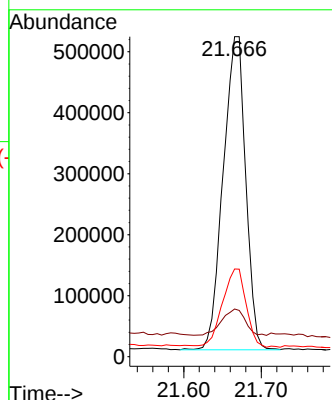
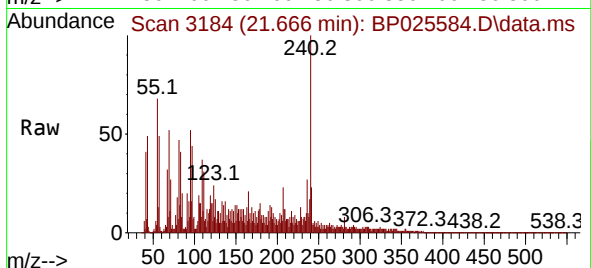
Tgt Ion:240 Resp: 1037204

Ion Ratio Lower Upper

240 100

120 14.9 8.9 13.3#

236 27.4 19.8 29.8



#77

Benzidine

Concen: 3.184 ng

RT: 19.489 min Scan# 2814

Delta R.T. -0.024 min

Lab File: BP025584.D

Acq: 26 Aug 2025 13:51

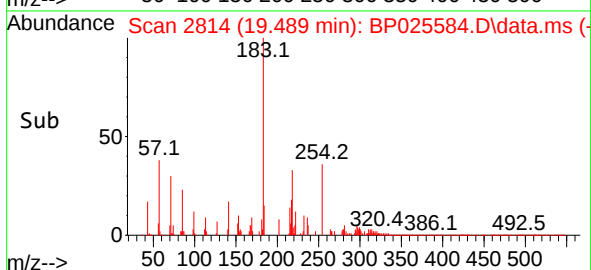
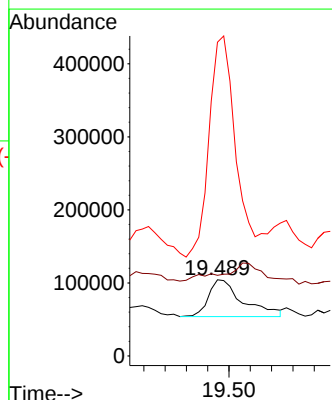
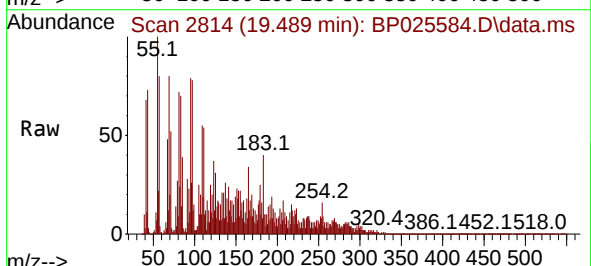
Tgt Ion:184 Resp: 112711

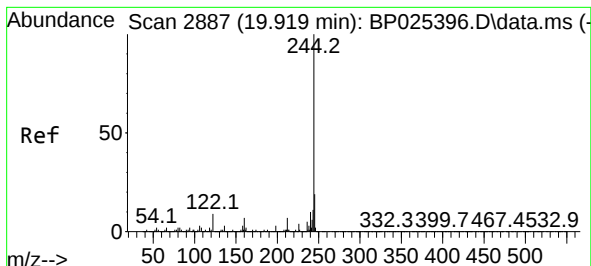
Ion Ratio Lower Upper

184 100

185 105.9 11.5 17.3#

183 411.7 9.4 14.2#





#79

Terphenyl-d14

Concen: 34.568 ng

RT: 19.960 min Scan# 21

Delta R.T. 0.041 min

Lab File: BP025584.D

Acq: 26 Aug 2025 13:51

Instrument :

BNA_P

ClientSampleId :

ARS20-0002-SOIL

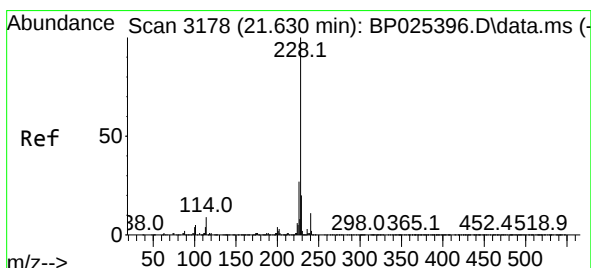
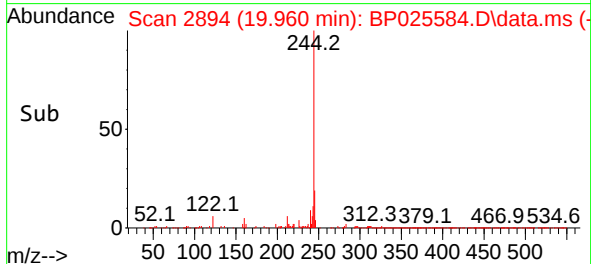
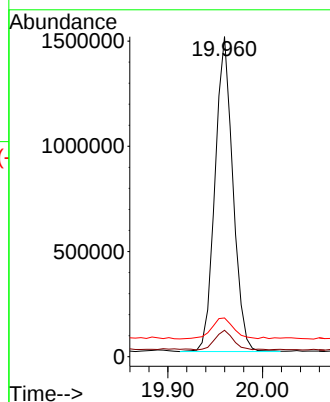
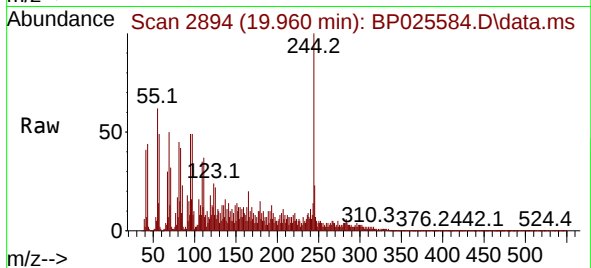
Tgt Ion:244 Resp: 1959713

Ion Ratio Lower Upper

244 100

212 8.3 5.8 8.6

122 12.1 7.4 11.2#



#81

Benzo(a)anthracene

Concen: 4.794 ng

RT: 21.642 min Scan# 3180

Delta R.T. 0.012 min

Lab File: BP025584.D

Acq: 26 Aug 2025 13:51

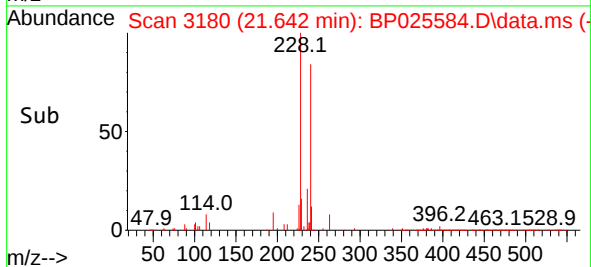
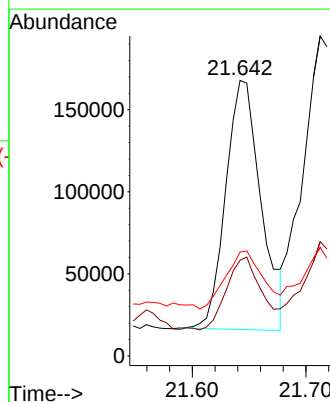
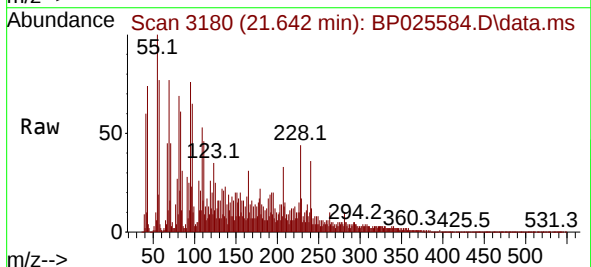
Tgt Ion:228 Resp: 327945

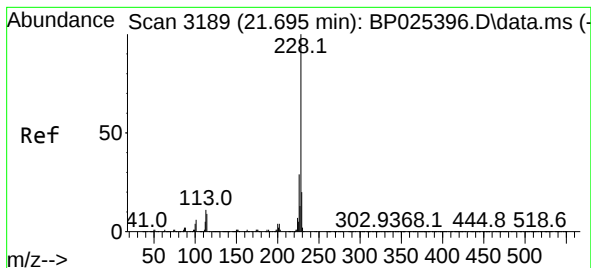
Ion Ratio Lower Upper

228 100

226 34.7 21.7 32.5#

229 37.7 15.6 23.4#





#83

Chrysene

Concen: 5.879 ng

RT: 21.713 min Scan# 3119

Delta R.T. 0.018 min

Lab File: BP025584.D

Acq: 26 Aug 2025 13:51

Instrument :

BNA_P

ClientSampleId :

ARS20-0002-SOIL

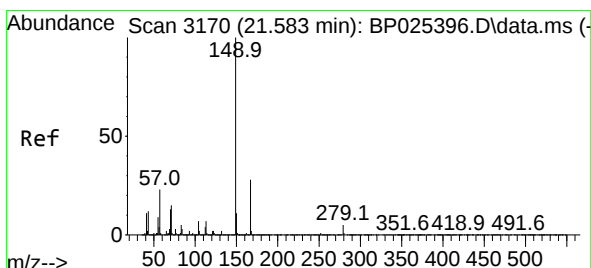
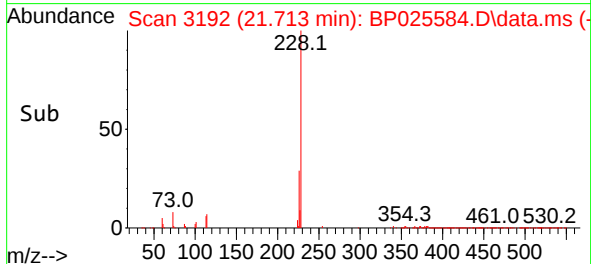
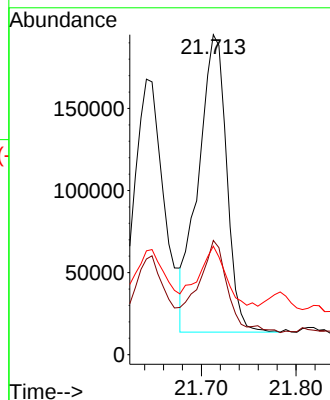
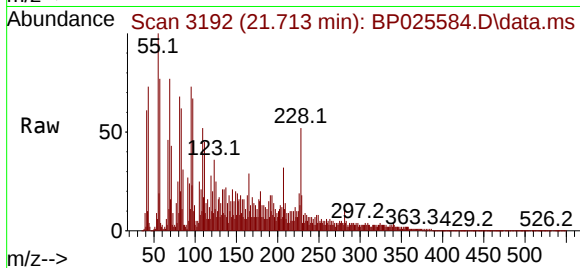
Tgt Ion:228 Resp: 376619

Ion Ratio Lower Upper

228 100

226 35.7 23.2 34.8#

229 33.9 15.6 23.4#



#84

Bis(2-ethylhexyl)phthalate

Concen: 51.372 ng

RT: 21.560 min Scan# 3166

Delta R.T. -0.024 min

Lab File: BP025584.D

Acq: 26 Aug 2025 13:51

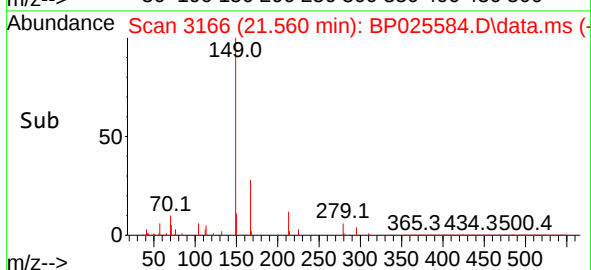
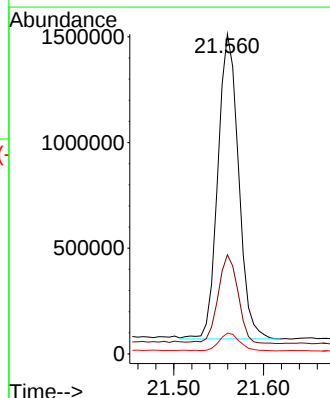
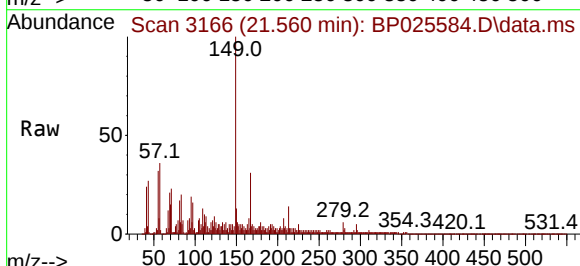
Tgt Ion:149 Resp: 2310526

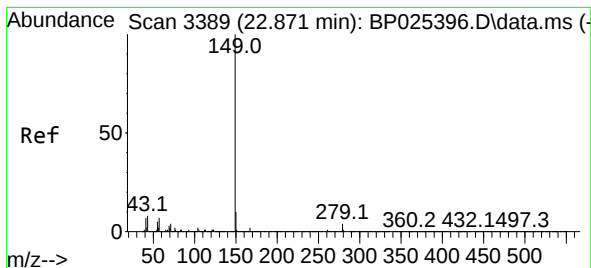
Ion Ratio Lower Upper

149 100

167 31.0 22.1 33.1

279 6.5 3.8 5.6#





#85

Di-n-octyl phthalate

Concen: 18.449 ng

RT: 22.930 min Scan# 31

Delta R.T. 0.059 min

Lab File: BP025584.D

Acq: 26 Aug 2025 13:51

Instrument :

BNA_P

ClientSampleId :

ARS20-0002-SOIL

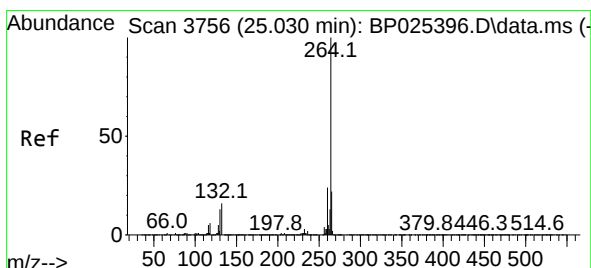
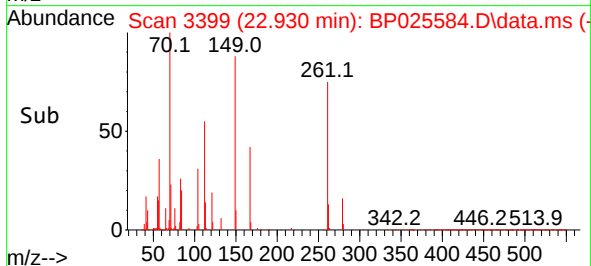
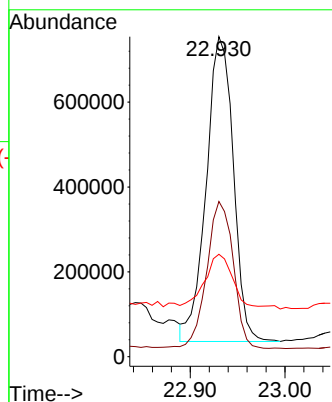
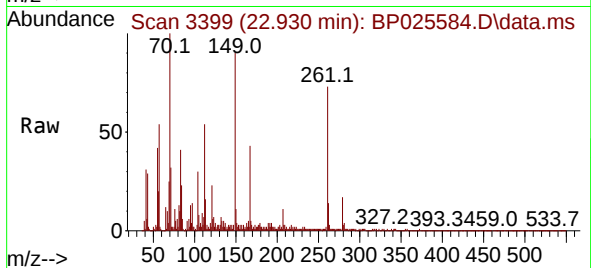
Tgt Ion:149 Resp: 1427263

Ion Ratio Lower Upper

149 100

167 47.3 1.3 1.9#

43 16.5 6.3 9.5#



#86

Perylene-d12

Concen: 20.000 ng

RT: 25.018 min Scan# 3754

Delta R.T. -0.012 min

Lab File: BP025584.D

Acq: 26 Aug 2025 13:51

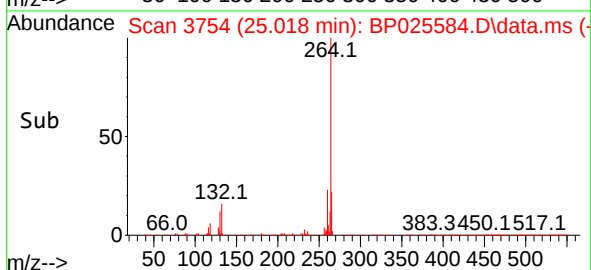
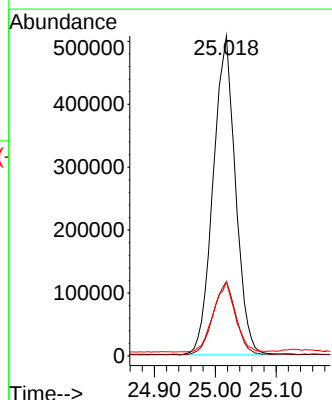
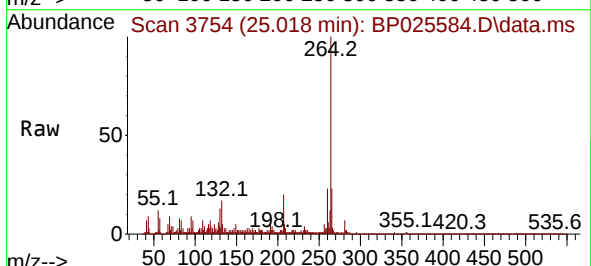
Tgt Ion:264 Resp: 1292008

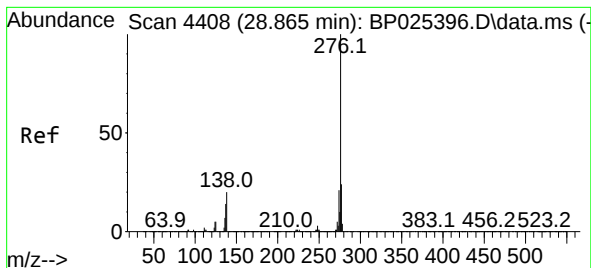
Ion Ratio Lower Upper

264 100

260 23.3 19.3 28.9

265 23.2 17.4 26.0





#87

Indeno(1,2,3-cd)pyrene

Concen: 3.289 ng

RT: 28.842 min Scan# 4408

Delta R.T. -0.023 min

Lab File: BP025584.D

Acq: 26 Aug 2025 13:51

Instrument :

BNA_P

ClientSampleId :

ARS20-0002-SOIL

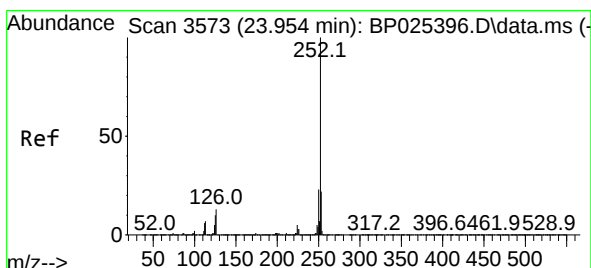
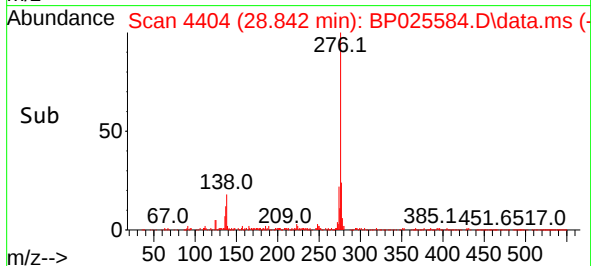
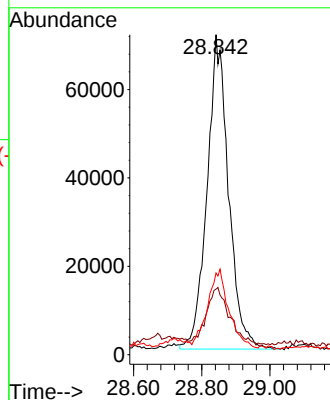
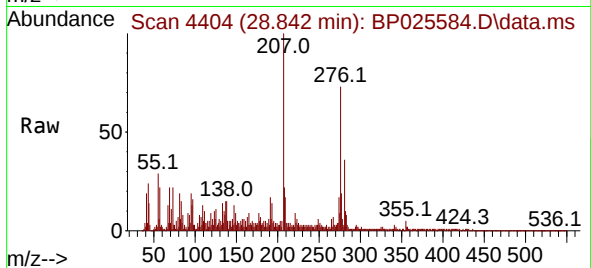
Tgt Ion:276 Resp: 311607

Ion Ratio Lower Upper

276 100

138 19.9 12.9 19.3#

277 24.7 17.0 25.6



#88

Benzo(b)fluoranthene

Concen: 8.677 ng

RT: 23.960 min Scan# 3574

Delta R.T. 0.006 min

Lab File: BP025584.D

Acq: 26 Aug 2025 13:51

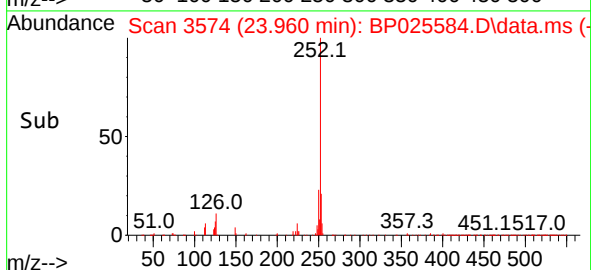
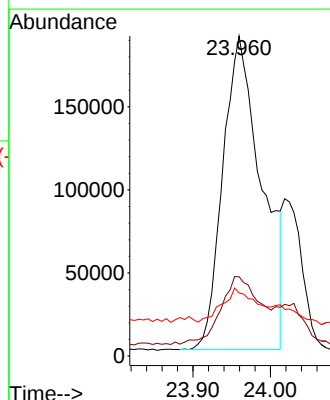
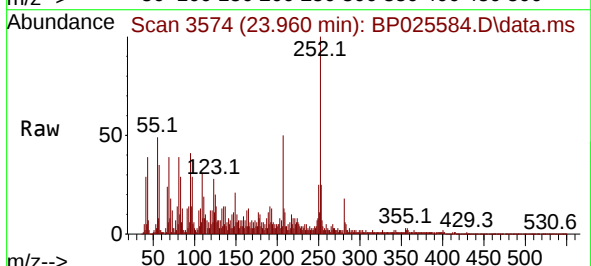
Tgt Ion:252 Resp: 661036

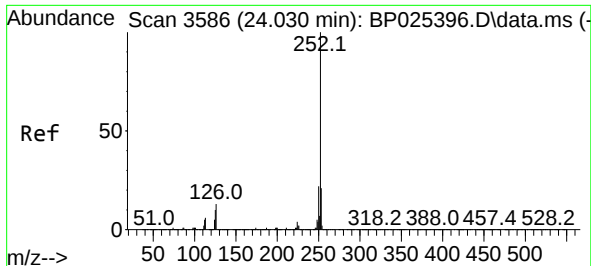
Ion Ratio Lower Upper

252 100

253 24.7 17.7 26.5

125 19.7 7.9 11.9#

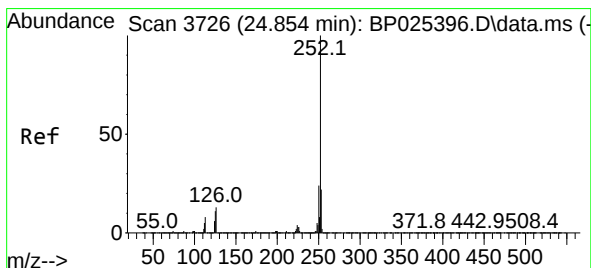
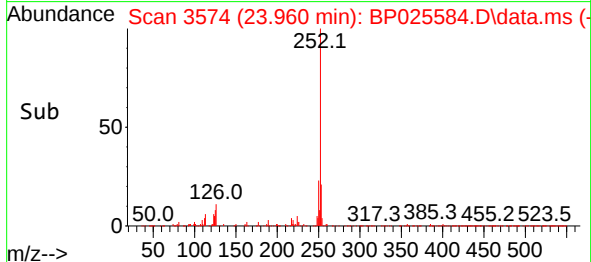
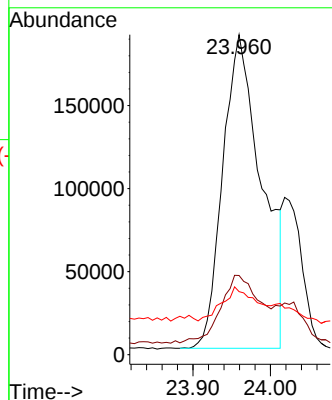
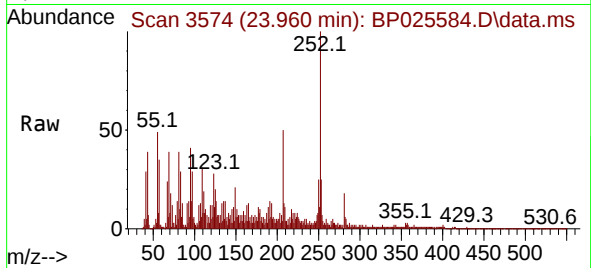




#89
Benzo(k)fluoranthene
Concen: 8.671 ng
RT: 23.960 min Scan# 31
Delta R.T. -0.071 min
Lab File: BP025584.D
Acq: 26 Aug 2025 13:51

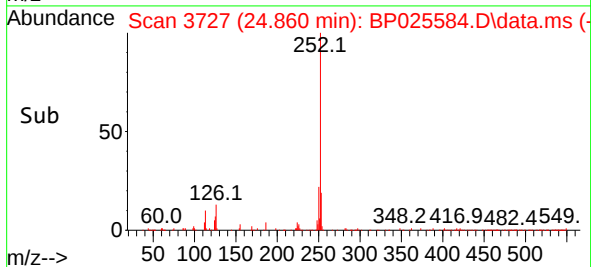
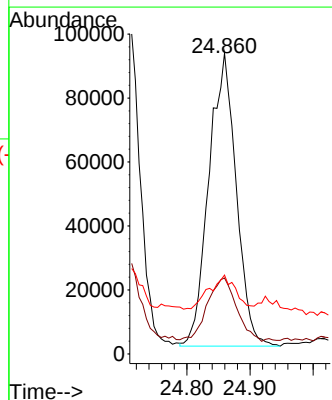
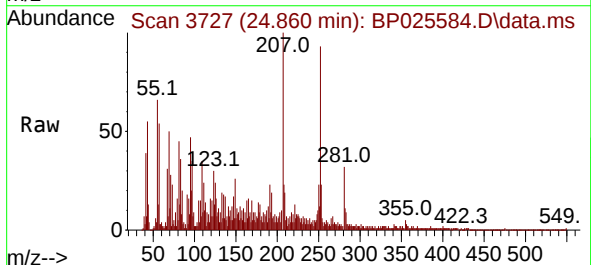
Instrument :
BNA_P
ClientSampleId :
ARS20-0002-SOIL

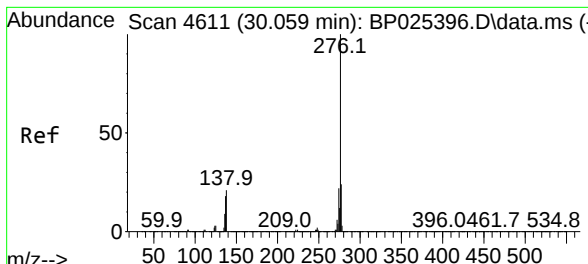
Tgt Ion:252 Resp: 661036
Ion Ratio Lower Upper
252 100
253 24.7 17.1 25.7
125 19.7 7.8 11.6#



#90
Benzo(a)pyrene
Concen: 3.714 ng
RT: 24.860 min Scan# 3727
Delta R.T. 0.006 min
Lab File: BP025584.D
Acq: 26 Aug 2025 13:51

Tgt Ion:252 Resp: 275457
Ion Ratio Lower Upper
252 100
253 25.3 17.5 26.3
125 26.2 8.7 13.1#





#92
 Benzo(g,h,i)perylene
 Concen: 3.687 ng
 RT: 30.018 min Scan# 4
 Delta R.T. -0.041 min
 Lab File: BP025584.D
 Acq: 26 Aug 2025 13:51

Instrument :
 BNA_P
 ClientSampleId :
 ARS20-0002-SOIL

Tgt Ion:276 Resp: 280597

Ion	Ratio	Lower	Upper
276	100		
277	27.8	19.4	29.0
138	22.6	16.7	25.1

