

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG102925\
 Data File : BG064623.D
 Acq On : 29 Oct 2025 14:50
 Operator : RC/JU
 Sample : Q3477-01
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 SOUTH-MAHWAH-SOIL

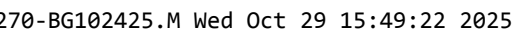
Quant Time: Oct 29 15:49:11 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG102425.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Oct 24 16:40:26 2025
 Response via : Initial Calibration

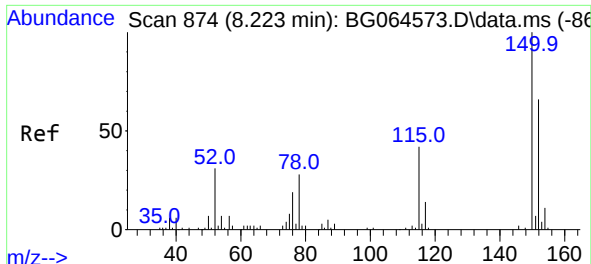
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.217	152	30944	20.000	ng	0.00
21) Naphthalene-d8	11.043	136	124089	20.000	ng	0.00
39) Acenaphthene-d10	14.839	164	93359	20.000	ng	0.00
64) Phenanthrene-d10	17.577	188	225706	20.000	ng	0.00
76) Chrysene-d12	21.848	240	284020	20.000	ng	#-0.02
86) Perylene-d12	25.185	264	310993	20.000	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.744	112	144071	78.148	ng	0.00
7) Phenol-d6	7.348	99	200501	79.257	ng	0.00
23) Nitrobenzene-d5	9.380	82	130118	62.981	ng	0.00
42) 2,4,6-Tribromophenol	16.313	330	127667	94.747	ng	0.00
45) 2-Fluorobiphenyl	13.470	172	306181	49.711	ng	0.00
79) Terphenyl-d14	20.168	244	695808	46.233	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.276	88	3353	4.108	ng	# 1
19) n-Nitroso-di-n-propyla...	9.380	70	17716	10.133	ng	# 73
32) Benzoic acid	10.232	122	118	7.000	ng	# 1
48) 2-Nitroaniline	13.899	65	59	3.258	ng	# 46
51) 2,6-Dinitrotoluene	14.839	165	12966	13.461	ng	# 20
54) 2,4-Dinitrophenol	15.015	184	53	5.640	ng	# 49
57) 2,4-Dinitrotoluene	14.839	165	12966	9.713	ng	# 23
63) Azobenzene	16.184	77	23277	3.478	ng	# 1
65) 4,6-Dinitro-2-methylph...	15.679	198	63	5.483	ng	# 35
67) 4-Bromophenyl-phenylether	16.313	248	8134	3.041	ng	# 1
87) Indeno(1,2,3-cd)pyrene	28.946	276	119391	5.219	ng	97
92) Benzo(g,h,i)perylene	28.946	276	119391	5.219	ng	96

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

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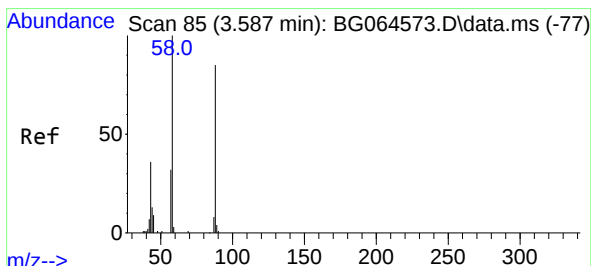
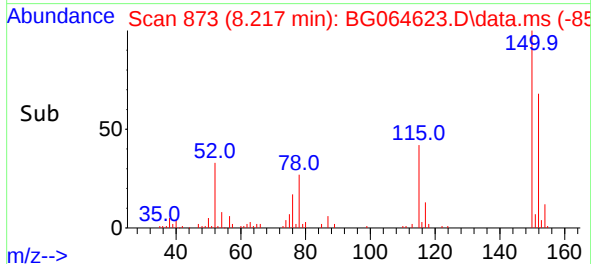
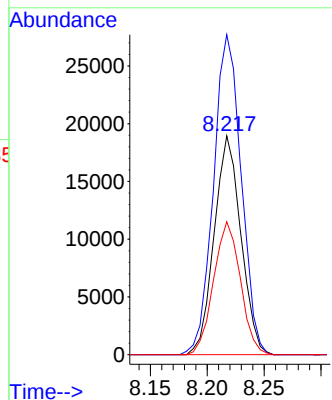
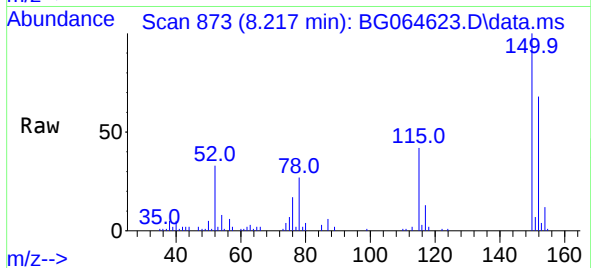




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.217 min Scan# 81
Delta R.T. -0.004 min
Lab File: BG064623.D
Acq: 29 Oct 2025 14:50

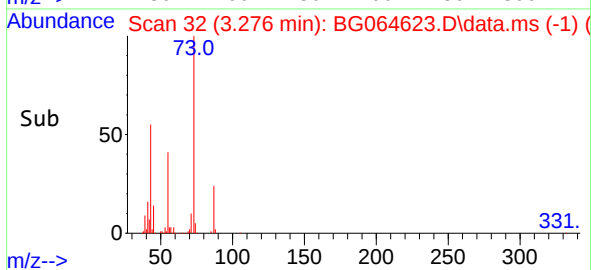
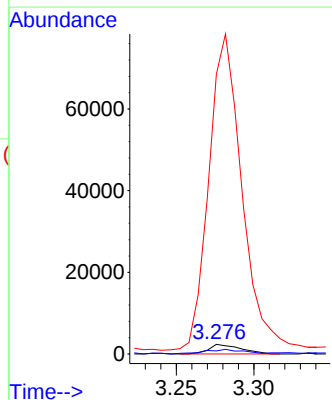
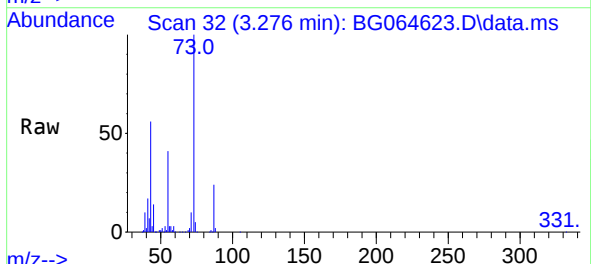
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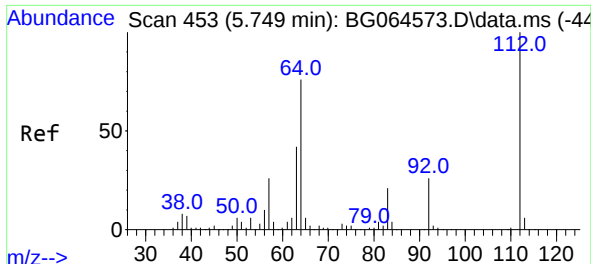
Tgt Ion:152 Resp: 30944
Ion Ratio Lower Upper
152 100
150 146.2 122.2 183.4
115 60.7 50.8 76.2



#2
1,4-Dioxane
Concen: 4.108 ng
RT: 3.276 min Scan# 32
Delta R.T. -0.315 min
Lab File: BG064623.D
Acq: 29 Oct 2025 14:50

Tgt Ion: 88 Resp: 3353
Ion Ratio Lower Upper
88 100
58 57.4 92.4 138.6#
43 3503.8 33.0 49.6#

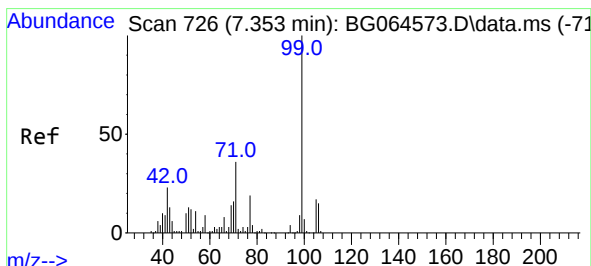
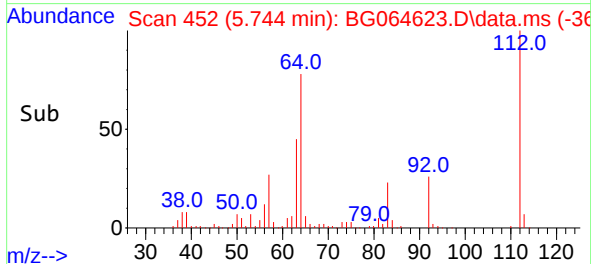
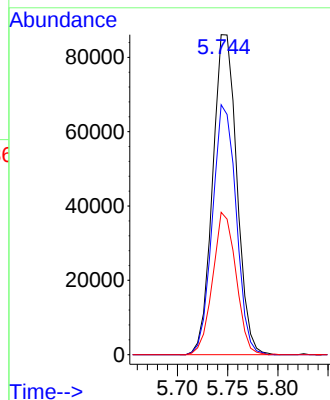
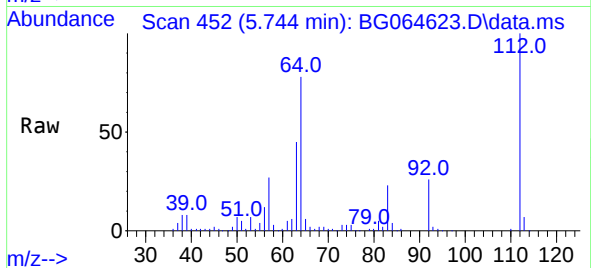




#5
2-Fluorophenol
Concen: 78.148 ng
RT: 5.744 min Scan# 41
Delta R.T. -0.003 min
Lab File: BG064623.D
Acq: 29 Oct 2025 14:50

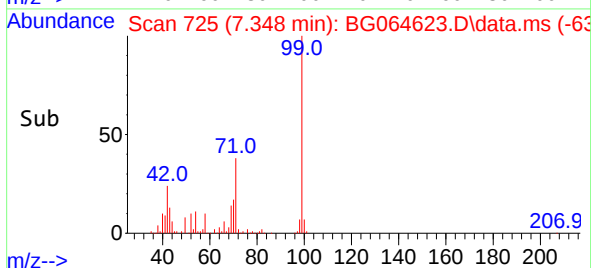
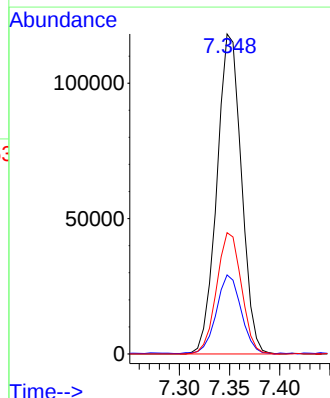
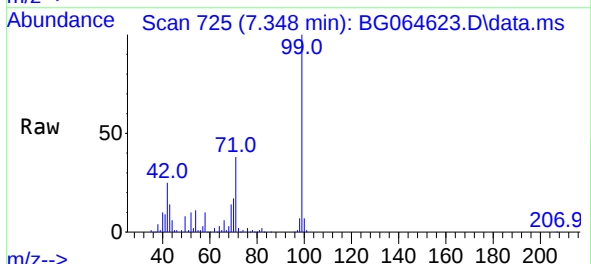
Instrument :
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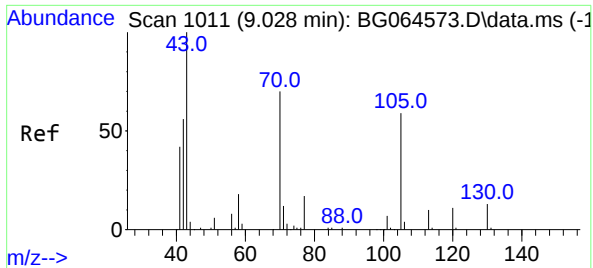
Tgt Ion:112 Resp: 144071
Ion Ratio Lower Upper
112 100
64 78.1 60.7 91.1
63 44.5 33.4 50.0



#7
Phenol-d6
Concen: 79.257 ng
RT: 7.348 min Scan# 725
Delta R.T. -0.009 min
Lab File: BG064623.D
Acq: 29 Oct 2025 14:50

Tgt Ion: 99 Resp: 200501
Ion Ratio Lower Upper
99 100
42 24.7 18.3 27.5
71 37.9 28.6 43.0

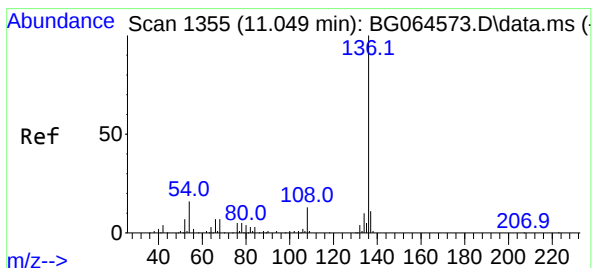
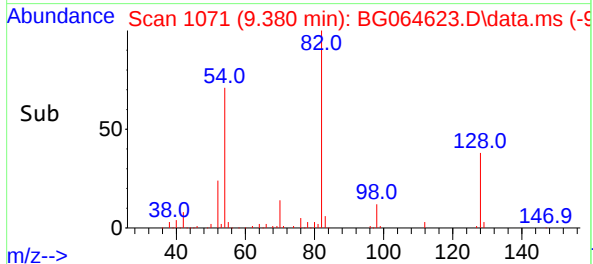
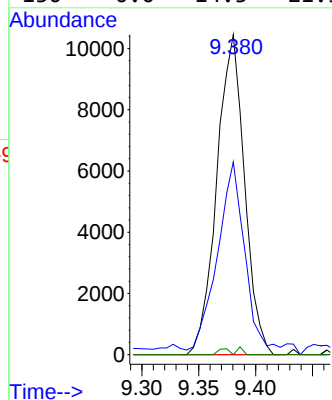
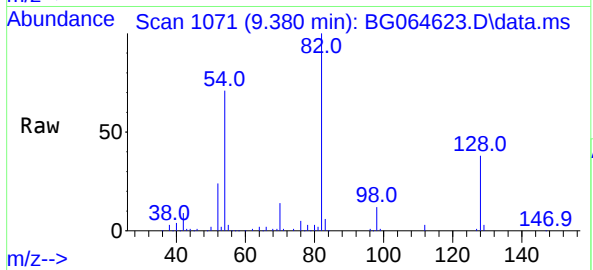




#19
n-Nitroso-di-n-propylamine
Concen: 10.133 ng
RT: 9.380 min Scan# 1011
Delta R.T. 0.349 min
Lab File: BG064623.D
Acq: 29 Oct 2025 14:50

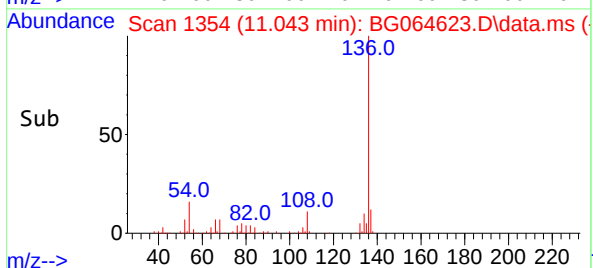
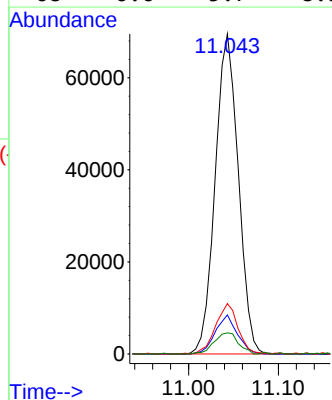
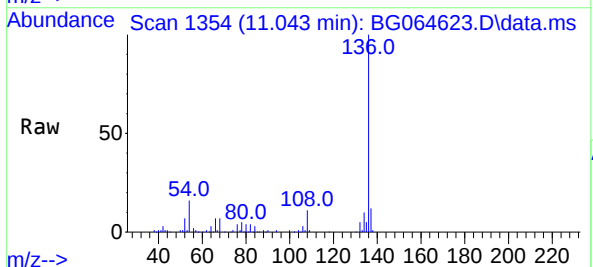
Instrument :
BNA_G
ClientSampleId :
SOUTH-MAHWAH-SOIL

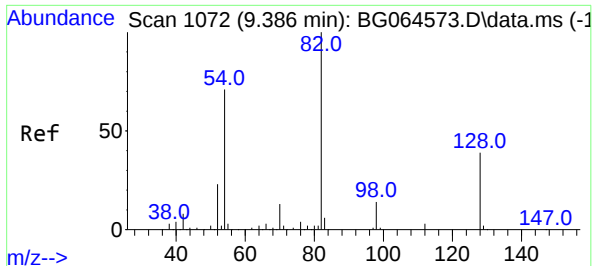
Tgt Ion: 70 Resp: 17716
Ion Ratio Lower Upper
70 100
42 60.2 65.2 97.8#
101 0.0 7.9 11.9#
130 0.0 14.3 21.5#



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 11.043 min Scan# 1354
Delta R.T. -0.009 min
Lab File: BG064623.D
Acq: 29 Oct 2025 14:50

Tgt Ion:136 Resp: 124089
Ion Ratio Lower Upper
136 100
137 12.2 9.2 13.8
54 15.8 12.6 19.0
68 6.6 5.7 8.5





#23

Nitrobenzene-d5

Concen: 62.981 ng

RT: 9.380 min Scan# 1072

Delta R.T. -0.010 min

Lab File: BG064623.D

Acq: 29 Oct 2025 14:50

Instrument :

BNA_G

ClientSampleId :

SOUTH-MAHWAH-SOIL

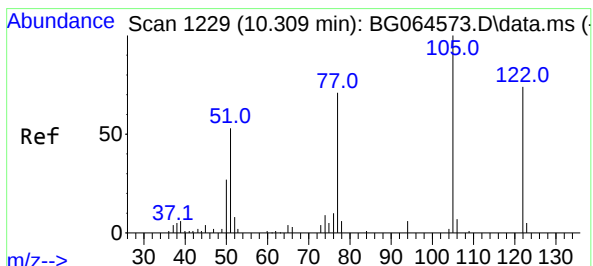
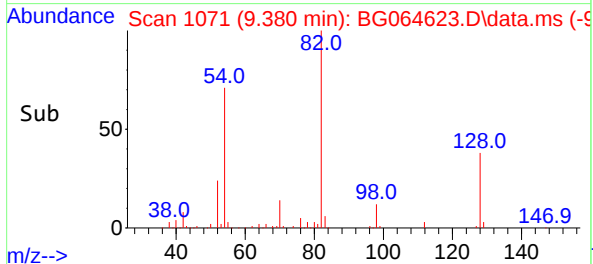
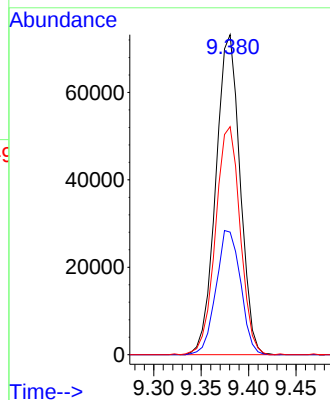
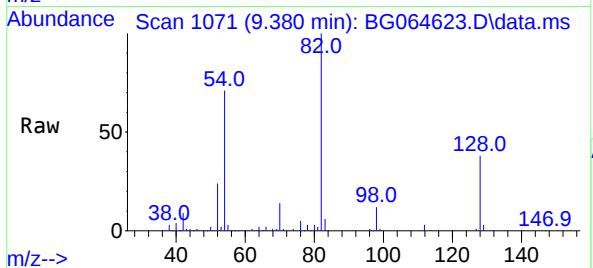
Tgt Ion: 82 Resp: 130118

Ion Ratio Lower Upper

82 100

128 38.3 31.3 46.9

54 71.2 56.6 84.8



#32

Benzoic acid

Concen: 7.000 ng

RT: 10.232 min Scan# 1216

Delta R.T. -0.110 min

Lab File: BG064623.D

Acq: 29 Oct 2025 14:50

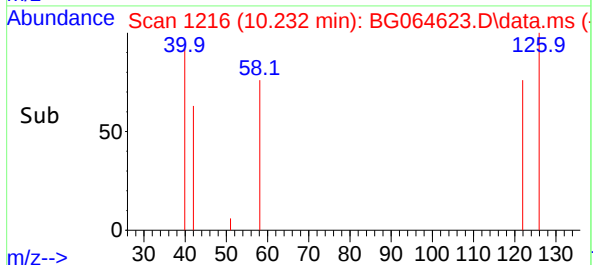
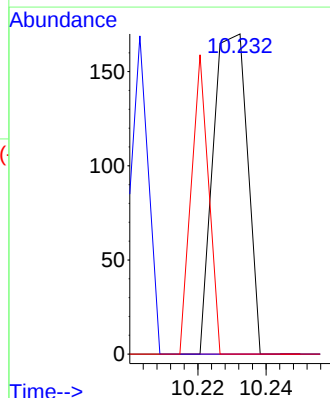
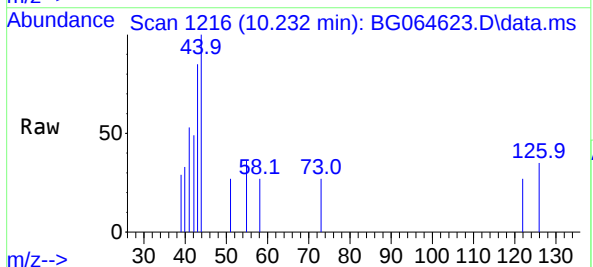
Tgt Ion:122 Resp: 118

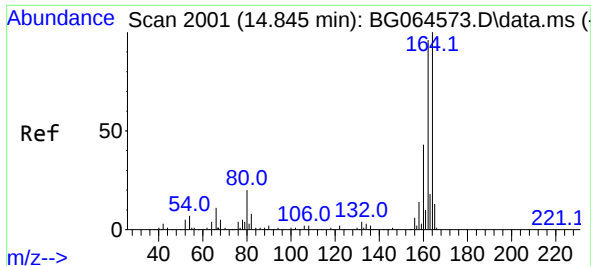
Ion Ratio Lower Upper

122 100

105 0.0 104.2 144.2#

77 0.0 70.2 110.2#

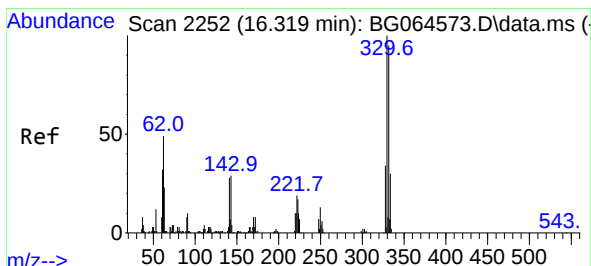
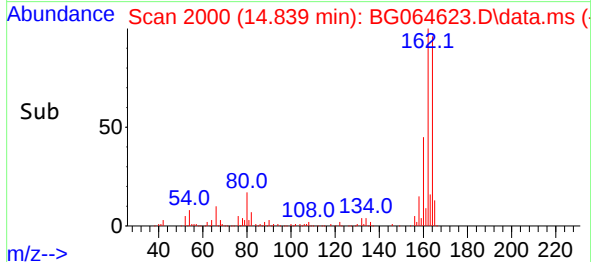
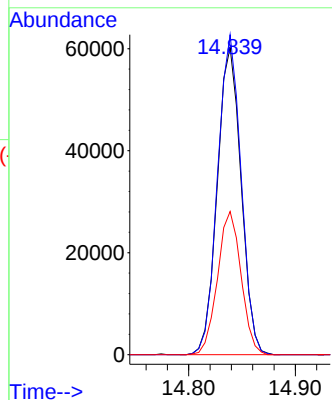
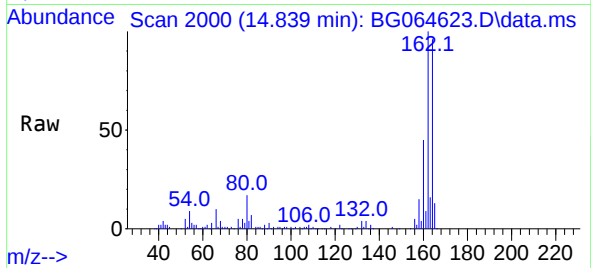




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.839 min Scan# 20
Delta R.T. -0.003 min
Lab File: BG064623.D
Acq: 29 Oct 2025 14:50

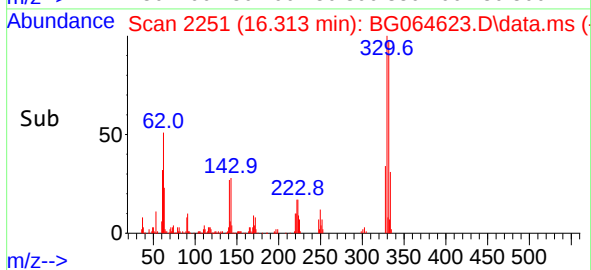
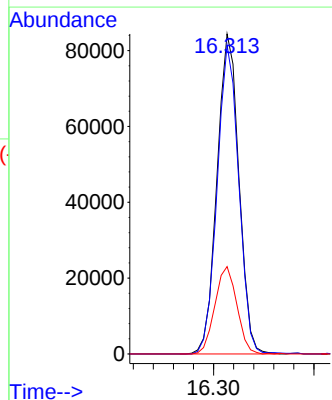
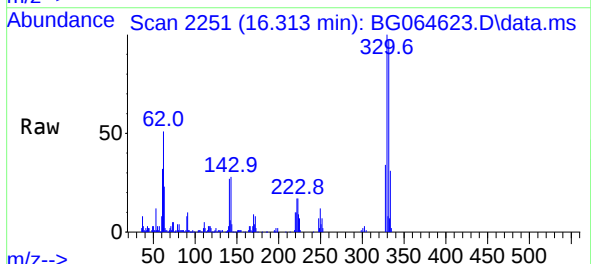
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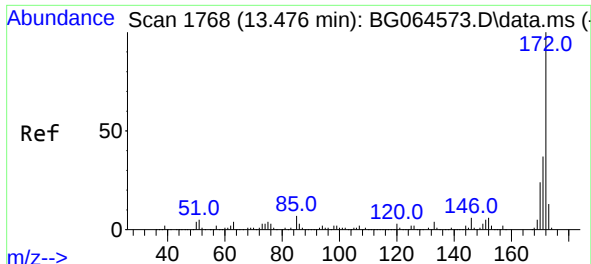
Tgt Ion:164 Resp: 93359
Ion Ratio Lower Upper
164 100
162 104.2 77.0 115.6
160 46.6 34.4 51.6



#42
2,4,6-Tribromophenol
Concen: 94.747 ng
RT: 16.313 min Scan# 2251
Delta R.T. -0.010 min
Lab File: BG064623.D
Acq: 29 Oct 2025 14:50

Tgt Ion:330 Resp: 127667
Ion Ratio Lower Upper
330 100
332 95.2 78.0 117.0
141 27.4 21.8 32.6

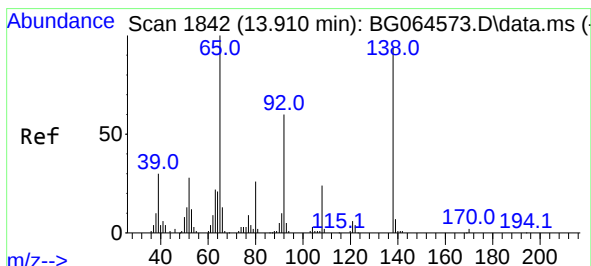
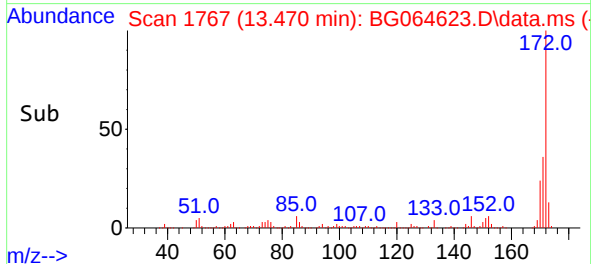
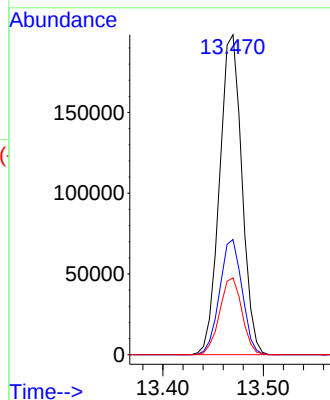
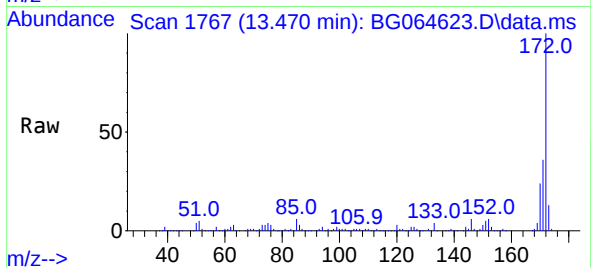




#45
2-Fluorobiphenyl
Concen: 49.711 ng
RT: 13.470 min Scan# 1
Delta R.T. -0.009 min
Lab File: BG064623.D
Acq: 29 Oct 2025 14:50

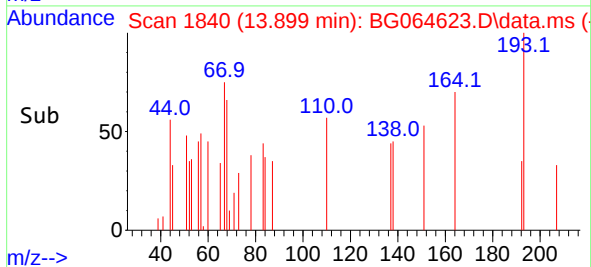
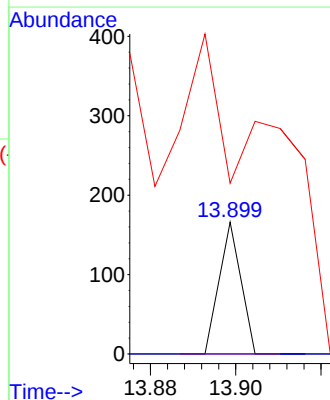
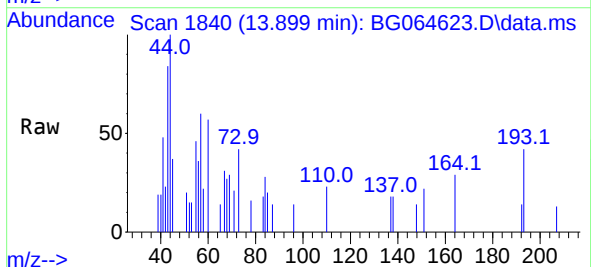
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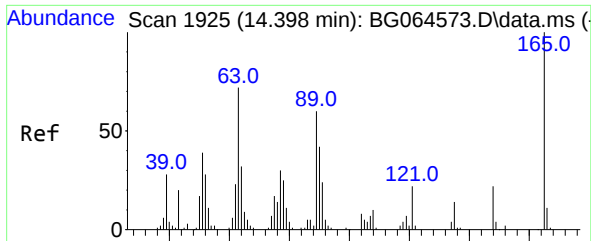
Tgt Ion:172 Resp: 306181
Ion Ratio Lower Upper
172 100
171 36.0 29.4 44.0
170 24.0 19.1 28.7



#48
2-Nitroaniline
Concen: 3.258 ng
RT: 13.899 min Scan# 1840
Delta R.T. -0.015 min
Lab File: BG064623.D
Acq: 29 Oct 2025 14:50

Tgt Ion: 65 Resp: 59
Ion Ratio Lower Upper
65 100
92 0.0 48.3 72.5#
138 129.5 74.9 112.3#

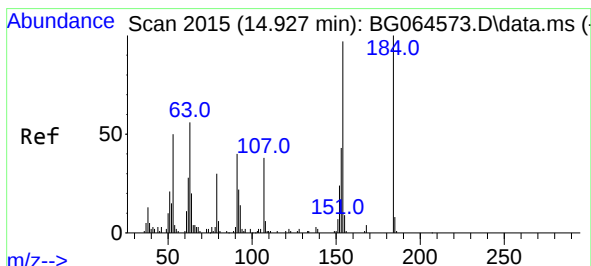
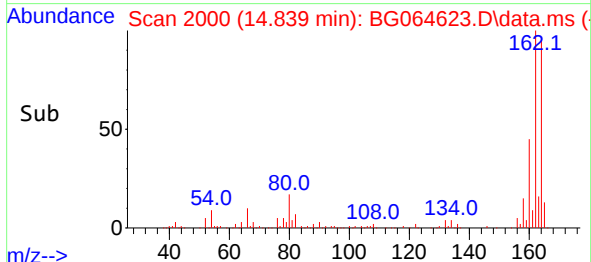
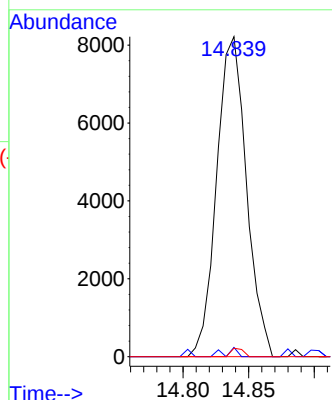
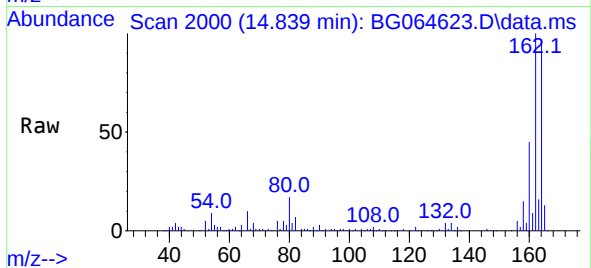




#51
2,6-Dinitrotoluene
Concen: 13.461 ng
RT: 14.839 min Scan# 20
Delta R.T. 0.437 min
Lab File: BG064623.D
Acq: 29 Oct 2025 14:50

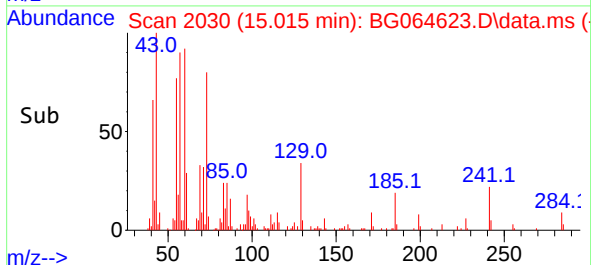
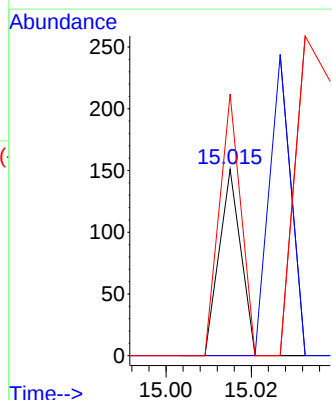
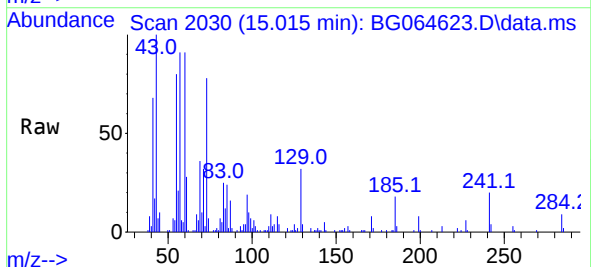
Instrument :
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ClientSampleId :
SOUTH-MAHWAH-SOIL

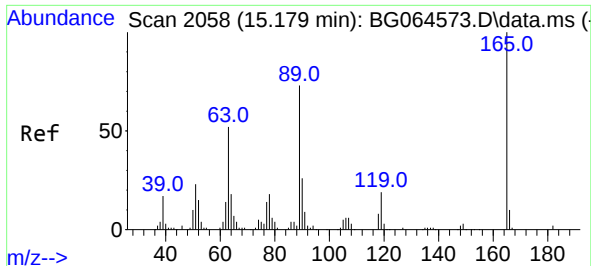
Tgt Ion:165 Resp: 12966
Ion Ratio Lower Upper
165 100
63 2.9 57.4 86.0#
89 2.7 47.8 71.8#



#54
2,4-Dinitrophenol
Concen: 5.640 ng
RT: 15.015 min Scan# 2030
Delta R.T. 0.085 min
Lab File: BG064623.D
Acq: 29 Oct 2025 14:50

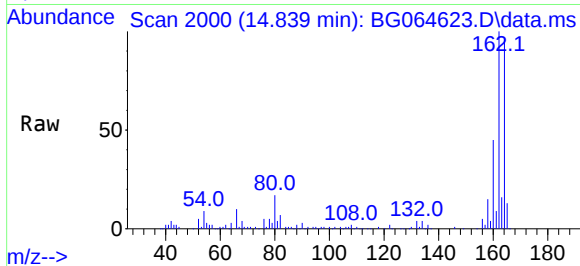
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Ion Ratio Lower Upper
184 100
63 0.0 56.6 85.0#
154 140.4 158.6 238.0#



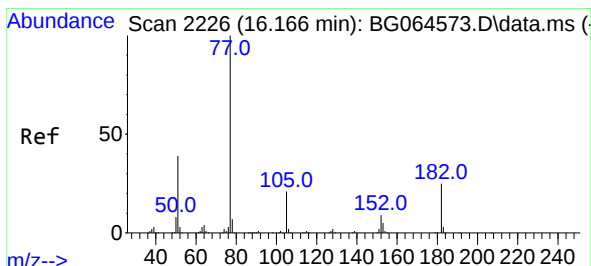
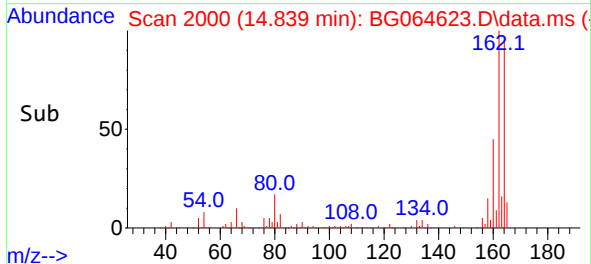
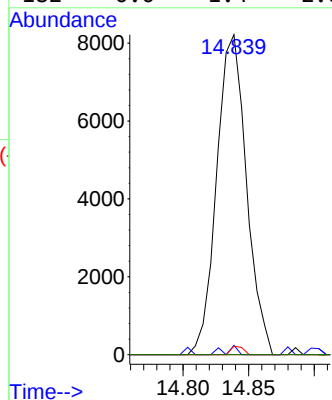


#57
2,4-Dinitrotoluene
Concen: 9.713 ng
RT: 14.839 min Scan# 2058
Delta R.T. -0.350 min
Lab File: BG064623.D
Acq: 29 Oct 2025 14:50

Instrument :
BNA_G
ClientSampleId :
SOUTH-MAHWAH-SOIL

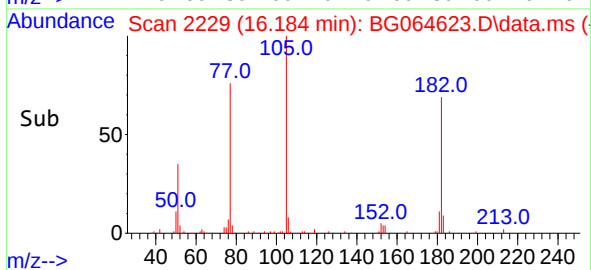
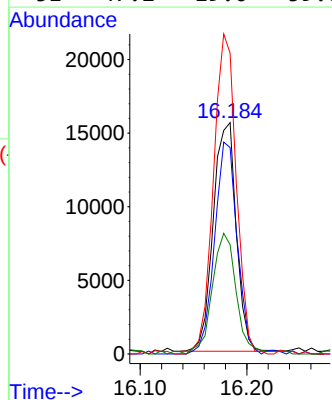
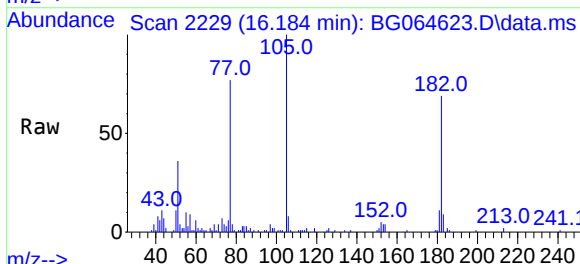


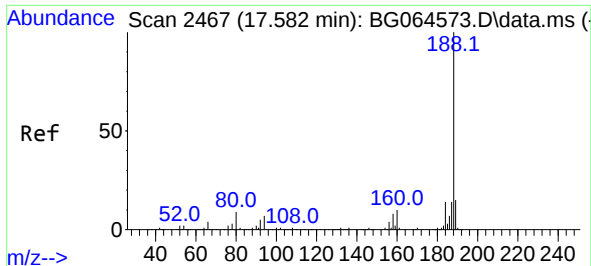
Tgt Ion:165 Resp: 12966
Ion Ratio Lower Upper
165 100
63 2.9 41.8 62.8#
89 2.7 58.1 87.1#
182 0.0 1.4 2.0#



#63
Azobenzene
Concen: 3.478 ng
RT: 16.184 min Scan# 2229
Delta R.T. 0.014 min
Lab File: BG064623.D
Acq: 29 Oct 2025 14:50

Tgt Ion: 77 Resp: 23277
Ion Ratio Lower Upper
77 100
182 89.2 4.9 44.9#
105 129.9 1.3 41.3#
51 47.2 19.0 59.0

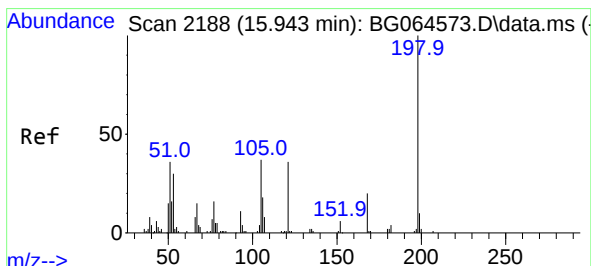
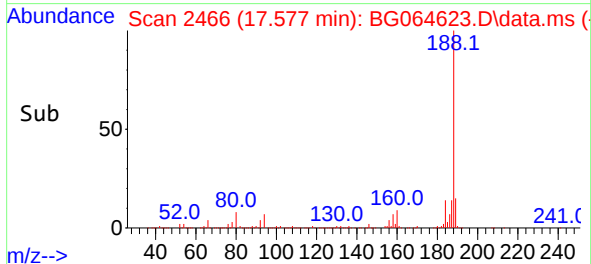
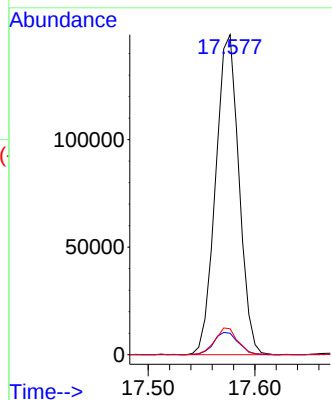
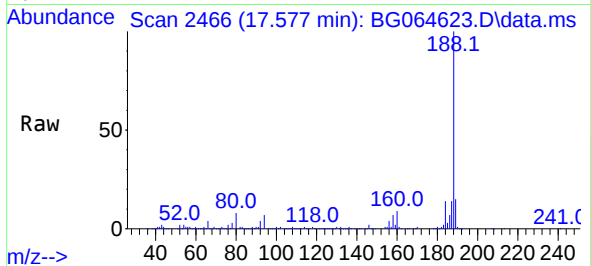




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.577 min Scan# 24
Delta R.T. -0.003 min
Lab File: BG064623.D
Acq: 29 Oct 2025 14:50

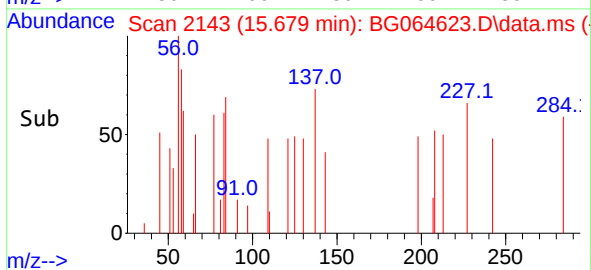
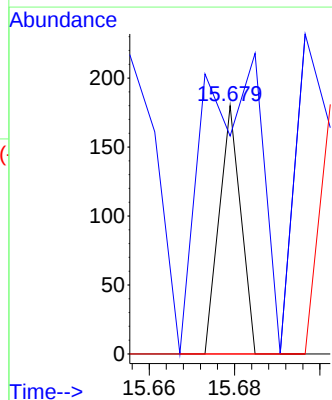
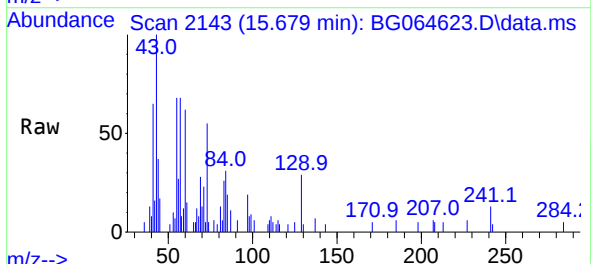
Instrument :
BNA_G
ClientSampleId :
SOUTH-MAHWAH-SOIL

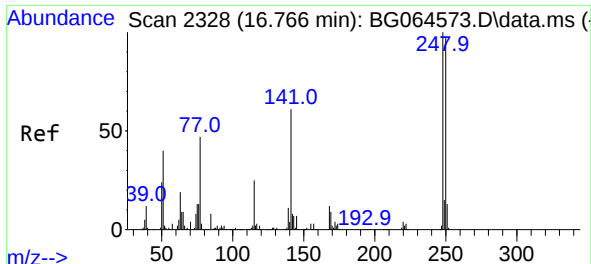
Tgt Ion:188 Resp: 225706
Ion Ratio Lower Upper
188 100
94 6.7 5.7 8.5
80 8.1 6.8 10.2



#65
4,6-Dinitro-2-methylphenol
Concen: 5.483 ng
RT: 15.679 min Scan# 2143
Delta R.T. -0.268 min
Lab File: BG064623.D
Acq: 29 Oct 2025 14:50

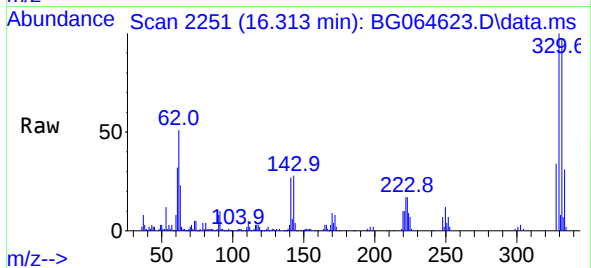
Tgt Ion:198 Resp: 63
Ion Ratio Lower Upper
198 100
51 87.8 24.7 64.7#
105 0.0 18.0 58.0#



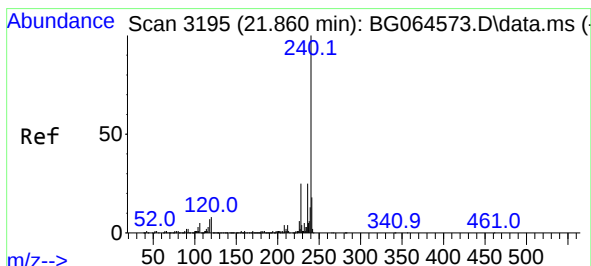
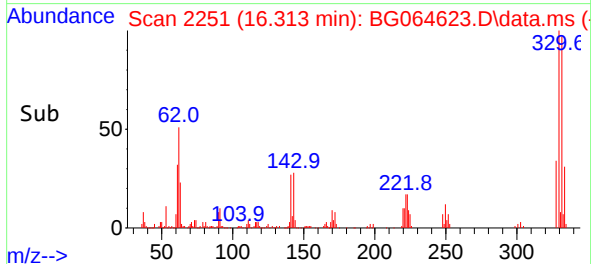
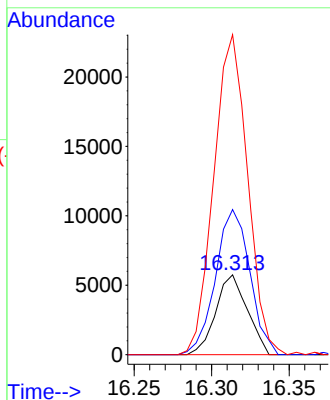


#67
4-Bromophenyl-phenylether
Concen: 3.041 ng
RT: 16.313 min Scan# 21
Delta R.T. -0.456 min
Lab File: BG064623.D
Acq: 29 Oct 2025 14:50

Instrument :
BNA_G
ClientSampleId :
SOUTH-MAHWAH-SOIL

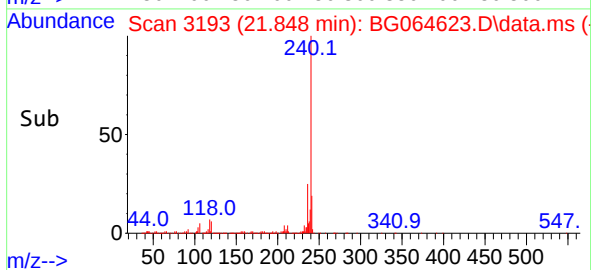
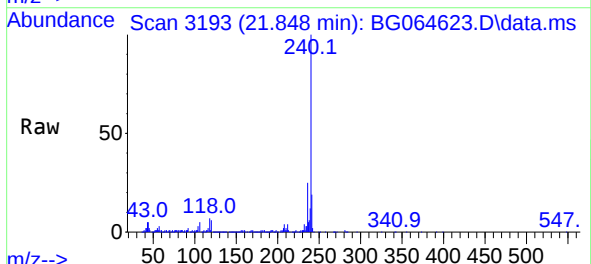
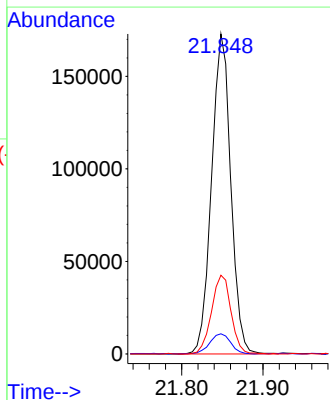


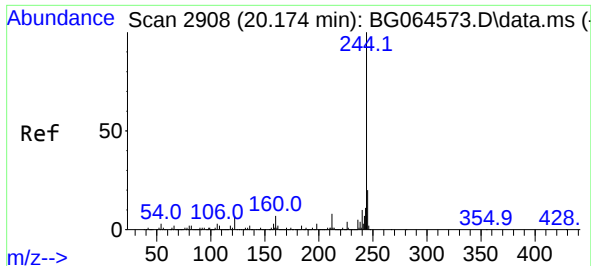
Tgt Ion:248 Resp: 8134
Ion Ratio Lower Upper
248 100
250 243.8 77.7 116.5#
141 400.8 48.6 72.8#



#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.848 min Scan# 3193
Delta R.T. -0.015 min
Lab File: BG064623.D
Acq: 29 Oct 2025 14:50

Tgt Ion:240 Resp: 284020
Ion Ratio Lower Upper
240 100
120 6.3 6.5 9.7#
236 24.6 20.2 30.2

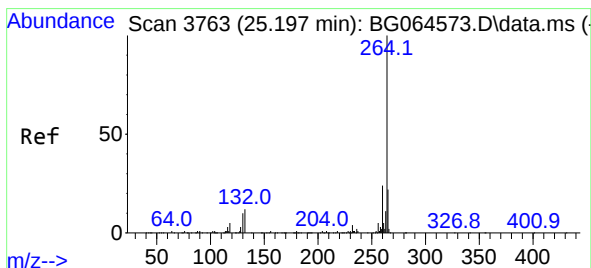
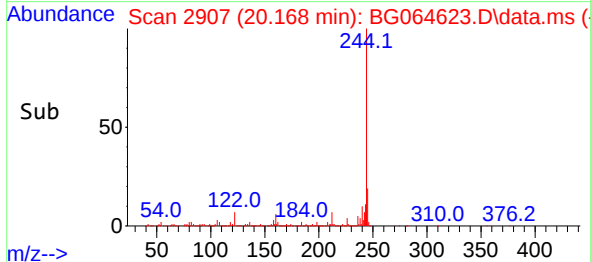
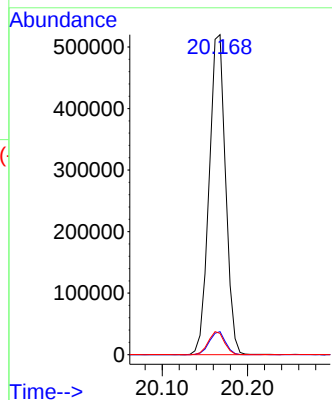
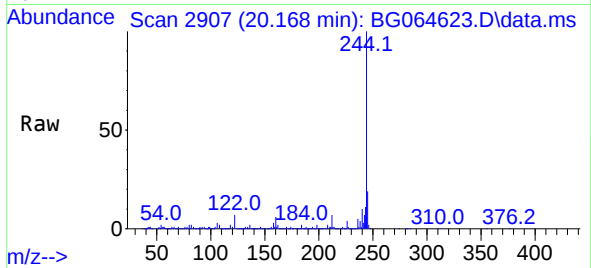




#79
Terphenyl-d14
Concen: 46.233 ng
RT: 20.168 min Scan# 24
Delta R.T. -0.009 min
Lab File: BG064623.D
Acq: 29 Oct 2025 14:50

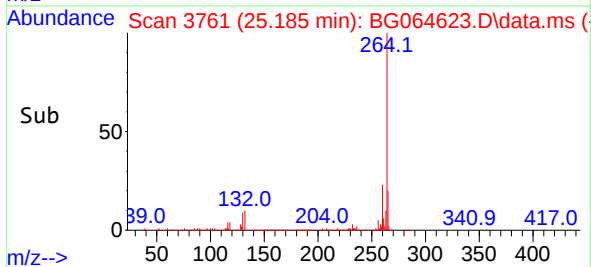
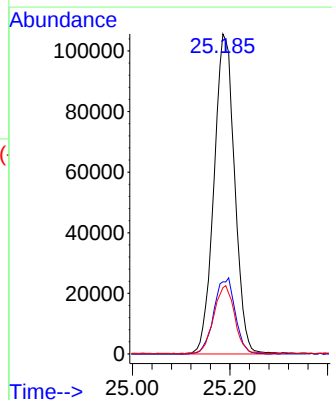
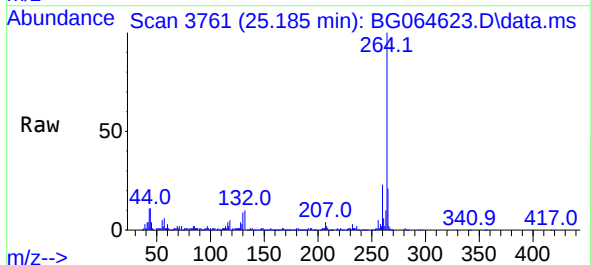
Instrument :
BNA_G
ClientSampleId :
SOUTH-MAHWAH-SOIL

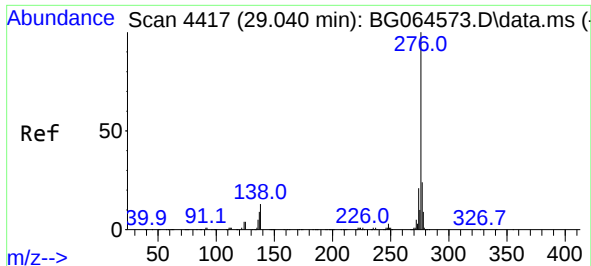
Tgt Ion:244 Resp: 695808
Ion Ratio Lower Upper
244 100
212 7.2 6.1 9.1
122 6.7 5.6 8.4



#86
Perylene-d12
Concen: 20.000 ng
RT: 25.185 min Scan# 3761
Delta R.T. -0.015 min
Lab File: BG064623.D
Acq: 29 Oct 2025 14:50

Tgt Ion:264 Resp: 310993
Ion Ratio Lower Upper
264 100
260 22.6 19.0 28.4
265 20.7 17.6 26.4

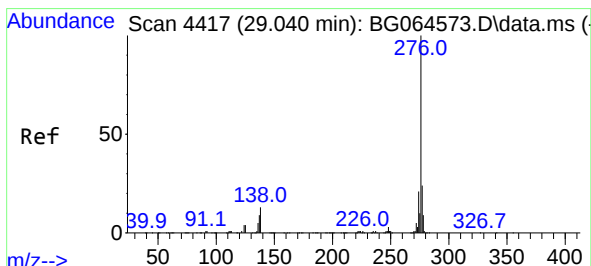
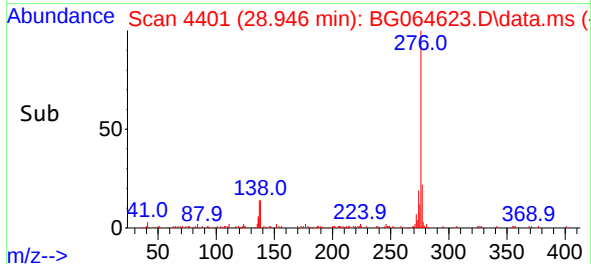
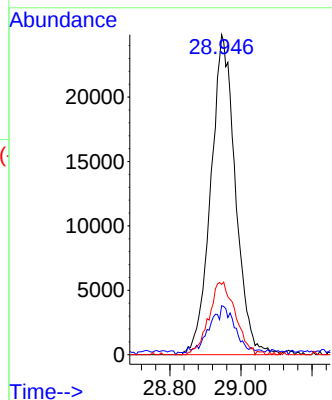
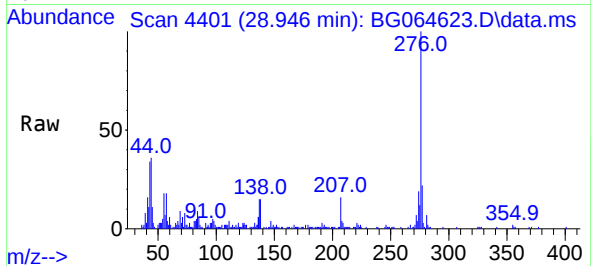




#87
Indeno(1,2,3-cd)pyrene
Concen: 5.219 ng
RT: 28.946 min Scan# 4401
Delta R.T. -0.115 min
Lab File: BG064623.D
Acq: 29 Oct 2025 14:50

Instrument :
BNA_G
ClientSampleId :
SOUTH-MAHWAH-SOIL

Tgt Ion:276 Resp: 119391
Ion Ratio Lower Upper
276 100
138 15.1 10.8 16.2
277 24.2 20.1 30.1



#92
Benzo(g,h,i)perylene
Concen: 5.219 ng
RT: 28.946 min Scan# 4401
Delta R.T. -0.115 min
Lab File: BG064623.D
Acq: 29 Oct 2025 14:50

Tgt Ion:276 Resp: 119391
Ion Ratio Lower Upper
276 100
277 21.9 19.2 28.8
138 15.3 10.7 16.1

