

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG103025\
 Data File : BG064645.D
 Acq On : 30 Oct 2025 17:48
 Operator : RC/JU
 Sample : Q3477-02
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 SOUTH-MAHWAH-SOIL

Quant Time: Oct 30 18:24:31 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)

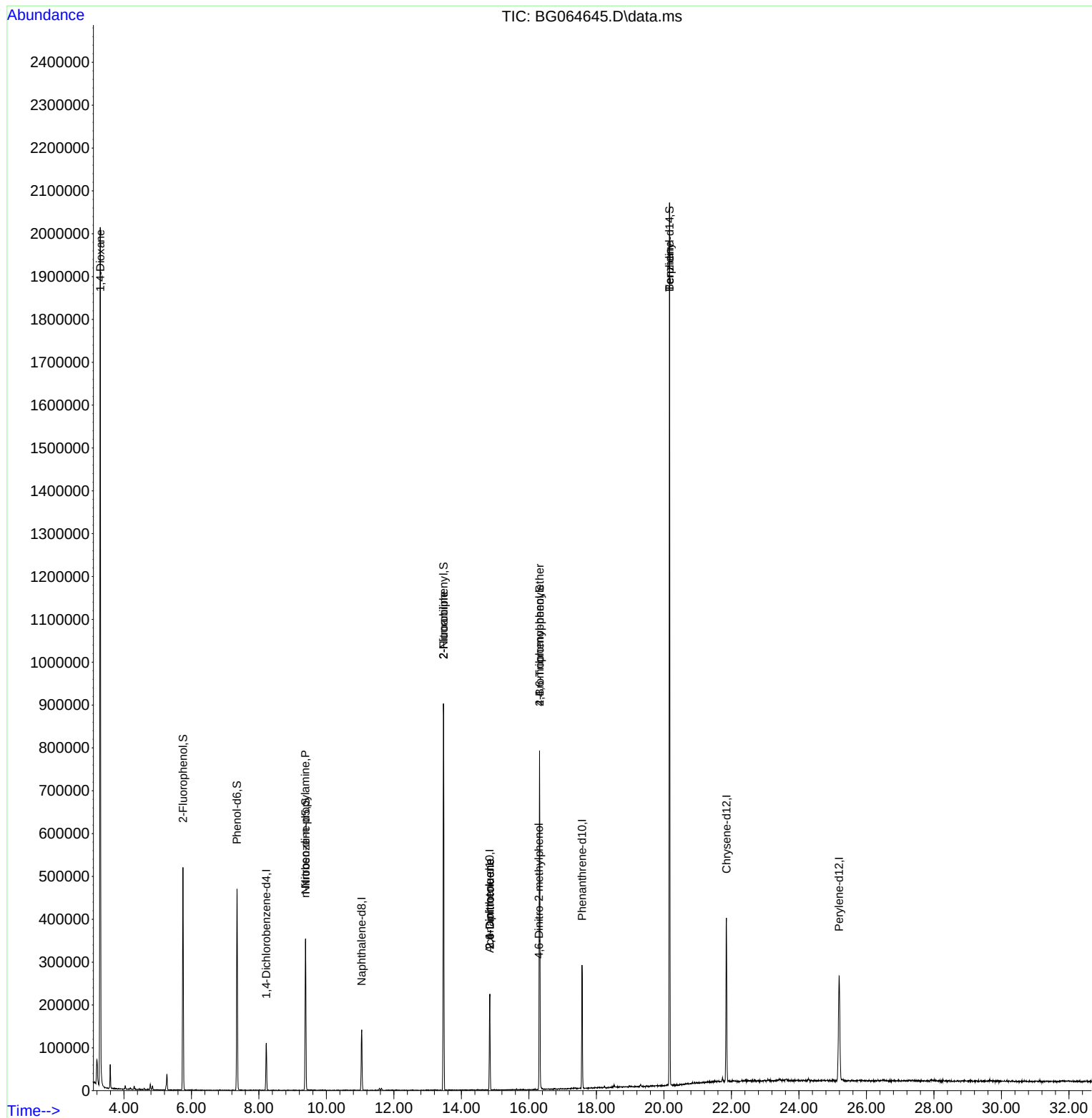
Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.220	152	30061	20.000	ng	0.00
21) Naphthalene-d8	11.046	136	114855	20.000	ng	# 0.00
39) Acenaphthene-d10	14.836	164	80987	20.000	ng	0.00
64) Phenanthrene-d10	17.574	188	188653	20.000	ng	0.00
76) Chrysene-d12	21.851	240	254775	20.000	ng	-0.01
86) Perylene-d12	25.188	264	298400	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.752	112	202551	113.097	ng	0.00
7) Phenol-d6	7.350	99	241583	98.302	ng	0.00
23) Nitrobenzene-d5	9.383	82	198290	103.694	ng	0.00
42) 2,4,6-Tribromophenol	16.316	330	169192	144.746	ng	0.00
45) 2-Fluorobiphenyl	13.467	172	474458	88.799	ng	-0.01
79) Terphenyl-d14	20.165	244	1053482	78.033	ng	-0.01
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.302	88	15546	19.606	ng	# 1
19) n-Nitroso-di-n-propyla...	9.377	70	26537	15.625	ng	# 73
48) 2-Nitroaniline	13.467	65	787	3.728	ng	# 4
51) 2,6-Dinitrotoluene	14.841	165	10802	13.054	ng	# 17
57) 2,4-Dinitrotoluene	14.841	165	10802	9.449	ng	# 20
65) 4,6-Dinitro-2-methylph...	16.299	198	374	5.826	ng	# 67
67) 4-Bromophenyl-phenylether	16.316	248	11228	5.022	ng	# 1
77) Benzidine	20.165	184	16229	2.843	ng	98

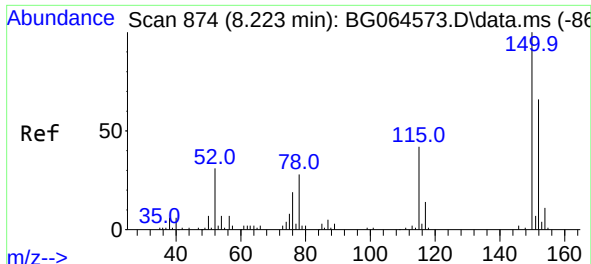
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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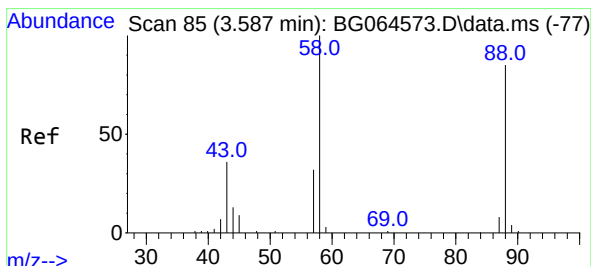
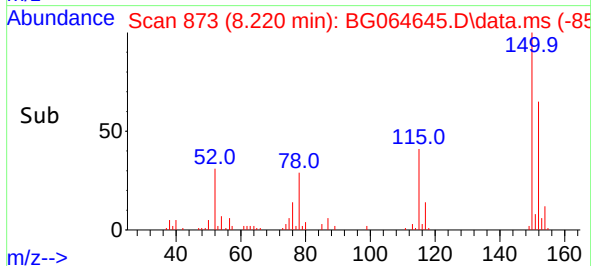
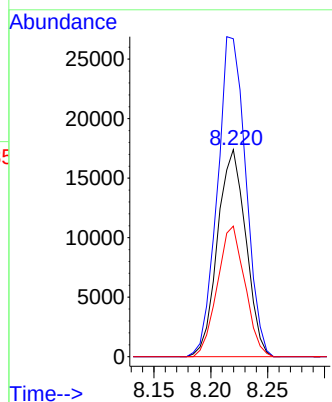
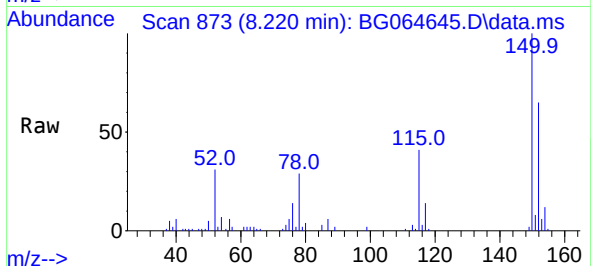




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.220 min Scan# 81
Delta R.T. -0.001 min
Lab File: BG064645.D
Acq: 30 Oct 2025 17:48

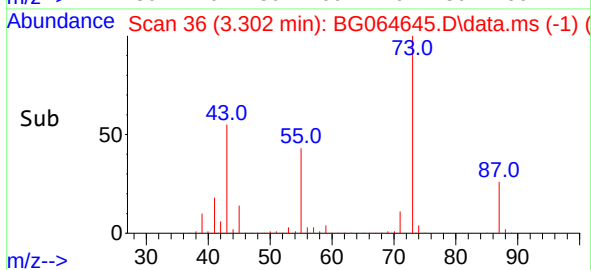
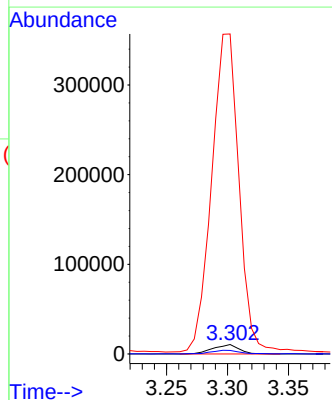
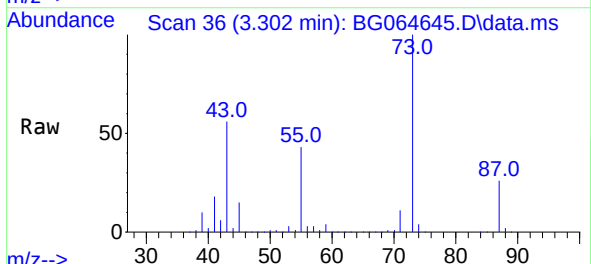
Instrument :
BNA_G
ClientSampleId :
SOUTH-MAHWAH-SOIL

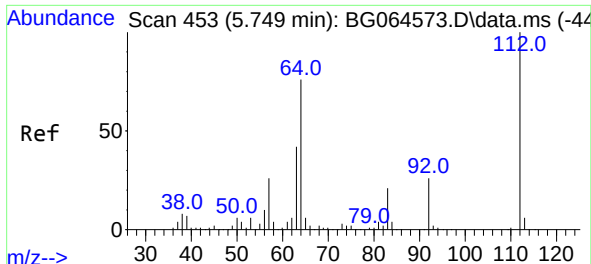
Tgt Ion:152 Resp: 30061
Ion Ratio Lower Upper
152 100
150 153.5 122.2 183.4
115 63.0 50.8 76.2



#2
1,4-Dioxane
Concen: 19.606 ng
RT: 3.302 min Scan# 36
Delta R.T. -0.289 min
Lab File: BG064645.D
Acq: 30 Oct 2025 17:48

Tgt Ion: 88 Resp: 15546
Ion Ratio Lower Upper
88 100
58 44.4 92.4 138.6#
43 3595.2 33.0 49.6#

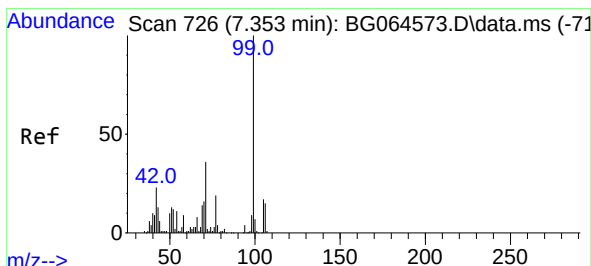
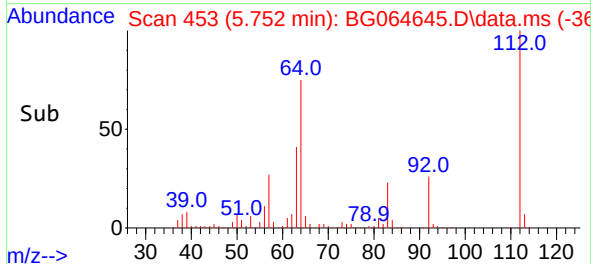
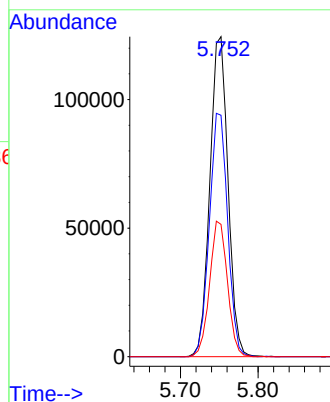
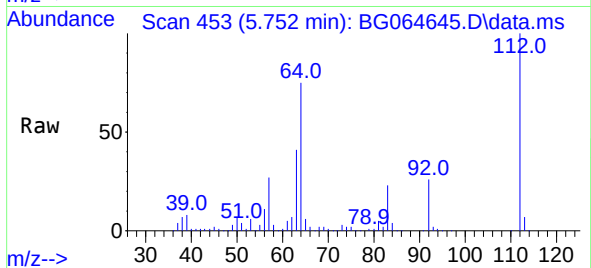




#5
2-Fluorophenol
Concen: 113.097 ng
RT: 5.752 min Scan# 411
Delta R.T. 0.005 min
Lab File: BG064645.D
Acq: 30 Oct 2025 17:48

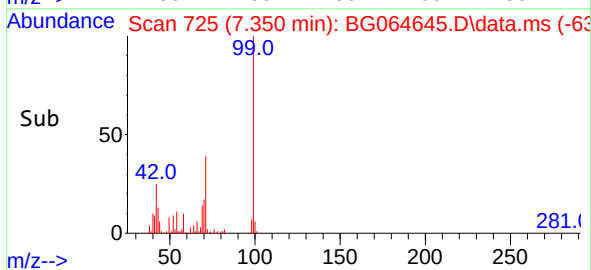
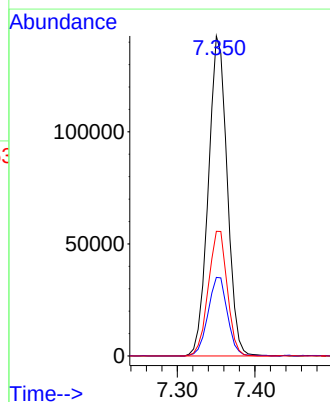
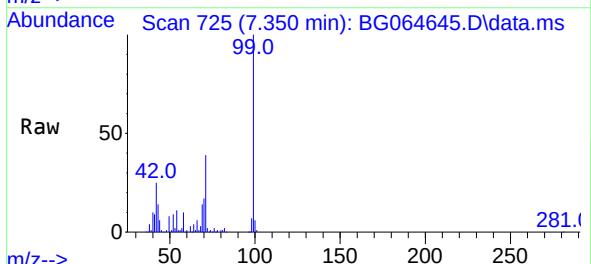
Instrument :
BNA_G
ClientSampleId :
SOUTH-MAHWAH-SOIL

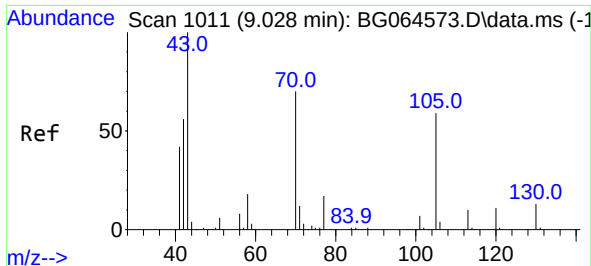
Tgt Ion:112 Resp: 202551
Ion Ratio Lower Upper
112 100
64 75.4 60.7 91.1
63 41.3 33.4 50.0



#7
Phenol-d6
Concen: 98.302 ng
RT: 7.350 min Scan# 725
Delta R.T. -0.007 min
Lab File: BG064645.D
Acq: 30 Oct 2025 17:48

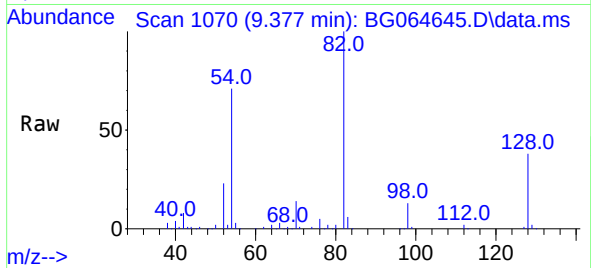
Tgt Ion: 99 Resp: 241583
Ion Ratio Lower Upper
99 100
42 24.5 18.3 27.5
71 39.0 28.6 43.0





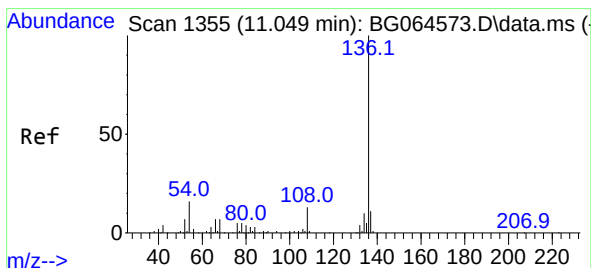
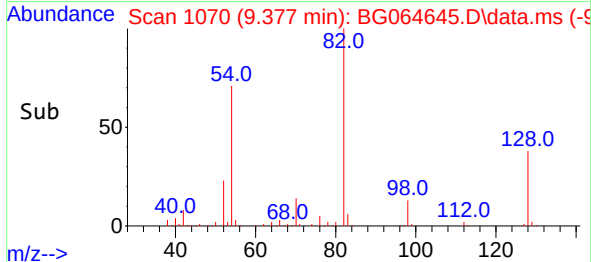
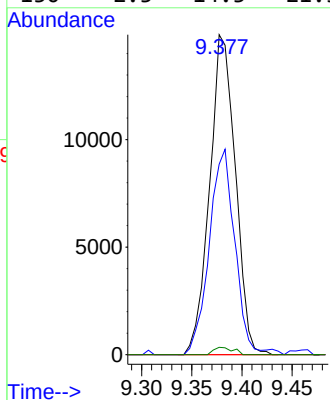
#19
n-Nitroso-di-n-propylamine
Concen: 15.625 ng
RT: 9.377 min Scan# 1011
Delta R.T. 0.346 min
Lab File: BG064645.D
Acq: 30 Oct 2025 17:48

Instrument :
BNA_G
ClientSampleId :
SOUTH-MAHWAH-SOIL



Tgt Ion: 70 Resp: 26537

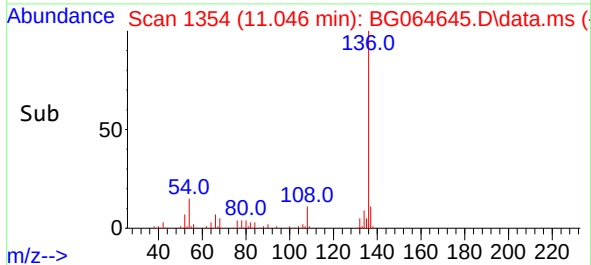
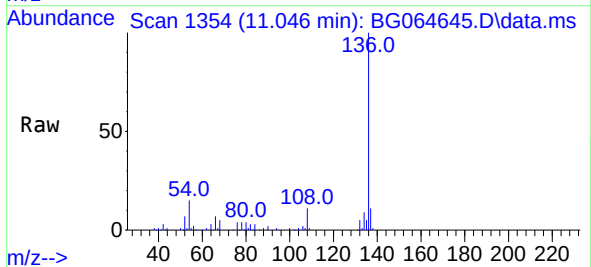
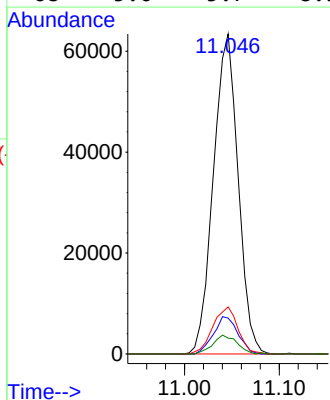
Ion	Ratio	Lower	Upper
70	100		
42	59.5	65.2	97.8#
101	0.0	7.9	11.9#
130	2.3	14.3	21.5#

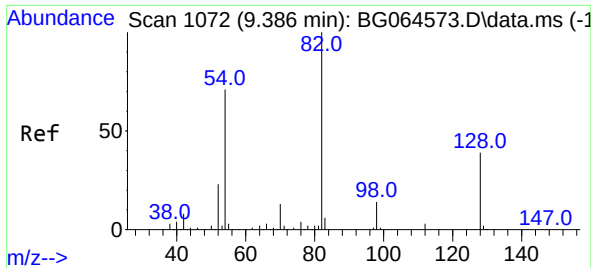


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 11.046 min Scan# 1354
Delta R.T. -0.007 min
Lab File: BG064645.D
Acq: 30 Oct 2025 17:48

Tgt Ion: 136 Resp: 114855

Ion	Ratio	Lower	Upper
136	100		
137	11.2	9.2	13.8
54	14.7	12.6	19.0
68	5.0	5.7	8.5#

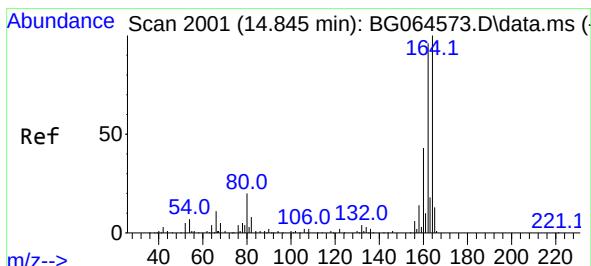
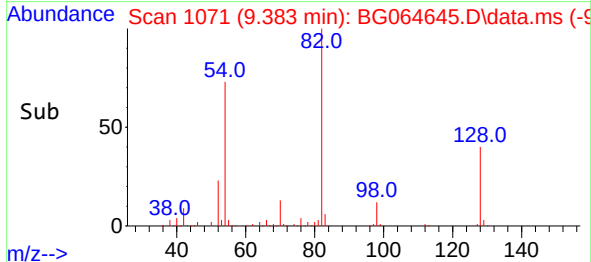
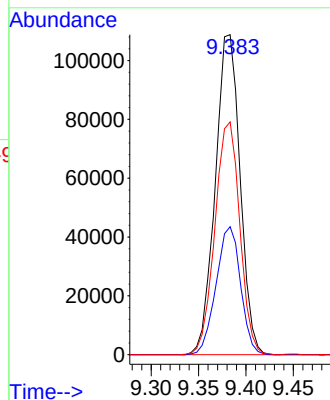
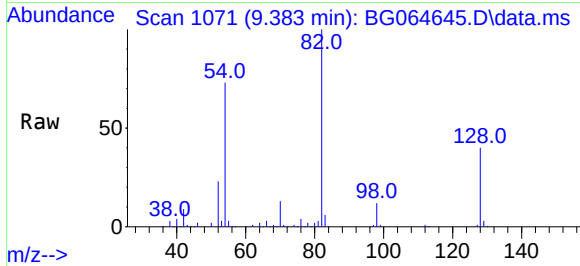




#23
Nitrobenzene-d5
Concen: 103.694 ng
RT: 9.383 min Scan# 1072
Delta R.T. -0.007 min
Lab File: BG064645.D
Acq: 30 Oct 2025 17:48

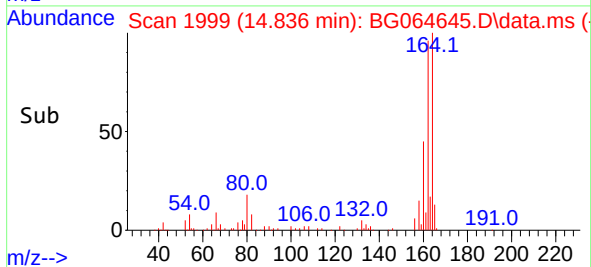
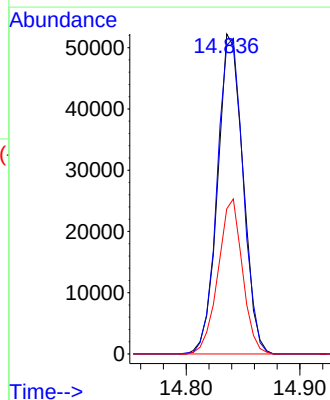
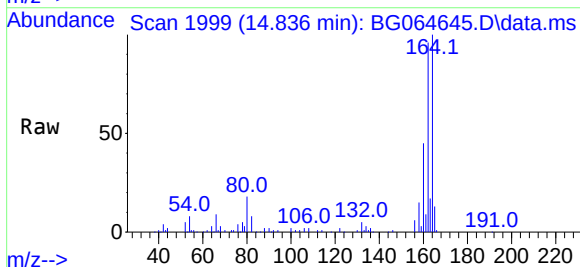
Instrument :
BNA_G
ClientSampleId :
SOUTH-MAHWAH-SOIL

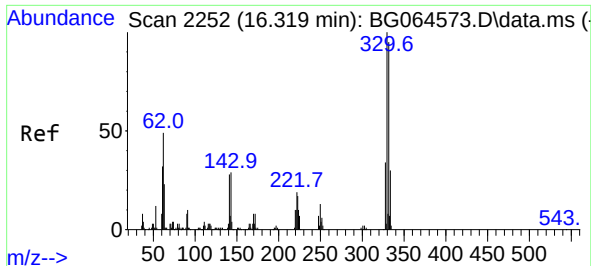
Tgt Ion: 82 Resp: 198290
Ion Ratio Lower Upper
82 100
128 40.0 31.3 46.9
54 72.7 56.6 84.8



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.836 min Scan# 1999
Delta R.T. -0.007 min
Lab File: BG064645.D
Acq: 30 Oct 2025 17:48

Tgt Ion:164 Resp: 80987
Ion Ratio Lower Upper
164 100
162 96.5 77.0 115.6
160 45.3 34.4 51.6

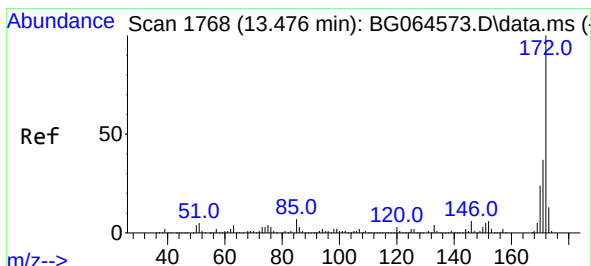
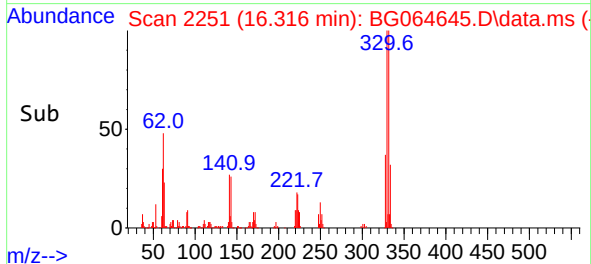
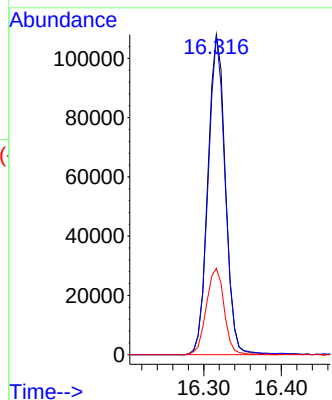
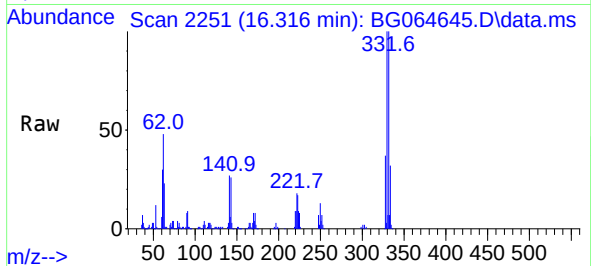




#42
2,4,6-Tribromophenol
Concen: 144.746 ng
RT: 16.316 min Scan# 21
Delta R.T. -0.007 min
Lab File: BG064645.D
Acq: 30 Oct 2025 17:48

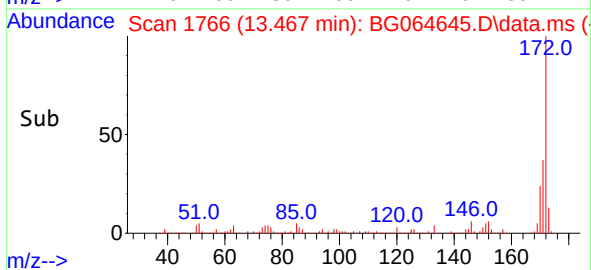
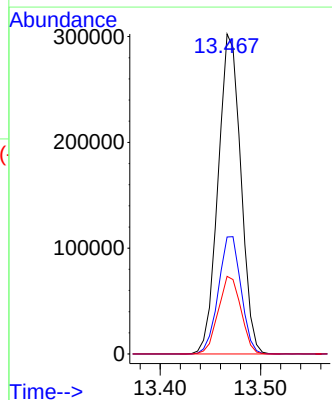
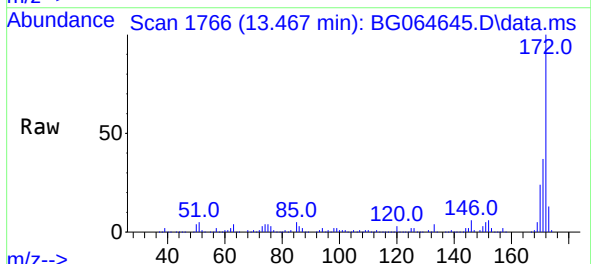
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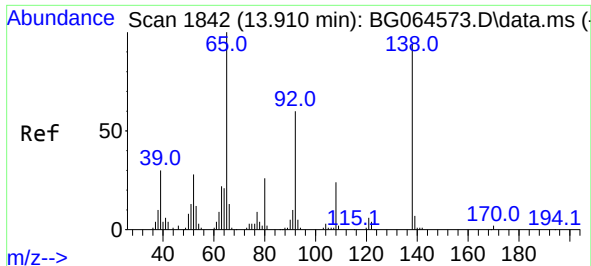
Tgt Ion:330 Resp: 169192
Ion Ratio Lower Upper
330 100
332 96.7 78.0 117.0
141 27.4 21.8 32.6



#45
2-Fluorobiphenyl
Concen: 88.799 ng
RT: 13.467 min Scan# 1766
Delta R.T. -0.012 min
Lab File: BG064645.D
Acq: 30 Oct 2025 17:48

Tgt Ion:172 Resp: 474458
Ion Ratio Lower Upper
172 100
171 36.6 29.4 44.0
170 24.2 19.1 28.7

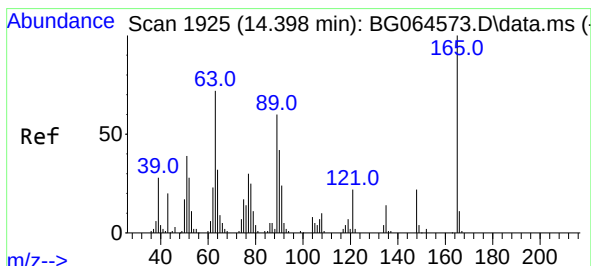
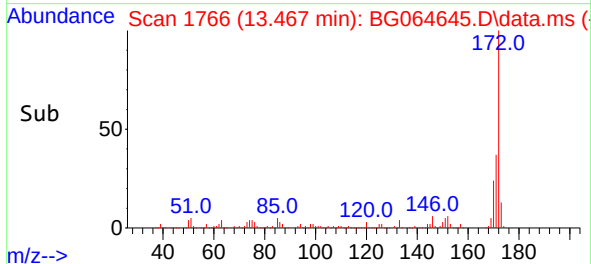
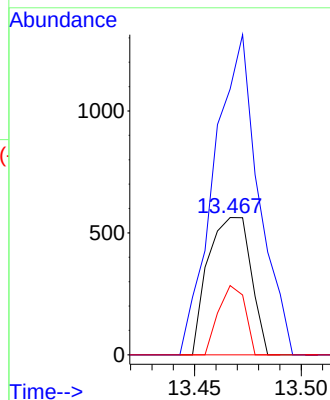
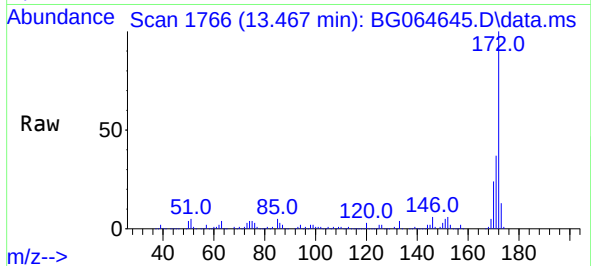




#48
2-Nitroaniline
Concen: 3.728 ng
RT: 13.467 min Scan# 11
Delta R.T. -0.447 min
Lab File: BG064645.D
Acq: 30 Oct 2025 17:48

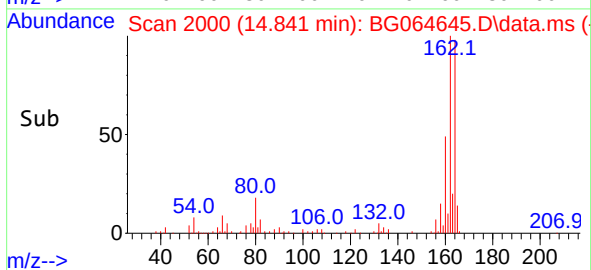
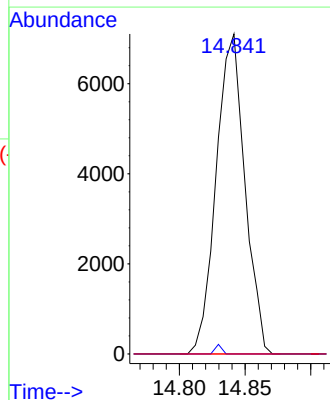
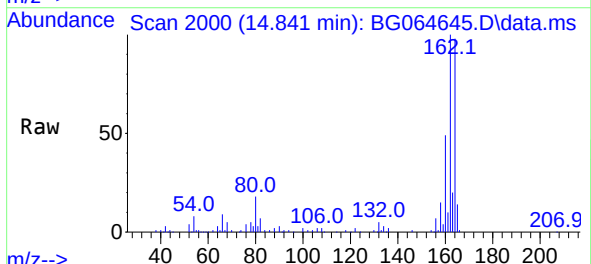
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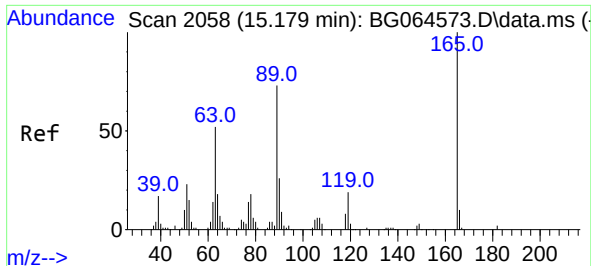
Tgt Ion: 65 Resp: 787
Ion Ratio Lower Upper
65 100
92 193.6 48.3 72.5#
138 50.4 74.9 112.3#



#51
2,6-Dinitrotoluene
Concen: 13.054 ng
RT: 14.841 min Scan# 2000
Delta R.T. 0.439 min
Lab File: BG064645.D
Acq: 30 Oct 2025 17:48

Tgt Ion:165 Resp: 10802
Ion Ratio Lower Upper
165 100
63 0.0 57.4 86.0#
89 0.0 47.8 71.8#





#57

2,4-Dinitrotoluene

Concen: 9.449 ng

RT: 14.841 min Scan# 2058

Delta R.T. -0.348 min

Lab File: BG064645.D

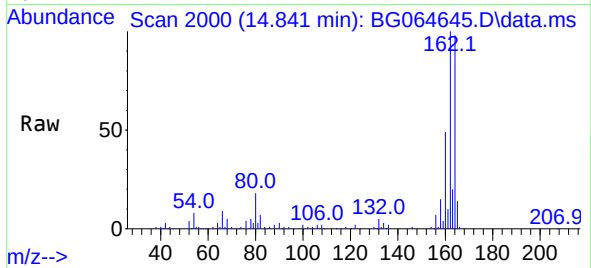
Acq: 30 Oct 2025 17:48

Instrument :

BNA_G

ClientSampleId :

SOUTH-MAHWAH-SOIL



Tgt Ion:165 Resp: 10802

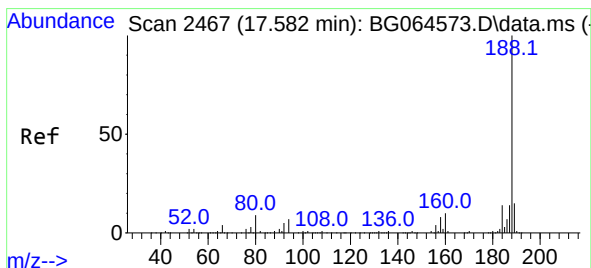
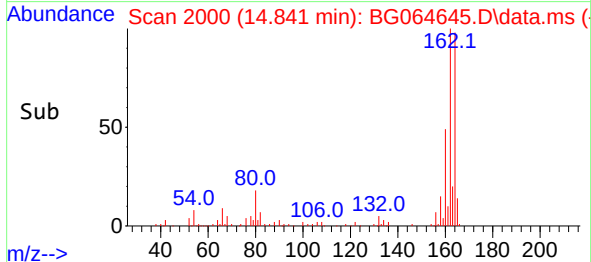
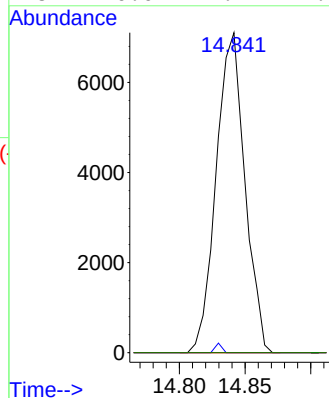
Ion Ratio Lower Upper

165 100

63 0.0 41.8 62.8#

89 0.0 58.1 87.1#

182 0.0 1.4 2.0#



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.574 min Scan# 2465

Delta R.T. -0.006 min

Lab File: BG064645.D

Acq: 30 Oct 2025 17:48

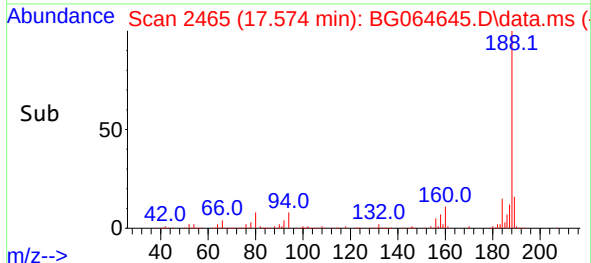
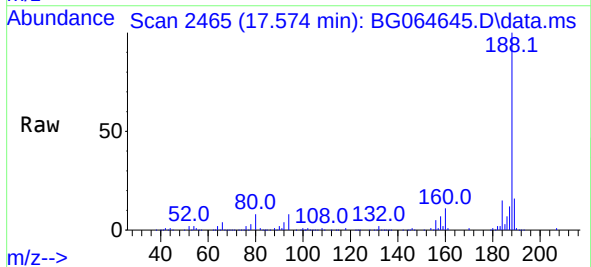
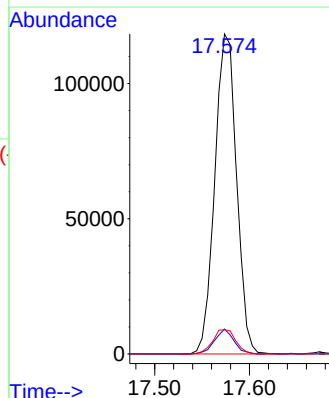
Tgt Ion:188 Resp: 188653

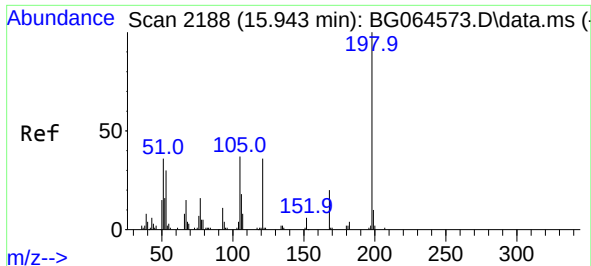
Ion Ratio Lower Upper

188 100

94 7.8 5.7 8.5

80 7.6 6.8 10.2

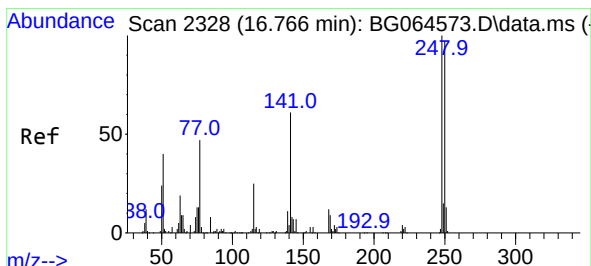
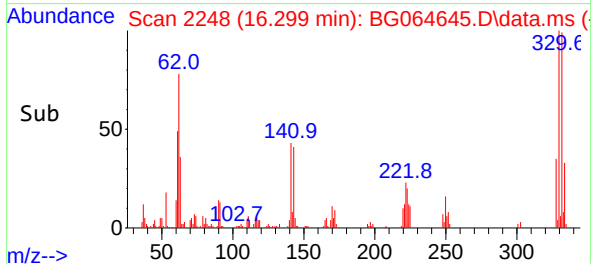
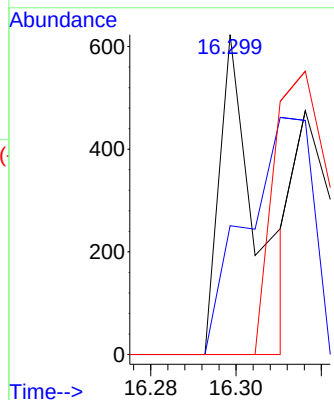
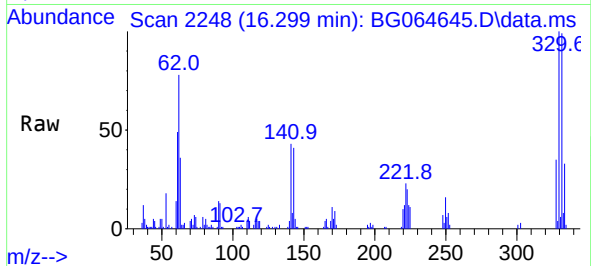




#65
4,6-Dinitro-2-methylphenol
Concen: 5.826 ng
RT: 16.299 min Scan# 2188
Delta R.T. 0.352 min
Lab File: BG064645.D
Acq: 30 Oct 2025 17:48

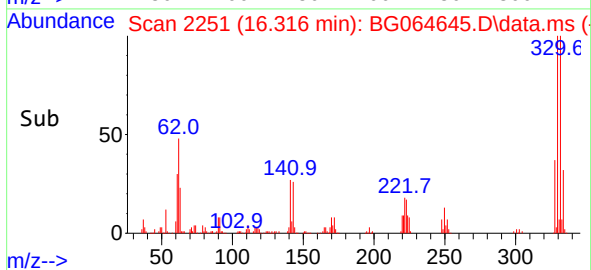
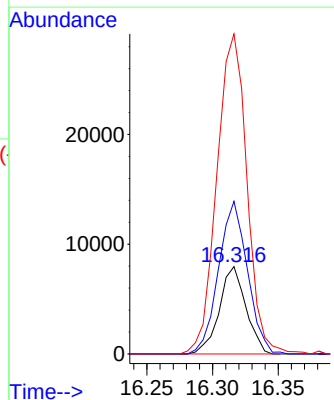
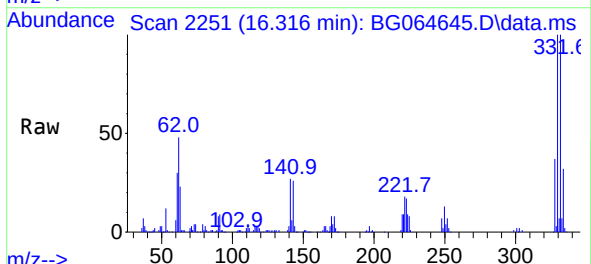
Instrument :
BNA_G
ClientSampleId :
SOUTH-MAHWAH-SOIL

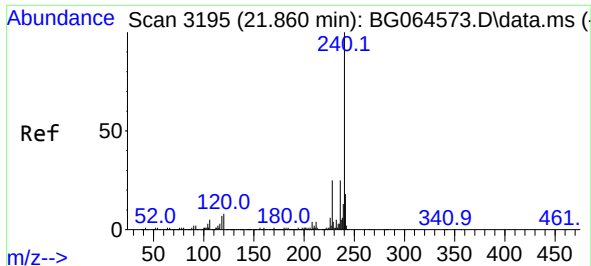
Tgt Ion:198 Resp: 374
Ion Ratio Lower Upper
198 100
51 40.3 24.7 64.7
105 0.0 18.0 58.0#



#67
4-Bromophenyl-phenylether
Concen: 5.022 ng
RT: 16.316 min Scan# 2251
Delta R.T. -0.453 min
Lab File: BG064645.D
Acq: 30 Oct 2025 17:48

Tgt Ion:248 Resp: 11228
Ion Ratio Lower Upper
248 100
250 174.4 77.7 116.5#
141 280.3 48.6 72.8#

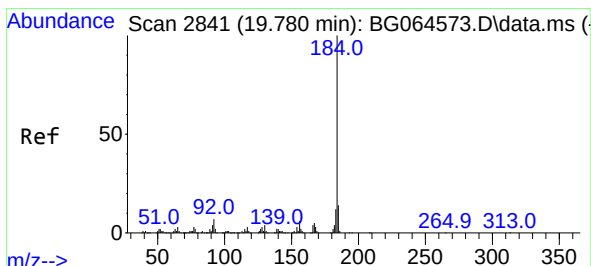
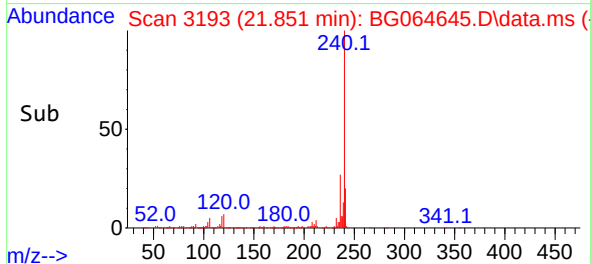
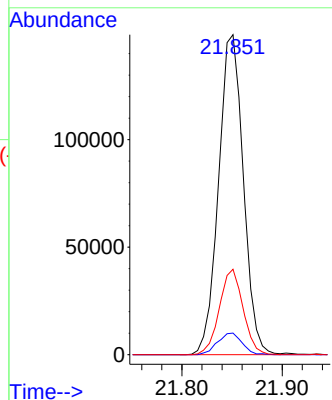
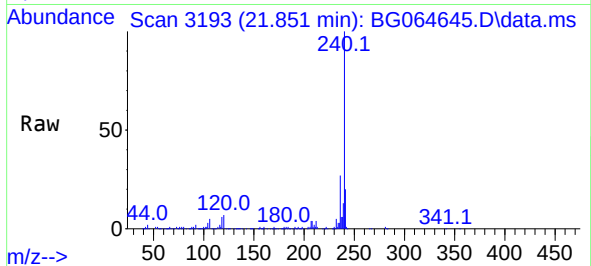




#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.851 min Scan# 31
Delta R.T. -0.012 min
Lab File: BG064645.D
Acq: 30 Oct 2025 17:48

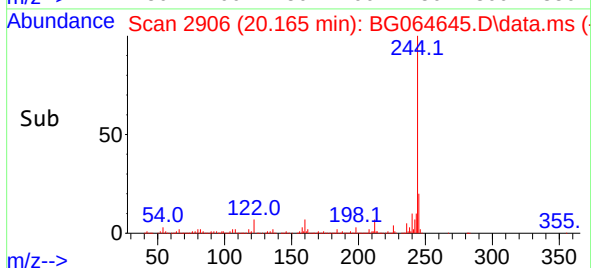
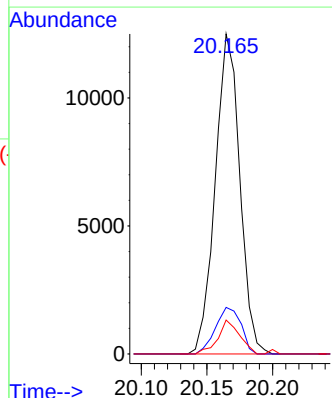
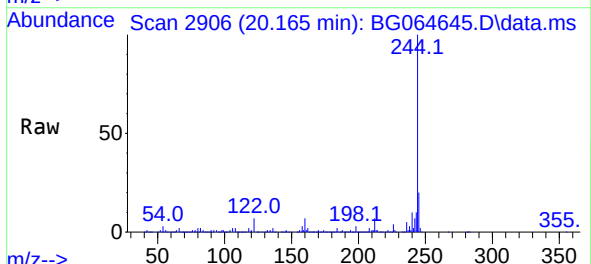
Instrument :
BNA_G
ClientSampleId :
SOUTH-MAHWAH-SOIL

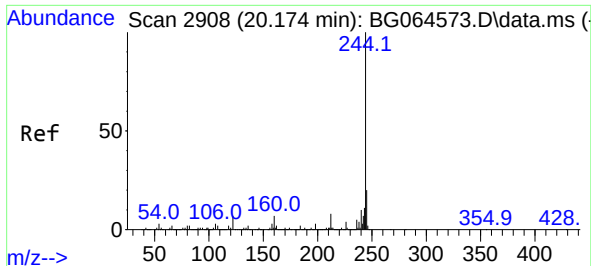
Tgt Ion:240 Resp: 254775
Ion Ratio Lower Upper
240 100
120 6.7 6.5 9.7
236 26.7 20.2 30.2



#77
Benzidine
Concen: 2.843 ng
RT: 20.165 min Scan# 2906
Delta R.T. 0.381 min
Lab File: BG064645.D
Acq: 30 Oct 2025 17:48

Tgt Ion:184 Resp: 16229
Ion Ratio Lower Upper
184 100
185 14.6 11.4 17.2
183 10.6 9.4 14.2

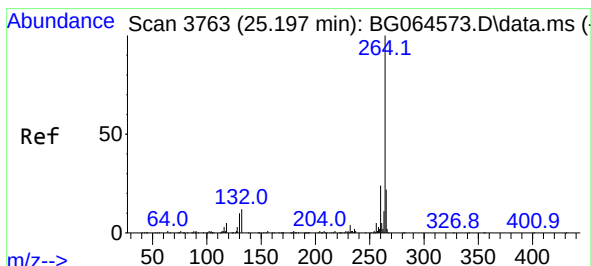
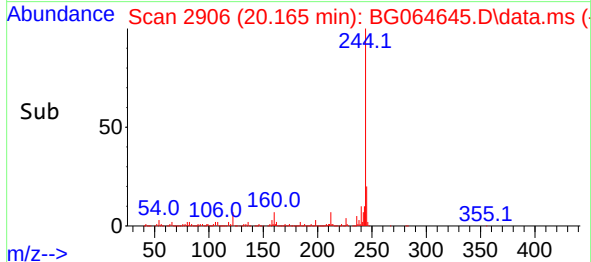
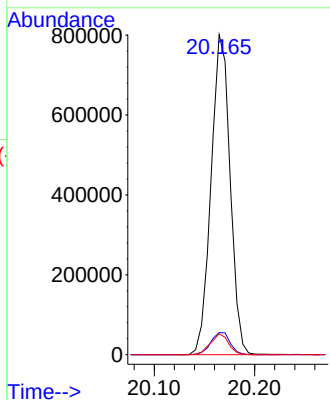
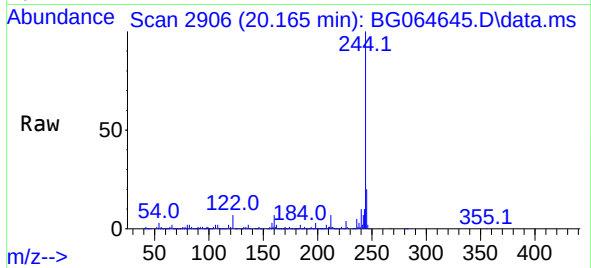




#79
 Terphenyl-d14
 Concen: 78.033 ng
 RT: 20.165 min Scan# 2906
 Delta R.T. -0.012 min
 Lab File: BG064645.D
 Acq: 30 Oct 2025 17:48

Instrument :
 BNA_G
 ClientSampleId :
 SOUTH-MAHWAH-SOIL

Tgt Ion:244 Resp: 1053482
 Ion Ratio Lower Upper
 244 100
 212 6.9 6.1 9.1
 122 6.6 5.6 8.4



#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 25.188 min Scan# 3761
 Delta R.T. -0.012 min
 Lab File: BG064645.D
 Acq: 30 Oct 2025 17:48

Tgt Ion:264 Resp: 298400
 Ion Ratio Lower Upper
 264 100
 260 22.6 19.0 28.4
 265 20.8 17.6 26.4

