

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG112025\
 Data File : BG064833.D
 Acq On : 20 Nov 2025 14:19
 Operator : RC/JU
 Sample : Q3530-02
 Misc : LOQ-SOIL-2.5NG
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 LOQ-SOIL-02-QT4-2025

Quant Time: Nov 20 14:54:56 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG11225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 12 17:10:56 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.164	152	38430	20.000	ng	# 0.00
21) Naphthalene-d8	10.978	136	147458	20.000	ng	0.00
39) Acenaphthene-d10	14.774	164	124242	20.000	ng	0.00
64) Phenanthrene-d10	17.500	188	318498	20.000	ng	0.00
76) Chrysene-d12	21.748	240	389730	20.000	ng	0.00
86) Perylene-d12	25.003	264	390187	20.000	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.696	112	257373	116.947	ng	0.00
7) Phenol-d6	7.306	99	341751	116.754	ng	0.00
23) Nitrobenzene-d5	9.322	82	209419	70.218	ng	0.00
42) 2,4,6-Tribromophenol	16.249	330	297529	122.788	ng	0.00
45) 2-Fluorobiphenyl	13.405	172	611670	68.696	ng	0.00
79) Terphenyl-d14	20.085	244	1552489	78.359	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.528	88	2463	2.891	ng	84
4) n-Nitrosodimethylamine	3.851	42	2622	2.029	ng	# 84
6) Aniline	7.471	93	8614	2.208	ng	# 90
8) 2-Chlorophenol	7.723	128	5697	2.358	ng	82
9) Benzaldehyde	7.283	77	5225	2.727	ng	# 80
10) Phenol	7.330	94	6655	2.090	ng	# 70
11) bis(2-Chloroethyl)ether	7.571	93	4795	2.116	ng	89
12) 1,3-Dichlorobenzene	8.047	146	6022	2.166	ng	89
13) 1,4-Dichlorobenzene	8.199	146	6006	2.121	ng	94
14) 1,2-Dichlorobenzene	8.517	146	6521	2.375	ng	96
18) Hexachloroethane	9.263	117	2169	2.023	ng	81
19) n-Nitroso-di-n-propyla...	8.963	70	4198	2.121	ng	# 78
22) Acetophenone	8.981	105	8398	2.090	ng	# 96
24) Nitrobenzene	9.363	77	7094	2.354	ng	# 86
25) Isophorone	9.886	82	11843	2.085	ng	# 95
28) bis(2-Chloroethoxy)met...	10.367	93	6411	2.056	ng	# 89
30) 1,2,4-Trichlorobenzene	10.837	180	7032	2.253	ng	95
31) Naphthalene	11.031	128	18444	2.206	ng	# 93
32) Benzoic acid	10.273	122	585	6.184	ng	# 57
34) Hexachlorobutadiene	11.319	225	5601	2.091	ng	# 89
37) 2-Methylnaphthalene	12.618	142	12674	2.026	ng	93
38) 1-Methylnaphthalene	12.841	142	12480	2.008	ng	99
40) 1,2,4,5-Tetrachloroben...	12.982	216	10376	2.146	ng	98
43) 2,4,6-Trichlorophenol	13.287	196	5830	2.054	ng	90
46) 1,1'-Biphenyl	13.611	154	18998	2.129	ng	96
47) 2-Chloronaphthalene	13.658	162	14936	2.125	ng	# 91
49) Acenaphthylene	14.498	152	24840	2.068	ng	98
50) Dimethylphthalate	14.210	163	20428	2.081	ng	# 98
51) 2,6-Dinitrotoluene	14.333	165	4009	2.123	ng	89
52) Acenaphthene	14.839	154	14630	2.032	ng	93
54) 2,4-Dinitrophenol	14.874	184	71	8.633	ng	# 57
55) Dibenzofuran	15.168	168	26581	2.233	ng	96
58) Fluorene	15.808	166	20849	2.233	ng	# 92
59) 2,3,4,6-Tetrachlorophenol	15.391	232	7234	2.304	ng	# 94
60) Diethylphthalate	15.567	149	19321	2.055	ng	# 93
61) 4-Chlorophenyl-phenyle...	15.796	204	12355	2.205	ng	98

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Instrument :
 BNA_G
 ClientSampleId :
 LOQ-SOIL-02-QT4-2025

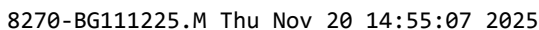
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 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 12 17:10:56 2025
 Response via : Initial Calibration

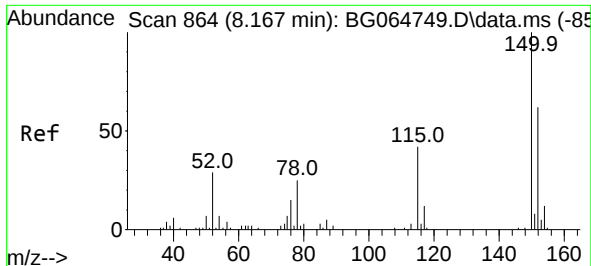
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

63) Azobenzene	16.090	77	17285	2.210	ng	98
66) n-Nitrosodiphenylamine	16.008	169	17522	2.100	ng	97
67) 4-Bromophenyl-phenylether	16.689	248	8602	2.057	ng	94
68) Hexachlorobenzene	16.813	284	11166	2.203	ng	# 95
69) Atrazine	16.936	200	8194	2.037	ng	90
70) Pentachlorophenol	17.154	266	4154	7.422	ng	91
71) Phenanthrene	17.541	178	39404	2.261	ng	97
72) Anthracene	17.629	178	38668	2.176	ng	99
73) Carbazole	17.894	167	34080	2.231	ng	98
74) Di-n-butylphthalate	18.446	149	37689	2.212	ng	# 95
75) Fluoranthene	19.539	202	51873	2.177	ng	98
78) Pyrene	19.892	202	55752	2.552	ng	97
80) Butylbenzylphthalate	20.761	149	18792	2.446	ng	89
81) Benzo(a)anthracene	21.725	228	57595	2.173	ng	99
82) 3,3'-Dichlorobenzidine	21.642	252	21185	2.172	ng	# 95
83) Chrysene	21.795	228	55804	2.234	ng	98
84) Bis(2-ethylhexyl)phtha...	21.625	149	26488	2.359	ng	97
85) Di-n-octyl phthalate	22.847	149	42234	2.176	ng	# 96
87) Indeno(1,2,3-cd)pyrene	28.716	276	59521	2.220	ng	# 81
88) Benzo(b)fluoranthene	23.963	252	51189	2.062	ng	99
89) Benzo(k)fluoranthene	23.963	252	51189	2.052	ng	99
90) Benzo(a)pyrene	24.845	252	50889	2.209	ng	98
91) Dibenzo(a,h)anthracene	28.787	278	50092	2.281	ng	# 91

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

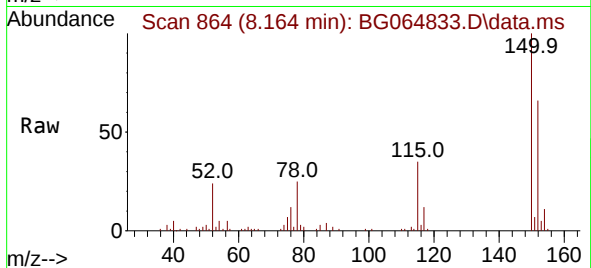
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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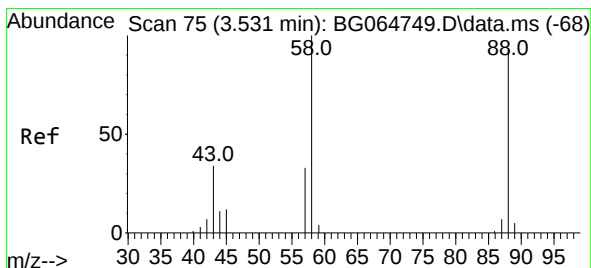
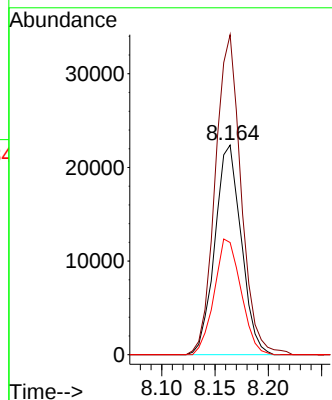
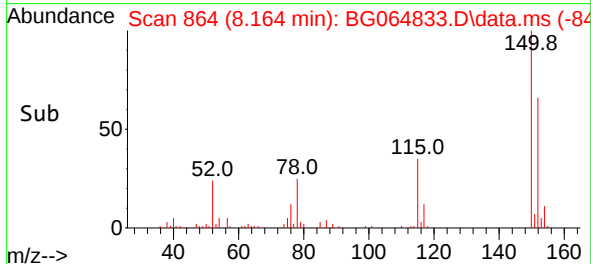


#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 8.164 min Scan# 80
 Delta R.T. -0.003 min
 Lab File: BG064833.D
 Acq: 20 Nov 2025 14:19

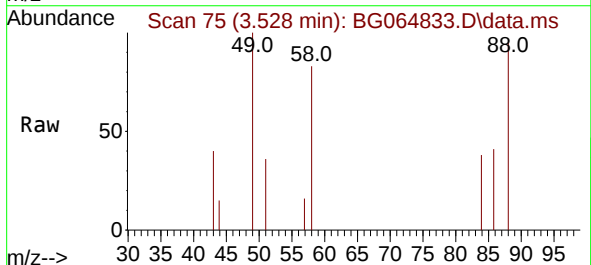
Instrument :
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 ClientSampleId :
 LOQ-SOIL-02-QT4-2025



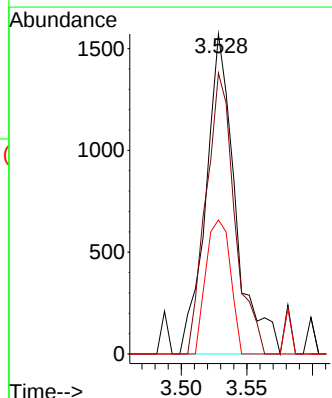
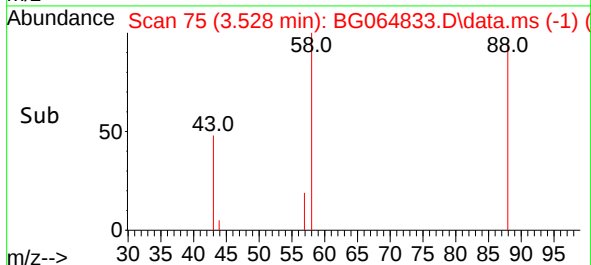
Tgt Ion:152 Resp: 38430
 Ion Ratio Lower Upper
 152 100
 150 152.6 129.2 193.8
 115 53.5 53.7 80.5#

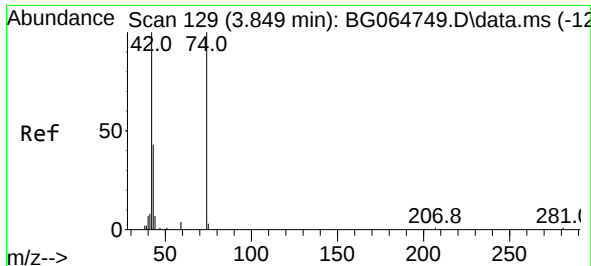


#2
 1,4-Dioxane
 Concen: 2.891 ng
 RT: 3.528 min Scan# 75
 Delta R.T. -0.003 min
 Lab File: BG064833.D
 Acq: 20 Nov 2025 14:19



Tgt Ion: 88 Resp: 2463
 Ion Ratio Lower Upper
 88 100
 58 84.8 84.6 126.8
 43 34.7 30.0 45.0

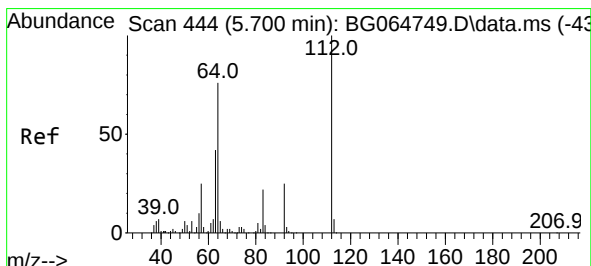
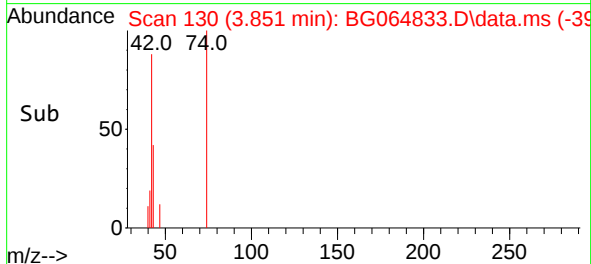
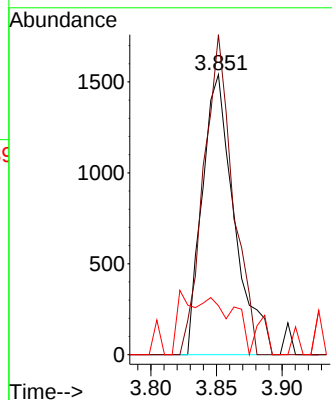
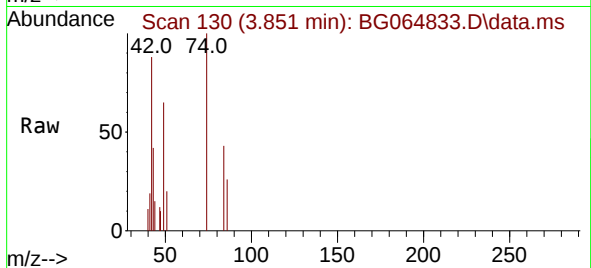




#4
n-Nitrosodimethylamine
Concen: 2.029 ng
RT: 3.851 min Scan# 11
Delta R.T. 0.003 min
Lab File: BG064833.D
Acq: 20 Nov 2025 14:19

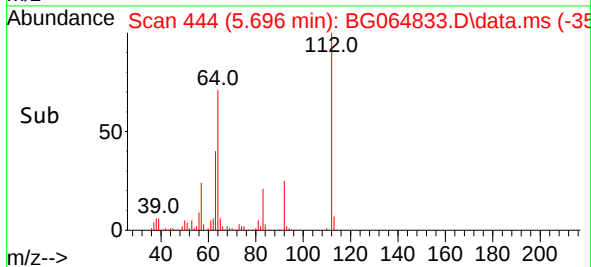
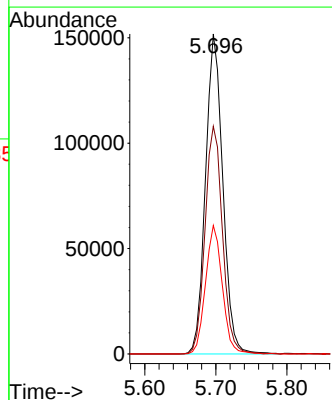
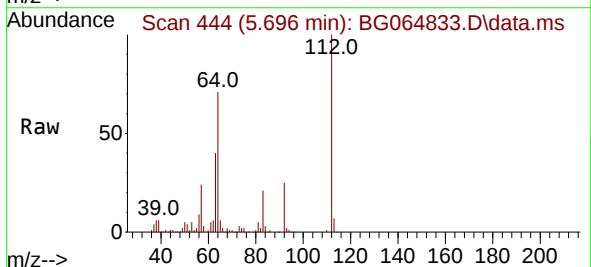
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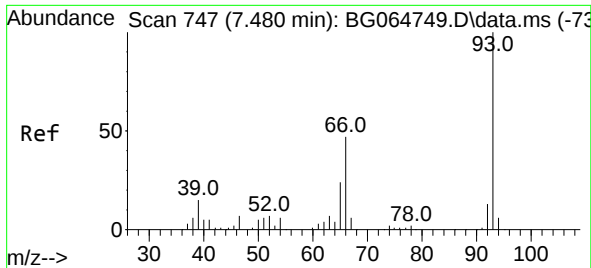
Tgt Ion: 42 Resp: 2622
Ion Ratio Lower Upper
42 100
74 114.2 79.8 119.6
44 17.5 5.9 8.9#



#5
2-Fluorophenol
Concen: 116.947 ng
RT: 5.696 min Scan# 444
Delta R.T. -0.003 min
Lab File: BG064833.D
Acq: 20 Nov 2025 14:19

Tgt Ion: 112 Resp: 257373
Ion Ratio Lower Upper
112 100
64 71.2 61.0 91.4
63 40.1 33.3 49.9

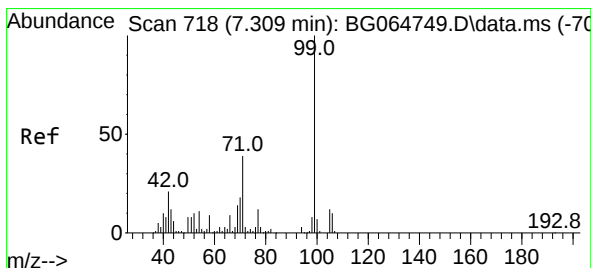
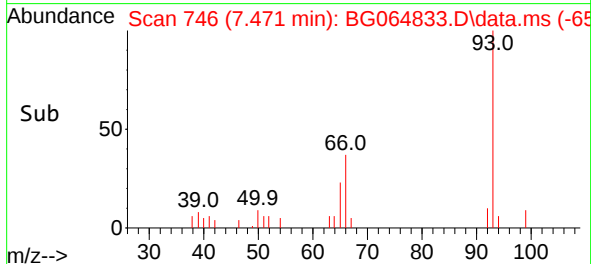
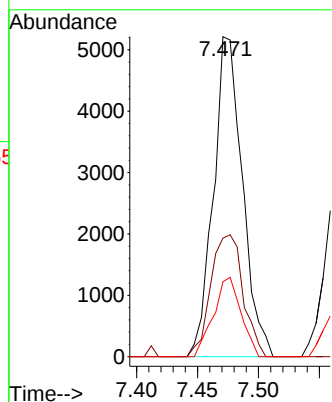
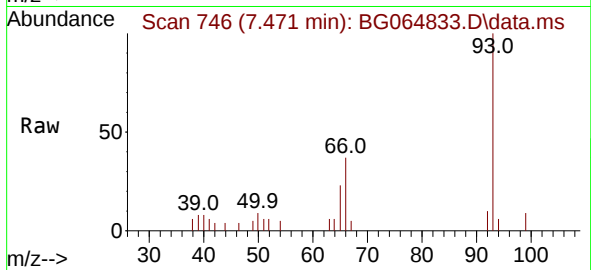




#6
Aniline
Concen: 2.208 ng
RT: 7.471 min Scan# 746
Delta R.T. -0.009 min
Lab File: BG064833.D
Acq: 20 Nov 2025 14:19

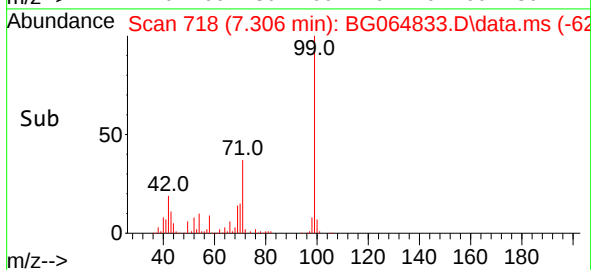
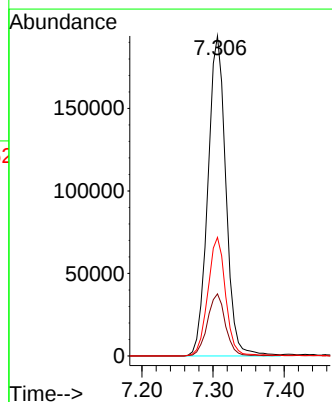
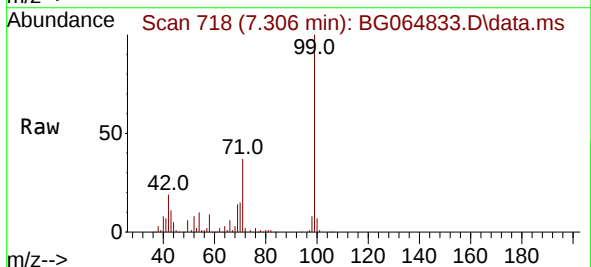
Instrument : BNA_G
ClientSampleId : LOQ-SOIL-02-QT4-2025

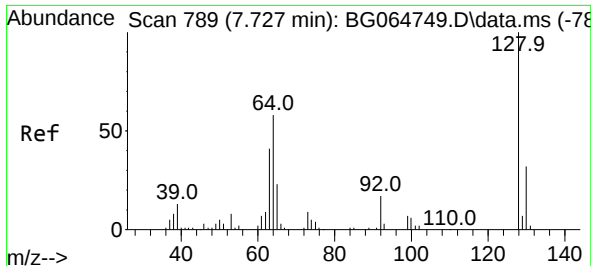
Tgt Ion: 93 Resp: 8614
Ion Ratio Lower Upper
93 100
66 37.1 37.7 56.5#
65 23.4 19.1 28.7



#7
Phenol-d6
Concen: 116.754 ng
RT: 7.306 min Scan# 718
Delta R.T. -0.003 min
Lab File: BG064833.D
Acq: 20 Nov 2025 14:19

Tgt Ion: 99 Resp: 341751
Ion Ratio Lower Upper
99 100
42 19.4 16.8 25.2
71 37.1 31.1 46.7

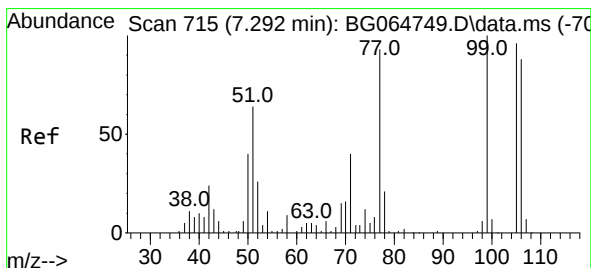
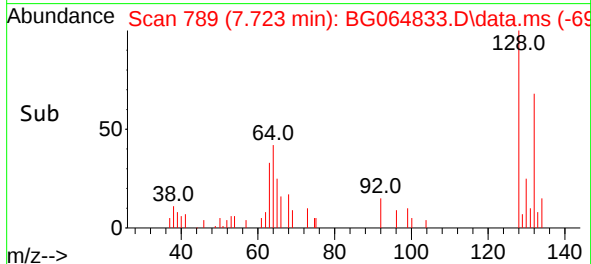
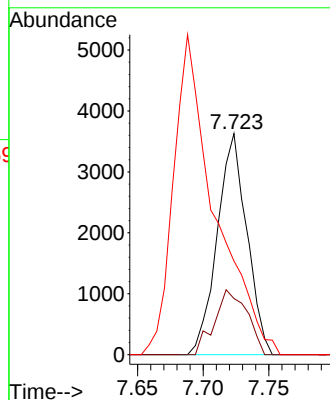
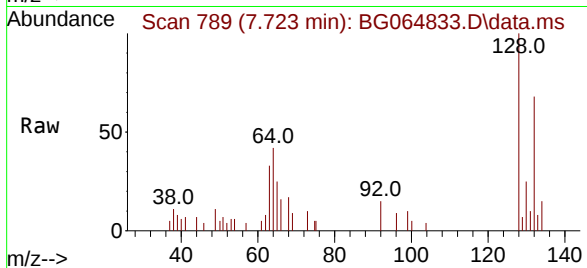




#8
2-Chlorophenol
Concen: 2.358 ng
RT: 7.723 min Scan# 713
Delta R.T. -0.003 min
Lab File: BG064833.D
Acq: 20 Nov 2025 14:19

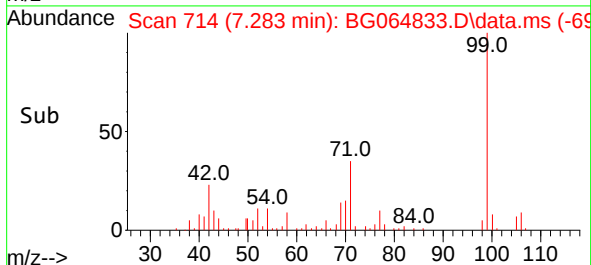
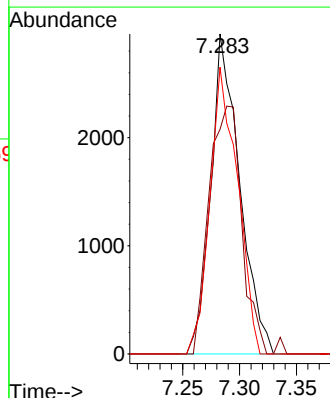
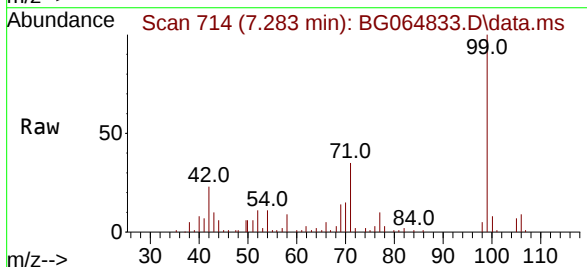
Instrument :
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ClientSampleId :
LOQ-SOIL-02-QT4-2025

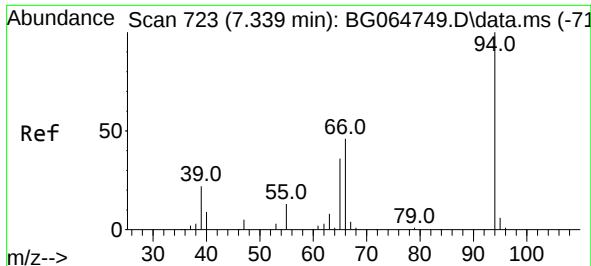
Tgt Ion:128 Resp: 5697
Ion Ratio Lower Upper
128 100
130 25.4 11.9 51.9
64 42.3 38.4 78.4



#9
Benzaldehyde
Concen: 2.727 ng
RT: 7.283 min Scan# 714
Delta R.T. -0.009 min
Lab File: BG064833.D
Acq: 20 Nov 2025 14:19

Tgt Ion: 77 Resp: 5225
Ion Ratio Lower Upper
77 100
105 70.2 83.8 123.8#
106 89.6 74.3 114.3

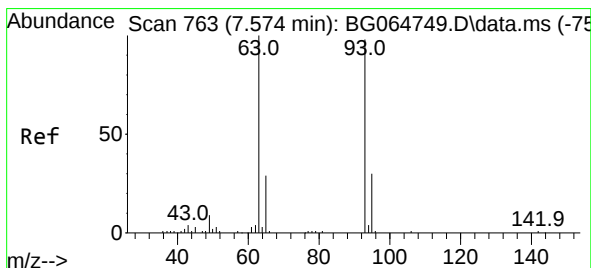
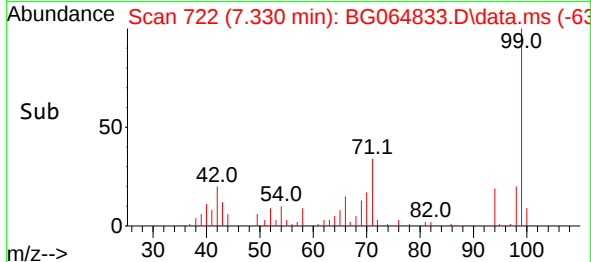
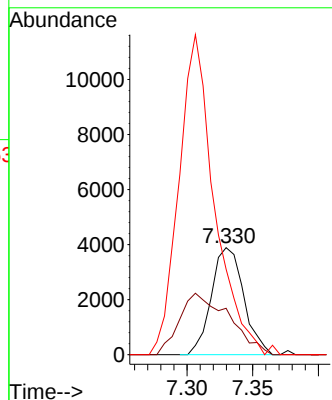
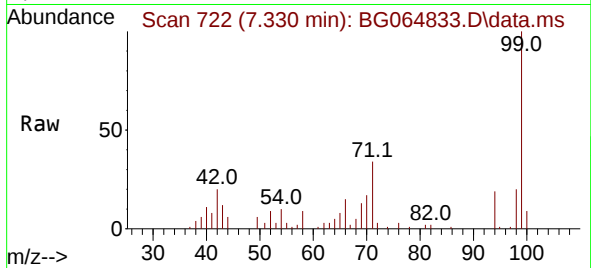




#10
Phenol
Concen: 2.090 ng
RT: 7.330 min Scan# 71
Delta R.T. -0.009 min
Lab File: BG064833.D
Acq: 20 Nov 2025 14:19

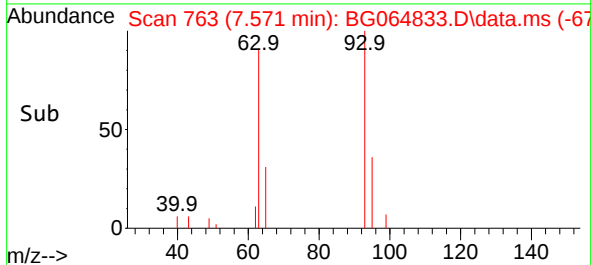
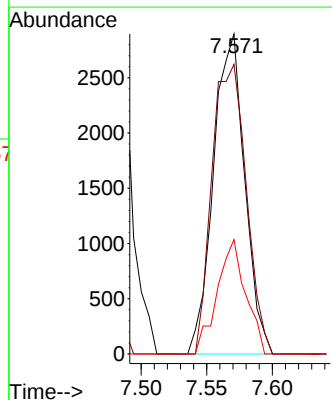
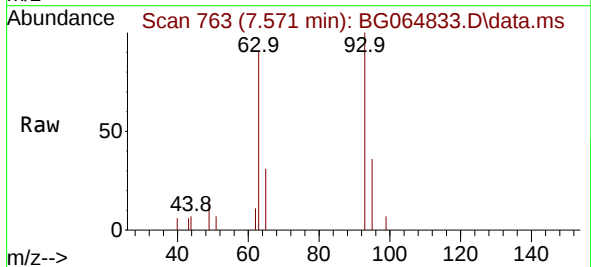
Instrument :
BNA_G
ClientSampleId :
LOQ-SOIL-02-QT4-2025

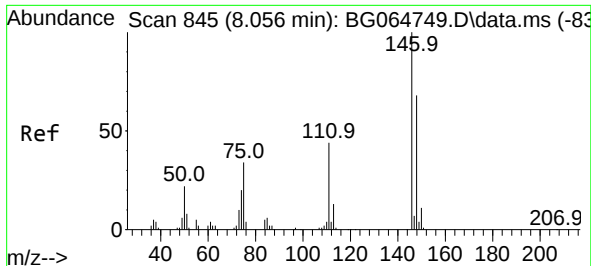
Tgt Ion: 94 Resp: 6655
Ion Ratio Lower Upper
94 100
65 43.3 17.0 57.0
66 79.9 29.8 69.8#



#11
bis(2-Chloroethyl)ether
Concen: 2.116 ng
RT: 7.571 min Scan# 763
Delta R.T. -0.003 min
Lab File: BG064833.D
Acq: 20 Nov 2025 14:19

Tgt Ion: 93 Resp: 4795
Ion Ratio Lower Upper
93 100
63 90.5 81.8 121.8
95 35.8 10.3 50.3





#12

1,3-Dichlorobenzene

Concen: 2.166 ng

RT: 8.047 min Scan# 84

Delta R.T. -0.009 min

Lab File: BG064833.D

Acq: 20 Nov 2025 14:19

Instrument :

BNA_G

ClientSampleId :

LOQ-SOIL-02-QT4-2025

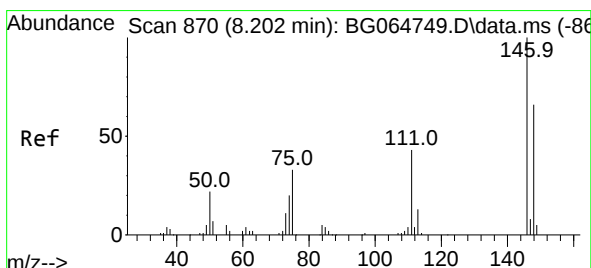
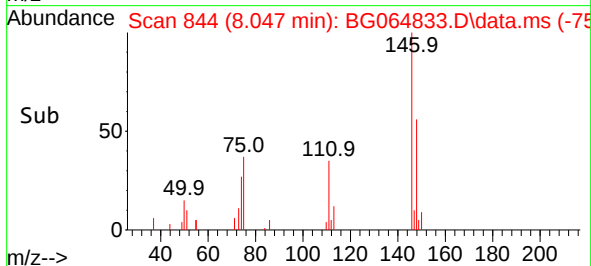
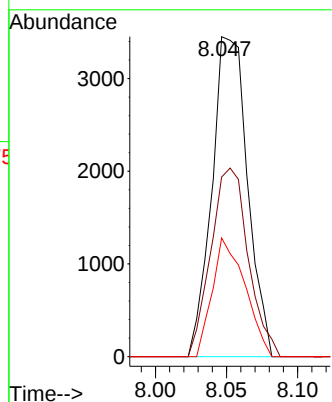
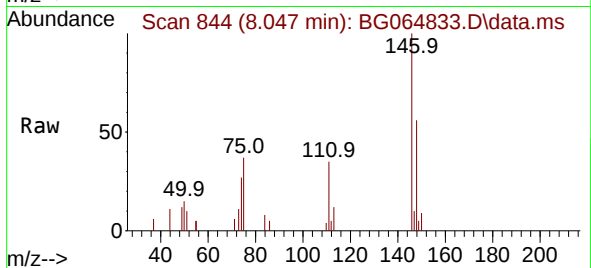
Tgt Ion:146 Resp: 6022

Ion Ratio Lower Upper

146 100

148 56.1 54.6 82.0

75 37.1 27.6 41.4



#13

1,4-Dichlorobenzene

Concen: 2.121 ng

RT: 8.199 min Scan# 870

Delta R.T. -0.003 min

Lab File: BG064833.D

Acq: 20 Nov 2025 14:19

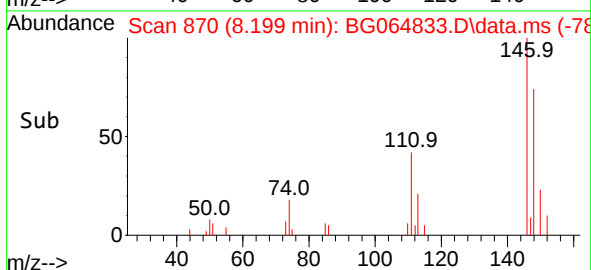
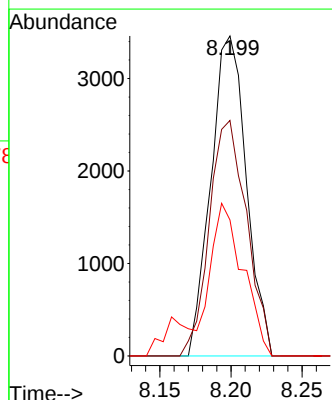
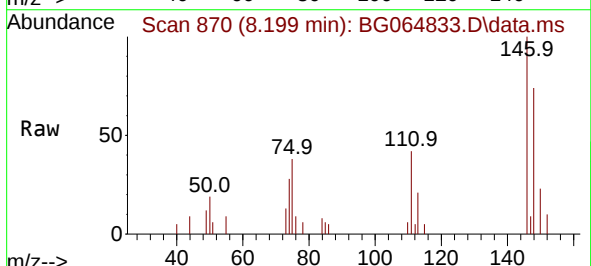
Tgt Ion:146 Resp: 6006

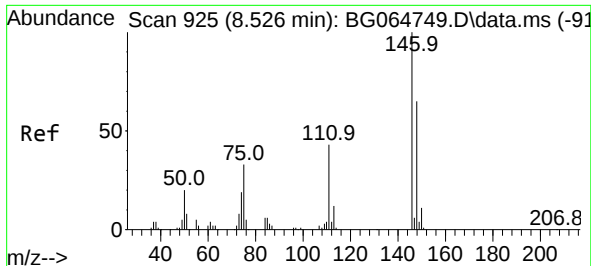
Ion Ratio Lower Upper

146 100

148 73.6 53.1 79.7

111 42.5 34.1 51.1

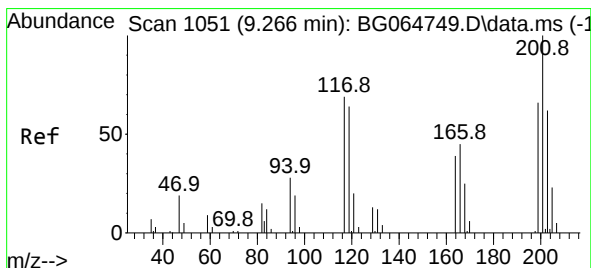
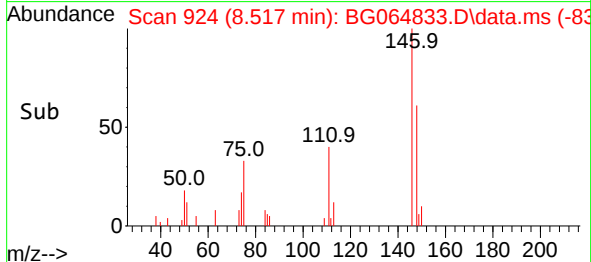
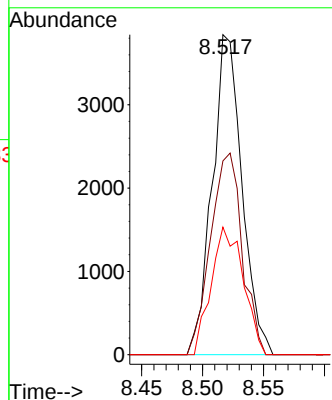
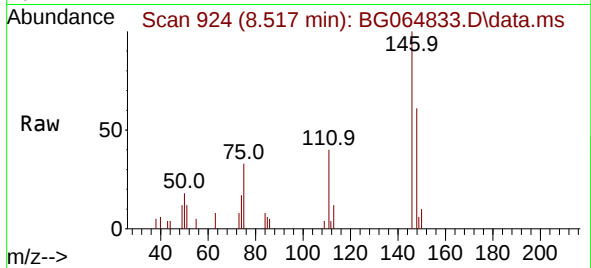




#14
1,2-Dichlorobenzene
Concen: 2.375 ng
RT: 8.517 min Scan# 91
Delta R.T. -0.009 min
Lab File: BG064833.D
Acq: 20 Nov 2025 14:19

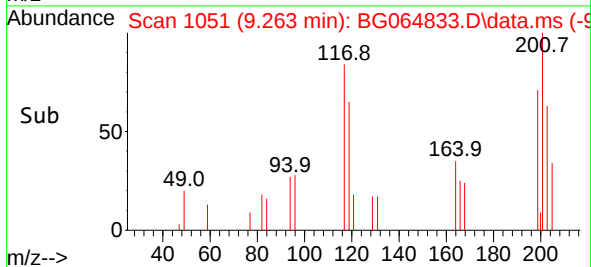
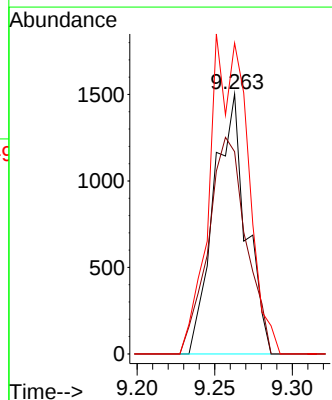
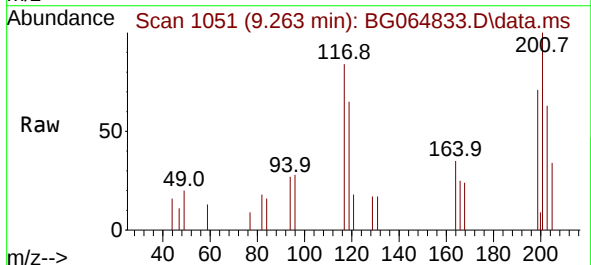
Instrument :
BNA_G
ClientSampleId :
LOQ-SOIL-02-QT4-2025

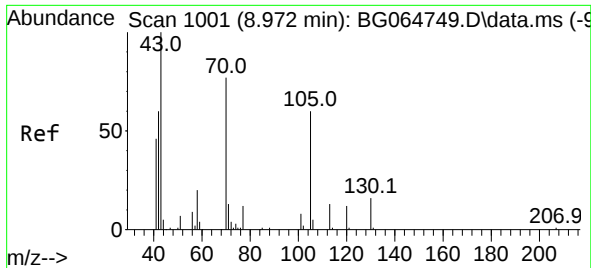
Tgt Ion:146 Resp: 6521
Ion Ratio Lower Upper
146 100
148 60.5 52.0 78.0
111 44.3 34.7 52.1



#18
Hexachloroethane
Concen: 2.023 ng
RT: 9.263 min Scan# 1051
Delta R.T. -0.003 min
Lab File: BG064833.D
Acq: 20 Nov 2025 14:19

Tgt Ion:117 Resp: 2169
Ion Ratio Lower Upper
117 100
119 77.8 74.4 111.6
201 119.6 116.5 174.7

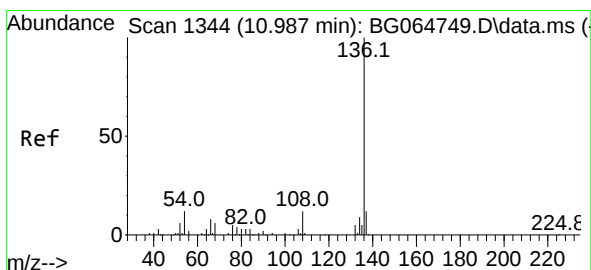
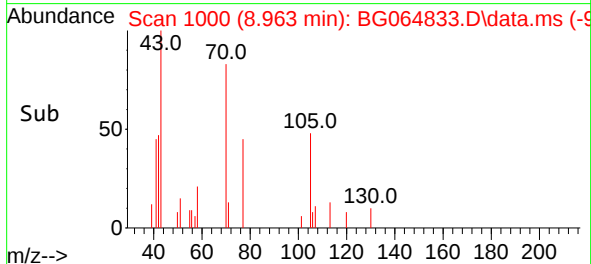
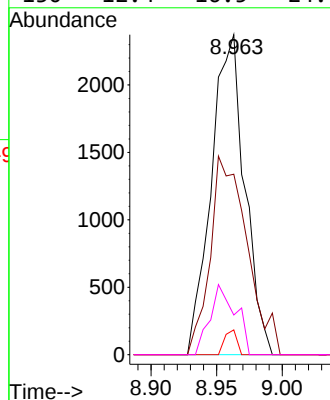
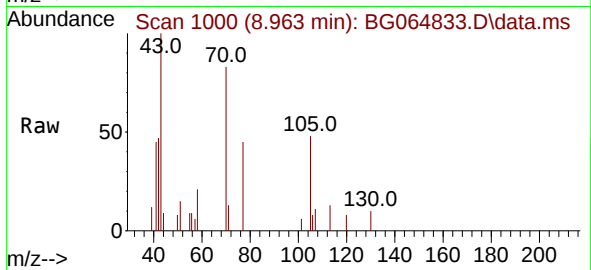




#19
n-Nitroso-di-n-propylamine
Concen: 2.121 ng
RT: 8.963 min Scan# 1000
Delta R.T. -0.009 min
Lab File: BG064833.D
Acq: 20 Nov 2025 14:19

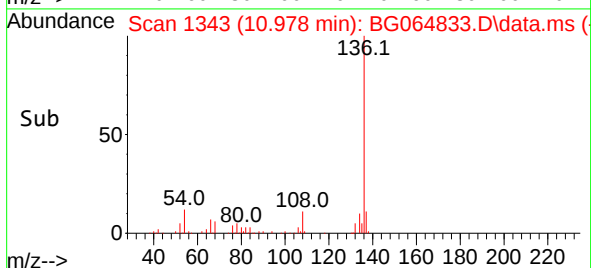
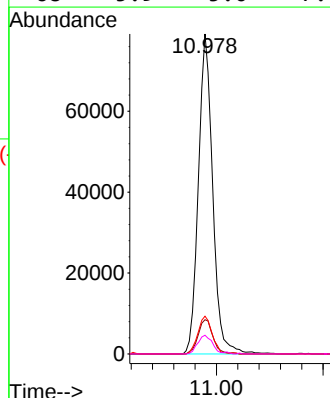
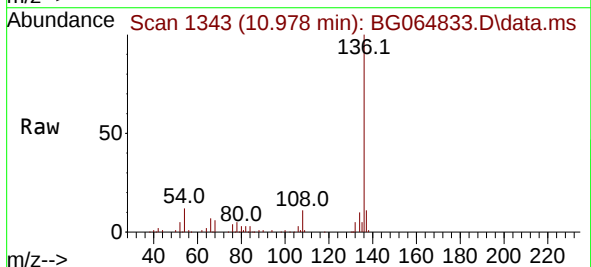
Instrument :
BNA_G
ClientSampleId :
LOQ-SOIL-02-QT4-2025

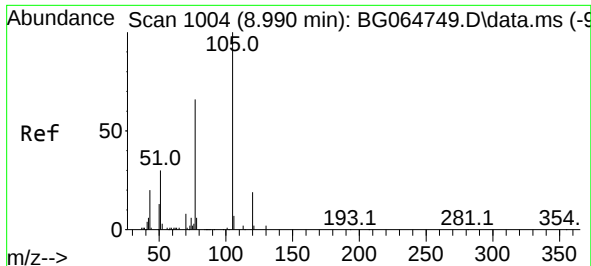
Tgt Ion: 70	Resp: 4198
Ion Ratio	Lower Upper
70 100	
42 56.4	62.6 93.8#
101 7.8	8.0 12.0#
130 12.4	16.5 24.7#



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.978 min Scan# 1343
Delta R.T. -0.009 min
Lab File: BG064833.D
Acq: 20 Nov 2025 14:19

Tgt	Ion:136	Resp:	147458
Ion	Ratio	Lower	Upper
136	100		
137	10.7	9.3	13.9
54	11.8	9.3	13.9
68	5.9	5.0	7.6

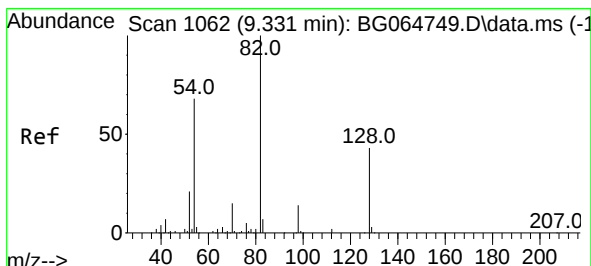
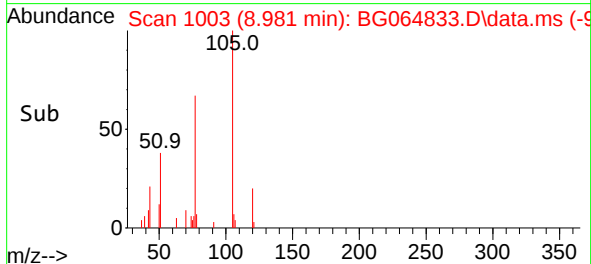
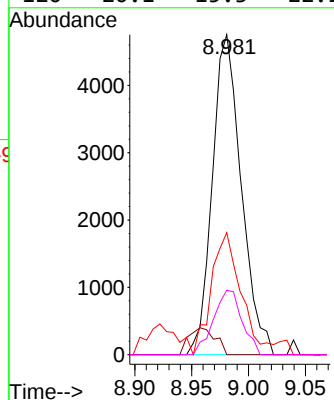
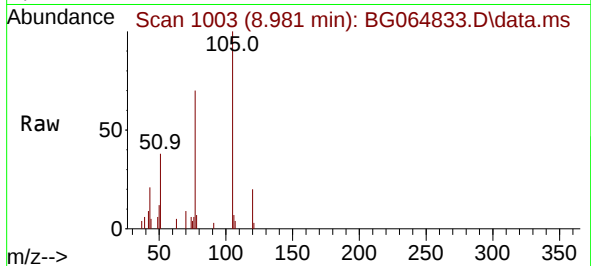




#22
Acetophenone
Concen: 2.090 ng
RT: 8.981 min Scan# 1003
Delta R.T. -0.009 min
Lab File: BG064833.D
Acq: 20 Nov 2025 14:19

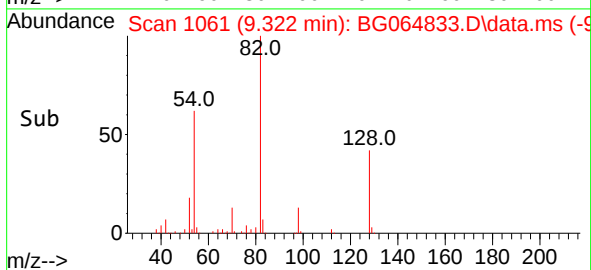
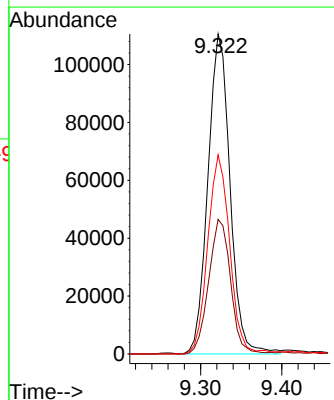
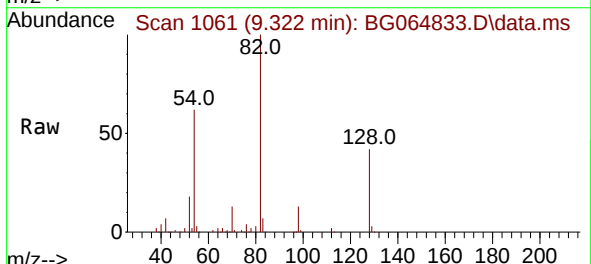
Instrument :
BNA_G
ClientSampleId :
LOQ-SOIL-02-QT4-2025

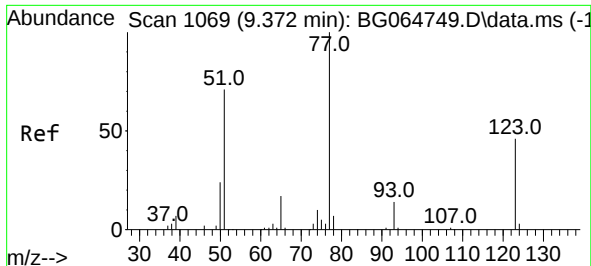
Tgt Ion:105 Resp: 8398
Ion Ratio Lower Upper
105 100
71 0.0 1.3 1.9#
51 38.1 27.9 41.9
120 20.1 15.3 22.9



#23
Nitrobenzene-d5
Concen: 70.218 ng
RT: 9.322 min Scan# 1061
Delta R.T. -0.009 min
Lab File: BG064833.D
Acq: 20 Nov 2025 14:19

Tgt Ion: 82 Resp: 209419
Ion Ratio Lower Upper
82 100
128 42.0 34.1 51.1
54 62.2 54.3 81.5

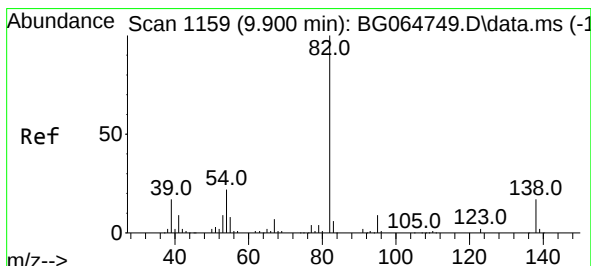
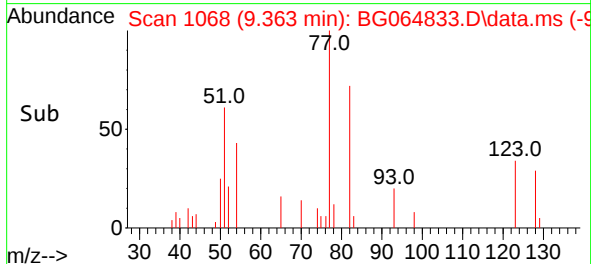
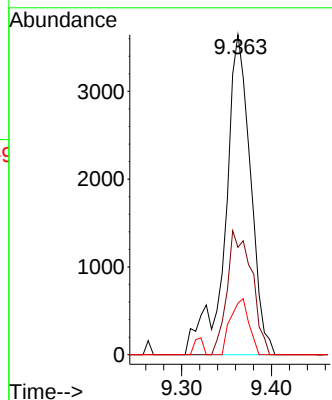
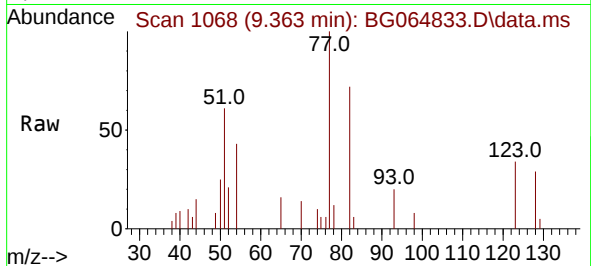




#24
Nitrobenzene
Concen: 2.354 ng
RT: 9.363 min Scan# 1068
Delta R.T. -0.009 min
Lab File: BG064833.D
Acq: 20 Nov 2025 14:19

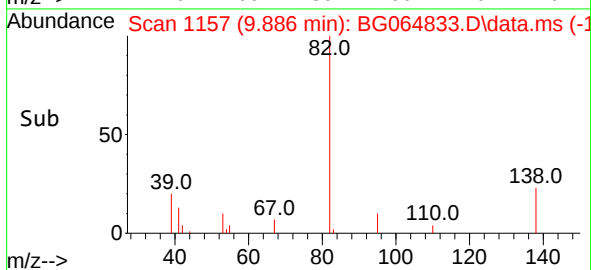
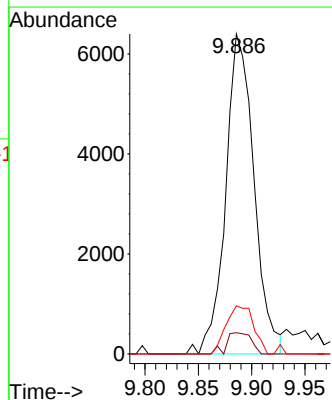
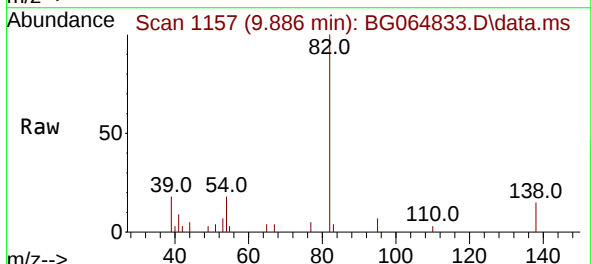
Instrument :
BNA_G
ClientSampleId :
LOQ-SOIL-02-QT4-2025

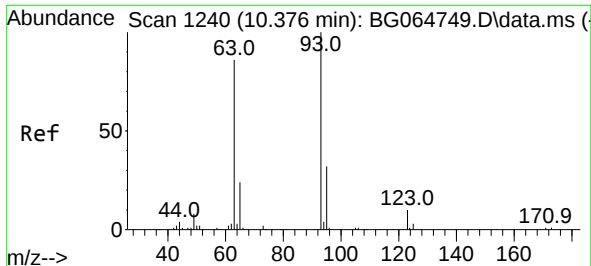
Tgt Ion: 77 Resp: 7094
Ion Ratio Lower Upper
77 100
123 33.5 36.5 54.7#
65 16.1 13.5 20.3



#25
Isophorone
Concen: 2.085 ng
RT: 9.886 min Scan# 1157
Delta R.T. -0.015 min
Lab File: BG064833.D
Acq: 20 Nov 2025 14:19

Tgt Ion: 82 Resp: 11843
Ion Ratio Lower Upper
82 100
95 6.7 6.9 10.3#
138 15.0 13.9 20.9

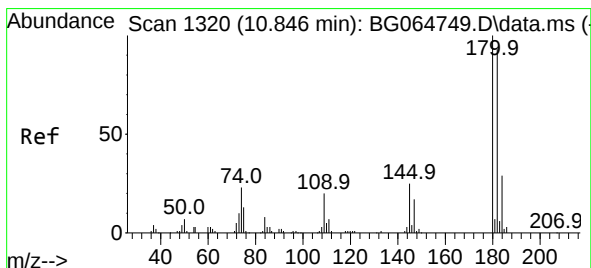
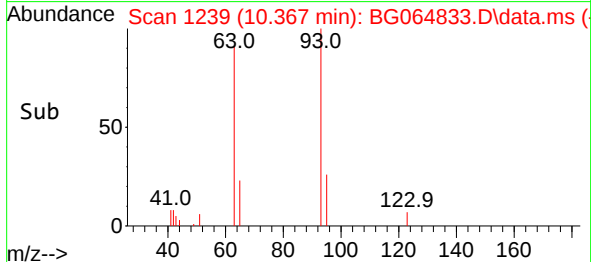
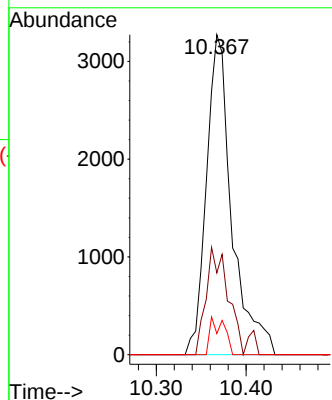
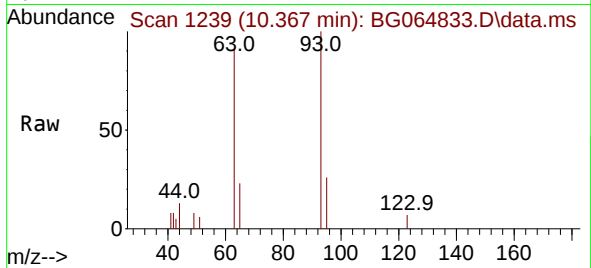




#28
 bis(2-Chloroethoxy)methane
 Concen: 2.056 ng
 RT: 10.367 min Scan# 11
 Delta R.T. -0.009 min
 Lab File: BG064833.D
 Acq: 20 Nov 2025 14:19

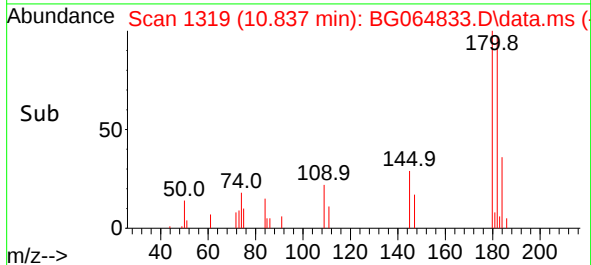
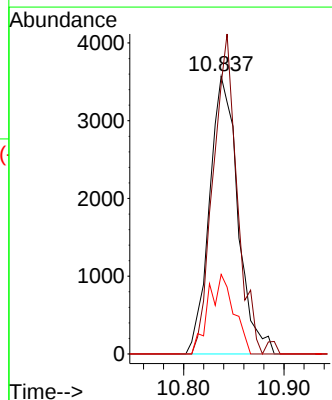
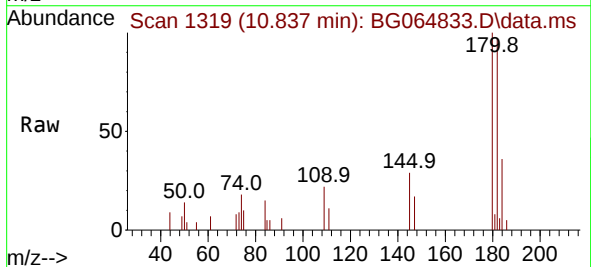
Instrument :
 BNA_G
 ClientSampleId :
 LOQ-SOIL-02-QT4-2025

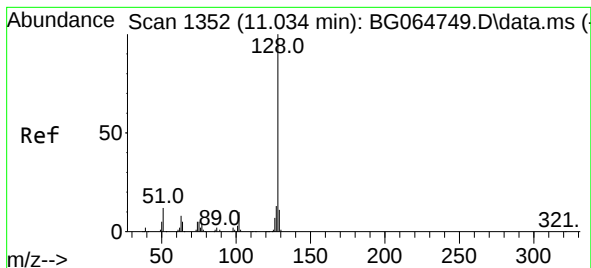
Tgt Ion: 93 Resp: 6411
 Ion Ratio Lower Upper
 93 100
 95 25.6 25.4 38.2
 123 6.6 8.1 12.1#



#30
 1,2,4-Trichlorobenzene
 Concen: 2.253 ng
 RT: 10.837 min Scan# 1319
 Delta R.T. -0.009 min
 Lab File: BG064833.D
 Acq: 20 Nov 2025 14:19

Tgt Ion:180 Resp: 7032
 Ion Ratio Lower Upper
 180 100
 182 97.0 74.2 111.4
 145 28.6 20.0 30.0





#31

Naphthalene

Concen: 2.206 ng

RT: 11.031 min Scan# 11

Delta R.T. -0.003 min

Lab File: BG064833.D

Acq: 20 Nov 2025 14:19

Instrument :

BNA_G

ClientSampleId :

LOQ-SOIL-02-QT4-2025

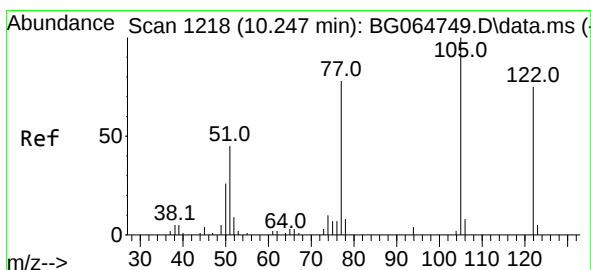
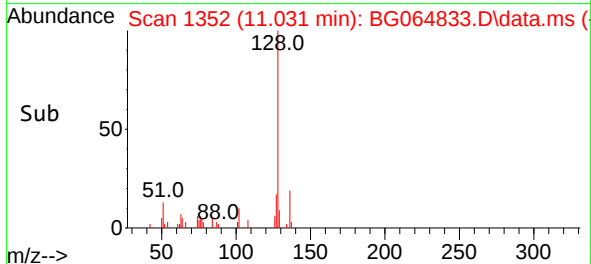
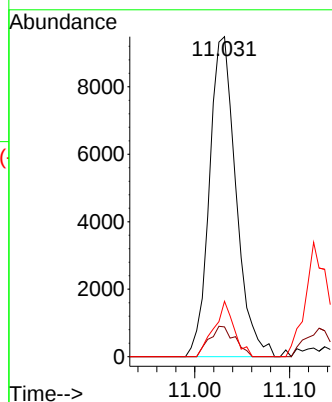
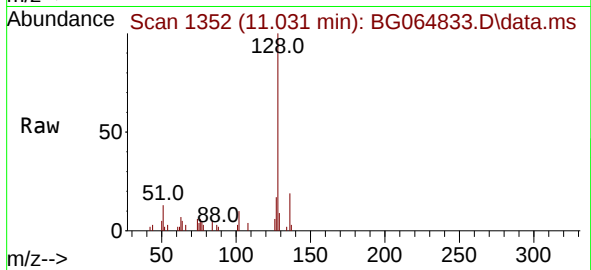
Tgt Ion:128 Resp: 18444

Ion Ratio Lower Upper

128 100

129 9.3 8.6 12.8

127 17.3 10.6 16.0#



#32

Benzoic acid

Concen: 6.184 ng

RT: 10.273 min Scan# 1223

Delta R.T. 0.026 min

Lab File: BG064833.D

Acq: 20 Nov 2025 14:19

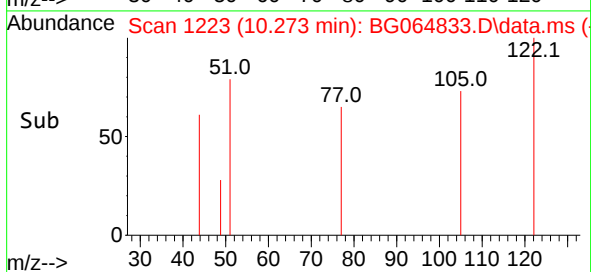
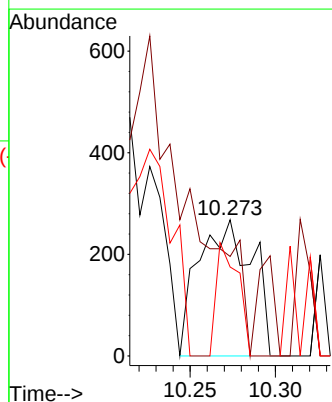
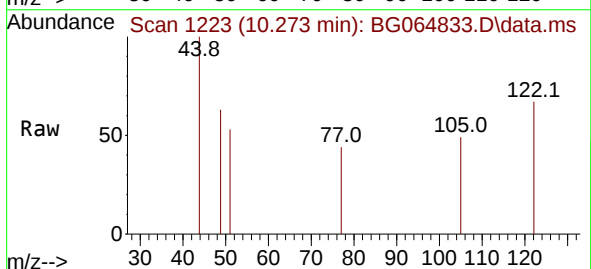
Tgt Ion:122 Resp: 585

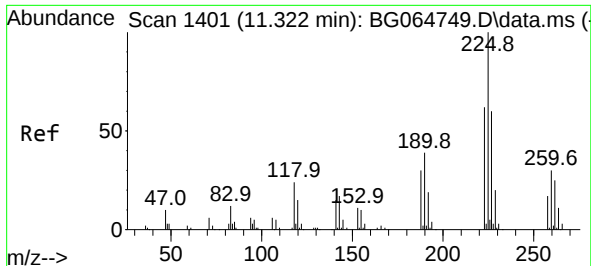
Ion Ratio Lower Upper

122 100

105 73.1 107.6 147.6#

77 65.3 82.5 122.5#

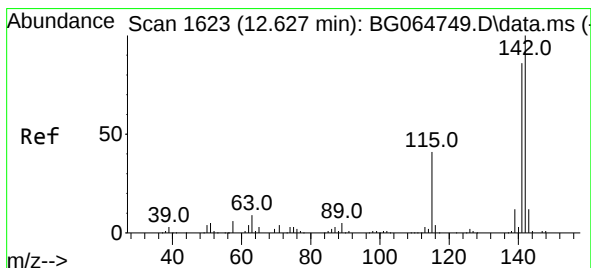
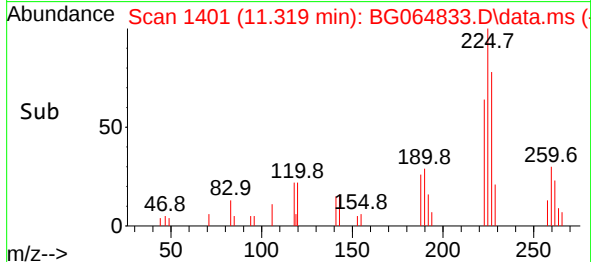
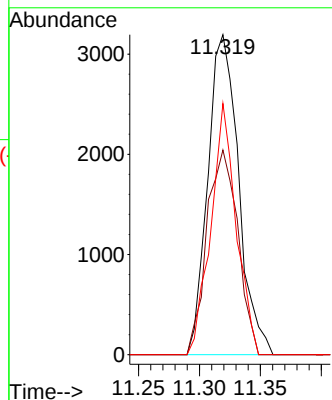
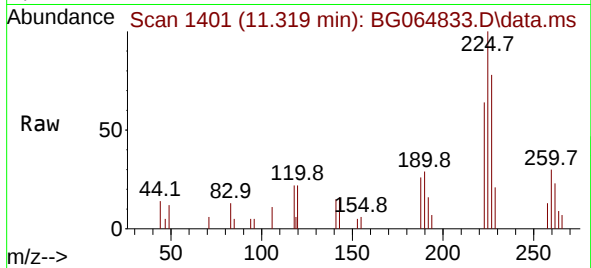




#34
Hexachlorobutadiene
Concen: 2.091 ng
RT: 11.319 min Scan# 1401
Delta R.T. -0.003 min
Lab File: BG064833.D
Acq: 20 Nov 2025 14:19

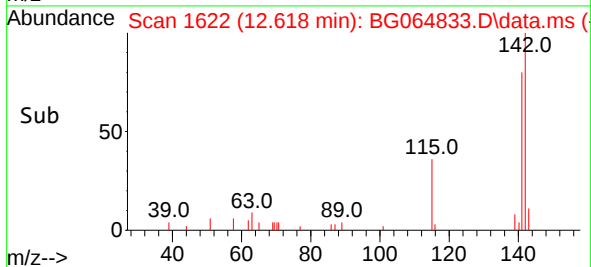
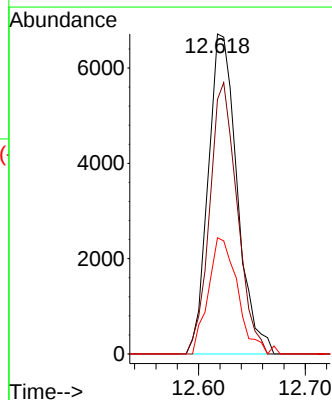
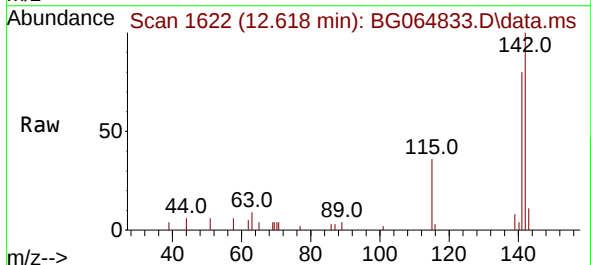
Instrument :
BNA_G
ClientSampleId :
LOQ-SOIL-02-QT4-2025

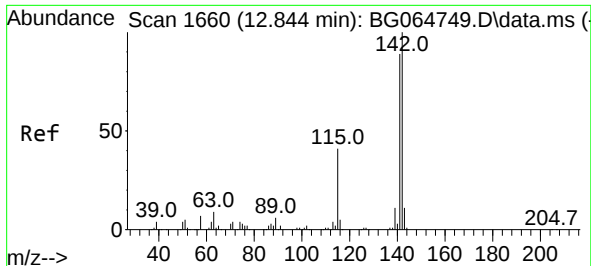
Tgt Ion:225 Resp: 5601
Ion Ratio Lower Upper
225 100
223 63.9 49.9 74.9
227 78.5 50.6 75.8#



#37
2-Methylnaphthalene
Concen: 2.026 ng
RT: 12.618 min Scan# 1622
Delta R.T. -0.009 min
Lab File: BG064833.D
Acq: 20 Nov 2025 14:19

Tgt Ion:142 Resp: 12674
Ion Ratio Lower Upper
142 100
141 79.6 69.1 103.7
115 36.3 32.9 49.3

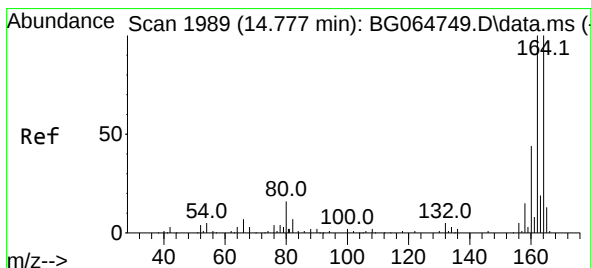
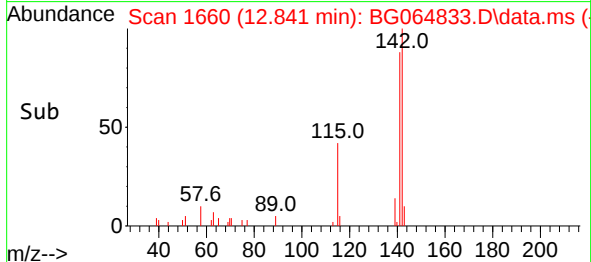
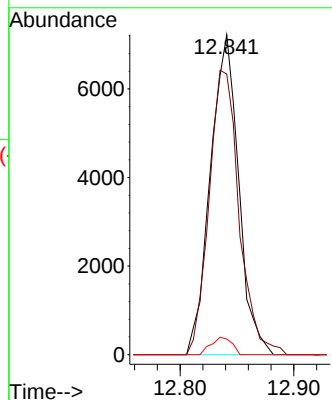
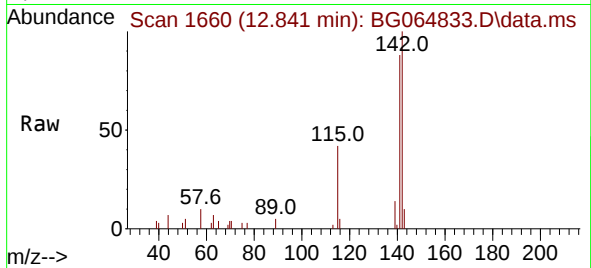




#38
1-Methylnaphthalene
Concen: 2.008 ng
RT: 12.841 min Scan# 1
Delta R.T. -0.003 min
Lab File: BG064833.D
Acq: 20 Nov 2025 14:19

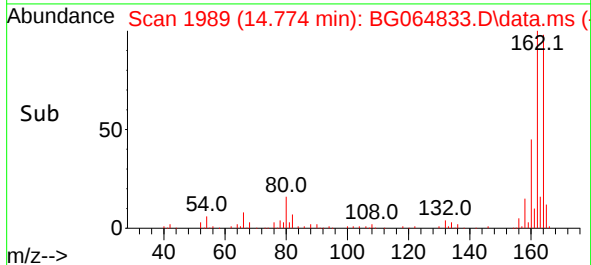
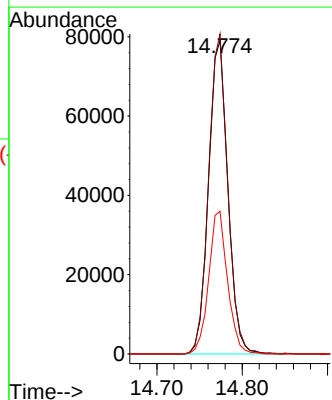
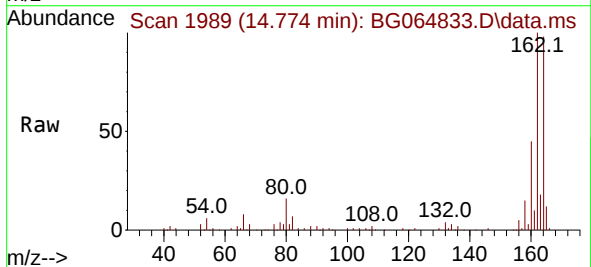
Instrument :
BNA_G
ClientSampleId :
LOQ-SOIL-02-QT4-2025

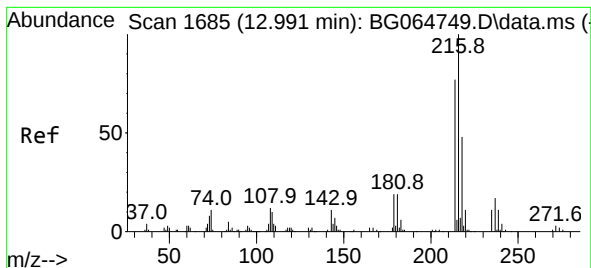
Tgt Ion:142 Resp: 12480
Ion Ratio Lower Upper
142 100
141 87.7 70.8 106.2
116 4.9 3.7 5.5



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.774 min Scan# 1989
Delta R.T. -0.003 min
Lab File: BG064833.D
Acq: 20 Nov 2025 14:19

Tgt Ion:164 Resp: 124242
Ion Ratio Lower Upper
164 100
162 102.1 79.8 119.6
160 45.5 34.9 52.3





#40

1,2,4,5-Tetrachlorobenzene

Concen: 2.146 ng

RT: 12.982 min Scan# 1

Delta R.T. -0.009 min

Lab File: BG064833.D

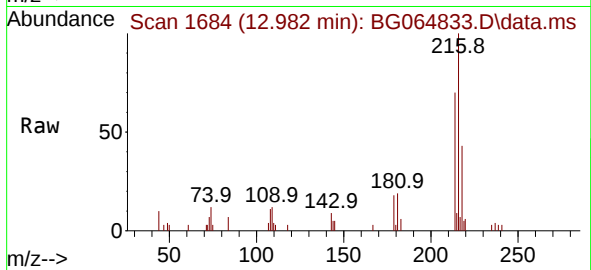
Acq: 20 Nov 2025 14:19

Instrument :

BNA_G

ClientSampleId :

LOQ-SOIL-02-QT4-2025



Tgt Ion:216 Resp: 10376

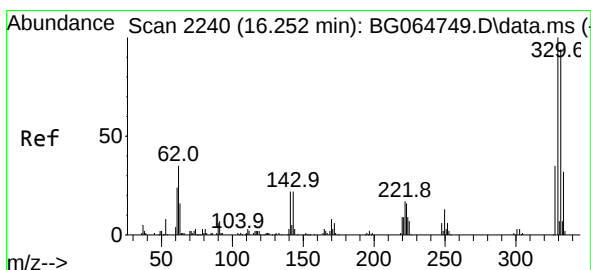
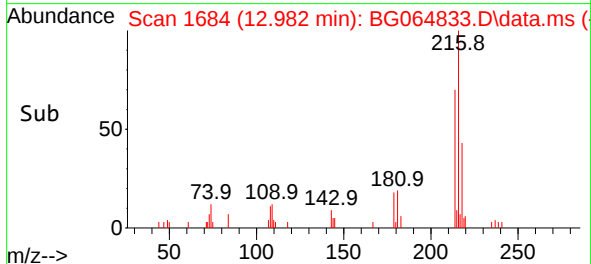
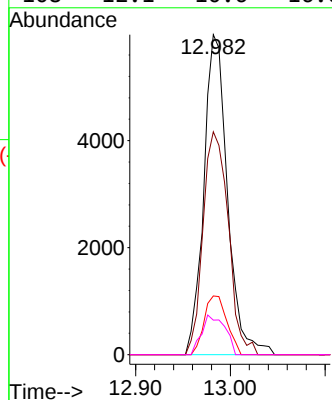
Ion Ratio Lower Upper

216 100

214 74.2 60.5 90.7

179 17.6 14.7 22.1

108 12.1 10.6 16.0



#42

2,4,6-Tribromophenol

Concen: 122.788 ng

RT: 16.249 min Scan# 2240

Delta R.T. -0.003 min

Lab File: BG064833.D

Acq: 20 Nov 2025 14:19

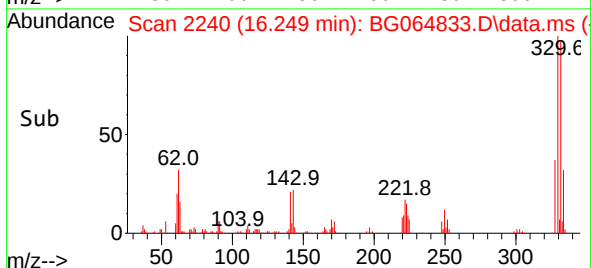
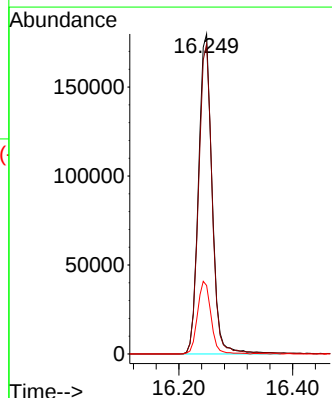
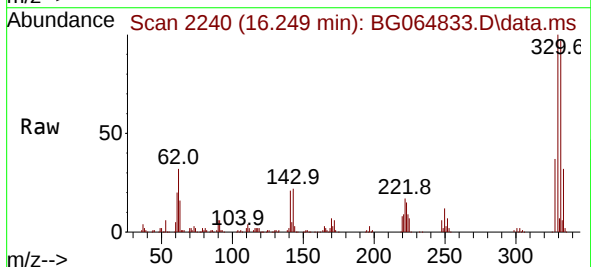
Tgt Ion:330 Resp: 297529

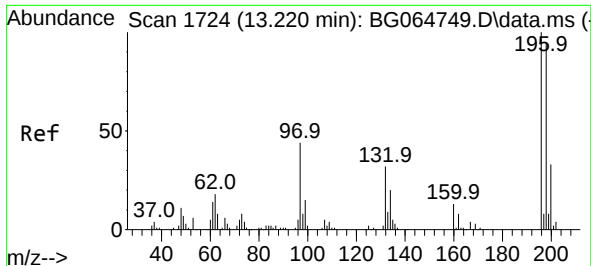
Ion Ratio Lower Upper

330 100

332 96.4 77.0 115.6

141 22.6 18.2 27.2

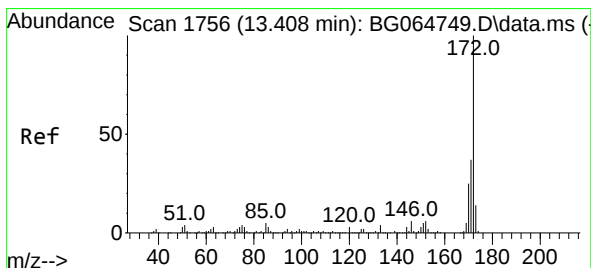
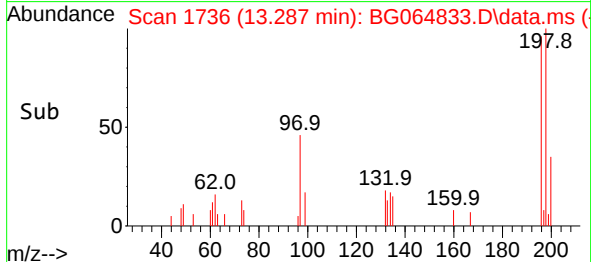
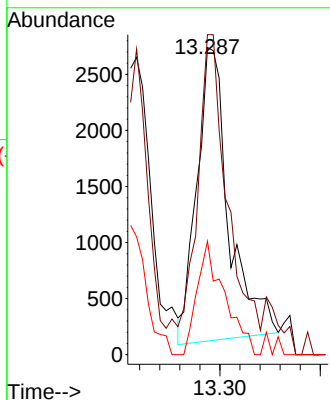
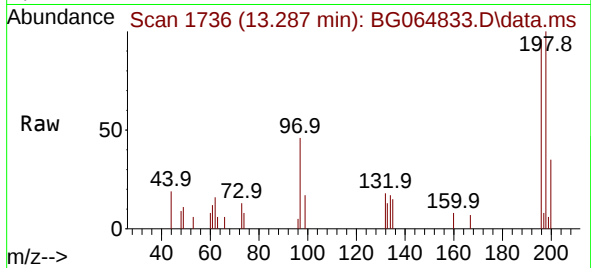




#43
2,4,6-Trichlorophenol
Concen: 2.054 ng
RT: 13.287 min Scan# 1
Delta R.T. 0.067 min
Lab File: BG064833.D
Acq: 20 Nov 2025 14:19

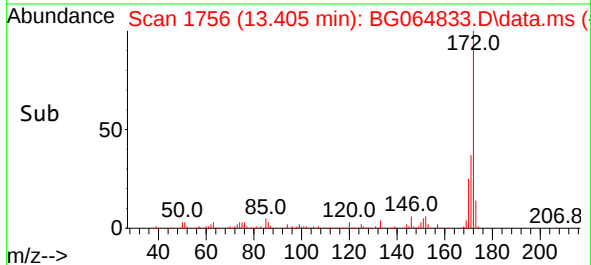
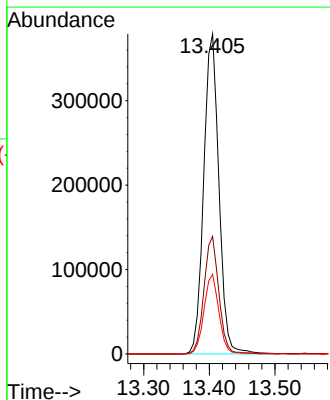
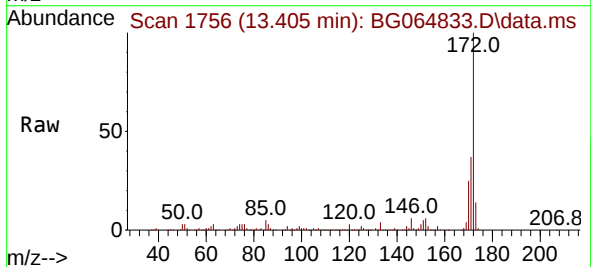
Instrument :
BNA_G
ClientSampleId :
LOQ-SOIL-02-QT4-2025

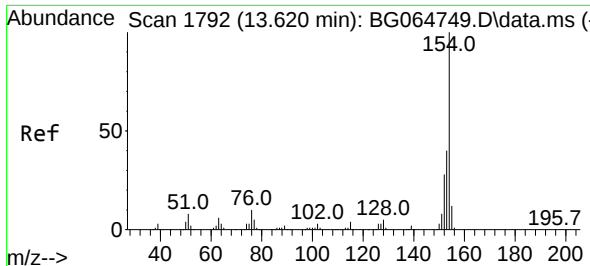
Tgt Ion:196 Resp: 5830
Ion Ratio Lower Upper
196 100
198 104.2 75.3 112.9
200 36.9 26.2 39.2



#45
2-Fluorobiphenyl
Concen: 68.696 ng
RT: 13.405 min Scan# 1756
Delta R.T. -0.003 min
Lab File: BG064833.D
Acq: 20 Nov 2025 14:19

Tgt Ion:172 Resp: 611670
Ion Ratio Lower Upper
172 100
171 36.8 29.9 44.9
170 24.9 19.8 29.6

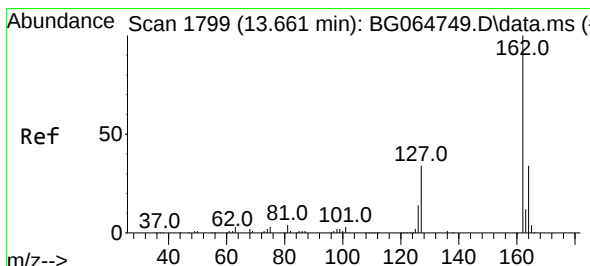
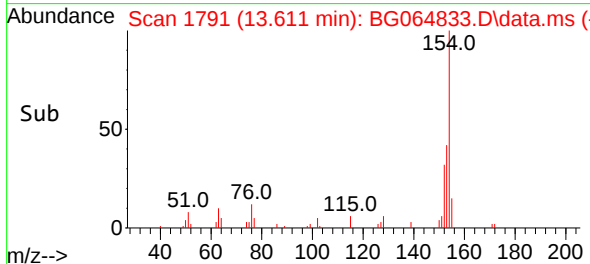
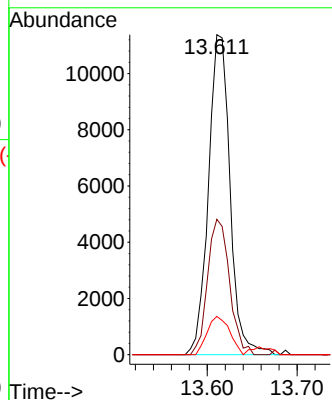
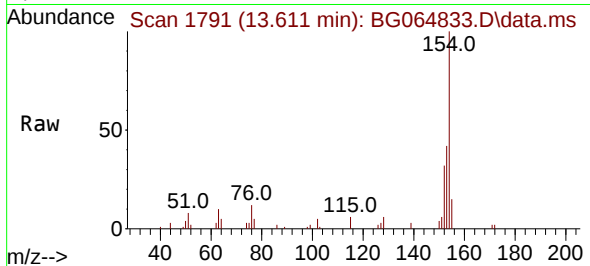




#46
1,1'-Biphenyl
Concen: 2.129 ng
RT: 13.611 min Scan# 1791
Delta R.T. -0.009 min
Lab File: BG064833.D
Acq: 20 Nov 2025 14:19

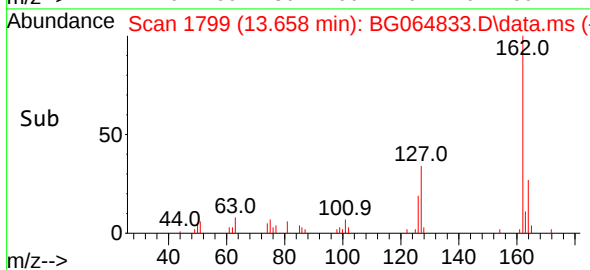
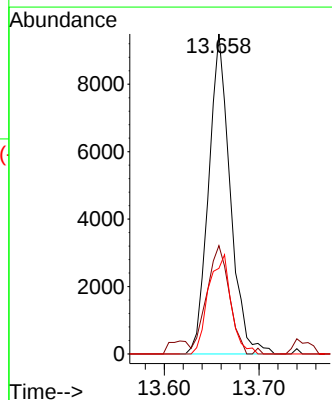
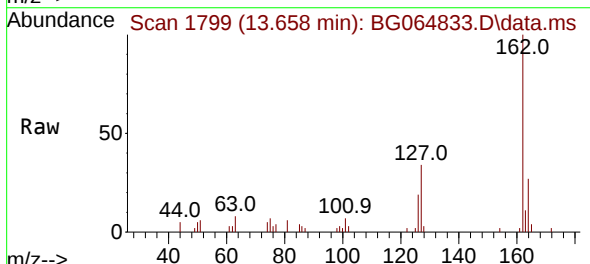
Instrument :
BNA_G
ClientSampleId :
LOQ-SOIL-02-QT4-2025

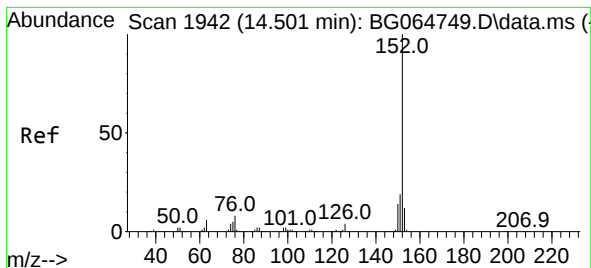
Tgt Ion:154 Resp: 18998
Ion Ratio Lower Upper
154 100
153 42.3 19.8 59.8
76 12.0 0.0 30.0



#47
2-Chloronaphthalene
Concen: 2.125 ng
RT: 13.658 min Scan# 1799
Delta R.T. -0.003 min
Lab File: BG064833.D
Acq: 20 Nov 2025 14:19

Tgt Ion:162 Resp: 14936
Ion Ratio Lower Upper
162 100
127 33.8 30.3 45.5
164 26.8 26.8 40.2#





#49

Acenaphthylene

Concen: 2.068 ng

RT: 14.498 min Scan# 1942

Delta R.T. -0.003 min

Lab File: BG064833.D

Acq: 20 Nov 2025 14:19

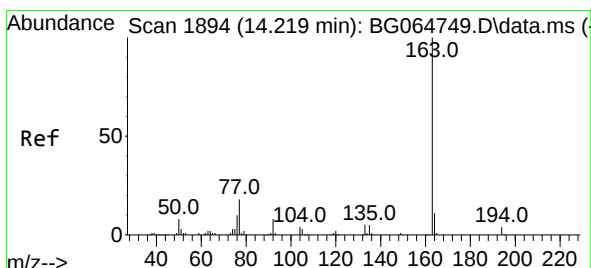
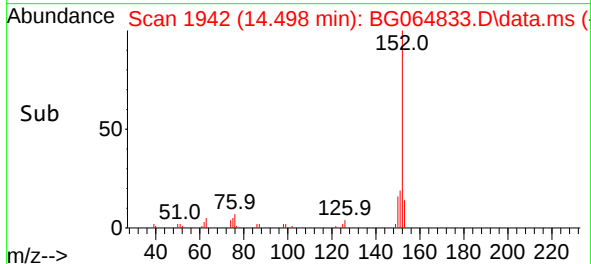
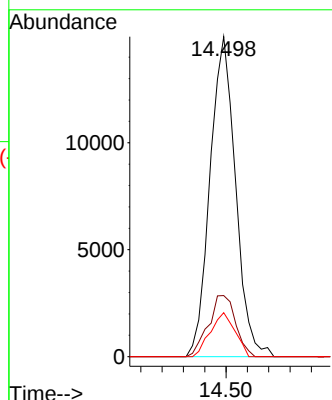
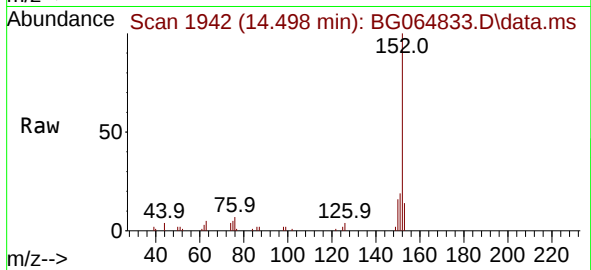
Instrument :

BNA_G

ClientSampleId :

LOQ-SOIL-02-QT4-2025

Tgt Ion:152	Resp:	24840
Ion Ratio	Lower	Upper
152	100	
151	19.1	15.0 22.4
153	13.7	9.9 14.9



#50

Dimethylphthalate

Concen: 2.081 ng

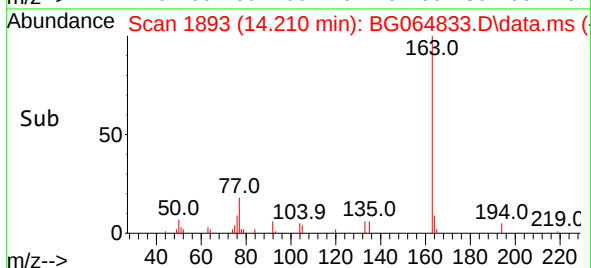
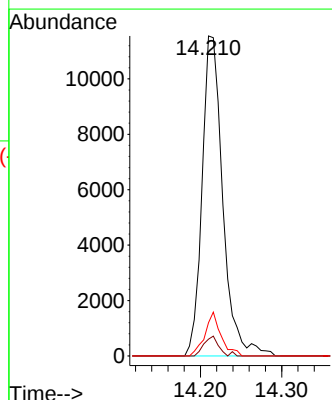
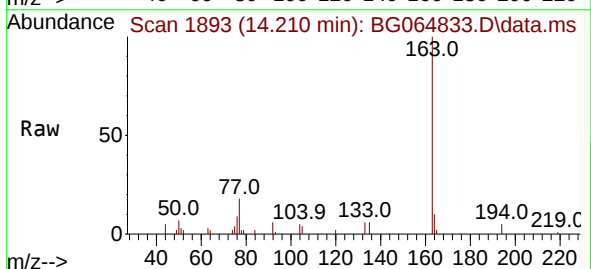
RT: 14.210 min Scan# 1893

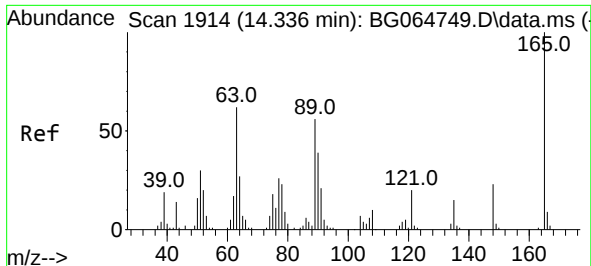
Delta R.T. -0.009 min

Lab File: BG064833.D

Acq: 20 Nov 2025 14:19

Tgt Ion:163	Resp:	20428
Ion Ratio	Lower	Upper
163	100	
194	5.3	3.1 4.7#
164	10.4	8.6 12.8

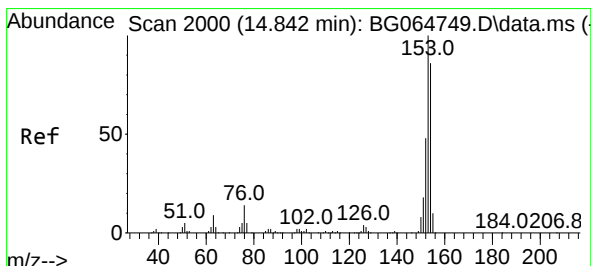
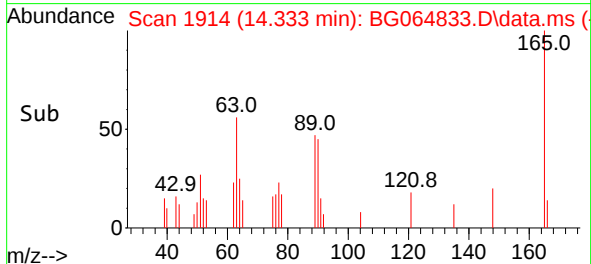
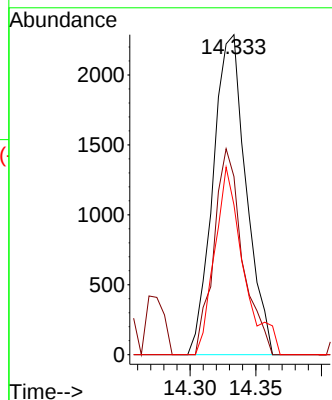
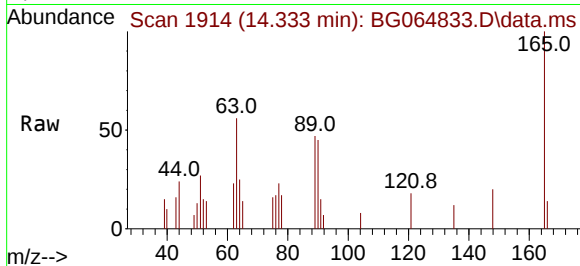




#51
2,6-Dinitrotoluene
Concen: 2.123 ng
RT: 14.333 min Scan# 1914
Delta R.T. -0.003 min
Lab File: BG064833.D
Acq: 20 Nov 2025 14:19

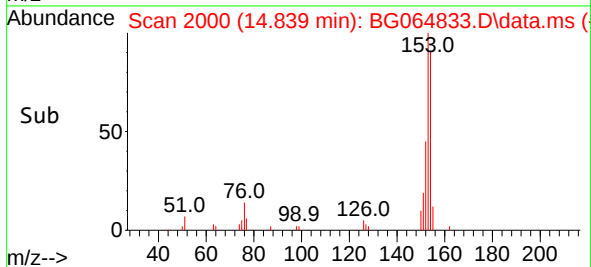
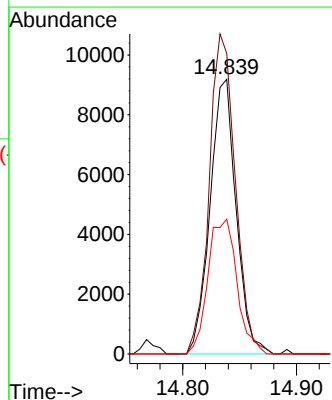
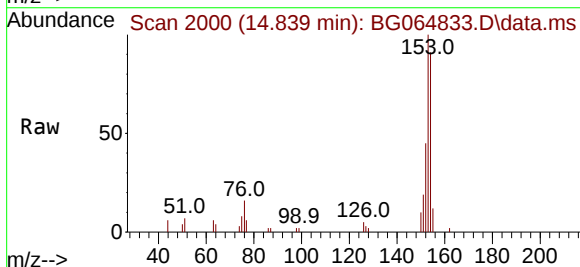
Instrument :
BNA_G
ClientSampleId :
LOQ-SOIL-02-QT4-2025

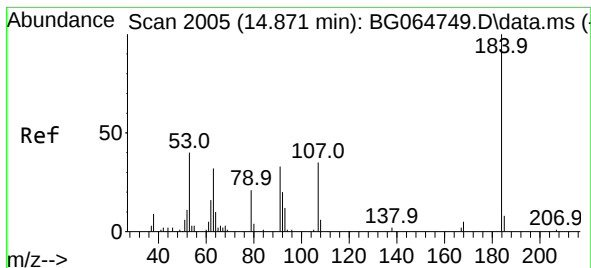
Tgt Ion:	165	Resp:	4009
Ion	Ratio	Lower	Upper
165	100		
63	55.6	49.8	74.8
89	46.8	45.0	67.4



#52
Acenaphthene
Concen: 2.032 ng
RT: 14.839 min Scan# 2000
Delta R.T. -0.003 min
Lab File: BG064833.D
Acq: 20 Nov 2025 14:19

Tgt Ion:	154	Resp:	14630
Ion	Ratio	Lower	Upper
154	100		
153	109.4	93.0	139.4
152	49.1	44.4	66.6

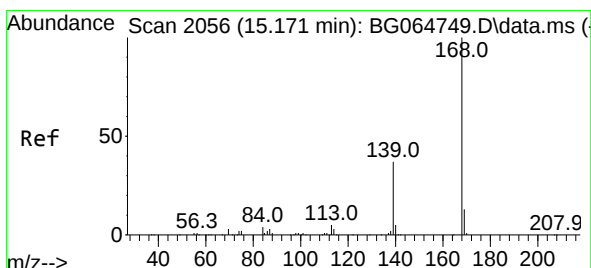
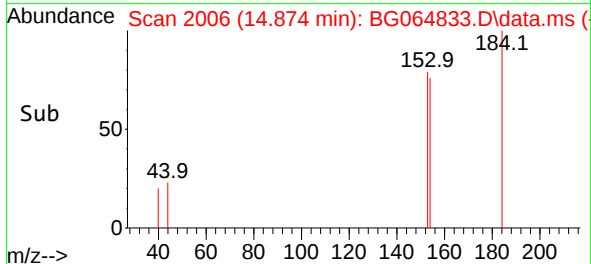
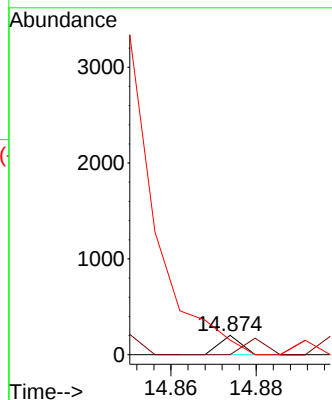
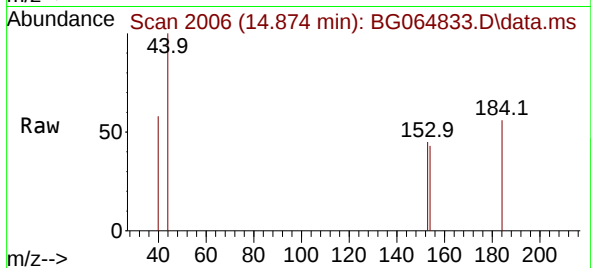




#54
2,4-Dinitrophenol
Concen: 8.633 ng
RT: 14.874 min Scan# 2005
Delta R.T. 0.003 min
Lab File: BG064833.D
Acq: 20 Nov 2025 14:19

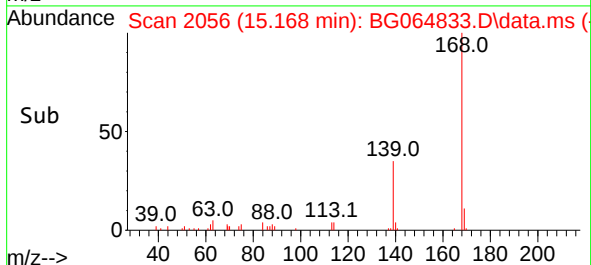
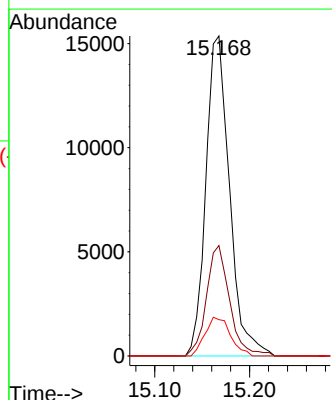
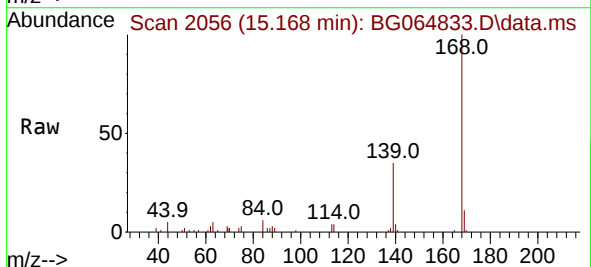
Instrument :
BNA_G
ClientSampleId :
LOQ-SOIL-02-QT4-2025

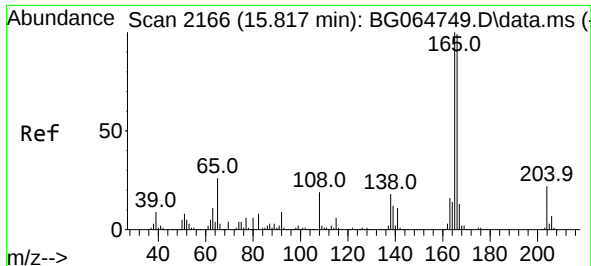
Tgt Ion:184 Resp: 71
Ion Ratio Lower Upper
184 100
63 0.0 45.8 68.6#
154 75.7 52.6 78.8



#55
Dibenzofuran
Concen: 2.233 ng
RT: 15.168 min Scan# 2056
Delta R.T. -0.003 min
Lab File: BG064833.D
Acq: 20 Nov 2025 14:19

Tgt Ion:168 Resp: 26581
Ion Ratio Lower Upper
168 100
139 34.5 29.5 44.3
169 11.4 10.4 15.6

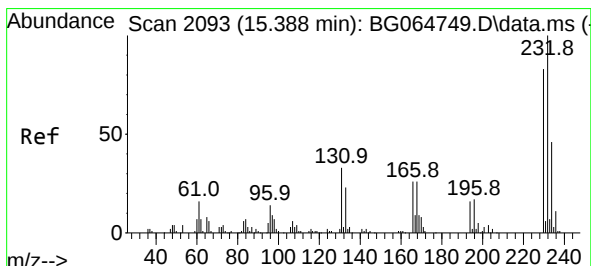
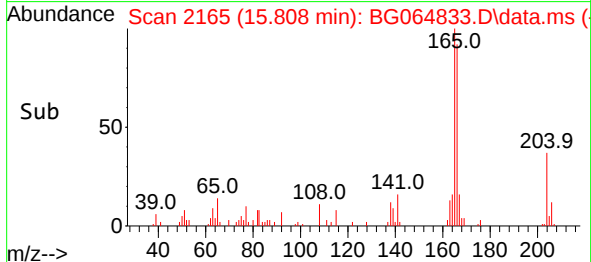
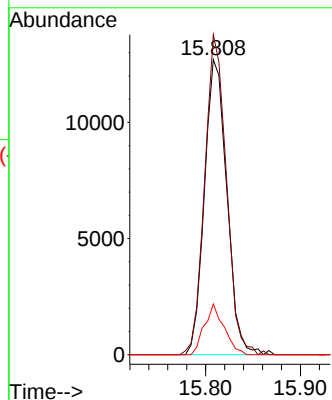
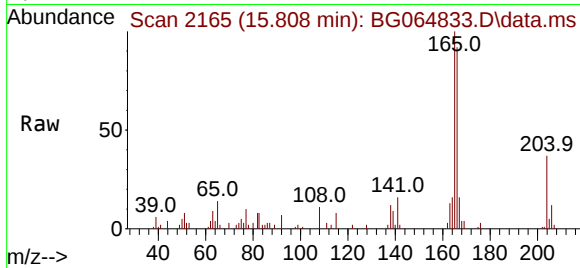




#58
Fluorene
Concen: 2.233 ng
RT: 15.808 min Scan# 2166
Delta R.T. -0.009 min
Lab File: BG064833.D
Acq: 20 Nov 2025 14:19

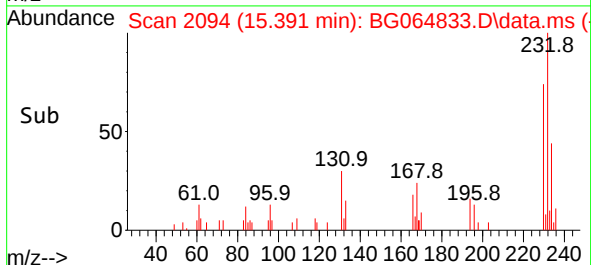
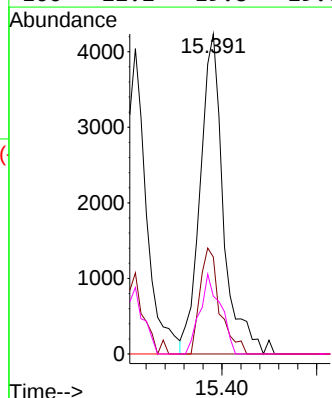
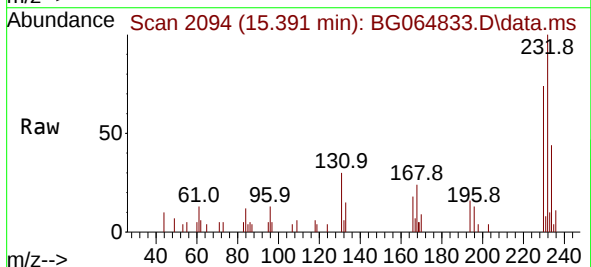
Instrument :
BNA_G
ClientSampleId :
LOQ-SOIL-02-QT4-2025

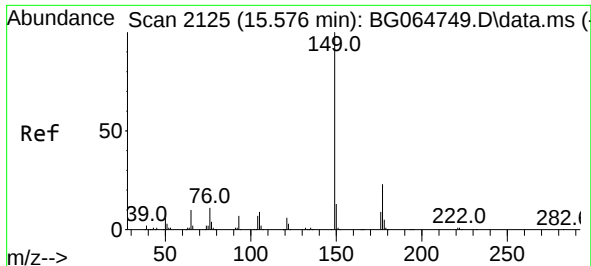
Tgt Ion	Ratio	Lower	Upper
166	100		
165	108.5	80.5	120.7
167	17.2	10.3	15.5



#59
2,3,4,6-Tetrachlorophenol
Concen: 2.304 ng
RT: 15.391 min Scan# 2094
Delta R.T. 0.003 min
Lab File: BG064833.D
Acq: 20 Nov 2025 14:19

Tgt Ion	Ratio	Lower	Upper
232	100		
131	28.3	26.0	39.0
130	0.0	1.6	2.4
166	22.2	19.8	29.6

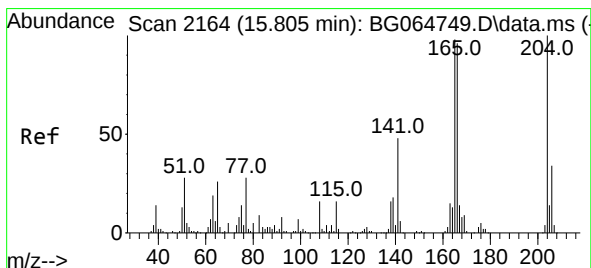
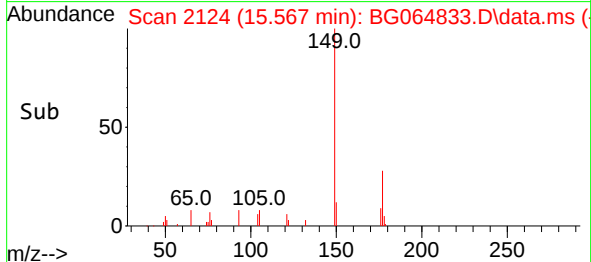
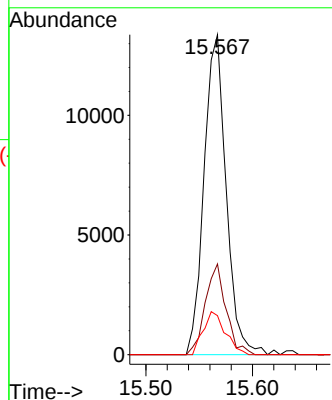
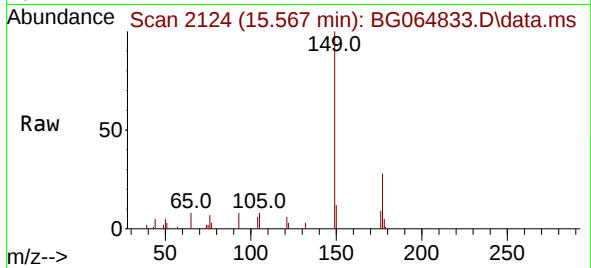




#60
Diethylphthalate
Concen: 2.055 ng
RT: 15.567 min Scan# 2125
Delta R.T. -0.009 min
Lab File: BG064833.D
Acq: 20 Nov 2025 14:19

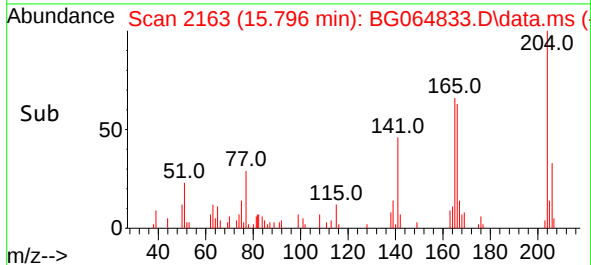
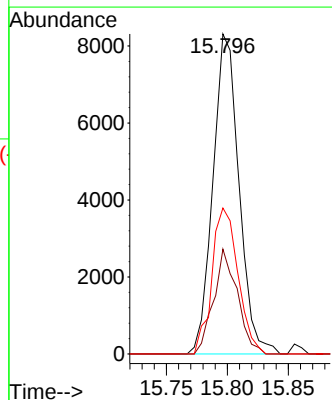
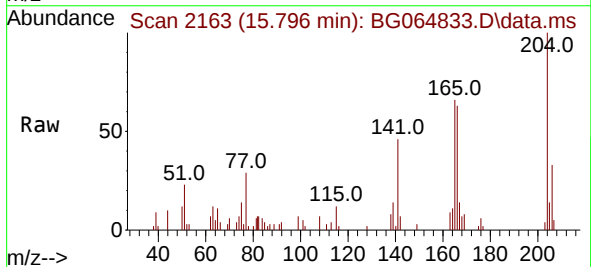
Instrument :
BNA_G
ClientSampleId :
LOQ-SOIL-02-QT4-2025

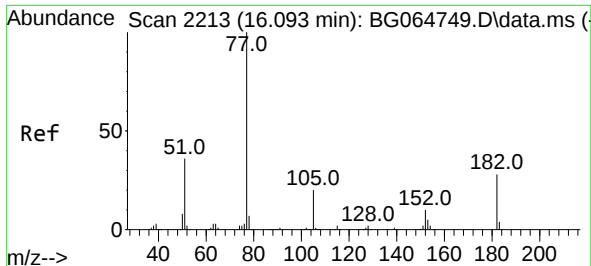
Tgt Ion:149 Resp: 19321
Ion Ratio Lower Upper
149 100
177 28.3 18.4 27.6#
150 12.2 10.1 15.1



#61
4-Chlorophenyl-phenylether
Concen: 2.205 ng
RT: 15.796 min Scan# 2163
Delta R.T. -0.009 min
Lab File: BG064833.D
Acq: 20 Nov 2025 14:19

Tgt Ion:204 Resp: 12355
Ion Ratio Lower Upper
204 100
206 32.8 26.9 40.3
141 45.6 38.1 57.1

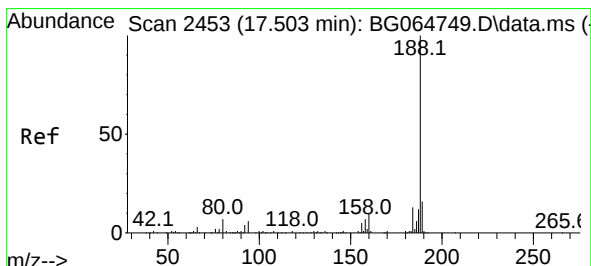
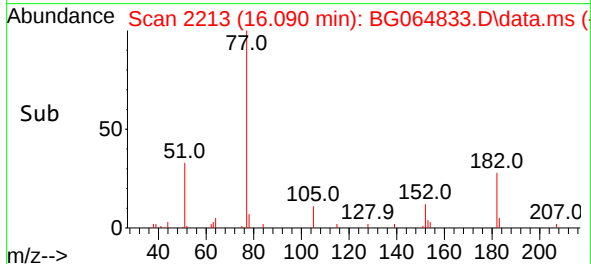
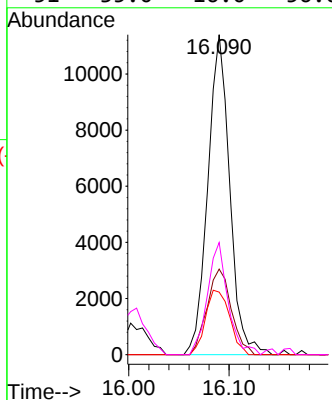
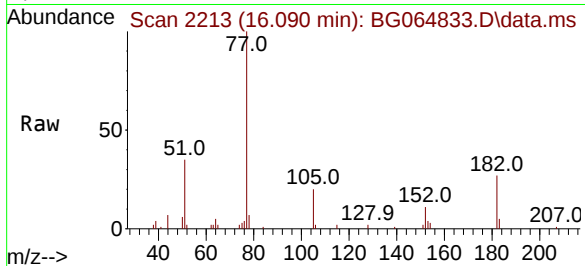




#63
Azobenzene
Concen: 2.210 ng
RT: 16.090 min Scan# 21
Delta R.T. -0.003 min
Lab File: BG064833.D
Acq: 20 Nov 2025 14:19

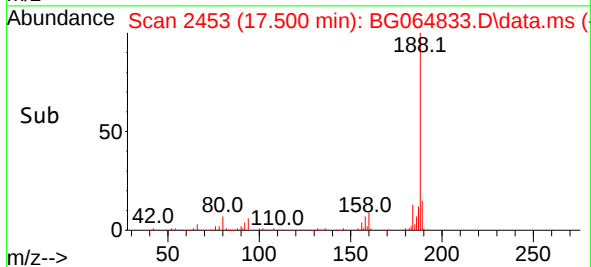
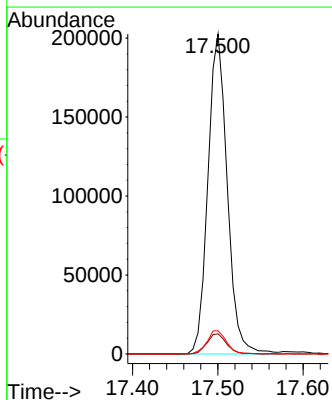
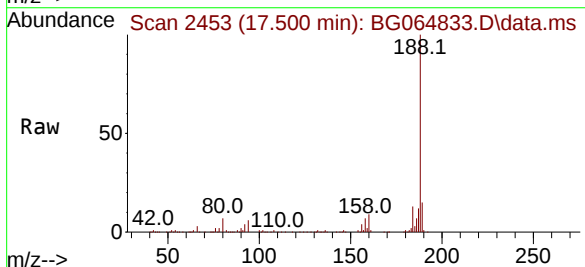
Instrument :
BNA_G
ClientSampleId :
LOQ-SOIL-02-QT4-2025

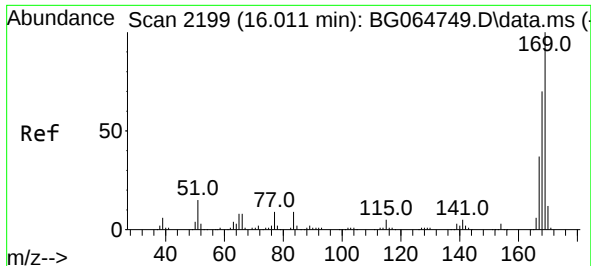
Tgt Ion: 77	Resp: 17285
Ion Ratio	Lower Upper
77 100	
182 26.7	8.1 48.1
105 19.6	0.1 40.1
51 35.0	16.0 56.0



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.500 min Scan# 2453
Delta R.T. -0.003 min
Lab File: BG064833.D
Acq: 20 Nov 2025 14:19

Tgt Ion:188	Resp: 318498
Ion Ratio	Lower Upper
188 100	
94 6.3	4.7 7.1
80 7.2	5.4 8.2

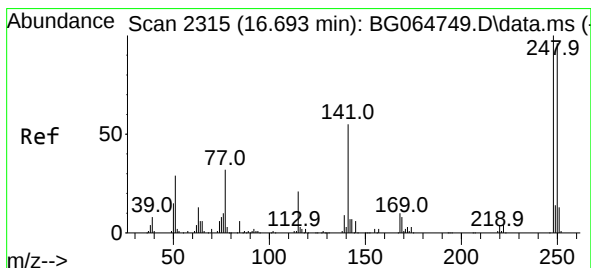
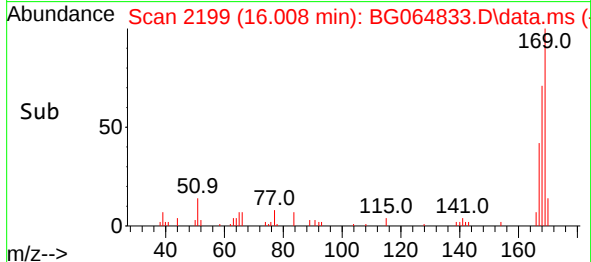
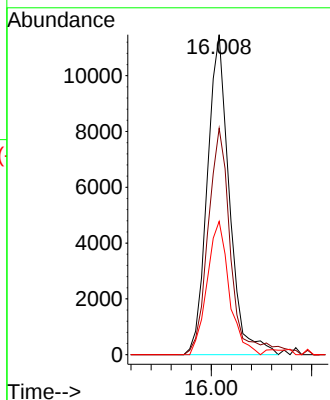
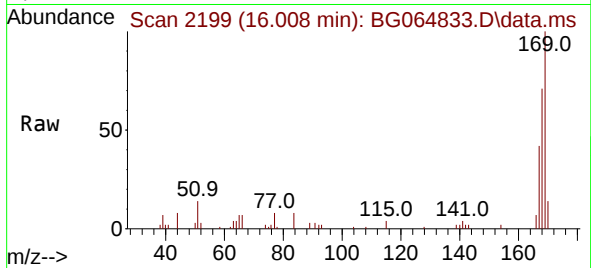




#66
n-Nitrosodiphenylamine
Concen: 2.100 ng
RT: 16.008 min Scan# 2199
Delta R.T. -0.003 min
Lab File: BG064833.D
Acq: 20 Nov 2025 14:19

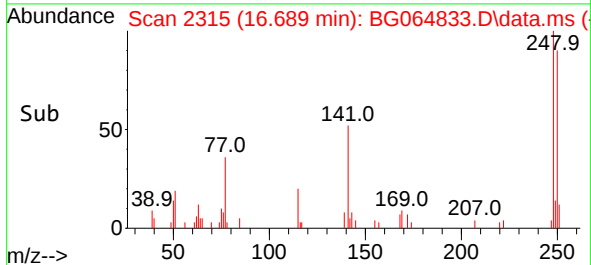
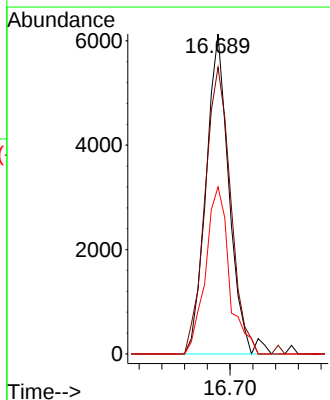
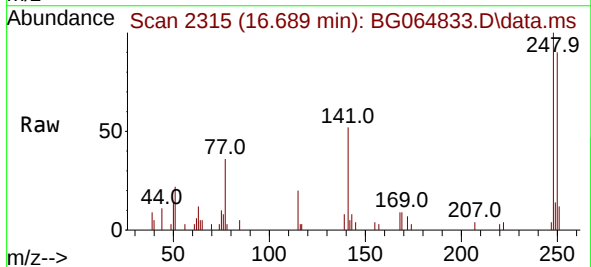
Instrument :
BNA_G
ClientSampleId :
LOQ-SOIL-02-QT4-2025

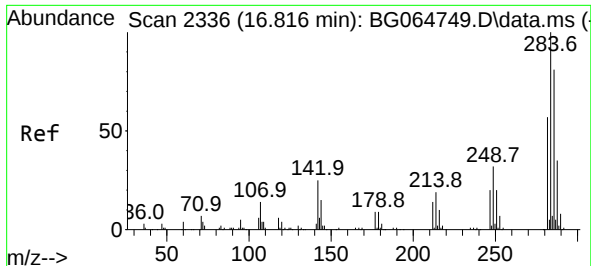
Tgt Ion:169 Resp: 17522
Ion Ratio Lower Upper
169 100
168 70.7 55.9 83.9
167 41.7 29.8 44.6



#67
4-Bromophenyl-phenylether
Concen: 2.057 ng
RT: 16.689 min Scan# 2315
Delta R.T. -0.003 min
Lab File: BG064833.D
Acq: 20 Nov 2025 14:19

Tgt Ion:248 Resp: 8602
Ion Ratio Lower Upper
248 100
250 89.6 77.0 115.6
141 52.2 43.7 65.5

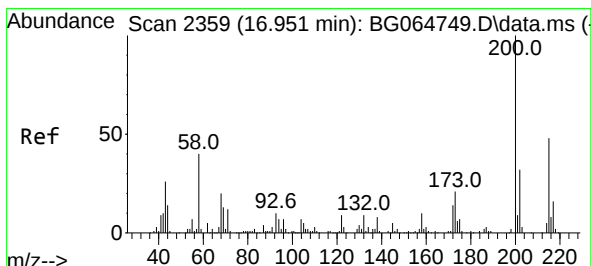
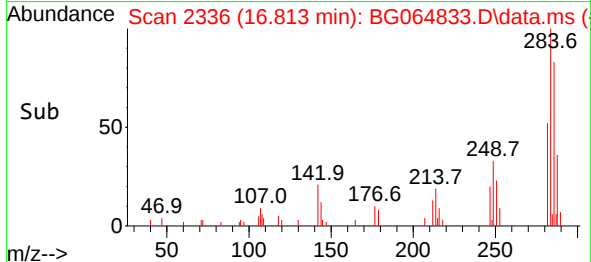
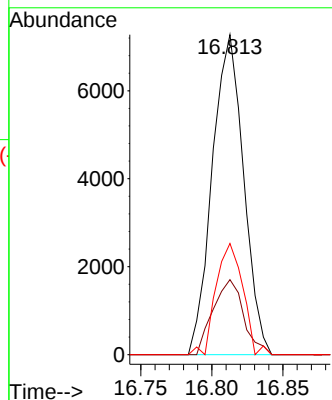
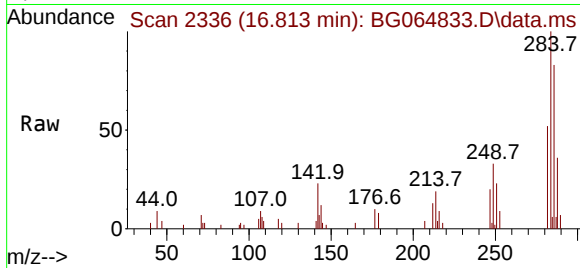




#68
Hexachlorobenzene
Concen: 2.203 ng
RT: 16.813 min Scan# 21
Delta R.T. -0.003 min
Lab File: BG064833.D
Acq: 20 Nov 2025 14:19

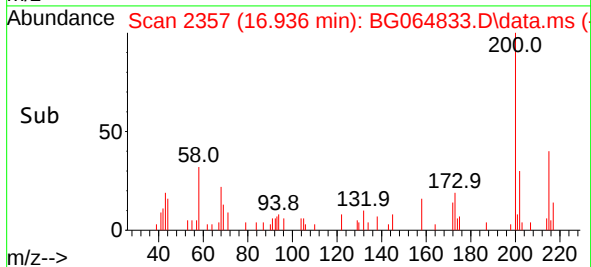
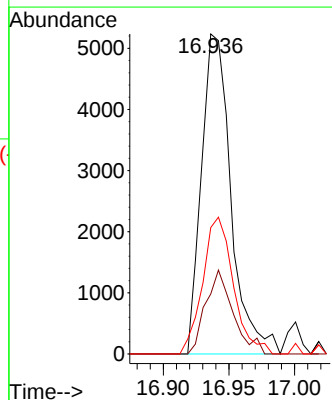
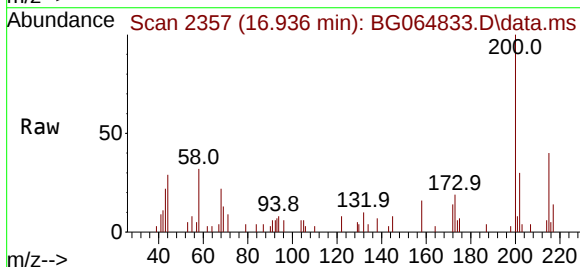
Instrument :
BNA_G
ClientSampleId :
LOQ-SOIL-02-QT4-2025

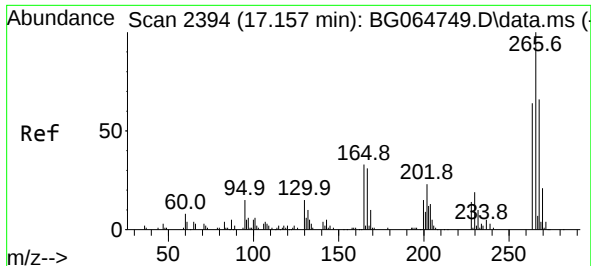
Tgt Ion:284 Resp: 11166
Ion Ratio Lower Upper
284 100
142 30.3 19.7 29.5#
249 34.8 28.1 42.1



#69
Atrazine
Concen: 2.037 ng
RT: 16.936 min Scan# 2357
Delta R.T. -0.015 min
Lab File: BG064833.D
Acq: 20 Nov 2025 14:19

Tgt Ion:200 Resp: 8194
Ion Ratio Lower Upper
200 100
173 18.8 0.9 40.9
215 39.5 27.5 67.5

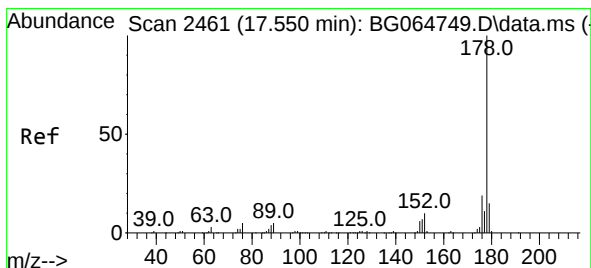
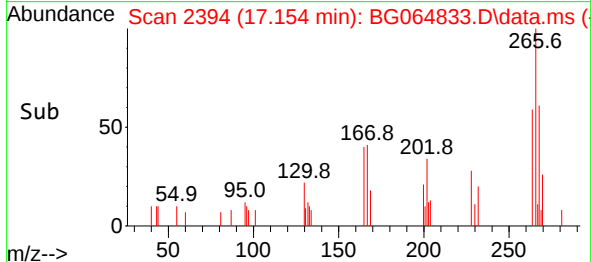
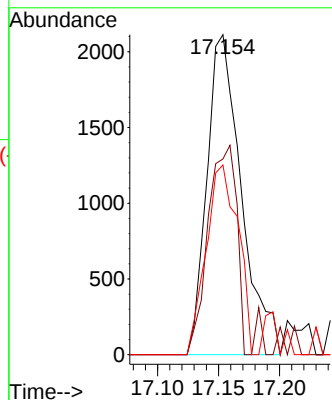
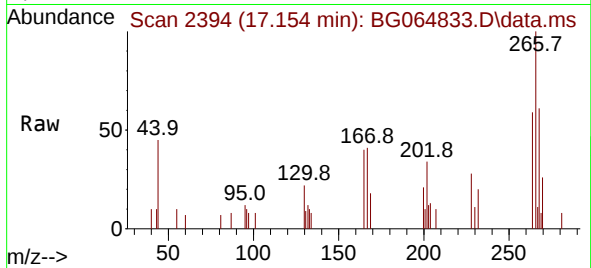




#70
 Pentachlorophenol
 Concen: 7.422 ng
 RT: 17.154 min Scan# 21
 Delta R.T. -0.003 min
 Lab File: BG064833.D
 Acq: 20 Nov 2025 14:19

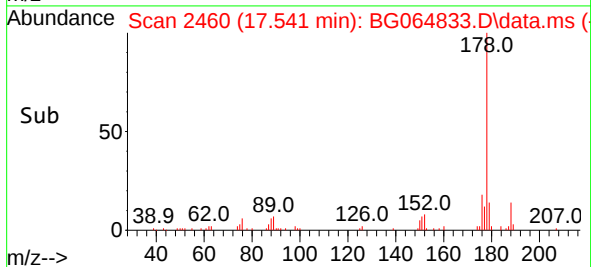
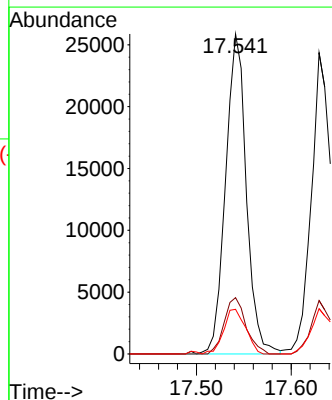
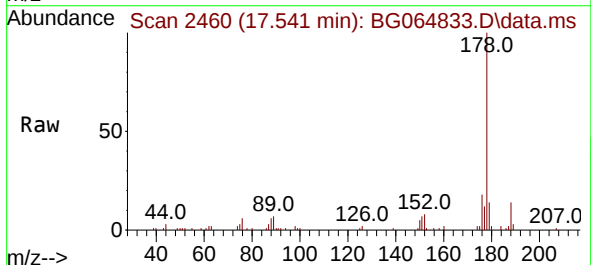
Instrument :
 BNA_G
 ClientSampleId :
 LOQ-SOIL-02-QT4-2025

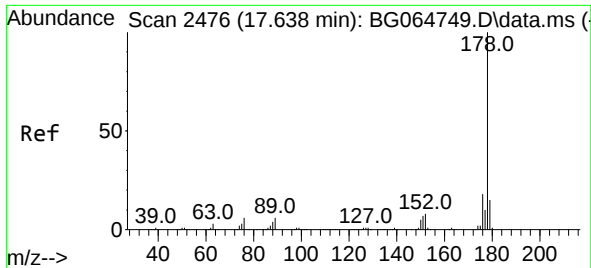
Tgt Ion:266 Resp: 4154
 Ion Ratio Lower Upper
 266 100
 268 61.1 56.1 84.1
 264 59.3 51.2 76.8



#71
 Phenanthrene
 Concen: 2.261 ng
 RT: 17.541 min Scan# 2460
 Delta R.T. -0.009 min
 Lab File: BG064833.D
 Acq: 20 Nov 2025 14:19

Tgt Ion:178 Resp: 39404
 Ion Ratio Lower Upper
 178 100
 176 17.6 14.8 22.2
 179 14.0 12.2 18.4

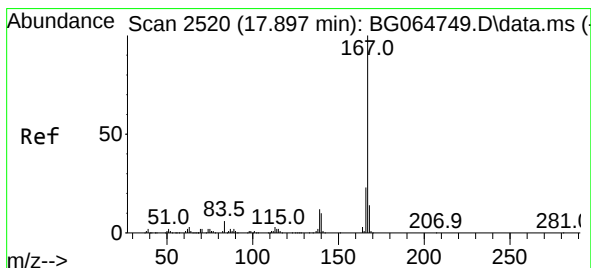
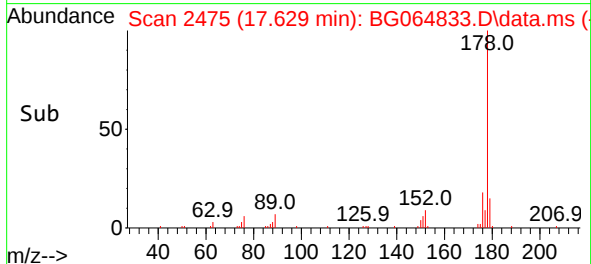
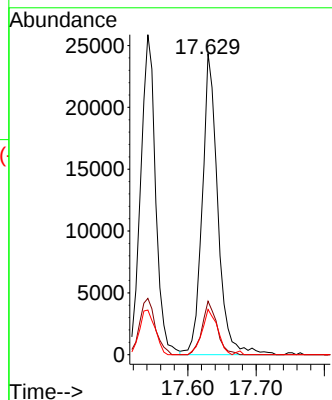
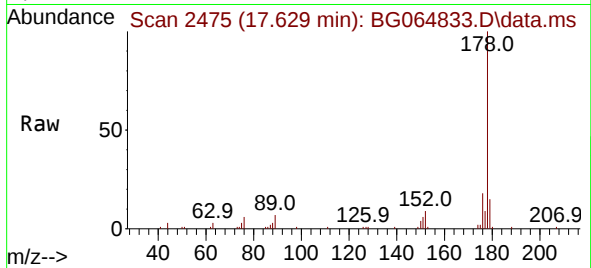




#72
 Anthracene
 Concen: 2.176 ng
 RT: 17.629 min Scan# 2476
 Delta R.T. -0.009 min
 Lab File: BG064833.D
 Acq: 20 Nov 2025 14:19

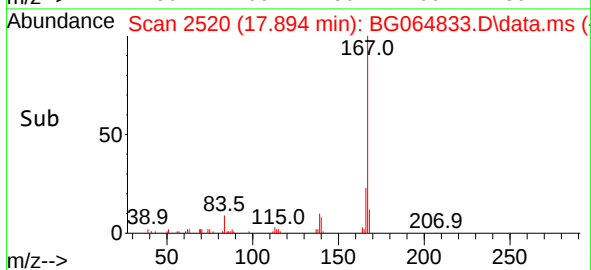
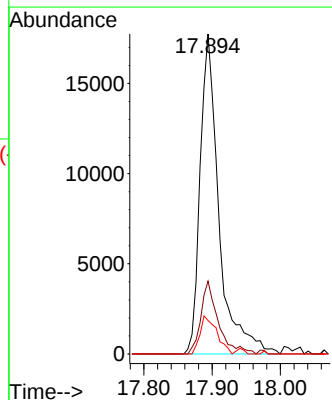
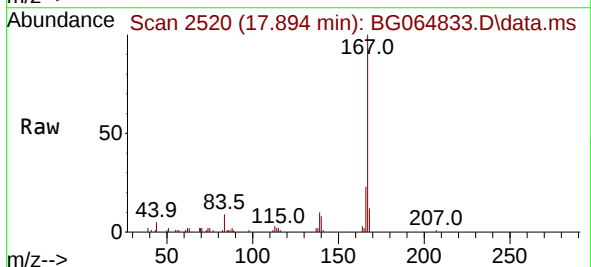
Instrument :
 BNA_G
 ClientSampleId :
 LOQ-SOIL-02-QT4-2025

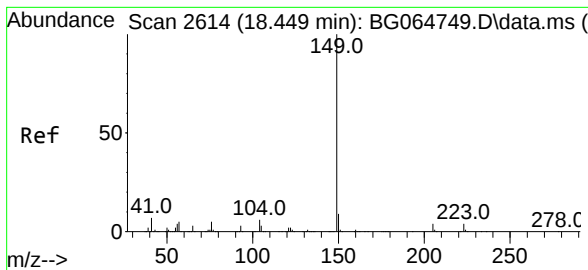
Tgt Ion:178 Resp: 38668
 Ion Ratio Lower Upper
 178 100
 176 17.7 14.5 21.7
 179 15.1 12.2 18.4



#73
 Carbazole
 Concen: 2.231 ng
 RT: 17.894 min Scan# 2520
 Delta R.T. -0.003 min
 Lab File: BG064833.D
 Acq: 20 Nov 2025 14:19

Tgt Ion:167 Resp: 34080
 Ion Ratio Lower Upper
 167 100
 166 22.8 18.0 27.0
 139 10.4 9.7 14.5

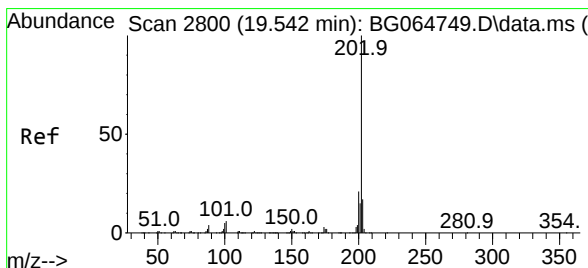
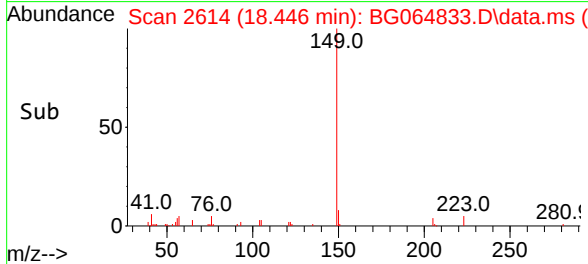
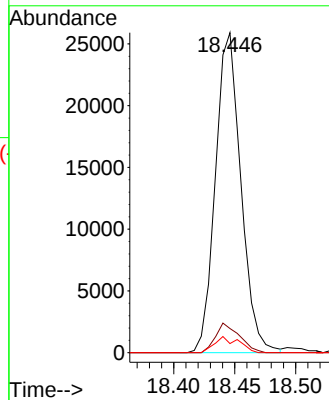
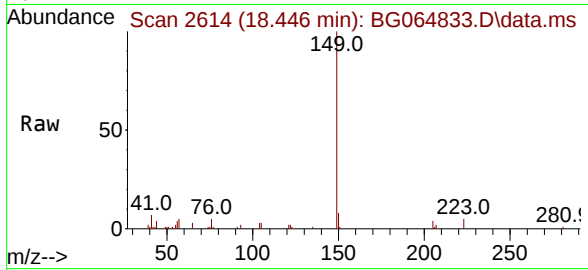




#74
Di-n-butylphthalate
Concen: 2.212 ng
RT: 18.446 min Scan# 2614
Delta R.T. -0.003 min
Lab File: BG064833.D
Acq: 20 Nov 2025 14:19

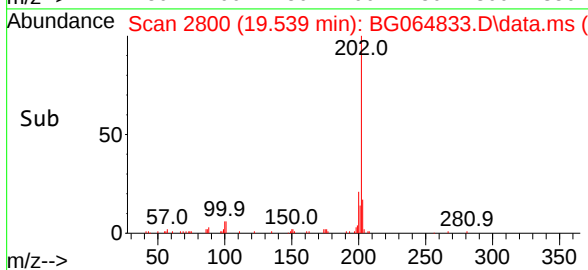
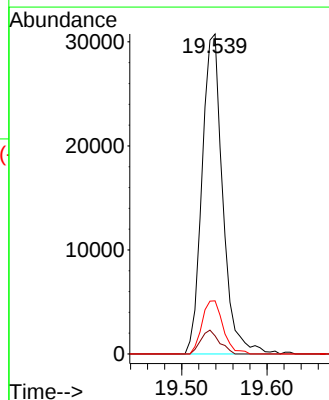
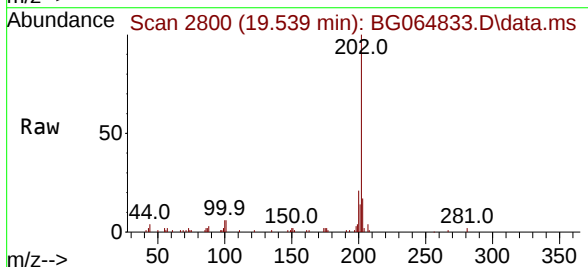
Instrument : BNA_G
ClientSampleId : LOQ-SOIL-02-QT4-2025

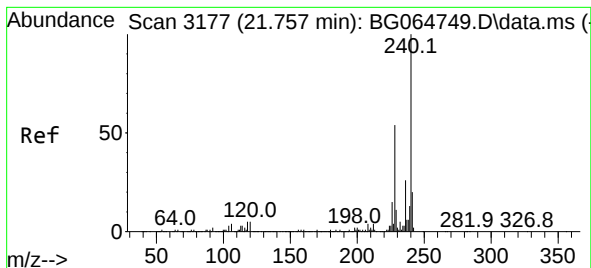
Tgt Ion:149 Resp: 37689
Ion Ratio Lower Upper
149 100
150 8.3 7.5 11.3
104 2.8 4.4 6.6#



#75
Fluoranthene
Concen: 2.177 ng
RT: 19.539 min Scan# 2800
Delta R.T. -0.003 min
Lab File: BG064833.D
Acq: 20 Nov 2025 14:19

Tgt Ion:202 Resp: 51873
Ion Ratio Lower Upper
202 100
101 5.6 0.0 26.4
203 16.6 0.0 37.5





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.748 min Scan# 31

Delta R.T. -0.009 min

Lab File: BG064833.D

Acq: 20 Nov 2025 14:19

Instrument :

BNA_G

ClientSampleId :

LOQ-SOIL-02-QT4-2025

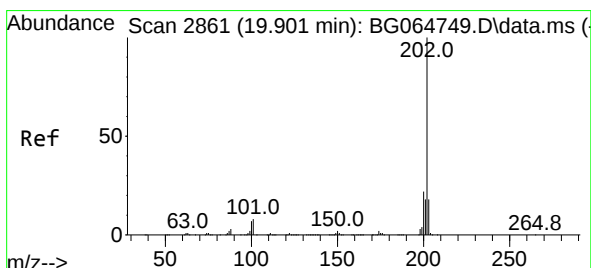
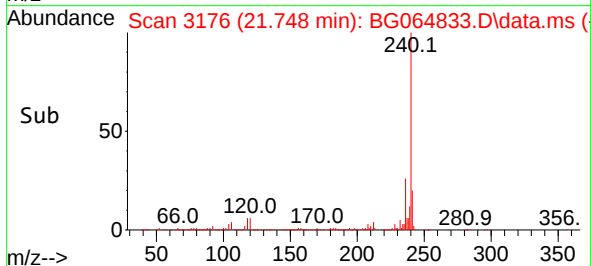
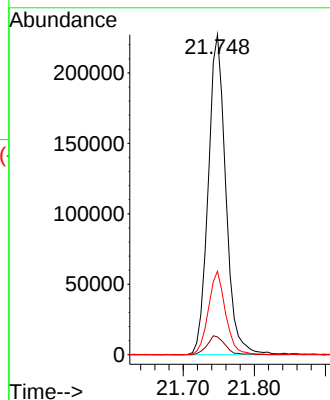
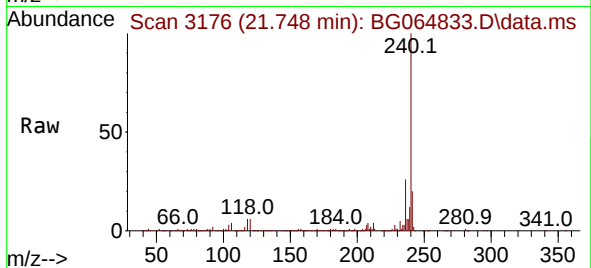
Tgt Ion:240 Resp: 389730

Ion Ratio Lower Upper

240 100

120 5.6 4.2 6.4

236 26.1 20.8 31.2



#78

Pyrene

Concen: 2.552 ng

RT: 19.892 min Scan# 2860

Delta R.T. -0.009 min

Lab File: BG064833.D

Acq: 20 Nov 2025 14:19

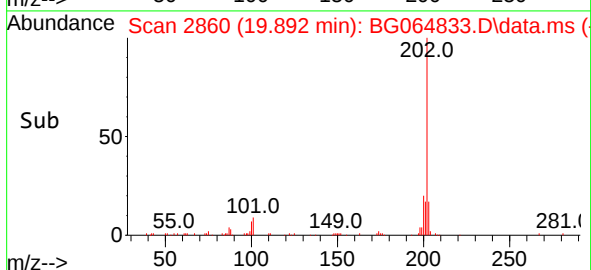
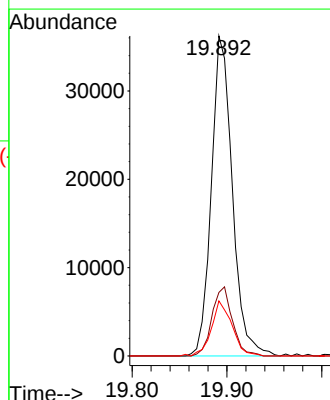
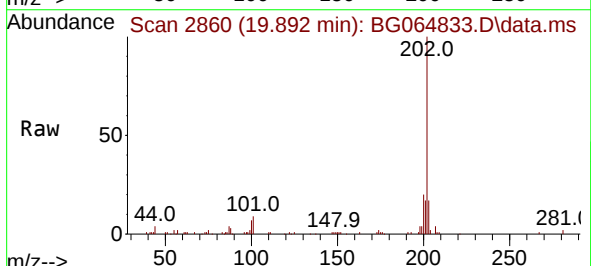
Tgt Ion:202 Resp: 55752

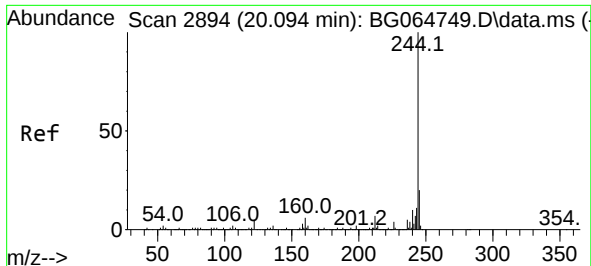
Ion Ratio Lower Upper

202 100

200 19.9 17.9 26.9

203 17.2 14.0 21.0

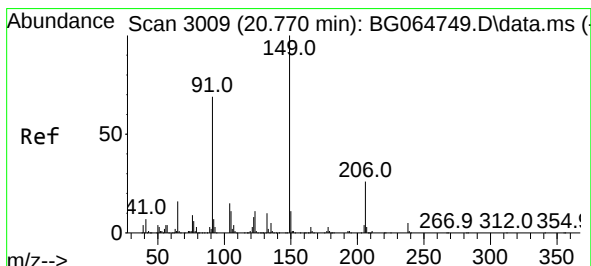
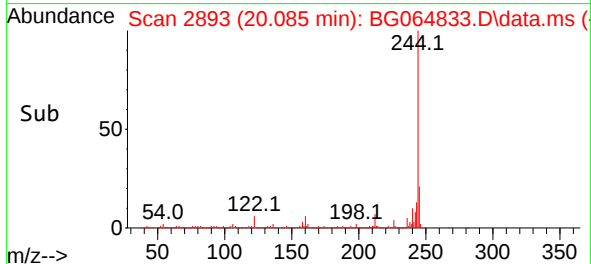
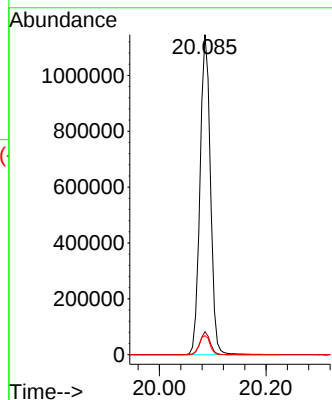
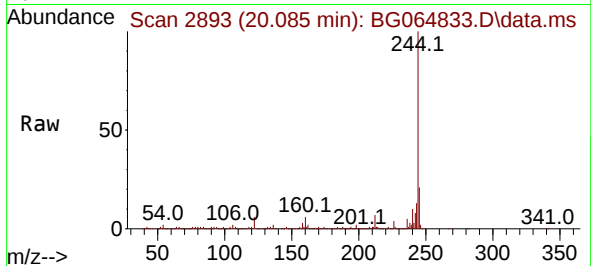




#79
 Terphenyl-d14
 Concen: 78.359 ng
 RT: 20.085 min Scan# 21
 Delta R.T. -0.009 min
 Lab File: BG064833.D
 Acq: 20 Nov 2025 14:19

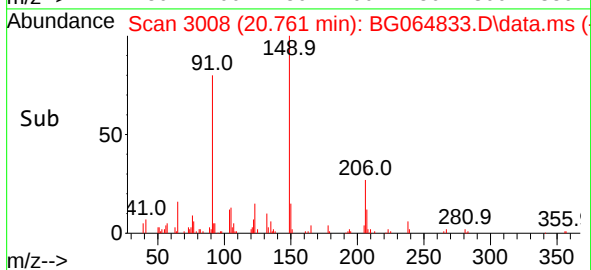
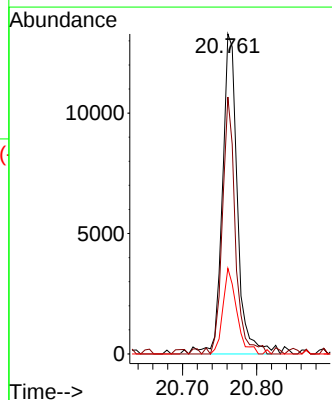
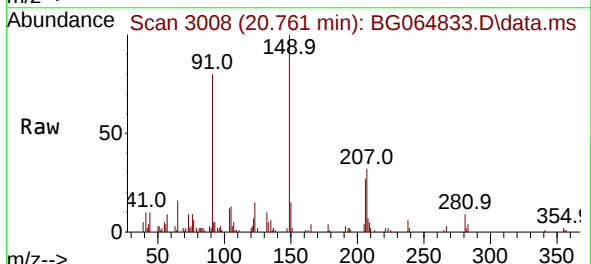
Instrument :
 BNA_G
 ClientSampleId :
 LOQ-SOIL-02-QT4-2025

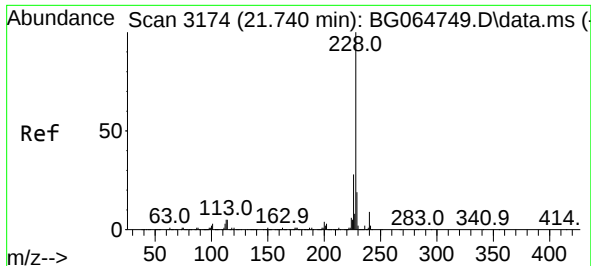
Tgt Ion:244 Resp: 1552489
 Ion Ratio Lower Upper
 244 100
 212 7.2 5.8 8.6
 122 6.0 4.3 6.5



#80
 Butylbenzylphthalate
 Concen: 2.446 ng
 RT: 20.761 min Scan# 3008
 Delta R.T. -0.009 min
 Lab File: BG064833.D
 Acq: 20 Nov 2025 14:19

Tgt Ion:149 Resp: 18792
 Ion Ratio Lower Upper
 149 100
 91 80.3 54.9 82.3
 206 26.7 21.2 31.8

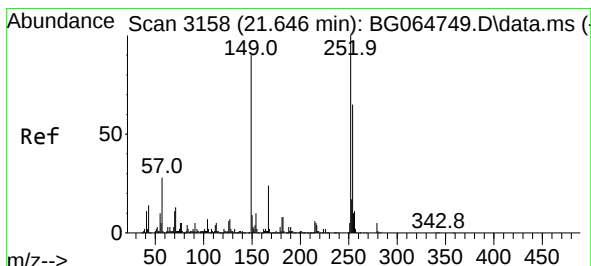
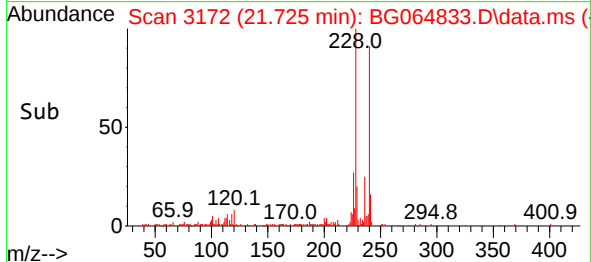
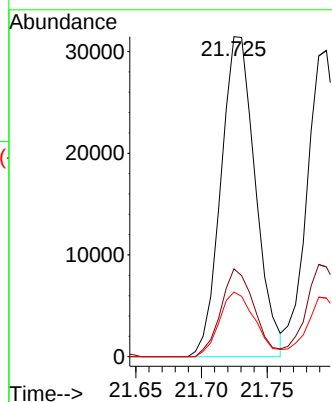
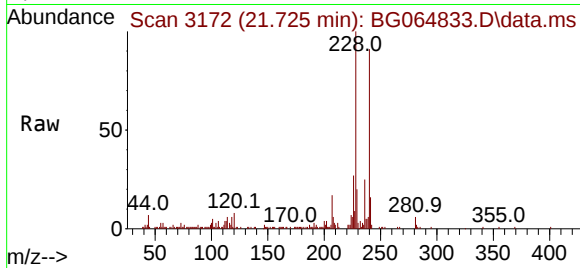




#81
Benzo(a)anthracene
Concen: 2.173 ng
RT: 21.725 min Scan# 3172
Delta R.T. -0.015 min
Lab File: BG064833.D
Acq: 20 Nov 2025 14:19

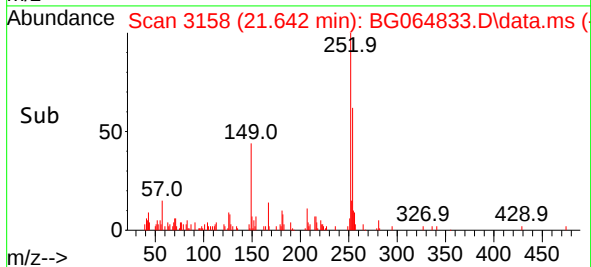
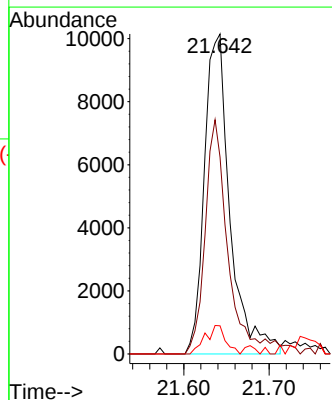
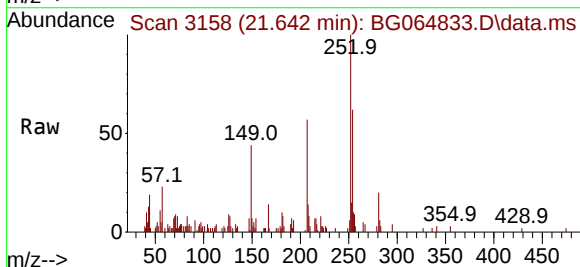
Instrument :
BNA_G
ClientSampleId :
LOQ-SOIL-02-QT4-2025

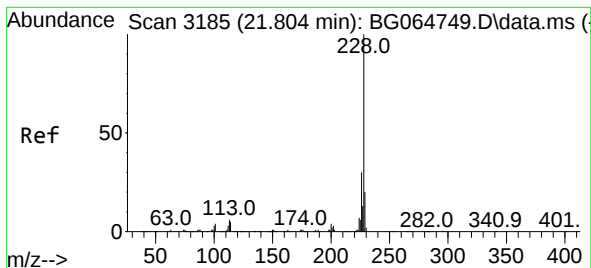
Tgt Ion:	228	Resp:	57595
Ion Ratio	Lower	Upper	
228	100		
226	27.5	22.1	33.1
229	20.2	15.5	23.3



#82
3,3'-Dichlorobenzidine
Concen: 2.172 ng
RT: 21.642 min Scan# 3158
Delta R.T. -0.003 min
Lab File: BG064833.D
Acq: 20 Nov 2025 14:19

Tgt Ion:	252	Resp:	21185
Ion Ratio	Lower	Upper	
252	100		
254	61.5	51.8	77.8
126	8.8	4.7	7.1





#83

Chrysene

Concen: 2.234 ng

RT: 21.795 min Scan# 3184

Delta R.T. -0.009 min

Lab File: BG064833.D

Acq: 20 Nov 2025 14:19

Instrument :

BNA_G

ClientSampleId :

LOQ-SOIL-02-QT4-2025

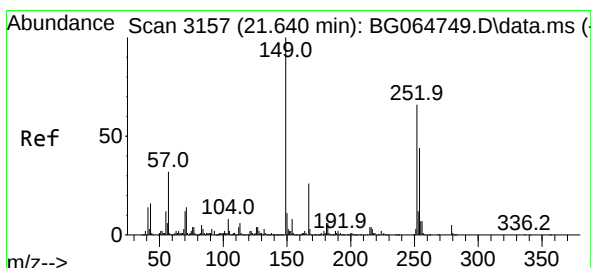
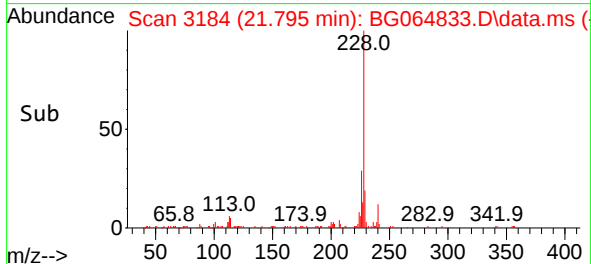
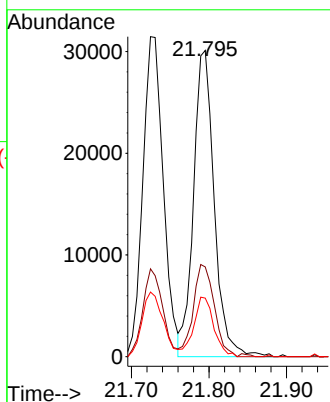
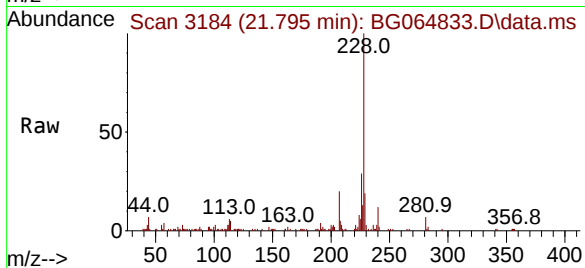
Tgt Ion:228 Resp: 55804

Ion Ratio Lower Upper

228 100

226 29.3 24.2 36.2

229 19.1 16.0 24.0



#84

Bis(2-ethylhexyl)phthalate

Concen: 2.359 ng

RT: 21.625 min Scan# 3155

Delta R.T. -0.015 min

Lab File: BG064833.D

Acq: 20 Nov 2025 14:19

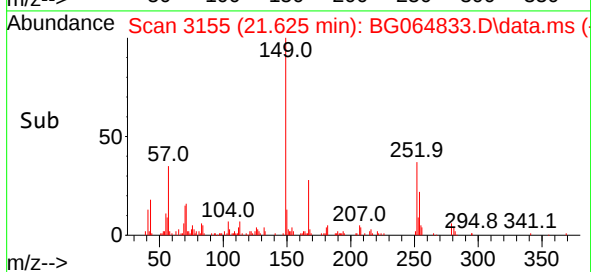
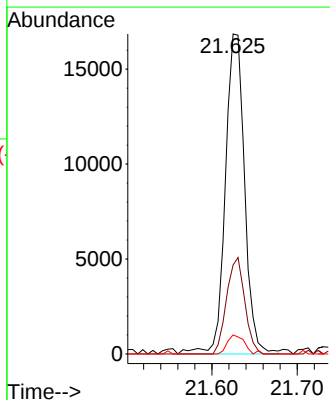
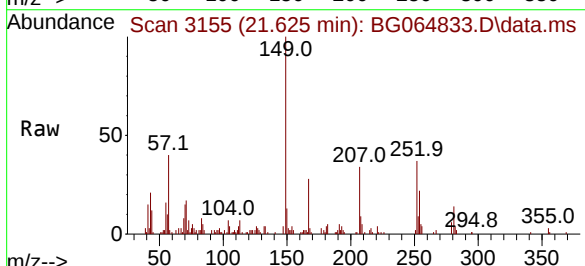
Tgt Ion:149 Resp: 26488

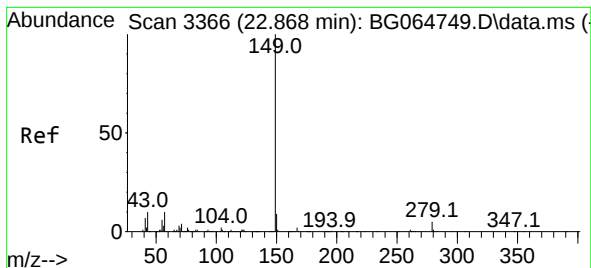
Ion Ratio Lower Upper

149 100

167 27.8 21.0 31.4

279 6.0 4.1 6.1





#85

Di-n-octyl phthalate

Concen: 2.176 ng

RT: 22.847 min Scan# 31

Delta R.T. -0.021 min

Lab File: BG064833.D

Acq: 20 Nov 2025 14:19

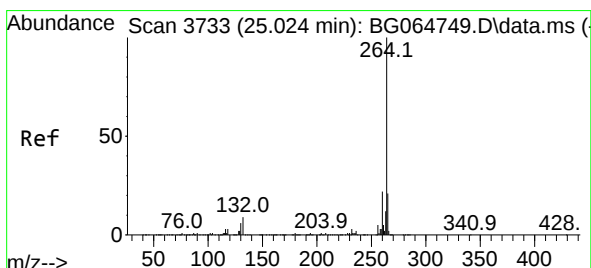
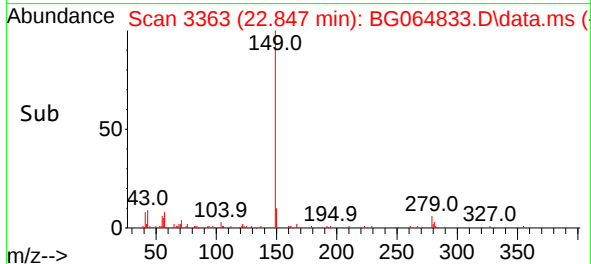
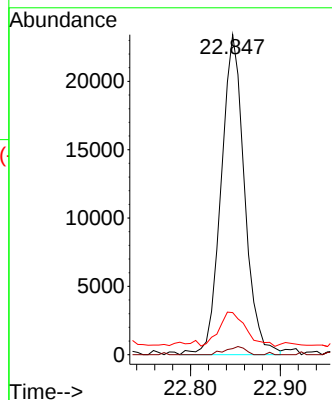
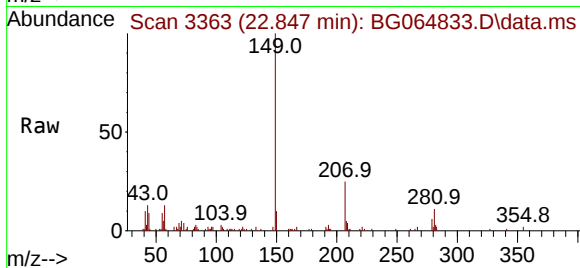
Instrument :

BNA_G

ClientSampleId :

LOQ-SOIL-02-QT4-2025

Tgt Ion:149	Resp:	42234
Ion Ratio	Lower	Upper
149	100	
167	2.1	1.2 1.8#
43	12.2	8.3 12.5



#86

Perylene-d12

Concen: 20.000 ng

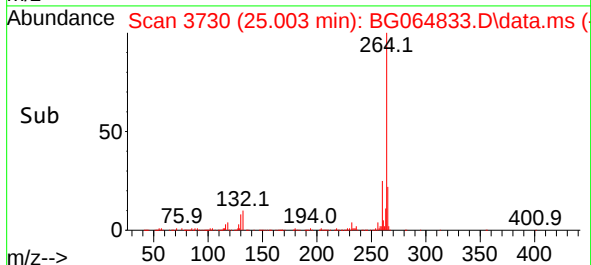
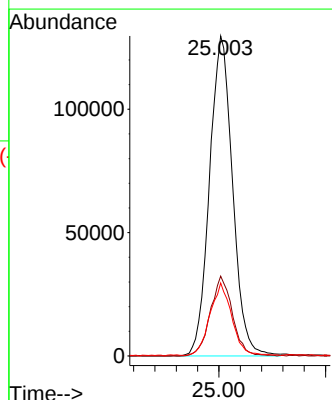
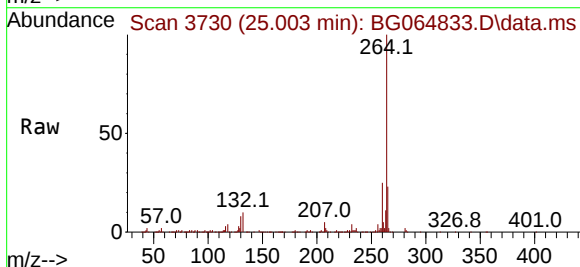
RT: 25.003 min Scan# 3730

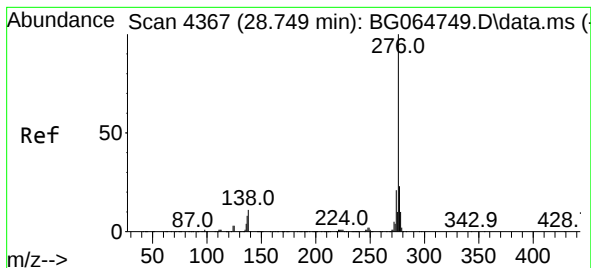
Delta R.T. -0.021 min

Lab File: BG064833.D

Acq: 20 Nov 2025 14:19

Tgt Ion:264	Resp:	390187
Ion Ratio	Lower	Upper
264	100	
260	25.0	17.2 25.8
265	22.8	16.6 25.0





#87

Indeno(1,2,3-cd)pyrene

Concen: 2.220 ng

RT: 28.716 min Scan# 41

Delta R.T. -0.033 min

Lab File: BG064833.D

Acq: 20 Nov 2025 14:19

Instrument :

BNA_G

ClientSampleId :

LOQ-SOIL-02-QT4-2025

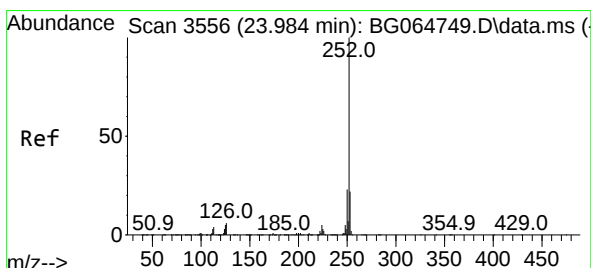
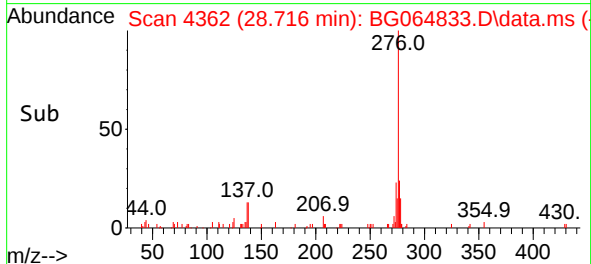
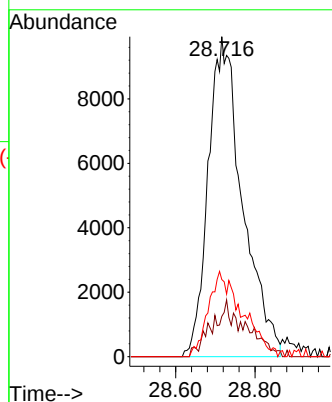
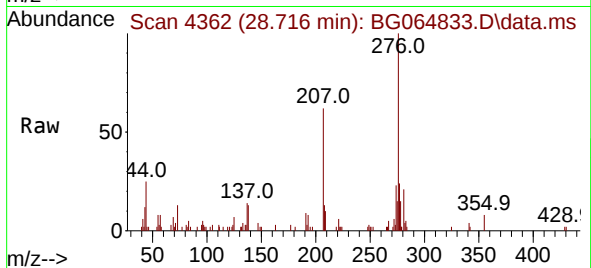
Tgt Ion:276 Resp: 59521

Ion Ratio Lower Upper

276 100

138 7.1 4.5 6.7#

277 13.5 20.0 30.0#



#88

Benzo(b)fluoranthene

Concen: 2.062 ng

RT: 23.963 min Scan# 3553

Delta R.T. -0.021 min

Lab File: BG064833.D

Acq: 20 Nov 2025 14:19

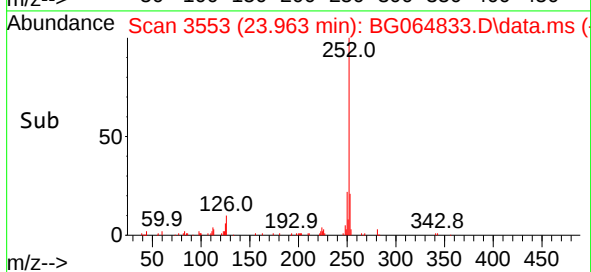
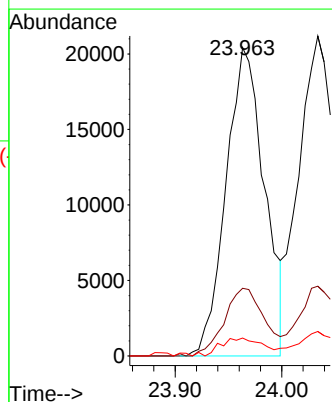
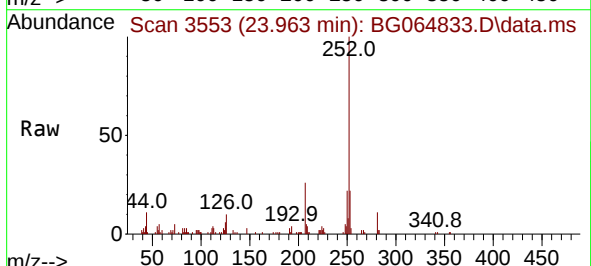
Tgt Ion:252 Resp: 51189

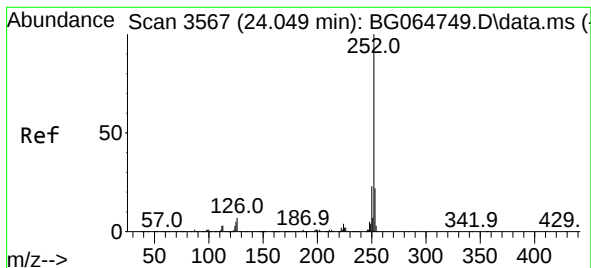
Ion Ratio Lower Upper

252 100

253 22.0 17.4 26.2

125 5.8 4.2 6.2





#89

Benzo(k)fluoranthene

Concen: 2.052 ng

RT: 23.963 min Scan# 3

Delta R.T. -0.085 min

Lab File: BG064833.D

Acq: 20 Nov 2025 14:19

Instrument :

BNA_G

ClientSampleId :

LOQ-SOIL-02-QT4-2025

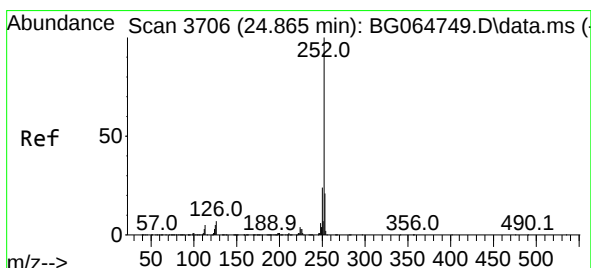
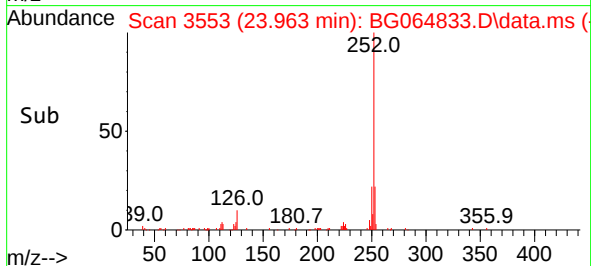
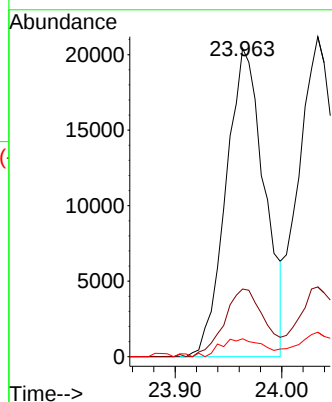
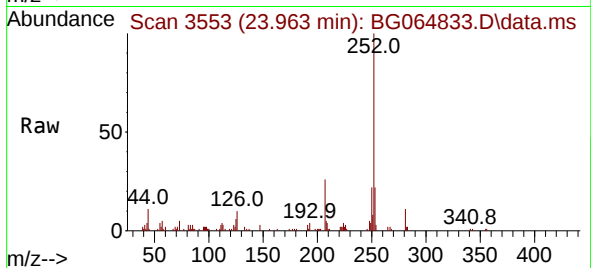
Tgt Ion:252 Resp: 51189

Ion Ratio Lower Upper

252 100

253 22.0 17.8 26.8

125 5.8 4.1 6.1



#90

Benzo(a)pyrene

Concen: 2.209 ng

RT: 24.845 min Scan# 3703

Delta R.T. -0.021 min

Lab File: BG064833.D

Acq: 20 Nov 2025 14:19

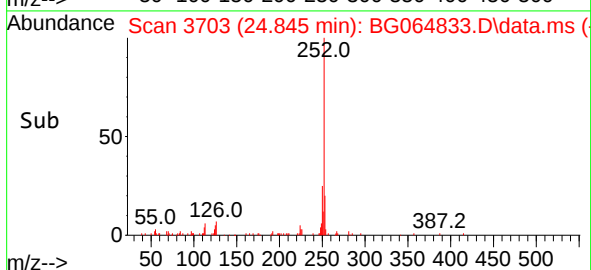
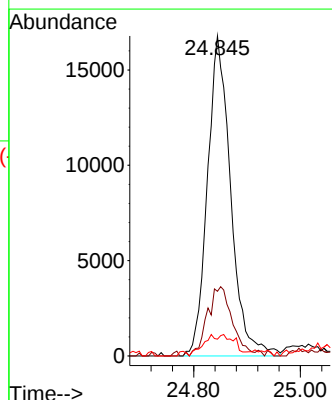
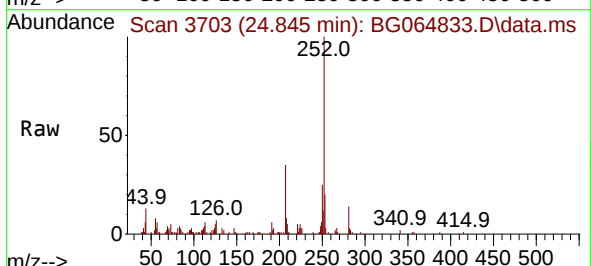
Tgt Ion:252 Resp: 50889

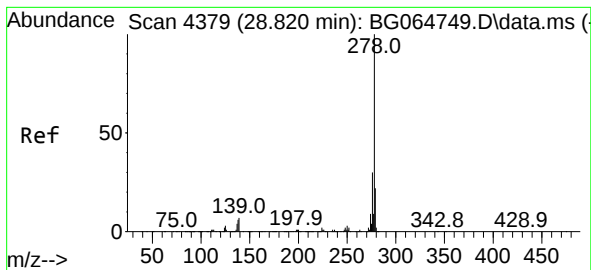
Ion Ratio Lower Upper

252 100

253 20.2 16.9 25.3

125 5.3 4.2 6.4





#91

Dibenzo(a,h)anthracene

Concen: 2.281 ng

RT: 28.787 min Scan# 41

Delta R.T. -0.033 min

Lab File: BG064833.D

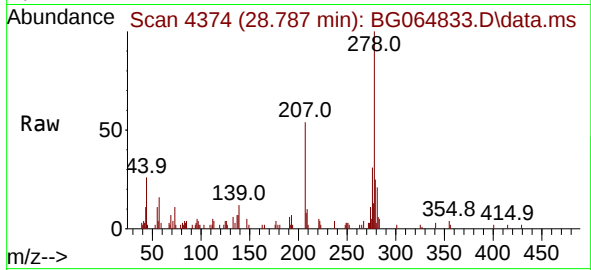
Acq: 20 Nov 2025 14:19

Instrument :

BNA_G

ClientSampleId :

LOQ-SOIL-02-QT4-2025



Tgt Ion:	278	Resp:	50092
Ion Ratio	Lower	Upper	
278	100		
139	12.0	5.8	8.8#
279	25.2	17.3	25.9

