

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG020525\
 Data File : BG063999.D
 Acq On : 5 Feb 2025 12:51
 Operator : RC/JU
 Sample : Q1168-02
 Misc : LOQ-SOIL 10PPM
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 LOQ-SOIL-02-QT1-2025

Quant Time: Feb 05 16:51:31 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG020325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 05 16:34:22 2025
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 02/06/2025
 Supervised By :mohammad ahmed 02/06/2025

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.873	152	60716	20.000	ng	0.00
21) Naphthalene-d8	10.658	136	260819	20.000	ng	0.00
39) Acenaphthene-d10	14.495	164	172177	20.000	ng	0.00
64) Phenanthrene-d10	17.233	188	389826	20.000	ng	0.00
76) Chrysene-d12	21.469	240	407921	20.000	ng	0.00
86) Perylene-d12	24.489	264	425868	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.459	112	355824	93.962	ng	0.00
7) Phenol-d6	7.033	99	491661	94.608	ng	0.00
23) Nitrobenzene-d5	9.019	82	320711	74.731	ng	0.00
42) 2,4,6-Tribromophenol	15.982	330	179621	94.970	ng	0.00
45) 2-Fluorobiphenyl	13.120	172	757746	67.429	ng	0.00
79) Terphenyl-d14	19.859	244	1305374	66.832	ng	0.00
Target Compounds						Qvalue
4) n-Nitrosodimethylamine	3.696	42	22437	8.035	ng	# 86
9) Benzaldehyde	7.016	77	33747	11.895	ng	99
15) Benzyl Alcohol	8.103	79	30605	7.879	ng	94
20) 3+4-Methylphenols	8.625	107	35052	7.436	ng	97
32) Benzoic acid	9.912	122	8585m	12.158	ng	
35) Caprolactam	11.551	113	9141	11.258	ng	# 78
41) Hexachlorocyclopentadiene	12.674	237	10804	8.407	ng	87
54) 2,4-Dinitrophenol	14.595	184	3745	7.595	ng	99
56) 4-Nitrophenol	14.689	139	14817	8.498	ng	98
65) 4,6-Dinitro-2-methylph...	15.611	198	7385	8.304	ng	86
70) Pentachlorophenol	16.886	266	18907	8.085	ng	89
77) Benzidine	19.466	184	75324	8.671	ng	# 95
85) Di-n-octyl phthalate	22.544	149	161742	12.936	ng	99

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

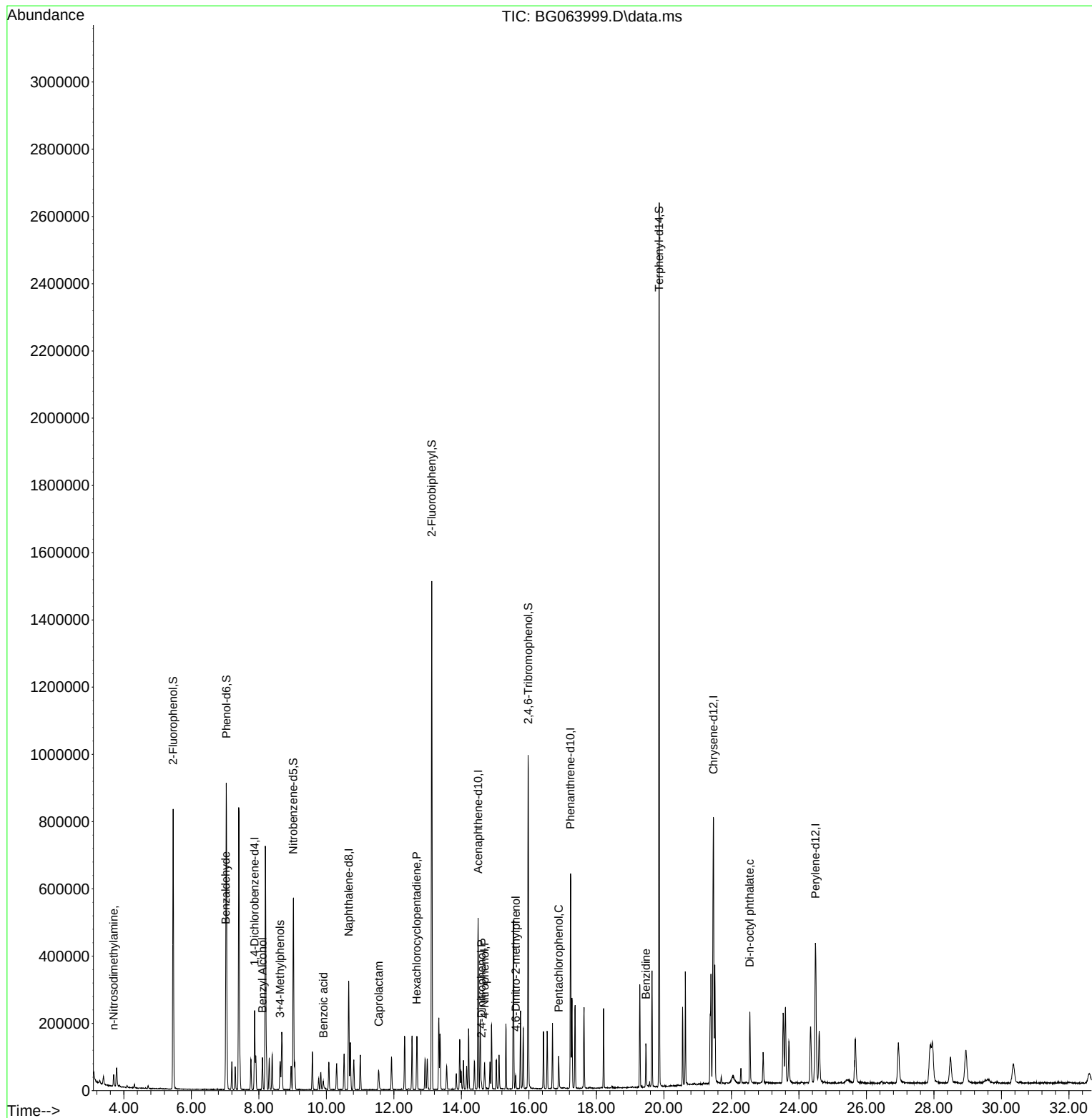
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG020525\
Data File : BG063999.D
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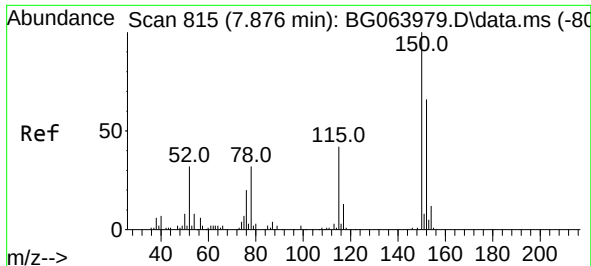
Instrument :
BNA_G
ClientSampleId :
LOQ-SOIL-02-QT1-2025

Quant Time: Feb 05 16:51:31 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG020325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Feb 05 16:34:22 2025
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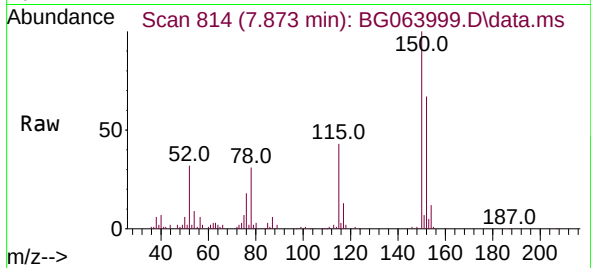
Reviewed By :Yogesh Patel 02/06/2025
Supervised By :mohammad ahmed 02/06/2025





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.873 min Scan# 815
Delta R.T. -0.003 min
Lab File: BG063999.D
Acq: 5 Feb 2025 12:51

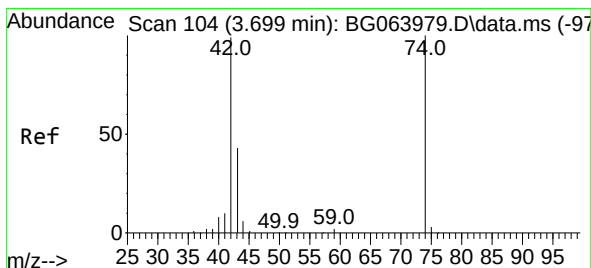
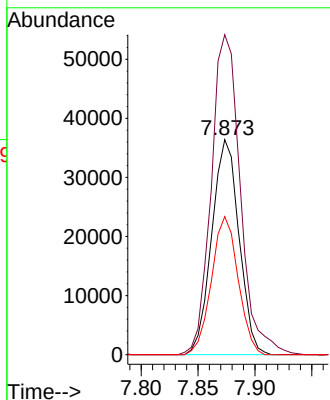
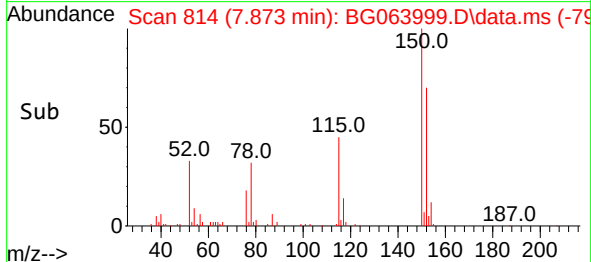
Instrument :
BNA_G
ClientSampleId :
LOQ-SOIL-02-QT1-2025



Tgt Ion:152 Resp: 60710
Ion Ratio Lower Upper
152 100
150 148.8 121.0 181.6
115 64.2 50.4 75.6

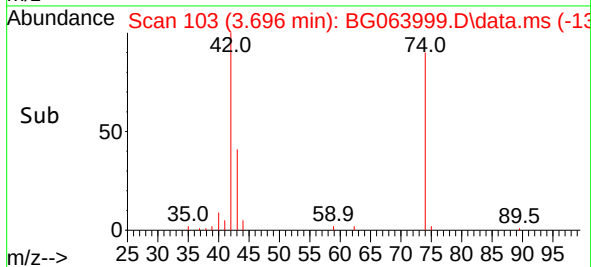
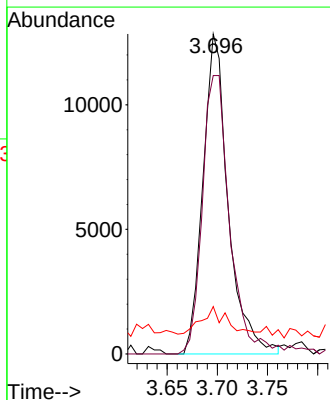
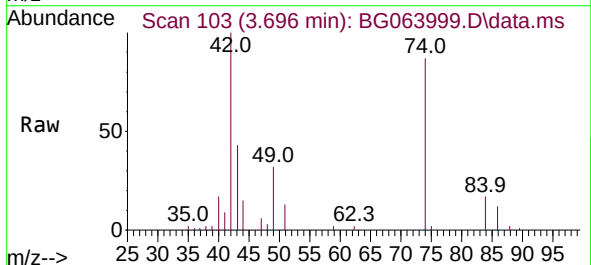
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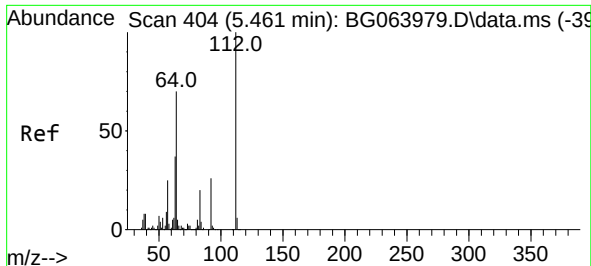
Reviewed By :Yogesh Patel 02/06/2025
Supervised By :mohammad ahmed 02/06/2025



#4
n-Nitrosodimethylamine
Concen: 8.035 ng
RT: 3.696 min Scan# 103
Delta R.T. -0.003 min
Lab File: BG063999.D
Acq: 5 Feb 2025 12:51

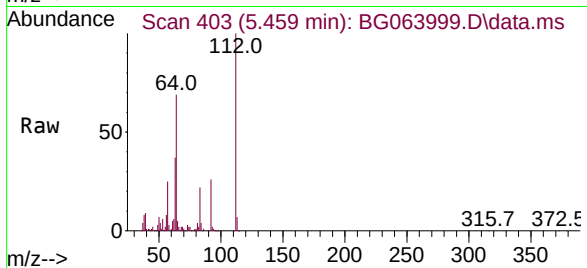
Tgt Ion: 42 Resp: 22437
Ion Ratio Lower Upper
42 100
74 87.0 80.8 121.2
44 14.8 5.8 8.6





#5
2-Fluorophenol
Concen: 93.962 ng
RT: 5.459 min Scan# 404
Delta R.T. -0.003 min
Lab File: BG063999.D
Acq: 5 Feb 2025 12:51

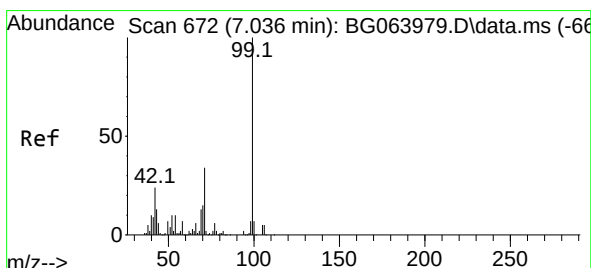
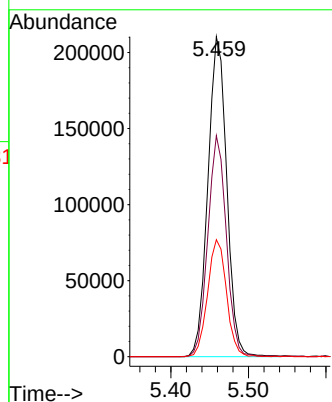
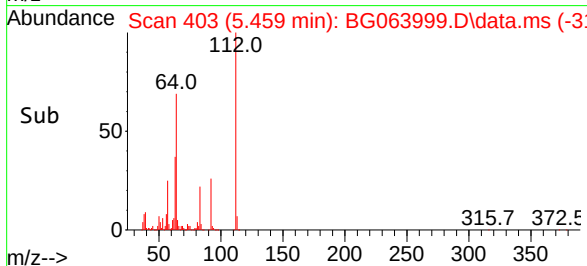
Instrument :
BNA_G
ClientSampleId :
LOQ-SOIL-02-QT1-2025



Tgt Ion:112 Resp: 355824
Ion Ratio Lower Upper
112 100
64 69.1 55.8 83.8
63 36.6 29.3 43.9

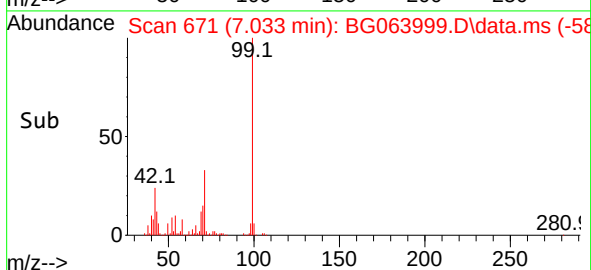
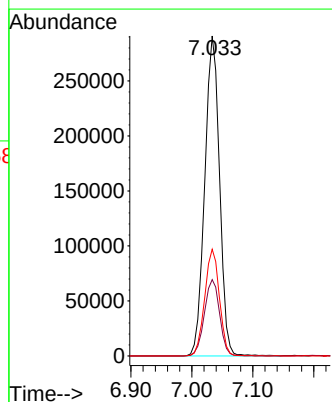
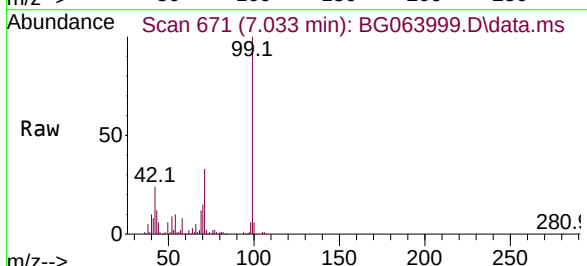
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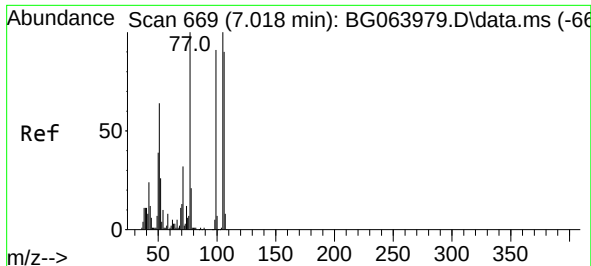
Reviewed By :Yogesh Patel 02/06/2025
Supervised By :mohammad ahmed 02/06/2025



#7
Phenol-d6
Concen: 94.608 ng
RT: 7.033 min Scan# 671
Delta R.T. -0.003 min
Lab File: BG063999.D
Acq: 5 Feb 2025 12:51

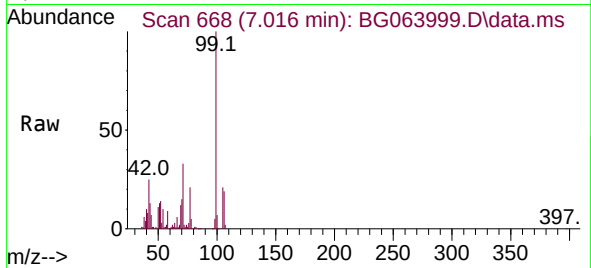
Tgt Ion: 99 Resp: 491661
Ion Ratio Lower Upper
99 100
42 23.8 18.9 28.3
71 33.4 27.0 40.6





#9
Benzaldehyde
Concen: 11.895 ng
RT: 7.016 min Scan# 609
Delta R.T. -0.003 min
Lab File: BG063999.D
Acq: 5 Feb 2025 12:51

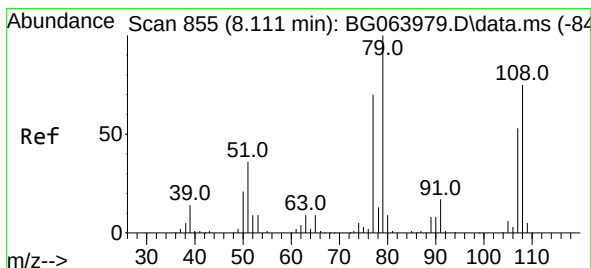
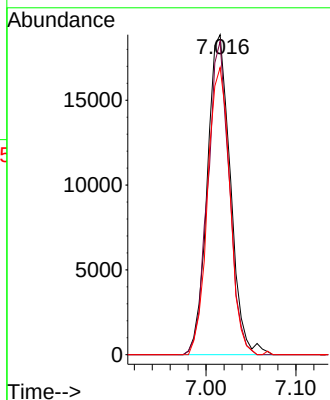
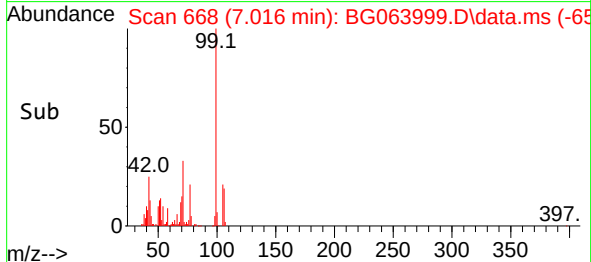
Instrument :
BNA_G
ClientSampleId :
LOQ-SOIL-02-QT1-2025



Tgt Ion: 77 Resp: 3374
Ion Ratio Lower Upper
77 100
105 97.9 79.8 119.8
106 89.7 69.9 109.9

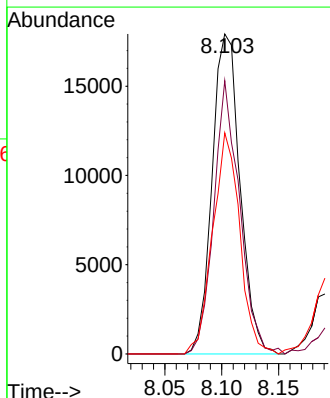
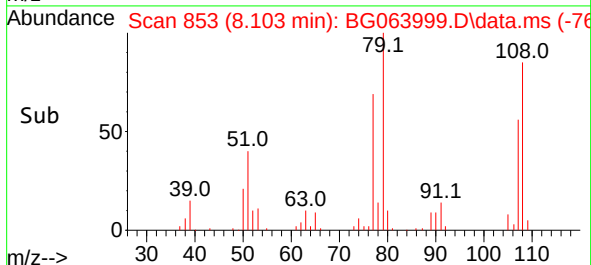
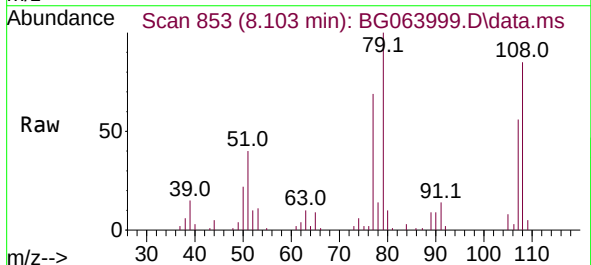
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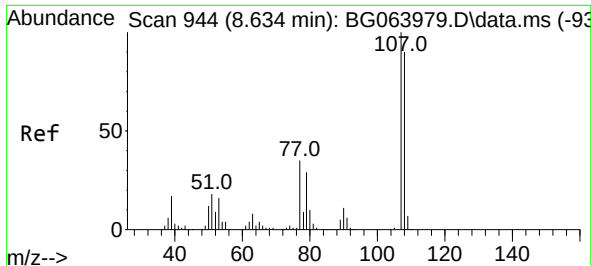
Reviewed By :Yogesh Patel 02/06/2025
Supervised By :mohammad ahmed 02/06/2025



#15
Benzyl Alcohol
Concen: 7.879 ng
RT: 8.103 min Scan# 853
Delta R.T. -0.009 min
Lab File: BG063999.D
Acq: 5 Feb 2025 12:51

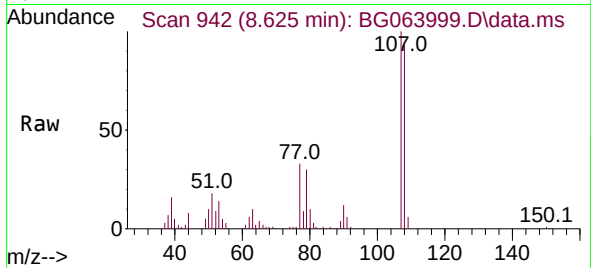
Tgt Ion: 79 Resp: 30605
Ion Ratio Lower Upper
79 100
108 85.4 60.3 90.5
77 69.1 55.8 83.8





#20
3+4-Methylphenols
Concen: 7.436 ng
RT: 8.625 min Scan# 944
Delta R.T. -0.009 min
Lab File: BG063999.D
Acq: 5 Feb 2025 12:51

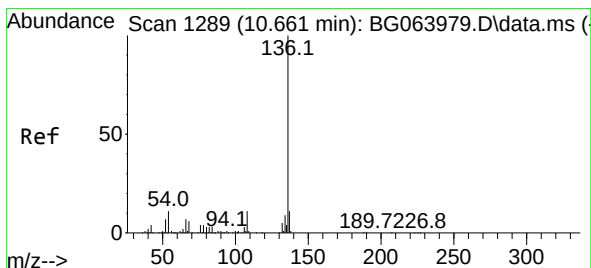
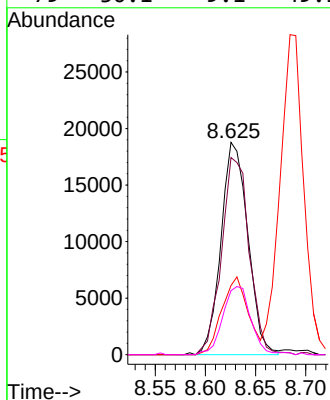
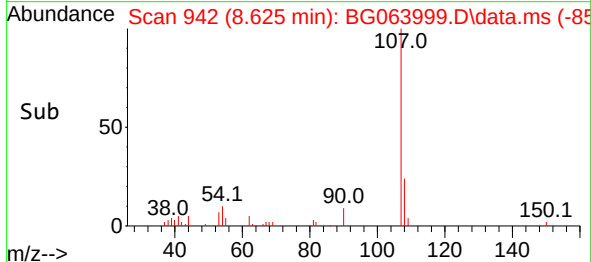
Instrument : BNA_G
ClientSampleId :
LOQ-SOIL-02-QT1-2025



Tgt Ion:107 Resp: 35052
Ion Ratio Lower Upper
107 100
108 92.9 70.0 110.0
77 32.6 15.2 55.2
79 30.1 9.1 49.1

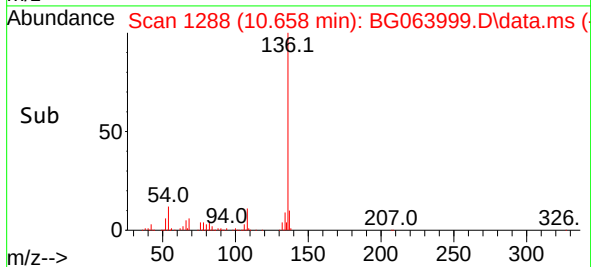
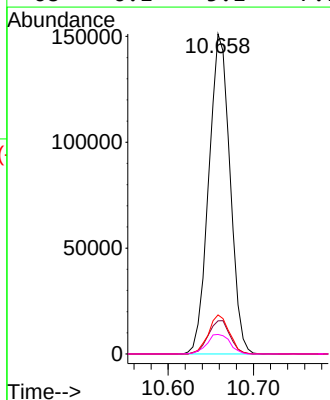
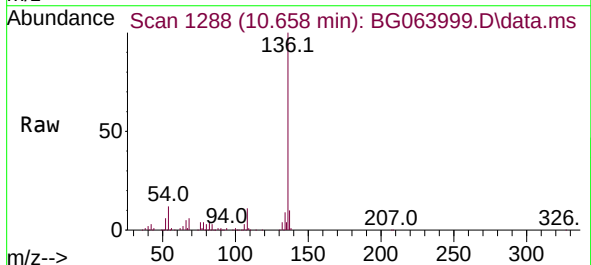
Manual Integrations
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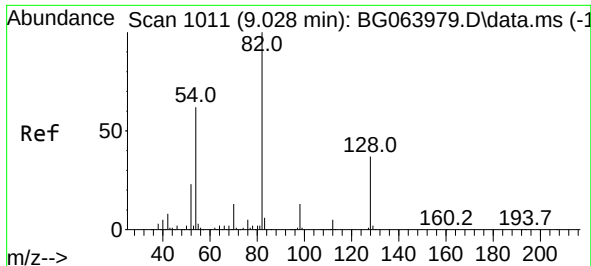
Reviewed By :Yogesh Patel 02/06/2025
Supervised By :mohammad ahmed 02/06/2025



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.658 min Scan# 1288
Delta R.T. -0.003 min
Lab File: BG063999.D
Acq: 5 Feb 2025 12:51

Tgt Ion:136 Resp: 260819
Ion Ratio Lower Upper
136 100
137 10.3 8.9 13.3
54 12.2 9.2 13.8
68 6.1 5.1 7.7





#23

Nitrobenzene-d5

Concen: 74.731 ng

RT: 9.019 min Scan# 1109

Delta R.T. -0.009 min

Lab File: BG063999.D

Acq: 5 Feb 2025 12:51

Instrument :

BNA_G

ClientSampleId :

LOQ-SOIL-02-QT1-2025

Tgt Ion: 82 Resp: 32071

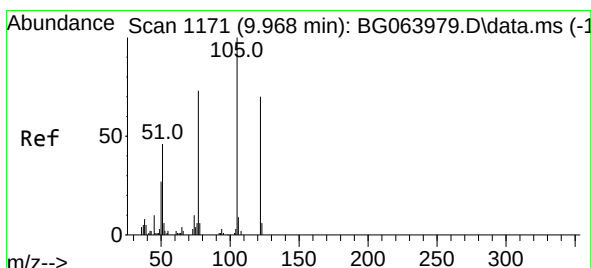
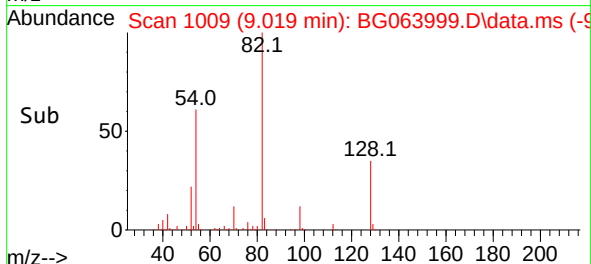
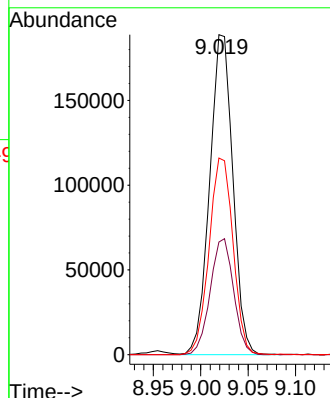
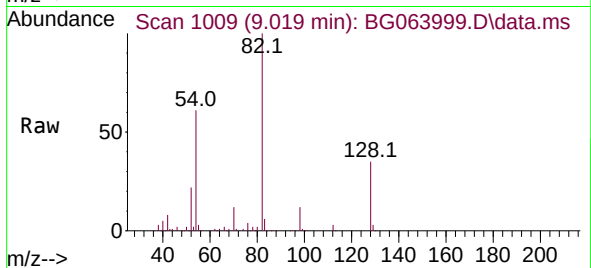
Ion	Ratio	Lower	Upper
82	100		
128	35.2	29.4	44.2
54	61.5	49.9	74.9

Manual Integrations

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Reviewed By :Yogesh Patel 02/06/2025

Supervised By :mohammad ahmed 02/06/2025



#32

Benzoic acid

Concen: 12.158 ng m

RT: 9.912 min Scan# 1161

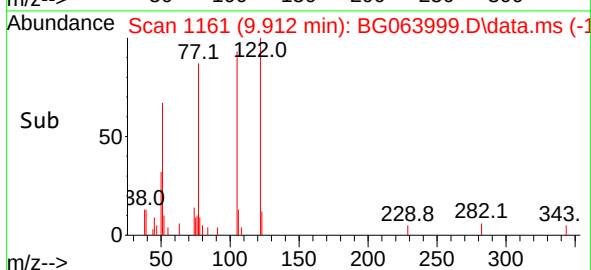
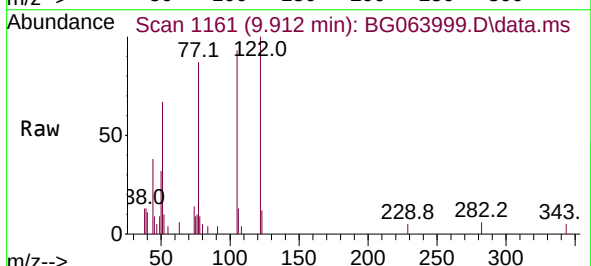
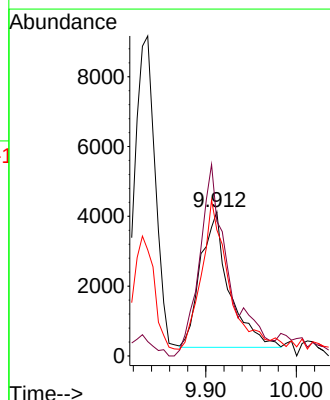
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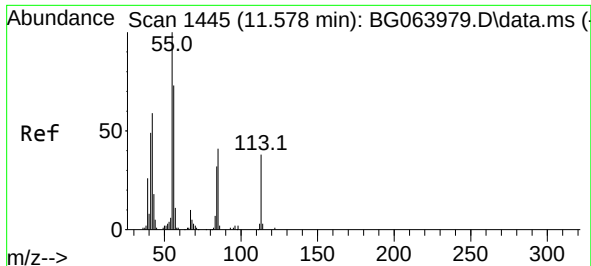
Lab File: BG063999.D

Acq: 5 Feb 2025 12:51

Tgt Ion:122 Resp: 8585

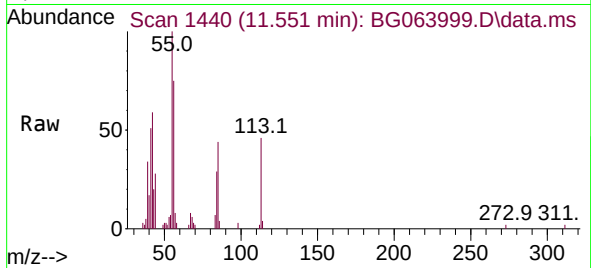
Ion	Ratio	Lower	Upper
122	100		
105	93.3	117.9	157.9#
77	87.4	83.9	123.9





#35
Caprolactam
Concen: 11.258 ng
RT: 11.551 min Scan# 1440
Delta R.T. -0.027 min
Lab File: BG063999.D
Acq: 5 Feb 2025 12:51

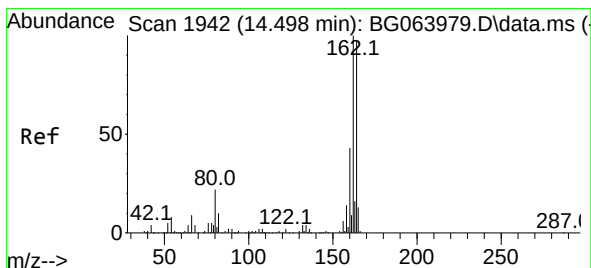
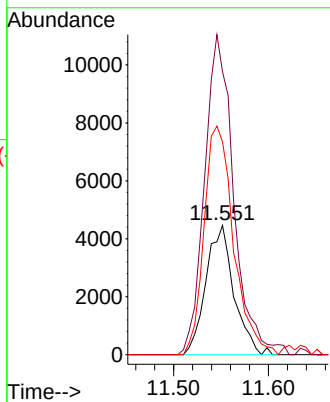
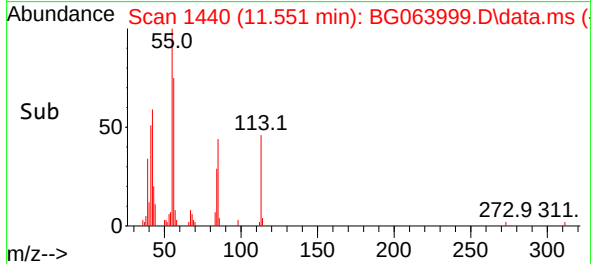
Instrument :
BNA_G
ClientSampleId :
LOQ-SOIL-02-QT1-2025



Tgt Ion:113 Resp: 914
Ion Ratio Lower Upper
113 100
55 218.7 241.8 281.8
56 164.5 171.5 211.5

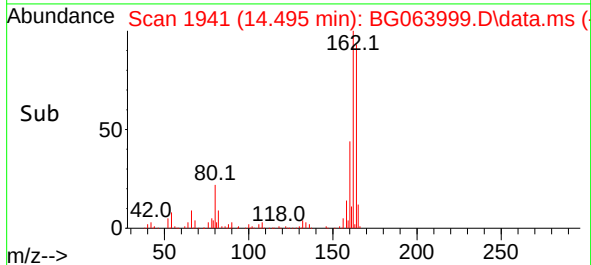
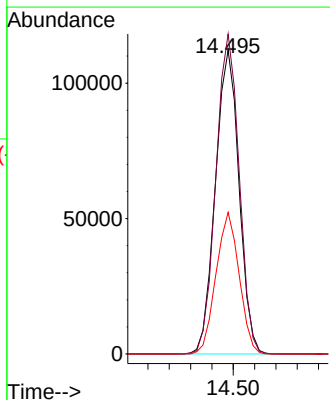
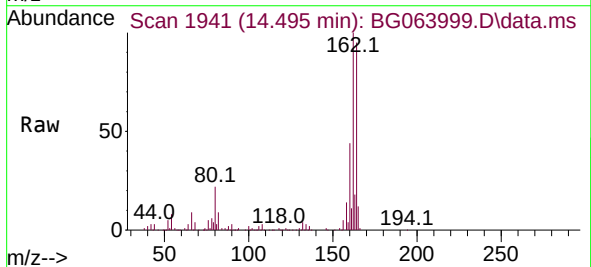
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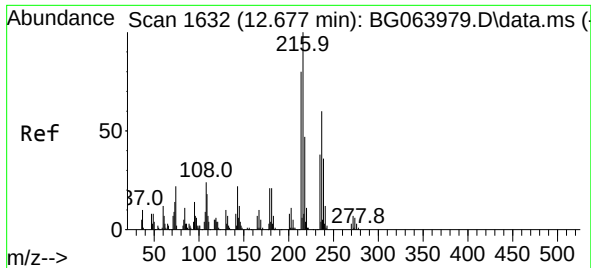
Reviewed By :Yogesh Patel 02/06/2025
Supervised By :mohammad ahmed 02/06/2025



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.495 min Scan# 1941
Delta R.T. -0.003 min
Lab File: BG063999.D
Acq: 5 Feb 2025 12:51

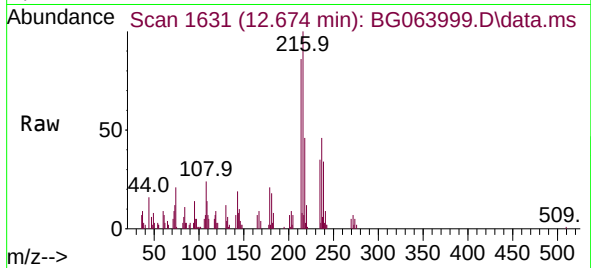
Tgt Ion:164 Resp: 172177
Ion Ratio Lower Upper
164 100
162 105.3 82.3 123.5
160 46.6 35.4 53.0





#41
Hexachlorocyclopentadiene
Concen: 8.407 ng
RT: 12.674 min Scan# 1
Delta R.T. -0.003 min
Lab File: BG063999.D
Acq: 5 Feb 2025 12:51

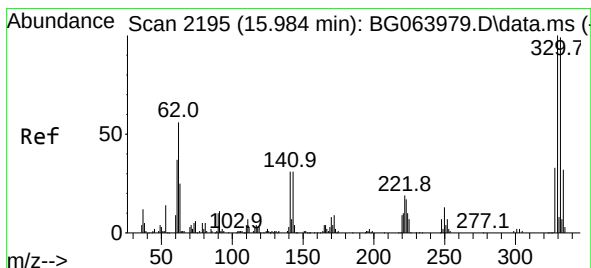
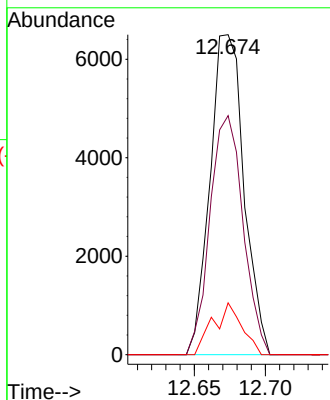
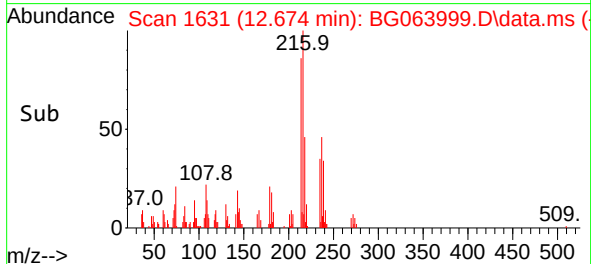
Instrument :
BNA_G
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LOQ-SOIL-02-QT1-2025



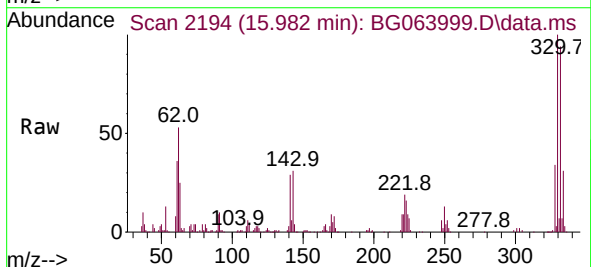
Tgt Ion:237 Resp: 10804
Ion Ratio Lower Upper
237 100
235 74.7 43.8 83.8
272 16.2 0.0 32.3

Manual Integrations
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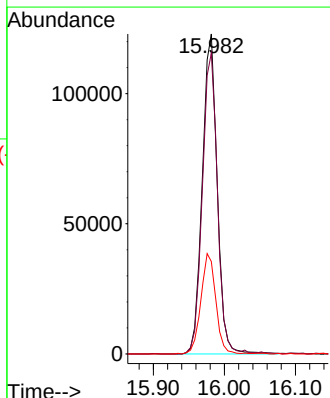
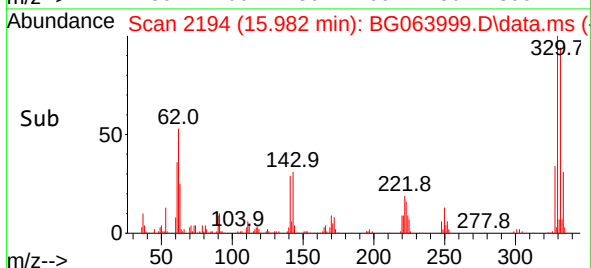
Reviewed By :Yogesh Patel 02/06/2025
Supervised By :mohammad ahmed 02/06/2025

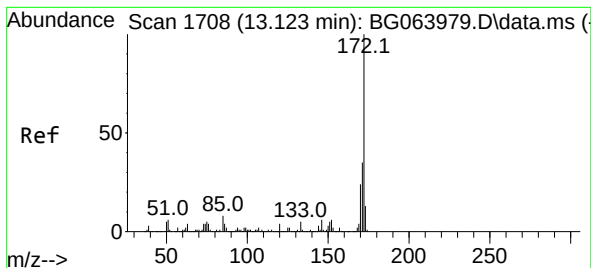


#42
2,4,6-Tribromophenol
Concen: 94.970 ng
RT: 15.982 min Scan# 2194
Delta R.T. -0.002 min
Lab File: BG063999.D
Acq: 5 Feb 2025 12:51



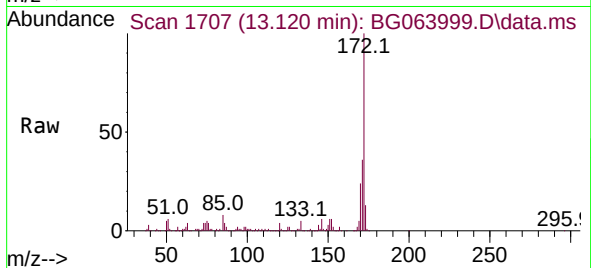
Tgt Ion:330 Resp: 179621
Ion Ratio Lower Upper
330 100
332 95.1 79.0 118.6
141 31.4 27.2 40.8





#45
2-Fluorobiphenyl
Concen: 67.429 ng
RT: 13.120 min Scan# 1707
Delta R.T. -0.003 min
Lab File: BG063999.D
Acq: 5 Feb 2025 12:51

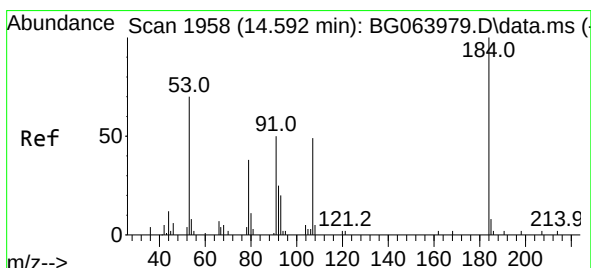
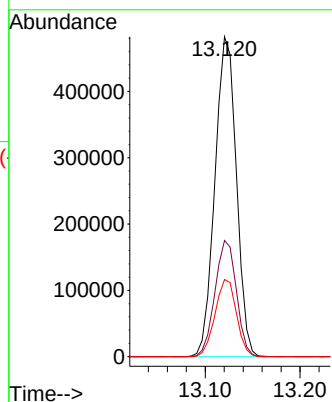
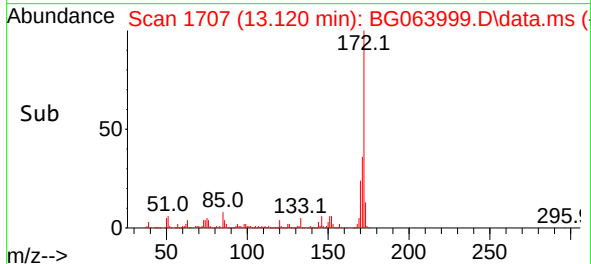
Instrument :
BNA_G
ClientSampleId :
LOQ-SOIL-02-QT1-2025



Tgt Ion:172 Resp: 757740
Ion Ratio Lower Upper
172 100
171 36.3 27.8 41.6
170 24.1 19.4 29.2

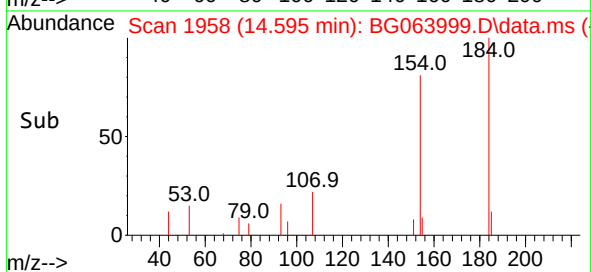
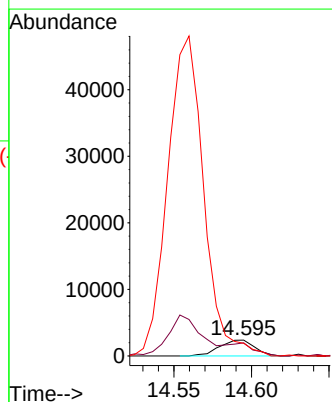
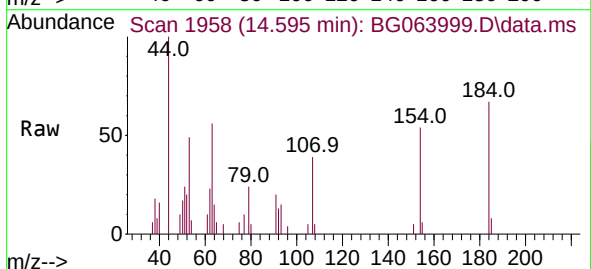
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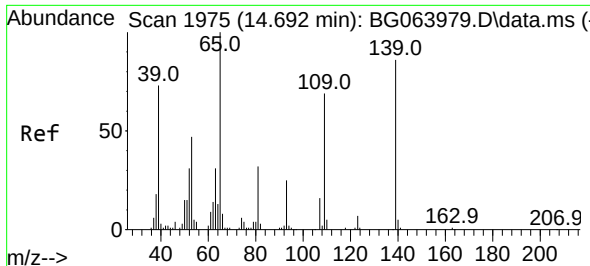
Reviewed By :Yogesh Patel 02/06/2025
Supervised By :mohammad ahmed 02/06/2025



#54
2,4-Dinitrophenol
Concen: 7.595 ng
RT: 14.595 min Scan# 1958
Delta R.T. 0.003 min
Lab File: BG063999.D
Acq: 5 Feb 2025 12:51

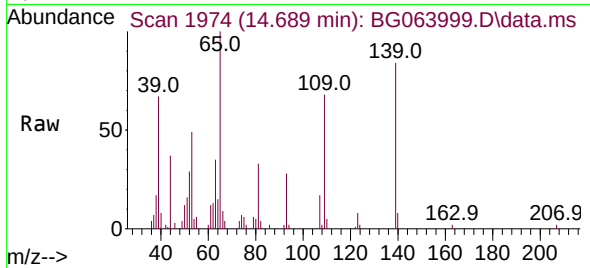
Tgt Ion:184 Resp: 3745
Ion Ratio Lower Upper
184 100
63 83.8 67.3 100.9
154 80.5 65.9 98.9





#56
4-Nitrophenol
Concen: 8.498 ng
RT: 14.689 min Scan# 1975
Delta R.T. -0.003 min
Lab File: BG063999.D
Acq: 5 Feb 2025 12:51

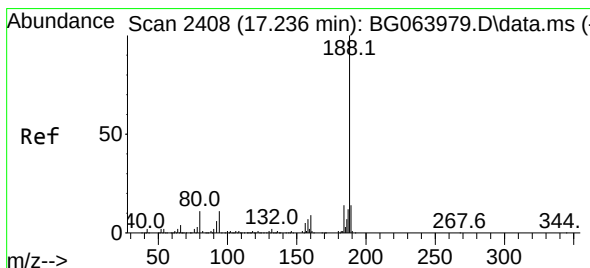
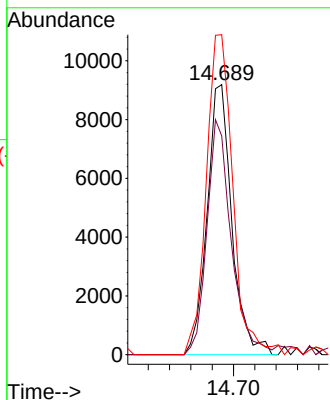
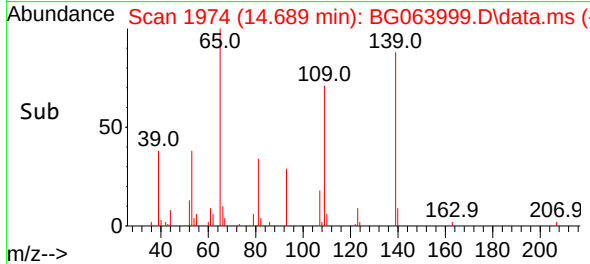
Instrument :
BNA_G
ClientSampleId :
LOQ-SOIL-02-QT1-2025



Tgt Ion:139 Resp: 1481
Ion Ratio Lower Upper
139 100
109 81.0 60.1 100.1
65 118.5 96.2 136.2

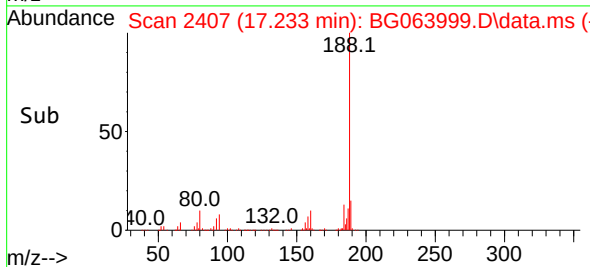
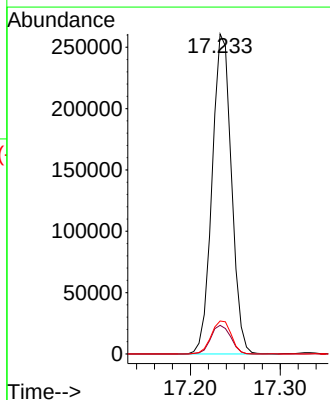
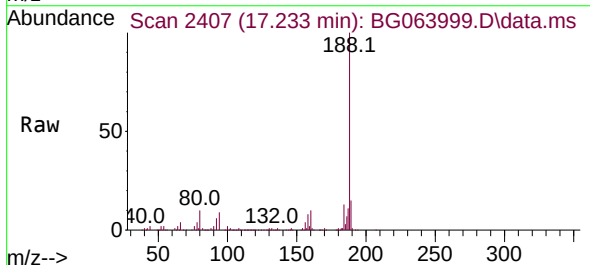
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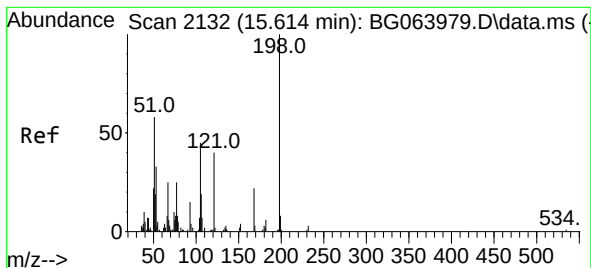
Reviewed By :Yogesh Patel 02/06/2025
Supervised By :mohammad ahmed 02/06/2025



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.233 min Scan# 2407
Delta R.T. -0.003 min
Lab File: BG063999.D
Acq: 5 Feb 2025 12:51

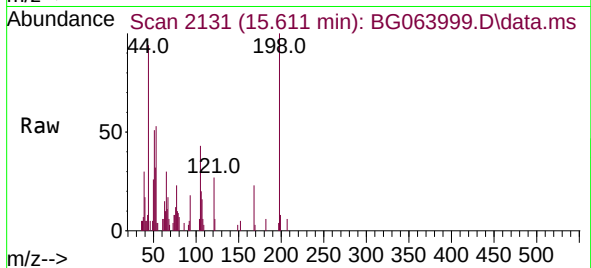
Tgt Ion:188 Resp: 389826
Ion Ratio Lower Upper
188 100
94 8.9 8.6 13.0
80 10.3 8.5 12.7





#65
4,6-Dinitro-2-methylphenol
Concen: 8.304 ng
RT: 15.611 min Scan# 2132
Delta R.T. -0.003 min
Lab File: BG063999.D
Acq: 5 Feb 2025 12:51

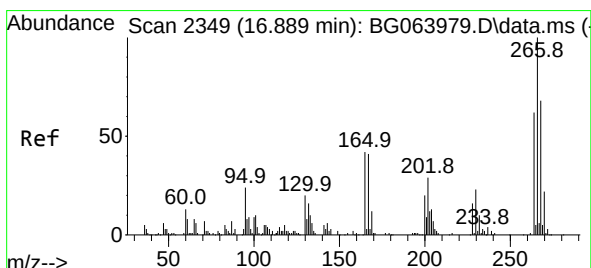
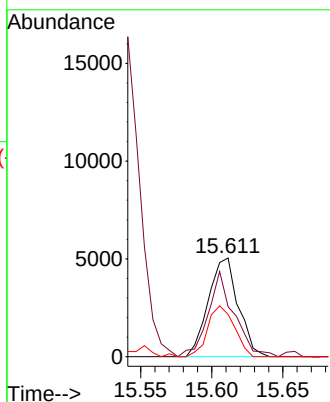
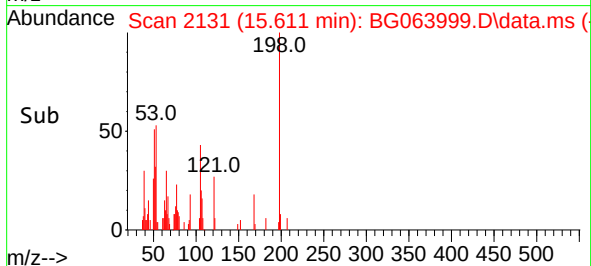
Instrument :
BNA_G
ClientSampleId :
LOQ-SOIL-02-QT1-2025



Tgt Ion:198 Resp: 7385
Ion Ratio Lower Upper
198 100
51 50.6 45.4 85.4
105 42.8 27.7 67.7

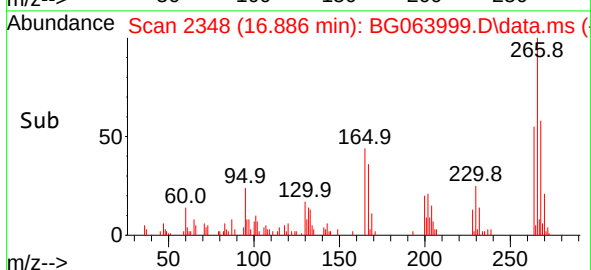
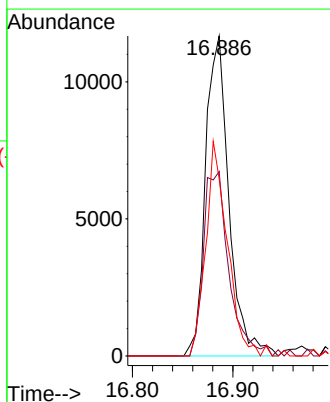
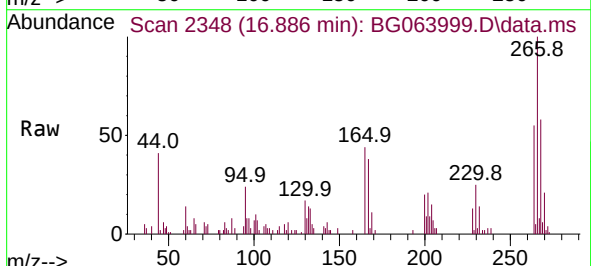
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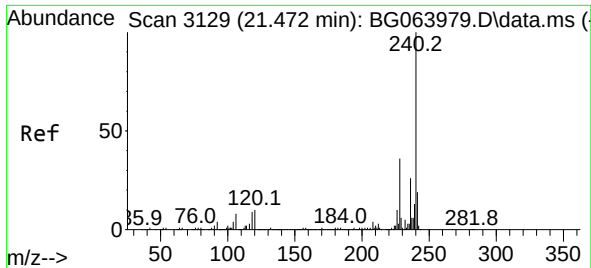
Reviewed By :Yogesh Patel 02/06/2025
Supervised By :mohammad ahmed 02/06/2025



#70
Pentachlorophenol
Concen: 8.085 ng
RT: 16.886 min Scan# 2348
Delta R.T. -0.003 min
Lab File: BG063999.D
Acq: 5 Feb 2025 12:51

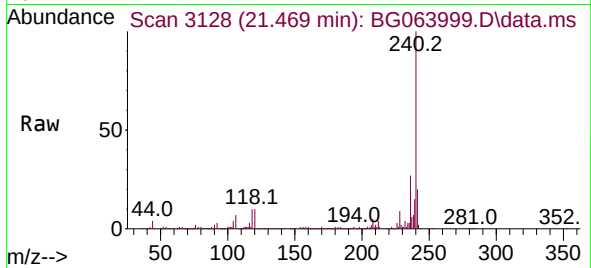
Tgt Ion:266 Resp: 18907
Ion Ratio Lower Upper
266 100
268 57.7 54.8 82.2
264 55.3 50.0 75.0





#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.469 min Scan# 3129
Delta R.T. -0.003 min
Lab File: BG063999.D
Acq: 5 Feb 2025 12:51

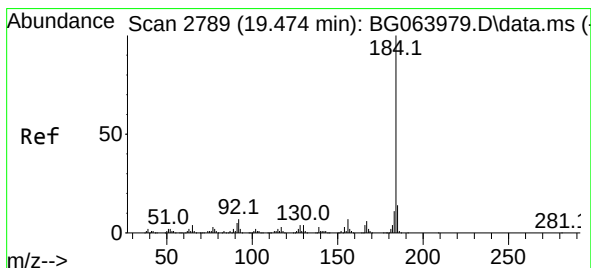
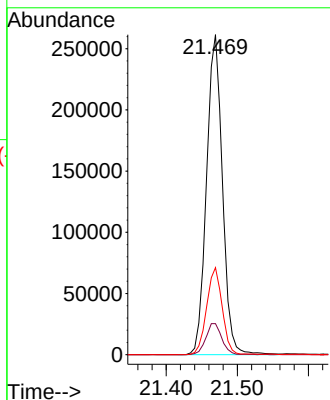
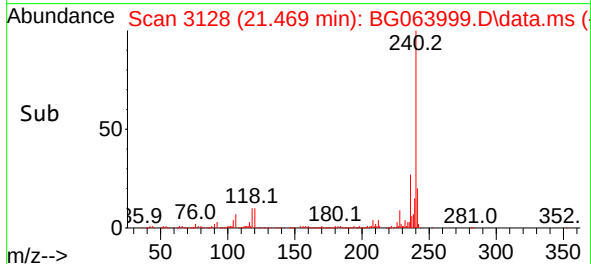
Instrument :
BNA_G
ClientSampleId :
LOQ-SOIL-02-QT1-2025



Tgt Ion:240 Resp: 40792
Ion Ratio Lower Upper
240 100
120 9.7 7.9 11.9
236 27.2 21.0 31.6

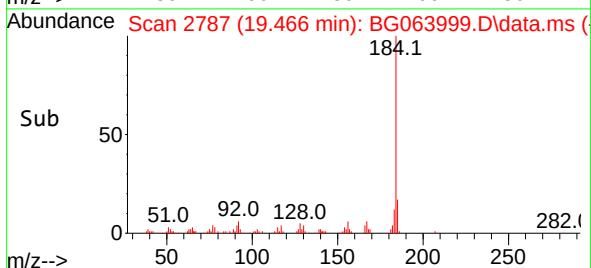
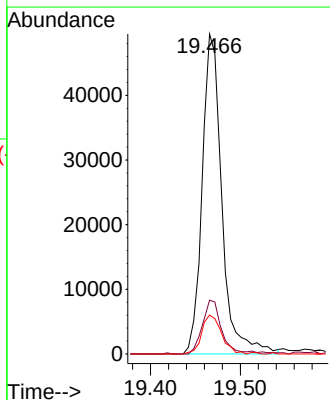
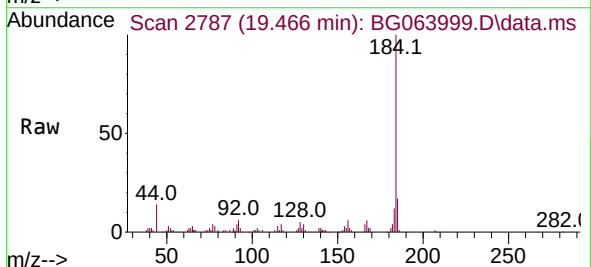
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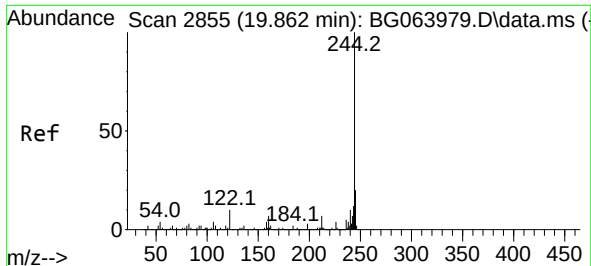
Reviewed By :Yogesh Patel 02/06/2025
Supervised By :mohammad ahmed 02/06/2025



#77
Benidine
Concen: 8.671 ng
RT: 19.466 min Scan# 2787
Delta R.T. -0.009 min
Lab File: BG063999.D
Acq: 5 Feb 2025 12:51

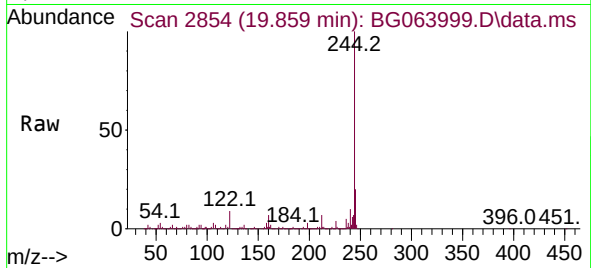
Tgt Ion:184 Resp: 75324
Ion Ratio Lower Upper
184 100
185 16.8 11.2 16.8#
183 12.1 8.7 13.1





#79
 Terphenyl-d14
 Concen: 66.832 ng
 RT: 19.859 min Scan# 21
 Delta R.T. -0.003 min
 Lab File: BG063999.D
 Acq: 5 Feb 2025 12:51

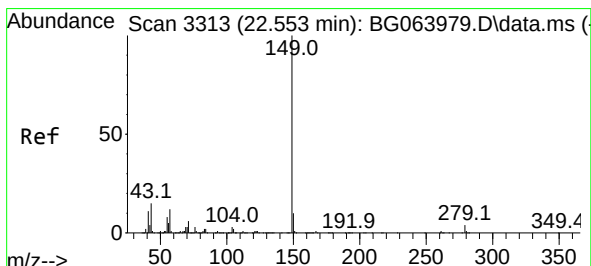
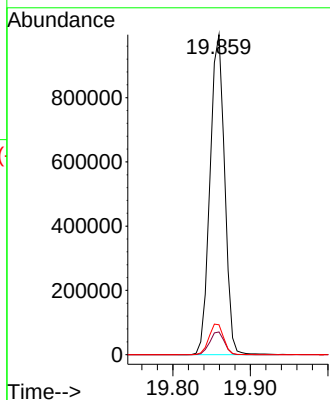
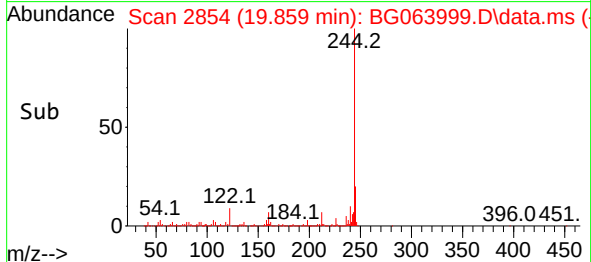
Instrument :
 BNA_G
 ClientSampleId :
 LOQ-SOIL-02-QT1-2025



Tgt Ion:244 Resp: 1305374
 Ion Ratio Lower Upper
 244 100
 212 7.1 5.8 8.8
 122 9.4 7.7 11.5

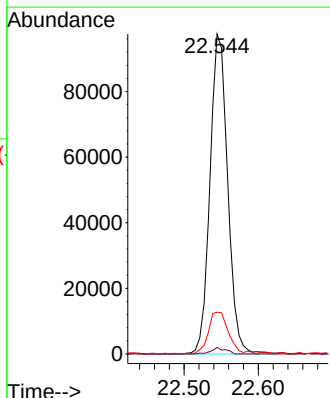
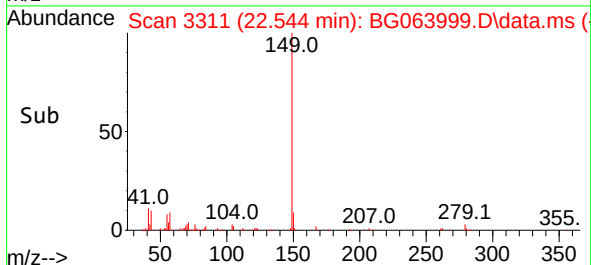
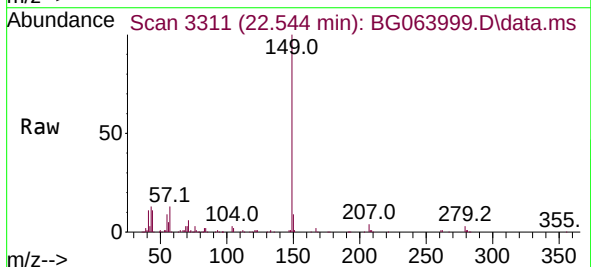
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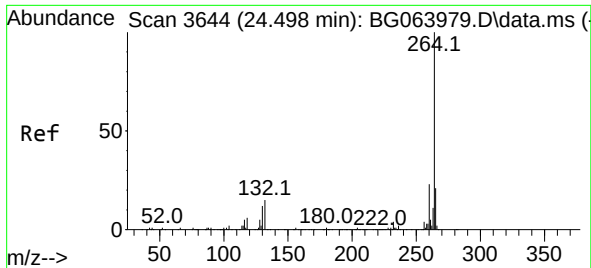
Reviewed By :Yogesh Patel 02/06/2025
 Supervised By :mohammad ahmed 02/06/2025



#85
 Di-n-octyl phthalate
 Concen: 12.936 ng
 RT: 22.544 min Scan# 3311
 Delta R.T. -0.009 min
 Lab File: BG063999.D
 Acq: 5 Feb 2025 12:51

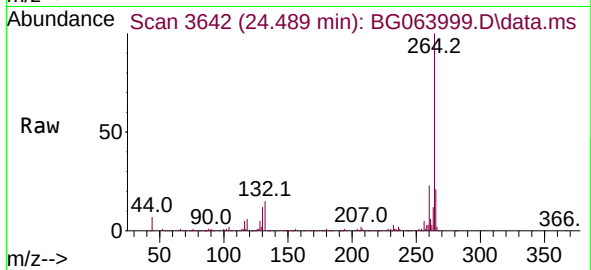
Tgt Ion:149 Resp: 161742
 Ion Ratio Lower Upper
 149 100
 167 1.6 1.2 1.8
 43 14.9 12.3 18.5





#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 24.489 min Scan# 30
 Delta R.T. -0.009 min
 Lab File: BG063999.D
 Acq: 5 Feb 2025 12:51

Instrument :
 BNA_G
 ClientSampleId :
 LOQ-SOIL-02-QT1-2025



Tgt Ion:264 Resp: 42586
 Ion Ratio Lower Upper
 264 100
 260 22.9 18.7 28.1
 265 20.8 16.6 24.8

Manual Integrations
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Reviewed By :Yogesh Patel 02/06/2025
 Supervised By :mohammad ahmed 02/06/2025

