

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG040125\
 Data File : BG064145.D
 Acq On : 1 Apr 2025 21:46
 Operator : RC/JU
 Sample : Q1687-01
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 72-12016

Manual Integrations
 APPROVED

Reviewed By :Anahy Claudio 04/02/2025
 Supervised By :Jagrut Upadhyay 04/02/2025

Quant Time: Apr 02 01:36:58 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Mar 05 15:39:19 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.861	152	40150	20.000	ng	0.00
21) Naphthalene-d8	10.646	136	167173	20.000	ng	0.00
39) Acenaphthene-d10	14.483	164	116127	20.000	ng	0.00
64) Phenanthrene-d10	17.221	188	258513	20.000	ng	0.00
76) Chrysene-d12	21.451	240	266087	20.000	ng	0.00
86) Perylene-d12	24.465	264	287978	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.452	112	358833	139.551	ng	0.00
7) Phenol-d6	7.027	99	471882	134.900	ng	0.00
23) Nitrobenzene-d5	9.013	82	315807	104.395	ng	0.00
42) 2,4,6-Tribromophenol	15.969	330	214580	166.234	ng	0.00
45) 2-Fluorobiphenyl	13.108	172	679370	88.800	ng	0.00
79) Terphenyl-d14	19.841	244	1086377	82.554	ng	0.00
Target Compounds						Qvalue
55) Dibenzofuran	14.876	168	22532	2.048	ng	95
58) Fluorene	15.529	166	26586	3.102	ng	# 95
70) Pentachlorophenol	16.868	266	8520	4.629	ng	93
71) Phenanthrene	17.262	178	390492	28.320	ng	99
72) Anthracene	17.356	178	140037	10.214	ng	98
73) Carbazole	17.620	167	72990	5.702	ng	99
75) Fluoranthene	19.277	202	562485	33.838	ng	97
78) Pyrene	19.635	202	796723	46.449	ng	98
81) Benzo(a)anthracene	21.433	228	241486	14.168	ng	99
83) Chrysene	21.498	228	328555m	19.327	ng	
87) Indeno(1,2,3-cd)pyrene	27.844	276	59862	3.107	ng	95
88) Benzo(b)fluoranthene	23.513	252	233688	13.423	ng	98
89) Benzo(k)fluoranthene	23.566	252	84378m	4.831	ng	
90) Benzo(a)pyrene	24.324	252	118747	7.659	ng	95
92) Benzo(g,h,i)perylene	28.895	276	60769	3.705	ng	94

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

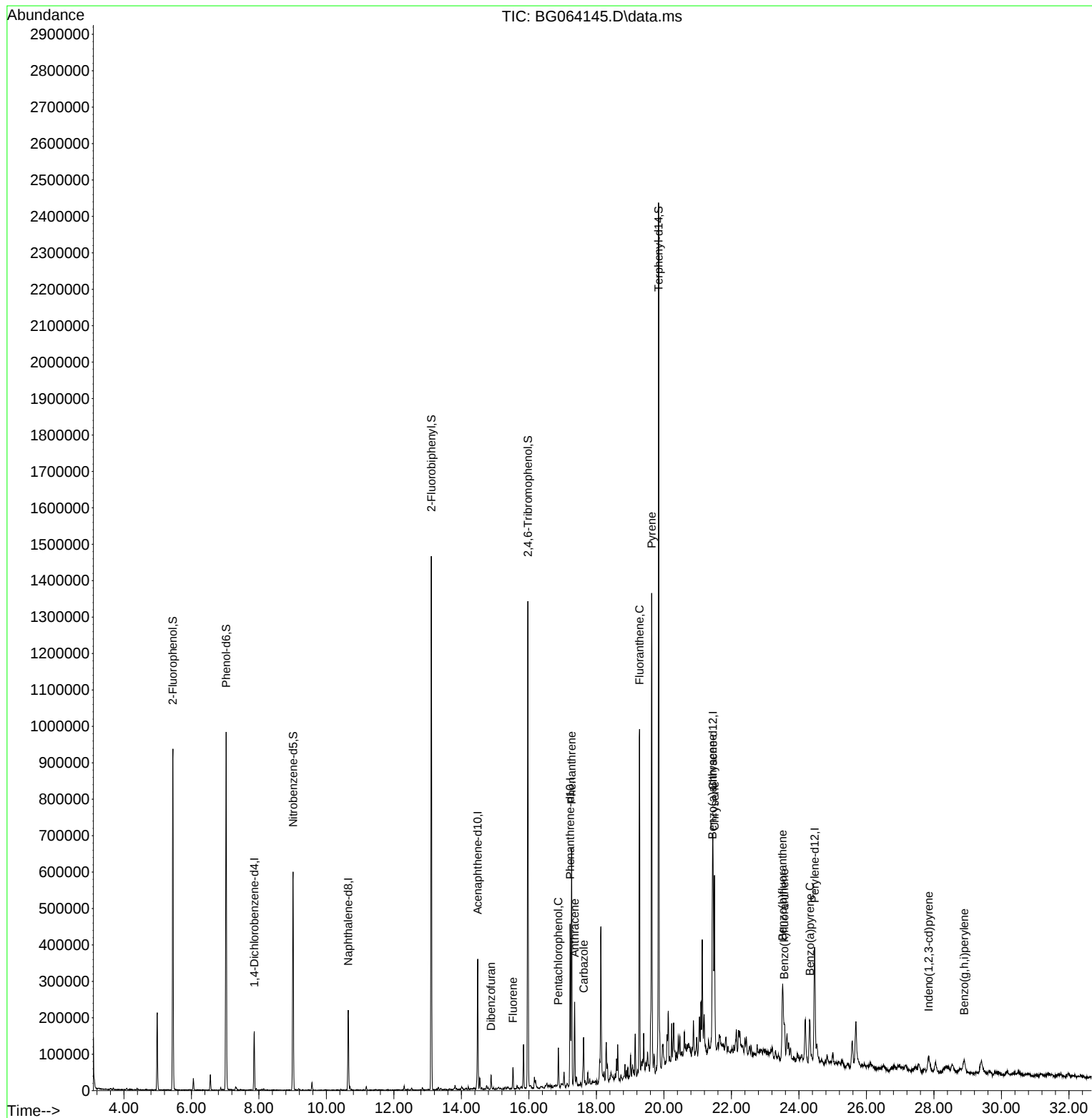
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG040125\
Data File : BG064145.D
Acq On : 1 Apr 2025 21:46
Operator : RC/JU
Sample : Q1687-01
Misc :
ALS Vial : 17 Sample Multiplier: 1

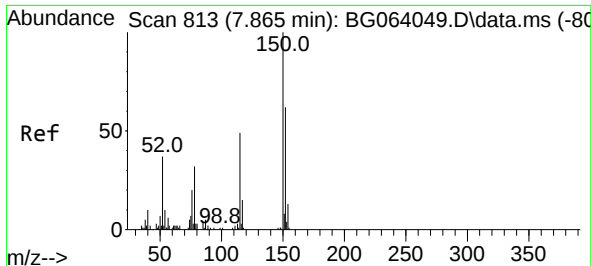
Instrument :
BNA_G
ClientSampleId :
72-12016

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

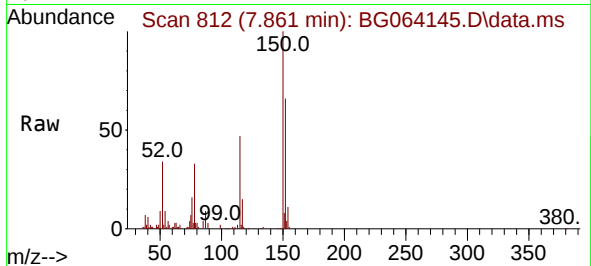
Quant Time: Apr 02 01:36:58 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 15:39:19 2025
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.861 min Scan# 813
Delta R.T. -0.004 min
Lab File: BG064145.D
Acq: 1 Apr 2025 21:46

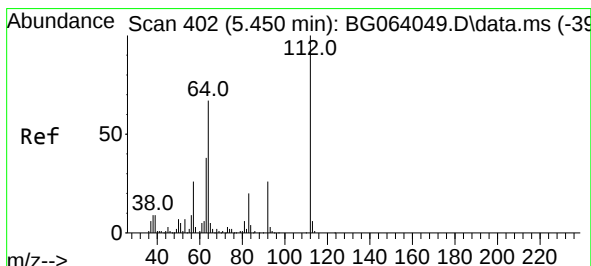
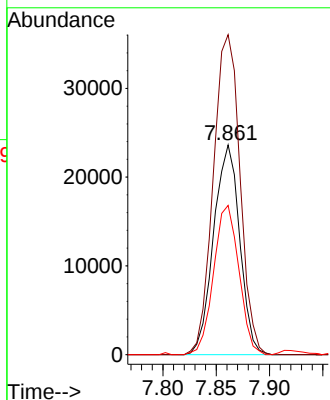
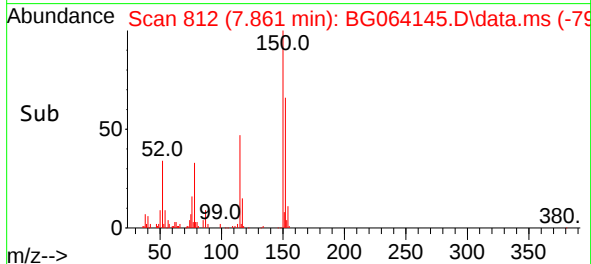
Instrument :
BNA_G
ClientSampleId :
72-12016



Tgt Ion:152 Resp: 40150
Ion Ratio Lower Upper
152 100
150 152.6 129.2 193.8
115 71.2 63.0 94.6

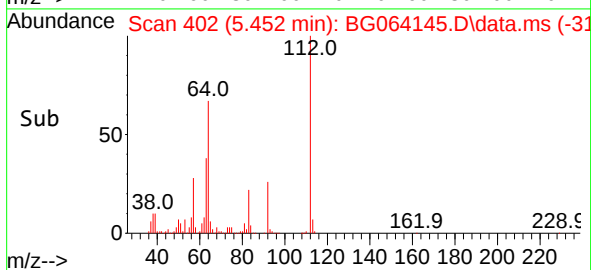
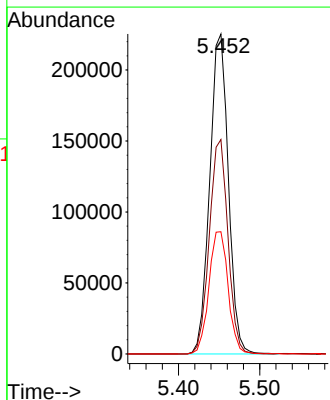
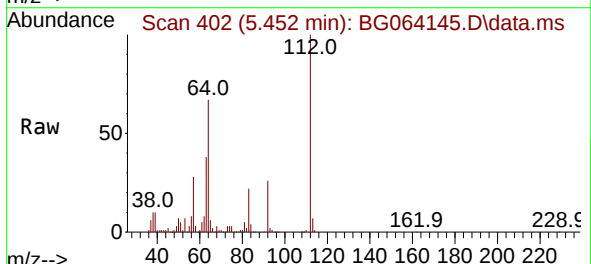
Manual Integrations
APPROVED

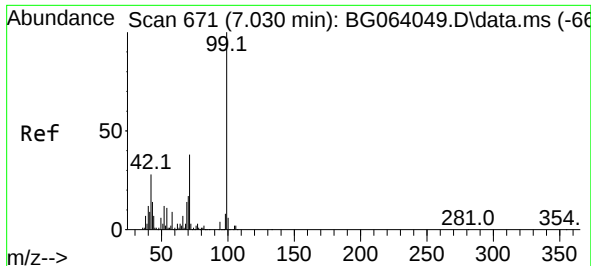
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025



#5
2-Fluorophenol
Concen: 139.551 ng
RT: 5.452 min Scan# 402
Delta R.T. 0.002 min
Lab File: BG064145.D
Acq: 1 Apr 2025 21:46

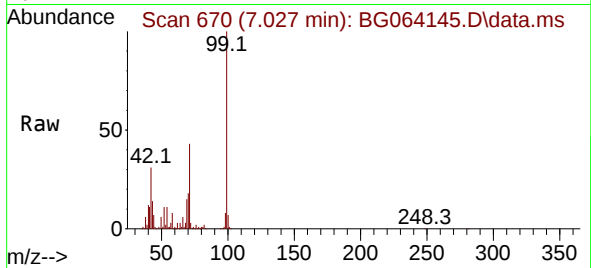
Tgt Ion:112 Resp: 358833
Ion Ratio Lower Upper
112 100
64 67.0 53.7 80.5
63 38.2 30.2 45.4





#7
Phenol-d6
Concen: 134.900 ng
RT: 7.027 min Scan# 61
Delta R.T. -0.004 min
Lab File: BG064145.D
Acq: 1 Apr 2025 21:46

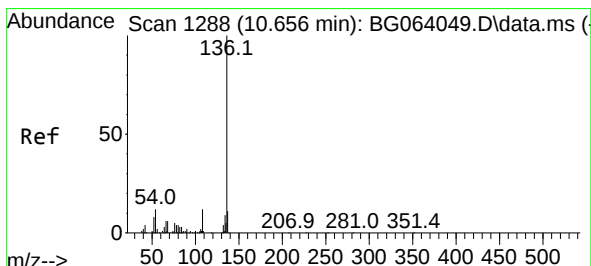
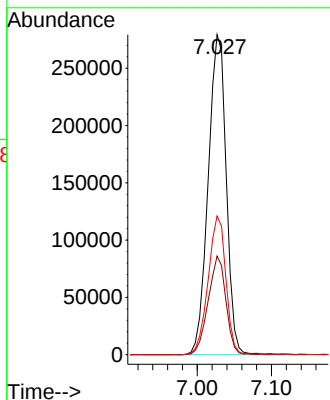
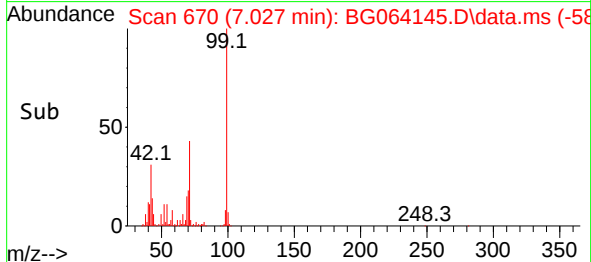
Instrument :
BNA_G
ClientSampleId :
72-12016



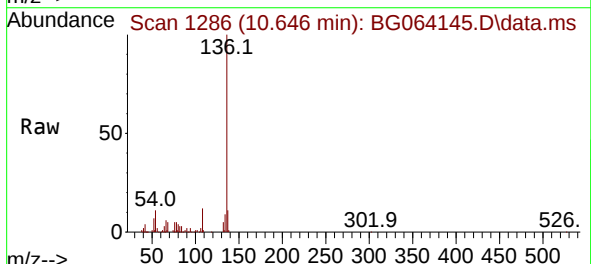
Tgt Ion: 99 Resp: 47188
Ion Ratio Lower Upper
99 100
42 30.9 22.7 34.1
71 43.3 30.6 46.0

Manual Integrations
APPROVED

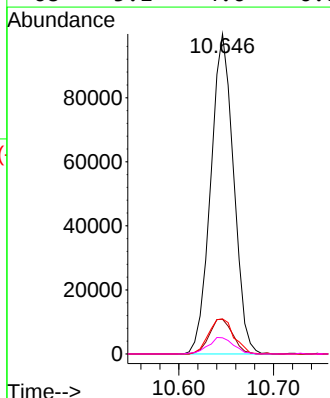
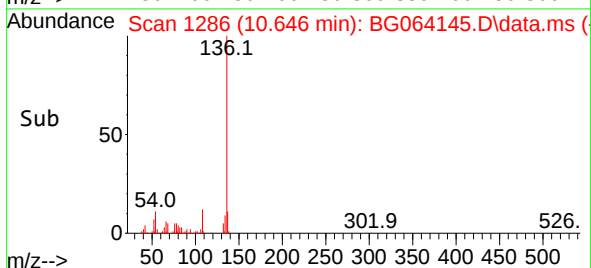
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

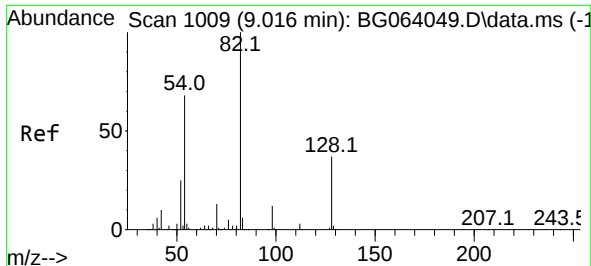


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.646 min Scan# 1286
Delta R.T. -0.010 min
Lab File: BG064145.D
Acq: 1 Apr 2025 21:46



Tgt Ion:136 Resp: 167173
Ion Ratio Lower Upper
136 100
137 10.8 8.5 12.7
54 11.0 9.9 14.9
68 5.1 4.6 6.8





#23
Nitrobenzene-d5
Concen: 104.395 ng
RT: 9.013 min Scan# 1008
Delta R.T. -0.004 min
Lab File: BG064145.D
Acq: 1 Apr 2025 21:46

Instrument :

BNA_G

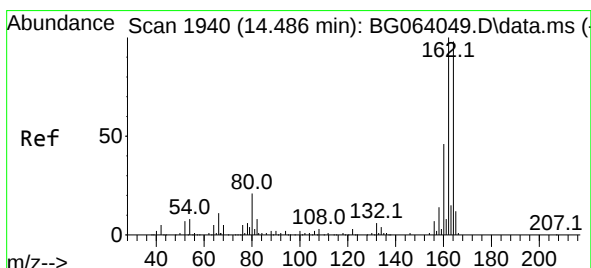
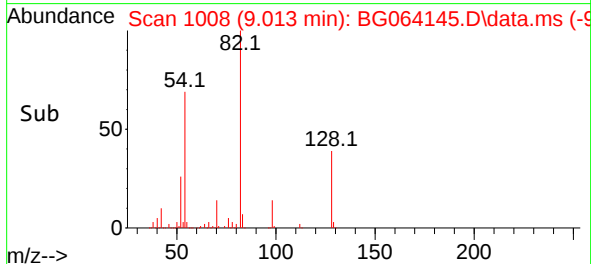
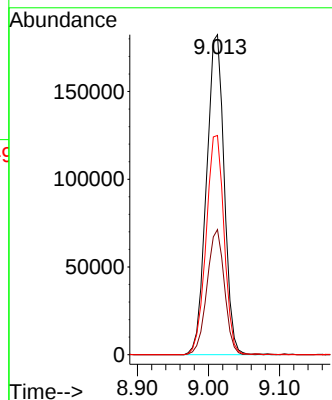
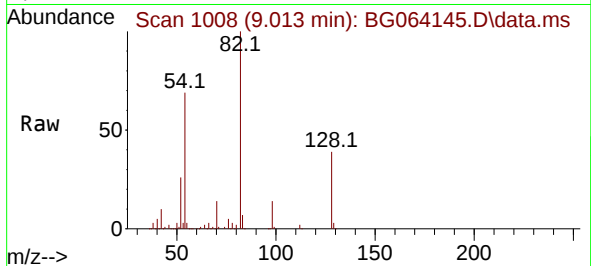
ClientSampleId :

72-12016

Tgt Ion: 82 Resp: 31580
Ion Ratio Lower Upper
82 100
128 39.1 30.0 45.0
54 68.5 54.7 82.1

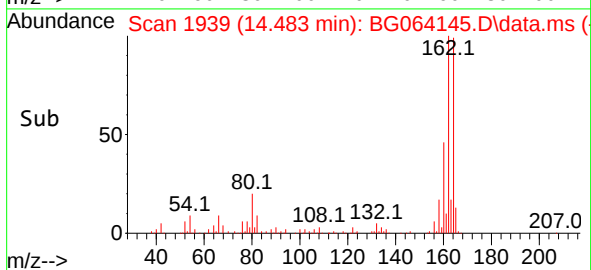
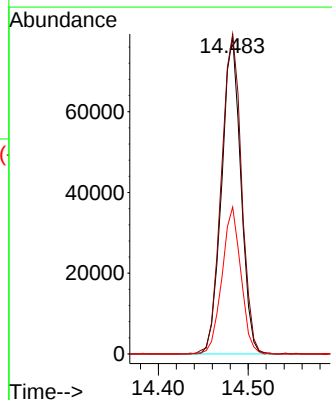
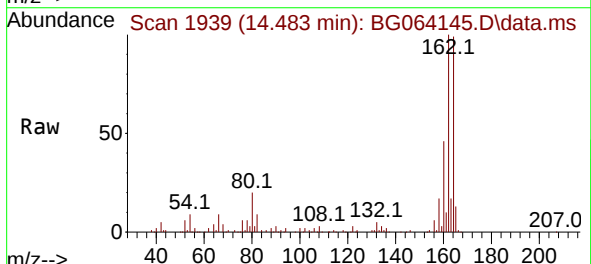
Manual Integrations
APPROVED

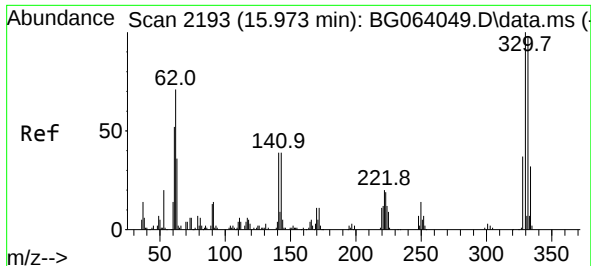
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.483 min Scan# 1939
Delta R.T. -0.003 min
Lab File: BG064145.D
Acq: 1 Apr 2025 21:46

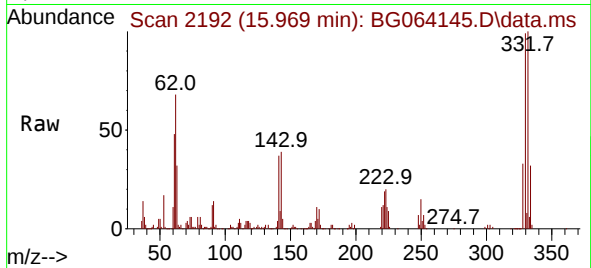
Tgt Ion:164 Resp: 116127
Ion Ratio Lower Upper
164 100
162 100.9 81.4 122.0
160 46.3 37.0 55.6





#42
2,4,6-Tribromophenol
Concen: 166.234 ng
RT: 15.969 min Scan# 2193
Delta R.T. -0.004 min
Lab File: BG064145.D
Acq: 1 Apr 2025 21:46

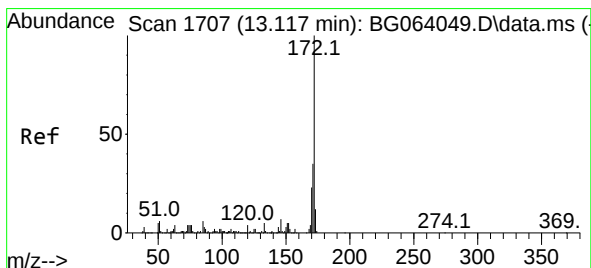
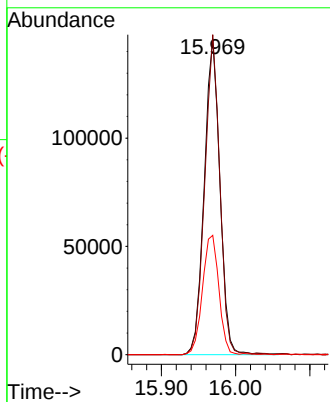
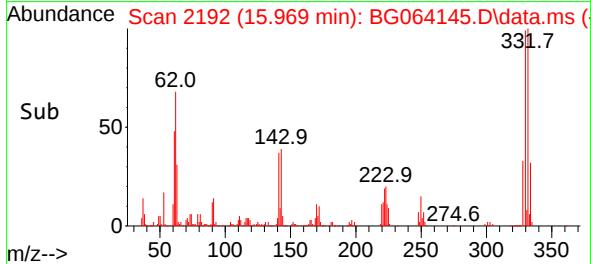
Instrument :
BNA_G
ClientSampleId :
72-12016



Tgt Ion:330 Resp: 214580
Ion Ratio Lower Upper
330 100
332 96.8 76.7 115.1
141 39.7 29.7 44.5

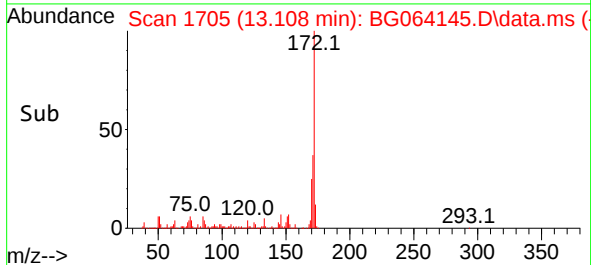
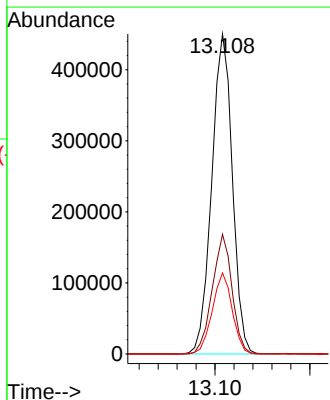
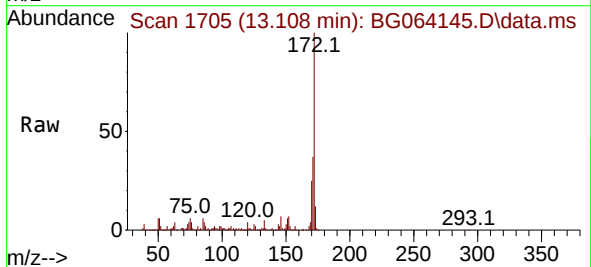
Manual Integrations
APPROVED

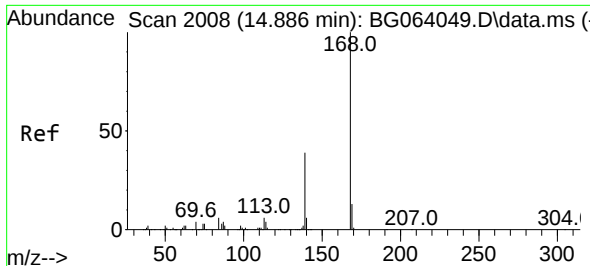
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025



#45
2-Fluorobiphenyl
Concen: 88.800 ng
RT: 13.108 min Scan# 1705
Delta R.T. -0.010 min
Lab File: BG064145.D
Acq: 1 Apr 2025 21:46

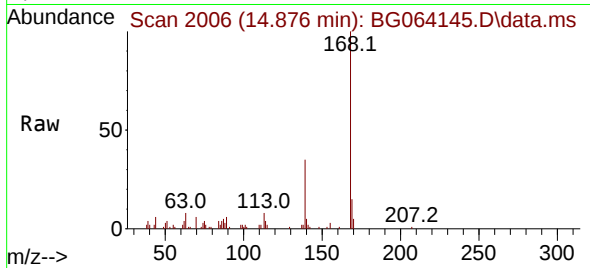
Tgt Ion:172 Resp: 679370
Ion Ratio Lower Upper
172 100
171 37.4 28.0 42.0
170 25.3 18.7 28.1





#55
Dibenzenofuran
Concen: 2.048 ng
RT: 14.876 min Scan# 2008
Delta R.T. -0.010 min
Lab File: BG064145.D
Acq: 1 Apr 2025 21:46

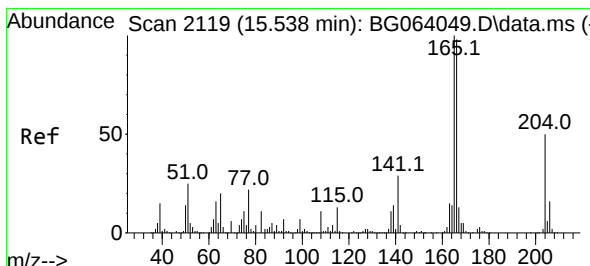
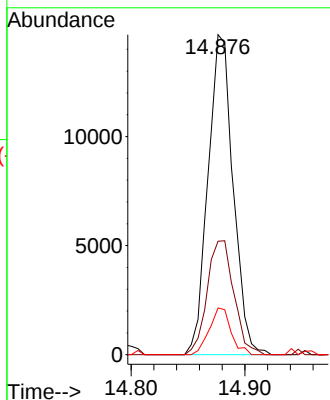
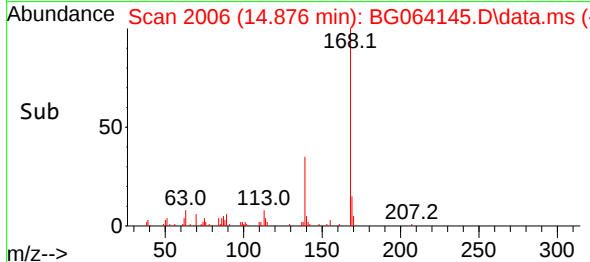
Instrument :
BNA_G
ClientSampleId :
72-12016



Tgt Ion:168 Resp: 22532
Ion Ratio Lower Upper
168 100
139 35.5 31.1 46.7
169 14.6 10.5 15.7

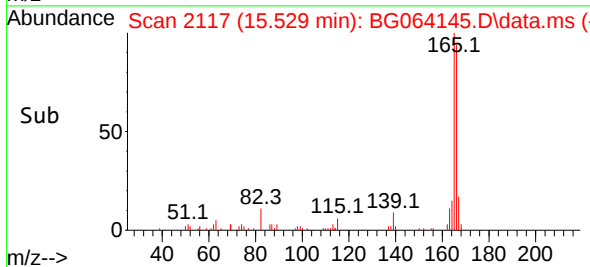
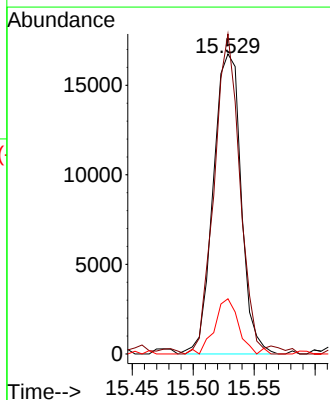
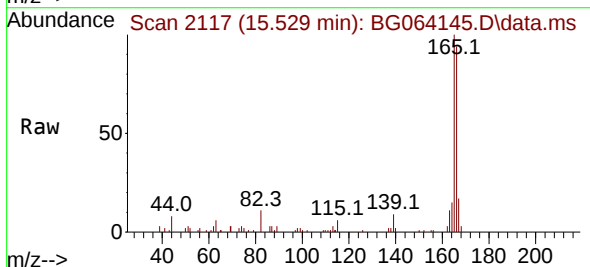
Manual Integrations
APPROVED

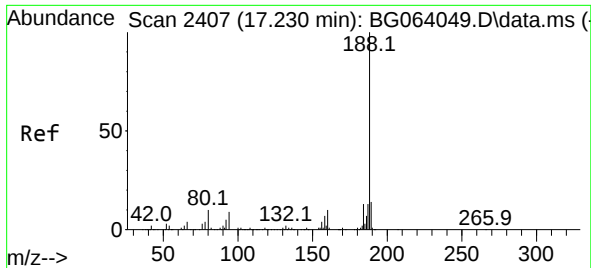
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025



#58
Fluorene
Concen: 3.102 ng
RT: 15.529 min Scan# 2117
Delta R.T. -0.010 min
Lab File: BG064145.D
Acq: 1 Apr 2025 21:46

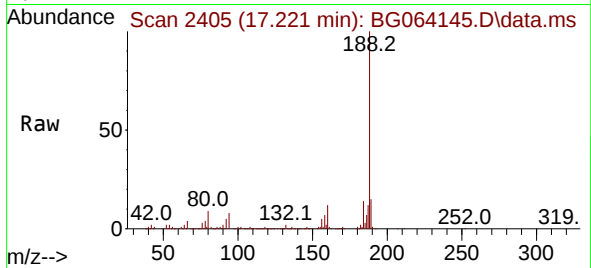
Tgt Ion:166 Resp: 26586
Ion Ratio Lower Upper
166 100
165 106.6 81.8 122.8
167 18.4 10.8 16.2#





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.221 min Scan# 2405
Delta R.T. -0.009 min
Lab File: BG064145.D
Acq: 1 Apr 2025 21:46

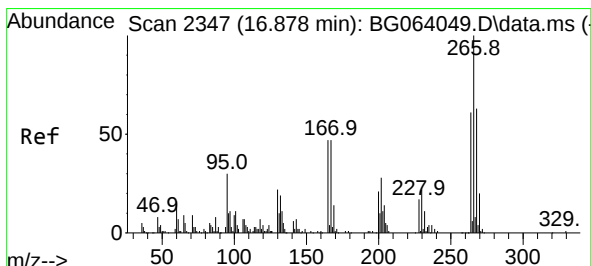
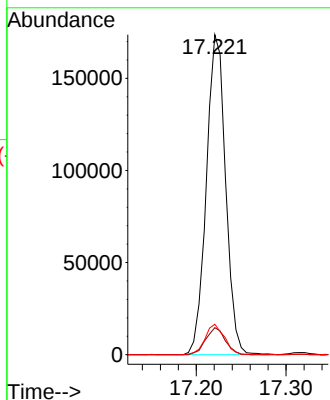
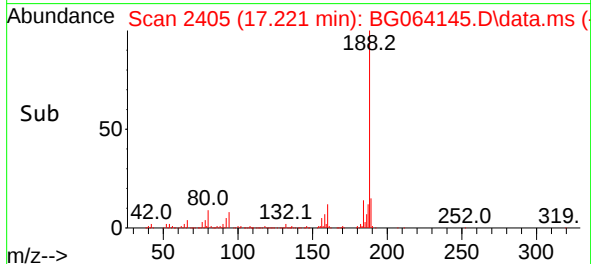
Instrument :
BNA_G
ClientSampleId :
72-12016



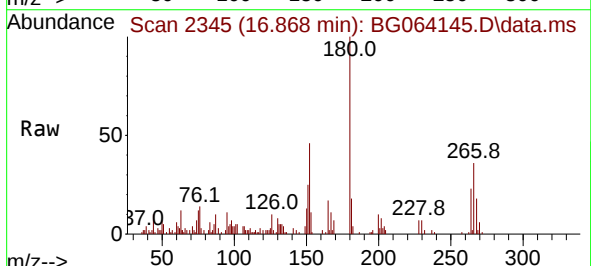
Tgt Ion:188 Resp: 25851
Ion Ratio Lower Upper
188 100
94 8.5 6.9 10.3
80 9.5 8.1 12.1

Manual Integrations
APPROVED

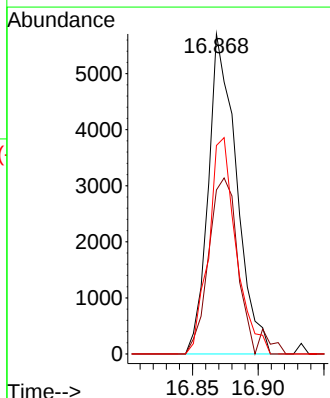
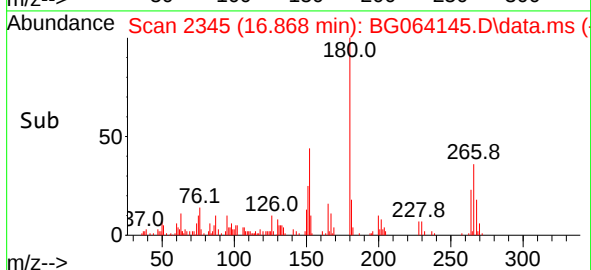
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

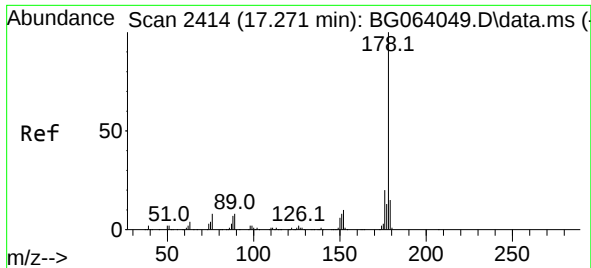


#70
Pentachlorophenol
Concen: 4.629 ng
RT: 16.868 min Scan# 2345
Delta R.T. -0.010 min
Lab File: BG064145.D
Acq: 1 Apr 2025 21:46



Tgt Ion:266 Resp: 8520
Ion Ratio Lower Upper
266 100
268 56.4 50.2 75.4
264 65.2 48.9 73.3





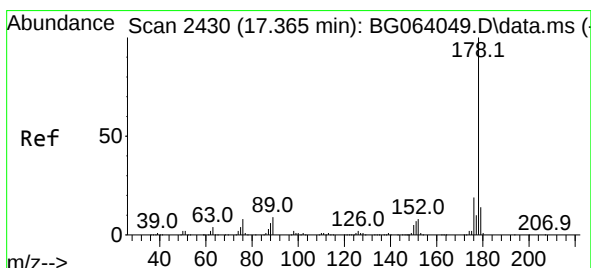
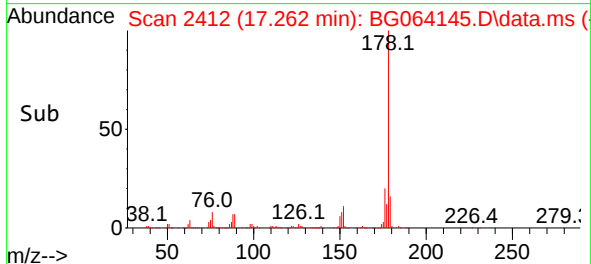
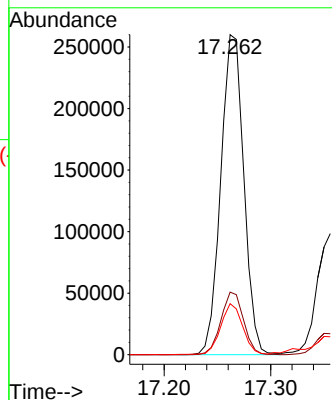
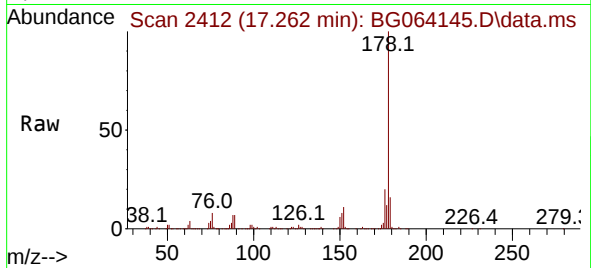
#71
Phenanthrene
Concen: 28.320 ng
RT: 17.262 min Scan# 2414
Delta R.T. -0.010 min
Lab File: BG064145.D
Acq: 1 Apr 2025 21:46

Instrument :
BNA_G
ClientSampleId :
72-12016

Tgt Ion:178 Resp: 390492
Ion Ratio Lower Upper
178 100
176 19.6 15.9 23.9
179 16.0 12.2 18.2

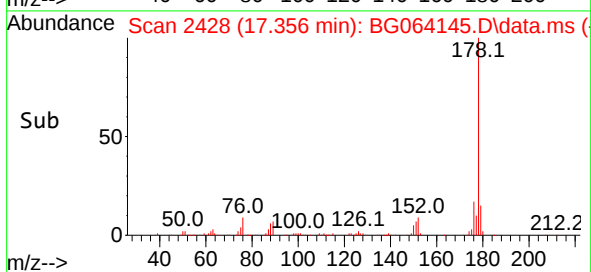
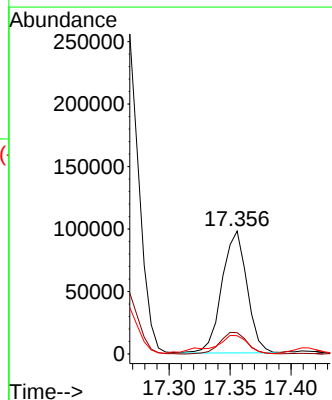
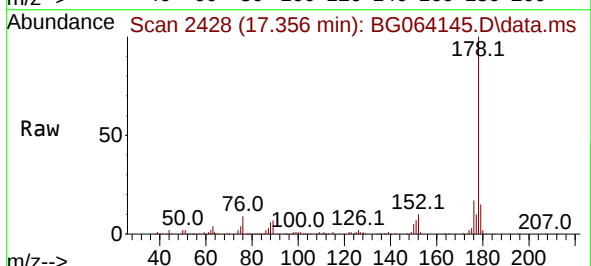
Manual Integrations
APPROVED

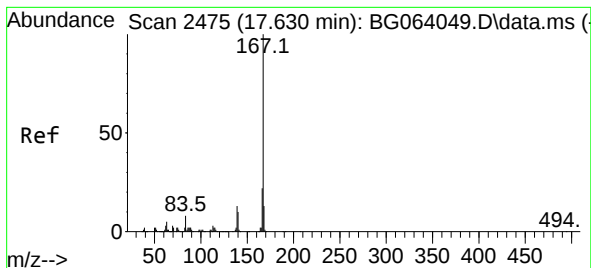
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025



#72
Anthracene
Concen: 10.214 ng
RT: 17.356 min Scan# 2428
Delta R.T. -0.010 min
Lab File: BG064145.D
Acq: 1 Apr 2025 21:46

Tgt Ion:178 Resp: 140037
Ion Ratio Lower Upper
178 100
176 17.3 14.8 22.2
179 14.8 11.5 17.3





#73

Carbazole

Concen: 5.702 ng

RT: 17.620 min Scan# 2475

Delta R.T. -0.010 min

Lab File: BG064145.D

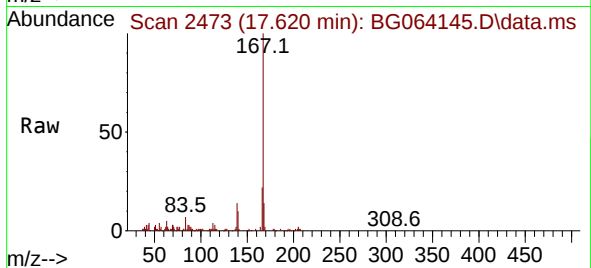
Acq: 1 Apr 2025 21:46

Instrument :

BNA_G

ClientSampleId :

72-12016



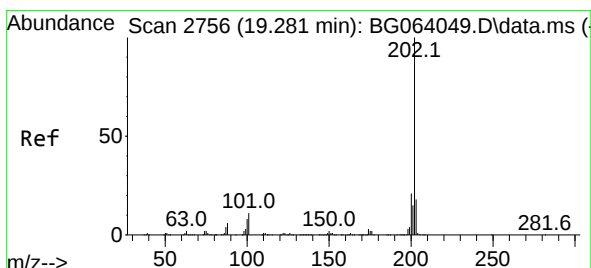
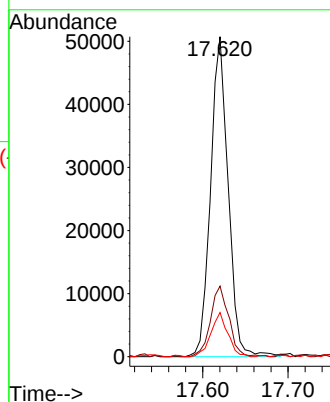
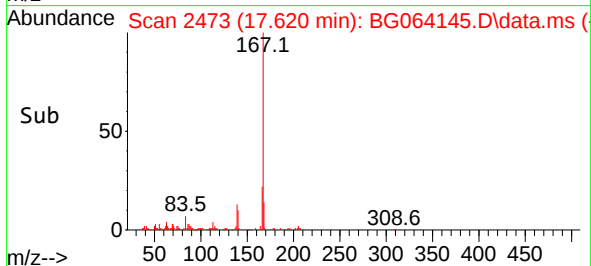
Tgt Ion:	167	Resp:	72990
Ion Ratio	Lower	Upper	
167	100		
166	22.0	18.0	27.0
139	13.8	10.6	15.8

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 04/02/2025

Supervised By :Jagrut Upadhyay 04/02/2025



#75

Fluoranthene

Concen: 33.838 ng

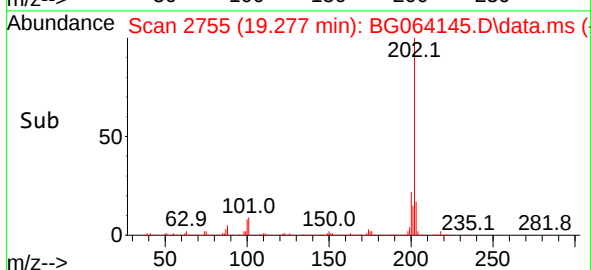
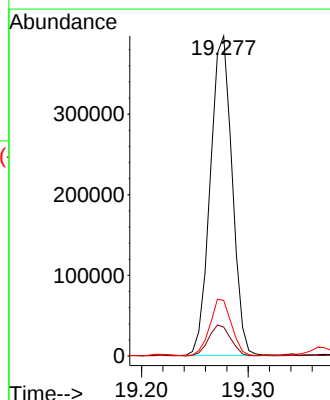
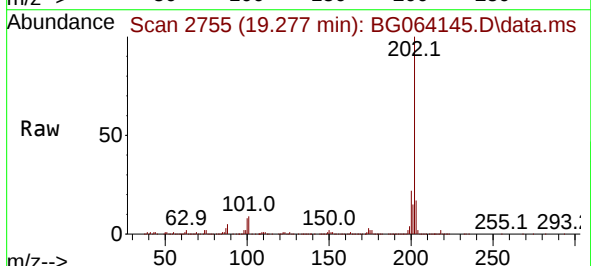
RT: 19.277 min Scan# 2755

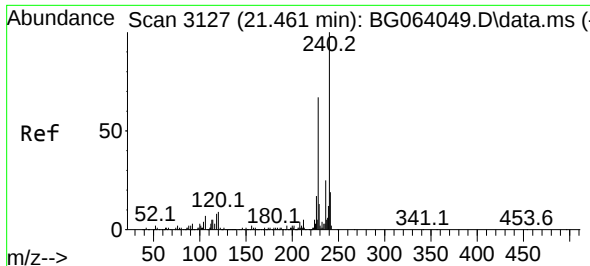
Delta R.T. -0.004 min

Lab File: BG064145.D

Acq: 1 Apr 2025 21:46

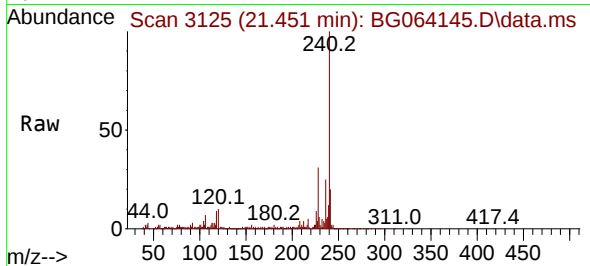
Tgt Ion:	202	Resp:	562485
Ion Ratio	Lower	Upper	
202	100		
101	9.0	0.0	30.5
203	17.4	0.0	38.3





#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.451 min Scan# 3127
Delta R.T. -0.010 min
Lab File: BG064145.D
Acq: 1 Apr 2025 21:46

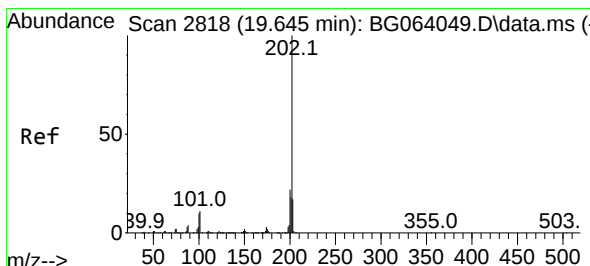
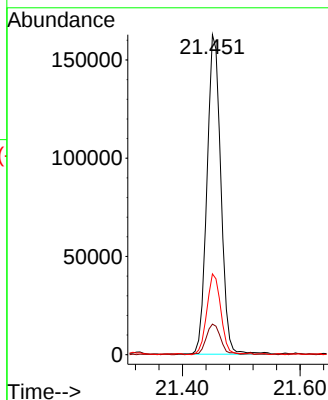
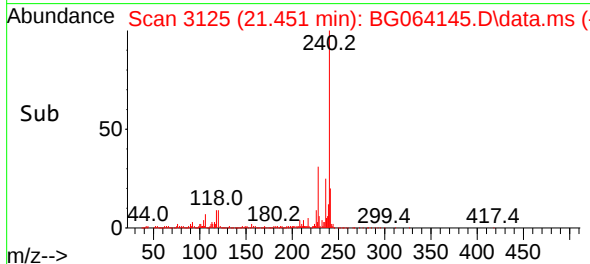
Instrument :
BNA_G
ClientSampleId :
72-12016



Tgt Ion:240 Resp: 26608
Ion Ratio Lower Upper
240 100
120 9.5 7.2 10.8
236 25.3 20.2 30.2

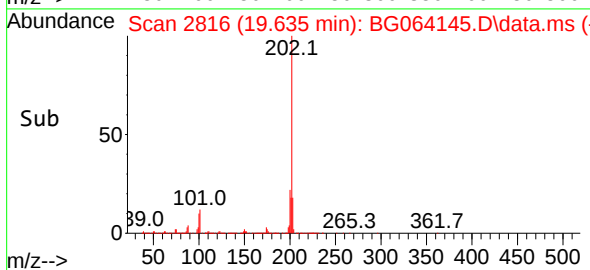
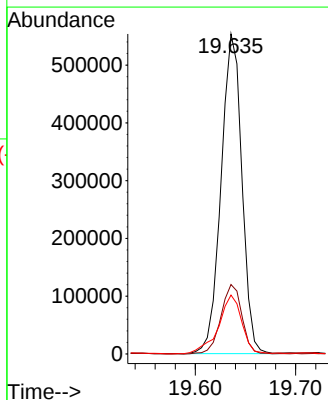
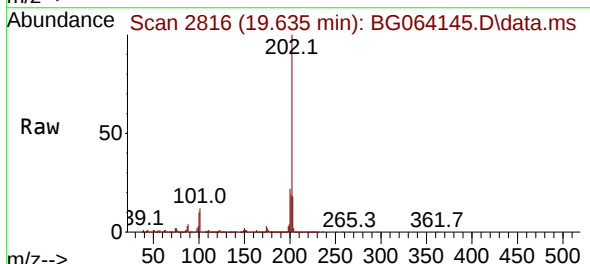
Manual Integrations
APPROVED

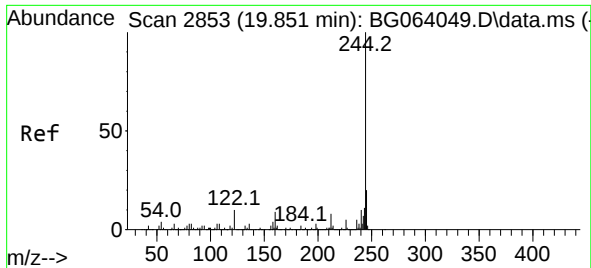
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025



#78
Pyrene
Concen: 46.449 ng
RT: 19.635 min Scan# 2816
Delta R.T. -0.010 min
Lab File: BG064145.D
Acq: 1 Apr 2025 21:46

Tgt Ion:202 Resp: 796723
Ion Ratio Lower Upper
202 100
200 21.7 17.3 25.9
203 18.4 13.6 20.4





#79
 Terphenyl-d14
 Concen: 82.554 ng
 RT: 19.841 min Scan# 21
 Delta R.T. -0.010 min
 Lab File: BG064145.D
 Acq: 1 Apr 2025 21:46

Instrument :

BNA_G

ClientSampleId :

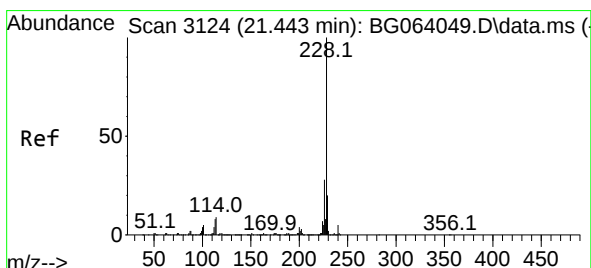
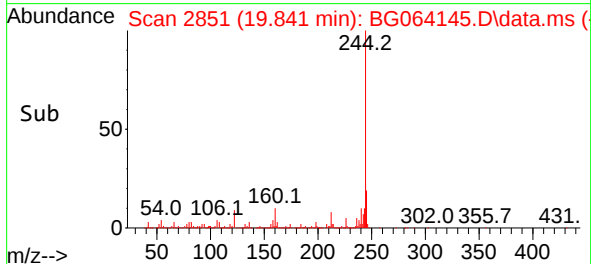
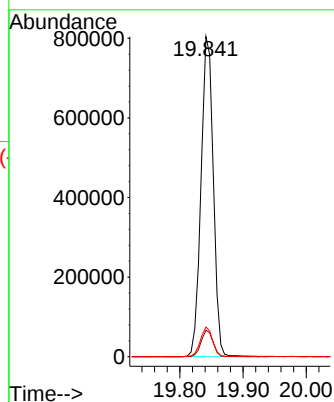
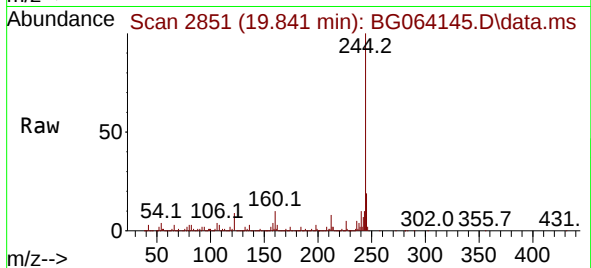
72-12016

Tgt Ion:244 Resp: 108637
 Ion Ratio Lower Upper
 244 100
 212 8.3 6.2 9.4
 122 9.3 8.0 12.0

Manual Integrations

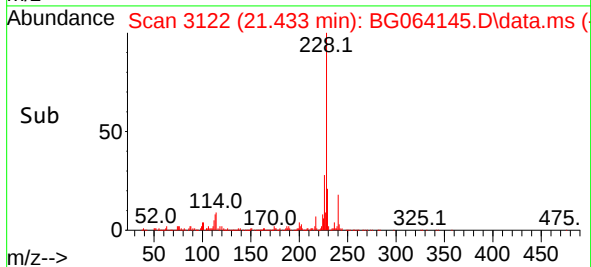
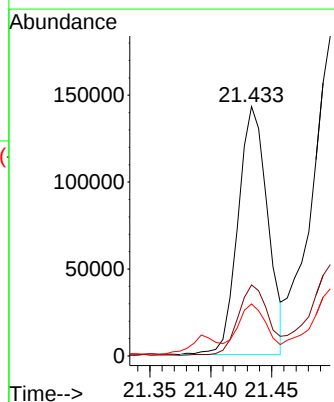
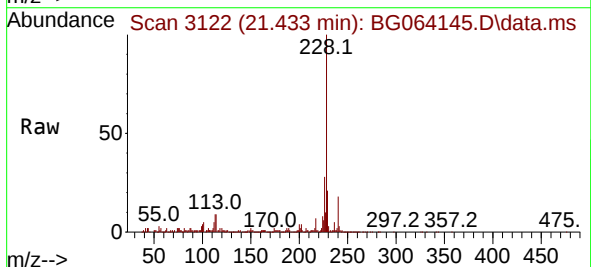
APPROVED

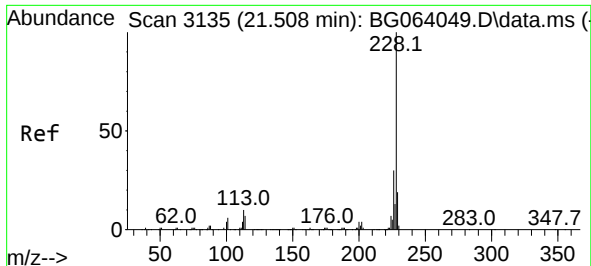
Reviewed By :Anahy Claudio 04/02/2025
 Supervised By :Jagrut Upadhyay 04/02/2025



#81
 Benzo(a)anthracene
 Concen: 14.168 ng
 RT: 21.433 min Scan# 3122
 Delta R.T. -0.010 min
 Lab File: BG064145.D
 Acq: 1 Apr 2025 21:46

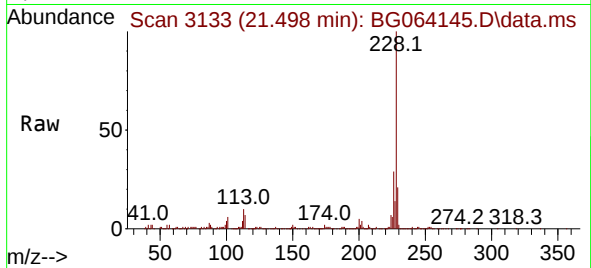
Tgt Ion:228 Resp: 241486
 Ion Ratio Lower Upper
 228 100
 226 28.5 22.2 33.2
 229 20.8 16.4 24.6





#83
Chrysene
Concen: 19.327 ng m
RT: 21.498 min Scan# 3135
Delta R.T. -0.010 min
Lab File: BG064145.D
Acq: 1 Apr 2025 21:46

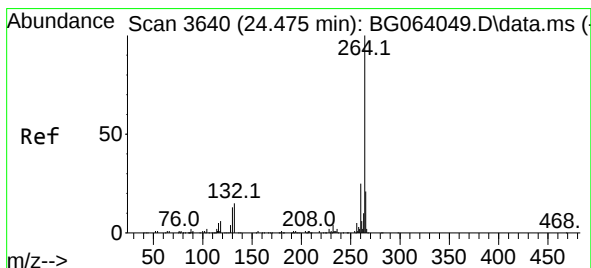
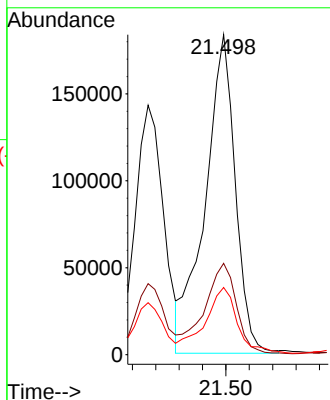
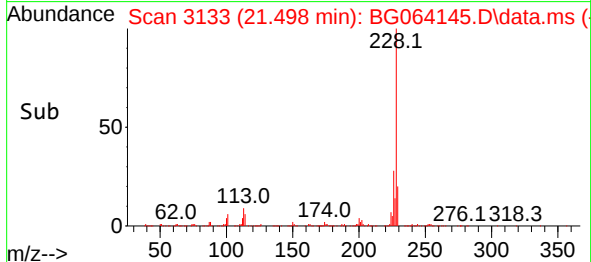
Instrument :
BNA_G
ClientSampleId :
72-12016



Tgt Ion:228 Resp: 32855
Ion Ratio Lower Upper
228 100
226 28.5 23.9 35.9
229 21.0 15.3 22.9

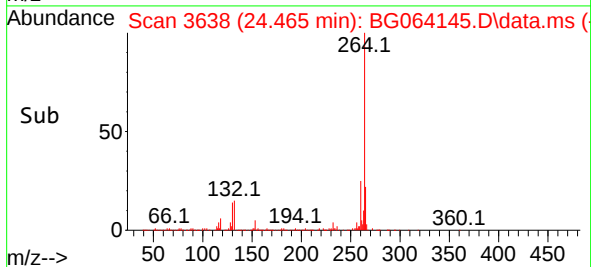
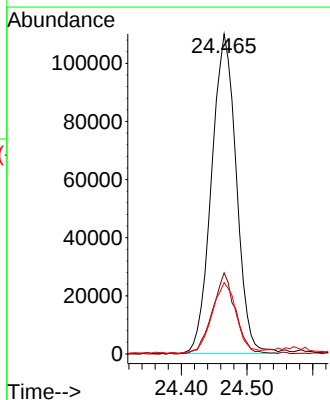
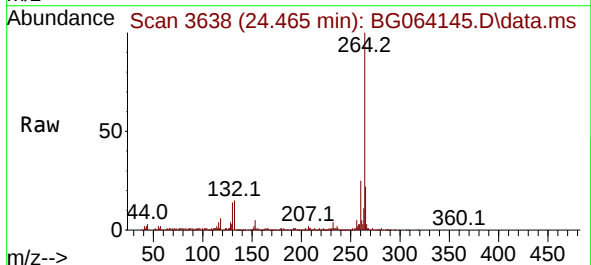
Manual Integrations
APPROVED

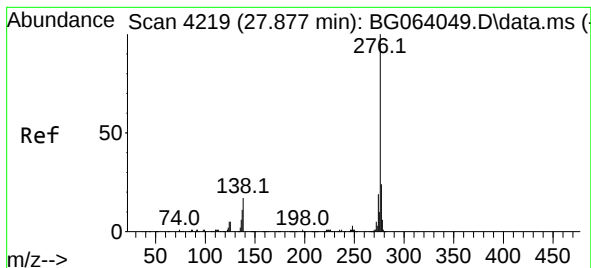
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025



#86
Perylene-d12
Concen: 20.000 ng
RT: 24.465 min Scan# 3638
Delta R.T. -0.010 min
Lab File: BG064145.D
Acq: 1 Apr 2025 21:46

Tgt Ion:264 Resp: 287978
Ion Ratio Lower Upper
264 100
260 25.4 19.6 29.4
265 22.3 16.6 25.0





#87

Indeno(1,2,3-cd)pyrene

Concen: 3.107 ng

RT: 27.844 min Scan# 41

Delta R.T. -0.033 min

Lab File: BG064145.D

Acq: 1 Apr 2025 21:46

Instrument :

BNA_G

ClientSampleId :

72-12016

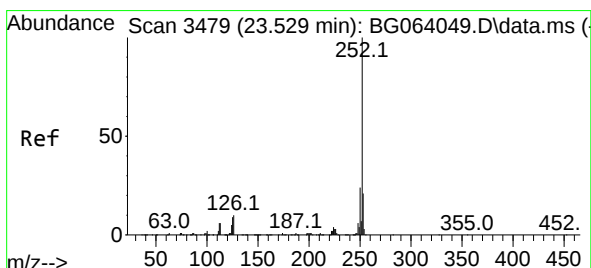
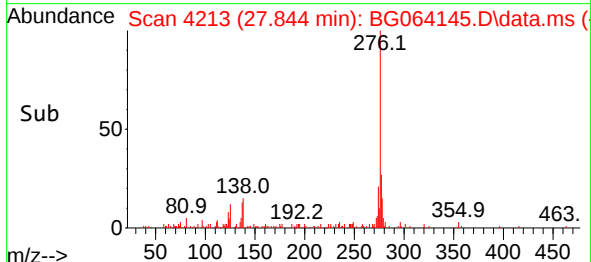
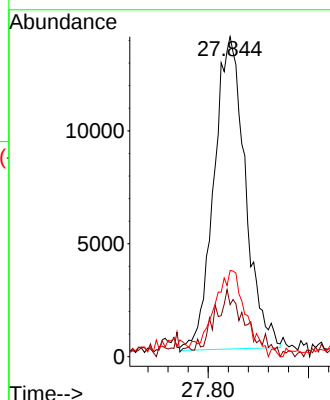
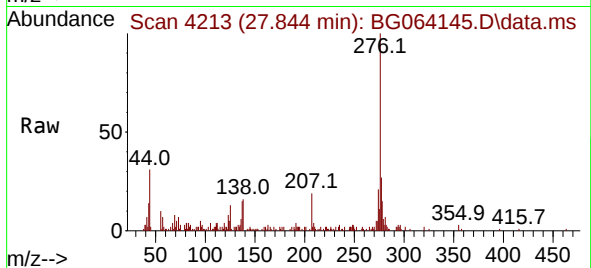
Tgt Ion:	276	Resp:	5986
Ion Ratio	Lower	Upper	
276	100		
138	14.4	12.1	18.1
277	28.4	20.0	30.0

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 04/02/2025

Supervised By :Jagrut Upadhyay 04/02/2025



#88

Benzo(b)fluoranthene

Concen: 13.423 ng

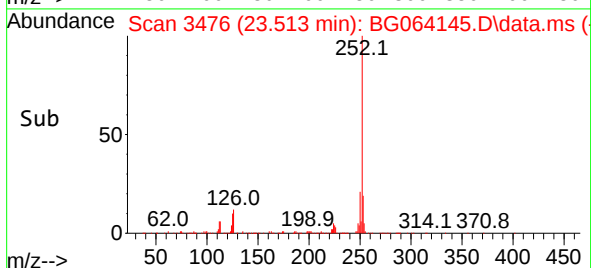
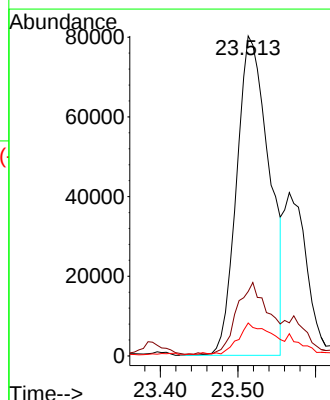
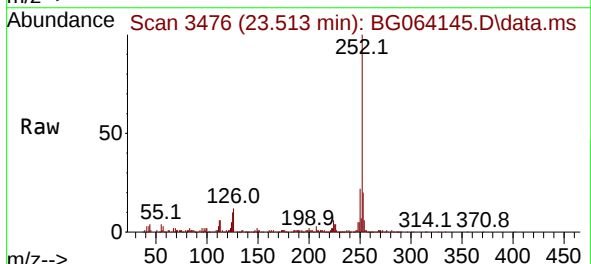
RT: 23.513 min Scan# 3476

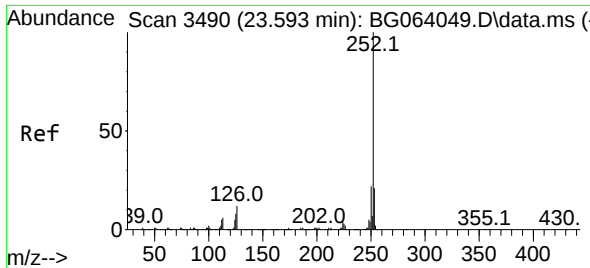
Delta R.T. -0.015 min

Lab File: BG064145.D

Acq: 1 Apr 2025 21:46

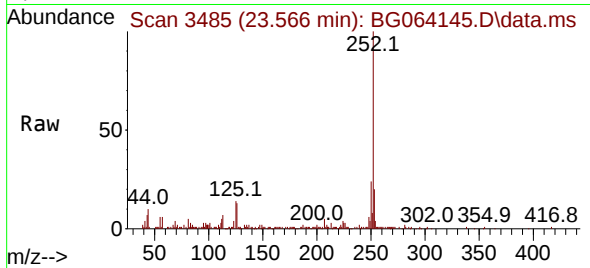
Tgt Ion:	252	Resp:	233688
Ion Ratio	Lower	Upper	
252	100		
253	20.1	17.0	25.4
125	10.3	7.4	11.2





#89
Benzo(k)fluoranthene
Concen: 4.831 ng m
RT: 23.566 min Scan# 3490
Delta R.T. -0.027 min
Lab File: BG064145.D
Acq: 1 Apr 2025 21:46

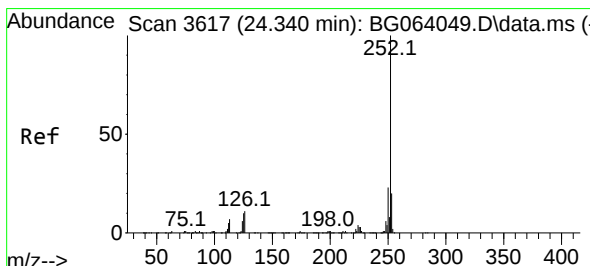
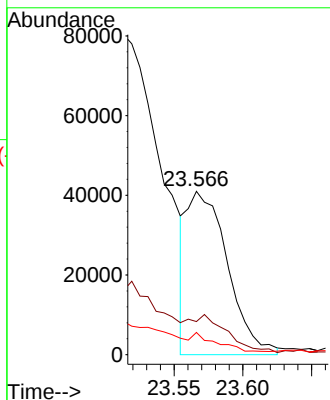
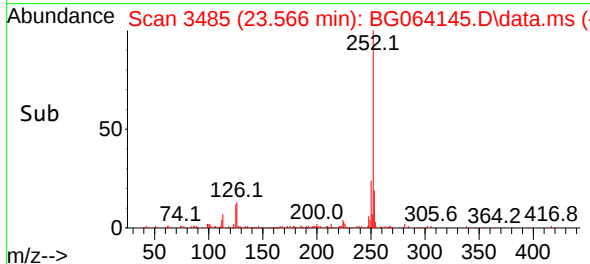
Instrument :
BNA_G
ClientSampleId :
72-12016



Tgt Ion:252 Resp: 84378
Ion Ratio Lower Upper
252 100
253 20.3 16.8 25.2
125 13.6 6.9 10.3

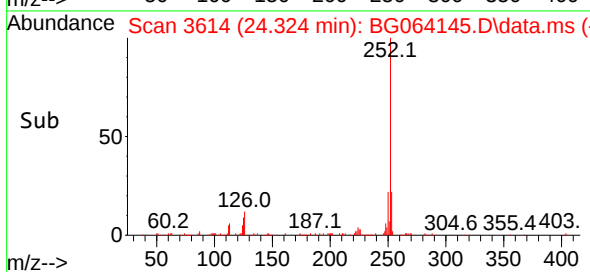
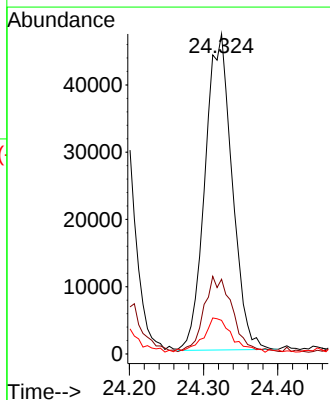
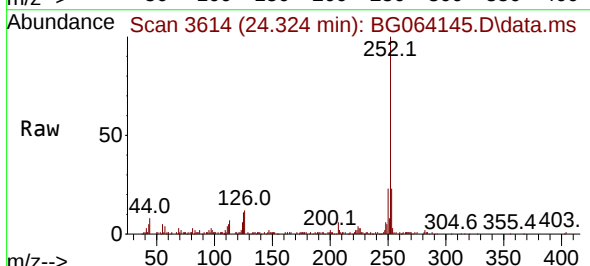
Manual Integrations
APPROVED

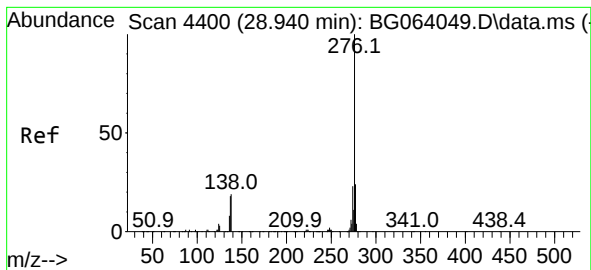
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025



#90
Benzo(a)pyrene
Concen: 7.659 ng
RT: 24.324 min Scan# 3614
Delta R.T. -0.015 min
Lab File: BG064145.D
Acq: 1 Apr 2025 21:46

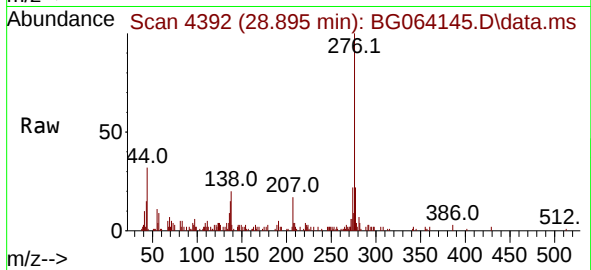
Tgt Ion:252 Resp: 118747
Ion Ratio Lower Upper
252 100
253 23.3 16.2 24.2
125 10.5 7.8 11.6





#92
Benzo(g,h,i)perylene
Concen: 3.705 ng
RT: 28.895 min Scan# 41
Delta R.T. -0.045 min
Lab File: BG064145.D
Acq: 1 Apr 2025 21:46

Instrument :
BNA_G
ClientSampleId :
72-12016



Tgt Ion:276 Resp: 60769
Ion Ratio Lower Upper
276 100
277 22.5 19.5 29.3
138 22.8 15.4 23.0

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

