

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG053023\
 Data File : BG057613.D
 Acq On : 30 May 2023 19:33
 Operator : CG/JU
 Sample : 02953-02
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 PNNL-RH-524-1

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 05/31/2023
 Supervised By : Yogesh Patel 06/01/2023

Quant Time: May 31 03:29:42 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG052723.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 31 03:25:39 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.338	152	26001	20.000	ng	0.00
21) Naphthalene-d8	11.175	136	105980	20.000	ng	0.00
39) Acenaphthene-d10	14.952	164	74671	20.000	ng	0.00
64) Phenanthrene-d10	17.690	188	176778	20.000	ng	0.00
76) Chrysene-d12	21.996	240	152945	20.000	ng	0.00
86) Perylene-d12	25.485	264	164456	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.859	112	148626	99.307	ng	0.00
7) Phenol-d6	7.486	99	221736	94.670	ng	0.00
23) Nitrobenzene-d5	9.518	82	139311	61.448	ng	0.00
42) 2,4,6-Tribromophenol	16.439	330	103272	86.384	ng	0.00
45) 2-Fluorobiphenyl	13.578	172	348533	67.079	ng	0.00
79) Terphenyl-d14	20.263	244	592450	67.100	ng	0.00
Target Compounds						Qvalue
71) Phenanthrene	17.737	178	72823	8.050	ng	97
75) Fluoranthene	19.728	202	161455	13.748	ng	100
78) Pyrene	20.087	202	151584	13.920	ng	99
81) Benzo(a)anthracene	21.972	228	80290	7.567	ng	96
83) Chrysene	22.043	228	72249	7.205	ng	96
87) Indeno(1,2,3-cd)pyrene	29.515	276	43007	3.751	ng	# 86
88) Benzo(b)fluoranthene	24.369	252	96414	9.524	ng	99
89) Benzo(k)fluoranthene	24.422	252	32478m	3.179	ng	
90) Benzo(a)pyrene	25.321	252	75320	7.630	ng	95
92) Benzo(g,h,i)perylene	30.796	276	44177m	4.747	ng	

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

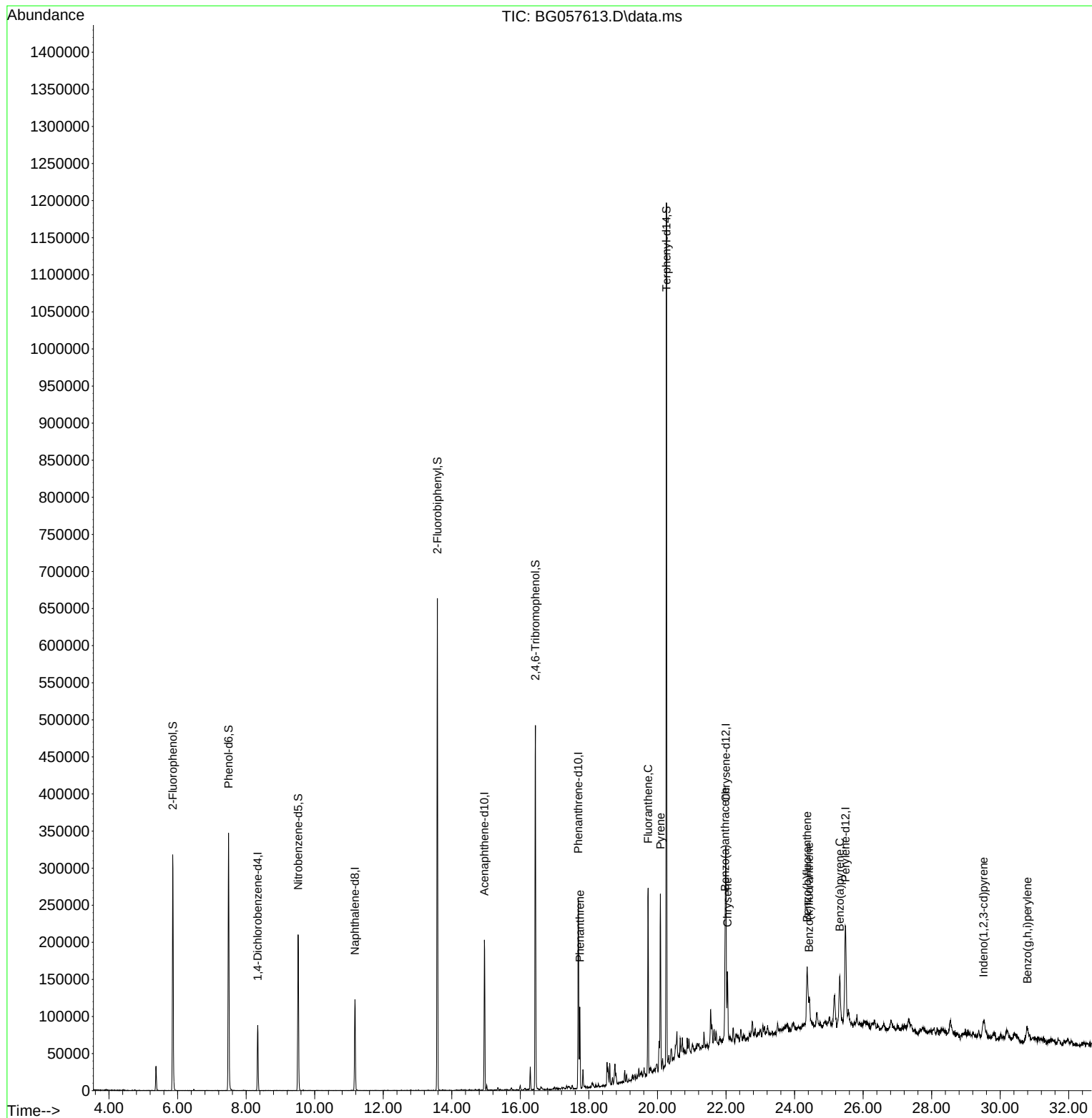
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG053023\
Data File : BG057613.D
Acq On : 30 May 2023 19:33
Operator : CG/JU
Sample : 02953-02
Misc :
ALS Vial : 10 Sample Multiplier: 1

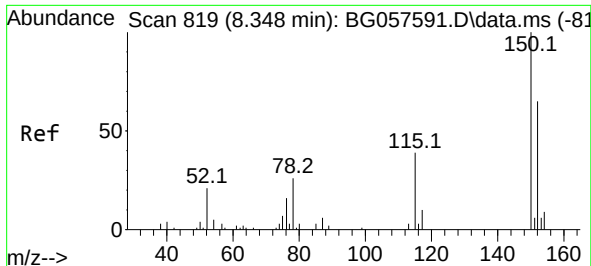
Instrument :
BNA_G
ClientSampleId :
PNNL-RH-524-1

Quant Time: May 31 03:29:42 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG052723.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 31 03:25:39 2023
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APPROVED

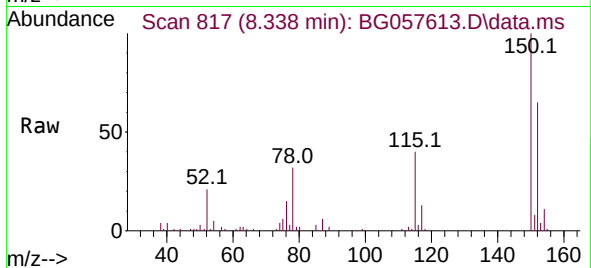
Reviewed By : Christian Giraldo 05/31/2023
Supervised By : Yogesh Patel 06/01/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.338 min Scan# 819
Delta R.T. -0.006 min
Lab File: BG057613.D
Acq: 30 May 2023 19:33

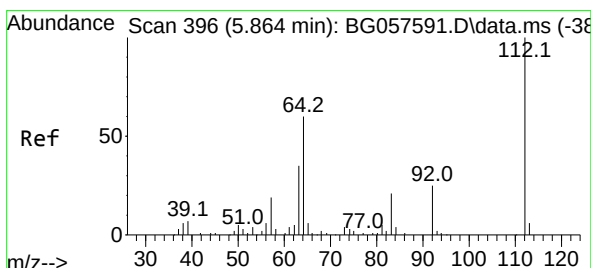
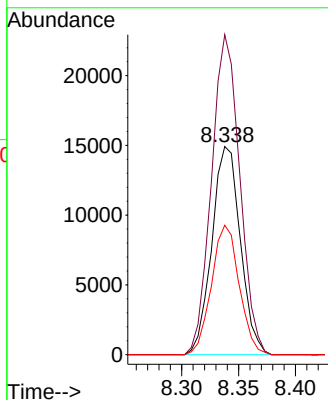
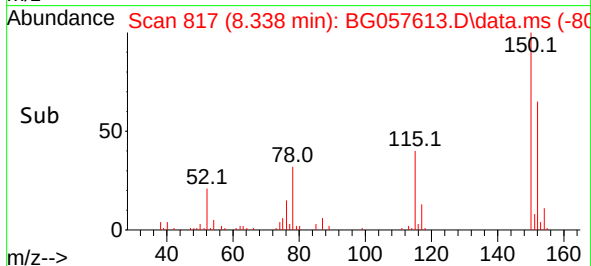
Instrument :
BNA_G
ClientSampleId :
PNNL-RH-524-1



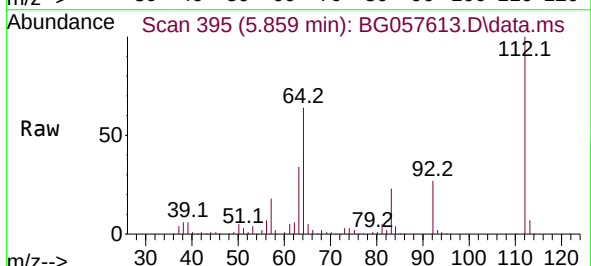
Tgt Ion:152 Resp: 2600
Ion Ratio Lower Upper
152 100
150 153.8 123.0 184.4
115 62.2 47.4 71.2

Manual Integrations
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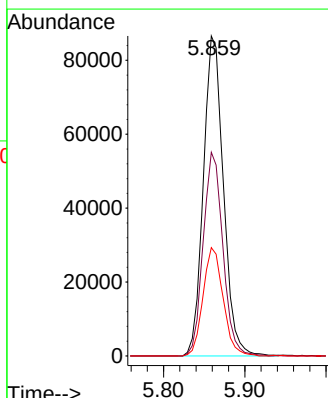
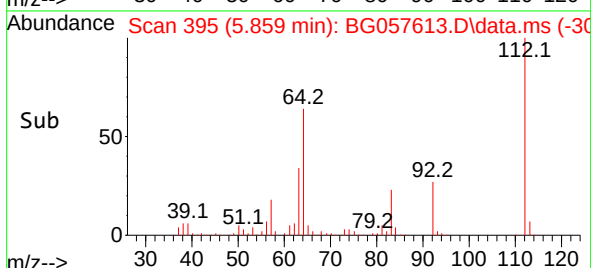
Reviewed By :Christian Giraldo 05/31/2023
Supervised By :Yogesh Patel 06/01/2023

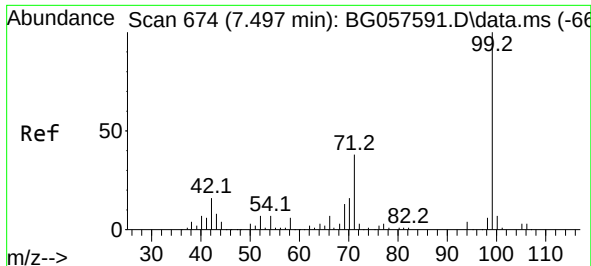


#5
2-Fluorophenol
Concen: 99.307 ng
RT: 5.859 min Scan# 395
Delta R.T. -0.000 min
Lab File: BG057613.D
Acq: 30 May 2023 19:33



Tgt Ion:112 Resp: 148626
Ion Ratio Lower Upper
112 100
64 63.7 47.8 71.6
63 33.8 27.8 41.8





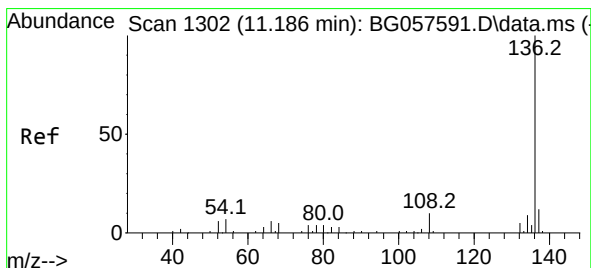
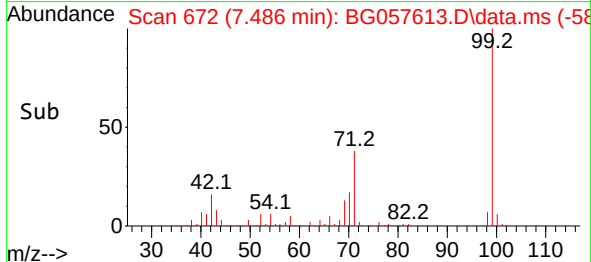
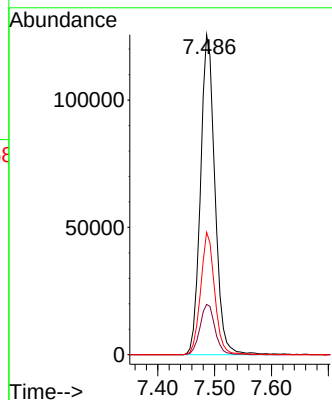
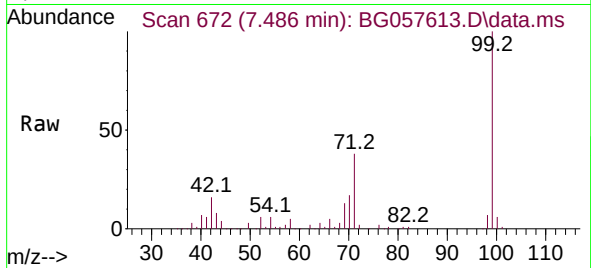
#7
Phenol-d6
Concen: 94.670 ng
RT: 7.486 min Scan# 61
Delta R.T. -0.000 min
Lab File: BG057613.D
Acq: 30 May 2023 19:33

Instrument :
BNA_G
ClientSampleId :
PNNL-RH-524-1

Tgt Ion: 99 Resp: 221730
Ion Ratio Lower Upper
99 100
42 15.7 12.8 19.2
71 38.2 30.3 45.5

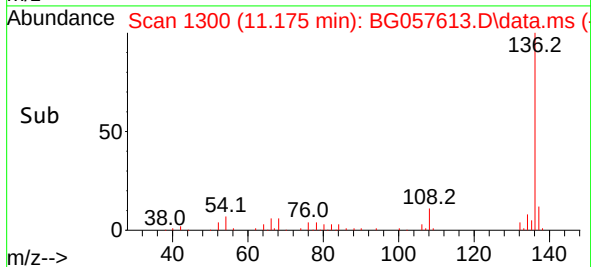
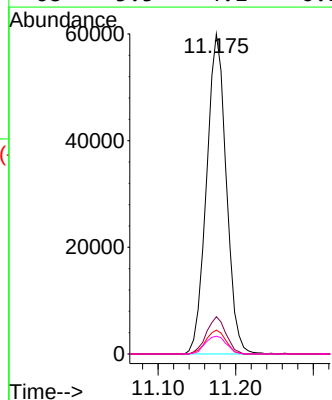
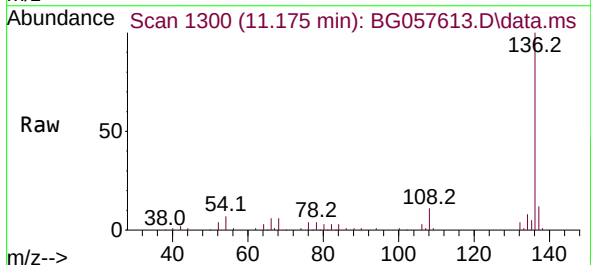
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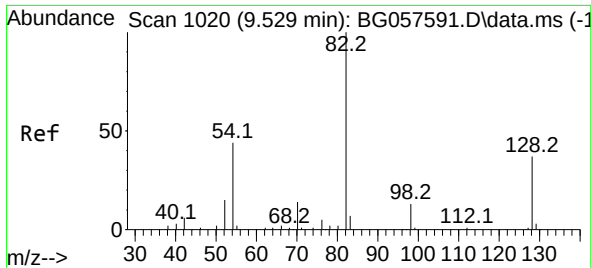
Reviewed By :Christian Giraldo 05/31/2023
Supervised By :Yogesh Patel 06/01/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 11.175 min Scan# 1300
Delta R.T. -0.000 min
Lab File: BG057613.D
Acq: 30 May 2023 19:33

Tgt Ion:136 Resp: 105980
Ion Ratio Lower Upper
136 100
137 11.7 9.8 14.8
54 7.5 5.8 8.6
68 5.5 4.1 6.1





#23
Nitrobenzene-d5
Concen: 61.448 ng
RT: 9.518 min Scan# 1018
Delta R.T. -0.006 min
Lab File: BG057613.D
Acq: 30 May 2023 19:33

Instrument :

BNA_G

ClientSampleId :

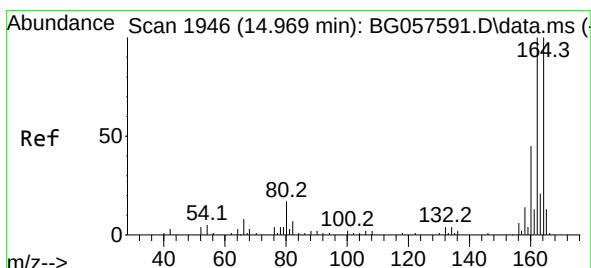
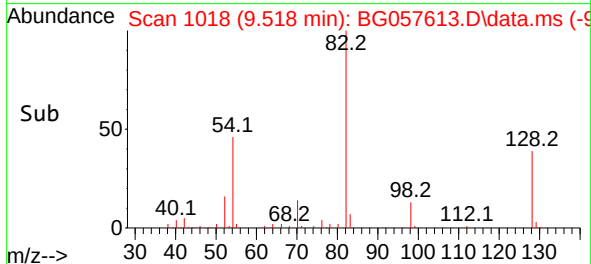
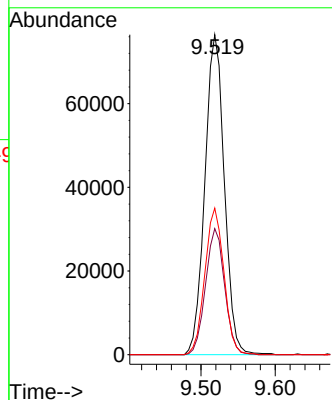
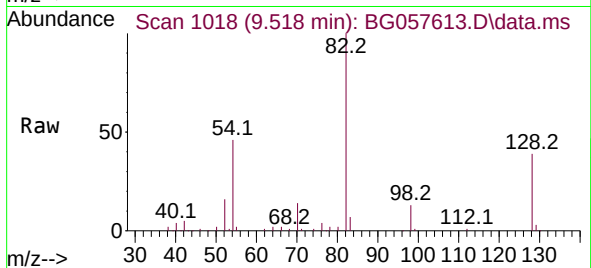
PNNL-RH-524-1

Tgt Ion: 82 Resp: 13931
Ion Ratio Lower Upper
82 100
128 39.4 30.0 45.0
54 45.8 35.2 52.8

Manual Integrations

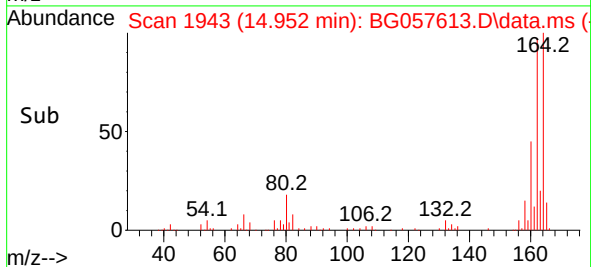
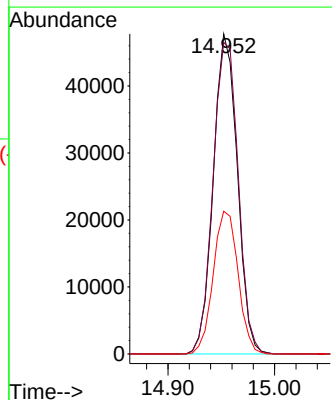
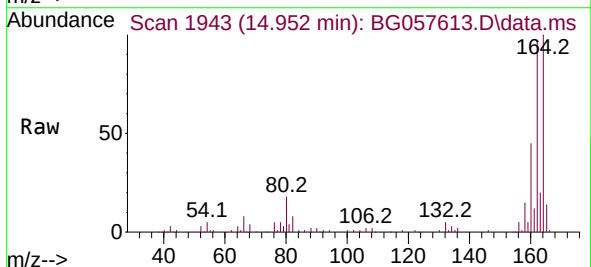
APPROVED

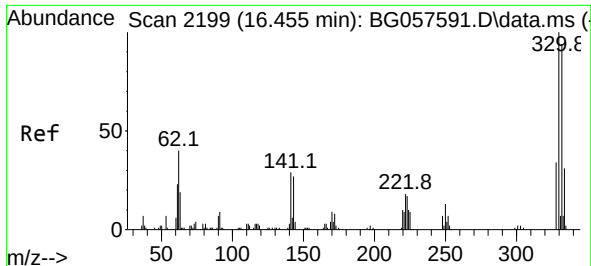
Reviewed By :Christian Giraldo 05/31/2023
Supervised By :Yogesh Patel 06/01/2023



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.952 min Scan# 1943
Delta R.T. -0.006 min
Lab File: BG057613.D
Acq: 30 May 2023 19:33

Tgt Ion:164 Resp: 74671
Ion Ratio Lower Upper
164 100
162 97.3 80.1 120.1
160 44.6 35.9 53.9





#42
2,4,6-Tribromophenol
Concen: 86.384 ng
RT: 16.439 min Scan# 2199
Delta R.T. -0.006 min
Lab File: BG057613.D
Acq: 30 May 2023 19:33

Instrument :

BNA_G

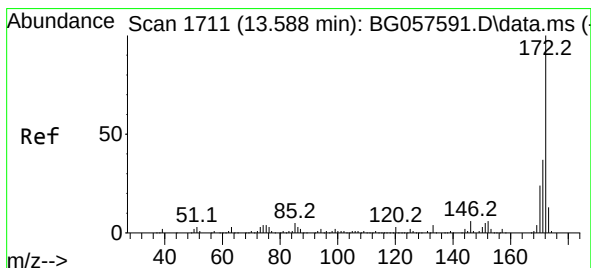
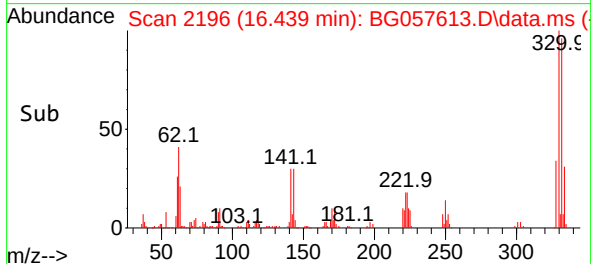
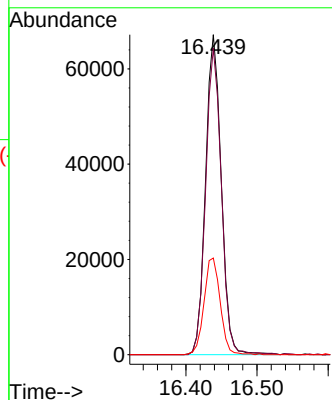
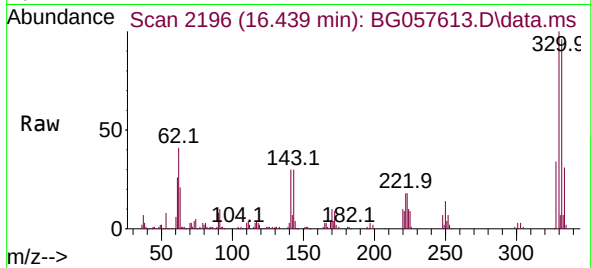
ClientSampleId :

PNNL-RH-524-1

Tgt Ion:330 Resp: 103272
Ion Ratio Lower Upper
330 100
332 96.1 77.3 115.9
141 31.1 24.6 37.0

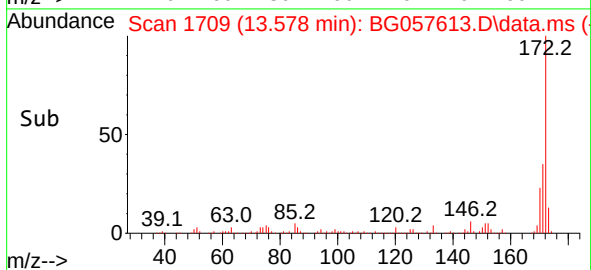
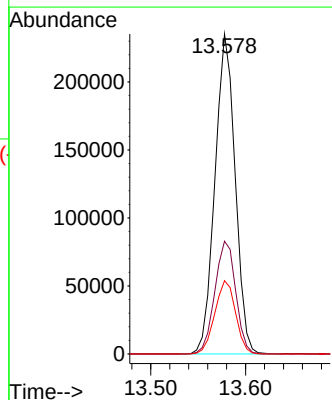
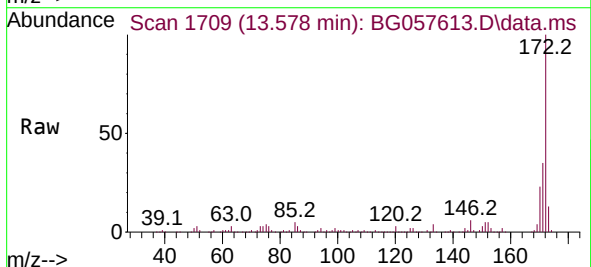
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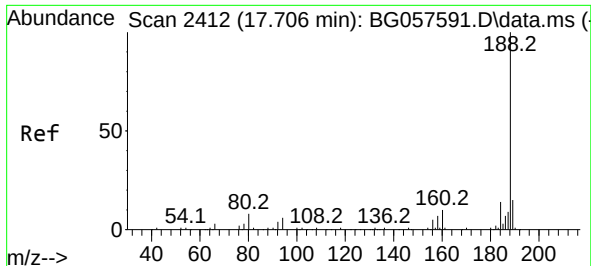
Reviewed By :Christian Giraldo 05/31/2023
Supervised By :Yogesh Patel 06/01/2023



#45
2-Fluorobiphenyl
Concen: 67.079 ng
RT: 13.578 min Scan# 1709
Delta R.T. -0.006 min
Lab File: BG057613.D
Acq: 30 May 2023 19:33

Tgt Ion:172 Resp: 348533
Ion Ratio Lower Upper
172 100
171 35.3 29.2 43.8
170 22.9 19.0 28.4





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.690 min Scan# 2412
Delta R.T. -0.006 min
Lab File: BG057613.D
Acq: 30 May 2023 19:33

Instrument :

BNA_G

ClientSampleId :

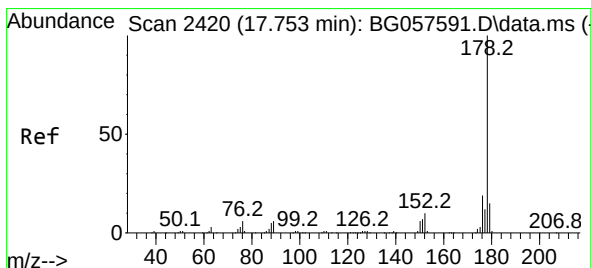
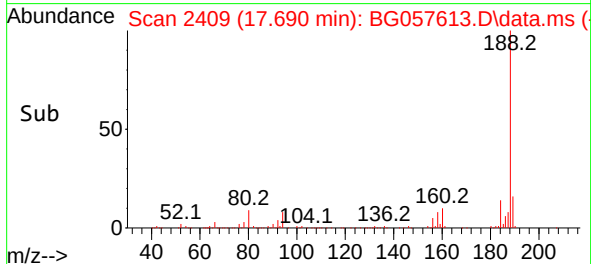
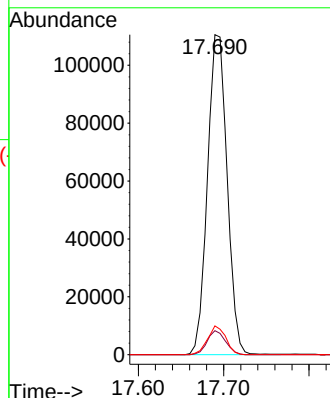
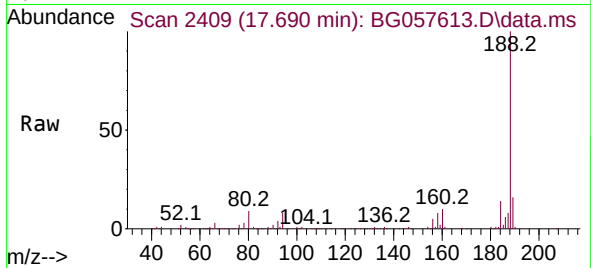
PNNL-RH-524-1

Tgt Ion:188 Resp: 176778
Ion Ratio Lower Upper
188 100
94 7.5 5.2 7.8
80 9.0 6.7 10.1

Manual Integrations

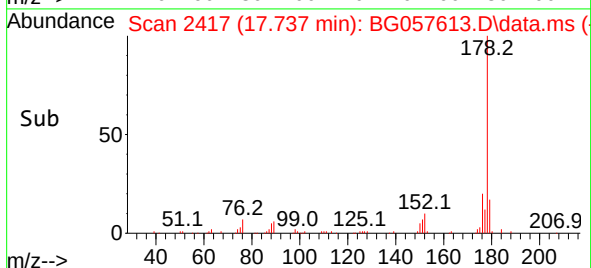
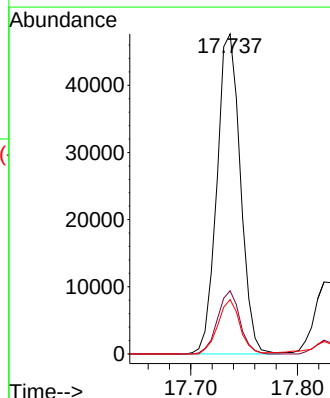
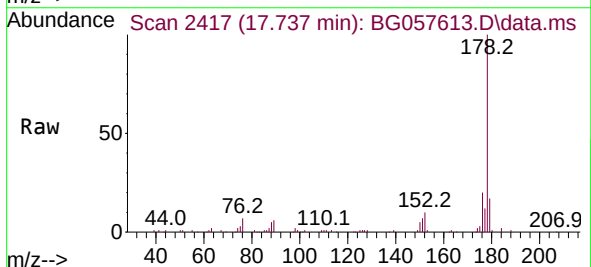
APPROVED

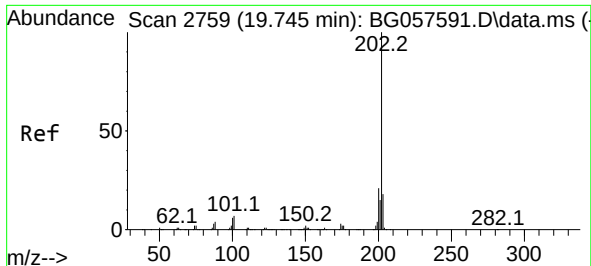
Reviewed By :Christian Giraldo 05/31/2023
Supervised By :Yogesh Patel 06/01/2023



#71
Phenanthrene
Concen: 8.050 ng
RT: 17.737 min Scan# 2417
Delta R.T. -0.006 min
Lab File: BG057613.D
Acq: 30 May 2023 19:33

Tgt Ion:178 Resp: 72823
Ion Ratio Lower Upper
178 100
176 19.8 15.3 22.9
179 17.0 12.0 18.0





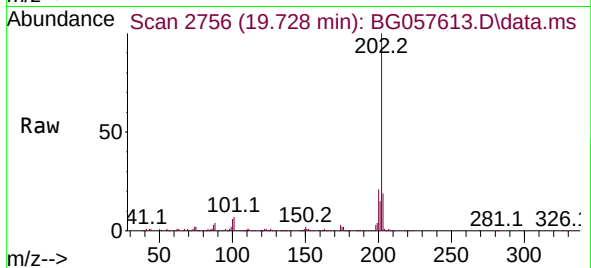
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Fluoranthene
Concen: 13.748 ng
RT: 19.728 min Scan# 21
Delta R.T. -0.000 min
Lab File: BG057613.D
Acq: 30 May 2023 19:33

Instrument :

BNA_G

ClientSampleId :

PNNL-RH-524-1

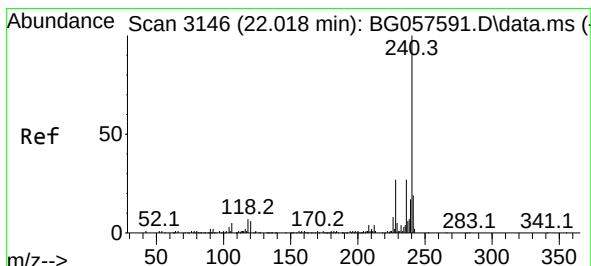
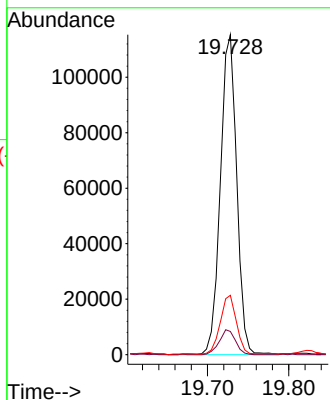
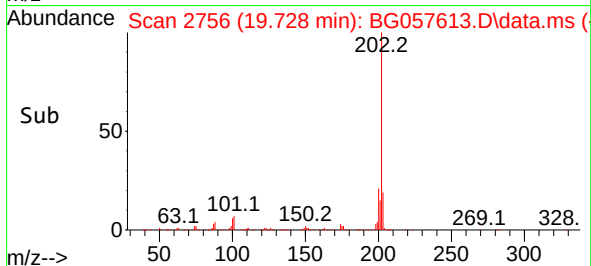


Tgt Ion:202 Resp: 16145
Ion Ratio Lower Upper
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101 7.2 0.0 27.5
203 18.5 0.0 38.4

Manual Integrations

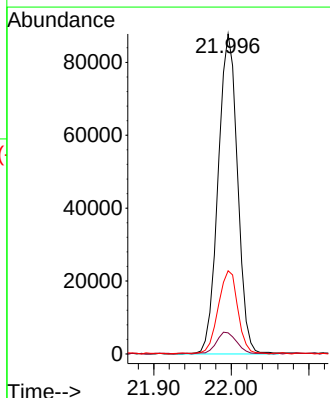
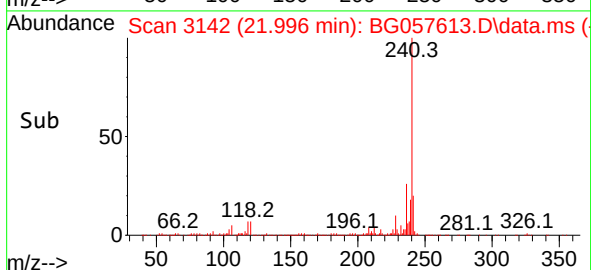
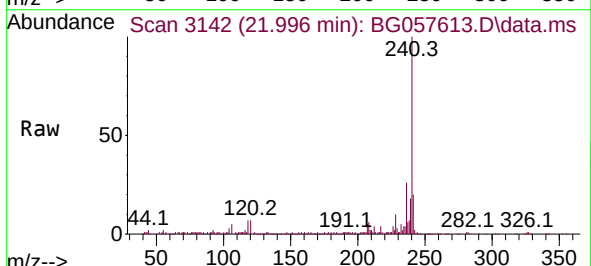
APPROVED

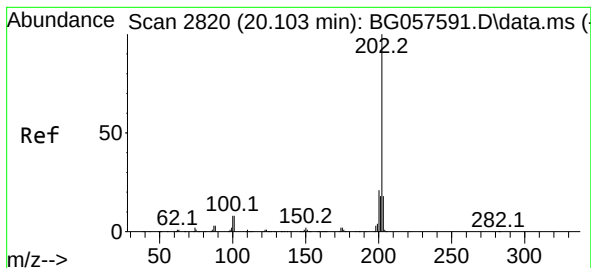
Reviewed By :Christian Giraldo 05/31/2023
Supervised By :Yogesh Patel 06/01/2023



#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.996 min Scan# 3142
Delta R.T. -0.006 min
Lab File: BG057613.D
Acq: 30 May 2023 19:33

Tgt Ion:240 Resp: 152945
Ion Ratio Lower Upper
240 100
120 6.6 5.2 7.8
236 26.0 21.4 32.0





#78

Pyrene

Concen: 13.920 ng

RT: 20.087 min Scan# 2817

Delta R.T. -0.006 min

Lab File: BG057613.D

Acq: 30 May 2023 19:33

Instrument :

BNA_G

ClientSampleId :

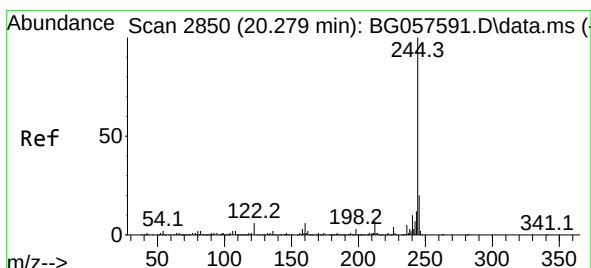
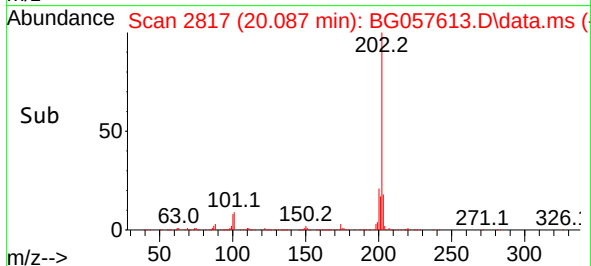
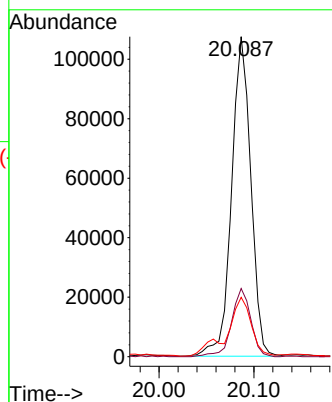
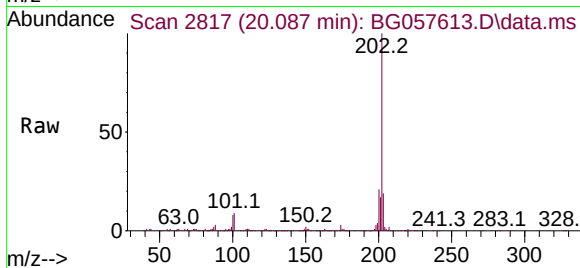
PNNL-RH-524-1

Tgt Ion:	202	Resp:	151584
Ion Ratio	Lower	Upper	
202	100		
200	21.3	16.8	25.2
203	18.6	14.5	21.7

Manual Integrations

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Reviewed By :Christian Giraldo 05/31/2023
Supervised By :Yogesh Patel 06/01/2023



#79

Terphenyl-d14

Concen: 67.100 ng

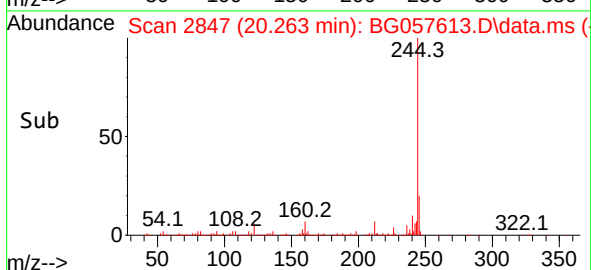
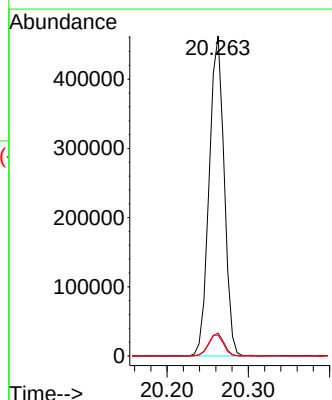
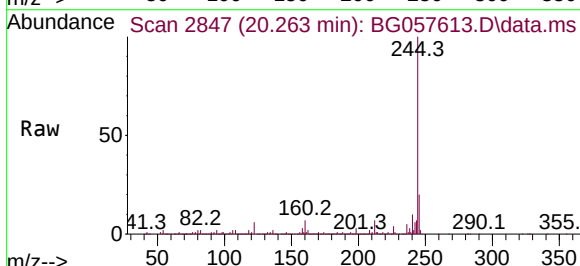
RT: 20.263 min Scan# 2847

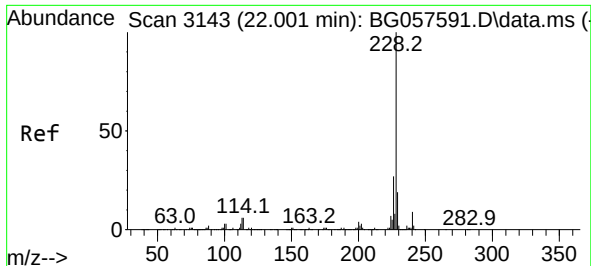
Delta R.T. -0.006 min

Lab File: BG057613.D

Acq: 30 May 2023 19:33

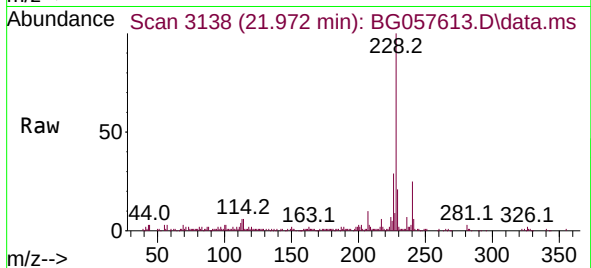
Tgt Ion:	244	Resp:	592450
Ion Ratio	Lower	Upper	
244	100		
212	7.2	5.6	8.4
122	6.5	4.8	7.2





#81
Benzo(a)anthracene
Concen: 7.567 ng
RT: 21.972 min Scan# 3143
Delta R.T. -0.006 min
Lab File: BG057613.D
Acq: 30 May 2023 19:33

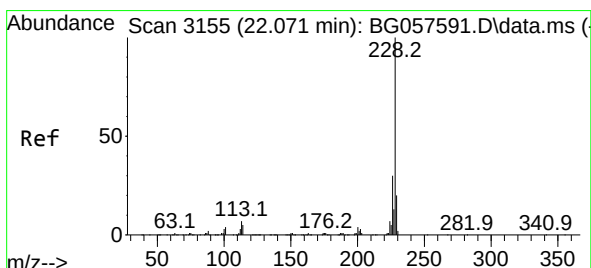
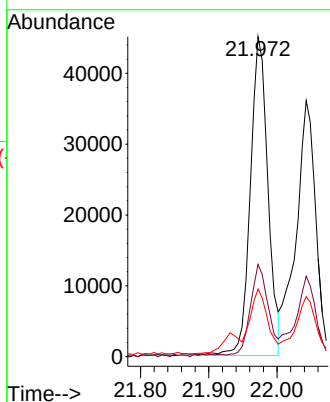
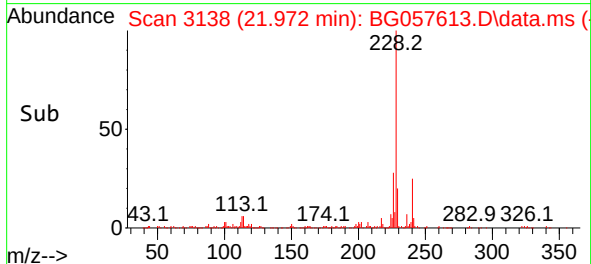
Instrument :
BNA_G
ClientSampleId :
PNNL-RH-524-1



Tgt Ion:228 Resp: 80290
Ion Ratio Lower Upper
228 100
226 28.8 21.4 32.0
229 21.2 15.4 23.2

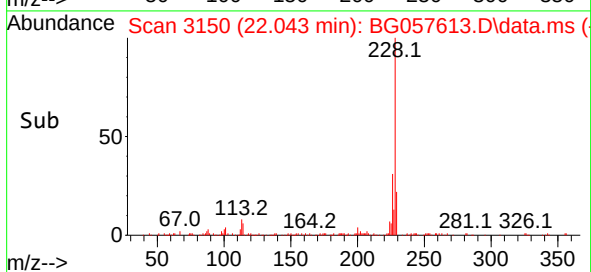
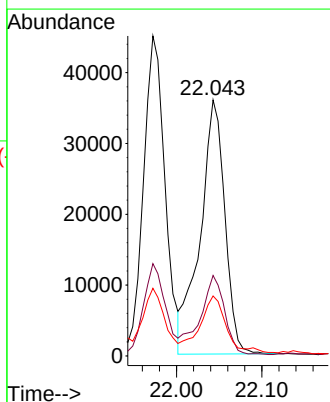
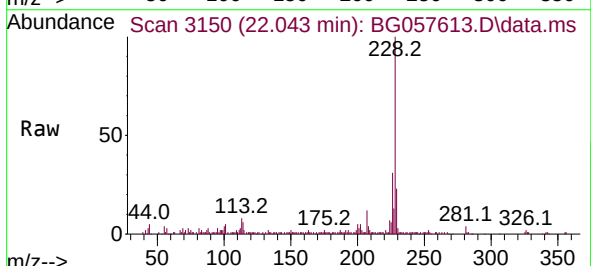
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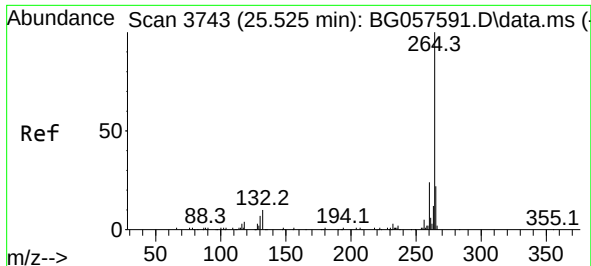
Reviewed By :Christian Giraldo 05/31/2023
Supervised By :Yogesh Patel 06/01/2023



#83
Chrysene
Concen: 7.205 ng
RT: 22.043 min Scan# 3150
Delta R.T. -0.012 min
Lab File: BG057613.D
Acq: 30 May 2023 19:33

Tgt Ion:228 Resp: 72249
Ion Ratio Lower Upper
228 100
226 31.4 24.3 36.5
229 23.4 16.0 24.0





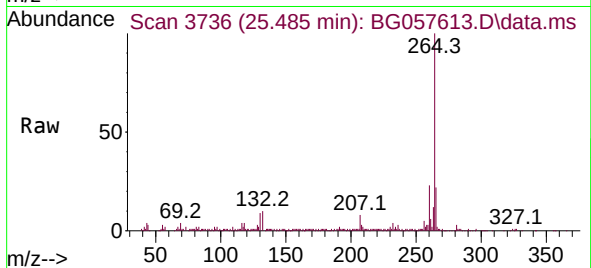
#86
Perylene-d12
Concen: 20.000 ng
RT: 25.485 min Scan# 31
Delta R.T. -0.006 min
Lab File: BG057613.D
Acq: 30 May 2023 19:33

Instrument :

BNA_G

ClientSampleId :

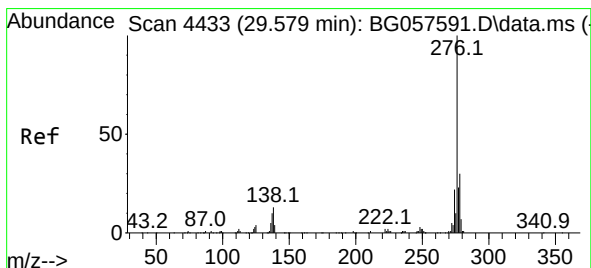
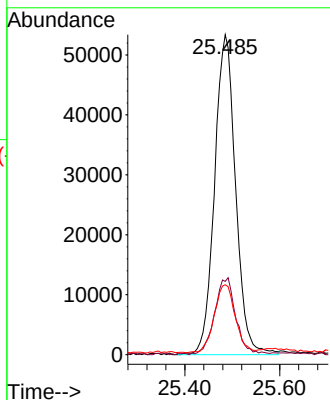
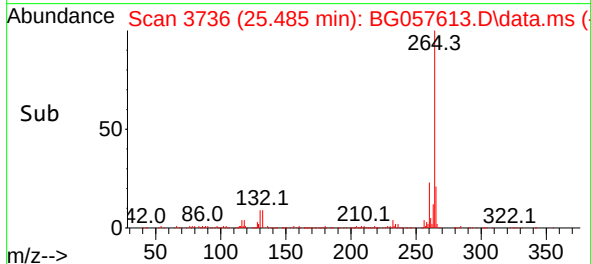
PNNL-RH-524-1



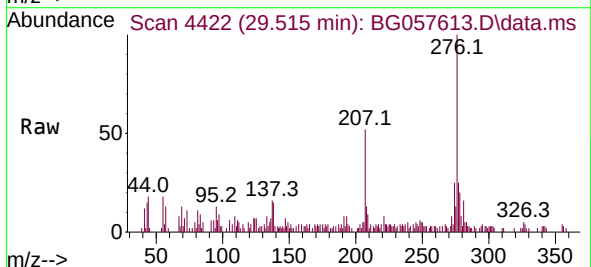
Tgt Ion:264 Resp: 164450
Ion Ratio Lower Upper
264 100
260 22.9 19.1 28.7
265 21.8 17.7 26.5

Manual Integrations
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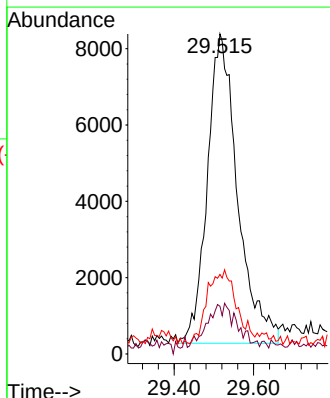
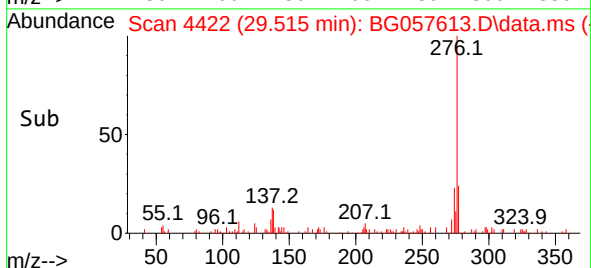
Reviewed By :Christian Giraldo 05/31/2023
Supervised By :Yogesh Patel 06/01/2023

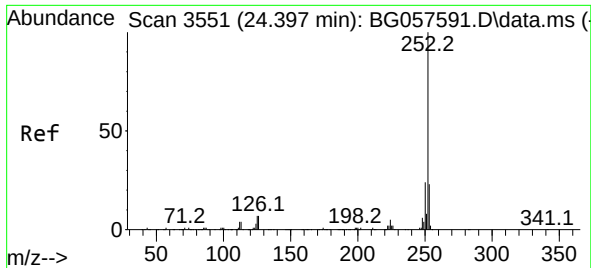


#87
Indeno(1,2,3-cd)pyrene
Concen: 3.751 ng
RT: 29.515 min Scan# 4422
Delta R.T. -0.006 min
Lab File: BG057613.D
Acq: 30 May 2023 19:33



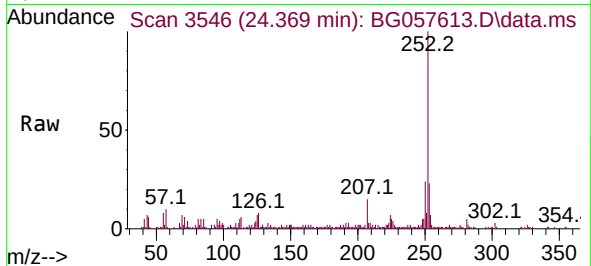
Tgt Ion:276 Resp: 43007
Ion Ratio Lower Upper
276 100
138 5.0 12.3 18.5#
277 21.6 20.5 30.7





#88
Benzo(b)fluoranthene
Concen: 9.524 ng
RT: 24.369 min Scan# 31
Delta R.T. -0.006 min
Lab File: BG057613.D
Acq: 30 May 2023 19:33

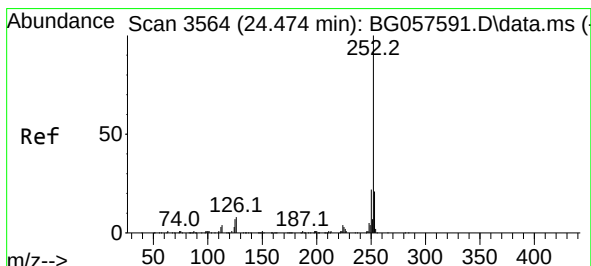
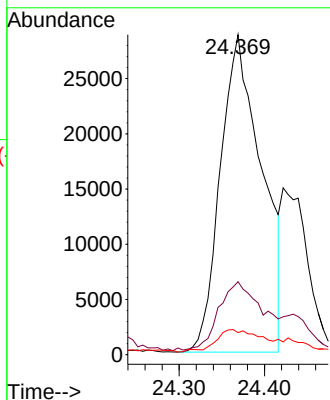
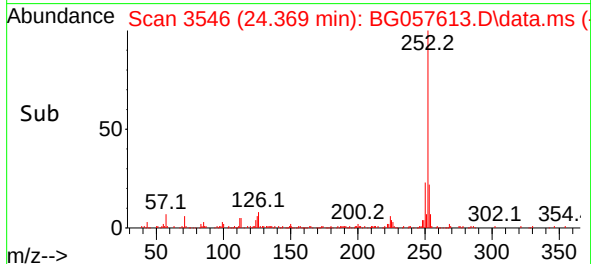
Instrument :
BNA_G
ClientSampleId :
PNNL-RH-524-1



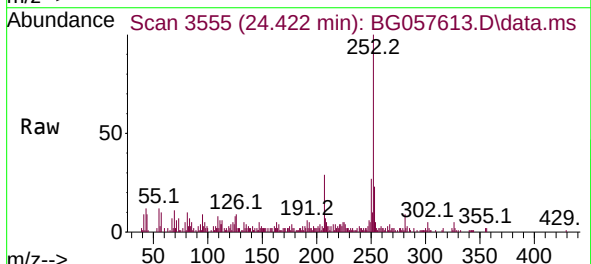
Tgt Ion:252 Resp: 96414
Ion Ratio Lower Upper
252 100
253 22.8 18.4 27.6
125 6.9 5.2 7.8

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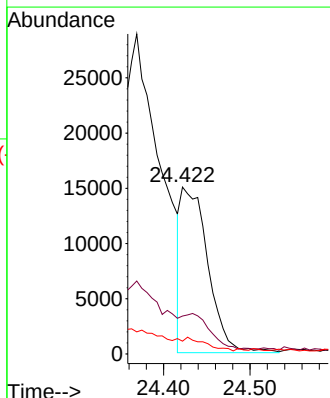
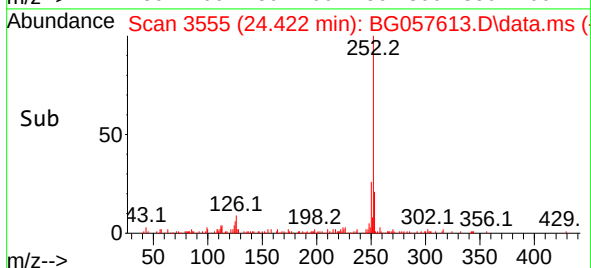
Reviewed By :Christian Giraldo 05/31/2023
Supervised By :Yogesh Patel 06/01/2023

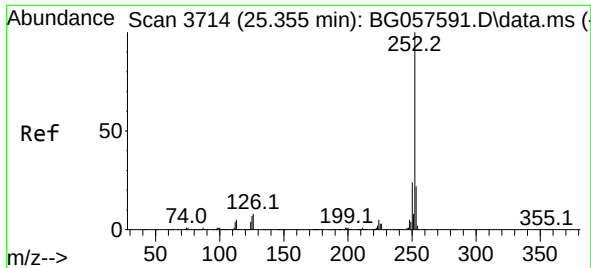


#89
Benzo(k)fluoranthene
Concen: 3.179 ng m
RT: 24.422 min Scan# 3555
Delta R.T. -0.024 min
Lab File: BG057613.D
Acq: 30 May 2023 19:33



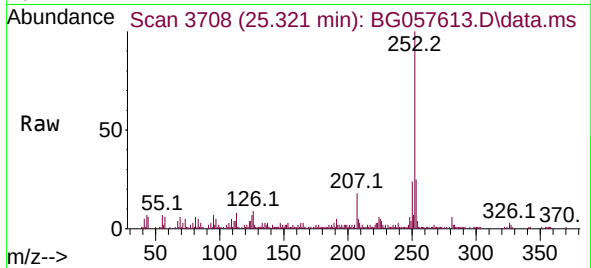
Tgt Ion:252 Resp: 32478
Ion Ratio Lower Upper
252 100
253 22.7 17.0 25.6
125 7.7 5.1 7.7





#90
Benzo(a)pyrene
Concen: 7.630 ng
RT: 25.321 min Scan# 31
Delta R.T. -0.006 min
Lab File: BG057613.D
Acq: 30 May 2023 19:33

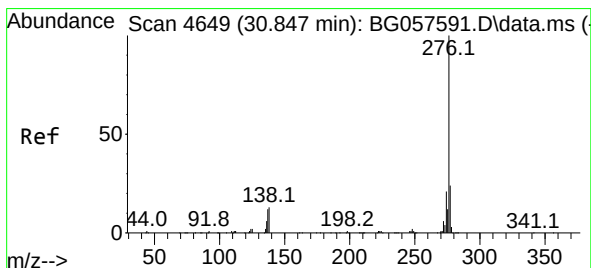
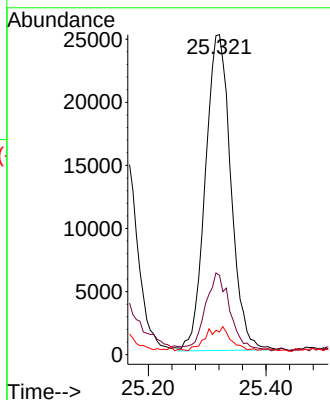
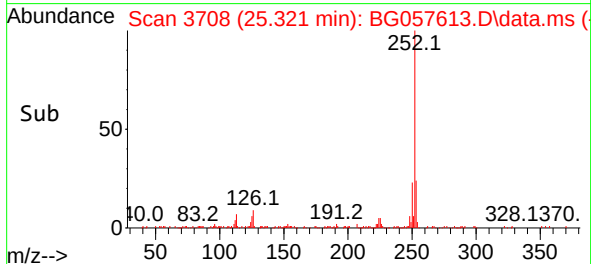
Instrument :
BNA_G
ClientSampleId :
PNNL-RH-524-1



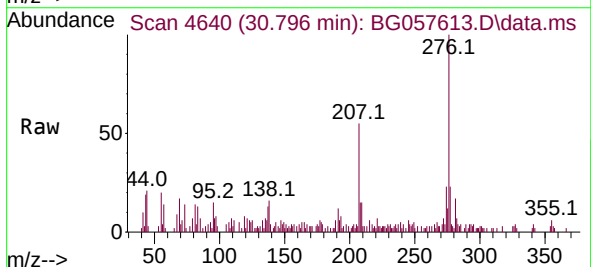
Tgt Ion:252 Resp: 75320
Ion Ratio Lower Upper
252 100
253 24.8 17.7 26.5
125 7.1 5.3 7.9

Manual Integrations
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Reviewed By :Christian Giraldo 05/31/2023
Supervised By :Yogesh Patel 06/01/2023



#92
Benzo(g,h,i)perylene
Concen: 4.747 ng m
RT: 30.796 min Scan# 4640
Delta R.T. -0.006 min
Lab File: BG057613.D
Acq: 30 May 2023 19:33



Tgt Ion:276 Resp: 44177
Ion Ratio Lower Upper
276 100
277 22.8 18.9 28.3
138 15.7 10.2 15.4#

