

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG053023\
 Data File : BG057617.D
 Acq On : 30 May 2023 22:18
 Operator : CG/JU
 Sample : 02953-03 2X
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 PNNL-RH-524-2

Quant Time: May 31 03:30:37 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)

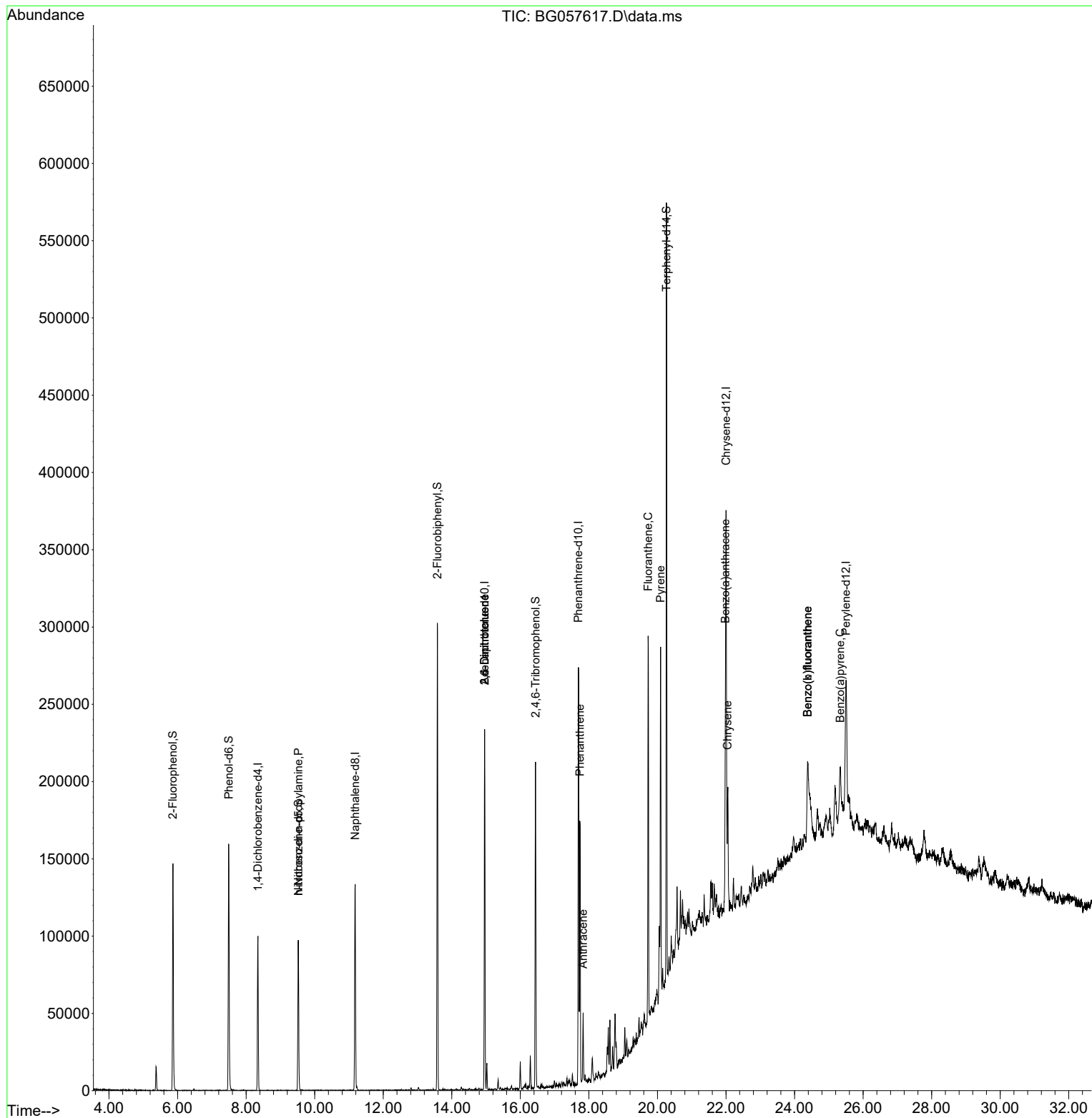
Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.343	152	29052	20.000	ng	0.00
21) Naphthalene-d8	11.181	136	117635	20.000	ng	0.00
39) Acenaphthene-d10	14.958	164	81423	20.000	ng	0.00
64) Phenanthrene-d10	17.696	188	180948	20.000	ng	0.00
76) Chrysene-d12	22.001	240	146538	20.000	ng	0.00
86) Perylene-d12	25.503	264	138633	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.864	112	73115	43.723	ng	0.00
7) Phenol-d6	7.492	99	104707	40.010	ng	0.00
23) Nitrobenzene-d5	9.524	82	67677	26.894	ng	0.00
42) 2,4,6-Tribromophenol	16.444	330	46928	35.999	ng	0.00
45) 2-Fluorobiphenyl	13.578	172	168203	29.688	ng	0.00
79) Terphenyl-d14	20.263	244	248827	29.414	ng	0.00
Target Compounds						
						Qvalue
19) n-Nitroso-di-n-propyla...	9.524	70	9236	5.080	ng	# 74
51) 2,6-Dinitrotoluene	14.958	165	10804	7.521	ng	# 27
57) 2,4-Dinitrotoluene	14.958	165	10804	5.023	ng	# 25
71) Phenanthrene	17.737	178	110073	11.887	ng	98
72) Anthracene	17.831	178	27902	2.937	ng	99
75) Fluoranthene	19.728	202	163773	13.624	ng	99
78) Pyrene	20.092	202	139586	13.378	ng	98
81) Benzo(a)anthracene	21.984	228	76350	7.510	ng	98
83) Chrysene	22.048	228	64515	6.715	ng	97
88) Benzo(b)fluoranthene	24.381	252	66364	7.777	ng	# 93
89) Benzo(k)fluoranthene	24.381	252	66364	7.706	ng	# 90
90) Benzo(a)pyrene	25.332	252	49994	6.008	ng	# 92

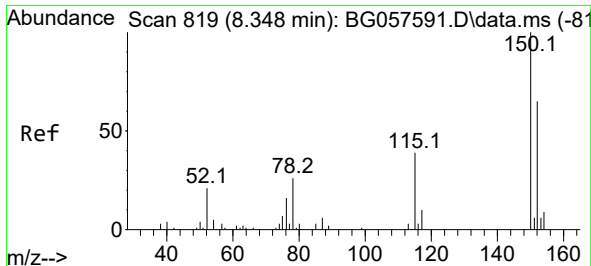
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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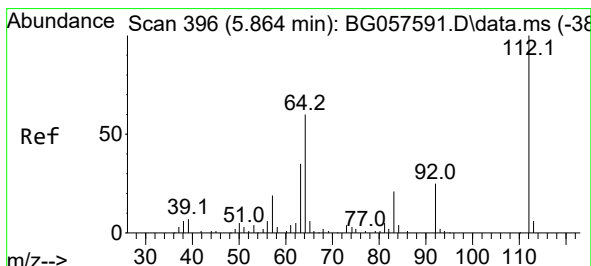
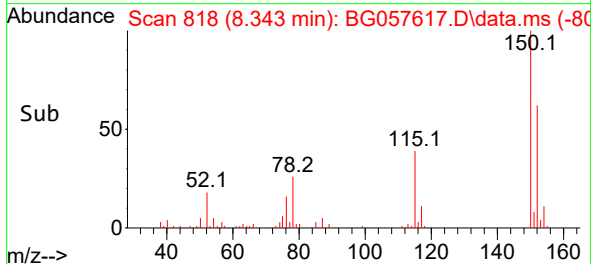
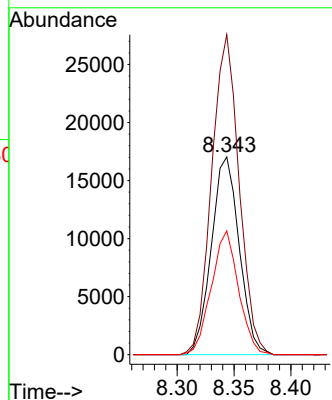
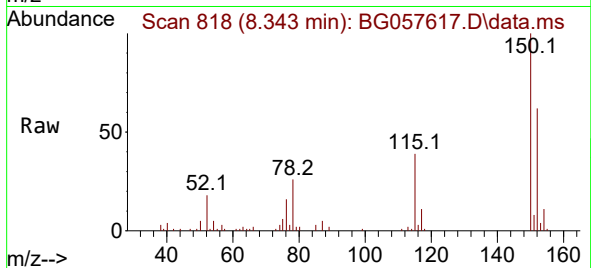




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.343 min Scan# 819
Delta R.T. -0.001 min
Lab File: BG057617.D
Acq: 30 May 2023 22:18

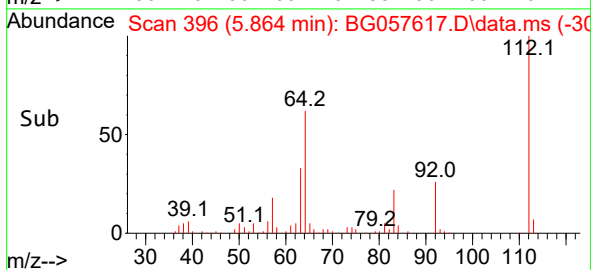
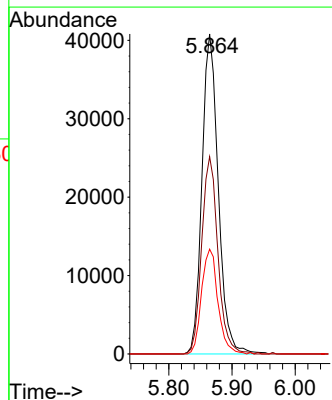
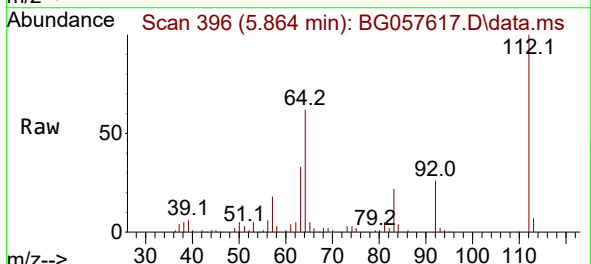
Instrument :
BNA_G
ClientSampleId :
PNNL-RH-524-2

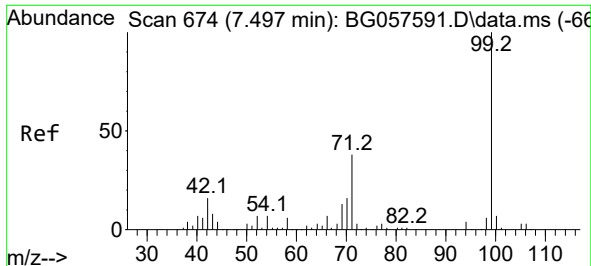
Tgt Ion:152 Resp: 29052
Ion Ratio Lower Upper
152 100
150 161.8 123.0 184.4
115 62.6 47.4 71.2



#5
2-Fluorophenol
Concen: 43.723 ng
RT: 5.864 min Scan# 396
Delta R.T. 0.006 min
Lab File: BG057617.D
Acq: 30 May 2023 22:18

Tgt Ion:112 Resp: 73115
Ion Ratio Lower Upper
112 100
64 61.7 47.8 71.6
63 32.8 27.8 41.8

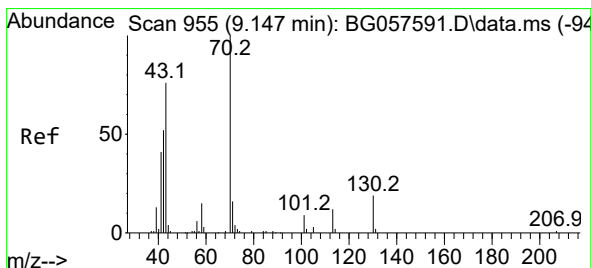
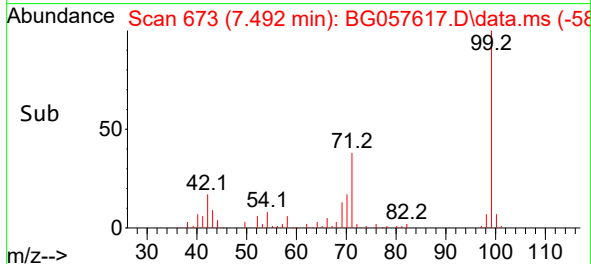
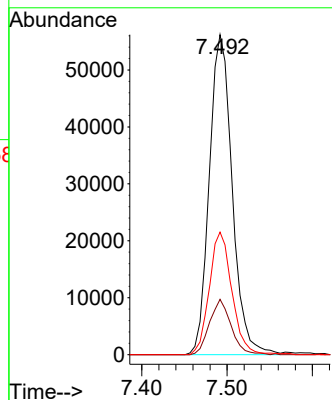
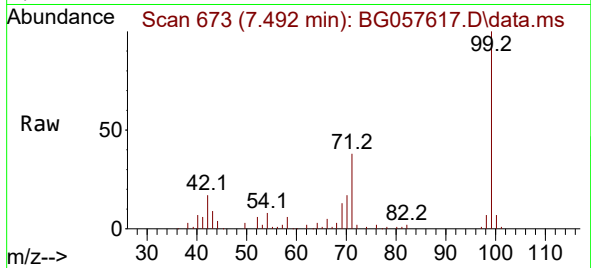




#7
Phenol-d6
Concen: 40.010 ng
RT: 7.492 min Scan# 61
Delta R.T. 0.006 min
Lab File: BG057617.D
Acq: 30 May 2023 22:18

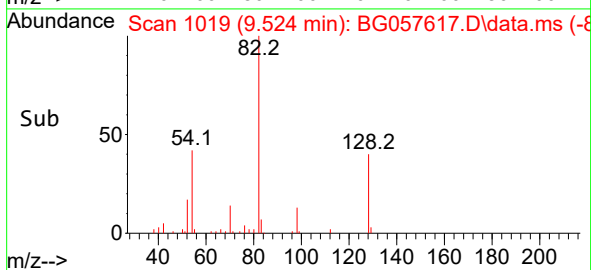
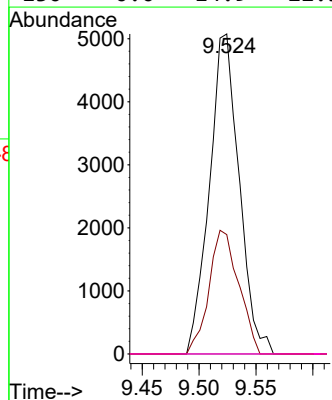
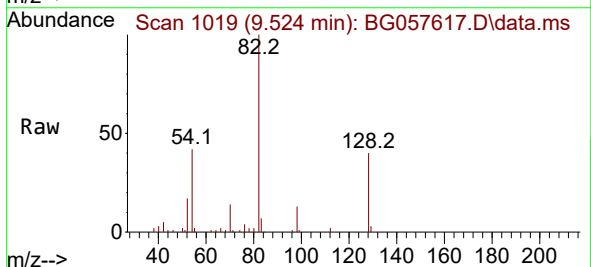
Instrument :
BNA_G
ClientSampleId :
PNNL-RH-524-2

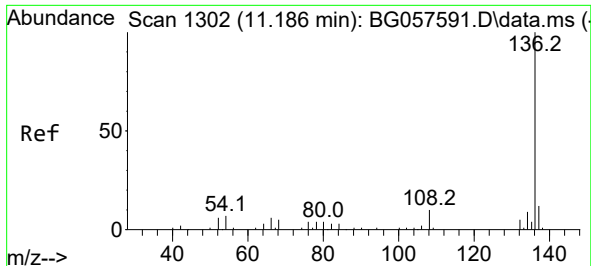
Tgt Ion: 99 Resp: 104707
Ion Ratio Lower Upper
99 100
42 17.3 12.8 19.2
71 38.3 30.3 45.5



#19
n-Nitroso-di-n-propylamine
Concen: 5.080 ng
RT: 9.524 min Scan# 1019
Delta R.T. 0.382 min
Lab File: BG057617.D
Acq: 30 May 2023 22:18

Tgt Ion: 70 Resp: 9236
Ion Ratio Lower Upper
70 100
42 37.3 41.4 62.0#
101 0.0 6.9 10.3#
130 0.0 14.9 22.3#

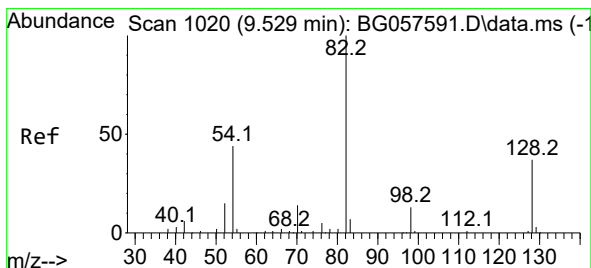
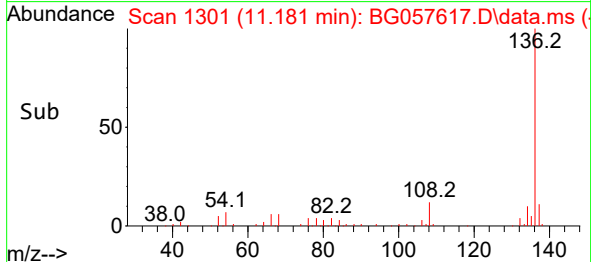
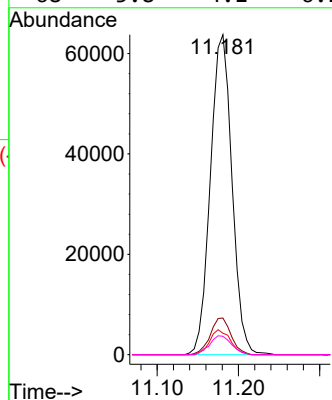
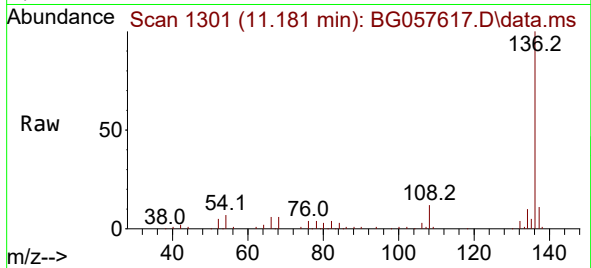




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 11.181 min Scan# 117635
Delta R.T. 0.006 min
Lab File: BG057617.D
Acq: 30 May 2023 22:18

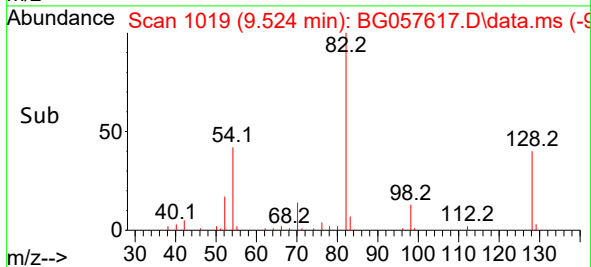
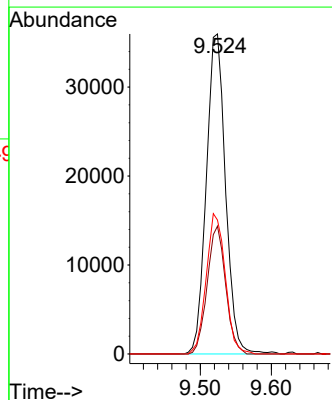
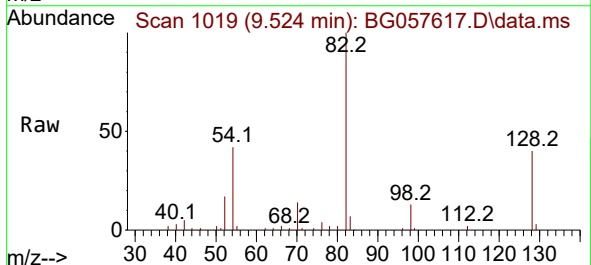
Instrument :
BNA_G
ClientSampleId :
PNNL-RH-524-2

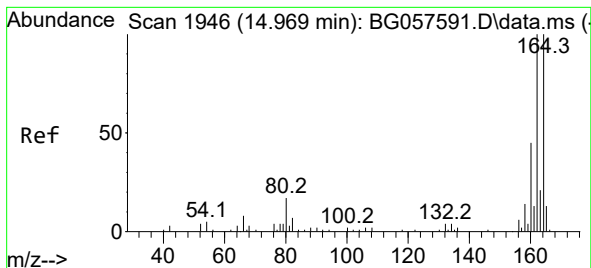
Tgt Ion:	136	Resp:	117635
Ion	Ratio	Lower	Upper
136	100		
137	11.5	9.8	14.8
54	6.7	5.8	8.6
68	5.8	4.1	6.1



#23
Nitrobenzene-d5
Concen: 26.894 ng
RT: 9.524 min Scan# 1019
Delta R.T. -0.000 min
Lab File: BG057617.D
Acq: 30 May 2023 22:18

Tgt Ion:	82	Resp:	67677
Ion	Ratio	Lower	Upper
82	100		
128	40.0	30.0	45.0
54	41.9	35.2	52.8





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.958 min Scan# 1944

Delta R.T. -0.000 min

Lab File: BG057617.D

Acq: 30 May 2023 22:18

Instrument :

BNA_G

ClientSampleId :

PNNL-RH-524-2

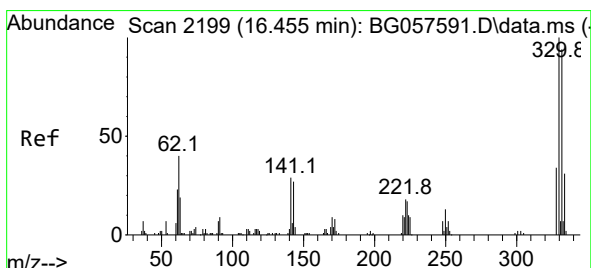
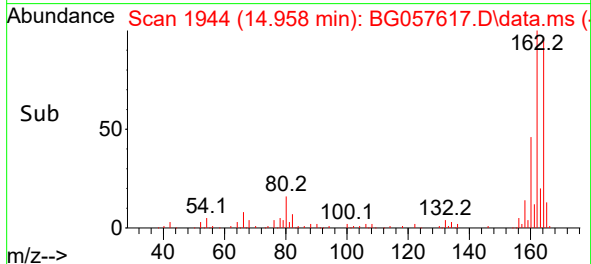
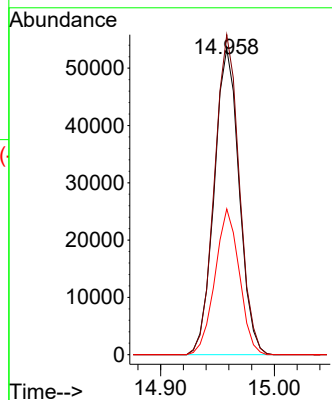
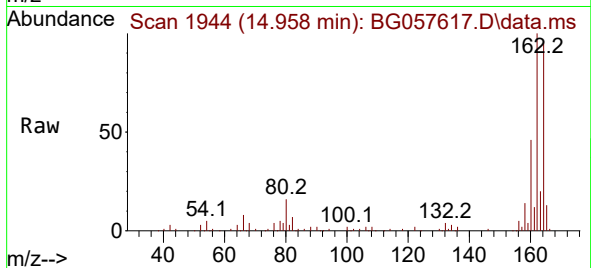
Tgt Ion:164 Resp: 81423

Ion Ratio Lower Upper

164 100

162 104.5 80.1 120.1

160 47.6 35.9 53.9



#42

2,4,6-Tribromophenol

Concen: 35.999 ng

RT: 16.444 min Scan# 2197

Delta R.T. -0.000 min

Lab File: BG057617.D

Acq: 30 May 2023 22:18

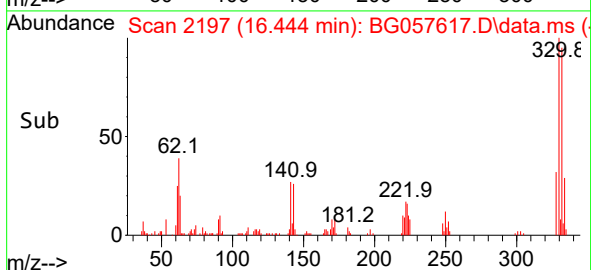
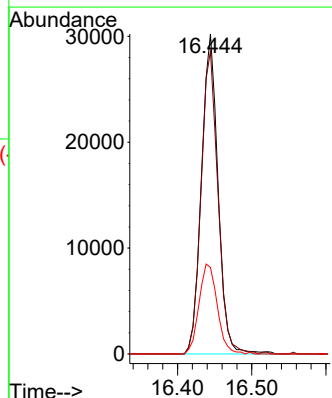
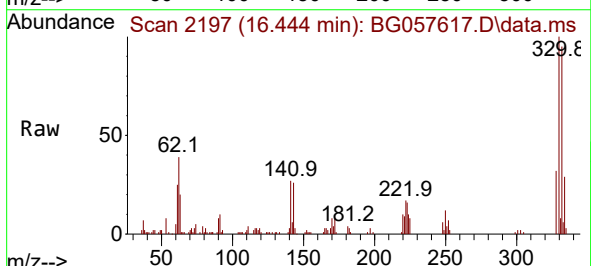
Tgt Ion:330 Resp: 46928

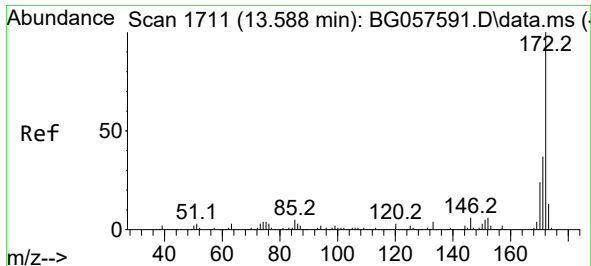
Ion Ratio Lower Upper

330 100

332 95.7 77.3 115.9

141 30.9 24.6 37.0

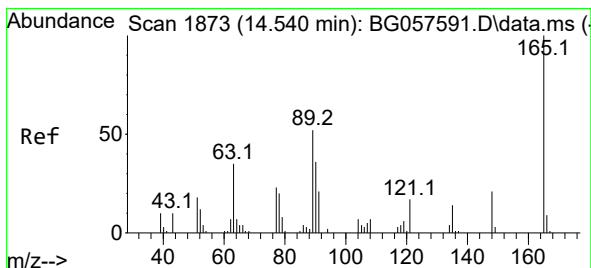
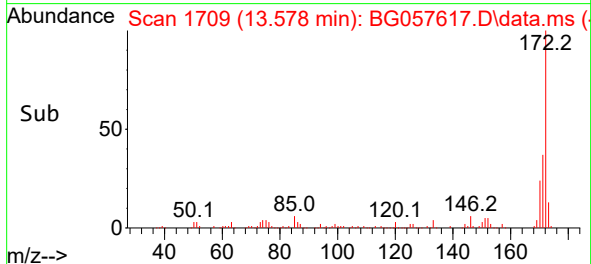
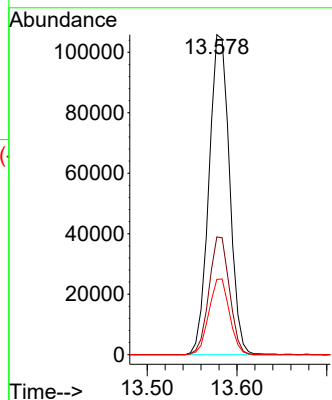
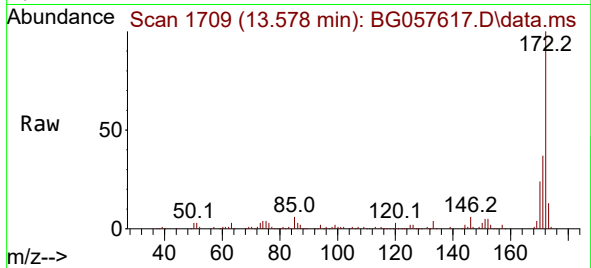




#45
2-Fluorobiphenyl
Concen: 29.688 ng
RT: 13.578 min Scan# 1
Delta R.T. -0.006 min
Lab File: BG057617.D
Acq: 30 May 2023 22:18

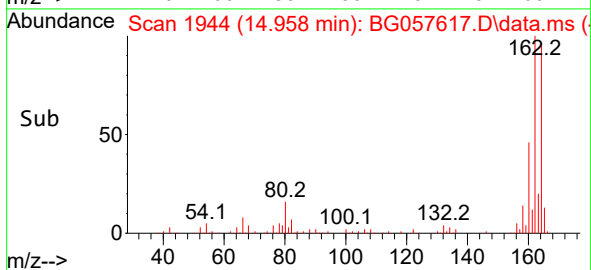
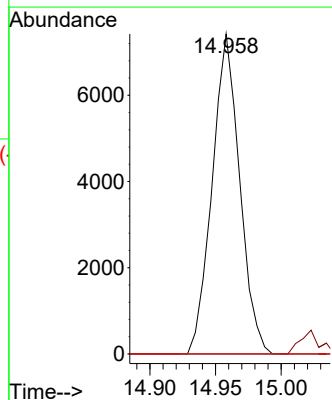
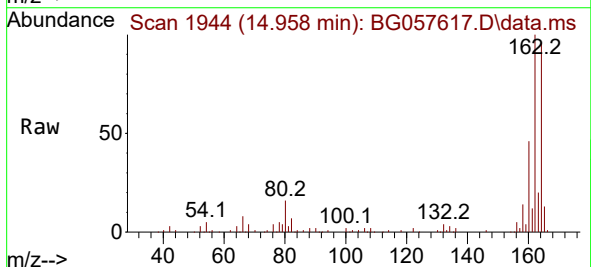
Instrument :
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ClientSampleId :
PNNL-RH-524-2

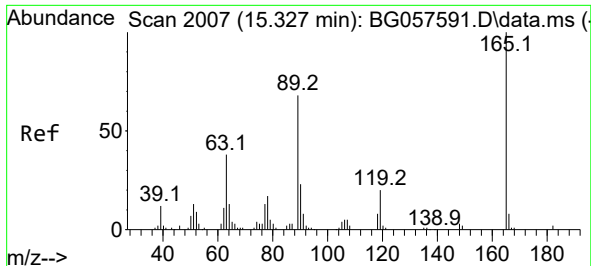
Tgt Ion:172 Resp: 168203
Ion Ratio Lower Upper
172 100
171 36.8 29.2 43.8
170 23.6 19.0 28.4



#51
2,6-Dinitrotoluene
Concen: 7.521 ng
RT: 14.958 min Scan# 1944
Delta R.T. 0.429 min
Lab File: BG057617.D
Acq: 30 May 2023 22:18

Tgt Ion:165 Resp: 10804
Ion Ratio Lower Upper
165 100
63 0.0 39.3 58.9#
89 0.0 41.5 62.3#





#57

2,4-Dinitrotoluene

Concen: 5.023 ng

RT: 14.958 min Scan# 1944

Delta R.T. -0.364 min

Lab File: BG057617.D

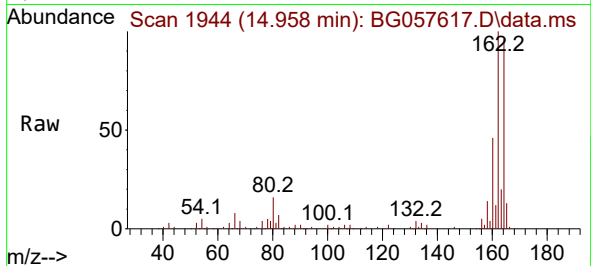
Acq: 30 May 2023 22:18

Instrument :

BNA_G

ClientSampleId :

PNNL-RH-524-2



Tgt Ion:165 Resp: 10804

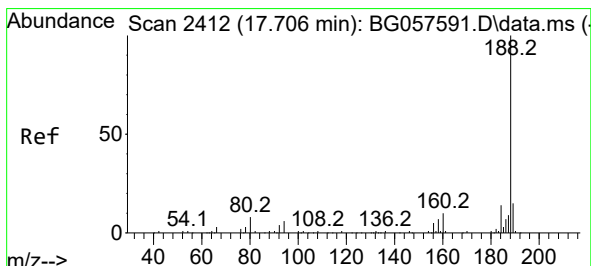
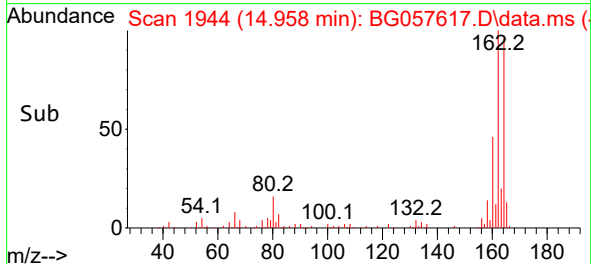
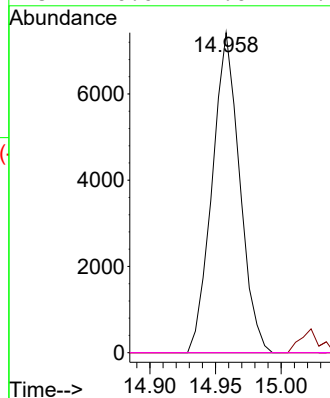
Ion Ratio Lower Upper

165 100

63 0.0 30.6 45.8#

89 0.0 54.2 81.2#

182 0.0 1.6 2.4#



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.696 min Scan# 2410

Delta R.T. -0.000 min

Lab File: BG057617.D

Acq: 30 May 2023 22:18

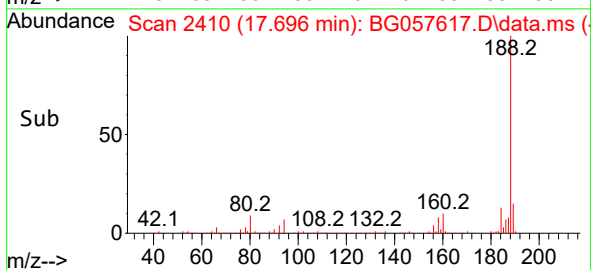
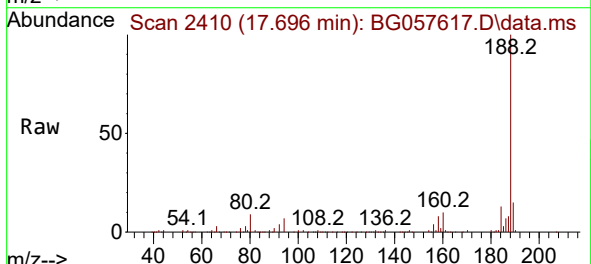
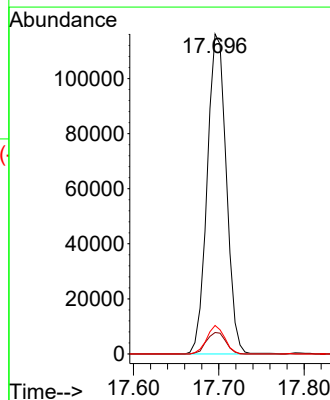
Tgt Ion:188 Resp: 180948

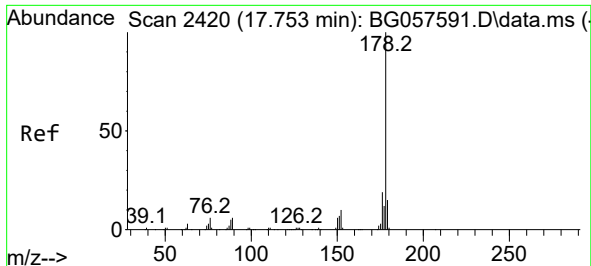
Ion Ratio Lower Upper

188 100

94 6.7 5.2 7.8

80 8.9 6.7 10.1

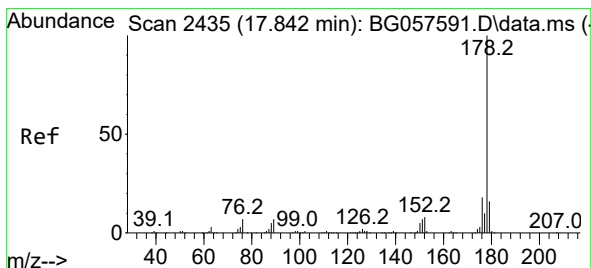
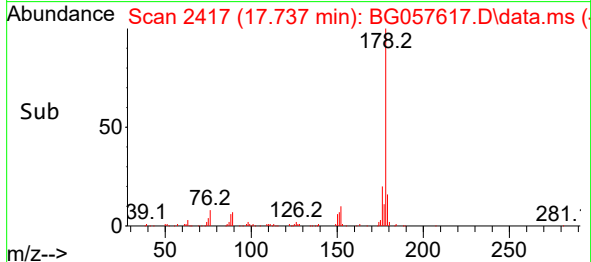
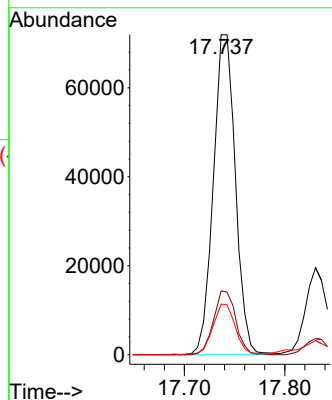
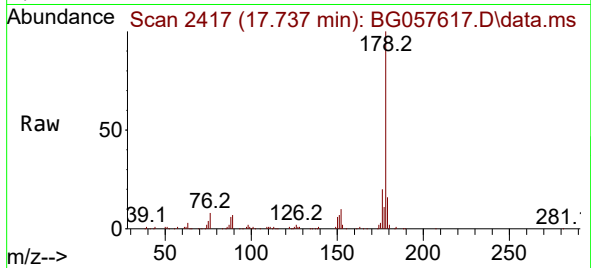




#71
Phenanthrene
Concen: 11.887 ng
RT: 17.737 min Scan# 2417
Delta R.T. -0.006 min
Lab File: BG057617.D
Acq: 30 May 2023 22:18

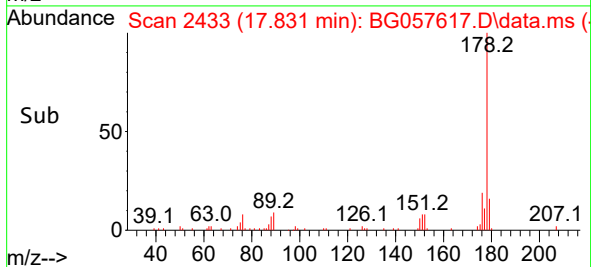
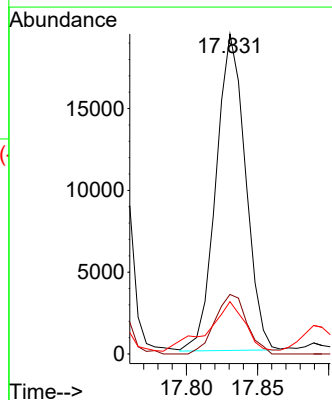
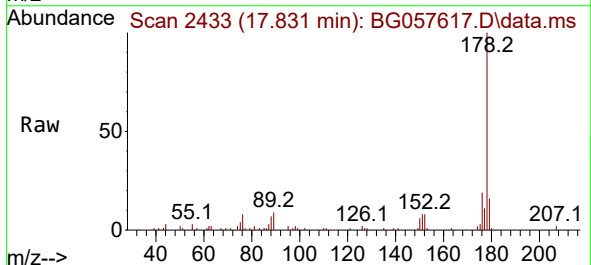
Instrument :
BNA_G
ClientSampleId :
PNNL-RH-524-2

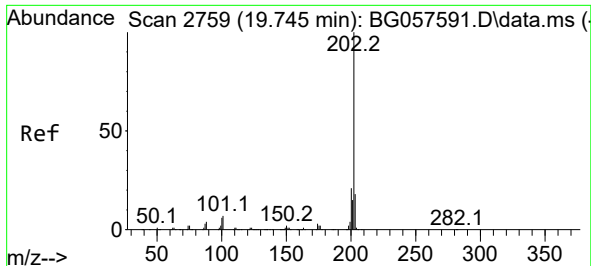
Tgt Ion:178 Resp: 110073
Ion Ratio Lower Upper
178 100
176 20.0 15.3 22.9
179 15.8 12.0 18.0



#72
Anthracene
Concen: 2.937 ng
RT: 17.831 min Scan# 2433
Delta R.T. -0.000 min
Lab File: BG057617.D
Acq: 30 May 2023 22:18

Tgt Ion:178 Resp: 27902
Ion Ratio Lower Upper
178 100
176 18.6 14.6 22.0
179 16.4 12.6 18.8

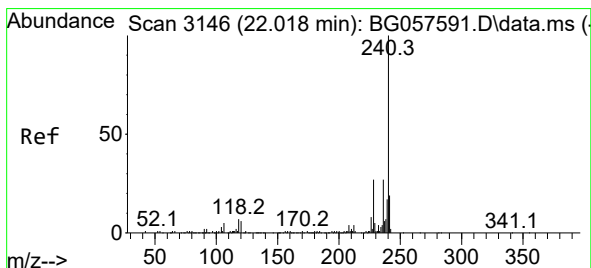
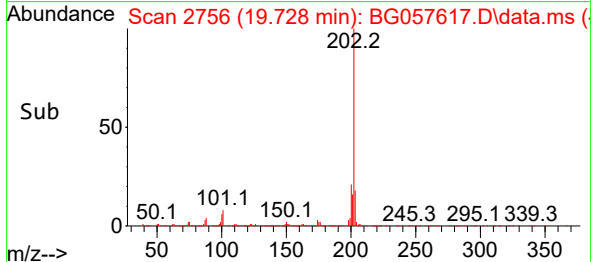
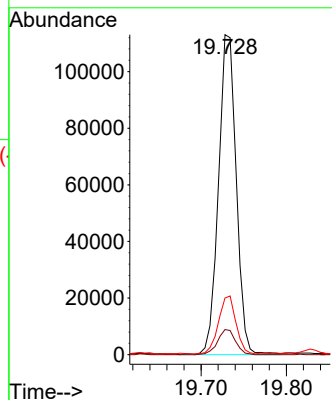
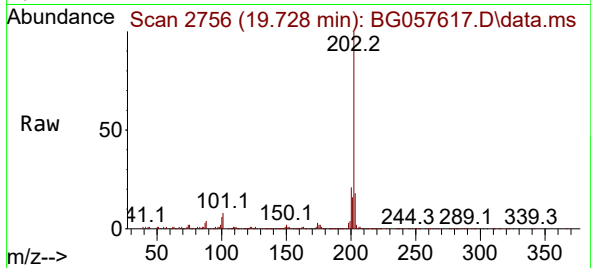




#75
Fluoranthene
Concen: 13.624 ng
RT: 19.728 min Scan# 21
Delta R.T. -0.000 min
Lab File: BG057617.D
Acq: 30 May 2023 22:18

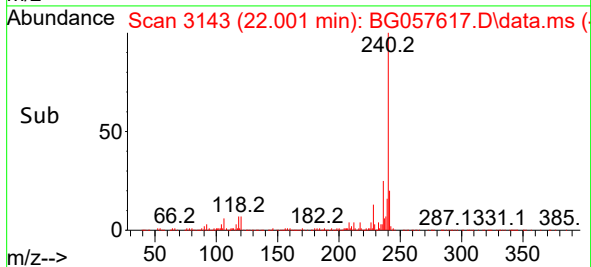
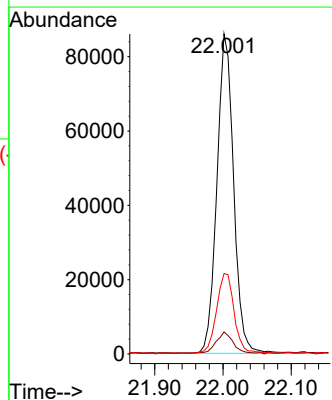
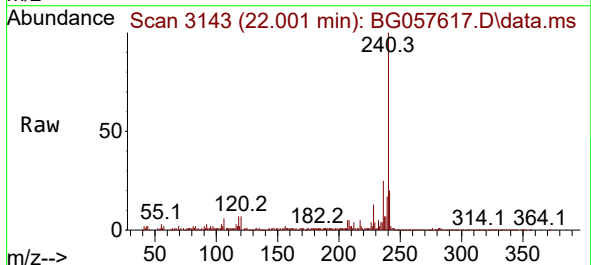
Instrument :
BNA_G
ClientSampleId :
PNNL-RH-524-2

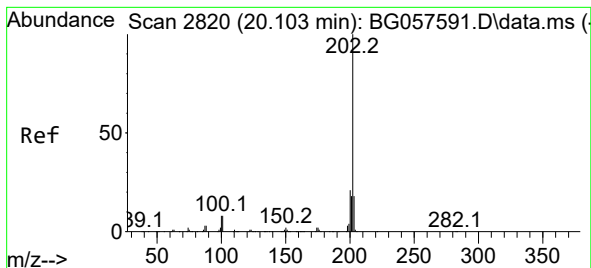
Tgt Ion:202 Resp: 163773
Ion Ratio Lower Upper
202 100
101 7.8 0.0 27.5
203 17.7 0.0 38.4



#76
Chrysene-d12
Concen: 20.000 ng
RT: 22.001 min Scan# 3143
Delta R.T. -0.000 min
Lab File: BG057617.D
Acq: 30 May 2023 22:18

Tgt Ion:240 Resp: 146538
Ion Ratio Lower Upper
240 100
120 6.9 5.2 7.8
236 25.2 21.4 32.0





#78

Pyrene

Concen: 13.378 ng

RT: 20.092 min Scan# 2

Delta R.T. -0.000 min

Lab File: BG057617.D

Acq: 30 May 2023 22:18

Instrument :

BNA_G

ClientSampleId :

PNNL-RH-524-2

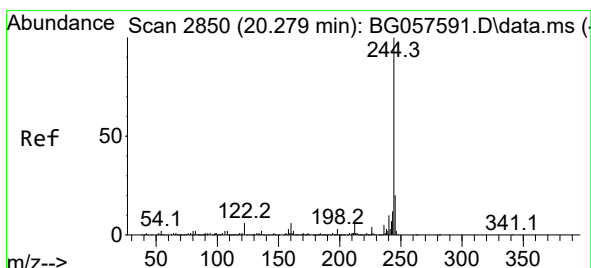
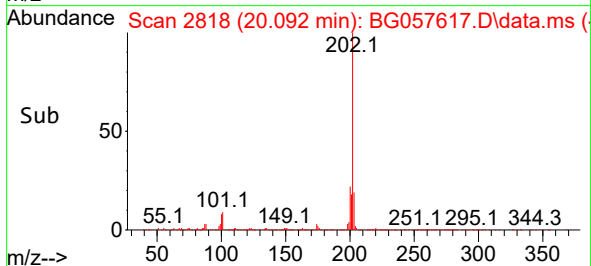
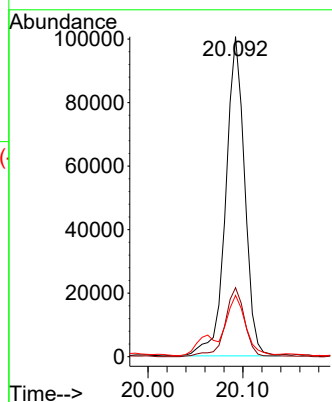
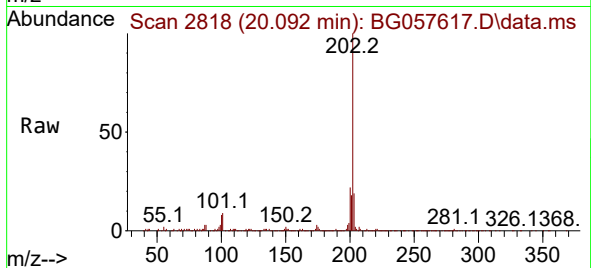
Tgt Ion:202 Resp: 139586

Ion Ratio Lower Upper

202 100

200 21.6 16.8 25.2

203 19.2 14.5 21.7



#79

Terphenyl-d14

Concen: 29.414 ng

RT: 20.263 min Scan# 2847

Delta R.T. -0.006 min

Lab File: BG057617.D

Acq: 30 May 2023 22:18

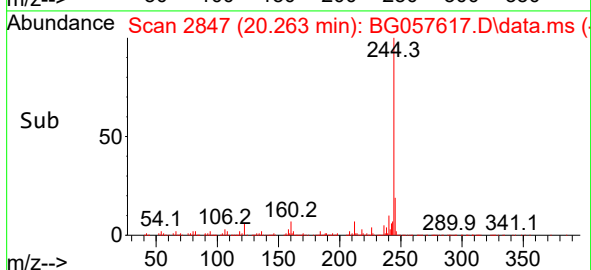
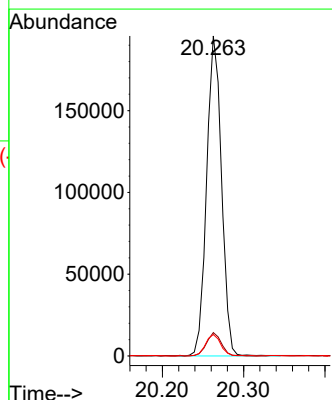
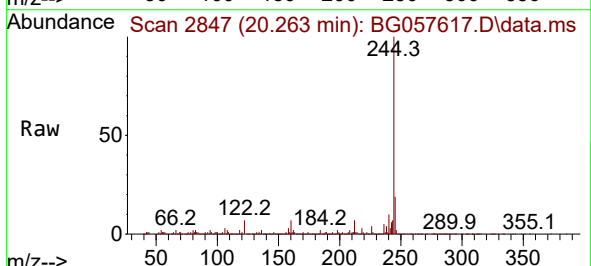
Tgt Ion:244 Resp: 248827

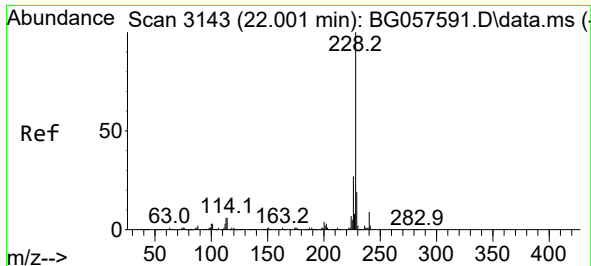
Ion Ratio Lower Upper

244 100

212 7.3 5.6 8.4

122 6.7 4.8 7.2

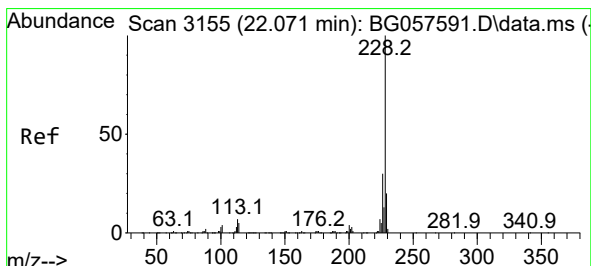
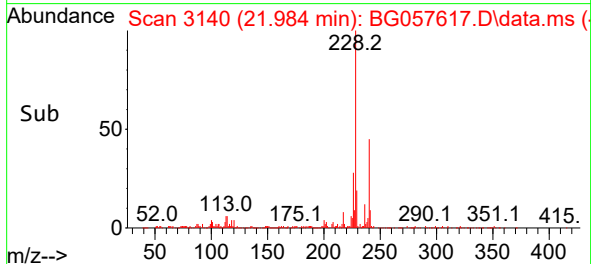
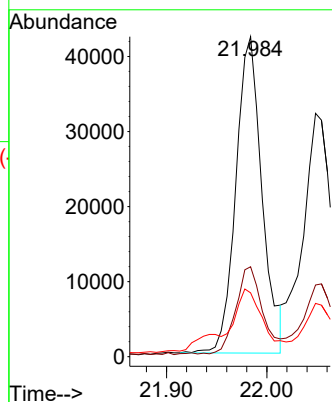
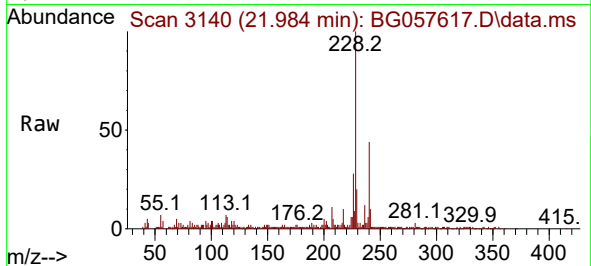




#81
Benzo(a)anthracene
Concen: 7.510 ng
RT: 21.984 min Scan# 3143
Delta R.T. 0.006 min
Lab File: BG057617.D
Acq: 30 May 2023 22:18

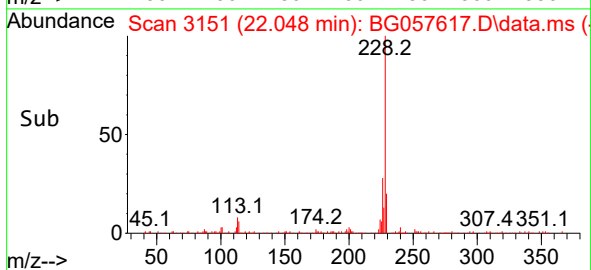
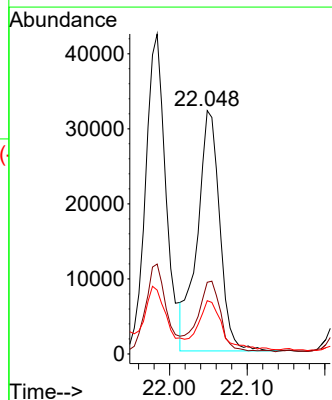
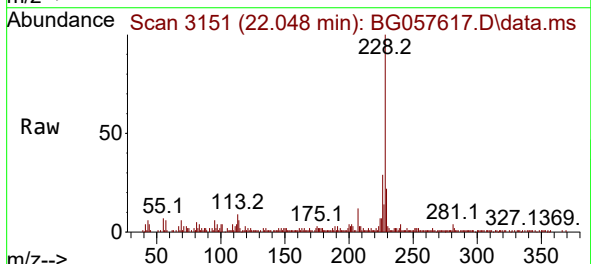
Instrument :
BNA_G
ClientSampleId :
PNNL-RH-524-2

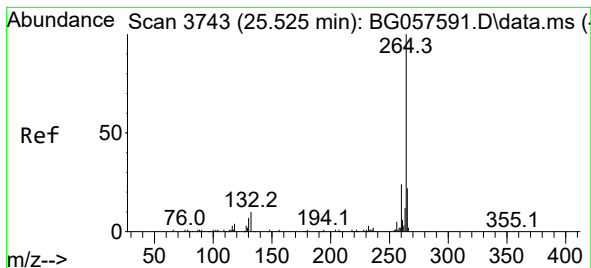
Tgt Ion:228 Resp: 76350
Ion Ratio Lower Upper
228 100
226 28.1 21.4 32.0
229 19.9 15.4 23.2



#83
Chrysene
Concen: 6.715 ng
RT: 22.048 min Scan# 3151
Delta R.T. -0.006 min
Lab File: BG057617.D
Acq: 30 May 2023 22:18

Tgt Ion:228 Resp: 64515
Ion Ratio Lower Upper
228 100
226 29.5 24.3 36.5
229 21.9 16.0 24.0





#86

Perylene-d12

Concen: 20.000 ng

RT: 25.503 min Scan# 31

Delta R.T. 0.011 min

Lab File: BG057617.D

Acq: 30 May 2023 22:18

Instrument :

BNA_G

ClientSampleId :

PNNL-RH-524-2

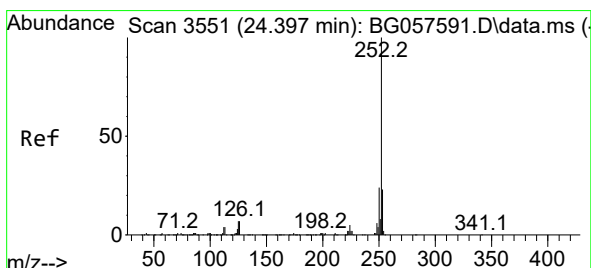
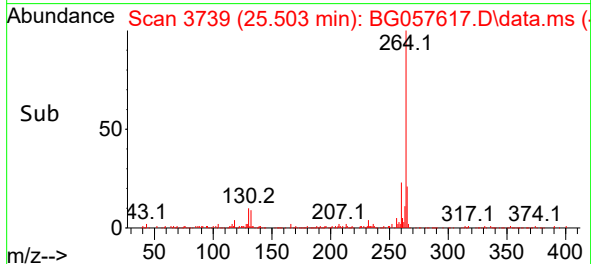
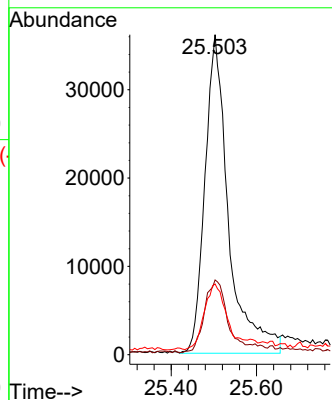
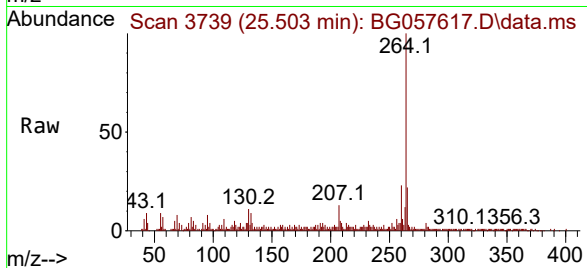
Tgt Ion:264 Resp: 138633

Ion Ratio Lower Upper

264 100

260 23.4 19.1 28.7

265 22.1 17.7 26.5



#88

Benzo(b)fluoranthene

Concen: 7.777 ng

RT: 24.381 min Scan# 3548

Delta R.T. 0.006 min

Lab File: BG057617.D

Acq: 30 May 2023 22:18

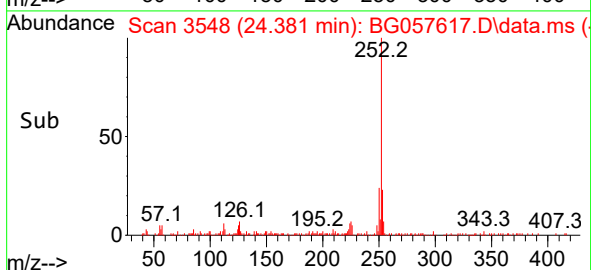
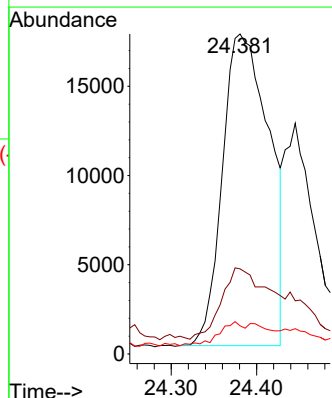
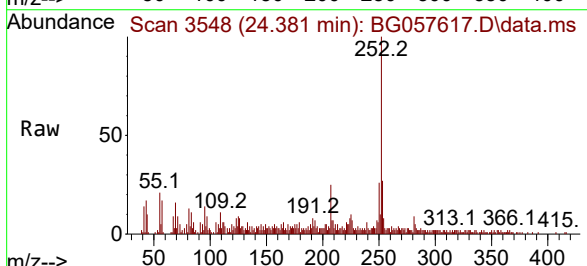
Tgt Ion:252 Resp: 66364

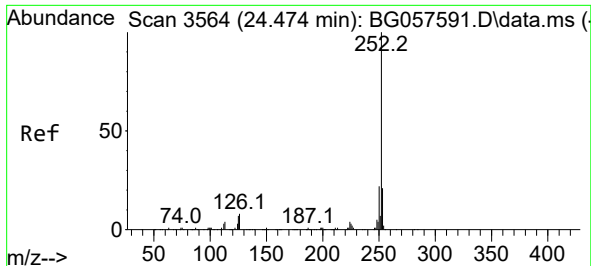
Ion Ratio Lower Upper

252 100

253 26.6 18.4 27.6

125 8.8 5.2 7.8#

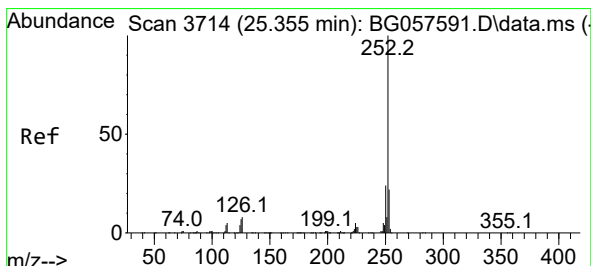
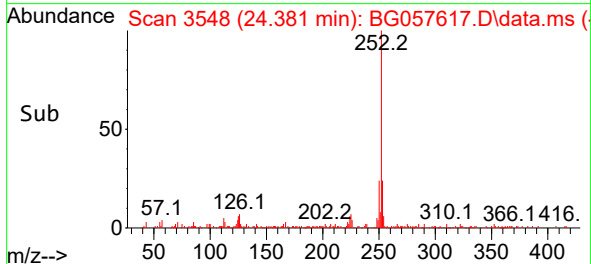
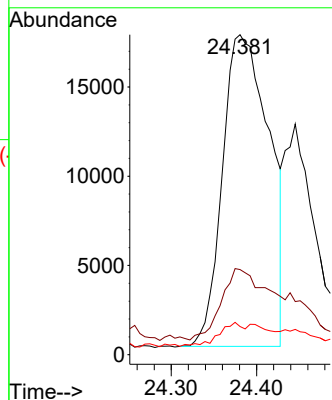
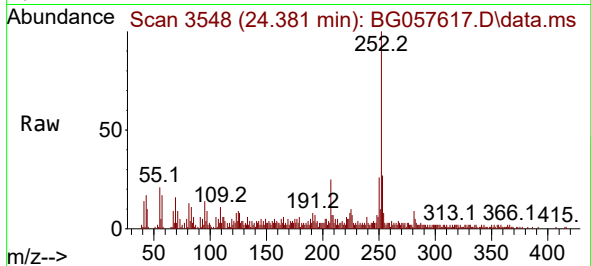




#89
Benzo(k)fluoranthene
Concen: 7.706 ng
RT: 24.381 min Scan# 310
Delta R.T. -0.065 min
Lab File: BG057617.D
Acq: 30 May 2023 22:18

Instrument :
BNA_G
ClientSampleId :
PNNL-RH-524-2

Tgt Ion:252 Resp: 66364
Ion Ratio Lower Upper
252 100
253 26.6 17.0 25.6#
125 8.8 5.1 7.7#



#90
Benzo(a)pyrene
Concen: 6.008 ng
RT: 25.332 min Scan# 3710
Delta R.T. 0.006 min
Lab File: BG057617.D
Acq: 30 May 2023 22:18

Tgt Ion:252 Resp: 49994
Ion Ratio Lower Upper
252 100
253 26.5 17.7 26.5
125 8.6 5.3 7.9#

