

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG042224\
 Data File : BG060989.D
 Acq On : 22 Apr 2024 13:16
 Operator : MA/JU
 Sample : P2189-01
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 CONCRETE-VAULT

Quant Time: Apr 23 02:15:58 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG042024.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 22 04:22:00 2024
 Response via : Initial Calibration

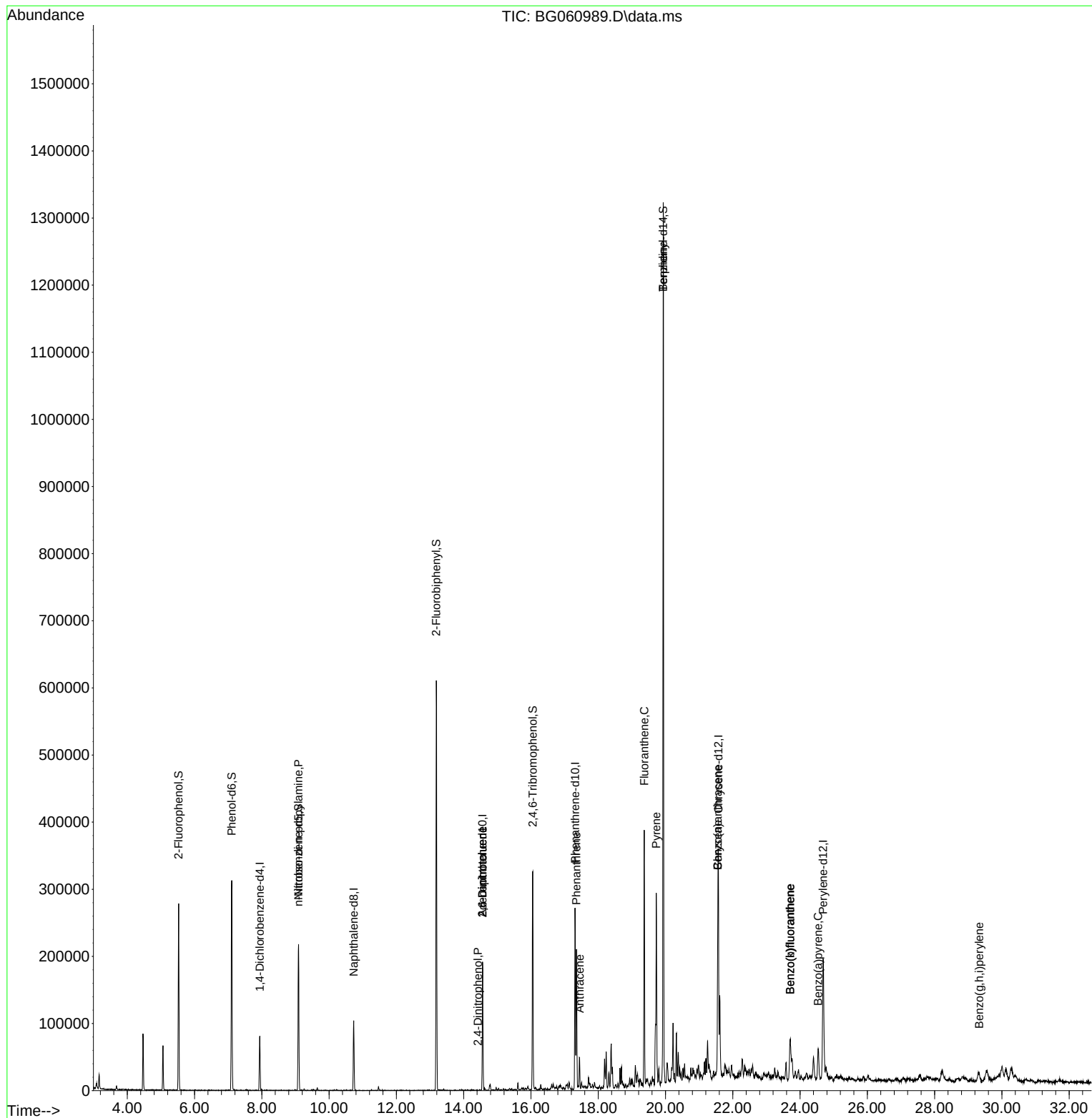
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.941	152	21931	20.000	ng	0.00
21) Naphthalene-d8	10.732	136	81638	20.000	ng	# 0.00
39) Acenaphthene-d10	14.563	164	69734	20.000	ng	0.00
64) Phenanthrene-d10	17.313	188	173613	20.000	ng	0.00
76) Chrysene-d12	21.572	240	171351	20.000	ng	0.00
86) Perylene-d12	24.686	264	207233	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.526	112	96207	88.734	ng	0.00
7) Phenol-d6	7.107	99	142519	88.594	ng	0.00
23) Nitrobenzene-d5	9.093	82	110851	61.006	ng	0.00
42) 2,4,6-Tribromophenol	16.055	330	75290	49.167	ng	0.00
45) 2-Fluorobiphenyl	13.188	172	318505	63.214	ng	0.00
79) Terphenyl-d14	19.933	244	705593	63.918	ng	0.00
Target Compounds						
19) n-Nitroso-di-n-propyla...	9.087	70	17190	14.339	ng	# 68
51) 2,6-Dinitrotoluene	14.563	165	9495	7.914	ng	# 16
54) 2,4-Dinitrophenol	14.422	184	79	5.659	ng	# 12
57) 2,4-Dinitrotoluene	14.563	165	9495	5.495	ng	# 19
71) Phenanthrene	17.354	178	134321	15.157	ng	100
72) Anthracene	17.448	178	31090	3.406	ng	96
75) Fluoranthene	19.369	202	247008	21.003	ng	98
77) Benzidine	19.933	184	11550	3.638	ng	# 89
78) Pyrene	19.727	202	194819	16.698	ng	100
81) Benzo(a)anthracene	21.555	228	107118	8.892	ng	# 95
83) Chrysene	21.555	228	107118	9.339	ng	93
88) Benzo(b)fluoranthene	23.711	252	79196	6.744	ng	100
89) Benzo(k)fluoranthene	23.711	252	79196	6.680	ng	98
90) Benzo(a)pyrene	24.533	252	55584	4.890	ng	94
92) Benzo(g,h,i)perylene	29.328	276	26583	2.283	ng	# 99

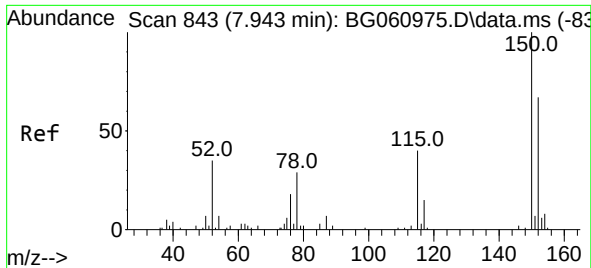
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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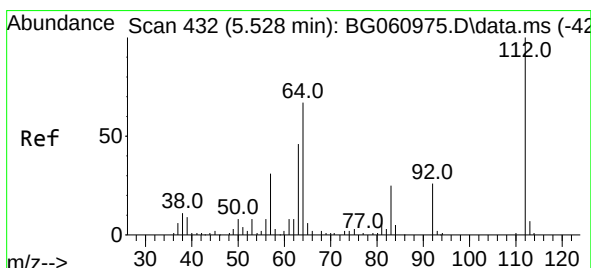
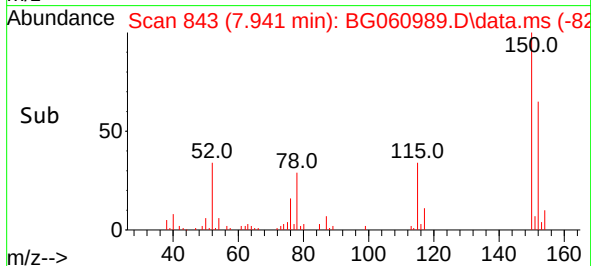
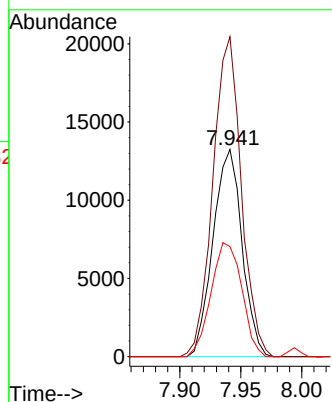
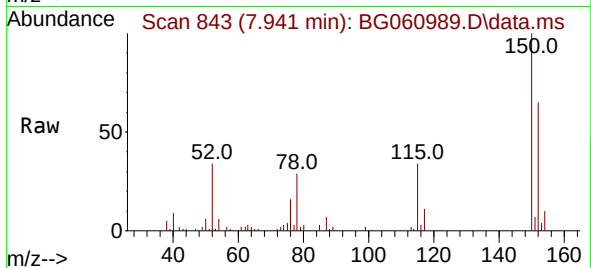




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.941 min Scan# 843
Delta R.T. -0.002 min
Lab File: BG060989.D
Acq: 22 Apr 2024 13:16

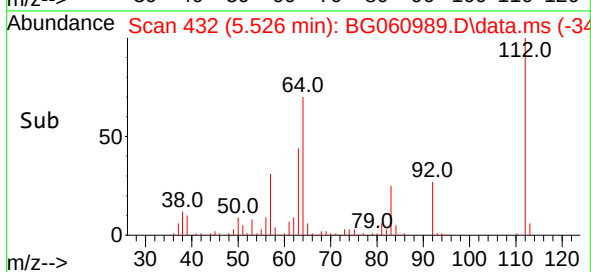
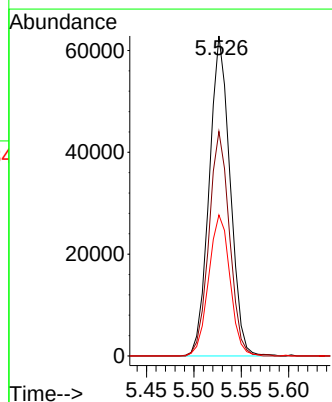
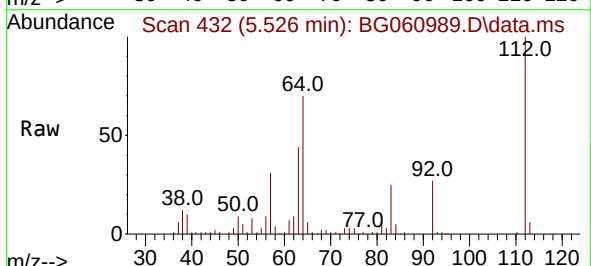
Instrument :
BNA_G
ClientSampleId :
CONCRETE-VAULT

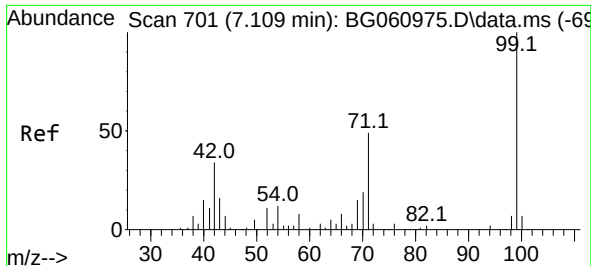
Tgt Ion:152 Resp: 21931
Ion Ratio Lower Upper
152 100
150 154.4 118.6 178.0
115 53.1 47.4 71.0



#5
2-Fluorophenol
Concen: 88.734 ng
RT: 5.526 min Scan# 432
Delta R.T. -0.002 min
Lab File: BG060989.D
Acq: 22 Apr 2024 13:16

Tgt Ion:112 Resp: 96207
Ion Ratio Lower Upper
112 100
64 70.2 53.7 80.5
63 44.1 37.0 55.6

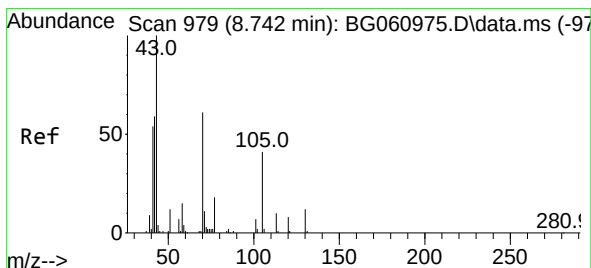
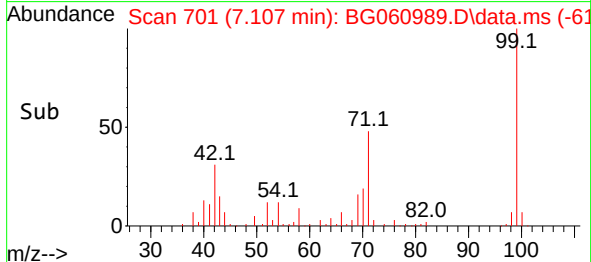
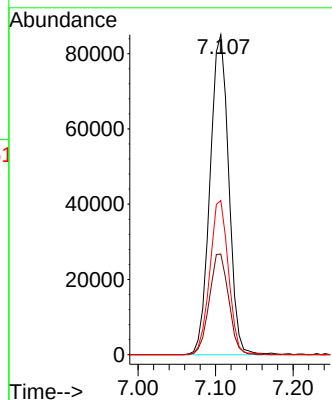
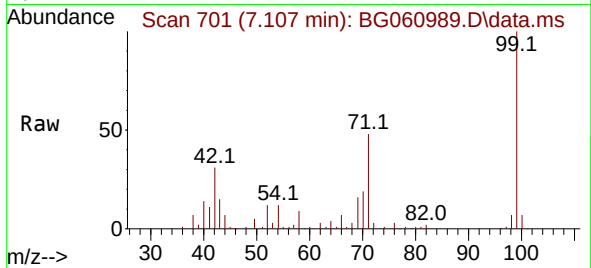




#7
Phenol-d6
Concen: 88.594 ng
RT: 7.107 min Scan# 701
Delta R.T. -0.002 min
Lab File: BG060989.D
Acq: 22 Apr 2024 13:16

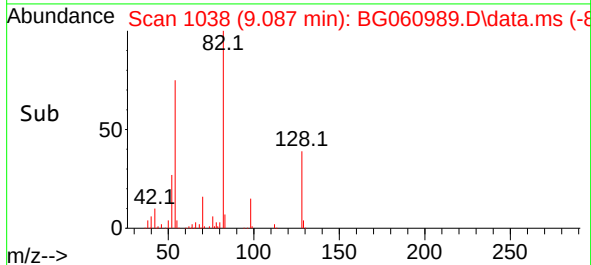
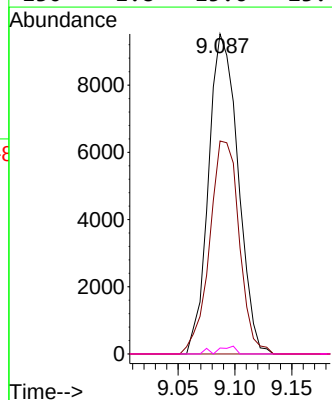
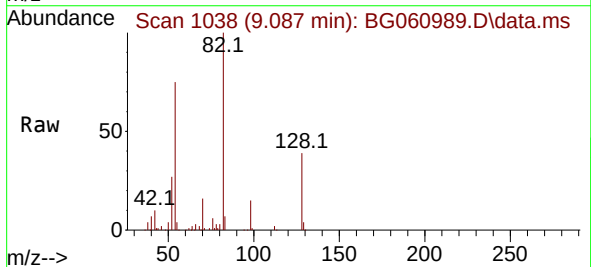
Instrument :
BNA_G
ClientSampleId :
CONCRETE-VAULT

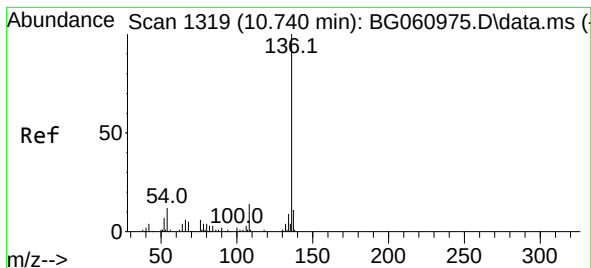
Tgt Ion: 99 Resp: 142519
Ion Ratio Lower Upper
99 100
42 31.5 27.2 40.8
71 48.1 38.8 58.2



#19
n-Nitroso-di-n-propylamine
Concen: 14.339 ng
RT: 9.087 min Scan# 1038
Delta R.T. 0.345 min
Lab File: BG060989.D
Acq: 22 Apr 2024 13:16

Tgt Ion: 70 Resp: 17190
Ion Ratio Lower Upper
70 100
42 66.5 78.0 117.0#
101 0.0 8.6 13.0#
130 1.8 15.6 23.4#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.732 min Scan# 1318

Delta R.T. -0.008 min

Lab File: BG060989.D

Acq: 22 Apr 2024 13:16

Instrument :

BNA_G

ClientSampleId :

CONCRETE-VAULT

Tgt Ion:136 Resp: 81638

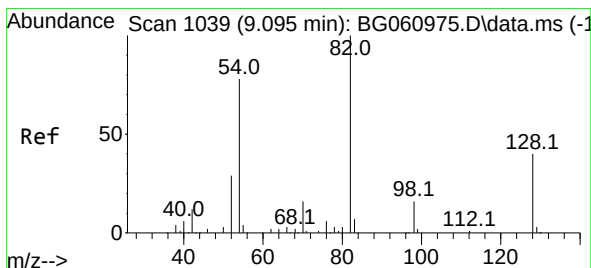
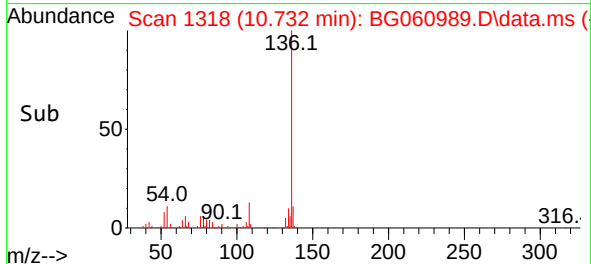
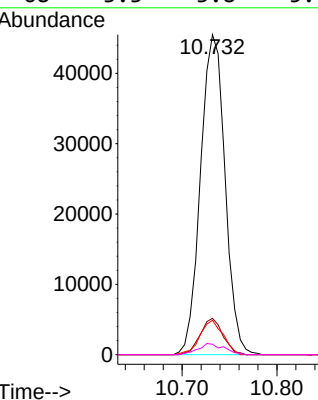
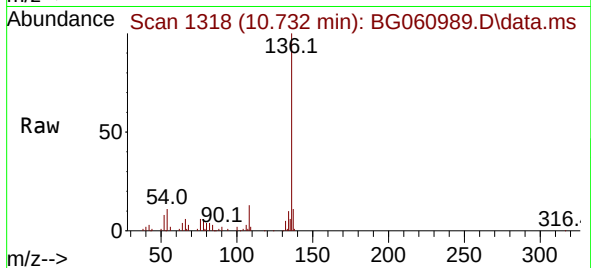
Ion Ratio Lower Upper

136 100

137 11.4 8.5 12.7

54 10.8 9.4 14.0

68 3.3 3.8 5.6#



#23

Nitrobenzene-d5

Concen: 61.006 ng

RT: 9.093 min Scan# 1039

Delta R.T. -0.002 min

Lab File: BG060989.D

Acq: 22 Apr 2024 13:16

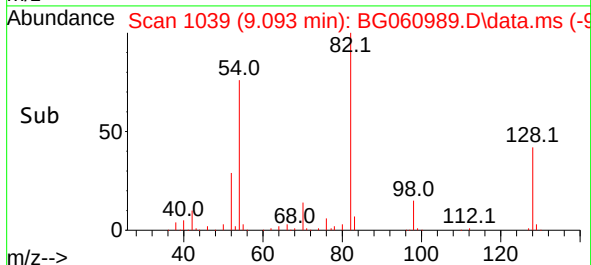
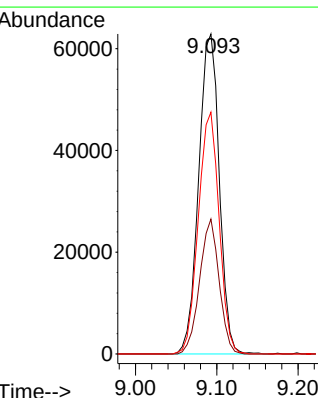
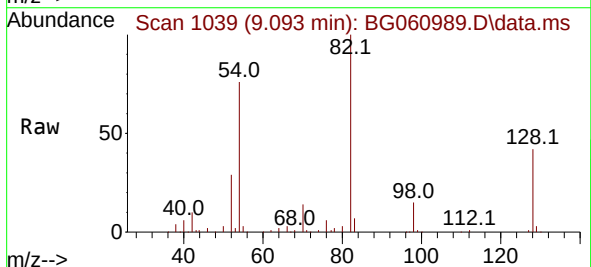
Tgt Ion: 82 Resp: 110851

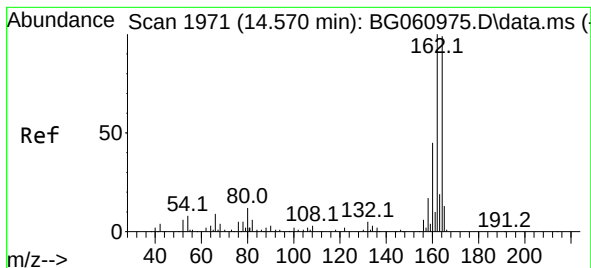
Ion Ratio Lower Upper

82 100

128 42.2 32.1 48.1

54 75.6 62.3 93.5





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.563 min Scan# 1971

Delta R.T. -0.008 min

Lab File: BG060989.D

Acq: 22 Apr 2024 13:16

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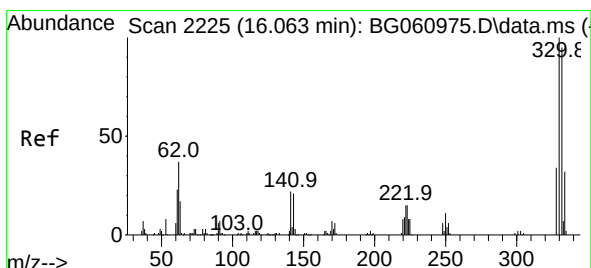
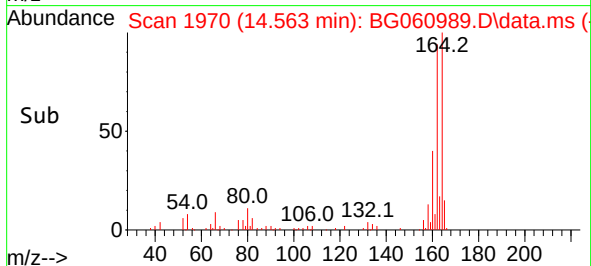
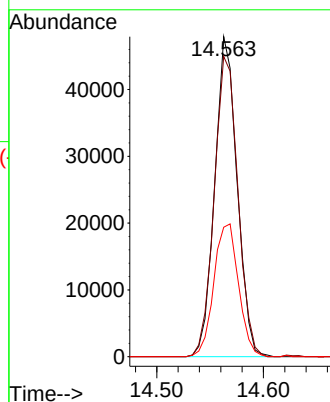
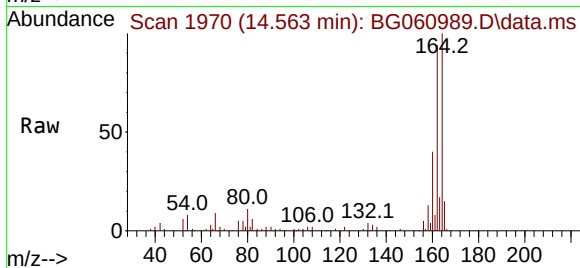
Tgt Ion:164 Resp: 69734

Ion Ratio Lower Upper

164 100

162 93.8 81.2 121.8

160 40.4 36.2 54.2



#42

2,4,6-Tribromophenol

Concen: 49.167 ng

RT: 16.055 min Scan# 2224

Delta R.T. -0.008 min

Lab File: BG060989.D

Acq: 22 Apr 2024 13:16

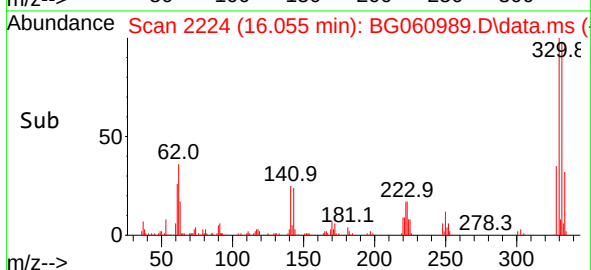
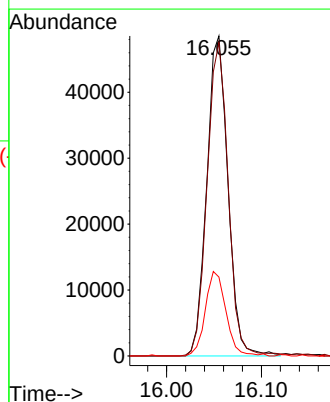
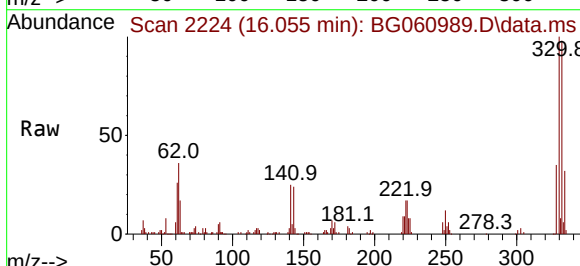
Tgt Ion:330 Resp: 75290

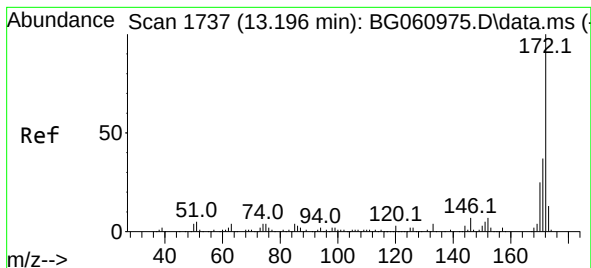
Ion Ratio Lower Upper

330 100

332 97.6 77.1 115.7

141 25.6 20.6 31.0





#45

2-Fluorobiphenyl

Concen: 63.214 ng

RT: 13.188 min Scan# 1

Delta R.T. -0.008 min

Lab File: BG060989.D

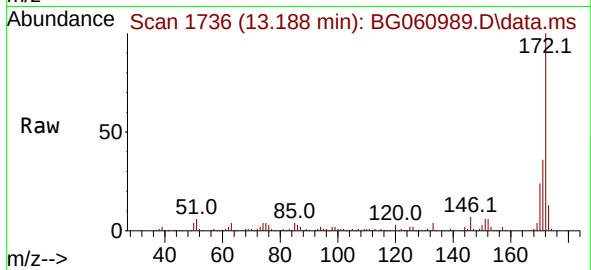
Acq: 22 Apr 2024 13:16

Instrument :

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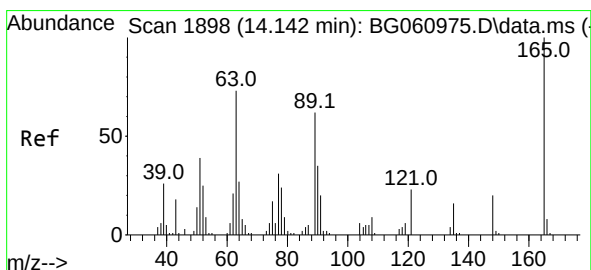
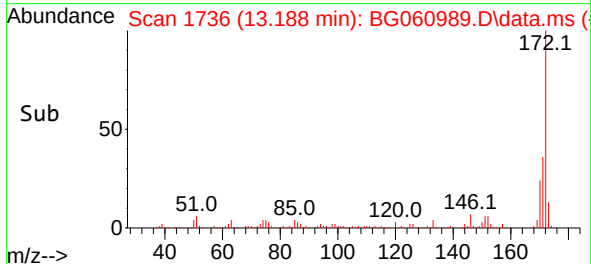
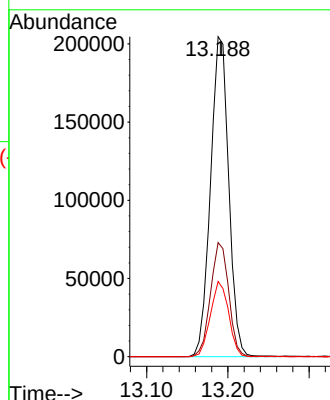
Tgt Ion:172 Resp: 318505

Ion Ratio Lower Upper

172 100

171 35.7 29.3 43.9

170 23.5 20.1 30.1



#51

2,6-Dinitrotoluene

Concen: 7.914 ng

RT: 14.563 min Scan# 1970

Delta R.T. 0.421 min

Lab File: BG060989.D

Acq: 22 Apr 2024 13:16

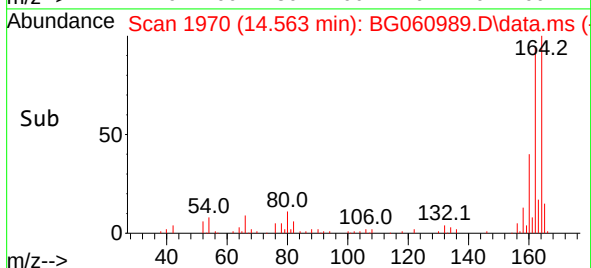
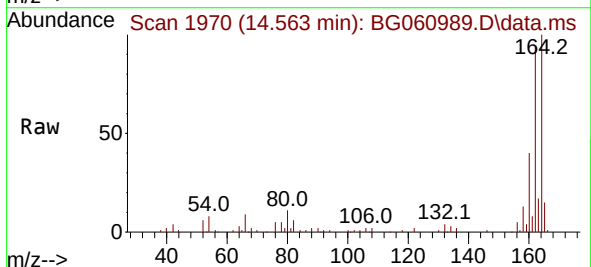
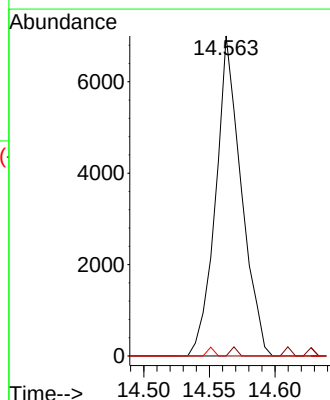
Tgt Ion:165 Resp: 9495

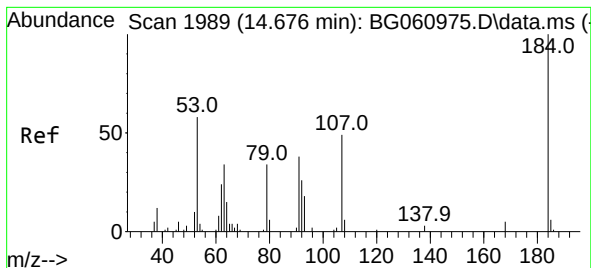
Ion Ratio Lower Upper

165 100

63 0.0 59.6 89.4#

89 0.0 49.4 74.0#

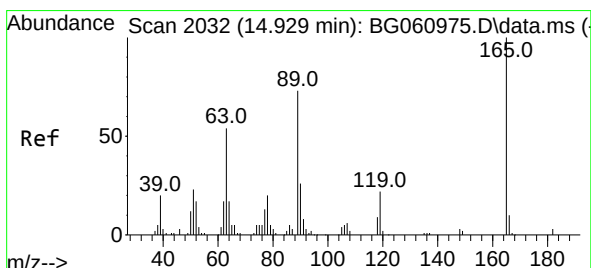
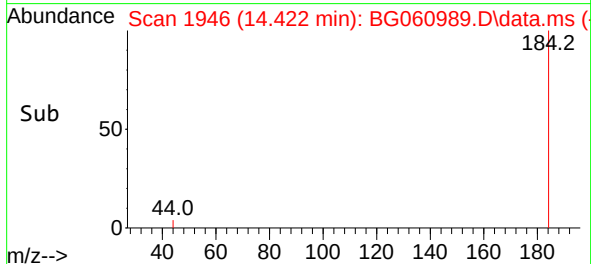
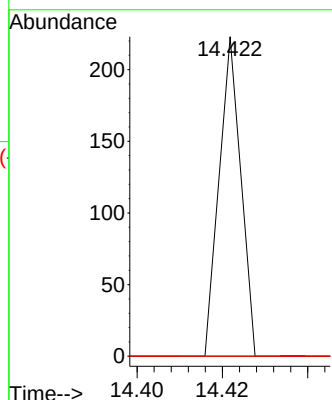
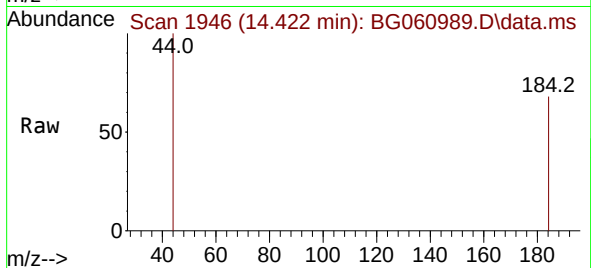




#54
2,4-Dinitrophenol
Concen: 5.659 ng
RT: 14.422 min Scan# 1946
Delta R.T. -0.254 min
Lab File: BG060989.D
Acq: 22 Apr 2024 13:16

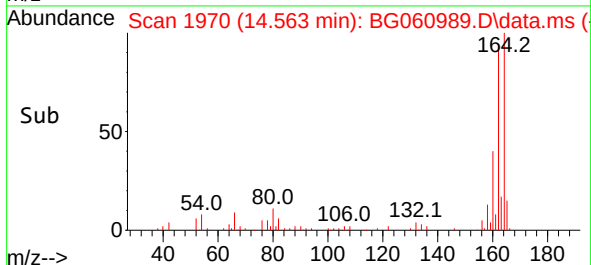
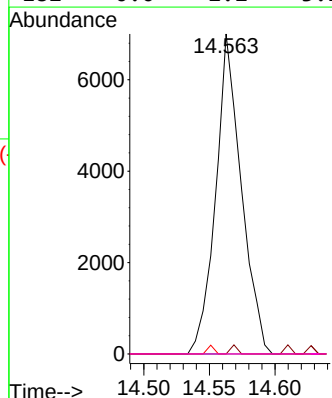
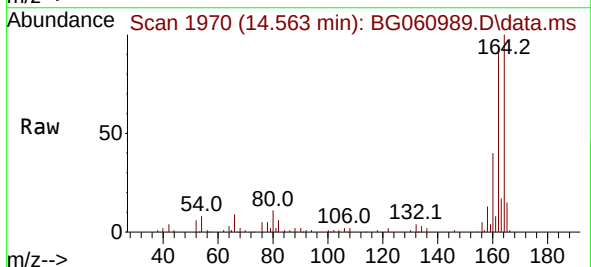
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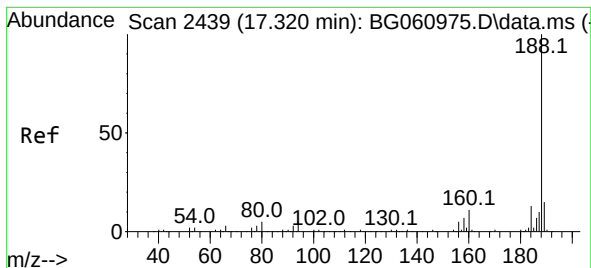
Tgt Ion:184 Resp: 79
Ion Ratio Lower Upper
184 100
63 0.0 59.0 88.6#
154 0.0 61.2 91.8#



#57
2,4-Dinitrotoluene
Concen: 5.495 ng
RT: 14.563 min Scan# 1970
Delta R.T. -0.366 min
Lab File: BG060989.D
Acq: 22 Apr 2024 13:16

Tgt Ion:165 Resp: 9495
Ion Ratio Lower Upper
165 100
63 0.0 43.4 65.2#
89 0.0 58.4 87.6#
182 0.0 2.2 3.2#





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.313 min Scan# 2438

Delta R.T. -0.008 min

Lab File: BG060989.D

Acq: 22 Apr 2024 13:16

Instrument :

BNA_G

ClientSampleId :

CONCRETE-VAULT

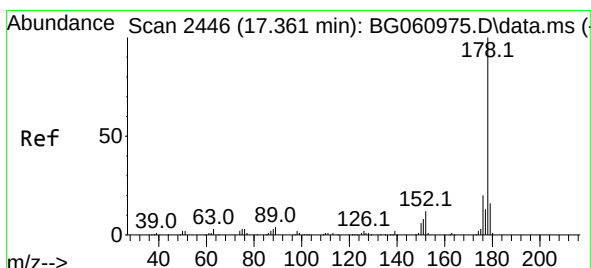
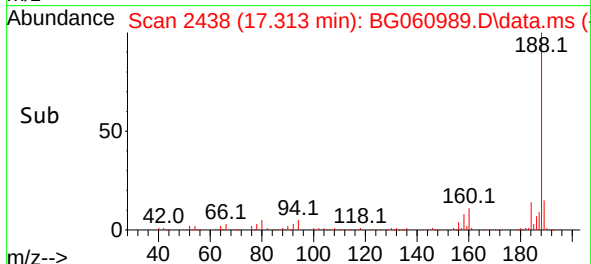
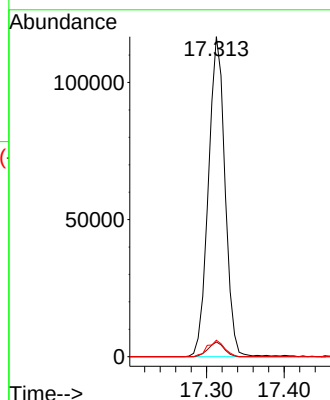
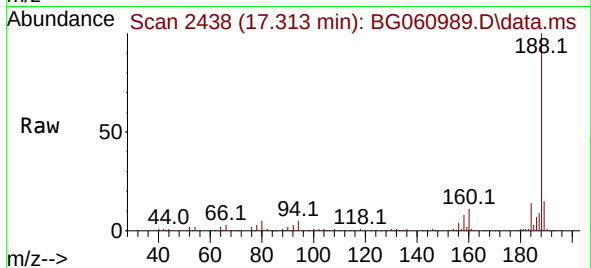
Tgt Ion:188 Resp: 173613

Ion Ratio Lower Upper

188 100

94 4.6 4.1 6.1

80 5.2 4.0 6.0



#71

Phenanthrene

Concen: 15.157 ng

RT: 17.354 min Scan# 2445

Delta R.T. -0.007 min

Lab File: BG060989.D

Acq: 22 Apr 2024 13:16

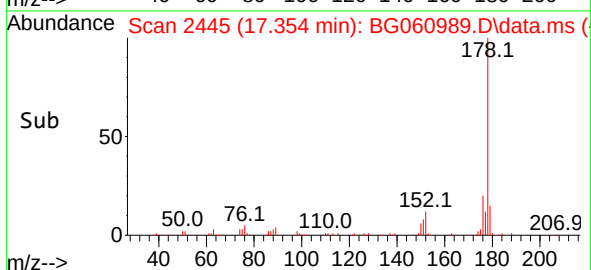
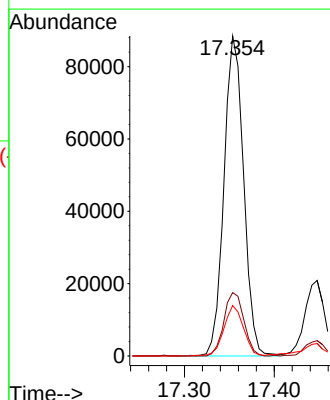
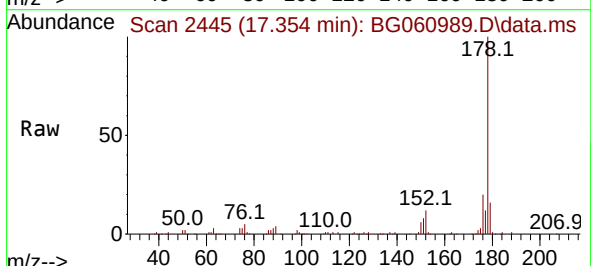
Tgt Ion:178 Resp: 134321

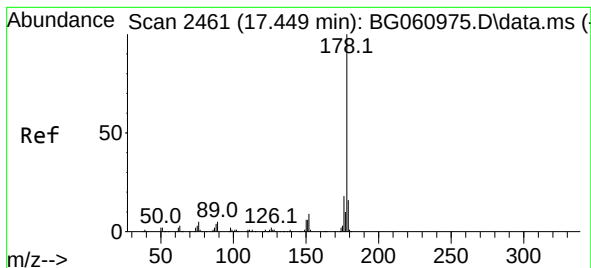
Ion Ratio Lower Upper

178 100

176 19.8 16.0 24.0

179 15.7 12.5 18.7





#72

Anthracene

Concen: 3.406 ng

RT: 17.448 min Scan# 2461

Delta R.T. -0.002 min

Lab File: BG060989.D

Acq: 22 Apr 2024 13:16

Instrument :

BNA_G

ClientSampleId :

CONCRETE-VAULT

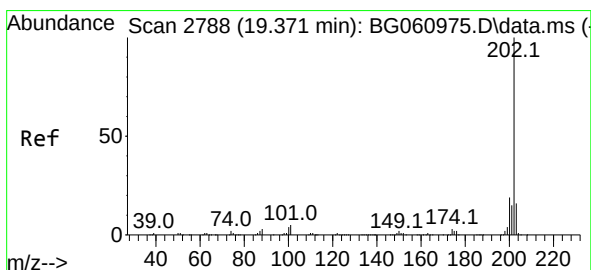
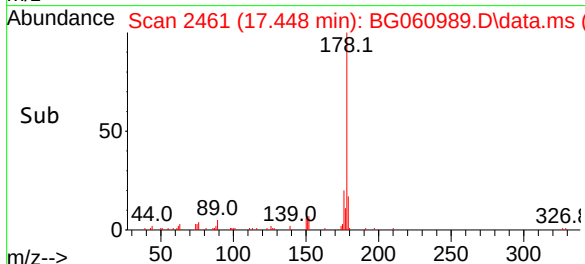
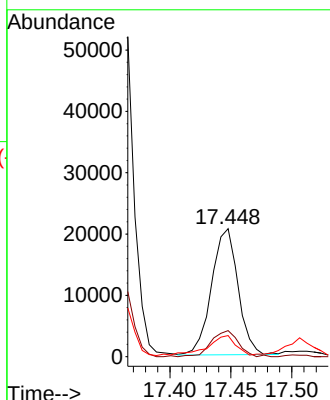
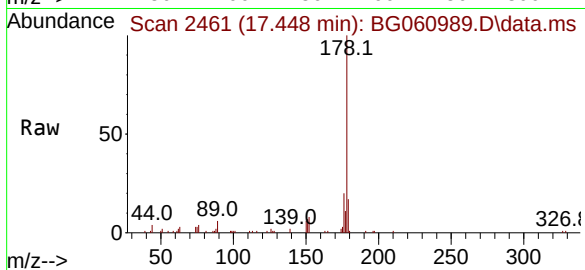
Tgt Ion:178 Resp: 31090

Ion Ratio Lower Upper

178 100

176 20.4 14.7 22.1

179 16.6 12.4 18.6



#75

Fluoranthene

Concen: 21.003 ng

RT: 19.369 min Scan# 2788

Delta R.T. -0.002 min

Lab File: BG060989.D

Acq: 22 Apr 2024 13:16

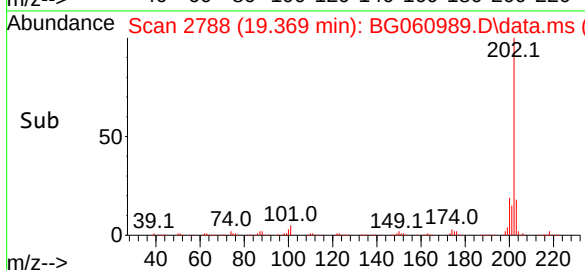
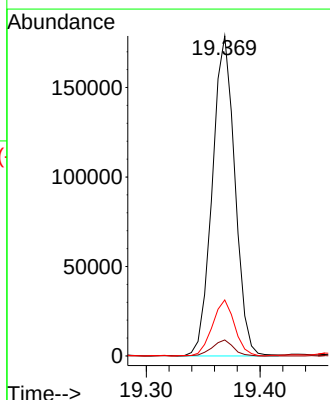
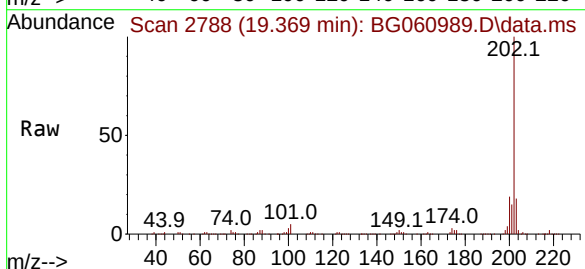
Tgt Ion:202 Resp: 247008

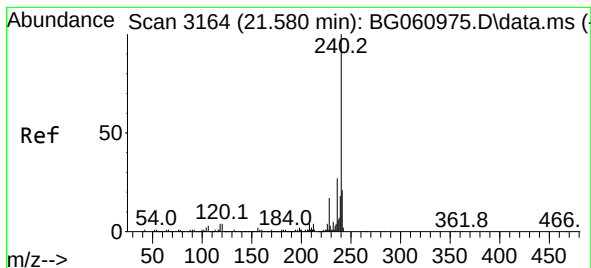
Ion Ratio Lower Upper

202 100

101 5.0 0.0 24.9

203 17.5 0.0 36.2





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.572 min Scan# 31

Delta R.T. -0.008 min

Lab File: BG060989.D

Acq: 22 Apr 2024 13:16

Instrument :

BNA_G

ClientSampleId :

CONCRETE-VAULT

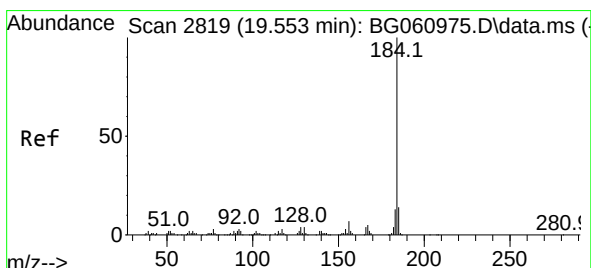
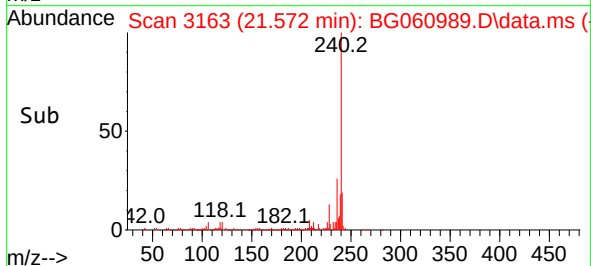
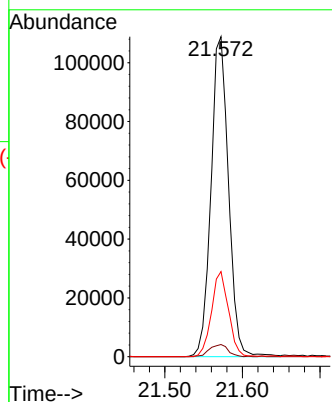
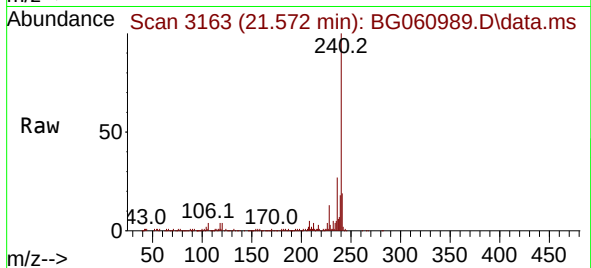
Tgt Ion:240 Resp: 171351

Ion Ratio Lower Upper

240 100

120 3.8 3.0 4.6

236 26.6 21.8 32.6



#77

Benzdine

Concen: 3.638 ng

RT: 19.933 min Scan# 2884

Delta R.T. 0.380 min

Lab File: BG060989.D

Acq: 22 Apr 2024 13:16

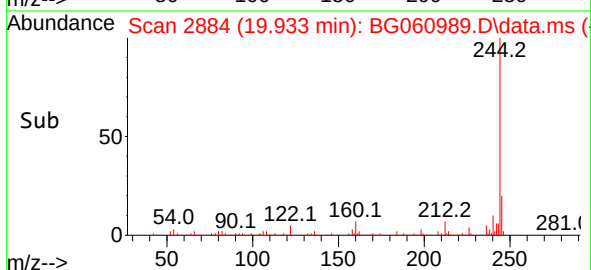
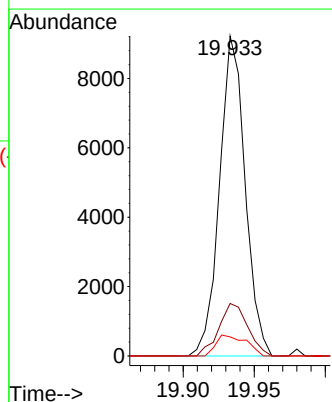
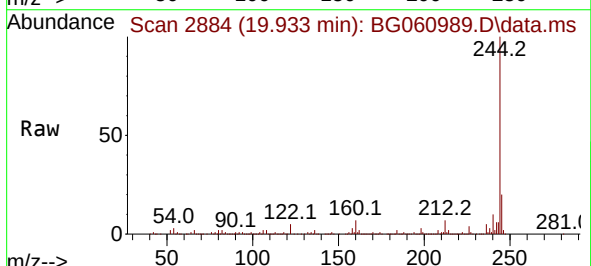
Tgt Ion:184 Resp: 11550

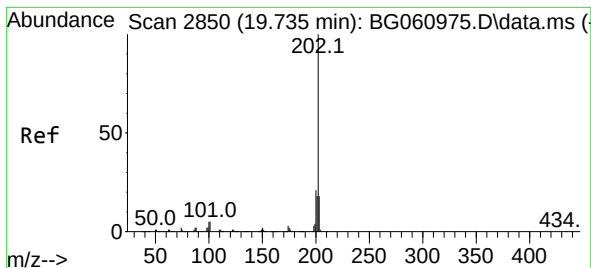
Ion Ratio Lower Upper

184 100

185 16.4 11.3 16.9

183 5.9 10.2 15.2#





#78

Pyrene

Concen: 16.698 ng

RT: 19.727 min Scan# 21

Delta R.T. -0.008 min

Lab File: BG060989.D

Acq: 22 Apr 2024 13:16

Instrument :

BNA_G

ClientSampleId :

CONCRETE-VAULT

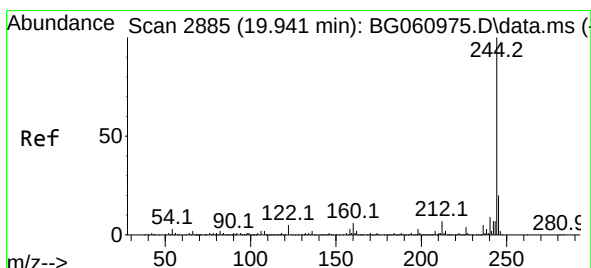
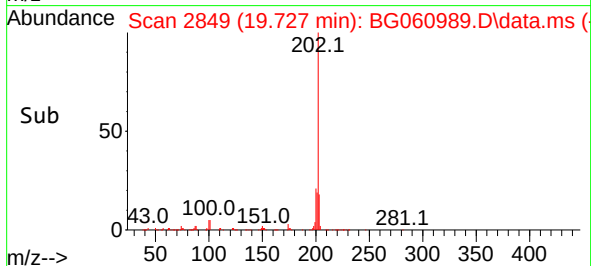
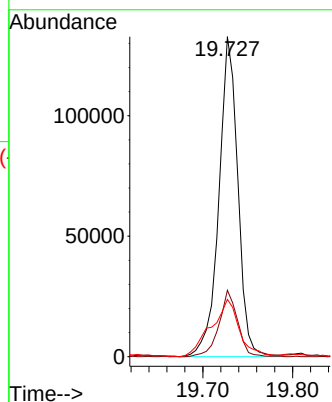
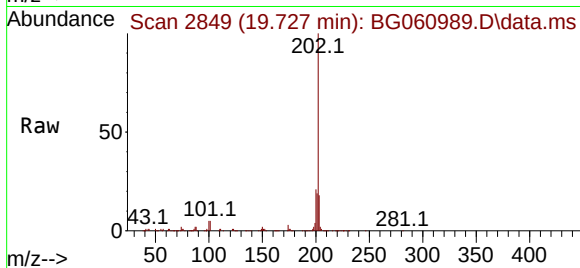
Tgt Ion:202 Resp: 194819

Ion Ratio Lower Upper

202 100

200 20.8 16.8 25.2

203 17.9 14.2 21.2



#79

Terphenyl-d14

Concen: 63.918 ng

RT: 19.933 min Scan# 2884

Delta R.T. -0.008 min

Lab File: BG060989.D

Acq: 22 Apr 2024 13:16

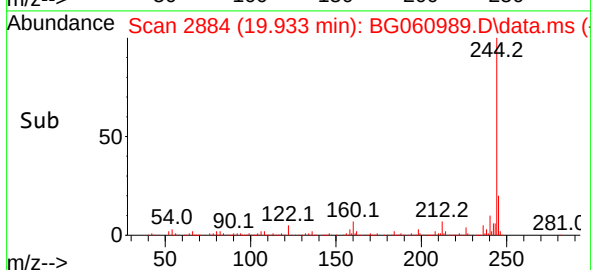
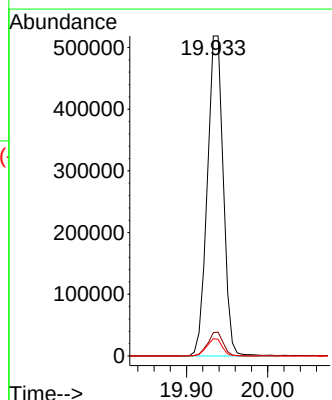
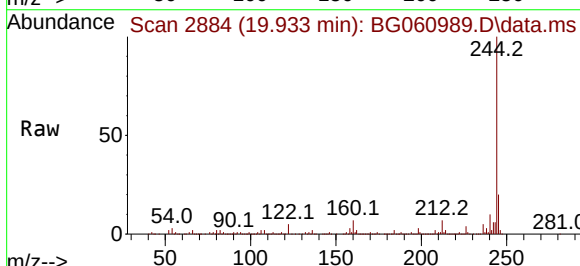
Tgt Ion:244 Resp: 705593

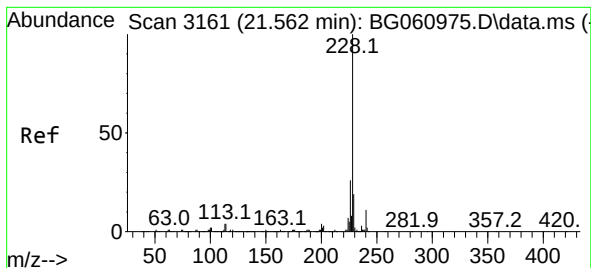
Ion Ratio Lower Upper

244 100

212 7.3 5.9 8.9

122 5.4 4.2 6.2





#81

Benzo(a)anthracene

Concen: 8.892 ng

RT: 21.555 min Scan# 3160

Delta R.T. -0.008 min

Lab File: BG060989.D

Acq: 22 Apr 2024 13:16

Instrument :

BNA_G

ClientSampleId :

CONCRETE-VAULT

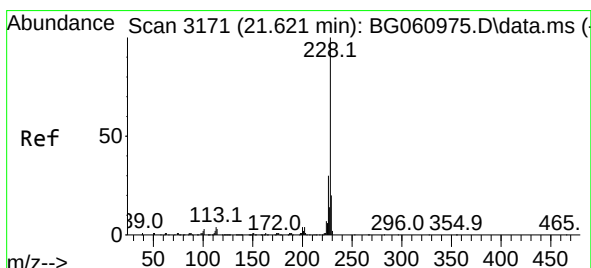
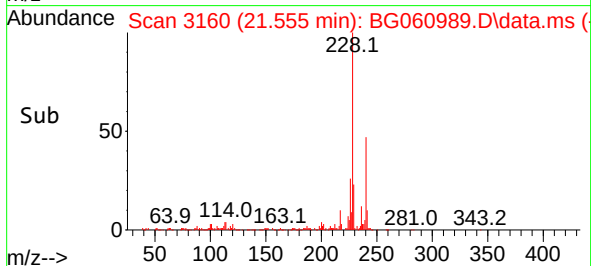
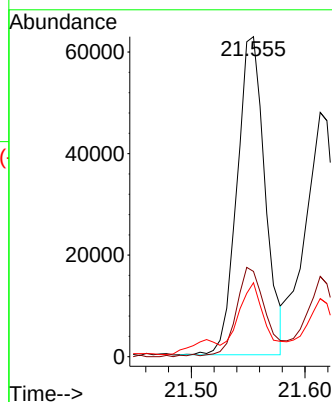
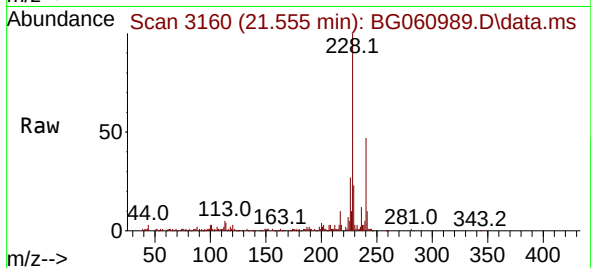
Tgt Ion:228 Resp: 107118

Ion Ratio Lower Upper

228 100

226 26.7 21.0 31.4

229 23.1 15.0 22.4#



#83

Chrysene

Concen: 9.339 ng

RT: 21.555 min Scan# 3160

Delta R.T. -0.066 min

Lab File: BG060989.D

Acq: 22 Apr 2024 13:16

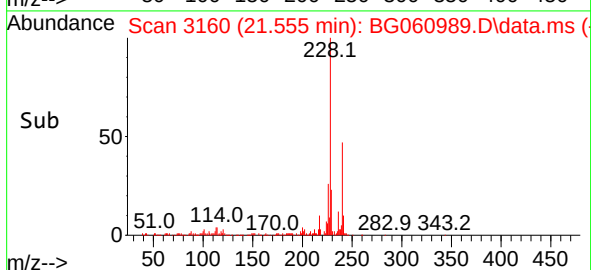
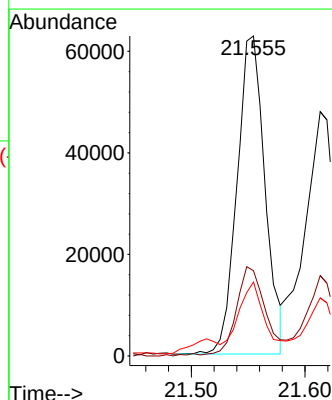
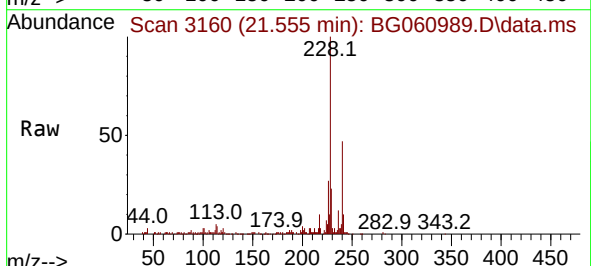
Tgt Ion:228 Resp: 107118

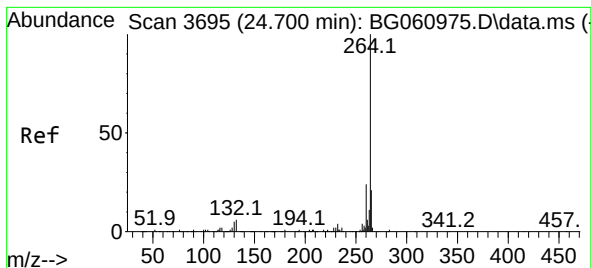
Ion Ratio Lower Upper

228 100

226 26.7 24.2 36.2

229 23.1 15.7 23.5





#86

Perylene-d12

Concen: 20.000 ng

RT: 24.686 min Scan# 3

Delta R.T. -0.014 min

Lab File: BG060989.D

Acq: 22 Apr 2024 13:16

Instrument :

BNA_G

ClientSampleId :

CONCRETE-VAULT

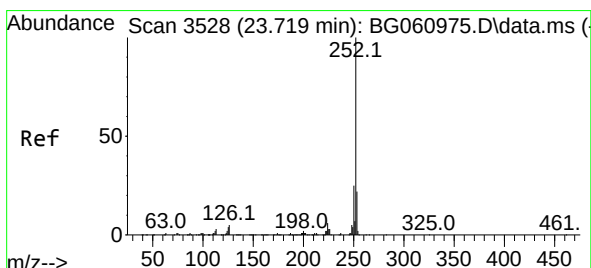
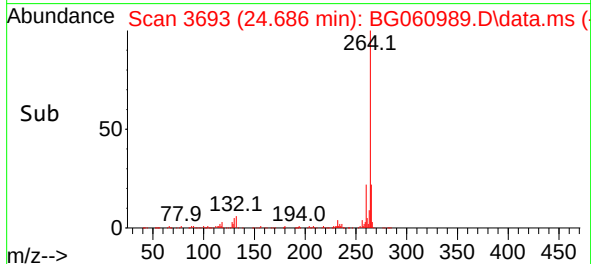
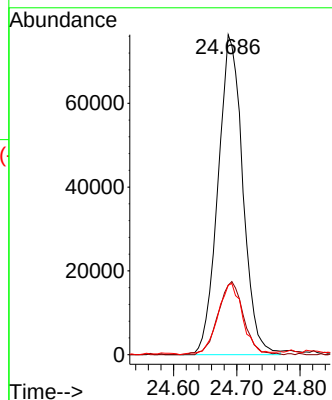
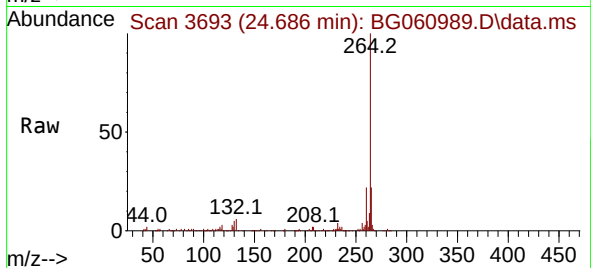
Tgt Ion:264 Resp: 207233

Ion Ratio Lower Upper

264 100

260 21.7 19.4 29.2

265 21.7 17.0 25.4



#88

Benzo(b)fluoranthene

Concen: 6.744 ng

RT: 23.711 min Scan# 3527

Delta R.T. -0.008 min

Lab File: BG060989.D

Acq: 22 Apr 2024 13:16

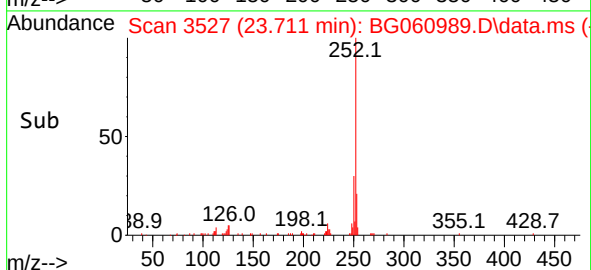
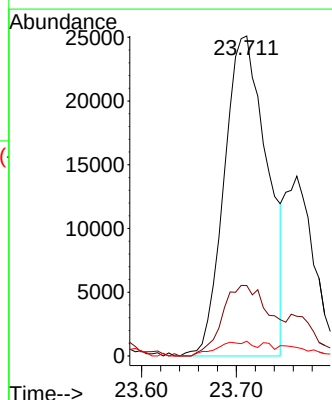
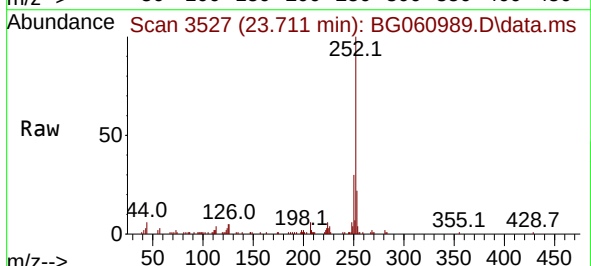
Tgt Ion:252 Resp: 79196

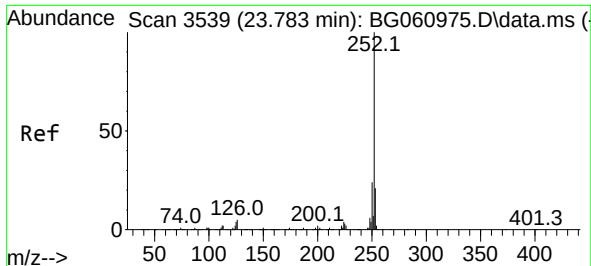
Ion Ratio Lower Upper

252 100

253 22.0 17.5 26.3

125 4.6 3.3 4.9

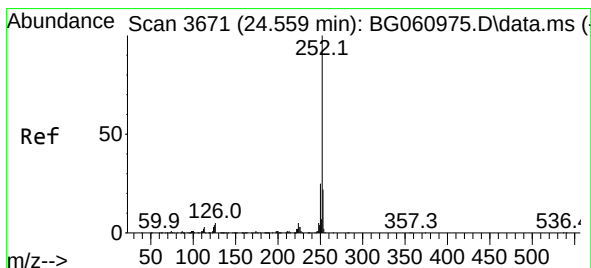
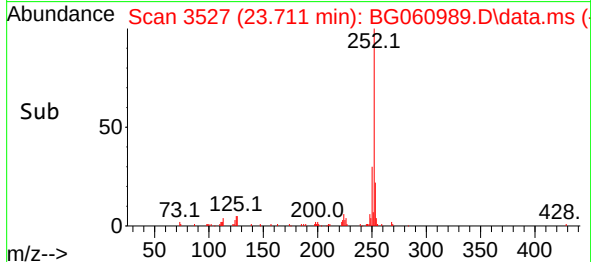
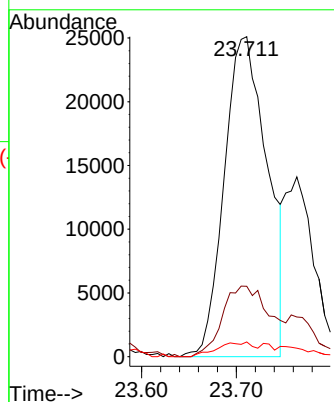
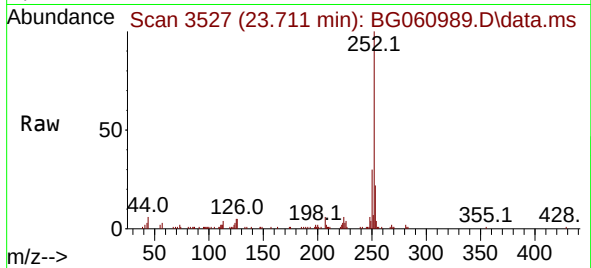




#89
Benzo(k)fluoranthene
Concen: 6.680 ng
RT: 23.711 min Scan# 31
Delta R.T. -0.072 min
Lab File: BG060989.D
Acq: 22 Apr 2024 13:16

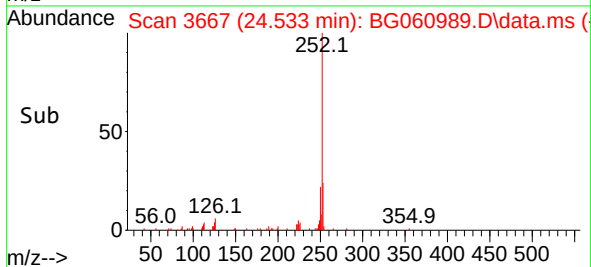
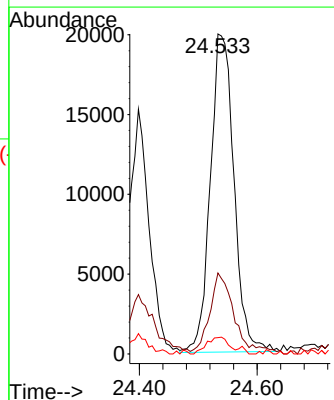
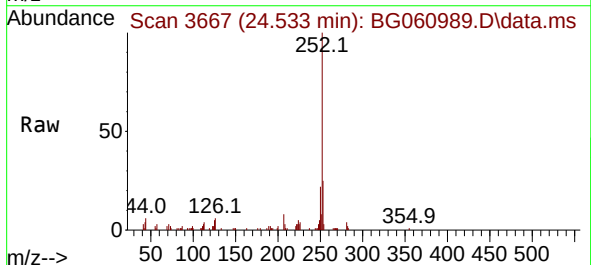
Instrument :
BNA_G
ClientSampleId :
CONCRETE-VAULT

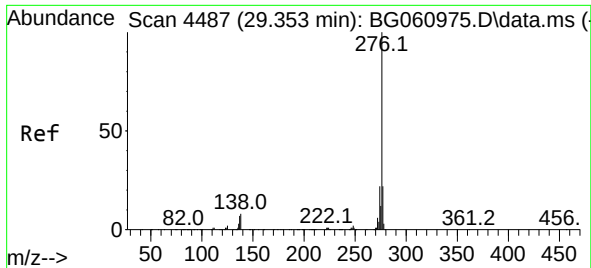
Tgt Ion:252 Resp: 79196
Ion Ratio Lower Upper
252 100
253 22.0 16.6 25.0
125 4.6 3.3 4.9



#90
Benzo(a)pyrene
Concen: 4.890 ng
RT: 24.533 min Scan# 3667
Delta R.T. -0.025 min
Lab File: BG060989.D
Acq: 22 Apr 2024 13:16

Tgt Ion:252 Resp: 55584
Ion Ratio Lower Upper
252 100
253 25.3 17.7 26.5
125 5.1 3.6 5.4





#92
 Benzo(g,h,i)perylene
 Concen: 2.283 ng
 RT: 29.328 min Scan# 44
 Delta R.T. -0.025 min
 Lab File: BG060989.D
 Acq: 22 Apr 2024 13:16

Instrument :
 BNA_G
 ClientSampleId :
 CONCRETE-VAULT

Tgt Ion:276 Resp: 26583
 Ion Ratio Lower Upper
 276 100
 277 22.5 18.0 27.0
 138 6.1 6.5 9.7#

