

Data Path : Z:\SVOASRV\HPCHEM1\BNA_G\DATA\BG060520\
 Data File : BG045636.D
 Acq On : 6 Jun 2020 5:41
 Operator : CG/JU
 Sample : L2814-13MSD
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 PL-01-060320MSD

Quant Time: Jun 06 07:07:20 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG051520.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jun 01 15:07:00 2020
 Response via : Initial Calibration

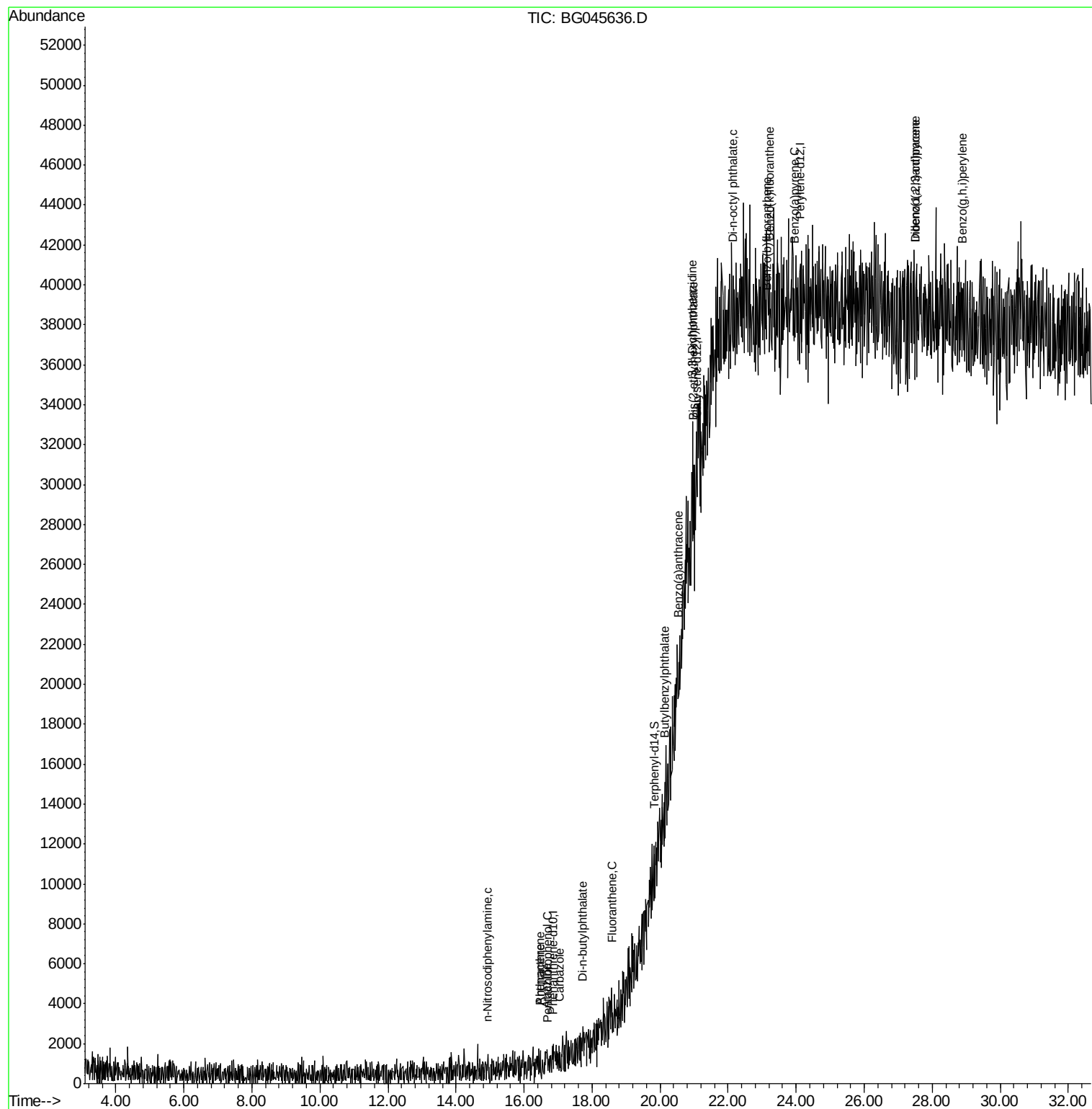
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	0.00	152	0	0.00	ng	-7.95
21) Naphthalene-d8	0.00	136	0	0.00	ng	-10.76
39) Acenaphthene-d10	0.00	164	0	0.00	ng	-14.60
64) Phenanthrene-d10	16.84	188	62	20.00	ng	-0.51
76) Chrysene-d12	21.07	240	59	20.00	ng	-0.54
87) Perylene-d12	24.12	264	53	20.00	ng	-0.63
System Monitoring Compounds						
5) 2-Fluorophenol	0.00	112	0	0.00	ng	
7) Phenol-d6	7.23	99	54	0.00	ng	0.08
23) Nitrobenzene-d5	9.10	82	53	0.00	ng	-0.02
42) 2,4,6-Tribromophenol	0.00	330	0	0.00	ng	
45) 2-Fluorobiphenyl	0.00	172	0	0.00	ng	
79) Terphenyl-d14	19.82	244	54	21.35	ng	-0.14
Target Compounds						
66) n-Nitrosodiphenylamine	14.92	169	54	36.28	ng	# 21
69) Atrazine	16.67	200	69	112.53	ng	# 36
70) Pentachlorophenol	16.69	266	72	197.48	ng	# 18
71) Phenanthrene	16.49	178	72	26.60	ng	# 59
72) Anthracene	16.49	178	72	26.49	ng	# 60
73) Carbazole	17.03	167	74	27.93	ng	# 57
74) Di-n-butylphthalate	17.72	149	62	19.50	ng	# 77
75) Fluoranthene	18.57	202	56	16.27	ng	# 64
80) Butylbenzylphthalate	20.14	149	95	65.44	ng	# 23
81) Benzo(a)anthracene	20.55	228	54	16.43	ng	# 50
82) 3,3'-Dichlorobenzidine	20.95	252	80	62.05	ng	# 25
84) Bis(2-ethylhexyl)phthalate	20.97	149	177	88.70	ng	# 53
85) Di-n-octyl phthalate	22.14	149	602	175.65	ng	# 1
86) Indeno(1,2,3-cd)pyrene	27.51	276	56	13.55	ng	# 56
88) Benzo(b)fluoranthene	23.13	252	65	22.87	ng	# 1
89) Benzo(k)fluoranthene	23.21	252	63	23.59	ng	# 59
90) Benzo(a)pyrene	23.94	252	145	54.77	ng	# 61
91) Dibenzo(a,h)anthracene	27.51	278	66	24.81	ng	# 57
92) Benzo(g,h,i)perylene	28.90	276	55	20.67	ng	# 58

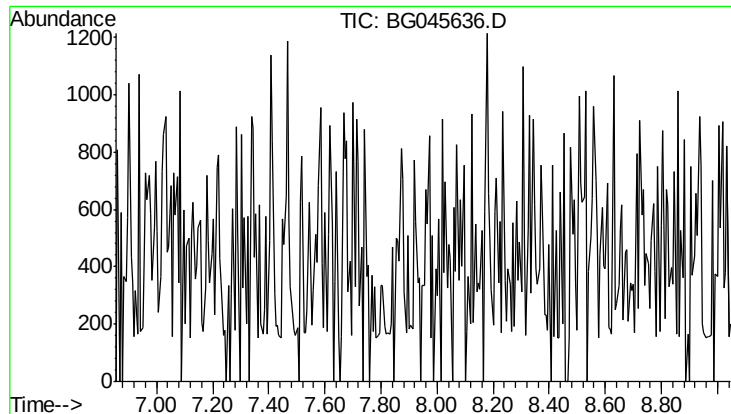
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 0.00 ng

Expected RT: 7.95 min

Lab File: BG045636.D

Acq: 6 Jun 2020 5:41

Instrument :

BNA_G

ClientSampleId :

PL-01-060320MSD

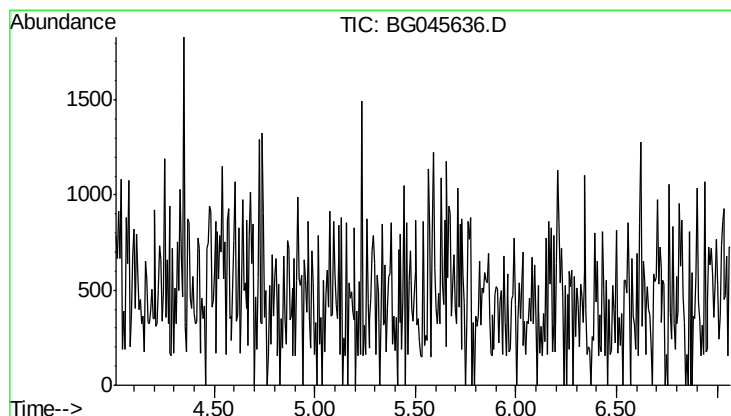
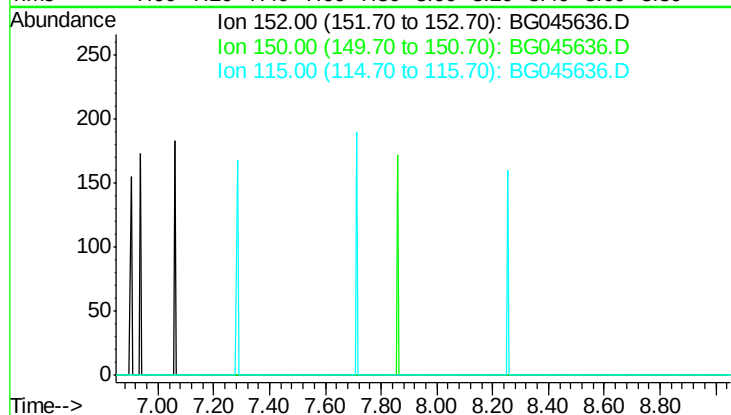
Tgt Ion: 152

Sig Exp Ratio

152 100

150 153.0

115 55.3



#5

2-Fluorophenol

Concen: 0.00 ng

Expected RT: 5.54 min

Lab File: BG045636.D

Acq: 6 Jun 2020 5:41

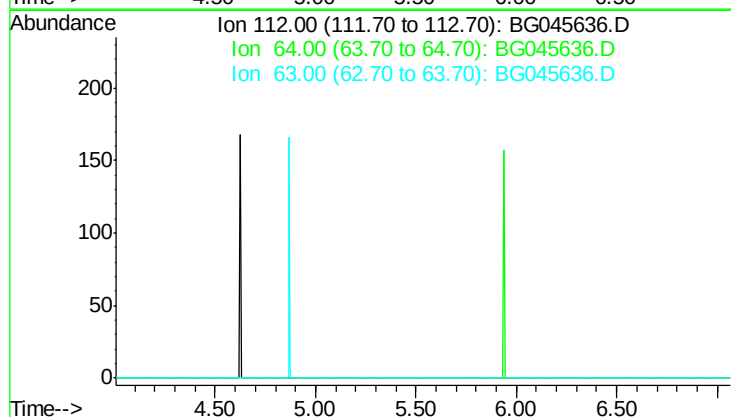
Tgt Ion: 112

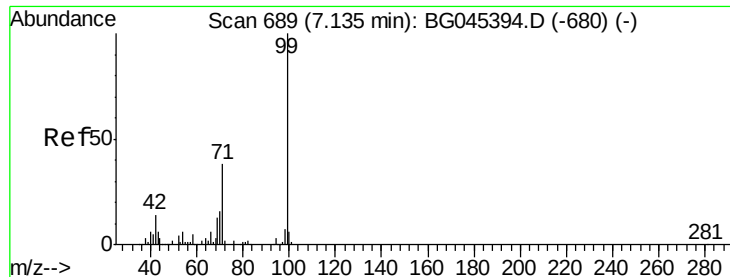
Sig Exp Ratio

112 100

64 60.7

63 33.1





#7

Phenol-d6

Concen: 0.00 ng

RT: 7.23 min Scan# 705

Delta R.T. 0.08 min

Lab File: BG045636.D

Acq: 6 Jun 2020 5:41

Instrument :

BNA_G

ClientSampleId :

PL-01-060320MSD

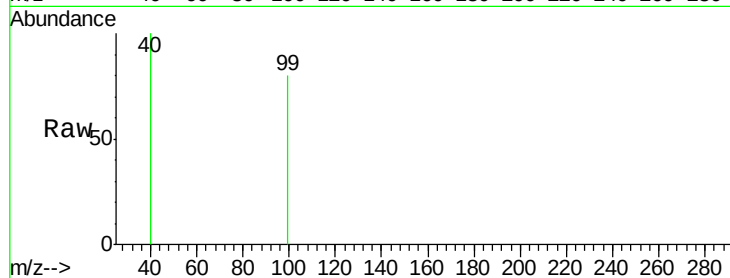
Tgt Ion: 99 Resp: 54

Ion Ratio Lower Upper

99 100

42 0.0 11.3 16.9#

71 0.0 30.8 46.2#



Abundance Ion 99.00 (98.70 to 99.70): BG045636.D

Ion 42.00 (41.70 to 42.70): BG045636.D

Ion 71.00 (70.70 to 71.70): BG045636.D

7.23

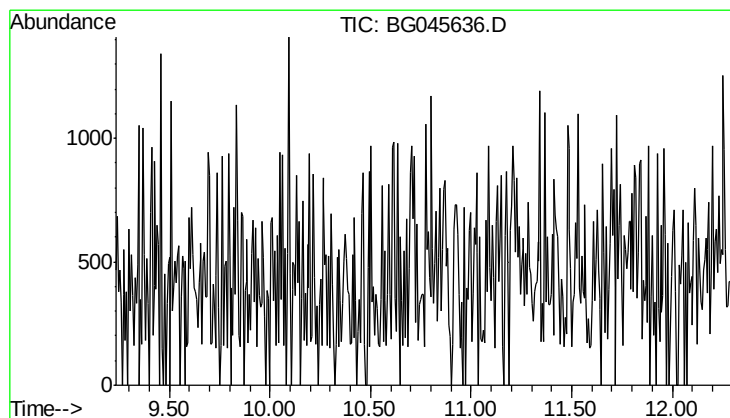
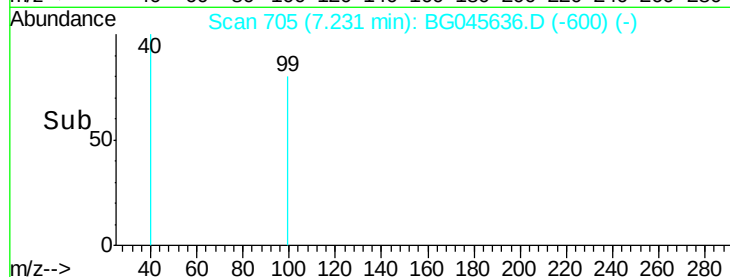
150

100

50

0

Time--> 7.21 7.22 7.23 7.24 7.25



#21

Naphthalene-d8

Concen: 0.00 ng

Expected RT: 10.76 min

Lab File: BG045636.D

Acq: 6 Jun 2020 5:41

Tgt Ion: 136

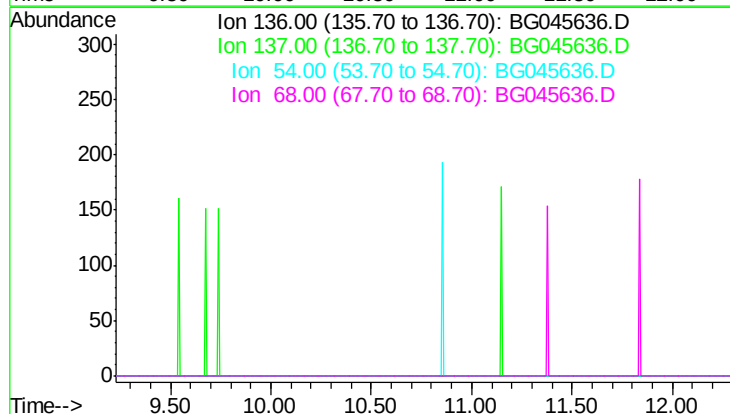
Sig Exp Ratio

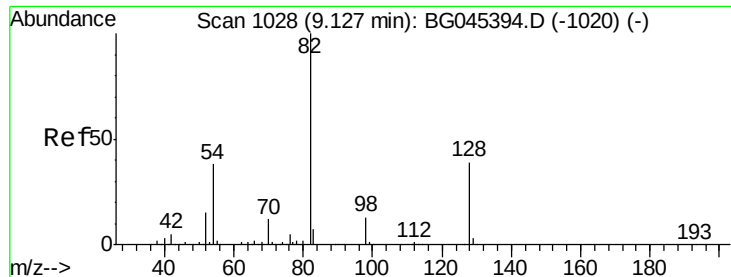
136 100

137 11.8

54 7.2

68 5.6

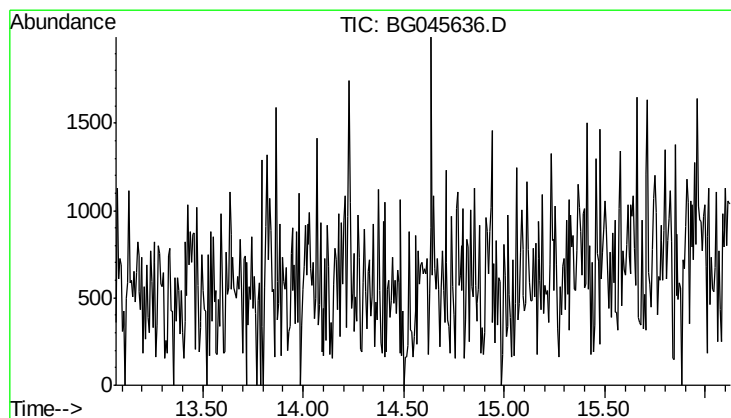
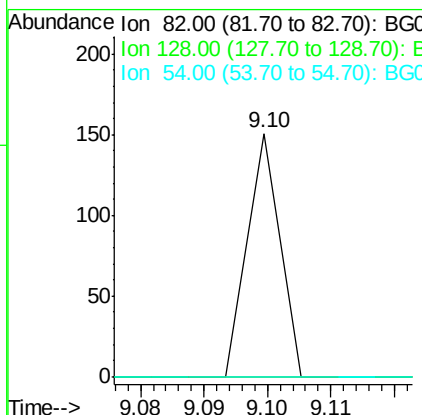
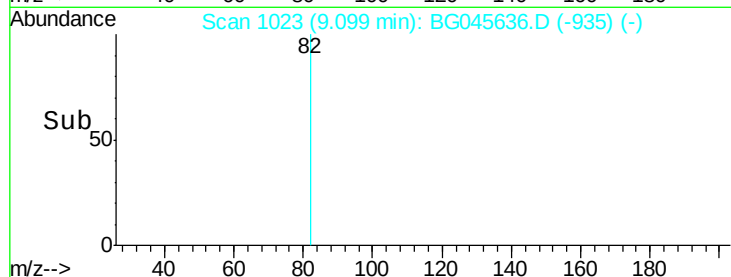
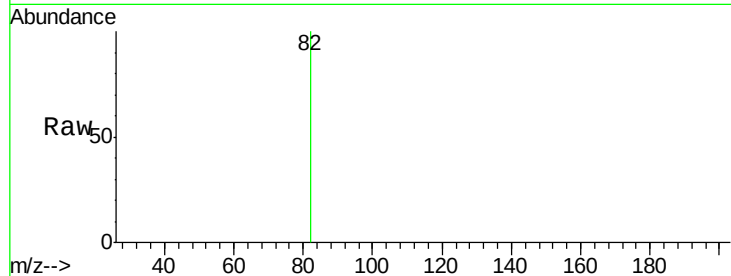




#23
Nitrobenzene-d5
Concen: 0.00 ng
RT: 9.10 min Scan# 1023
Delta R.T. -0.02 min
Lab File: BG045636.D
Acq: 6 Jun 2020 5:41

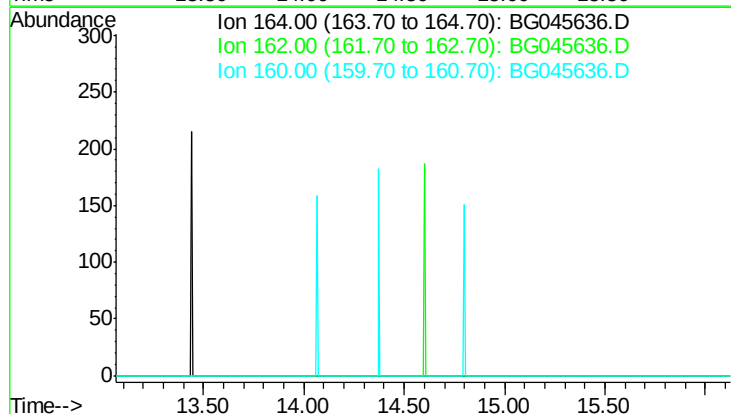
Instrument :
BNA_G
ClientSampleId :
PL-01-060320MSD

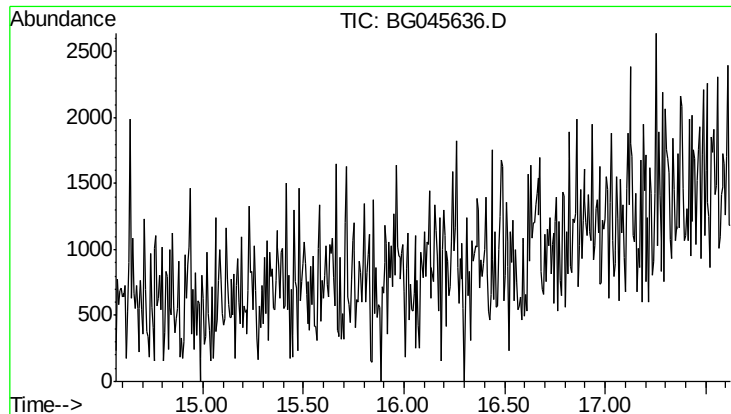
Tgt Ion: 82 Resp: 53
Ion Ratio Lower Upper
82 100
128 0.0 30.9 46.3#
54 0.0 30.3 45.5#



#39
Acenaphthene-d10
Concen: 0.00 ng
Expected RT: 14.60 min
Lab File: BG045636.D
Acq: 6 Jun 2020 5:41

Tgt Ion: 164
Sig Exp Ratio
164 100
162 96.1
160 42.3

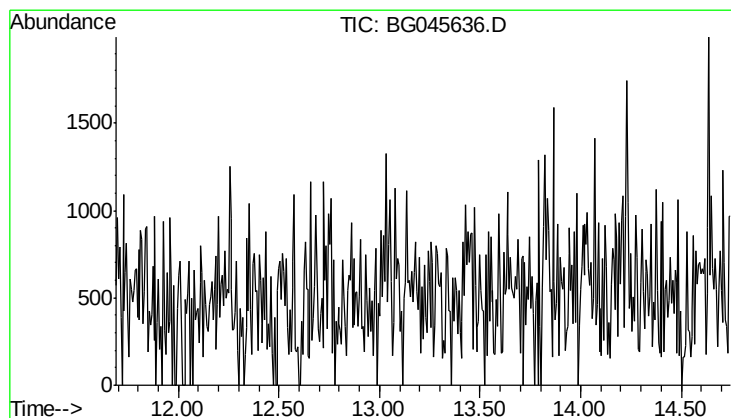
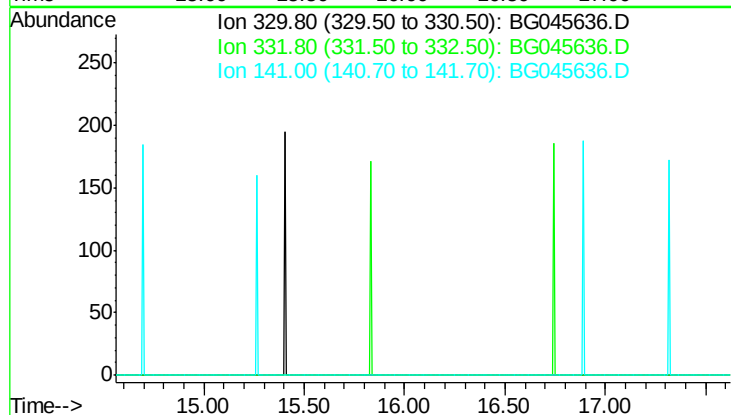




#42
 2,4,6-Tribromophenol
 Concen: 0.00 ng
 Expected RT: 16.09 min
 Lab File: BG045636.D
 Acq: 6 Jun 2020 5:41

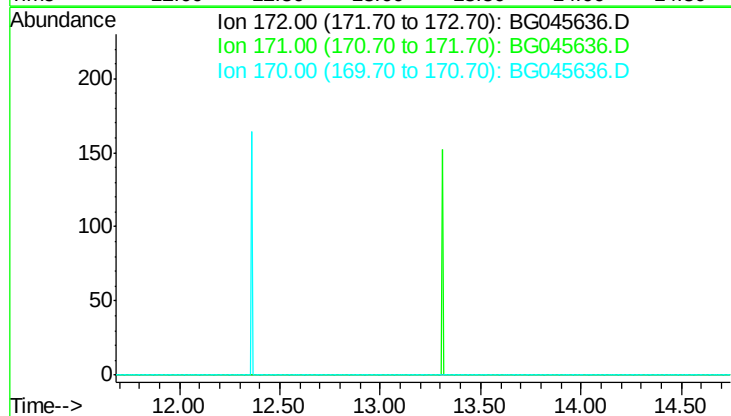
Instrument :
 BNA_G
 ClientSampleId :
 PL-01-060320MSD

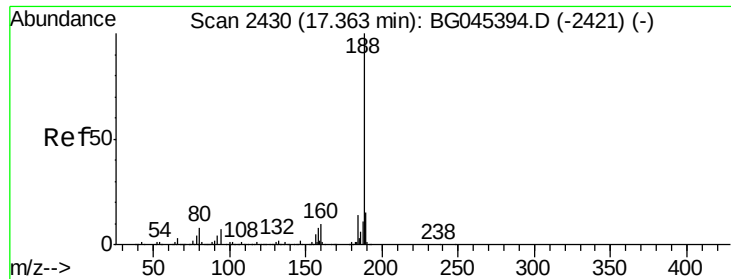
Tgt Ion: 330
 Sig Exp Ratio
 330 100
 332 97.8
 141 35.3



#45
 2-Fluorobiphenyl
 Concen: 0.00 ng
 Expected RT: 13.21 min
 Lab File: BG045636.D
 Acq: 6 Jun 2020 5:41

Tgt Ion: 172
 Sig Exp Ratio
 172 100
 171 36.9
 170 23.1





#64

Phenanthrene-d10

Concen: 20.00 ng

RT: 16.84 min Scan# 2340

Delta R.T. -0.51 min

Lab File: BG045636.D

Acq: 6 Jun 2020 5:41

Instrument :

BNA_G

ClientSampleId :

PL-01-060320MSD

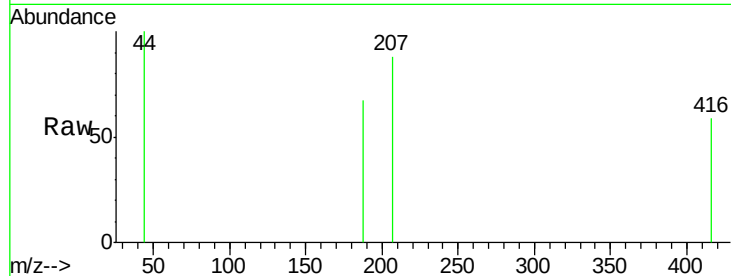
Tgt Ion:188 Resp: 62

Ion Ratio Lower Upper

188 100

94 0.0 5.5 8.3#

80 0.0 6.6 10.0#



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BGC

Ion 80.00 (79.70 to 80.70): BGC

16.84

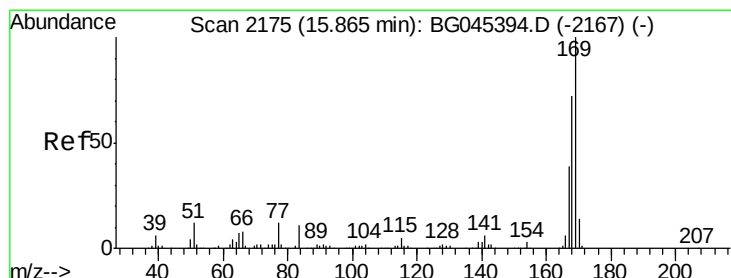
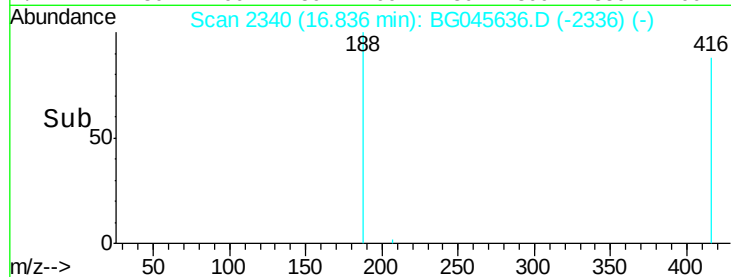
150

100

50

0

Time-->



#66

n-Nitrosodiphenylamine

Concen: 36.28 ng

RT: 14.92 min Scan# 2014

Delta R.T. -0.93 min

Lab File: BG045636.D

Acq: 6 Jun 2020 5:41

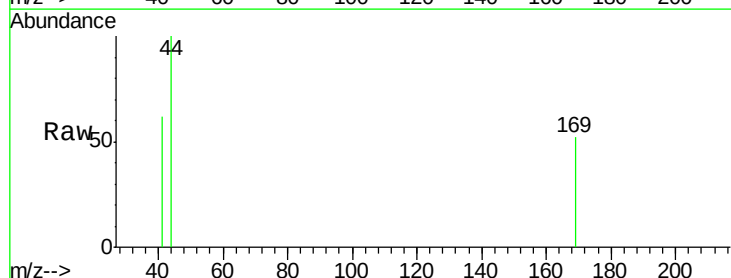
Tgt Ion:169 Resp: 54

Ion Ratio Lower Upper

169 100

168 0.0 57.8 86.6#

167 0.0 31.5 47.3#



Abundance Ion 169.00 (168.70 to 169.70): E

Ion 168.00 (167.70 to 168.70): E

Ion 167.00 (166.70 to 167.70): E

14.92

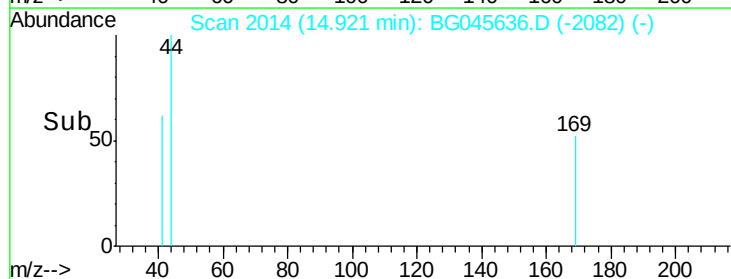
150

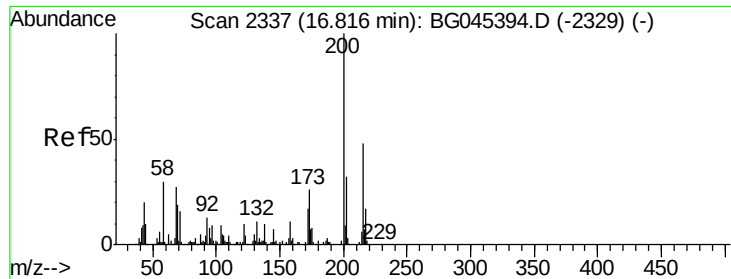
100

50

0

Time-->

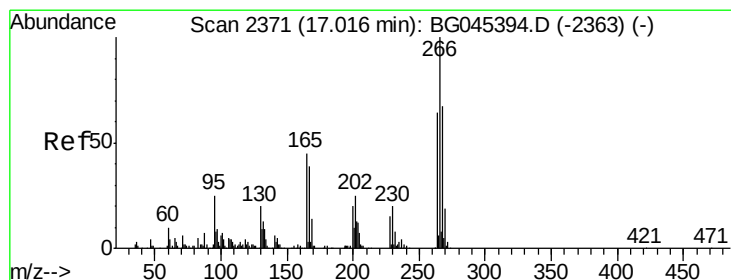
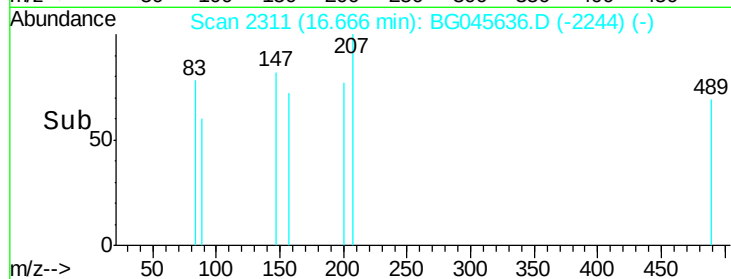
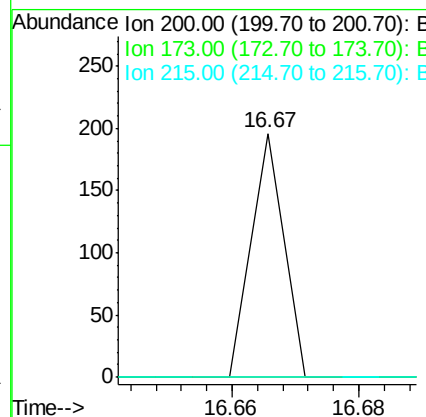
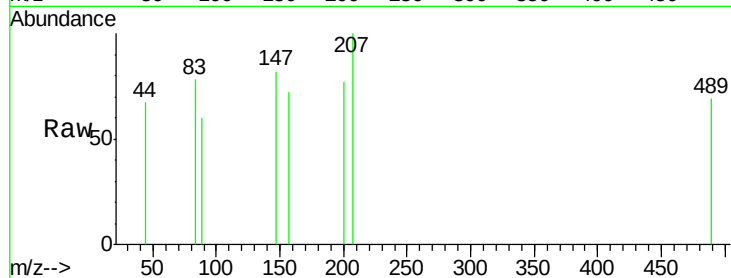




#69
Atrazine
Concen: 112.53 ng
RT: 16.67 min Scan# 2311
Delta R.T. -0.14 min
Lab File: BG045636.D
Acq: 6 Jun 2020 5:41

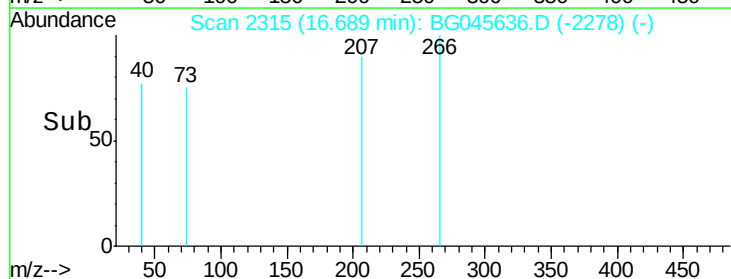
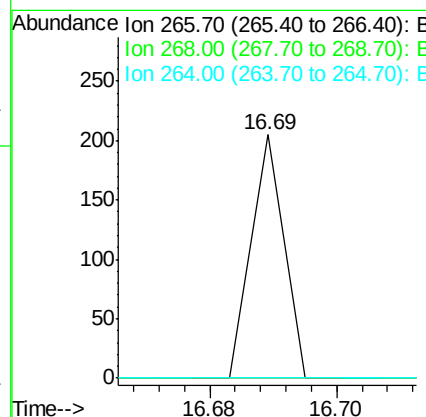
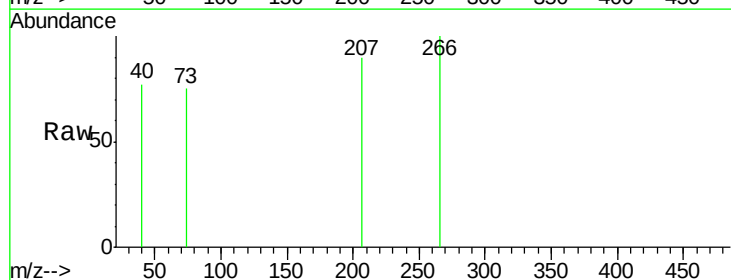
Instrument :
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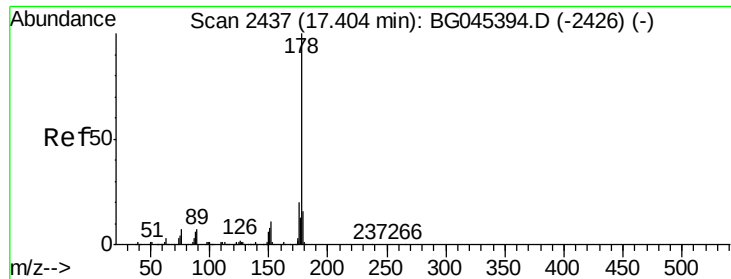
Tgt Ion:200 Resp: 69
Ion Ratio Lower Upper
200 100
173 0.0 5.5 45.5#
215 0.0 28.2 68.2#



#70
Pentachlorophenol
Concen: 197.48 ng
RT: 16.69 min Scan# 2315
Delta R.T. -0.31 min
Lab File: BG045636.D
Acq: 6 Jun 2020 5:41

Tgt Ion:266 Resp: 72
Ion Ratio Lower Upper
266 100
268 0.0 53.2 79.8#
264 0.0 51.0 76.4#





#71

Phenanthrene

Concen: 26.60 ng

RT: 16.49 min Scan# 2281

Delta R.T. -0.90 min

Lab File: BG045636.D

Acq: 6 Jun 2020 5:41

Instrument :

BNA_G

ClientSampleId :

PL-01-060320MSD

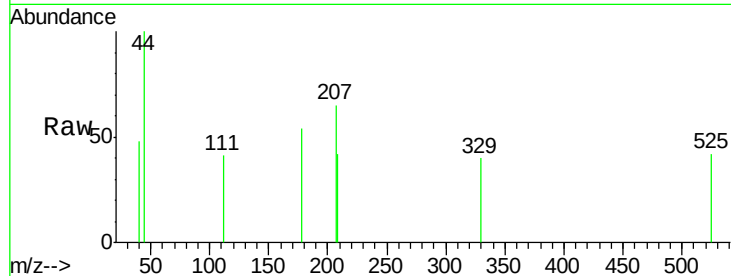
Tgt Ion:178 Resp: 72

Ion Ratio Lower Upper

178 100

176 0.0 16.2 24.4#

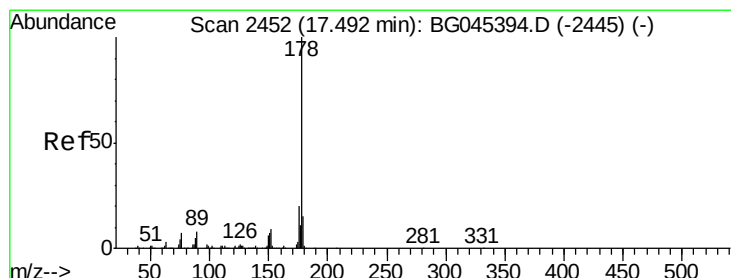
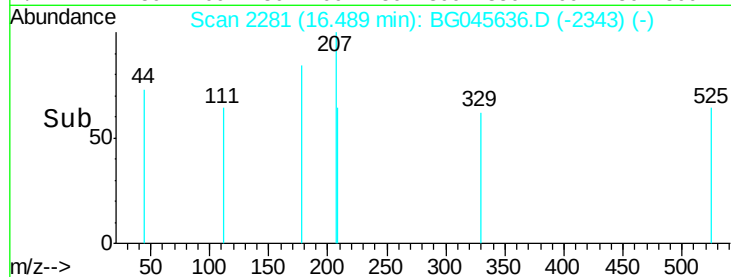
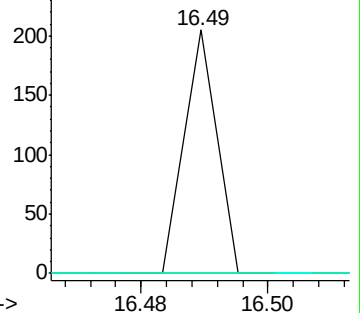
179 0.0 13.1 19.7#



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#72

Anthracene

Concen: 26.49 ng

RT: 16.49 min Scan# 2281

Delta R.T. -0.99 min

Lab File: BG045636.D

Acq: 6 Jun 2020 5:41

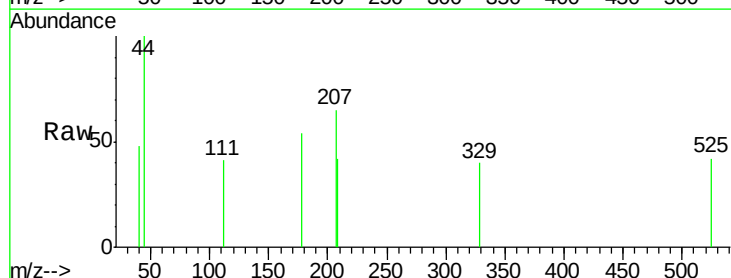
Tgt Ion:178 Resp: 72

Ion Ratio Lower Upper

178 100

176 0.0 15.8 23.6#

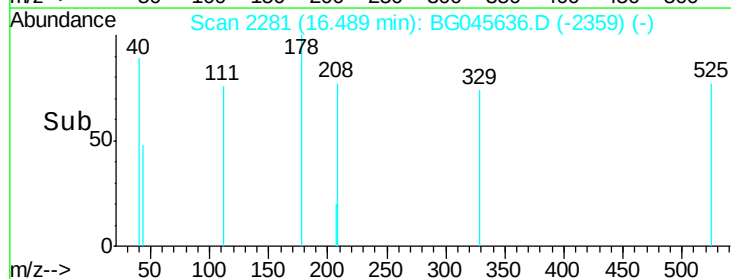
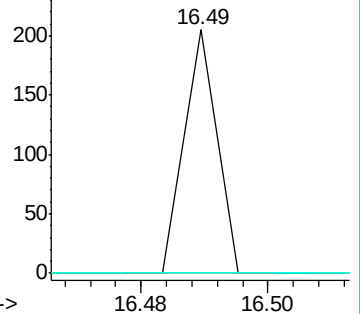
179 0.0 12.2 18.4#

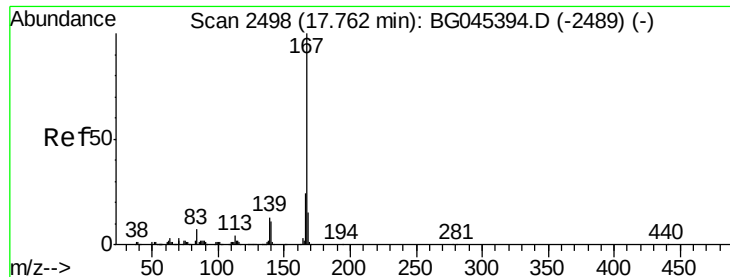


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#73

Carbazole

Concen: 27.93 ng

RT: 17.03 min Scan# 2373

Delta R.T. -0.72 min

Lab File: BG045636.D

Acq: 6 Jun 2020 5:41

Instrument :

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ClientSampleId :

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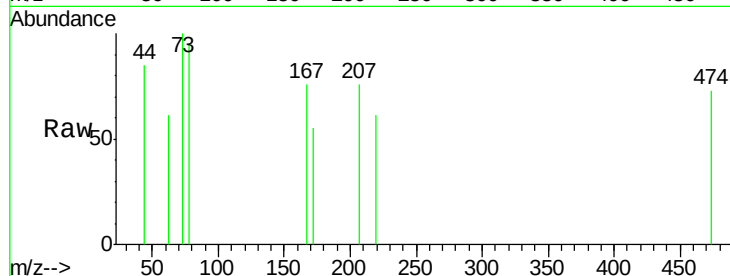
Tgt Ion:167 Resp: 74

Ion Ratio Lower Upper

167 100

166 0.0 19.2 28.8#

139 0.0 10.6 16.0#



Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E

17.03

200

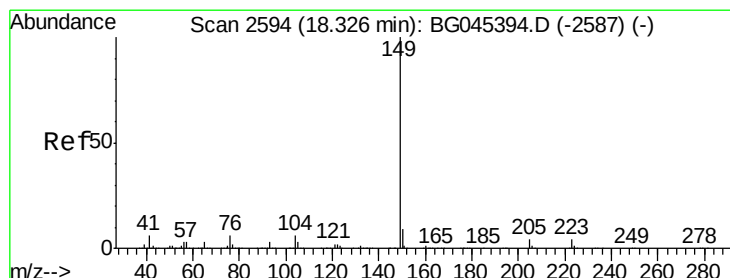
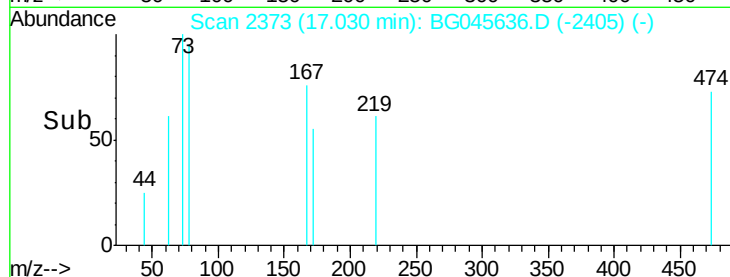
150

100

50

0

Time-->



#74

Di-n-butylphthalate

Concen: 19.50 ng

RT: 17.72 min Scan# 2490

Delta R.T. -0.59 min

Lab File: BG045636.D

Acq: 6 Jun 2020 5:41

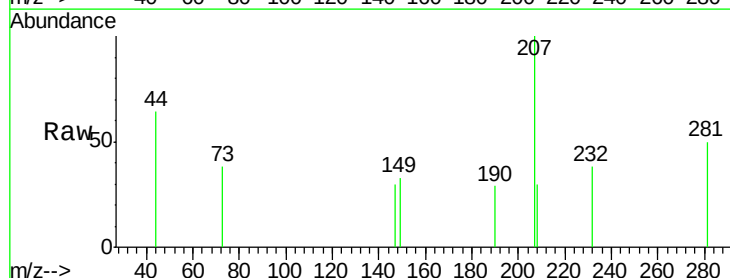
Tgt Ion:149 Resp: 62

Ion Ratio Lower Upper

149 100

150 0.0 7.6 11.4#

104 0.0 5.0 7.4#



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 104.00 (103.70 to 104.70): E

17.72

200

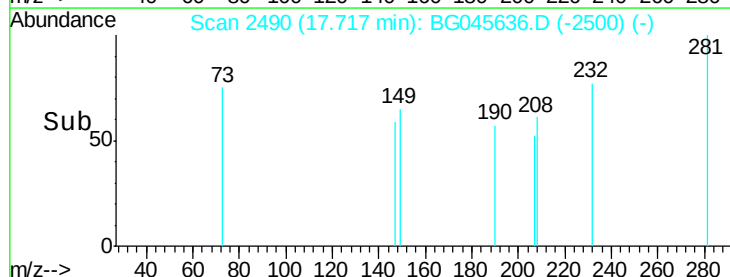
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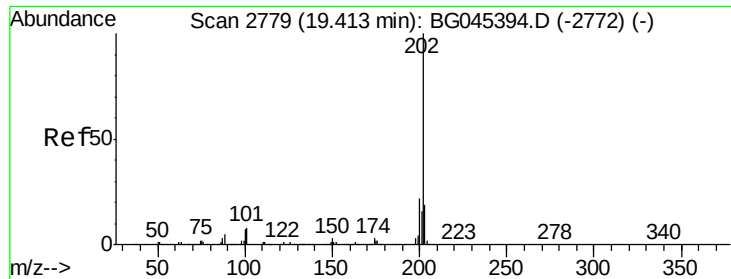
100

50

0

Time-->





#75

Fluoranthene

Concen: 16.27 ng

RT: 18.57 min Scan# 2635

Delta R.T. -0.83 min

Lab File: BG045636.D

Acq: 6 Jun 2020 5:41

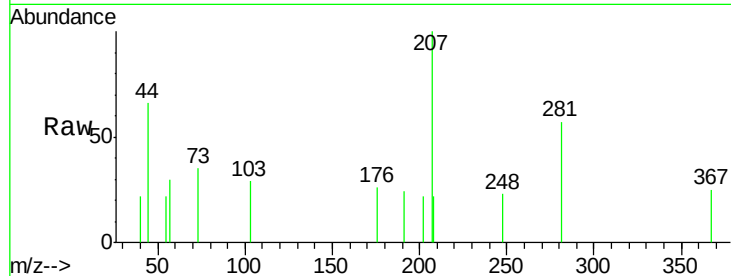
Instrument :

BNA_G

ClientSampleId :

PL-01-060320MSD

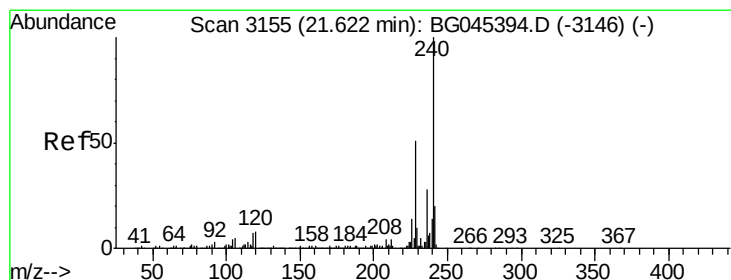
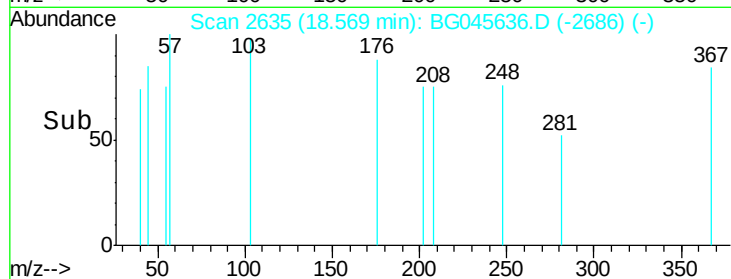
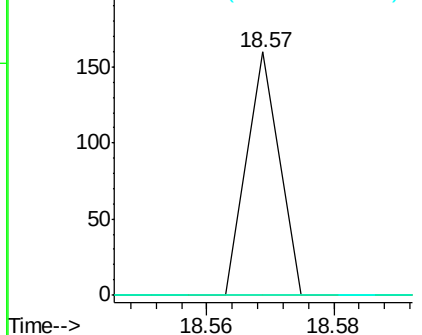
Tgt Ion:	202	Resp:	56
Ion	Ratio	Lower	Upper
202	100		
101	0.0	0.0	28.3
203	0.0	0.0	39.0



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#76

Chrysene-d12

Concen: 20.00 ng

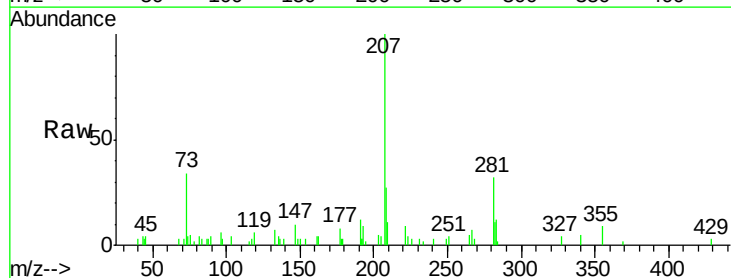
RT: 21.07 min Scan# 3060

Delta R.T. -0.54 min

Lab File: BG045636.D

Acq: 6 Jun 2020 5:41

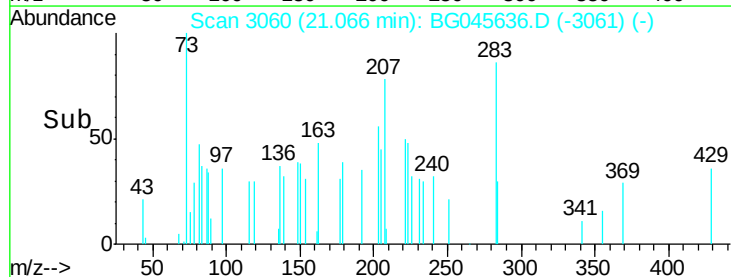
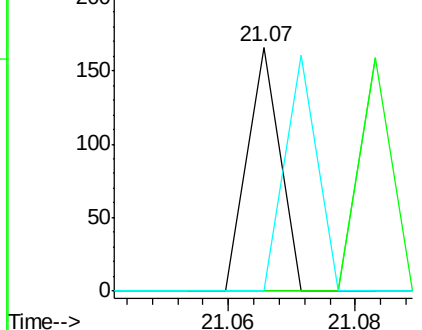
Tgt Ion:	240	Resp:	59
Ion	Ratio	Lower	Upper
240	100		
120	0.0	6.1	9.1#
236	0.0	22.3	33.5#

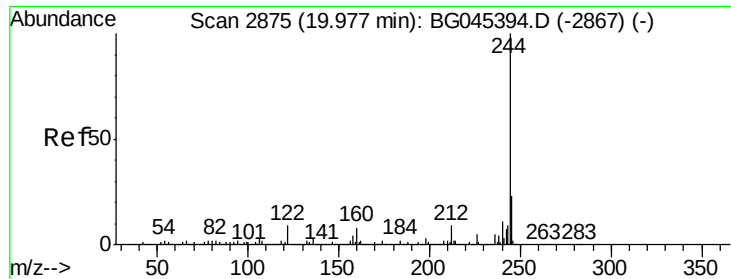


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#79

Terphenyl-d14

Concen: 21.35 ng

RT: 19.82 min Scan# 2848

Delta R.T. -0.14 min

Lab File: BG045636.D

Acq: 6 Jun 2020 5:41

Instrument :

BNA_G

ClientSampleId :

PL-01-060320MSD

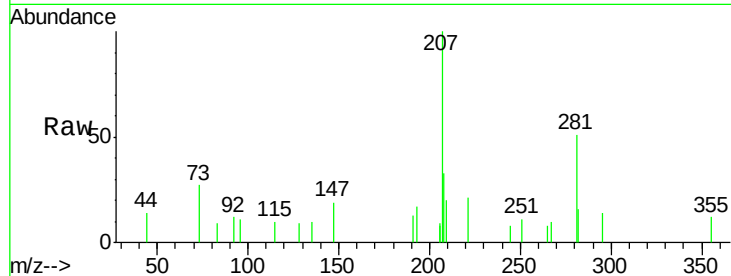
Tgt Ion: 244 Resp: 54

Ion Ratio Lower Upper

244 100

212 0.0 7.4 11.0#

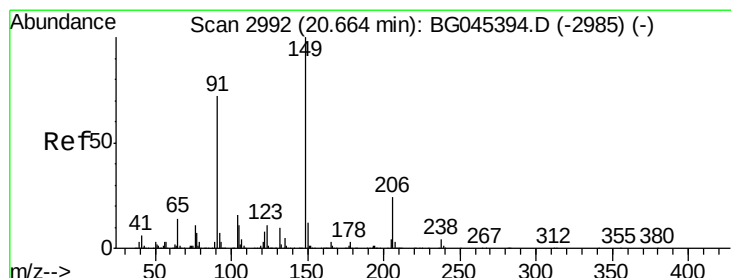
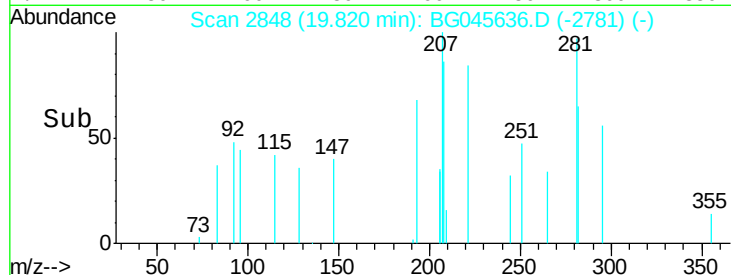
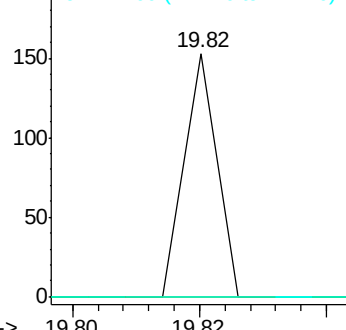
122 0.0 6.8 10.2#



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#80

Butylbenzylphthalate

Concen: 65.44 ng

RT: 20.14 min Scan# 2903

Delta R.T. -0.50 min

Lab File: BG045636.D

Acq: 6 Jun 2020 5:41

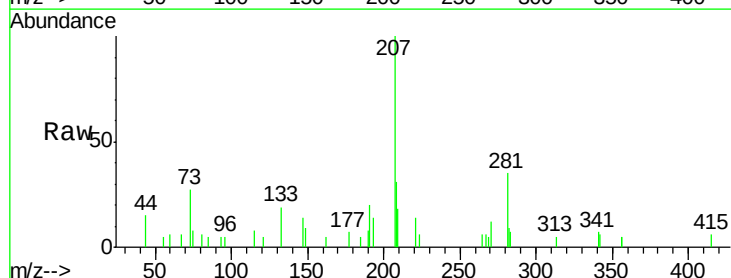
Tgt Ion: 149 Resp: 95

Ion Ratio Lower Upper

149 100

91 0.0 57.8 86.6#

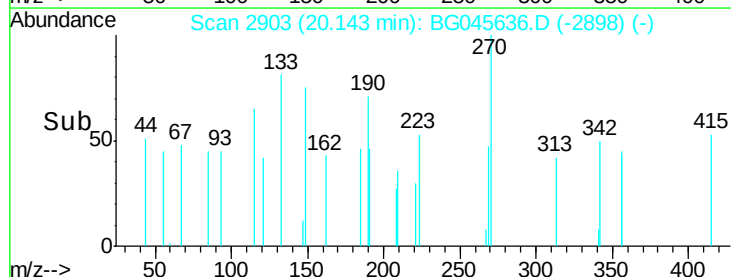
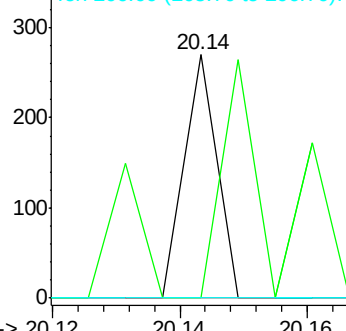
206 0.0 19.1 28.7#

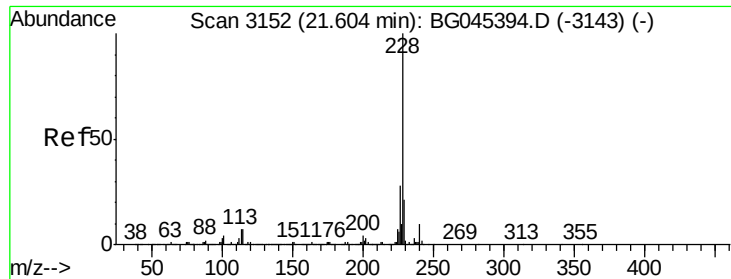


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 91.00 (90.70 to 91.70): BGC

Ion 206.00 (205.70 to 206.70): E





#81

Benzo(a)anthracene

Concen: 16.43 ng

RT: 20.55 min Scan# 2972

Delta R.T. -1.04 min

Lab File: BG045636.D

Acq: 6 Jun 2020 5:41

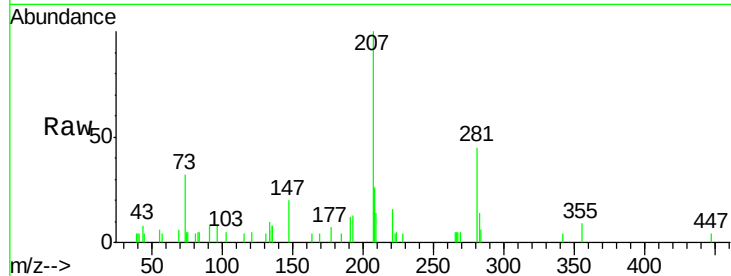
Instrument :

BNA_G

ClientSampleId :

PL-01-060320MSD

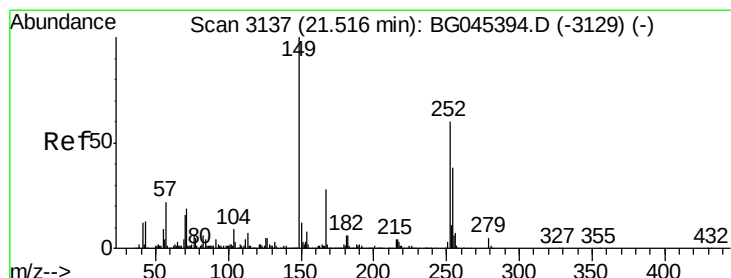
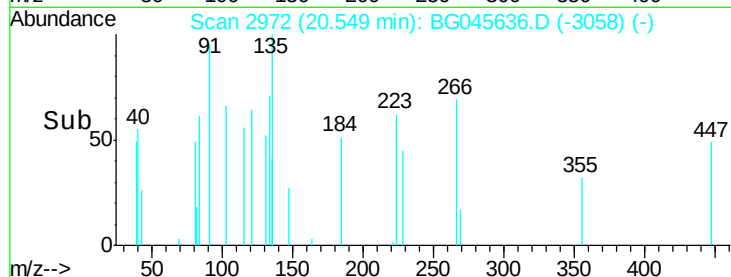
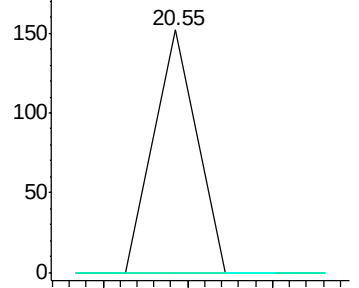
Tgt Ion:	228	Resp:	54
Ion Ratio	Lower	Upper	
228	100		
226	0.0	22.7	34.1#
229	0.0	16.7	25.1#



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#82

3,3'-Dichlorobenzidine

Concen: 62.05 ng

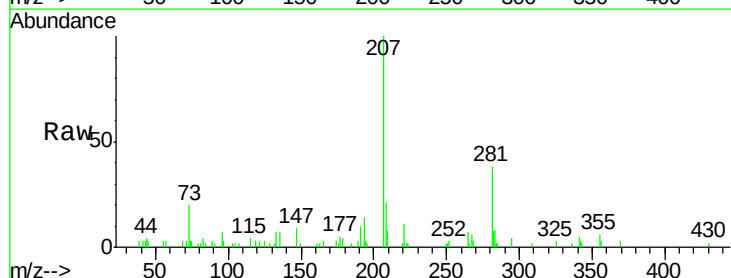
RT: 20.95 min Scan# 3041

Delta R.T. -0.55 min

Lab File: BG045636.D

Acq: 6 Jun 2020 5:41

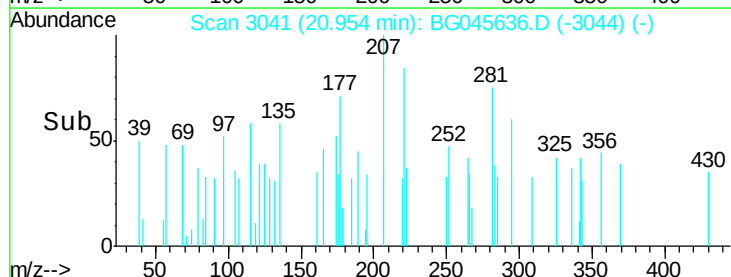
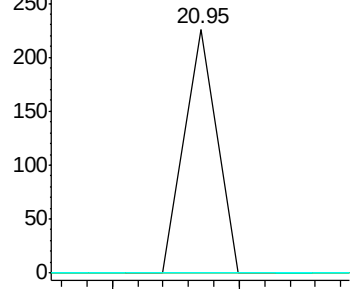
Tgt Ion:	252	Resp:	80
Ion Ratio	Lower	Upper	
252	100		
254	0.0	51.3	76.9#
126	0.0	6.6	10.0#

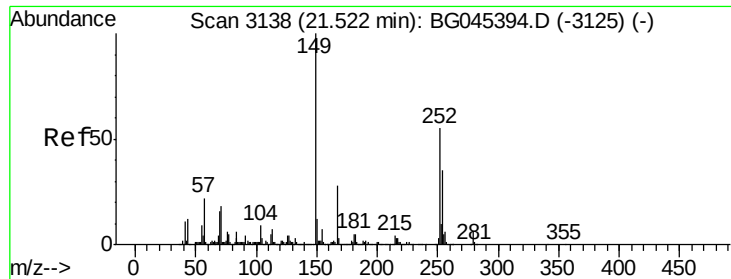


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 254.00 (253.70 to 254.70): E

Ion 126.00 (125.70 to 126.70): E





#84

Bis(2-ethylhexyl)phthalate

Concen: 88.70 ng

RT: 20.97 min Scan# 3043

Delta R.T. -0.53 min

Lab File: BG045636.D

Acq: 6 Jun 2020 5:41

Instrument :

BNA_G

ClientSampleId :

PL-01-060320MSD

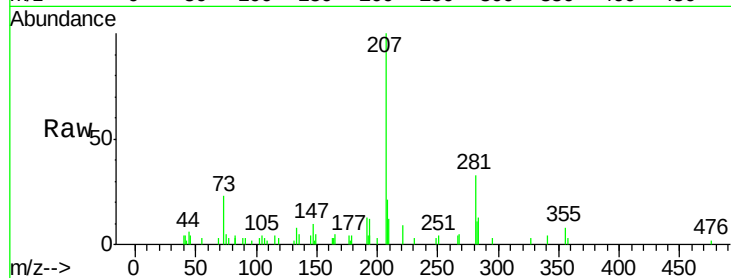
Tgt Ion:149 Resp: 177

Ion Ratio Lower Upper

149 100

167 0.0 22.2 33.2#

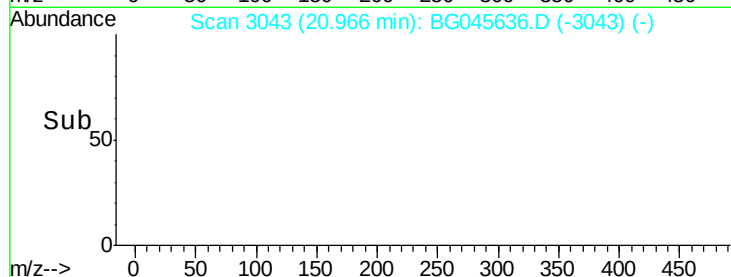
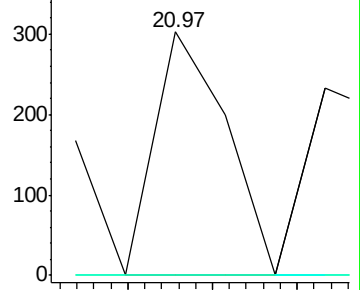
279 0.0 4.7 7.1#



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E



#85

Di-n-octyl phthalate

Concen: 175.65 ng

RT: 22.14 min Scan# 3243

Delta R.T. -0.54 min

Lab File: BG045636.D

Acq: 6 Jun 2020 5:41

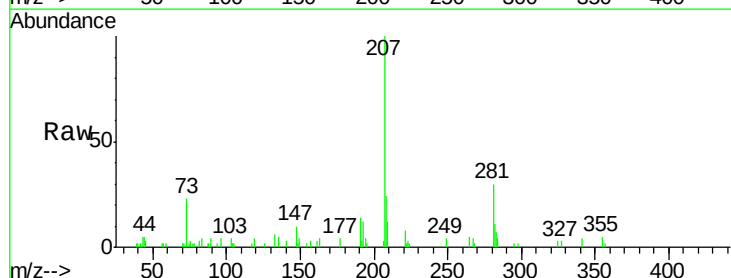
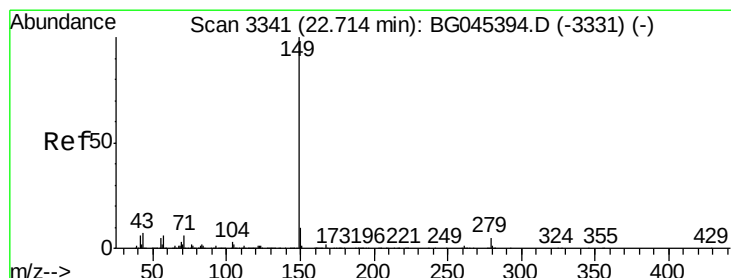
Tgt Ion:149 Resp: 602

Ion Ratio Lower Upper

149 100

167 0.0 1.4 2.0#

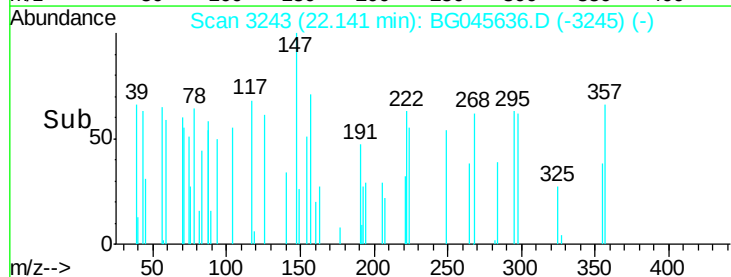
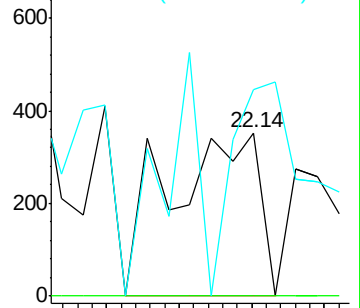
43 115.4 5.8 8.8#

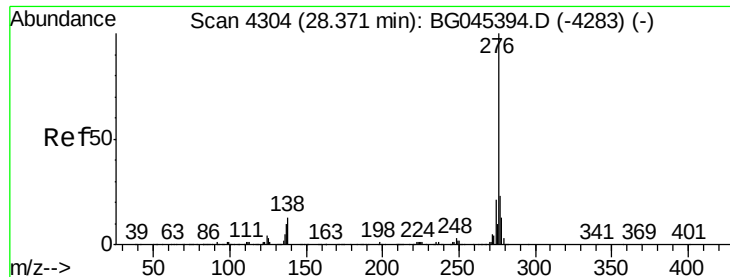


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 43.00 (42.70 to 43.70): BG





#86

Indeno(1,2,3-cd)pyrene

Concen: 13.55 ng

RT: 27.51 min Scan# 4157

Delta R.T. -0.81 min

Lab File: BG045636.D

Acq: 6 Jun 2020 5:41

Instrument :

BNA_G

ClientSampleId :

PL-01-060320MSD

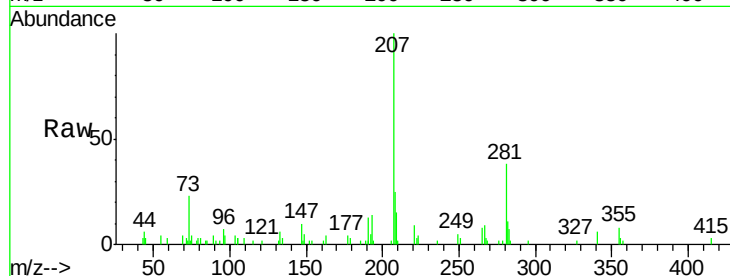
Tgt Ion:276 Resp: 56

Ion Ratio Lower Upper

276 100

138 0.0 8.6 12.8#

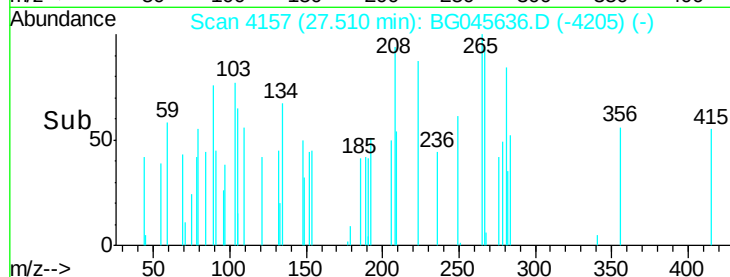
277 0.0 20.2 30.4#



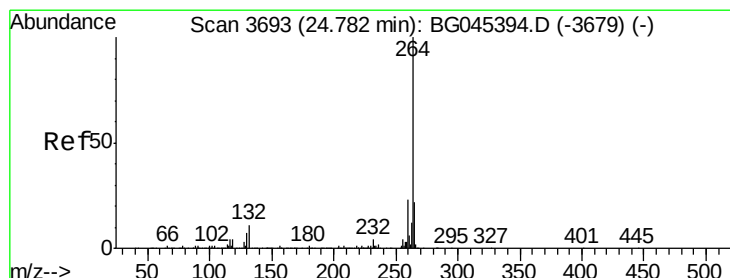
Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



Time-->



#87

Perylene-d12

Concen: 20.00 ng

RT: 24.12 min Scan# 3580

Delta R.T. -0.63 min

Lab File: BG045636.D

Acq: 6 Jun 2020 5:41

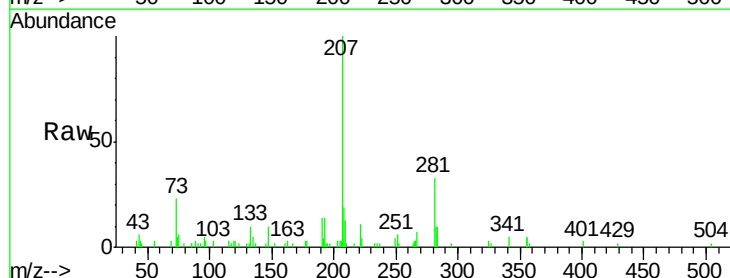
Tgt Ion:264 Resp: 53

Ion Ratio Lower Upper

264 100

260 0.0 18.2 27.4#

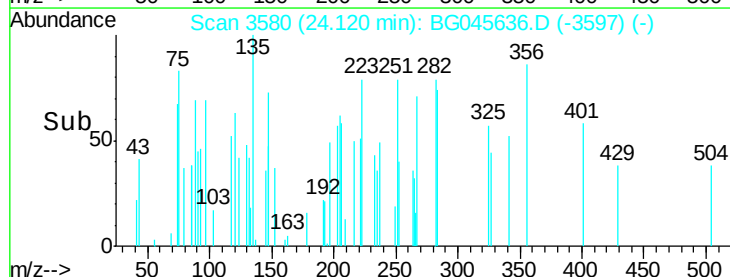
265 194.0 17.6 26.4#



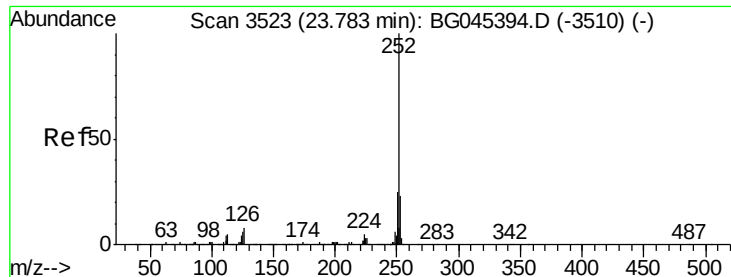
Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E



Time-->



#88

Benzo(b)fluoranthene

Concen: 22.87 ng

RT: 23.13 min Scan# 3412

Delta R.T. -0.63 min

Lab File: BG045636.D

Acq: 6 Jun 2020 5:41

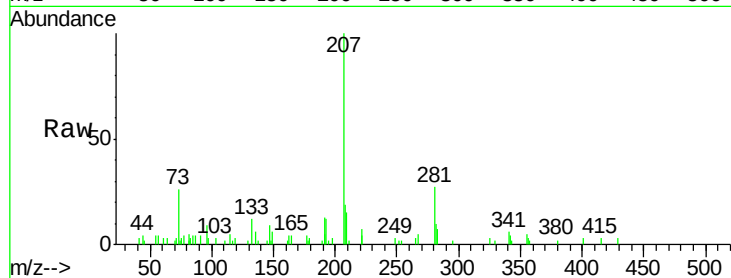
Instrument :

BNA_G

ClientSampleId :

PL-01-060320MSD

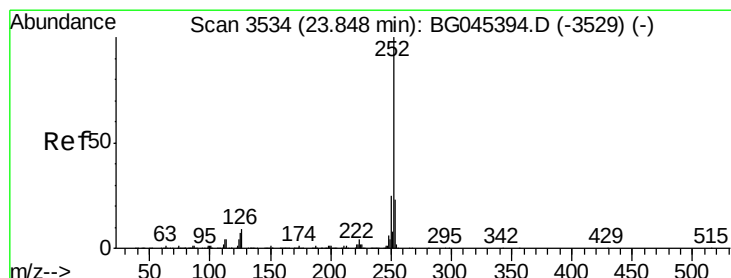
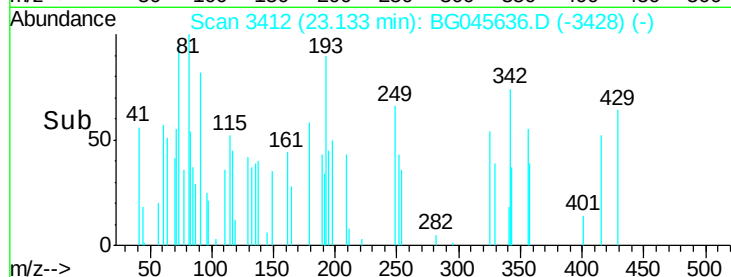
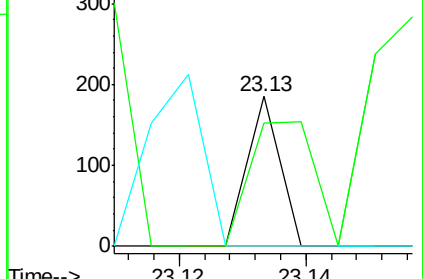
Tgt Ion:	252	Resp:	65
Ion Ratio	Lower	Upper	
252	100		
253	82.7	18.1	27.1#
125	0.0	5.0	7.6#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#89

Benzo(k)fluoranthene

Concen: 23.59 ng

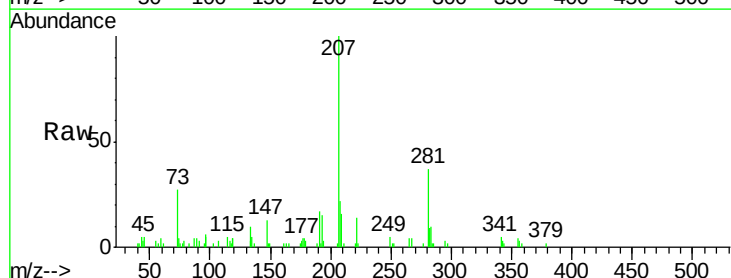
RT: 23.21 min Scan# 3425

Delta R.T. -0.61 min

Lab File: BG045636.D

Acq: 6 Jun 2020 5:41

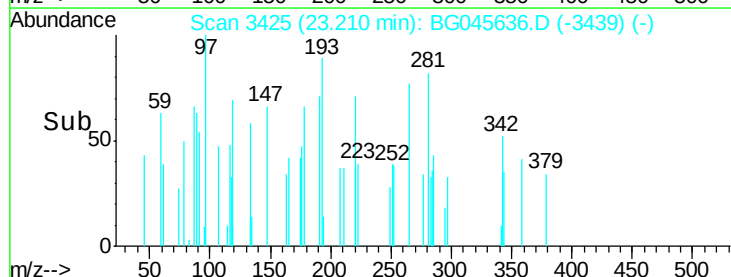
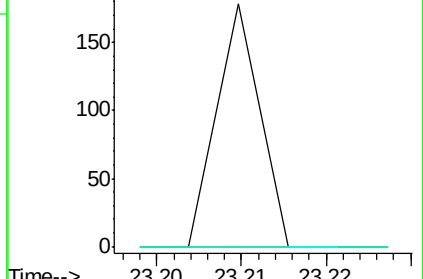
Tgt Ion:	252	Resp:	63
Ion Ratio	Lower	Upper	
252	100		
253	0.0	18.4	27.6#
125	0.0	5.7	8.5#

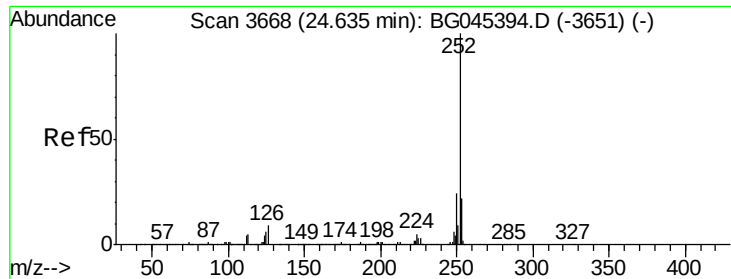


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#90

Benzo(a)pyrene

Concen: 54.77 ng

RT: 23.94 min Scan# 3550

Delta R.T. -0.66 min

Lab File: BG045636.D

Acq: 6 Jun 2020 5:41

Instrument :

BNA_G

ClientSampleId :

PL-01-060320MSD

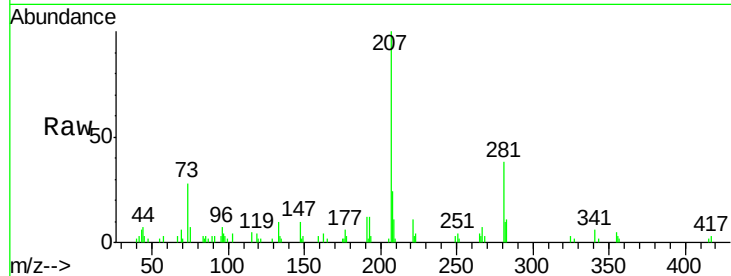
Tgt Ion:252 Resp: 145

Ion Ratio Lower Upper

252 100

253 0.0 17.2 25.8#

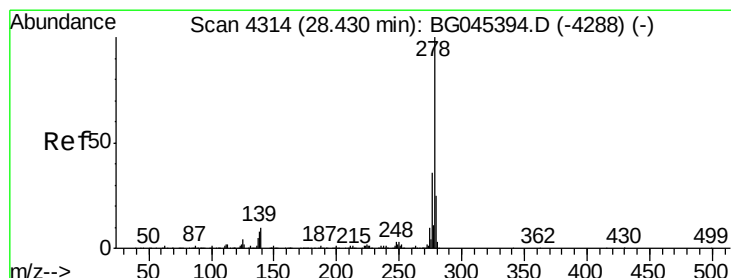
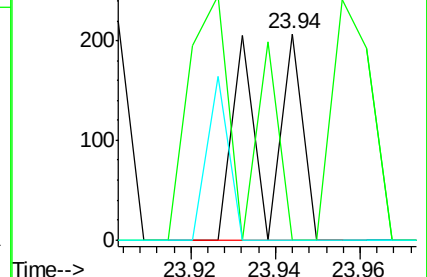
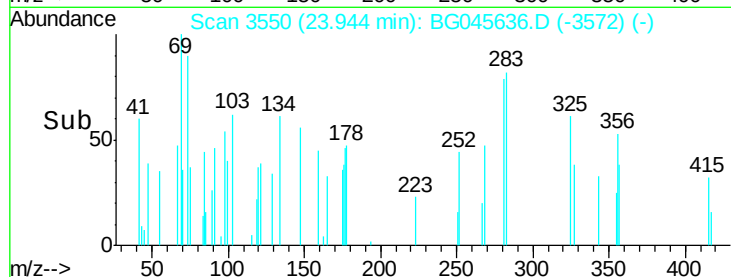
125 0.0 5.0 7.6#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#91

Dibenzo(a,h)anthracene

Concen: 24.81 ng

RT: 27.51 min Scan# 4157

Delta R.T. -0.88 min

Lab File: BG045636.D

Acq: 6 Jun 2020 5:41

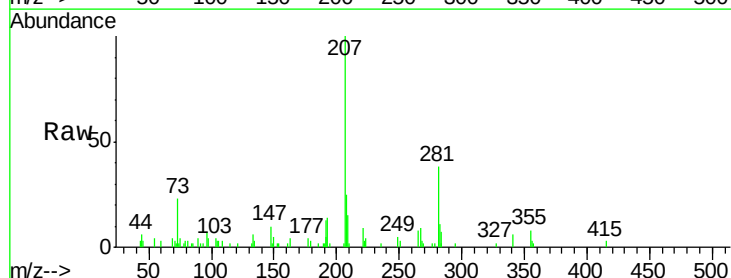
Tgt Ion:278 Resp: 66

Ion Ratio Lower Upper

278 100

139 0.0 7.8 11.8#

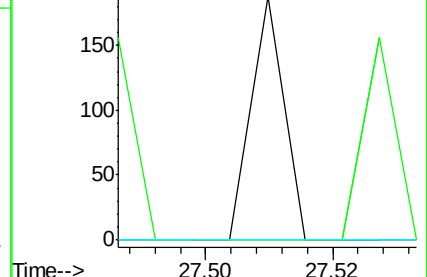
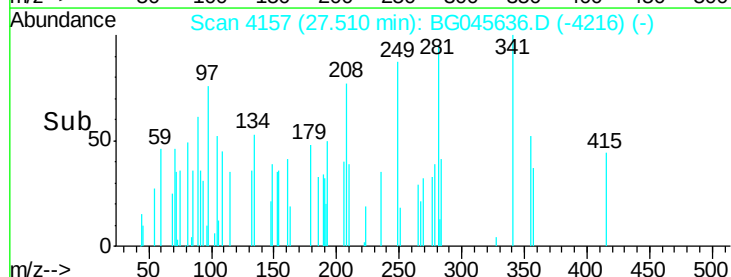
279 0.0 19.8 29.8#

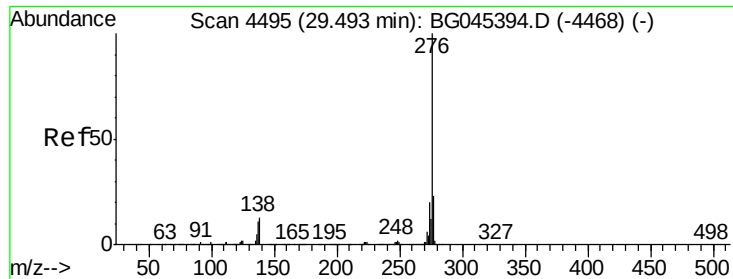


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#92

Benzo(g,h,i)perylene

Concen: 20.67 ng

RT: 28.90 min Scan# 4393

Delta R.T. -0.54 min

Lab File: BG045636.D

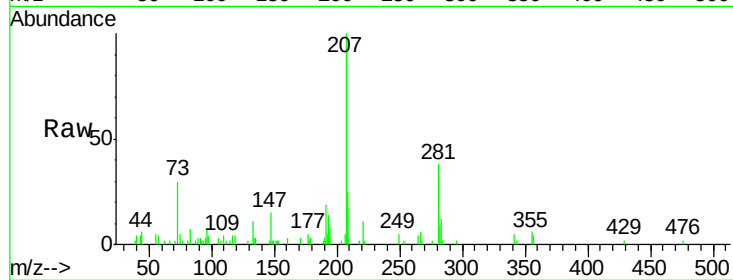
Acq: 6 Jun 2020 5:41

Instrument :

BNA_G

ClientSampleId :

PL-01-060320MSD



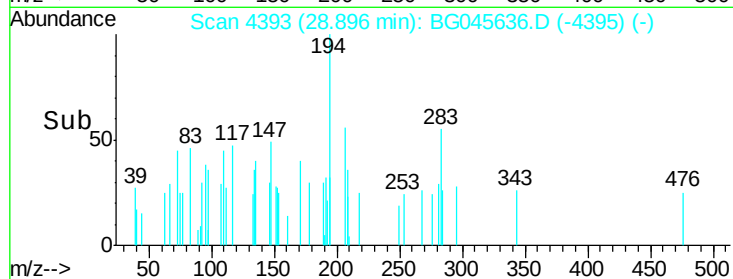
Tgt Ion: 276 Resp: 55

Ion Ratio Lower Upper

276 100

277 0.0 18.1 27.1#

138 0.0 10.2 15.4#



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

