

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG083120\
 Data File : BG046479.D
 Acq On : 31 Aug 2020 21:53
 Operator : CG/JU
 Sample : L3847-19
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 LINDEN-JOP-BH-11-A

Quant Time: Sep 01 00:46:39 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG082520.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Aug 31 16:05:33 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.93	152	90688	20.00	ng	0.00
21) Naphthalene-d8	10.73	136	385712	20.00	ng	0.00
39) Acenaphthene-d10	14.56	164	263282	20.00	ng	0.00
64) Phenanthrene-d10	17.31	188	566613	20.00	ng	0.00
76) Chrysene-d12	21.55	240	533038	20.00	ng	0.00
86) Perylene-d12	24.66	264	558889	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.51	112	472761	92.33	ng	0.00
7) Phenol-d6	7.10	99	657939	90.65	ng	0.00
23) Nitrobenzene-d5	9.09	82	433152	64.18	ng	0.00
42) 2,4,6-Tribromophenol	16.05	330	291588	81.74	ng	0.00
45) 2-Fluorobiphenyl	13.18	172	1159566	67.23	ng	0.00
79) Terphenyl-d14	19.92	244	1481155	59.14	ng	0.00

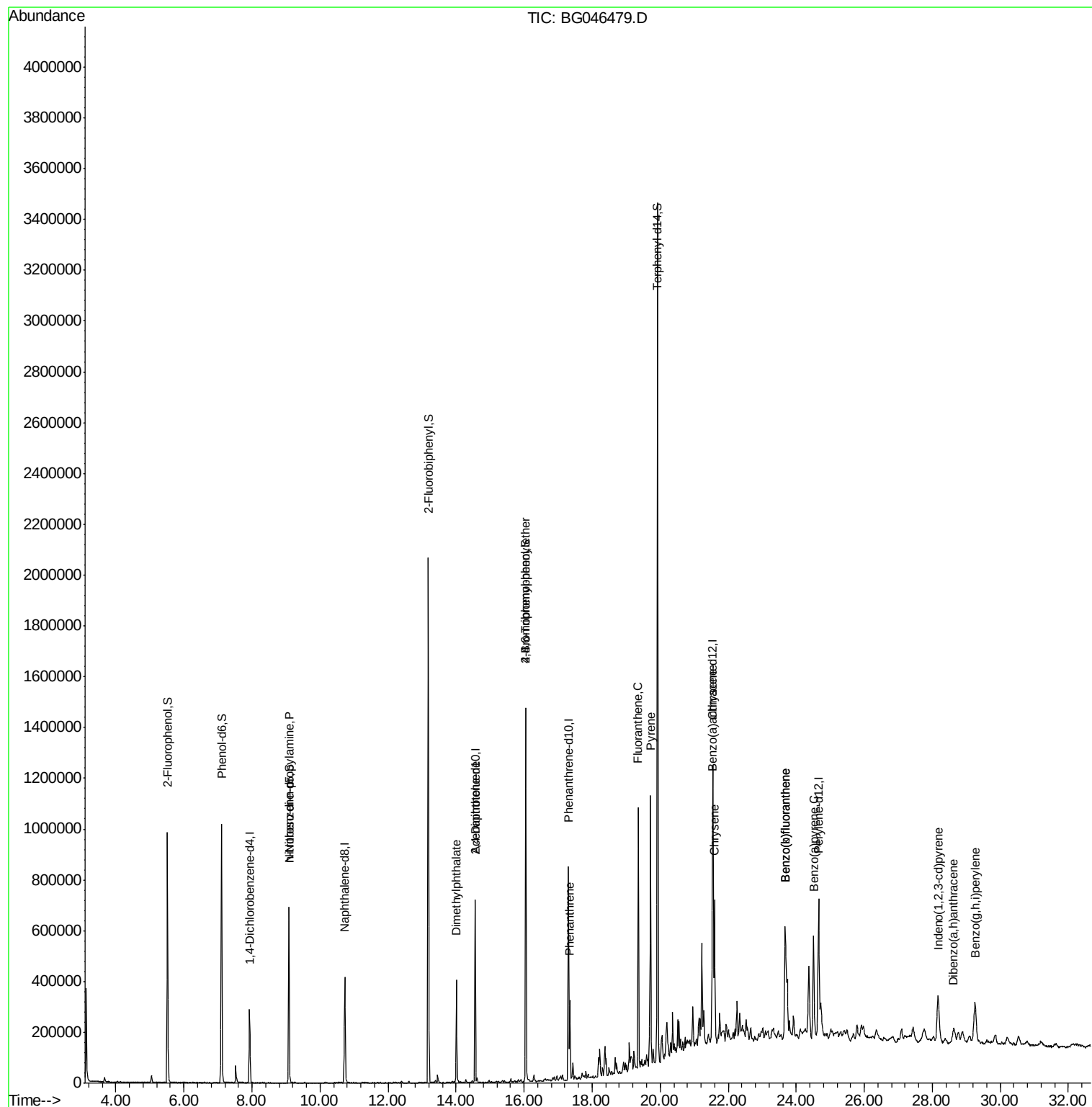
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
19) n-Nitroso-di-n-propylamine	9.09	70	54353	12.519	ng	# 78
50) Dimethylphthalate	14.01	163	293097	14.389	ng	99
57) 2,4-Dinitrotoluene	14.56	165	35241	5.505	ng	# 34
67) 4-Bromophenyl-phenylether	16.05	248	21787	3.296	ng	# 1
71) Phenanthrene	17.34	178	206579	7.193	ng	96
75) Fluoranthene	19.36	202	639246	17.296	ng	96
78) Pyrene	19.72	202	704338	20.750	ng	97
81) Benzo(a)anthracene	21.53	228	429046	12.914	ng	97
83) Chrysene	21.60	228	409118	12.801	ng	99
87) Indeno(1,2,3-cd)pyrene	28.17	276	307429	7.659	ng	97
88) Benzo(b)fluoranthene	23.68	252	582893	16.703	ng	98
89) Benzo(k)fluoranthene	23.68	252	582893	17.283	ng	98
90) Benzo(a)pyrene	24.51	252	445134	13.668	ng	99
91) Dibenzo(a,h)anthracene	28.62	278	67263	2.077	ng	95
92) Benzo(a,h,i)perylene	29.26	276	333192	10.301	ng	95

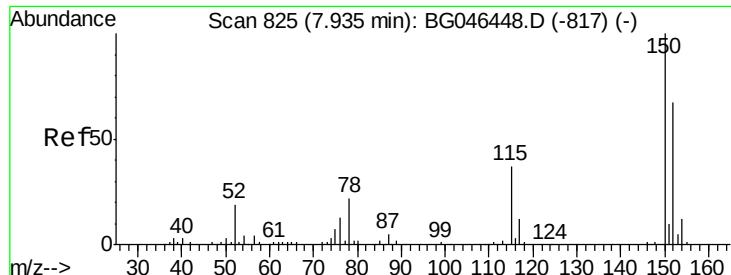
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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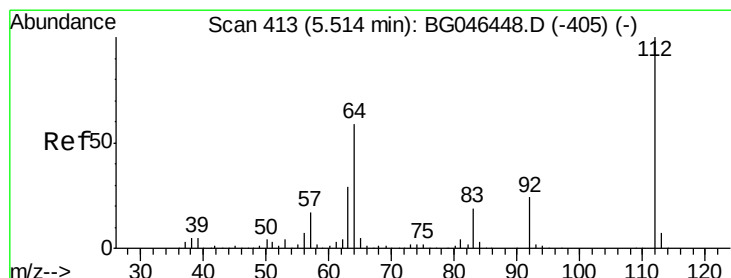
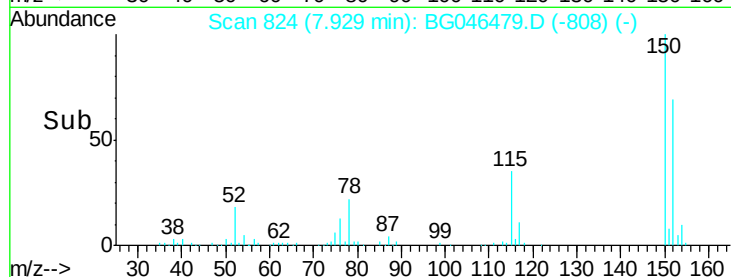
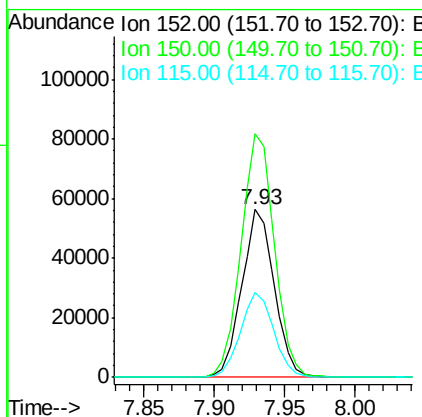
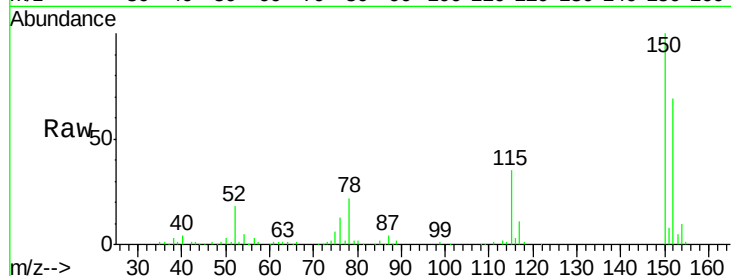




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 7.93 min Scan# 824
 Delta R.T. -0.00 min
 Lab File: BG046479.D
 Acq: 31 Aug 2020 21:53

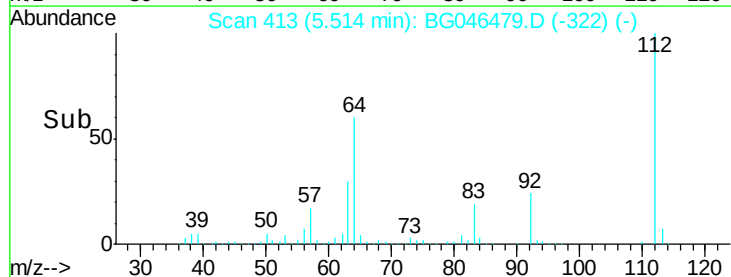
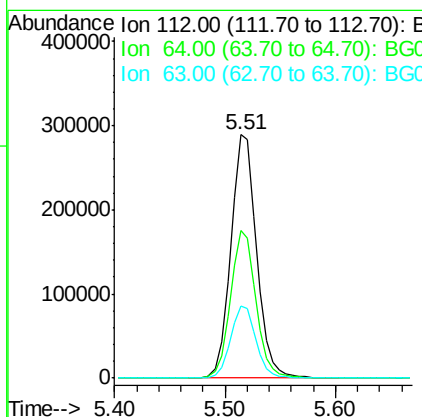
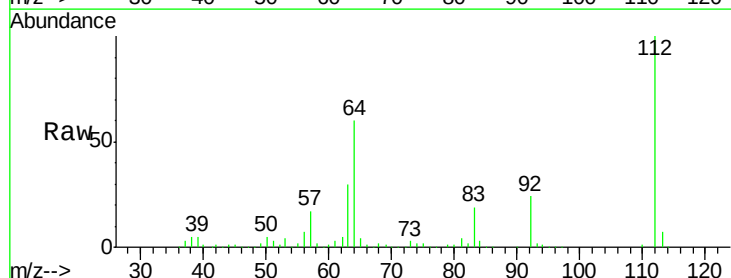
Instrument :
 BNA_G
 ClientSampleId :
 LINDEN-JOP-BH-11-A

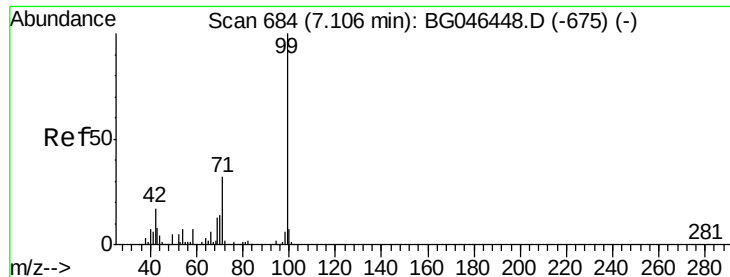
Tot Ion:152 Resp: 90688
 Ion Ratio Lower Upper
 152 100
 150 145.1 119.5 179.3
 115 50.3 44.3 66.5



#5
 2-Fluorophenol
 Concen: 92.333 ng
 RT: 5.51 min Scan# 413
 Delta R.T. 0.00 min
 Lab File: BG046479.D
 Acq: 31 Aug 2020 21:53

Tgt Ion:112 Resp: 472761
 Ion Ratio Lower Upper
 112 100
 64 60.4 47.0 70.6
 63 29.8 23.5 35.3





#7

Phenol-d6

Concen: 90.645 ng

RT: 7.10 min Scan# 683

Delta R.T. -0.00 min

Lab File: BG046479.D

Acq: 31 Aug 2020 21:53

Instrument :

BNA_G

ClientSampleId :

LINDEN-JOP-BH-11-A

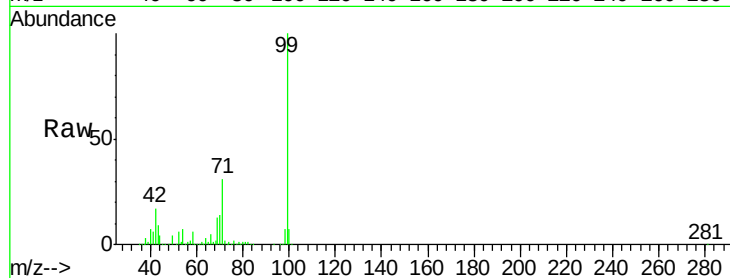
Tot Ion: 99 Resp: 657939

Ion Ratio Lower Upper

99 100

42 16.9 13.3 19.9

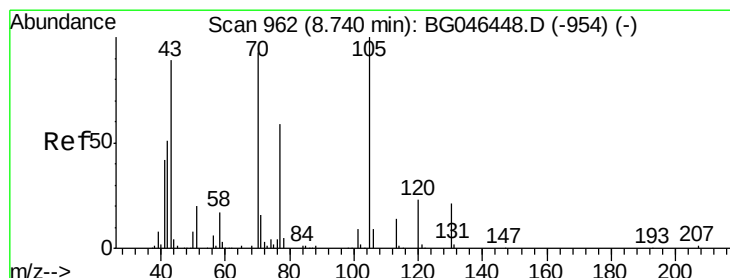
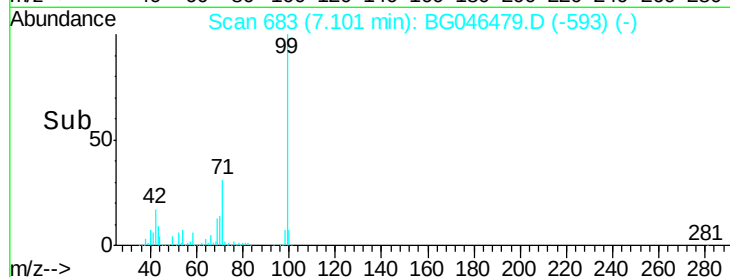
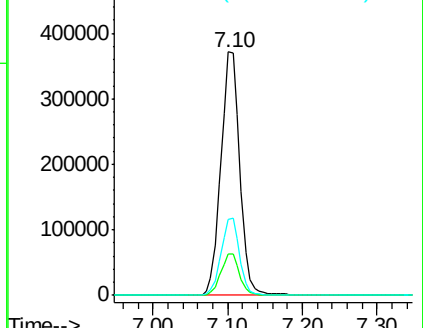
71 31.3 25.3 37.9



Abundance Ion 99.00 (98.70 to 99.70): BGC

Ion 42.00 (41.70 to 42.70): BGC

Ion 71.00 (70.70 to 71.70): BGC



#19

n-Nitroso-di-n-propylamine

Concen: 12.519 ng

RT: 9.09 min Scan# 1021

Delta R.T. 0.36 min

Lab File: BG046479.D

Acq: 31 Aug 2020 21:53

Tgt Ion: 70 Resp: 54353

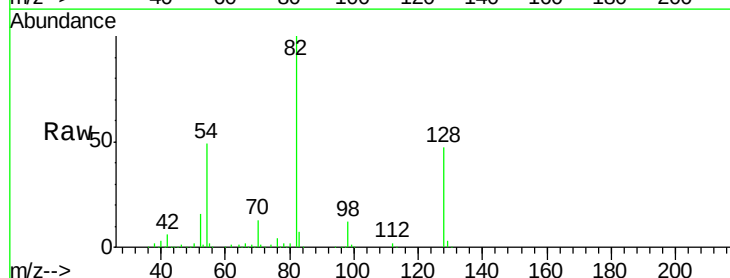
Ion Ratio Lower Upper

70 100

42 45.8 44.2 66.2

101 0.0 7.8 11.8#

130 2.4 18.2 27.4#

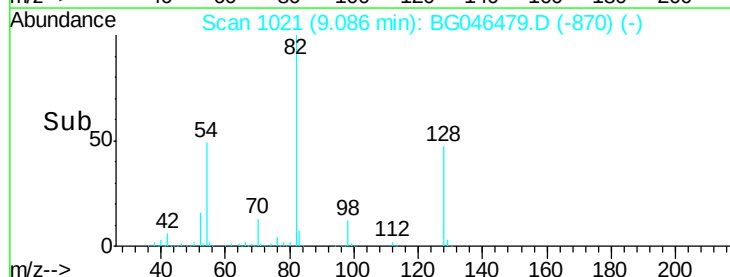
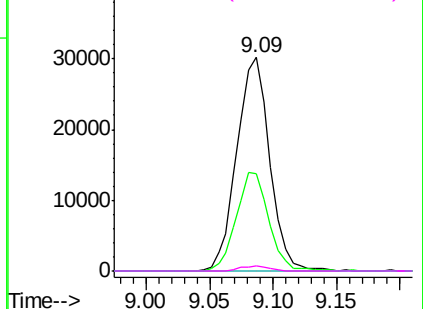


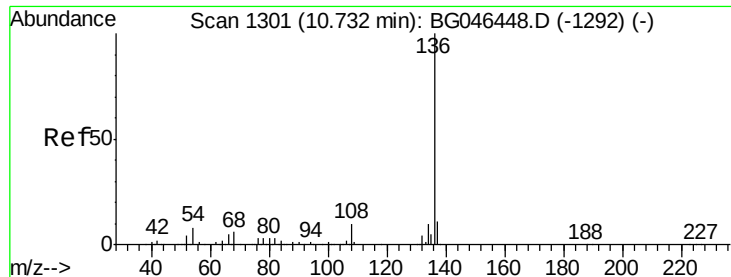
Abundance Ion 70.00 (69.70 to 70.70): BGC

Ion 42.00 (41.70 to 42.70): BGC

Ion 101.00 (100.70 to 101.70): BGC

Ion 130.00 (129.70 to 130.70): BGC





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.73 min Scan# 1300

Delta R.T. -0.00 min

Lab File: BG046479.D

Acq: 31 Aug 2020 21:53

Instrument :

BNA_G

ClientSampleId :

LINDEN-JOP-BH-11-A

Tot Ion:136 Resp: 385712

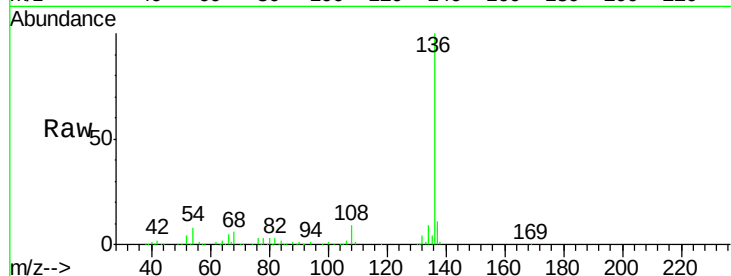
Ion Ratio Lower Upper

136 100

137 10.9 8.8 13.2

54 8.2 6.1 9.1

68 5.7 4.8 7.2

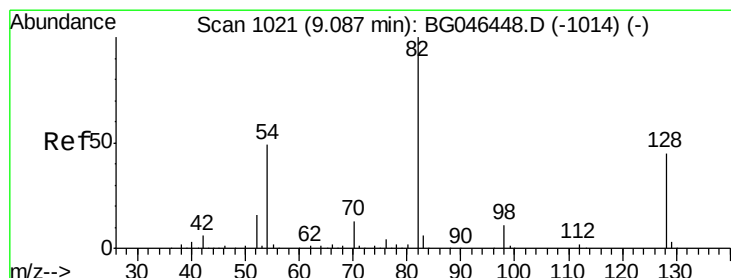
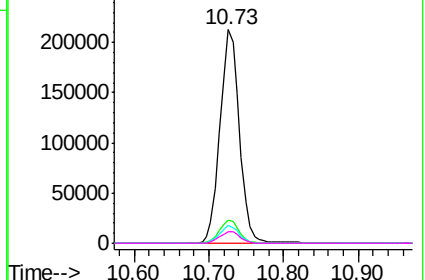
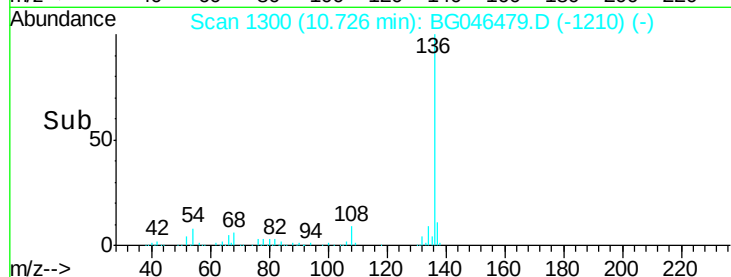


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BGC

Ion 68.00 (67.70 to 68.70): BGC



#23

Nitrobenzene-d5

Concen: 64.185 ng

RT: 9.09 min Scan# 1021

Delta R.T. 0.00 min

Lab File: BG046479.D

Acq: 31 Aug 2020 21:53

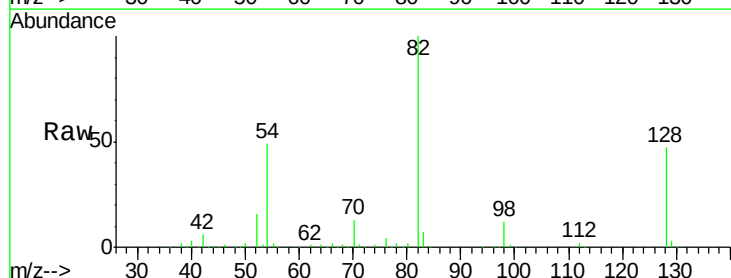
Tgt Ion: 82 Resp: 433152

Ion Ratio Lower Upper

82 100

128 46.9 35.7 53.5

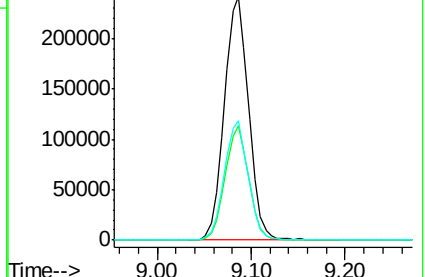
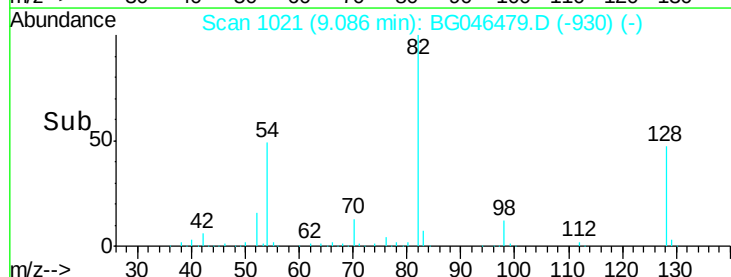
54 48.9 39.4 59.0

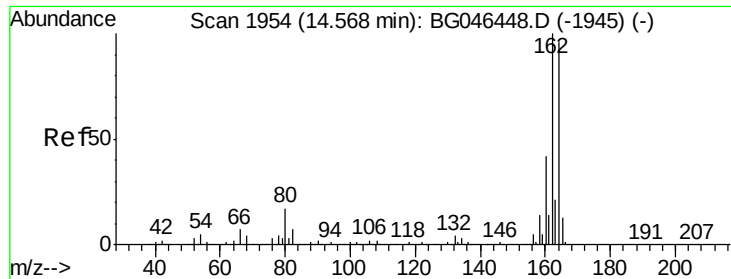


Abundance Ion 82.00 (81.70 to 82.70): BGC

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BGC





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.56 min Scan# 1953

Delta R.T. 0.00 min

Lab File: BG046479.D

Acq: 31 Aug 2020 21:53

Instrument :

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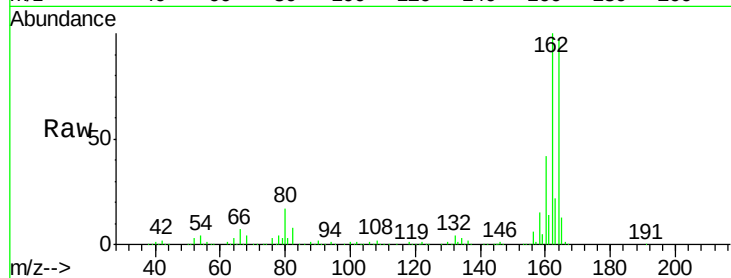
Tot Ion:164 Resp: 263282

Ion Ratio Lower Upper

164 100

162 102.9 83.3 124.9

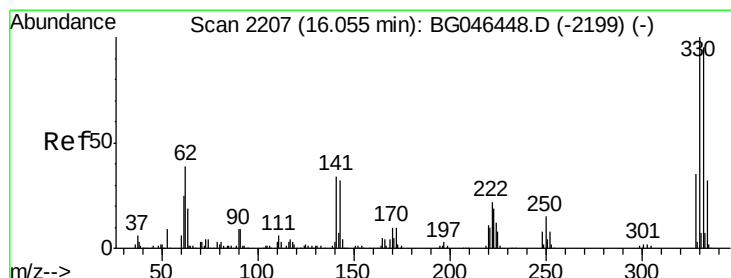
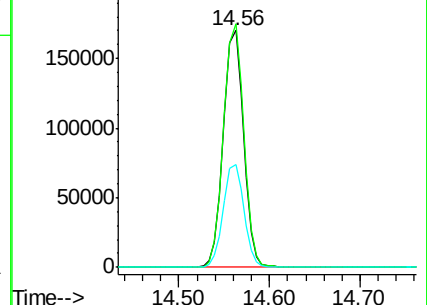
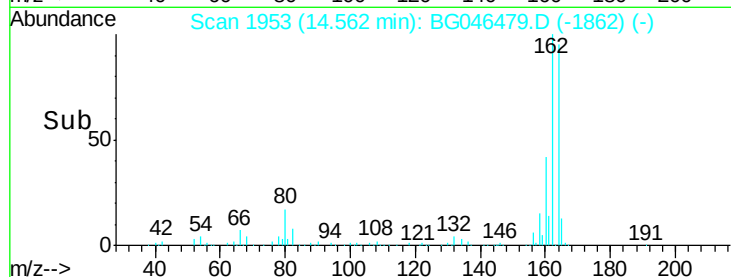
160 43.2 35.0 52.6



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#42

2,4,6-Tribromophenol

Concen: 81.739 ng

RT: 16.05 min Scan# 2206

Delta R.T. -0.00 min

Lab File: BG046479.D

Acq: 31 Aug 2020 21:53

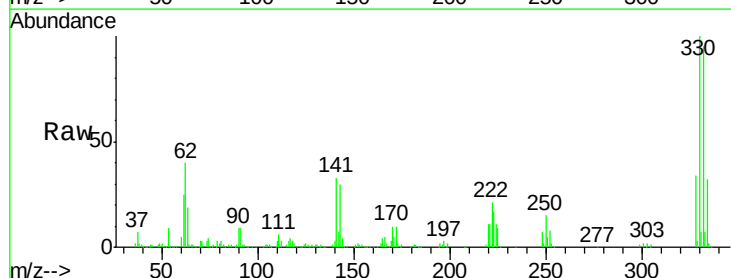
Tgt Ion:330 Resp: 291588

Ion Ratio Lower Upper

330 100

332 96.0 76.1 114.1

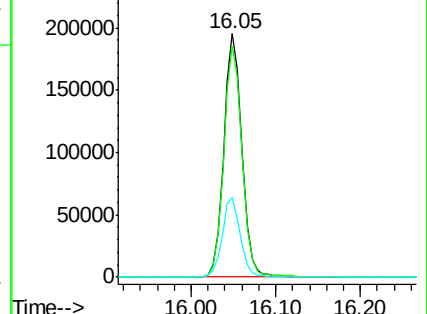
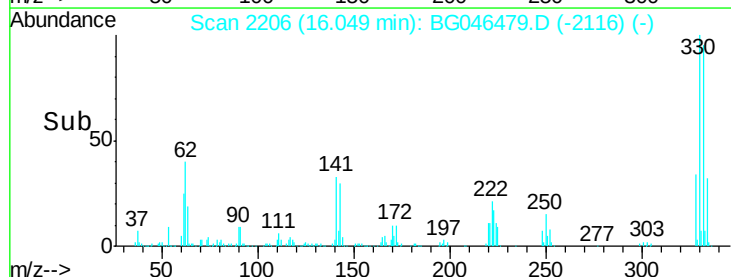
141 32.8 26.1 39.1

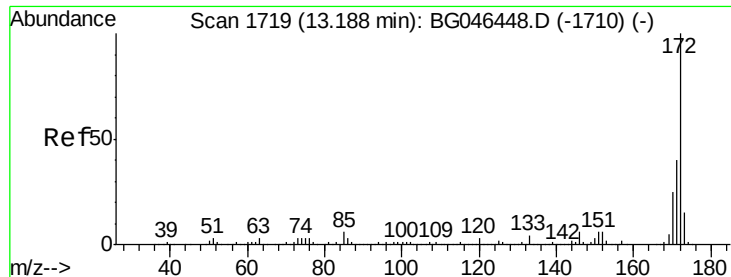


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

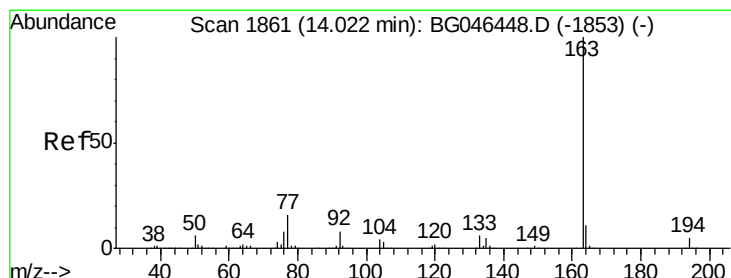
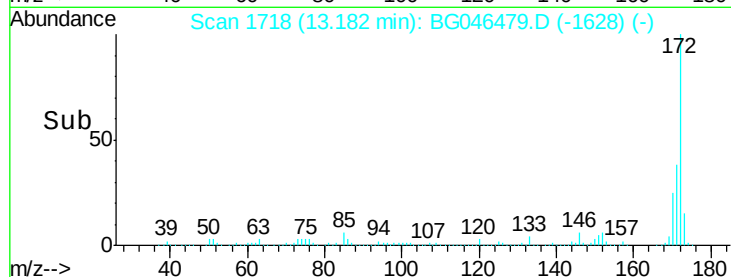
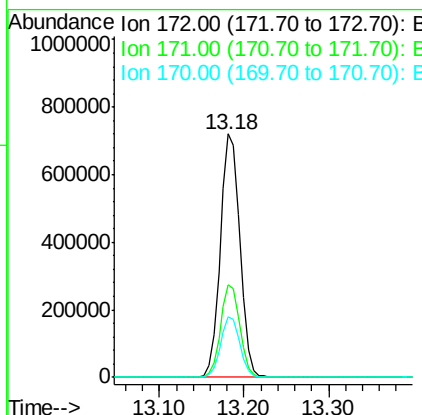
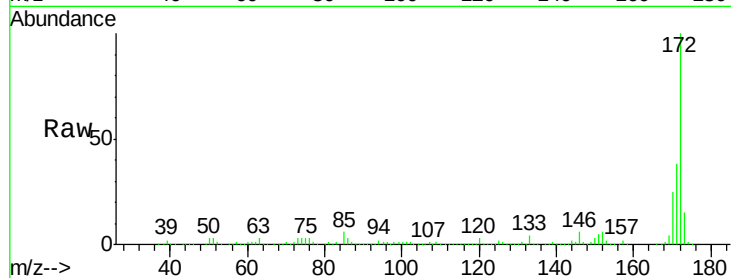




#45
2-Fluorobiphenyl
Concen: 67.234 ng
RT: 13.18 min Scan# 1718
Delta R.T. -0.00 min
Lab File: BG046479.D
Acq: 31 Aug 2020 21:53

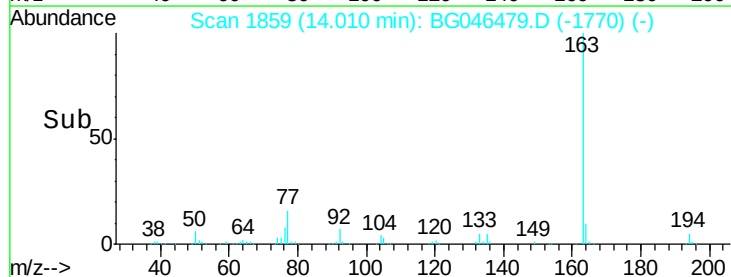
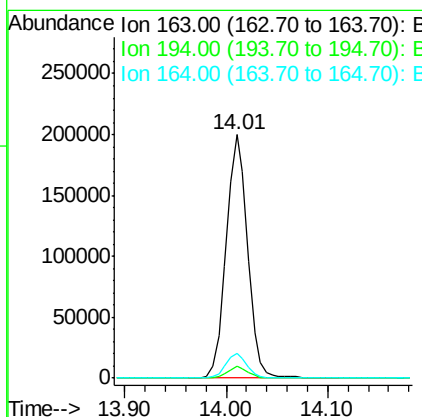
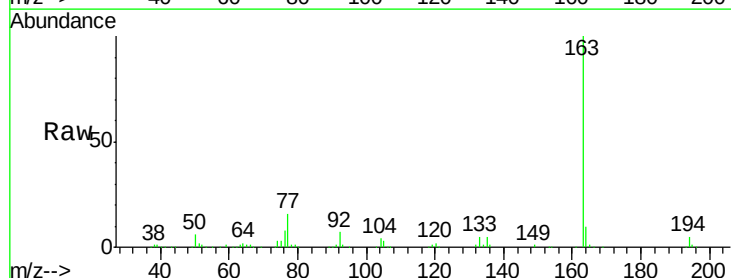
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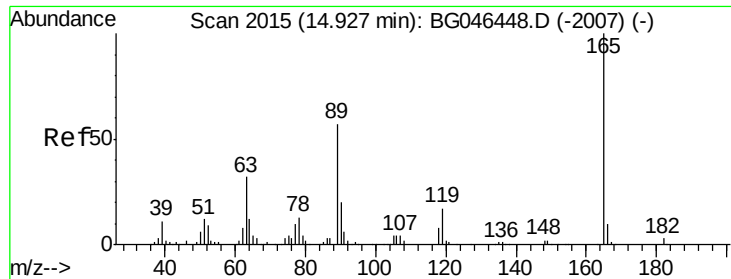
Tot Ion:172 Resp: 1159566
Ion Ratio Lower Upper
172 100
171 37.9 31.8 47.6
170 25.0 20.3 30.5



#50
Dimethylphthalate
Concen: 14.389 ng
RT: 14.01 min Scan# 1859
Delta R.T. -0.01 min
Lab File: BG046479.D
Acq: 31 Aug 2020 21:53

Tgt Ion:163 Resp: 293097
Ion Ratio Lower Upper
163 100
194 4.8 3.7 5.5
164 10.2 8.6 12.8

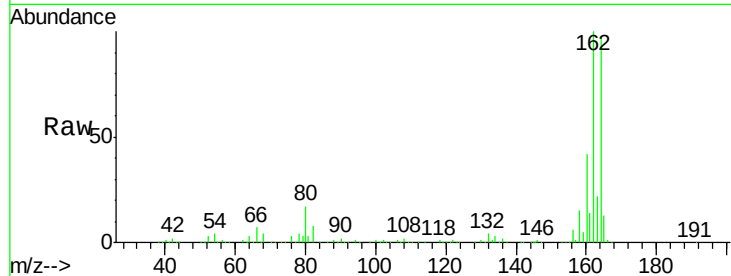




#57
 2,4-Dinitrotoluene
 Concen: 5.505 ng
 RT: 14.56 min Scan# 1953
 Delta R.T. -0.36 min
 Lab File: BG046479.D
 Acq: 31 Aug 2020 21:53

Instrument :
 BNA_G
 ClientSampleId :
 LINDEN-JOP-BH-11-A

Tot Ion	Ratio	Lower	Upper
165	100		
63	1.3	25.4	38.0#
89	2.0	45.9	68.9#
182	0.0	2.3	3.5#

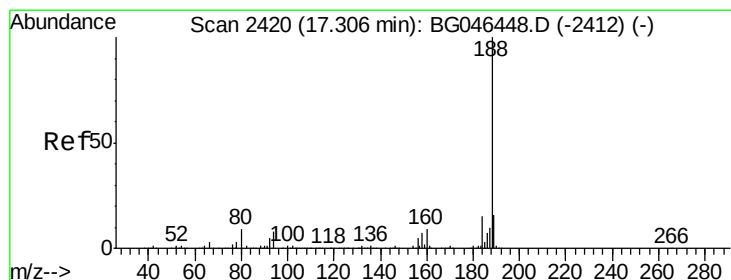
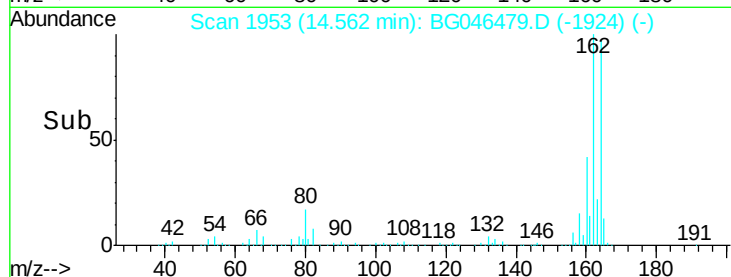
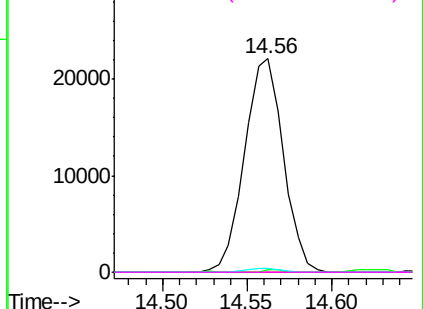


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BGC

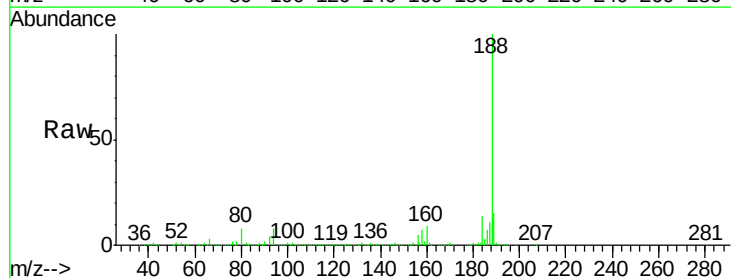
Ion 89.00 (88.70 to 89.70): BGC

Ion 182.00 (181.70 to 182.70): E



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 17.31 min Scan# 2420
 Delta R.T. 0.00 min
 Lab File: BG046479.D
 Acq: 31 Aug 2020 21:53

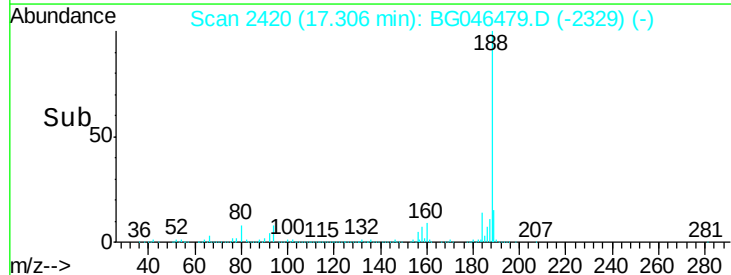
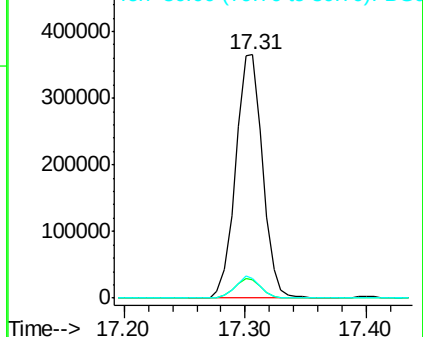
Tgt Ion	Ratio	Lower	Upper
188	100		
94	7.6	6.3	9.5
80	8.0	6.9	10.3

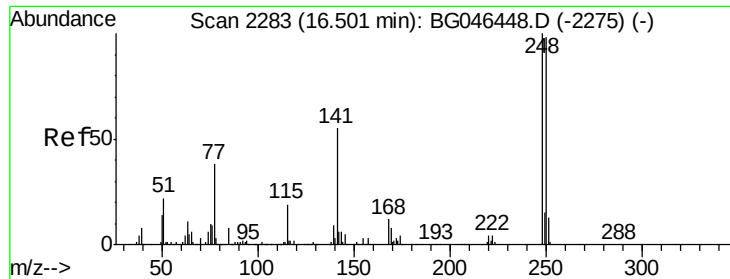


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BGC

Ion 80.00 (79.70 to 80.70): BGC

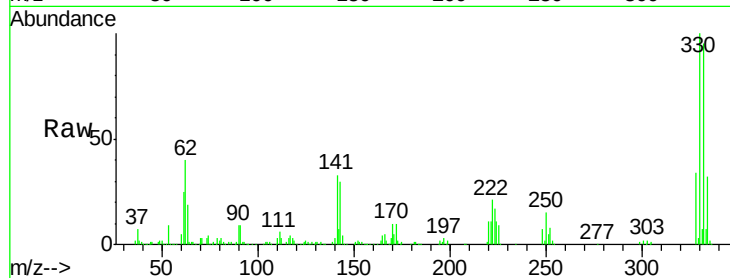




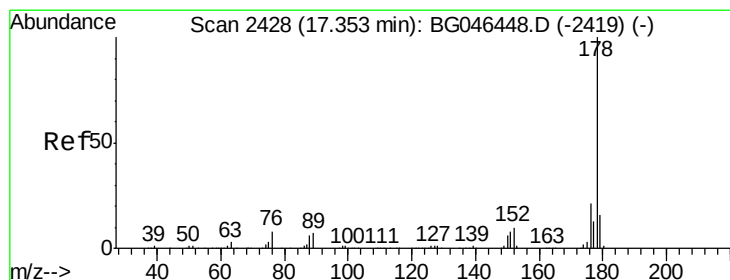
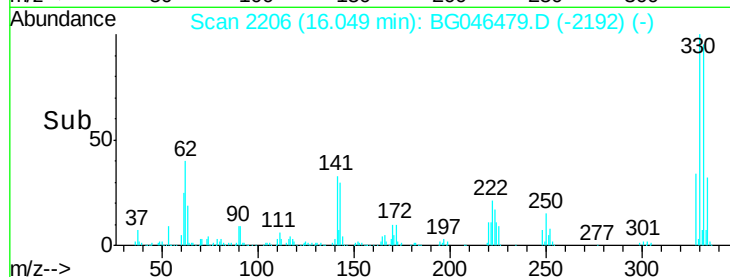
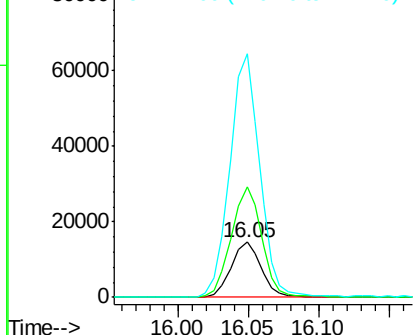
#67
 4-Bromophenyl-phenylether
 Concen: 3.296 ng
 RT: 16.05 min Scan# 2206
 Delta R.T. -0.45 min
 Lab File: BG046479.D
 Acq: 31 Aug 2020 21:53

Instrument :
 BNA_G
 ClientSampleId :
 LINDEN-JOP-BH-11-A

Tot Ion:248 Resp: 21787
 Ion Ratio Lower Upper
 248 100
 250 199.6 78.6 118.0#
 141 440.3 43.9 65.9#

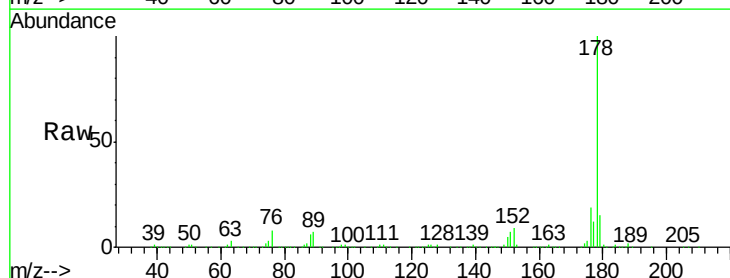


Abundance Ion 248.00 (247.70 to 248.70): E
 Ion 250.00 (249.70 to 250.70): E
 Ion 141.00 (140.70 to 141.70): E

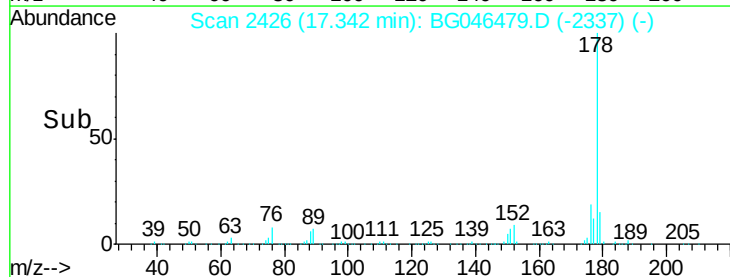
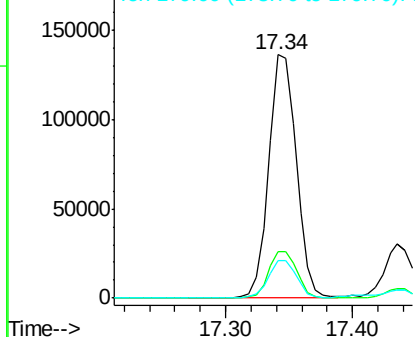


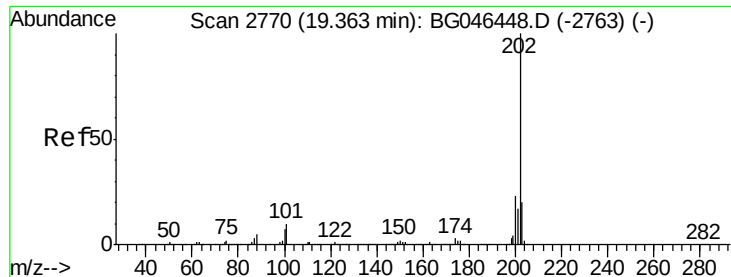
#71
 Phenanthrene
 Concen: 7.193 ng
 RT: 17.34 min Scan# 2426
 Delta R.T. -0.01 min
 Lab File: BG046479.D
 Acq: 31 Aug 2020 21:53

Tgt Ion:178 Resp: 206579
 Ion Ratio Lower Upper
 178 100
 176 19.0 16.8 25.2
 179 15.3 13.2 19.8



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





#75

Fluoranthene

Concen: 17.296 ng

RT: 19.36 min Scan# 2769

Delta R.T. -0.00 min

Lab File: BG046479.D

Acq: 31 Aug 2020 21:53

Instrument :

BNA_G

ClientSampleId :

LINDEN-JOP-BH-11-A

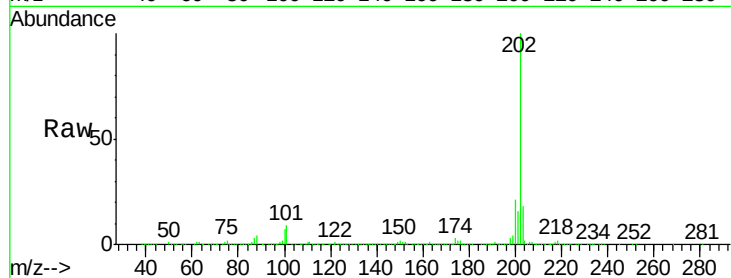
Tot Ion:202 Resp: 639246

Ion Ratio Lower Upper

202 100

101 9.1 0.0 29.9

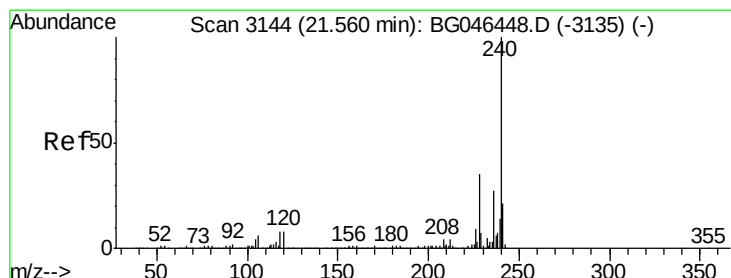
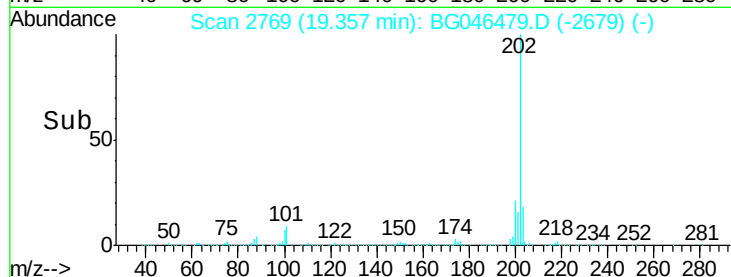
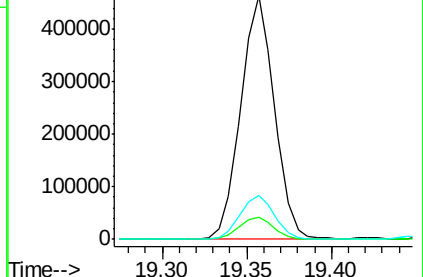
203 18.0 0.0 40.0



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: 20.000 ng

RT: 21.55 min Scan# 3143

Delta R.T. -0.00 min

Lab File: BG046479.D

Acq: 31 Aug 2020 21:53

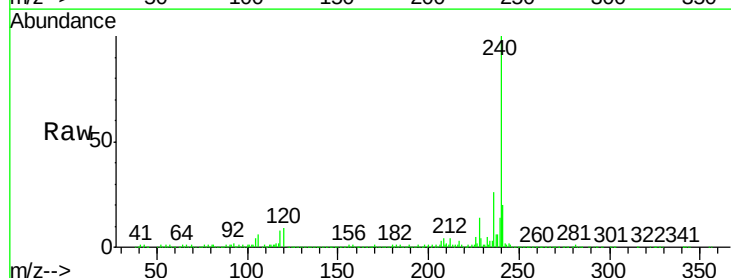
Tgt Ion:240 Resp: 533038

Ion Ratio Lower Upper

240 100

120 8.6 6.6 10.0

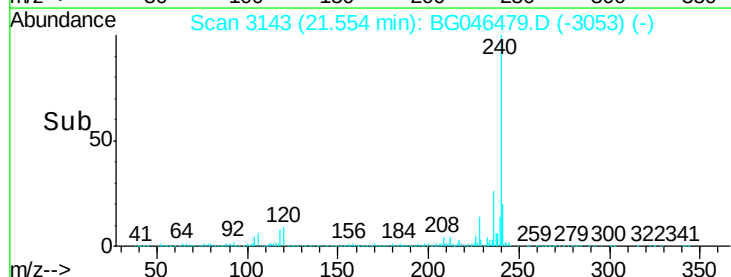
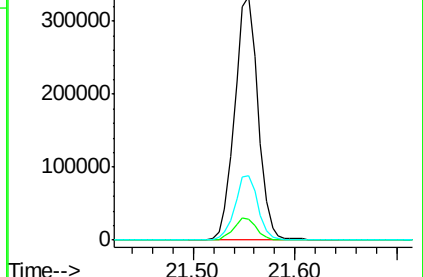
236 26.5 21.4 32.2

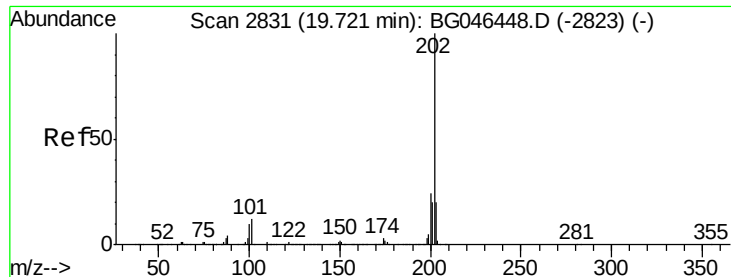


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Pvrene

Concen: 20.750 ng

RT: 19.72 min Scan# 2830

Delta R.T. -0.00 min

Lab File: BG046479.D

Acq: 31 Aug 2020 21:53

Instrument :

BNA_G

ClientSampleId :

LINDEN-JOP-BH-11-A

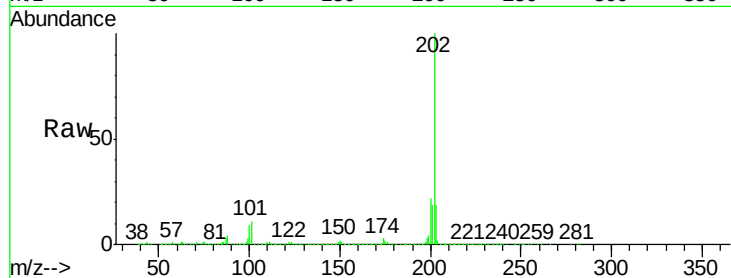
Tot Ion:202 Resp: 704338

Ion Ratio Lower Upper

202 100

200 22.1 18.9 28.3

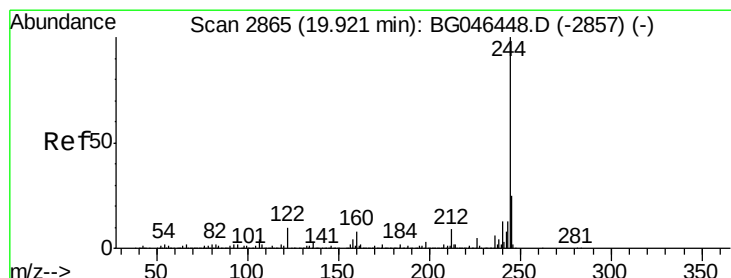
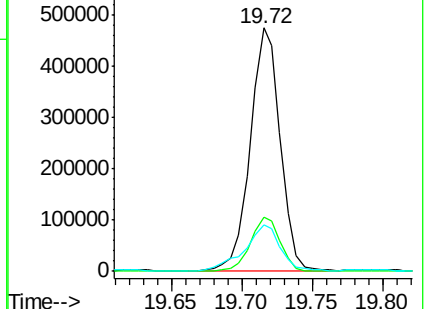
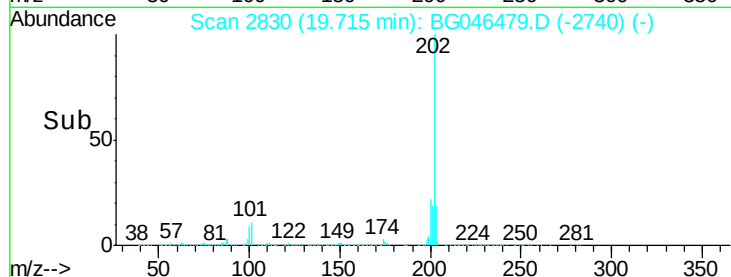
203 18.9 16.1 24.1



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#79

Terphenyl-d14

Concen: 59.136 ng

RT: 19.92 min Scan# 2865

Delta R.T. 0.00 min

Lab File: BG046479.D

Acq: 31 Aug 2020 21:53

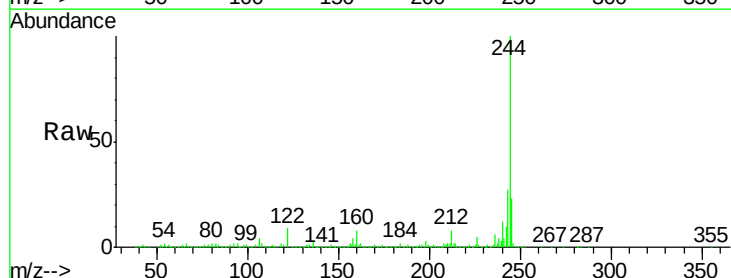
Tgt Ion:244 Resp: 1481155

Ion Ratio Lower Upper

244 100

212 8.4 6.9 10.3

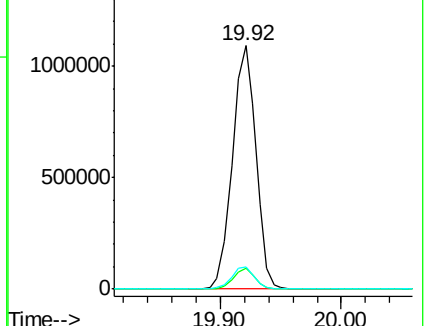
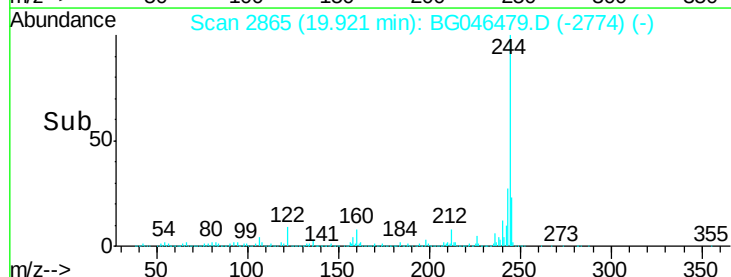
122 9.4 8.2 12.4

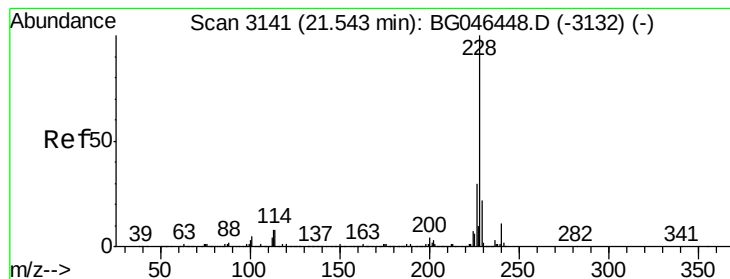


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#81

Benzo(a)anthracene

Concen: 12.914 ng

RT: 21.53 min Scan# 3139

Delta R.T. -0.00 min

Lab File: BG046479.D

Acq: 31 Aug 2020 21:53

Instrument :

BNA_G

ClientSampleId :

LINDEN-JOP-BH-11-A

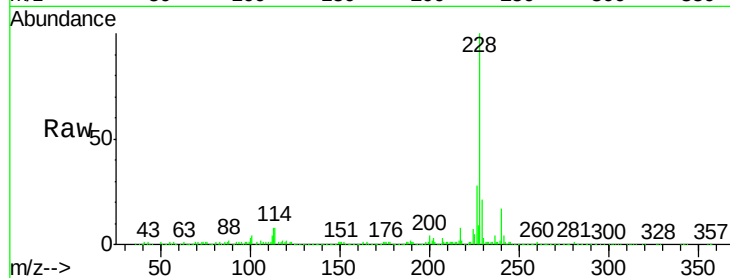
Tot Ion:228 Resp: 429046

Ion Ratio Lower Upper

228 100

226 28.0 24.2 36.4

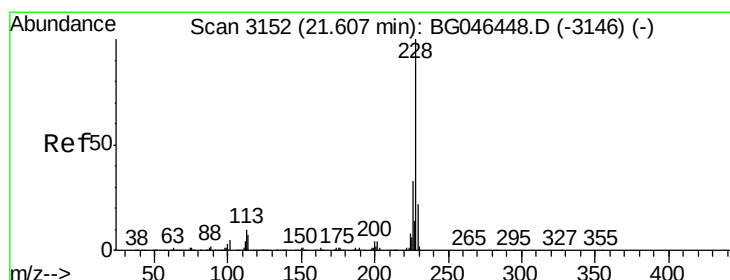
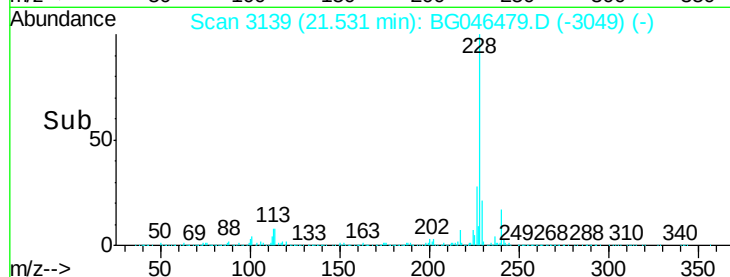
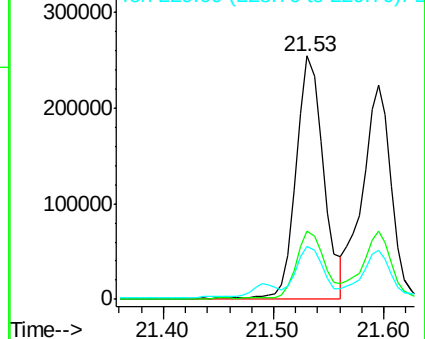
229 21.5 17.4 26.2



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



#83

Chrysene

Concen: 12.801 ng

RT: 21.60 min Scan# 3150

Delta R.T. -0.00 min

Lab File: BG046479.D

Acq: 31 Aug 2020 21:53

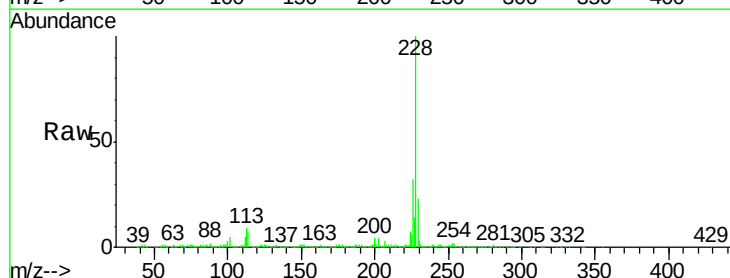
Tgt Ion:228 Resp: 409118

Ion Ratio Lower Upper

228 100

226 31.8 26.2 39.4

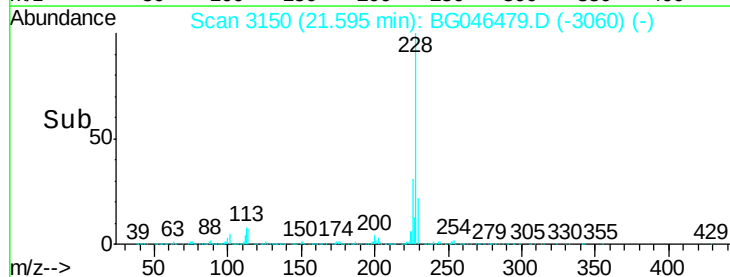
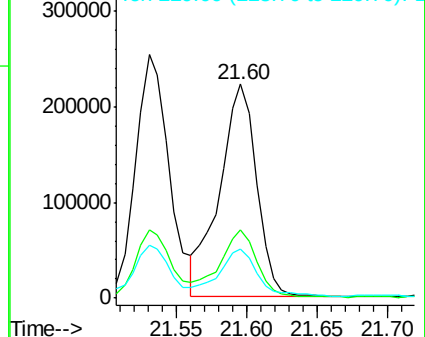
229 22.8 17.9 26.9

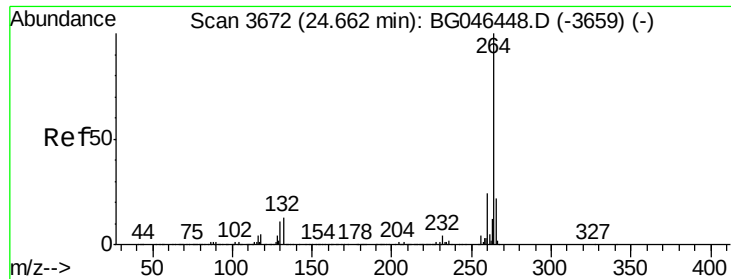


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

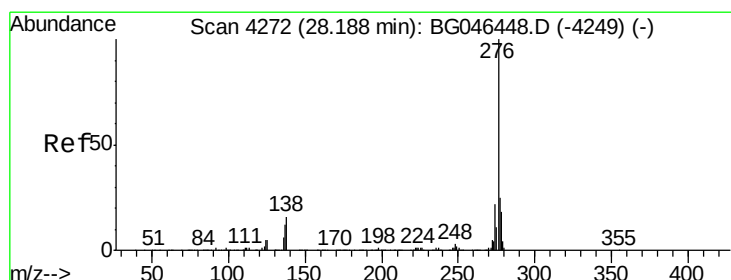
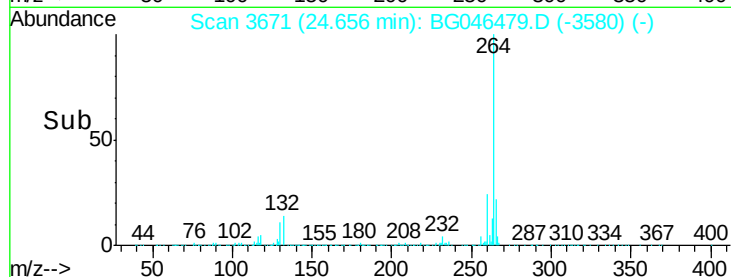
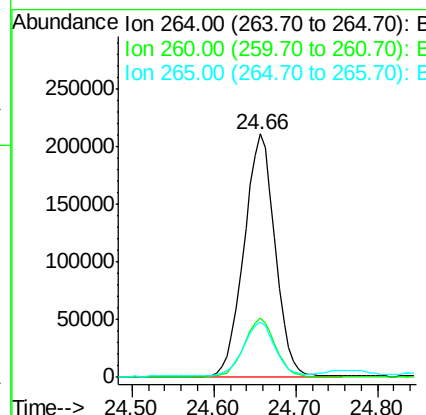
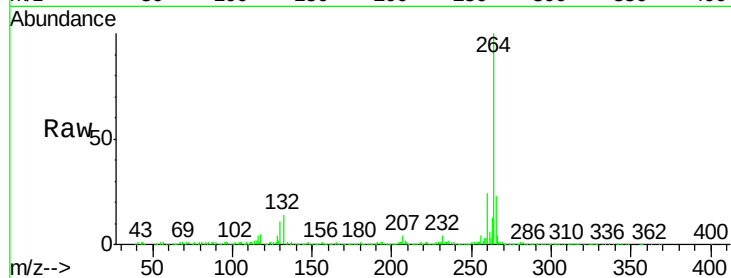




#86
Pervlene-d12
Concen: 20.000 ng
RT: 24.66 min Scan# 3671
Delta R.T. 0.00 min
Lab File: BG046479.D
Acq: 31 Aug 2020 21:53

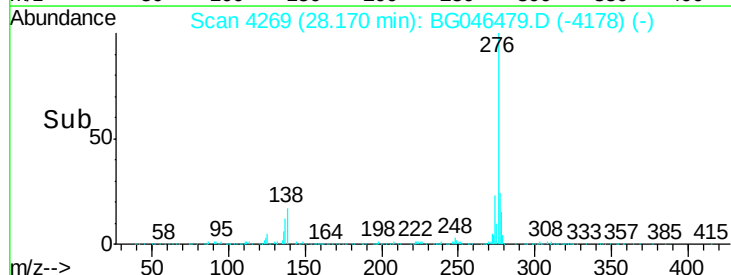
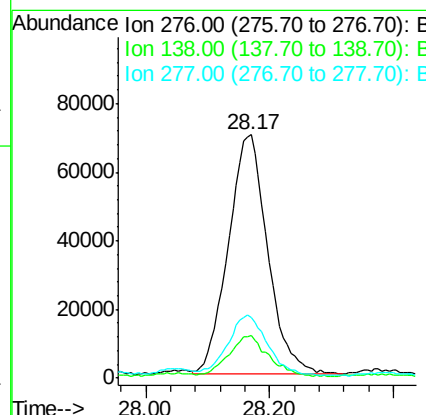
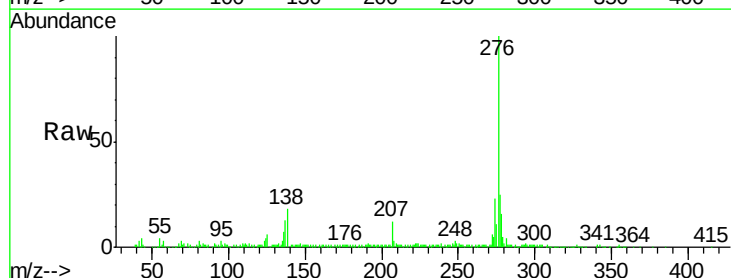
Instrument :
BNA_G
ClientSampleId :
LINDEN-JOP-BH-11-A

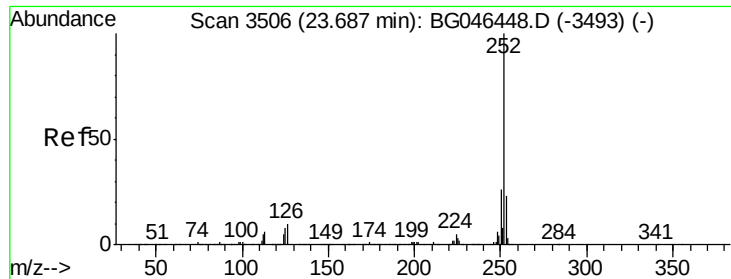
Tot Ion:264 Resp: 558889
Ion Ratio Lower Upper
264 100
260 24.2 19.2 28.8
265 22.7 17.9 26.9



#87
Indeno(1,2,3-cd)pyrene
Concen: 7.659 ng
RT: 28.17 min Scan# 4269
Delta R.T. 0.00 min
Lab File: BG046479.D
Acq: 31 Aug 2020 21:53

Tgt Ion:276 Resp: 307429
Ion Ratio Lower Upper
276 100
138 17.3 16.5 24.7
277 25.8 20.7 31.1





#88

Benzo(b)fluoranthene

Concen: 16.703 ng

RT: 23.68 min Scan# 3505

Delta R.T. 0.00 min

Lab File: BG046479.D

Acq: 31 Aug 2020 21:53

Instrument :

BNA_G

ClientSampleId :

LINDEN-JOP-BH-11-A

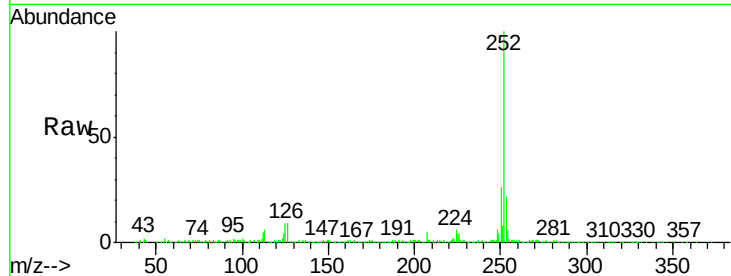
Tot Ion:252 Resp: 582893

Ion Ratio Lower Upper

252 100

253 21.8 18.2 27.4

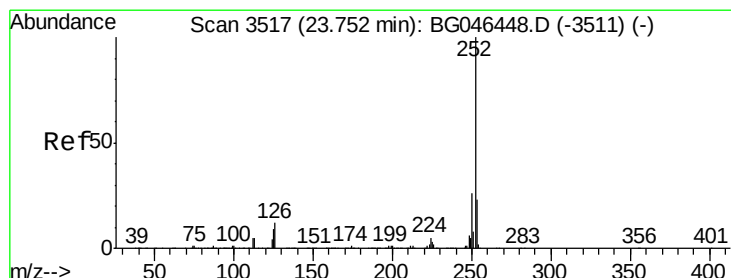
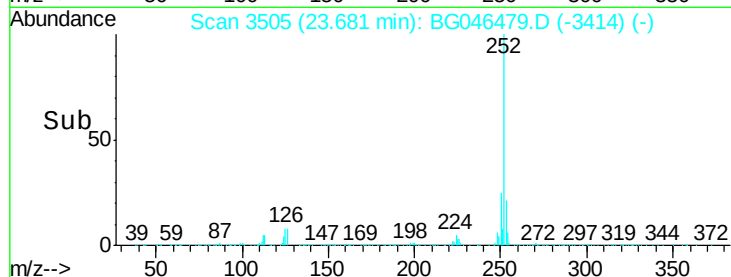
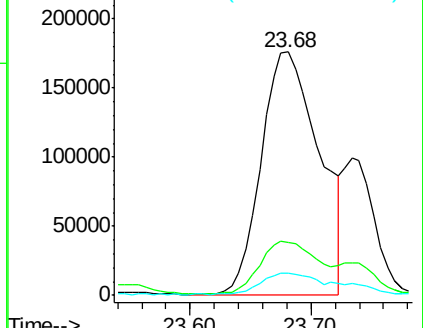
125 8.9 6.2 9.2



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: 17.283 ng

RT: 23.68 min Scan# 3505

Delta R.T. -0.06 min

Lab File: BG046479.D

Acq: 31 Aug 2020 21:53

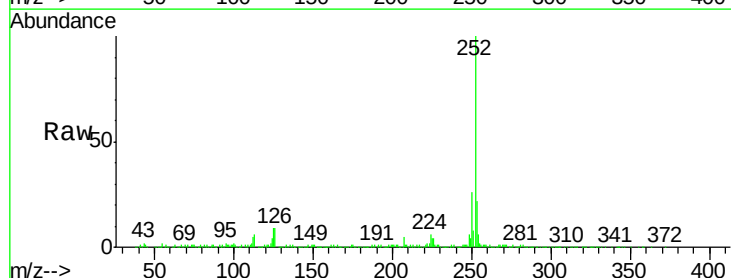
Tgt Ion:252 Resp: 582893

Ion Ratio Lower Upper

252 100

253 21.8 18.5 27.7

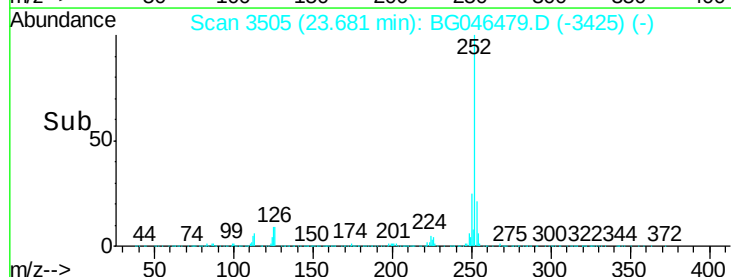
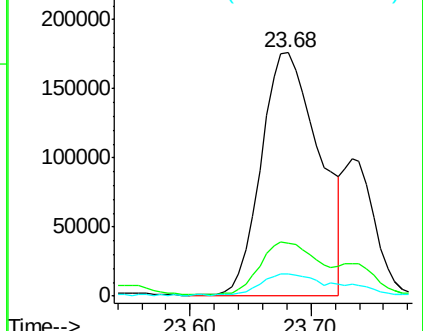
125 8.9 6.8 10.2

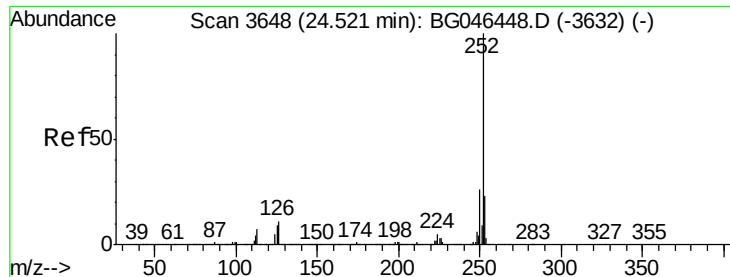


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#90

Benzo(a)pyrene

Concen: 13.668 ng

RT: 24.51 min Scan# 3646

Delta R.T. -0.00 min

Lab File: BG046479.D

Acq: 31 Aug 2020 21:53

Instrument :

BNA_G

ClientSampleId :

LINDEN-JOP-BH-11-A

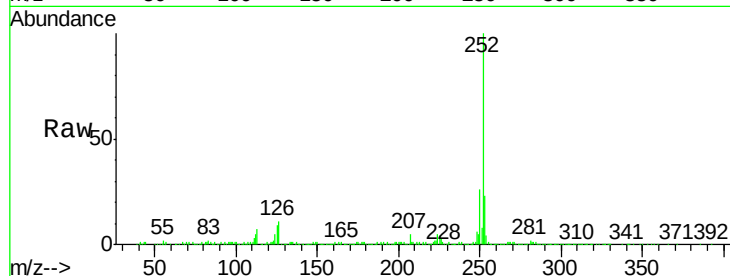
Tot Ion:252 Resp: 445134

Ion Ratio Lower Upper

252 100

253 23.4 18.2 27.4

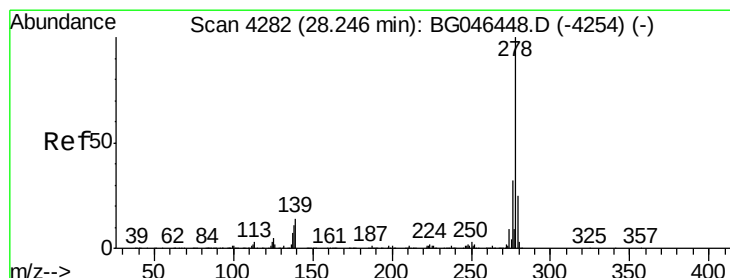
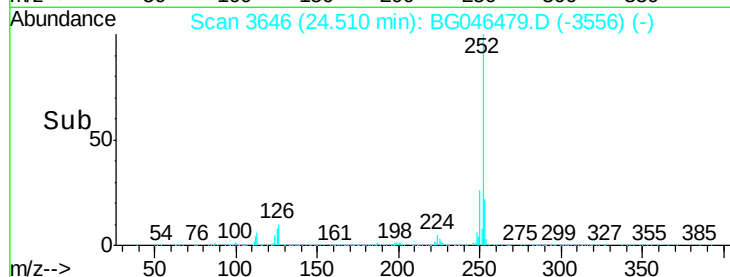
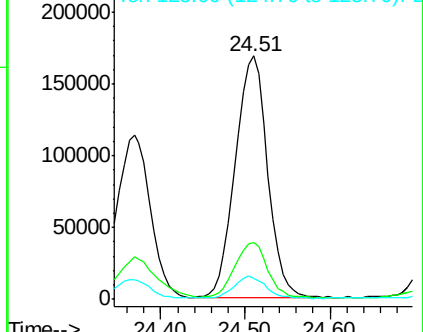
125 8.8 7.4 11.0



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: 2.077 ng

RT: 28.62 min Scan# 4345

Delta R.T. 0.38 min

Lab File: BG046479.D

Acq: 31 Aug 2020 21:53

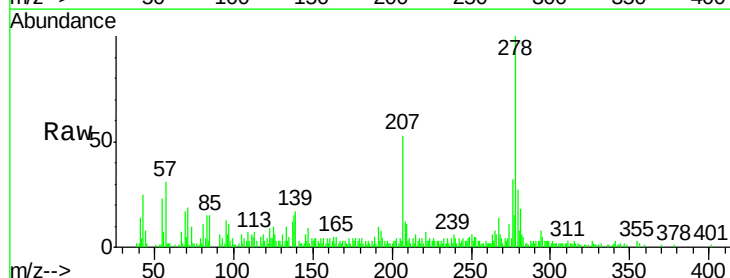
Tgt Ion:278 Resp: 67263

Ion Ratio Lower Upper

278 100

139 16.6 11.2 16.8

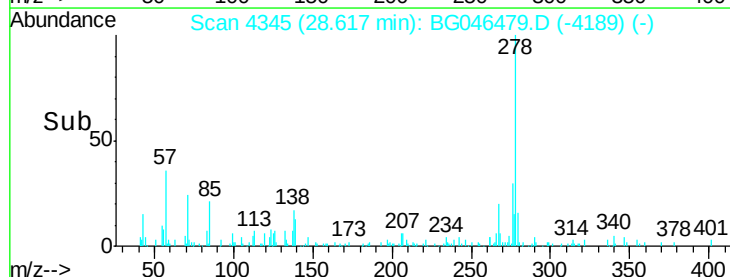
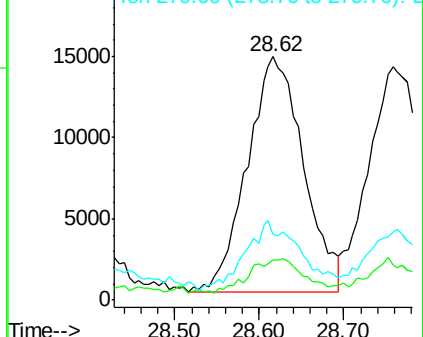
279 26.9 19.8 29.8

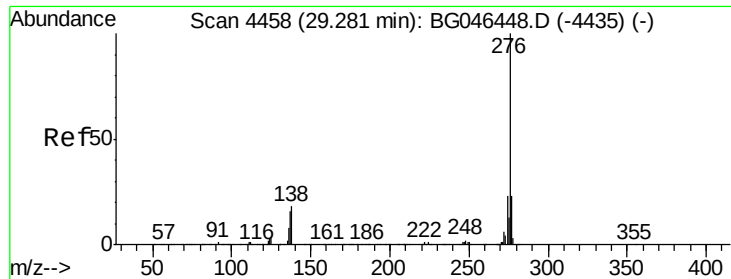


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#92

Benzo(a,h,i)perylene

Concen: 10.301 ng

RT: 29.26 min Scan# 4454

Delta R.T. -0.01 min

Lab File: BG046479.D

Acq: 31 Aug 2020 21:53

Instrument :

BNA_G

ClientSampleId :

LINDEN-JOP-BH-11-A

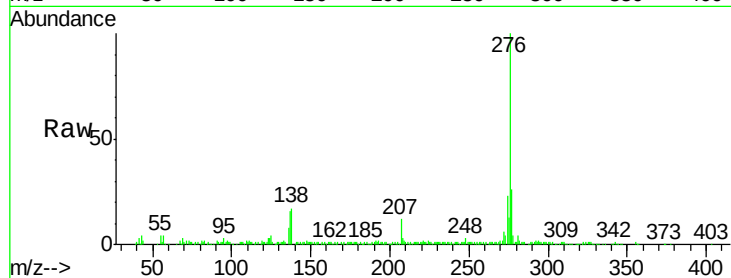
Tot Ion:276 Resp: 333192

Ion Ratio Lower Upper

276 100

277 26.2 18.7 28.1

138 16.8 14.7 22.1



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

