

Data Path : Z:\HPCHEM1\BNA E\DATA\BE022318\
 Data File : BE095685.D
 Acq On : 23 Feb 2018 16:18
 Operator : SJ/JU
 Sample : PB106752BL
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PB106752BL

Quant Time: Feb 23 18:24:49 2018
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE022318.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Feb 23 12:12:42 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.43	152	1227	0.40	ng	0.00
7) Naphthalene-d8	11.28	136	4286	0.40	ng	0.00
13) Acenaphthene-d10	15.00	164	2249	0.40	ng	0.00
19) Phenanthrene-d10	17.71	188	5367	0.40	ng	0.01
27) Chrysene-d12	21.79	240	5483	0.40	ng	0.00
34) Perylene-d12	24.43	264	5104	0.40	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.92	112	1207	0.37	ng	0.00
5) Phenol-d6	7.55	99	1528	0.34	ng	0.00
8) Nitrobenzene-d5	9.61	82	1484	0.34	ng	0.00
11) 2-Methylnaphthalene-d10	12.80	152	2503	0.35	ng	0.00
14) 2,4,6-Tribromophenol	16.47	330	218	0.32	ng	0.00
15) 2-Fluorobiphenyl	13.64	172	3575	0.36	ng	0.00
25) Fluoranthene-d10	19.69	212	25069	0.36	ng	0.00
29) Terphenyl-d14	20.25	244	3810	0.35	ng	0.00

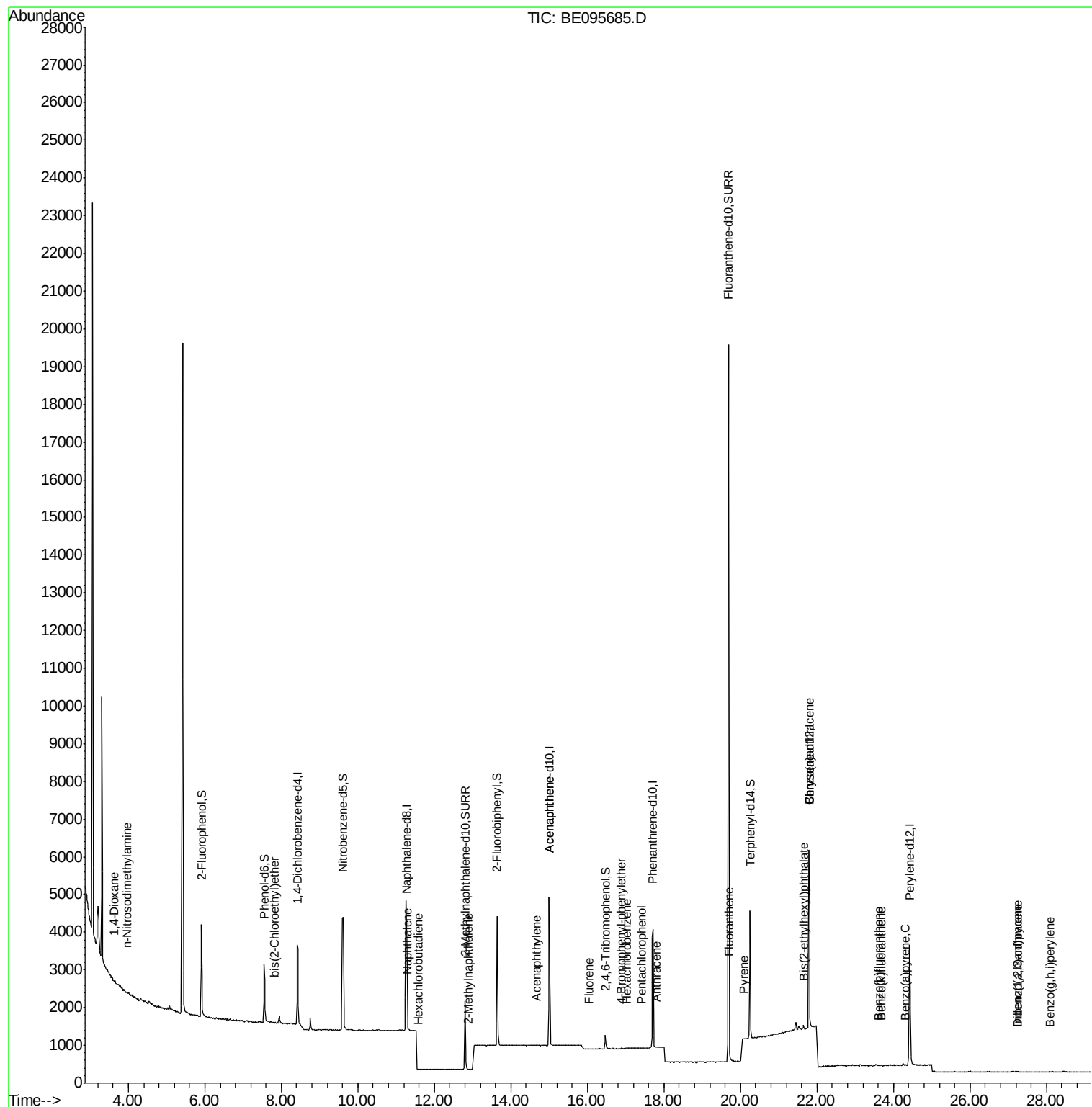
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	3.62	88	12	0.006	ng	# 16
3) n-Nitrosodimethylamine	3.98	42	39	0.016	ng	# 14
6) bis(2-Chloroethyl)ether	7.83	93	8	0.002	ng	# 1
9) Naphthalene	11.29	128	36	0.001	ng	# 38
10) Hexachlorobutadiene	11.57	225	2	0.001	ng	# 35
12) 2-Methylnaphthalene	12.89	142	1	0.000	ng	# 58
16) Acenaphthylene	14.68	152	4	0.000	ng	# 1
17) Acenaphthene	15.00	154	20	0.003	ng	# 5
18) Fluorene	16.04	166	4	0.000	ng	# 1
20) 4-Bromophenyl-phenylether	16.88	248	4	0.001	ng	# 56
21) Hexachlorobenzene	17.03	284	7	0.002	ng	# 39
22) Pentachlorophenol	17.42	266	5	0.183	ng	92
24) Anthracene	17.80	178	5	0.000	ng	# 62
26) Fluoranthene	19.71	202	3	0.000	ng	# 64
28) Pyrene	20.10	202	6	0.000	ng	# 1
30) Benzo(a)anthracene	21.79	228	53	0.003	ng	# 1
31) Chrysene	21.79	228	32	0.002	ng	# 1
32) Bis(2-ethylhexyl)phthalate	21.65	149	181	0.006	ng	# 89
33) Indeno(1,2,3-cd)pyrene	27.24	276	9	0.001	ng	# 47
35) Benzo(b)fluoranthene	23.61	252	3	0.000	ng	# 1
36) Benzo(k)fluoranthene	23.66	252	16	0.001	ng	# 1
37) Benzo(a)pyrene	24.30	252	14	0.001	ng	# 1
38) Dibenzo(a,h)anthracene	27.26	278	6	0.000	ng	# 1
39) Benzo(g,h,i)perylene	28.09	276	4	0.000	ng	# 1

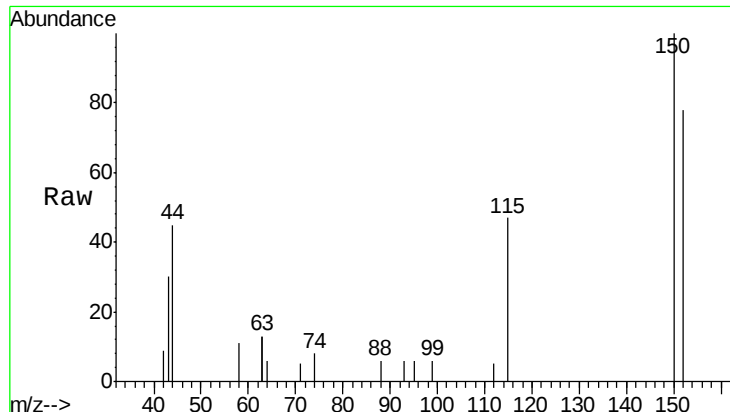
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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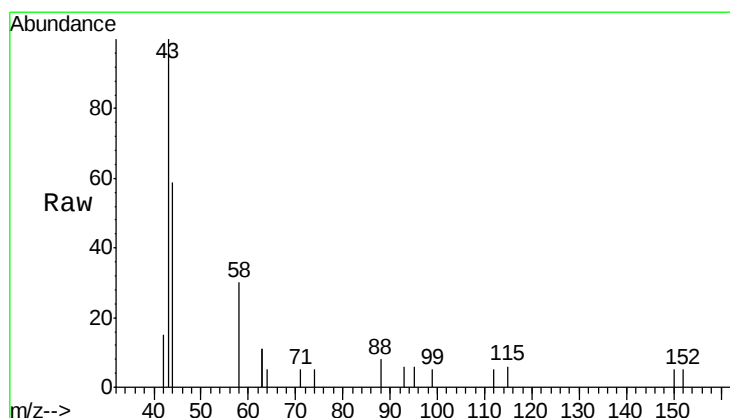
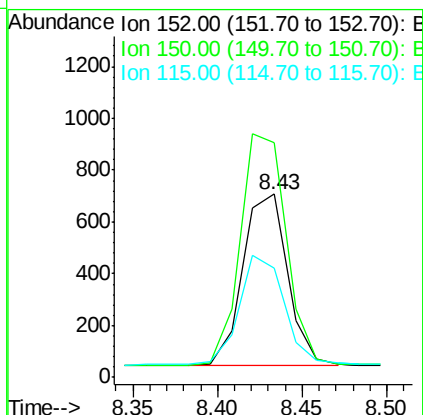
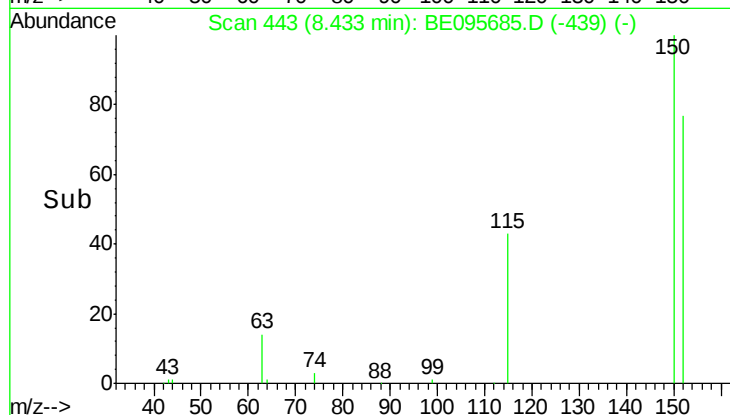




#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 8.43 min Scan# 443
 Delta R.T. -0.00 min
 Lab File: BE095685.D
 Acq: 23 Feb 2018 16:18

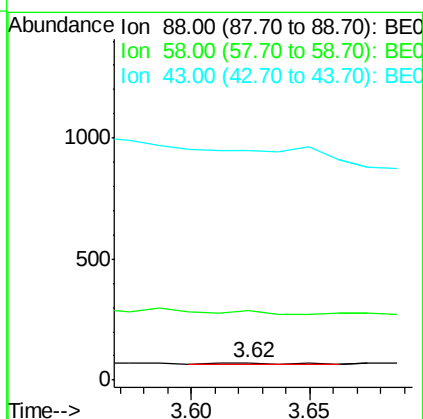
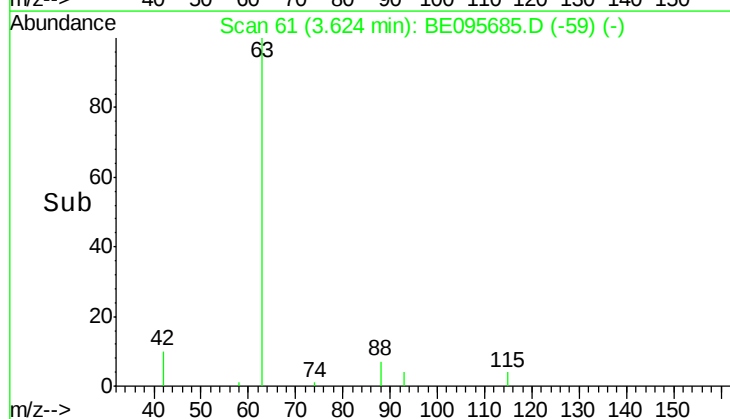
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 ClientSampleId :
 PB106752BL

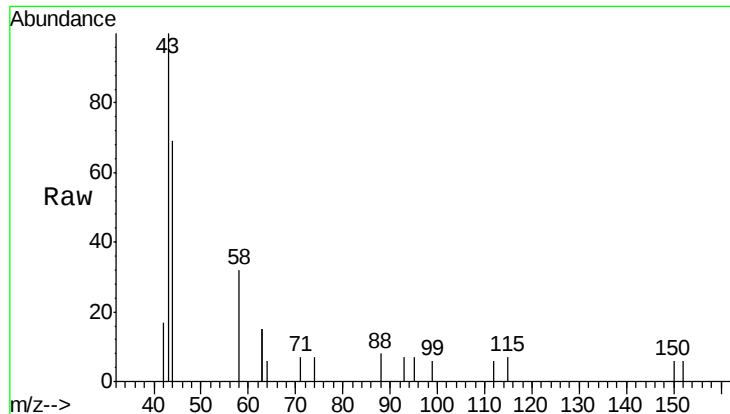
Tot Ion:152 Resp: 1227
 Ion Ratio Lower Upper
 152 100
 150 128.3 117.2 175.8
 115 59.7 57.0 85.6



#2
 1,4-Dioxane
 Concen: 0.006 ng
 RT: 3.62 min Scan# 61
 Delta R.T. -0.03 min
 Lab File: BE095685.D
 Acq: 23 Feb 2018 16:18

Tgt Ion: 88 Resp: 12
 Ion Ratio Lower Upper
 88 100
 58 0.0 63.2 94.8#
 43 0.0 41.2 61.8#

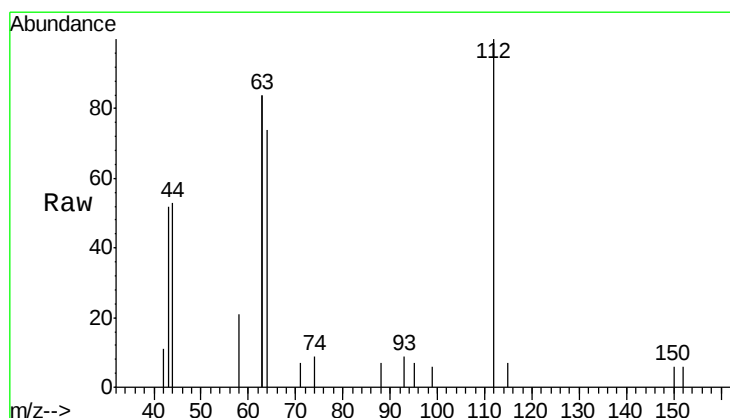
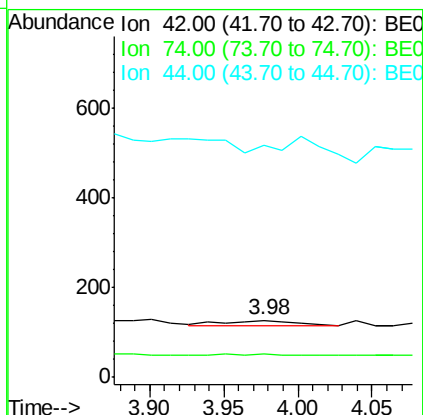
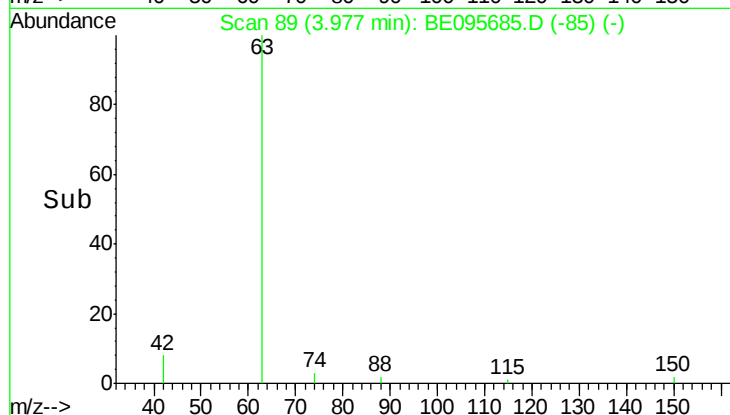




#3
 n-Nitrosodimethylamine
 Concen: 0.016 ng
 RT: 3.98 min Scan# 89
 Delta R.T. -0.03 min
 Lab File: BE095685.D
 Acq: 23 Feb 2018 16:18

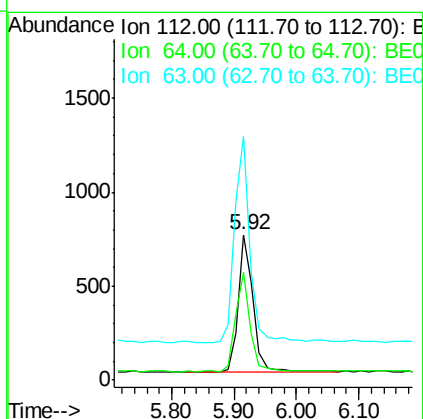
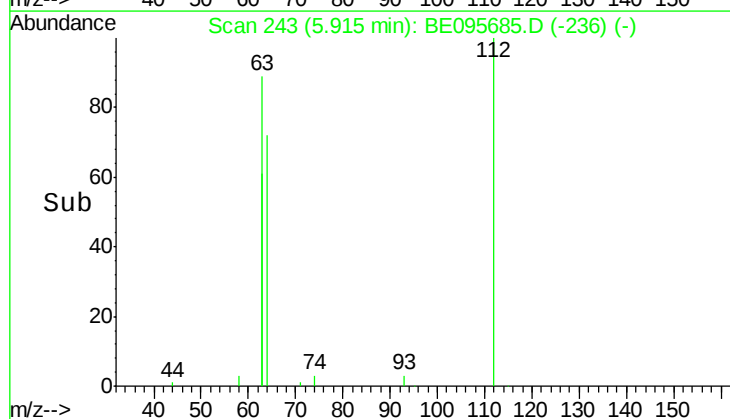
Instrument :
 BNA_E
 ClientSampleId :
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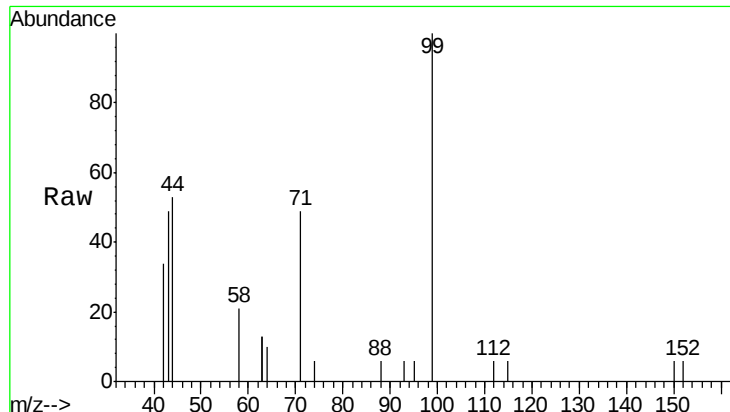
Tot Ion: 42 Resp: 39
 Ion Ratio Lower Upper
 42 100
 74 17.9 96.0 144.0#
 44 0.0 12.0 18.0#



#4
 2-Fluorophenol
 Concen: 0.373 ng
 RT: 5.92 min Scan# 243
 Delta R.T. -0.00 min
 Lab File: BE095685.D
 Acq: 23 Feb 2018 16:18

Tgt Ion: 112 Resp: 1207
 Ion Ratio Lower Upper
 112 100
 64 72.3 60.1 90.1
 63 160.1 116.8 175.2





#5

Phenol-d6

Concen: 0.341 ng

RT: 7.55 min Scan# 373

Delta R.T. -0.00 min

Lab File: BE095685.D

Acq: 23 Feb 2018 16:18

Instrument :

BNA_E

ClientSampleId :

PB106752BL

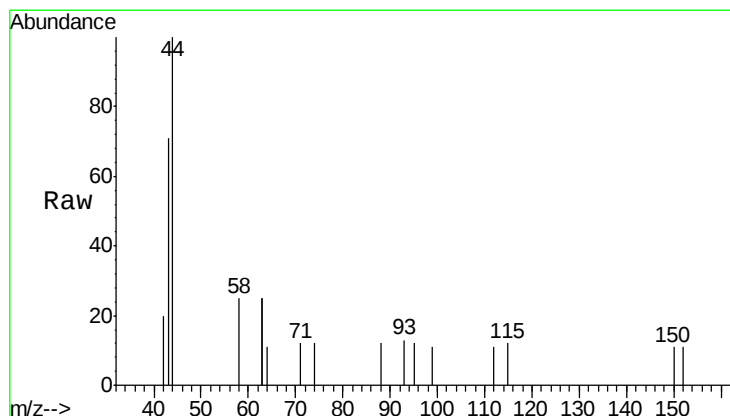
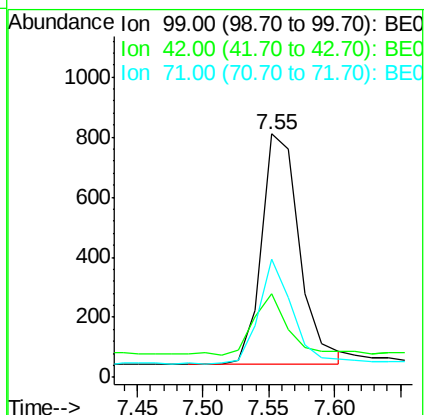
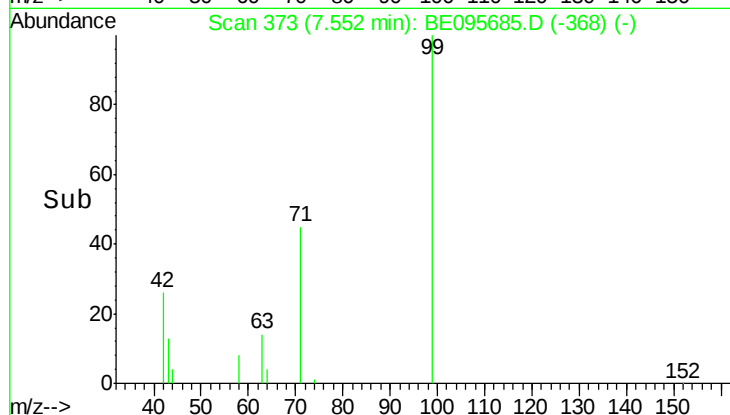
Tot Ion: 99 Resp: 1528

Ion Ratio Lower Upper

99 100

42 23.1 20.2 30.2

71 39.7 28.4 42.6



#6

bis(2-Chloroethyl)ether

Concen: 0.002 ng

RT: 7.83 min Scan# 395

Delta R.T. -0.00 min

Lab File: BE095685.D

Acq: 23 Feb 2018 16:18

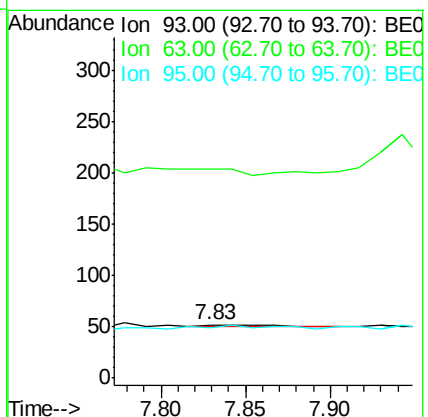
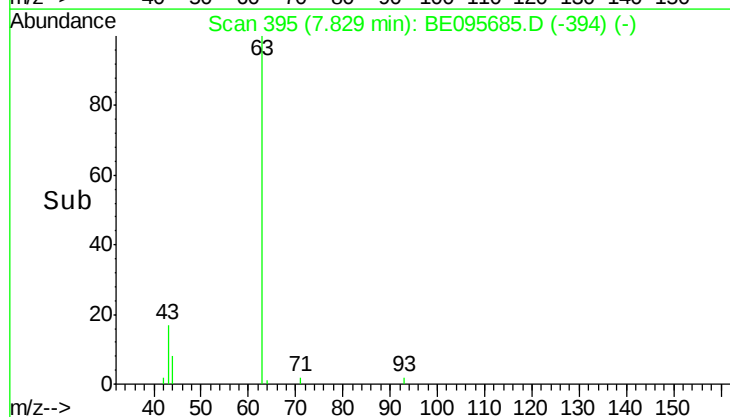
Tgt Ion: 93 Resp: 8

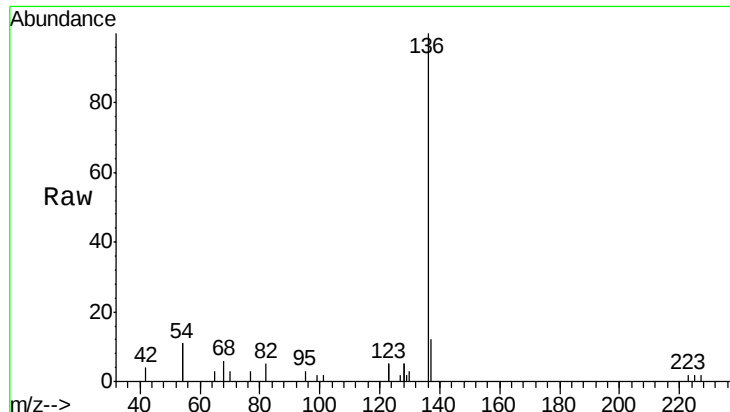
Ion Ratio Lower Upper

93 100

63 0.0 275.3 412.9#

95 100.0 25.2 37.8#

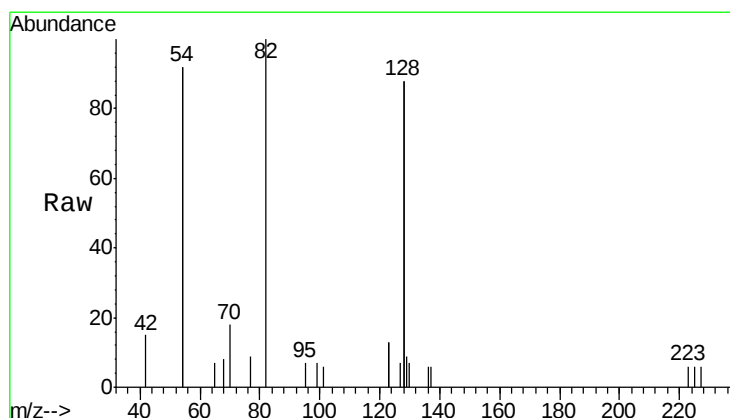
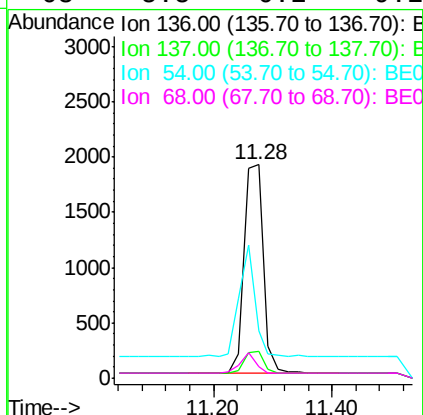
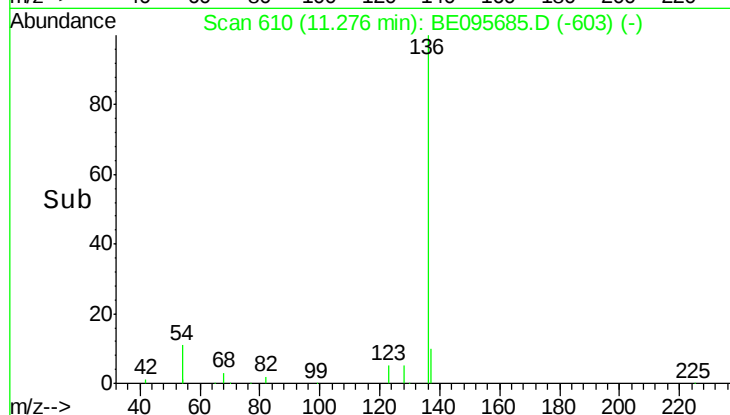




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 11.28 min Scan# 610
Delta R.T. 0.00 min
Lab File: BE095685.D
Acq: 23 Feb 2018 16:18

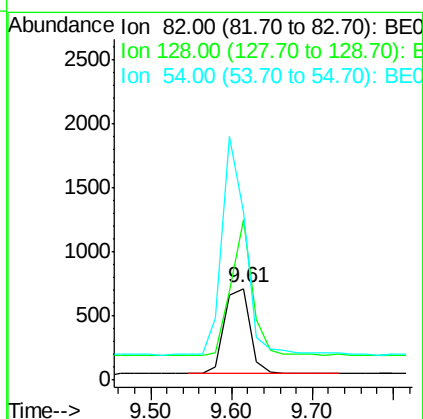
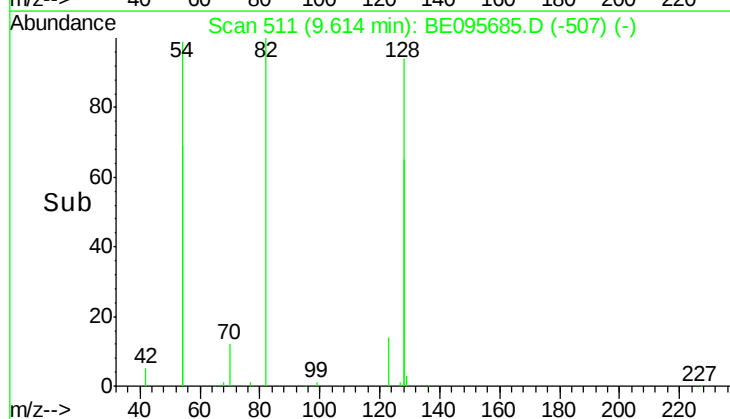
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ClientSampleId :
PB106752BL

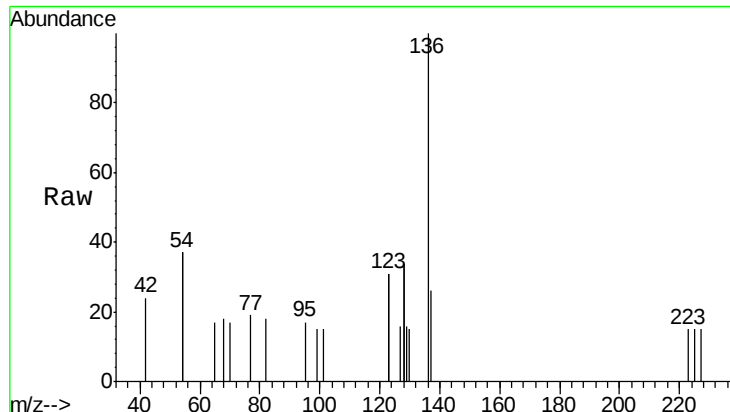
Tot Ion:136 Resp: 4286
Ion Ratio Lower Upper
136 100
137 12.5 9.5 14.3
54 22.2 29.1 43.7#
68 5.5 6.2 9.2#



#8
Nitrobenzene-d5
Concen: 0.336 ng
RT: 9.61 min Scan# 511
Delta R.T. 0.00 min
Lab File: BE095685.D
Acq: 23 Feb 2018 16:18

Tgt Ion: 82 Resp: 1484
Ion Ratio Lower Upper
82 100
128 175.6 150.0 225.0
54 183.8 154.2 231.4

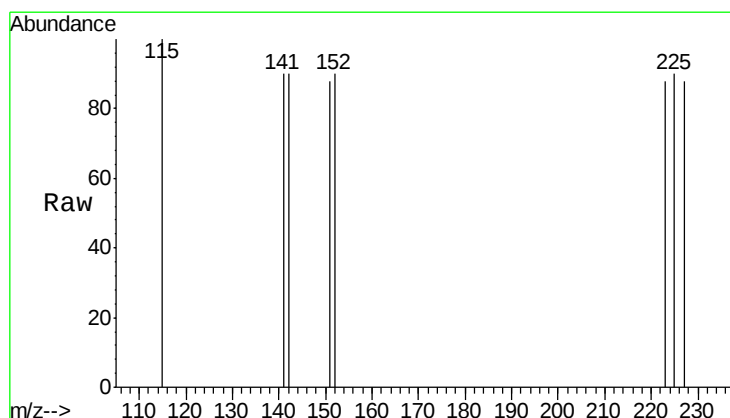
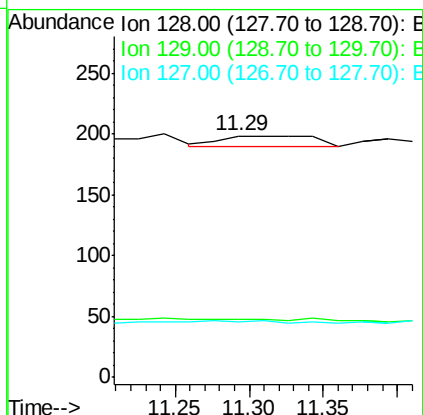
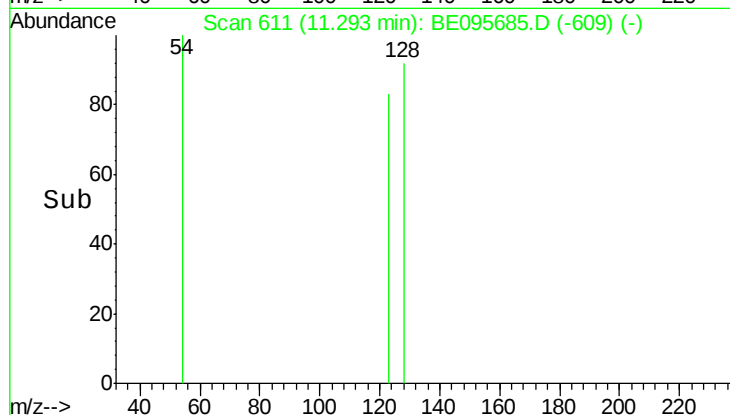




#9
Naphthalene
Concen: 0.001 ng
RT: 11.29 min Scan# 611
Delta R.T. -0.02 min
Lab File: BE095685.D
Acq: 23 Feb 2018 16:18

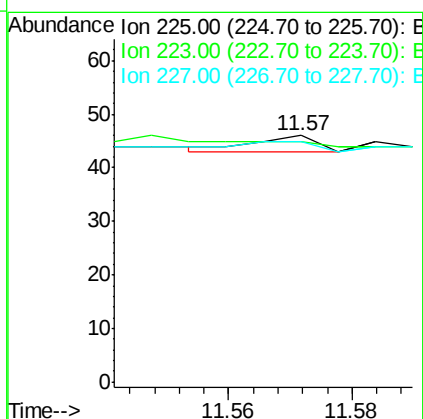
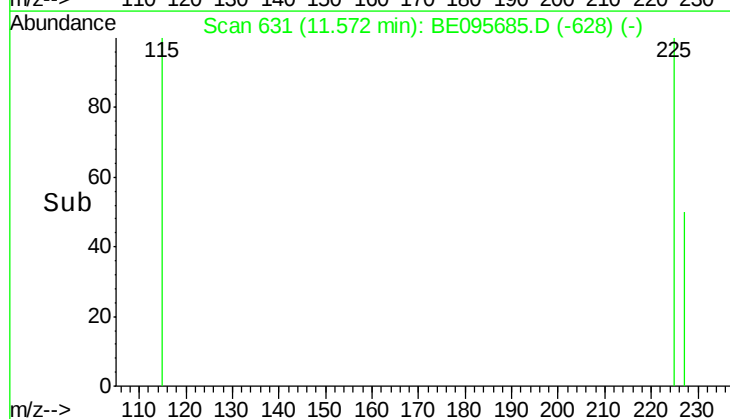
Instrument :
BNA_E
ClientSampleId :
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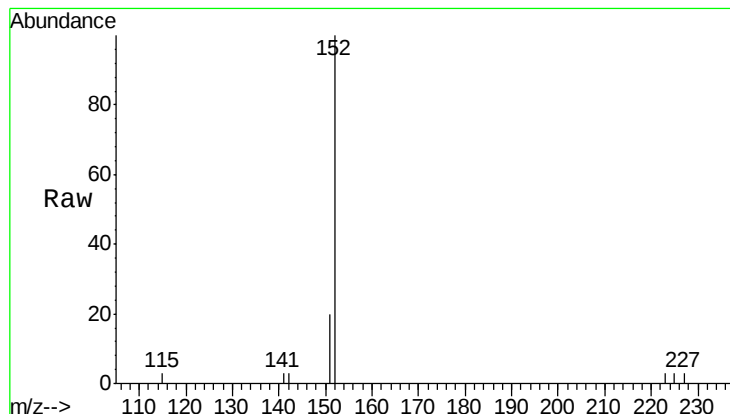
Tot Ion:128 Resp: 36
Ion Ratio Lower Upper
128 100
129 24.2 2.6 3.8#
127 23.2 2.8 4.2#



#10
Hexachlorobutadiene
Concen: 0.001 ng
RT: 11.57 min Scan# 631
Delta R.T. 0.00 min
Lab File: BE095685.D
Acq: 23 Feb 2018 16:18

Tgt Ion:225 Resp: 2
Ion Ratio Lower Upper
225 100
223 0.0 53.0 79.6#
227 100.0 51.4 77.2#

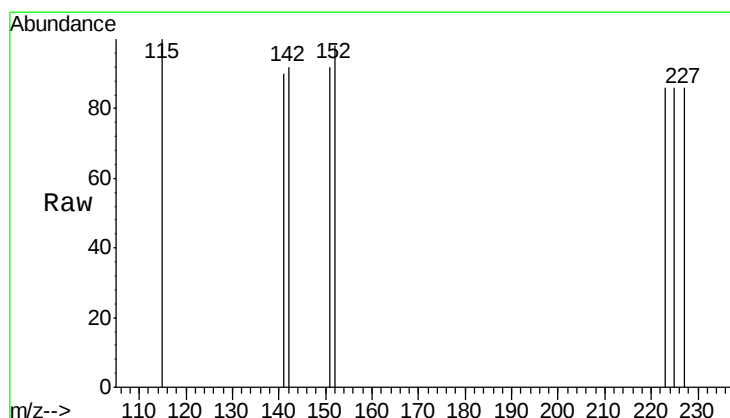
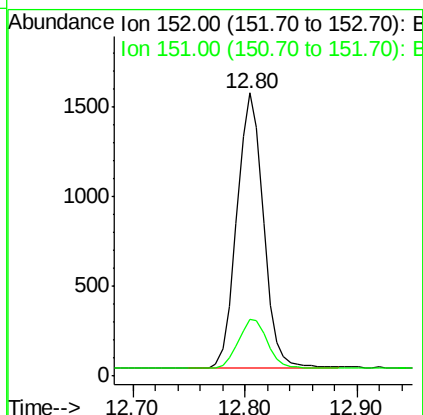
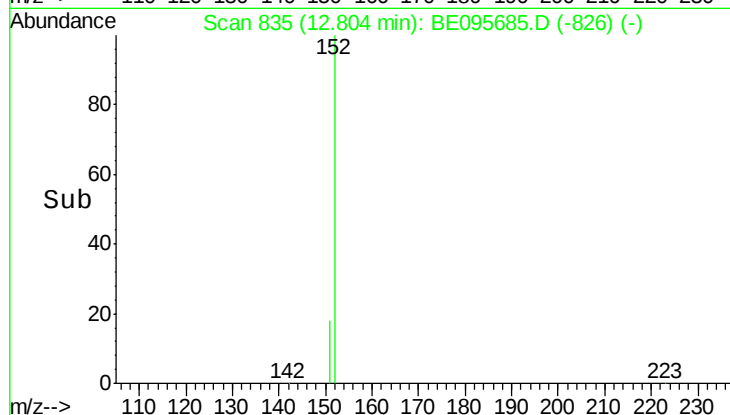




#11
 2-Methylnaphthalene-d10
 Concen: 0.349 ng
 RT: 12.80 min Scan# 835
 Delta R.T. 0.00 min
 Lab File: BE095685.D
 Acq: 23 Feb 2018 16:18

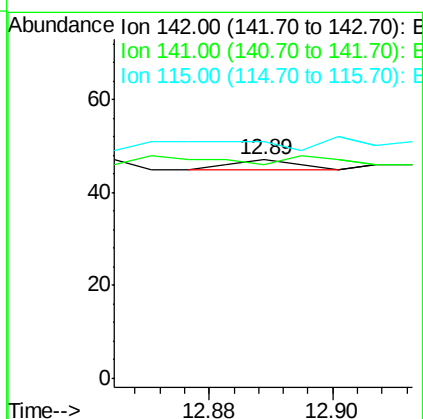
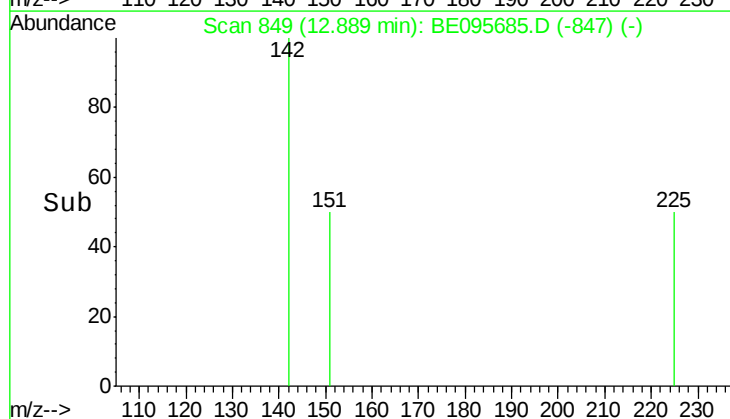
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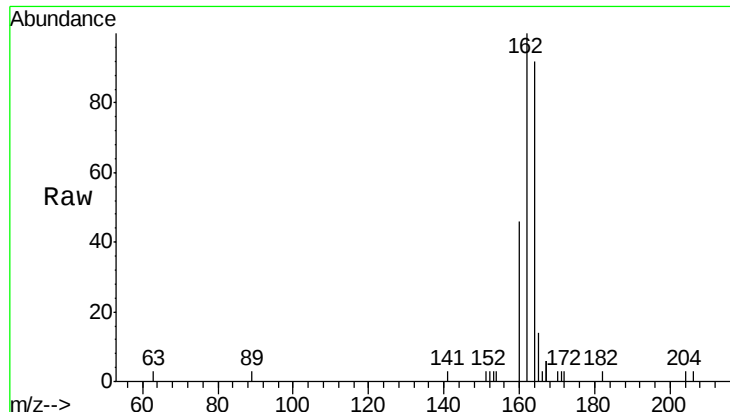
Tot Ion:152 Resp: 2503
 Ion Ratio Lower Upper
 152 100
 151 19.4 15.4 23.0



#12
 2-Methylnaphthalene
 Concen: 0.000 ng
 RT: 12.89 min Scan# 849
 Delta R.T. 0.01 min
 Lab File: BE095685.D
 Acq: 23 Feb 2018 16:18

Tgt Ion:142 Resp: 1
 Ion Ratio Lower Upper
 142 100
 141 97.9 70.4 105.6
 115 108.5 31.7 47.5#

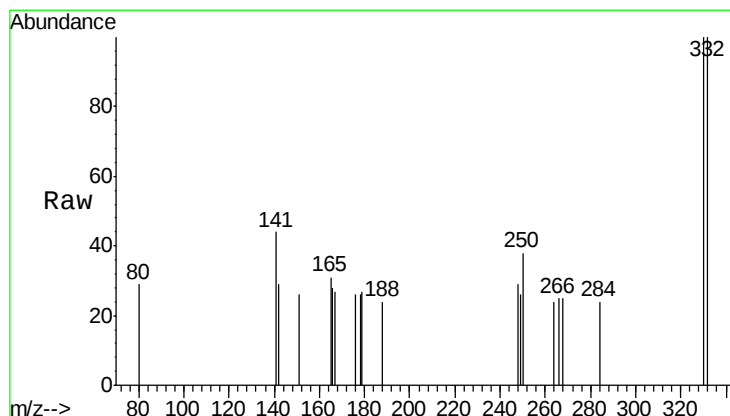
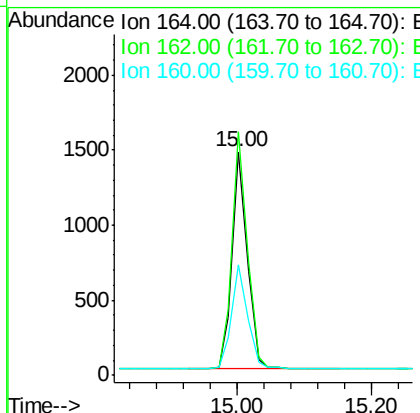
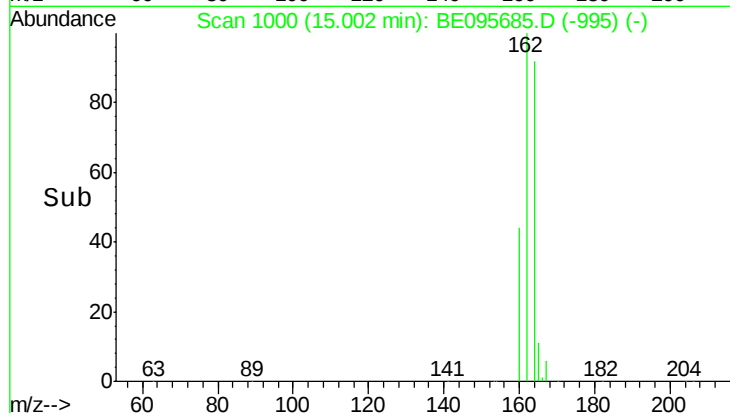




#13
 Acenaphthene-d10
 Concen: 0.400 ng
 RT: 15.00 min Scan# 1000
 Delta R.T. -0.00 min
 Lab File: BE095685.D
 Acq: 23 Feb 2018 16:18

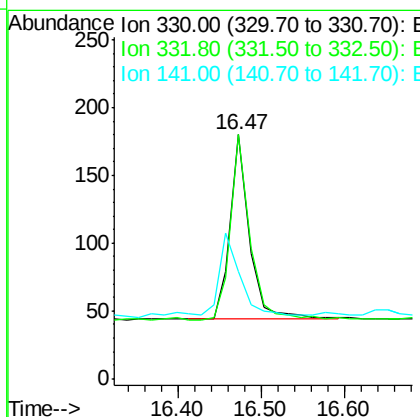
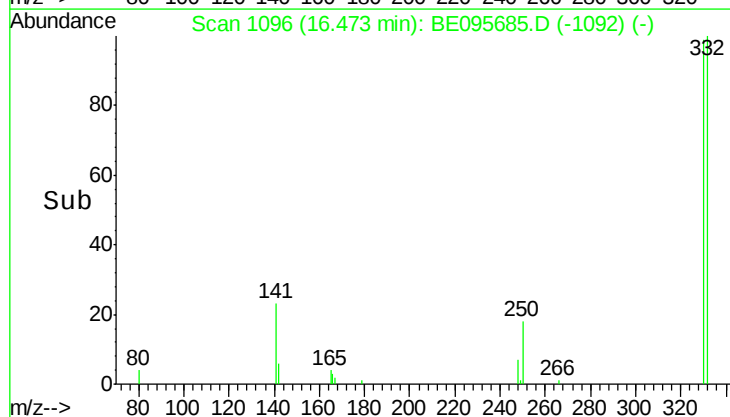
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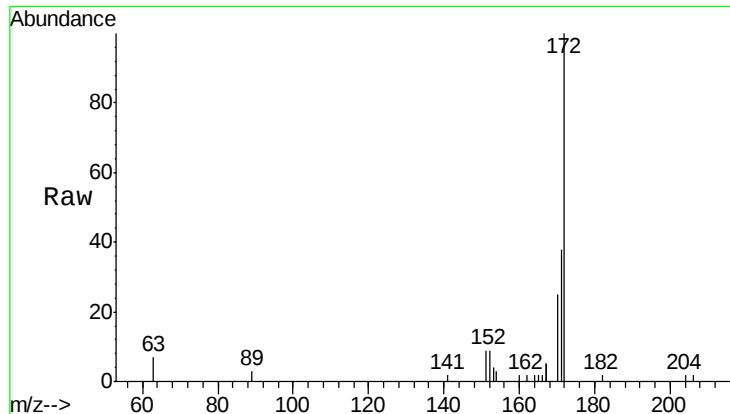
Tot Ion:164 Resp: 2249
 Ion Ratio Lower Upper
 164 100
 162 108.9 83.1 124.7
 160 49.6 37.1 55.7



#14
 2,4,6-Tribromophenol
 Concen: 0.318 ng
 RT: 16.47 min Scan# 1096
 Delta R.T. -0.00 min
 Lab File: BE095685.D
 Acq: 23 Feb 2018 16:18

Tgt Ion:330 Resp: 218
 Ion Ratio Lower Upper
 330 100
 332 104.1 152.7 229.1#
 141 46.3 33.7 50.5

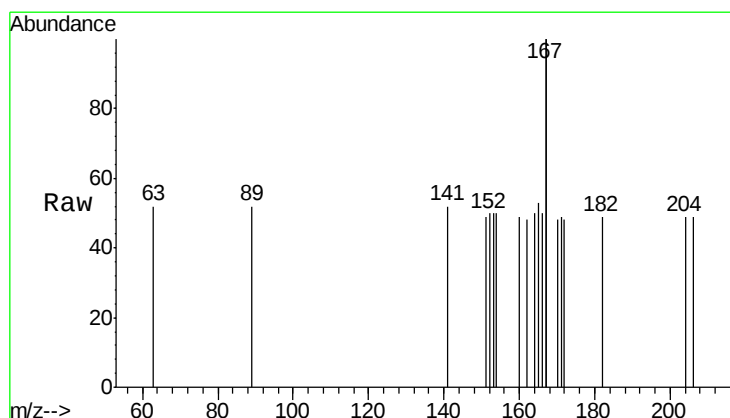
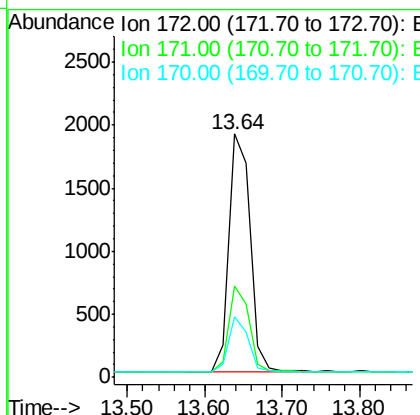
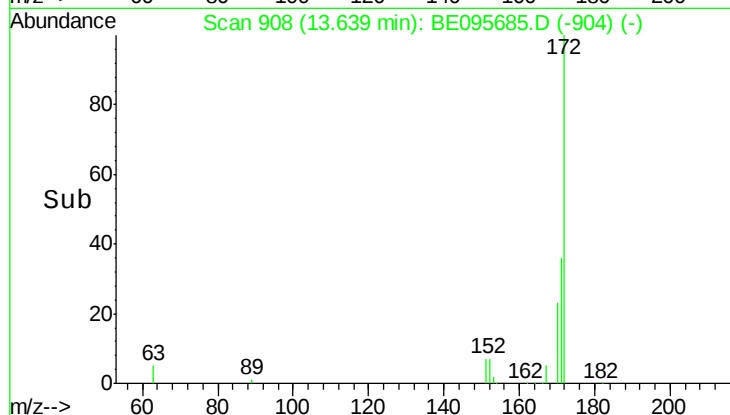




#15
2-Fluorobiphenyl
Concen: 0.356 ng
RT: 13.64 min Scan# 908
Delta R.T. -0.00 min
Lab File: BE095685.D
Acq: 23 Feb 2018 16:18

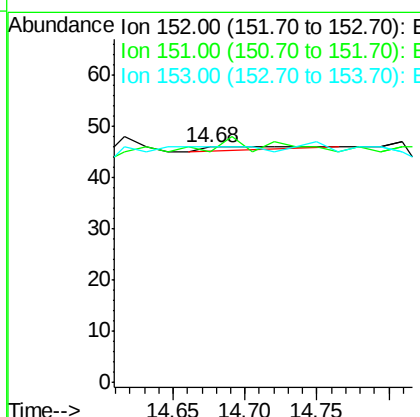
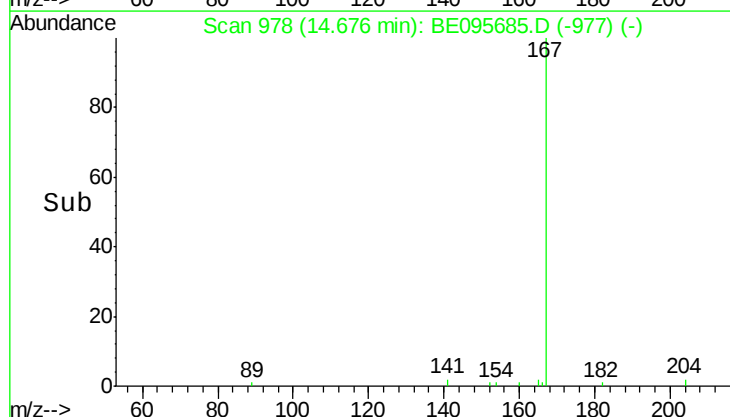
Instrument :
BNA_E
ClientSampleId :
PB106752BL

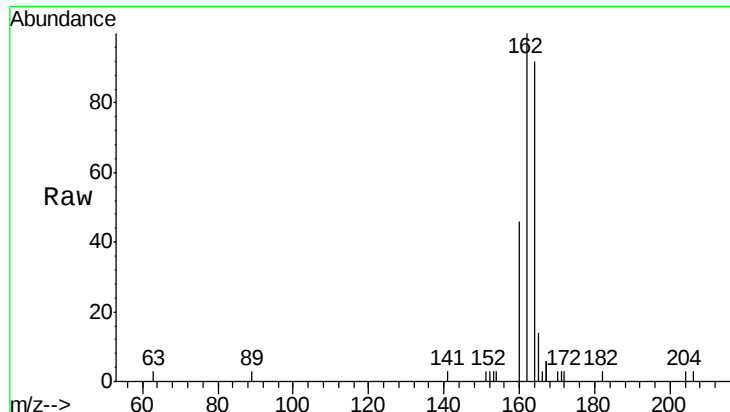
Tot Ion:172 Resp: 3575
Ion Ratio Lower Upper
172 100
171 37.5 29.9 44.9
170 25.1 21.8 32.8



#16
Acenaphthylene
Concen: 0.000 ng
RT: 14.68 min Scan# 978
Delta R.T. -0.06 min
Lab File: BE095685.D
Acq: 23 Feb 2018 16:18

Tgt Ion:152 Resp: 4
Ion Ratio Lower Upper
152 100
151 100.0 15.7 23.5#
153 0.0 10.5 15.7#

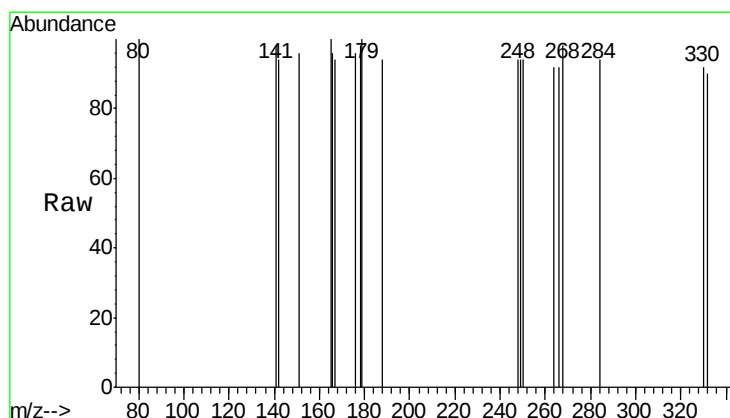
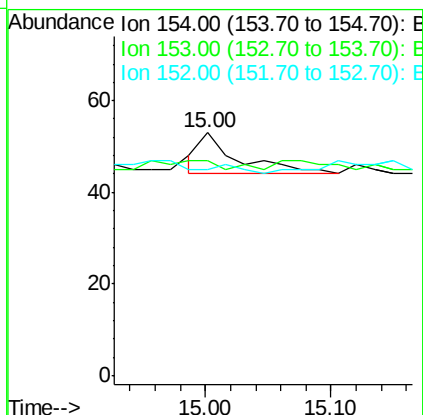
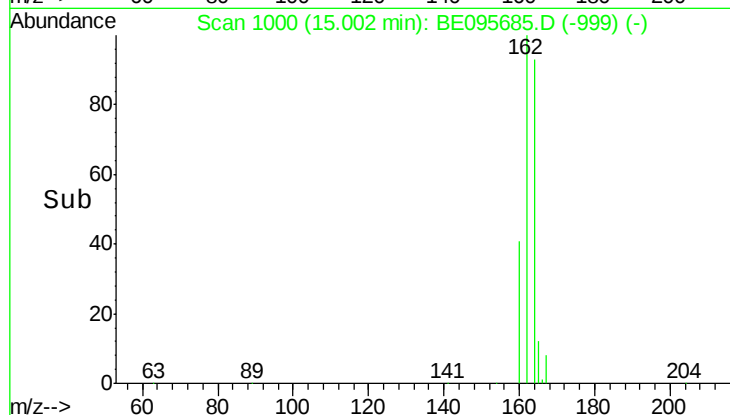




#17
 Acenaphthene
 Concen: 0.003 ng
 RT: 15.00 min Scan# 1000
 Delta R.T. -0.06 min
 Lab File: BE095685.D
 Acq: 23 Feb 2018 16:18

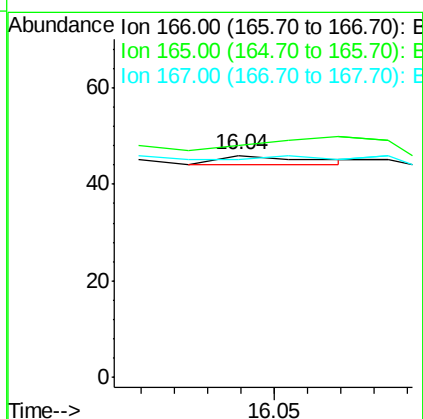
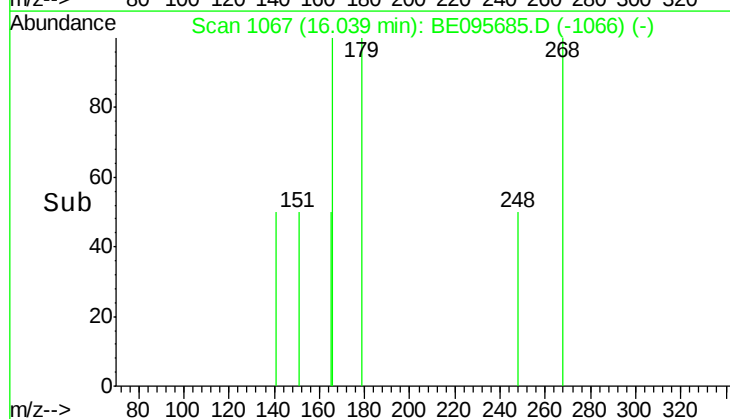
Instrument :
 BNA_E
 ClientSampleId :
 PB106752BL

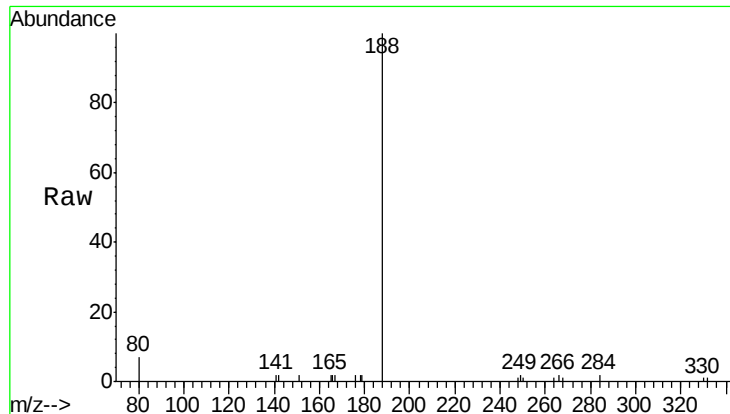
Tot Ion:154 Resp: 20
 Ion Ratio Lower Upper
 154 100
 153 0.0 89.2 133.8#
 152 0.0 42.0 63.0#



#18
 Fluorene
 Concen: 0.000 ng
 RT: 16.04 min Scan# 1067
 Delta R.T. 0.01 min
 Lab File: BE095685.D
 Acq: 23 Feb 2018 16:18

Tgt Ion:166 Resp: 4
 Ion Ratio Lower Upper
 166 100
 165 0.0 77.8 116.6#
 167 125.0 42.4 63.6#





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.71 min Scan# 1179

Delta R.T. 0.01 min

Lab File: BE095685.D

Acq: 23 Feb 2018 16:18

Instrument :

BNA_E

ClientSampleId :

PB106752BL

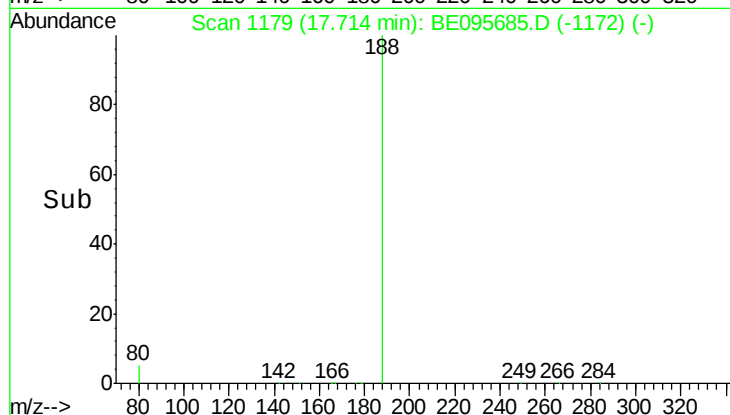
Tot Ion:188 Resp: 5367

Ion Ratio Lower Upper

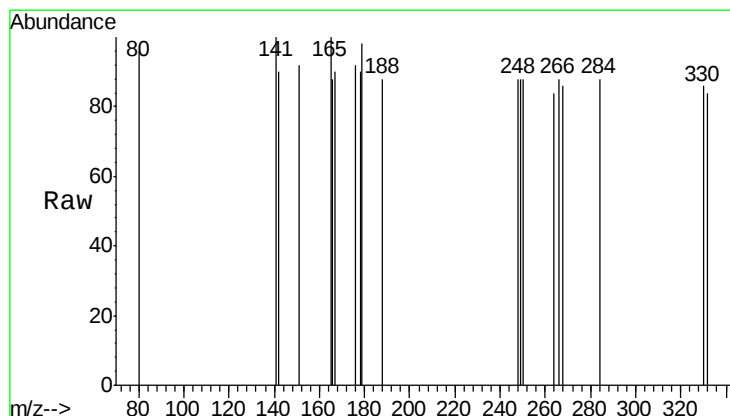
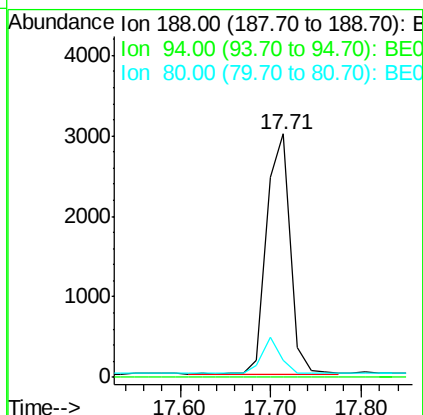
188 100

94 0.0 3.9 5.9#

80 6.9 3.6 5.4#



Scan 1179 (17.714 min): BE095685.D (-1172) (-)



#20

4-Bromophenyl-phenylether

Concen: 0.001 ng

RT: 16.88 min Scan# 1123

Delta R.T. -0.02 min

Lab File: BE095685.D

Acq: 23 Feb 2018 16:18

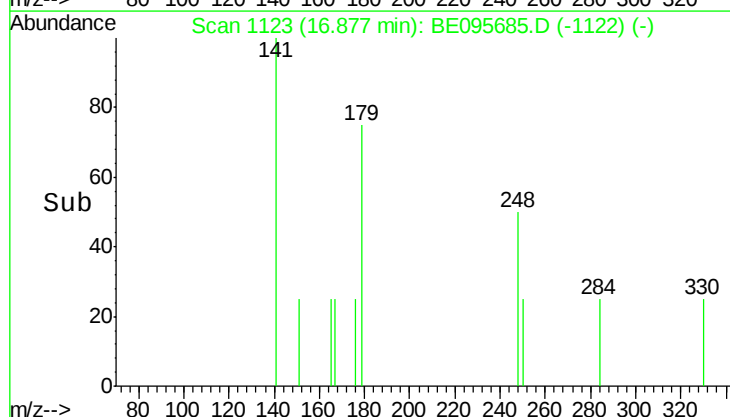
Tgt Ion:248 Resp: 4

Ion Ratio Lower Upper

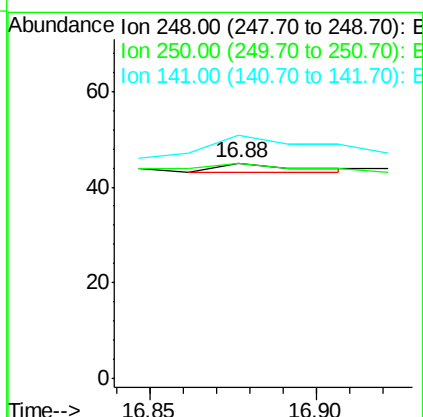
248 100

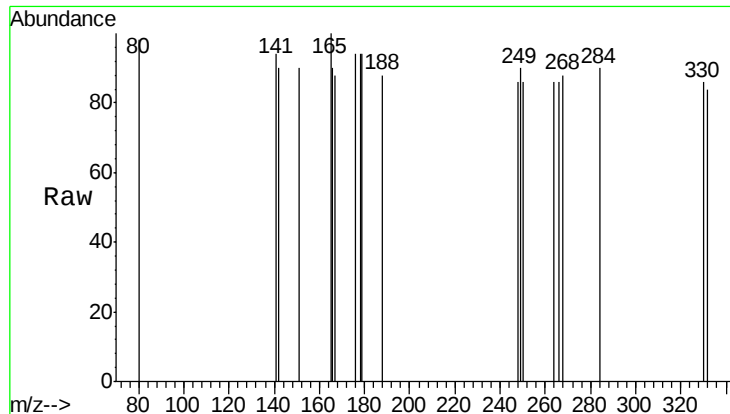
250 100.0 62.7 94.1#

141 113.3 48.2 72.2#



Scan 1123 (16.877 min): BE095685.D (-1122) (-)





#21

Hexachlorobenzene

Concen: 0.002 ng

RT: 17.03 min Scan# 1133

Delta R.T. -0.00 min

Lab File: BE095685.D

Acq: 23 Feb 2018 16:18

Instrument :

BNA_E

ClientSampleId :

PB106752BL

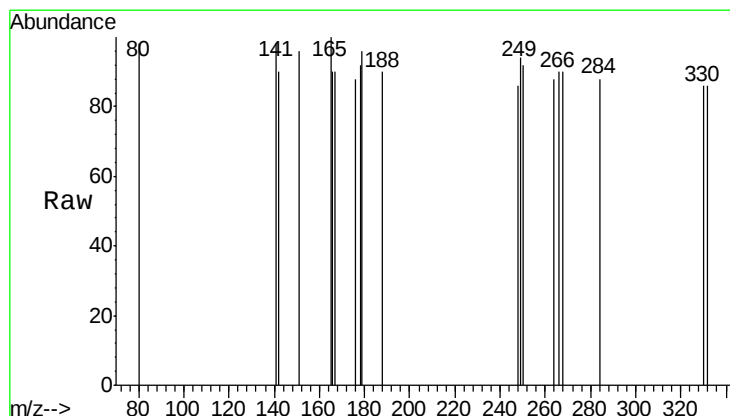
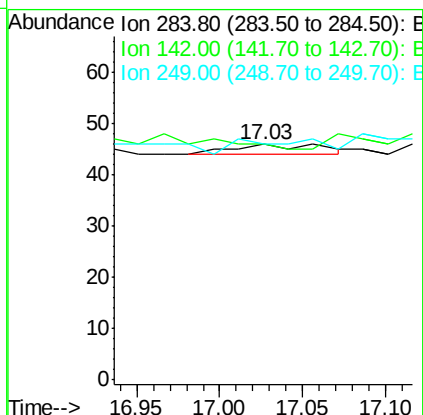
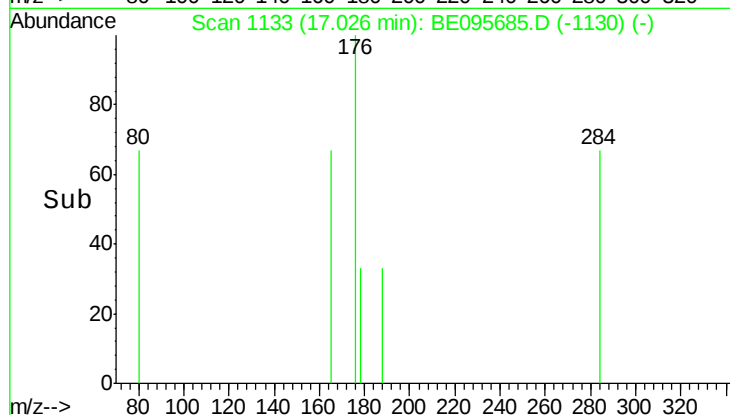
Tot Ion:284 Resp: 7

Ion Ratio Lower Upper

284 100

142 0.0 22.1 33.1#

249 85.7 34.8 52.2#



#22

Pentachlorophenol

Concen: 0.183 ng

RT: 17.42 min Scan# 1159

Delta R.T. 0.05 min

Lab File: BE095685.D

Acq: 23 Feb 2018 16:18

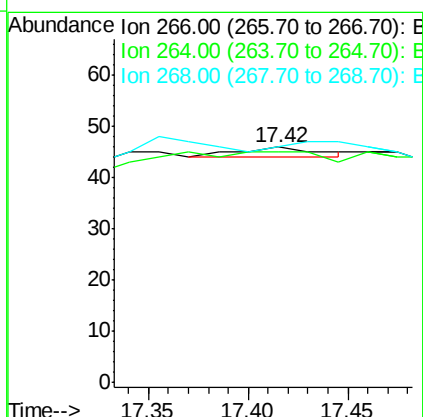
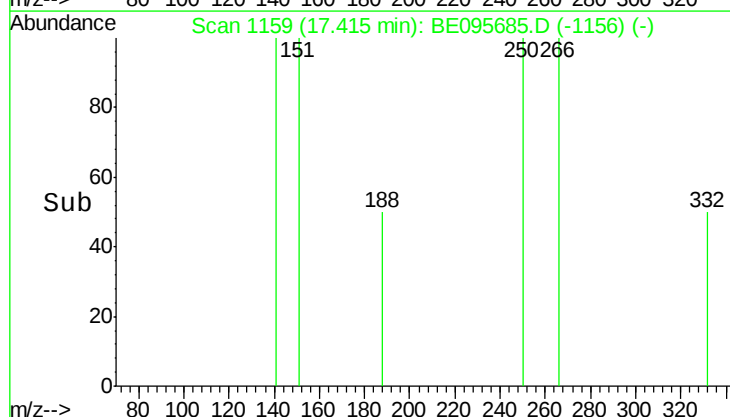
Tgt Ion:266 Resp: 5

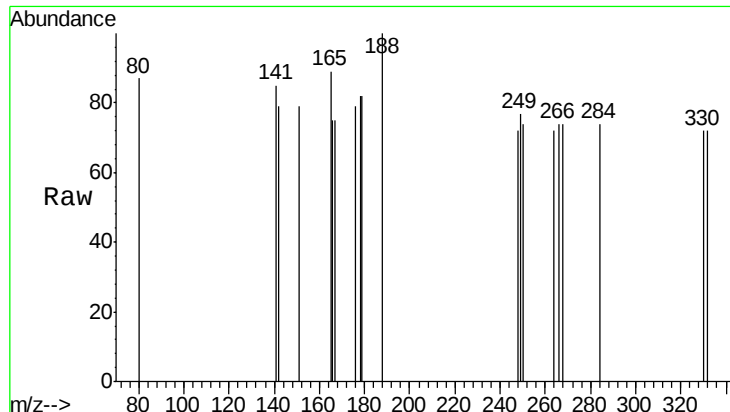
Ion Ratio Lower Upper

266 100

264 97.8 72.5 108.7

268 100.0 73.8 110.6

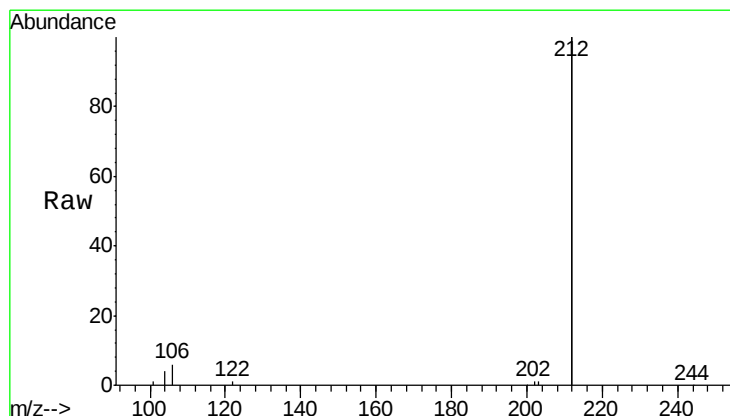
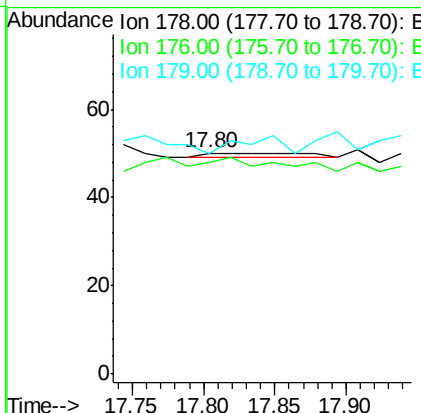
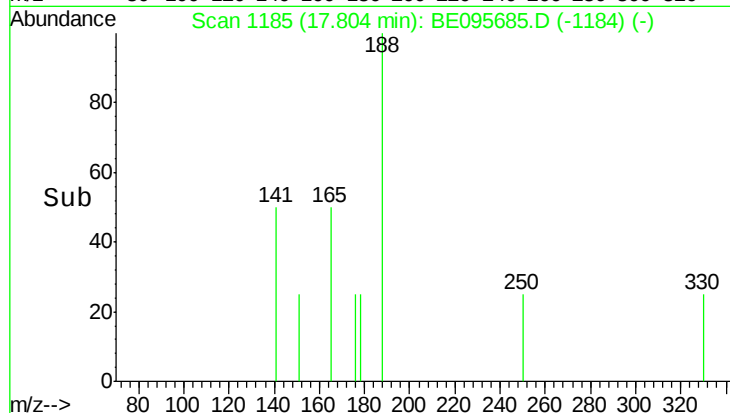




#24
 Anthracene
 Concen: 0.000 ng
 RT: 17.80 min Scan# 1185
 Delta R.T. -0.03 min
 Lab File: BE095685.D
 Acq: 23 Feb 2018 16:18

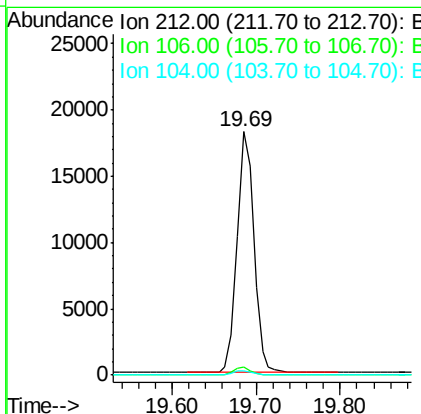
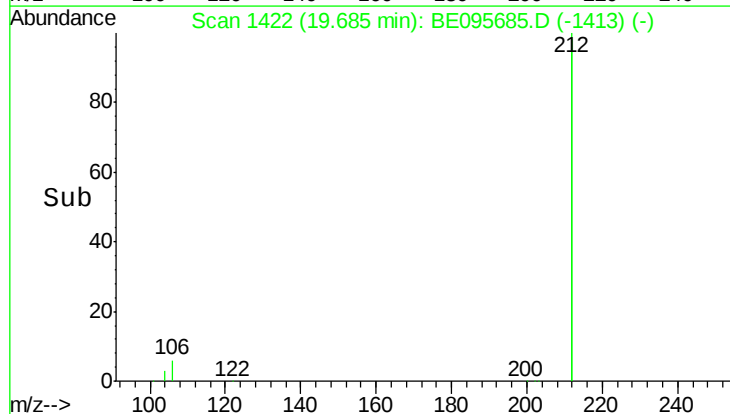
Instrument :
 BNA_E
 ClientSampleId :
 PB106752BL

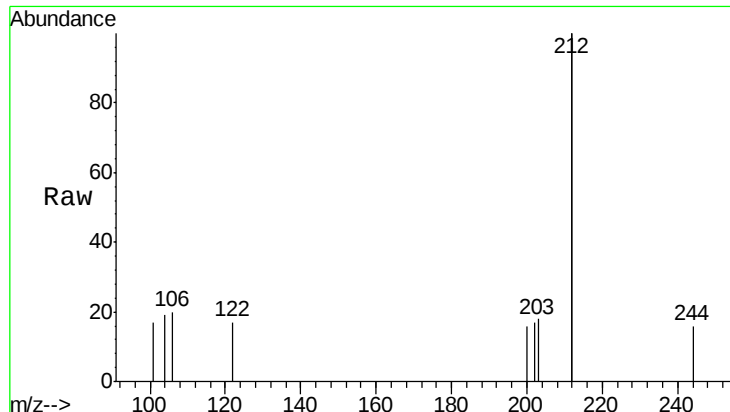
Tot Ion:178 Resp: 5
 Ion Ratio Lower Upper
 178 100
 176 0.0 12.8 19.2#
 179 0.0 13.0 19.6#



#25
 Fluoranthene-d10
 Concen: 0.358 ng
 RT: 19.69 min Scan# 1422
 Delta R.T. -0.00 min
 Lab File: BE095685.D
 Acq: 23 Feb 2018 16:18

Tgt Ion:212 Resp: 25069
 Ion Ratio Lower Upper
 212 100
 106 2.8 2.8 4.2
 104 1.7 1.6 2.4





#26

Fluoranthene

Concen: 0.000 ng

RT: 19.71 min Scan# 1426

Delta R.T. -0.00 min

Lab File: BE095685.D

Acq: 23 Feb 2018 16:18

Instrument :

BNA_E

ClientSampleId :

PB106752BL

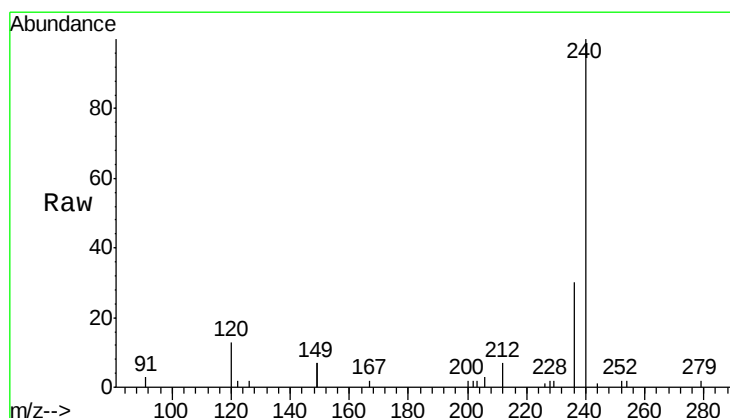
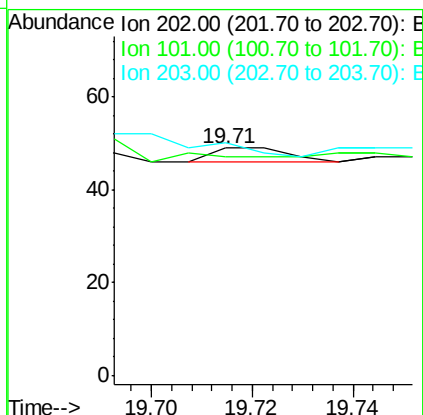
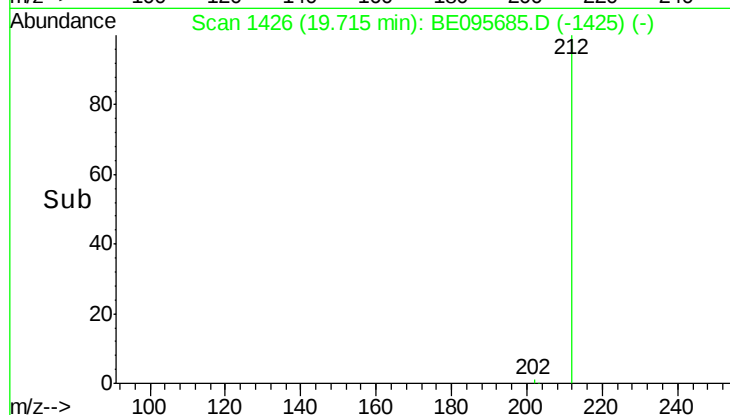
Tot Ion:202 Resp: 3

Ion Ratio Lower Upper

202 100

101 0.0 9.8 14.8#

203 0.0 13.7 20.5#



#27

Chrysene-d12

Concen: 0.400 ng

RT: 21.79 min Scan# 1577

Delta R.T. -0.00 min

Lab File: BE095685.D

Acq: 23 Feb 2018 16:18

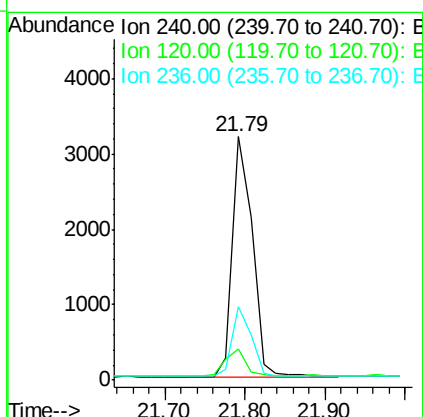
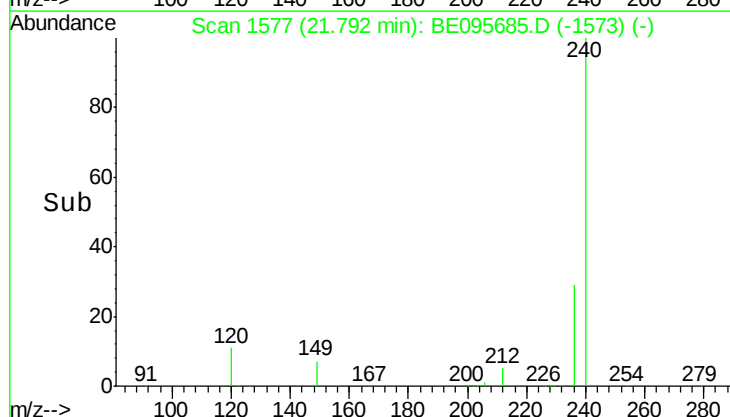
Tgt Ion:240 Resp: 5483

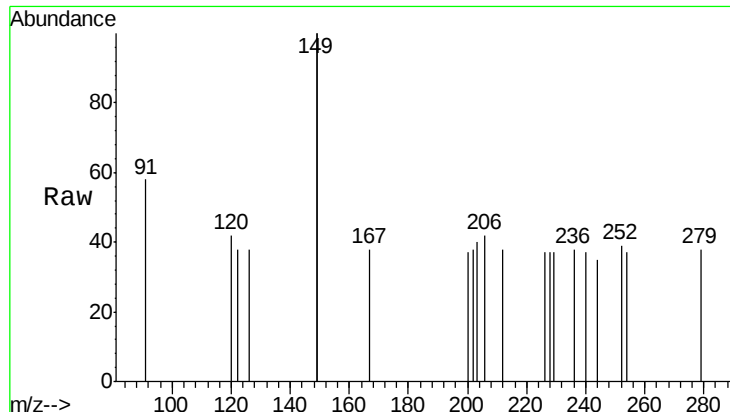
Ion Ratio Lower Upper

240 100

120 12.5 5.5 8.3#

236 30.3 20.7 31.1

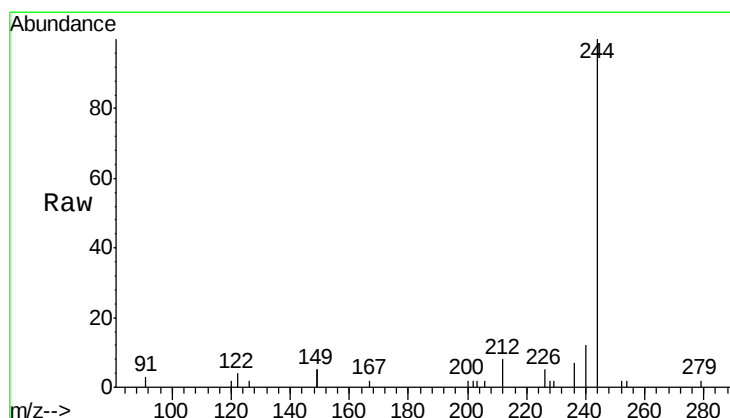
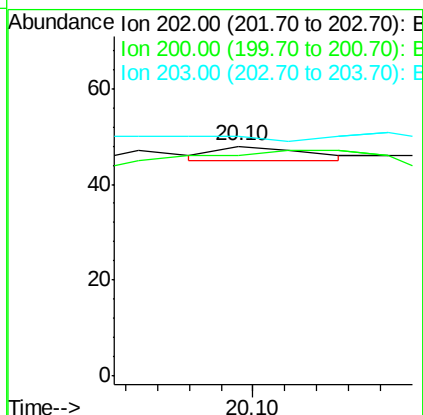
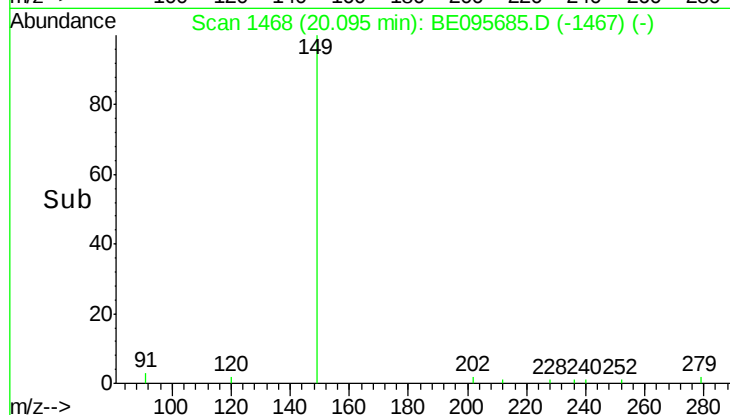




#28
Pvrene
Concen: 0.000 ng
RT: 20.10 min Scan# 1468
Delta R.T. 0.03 min
Lab File: BE095685.D
Acq: 23 Feb 2018 16:18

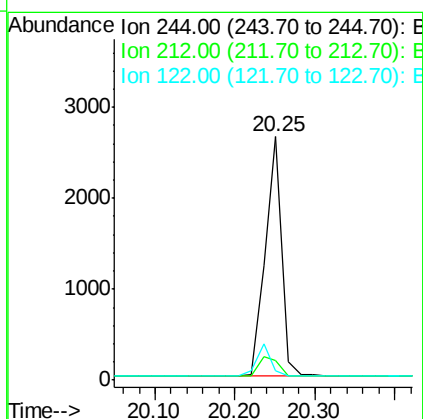
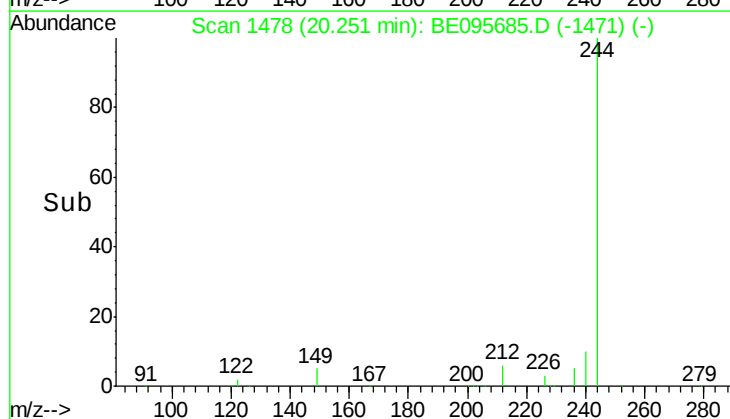
Instrument :
BNA_E
ClientSampleId :
PB106752BL

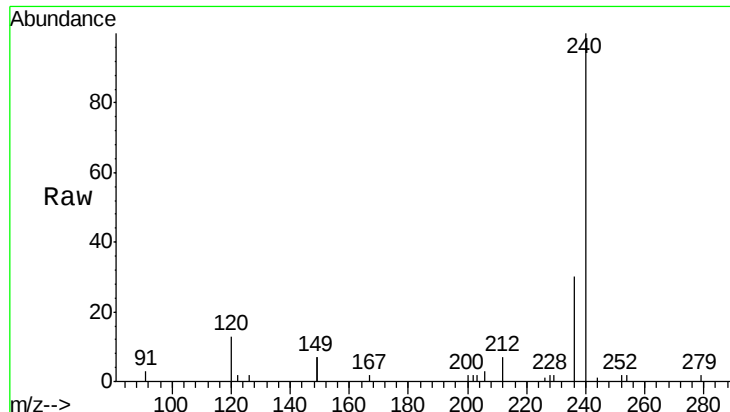
Tot Ion:202 Resp: 6
Ion Ratio Lower Upper
202 100
200 116.7 16.6 25.0#
203 0.0 13.8 20.8#



#29
Terphenyl-d14
Concen: 0.349 ng
RT: 20.25 min Scan# 1478
Delta R.T. -0.00 min
Lab File: BE095685.D
Acq: 23 Feb 2018 16:18

Tgt Ion:244 Resp: 3810
Ion Ratio Lower Upper
244 100
212 7.9 25.4 38.0#
122 3.9 8.1 12.1#





#30

Benzo(a)anthracene

Concen: 0.003 ng

RT: 21.79 min Scan# 1577

Delta R.T. 0.02 min

Lab File: BE095685.D

Acq: 23 Feb 2018 16:18

Instrument :

BNA_E

ClientSampleId :

PB106752BL

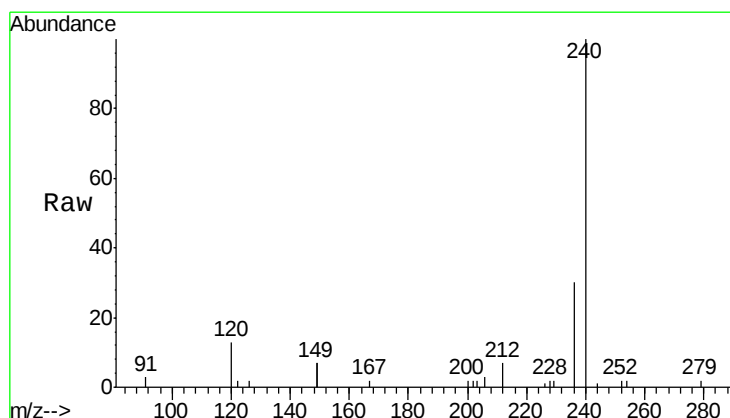
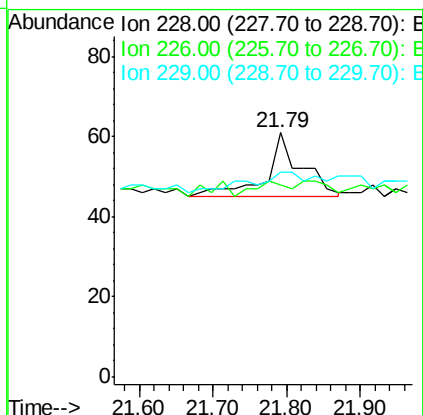
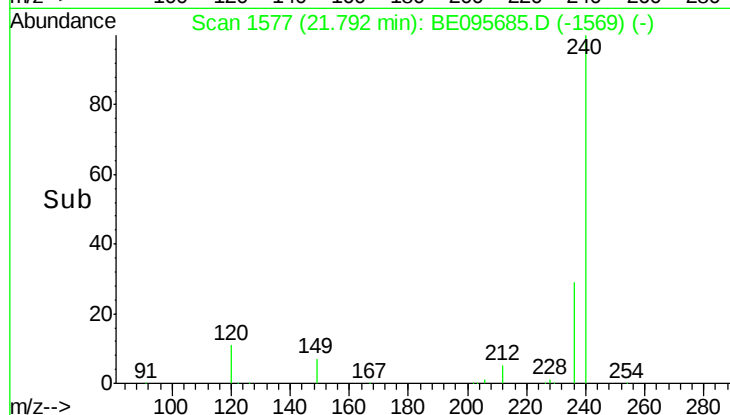
Tot Ion:228 Resp: 53

Ion Ratio Lower Upper

228 100

226 78.7 24.0 36.0#

229 83.6 16.0 24.0#



#31

Chrysene

Concen: 0.002 ng

RT: 21.79 min Scan# 1577

Delta R.T. -0.05 min

Lab File: BE095685.D

Acq: 23 Feb 2018 16:18

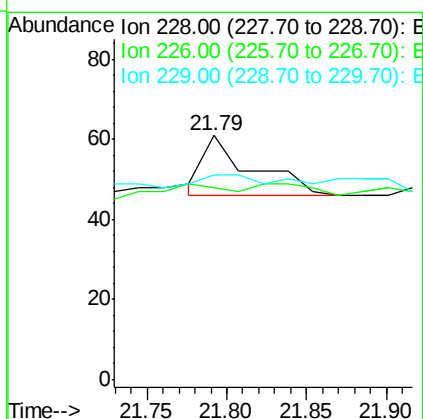
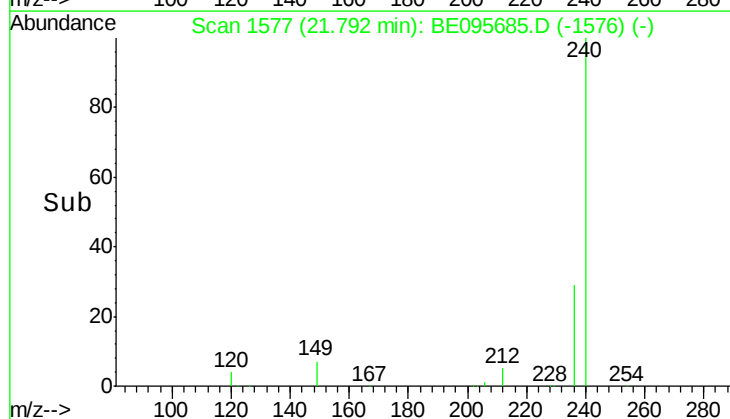
Tgt Ion:228 Resp: 32

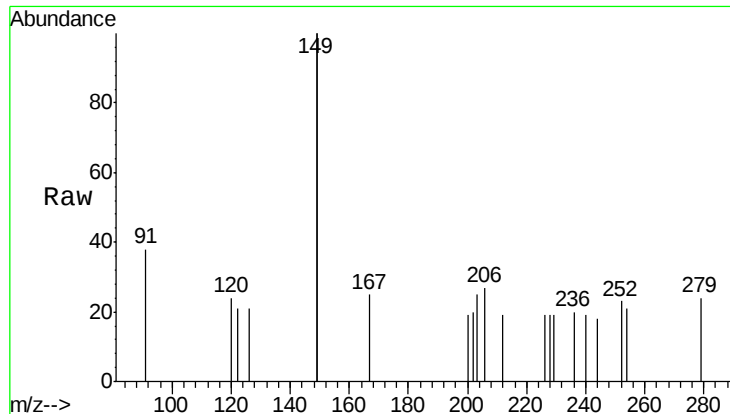
Ion Ratio Lower Upper

228 100

226 78.7 24.0 36.0#

229 83.6 16.0 24.0#

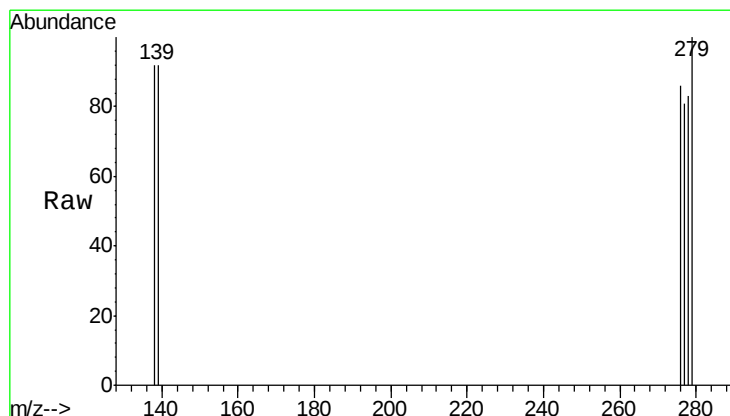
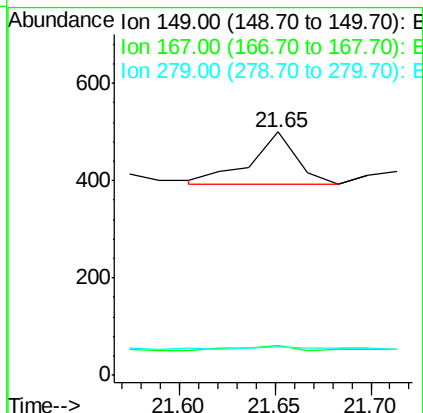
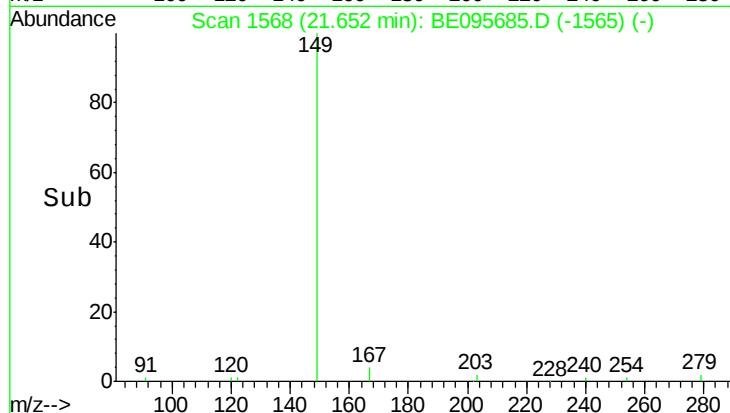




#32
 Bis(2-ethylhexyl)phthalate
 Concen: 0.006 ng
 RT: 21.65 min Scan# 1568
 Delta R.T. -0.00 min
 Lab File: BE095685.D
 Acq: 23 Feb 2018 16:18

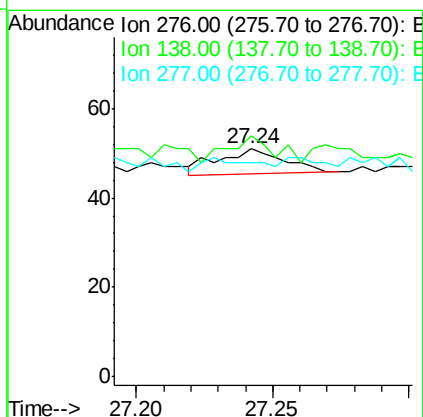
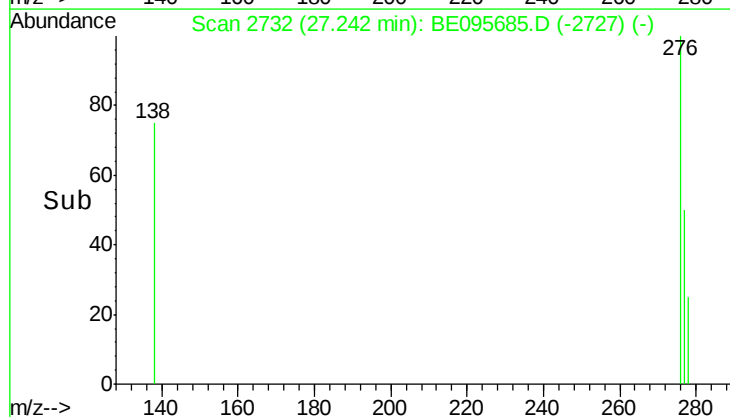
Instrument :
 BNA_E
 ClientSampleId :
 PB106752BL

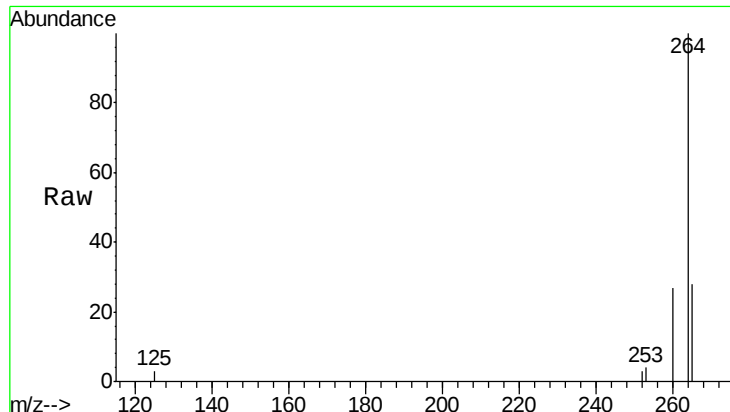
Tot Ion:149 Resp: 181
 Ion Ratio Lower Upper
 149 100
 167 9.9 5.4 8.0#
 279 11.6 0.7 1.1#



#33
 Indeno(1,2,3-cd)pyrene
 Concen: 0.001 ng
 RT: 27.24 min Scan# 2732
 Delta R.T. 0.01 min
 Lab File: BE095685.D
 Acq: 23 Feb 2018 16:18

Tgt Ion:276 Resp: 9
 Ion Ratio Lower Upper
 276 100
 138 77.8 22.5 33.7#
 277 22.2 19.9 29.9

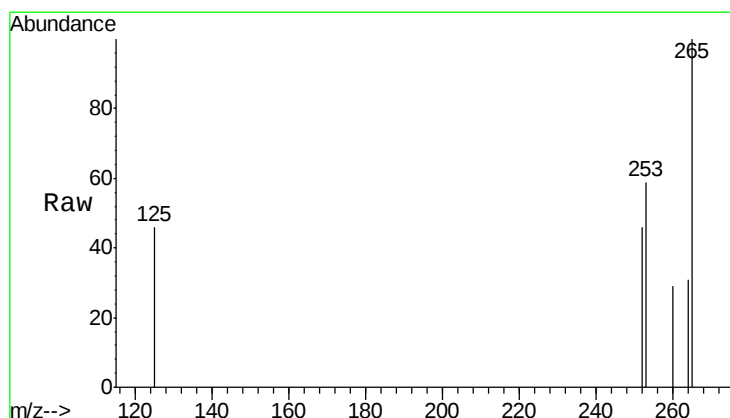
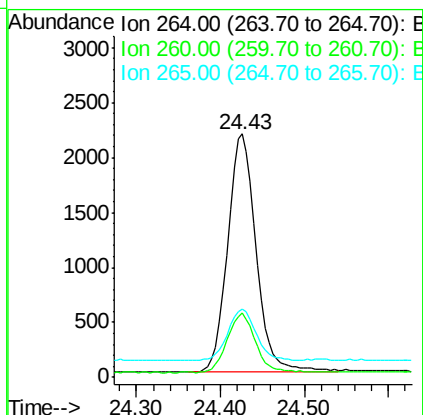
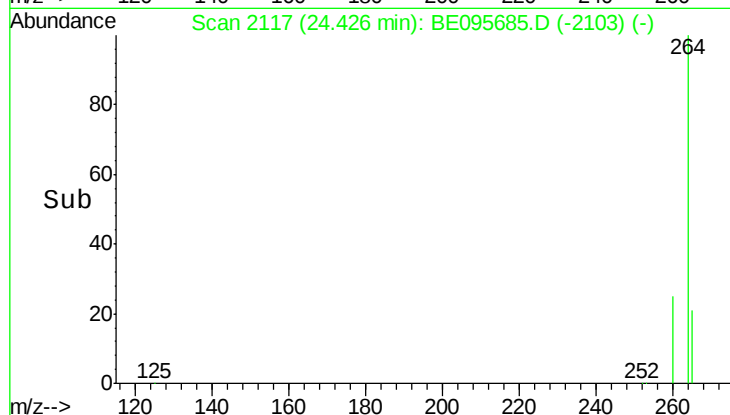




#34
 Pervlene-d12
 Concen: 0.400 ng
 RT: 24.43 min Scan# 2117
 Delta R.T. 0.00 min
 Lab File: BE095685.D
 Acq: 23 Feb 2018 16:18

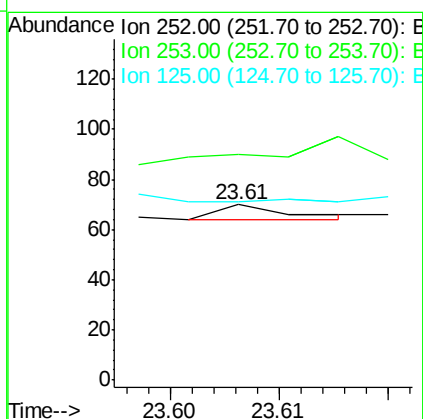
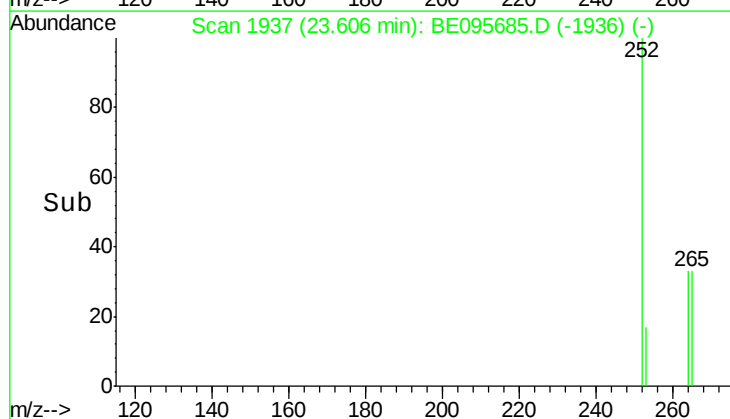
Instrument :
 BNA_E
 ClientSampleId :
 PB106752BL

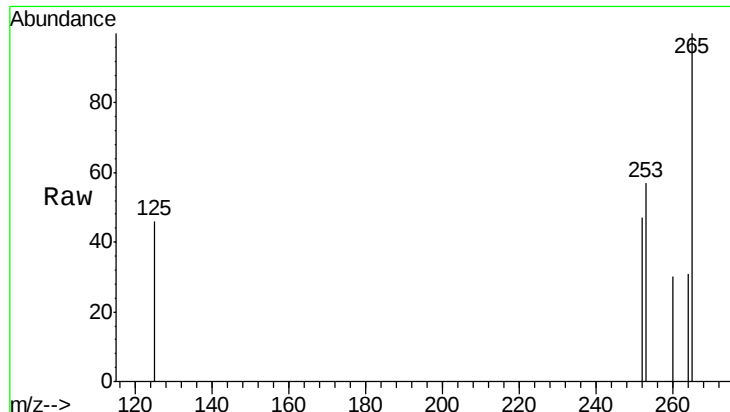
Tot Ion:264	Resp:	5104
Ion	Ratio	Lower Upper
264	100	
260	26.6	20.5 30.7
265	27.8	22.8 34.2



#35
 Benzo(b)fluoranthene
 Concen: 0.000 ng
 RT: 23.61 min Scan# 1937
 Delta R.T. -0.00 min
 Lab File: BE095685.D
 Acq: 23 Feb 2018 16:18

Tgt Ion:252	Resp:	3
Ion	Ratio	Lower Upper
252	100	
253	128.6	20.0 30.0#
125	101.4	16.0 24.0#

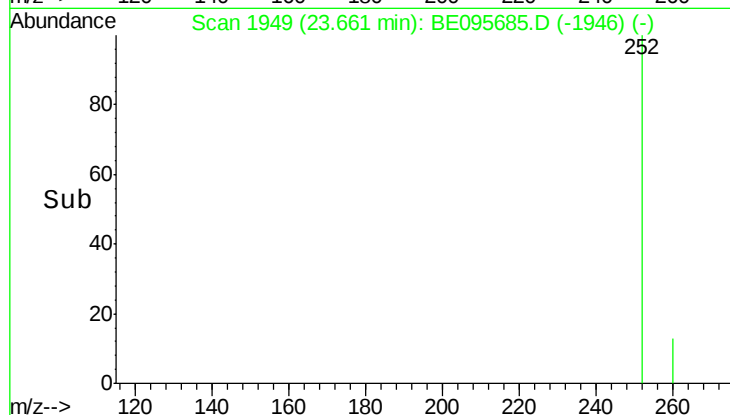




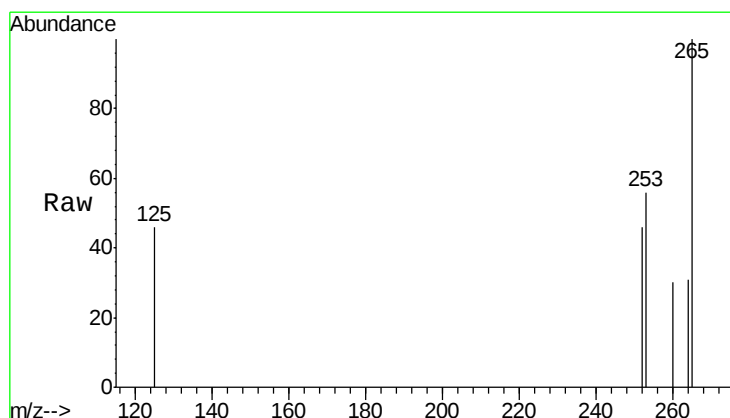
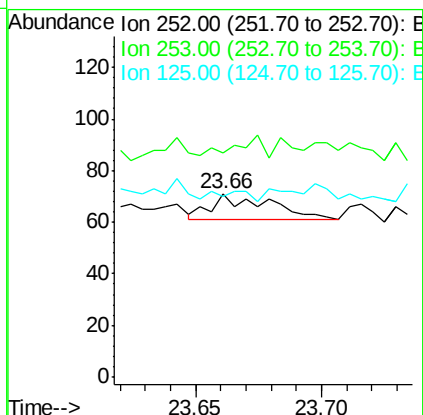
#36
Benzo(k)fluoranthene
Concen: 0.001 ng
RT: 23.66 min Scan# 1949
Delta R.T. -0.00 min
Lab File: BE095685.D
Acq: 23 Feb 2018 16:18

Instrument :
BNA_E
ClientSampleId :
PB106752BL

Tot Ion:252 Resp: 16
Ion Ratio Lower Upper
252 100
253 122.5 16.0 24.0#
125 98.6 8.0 12.0#

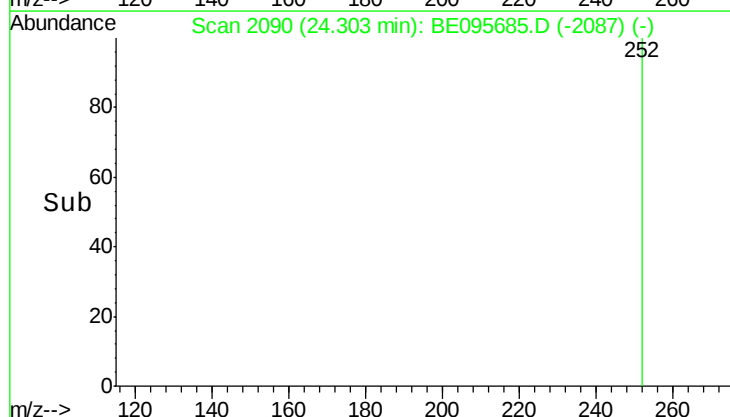


Scan 1949 (23.661 min): BE095685.D (-1946) (-)

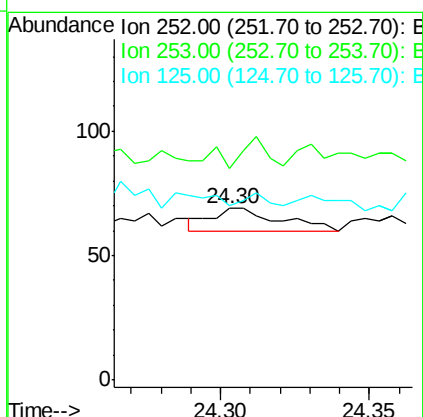


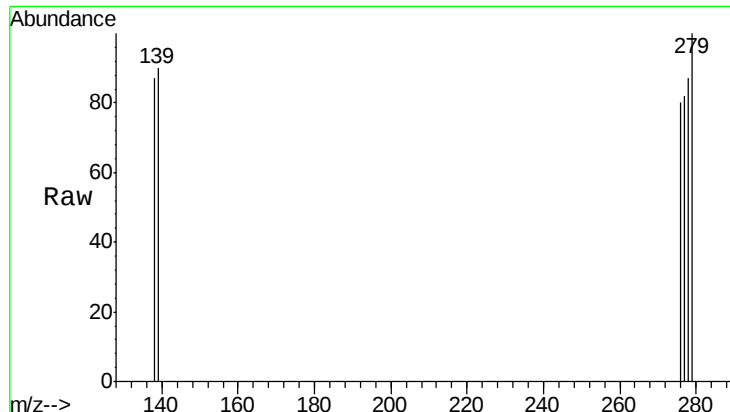
#37
Benzo(a)pyrene
Concen: 0.001 ng
RT: 24.30 min Scan# 2090
Delta R.T. -0.00 min
Lab File: BE095685.D
Acq: 23 Feb 2018 16:18

Tgt Ion:252 Resp: 14
Ion Ratio Lower Upper
252 100
253 123.2 16.0 24.0#
125 101.4 12.0 18.0#



Scan 2090 (24.303 min): BE095685.D (-2087) (-)

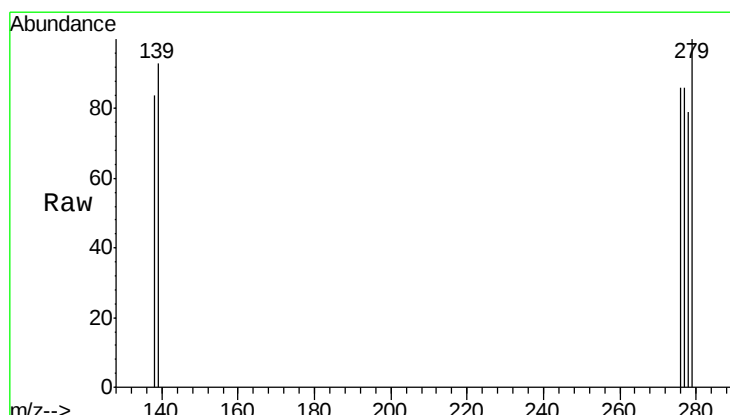
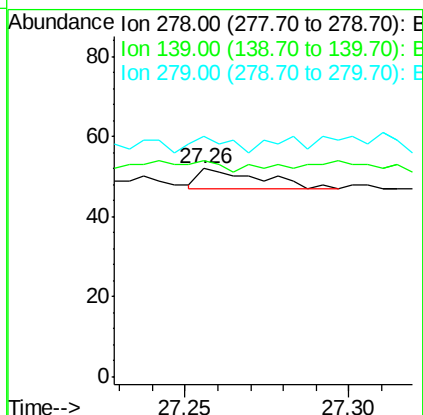
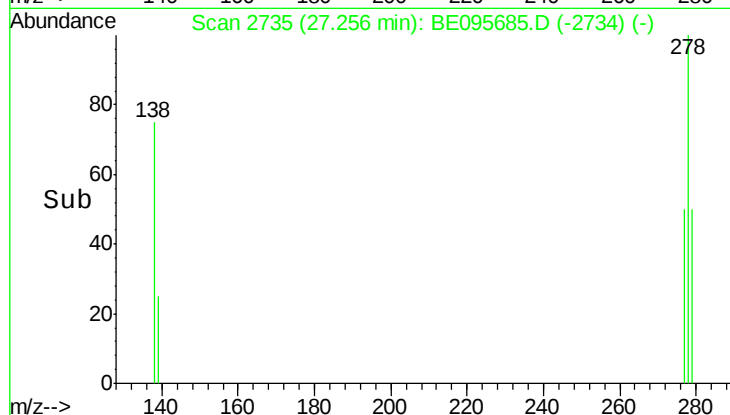




#38
 Dibenzo(a,h)anthracene
 Concen: 0.000 ng
 RT: 27.26 min Scan# 2735
 Delta R.T. 0.01 min
 Lab File: BE095685.D
 Acq: 23 Feb 2018 16:18

Instrument :
 BNA_E
 ClientSampleId :
 PB106752BL

Tot Ion:278 Resp: 6
 Ion Ratio Lower Upper
 278 100
 139 103.8 16.0 24.0#
 279 115.4 20.0 30.0#



#39
 Benzo(g,h,i)perylene
 Concen: 0.000 ng
 RT: 28.09 min Scan# 2917
 Delta R.T. -0.01 min
 Lab File: BE095685.D
 Acq: 23 Feb 2018 16:18

Tgt Ion:276 Resp: 4
 Ion Ratio Lower Upper
 276 100
 277 100.0 16.0 24.0#
 138 97.9 20.0 30.0#

