

Data Path : Z:\HPCHEM1\BNA E\DATA\BE102315\
 Data File : BE091036.D
 Acq On : 23 Oct 2015 16:31
 Operator : UM/NP
 Sample : PB86253BL
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Oct 23 23:45:19 2015
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE092815.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Oct 07 17:11:43 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.92	152	17361	5.00	ng	-0.04
7) Naphthalene-d8	9.59	136	77064	5.00	ng	-0.05
13) Acenaphthene-d10	13.42	164	40433	5.00	ng	-0.04
19) Phenanthrene-d10	16.13	188	100845	5.00	ng	-0.05
26) Chrysene-d12	20.29	240	130646	5.00	ng	-0.05
35) Perylene-d12	22.19	264	134909	5.00	ng	-0.06

System Monitoring Compounds						
4) 2-Fluorophenol	4.93	112	32357	9.18	ng	-0.07
5) Phenol-d6	6.56	99	42828	9.64	ng	-0.07
8) Nitrobenzene-d5	8.18	82	24042	4.74	ng	-0.05
14) 2,4,6-Tribromophenol	14.95	330	8313	5.98	ng	-0.04
15) 2-Fluorobiphenyl	12.05	172	42515	3.88	ng	-0.05
29) Terphenyl-d14	18.69	244	68922	4.28	ng	-0.05

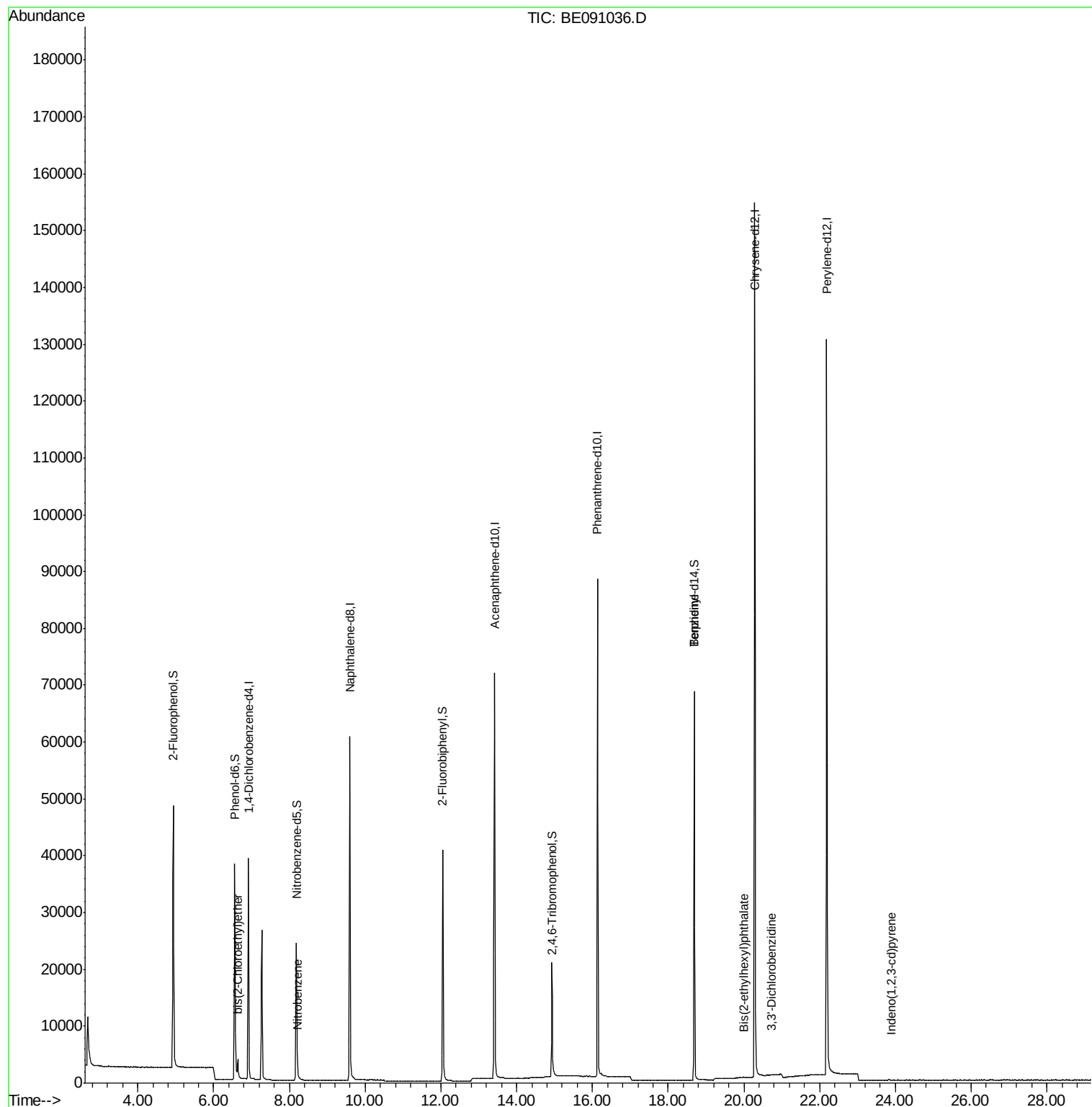
Target Compounds				Qvalue		
2) 1,4-Dioxane	3.24	88	3	Below Cal	#	16
3) n-Nitrosodimethylamine	3.71	42	27	Below Cal	#	28
6) bis(2-Chloroethyl)ether	6.64	93	71	0.06	ng	# 1
9) Nitrobenzene	8.24	77	16	0.29	ng	# 65
10) Naphthalene	9.58	128	23	Below Cal	#	1
11) Hexachlorobutadiene	9.93	225	6	Below Cal		90
21) Hexachlorobenzene	15.43	284	6	Below Cal	#	38
23) Phenanthrene	16.17	178	130	Below Cal	#	66
25) Fluoranthene	18.16	202	35	Below Cal	#	54
27) Benzidine	18.68	184	1422	0.77	ng	# 89
28) Pyrene	18.54	202	54	Below Cal	#	92
31) 3,3'-Dichlorobenzidine	20.74	252	83	0.04	ng	# 34
32) Chrysene	20.29	228	514	Below Cal	#	76
33) Bis(2-ethylhexyl)phthalate	20.00	149	466	0.10	ng	# 55
34) Indeno(1,2,3-cd)pyrene	23.89	276	5	0.11	ng	# 1
37) Benzo(k)fluoranthene	21.63	252	149	Below Cal	#	1

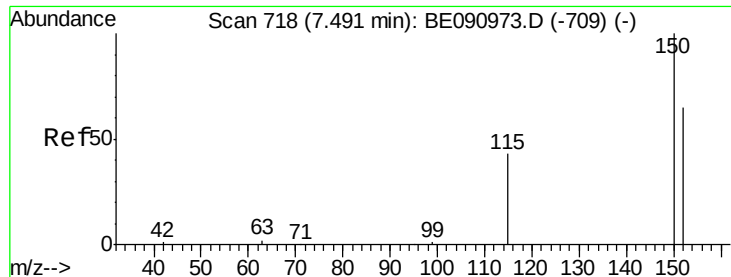
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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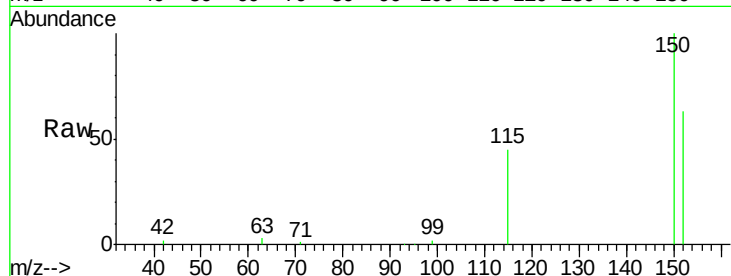


#1

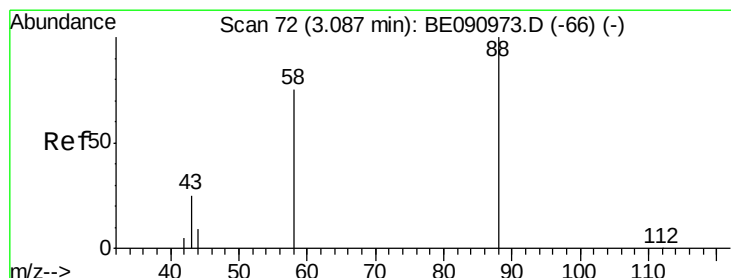
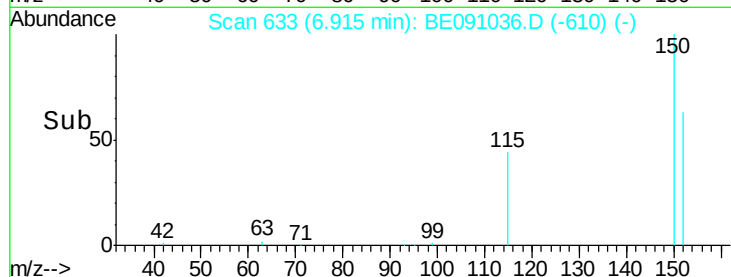
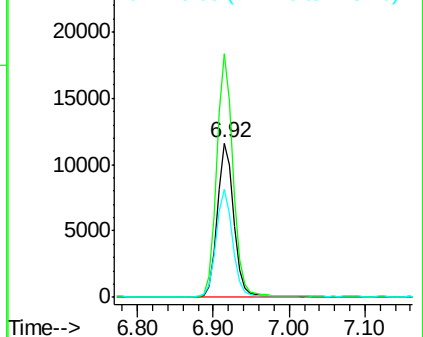
1,4-Dichlorobenzene-d4
Concen: 5.00 ng
RT: 6.92 min Scan# 633
Delta R.T. -0.04 min
Lab File: BE091036.D
Acq: 23 Oct 2015 16:31

Instrument :
BNA_E
ClientSampled :

Tot Ion:152 Resp: 17361
Ion Ratio Lower Upper
152 100
150 158.1 122.6 183.8
115 70.4 52.8 79.2



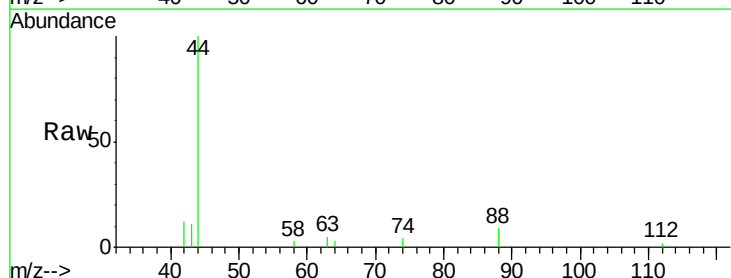
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



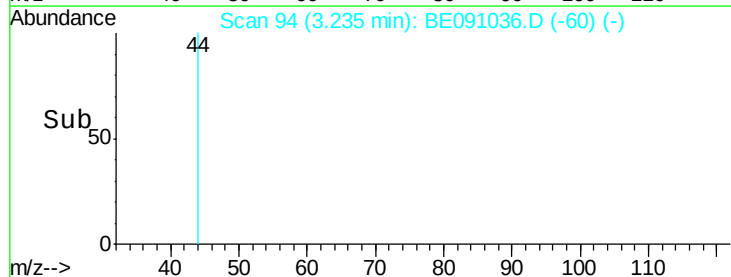
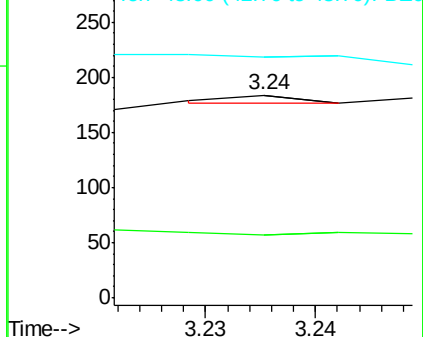
#2

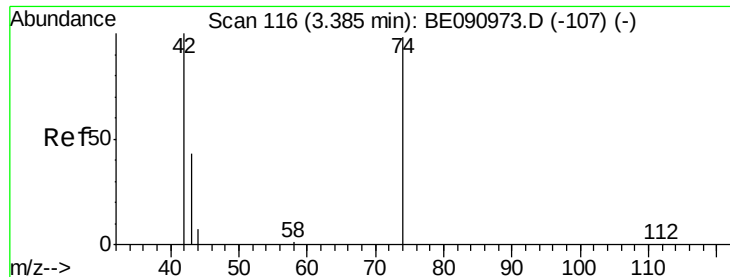
1,4-Dioxane
Concen: Below Cal
RT: 3.24 min Scan# 94
Delta R.T. 0.03 min
Lab File: BE091036.D
Acq: 23 Oct 2015 16:31

Tgt Ion: 88 Resp: 3
Ion Ratio Lower Upper
88 100
58 166.7 65.8 98.6#
43 0.0 25.3 37.9#



Abundance Ion 88.00 (87.70 to 88.70): BE0
Ion 58.00 (57.70 to 58.70): BE0
Ion 43.00 (42.70 to 43.70): BE0



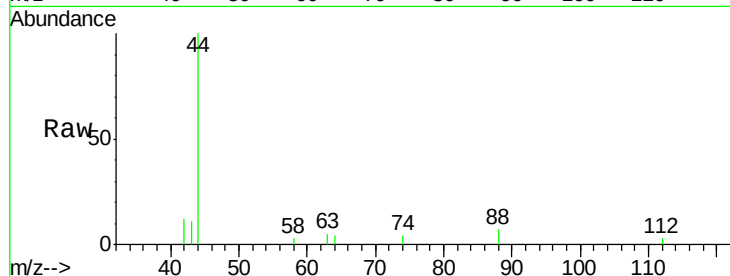


#3

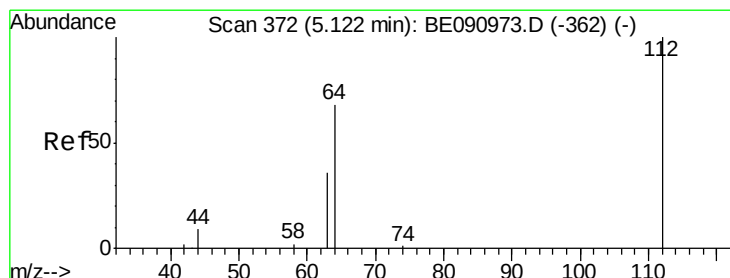
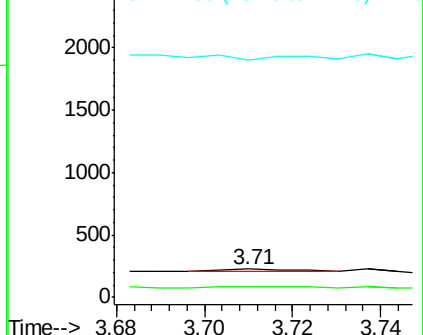
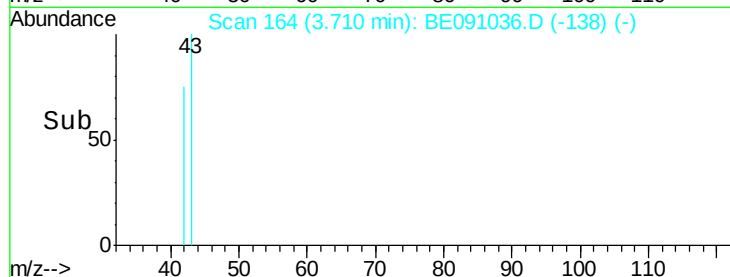
n-Nitrosodimethylamine
 Concen: Below Cal
 RT: 3.71 min Scan# 164
 Delta R.T. -0.02 min
 Lab File: BE091036.D
 Acq: 23 Oct 2015 16:31

Instrument :
 BNA_E
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
42	100		
74	29.6	87.9	131.9#
44	0.0	6.6	9.8#



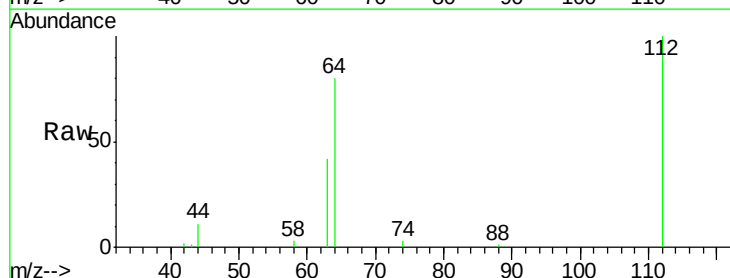
Abundance Ion 42.00 (41.70 to 42.70): BE0
 Ion 74.00 (73.70 to 74.70): BE0
 Ion 44.00 (43.70 to 44.70): BE0



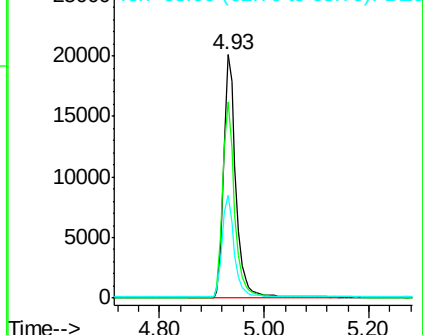
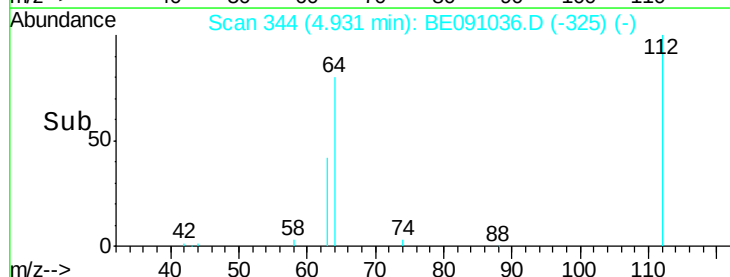
#4

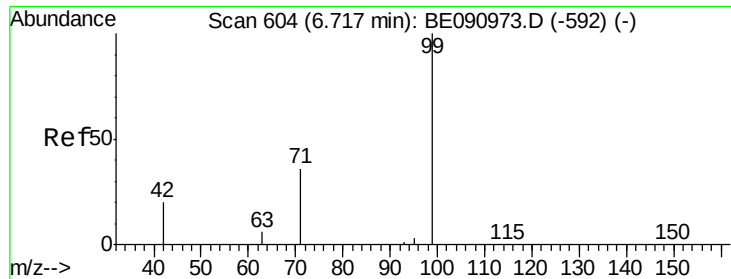
2-Fluorophenol
 Concen: 9.18 ng
 RT: 4.93 min Scan# 344
 Delta R.T. -0.07 min
 Lab File: BE091036.D
 Acq: 23 Oct 2015 16:31

Tgt Ion	Ratio	Lower	Upper
112	100		
64	78.7	30.9	46.3#
63	41.5	16.7	25.1#



Abundance Ion 112.00 (111.70 to 112.70): E
 Ion 64.00 (63.70 to 64.70): BE0
 Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 9.64 ng

RT: 6.56 min Scan# 580

Delta R.T. -0.07 min

Lab File: BE091036.D

Acq: 23 Oct 2015 16:31

Instrument :

BNA_E

ClientSampleId :

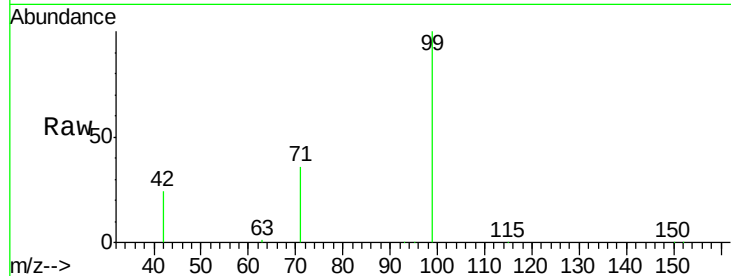
Tot Ion: 99 Resp: 42828

Ion Ratio Lower Upper

99 100

42 26.3 16.2 24.2#

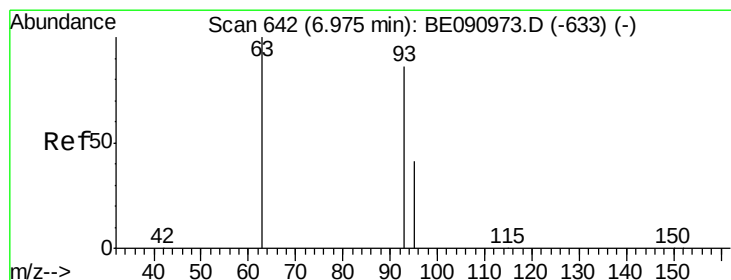
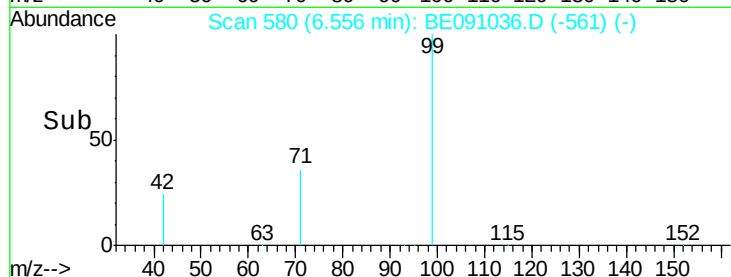
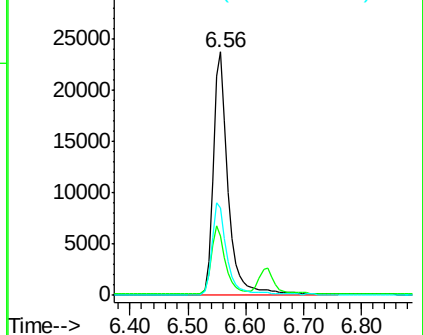
71 38.3 29.0 43.4



Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0



#6

bis(2-Chloroethyl)ether

Concen: 0.06 ng

RT: 6.64 min Scan# 592

Delta R.T. -0.02 min

Lab File: BE091036.D

Acq: 23 Oct 2015 16:31

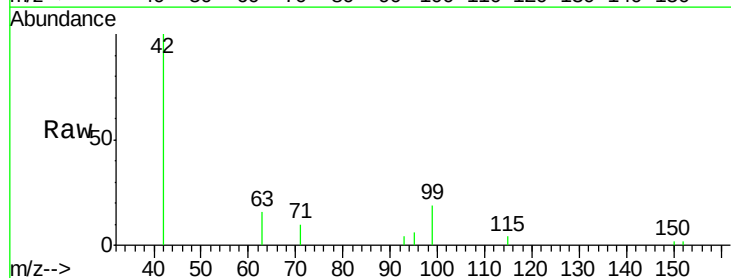
Tgt Ion: 93 Resp: 71

Ion Ratio Lower Upper

93 100

63 705.6 49.5 74.3#

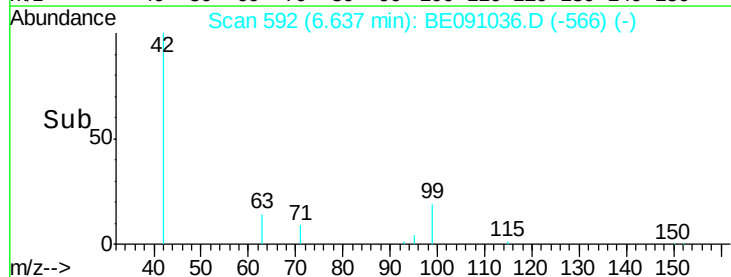
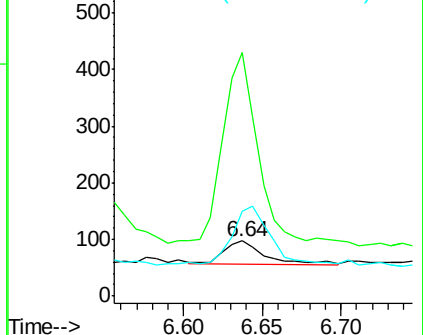
95 262.0 22.2 33.4#

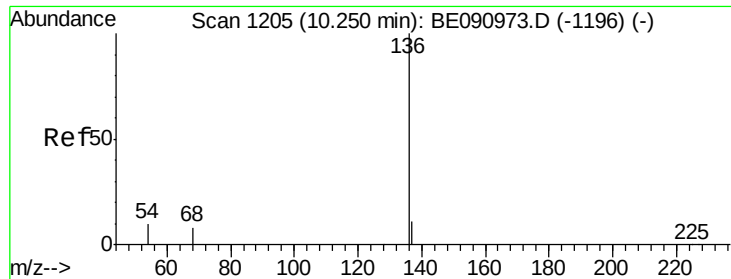


Abundance Ion 93.00 (92.70 to 93.70): BE0

Ion 63.00 (62.70 to 63.70): BE0

Ion 95.00 (94.70 to 95.70): BE0





#7

Naphthalene-d8

Concen: 5.00 ng

RT: 9.59 min Scan# 1155

Delta R.T. -0.05 min

Lab File: BE091036.D

Acq: 23 Oct 2015 16:31

Instrument :

BNA_E

ClientSampleId :

Tot Ion:136 Resp: 77064

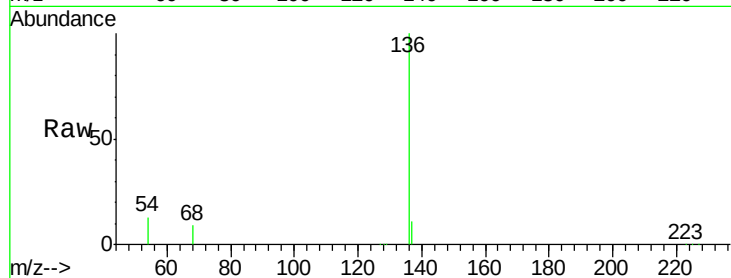
Ion Ratio Lower Upper

136 100

137 11.0 8.9 13.3

54 13.4 8.2 12.4#

68 8.8 6.2 9.4

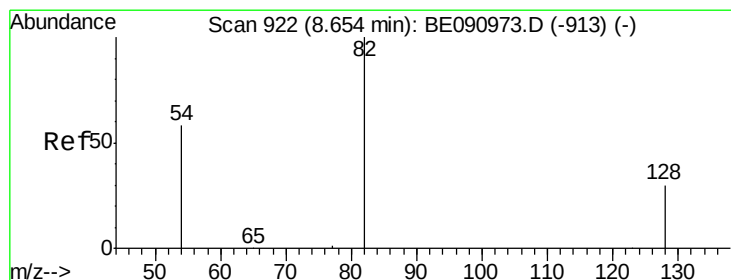
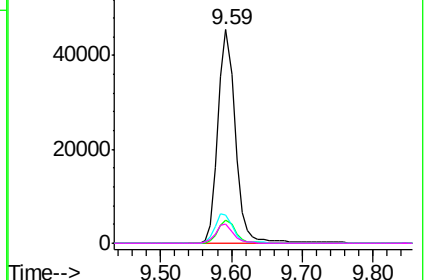
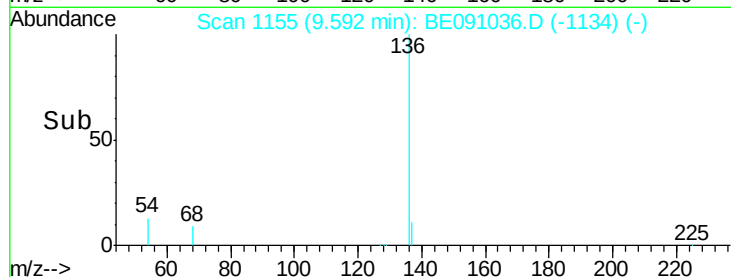


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0

Ion 68.00 (67.70 to 68.70): BE0



#8

Nitrobenzene-d5

Concen: 4.74 ng

RT: 8.18 min Scan# 865

Delta R.T. -0.05 min

Lab File: BE091036.D

Acq: 23 Oct 2015 16:31

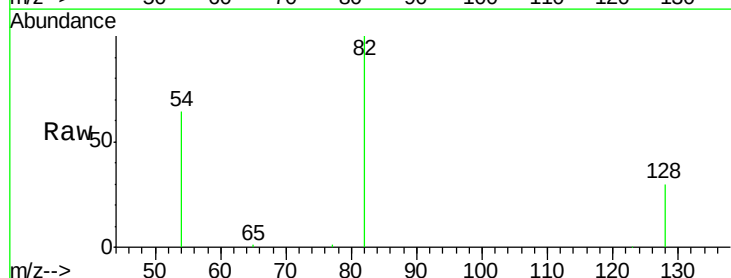
Tgt Ion: 82 Resp: 24042

Ion Ratio Lower Upper

82 100

128 29.7 25.4 38.0

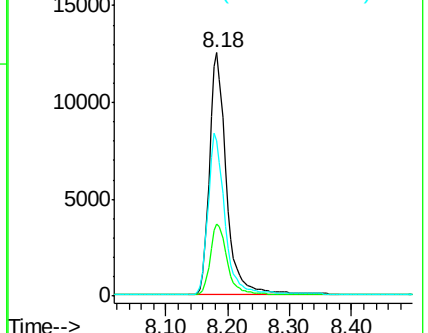
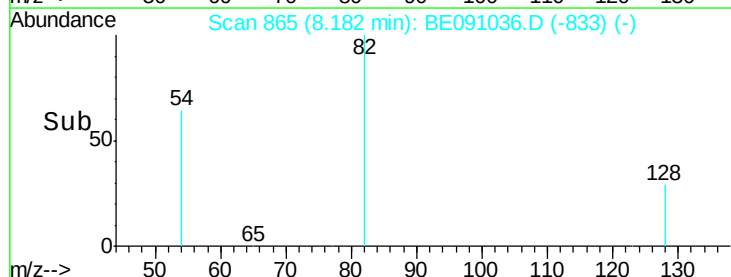
54 63.8 48.4 72.6

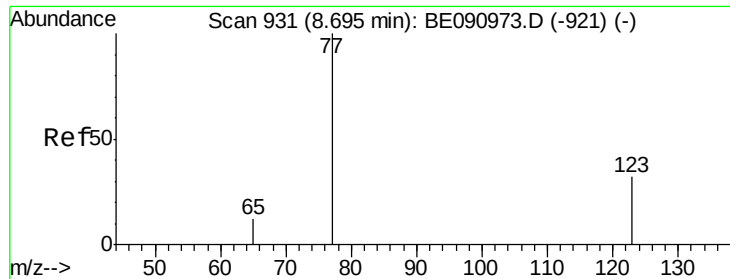


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#9

Nitrobenzene

Concen: 0.29 ng

RT: 8.24 min Scan# 877

Delta R.T. -0.03 min

Lab File: BE091036.D

Acq: 23 Oct 2015 16:31

Instrument :

BNA_E

ClientSampleId :

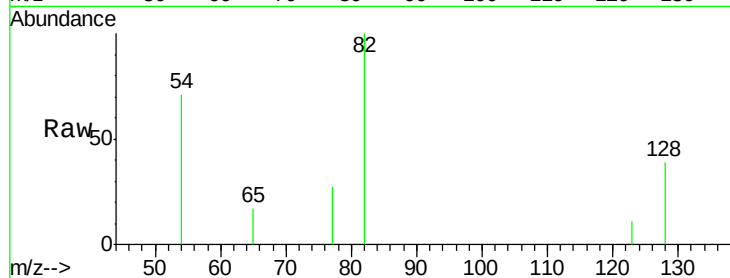
Tot Ion: 77 Resp: 16

Ion Ratio Lower Upper

77 100

123 12.5 26.9 40.3#

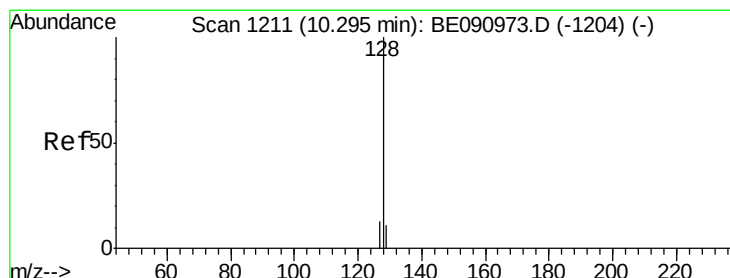
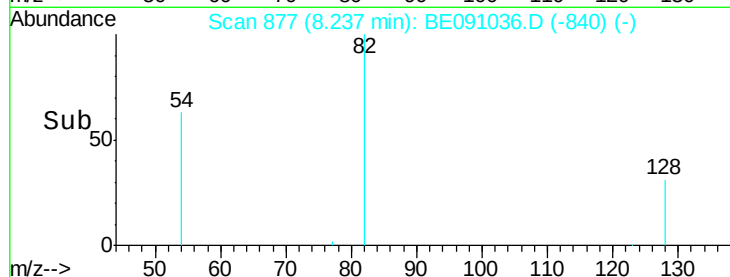
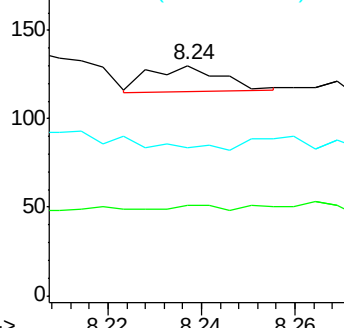
65 0.0 9.4 14.2#



Abundance Ion 77.00 (76.70 to 77.70): BE090973.D (-921) (-)

Ion 123.00 (122.70 to 123.70): BE090973.D (-921) (-)

Ion 65.00 (64.70 to 65.70): BE090973.D (-921) (-)



#10

Naphthalene

Concen: Below Cal

RT: 9.58 min Scan# 1154

Delta R.T. -0.10 min

Lab File: BE091036.D

Acq: 23 Oct 2015 16:31

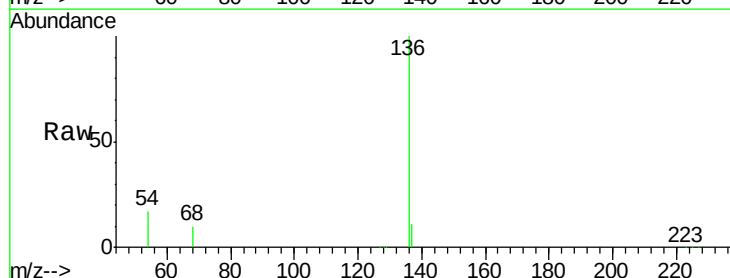
Tgt Ion: 128 Resp: 23

Ion Ratio Lower Upper

128 100

129 85.7 9.3 13.9#

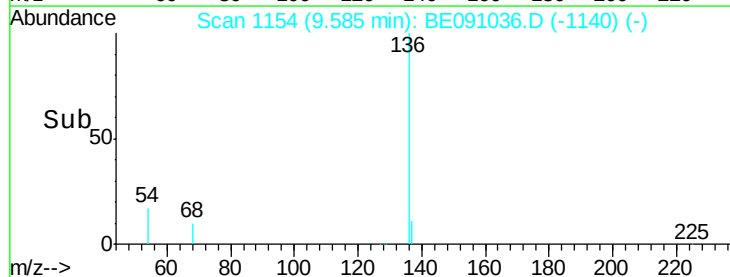
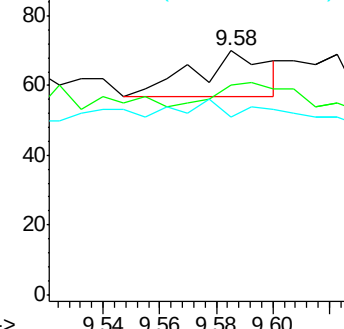
127 72.9 10.7 16.1#

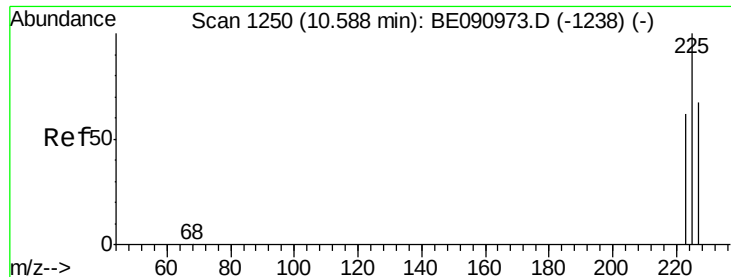


Abundance Ion 128.00 (127.70 to 128.70): BE090973.D (-1204) (-)

Ion 129.00 (128.70 to 129.70): BE090973.D (-1204) (-)

Ion 127.00 (126.70 to 127.70): BE090973.D (-1204) (-)

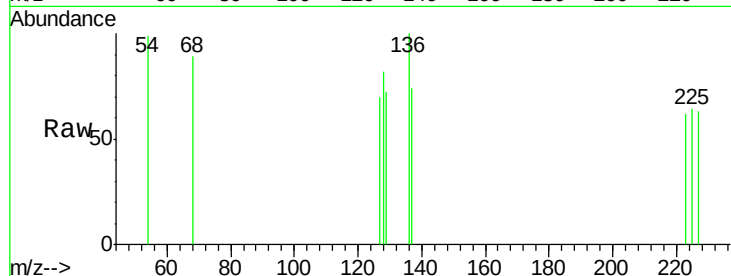




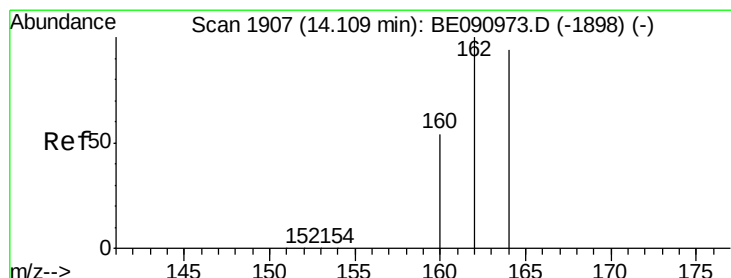
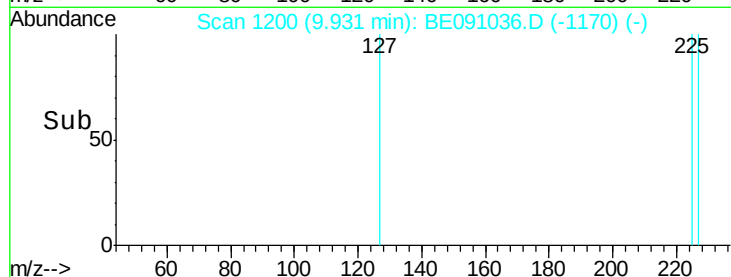
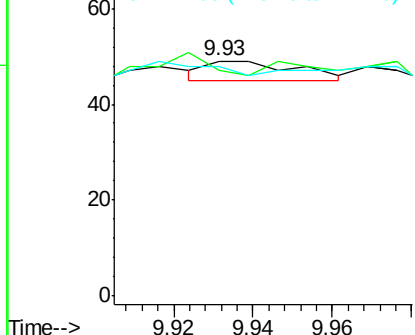
#11
Hexachlorobutadiene
Concen: Below Cal
RT: 9.93 min Scan# 1200
Delta R.T. 0.02 min
Lab File: BE091036.D
Acq: 23 Oct 2015 16:31

Instrument :
BNA_E
ClientSampleId :

Tot Ion:225 Resp: 6
Ion Ratio Lower Upper
225 100
223 50.0 49.0 73.6
227 66.7 50.3 75.5

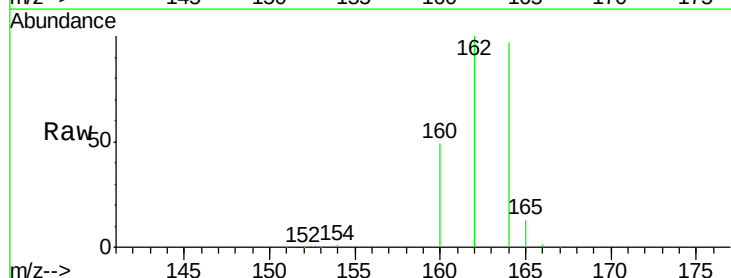


Abundance Ion 225.00 (224.70 to 225.70): E
Ion 223.00 (222.70 to 223.70): E
Ion 227.00 (226.70 to 227.70): E

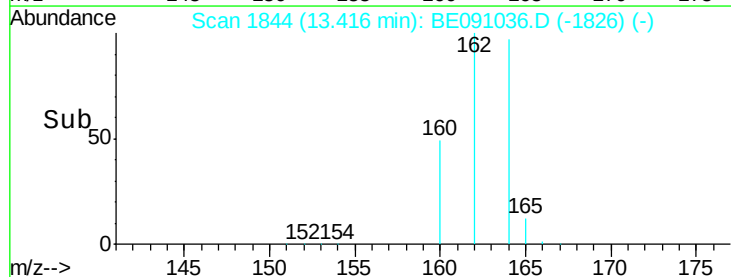
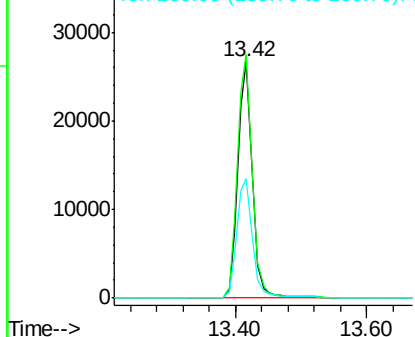


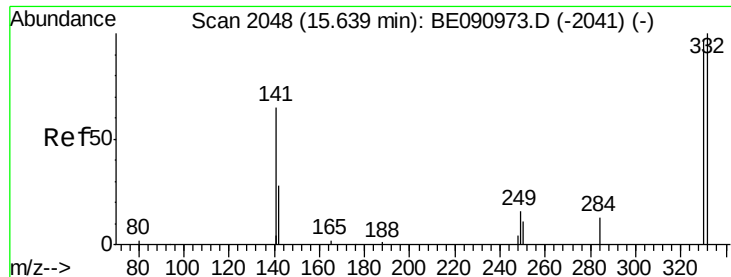
#13
Acenaphthene-d10
Concen: 5.00 ng
RT: 13.42 min Scan# 1844
Delta R.T. -0.04 min
Lab File: BE091036.D
Acq: 23 Oct 2015 16:31

Tgt Ion:164 Resp: 40433
Ion Ratio Lower Upper
164 100
162 103.0 85.3 127.9
160 50.7 46.2 69.2



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

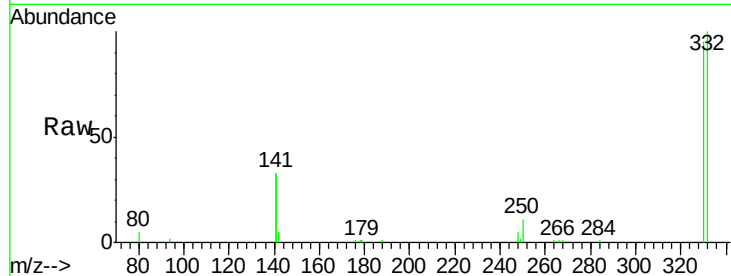




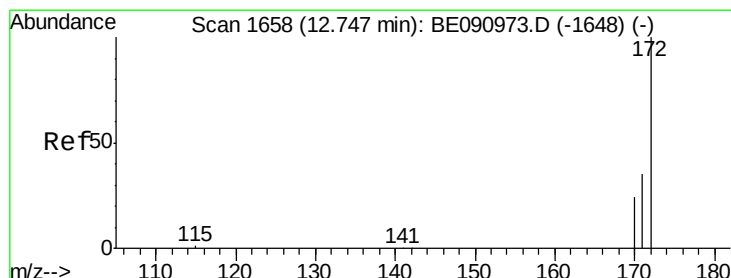
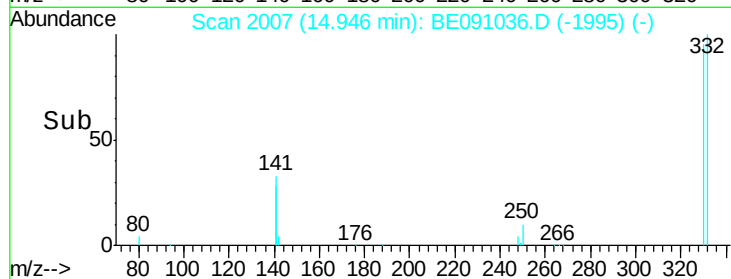
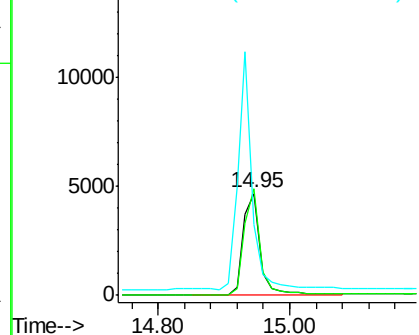
#14
 2,4,6-Tribromophenol
 Concen: 5.98 ng
 RT: 14.95 min Scan# 2007
 Delta R.T. -0.04 min
 Lab File: BE091036.D
 Acq: 23 Oct 2015 16:31

Instrument :
 BNA_E
 ClientSampled :

Tot Ion:330 Resp: 8313
 Ion Ratio Lower Upper
 330 100
 332 98.4 79.1 118.7
 141 196.2 125.4 188.0#

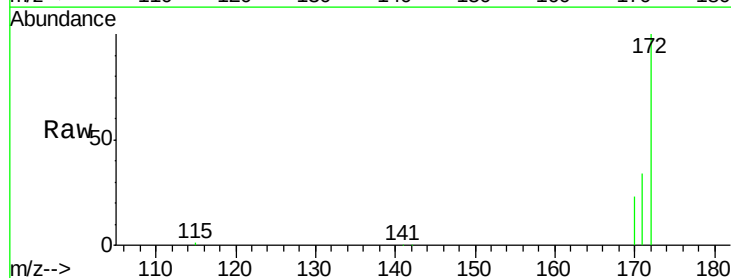


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

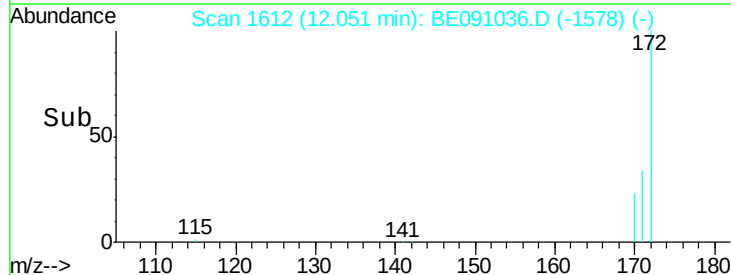
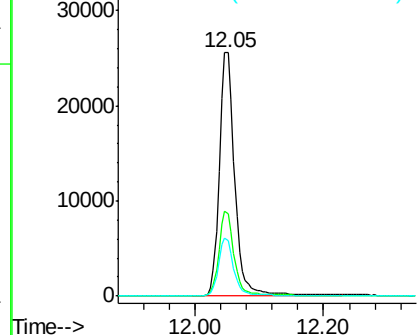


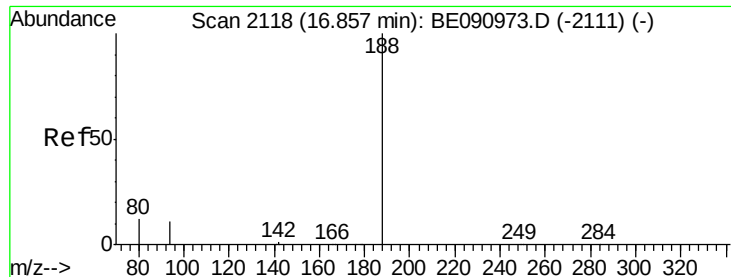
#15
 2-Fluorobiphenyl
 Concen: 3.88 ng
 RT: 12.05 min Scan# 1612
 Delta R.T. -0.05 min
 Lab File: BE091036.D
 Acq: 23 Oct 2015 16:31

Tgt Ion:172 Resp: 42515
 Ion Ratio Lower Upper
 172 100
 171 33.8 28.8 43.2
 170 22.9 19.3 28.9



Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E





#19

Phenanthrene-d10

Concen: 5.00 ng

RT: 16.13 min Scan# 2096

Delta R.T. -0.05 min

Lab File: BE091036.D

Acq: 23 Oct 2015 16:31

Instrument :

BNA_E

ClientSampleId :

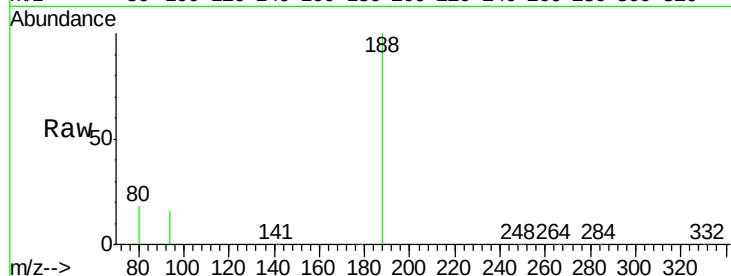
Tot Ion:188 Resp: 100845

Ion Ratio Lower Upper

188 100

94 15.6 8.7 13.1#

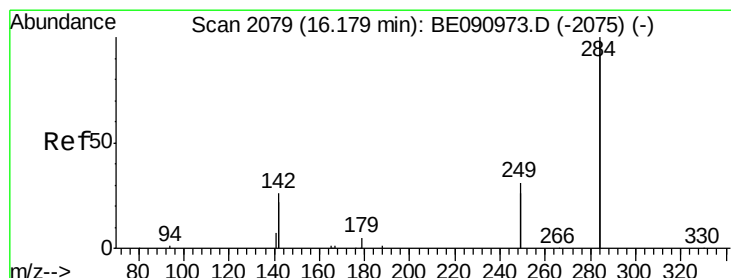
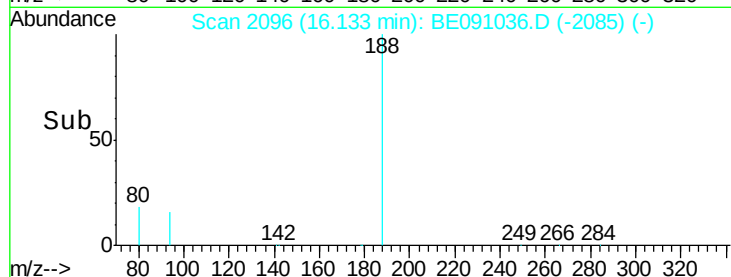
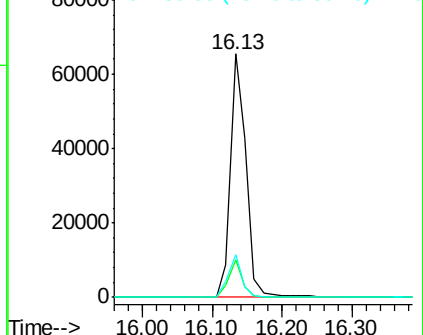
80 17.7 9.4 14.0#



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0



#21

Hexachlorobenzene

Concen: Below Cal

RT: 15.43 min Scan# 2043

Delta R.T. -0.03 min

Lab File: BE091036.D

Acq: 23 Oct 2015 16:31

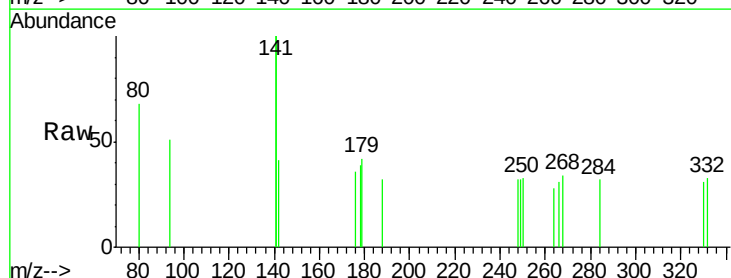
Tgt Ion:284 Resp: 6

Ion Ratio Lower Upper

284 100

142 0.0 32.2 48.2#

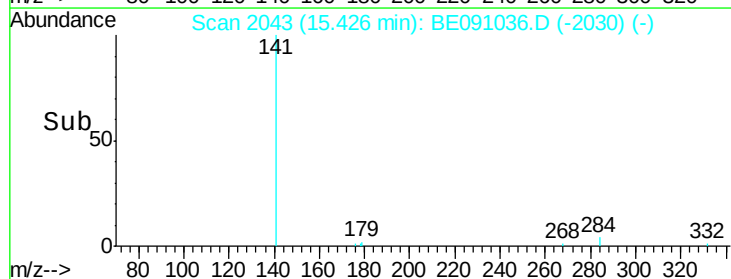
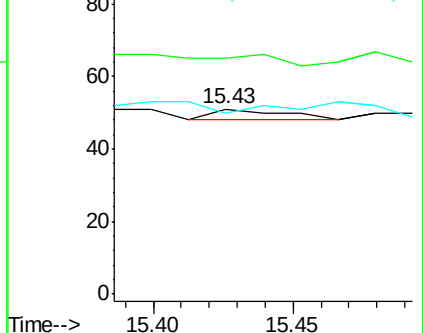
249 0.0 25.4 38.2#

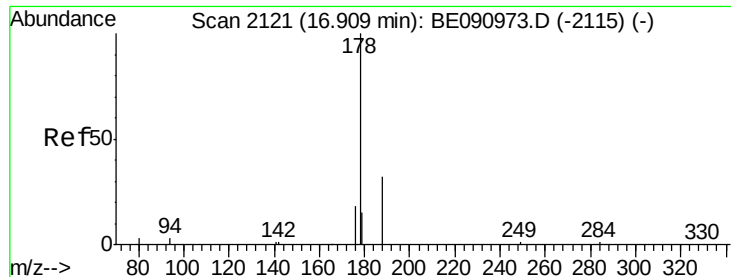


Abundance Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E





#23

Phenanthrene

Concen: Below Cal

RT: 16.17 min Scan# 2099

Delta R.T. -0.05 min

Lab File: BE091036.D

Acq: 23 Oct 2015 16:31

Instrument :

BNA_E

ClientSampleId :

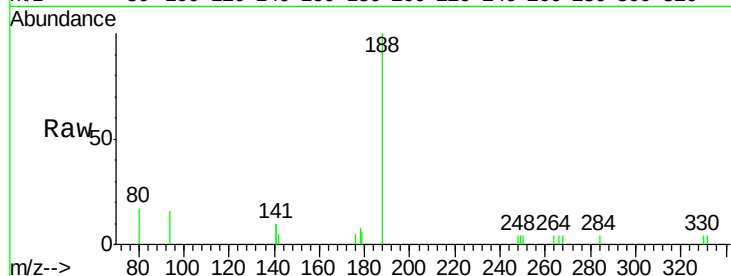
Tot Ion:178 Resp: 130

Ion Ratio Lower Upper

178 100

176 33.1 15.3 22.9#

179 0.0 12.6 18.8#



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

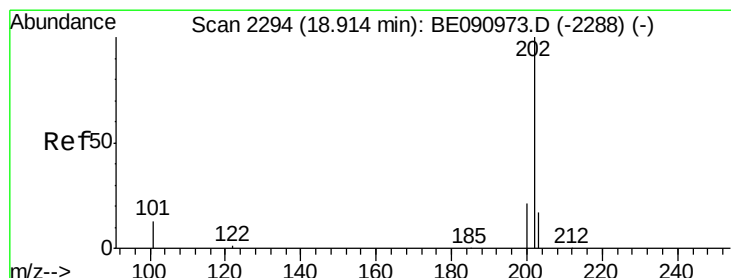
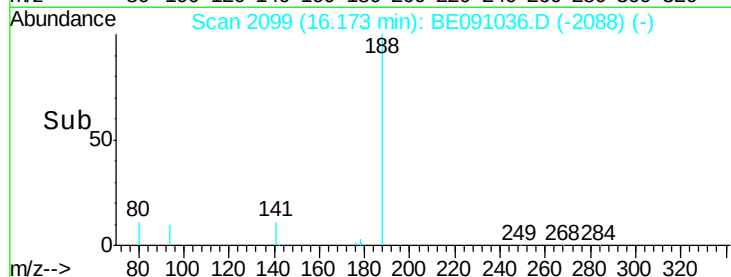
16.17

100

50

0

Time--> 16.00 16.10 16.20



#25

Fluoranthene

Concen: Below Cal

RT: 18.16 min Scan# 2312

Delta R.T. -0.04 min

Lab File: BE091036.D

Acq: 23 Oct 2015 16:31

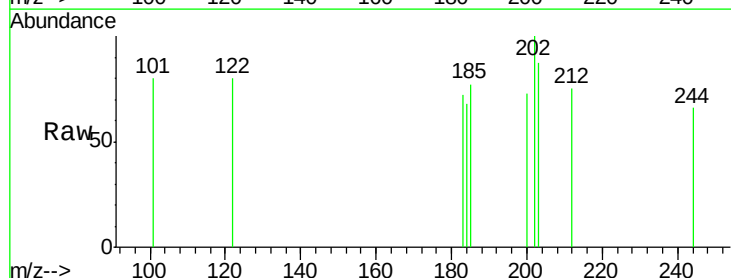
Tgt Ion:202 Resp: 35

Ion Ratio Lower Upper

202 100

101 25.7 11.0 16.6#

203 42.9 13.9 20.9#



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

18.16

80

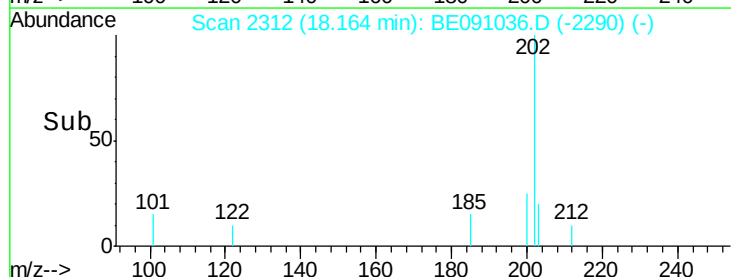
60

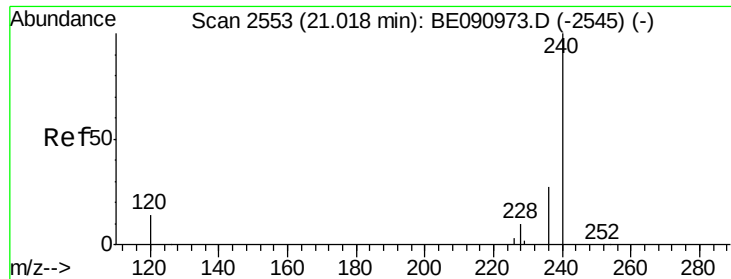
40

20

0

Time--> 18.10 18.15 18.20

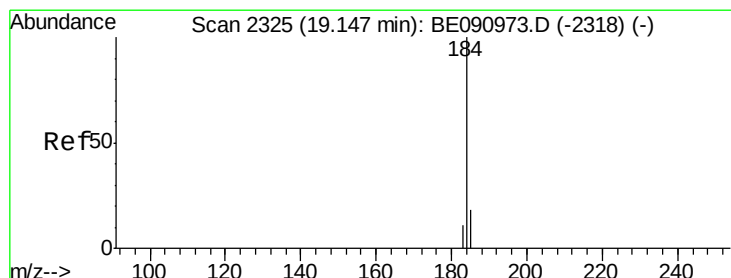
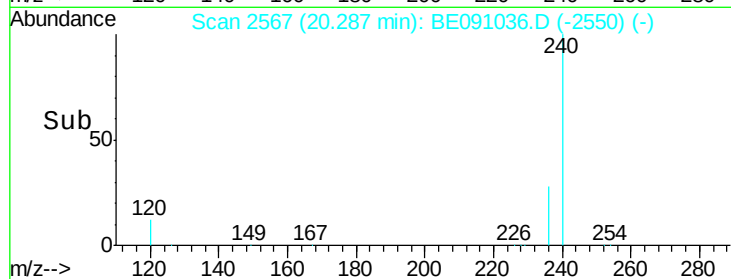
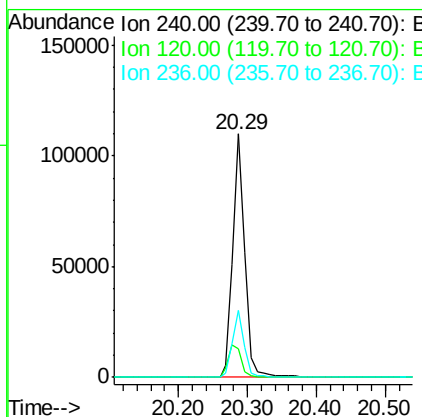
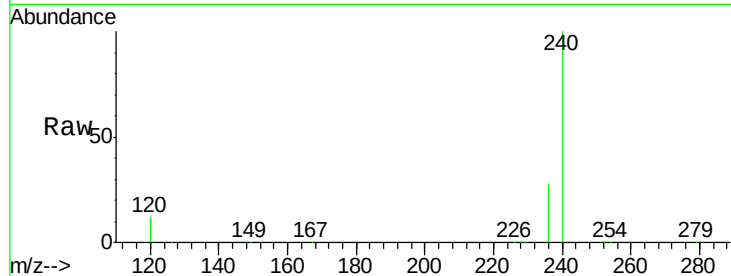




#26
 Chrysene-d12
 Concen: 5.00 ng
 RT: 20.29 min Scan# 2567
 Delta R.T. -0.05 min
 Lab File: BE091036.D
 Acq: 23 Oct 2015 16:31

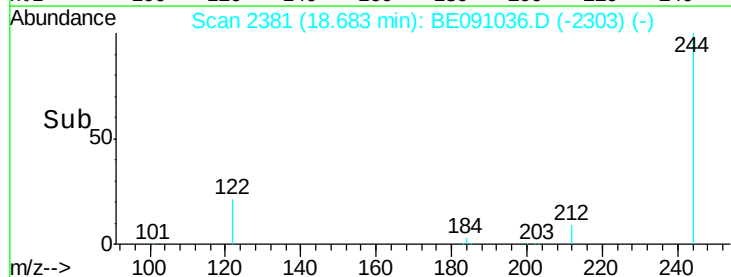
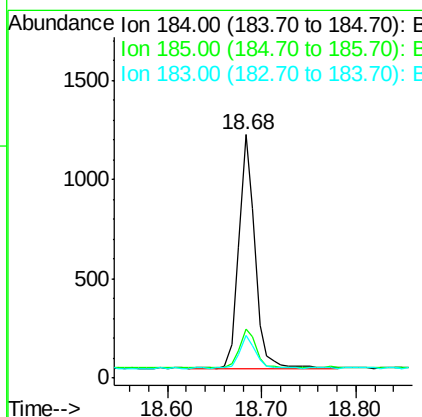
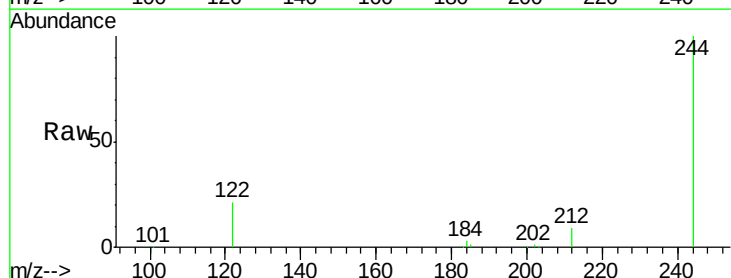
Instrument :
 BNA_E
 ClientSampleId :

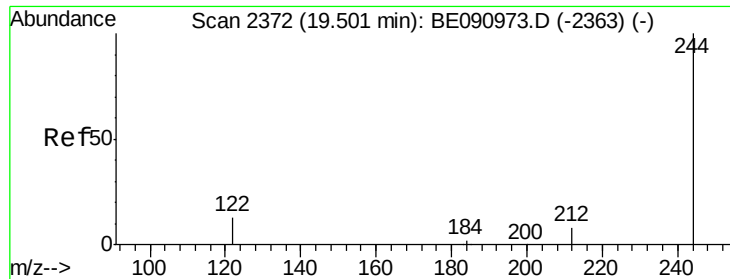
Tot Ion:240 Resp: 130646
 Ion Ratio Lower Upper
 240 100
 120 11.9 11.0 16.4
 236 27.6 21.7 32.5



#27
 Benzidine
 Concen: 0.77 ng
 RT: 18.68 min Scan# 2381
 Delta R.T. 0.09 min
 Lab File: BE091036.D
 Acq: 23 Oct 2015 16:31

Tgt Ion:184 Resp: 1422
 Ion Ratio Lower Upper
 184 100
 185 20.0 22.3 33.5#
 183 17.6 16.4 24.6





#29

Terphenyl-d14

Concen: 4.28 ng

RT: 18.69 min Scan# 2382

Delta R.T. -0.05 min

Lab File: BE091036.D

Acq: 23 Oct 2015 16:31

Instrument :

BNA_E

ClientSampleId :

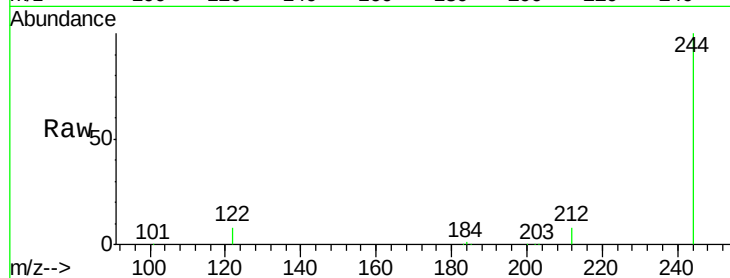
Tot Ion:244 Resp: 68922

Ion Ratio Lower Upper

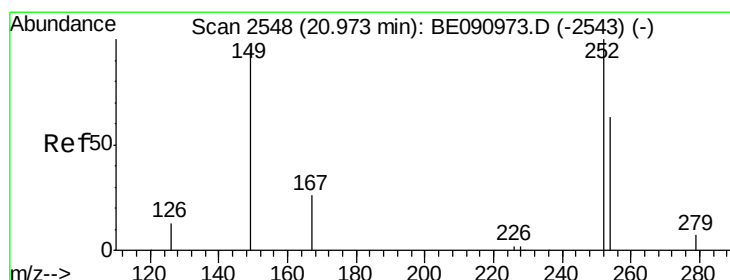
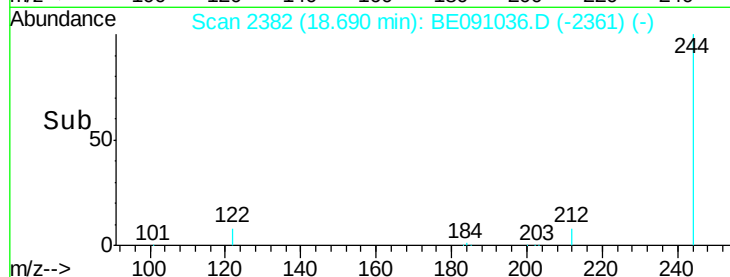
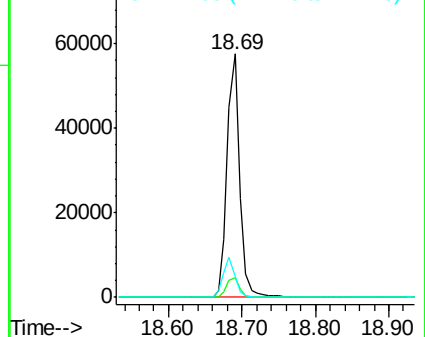
244 100

212 8.1 6.9 10.3

122 8.4 11.0 16.4#



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



#31

3,3'-Dichlorobenzidine

Concen: 0.04 ng

RT: 20.74 min Scan# 2617

Delta R.T. -0.10 min

Lab File: BE091036.D

Acq: 23 Oct 2015 16:31

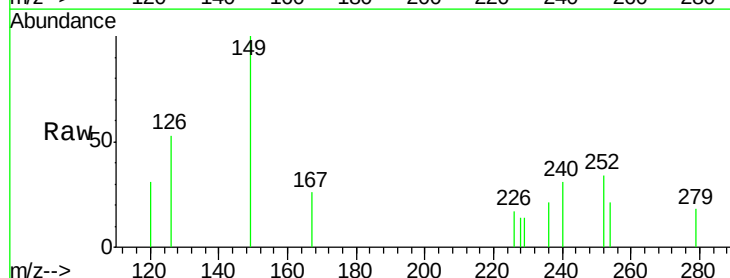
Tgt Ion:252 Resp: 83

Ion Ratio Lower Upper

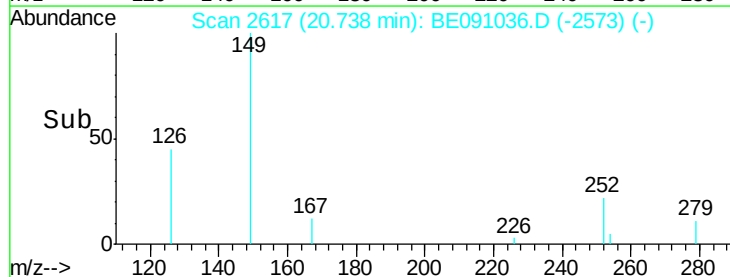
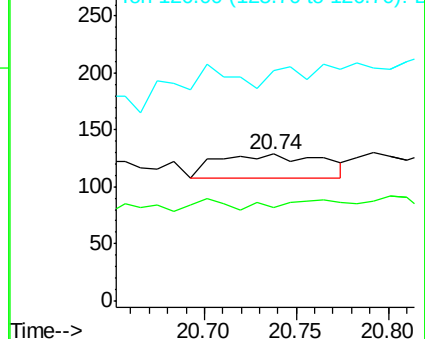
252 100

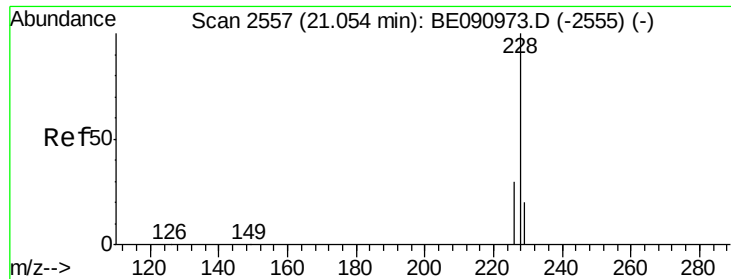
254 63.6 51.1 76.7

126 156.6 12.6 18.8#



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





#32

Chrysene

Concen: Below Cal

RT: 20.29 min Scan# 2567

Delta R.T. -0.07 min

Lab File: BE091036.D

Acq: 23 Oct 2015 16:31

Instrument :

BNA_E

ClientSampled :

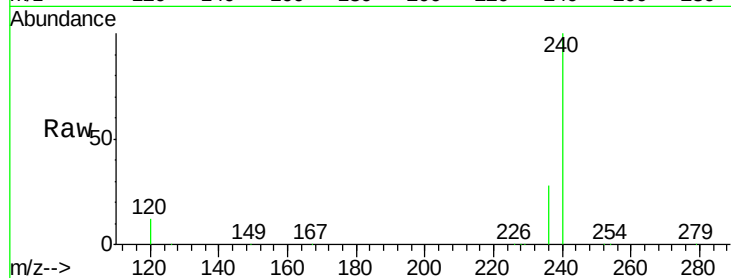
Tot Ion:228 Resp: 514

Ion Ratio Lower Upper

228 100

226 23.3 24.0 36.0#

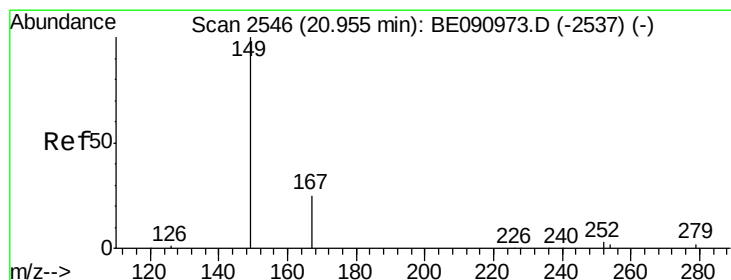
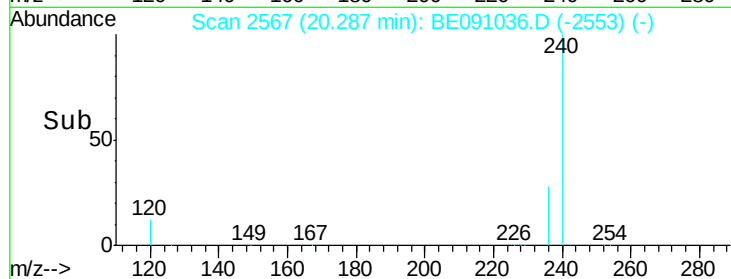
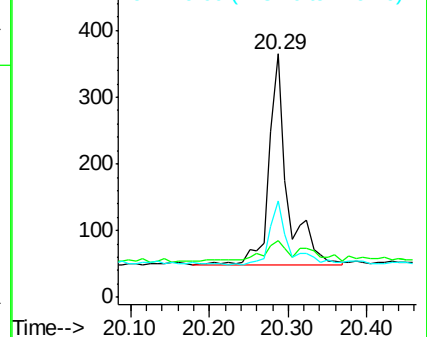
229 39.5 15.9 23.9#



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



#33

Bis(2-ethylhexyl)phthalate

Concen: 0.10 ng

RT: 20.00 min Scan# 2535

Delta R.T. -0.02 min

Lab File: BE091036.D

Acq: 23 Oct 2015 16:31

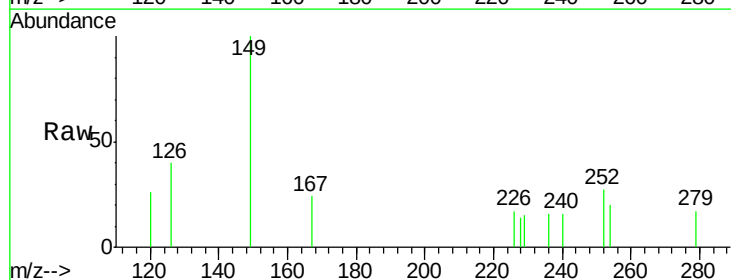
Tgt Ion:149 Resp: 466

Ion Ratio Lower Upper

149 100

167 0.0 19.5 29.3#

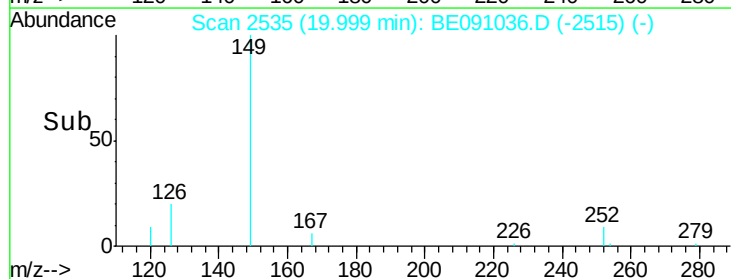
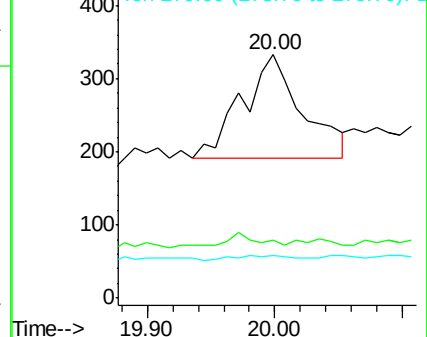
279 0.0 2.3 3.5#

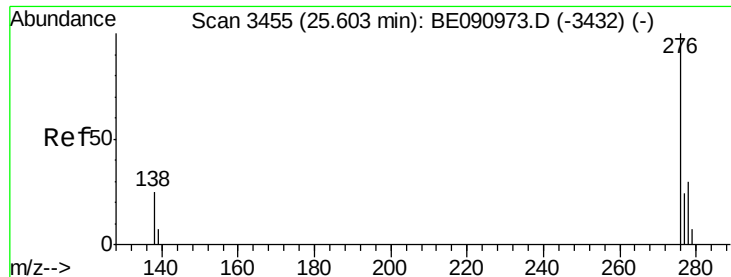


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E

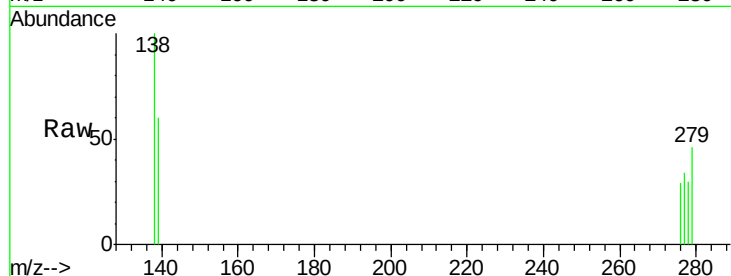




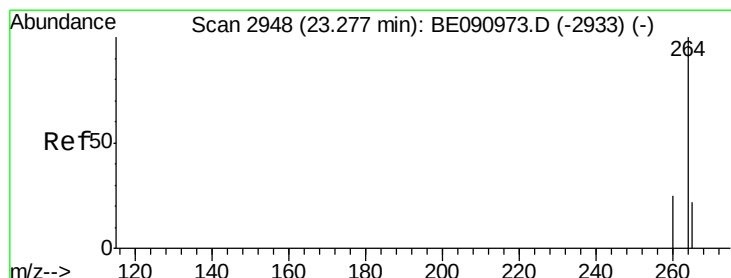
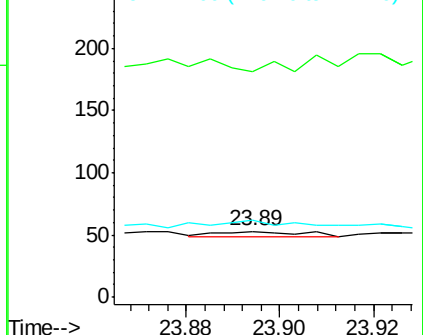
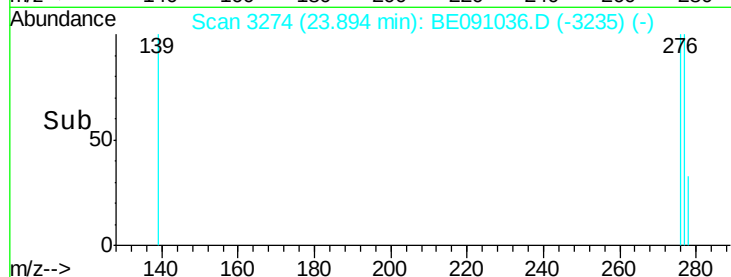
#34
Indeno(1,2,3-cd)pyrene
Concen: 0.11 ng
RT: 23.89 min Scan# 3274
Delta R.T. -0.02 min
Lab File: BE091036.D
Acq: 23 Oct 2015 16:31

Instrument :
BNA_E
ClientSampleId :

Tot Ion:276 Resp: 5
Ion Ratio Lower Upper
276 100
138 560.0 23.4 35.2#
277 140.0 19.8 29.8#

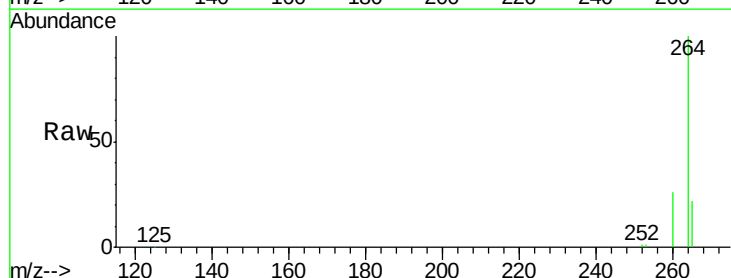


Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E

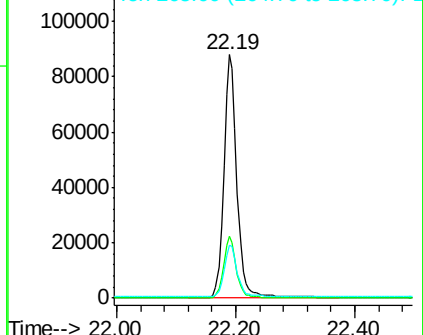
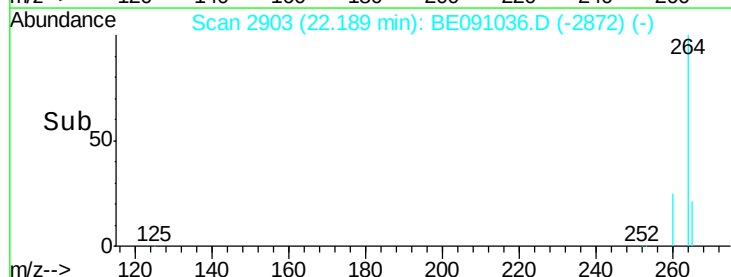


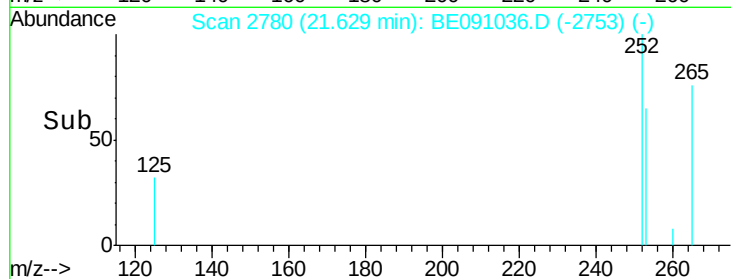
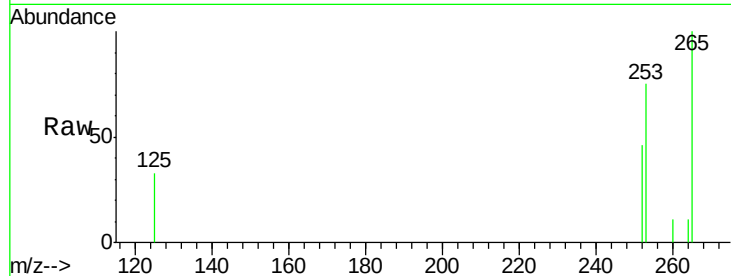
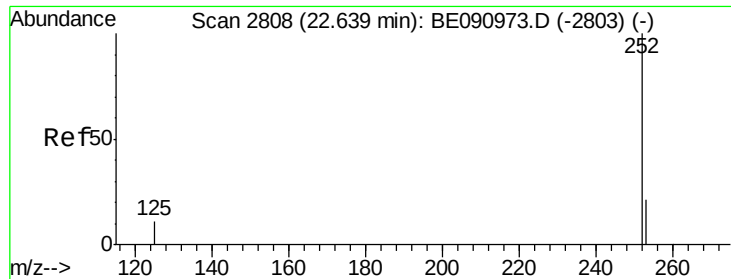
#35
Perylene-d12
Concen: 5.00 ng
RT: 22.19 min Scan# 2903
Delta R.T. -0.06 min
Lab File: BE091036.D
Acq: 23 Oct 2015 16:31

Tgt Ion:264 Resp: 134909
Ion Ratio Lower Upper
264 100
260 25.5 20.0 30.0
265 21.8 17.5 26.3



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





#37

Benzo(k)fluoranthene

Concen: Below Cal

RT: 21.63 min Scan# 2780

Delta R.T. -0.08 min

Lab File: BE091036.D

Acq: 23 Oct 2015 16:31

Instrument :

BNA_E

ClientSampleId :

Tot Ion: 252 Resp: 149

Ion Ratio Lower Upper

252 100

253 164.0 17.6 26.4#

125 72.8 9.9 14.9#

