

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE031816\
 Data File : BE097484.D
 Acq On : 18 Mar 2016 2:33
 Operator : UM/SJ
 Sample : MDL-07-W
 Misc : 0.08PPM
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 MDL-04-W

Quant Time: Mar 18 04:57:32 2016
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-SIM-BE031816.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Mar 18 04:36:48 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.83	152	40403	5.00	ng	0.00
6) Naphthalene-d8	10.61	136	176022	5.00	ng	0.00
10) Acenaphthene-d10	14.44	164	100836	5.00	ng	0.00
16) Phenanthrene-d10	17.18	188	253623	5.00	ng	0.00
22) Chrysene-d12	21.34	240	314085	5.00	ng	0.00
28) Perylene-d12	23.80	264	295221	5.00	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.42	112	70666	7.61	ng	0.00
5) Phenol-d6	6.99	99	88051	7.27	ng	0.00
7) Nitrobenzene-d5	8.98	82	29608	3.16	ng	0.00
11) 2,4,6-Tribromophenol	15.93	330	18609	5.10	ng	0.00
12) 2-Fluorobiphenyl	13.07	172	102491	4.04	ng	0.00
24) Terphenyl-d14	19.79	244	181606	4.81	ng	0.00

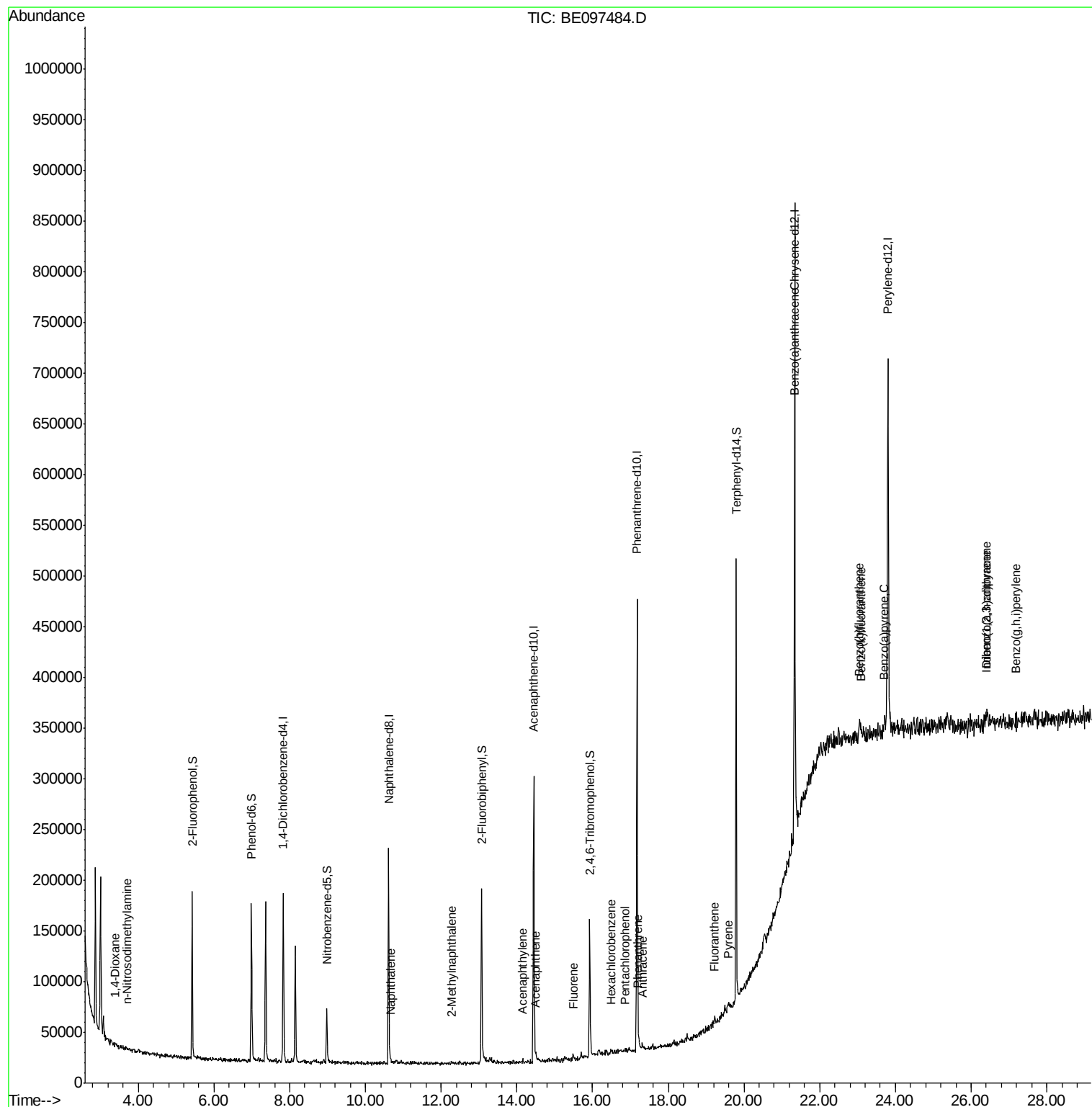
Target Compounds						Qvalue
2) 1,4-Dioxane	3.38	88	790	0.16	ng	# 87
3) n-Nitrosodimethylamine	3.70	42	489	0.07	ng	# 1
8) Naphthalene	10.67	128	2566	0.06	ng	# 92
9) 2-Methylnaphthalene	12.28	142	1231	0.04	ng	# 90
13) Acenaphthylene	14.16	152	1533	0.16	ng	# 84
14) Acenaphthene	14.50	154	1704	0.05	ng	# 91
15) Fluorene	15.49	166	1977	0.05	ng	# 90
17) Hexachlorobenzene	16.48	284	754	0.07	ng	# 79
18) Pentachlorophenol	16.84	266	239	0.34	ng	# 68
19) Phenanthrene	17.21	178	3995	0.06	ng	# 90
20) Anthracene	17.32	178	2651	0.04	ng	# 89
21) Fluoranthene	19.23	202	3391	0.04	ng	# 88
23) Pyrene	19.59	202	3895	0.05	ng	# 86
25) Benzo(a)anthracene	21.33	228	4850	0.06	ng	# 94
26) Chrysene	21.38	228	7038	Below Cal		# 90
27) Indeno(1,2,3-cd)pyrene	26.40	276	1733	0.02	ng	# 50
29) Benzo(b)fluoranthene	23.05	252	6032	0.06	ng	# 60
30) Benzo(k)fluoranthene	23.09	252	5093	0.05	ng	# 87
31) Benzo(a)pyrene	23.69	252	3708	0.05	ng	# 78
32) Dibenzo(a,h)anthracene	26.41	278	1229	0.02	ng	# 81
33) Benzo(g,h,i)perylene	27.19	276	2022	0.02	ng	# 44

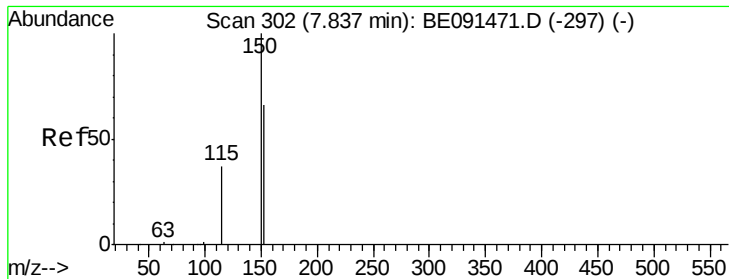
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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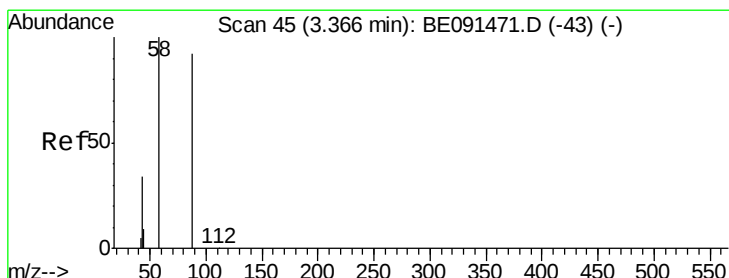
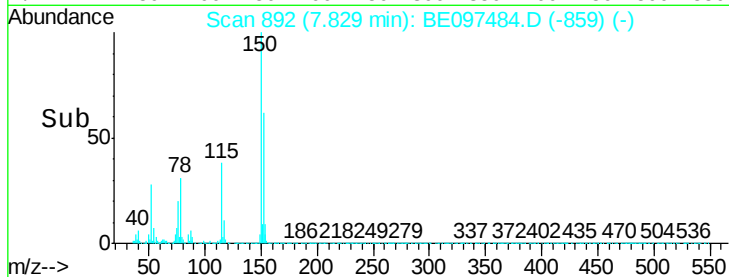
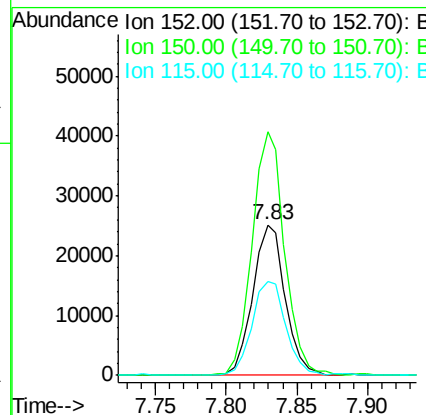
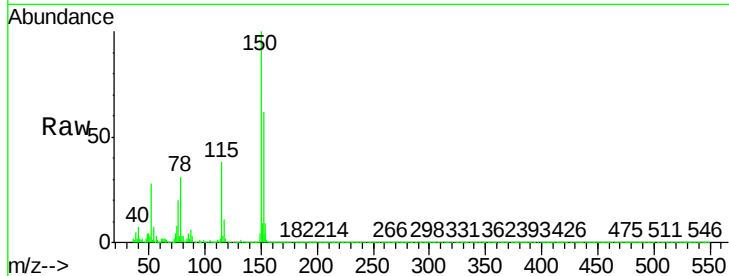


#1

1,4-Dichlorobenzene-d4
Concen: 5.00 ng
RT: 7.83 min Scan# 892
Delta R.T. -0.01 min
Lab File: BE097484.D
Acq: 18 Mar 2016 2:33

Instrument :
BNA_E
ClientSampled :
MDL-04-W

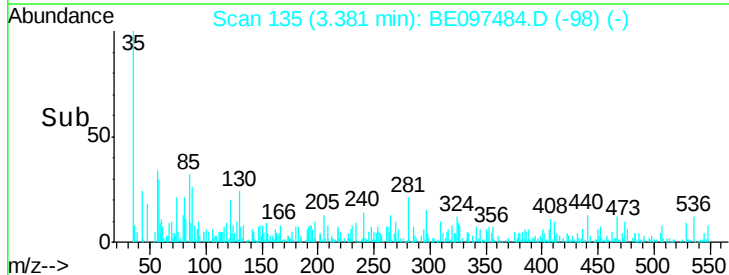
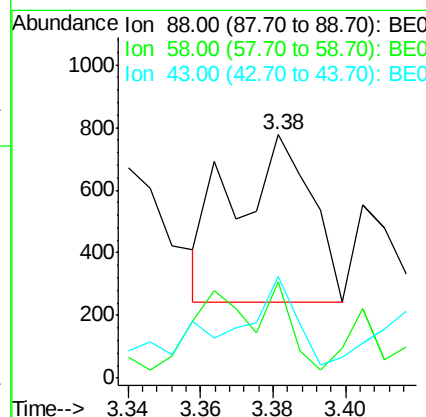
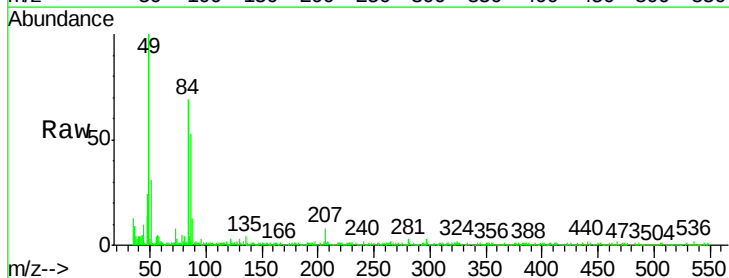
Tgt Ion:152 Resp: 40403
Ion Ratio Lower Upper
152 100
150 161.7 122.2 183.2
115 62.0 45.9 68.9

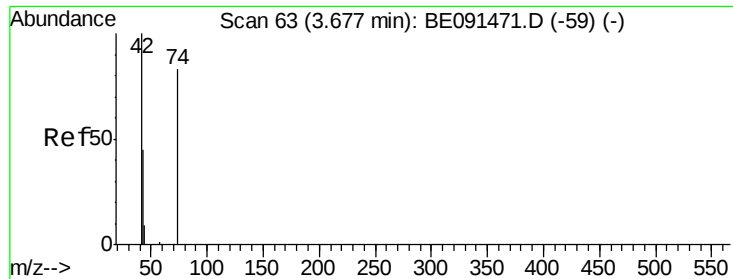


#2

1,4-Dioxane
Concen: 0.16 ng
RT: 3.38 min Scan# 135
Delta R.T. 0.02 min
Lab File: BE097484.D
Acq: 18 Mar 2016 2:33

Tgt Ion: 88 Resp: 790
Ion Ratio Lower Upper
88 100
58 65.4 61.0 91.6
43 39.4 25.4 38.2#





#3

n-Nitrosodimethylamine

Concen: 0.07 ng

RT: 3.70 min Scan# 189

Delta R.T. 0.02 min

Lab File: BE097484.D

Acq: 18 Mar 2016 2:33

Instrument :

BNA_E

ClientSampleId :

MDL-04-W

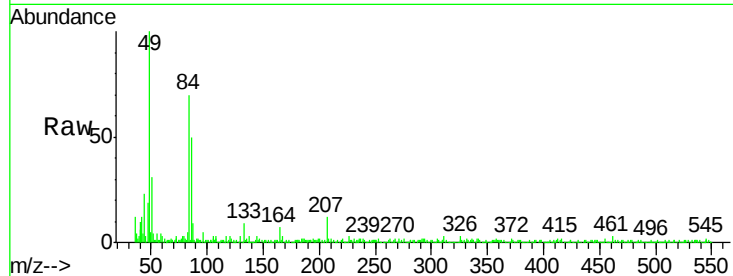
Tgt Ion: 42 Resp: 489

Ion Ratio Lower Upper

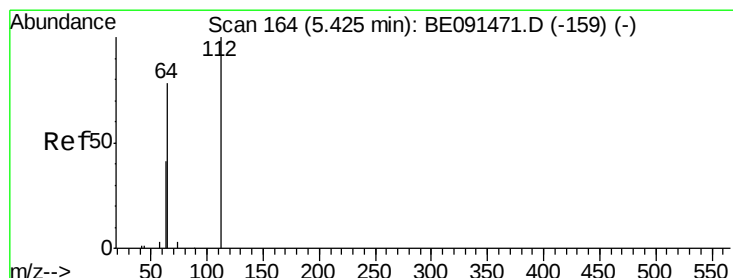
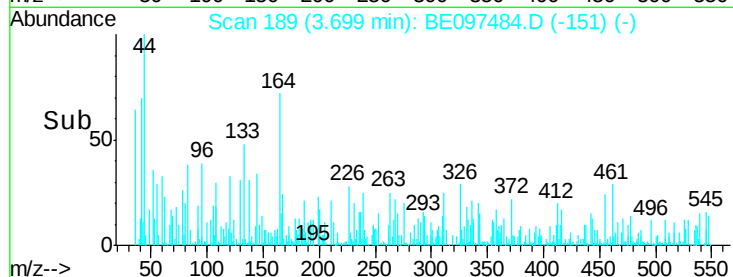
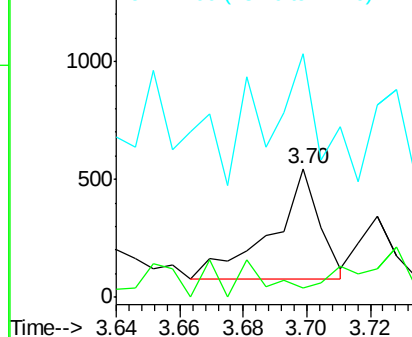
42 100

74 0.0 84.3 126.5#

44 134.6 6.7 10.1#



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: 7.61 ng

RT: 5.42 min Scan# 482

Delta R.T. -0.00 min

Lab File: BE097484.D

Acq: 18 Mar 2016 2:33

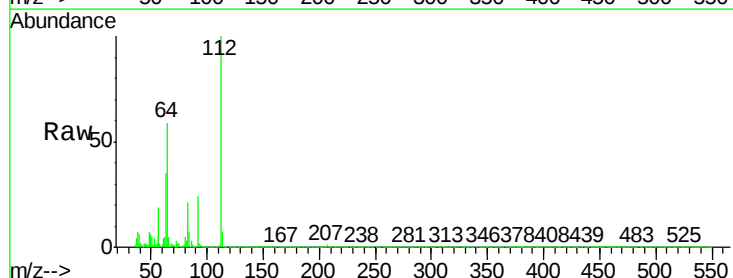
Tgt Ion: 112 Resp: 70666

Ion Ratio Lower Upper

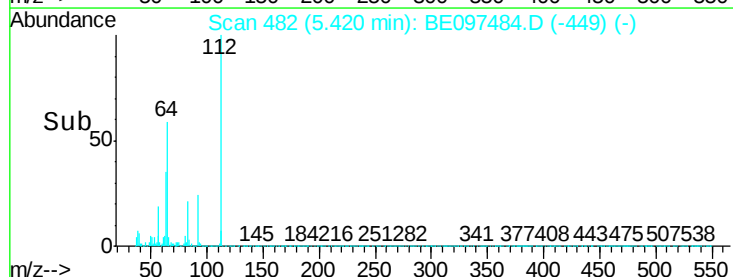
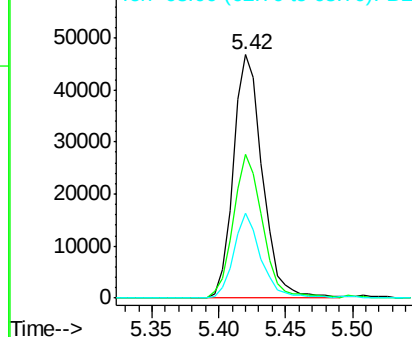
112 100

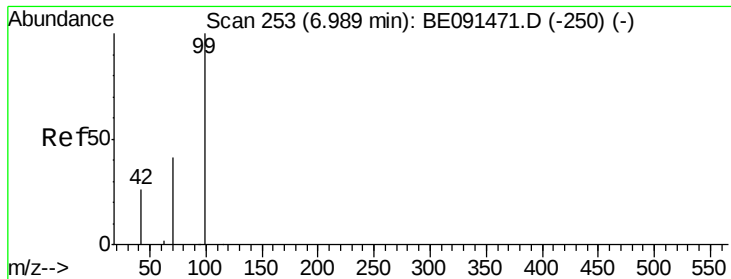
64 59.9 53.3 79.9

63 32.8 29.8 44.8



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: 7.27 ng

RT: 6.99 min Scan# 749

Delta R.T. -0.00 min

Lab File: BE097484.D

Acq: 18 Mar 2016 2:33

Instrument :

BNA_E

ClientSampleId :

MDL-04-W

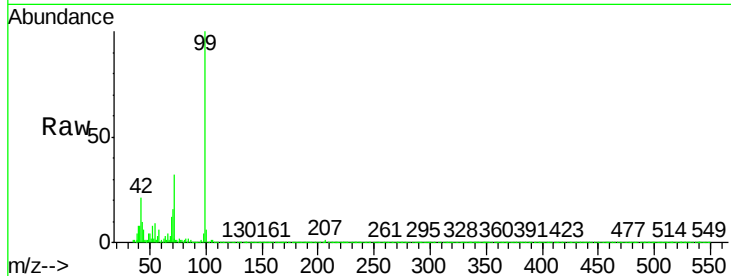
Tgt Ion: 99 Resp: 88051

Ion Ratio Lower Upper

99 100

42 22.4 20.6 30.8

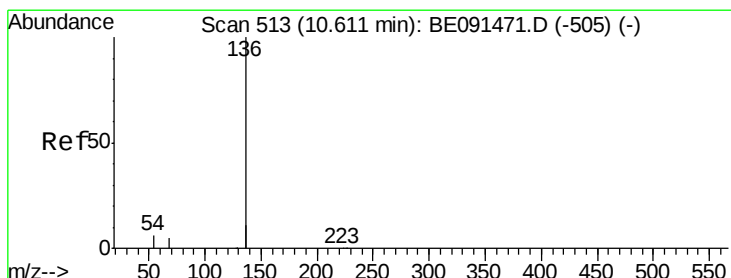
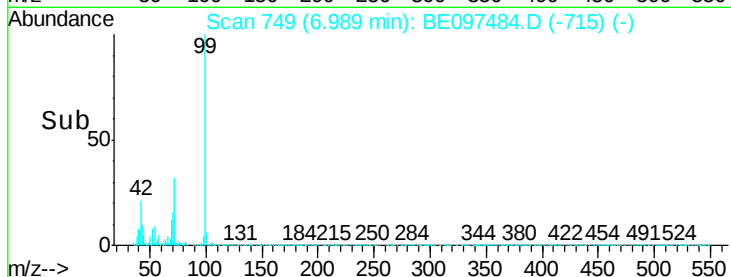
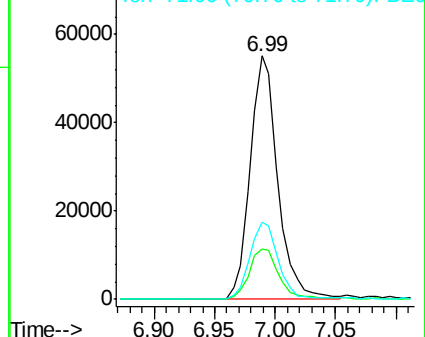
71 32.4 29.0 43.4



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

Naphthalene-d8

Concen: 5.00 ng

RT: 10.61 min Scan# 1365

Delta R.T. -0.00 min

Lab File: BE097484.D

Acq: 18 Mar 2016 2:33

Tgt Ion: 136 Resp: 176022

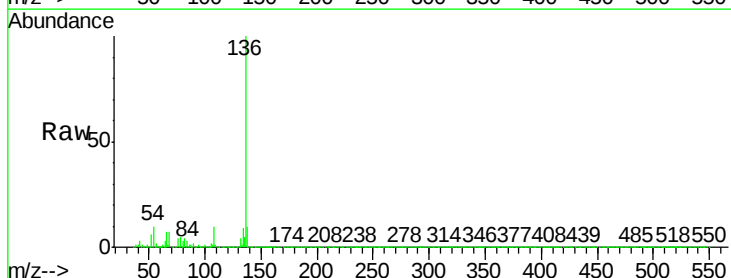
Ion Ratio Lower Upper

136 100

137 10.3 8.8 13.2

54 10.5 5.2 7.8#

68 6.6 4.1 6.1#

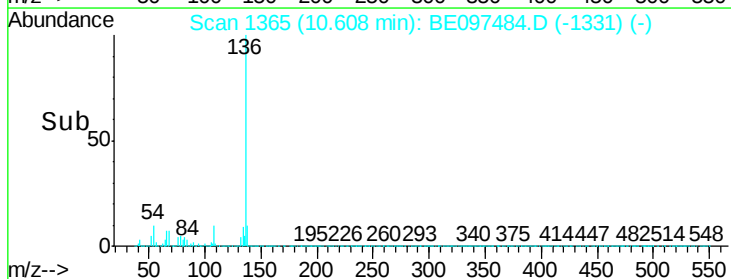
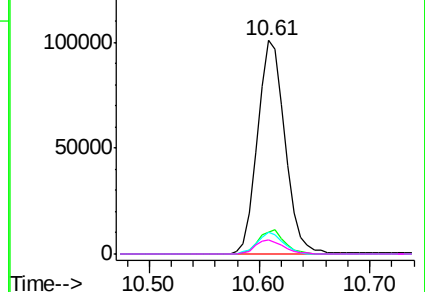


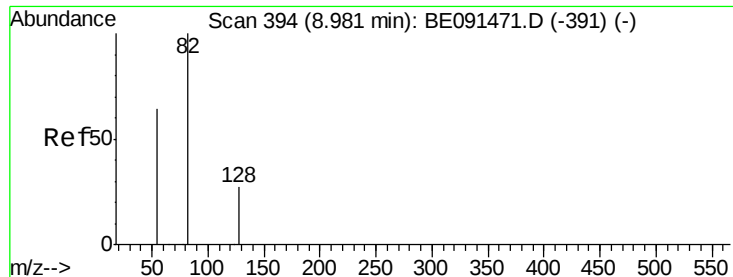
Abundance Ion 136.00 (135.70 to 136.70): E

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





#7

Nitrobenzene-d5

Concen: 3.16 ng

RT: 8.98 min Scan# 1088

Delta R.T. 0.00 min

Lab File: BE097484.D

Acq: 18 Mar 2016 2:33

Instrument :

BNA_E

ClientSampleId :

MDL-04-W

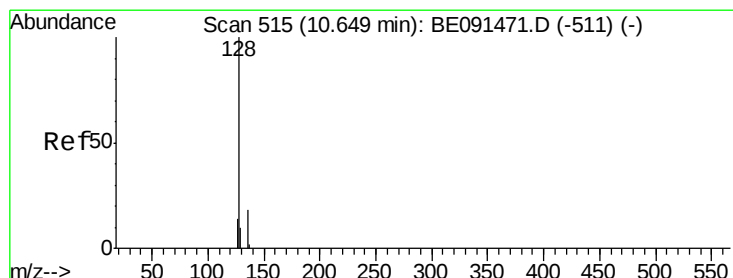
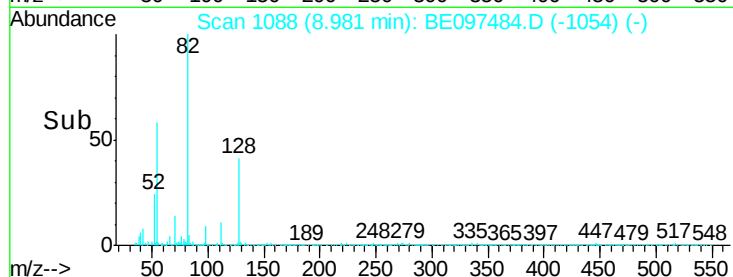
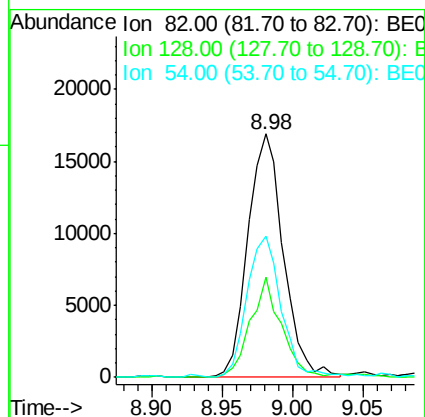
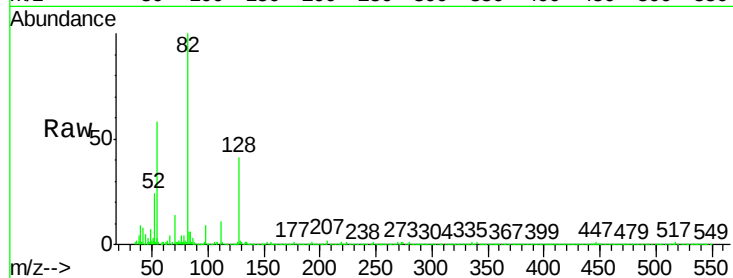
Tgt Ion: 82 Resp: 29608

Ion Ratio Lower Upper

82 100

128 41.0 23.5 35.3#

54 57.9 52.4 78.6



#8

Naphthalene

Concen: 0.06 ng

RT: 10.67 min Scan# 1375

Delta R.T. 0.02 min

Lab File: BE097484.D

Acq: 18 Mar 2016 2:33

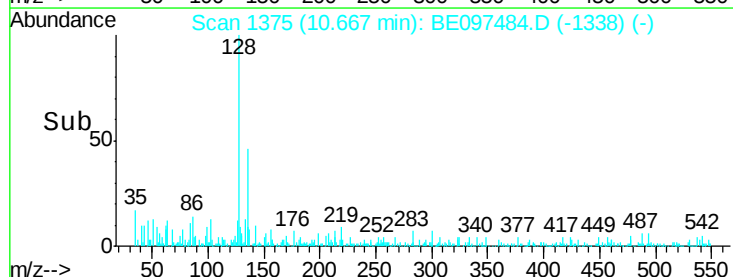
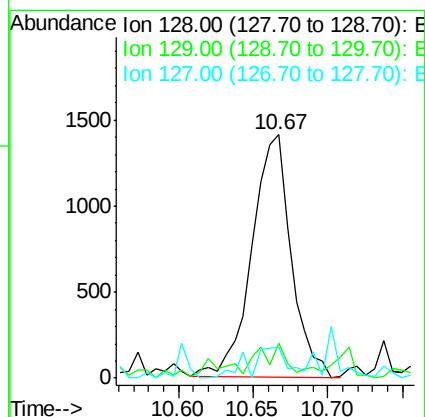
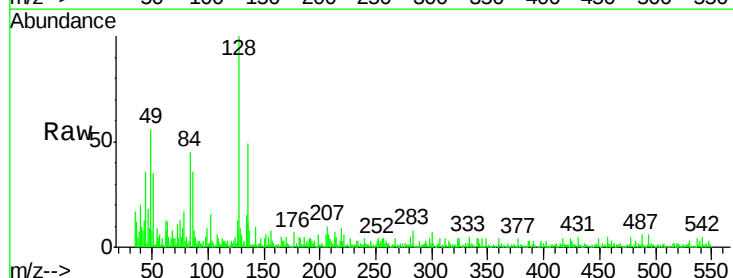
Tgt Ion: 128 Resp: 2566

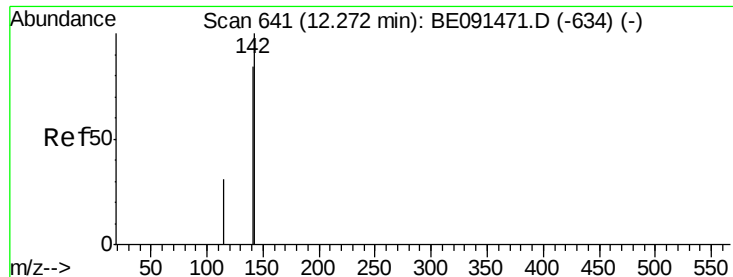
Ion Ratio Lower Upper

128 100

129 14.5 8.2 12.2#

127 12.9 11.8 17.8





#9

2-Methylnaphthalene

Concen: 0.04 ng

RT: 12.28 min Scan# 1649

Delta R.T. 0.00 min

Lab File: BE097484.D

Acq: 18 Mar 2016 2:33

Instrument :

BNA_E

ClientSampleId :

MDL-04-W

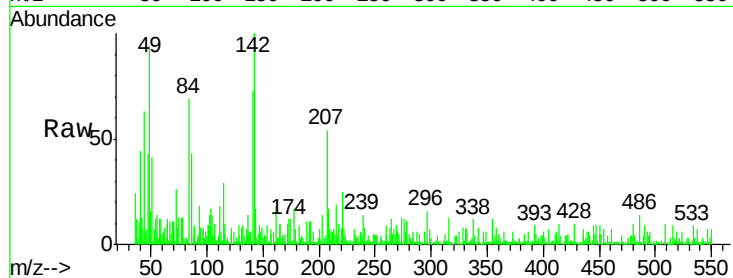
Tgt Ion:142 Resp: 1231

Ion Ratio Lower Upper

142 100

141 73.4 66.9 100.3

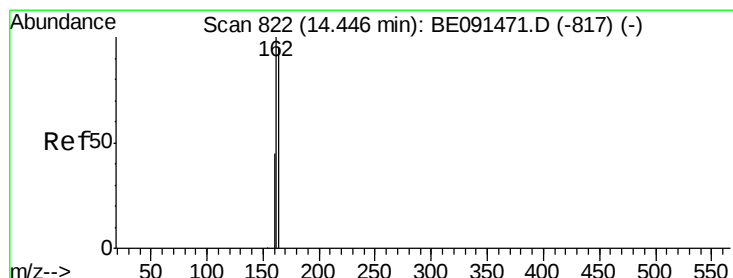
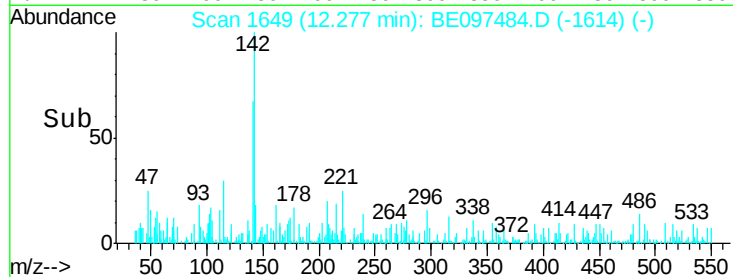
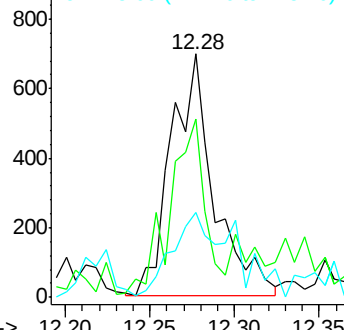
115 34.9 25.1 37.7



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#10

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.44 min Scan# 2018

Delta R.T. -0.00 min

Lab File: BE097484.D

Acq: 18 Mar 2016 2:33

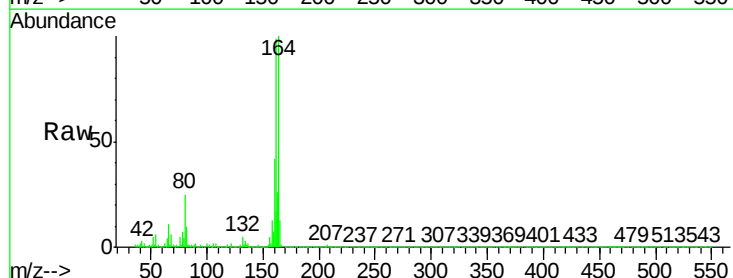
Tgt Ion:164 Resp: 100836

Ion Ratio Lower Upper

164 100

162 98.6 84.4 126.6

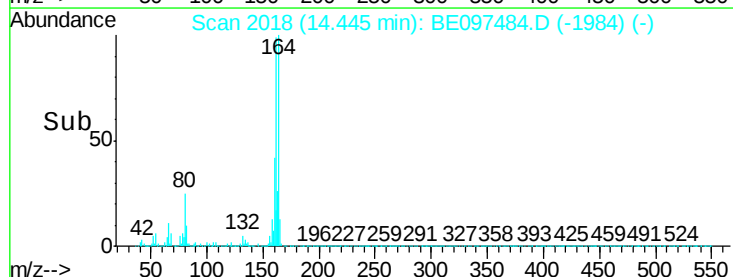
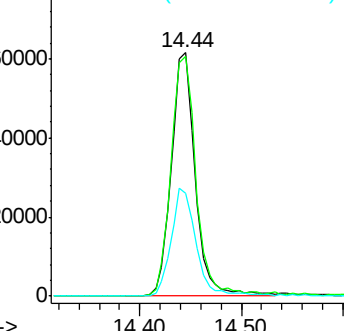
160 42.0 37.7 56.5

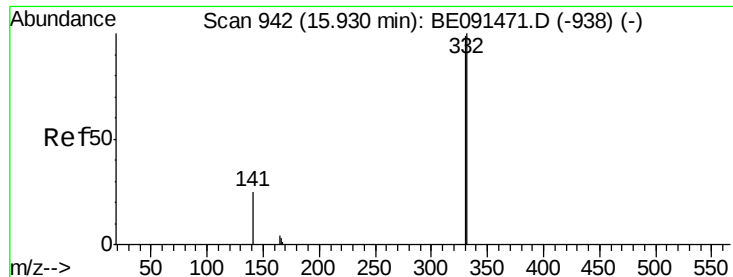


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#11

2,4,6-Tribromophenol

Concen: 5.10 ng

RT: 15.93 min Scan# 2270

Delta R.T. -0.00 min

Lab File: BE097484.D

Acq: 18 Mar 2016 2:33

Instrument :

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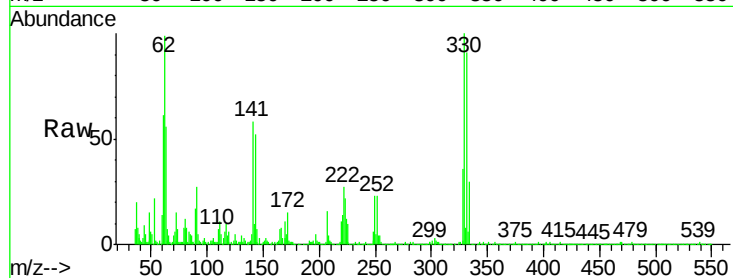
Tgt Ion:330 Resp: 18609

Ion Ratio Lower Upper

330 100

332 97.6 79.2 118.8

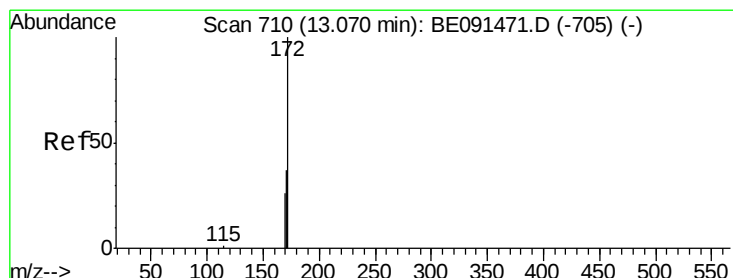
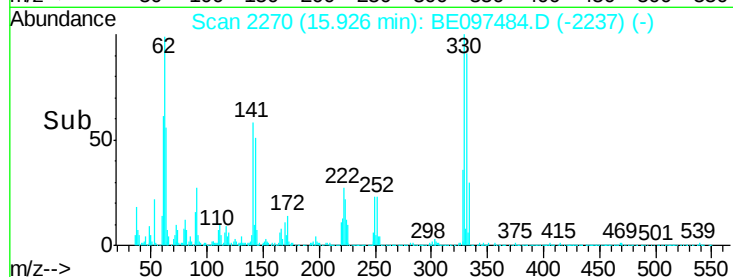
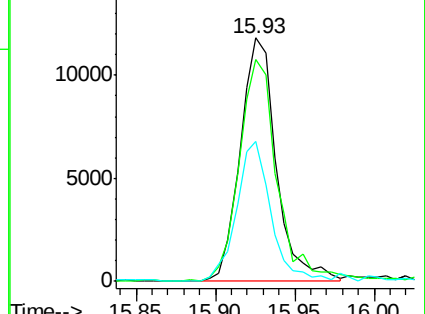
141 54.8 28.1 42.1#



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



#12

2-Fluorobiphenyl

Concen: 4.04 ng

RT: 13.07 min Scan# 1784

Delta R.T. 0.00 min

Lab File: BE097484.D

Acq: 18 Mar 2016 2:33

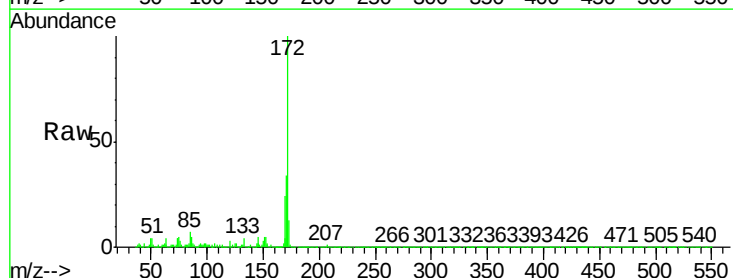
Tgt Ion:172 Resp: 102491

Ion Ratio Lower Upper

172 100

171 34.3 29.8 44.8

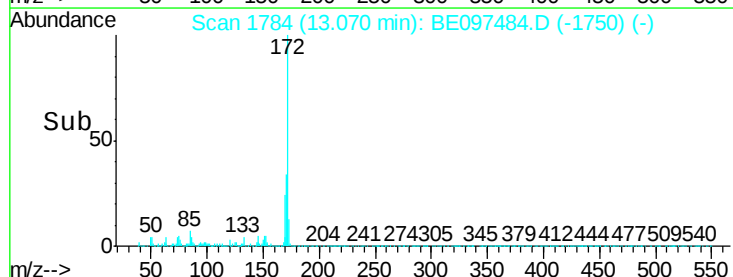
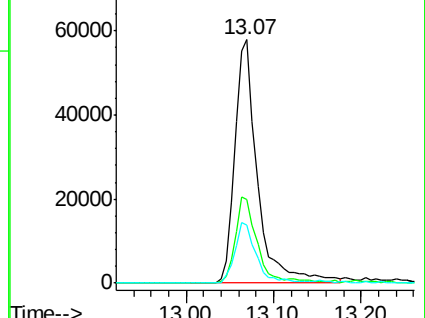
170 23.9 21.4 32.2

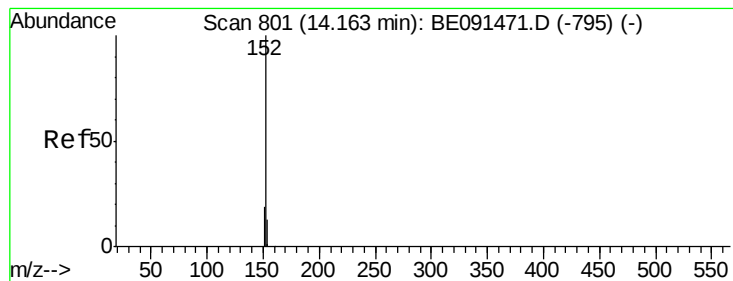


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#13

Acenaphthylene

Concen: 0.16 ng

RT: 14.16 min Scan# 1970

Delta R.T. 0.00 min

Lab File: BE097484.D

Acq: 18 Mar 2016 2:33

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MDL-04-W

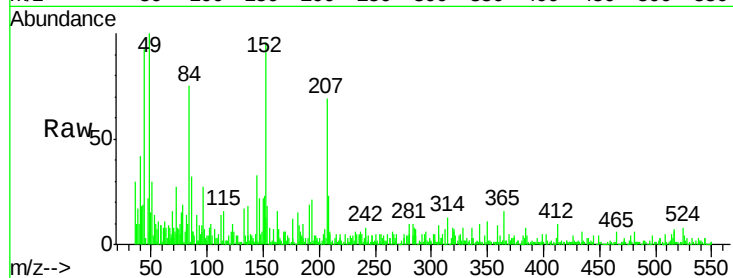
Tgt Ion:152 Resp: 1533

Ion Ratio Lower Upper

152 100

151 20.3 16.3 24.5

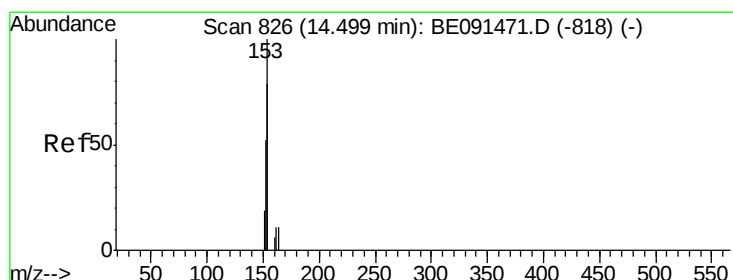
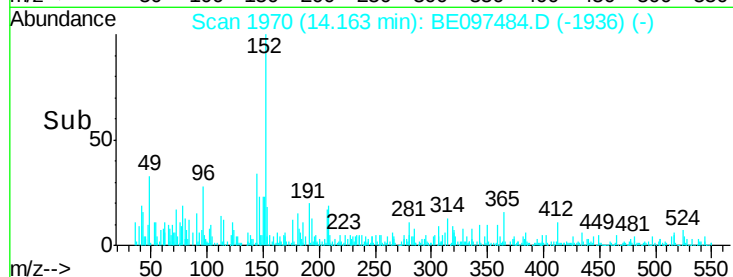
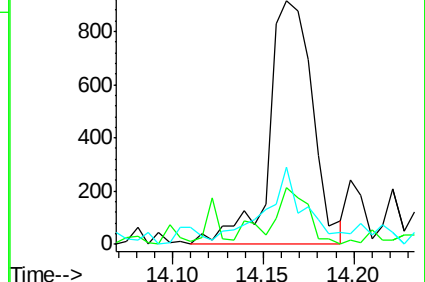
153 29.3 11.1 16.7#



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#14

Acenaphthene

Concen: 0.05 ng

RT: 14.50 min Scan# 2028

Delta R.T. 0.00 min

Lab File: BE097484.D

Acq: 18 Mar 2016 2:33

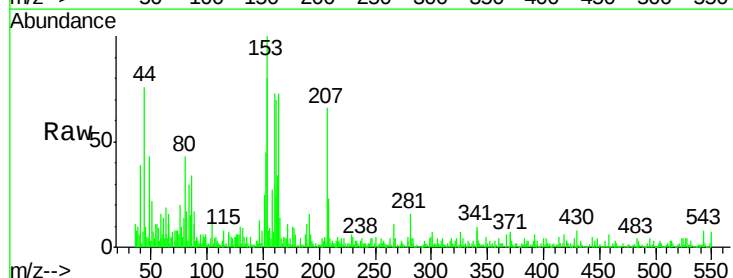
Tgt Ion:154 Resp: 1704

Ion Ratio Lower Upper

154 100

153 117.0 87.3 130.9

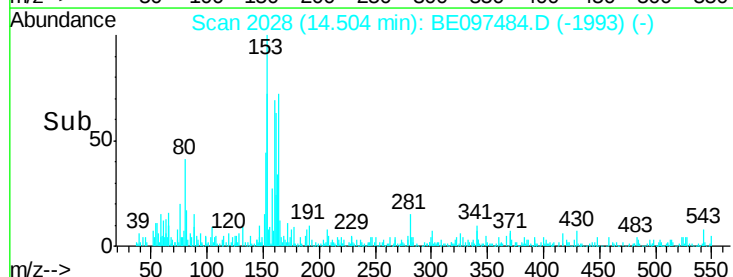
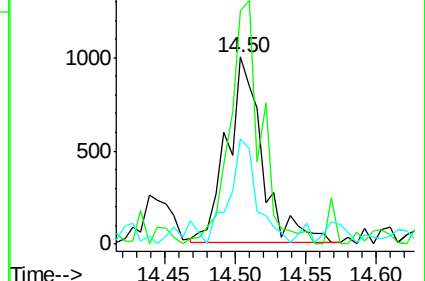
152 45.2 42.9 64.3

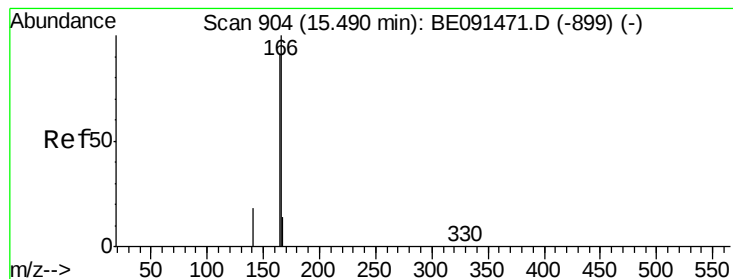


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#15

Fluorene

Concen: 0.05 ng

RT: 15.49 min Scan# 2196

Delta R.T. 0.00 min

Lab File: BE097484.D

Acq: 18 Mar 2016 2:33

Instrument :

BNA_E

ClientSampled :

MDL-04-W

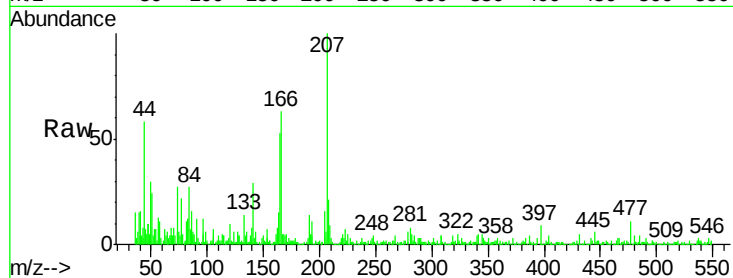
Tgt Ion:166 Resp: 1977

Ion Ratio Lower Upper

166 100

165 109.3 79.2 118.8

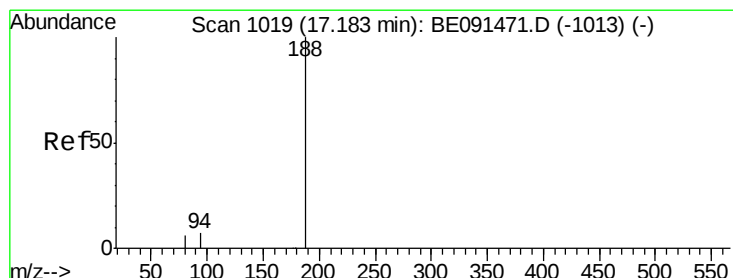
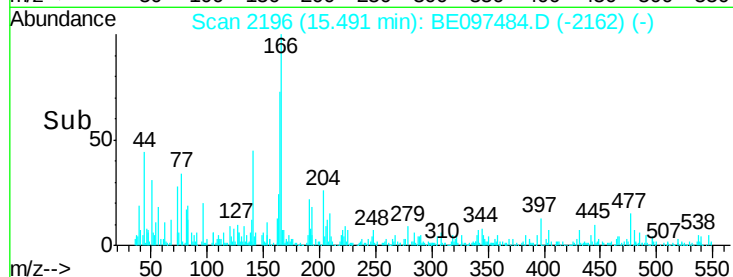
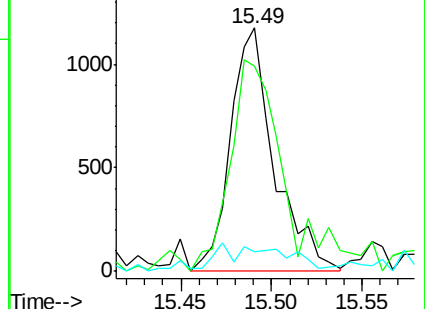
167 10.0 10.8 16.2#



Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#16

Phenanthrene-d10

Concen: 5.00 ng

RT: 17.18 min Scan# 2483

Delta R.T. -0.01 min

Lab File: BE097484.D

Acq: 18 Mar 2016 2:33

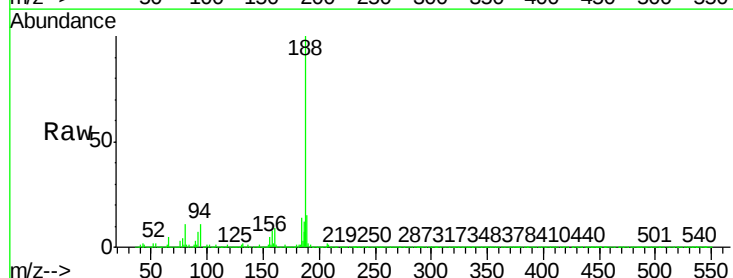
Tgt Ion:188 Resp: 253623

Ion Ratio Lower Upper

188 100

94 11.0 5.4 8.2#

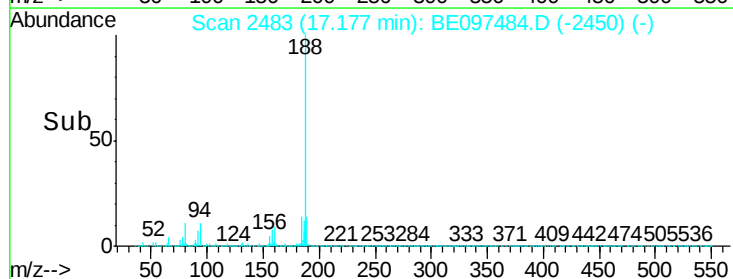
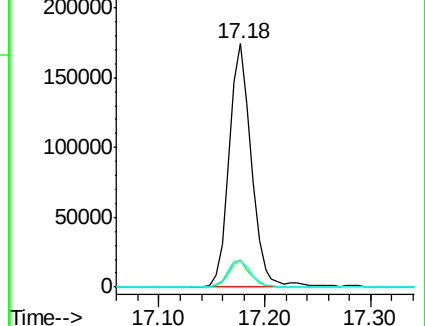
80 10.8 5.0 7.4#

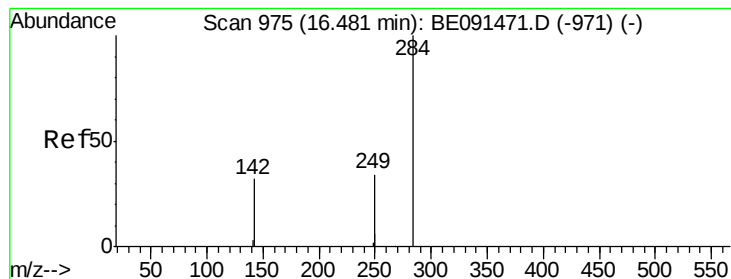


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0





#17

Hexachlorobenzene

Concen: 0.07 ng

RT: 16.48 min Scan# 2365

Delta R.T. 0.00 min

Lab File: BE097484.D

Acq: 18 Mar 2016 2:33

Instrument :

BNA_E

ClientSampleId :

MDL-04-W

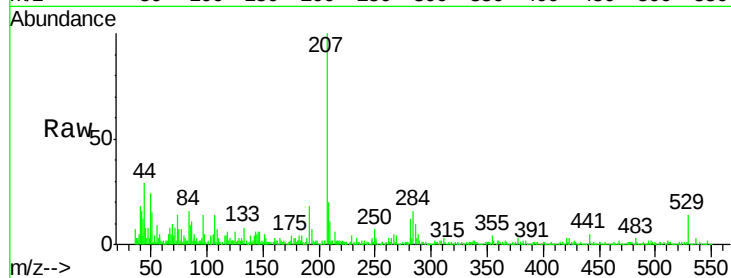
Tgt Ion:284 Resp: 754

Ion Ratio Lower Upper

284 100

142 52.8 31.0 46.4#

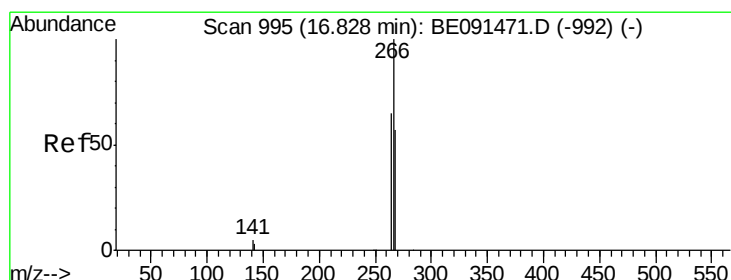
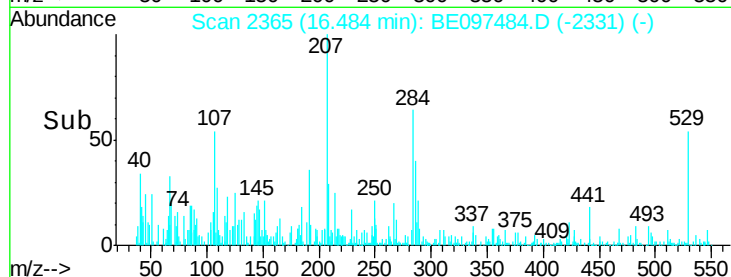
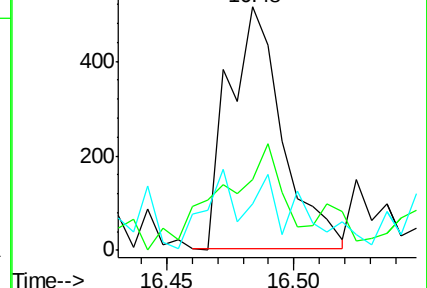
249 22.1 25.8 38.8#



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



#18

Pentachlorophenol

Concen: 0.34 ng

RT: 16.84 min Scan# 2426

Delta R.T. 0.02 min

Lab File: BE097484.D

Acq: 18 Mar 2016 2:33

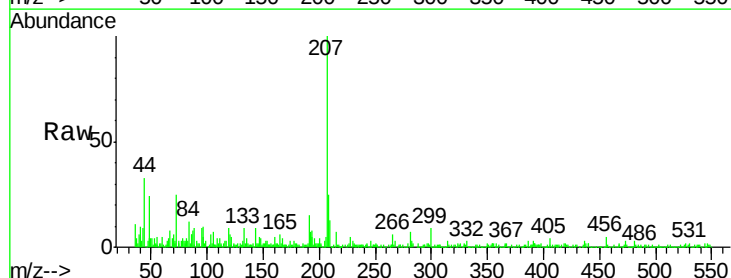
Tgt Ion:266 Resp: 239

Ion Ratio Lower Upper

266 100

268 42.9 48.2 72.2#

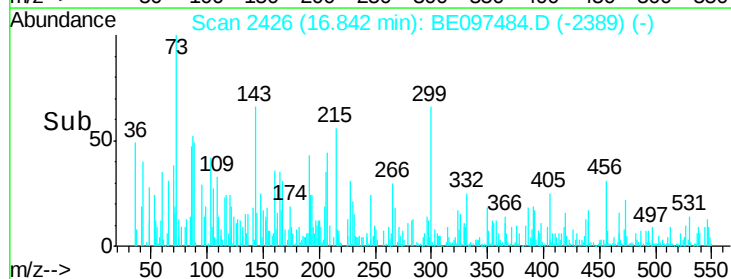
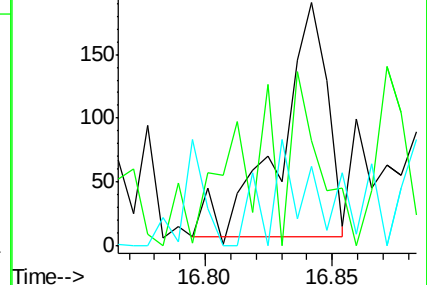
264 32.5 52.1 78.1#

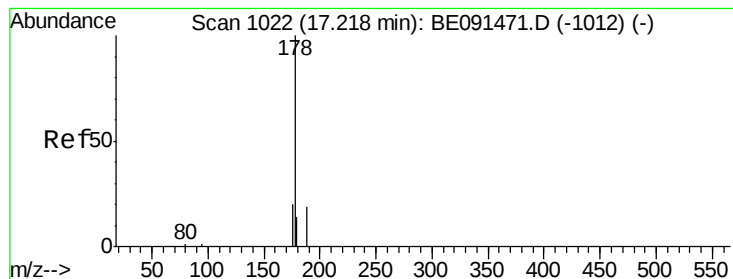


Abundance Ion 265.70 (265.40 to 266.40): E

Ion 268.00 (267.70 to 268.70): E

Ion 264.00 (263.70 to 264.70): E





#19

Phenanthrene

Concen: 0.06 ng

RT: 17.21 min Scan# 2489

Delta R.T. -0.01 min

Lab File: BE097484.D

Acq: 18 Mar 2016 2:33

Instrument :

BNA_E

ClientSampleId :

MDL-04-W

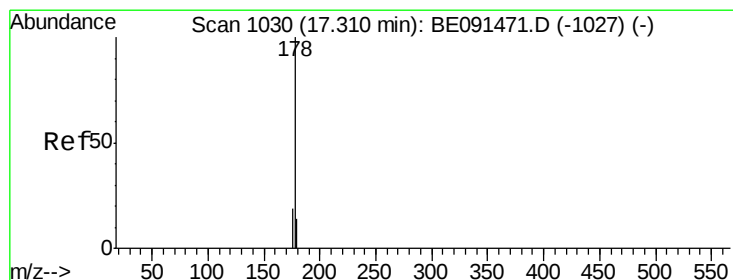
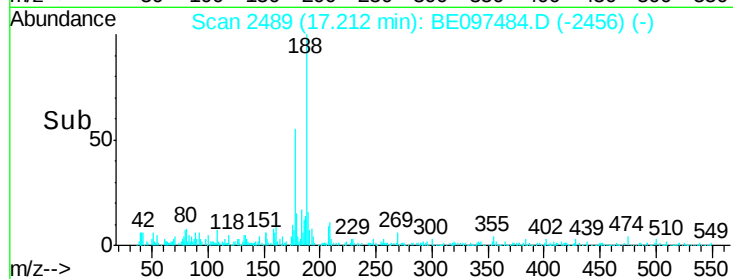
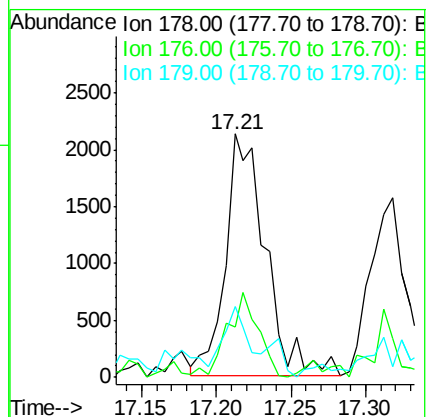
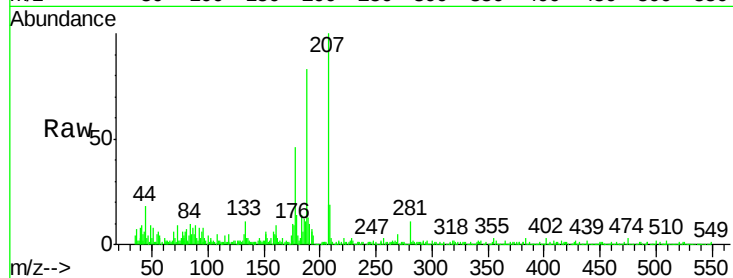
Tgt Ion:178 Resp: 3995

Ion Ratio Lower Upper

178 100

176 27.1 15.5 23.3#

179 15.8 13.1 19.7



#20

Anthracene

Concen: 0.04 ng

RT: 17.32 min Scan# 2507

Delta R.T. 0.01 min

Lab File: BE097484.D

Acq: 18 Mar 2016 2:33

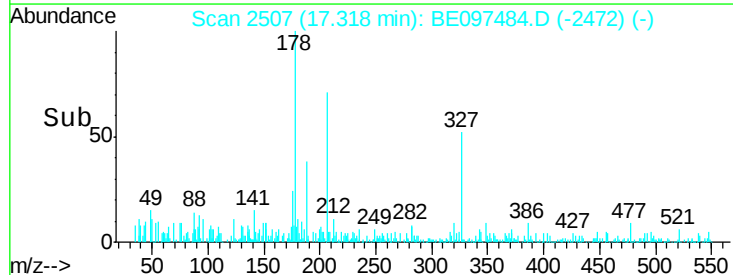
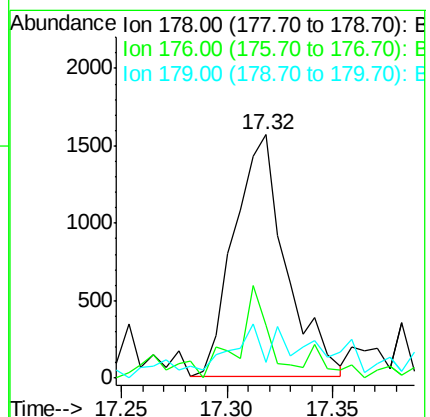
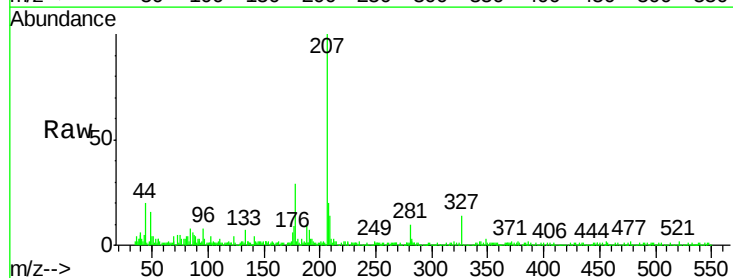
Tgt Ion:178 Resp: 2651

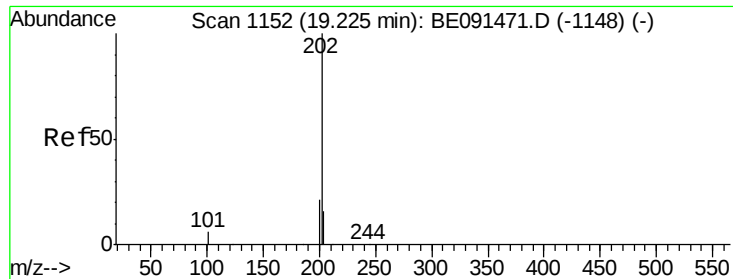
Ion Ratio Lower Upper

178 100

176 22.4 14.9 22.3#

179 9.3 12.2 18.4#





#21

Fluoranthene

Concen: 0.04 ng

RT: 19.23 min Scan# 2833

Delta R.T. 0.01 min

Lab File: BE097484.D

Acq: 18 Mar 2016 2:33

Instrument :

BNA_E

ClientSampleId :

MDL-04-W

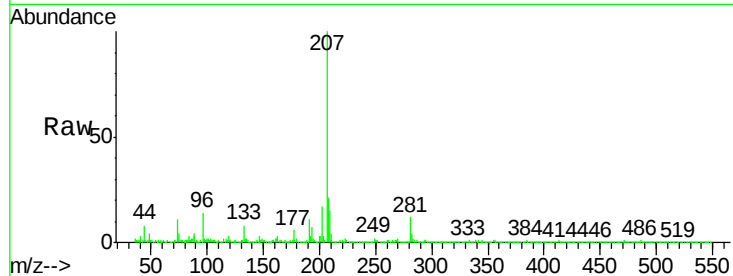
Tgt Ion:202 Resp: 3391

Ion Ratio Lower Upper

202 100

101 16.7 8.3 12.5#

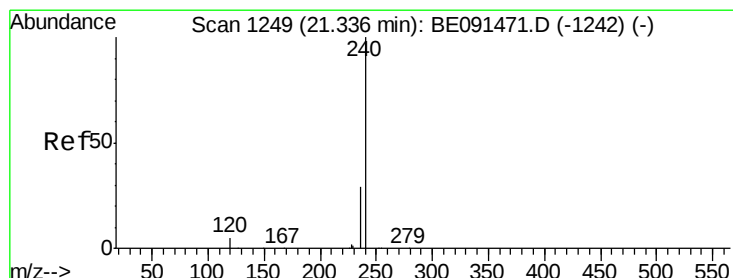
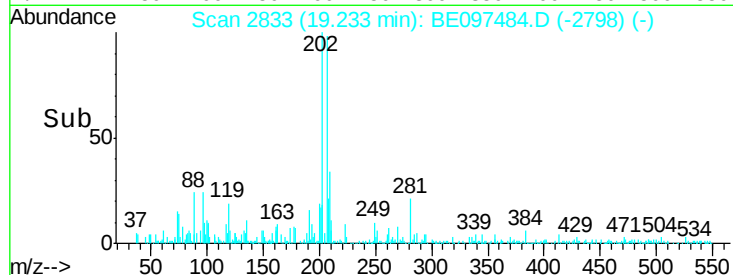
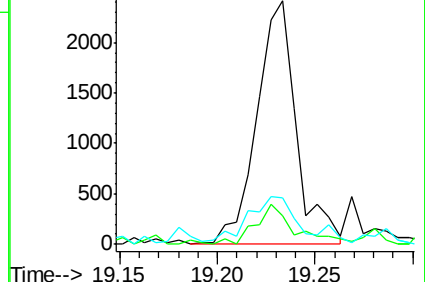
203 21.6 13.9 20.9#



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



#22

Chrysene-d12

Concen: 5.00 ng

RT: 21.34 min Scan# 3192

Delta R.T. 0.01 min

Lab File: BE097484.D

Acq: 18 Mar 2016 2:33

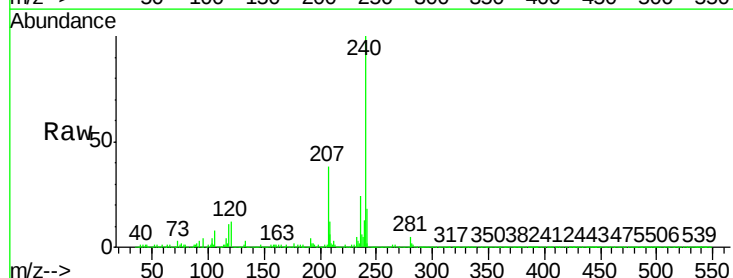
Tgt Ion:240 Resp: 314085

Ion Ratio Lower Upper

240 100

120 11.7 4.0 6.0#

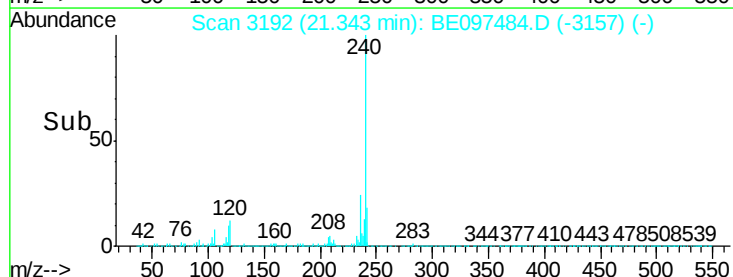
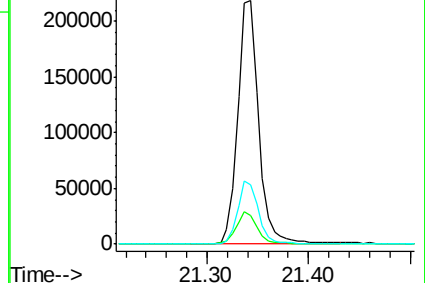
236 24.1 23.0 34.4

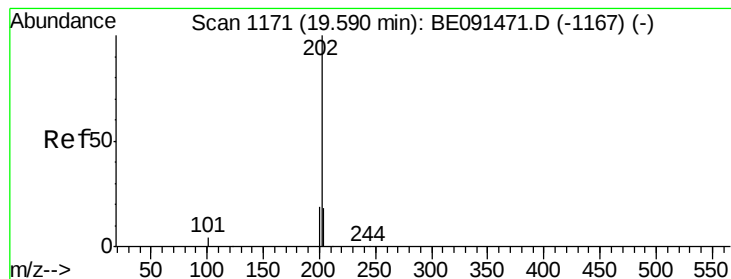


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#23

Pyrene

Concen: 0.05 ng

RT: 19.59 min Scan# 2893

Delta R.T. -0.00 min

Lab File: BE097484.D

Acq: 18 Mar 2016 2:33

Instrument :

BNA_E

ClientSampleId :

MDL-04-W

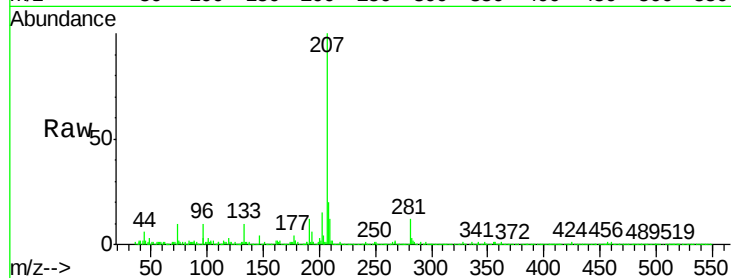
Tgt Ion: 202 Resp: 3895

Ion Ratio Lower Upper

202 100

200 28.4 16.4 24.6#

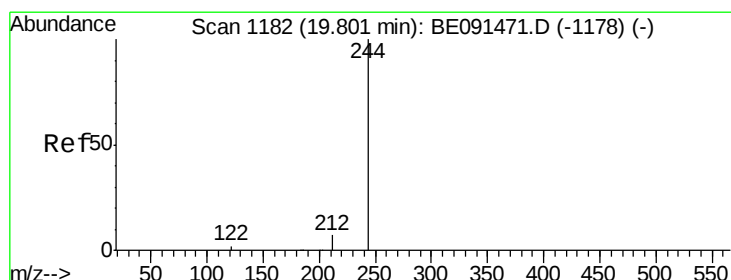
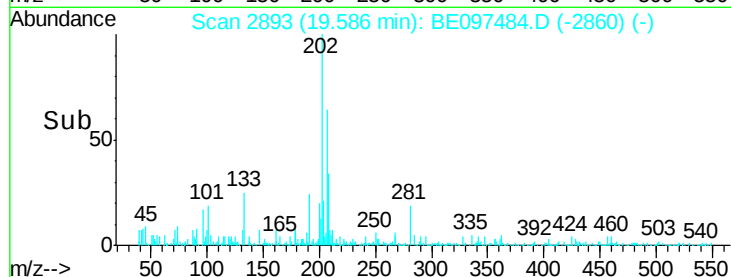
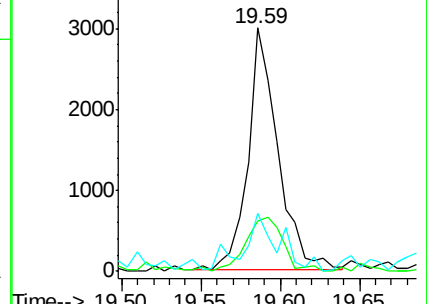
203 22.6 14.6 21.8#



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



#24

Terphenyl-d14

Concen: 4.81 ng

RT: 19.79 min Scan# 2928

Delta R.T. -0.01 min

Lab File: BE097484.D

Acq: 18 Mar 2016 2:33

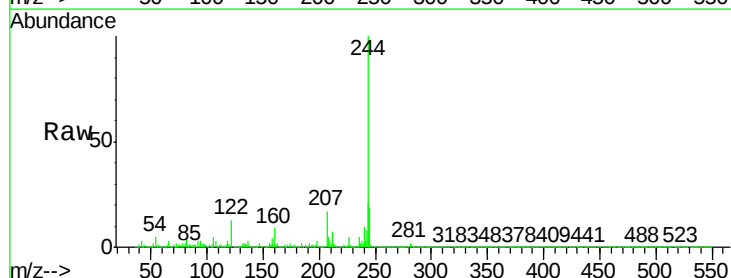
Tgt Ion: 244 Resp: 181606

Ion Ratio Lower Upper

244 100

212 7.3 5.8 8.8

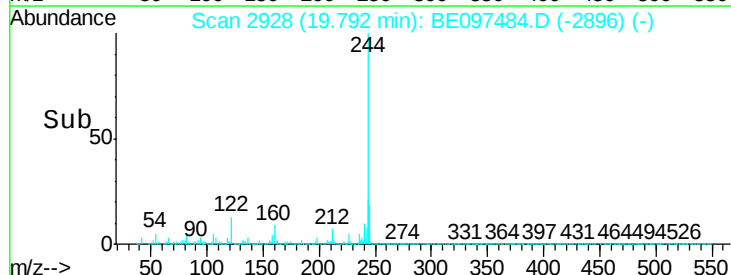
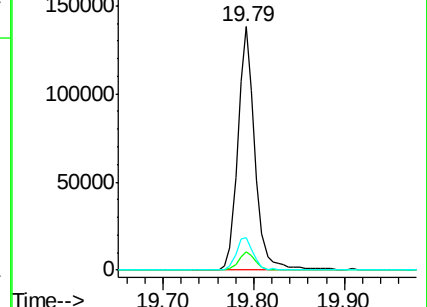
122 13.1 1.8 2.8#

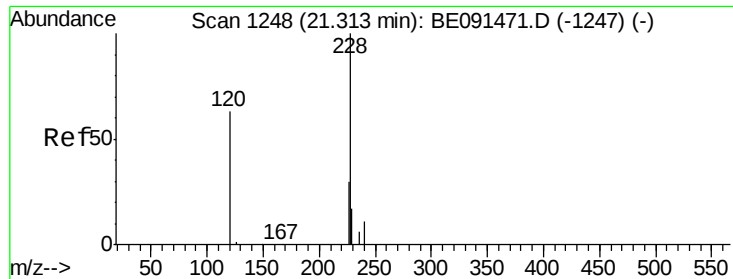


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#25

Benzo(a)anthracene

Concen: 0.06 ng

RT: 21.33 min Scan# 3189

Delta R.T. 0.01 min

Lab File: BE097484.D

Acq: 18 Mar 2016 2:33

Instrument :

BNA_E

ClientSampleId :

MDL-04-W

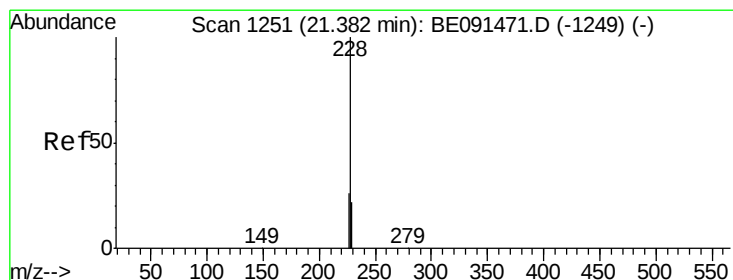
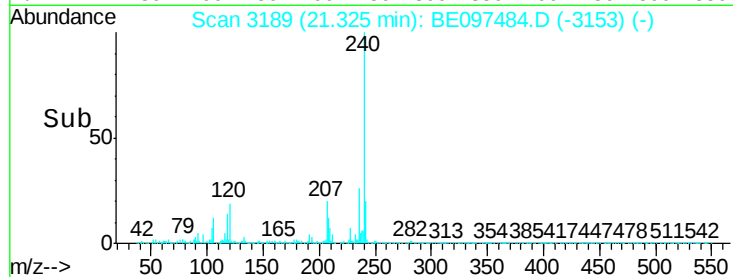
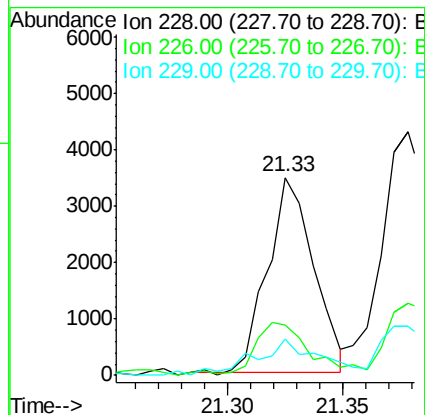
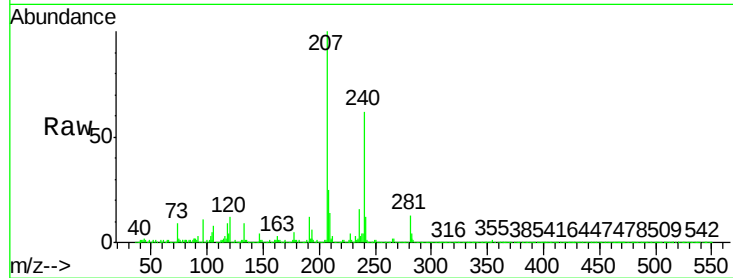
Tgt Ion:228 Resp: 4850

Ion Ratio Lower Upper

228 100

226 25.6 24.0 36.0

229 18.0 13.8 20.6



#26

Chrysene

Concen: Below Cal

RT: 21.38 min Scan# 3198

Delta R.T. -0.00 min

Lab File: BE097484.D

Acq: 18 Mar 2016 2:33

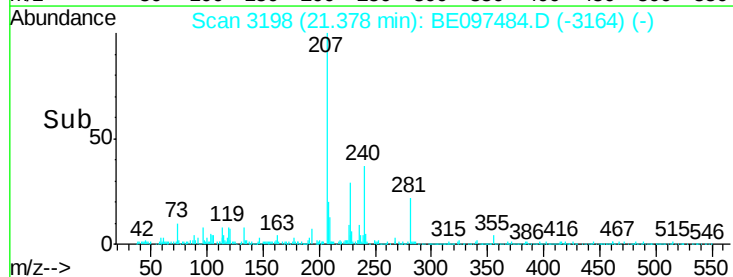
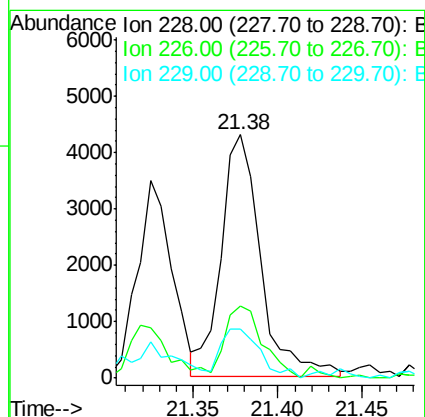
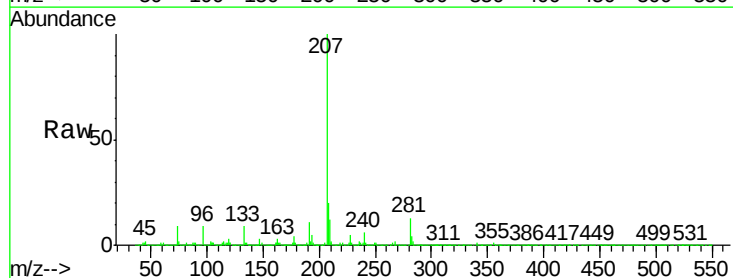
Tgt Ion:228 Resp: 7038

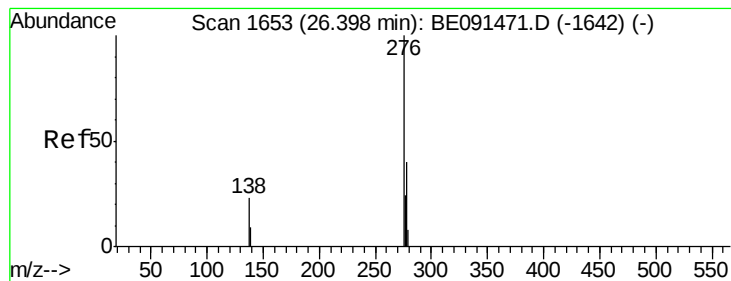
Ion Ratio Lower Upper

228 100

226 29.6 18.9 28.3#

229 20.4 19.1 28.7





#27

Indeno(1,2,3-cd)pyrene

Concen: 0.02 ng

RT: 26.40 min Scan# 4052

Delta R.T. -0.00 min

Lab File: BE097484.D

Acq: 18 Mar 2016 2:33

Instrument :

BNA_E

ClientSampleId :

MDL-04-W

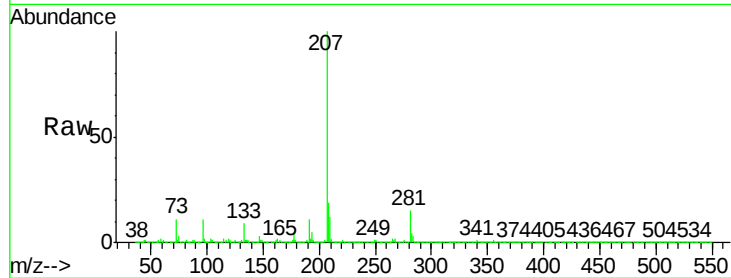
Tgt Ion:276 Resp: 1733

Ion Ratio Lower Upper

276 100

138 54.9 20.2 30.4#

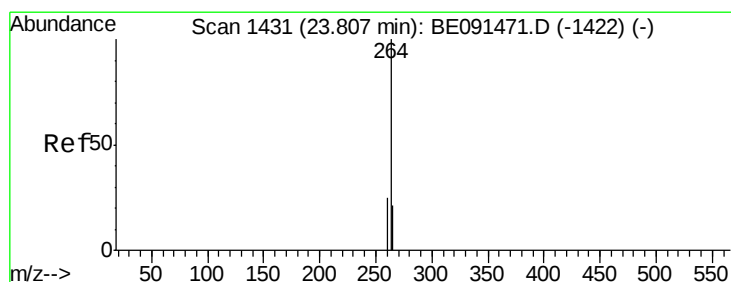
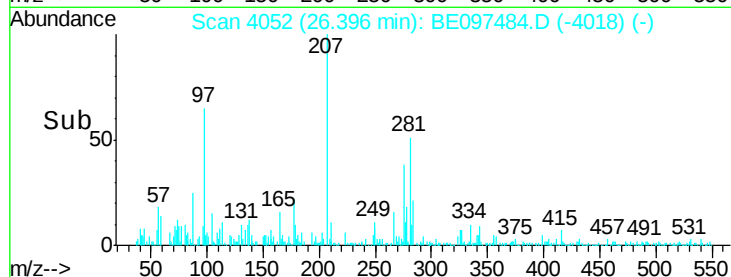
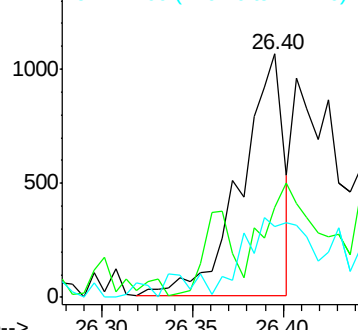
277 45.2 19.8 29.8#



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



#28

Perylene-d12

Concen: 5.00 ng

RT: 23.80 min Scan# 3610

Delta R.T. -0.01 min

Lab File: BE097484.D

Acq: 18 Mar 2016 2:33

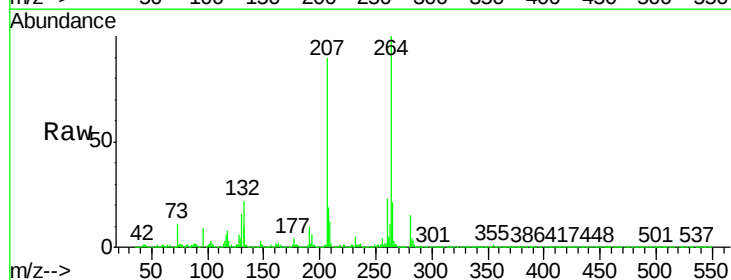
Tgt Ion:264 Resp: 295221

Ion Ratio Lower Upper

264 100

260 23.2 20.1 30.1

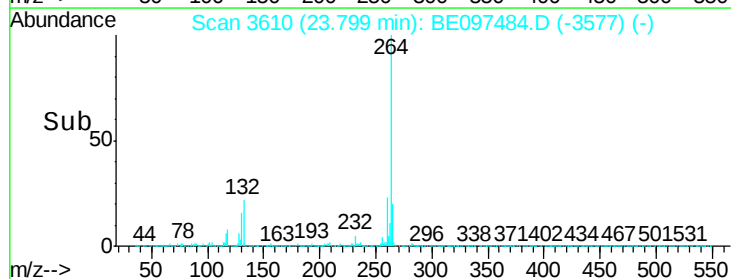
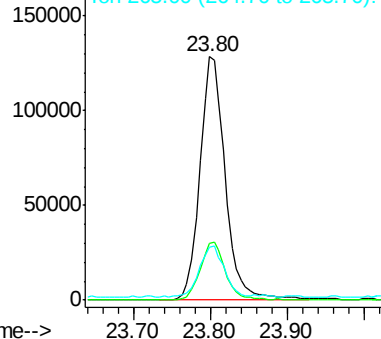
265 21.5 18.3 27.5

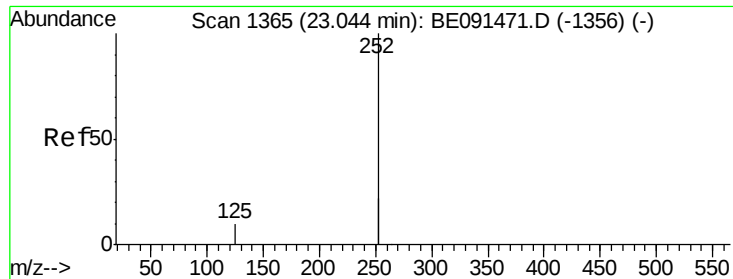


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#29

Benzo(b)fluoranthene

Concen: 0.06 ng

RT: 23.05 min Scan# 3482

Delta R.T. 0.00 min

Lab File: BE097484.D

Acq: 18 Mar 2016 2:33

Instrument :

BNA_E

ClientSampleId :

MDL-04-W

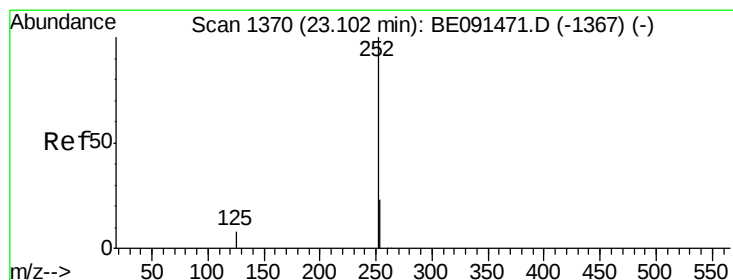
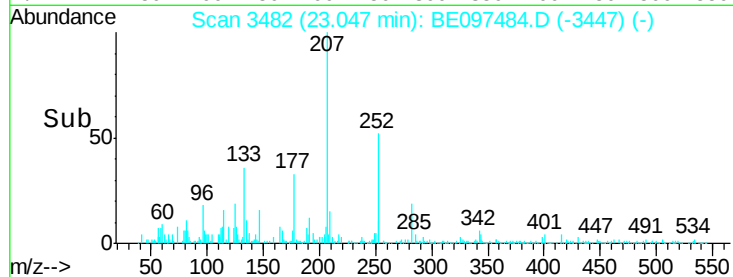
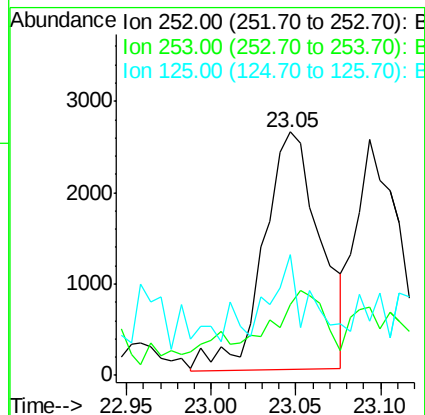
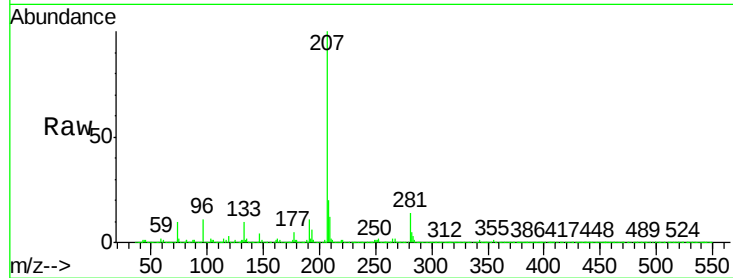
Tgt Ion:252 Resp: 6032

Ion Ratio Lower Upper

252 100

253 29.0 18.7 28.1#

125 49.4 9.8 14.6#



#30

Benzo(k)fluoranthene

Concen: 0.05 ng

RT: 23.09 min Scan# 3490

Delta R.T. -0.01 min

Lab File: BE097484.D

Acq: 18 Mar 2016 2:33

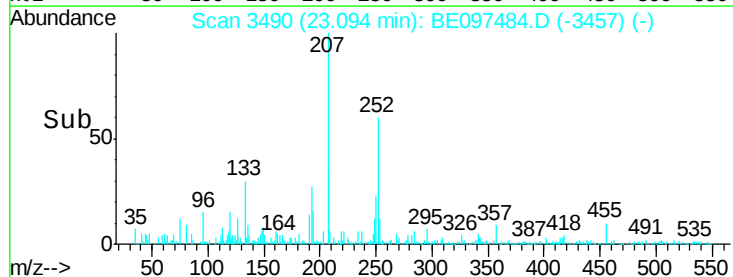
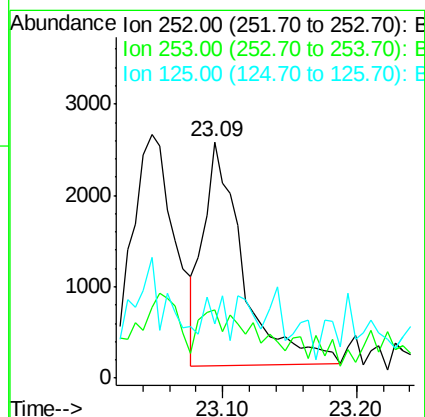
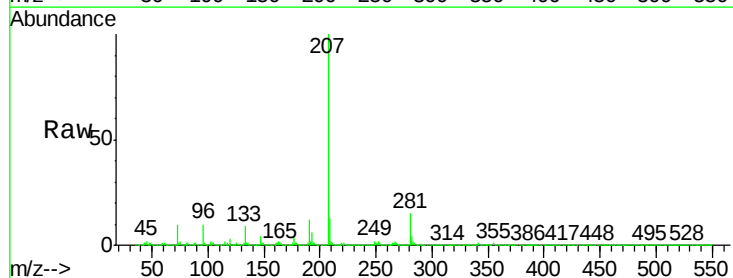
Tgt Ion:252 Resp: 5093

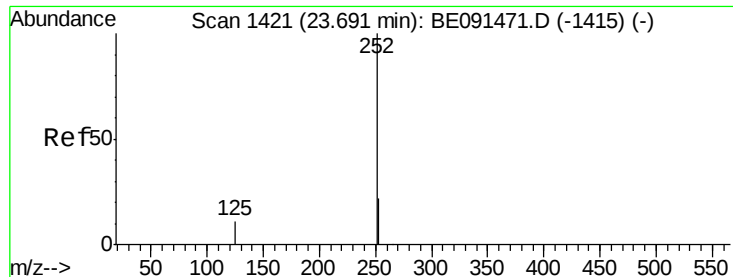
Ion Ratio Lower Upper

252 100

253 28.6 20.2 30.4

125 22.7 9.4 14.2#





#31

Benzo(a)pyrene

Concen: 0.05 ng

RT: 23.69 min Scan# 3592

Delta R.T. 0.00 min

Lab File: BE097484.D

Acq: 18 Mar 2016 2:33

Instrument :

BNA_E

ClientSampleId :

MDL-04-W

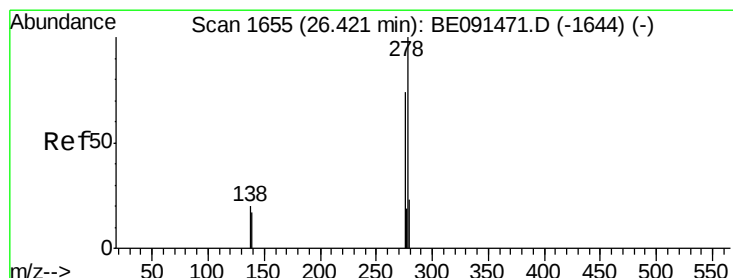
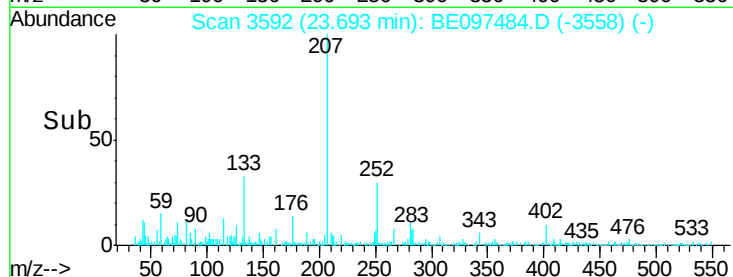
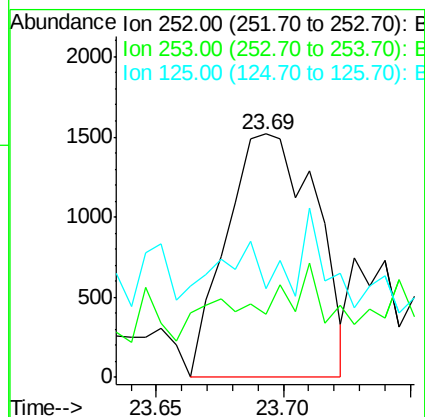
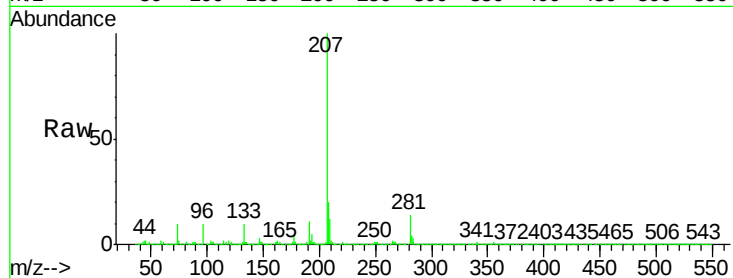
Tgt Ion:252 Resp: 3708

Ion Ratio Lower Upper

252 100

253 25.7 19.4 29.0

125 36.7 11.4 17.2#



#32

Dibenzo(a,h)anthracene

Concen: 0.02 ng

RT: 26.41 min Scan# 4054

Delta R.T. -0.01 min

Lab File: BE097484.D

Acq: 18 Mar 2016 2:33

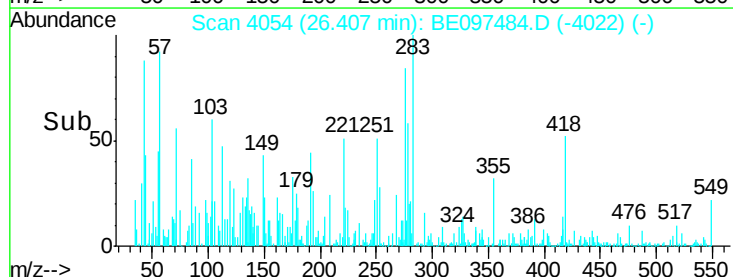
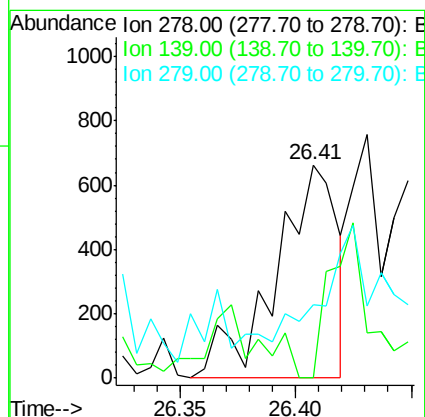
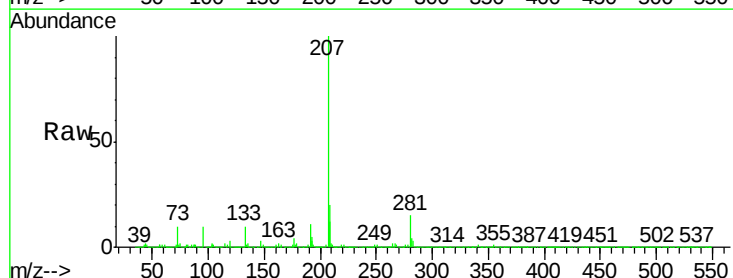
Tgt Ion:278 Resp: 1229

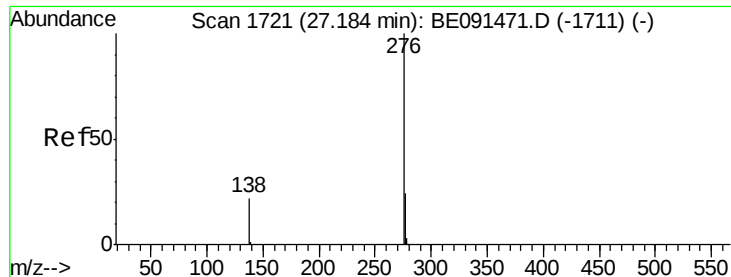
Ion Ratio Lower Upper

278 100

139 10.0 14.2 21.4#

279 34.1 19.6 29.4#





#33

Benzo(g,h,i)perylene

Concen: 0.02 ng

RT: 27.19 min Scan# 4188

Delta R.T. 0.01 min

Lab File: BE097484.D

Acq: 18 Mar 2016 2:33

Instrument :

BNA_E

ClientSampleId :

MDL-04-W

Tgt Ion: 276 Resp: 2022

Ion Ratio Lower Upper

276 100

277 18.7 19.4 29.2#

138 73.2 18.2 27.4#

