

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE031816\
 Data File : BE097478.D
 Acq On : 17 Mar 2016 22:52
 Operator : UM/SJ
 Sample : MDL-01-W
 Misc : 0.08PPM
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 MDL-06-W

Quant Time: Mar 18 04:55:04 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	39536	5.00	ng	0.00
6) Naphthalene-d8	10.61	136	173323	5.00	ng	0.00
10) Acenaphthene-d10	14.44	164	104658	5.00	ng	0.00
16) Phenanthrene-d10	17.18	188	269821	5.00	ng	0.00
22) Chrysene-d12	21.34	240	333759	5.00	ng	0.00
28) Perylene-d12	23.80	264	316171	5.00	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.42	112	76041	8.37	ng	0.00
5) Phenol-d6	6.99	99	92936	7.84	ng	0.00
7) Nitrobenzene-d5	8.98	82	35773	3.82	ng	0.00
11) 2,4,6-Tribromophenol	15.93	330	22884	5.99	ng	0.00
12) 2-Fluorobiphenyl	13.07	172	113381	4.30	ng	0.00
24) Terphenyl-d14	19.79	244	220534	5.49	ng	0.00

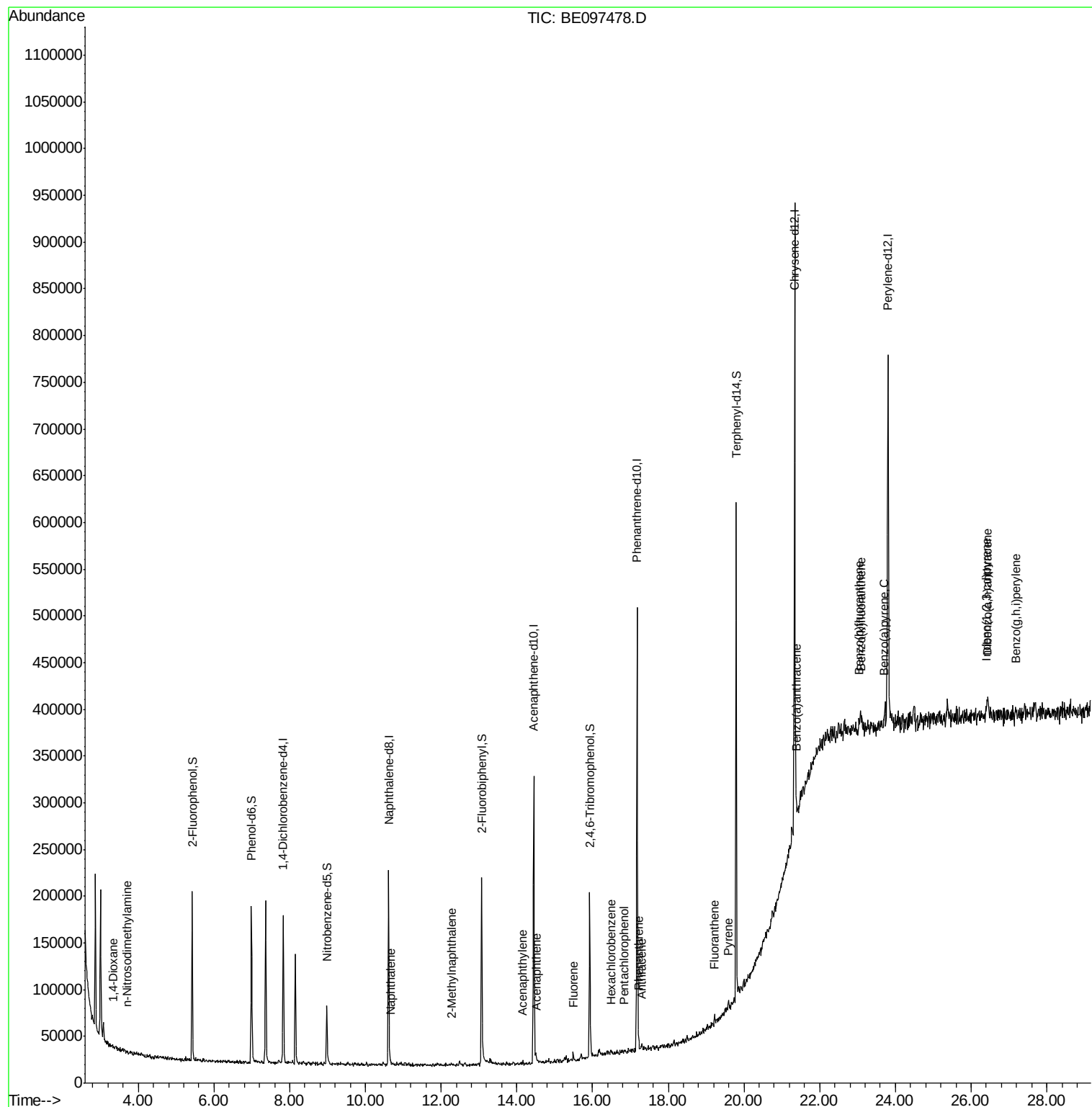
Target Compounds						Qvalue
2) 1,4-Dioxane	3.35	88	203	0.04	ng	# 1
3) n-Nitrosodimethylamine	3.69	42	275	0.04	ng	# 97
8) Naphthalene	10.66	128	2859	0.07	ng	# 91
9) 2-Methylnaphthalene	12.29	142	1446	0.05	ng	# 35
13) Acenaphthylene	14.17	152	2091	0.17	ng	95
14) Acenaphthene	14.51	154	1905	0.06	ng	90
15) Fluorene	15.48	166	2285	0.06	ng	# 84
17) Hexachlorobenzene	16.48	284	708	0.06	ng	# 75
18) Pentachlorophenol	16.84	266	589	0.39	ng	# 66
19) Phenanthrene	17.22	178	5101	0.07	ng	# 89
20) Anthracene	17.31	178	3476	0.05	ng	# 88
21) Fluoranthene	19.23	202	4460	0.05	ng	# 74
23) Pyrene	19.59	202	4538	0.05	ng	# 83
25) Benzo(a)anthracene	21.38	228	8215	0.09	ng	92
26) Chrysene	21.38	228	8215	Below Cal		# 90
27) Indeno(1,2,3-cd)pyrene	26.40	276	1936	0.02	ng	# 32
29) Benzo(b)fluoranthene	23.05	252	6169	0.06	ng	# 84
30) Benzo(k)fluoranthene	23.10	252	5917	0.06	ng	# 74
31) Benzo(a)pyrene	23.70	252	5180	0.06	ng	# 70
32) Dibenzo(a,h)anthracene	26.42	278	3851	0.04	ng	96
33) Benzo(g,h,i)perylene	27.19	276	3539	0.04	ng	# 86

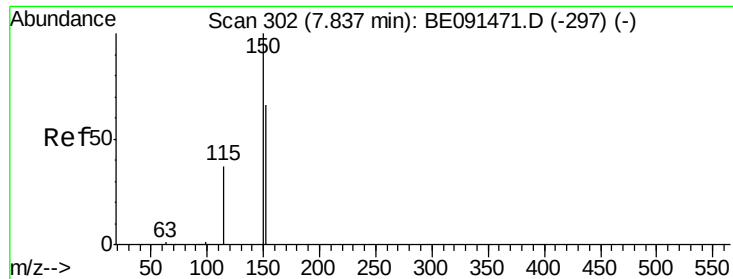
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: BE097478.D

Acq: 17 Mar 2016 22:52

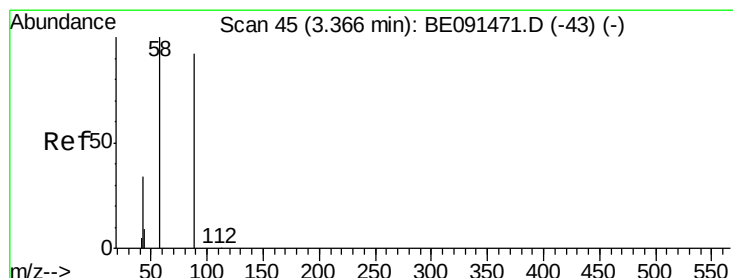
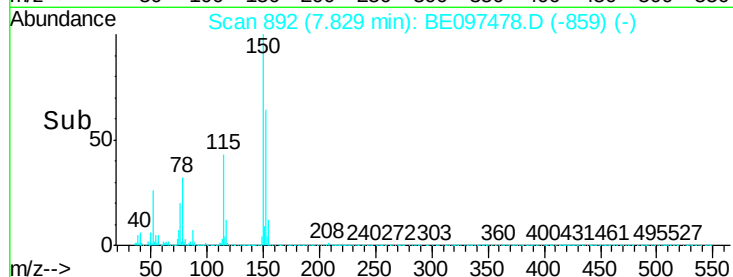
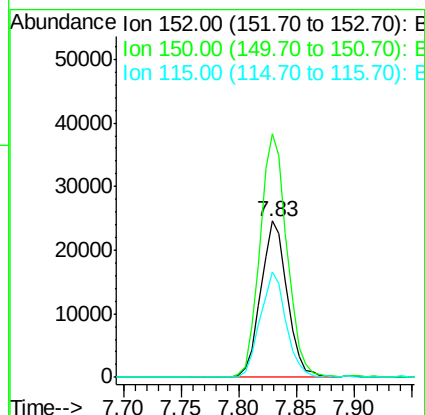
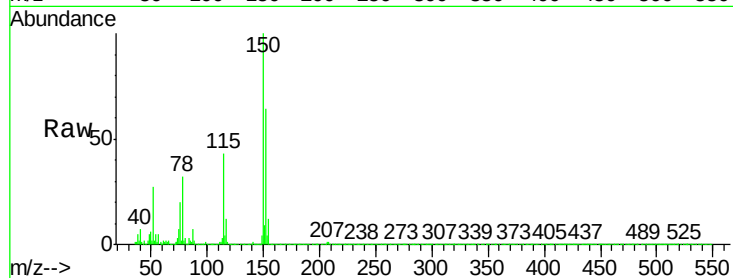
Instrument :

BNA_E

ClientSampleId :

MDL-06-W

Tgt Ion:	152	Resp:	39536
Ion	Ratio	Lower	Upper
152	100		
150	156.1	122.2	183.2
115	67.4	45.9	68.9



#2

1,4-Dioxane

Concen: 0.04 ng

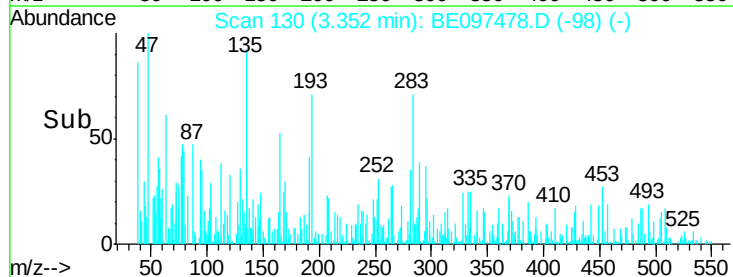
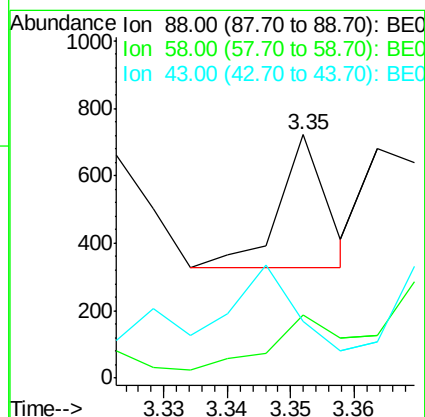
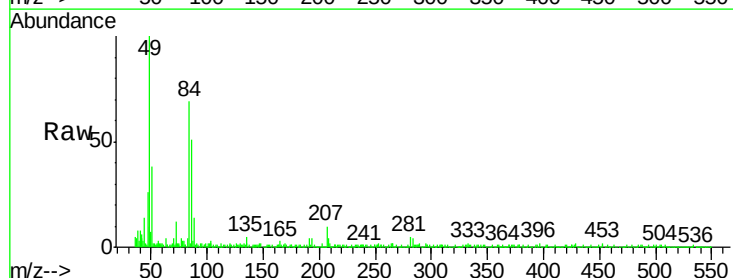
RT: 3.35 min Scan# 130

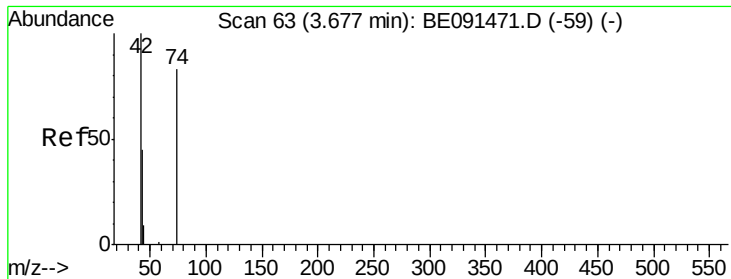
Delta R.T. -0.01 min

Lab File: BE097478.D

Acq: 17 Mar 2016 22:52

Tgt Ion:	88	Resp:	203
Ion	Ratio	Lower	Upper
88	100		
58	0.0	61.0	91.6#
43	130.5	25.4	38.2#





#3

n-Nitrosodimethylamine

Concen: 0.04 ng

RT: 3.69 min Scan# 188

Delta R.T. 0.02 min

Lab File: BE097478.D

Acq: 17 Mar 2016 22:52

Instrument :

BNA_E

ClientSampleId :

MDL-06-W

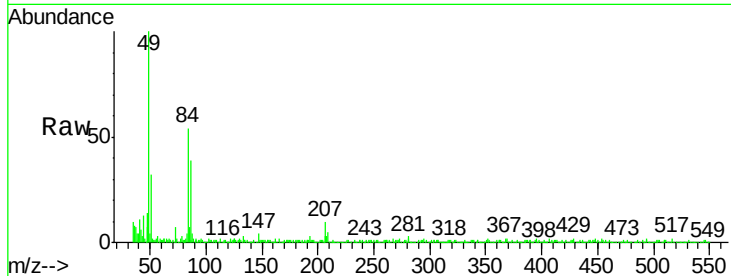
Tgt Ion: 42 Resp: 275

Ion Ratio Lower Upper

42 100

74 107.3 84.3 126.5

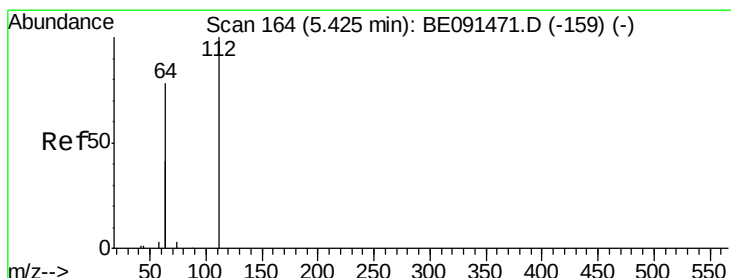
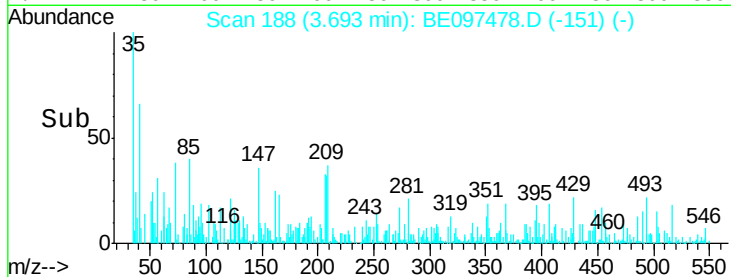
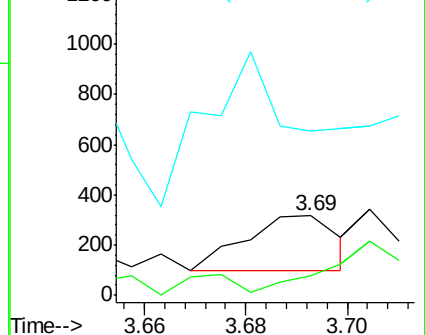
44 0.0 6.7 10.1#



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: 8.37 ng

RT: 5.42 min Scan# 482

Delta R.T. -0.00 min

Lab File: BE097478.D

Acq: 17 Mar 2016 22:52

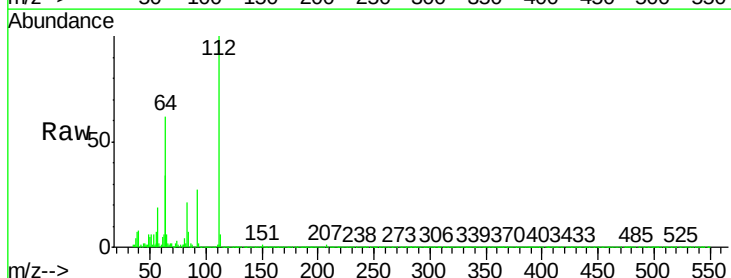
Tgt Ion: 112 Resp: 76041

Ion Ratio Lower Upper

112 100

64 60.1 53.3 79.9

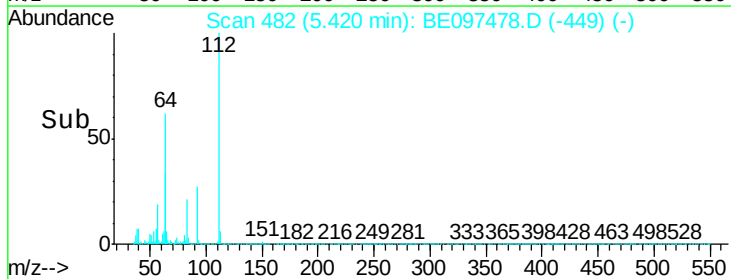
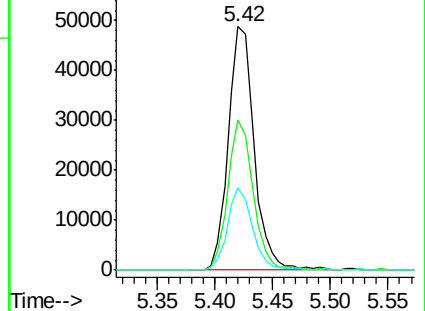
63 32.8 29.8 44.8

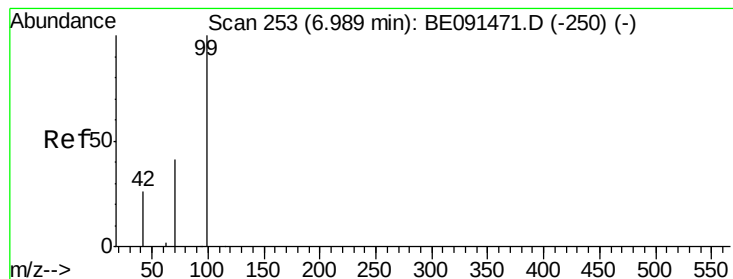


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 7.84 ng

RT: 6.99 min Scan# 749

Delta R.T. -0.00 min

Lab File: BE097478.D

Acq: 17 Mar 2016 22:52

Instrument :

BNA_E

ClientSampleId :

MDL-06-W

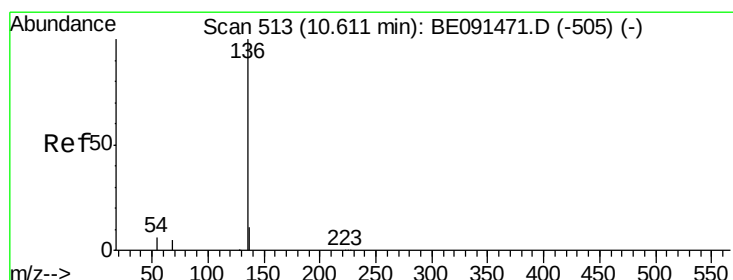
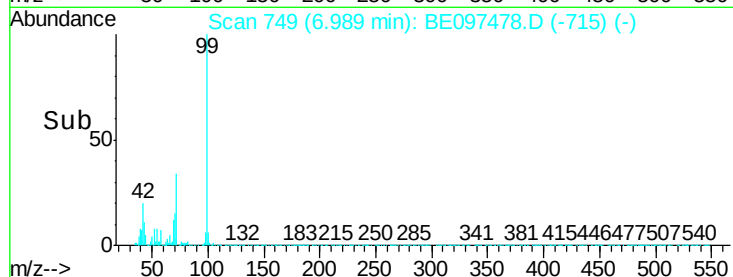
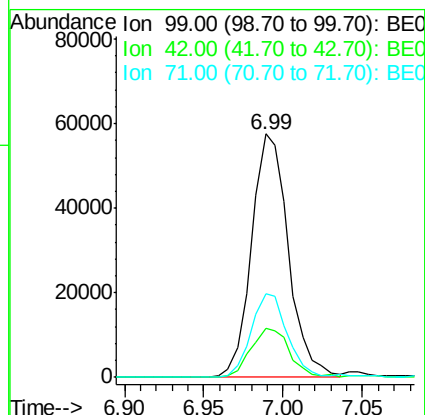
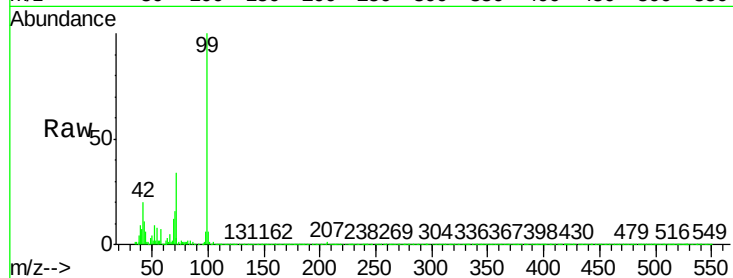
Tgt Ion: 99 Resp: 92936

Ion Ratio Lower Upper

99 100

42 21.5 20.6 30.8

71 34.4 29.0 43.4



#6

Naphthalene-d8

Concen: 5.00 ng

RT: 10.61 min Scan# 1366

Delta R.T. 0.00 min

Lab File: BE097478.D

Acq: 17 Mar 2016 22:52

Tgt Ion: 136 Resp: 173323

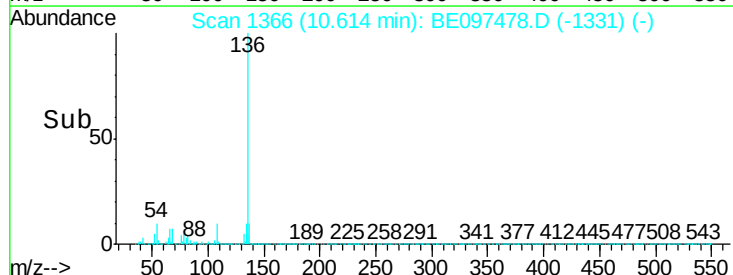
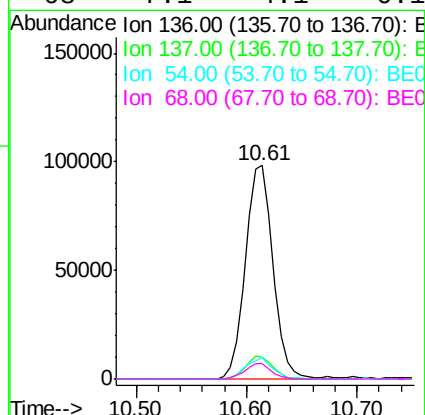
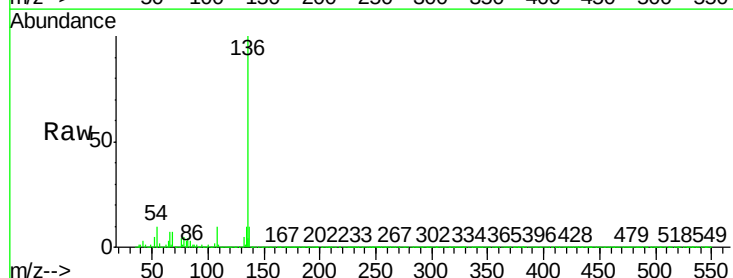
Ion Ratio Lower Upper

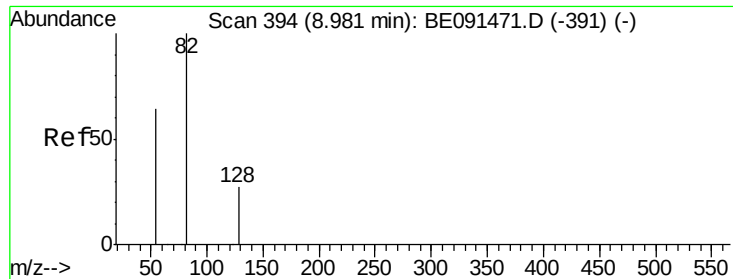
136 100

137 10.3 8.8 13.2

54 10.2 5.2 7.8#

68 7.1 4.1 6.1#





#7

Nitrobenzene-d5

Concen: 3.82 ng

RT: 8.98 min Scan# 1088

Delta R.T. 0.00 min

Lab File: BE097478.D

Acq: 17 Mar 2016 22:52

Instrument :

BNA_E

ClientSampleId :

MDL-06-W

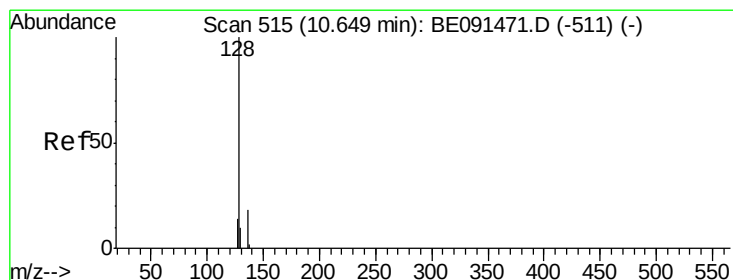
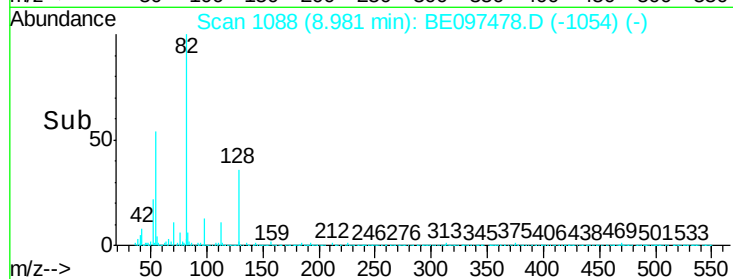
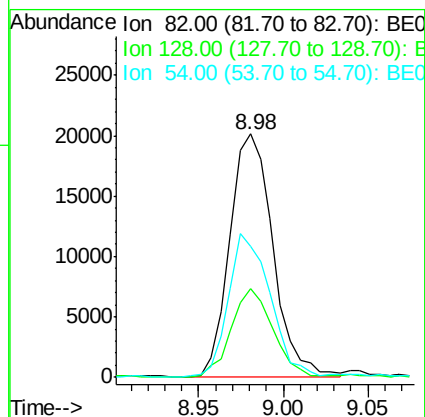
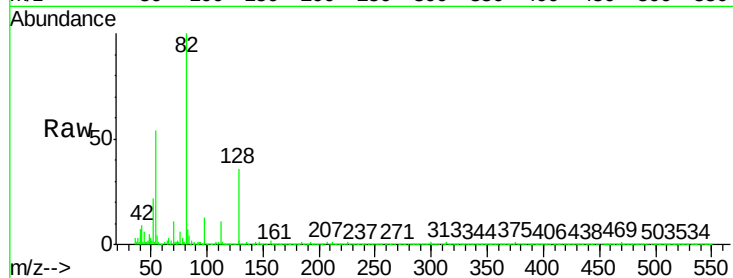
Tgt Ion: 82 Resp: 35773

Ion Ratio Lower Upper

82 100

128 36.2 23.5 35.3#

54 53.9 52.4 78.6



#8

Naphthalene

Concen: 0.07 ng

RT: 10.66 min Scan# 1374

Delta R.T. 0.01 min

Lab File: BE097478.D

Acq: 17 Mar 2016 22:52

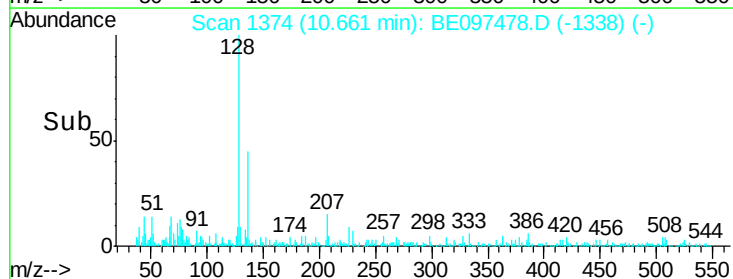
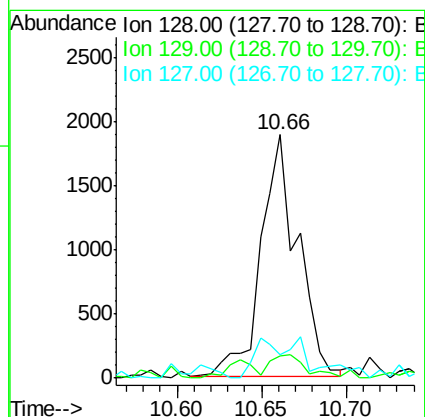
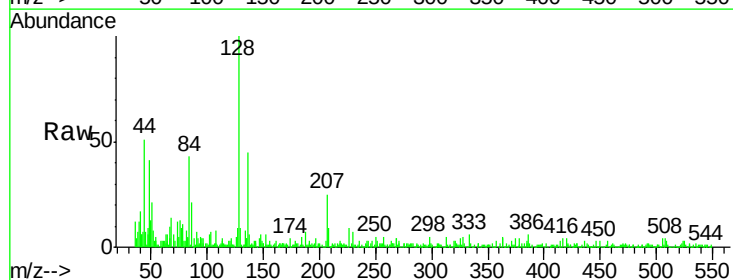
Tgt Ion: 128 Resp: 2859

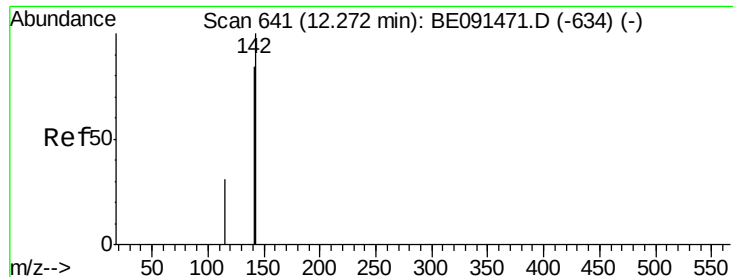
Ion Ratio Lower Upper

128 100

129 9.1 8.2 12.2

127 9.4 11.8 17.8#





#9

2-Methylnaphthalene

Concen: 0.05 ng

RT: 12.29 min Scan# 1651

Delta R.T. 0.02 min

Lab File: BE097478.D

Acq: 17 Mar 2016 22:52

Instrument :

BNA_E

ClientSampleId :

MDL-06-W

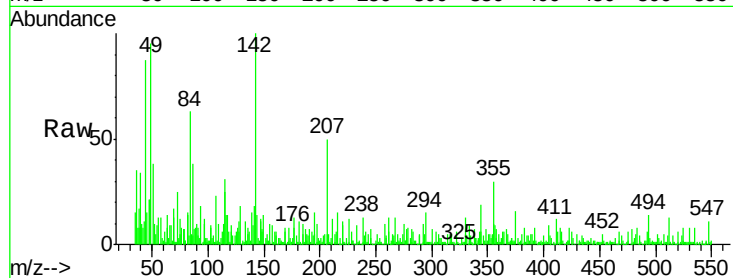
Tgt Ion:142 Resp: 1446

Ion Ratio Lower Upper

142 100

141 18.3 66.9 100.3#

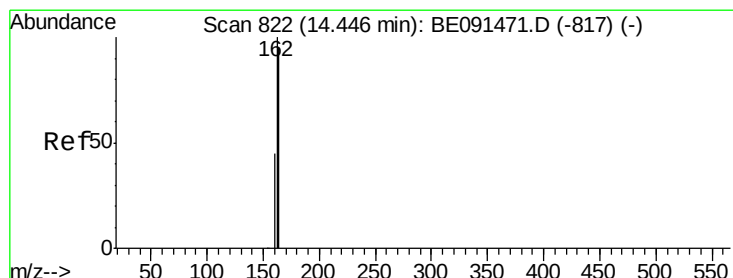
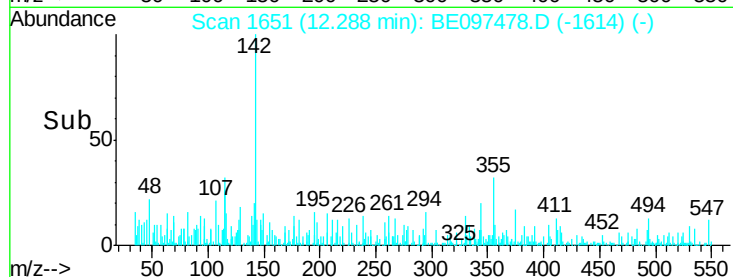
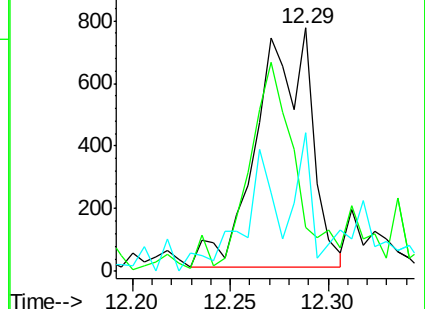
115 56.9 25.1 37.7#



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: BE097478.D

Acq: 17 Mar 2016 22:52

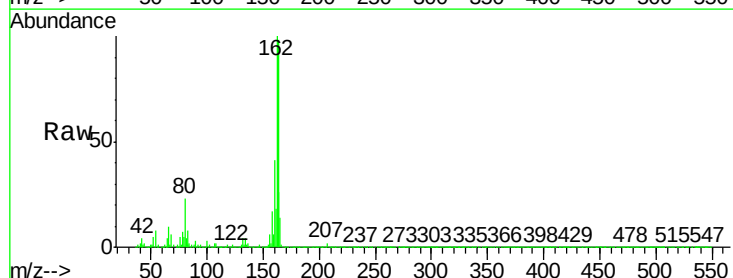
Tgt Ion:164 Resp: 104658

Ion Ratio Lower Upper

164 100

162 102.1 84.4 126.6

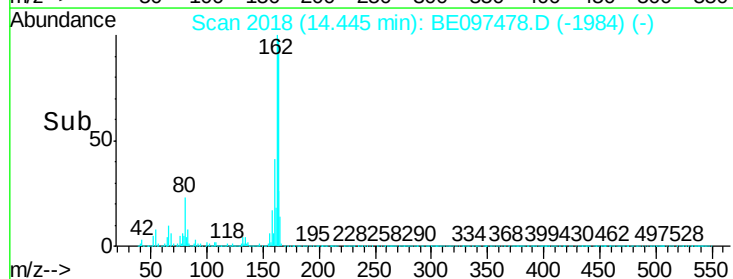
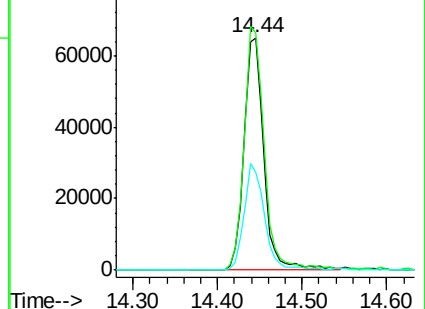
160 42.1 37.7 56.5

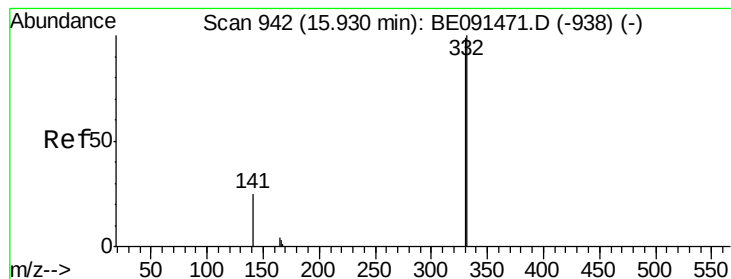


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

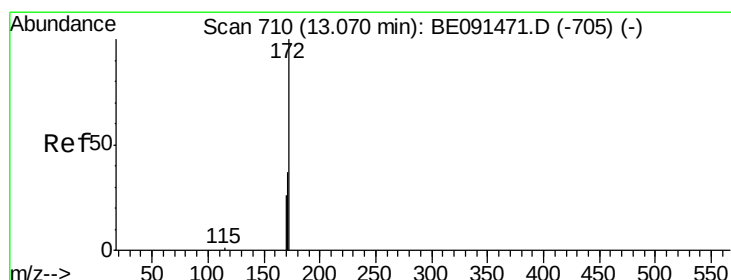
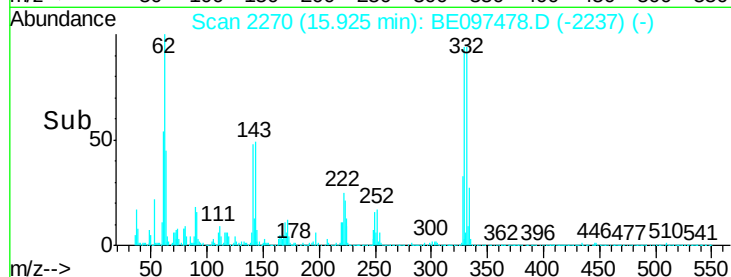
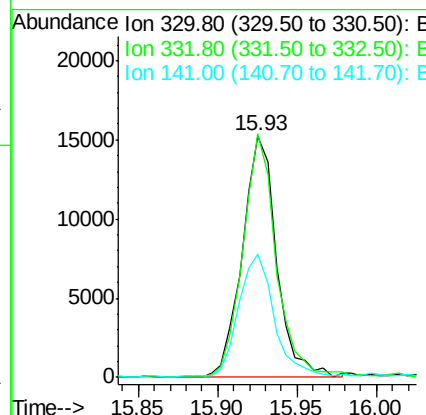
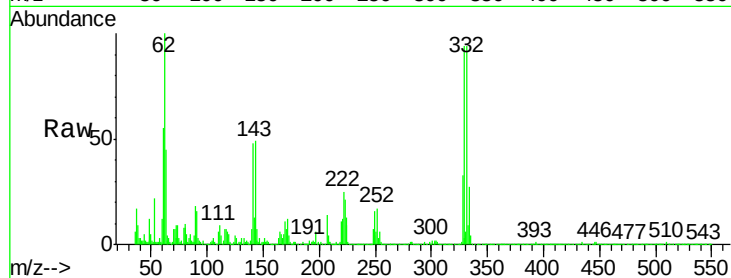




#11
 2,4,6-Tribromophenol
 Concen: 5.99 ng
 RT: 15.93 min Scan# 2270
 Delta R.T. -0.00 min
 Lab File: BE097478.D
 Acq: 17 Mar 2016 22:52

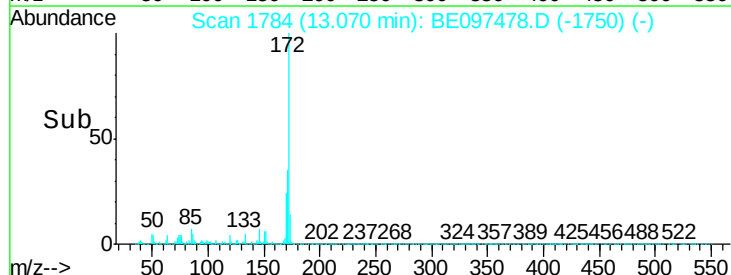
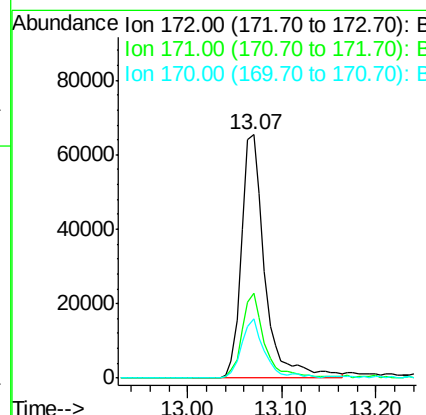
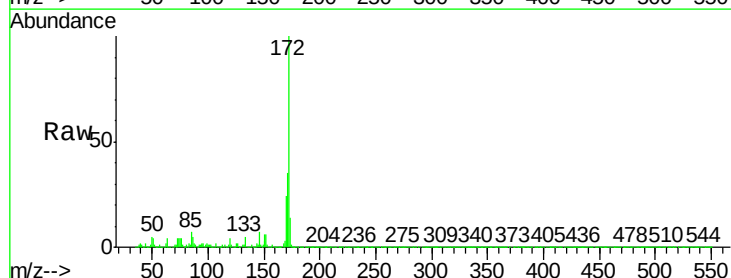
Instrument :
 BNA_E
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 MDL-06-W

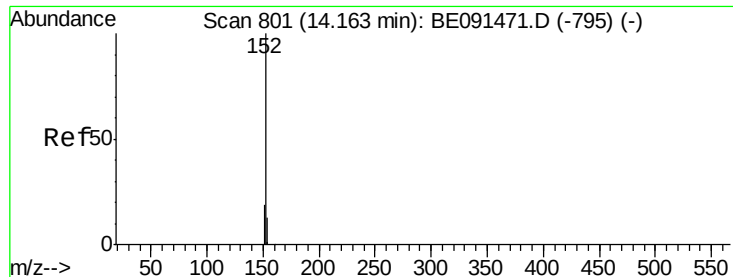
Tgt Ion:330 Resp: 22884
 Ion Ratio Lower Upper
 330 100
 332 98.6 79.2 118.8
 141 53.0 28.1 42.1#



#12
 2-Fluorobiphenyl
 Concen: 4.30 ng
 RT: 13.07 min Scan# 1784
 Delta R.T. 0.00 min
 Lab File: BE097478.D
 Acq: 17 Mar 2016 22:52

Tgt Ion:172 Resp: 113381
 Ion Ratio Lower Upper
 172 100
 171 35.0 29.8 44.8
 170 24.3 21.4 32.2





#13

Acenaphthylene

Concen: 0.17 ng

RT: 14.17 min Scan# 1971

Delta R.T. 0.01 min

Lab File: BE097478.D

Acq: 17 Mar 2016 22:52

Instrument :

BNA_E

ClientSampleId :

MDL-06-W

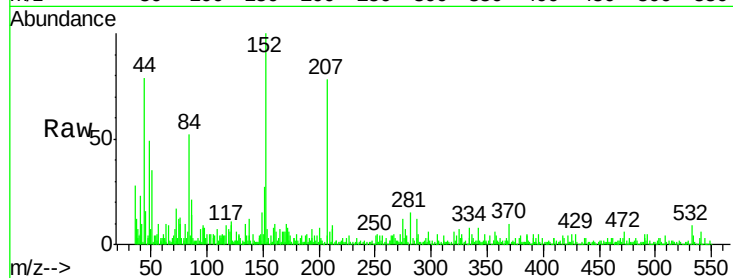
Tgt Ion:152 Resp: 2091

Ion Ratio Lower Upper

152 100

151 17.7 16.3 24.5

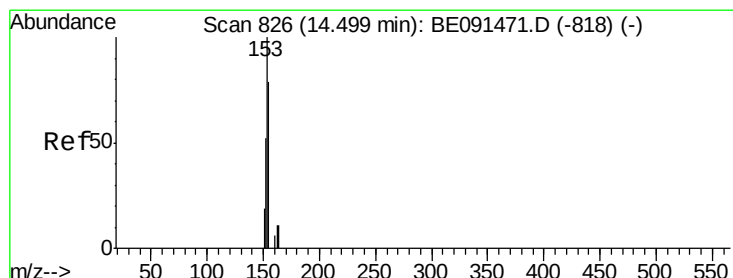
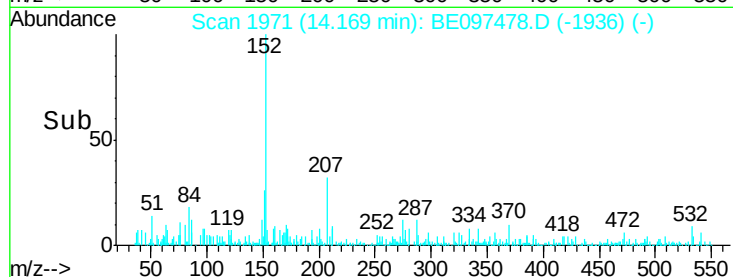
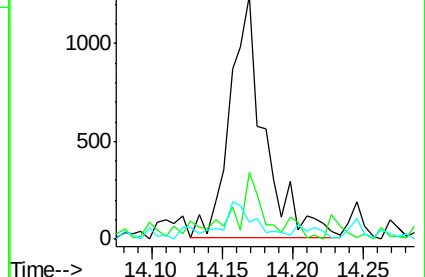
153 12.6 11.1 16.7



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: 0.06 ng

RT: 14.51 min Scan# 2029

Delta R.T. 0.01 min

Lab File: BE097478.D

Acq: 17 Mar 2016 22:52

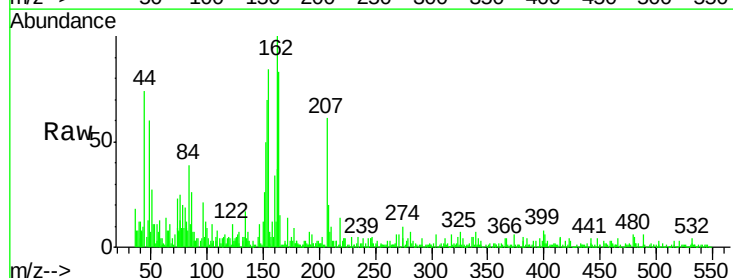
Tgt Ion:154 Resp: 1905

Ion Ratio Lower Upper

154 100

153 96.9 87.3 130.9

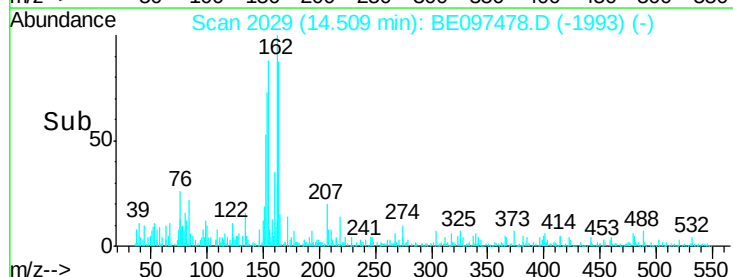
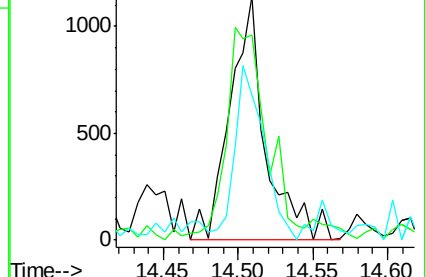
152 58.8 42.9 64.3

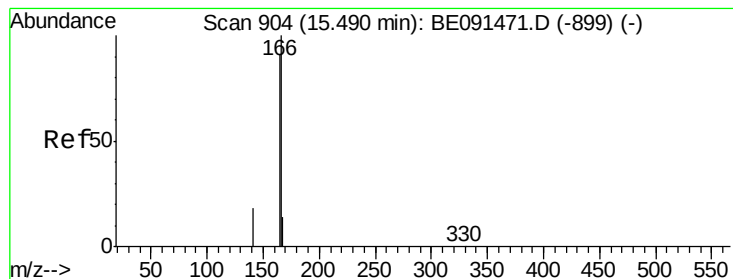


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#15

Fluorene

Concen: 0.06 ng

RT: 15.48 min Scan# 2195

Delta R.T. -0.01 min

Lab File: BE097478.D

Acq: 17 Mar 2016 22:52

Instrument :

BNA_E

ClientSampleId :

MDL-06-W

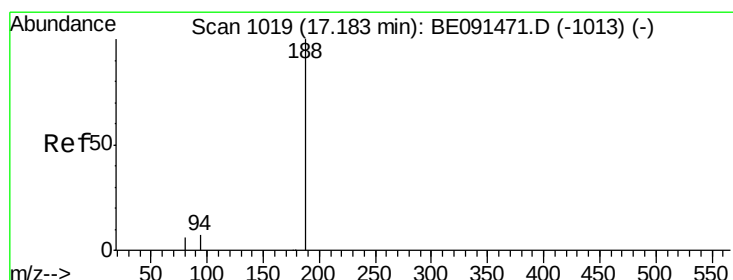
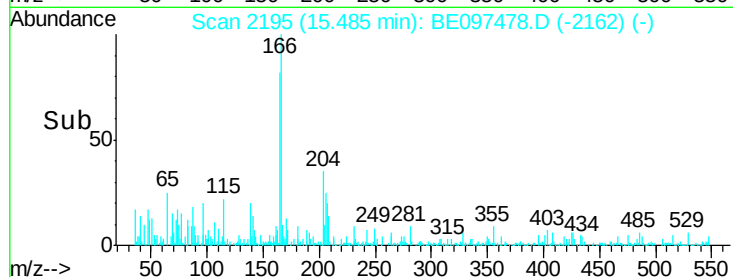
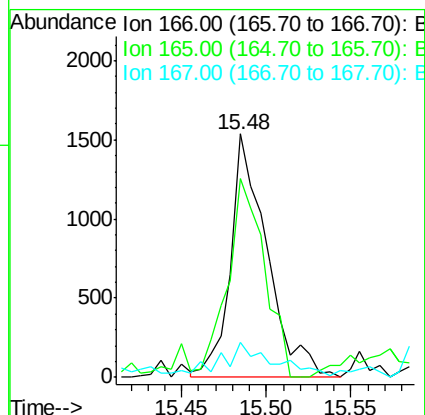
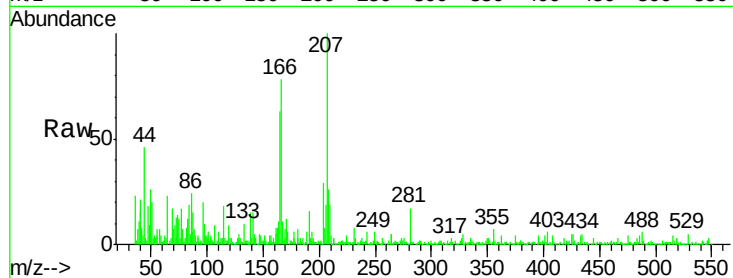
Tgt Ion:166 Resp: 2285

Ion Ratio Lower Upper

166 100

165 83.5 79.2 118.8

167 20.3 10.8 16.2#



#16

Phenanthrene-d10

Concen: 5.00 ng

RT: 17.18 min Scan# 2483

Delta R.T. -0.01 min

Lab File: BE097478.D

Acq: 17 Mar 2016 22:52

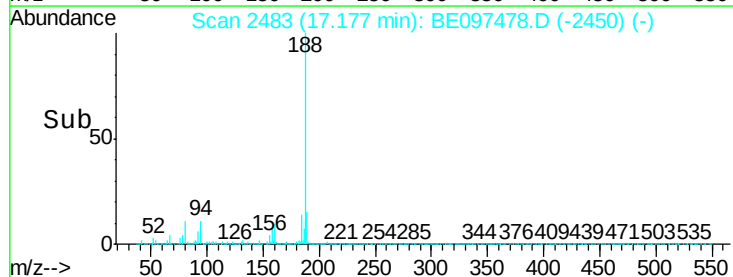
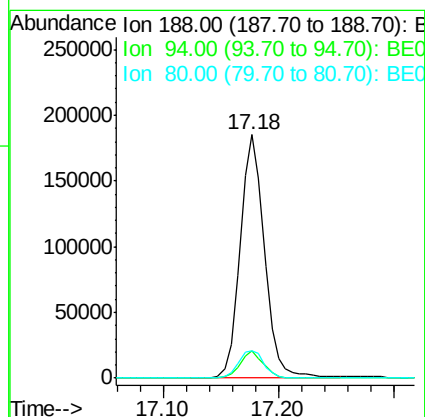
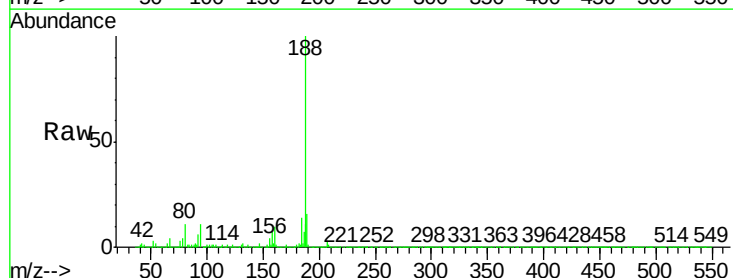
Tgt Ion:188 Resp: 269821

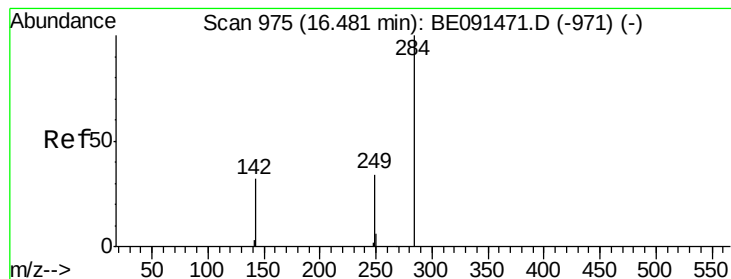
Ion Ratio Lower Upper

188 100

94 11.0 5.4 8.2#

80 11.5 5.0 7.4#





#17

Hexachlorobenzene

Concen: 0.06 ng

RT: 16.48 min Scan# 2364

Delta R.T. -0.00 min

Lab File: BE097478.D

Acq: 17 Mar 2016 22:52

Instrument :

BNA_E

ClientSampleId :

MDL-06-W

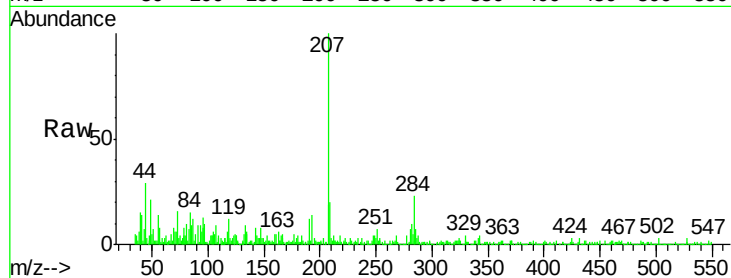
Tgt Ion:284 Resp: 708

Ion Ratio Lower Upper

284 100

142 35.2 31.0 46.4

249 58.8 25.8 38.8#

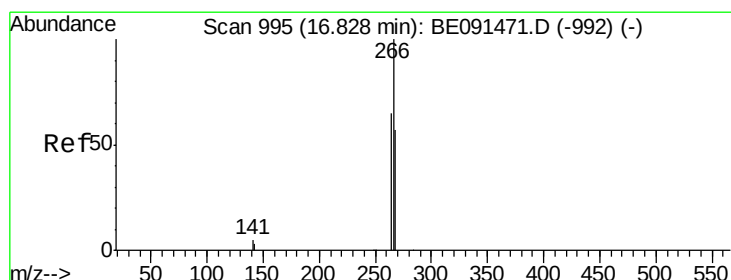
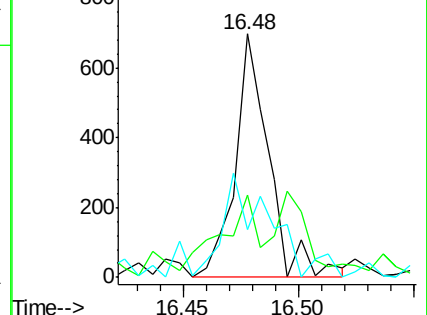
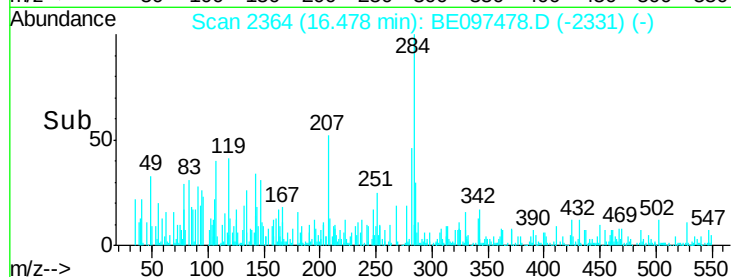


Abundance Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E

Time-->



#18

Pentachlorophenol

Concen: 0.39 ng

RT: 16.84 min Scan# 2425

Delta R.T. 0.01 min

Lab File: BE097478.D

Acq: 17 Mar 2016 22:52

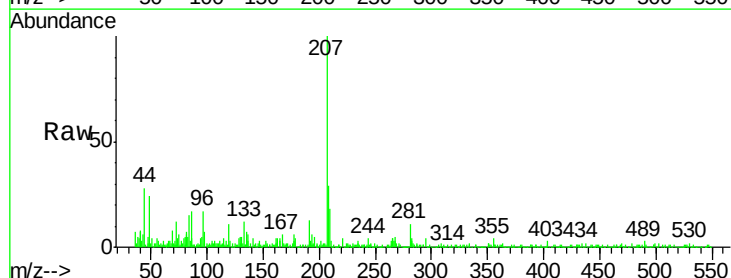
Tgt Ion:266 Resp: 589

Ion Ratio Lower Upper

266 100

268 61.4 48.2 72.2

264 14.1 52.1 78.1#

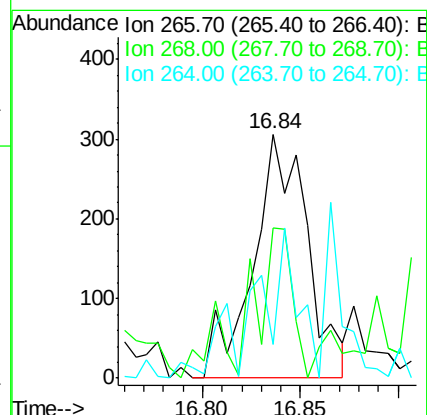
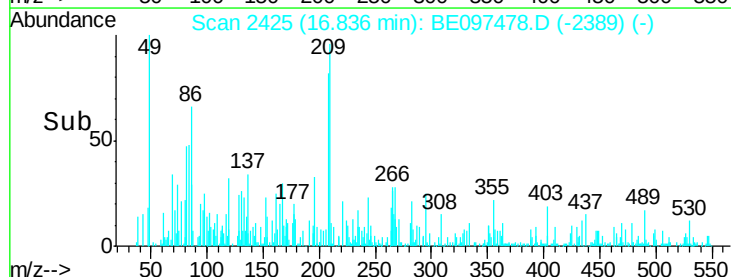


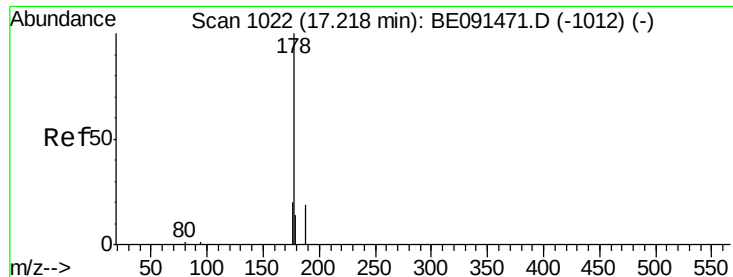
Abundance Ion 265.70 (265.40 to 266.40): E

Ion 268.00 (267.70 to 268.70): E

Ion 264.00 (263.70 to 264.70): E

Time-->





#19

Phenanthrene

Concen: 0.07 ng

RT: 17.22 min Scan# 2490

Delta R.T. 0.00 min

Lab File: BE097478.D

Acq: 17 Mar 2016 22:52

Instrument :

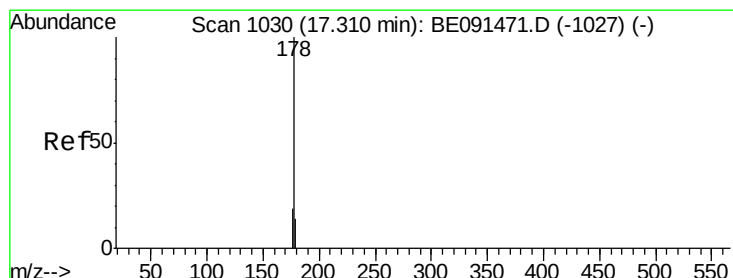
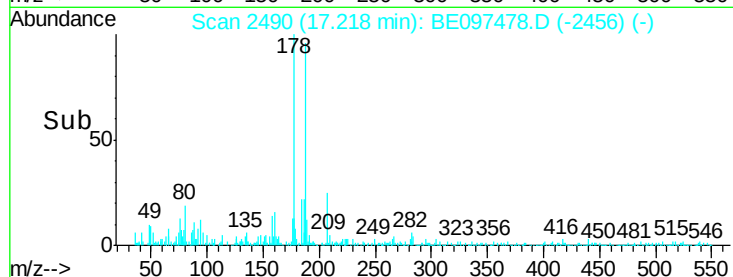
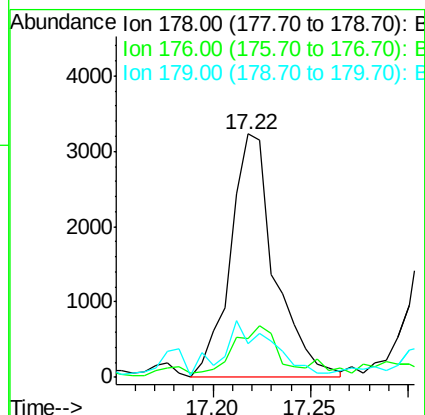
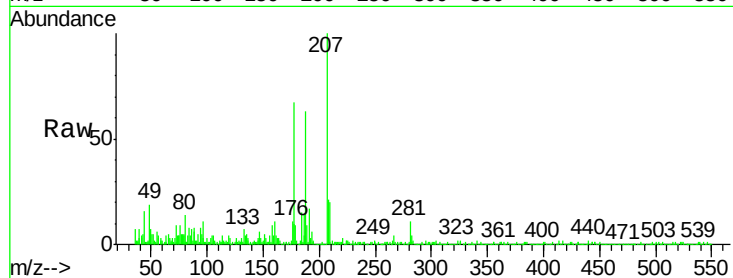
BNA_E

ClientSampleId :

MDL-06-W

Tgt Ion:178 Resp: 5101

Ion	Ratio	Lower	Upper
178	100		
176	17.9	15.5	23.3
179	24.6	13.1	19.7



#20

Anthracene

Concen: 0.05 ng

RT: 17.31 min Scan# 2506

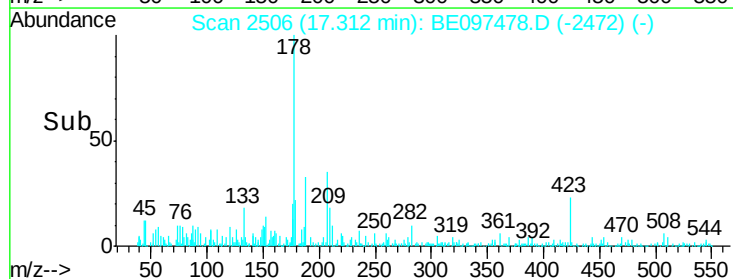
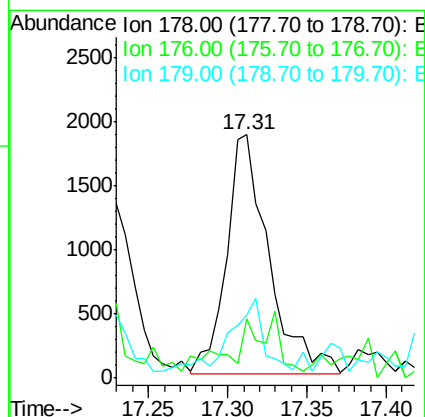
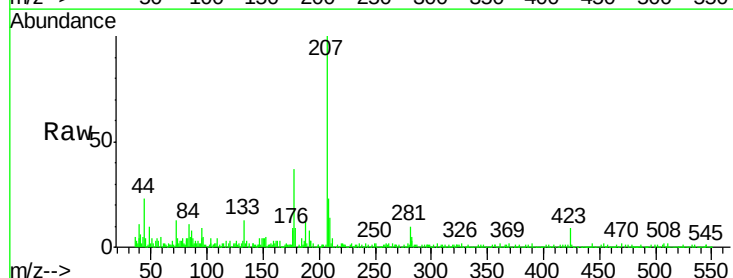
Delta R.T. 0.00 min

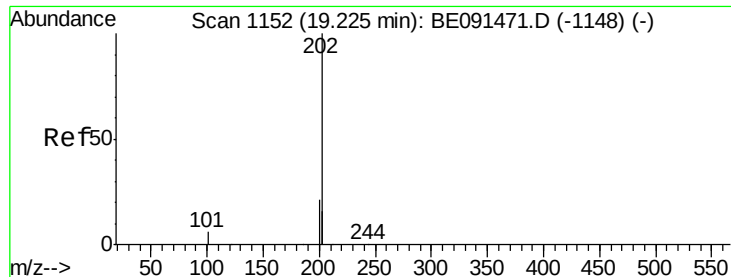
Lab File: BE097478.D

Acq: 17 Mar 2016 22:52

Tgt Ion:178 Resp: 3476

Ion	Ratio	Lower	Upper
178	100		
176	16.9	14.9	22.3
179	24.2	12.2	18.4





#21

Fluoranthene

Concen: 0.05 ng

RT: 19.23 min Scan# 2832

Delta R.T. 0.00 min

Lab File: BE097478.D

Acq: 17 Mar 2016 22:52

Instrument :

BNA_E

ClientSampleId :

MDL-06-W

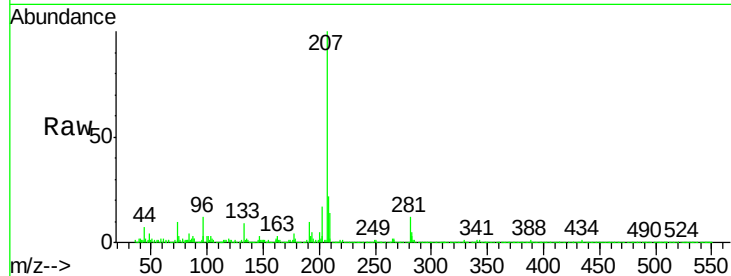
Tgt Ion:202 Resp: 4460

Ion Ratio Lower Upper

202 100

101 23.6 8.3 12.5#

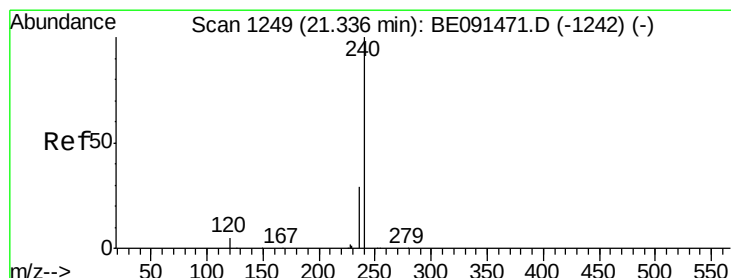
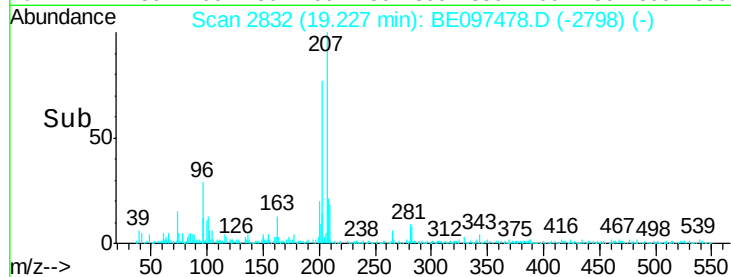
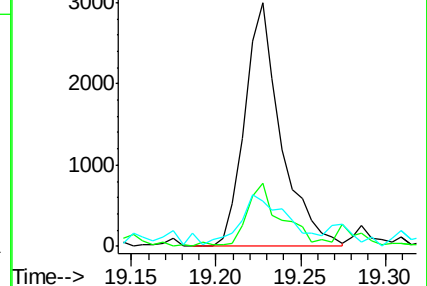
203 26.4 13.9 20.9#



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# 3191

Delta R.T. 0.00 min

Lab File: BE097478.D

Acq: 17 Mar 2016 22:52

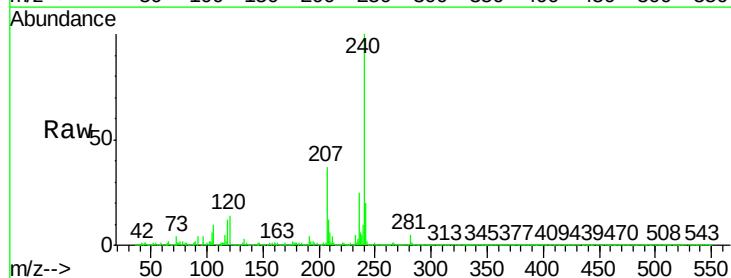
Tgt Ion:240 Resp: 333759

Ion Ratio Lower Upper

240 100

120 13.9 4.0 6.0#

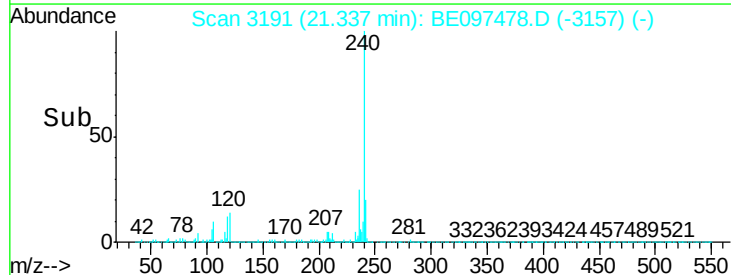
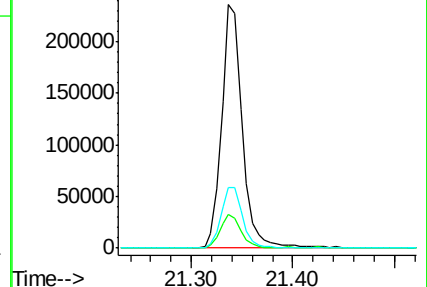
236 25.0 23.0 34.4

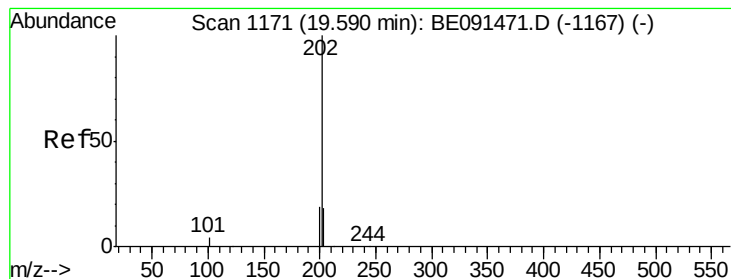


Abundance Ion 240.00 (239.70 to 240.70): E

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# 2894

Delta R.T. 0.00 min

Lab File: BE097478.D

Acq: 17 Mar 2016 22:52

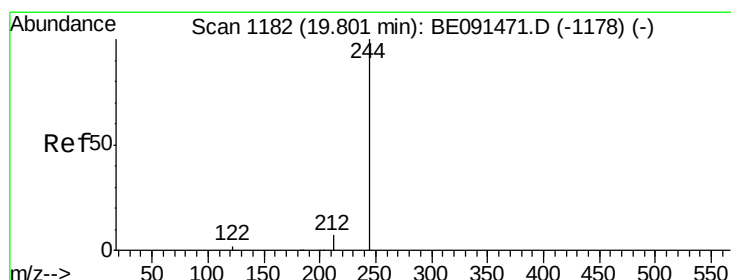
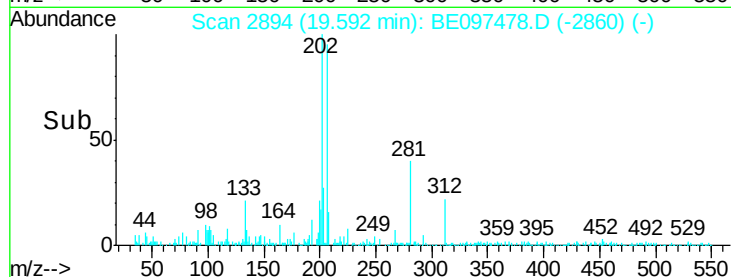
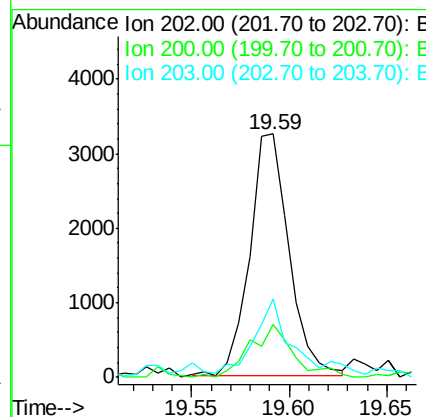
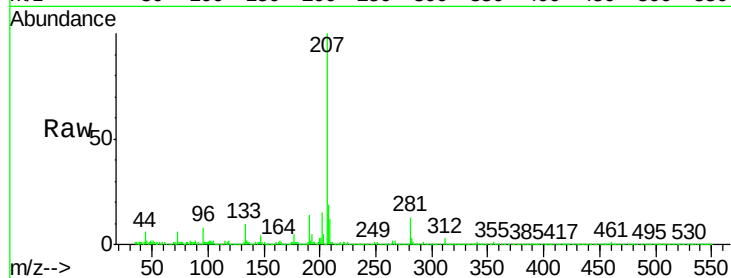
Instrument :

BNA_E

ClientSampleId :

MDL-06-W

Tgt Ion:	202	Resp:	4538
Ion	Ratio	Lower	Upper
202	100		
200	24.3	16.4	24.6
203	29.9	14.6	21.8#



#24

Terphenyl-d14

Concen: 5.49 ng

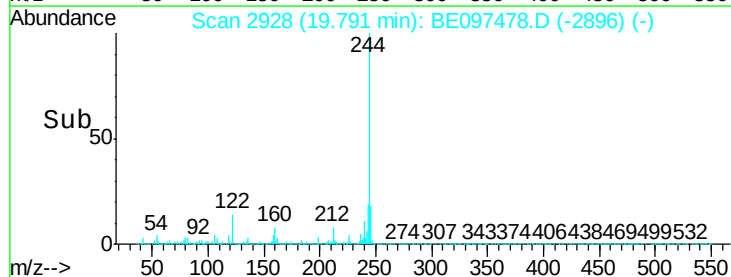
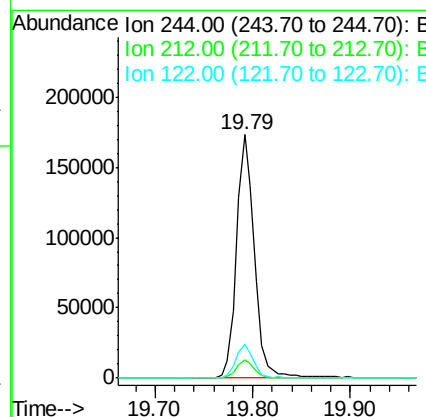
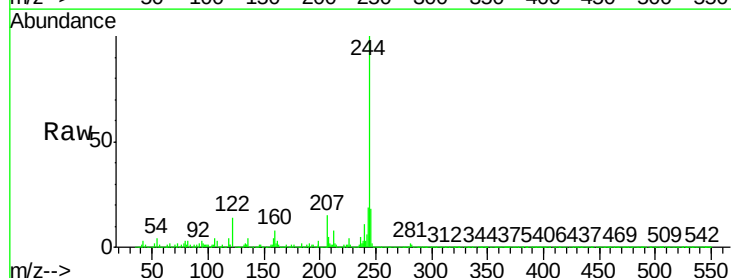
RT: 19.79 min Scan# 2928

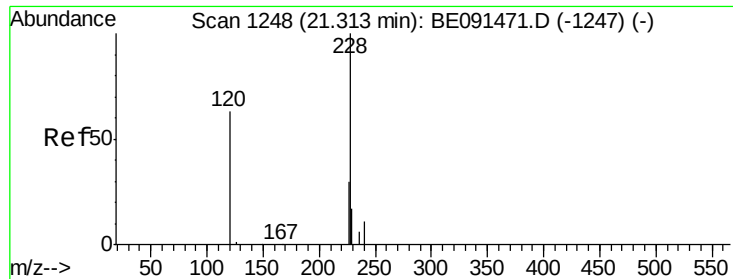
Delta R.T. -0.01 min

Lab File: BE097478.D

Acq: 17 Mar 2016 22:52

Tgt Ion:	244	Resp:	220534
Ion	Ratio	Lower	Upper
244	100		
212	7.5	5.8	8.8
122	13.6	1.8	2.8#





#25

Benzo(a)anthracene

Concen: 0.09 ng

RT: 21.38 min Scan# 3199

Delta R.T. 0.07 min

Lab File: BE097478.D

Acq: 17 Mar 2016 22:52

Instrument :

BNA_E

ClientSampleId :

MDL-06-W

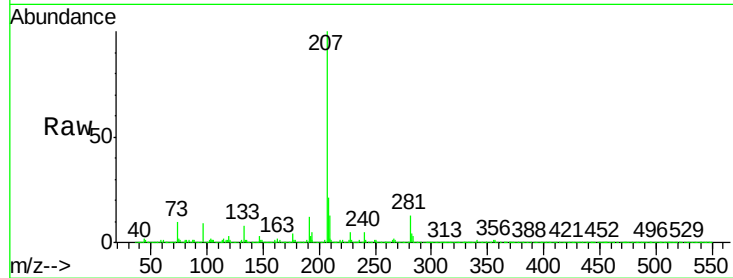
Tgt Ion:228 Resp: 8215

Ion Ratio Lower Upper

228 100

226 24.8 24.0 36.0

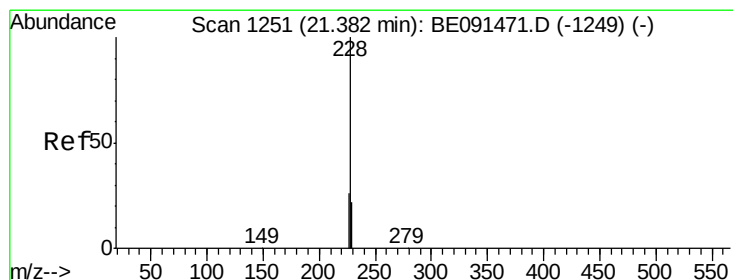
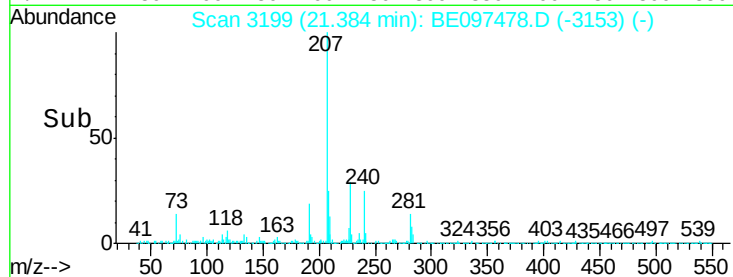
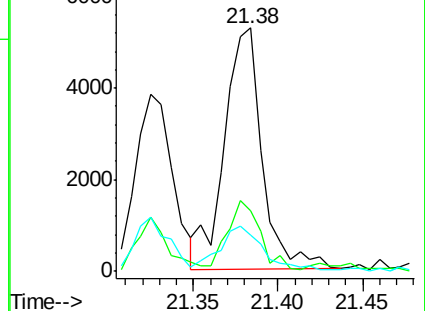
229 14.9 13.8 20.6



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



#26

Chrysene

Concen: Below Cal

RT: 21.38 min Scan# 3199

Delta R.T. 0.00 min

Lab File: BE097478.D

Acq: 17 Mar 2016 22:52

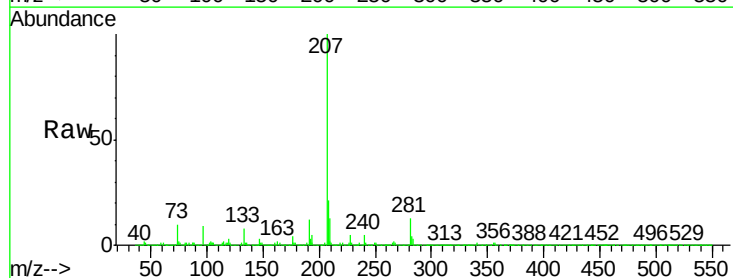
Tgt Ion:228 Resp: 8215

Ion Ratio Lower Upper

228 100

226 24.8 18.9 28.3

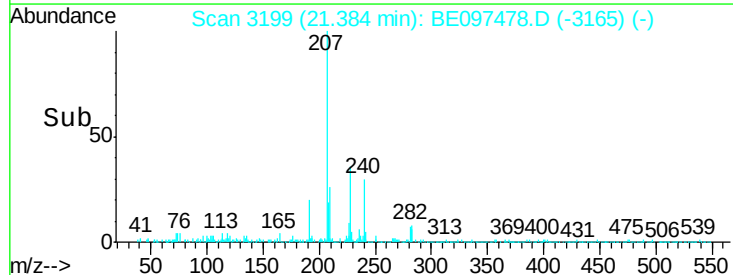
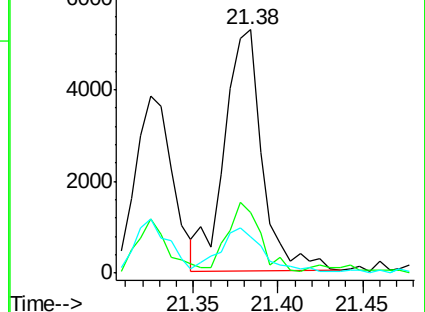
229 14.9 19.1 28.7#

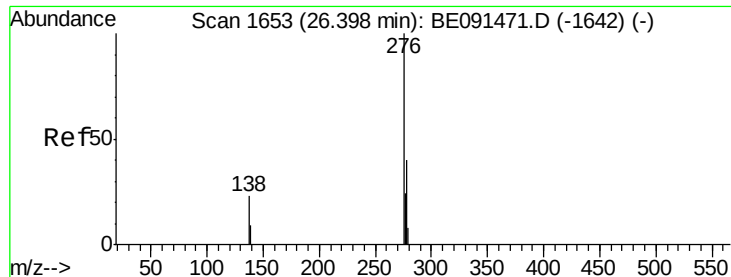


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#27

Indeno(1,2,3-cd)pyrene

Concen: 0.02 ng

RT: 26.40 min Scan# 4053

Delta R.T. 0.00 min

Lab File: BE097478.D

Acq: 17 Mar 2016 22:52

Instrument :

BNA_E

ClientSampleId :

MDL-06-W

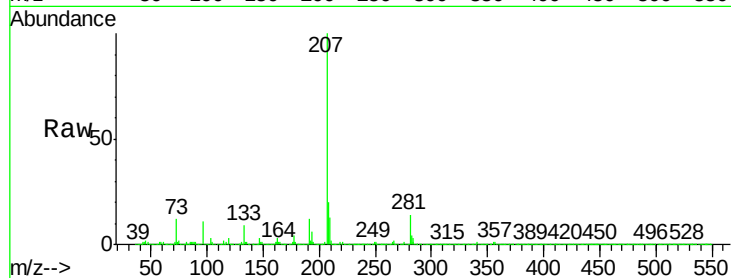
Tgt Ion:276 Resp: 1936

Ion Ratio Lower Upper

276 100

138 42.1 20.2 30.4#

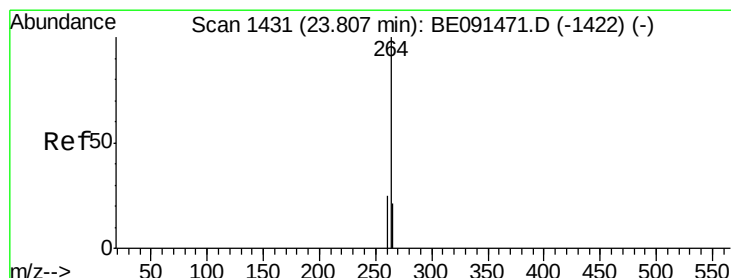
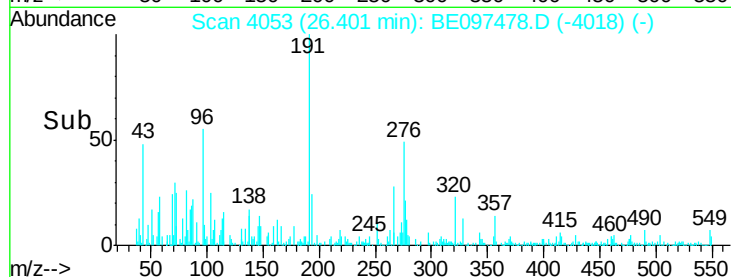
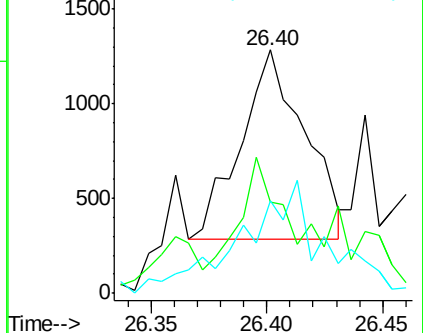
277 76.1 19.8 29.8#



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# 3611

Delta R.T. -0.00 min

Lab File: BE097478.D

Acq: 17 Mar 2016 22:52

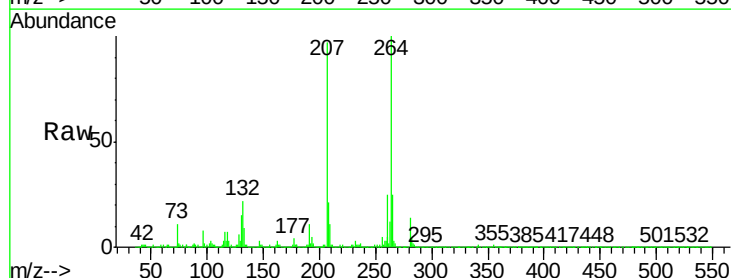
Tgt Ion:264 Resp: 316171

Ion Ratio Lower Upper

264 100

260 24.7 20.1 30.1

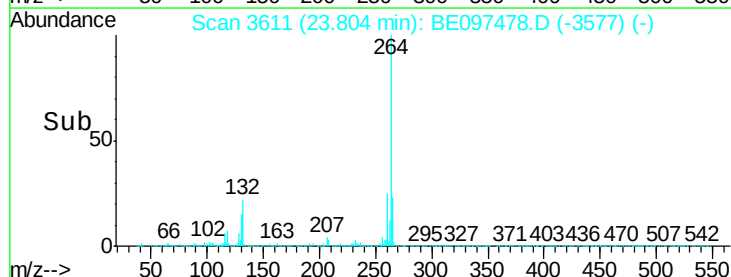
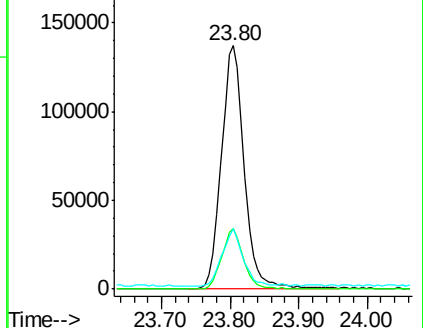
265 24.7 18.3 27.5

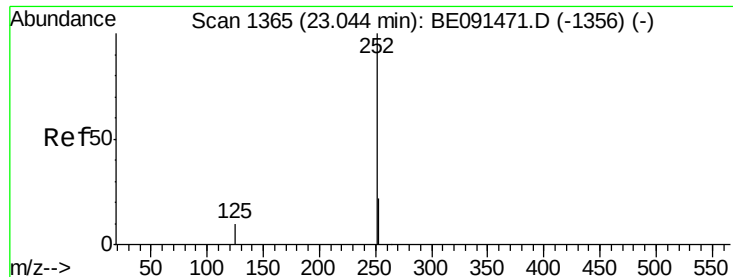


Abundance Ion 264.00 (263.70 to 264.70): E

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# 3483

Delta R.T. 0.01 min

Lab File: BE097478.D

Acq: 17 Mar 2016 22:52

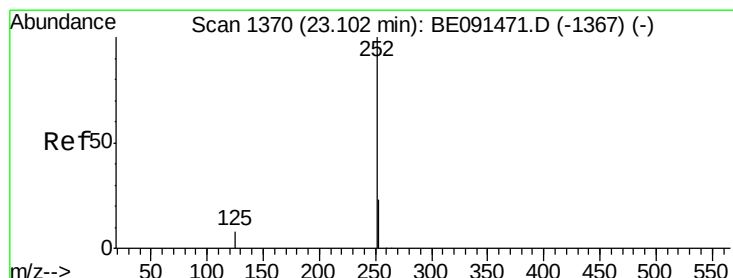
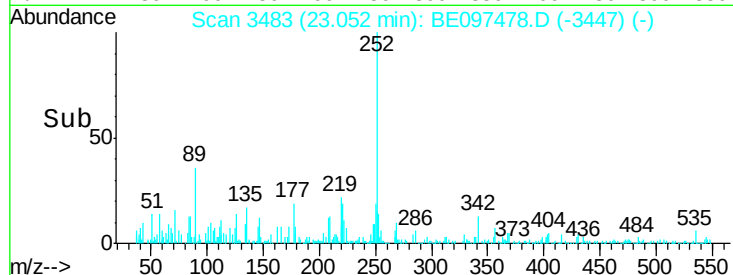
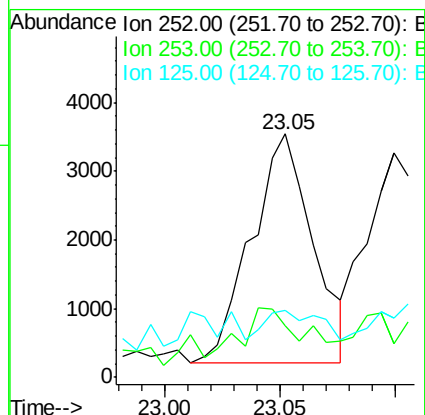
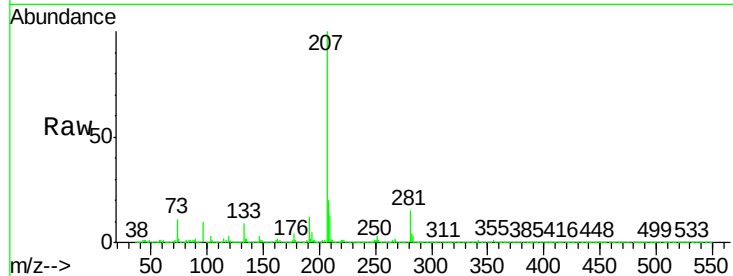
Instrument :

BNA_E

ClientSampleId :

MDL-06-W

Tgt Ion:	252	Resp:	6169
Ion Ratio	Lower	Upper	
252	100		
253	21.2	18.7	28.1
125	27.3	9.8	14.6#



#30

Benzo(k)fluoranthene

Concen: 0.06 ng

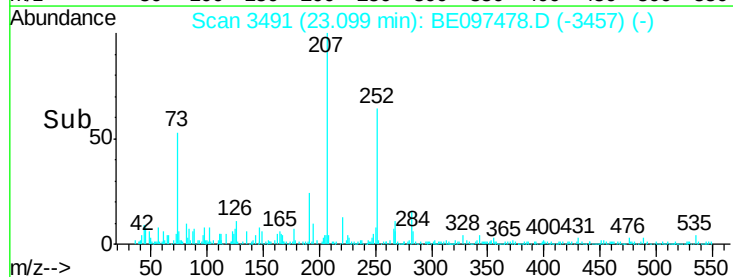
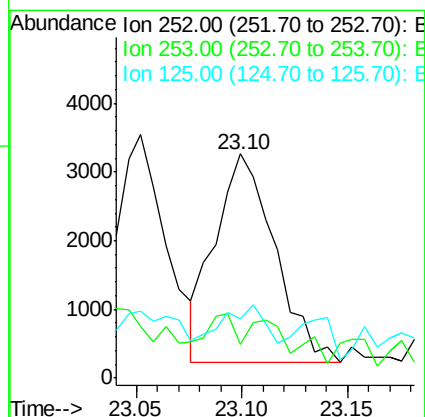
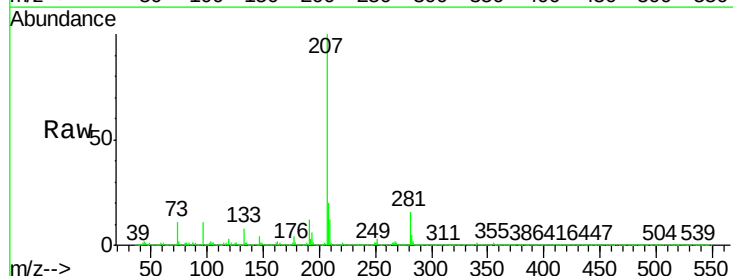
RT: 23.10 min Scan# 3491

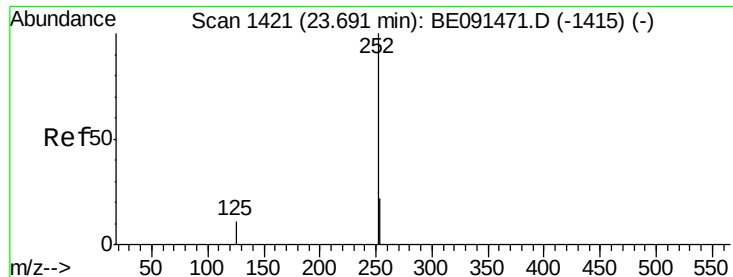
Delta R.T. -0.00 min

Lab File: BE097478.D

Acq: 17 Mar 2016 22:52

Tgt Ion:	252	Resp:	5917
Ion Ratio	Lower	Upper	
252	100		
253	15.2	20.2	30.4#
125	26.7	9.4	14.2#





#31

Benzo(a)pyrene

Concen: 0.06 ng

RT: 23.70 min Scan# 3593

Delta R.T. 0.01 min

Lab File: BE097478.D

Acq: 17 Mar 2016 22:52

Instrument :

BNA_E

ClientSampled :

MDL-06-W

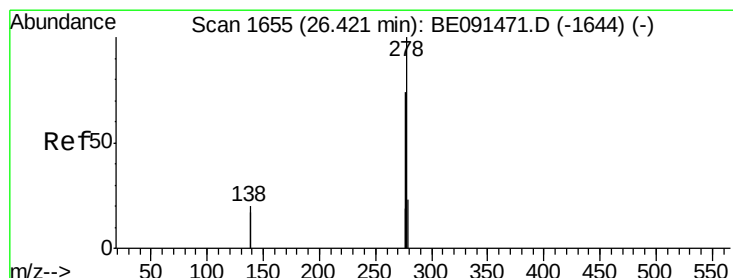
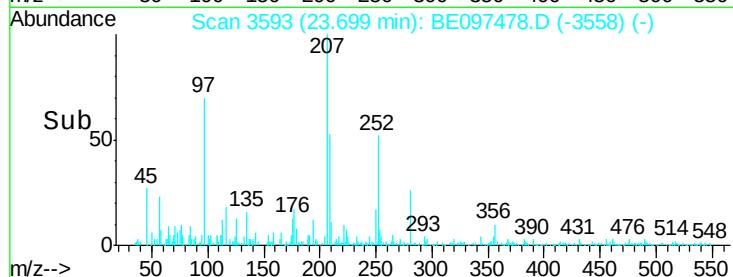
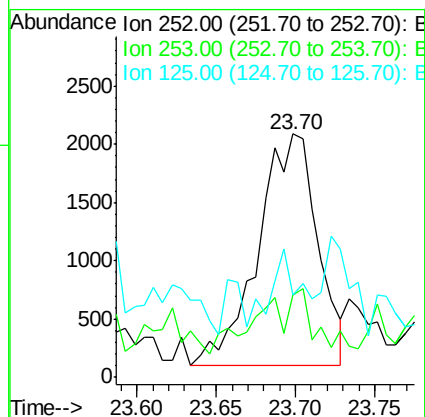
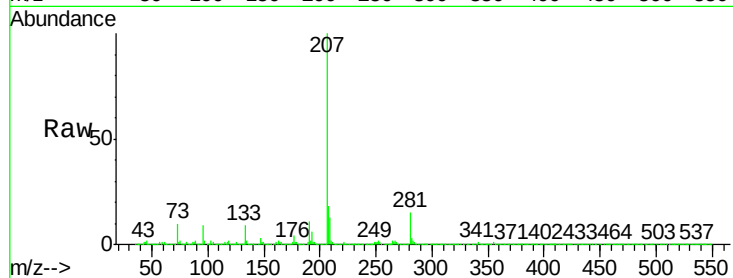
Tgt Ion:252 Resp: 5180

Ion Ratio Lower Upper

252 100

253 33.6 19.4 29.0#

125 33.9 11.4 17.2#



#32

Dibenzo(a,h)anthracene

Concen: 0.04 ng

RT: 26.42 min Scan# 4056

Delta R.T. -0.00 min

Lab File: BE097478.D

Acq: 17 Mar 2016 22:52

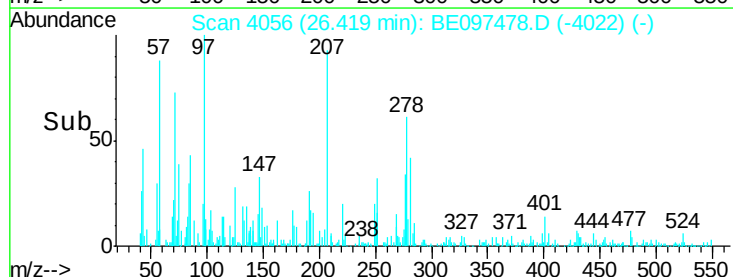
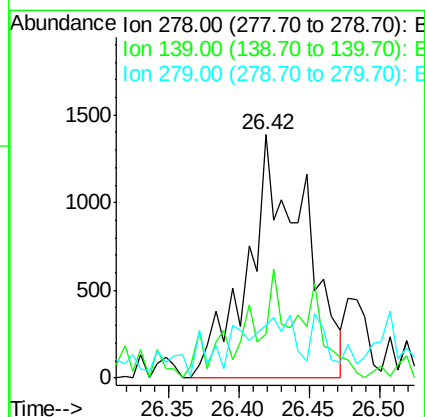
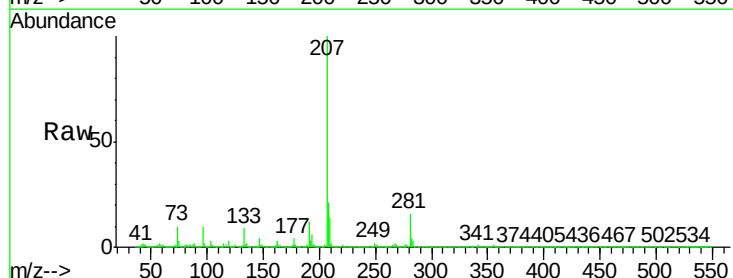
Tgt Ion:278 Resp: 3851

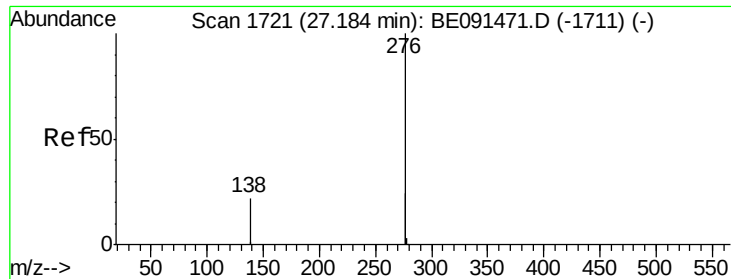
Ion Ratio Lower Upper

278 100

139 17.9 14.2 21.4

279 21.5 19.6 29.4





#33

Benzo(g,h,i)perylene

Concen: 0.04 ng

RT: 27.19 min Scan# 4188

Delta R.T. 0.01 min

Lab File: BE097478.D

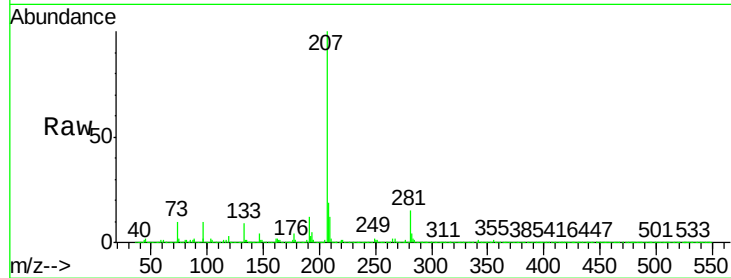
Acq: 17 Mar 2016 22:52

Instrument :

BNA_E

ClientSampleId :

MDL-06-W



Tgt Ion:	276	Resp:	3539
Ion	Ratio	Lower	Upper
276	100		
277	23.8	19.4	29.2
138	36.2	18.2	27.4#

