

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE031816\
 Data File : BE097488.D
 Acq On : 18 Mar 2016 5:38
 Operator : UM/SJ
 Sample : MDL-01-W
 Misc : 0.16PPM
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 MDL-BLK-W

Quant Time: Mar 18 08:21:31 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	41286	5.00	ng	0.00
6) Naphthalene-d8	10.61	136	175679	5.00	ng	0.00
10) Acenaphthene-d10	14.44	164	100436	5.00	ng	0.00
16) Phenanthrene-d10	17.18	188	253556	5.00	ng	0.00
22) Chrysene-d12	21.34	240	307121	5.00	ng	0.00
28) Perylene-d12	23.80	264	290518	5.00	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.42	112	84015	8.86	ng	0.00
5) Phenol-d6	6.99	99	101516	8.20	ng	0.00
7) Nitrobenzene-d5	8.98	82	35360	3.73	ng	0.00
11) 2,4,6-Tribromophenol	15.93	330	21497	5.87	ng	0.00
12) 2-Fluorobiphenyl	13.06	172	119655	4.73	ng	0.00
24) Terphenyl-d14	19.79	244	203206	5.50	ng	0.00

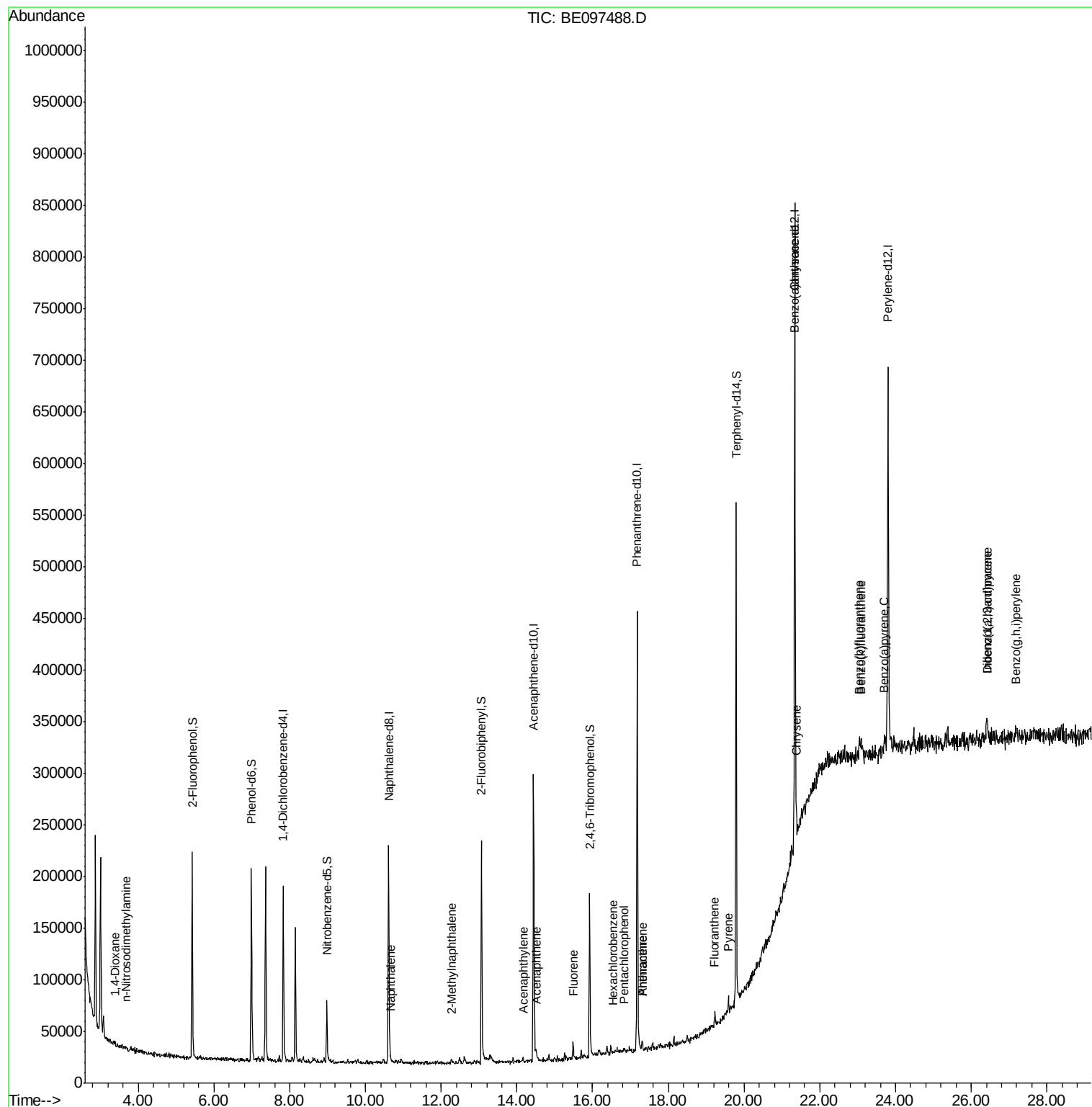
Target Compounds						Qvalue
2) 1,4-Dioxane	3.38	88	1319	0.26	ng	97
3) n-Nitrosodimethylamine	3.68	42	266	0.04	ng	# 1
8) Naphthalene	10.66	128	4678	0.11	ng	# 90
9) 2-Methylnaphthalene	12.27	142	2312	0.08	ng	# 90
13) Acenaphthylene	14.16	152	3612	0.20	ng	98
14) Acenaphthene	14.50	154	3289	0.11	ng	# 86
15) Fluorene	15.49	166	3719	0.10	ng	89
17) Hexachlorobenzene	16.53	284	255	0.02	ng	99
18) Pentachlorophenol	16.83	266	894	0.44	ng	# 71
19) Phenanthrene	17.31	178	5688	0.08	ng	97
20) Anthracene	17.31	178	5949	0.09	ng	97
21) Fluoranthene	19.23	202	8518	0.10	ng	# 90
23) Pyrene	19.59	202	8505	0.11	ng	97
25) Benzo(a)anthracene	21.33	228	8979	0.11	ng	98
26) Chrysene	21.38	228	10659	0.02	ng	# 82
27) Indeno(1,2,3-cd)pyrene	26.41	276	7426	0.08	ng	# 90
29) Benzo(b)fluoranthene	23.05	252	8673	0.09	ng	# 82
30) Benzo(k)fluoranthene	23.10	252	9112	0.10	ng	# 93
31) Benzo(a)pyrene	23.70	252	7172	0.09	ng	# 75
32) Dibenzo(a,h)anthracene	26.42	278	6938	0.09	ng	97
33) Benzo(g,h,i)perylene	27.18	276	4103	0.05	ng	# 89

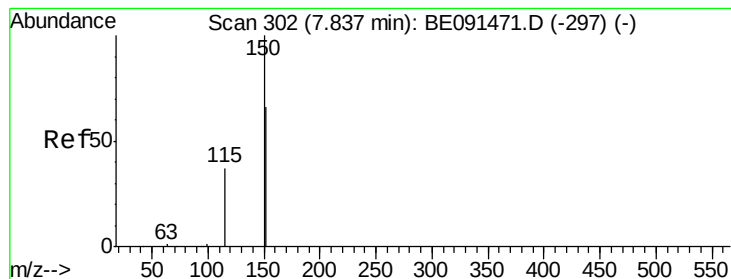
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE031816\
Data File : BE097488.D
Acq On : 18 Mar 2016 5:38
Operator : UM/SJ
Sample : MDL-01-W
Misc : 0.16PPM
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
MDL-BLK-W

Quant Time: Mar 18 08:21:31 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





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.83 min Scan# 892

Delta R.T. -0.01 min

Lab File: BE097488.D

Acq: 18 Mar 2016 5:38

Instrument :

BNA_E

ClientSampleId :

MDL-BLK-W

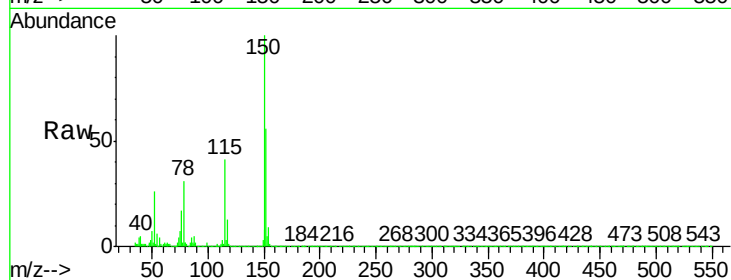
Tgt Ion:152 Resp: 41286

Ion Ratio Lower Upper

152 100

150 179.3 122.2 183.2

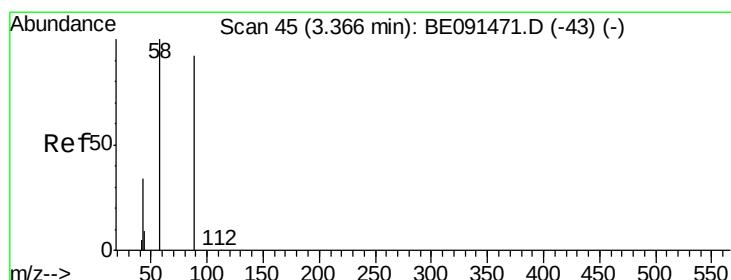
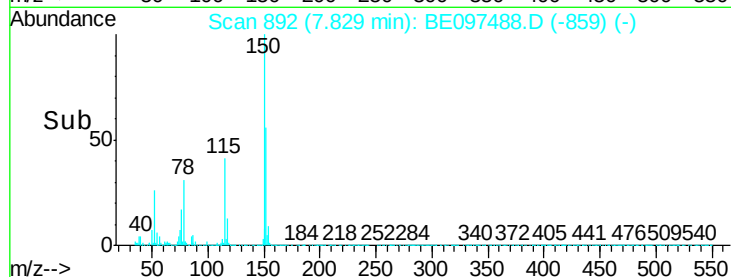
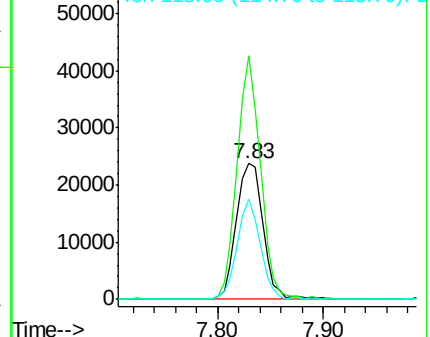
115 73.6 45.9 68.9#



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: 0.26 ng

RT: 3.38 min Scan# 135

Delta R.T. 0.02 min

Lab File: BE097488.D

Acq: 18 Mar 2016 5:38

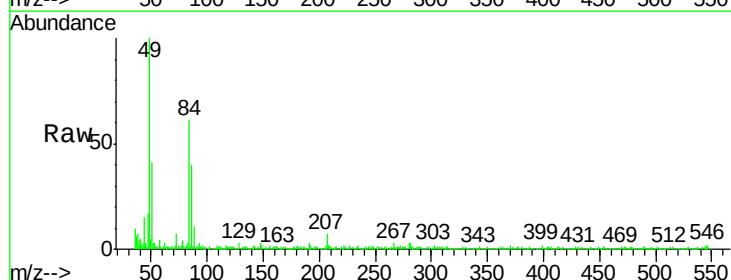
Tgt Ion: 88 Resp: 1319

Ion Ratio Lower Upper

88 100

58 73.1 61.0 91.6

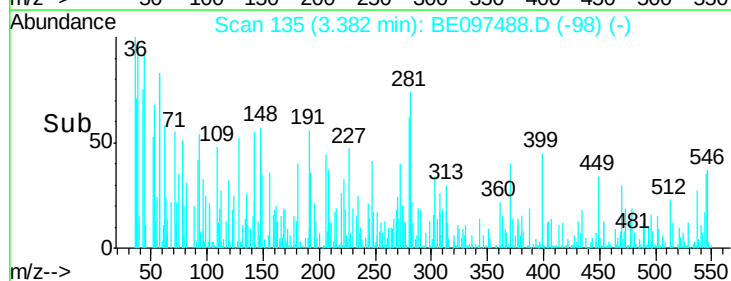
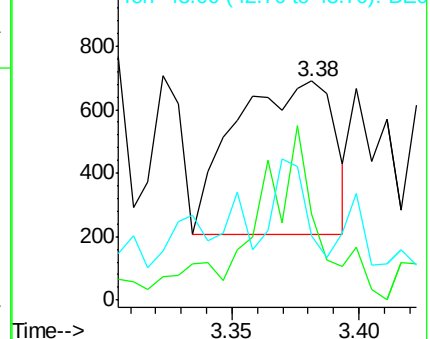
43 32.8 25.4 38.2

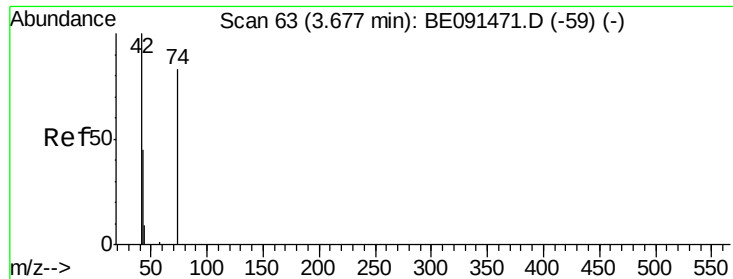


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#3

n-Nitrosodimethylamine

Concen: 0.04 ng

RT: 3.68 min Scan# 185

Delta R.T. -0.00 min

Lab File: BE097488.D

Acq: 18 Mar 2016 5:38

Instrument :

BNA_E

ClientSampleId :

MDL-BLK-W

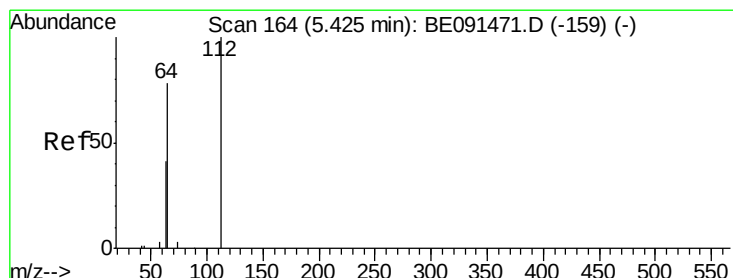
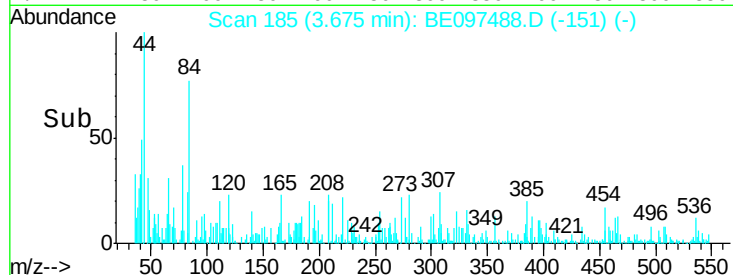
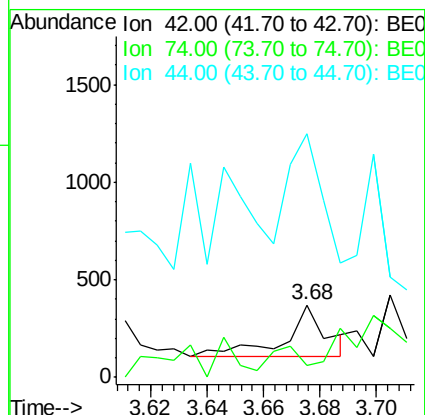
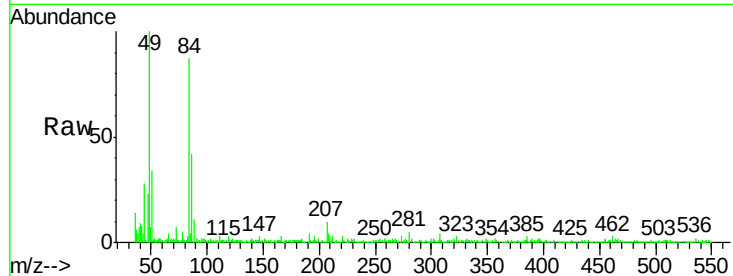
Tgt Ion: 42 Resp: 266

Ion Ratio Lower Upper

42 100

74 32.3 84.3 126.5#

44 196.6 6.7 10.1#



#4

2-Fluorophenol

Concen: 8.86 ng

RT: 5.42 min Scan# 482

Delta R.T. -0.00 min

Lab File: BE097488.D

Acq: 18 Mar 2016 5:38

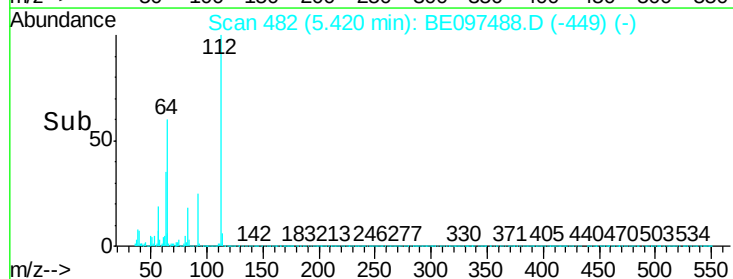
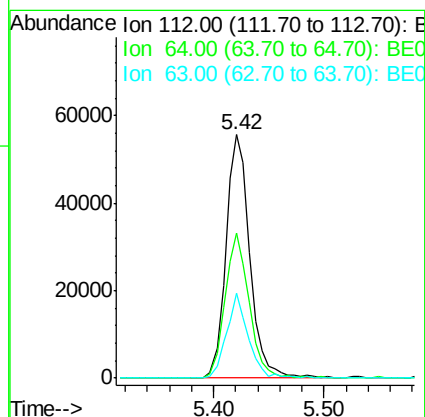
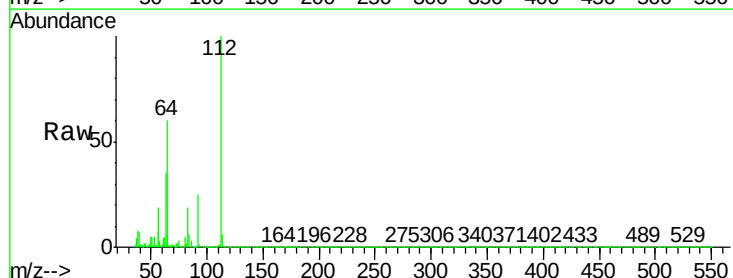
Tgt Ion: 112 Resp: 84015

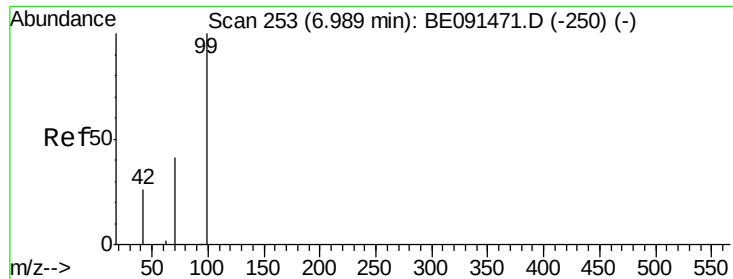
Ion Ratio Lower Upper

112 100

64 59.8 53.3 79.9

63 31.9 29.8 44.8





#5

Phenol-d6

Concen: 8.20 ng

RT: 6.99 min Scan# 749

Delta R.T. 0.00 min

Lab File: BE097488.D

Acq: 18 Mar 2016 5:38

Instrument :

BNA_E

ClientSampleId :

MDL-BLK-W

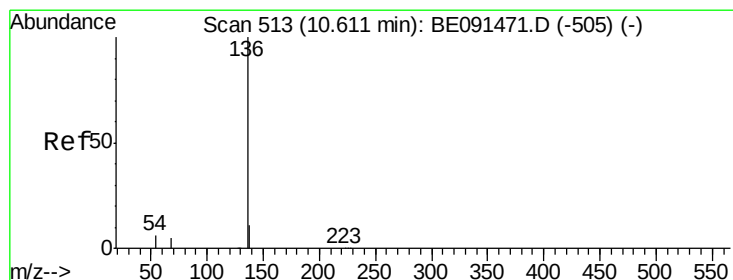
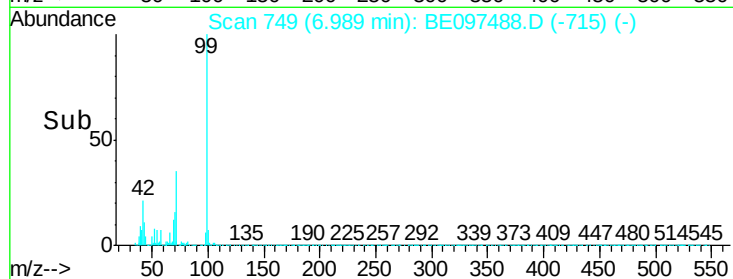
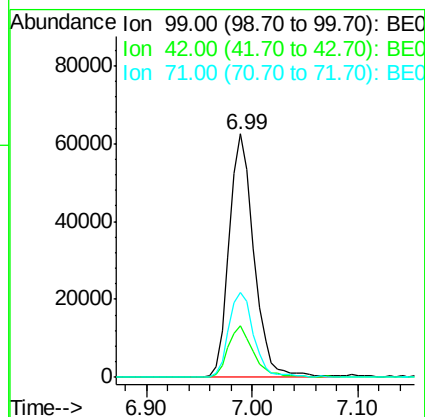
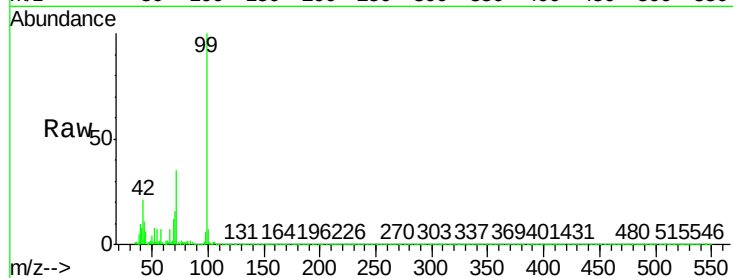
Tgt Ion: 99 Resp: 101516

Ion Ratio Lower Upper

99 100

42 21.2 20.6 30.8

71 35.2 29.0 43.4



#6

Naphthalene-d8

Concen: 5.00 ng

RT: 10.61 min Scan# 1365

Delta R.T. -0.00 min

Lab File: BE097488.D

Acq: 18 Mar 2016 5:38

Tgt Ion: 136 Resp: 175679

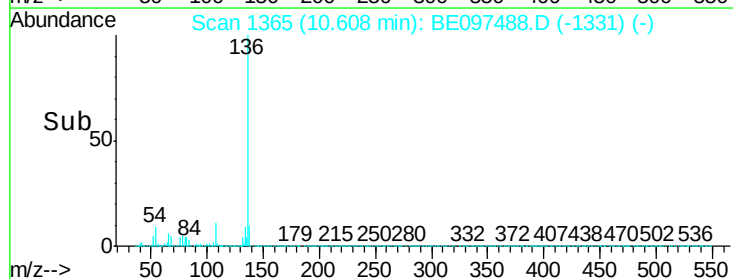
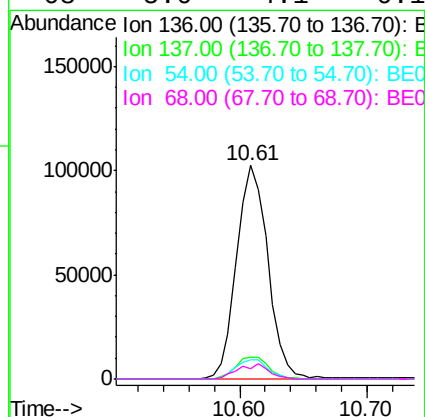
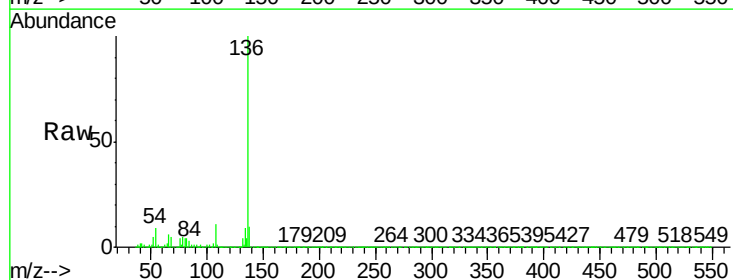
Ion Ratio Lower Upper

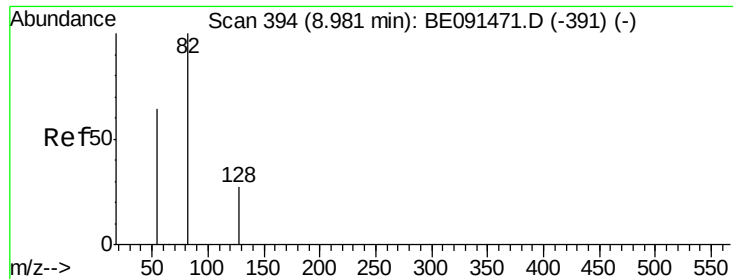
136 100

137 10.1 8.8 13.2

54 9.3 5.2 7.8#

68 5.0 4.1 6.1





#7

Nitrobenzene-d5

Concen: 3.73 ng

RT: 8.98 min Scan# 1088

Delta R.T. 0.00 min

Lab File: BE097488.D

Acq: 18 Mar 2016 5:38

Instrument :

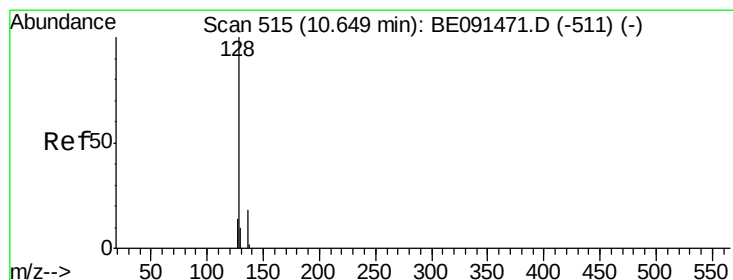
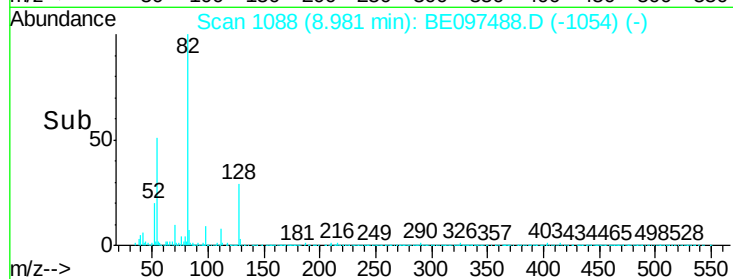
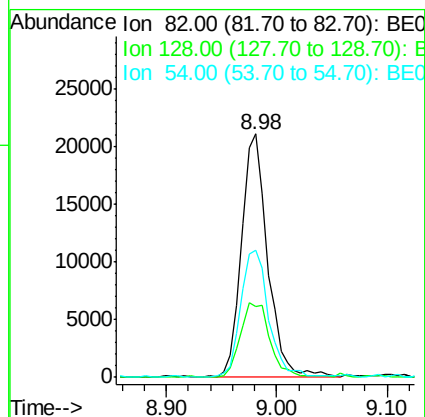
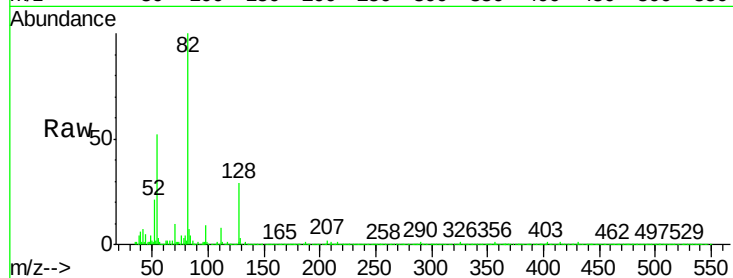
BNA_E

ClientSampleId :

MDL-BLK-W

Tgt Ion: 82 Resp: 35360

Ion	Ratio	Lower	Upper
82	100		
128	28.8	23.5	35.3
54	52.1	52.4	78.6#



#8

Naphthalene

Concen: 0.11 ng

RT: 10.66 min Scan# 1374

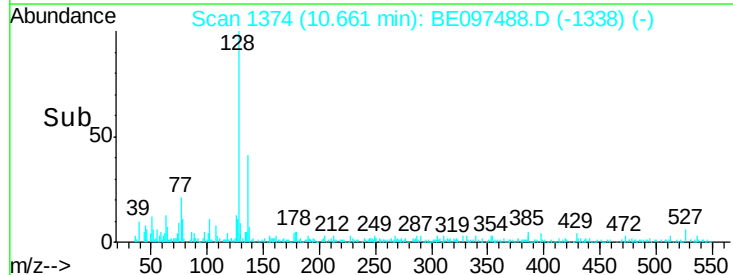
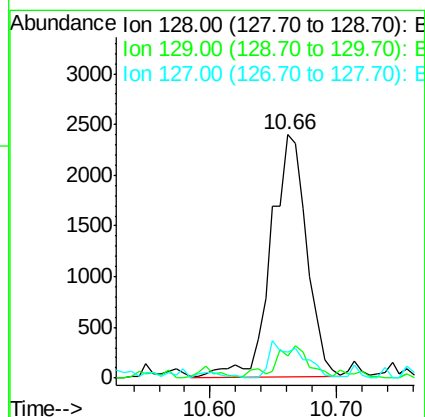
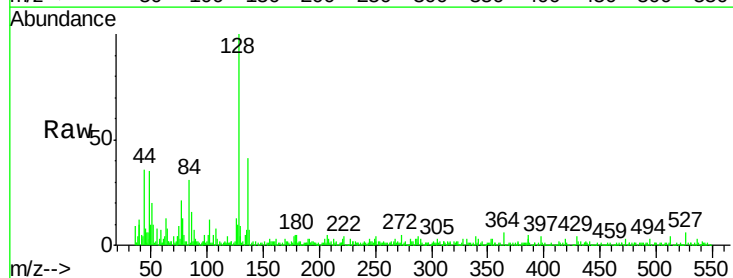
Delta R.T. 0.01 min

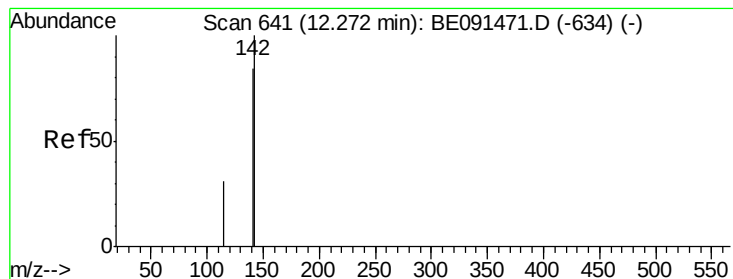
Lab File: BE097488.D

Acq: 18 Mar 2016 5:38

Tgt Ion: 128 Resp: 4678

Ion	Ratio	Lower	Upper
128	100		
129	13.4	8.2	12.2#
127	10.5	11.8	17.8#





#9

2-Methylnaphthalene

Concen: 0.08 ng

RT: 12.27 min Scan# 1647

Delta R.T. -0.01 min

Lab File: BE097488.D

Acq: 18 Mar 2016 5:38

Instrument :

BNA_E

ClientSampleId :

MDL-BLK-W

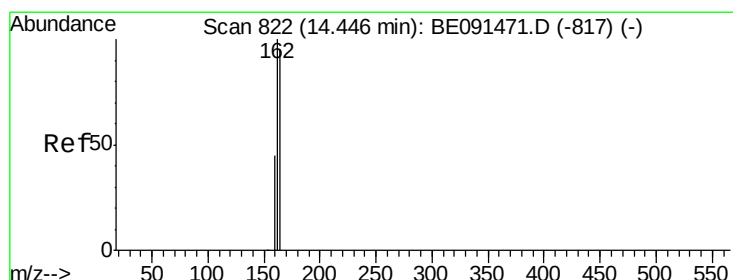
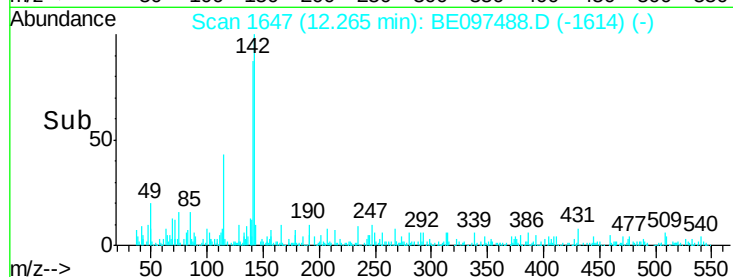
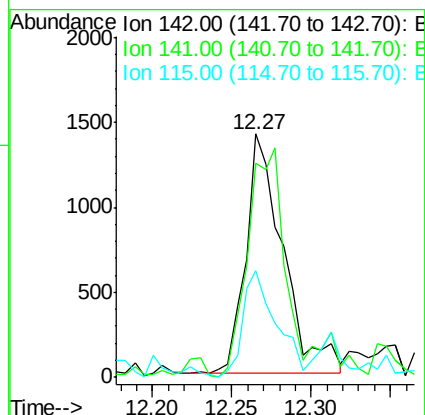
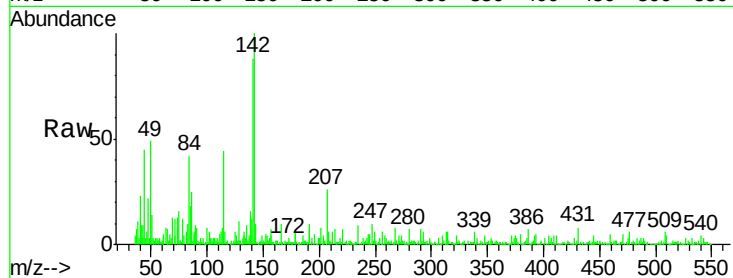
Tgt Ion:142 Resp: 2312

Ion Ratio Lower Upper

142 100

141 87.8 66.9 100.3

115 44.1 25.1 37.7#



#10

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.44 min Scan# 2017

Delta R.T. -0.01 min

Lab File: BE097488.D

Acq: 18 Mar 2016 5:38

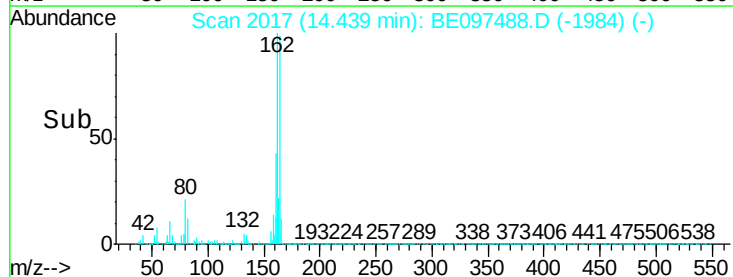
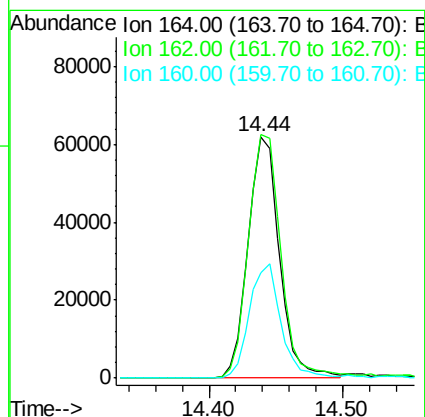
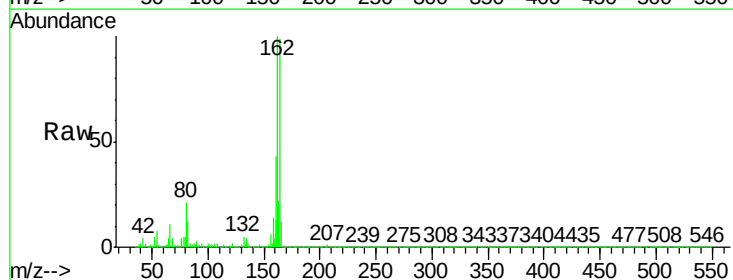
Tgt Ion:164 Resp: 100436

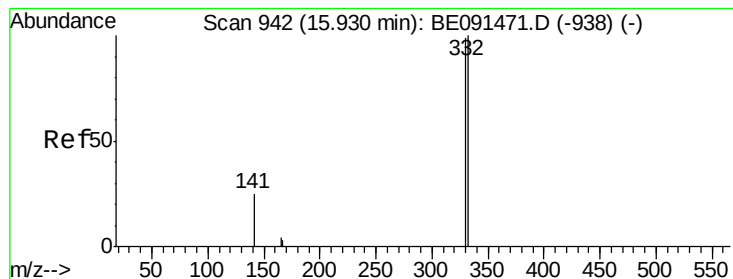
Ion Ratio Lower Upper

164 100

162 100.8 84.4 126.6

160 43.4 37.7 56.5

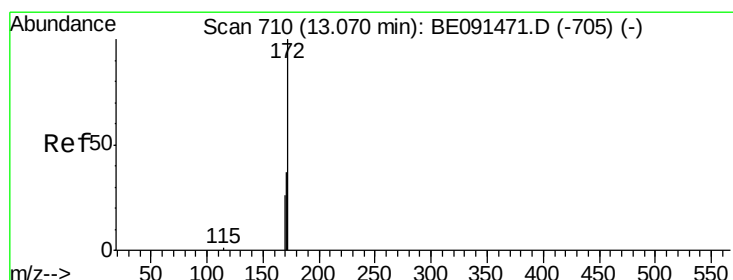
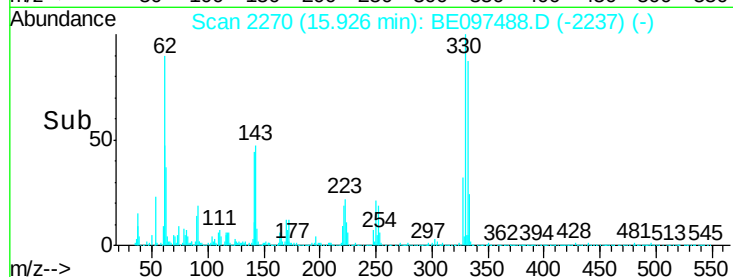
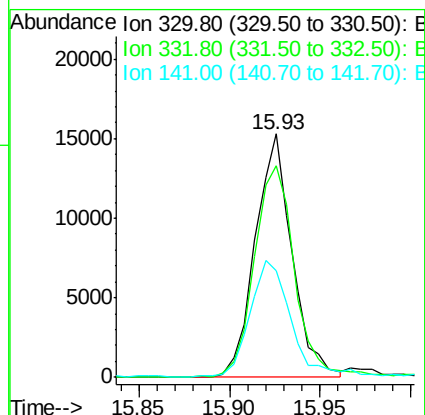
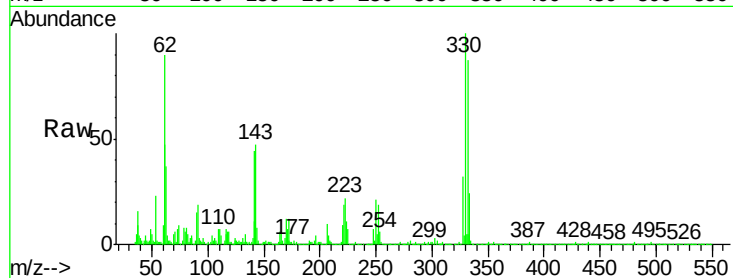




#11
2,4,6-Tribromophenol
Concen: 5.87 ng
RT: 15.93 min Scan# 2270
Delta R.T. -0.00 min
Lab File: BE097488.D
Acq: 18 Mar 2016 5:38

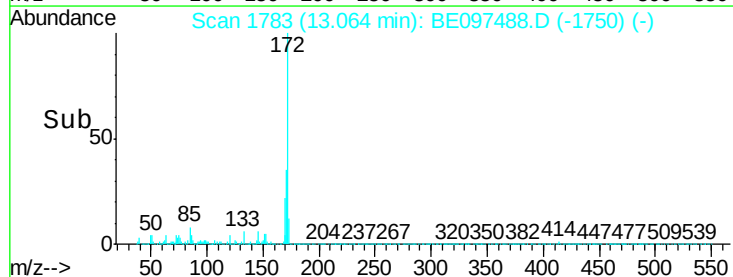
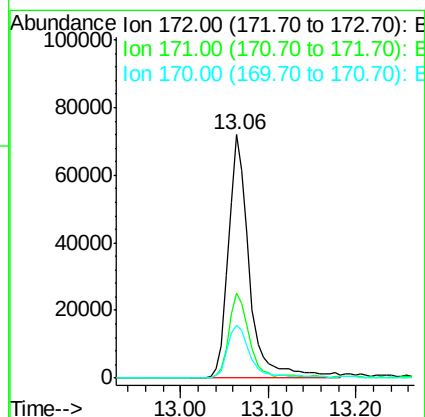
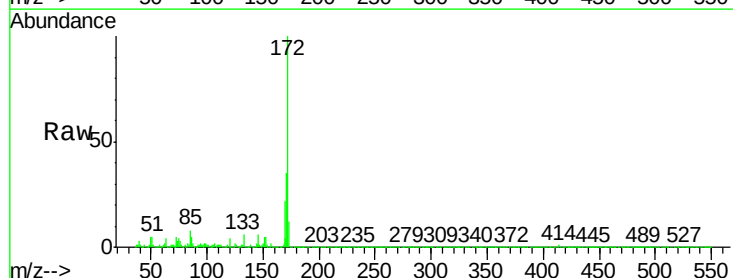
Instrument :
BNA_E
ClientSampleId :
MDL-BLK-W

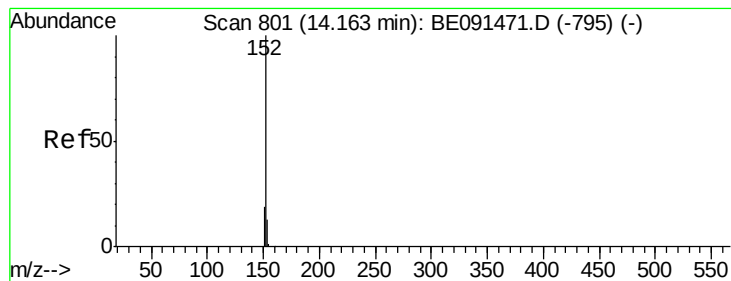
Tgt Ion:330 Resp: 21497
Ion Ratio Lower Upper
330 100
332 96.2 79.2 118.8
141 54.9 28.1 42.1#



#12
2-Fluorobiphenyl
Concen: 4.73 ng
RT: 13.06 min Scan# 1783
Delta R.T. -0.01 min
Lab File: BE097488.D
Acq: 18 Mar 2016 5:38

Tgt Ion:172 Resp: 119655
Ion Ratio Lower Upper
172 100
171 34.7 29.8 44.8
170 21.8 21.4 32.2





#13

Acenaphthylene

Concen: 0.20 ng

RT: 14.16 min Scan# 1970

Delta R.T. 0.00 min

Lab File: BE097488.D

Acq: 18 Mar 2016 5:38

Instrument :

BNA_E

ClientSampled :

MDL-BLK-W

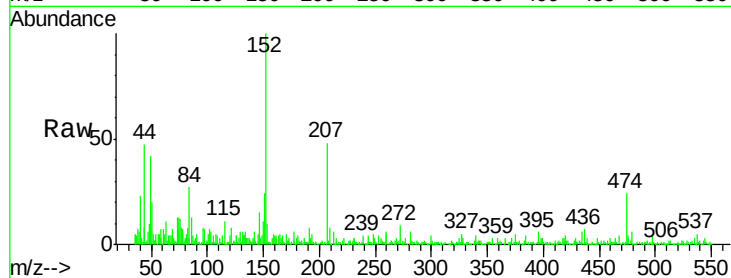
Tgt Ion:152 Resp: 3612

Ion Ratio Lower Upper

152 100

151 19.2 16.3 24.5

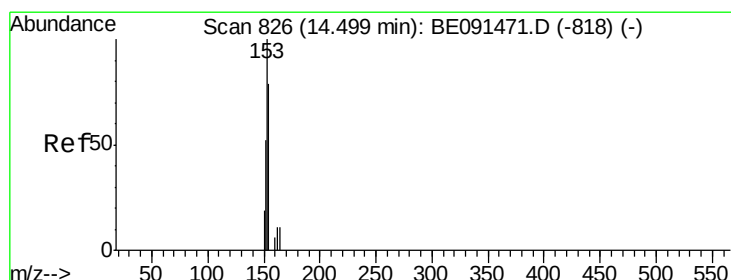
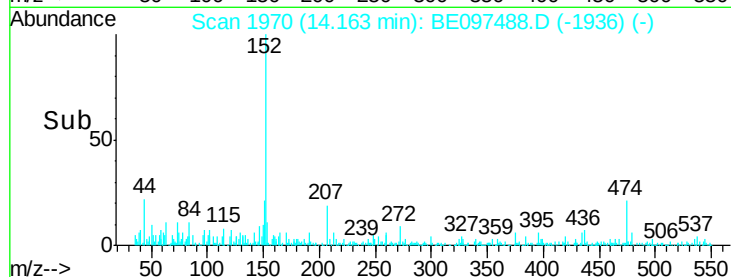
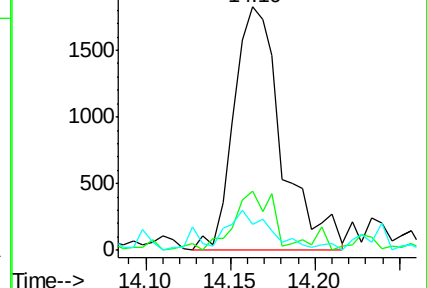
153 13.5 11.1 16.7



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: 0.11 ng

RT: 14.50 min Scan# 2028

Delta R.T. 0.00 min

Lab File: BE097488.D

Acq: 18 Mar 2016 5:38

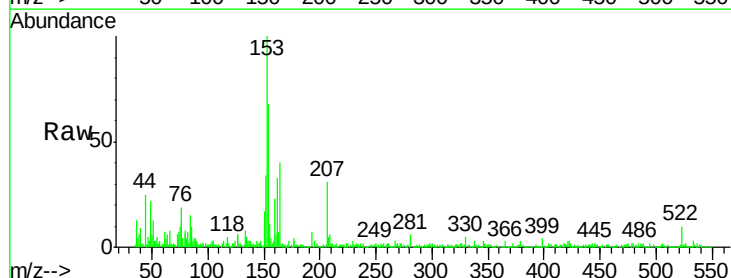
Tgt Ion:154 Resp: 3289

Ion Ratio Lower Upper

154 100

153 115.4 87.3 130.9

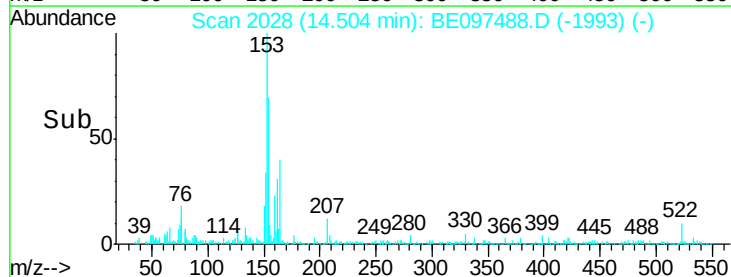
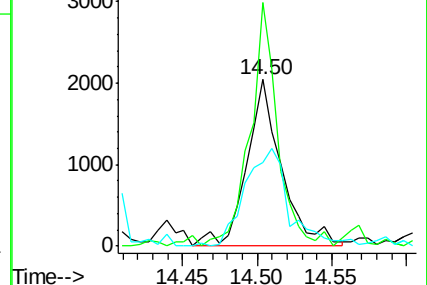
152 74.2 42.9 64.3#

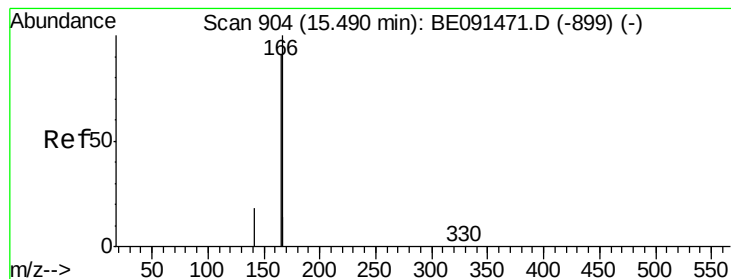


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#15

Fluorene

Concen: 0.10 ng

RT: 15.49 min Scan# 2195

Delta R.T. -0.01 min

Lab File: BE097488.D

Acq: 18 Mar 2016 5:38

Instrument :

BNA_E

ClientSampleId :

MDL-BLK-W

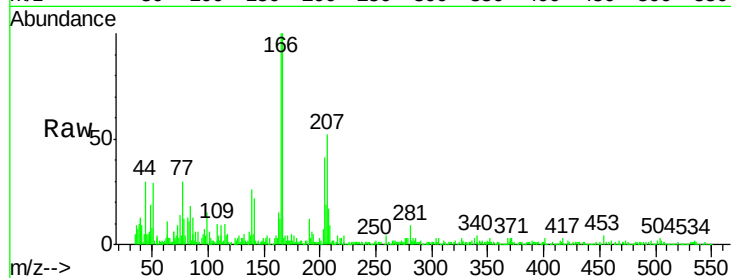
Tgt Ion:166 Resp: 3719

Ion Ratio Lower Upper

166 100

165 111.2 79.2 118.8

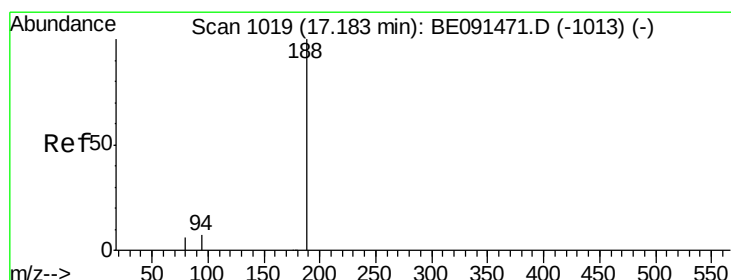
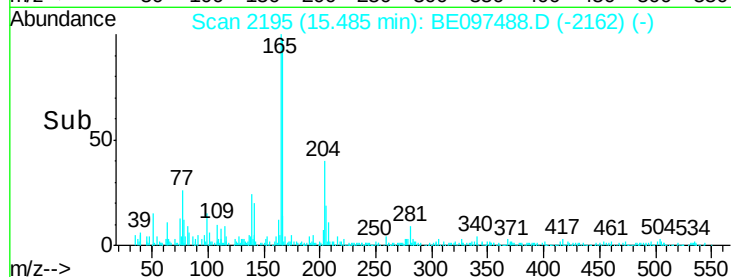
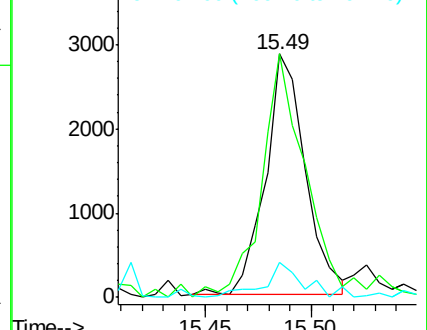
167 14.4 10.8 16.2



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: BE097488.D

Acq: 18 Mar 2016 5:38

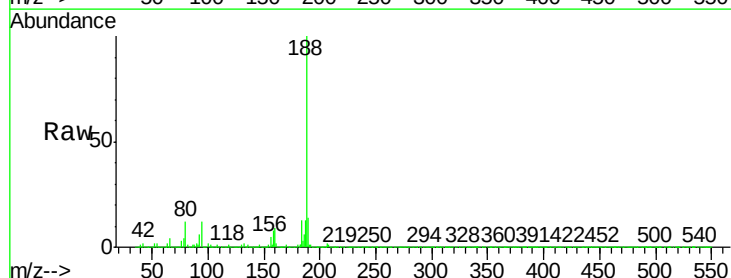
Tgt Ion:188 Resp: 253556

Ion Ratio Lower Upper

188 100

94 12.3 5.4 8.2#

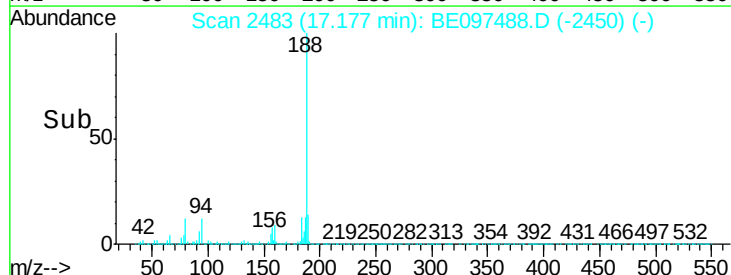
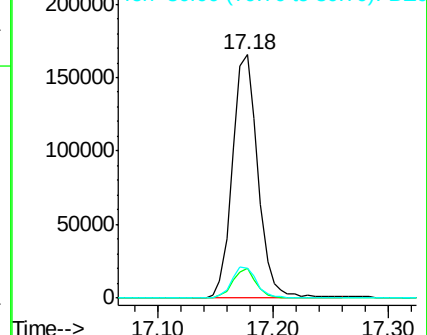
80 12.0 5.0 7.4#

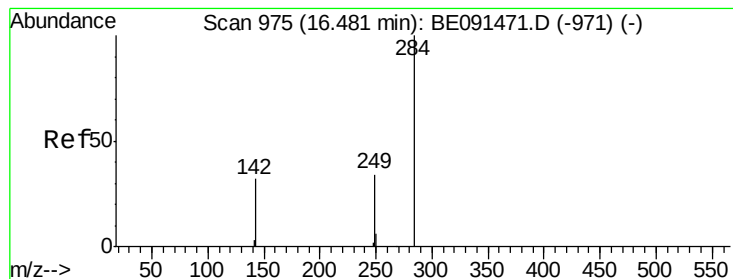


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0





#17

Hexachlorobenzene

Concen: 0.02 ng

RT: 16.53 min Scan# 2373

Delta R.T. 0.05 min

Lab File: BE097488.D

Acq: 18 Mar 2016 5:38

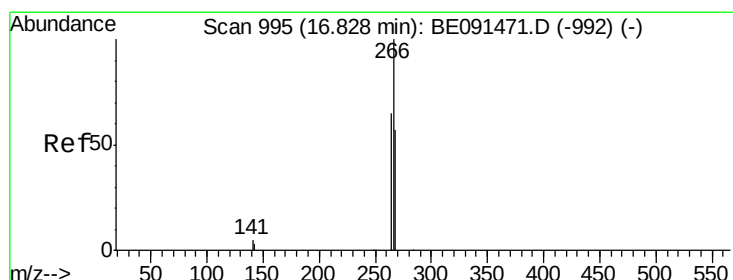
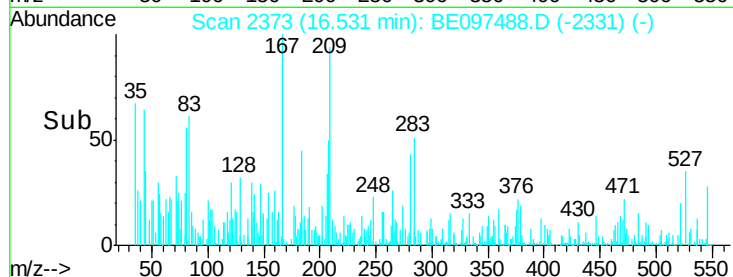
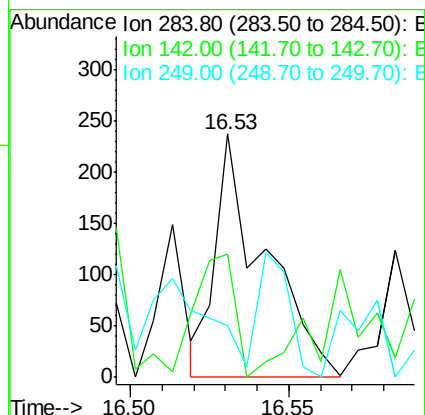
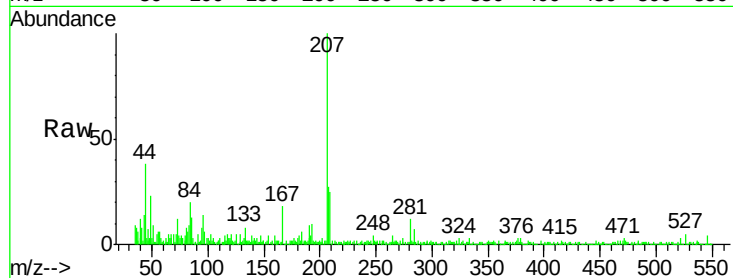
Instrument :

BNA_E

ClientSampleId :

MDL-BLK-W

Tgt Ion:	284	Resp:	255
Ion Ratio	Lower	Upper	
284	100		
142	39.2	31.0	46.4
249	32.5	25.8	38.8



#18

Pentachlorophenol

Concen: 0.44 ng

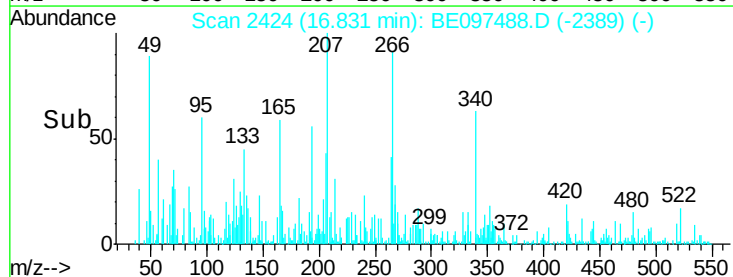
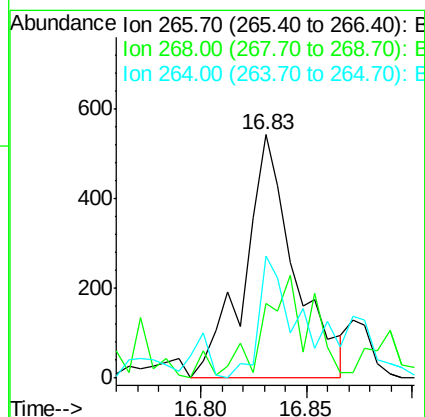
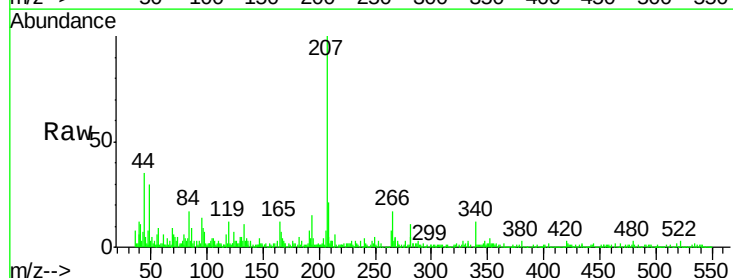
RT: 16.83 min Scan# 2424

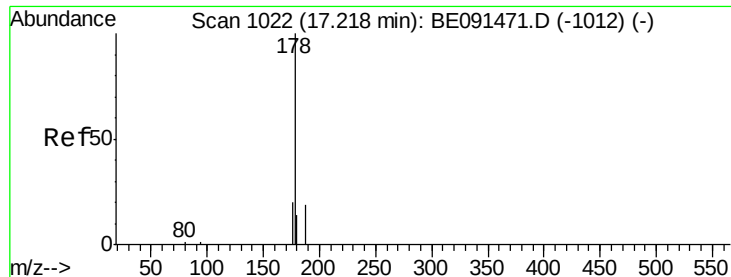
Delta R.T. 0.00 min

Lab File: BE097488.D

Acq: 18 Mar 2016 5:38

Tgt Ion:	266	Resp:	894
Ion Ratio	Lower	Upper	
266	100		
268	30.6	48.2	72.2#
264	50.1	52.1	78.1#





#19

Phenanthrene

Concen: 0.08 ng

RT: 17.31 min Scan# 2506

Delta R.T. 0.09 min

Lab File: BE097488.D

Acq: 18 Mar 2016 5:38

Instrument :

BNA_E

ClientSampleId :

MDL-BLK-W

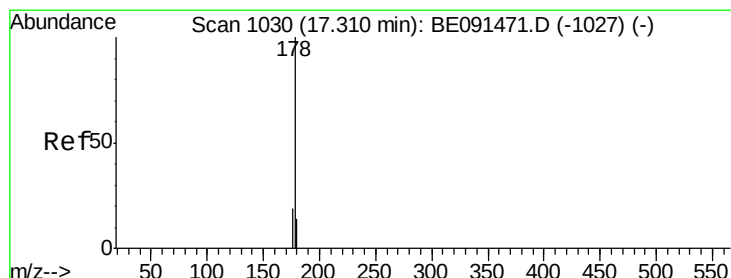
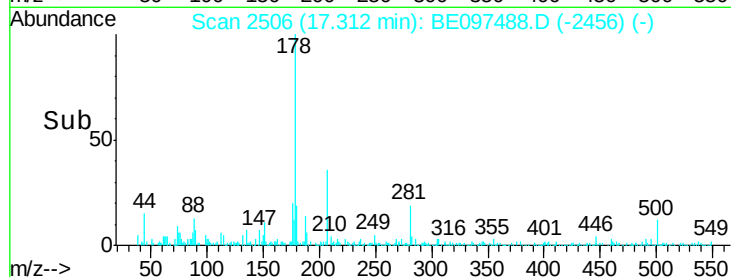
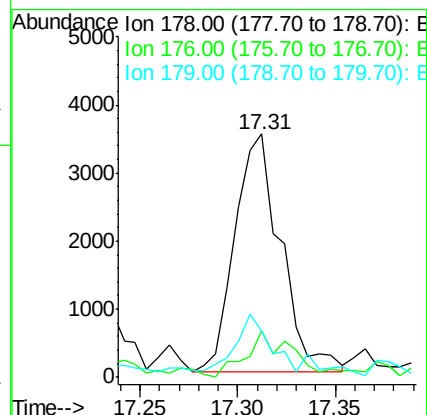
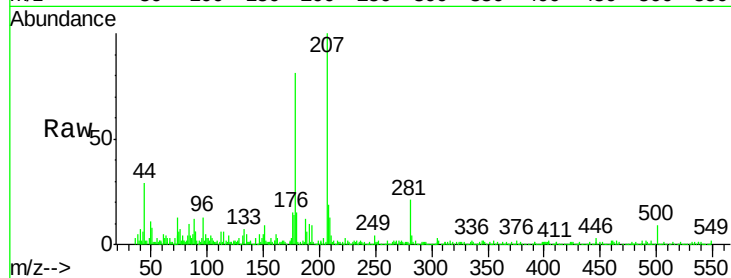
Tgt Ion:178 Resp: 5688

Ion Ratio Lower Upper

178 100

176 20.4 15.5 23.3

179 17.8 13.1 19.7



#20

Anthracene

Concen: 0.09 ng

RT: 17.31 min Scan# 2506

Delta R.T. 0.00 min

Lab File: BE097488.D

Acq: 18 Mar 2016 5:38

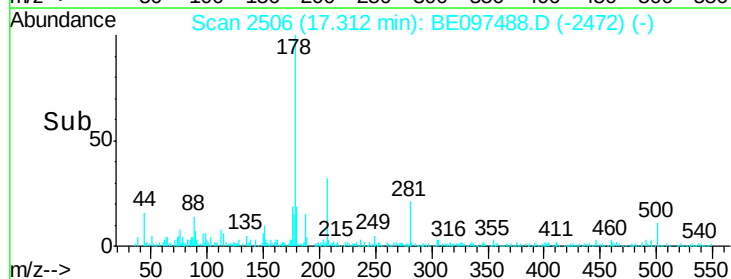
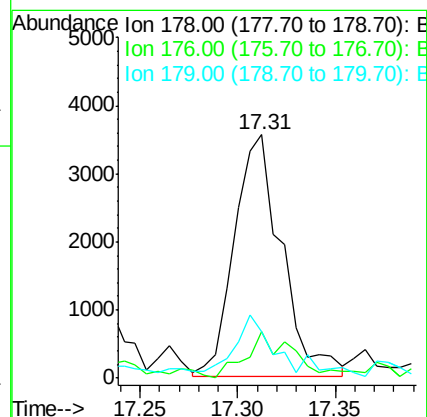
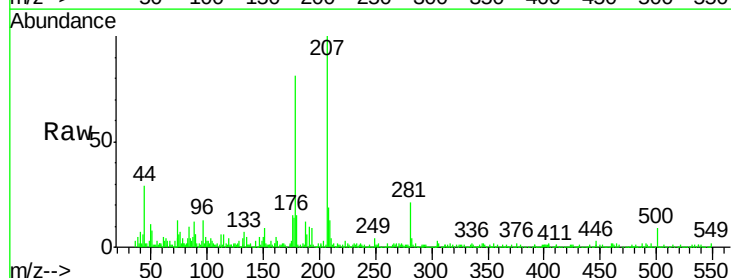
Tgt Ion:178 Resp: 5949

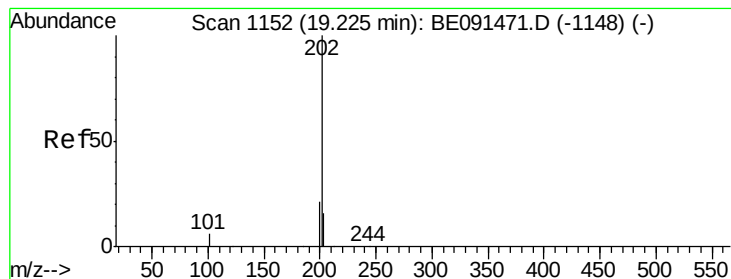
Ion Ratio Lower Upper

178 100

176 19.5 14.9 22.3

179 17.0 12.2 18.4





#21

Fluoranthene

Concen: 0.10 ng

RT: 19.23 min Scan# 2832

Delta R.T. 0.00 min

Lab File: BE097488.D

Acq: 18 Mar 2016 5:38

Instrument :

BNA_E

ClientSampleId :

MDL-BLK-W

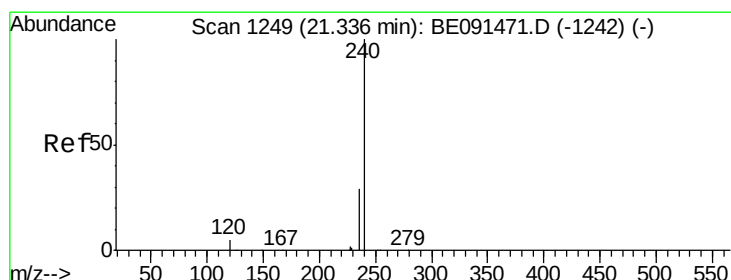
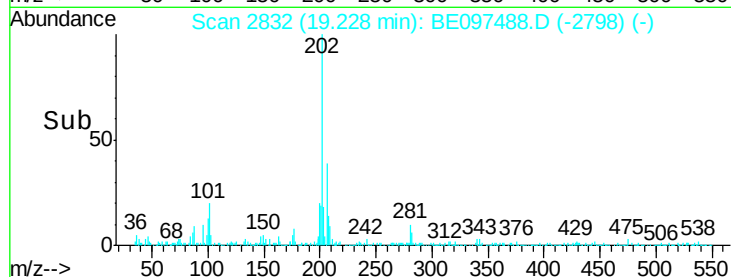
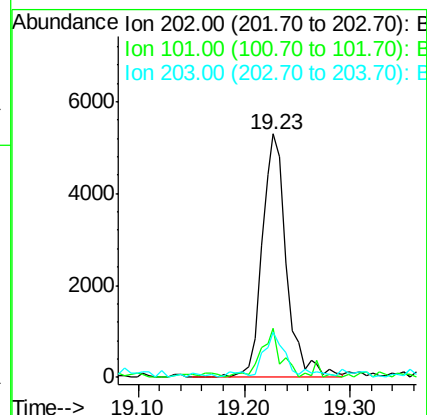
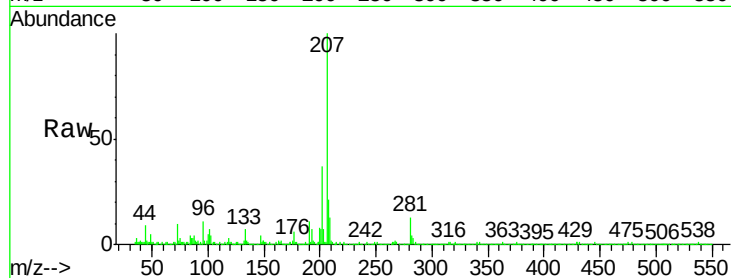
Tgt Ion:202 Resp: 8518

Ion Ratio Lower Upper

202 100

101 15.5 8.3 12.5#

203 14.0 13.9 20.9



#22

Chrysene-d12

Concen: 5.00 ng

RT: 21.34 min Scan# 3191

Delta R.T. 0.00 min

Lab File: BE097488.D

Acq: 18 Mar 2016 5:38

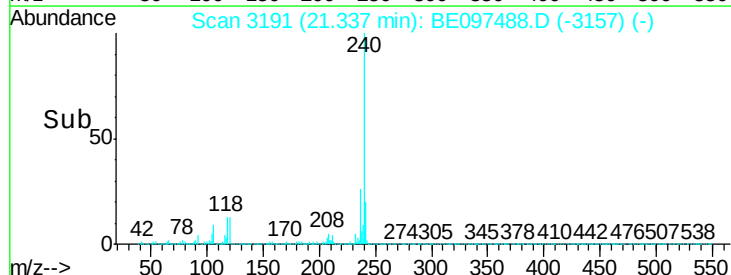
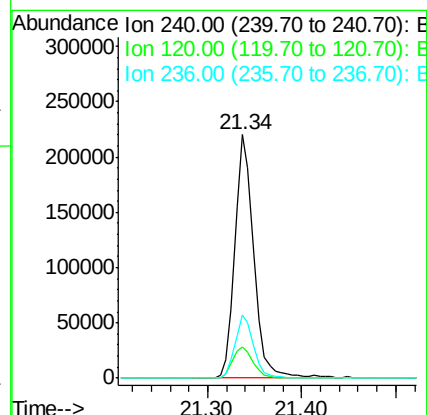
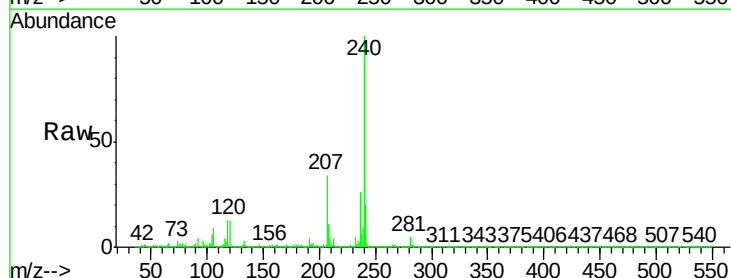
Tgt Ion:240 Resp: 307121

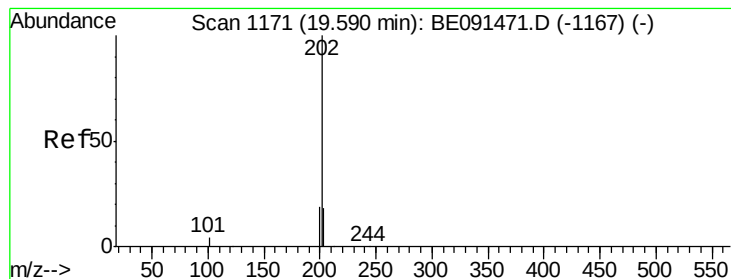
Ion Ratio Lower Upper

240 100

120 13.0 4.0 6.0#

236 26.0 23.0 34.4





#23

Pyrene

Concen: 0.11 ng

RT: 19.59 min Scan# 2893

Delta R.T. -0.00 min

Lab File: BE097488.D

Acq: 18 Mar 2016 5:38

Instrument :

BNA_E

ClientSampleId :

MDL-BLK-W

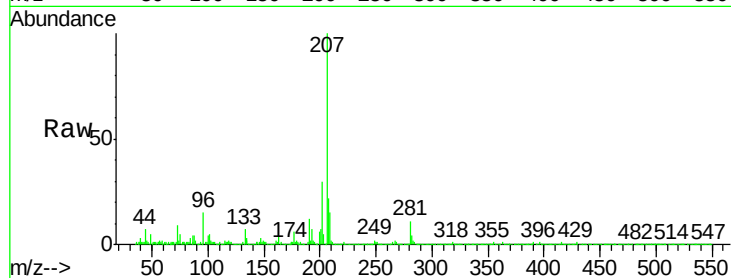
Tgt Ion: 202 Resp: 8505

Ion Ratio Lower Upper

202 100

200 21.2 16.4 24.6

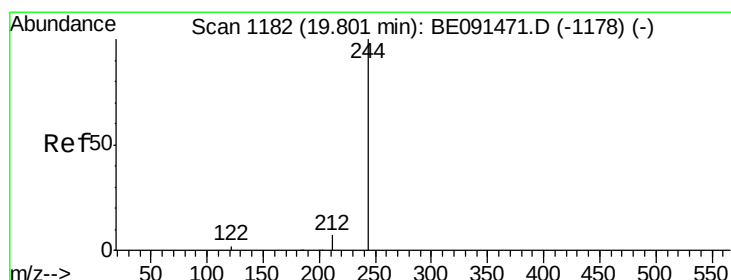
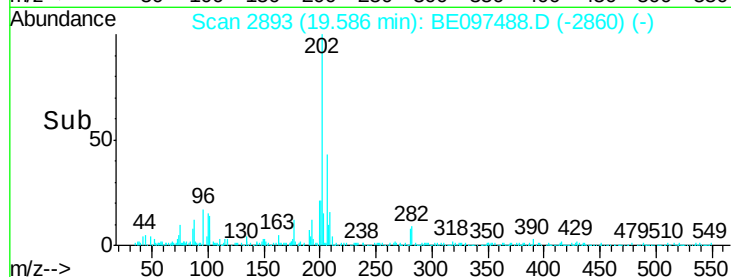
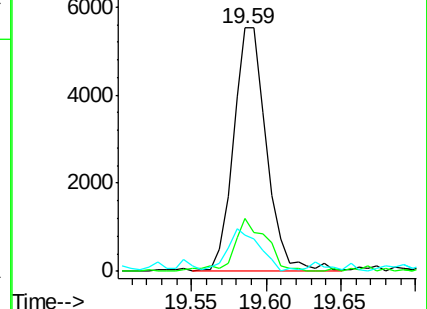
203 16.1 14.6 21.8



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: 5.50 ng

RT: 19.79 min Scan# 2928

Delta R.T. -0.01 min

Lab File: BE097488.D

Acq: 18 Mar 2016 5:38

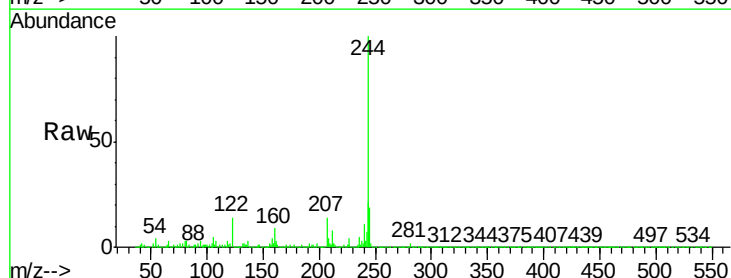
Tgt Ion: 244 Resp: 203206

Ion Ratio Lower Upper

244 100

212 7.9 5.8 8.8

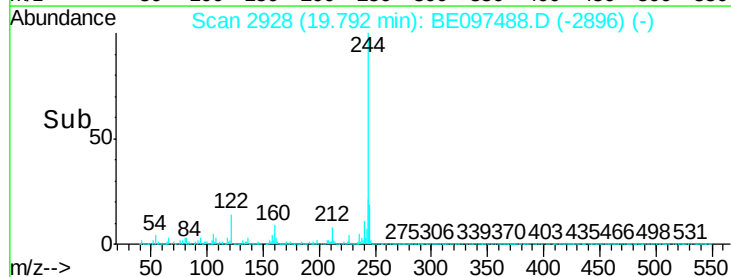
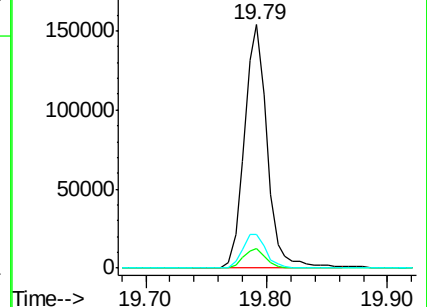
122 14.0 1.8 2.8#

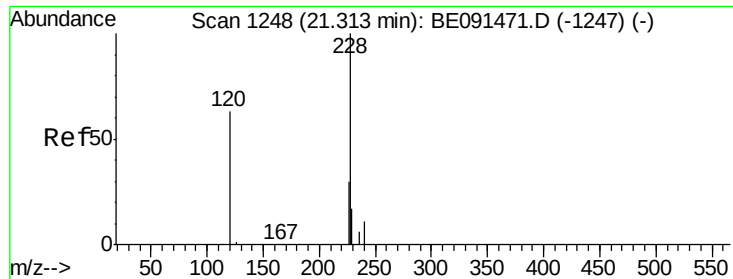


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#25

Benzo(a)anthracene

Concen: 0.11 ng

RT: 21.33 min Scan# 3189

Delta R.T. 0.01 min

Lab File: BE097488.D

Acq: 18 Mar 2016 5:38

Instrument :

BNA_E

ClientSampleId :

MDL-BLK-W

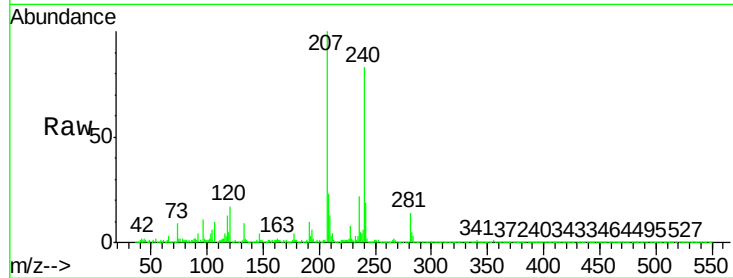
Tgt Ion:228 Resp: 8979

Ion Ratio Lower Upper

228 100

226 29.0 24.0 36.0

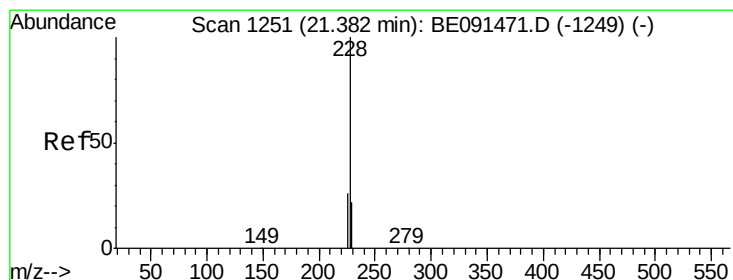
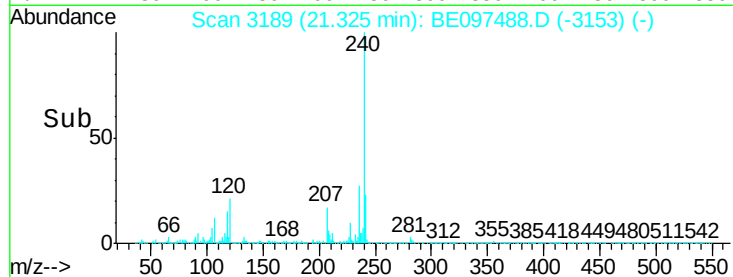
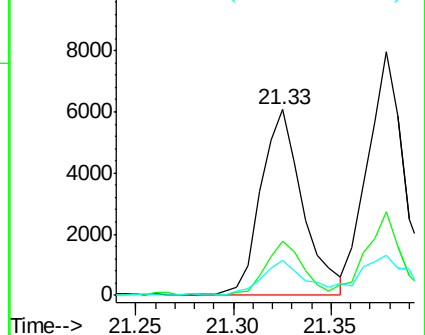
229 18.8 13.8 20.6



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: 0.02 ng

RT: 21.38 min Scan# 3198

Delta R.T. -0.00 min

Lab File: BE097488.D

Acq: 18 Mar 2016 5:38

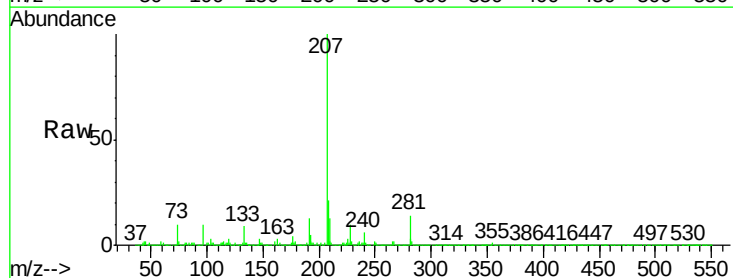
Tgt Ion:228 Resp: 10659

Ion Ratio Lower Upper

228 100

226 34.2 18.9 28.3#

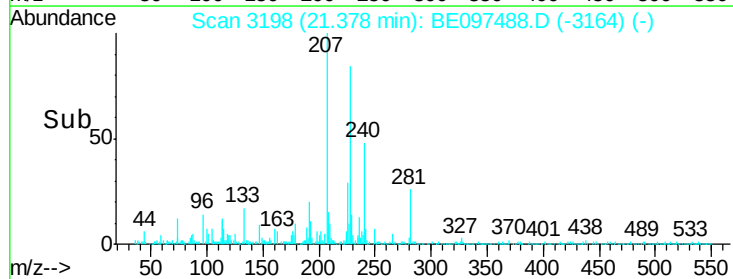
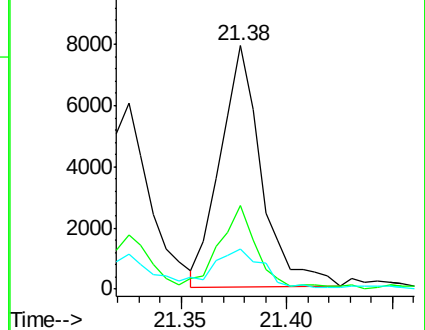
229 16.4 19.1 28.7#

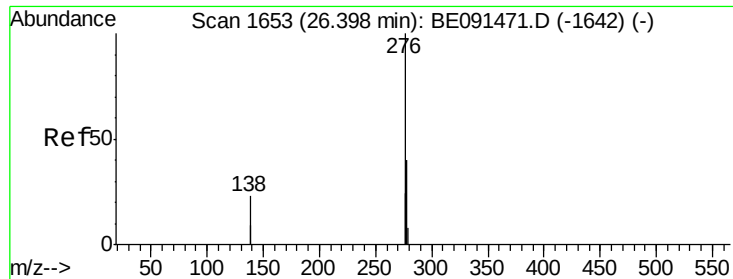


Abundance Ion 228.00 (227.70 to 228.70): E

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: 0.08 ng

RT: 26.41 min Scan# 4054

Delta R.T. 0.01 min

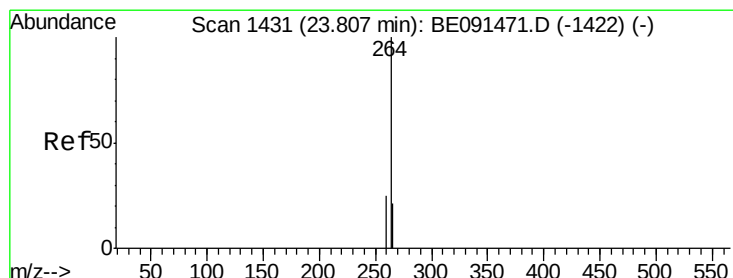
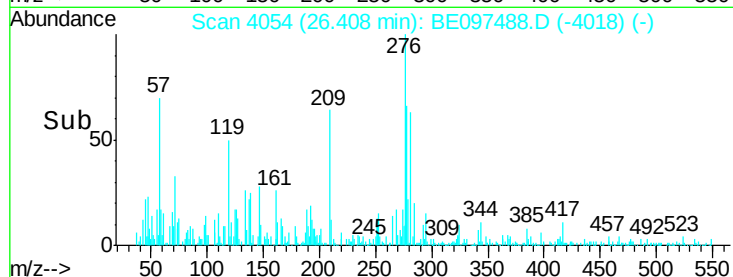
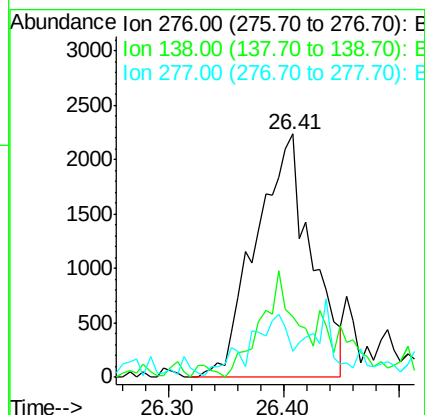
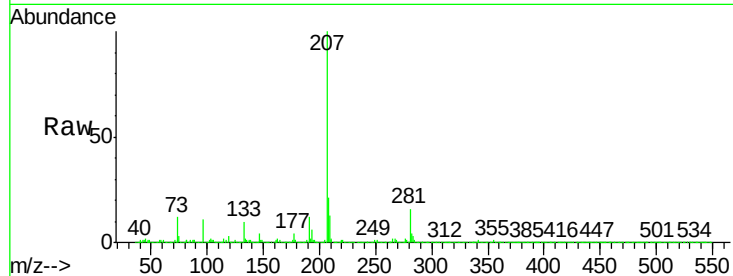
Lab File: BE097488.D

Acq: 18 Mar 2016 5:38

Instrument :
BNA_E
ClientSampleId :
MDL-BLK-W

Tgt Ion: 276 Resp: 7426

Ion	Ratio	Lower	Upper
276	100		
138	28.0	20.2	30.4
277	18.0	19.8	29.8#



#28

Perylene-d12

Concen: 5.00 ng

RT: 23.80 min Scan# 3611

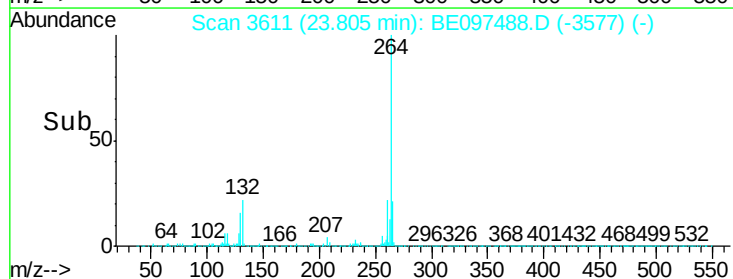
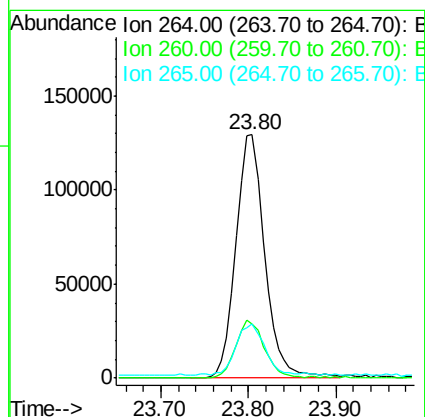
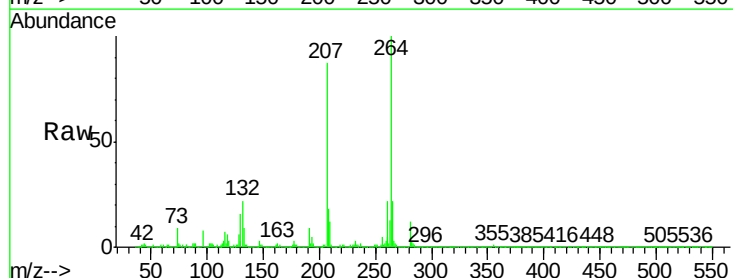
Delta R.T. -0.00 min

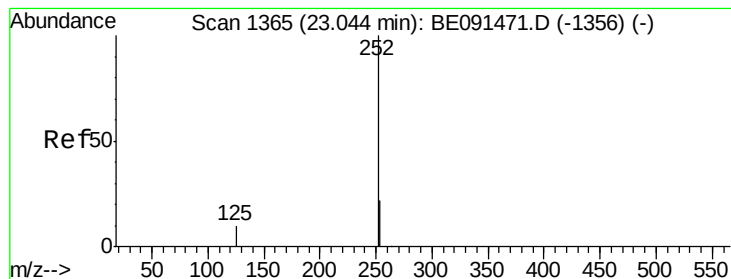
Lab File: BE097488.D

Acq: 18 Mar 2016 5:38

Tgt Ion: 264 Resp: 290518

Ion	Ratio	Lower	Upper
264	100		
260	22.3	20.1	30.1
265	22.1	18.3	27.5





#29

Benzo(b)fluoranthene

Concen: 0.09 ng

RT: 23.05 min Scan# 3482

Delta R.T. 0.00 min

Lab File: BE097488.D

Acq: 18 Mar 2016 5:38

Instrument :

BNA_E

ClientSampleId :

MDL-BLK-W

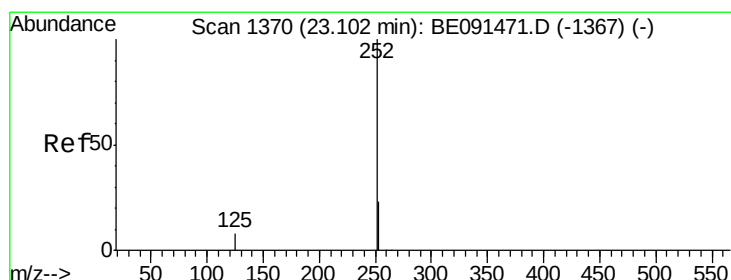
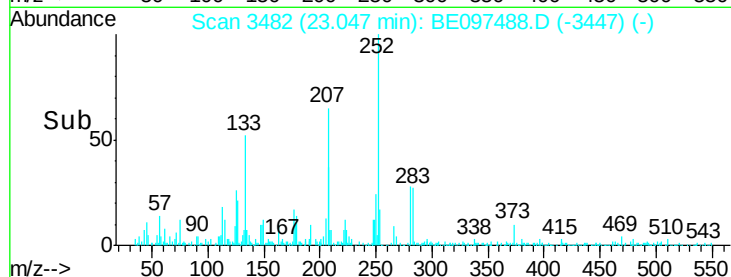
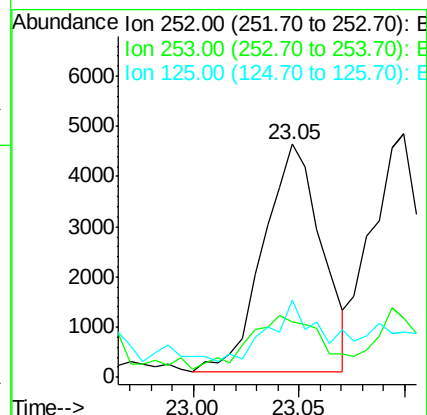
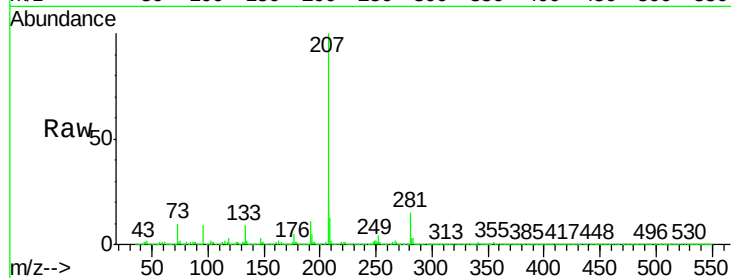
Tgt Ion:252 Resp: 8673

Ion Ratio Lower Upper

252 100

253 23.5 18.7 28.1

125 33.0 9.8 14.6#



#30

Benzo(k)fluoranthene

Concen: 0.10 ng

RT: 23.10 min Scan# 3491

Delta R.T. -0.00 min

Lab File: BE097488.D

Acq: 18 Mar 2016 5:38

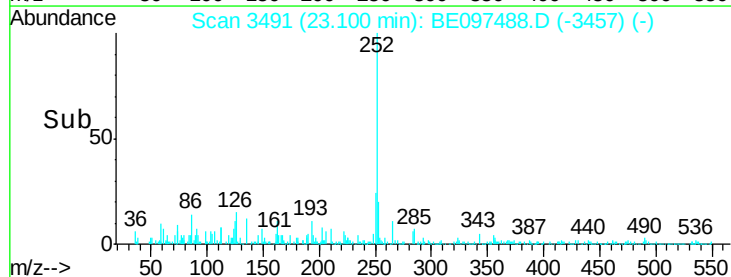
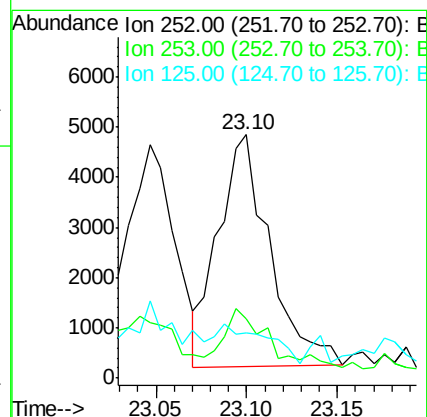
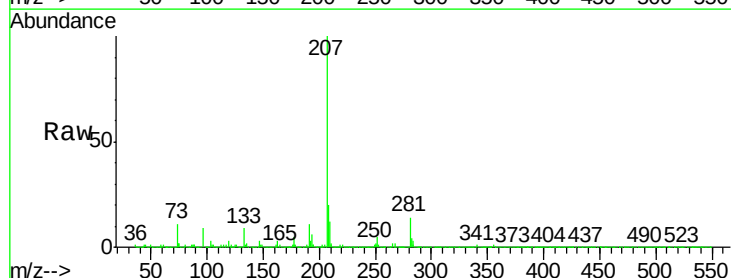
Tgt Ion:252 Resp: 9112

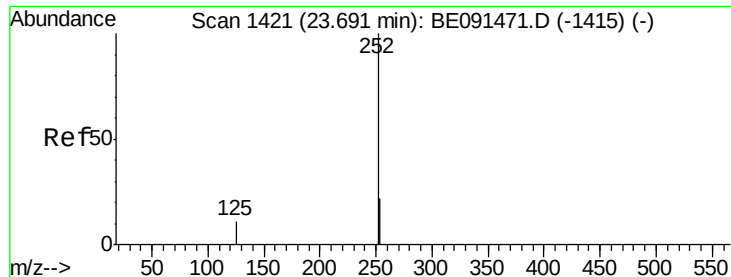
Ion Ratio Lower Upper

252 100

253 24.5 20.2 30.4

125 18.4 9.4 14.2#





#31

Benzo(a)pyrene

Concen: 0.09 ng

RT: 23.70 min Scan# 3593

Delta R.T. 0.01 min

Lab File: BE097488.D

Acq: 18 Mar 2016 5:38

Instrument :

BNA_E

ClientSampleId :

MDL-BLK-W

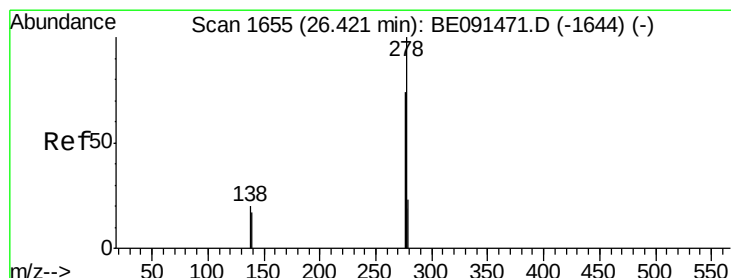
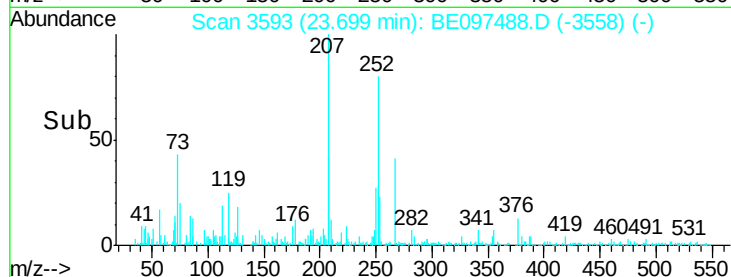
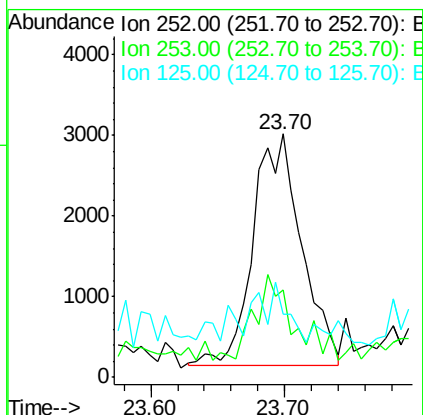
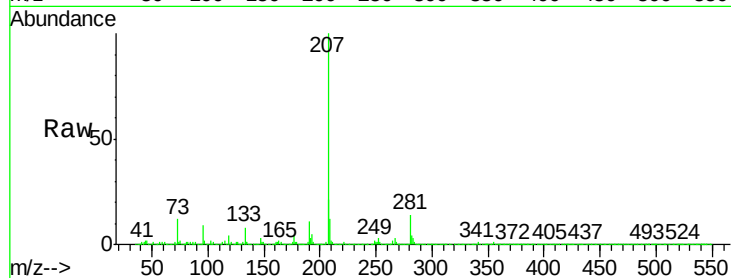
Tgt Ion:252 Resp: 7172

Ion Ratio Lower Upper

252 100

253 35.8 19.4 29.0#

125 26.1 11.4 17.2#



#32

Dibenzo(a,h)anthracene

Concen: 0.09 ng

RT: 26.42 min Scan# 4056

Delta R.T. -0.00 min

Lab File: BE097488.D

Acq: 18 Mar 2016 5:38

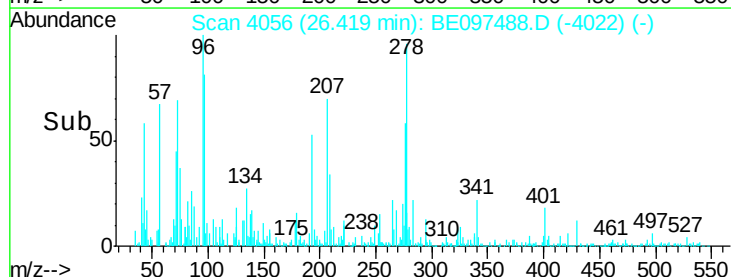
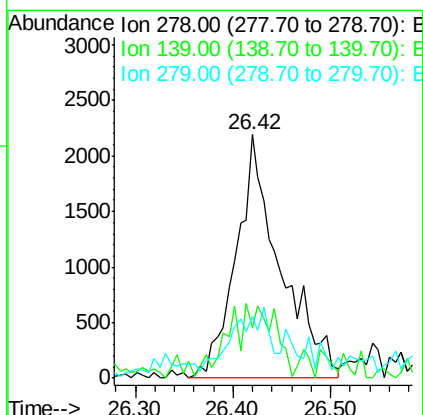
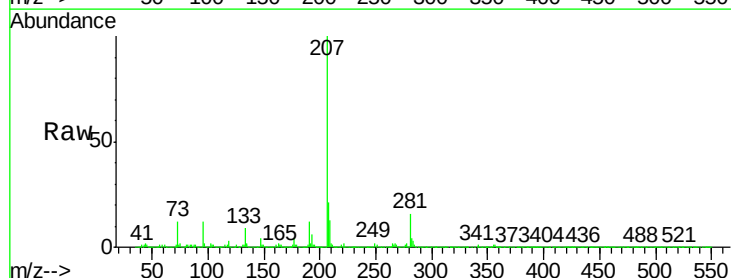
Tgt Ion:278 Resp: 6938

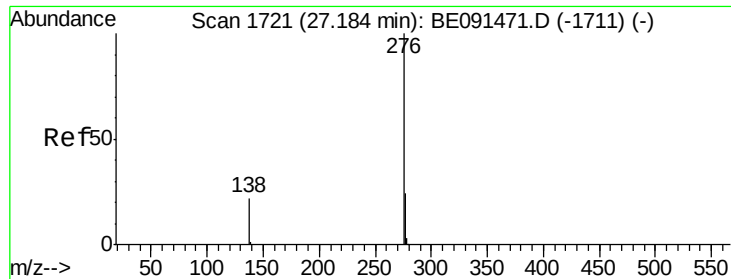
Ion Ratio Lower Upper

278 100

139 18.0 14.2 21.4

279 21.9 19.6 29.4





#33

Benzo(g,h,i)perylene

Concen: 0.05 ng

RT: 27.18 min Scan# 4186

Delta R.T. -0.00 min

Lab File: BE097488.D

Acq: 18 Mar 2016 5:38

Instrument :

BNA_E

ClientSampleId :

MDL-BLK-W

Tgt Ion: 276 Resp: 4103

Ion Ratio Lower Upper

276 100

277 24.6 19.4 29.2

138 33.8 18.2 27.4#

