

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE031816\
 Data File : BE097485.D
 Acq On : 18 Mar 2016 3:12
 Operator : UM/SJ
 Sample : MDL-BLK-W
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 MDL-05-W

Quant Time: Mar 18 04:57:54 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	44844	5.00	ng	0.00
6) Naphthalene-d8	10.61	136	198676	5.00	ng	0.00
10) Acenaphthene-d10	14.44	164	115886	5.00	ng	0.00
16) Phenanthrene-d10	17.18	188	284399	5.00	ng	0.00
22) Chrysene-d12	21.34	240	347568	5.00	ng	0.00
28) Perylene-d12	23.80	264	327906	5.00	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.42	112	84909	8.24	ng	0.00
5) Phenol-d6	6.99	99	105745	7.86	ng	0.00
7) Nitrobenzene-d5	8.98	82	37411	3.51	ng	0.00
11) 2,4,6-Tribromophenol	15.92	330	22576	5.37	ng	0.00
12) 2-Fluorobiphenyl	13.07	172	123602	4.24	ng	0.00
24) Terphenyl-d14	19.79	244	213920	5.12	ng	-0.01

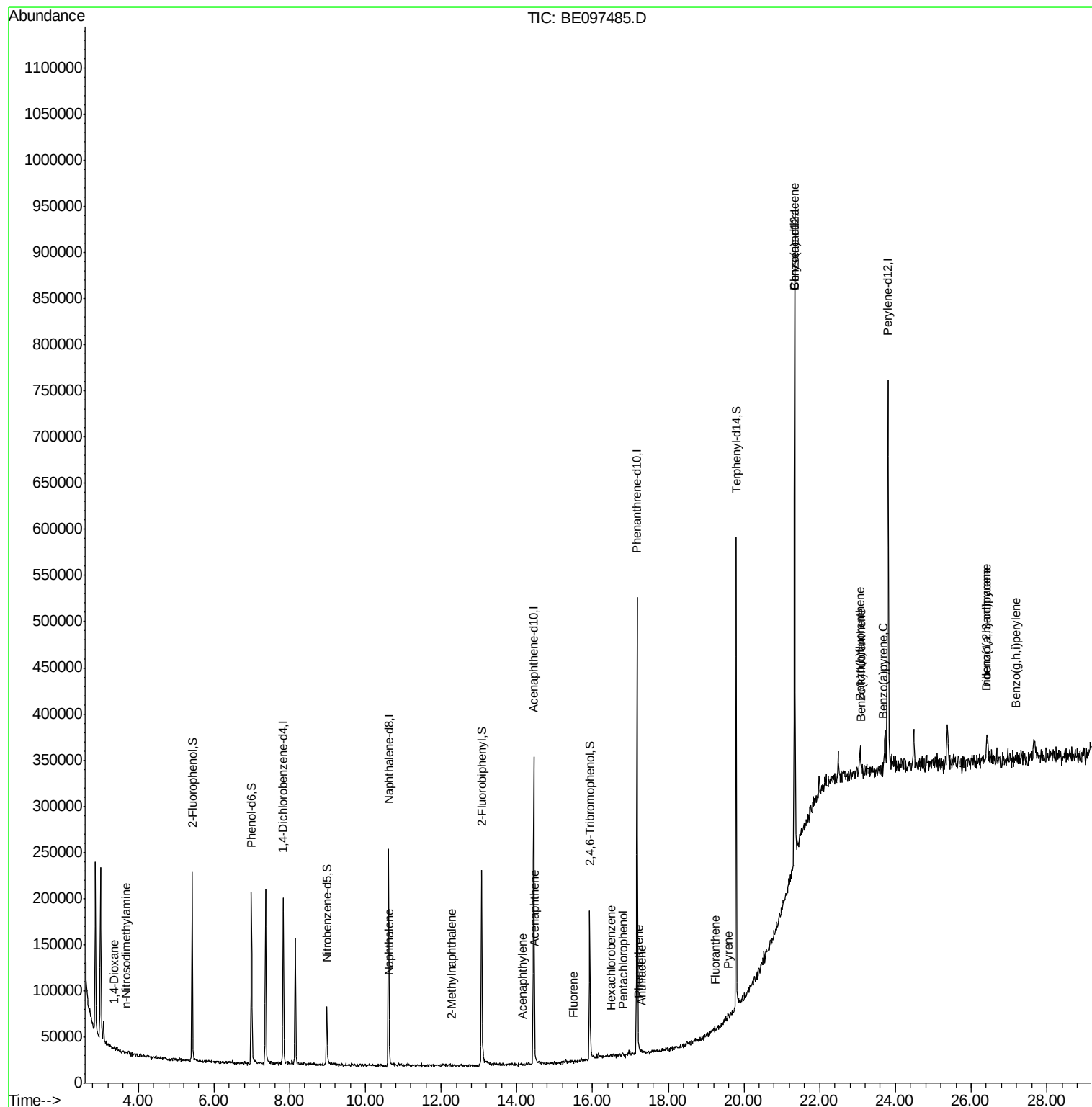
Target Compounds						Qvalue
2) 1,4-Dioxane	3.35	88	703	0.13	ng	# 44
3) n-Nitrosodimethylamine	3.67	42	143	0.02	ng	# 4
8) Naphthalene	10.64	128	72	0.00	ng	# 77
9) 2-Methylnaphthalene	12.28	142	16	0.00	ng	# 67
13) Acenaphthylene	14.16	152	49	0.14	ng	# 1
14) Acenaphthene	14.47	154	144	0.00	ng	# 23
15) Fluorene	15.50	166	134	0.00	ng	# 20
17) Hexachlorobenzene	16.48	284	45	0.00	ng	# 1
18) Pentachlorophenol	16.81	266	10	0.31	ng	# 1
19) Phenanthrene	17.22	178	414	0.01	ng	# 24
20) Anthracene	17.29	178	142	0.00	ng	# 54
21) Fluoranthene	19.24	202	498	0.01	ng	# 47
23) Pyrene	19.57	202	439	0.01	ng	# 3
25) Benzo(a)anthracene	21.34	228	1852	0.02	ng	# 72
26) Chrysene	21.38	228	2270	Below Cal		# 84
27) Indeno(1,2,3-cd)pyrene	26.41	276	196	0.00	ng	# 1
29) Benzo(b)fluoranthene	23.06	252	1538	0.01	ng	# 33
30) Benzo(k)fluoranthene	23.10	252	1836	0.02	ng	# 75
31) Benzo(a)pyrene	23.69	252	208	0.00	ng	# 1
32) Dibenzo(a,h)anthracene	26.41	278	88	0.00	ng	# 1
33) Benzo(g,h,i)perylene	27.19	276	27	0.00	ng	# 1

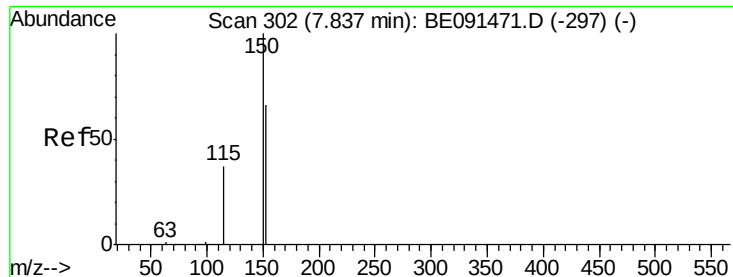
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE031816\
Data File : BE097485.D
Acq On : 18 Mar 2016 3:12
Operator : UM/SJ
Sample : MDL-BLK-W
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
MDL-05-W

Quant Time: Mar 18 04:57:54 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: BE097485.D

Acq: 18 Mar 2016 3:12

Instrument :

BNA_E

ClientSampleId :

MDL-05-W

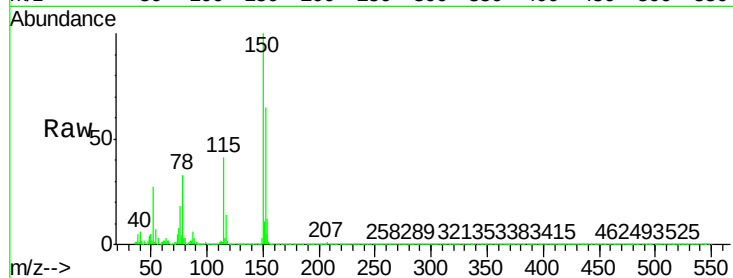
Tgt Ion:152 Resp: 44844

Ion Ratio Lower Upper

152 100

150 154.5 122.2 183.2

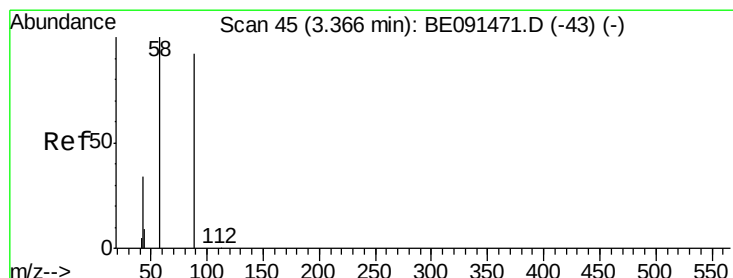
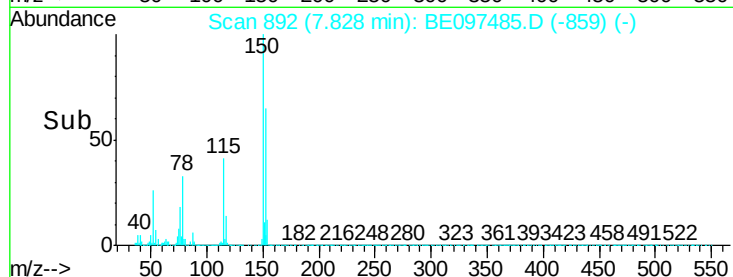
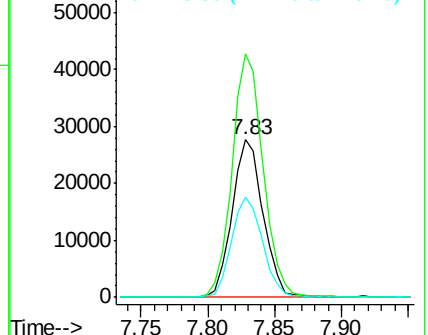
115 63.3 45.9 68.9



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: 0.13 ng

RT: 3.35 min Scan# 129

Delta R.T. -0.02 min

Lab File: BE097485.D

Acq: 18 Mar 2016 3:12

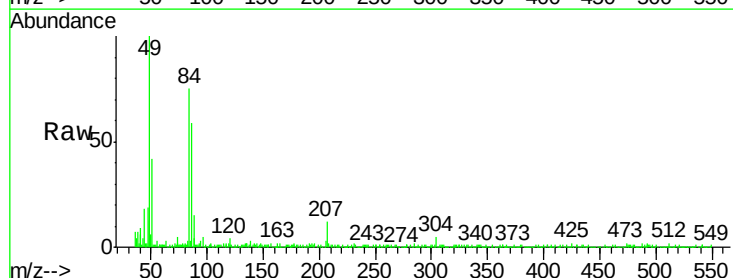
Tgt Ion: 88 Resp: 703

Ion Ratio Lower Upper

88 100

58 15.8 61.0 91.6#

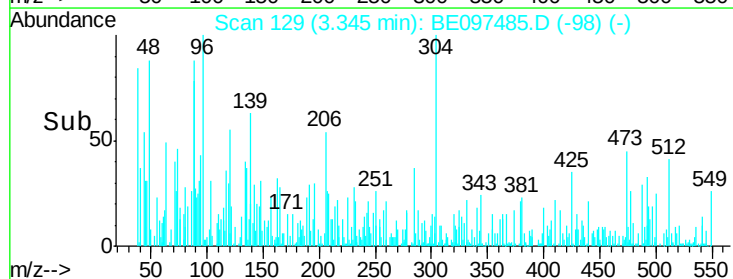
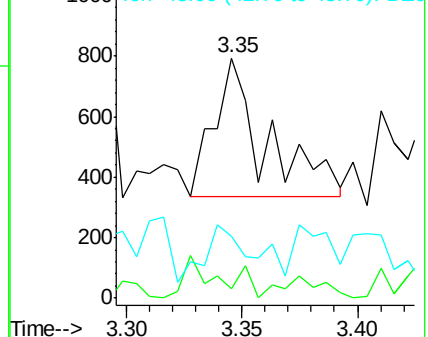
43 19.6 25.4 38.2#

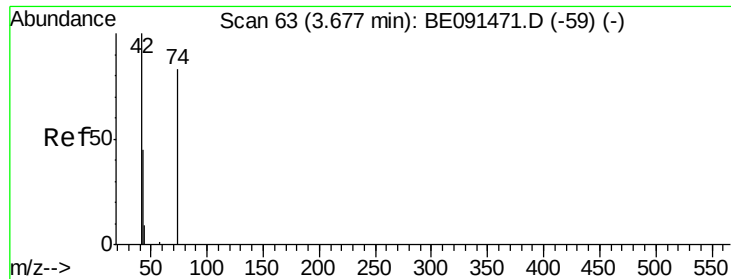


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#3

n-Nitrosodimethylamine

Concen: 0.02 ng

RT: 3.67 min Scan# 184

Delta R.T. -0.01 min

Lab File: BE097485.D

Acq: 18 Mar 2016 3:12

Instrument :

BNA_E

ClientSampleId :

MDL-05-W

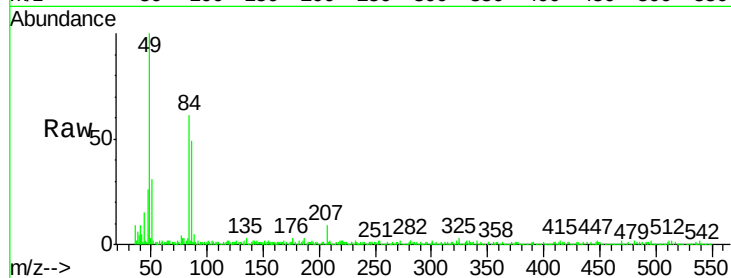
Tgt Ion: 42 Resp: 143

Ion Ratio Lower Upper

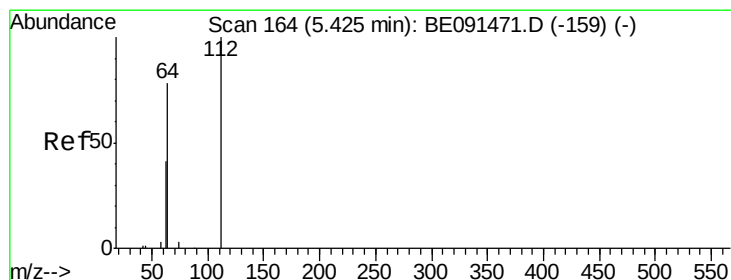
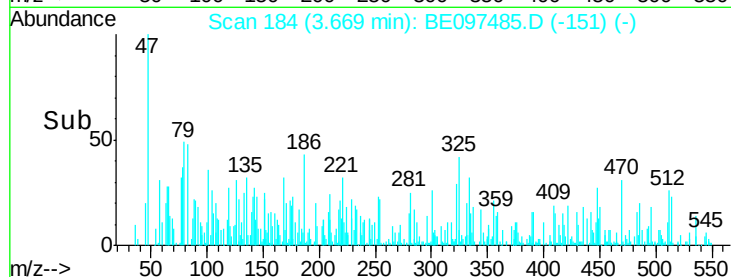
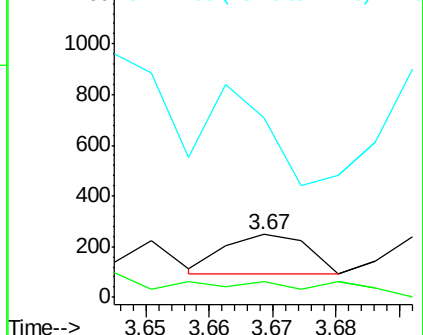
42 100

74 0.0 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: 8.24 ng

RT: 5.42 min Scan# 482

Delta R.T. -0.01 min

Lab File: BE097485.D

Acq: 18 Mar 2016 3:12

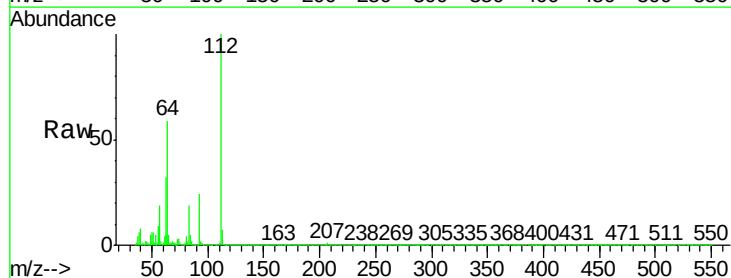
Tgt Ion: 112 Resp: 84909

Ion Ratio Lower Upper

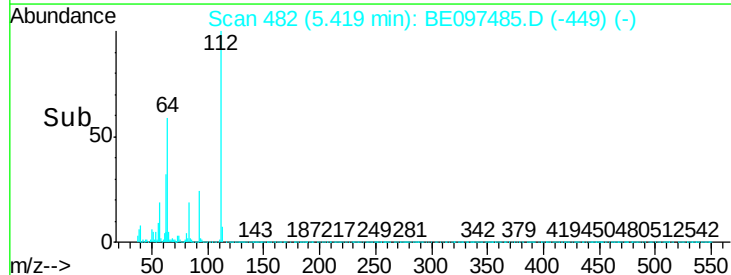
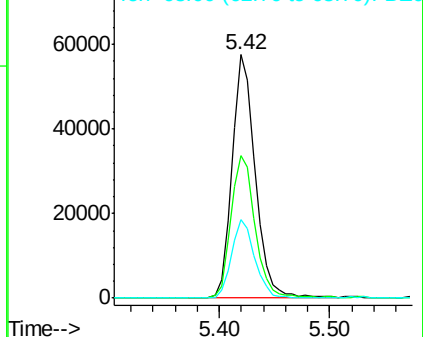
112 100

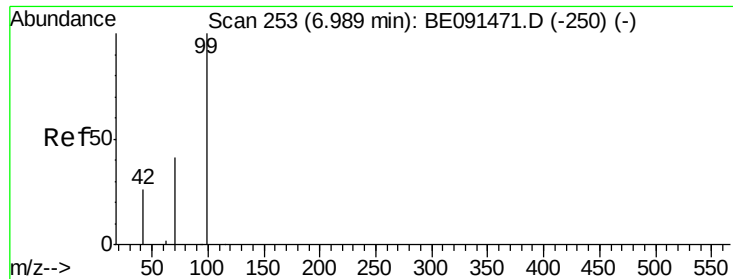
64 61.3 53.3 79.9

63 32.5 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: 7.86 ng

RT: 6.99 min Scan# 749

Delta R.T. -0.00 min

Lab File: BE097485.D

Acq: 18 Mar 2016 3:12

Instrument :

BNA_E

ClientSampleId :

MDL-05-W

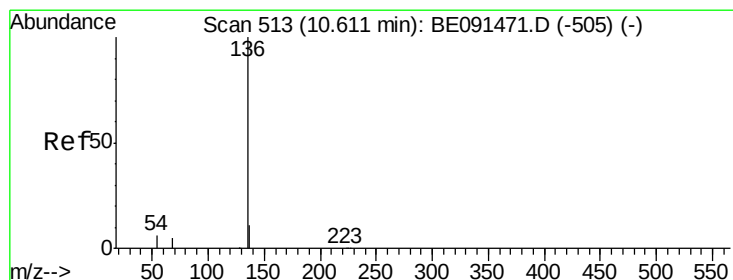
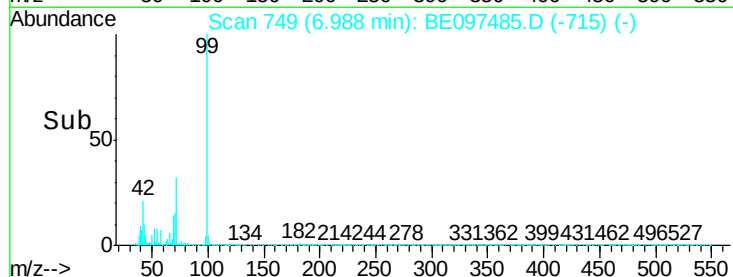
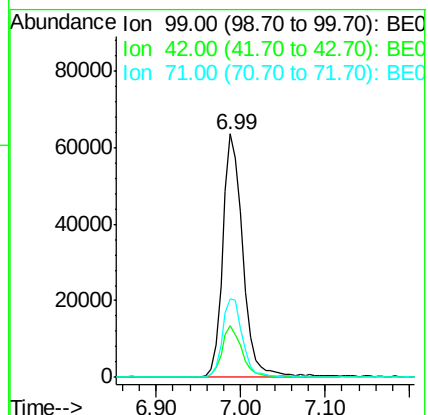
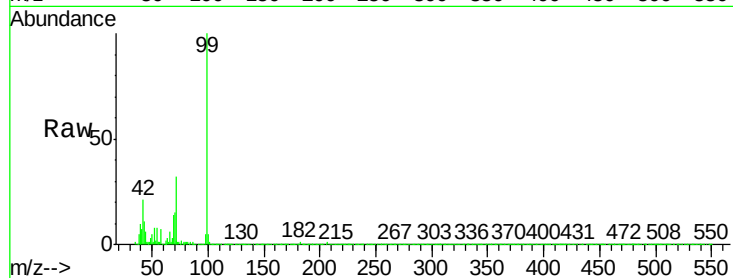
Tgt Ion: 99 Resp: 105745

Ion Ratio Lower Upper

99 100

42 20.8 20.6 30.8

71 32.2 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: BE097485.D

Acq: 18 Mar 2016 3:12

Tgt Ion: 136 Resp: 198676

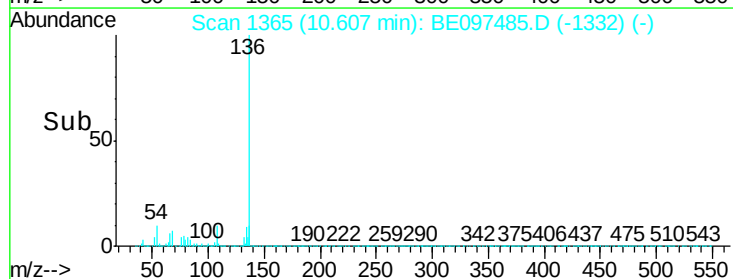
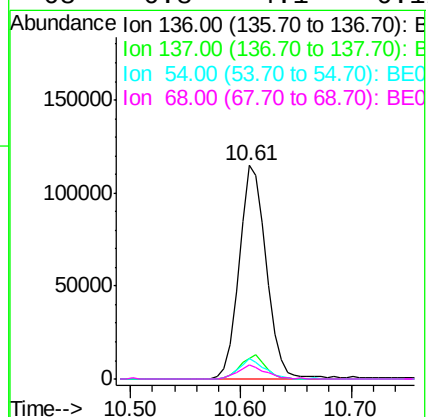
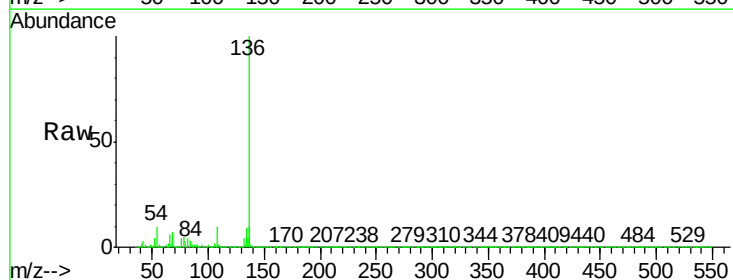
Ion Ratio Lower Upper

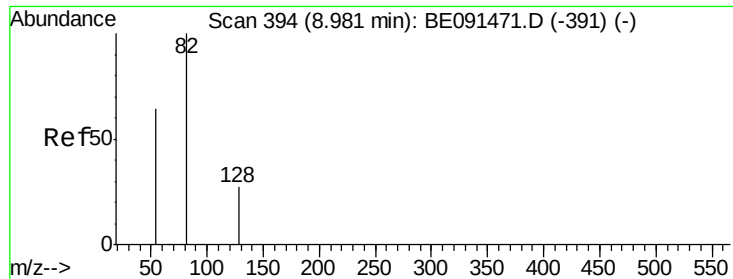
136 100

137 9.6 8.8 13.2

54 9.6 5.2 7.8#

68 6.8 4.1 6.1#





#7

Nitrobenzene-d5

Concen: 3.51 ng

RT: 8.98 min Scan# 1088

Delta R.T. -0.00 min

Lab File: BE097485.D

Acq: 18 Mar 2016 3:12

Instrument :

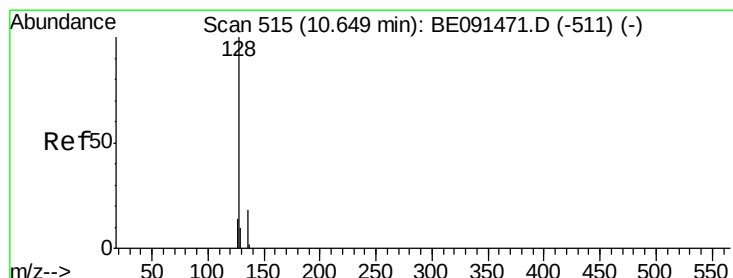
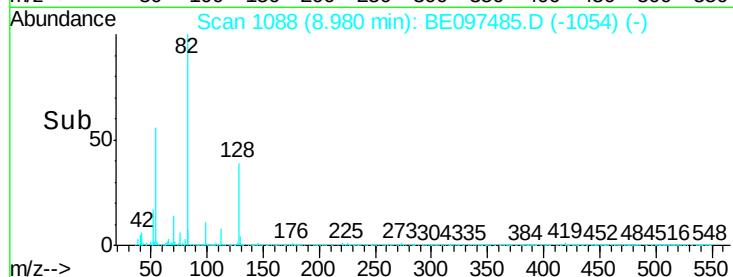
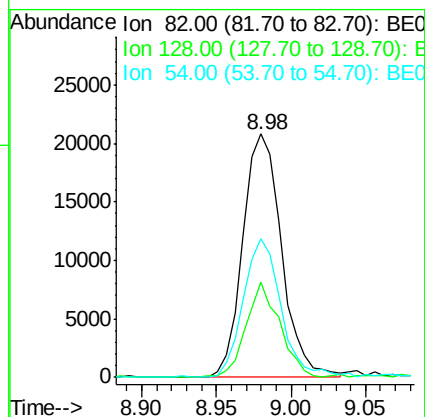
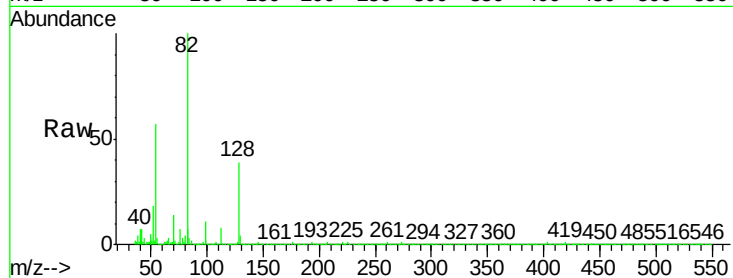
BNA_E

ClientSampled :

MDL-05-W

Tgt Ion: 82 Resp: 37411

Ion	Ratio	Lower	Upper
82	100		
128	39.1	23.5	35.3#
54	57.0	52.4	78.6



#8

Naphthalene

Concen: 0.00 ng

RT: 10.64 min Scan# 1370

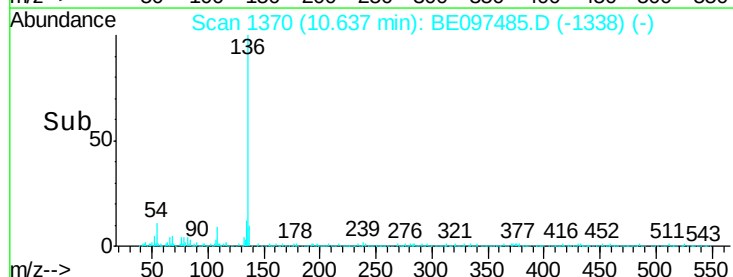
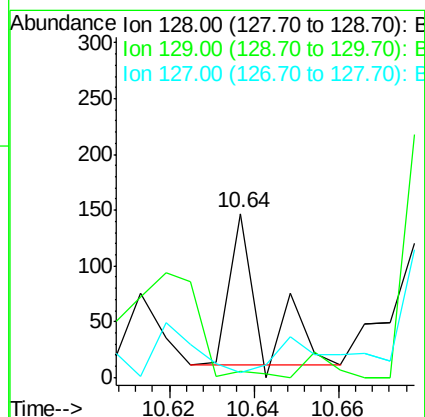
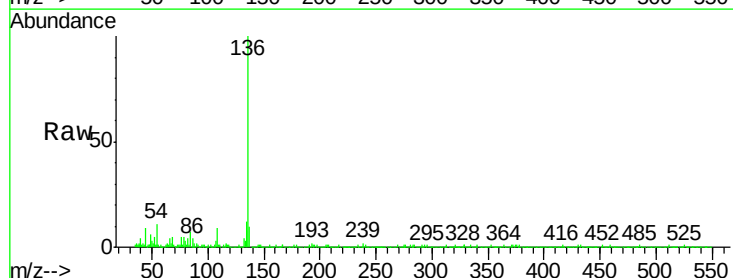
Delta R.T. -0.01 min

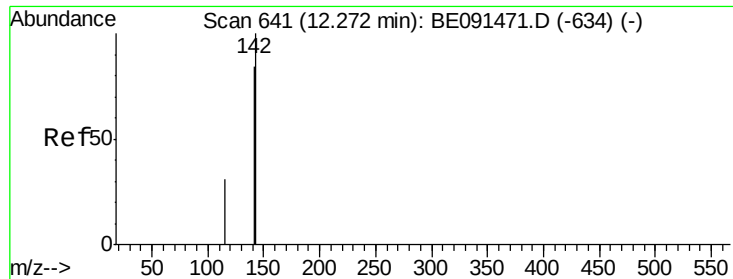
Lab File: BE097485.D

Acq: 18 Mar 2016 3:12

Tgt Ion: 128 Resp: 72

Ion	Ratio	Lower	Upper
128	100		
129	4.1	8.2	12.2#
127	3.4	11.8	17.8#





#9

2-Methylnaphthalene

Concen: 0.00 ng

RT: 12.28 min Scan# 1650

Delta R.T. 0.01 min

Lab File: BE097485.D

Acq: 18 Mar 2016 3:12

Instrument :

BNA_E

ClientSampled :

MDL-05-W

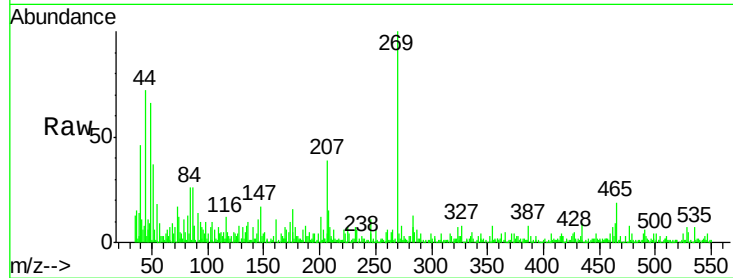
Tgt Ion:142 Resp: 16

Ion Ratio Lower Upper

142 100

141 51.1 66.9 100.3#

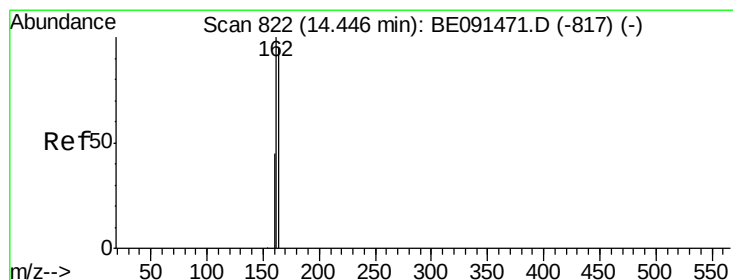
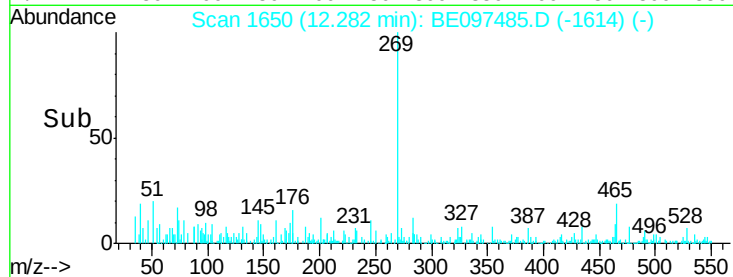
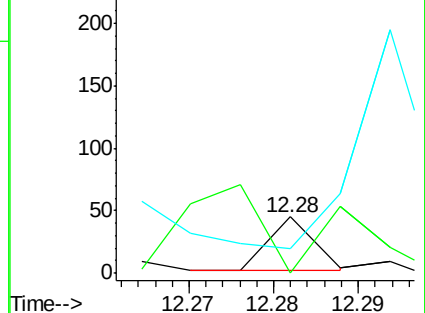
115 44.4 25.1 37.7#



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: BE097485.D

Acq: 18 Mar 2016 3:12

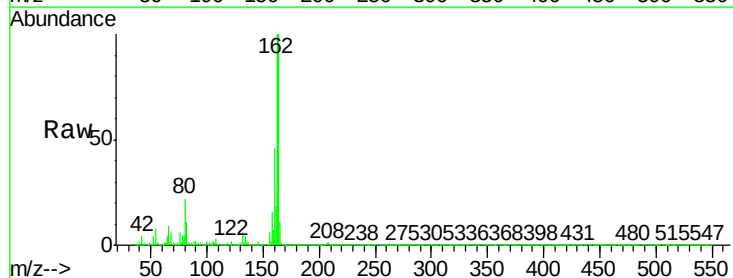
Tgt Ion:164 Resp: 115886

Ion Ratio Lower Upper

164 100

162 100.2 84.4 126.6

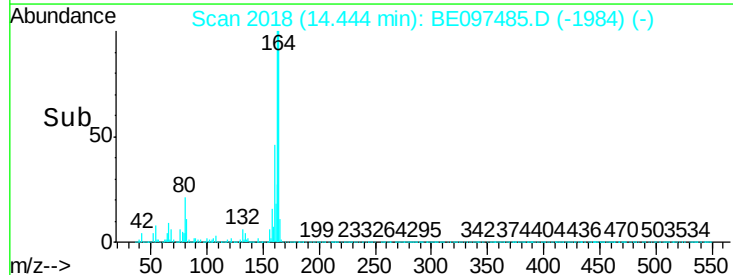
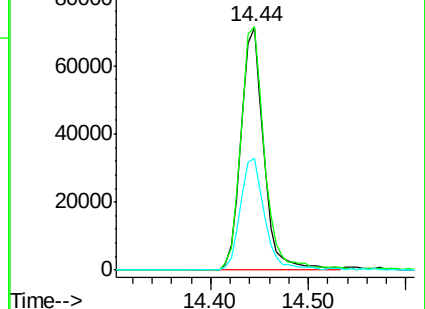
160 45.9 37.7 56.5

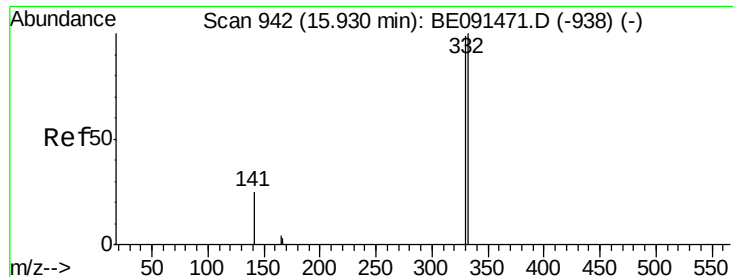


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#11

2,4,6-Tribromophenol

Concen: 5.37 ng

RT: 15.92 min Scan# 2270

Delta R.T. -0.01 min

Lab File: BE097485.D

Acq: 18 Mar 2016 3:12

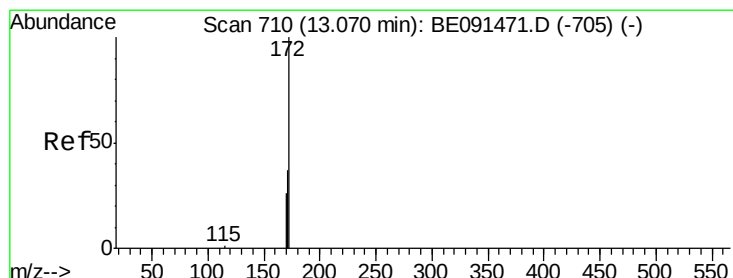
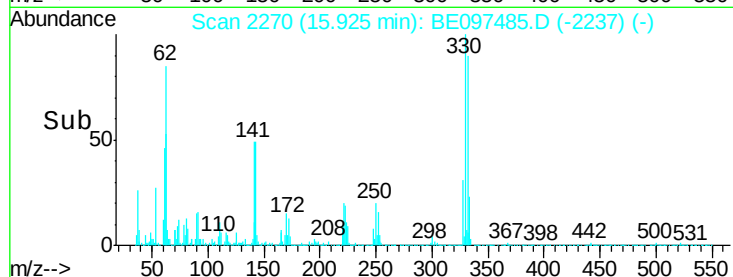
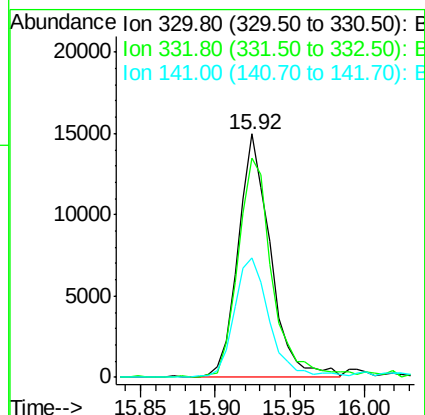
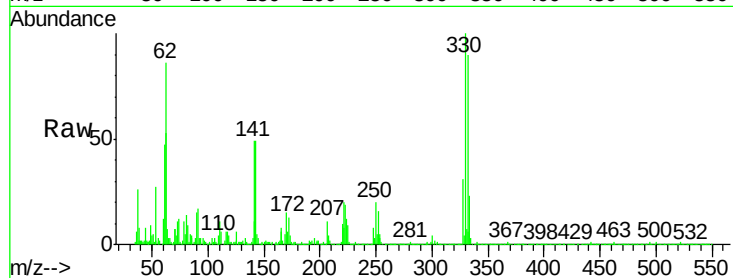
Instrument :

BNA_E

ClientSampleId :

MDL-05-W

Tgt Ion:	330	Resp:	22576
Ion Ratio	Lower	Upper	
330	100		
332	95.3	79.2	118.8
141	52.9	28.1	42.1#



#12

2-Fluorobiphenyl

Concen: 4.24 ng

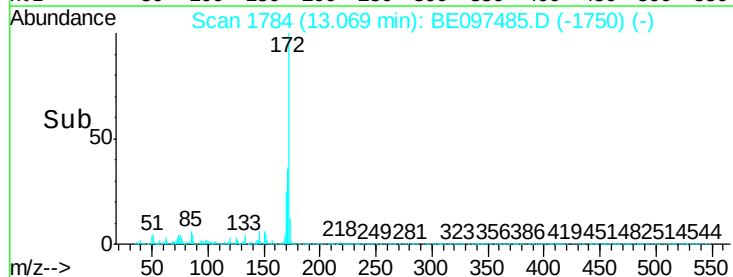
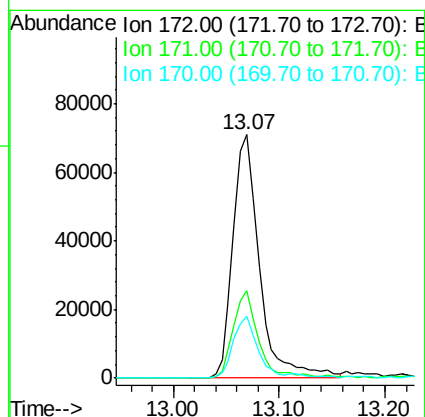
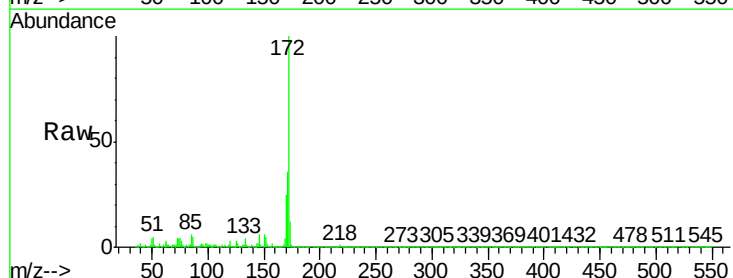
RT: 13.07 min Scan# 1784

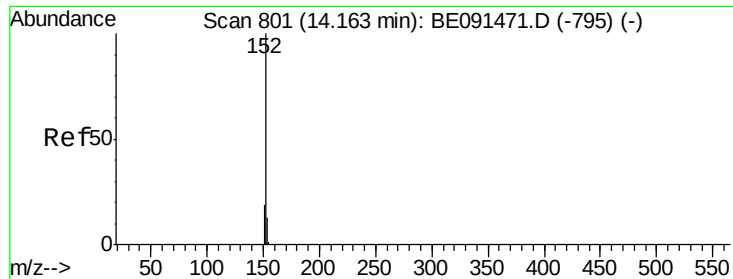
Delta R.T. -0.00 min

Lab File: BE097485.D

Acq: 18 Mar 2016 3:12

Tgt Ion:	172	Resp:	123602
Ion Ratio	Lower	Upper	
172	100		
171	36.0	29.8	44.8
170	25.4	21.4	32.2





#13

Acenaphthylene

Concen: 0.14 ng

RT: 14.16 min Scan# 1970

Delta R.T. 0.00 min

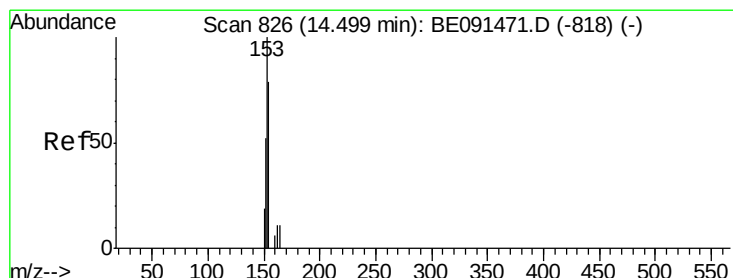
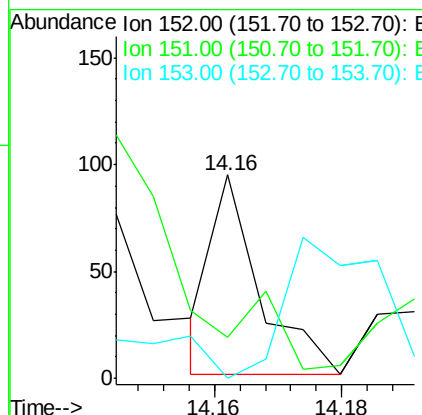
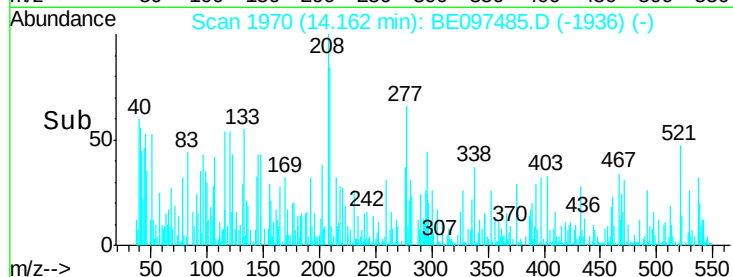
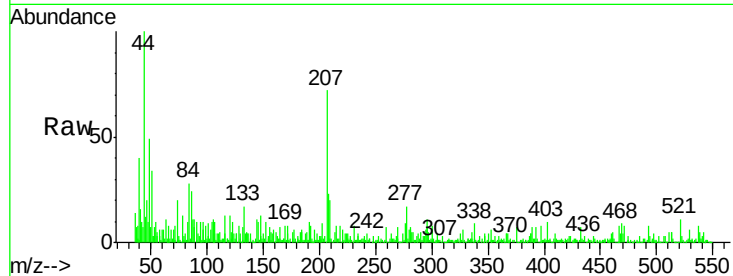
Lab File: BE097485.D

Acq: 18 Mar 2016 3:12

Instrument :
BNA_E
ClientSampleId :
MDL-05-W

Tgt Ion:152 Resp: 49

Ion	Ratio	Lower	Upper
152	100		
151	0.0	16.3	24.5#
153	138.8	11.1	16.7#



#14

Acenaphthene

Concen: 0.00 ng

RT: 14.47 min Scan# 2022

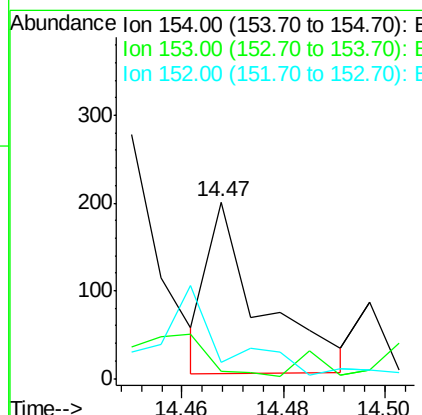
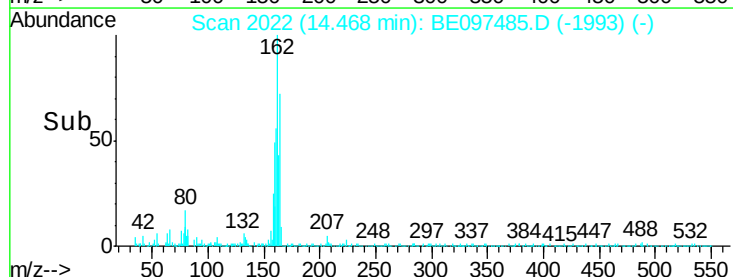
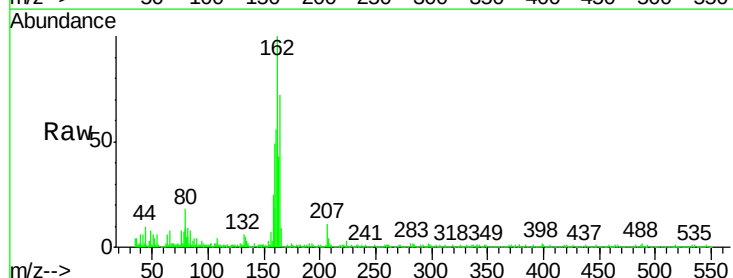
Delta R.T. -0.03 min

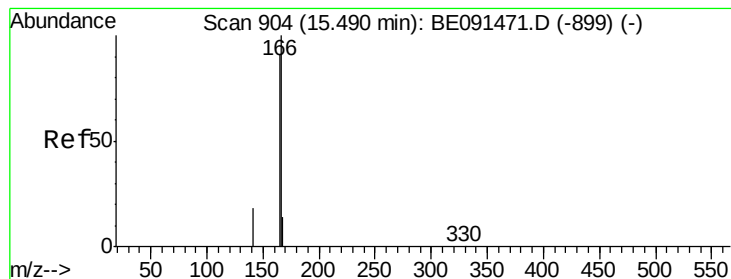
Lab File: BE097485.D

Acq: 18 Mar 2016 3:12

Tgt Ion:154 Resp: 144

Ion	Ratio	Lower	Upper
154	100		
153	0.0	87.3	130.9#
152	68.8	42.9	64.3#





#15

Fluorene

Concen: 0.00 ng

RT: 15.50 min Scan# 2198

Delta R.T. 0.01 min

Lab File: BE097485.D

Acq: 18 Mar 2016 3:12

Instrument :

BNA_E

ClientSampled :

MDL-05-W

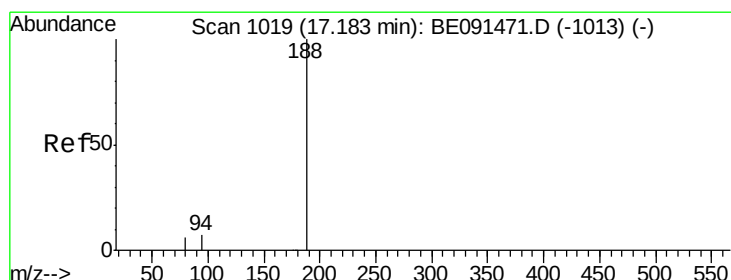
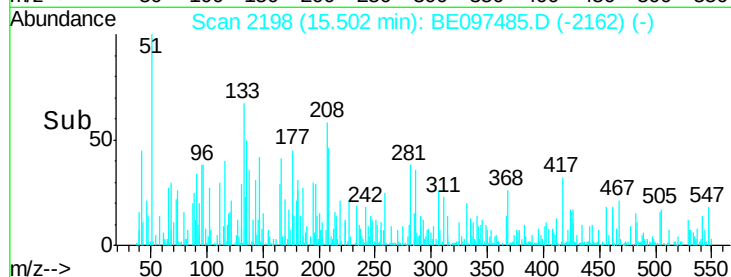
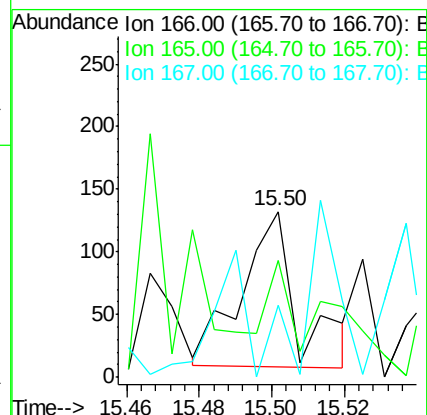
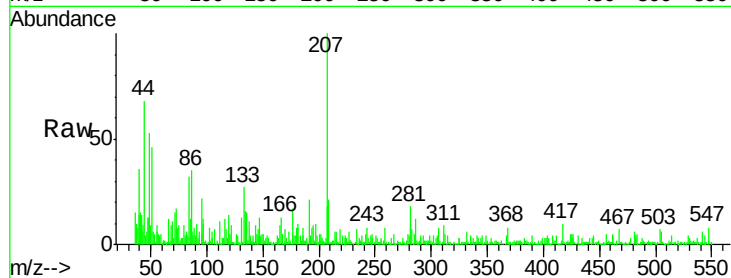
Tgt Ion:166 Resp: 134

Ion Ratio Lower Upper

166 100

165 19.4 79.2 118.8#

167 46.3 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: BE097485.D

Acq: 18 Mar 2016 3:12

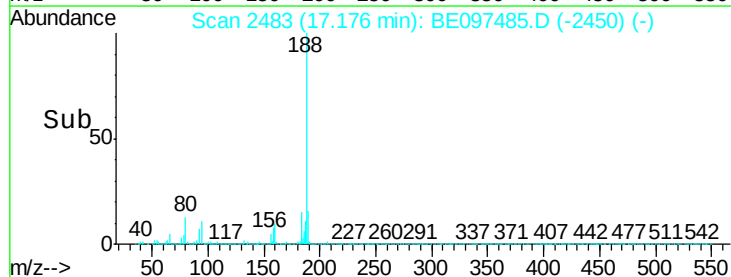
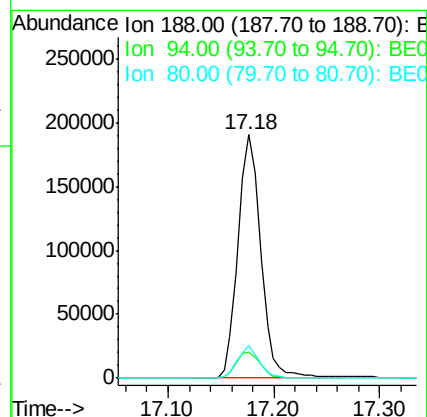
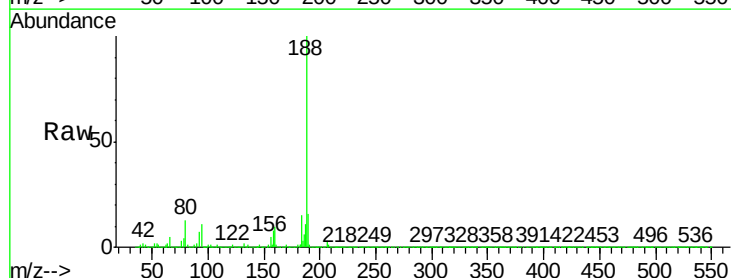
Tgt Ion:188 Resp: 284399

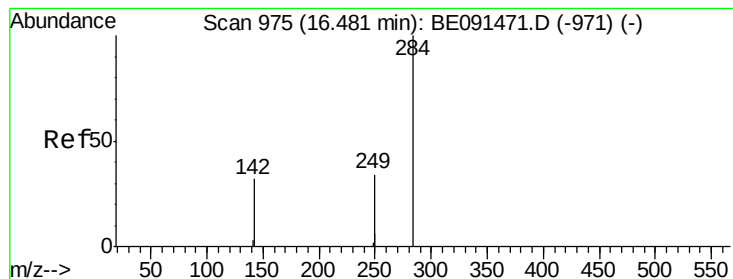
Ion Ratio Lower Upper

188 100

94 10.6 5.4 8.2#

80 13.2 5.0 7.4#





#17

Hexachlorobenzene

Concen: 0.00 ng

RT: 16.48 min Scan# 2364

Delta R.T. -0.00 min

Lab File: BE097485.D

Acq: 18 Mar 2016 3:12

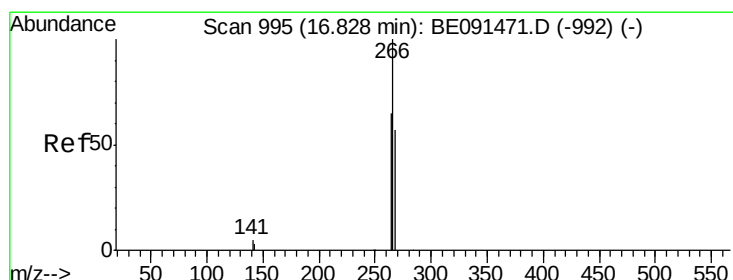
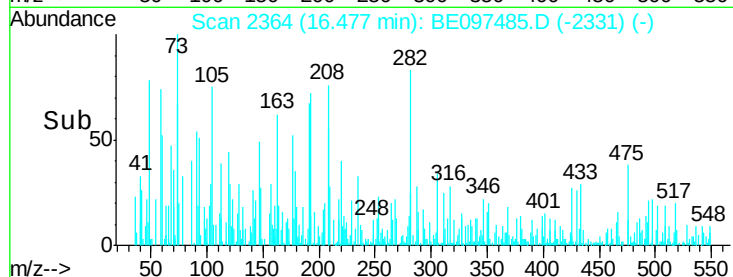
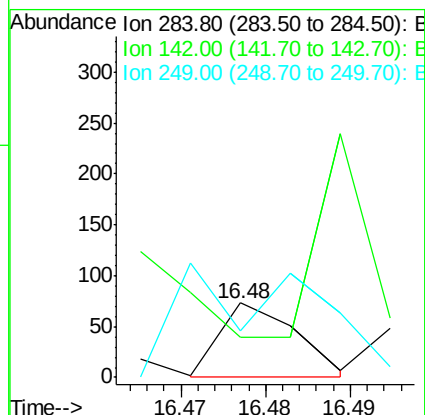
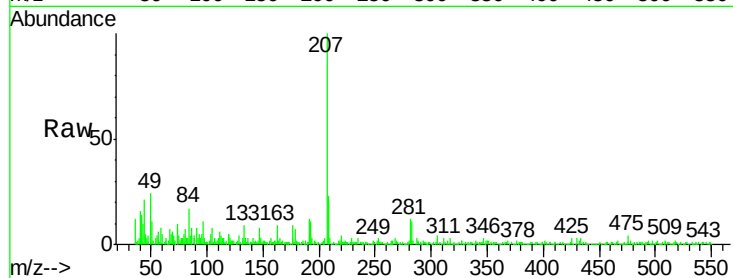
Instrument :

BNA_E

ClientSampleId :

MDL-05-W

Tgt Ion:	284	Resp:	45
Ion Ratio	Lower	Upper	
284	100		
142	288.9	31.0	46.4#
249	264.4	25.8	38.8#



#18

Pentachlorophenol

Concen: 0.31 ng

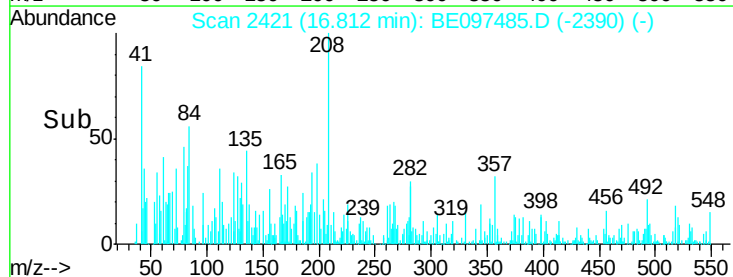
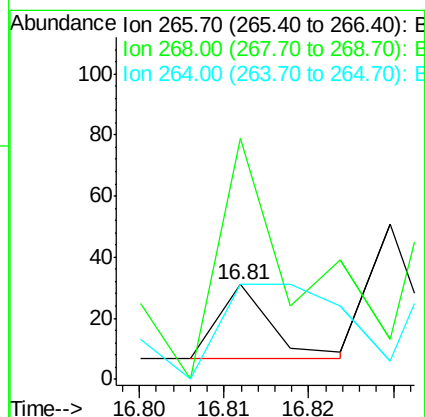
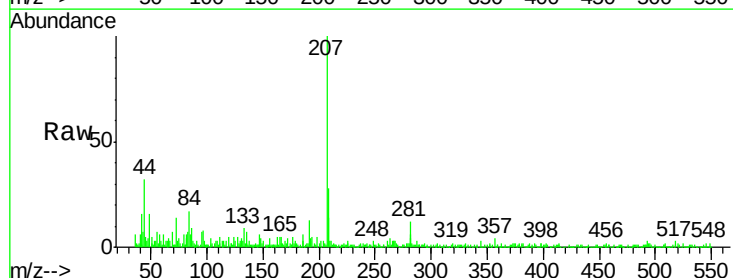
RT: 16.81 min Scan# 2421

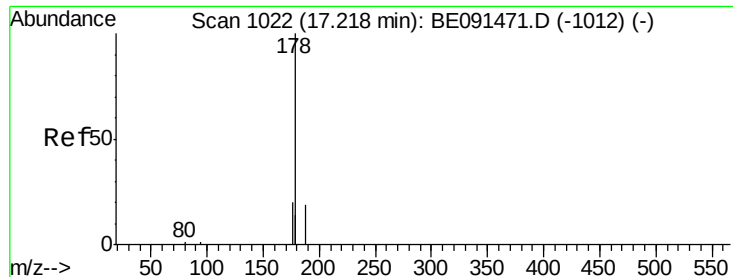
Delta R.T. -0.02 min

Lab File: BE097485.D

Acq: 18 Mar 2016 3:12

Tgt Ion:	266	Resp:	10
Ion Ratio	Lower	Upper	
266	100		
268	254.8	48.2	72.2#
264	100.0	52.1	78.1#





#19

Phenanthrene

Concen: 0.01 ng

RT: 17.22 min Scan# 2491

Delta R.T. 0.01 min

Lab File: BE097485.D

Acq: 18 Mar 2016 3:12

Instrument :

BNA_E

ClientSampleId :

MDL-05-W

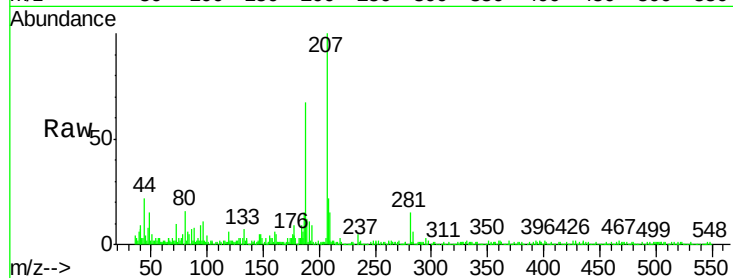
Tgt Ion:178 Resp: 414

Ion Ratio Lower Upper

178 100

176 60.6 15.5 23.3#

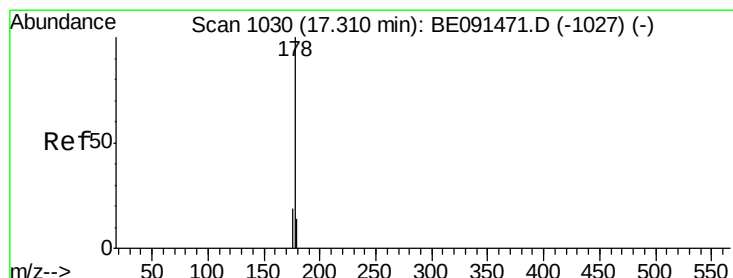
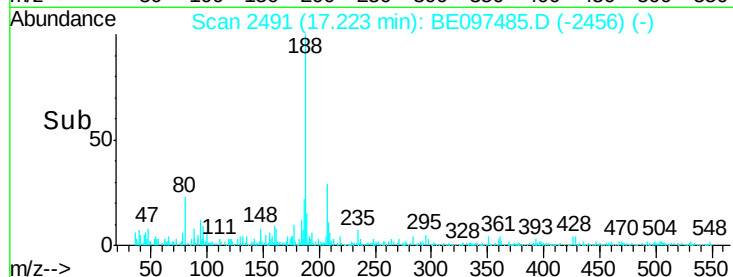
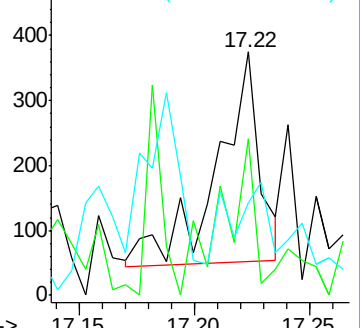
179 41.5 13.1 19.7#



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#20

Anthracene

Concen: 0.00 ng

RT: 17.29 min Scan# 2503

Delta R.T. -0.02 min

Lab File: BE097485.D

Acq: 18 Mar 2016 3:12

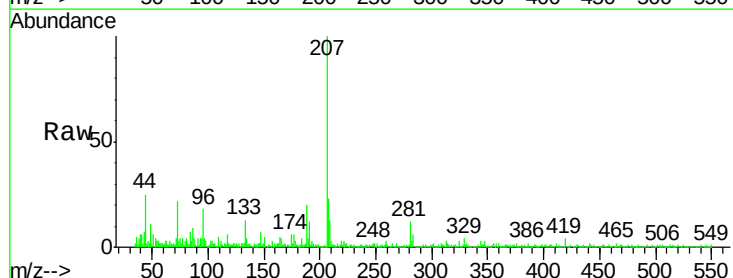
Tgt Ion:178 Resp: 142

Ion Ratio Lower Upper

178 100

176 42.3 14.9 22.3#

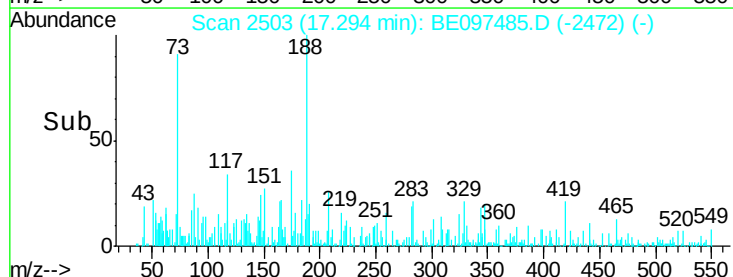
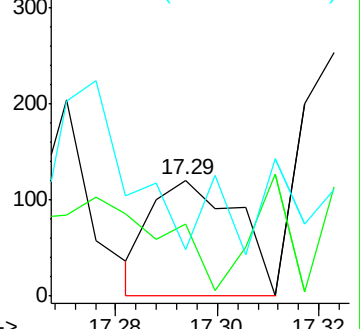
179 0.0 12.2 18.4#

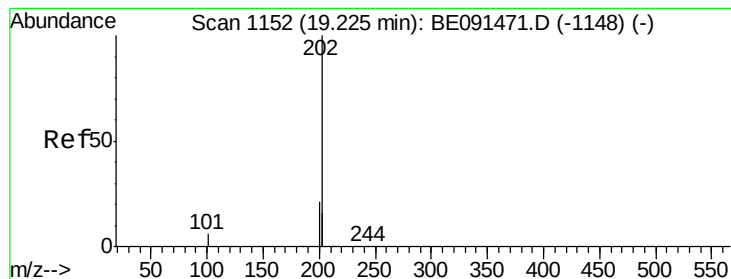


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#21

Fluoranthene

Concen: 0.01 ng

RT: 19.24 min Scan# 2834

Delta R.T. 0.01 min

Lab File: BE097485.D

Acq: 18 Mar 2016 3:12

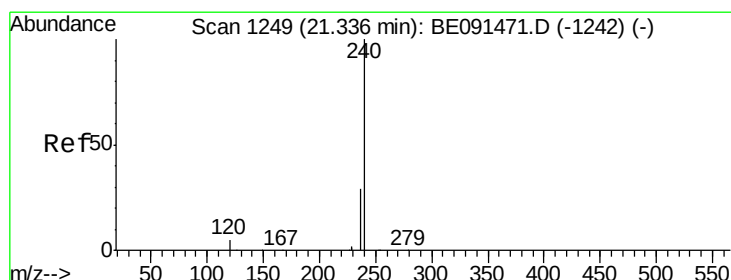
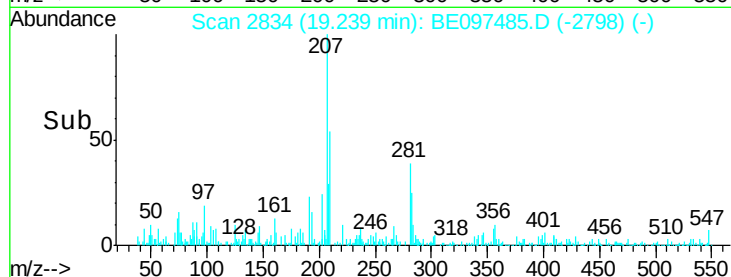
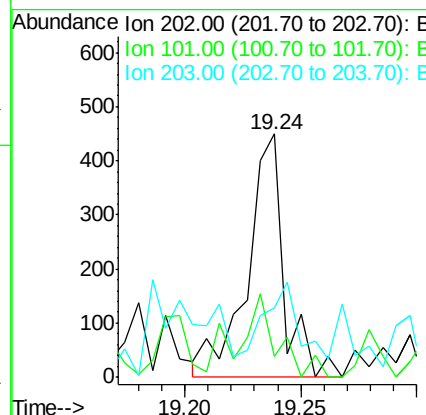
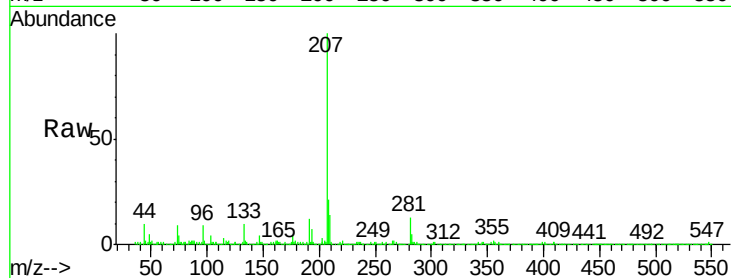
Instrument :

BNA_E

ClientSampleId :

MDL-05-W

Tgt Ion:	202	Resp:	498
Ion Ratio	Lower	Upper	
202	100		
101	36.3	8.3	12.5#
203	36.3	13.9	20.9#



#22

Chrysene-d12

Concen: 5.00 ng

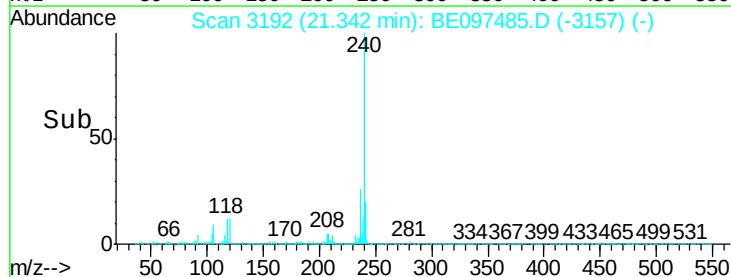
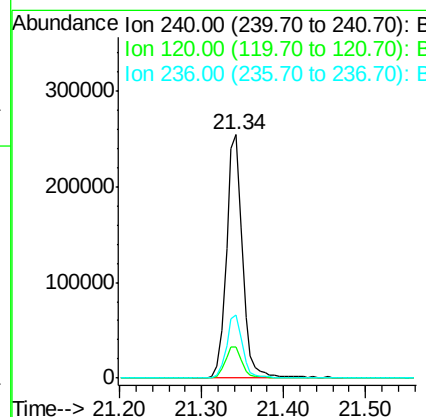
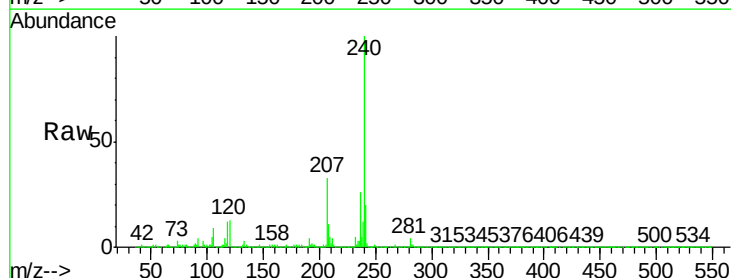
RT: 21.34 min Scan# 3192

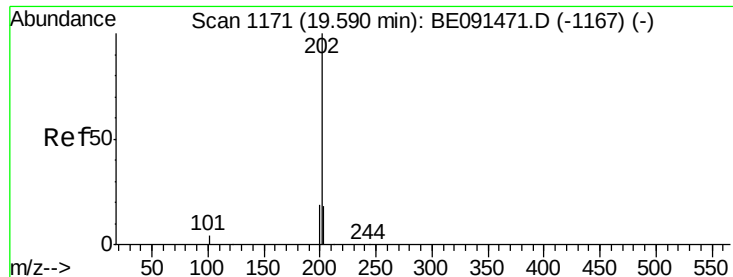
Delta R.T. 0.01 min

Lab File: BE097485.D

Acq: 18 Mar 2016 3:12

Tgt Ion:	240	Resp:	347568
Ion Ratio	Lower	Upper	
240	100		
120	12.7	4.0	6.0#
236	26.0	23.0	34.4





#23

Pyrene

Concen: 0.01 ng

RT: 19.57 min Scan# 2891

Delta R.T. -0.02 min

Lab File: BE097485.D

Acq: 18 Mar 2016 3:12

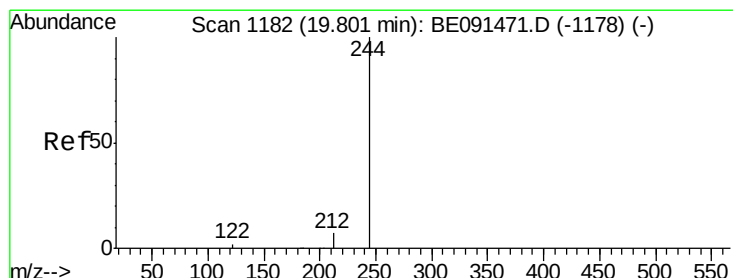
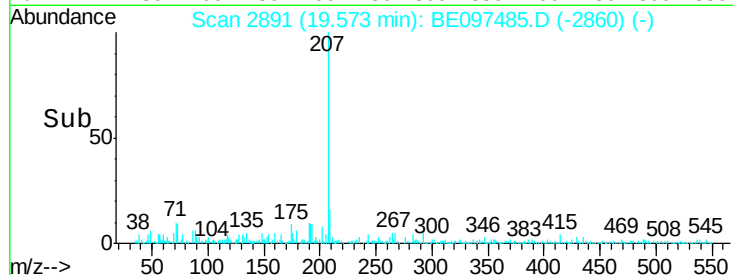
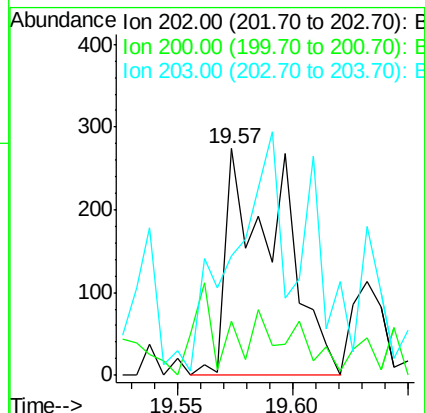
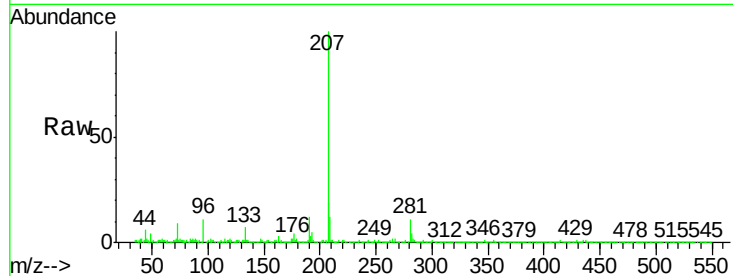
Instrument :

BNA_E

ClientSampleId :

MDL-05-W

Tgt Ion:	202	Resp:	439
Ion	Ratio	Lower	Upper
202	100		
200	11.2	16.4	24.6#
203	100.0	14.6	21.8#



#24

Terphenyl-d14

Concen: 5.12 ng

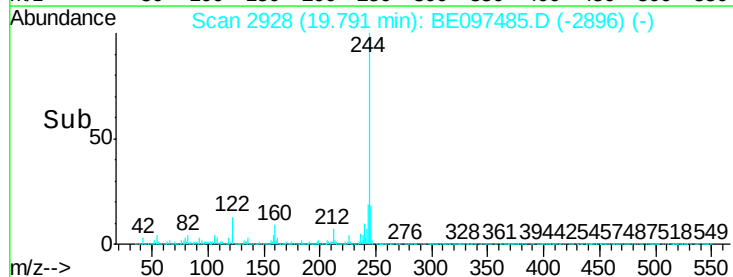
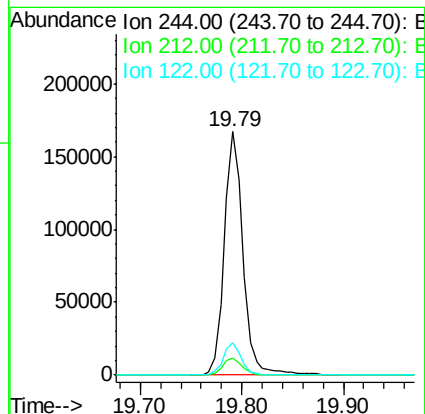
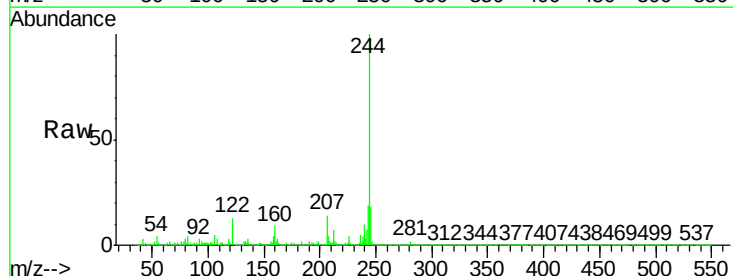
RT: 19.79 min Scan# 2928

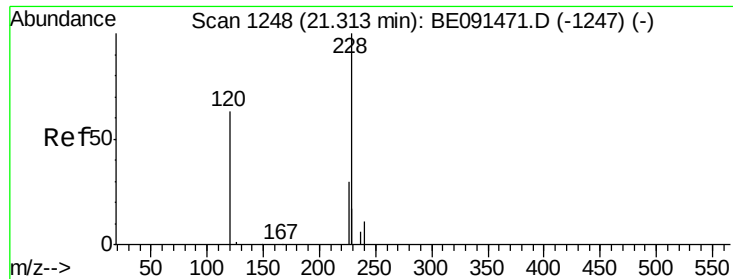
Delta R.T. -0.01 min

Lab File: BE097485.D

Acq: 18 Mar 2016 3:12

Tgt Ion:	244	Resp:	213920
Ion	Ratio	Lower	Upper
244	100		
212	6.9	5.8	8.8
122	13.1	1.8	2.8#





#25

Benzo(a)anthracene

Concen: 0.02 ng

RT: 21.34 min Scan# 3192

Delta R.T. 0.03 min

Lab File: BE097485.D

Acq: 18 Mar 2016 3:12

Instrument :

BNA_E

ClientSampleId :

MDL-05-W

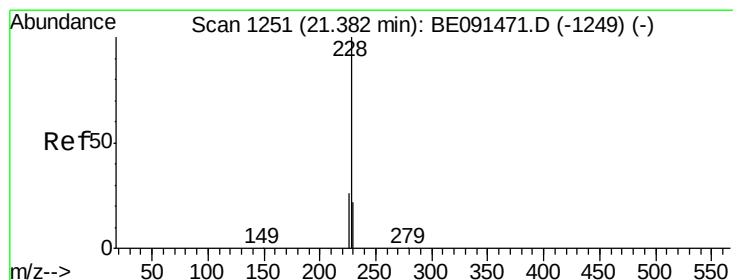
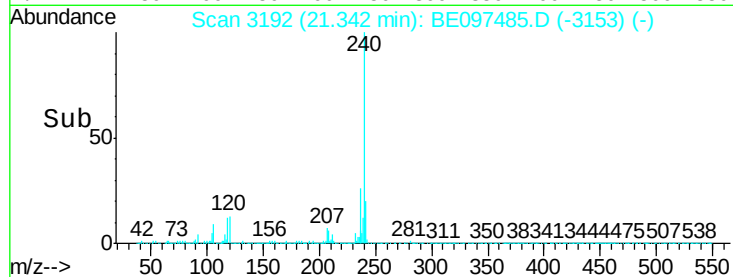
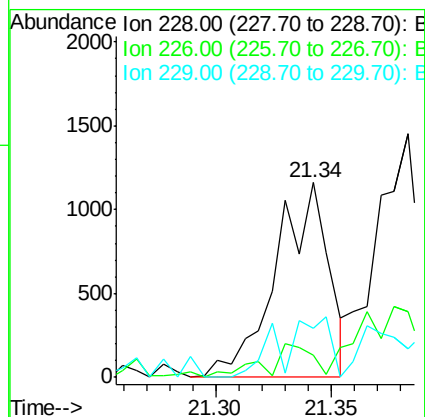
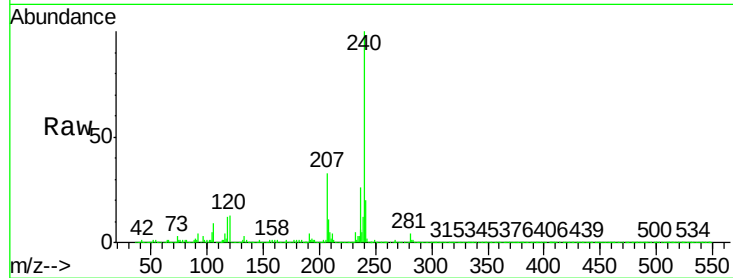
Tgt Ion:228 Resp: 1852

Ion Ratio Lower Upper

228 100

226 11.5 24.0 36.0#

229 25.1 13.8 20.6#



#26

Chrysene

Concen: Below Cal

RT: 21.38 min Scan# 3199

Delta R.T. 0.00 min

Lab File: BE097485.D

Acq: 18 Mar 2016 3:12

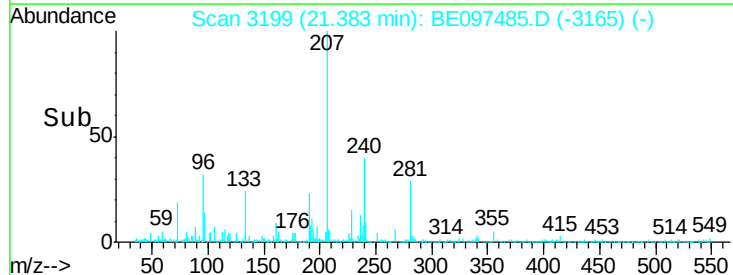
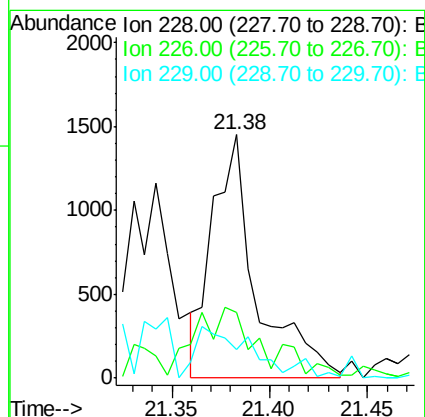
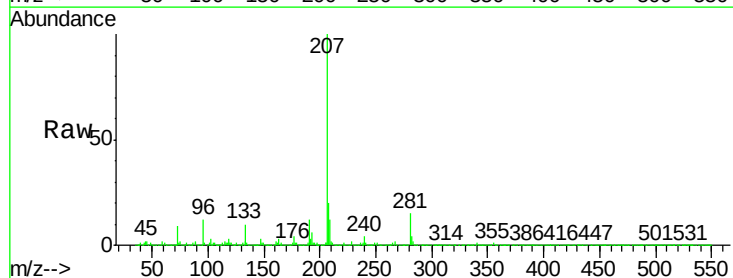
Tgt Ion:228 Resp: 2270

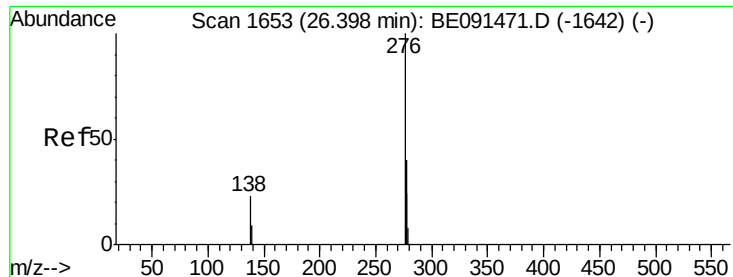
Ion Ratio Lower Upper

228 100

226 26.7 18.9 28.3

229 11.6 19.1 28.7#

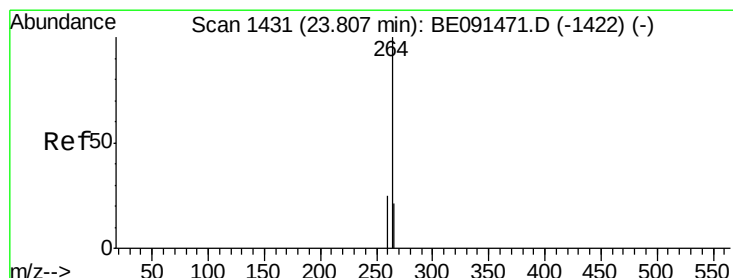
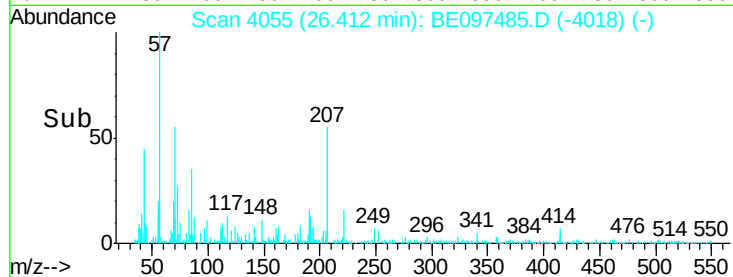
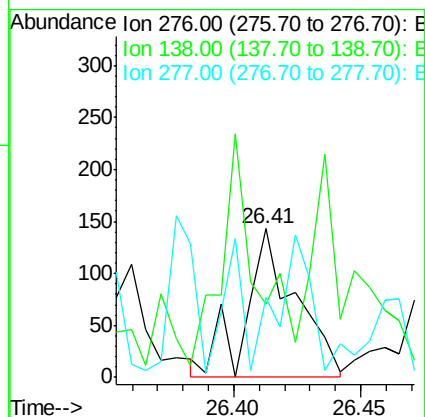
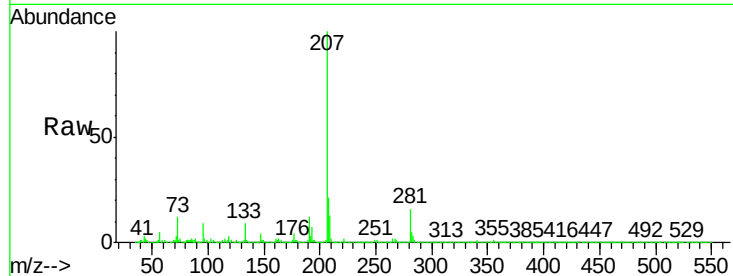




#27
Indeno(1,2,3-cd)pyrene
Concen: 0.00 ng
RT: 26.41 min Scan# 4055
Delta R.T. 0.01 min
Lab File: BE097485.D
Acq: 18 Mar 2016 3:12

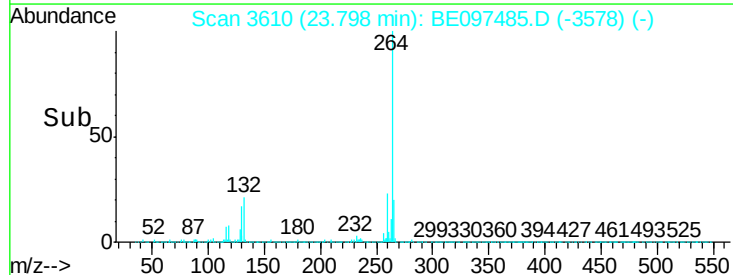
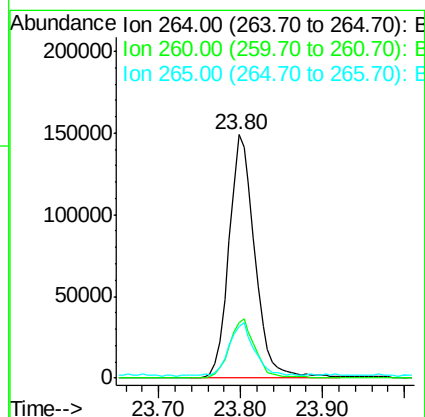
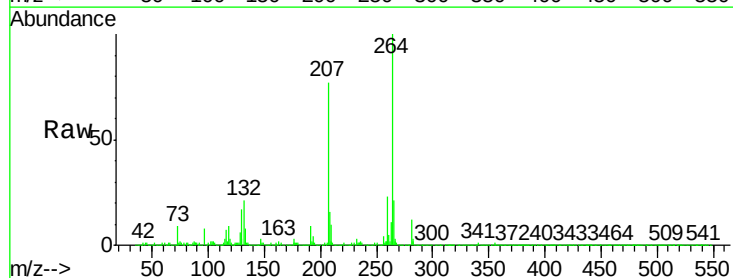
Instrument :
BNA_E
ClientSampled :
MDL-05-W

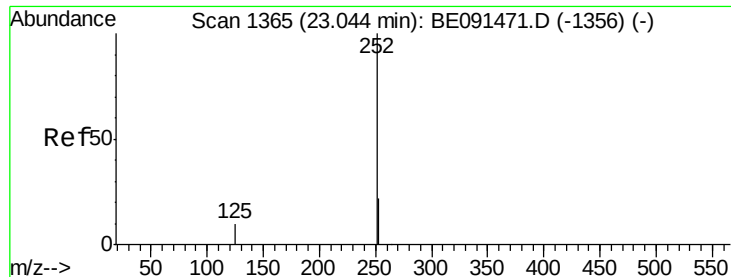
Tgt Ion: 276 Resp: 196
Ion Ratio Lower Upper
276 100
138 121.4 20.2 30.4#
277 34.7 19.8 29.8#



#28
Perylene-d12
Concen: 5.00 ng
RT: 23.80 min Scan# 3610
Delta R.T. -0.01 min
Lab File: BE097485.D
Acq: 18 Mar 2016 3:12

Tgt Ion: 264 Resp: 327906
Ion Ratio Lower Upper
264 100
260 23.0 20.1 30.1
265 21.1 18.3 27.5





#29

Benzo(b)fluoranthene

Concen: 0.01 ng

RT: 23.06 min Scan# 3484

Delta R.T. 0.01 min

Lab File: BE097485.D

Acq: 18 Mar 2016 3:12

Instrument :

BNA_E

ClientSampleId :

MDL-05-W

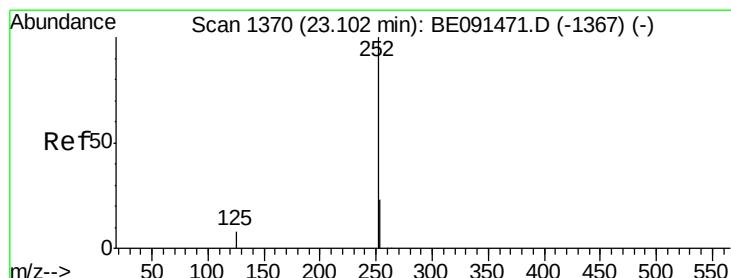
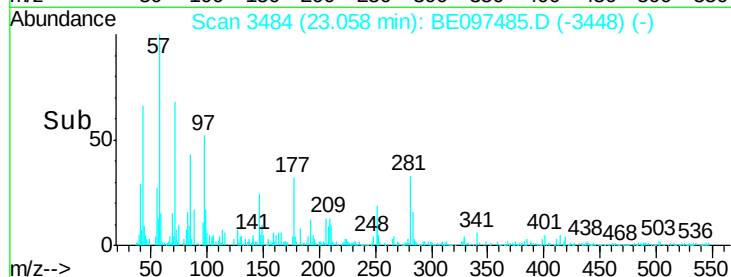
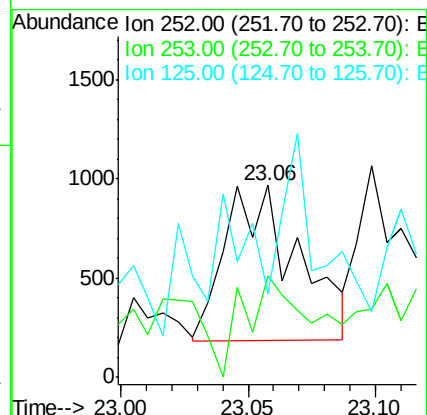
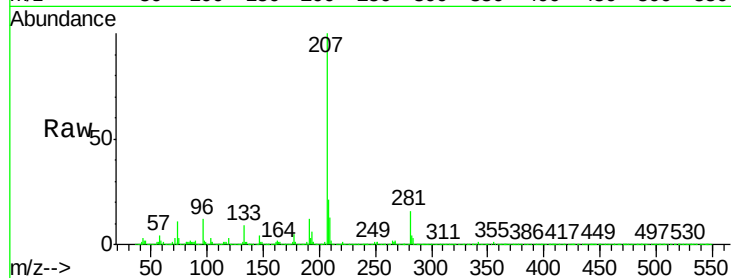
Tgt Ion:252 Resp: 1538

Ion Ratio Lower Upper

252 100

253 52.7 18.7 28.1#

125 43.6 9.8 14.6#



#30

Benzo(k)fluoranthene

Concen: 0.02 ng

RT: 23.10 min Scan# 3491

Delta R.T. -0.00 min

Lab File: BE097485.D

Acq: 18 Mar 2016 3:12

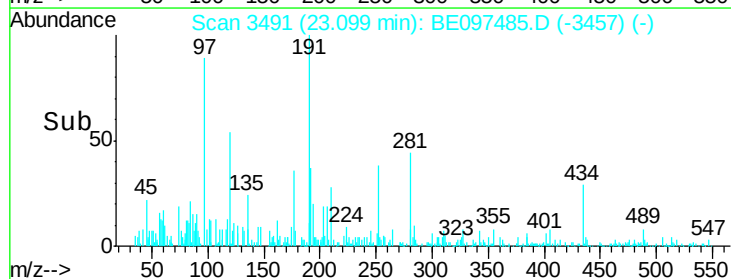
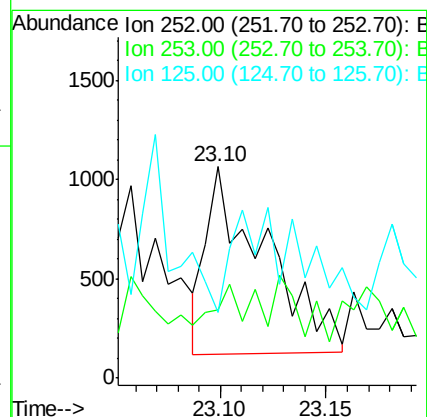
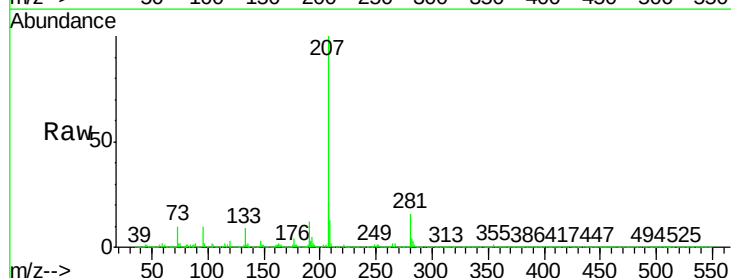
Tgt Ion:252 Resp: 1836

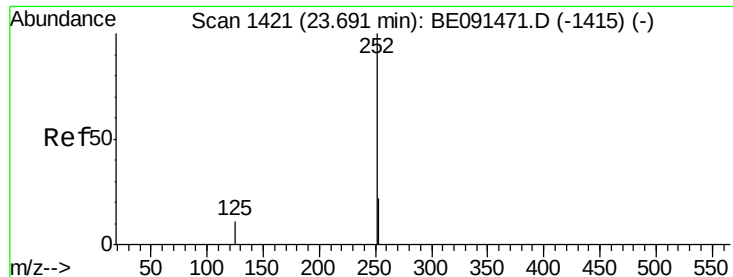
Ion Ratio Lower Upper

252 100

253 32.5 20.2 30.4#

125 30.8 9.4 14.2#





#31

Benzo(a)pyrene

Concen: 0.00 ng

RT: 23.69 min Scan# 3591

Delta R.T. -0.01 min

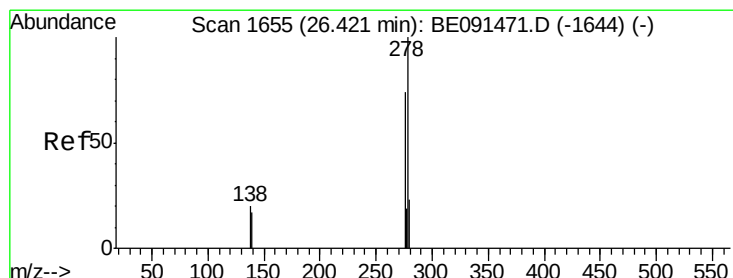
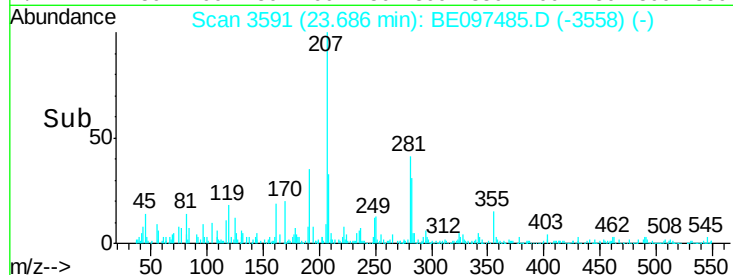
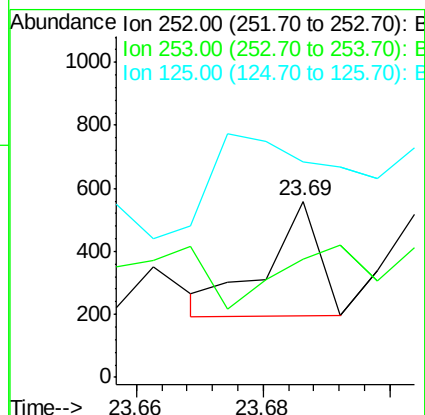
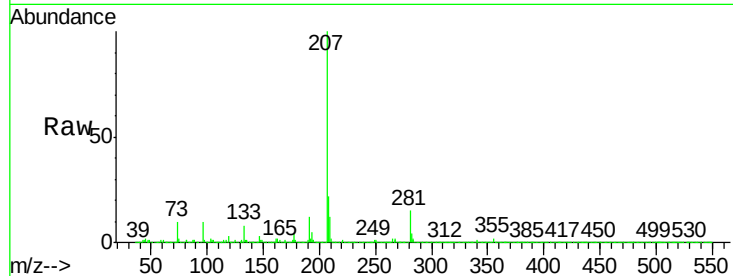
Lab File: BE097485.D

Acq: 18 Mar 2016 3:12

Instrument :
BNA_E
ClientSampleId :
MDL-05-W

Tgt Ion: 252 Resp: 208

Ion	Ratio	Lower	Upper
252	100		
253	67.6	19.4	29.0#
125	122.4	11.4	17.2#



#32

Dibenzo(a,h)anthracene

Concen: 0.00 ng

RT: 26.41 min Scan# 4054

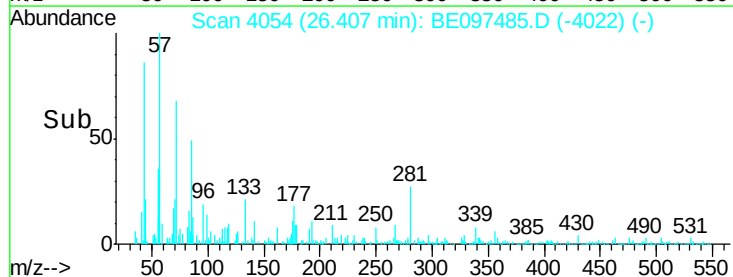
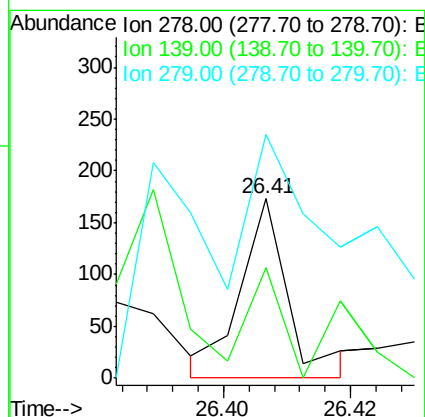
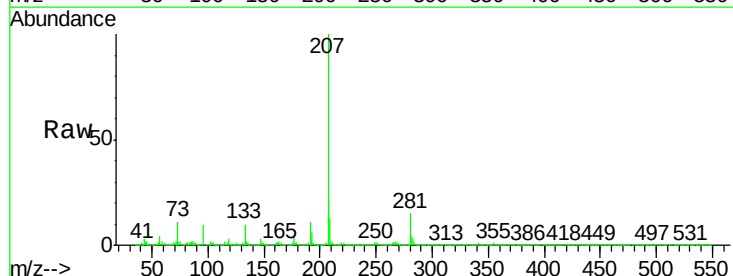
Delta R.T. -0.01 min

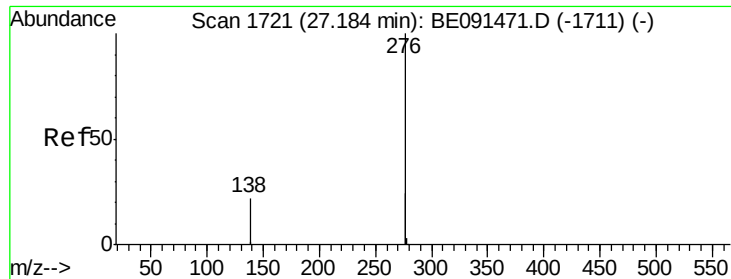
Lab File: BE097485.D

Acq: 18 Mar 2016 3:12

Tgt Ion: 278 Resp: 88

Ion	Ratio	Lower	Upper
278	100		
139	61.8	14.2	21.4#
279	135.8	19.6	29.4#





#33

Benzo(g,h,i)perylene

Concen: 0.00 ng

RT: 27.19 min Scan# 4187

Delta R.T. 0.00 min

Lab File: BE097485.D

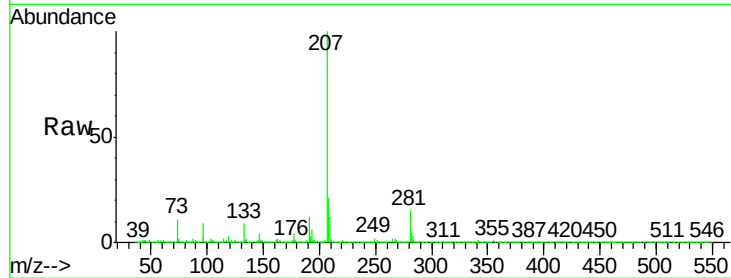
Acq: 18 Mar 2016 3:12

Instrument :

BNA_E

ClientSampleId :

MDL-05-W



Tgt Ion:	276	Resp:	27
Ion	Ratio	Lower	Upper
276	100		
277	164.1	19.4	29.2#
138	107.7	18.2	27.4#

