

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE031816\
 Data File : BE097487.D
 Acq On : 18 Mar 2016 4:26
 Operator : UM/SJ
 Sample : SSTDC00.4
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 MDL-07-W

Quant Time: Mar 18 08:21:12 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	45472	5.00	ng	0.00
6) Naphthalene-d8	10.61	136	205885	5.00	ng	0.00
10) Acenaphthene-d10	14.44	164	122126	5.00	ng	0.00
16) Phenanthrene-d10	17.18	188	301364	5.00	ng	0.00
22) Chrysene-d12	21.34	240	374153	5.00	ng	0.00
28) Perylene-d12	23.80	264	355788	5.00	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.43	112	4251	0.41	ng	0.00
5) Phenol-d6	6.99	99	4888	0.36	ng	0.00
7) Nitrobenzene-d5	8.98	82	3647	0.53	ng	0.00
11) 2,4,6-Tribromophenol	15.94	330	1015	0.47	ng	0.00
12) 2-Fluorobiphenyl	13.07	172	9776	0.32	ng	0.00
24) Terphenyl-d14	19.79	244	18116	0.40	ng	-0.01

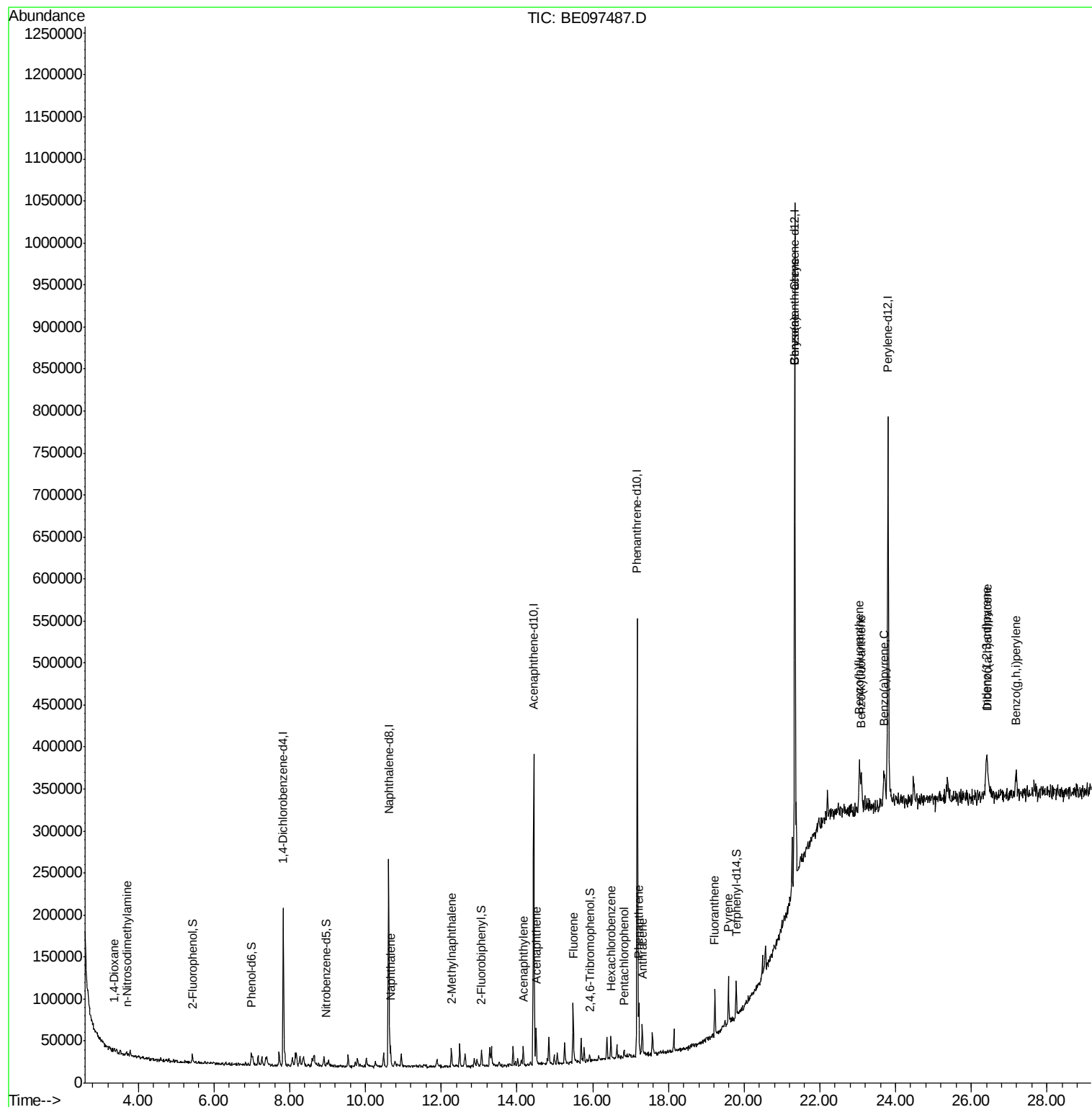
Target Compounds						Qvalue
2) 1,4-Dioxane	3.36	88	2390	0.42	ng	# 86
3) n-Nitrosodimethylamine	3.69	42	1845	0.23	ng	# 57
8) Naphthalene	10.66	128	19798	0.39	ng	99
9) 2-Methylnaphthalene	12.27	142	10895	0.34	ng	96
13) Acenaphthylene	14.16	152	16252	0.39	ng	99
14) Acenaphthene	14.50	154	14160	0.38	ng	98
15) Fluorene	15.49	166	18140	0.38	ng	97
17) Hexachlorobenzene	16.48	284	4219	0.32	ng	# 76
18) Pentachlorophenol	16.83	266	1941	0.55	ng	# 71
19) Phenanthrene	17.22	178	32346	0.38	ng	98
20) Anthracene	17.31	178	25913	0.34	ng	98
21) Fluoranthene	19.23	202	31034	0.31	ng	# 94
23) Pyrene	19.59	202	33701	0.36	ng	96
25) Benzo(a)anthracene	21.32	228	35158	0.34	ng	95
26) Chrysene	21.32	228	35158	0.28	ng	92
27) Indeno(1,2,3-cd)pyrene	26.40	276	35593	0.33	ng	94
29) Benzo(b)fluoranthene	23.05	252	36359	0.32	ng	94
30) Benzo(k)fluoranthene	23.09	252	36839	0.32	ng	# 90
31) Benzo(a)pyrene	23.69	252	31198	0.31	ng	# 90
32) Dibenzo(a,h)anthracene	26.42	278	29376	0.30	ng	# 91
33) Benzo(g,h,i)perylene	27.18	276	30945	0.30	ng	# 88

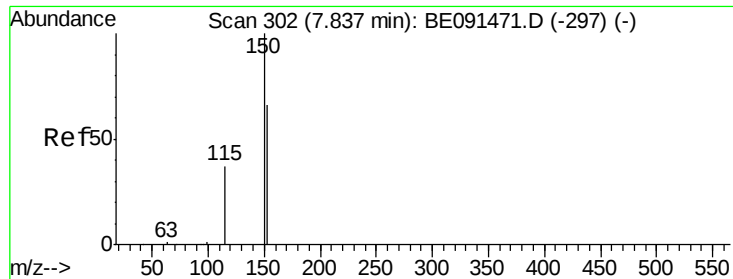
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE031816\
Data File : BE097487.D
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Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
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Quant Time: Mar 18 08:21:12 2016
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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: BE097487.D

Acq: 18 Mar 2016 4:26

Instrument :

BNA_E

ClientSampleId :

MDL-07-W

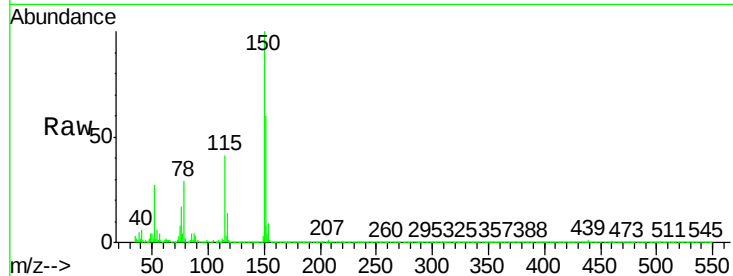
Tgt Ion:152 Resp: 45472

Ion Ratio Lower Upper

152 100

150 165.4 122.2 183.2

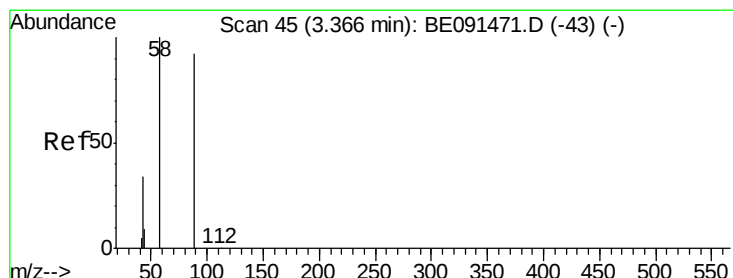
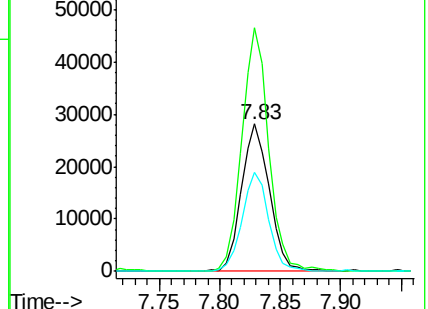
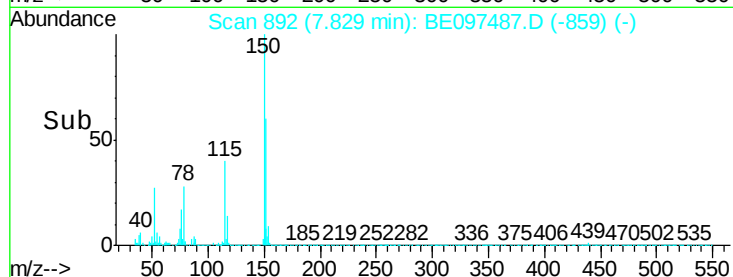
115 67.0 45.9 68.9



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: 0.42 ng

RT: 3.36 min Scan# 132

Delta R.T. -0.00 min

Lab File: BE097487.D

Acq: 18 Mar 2016 4:26

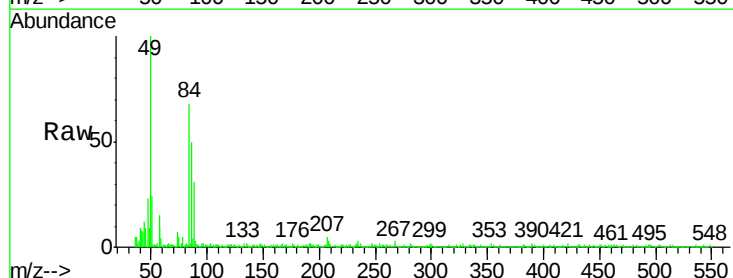
Tgt Ion: 88 Resp: 2390

Ion Ratio Lower Upper

88 100

58 67.2 61.0 91.6

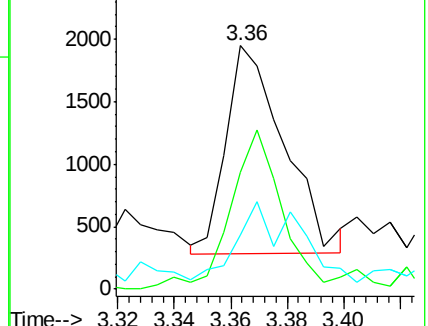
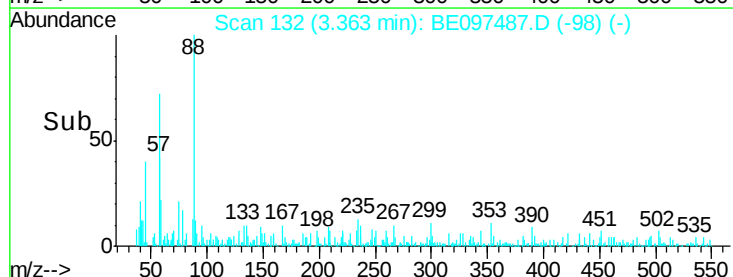
43 44.1 25.4 38.2#

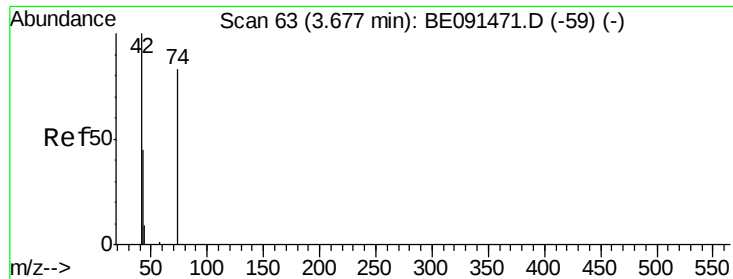


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#3

n-Nitrosodimethylamine

Concen: 0.23 ng

RT: 3.69 min Scan# 187

Delta R.T. 0.01 min

Lab File: BE097487.D

Acq: 18 Mar 2016 4:26

Instrument :

BNA_E

ClientSampleId :

MDL-07-W

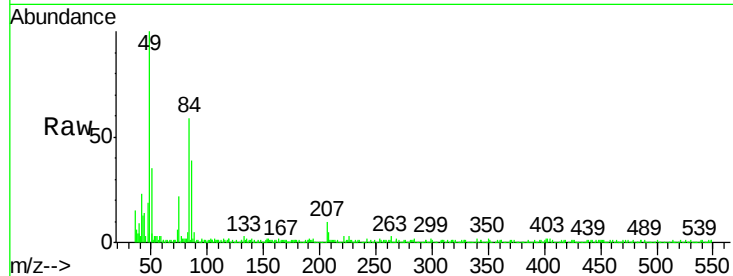
Tgt Ion: 42 Resp: 1845

Ion Ratio Lower Upper

42 100

74 145.3 84.3 126.5#

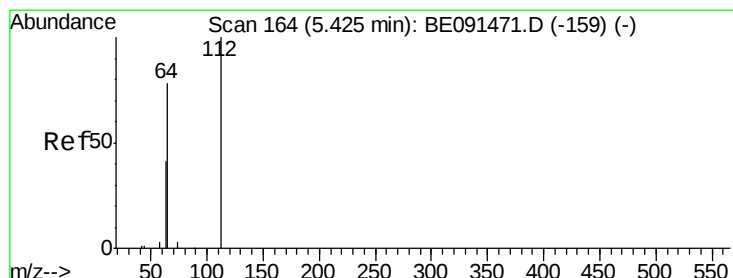
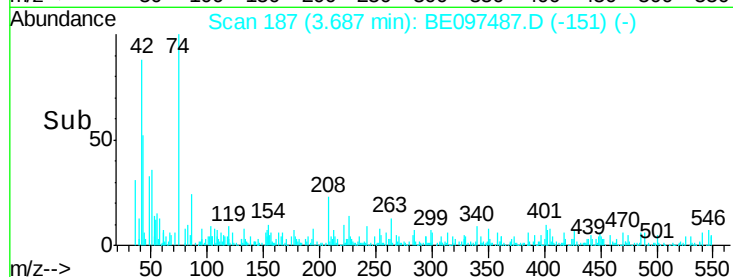
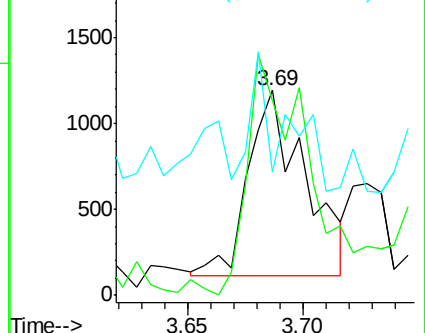
44 42.0 6.7 10.1#



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: 0.41 ng

RT: 5.43 min Scan# 483

Delta R.T. 0.00 min

Lab File: BE097487.D

Acq: 18 Mar 2016 4:26

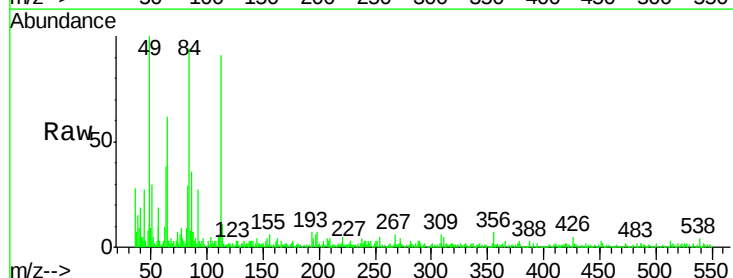
Tgt Ion: 112 Resp: 4251

Ion Ratio Lower Upper

112 100

64 63.5 53.3 79.9

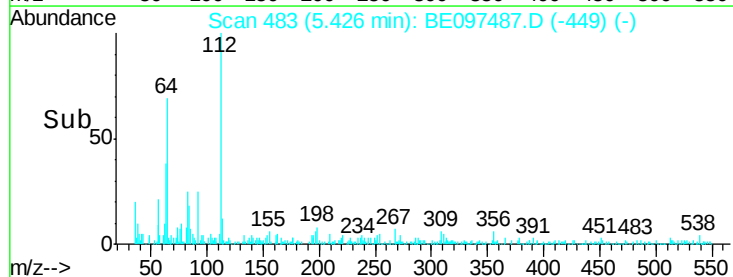
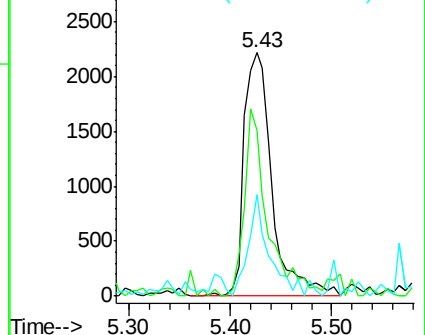
63 30.6 29.8 44.8

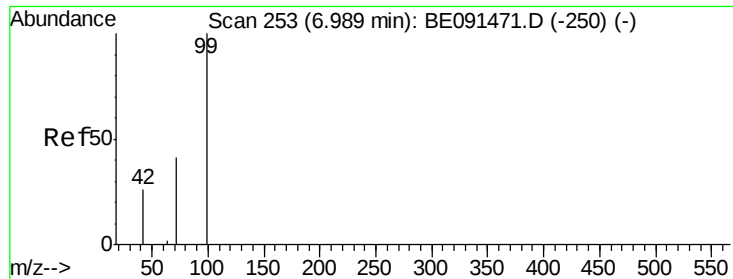


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 0.36 ng

RT: 6.99 min Scan# 750

Delta R.T. 0.01 min

Lab File: BE097487.D

Acq: 18 Mar 2016 4:26

Instrument :

BNA_E

ClientSampleId :

MDL-07-W

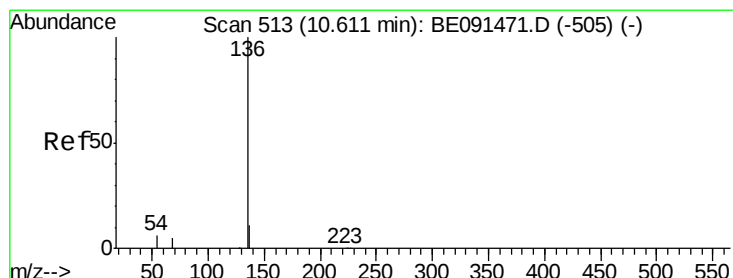
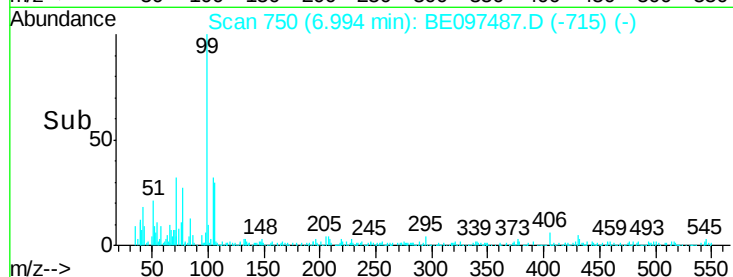
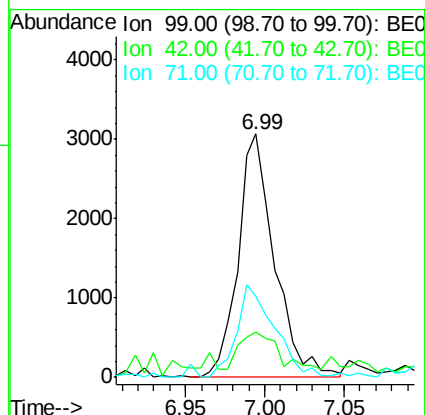
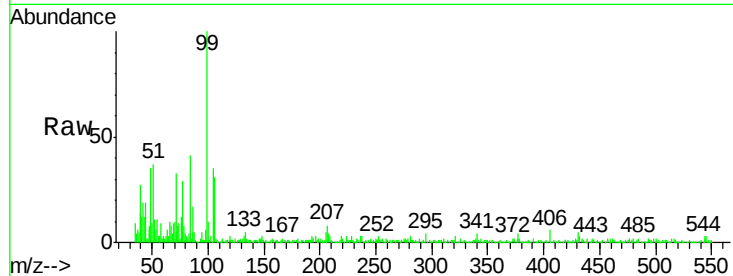
Tgt Ion: 99 Resp: 4888

Ion Ratio Lower Upper

99 100

42 15.9 20.6 30.8#

71 39.6 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: BE097487.D

Acq: 18 Mar 2016 4:26

Tgt Ion: 136 Resp: 205885

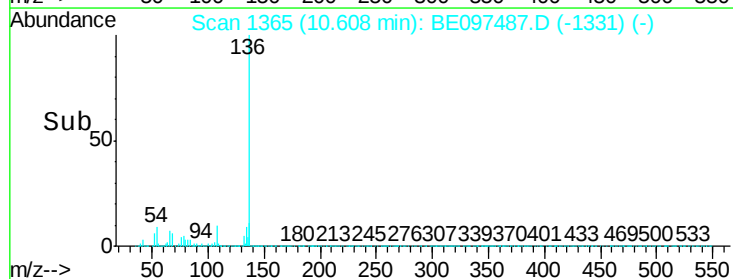
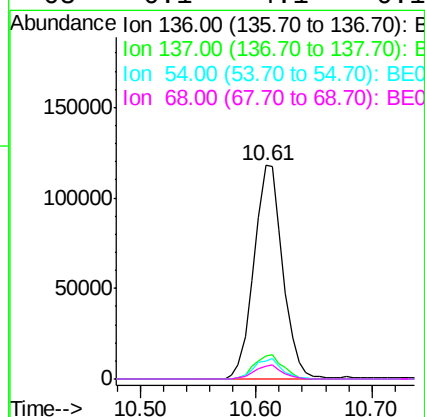
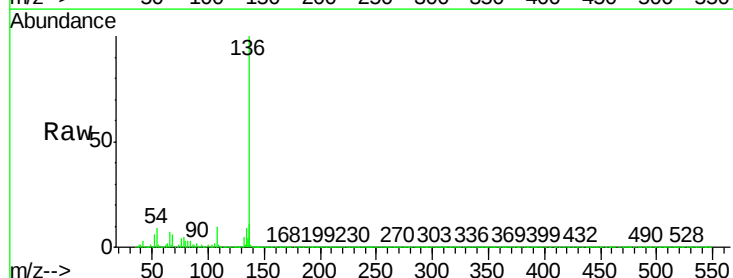
Ion Ratio Lower Upper

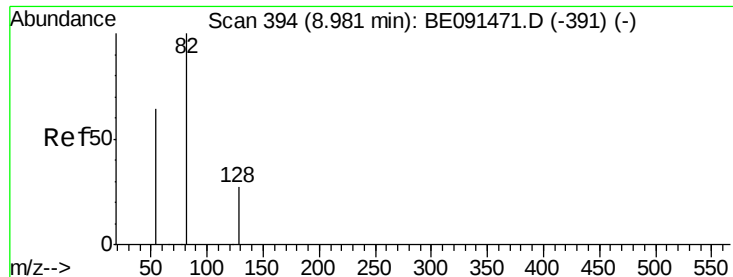
136 100

137 10.8 8.8 13.2

54 8.7 5.2 7.8#

68 6.1 4.1 6.1





#7

Nitrobenzene-d5

Concen: 0.53 ng

RT: 8.98 min Scan# 1088

Delta R.T. 0.00 min

Lab File: BE097487.D

Acq: 18 Mar 2016 4:26

Instrument :

BNA_E

ClientSampleId :

MDL-07-W

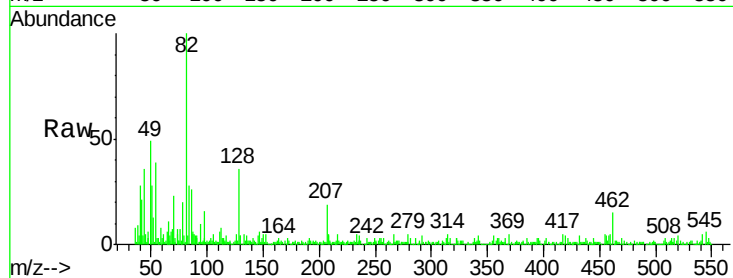
Tgt Ion: 82 Resp: 3647

Ion Ratio Lower Upper

82 100

128 36.0 23.5 35.3#

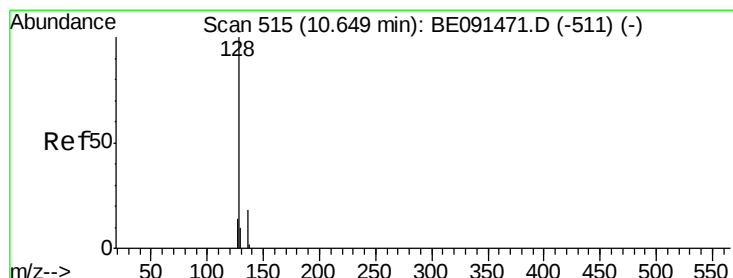
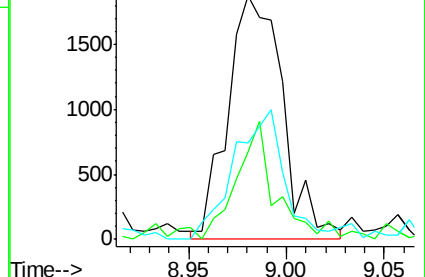
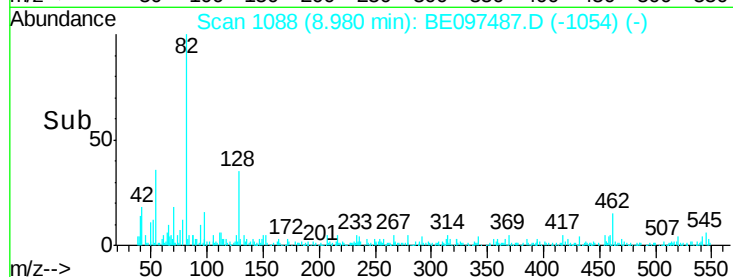
54 39.5 52.4 78.6#



Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): BE0

Ion 54.00 (53.70 to 54.70): BE0



#8

Naphthalene

Concen: 0.39 ng

RT: 10.66 min Scan# 1374

Delta R.T. 0.01 min

Lab File: BE097487.D

Acq: 18 Mar 2016 4:26

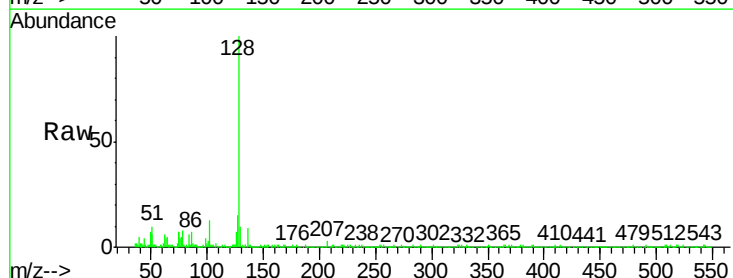
Tgt Ion: 128 Resp: 19798

Ion Ratio Lower Upper

128 100

129 9.9 8.2 12.2

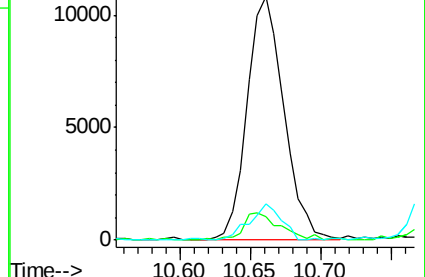
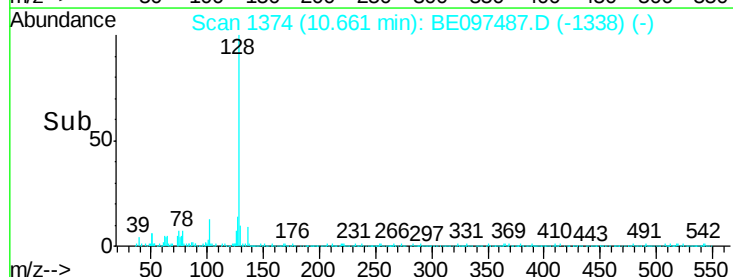
127 15.0 11.8 17.8

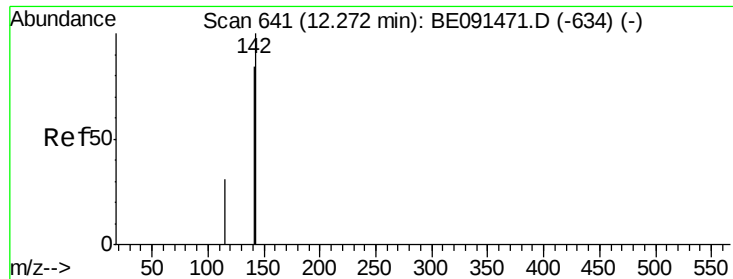


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





#9

2-Methylnaphthalene

Concen: 0.34 ng

RT: 12.27 min Scan# 1648

Delta R.T. -0.00 min

Lab File: BE097487.D

Acq: 18 Mar 2016 4:26

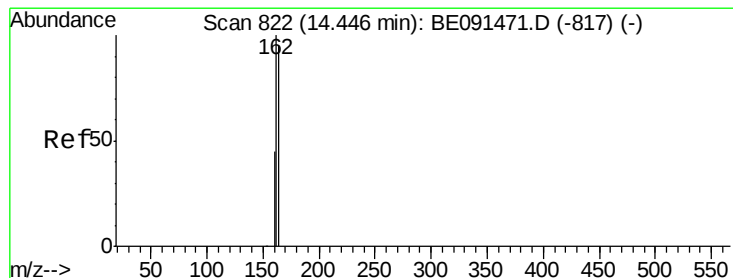
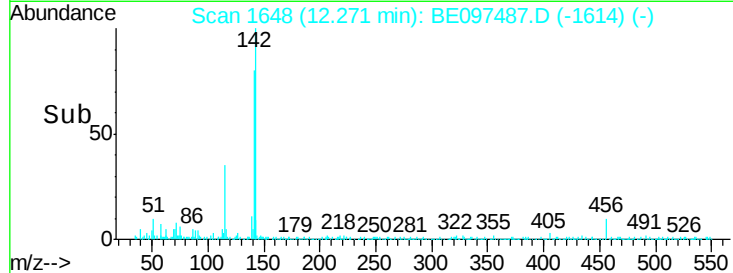
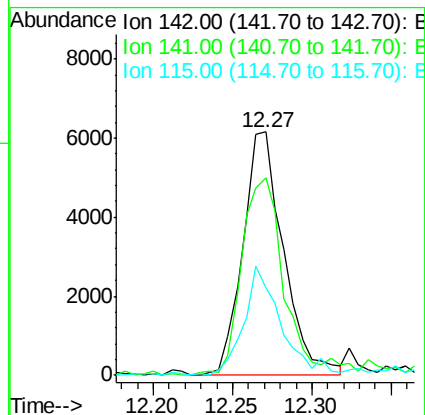
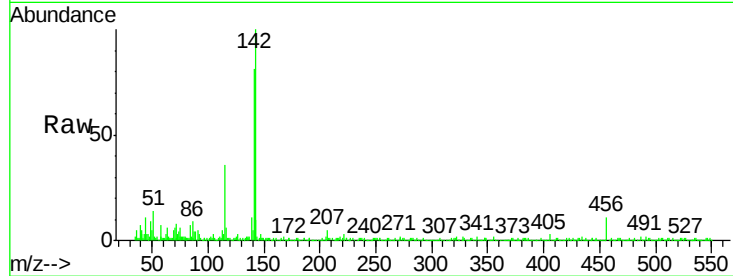
Instrument :

BNA_E

ClientSampleId :

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Tgt Ion:	142	Resp:	10895
Ion	Ratio	Lower	Upper
142	100		
141	81.1	66.9	100.3
115	35.9	25.1	37.7



#10

Acenaphthene-d10

Concen: 5.00 ng

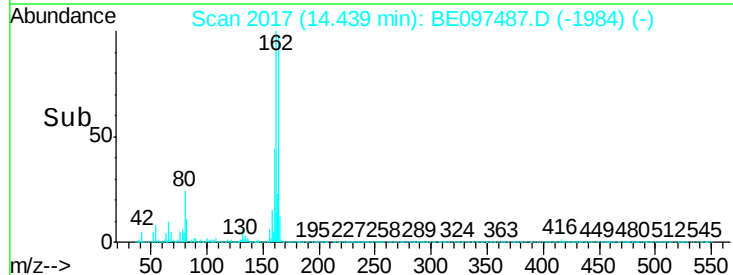
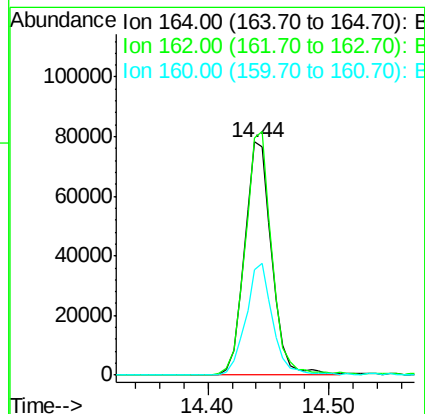
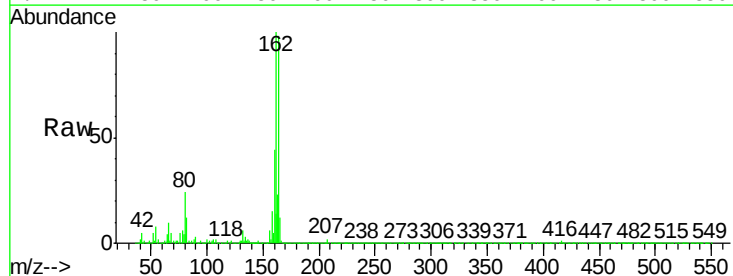
RT: 14.44 min Scan# 2017

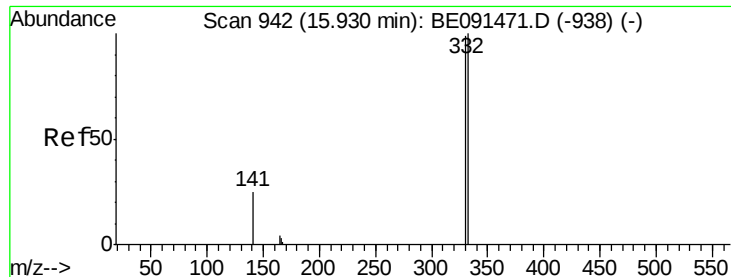
Delta R.T. -0.01 min

Lab File: BE097487.D

Acq: 18 Mar 2016 4:26

Tgt Ion:	164	Resp:	122126
Ion	Ratio	Lower	Upper
164	100		
162	101.9	84.4	126.6
160	45.0	37.7	56.5

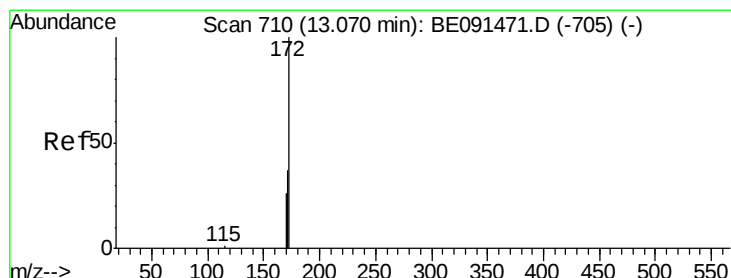
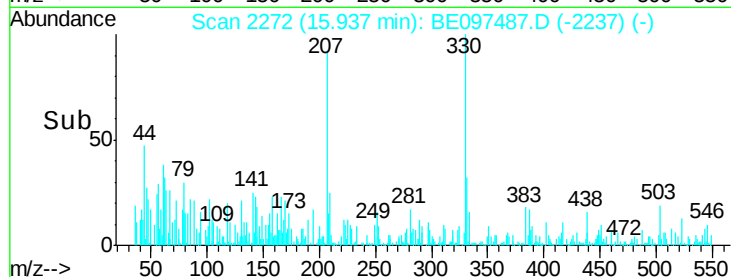
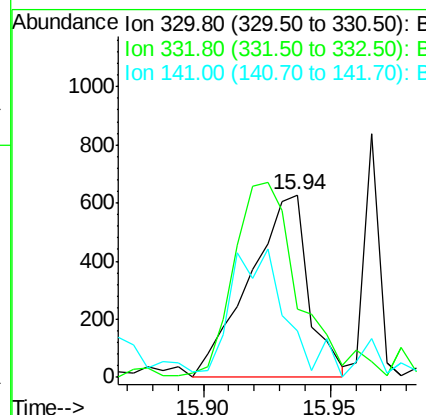
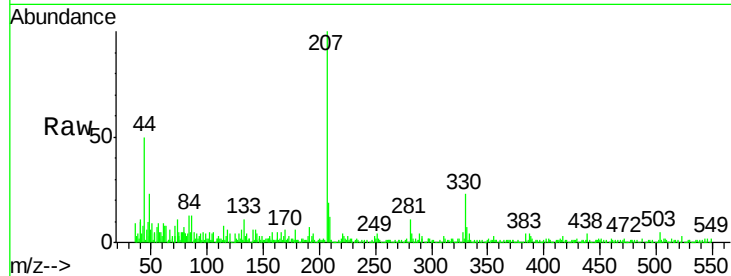




#11
2,4,6-Tribromophenol
Concen: 0.47 ng
RT: 15.94 min Scan# 2272
Delta R.T. 0.01 min
Lab File: BE097487.D
Acq: 18 Mar 2016 4:26

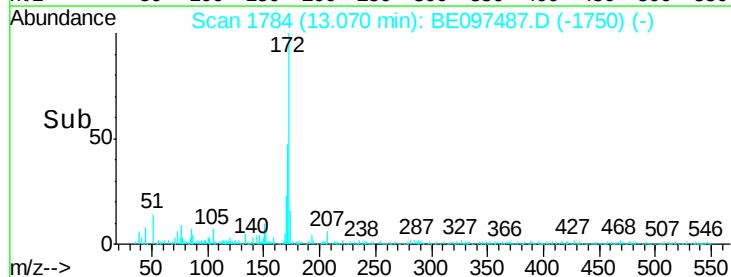
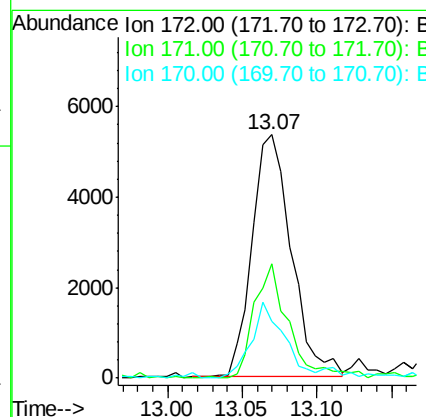
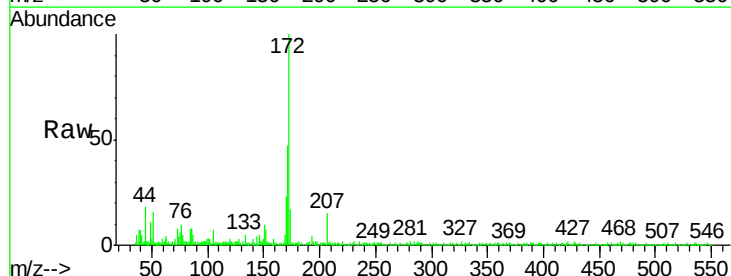
Instrument :
BNA_E
ClientSampleId :
MDL-07-W

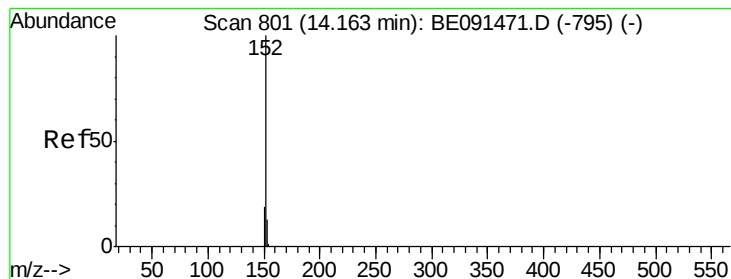
Tgt Ion:330 Resp: 1015
Ion Ratio Lower Upper
330 100
332 116.2 79.2 118.8
141 66.1 28.1 42.1#



#12
2-Fluorobiphenyl
Concen: 0.32 ng
RT: 13.07 min Scan# 1784
Delta R.T. -0.00 min
Lab File: BE097487.D
Acq: 18 Mar 2016 4:26

Tgt Ion:172 Resp: 9776
Ion Ratio Lower Upper
172 100
171 47.1 29.8 44.8#
170 23.2 21.4 32.2





#13

Acenaphthylene

Concen: 0.39 ng

RT: 14.16 min Scan# 1970

Delta R.T. 0.00 min

Lab File: BE097487.D

Acq: 18 Mar 2016 4:26

Instrument :

BNA_E

ClientSampleId :

MDL-07-W

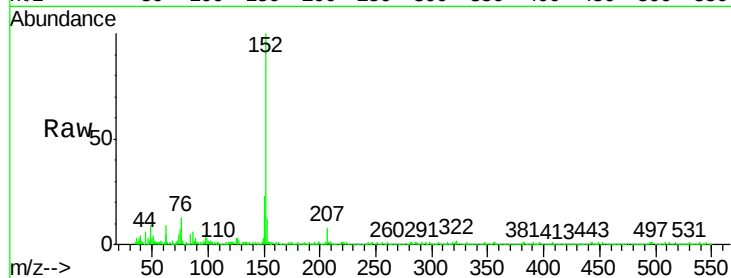
Tgt Ion:152 Resp: 16252

Ion Ratio Lower Upper

152 100

151 20.7 16.3 24.5

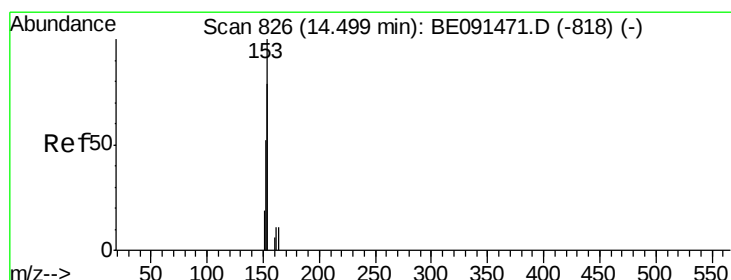
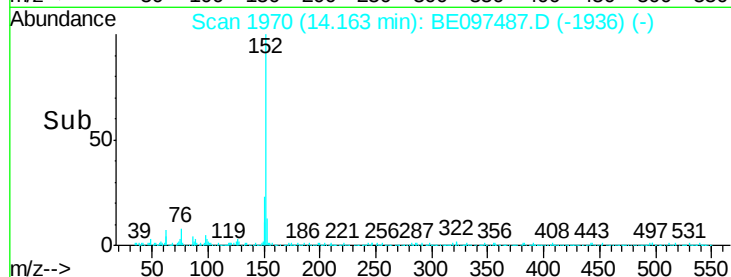
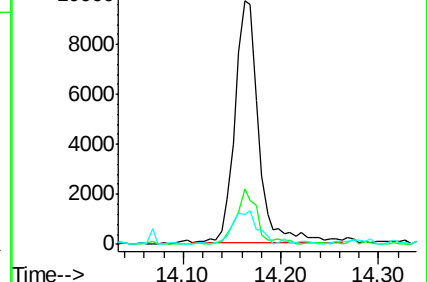
153 14.9 11.1 16.7



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: 0.38 ng

RT: 14.50 min Scan# 2028

Delta R.T. 0.00 min

Lab File: BE097487.D

Acq: 18 Mar 2016 4:26

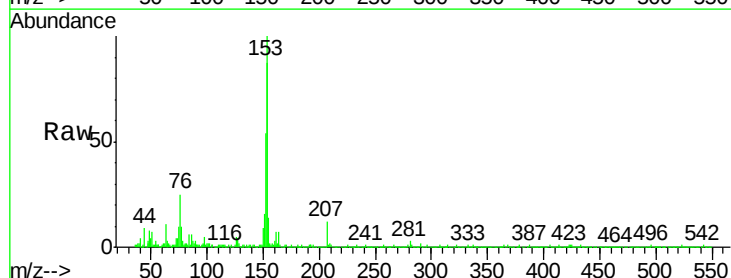
Tgt Ion:154 Resp: 14160

Ion Ratio Lower Upper

154 100

153 111.4 87.3 130.9

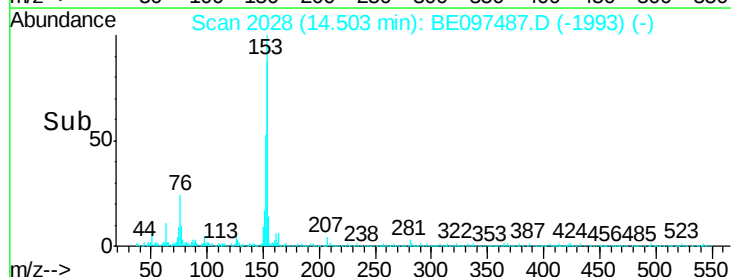
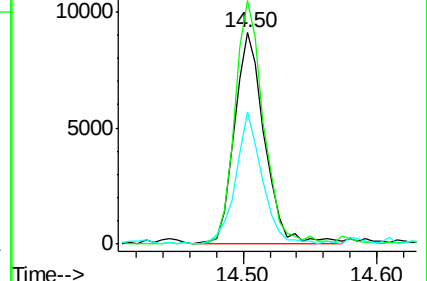
152 55.2 42.9 64.3

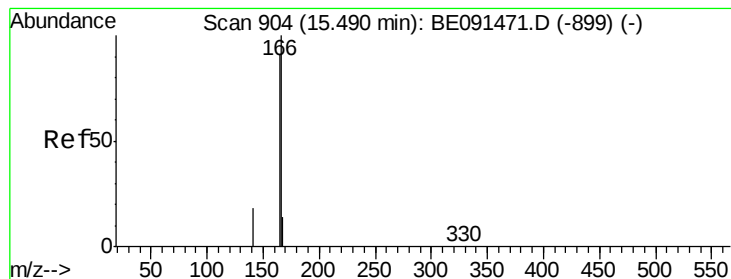


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#15

Fluorene

Concen: 0.38 ng

RT: 15.49 min Scan# 2196

Delta R.T. -0.00 min

Lab File: BE097487.D

Acq: 18 Mar 2016 4:26

Instrument :

BNA_E

ClientSampleId :

MDL-07-W

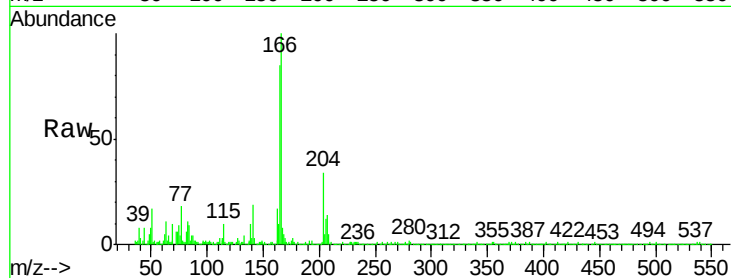
Tgt Ion:166 Resp: 18140

Ion Ratio Lower Upper

166 100

165 95.6 79.2 118.8

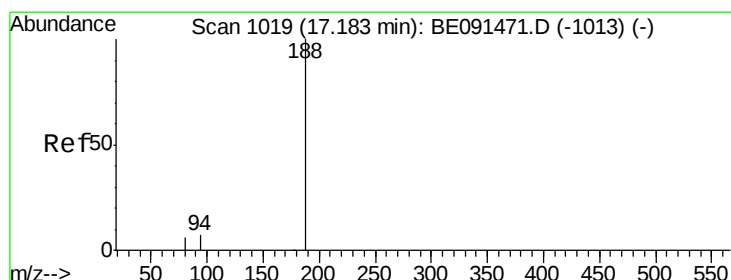
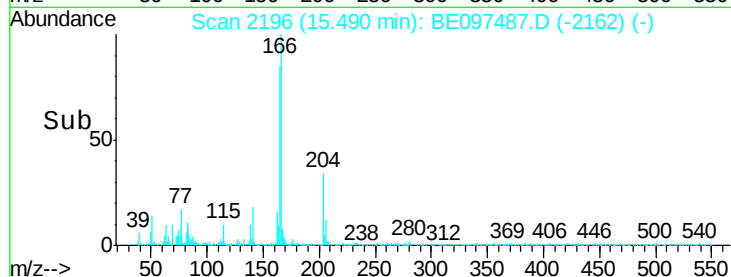
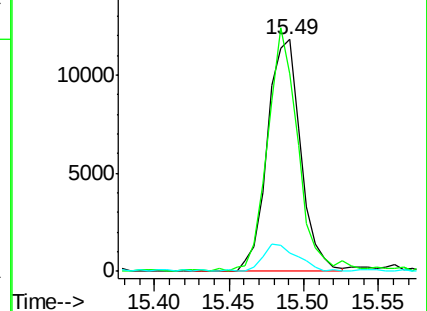
167 12.3 10.8 16.2



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: BE097487.D

Acq: 18 Mar 2016 4:26

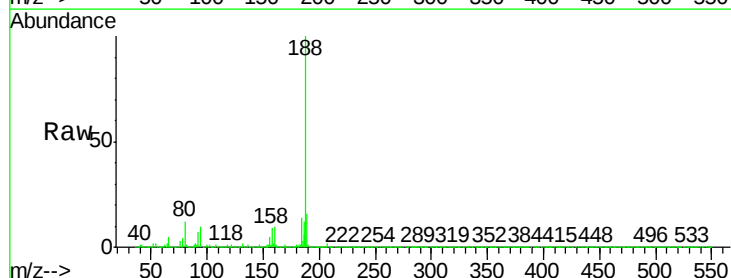
Tgt Ion:188 Resp: 301364

Ion Ratio Lower Upper

188 100

94 10.3 5.4 8.2#

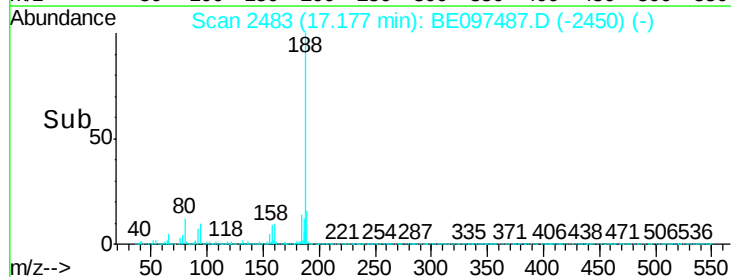
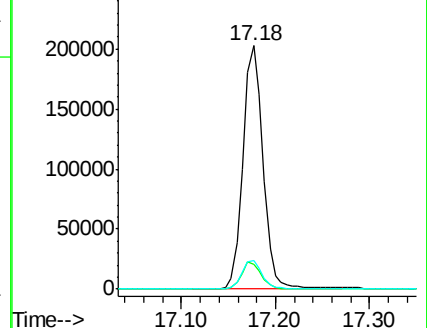
80 11.9 5.0 7.4#

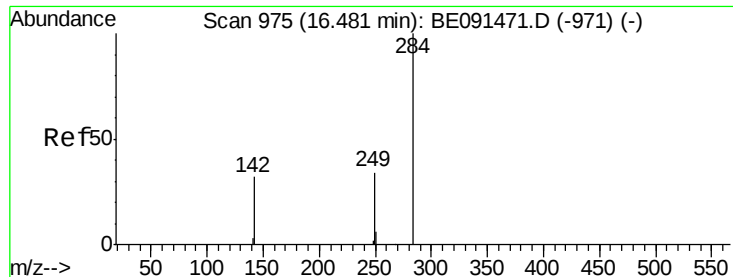


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0

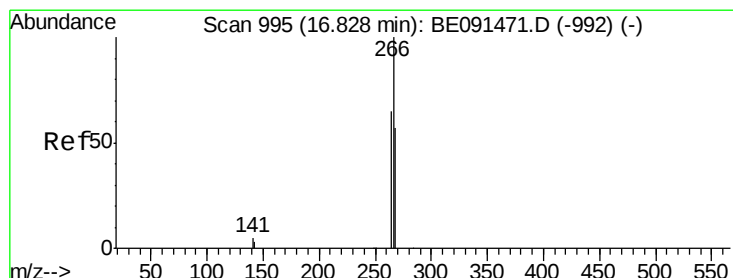
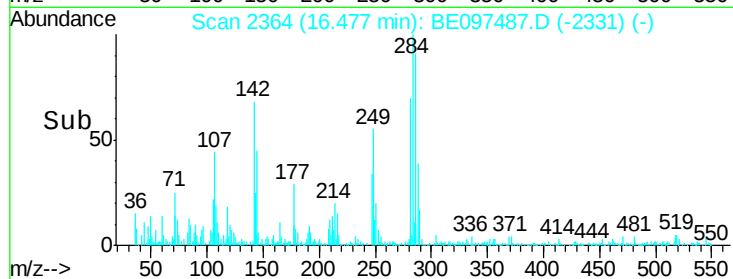
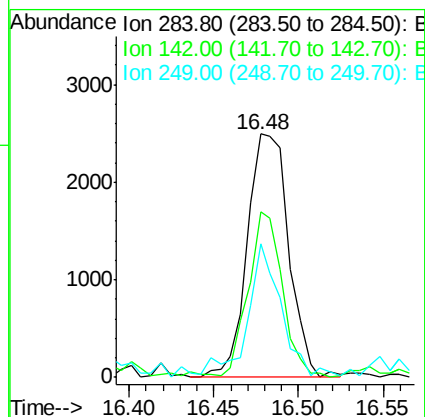
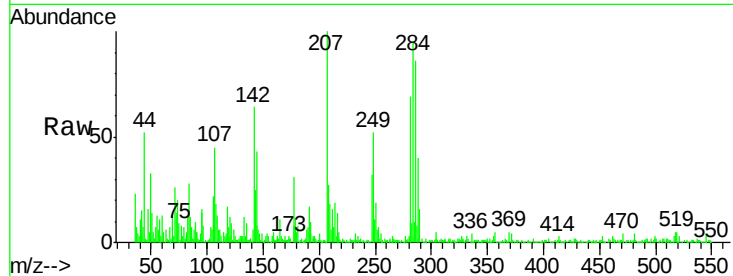




#17
Hexachlorobenzene
Concen: 0.32 ng
RT: 16.48 min Scan# 2364
Delta R.T. -0.00 min
Lab File: BE097487.D
Acq: 18 Mar 2016 4:26

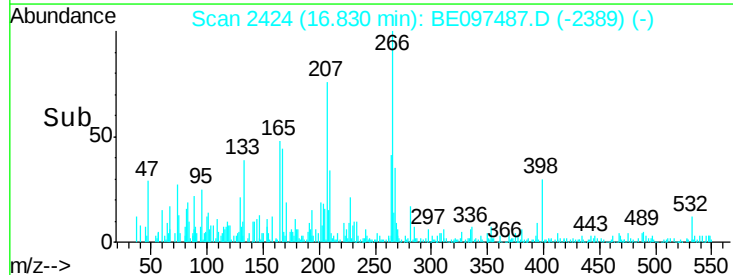
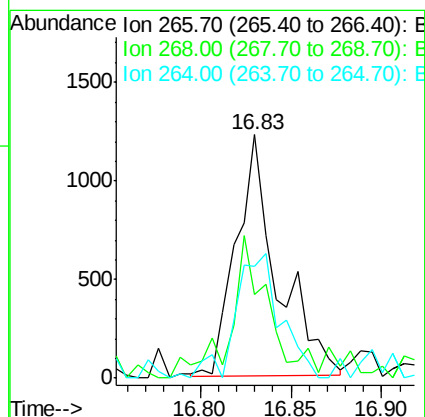
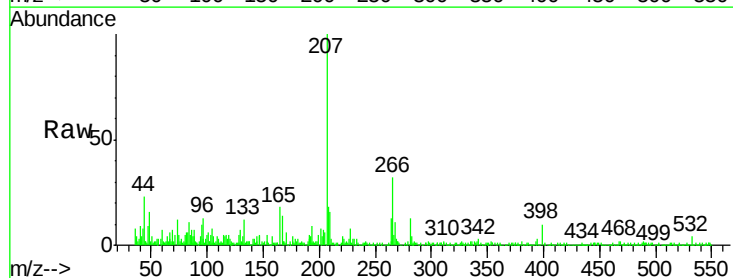
Instrument :
BNA_E
ClientSampleId :
MDL-07-W

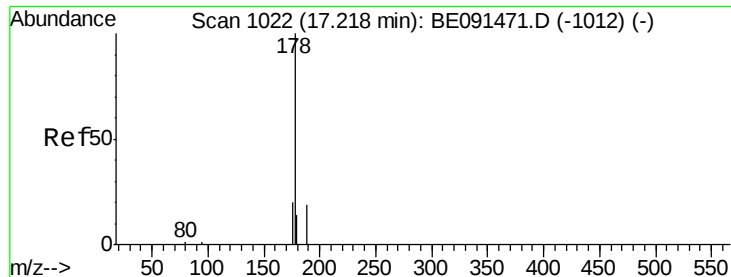
Tgt Ion:284 Resp: 4219
Ion Ratio Lower Upper
284 100
142 55.8 31.0 46.4#
249 43.4 25.8 38.8#



#18
Pentachlorophenol
Concen: 0.55 ng
RT: 16.83 min Scan# 2424
Delta R.T. 0.00 min
Lab File: BE097487.D
Acq: 18 Mar 2016 4:26

Tgt Ion:266 Resp: 1941
Ion Ratio Lower Upper
266 100
268 34.6 48.2 72.2#
264 45.7 52.1 78.1#





#19

Phenanthrene

Concen: 0.38 ng

RT: 17.22 min Scan# 2490

Delta R.T. 0.00 min

Lab File: BE097487.D

Acq: 18 Mar 2016 4:26

Instrument :

BNA_E

ClientSampled :

MDL-07-W

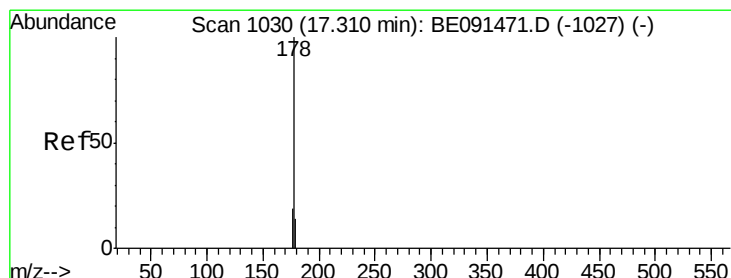
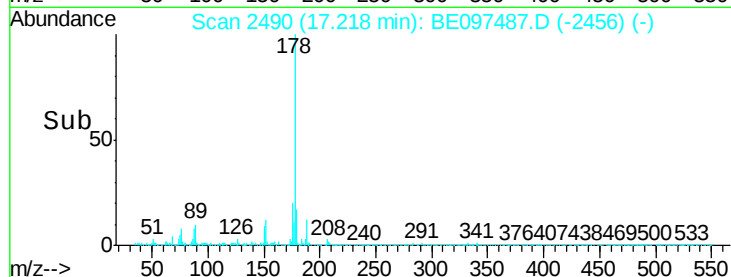
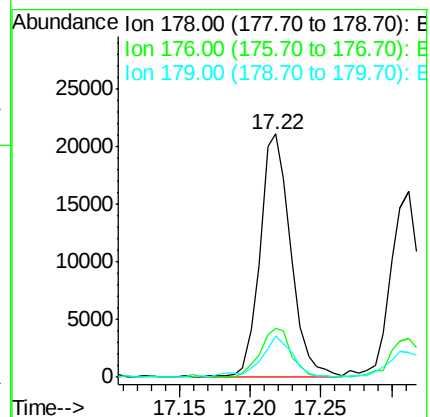
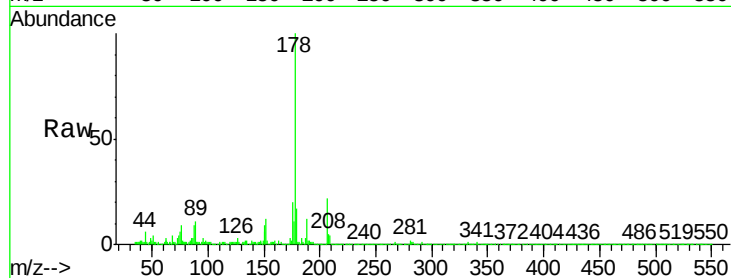
Tgt Ion:178 Resp: 32346

Ion Ratio Lower Upper

178 100

176 20.6 15.5 23.3

179 17.4 13.1 19.7



#20

Anthracene

Concen: 0.34 ng

RT: 17.31 min Scan# 2506

Delta R.T. 0.00 min

Lab File: BE097487.D

Acq: 18 Mar 2016 4:26

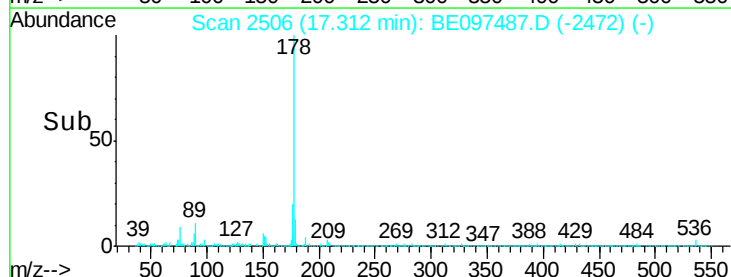
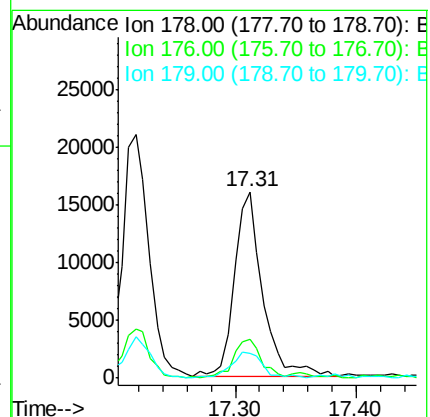
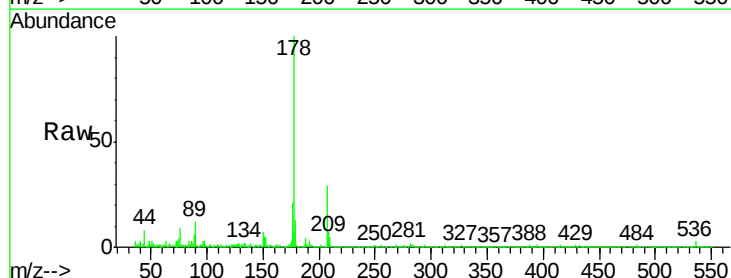
Tgt Ion:178 Resp: 25913

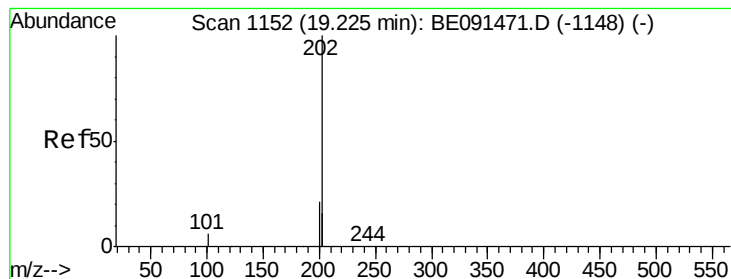
Ion Ratio Lower Upper

178 100

176 20.1 14.9 22.3

179 15.0 12.2 18.4





#21

Fluoranthene

Concen: 0.31 ng

RT: 19.23 min Scan# 2832

Delta R.T. 0.00 min

Lab File: BE097487.D

Acq: 18 Mar 2016 4:26

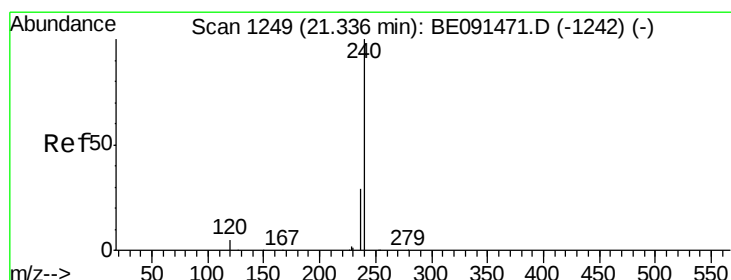
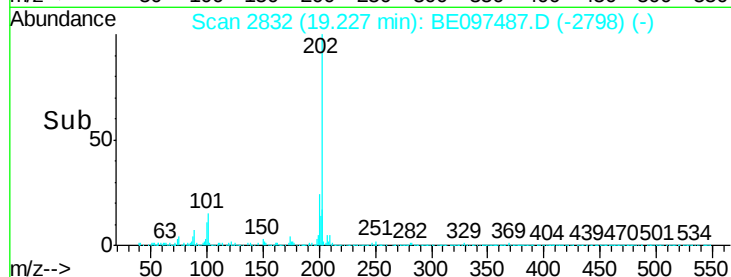
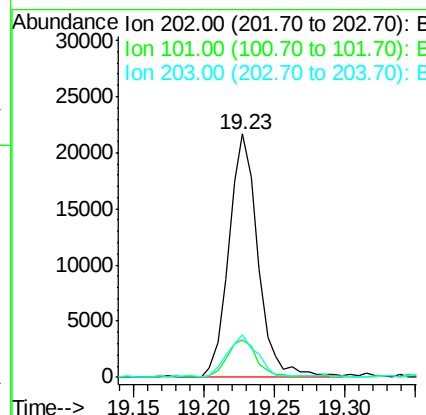
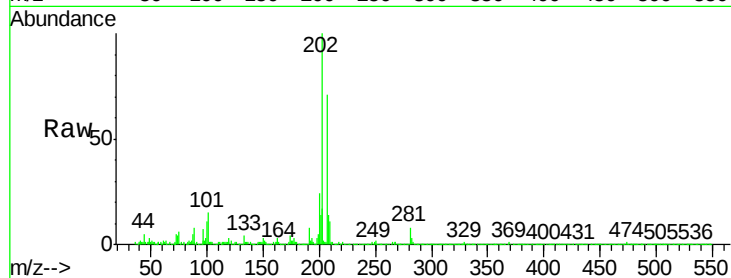
Instrument :

BNA_E

ClientSampleId :

MDL-07-W

Tgt Ion:	202	Resp:	31034
Ion Ratio	Lower	Upper	
202	100		
101	15.8	8.3	12.5#
203	17.9	13.9	20.9



#22

Chrysene-d12

Concen: 5.00 ng

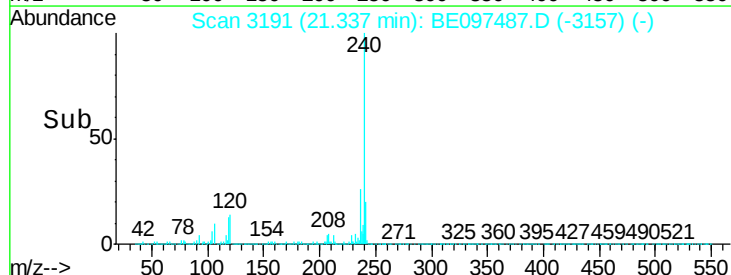
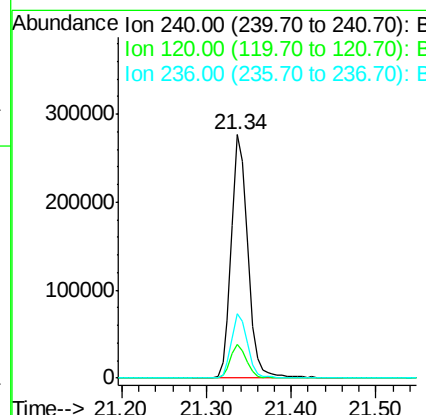
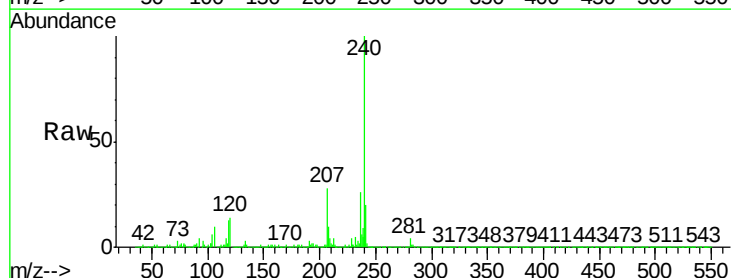
RT: 21.34 min Scan# 3191

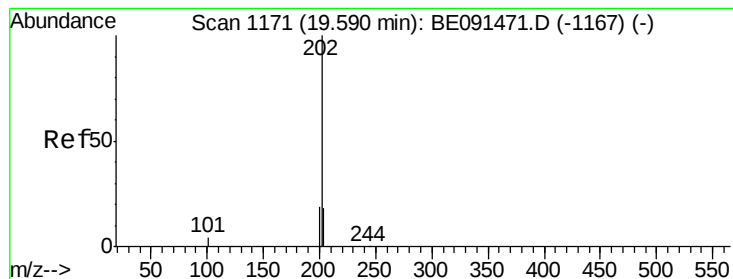
Delta R.T. 0.00 min

Lab File: BE097487.D

Acq: 18 Mar 2016 4:26

Tgt Ion:	240	Resp:	374153
Ion Ratio	Lower	Upper	
240	100		
120	13.7	4.0	6.0#
236	26.3	23.0	34.4





#23

Pyrene

Concen: 0.36 ng

RT: 19.59 min Scan# 2893

Delta R.T. -0.00 min

Lab File: BE097487.D

Acq: 18 Mar 2016 4:26

Instrument :

BNA_E

ClientSampleId :

MDL-07-W

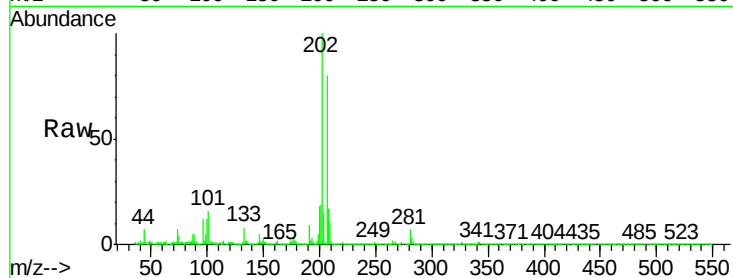
Tgt Ion:202 Resp: 33701

Ion Ratio Lower Upper

202 100

200 22.8 16.4 24.6

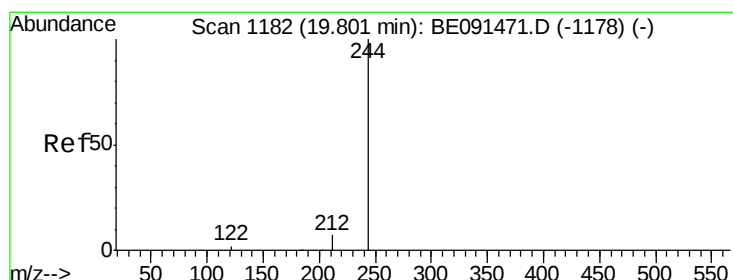
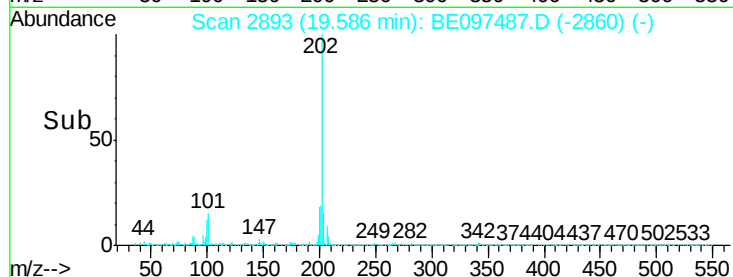
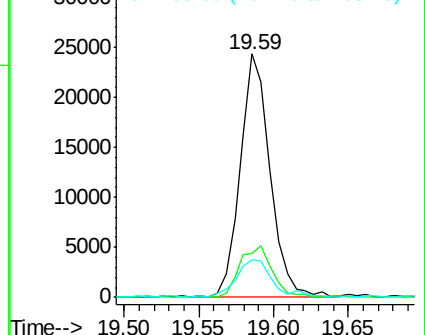
203 19.2 14.6 21.8



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: 0.40 ng

RT: 19.79 min Scan# 2928

Delta R.T. -0.01 min

Lab File: BE097487.D

Acq: 18 Mar 2016 4:26

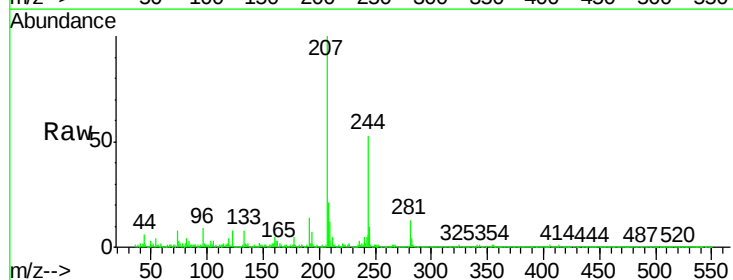
Tgt Ion:244 Resp: 18116

Ion Ratio Lower Upper

244 100

212 8.9 5.8 8.8#

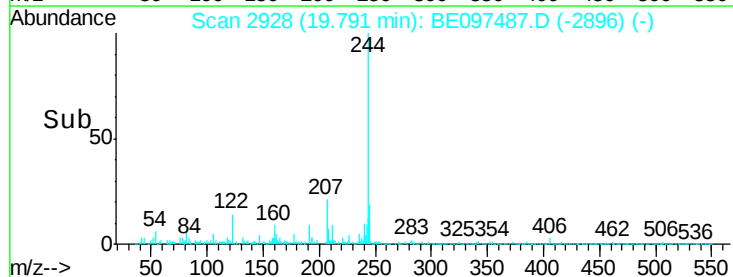
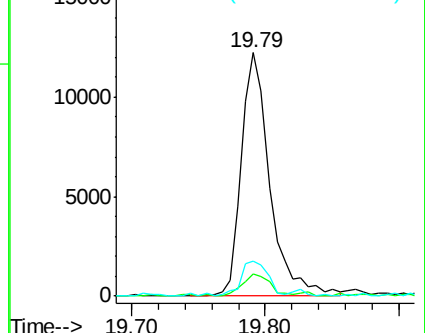
122 14.3 1.8 2.8#

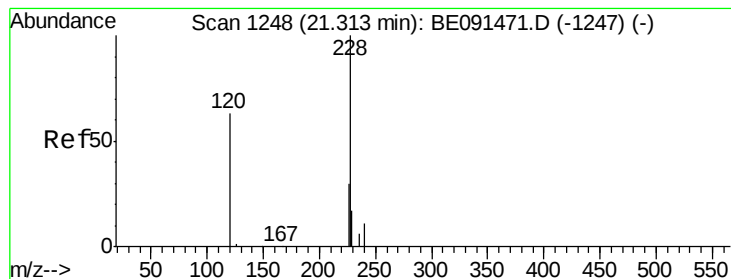


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#25

Benzo(a)anthracene

Concen: 0.34 ng

RT: 21.32 min Scan# 3189

Delta R.T. 0.01 min

Lab File: BE097487.D

Acq: 18 Mar 2016 4:26

Instrument :

BNA_E

ClientSampleId :

MDL-07-W

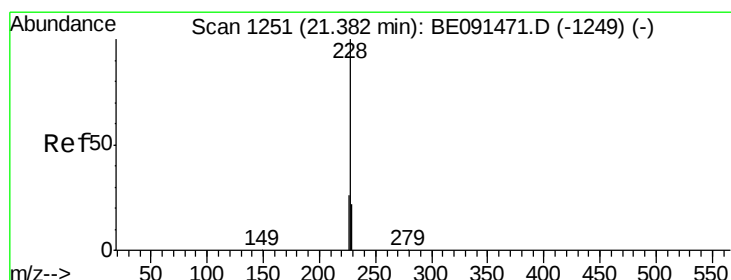
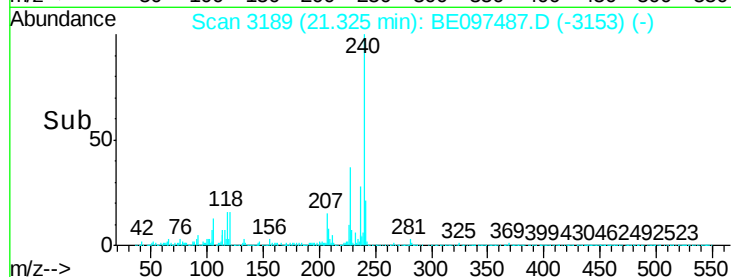
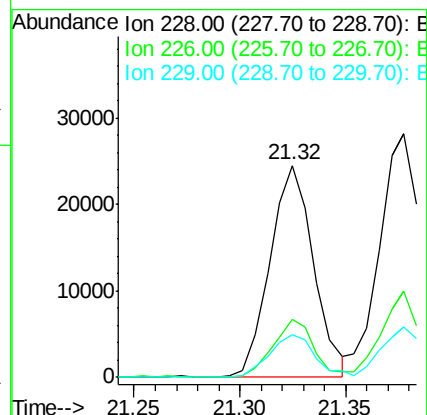
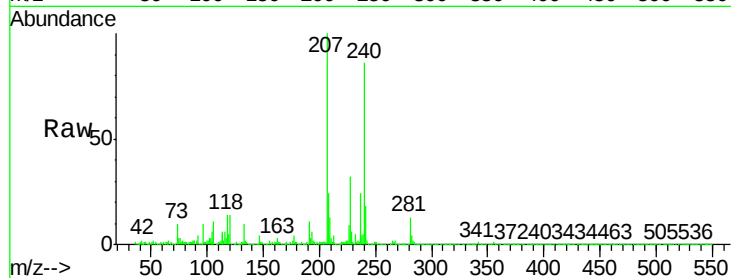
Tgt Ion:228 Resp: 35158

Ion Ratio Lower Upper

228 100

226 27.5 24.0 36.0

229 19.9 13.8 20.6



#26

Chrysene

Concen: 0.28 ng

RT: 21.32 min Scan# 3189

Delta R.T. -0.06 min

Lab File: BE097487.D

Acq: 18 Mar 2016 4:26

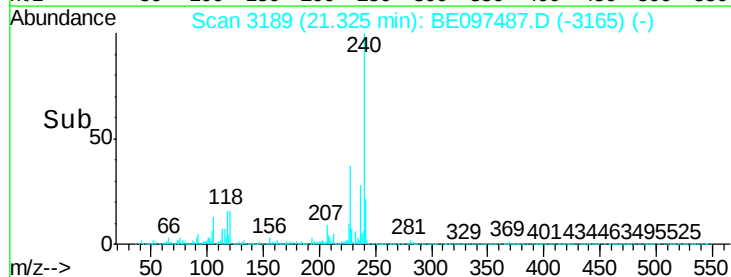
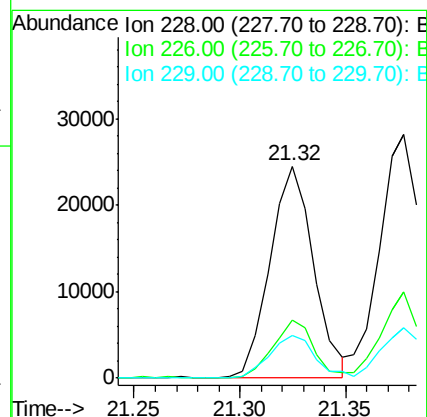
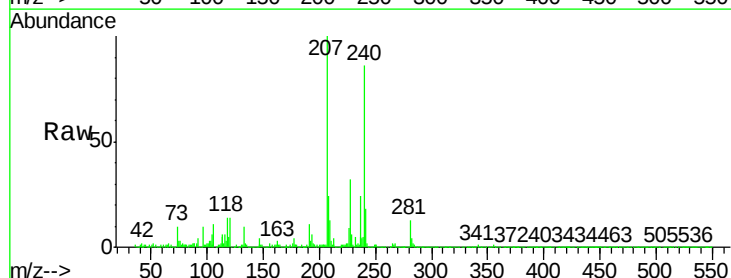
Tgt Ion:228 Resp: 35158

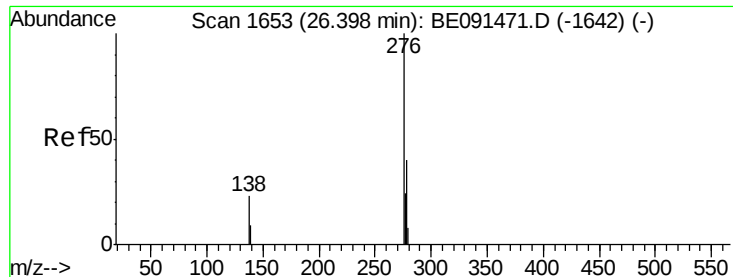
Ion Ratio Lower Upper

228 100

226 27.5 18.9 28.3

229 19.9 19.1 28.7





#27

Indeno(1,2,3-cd)pyrene

Concen: 0.33 ng

RT: 26.40 min Scan# 4052

Delta R.T. -0.00 min

Lab File: BE097487.D

Acq: 18 Mar 2016 4:26

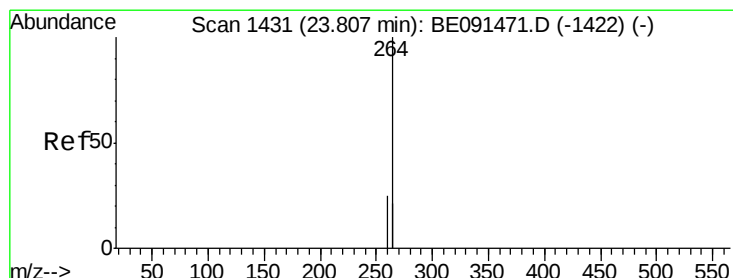
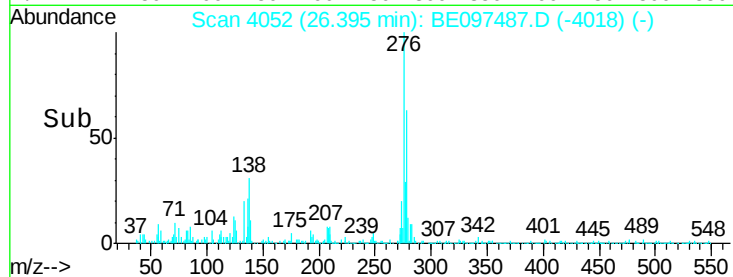
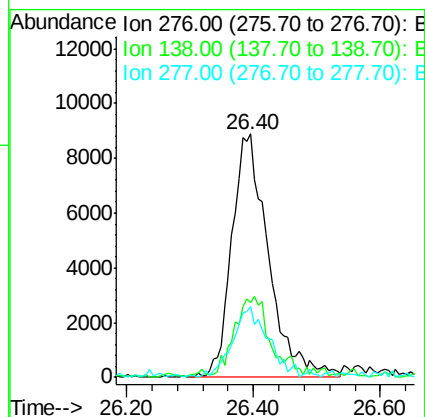
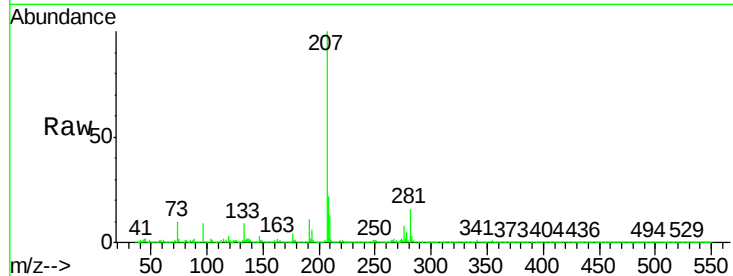
Instrument :

BNA_E

ClientSampleId :

MDL-07-W

Tgt Ion:	276	Resp:	35593
Ion	Ratio	Lower	Upper
276	100		
138	28.0	20.2	30.4
277	28.0	19.8	29.8



#28

Perylene-d12

Concen: 5.00 ng

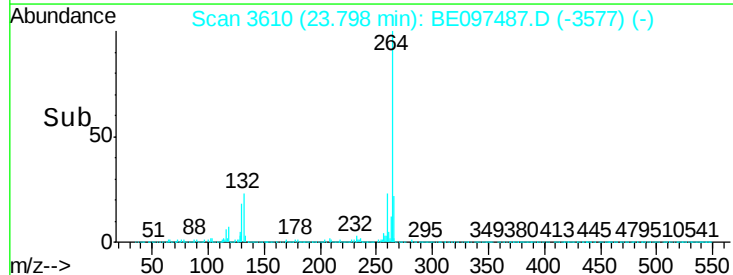
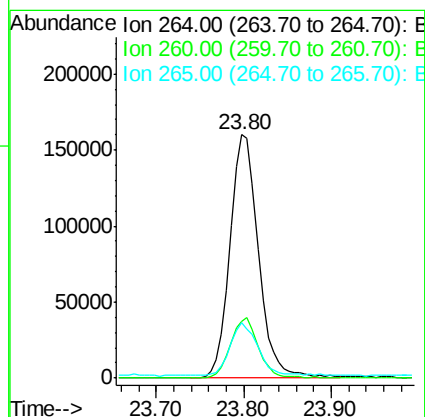
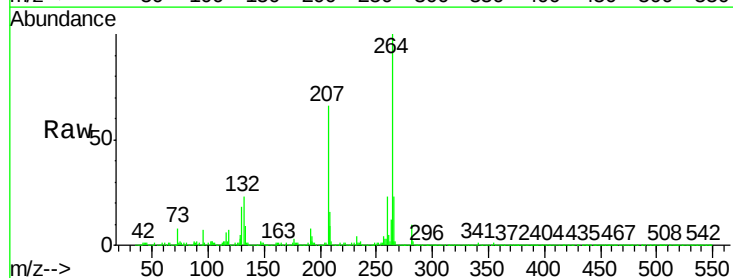
RT: 23.80 min Scan# 3610

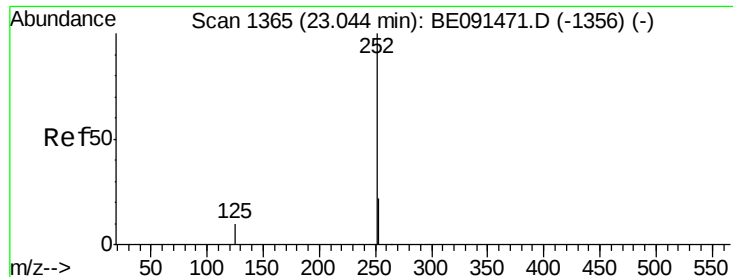
Delta R.T. -0.01 min

Lab File: BE097487.D

Acq: 18 Mar 2016 4:26

Tgt Ion:	264	Resp:	355788
Ion	Ratio	Lower	Upper
264	100		
260	23.4	20.1	30.1
265	22.8	18.3	27.5





#29

Benzo(b)fluoranthene

Concen: 0.32 ng

RT: 23.05 min Scan# 3483

Delta R.T. 0.01 min

Lab File: BE097487.D

Acq: 18 Mar 2016 4:26

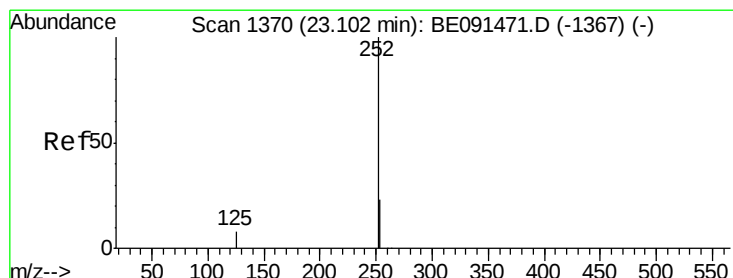
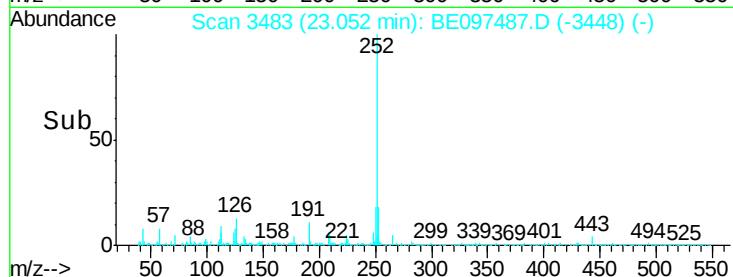
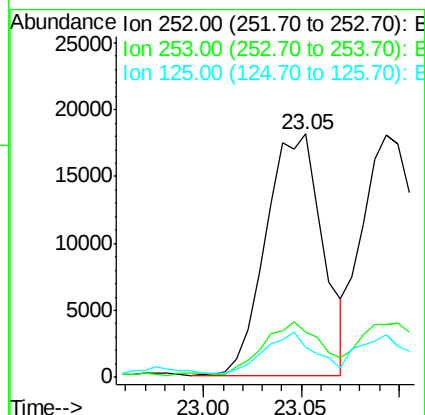
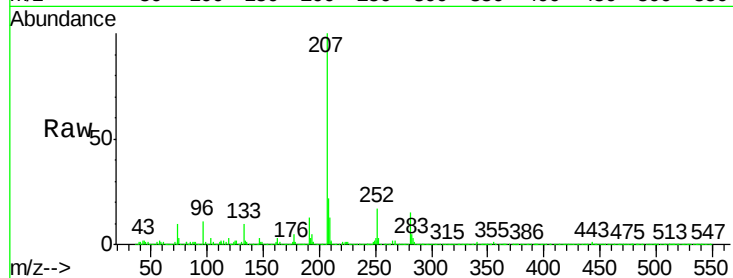
Instrument :

BNA_E

ClientSampleId :

MDL-07-W

Tgt Ion:	252	Resp:	36359
Ion Ratio	Lower	Upper	
252	100		
253	18.8	18.7	28.1
125	12.2	9.8	14.6



#30

Benzo(k)fluoranthene

Concen: 0.32 ng

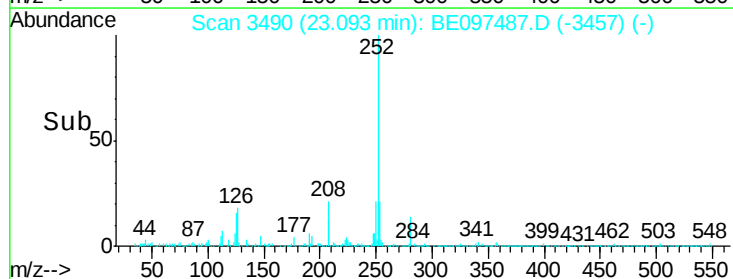
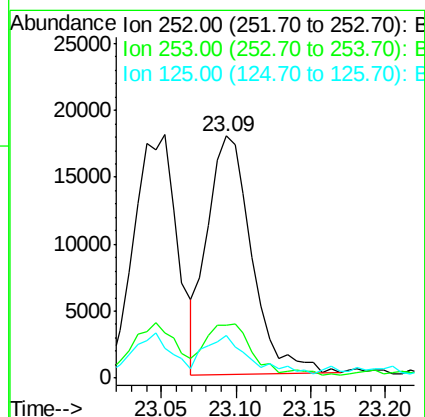
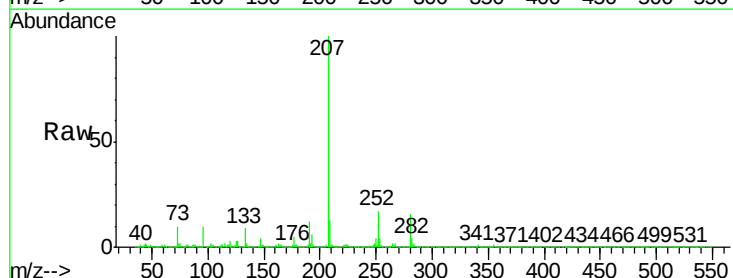
RT: 23.09 min Scan# 3490

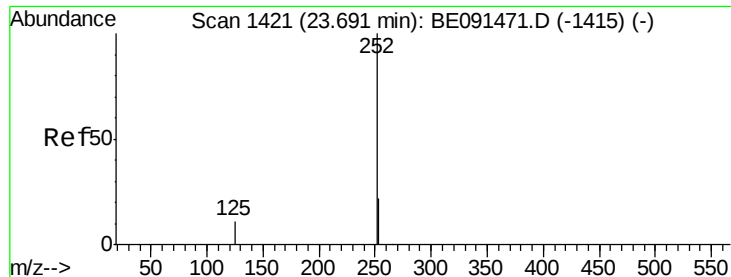
Delta R.T. -0.01 min

Lab File: BE097487.D

Acq: 18 Mar 2016 4:26

Tgt Ion:	252	Resp:	36839
Ion Ratio	Lower	Upper	
252	100		
253	21.6	20.2	30.4
125	17.7	9.4	14.2#





#31

Benzo(a)pyrene

Concen: 0.31 ng

RT: 23.69 min Scan# 3592

Delta R.T. 0.00 min

Lab File: BE097487.D

Acq: 18 Mar 2016 4:26

Instrument :

BNA_E

ClientSampleId :

MDL-07-W

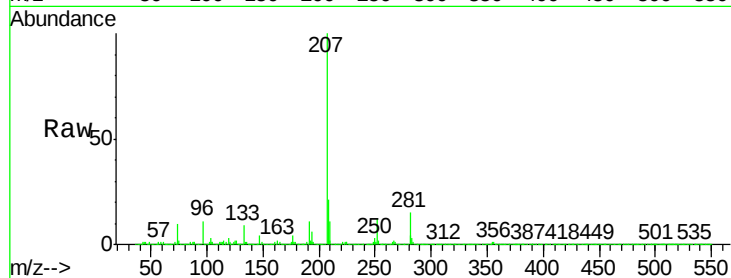
Tgt Ion:252 Resp: 31198

Ion Ratio Lower Upper

252 100

253 18.9 19.4 29.0#

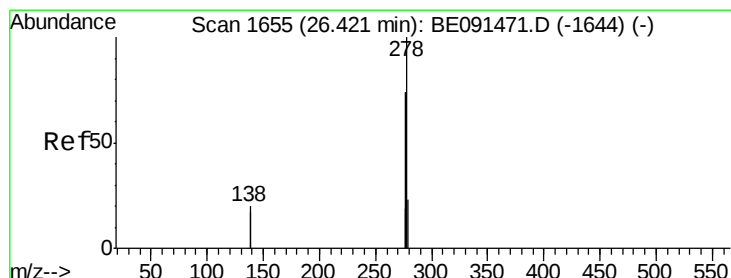
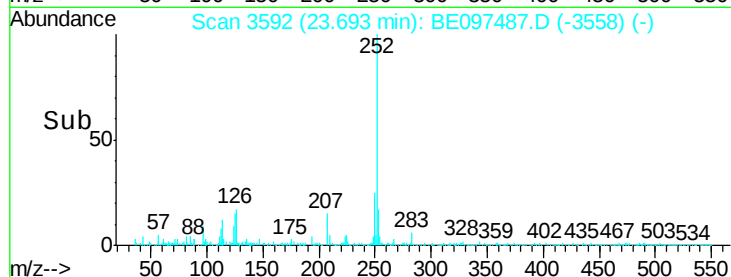
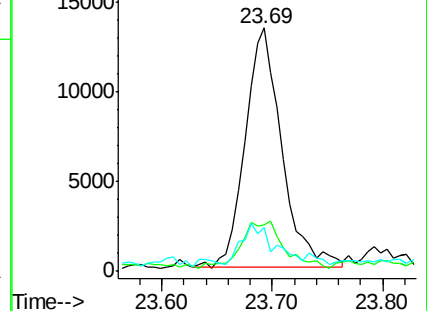
125 18.2 11.4 17.2#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#32

Dibenzo(a,h)anthracene

Concen: 0.30 ng

RT: 26.42 min Scan# 4056

Delta R.T. -0.00 min

Lab File: BE097487.D

Acq: 18 Mar 2016 4:26

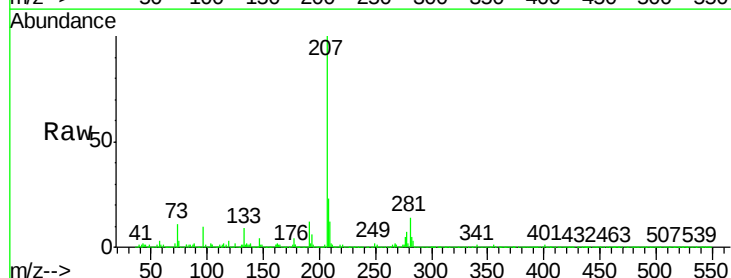
Tgt Ion:278 Resp: 29376

Ion Ratio Lower Upper

278 100

139 27.0 14.2 21.4#

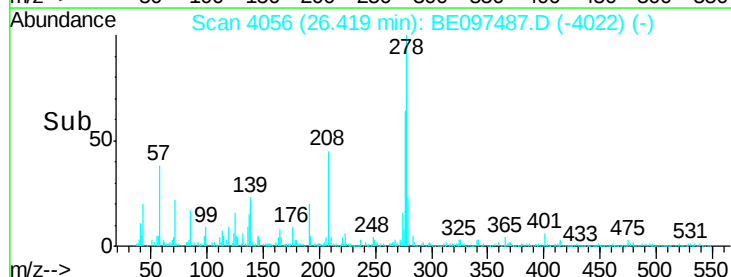
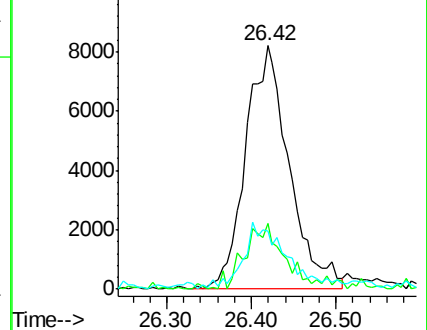
279 24.1 19.6 29.4

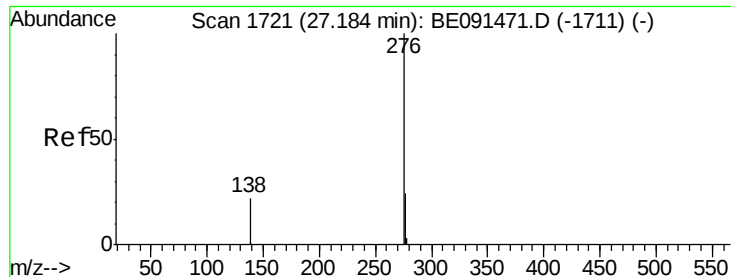


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#33

Benzo(g,h,i)perylene

Concen: 0.30 ng

RT: 27.18 min Scan# 4186

Delta R.T. -0.00 min

Lab File: BE097487.D

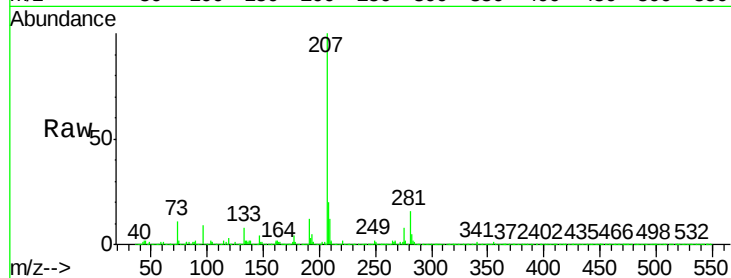
Acq: 18 Mar 2016 4:26

Instrument :

BNA_E

ClientSampleId :

MDL-07-W



Tgt Ion:	276	Resp:	30945
Ion Ratio		Lower	Upper
276	100		
277	30.3	19.4	29.2#
138	29.0	18.2	27.4#

