

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE032816\
 Data File : BE091533.D
 Acq On : 28 Mar 2016 10:59
 Operator : UM/SJ
 Sample : H1739-22
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 RR-PAH-WP

Quant Time: Mar 28 12:16:37 2016
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-SIM-BE032516.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Mar 25 19:00:32 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.82	152	37889	5.00	ng	0.00
6) Naphthalene-d8	10.59	136	180456	5.00	ng	0.00
10) Acenaphthene-d10	14.43	164	113992	5.00	ng	-0.01
16) Phenanthrene-d10	17.17	188	282691	5.00	ng	0.00
22) Chrysene-d12	21.33	240	303907	5.00	ng	0.00
28) Perylene-d12	23.78	264	293602	5.00	ng	-0.01

System Monitoring Compounds						
4) 2-Fluorophenol	5.41	112	62734	8.49	ng	-0.02
5) Phenol-d6	6.97	99	93116	9.24	ng	-0.02
7) Nitrobenzene-d5	8.97	82	30752	3.92	ng	-0.01
11) 2,4,6-Tribromophenol	15.92	330	15991	8.25	ng	0.00
12) 2-Fluorobiphenyl	13.06	172	137630	4.29	ng	-0.01
24) Terphenyl-d14	19.78	244	228201	4.57	ng	0.00

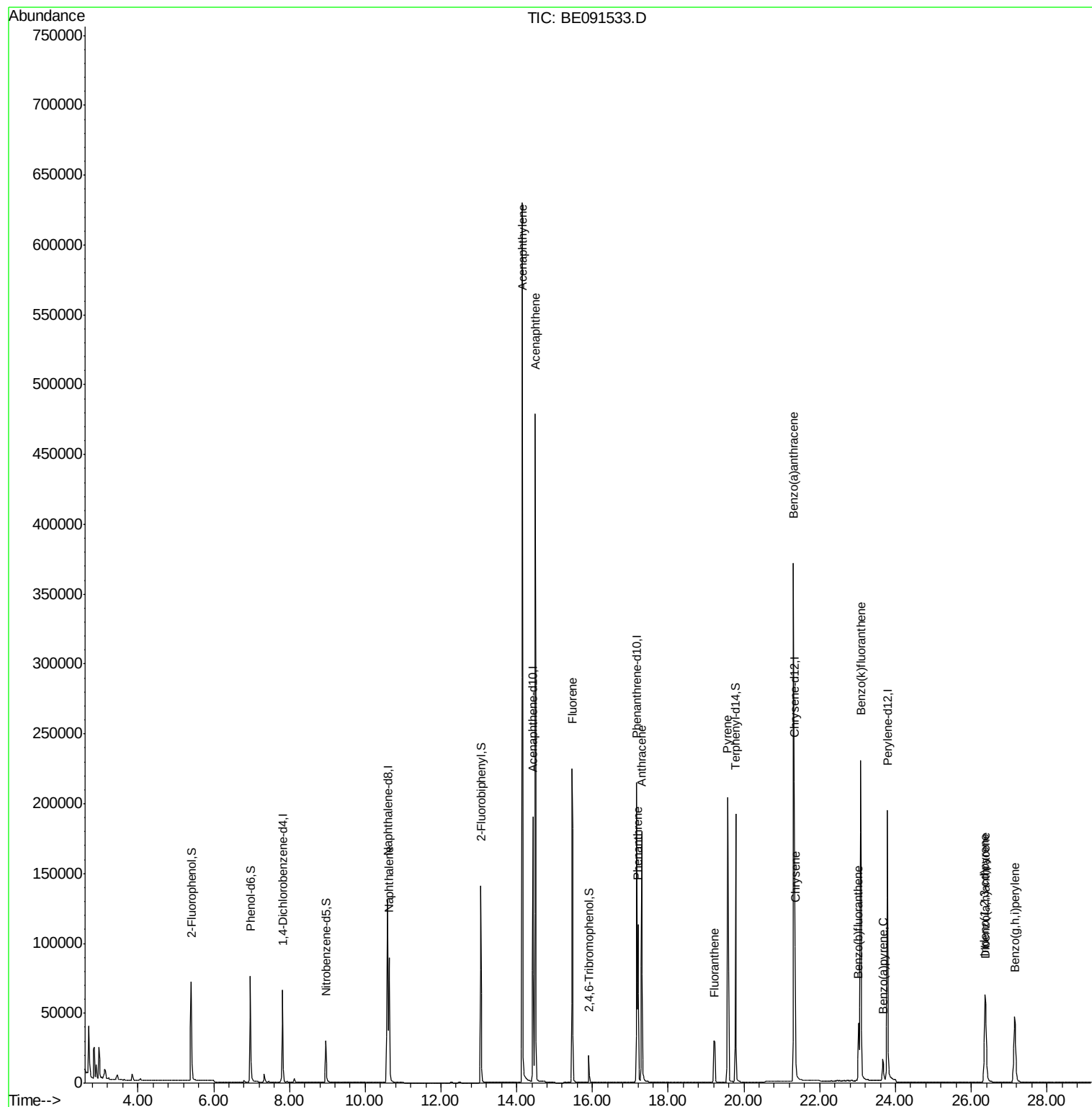
Target Compounds					Qvalue
8) Naphthalene	10.63	128	160682	4.42	ng 100
13) Acenaphthylene	14.15	152	750527	18.79	ng 98
14) Acenaphthene	14.49	154	251175	8.90	ng 95
15) Fluorene	15.47	166	166272	4.83	ng 99
19) Phenanthrene	17.21	178	120369	1.86	ng 99
20) Anthracene	17.30	178	195739	3.65	ng 99
21) Fluoranthene	19.22	202	48287	0.80	ng 98
23) Pyrene	19.57	202	227279	3.17	ng 97
25) Benzo(a)anthracene	21.31	228	295671m	4.21	ng
26) Chrysene	21.36	228	98060m	1.06	ng
27) Indeno(1,2,3-cd)pyrene	26.36	276	89814	1.25	ng 99
29) Benzo(b)fluoranthene	23.02	252	65444m	1.00	ng
30) Benzo(k)fluoranthene	23.08	252	342749m	5.27	ng
31) Benzo(a)pyrene	23.67	252	26635	0.60	ng 97
32) Dibenzo(a,h)anthracene	26.39	278	87020	1.51	ng 98
33) Benzo(g,h,i)perylene	27.15	276	109189	1.81	ng 99

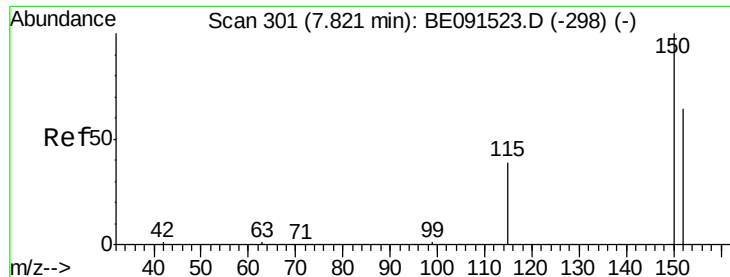
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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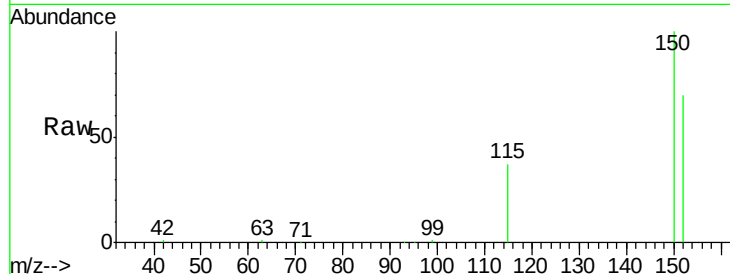




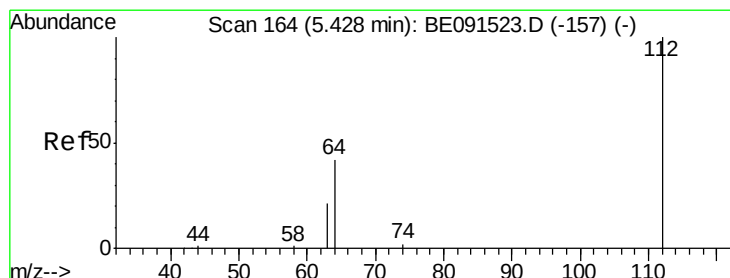
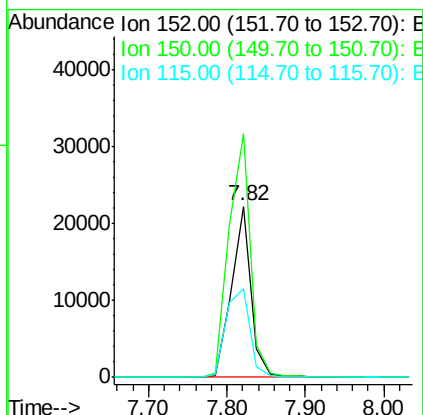
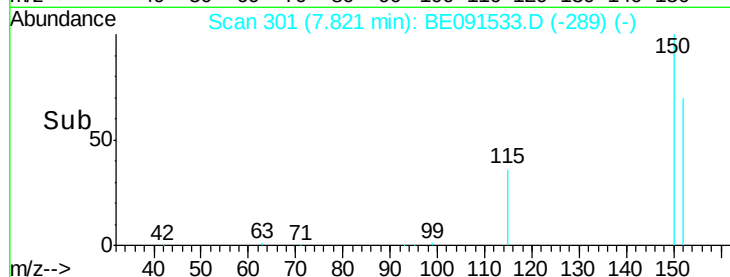
#1
 1,4-Dichlorobenzene-d4
 Concen: 5.00 ng
 RT: 7.82 min Scan# 301
 Delta R.T. 0.00 min
 Lab File: BE091533.D
 Acq: 28 Mar 2016 10:59

Instrument :
 BNA_E
 ClientSampleId :
 RR-PAH-WP

Tgt Ion:152 Resp: 37889
 Ion Ratio Lower Upper
 152 100
 150 142.5 122.2 183.2
 115 52.2 45.9 68.9

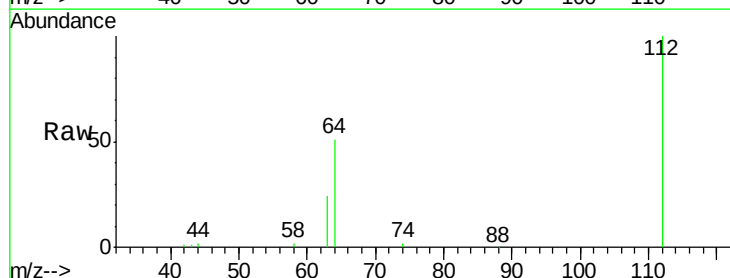


Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E

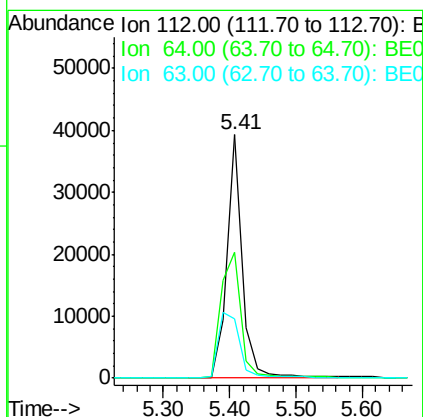
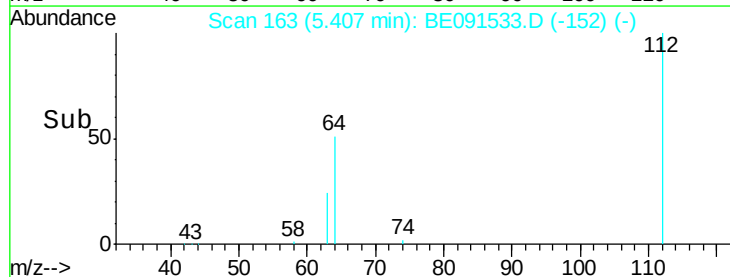


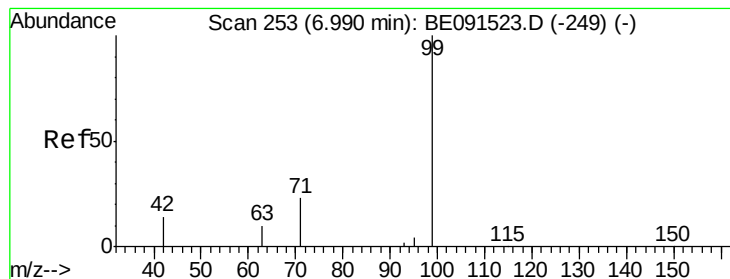
#4
 2-Fluorophenol
 Concen: 8.49 ng
 RT: 5.41 min Scan# 163
 Delta R.T. -0.02 min
 Lab File: BE091533.D
 Acq: 28 Mar 2016 10:59

Tgt Ion:112 Resp: 62734
 Ion Ratio Lower Upper
 112 100
 64 67.8 53.3 79.9
 63 37.7 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: 9.24 ng

RT: 6.97 min Scan# 252

Delta R.T. -0.02 min

Lab File: BE091533.D

Acq: 28 Mar 2016 10:59

Instrument :

BNA_E

ClientSampleId :

RR-PAH-WP

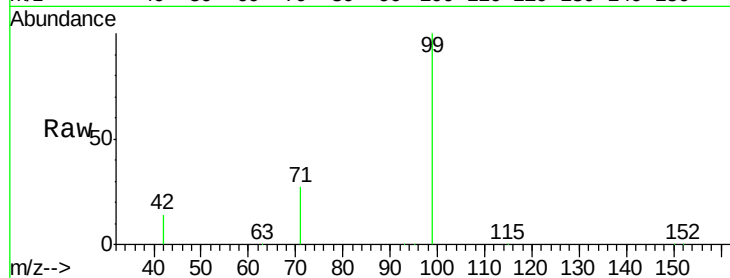
Tgt Ion: 99 Resp: 93116

Ion Ratio Lower Upper

99 100

42 27.0 20.6 30.8

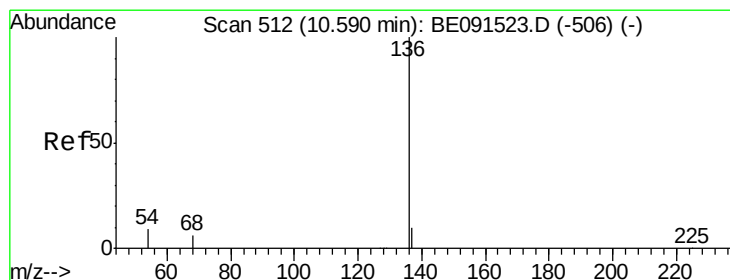
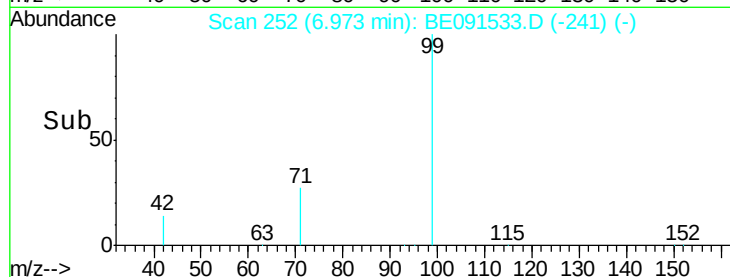
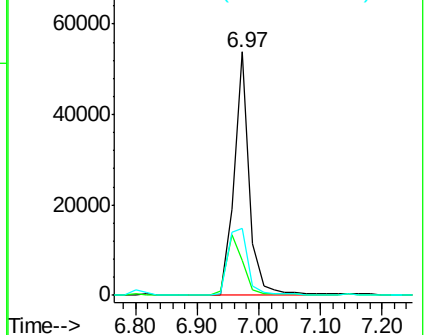
71 36.8 29.0 43.4



Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0



#6

Naphthalene-d8

Concen: 5.00 ng

RT: 10.59 min Scan# 512

Delta R.T. -0.00 min

Lab File: BE091533.D

Acq: 28 Mar 2016 10:59

Tgt Ion: 136 Resp: 180456

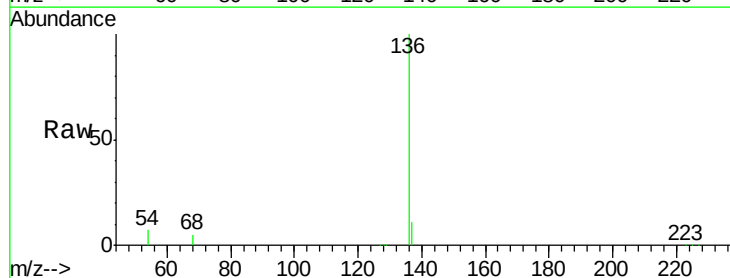
Ion Ratio Lower Upper

136 100

137 11.0 8.8 13.2

54 7.1 5.2 7.8

68 5.1 4.1 6.1

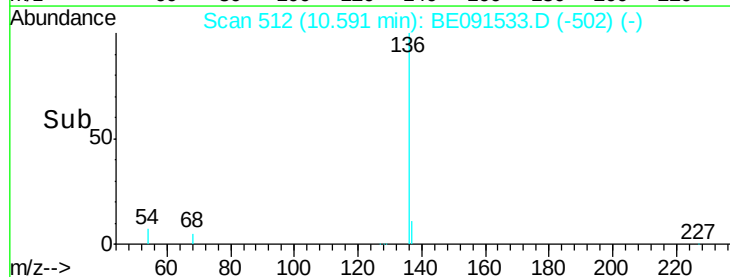
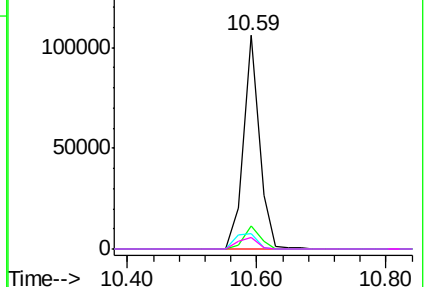


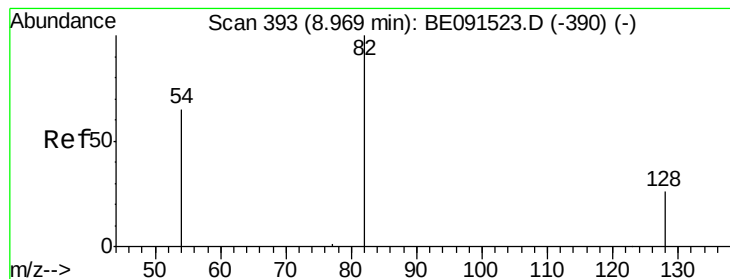
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0

Ion 68.00 (67.70 to 68.70): BE0





#7

Nitrobenzene-d5

Concen: 3.92 ng

RT: 8.97 min Scan# 393

Delta R.T. -0.01 min

Lab File: BE091533.D

Acq: 28 Mar 2016 10:59

Instrument :

BNA_E

ClientSampleId :

RR-PAH-WP

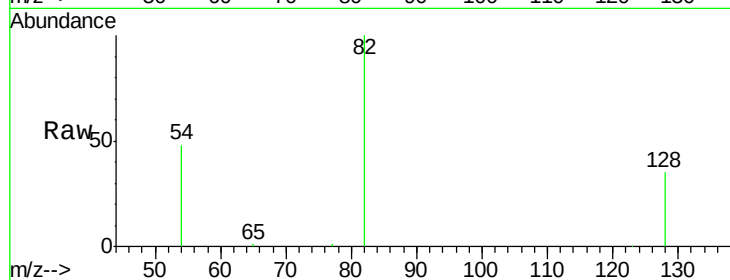
Tgt Ion: 82 Resp: 30752

Ion Ratio Lower Upper

82 100

128 35.0 23.5 35.3

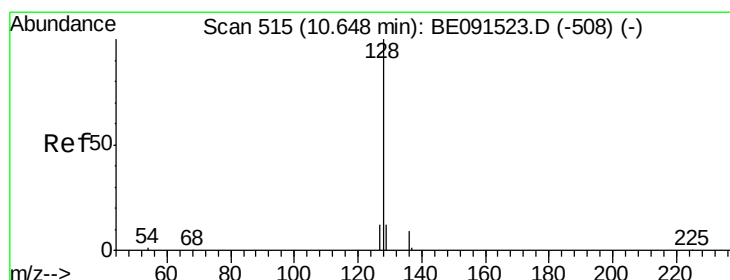
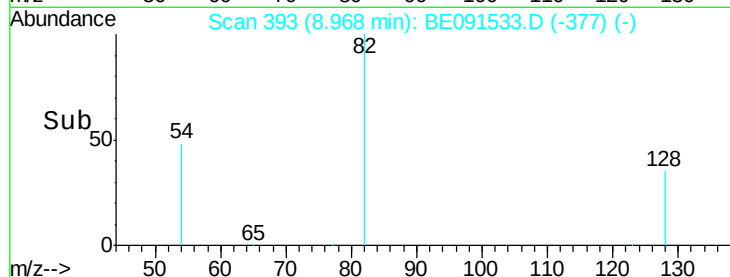
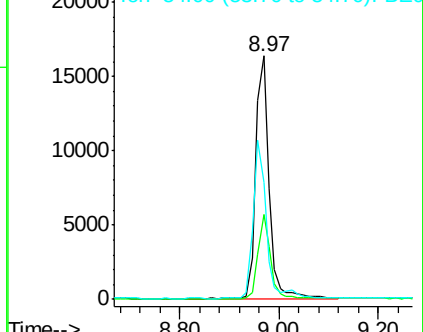
54 48.2 52.4 78.6#



Abundance Ion 82.00 (81.70 to 82.70): BE091533.D (-390) (-)

Ion 128.00 (127.70 to 128.70): BE091533.D (-390) (-)

Ion 54.00 (53.70 to 54.70): BE091533.D (-390) (-)



#8

Naphthalene

Concen: 4.42 ng

RT: 10.63 min Scan# 514

Delta R.T. -0.02 min

Lab File: BE091533.D

Acq: 28 Mar 2016 10:59

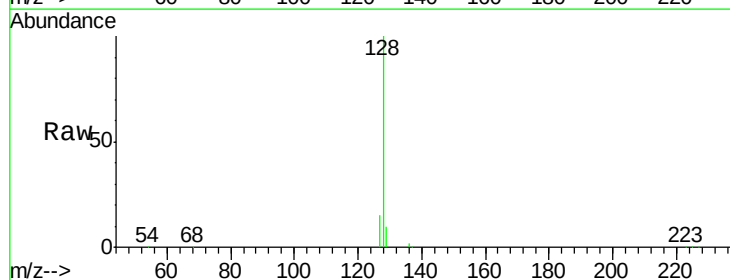
Tgt Ion: 128 Resp: 160682

Ion Ratio Lower Upper

128 100

129 10.2 8.2 12.2

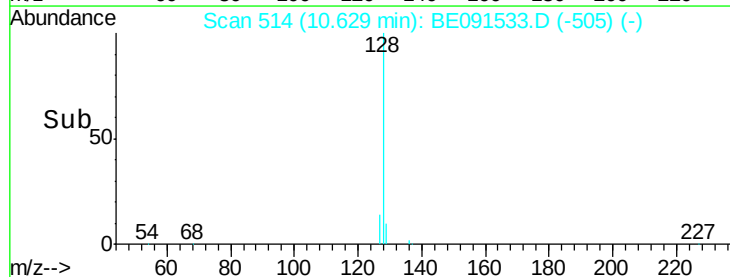
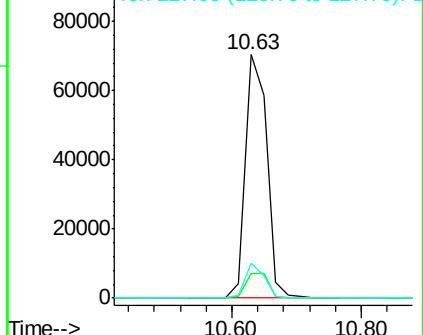
127 14.6 11.8 17.8

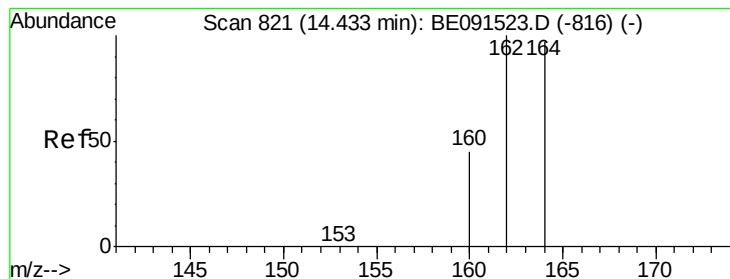


Abundance Ion 128.00 (127.70 to 128.70): BE091533.D (-508) (-)

Ion 129.00 (128.70 to 129.70): BE091533.D (-508) (-)

Ion 127.00 (126.70 to 127.70): BE091533.D (-508) (-)





#10

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.43 min Scan# 821

Delta R.T. -0.01 min

Lab File: BE091533.D

Acq: 28 Mar 2016 10:59

Instrument :

BNA_E

ClientSampleId :

RR-PAH-WP

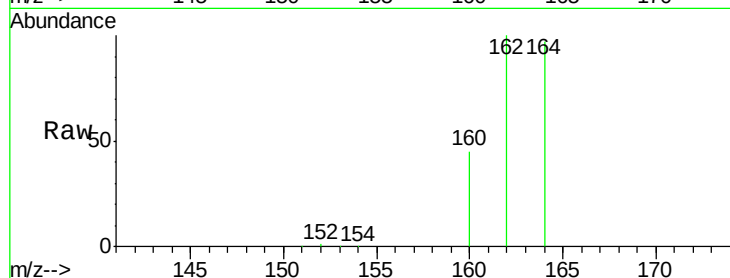
Tgt Ion:164 Resp: 113992

Ion Ratio Lower Upper

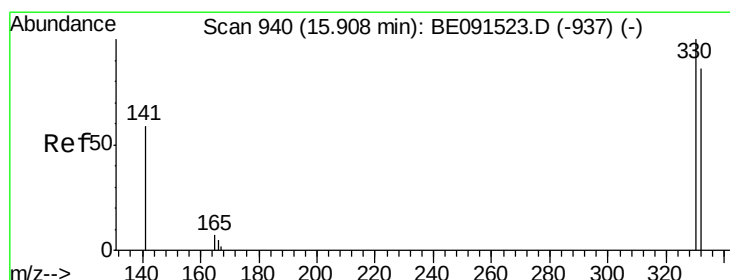
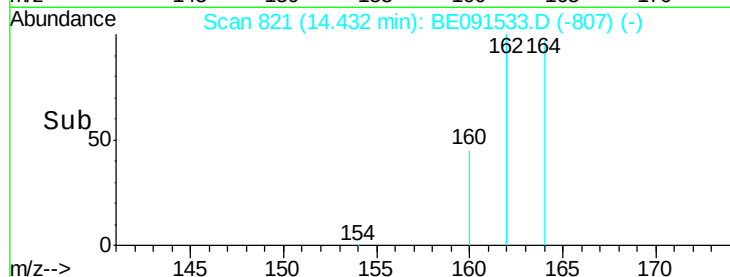
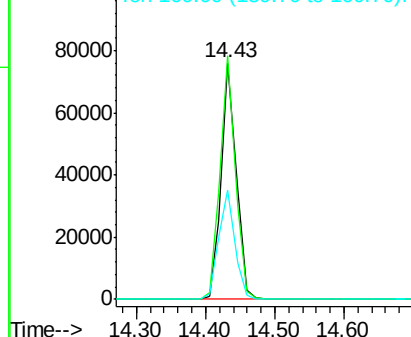
164 100

162 103.1 84.4 126.6

160 46.0 37.7 56.5



Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E



#11

2,4,6-Tribromophenol

Concen: 8.25 ng

RT: 15.92 min Scan# 941

Delta R.T. 0.00 min

Lab File: BE091533.D

Acq: 28 Mar 2016 10:59

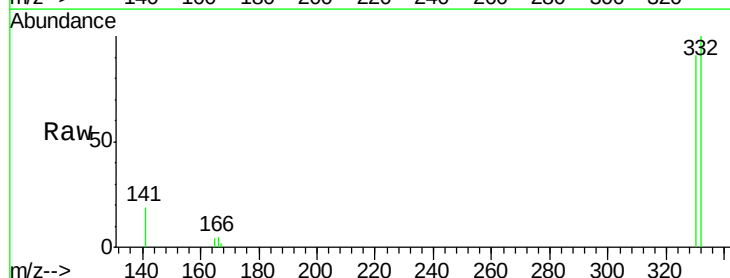
Tgt Ion:330 Resp: 15991

Ion Ratio Lower Upper

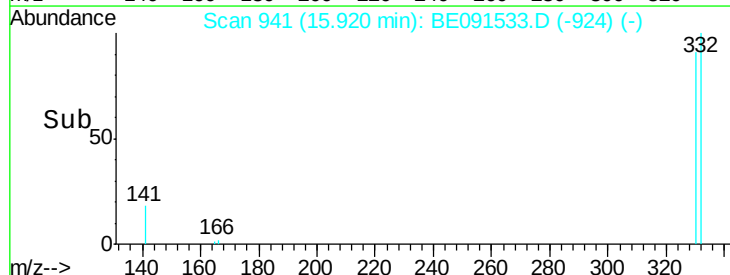
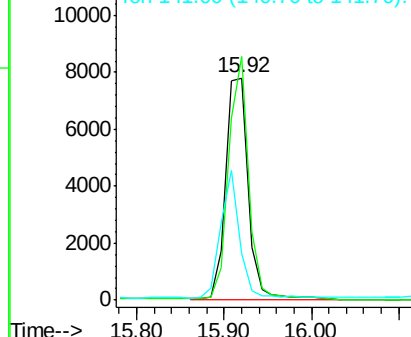
330 100

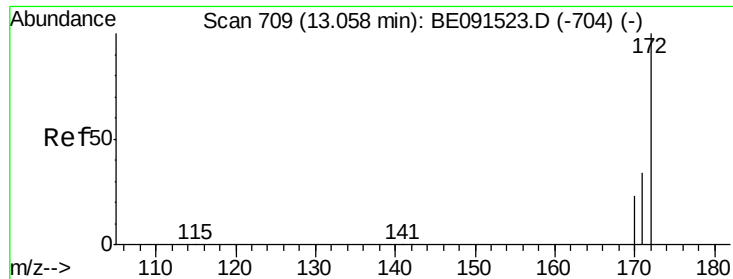
332 97.4 79.2 118.8

141 47.6 28.1 42.1#



Abundance Ion 329.80 (329.50 to 330.50): E
Ion 331.80 (331.50 to 332.50): E
Ion 141.00 (140.70 to 141.70): E

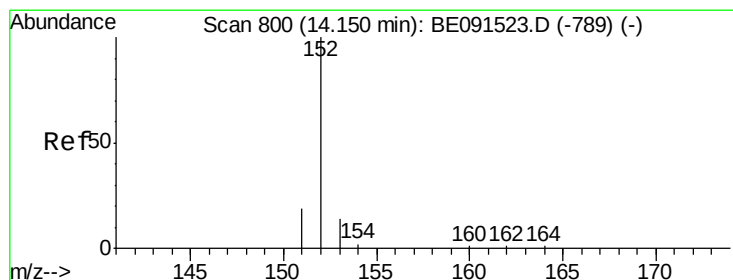
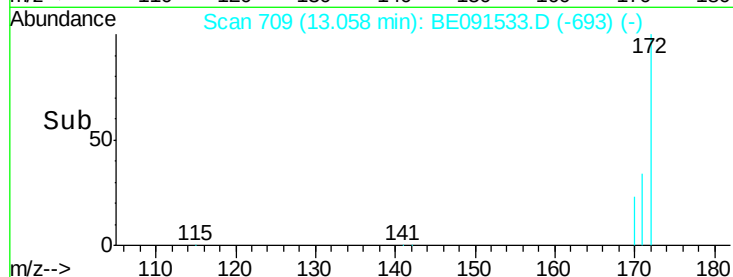
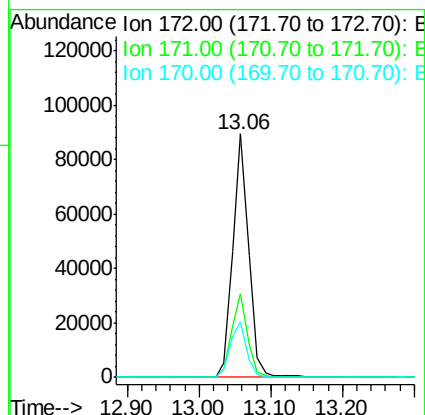
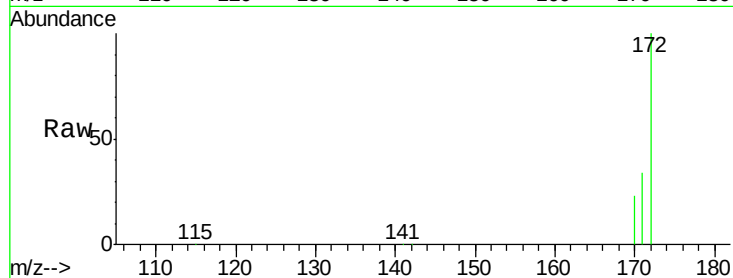




#12
2-Fluorobiphenyl
Concen: 4.29 ng
RT: 13.06 min Scan# 709
Delta R.T. -0.01 min
Lab File: BE091533.D
Acq: 28 Mar 2016 10:59

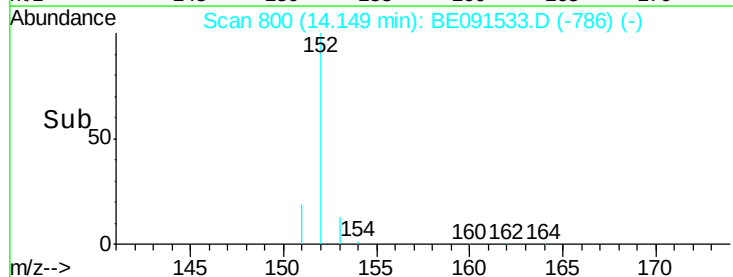
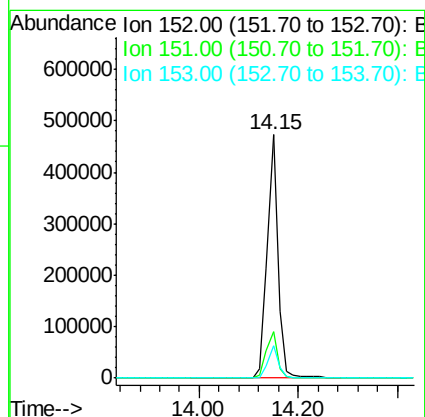
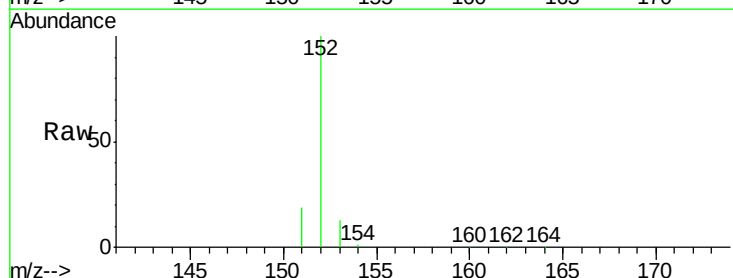
Instrument :
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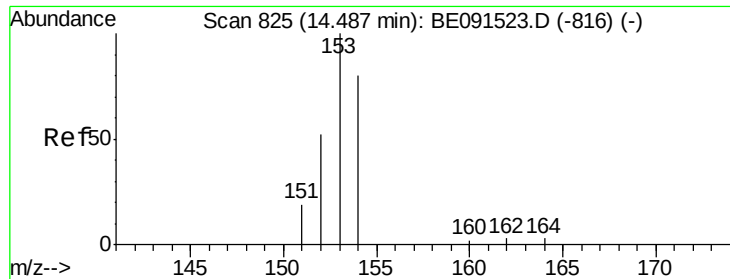
Tgt Ion:172 Resp: 137630
Ion Ratio Lower Upper
172 100
171 34.2 29.8 44.8
170 22.7 21.4 32.2



#13
Acenaphthylene
Concen: 18.79 ng
RT: 14.15 min Scan# 800
Delta R.T. 0.00 min
Lab File: BE091533.D
Acq: 28 Mar 2016 10:59

Tgt Ion:152 Resp: 750527
Ion Ratio Lower Upper
152 100
151 20.2 16.3 24.5
153 12.4 11.1 16.7

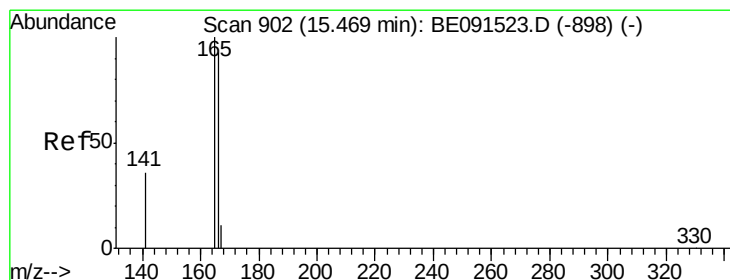
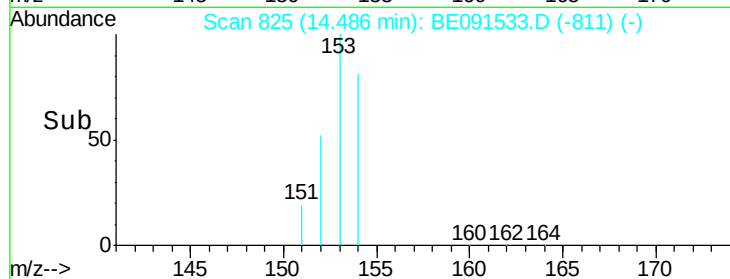
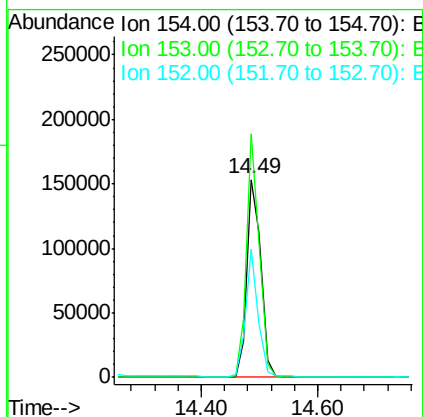
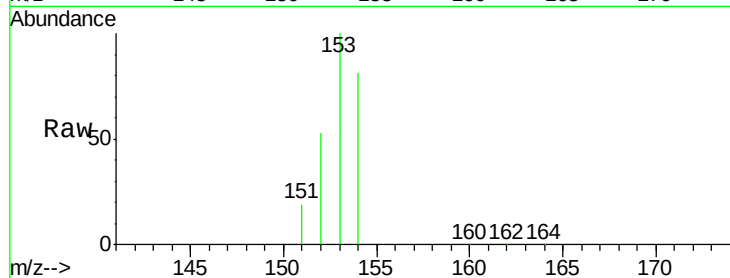




#14
Acenaphthene
Concen: 8.90 ng
RT: 14.49 min Scan# 825
Delta R.T. -0.01 min
Lab File: BE091533.D
Acq: 28 Mar 2016 10:59

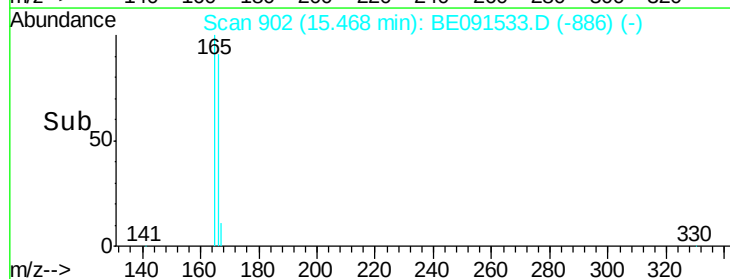
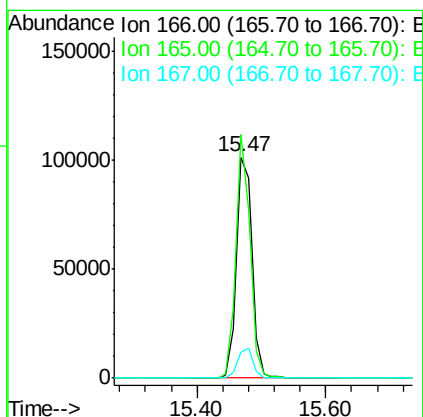
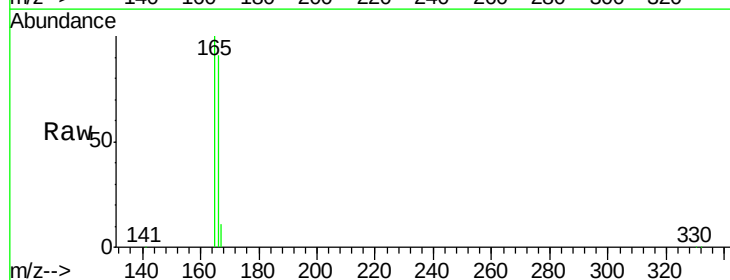
Instrument :
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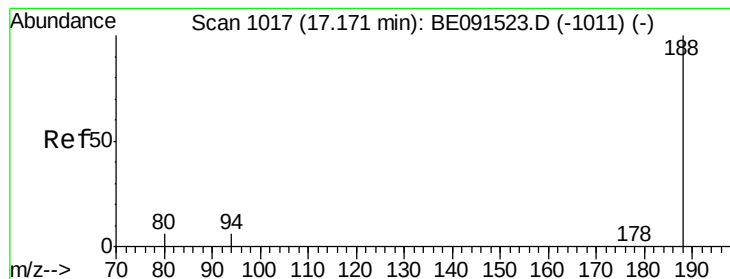
Tgt Ion:154 Resp: 251175
Ion Ratio Lower Upper
154 100
153 113.5 87.3 130.9
152 57.6 42.9 64.3



#15
Fluorene
Concen: 4.83 ng
RT: 15.47 min Scan# 902
Delta R.T. -0.01 min
Lab File: BE091533.D
Acq: 28 Mar 2016 10:59

Tgt Ion:166 Resp: 166272
Ion Ratio Lower Upper
166 100
165 100.0 79.2 118.8
167 13.4 10.8 16.2





#16

Phenanthrene-d10

Concen: 5.00 ng

RT: 17.17 min Scan# 1018

Delta R.T. 0.00 min

Lab File: BE091533.D

Acq: 28 Mar 2016 10:59

Instrument :

BNA_E

ClientSampleId :

RR-PAH-WP

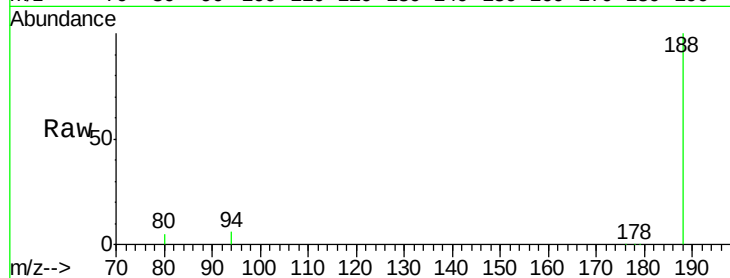
Tgt Ion:188 Resp: 282691

Ion Ratio Lower Upper

188 100

94 5.6 5.4 8.2

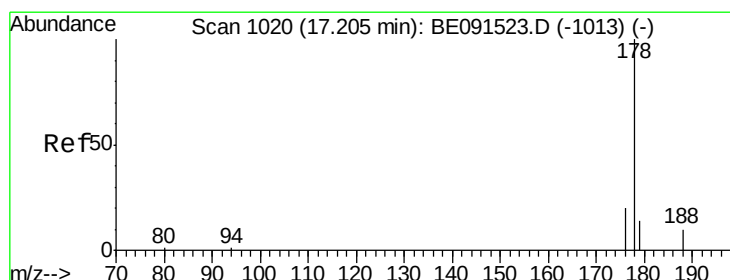
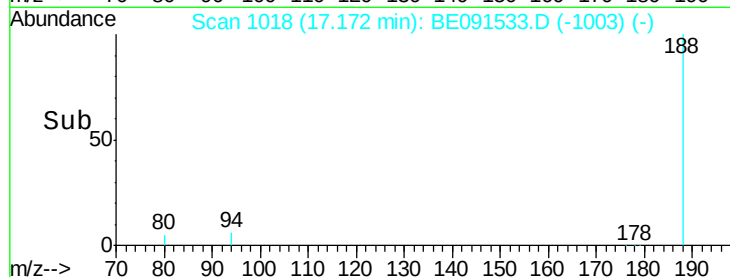
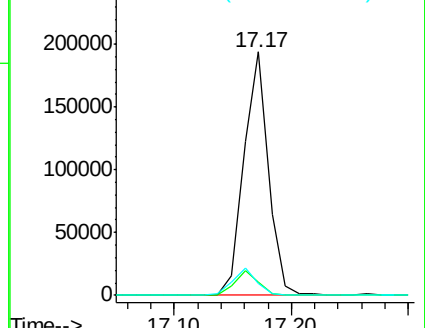
80 4.9 5.0 7.4#



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



#19

Phenanthrene

Concen: 1.86 ng

RT: 17.21 min Scan# 1021

Delta R.T. 0.00 min

Lab File: BE091533.D

Acq: 28 Mar 2016 10:59

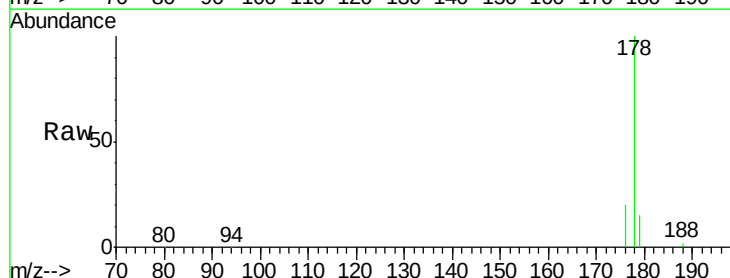
Tgt Ion:178 Resp: 120369

Ion Ratio Lower Upper

178 100

176 19.4 15.5 23.3

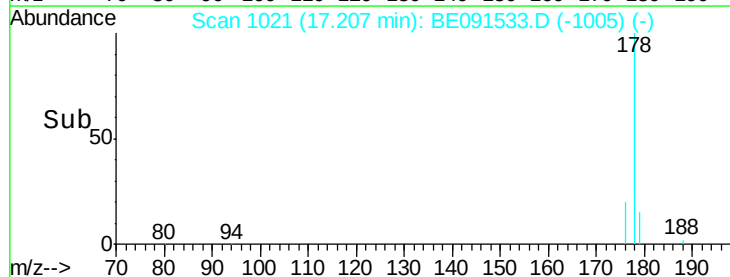
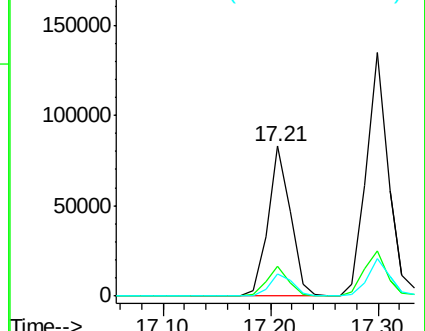
179 15.4 13.1 19.7

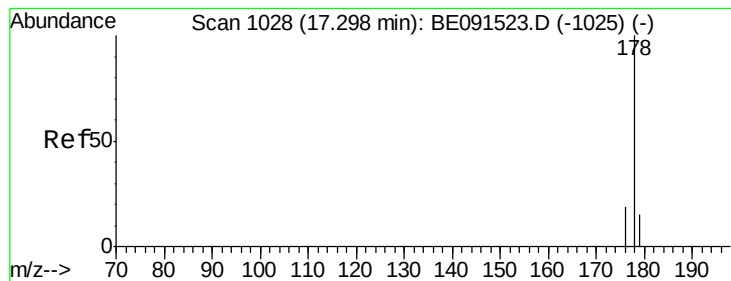


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#20

Anthracene

Concen: 3.65 ng

RT: 17.30 min Scan# 1029

Delta R.T. 0.00 min

Lab File: BE091533.D

Acq: 28 Mar 2016 10:59

Instrument :

BNA_E

ClientSampleId :

RR-PAH-WP

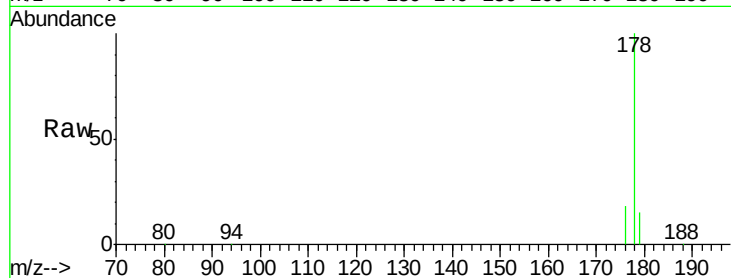
Tgt Ion:178 Resp: 195739

Ion Ratio Lower Upper

178 100

176 19.0 14.9 22.3

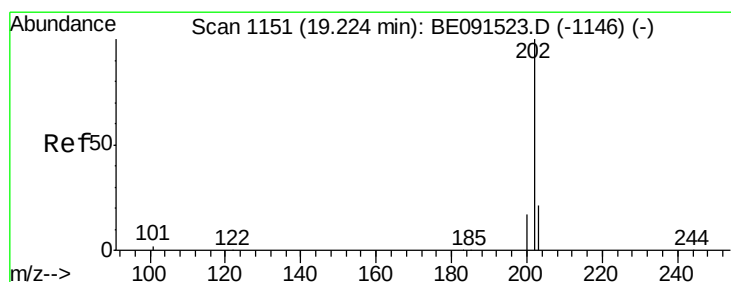
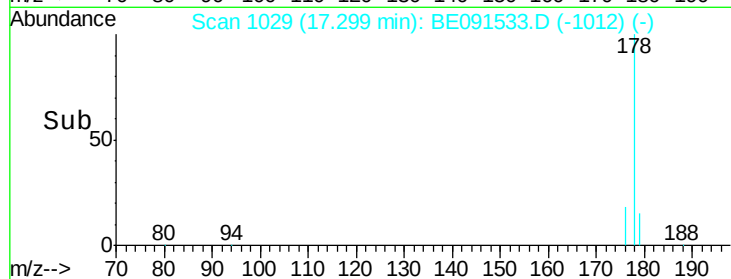
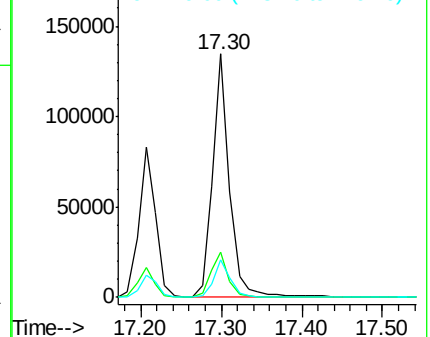
179 15.4 12.2 18.4



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: 0.80 ng

RT: 19.22 min Scan# 1152

Delta R.T. -0.00 min

Lab File: BE091533.D

Acq: 28 Mar 2016 10:59

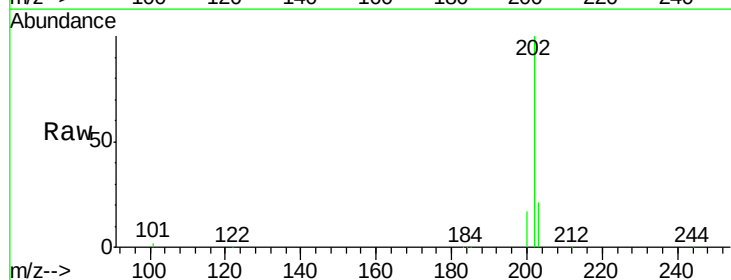
Tgt Ion:202 Resp: 48287

Ion Ratio Lower Upper

202 100

101 11.7 8.3 12.5

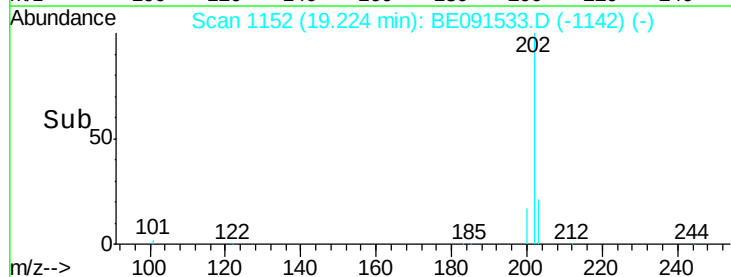
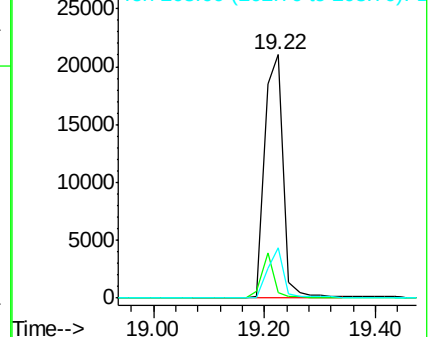
203 17.6 13.9 20.9

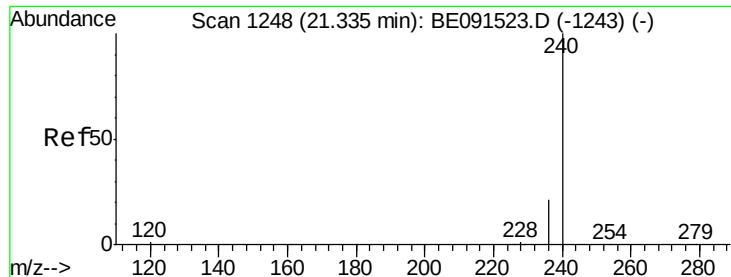


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#22

Chrysene-d12

Concen: 5.00 ng

RT: 21.33 min Scan# 1249

Delta R.T. -0.00 min

Lab File: BE091533.D

Acq: 28 Mar 2016 10:59

Instrument :

BNA_E

ClientSampleId :

RR-PAH-WP

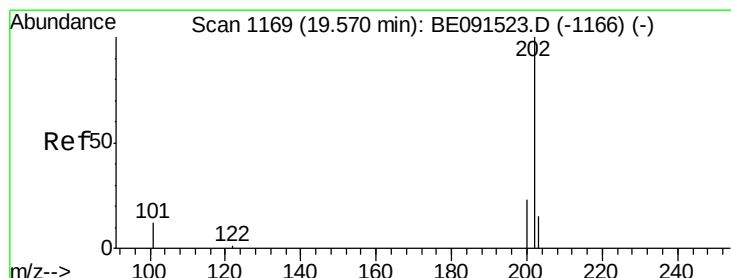
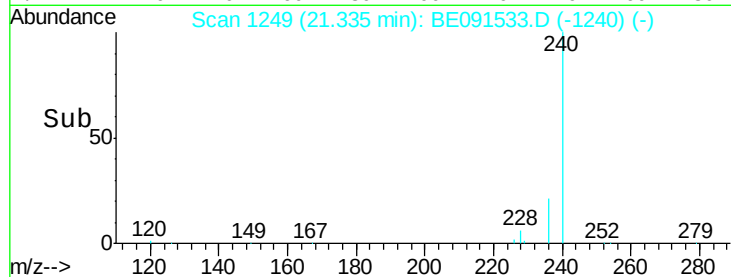
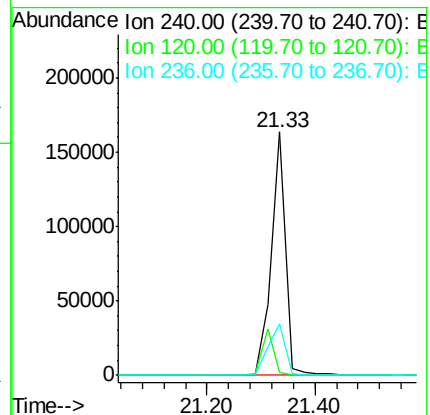
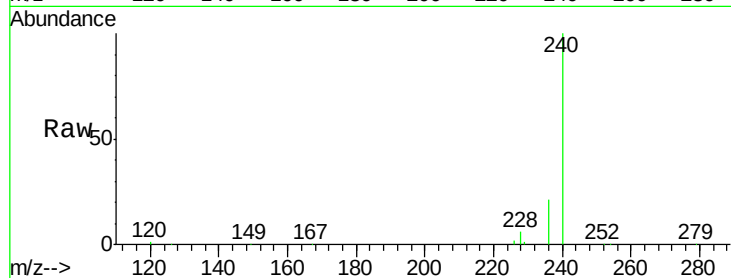
Tgt Ion:240 Resp: 303907

Ion Ratio Lower Upper

240 100

120 1.0 4.0 6.0#

236 21.4 23.0 34.4#



#23

Pyrene

Concen: 3.17 ng

RT: 19.57 min Scan# 1170

Delta R.T. -0.00 min

Lab File: BE091533.D

Acq: 28 Mar 2016 10:59

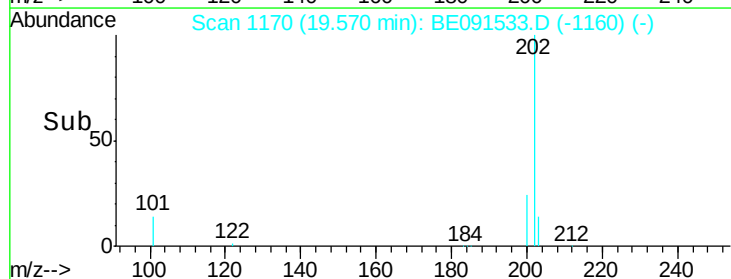
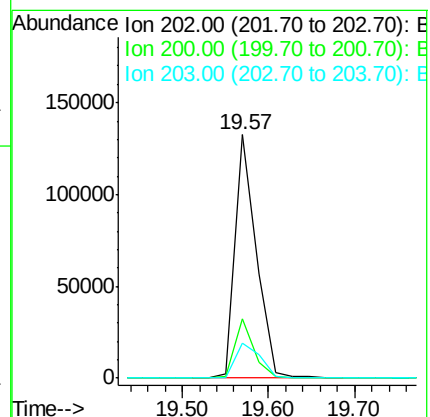
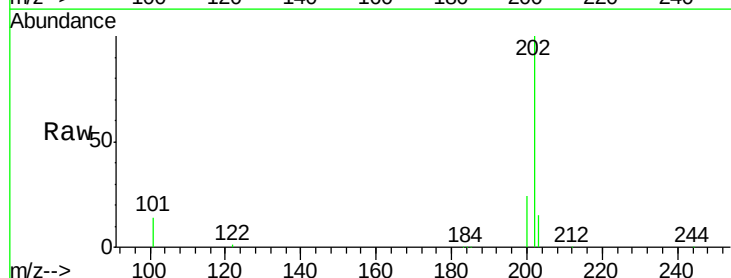
Tgt Ion:202 Resp: 227279

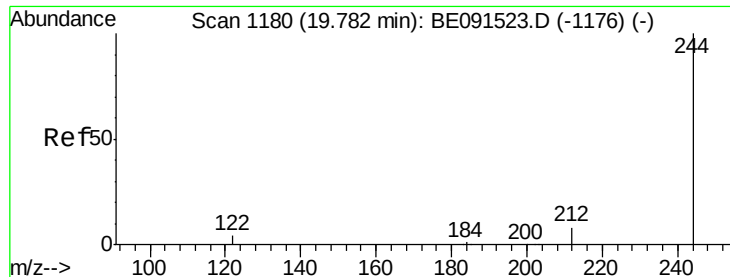
Ion Ratio Lower Upper

202 100

200 21.9 16.4 24.6

203 17.1 14.6 21.8





#24

Terphenyl-d14

Concen: 4.57 ng

RT: 19.78 min Scan# 1181

Delta R.T. -0.00 min

Lab File: BE091533.D

Acq: 28 Mar 2016 10:59

Instrument :

BNA_E

ClientSampleId :

RR-PAH-WP

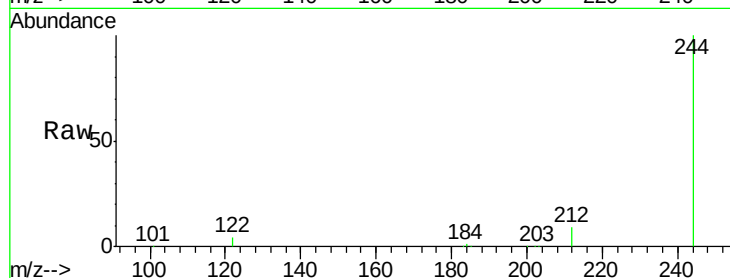
Tgt Ion:244 Resp: 228201

Ion Ratio Lower Upper

244 100

212 8.8 5.8 8.8#

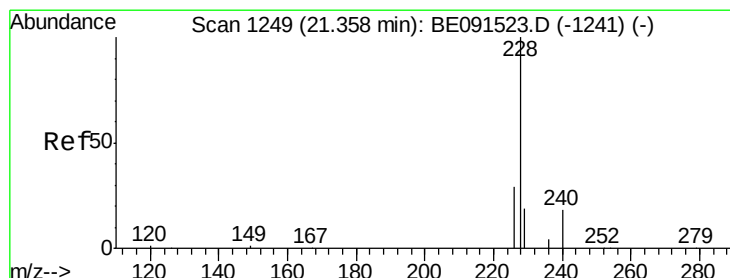
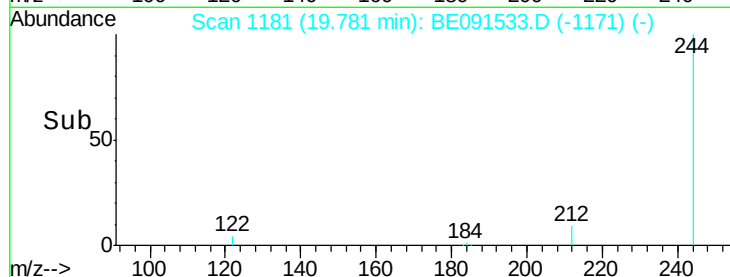
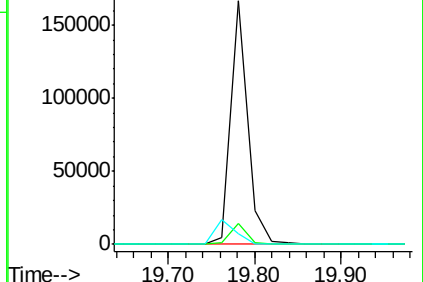
122 4.1 1.8 2.8#



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#25

Benzo(a)anthracene

Concen: 4.21 ng m

RT: 21.31 min Scan# 1248

Delta R.T. -0.00 min

Lab File: BE091533.D

Acq: 28 Mar 2016 10:59

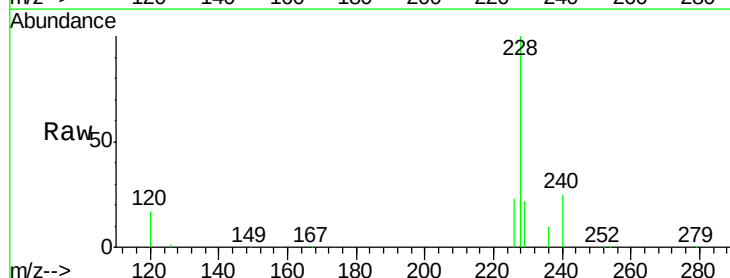
Tgt Ion:228 Resp: 295671

Ion Ratio Lower Upper

228 100

226 23.2 24.0 36.0#

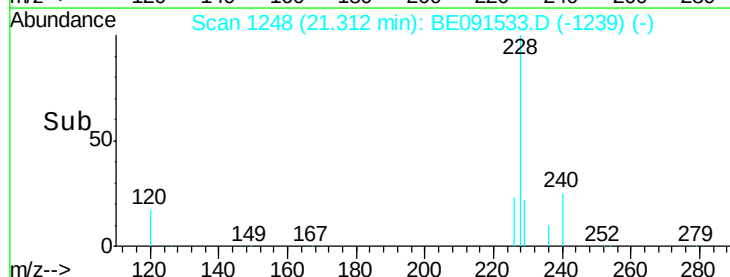
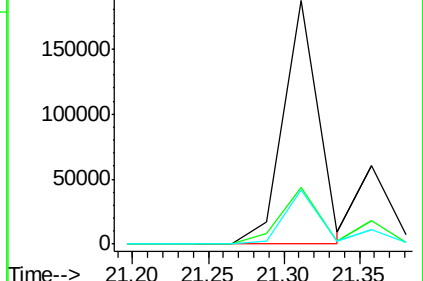
229 22.0 13.8 20.6#

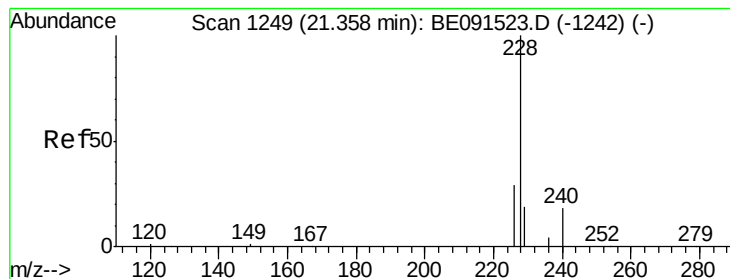


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#26

Chrysene

Concen: 1.06 ng m

RT: 21.36 min Scan# 1250

Delta R.T. -0.00 min

Lab File: BE091533.D

Acq: 28 Mar 2016 10:59

Instrument :

BNA_E

ClientSampleId :

RR-PAH-WP

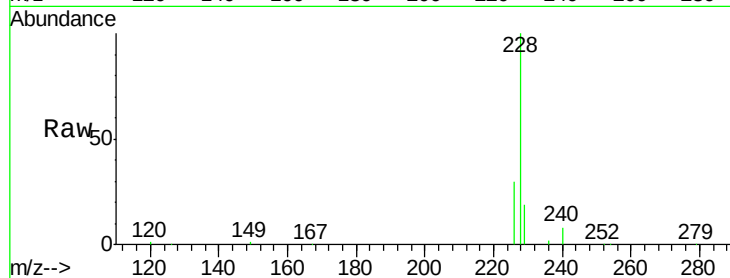
Tgt Ion: 228 Resp: 98060

Ion Ratio Lower Upper

228 100

226 30.1 18.9 28.3#

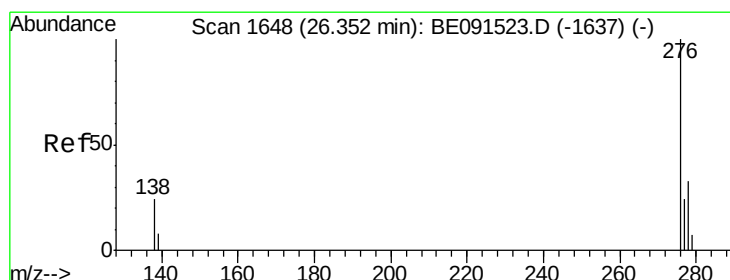
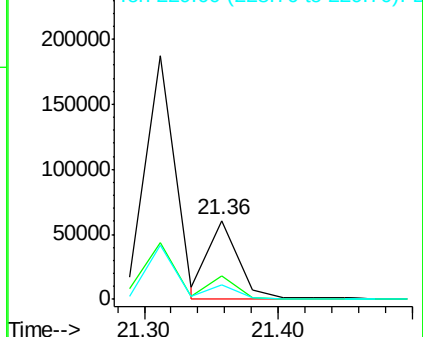
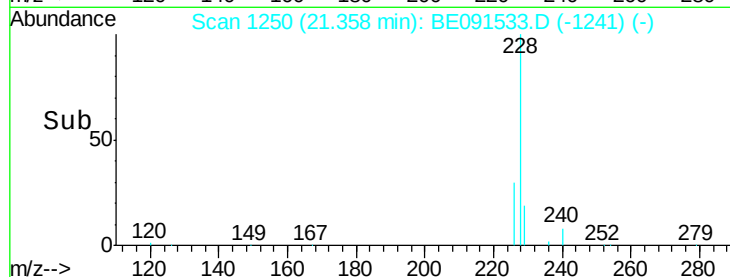
229 18.6 19.1 28.7#



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: 1.25 ng

RT: 26.36 min Scan# 1650

Delta R.T. -0.01 min

Lab File: BE091533.D

Acq: 28 Mar 2016 10:59

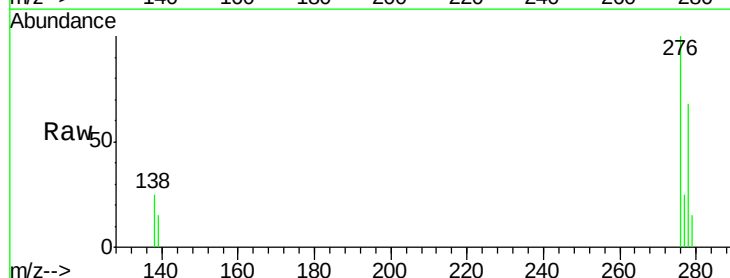
Tgt Ion: 276 Resp: 89814

Ion Ratio Lower Upper

276 100

138 26.8 20.2 30.4

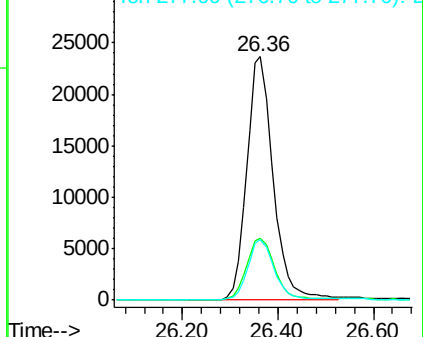
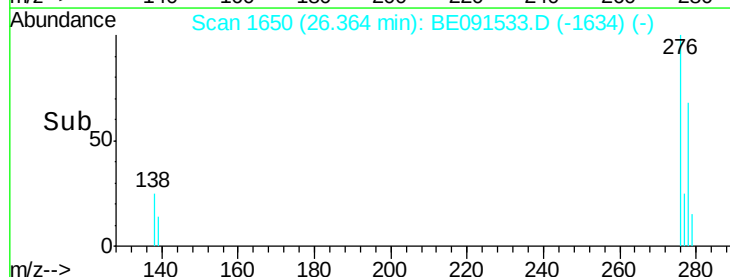
277 24.8 19.8 29.8

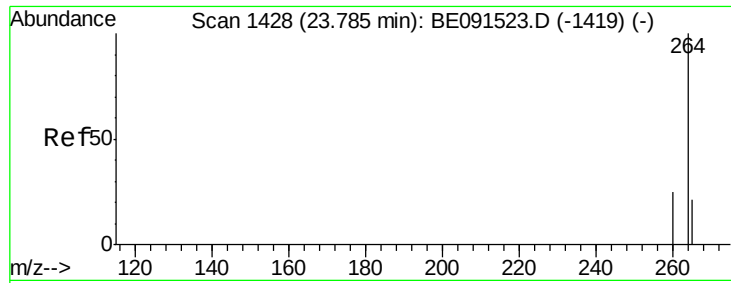


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

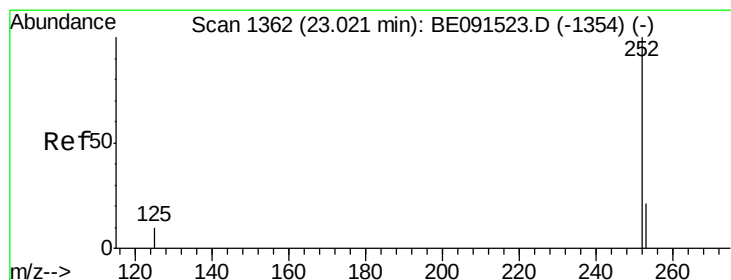
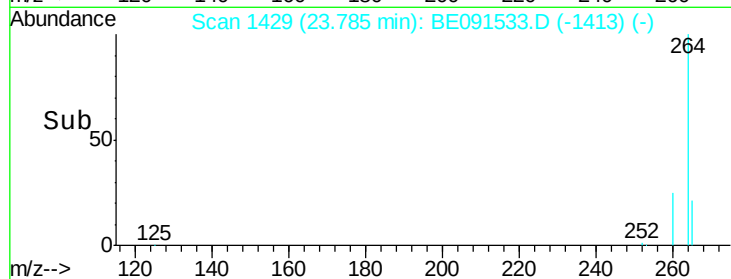
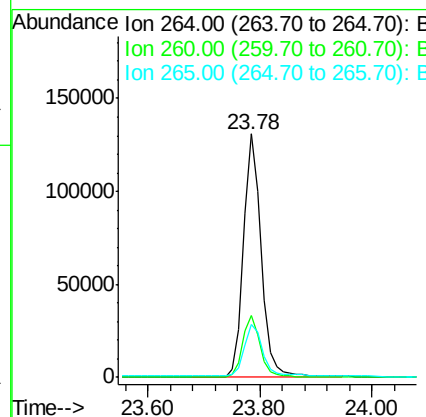
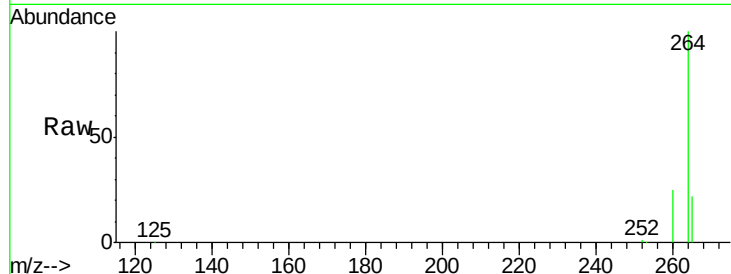




#28
 Perylene-d12
 Concen: 5.00 ng
 RT: 23.78 min Scan# 1429
 Delta R.T. -0.01 min
 Lab File: BE091533.D
 Acq: 28 Mar 2016 10:59

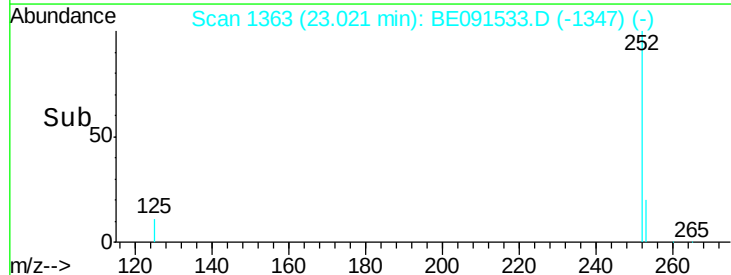
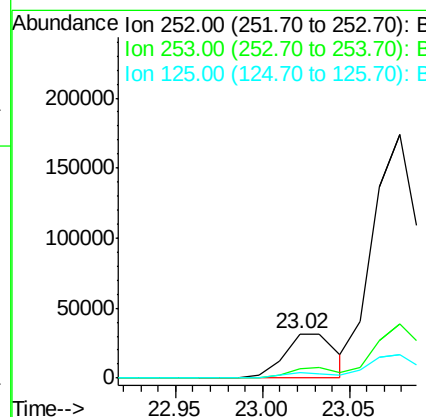
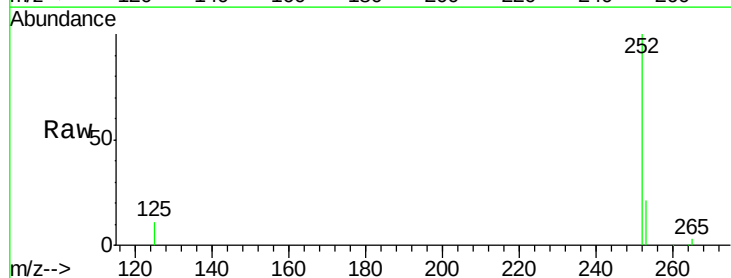
Instrument :
 BNA_E
 ClientSampleId :
 RR-PAH-WP

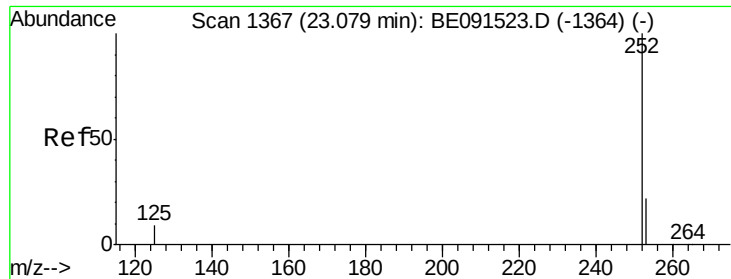
Tgt Ion: 264 Resp: 293602
 Ion Ratio Lower Upper
 264 100
 260 25.4 20.1 30.1
 265 21.9 18.3 27.5



#29
 Benzo(b)fluoranthene
 Concen: 1.00 ng m
 RT: 23.02 min Scan# 1363
 Delta R.T. -0.01 min
 Lab File: BE091533.D
 Acq: 28 Mar 2016 10:59

Tgt Ion: 252 Resp: 65444
 Ion Ratio Lower Upper
 252 100
 253 20.7 18.7 28.1
 125 11.4 9.8 14.6





#30

Benzo(k)fluoranthene

Concen: 5.27 ng m

RT: 23.08 min Scan# 1368

Delta R.T. 0.00 min

Lab File: BE091533.D

Acq: 28 Mar 2016 10:59

Instrument :

BNA_E

ClientSampleId :

RR-PAH-WP

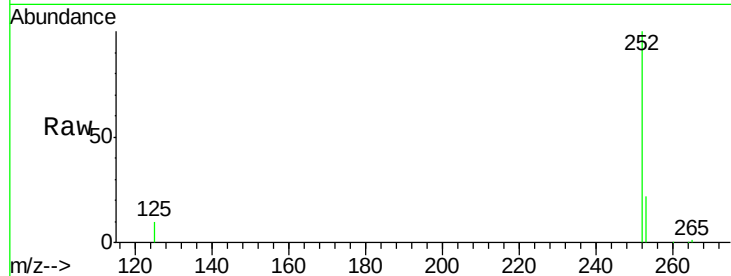
Tgt Ion:252 Resp: 342749

Ion Ratio Lower Upper

252 100

253 22.5 20.2 30.4

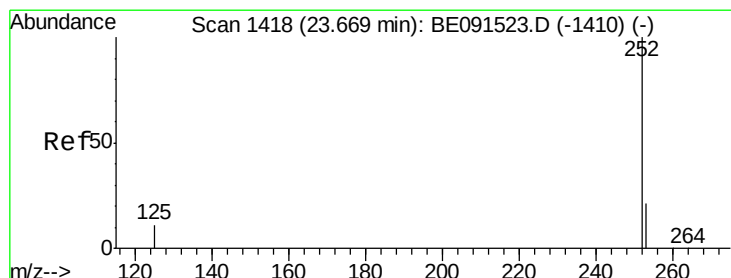
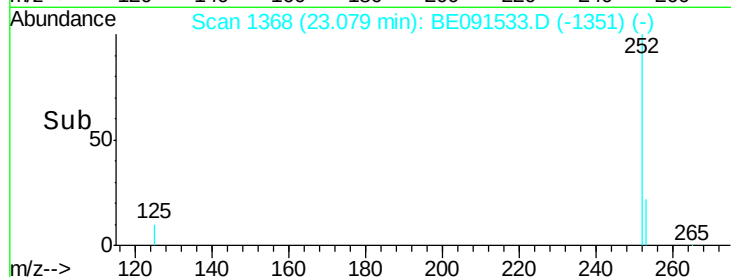
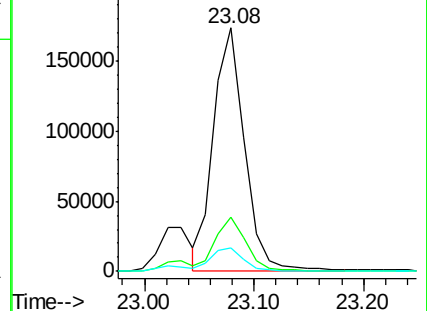
125 9.9 9.4 14.2



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



#31

Benzo(a)pyrene

Concen: 0.60 ng

RT: 23.67 min Scan# 1419

Delta R.T. -0.01 min

Lab File: BE091533.D

Acq: 28 Mar 2016 10:59

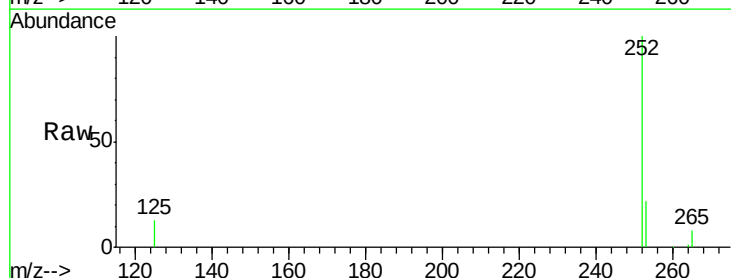
Tgt Ion:252 Resp: 26635

Ion Ratio Lower Upper

252 100

253 22.4 19.4 29.0

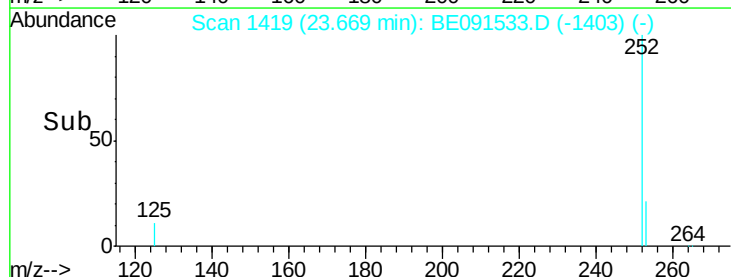
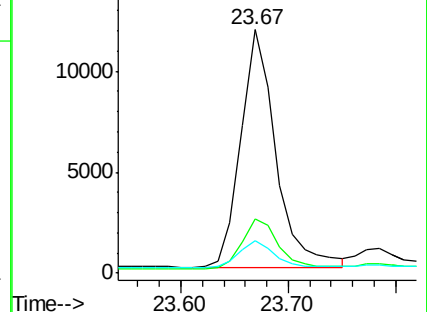
125 13.2 11.4 17.2

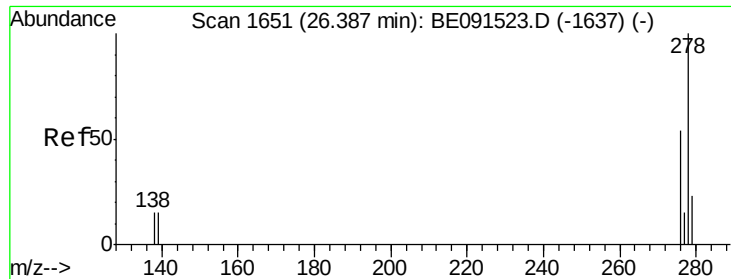


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#32

Dibenzo(a,h)anthracene

Concen: 1.51 ng

RT: 26.39 min Scan# 1652

Delta R.T. -0.01 min

Lab File: BE091533.D

Acq: 28 Mar 2016 10:59

Instrument :

BNA_E

ClientSampleId :

RR-PAH-WP

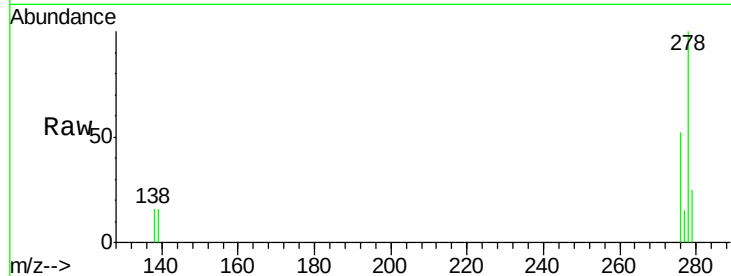
Tgt Ion: 278 Resp: 87020

Ion Ratio Lower Upper

278 100

139 16.0 14.2 21.4

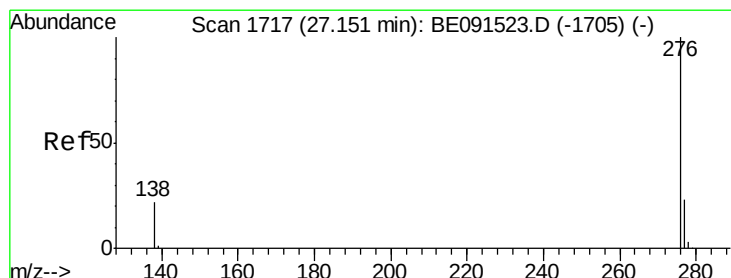
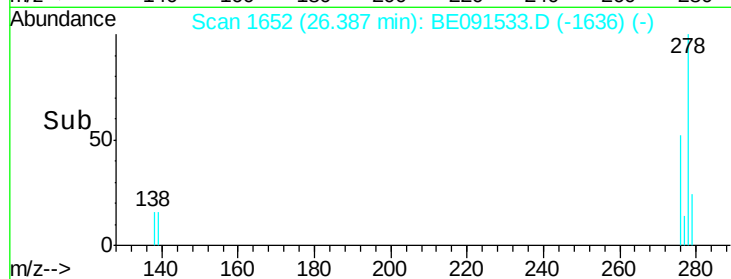
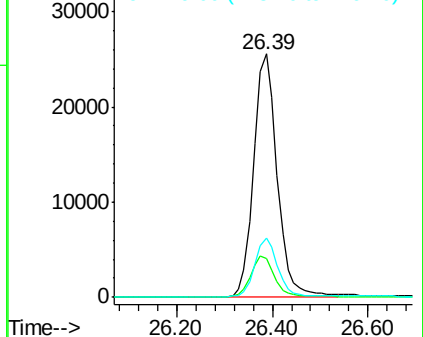
279 24.5 19.6 29.4



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: 1.81 ng

RT: 27.15 min Scan# 1718

Delta R.T. -0.01 min

Lab File: BE091533.D

Acq: 28 Mar 2016 10:59

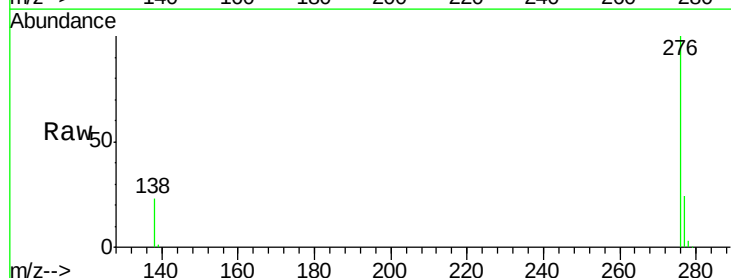
Tgt Ion: 276 Resp: 109189

Ion Ratio Lower Upper

276 100

277 23.6 19.4 29.2

138 22.5 18.2 27.4



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

