

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF052616\
 Data File : BF087437.D
 Acq On : 27 May 2016 9:38
 Operator : UM/SJ
 Sample : H3218-06DL 5X
 Misc :
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 E-4(12.5-13)DL

Quant Time: May 27 11:56:34 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF052316.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 25 16:26:52 2016
 Response via : Initial Calibration

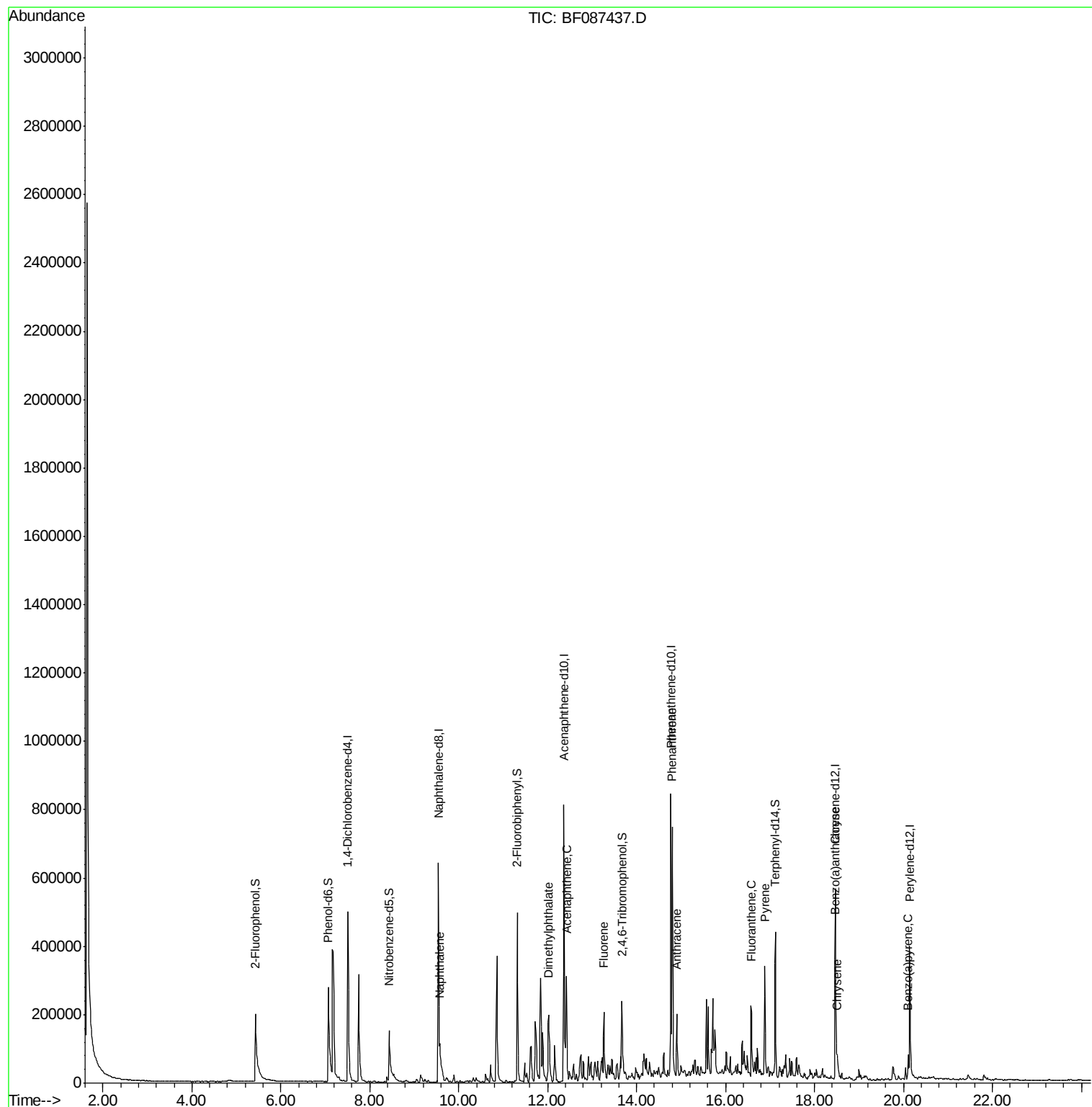
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.51	152	106945	20.00	ng	-0.01
21) Naphthalene-d8	9.54	136	443115	20.00	ng	-0.01
38) Acenaphthene-d10	12.37	164	203231	20.00	ng	-0.02
63) Phenanthrene-d10	14.77	188	367150	20.00	ng	-0.01
75) Chrysene-d12	18.47	240	258862	20.00	ng	-0.01
86) Perylene-d12	20.14	264	220594	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.43	112	161585	26.55	ng	0.01
7) Phenol-d6	7.06	99	236165	28.72	ng	-0.01
23) Nitrobenzene-d5	8.43	82	138067	15.70	ng	-0.01
41) 2,4,6-Tribromophenol	13.67	330	44443	22.76	ng	-0.01
44) 2-Fluorobiphenyl	11.31	172	219564	15.23	ng	-0.02
78) Terphenyl-d14	17.12	244	178392	14.65	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	9.58	128	87027	3.92	ng	99
49) Dimethylphthalate	12.01	163	88964	5.46	ng	99
51) Acenaphthene	12.42	154	119329	9.37	ng	97
57) Fluorene	13.27	166	78348	5.24	ng	97
70) Phenanthrene	14.80	178	471416	23.18	ng	99
71) Anthracene	14.90	178	121420	5.91	ng	98
74) Fluoranthene	16.57	202	157269	7.71	ng	96
77) Pyrene	16.88	202	221639	11.89	ng	98
80) Benzo(a)anthracene	18.46	228	56746	3.85	ng	98
82) Chrysene	18.51	228	53541	3.66	ng	96
89) Benzo(a)pyrene	20.10	252	34332	2.82	ng	99

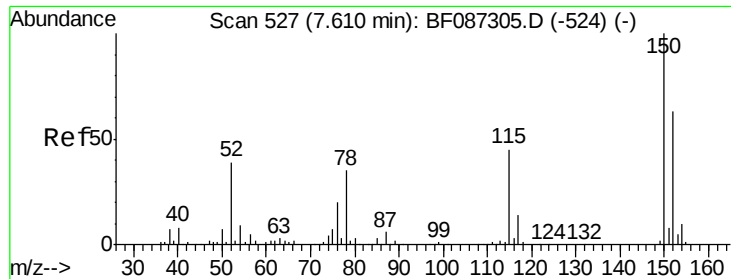
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 7.51 min Scan# 518

Delta R.T. -0.01 min

Lab File: BF087437.D

Acq: 27 May 2016 9:38

Instrument :

BNA_F

ClientSampleId :

E-4(12.5-13)DL

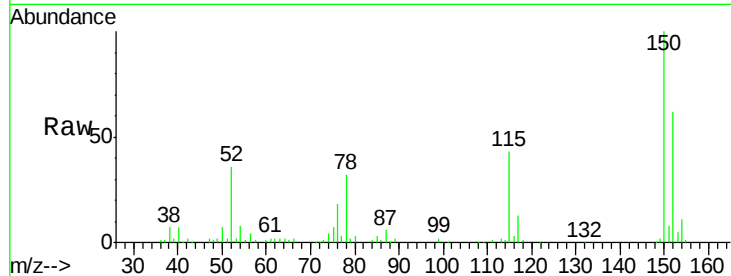
Tgt Ion:152 Resp: 106945

Ion Ratio Lower Upper

152 100

150 161.8 125.8 188.6

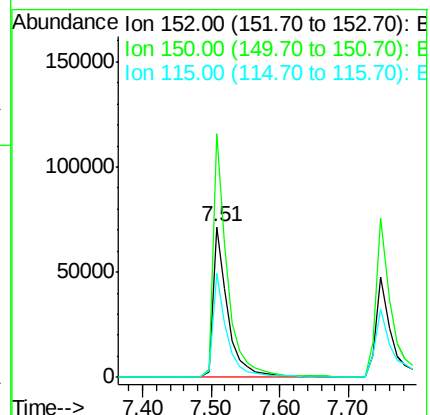
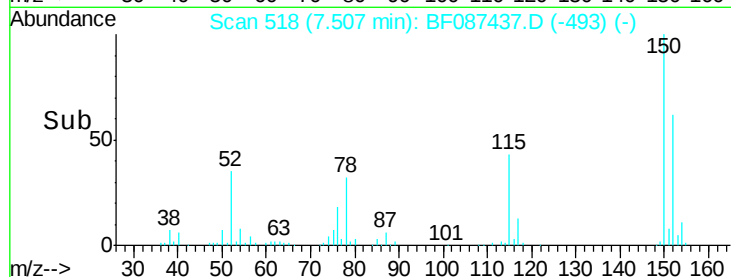
115 68.9 51.5 77.3



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



#5

2-Fluorophenol

Concen: 26.55 ng

RT: 5.43 min Scan# 336

Delta R.T. 0.01 min

Lab File: BF087437.D

Acq: 27 May 2016 9:38

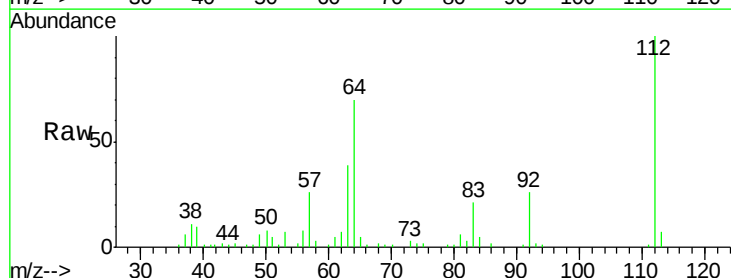
Tgt Ion:112 Resp: 161585

Ion Ratio Lower Upper

112 100

64 70.0 52.1 78.1

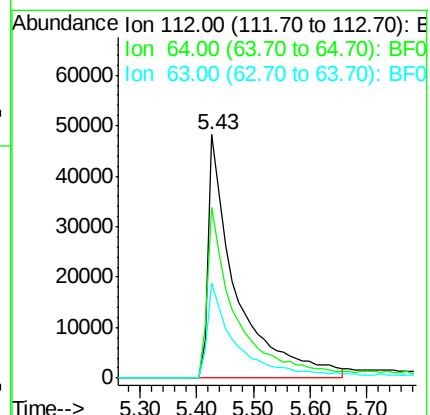
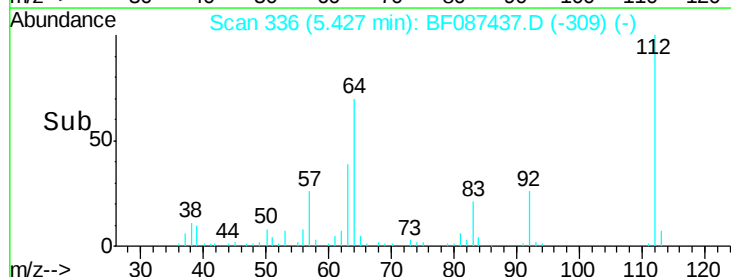
63 39.0 25.7 38.5#



Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 28.72 ng

RT: 7.06 min Scan# 479

Delta R.T. -0.01 min

Lab File: BF087437.D

Acq: 27 May 2016 9:38

Instrument :

BNA_F

ClientSampleId :

E-4(12.5-13)DL

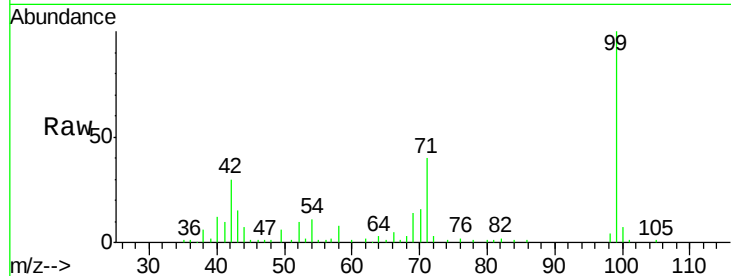
Tgt Ion: 99 Resp: 236165

Ion Ratio Lower Upper

99 100

42 29.8 13.6 20.4#

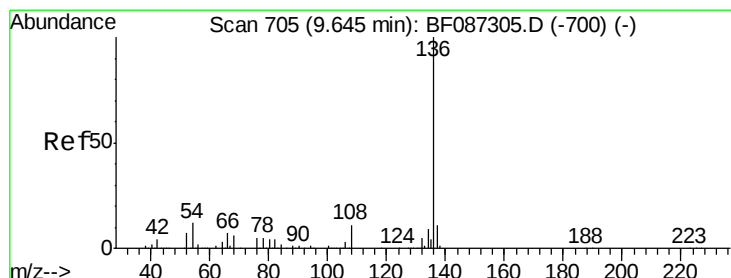
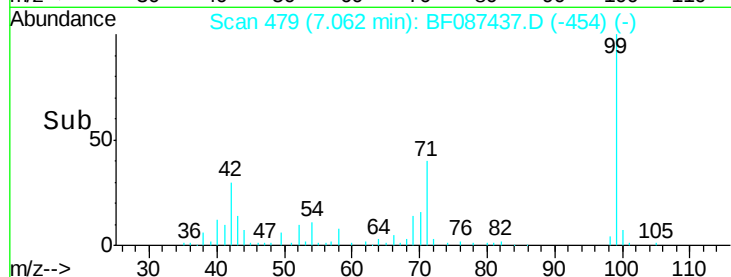
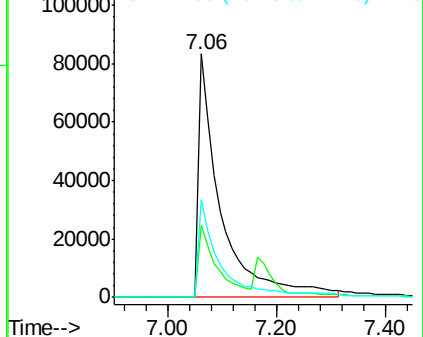
71 40.1 24.6 36.8#



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 9.54 min Scan# 696

Delta R.T. -0.01 min

Lab File: BF087437.D

Acq: 27 May 2016 9:38

Tgt Ion: 136 Resp: 443115

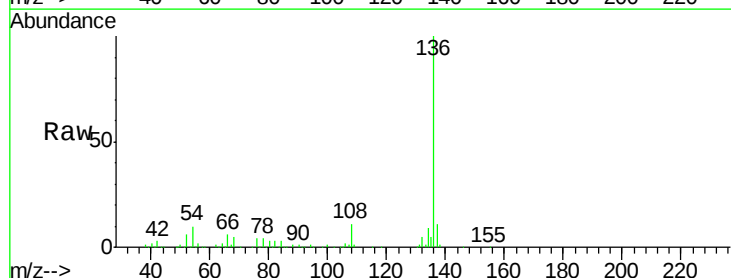
Ion Ratio Lower Upper

136 100

137 10.6 8.8 13.2

54 10.1 5.0 7.4#

68 5.4 4.4 6.6

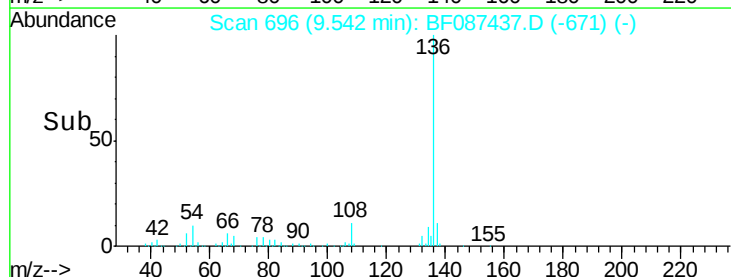
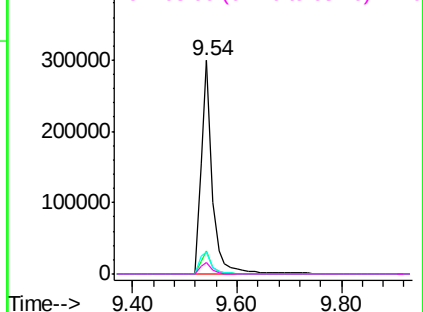


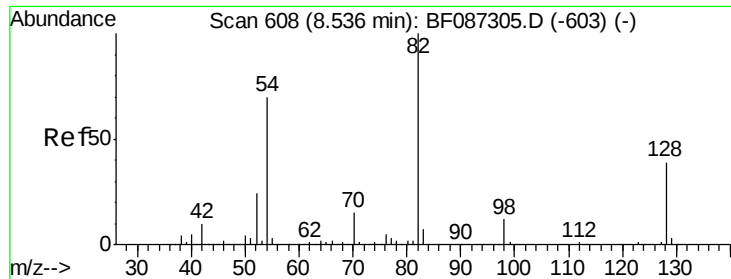
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0

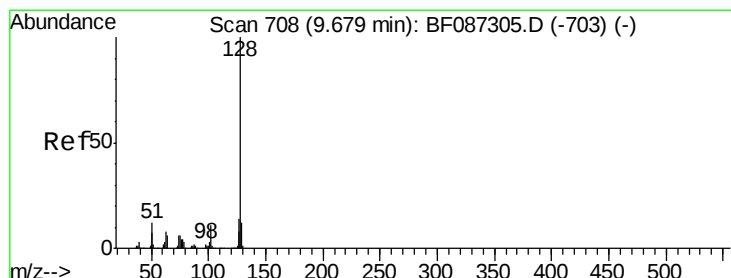
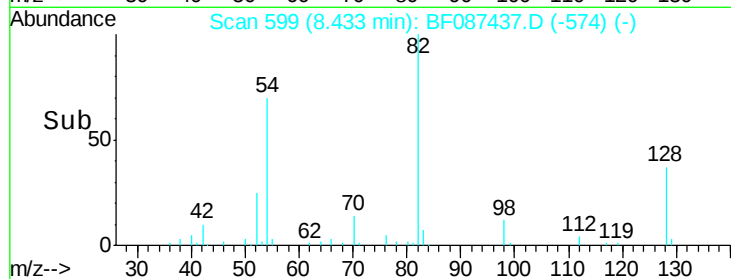
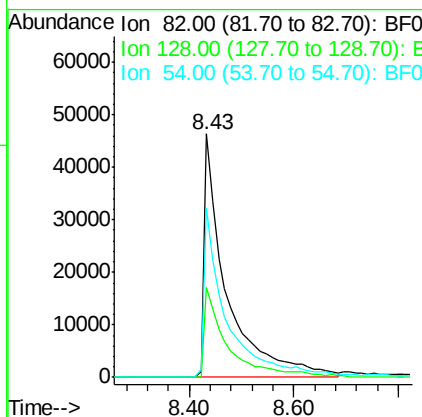
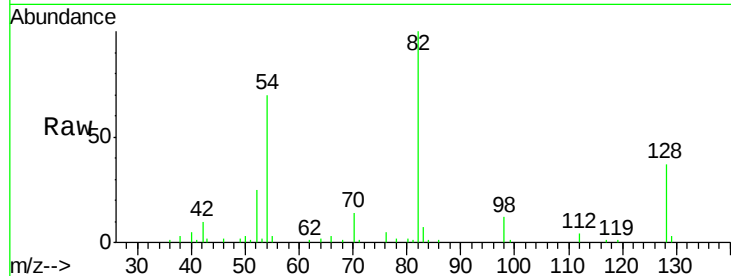




#23
 Nitrobenzene-d5
 Concen: 15.70 ng
 RT: 8.43 min Scan# 599
 Delta R.T. -0.01 min
 Lab File: BF087437.D
 Acq: 27 May 2016 9:38

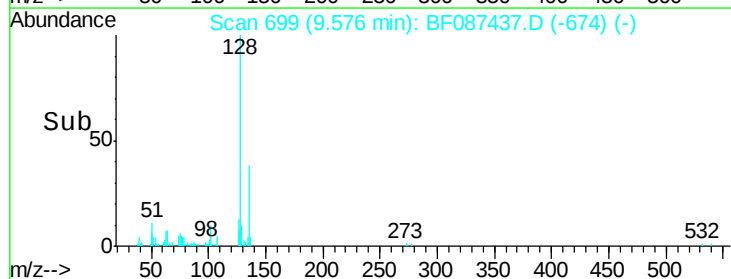
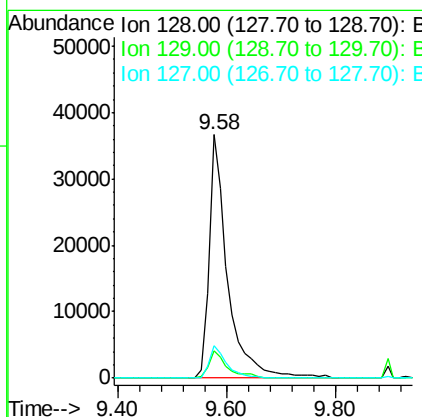
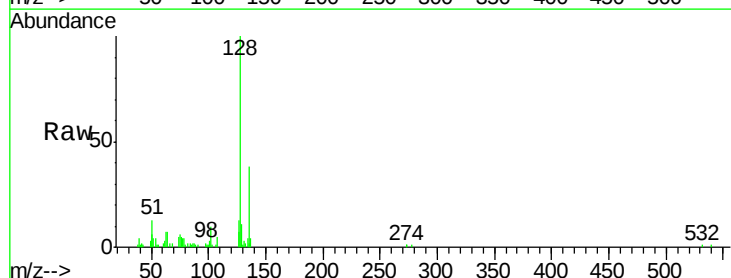
Instrument :
 BNA_F
 ClientSampleId :
 E-4(12.5-13)DL

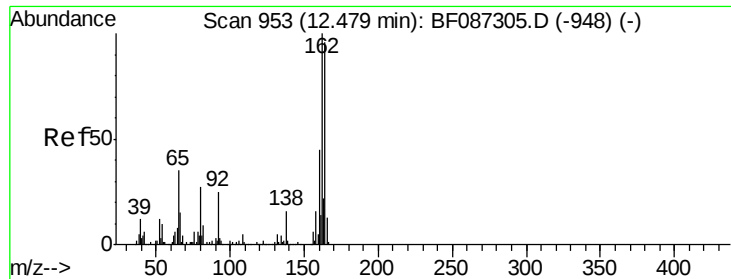
Tgt Ion: 82 Resp: 138067
 Ion Ratio Lower Upper
 82 100
 128 36.8 40.6 61.0#
 54 69.6 38.1 57.1#



#31
 Naphthalene
 Concen: 3.92 ng
 RT: 9.58 min Scan# 699
 Delta R.T. -0.01 min
 Lab File: BF087437.D
 Acq: 27 May 2016 9:38

Tgt Ion: 128 Resp: 87027
 Ion Ratio Lower Upper
 128 100
 129 11.1 8.6 13.0
 127 13.2 10.8 16.2





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 12.37 min Scan# 943

Delta R.T. -0.02 min

Lab File: BF087437.D

Acq: 27 May 2016 9:38

Instrument :

BNA_F

ClientSampleId :

E-4(12.5-13)DL

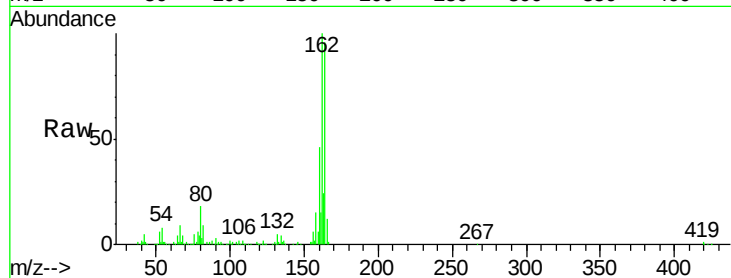
Tgt Ion:164 Resp: 203231

Ion Ratio Lower Upper

164 100

162 104.4 82.8 124.2

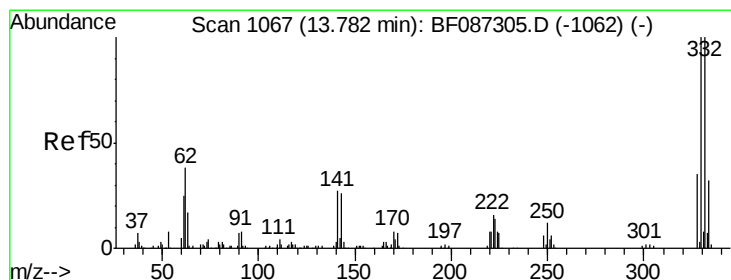
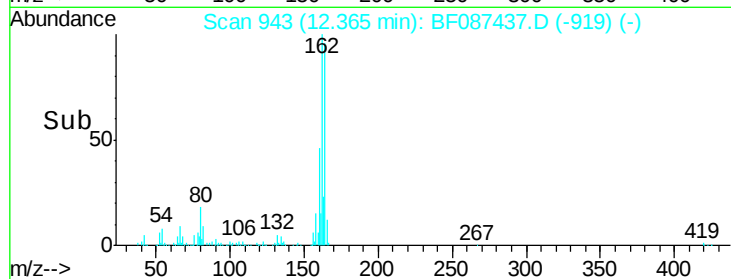
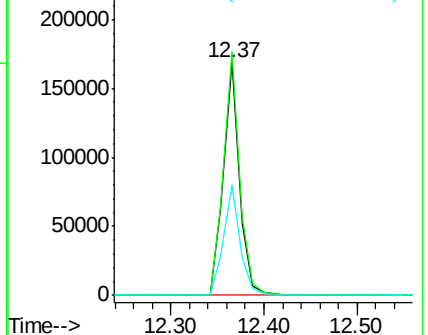
160 47.5 36.9 55.3



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



#41

2,4,6-Tribromophenol

Concen: 22.76 ng

RT: 13.67 min Scan# 1057

Delta R.T. -0.01 min

Lab File: BF087437.D

Acq: 27 May 2016 9:38

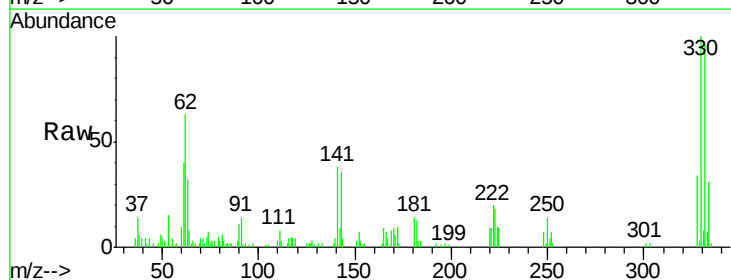
Tgt Ion:330 Resp: 44443

Ion Ratio Lower Upper

330 100

332 97.3 79.0 118.4

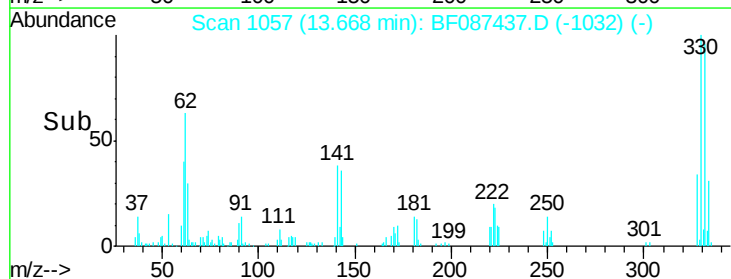
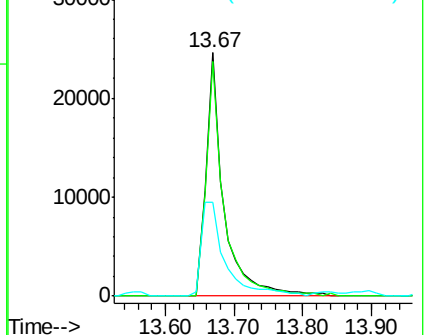
141 51.3 31.2 46.8#

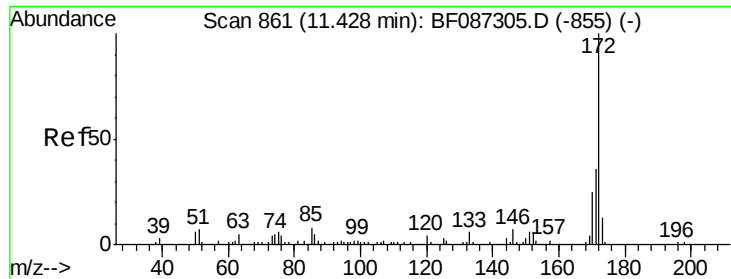


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

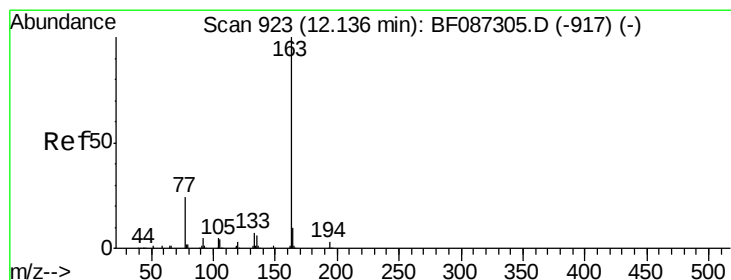
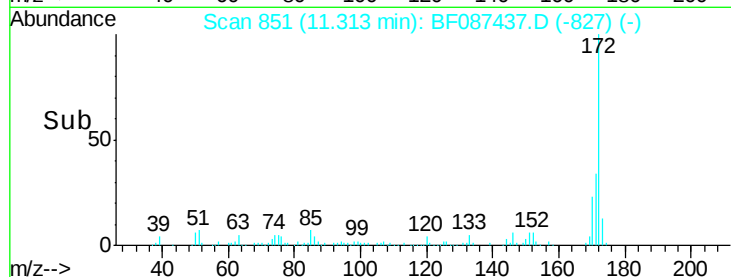
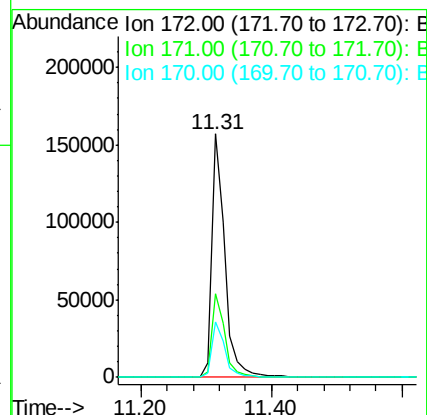
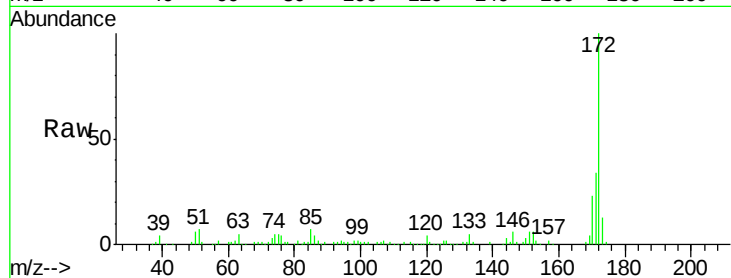




#44
2-Fluorobiphenyl
Concen: 15.23 ng
RT: 11.31 min Scan# 851
Delta R.T. -0.02 min
Lab File: BF087437.D
Acq: 27 May 2016 9:38

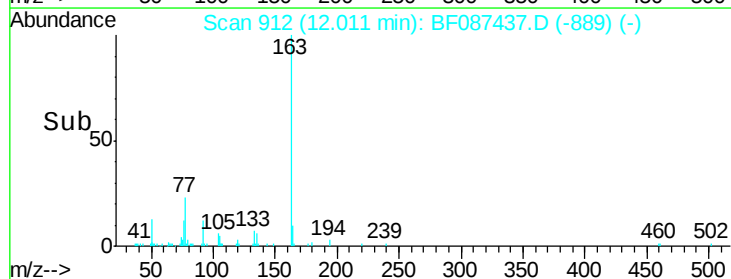
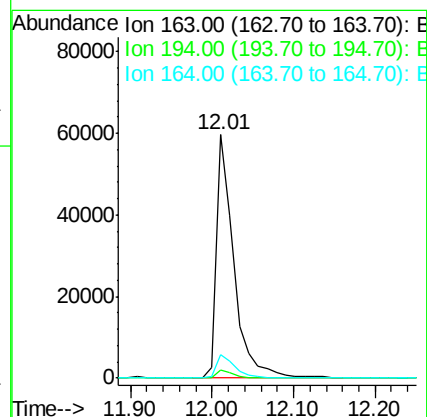
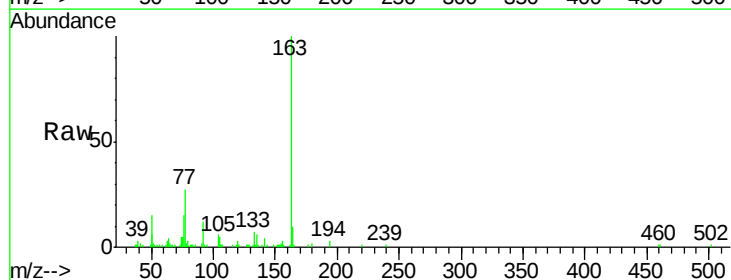
Instrument :
BNA_F
ClientSampleId :
E-4(12.5-13)DL

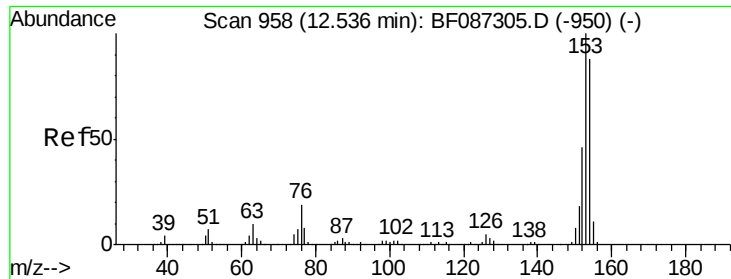
Tgt Ion:172 Resp: 219564
Ion Ratio Lower Upper
172 100
171 34.4 29.0 43.6
170 22.7 19.8 29.8



#49
Dimethylphthalate
Concen: 5.46 ng
RT: 12.01 min Scan# 912
Delta R.T. -0.03 min
Lab File: BF087437.D
Acq: 27 May 2016 9:38

Tgt Ion:163 Resp: 88964
Ion Ratio Lower Upper
163 100
194 3.3 2.6 4.0
164 9.8 8.2 12.4





#51

Acenaphthene

Concen: 9.37 ng

RT: 12.42 min Scan# 948

Delta R.T. -0.01 min

Lab File: BF087437.D

Acq: 27 May 2016 9:38

Instrument :

BNA_F

ClientSampleId :

E-4(12.5-13)DL

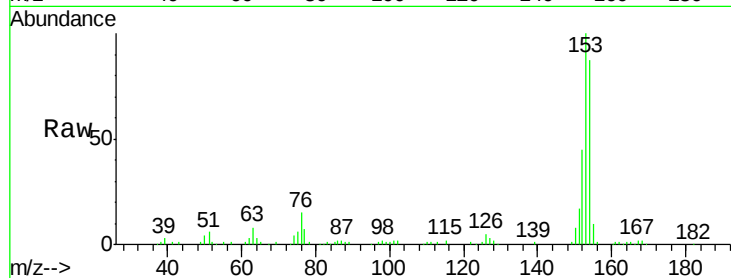
Tgt Ion:154 Resp: 119329

Ion Ratio Lower Upper

154 100

153 114.8 89.8 134.6

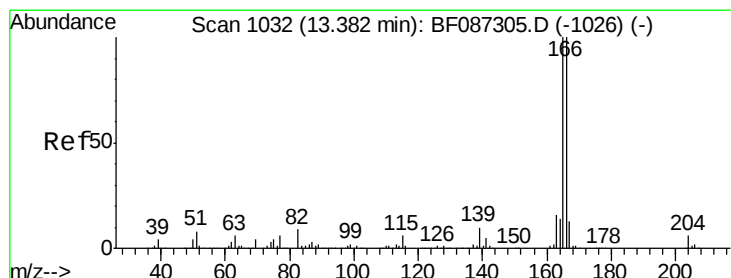
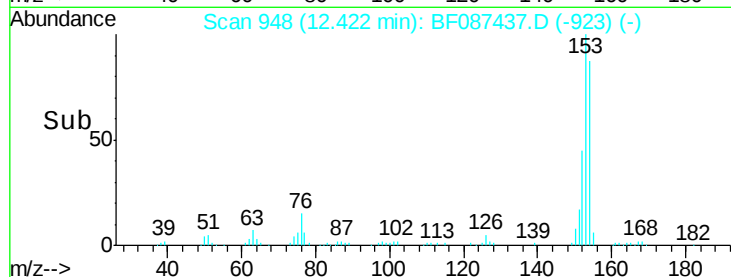
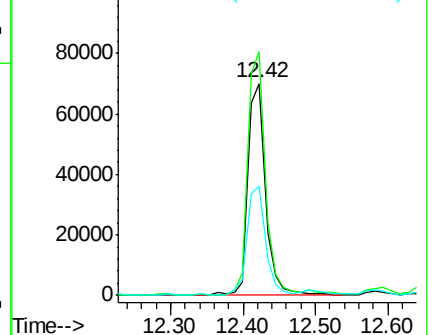
152 51.8 43.4 65.0



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



#57

Fluorene

Concen: 5.24 ng

RT: 13.27 min Scan# 1022

Delta R.T. -0.01 min

Lab File: BF087437.D

Acq: 27 May 2016 9:38

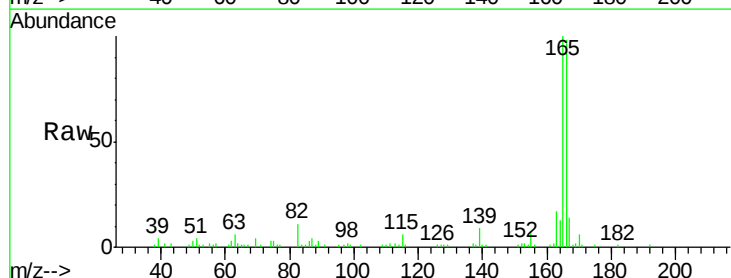
Tgt Ion:166 Resp: 78348

Ion Ratio Lower Upper

166 100

165 101.6 79.0 118.6

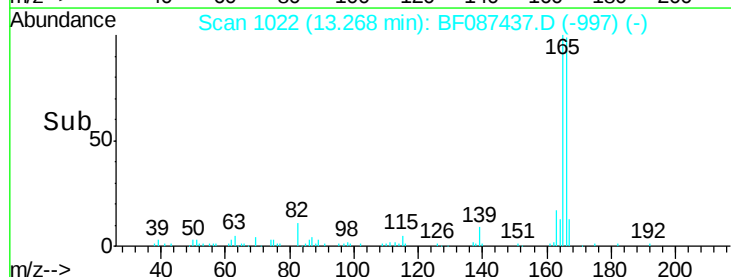
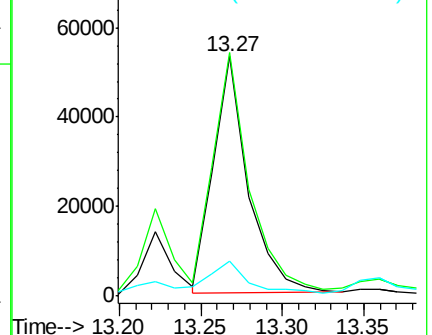
167 14.4 10.6 15.8

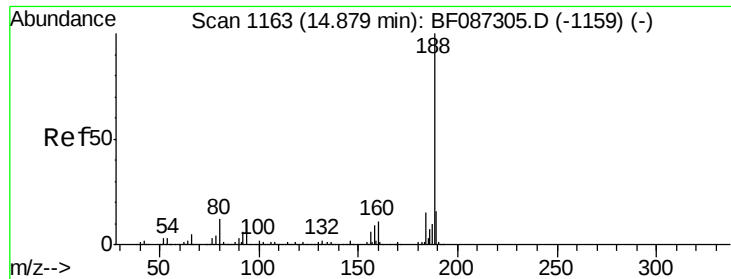


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

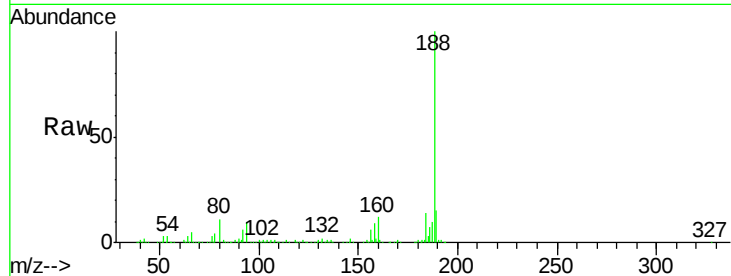




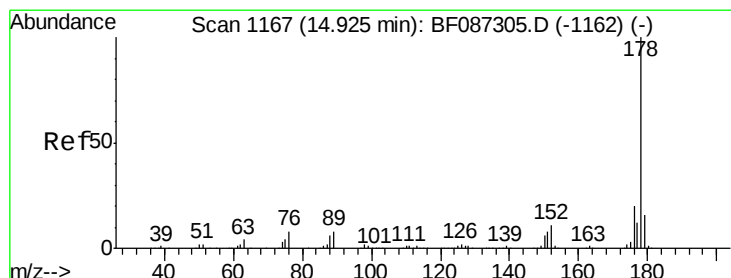
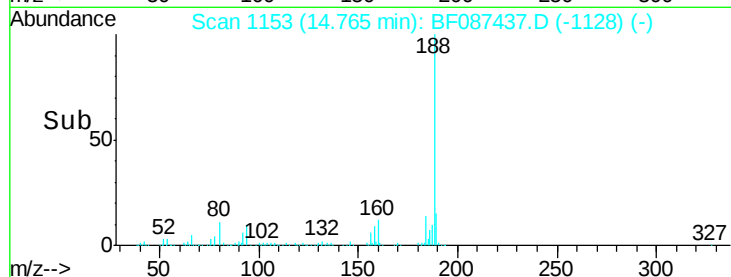
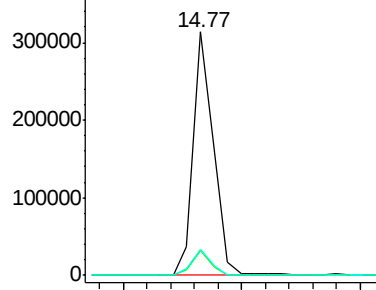
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 14.77 min Scan# 1153
Delta R.T. -0.01 min
Lab File: BF087437.D
Acq: 27 May 2016 9:38

Instrument :
BNA_F
ClientSampleId :
E-4(12.5-13)DL

Tgt Ion:188 Resp: 367150
Ion Ratio Lower Upper
188 100
94 10.0 6.8 10.2
80 10.9 7.1 10.7#

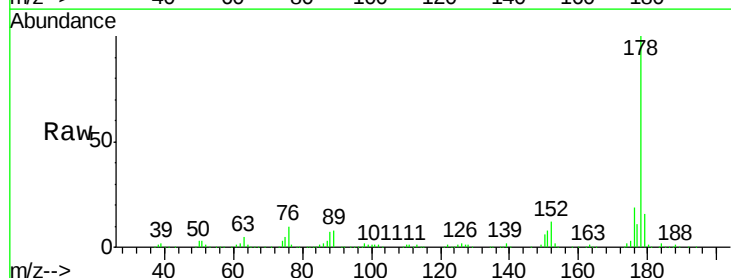


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0

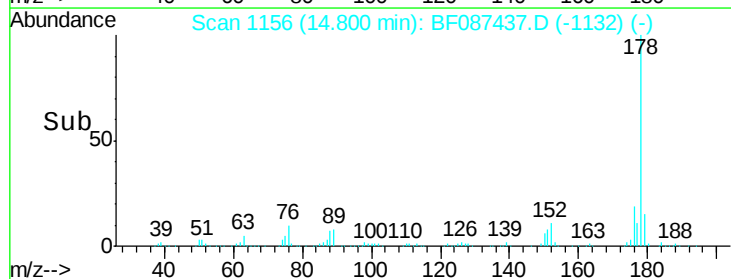
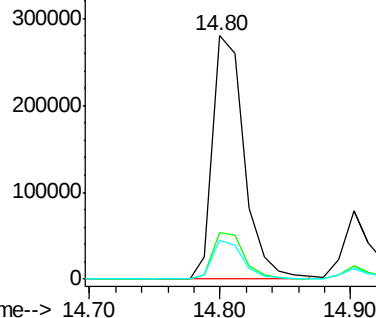


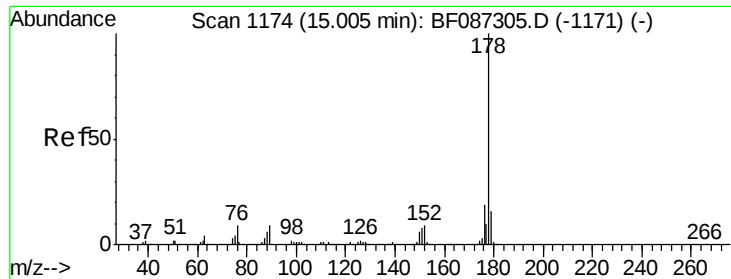
#70
Phenanthrene
Concen: 23.18 ng
RT: 14.80 min Scan# 1156
Delta R.T. -0.02 min
Lab File: BF087437.D
Acq: 27 May 2016 9:38

Tgt Ion:178 Resp: 471416
Ion Ratio Lower Upper
178 100
176 19.4 16.0 24.0
179 15.7 12.6 18.8



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

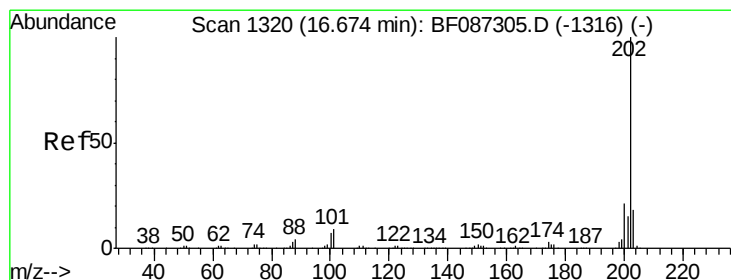
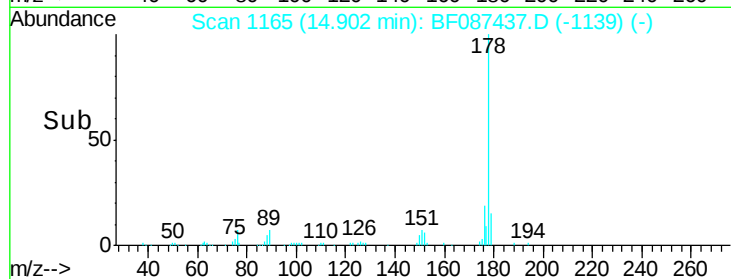
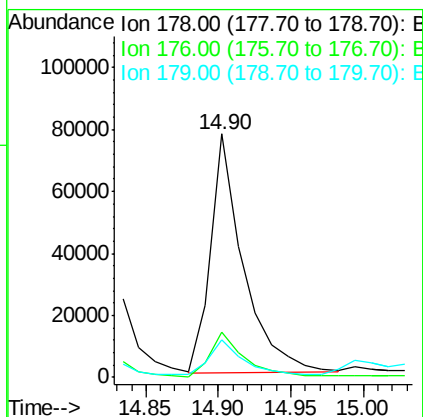
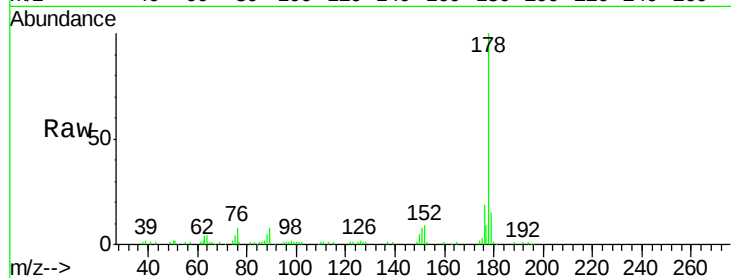




#71
 Anthracene
 Concen: 5.91 ng
 RT: 14.90 min Scan# 1165
 Delta R.T. 0.00 min
 Lab File: BF087437.D
 Acq: 27 May 2016 9:38

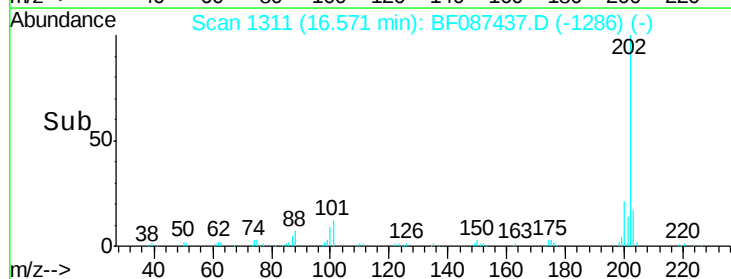
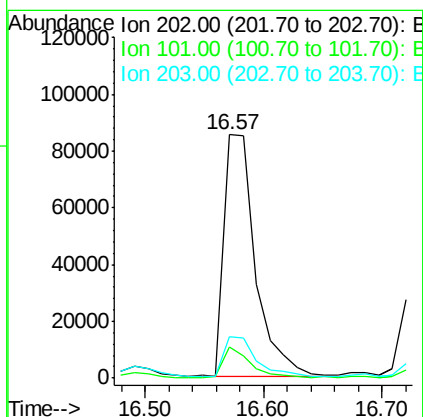
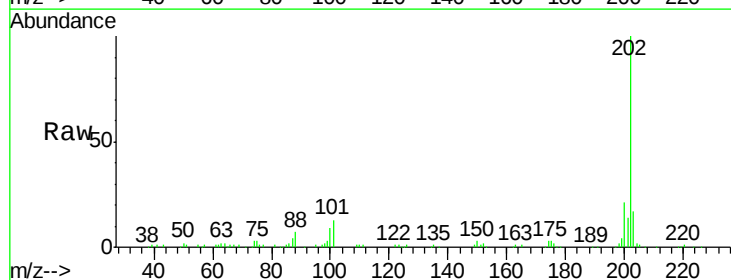
Instrument :
 BNA_F
 ClientSampleId :
 E-4(12.5-13)DL

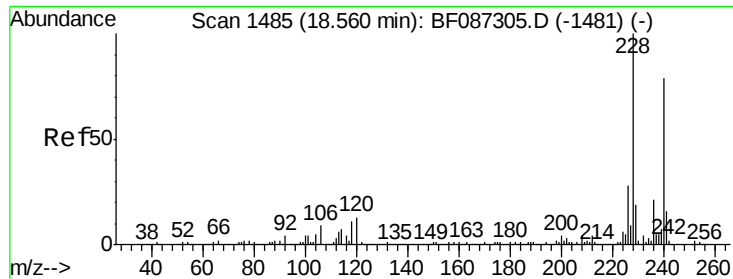
Tgt Ion:178 Resp: 121420
 Ion Ratio Lower Upper
 178 100
 176 18.6 15.6 23.4
 179 15.4 12.7 19.1



#74
 Fluoranthene
 Concen: 7.71 ng
 RT: 16.57 min Scan# 1311
 Delta R.T. -0.01 min
 Lab File: BF087437.D
 Acq: 27 May 2016 9:38

Tgt Ion:202 Resp: 157269
 Ion Ratio Lower Upper
 202 100
 101 12.9 0.0 35.4
 203 17.1 0.0 38.1





#75

Chrysene-d12

Concen: 20.00 ng

RT: 18.47 min Scan# 1477

Delta R.T. -0.01 min

Lab File: BF087437.D

Acq: 27 May 2016 9:38

Instrument :

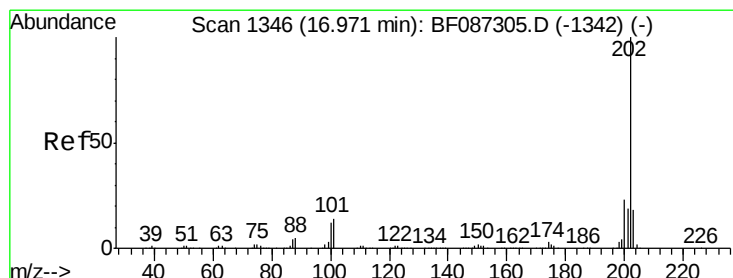
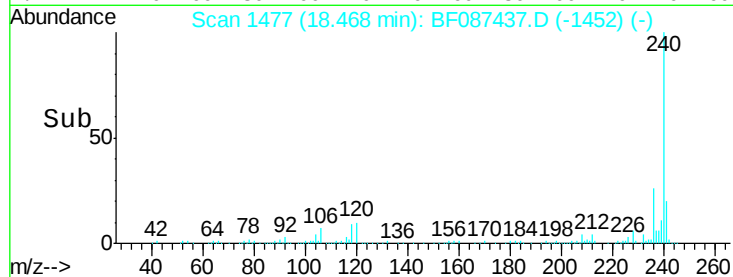
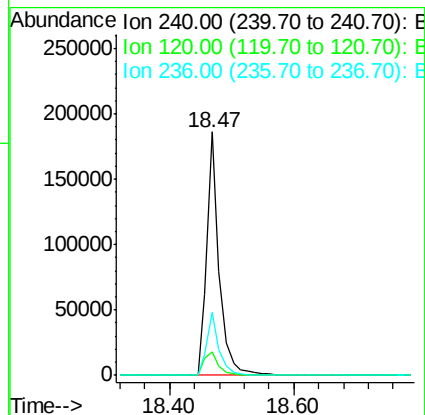
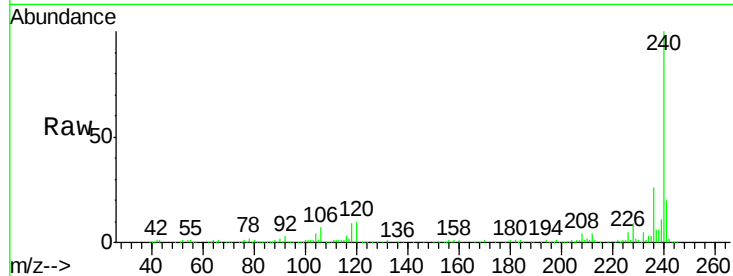
BNA_F

ClientSampleId :

E-4(12.5-13)DL

Tgt Ion:240 Resp: 258862

Ion	Ratio	Lower	Upper
240	100		
120	9.8	11.2	16.8#
236	25.7	21.2	31.8



#77

Pyrene

Concen: 11.89 ng

RT: 16.88 min Scan# 1338

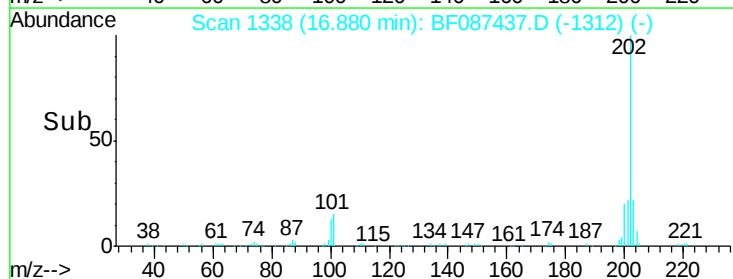
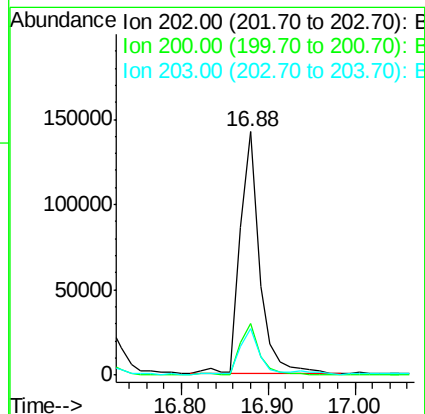
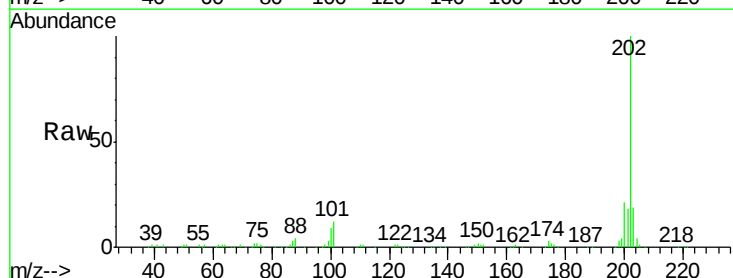
Delta R.T. 0.00 min

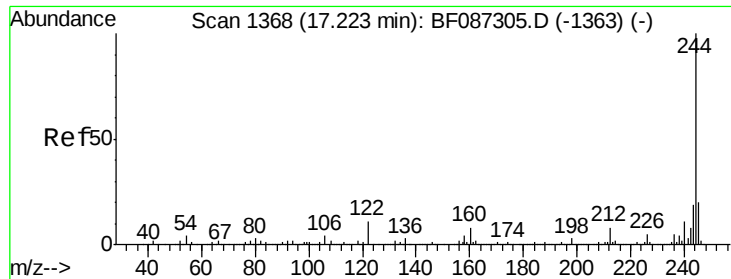
Lab File: BF087437.D

Acq: 27 May 2016 9:38

Tgt Ion:202 Resp: 221639

Ion	Ratio	Lower	Upper
202	100		
200	21.4	17.7	26.5
203	19.0	14.2	21.4





#78

Terphenyl-d14

Concen: 14.65 ng

RT: 17.12 min Scan# 1359

Delta R.T. -0.01 min

Lab File: BF087437.D

Acq: 27 May 2016 9:38

Instrument :

BNA_F

ClientSampleId :

E-4(12.5-13)DL

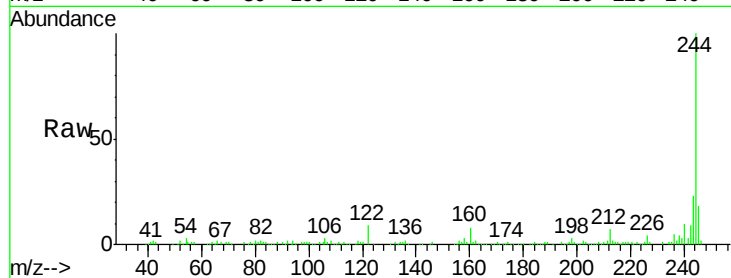
Tgt Ion:244 Resp: 178392

Ion Ratio Lower Upper

244 100

212 7.5 6.2 9.2

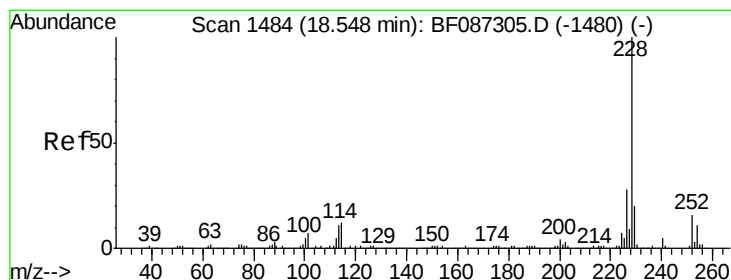
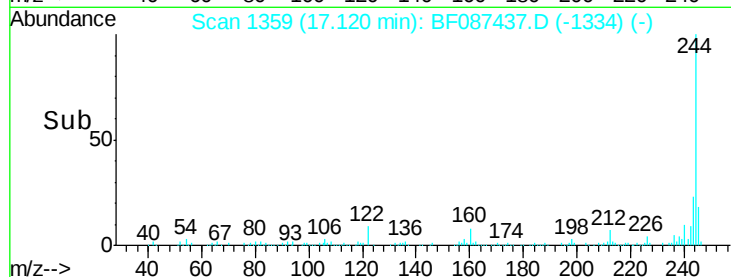
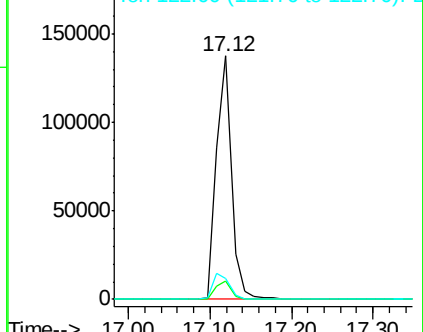
122 8.6 12.0 18.0#



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



#80

Benzo(a)anthracene

Concen: 3.85 ng

RT: 18.46 min Scan# 1476

Delta R.T. 0.00 min

Lab File: BF087437.D

Acq: 27 May 2016 9:38

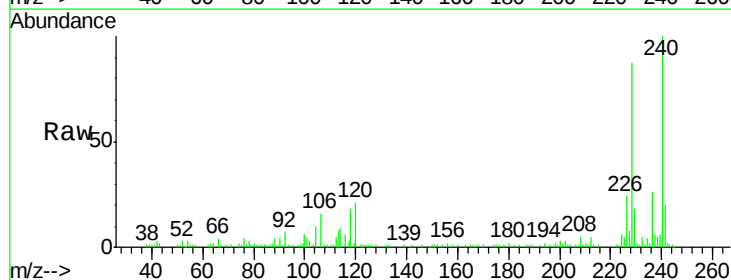
Tgt Ion:228 Resp: 56746

Ion Ratio Lower Upper

228 100

226 27.0 22.5 33.7

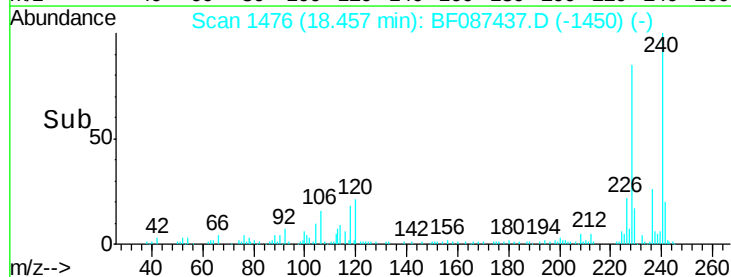
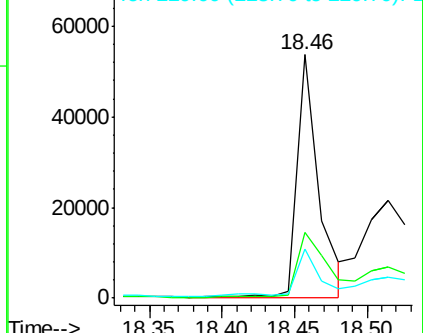
229 20.3 16.6 25.0

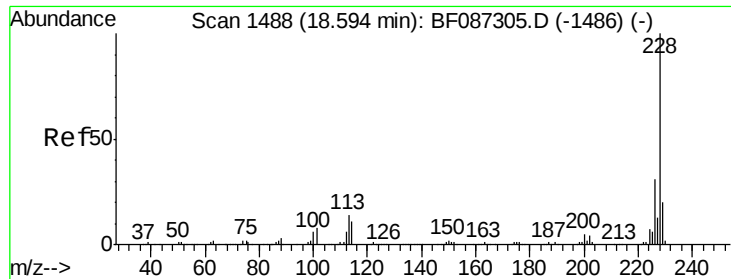


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 3.66 ng

RT: 18.51 min Scan# 1481

Delta R.T. 0.00 min

Lab File: BF087437.D

Acq: 27 May 2016 9:38

Instrument :

BNA_F

ClientSampleId :

E-4(12.5-13)DL

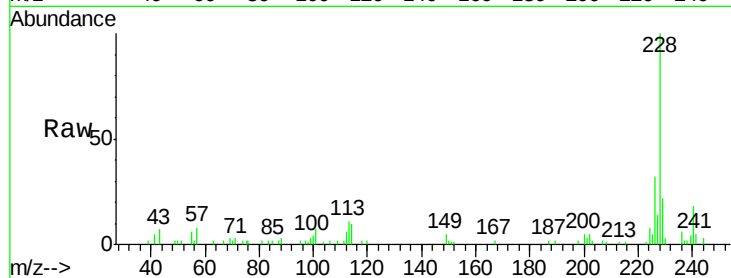
Tgt Ion:228 Resp: 53541

Ion Ratio Lower Upper

228 100

226 32.3 24.4 36.6

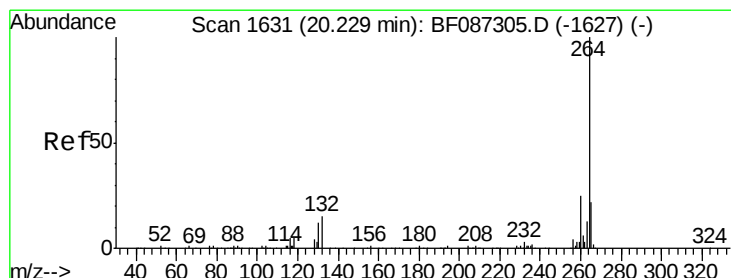
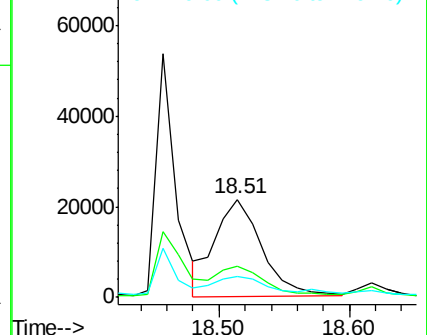
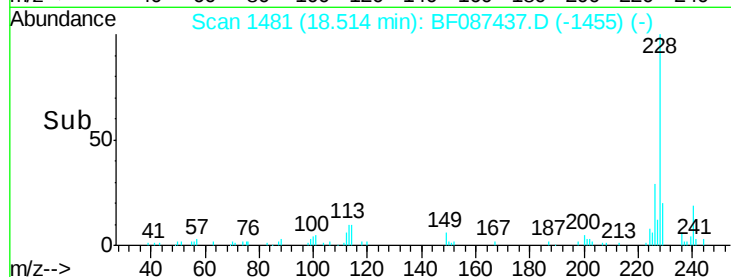
229 22.0 15.8 23.8



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



#86

Perylene-d12

Concen: 20.00 ng

RT: 20.14 min Scan# 1623

Delta R.T. 0.00 min

Lab File: BF087437.D

Acq: 27 May 2016 9:38

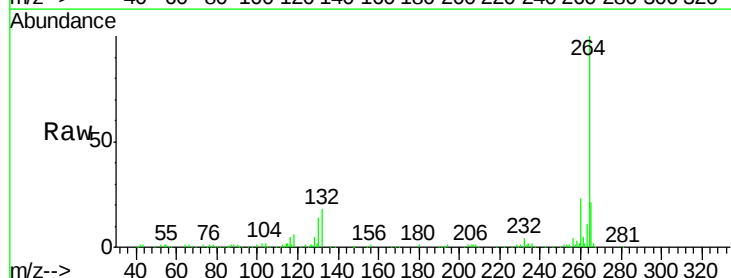
Tgt Ion:264 Resp: 220594

Ion Ratio Lower Upper

264 100

260 23.4 19.5 29.3

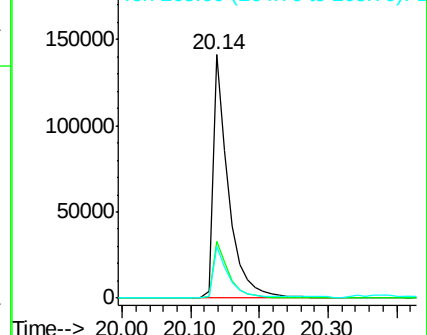
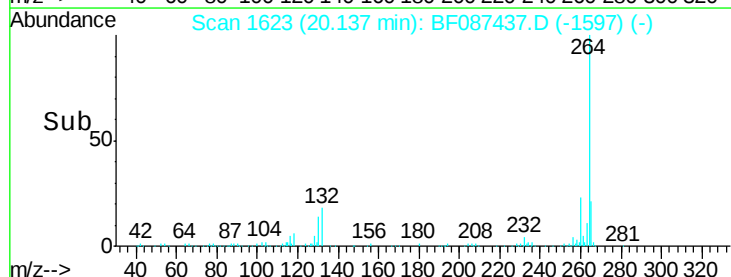
265 21.1 17.3 25.9

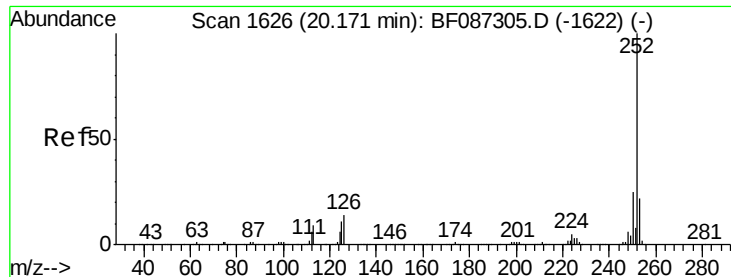


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#89

Benzo(a)pyrene

Concen: 2.82 ng

RT: 20.10 min Scan# 1620

Delta R.T. 0.02 min

Lab File: BF087437.D

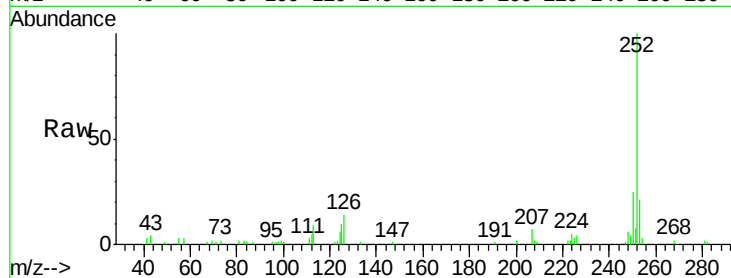
Acq: 27 May 2016 9:38

Instrument :

BNA_F

ClientSampleId :

E-4(12.5-13)DL



Tgt Ion:	252	Resp:	34332
Ion	Ratio	Lower	Upper
252	100		
253	21.0	17.2	25.8
125	10.5	9.0	13.6

