

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF071416\
 Data File : BF089003.D
 Acq On : 14 Jul 2016 23:51
 Operator : UM/SJ
 Sample : H3996-23
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 D8-B1(0-5)C

Quant Time: Jul 15 01:19:45 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF063016.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jul 11 18:13:32 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.68	152	56650	20.00	ng	-0.02
21) Naphthalene-d8	7.98	136	206455	20.00	ng	-0.02
38) Acenaphthene-d10	9.71	164	79607	20.00	ng	-0.03
63) Phenanthrene-d10	11.19	188	127482	20.00	ng	-0.03
75) Chrysene-d12	13.82	240	123845	20.00	ng	-0.03
86) Perylene-d12	15.19	264	86643	20.00	ng	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.28	112	290440	76.84	ng	-0.01
7) Phenol-d6	6.34	99	403404	82.59	ng	-0.01
23) Nitrobenzene-d5	7.26	82	244595	62.09	ng	-0.02
41) 2,4,6-Tribromophenol	10.50	330	49877	67.47	ng	-0.03
44) 2-Fluorobiphenyl	9.05	172	413498	82.05	ng	-0.02
78) Terphenyl-d14	12.78	244	288774	51.94	ng	-0.02

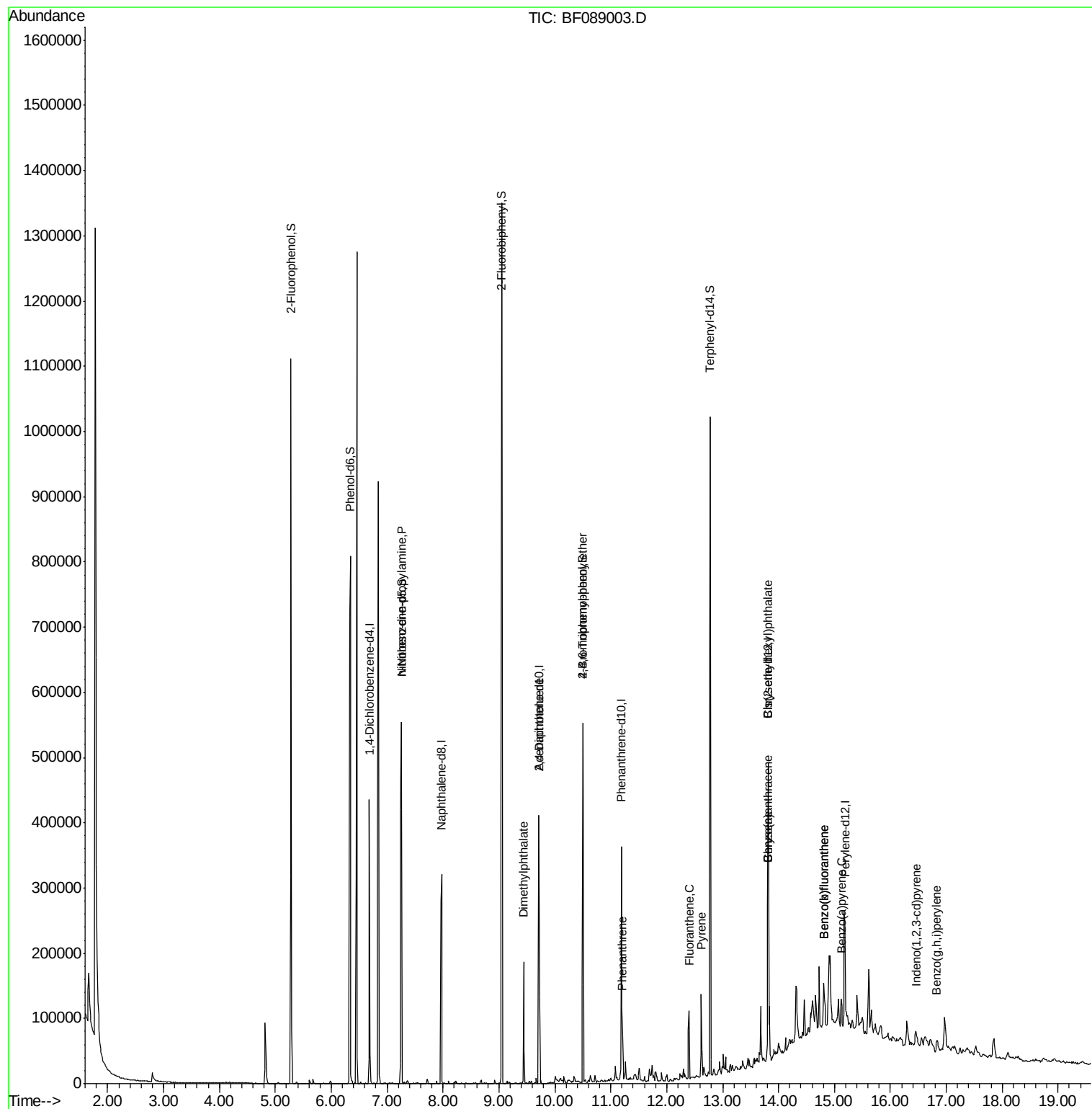
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
19) n-Nitroso-di-n-propylamine	7.26	70	32389	9.87	ng	# 68
49) Dimethylphthalate	9.44	163	71133	12.54	ng	99
56) 2,4-Dinitrotoluene	9.71	165	10101	6.15	ng	# 36
66) 4-Bromophenyl-phenylether	10.50	248	4177	3.25	ng	# 1
70) Phenanthrene	11.21	178	23509	3.37	ng	99
74) Fluoranthene	12.40	202	52612	7.45	ng	92
77) Pyrene	12.62	202	49041	4.67	ng	97
80) Benzo(a)anthracene	13.81	228	26811	3.36	ng	98
82) Chrysene	13.81	228	26811	3.40	ng	97
83) Bis(2-ethylhexyl)phthalate	13.82	149	18361	3.43	ng	99
85) Indeno(1,2,3-cd)pyrene	16.46	276	12463	2.05	ng	# 100
87) Benzo(b)fluoranthene	14.81	252	41697	7.67	ng	# 92
88) Benzo(k)fluoranthene	14.81	252	41697	8.81	ng	97
89) Benzo(a)pyrene	15.12	252	19512	4.24	ng	# 90
91) Benzo(g,h,i)perylene	16.83	276	11930	3.00	ng	# 94

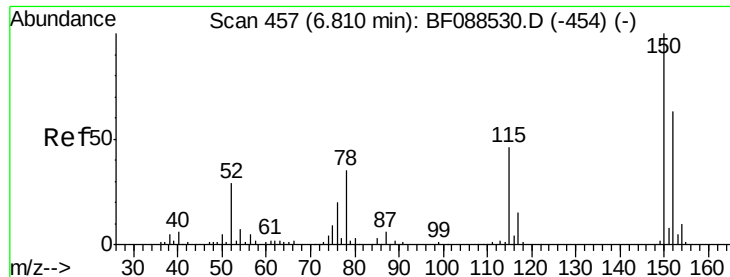
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.68 min Scan# 446

Delta R.T. -0.02 min

Lab File: BF089003.D

Acq: 14 Jul 2016 23:51

Instrument :

BNA_F

ClientSampleId :

D8-B1(0-5)C

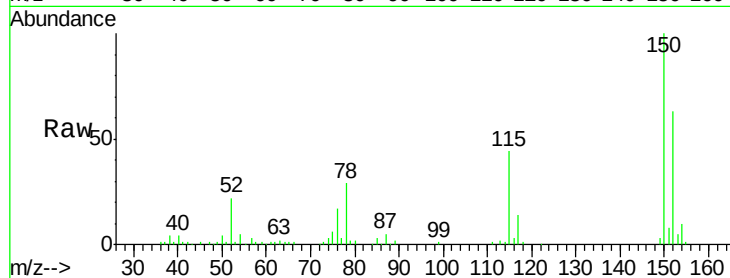
Tgt Ion:152 Resp: 56650

Ion Ratio Lower Upper

152 100

150 157.9 123.8 185.6

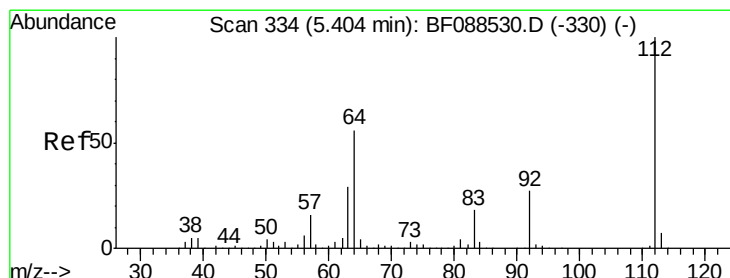
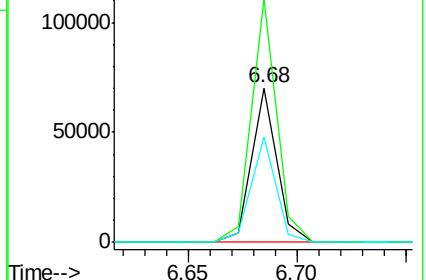
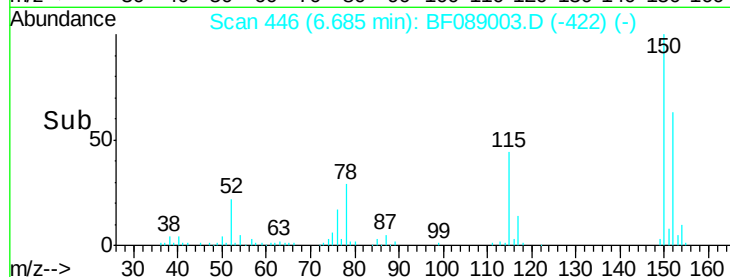
115 68.7 39.6 59.4#



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: 76.84 ng

RT: 5.28 min Scan# 323

Delta R.T. -0.01 min

Lab File: BF089003.D

Acq: 14 Jul 2016 23:51

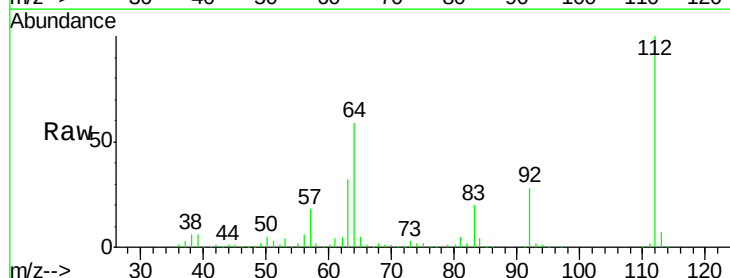
Tgt Ion:112 Resp: 290440

Ion Ratio Lower Upper

112 100

64 58.7 42.2 63.2

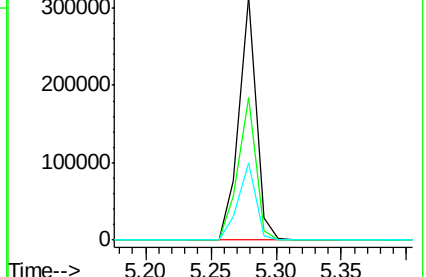
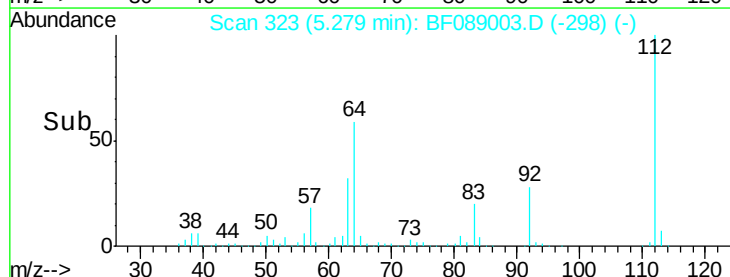
63 31.7 21.8 32.8

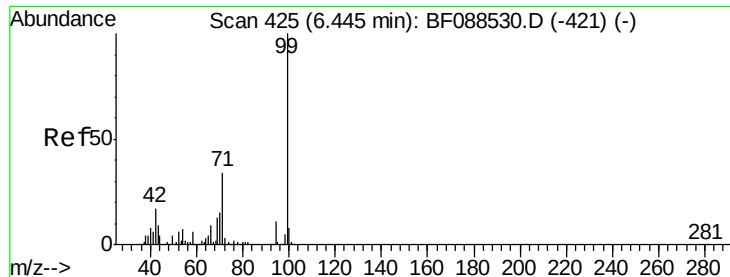


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 82.59 ng

RT: 6.34 min Scan# 416

Delta R.T. -0.01 min

Lab File: BF089003.D

Acq: 14 Jul 2016 23:51

Instrument :

BNA_F

ClientSampleId :

D8-B1(0-5)C

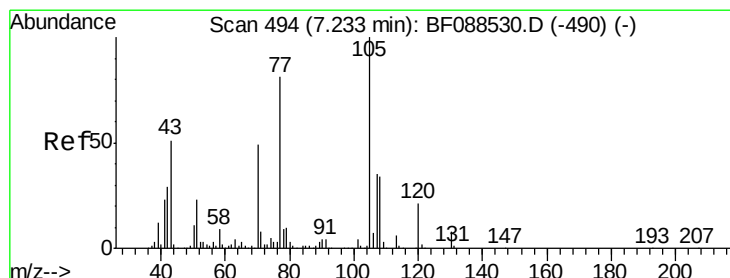
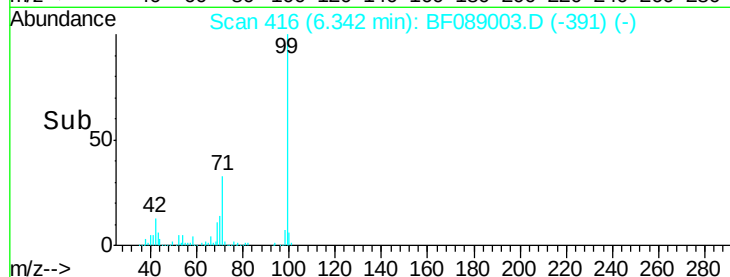
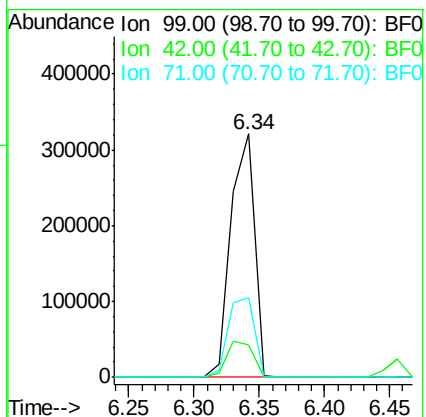
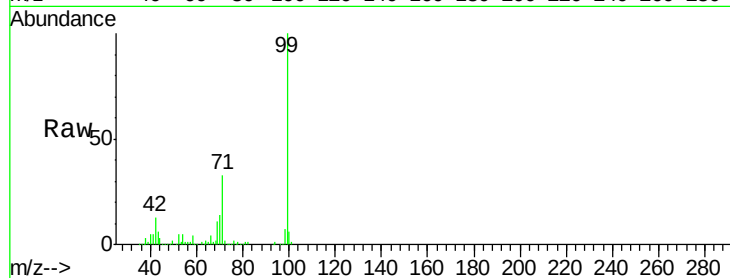
Tgt Ion: 99 Resp: 403404

Ion Ratio Lower Upper

99 100

42 13.1 12.2 18.2

71 32.5 23.4 35.0



#19

n-Nitroso-di-n-propylamine

Concen: 9.87 ng

RT: 7.26 min Scan# 496

Delta R.T. 0.11 min

Lab File: BF089003.D

Acq: 14 Jul 2016 23:51

Tgt Ion: 70 Resp: 32389

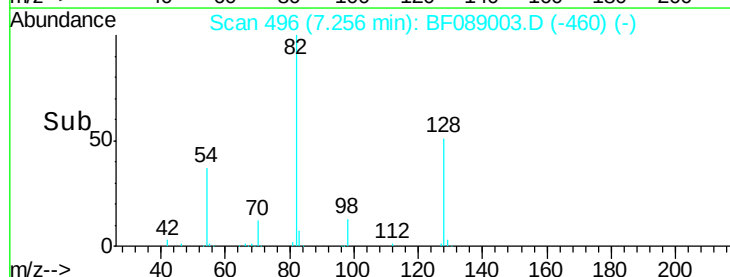
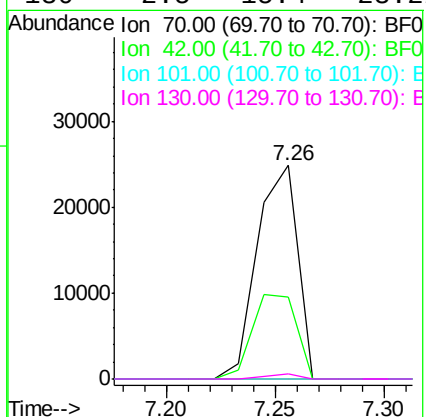
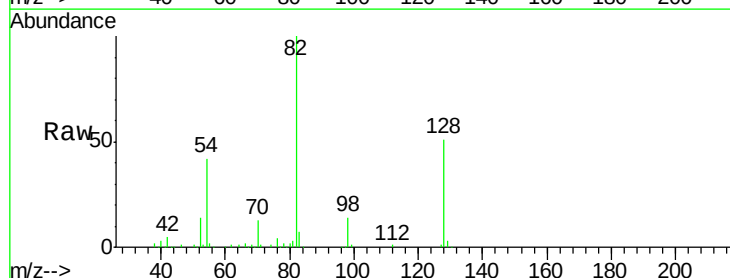
Ion Ratio Lower Upper

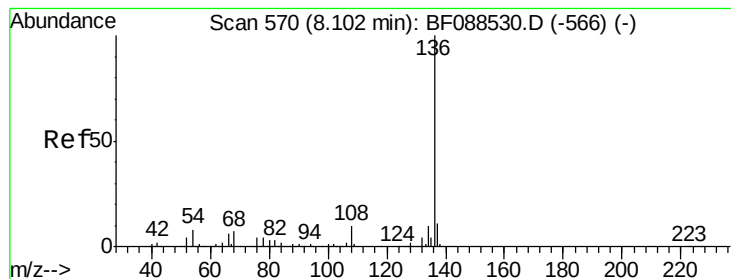
70 100

42 38.1 49.6 74.4#

101 0.0 7.1 10.7#

130 2.5 15.4 23.2#





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.98 min Scan# 559

Delta R.T. -0.02 min

Lab File: BF089003.D

Acq: 14 Jul 2016 23:51

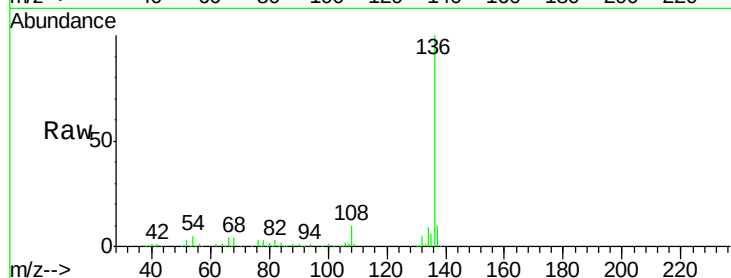
Instrument :

BNA_F

ClientSampleId :

D8-B1(0-5)C

Tgt Ion:	136	Resp:	206455
Ion Ratio	Lower	Upper	
136	100		
137	10.1	9.1	13.7
54	4.7	6.6	10.0#
68	3.8	5.1	7.7#



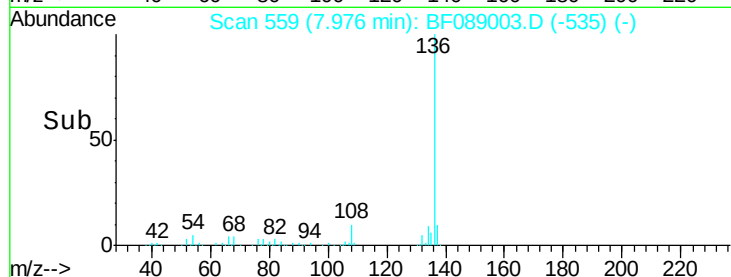
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

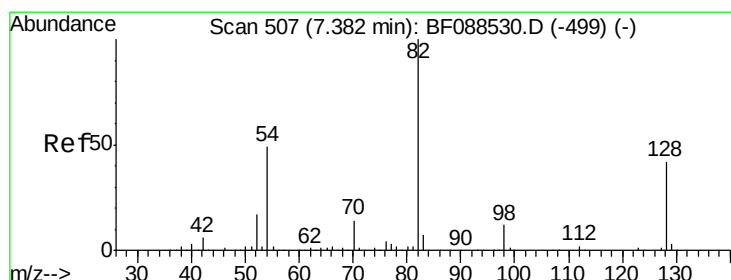
Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0

Time-->



Time-->



#23

Nitrobenzene-d5

Concen: 62.09 ng

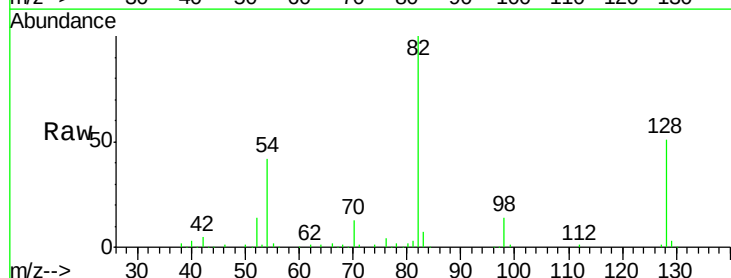
RT: 7.26 min Scan# 496

Delta R.T. -0.02 min

Lab File: BF089003.D

Acq: 14 Jul 2016 23:51

Tgt Ion:	82	Resp:	244595
Ion Ratio	Lower	Upper	
82	100		
128	50.7	35.9	53.9
54	41.5	40.9	61.3

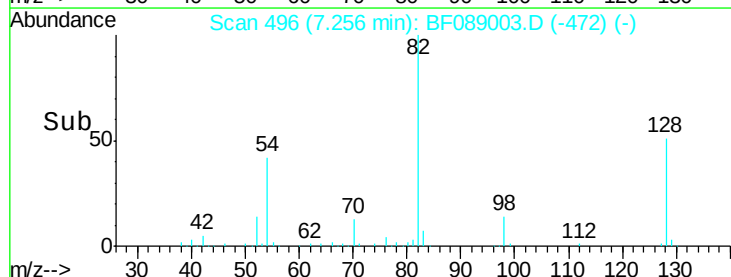


Abundance Ion 82.00 (81.70 to 82.70): BF0

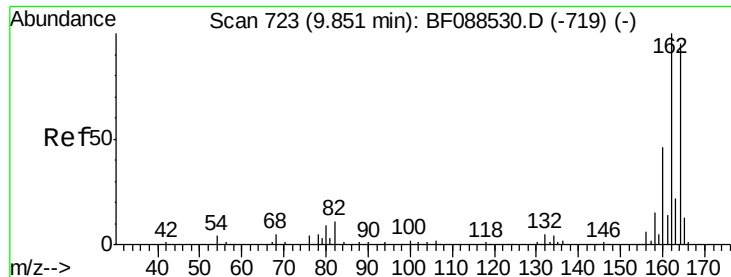
Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0

Time-->



Time-->



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.71 min Scan# 711

Delta R.T. -0.03 min

Lab File: BF089003.D

Acq: 14 Jul 2016 23:51

Instrument :

BNA_F

ClientSampleId :

D8-B1(0-5)C

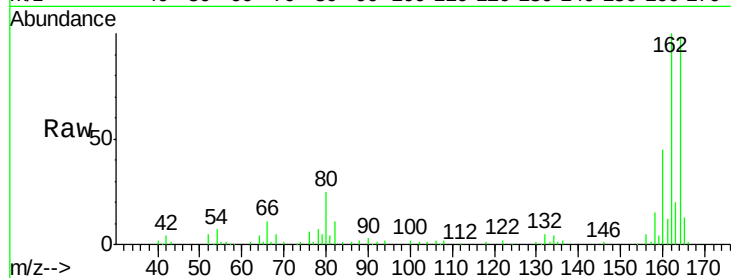
Tgt Ion:164 Resp: 79607

Ion Ratio Lower Upper

164 100

162 102.2 85.4 128.2

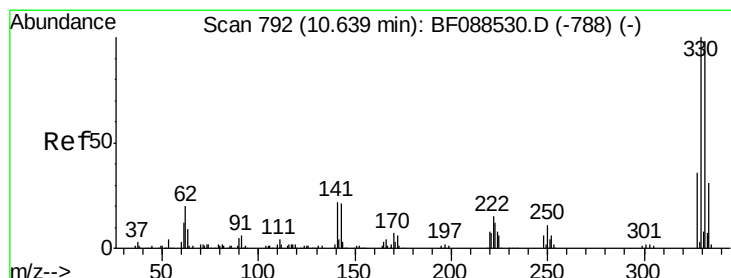
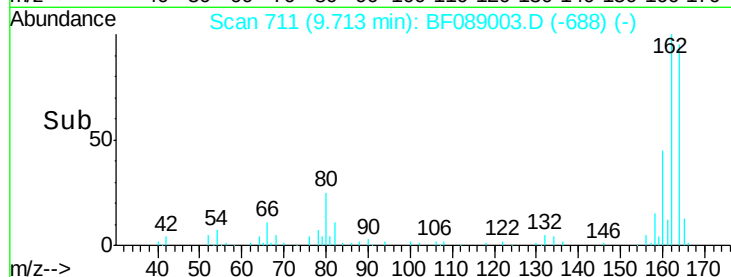
160 45.7 39.5 59.3



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: 67.47 ng

RT: 10.50 min Scan# 780

Delta R.T. -0.03 min

Lab File: BF089003.D

Acq: 14 Jul 2016 23:51

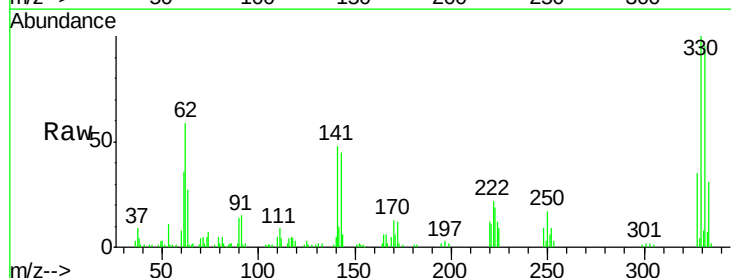
Tgt Ion:330 Resp: 49877

Ion Ratio Lower Upper

330 100

332 94.6 0.0 0.0#

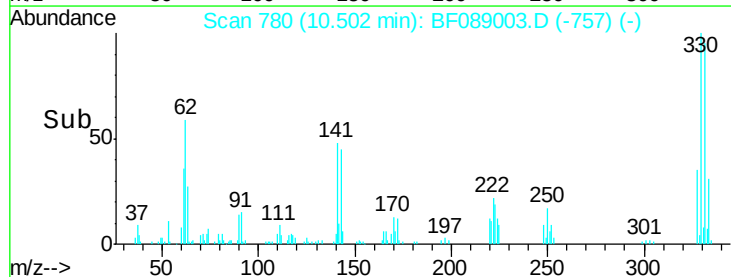
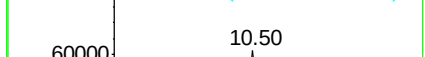
141 53.1 0.0 0.0#

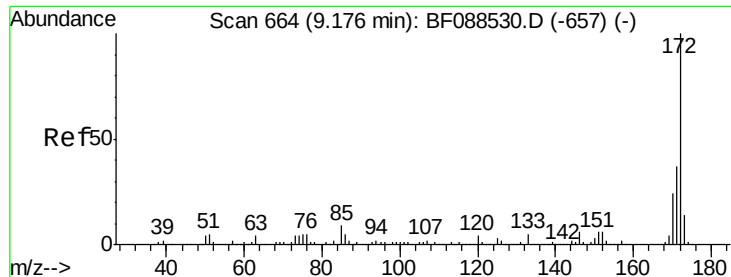


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

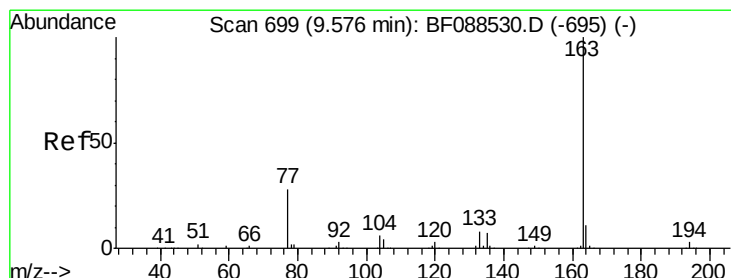
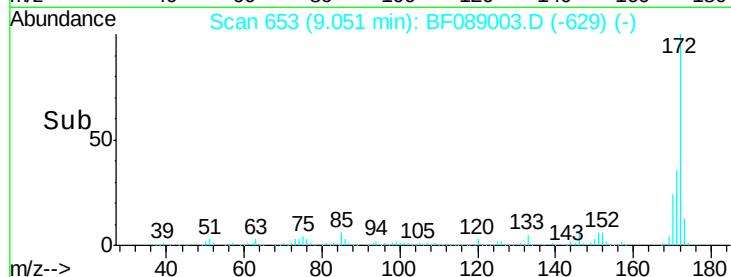
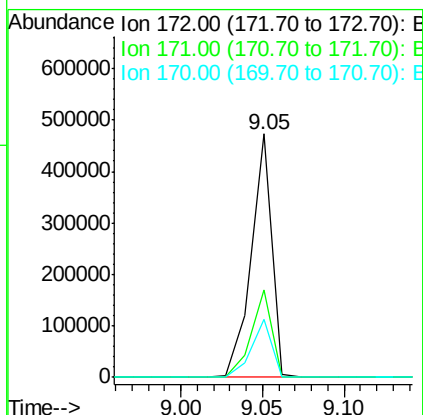
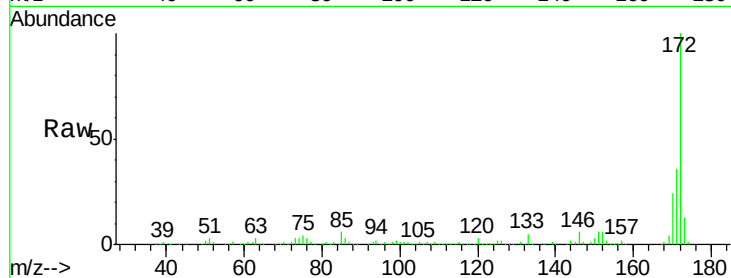




#44
 2-Fluorobiphenyl
 Concen: 82.05 ng
 RT: 9.05 min Scan# 653
 Delta R.T. -0.02 min
 Lab File: BF089003.D
 Acq: 14 Jul 2016 23:51

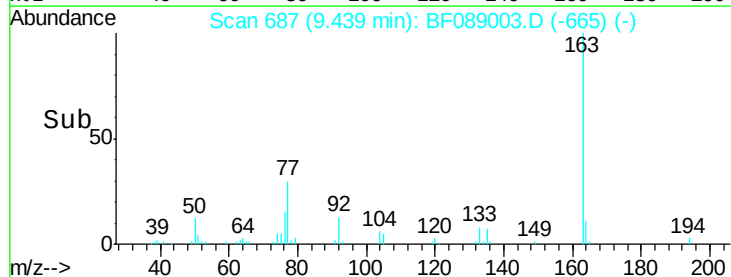
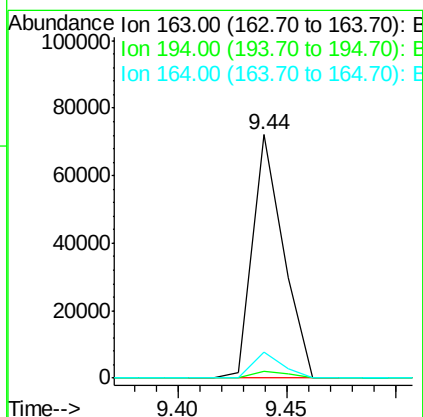
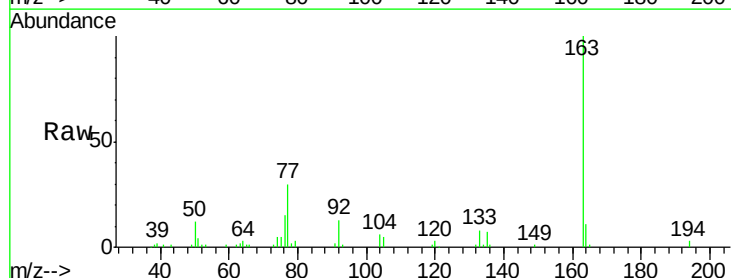
Instrument :
 BNA_F
 ClientSampleId :
 D8-B1(0-5)C

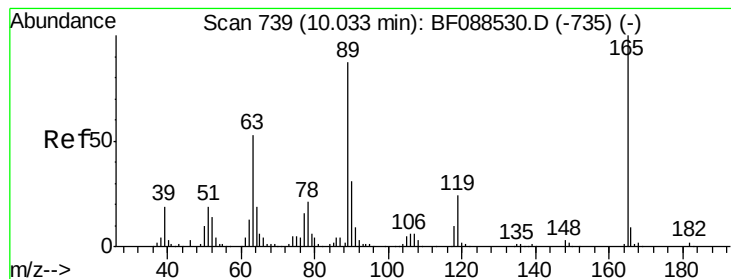
Tgt Ion:172 Resp: 413498
 Ion Ratio Lower Upper
 172 100
 171 35.8 28.6 43.0
 170 23.7 19.2 28.8



#49
 Dimethylphthalate
 Concen: 12.54 ng
 RT: 9.44 min Scan# 687
 Delta R.T. -0.05 min
 Lab File: BF089003.D
 Acq: 14 Jul 2016 23:51

Tgt Ion:163 Resp: 71133
 Ion Ratio Lower Upper
 163 100
 194 2.8 2.8 4.2
 164 10.8 8.3 12.5





#56

2,4-Dinitrotoluene

Concen: 6.15 ng

RT: 9.71 min Scan# 711

Delta R.T. -0.23 min

Lab File: BF089003.D

Acq: 14 Jul 2016 23:51

Instrument :

BNA_F

ClientSampleId :

D8-B1(0-5)C

Tgt Ion:165 Resp: 10101

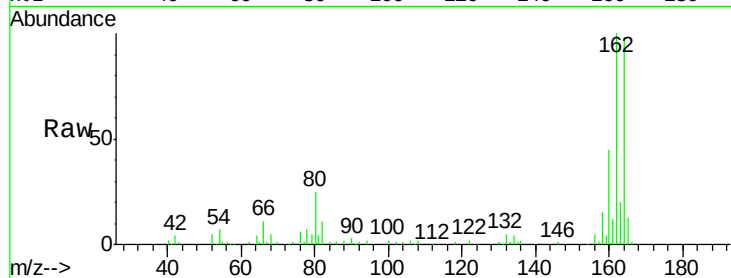
Ion Ratio Lower Upper

165 100

63 0.0 22.0 33.0#

89 0.0 41.1 61.7#

182 0.0 2.0 3.0#

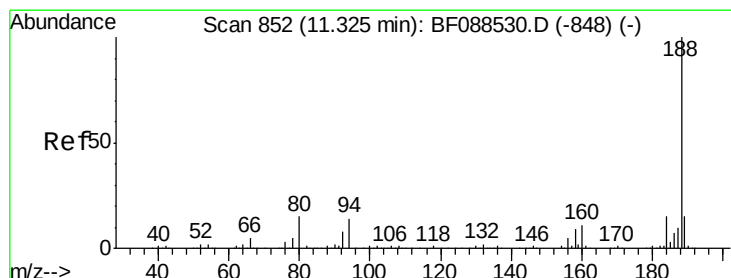
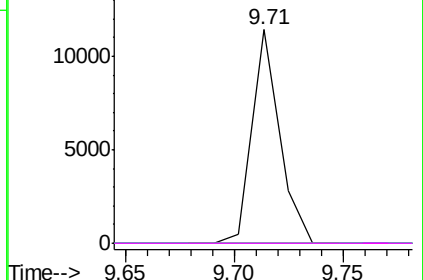
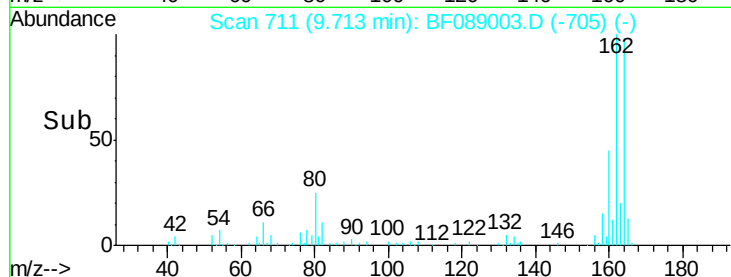


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.19 min Scan# 840

Delta R.T. -0.03 min

Lab File: BF089003.D

Acq: 14 Jul 2016 23:51

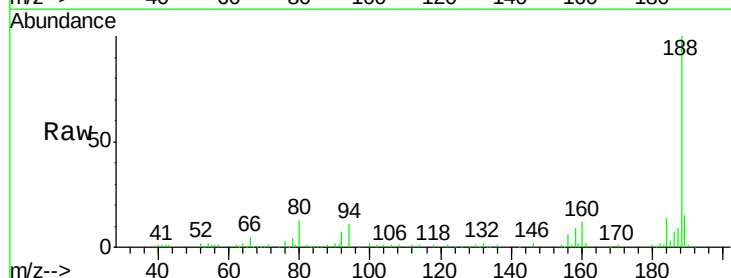
Tgt Ion:188 Resp: 127482

Ion Ratio Lower Upper

188 100

94 11.4 9.0 13.6

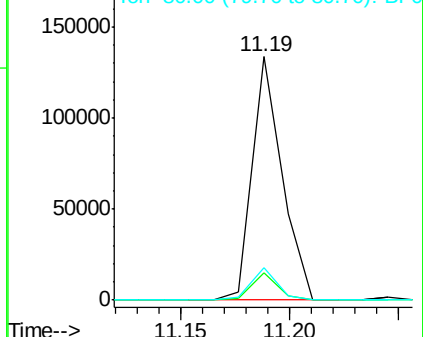
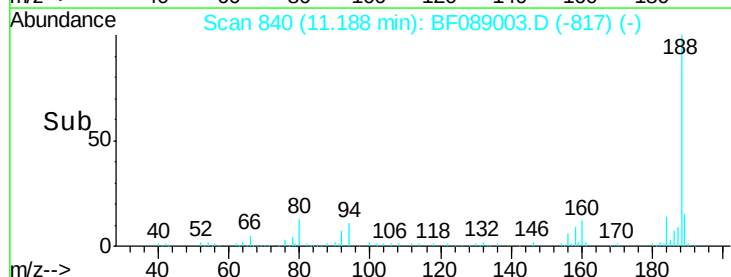
80 13.5 10.0 15.0

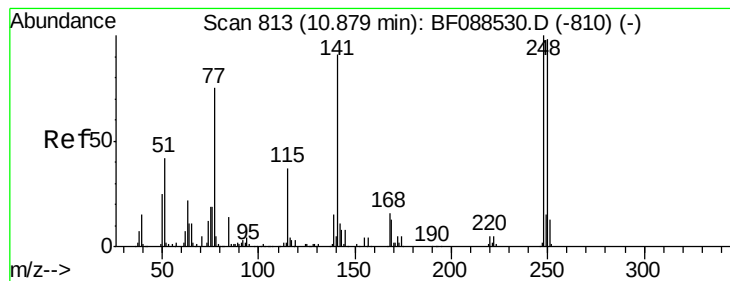


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0





#66

4-Bromophenyl-phenylether

Concen: 3.25 ng

RT: 10.50 min Scan# 780

Delta R.T. -0.27 min

Lab File: BF089003.D

Acq: 14 Jul 2016 23:51

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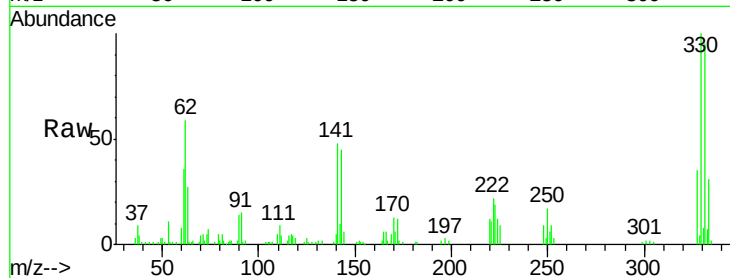
Tgt Ion:248 Resp: 4177

Ion Ratio Lower Upper

248 100

250 186.7 77.1 115.7#

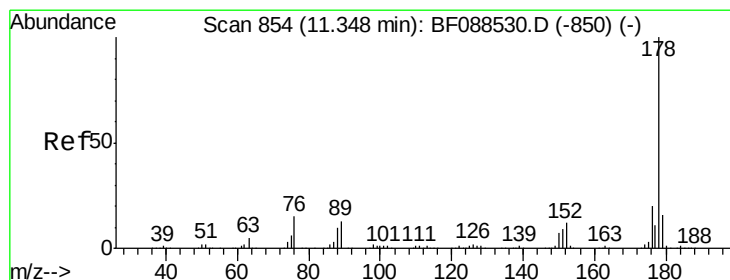
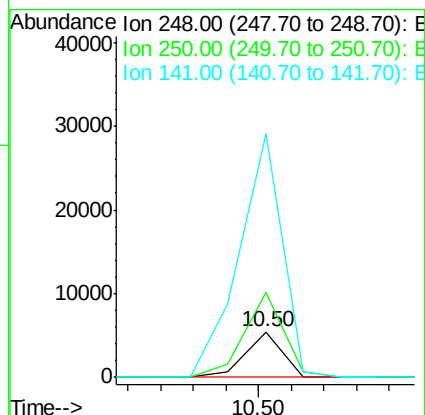
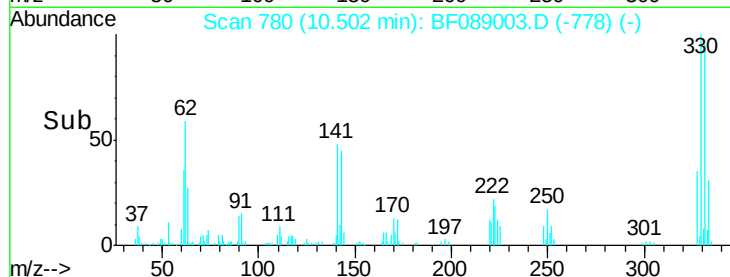
141 532.5 50.6 76.0#



Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E



#70

Phenanthrene

Concen: 3.37 ng

RT: 11.21 min Scan# 842

Delta R.T. -0.03 min

Lab File: BF089003.D

Acq: 14 Jul 2016 23:51

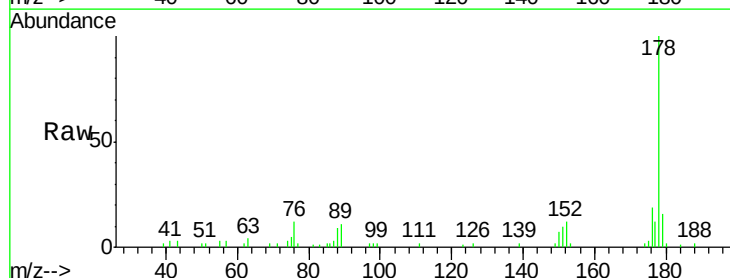
Tgt Ion:178 Resp: 23509

Ion Ratio Lower Upper

178 100

176 19.0 15.8 23.6

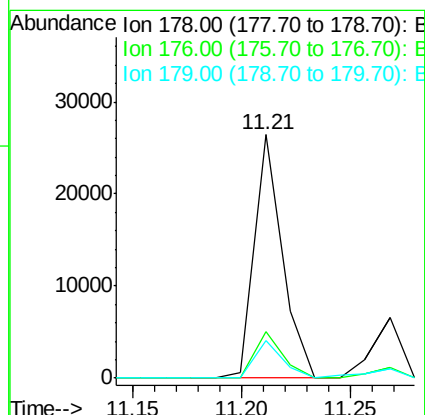
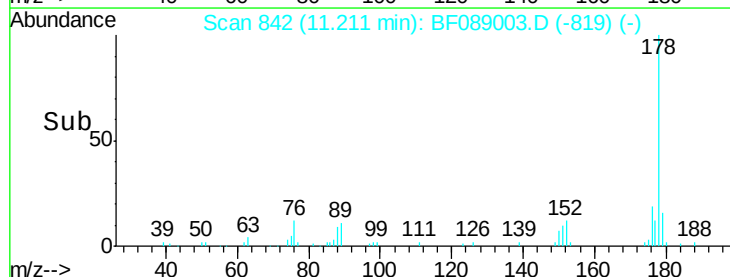
179 15.6 13.0 19.4

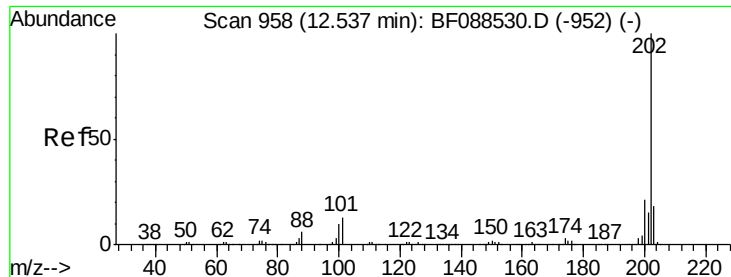


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#74

Fluoranthene

Concen: 7.45 ng

RT: 12.40 min Scan# 946

Delta R.T. -0.02 min

Lab File: BF089003.D

Acq: 14 Jul 2016 23:51

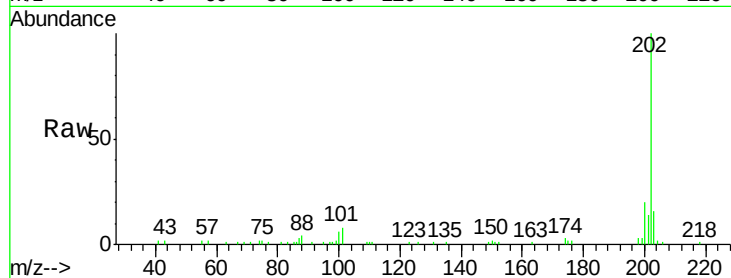
Instrument :

BNA_F

ClientSampleId :

D8-B1(0-5)C

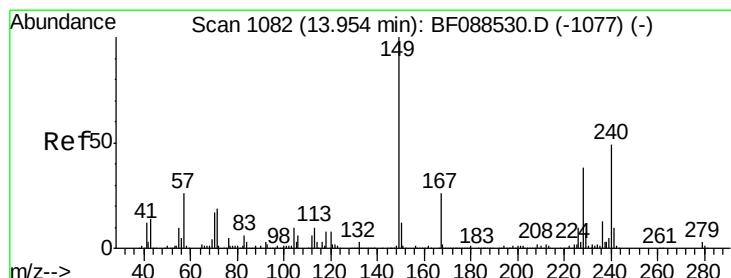
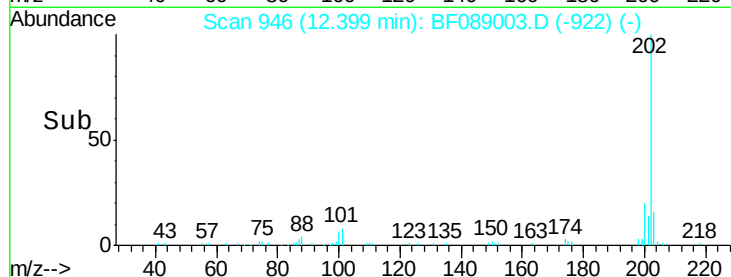
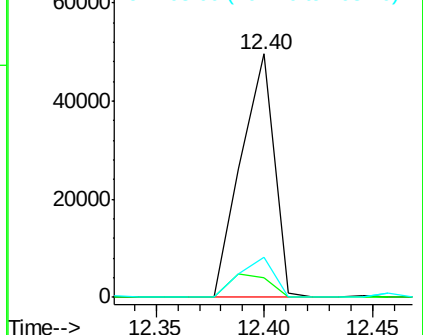
Tgt Ion:	202	Resp:	52612
Ion Ratio	Lower	Upper	
202	100		
101	8.0	0.0	33.1
203	16.2	0.0	38.1



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



#75

Chrysene-d12

Concen: 20.00 ng

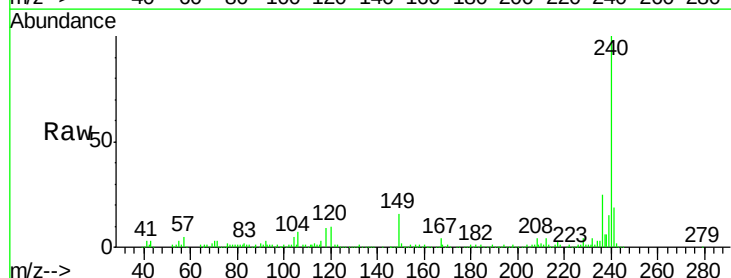
RT: 13.82 min Scan# 1070

Delta R.T. -0.03 min

Lab File: BF089003.D

Acq: 14 Jul 2016 23:51

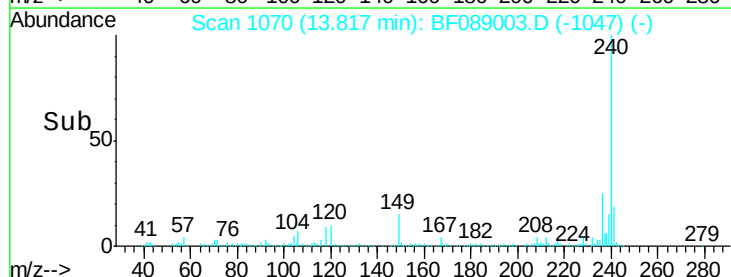
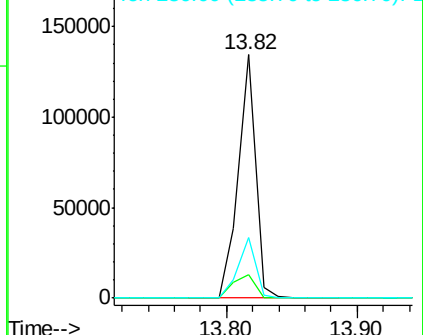
Tgt Ion:	240	Resp:	123845
Ion Ratio	Lower	Upper	
240	100		
120	9.7	6.8	10.2
236	24.9	20.2	30.2

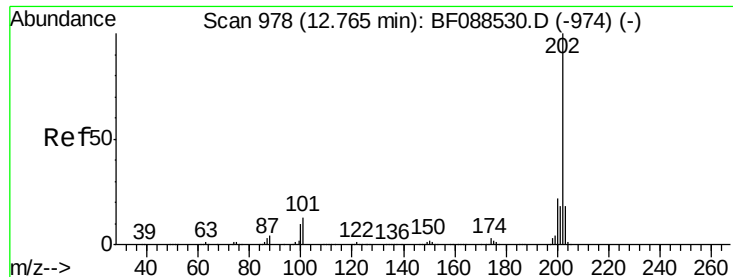


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pyrene

Concen: 4.67 ng

RT: 12.62 min Scan# 965

Delta R.T. -0.03 min

Lab File: BF089003.D

Acq: 14 Jul 2016 23:51

Instrument :

BNA_F

ClientSampleId :

D8-B1(0-5)C

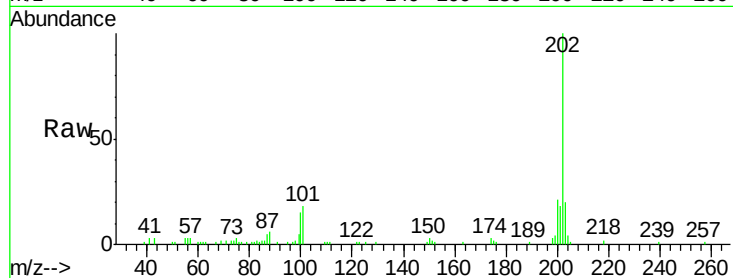
Tgt Ion:202 Resp: 49041

Ion Ratio Lower Upper

202 100

200 20.7 17.4 26.2

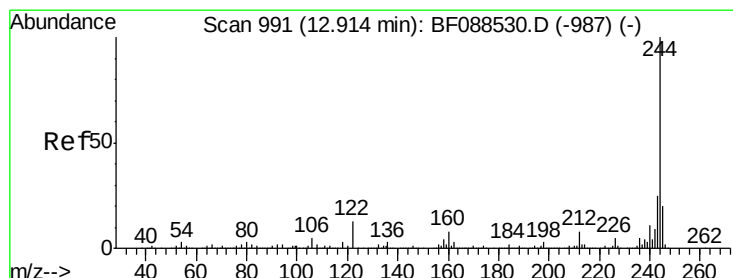
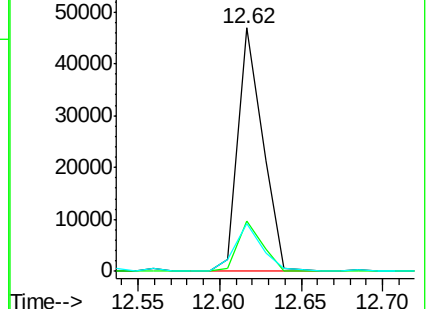
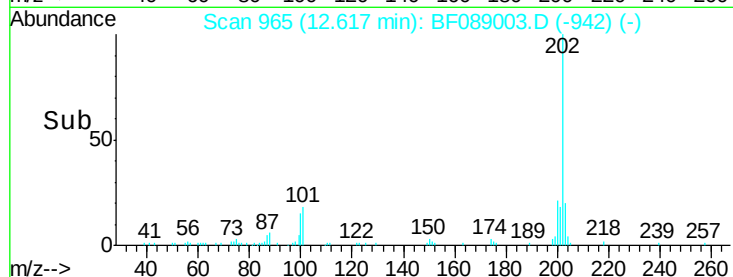
203 19.5 14.5 21.7



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



#78

Terphenyl-d14

Concen: 51.94 ng

RT: 12.78 min Scan# 979

Delta R.T. -0.02 min

Lab File: BF089003.D

Acq: 14 Jul 2016 23:51

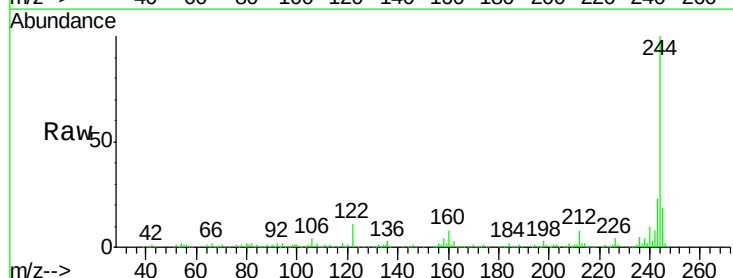
Tgt Ion:244 Resp: 288774

Ion Ratio Lower Upper

244 100

212 7.6 6.0 9.0

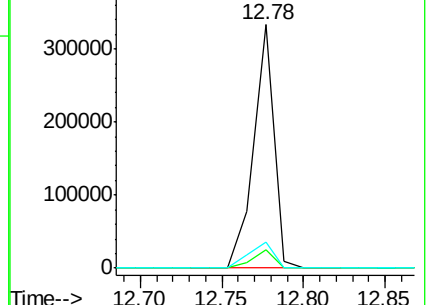
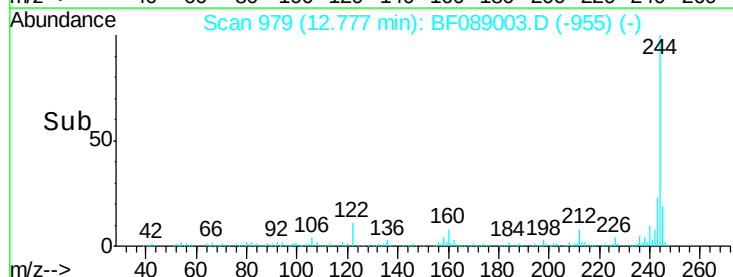
122 10.9 11.2 16.8#

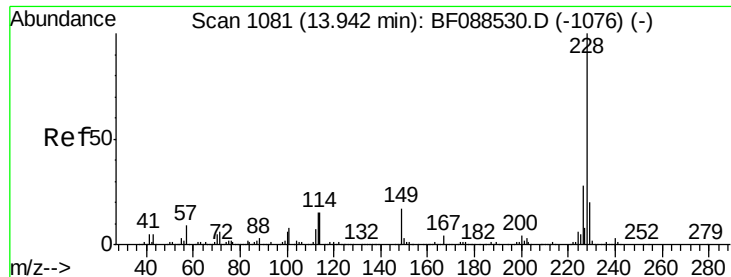


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 3.36 ng

RT: 13.81 min Scan# 1069

Delta R.T. -0.03 min

Lab File: BF089003.D

Acq: 14 Jul 2016 23:51

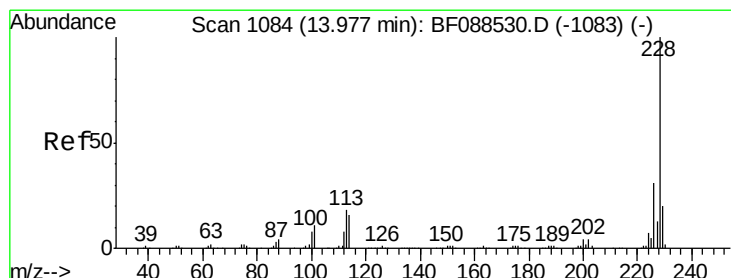
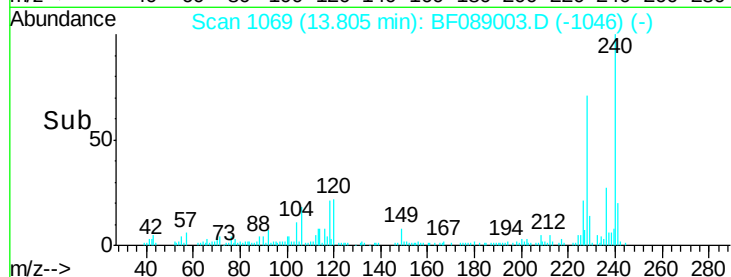
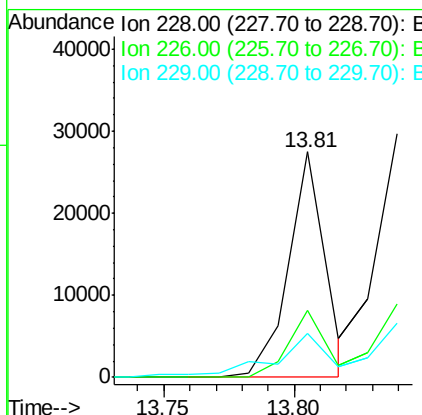
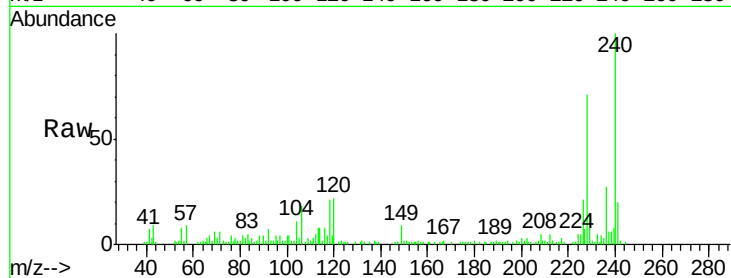
Instrument :

BNA_F

ClientSampleId :

D8-B1(0-5)C

Tgt Ion:	228	Resp:	26811
Ion	Ratio	Lower	Upper
228	100		
226	29.6	22.3	33.5
229	19.3	16.0	24.0



#82

Chrysene

Concen: 3.40 ng

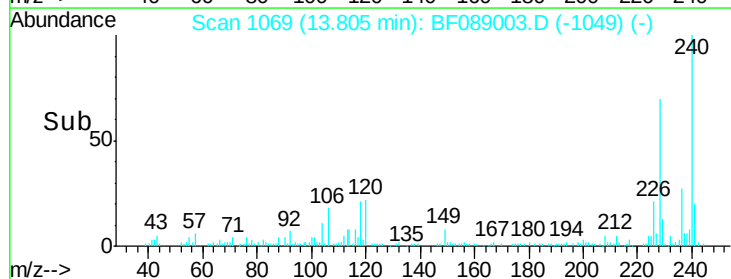
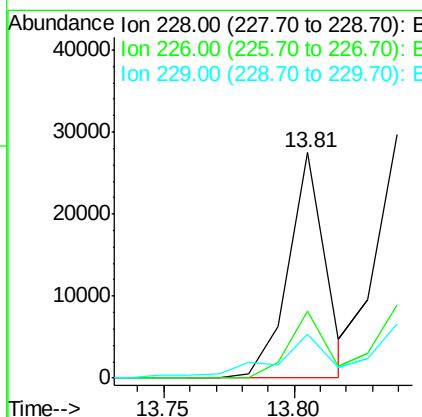
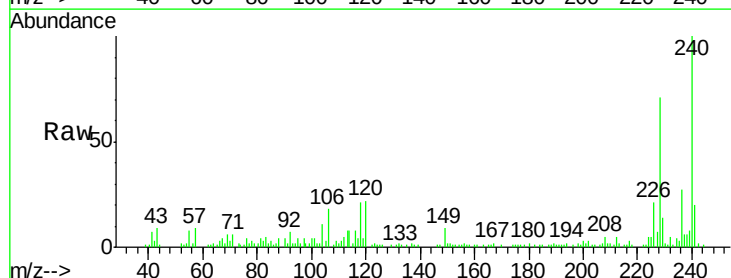
RT: 13.81 min Scan# 1069

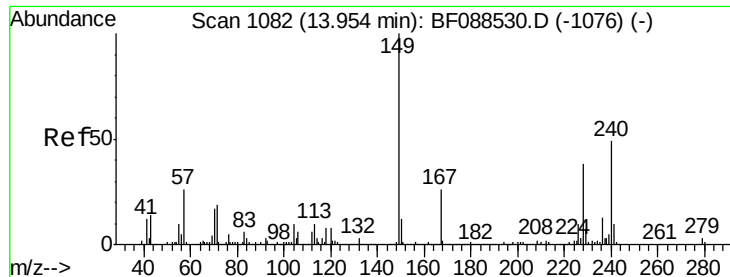
Delta R.T. -0.07 min

Lab File: BF089003.D

Acq: 14 Jul 2016 23:51

Tgt Ion:	228	Resp:	26811
Ion	Ratio	Lower	Upper
228	100		
226	29.6	25.4	38.2
229	19.3	16.3	24.5





#83

Bis(2-ethylhexyl)phthalate

Concen: 3.43 ng

RT: 13.82 min Scan# 1070

Delta R.T. -0.02 min

Lab File: BF089003.D

Acq: 14 Jul 2016 23:51

Instrument :

BNA_F

ClientSampleId :

D8-B1(0-5)C

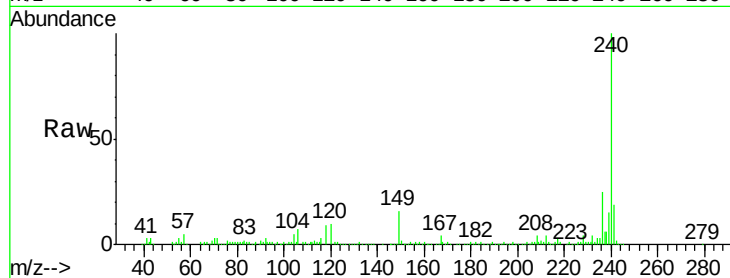
Tgt Ion:149 Resp: 18361

Ion Ratio Lower Upper

149 100

167 26.0 20.5 30.7

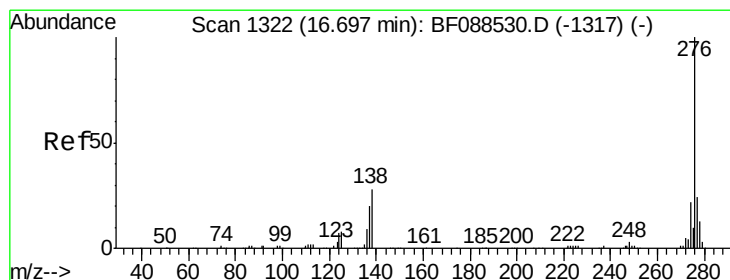
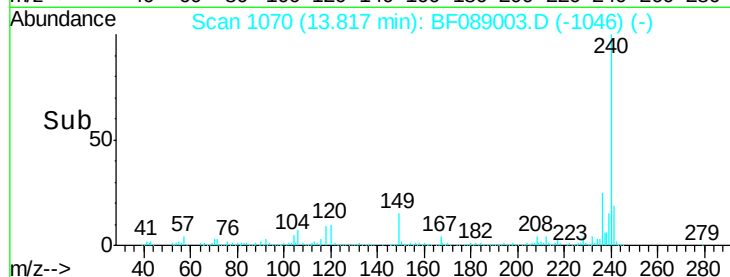
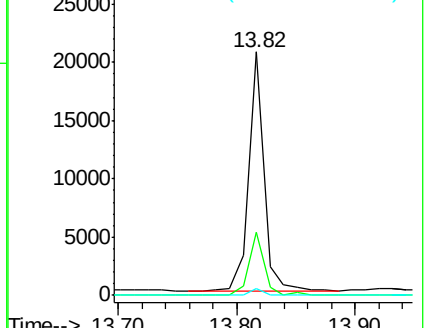
279 2.8 2.0 3.0



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E



#85

Indeno(1,2,3-cd)pyrene

Concen: 2.05 ng

RT: 16.46 min Scan# 1301

Delta R.T. -0.05 min

Lab File: BF089003.D

Acq: 14 Jul 2016 23:51

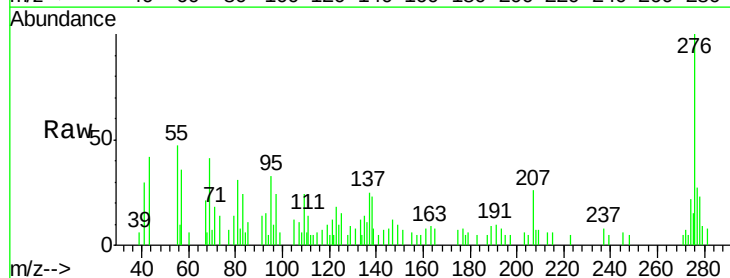
Tgt Ion:276 Resp: 12463

Ion Ratio Lower Upper

276 100

138 35.6 0.0 0.0#

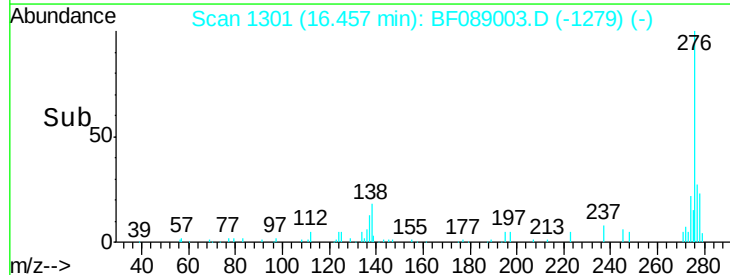
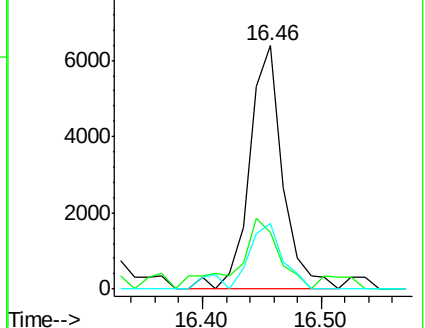
277 30.4 0.0 0.0#

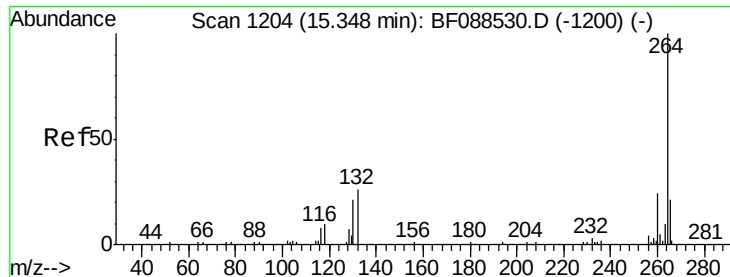


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

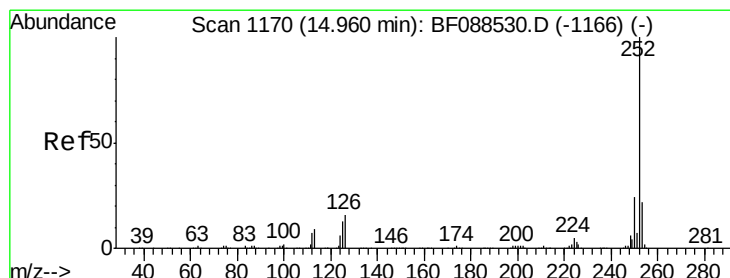
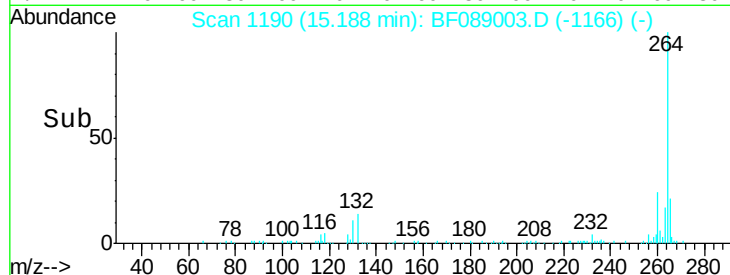
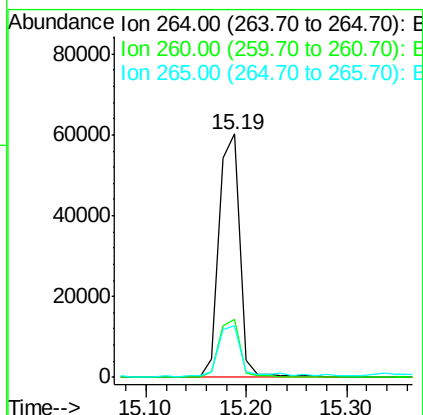
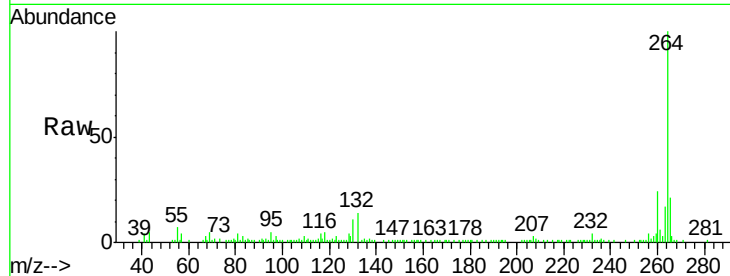




#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.19 min Scan# 1190
 Delta R.T. -0.02 min
 Lab File: BF089003.D
 Acq: 14 Jul 2016 23:51

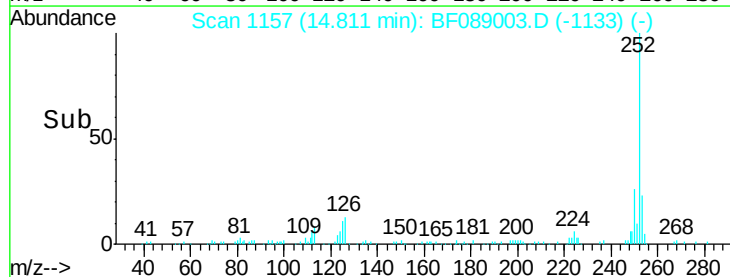
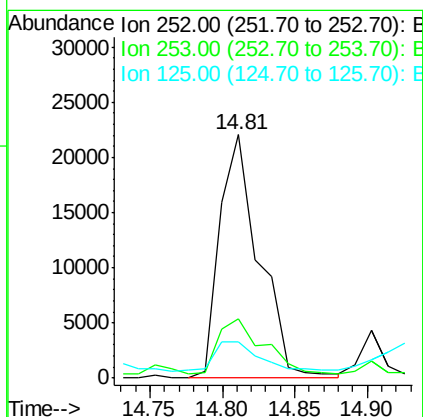
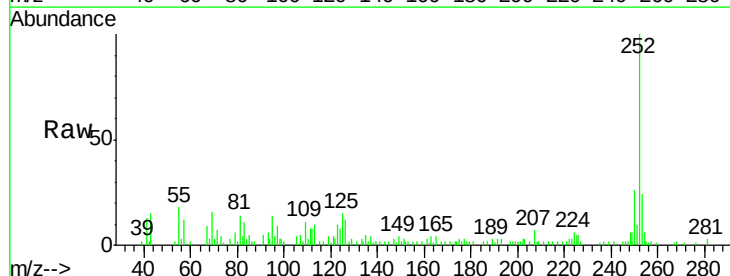
Instrument :
 BNA_F
 ClientSampleId :
 D8-B1(0-5)C

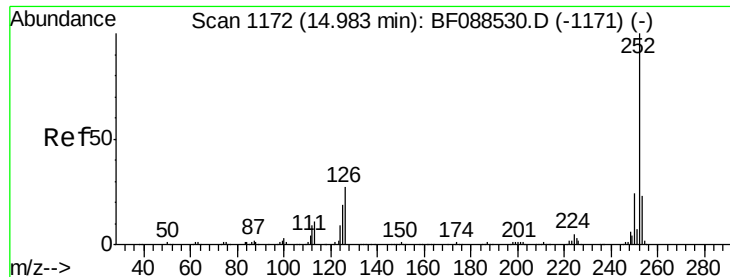
Tgt Ion: 264 Resp: 86643
 Ion Ratio Lower Upper
 264 100
 260 23.9 19.2 28.8
 265 21.3 16.9 25.3



#87
 Benzo(b)fluoranthene
 Concen: 7.67 ng
 RT: 14.81 min Scan# 1157
 Delta R.T. -0.02 min
 Lab File: BF089003.D
 Acq: 14 Jul 2016 23:51

Tgt Ion: 252 Resp: 41697
 Ion Ratio Lower Upper
 252 100
 253 24.2 17.4 26.2
 125 14.8 7.1 10.7#





#88

Benzo(k)fluoranthene

Concen: 8.81 ng

RT: 14.81 min Scan# 1157

Delta R.T. -0.06 min

Lab File: BF089003.D

Acq: 14 Jul 2016 23:51

Instrument :

BNA_F

ClientSampleId :

D8-B1(0-5)C

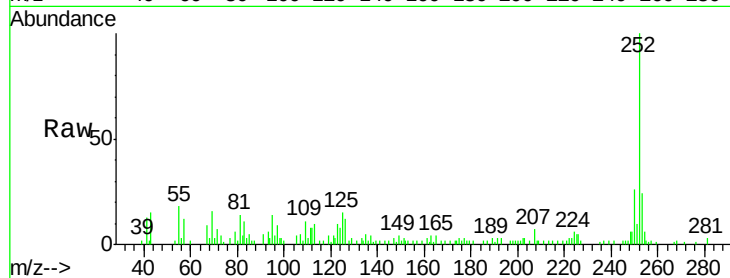
Tgt Ion:252 Resp: 41697

Ion Ratio Lower Upper

252 100

253 24.2 18.0 27.0

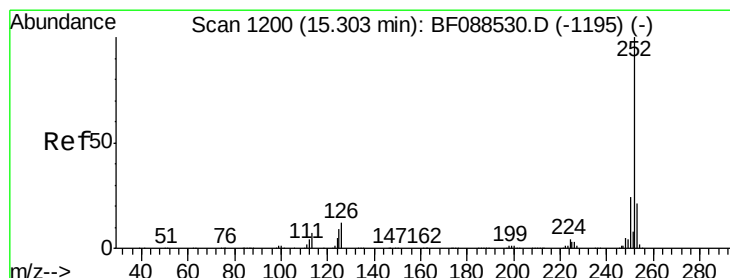
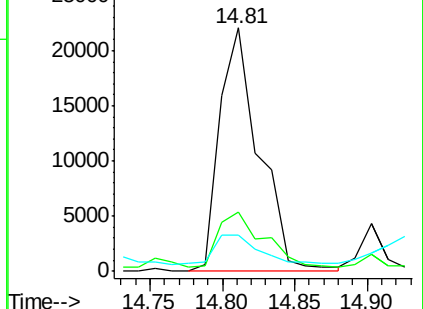
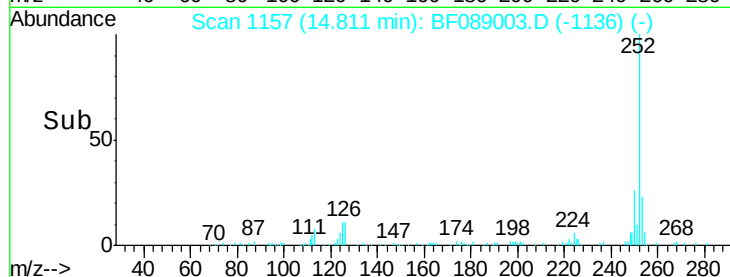
125 14.8 11.2 16.8



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



#89

Benzo(a)pyrene

Concen: 4.24 ng

RT: 15.12 min Scan# 1184

Delta R.T. -0.05 min

Lab File: BF089003.D

Acq: 14 Jul 2016 23:51

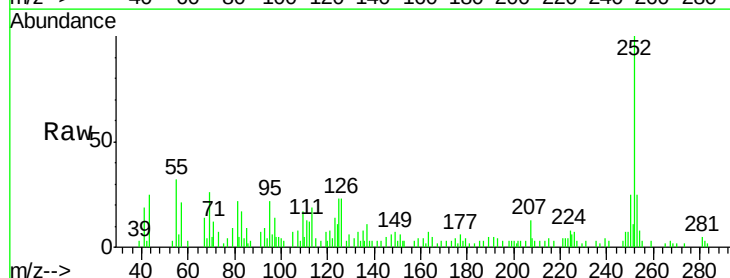
Tgt Ion:252 Resp: 19512

Ion Ratio Lower Upper

252 100

253 24.9 17.9 26.9

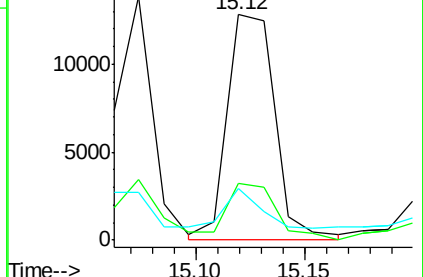
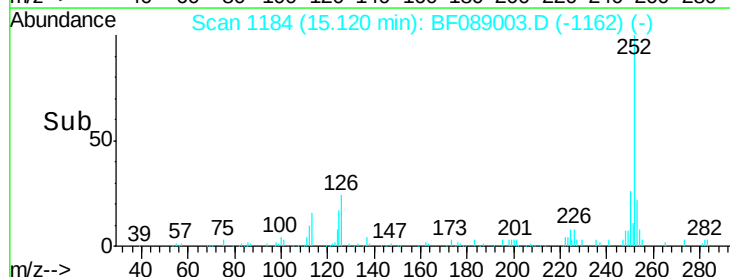
125 22.9 12.5 18.7#

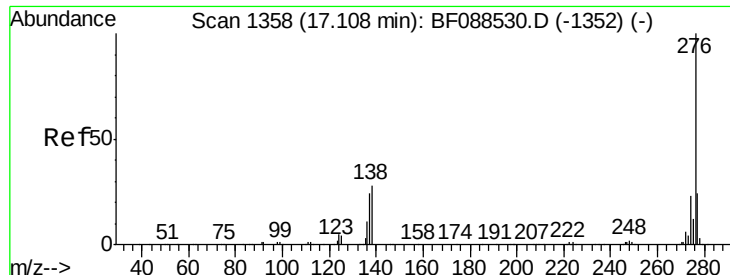


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#91

Benzo(g,h,i)perylene

Concen: 3.00 ng

RT: 16.83 min Scan# 1334

Delta R.T. -0.06 min

Lab File: BF089003.D

Acq: 14 Jul 2016 23:51

Instrument :

BNA_F

ClientSampleId :

D8-B1(0-5)C

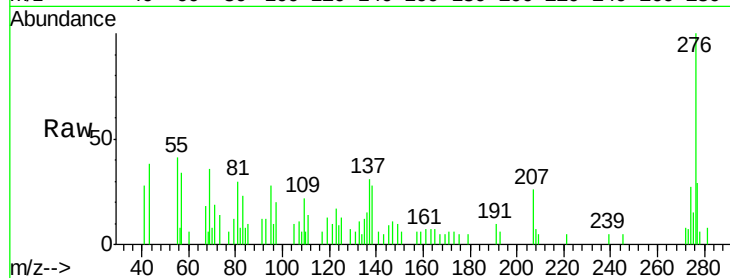
Tgt Ion: 276 Resp: 11930

Ion Ratio Lower Upper

276 100

277 28.6 18.9 28.3#

138 28.3 21.4 32.2



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

