

Data Path : Z:\HPCHEM1\BNA F\DATA\BF071616\
 Data File : BF089068.D
 Acq On : 16 Jul 2016 21:43
 Operator : UM/SJ
 Sample : H4018-14
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Jul 18 01:17:51 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	6.66	152	50208	20.00	ng	-0.05
21) Naphthalene-d8	7.95	136	219637	20.00	ng	-0.05
38) Acenaphthene-d10	9.70	164	80256	20.00	ng	-0.05
63) Phenanthrene-d10	11.19	188	122219	20.00	ng	-0.03
75) Chrysene-d12	13.82	240	100693	20.00	ng	-0.03
86) Perylene-d12	15.19	264	69190	20.00	ng	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.27	112	332754	99.33	ng	-0.02
7) Phenol-d6	6.33	99	466670	107.81	ng	-0.02
23) Nitrobenzene-d5	7.23	82	230539	55.01	ng	-0.05
41) 2,4,6-Tribromophenol	10.49	330	50536	67.81	ng	-0.05
44) 2-Fluorobiphenyl	9.04	172	450439	88.65	ng	-0.03
78) Terphenyl-d14	12.78	244	291825	64.55	ng	-0.02

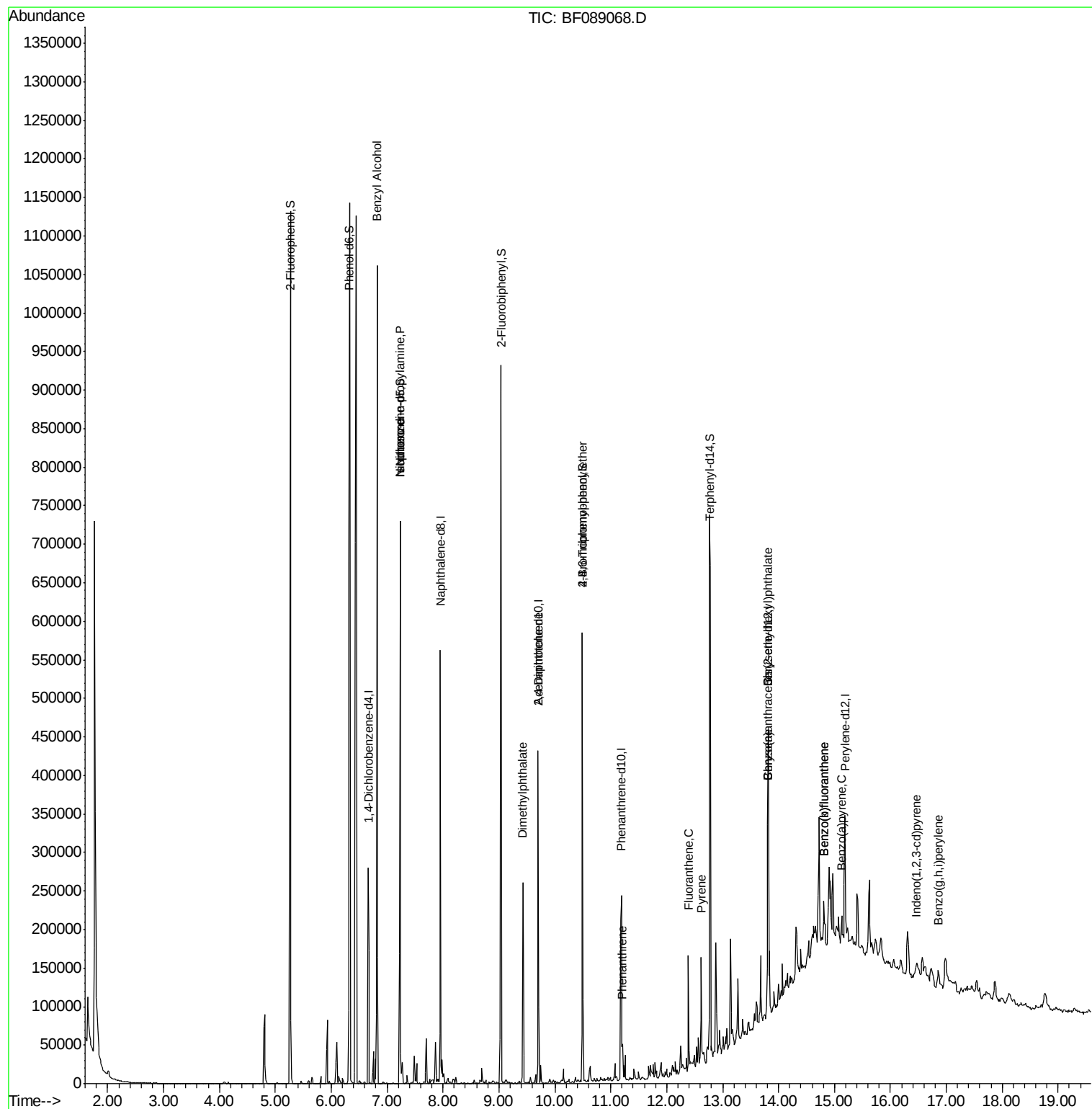
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
15) Benzyl Alcohol	6.82	79	7509	2.36	ng	# 48
19) n-Nitroso-di-n-propylamine	7.23	70	31987	11.00	ng	# 75
25) Isophorone	7.23	82	189385	24.39	ng	# 65
49) Dimethylphthalate	9.43	163	89415	15.64	ng	# 99
56) 2,4-Dinitrotoluene	9.70	165	10360	6.25	ng	# 36
66) 4-Bromophenyl-phenylether	10.49	248	3835	3.11	ng	# 1
70) Phenanthrene	11.21	178	25548	3.82	ng	# 98
74) Fluoranthene	12.39	202	54337	8.02	ng	# 98
77) Pyrene	12.62	202	50696	5.94	ng	# 99
80) Benzo(a)anthracene	13.81	228	30029	4.63	ng	# 91
82) Chrysene	13.81	228	30029	4.68	ng	# 96
83) Bis(2-ethylhexyl)phthalate	13.82	149	31974	7.35	ng	# 93
85) Indeno(1,2,3-cd)pyrene	16.47	276	10673	2.16	ng	# 100
87) Benzo(b)fluoranthene	14.81	252	36045	8.30	ng	# 89
88) Benzo(k)fluoranthene	14.81	252	36045	9.54	ng	# 94
89) Benzo(a)pyrene	15.13	252	15912	4.33	ng	# 93
91) Benzo(a,h,i)perylene	16.86	276	9827	3.09	ng	# 93

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

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.66 min Scan# 444

Delta R.T. -0.05 min

Lab File: BF089068.D

Acq: 16 Jul 2016 21:43

Instrument :

BNA_F

ClientSampleId :

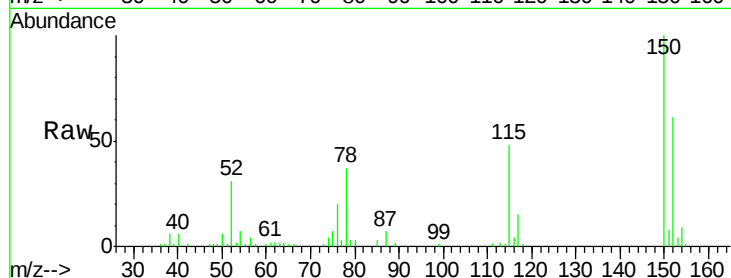
Tot Ion:152 Resp: 50208

Ion Ratio Lower Upper

152 100

150 163.3 123.8 185.6

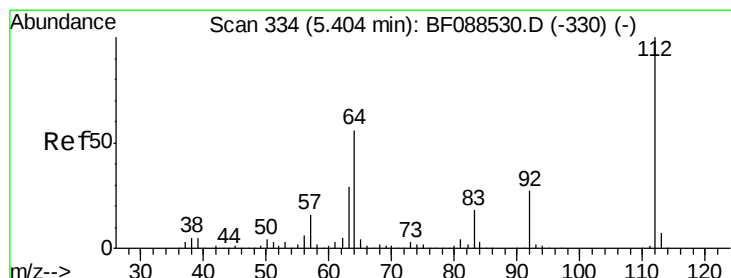
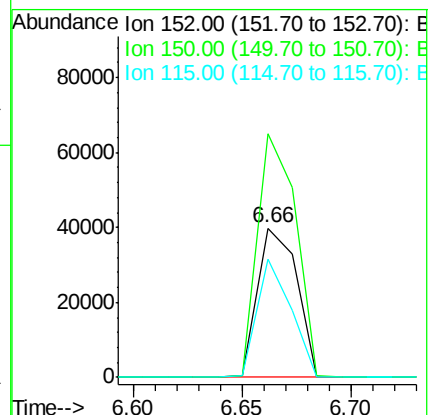
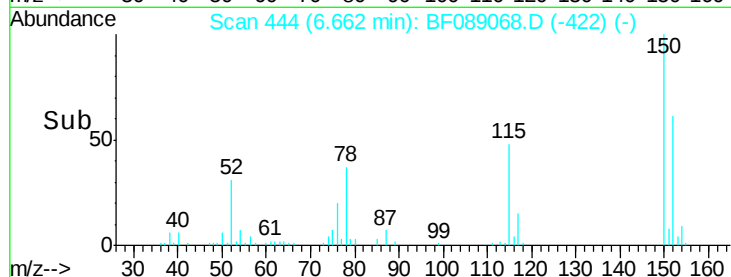
115 79.0 39.6 59.4#



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: 99.33 ng

RT: 5.27 min Scan# 322

Delta R.T. -0.02 min

Lab File: BF089068.D

Acq: 16 Jul 2016 21:43

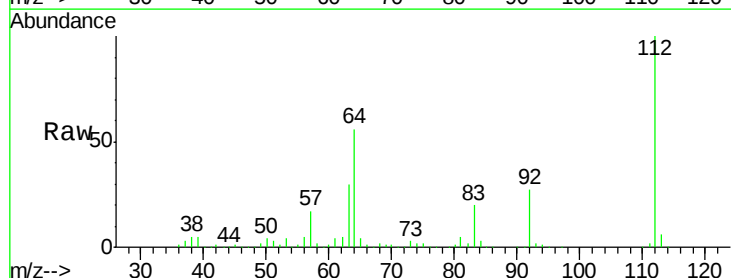
Tgt Ion:112 Resp: 332754

Ion Ratio Lower Upper

112 100

64 55.9 42.2 63.2

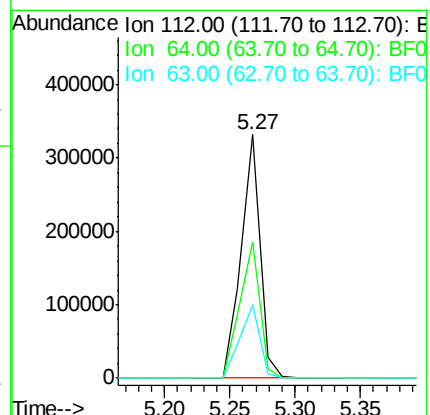
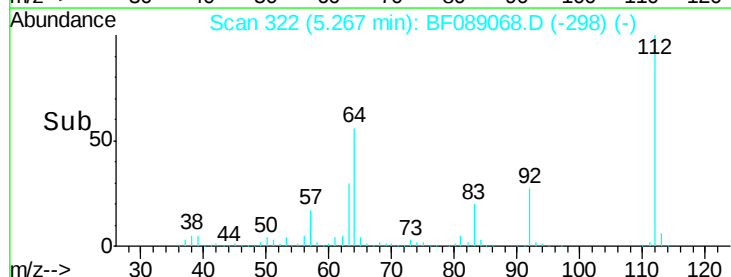
63 29.9 21.8 32.8



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: 107.81 ng

RT: 6.33 min Scan# 415

Delta R.T. -0.02 min

Lab File: BF089068.D

Acq: 16 Jul 2016 21:43

Instrument :

BNA_F

ClientSampleId :

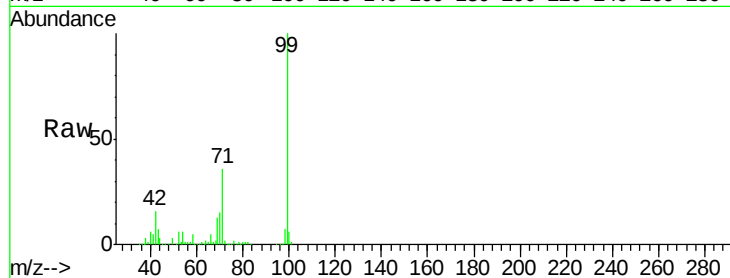
Tot Ion: 99 Resp: 466670

Ion Ratio Lower Upper

99 100

42 15.6 12.2 18.2

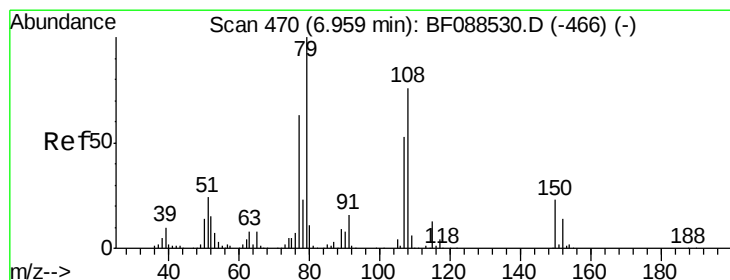
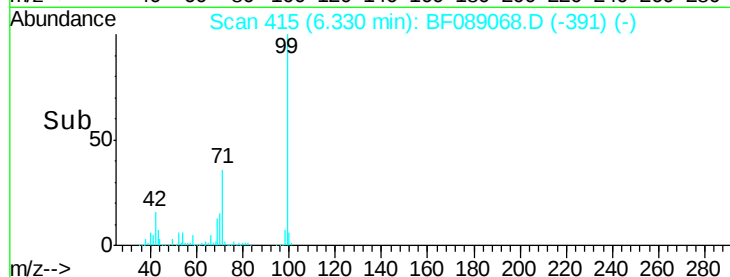
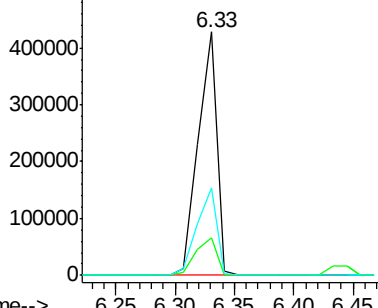
71 35.8 23.4 35.0#



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



#15

Benzyl Alcohol

Concen: 2.36 ng

RT: 6.82 min Scan# 458

Delta R.T. -0.03 min

Lab File: BF089068.D

Acq: 16 Jul 2016 21:43

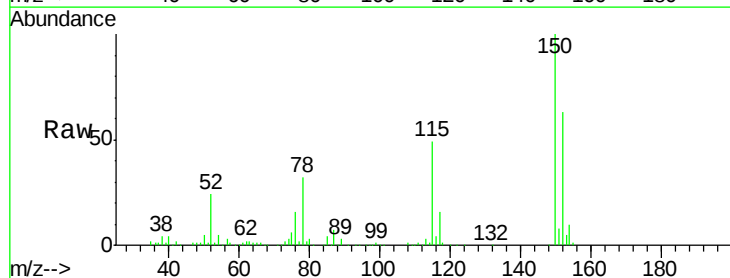
Tgt Ion: 79 Resp: 7509

Ion Ratio Lower Upper

79 100

108 28.4 65.0 97.6#

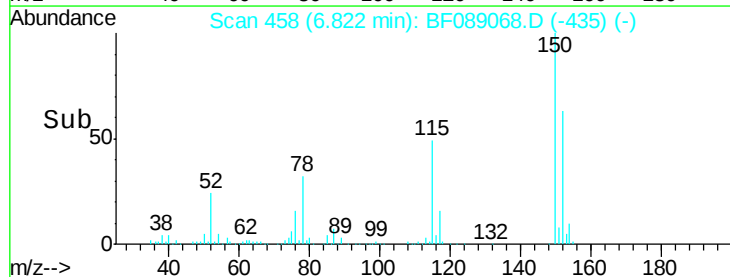
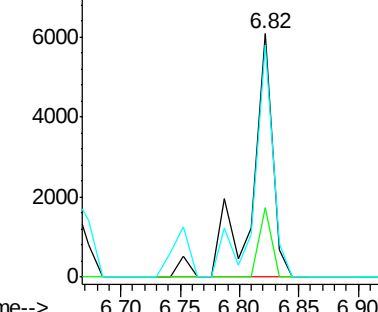
77 95.3 50.3 75.5#

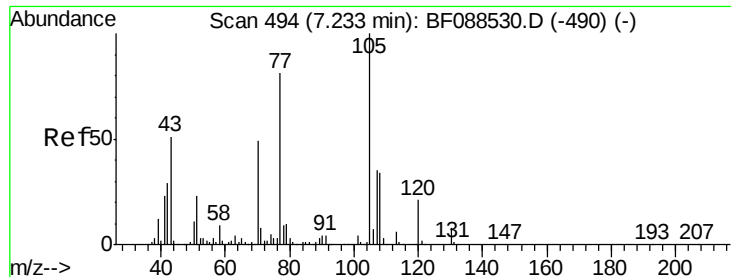


Abundance Ion 79.00 (78.70 to 79.70): BF0

Ion 108.00 (107.70 to 108.70): BF0

Ion 77.00 (76.70 to 77.70): BF0

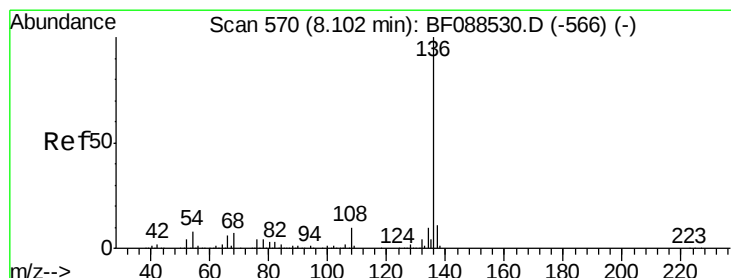
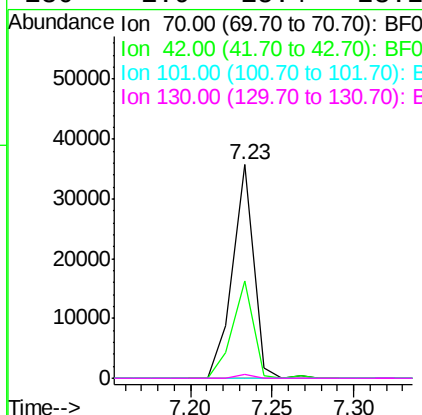
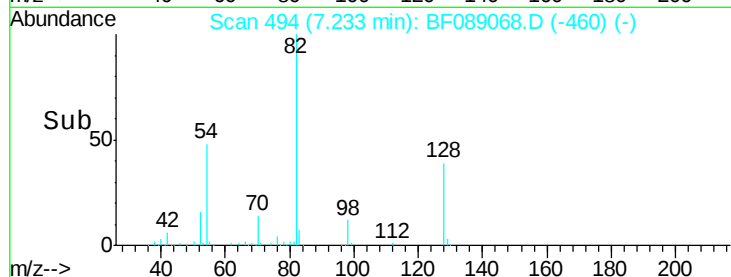
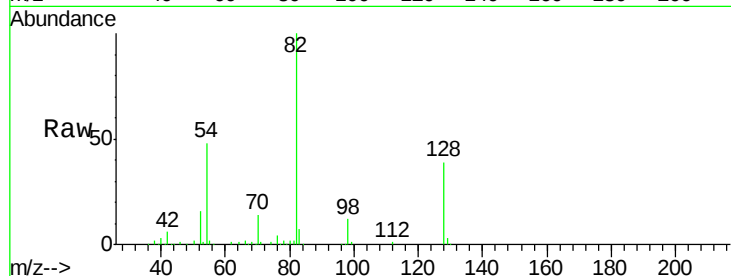




#19
n-Nitroso-di-n-propylamine
Concen: 11.00 ng
RT: 7.23 min Scan# 494
Delta R.T. 0.09 min
Lab File: BF089068.D
Acq: 16 Jul 2016 21:43

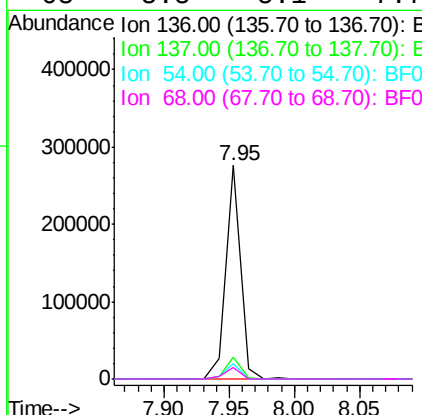
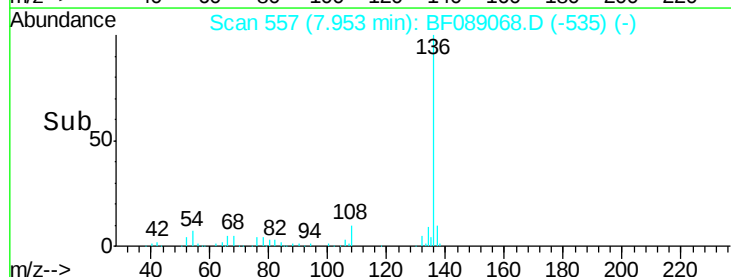
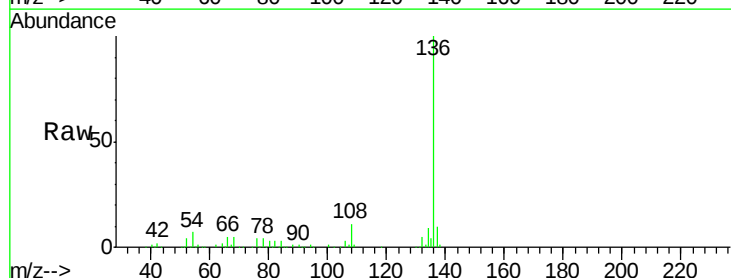
Instrument :
BNA_F
ClientSampled :

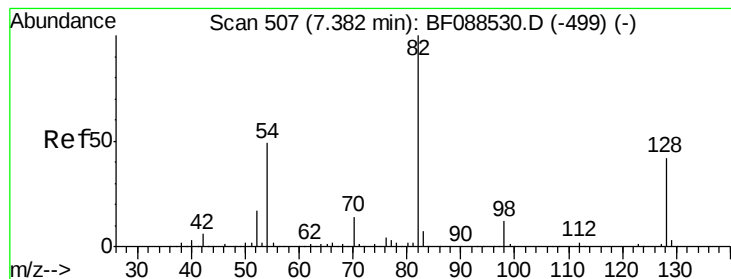
Tot Ion: 70 Resp: 31987
Ion Ratio Lower Upper
70 100
42 45.5 49.6 74.4#
101 0.0 7.1 10.7#
130 1.9 15.4 23.2#



#21
Naphthalene-d8
Concen: 20.00 ng
RT: 7.95 min Scan# 557
Delta R.T. -0.05 min
Lab File: BF089068.D
Acq: 16 Jul 2016 21:43

Tgt Ion:136 Resp: 219637
Ion Ratio Lower Upper
136 100
137 10.5 9.1 13.7
54 7.2 6.6 10.0
68 5.5 5.1 7.7





#23

Nitrobenzene-d5

Concen: 55.01 ng

RT: 7.23 min Scan# 494

Delta R.T. -0.05 min

Lab File: BF089068.D

Acq: 16 Jul 2016 21:43

Instrument :

BNA_F

ClientSampleId :

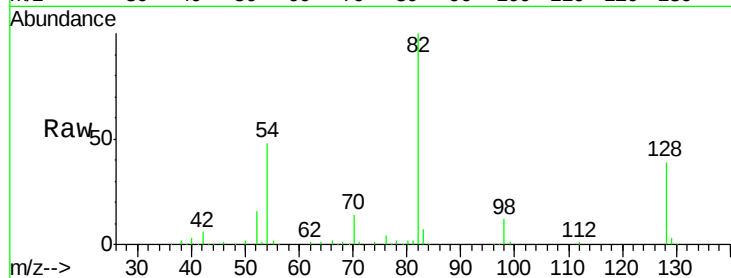
Tot Ion: 82 Resp: 230539

Ion Ratio Lower Upper

82 100

128 39.5 35.9 53.9

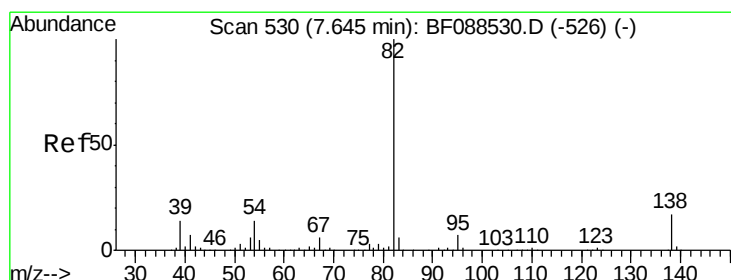
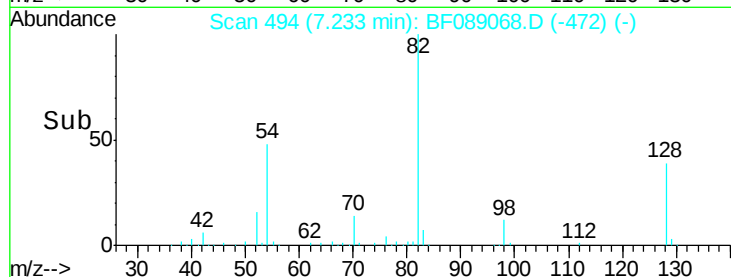
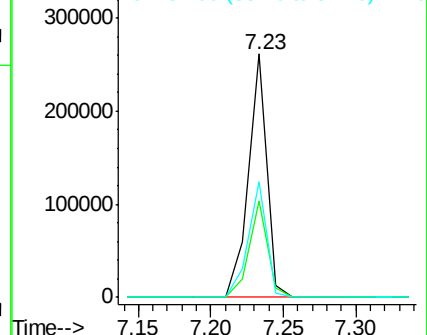
54 47.7 40.9 61.3



Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): BF0

Ion 54.00 (53.70 to 54.70): BF0



#25

Isophorone

Concen: 24.39 ng

RT: 7.23 min Scan# 494

Delta R.T. -0.31 min

Lab File: BF089068.D

Acq: 16 Jul 2016 21:43

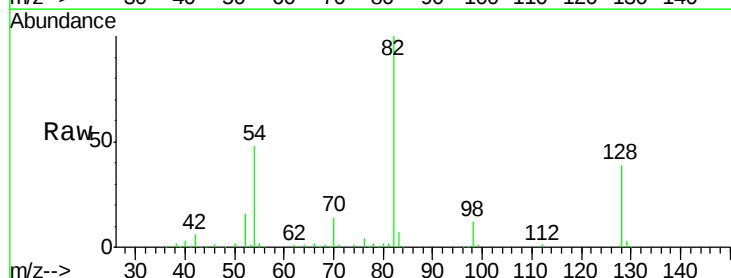
Tgt Ion: 82 Resp: 189385

Ion Ratio Lower Upper

82 100

95 0.0 5.4 8.2#

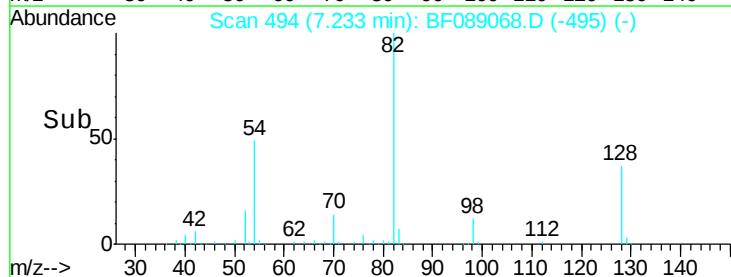
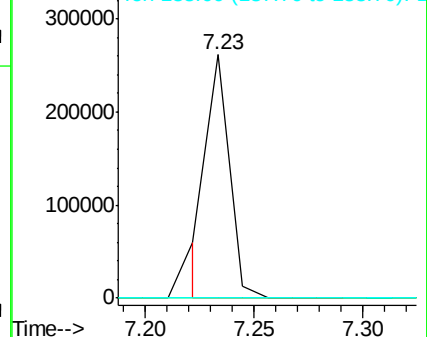
138 0.0 14.6 21.8#

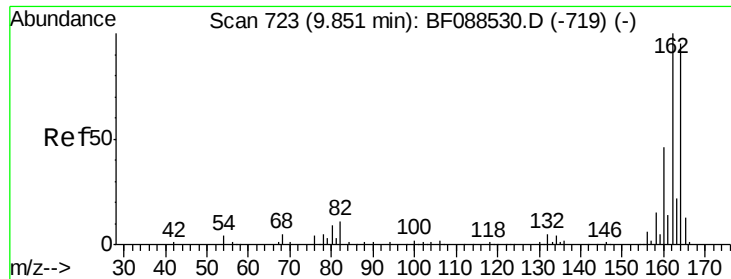


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 95.00 (94.70 to 95.70): BF0

Ion 138.00 (137.70 to 138.70): BF0





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.70 min Scan# 710

Delta R.T. -0.05 min

Lab File: BF089068.D

Acq: 16 Jul 2016 21:43

Instrument :

BNA_F

ClientSampleId :

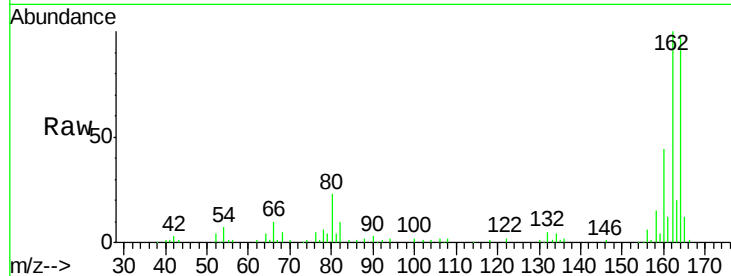
Tot Ion:164 Resp: 80256

Ion Ratio Lower Upper

164 100

162 103.0 85.4 128.2

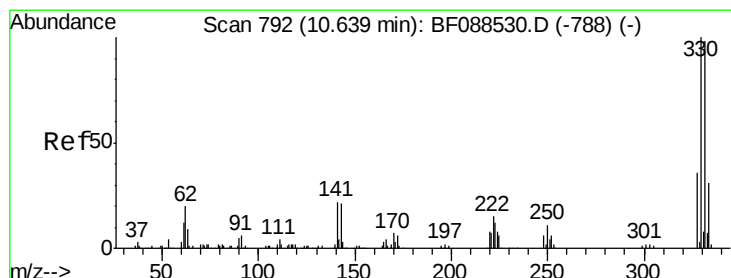
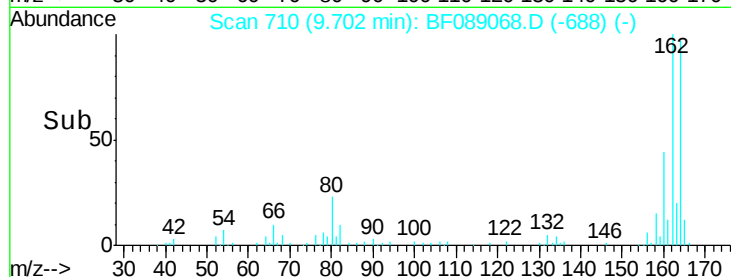
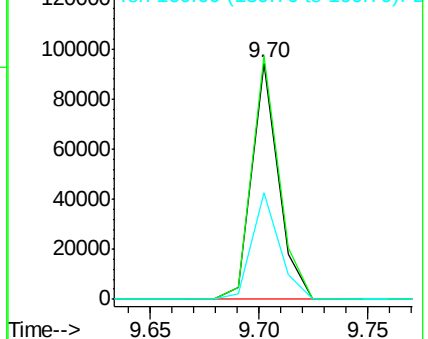
160 45.1 39.5 59.3



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: 67.81 ng

RT: 10.49 min Scan# 779

Delta R.T. -0.05 min

Lab File: BF089068.D

Acq: 16 Jul 2016 21:43

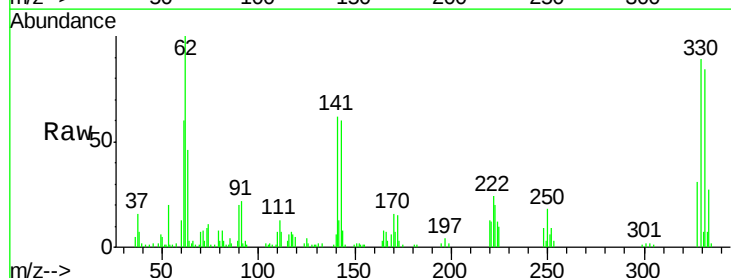
Tgt Ion:330 Resp: 50536

Ion Ratio Lower Upper

330 100

332 96.0 0.0 0.0#

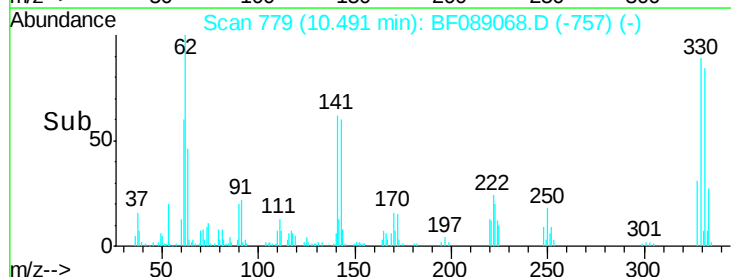
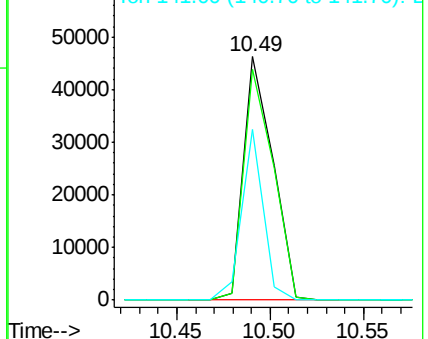
141 51.7 0.0 0.0#

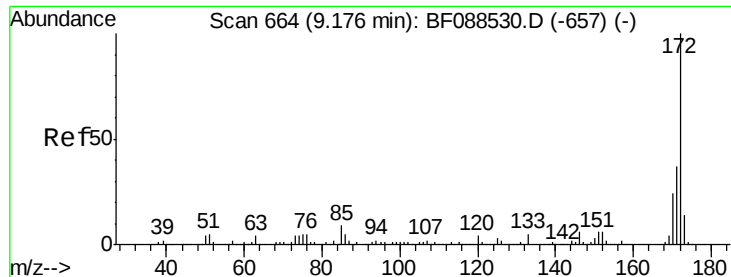


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





#44

2-Fluorobiphenyl

Concen: 88.65 ng

RT: 9.04 min Scan# 652

Delta R.T. -0.03 min

Lab File: BF089068.D

Acq: 16 Jul 2016 21:43

Instrument :

BNA_F

ClientSampled :

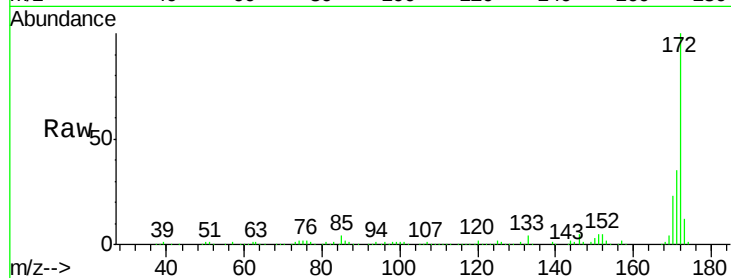
Tot Ion:172 Resp: 450439

Ion Ratio Lower Upper

172 100

171 35.4 28.6 43.0

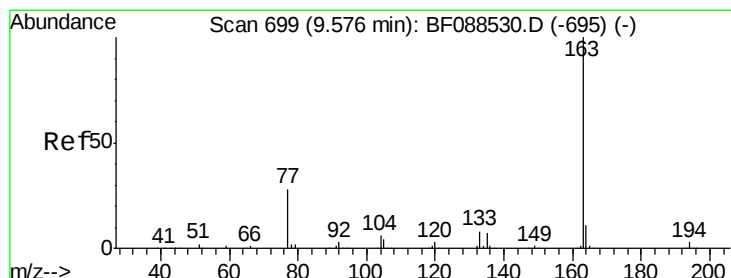
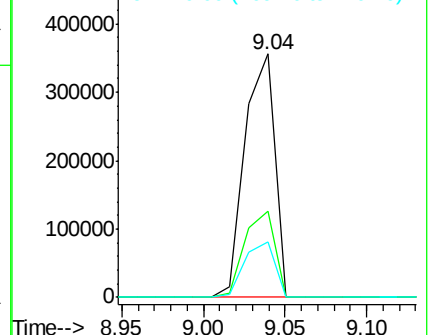
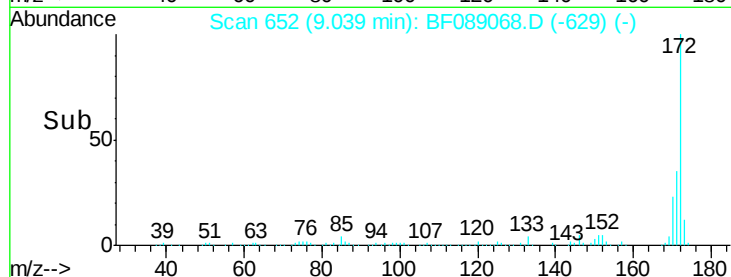
170 22.7 19.2 28.8



Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#49

Dimethylphthalate

Concen: 15.64 ng

RT: 9.43 min Scan# 686

Delta R.T. -0.06 min

Lab File: BF089068.D

Acq: 16 Jul 2016 21:43

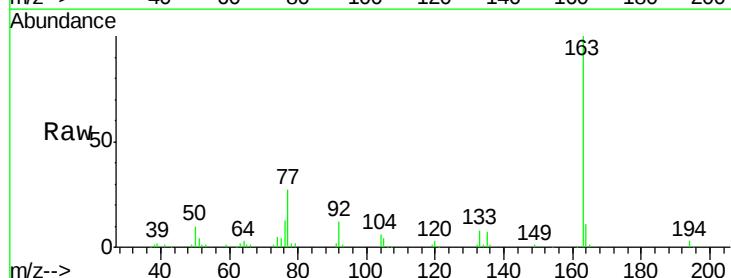
Tgt Ion:163 Resp: 89415

Ion Ratio Lower Upper

163 100

194 2.9 2.8 4.2

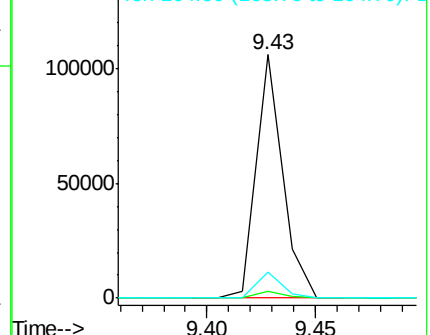
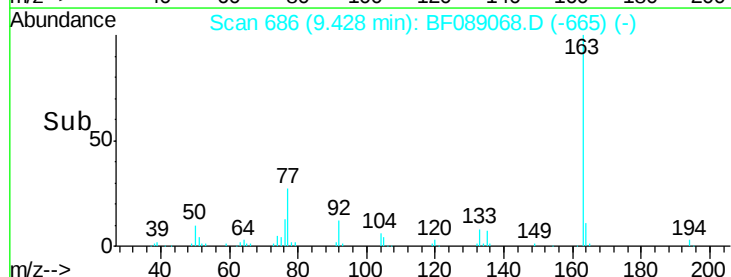
164 10.6 8.3 12.5

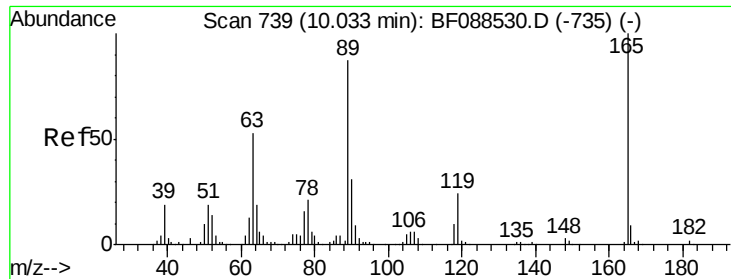


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E





#56

2,4-Dinitrotoluene

Concen: 6.25 ng

RT: 9.70 min Scan# 710

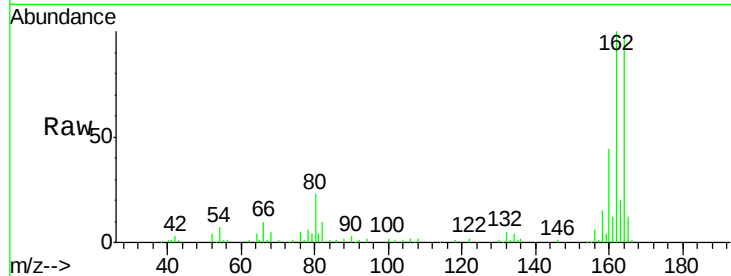
Delta R.T. -0.24 min

Lab File: BF089068.D

Acq: 16 Jul 2016 21:43

Instrument :
BNA_F
ClientSampleId :

Tot Ion:165	Resp:	10360
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#

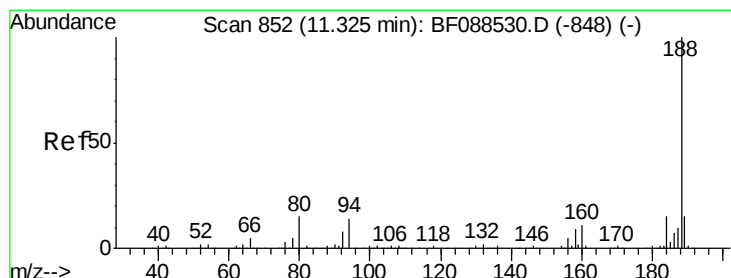
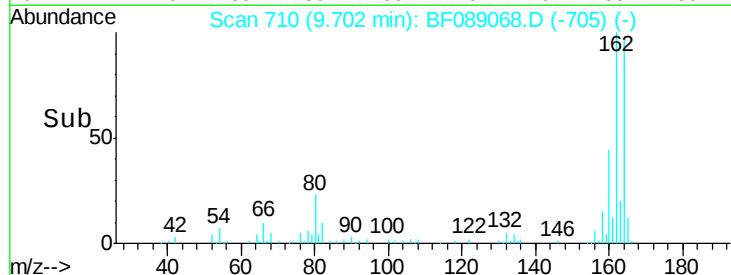
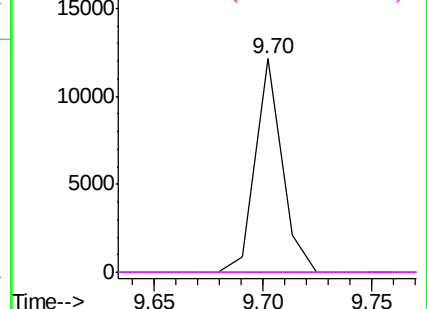


Abundance Ion 165.00 (164.70 to 165.70): E

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

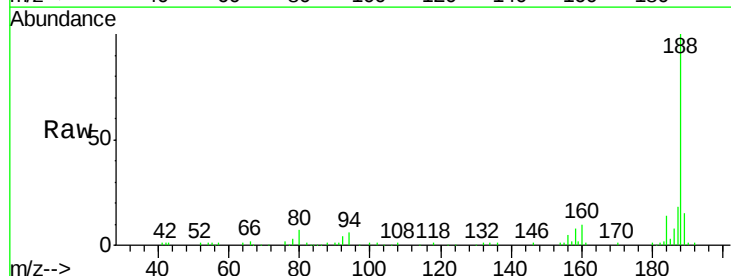
RT: 11.19 min Scan# 840

Delta R.T. -0.03 min

Lab File: BF089068.D

Acq: 16 Jul 2016 21:43

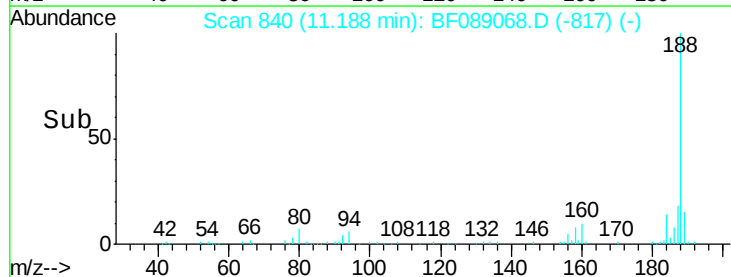
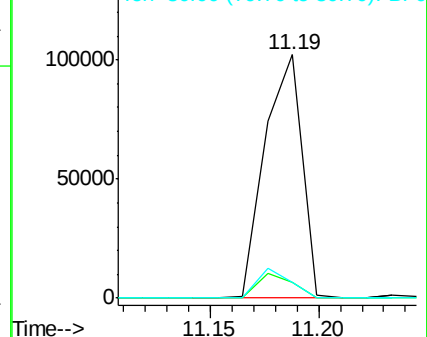
Tgt Ion:188	Resp:	122219
Ion Ratio	Lower	Upper
188	100	
94	6.3	9.0 13.6#
80	6.7	10.0 15.0#

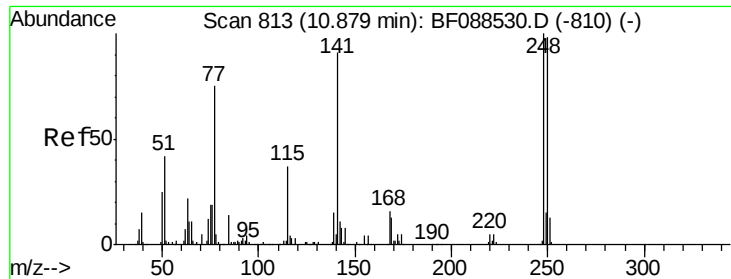


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0

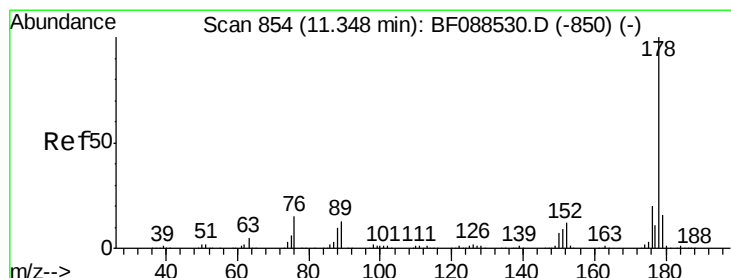
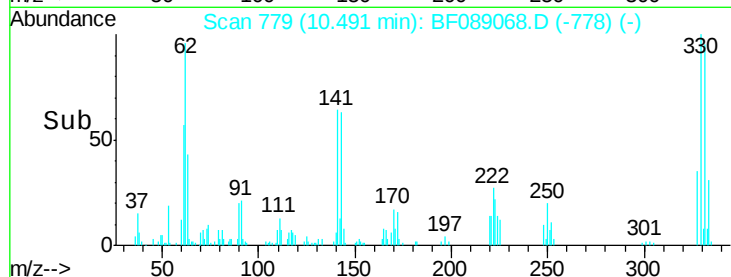
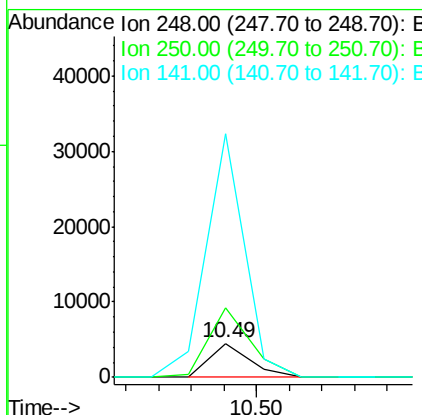
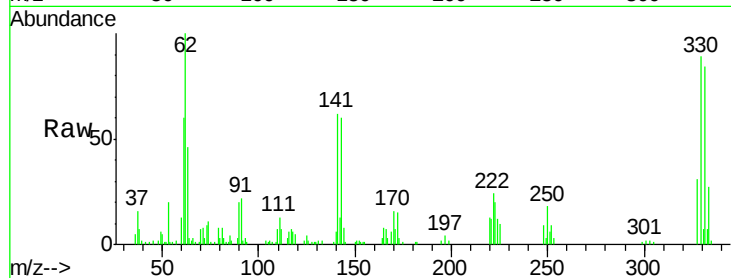




#66
 4-Bromophenyl-phenylether
 Concen: 3.11 ng
 RT: 10.49 min Scan# 779
 Delta R.T. -0.29 min
 Lab File: BF089068.D
 Acq: 16 Jul 2016 21:43

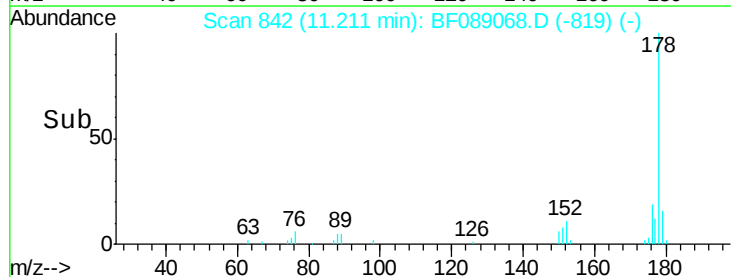
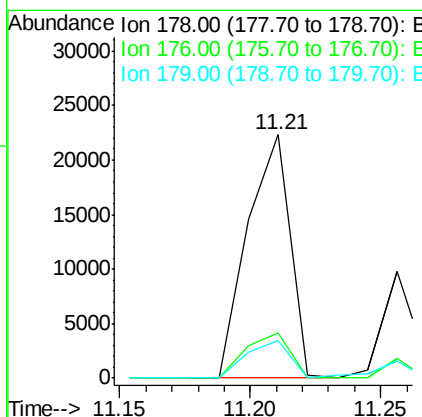
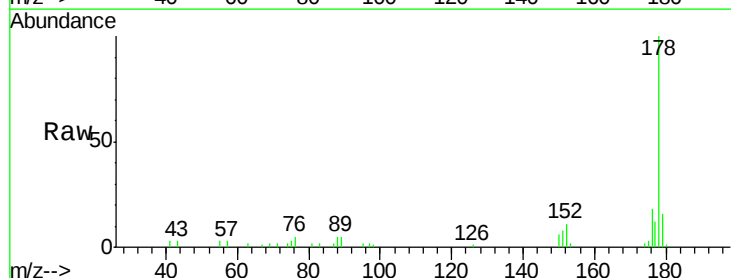
Instrument :
 BNA_F
 ClientSampleId :

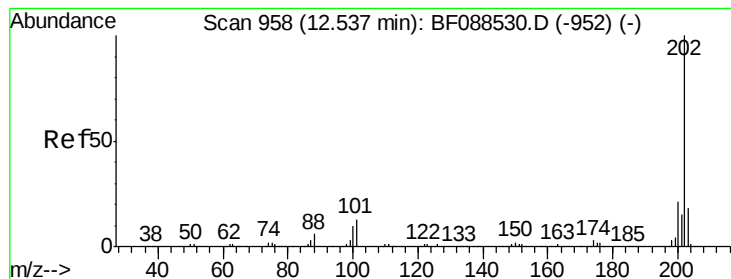
Tot Ion:248 Resp: 3835
 Ion Ratio Lower Upper
 248 100
 250 201.9 77.1 115.7#
 141 711.2 50.6 76.0#



#70
 Phenanthrene
 Concen: 3.82 ng
 RT: 11.21 min Scan# 842
 Delta R.T. -0.03 min
 Lab File: BF089068.D
 Acq: 16 Jul 2016 21:43

Tgt Ion:178 Resp: 25548
 Ion Ratio Lower Upper
 178 100
 176 18.5 15.8 23.6
 179 15.5 13.0 19.4





#74

Fluoranthene

Concen: 8.02 ng

RT: 12.39 min Scan# 945

Delta R.T. -0.03 min

Lab File: BF089068.D

Acq: 16 Jul 2016 21:43

Instrument :

BNA_F

ClientSampleId :

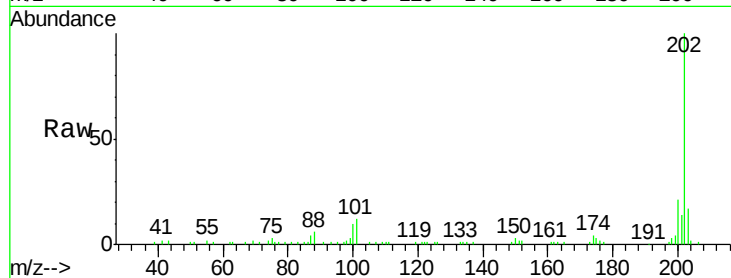
Tot Ion:202 Resp: 54337

Ion Ratio Lower Upper

202 100

101 12.1 0.0 33.1

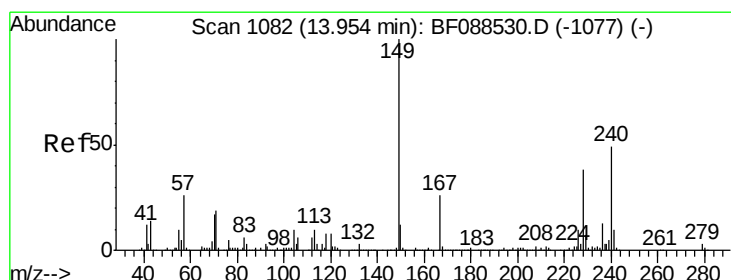
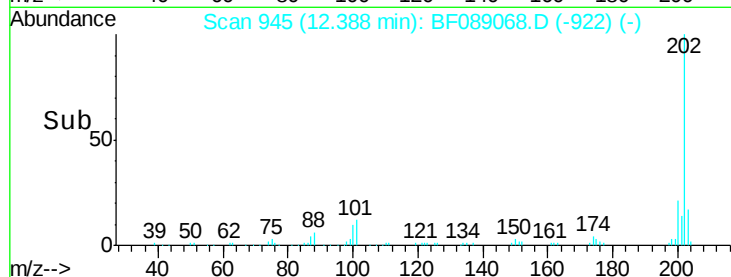
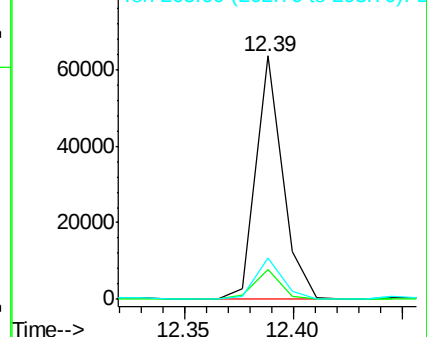
203 17.2 0.0 38.1



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: BF089068.D

Acq: 16 Jul 2016 21:43

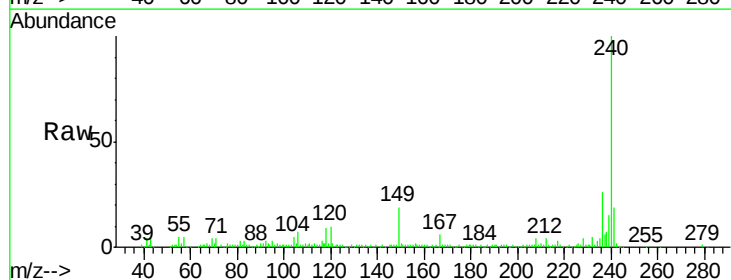
Tgt Ion:240 Resp: 100693

Ion Ratio Lower Upper

240 100

120 9.7 6.8 10.2

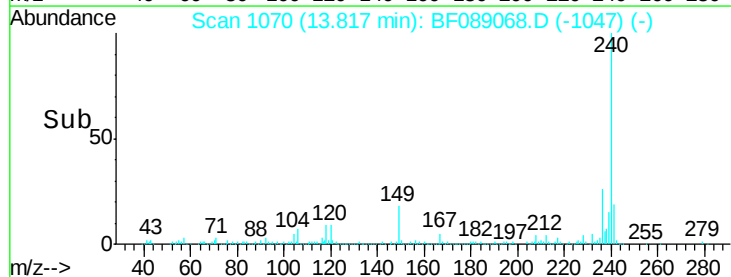
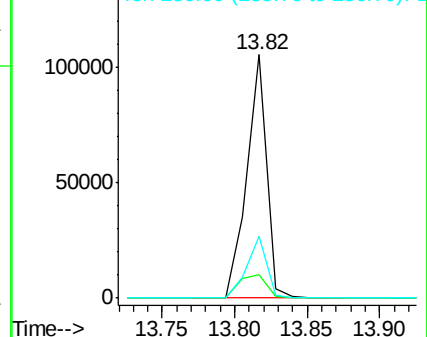
236 25.6 20.2 30.2

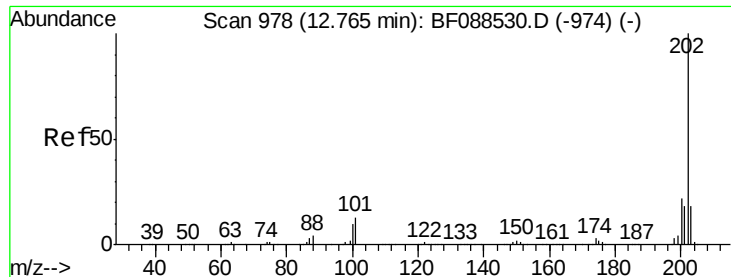


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

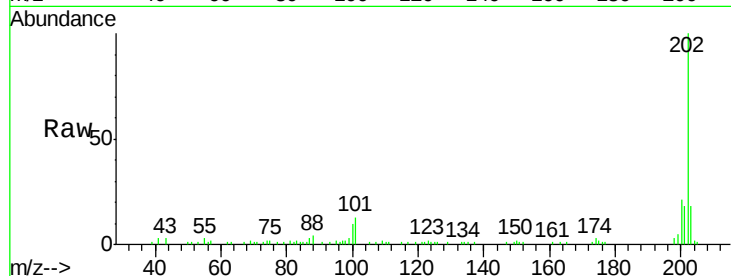




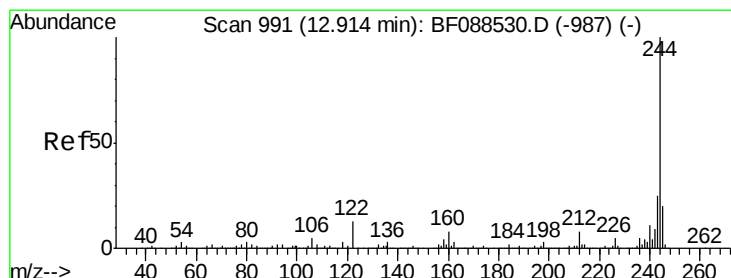
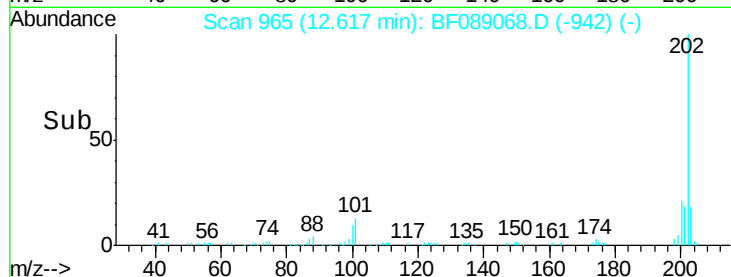
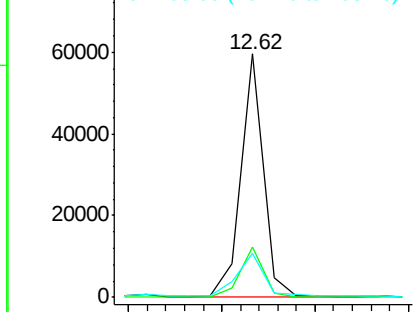
#77
Pvrene
Concen: 5.94 ng
RT: 12.62 min Scan# 965
Delta R.T. -0.03 min
Lab File: BF089068.D
Acq: 16 Jul 2016 21:43

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
202	100		
200	20.9	17.4	26.2
203	17.8	14.5	21.7

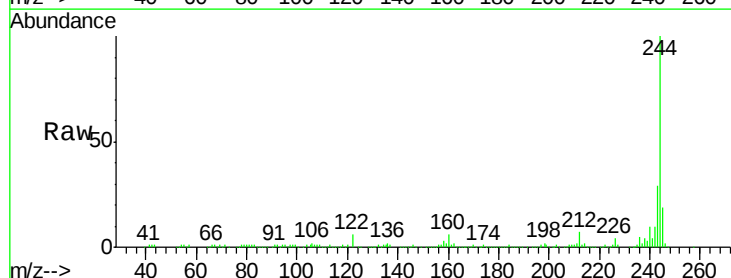


Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E

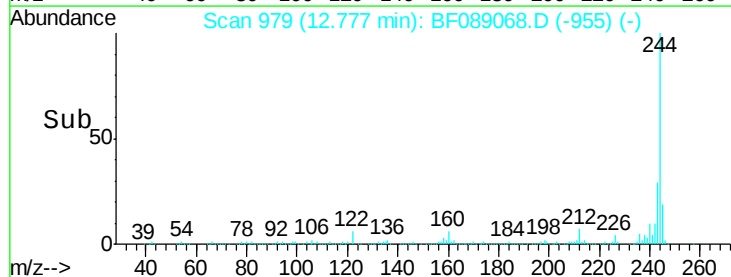
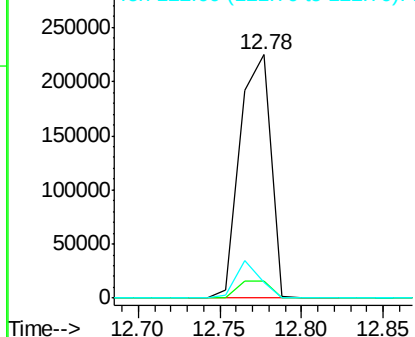


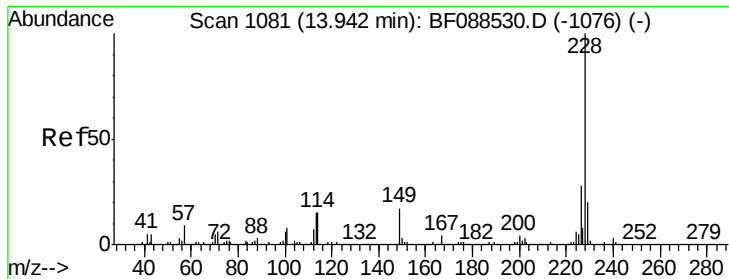
#78
Terphenyl-d14
Concen: 64.55 ng
RT: 12.78 min Scan# 979
Delta R.T. -0.02 min
Lab File: BF089068.D
Acq: 16 Jul 2016 21:43

Tgt Ion	Ratio	Lower	Upper
244	100		
212	7.2	6.0	9.0
122	6.5	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: 4.63 ng

RT: 13.81 min Scan# 1069

Delta R.T. -0.03 min

Lab File: BF089068.D

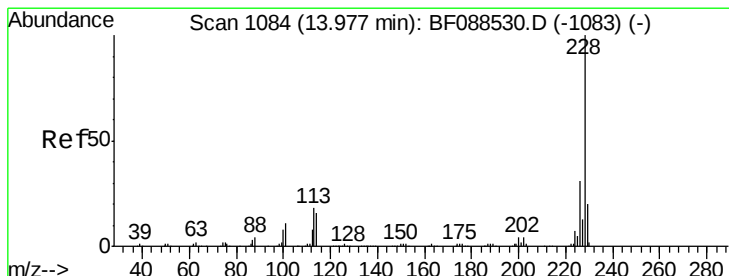
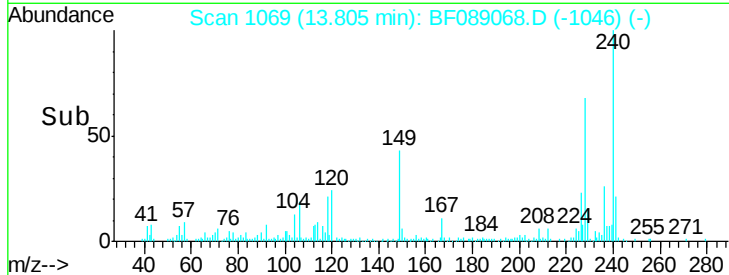
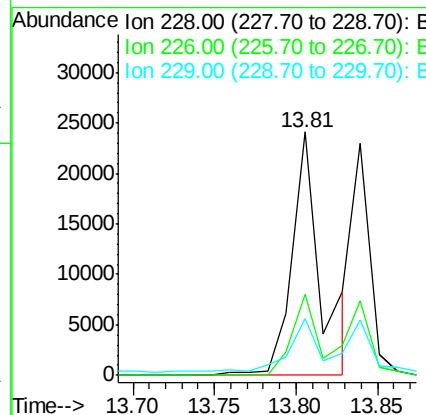
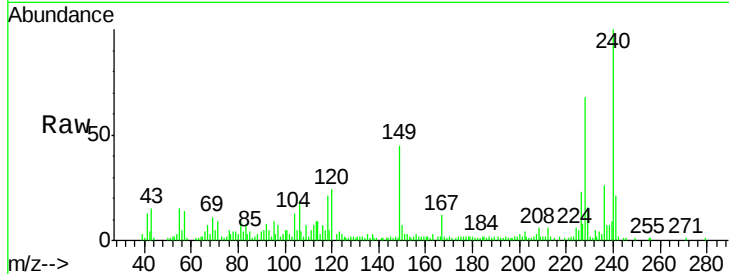
Acq: 16 Jul 2016 21:43

Instrument :

BNA_F

ClientSampleId :

Tot Ion:	228	Resp:	30029
Ion	Ratio	Lower	Upper
228	100		
226	33.2	22.3	33.5
229	23.5	16.0	24.0



#82

Chrysene

Concen: 4.68 ng

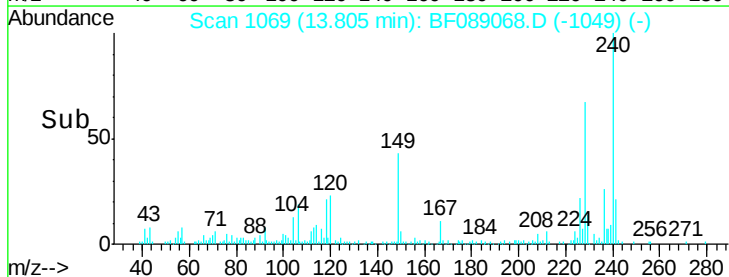
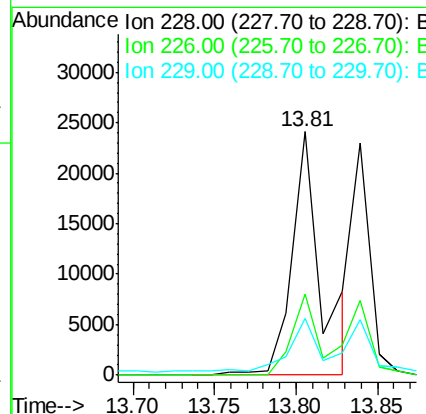
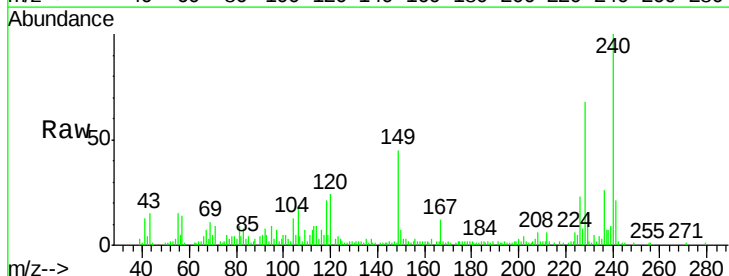
RT: 13.81 min Scan# 1069

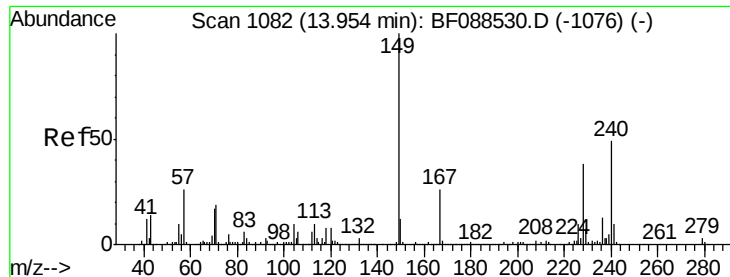
Delta R.T. -0.07 min

Lab File: BF089068.D

Acq: 16 Jul 2016 21:43

Tgt Ion:	228	Resp:	30029
Ion	Ratio	Lower	Upper
228	100		
226	33.2	25.4	38.2
229	23.5	16.3	24.5





#83

Bis(2-ethylhexyl)phthalate

Concen: 7.35 ng

RT: 13.82 min Scan# 1070

Delta R.T. -0.02 min

Lab File: BF089068.D

Acq: 16 Jul 2016 21:43

Instrument :

BNA_F

ClientSampleId :

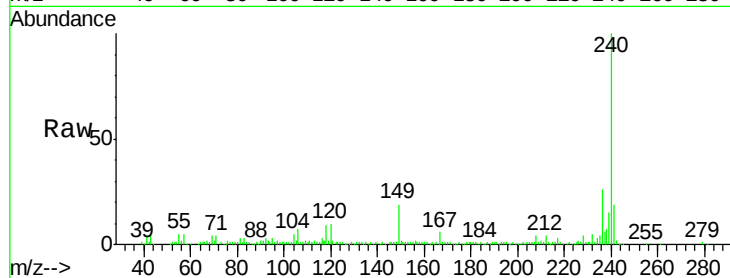
Tot Ion:149 Resp: 31974

Ion Ratio Lower Upper

149 100

167 29.4 20.5 30.7

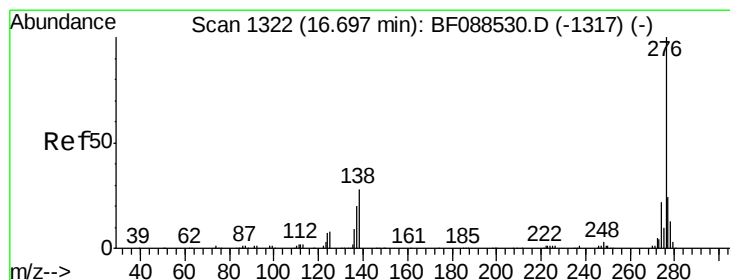
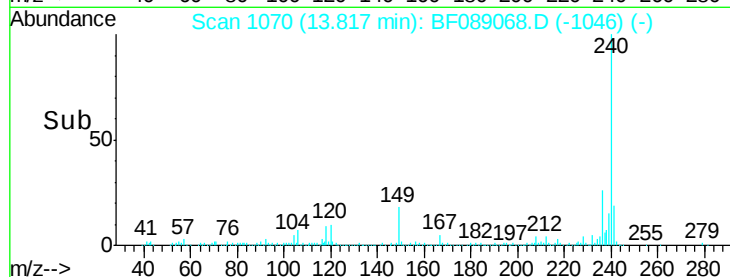
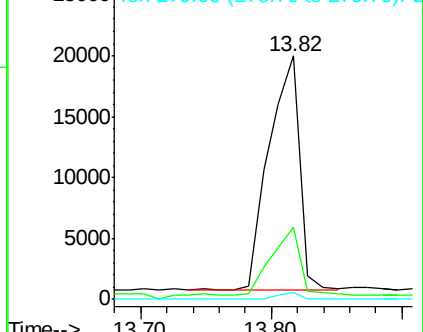
279 2.9 2.0 3.0



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: 2.16 ng

RT: 16.47 min Scan# 1302

Delta R.T. -0.03 min

Lab File: BF089068.D

Acq: 16 Jul 2016 21:43

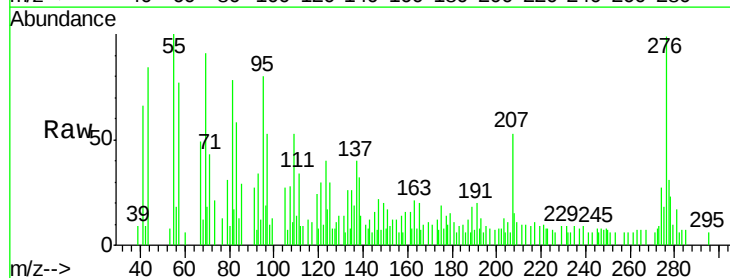
Tgt Ion:276 Resp: 10673

Ion Ratio Lower Upper

276 100

138 20.2 0.0 0.0#

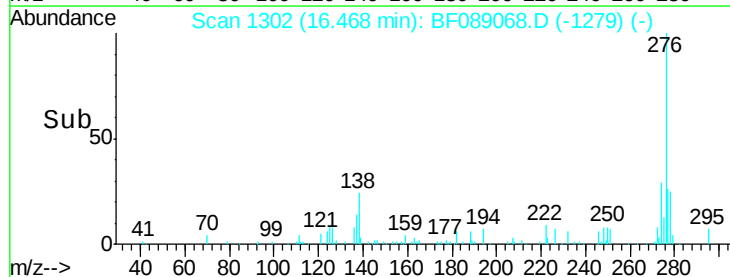
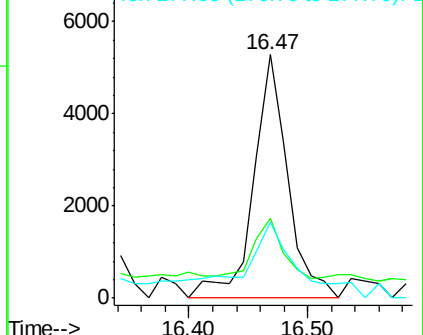
277 57.6 0.0 0.0#

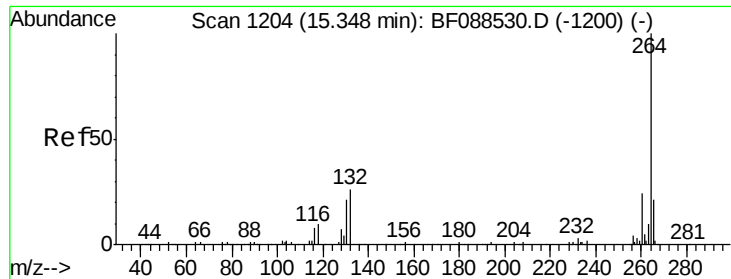


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

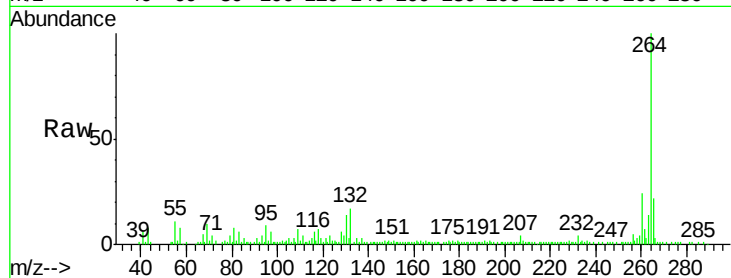




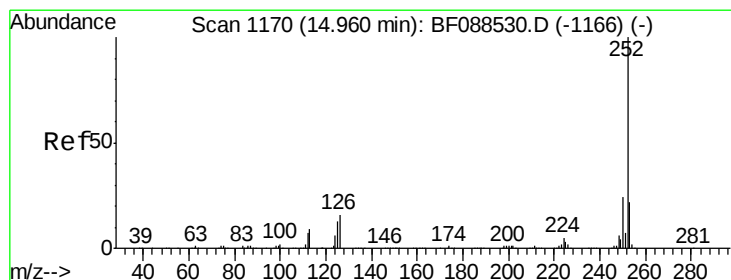
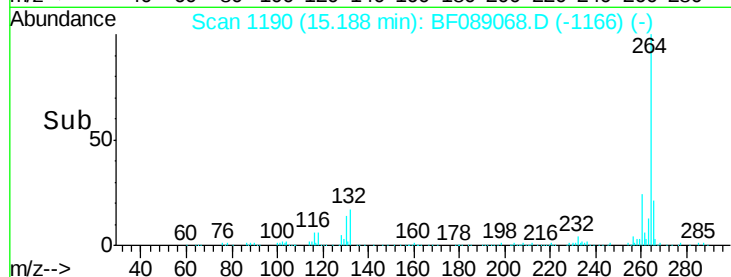
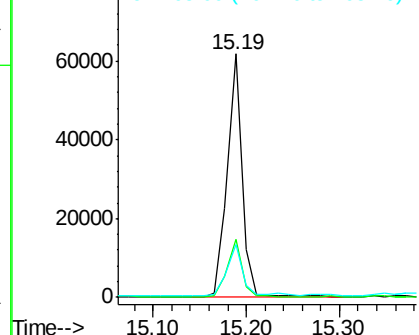
#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.19 min Scan# 1190
Delta R.T. -0.02 min
Lab File: BF089068.D
Acq: 16 Jul 2016 21:43

Instrument :
BNA_F
ClientSampleId :

Tot Ion:264 Resp: 69190
Ion Ratio Lower Upper
264 100
260 23.7 19.2 28.8
265 21.7 16.9 25.3

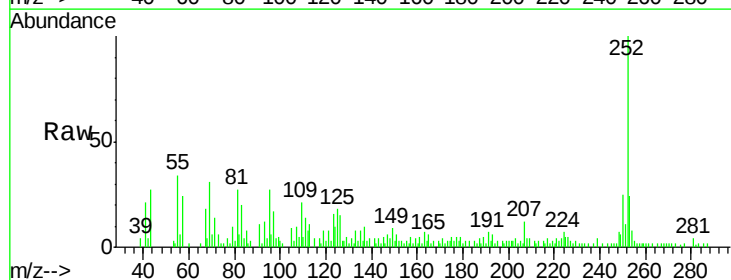


Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

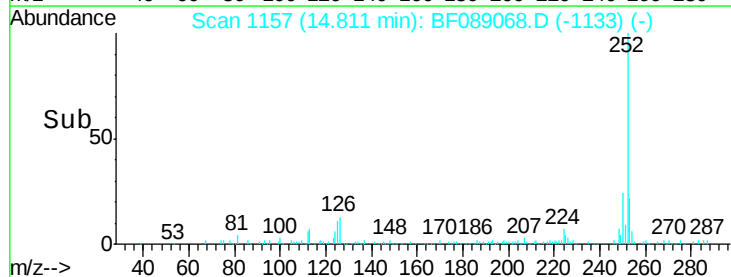
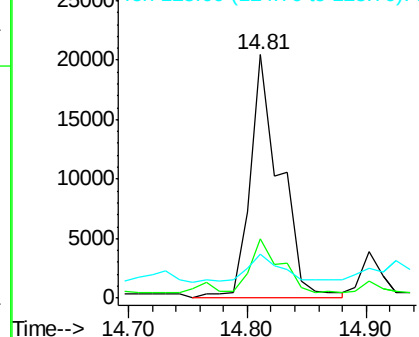


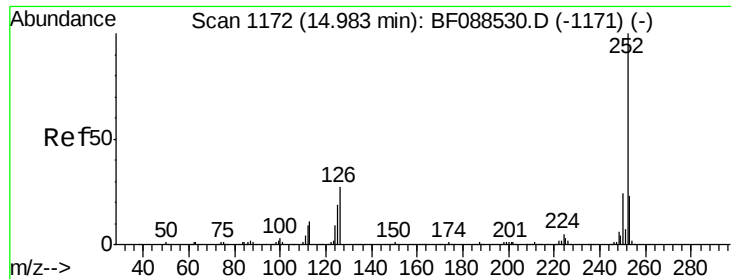
#87
Benzo(b)fluoranthene
Concen: 8.30 ng
RT: 14.81 min Scan# 1157
Delta R.T. -0.02 min
Lab File: BF089068.D
Acq: 16 Jul 2016 21:43

Tgt Ion:252 Resp: 36045
Ion Ratio Lower Upper
252 100
253 24.4 17.4 26.2
125 18.2 7.1 10.7#



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





#88

Benzo(k)fluoranthene

Concen: 9.54 ng

RT: 14.81 min Scan# 1157

Delta R.T. -0.06 min

Lab File: BF089068.D

Acq: 16 Jul 2016 21:43

Instrument :

BNA_F

ClientSampled :

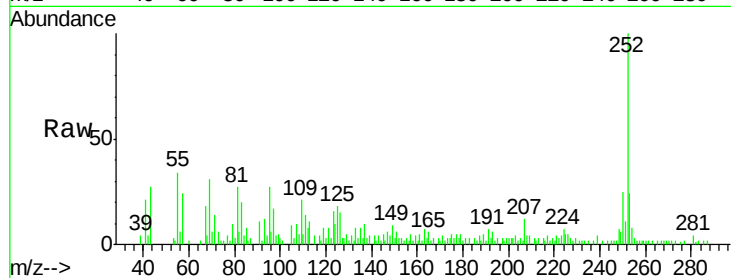
Tot Ion:252 Resp: 36045

Ion Ratio Lower Upper

252 100

253 24.4 18.0 27.0

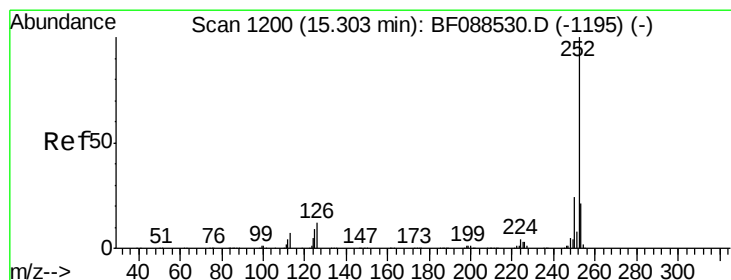
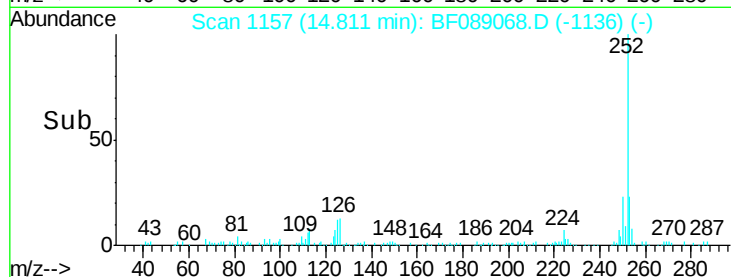
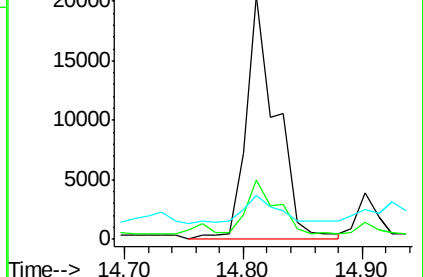
125 18.2 11.2 16.8#



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: 4.33 ng

RT: 15.13 min Scan# 1185

Delta R.T. -0.03 min

Lab File: BF089068.D

Acq: 16 Jul 2016 21:43

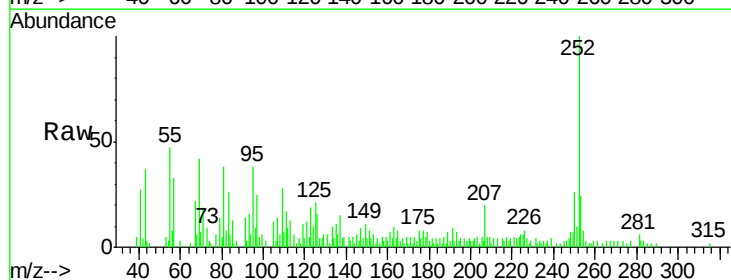
Tgt Ion:252 Resp: 15912

Ion Ratio Lower Upper

252 100

253 24.1 17.9 26.9

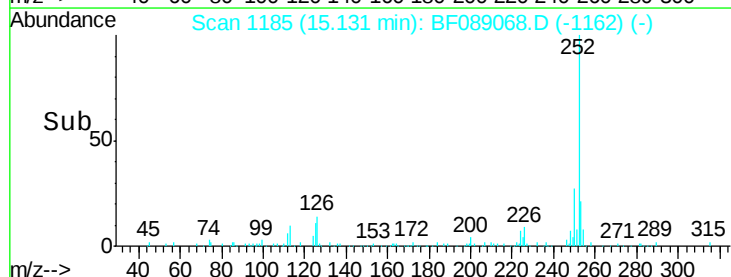
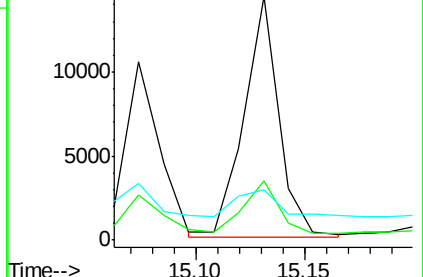
125 20.8 12.5 18.7#

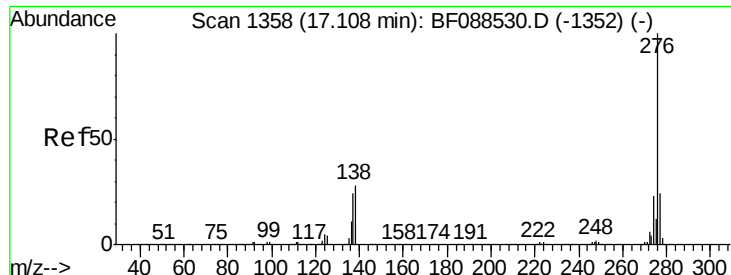


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

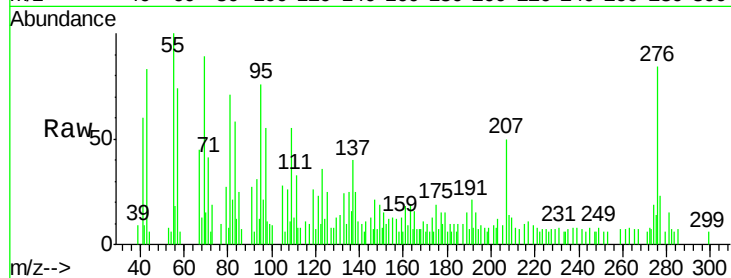




#91
 Benzo(a,h,i)perylene
 Concen: 3.09 ng
 RT: 16.86 min Scan# 1336
 Delta R.T. -0.03 min
 Lab File: BF089068.D
 Acq: 16 Jul 2016 21:43

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ion	Ratio	Lower	Upper
276	100			
277	27.9	18.9	28.3	
138	29.8	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

