

Data Path : Z:\HPCHEM1\BNA F\DATA\BF042617\
 Data File : BF094660.D
 Acq On : 26 Apr 2017 21:17
 Operator : SJ/MA
 Sample : I2813-01 2X
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 E2-X10-BASE-02

Quant Time: Apr 27 06:48:45 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF041717.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 17 14:59:23 2017
 Response via : Initial Calibration

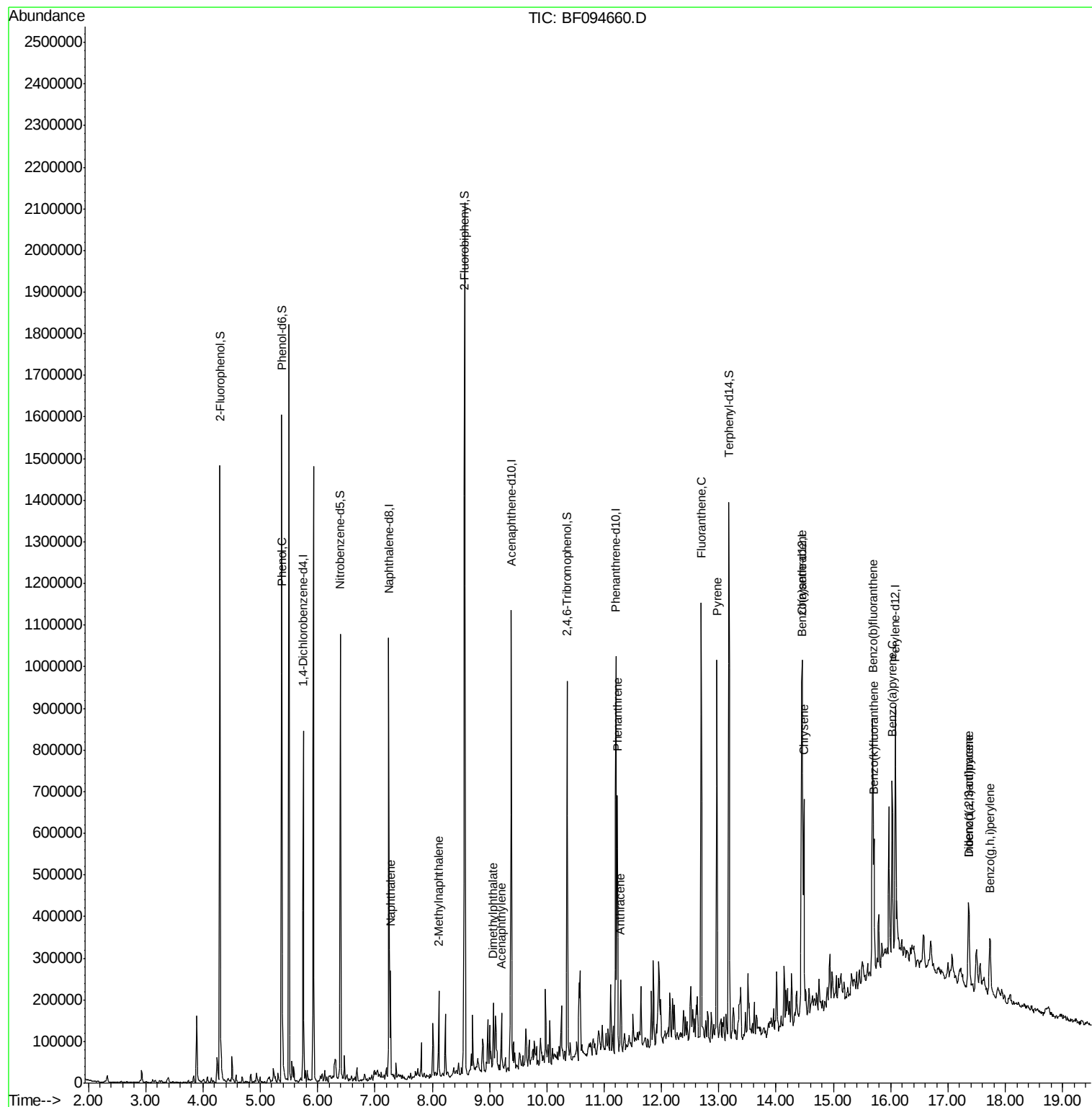
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.75	152	130496	20.00	ng	-0.01
21) Naphthalene-d8	7.24	136	523801	20.00	ng	-0.02
38) Acenaphthene-d10	9.38	164	217757	20.00	ng	-0.02
63) Phenanthrene-d10	11.20	188	365062	20.00	ng	-0.02
75) Chrysene-d12	14.45	240	274691	20.00	ng	-0.01
86) Perylene-d12	16.08	264	244246	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	4.30	112	459580	58.43	ng	0.00
7) Phenol-d6	5.37	99	578560	62.39	ng	-0.02
23) Nitrobenzene-d5	6.40	82	368968	43.50	ng	-0.02
41) 2,4,6-Tribromophenol	10.35	330	96716	56.78	ng	-0.02
44) 2-Fluorobiphenyl	8.57	172	673262	45.49	ng	-0.02
78) Terphenyl-d14	13.18	244	422186	41.08	ng	-0.02
Target Compounds						Qvalue
10) Phenol	5.38	94	35956	3.16	ng	96
31) Naphthalene	7.27	128	83695	3.32	ng	98
37) 2-Methylnaphthalene	8.11	142	59105	3.43	ng	97
48) Acenaphthylene	9.20	152	58354	2.65	ng	98
49) Dimethylphthalate	9.07	163	70921	4.37	ng	# 99
70) Phenanthrene	11.23	178	238512	11.60	ng	97
71) Anthracene	11.30	178	73298	3.45	ng	96
74) Fluoranthene	12.70	202	442092	20.75	ng	99
77) Pyrene	12.97	202	398456	20.76	ng	97
80) Benzo(a)anthracene	14.44	228	213106	13.35	ng	95
82) Chrysene	14.48	228	228128	15.63	ng	97
85) Indeno(1,2,3-cd)pyrene	17.36	276	109108	7.86	ng	92
87) Benzo(b)fluoranthene	15.68	252	326308m	21.84	ng	
88) Benzo(k)fluoranthene	15.71	252	102788m	7.27	ng	
89) Benzo(a)pyrene	16.02	252	179763	12.93	ng	96
90) Dibenzo(a,h)anthracene	17.37	278	29056	2.52	ng	# 91
91) Benzo(g,h,i)perylene	17.73	276	94819	8.07	ng	99

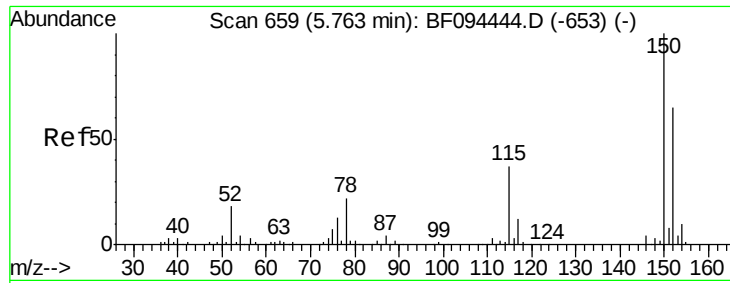
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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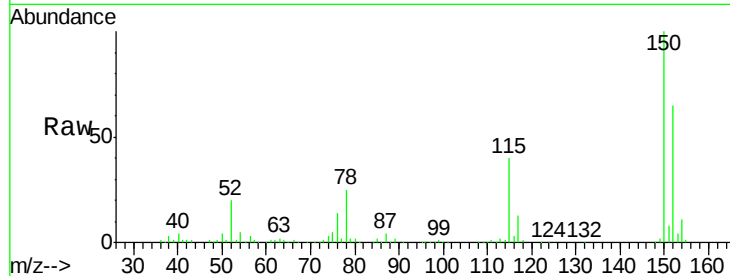


#1

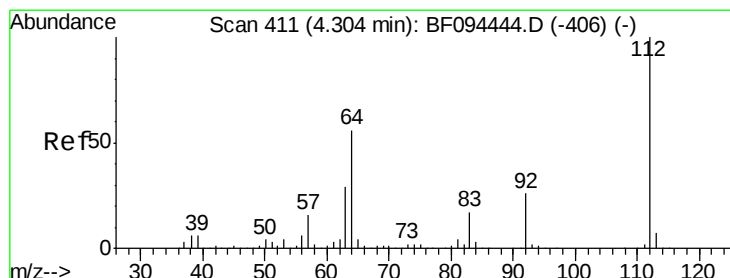
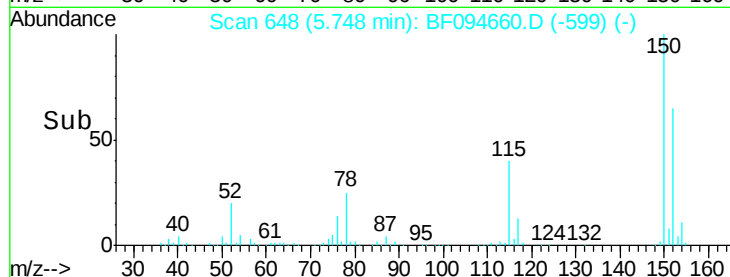
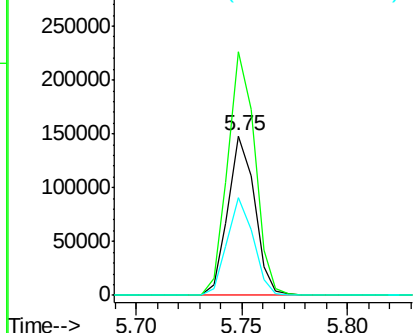
1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 5.75 min Scan# 648
 Delta R.T. -0.01 min
 Lab File: BF094660.D
 Acq: 26 Apr 2017 21:17

Instrument :
 BNA_F
 ClientSampleId :
 E2-X10-BASE-02

Tot Ion:152 Resp: 130496
 Ion Ratio Lower Upper
 152 100
 150 152.9 126.2 189.2
 115 61.6 52.2 78.2



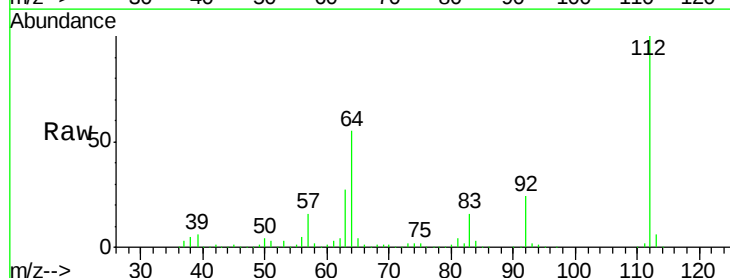
Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E



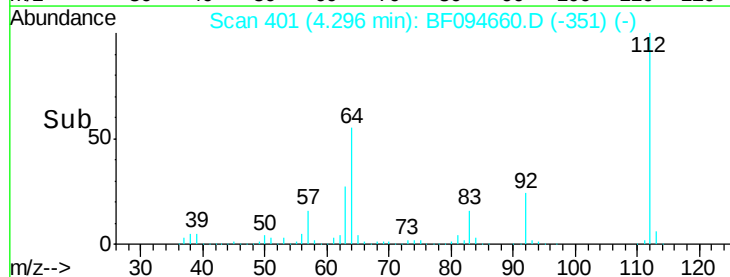
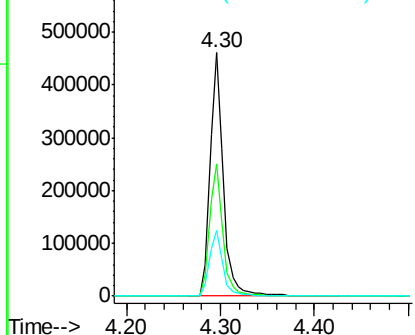
#5

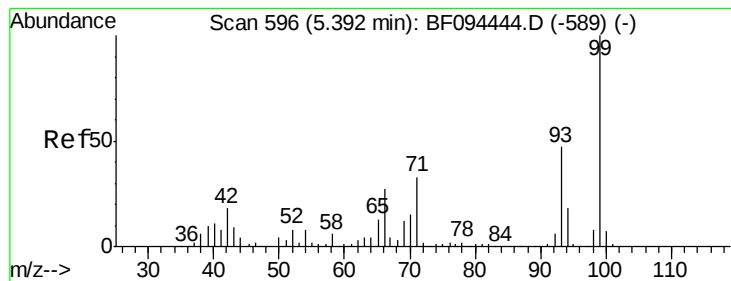
2-Fluorophenol
 Concen: 58.43 ng
 RT: 4.30 min Scan# 401
 Delta R.T. -0.01 min
 Lab File: BF094660.D
 Acq: 26 Apr 2017 21:17

Tgt Ion:112 Resp: 459580
 Ion Ratio Lower Upper
 112 100
 64 54.6 46.0 69.0
 63 27.1 23.4 35.0



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: 62.39 ng

RT: 5.37 min Scan# 584

Delta R.T. -0.02 min

Lab File: BF094660.D

Acq: 26 Apr 2017 21:17

Instrument :

BNA_F

ClientSampleId :

E2-X10-BASE-02

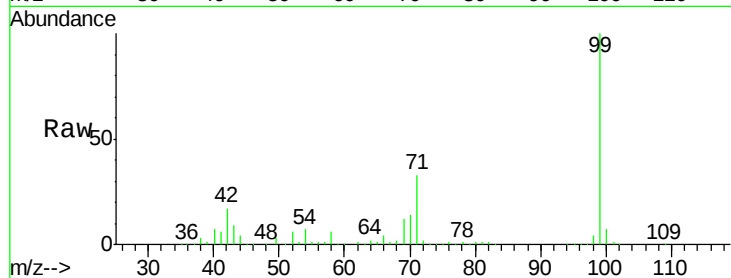
Tot Ion: 99 Resp: 578560

Ion Ratio Lower Upper

99 100

42 17.1 13.5 20.3

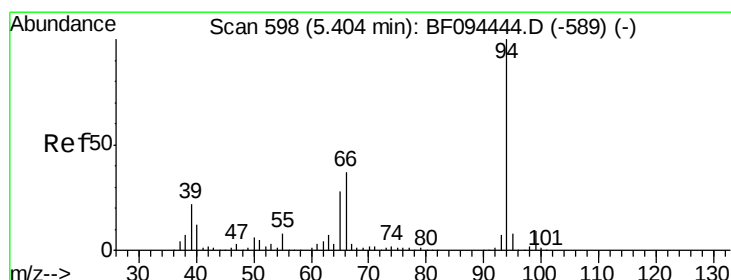
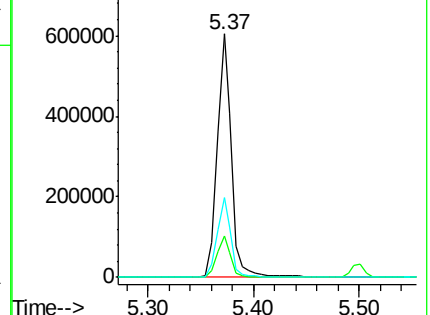
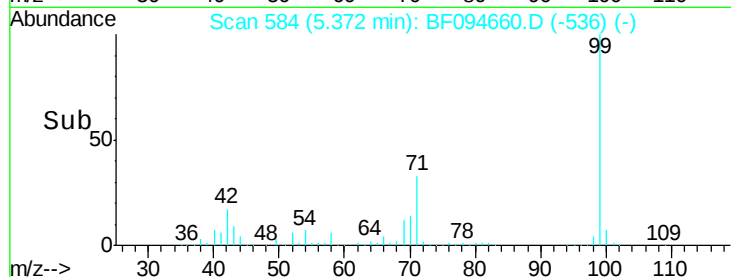
71 32.7 24.5 36.7



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



#10

Phenol

Concen: 3.16 ng

RT: 5.38 min Scan# 586

Delta R.T. -0.02 min

Lab File: BF094660.D

Acq: 26 Apr 2017 21:17

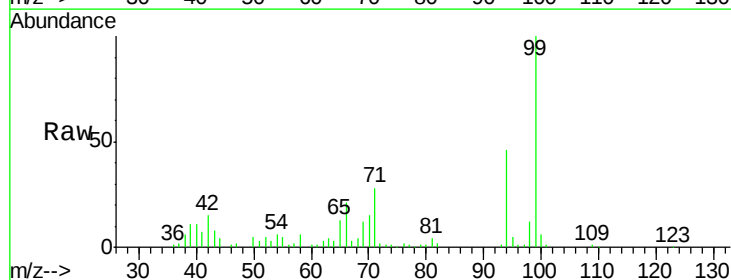
Tgt Ion: 94 Resp: 35956

Ion Ratio Lower Upper

94 100

65 29.5 9.9 49.9

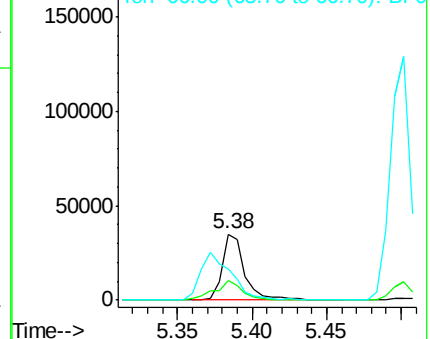
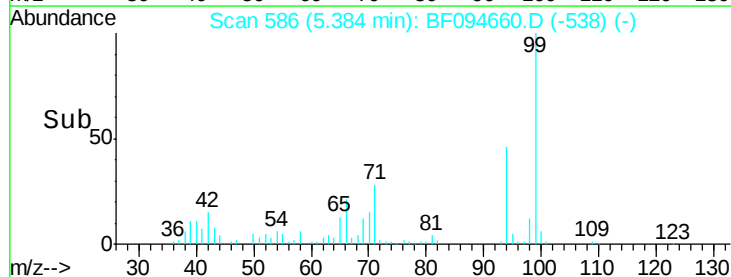
66 46.7 23.1 63.1

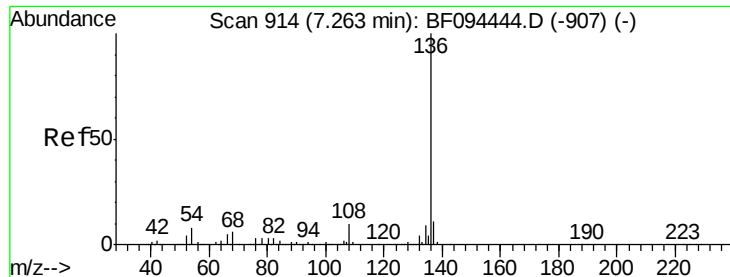


Abundance Ion 94.00 (93.70 to 94.70): BF0

Ion 65.00 (64.70 to 65.70): BF0

Ion 66.00 (65.70 to 66.70): BF0





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.24 min Scan# 902

Delta R.T. -0.02 min

Lab File: BF094660.D

Acq: 26 Apr 2017 21:17

Instrument :

BNA_F

ClientSampleId :

E2-X10-BASE-02

Tot Ion:136 Resp: 523801

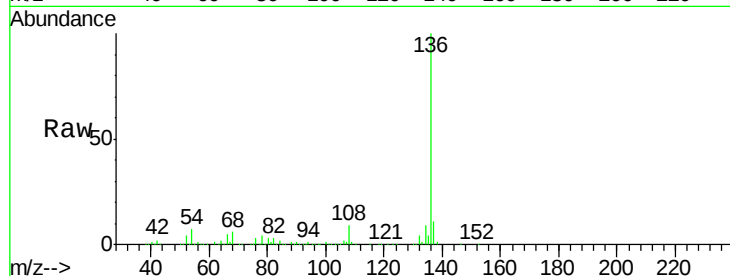
Ion Ratio Lower Upper

136 100

137 11.1 8.5 12.7

54 7.4 4.9 7.3#

68 6.1 4.1 6.1

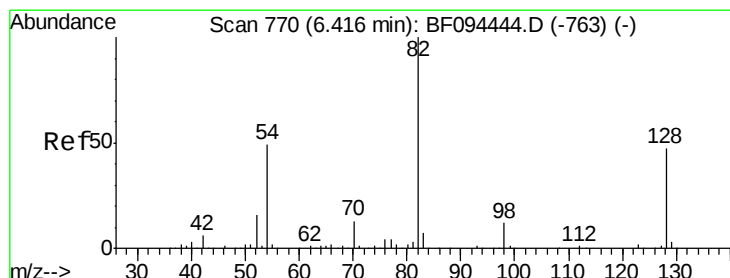
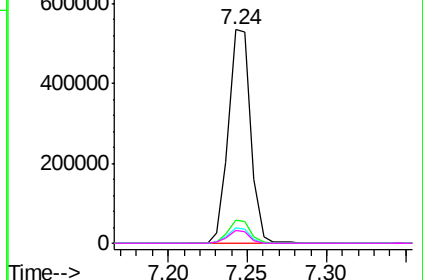
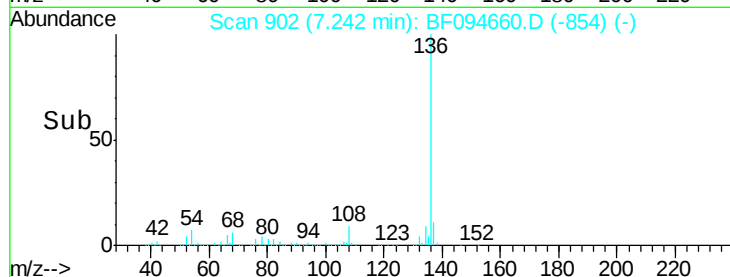


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0



#23

Nitrobenzene-d5

Concen: 43.50 ng

RT: 6.40 min Scan# 758

Delta R.T. -0.02 min

Lab File: BF094660.D

Acq: 26 Apr 2017 21:17

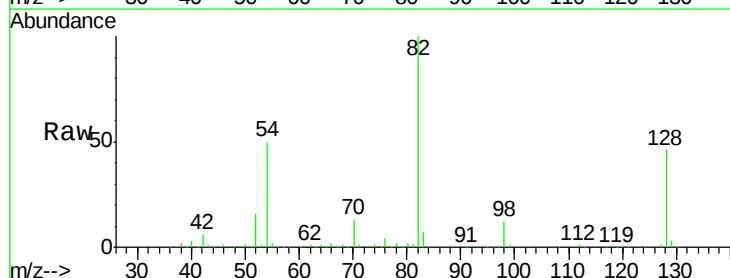
Tgt Ion: 82 Resp: 368968

Ion Ratio Lower Upper

82 100

128 46.2 34.0 51.0

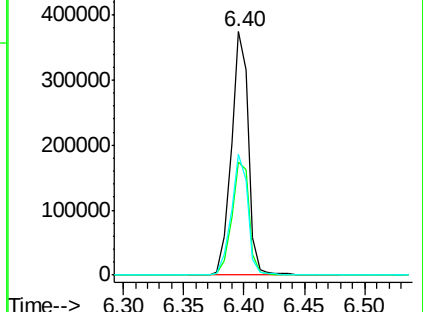
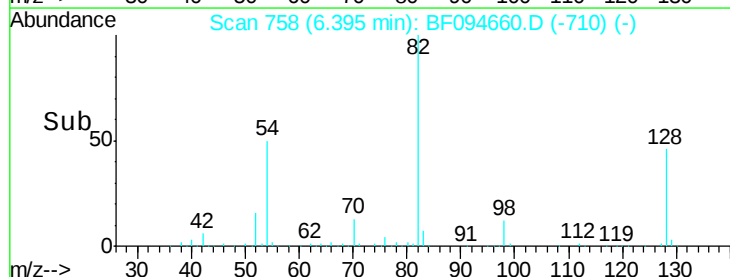
54 49.6 42.2 63.2

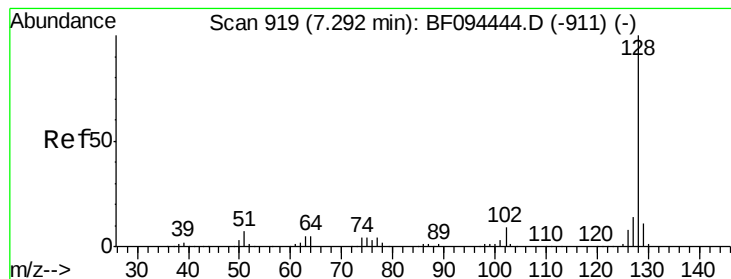


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#31

Naphthalene

Concen: 3.32 ng

RT: 7.27 min Scan# 907

Delta R.T. -0.02 min

Lab File: BF094660.D

Acq: 26 Apr 2017 21:17

Instrument :

BNA_F

ClientSampleId :

E2-X10-BASE-02

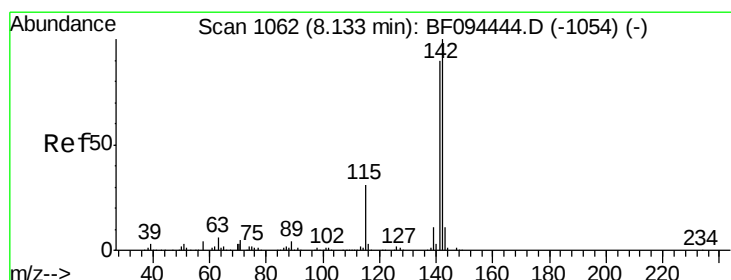
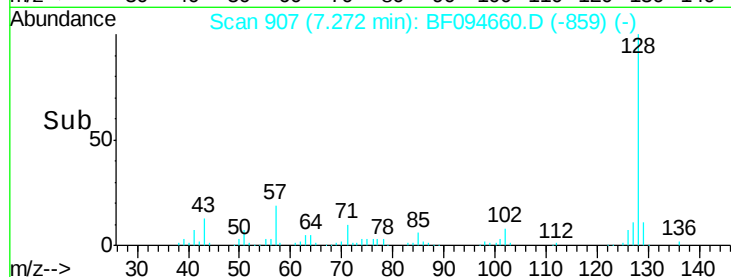
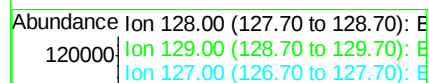
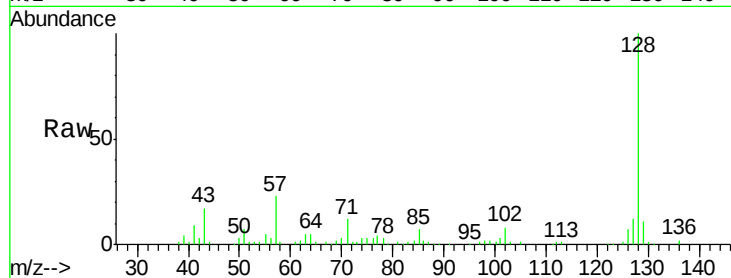
Tot Ion:128 Resp: 83695

Ion Ratio Lower Upper

128 100

129 11.3 9.0 13.6

127 12.0 10.8 16.2



#37

2-Methylnaphthalene

Concen: 3.43 ng

RT: 8.11 min Scan# 1050

Delta R.T. -0.02 min

Lab File: BF094660.D

Acq: 26 Apr 2017 21:17

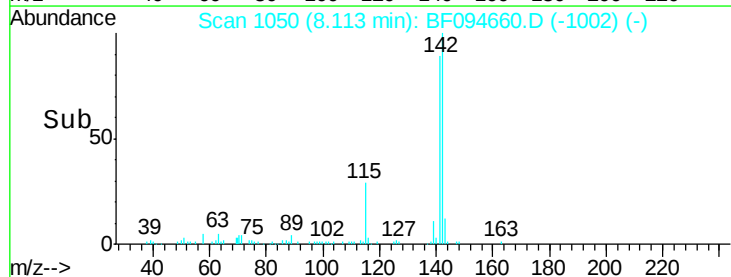
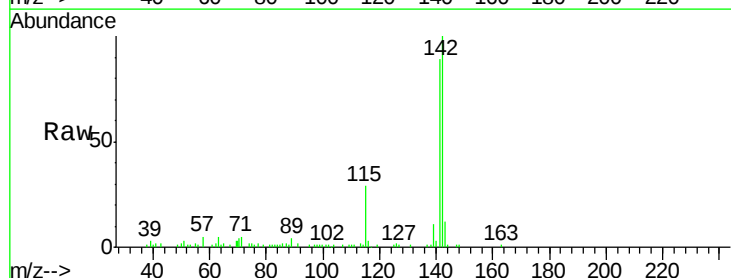
Tgt Ion:142 Resp: 59105

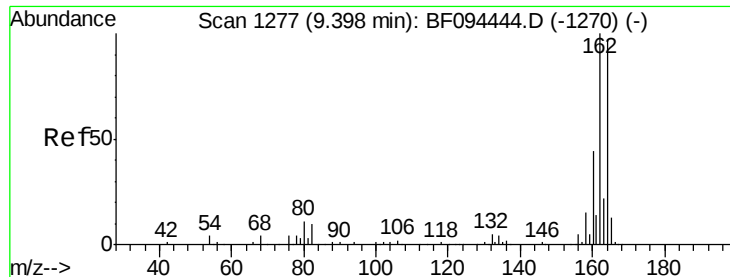
Ion Ratio Lower Upper

142 100

141 89.2 71.3 106.9

115 28.7 27.1 40.7





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.38 min Scan# 1265

Delta R.T. -0.02 min

Lab File: BF094660.D

Acq: 26 Apr 2017 21:17

Instrument :

BNA_F

ClientSampleId :

E2-X10-BASE-02

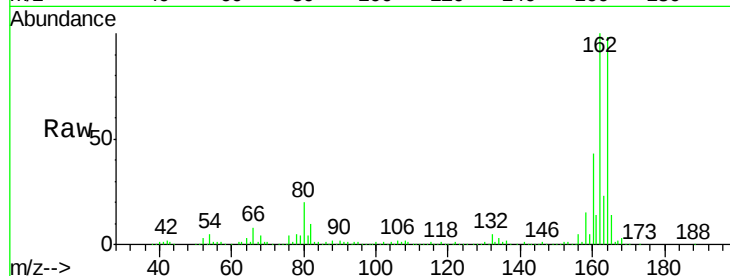
Tot Ion:164 Resp: 217757

Ion Ratio Lower Upper

164 100

162 102.1 82.6 123.8

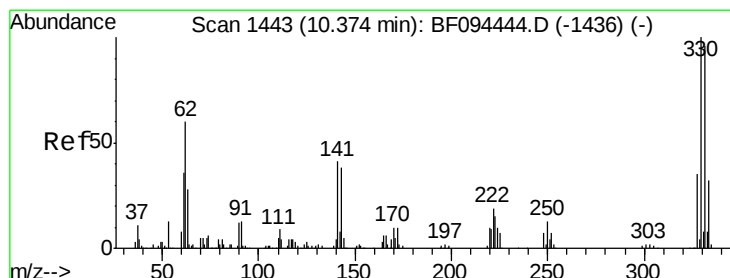
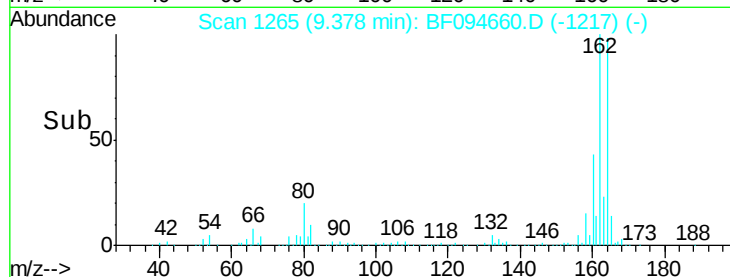
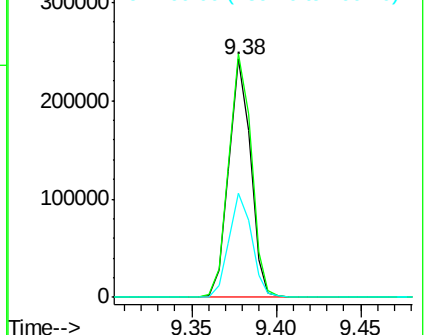
160 43.4 36.2 54.2



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: 56.78 ng

RT: 10.35 min Scan# 1431

Delta R.T. -0.02 min

Lab File: BF094660.D

Acq: 26 Apr 2017 21:17

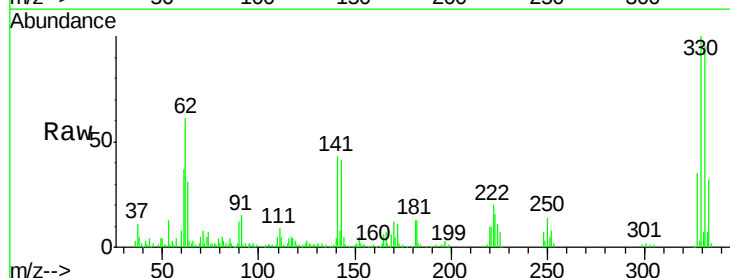
Tgt Ion:330 Resp: 96716

Ion Ratio Lower Upper

330 100

332 97.4 76.6 115.0

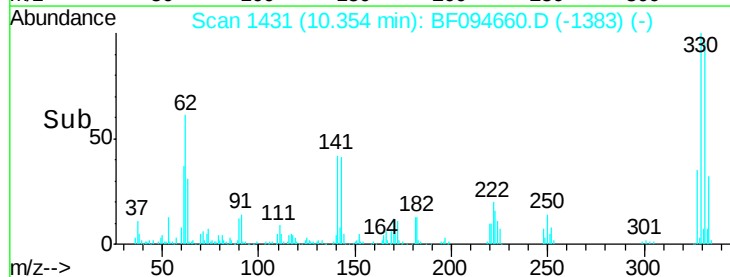
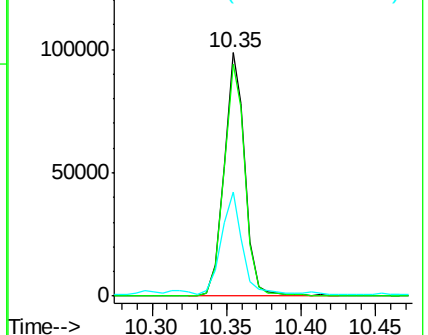
141 41.2 31.4 47.2

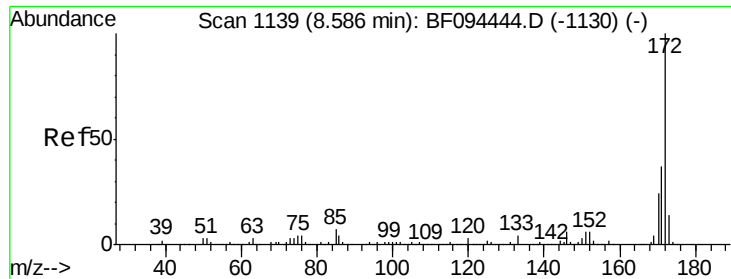


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

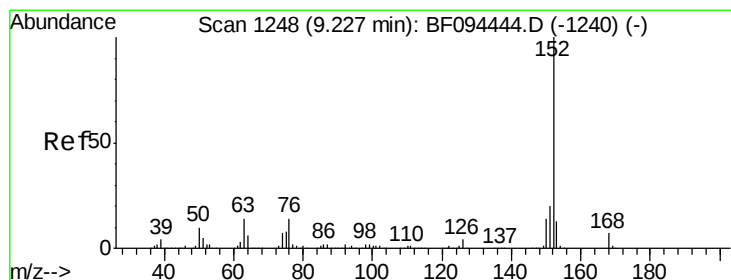
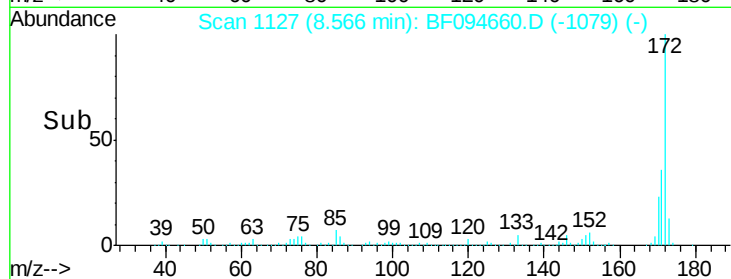
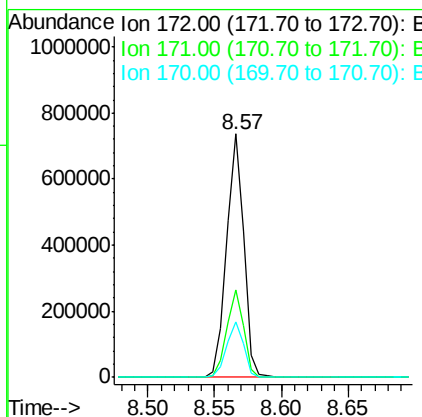
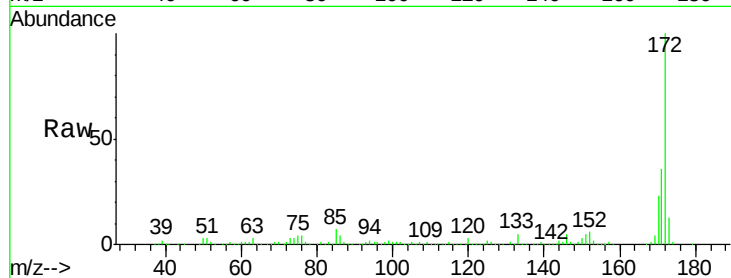




#44
 2-Fluorobiphenyl
 Concen: 45.49 ng
 RT: 8.57 min Scan# 1127
 Delta R.T. -0.02 min
 Lab File: BF094660.D
 Acq: 26 Apr 2017 21:17

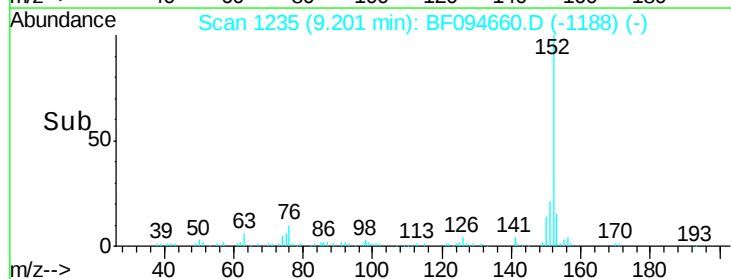
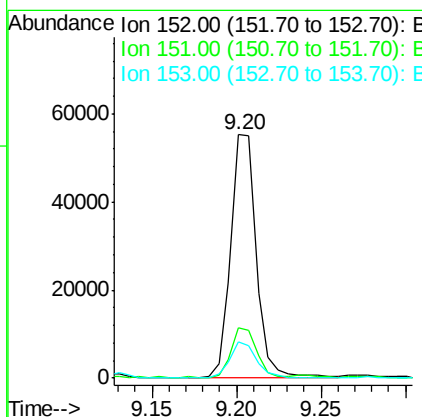
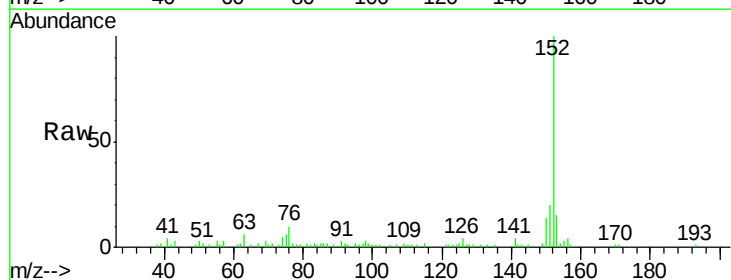
Instrument :
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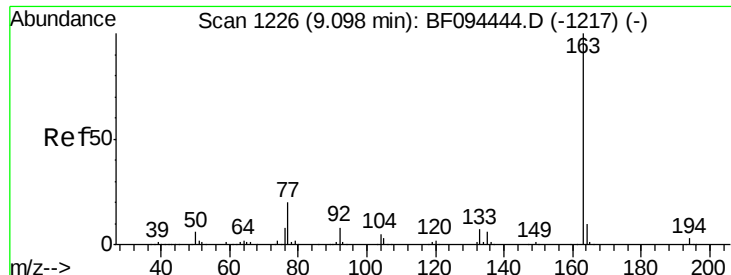
Tot Ion:172 Resp: 673262
 Ion Ratio Lower Upper
 172 100
 171 35.8 29.6 44.4
 170 22.9 19.8 29.8



#48
 Acenaphthylene
 Concen: 2.65 ng
 RT: 9.20 min Scan# 1235
 Delta R.T. -0.03 min
 Lab File: BF094660.D
 Acq: 26 Apr 2017 21:17

Tgt Ion:152 Resp: 58354
 Ion Ratio Lower Upper
 152 100
 151 20.5 16.8 25.2
 153 14.9 10.8 16.2

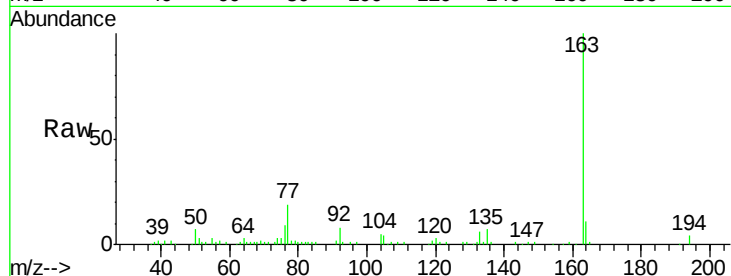




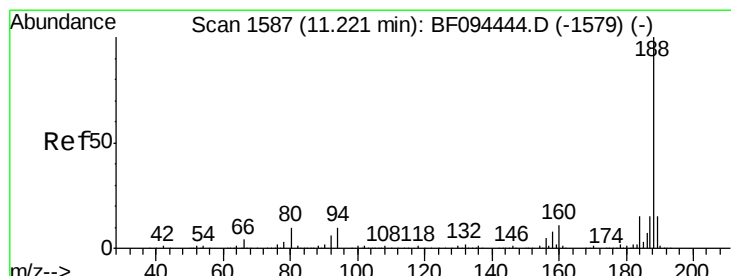
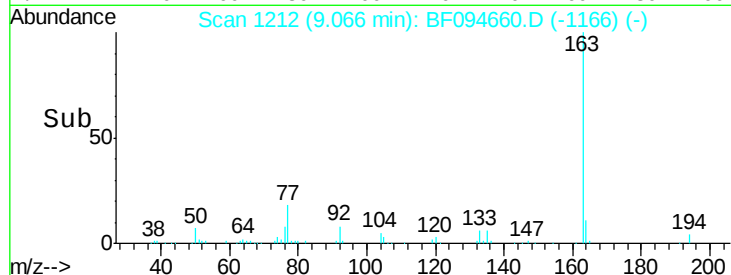
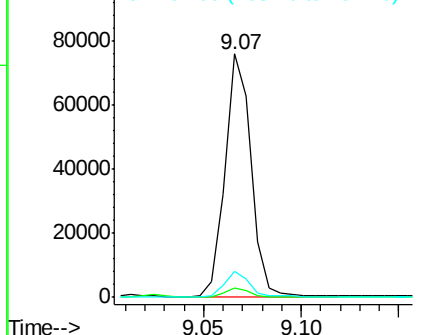
#49
Dimethylphthalate
Concen: 4.37 ng
RT: 9.07 min Scan# 1212
Delta R.T. -0.03 min
Lab File: BF094660.D
Acq: 26 Apr 2017 21:17

Instrument :
BNA_F
ClientSampleId :
E2-X10-BASE-02

Tot Ion:163 Resp: 70921
Ion Ratio Lower Upper
163 100
194 4.0 2.6 4.0#
164 10.7 8.4 12.6

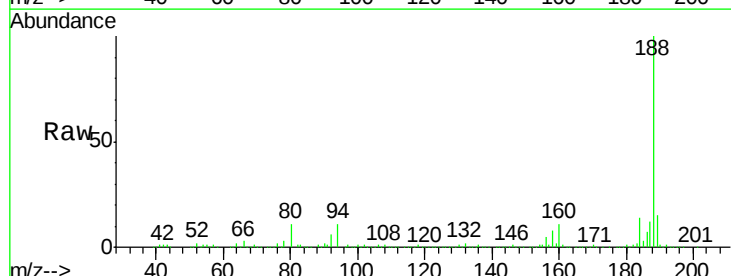


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

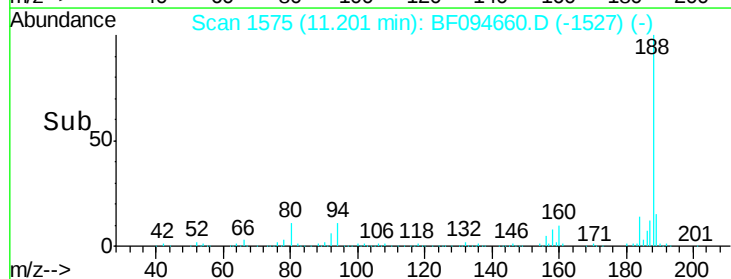
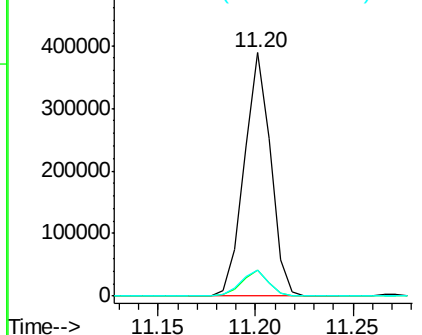


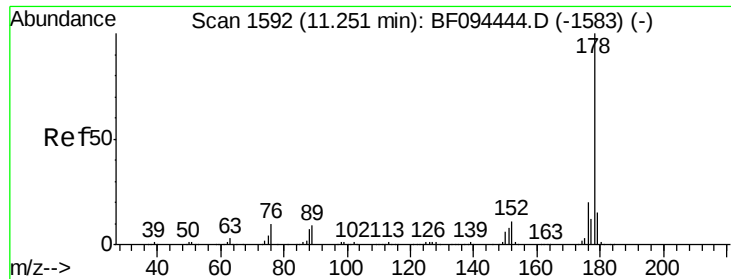
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.20 min Scan# 1575
Delta R.T. -0.02 min
Lab File: BF094660.D
Acq: 26 Apr 2017 21:17

Tgt Ion:188 Resp: 365062
Ion Ratio Lower Upper
188 100
94 10.6 9.4 14.2
80 10.6 10.2 15.2



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: 11.60 ng

RT: 11.23 min Scan# 1580

Delta R.T. -0.02 min

Lab File: BF094660.D

Acq: 26 Apr 2017 21:17

Instrument :

BNA_F

ClientSampleId :

E2-X10-BASE-02

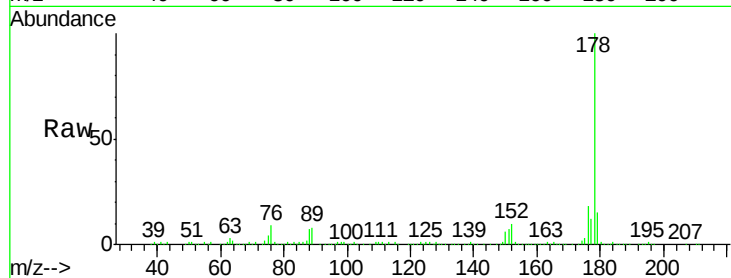
Tot Ion:178 Resp: 238512

Ion Ratio Lower Upper

178 100

176 18.3 16.2 24.4

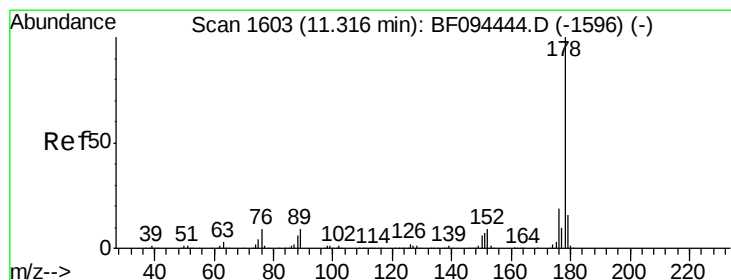
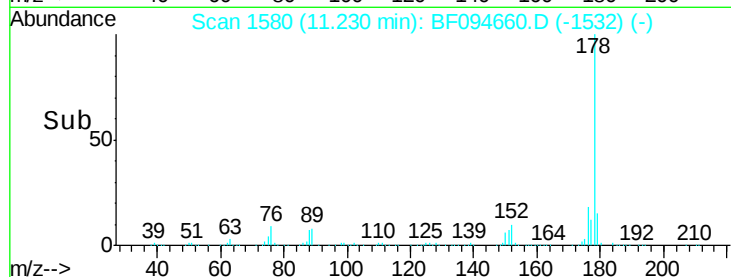
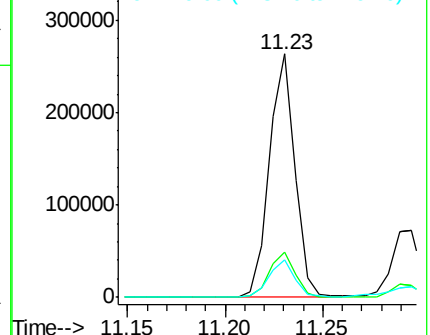
179 15.3 12.6 19.0



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: 3.45 ng

RT: 11.30 min Scan# 1591

Delta R.T. -0.02 min

Lab File: BF094660.D

Acq: 26 Apr 2017 21:17

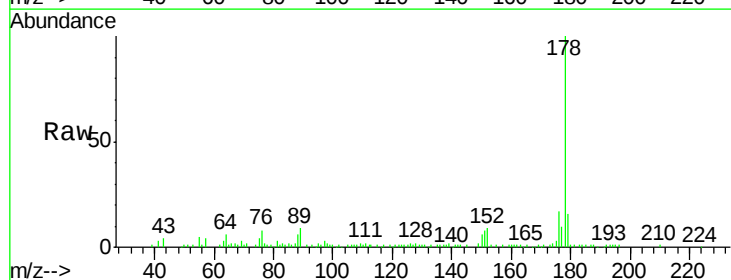
Tgt Ion:178 Resp: 73298

Ion Ratio Lower Upper

178 100

176 16.9 15.8 23.8

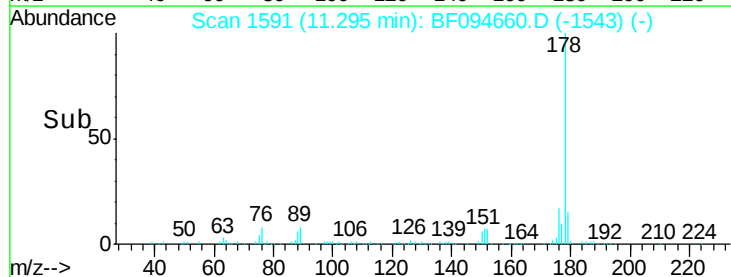
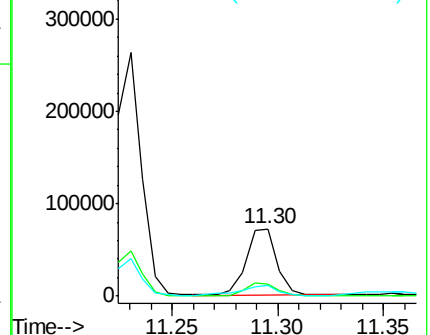
179 15.9 12.7 19.1

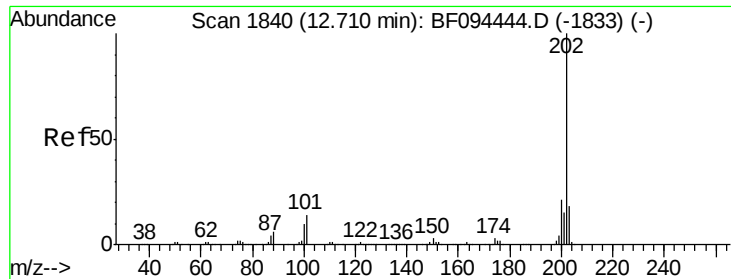


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#74

Fluoranthene

Concen: 20.75 ng

RT: 12.70 min Scan# 1829

Delta R.T. -0.01 min

Lab File: BF094660.D

Acq: 26 Apr 2017 21:17

Instrument :

BNA_F

ClientSampleId :

E2-X10-BASE-02

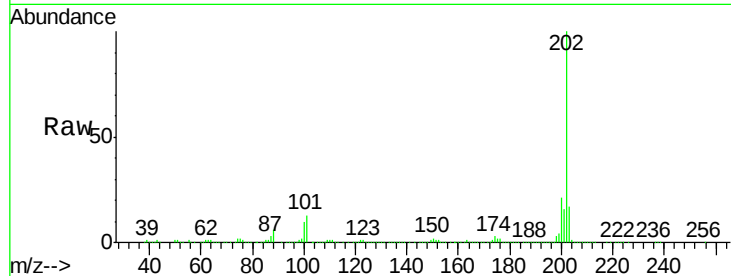
Tot Ion:202 Resp: 442092

Ion Ratio Lower Upper

202 100

101 13.4 0.0 33.2

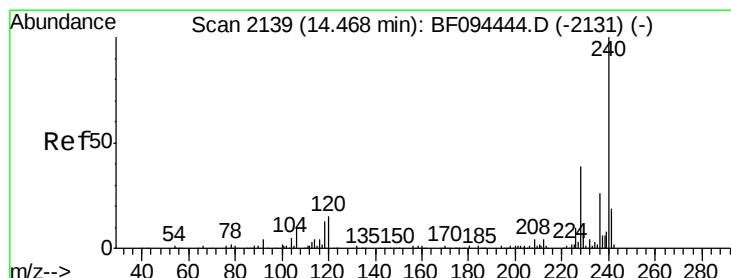
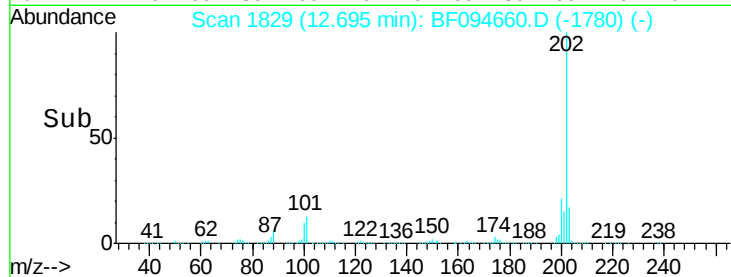
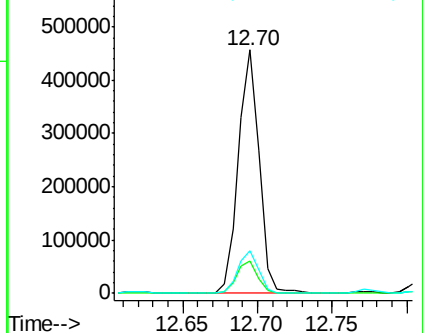
203 17.4 0.0 38.1



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: 14.45 min Scan# 2128

Delta R.T. -0.01 min

Lab File: BF094660.D

Acq: 26 Apr 2017 21:17

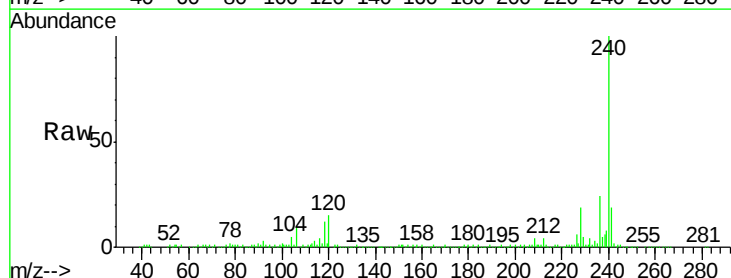
Tgt Ion:240 Resp: 274691

Ion Ratio Lower Upper

240 100

120 14.7 5.8 8.8#

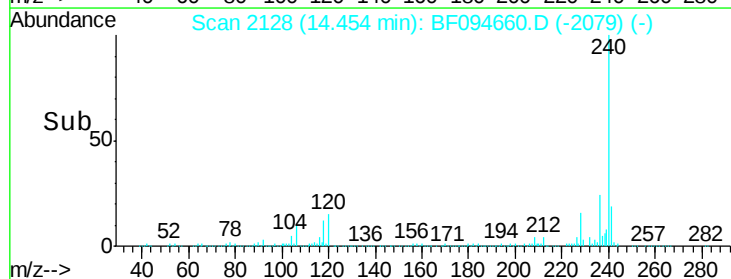
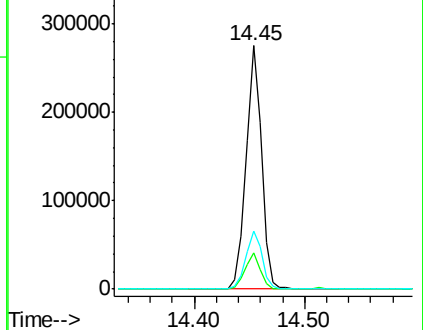
236 24.1 20.5 30.7

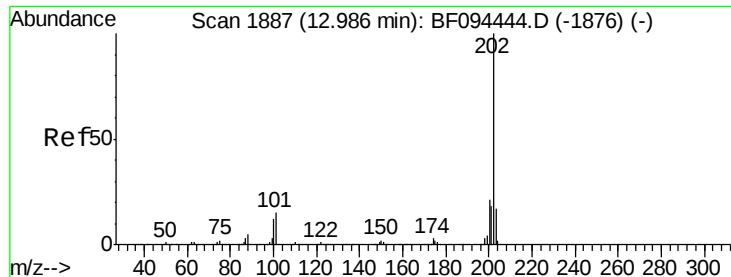


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

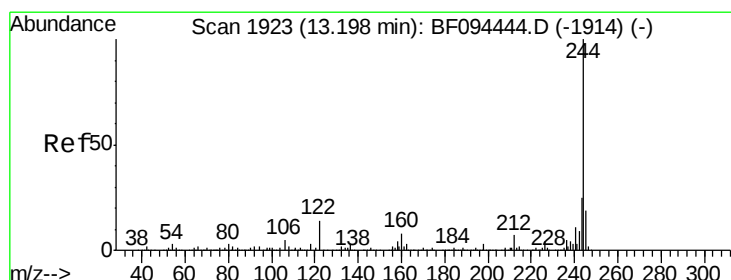
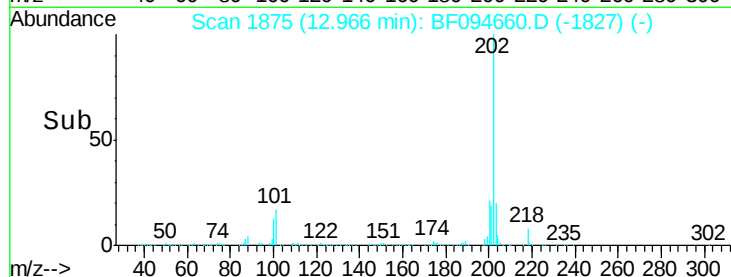
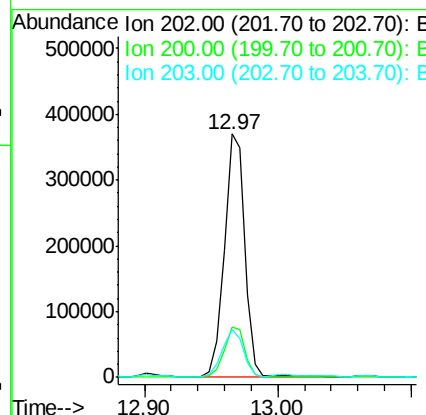
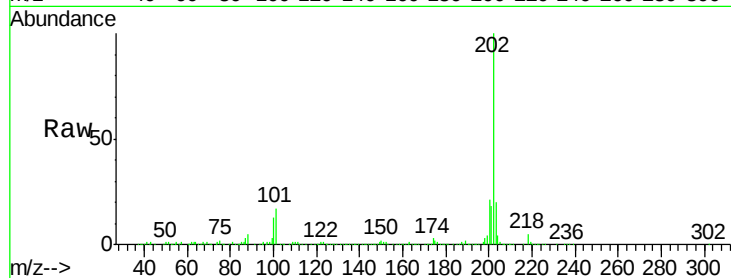




#77
Pvrene
Concen: 20.76 ng
RT: 12.97 min Scan# 1875
Delta R.T. -0.02 min
Lab File: BF094660.D
Acq: 26 Apr 2017 21:17

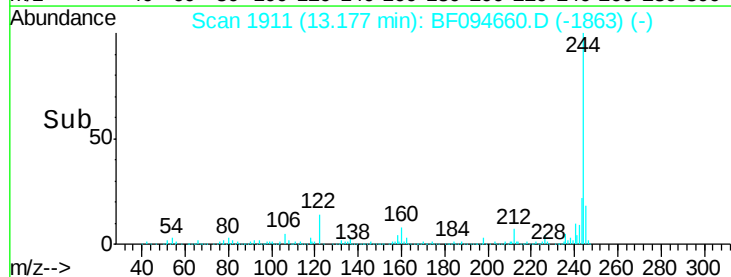
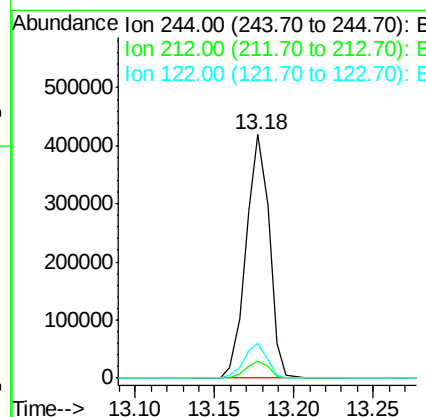
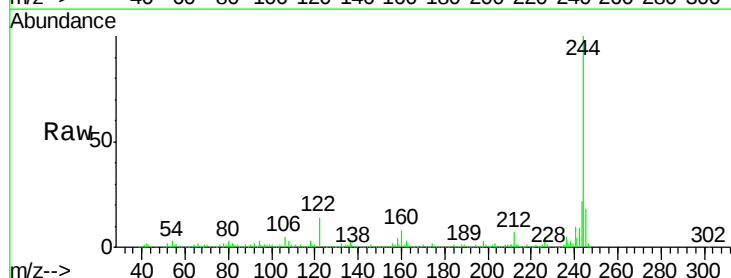
Instrument :
BNA_F
ClientSampleId :
E2-X10-BASE-02

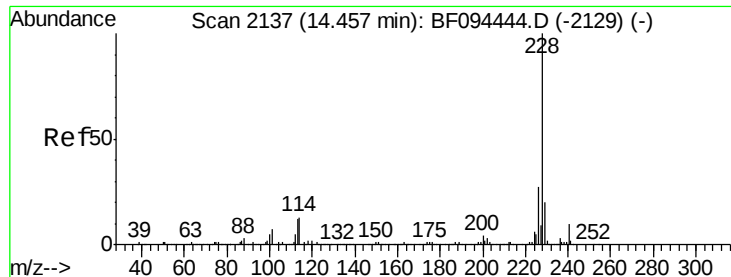
Tot Ion	Ratio	Lower	Upper
202	100		
200	20.5	17.6	26.4
203	19.6	14.4	21.6



#78
Terphenyl-d14
Concen: 41.08 ng
RT: 13.18 min Scan# 1911
Delta R.T. -0.02 min
Lab File: BF094660.D
Acq: 26 Apr 2017 21:17

Tgt Ion	Ratio	Lower	Upper
244	100		
212	7.1	6.0	9.0
122	14.3	10.3	15.5





#80

Benzo(a)anthracene

Concen: 13.35 ng

RT: 14.44 min Scan# 2126

Delta R.T. -0.01 min

Lab File: BF094660.D

Acq: 26 Apr 2017 21:17

Instrument :

BNA_F

ClientSampleId :

E2-X10-BASE-02

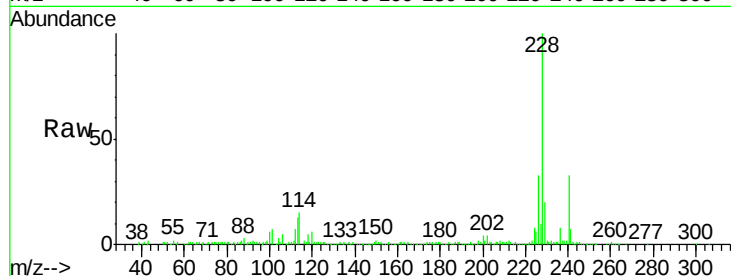
Tot Ion:228 Resp: 213106

Ion Ratio Lower Upper

228 100

226 32.7 22.6 33.8

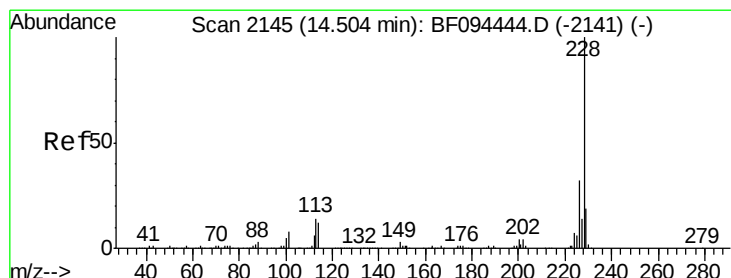
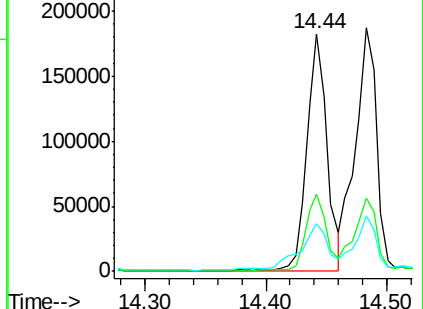
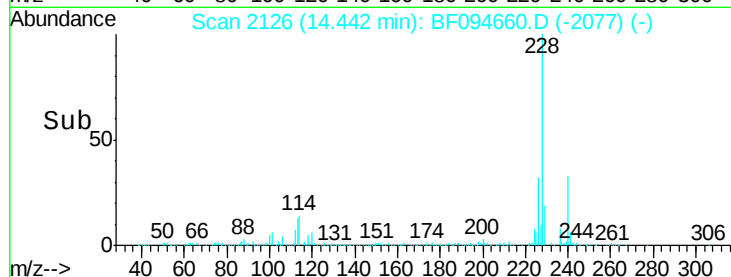
229 20.2 16.3 24.5



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: 15.63 ng

RT: 14.48 min Scan# 2133

Delta R.T. -0.02 min

Lab File: BF094660.D

Acq: 26 Apr 2017 21:17

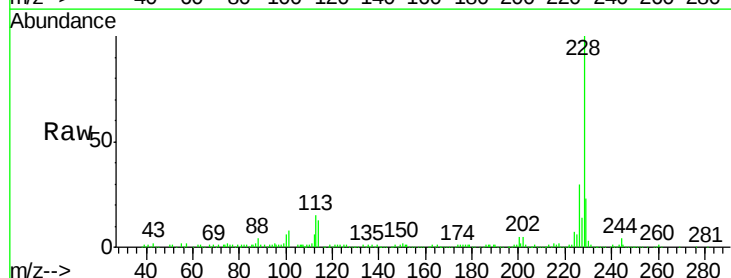
Tgt Ion:228 Resp: 228128

Ion Ratio Lower Upper

228 100

226 30.3 24.9 37.3

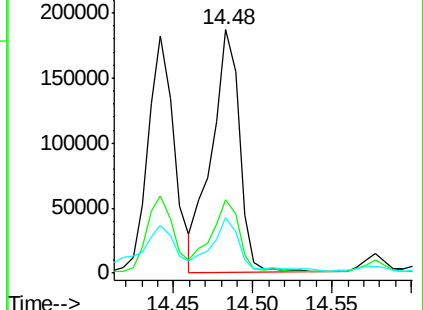
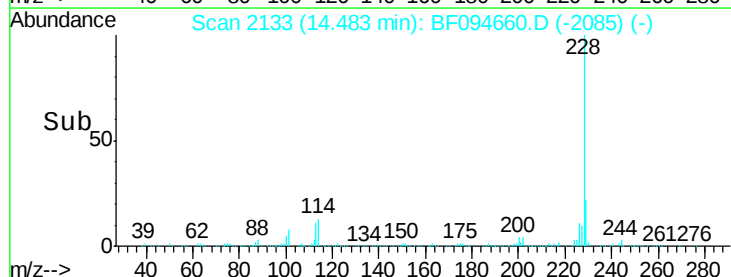
229 22.5 15.8 23.6

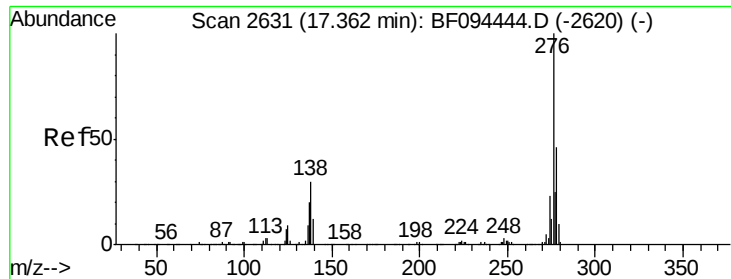


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

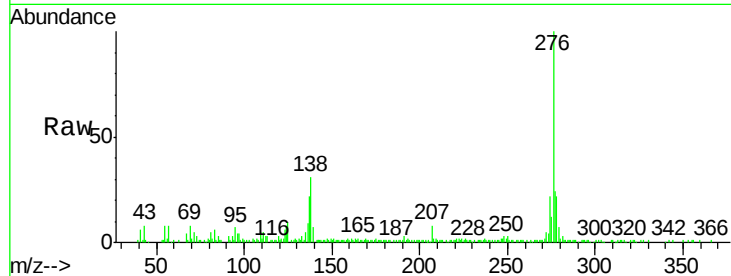




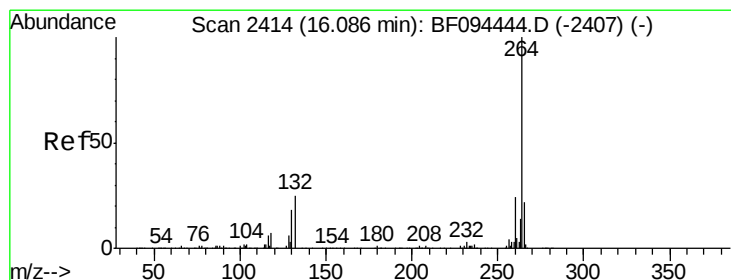
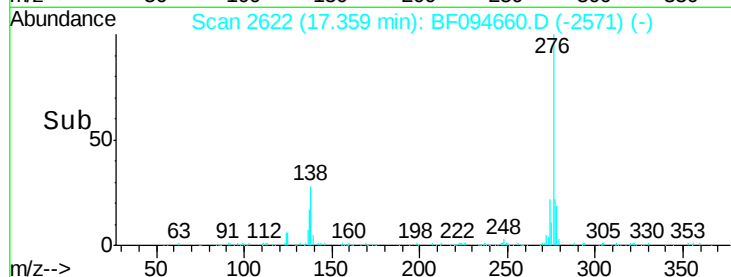
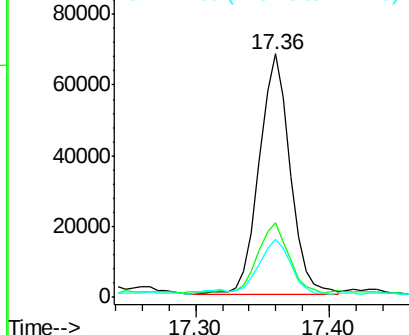
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 7.86 ng
 RT: 17.36 min Scan# 2622
 Delta R.T. -0.00 min
 Lab File: BF094660.D
 Acq: 26 Apr 2017 21:17

Instrument :
 BNA_F
 ClientSampleId :
 E2-X10-BASE-02

Tot Ion	Ratio	Lower	Upper
276	100		
138	28.4	27.8	41.6
277	22.9	20.2	30.4

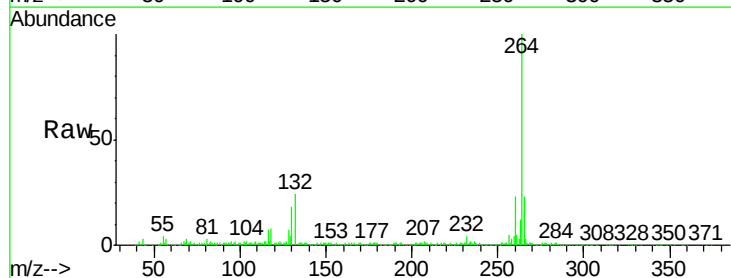


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

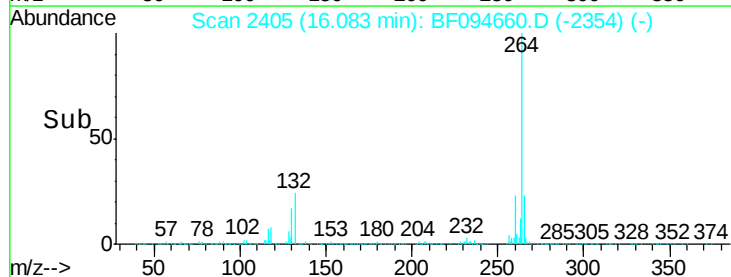
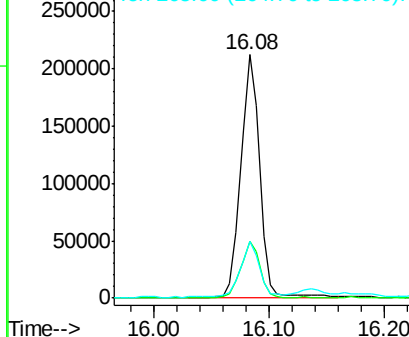


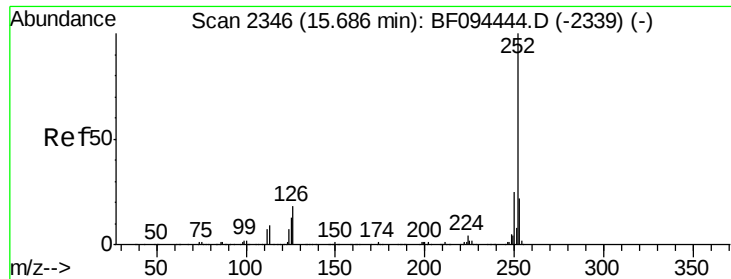
#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 16.08 min Scan# 2405
 Delta R.T. -0.00 min
 Lab File: BF094660.D
 Acq: 26 Apr 2017 21:17

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.4	19.5	29.3
265	23.1	17.2	25.8



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

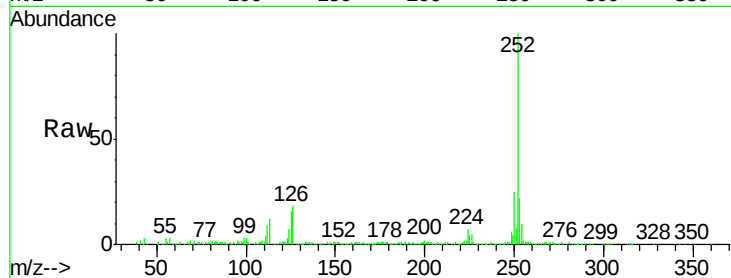




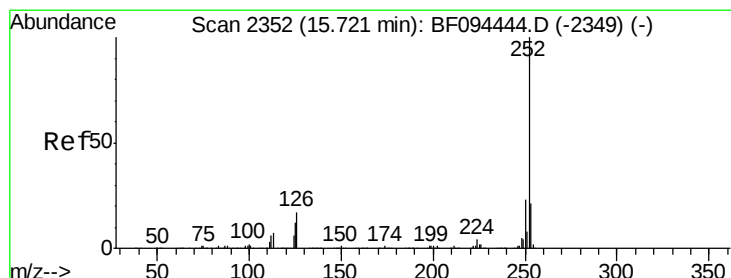
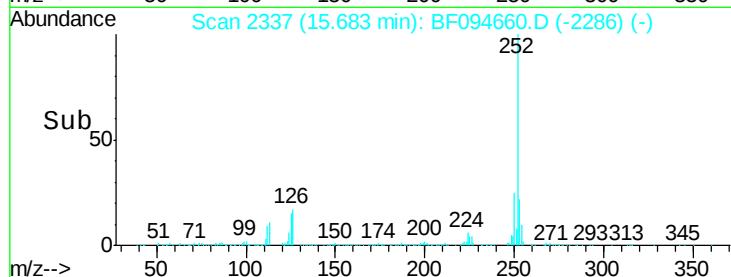
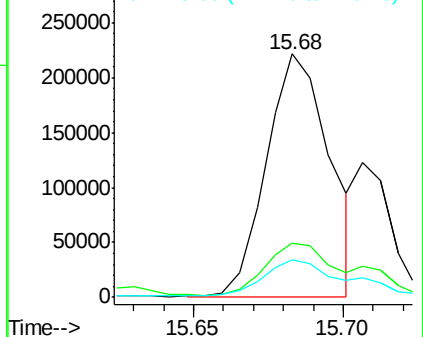
#87
Benzo(b)fluoranthene
Concen: 21.84 ng m
RT: 15.68 min Scan# 2337
Delta R.T. -0.00 min
Lab File: BF094660.D
Acq: 26 Apr 2017 21:17

Instrument :
BNA_F
ClientSampleId :
E2-X10-BASE-02

Tot Ion:252 Resp: 326308
Ion Ratio Lower Upper
252 100
253 22.1 18.1 27.1
125 15.6 9.8 14.8#

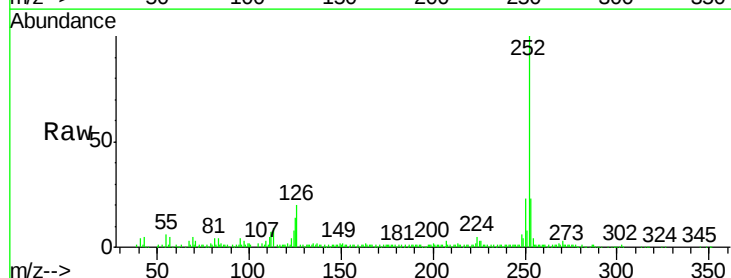


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

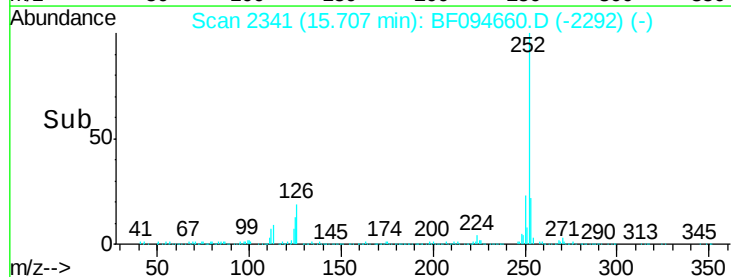
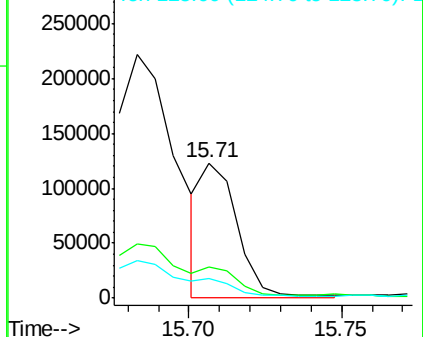


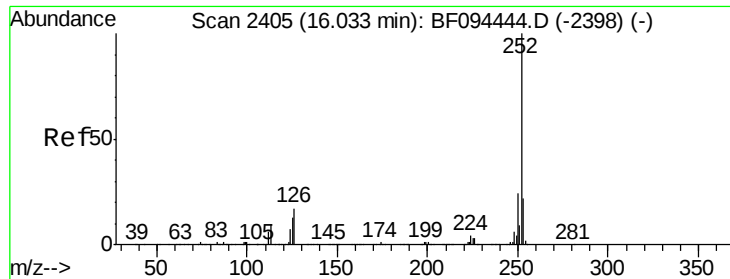
#88
Benzo(k)fluoranthene
Concen: 7.27 ng m
RT: 15.71 min Scan# 2341
Delta R.T. -0.01 min
Lab File: BF094660.D
Acq: 26 Apr 2017 21:17

Tgt Ion:252 Resp: 102788
Ion Ratio Lower Upper
252 100
253 22.8 18.4 27.6
125 14.5 13.1 19.7



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





#89

Benzo(a)pyrene

Concen: 12.93 ng

RT: 16.02 min Scan# 2395

Delta R.T. -0.01 min

Lab File: BF094660.D

Acq: 26 Apr 2017 21:17

Instrument :

BNA_F

ClientSampleId :

E2-X10-BASE-02

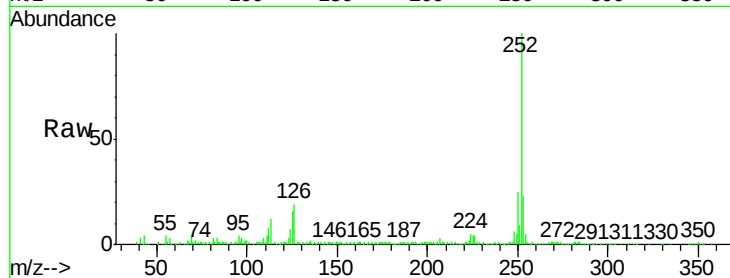
Tot Ion:252 Resp: 179763

Ion Ratio Lower Upper

252 100

253 23.2 17.5 26.3

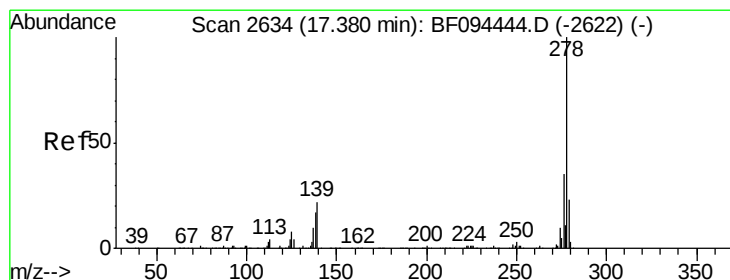
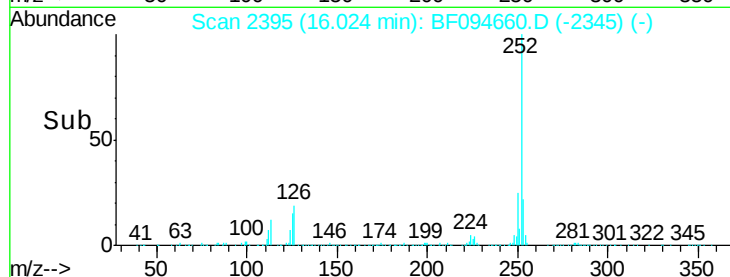
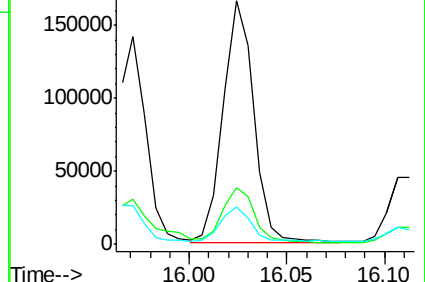
125 15.6 11.0 16.4



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



#90

Dibenzo(a,h)anthracene

Concen: 2.52 ng

RT: 17.37 min Scan# 2623

Delta R.T. -0.01 min

Lab File: BF094660.D

Acq: 26 Apr 2017 21:17

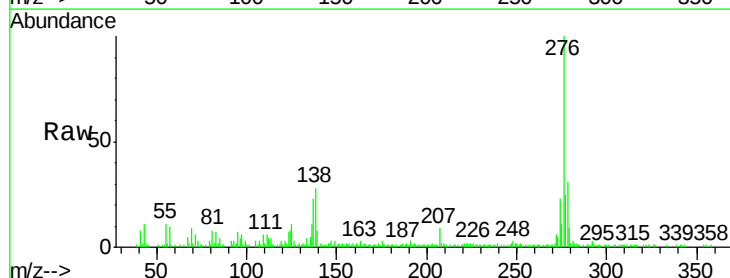
Tgt Ion:278 Resp: 29056

Ion Ratio Lower Upper

278 100

139 25.2 16.6 24.8#

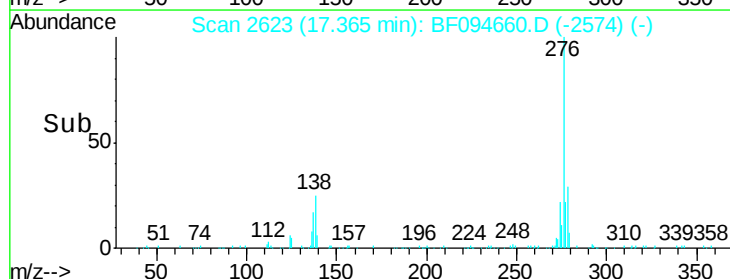
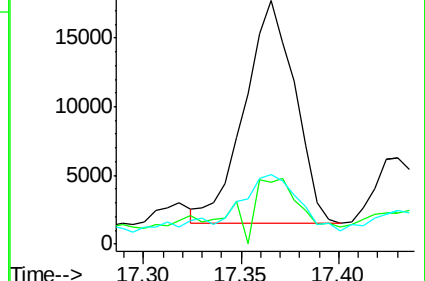
279 28.6 19.3 28.9

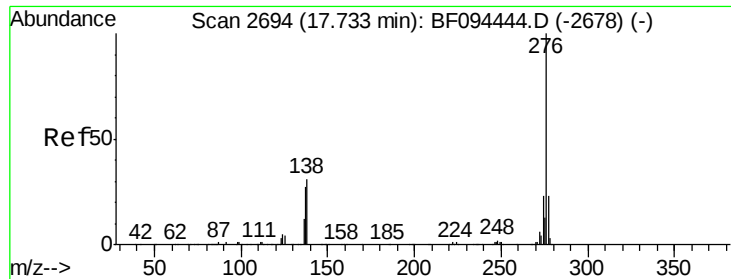


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#91

Benzo(a,h,i)perylene

Concen: 8.07 ng

RT: 17.73 min Scan# 2685

Delta R.T. -0.00 min

Lab File: BF094660.D

Acq: 26 Apr 2017 21:17

Instrument :

BNA_F

ClientSampleId :

E2-X10-BASE-02

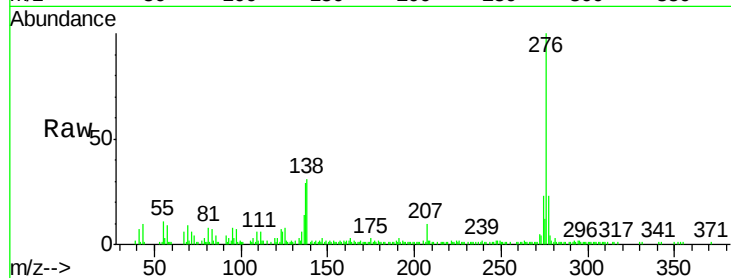
Tot Ion: 276 Resp: 94819

Ion Ratio Lower Upper

276 100

277 23.0 18.6 28.0

138 31.0 25.4 38.0



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

