

Data Path : Z:\HPCHEM1\BNA F\DATA\BF050117\
 Data File : BF094785.D
 Acq On : 2 May 2017 8:13
 Operator : SJ/MA
 Sample : I2892-01
 Misc :
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 AST-S(2.5-3)

Quant Time: May 02 08:40:46 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	5.77	152	94994	20.00	ng	0.00
21) Naphthalene-d8	7.25	136	371368	20.00	ng	0.00
38) Acenaphthene-d10	9.39	164	148258	20.00	ng	0.00
63) Phenanthrene-d10	11.21	188	225558	20.00	ng	0.00
75) Chrysene-d12	14.47	240	200262	20.00	ng	0.00
86) Perylene-d12	16.10	264	134635	20.00	ng	0.01

System Monitoring Compounds						
5) 2-Fluorophenol	4.32	112	858406	149.92	ng	0.02
7) Phenol-d6	5.40	99	1057148	156.61	ng	0.00
23) Nitrobenzene-d5	6.41	82	614637	102.20	ng	0.00
41) 2,4,6-Tribromophenol	10.37	330	168020	144.89	ng	0.00
44) 2-Fluorobiphenyl	8.58	172	1052122	104.41	ng	0.00
78) Terphenyl-d14	13.19	244	731815	97.68	ng	0.00

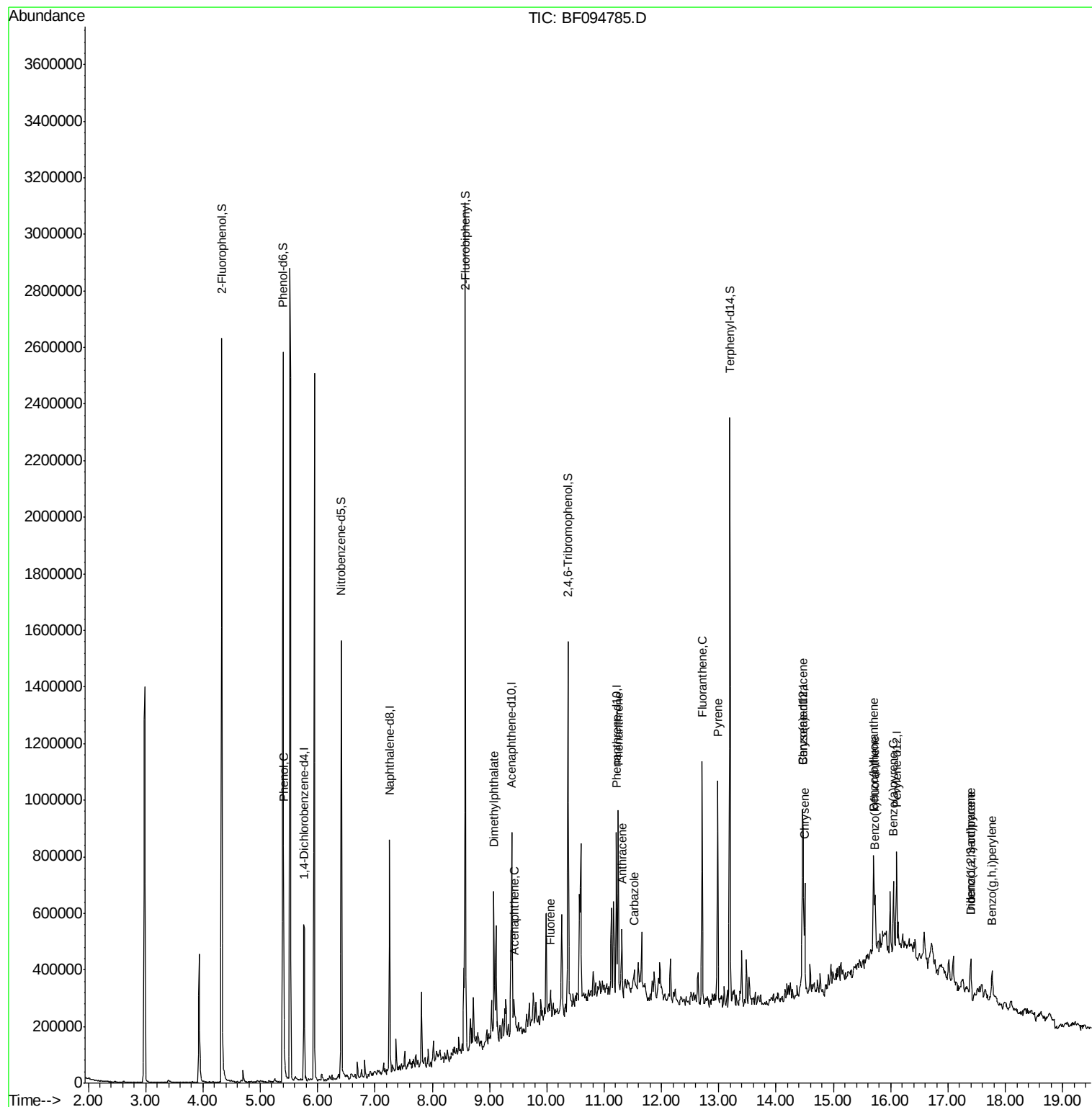
Target Compounds						Qvalue
10) Phenol	5.41	94	27278	3.29	ng	92
49) Dimethylphthalate	9.08	163	256980	23.26	ng	99
51) Acenaphthene	9.43	154	21662	2.41	ng	99
57) Fluorene	10.07	166	27198	2.67	ng	98
70) Phenanthrene	11.24	178	276289	21.75	ng	98
71) Anthracene	11.31	178	89897	6.84	ng	96
72) Carbazole	11.52	167	36942	3.00	ng	98
74) Fluoranthene	12.71	202	395630	30.05	ng	99
77) Pyrene	12.98	202	336074	24.02	ng	97
80) Benzo(a)anthracene	14.46	228	189611	16.29	ng	99
82) Chrysene	14.50	228	171448	16.12	ng	96
85) Indeno(1,2,3-cd)pyrene	17.39	276	63072	6.23	ng	96
87) Benzo(b)fluoranthene	15.70	252	184764m	22.43	ng	
88) Benzo(k)fluoranthene	15.72	252	56791m	7.29	ng	
89) Benzo(a)pyrene	16.05	252	114382	14.93	ng	97
90) Dibenzo(a,h)anthracene	17.39	278	19267	3.03	ng	# 74
91) Benzo(a,h,i)perylene	17.77	276	72873	11.25	ng	98

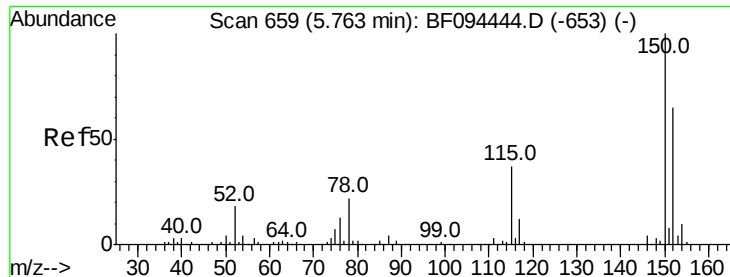
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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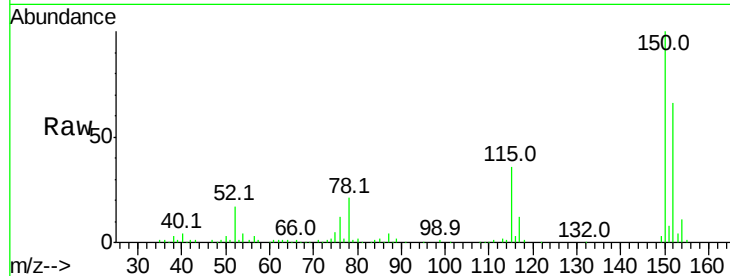


#1

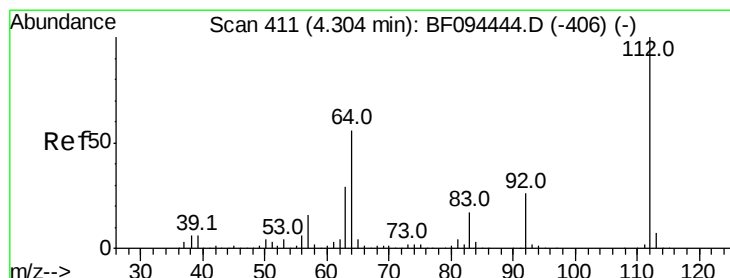
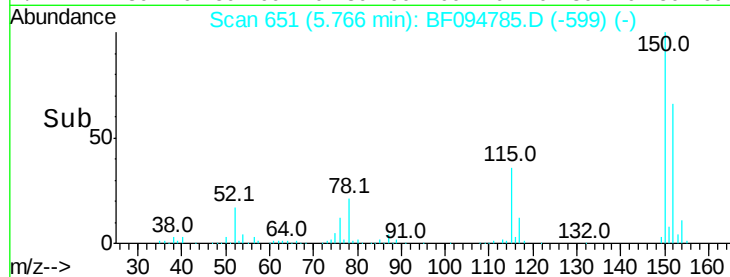
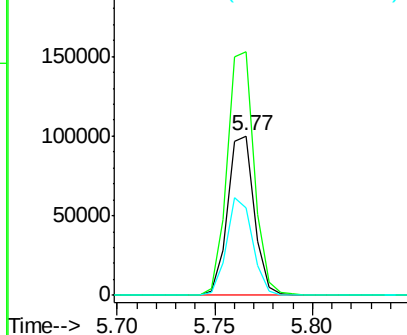
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 5.77 min Scan# 651
Delta R.T. 0.00 min
Lab File: BF094785.D
Acq: 2 May 2017 8:13

Instrument :
BNA_F
ClientSampleId :
AST-S(2.5-3)

Tot Ion:152 Resp: 94994
Ion Ratio Lower Upper
152 100
150 152.6 126.2 189.2
115 55.1 52.2 78.2



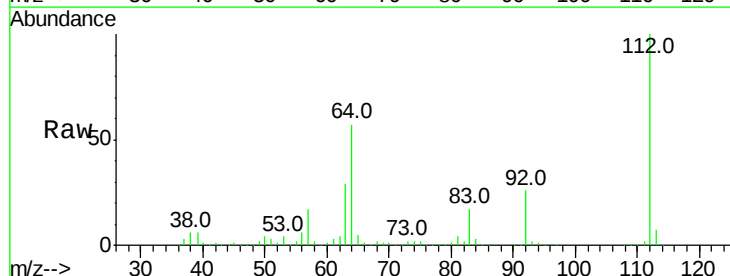
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



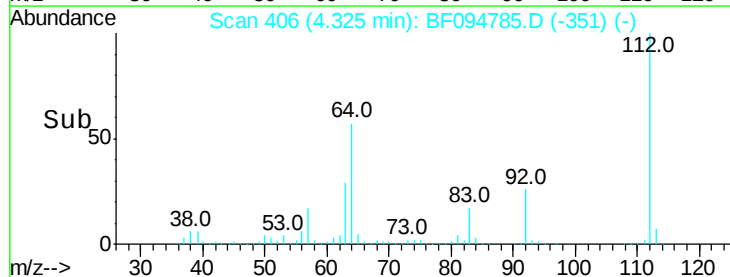
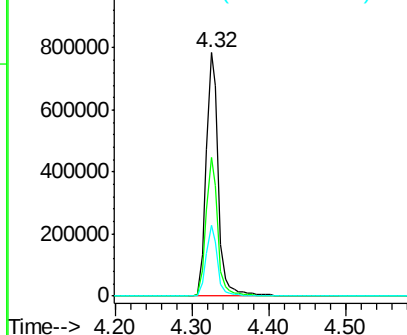
#5

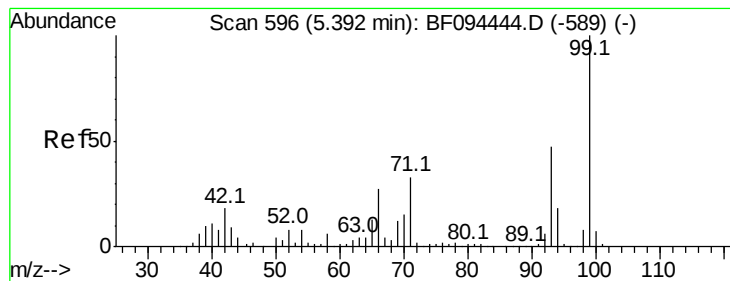
2-Fluorophenol
Concen: 149.92 ng
RT: 4.32 min Scan# 406
Delta R.T. 0.02 min
Lab File: BF094785.D
Acq: 2 May 2017 8:13

Tgt Ion:112 Resp: 858406
Ion Ratio Lower Upper
112 100
64 57.0 46.0 69.0
63 29.1 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: 156.61 ng

RT: 5.40 min Scan# 589

Delta R.T. 0.01 min

Lab File: BF094785.D

Acq: 2 May 2017 8:13

Instrument :

BNA_F

ClientSampleId :

AST-S(2.5-3)

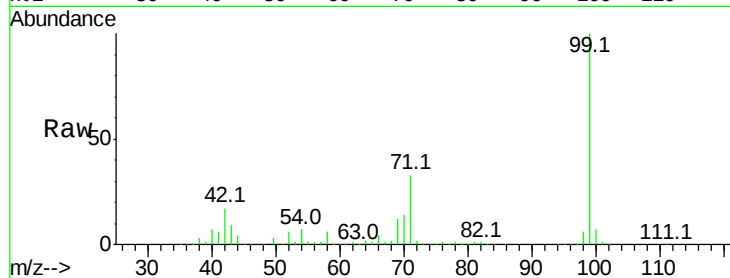
Tot Ion: 99 Resp: 1057148

Ion Ratio Lower Upper

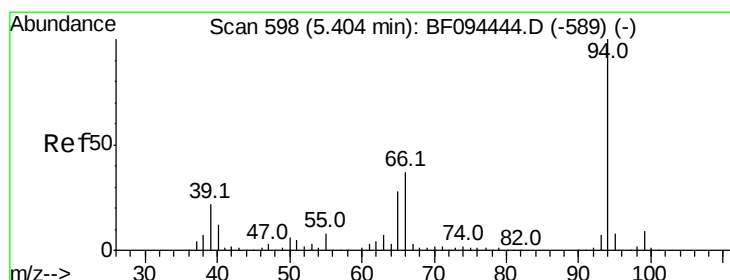
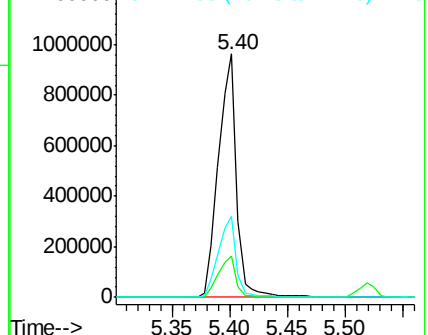
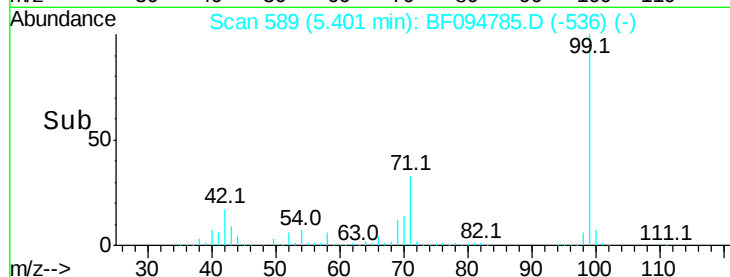
99 100

42 16.9 13.5 20.3

71 33.3 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: 3.29 ng

RT: 5.41 min Scan# 591

Delta R.T. 0.01 min

Lab File: BF094785.D

Acq: 2 May 2017 8:13

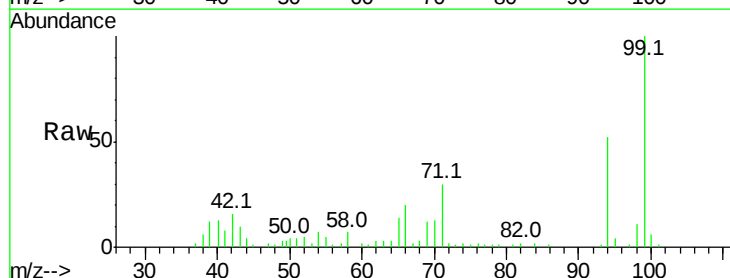
Tgt Ion: 94 Resp: 27278

Ion Ratio Lower Upper

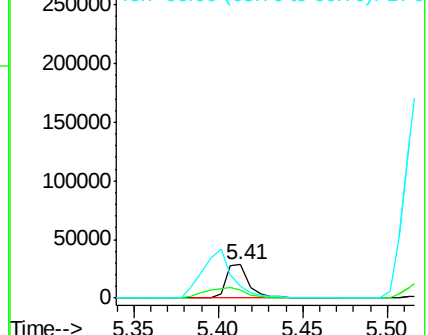
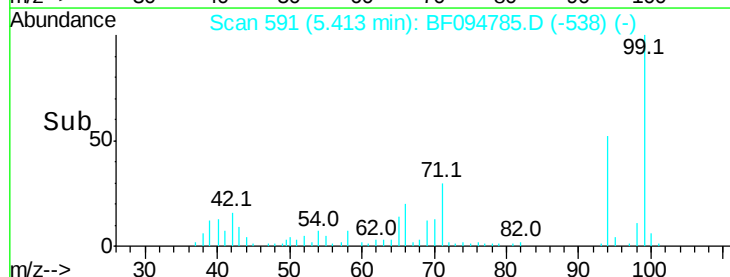
94 100

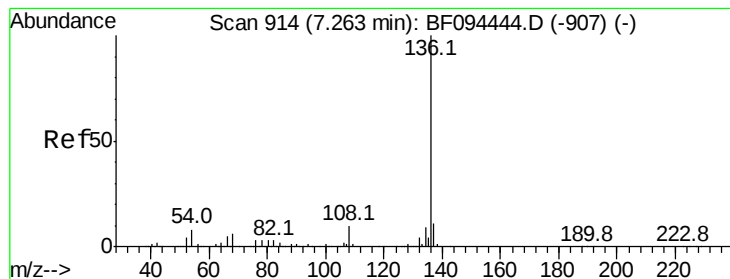
65 26.0 9.9 49.9

66 37.4 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: 7.25 min Scan# 904

Delta R.T. -0.01 min

Lab File: BF094785.D

Acq: 2 May 2017 8:13

Instrument :

BNA_F

ClientSampleId :

AST-S(2.5-3)

Tot Ion:136 Resp: 371368

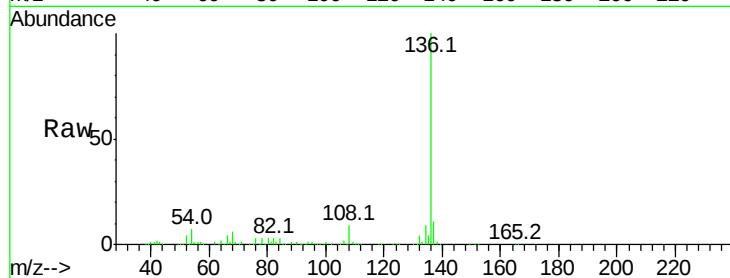
Ion Ratio Lower Upper

136 100

137 11.0 8.5 12.7

54 7.0 4.9 7.3

68 5.6 4.1 6.1

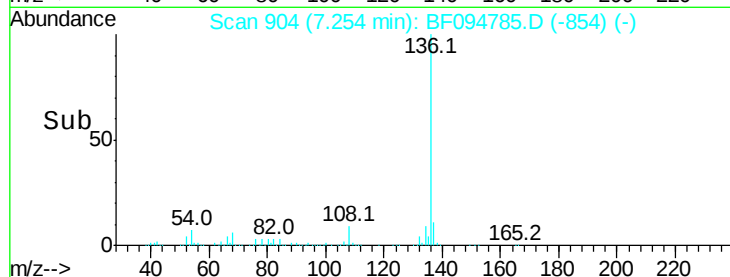


Abundance Ion 136.00 (135.70 to 136.70): E

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



Abundance

7.25

400000

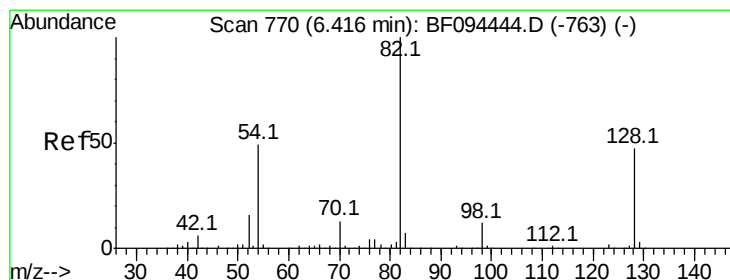
300000

200000

100000

0

Time-->



#23

Nitrobenzene-d5

Concen: 102.20 ng

RT: 6.41 min Scan# 761

Delta R.T. -0.00 min

Lab File: BF094785.D

Acq: 2 May 2017 8:13

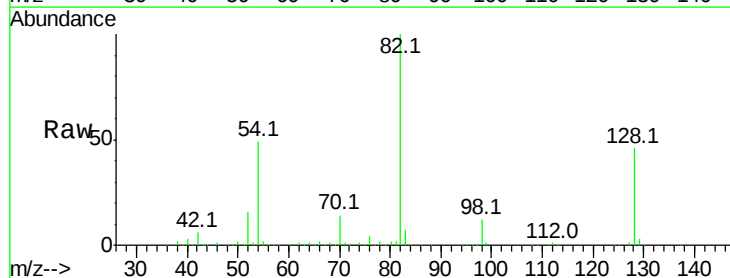
Tgt Ion: 82 Resp: 614637

Ion Ratio Lower Upper

82 100

128 46.2 34.0 51.0

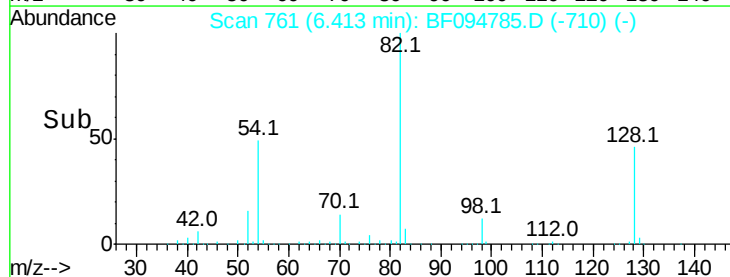
54 49.0 42.2 63.2



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



Abundance

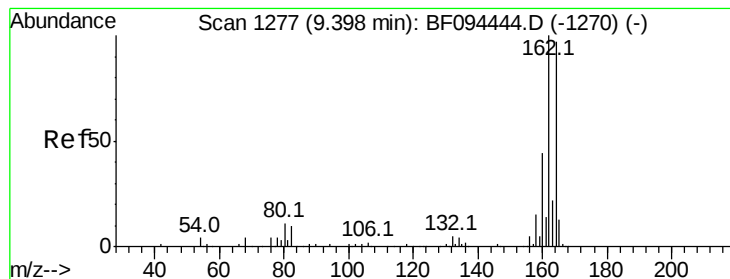
6.41

400000

200000

0

Time-->



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.39 min Scan# 1267

Delta R.T. -0.01 min

Lab File: BF094785.D

Acq: 2 May 2017 8:13

Instrument :

BNA_F

ClientSampleId :

AST-S(2.5-3)

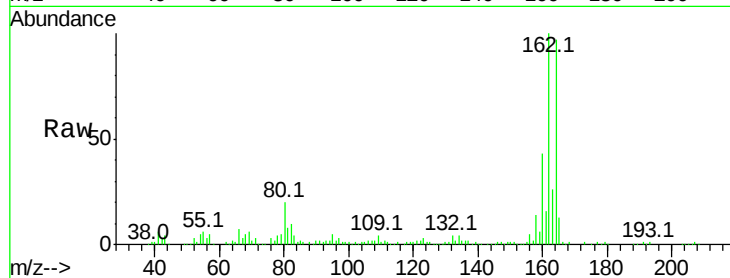
Tot Ion:164 Resp: 148258

Ion Ratio Lower Upper

164 100

162 103.0 82.6 123.8

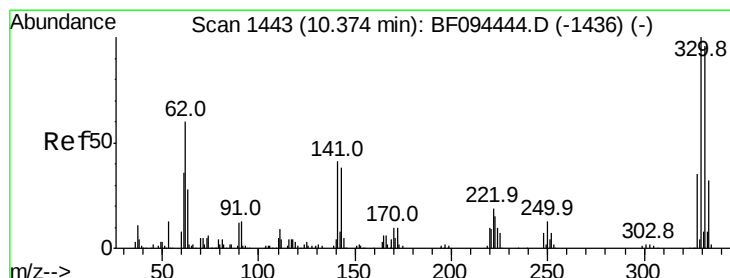
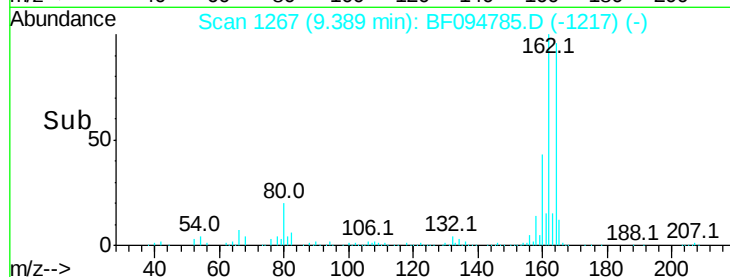
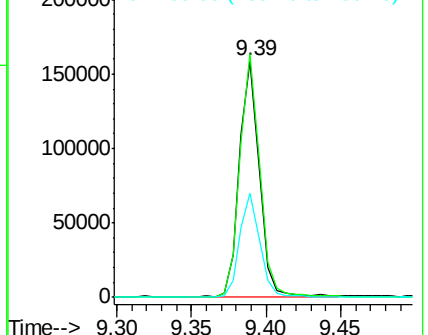
160 44.1 36.2 54.2



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: 144.89 ng

RT: 10.37 min Scan# 1434

Delta R.T. -0.00 min

Lab File: BF094785.D

Acq: 2 May 2017 8:13

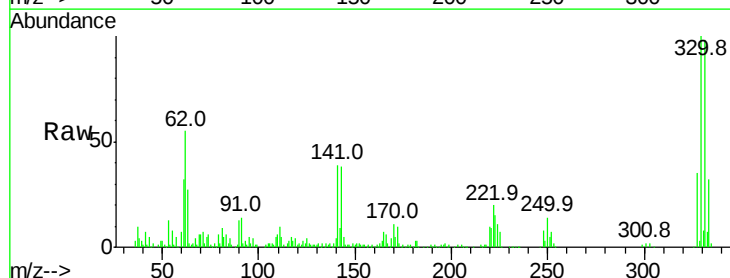
Tgt Ion:330 Resp: 168020

Ion Ratio Lower Upper

330 100

332 96.7 76.6 115.0

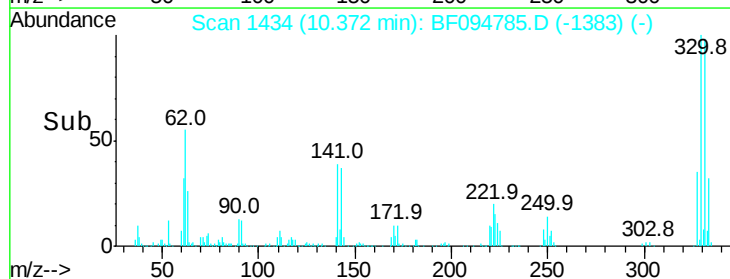
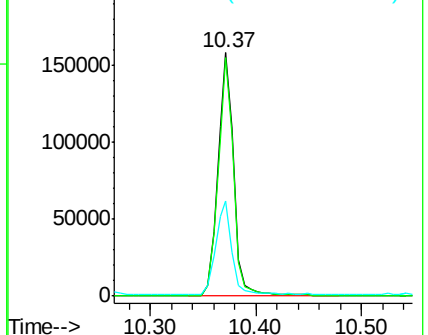
141 39.9 31.4 47.2

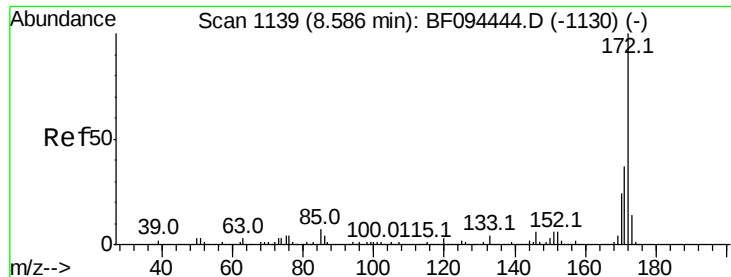


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





#44

2-Fluorobiphenyl

Concen: 104.41 ng

RT: 8.58 min Scan# 1129

Delta R.T. -0.01 min

Lab File: BF094785.D

Acq: 2 May 2017 8:13

Instrument :

BNA_F

ClientSampleId :

AST-S(2.5-3)

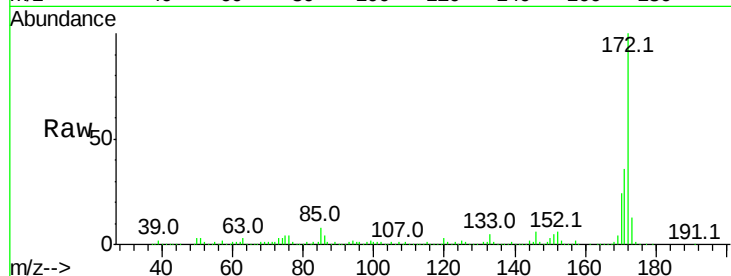
Tot Ion:172 Resp: 1052122

Ion Ratio Lower Upper

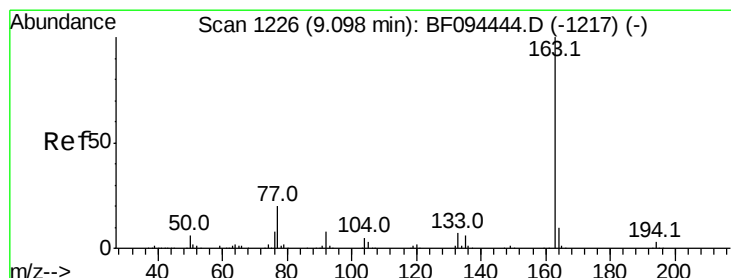
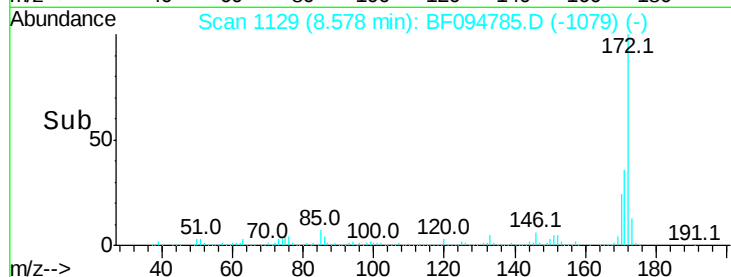
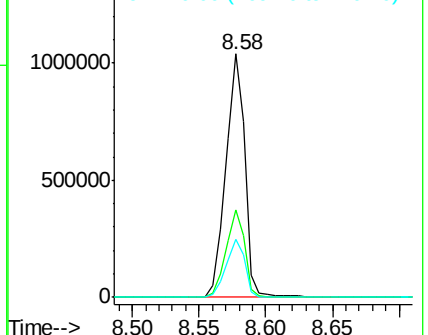
172 100

171 35.9 29.6 44.4

170 23.9 19.8 29.8



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: 23.26 ng

RT: 9.08 min Scan# 1215

Delta R.T. -0.01 min

Lab File: BF094785.D

Acq: 2 May 2017 8:13

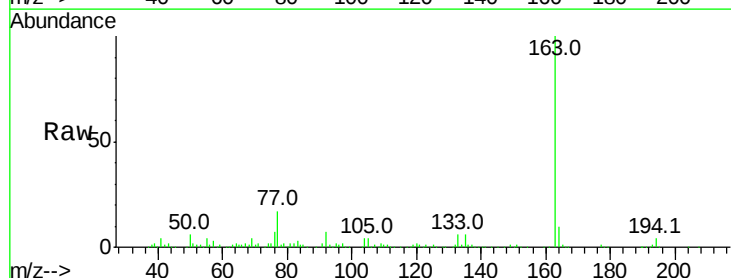
Tgt Ion:163 Resp: 256980

Ion Ratio Lower Upper

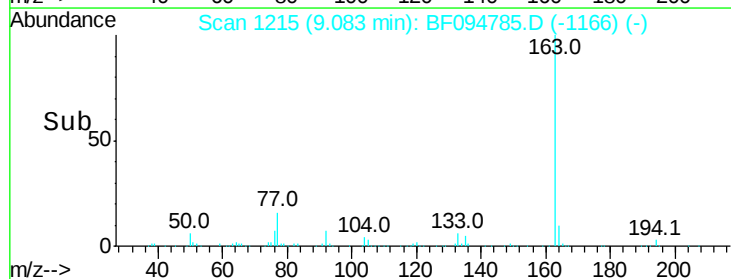
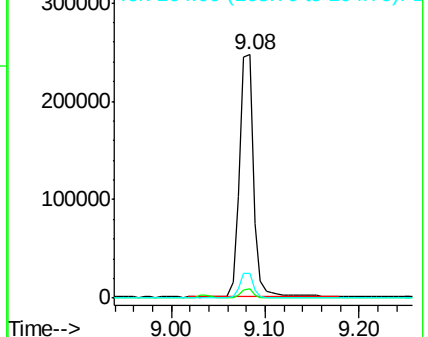
163 100

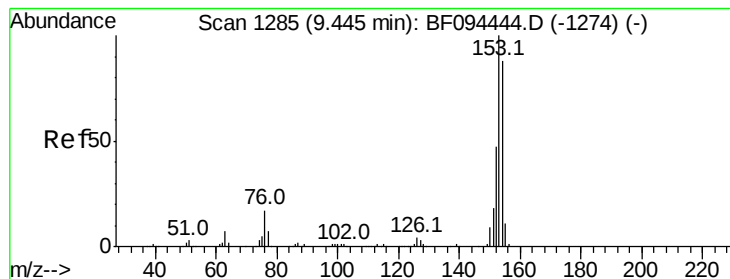
194 3.7 2.6 4.0

164 9.9 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





#51

Acenaphthene

Concen: 2.41 ng

RT: 9.43 min Scan# 1274

Delta R.T. -0.01 min

Lab File: BF094785.D

Acq: 2 May 2017 8:13

Instrument :

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ClientSampleId :

AST-S(2.5-3)

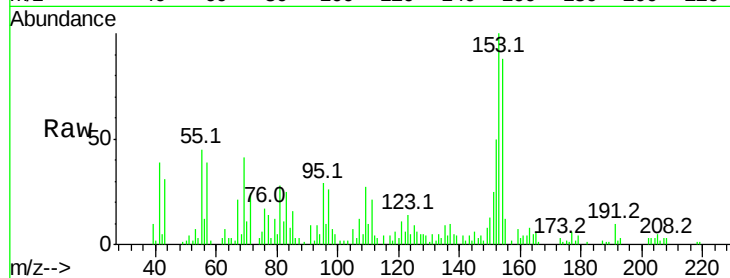
Tot Ion:154 Resp: 21662

Ion Ratio Lower Upper

154 100

153 113.4 90.5 135.7

152 56.1 43.6 65.4

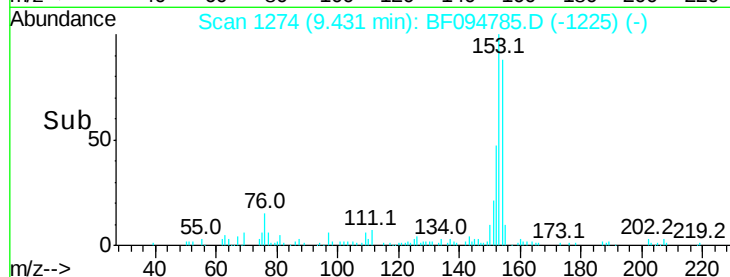


Abundance Ion 154.00 (153.70 to 154.70): E

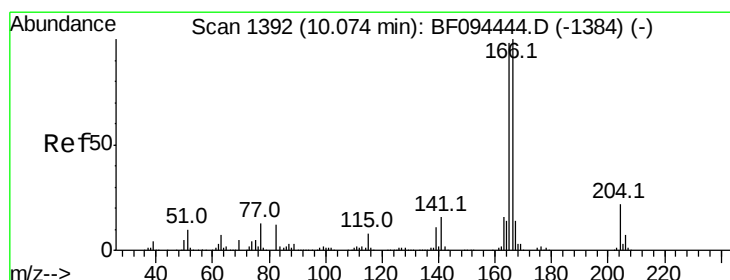
Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Time-->



Time-->



#57

Fluorene

Concen: 2.67 ng

RT: 10.07 min Scan# 1382

Delta R.T. -0.01 min

Lab File: BF094785.D

Acq: 2 May 2017 8:13

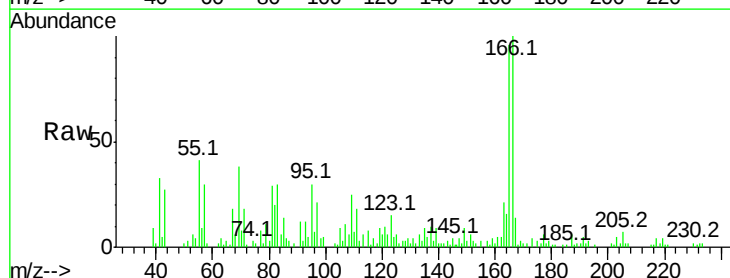
Tgt Ion:166 Resp: 27198

Ion Ratio Lower Upper

166 100

165 96.3 78.8 118.2

167 14.4 10.6 16.0

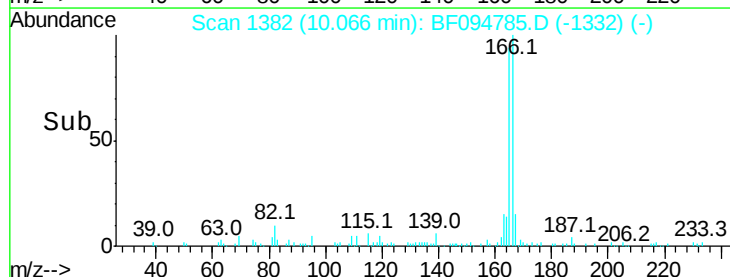


Abundance Ion 166.00 (165.70 to 166.70): E

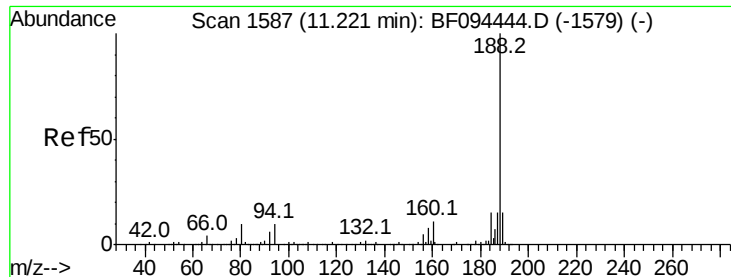
Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

Time-->



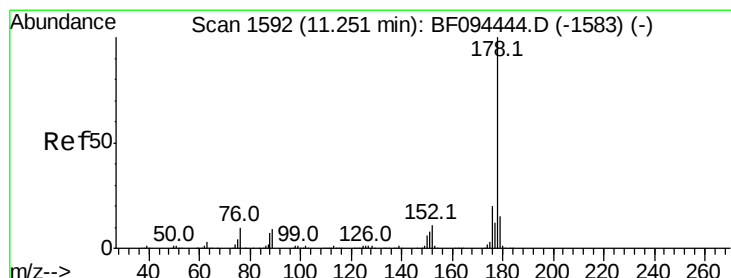
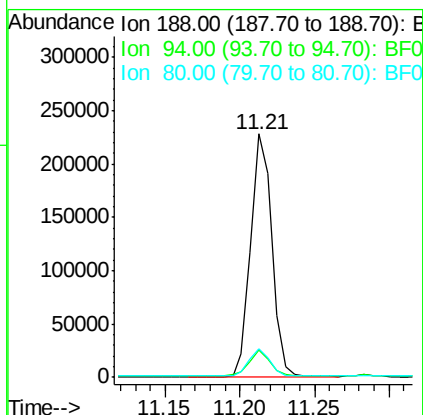
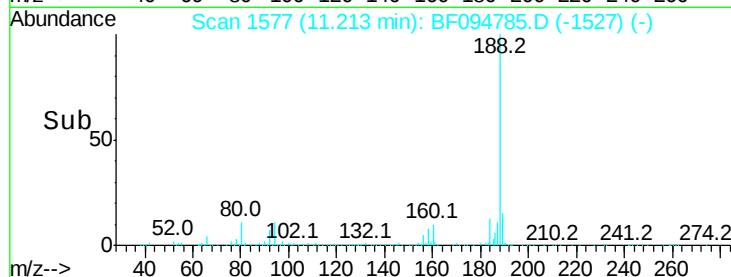
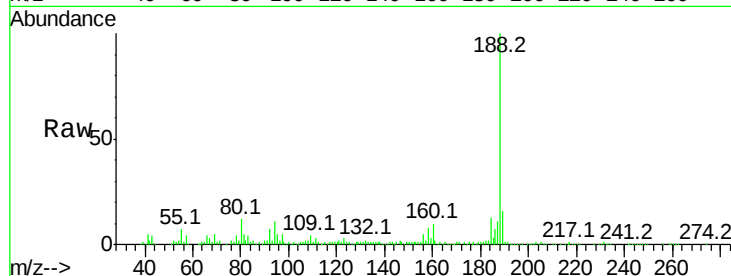
Time-->



#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.21 min Scan# 1577
Delta R.T. -0.01 min
Lab File: BF094785.D
Acq: 2 May 2017 8:13

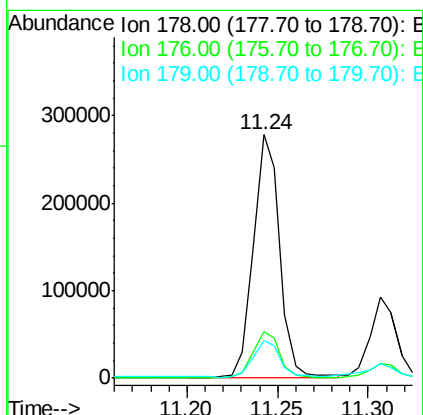
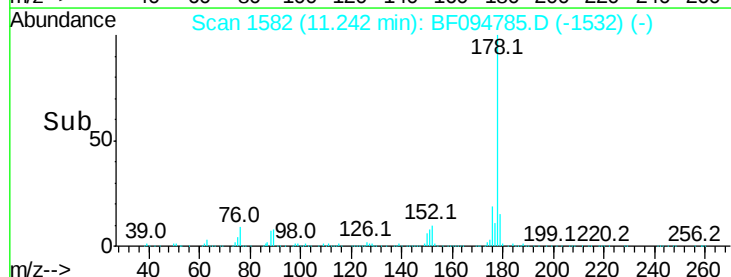
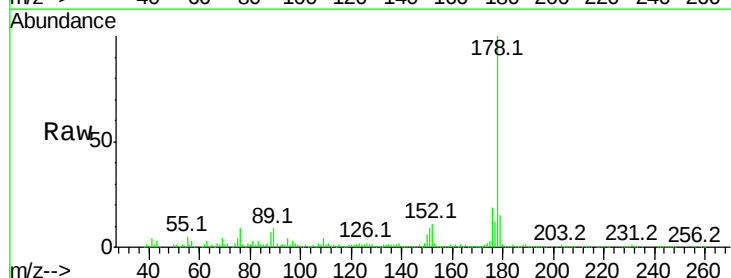
Instrument :
BNA_F
ClientSampleId :
AST-S(2.5-3)

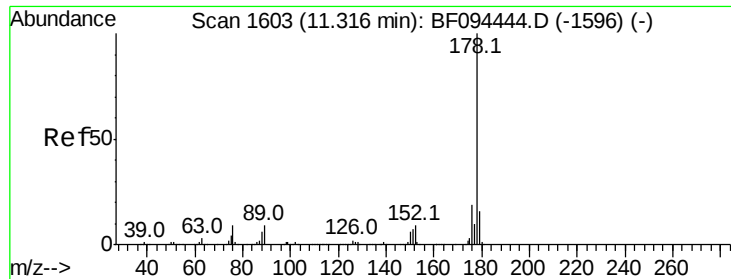
Tot Ion:188 Resp: 225558
Ion Ratio Lower Upper
188 100
94 11.4 9.4 14.2
80 11.5 10.2 15.2



#70
Phenanthrene
Concen: 21.75 ng
RT: 11.24 min Scan# 1582
Delta R.T. -0.01 min
Lab File: BF094785.D
Acq: 2 May 2017 8:13

Tgt Ion:178 Resp: 276289
Ion Ratio Lower Upper
178 100
176 18.9 16.2 24.4
179 15.3 12.6 19.0

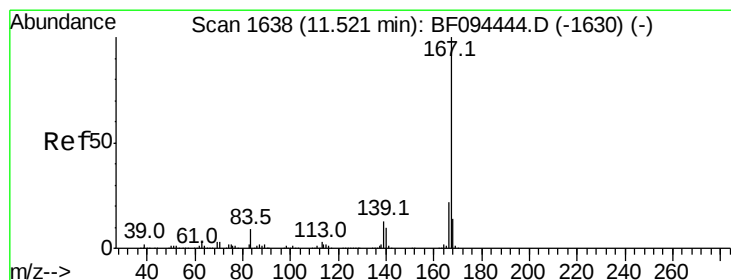
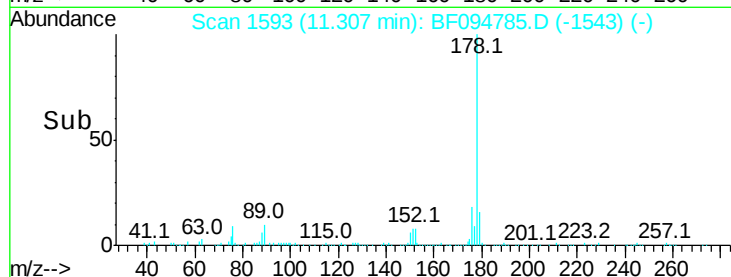
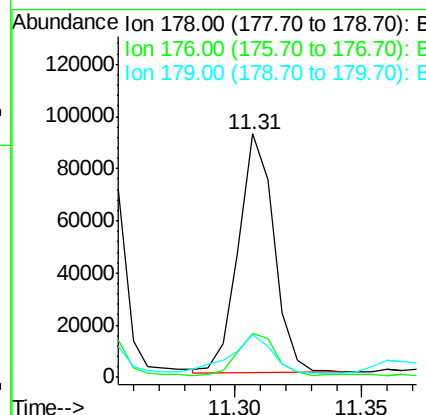
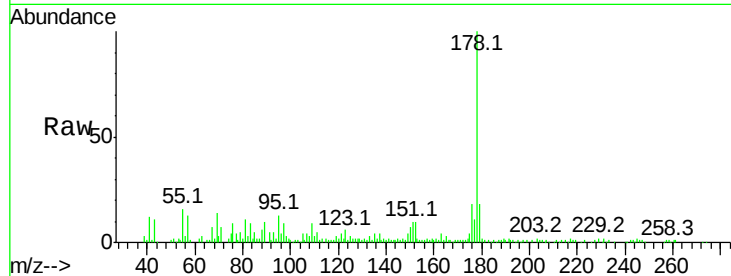




#71
 Anthracene
 Concen: 6.84 ng
 RT: 11.31 min Scan# 1593
 Delta R.T. -0.01 min
 Lab File: BF094785.D
 Acq: 2 May 2017 8:13

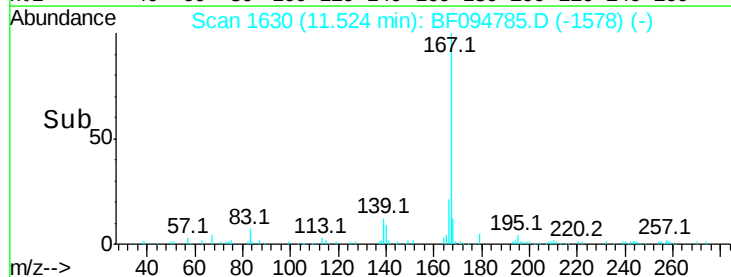
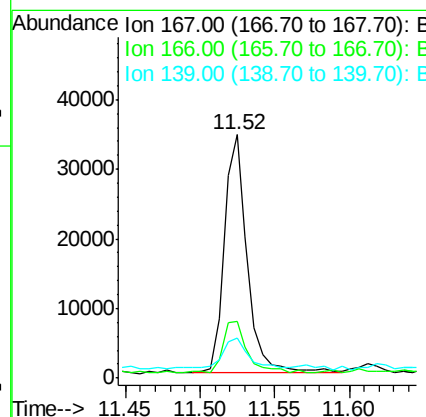
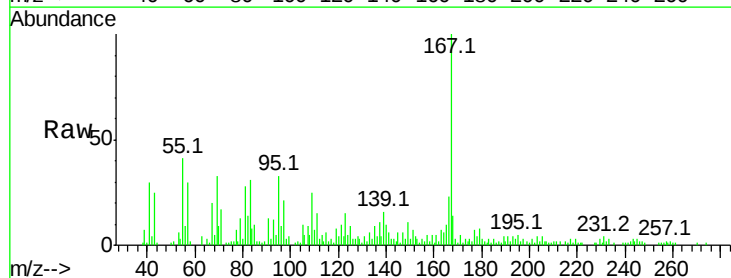
Instrument :
 BNA_F
 ClientSampleId :
 AST-S(2.5-3)

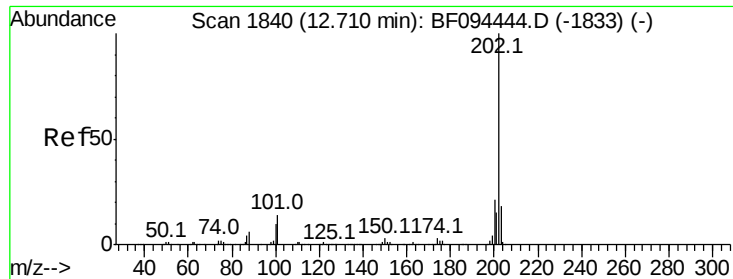
Tot Ion	Ratio	Lower	Upper
178	100		
176	18.3	15.8	23.8
179	17.5	12.7	19.1



#72
 Carbazole
 Concen: 3.00 ng
 RT: 11.52 min Scan# 1630
 Delta R.T. 0.00 min
 Lab File: BF094785.D
 Acq: 2 May 2017 8:13

Tgt Ion	Ratio	Lower	Upper
167	100		
166	23.2	18.1	27.1
139	16.4	11.7	17.5





#74

Fluoranthene

Concen: 30.05 ng

RT: 12.71 min Scan# 1831

Delta R.T. -0.00 min

Lab File: BF094785.D

Acq: 2 May 2017 8:13

Instrument :

BNA_F

ClientSampleId :

AST-S(2.5-3)

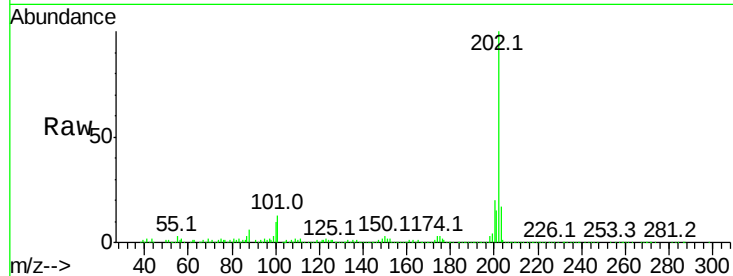
Tot Ion:202 Resp: 395630

Ion Ratio Lower Upper

202 100

101 13.4 0.0 33.2

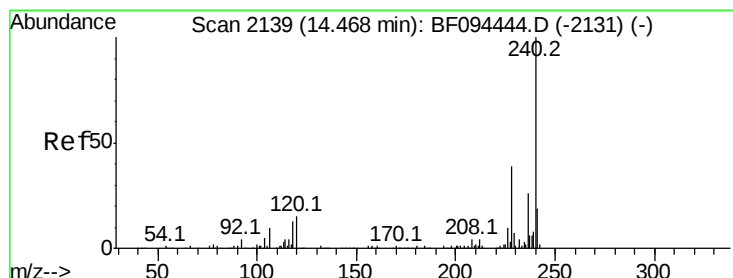
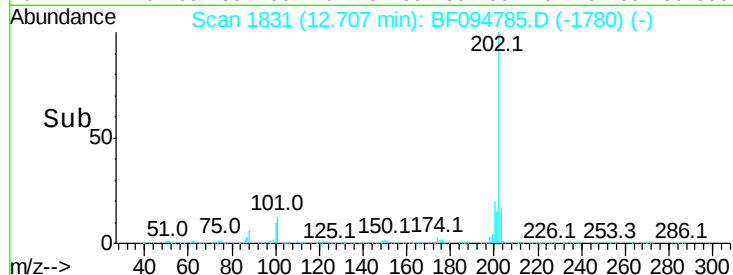
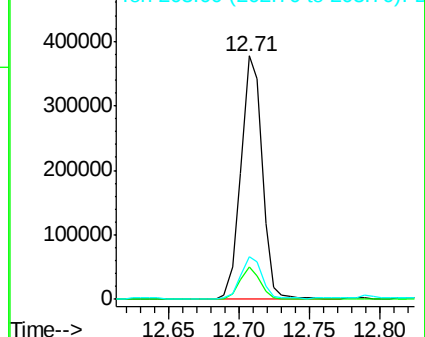
203 17.3 0.0 38.1



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: 14.47 min Scan# 2131

Delta R.T. 0.00 min

Lab File: BF094785.D

Acq: 2 May 2017 8:13

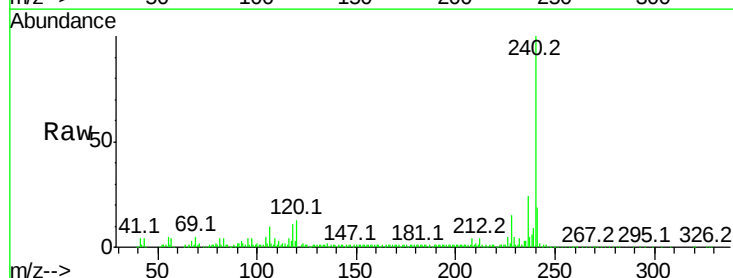
Tgt Ion:240 Resp: 200262

Ion Ratio Lower Upper

240 100

120 13.4 5.8 8.8#

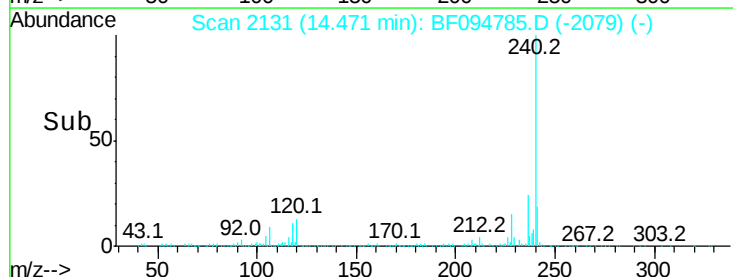
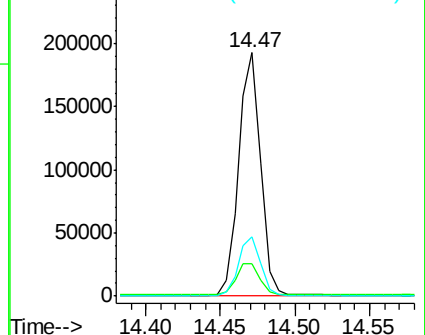
236 24.2 20.5 30.7

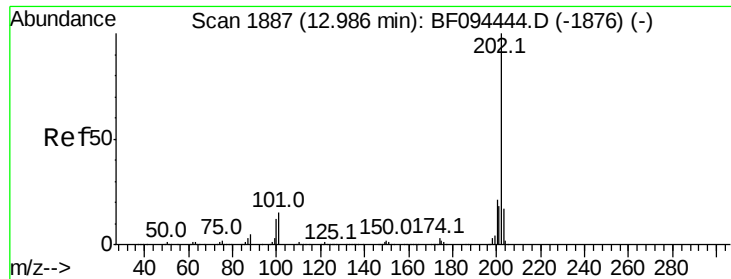


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

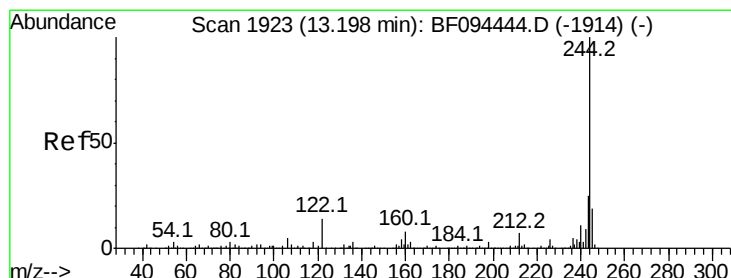
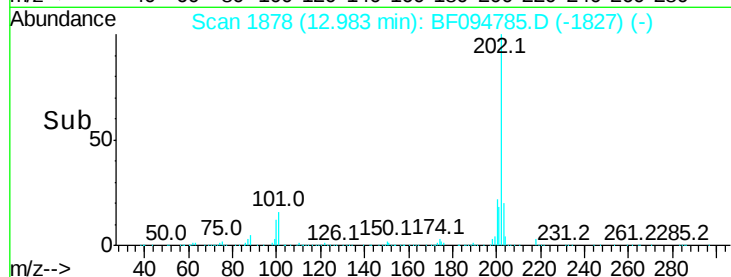
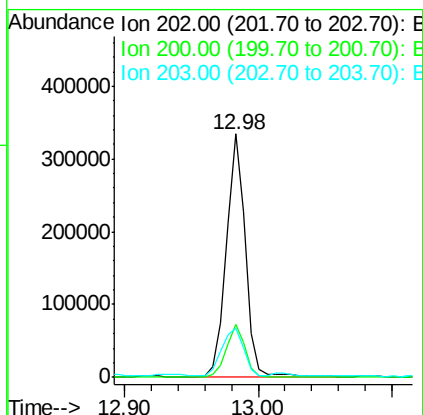
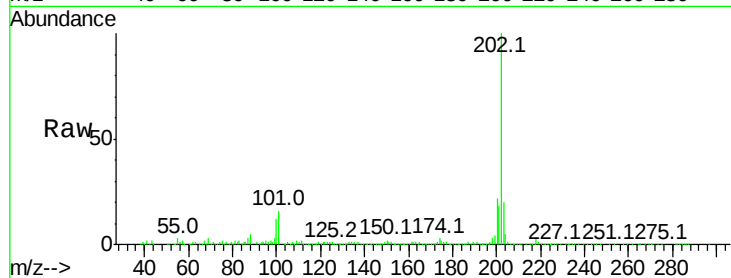




#77
Pvrene
Concen: 24.02 ng
RT: 12.98 min Scan# 1878
Delta R.T. -0.00 min
Lab File: BF094785.D
Acq: 2 May 2017 8:13

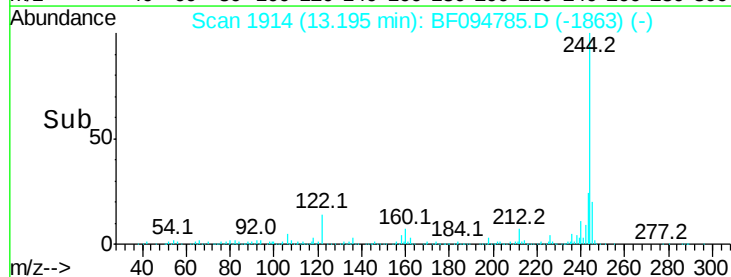
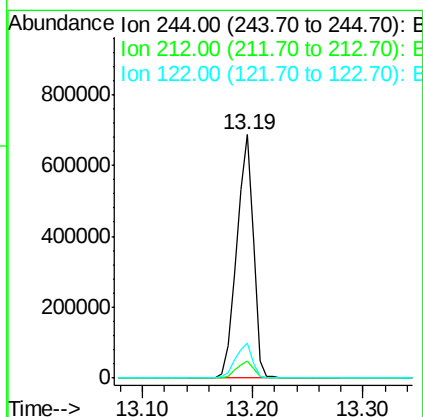
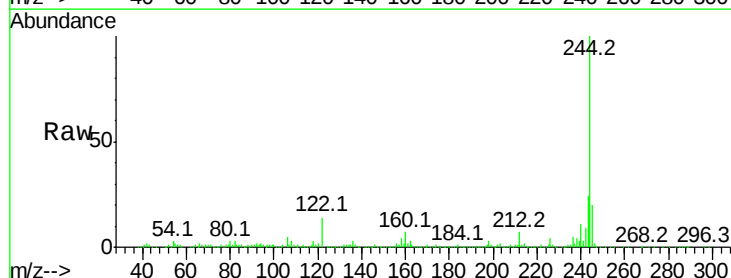
Instrument :
BNA_F
ClientSampleId :
AST-S(2.5-3)

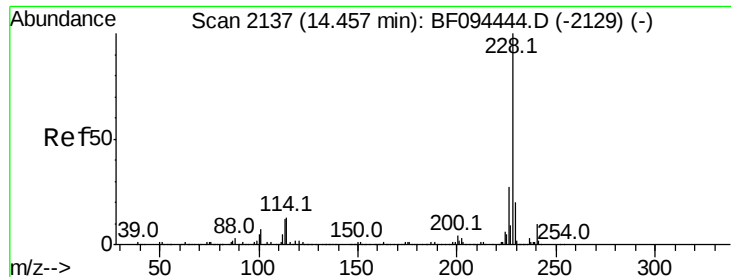
Tot Ion:202 Resp: 336074
Ion Ratio Lower Upper
202 100
200 21.6 17.6 26.4
203 20.1 14.4 21.6



#78
Terphenyl-d14
Concen: 97.68 ng
RT: 13.19 min Scan# 1914
Delta R.T. -0.00 min
Lab File: BF094785.D
Acq: 2 May 2017 8:13

Tgt Ion:244 Resp: 731815
Ion Ratio Lower Upper
244 100
212 7.2 6.0 9.0
122 14.2 10.3 15.5





#80

Benzo(a)anthracene

Concen: 16.29 ng

RT: 14.46 min Scan# 2129

Delta R.T. 0.00 min

Lab File: BF094785.D

Acq: 2 May 2017 8:13

Instrument :

BNA_F

ClientSampleId :

AST-S(2.5-3)

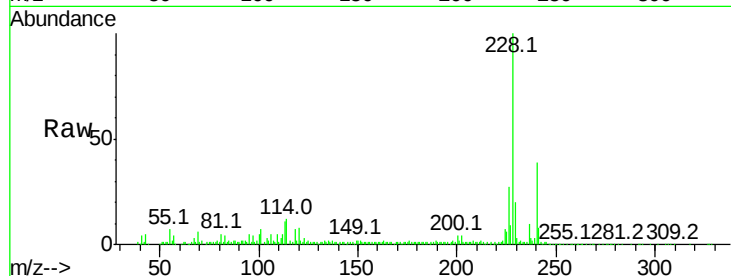
Tot Ion:228 Resp: 189611

Ion Ratio Lower Upper

228 100

226 27.2 22.6 33.8

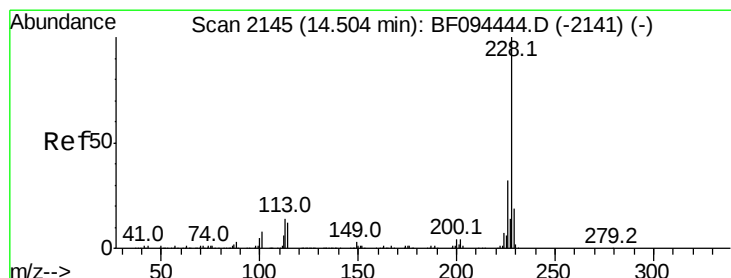
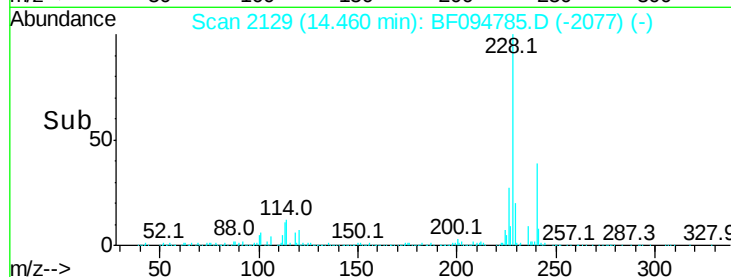
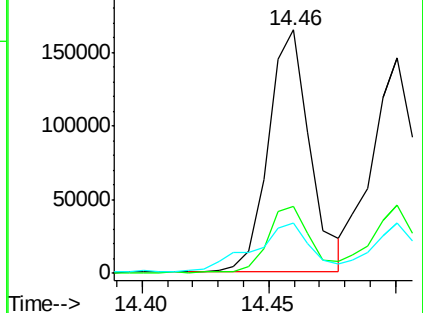
229 20.5 16.3 24.5



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: 16.12 ng

RT: 14.50 min Scan# 2136

Delta R.T. -0.00 min

Lab File: BF094785.D

Acq: 2 May 2017 8:13

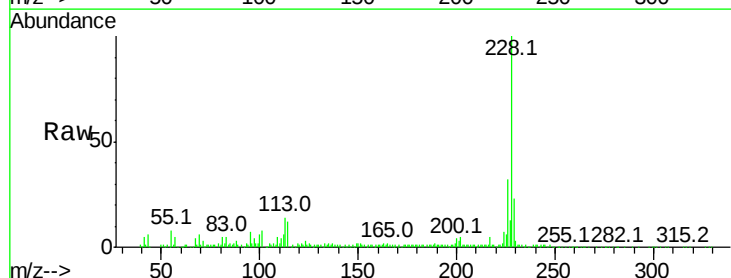
Tgt Ion:228 Resp: 171448

Ion Ratio Lower Upper

228 100

226 31.7 24.9 37.3

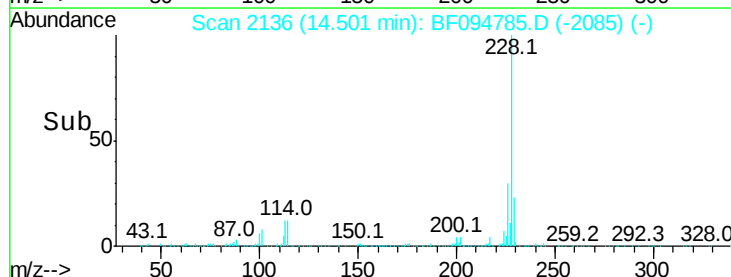
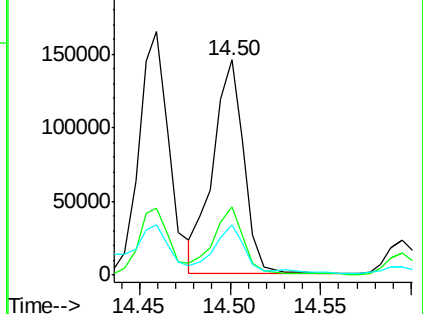
229 23.4 15.8 23.6

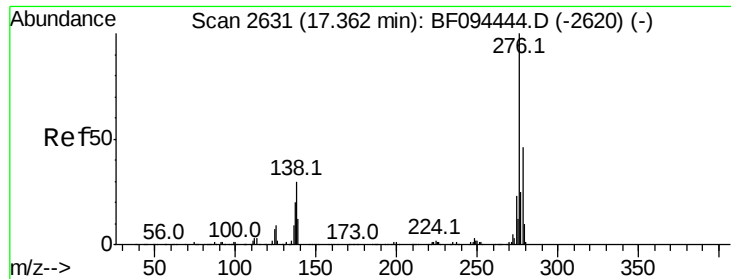


Abundance Ion 228.00 (227.70 to 228.70): E

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: 6.23 ng

RT: 17.39 min Scan# 2628

Delta R.T. 0.03 min

Lab File: BF094785.D

Acq: 2 May 2017 8:13

Instrument :

BNA_F

ClientSampleId :

AST-S(2.5-3)

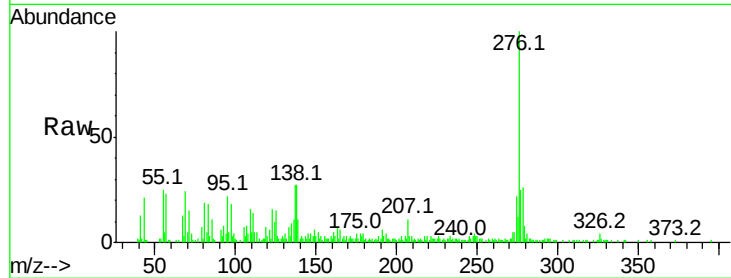
Tot Ion:276 Resp: 63072

Ion Ratio Lower Upper

276 100

138 30.8 27.8 41.6

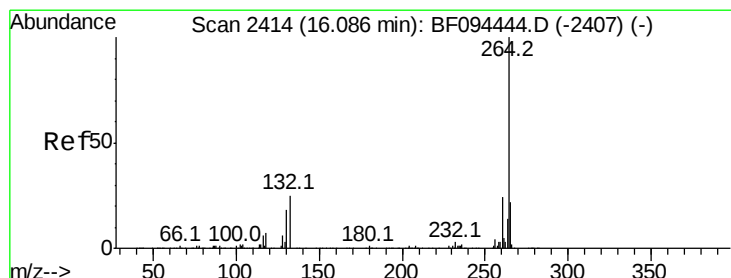
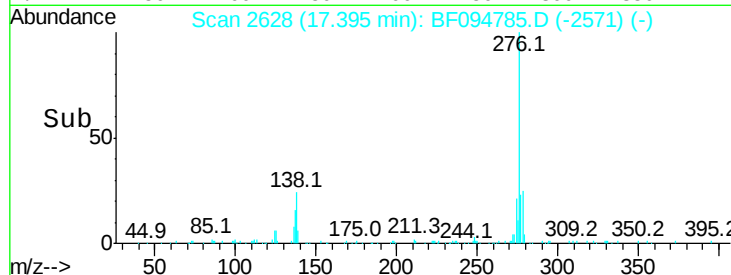
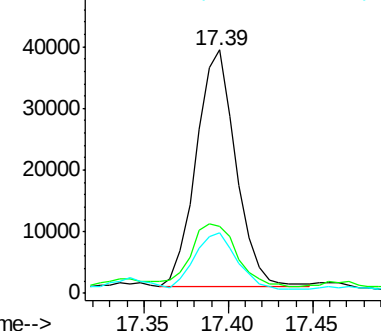
277 25.0 20.2 30.4



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: 16.10 min Scan# 2408

Delta R.T. 0.01 min

Lab File: BF094785.D

Acq: 2 May 2017 8:13

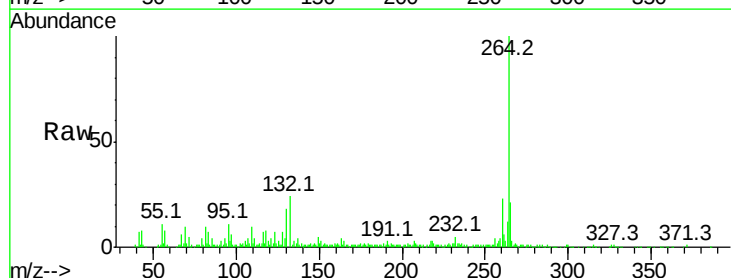
Tgt Ion:264 Resp: 134635

Ion Ratio Lower Upper

264 100

260 22.8 19.5 29.3

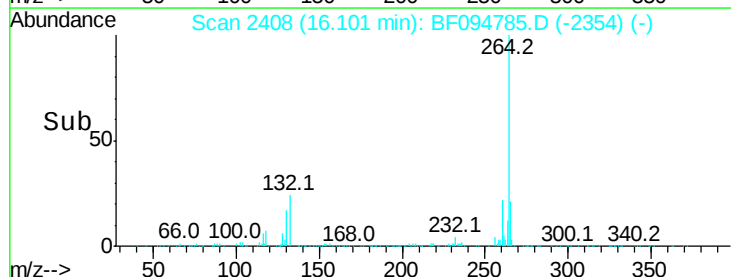
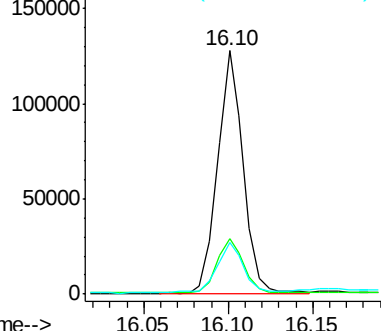
265 21.3 17.2 25.8

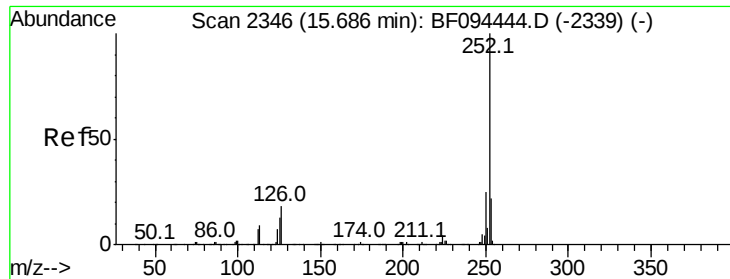


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 22.43 ng m

RT: 15.70 min Scan# 2340

Delta R.T. 0.01 min

Lab File: BF094785.D

Acq: 2 May 2017 8:13

Instrument :

BNA_F

ClientSampleId :

AST-S(2.5-3)

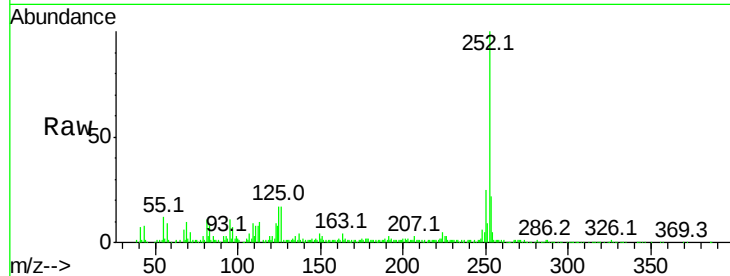
Tot Ion:252 Resp: 184764

Ion Ratio Lower Upper

252 100

253 22.2 18.1 27.1

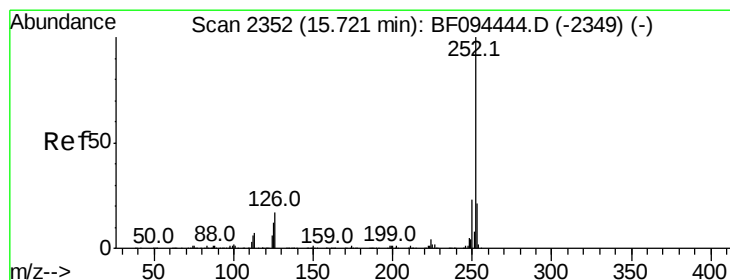
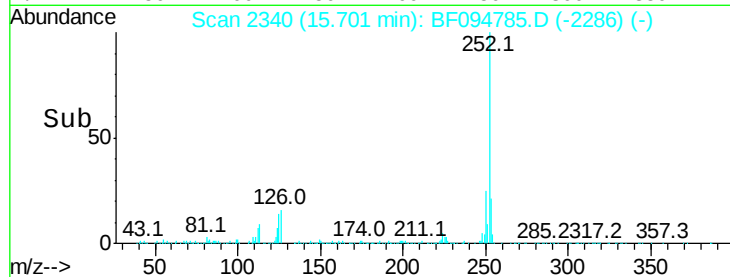
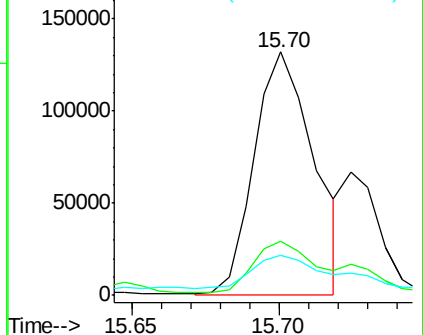
125 16.6 9.8 14.8#



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: 7.29 ng m

RT: 15.72 min Scan# 2344

Delta R.T. 0.00 min

Lab File: BF094785.D

Acq: 2 May 2017 8:13

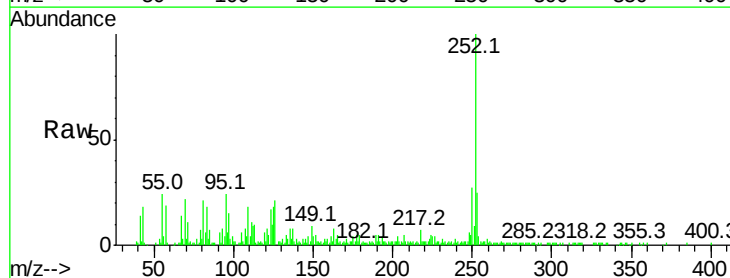
Tgt Ion:252 Resp: 56791

Ion Ratio Lower Upper

252 100

253 25.1 18.4 27.6

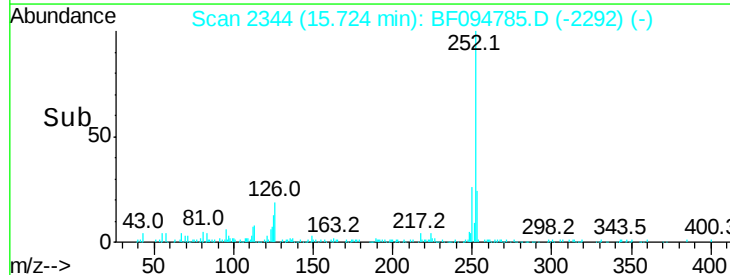
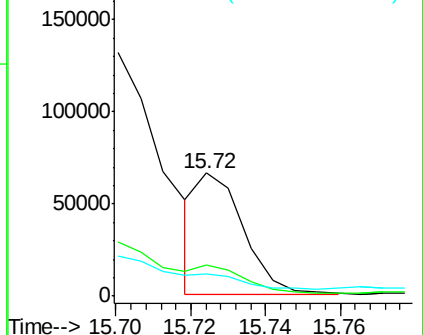
125 18.4 13.1 19.7

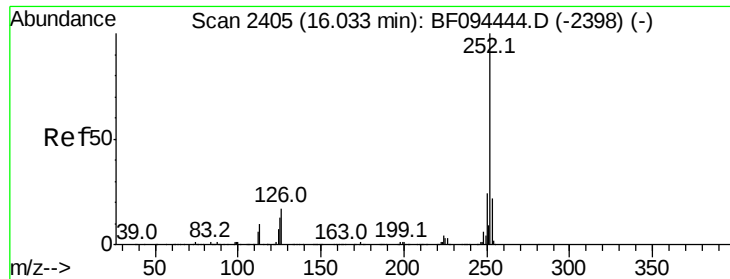


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 14.93 ng

RT: 16.05 min Scan# 2399

Delta R.T. 0.01 min

Lab File: BF094785.D

Acq: 2 May 2017 8:13

Instrument :

BNA_F

ClientSampleId :

AST-S(2.5-3)

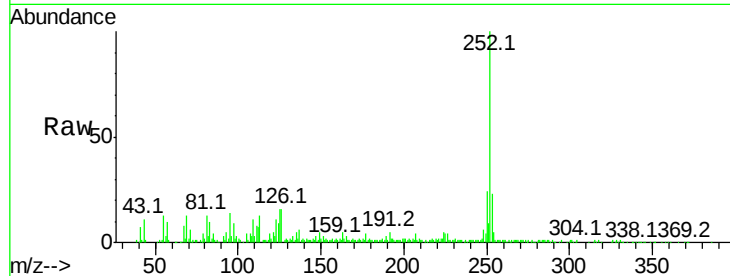
Tot Ion:252 Resp: 114382

Ion Ratio Lower Upper

252 100

253 22.9 17.5 26.3

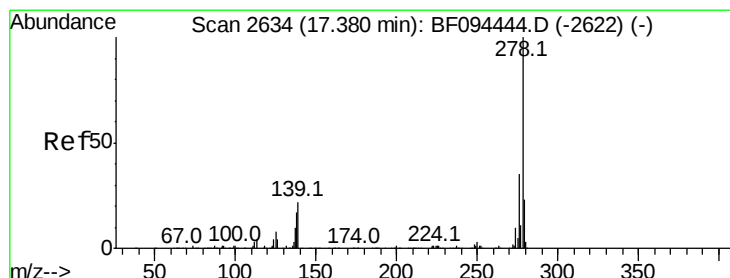
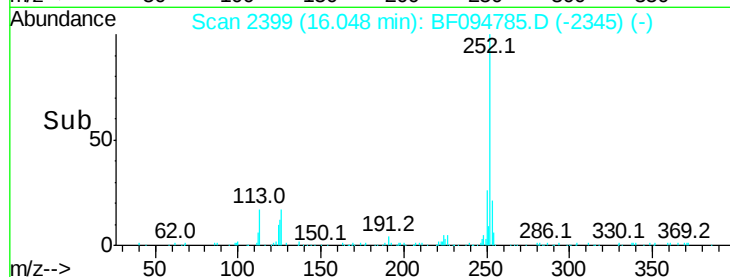
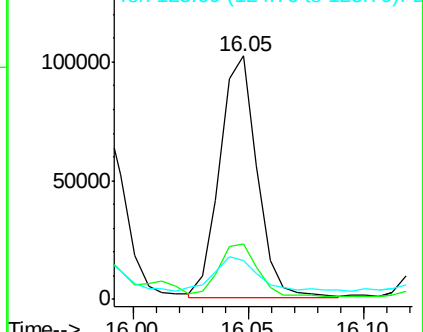
125 15.9 11.0 16.4



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: 3.03 ng

RT: 17.39 min Scan# 2628

Delta R.T. 0.01 min

Lab File: BF094785.D

Acq: 2 May 2017 8:13

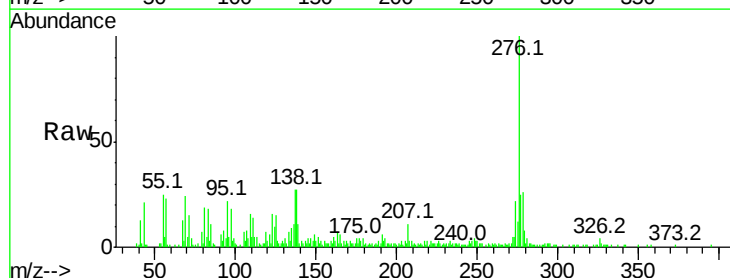
Tgt Ion:278 Resp: 19267

Ion Ratio Lower Upper

278 100

139 41.3 16.6 24.8#

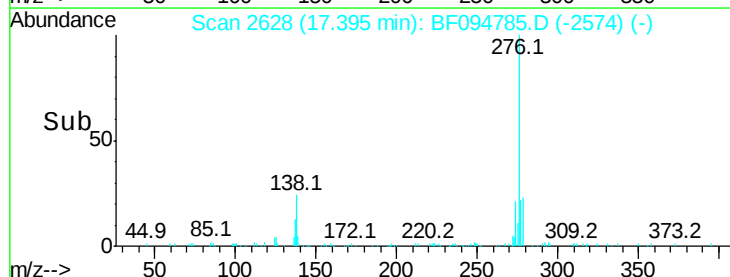
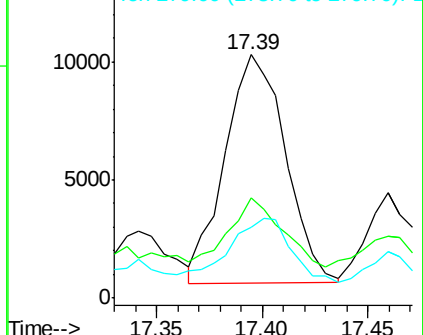
279 29.1 19.3 28.9#

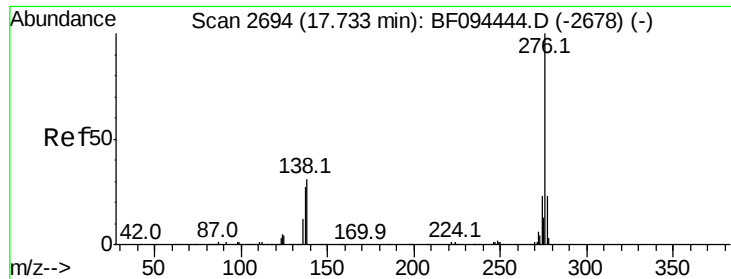


Abundance Ion 278.00 (277.70 to 278.70): E

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: 11.25 ng

RT: 17.77 min Scan# 2692

Delta R.T. 0.04 min

Lab File: BF094785.D

Acq: 2 May 2017 8:13

Instrument :

BNA_F

ClientSampleId :

AST-S(2.5-3)

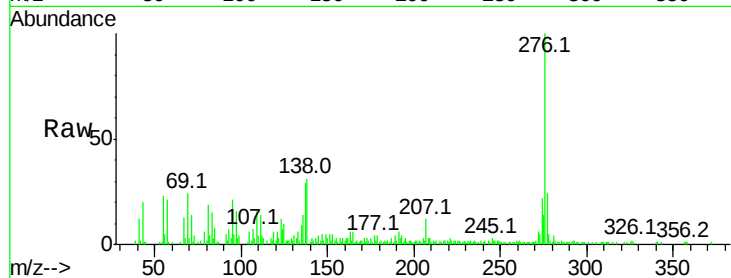
Tot Ion:276 Resp: 72873

Ion Ratio Lower Upper

276 100

277 24.1 18.6 28.0

138 30.9 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

