

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF053116\
 Data File : BF087612.D
 Acq On : 1 Jun 2016 8:53
 Operator : UM/SJ
 Sample : H3190-04DL 5X
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 CHS-STA-1705(0-4)

Quant Time: Jun 01 13:35:44 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF052316.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 25 16:26:52 2016
 Response via : Initial Calibration

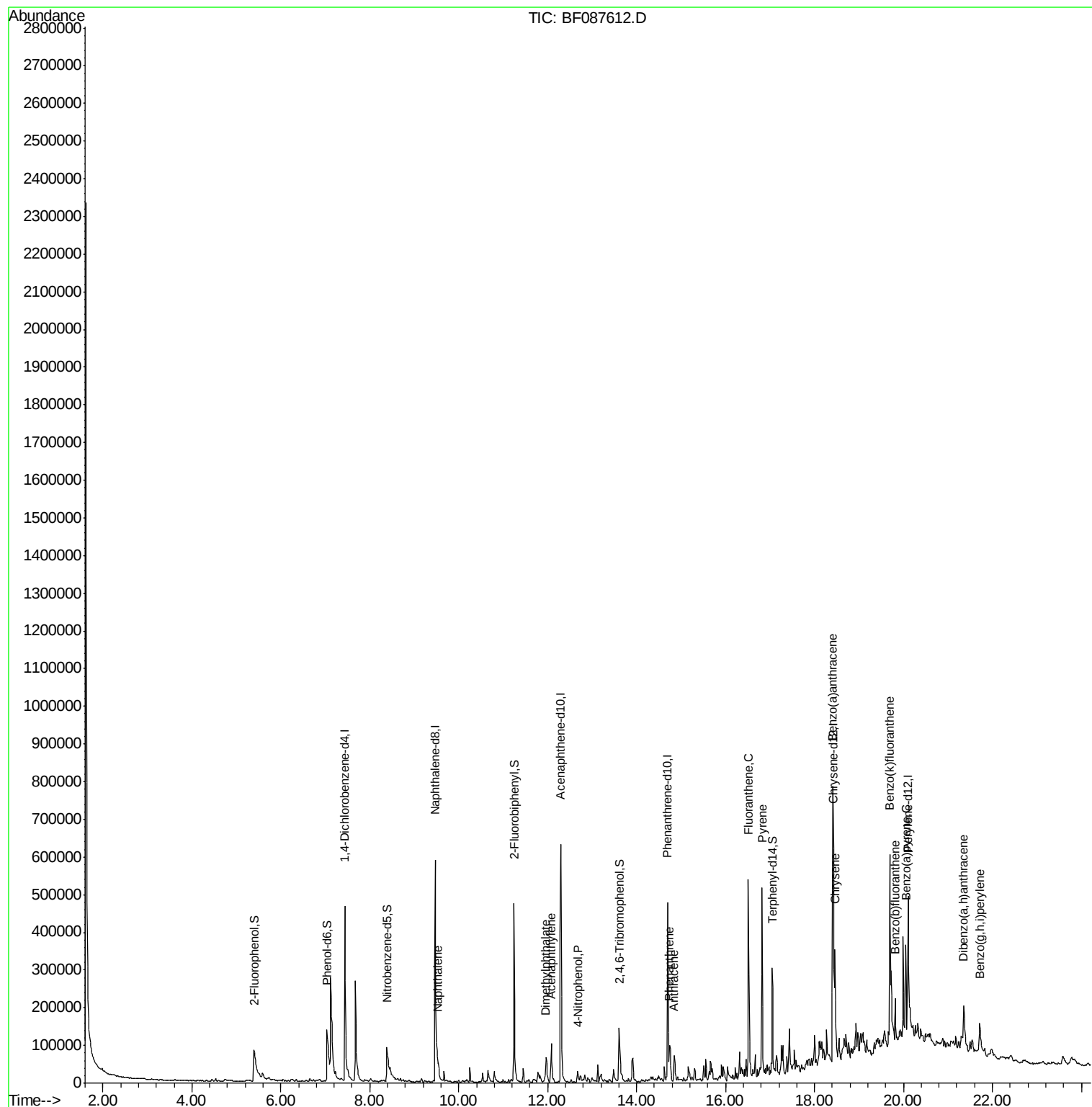
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.44	152	104750	20.00	ng	-0.08
21) Naphthalene-d8	9.47	136	425865	20.00	ng	-0.08
38) Acenaphthene-d10	12.30	164	181559	20.00	ng	-0.09
63) Phenanthrene-d10	14.70	188	284203	20.00	ng	-0.08
75) Chrysene-d12	18.42	240	226931	20.00	ng	-0.06
86) Perylene-d12	20.10	264	186987	20.00	ng	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.39	112	101022	16.95	ng	-0.02
7) Phenol-d6	7.04	99	159659	19.82	ng	-0.03
23) Nitrobenzene-d5	8.39	82	114270	13.52	ng	-0.06
41) 2,4,6-Tribromophenol	13.61	330	27583	15.81	ng	-0.07
44) 2-Fluorobiphenyl	11.24	172	203321	15.79	ng	-0.09
78) Terphenyl-d14	17.05	244	114683	10.74	ng	-0.08
Target Compounds						Qvalue
31) Naphthalene	9.52	128	45349	2.13	ng	99
48) Acenaphthylene	12.08	152	74561	4.03	ng	99
49) Dimethylphthalate	11.95	163	31238	2.15	ng	99
55) 4-Nitrophenol	12.67	139	6375	4.44	ng	# 14
70) Phenanthrene	14.74	178	72675	4.62	ng	98
71) Anthracene	14.85	178	52181	3.28	ng	99
74) Fluoranthene	16.51	202	285640	18.09	ng	94
77) Pyrene	16.82	202	262919	16.10	ng	99
80) Benzo(a)anthracene	18.41	228	186285	14.43	ng	93
82) Chrysene	18.46	228	164467	12.84	ng	100
87) Benzo(b)fluoranthene	19.82	252	59779	5.02	ng	96
88) Benzo(k)fluoranthene	19.69	252	379662	37.03	ng	99
89) Benzo(a)pyrene	20.06	252	144999	14.08	ng	94
90) Dibenzo(a,h)anthracene	21.35	278	28025	3.19	ng	96
91) Benzo(g,h,i)perylene	21.71	276	74461	8.59	ng	# 89

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

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 7.44 min Scan# 512

Delta R.T. -0.08 min

Lab File: BF087612.D

Acq: 1 Jun 2016 8:53

Instrument :

BNA_F

ClientSampleId :

CHS-STA-1705(0-4)

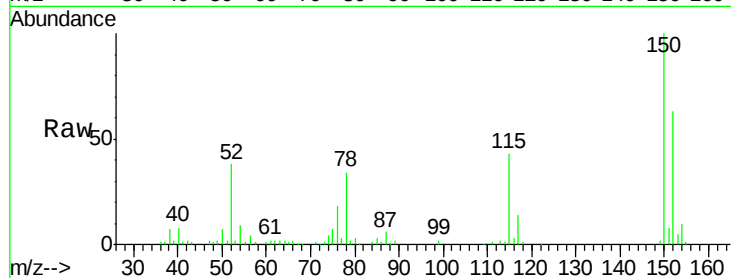
Tgt Ion:152 Resp: 104750

Ion Ratio Lower Upper

152 100

150 158.8 125.8 188.6

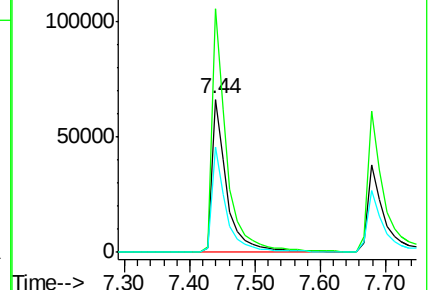
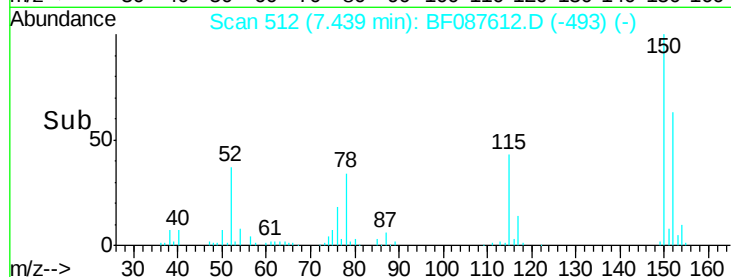
115 68.9 51.5 77.3



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol

Concen: 16.95 ng

RT: 5.39 min Scan# 333

Delta R.T. -0.02 min

Lab File: BF087612.D

Acq: 1 Jun 2016 8:53

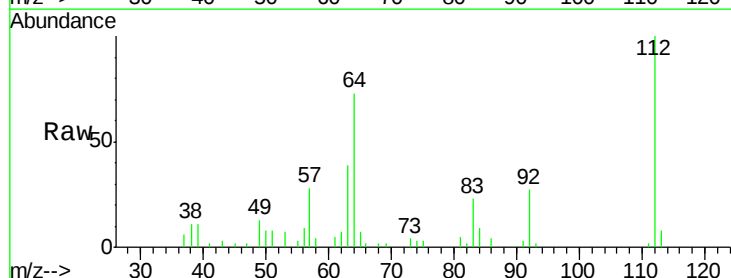
Tgt Ion:112 Resp: 101022

Ion Ratio Lower Upper

112 100

64 73.3 52.1 78.1

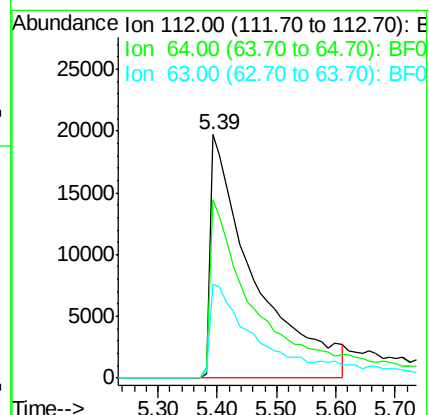
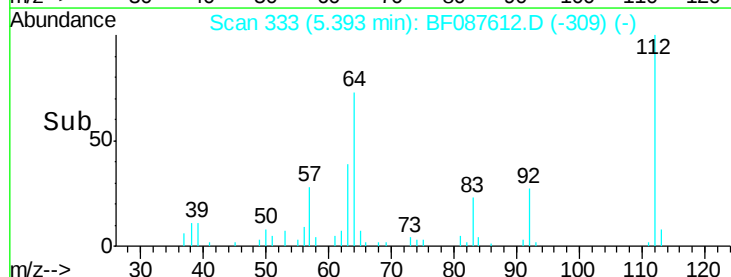
63 38.8 25.7 38.5#



Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 19.82 ng

RT: 7.04 min Scan# 477

Delta R.T. -0.03 min

Lab File: BF087612.D

Acq: 1 Jun 2016 8:53

Instrument :

BNA_F

ClientSampleId :

CHS-STA-1705(0-4)

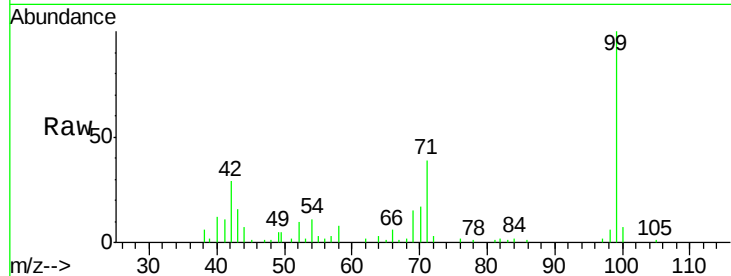
Tgt Ion: 99 Resp: 159659

Ion Ratio Lower Upper

99 100

42 28.9 13.6 20.4#

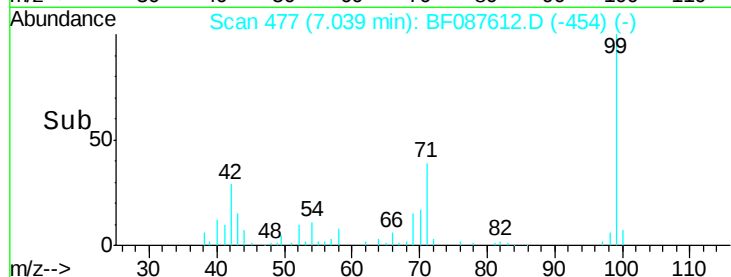
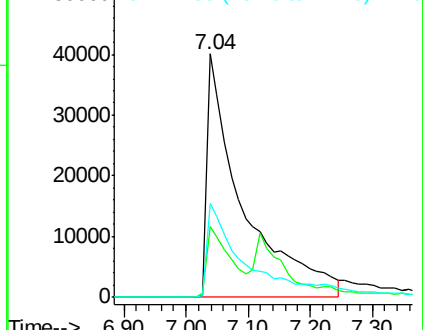
71 38.7 24.6 36.8#



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 9.47 min Scan# 690

Delta R.T. -0.08 min

Lab File: BF087612.D

Acq: 1 Jun 2016 8:53

Tgt Ion: 136 Resp: 425865

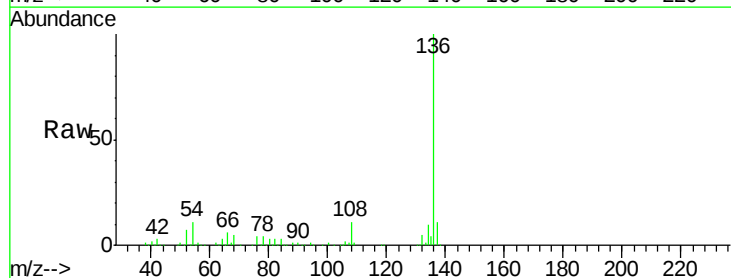
Ion Ratio Lower Upper

136 100

137 10.7 8.8 13.2

54 10.7 5.0 7.4#

68 5.0 4.4 6.6

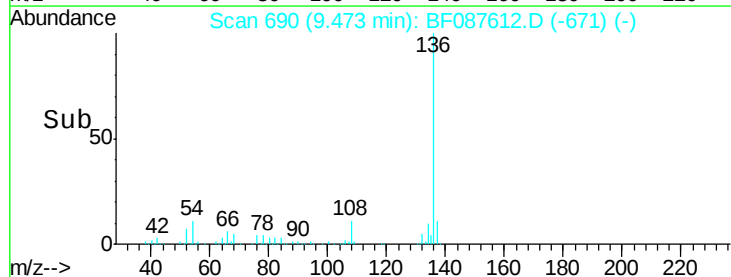
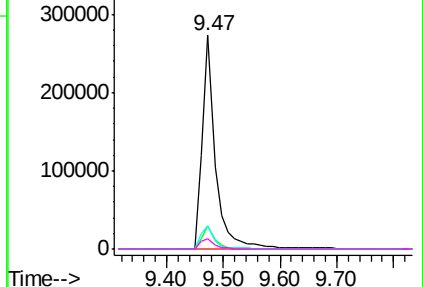


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0

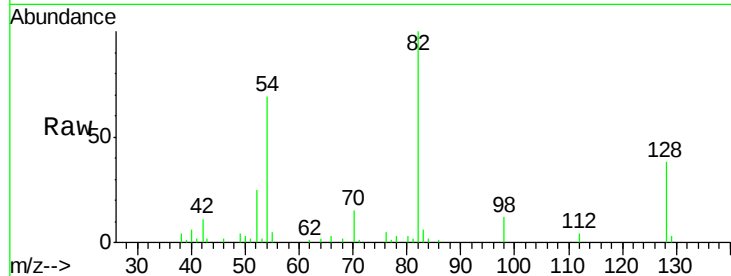




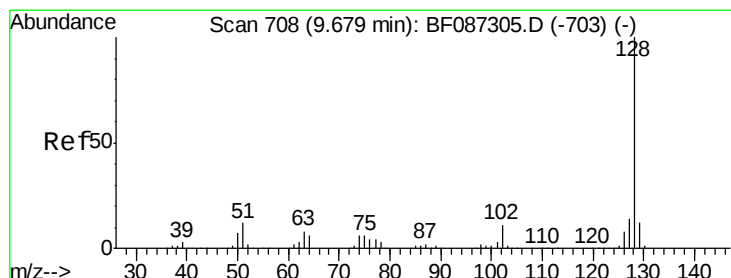
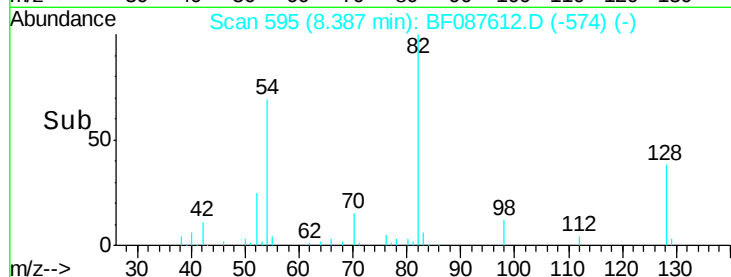
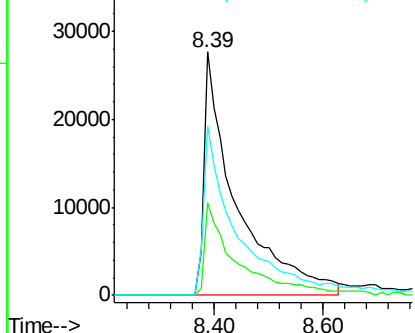
#23
Nitrobenzene-d5
Concen: 13.52 ng
RT: 8.39 min Scan# 595
Delta R.T. -0.06 min
Lab File: BF087612.D
Acq: 1 Jun 2016 8:53

Instrument :
BNA_F
ClientSampleId :
CHS-STA-1705(0-4)

Tgt Ion: 82 Resp: 114270
Ion Ratio Lower Upper
82 100
128 38.1 40.6 61.0#
54 69.5 38.1 57.1#

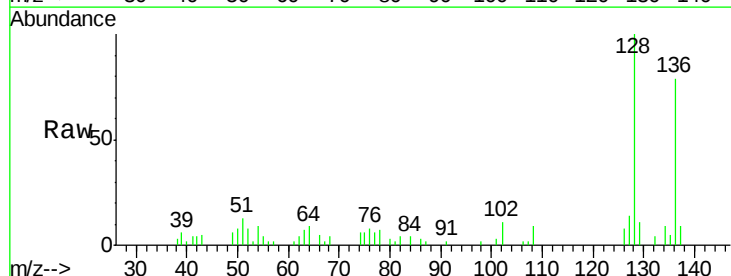


Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF0

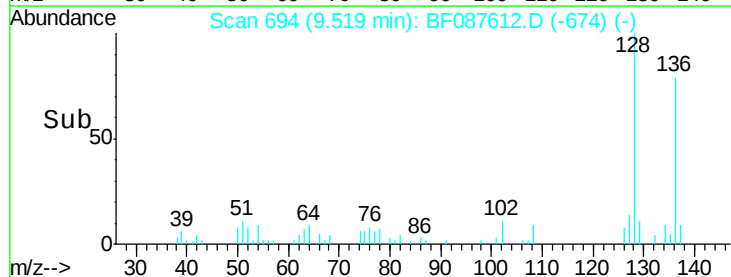
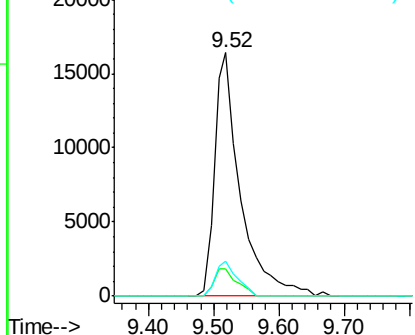


#31
Naphthalene
Concen: 2.13 ng
RT: 9.52 min Scan# 694
Delta R.T. -0.07 min
Lab File: BF087612.D
Acq: 1 Jun 2016 8:53

Tgt Ion: 128 Resp: 45349
Ion Ratio Lower Upper
128 100
129 11.3 8.6 13.0
127 14.1 10.8 16.2



Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 12.30 min Scan# 937

Delta R.T. -0.09 min

Lab File: BF087612.D

Acq: 1 Jun 2016 8:53

Instrument :

BNA_F

ClientSampleId :

CHS-STA-1705(0-4)

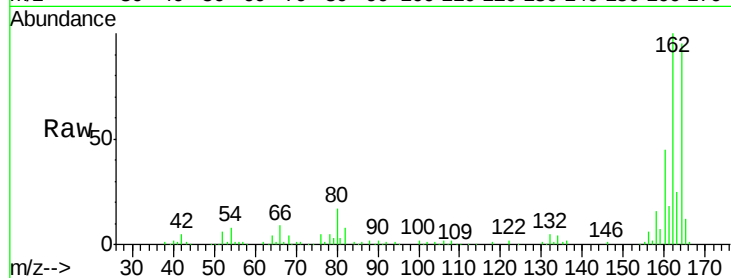
Tgt Ion:164 Resp: 181559

Ion Ratio Lower Upper

164 100

162 105.5 82.8 124.2

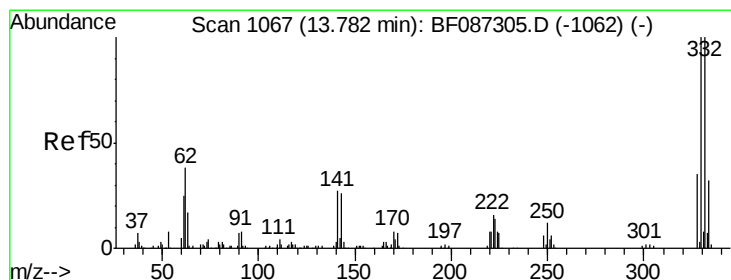
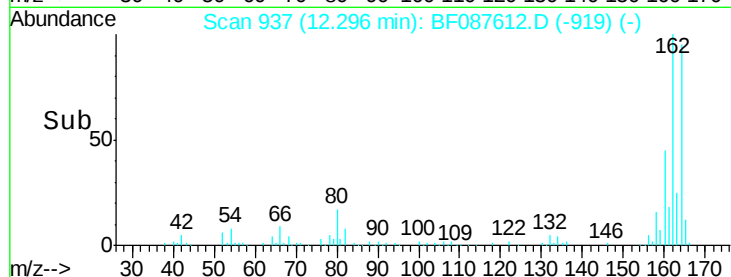
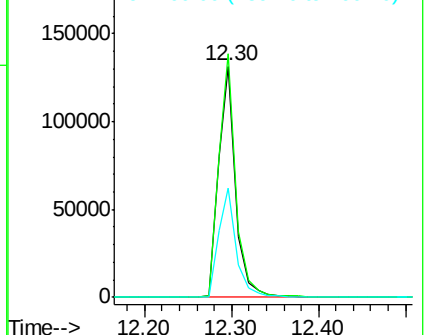
160 47.0 36.9 55.3



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#41

2,4,6-Tribromophenol

Concen: 15.81 ng

RT: 13.61 min Scan# 1052

Delta R.T. -0.07 min

Lab File: BF087612.D

Acq: 1 Jun 2016 8:53

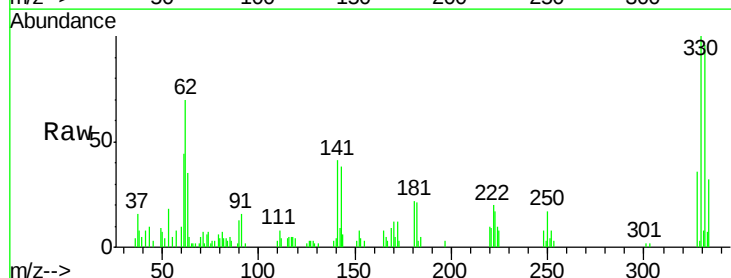
Tgt Ion:330 Resp: 27583

Ion Ratio Lower Upper

330 100

332 95.2 79.0 118.4

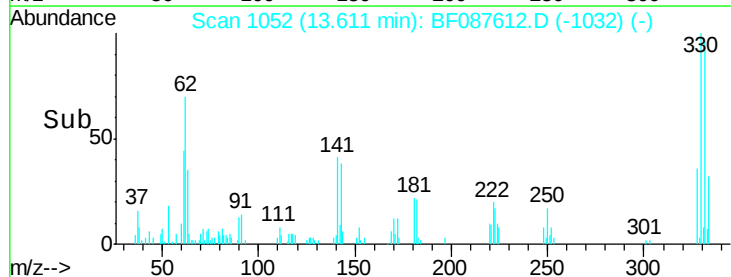
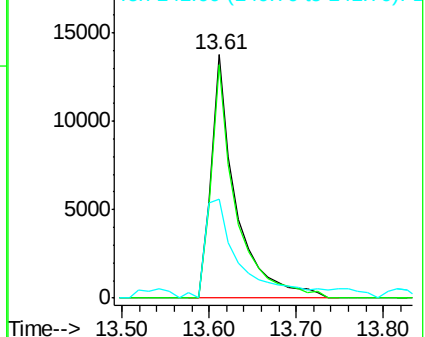
141 57.4 31.2 46.8#

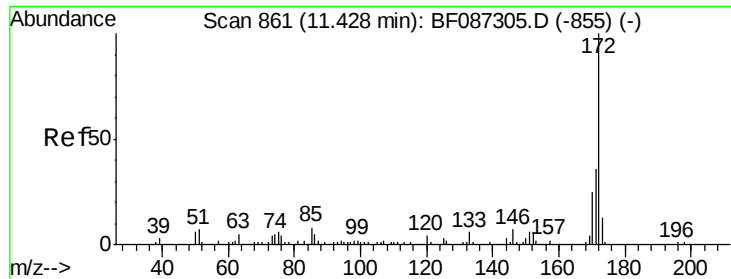


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





#44

2-Fluorobiphenyl

Concen: 15.79 ng

RT: 11.24 min Scan# 845

Delta R.T. -0.09 min

Lab File: BF087612.D

Acq: 1 Jun 2016 8:53

Instrument :

BNA_F

ClientSampleId :

CHS-STA-1705(0-4)

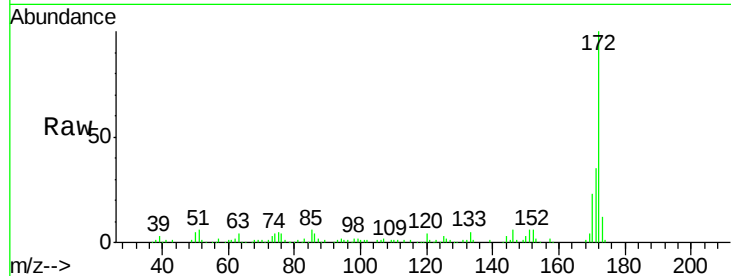
Tgt Ion:172 Resp: 203321

Ion Ratio Lower Upper

172 100

171 34.8 29.0 43.6

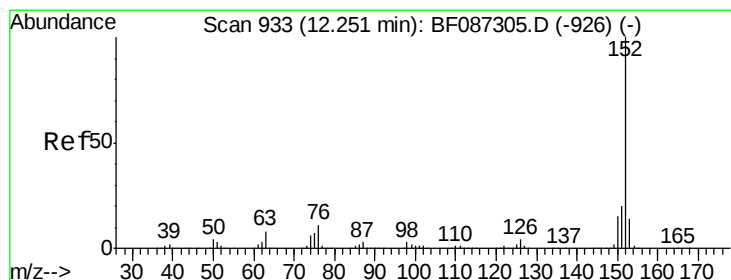
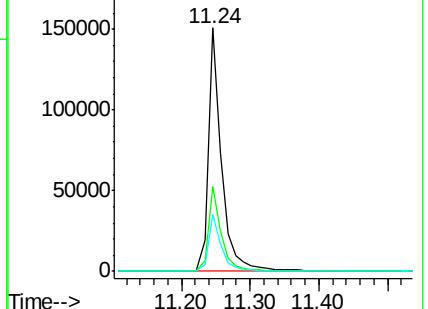
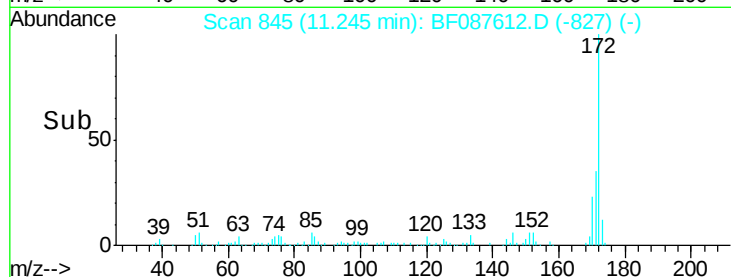
170 23.3 19.8 29.8



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



#48

Acenaphthylene

Concen: 4.03 ng

RT: 12.08 min Scan# 918

Delta R.T. -0.08 min

Lab File: BF087612.D

Acq: 1 Jun 2016 8:53

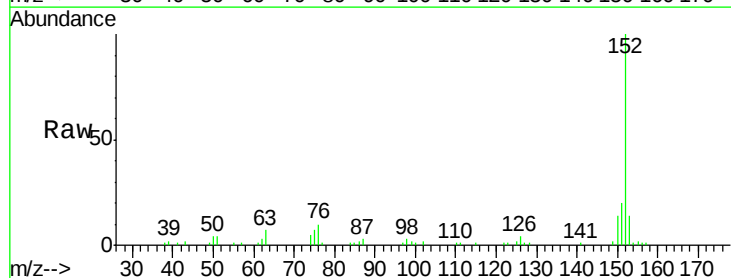
Tgt Ion:152 Resp: 74561

Ion Ratio Lower Upper

152 100

151 20.0 16.8 25.2

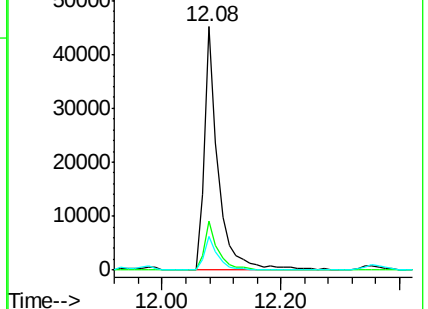
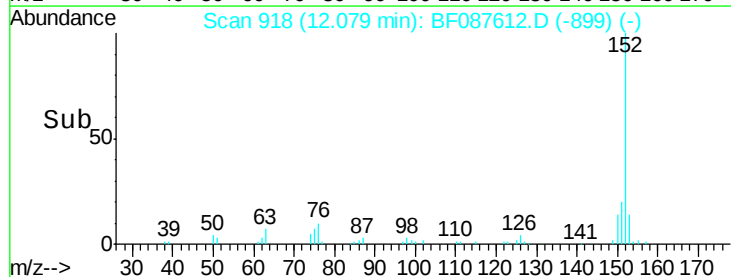
153 13.6 10.9 16.3

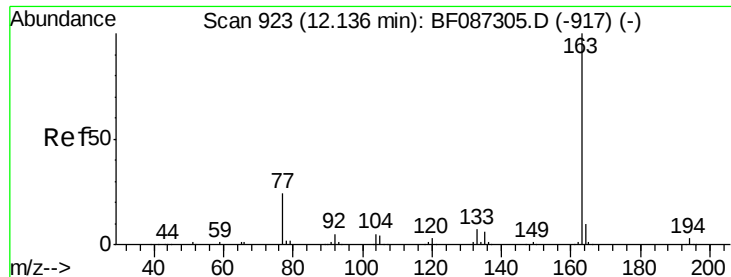


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E

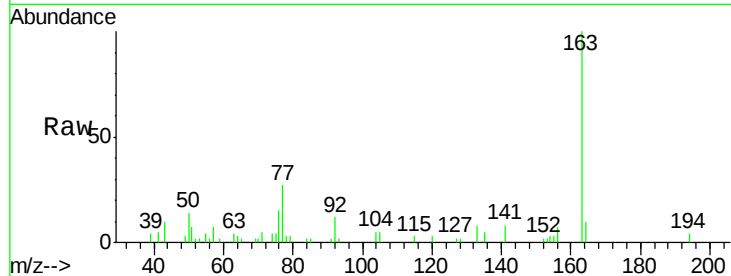




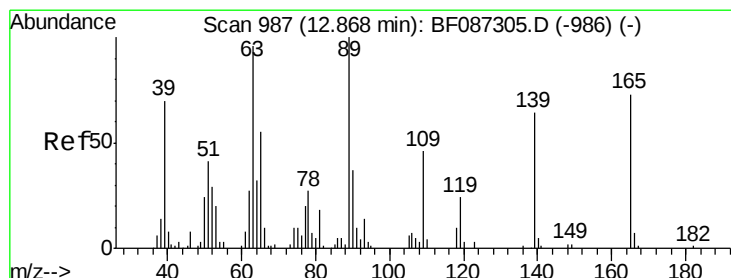
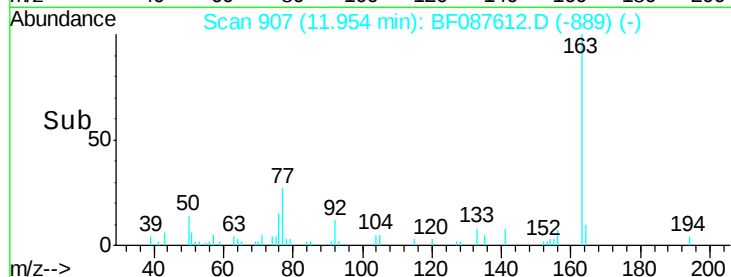
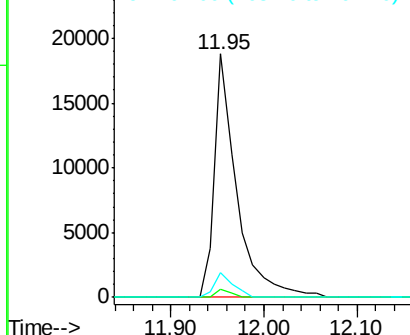
#49
Dimethylphthalate
Concen: 2.15 ng
RT: 11.95 min Scan# 907
Delta R.T. -0.09 min
Lab File: BF087612.D
Acq: 1 Jun 2016 8:53

Instrument :
BNA_F
ClientSampleId :
CHS-STA-1705(0-4)

Tgt Ion:163 Resp: 31238
Ion Ratio Lower Upper
163 100
194 3.5 2.6 4.0
164 10.1 8.2 12.4

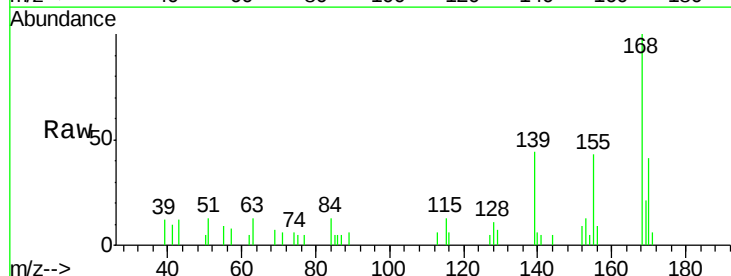


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

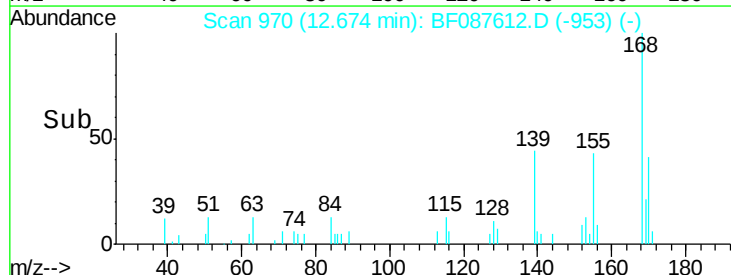
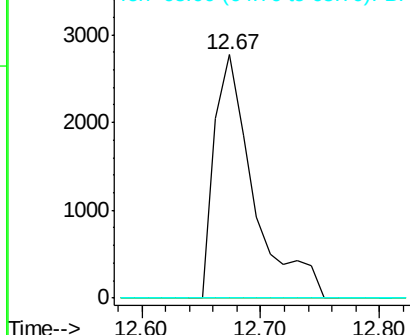


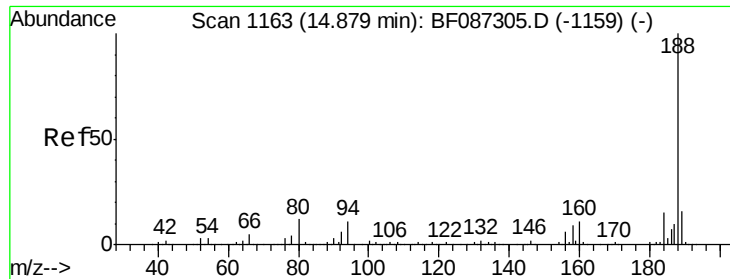
#55
4-Nitrophenol
Concen: 4.44 ng
RT: 12.67 min Scan# 970
Delta R.T. -0.10 min
Lab File: BF087612.D
Acq: 1 Jun 2016 8:53

Tgt Ion:139 Resp: 6375
Ion Ratio Lower Upper
139 100
109 0.0 36.9 76.9#
65 0.0 64.0 104.0#



Abundance Ion 139.00 (138.70 to 139.70): E
Ion 109.00 (108.70 to 109.70): E
Ion 65.00 (64.70 to 65.70): BF0

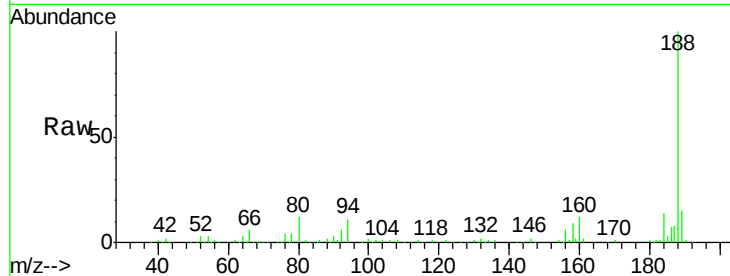




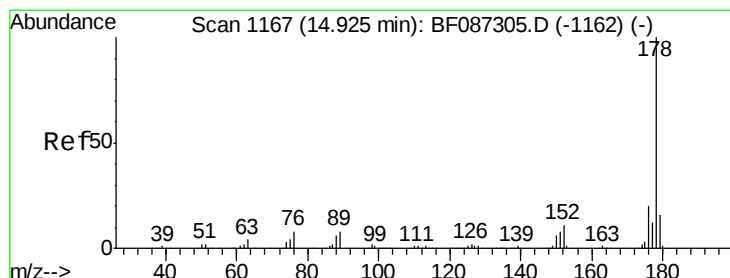
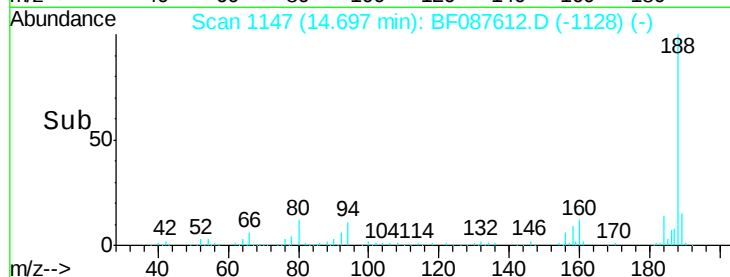
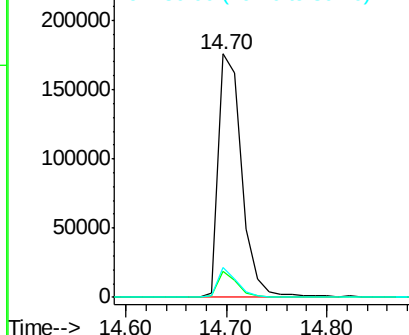
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 14.70 min Scan# 1147
Delta R.T. -0.08 min
Lab File: BF087612.D
Acq: 1 Jun 2016 8:53

Instrument :
BNA_F
ClientSampleId :
CHS-STA-1705(0-4)

Tgt Ion:188 Resp: 284203
Ion Ratio Lower Upper
188 100
94 10.6 6.8 10.2#
80 12.1 7.1 10.7#

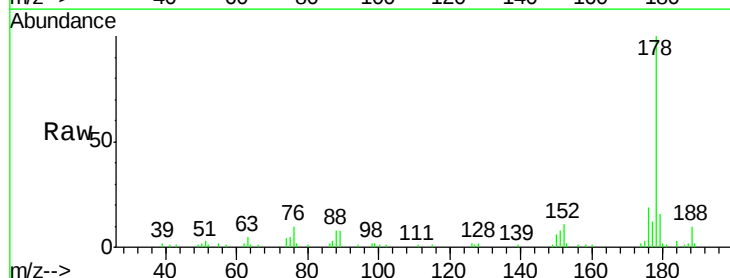


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0

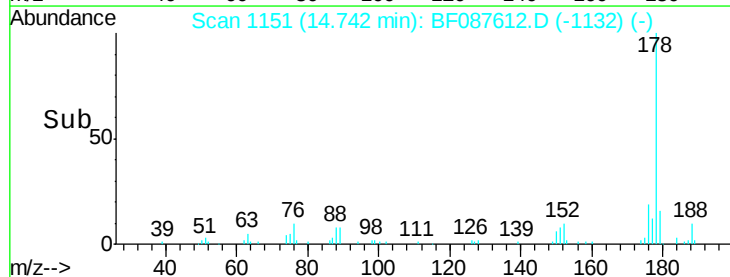
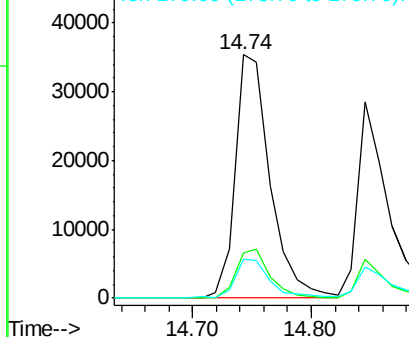


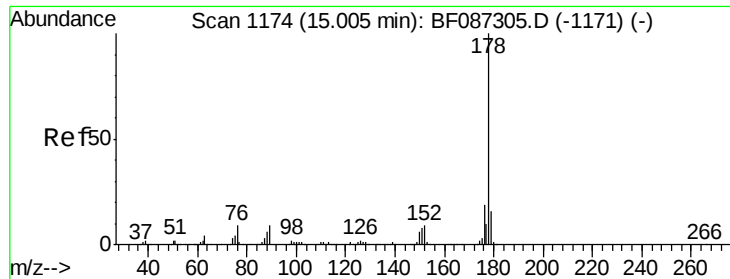
#70
Phenanthrene
Concen: 4.62 ng
RT: 14.74 min Scan# 1151
Delta R.T. -0.08 min
Lab File: BF087612.D
Acq: 1 Jun 2016 8:53

Tgt Ion:178 Resp: 72675
Ion Ratio Lower Upper
178 100
176 18.8 16.0 24.0
179 16.1 12.6 18.8



Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

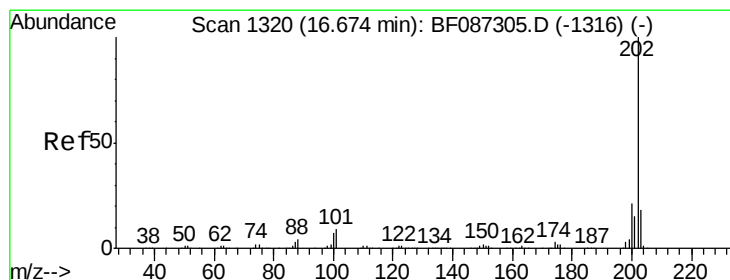
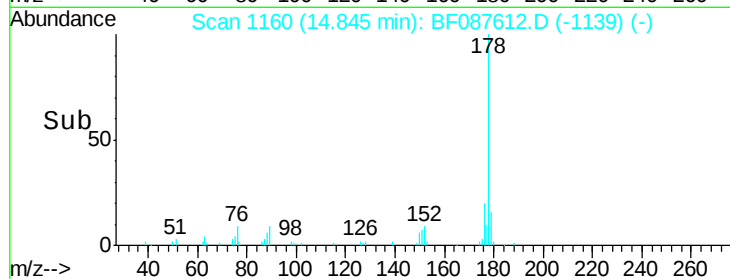
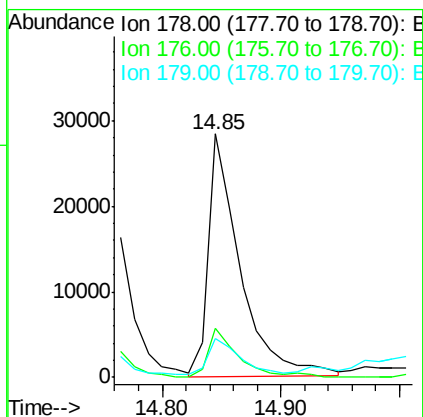
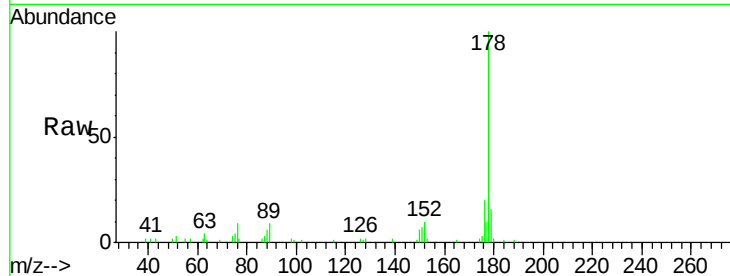




#71
 Anthracene
 Concen: 3.28 ng
 RT: 14.85 min Scan# 1160
 Delta R.T. -0.06 min
 Lab File: BF087612.D
 Acq: 1 Jun 2016 8:53

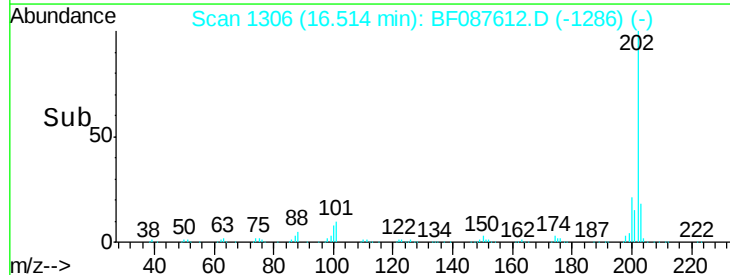
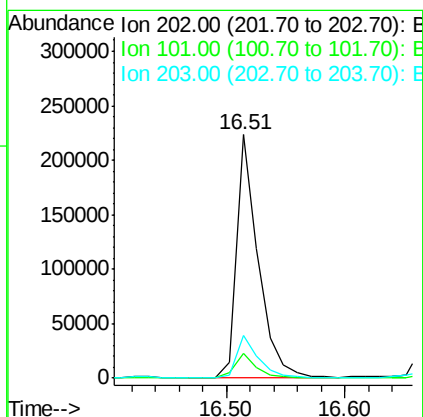
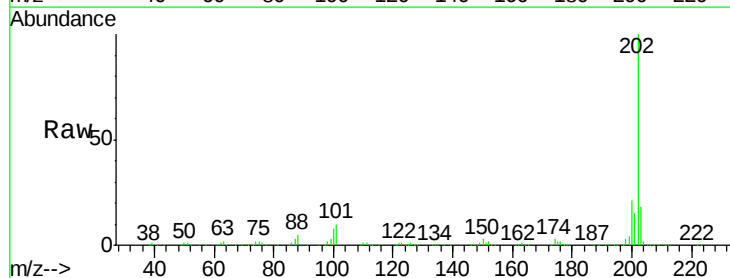
Instrument :
 BNA_F
 ClientSampleId :
 CHS-STA-1705(0-4)

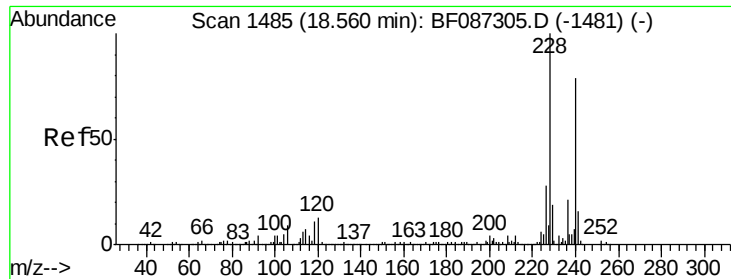
Tgt Ion:178 Resp: 52181
 Ion Ratio Lower Upper
 178 100
 176 20.0 15.6 23.4
 179 16.1 12.7 19.1



#74
 Fluoranthene
 Concen: 18.09 ng
 RT: 16.51 min Scan# 1306
 Delta R.T. -0.07 min
 Lab File: BF087612.D
 Acq: 1 Jun 2016 8:53

Tgt Ion:202 Resp: 285640
 Ion Ratio Lower Upper
 202 100
 101 10.4 0.0 35.4
 203 17.7 0.0 38.1





#75

Chrysene-d12

Concen: 20.00 ng

RT: 18.42 min Scan# 1473

Delta R.T. -0.06 min

Lab File: BF087612.D

Acq: 1 Jun 2016 8:53

Instrument :

BNA_F

ClientSampleId :

CHS-STA-1705(0-4)

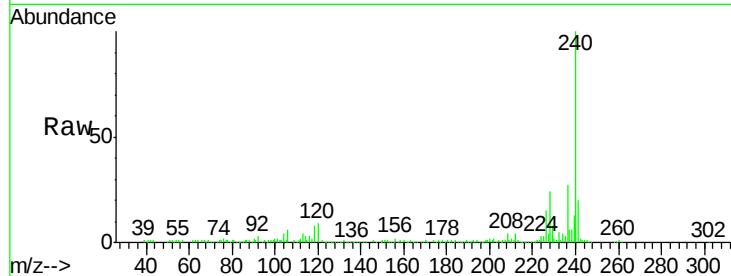
Tgt Ion:240 Resp: 226931

Ion Ratio Lower Upper

240 100

120 8.9 11.2 16.8#

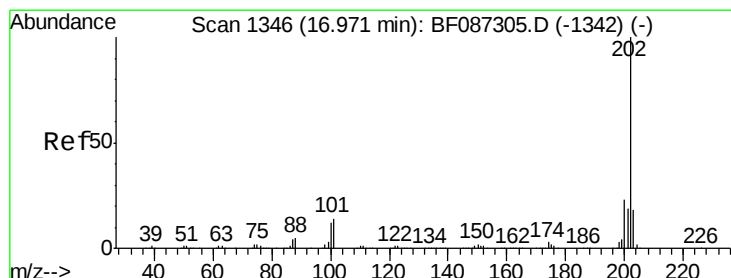
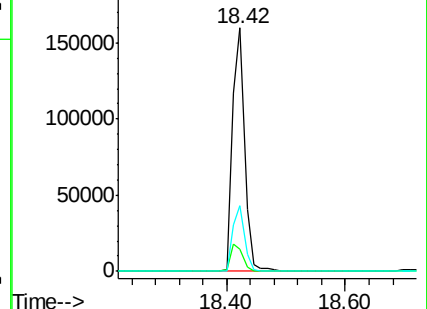
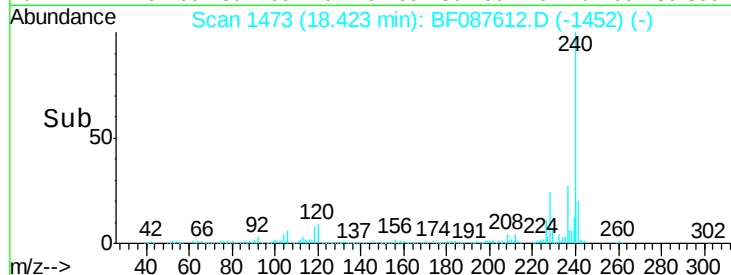
236 26.8 21.2 31.8



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 16.10 ng

RT: 16.82 min Scan# 1333

Delta R.T. -0.06 min

Lab File: BF087612.D

Acq: 1 Jun 2016 8:53

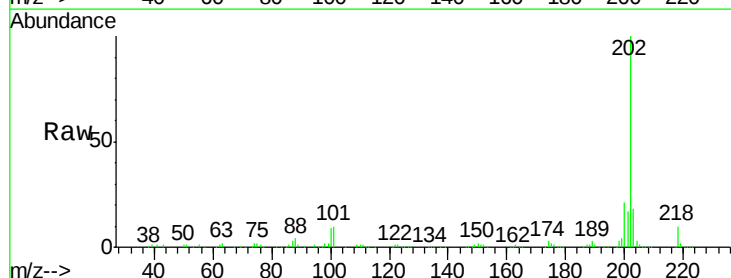
Tgt Ion:202 Resp: 262919

Ion Ratio Lower Upper

202 100

200 21.1 17.7 26.5

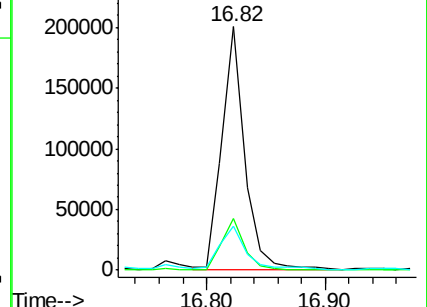
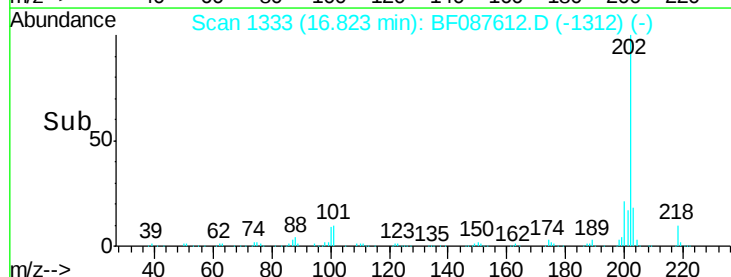
203 18.0 14.2 21.4

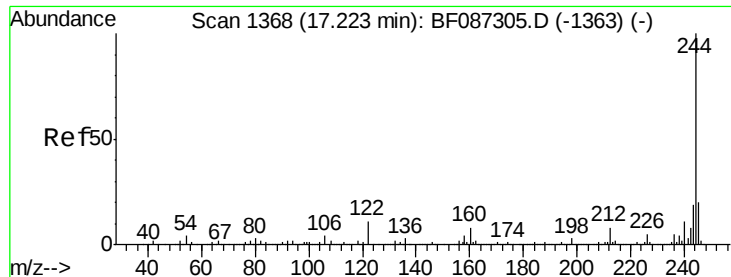


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 10.74 ng

RT: 17.05 min Scan# 1353

Delta R.T. -0.08 min

Lab File: BF087612.D

Acq: 1 Jun 2016 8:53

Instrument :

BNA_F

ClientSampleId :

CHS-STA-1705(0-4)

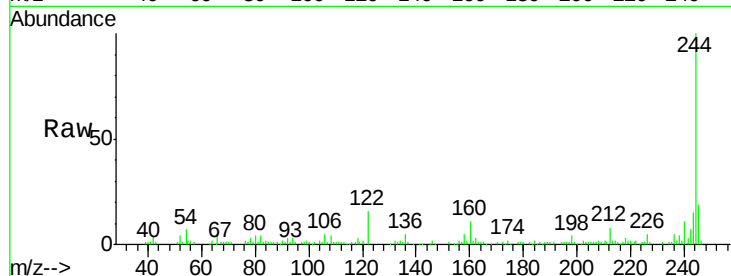
Tgt Ion:244 Resp: 114683

Ion Ratio Lower Upper

244 100

212 8.5 6.2 9.2

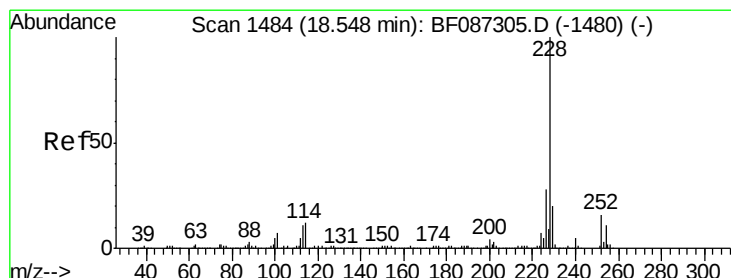
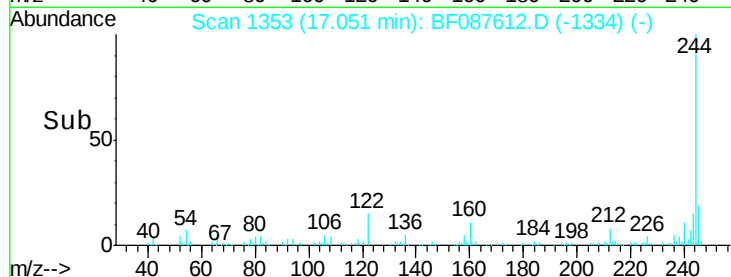
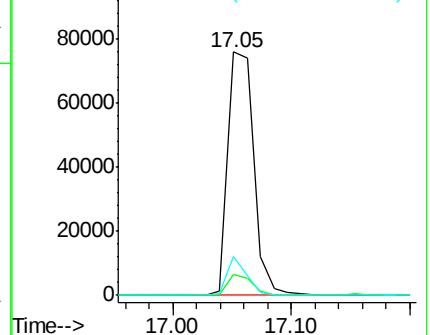
122 16.0 12.0 18.0



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#80

Benzo(a)anthracene

Concen: 14.43 ng

RT: 18.41 min Scan# 1472

Delta R.T. -0.05 min

Lab File: BF087612.D

Acq: 1 Jun 2016 8:53

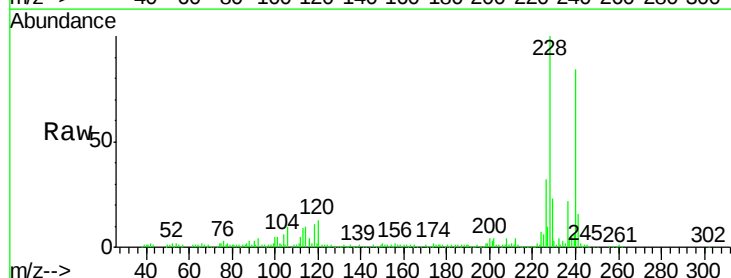
Tgt Ion:228 Resp: 186285

Ion Ratio Lower Upper

228 100

226 32.0 22.5 33.7

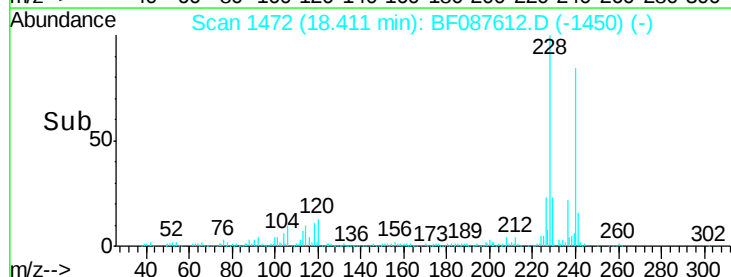
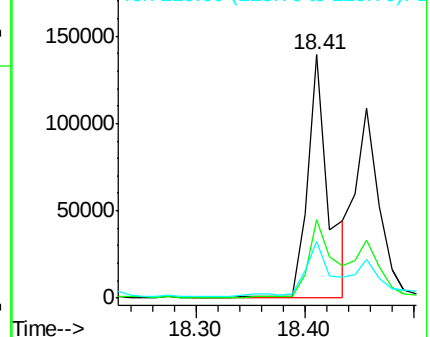
229 23.3 16.6 25.0

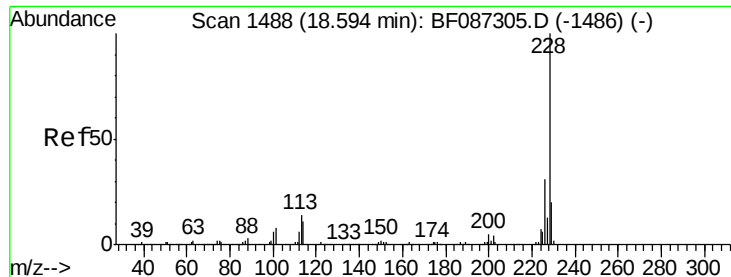


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 12.84 ng

RT: 18.46 min Scan# 1476

Delta R.T. -0.06 min

Lab File: BF087612.D

Acq: 1 Jun 2016 8:53

Instrument :

BNA_F

ClientSampleId :

CHS-STA-1705(0-4)

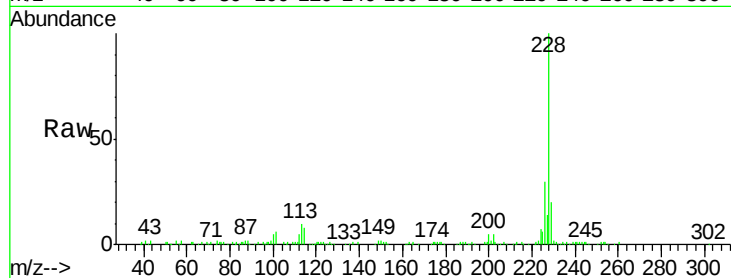
Tgt Ion:228 Resp: 164467

Ion Ratio Lower Upper

228 100

226 30.4 24.4 36.6

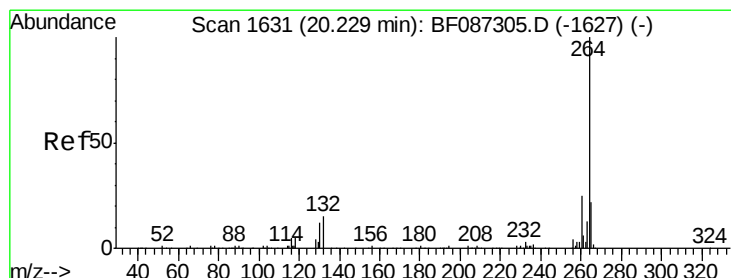
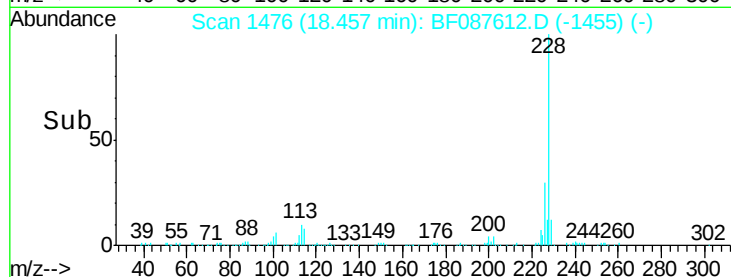
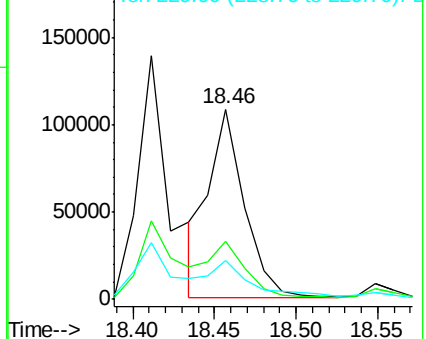
229 20.1 15.8 23.8



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#86

Perylene-d12

Concen: 20.00 ng

RT: 20.10 min Scan# 1620

Delta R.T. -0.03 min

Lab File: BF087612.D

Acq: 1 Jun 2016 8:53

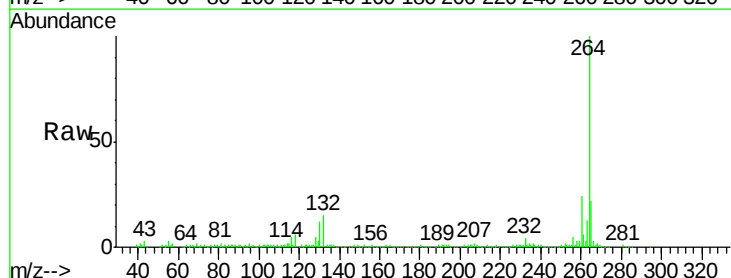
Tgt Ion:264 Resp: 186987

Ion Ratio Lower Upper

264 100

260 24.1 19.5 29.3

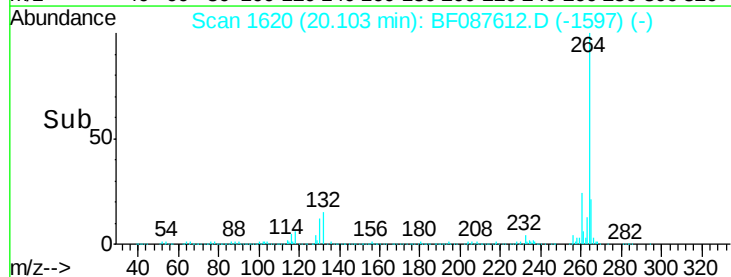
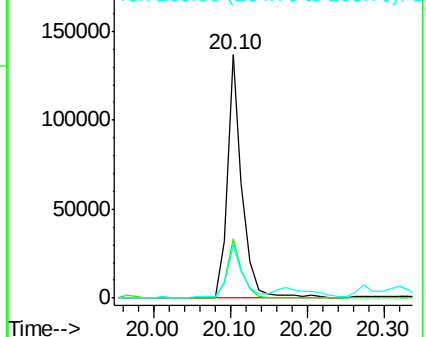
265 21.8 17.3 25.9

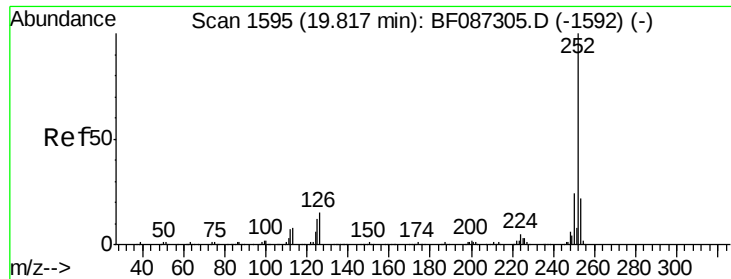


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 5.02 ng

RT: 19.82 min Scan# 1595

Delta R.T. 0.09 min

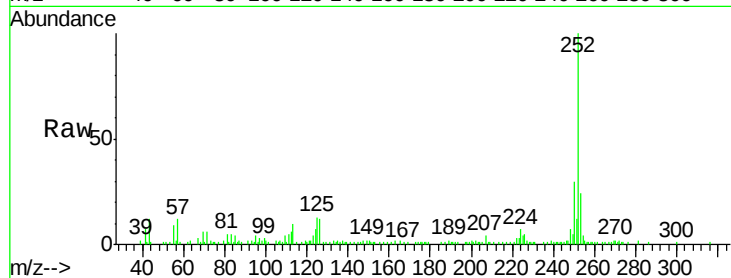
Lab File: BF087612.D

Acq: 1 Jun 2016 8:53

Instrument :
BNA_F
ClientSampleId :
CHS-STA-1705(0-4)

Tgt Ion:252 Resp: 59779

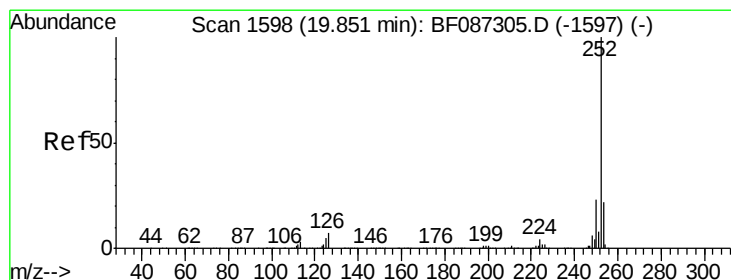
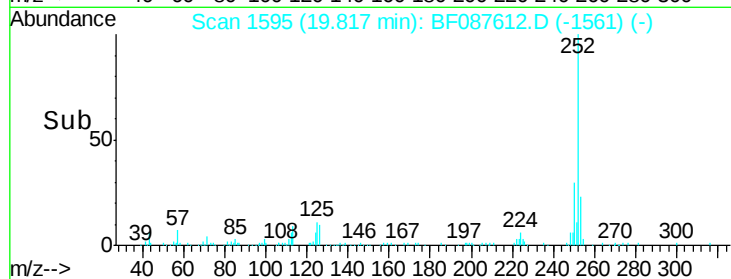
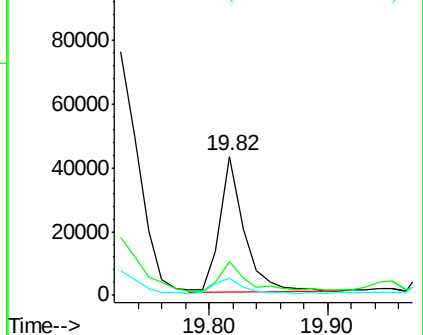
Ion	Ratio	Lower	Upper
252	100		
253	23.9	17.8	26.6
125	12.6	11.4	17.0



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: 37.03 ng

RT: 19.69 min Scan# 1584

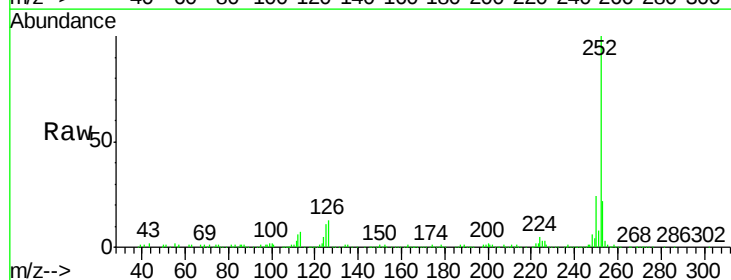
Delta R.T. -0.07 min

Lab File: BF087612.D

Acq: 1 Jun 2016 8:53

Tgt Ion:252 Resp: 379662

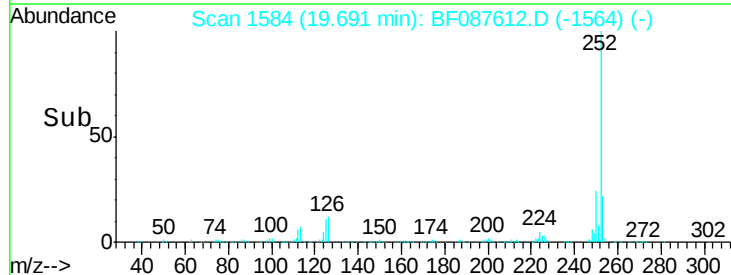
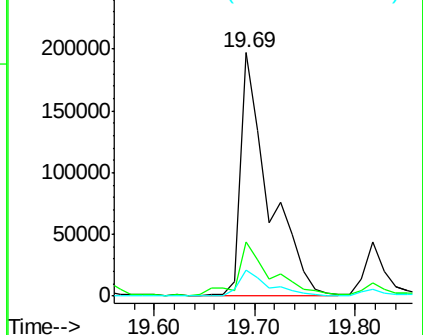
Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.8	26.6
125	10.9	9.1	13.7

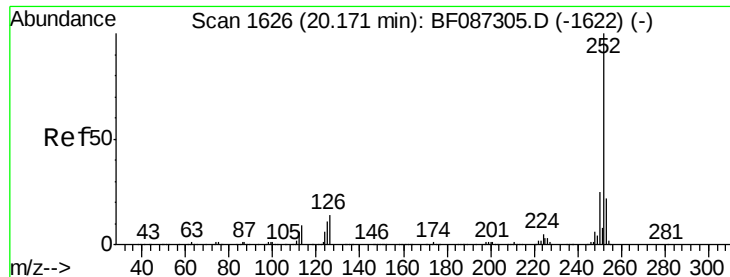


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 14.08 ng

RT: 20.06 min Scan# 1616

Delta R.T. -0.02 min

Lab File: BF087612.D

Acq: 1 Jun 2016 8:53

Instrument :

BNA_F

ClientSampleId :

CHS-STA-1705(0-4)

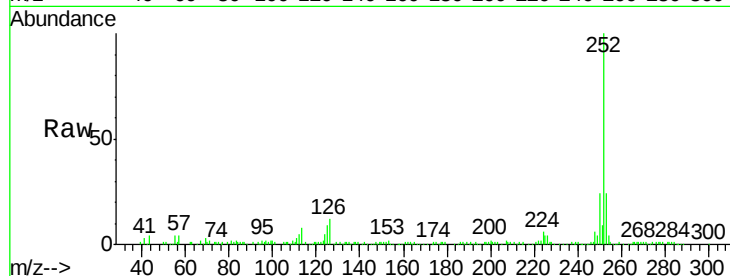
Tgt Ion:252 Resp: 144999

Ion Ratio Lower Upper

252 100

253 24.3 17.2 25.8

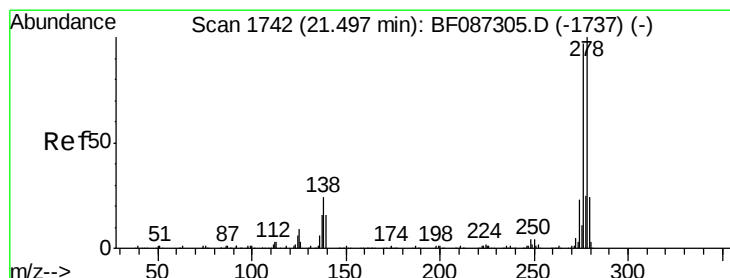
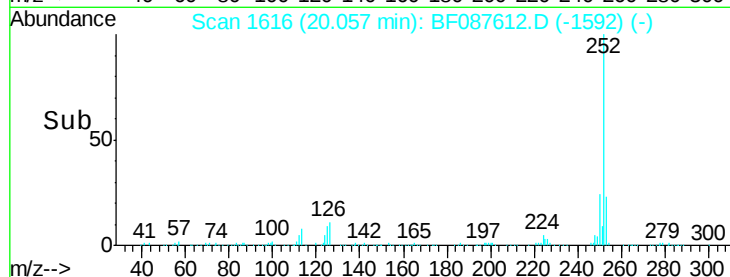
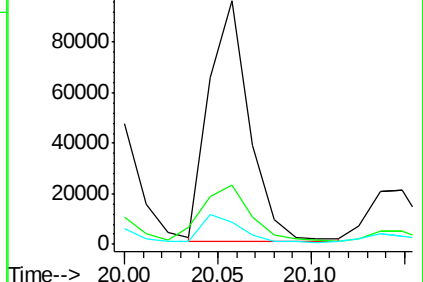
125 9.1 9.0 13.6



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: 3.19 ng

RT: 21.35 min Scan# 1729

Delta R.T. -0.01 min

Lab File: BF087612.D

Acq: 1 Jun 2016 8:53

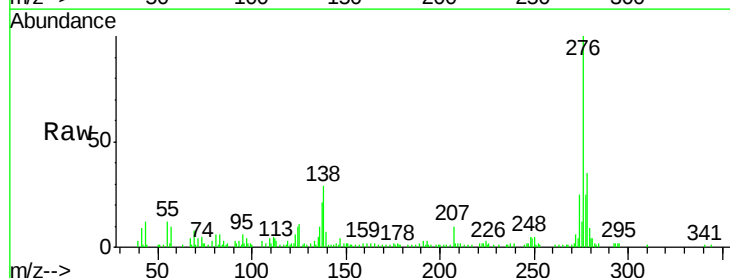
Tgt Ion:278 Resp: 28025

Ion Ratio Lower Upper

278 100

139 19.0 16.6 24.8

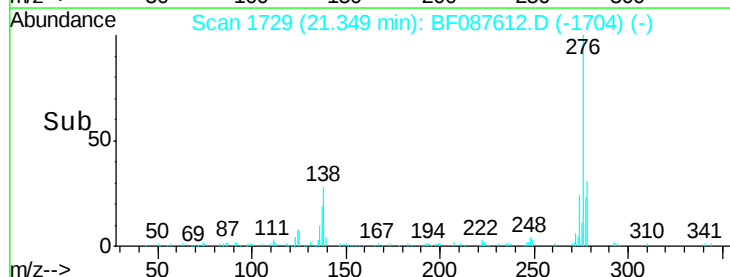
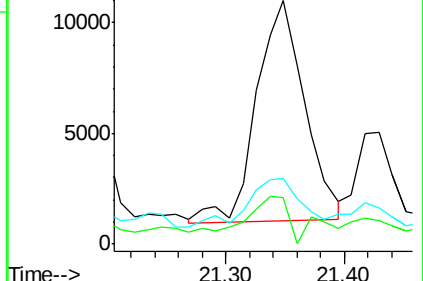
279 27.0 19.6 29.4

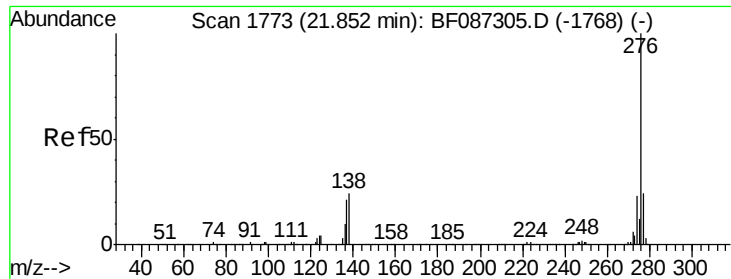


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#91

Benzo(g,h,i)perylene

Concen: 8.59 ng

RT: 21.71 min Scan# 1761

Delta R.T. 0.00 min

Lab File: BF087612.D

Acq: 1 Jun 2016 8:53

Instrument :

BNA_F

ClientSampleId :

CHS-STA-1705(0-4)

Tgt Ion: 276 Resp: 74461

Ion Ratio Lower Upper

276 100

277 25.8 19.6 29.4

138 20.0 23.6 35.4#

