

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF052716\
 Data File : BF087473.D
 Acq On : 28 May 2016 8:19
 Operator : UM/SJ
 Sample : H3190-22
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 CHS-STA-1690(0-4)

Quant Time: May 30 00:57:09 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

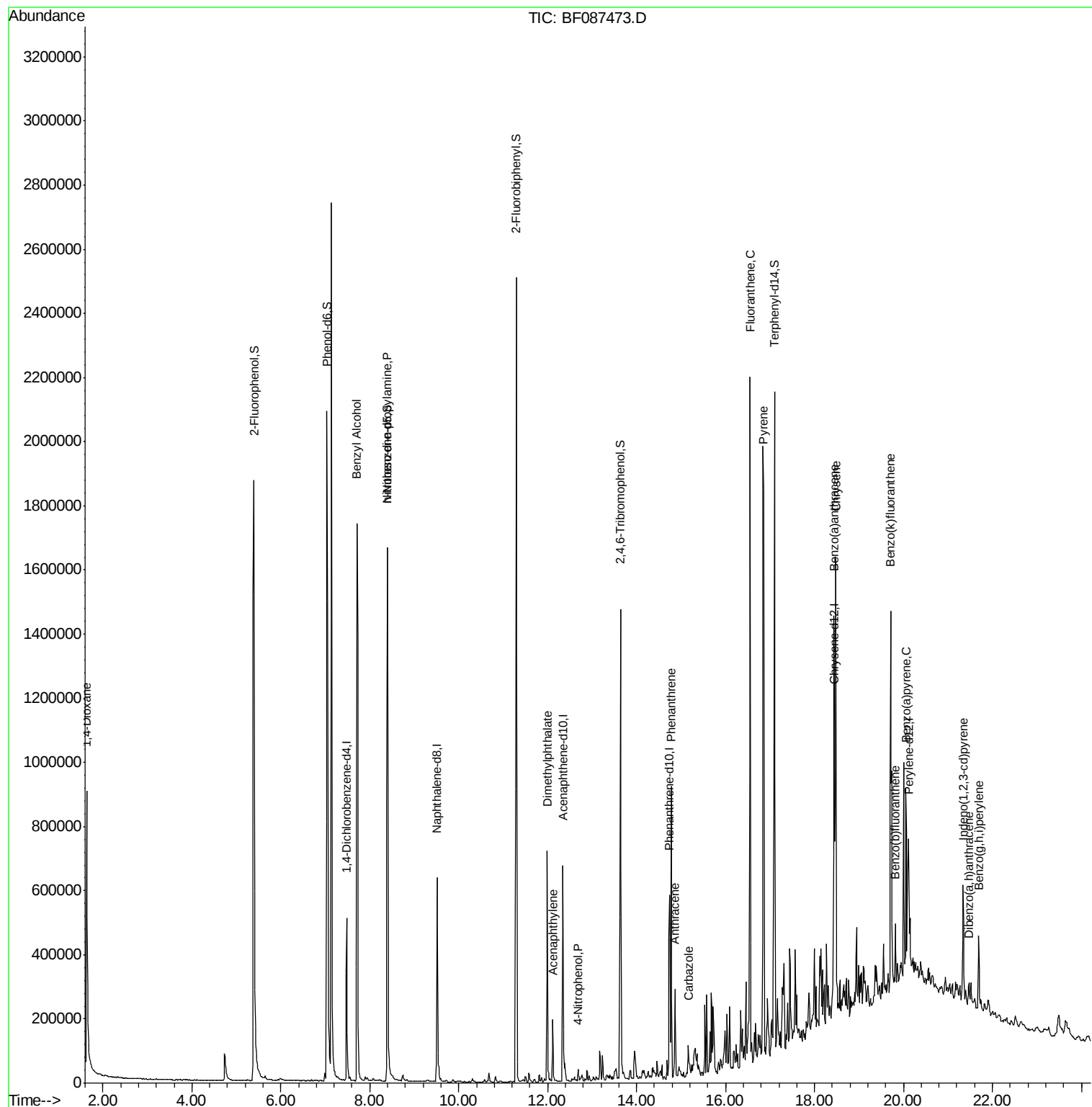
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.48	152	104480	20.00	ng	-0.03
21) Naphthalene-d8	9.51	136	419708	20.00	ng	-0.05
38) Acenaphthene-d10	12.34	164	183436	20.00	ng	-0.05
63) Phenanthrene-d10	14.74	188	294974	20.00	ng	-0.03
75) Chrysene-d12	18.45	240	217254	20.00	ng	-0.03
86) Perylene-d12	20.11	264	169631	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.39	112	825559	138.84	ng	-0.02
7) Phenol-d6	7.04	99	1101312	137.08	ng	-0.03
23) Nitrobenzene-d5	8.40	82	710173	85.28	ng	-0.05
41) 2,4,6-Tribromophenol	13.63	330	195593	110.96	ng	-0.05
44) 2-Fluorobiphenyl	11.29	172	1085540	83.43	ng	-0.05
78) Terphenyl-d14	17.10	244	746665	73.07	ng	-0.03
Target Compounds						Qvalue
2) 1,4-Dioxane	1.63	88	27702	8.83	ng	# 22
15) Benzyl Alcohol	7.71	79	12363	2.11	ng	# 44
19) n-Nitroso-di-n-propylamine	8.40	70	98920	16.51	ng	# 75
48) Acenaphthylene	12.11	152	111687	5.97	ng	99
49) Dimethylphthalate	11.99	163	339630	23.11	ng	99
55) 4-Nitrophenol	12.68	139	7396	5.10	ng	# 14
70) Phenanthrene	14.78	178	436103	26.69	ng	98
71) Anthracene	14.86	178	159002	9.63	ng	97
72) Carbazole	15.17	167	63394	4.50	ng	98
74) Fluoranthene	16.55	202	992209	60.56	ng	95
77) Pyrene	16.86	202	1080662	69.10	ng	100
80) Benzo(a)anthracene	18.43	228	582425	47.13	ng	94
82) Chrysene	18.48	228	527861	43.04	ng	98
85) Indeno(1,2,3-cd)pyrene	21.34	276	192419	19.57	ng	# 87
87) Benzo(b)fluoranthene	19.82	252	94217	8.72	ng	94
88) Benzo(k)fluoranthene	19.71	252	849650	91.35	ng	99
89) Benzo(a)pyrene	20.06	252	303063	32.43	ng	# 95
90) Dibenzo(a,h)anthracene	21.47	278	32451	4.07	ng	96
91) Benzo(g,h,i)perylene	21.69	276	165030	20.98	ng	# 91

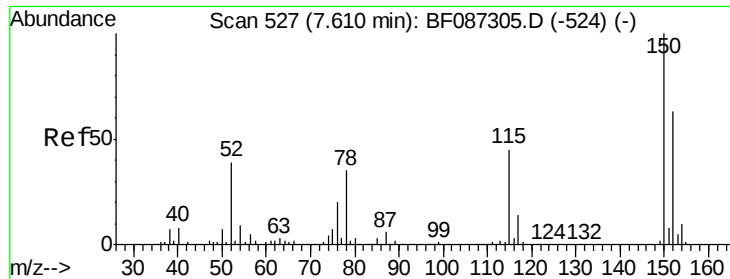
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 7.48 min Scan# 516

Delta R.T. -0.03 min

Lab File: BF087473.D

Acq: 28 May 2016 8:19

Instrument :

BNA_F

ClientSampleId :

CHS-STA-1690(0-4)

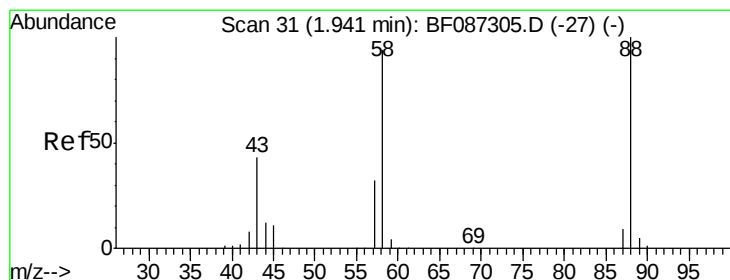
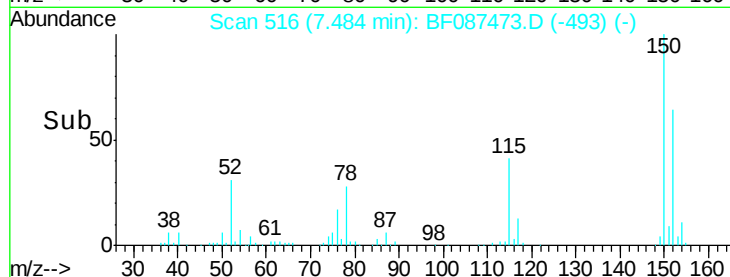
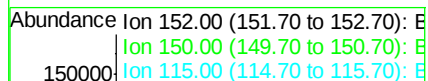
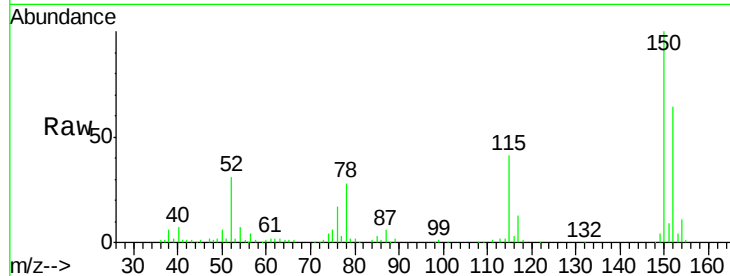
Tgt Ion:152 Resp: 104480

Ion Ratio Lower Upper

152 100

150 157.4 125.8 188.6

115 64.1 51.5 77.3



#2

1,4-Dioxane

Concen: 8.83 ng

RT: 1.63 min Scan# 4

Delta R.T. -0.18 min

Lab File: BF087473.D

Acq: 28 May 2016 8:19

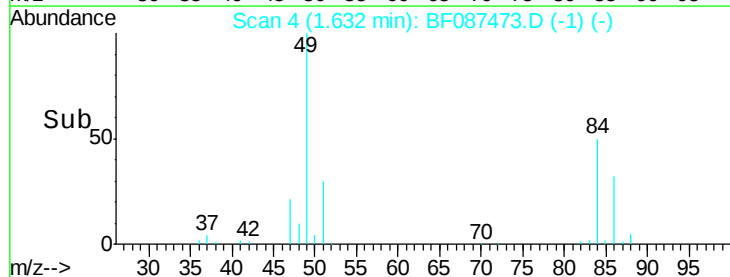
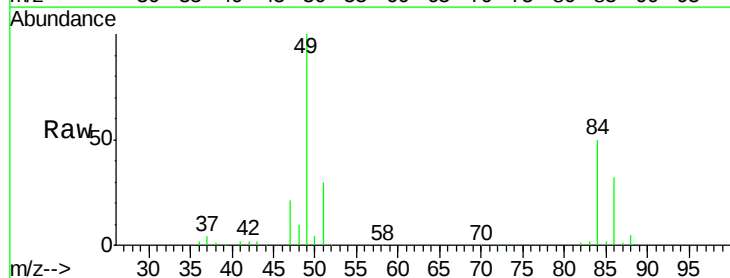
Tgt Ion: 88 Resp: 27702

Ion Ratio Lower Upper

88 100

58 0.0 59.6 89.4#

43 0.0 21.8 32.6#





#5

2-Fluorophenol

Concen: 138.84 ng

RT: 5.39 min Scan# 333

Delta R.T. -0.02 min

Lab File: BF087473.D

Acq: 28 May 2016 8:19

Instrument :

BNA_F

ClientSampleId :

CHS-STA-1690(0-4)

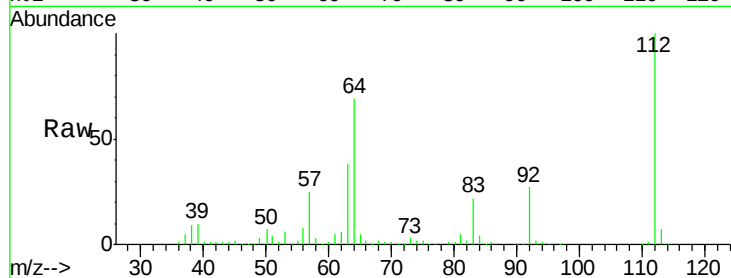
Tgt Ion: 112 Resp: 825559

Ion Ratio Lower Upper

112 100

64 69.2 52.1 78.1

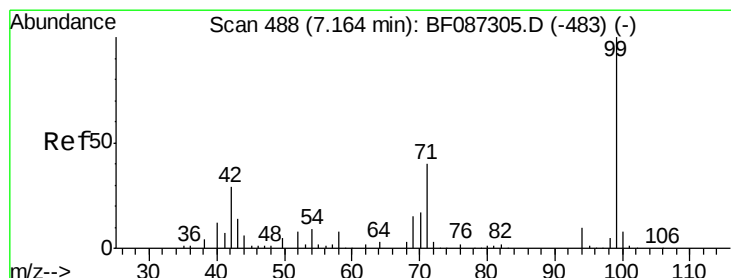
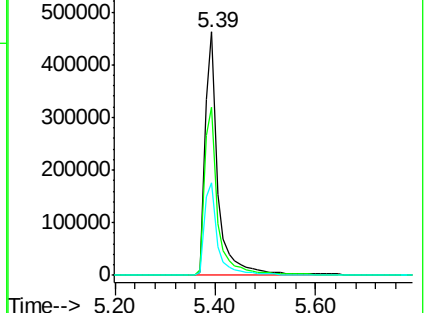
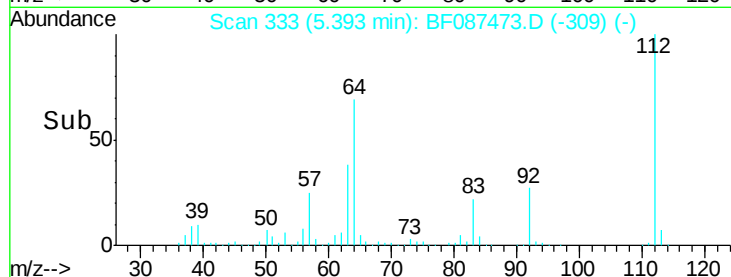
63 38.2 25.7 38.5



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: 137.08 ng

RT: 7.04 min Scan# 477

Delta R.T. -0.03 min

Lab File: BF087473.D

Acq: 28 May 2016 8:19

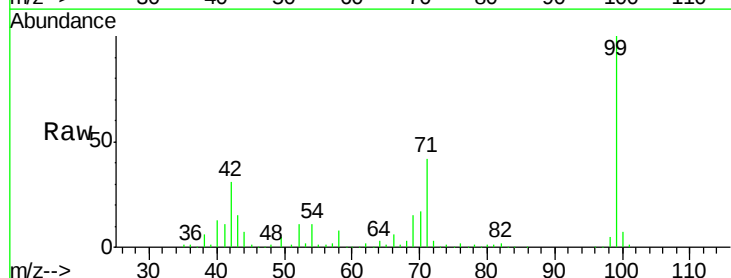
Tgt Ion: 99 Resp: 1101312

Ion Ratio Lower Upper

99 100

42 31.2 13.6 20.4#

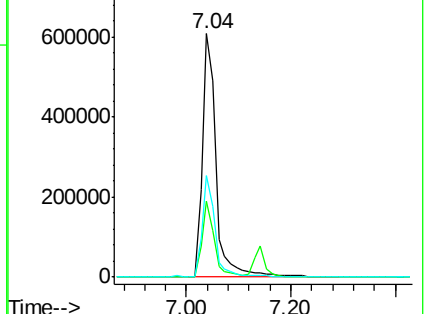
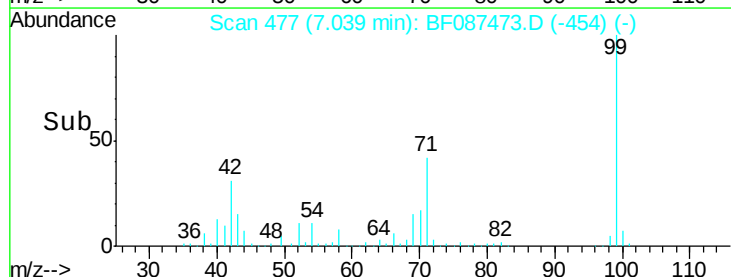
71 41.7 24.6 36.8#

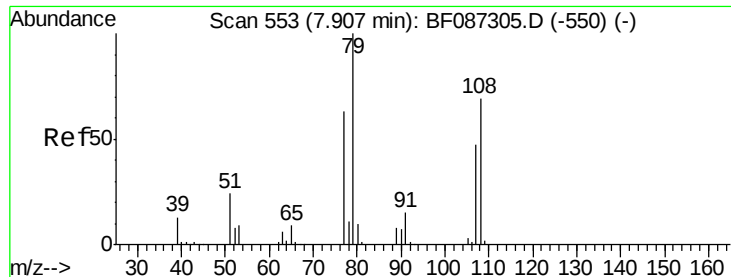


Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0





#15

Benzyl Alcohol

Concen: 2.11 ng

RT: 7.71 min Scan# 536

Delta R.T. -0.10 min

Lab File: BF087473.D

Acq: 28 May 2016 8:19

Instrument :

BNA_F

ClientSampleId :

CHS-STA-1690(0-4)

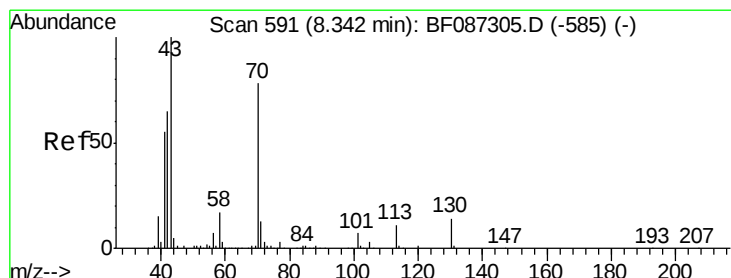
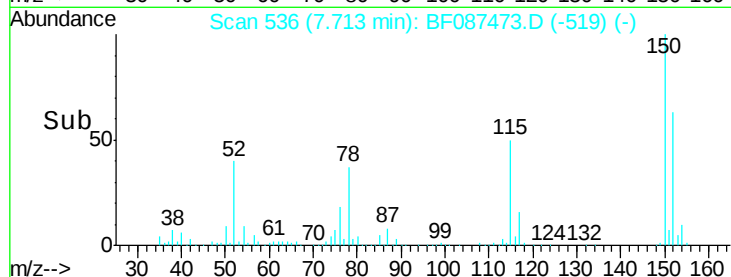
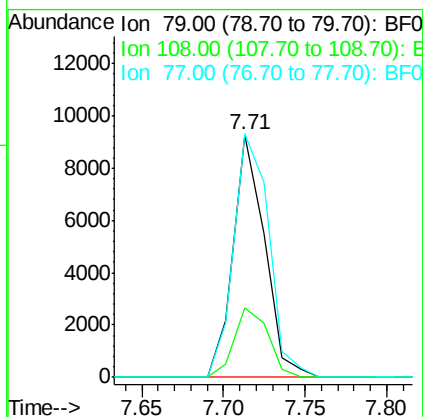
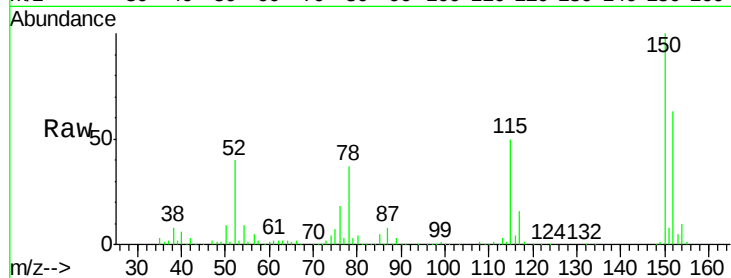
Tgt Ion: 79 Resp: 12363

Ion Ratio Lower Upper

79 100

108 28.7 68.4 102.6#

77 100.4 50.6 76.0#



#19

n-Nitroso-di-n-propylamine

Concen: 16.51 ng

RT: 8.40 min Scan# 596

Delta R.T. 0.15 min

Lab File: BF087473.D

Acq: 28 May 2016 8:19

Tgt Ion: 70 Resp: 98920

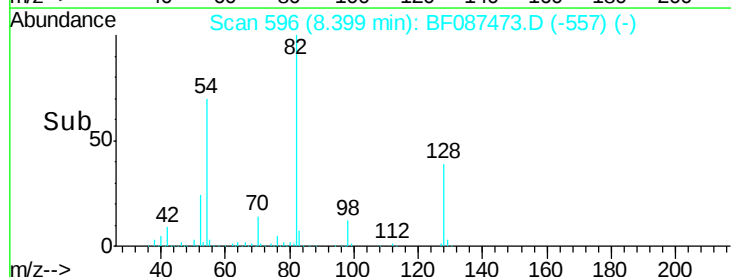
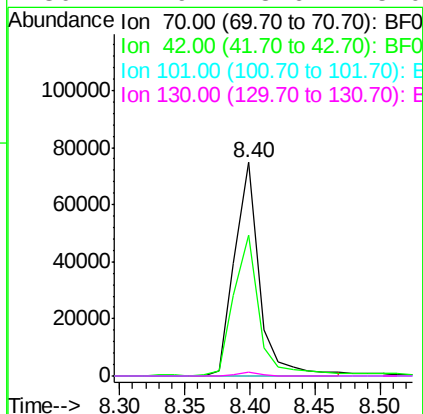
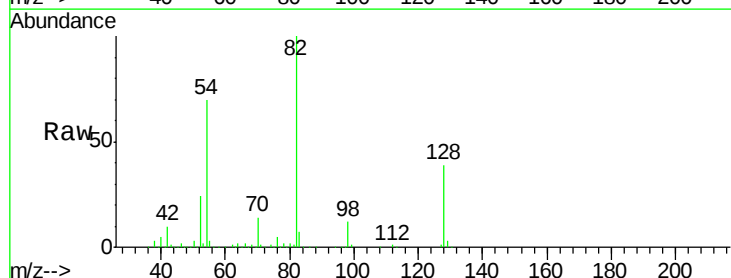
Ion Ratio Lower Upper

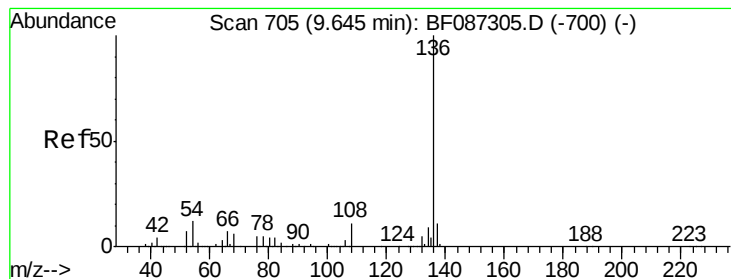
70 100

42 65.7 43.1 64.7#

101 0.0 8.1 12.1#

130 1.9 18.6 28.0#





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 9.51 min Scan# 693

Delta R.T. -0.05 min

Lab File: BF087473.D

Acq: 28 May 2016 8:19

Instrument :

BNA_F

ClientSampleId :

CHS-STA-1690(0-4)

Tgt Ion: 136 Resp: 419708

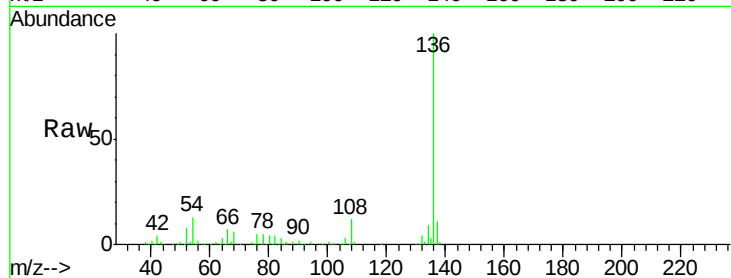
Ion Ratio Lower Upper

136 100

137 11.4 8.8 13.2

54 13.3 5.0 7.4#

68 6.4 4.4 6.6

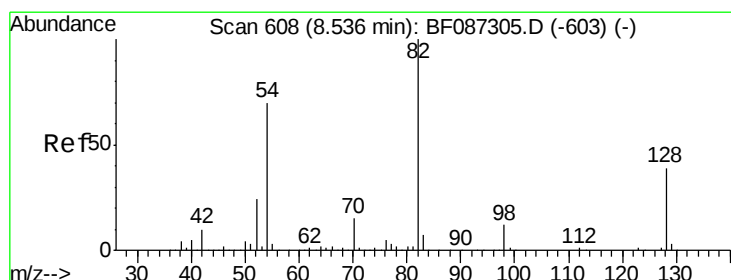
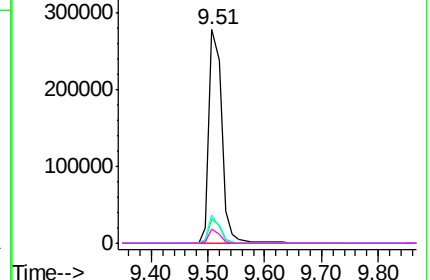
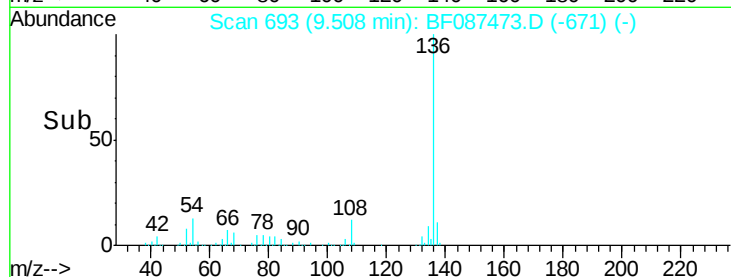


Abundance Ion 136.00 (135.70 to 136.70): E

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: 85.28 ng

RT: 8.40 min Scan# 596

Delta R.T. -0.05 min

Lab File: BF087473.D

Acq: 28 May 2016 8:19

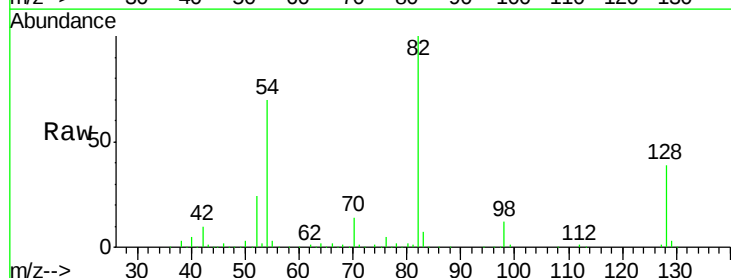
Tgt Ion: 82 Resp: 710173

Ion Ratio Lower Upper

82 100

128 38.5 40.6 61.0#

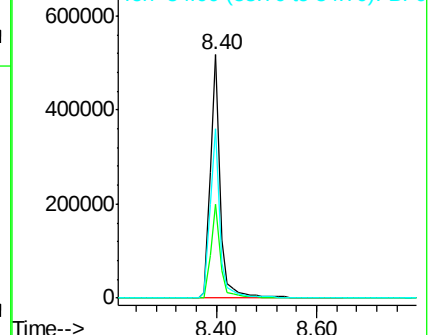
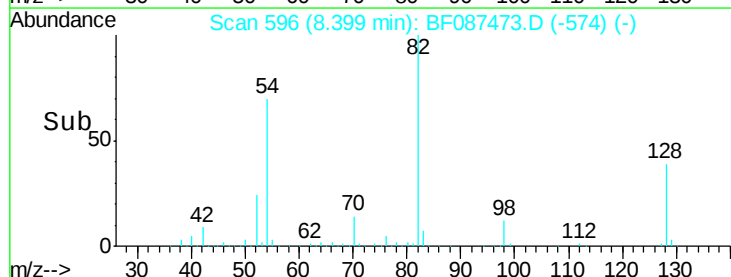
54 69.6 38.1 57.1#



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

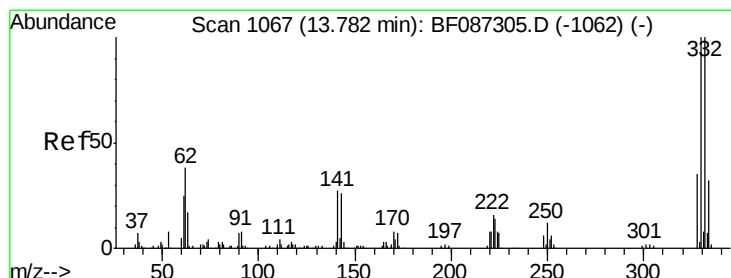
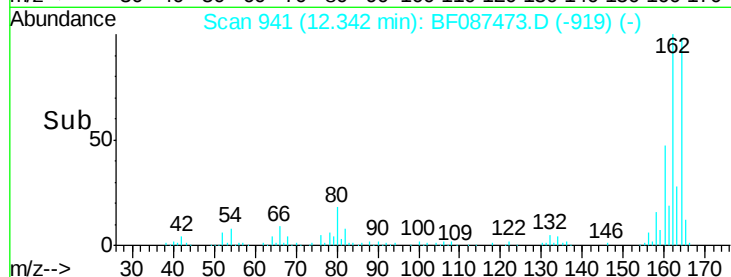
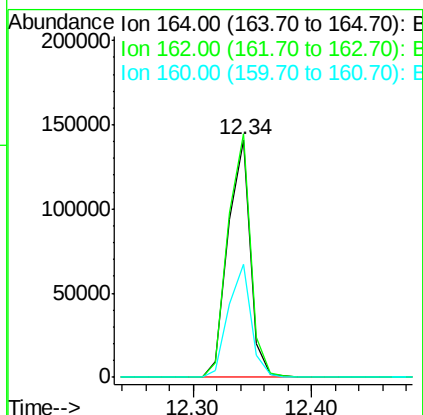
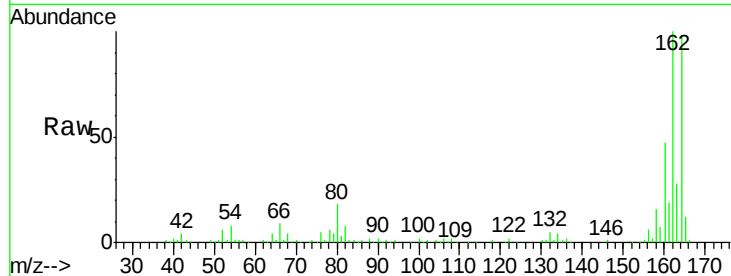




#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 12.34 min Scan# 941
 Delta R.T. -0.05 min
 Lab File: BF087473.D
 Acq: 28 May 2016 8:19

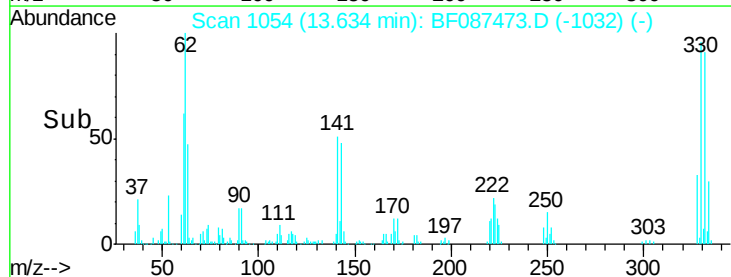
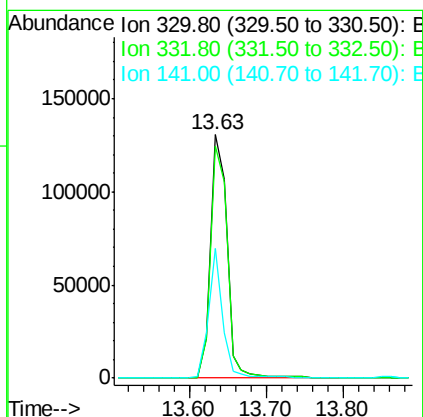
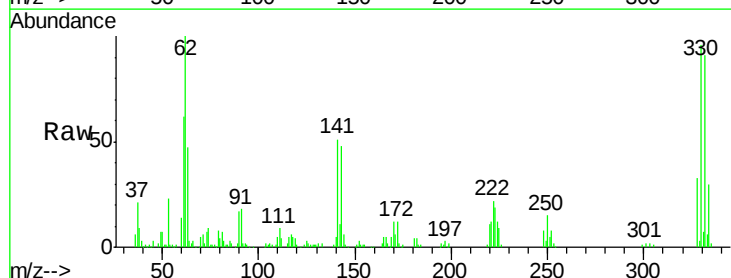
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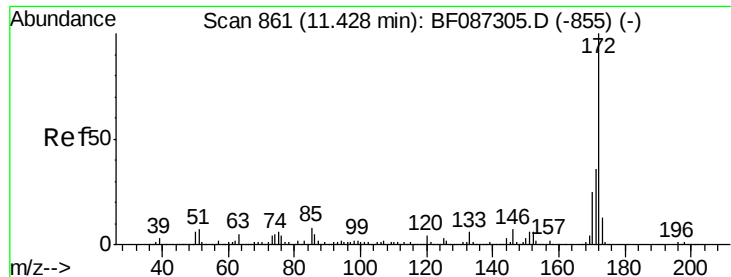
Tgt Ion	Ratio	Lower	Upper
164	100		
162	102.4	82.8	124.2
160	47.7	36.9	55.3



#41
 2,4,6-Tribromophenol
 Concen: 110.96 ng
 RT: 13.63 min Scan# 1054
 Delta R.T. -0.05 min
 Lab File: BF087473.D
 Acq: 28 May 2016 8:19

Tgt Ion	Ratio	Lower	Upper
330	100		
332	96.7	79.0	118.4
141	46.2	31.2	46.8





#44

2-Fluorobiphenyl

Concen: 83.43 ng

RT: 11.29 min Scan# 849

Delta R.T. -0.05 min

Lab File: BF087473.D

Acq: 28 May 2016 8:19

Instrument :

BNA_F

ClientSampleId :

CHS-STA-1690(0-4)

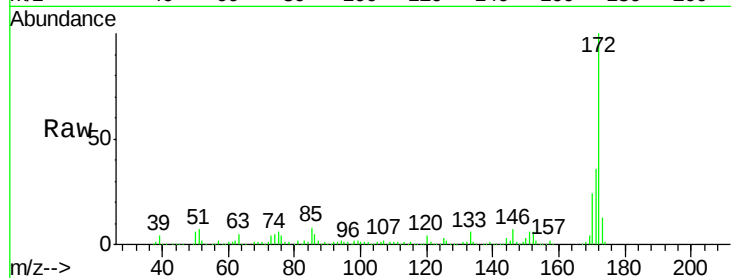
Tgt Ion:172 Resp: 1085540

Ion Ratio Lower Upper

172 100

171 36.1 29.0 43.6

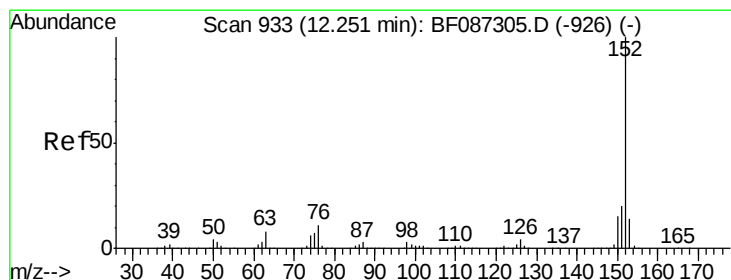
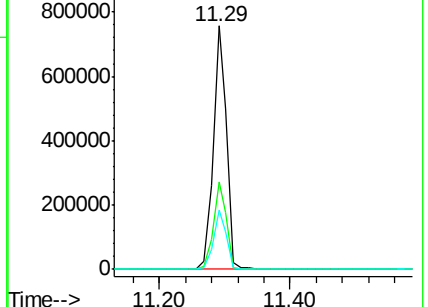
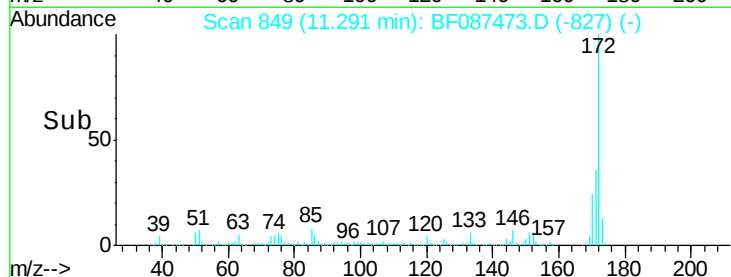
170 24.3 19.8 29.8



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: 5.97 ng

RT: 12.11 min Scan# 921

Delta R.T. -0.05 min

Lab File: BF087473.D

Acq: 28 May 2016 8:19

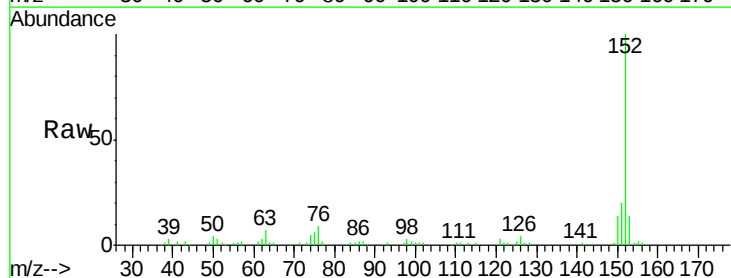
Tgt Ion:152 Resp: 111687

Ion Ratio Lower Upper

152 100

151 20.3 16.8 25.2

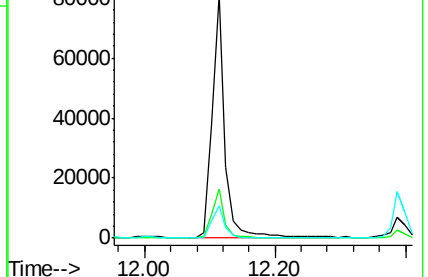
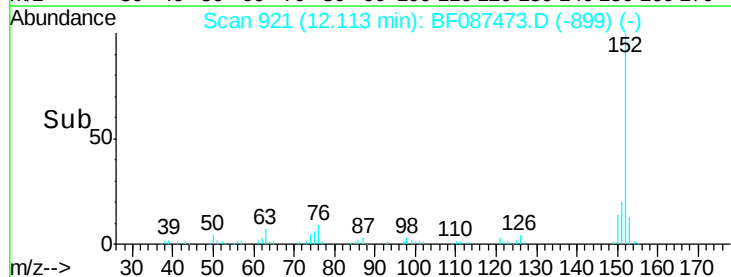
153 13.5 10.9 16.3

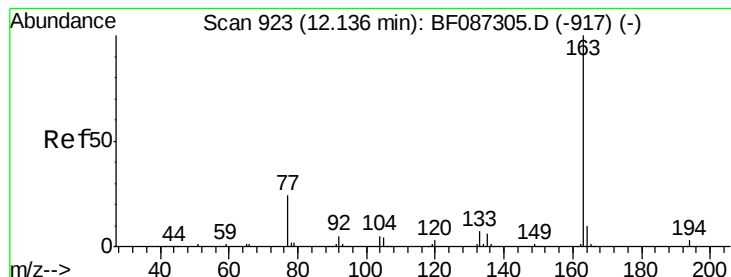


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#49

Dimethylphthalate

Concen: 23.11 ng

RT: 11.99 min Scan# 910

Delta R.T. -0.06 min

Lab File: BF087473.D

Acq: 28 May 2016 8:19

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ClientSampleId :

CHS-STA-1690(0-4)

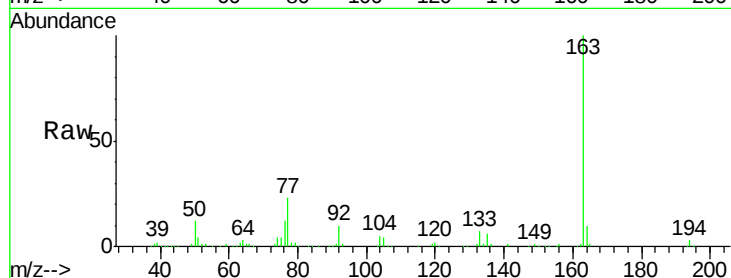
Tgt Ion:163 Resp: 339630

Ion Ratio Lower Upper

163 100

194 3.4 2.6 4.0

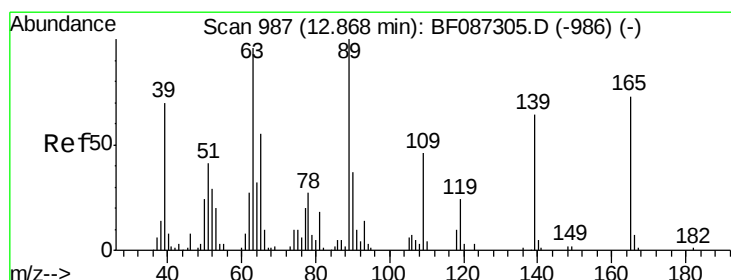
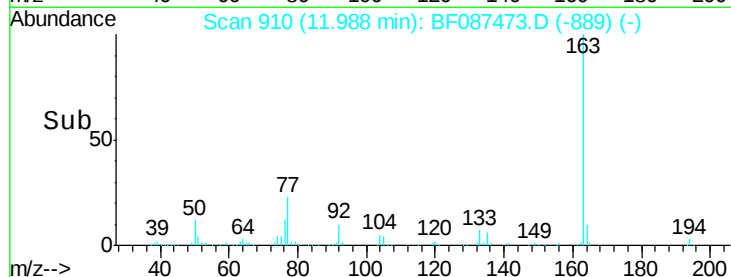
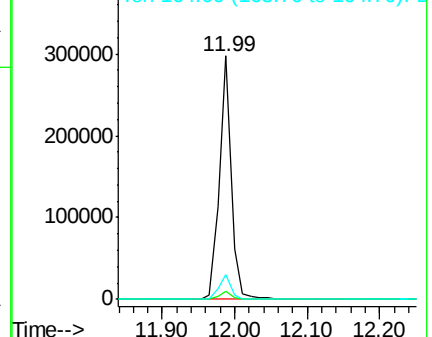
164 10.0 8.2 12.4



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: 5.10 ng

RT: 12.68 min Scan# 971

Delta R.T. -0.09 min

Lab File: BF087473.D

Acq: 28 May 2016 8:19

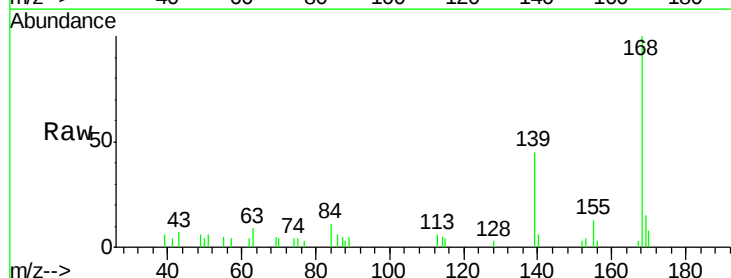
Tgt Ion:139 Resp: 7396

Ion Ratio Lower Upper

139 100

109 0.0 36.9 76.9#

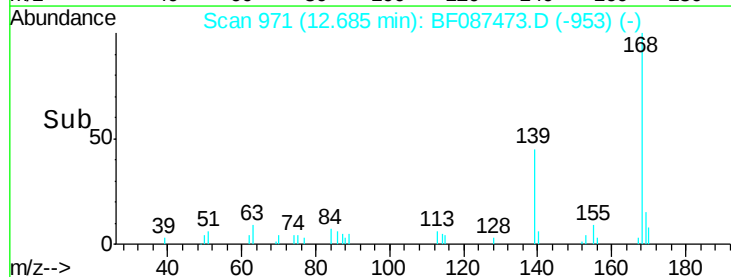
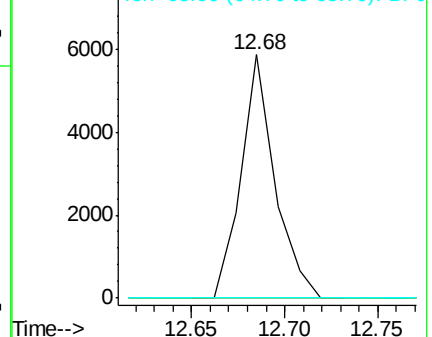
65 0.0 64.0 104.0#

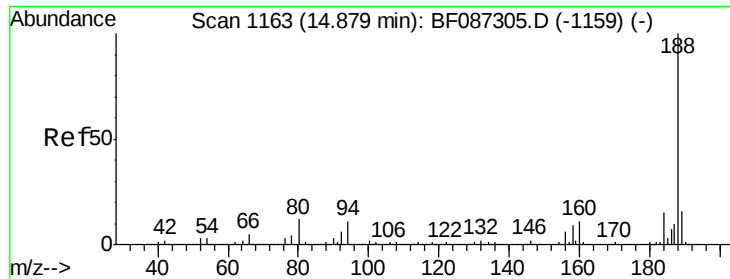


Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF0

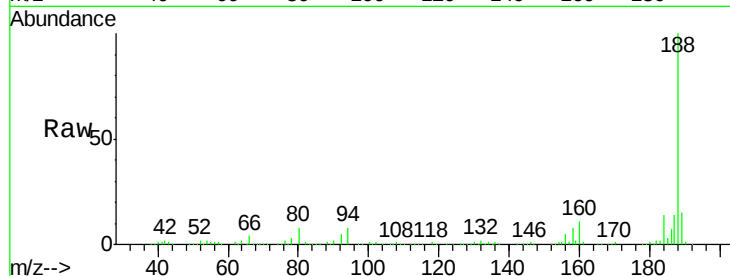




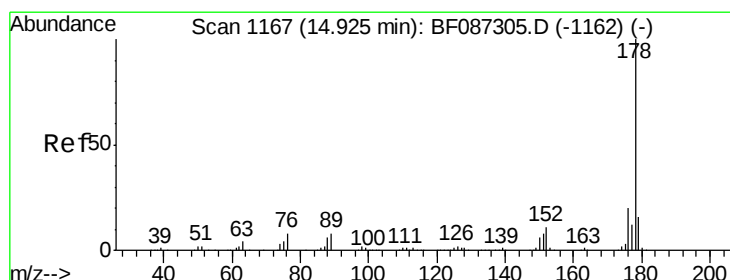
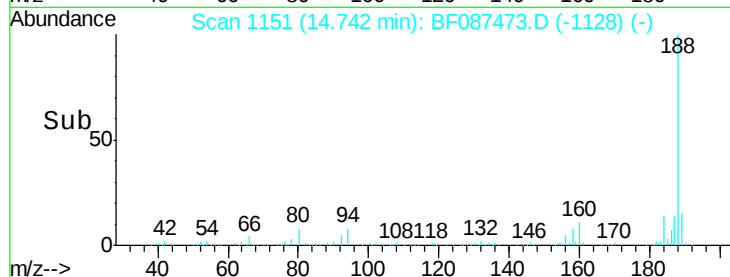
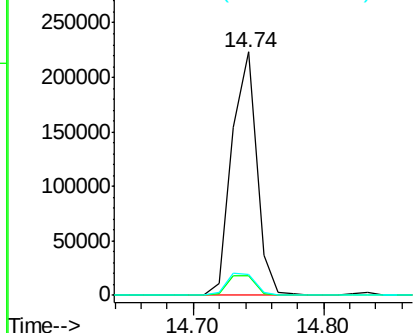
#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 14.74 min Scan# 1151
 Delta R.T. -0.03 min
 Lab File: BF087473.D
 Acq: 28 May 2016 8:19

Instrument :
 BNA_F
 ClientSampleId :
 CHS-STA-1690(0-4)

Tgt Ion:188 Resp: 294974
 Ion Ratio Lower Upper
 188 100
 94 8.0 6.8 10.2
 80 8.5 7.1 10.7

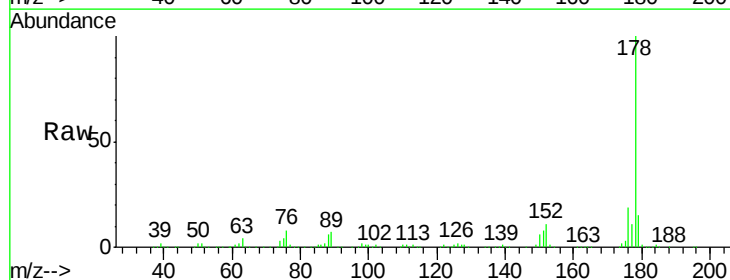


Abundance Ion 188.00 (187.70 to 188.70): E
 Ion 94.00 (93.70 to 94.70): BF0
 Ion 80.00 (79.70 to 80.70): BF0

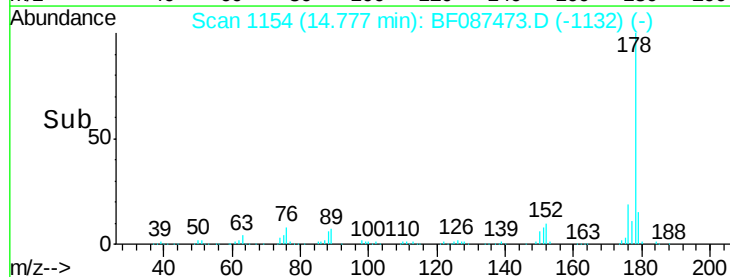
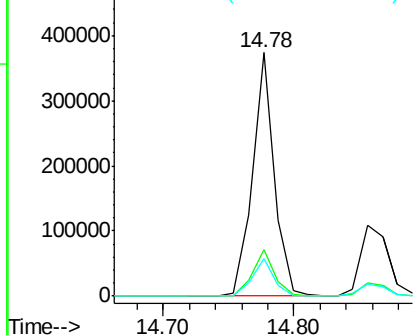


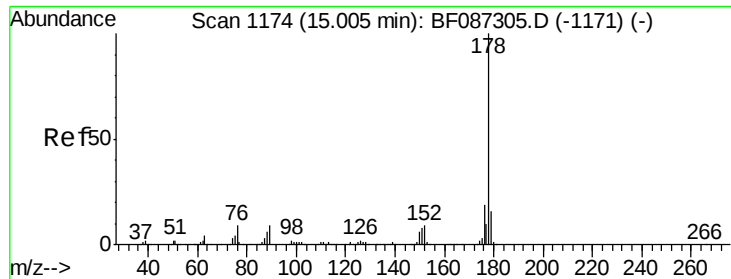
#70
 Phenanthrene
 Concen: 26.69 ng
 RT: 14.78 min Scan# 1154
 Delta R.T. -0.05 min
 Lab File: BF087473.D
 Acq: 28 May 2016 8:19

Tgt Ion:178 Resp: 436103
 Ion Ratio Lower Upper
 178 100
 176 19.1 16.0 24.0
 179 15.3 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

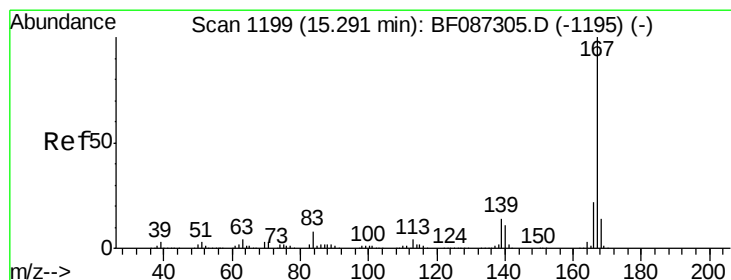
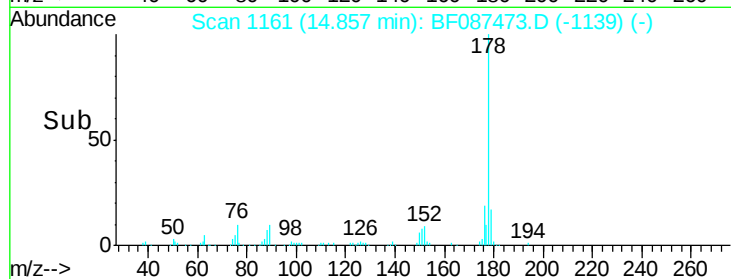
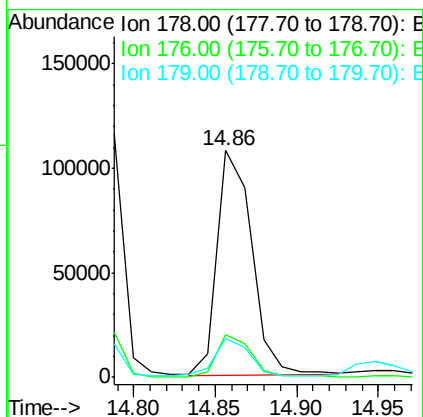
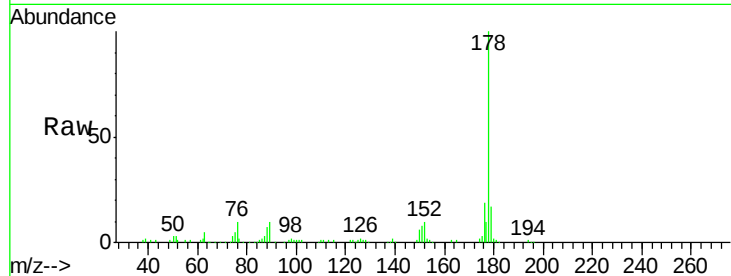




#71
 Anthracene
 Concen: 9.63 ng
 RT: 14.86 min Scan# 1161
 Delta R.T. -0.05 min
 Lab File: BF087473.D
 Acq: 28 May 2016 8:19

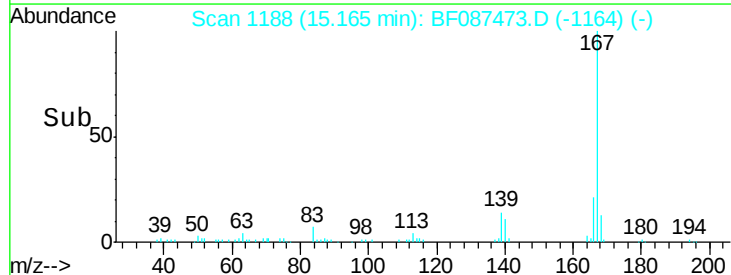
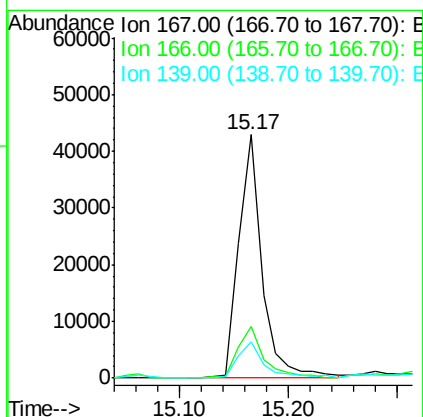
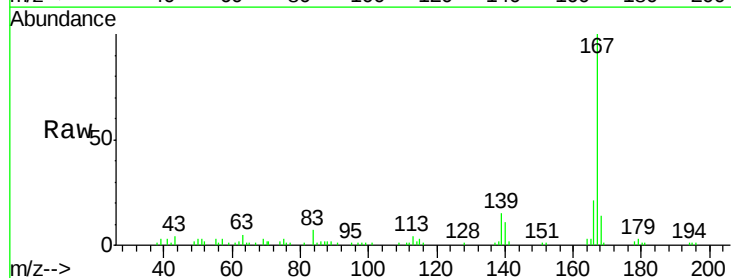
Instrument :
 BNA_F
 ClientSampleId :
 CHS-STA-1690(0-4)

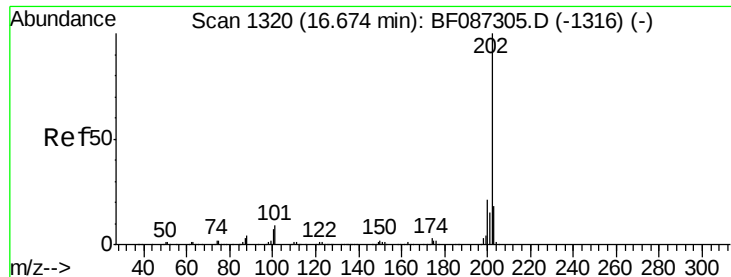
Tgt Ion:178 Resp: 159002
 Ion Ratio Lower Upper
 178 100
 176 18.7 15.6 23.4
 179 17.4 12.7 19.1



#72
 Carbazole
 Concen: 4.50 ng
 RT: 15.17 min Scan# 1188
 Delta R.T. -0.02 min
 Lab File: BF087473.D
 Acq: 28 May 2016 8:19

Tgt Ion:167 Resp: 63394
 Ion Ratio Lower Upper
 167 100
 166 21.3 17.7 26.5
 139 14.8 10.8 16.2





#74

Fluoranthene

Concen: 60.56 ng

RT: 16.55 min Scan# 1309

Delta R.T. -0.03 min

Lab File: BF087473.D

Acq: 28 May 2016 8:19

Instrument :

BNA_F

ClientSampleId :

CHS-STA-1690(0-4)

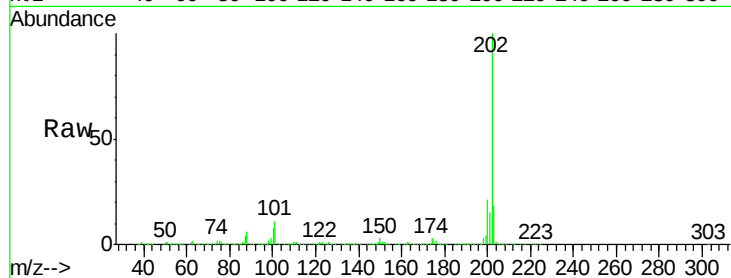
Tgt Ion:202 Resp: 992209

Ion Ratio Lower Upper

202 100

101 11.1 0.0 35.4

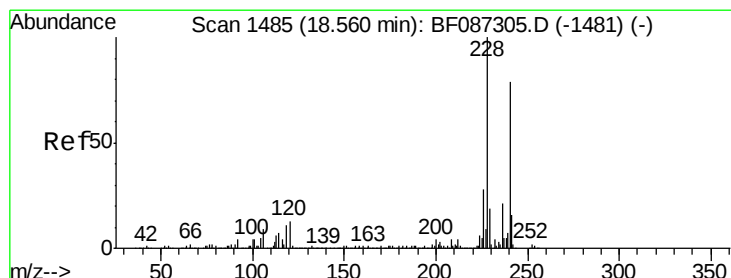
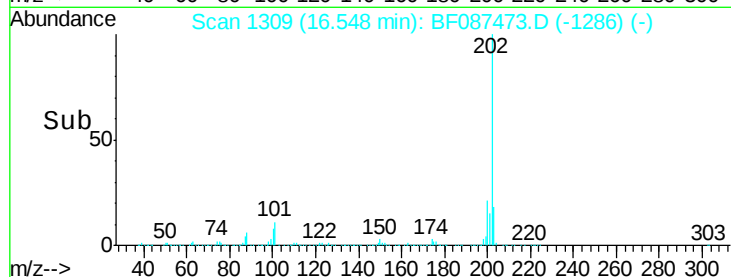
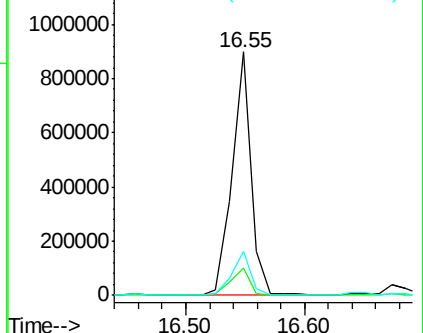
203 17.8 0.0 38.1



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: 18.45 min Scan# 1475

Delta R.T. -0.03 min

Lab File: BF087473.D

Acq: 28 May 2016 8:19

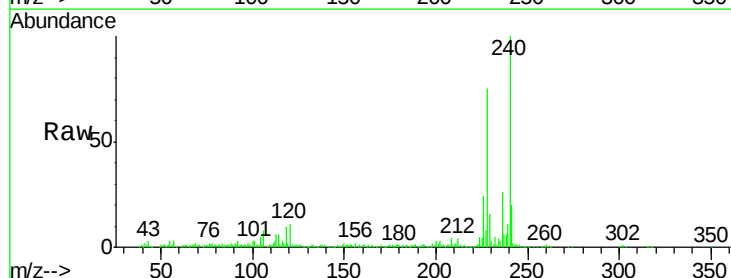
Tgt Ion:240 Resp: 217254

Ion Ratio Lower Upper

240 100

120 11.4 11.2 16.8

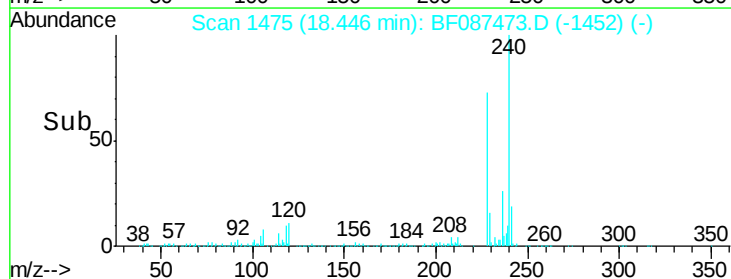
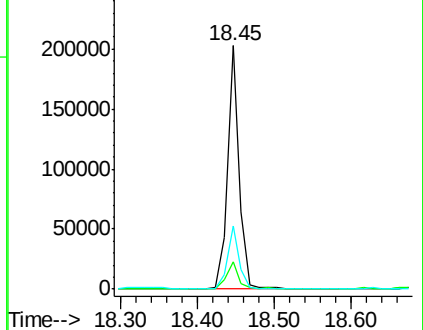
236 26.2 21.2 31.8

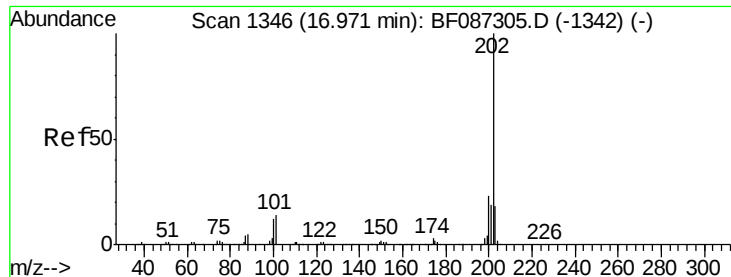


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

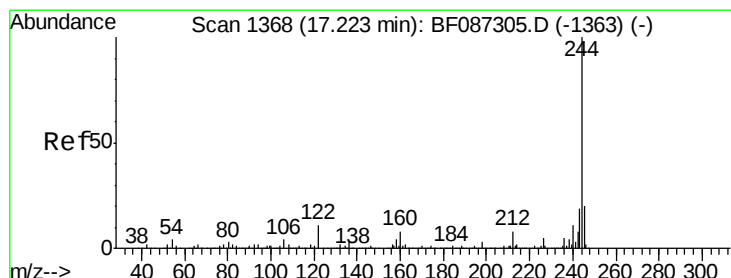
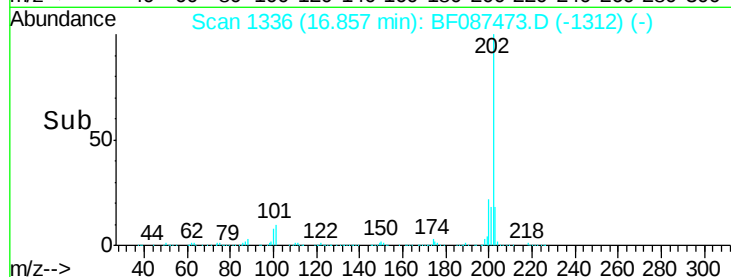
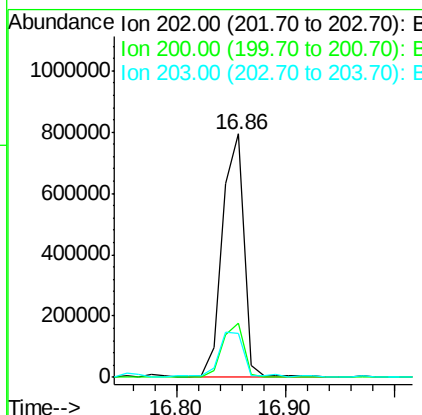
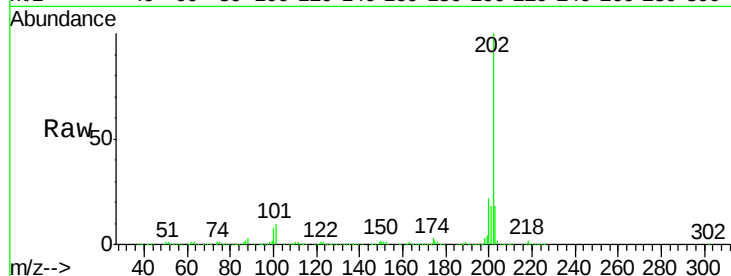




#77
 Pyrene
 Concen: 69.10 ng
 RT: 16.86 min Scan# 1336
 Delta R.T. -0.02 min
 Lab File: BF087473.D
 Acq: 28 May 2016 8:19

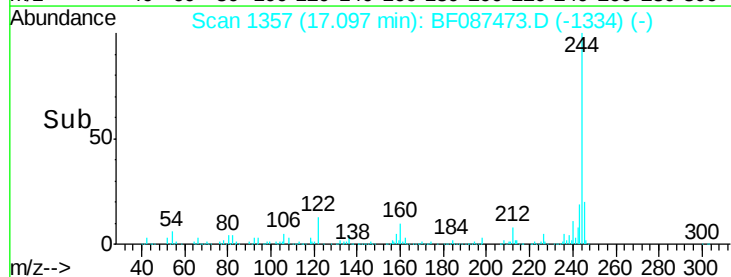
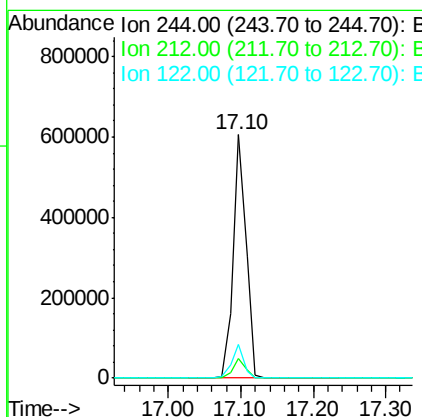
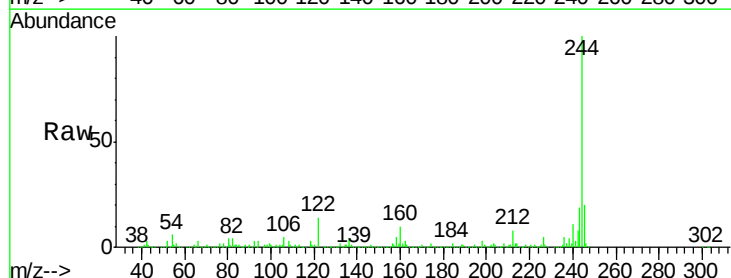
Instrument :
 BNA_F
 ClientSampleId :
 CHS-STA-1690(0-4)

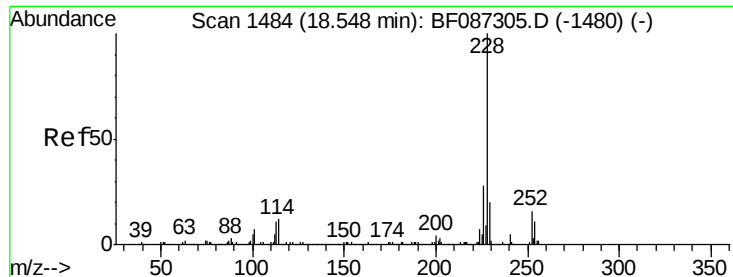
Tgt Ion:202 Resp: 1080662
 Ion Ratio Lower Upper
 202 100
 200 22.0 17.7 26.5
 203 18.1 14.2 21.4



#78
 Terphenyl-d14
 Concen: 73.07 ng
 RT: 17.10 min Scan# 1357
 Delta R.T. -0.03 min
 Lab File: BF087473.D
 Acq: 28 May 2016 8:19

Tgt Ion:244 Resp: 746665
 Ion Ratio Lower Upper
 244 100
 212 8.1 6.2 9.2
 122 13.6 12.0 18.0





#80

Benzo(a)anthracene

Concen: 47.13 ng

RT: 18.43 min Scan# 1474

Delta R.T. -0.02 min

Lab File: BF087473.D

Acq: 28 May 2016 8:19

Instrument :

BNA_F

ClientSampleId :

CHS-STA-1690(0-4)

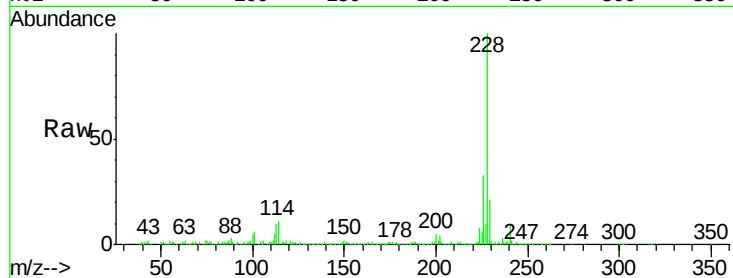
Tgt Ion:228 Resp: 582425

Ion Ratio Lower Upper

228 100

226 32.6 22.5 33.7

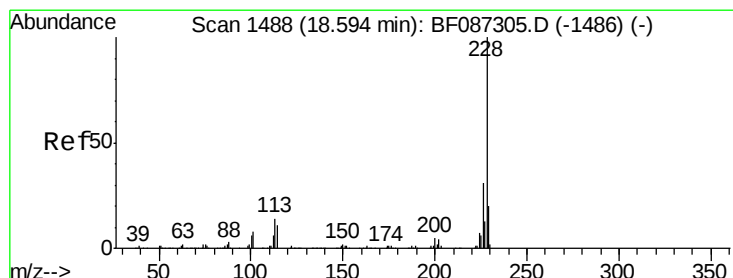
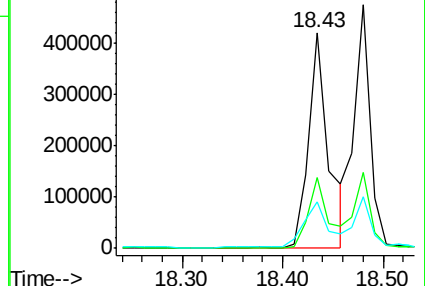
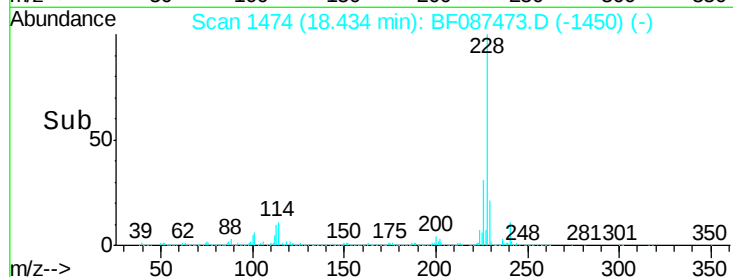
229 21.5 16.6 25.0



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: 43.04 ng

RT: 18.48 min Scan# 1478

Delta R.T. -0.03 min

Lab File: BF087473.D

Acq: 28 May 2016 8:19

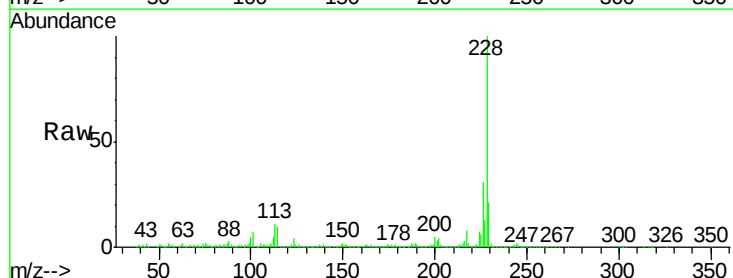
Tgt Ion:228 Resp: 527861

Ion Ratio Lower Upper

228 100

226 31.2 24.4 36.6

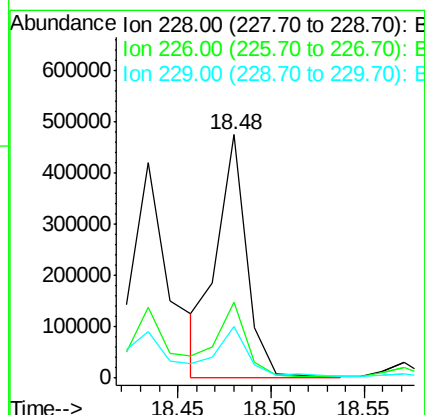
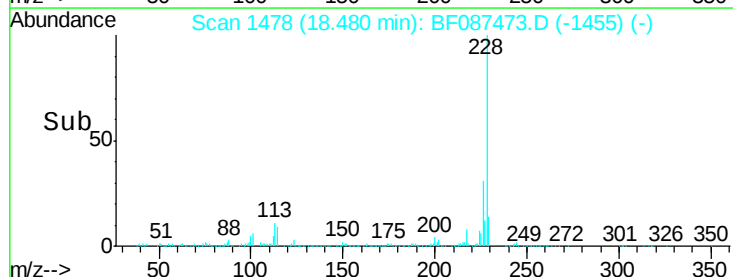
229 21.0 15.8 23.8

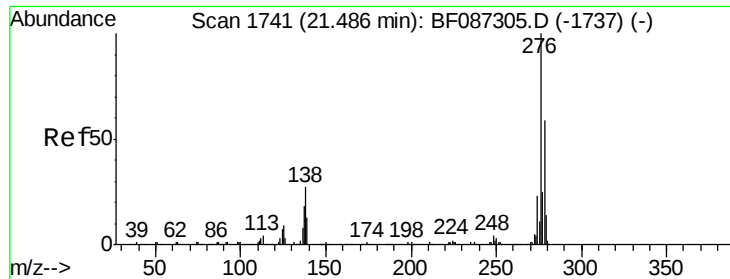


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#85

Indeno(1,2,3-cd)pyrene

Concen: 19.57 ng

RT: 21.34 min Scan# 1728

Delta R.T. -0.02 min

Lab File: BF087473.D

Acq: 28 May 2016 8:19

Instrument :

BNA_F

ClientSampleId :

CHS-STA-1690(0-4)

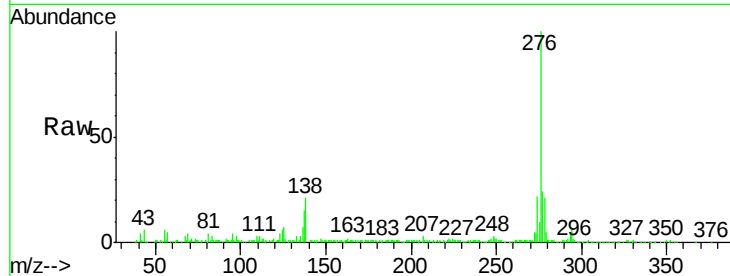
Tgt Ion:276 Resp: 192419

Ion Ratio Lower Upper

276 100

138 20.6 25.6 38.4#

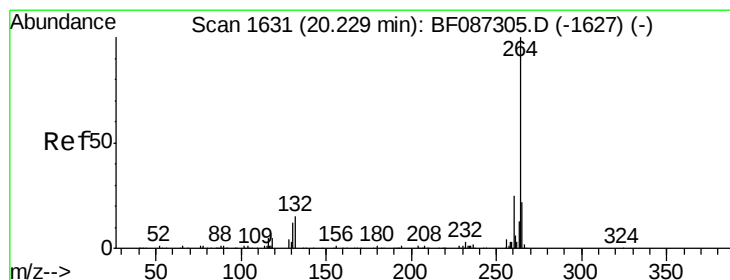
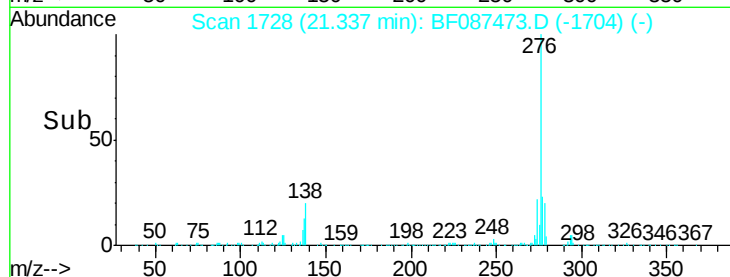
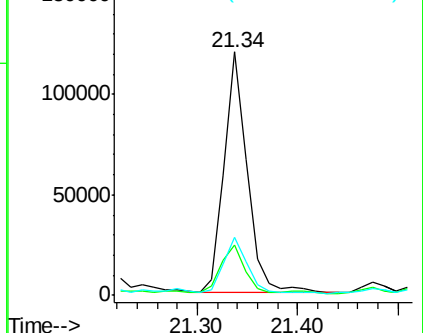
277 23.8 20.5 30.7



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: 20.11 min Scan# 1621

Delta R.T. -0.02 min

Lab File: BF087473.D

Acq: 28 May 2016 8:19

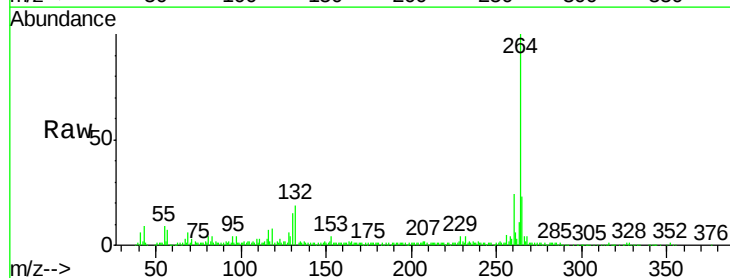
Tgt Ion:264 Resp: 169631

Ion Ratio Lower Upper

264 100

260 24.4 19.5 29.3

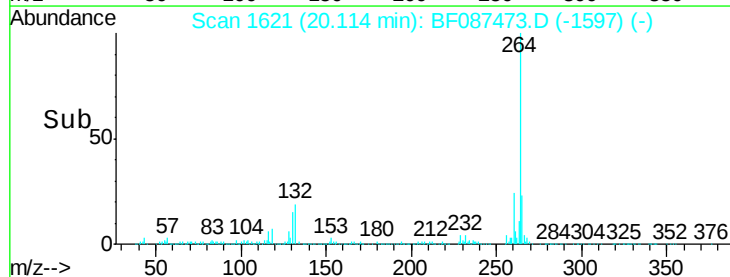
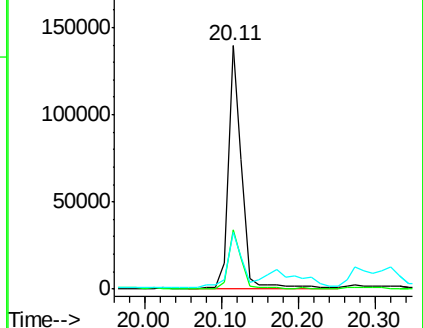
265 23.4 17.3 25.9

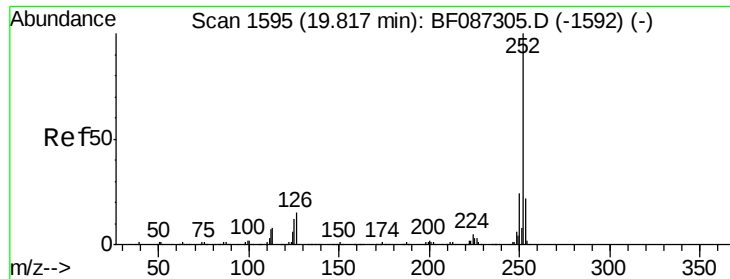


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 8.72 ng

RT: 19.82 min Scan# 1595

Delta R.T. 0.09 min

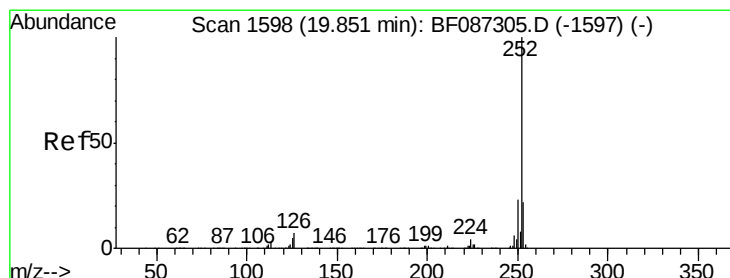
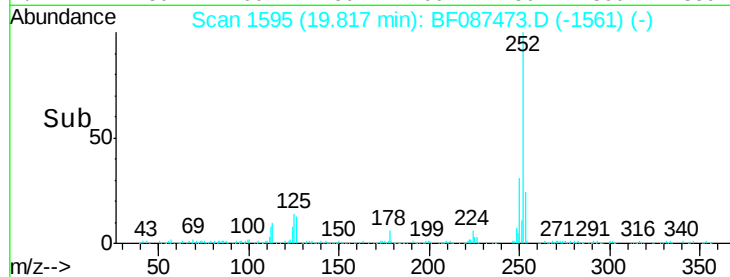
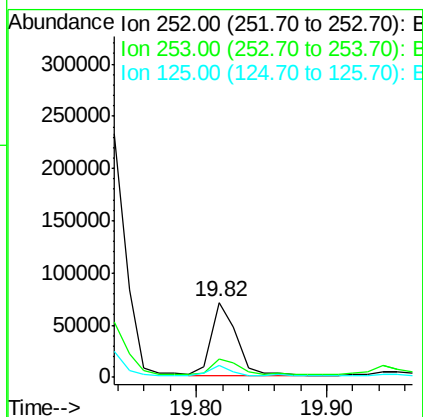
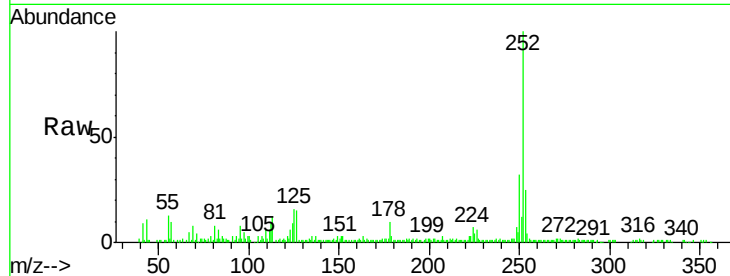
Lab File: BF087473.D

Acq: 28 May 2016 8:19

Instrument :
BNA_F
ClientSampleId :
CHS-STA-1690(0-4)

Tgt Ion: 252 Resp: 94217

Ion	Ratio	Lower	Upper
252	100		
253	25.2	17.8	26.6
125	16.3	11.4	17.0



#88

Benzo(k)fluoranthene

Concen: 91.35 ng

RT: 19.71 min Scan# 1586

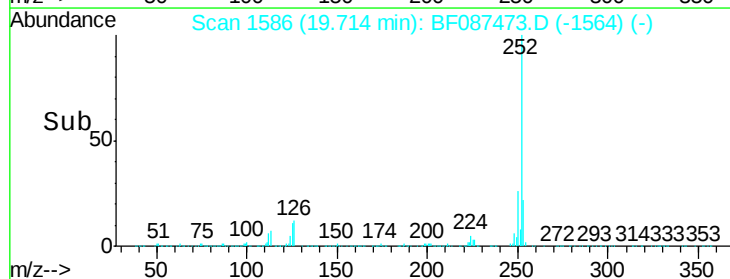
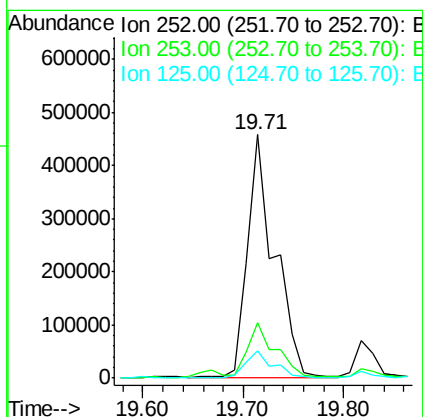
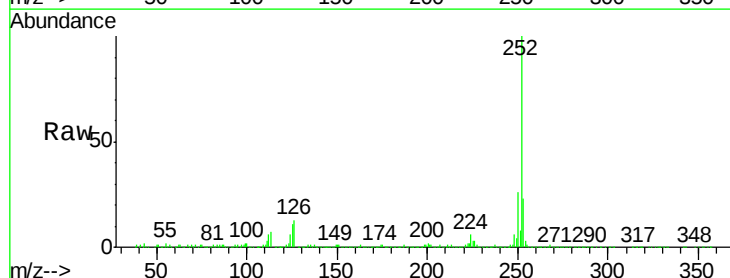
Delta R.T. -0.05 min

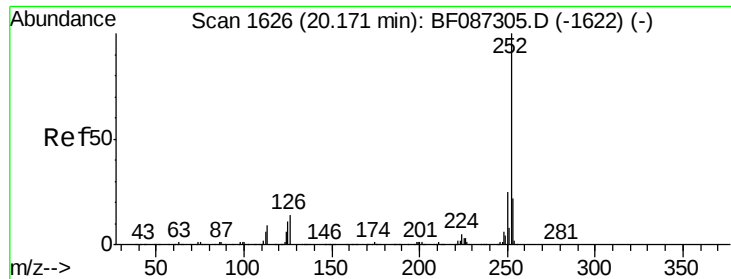
Lab File: BF087473.D

Acq: 28 May 2016 8:19

Tgt Ion: 252 Resp: 849650

Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.8	26.6
125	11.3	9.1	13.7





#89

Benzo(a)pyrene

Concen: 32.43 ng

RT: 20.06 min Scan# 1616

Delta R.T. -0.02 min

Lab File: BF087473.D

Acq: 28 May 2016 8:19

Instrument :

BNA_F

ClientSampleId :

CHS-STA-1690(0-4)

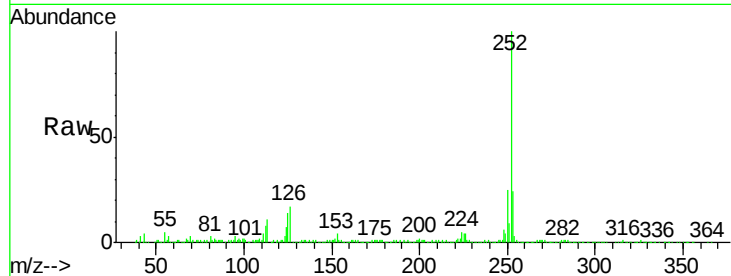
Tgt Ion:252 Resp: 303063

Ion Ratio Lower Upper

252 100

253 23.6 17.2 25.8

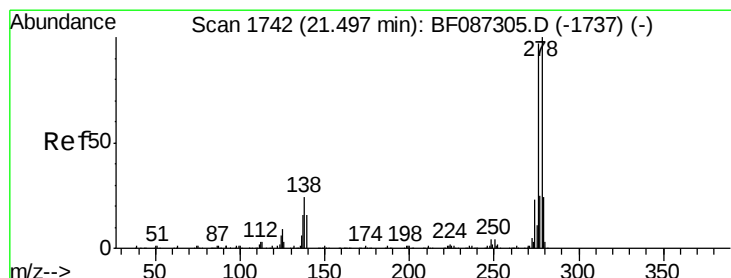
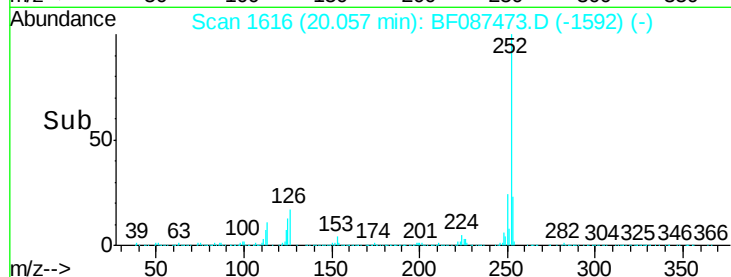
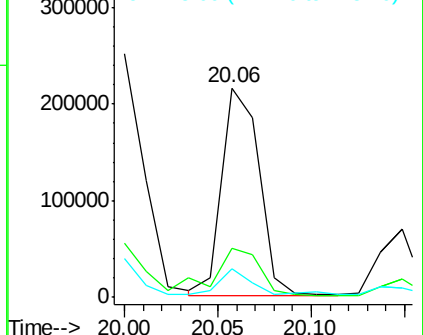
125 13.8 9.0 13.6#



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: 4.07 ng

RT: 21.47 min Scan# 1740

Delta R.T. 0.11 min

Lab File: BF087473.D

Acq: 28 May 2016 8:19

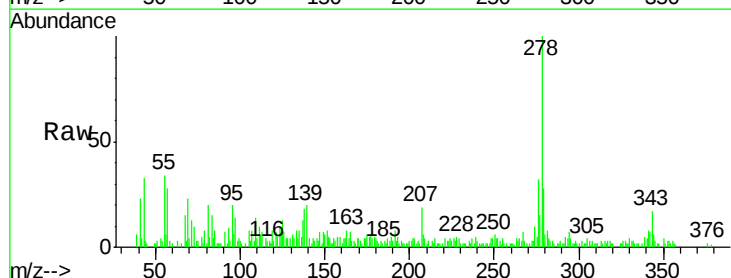
Tgt Ion:278 Resp: 32451

Ion Ratio Lower Upper

278 100

139 20.3 16.6 24.8

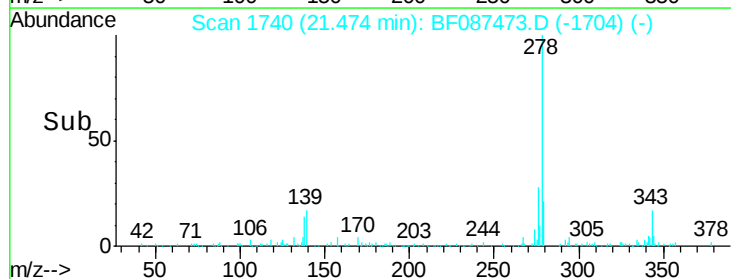
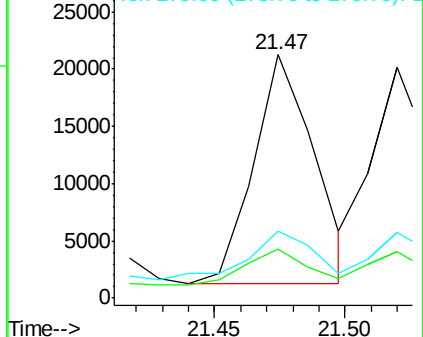
279 27.6 19.6 29.4

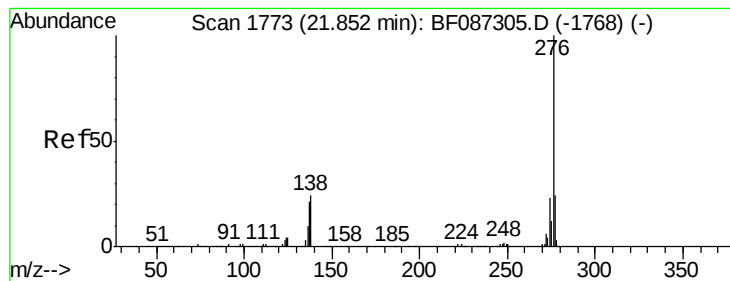


Abundance Ion 278.00 (277.70 to 278.70): E

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: 20.98 ng

RT: 21.69 min Scan# 1759

Delta R.T. -0.02 min

Lab File: BF087473.D

Acq: 28 May 2016 8:19

Instrument :

BNA_F

ClientSampleId :

CHS-STA-1690(0-4)

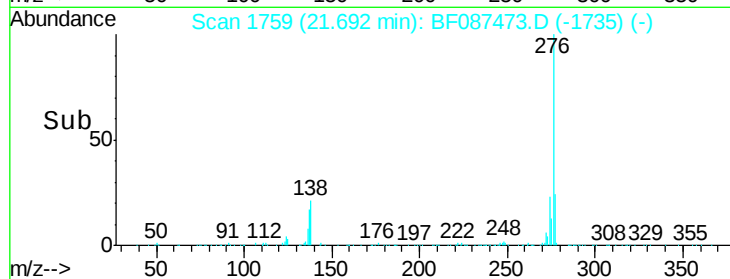
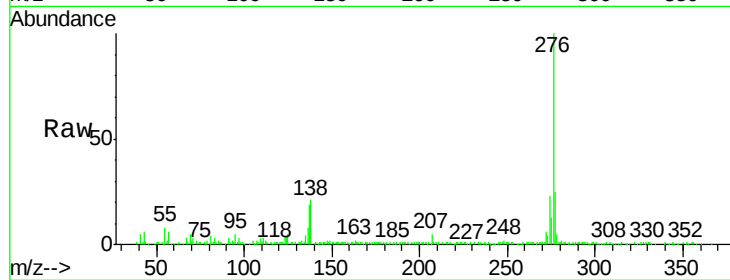
Tgt Ion: 276 Resp: 165030

Ion Ratio Lower Upper

276 100

277 25.3 19.6 29.4

138 21.5 23.6 35.4#



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

