

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF032516\
 Data File : BF085765.D
 Acq On : 25 Mar 2016 16:54
 Operator : UM/SJ
 Sample : H1857-03DL 10X
 Misc :
 ALS Vial : 67 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-04(3-5)DL

Quant Time: Mar 25 21:52:32 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF032416.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Mar 24 14:15:39 2016
 Response via : Initial Calibration

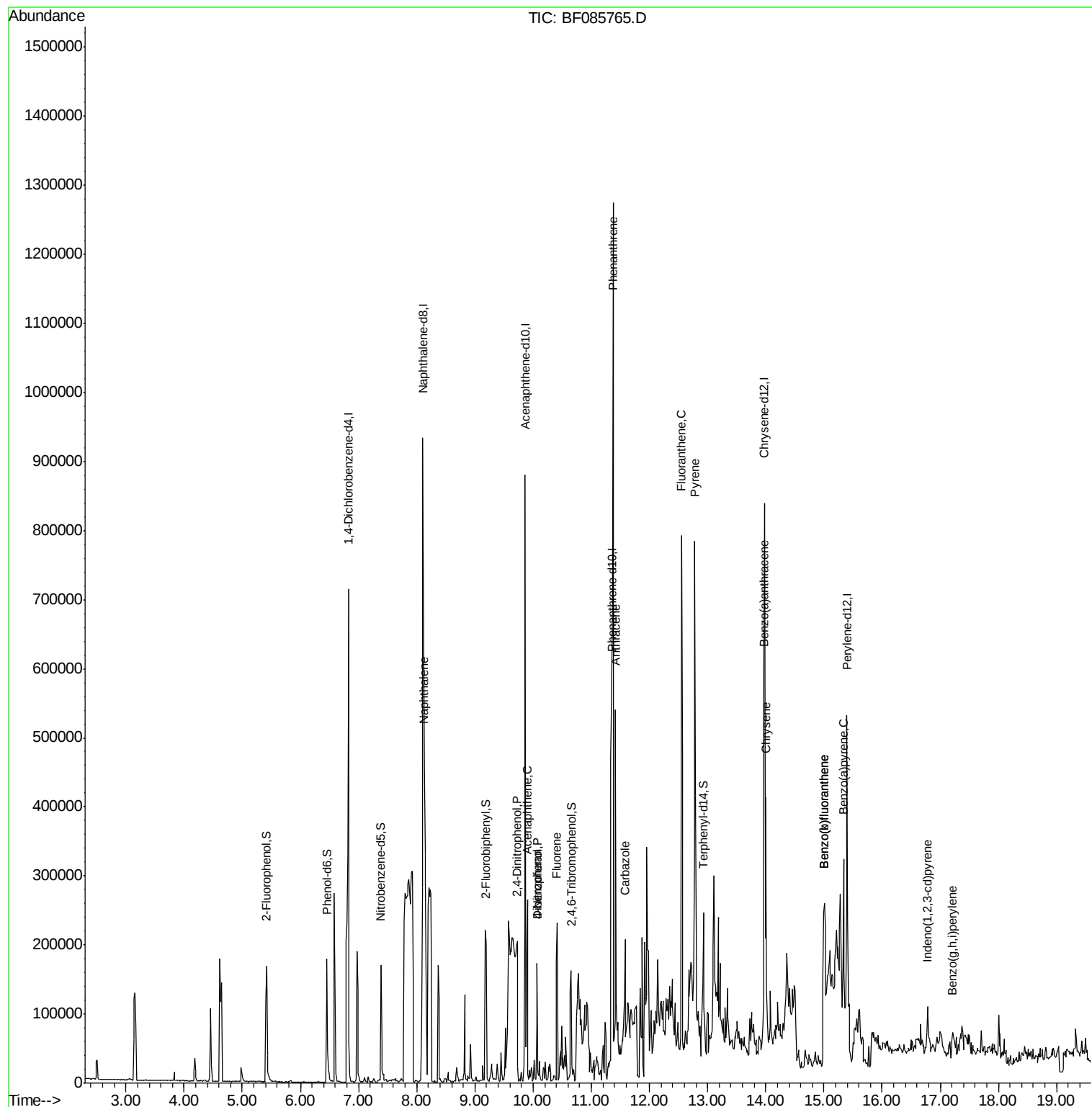
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.82	152	105770	20.00	ng	0.00
21) Naphthalene-d8	8.10	136	392566	20.00	ng	-0.01
38) Acenaphthene-d10	9.86	164	168651	20.00	ng	0.00
63) Phenanthrene-d10	11.35	188	261737	20.00	ng	0.00
75) Chrysene-d12	13.98	240	211842	20.00	ng	0.00
86) Perylene-d12	15.40	264	190798	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.42	112	81527	12.84	ng	0.01
7) Phenol-d6	6.46	99	105631	13.08	ng	0.00
23) Nitrobenzene-d5	7.38	82	65838	9.44	ng	-0.01
41) 2,4,6-Tribromophenol	10.65	330	13482	8.41	ng	0.00
44) 2-Fluorobiphenyl	9.19	172	102882	10.19	ng	0.00
78) Terphenyl-d14	12.93	244	61206	5.94	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.13	128	89842	4.54	ng	99
51) Acenaphthene	9.90	154	76203	7.32	ng	100
53) 2,4-Dinitrophenol	9.73	184	939	6.66	ng	# 73
54) Dibenzofuran	10.07	168	69848	5.18	ng	97
55) 4-Nitrophenol	10.07	139	28483	13.87	ng	# 12
57) Fluorene	10.41	166	83878	7.49	ng	97
70) Phenanthrene	11.37	178	561579	41.79	ng	99
71) Anthracene	11.42	178	192079	13.61	ng	98
72) Carbazole	11.58	167	59983	5.06	ng	98
74) Fluoranthene	12.55	202	351039	24.57	ng	99
77) Pyrene	12.78	202	321547	18.47	ng	98
80) Benzo(a)anthracene	13.97	228	157288	13.02	ng	98
82) Chrysene	14.00	228	111826	9.19	ng	96
85) Indeno(1,2,3-cd)pyrene	16.78	276	34475	3.67	ng	98
87) Benzo(b)fluoranthene	15.00	252	163773	13.63	ng	99
88) Benzo(k)fluoranthene	15.00	252	163773	15.11	ng	# 98
89) Benzo(a)pyrene	15.34	252	94116	8.82	ng	97
91) Benzo(g,h,i)perylene	17.20	276	35239	3.51	ng	93

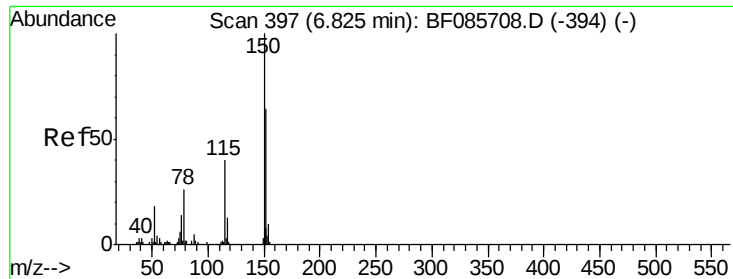
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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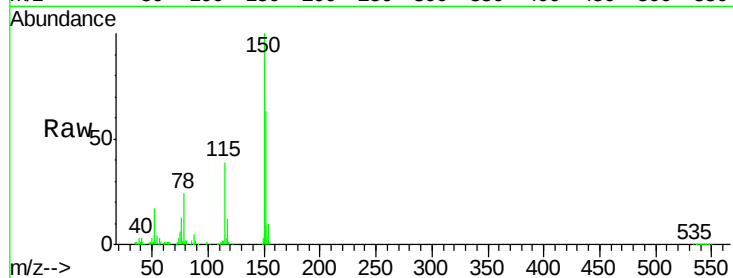


#1

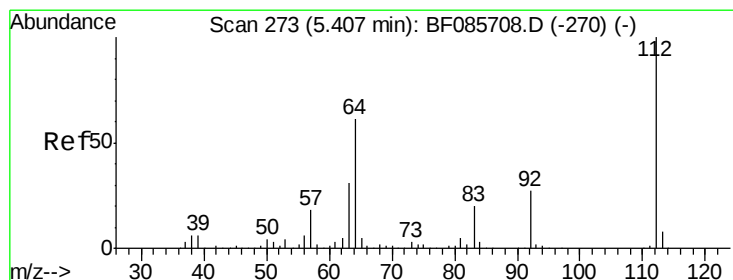
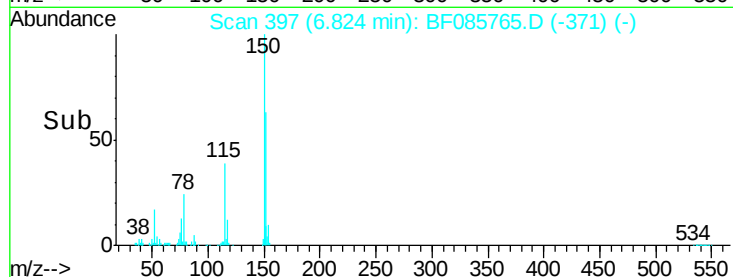
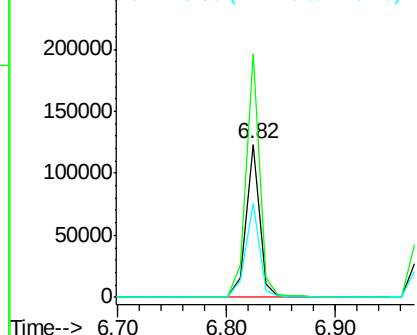
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.82 min Scan# 397
Delta R.T. -0.00 min
Lab File: BF085765.D
Acq: 25 Mar 2016 16:54

Instrument :
BNA_F
ClientSampleId :
SB-04(3-5)DL

Tgt Ion:152 Resp: 105770
Ion Ratio Lower Upper
152 100
150 159.0 124.2 186.2
115 61.4 47.0 70.6



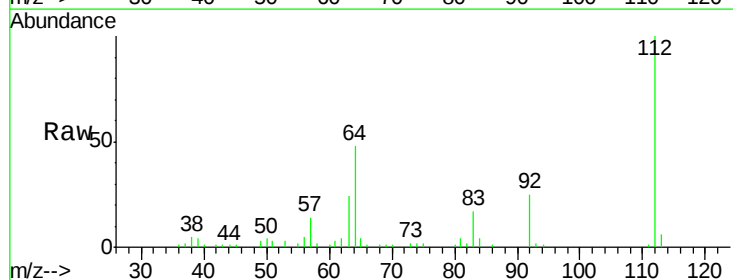
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



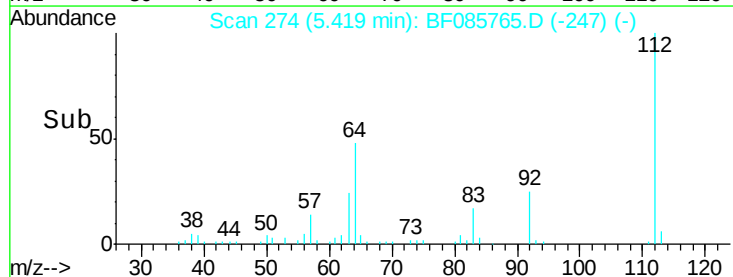
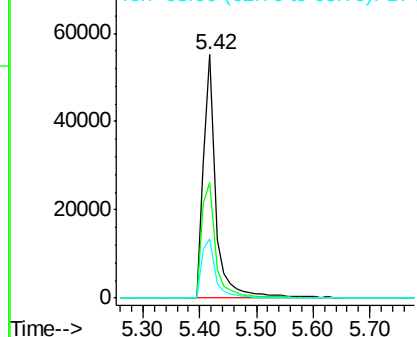
#5

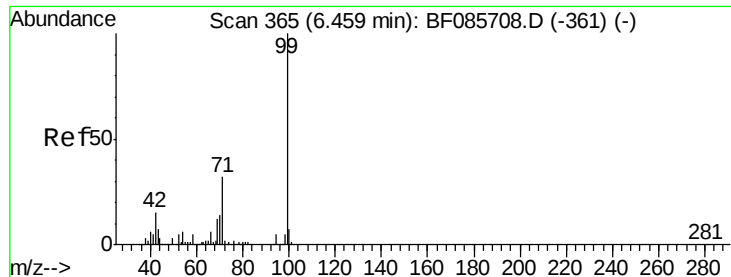
2-Fluorophenol
Concen: 12.84 ng
RT: 5.42 min Scan# 274
Delta R.T. 0.01 min
Lab File: BF085765.D
Acq: 25 Mar 2016 16:54

Tgt Ion:112 Resp: 81527
Ion Ratio Lower Upper
112 100
64 47.6 39.9 59.9
63 24.2 20.2 30.2



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: 13.08 ng

RT: 6.46 min Scan# 365

Delta R.T. -0.00 min

Lab File: BF085765.D

Acq: 25 Mar 2016 16:54

Instrument :

BNA_F

ClientSampleId :

SB-04(3-5)DL

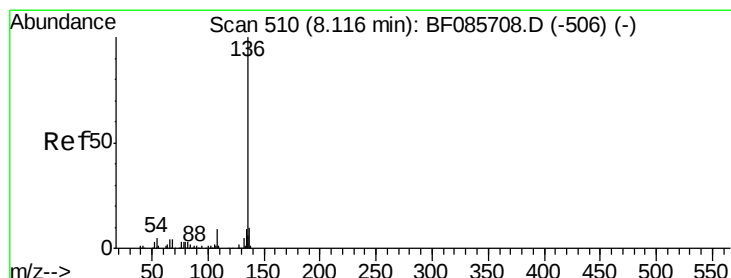
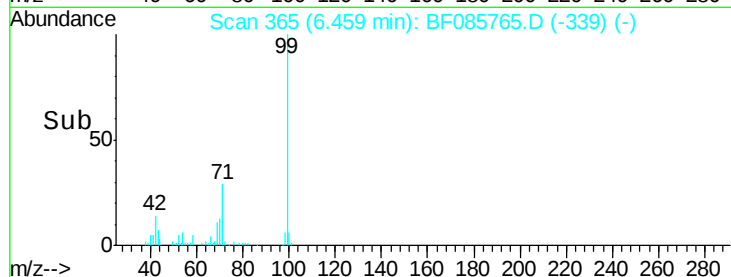
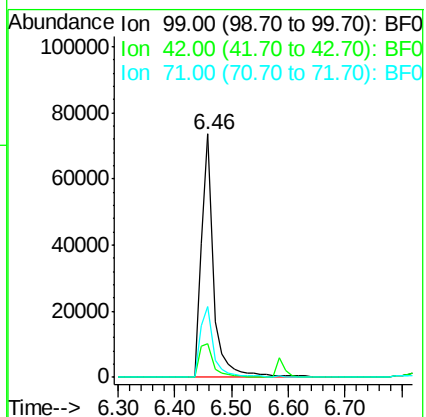
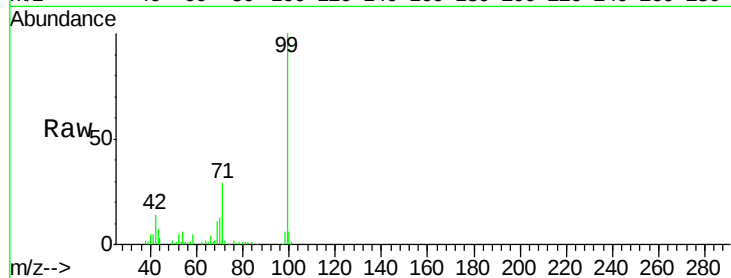
Tgt Ion: 99 Resp: 105631

Ion Ratio Lower Upper

99 100

42 13.6 11.1 16.7

71 29.0 24.9 37.3



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.10 min Scan# 509

Delta R.T. -0.01 min

Lab File: BF085765.D

Acq: 25 Mar 2016 16:54

Tgt Ion: 136 Resp: 392566

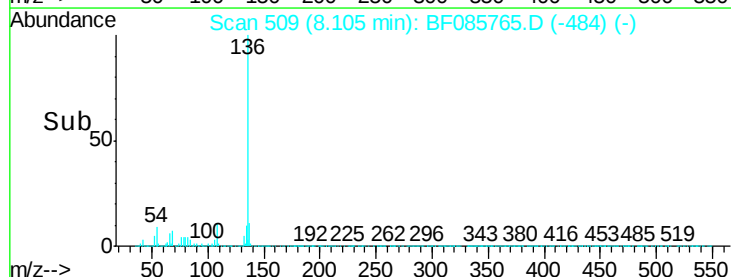
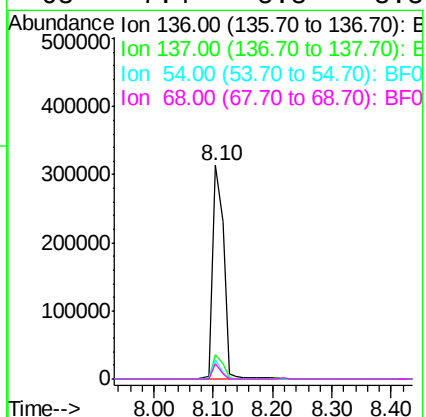
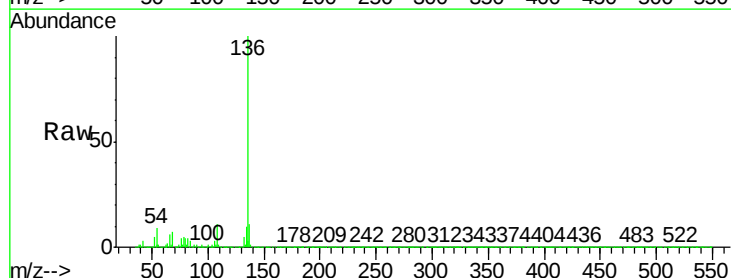
Ion Ratio Lower Upper

136 100

137 11.4 9.1 13.7

54 9.1 7.4 11.0

68 7.4 5.8 8.8

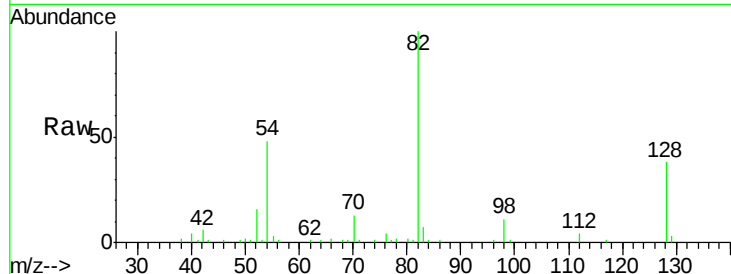




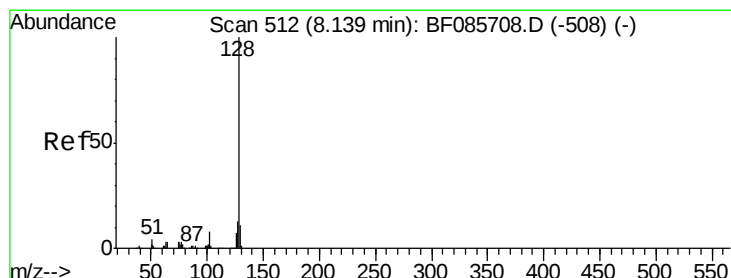
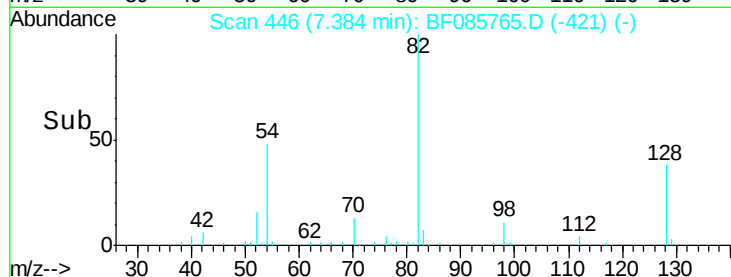
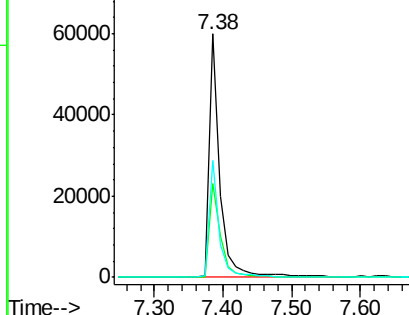
#23
 Nitrobenzene-d5
 Concen: 9.44 ng
 RT: 7.38 min Scan# 446
 Delta R.T. -0.01 min
 Lab File: BF085765.D
 Acq: 25 Mar 2016 16:54

Instrument :
 BNA_F
 ClientSampleId :
 SB-04(3-5)DL

Tgt Ion: 82 Resp: 65838
 Ion Ratio Lower Upper
 82 100
 128 38.5 41.8 62.8#
 54 48.2 33.4 50.0

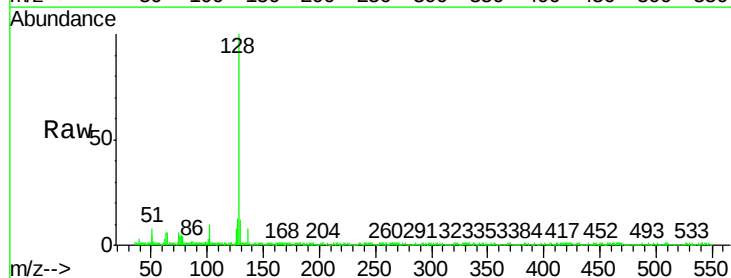


Abundance Ion 82.00 (81.70 to 82.70): BF0
 Ion 128.00 (127.70 to 128.70): E
 Ion 54.00 (53.70 to 54.70): BF0

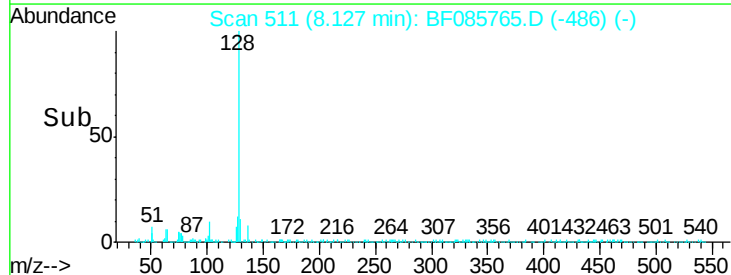
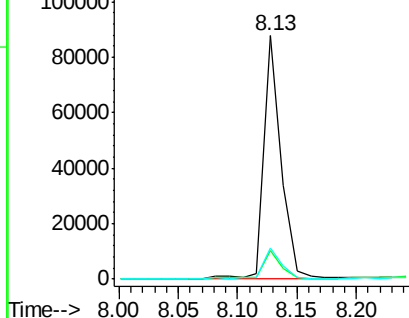


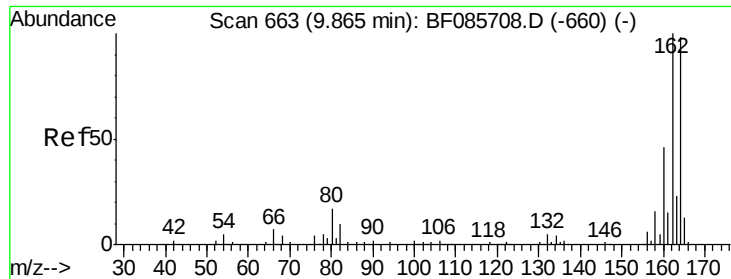
#31
 Naphthalene
 Concen: 4.54 ng
 RT: 8.13 min Scan# 511
 Delta R.T. -0.01 min
 Lab File: BF085765.D
 Acq: 25 Mar 2016 16:54

Tgt Ion: 128 Resp: 89842
 Ion Ratio Lower Upper
 128 100
 129 11.7 9.4 14.0
 127 12.8 11.0 16.6



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: 9.86 min Scan# 663

Delta R.T. -0.00 min

Lab File: BF085765.D

Acq: 25 Mar 2016 16:54

Instrument :

BNA_F

ClientSampleId :

SB-04(3-5)DL

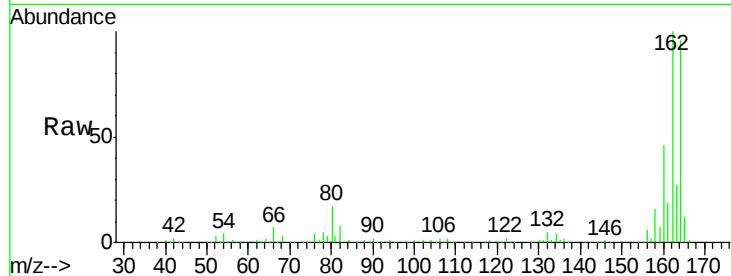
Tgt Ion:164 Resp: 168651

Ion Ratio Lower Upper

164 100

162 104.1 82.1 123.1

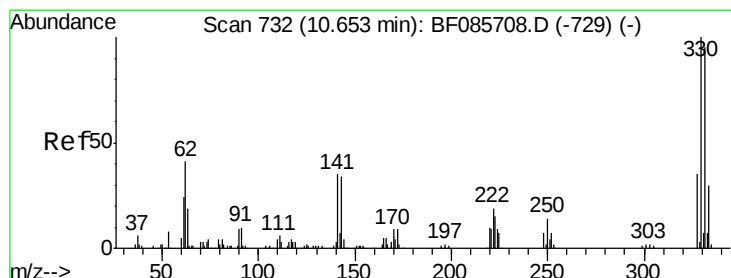
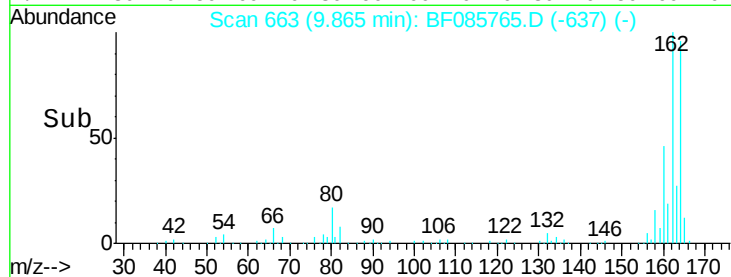
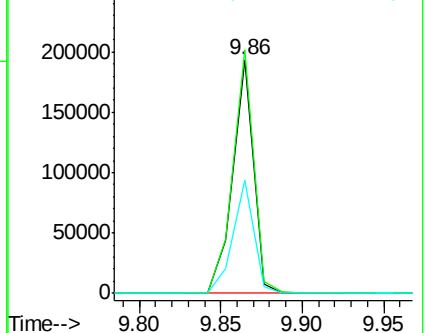
160 48.2 37.4 56.2



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: 8.41 ng

RT: 10.65 min Scan# 732

Delta R.T. -0.00 min

Lab File: BF085765.D

Acq: 25 Mar 2016 16:54

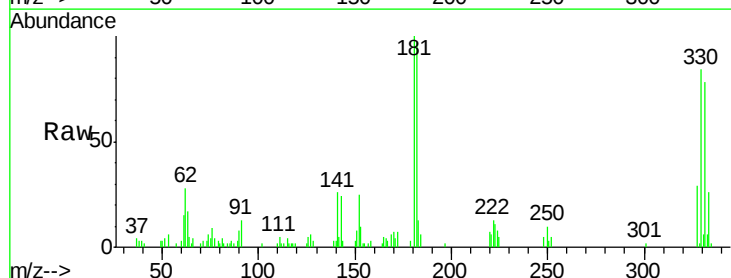
Tgt Ion:330 Resp: 13482

Ion Ratio Lower Upper

330 100

332 93.9 78.2 117.2

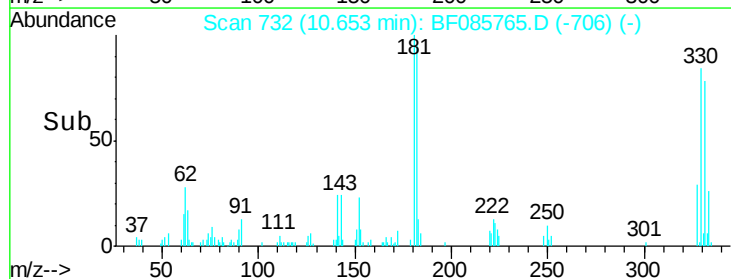
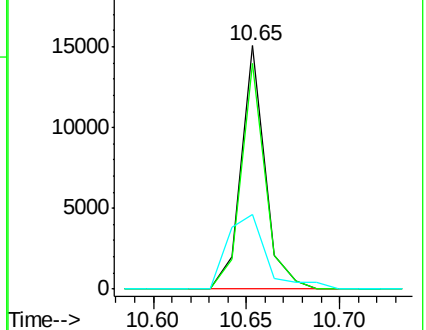
141 50.8 31.5 47.3#

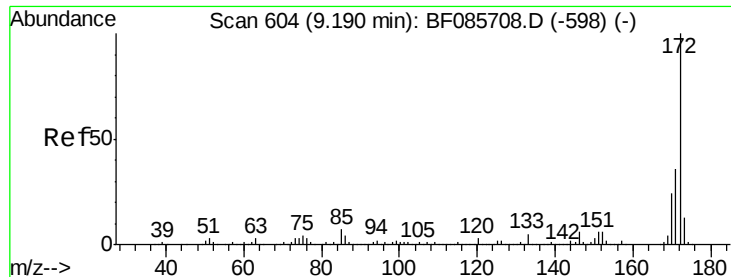


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

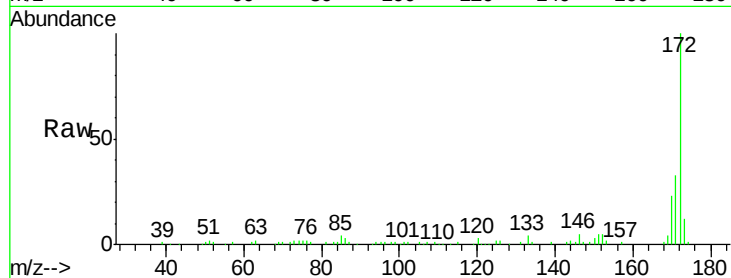




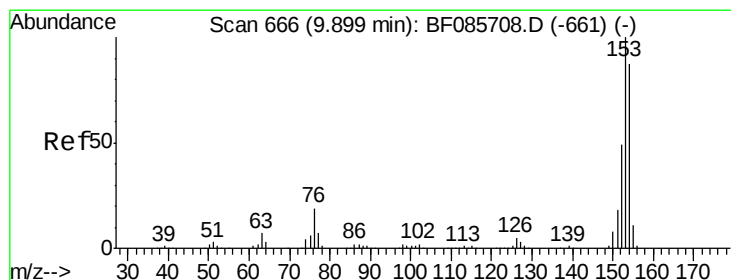
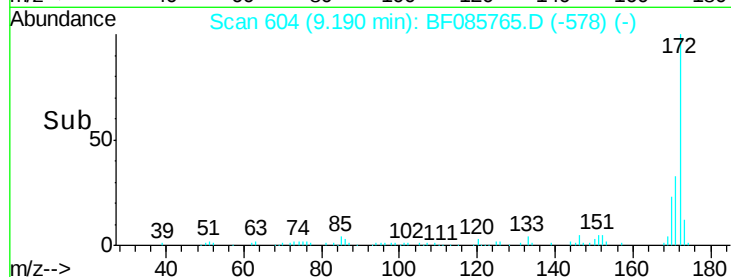
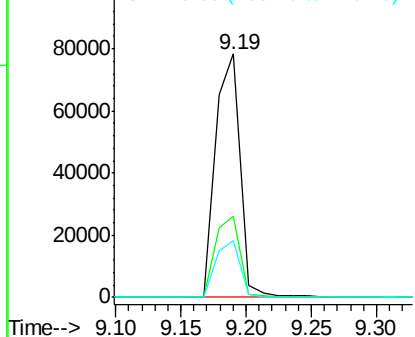
#44
 2-Fluorobiphenyl
 Concen: 10.19 ng
 RT: 9.19 min Scan# 604
 Delta R.T. -0.00 min
 Lab File: BF085765.D
 Acq: 25 Mar 2016 16:54

Instrument :
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 SB-04(3-5)DL

Tgt Ion:172 Resp: 102882
 Ion Ratio Lower Upper
 172 100
 171 33.4 29.4 44.2
 170 23.2 19.8 29.6

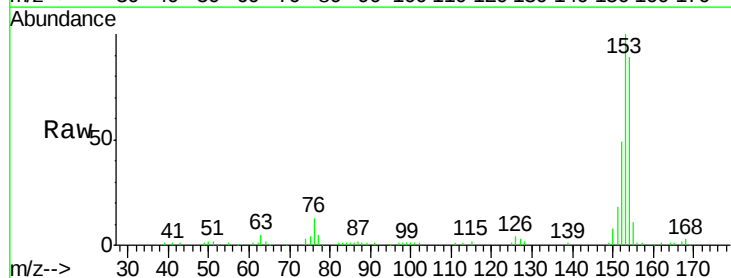


Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E

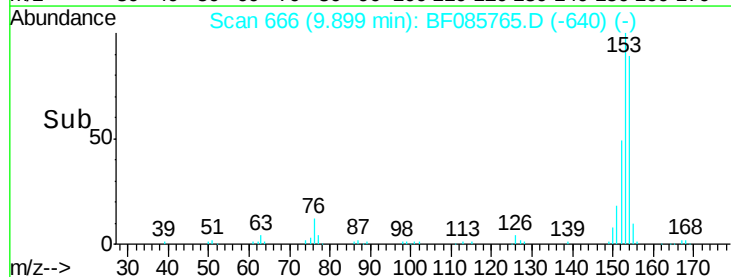
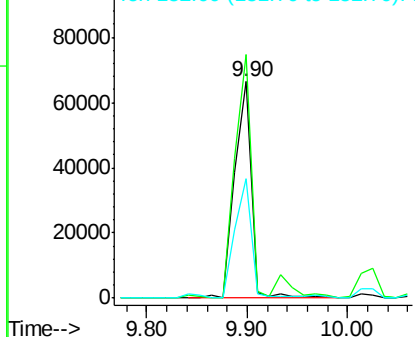


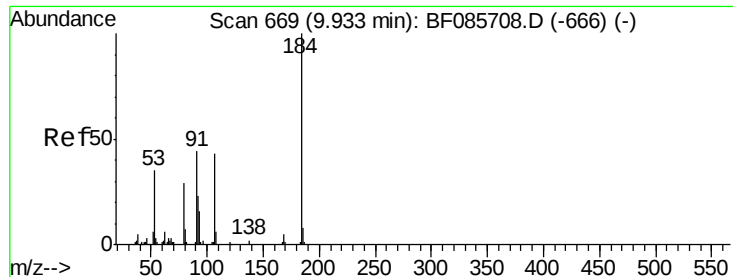
#51
 Acenaphthene
 Concen: 7.32 ng
 RT: 9.90 min Scan# 666
 Delta R.T. -0.00 min
 Lab File: BF085765.D
 Acq: 25 Mar 2016 16:54

Tgt Ion:154 Resp: 76203
 Ion Ratio Lower Upper
 154 100
 153 112.6 90.1 135.1
 152 55.2 44.2 66.2



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

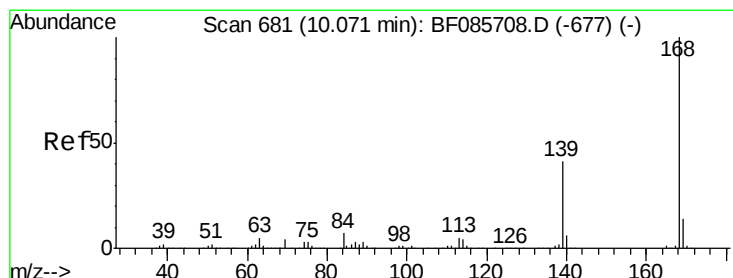
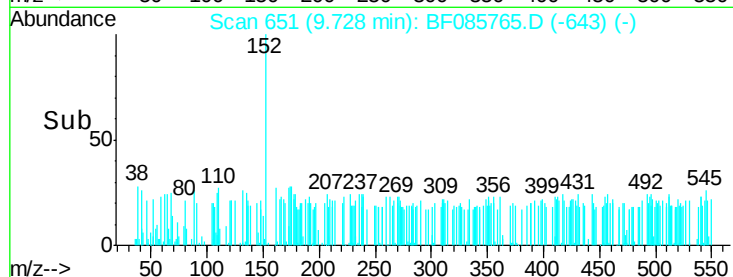
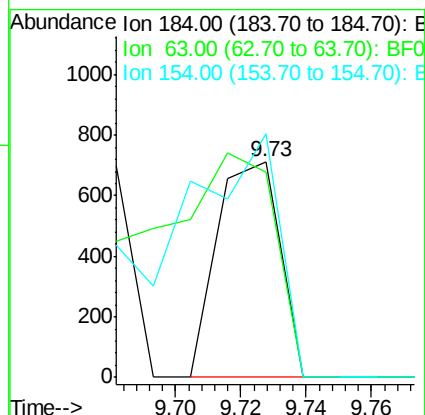
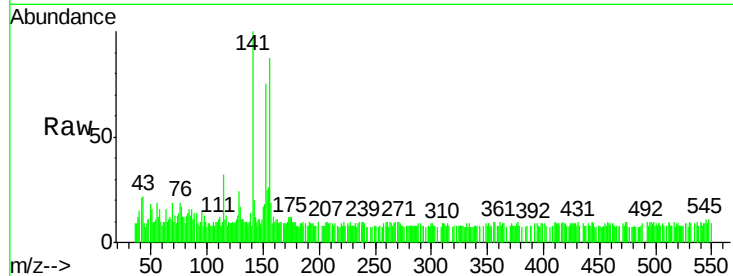




#53
2,4-Dinitrophenol
Concen: 6.66 ng
RT: 9.73 min Scan# 651
Delta R.T. -0.21 min
Lab File: BF085765.D
Acq: 25 Mar 2016 16:54

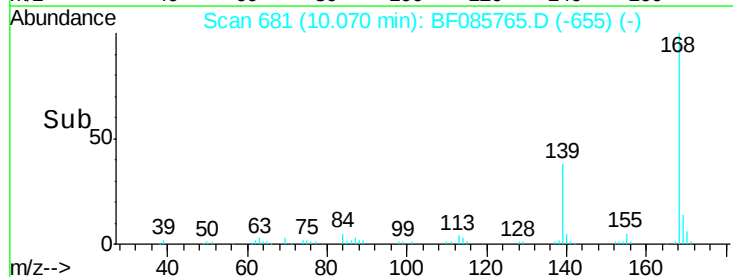
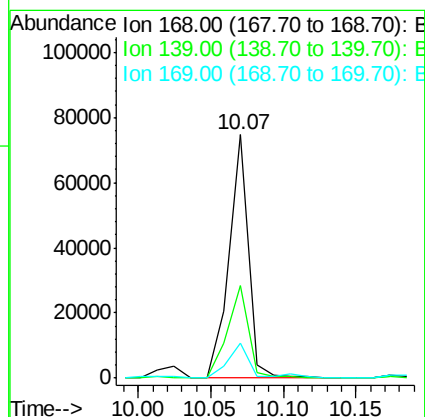
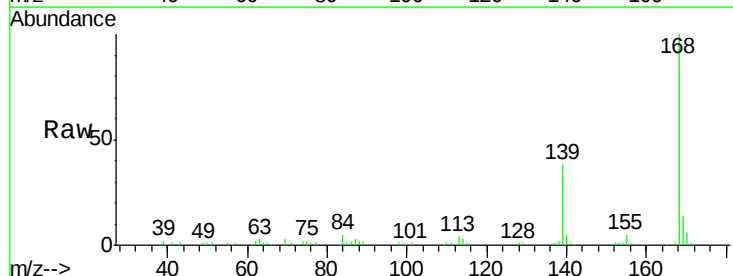
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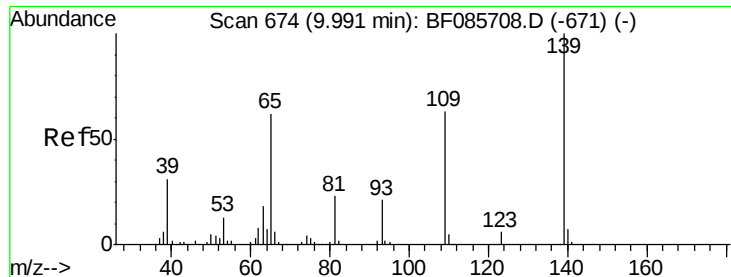
Tgt Ion:184 Resp: 939
Ion Ratio Lower Upper
184 100
63 95.4 69.5 104.3
154 112.9 58.3 87.5#



#54
Dibenzofuran
Concen: 5.18 ng
RT: 10.07 min Scan# 681
Delta R.T. -0.00 min
Lab File: BF085765.D
Acq: 25 Mar 2016 16:54

Tgt Ion:168 Resp: 69848
Ion Ratio Lower Upper
168 100
139 37.8 31.9 47.9
169 14.4 11.0 16.6





#55

4-Nitrophenol

Concen: 13.87 ng

RT: 10.07 min Scan# 681

Delta R.T. 0.08 min

Lab File: BF085765.D

Acq: 25 Mar 2016 16:54

Instrument :

BNA_F

ClientSampleId :

SB-04(3-5)DL

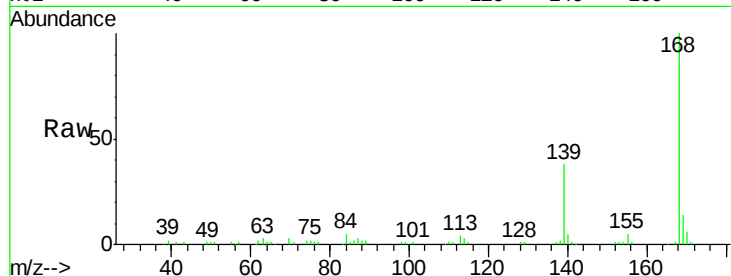
Tgt Ion:139 Resp: 28483

Ion Ratio Lower Upper

139 100

109 1.1 49.2 89.2#

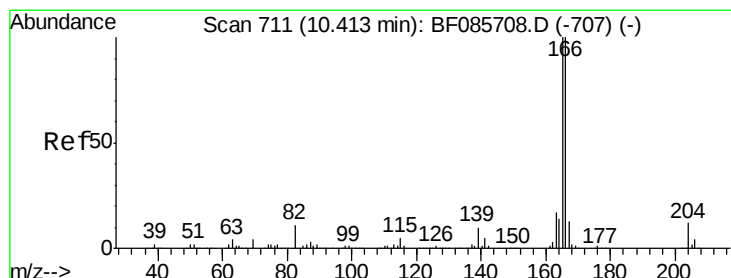
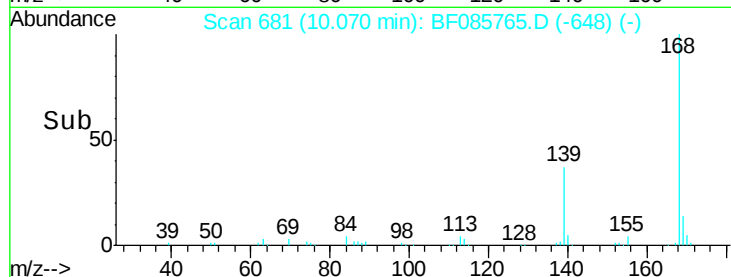
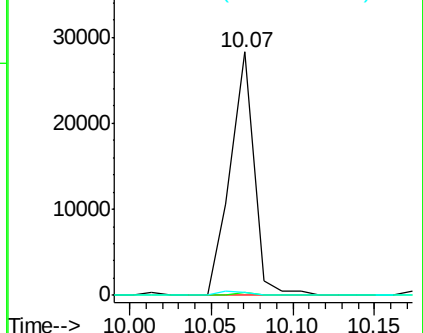
65 1.5 66.9 106.9#



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



#57

Fluorene

Concen: 7.49 ng

RT: 10.41 min Scan# 711

Delta R.T. -0.00 min

Lab File: BF085765.D

Acq: 25 Mar 2016 16:54

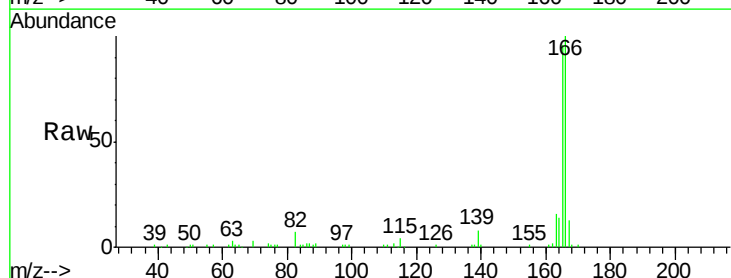
Tgt Ion:166 Resp: 83878

Ion Ratio Lower Upper

166 100

165 96.4 79.4 119.0

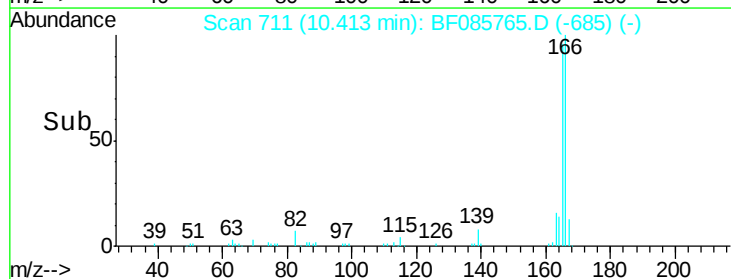
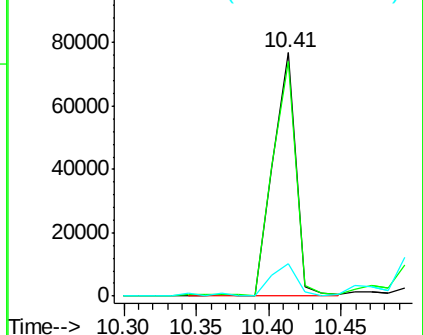
167 13.4 11.0 16.4

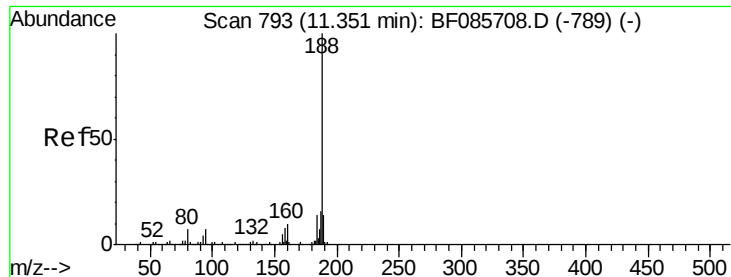


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.35 min Scan# 793

Delta R.T. -0.00 min

Lab File: BF085765.D

Acq: 25 Mar 2016 16:54

Instrument :

BNA_F

ClientSampleId :

SB-04(3-5)DL

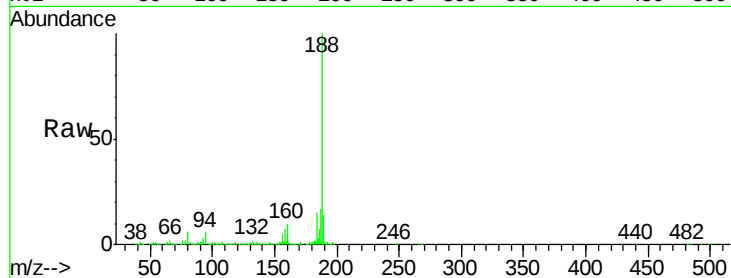
Tgt Ion:188 Resp: 261737

Ion Ratio Lower Upper

188 100

94 6.2 5.4 8.0

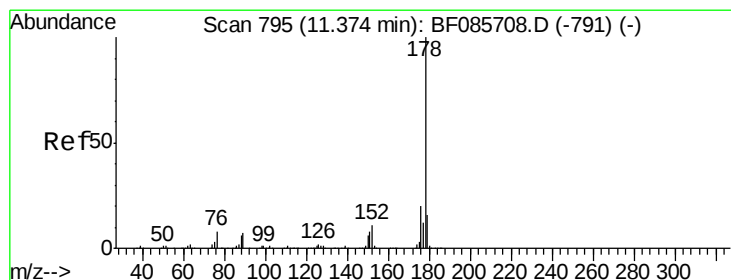
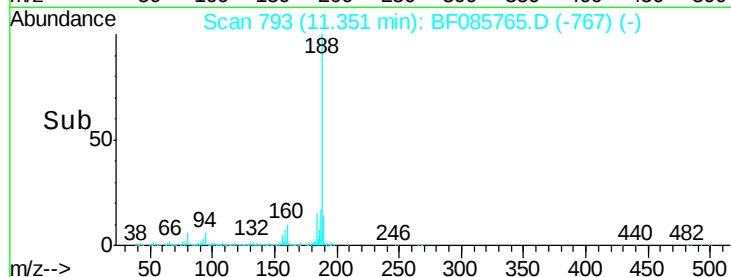
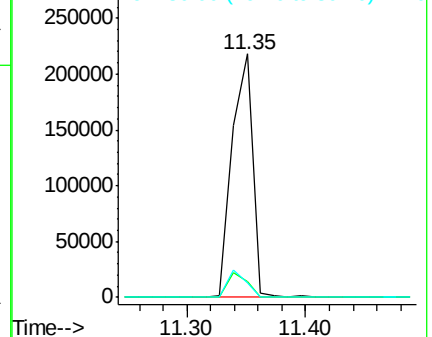
80 6.2 5.5 8.3



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: 41.79 ng

RT: 11.37 min Scan# 795

Delta R.T. -0.00 min

Lab File: BF085765.D

Acq: 25 Mar 2016 16:54

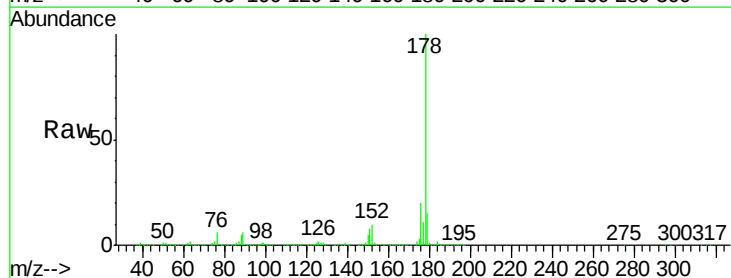
Tgt Ion:178 Resp: 561579

Ion Ratio Lower Upper

178 100

176 19.9 16.3 24.5

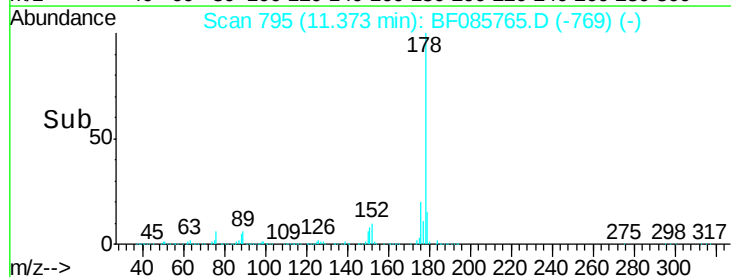
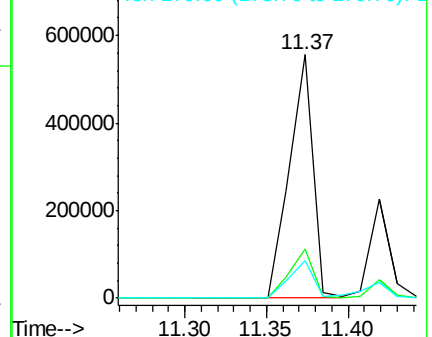
179 15.4 12.6 18.8

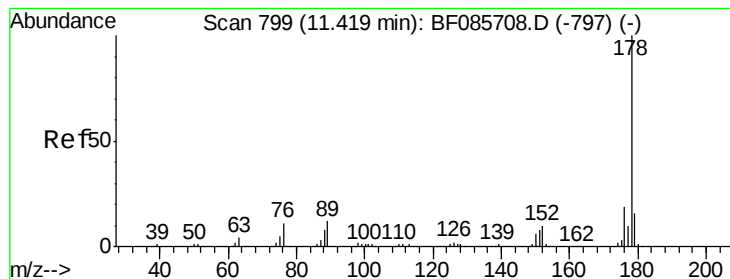


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#71

Anthracene

Concen: 13.61 ng

RT: 11.42 min Scan# 799

Delta R.T. -0.00 min

Lab File: BF085765.D

Acq: 25 Mar 2016 16:54

Instrument :

BNA_F

ClientSampleId :

SB-04(3-5)DL

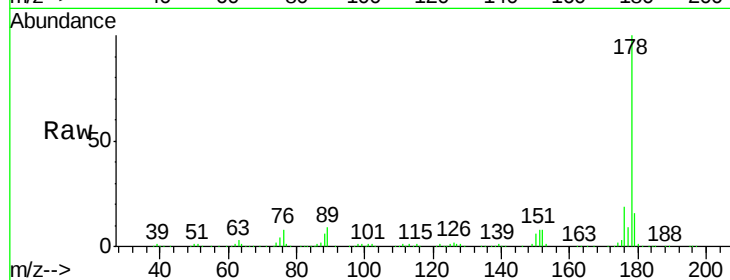
Tgt Ion:178 Resp: 192079

Ion Ratio Lower Upper

178 100

176 18.7 15.9 23.9

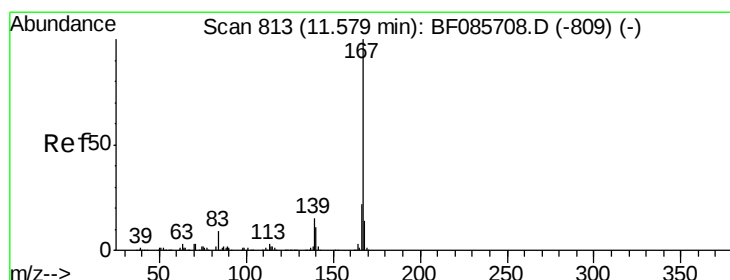
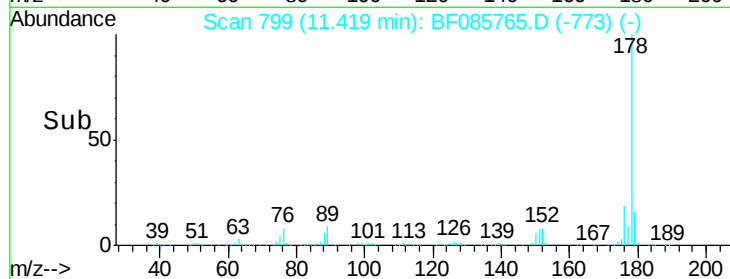
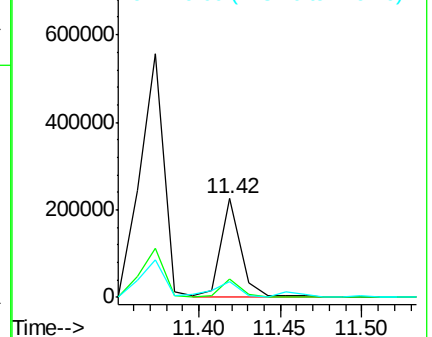
179 15.7 13.0 19.4



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



#72

Carbazole

Concen: 5.06 ng

RT: 11.58 min Scan# 813

Delta R.T. -0.00 min

Lab File: BF085765.D

Acq: 25 Mar 2016 16:54

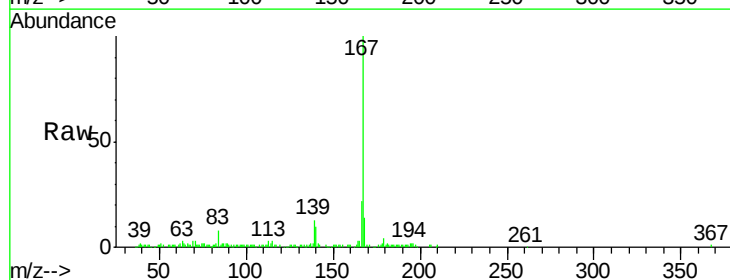
Tgt Ion:167 Resp: 59983

Ion Ratio Lower Upper

167 100

166 21.8 17.8 26.8

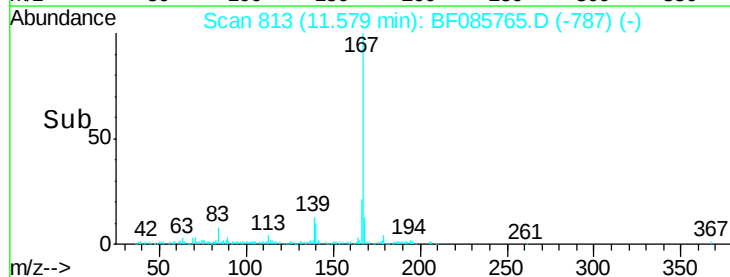
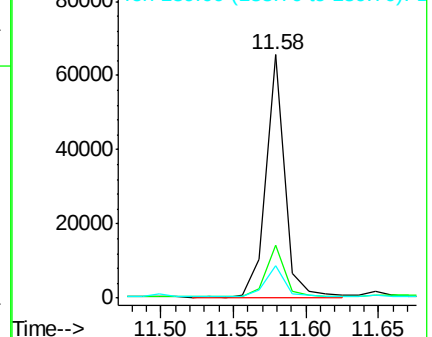
139 13.3 11.6 17.4

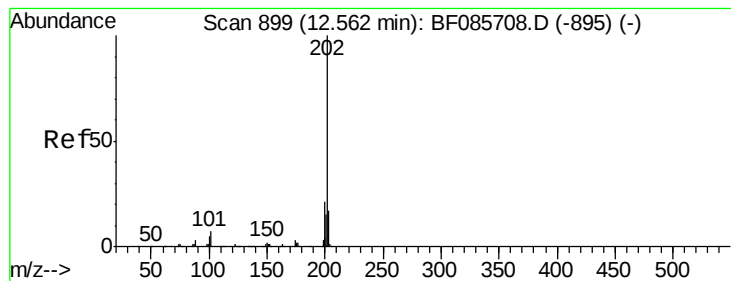


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#74

Fluoranthene

Concen: 24.57 ng

RT: 12.55 min Scan# 898

Delta R.T. -0.01 min

Lab File: BF085765.D

Acq: 25 Mar 2016 16:54

Instrument :

BNA_F

ClientSampleId :

SB-04(3-5)DL

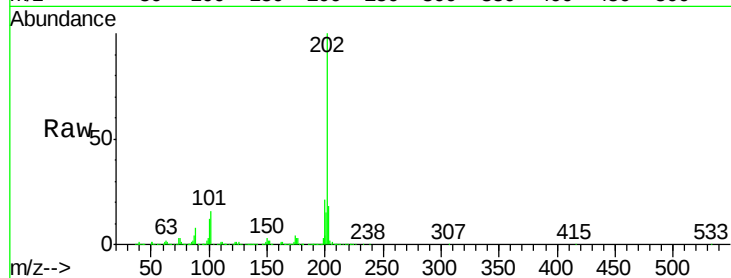
Tgt Ion:202 Resp: 351039

Ion Ratio Lower Upper

202 100

101 16.5 0.0 36.6

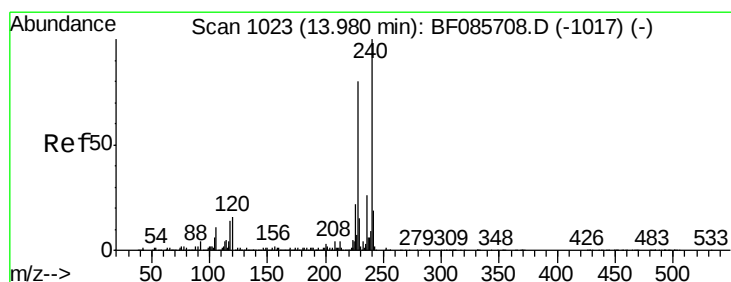
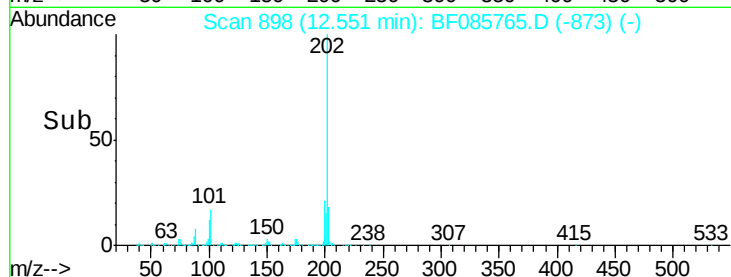
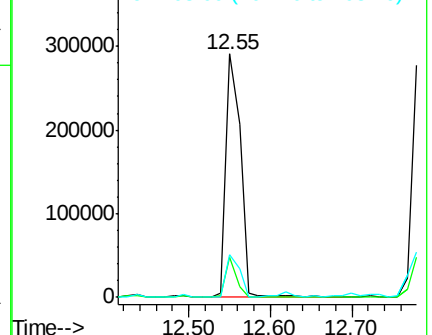
203 17.8 0.0 38.1



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: 13.98 min Scan# 1023

Delta R.T. -0.00 min

Lab File: BF085765.D

Acq: 25 Mar 2016 16:54

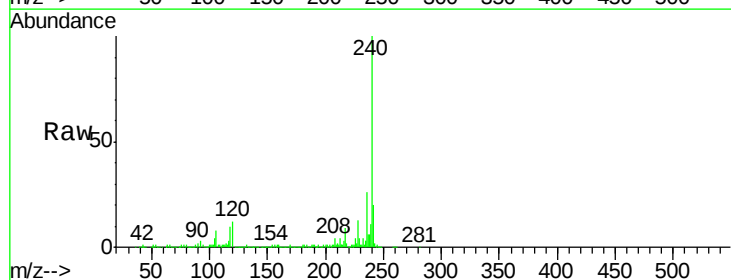
Tgt Ion:240 Resp: 211842

Ion Ratio Lower Upper

240 100

120 11.6 13.8 20.8#

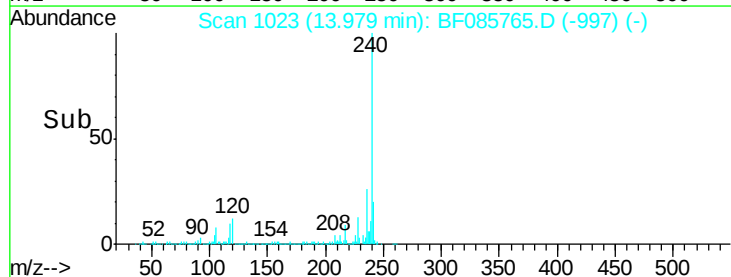
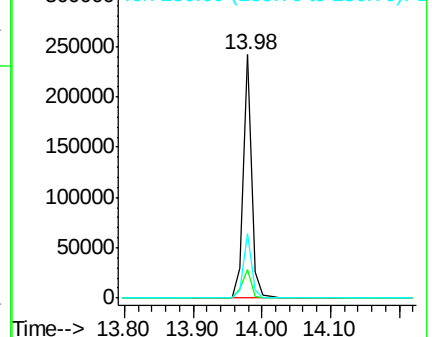
236 26.3 20.6 30.8

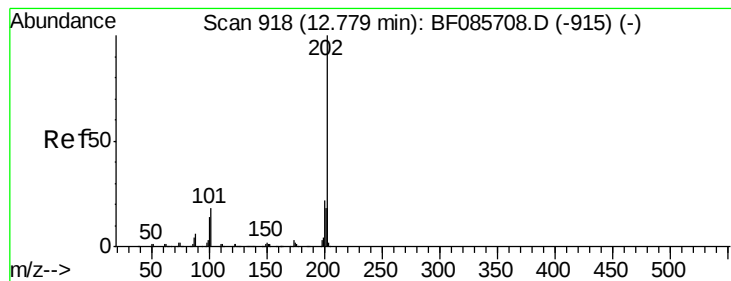


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pyrene

Concen: 18.47 ng

RT: 12.78 min Scan# 918

Delta R.T. -0.00 min

Lab File: BF085765.D

Acq: 25 Mar 2016 16:54

Instrument :

BNA_F

ClientSampleId :

SB-04(3-5)DL

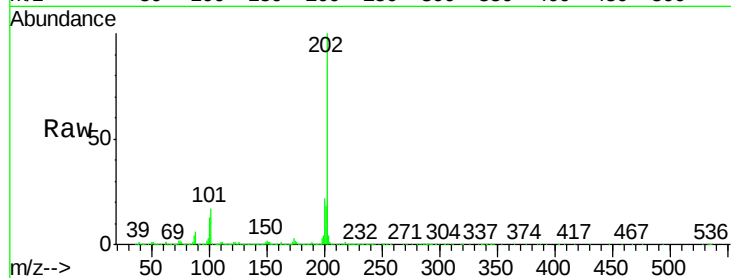
Tgt Ion:202 Resp: 321547

Ion Ratio Lower Upper

202 100

200 21.6 17.6 26.4

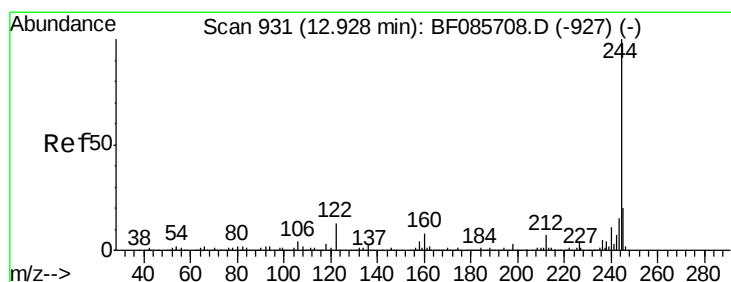
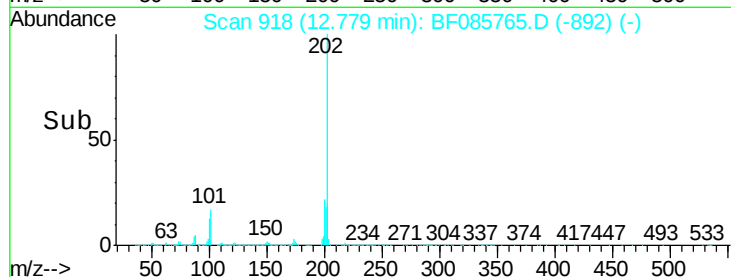
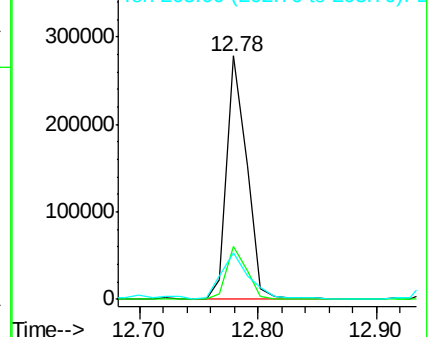
203 19.3 14.0 21.0



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: 5.94 ng

RT: 12.93 min Scan# 931

Delta R.T. -0.00 min

Lab File: BF085765.D

Acq: 25 Mar 2016 16:54

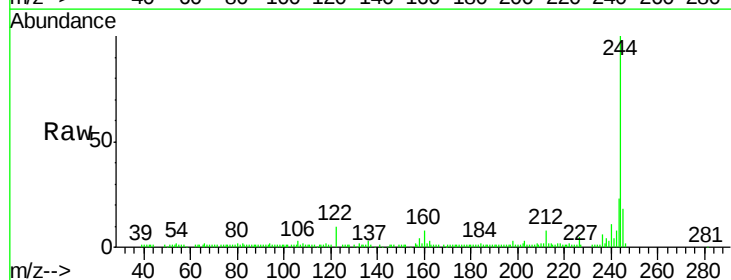
Tgt Ion:244 Resp: 61206

Ion Ratio Lower Upper

244 100

212 7.7 6.1 9.1

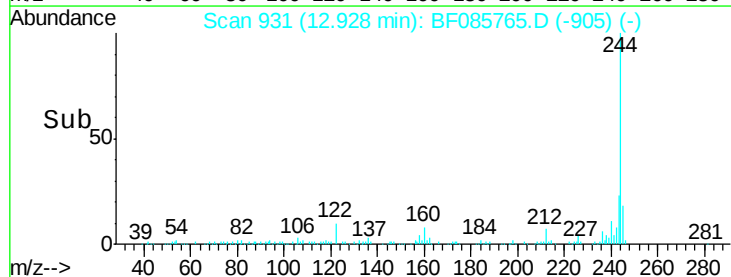
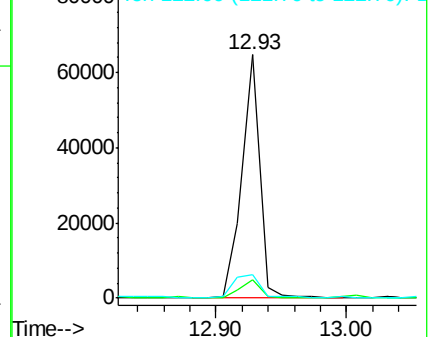
122 9.7 10.2 15.4#

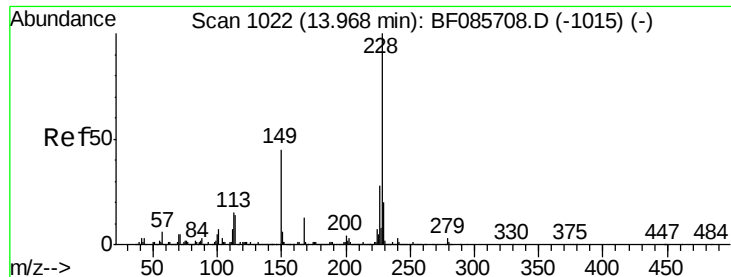


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 13.02 ng

RT: 13.97 min Scan# 1022

Delta R.T. -0.00 min

Lab File: BF085765.D

Acq: 25 Mar 2016 16:54

Instrument :

BNA_F

ClientSampleId :

SB-04(3-5)DL

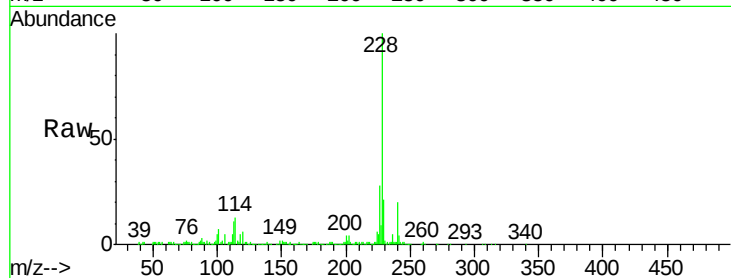
Tgt Ion:228 Resp: 157288

Ion Ratio Lower Upper

228 100

226 28.3 22.1 33.1

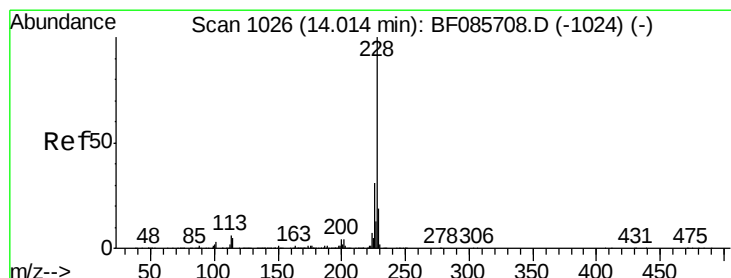
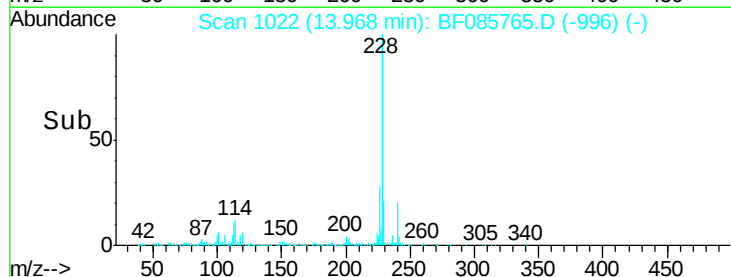
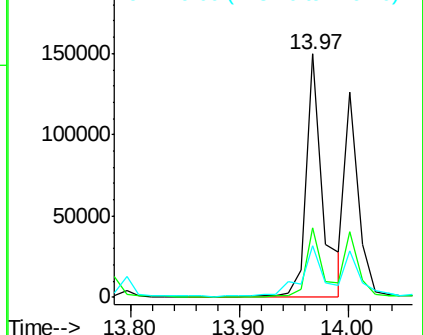
229 21.3 16.2 24.4



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: 9.19 ng

RT: 14.00 min Scan# 1025

Delta R.T. -0.01 min

Lab File: BF085765.D

Acq: 25 Mar 2016 16:54

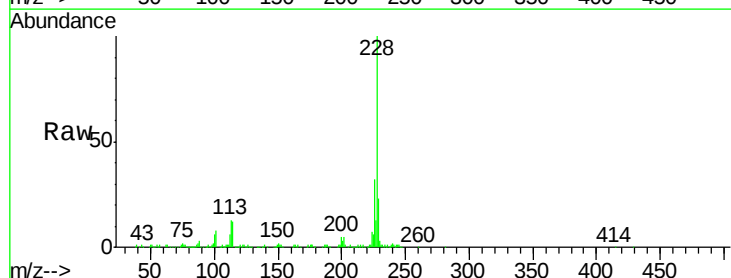
Tgt Ion:228 Resp: 111826

Ion Ratio Lower Upper

228 100

226 32.0 25.0 37.6

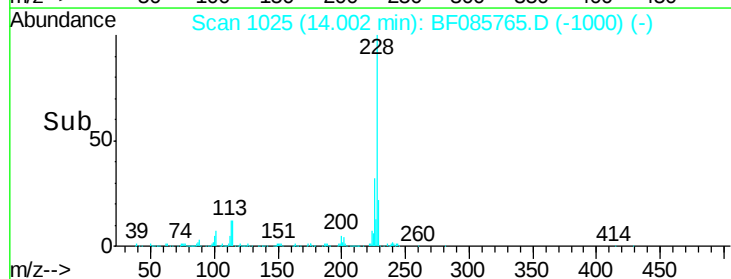
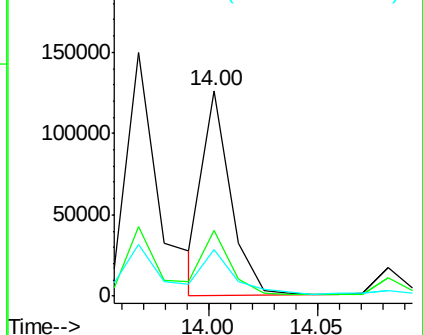
229 22.9 15.7 23.5

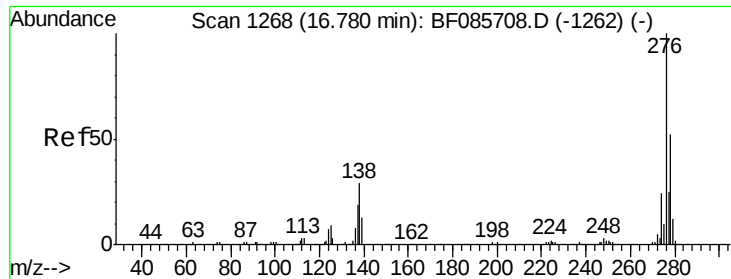


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

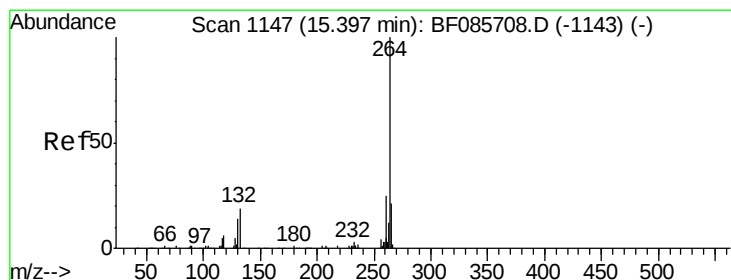
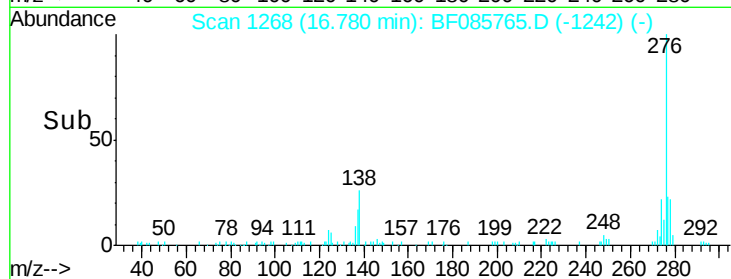
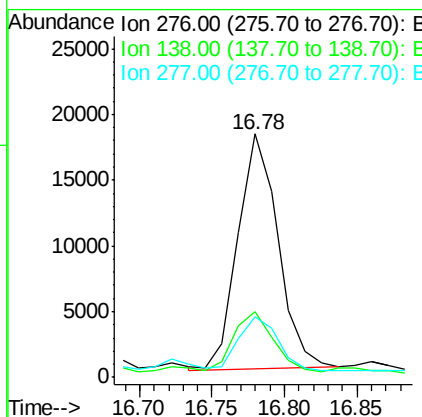
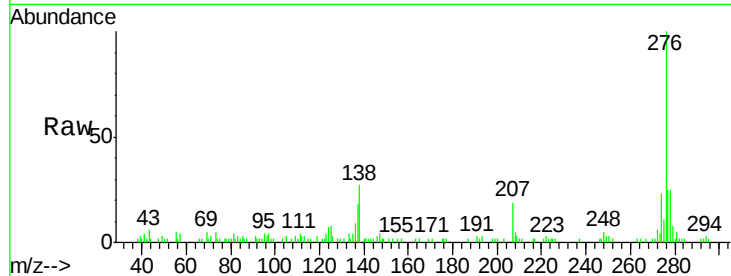




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 3.67 ng
 RT: 16.78 min Scan# 1268
 Delta R.T. -0.00 min
 Lab File: BF085765.D
 Acq: 25 Mar 2016 16:54

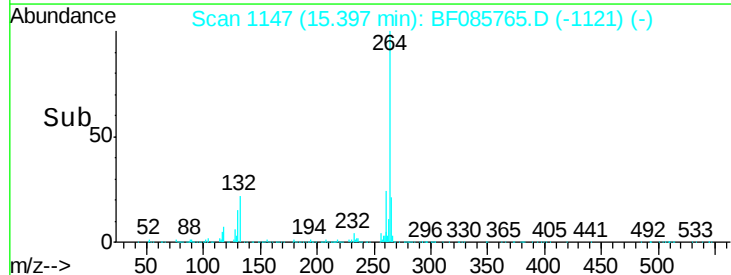
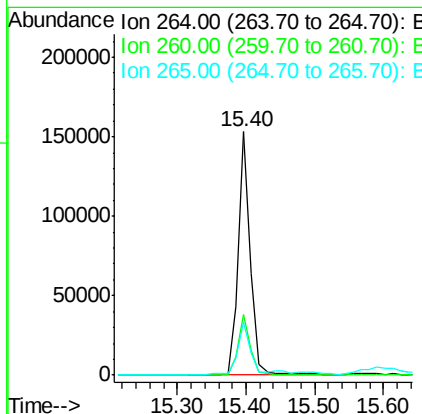
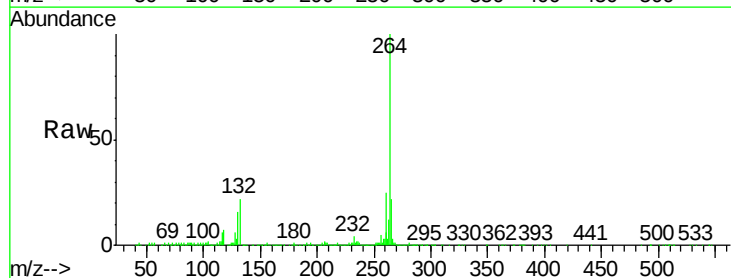
Instrument :
 BNA_F
 ClientSampleId :
 SB-04(3-5)DL

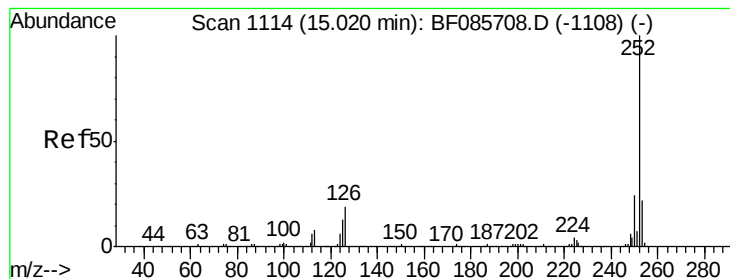
Tgt Ion	Ratio	Lower	Upper
276	100		
138	30.5	24.2	36.4
277	23.2	20.0	30.0



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.40 min Scan# 1147
 Delta R.T. -0.00 min
 Lab File: BF085765.D
 Acq: 25 Mar 2016 16:54

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.7	19.4	29.2
265	21.5	17.2	25.8





#87

Benzo(b)fluoranthene

Concen: 13.63 ng

RT: 15.00 min Scan# 1112

Delta R.T. -0.00 min

Lab File: BF085765.D

Acq: 25 Mar 2016 16:54

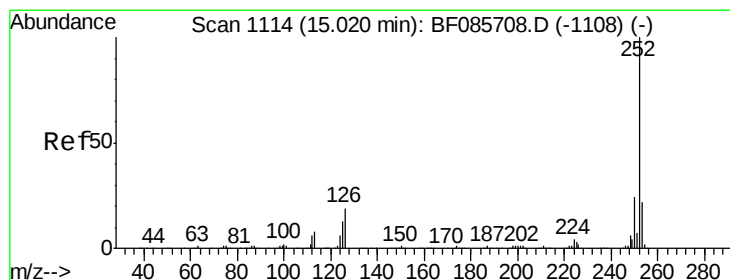
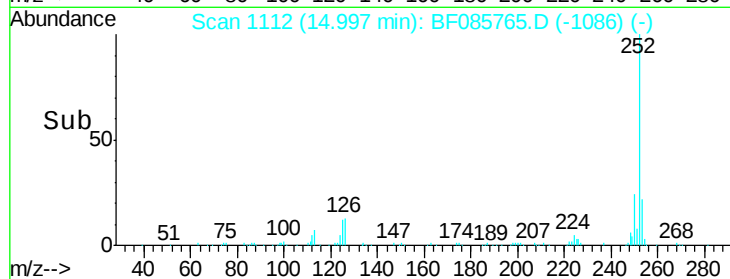
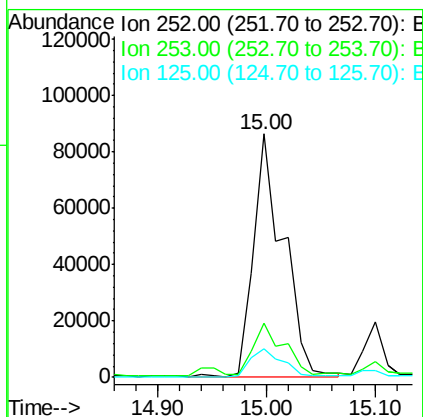
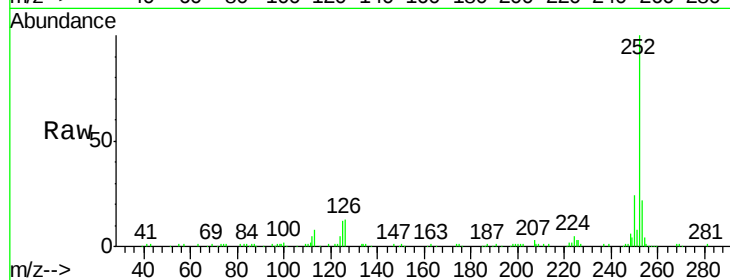
Instrument :

BNA_F

ClientSampleId :

SB-04(3-5)DL

Tgt Ion:	252	Resp:	163773
Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.6	26.4
125	11.9	10.3	15.5



#88

Benzo(k)fluoranthene

Concen: 15.11 ng

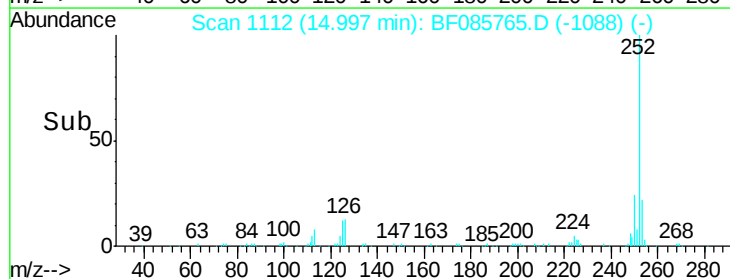
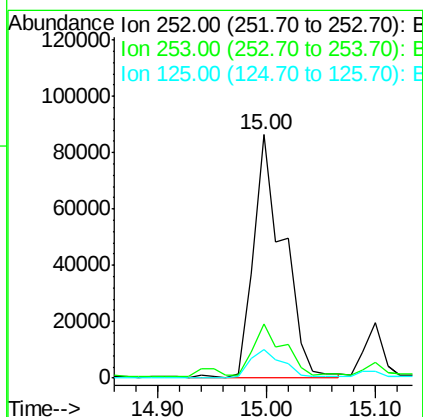
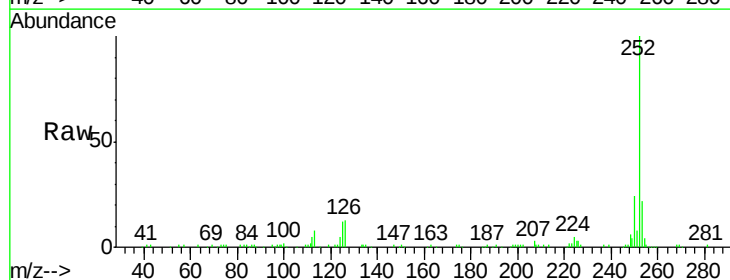
RT: 15.00 min Scan# 1112

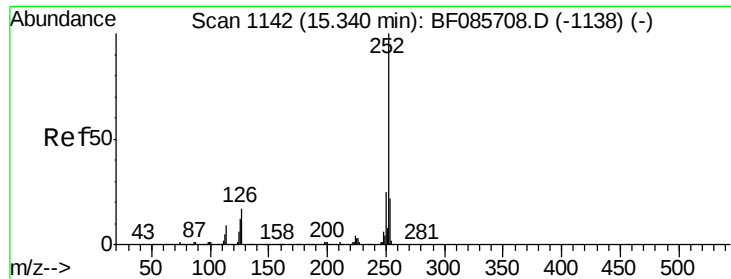
Delta R.T. -0.02 min

Lab File: BF085765.D

Acq: 25 Mar 2016 16:54

Tgt Ion:	252	Resp:	163773
Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.8	26.6
125	11.9	7.7	11.5#





#89

Benzo(a)pyrene

Concen: 8.82 ng

RT: 15.34 min Scan# 1142

Delta R.T. -0.00 min

Lab File: BF085765.D

Acq: 25 Mar 2016 16:54

Instrument :

BNA_F

ClientSampleId :

SB-04(3-5)DL

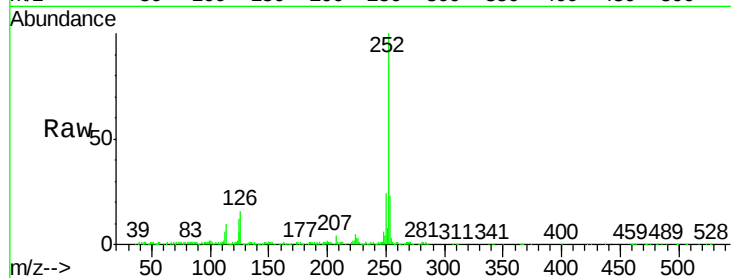
Tgt Ion:252 Resp: 94116

Ion Ratio Lower Upper

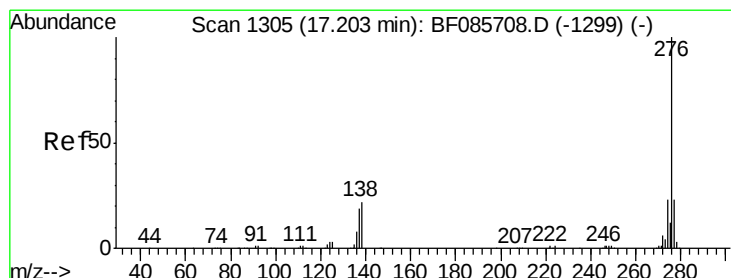
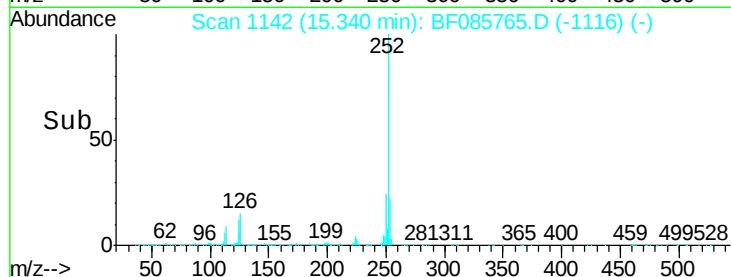
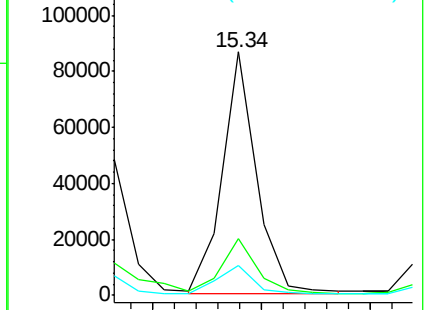
252 100

253 23.2 17.4 26.0

125 12.3 10.3 15.5



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



#91

Benzo(g,h,i)perylene

Concen: 3.51 ng

RT: 17.20 min Scan# 1305

Delta R.T. -0.00 min

Lab File: BF085765.D

Acq: 25 Mar 2016 16:54

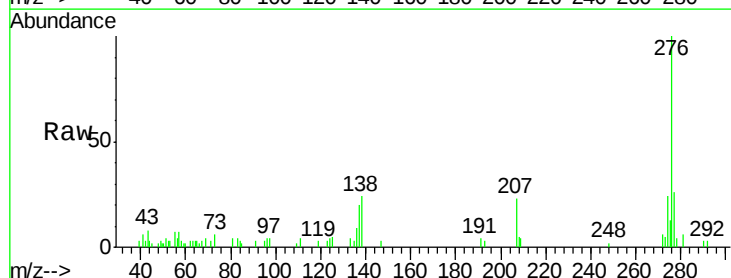
Tgt Ion:276 Resp: 35239

Ion Ratio Lower Upper

276 100

277 26.2 18.8 28.2

138 24.4 22.6 34.0



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

