

Data Path : Z:\HPCHEM1\BNA F\DATA\BF072715\
 Data File : BF080695.D
 Acq On : 28 Jul 2015 3:28
 Operator : TP/UM
 Sample : G3084-03MS
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 DUMBO-EP-4

Quant Time: Jul 28 09:24:32 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072715.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jul 28 05:06:30 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.92	152	30306	20.00	ng	0.00
21) Naphthalene-d8	8.21	136	100958	20.00	ng	0.00
38) Acenaphthene-d10	9.96	164	36907	20.00	ng	0.00
63) Phenanthrene-d10	11.45	188	49466	20.00	ng	0.00
75) Chrysene-d12	14.20	240	23465	20.00	ng	-0.05
86) Perylene-d12	15.84	264	11159	20.00	ng	-0.08

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.52	112	302774	159.12	ng	0.01
7) Phenol-d6	6.53	99	325412	158.95	ng	0.00
23) Nitrobenzene-d5	7.48	82	219249	111.58	ng	0.00
41) 2,4,6-Tribromophenol	10.75	330	44145	136.66	ng	0.00
44) 2-Fluorobiphenyl	9.29	172	320048	109.26	ng	0.00
78) Terphenyl-d14	13.06	244	158596	115.78	ng	-0.01

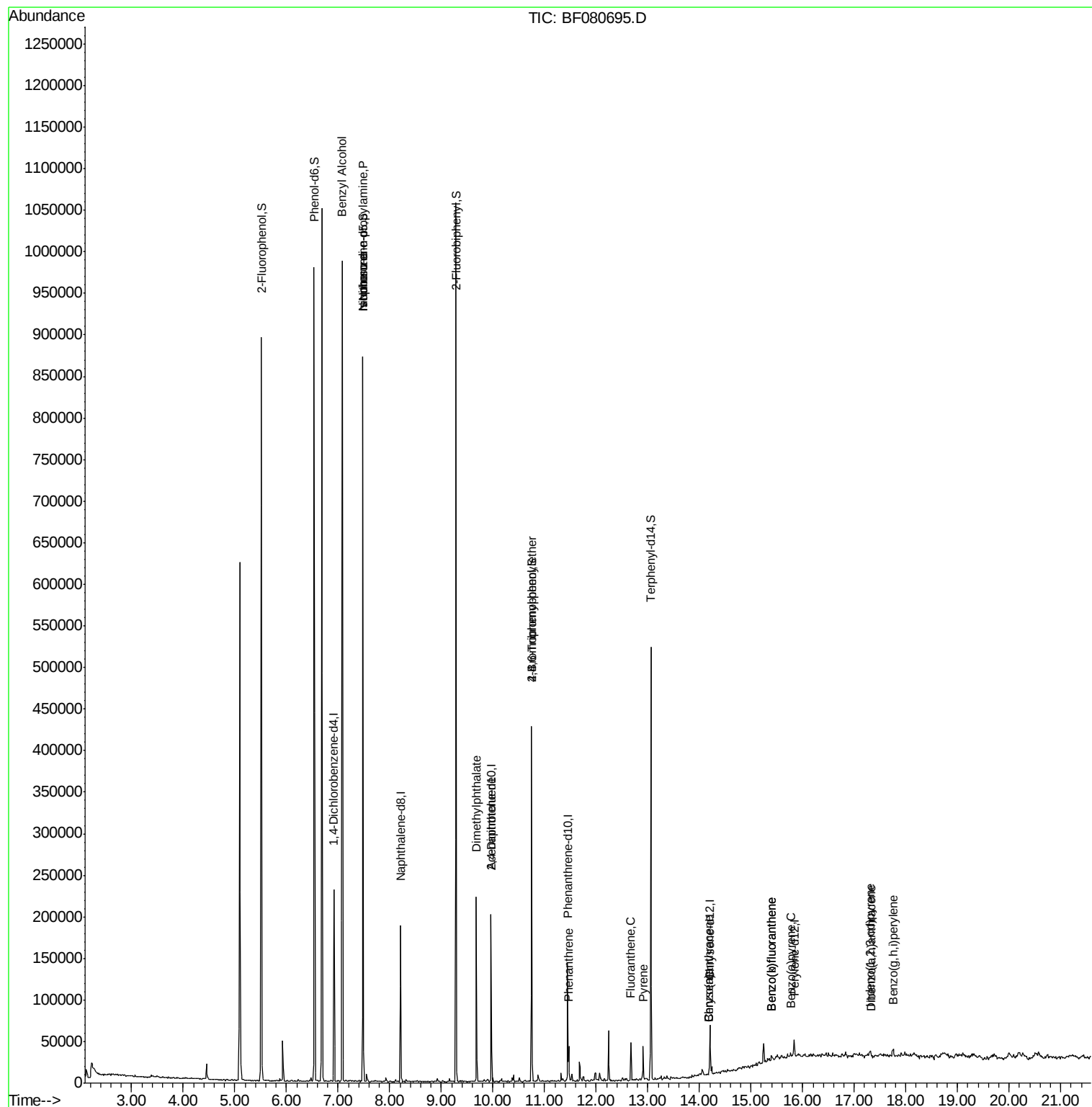
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
15) Benzyl Alcohol	7.08	79	4216	2.52	ng	# 53
19) n-Nitroso-di-n-propylamine	7.48	70	29792	24.73	ng	# 70
25) Isophorone	7.48	82	203668	66.59	ng	# 63
49) Dimethylphthalate	9.68	163	78275	32.62	ng	100
56) 2,4-Dinitrotoluene	9.96	165	5010	9.25	ng	# 33
66) 4-Bromophenyl-phenylether	10.75	248	3175	6.01	ng	# 1
70) Phenanthrene	11.47	178	16086	5.70	ng	97
74) Fluoranthene	12.67	202	19177	8.66	ng	95
77) Pyrene	12.91	202	17357	8.84	ng	98
80) Benzo(a)anthracene	14.19	228	5878	4.32	ng	# 90
82) Chrysene	14.19	228	5878	4.34	ng	94
85) Indeno(1,2,3-cd)pyrene	17.31	276	5444	9.52	ng	# 90
87) Benzo(b)fluoranthene	15.40	252	5179	6.37	ng	# 93
88) Benzo(k)fluoranthene	15.40	252	5179	6.95	ng	# 93
89) Benzo(a)pyrene	15.77	252	2719	4.38	ng	# 77
90) Dibenzo(a,h)anthracene	17.33	278	1196	2.80	ng	# 59
91) Benzo(g,h,i)perylene	17.76	276	8104	19.58	ng	# 84

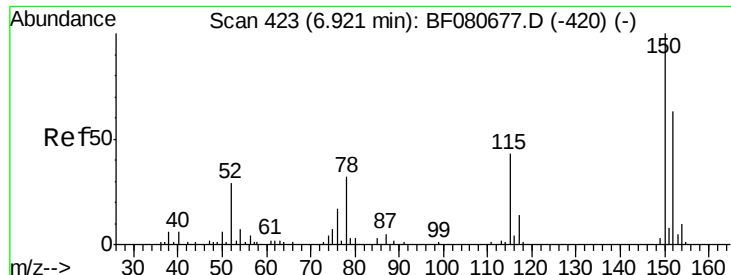
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.92 min Scan# 423

Delta R.T. 0.00 min

Lab File: BF080695.D

Acq: 28 Jul 2015 3:28

Instrument :

BNA_F

ClientSampleId :

DUMBO-EP-4

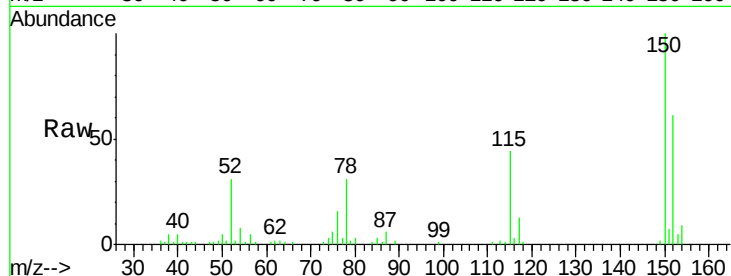
Tot Ion:152 Resp: 30306

Ion Ratio Lower Upper

152 100

150 164.4 127.7 191.5

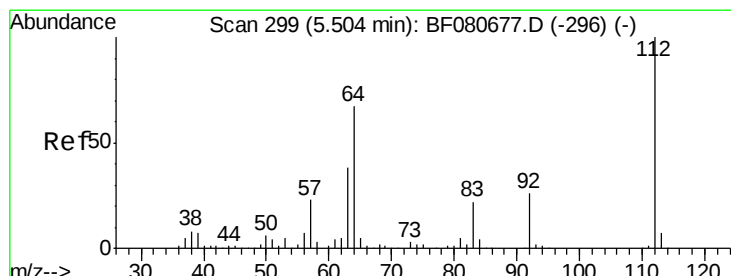
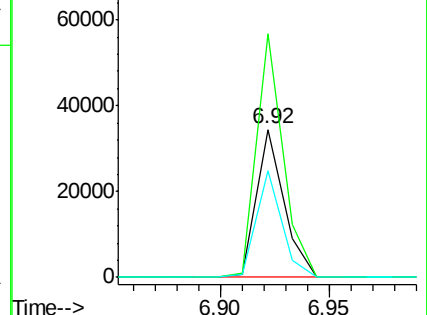
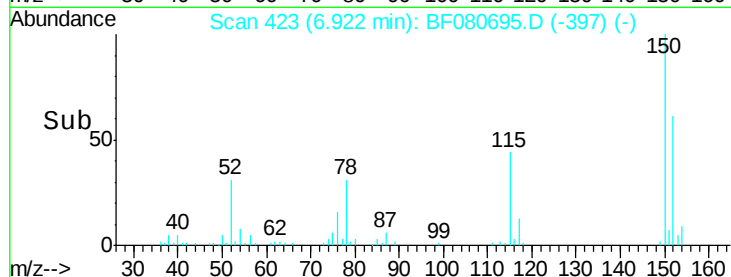
115 71.6 54.2 81.4



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: 159.12 ng

RT: 5.52 min Scan# 300

Delta R.T. 0.01 min

Lab File: BF080695.D

Acq: 28 Jul 2015 3:28

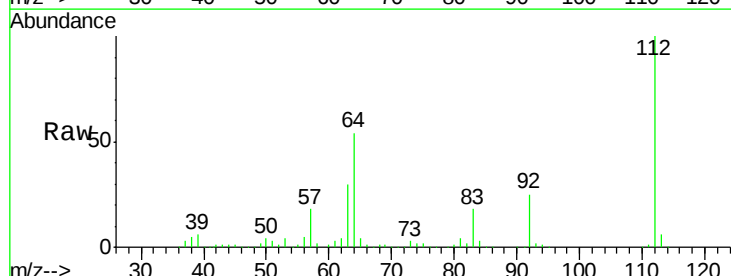
Tgt Ion:112 Resp: 302774

Ion Ratio Lower Upper

112 100

64 54.0 53.2 79.8

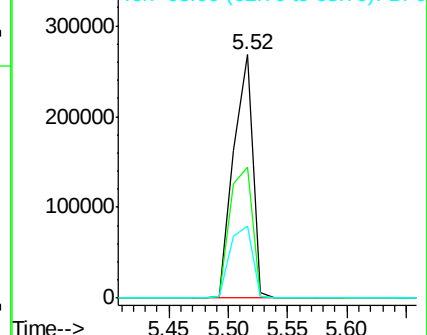
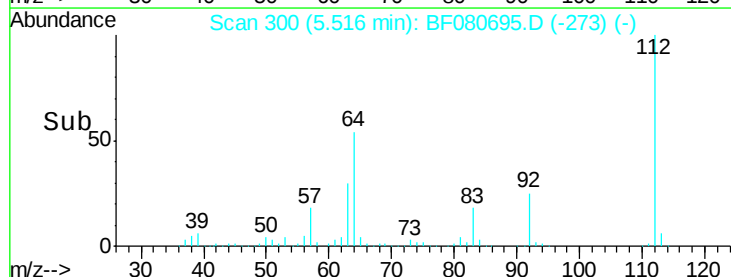
63 29.6 30.4 45.6#

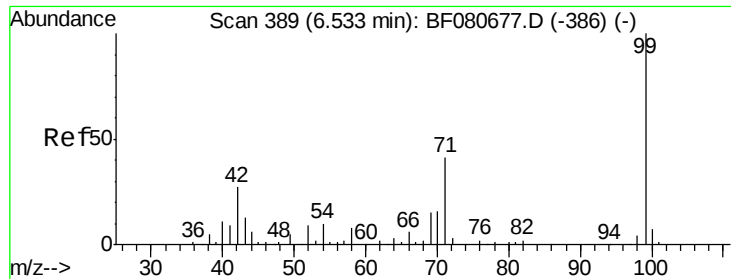


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 158.95 ng

RT: 6.53 min Scan# 389

Delta R.T. 0.00 min

Lab File: BF080695.D

Acq: 28 Jul 2015 3:28

Instrument :

BNA_F

ClientSampleId :

DUMBO-EP-4

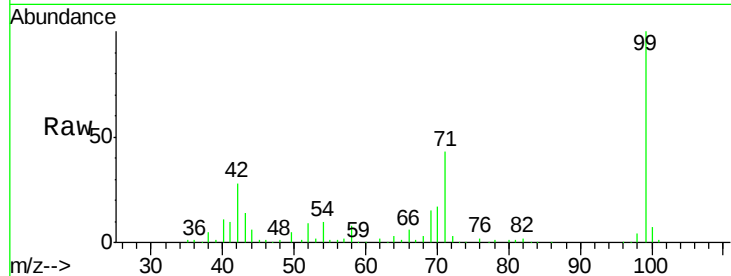
Tot Ion: 99 Resp: 325412

Ion Ratio Lower Upper

99 100

42 28.1 21.8 32.8

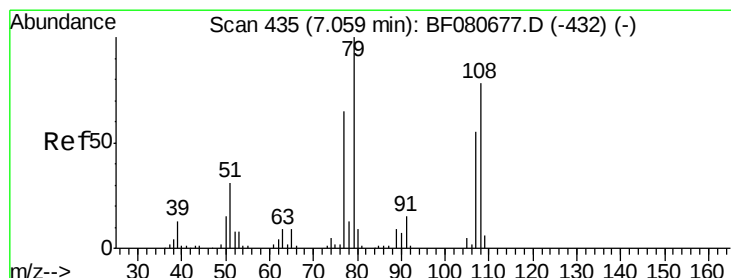
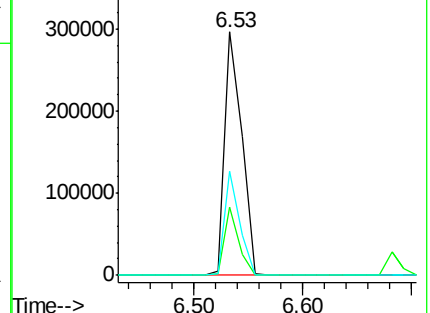
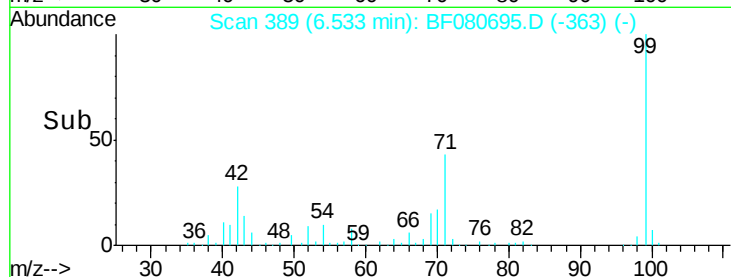
71 42.8 32.9 49.3



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: 2.52 ng

RT: 7.08 min Scan# 437

Delta R.T. 0.02 min

Lab File: BF080695.D

Acq: 28 Jul 2015 3:28

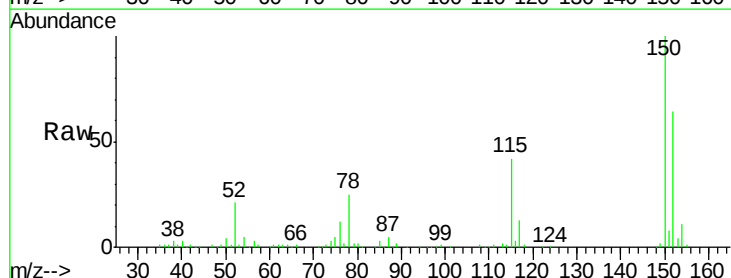
Tgt Ion: 79 Resp: 4216

Ion Ratio Lower Upper

79 100

108 47.0 62.7 94.1#

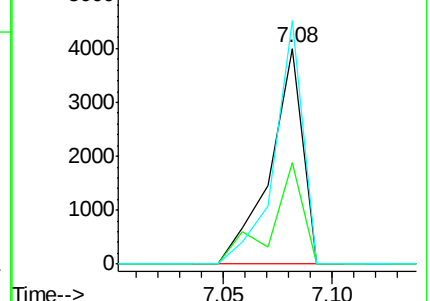
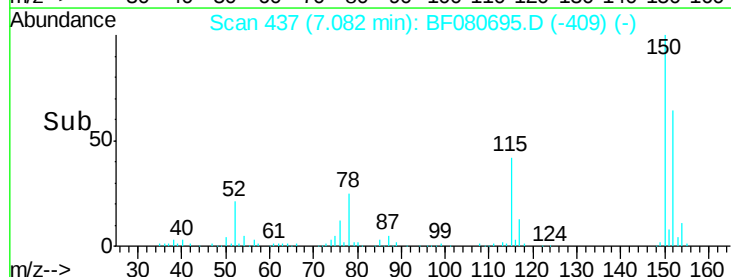
77 113.0 51.8 77.8#

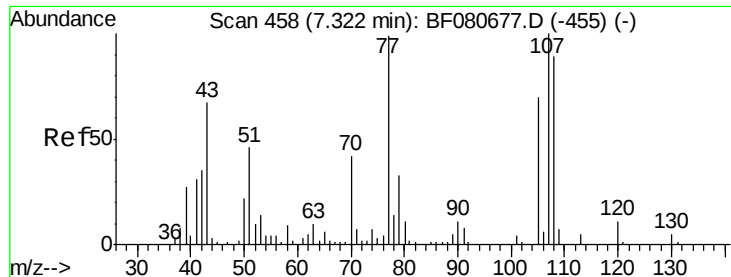


Abundance Ion 79.00 (78.70 to 79.70): BF0

Ion 108.00 (107.70 to 108.70): BF0

Ion 77.00 (76.70 to 77.70): BF0





#19

n-Nitroso-di-n-propylamine

Concen: 24.73 ng

RT: 7.48 min Scan# 472

Delta R.T. 0.16 min

Lab File: BF080695.D

Acq: 28 Jul 2015 3:28

Instrument :

BNA_F

ClientSampleId :

DUMBO-EP-4

Tot Ion: 70 Resp: 29792

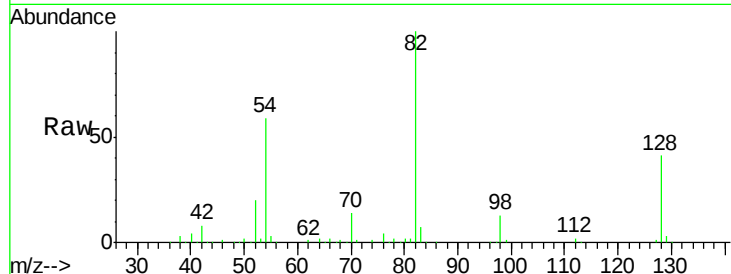
Ion Ratio Lower Upper

70 100

42 56.3 67.4 101.2#

101 0.0 7.3 10.9#

130 1.7 10.5 15.7#

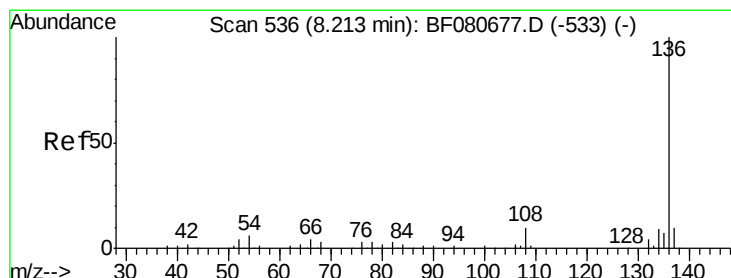
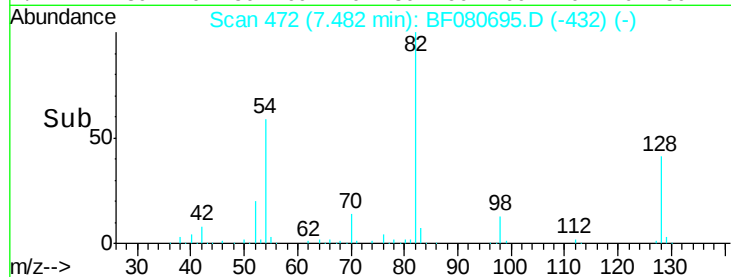
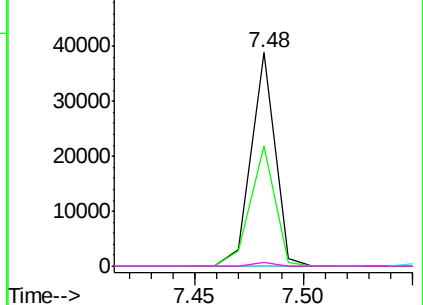


Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): E

Ion 130.00 (129.70 to 130.70): E



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.21 min Scan# 536

Delta R.T. 0.00 min

Lab File: BF080695.D

Acq: 28 Jul 2015 3:28

Tgt Ion:136 Resp: 100958

Ion Ratio Lower Upper

136 100

137 9.5 8.2 12.2

54 5.7 5.0 7.4

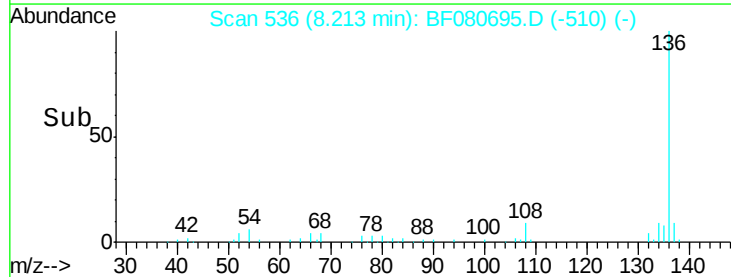
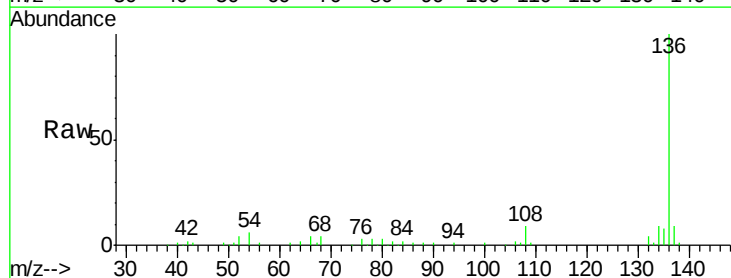
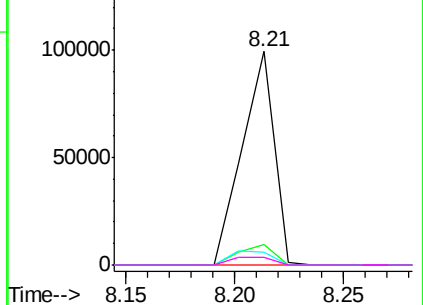
68 3.8 2.7 4.1

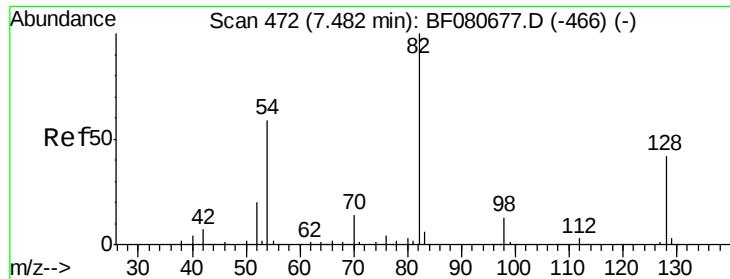
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0

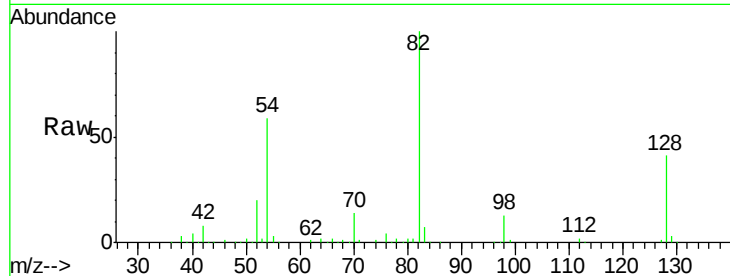




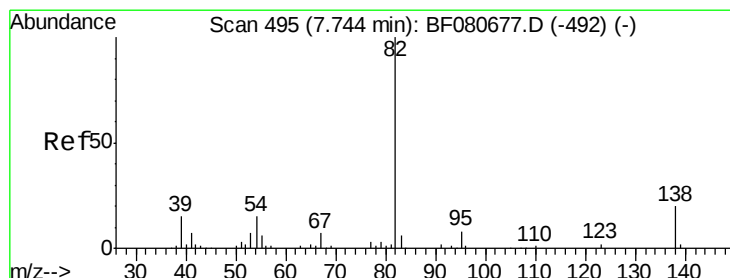
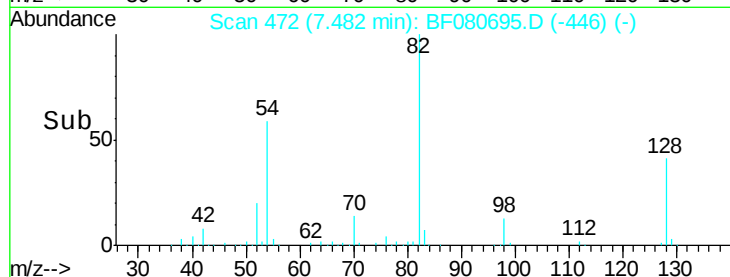
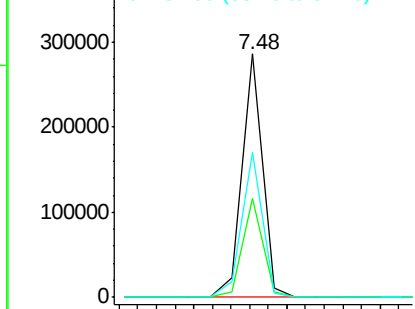
#23
 Nitrobenzene-d5
 Concen: 111.58 ng
 RT: 7.48 min Scan# 472
 Delta R.T. 0.00 min
 Lab File: BF080695.D
 Acq: 28 Jul 2015 3:28

Instrument :
 BNA_F
 ClientSampleId :
 DUMBO-EP-4

Tot Ion	82	Resp	219249
Ion Ratio	Lower	Upper	
82	100		
128	40.9	33.7	50.5
54	59.5	47.3	70.9

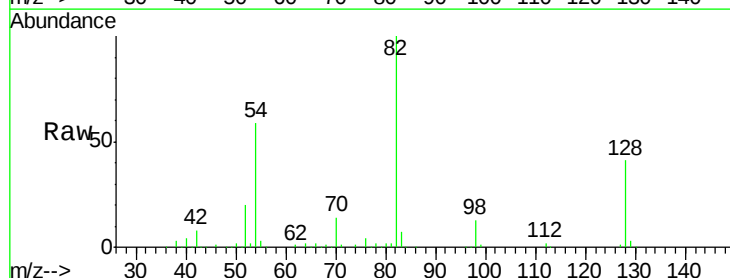


Abundance Ion 82.00 (81.70 to 82.70): BF0
 Ion 128.00 (127.70 to 128.70): BF0
 Ion 54.00 (53.70 to 54.70): BF0

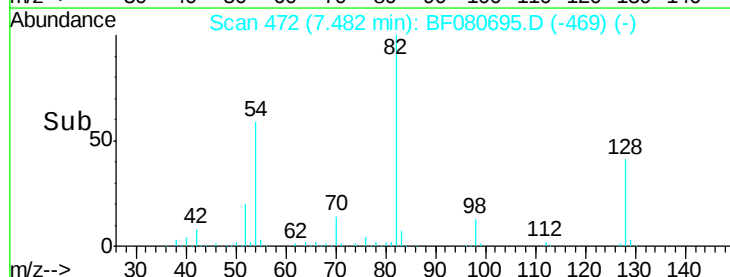
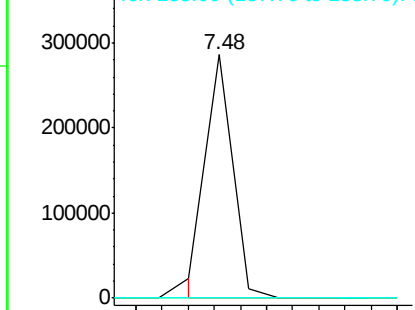


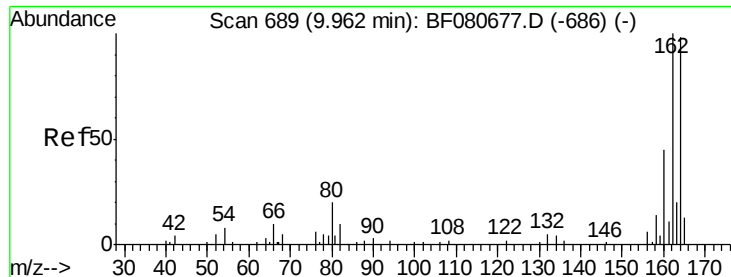
#25
 Isophorone
 Concen: 66.59 ng
 RT: 7.48 min Scan# 472
 Delta R.T. -0.26 min
 Lab File: BF080695.D
 Acq: 28 Jul 2015 3:28

Tgt Ion	82	Resp	203668
Ion Ratio	Lower	Upper	
82	100		
95	0.0	6.2	9.2#
138	0.0	15.8	23.6#



Abundance Ion 82.00 (81.70 to 82.70): BF0
 Ion 95.00 (94.70 to 95.70): BF0
 Ion 138.00 (137.70 to 138.70): BF0





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.96 min Scan# 689

Delta R.T. 0.00 min

Lab File: BF080695.D

Acq: 28 Jul 2015 3:28

Instrument :

BNA_F

ClientSampleId :

DUMBO-EP-4

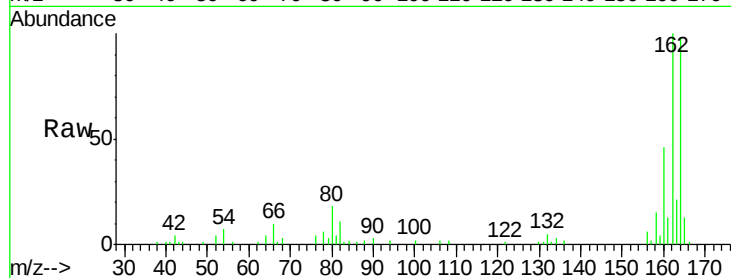
Tot Ion:164 Resp: 36907

Ion Ratio Lower Upper

164 100

162 102.2 82.0 123.0

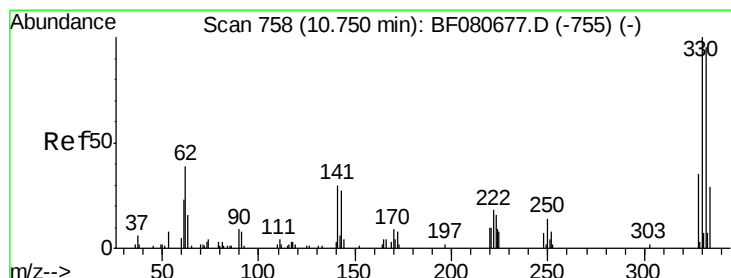
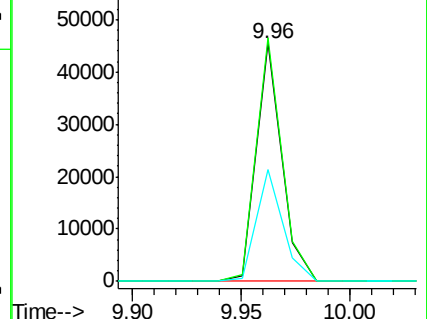
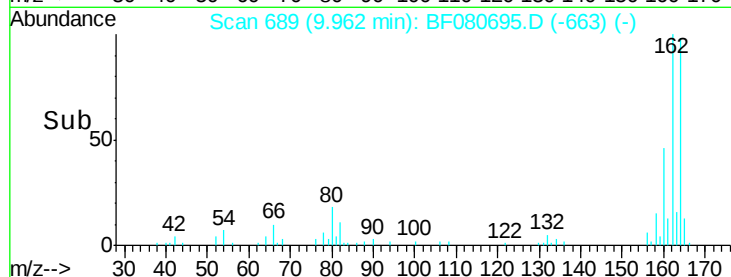
160 47.0 36.7 55.1



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: 136.66 ng

RT: 10.75 min Scan# 758

Delta R.T. 0.00 min

Lab File: BF080695.D

Acq: 28 Jul 2015 3:28

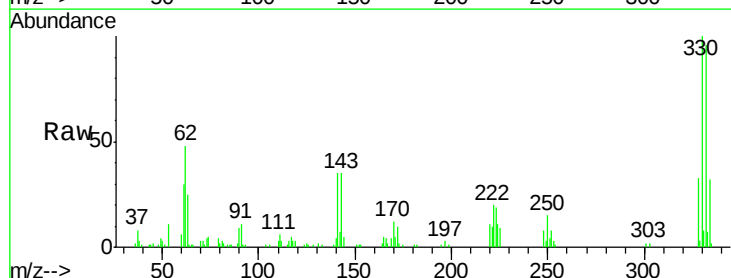
Tgt Ion:330 Resp: 44145

Ion Ratio Lower Upper

330 100

332 95.6 76.9 115.3

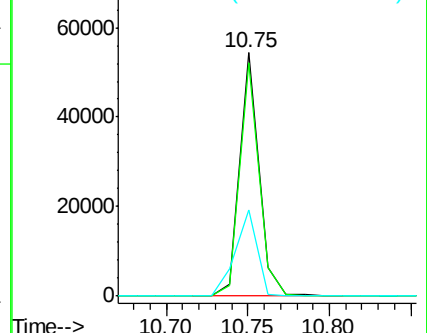
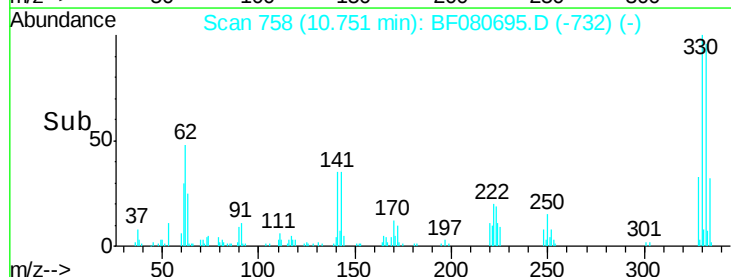
141 40.2 30.6 45.8

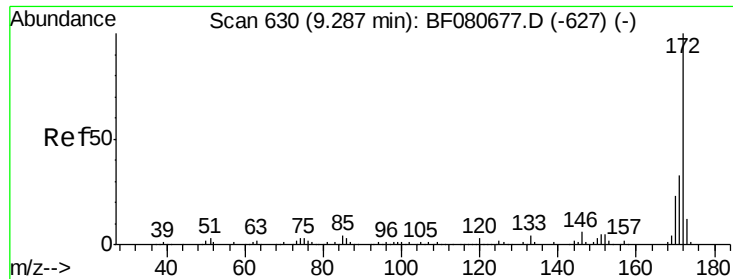


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

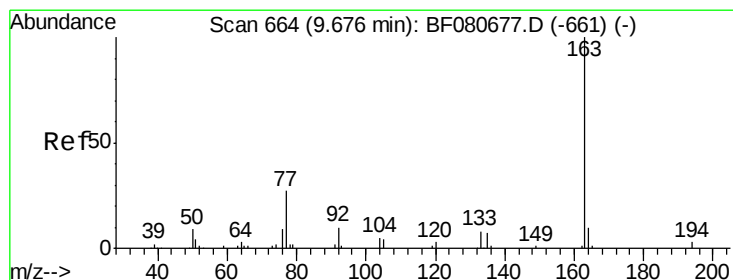
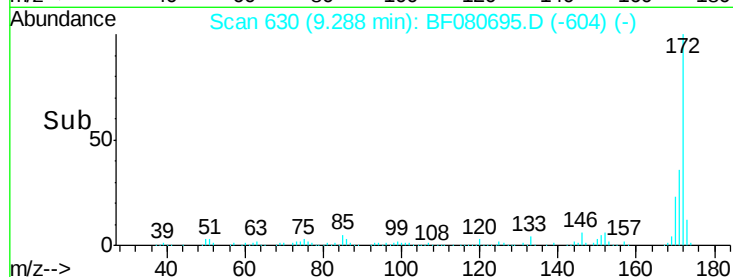
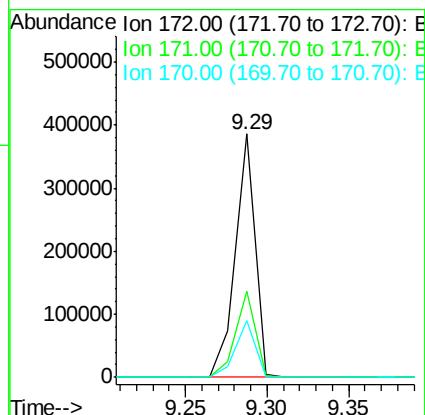
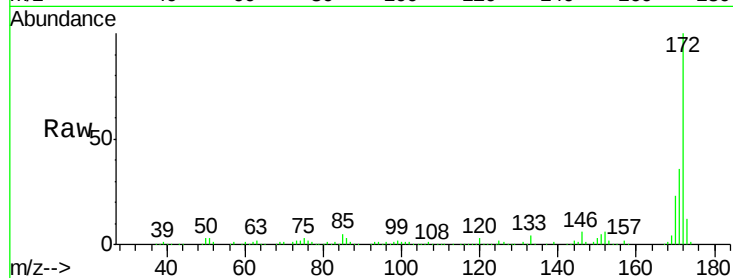




#44
2-Fluorobiphenyl
Concen: 109.26 ng
RT: 9.29 min Scan# 630
Delta R.T. 0.00 min
Lab File: BF080695.D
Acq: 28 Jul 2015 3:28

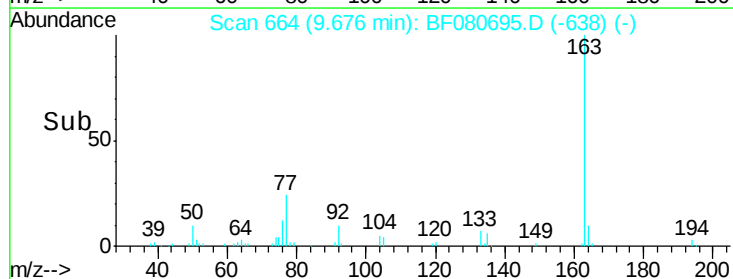
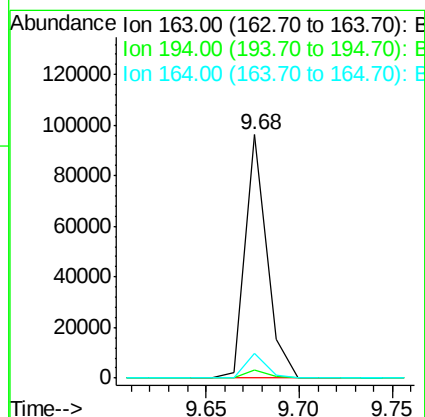
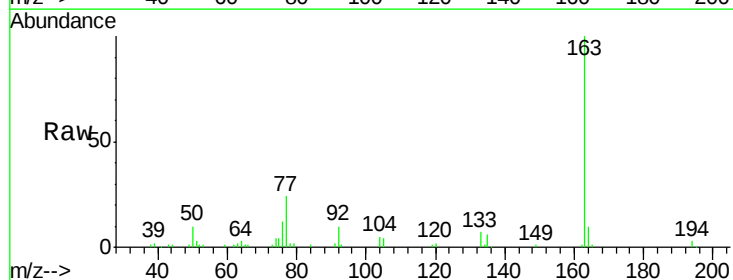
Instrument :
BNA_F
ClientSampleId :
DUMBO-EP-4

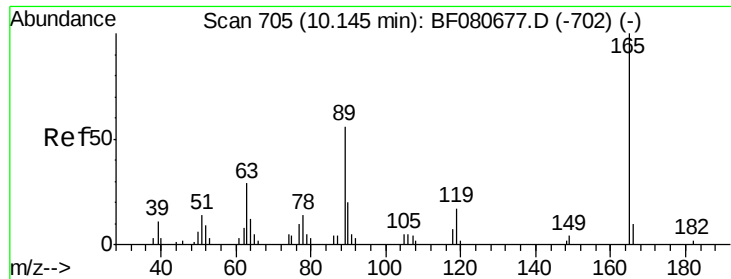
Tot Ion:172 Resp: 320048
Ion Ratio Lower Upper
172 100
171 35.6 26.6 39.8
170 23.3 18.6 28.0



#49
Dimethylphthalate
Concen: 32.62 ng
RT: 9.68 min Scan# 664
Delta R.T. 0.00 min
Lab File: BF080695.D
Acq: 28 Jul 2015 3:28

Tgt Ion:163 Resp: 78275
Ion Ratio Lower Upper
163 100
194 3.2 2.4 3.6
164 10.1 8.1 12.1

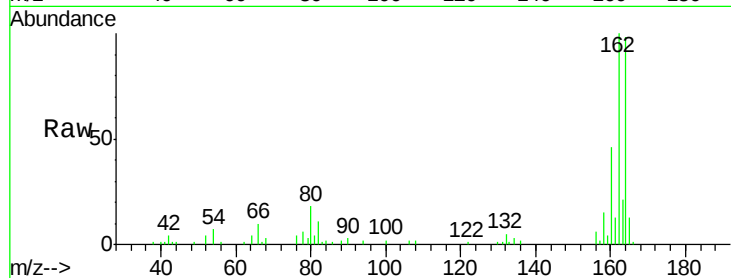




#56
 2,4-Dinitrotoluene
 Concen: 9.25 ng
 RT: 9.96 min Scan# 689
 Delta R.T. -0.18 min
 Lab File: BF080695.D
 Acq: 28 Jul 2015 3:28

Instrument :
 BNA_F
 ClientSampleId :
 DUMBO-EP-4

Tot Ion:165	Resp:	5010
Ion Ratio	Lower	Upper
165	100	
63	0.0	23.2 34.8#
89	0.0	44.6 67.0#
182	0.0	1.9 2.9#

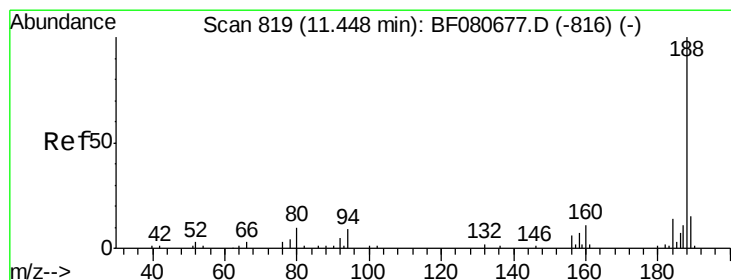
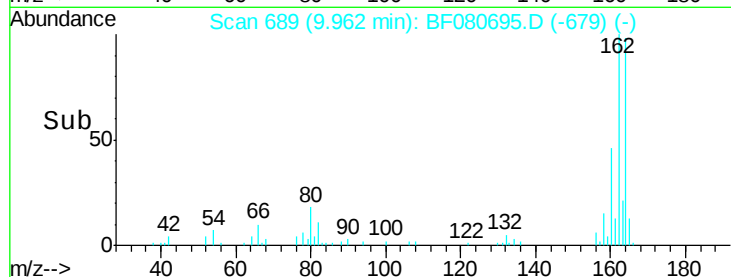
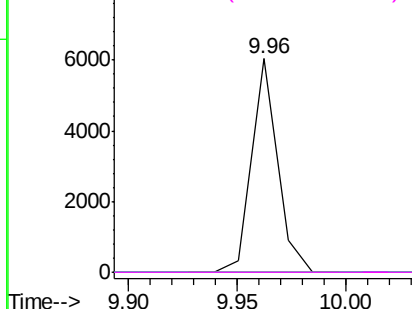


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

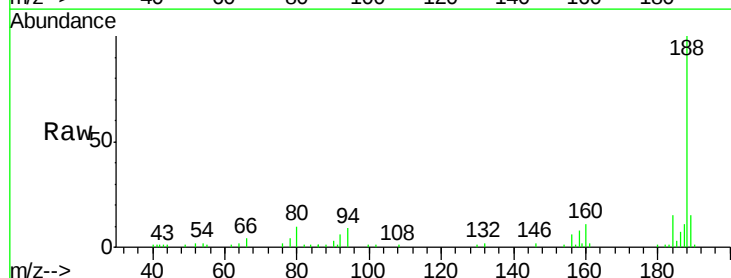
Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E



#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.45 min Scan# 819
 Delta R.T. 0.00 min
 Lab File: BF080695.D
 Acq: 28 Jul 2015 3:28

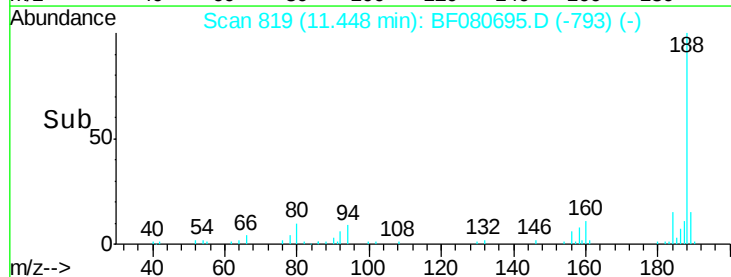
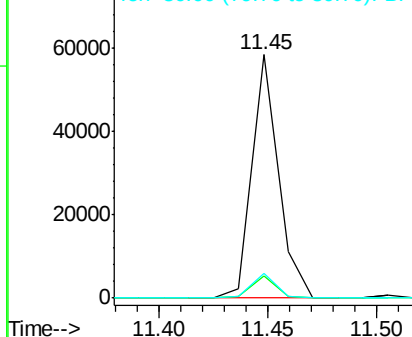
Tgt Ion:188	Resp:	49466
Ion Ratio	Lower	Upper
188	100	
94	9.2	7.2 10.8
80	10.1	8.2 12.2

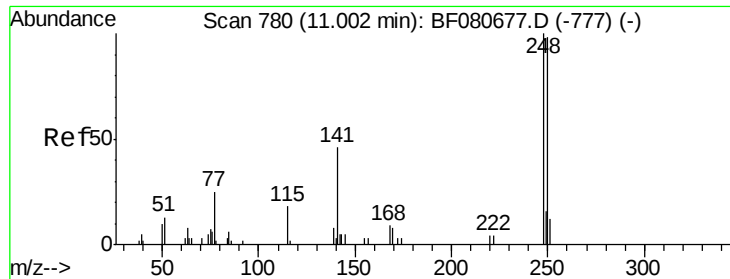


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0

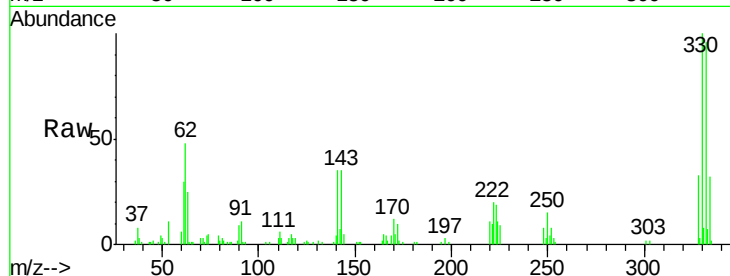




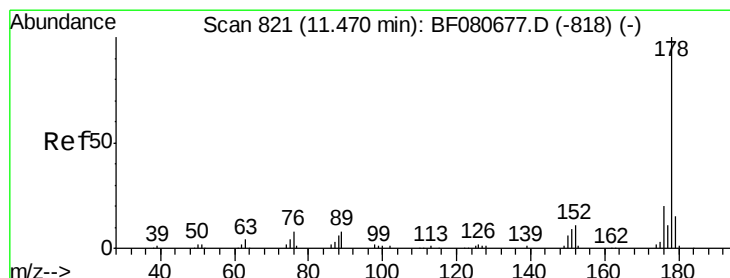
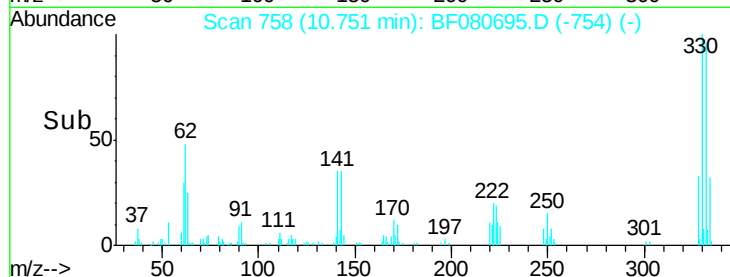
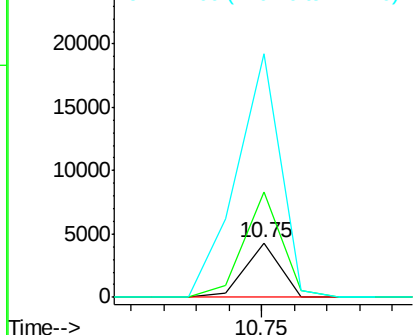
#66
4-Bromophenyl-phenylether
Concen: 6.01 ng
RT: 10.75 min Scan# 758
Delta R.T. -0.25 min
Lab File: BF080695.D
Acq: 28 Jul 2015 3:28

Instrument :
BNA_F
ClientSampleId :
DUMBO-EP-4

Tot Ion:248 Resp: 3175
Ion Ratio Lower Upper
248 100
250 194.8 78.5 117.7#
141 449.7 36.8 55.2#

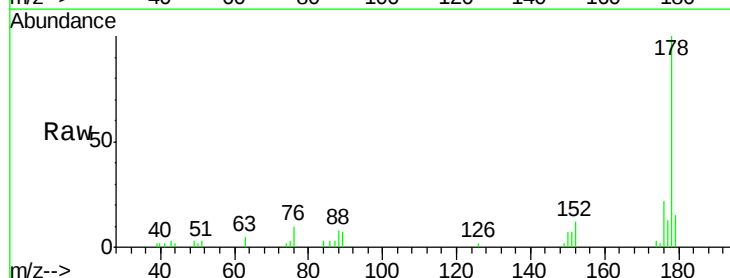


Abundance Ion 248.00 (247.70 to 248.70): E
Ion 250.00 (249.70 to 250.70): E
Ion 141.00 (140.70 to 141.70): E

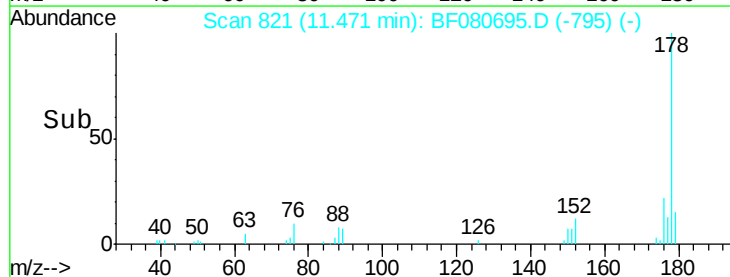
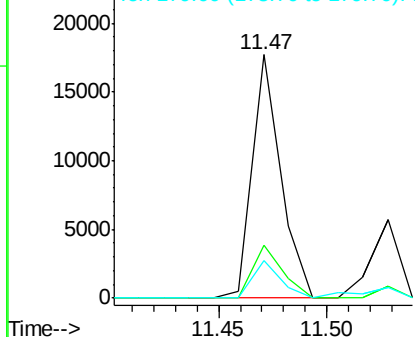


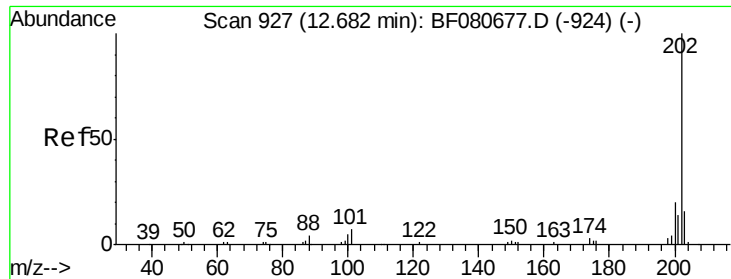
#70
Phenanthrene
Concen: 5.70 ng
RT: 11.47 min Scan# 821
Delta R.T. 0.00 min
Lab File: BF080695.D
Acq: 28 Jul 2015 3:28

Tgt Ion:178 Resp: 16086
Ion Ratio Lower Upper
178 100
176 21.5 15.6 23.4
179 15.2 12.3 18.5



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

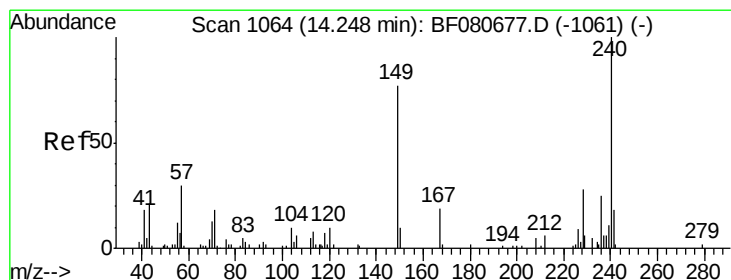
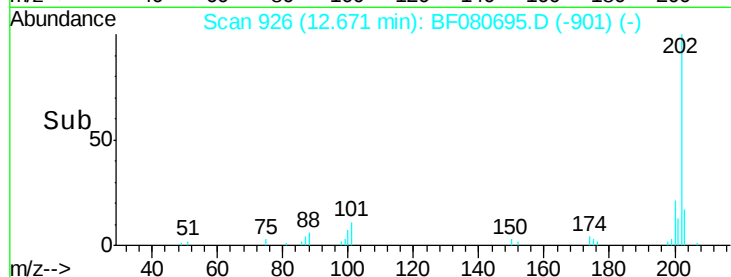
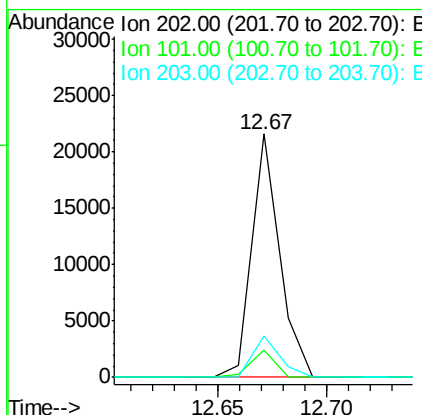
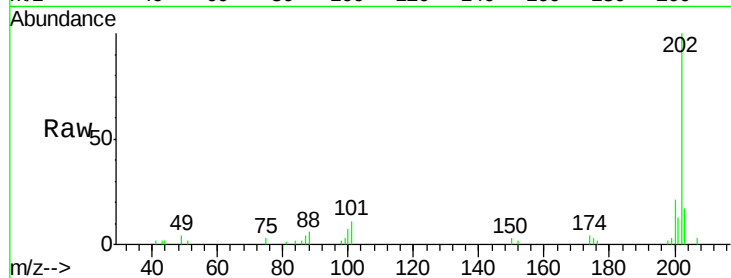




#74
 Fluoranthene
 Concen: 8.66 ng
 RT: 12.67 min Scan# 926
 Delta R.T. -0.01 min
 Lab File: BF080695.D
 Acq: 28 Jul 2015 3:28

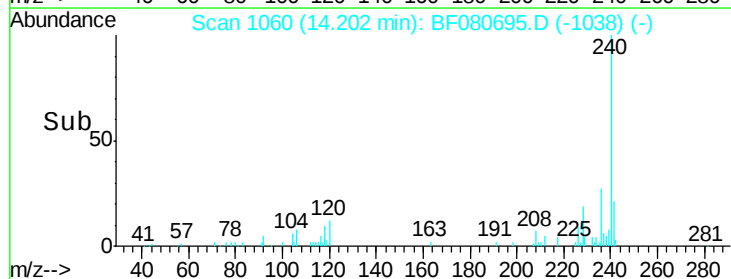
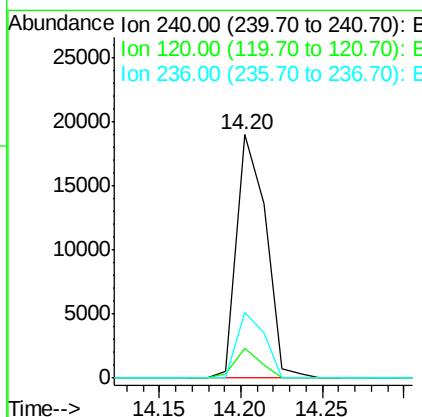
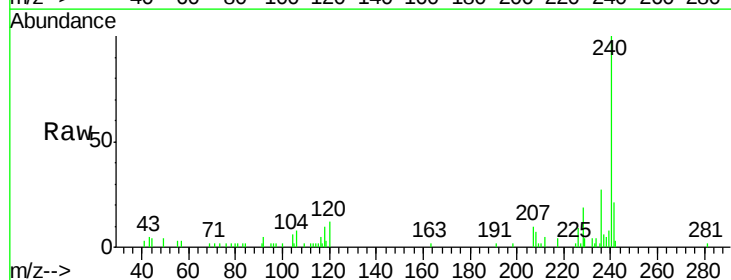
Instrument :
 BNA_F
 ClientSampleId :
 DUMBO-EP-4

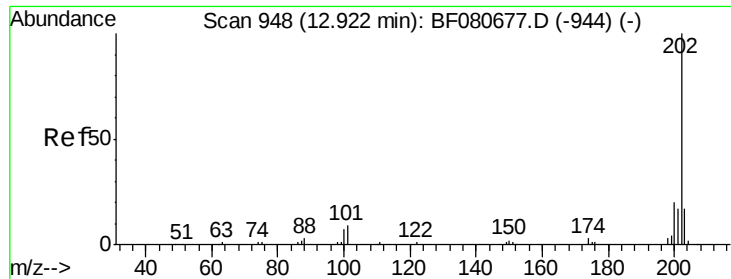
Tot Ion:	202	Resp:	19177
Ion	Ratio	Lower	Upper
202	100		
101	11.0	0.0	27.3
203	17.2	0.0	36.0



#75
 Chrysene-d12
 Concen: 20.00 ng
 RT: 14.20 min Scan# 1060
 Delta R.T. -0.05 min
 Lab File: BF080695.D
 Acq: 28 Jul 2015 3:28

Tgt Ion:	240	Resp:	23465
Ion	Ratio	Lower	Upper
240	100		
120	12.4	8.0	12.0#
236	27.1	20.0	30.0

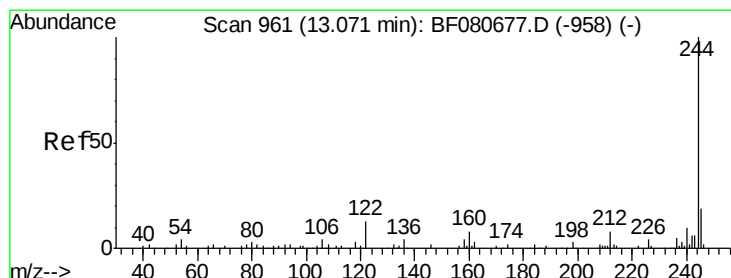
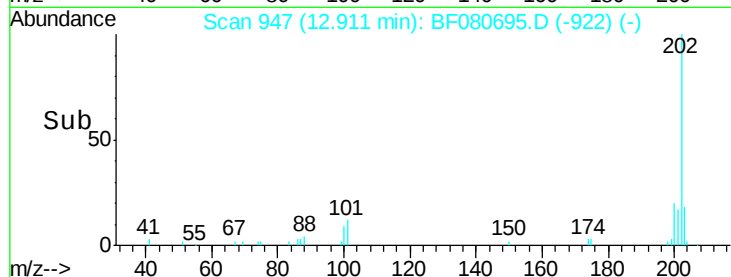
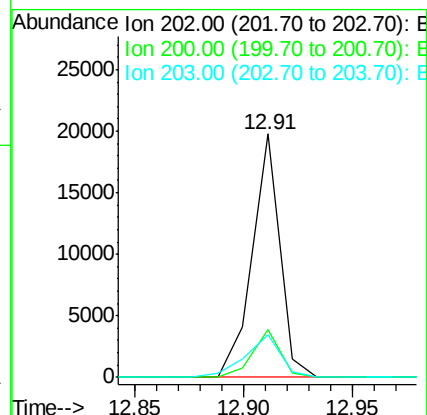
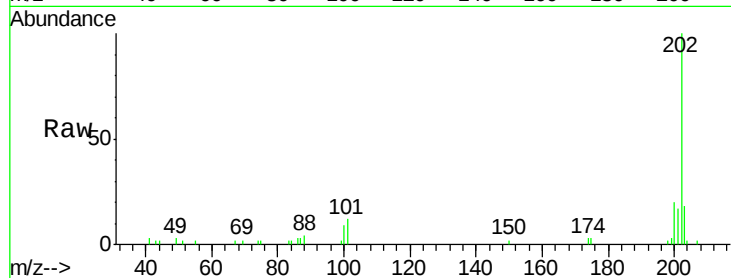




#77
Pvrene
Concen: 8.84 ng
RT: 12.91 min Scan# 947
Delta R.T. -0.01 min
Lab File: BF080695.D
Acq: 28 Jul 2015 3:28

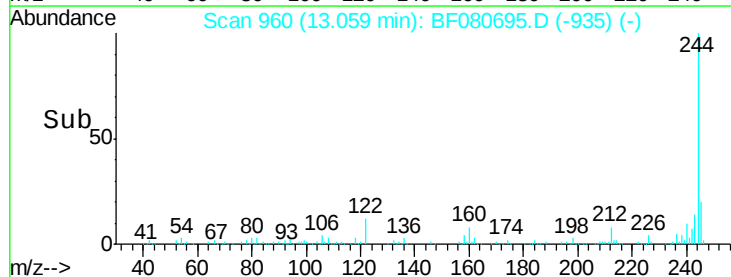
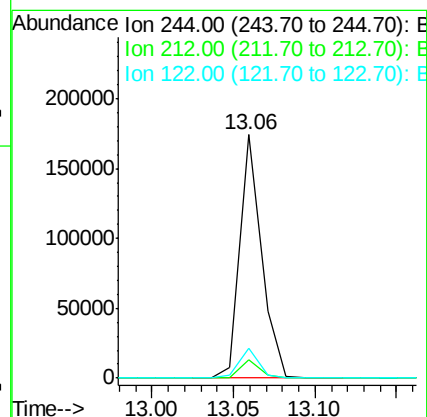
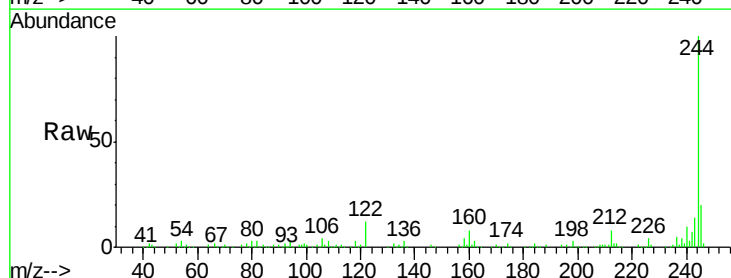
Instrument :
BNA_F
ClientSampleId :
DUMBO-EP-4

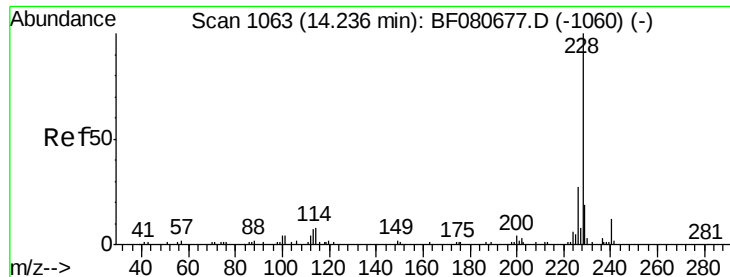
Tot Ion	Ratio	Lower	Upper
202	100		
200	19.6	16.3	24.5
203	17.8	13.4	20.2



#78
Terphenyl-d14
Concen: 115.78 ng
RT: 13.06 min Scan# 960
Delta R.T. -0.01 min
Lab File: BF080695.D
Acq: 28 Jul 2015 3:28

Tgt Ion	Ratio	Lower	Upper
244	100		
212	7.7	6.1	9.1
122	12.5	10.2	15.2





#80

Benzo(a)anthracene

Concen: 4.32 ng

RT: 14.19 min Scan# 1059

Delta R.T. -0.05 min

Lab File: BF080695.D

Acq: 28 Jul 2015 3:28

Instrument :

BNA_F

ClientSampleId :

DUMBO-EP-4

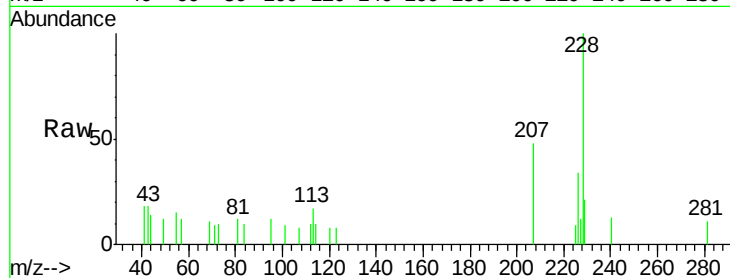
Tot Ion:228 Resp: 5878

Ion Ratio Lower Upper

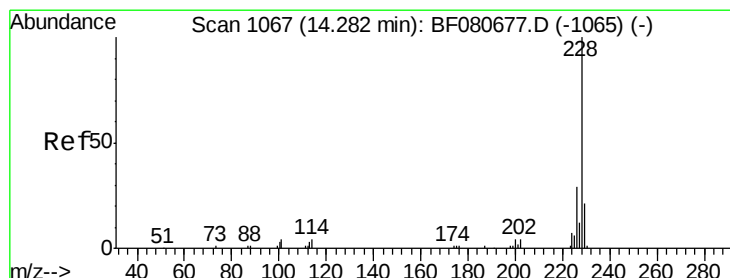
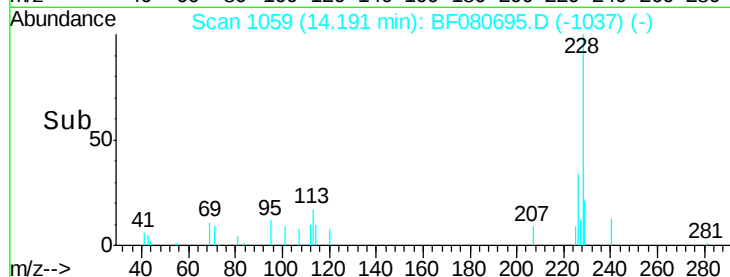
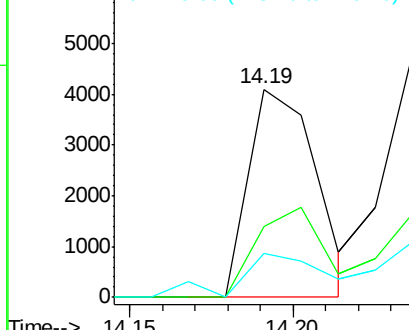
228 100

226 33.8 21.8 32.6#

229 21.1 14.9 22.3



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: 4.34 ng

RT: 14.19 min Scan# 1059

Delta R.T. -0.09 min

Lab File: BF080695.D

Acq: 28 Jul 2015 3:28

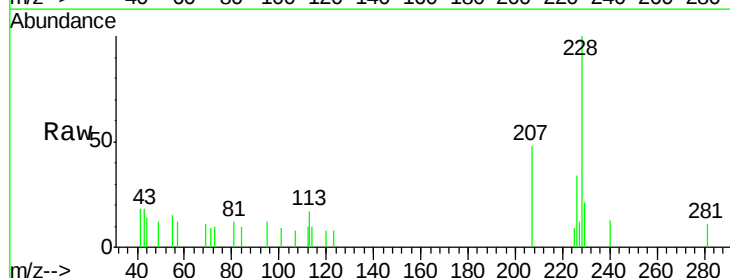
Tgt Ion:228 Resp: 5878

Ion Ratio Lower Upper

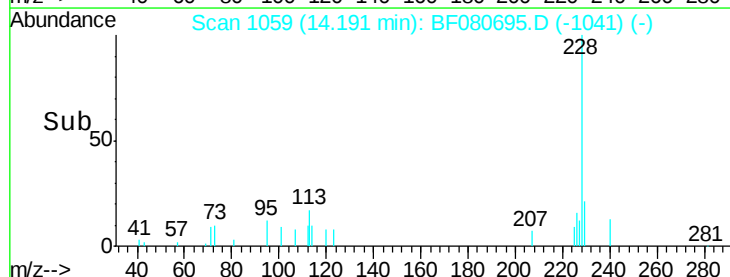
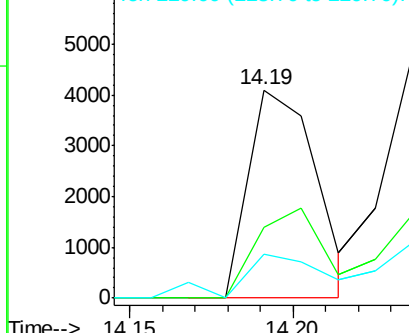
228 100

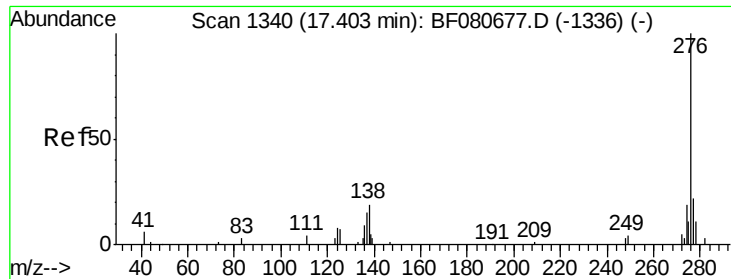
226 33.8 23.0 34.4

229 21.1 17.1 25.7



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

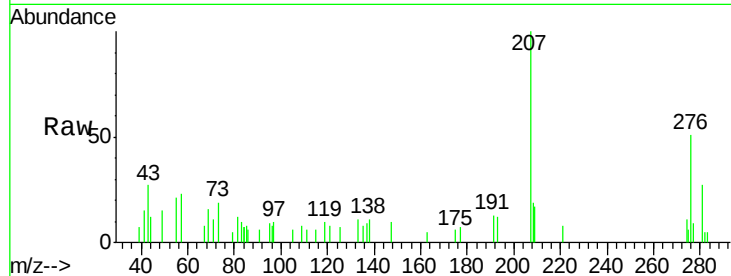




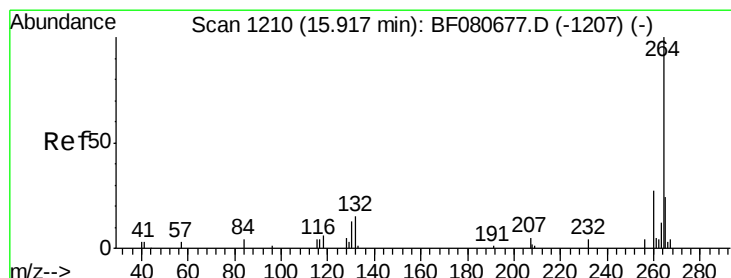
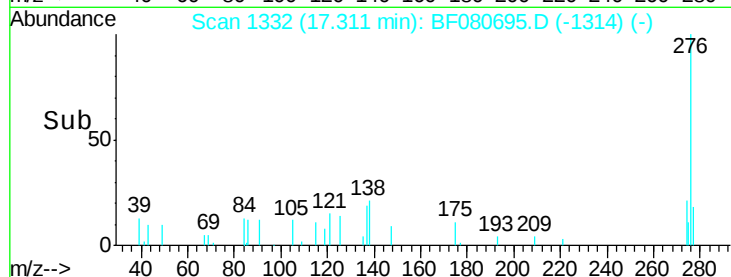
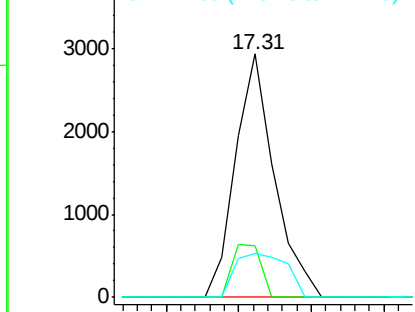
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 9.52 ng
 RT: 17.31 min Scan# 1332
 Delta R.T. -0.09 min
 Lab File: BF080695.D
 Acq: 28 Jul 2015 3:28

Instrument :
 BNA_F
 ClientSampleId :
 DUMBO-EP-4

Tot Ion:276 Resp: 5444
 Ion Ratio Lower Upper
 276 100
 138 15.8 19.7 29.5#
 277 23.9 18.2 27.4

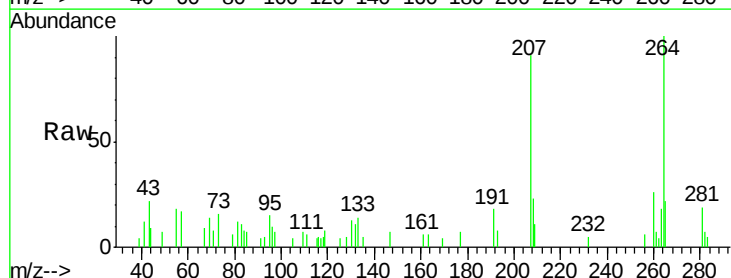


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

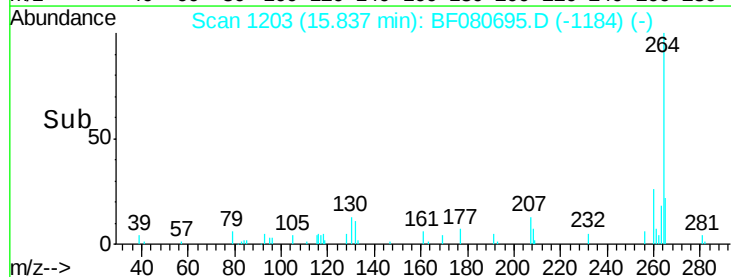
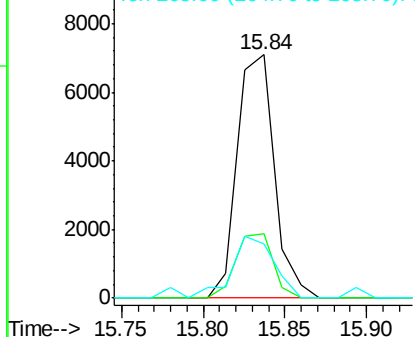


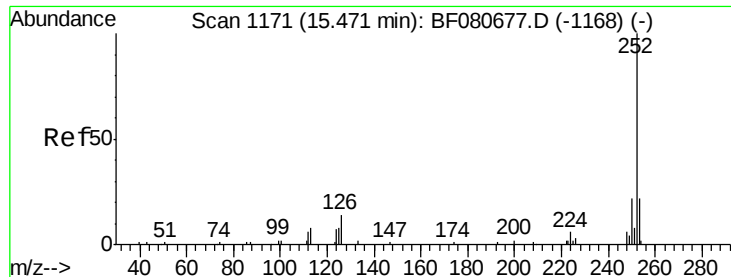
#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.84 min Scan# 1203
 Delta R.T. -0.08 min
 Lab File: BF080695.D
 Acq: 28 Jul 2015 3:28

Tgt Ion:264 Resp: 11159
 Ion Ratio Lower Upper
 264 100
 260 26.5 21.6 32.4
 265 22.5 19.3 28.9



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: 6.37 ng

RT: 15.40 min Scan# 1165

Delta R.T. -0.07 min

Lab File: BF080695.D

Acq: 28 Jul 2015 3:28

Instrument :

BNA_F

ClientSampleId :

DUMBO-EP-4

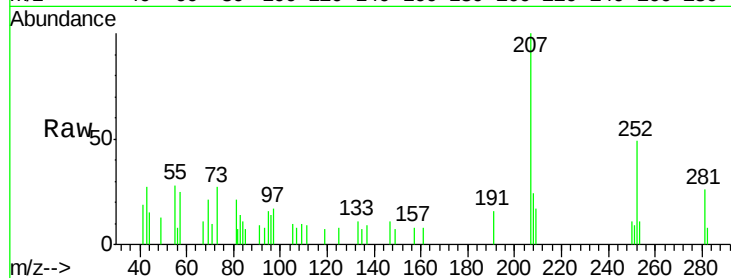
Tot Ion:252 Resp: 5179

Ion Ratio Lower Upper

252 100

253 23.2 17.8 26.8

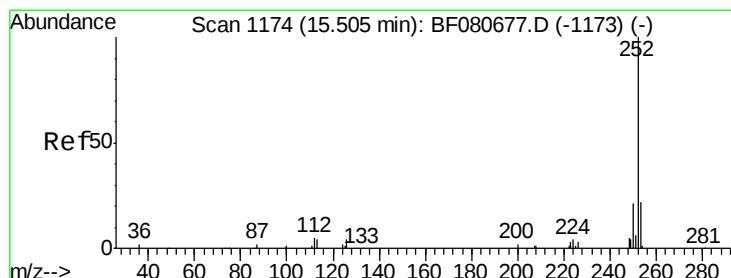
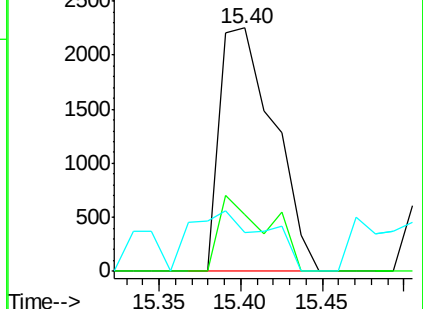
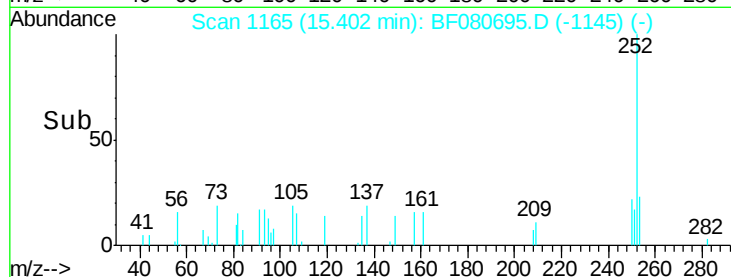
125 15.8 6.7 10.1#



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: 6.95 ng

RT: 15.40 min Scan# 1165

Delta R.T. -0.10 min

Lab File: BF080695.D

Acq: 28 Jul 2015 3:28

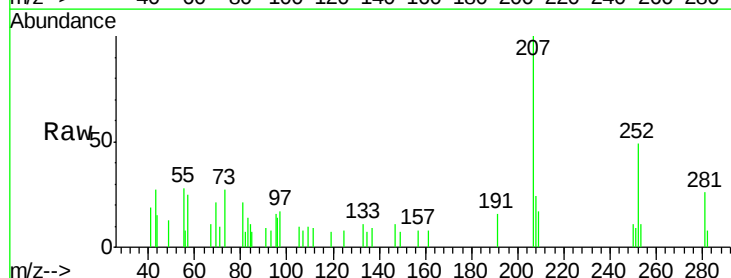
Tgt Ion:252 Resp: 5179

Ion Ratio Lower Upper

252 100

253 23.2 17.8 26.6

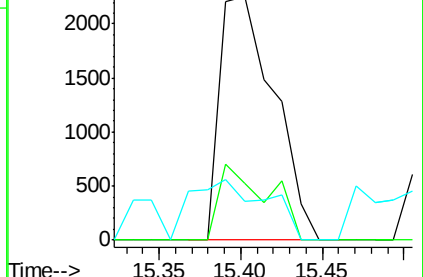
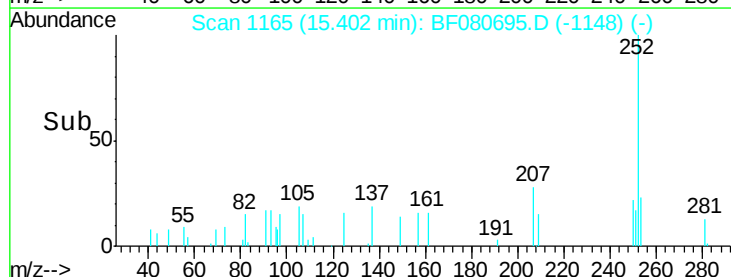
125 15.8 6.7 10.1#

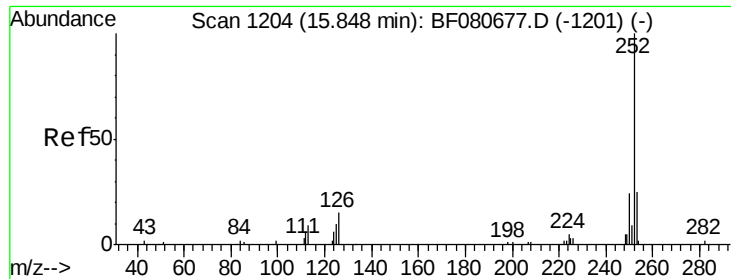


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 4.38 ng

RT: 15.77 min Scan# 1197

Delta R.T. -0.08 min

Lab File: BF080695.D

Acq: 28 Jul 2015 3:28

Instrument :

BNA_F

ClientSampleId :

DUMBO-EP-4

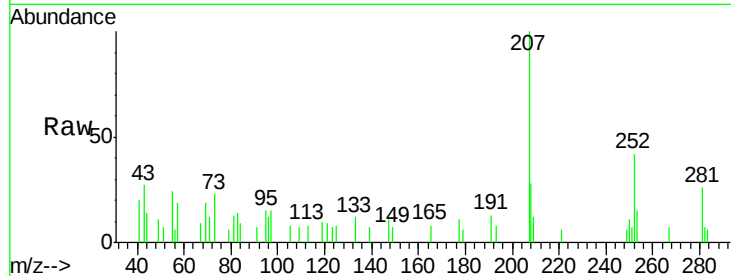
Tot Ion:252 Resp: 2719

Ion Ratio Lower Upper

252 100

253 36.7 20.2 30.2#

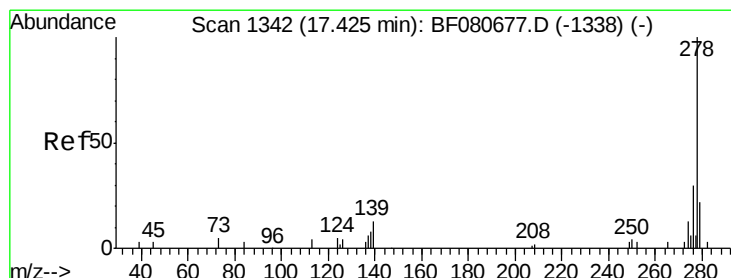
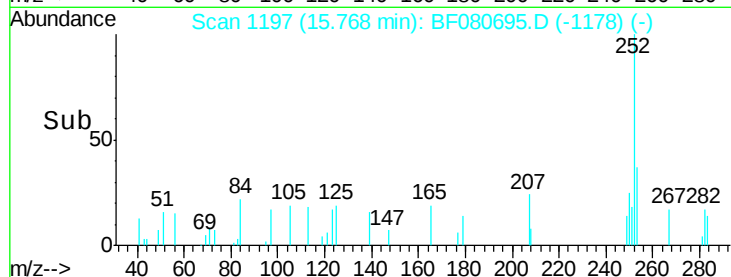
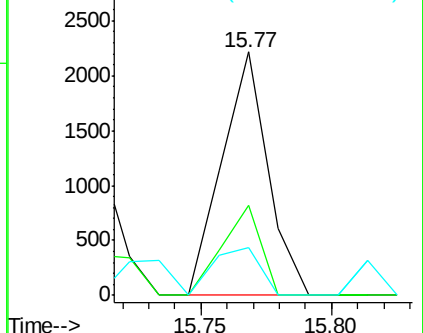
125 19.3 8.4 12.6#



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: 2.80 ng

RT: 17.33 min Scan# 1334

Delta R.T. -0.09 min

Lab File: BF080695.D

Acq: 28 Jul 2015 3:28

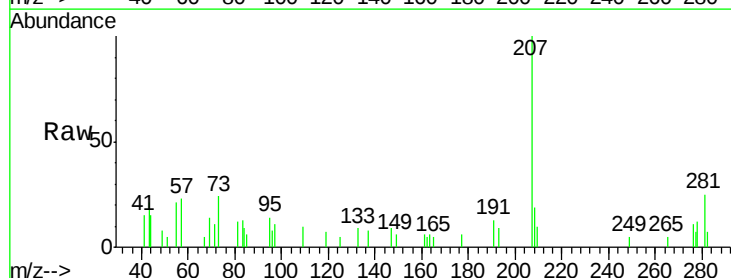
Tgt Ion:278 Resp: 1196

Ion Ratio Lower Upper

278 100

139 0.0 10.3 15.5#

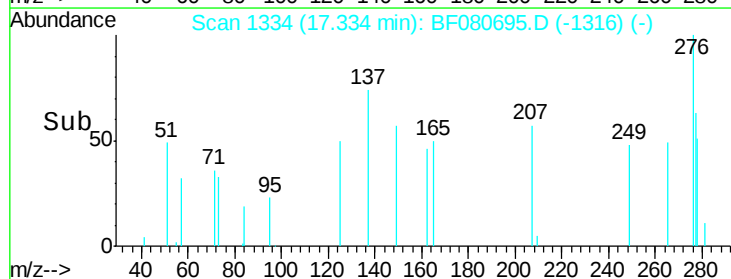
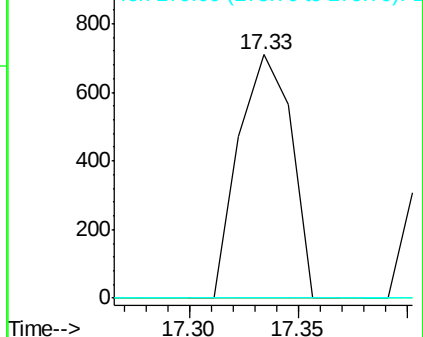
279 0.0 17.4 26.0#

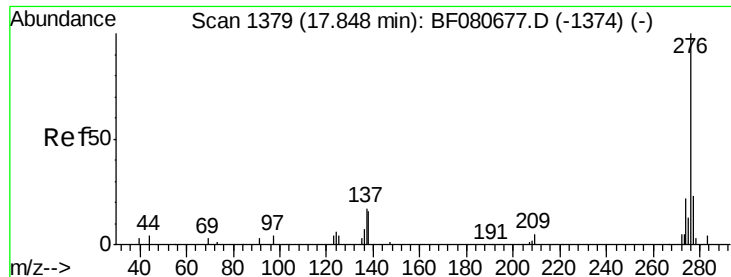


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#91

Benzo(a,h,i)perylene

Concen: 19.58 ng

RT: 17.76 min Scan# 1371

Delta R.T. -0.09 min

Lab File: BF080695.D

Acq: 28 Jul 2015 3:28

Instrument :

BNA_F

ClientSampleId :

DUMBO-EP-4

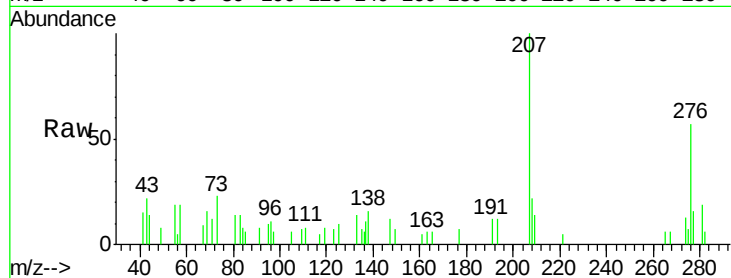
Tot Ion:276 Resp: 8104

Ion Ratio Lower Upper

276 100

277 27.2 18.7 28.1

138 27.7 12.7 19.1



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

