

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF050416\
 Data File : BF086704.D
 Acq On : 5 May 2016 4:16
 Operator : UM/SJ
 Sample : H2829-11
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 EUT01-TD-B4(5-12)-C

Quant Time: May 05 05:39:18 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF050416.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 04 15:12:53 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.74	152	157109	40.00	ng	0.00
21) Naphthalene-d8	8.03	136	545721	40.00	ng	0.00
38) Acenaphthene-d10	9.78	164	226164	40.00	ng	0.00
63) Phenanthrene-d10	11.25	188	364570	40.00	ng	0.00
75) Chrysene-d12	13.89	240	312643	40.00	ng	0.01
86) Perylene-d12	15.28	264	213642	40.00	ng	0.01

System Monitoring Compounds						
5) 2-Fluorophenol	5.33	112	1056725	111.35	ng	0.01
7) Phenol-d6	6.38	99	1257441	98.36	ng	0.01
23) Nitrobenzene-d5	7.31	82	848335	79.88	ng	0.00
41) 2,4,6-Tribromophenol	10.57	330	224796	101.61	ng	0.00
44) 2-Fluorobiphenyl	9.10	172	1129574	81.87	ng	0.00
78) Terphenyl-d14	12.84	244	829786	53.64	ng	0.00

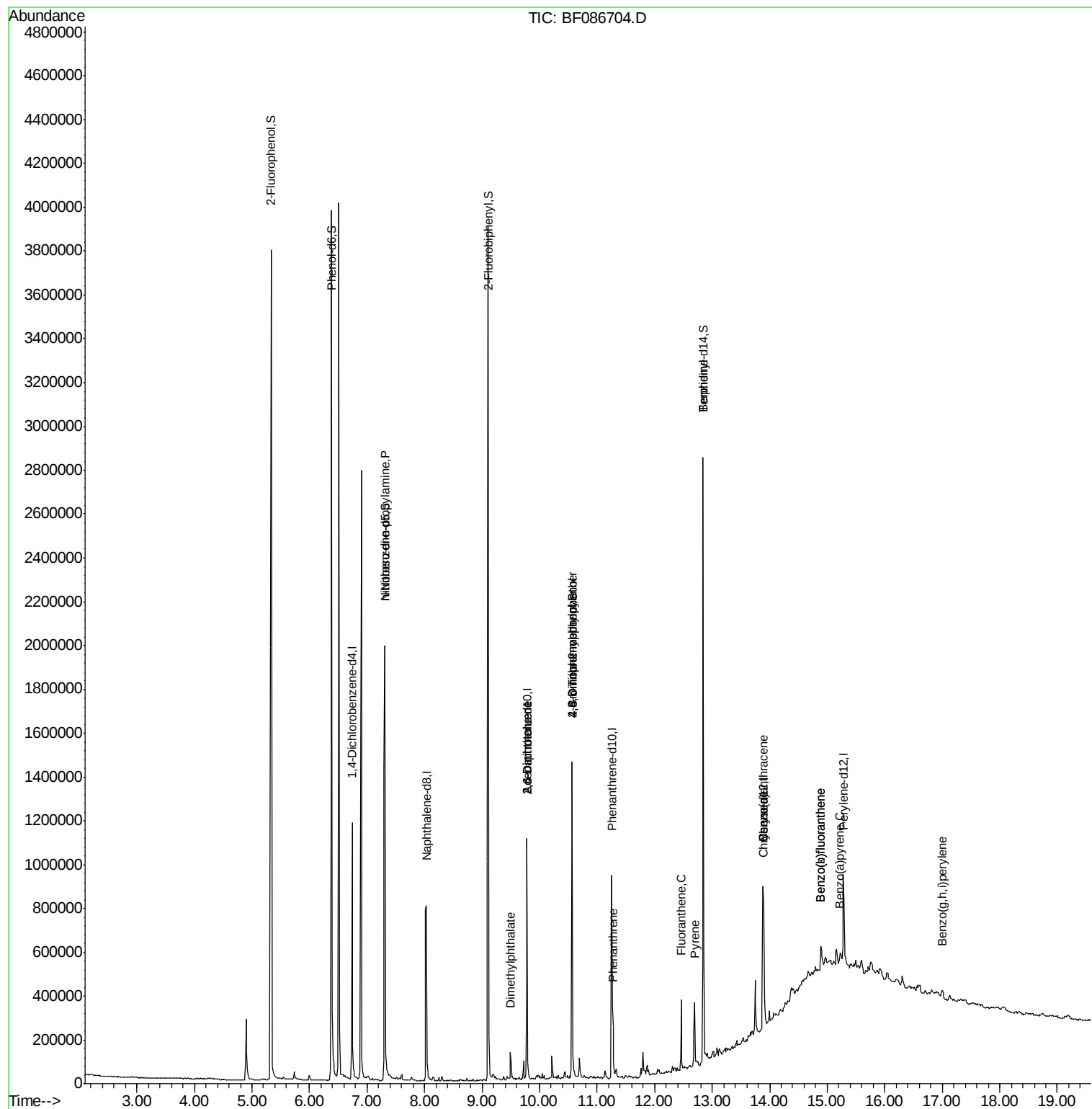
Target Compounds						Qvalue
19) n-Nitroso-di-n-propylamine	7.31	70	115870	13.27	ng	# 82
49) Dimethylphthalate	9.49	163	57161	3.39	ng	98
50) 2,6-Dinitrotoluene	9.78	165	29042	8.03	ng	# 21
56) 2,4-Dinitrotoluene	9.78	165	29042	6.48	ng	# 16
64) 4,6-Dinitro-2-methylphenol	10.57	198	644	5.61	ng	# 1
66) 4-Bromophenyl-phenylether	10.57	248	13608	3.76	ng	# 1
70) Phenanthrene	11.28	178	79513	4.06	ng	99
74) Fluoranthene	12.47	202	124007	6.32	ng	94
76) Benzidine	12.84	184	13344	8.42	ng	# 93
77) Pyrene	12.69	202	128404	5.15	ng	98
80) Benzo(a)anthracene	13.88	228	51300	2.90	ng	94
82) Chrysene	13.88	228	51300	2.72	ng	96
87) Benzo(b)fluoranthene	14.89	252	64866	5.05	ng	# 85
88) Benzo(k)fluoranthene	14.89	252	64866	5.36	ng	# 83
89) Benzo(a)pyrene	15.22	252	34270	2.90	ng	# 79
91) Benzo(g,h,i)perylene	17.00	276	25824	2.17	ng	96

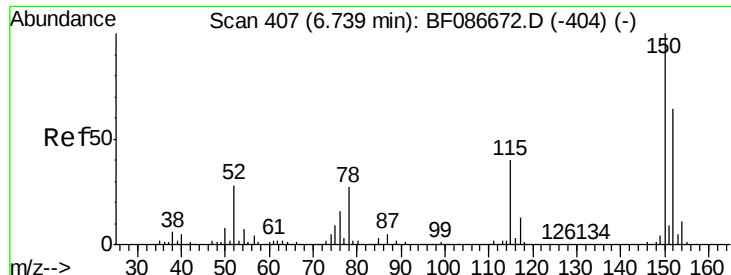
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 40.00 ng

RT: 6.74 min Scan# 407

Delta R.T. 0.00 min

Lab File: BF086704.D

Acq: 5 May 2016 4:16

Instrument :

BNA_F

ClientSampleId :

EUT01-TD-B4(5-12)-C

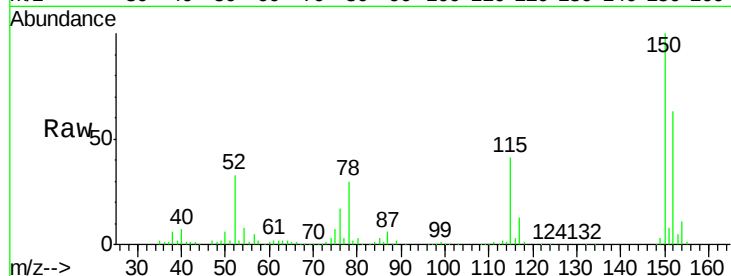
Tgt Ion:152 Resp: 157109

Ion Ratio Lower Upper

152 100

150 157.6 125.8 188.6

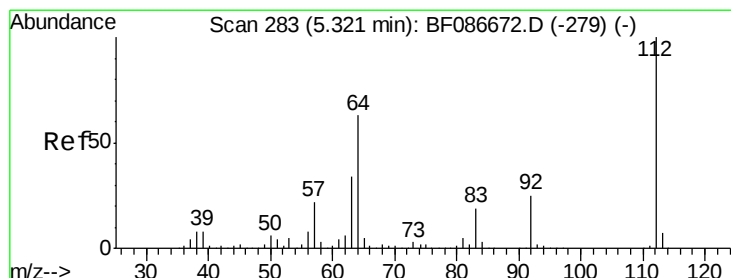
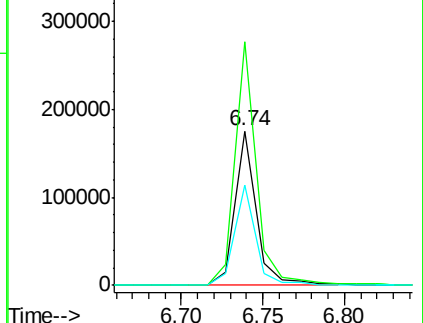
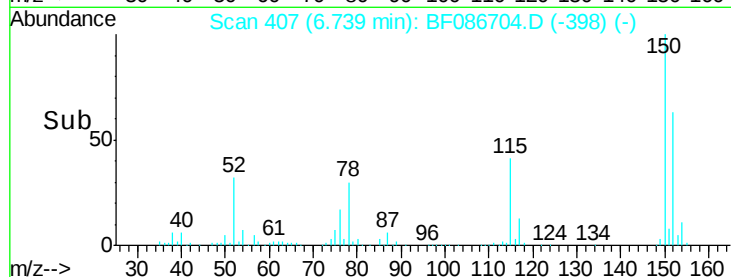
115 64.8 51.5 77.3



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol

Concen: 111.35 ng

RT: 5.33 min Scan# 284

Delta R.T. 0.01 min

Lab File: BF086704.D

Acq: 5 May 2016 4:16

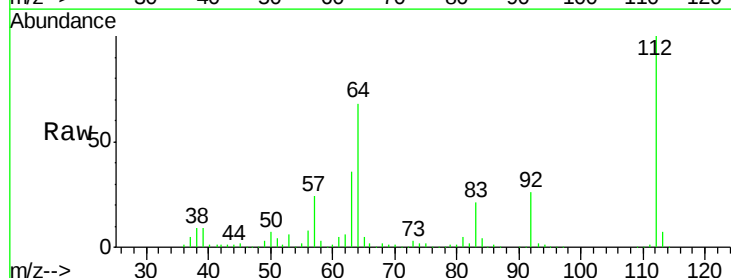
Tgt Ion:112 Resp: 1056725

Ion Ratio Lower Upper

112 100

64 67.6 52.1 78.1

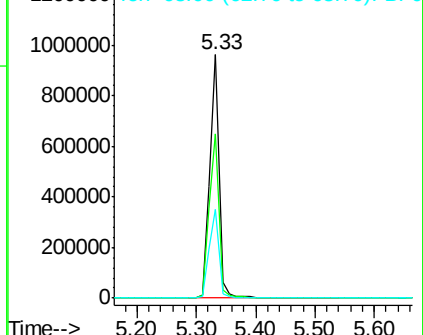
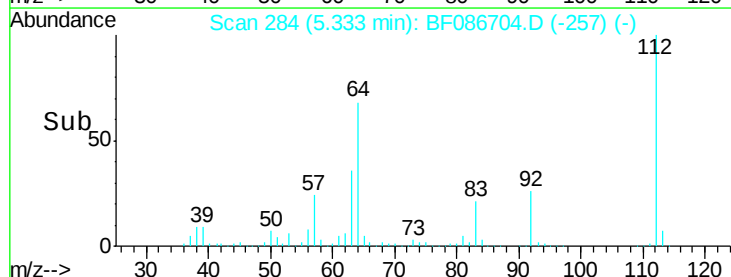
63 36.3 25.7 38.5

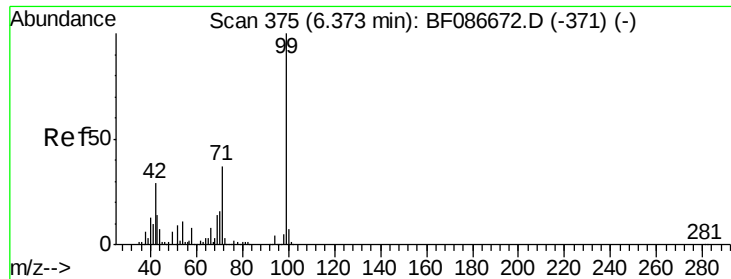


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 98.36 ng

RT: 6.38 min Scan# 376

Delta R.T. 0.01 min

Lab File: BF086704.D

Acq: 5 May 2016 4:16

Instrument :

BNA_F

ClientSampleId :

EUT01-TD-B4(5-12)-C

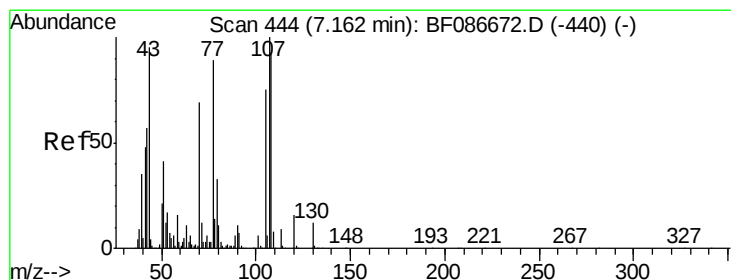
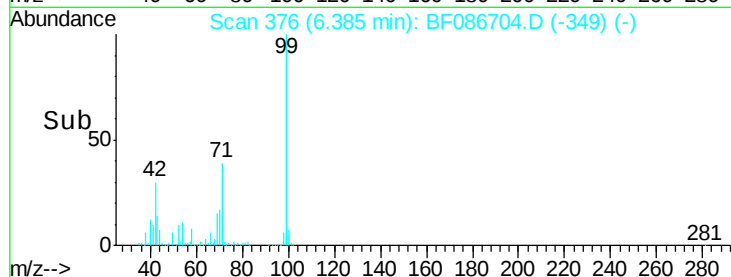
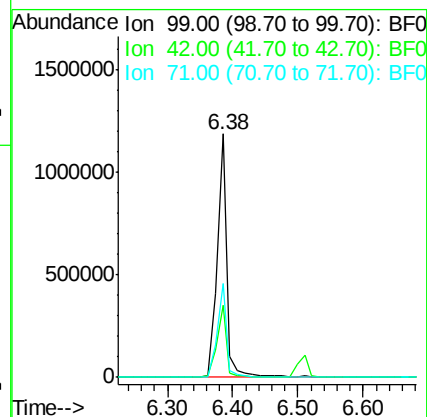
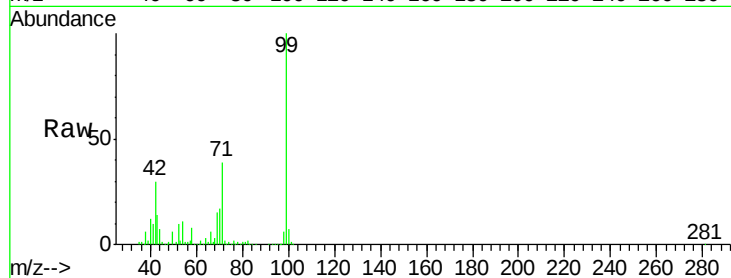
Tgt Ion: 99 Resp: 1257441

Ion Ratio Lower Upper

99 100

42 29.6 13.6 20.4#

71 38.6 24.6 36.8#



#19

n-Nitroso-di-n-propylamine

Concen: 13.27 ng

RT: 7.31 min Scan# 457

Delta R.T. 0.15 min

Lab File: BF086704.D

Acq: 5 May 2016 4:16

Tgt Ion: 70 Resp: 115870

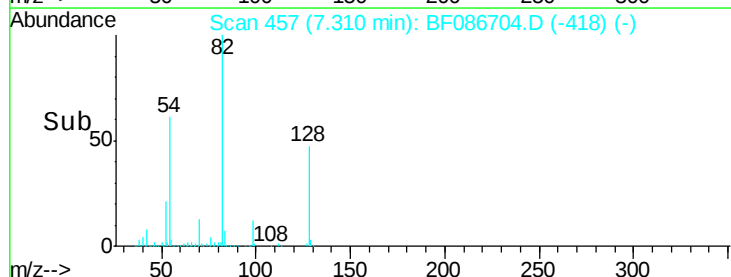
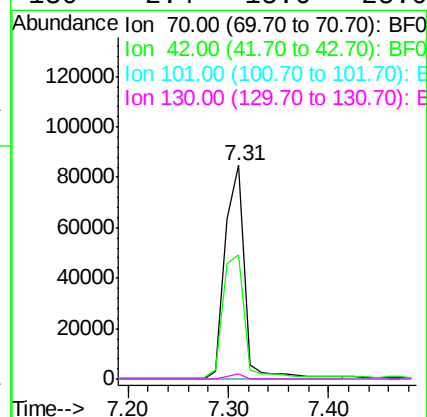
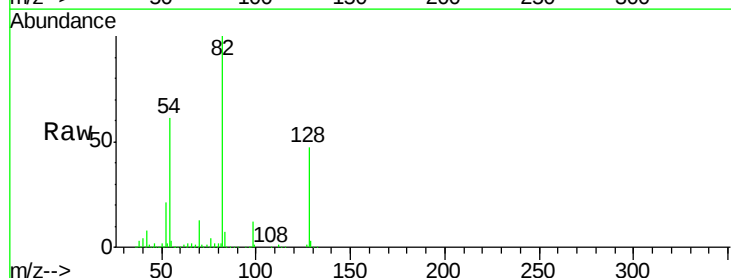
Ion Ratio Lower Upper

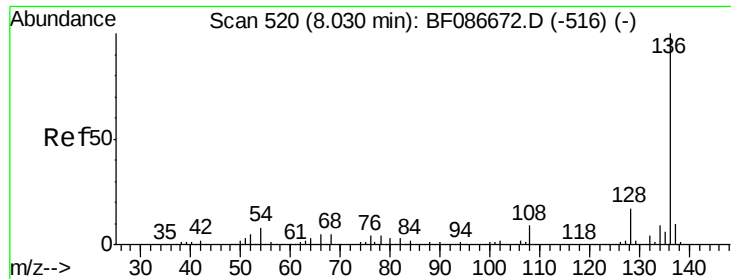
70 100

42 58.2 43.1 64.7

101 0.0 8.1 12.1#

130 2.4 18.6 28.0#

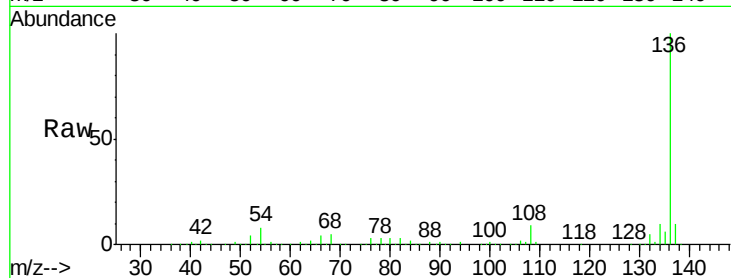




#21
Naphthalene-d8
Concen: 40.00 ng
RT: 8.03 min Scan# 520
Delta R.T. 0.00 min
Lab File: BF086704.D
Acq: 5 May 2016 4:16

Instrument :
BNA_F
ClientSampleId :
EUT01-TD-B4(5-12)-C

Tgt Ion	Ratio	Lower	Upper
136	100		
137	10.4	8.8	13.2
54	8.0	5.0	7.4#
68	4.9	4.4	6.6



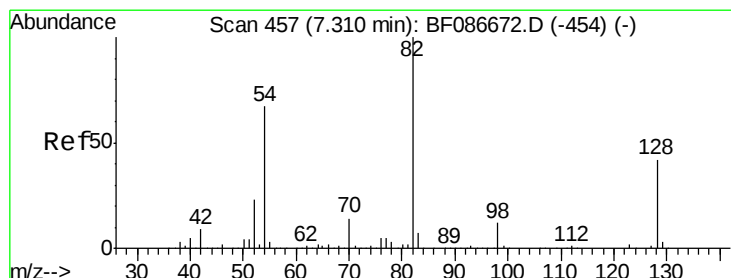
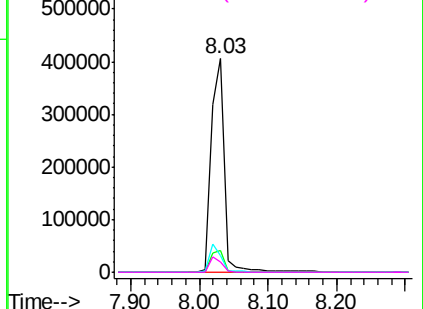
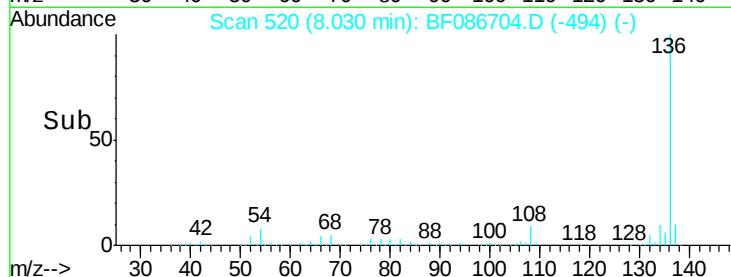
Abundance

Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

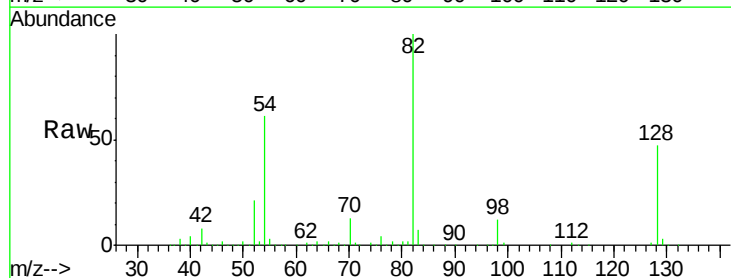
Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0



#23
Nitrobenzene-d5
Concen: 79.88 ng
RT: 7.31 min Scan# 457
Delta R.T. 0.00 min
Lab File: BF086704.D
Acq: 5 May 2016 4:16

Tgt Ion	Ratio	Lower	Upper
82	100		
128	47.0	40.6	61.0
54	61.5	38.1	57.1#

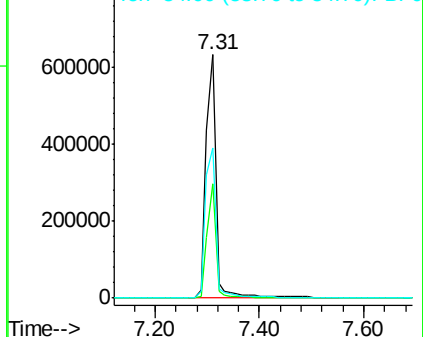
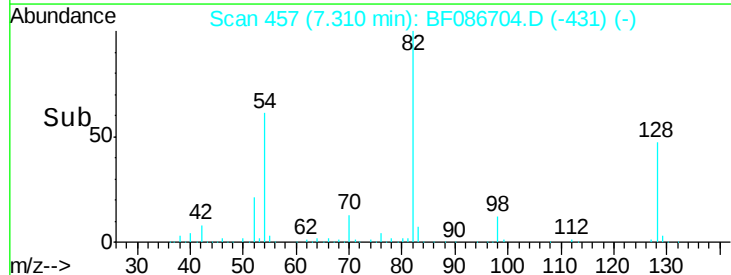


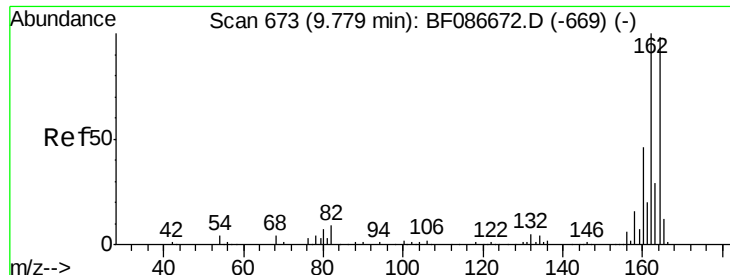
Abundance

Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0

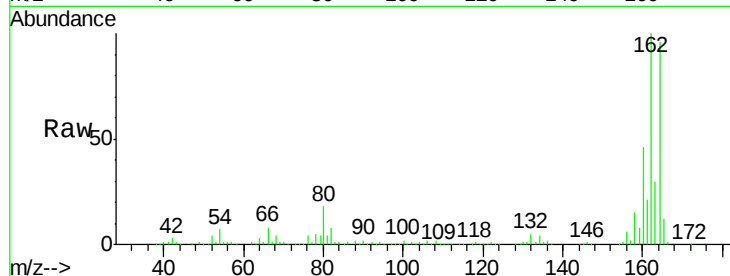




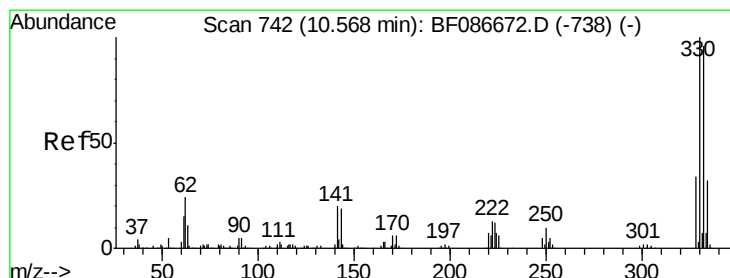
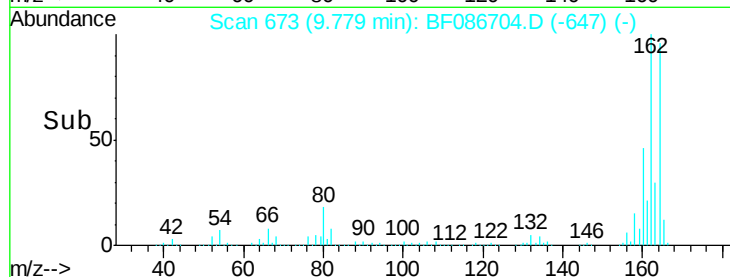
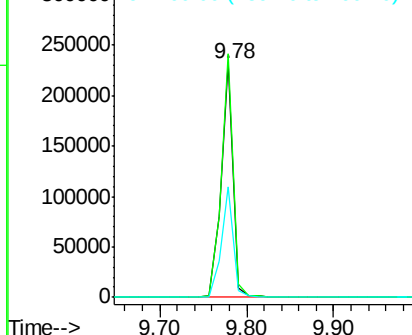
#38
 Acenaphthene-d10
 Concen: 40.00 ng
 RT: 9.78 min Scan# 673
 Delta R.T. 0.00 min
 Lab File: BF086704.D
 Acq: 5 May 2016 4:16

Instrument :
 BNA_F
 ClientSampleId :
 EUT01-TD-B4(5-12)-C

Tgt Ion:164 Resp: 226164
 Ion Ratio Lower Upper
 164 100
 162 104.0 82.8 124.2
 160 47.4 36.9 55.3

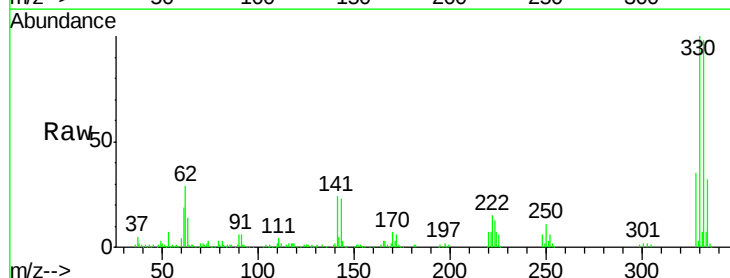


Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E

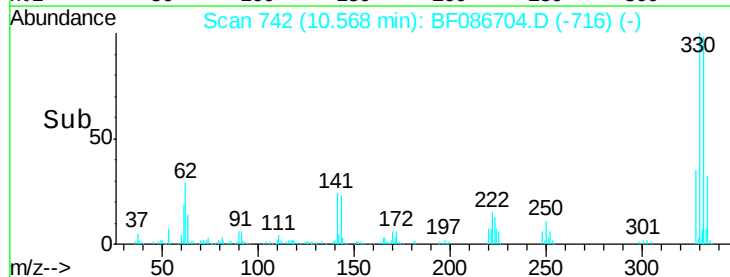
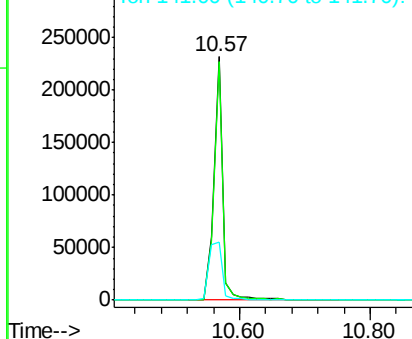


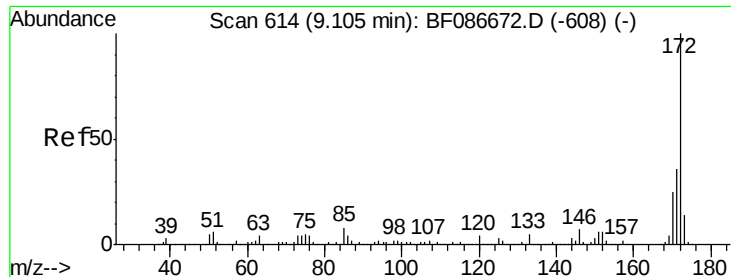
#41
 2,4,6-Tribromophenol
 Concen: 101.61 ng
 RT: 10.57 min Scan# 742
 Delta R.T. 0.00 min
 Lab File: BF086704.D
 Acq: 5 May 2016 4:16

Tgt Ion:330 Resp: 224796
 Ion Ratio Lower Upper
 330 100
 332 97.6 79.0 118.4
 141 36.5 31.2 46.8



Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

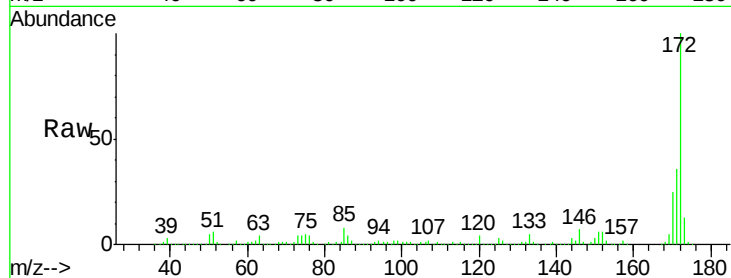




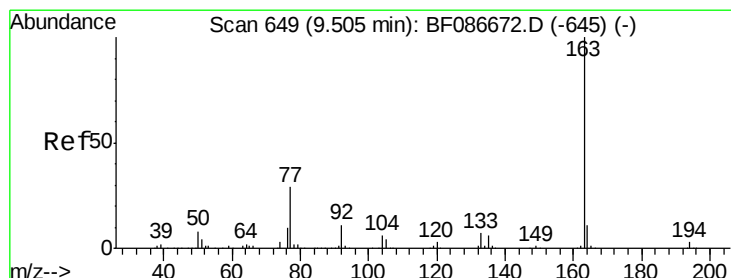
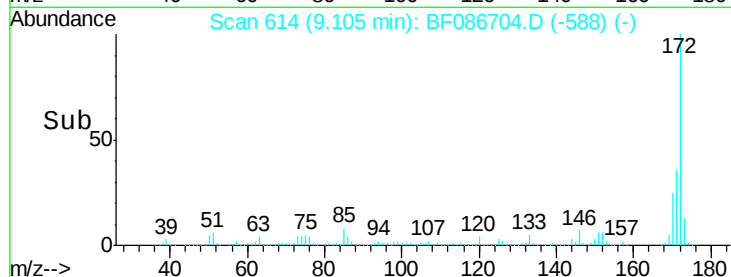
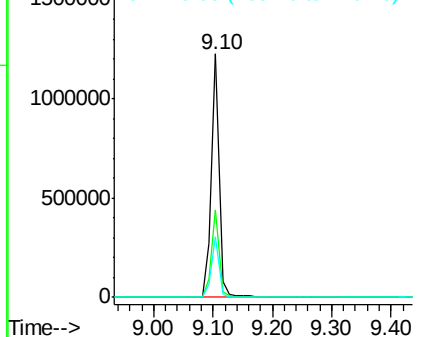
#44
 2-Fluorobiphenyl
 Concen: 81.87 ng
 RT: 9.10 min Scan# 614
 Delta R.T. 0.00 min
 Lab File: BF086704.D
 Acq: 5 May 2016 4:16

Instrument :
 BNA_F
 ClientSampleId :
 EUT01-TD-B4(5-12)-C

Tgt Ion:172 Resp: 1129574
 Ion Ratio Lower Upper
 172 100
 171 36.1 29.0 43.6
 170 24.7 19.8 29.8

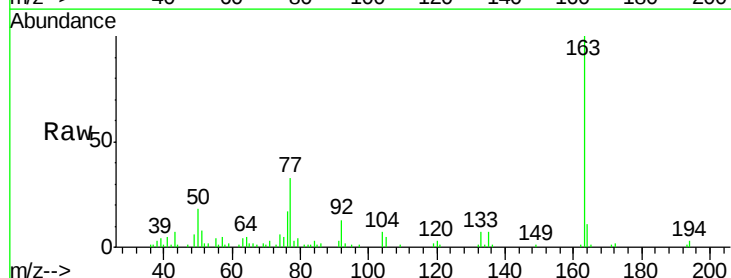


Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E

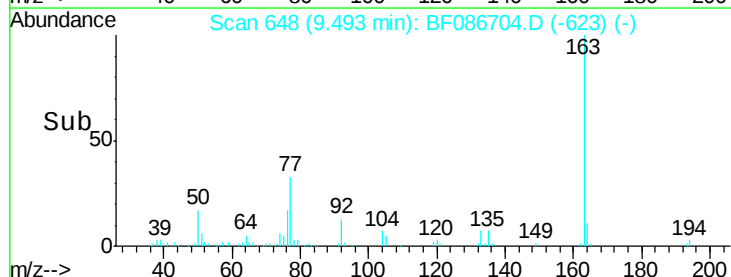
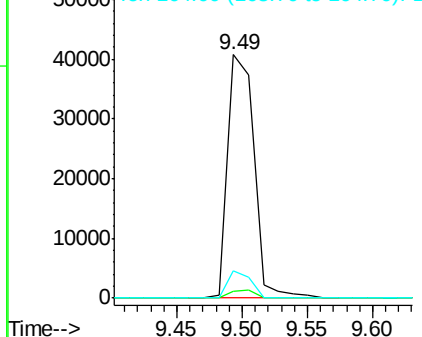


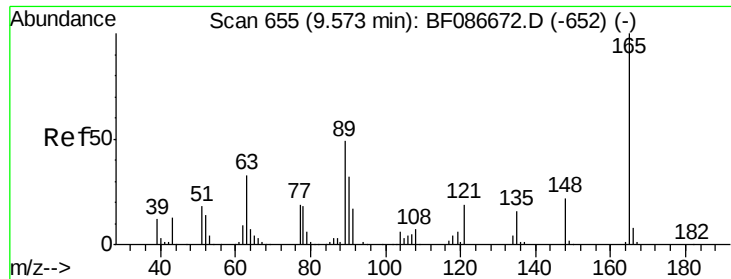
#49
 Dimethylphthalate
 Concen: 3.39 ng
 RT: 9.49 min Scan# 648
 Delta R.T. -0.01 min
 Lab File: BF086704.D
 Acq: 5 May 2016 4:16

Tgt Ion:163 Resp: 57161
 Ion Ratio Lower Upper
 163 100
 194 3.1 2.6 4.0
 164 11.3 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

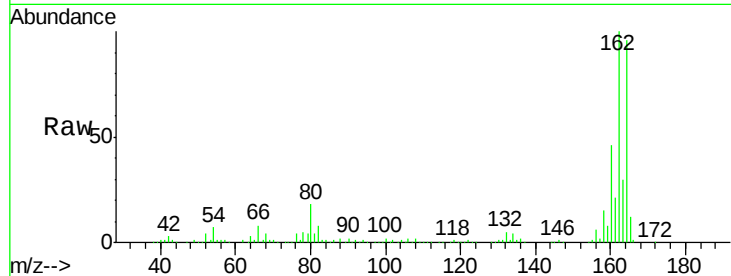




#50
 2,6-Dinitrotoluene
 Concen: 8.03 ng
 RT: 9.78 min Scan# 673
 Delta R.T. 0.21 min
 Lab File: BF086704.D
 Acq: 5 May 2016 4:16

Instrument :
 BNA_F
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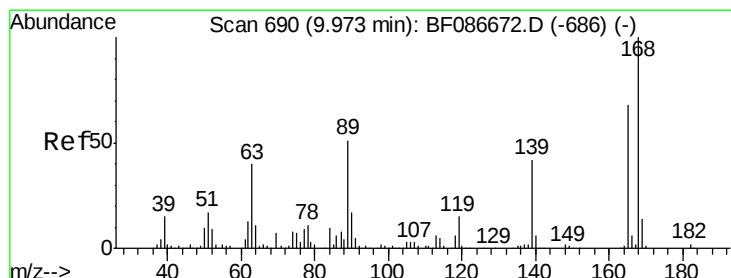
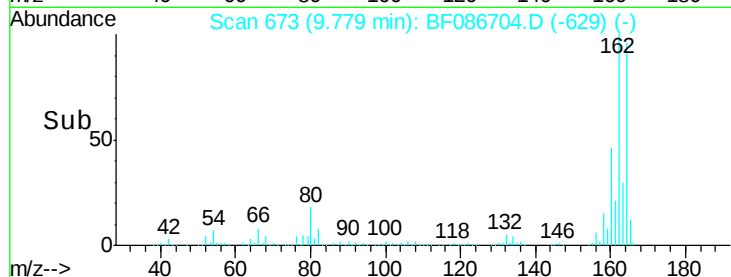
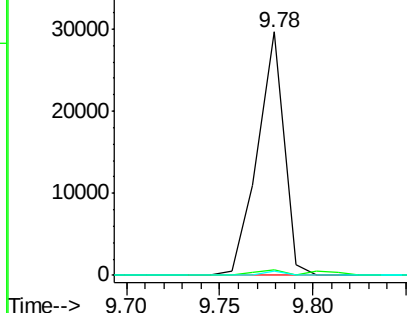
Tgt Ion	Ratio	Lower	Upper
165	100		
63	2.5	51.8	77.8#
89	1.9	50.7	76.1#



Abundance Ion 165.00 (164.70 to 165.70): E

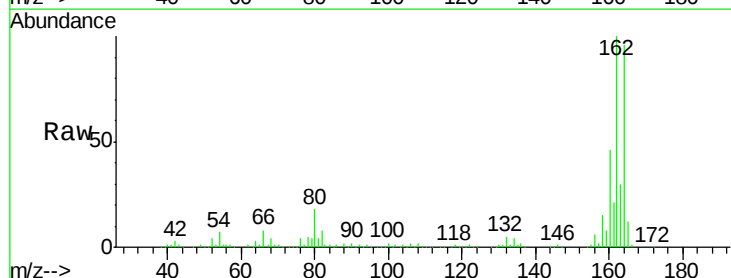
Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0



#56
 2,4-Dinitrotoluene
 Concen: 6.48 ng
 RT: 9.78 min Scan# 673
 Delta R.T. -0.19 min
 Lab File: BF086704.D
 Acq: 5 May 2016 4:16

Tgt Ion	Ratio	Lower	Upper
165	100		
63	2.5	44.3	66.5#
89	1.9	70.0	105.0#
182	0.0	1.8	2.6#

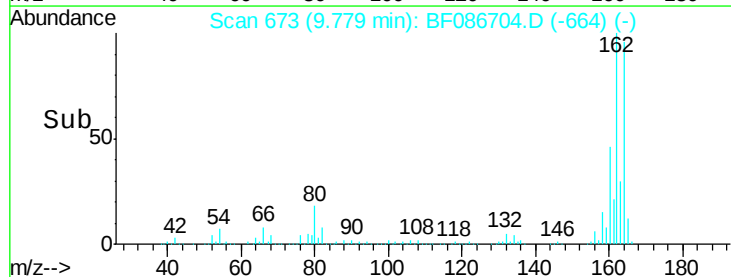
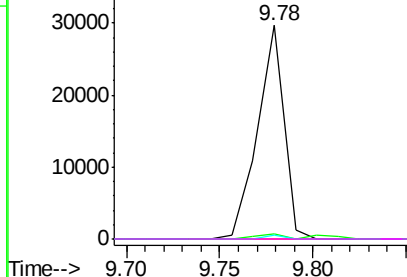


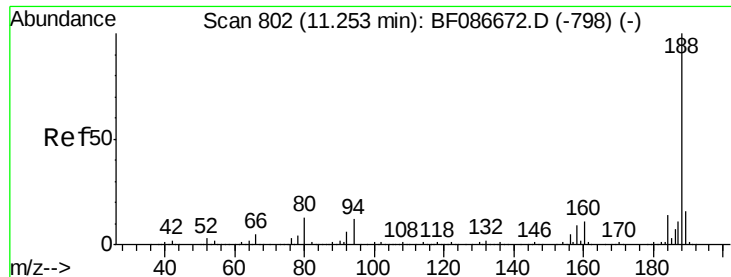
Abundance Ion 165.00 (164.70 to 165.70): E

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

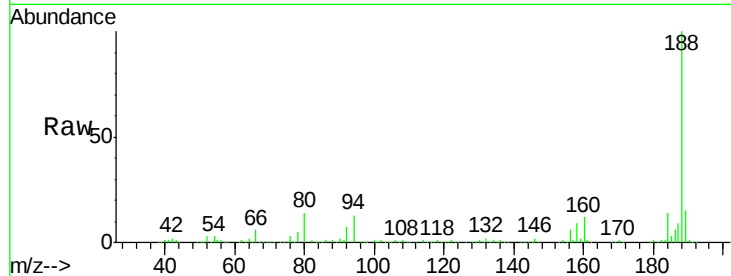




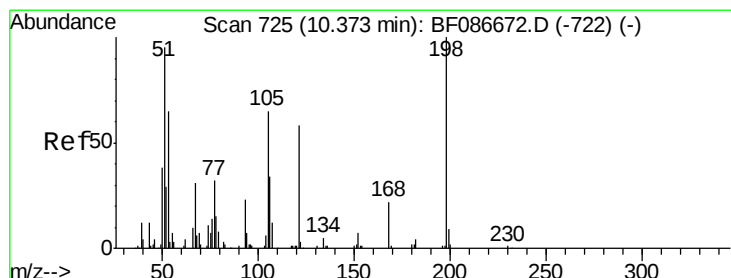
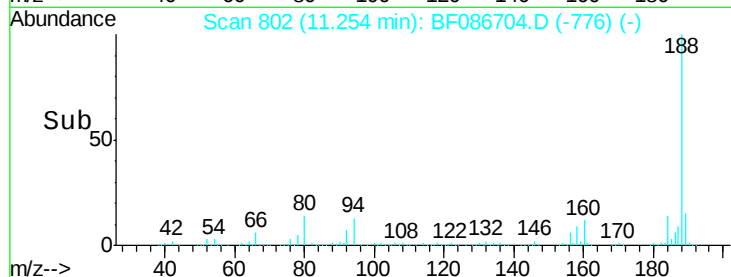
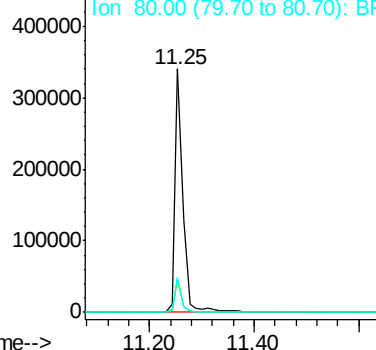
#63
Phenanthrene-d10
Concen: 40.00 ng
RT: 11.25 min Scan# 802
Delta R.T. 0.00 min
Lab File: BF086704.D
Acq: 5 May 2016 4:16

Instrument :
BNA_F
ClientSampleId :
EUT01-TD-B4(5-12)-C

Tgt Ion:188 Resp: 364570
Ion Ratio Lower Upper
188 100
94 13.2 6.8 10.2#
80 14.2 7.1 10.7#

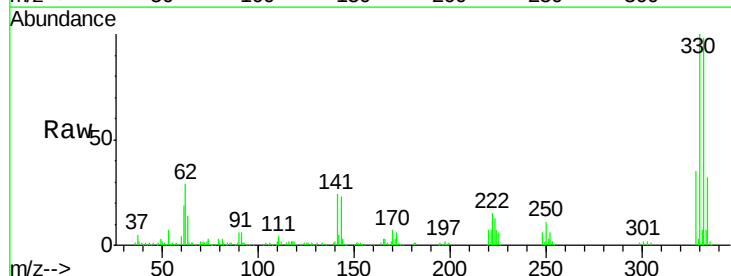


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0

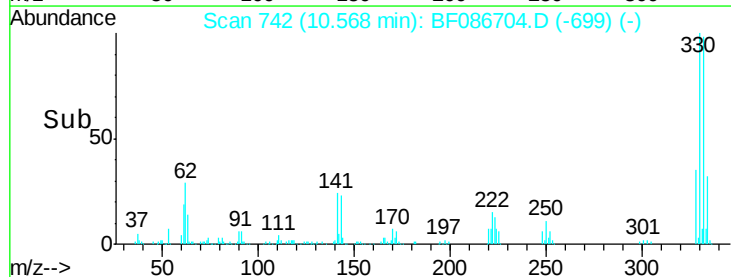
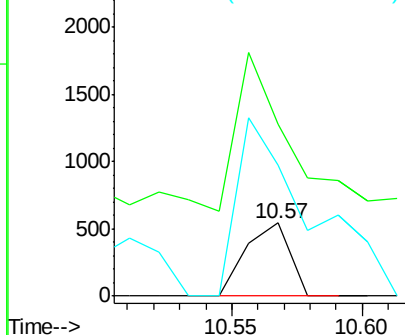


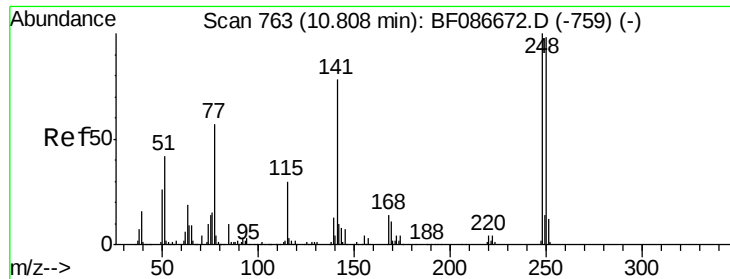
#64
4,6-Dinitro-2-methylphenol
Concen: 5.61 ng
RT: 10.57 min Scan# 742
Delta R.T. 0.19 min
Lab File: BF086704.D
Acq: 5 May 2016 4:16

Tgt Ion:198 Resp: 644
Ion Ratio Lower Upper
198 100
51 234.6 20.5 60.5#
105 178.7 24.5 64.5#



Abundance Ion 198.00 (197.70 to 198.70): E
Ion 51.00 (50.70 to 51.70): BF0
Ion 105.00 (104.70 to 105.70): E

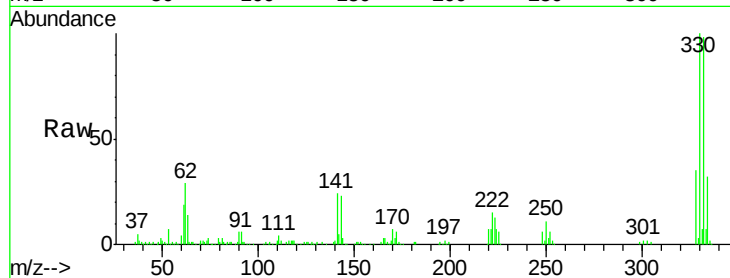




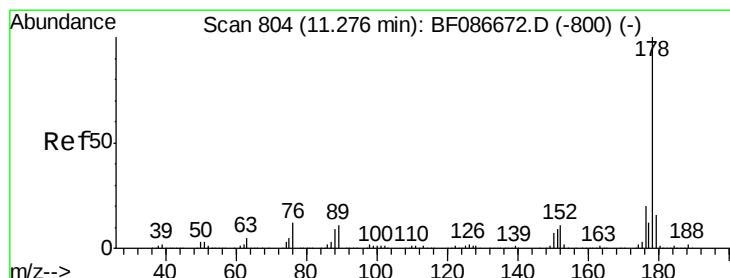
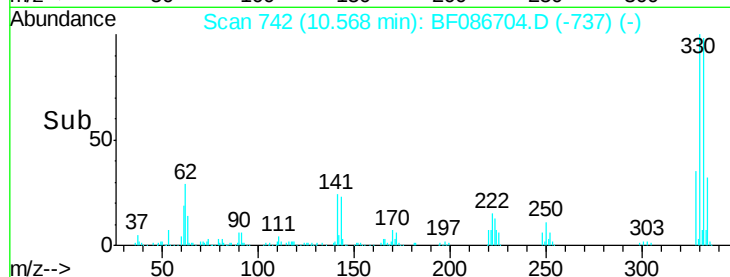
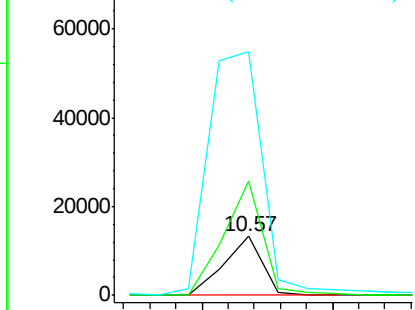
#66
 4-Bromophenyl-phenylether
 Concen: 3.76 ng
 RT: 10.57 min Scan# 742
 Delta R.T. -0.24 min
 Lab File: BF086704.D
 Acq: 5 May 2016 4:16

Instrument :
 BNA_F
 ClientSampleId :
 EUT01-TD-B4(5-12)-C

Tgt Ion:248 Resp: 13608
 Ion Ratio Lower Upper
 248 100
 250 193.6 78.6 117.8#
 141 413.8 76.0 114.0#

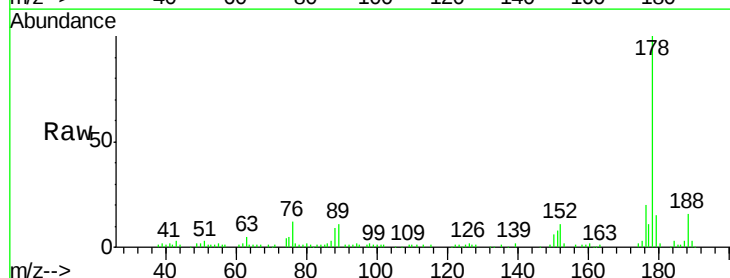


Abundance Ion 248.00 (247.70 to 248.70): E
 Ion 250.00 (249.70 to 250.70): E
 Ion 141.00 (140.70 to 141.70): E

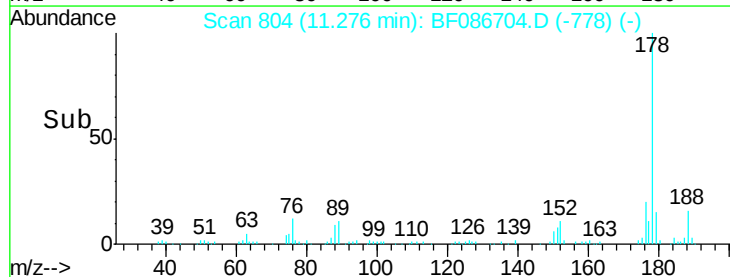
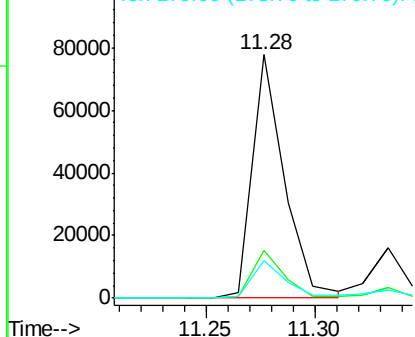


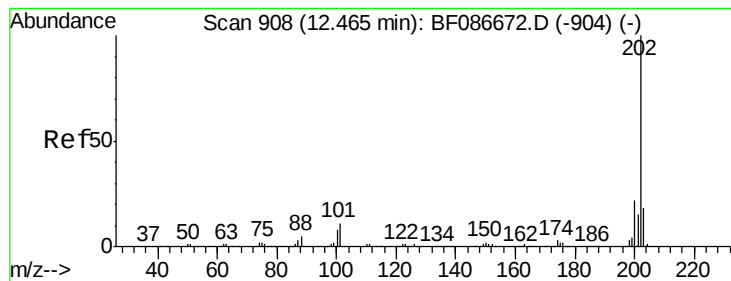
#70
 Phenanthrene
 Concen: 4.06 ng
 RT: 11.28 min Scan# 804
 Delta R.T. 0.00 min
 Lab File: BF086704.D
 Acq: 5 May 2016 4:16

Tgt Ion:178 Resp: 79513
 Ion Ratio Lower Upper
 178 100
 176 19.7 16.0 24.0
 179 15.2 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





#74

Fluoranthene

Concen: 6.32 ng

RT: 12.47 min Scan# 908

Delta R.T. 0.00 min

Lab File: BF086704.D

Acq: 5 May 2016 4:16

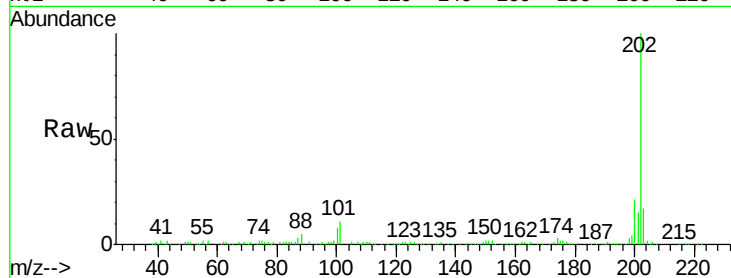
Instrument :

BNA_F

ClientSampleId :

EUT01-TD-B4(5-12)-C

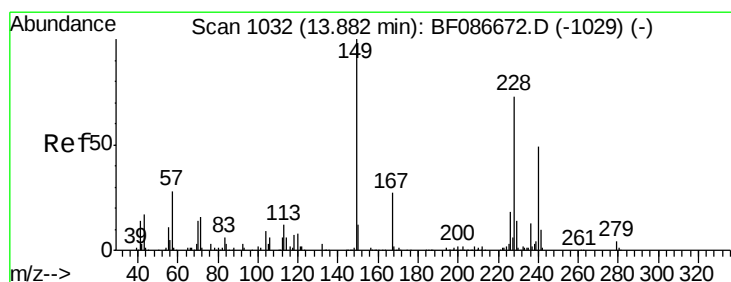
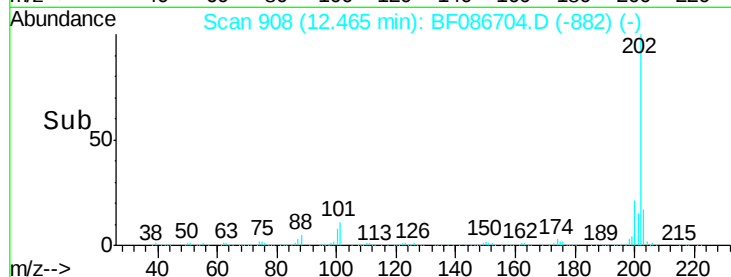
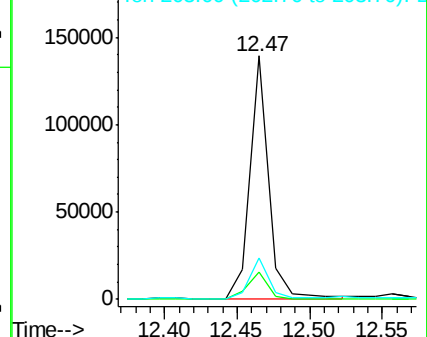
Tgt Ion:	202	Resp:	124007
Ion	Ratio	Lower	Upper
202	100		
101	11.5	0.0	35.4
203	16.8	0.0	38.1



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: 40.00 ng

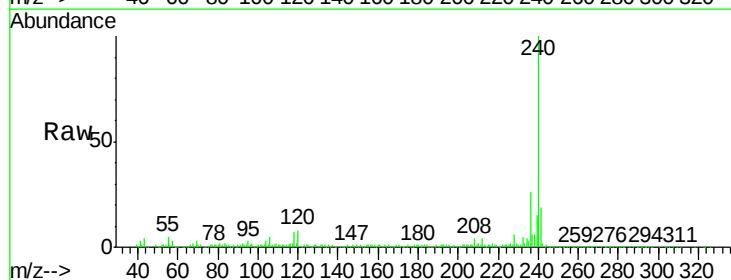
RT: 13.89 min Scan# 1033

Delta R.T. 0.01 min

Lab File: BF086704.D

Acq: 5 May 2016 4:16

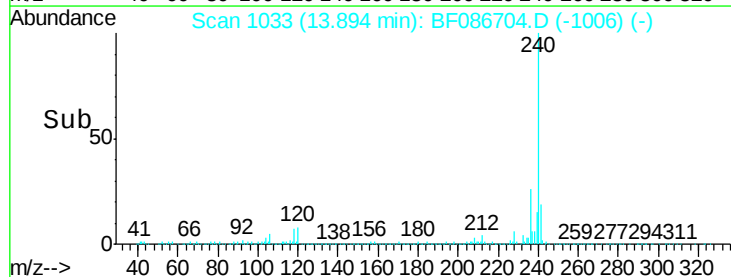
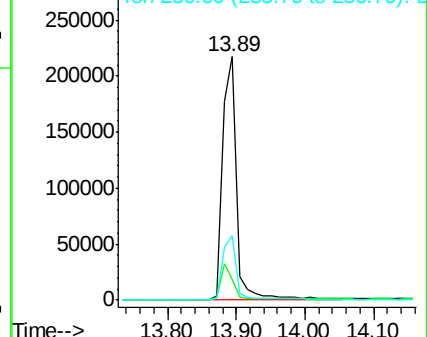
Tgt Ion:	240	Resp:	312643
Ion	Ratio	Lower	Upper
240	100		
120	8.4	11.2	16.8#
236	26.4	21.2	31.8

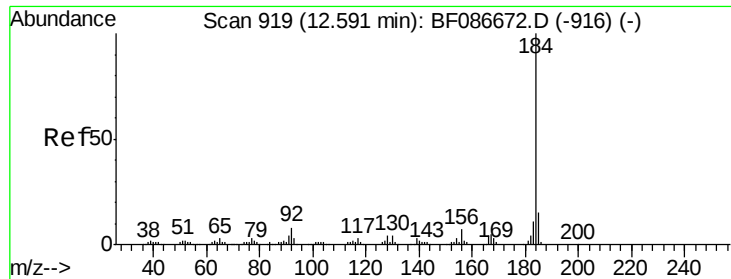


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#76

Benzidine

Concen: 8.42 ng

RT: 12.84 min Scan# 941

Delta R.T. 0.25 min

Lab File: BF086704.D

Acq: 5 May 2016 4:16

Instrument :

BNA_F

ClientSampleId :

EUT01-TD-B4(5-12)-C

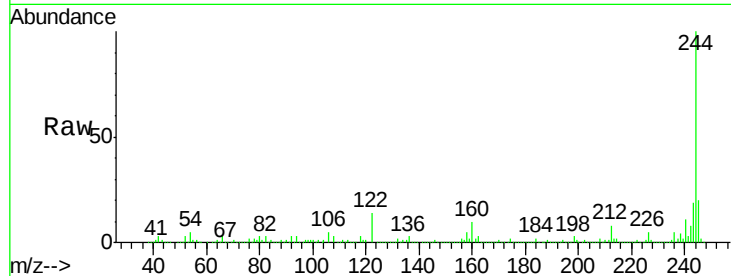
Tgt Ion:184 Resp: 13344

Ion Ratio Lower Upper

184 100

185 18.7 13.6 20.4

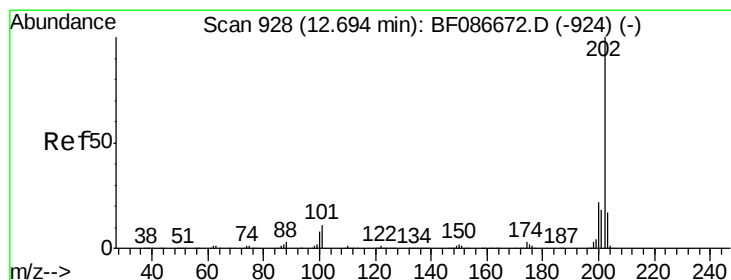
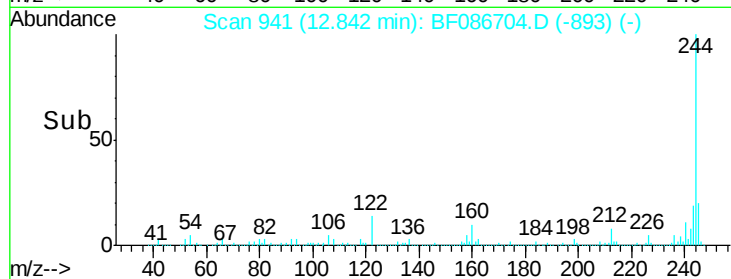
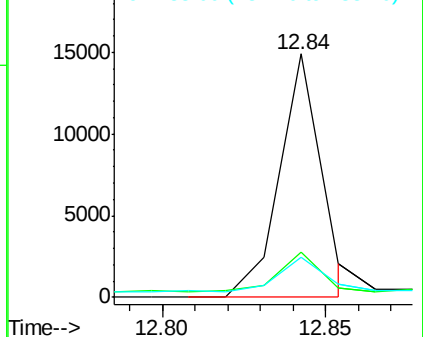
183 16.6 9.8 14.6#



Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E



#77

Pyrene

Concen: 5.15 ng

RT: 12.69 min Scan# 928

Delta R.T. 0.00 min

Lab File: BF086704.D

Acq: 5 May 2016 4:16

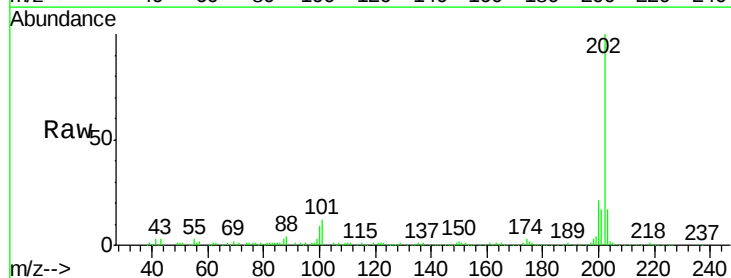
Tgt Ion:202 Resp: 128404

Ion Ratio Lower Upper

202 100

200 20.8 17.7 26.5

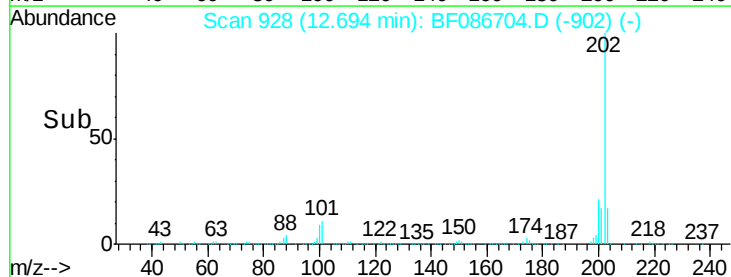
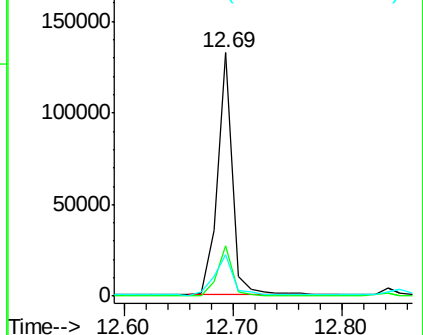
203 17.1 14.2 21.4

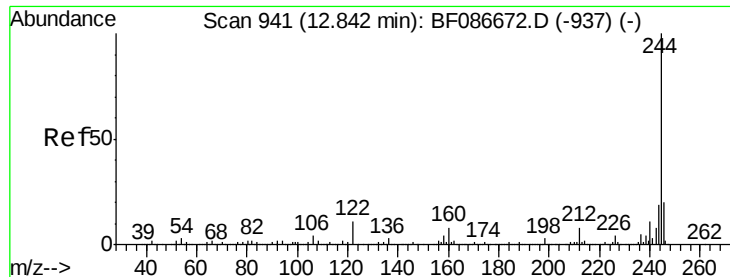


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

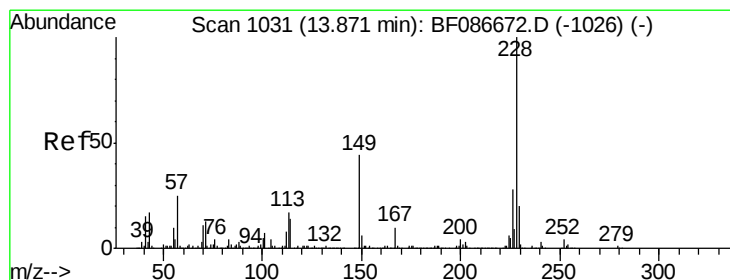
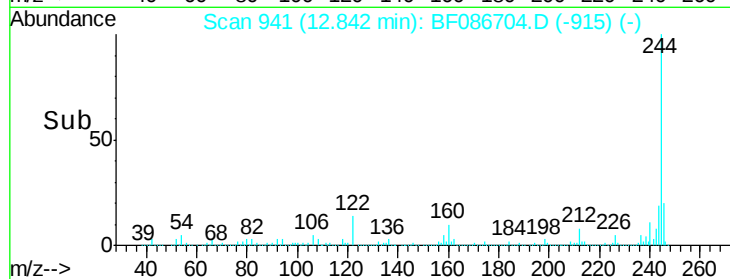
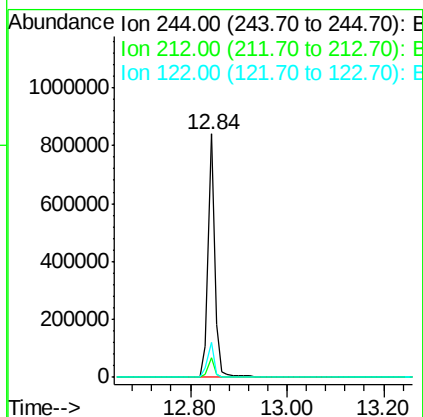
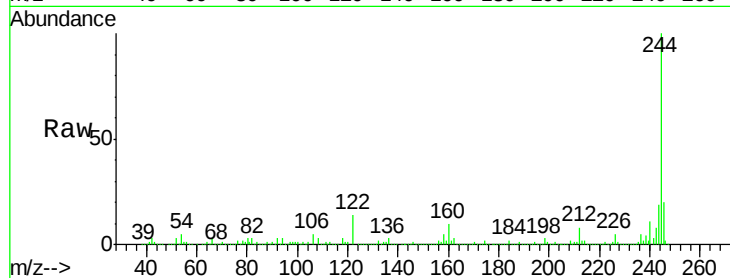




#78
 Terphenyl-d14
 Concen: 53.64 ng
 RT: 12.84 min Scan# 941
 Delta R.T. 0.00 min
 Lab File: BF086704.D
 Acq: 5 May 2016 4:16

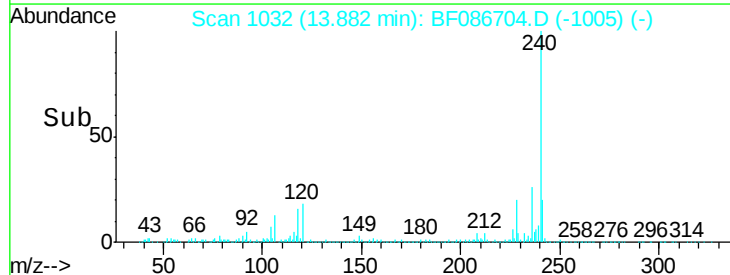
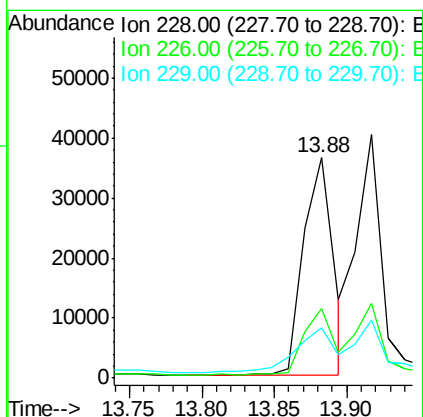
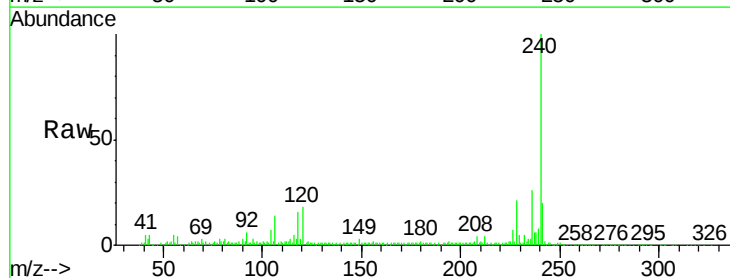
Instrument :
 BNA_F
 ClientSampleId :
 EUT01-TD-B4(5-12)-C

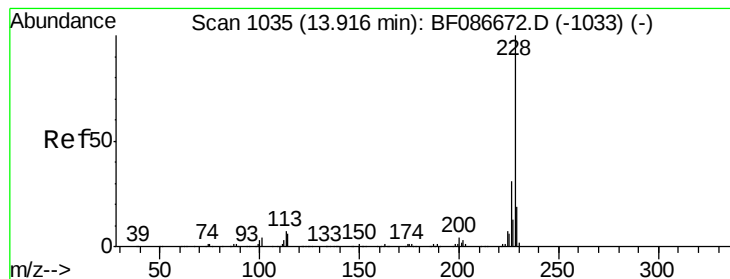
Tgt Ion:244 Resp: 829786
 Ion Ratio Lower Upper
 244 100
 212 8.1 6.2 9.2
 122 14.5 12.0 18.0



#80
 Benzo(a)anthracene
 Concen: 2.90 ng
 RT: 13.88 min Scan# 1032
 Delta R.T. 0.01 min
 Lab File: BF086704.D
 Acq: 5 May 2016 4:16

Tgt Ion:228 Resp: 51300
 Ion Ratio Lower Upper
 228 100
 226 31.5 22.5 33.7
 229 23.0 16.6 25.0





#82

Chrysene

Concen: 2.72 ng

RT: 13.88 min Scan# 1032

Delta R.T. -0.03 min

Lab File: BF086704.D

Acq: 5 May 2016 4:16

Instrument :

BNA_F

ClientSampleId :

EUT01-TD-B4(5-12)-C

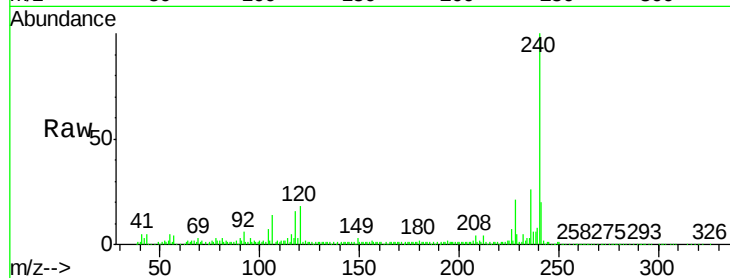
Tgt Ion:228 Resp: 51300

Ion Ratio Lower Upper

228 100

226 31.5 24.4 36.6

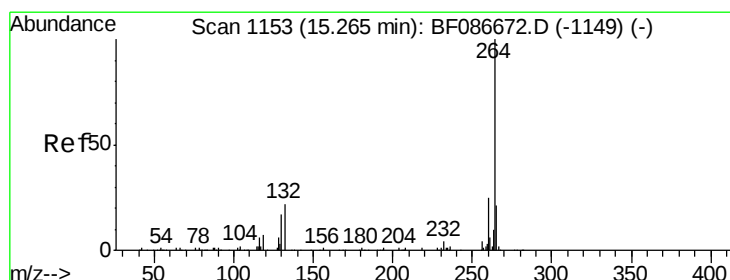
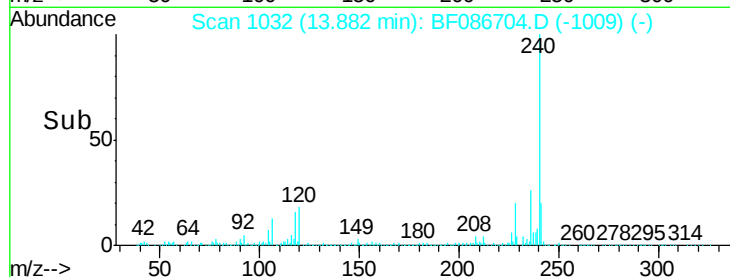
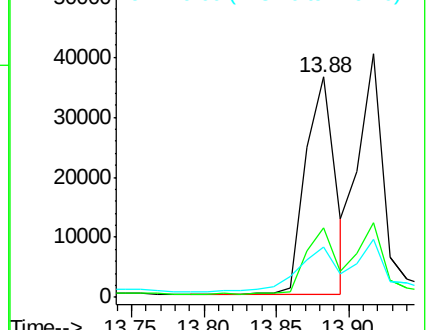
229 23.0 15.8 23.8



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



#86

Perylene-d12

Concen: 40.00 ng

RT: 15.28 min Scan# 1154

Delta R.T. 0.01 min

Lab File: BF086704.D

Acq: 5 May 2016 4:16

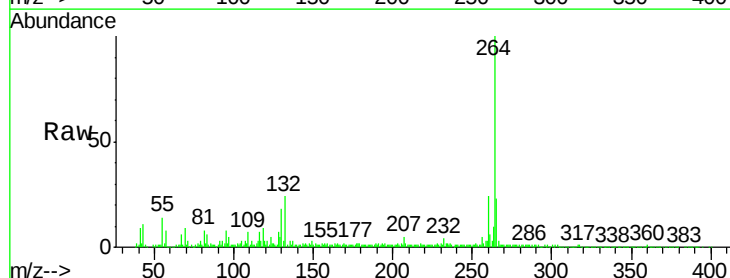
Tgt Ion:264 Resp: 213642

Ion Ratio Lower Upper

264 100

260 24.3 19.5 29.3

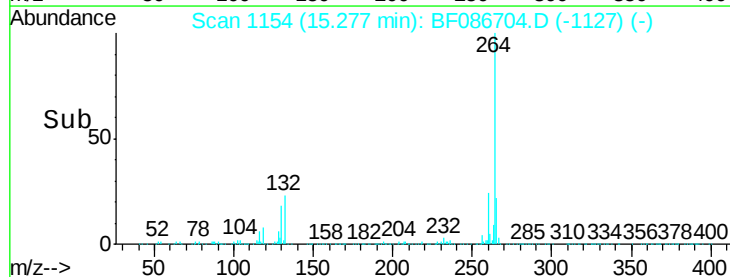
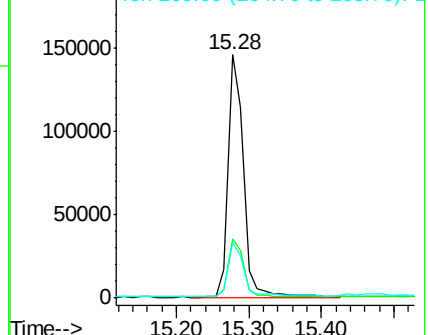
265 22.7 17.3 25.9

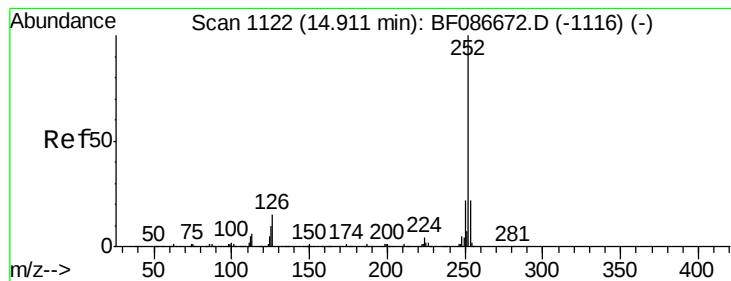


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 5.05 ng

RT: 14.89 min Scan# 1120

Delta R.T. 0.00 min

Lab File: BF086704.D

Acq: 5 May 2016 4:16

Instrument :

BNA_F

ClientSampleId :

EUT01-TD-B4(5-12)-C

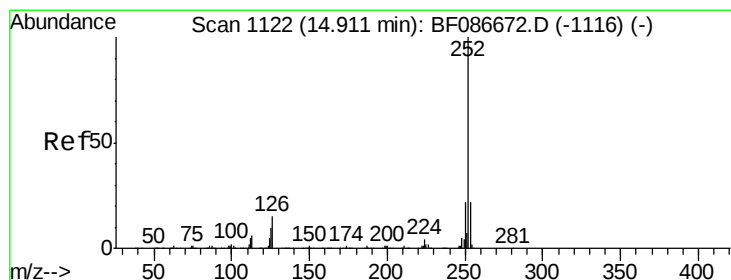
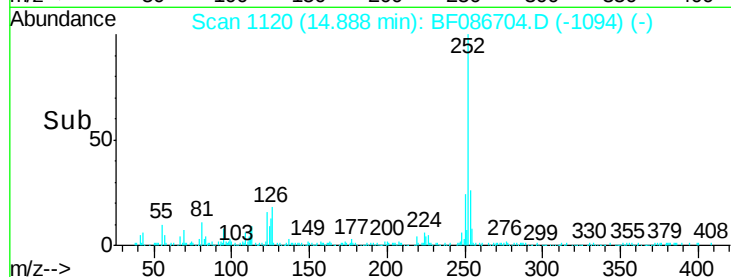
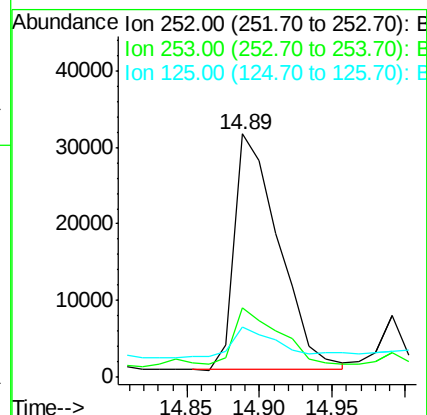
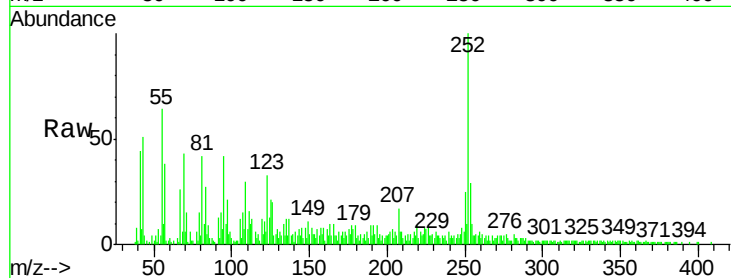
Tgt Ion:252 Resp: 64866

Ion Ratio Lower Upper

252 100

253 28.7 17.8 26.6#

125 20.8 11.4 17.0#



#88

Benzo(k)fluoranthene

Concen: 5.36 ng

RT: 14.89 min Scan# 1120

Delta R.T. -0.02 min

Lab File: BF086704.D

Acq: 5 May 2016 4:16

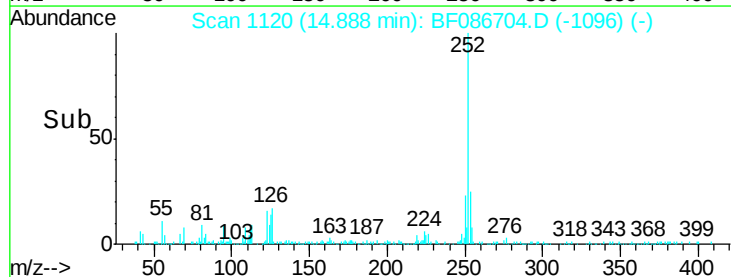
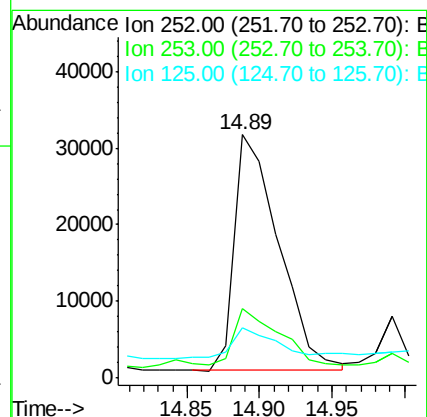
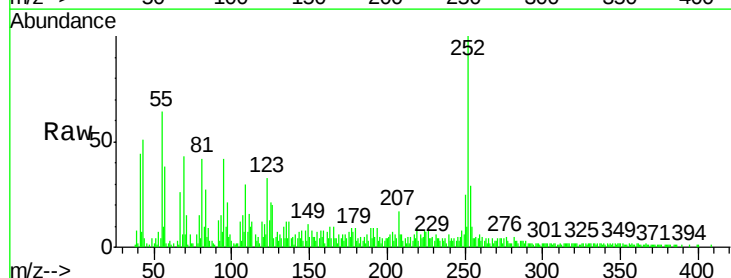
Tgt Ion:252 Resp: 64866

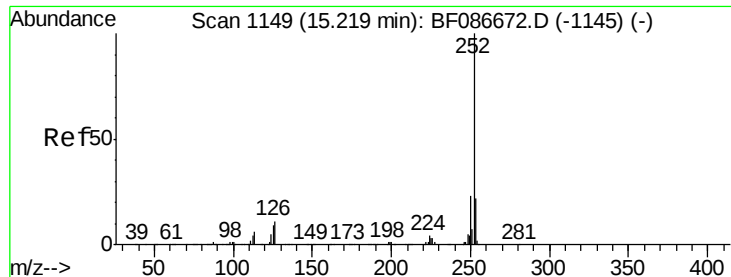
Ion Ratio Lower Upper

252 100

253 28.7 17.8 26.6#

125 20.8 9.1 13.7#





#89

Benzo(a)pyrene

Concen: 2.90 ng

RT: 15.22 min Scan# 1149

Delta R.T. 0.00 min

Lab File: BF086704.D

Acq: 5 May 2016 4:16

Instrument :

BNA_F

ClientSampleId :

EUT01-TD-B4(5-12)-C

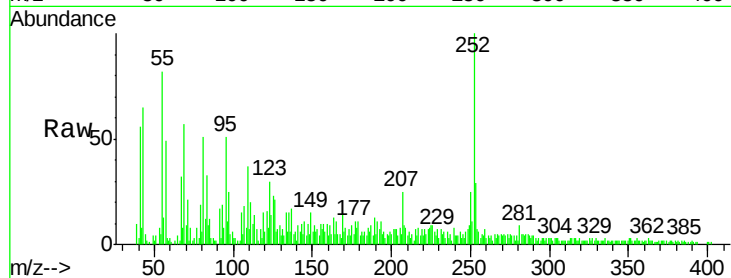
Tgt Ion:252 Resp: 34270

Ion Ratio Lower Upper

252 100

253 28.9 17.2 25.8#

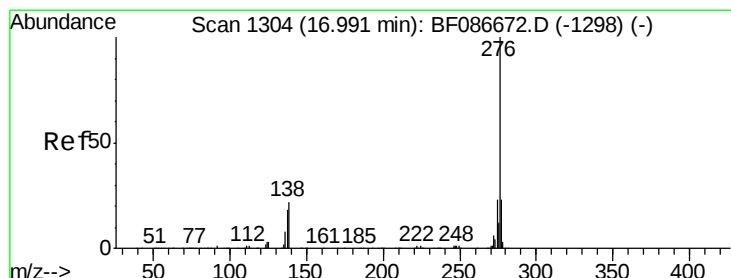
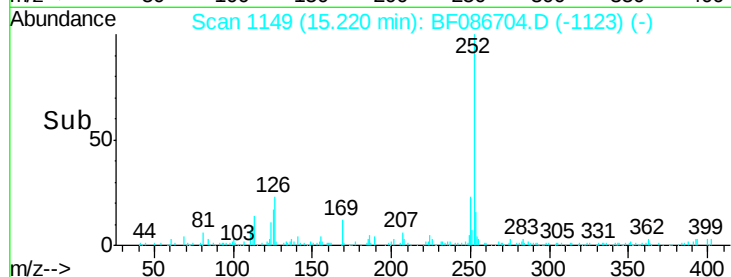
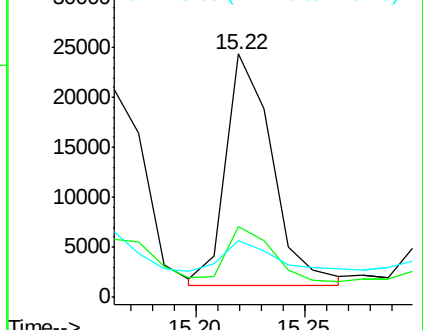
125 23.2 9.0 13.6#



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



#91

Benzo(g,h,i)perylene

Concen: 2.17 ng

RT: 17.00 min Scan# 1305

Delta R.T. 0.01 min

Lab File: BF086704.D

Acq: 5 May 2016 4:16

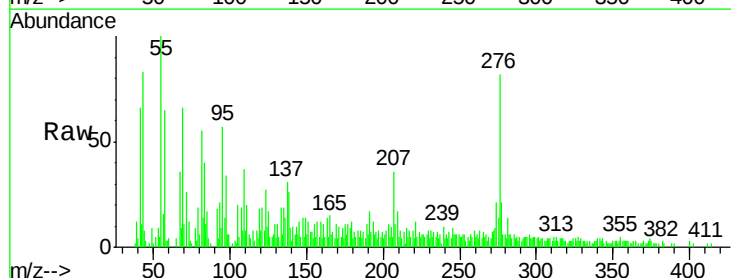
Tgt Ion:276 Resp: 25824

Ion Ratio Lower Upper

276 100

277 26.2 19.6 29.4

138 31.6 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

