

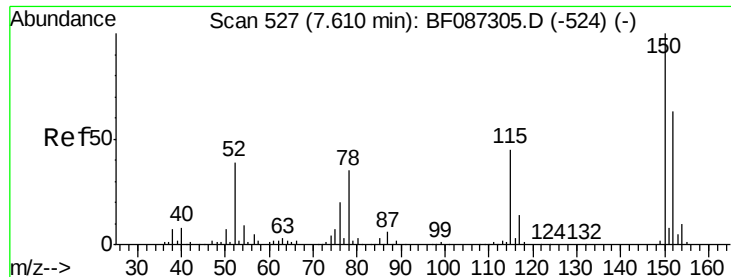
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF052516\
 Data File : BF087374.D
 Acq On : 25 May 2016 16:10
 Operator : UM/SJ
 Sample : H3218-02
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 E-3(13-15)

Quant Time: May 25 22:29:05 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF052316.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 25 16:26:52 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.52	152	105591	20.00	ng	0.00
21) Naphthalene-d8	9.55	136	429923	20.00	ng	0.00
38) Acenaphthene-d10	12.38	164	192123	20.00	ng	-0.01
63) Phenanthrene-d10	14.78	188	324168	20.00	ng	0.00
75) Chrysene-d12	18.47	240	227713	20.00	ng	-0.01
86) Perylene-d12	20.14	264	211781	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.43	112	930878	154.91	ng	0.01
7) Phenol-d6	7.06	99	1168726	143.94	ng	-0.01
23) Nitrobenzene-d5	8.43	82	754807	88.48	ng	-0.01
41) 2,4,6-Tribromophenol	13.67	330	221630	120.04	ng	-0.01
44) 2-Fluorobiphenyl	11.32	172	968340	71.06	ng	-0.01
78) Terphenyl-d14	17.13	244	635063	59.29	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	1.64	88	116978	36.89	ng	# 22
6) Aniline	7.03	93	35742	3.40	ng	97
15) Benzyl Alcohol	7.75	79	15178	2.56	ng	# 46
22) Acetophenone	8.16	105	25672	2.50	ng	# 55
25) Isophorone	8.98	82	30709	2.01	ng	# 70
31) Naphthalene	9.59	128	537852	24.97	ng	100
32) Benzoic acid	9.48	122	236	5.89	ng	# 1
35) Caprolactam	10.40	113	5718	3.40	ng	# 1
37) 2-Methylnaphthalene	10.71	142	87241	6.48	ng	# 94
49) Dimethylphthalate	12.02	163	201222	13.07	ng	99
70) Phenanthrene	14.81	178	76648	4.27	ng	99
71) Anthracene	14.81	178	76648	4.23	ng	99
74) Fluoranthene	16.57	202	75662	4.20	ng	95
77) Pyrene	16.88	202	79580	4.86	ng	97
80) Benzo(a)anthracene	18.46	228	46924	3.62	ng	# 93
82) Chrysene	18.50	228	46059	3.58	ng	# 89
87) Benzo(b)fluoranthene	19.74	252	53026	3.93	ng	# 91
88) Benzo(k)fluoranthene	19.74	252	53026	4.57	ng	# 89
89) Benzo(a)pyrene	20.09	252	29171	2.50	ng	# 80

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



#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 7.52 min Scan# 519

Delta R.T. 0.00 min

Lab File: BF087374.D

Acq: 25 May 2016 16:10

Instrument :

BNA_F

ClientSampleId :

E-3(13-15)

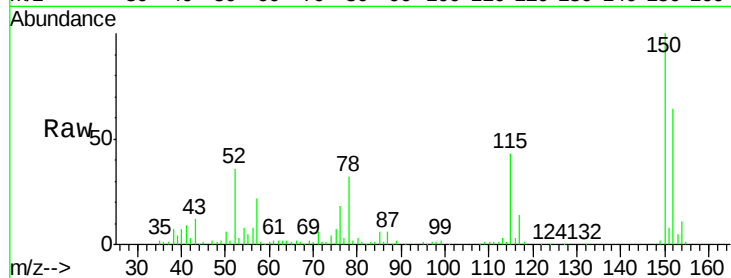
Tgt Ion:152 Resp: 105591

Ion Ratio Lower Upper

152 100

150 157.0 125.8 188.6

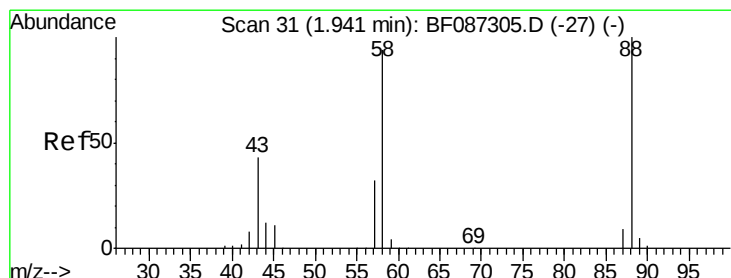
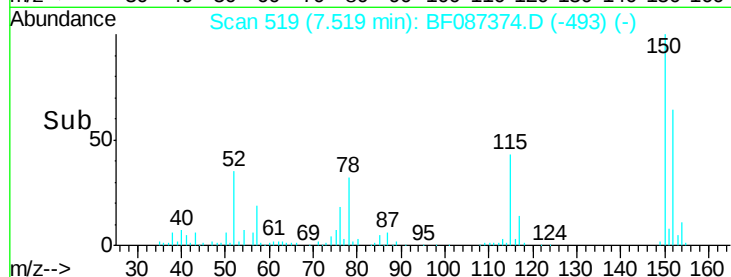
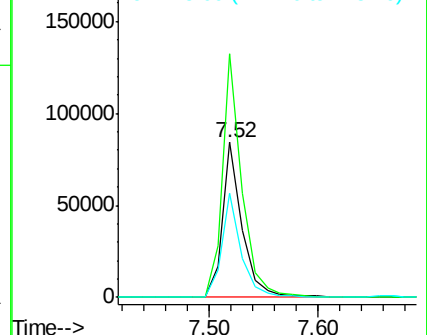
115 67.5 51.5 77.3



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



#2

1,4-Dioxane

Concen: 36.89 ng

RT: 1.64 min Scan# 5

Delta R.T. -0.17 min

Lab File: BF087374.D

Acq: 25 May 2016 16:10

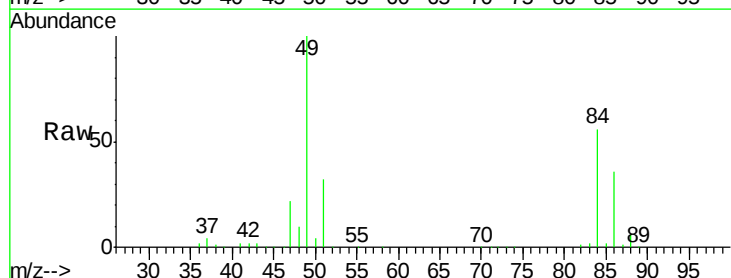
Tgt Ion: 88 Resp: 116978

Ion Ratio Lower Upper

88 100

58 0.0 59.6 89.4#

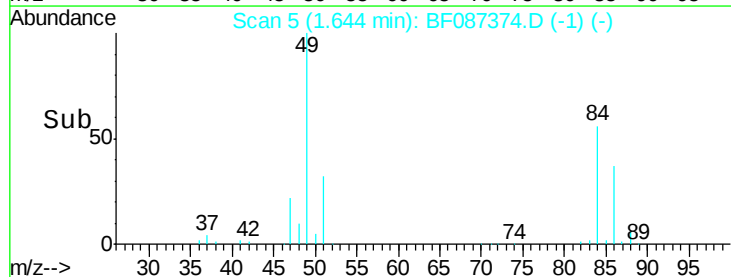
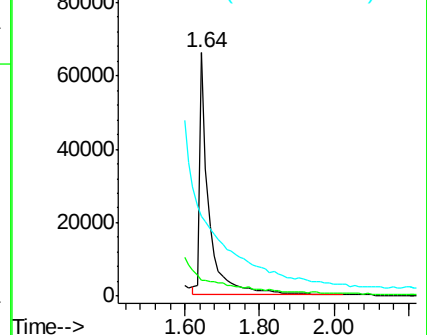
43 0.0 21.8 32.6#

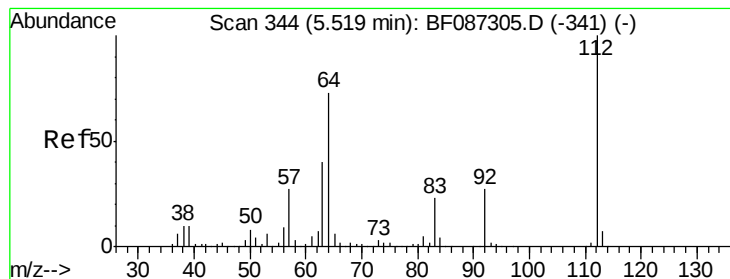


Abundance Ion 88.00 (87.70 to 88.70): BF0

Ion 58.00 (57.70 to 58.70): BF0

Ion 43.00 (42.70 to 43.70): BF0





#5

2-Fluorophenol

Concen: 154.91 ng

RT: 5.43 min Scan# 336

Delta R.T. 0.01 min

Lab File: BF087374.D

Acq: 25 May 2016 16:10

Instrument :

BNA_F

ClientSampleId :

E-3(13-15)

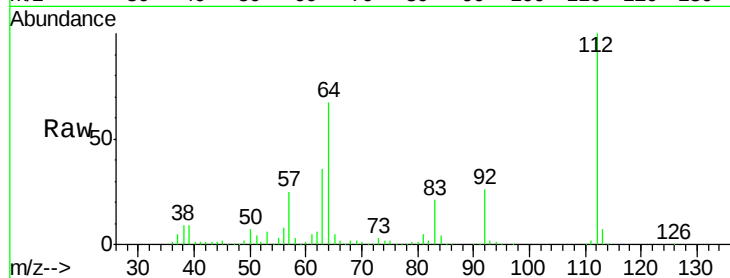
Tgt Ion: 112 Resp: 930878

Ion Ratio Lower Upper

112 100

64 67.1 52.1 78.1

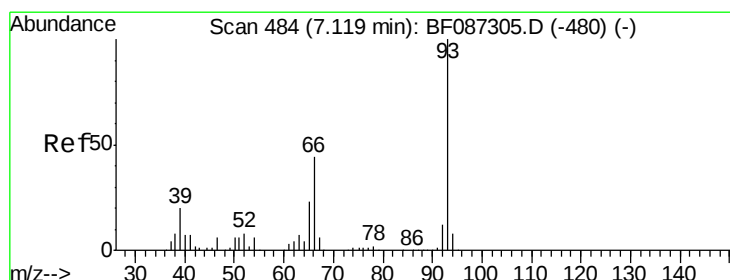
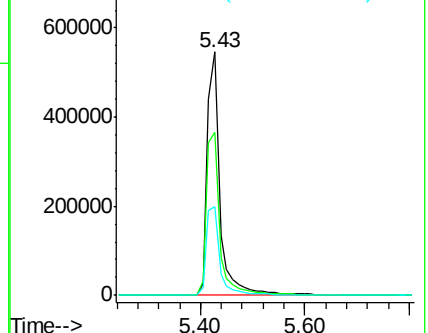
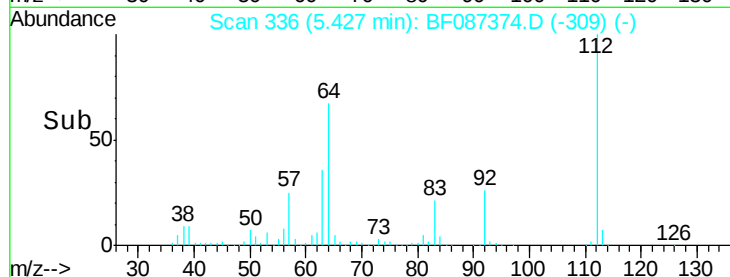
63 36.5 25.7 38.5



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



#6

Aniline

Concen: 3.40 ng

RT: 7.03 min Scan# 476

Delta R.T. 0.00 min

Lab File: BF087374.D

Acq: 25 May 2016 16:10

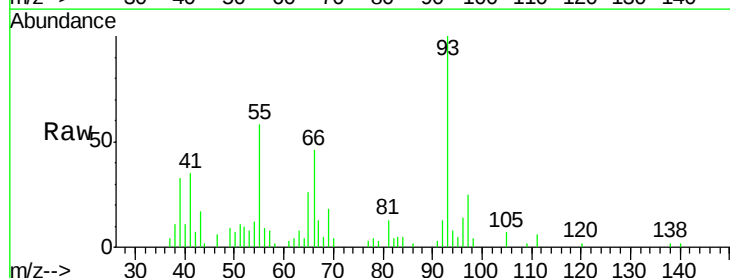
Tgt Ion: 93 Resp: 35742

Ion Ratio Lower Upper

93 100

66 45.8 39.0 58.6

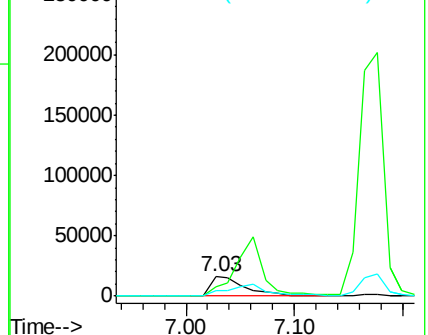
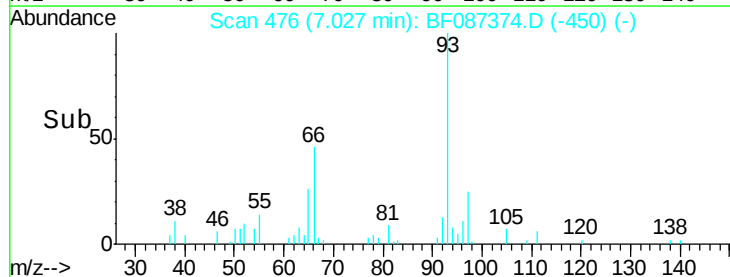
65 26.1 20.6 31.0

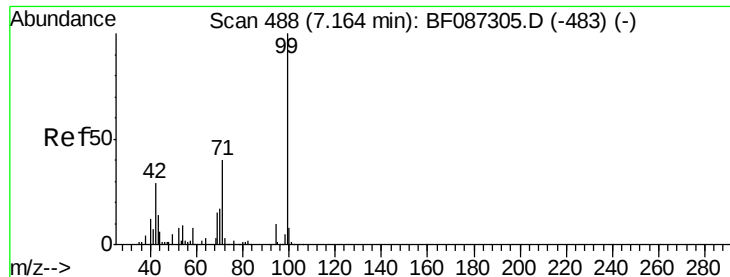


Abundance Ion 93.00 (92.70 to 93.70): BF0

Ion 66.00 (65.70 to 66.70): BF0

Ion 65.00 (64.70 to 65.70): BF0





#7

Phenol-d6

Concen: 143.94 ng

RT: 7.06 min Scan# 479

Delta R.T. -0.01 min

Lab File: BF087374.D

Acq: 25 May 2016 16:10

Instrument :

BNA_F

ClientSampleId :

E-3(13-15)

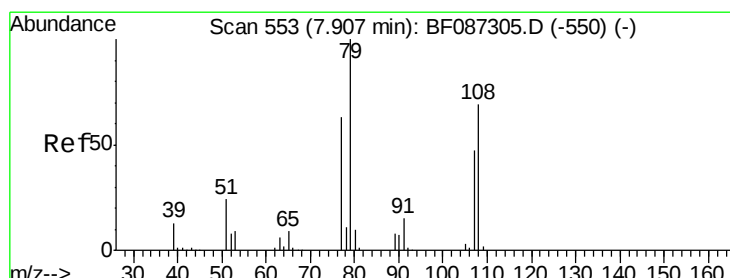
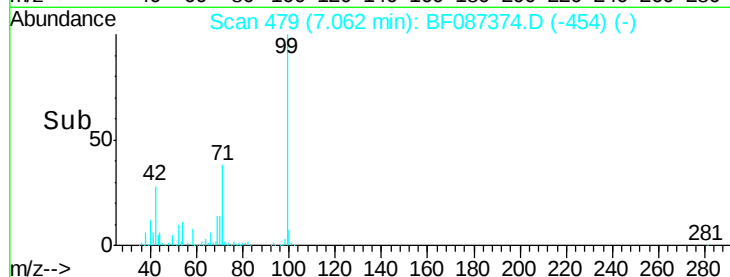
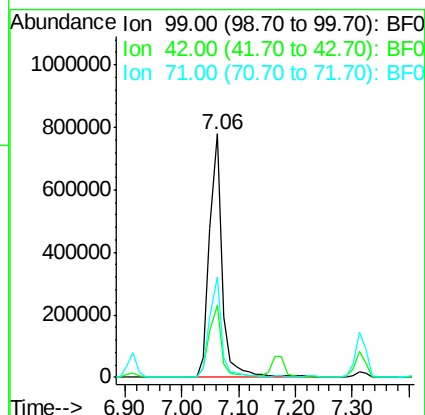
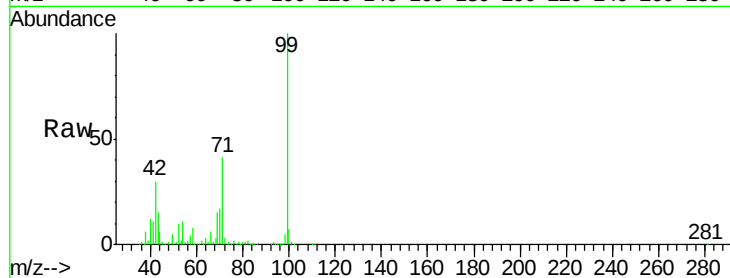
Tgt Ion: 99 Resp: 1168726

Ion Ratio Lower Upper

99 100

42 29.8 13.6 20.4#

71 40.9 24.6 36.8#



#15

Benzyl Alcohol

Concen: 2.56 ng

RT: 7.75 min Scan# 539

Delta R.T. -0.07 min

Lab File: BF087374.D

Acq: 25 May 2016 16:10

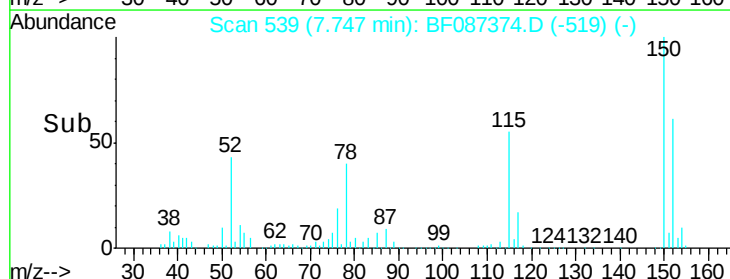
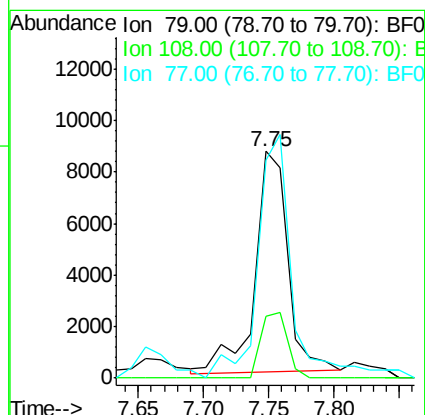
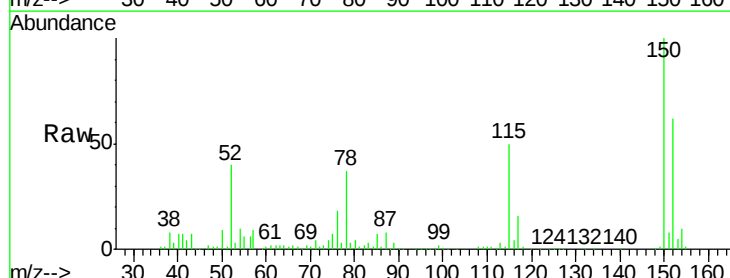
Tgt Ion: 79 Resp: 15178

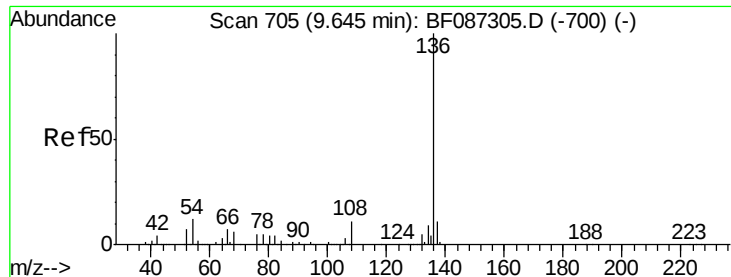
Ion Ratio Lower Upper

79 100

108 27.4 68.4 102.6#

77 96.2 50.6 76.0#





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 9.55 min Scan# 697

Delta R.T. 0.00 min

Lab File: BF087374.D

Acq: 25 May 2016 16:10

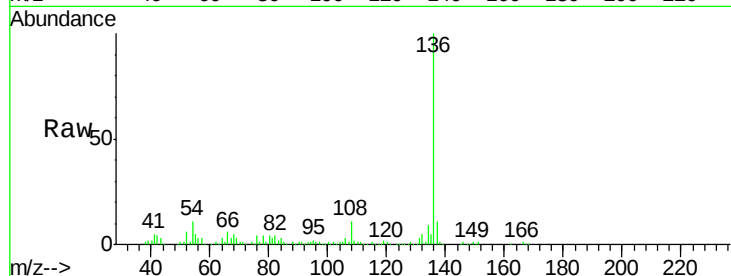
Instrument :

BNA_F

ClientSampleId :

E-3(13-15)

Tgt Ion:	136	Resp:	429923
Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.8	13.2
54	10.5	5.0	7.4#
68	5.4	4.4	6.6

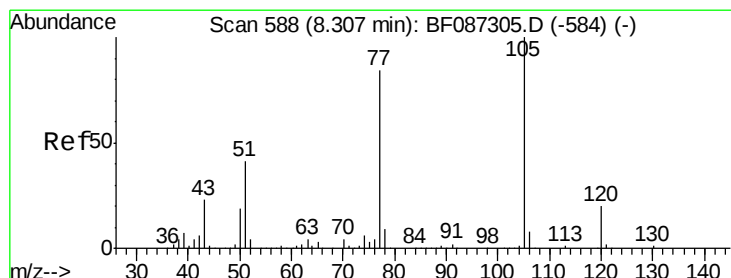
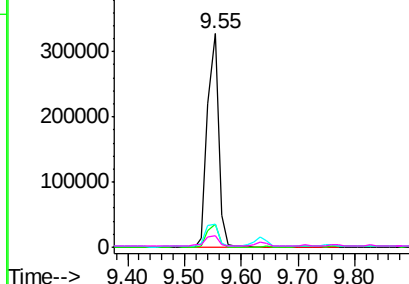
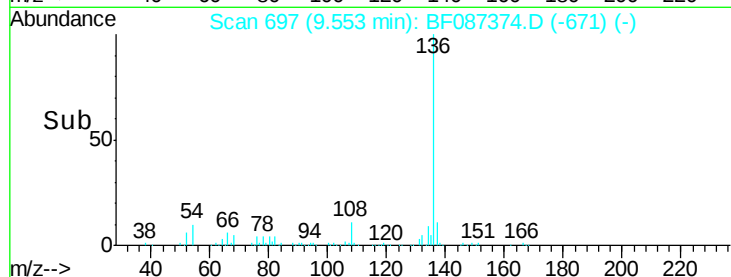


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0



#22

Acetophenone

Concen: 2.50 ng

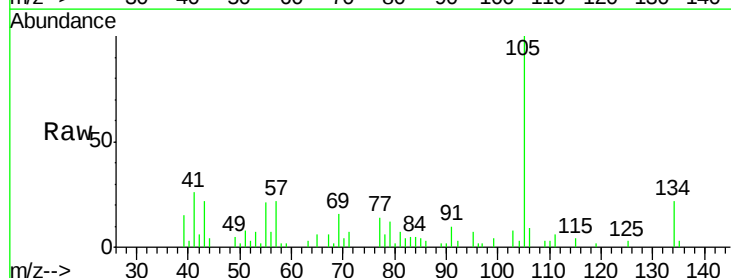
RT: 8.16 min Scan# 575

Delta R.T. -0.06 min

Lab File: BF087374.D

Acq: 25 May 2016 16:10

Tgt Ion:	105	Resp:	25672
Ion	Ratio	Lower	Upper
105	100		
71	6.9	4.8	7.2
51	8.4	32.6	49.0#
120	0.0	16.5	24.7#

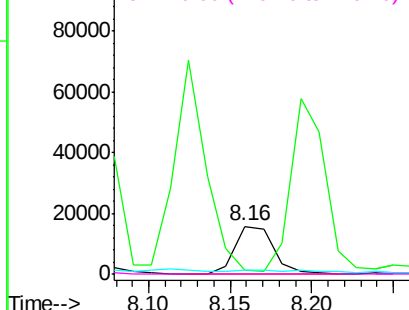
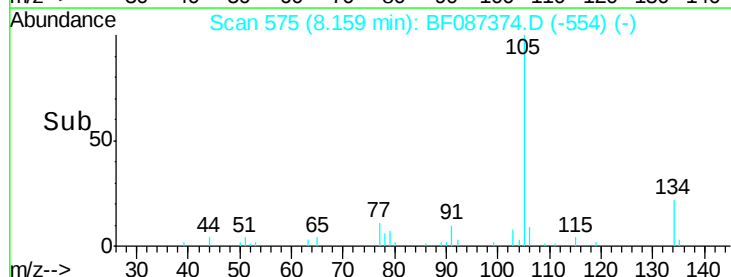


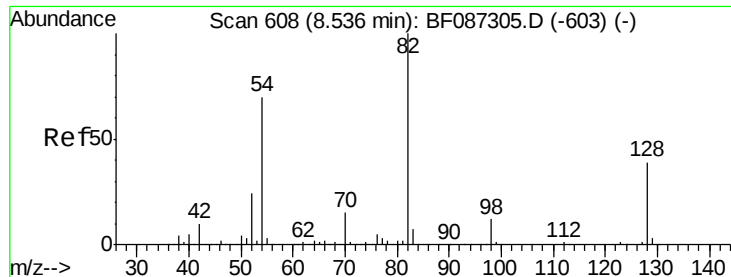
Abundance Ion 105.00 (104.70 to 105.70): E

Ion 71.00 (70.70 to 71.70): BF0

Ion 51.00 (50.70 to 51.70): BF0

Ion 120.00 (119.70 to 120.70): E





#23

Nitrobenzene-d5

Concen: 88.48 ng

RT: 8.43 min Scan# 599

Delta R.T. -0.01 min

Lab File: BF087374.D

Acq: 25 May 2016 16:10

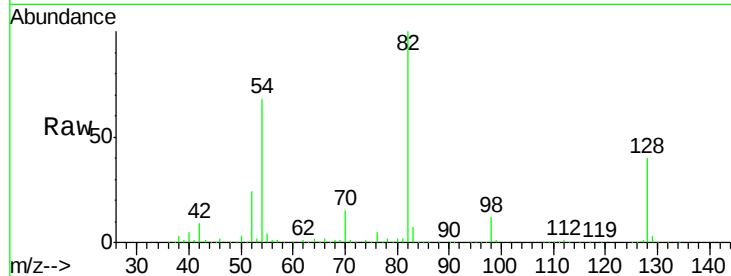
Instrument :

BNA_F

ClientSampleId :

E-3(13-15)

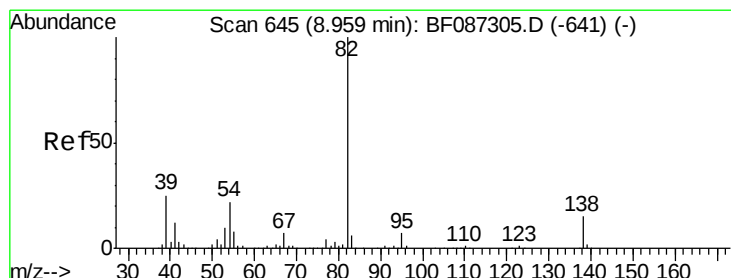
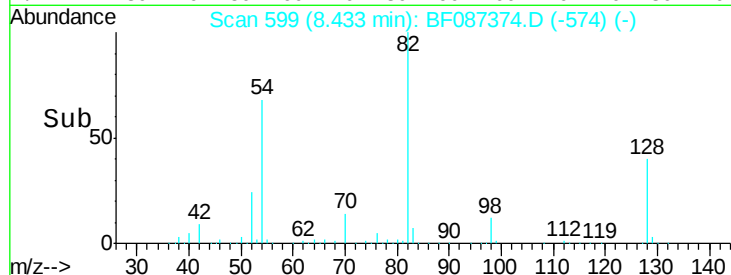
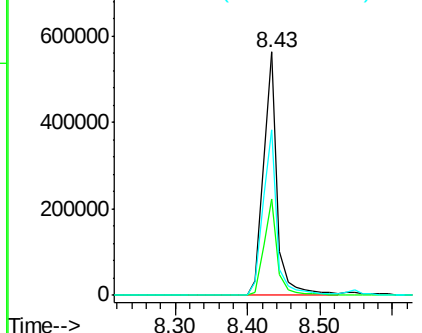
Tgt Ion:	82	Resp:	754807
Ion	Ratio	Lower	Upper
82	100		
128	39.5	40.6	61.0#
54	67.9	38.1	57.1#



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: 2.01 ng

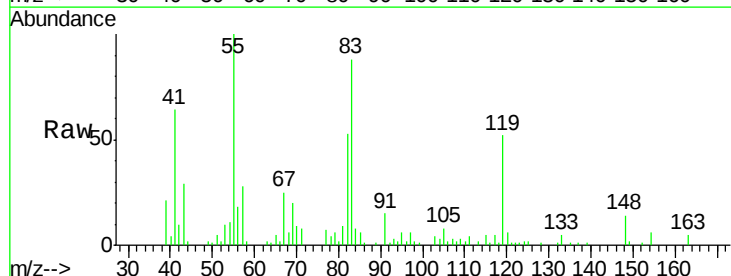
RT: 8.98 min Scan# 647

Delta R.T. 0.10 min

Lab File: BF087374.D

Acq: 25 May 2016 16:10

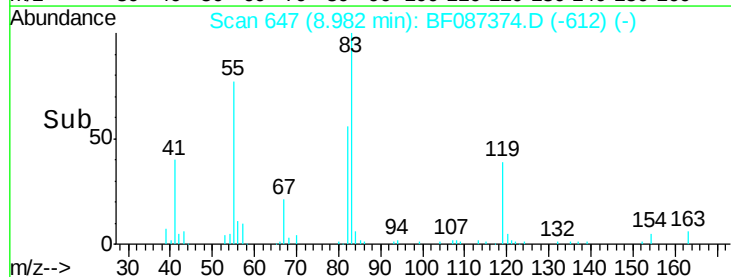
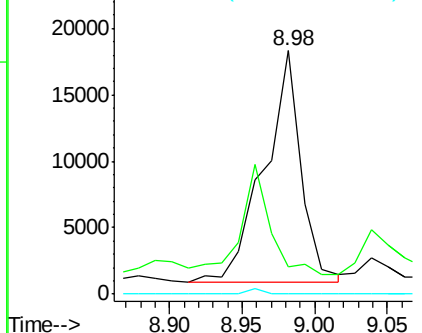
Tgt Ion:	82	Resp:	30709
Ion	Ratio	Lower	Upper
82	100		
95	11.5	5.1	7.7#
138	0.0	12.4	18.6#

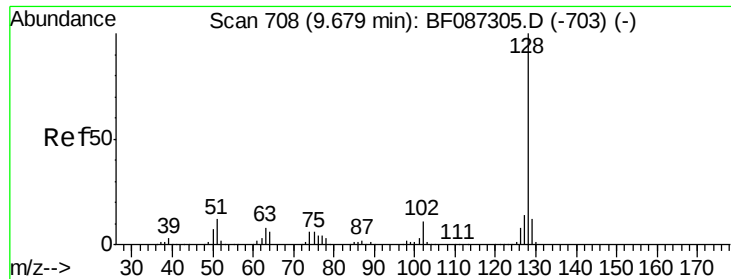


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 95.00 (94.70 to 95.70): BF0

Ion 138.00 (137.70 to 138.70): BF0

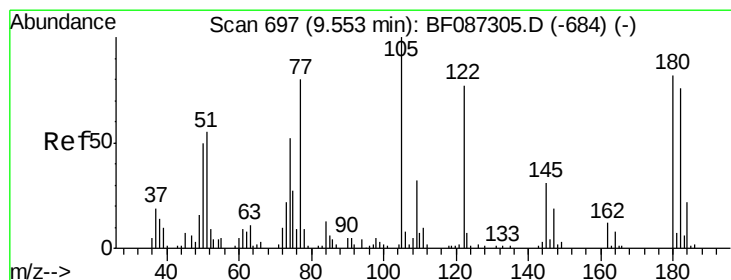
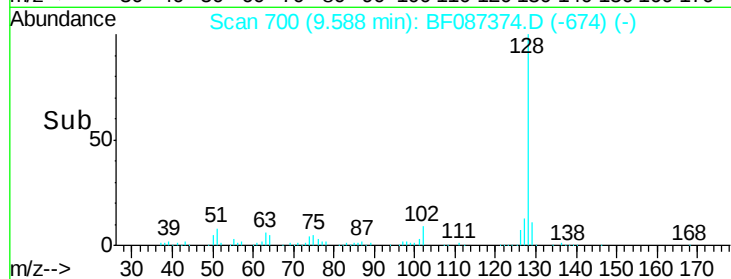
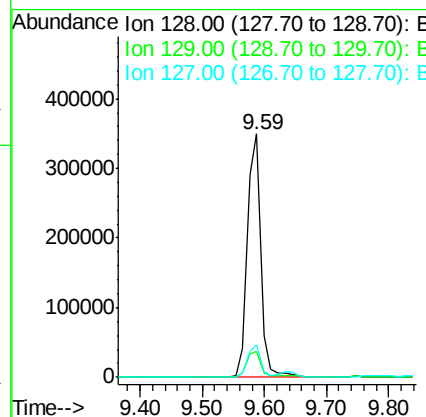
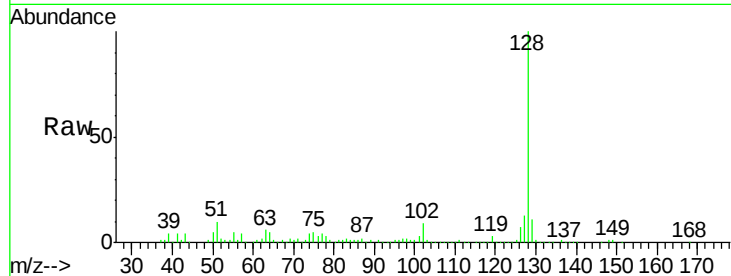




#31
Naphthalene
Concen: 24.97 ng
RT: 9.59 min Scan# 700
Delta R.T. 0.00 min
Lab File: BF087374.D
Acq: 25 May 2016 16:10

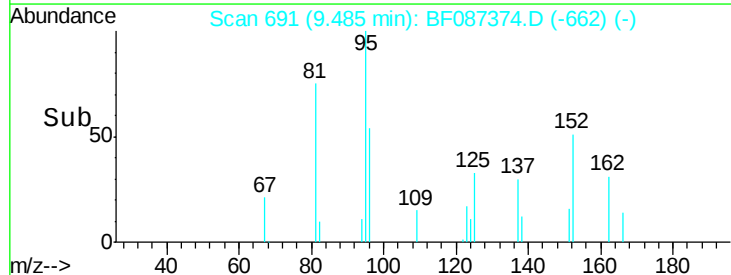
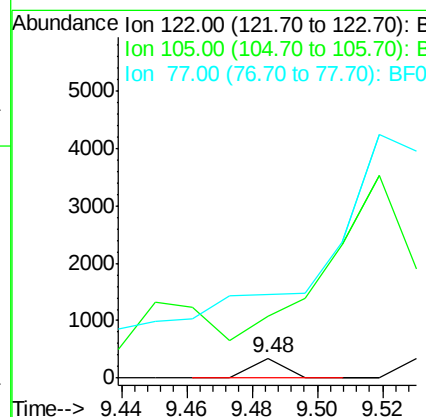
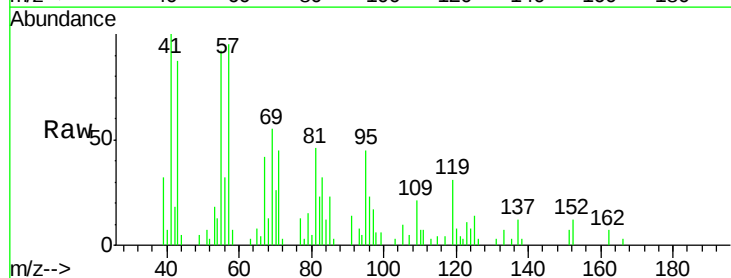
Instrument :
BNA_F
ClientSampleId :
E-3(13-15)

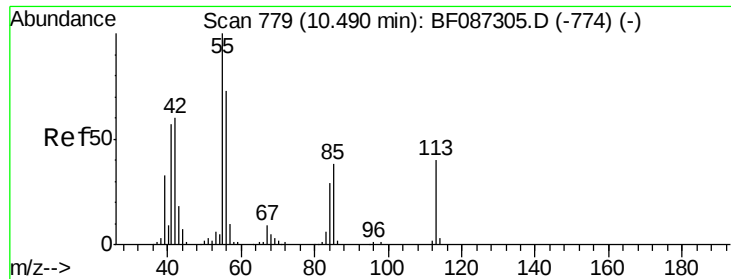
Tgt Ion:128 Resp: 537852
Ion Ratio Lower Upper
128 100
129 10.8 8.6 13.0
127 13.4 10.8 16.2



#32
Benzoic acid
Concen: 5.89 ng
RT: 9.48 min Scan# 691
Delta R.T. 0.03 min
Lab File: BF087374.D
Acq: 25 May 2016 16:10

Tgt Ion:122 Resp: 236
Ion Ratio Lower Upper
122 100
105 313.1 92.6 132.6#
77 426.5 60.0 100.0#





#35

Caprolactam

Concen: 3.40 ng

RT: 10.40 min Scan# 771

Delta R.T. 0.01 min

Lab File: BF087374.D

Acq: 25 May 2016 16:10

Instrument :

BNA_F

ClientSampleId :

E-3(13-15)

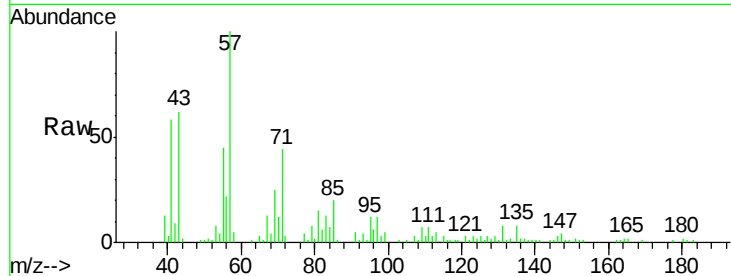
Tgt Ion:113 Resp: 5718

Ion Ratio Lower Upper

113 100

55 898.4 162.0 202.0#

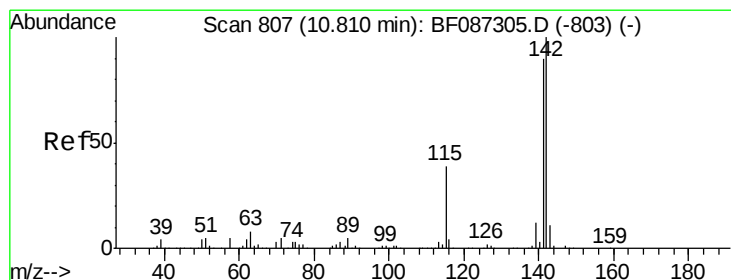
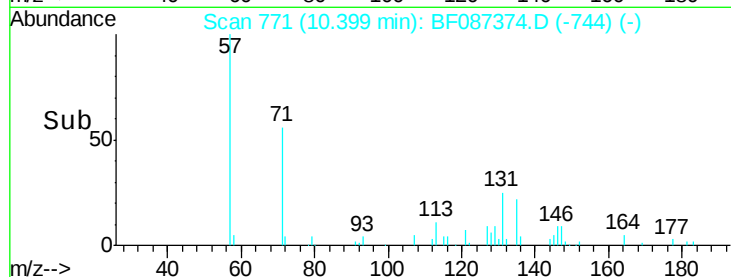
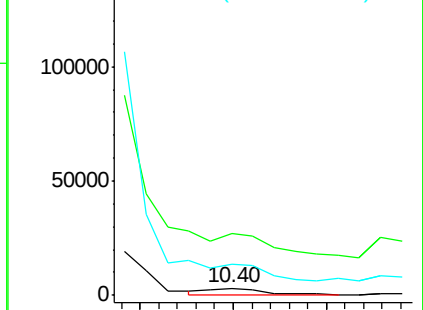
56 449.9 115.3 155.3#



Abundance Ion 113.00 (112.70 to 113.70): E

Ion 55.00 (54.70 to 55.70): BF0

Ion 56.00 (55.70 to 56.70): BF0



#37

2-Methylnaphthalene

Concen: 6.48 ng

RT: 10.71 min Scan# 798

Delta R.T. -0.01 min

Lab File: BF087374.D

Acq: 25 May 2016 16:10

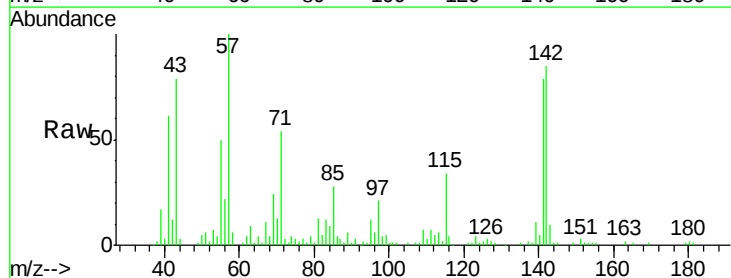
Tgt Ion:142 Resp: 87241

Ion Ratio Lower Upper

142 100

141 92.5 71.0 106.6

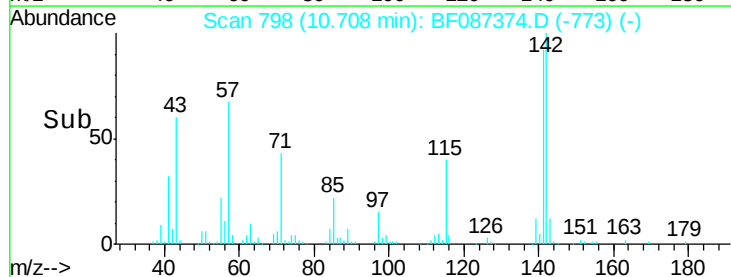
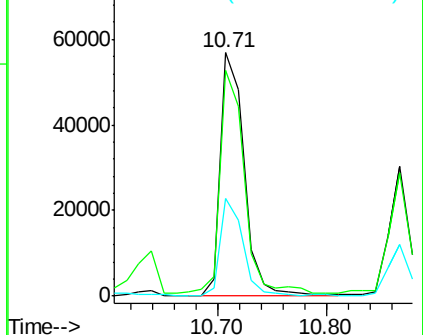
115 40.0 26.6 39.8#

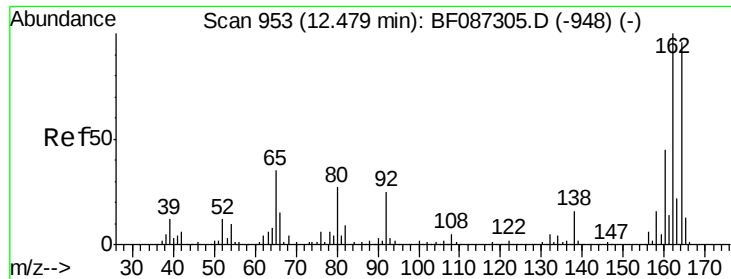


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E

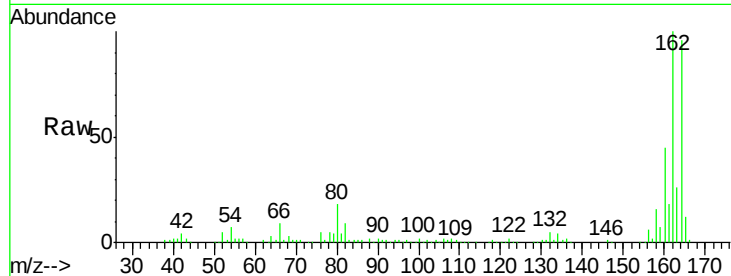




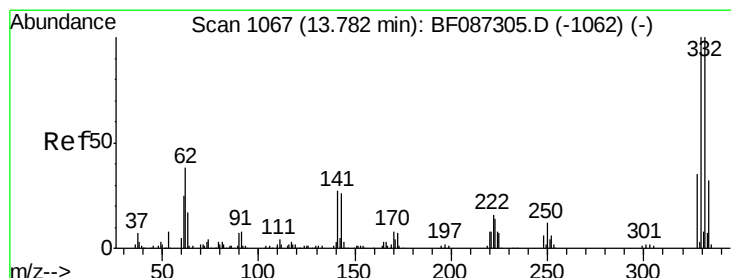
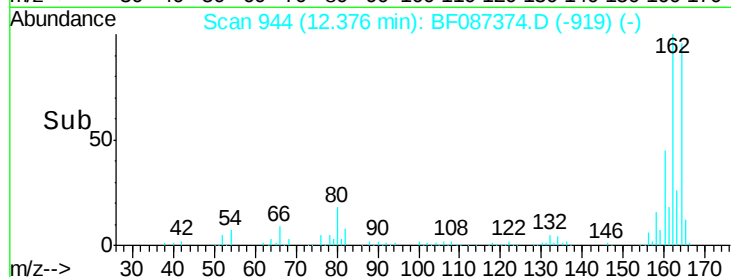
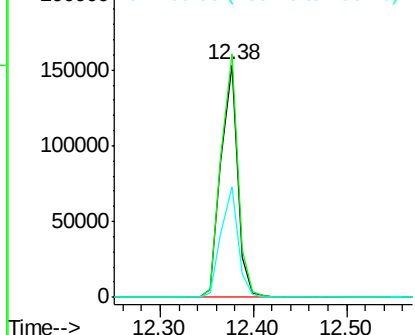
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 12.38 min Scan# 944
 Delta R.T. -0.01 min
 Lab File: BF087374.D
 Acq: 25 May 2016 16:10

Instrument :
 BNA_F
 ClientSampleId :
 E-3(13-15)

Tgt Ion:164 Resp: 192123
 Ion Ratio Lower Upper
 164 100
 162 104.7 82.8 124.2
 160 47.2 36.9 55.3

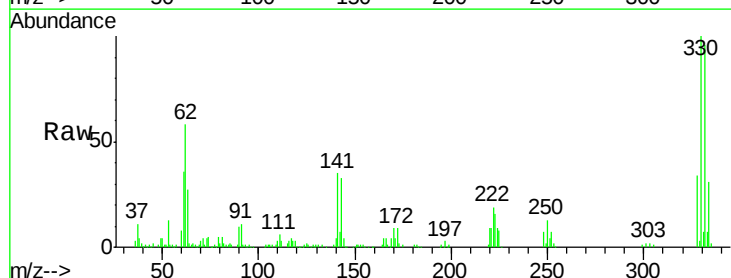


Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E

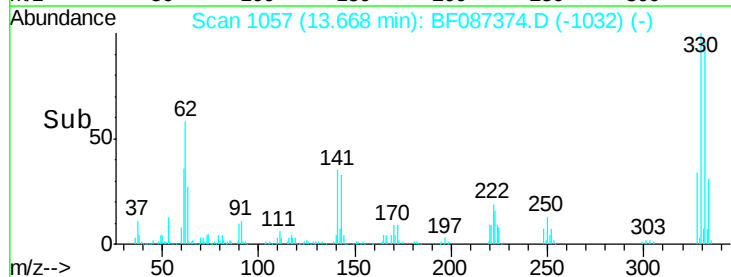
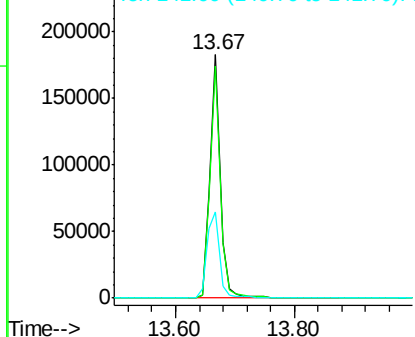


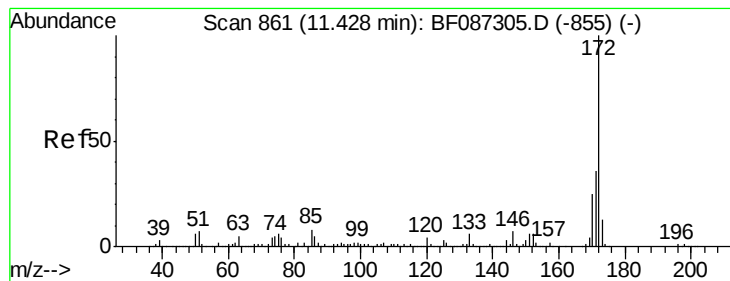
#41
 2,4,6-Tribromophenol
 Concen: 120.04 ng
 RT: 13.67 min Scan# 1057
 Delta R.T. -0.01 min
 Lab File: BF087374.D
 Acq: 25 May 2016 16:10

Tgt Ion:330 Resp: 221630
 Ion Ratio Lower Upper
 330 100
 332 96.3 79.0 118.4
 141 44.5 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: 71.06 ng

RT: 11.32 min Scan# 852

Delta R.T. -0.01 min

Lab File: BF087374.D

Acq: 25 May 2016 16:10

Instrument :

BNA_F

ClientSampleId :

E-3(13-15)

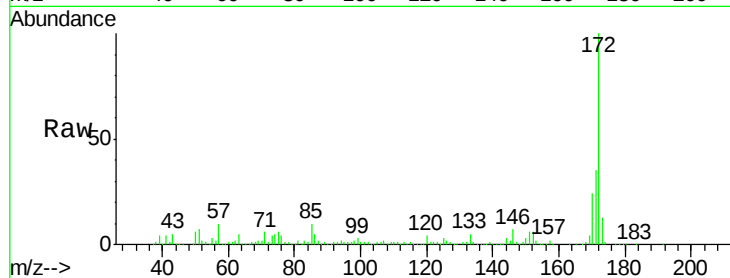
Tgt Ion:172 Resp: 968340

Ion Ratio Lower Upper

172 100

171 35.4 29.0 43.6

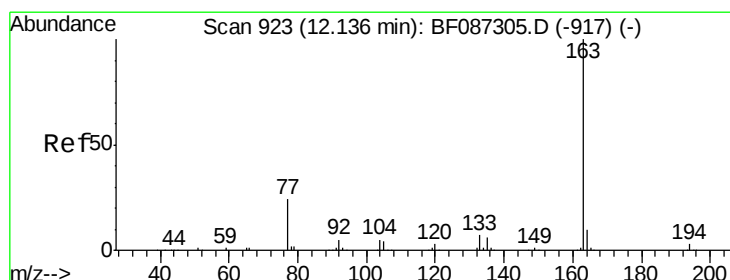
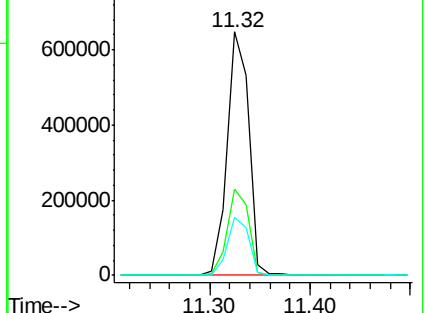
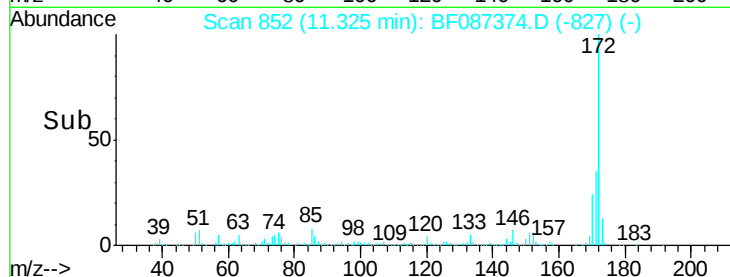
170 23.8 19.8 29.8



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: 13.07 ng

RT: 12.02 min Scan# 913

Delta R.T. -0.02 min

Lab File: BF087374.D

Acq: 25 May 2016 16:10

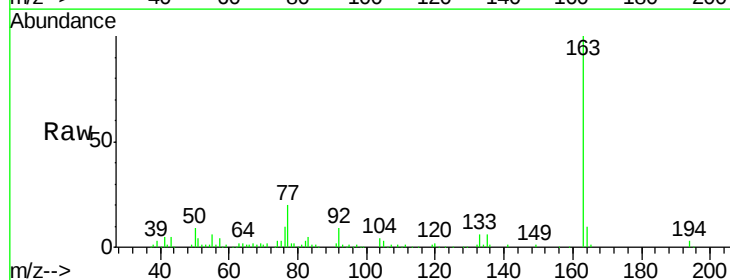
Tgt Ion:163 Resp: 201222

Ion Ratio Lower Upper

163 100

194 3.3 2.6 4.0

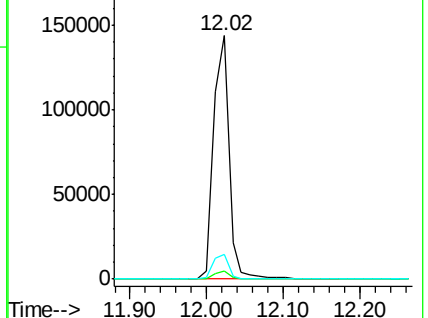
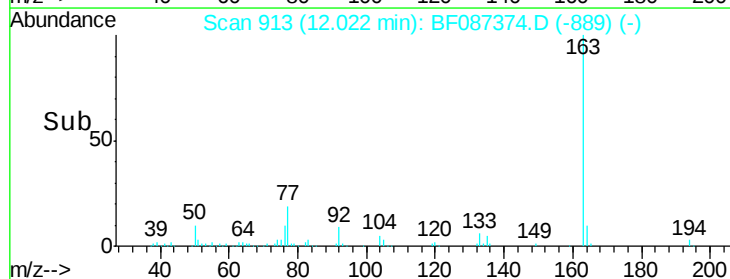
164 10.0 8.2 12.4

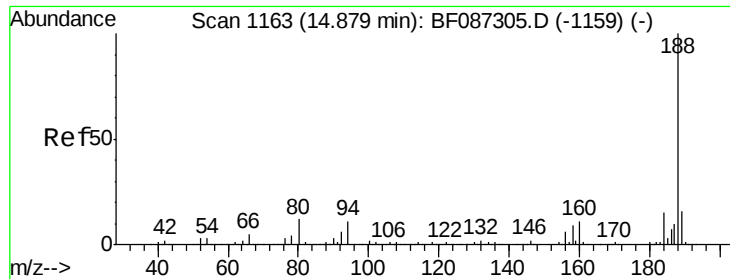


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E

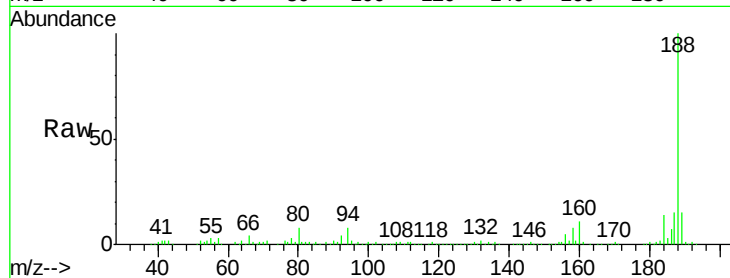




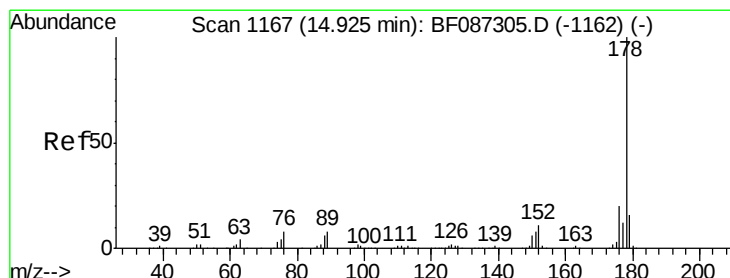
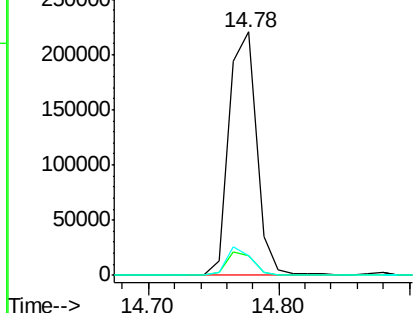
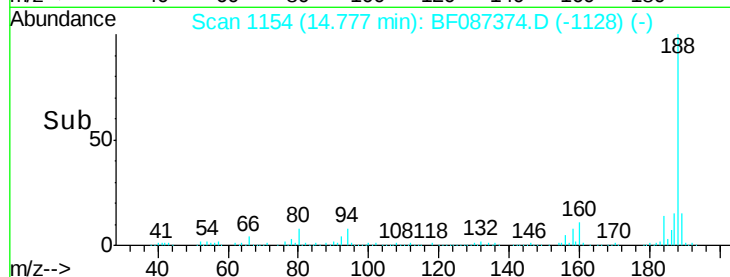
#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 14.78 min Scan# 1154
 Delta R.T. 0.00 min
 Lab File: BF087374.D
 Acq: 25 May 2016 16:10

Instrument :
 BNA_F
 ClientSampleId :
 E-3(13-15)

Tgt Ion	Ratio	Lower	Upper
188	100		
94	7.8	6.8	10.2
80	8.3	7.1	10.7

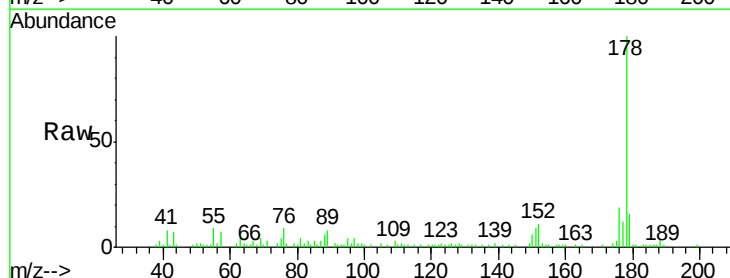


Abundance Ion 188.00 (187.70 to 188.70): E
 Ion 94.00 (93.70 to 94.70): BF0
 Ion 80.00 (79.70 to 80.70): BF0

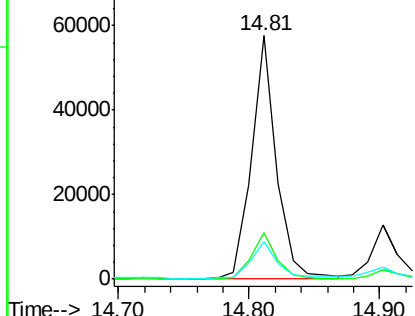
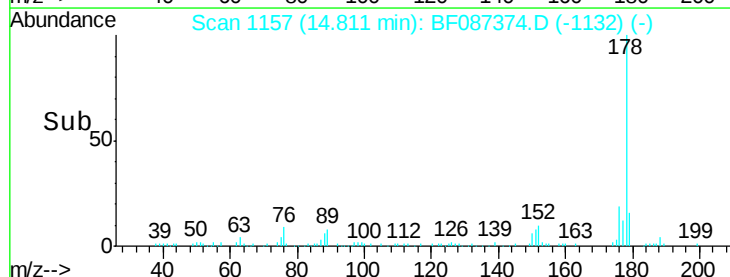


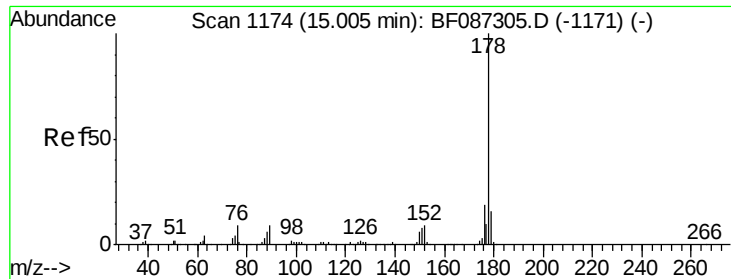
#70
 Phenanthrene
 Concen: 4.27 ng
 RT: 14.81 min Scan# 1157
 Delta R.T. -0.01 min
 Lab File: BF087374.D
 Acq: 25 May 2016 16:10

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.9	16.0	24.0
179	15.6	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

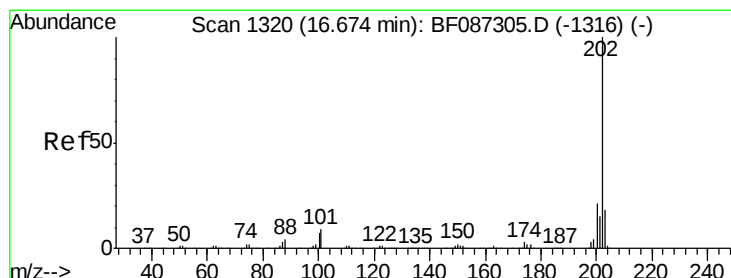
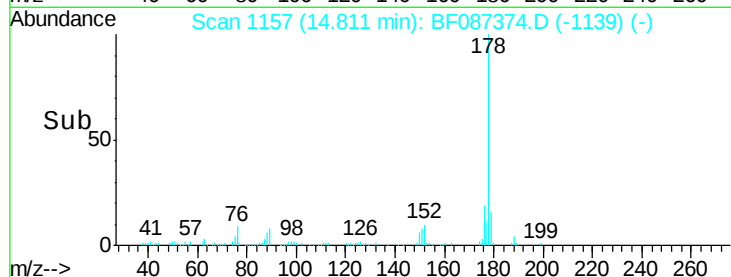
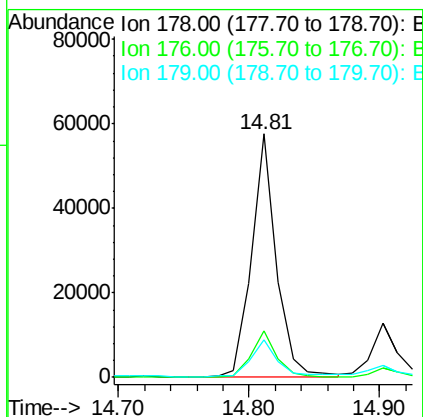
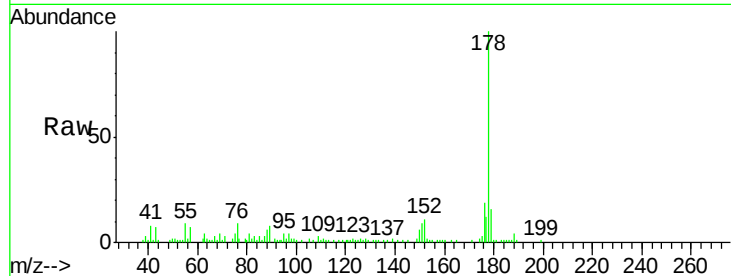




#71
 Anthracene
 Concen: 4.23 ng
 RT: 14.81 min Scan# 1157
 Delta R.T. -0.09 min
 Lab File: BF087374.D
 Acq: 25 May 2016 16:10

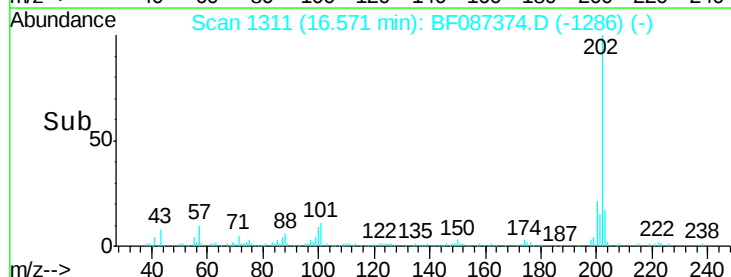
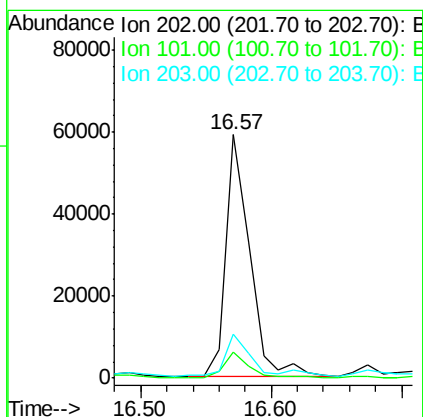
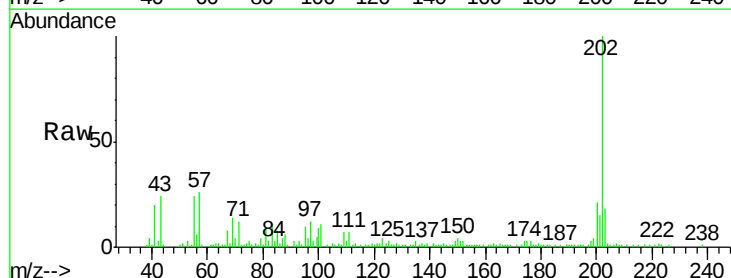
Instrument :
 BNA_F
 ClientSampleId :
 E-3(13-15)

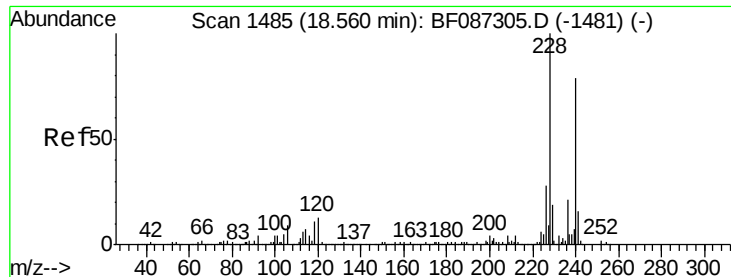
Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.6	23.4
179	15.6	12.7	19.1



#74
 Fluoranthene
 Concen: 4.20 ng
 RT: 16.57 min Scan# 1311
 Delta R.T. -0.01 min
 Lab File: BF087374.D
 Acq: 25 May 2016 16:10

Tgt Ion	Ratio	Lower	Upper
202	100		
101	10.8	0.0	35.4
203	18.0	0.0	38.1





#75

Chrysene-d12

Concen: 20.00 ng

RT: 18.47 min Scan# 1477

Delta R.T. -0.01 min

Lab File: BF087374.D

Acq: 25 May 2016 16:10

Instrument :

BNA_F

ClientSampleId :

E-3(13-15)

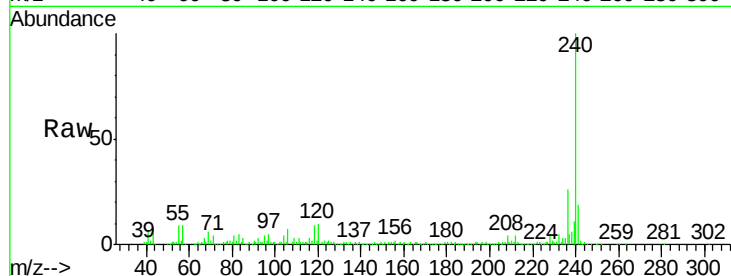
Tgt Ion:240 Resp: 227713

Ion Ratio Lower Upper

240 100

120 10.2 11.2 16.8#

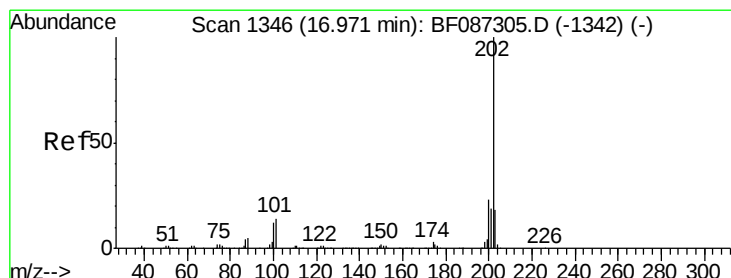
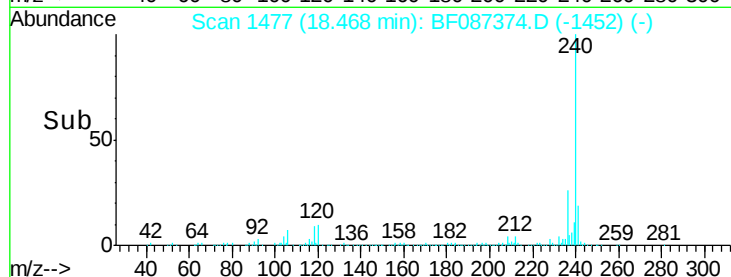
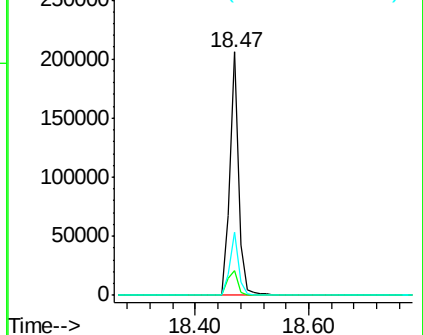
236 26.1 21.2 31.8



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 4.86 ng

RT: 16.88 min Scan# 1338

Delta R.T. 0.00 min

Lab File: BF087374.D

Acq: 25 May 2016 16:10

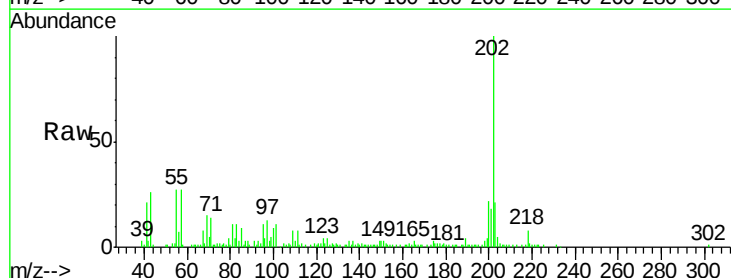
Tgt Ion:202 Resp: 79580

Ion Ratio Lower Upper

202 100

200 21.6 17.7 26.5

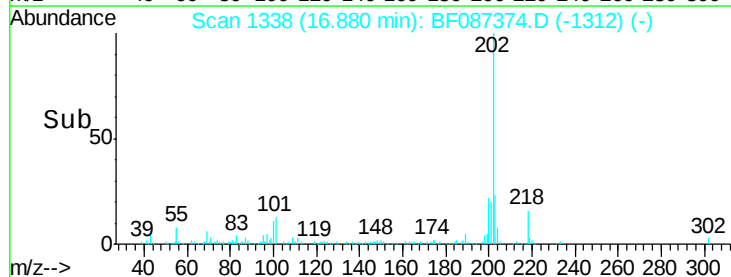
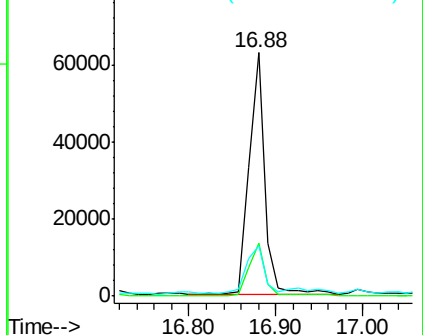
203 20.5 14.2 21.4

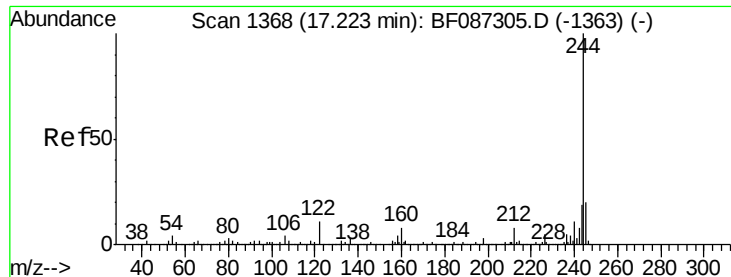


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 59.29 ng

RT: 17.13 min Scan# 1360

Delta R.T. 0.00 min

Lab File: BF087374.D

Acq: 25 May 2016 16:10

Instrument :

BNA_F

ClientSampled :

E-3(13-15)

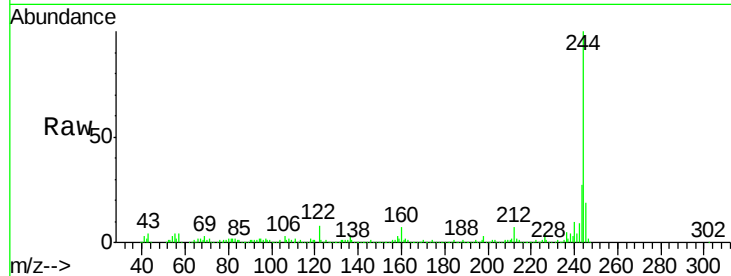
Tgt Ion:244 Resp: 635063

Ion Ratio Lower Upper

244 100

212 7.0 6.2 9.2

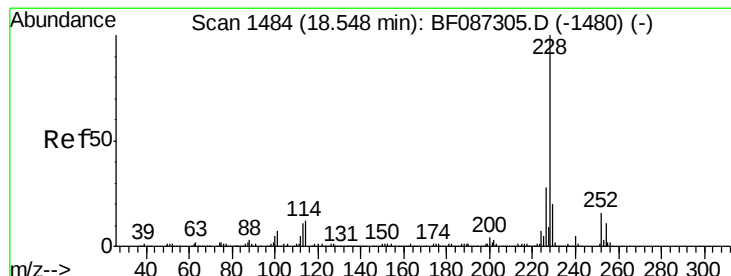
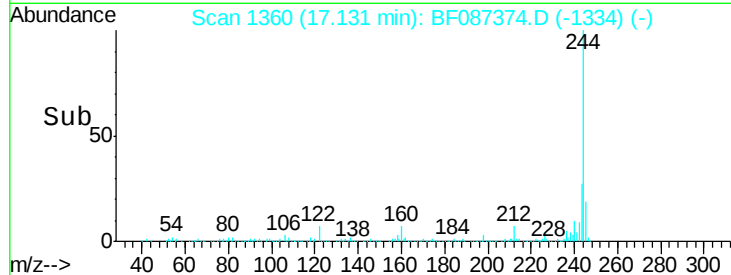
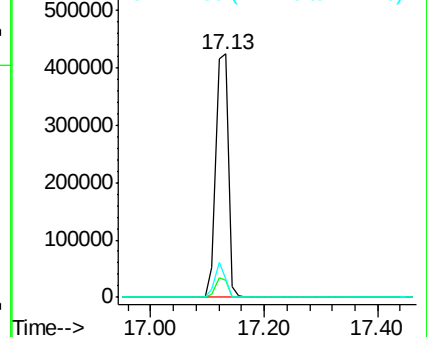
122 7.6 12.0 18.0#



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#80

Benzo(a)anthracene

Concen: 3.62 ng

RT: 18.46 min Scan# 1476

Delta R.T. 0.00 min

Lab File: BF087374.D

Acq: 25 May 2016 16:10

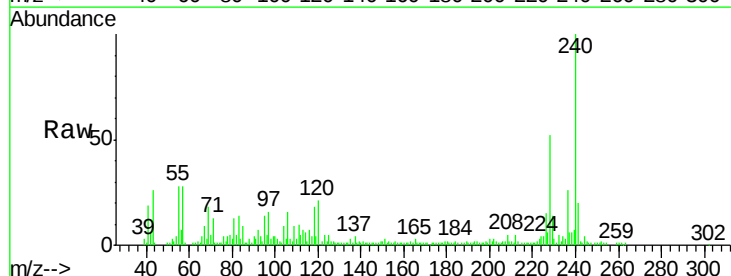
Tgt Ion:228 Resp: 46924

Ion Ratio Lower Upper

228 100

226 29.5 22.5 33.7

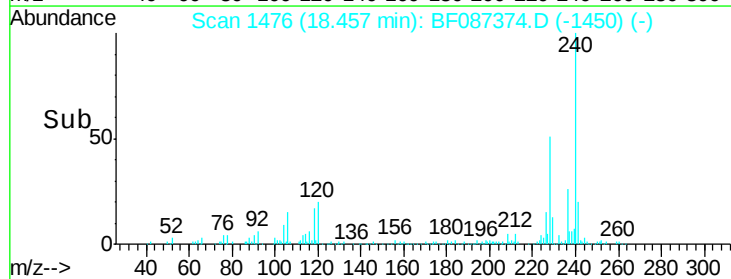
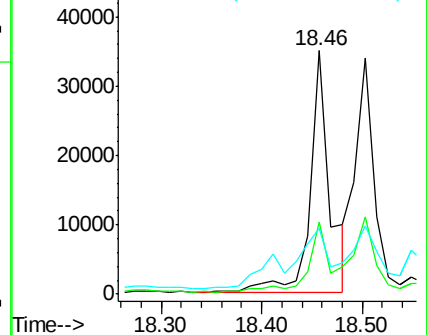
229 26.9 16.6 25.0#

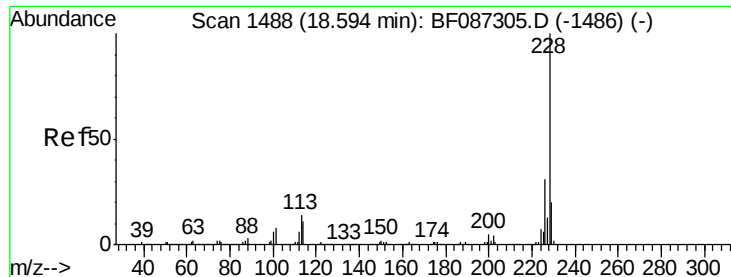


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 3.58 ng

RT: 18.50 min Scan# 1480

Delta R.T. -0.01 min

Lab File: BF087374.D

Acq: 25 May 2016 16:10

Instrument :

BNA_F

ClientSampleId :

E-3(13-15)

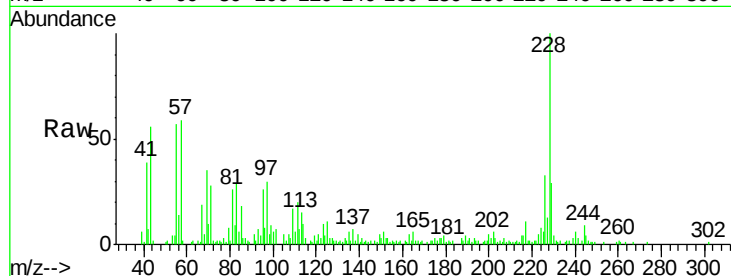
Tgt Ion:228 Resp: 46059

Ion Ratio Lower Upper

228 100

226 33.0 24.4 36.6

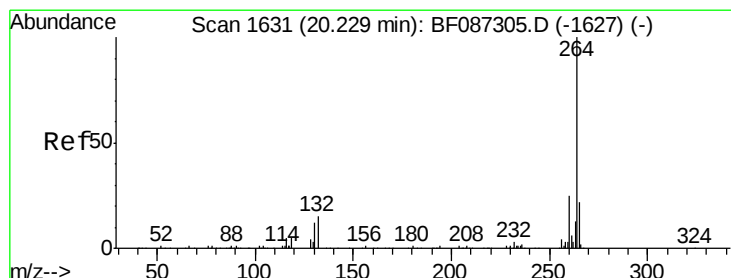
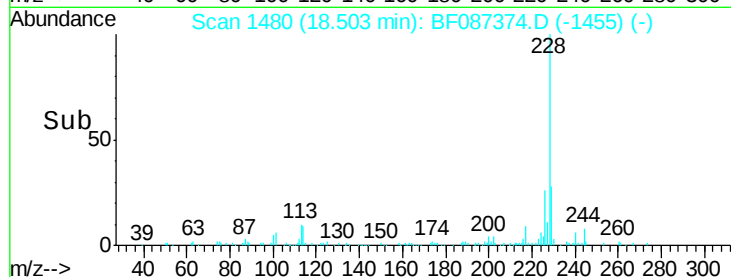
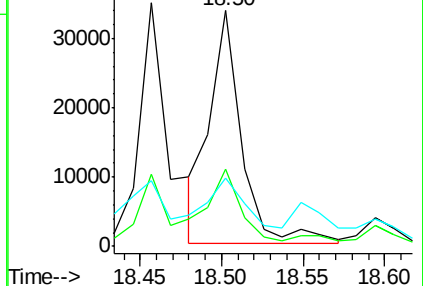
229 29.1 15.8 23.8#



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#86

Perylene-d12

Concen: 20.00 ng

RT: 20.14 min Scan# 1623

Delta R.T. 0.00 min

Lab File: BF087374.D

Acq: 25 May 2016 16:10

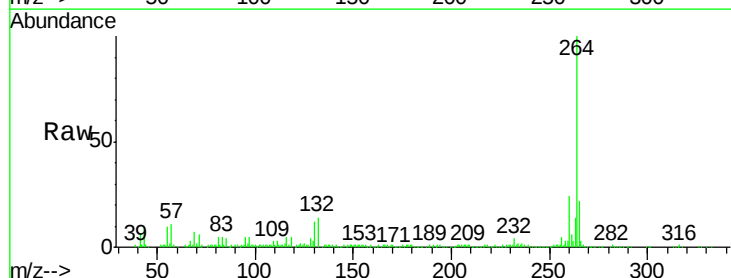
Tgt Ion:264 Resp: 211781

Ion Ratio Lower Upper

264 100

260 24.1 19.5 29.3

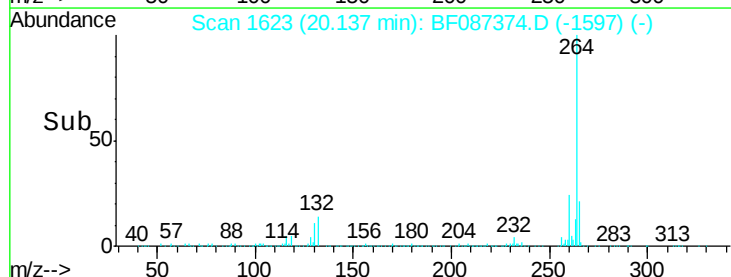
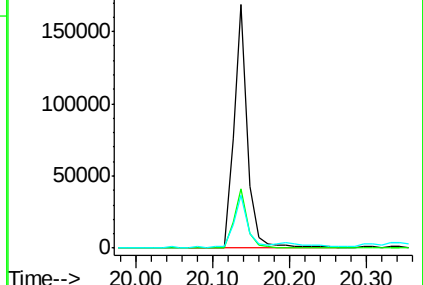
265 21.6 17.3 25.9

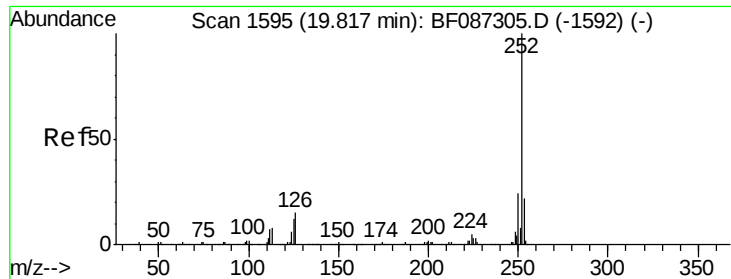


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

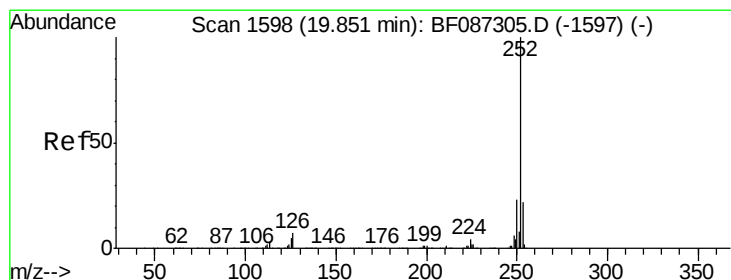
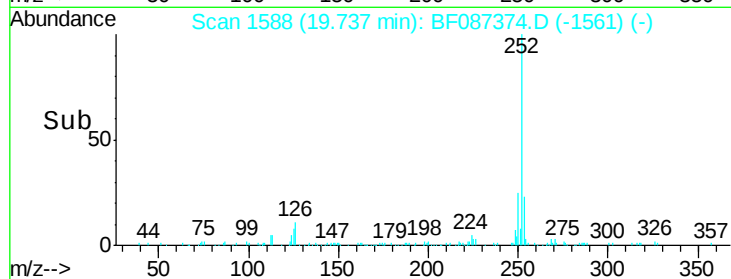
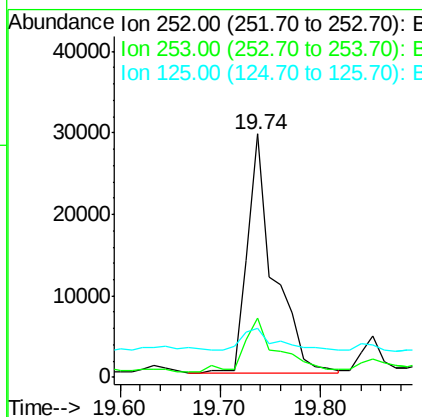
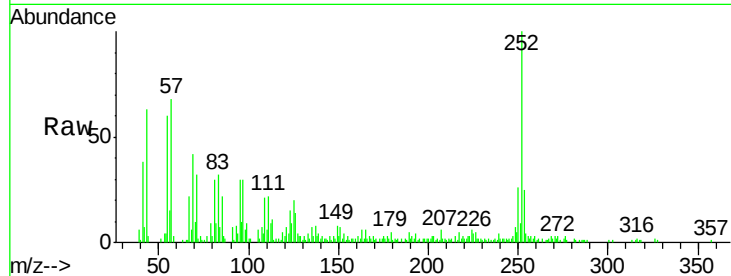




#87
Benzo(b)fluoranthene
Concen: 3.93 ng
RT: 19.74 min Scan# 1588
Delta R.T. 0.01 min
Lab File: BF087374.D
Acq: 25 May 2016 16:10

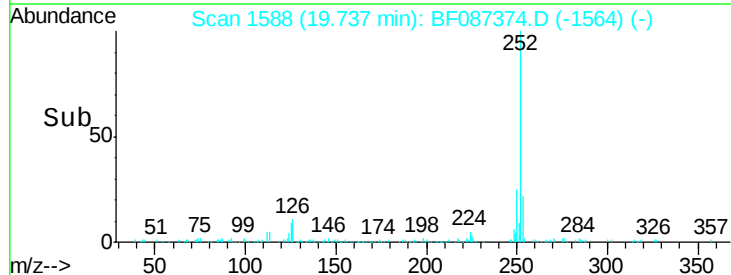
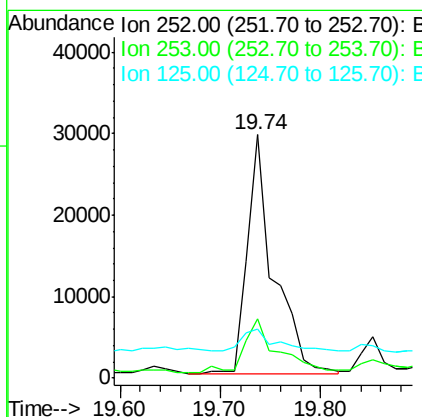
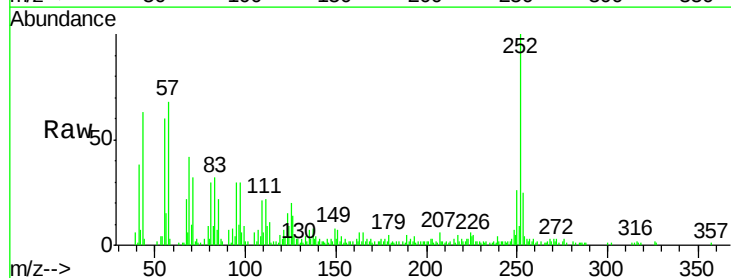
Instrument :
BNA_F
ClientSampleId :
E-3(13-15)

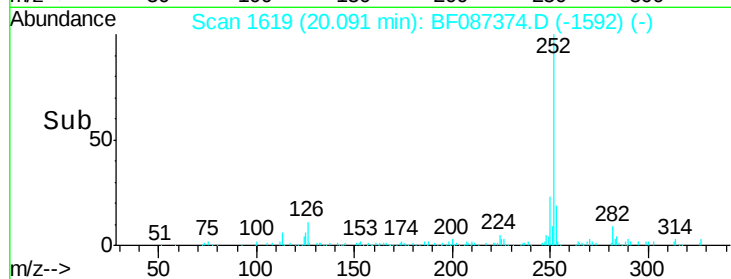
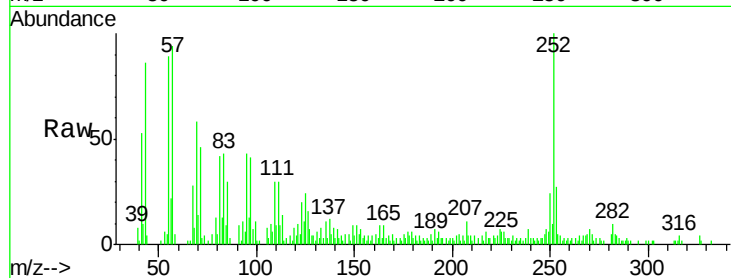
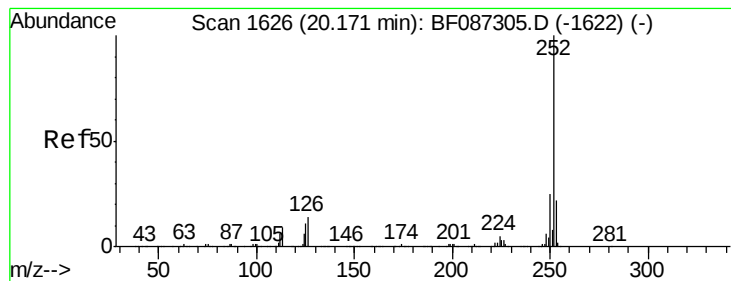
Tgt Ion:252 Resp: 53026
Ion Ratio Lower Upper
252 100
253 24.6 17.8 26.6
125 20.2 11.4 17.0#



#88
Benzo(k)fluoranthene
Concen: 4.57 ng
RT: 19.74 min Scan# 1588
Delta R.T. -0.02 min
Lab File: BF087374.D
Acq: 25 May 2016 16:10

Tgt Ion:252 Resp: 53026
Ion Ratio Lower Upper
252 100
253 24.6 17.8 26.6
125 20.2 9.1 13.7#





#89

Benzo(a)pyrene

Concen: 2.50 ng

RT: 20.09 min Scan# 1619

Delta R.T. 0.01 min

Lab File: BF087374.D

Acq: 25 May 2016 16:10

Instrument :

BNA_F

ClientSampleId :

E-3(13-15)

Tgt Ion:252 Resp: 29171

Ion Ratio Lower Upper

252 100

253 27.3 17.2 25.8#

125 24.2 9.0 13.6#

