

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF080116\
 Data File : BF089535.D
 Acq On : 2 Aug 2016 3:25
 Operator : UM/SJ
 Sample : H4288-12
 Misc :
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-66-0.5-1.5

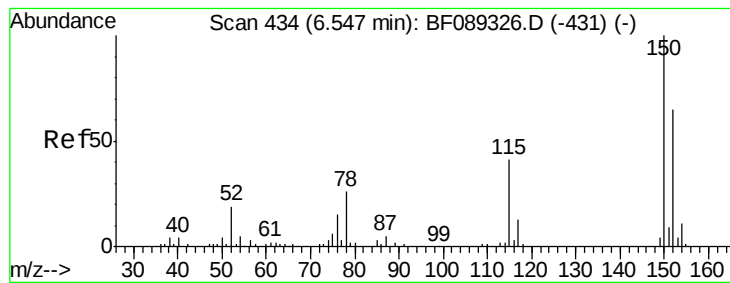
Quant Time: Aug 02 03:51:19 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF072716.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Aug 02 02:21:57 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.48	152	34165	20.00	ng	0.00
21) Naphthalene-d8	7.77	136	115689	20.00	ng	0.00
38) Acenaphthene-d10	9.51	164	48779	20.00	ng	-0.01
63) Phenanthrene-d10	10.98	188	81958	20.00	ng	0.00
75) Chrysene-d12	13.60	240	92120	20.00	ng	-0.01
86) Perylene-d12	14.93	264	78110	20.00	ng	-0.01

System Monitoring Compounds						
5) 2-Fluorophenol	5.05	112	226933	106.06	ng	0.01
7) Phenol-d6	6.15	99	277953	98.30	ng	0.00
23) Nitrobenzene-d5	7.05	82	168958	86.20	ng	-0.01
41) 2,4,6-Tribromophenol	10.30	330	37813	93.60	ng	-0.01
44) 2-Fluorobiphenyl	8.84	172	266589	80.21	ng	-0.01
78) Terphenyl-d14	12.56	244	201873	51.29	ng	-0.01

Target Compounds						Qvalue
2) 1,4-Dioxane	1.66	88	46823	49.10	ng	# 26
9) Benzaldehyde	6.25	77	5416	3.92	ng	# 80
19) n-Nitroso-di-n-propylamine	7.05	70	22104	12.96	ng	# 82
49) Dimethylphthalate	9.24	163	44259	11.92	ng	99
55) 4-Nitrophenol	9.71	139	877	8.25	ng	# 4
56) 2,4-Dinitrotoluene	9.51	165	6009	5.98	ng	# 7
66) 4-Bromophenyl-phenylether	10.30	248	2495	3.19	ng	# 1
70) Phenanthrene	11.01	178	68555	16.22	ng	98
71) Anthracene	11.05	178	24790	5.27	ng	98
73) Di-n-butylphthalate	11.57	149	20500	3.86	ng	# 97
74) Fluoranthene	12.18	202	155113	34.89	ng	99
77) Pyrene	12.40	202	143615	20.57	ng	97
80) Benzo(a)anthracene	13.59	228	90842	17.47	ng	97
82) Chrysene	13.62	228	69917	12.63	ng	98
85) Indeno(1,2,3-cd)pyrene	16.09	276	36733	9.34	ng	# 85
87) Benzo(b)fluoranthene	14.59	252	130716	26.95	ng	97
88) Benzo(k)fluoranthene	14.59	252	130716	29.31	ng	99
89) Benzo(a)pyrene	14.88	252	66406	15.26	ng	97
90) Dibenzo(a,h)anthracene	16.09	278	13788	4.02	ng	# 79
91) Benzo(g,h,i)perylene	16.43	276	36230	10.75	ng	99

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



#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.48 min Scan# 428

Delta R.T. 0.00 min

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SB-66-0.5-1.5

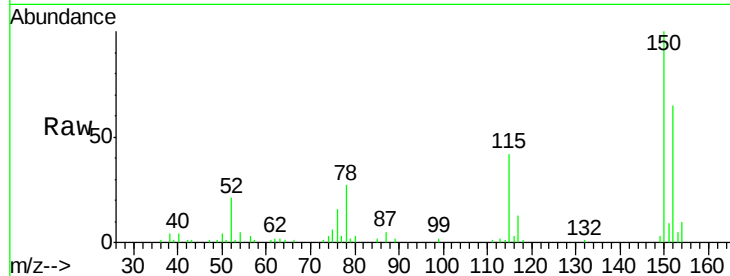
Tgt Ion:152 Resp: 34165

Ion Ratio Lower Upper

152 100

150 153.8 129.5 194.3

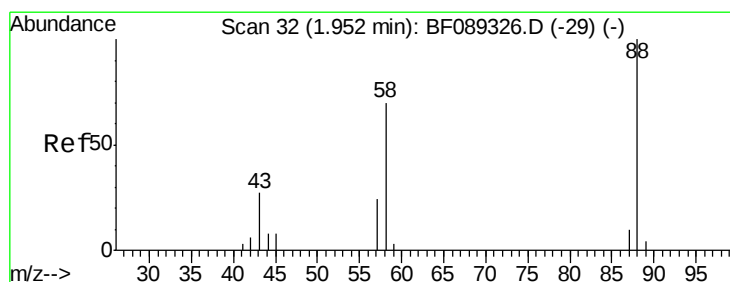
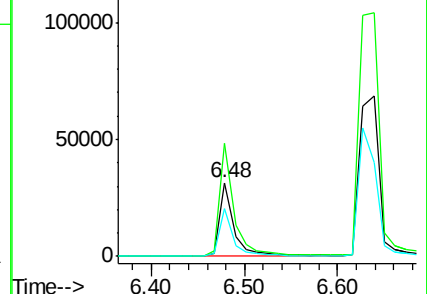
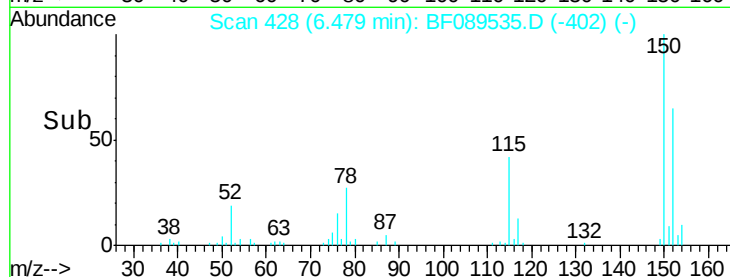
115 65.3 51.4 77.2



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: 49.10 ng

RT: 1.66 min Scan# 6

Delta R.T. -0.19 min

Lab File: BF089535.D

Acq: 2 Aug 2016 3:25

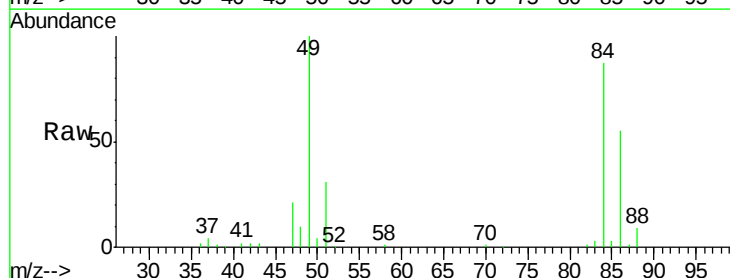
Tgt Ion: 88 Resp: 46823

Ion Ratio Lower Upper

88 100

58 0.0 53.2 79.8#

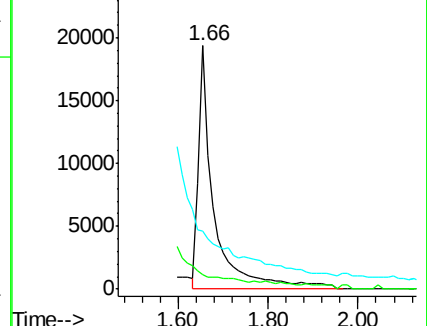
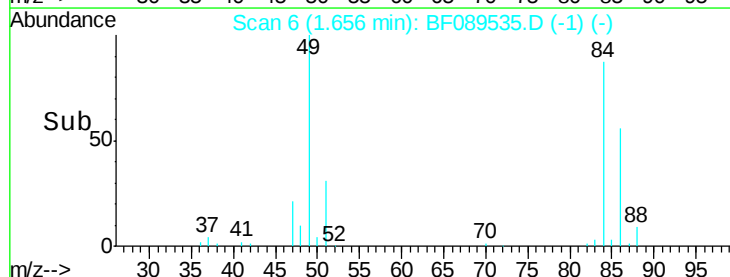
43 0.0 20.6 31.0#

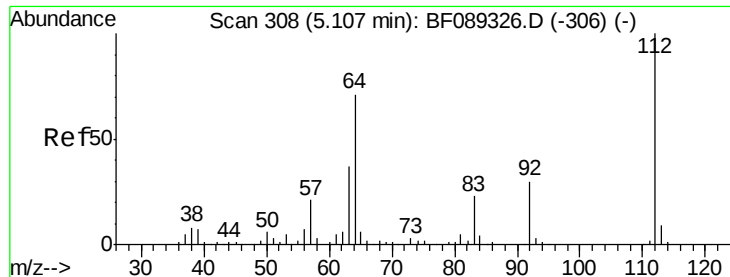


Abundance Ion 88.00 (87.70 to 88.70): BF0

Ion 58.00 (57.70 to 58.70): BF0

Ion 43.00 (42.70 to 43.70): BF0





#5

2-Fluorophenol

Concen: 106.06 ng

RT: 5.05 min Scan# 303

Delta R.T. 0.01 min

Lab File: BF089535.D

Acq: 2 Aug 2016 3:25

Instrument :

BNA_F

ClientSampleId :

SB-66-0.5-1.5

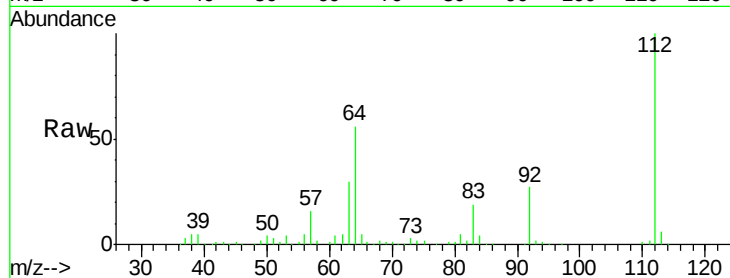
Tgt Ion: 112 Resp: 226933

Ion Ratio Lower Upper

112 100

64 55.6 55.0 82.6

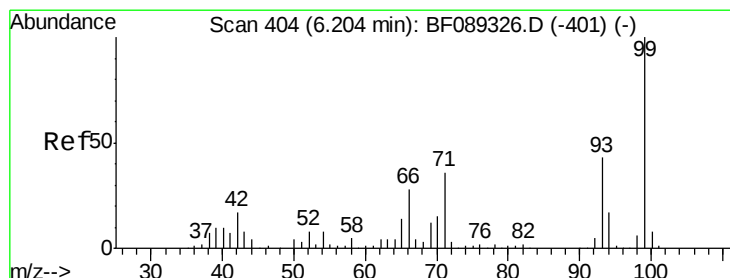
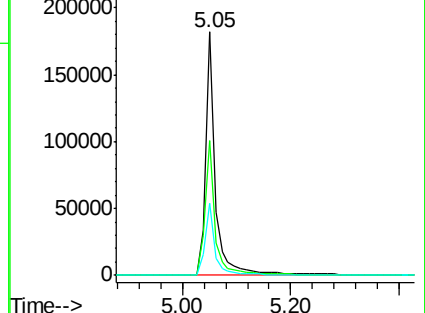
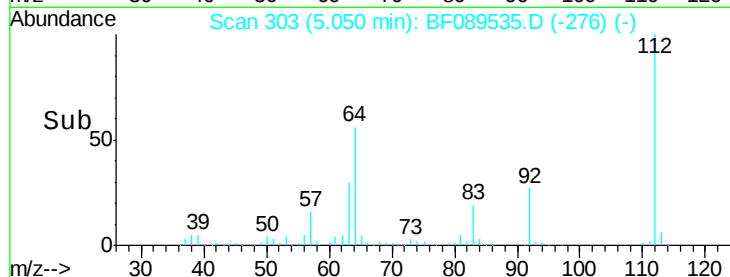
63 29.7 29.4 44.2



Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0



#7

Phenol-d6

Concen: 98.30 ng

RT: 6.15 min Scan# 399

Delta R.T. 0.00 min

Lab File: BF089535.D

Acq: 2 Aug 2016 3:25

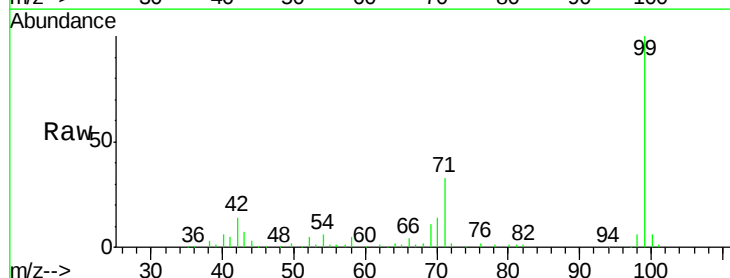
Tgt Ion: 99 Resp: 277953

Ion Ratio Lower Upper

99 100

42 14.5 13.6 20.4

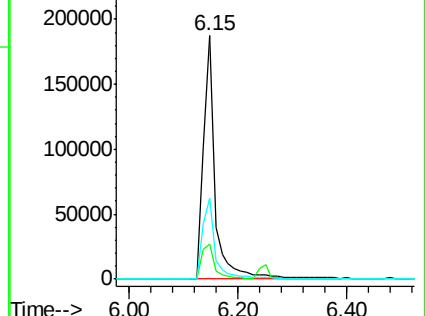
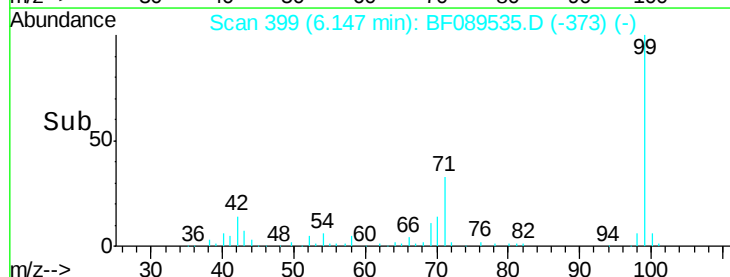
71 33.1 29.4 44.2

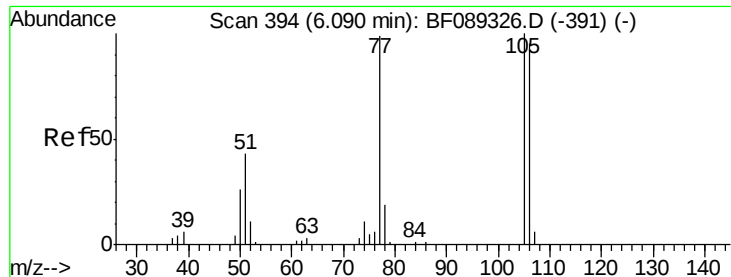


Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0





#9

Benzaldehyde

Concen: 3.92 ng

RT: 6.25 min Scan# 408

Delta R.T. 0.23 min

Lab File: BF089535.D

Acq: 2 Aug 2016 3:25

Instrument :

BNA_F

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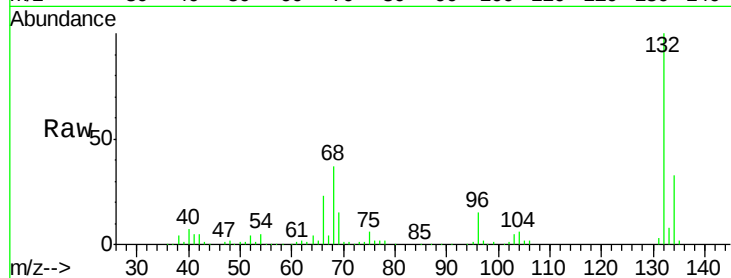
Tgt Ion: 77 Resp: 5416

Ion Ratio Lower Upper

77 100

105 80.7 82.9 122.9#

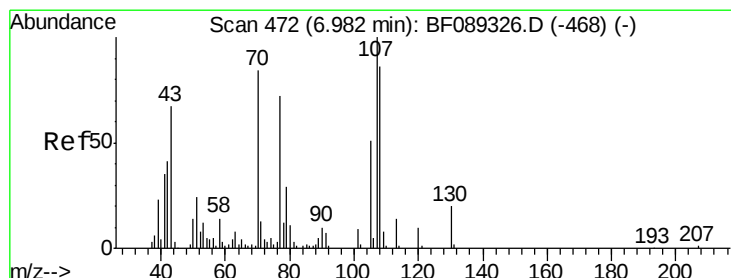
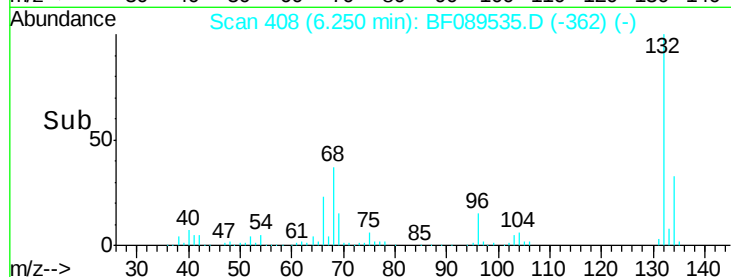
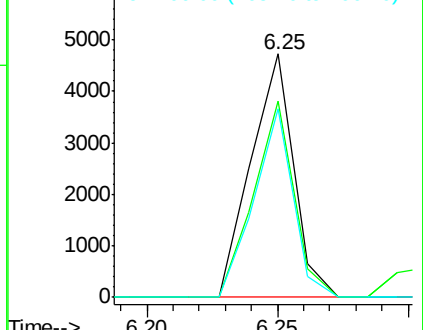
106 77.3 75.9 115.9



Abundance Ion 77.00 (76.70 to 77.70): BF0

Ion 105.00 (104.70 to 105.70): E

Ion 106.00 (105.70 to 106.70): E



#19

n-Nitroso-di-n-propylamine

Concen: 12.96 ng

RT: 7.05 min Scan# 478

Delta R.T. 0.13 min

Lab File: BF089535.D

Acq: 2 Aug 2016 3:25

Tgt Ion: 70 Resp: 22104

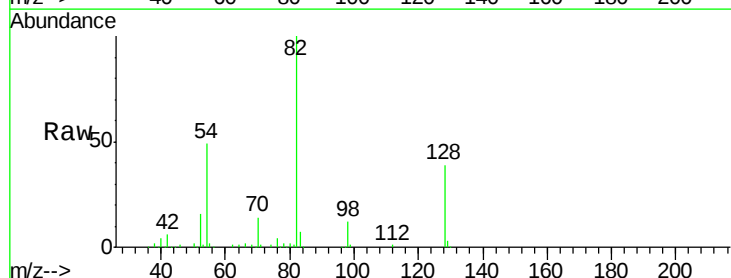
Ion Ratio Lower Upper

70 100

42 46.0 38.6 57.8

101 0.0 8.3 12.5#

130 1.8 19.0 28.4#

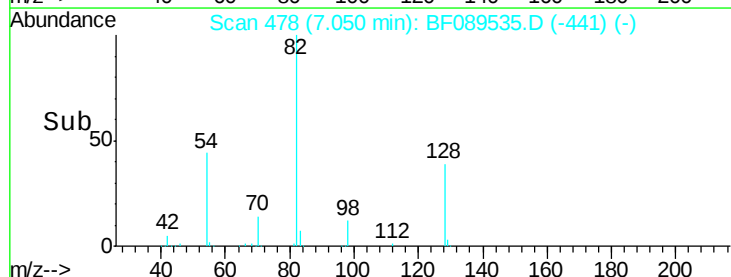
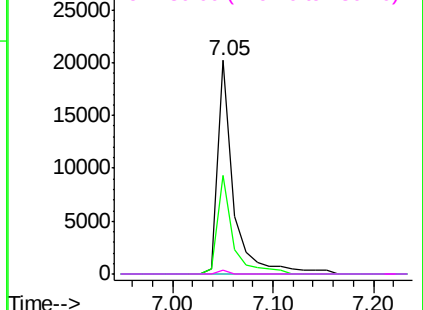


Abundance Ion 70.00 (69.70 to 70.70): BF0

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

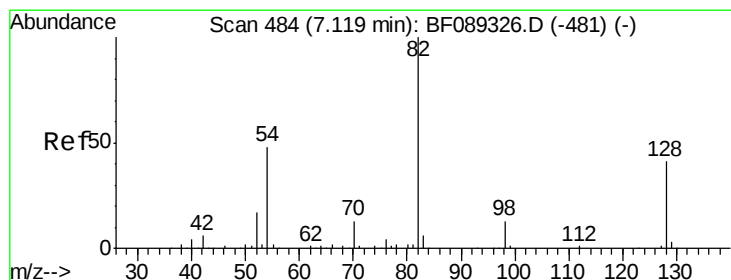
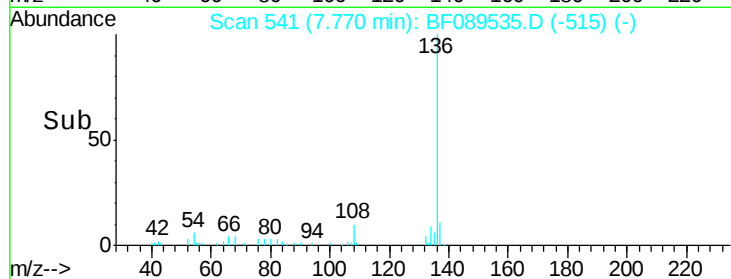
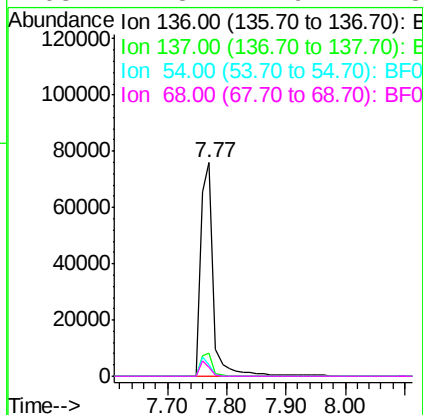
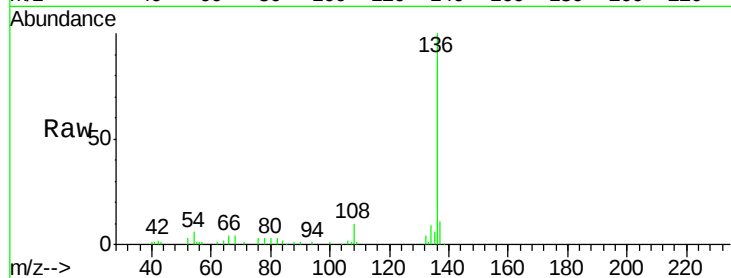




#21
Naphthalene-d8
Concen: 20.00 ng
RT: 7.77 min Scan# 541
Delta R.T. 0.00 min
Lab File: BF089535.D
Acq: 2 Aug 2016 3:25

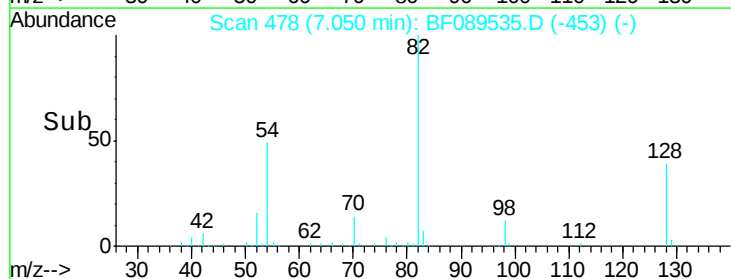
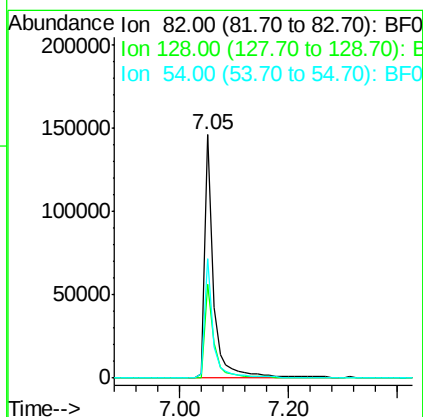
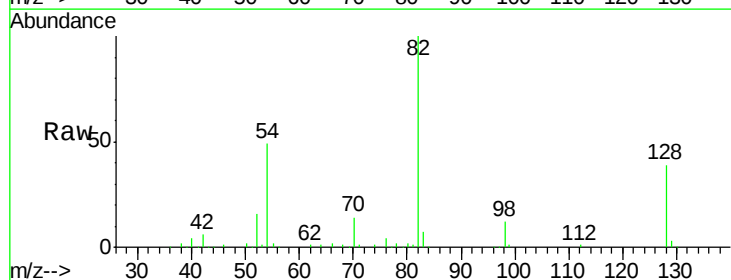
Instrument :
BNA_F
ClientSampleId :
SB-66-0.5-1.5

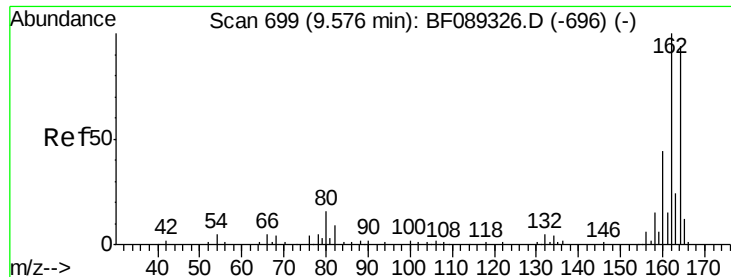
Tgt Ion:	136	Resp:	115689
Ion Ratio	Lower	Upper	
136	100		
137	10.9	8.6	13.0
54	5.7	7.0	10.4#
68	4.3	4.9	7.3#



#23
Nitrobenzene-d5
Concen: 86.20 ng
RT: 7.05 min Scan# 478
Delta R.T. -0.01 min
Lab File: BF089535.D
Acq: 2 Aug 2016 3:25

Tgt Ion:	82	Resp:	168958
Ion Ratio	Lower	Upper	
82	100		
128	38.7	32.5	48.7
54	48.8	38.8	58.2

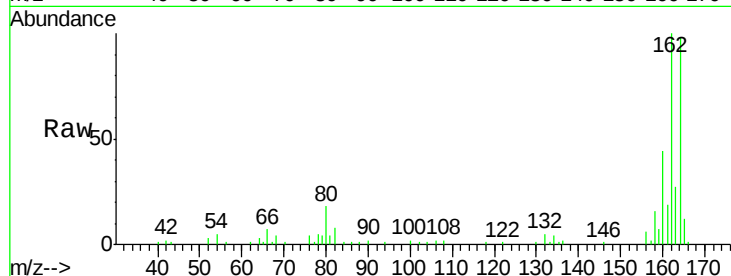




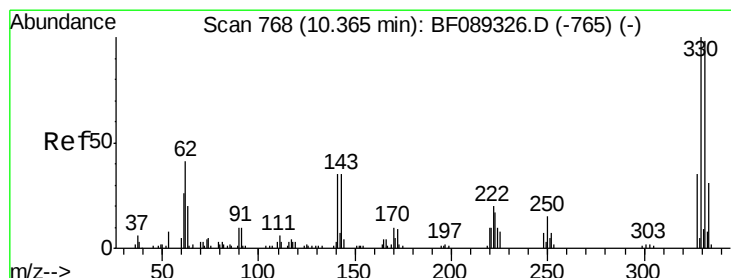
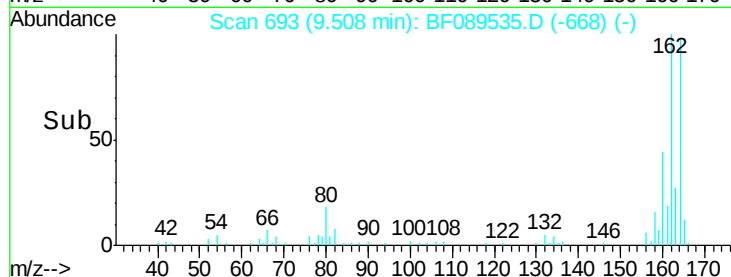
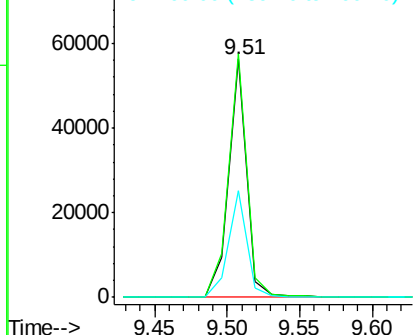
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.51 min Scan# 693
 Delta R.T. -0.01 min
 Lab File: BF089535.D
 Acq: 2 Aug 2016 3:25

Instrument :
 BNA_F
 ClientSampleId :
 SB-66-0.5-1.5

Tgt Ion:164 Resp: 48779
 Ion Ratio Lower Upper
 164 100
 162 102.2 83.7 125.5
 160 44.9 37.8 56.6

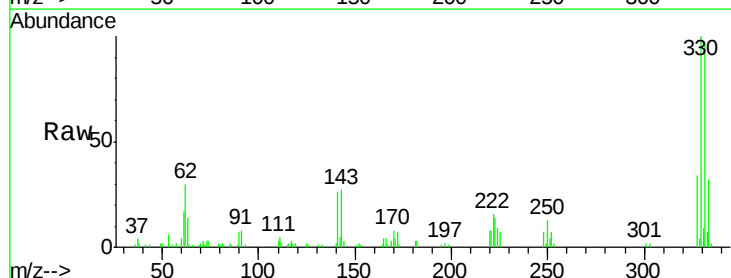


Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E

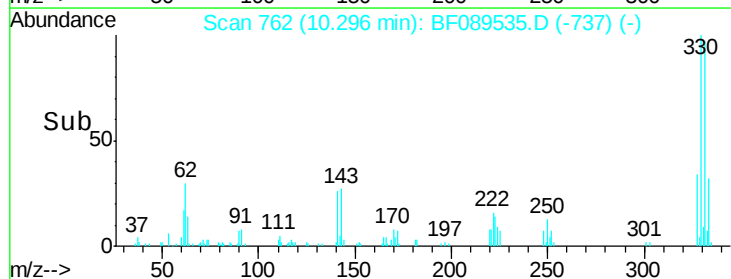
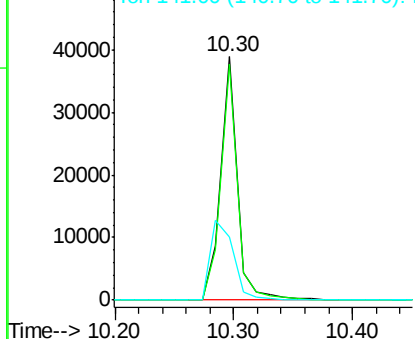


#41
 2,4,6-Tribromophenol
 Concen: 93.60 ng
 RT: 10.30 min Scan# 762
 Delta R.T. -0.01 min
 Lab File: BF089535.D
 Acq: 2 Aug 2016 3:25

Tgt Ion:330 Resp: 37813
 Ion Ratio Lower Upper
 330 100
 332 96.2 76.8 115.2
 141 45.1 37.3 55.9



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

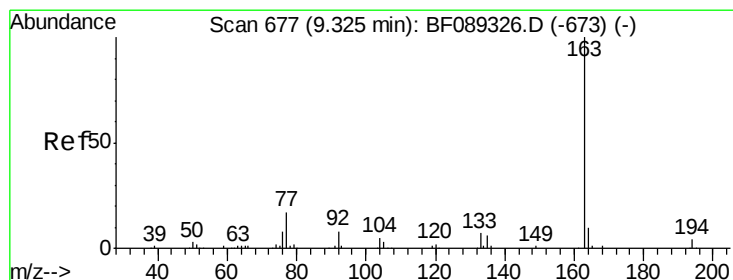
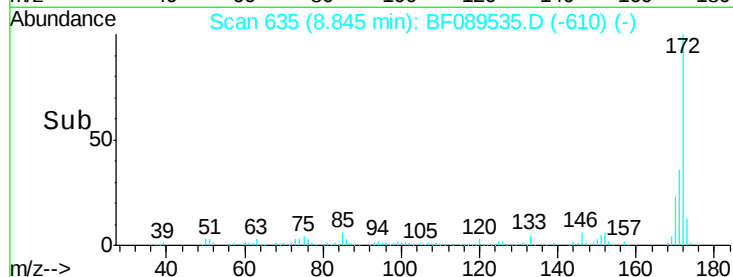
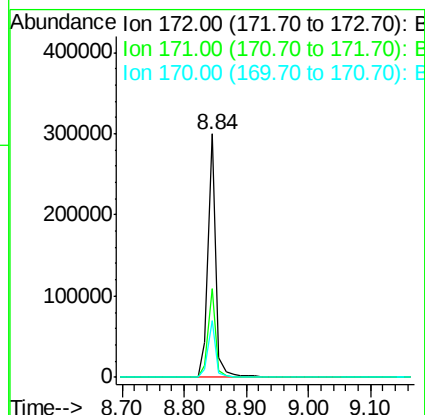
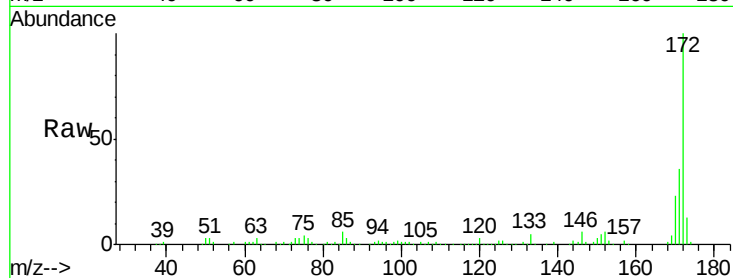




#44
 2-Fluorobiphenyl
 Concen: 80.21 ng
 RT: 8.84 min Scan# 635
 Delta R.T. -0.01 min
 Lab File: BF089535.D
 Acq: 2 Aug 2016 3:25

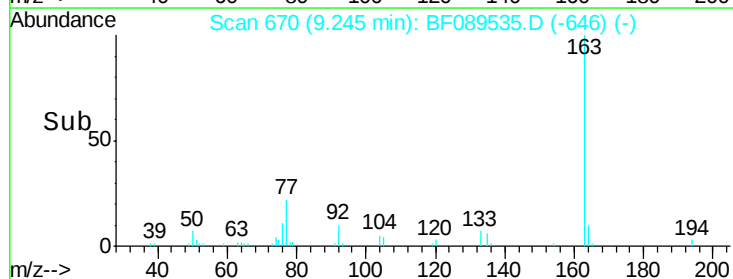
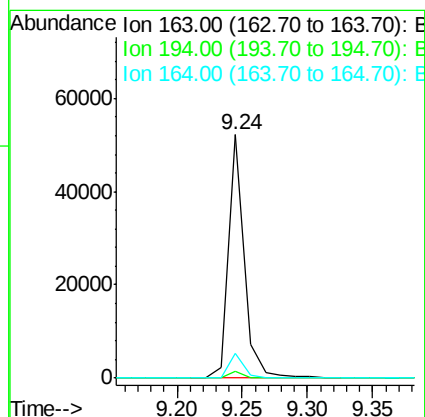
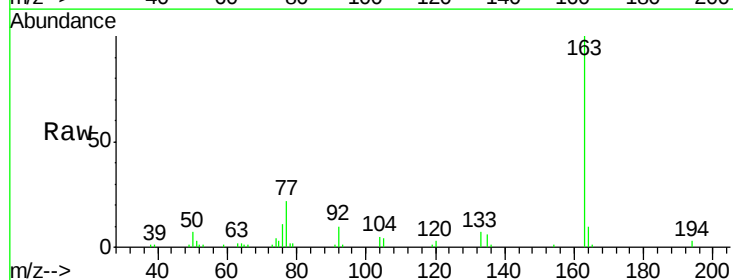
Instrument :
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 ClientSampleId :
 SB-66-0.5-1.5

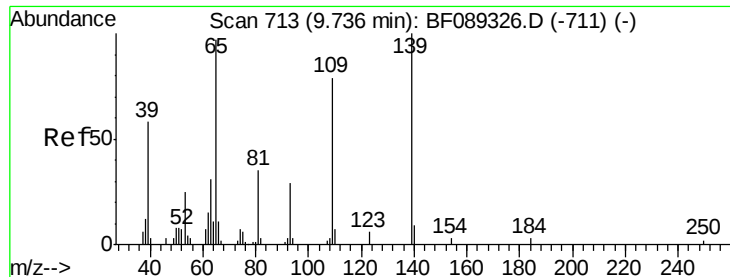
Tgt Ion:172 Resp: 266589
 Ion Ratio Lower Upper
 172 100
 171 36.3 29.2 43.8
 170 23.4 19.2 28.8



#49
 Dimethylphthalate
 Concen: 11.92 ng
 RT: 9.24 min Scan# 670
 Delta R.T. -0.02 min
 Lab File: BF089535.D
 Acq: 2 Aug 2016 3:25

Tgt Ion:163 Resp: 44259
 Ion Ratio Lower Upper
 163 100
 194 3.0 2.8 4.2
 164 9.9 7.8 11.8

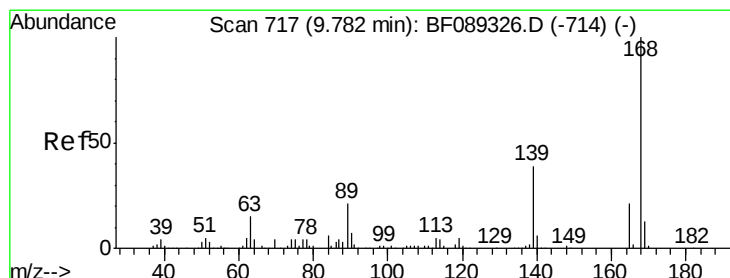
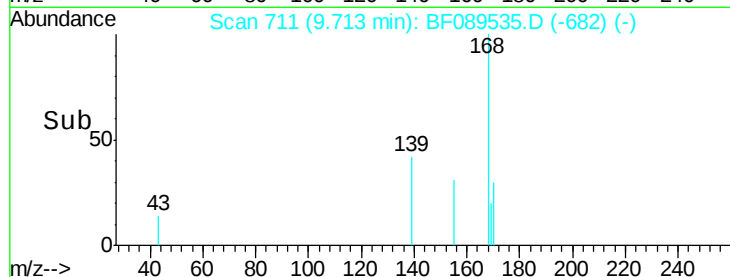
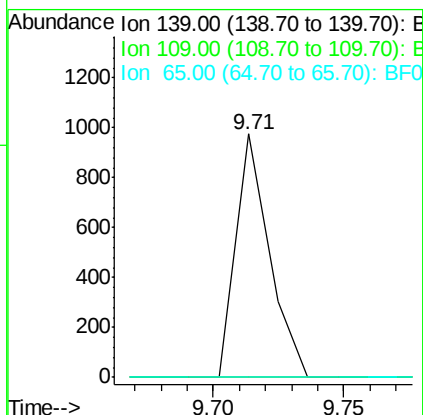
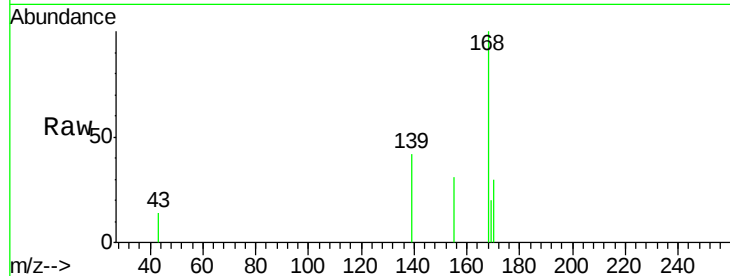




#55
4-Nitrophenol
Concen: 8.25 ng
RT: 9.71 min Scan# 711
Delta R.T. 0.03 min
Lab File: BF089535.D
Acq: 2 Aug 2016 3:25

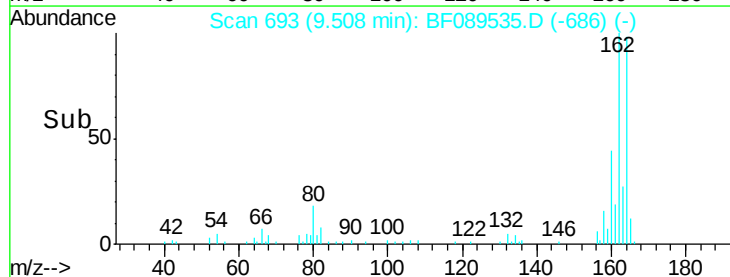
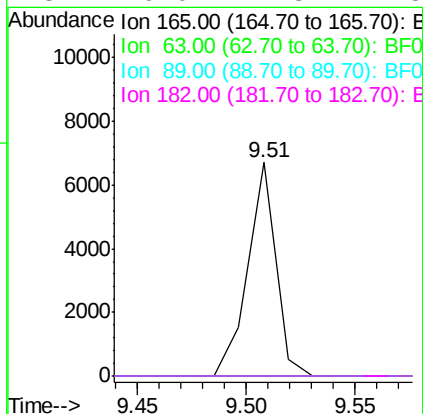
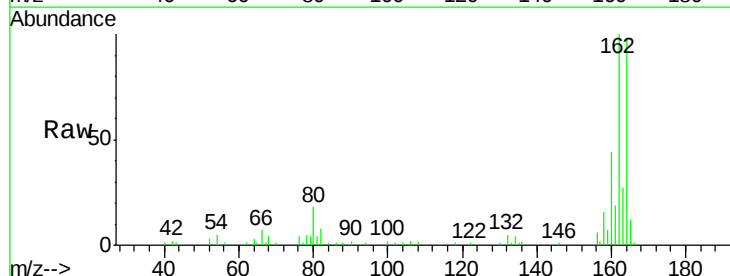
Instrument :
BNA_F
ClientSampleId :
SB-66-0.5-1.5

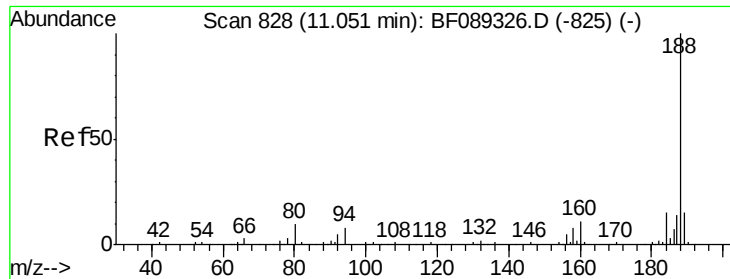
Tgt Ion:139 Resp: 877
Ion Ratio Lower Upper
139 100
109 0.0 57.8 97.8#
65 0.0 81.7 121.7#



#56
2,4-Dinitrotoluene
Concen: 5.98 ng
RT: 9.51 min Scan# 693
Delta R.T. -0.22 min
Lab File: BF089535.D
Acq: 2 Aug 2016 3:25

Tgt Ion:165 Resp: 6009
Ion Ratio Lower Upper
165 100
63 0.0 58.2 87.2#
89 0.0 79.1 118.7#
182 0.0 1.8 2.8#

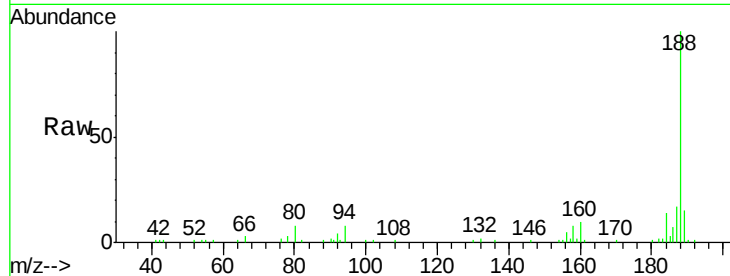




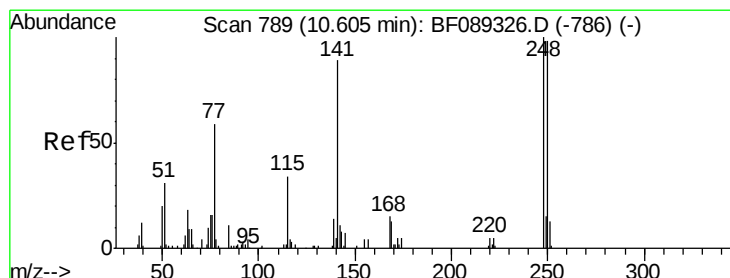
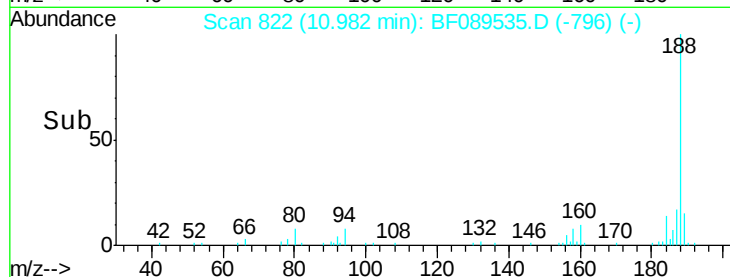
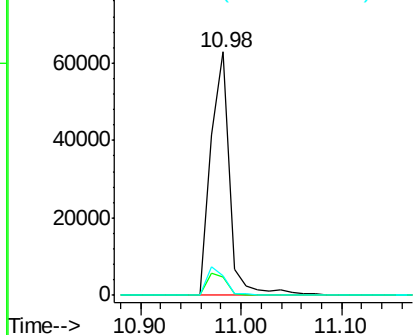
#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 10.98 min Scan# 822
 Delta R.T. 0.00 min
 Lab File: BF089535.D
 Acq: 2 Aug 2016 3:25

Instrument :
 BNA_F
 ClientSampleId :
 SB-66-0.5-1.5

Tgt Ion:188 Resp: 81958
 Ion Ratio Lower Upper
 188 100
 94 7.6 6.5 9.7
 80 8.3 7.2 10.8

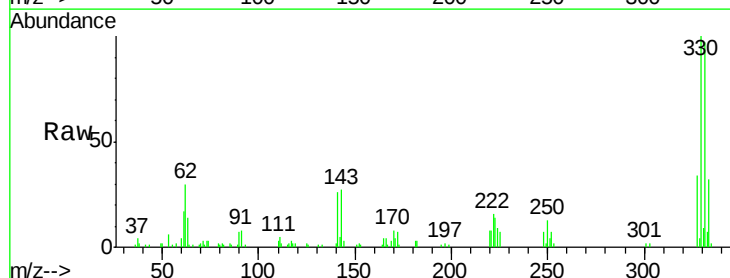


Abundance Ion 188.00 (187.70 to 188.70): E
 Ion 94.00 (93.70 to 94.70): BF0
 Ion 80.00 (79.70 to 80.70): BF0

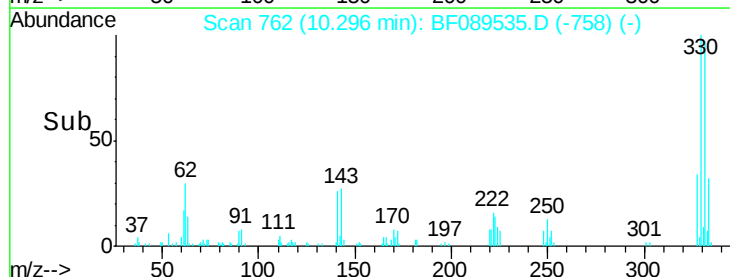
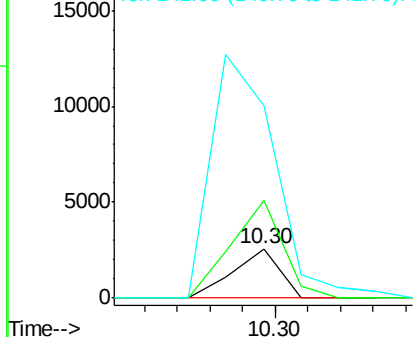


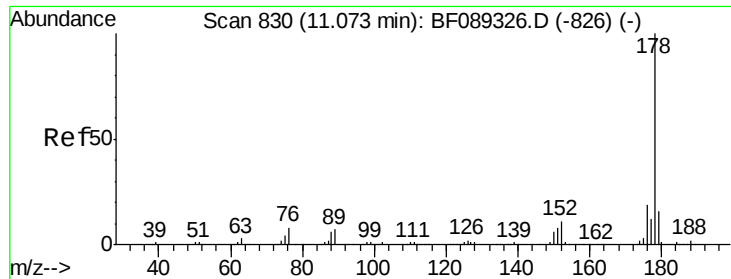
#66
 4-Bromophenyl-phenylether
 Concen: 3.19 ng
 RT: 10.30 min Scan# 762
 Delta R.T. -0.25 min
 Lab File: BF089535.D
 Acq: 2 Aug 2016 3:25

Tgt Ion:248 Resp: 2495
 Ion Ratio Lower Upper
 248 100
 250 198.0 78.2 117.2#
 141 390.2 62.0 93.0#



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

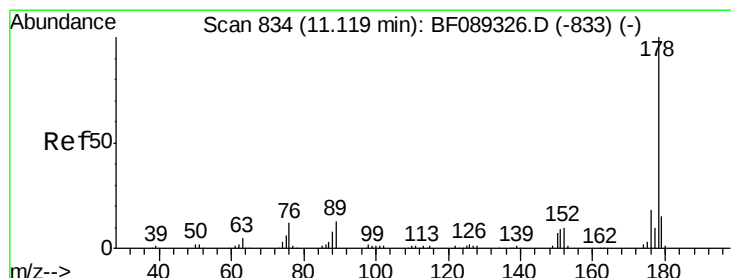
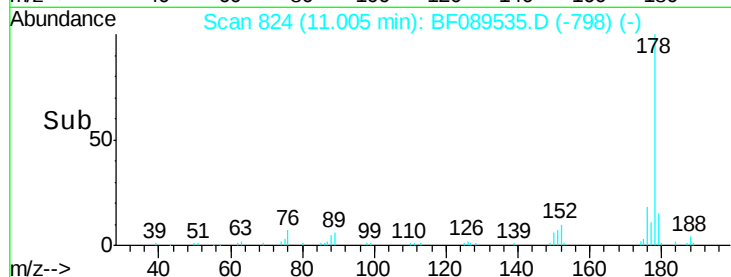
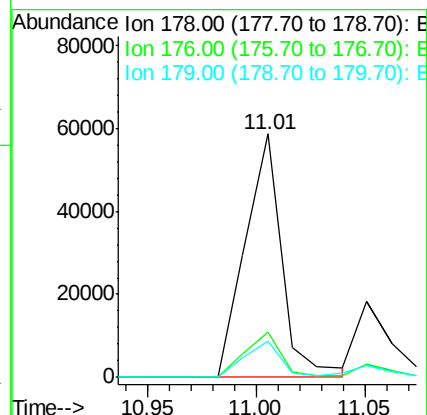
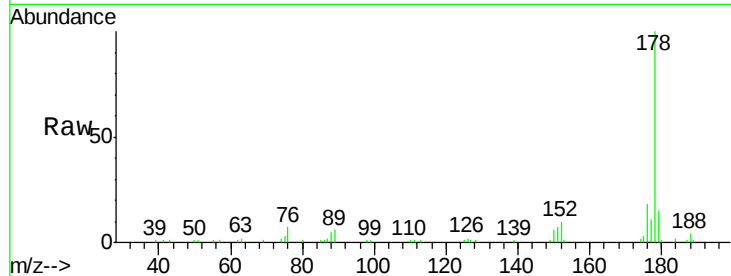




#70
Phenanthrene
Concen: 16.22 ng
RT: 11.01 min Scan# 824
Delta R.T. 0.00 min
Lab File: BF089535.D
Acq: 2 Aug 2016 3:25

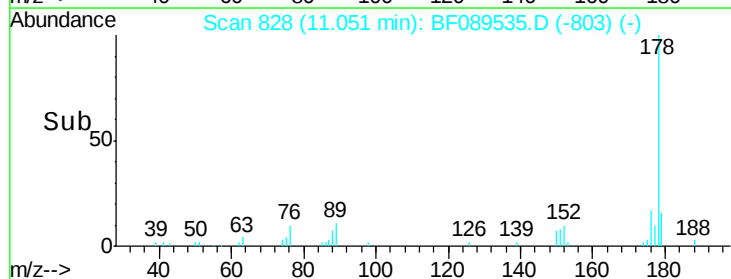
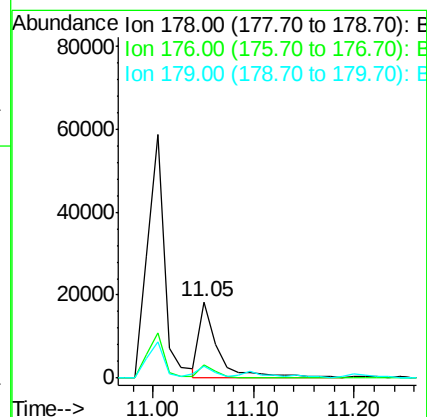
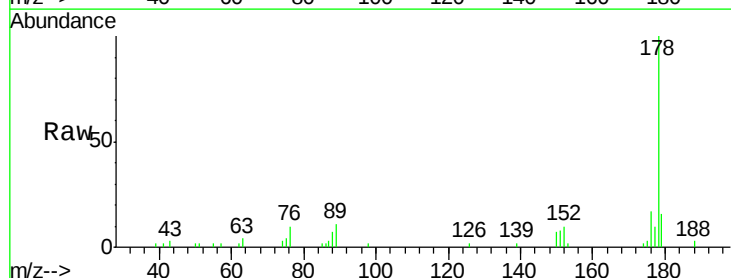
Instrument :
BNA_F
ClientSampleId :
SB-66-0.5-1.5

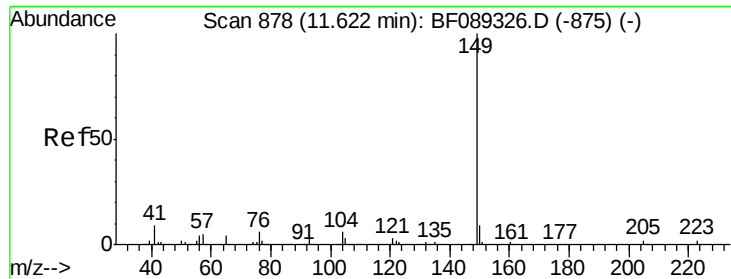
Tgt Ion:178 Resp: 68555
Ion Ratio Lower Upper
178 100
176 18.3 15.5 23.3
179 14.8 12.3 18.5



#71
Anthracene
Concen: 5.27 ng
RT: 11.05 min Scan# 828
Delta R.T. -0.01 min
Lab File: BF089535.D
Acq: 2 Aug 2016 3:25

Tgt Ion:178 Resp: 24790
Ion Ratio Lower Upper
178 100
176 17.3 14.8 22.2
179 16.4 12.6 18.8





#73

Di-n-butylphthalate

Concen: 3.86 ng

RT: 11.57 min Scan# 873

Delta R.T. 0.00 min

Lab File: BF089535.D

Acq: 2 Aug 2016 3:25

Instrument :

BNA_F

ClientSampleId :

SB-66-0.5-1.5

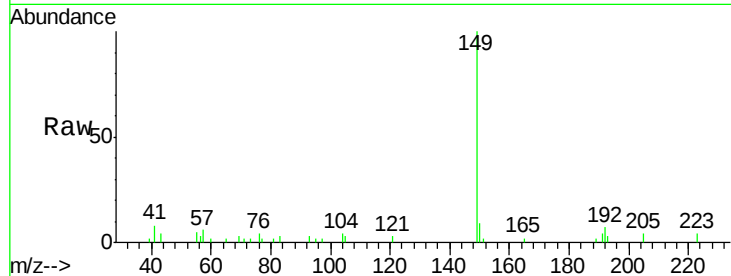
Tgt Ion:149 Resp: 20500

Ion Ratio Lower Upper

149 100

150 8.6 7.4 11.0

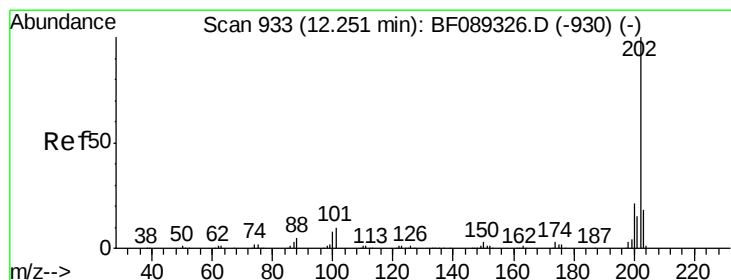
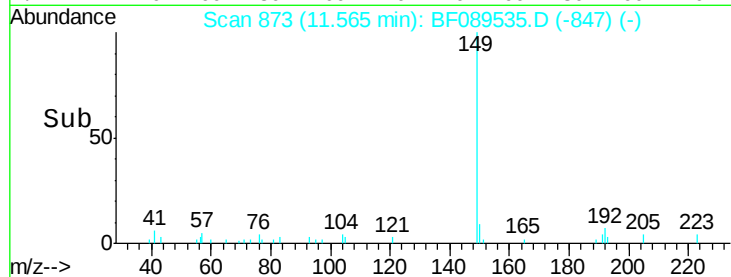
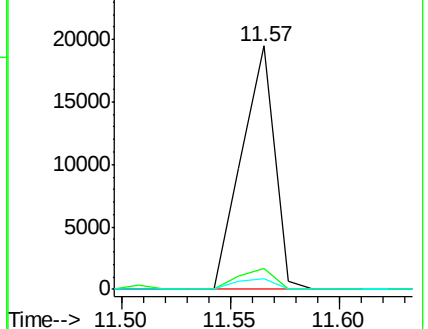
104 4.2 4.7 7.1#



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 104.00 (103.70 to 104.70): E



#74

Fluoranthene

Concen: 34.89 ng

RT: 12.18 min Scan# 927

Delta R.T. 0.00 min

Lab File: BF089535.D

Acq: 2 Aug 2016 3:25

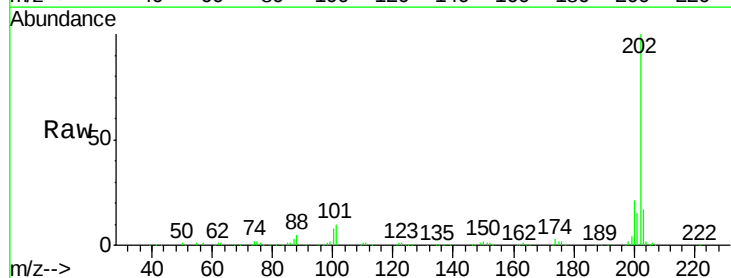
Tgt Ion:202 Resp: 155113

Ion Ratio Lower Upper

202 100

101 10.0 0.0 29.9

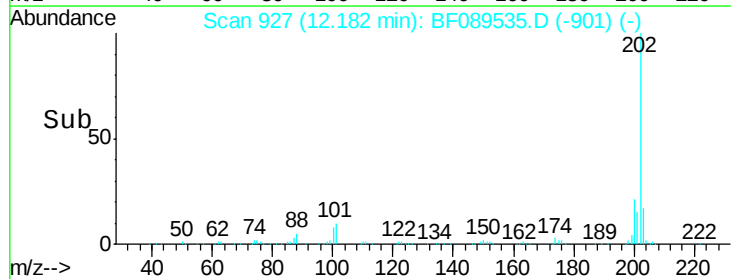
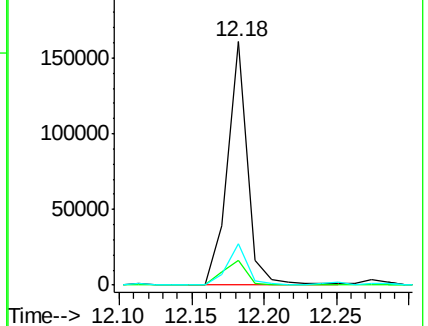
203 17.0 0.0 37.3

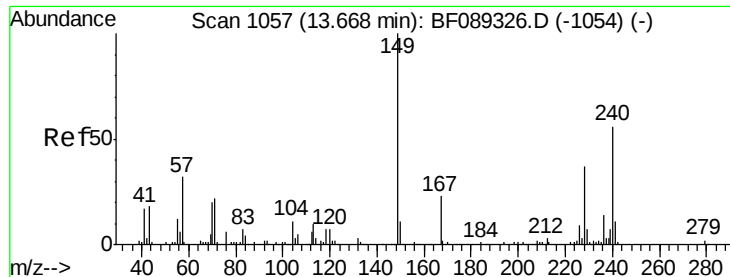


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.60 min Scan# 1051

Delta R.T. -0.01 min

Lab File: BF089535.D

Acq: 2 Aug 2016 3:25

Instrument :

BNA_F

ClientSampleId :

SB-66-0.5-1.5

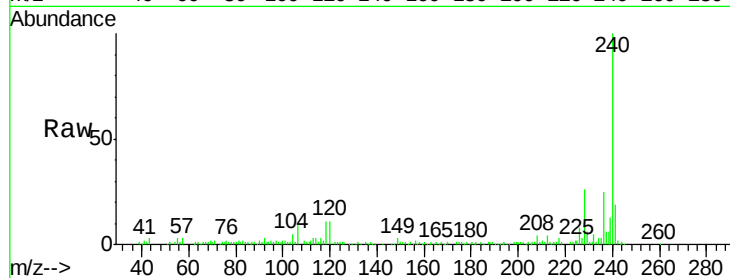
Tgt Ion:240 Resp: 92120

Ion Ratio Lower Upper

240 100

120 11.5 9.1 13.7

236 25.1 20.6 30.8



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

120000

100000

80000

60000

40000

20000

0

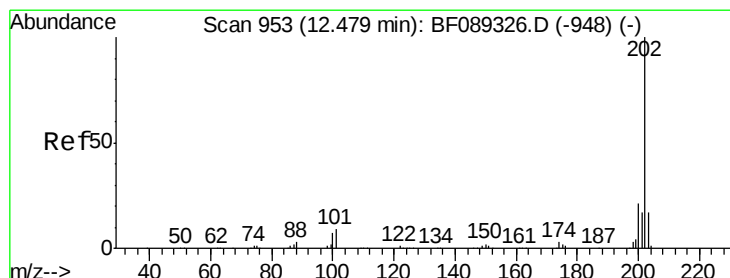
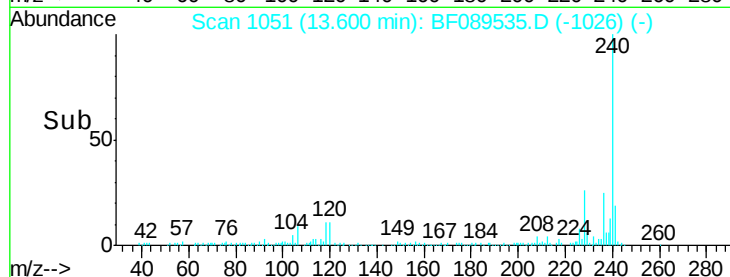
13.50

13.60

13.70

13.80

Time-->



#77

Pyrene

Concen: 20.57 ng

RT: 12.40 min Scan# 946

Delta R.T. -0.01 min

Lab File: BF089535.D

Acq: 2 Aug 2016 3:25

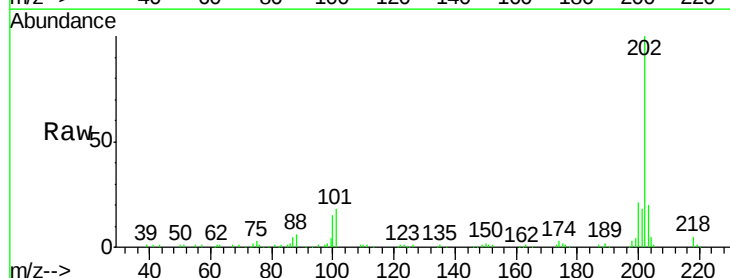
Tgt Ion:202 Resp: 143615

Ion Ratio Lower Upper

202 100

200 20.7 16.9 25.3

203 20.4 14.0 21.0



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

150000

100000

50000

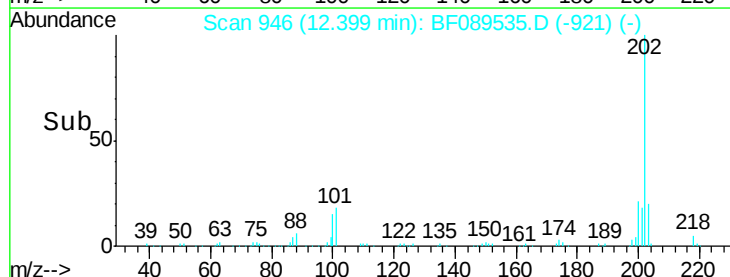
0

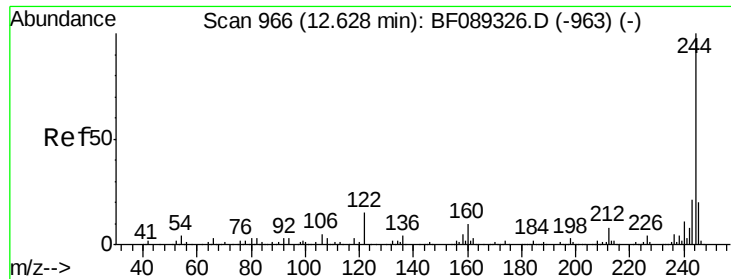
12.30

12.40

12.50

Time-->

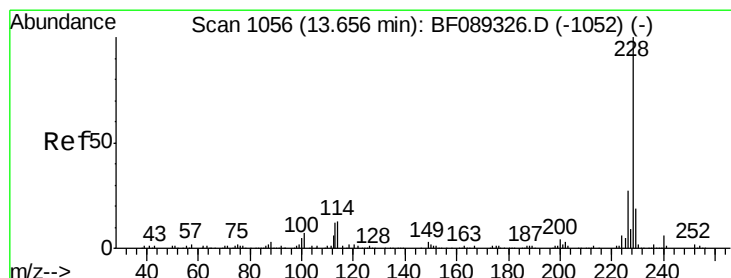
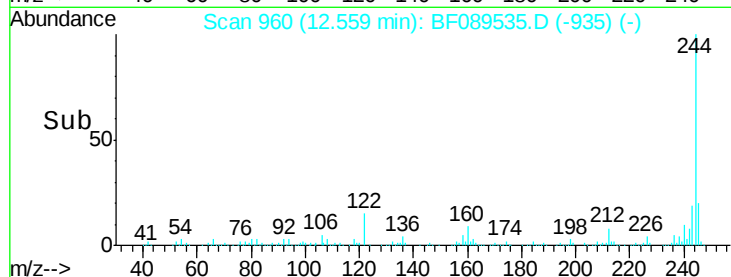
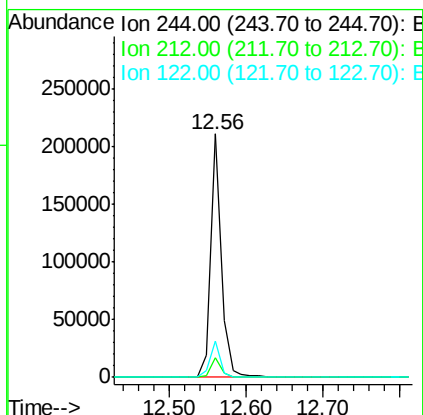
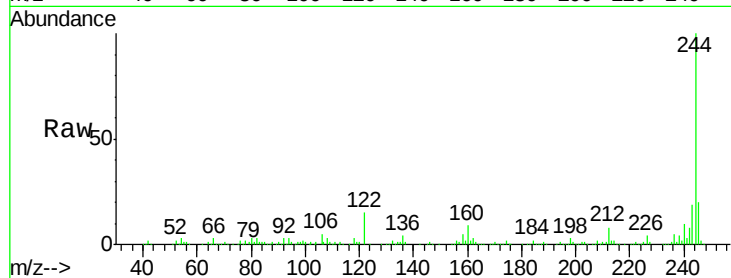




#78
 Terphenyl-d14
 Concen: 51.29 ng
 RT: 12.56 min Scan# 960
 Delta R.T. -0.01 min
 Lab File: BF089535.D
 Acq: 2 Aug 2016 3:25

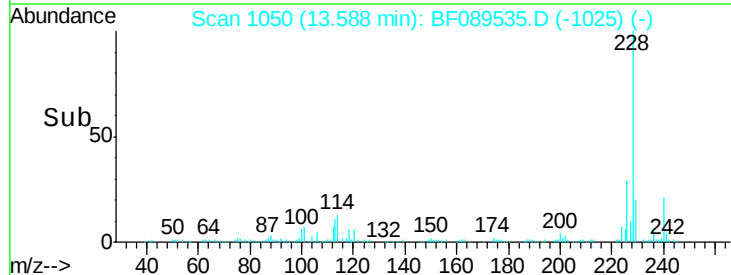
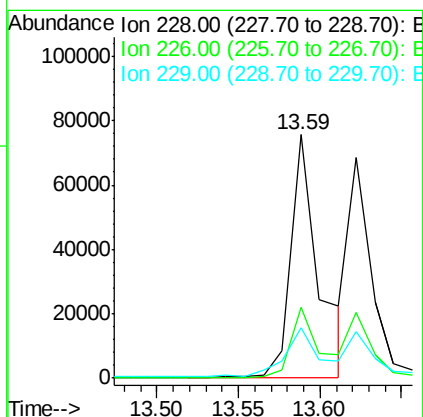
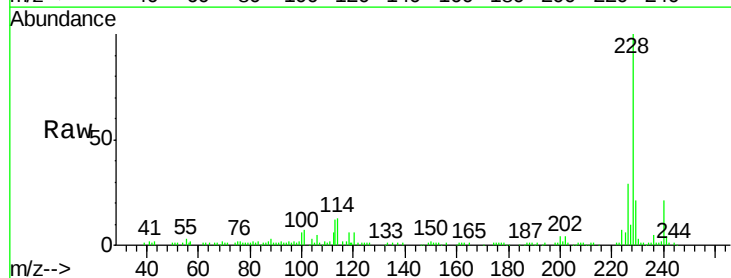
Instrument :
 BNA_F
 ClientSampled :
 SB-66-0.5-1.5

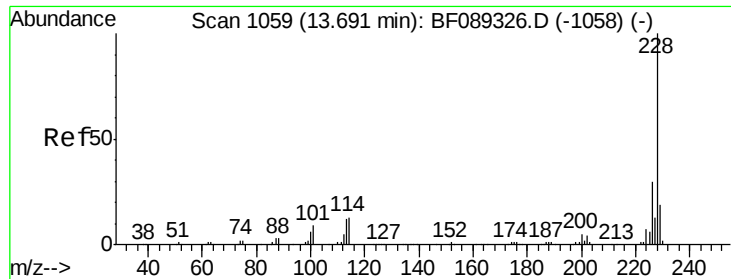
Tgt Ion:244 Resp: 201873
 Ion Ratio Lower Upper
 244 100
 212 8.0 6.5 9.7
 122 14.9 11.4 17.0



#80
 Benzo(a)anthracene
 Concen: 17.47 ng
 RT: 13.59 min Scan# 1050
 Delta R.T. -0.01 min
 Lab File: BF089535.D
 Acq: 2 Aug 2016 3:25

Tgt Ion:228 Resp: 90842
 Ion Ratio Lower Upper
 228 100
 226 29.2 21.4 32.2
 229 20.7 15.9 23.9





#82

Chrysene

Concen: 12.63 ng

RT: 13.62 min Scan# 1053

Delta R.T. -0.01 min

Lab File: BF089535.D

Acq: 2 Aug 2016 3:25

Instrument :

BNA_F

ClientSampleId :

SB-66-0.5-1.5

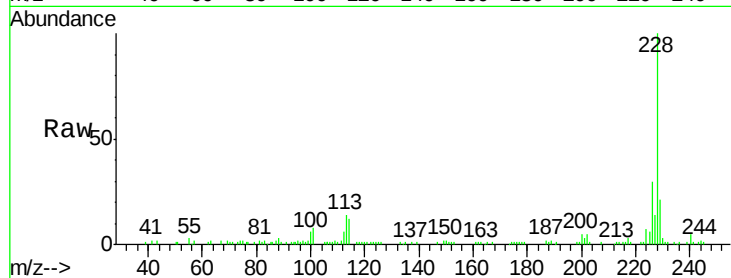
Tgt Ion: 228 Resp: 69917

Ion Ratio Lower Upper

228 100

226 29.6 24.2 36.2

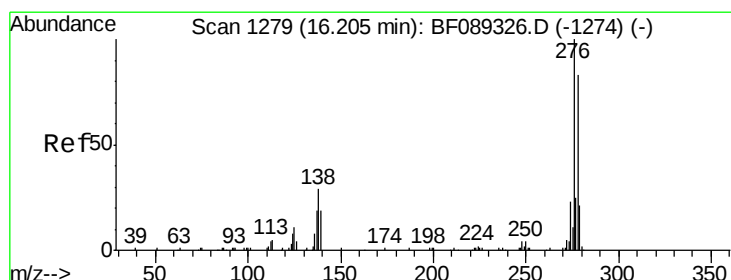
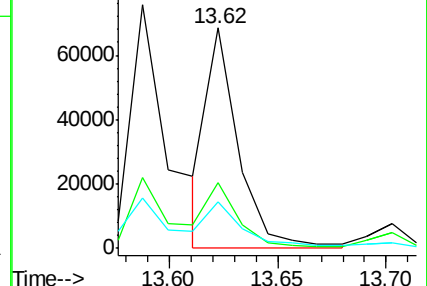
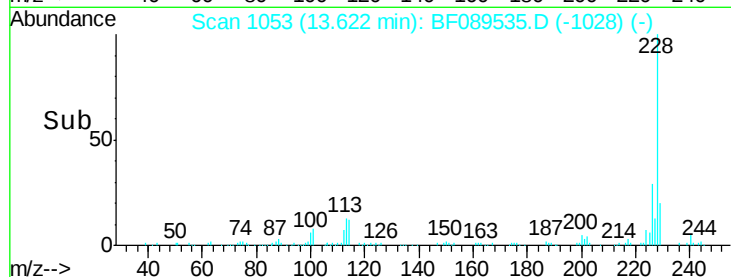
229 21.1 15.9 23.9



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: 9.34 ng

RT: 16.09 min Scan# 1269

Delta R.T. -0.01 min

Lab File: BF089535.D

Acq: 2 Aug 2016 3:25

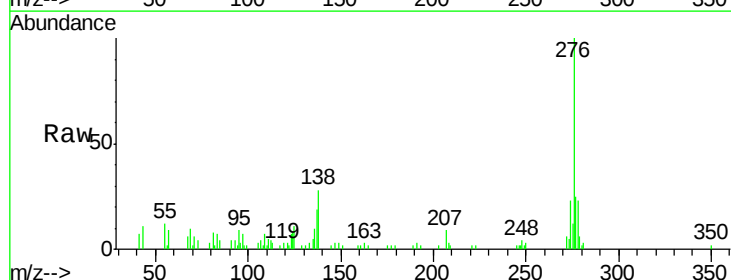
Tgt Ion: 276 Resp: 36733

Ion Ratio Lower Upper

276 100

138 34.5 23.0 34.4#

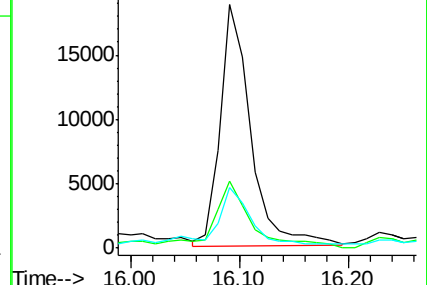
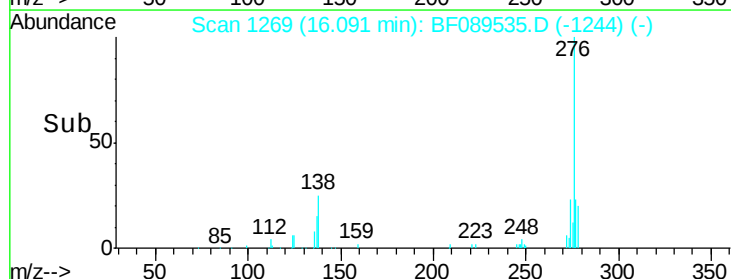
277 34.9 20.2 30.4#

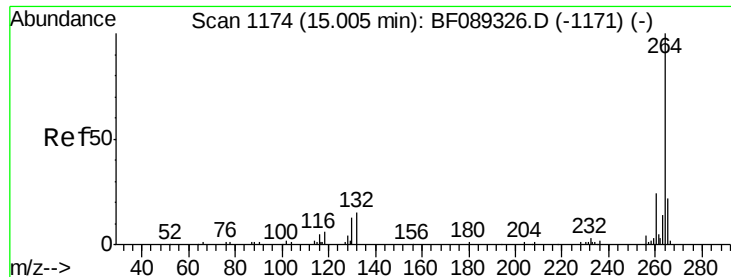


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

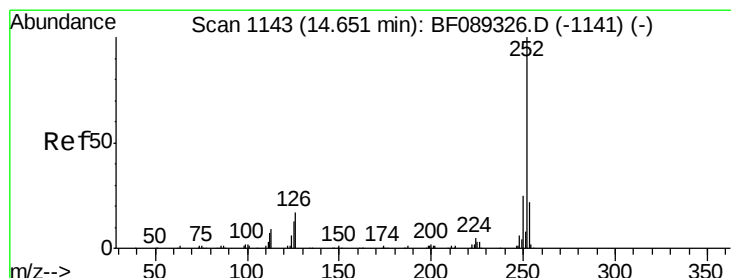
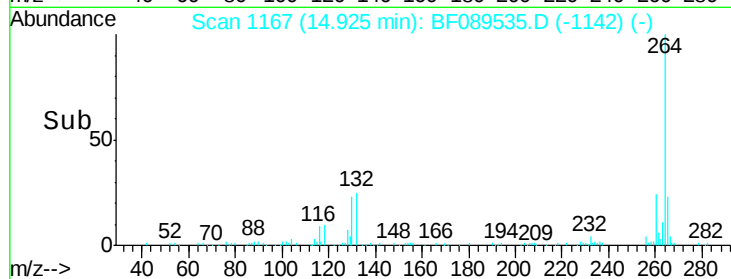
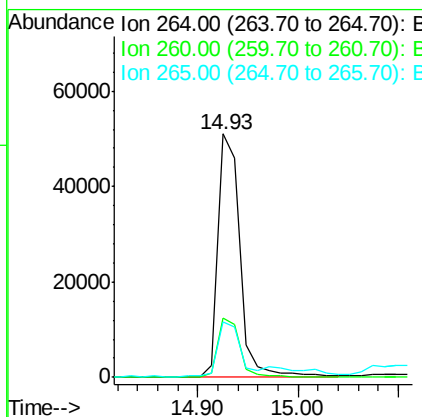
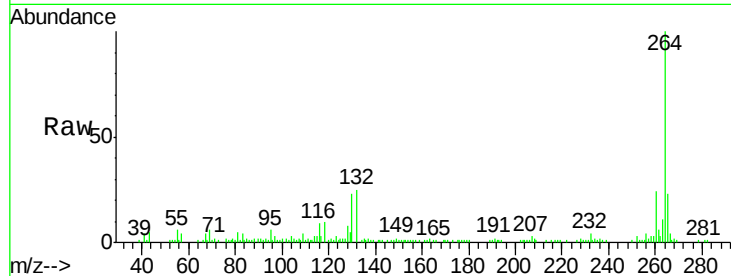




#86
Perylene-d12
Concen: 20.00 ng
RT: 14.93 min Scan# 1167
Delta R.T. -0.01 min
Lab File: BF089535.D
Acq: 2 Aug 2016 3:25

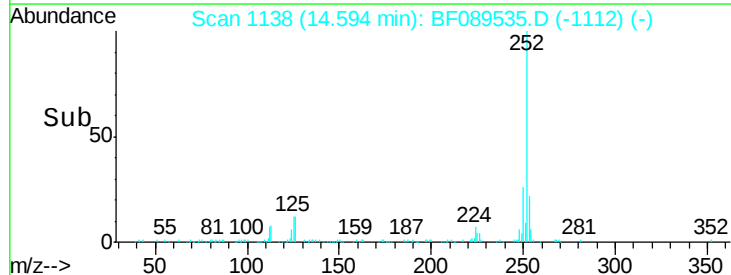
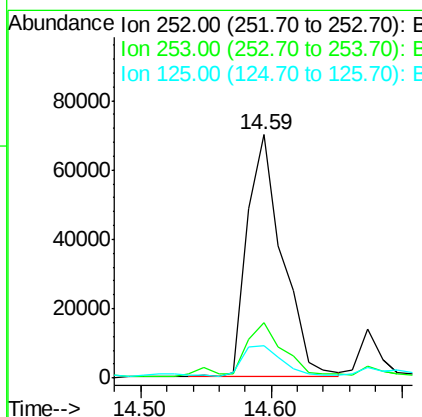
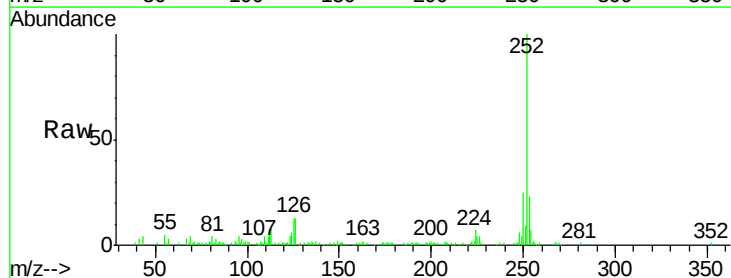
Instrument :
BNA_F
ClientSampleId :
SB-66-0.5-1.5

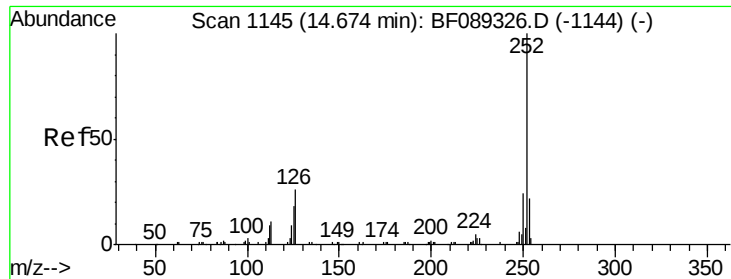
Tgt Ion:264 Resp: 78110
Ion Ratio Lower Upper
264 100
260 24.4 19.0 28.4
265 23.0 17.5 26.3



#87
Benzo(b)fluoranthene
Concen: 26.95 ng
RT: 14.59 min Scan# 1138
Delta R.T. 0.00 min
Lab File: BF089535.D
Acq: 2 Aug 2016 3:25

Tgt Ion:252 Resp: 130716
Ion Ratio Lower Upper
252 100
253 22.9 17.2 25.8
125 13.2 9.7 14.5

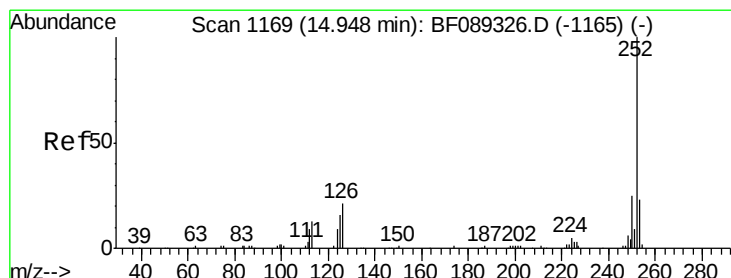
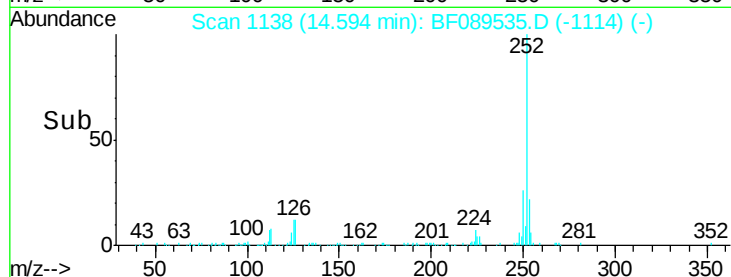
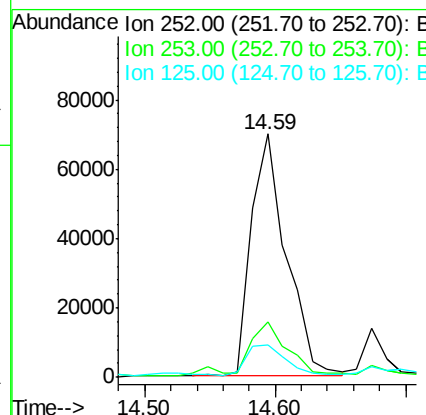
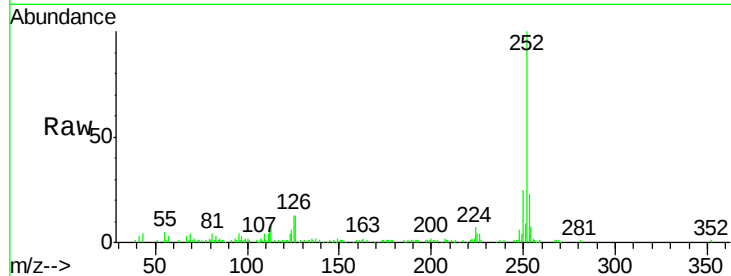




#88
Benzo(k)fluoranthene
Concen: 29.31 ng
RT: 14.59 min Scan# 1138
Delta R.T. -0.02 min
Lab File: BF089535.D
Acq: 2 Aug 2016 3:25

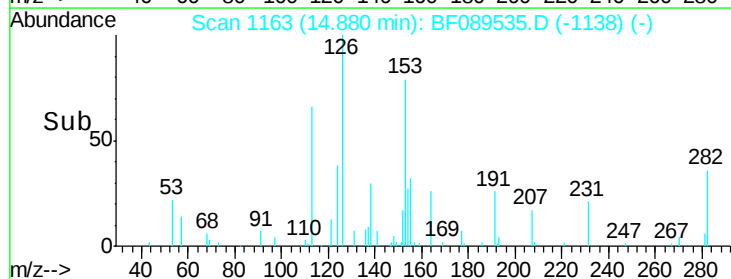
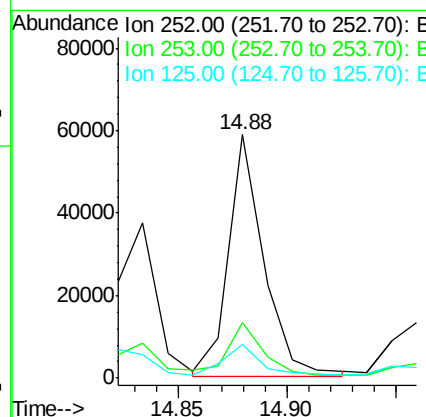
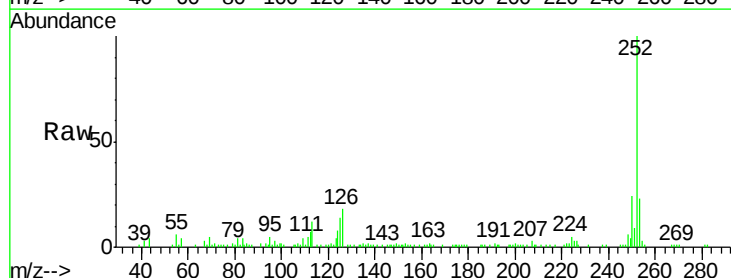
Instrument :
BNA_F
ClientSampleId :
SB-66-0.5-1.5

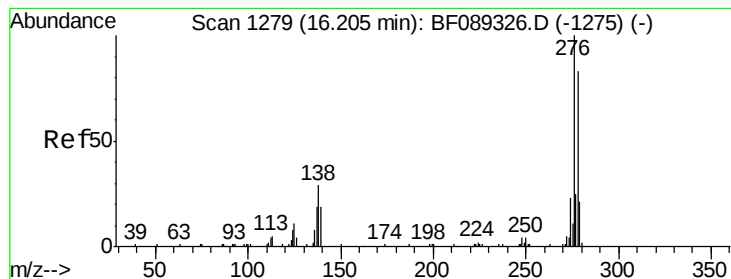
Tgt Ion:252 Resp: 130716
Ion Ratio Lower Upper
252 100
253 22.9 17.8 26.8
125 13.2 10.7 16.1



#89
Benzo(a)pyrene
Concen: 15.26 ng
RT: 14.88 min Scan# 1163
Delta R.T. -0.01 min
Lab File: BF089535.D
Acq: 2 Aug 2016 3:25

Tgt Ion:252 Resp: 66406
Ion Ratio Lower Upper
252 100
253 22.9 17.4 26.2
125 14.1 12.4 18.6





#90

Dibenzo(a,h)anthracene

Concen: 4.02 ng

RT: 16.09 min Scan# 1269

Delta R.T. -0.02 min

Lab File: BF089535.D

Acq: 2 Aug 2016 3:25

Instrument :

BNA_F

ClientSampleId :

SB-66-0.5-1.5

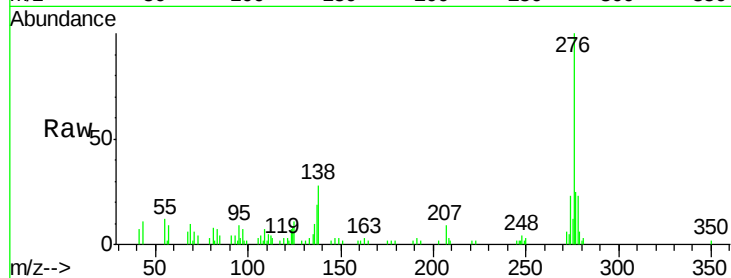
Tgt Ion: 278 Resp: 13788

Ion Ratio Lower Upper

278 100

139 0.0 16.3 24.5#

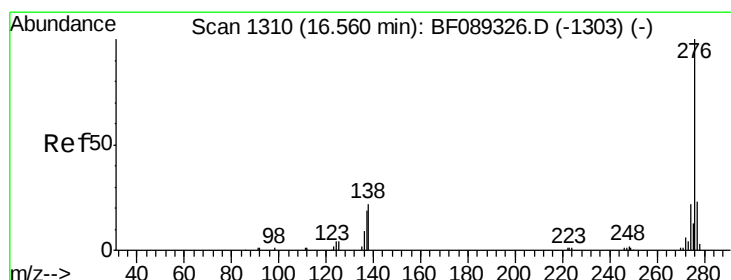
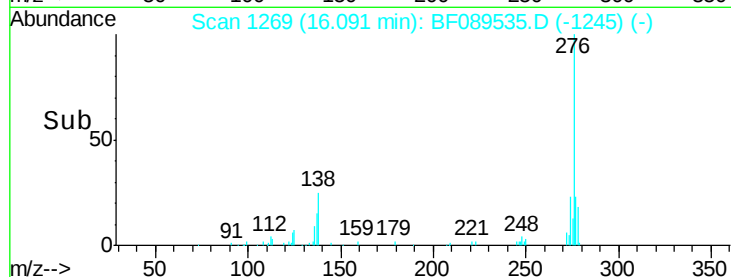
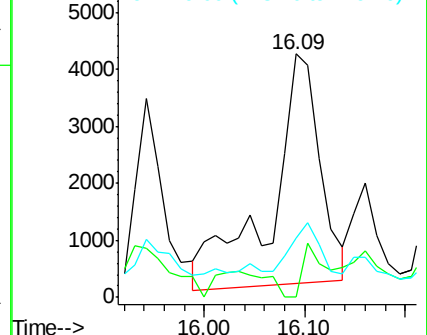
279 24.4 19.1 28.7



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#91

Benzo(g,h,i)perylene

Concen: 10.75 ng

RT: 16.43 min Scan# 1299

Delta R.T. -0.01 min

Lab File: BF089535.D

Acq: 2 Aug 2016 3:25

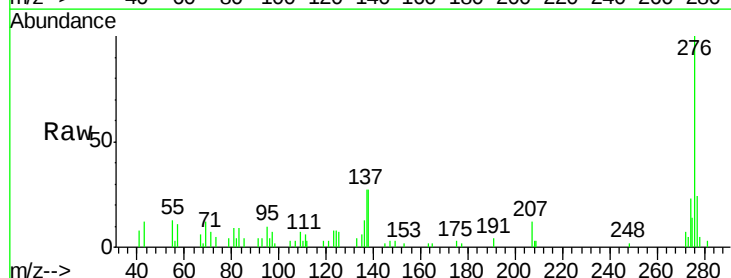
Tgt Ion: 276 Resp: 36230

Ion Ratio Lower Upper

276 100

277 24.2 18.6 28.0

138 27.2 21.4 32.0



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

