

Data Path : \\74.0.250.170\svoasrv\HPCHEM1\BNA F\Data\BF081616\
 Data File : BF089751.D
 Acq On : 17 Aug 2016 9:06
 Operator : UM/SJ
 Sample : H4145-12
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

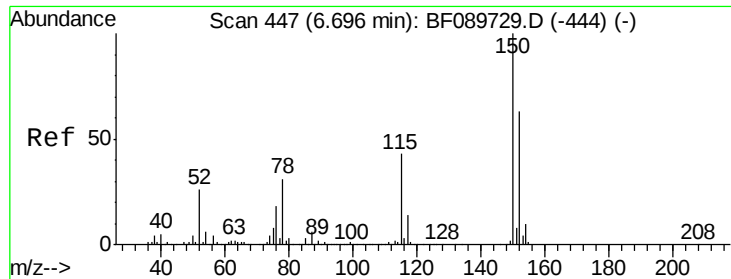
Instrument :
 BNA_F
 ClientSampleId :
 9535

Quant Time: Aug 17 10:40:23 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081616.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Aug 16 19:45:04 2016
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	

Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.696	152	674070	20.00	ng	0.00	
21) Naphthalene-d8	7.987	136	2827598	20.00	ng	0.00	
38) Acenaphthene-d10	9.736	164	1339822	20.00	ng	0.00	
63) Phenanthrene-d10	11.211	188	2324576	20.00	ng	0.00	
75) Chrysene-d12	13.908	240	2026258	20.00	ng	0.01	
86) Perylene-d12	15.428	264	1642410	20.00	ng	0.02	
System Monitoring Compounds							
5) 2-Fluorophenol	5.290	112	4595784	113.76	ng	0.01	
7) Phenol-d6	6.353	99	6597031	128.38	ng	0.02	
23) Nitrobenzene-d5	7.267	82	3530006	76.23	ng	0.00	
41) 2,4,6-Tribromophenol	10.525	330	1551614	119.71	ng	0.00	
44) 2-Fluorobiphenyl	9.073	172	6158812	73.76	ng	0.00	
78) Terphenyl-d14	12.811	244	6112905	90.13	ng	0.00	
Target Compounds							Qvalue
8) 2-Chlorophenol	6.490	128	2396638	49.87	ng	#	80
9) Benzaldehyde	6.467	77	122460	3.60	ng		83
10) Phenol	6.364	94	6052650	94.63	ng		86
17) 2-Methylphenol	7.130	107	6904140	180.84	ng	#	70
19) n-Nitroso-di-n-propyla...	7.267	70	490817	14.58	ng	#	75
20) 3+4-Methylphenols	7.130	107	6904140	141.21	ng	#	45
24) Nitrobenzene	7.119	77	1995428	38.31	ng	#	44
26) 2-Nitrophenol	7.610	139	2172365	88.63	ng	#	91
28) bis(2-Chloroethoxy)met...	7.610	93	241217	4.28	ng	#	61
29) 2,4-Dichlorophenol	7.850	162	4318640	111.65	ng		97
31) Naphthalene	8.079	128	414314	3.26	ng	#	81
35) Caprolactam	8.536	113	70090	5.88	ng	#	25
36) 4-Chloro-3-methylphenol	8.536	107	2446358	58.10	ng		93
37) 2-Methylnaphthalene	8.536	142	2115012	24.48	ng	#	24
42) 2,4,6-Trichlorophenol	8.982	196	5327742	191.48	ng		98
43) 2,4,5-Trichlorophenol	8.982	196	5328590	200.85	ng	#	83
46) 2-Chloronaphthalene	8.982	162	450048	5.41	ng	#	55
50) 2,6-Dinitrotoluene	9.736	165	180069	8.21	ng	#	26
51) Acenaphthene	9.793	154	520192	6.02	ng	#	5
53) 2,4-Dinitrophenol	9.793	184	763224	77.93	ng		94
55) 4-Nitrophenol	9.862	139	2753267	140.29	ng		91
56) 2,4-Dinitrotoluene	9.736	165	180069	6.38	ng	#	35
64) 4,6-Dinitro-2-methylph...	10.330	198	894962	66.31	ng		96
66) 4-Bromophenyl-phenylether	10.525	248	95321	3.96	ng	#	1
68) Atrazine	11.028	200	411079	18.60	ng	#	38
69) Pentachlorophenol	11.028	266	1924704	115.45	ng		97

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



#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.696 min Scan# 44

Delta R.T. -0.000 min

Lab File: BF089751.D

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Instrument :

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ClientSampleId :

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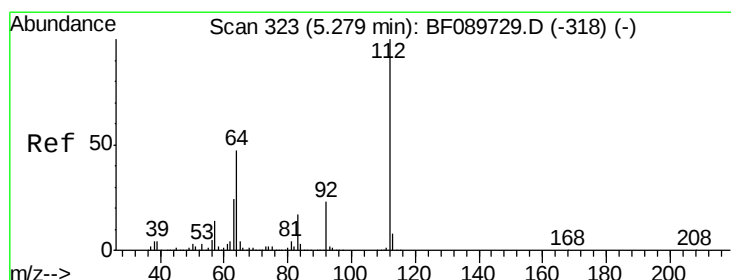
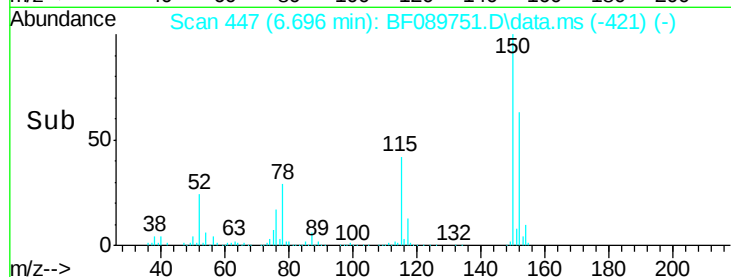
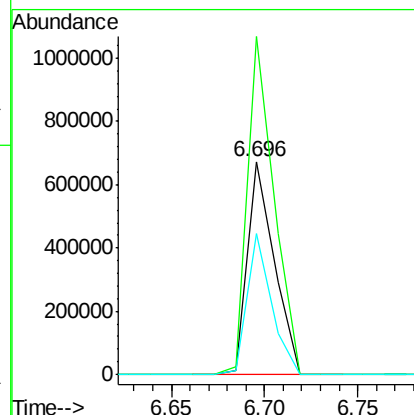
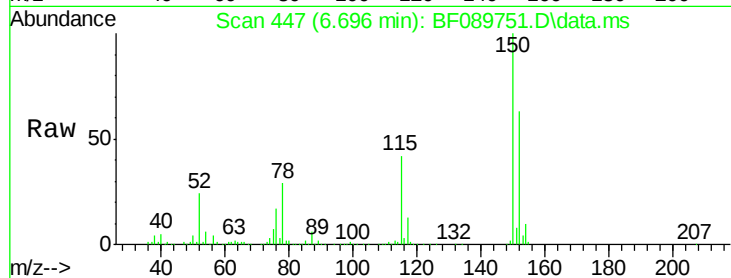
Tot Ion:152 Resp: 674070

Ion Ratio Lower Upper

152 100

150 158.6 125.3 187.9

115 65.8 40.9 61.3#



#5

2-Fluorophenol

Concen: 113.76 ng

RT: 5.290 min Scan# 324

Delta R.T. 0.012 min

Lab File: BF089751.D

Acq: 17 Aug 2016 9:06

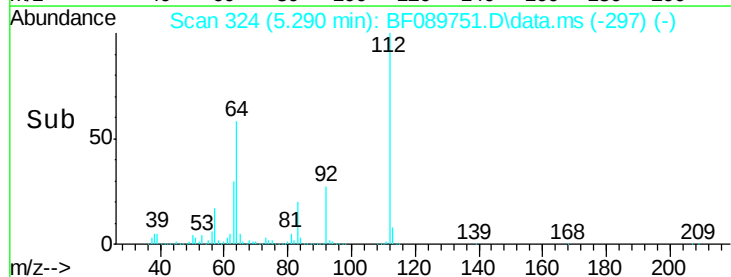
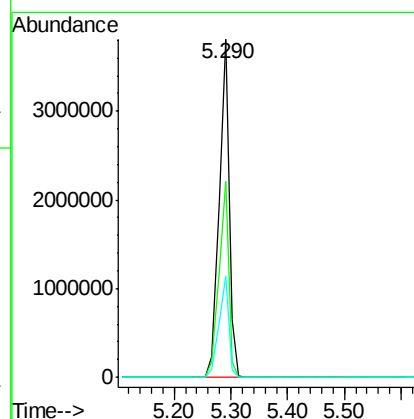
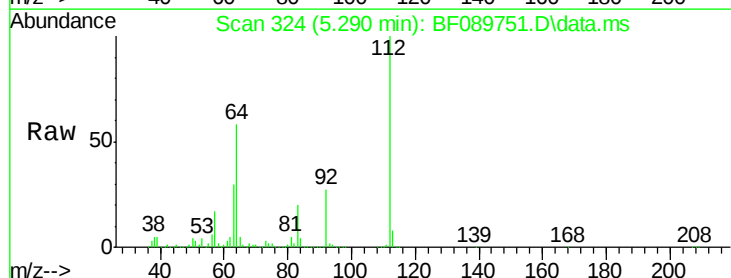
Tgt Ion:112 Resp: 4595784

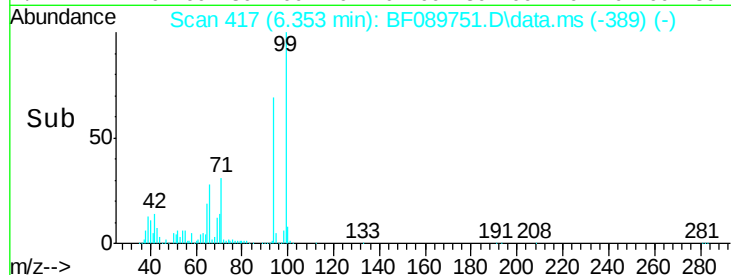
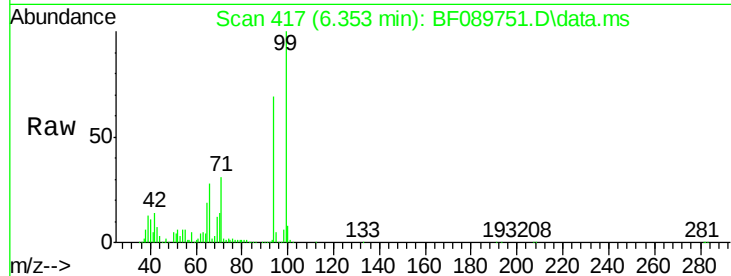
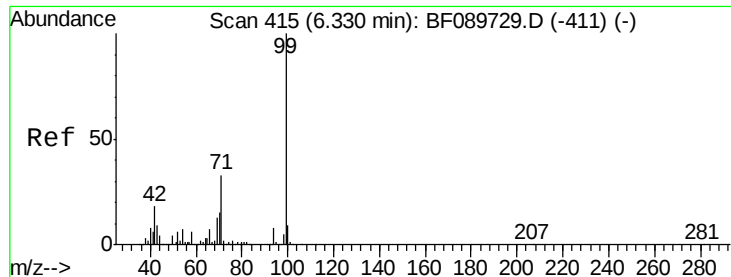
Ion Ratio Lower Upper

112 100

64 57.9 45.0 67.4

63 30.0 23.1 34.7





#7

Phenol-d6

Concen: 128.38 ng

RT: 6.353 min Scan# 41

Delta R.T. 0.023 min

Lab File: BF089751.D

Acq: 17 Aug 2016 9:06

Instrument :

BNA_F

ClientSampleId :

9535

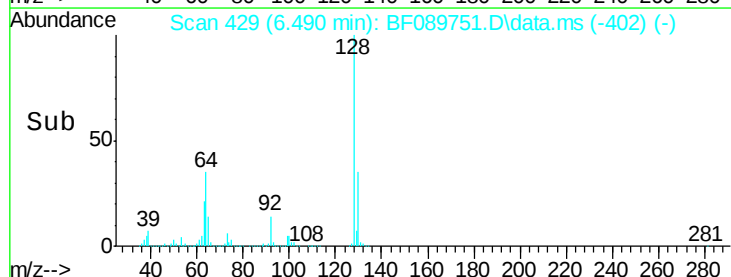
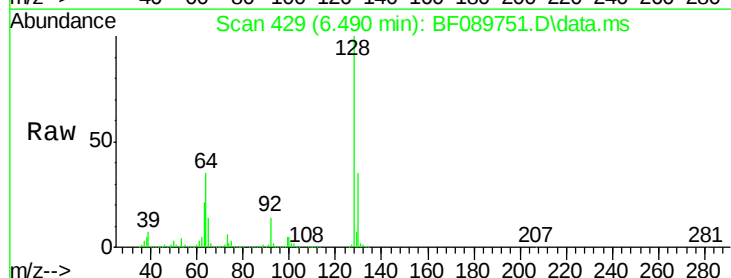
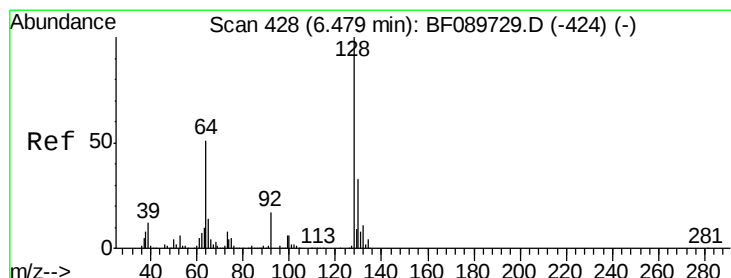
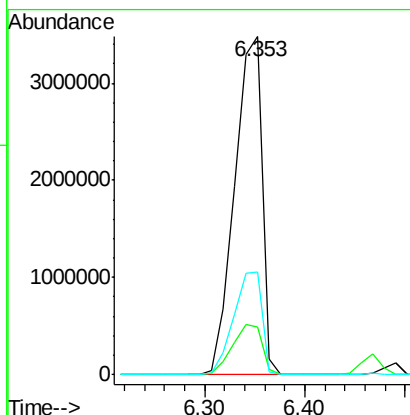
Tot Ion: 99 Resp: 6597031

Ion Ratio Lower Upper

99 100

42 13.9 12.2 18.4

71 30.5 23.8 35.8



#8

2-Chlorophenol

Concen: 49.87 ng

RT: 6.490 min Scan# 429

Delta R.T. 0.011 min

Lab File: BF089751.D

Acq: 17 Aug 2016 9:06

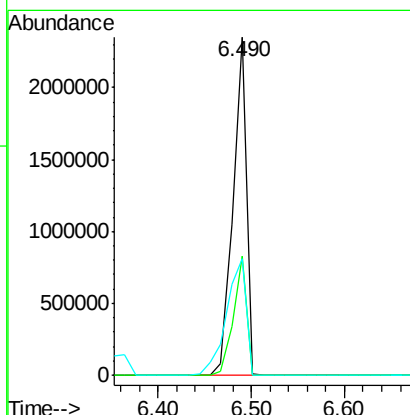
Tgt Ion:128 Resp: 2396638

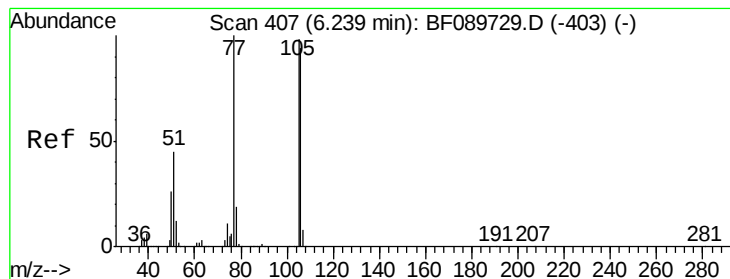
Ion Ratio Lower Upper

128 100

130 35.3 12.0 52.0

64 34.6 35.1 75.1#





#9

Benzaldehyde

Concen: 3.60 ng

RT: 6.467 min Scan# 42

Delta R.T. 0.229 min

Lab File: BF089751.D

Acq: 17 Aug 2016 9:06

Instrument :

BNA_F

ClientSampleId :

9535

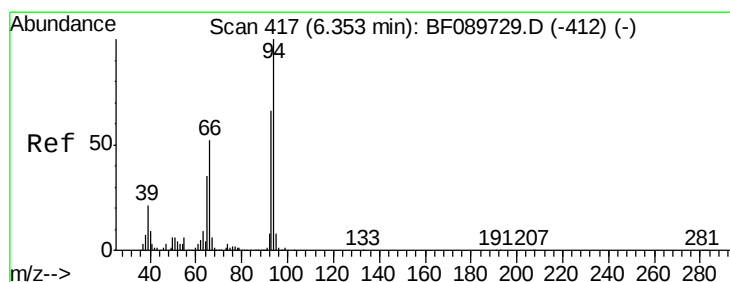
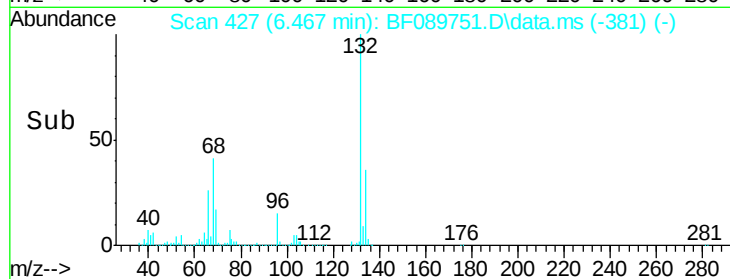
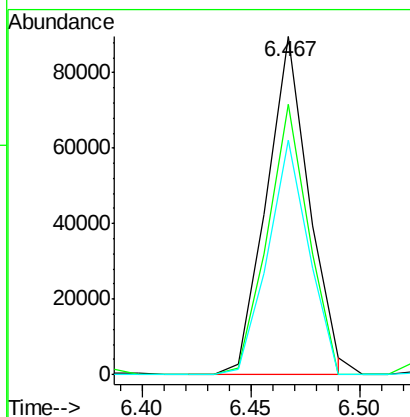
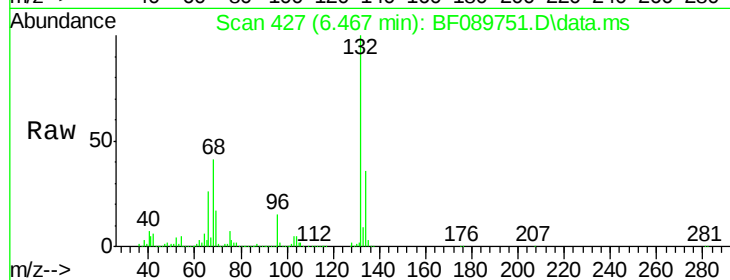
Tot Ion: 77 Resp: 122460

Ion Ratio Lower Upper

77 100

105 80.0 73.3 113.3

106 69.3 68.6 108.6



#10

Phenol

Concen: 94.63 ng

RT: 6.364 min Scan# 418

Delta R.T. 0.011 min

Lab File: BF089751.D

Acq: 17 Aug 2016 9:06

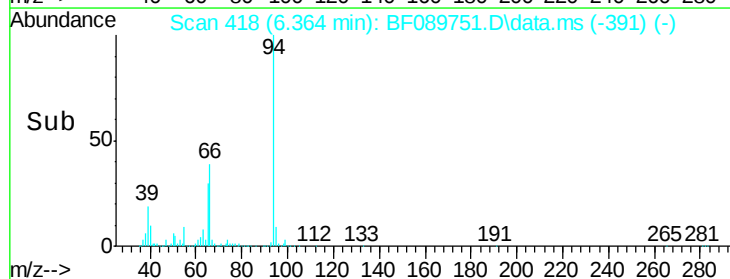
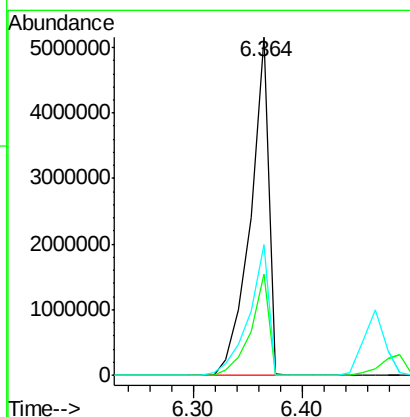
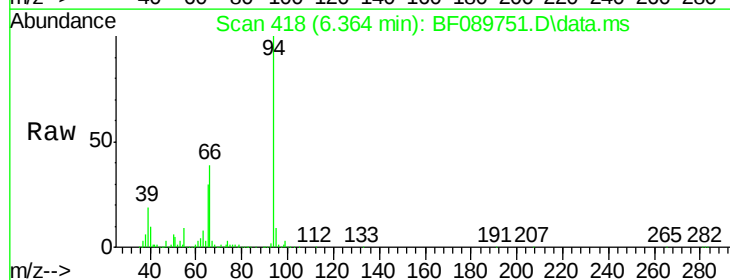
Tgt Ion: 94 Resp: 6052650

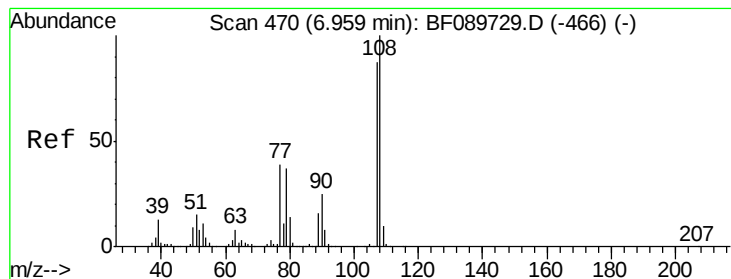
Ion Ratio Lower Upper

94 100

65 30.1 14.0 54.0

66 38.6 31.2 71.2





#17

2-Methylphenol

Concen: 180.84 ng

RT: 7.130 min Scan# 48

Delta R.T. 0.171 min

Lab File: BF089751.D

Acq: 17 Aug 2016 9:06

Instrument :

BNA_F

ClientSampleId :
9535

Tot Ion:107 Resp: 6904140

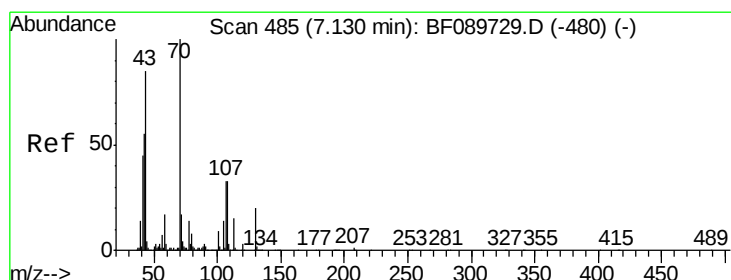
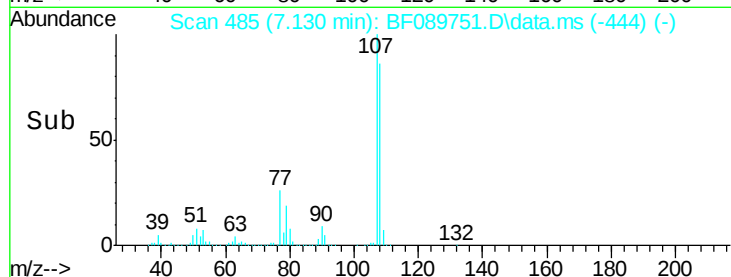
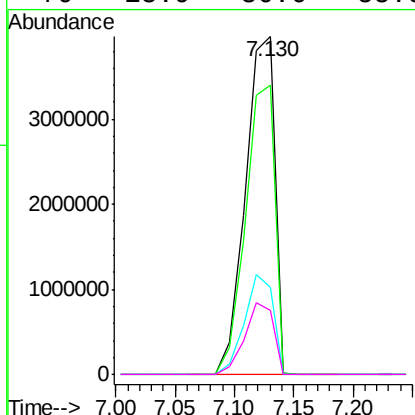
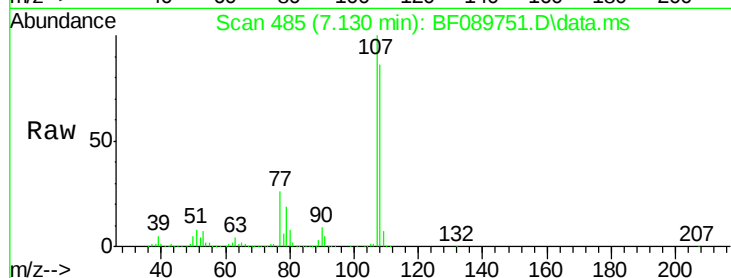
Ion Ratio Lower Upper

107 100

108 85.7 91.0 136.4#

77 26.0 37.4 56.0#

79 18.9 36.6 55.0#



#19

n-Nitroso-di-n-propylamine

Concen: 14.58 ng

RT: 7.267 min Scan# 497

Delta R.T. 0.137 min

Lab File: BF089751.D

Acq: 17 Aug 2016 9:06

Tgt Ion: 70 Resp: 490817

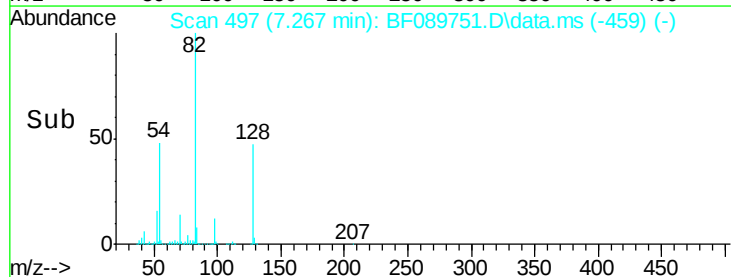
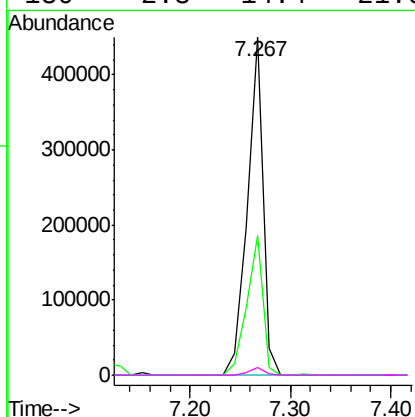
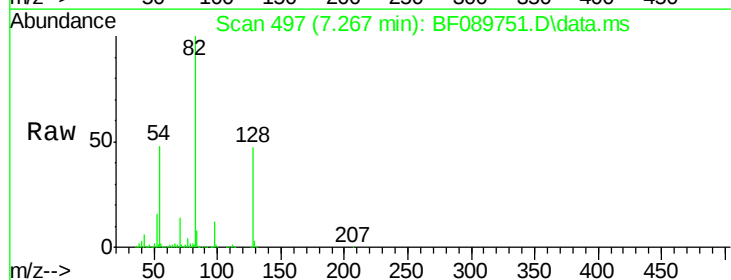
Ion Ratio Lower Upper

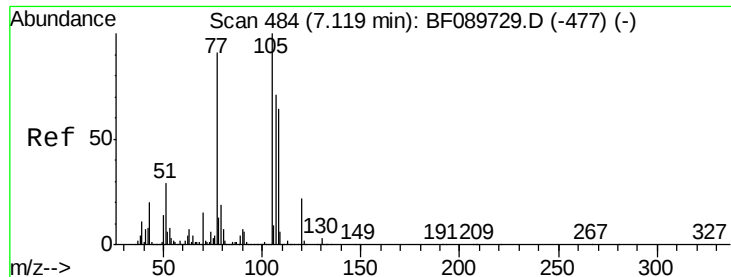
70 100

42 41.3 46.3 69.5#

101 0.0 7.0 10.6#

130 2.3 14.4 21.6#





#20

3+4-Methylphenols

Concen: 141.21 ng

RT: 7.130 min Scan# 48

Delta R.T. 0.012 min

Lab File: BF089751.D

Acq: 17 Aug 2016 9:06

Instrument :

BNA_F

ClientSampleId :

9535

Tot Ion:107 Resp: 6904140

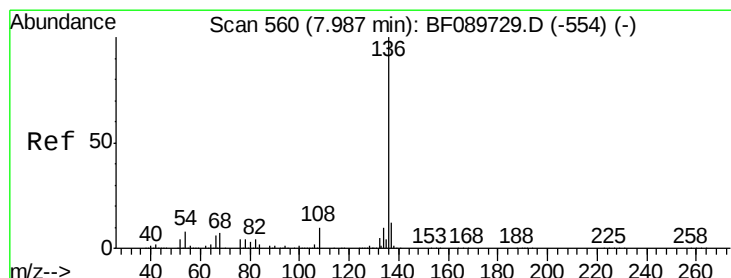
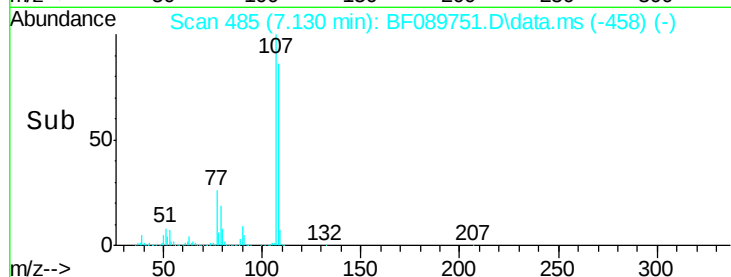
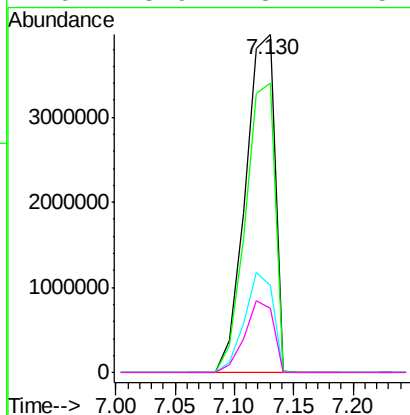
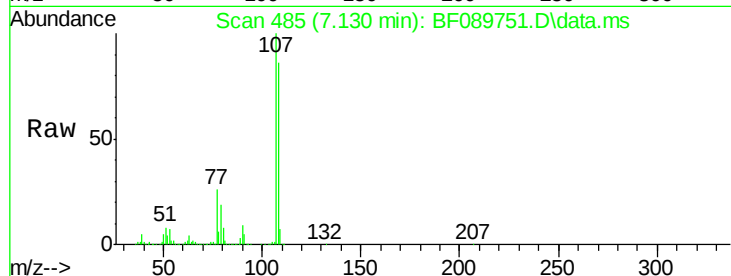
Ion Ratio Lower Upper

107 100

108 85.7 68.2 108.2

77 26.0 122.3 162.3#

79 18.9 8.2 48.2



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.987 min Scan# 560

Delta R.T. -0.000 min

Lab File: BF089751.D

Acq: 17 Aug 2016 9:06

Tgt Ion:136 Resp: 2827598

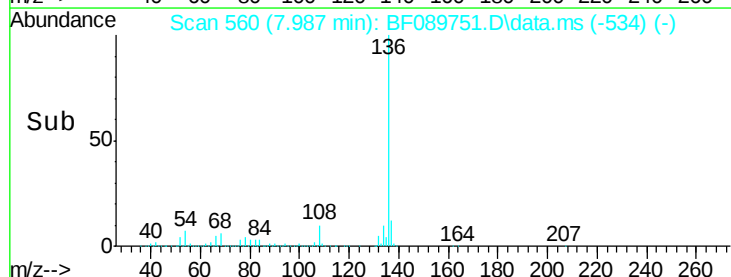
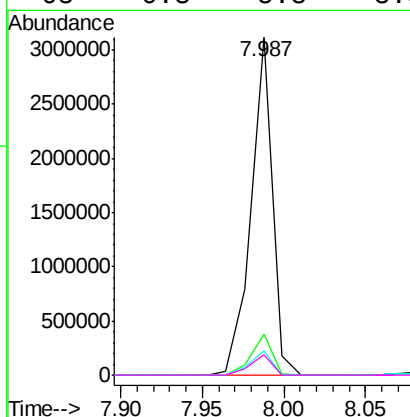
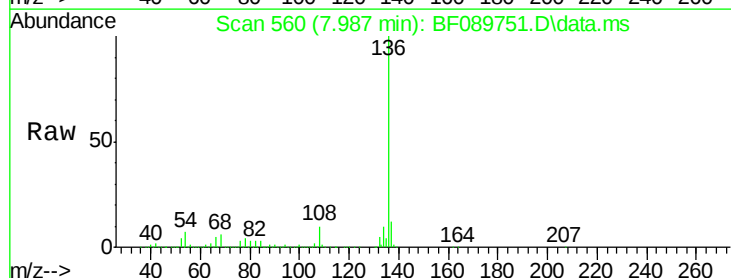
Ion Ratio Lower Upper

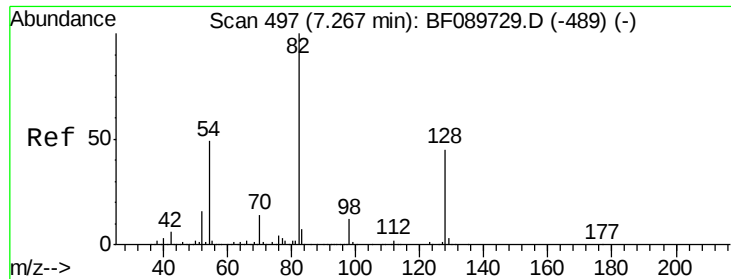
136 100

137 12.0 9.2 13.8

54 7.1 7.2 10.8#

68 6.3 5.8 8.8

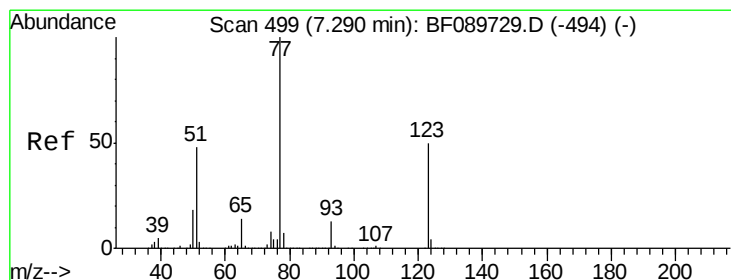
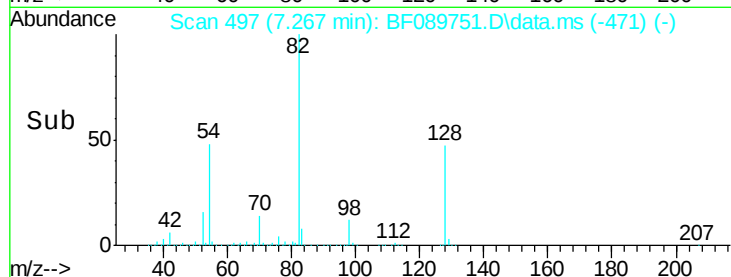
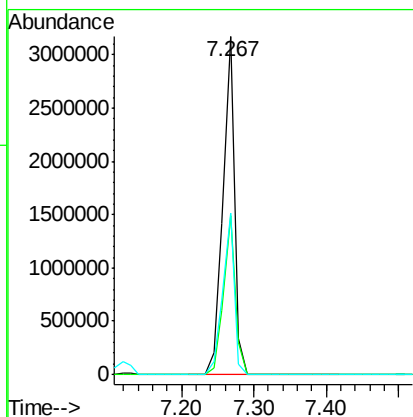
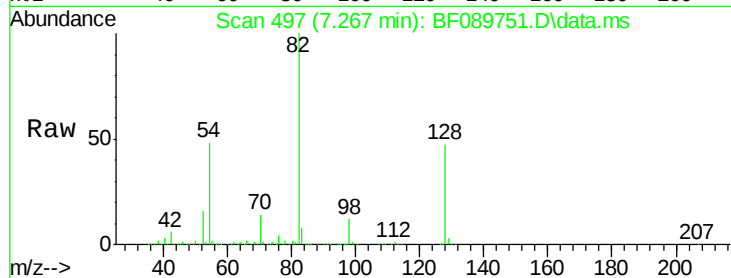




#23
Nitrobenzene-d5
Concen: 76.23 ng
RT: 7.267 min Scan# 49
Delta R.T. -0.000 min
Lab File: BF089751.D
Acq: 17 Aug 2016 9:06

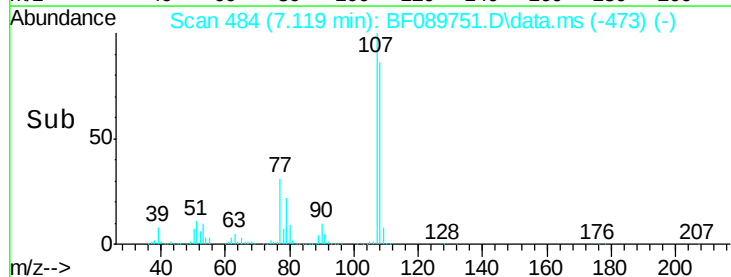
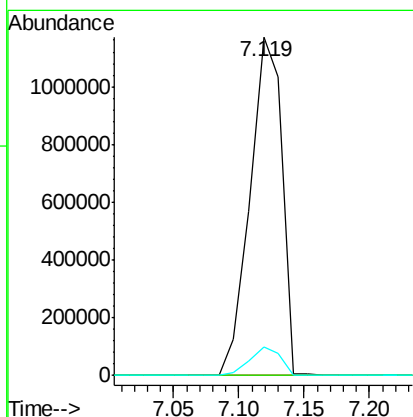
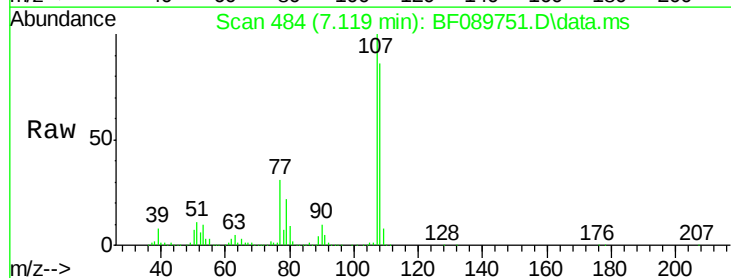
Instrument :
BNA_F
ClientSampleId :
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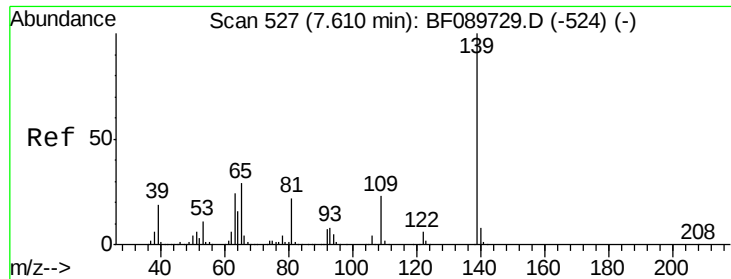
Tot Ion: 82 Resp: 3530006
Ion Ratio Lower Upper
82 100
128 46.8 34.4 51.6
54 47.6 40.3 60.5



#24
Nitrobenzene
Concen: 38.31 ng
RT: 7.119 min Scan# 484
Delta R.T. -0.171 min
Lab File: BF089751.D
Acq: 17 Aug 2016 9:06

Tgt Ion: 77 Resp: 1995428
Ion Ratio Lower Upper
77 100
123 0.0 36.2 54.2#
65 8.3 10.6 15.8#

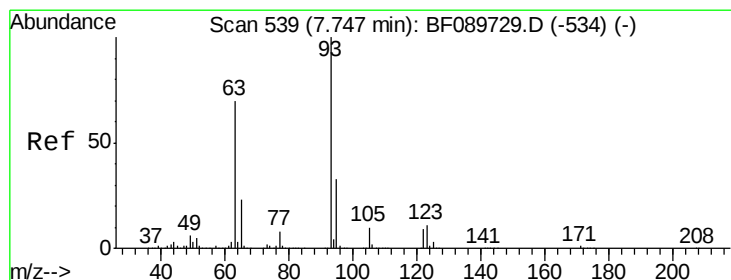
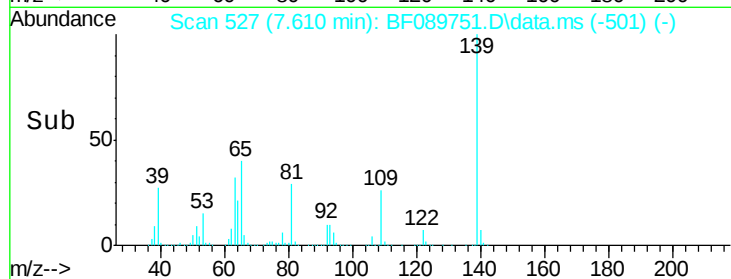
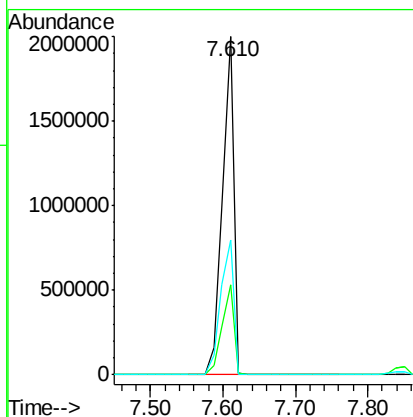
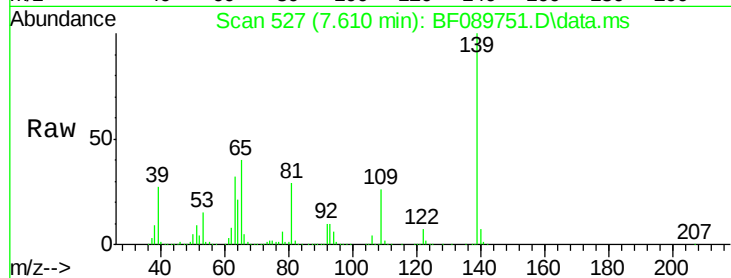




#26
2-Nitrophenol
Concen: 88.63 ng
RT: 7.610 min Scan# 527
Delta R.T. -0.000 min
Lab File: BF089751.D
Acq: 17 Aug 2016 9:06

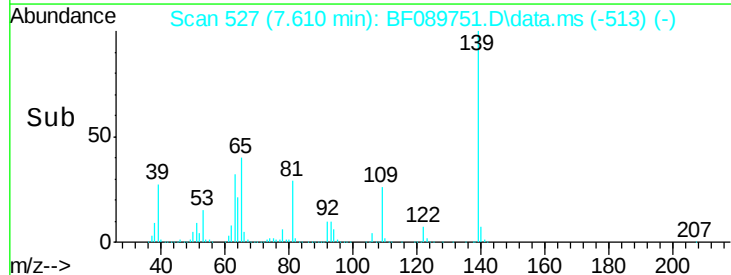
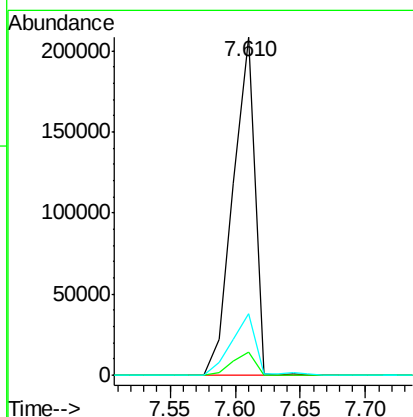
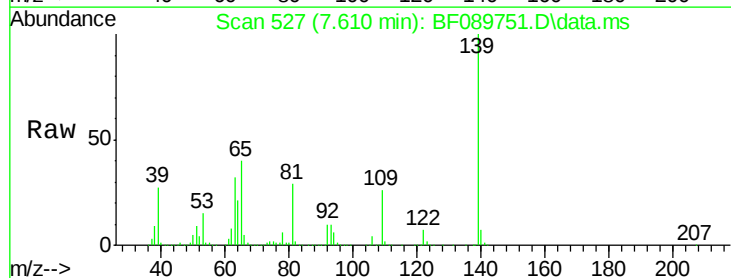
Instrument :
BNA_F
ClientSampleId :
9535

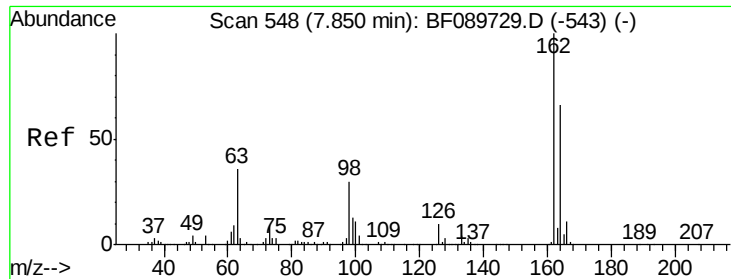
Tot Ion	Ratio	Lower	Upper
139	100		
109	26.4	19.5	29.3
65	40.0	26.5	39.7#



#28
bis(2-Chloroethoxy)methane
Concen: 4.28 ng
RT: 7.610 min Scan# 527
Delta R.T. -0.137 min
Lab File: BF089751.D
Acq: 17 Aug 2016 9:06

Tgt Ion	Ratio	Lower	Upper
93	100		
95	6.9	25.5	38.3#
123	18.1	8.5	12.7#

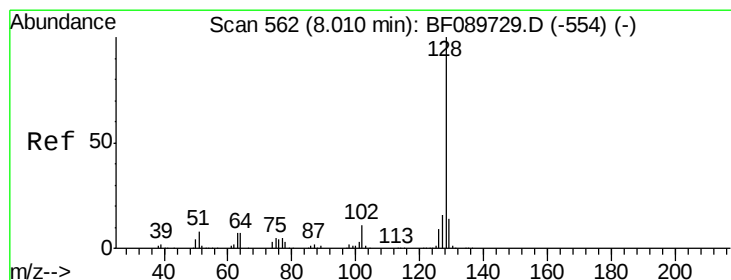
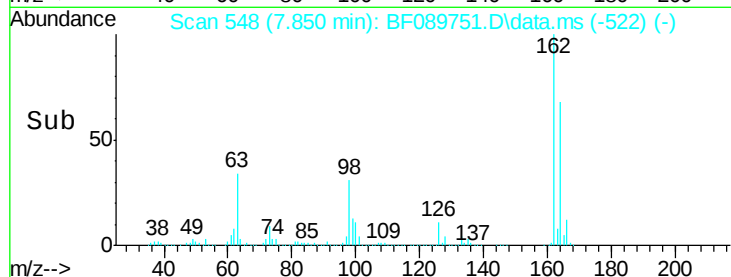
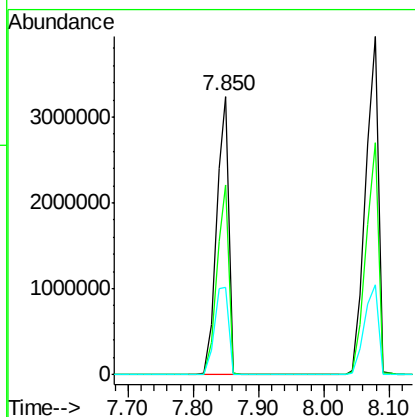
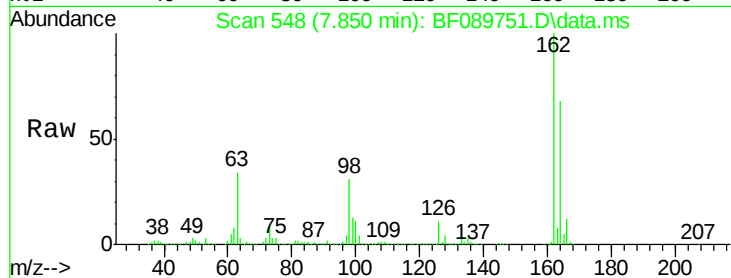




#29
2,4-Dichlorophenol
Concen: 111.65 ng
RT: 7.850 min Scan# 54
Delta R.T. -0.000 min
Lab File: BF089751.D
Acq: 17 Aug 2016 9:06

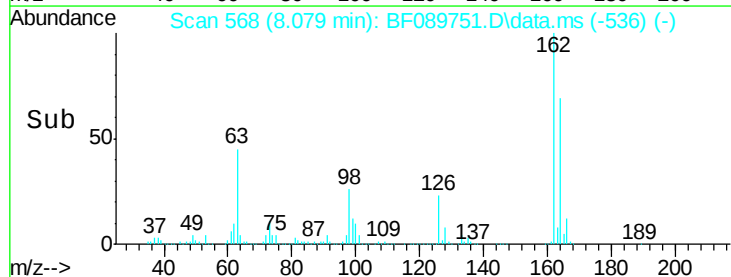
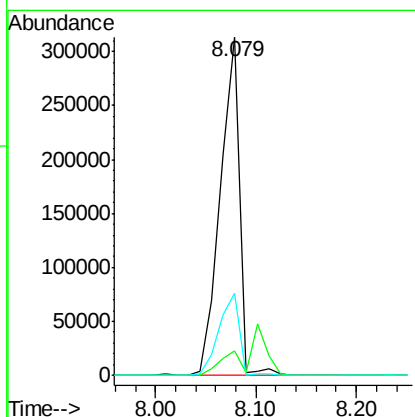
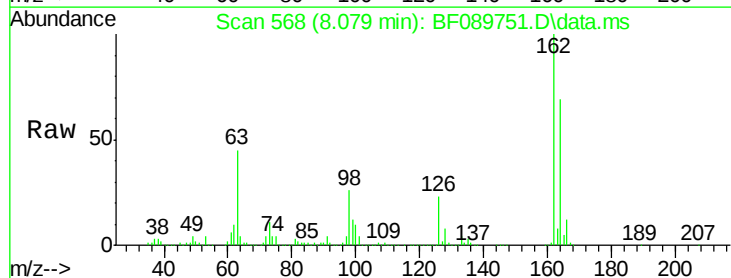
Instrument :
BNA_F
ClientSampleId :
9535

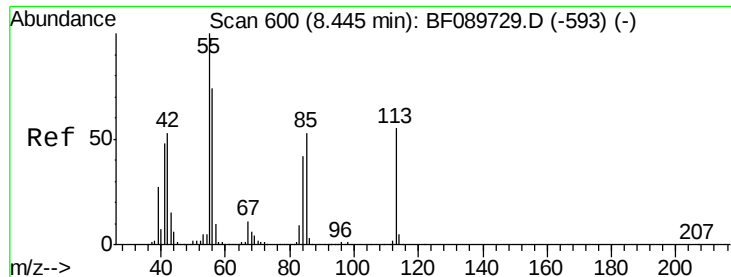
Tot Ion:162 Resp: 4318640
Ion Ratio Lower Upper
162 100
164 68.4 45.5 85.5
98 31.3 12.4 52.4



#31
Naphthalene
Concen: 3.26 ng
RT: 8.079 min Scan# 568
Delta R.T. 0.069 min
Lab File: BF089751.D
Acq: 17 Aug 2016 9:06

Tgt Ion:128 Resp: 414314
Ion Ratio Lower Upper
128 100
129 7.4 9.5 14.3#
127 24.1 11.3 16.9#

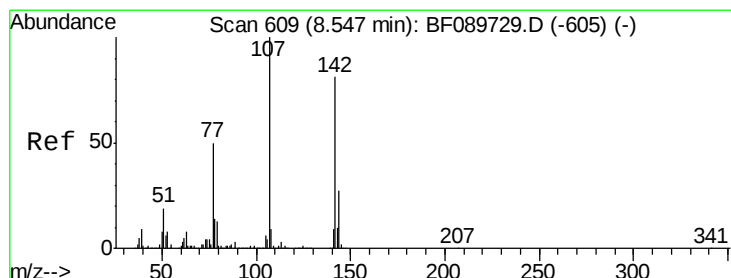
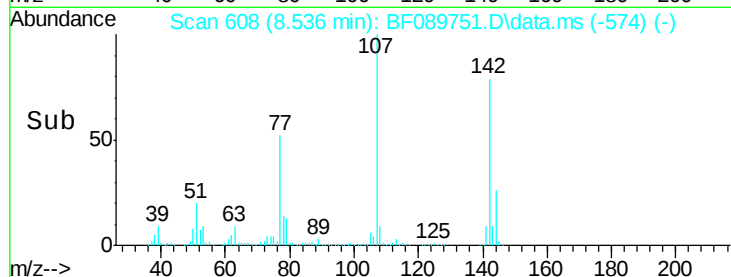
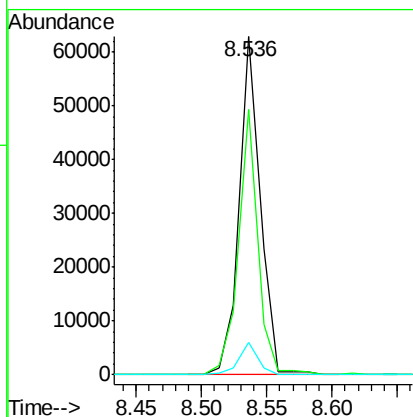
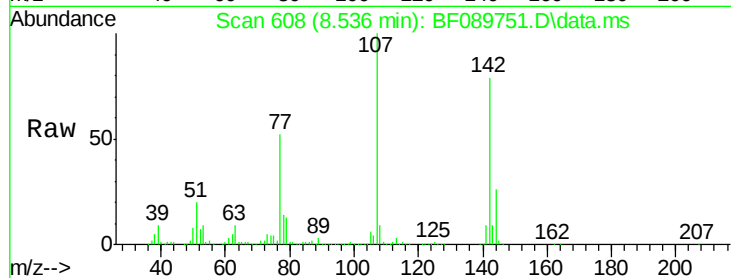




#35
Caprolactam
Concen: 5.88 ng
RT: 8.536 min Scan# 600
Delta R.T. 0.091 min
Lab File: BF089751.D
Acq: 17 Aug 2016 9:06

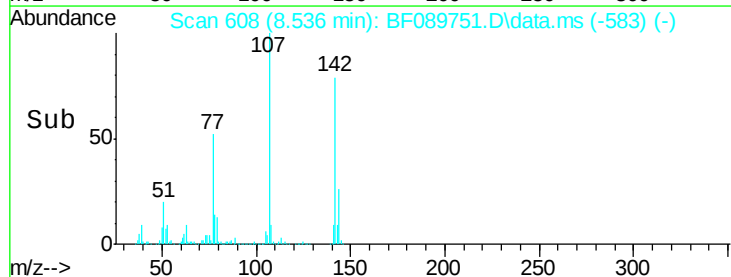
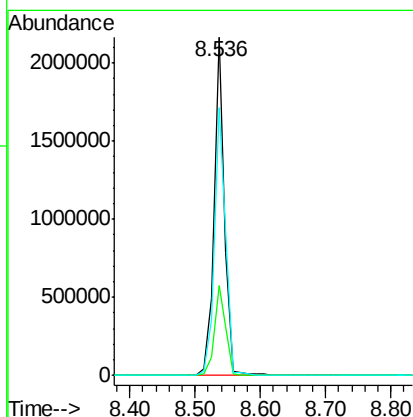
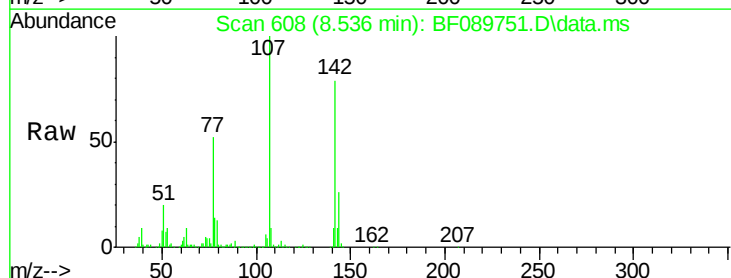
Instrument :
BNA_F
ClientSampleId :
9535

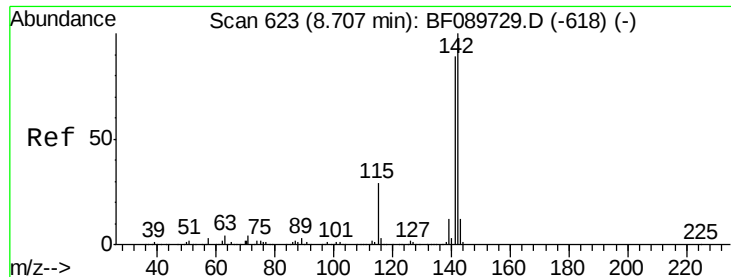
Tot Ion:113 Resp: 70090
Ion Ratio Lower Upper
113 100
55 78.5 135.9 175.9#
56 9.3 93.9 133.9#



#36
4-Chloro-3-methylphenol
Concen: 58.10 ng
RT: 8.536 min Scan# 608
Delta R.T. -0.011 min
Lab File: BF089751.D
Acq: 17 Aug 2016 9:06

Tgt Ion:107 Resp: 2446358
Ion Ratio Lower Upper
107 100
144 26.5 22.6 34.0
142 79.0 69.3 103.9

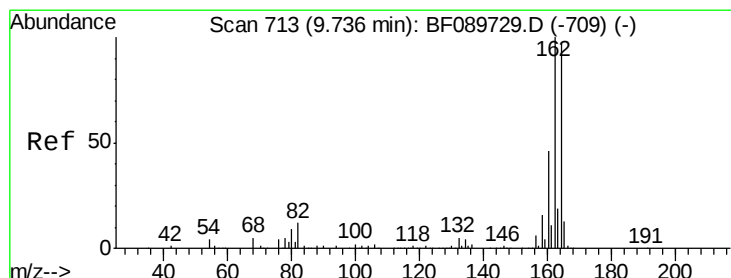
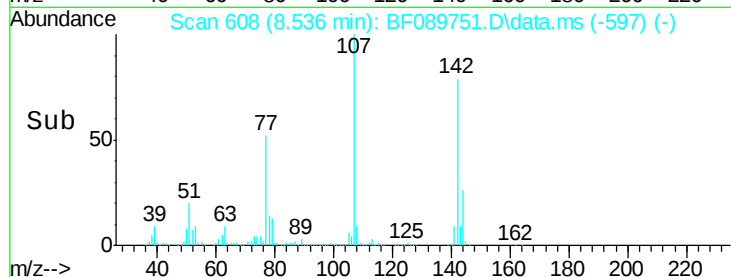
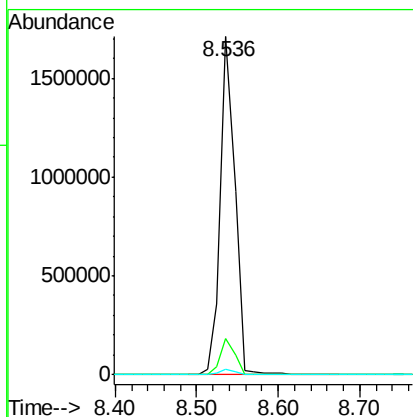
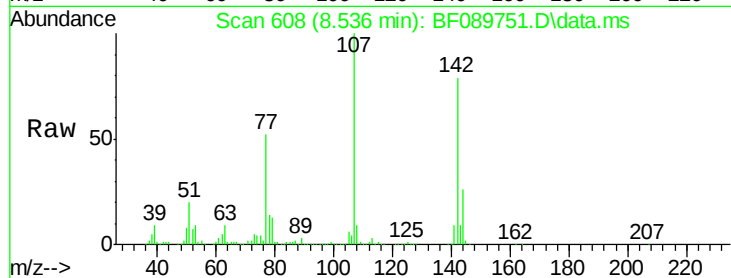




#37
2-Methylnaphthalene
Concen: 24.48 ng
RT: 8.536 min Scan# 60
Delta R.T. -0.171 min
Lab File: BF089751.D
Acq: 17 Aug 2016 9:06

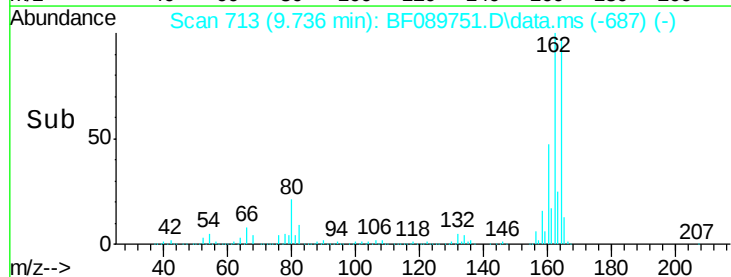
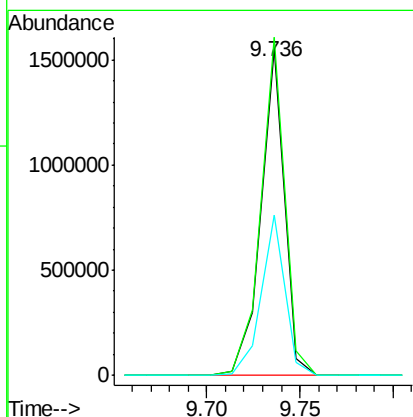
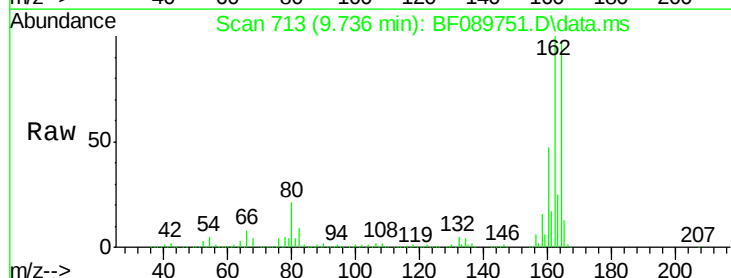
Instrument :
BNA_F
ClientSampleId :
9535

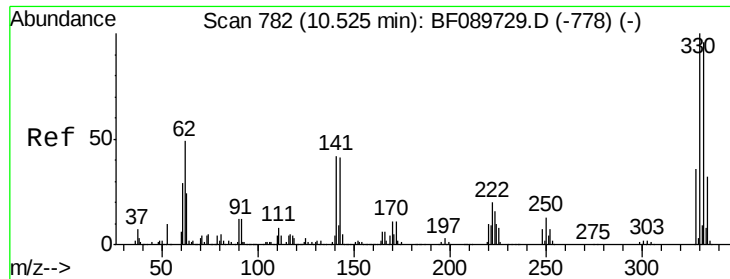
Tot Ion:142 Resp: 2115012
Ion Ratio Lower Upper
142 100
141 10.8 71.4 107.2#
115 1.7 22.7 34.1#



#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.736 min Scan# 713
Delta R.T. -0.000 min
Lab File: BF089751.D
Acq: 17 Aug 2016 9:06

Tgt Ion:164 Resp: 1339822
Ion Ratio Lower Upper
164 100
162 103.4 81.4 122.2
160 48.8 37.8 56.6

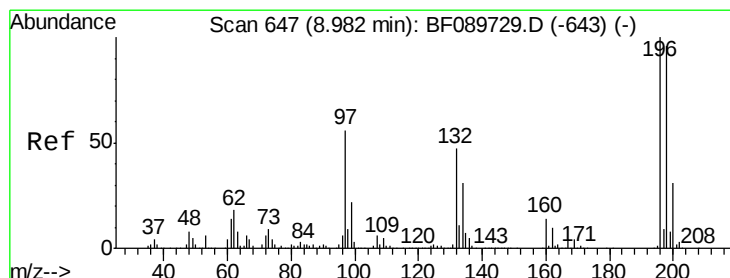
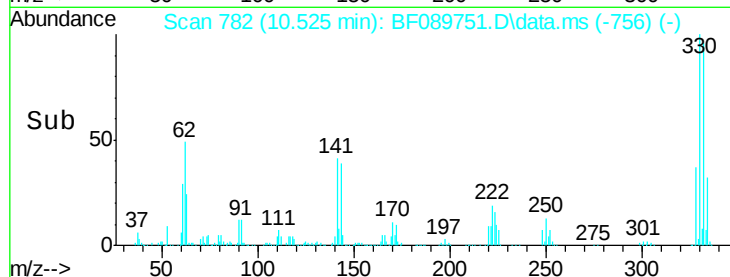
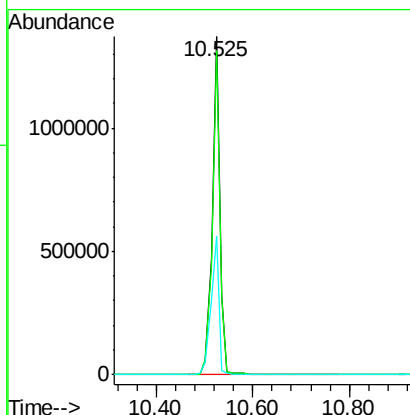
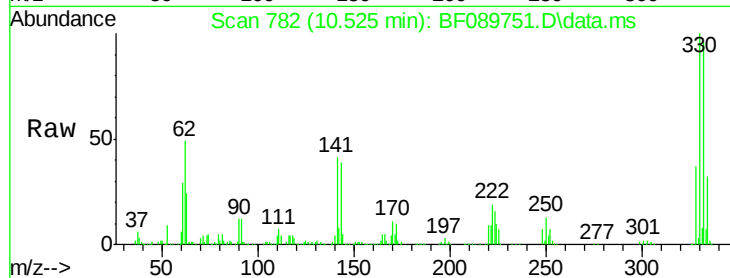




#41
 2,4,6-Tribromophenol
 Concen: 119.71 ng
 RT: 10.525 min Scan# 78
 Delta R.T. -0.000 min
 Lab File: BF089751.D
 Acq: 17 Aug 2016 9:06

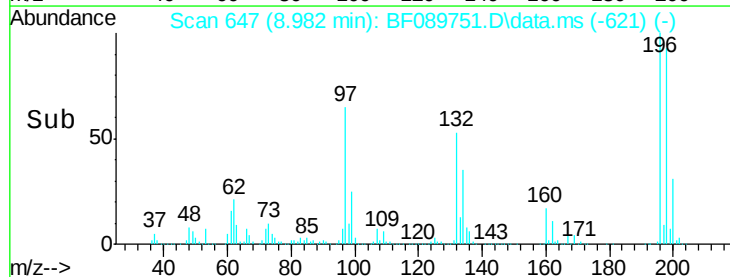
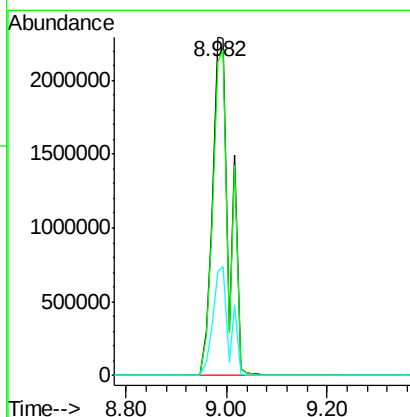
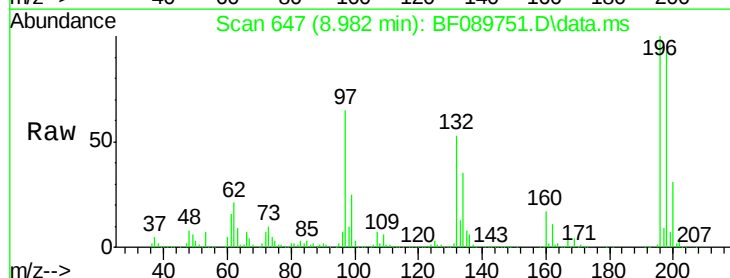
Instrument :
 BNA_F
 ClientSampleId :
 9535

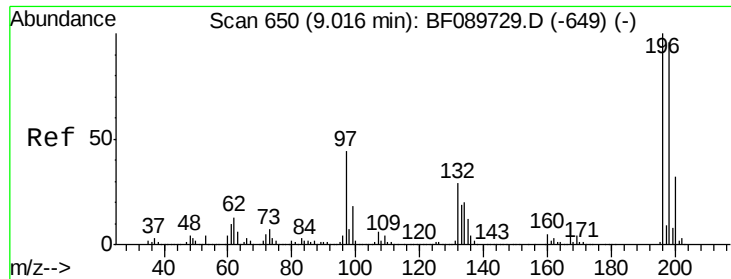
Tot Ion:330 Resp: 1551614
 Ion Ratio Lower Upper
 330 100
 332 96.2 76.7 115.1
 141 41.4 30.2 45.2



#42
 2,4,6-Trichlorophenol
 Concen: 191.48 ng
 RT: 8.982 min Scan# 647
 Delta R.T. -0.000 min
 Lab File: BF089751.D
 Acq: 17 Aug 2016 9:06

Tgt Ion:196 Resp: 5327742
 Ion Ratio Lower Upper
 196 100
 198 92.7 76.3 114.5
 200 30.7 24.6 36.8

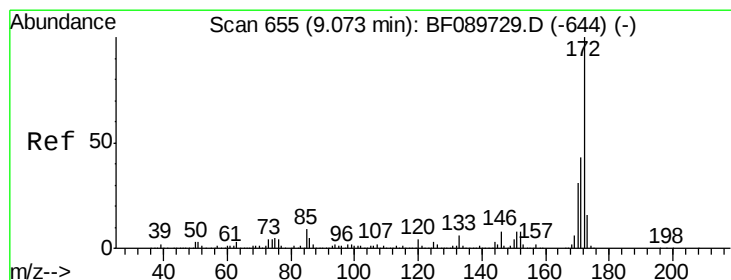
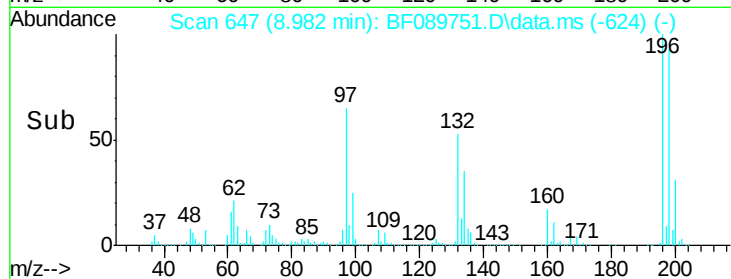
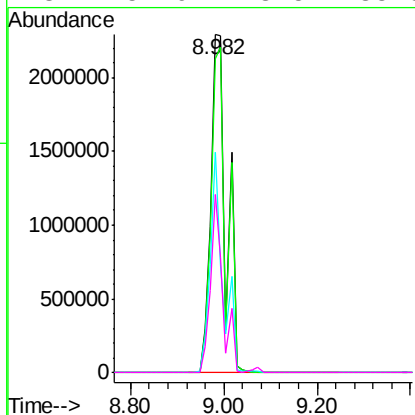
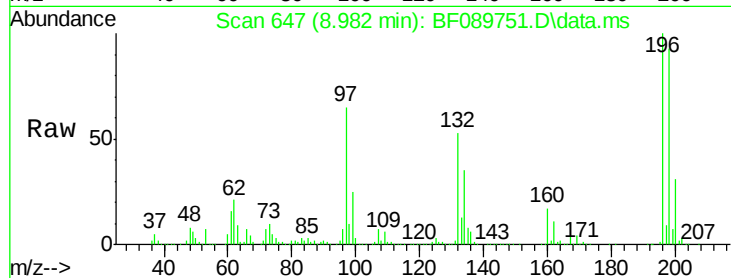




#43
2,4,5-Trichlorophenol
Concen: 200.85 ng
RT: 8.982 min Scan# 64
Delta R.T. -0.034 min
Lab File: BF089751.D
Acq: 17 Aug 2016 9:06

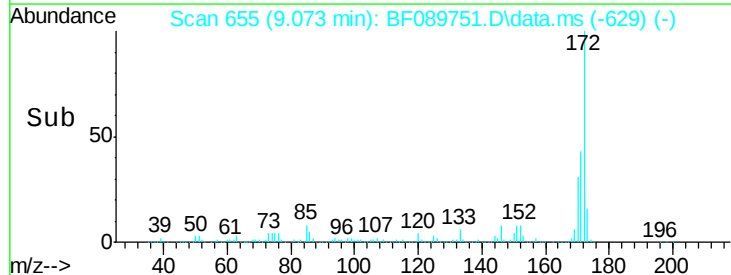
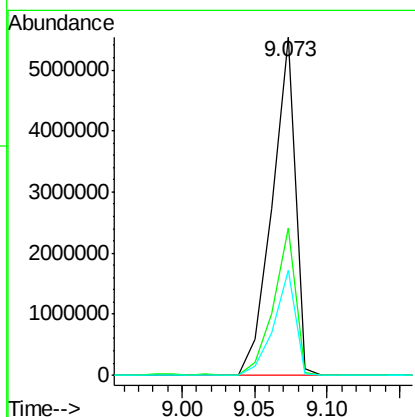
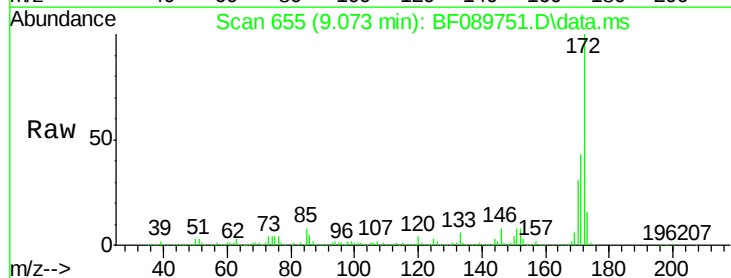
Instrument :
BNA_F
ClientSampleId :
9535

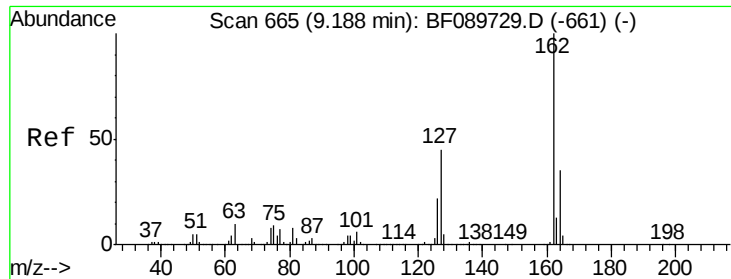
Tot Ion:196 Resp: 5328590
Ion Ratio Lower Upper
196 100
198 92.7 76.6 114.8
97 65.0 35.8 53.8#
132 52.9 23.5 35.3#



#44
2-Fluorobiphenyl
Concen: 73.76 ng
RT: 9.073 min Scan# 655
Delta R.T. 0.000 min
Lab File: BF089751.D
Acq: 17 Aug 2016 9:06

Tgt Ion:172 Resp: 6158812
Ion Ratio Lower Upper
172 100
171 43.4 30.5 45.7
170 30.9 20.6 31.0

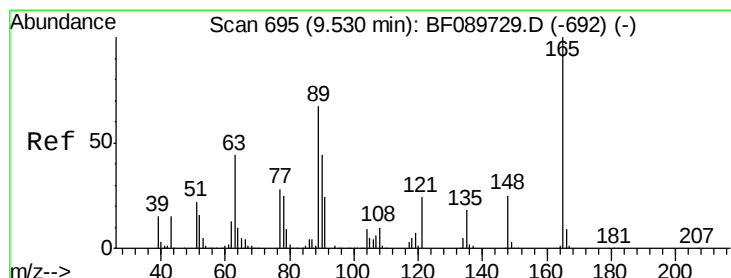
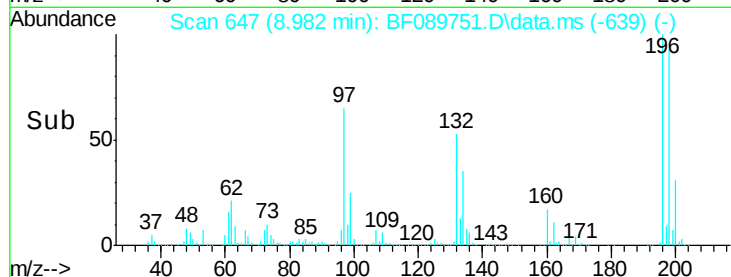
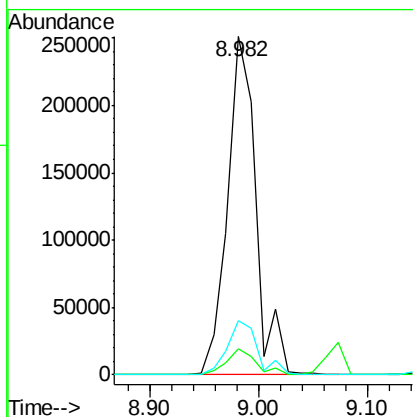
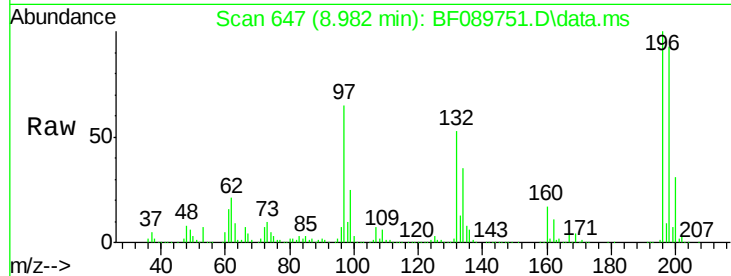




#46
2-Chloronaphthalene
Concen: 5.41 ng
RT: 8.982 min Scan# 64
Delta R.T. -0.206 min
Lab File: BF089751.D
Acq: 17 Aug 2016 9:06

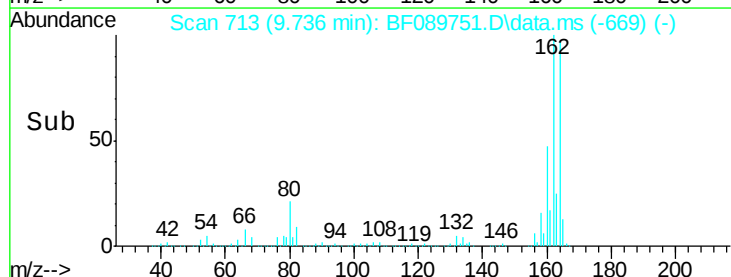
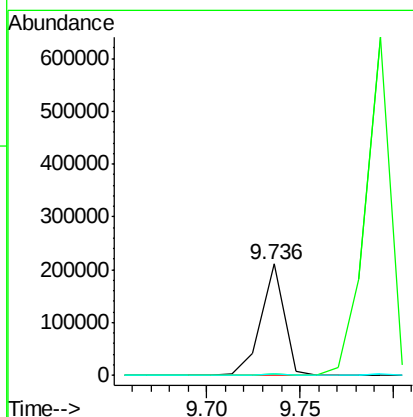
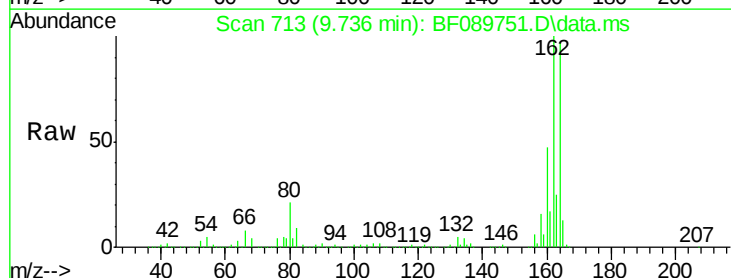
Instrument :
BNA_F
ClientSampleId :
9535

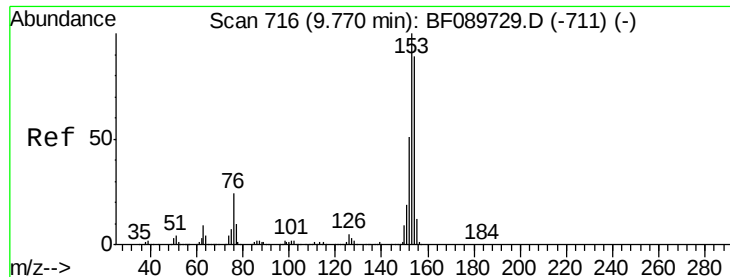
Tot Ion	Ratio	Lower	Upper
162	100		
127	7.6	35.5	53.3#
164	16.0	26.6	40.0#



#50
2,6-Dinitrotoluene
Concen: 8.21 ng
RT: 9.736 min Scan# 713
Delta R.T. 0.206 min
Lab File: BF089751.D
Acq: 17 Aug 2016 9:06

Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.0	41.7	62.5#
89	1.2	44.6	67.0#





#51

Acenaphthene

Concen: 6.02 ng

RT: 9.793 min Scan# 71

Delta R.T. 0.023 min

Lab File: BF089751.D

Acq: 17 Aug 2016 9:06

Instrument :

BNA_F

ClientSampleId :
9535

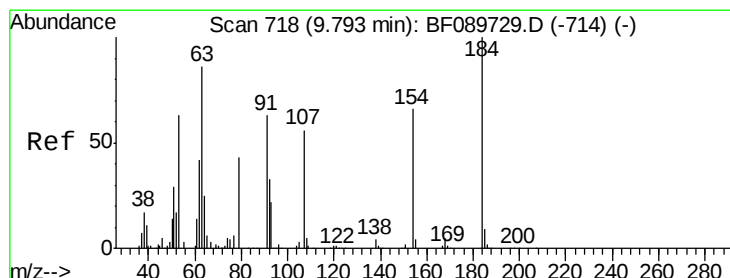
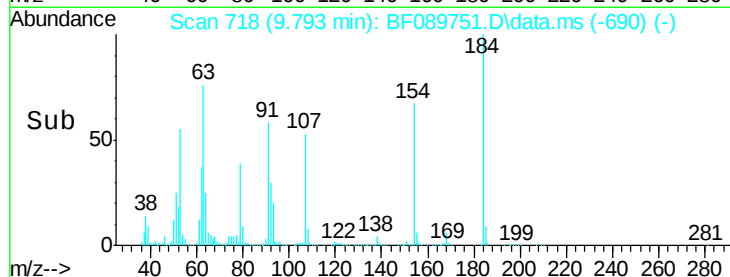
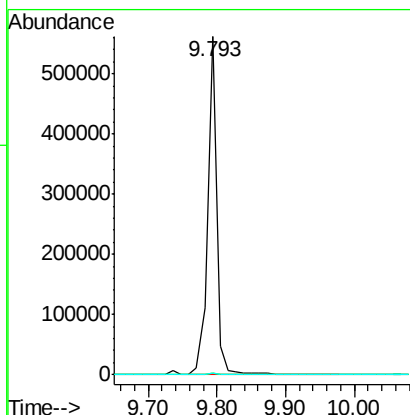
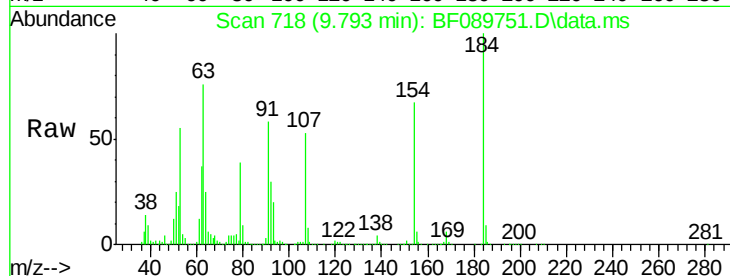
Tot Ion:154 Resp: 520192

Ion Ratio Lower Upper

154 100

153 0.5 90.5 135.7#

152 0.5 44.6 67.0#



#53

2,4-Dinitrophenol

Concen: 77.93 ng

RT: 9.793 min Scan# 718

Delta R.T. 0.000 min

Lab File: BF089751.D

Acq: 17 Aug 2016 9:06

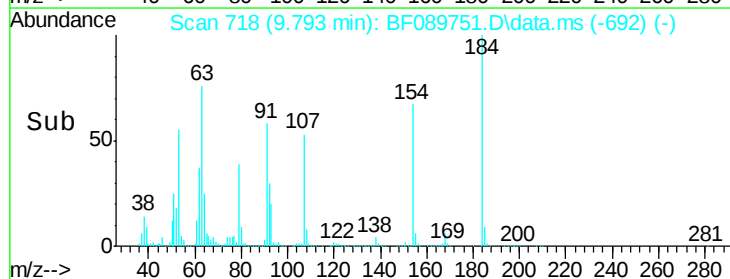
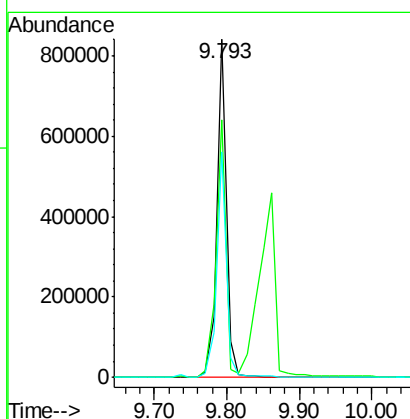
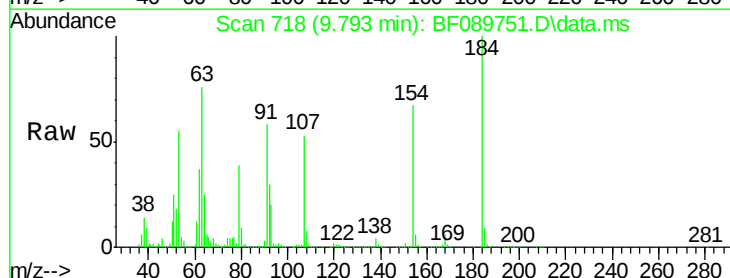
Tgt Ion:184 Resp: 763224

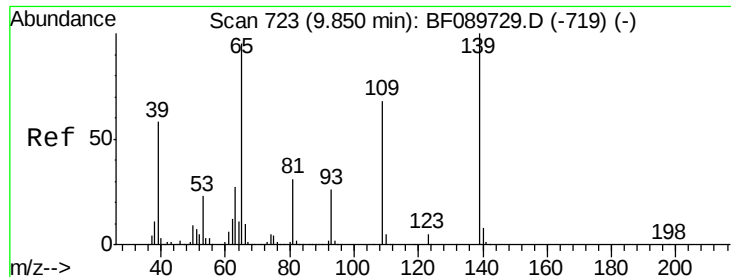
Ion Ratio Lower Upper

184 100

63 76.1 54.2 81.4

154 66.8 52.7 79.1





#55

4-Nitrophenol

Concen: 140.29 ng

RT: 9.862 min Scan# 72

Delta R.T. 0.011 min

Lab File: BF089751.D

Acq: 17 Aug 2016 9:06

Instrument :

BNA_F

ClientSampleId :

9535

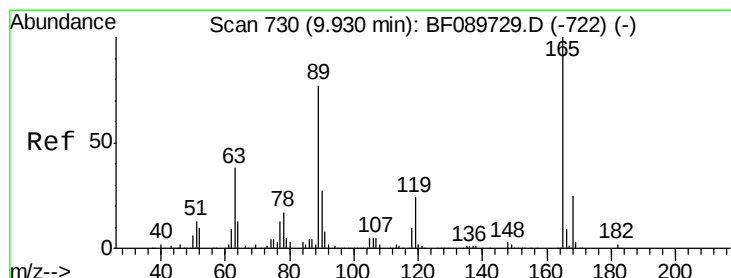
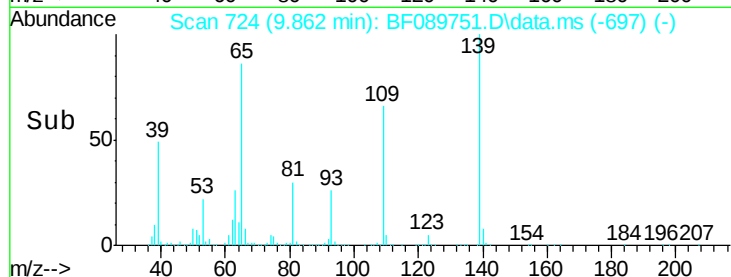
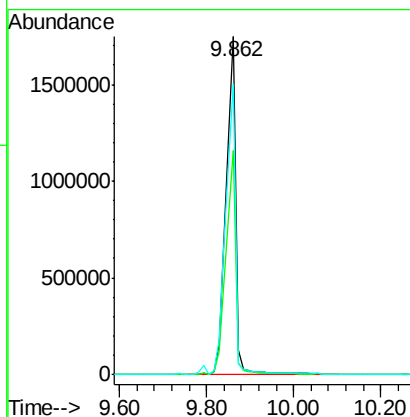
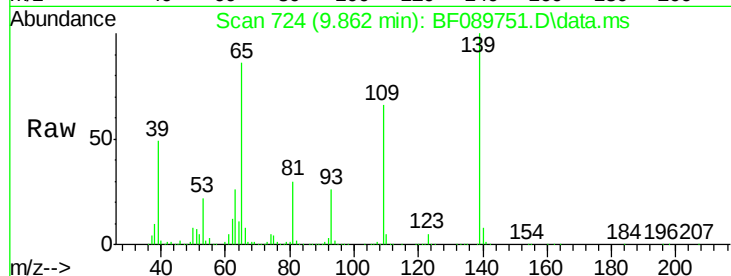
Tot Ion:139 Resp: 2753267

Ion Ratio Lower Upper

139 100

109 66.4 43.0 83.0

65 86.1 55.7 95.7



#56

2,4-Dinitrotoluene

Concen: 6.38 ng

RT: 9.736 min Scan# 713

Delta R.T. -0.194 min

Lab File: BF089751.D

Acq: 17 Aug 2016 9:06

Tgt Ion:165 Resp: 180069

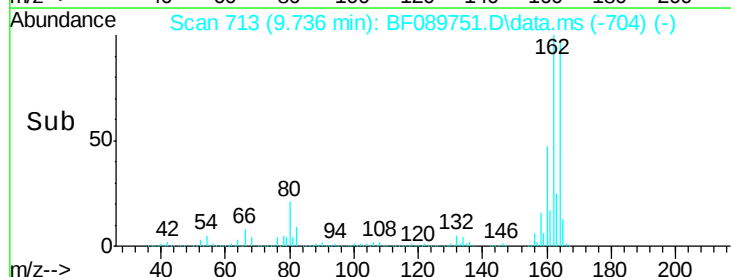
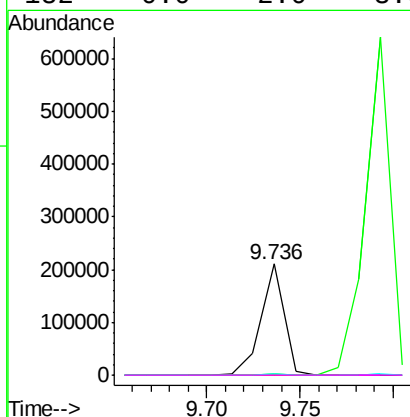
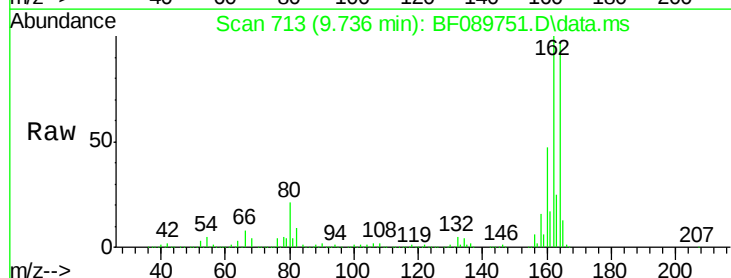
Ion Ratio Lower Upper

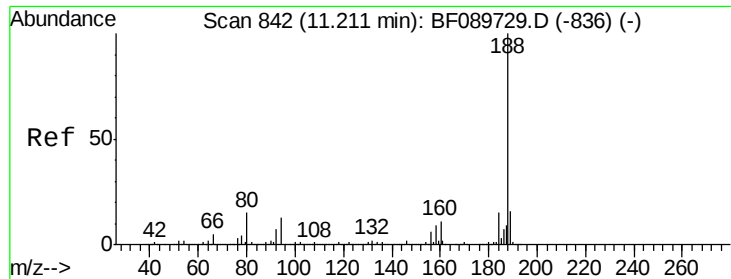
165 100

63 1.0 23.7 35.5#

89 1.2 44.0 66.0#

182 0.0 2.0 3.0#

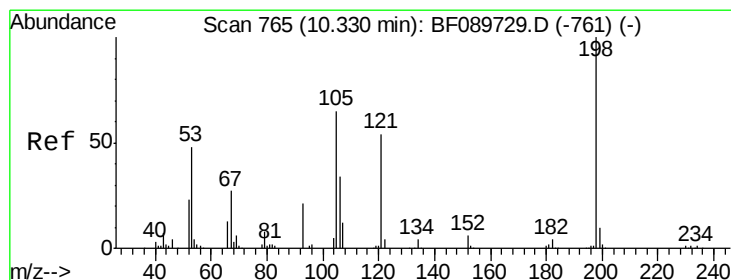
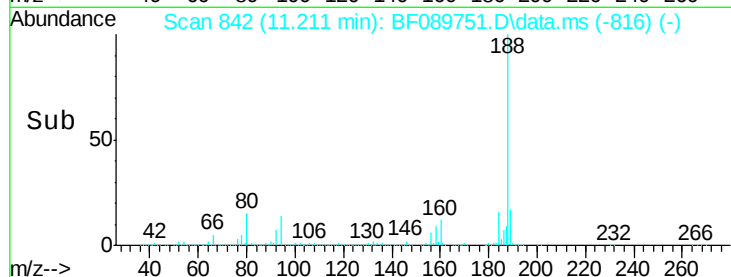
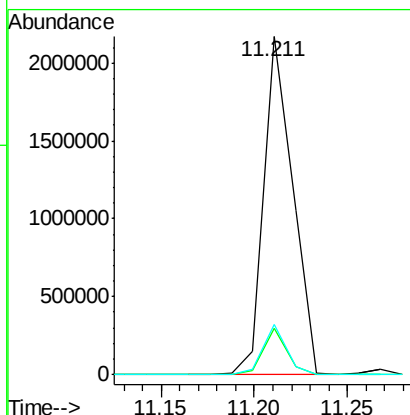
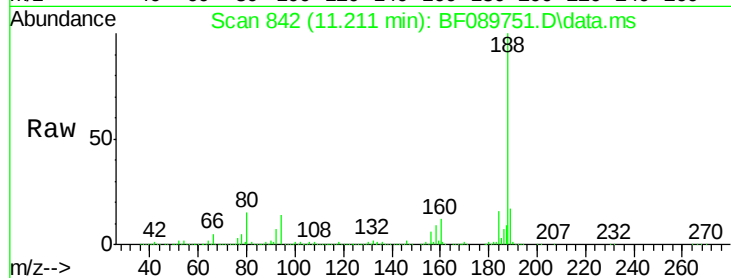




#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.211 min Scan# 842
Delta R.T. -0.000 min
Lab File: BF089751.D
Acq: 17 Aug 2016 9:06

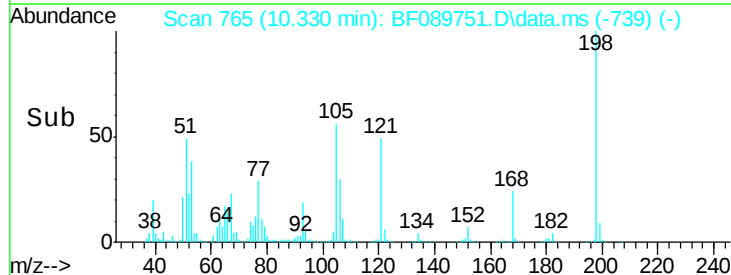
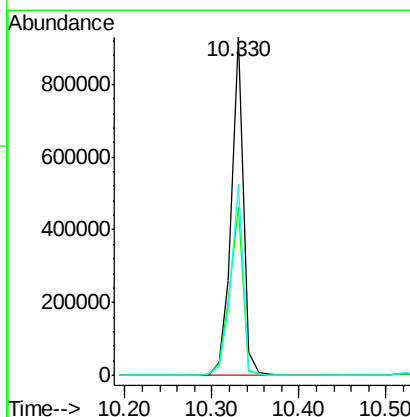
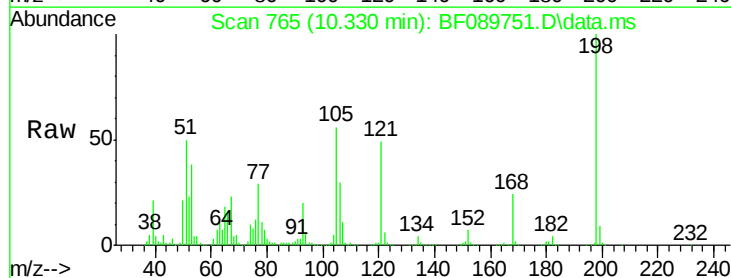
Instrument :
BNA_F
ClientSampleId :
9535

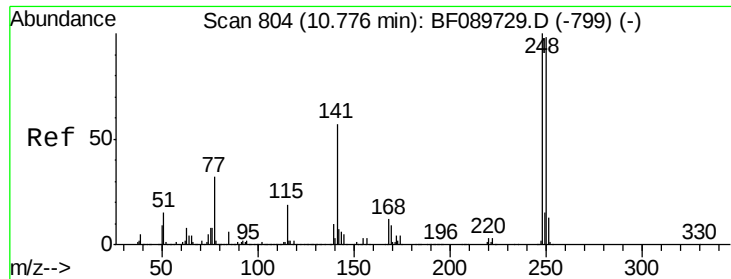
Tot Ion:188 Resp: 2324576
Ion Ratio Lower Upper
188 100
94 13.6 10.2 15.2
80 14.8 10.9 16.3



#64
4,6-Dinitro-2-methylphenol
Concen: 66.31 ng
RT: 10.330 min Scan# 765
Delta R.T. 0.000 min
Lab File: BF089751.D
Acq: 17 Aug 2016 9:06

Tgt Ion:198 Resp: 894962
Ion Ratio Lower Upper
198 100
51 49.6 32.3 72.3
105 56.4 32.9 72.9

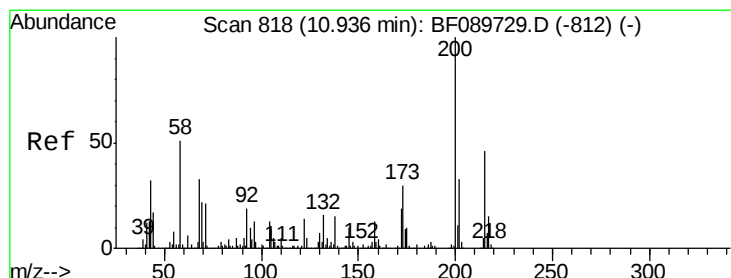
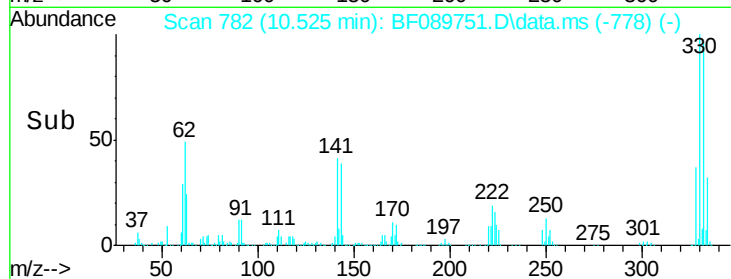
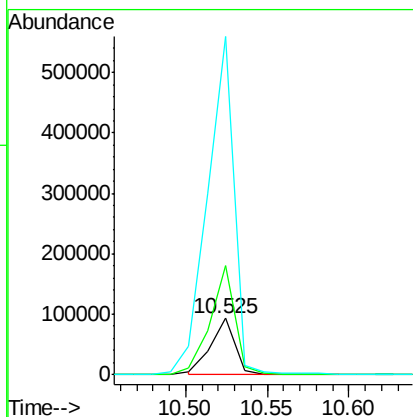
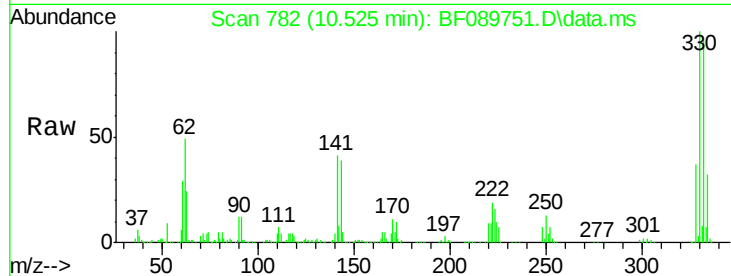




#66
4-Bromophenyl-phenylether
Concen: 3.96 ng
RT: 10.525 min Scan# 78
Delta R.T. -0.251 min
Lab File: BF089751.D
Acq: 17 Aug 2016 9:06

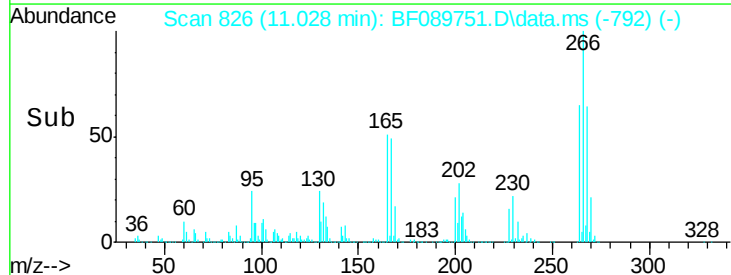
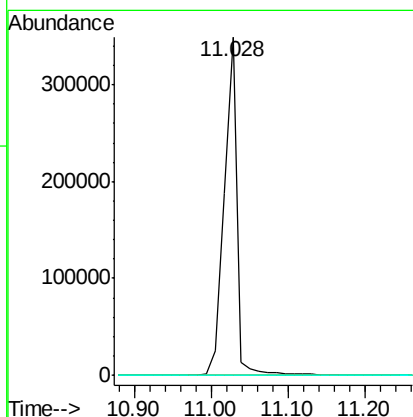
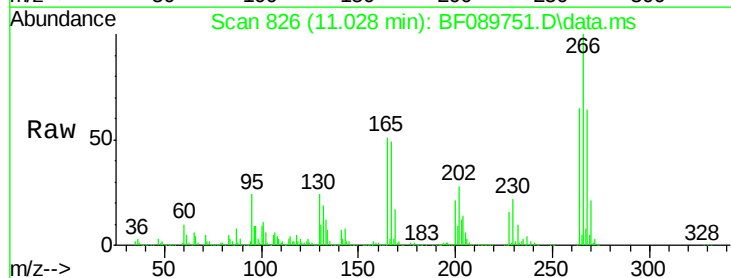
Instrument :
BNA_F
ClientSampleId :
9535

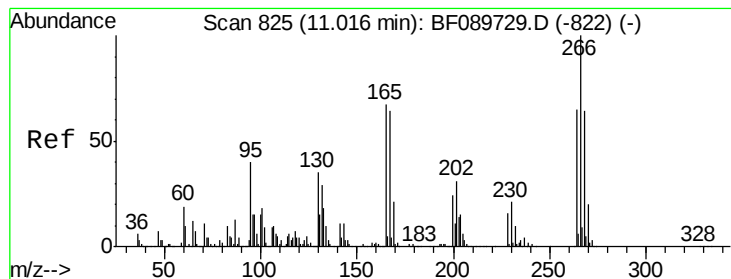
Tot Ion:248 Resp: 95321
Ion Ratio Lower Upper
248 100
250 194.1 78.6 117.8#
141 601.7 31.4 47.2#



#68
Atrazine
Concen: 18.60 ng
RT: 11.028 min Scan# 826
Delta R.T. 0.091 min
Lab File: BF089751.D
Acq: 17 Aug 2016 9:06

Tgt Ion:200 Resp: 411079
Ion Ratio Lower Upper
200 100
173 0.1 6.6 46.6#
215 0.1 24.7 64.7#





#69

Pentachlorophenol

Concen: 115.45 ng

RT: 11.028 min Scan# 82

Delta R.T. 0.011 min

Lab File: BF089751.D

Acq: 17 Aug 2016 9:06

Instrument :

BNA_F

ClientSampleId :
9535

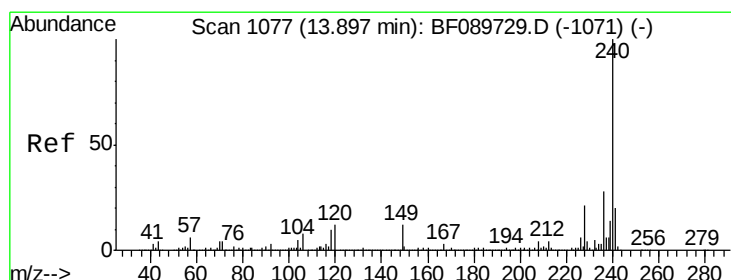
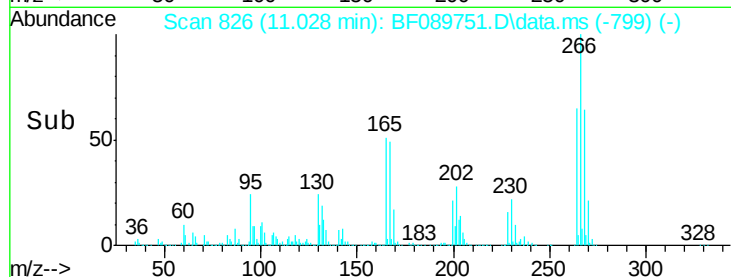
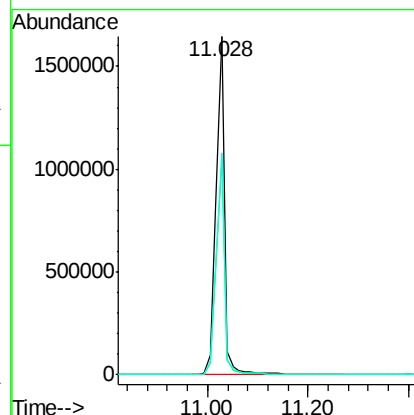
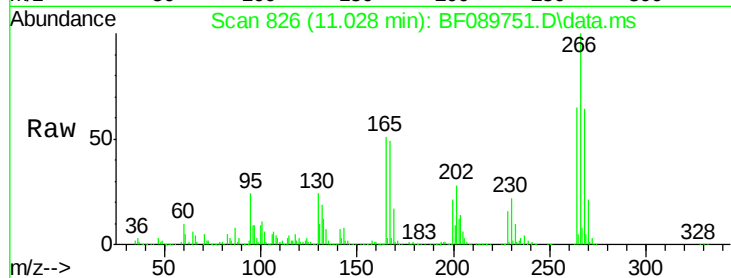
Tot Ion:266 Resp: 1924704

Ion Ratio Lower Upper

266 100

268 63.7 53.2 79.8

264 65.4 51.1 76.7



#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.908 min Scan# 1078

Delta R.T. 0.011 min

Lab File: BF089751.D

Acq: 17 Aug 2016 9:06

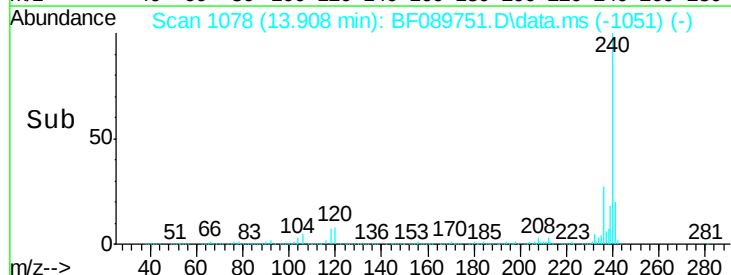
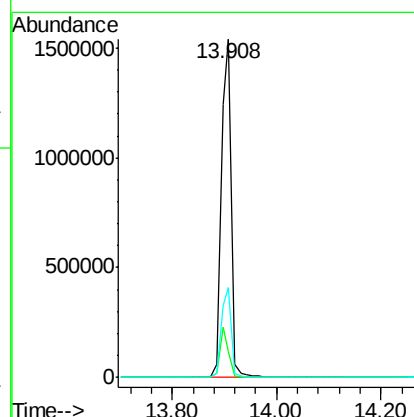
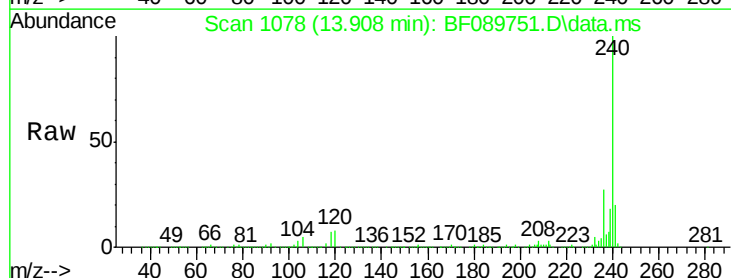
Tgt Ion:240 Resp: 2026258

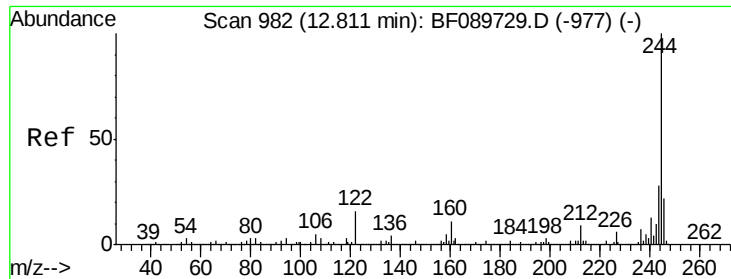
Ion Ratio Lower Upper

240 100

120 7.5 8.3 12.5#

236 26.6 21.3 31.9





#78

Terphenyl-d14

Concen: 90.13 ng

RT: 12.811 min Scan# 98

Delta R.T. 0.001 min

Lab File: BF089751.D

Acq: 17 Aug 2016 9:06

Instrument :

BNA_F

ClientSampleId :
9535

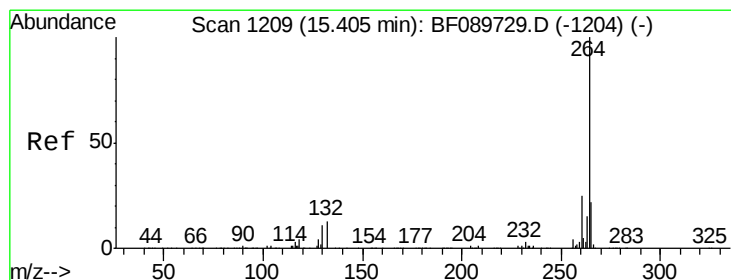
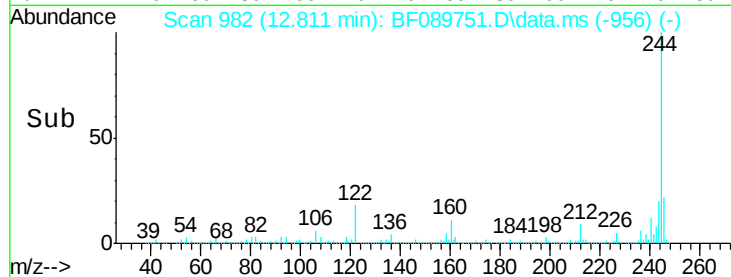
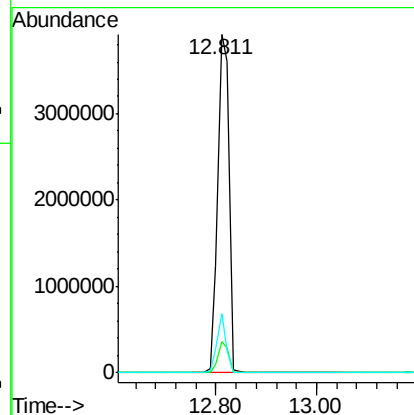
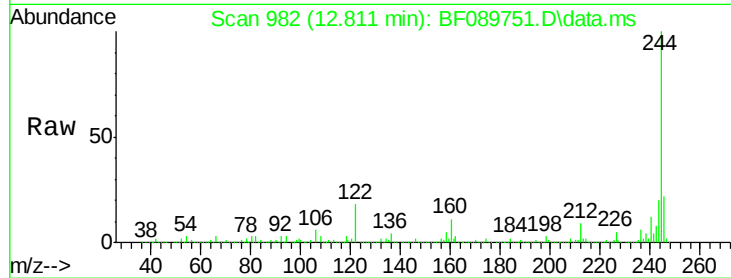
Tot Ion:244 Resp: 6112905

Ion Ratio Lower Upper

244 100

212 9.0 6.3 9.5

122 17.6 12.0 18.0



#86

Perylene-d12

Concen: 20.00 ng

RT: 15.428 min Scan# 1211

Delta R.T. 0.023 min

Lab File: BF089751.D

Acq: 17 Aug 2016 9:06

Tgt Ion:264 Resp: 1642410

Ion Ratio Lower Upper

264 100

260 24.0 20.2 30.2

265 22.2 17.4 26.2

