

Data Path : Z:\HPCHEM1\BNA F\DATA\BF071116\
 Data File : BF088902.D
 Acq On : 11 Jul 2016 16:32
 Operator : UM/SJ
 Sample : H3948-04
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 NC-04

Manual Integrations

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Quant Time: Jul 11 19:07:47 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF063016.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jul 11 18:13:32 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.71	152	65389	20.00	ng	0.00
21) Naphthalene-d8	8.00	136	273536	20.00	ng	0.00
38) Acenaphthene-d10	9.75	164	104902	20.00	ng	0.00
63) Phenanthrene-d10	11.22	188	168643	20.00	ng	0.00
75) Chrysene-d12	13.85	240	138018	20.00	ng	0.00
86) Perylene-d12	15.22	264	115198	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.30	112	598538	137.18	ng	0.01
7) Phenol-d6	6.36	99	839554	148.92	ng	0.01
23) Nitrobenzene-d5	7.28	82	452723	86.73	ng	0.00
41) 2,4,6-Tribromophenol	10.54	330	151551	155.58	ng	0.00
44) 2-Fluorobiphenyl	9.07	172	659124	99.25	ng	0.00
78) Terphenyl-d14	12.81	244	512822	82.76	ng	0.01
Target Compounds						Qvalue
31) Naphthalene	8.02	128	58469	4.34	ng	99
37) 2-Methylnaphthalene	8.71	142	42516	4.90	ng	# 95
48) Acenaphthylene	9.61	152	35873	3.31	ng	98
49) Dimethylphthalate	9.47	163	174806	23.39	ng	99
51) Acenaphthene	9.78	154	50463	7.59	ng	99
54) Dibenzofuran	9.95	168	54342	6.24	ng	# 94
57) Fluorene	10.28	166	90115	13.43	ng	99
70) Phenanthrene	11.24	178	770616	83.59	ng	100
71) Anthracene	11.30	178	251207	27.41	ng	97
72) Carbazole	11.45	167	45024	5.22	ng	99
74) Fluoranthene	12.43	202	818151	87.54	ng	100
77) Pyrene	12.66	202	845723	72.27	ng	100
80) Benzo(a)anthracene	13.84	228	463846	52.19	ng	97
82) Chrysene	13.87	228	297218	33.80	ng	97
85) Indeno(1,2,3-cd)pyrene	16.53	276	137003	20.25	ng	# 100
87) Benzo(b)fluoranthene	14.86	252	333909m	46.21	ng	
88) Benzo(k)fluoranthene	14.86	252	162058m	25.76	ng	
89) Benzo(a)pyrene	15.18	252	261751m	42.78	ng	
90) Dibenzo(a,h)anthracene	16.53	278	44630	8.74	ng	# 88
91) Benzo(a,h,i)perylene	16.91	276	127860	24.18	ng	95

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

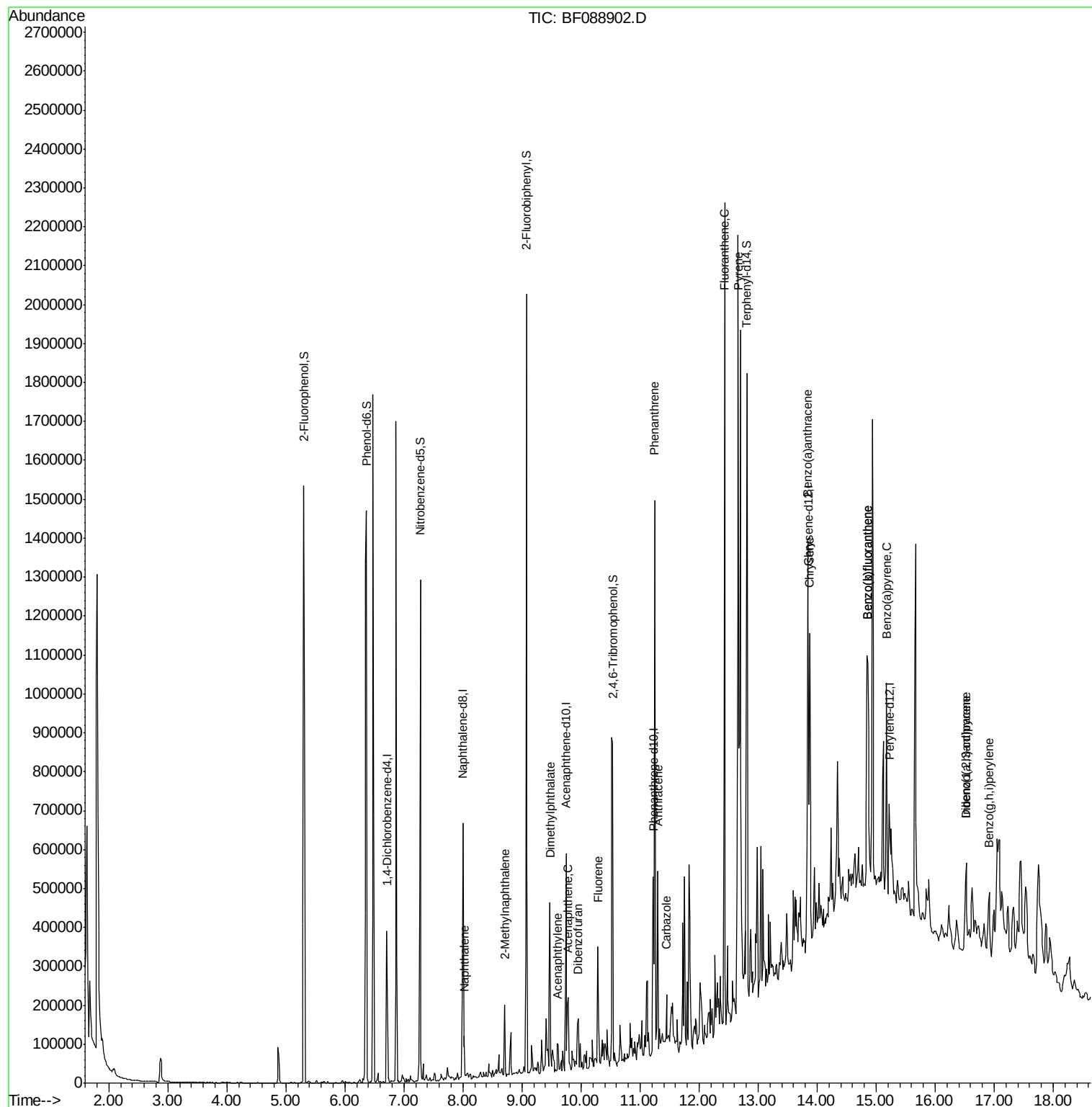
Data Path : Z:\HPCHEM1\BNA F\DATA\BF071116\
Data File : BF088902.D
Acq On : 11 Jul 2016 16:32
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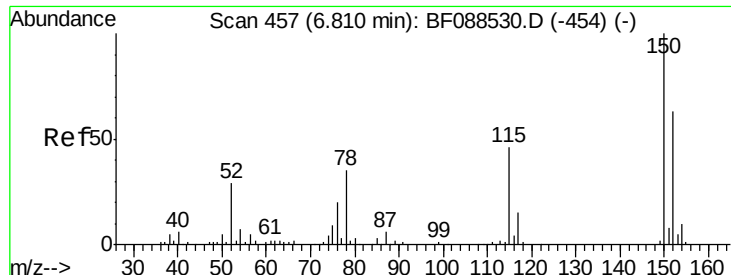
Instrument :
BNA_F
ClientSampled :
NC-04

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Quant Time: Jul 11 19:07:47 2016
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF063016.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

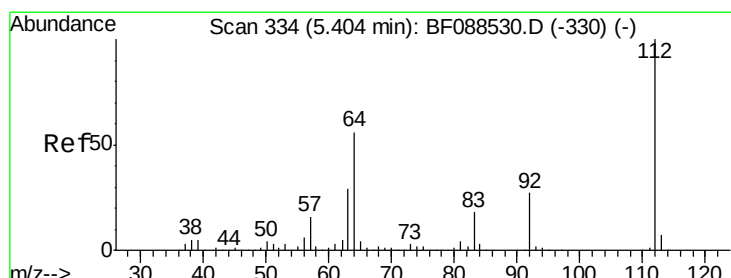
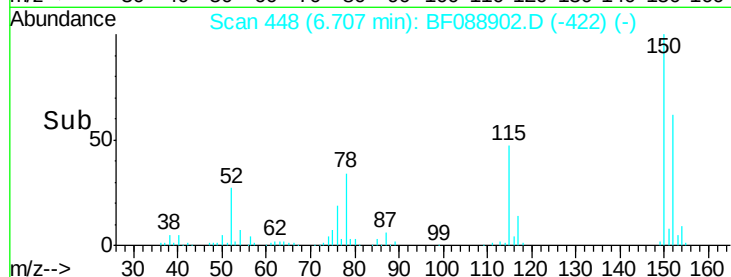
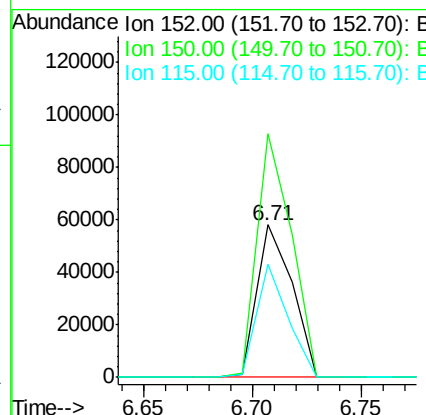
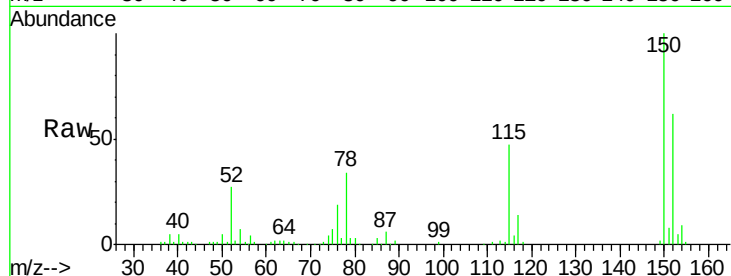
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.71 min Scan# 448
Delta R.T. -0.00 min
Lab File: BF088902.D
Acq: 11 Jul 2016 16:32

Instrument :
BNA_F
ClientSampleId :
NC-04

Tot Ion	Ratio	Lower	Upper
152	100		
150	160.1	123.8	185.6
115	74.7	39.6	59.4

Manual Integrations

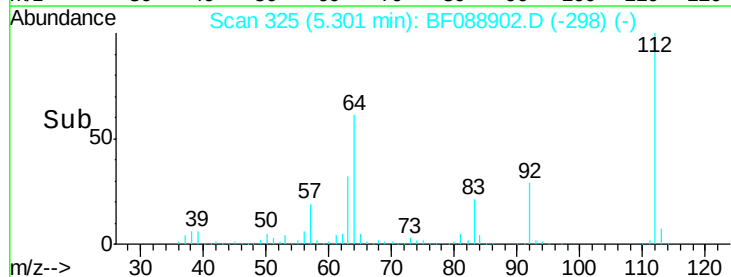
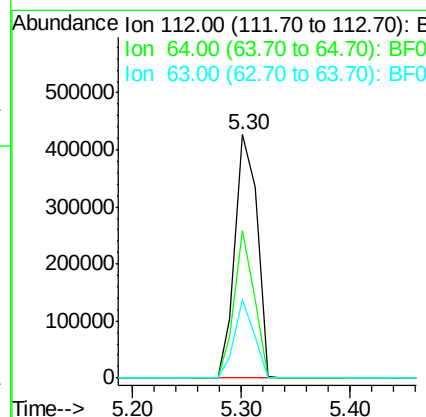
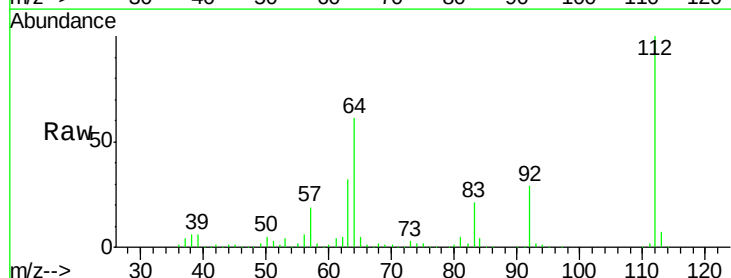
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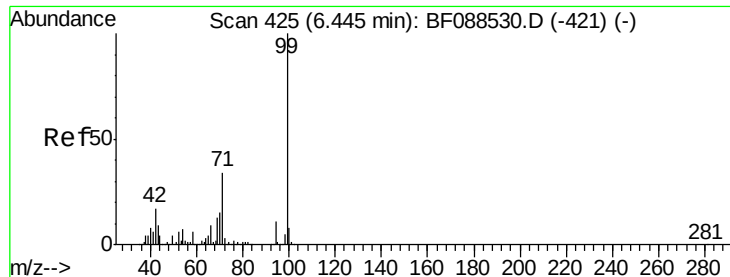


#5

2-Fluorophenol
Concen: 137.18 ng
RT: 5.30 min Scan# 325
Delta R.T. 0.01 min
Lab File: BF088902.D
Acq: 11 Jul 2016 16:32

Tgt Ion	Ratio	Lower	Upper
112	100		
64	60.7	42.2	63.2
63	32.5	21.8	32.8





#7

Phenol-d6

Concen: 148.92 ng

RT: 6.36 min Scan# 418

Delta R.T. 0.01 min

Lab File: BF088902.D

Acq: 11 Jul 2016 16:32

Instrument :

BNA_F

ClientSampleId :

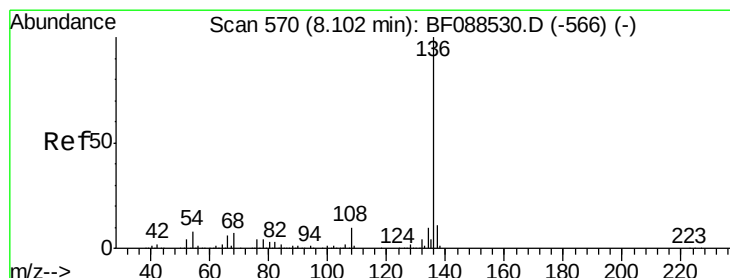
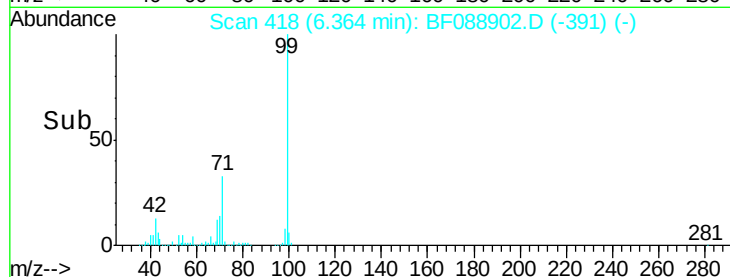
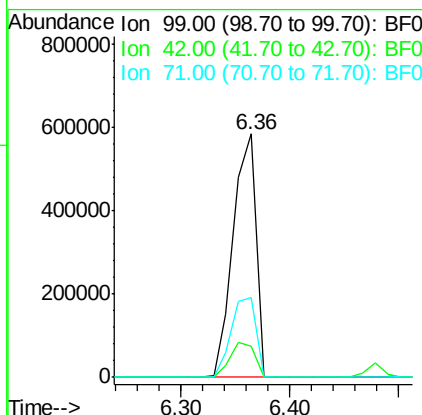
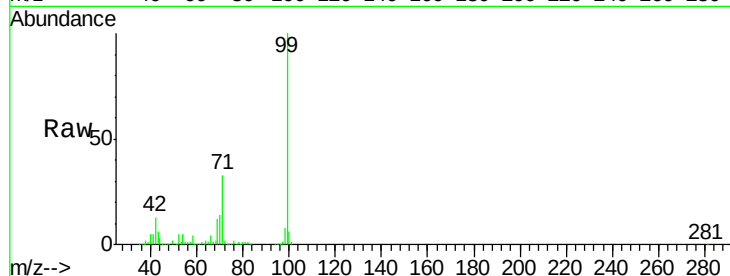
NC-04

Tot Ion	Ion	Ratio	Resp	Lower	Upper
99	100		839554		
42	12.7	12.2	18.2		
71	32.7	23.4	35.0		

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#21

Naphthalene-d8

Concen: 20.00 ng

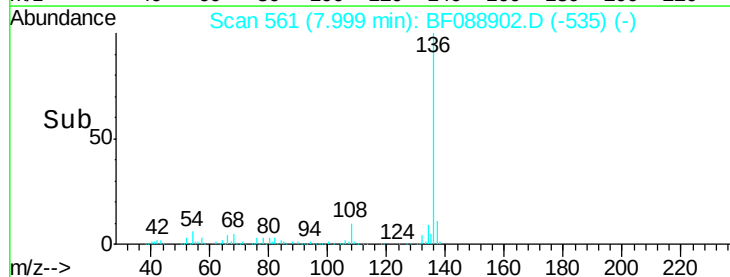
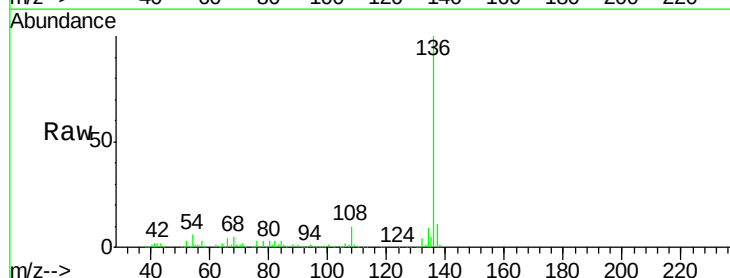
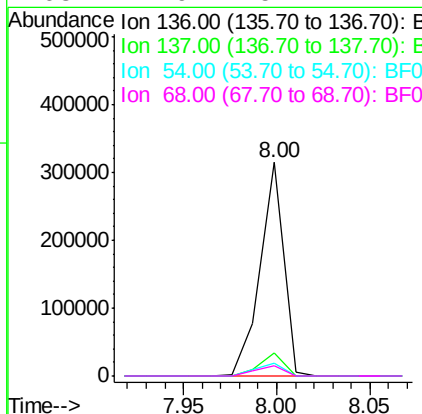
RT: 8.00 min Scan# 561

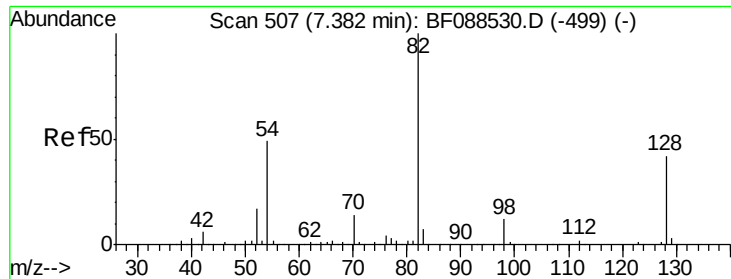
Delta R.T. -0.00 min

Lab File: BF088902.D

Acq: 11 Jul 2016 16:32

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
136	100		273536		
137	10.8	9.1	13.7		
54	5.8	6.6	10.0#		
68	4.9	5.1	7.7#		





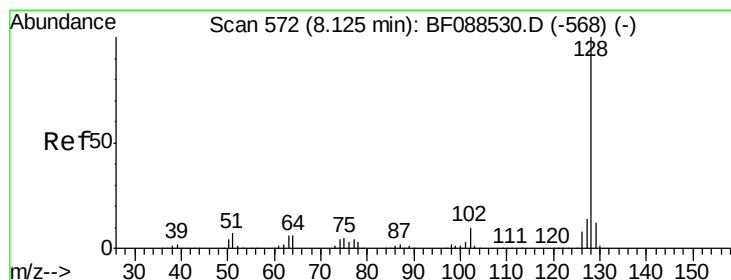
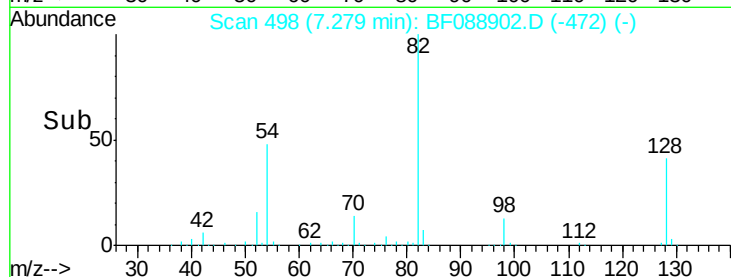
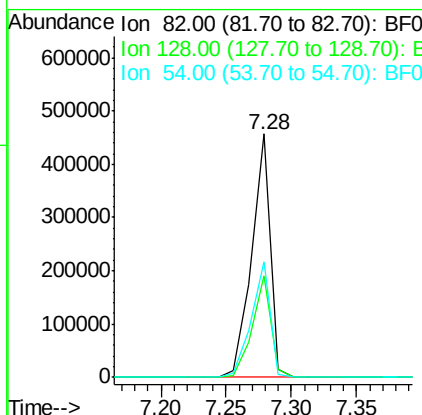
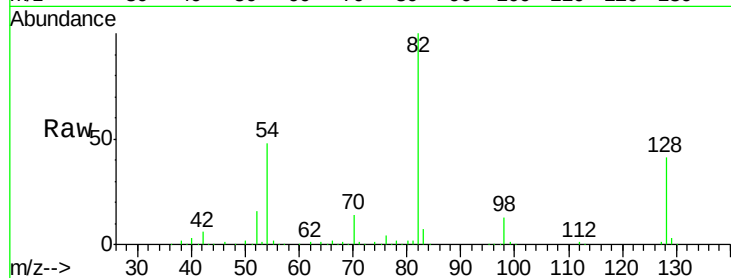
#23
Nitrobenzene-d5
Concen: 86.73 ng
RT: 7.28 min Scan# 498
Delta R.T. -0.00 min
Lab File: BF088902.D
Acq: 11 Jul 2016 16:32

Instrument :
BNA_F
ClientSampleId :
NC-04

Tot Ion	82	Resp	452723
Ion Ratio	100	Lower	Upper
82	100		
128	41.5	35.9	53.9
54	47.6	40.9	61.3

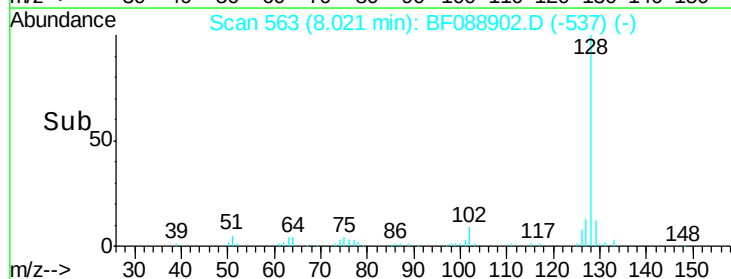
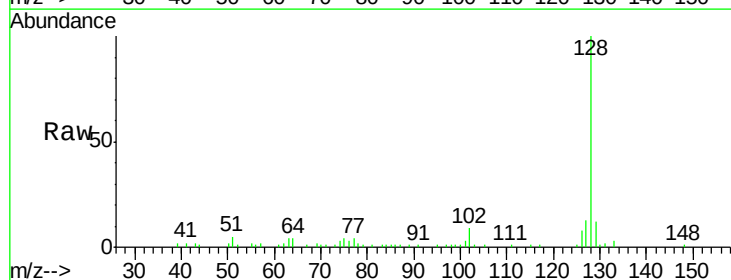
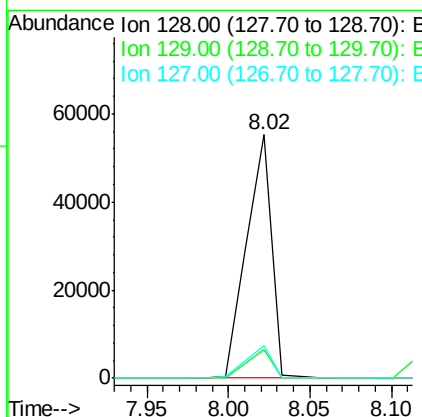
Manual Integrations

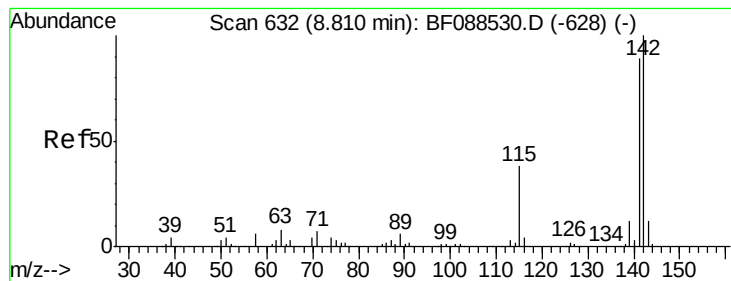
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#31
Naphthalene
Concen: 4.34 ng
RT: 8.02 min Scan# 563
Delta R.T. -0.00 min
Lab File: BF088902.D
Acq: 11 Jul 2016 16:32

Tgt Ion	128	Resp	58469
Ion Ratio	100	Lower	Upper
128	100		
129	11.5	9.4	14.2
127	13.1	10.9	16.3





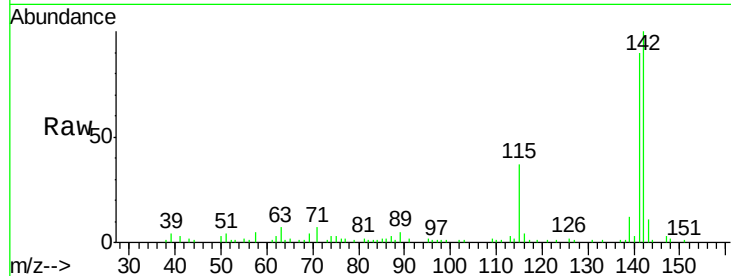
#37
2-Methylnaphthalene
Concen: 4.90 ng
RT: 8.71 min Scan# 623
Delta R.T. -0.00 min
Lab File: BF088902.D
Acq: 11 Jul 2016 16:32

Instrument :
BNA_F
ClientSampleId :
NC-04

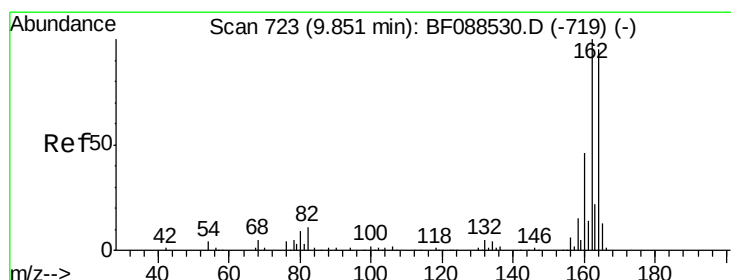
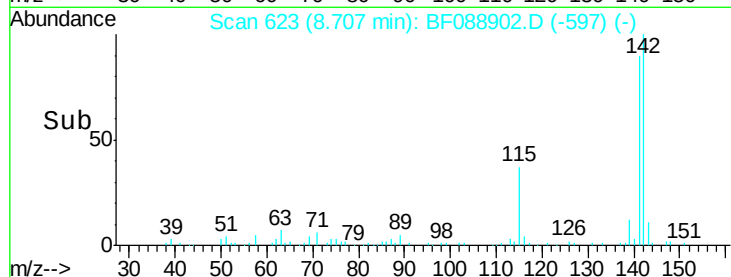
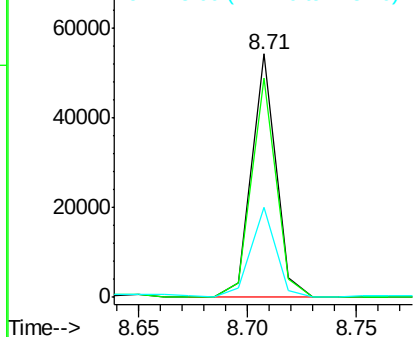
Tot Ion	Ratio	Lower	Upper
142	100		
141	90.0	71.0	106.6
115	36.9	22.6	33.8

Manual Integrations

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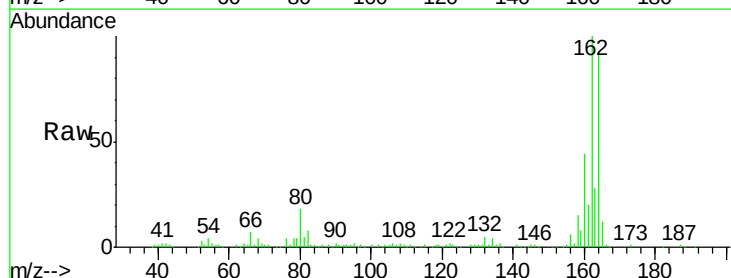


Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 115.00 (114.70 to 115.70): E

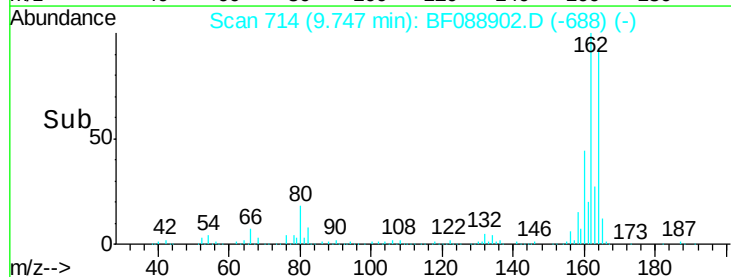
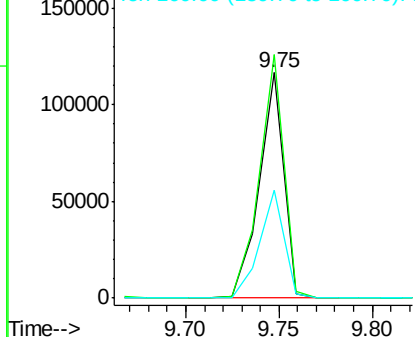


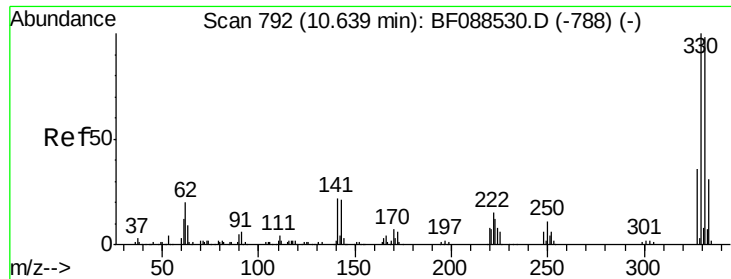
#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.75 min Scan# 714
Delta R.T. -0.00 min
Lab File: BF088902.D
Acq: 11 Jul 2016 16:32

Tgt Ion	Ratio	Lower	Upper
164	100		
162	108.0	85.4	128.2
160	47.6	39.5	59.3



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: 155.58 ng

RT: 10.54 min Scan# 783

Delta R.T. -0.00 min

Lab File: BF088902.D

Acq: 11 Jul 2016 16:32

Instrument :

BNA_F

ClientSampleId :

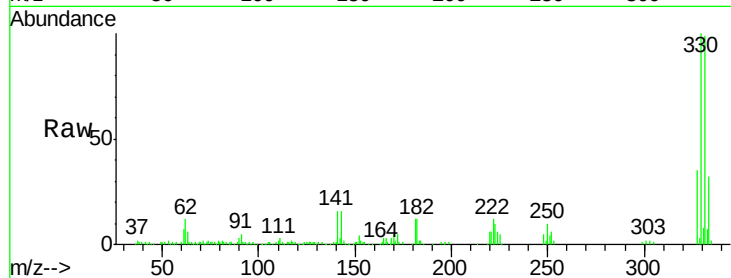
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Tot Ion:	330	Resp:	151551
Ion Ratio	Lower	Upper	
330	100		
332	96.6	0.0	0.0#
141	32.7	0.0	0.0#

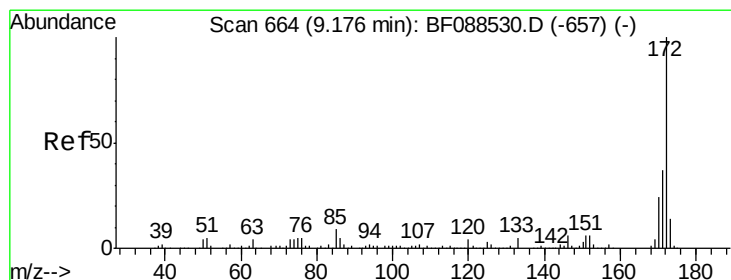
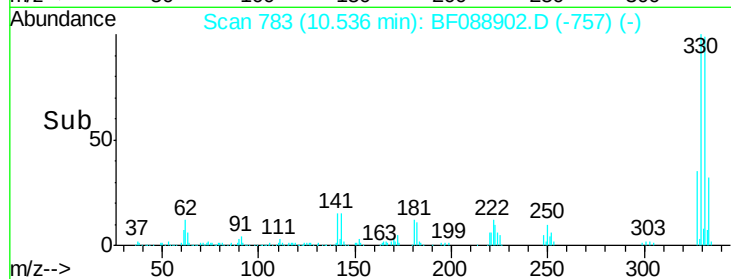
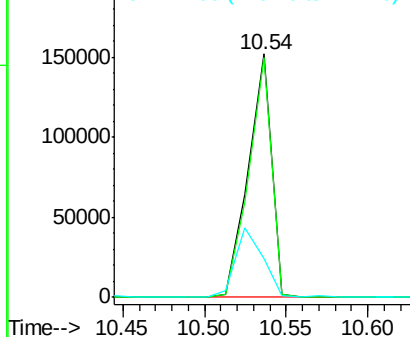
Manual Integrations

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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: 99.25 ng

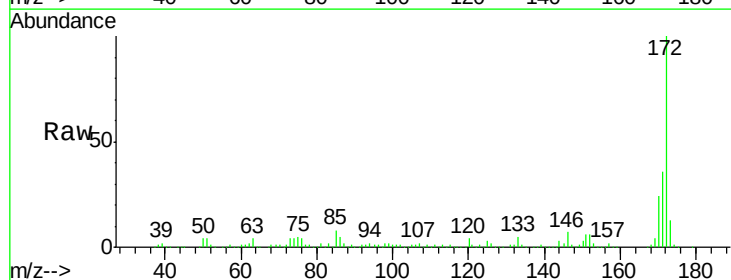
RT: 9.07 min Scan# 655

Delta R.T. -0.00 min

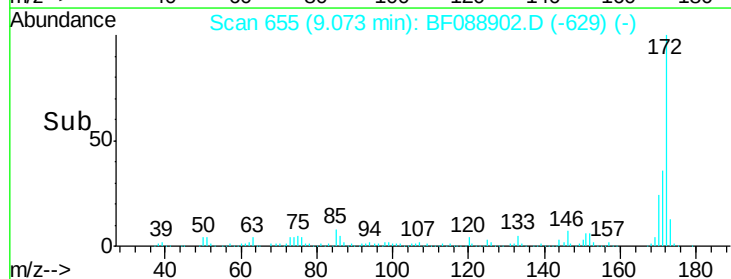
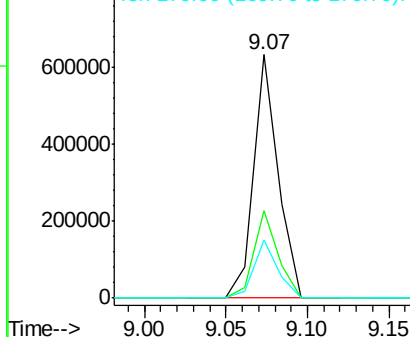
Lab File: BF088902.D

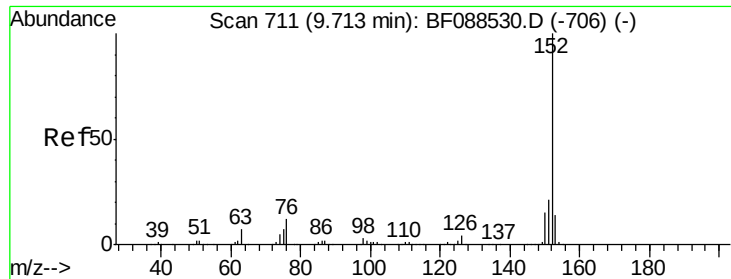
Acq: 11 Jul 2016 16:32

Tgt Ion:	172	Resp:	659124
Ion Ratio	Lower	Upper	
172	100		
171	36.2	28.6	43.0
170	23.9	19.2	28.8



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





#48

Acenaphthylene

Concen: 3.31 ng

RT: 9.61 min Scan# 702

Delta R.T. -0.00 min

Lab File: BF088902.D

Acq: 11 Jul 2016 16:32

Instrument :

BNA_F

ClientSampleId :

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Tot Ion:152 Resp: 35873

Ion Ratio Lower Upper

152 100

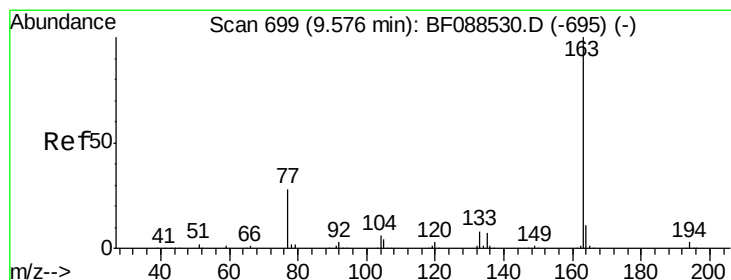
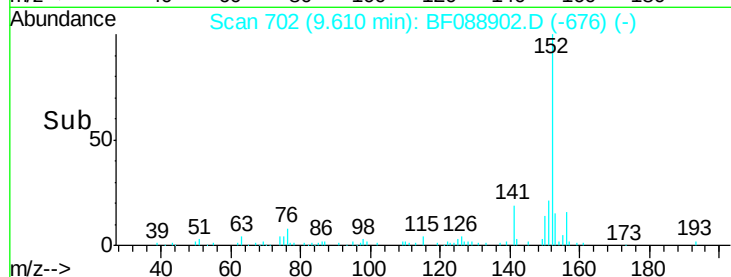
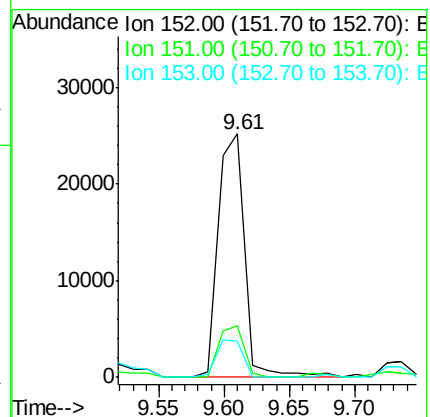
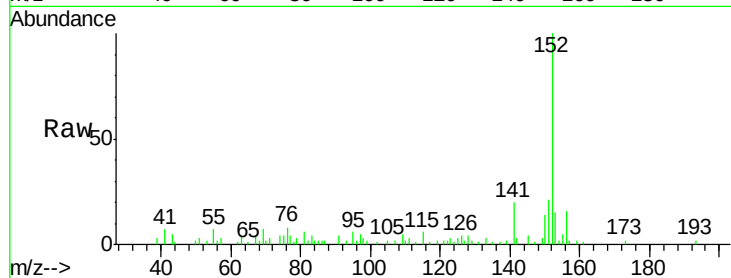
151 21.2 16.2 24.4

153 15.0 11.0 16.6

Manual Integrations

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#49

Dimethylphthalate

Concen: 23.39 ng

RT: 9.47 min Scan# 690

Delta R.T. -0.01 min

Lab File: BF088902.D

Acq: 11 Jul 2016 16:32

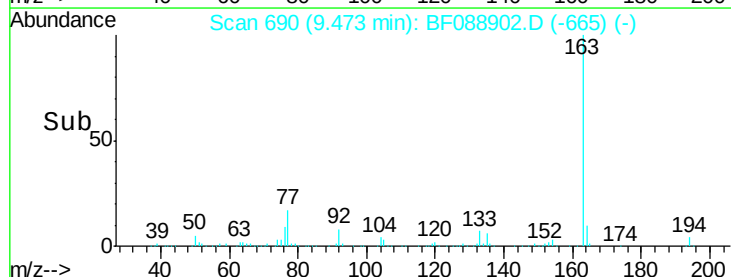
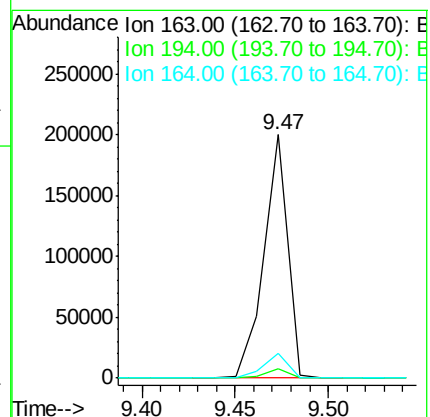
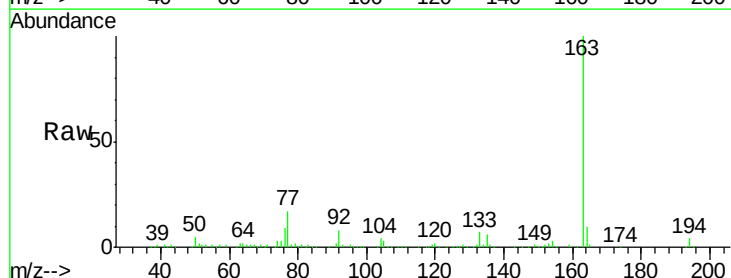
Tgt Ion:163 Resp: 174806

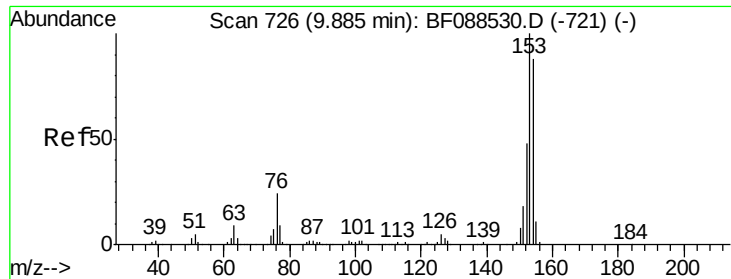
Ion Ratio Lower Upper

163 100

194 3.7 2.8 4.2

164 10.0 8.3 12.5





#51

Acenaphthene

Concen: 7.59 ng

RT: 9.78 min Scan# 717

Delta R.T. -0.00 min

Lab File: BF088902.D

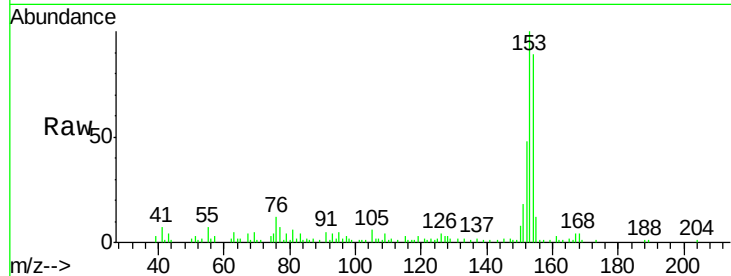
Acq: 11 Jul 2016 16:32

Instrument :

BNA_F

ClientSampled :

NC-04



Tot Ion:154 Resp: 50463

Ion Ratio Lower Upper

154 100

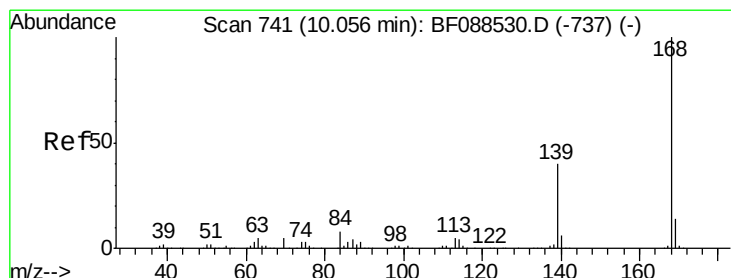
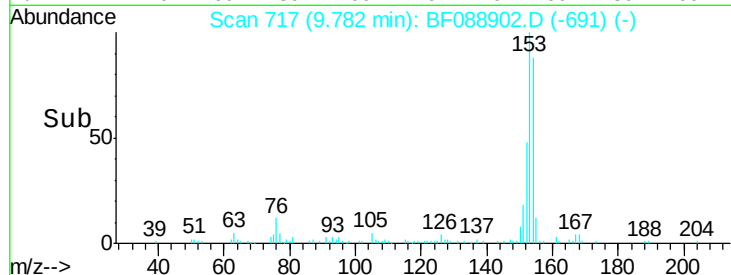
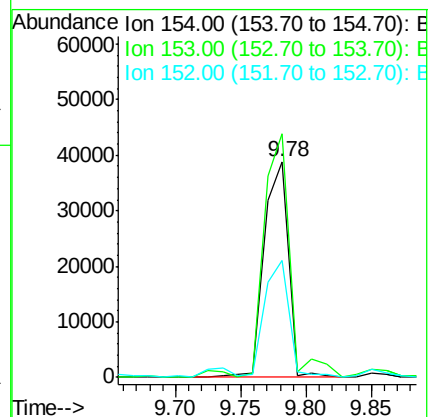
153 112.9 89.5 134.3

152 54.3 42.7 64.1

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#54

Dibenzofuran

Concen: 6.24 ng

RT: 9.95 min Scan# 732

Delta R.T. -0.00 min

Lab File: BF088902.D

Acq: 11 Jul 2016 16:32

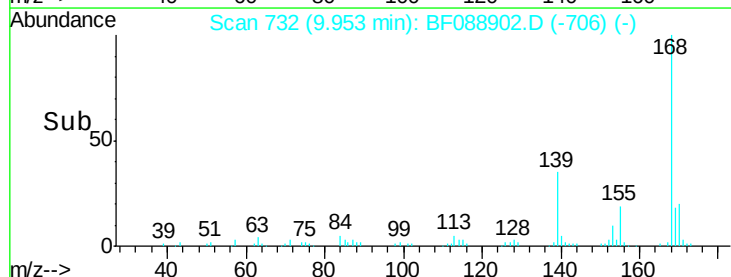
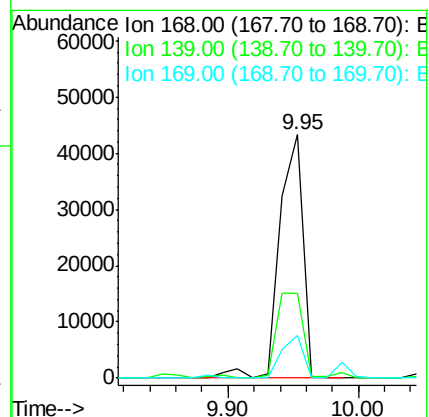
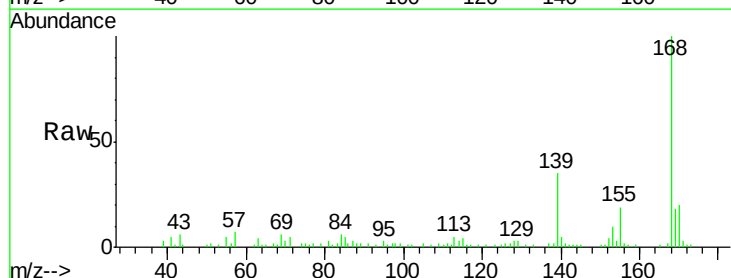
Tgt Ion:168 Resp: 54342

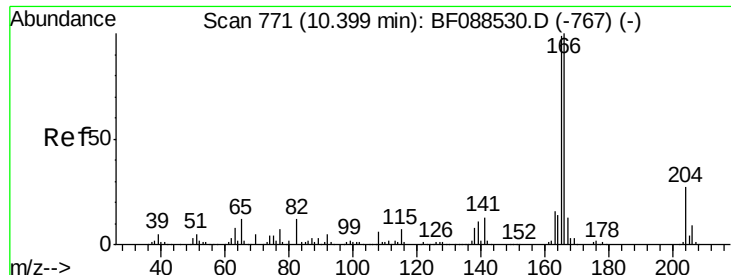
Ion Ratio Lower Upper

168 100

139 34.7 26.4 39.6

169 17.8 10.4 15.6#





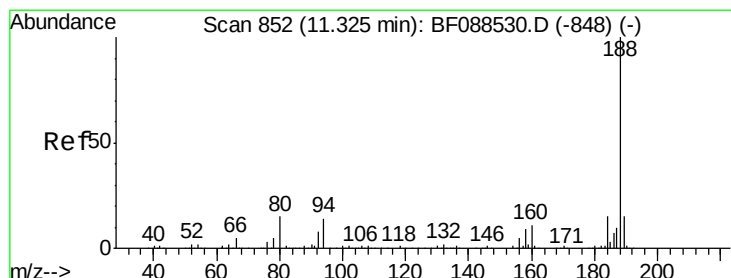
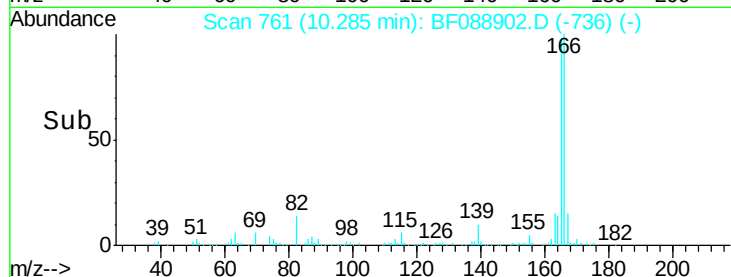
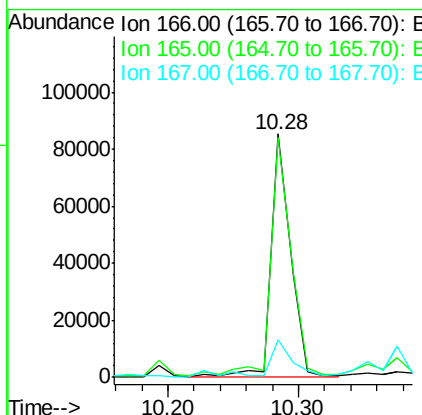
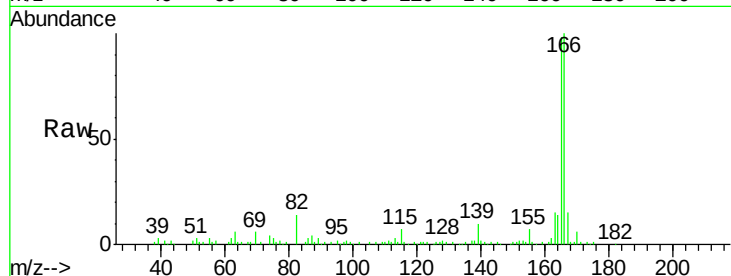
#57
Fluorene
Concen: 13.43 ng
RT: 10.28 min Scan# 761
Delta R.T. -0.01 min
Lab File: BF088902.D
Acq: 11 Jul 2016 16:32

Instrument :
BNA_F
ClientSampled :
NC-04

Tot Ion:166 Resp: 90115
Ion Ratio Lower Upper
166 100
165 98.4 77.8 116.8
167 15.3 11.2 16.8

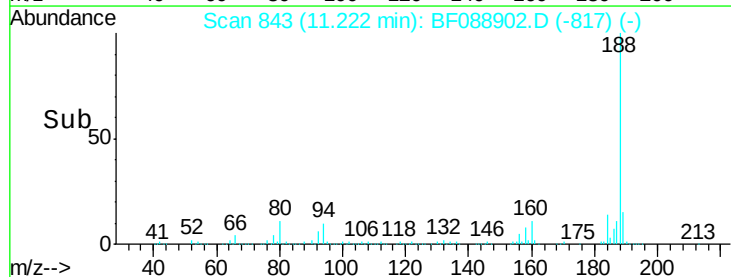
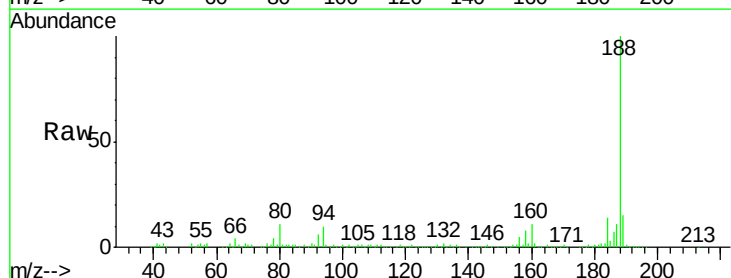
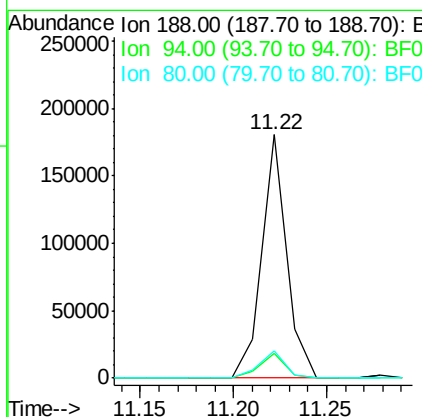
Manual Integrations

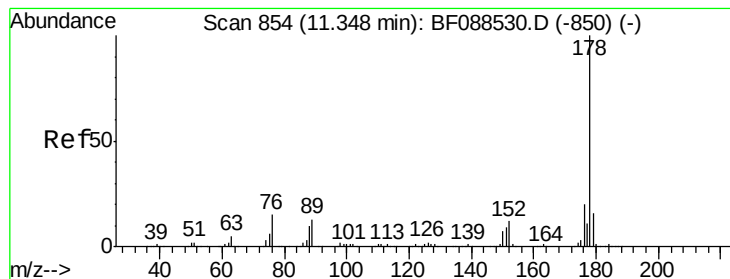
sohil
7/12/2016 7:37:26 PM



#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.22 min Scan# 843
Delta R.T. -0.00 min
Lab File: BF088902.D
Acq: 11 Jul 2016 16:32

Tgt Ion:188 Resp: 168643
Ion Ratio Lower Upper
188 100
94 9.9 9.0 13.6
80 11.3 10.0 15.0





#70

Phenanthrene

Concen: 83.59 ng

RT: 11.24 min Scan# 845

Delta R.T. -0.00 min

Lab File: BF088902.D

Acq: 11 Jul 2016 16:32

Instrument :

BNA_F

ClientSampled :

NC-04

Tot Ion:178 Resp: 770616

Ion Ratio Lower Upper

178 100

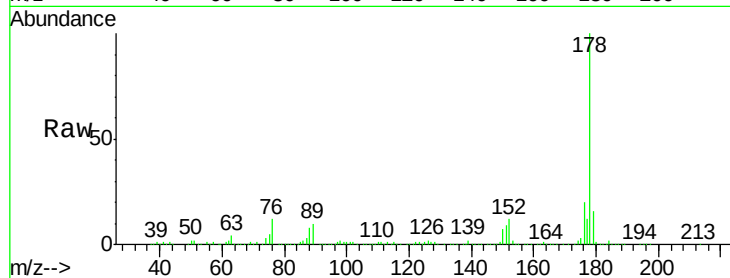
176 19.6 15.8 23.6

179 15.9 13.0 19.4

Manual Integrations

sohil

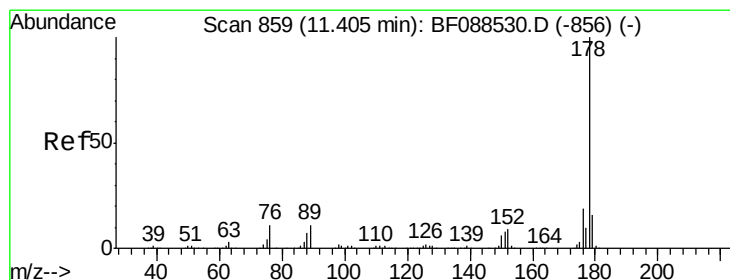
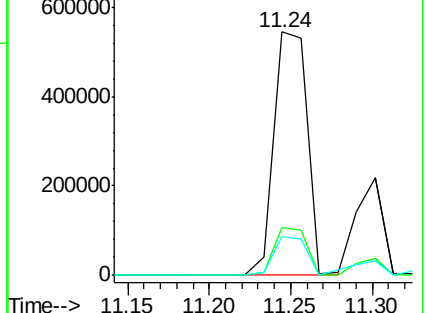
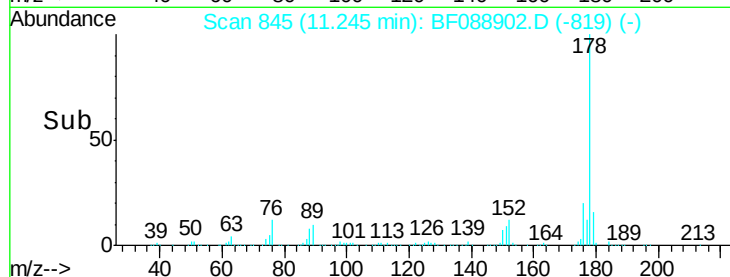
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Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#71

Anthracene

Concen: 27.41 ng

RT: 11.30 min Scan# 850

Delta R.T. -0.00 min

Lab File: BF088902.D

Acq: 11 Jul 2016 16:32

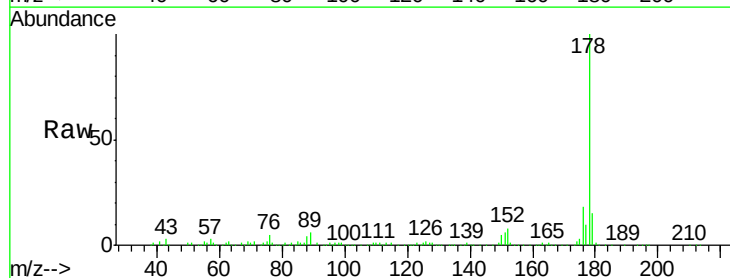
Tgt Ion:178 Resp: 251207

Ion Ratio Lower Upper

178 100

176 18.2 15.6 23.4

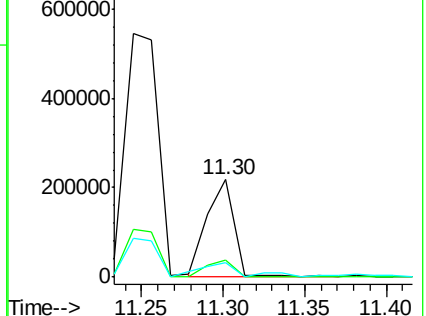
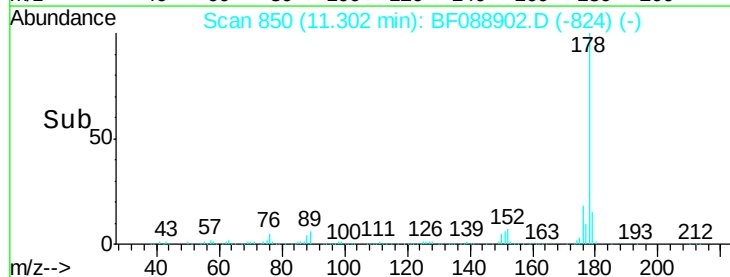
179 15.0 12.8 19.2

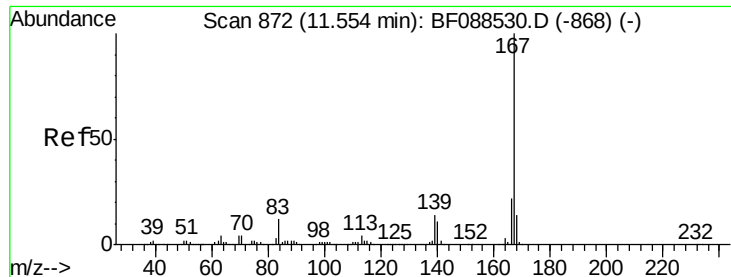


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 5.22 ng

RT: 11.45 min Scan# 863

Delta R.T. -0.00 min

Lab File: BF088902.D

Acq: 11 Jul 2016 16:32

Instrument :

BNA_F

ClientSampleId :

NC-04

Tot Ion:167 Resp: 45024

Ion Ratio Lower Upper

167 100

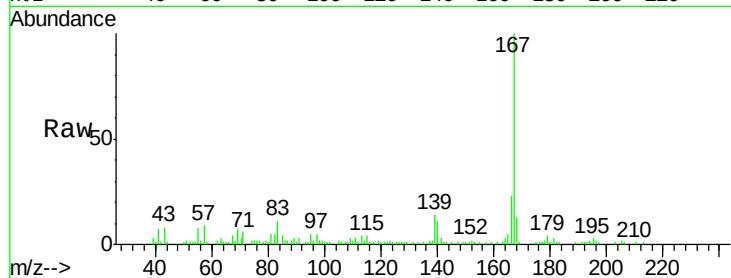
166 22.8 17.8 26.6

139 13.9 11.2 16.8

Manual Integrations

sohil

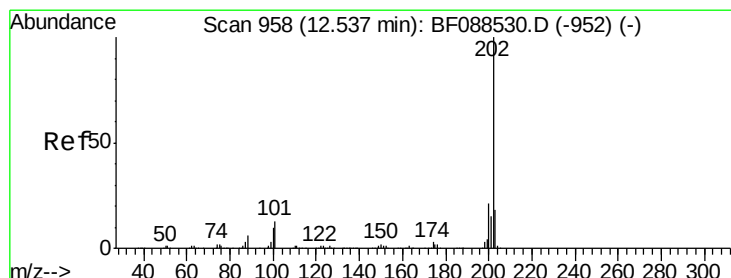
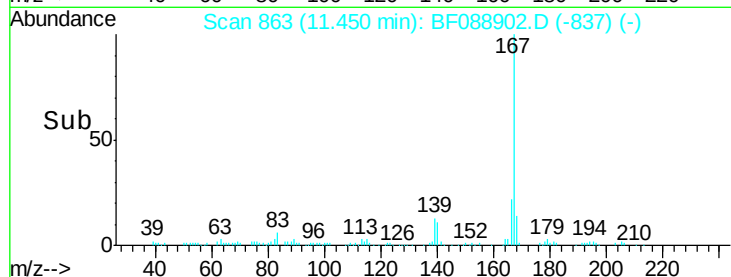
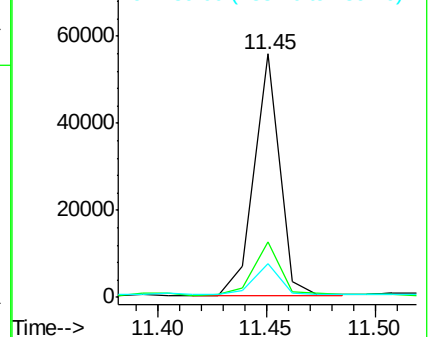
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Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



#74

Fluoranthene

Concen: 87.54 ng

RT: 12.43 min Scan# 949

Delta R.T. 0.01 min

Lab File: BF088902.D

Acq: 11 Jul 2016 16:32

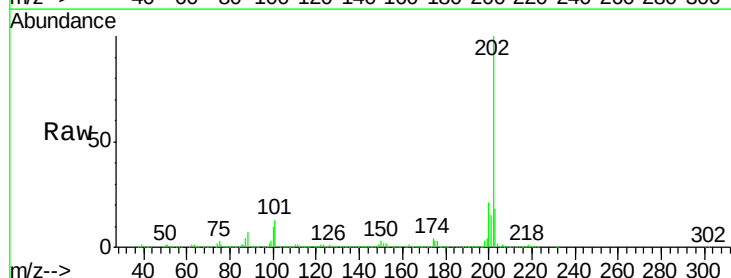
Tgt Ion:202 Resp: 818151

Ion Ratio Lower Upper

202 100

101 13.3 0.0 33.1

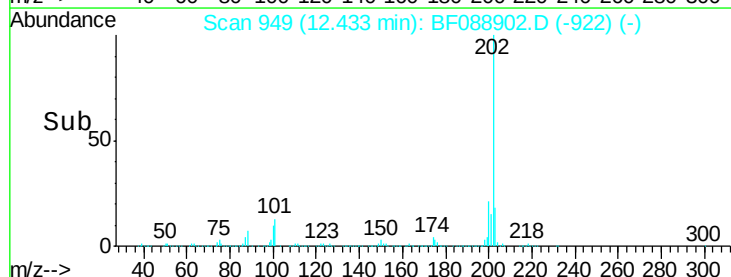
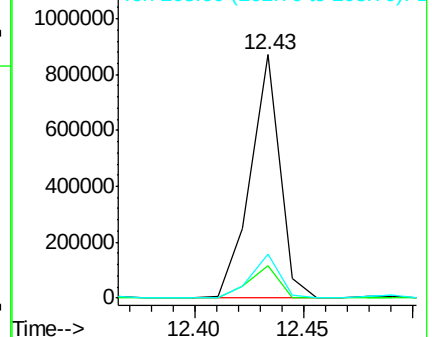
203 18.1 0.0 38.1

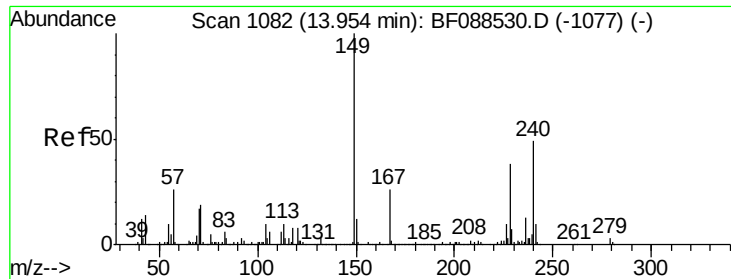


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.85 min Scan# 1073

Delta R.T. -0.00 min

Lab File: BF088902.D

Acq: 11 Jul 2016 16:32

Instrument :

BNA_F

ClientSampled :

NC-04

Tot Ion:240 Resp: 138018

Ion Ratio Lower Upper

240 100

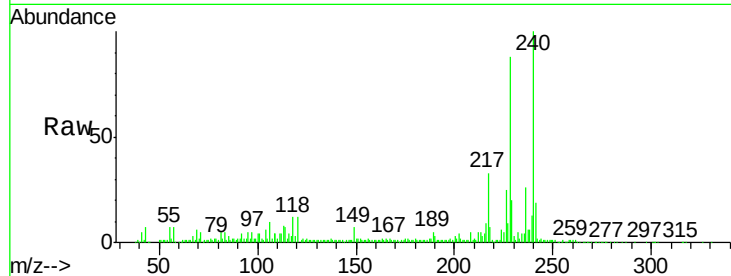
120 12.4 6.8 10.2#

236 25.6 20.2 30.2

Manual Integrations

sohil

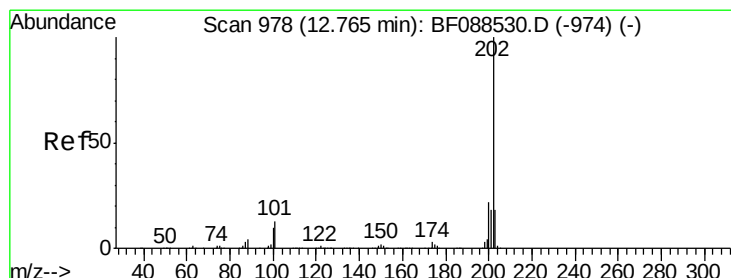
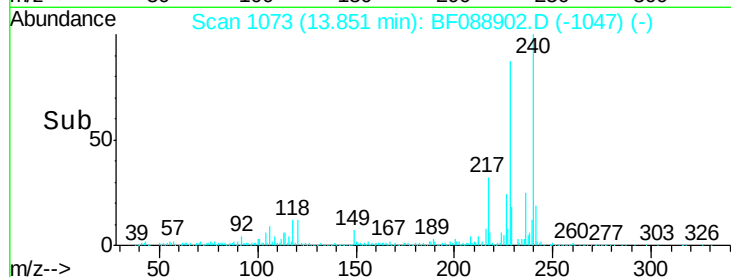
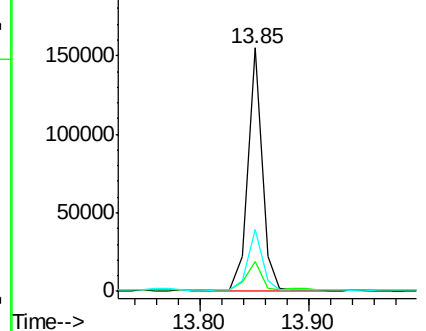
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Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 72.27 ng

RT: 12.66 min Scan# 969

Delta R.T. 0.01 min

Lab File: BF088902.D

Acq: 11 Jul 2016 16:32

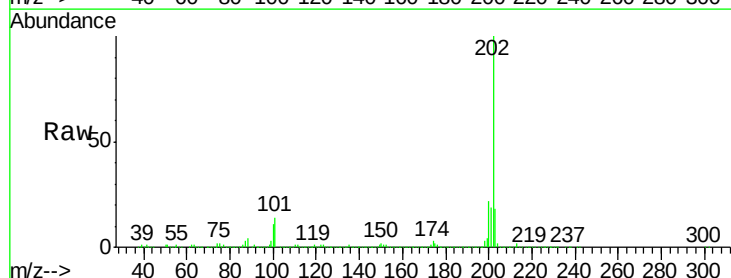
Tgt Ion:202 Resp: 845723

Ion Ratio Lower Upper

202 100

200 22.1 17.4 26.2

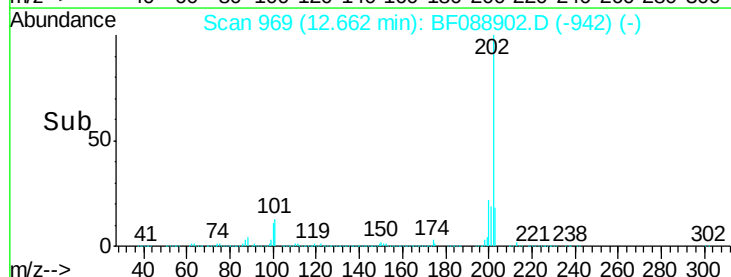
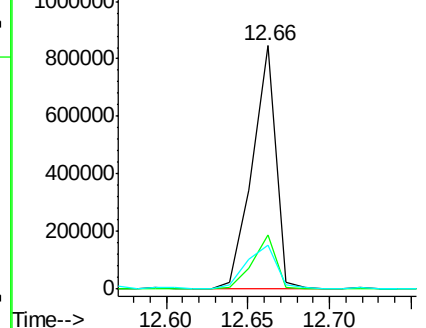
203 18.1 14.5 21.7

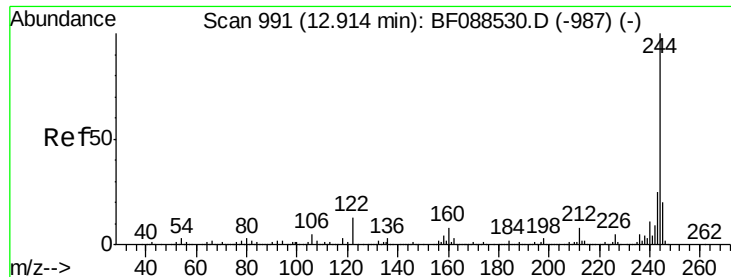


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 82.76 ng

RT: 12.81 min Scan# 982

Delta R.T. 0.01 min

Lab File: BF088902.D

Acq: 11 Jul 2016 16:32

Instrument :

BNA_F

ClientSampleId :

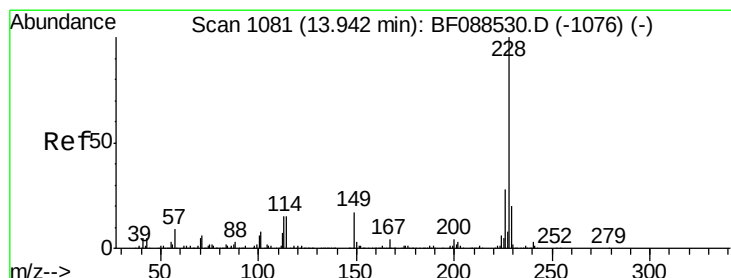
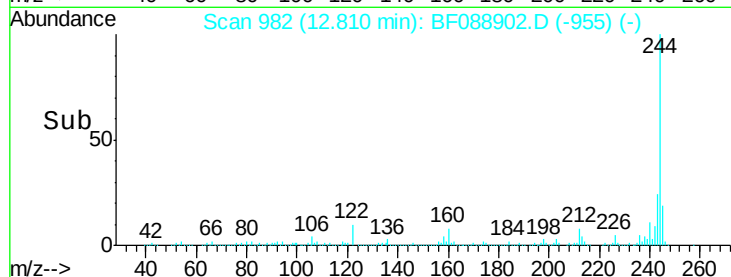
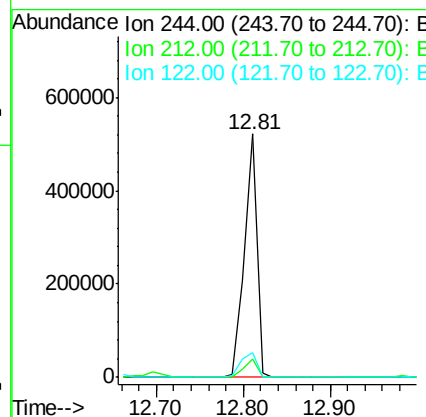
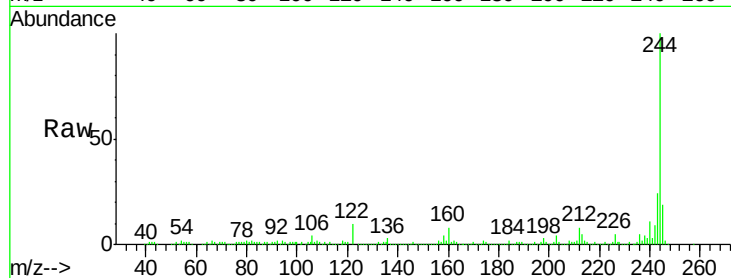
NC-04

Tot Ion	Ratio	Lower	Upper
244	100		
212	7.6	6.0	9.0
122	10.3	11.2	16.8

Manual Integrations

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#80

Benzo(a)anthracene

Concen: 52.19 ng

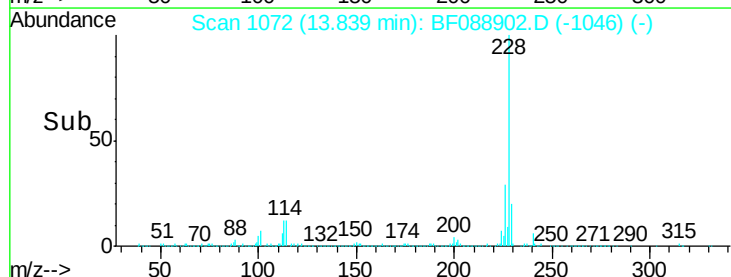
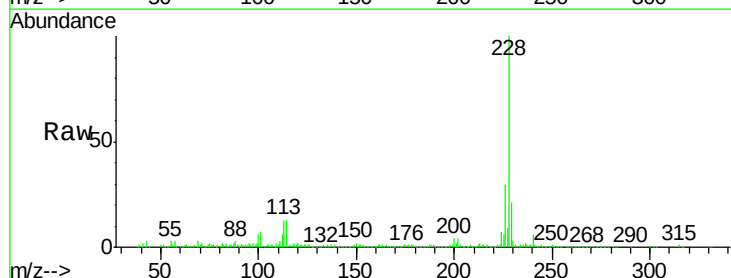
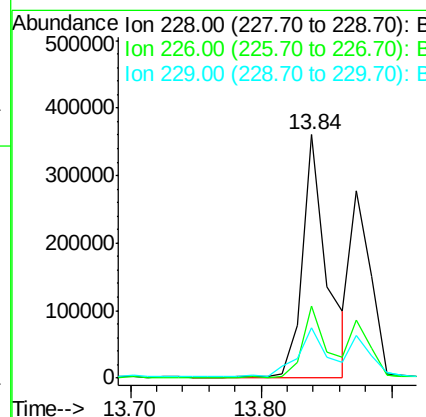
RT: 13.84 min Scan# 1072

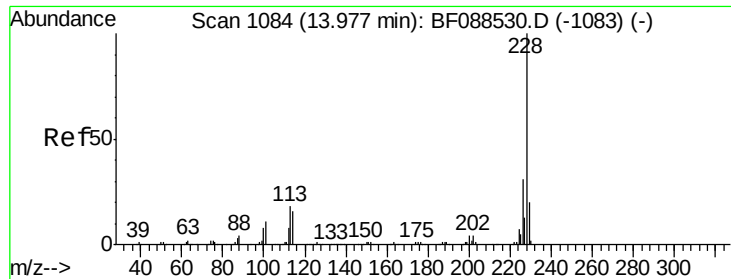
Delta R.T. -0.00 min

Lab File: BF088902.D

Acq: 11 Jul 2016 16:32

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.7	22.3	33.5
229	20.8	16.0	24.0





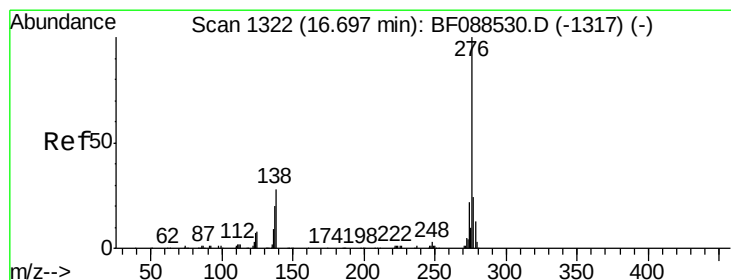
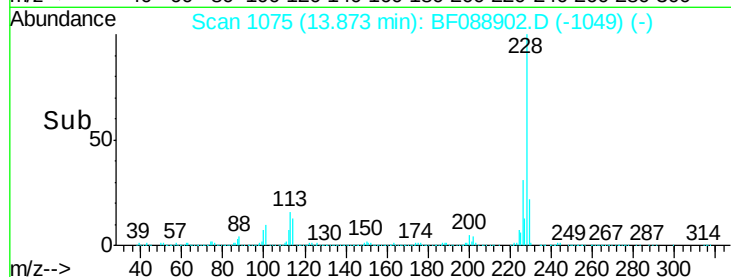
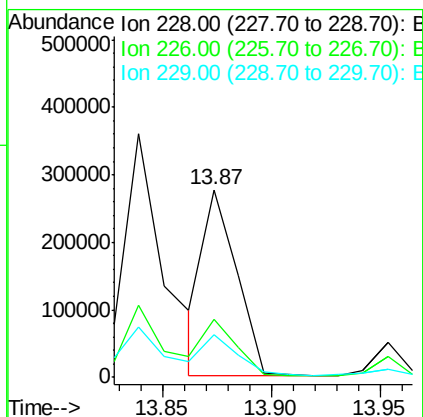
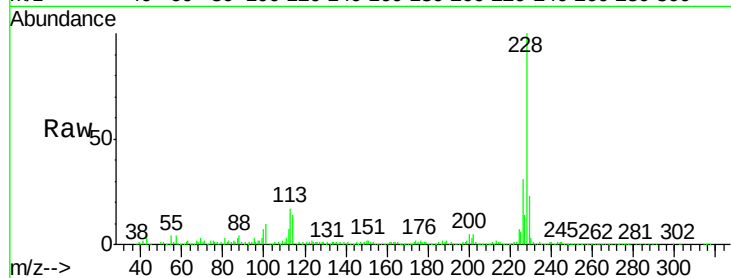
#82
Chrysene
Concen: 33.80 ng
RT: 13.87 min Scan# 1075
Delta R.T. -0.00 min
Lab File: BF088902.D
Acq: 11 Jul 2016 16:32

Instrument :
BNA_F
ClientSampled :
NC-04

Tot Ion	Ratio	Lower	Upper
228	100		
226	30.9	25.4	38.2
229	23.0	16.3	24.5

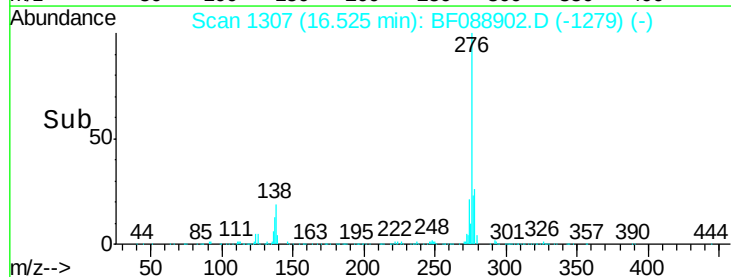
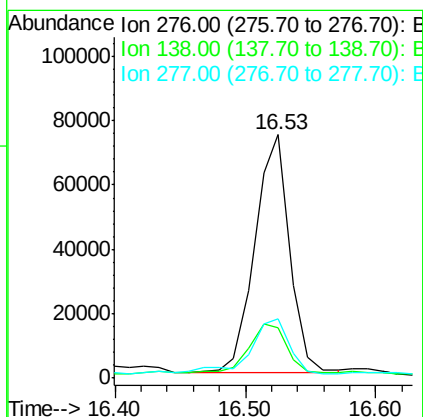
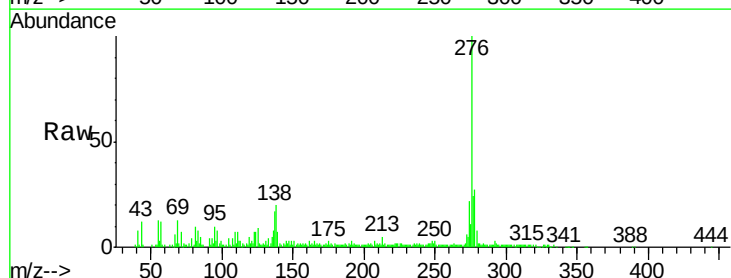
Manual Integrations

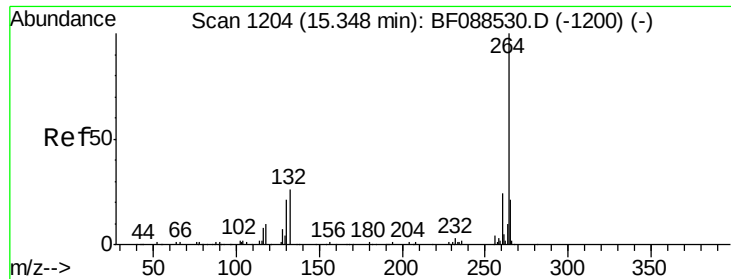
sohil
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#85
Indeno(1,2,3-cd)pyrene
Concen: 20.25 ng
RT: 16.53 min Scan# 1307
Delta R.T. 0.02 min
Lab File: BF088902.D
Acq: 11 Jul 2016 16:32

Tgt Ion	Ratio	Lower	Upper
276	100		
138	23.0	0.0	0.0#
277	28.4	0.0	0.0#





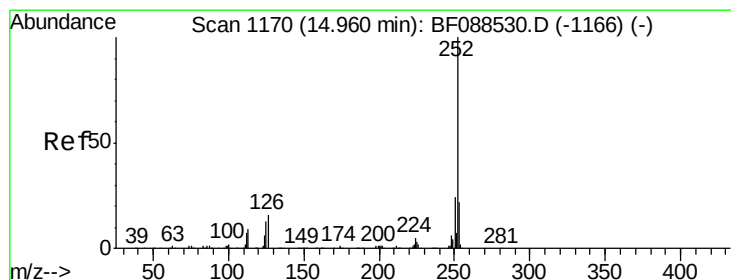
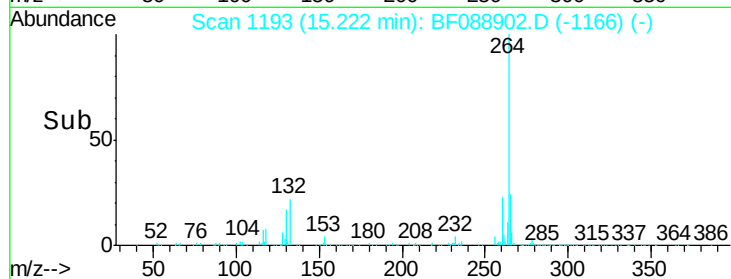
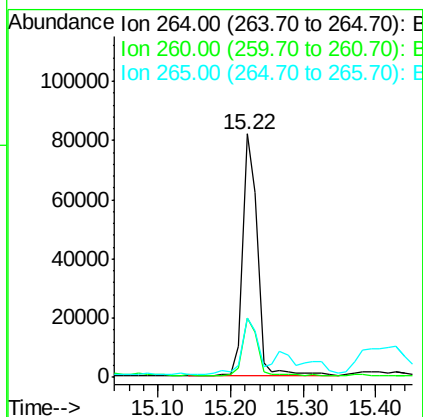
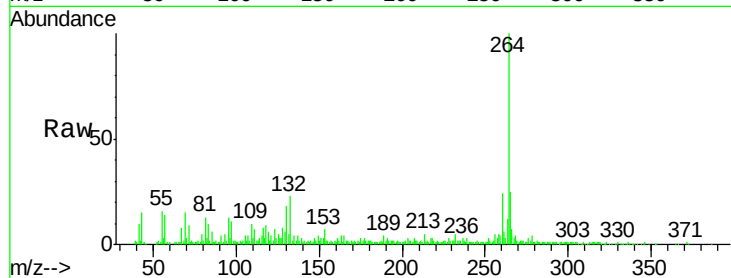
#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.22 min Scan# 1193
Delta R.T. 0.01 min
Lab File: BF088902.D
Acq: 11 Jul 2016 16:32

Instrument :
BNA_F
ClientSampled :
NC-04

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.4	19.2	28.8
265	24.5	16.9	25.3

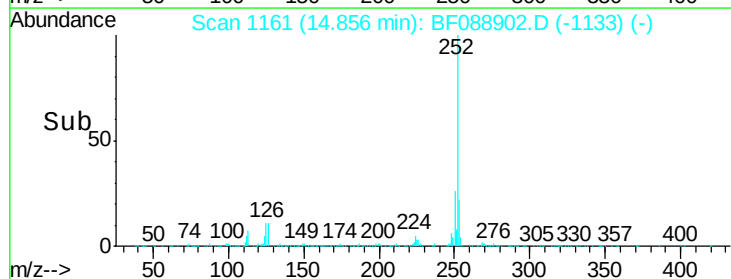
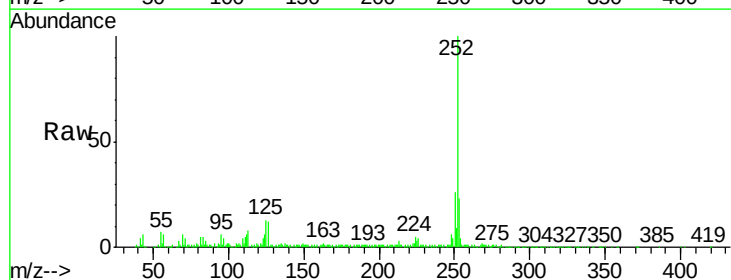
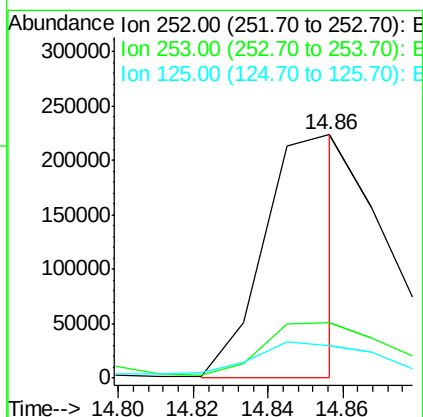
Manual Integrations

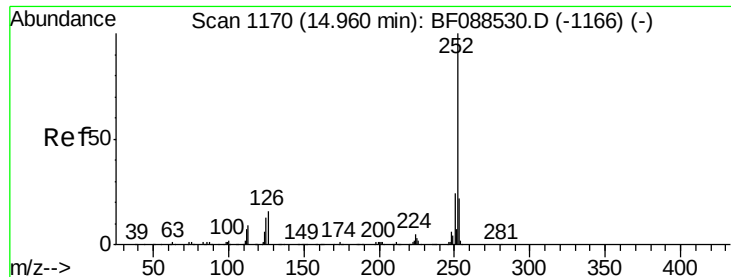
sohil
7/12/2016 7:37:26 PM



#87
Benzo(b)fluoranthene
Concen: 46.21 ng m
RT: 14.86 min Scan# 1161
Delta R.T. 0.02 min
Lab File: BF088902.D
Acq: 11 Jul 2016 16:32

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.4	26.2
125	13.1	7.1	10.7#





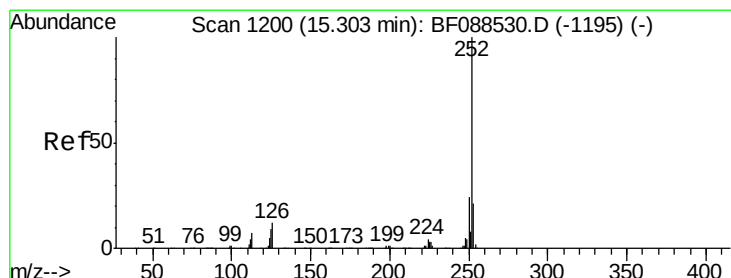
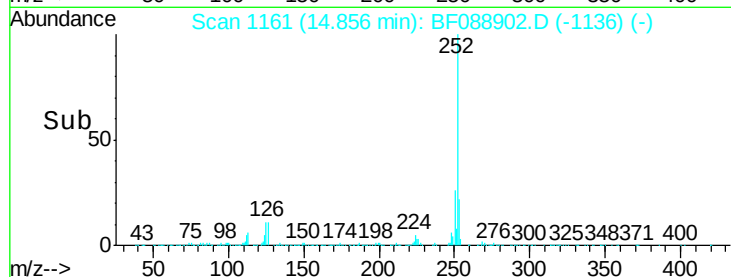
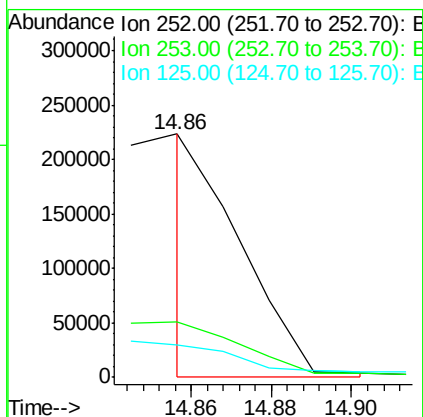
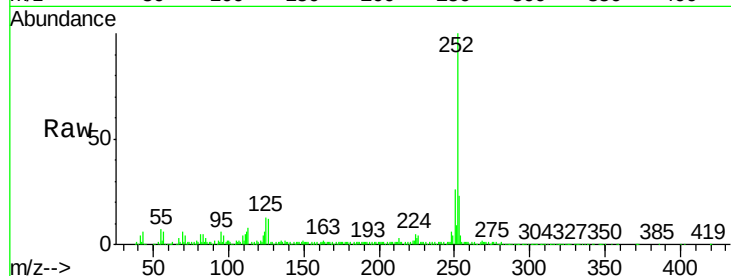
#88
Benzo(k)fluoranthene
Concen: 25.76 ng m
RT: 14.86 min Scan# 1161
Delta R.T. -0.01 min
Lab File: BF088902.D
Acq: 11 Jul 2016 16:32

Instrument :
BNA_F
ClientSampleId :
NC-04

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.8	18.0	27.0
125	13.1	11.2	16.8

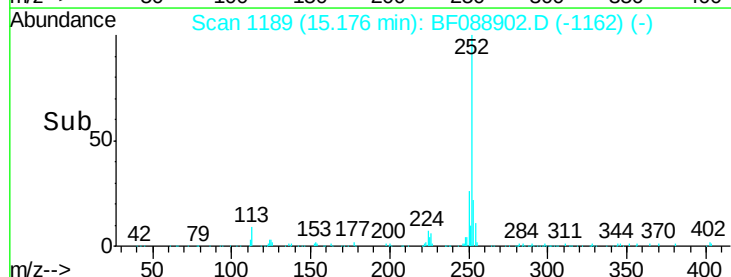
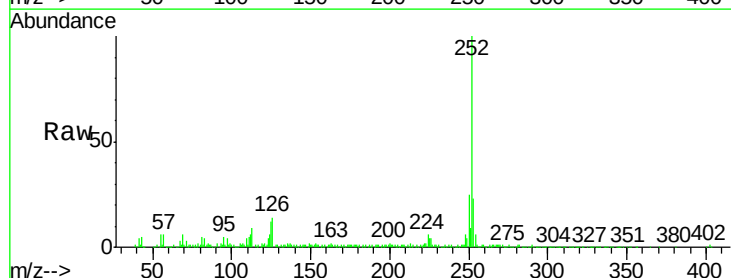
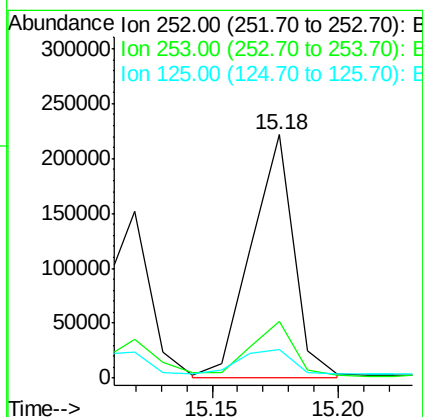
Manual Integrations

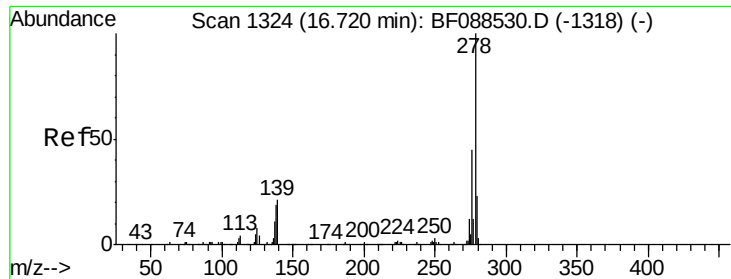
sohil
7/12/2016 7:37:26 PM



#89
Benzo(a)pyrene
Concen: 42.78 ng m
RT: 15.18 min Scan# 1189
Delta R.T. 0.01 min
Lab File: BF088902.D
Acq: 11 Jul 2016 16:32

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.9	26.9
125	11.6	12.5	18.7





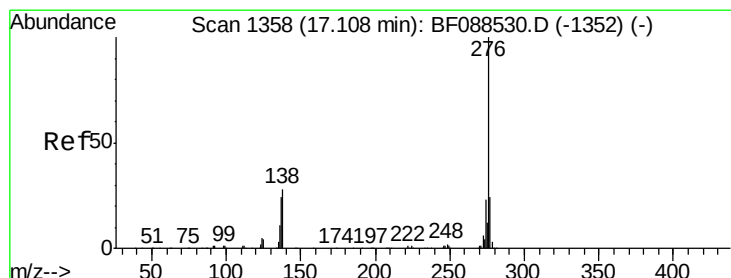
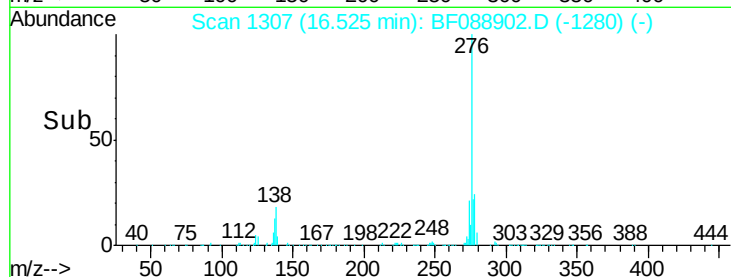
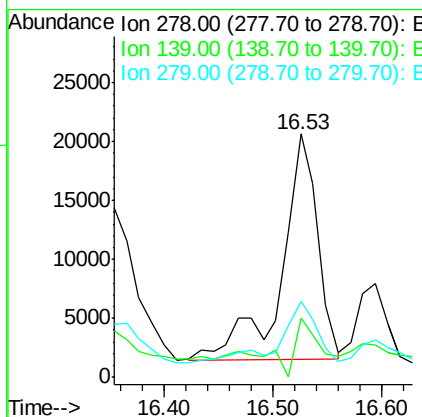
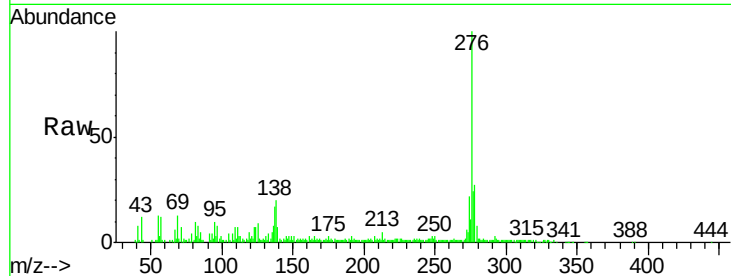
#90
Dibenzo(a,h)anthracene
Concen: 8.74 ng
RT: 16.53 min Scan# 1307
Delta R.T. 0.01 min
Lab File: BF088902.D
Acq: 11 Jul 2016 16:32

Instrument :
BNA_F
ClientSampled :
NC-04

Tot Ion	Ratio	Lower	Upper
278	100		
139	24.5	15.7	23.5#
279	31.1	19.4	29.2#

Manual Integrations

sohil
7/12/2016 7:37:26 PM



#91
Benzo(g,h,i)perylene
Concen: 24.18 ng
RT: 16.91 min Scan# 1341
Delta R.T. 0.02 min
Lab File: BF088902.D
Acq: 11 Jul 2016 16:32

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.4	18.9	28.3
138	22.9	21.4	32.2

