

Data Path : V:\HPCHEM1\BNA F\DATA\BF070916\
 Data File : BF088893.D
 Acq On : 10 Jul 2016 2:22
 Operator : UM/SJ
 Sample : H3889-09DL 400X
 Misc :
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SS-9DL

Manual Integrations

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Quant Time: Jul 11 16:12:31 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF063016.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jul 08 18:51:20 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.72	152	69680	20.00	ng	-0.01
21) Naphthalene-d8	8.00	136	268674	20.00	ng	-0.02
38) Acenaphthene-d10	9.75	164	125641	20.00	ng	-0.02
63) Phenanthrene-d10	11.23	188	258771	20.00	ng	-0.01
75) Chrysene-d12	13.85	240	134729	20.00	ng	-0.02
86) Perylene-d12	15.23	264	143322	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.30	112	808	0.17	ng	-0.02
7) Phenol-d6	6.35	99	1195	0.20	ng	-0.02
23) Nitrobenzene-d5	7.28	82	761	0.15	ng	-0.02
41) 2,4,6-Tribromophenol	0.00	330	0	0.00	ng	
44) 2-Fluorobiphenyl	9.07	172	1924	0.24	ng	-0.02
78) Terphenyl-d14	12.81	244	2049	0.34	ng	-0.01
Target Compounds						
51) Acenaphthene	9.78	154	47245	5.93	ng	Qvalue 97
54) Dibenzofuran	9.95	168	29528	2.83	ng	# 89
57) Fluorene	10.30	166	38443	4.78	ng	96
70) Phenanthrene	11.26	178	486935	34.42	ng	98
71) Anthracene	11.30	178	113783	8.09	ng	97
72) Carbazole	11.46	167	69514	5.25	ng	97
74) Fluoranthene	12.43	202	518085	36.13	ng	98
77) Pyrene	12.66	202	458000	40.09	ng	99
80) Benzo(a)anthracene	13.84	228	201177	23.19	ng	99
82) Chrysene	13.87	228	146688	17.09	ng	96
85) Indeno(1,2,3-cd)pyrene	16.51	276	96871	14.67	ng	# 100
87) Benzo(b)fluoranthene	14.85	252	240934m	26.80	ng	
88) Benzo(k)fluoranthene	14.87	252	26406m	3.37	ng	
89) Benzo(a)pyrene	15.18	252	135390m	17.79	ng	
90) Dibenzo(a,h)anthracene	16.53	278	24718m	3.89	ng	
91) Benzo(g,h,i)perylene	16.90	276	91647	13.93	ng	96

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

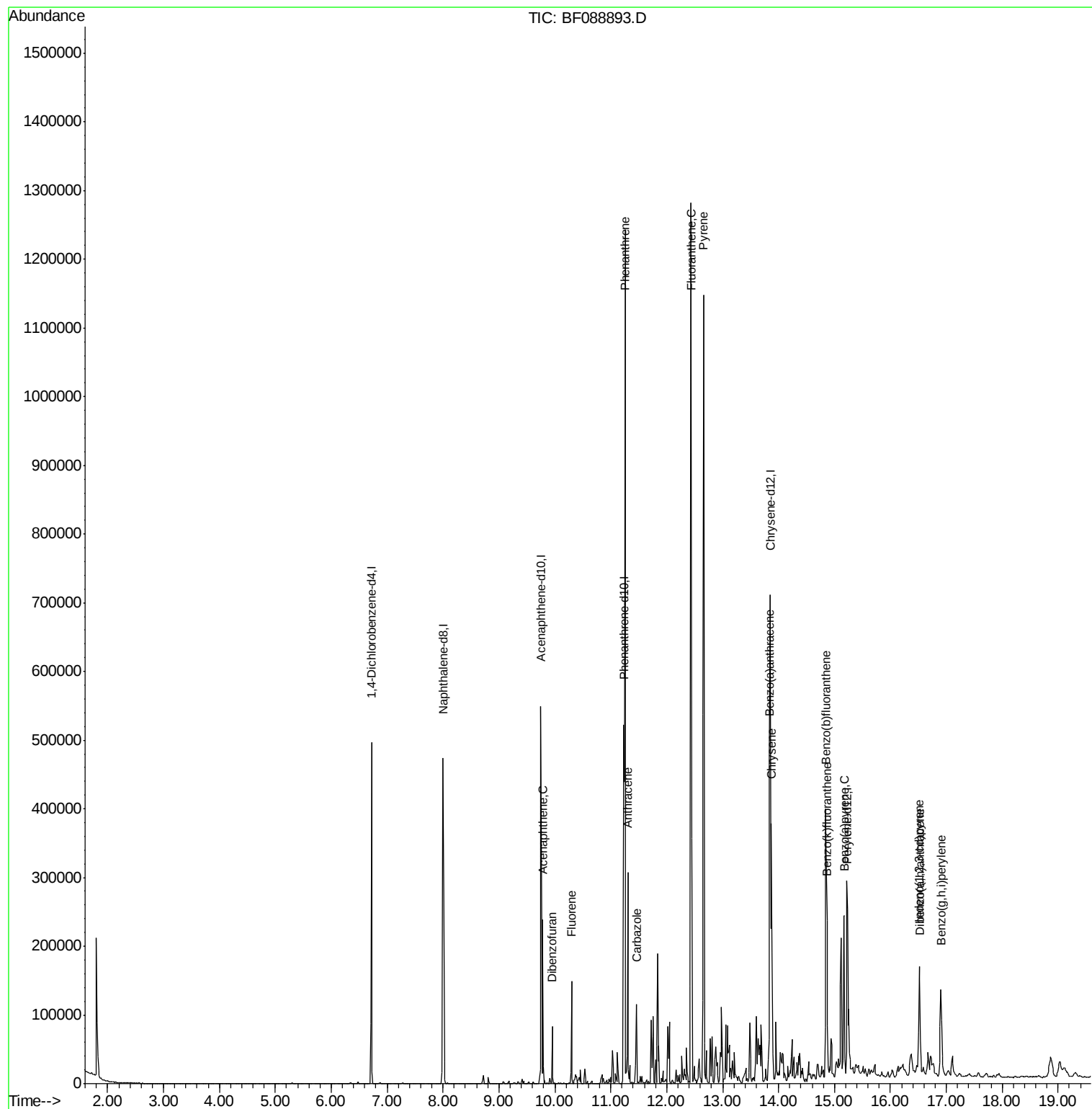
Data Path : V:\HPCHEM1\BNA F\DATA\BF070916\
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#1

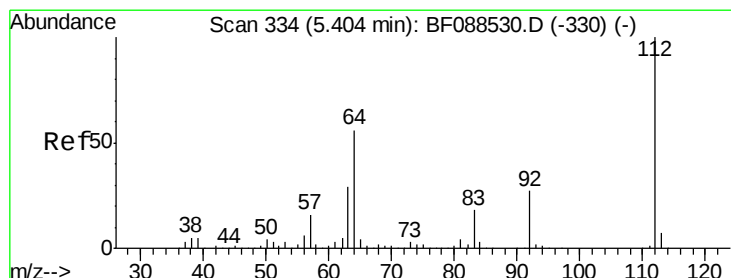
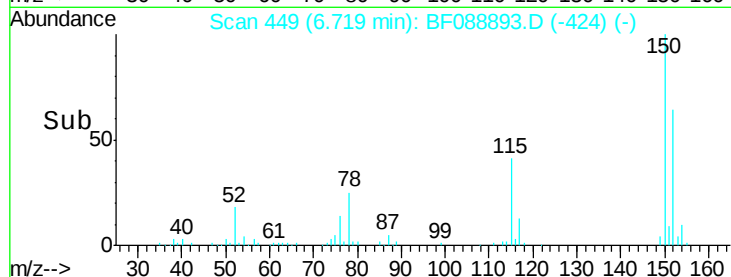
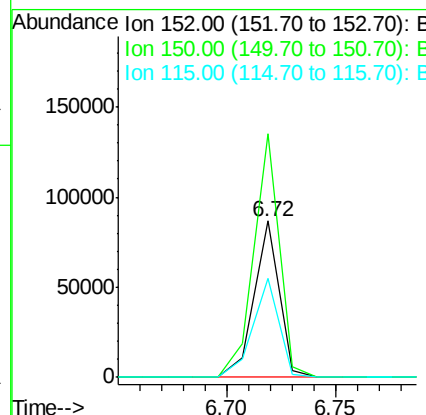
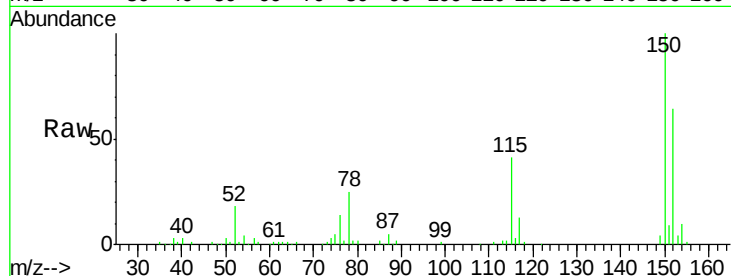
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.72 min Scan# 449
Delta R.T. -0.01 min
Lab File: BF088893.D
Acq: 10 Jul 2016 2:22

Instrument :
BNA_F
ClientSampleId :
SS-9DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	155.6	123.8	185.6
115	63.2	39.6	59.4

Manual Integrations

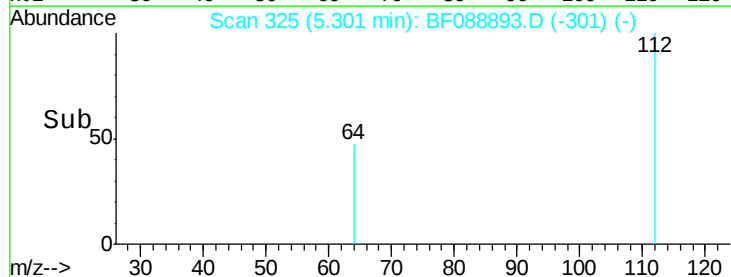
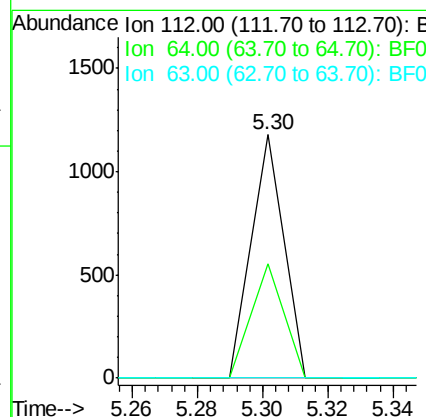
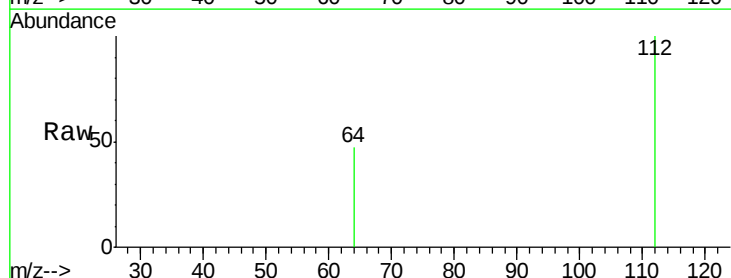
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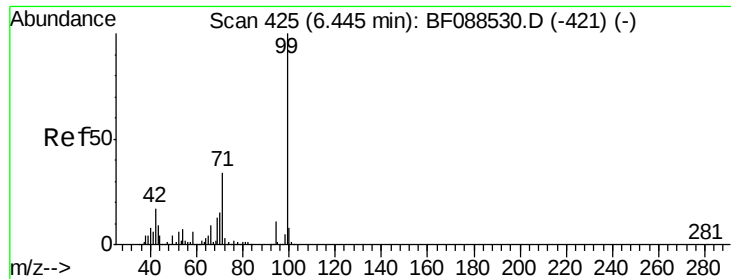


#5

2-Fluorophenol
Concen: 0.17 ng
RT: 5.30 min Scan# 325
Delta R.T. -0.02 min
Lab File: BF088893.D
Acq: 10 Jul 2016 2:22

Tgt Ion	Ratio	Lower	Upper
112	100		
64	47.2	42.2	63.2
63	0.0	21.8	32.8





#7

Phenol-d6

Concen: 0.20 ng

RT: 6.35 min Scan# 417

Delta R.T. -0.02 min

Lab File: BF088893.D

Acq: 10 Jul 2016 2:22

Instrument :

BNA_F

ClientSampled :

SS-9DL

Tot Ion: 99 Resp: 1195

Ion Ratio Lower Upper

99 100

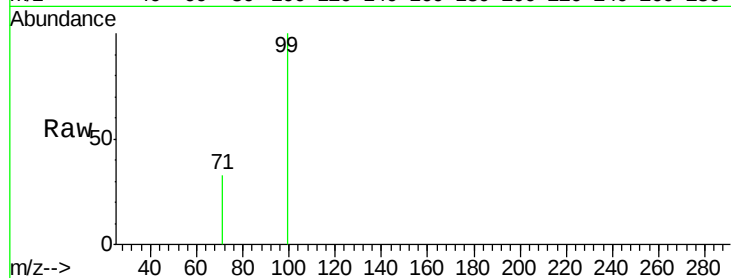
42 0.0 12.2 18.2#

71 33.4 23.4 35.0

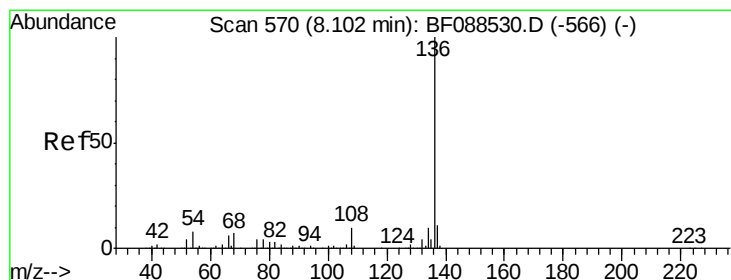
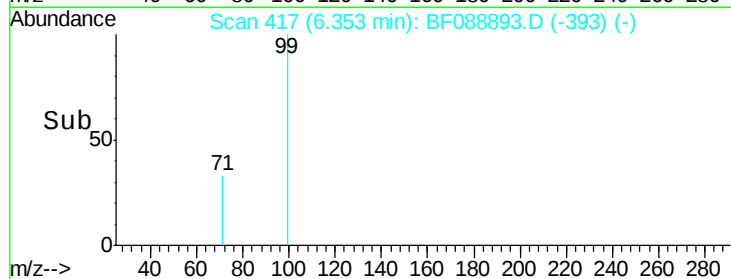
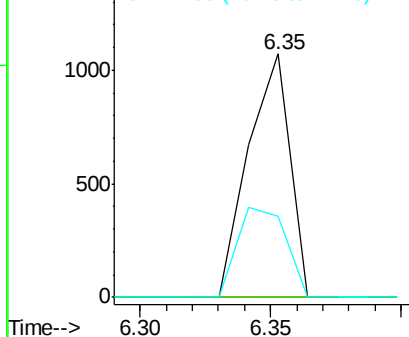
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Abundance Ion 99.00 (98.70 to 99.70): BF0
Ion 42.00 (41.70 to 42.70): BF0
Ion 71.00 (70.70 to 71.70): BF0



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.00 min Scan# 561

Delta R.T. -0.02 min

Lab File: BF088893.D

Acq: 10 Jul 2016 2:22

Tgt Ion: 136 Resp: 268674

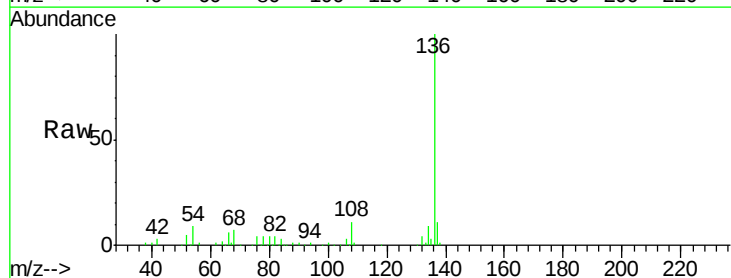
Ion Ratio Lower Upper

136 100

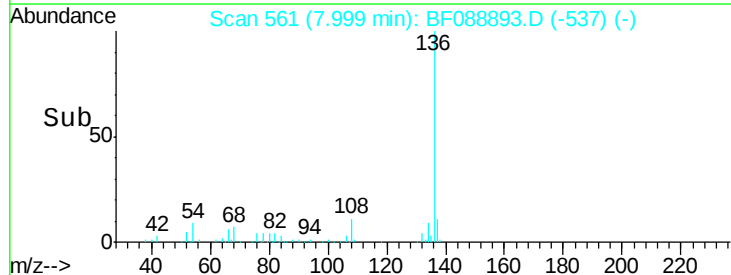
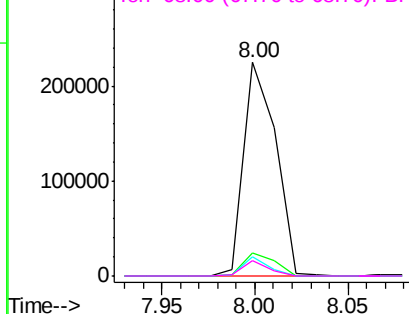
137 11.1 9.1 13.7

54 9.0 6.6 10.0

68 7.3 5.1 7.7



Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF0
Ion 68.00 (67.70 to 68.70): BF0





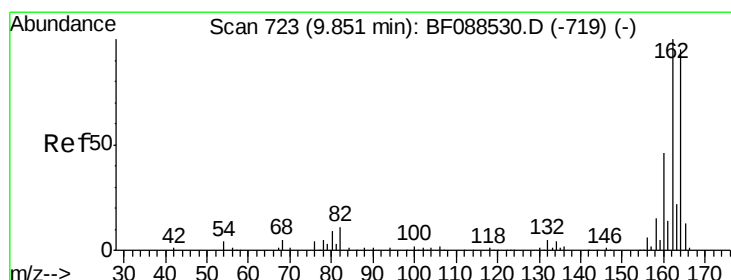
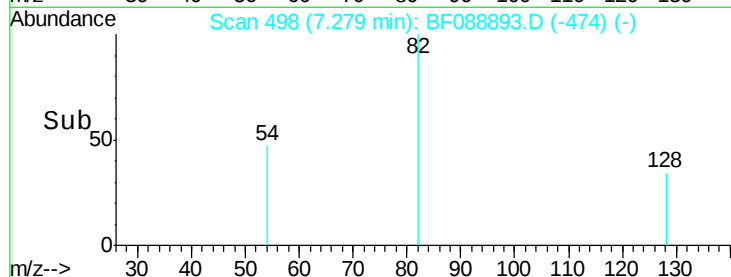
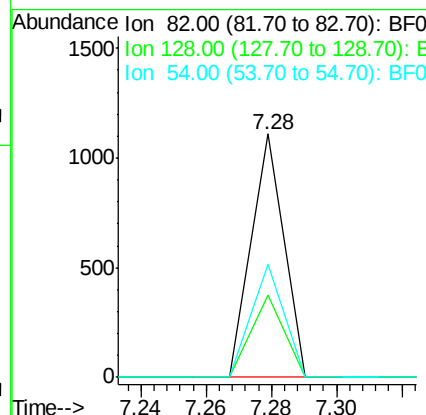
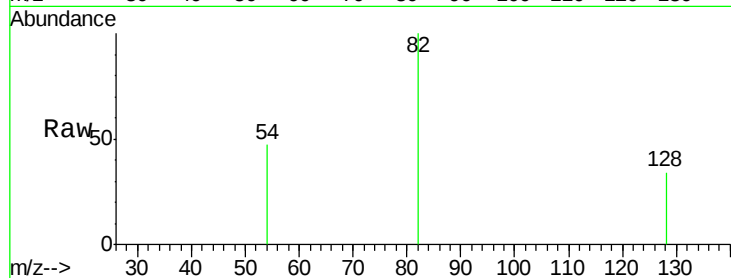
#23
 Nitrobenzene-d5
 Concen: 0.15 ng
 RT: 7.28 min Scan# 498
 Delta R.T. -0.02 min
 Lab File: BF088893.D
 Acq: 10 Jul 2016 2:22

Instrument :
 BNA_F
 ClientSampleID :
 SS-9DL

Tot Ion:	82	Resp:	761
Ion Ratio	Lower	Upper	
82	100		
128	34.1	35.9	53.9#
54	46.6	40.9	61.3

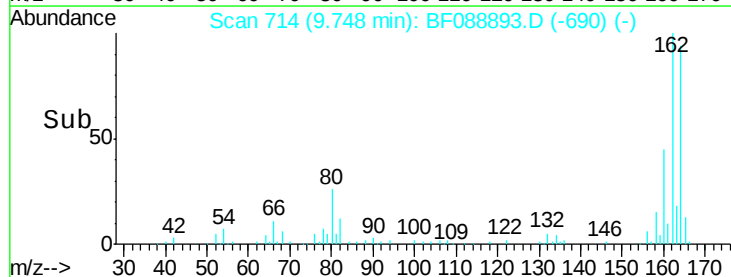
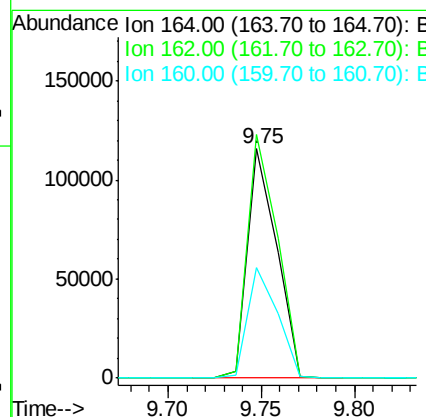
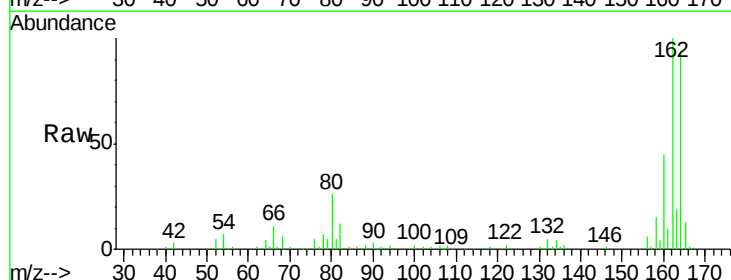
Manual Integrations

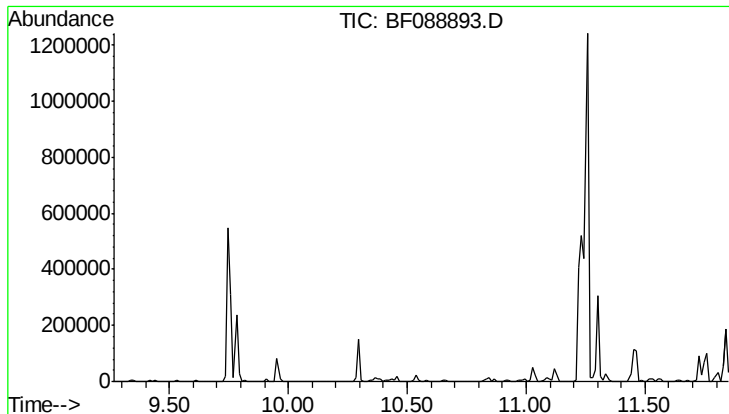
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#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.75 min Scan# 714
 Delta R.T. -0.02 min
 Lab File: BF088893.D
 Acq: 10 Jul 2016 2:22

Tgt Ion:	164	Resp:	125641
Ion Ratio	Lower	Upper	
164	100		
162	106.3	85.4	128.2
160	48.0	39.5	59.3





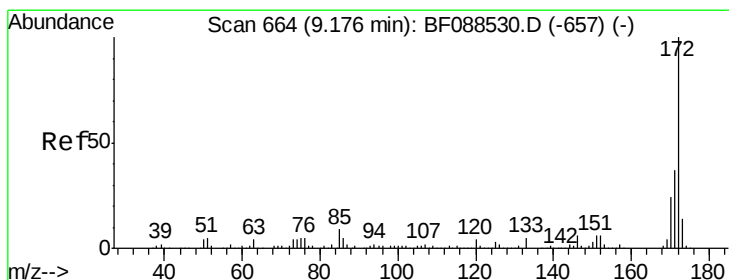
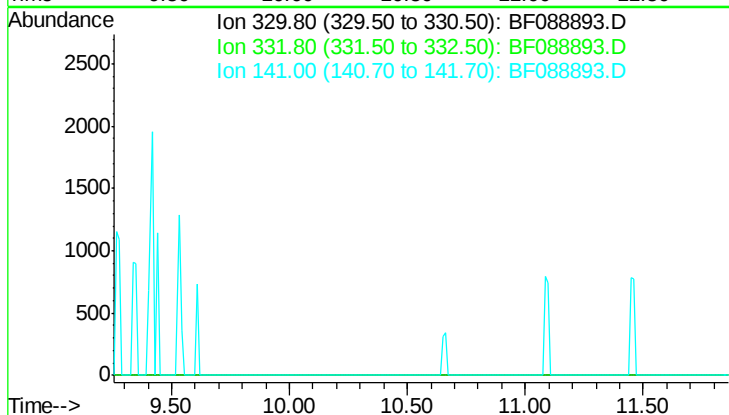
#41
 2,4,6-Tribromophenol
 Concen: 0.00 ng
 Expected RT: 10.56 min
 Lab File: BF088893.D
 Acq: 10 Jul 2016 2:22

Instrument :
 BNA_F
 ClientSampleId :
 SS-9DL

Tot Ion	330	332	141
Exp Ratio	100	0.0	0.0

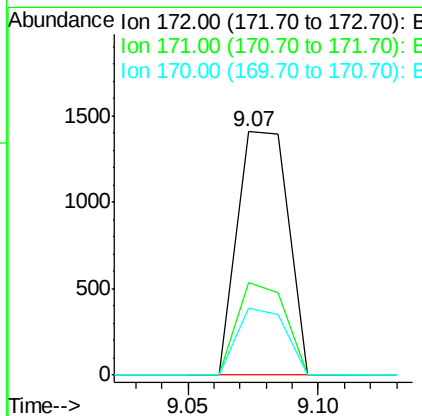
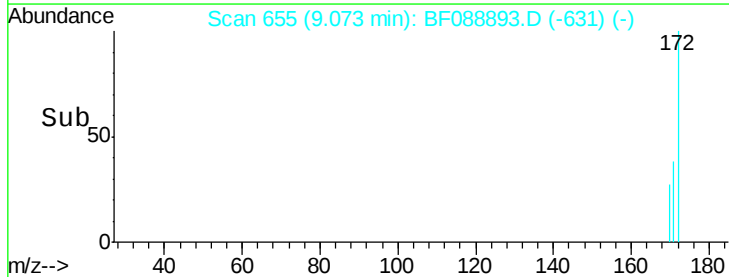
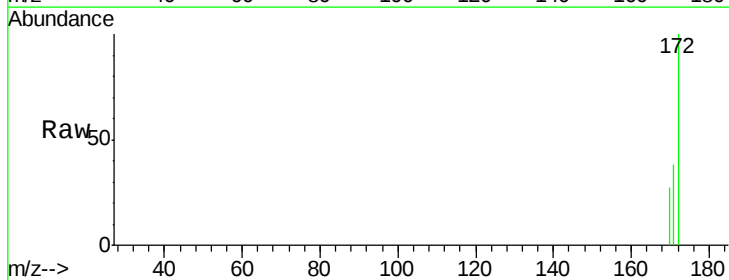
Manual Integrations

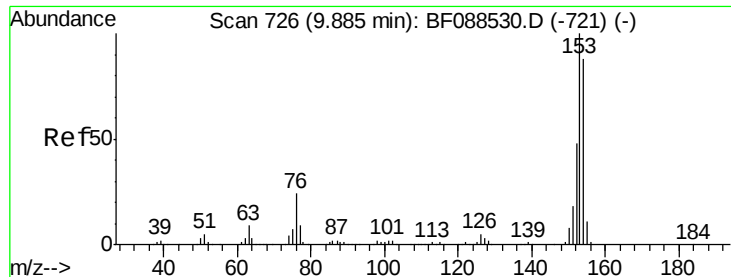
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#44
 2-Fluorobiphenyl
 Concen: 0.24 ng
 RT: 9.07 min Scan# 655
 Delta R.T. -0.02 min
 Lab File: BF088893.D
 Acq: 10 Jul 2016 2:22

Tgt Ion	172	Resp	1924
Ion Ratio	100	Lower	Upper
171	38.3	28.6	43.0
170	27.3	19.2	28.8





#51

Acenaphthene

Concen: 5.93 ng

RT: 9.78 min Scan# 717

Delta R.T. -0.02 min

Lab File: BF088893.D

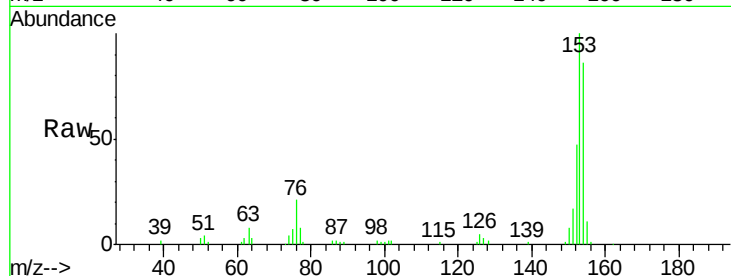
Acq: 10 Jul 2016 2:22

Instrument :

BNA_F

ClientSampleId :

SS-9DL



Tot Ion:154 Resp: 47245

Ion Ratio Lower Upper

154 100

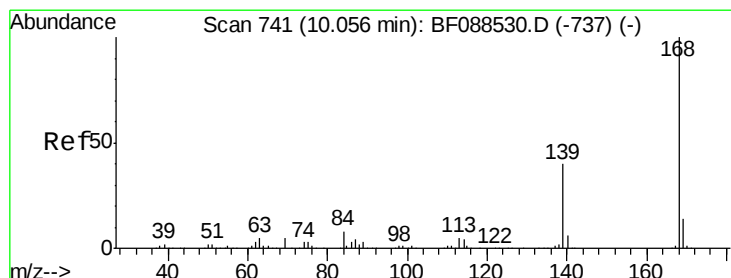
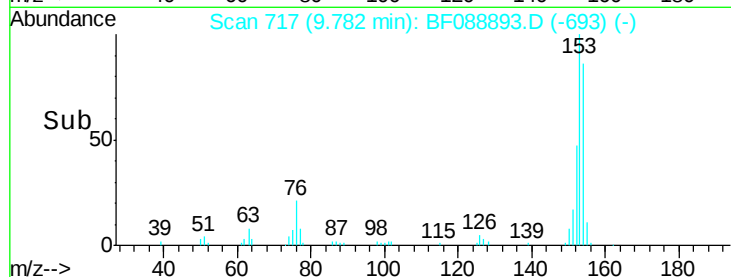
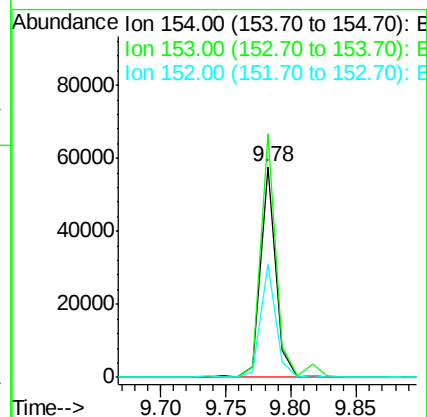
153 115.8 89.5 134.3

152 53.8 42.7 64.1

Manual Integrations

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#54

Dibenzofuran

Concen: 2.83 ng

RT: 9.95 min Scan# 732

Delta R.T. -0.02 min

Lab File: BF088893.D

Acq: 10 Jul 2016 2:22

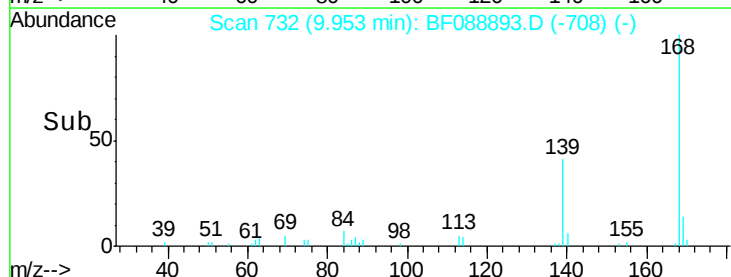
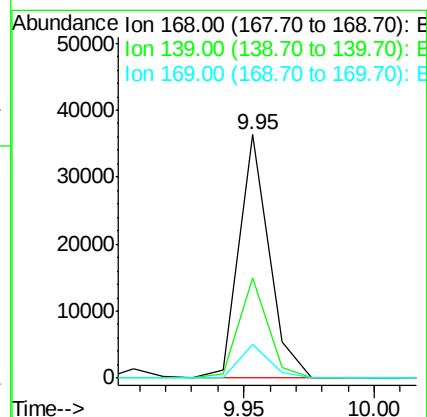
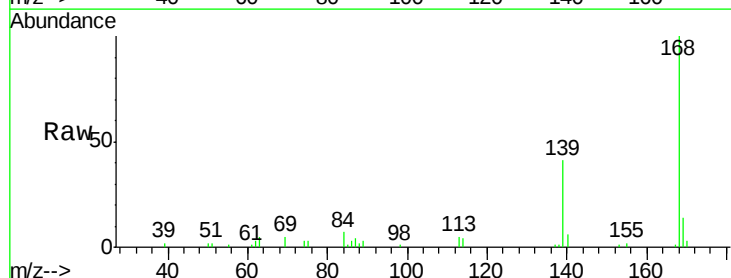
Tgt Ion:168 Resp: 29528

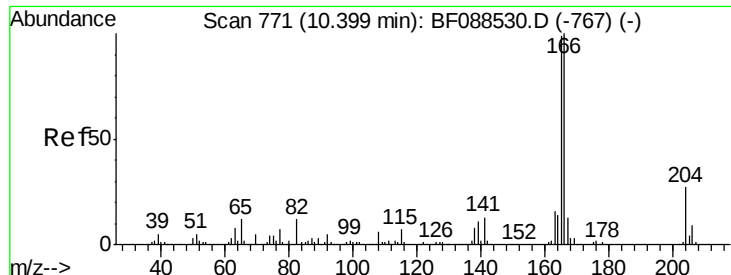
Ion Ratio Lower Upper

168 100

139 40.9 26.4 39.6#

169 13.7 10.4 15.6





#57

Fluorene

Concen: 4.78 ng

RT: 10.30 min Scan# 762

Delta R.T. -0.02 min

Lab File: BF088893.D

Acq: 10 Jul 2016 2:22

Instrument :

BNA_F

ClientSampleId :

SS-9DL

Tot Ion:166 Resp: 38443

Ion Ratio Lower Upper

166 100

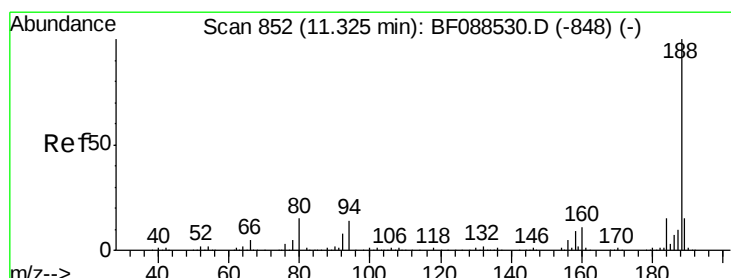
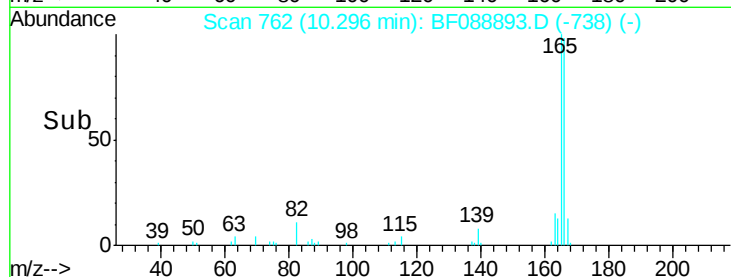
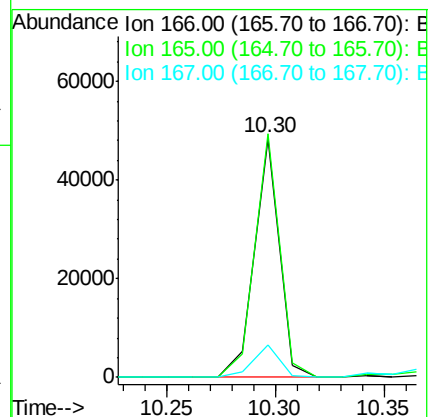
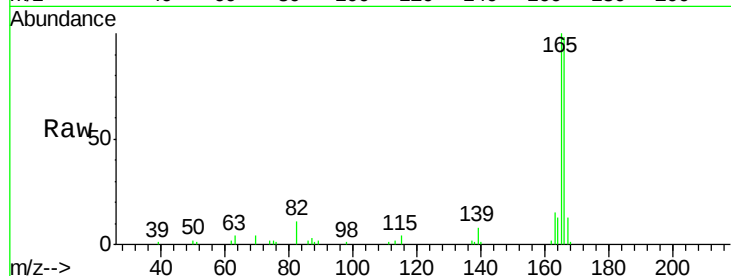
165 102.0 77.8 116.8

167 13.6 11.2 16.8

Manual Integrations

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#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.23 min Scan# 844

Delta R.T. -0.01 min

Lab File: BF088893.D

Acq: 10 Jul 2016 2:22

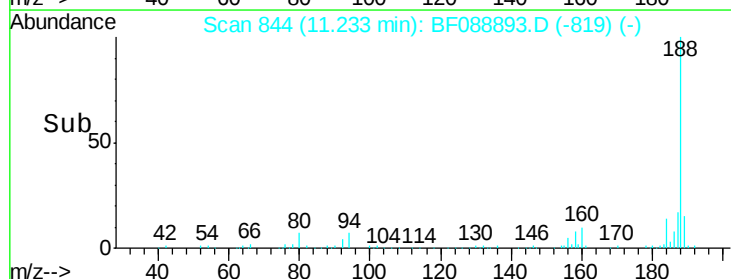
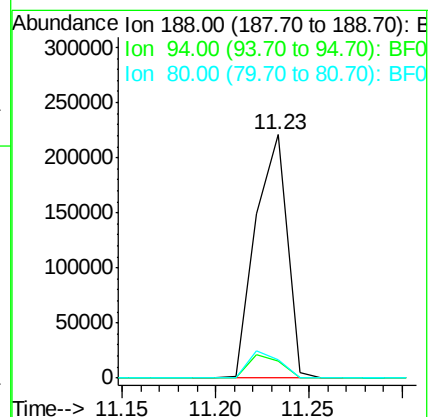
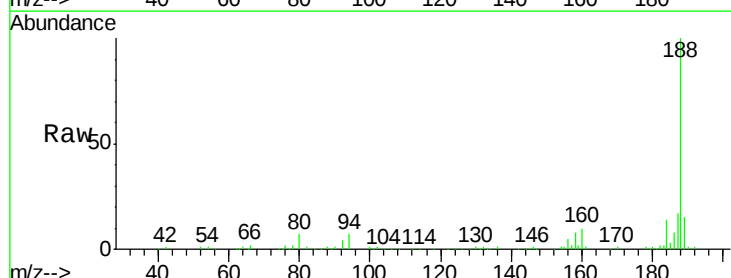
Tgt Ion:188 Resp: 258771

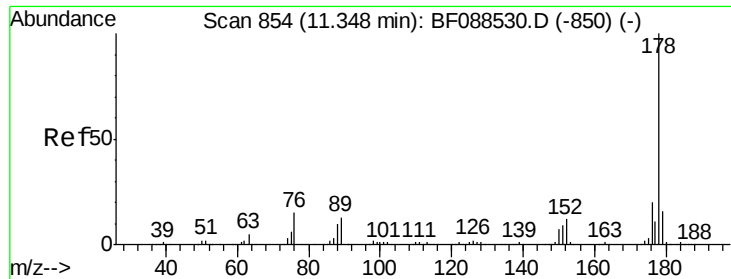
Ion Ratio Lower Upper

188 100

94 7.2 9.0 13.6#

80 7.4 10.0 15.0#





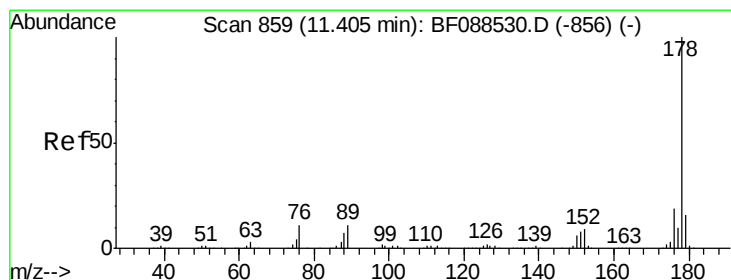
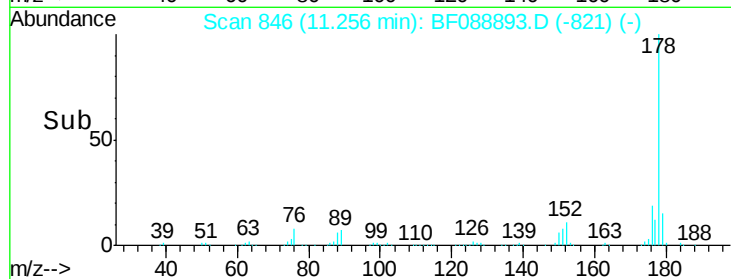
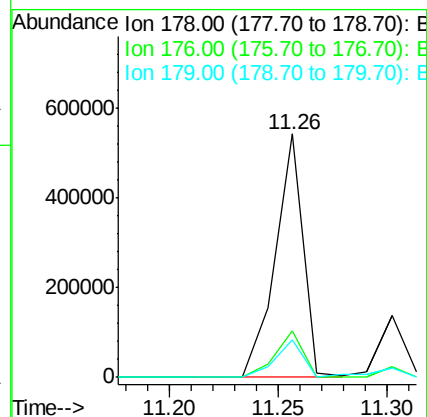
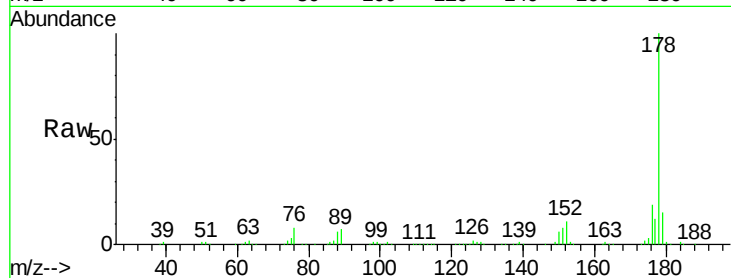
#70
Phenanthrene
Concen: 34.42 ng
RT: 11.26 min Scan# 846
Delta R.T. -0.01 min
Lab File: BF088893.D
Acq: 10 Jul 2016 2:22

Instrument :
BNA_F
ClientSampleId :
SS-9DL

Tot Ion	Ion	Ratio	Lower	Upper
178	100			
176	19.3	15.8	23.6	
179	15.2	13.0	19.4	

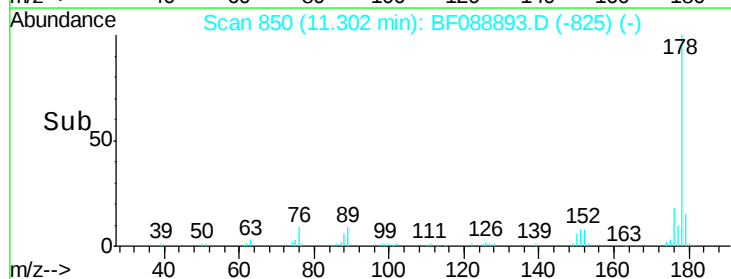
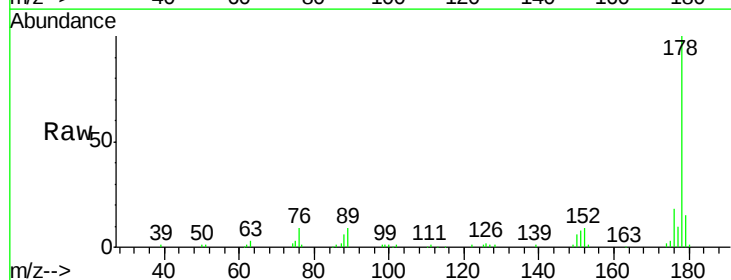
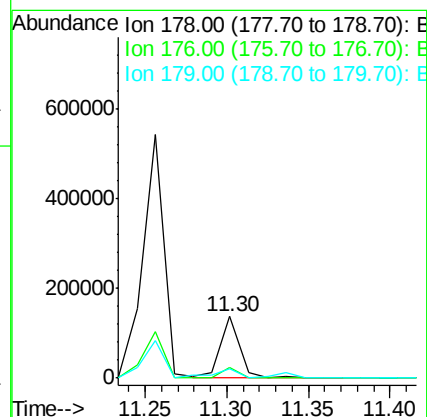
Manual Integrations

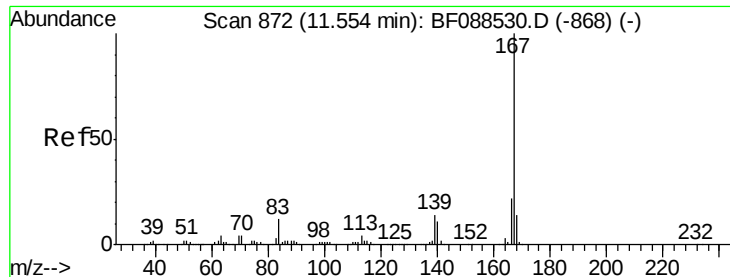
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#71
Anthracene
Concen: 8.09 ng
RT: 11.30 min Scan# 850
Delta R.T. -0.01 min
Lab File: BF088893.D
Acq: 10 Jul 2016 2:22

Tgt Ion	Ion	Ratio	Lower	Upper
178	100			
176	17.9	15.6	23.4	
179	15.4	12.8	19.2	





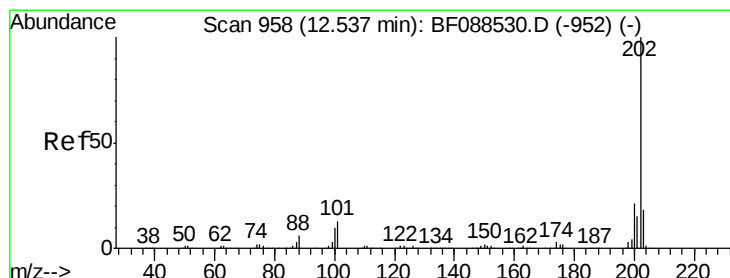
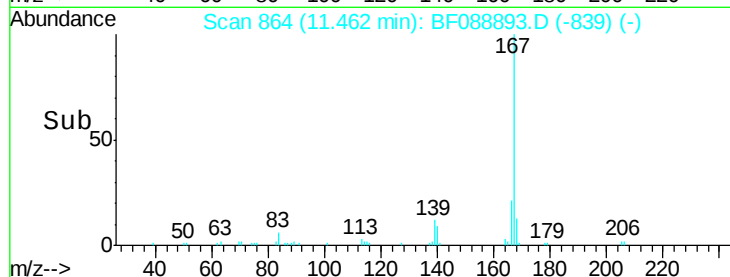
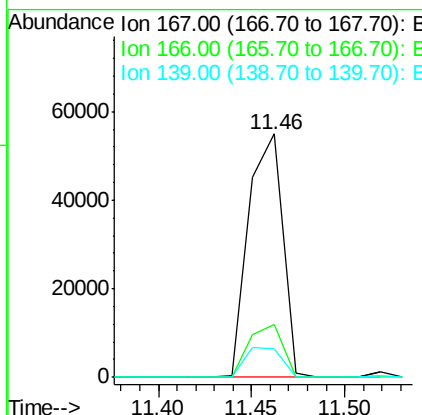
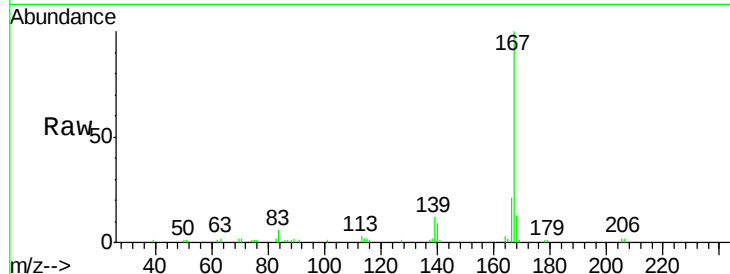
#72
 Carbazole
 Concen: 5.25 ng
 RT: 11.46 min Scan# 864
 Delta R.T. -0.01 min
 Lab File: BF088893.D
 Acq: 10 Jul 2016 2:22

Instrument :
 BNA_F
 ClientSampleId :
 SS-9DL

Tot Ion	Ratio	Lower	Upper
167	100		
166	21.5	17.8	26.6
139	11.8	11.2	16.8

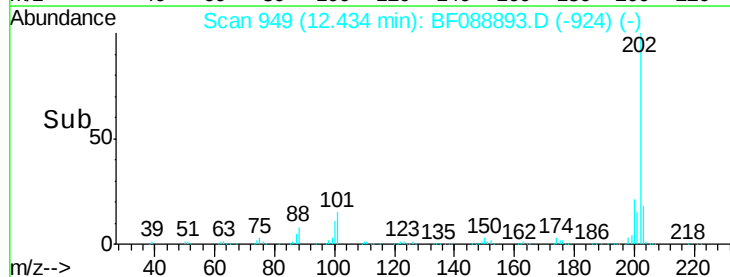
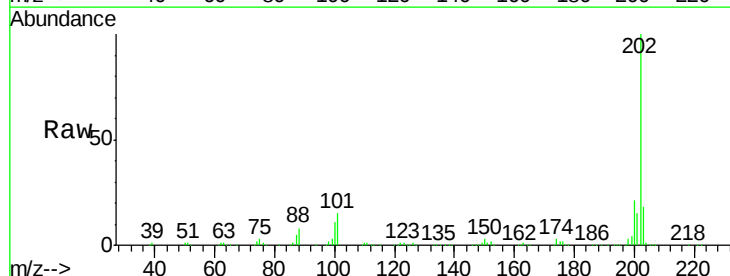
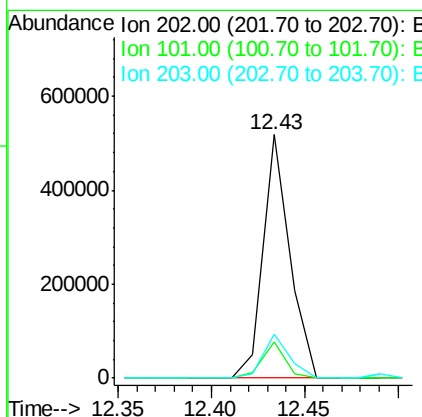
Manual Integrations

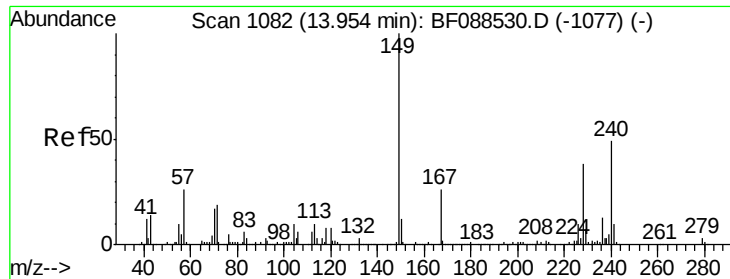
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#74
 Fluoranthene
 Concen: 36.13 ng
 RT: 12.43 min Scan# 949
 Delta R.T. -0.01 min
 Lab File: BF088893.D
 Acq: 10 Jul 2016 2:22

Tgt Ion	Ratio	Lower	Upper
202	100		
101	15.0	0.0	33.1
203	17.9	0.0	38.1





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.85 min Scan# 1073

Delta R.T. -0.02 min

Lab File: BF088893.D

Acq: 10 Jul 2016 2:22

Instrument :

BNA_F

ClientSampled :

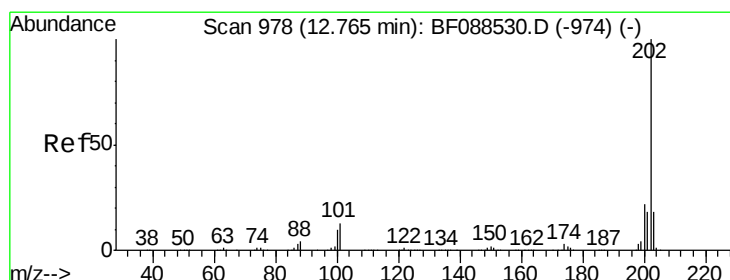
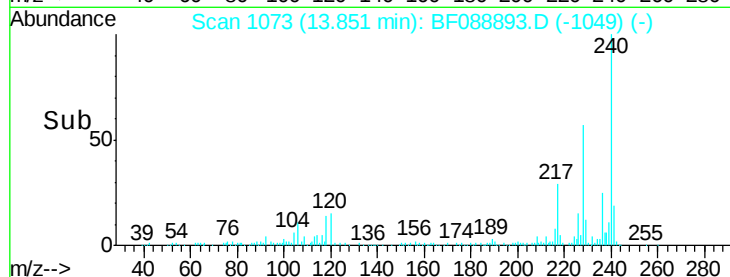
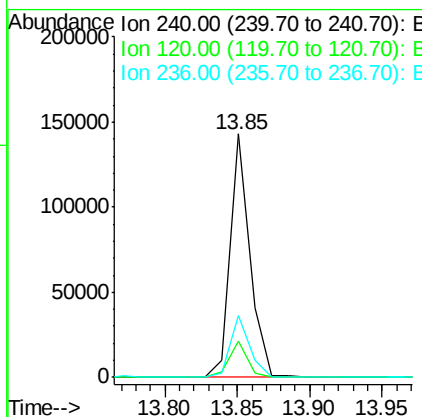
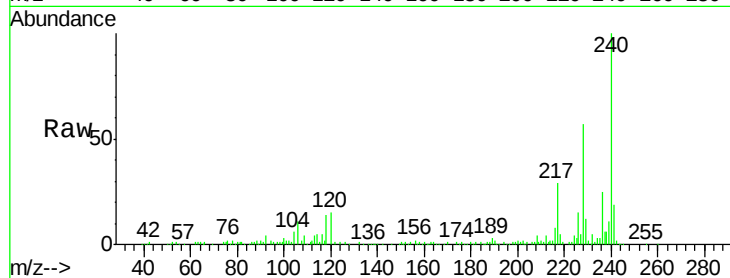
SS-9DL

Tot Ion	Ratio	Lower	Upper
240	100		
120	14.9	6.8	10.2
236	25.2	20.2	30.2

Manual Integrations

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#77

Pyrene

Concen: 40.09 ng

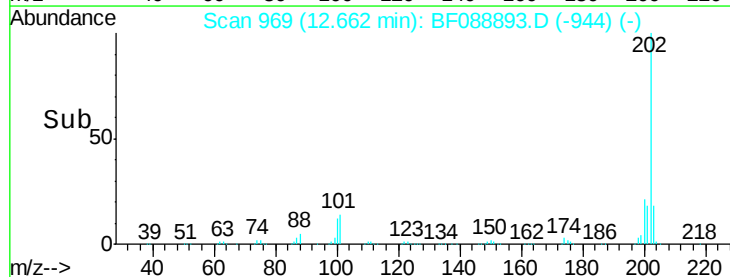
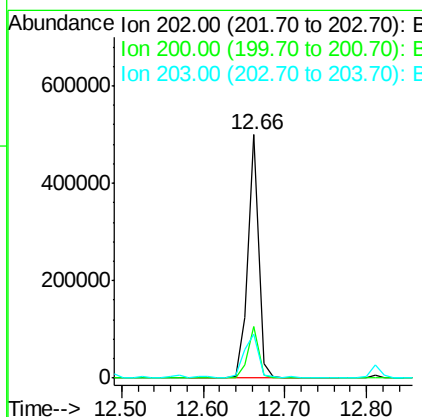
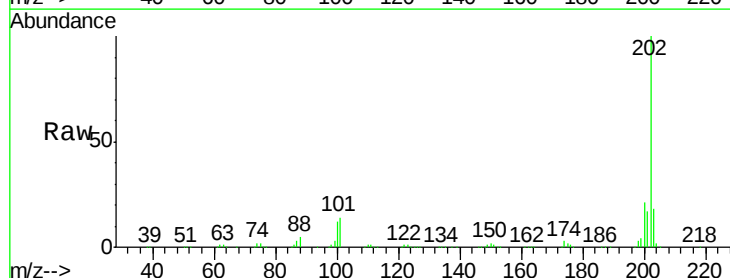
RT: 12.66 min Scan# 969

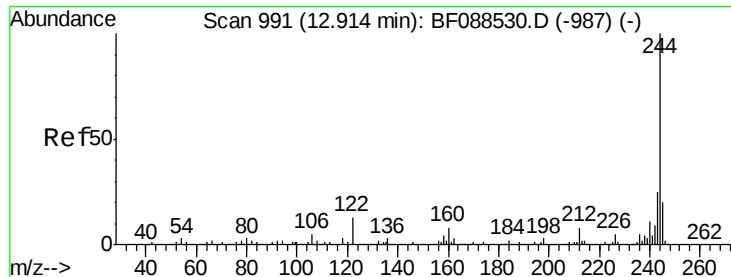
Delta R.T. -0.01 min

Lab File: BF088893.D

Acq: 10 Jul 2016 2:22

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.1	17.4	26.2
203	18.1	14.5	21.7





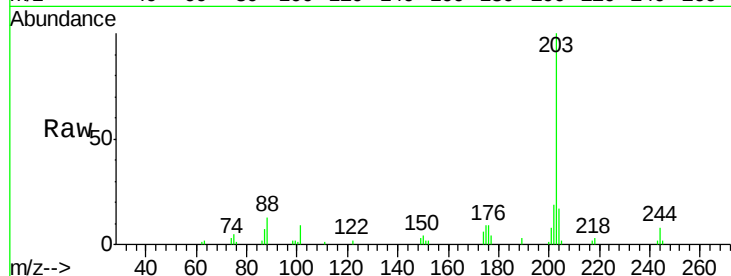
#78
 Terphenyl-d14
 Concen: 0.34 ng
 RT: 12.81 min Scan# 982
 Delta R.T. -0.01 min
 Lab File: BF088893.D
 Acq: 10 Jul 2016 2:22

Instrument :
 BNA_F
 ClientSampleID :
 SS-9DL

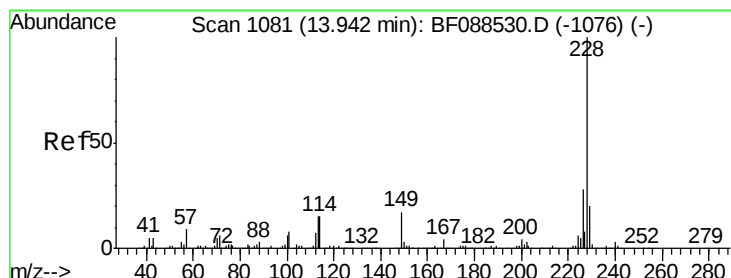
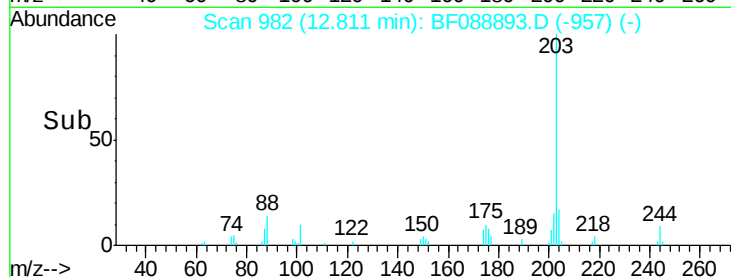
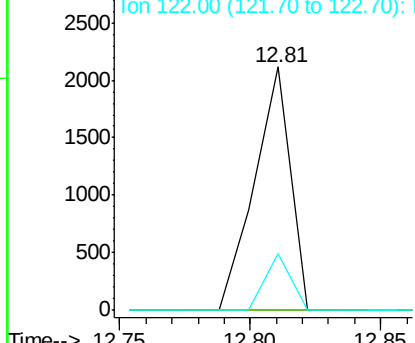
Tot Ion	Ratio	Lower	Upper
244	100		
212	0.0	6.0	9.0#
122	23.3	11.2	16.8#

Manual Integrations

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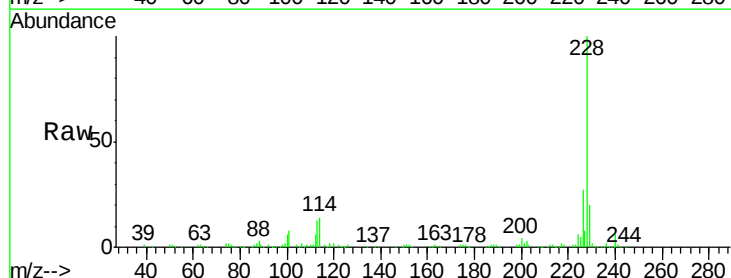


Abundance Ion 244.00 (243.70 to 244.70): E
 Ion 212.00 (211.70 to 212.70): E
 Ion 122.00 (121.70 to 122.70): E

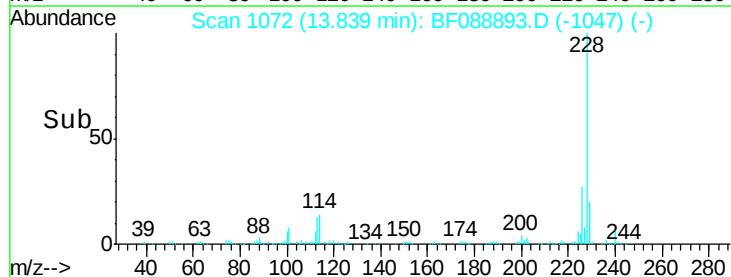
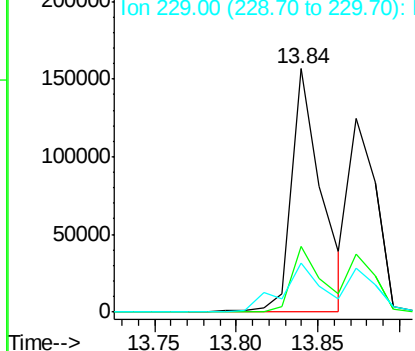


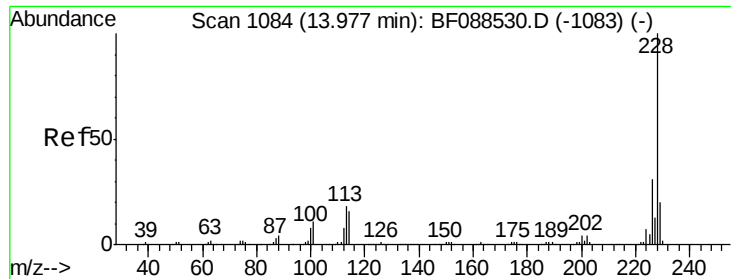
#80
 Benzo(a)anthracene
 Concen: 23.19 ng
 RT: 13.84 min Scan# 1072
 Delta R.T. -0.01 min
 Lab File: BF088893.D
 Acq: 10 Jul 2016 2:22

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.2	22.3	33.5
229	20.4	16.0	24.0



Abundance Ion 228.00 (227.70 to 228.70): E
 Ion 226.00 (225.70 to 226.70): E
 Ion 229.00 (228.70 to 229.70): E





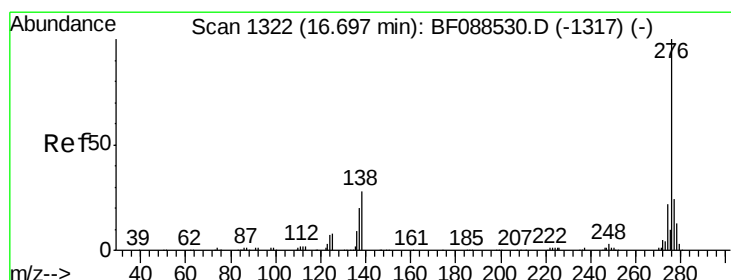
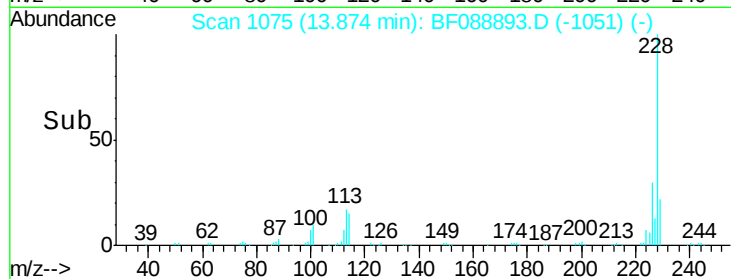
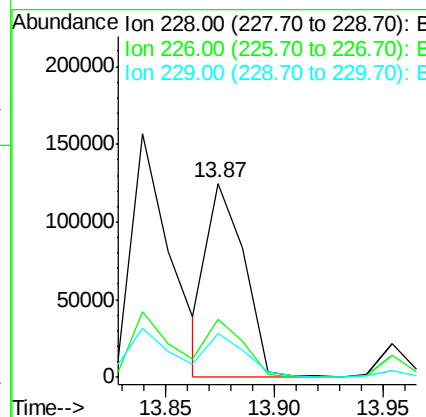
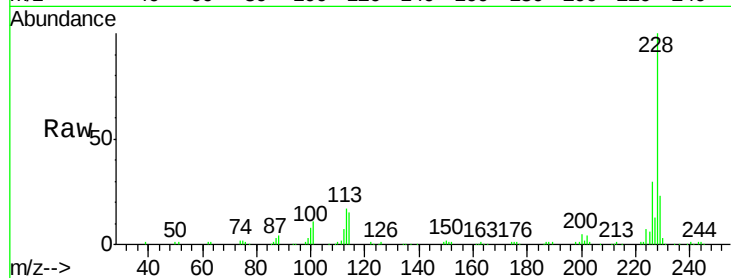
#82
Chrysene
Concen: 17.09 ng
RT: 13.87 min Scan# 1075
Delta R.T. -0.02 min
Lab File: BF088893.D
Acq: 10 Jul 2016 2:22

Instrument :
BNA_F
ClientSampleId :
SS-9DL

Tot Ion:	228	Resp:	146688
Ion Ratio	Lower	Upper	
228	100		
226	30.0	25.4	38.2
229	22.6	16.3	24.5

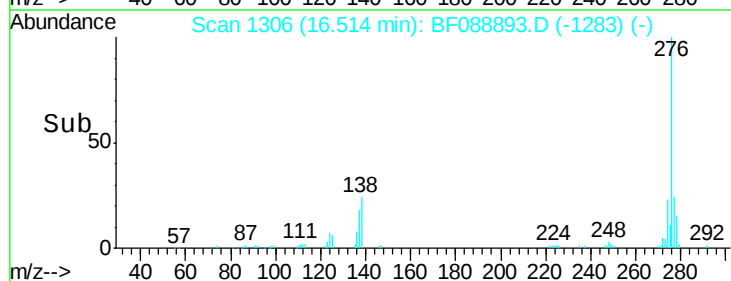
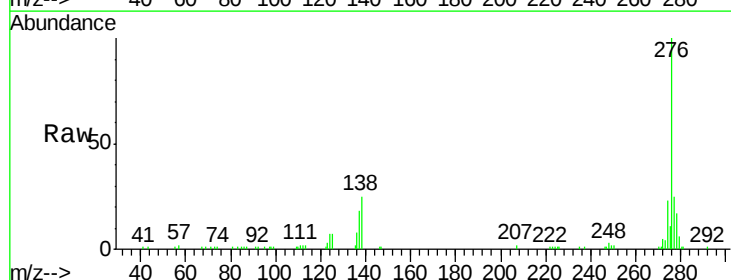
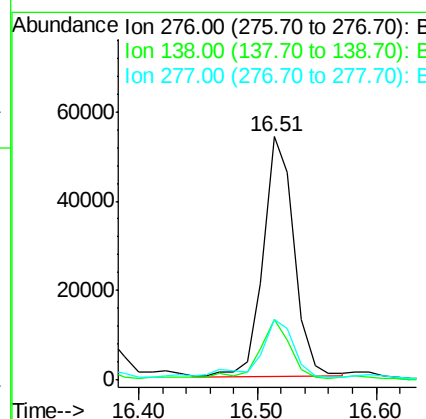
Manual Integrations

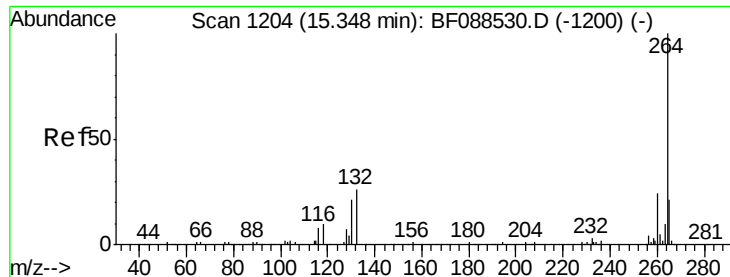
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#85
Indeno(1,2,3-cd)pyrene
Concen: 14.67 ng
RT: 16.51 min Scan# 1306
Delta R.T. -0.03 min
Lab File: BF088893.D
Acq: 10 Jul 2016 2:22

Tgt Ion:	276	Resp:	96871
Ion Ratio	Lower	Upper	
276	100		
138	25.9	0.0	0.0#
277	30.6	0.0	0.0#





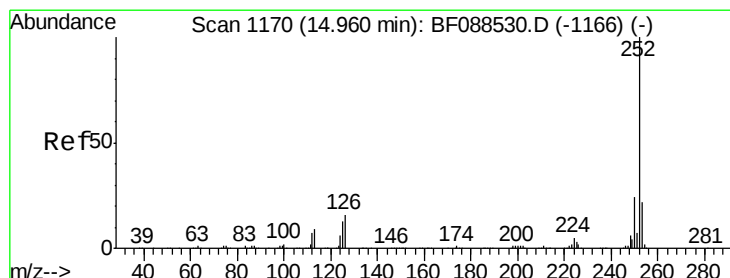
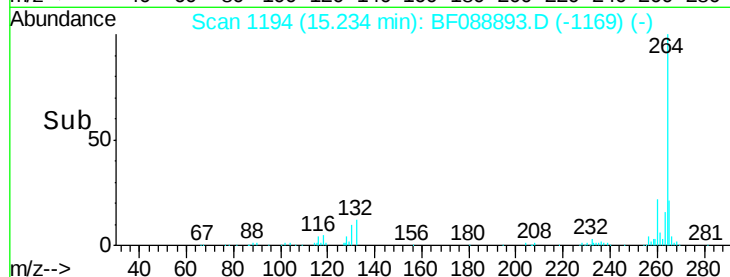
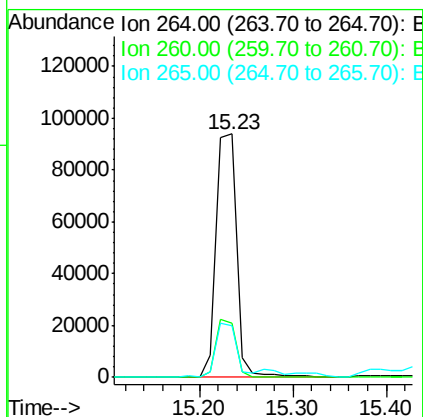
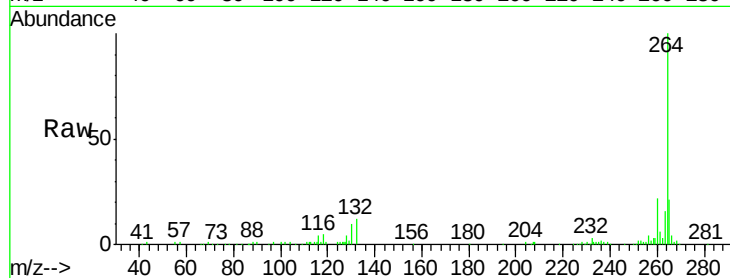
#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.23 min Scan# 1194
Delta R.T. -0.01 min
Lab File: BF088893.D
Acq: 10 Jul 2016 2:22

Instrument :
BNA_F
ClientSampleId :
SS-9DL

Tot Ion	Ratio	Lower	Upper
264	100		
260	22.3	19.2	28.8
265	21.4	16.9	25.3

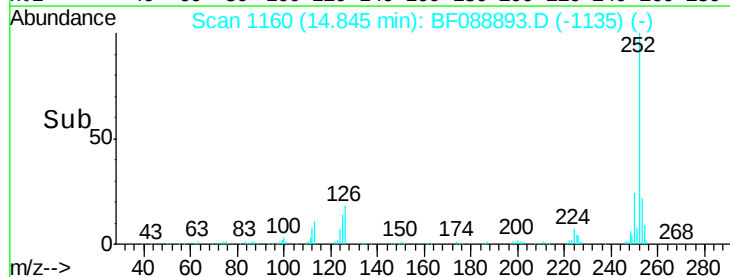
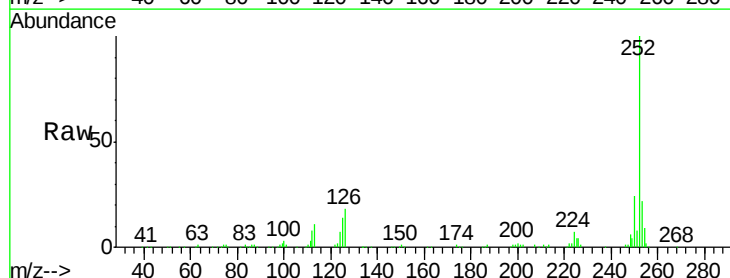
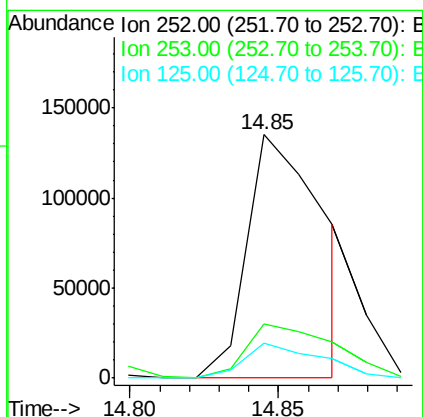
Manual Integrations

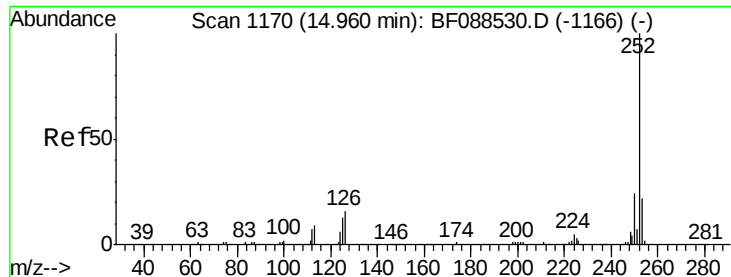
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#87
Benzo(b)fluoranthene
Concen: 26.80 ng m
RT: 14.85 min Scan# 1160
Delta R.T. -0.01 min
Lab File: BF088893.D
Acq: 10 Jul 2016 2:22

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.4	26.2
125	14.2	7.1	10.7#





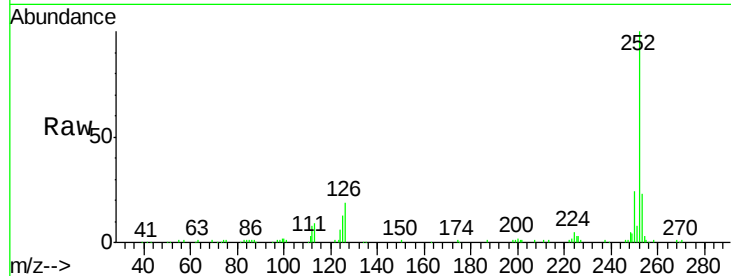
#88
Benzo(k)fluoranthene
Concen: 3.37 ng m
RT: 14.87 min Scan# 1162
Delta R.T. -0.02 min
Lab File: BF088893.D
Acq: 10 Jul 2016 2:22

Instrument :
BNA_F
ClientSampleId :
SS-9DL

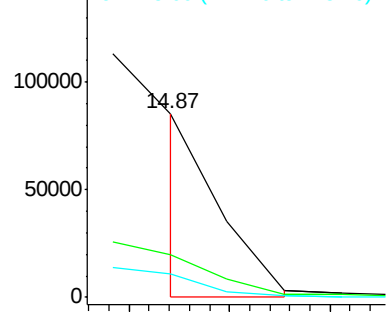
Tot Ion	Ratio	Lower	Upper
252	100		
253	23.5	18.0	27.0
125	12.7	11.2	16.8

Manual Integrations

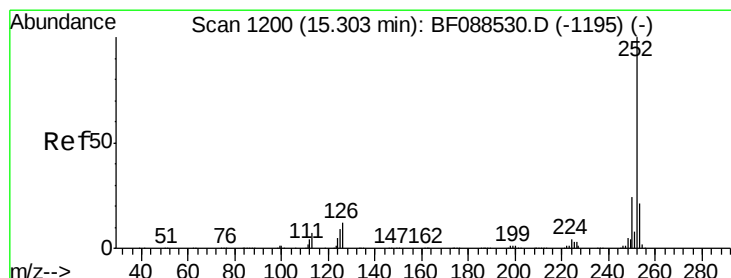
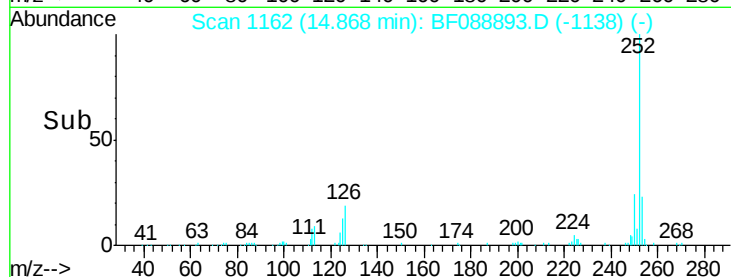
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Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



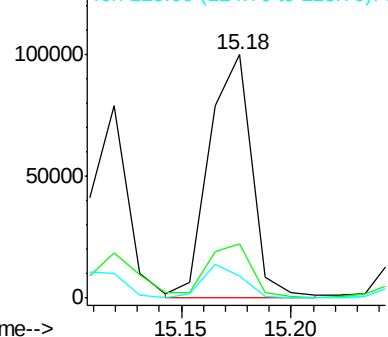
Time-->



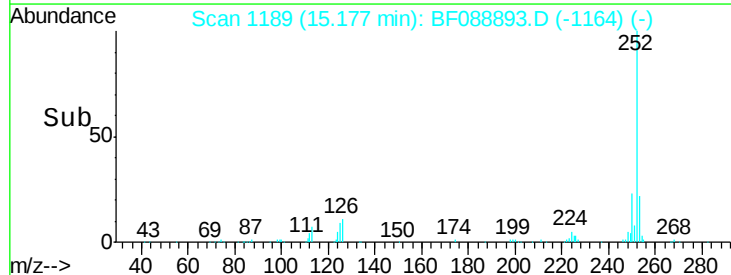
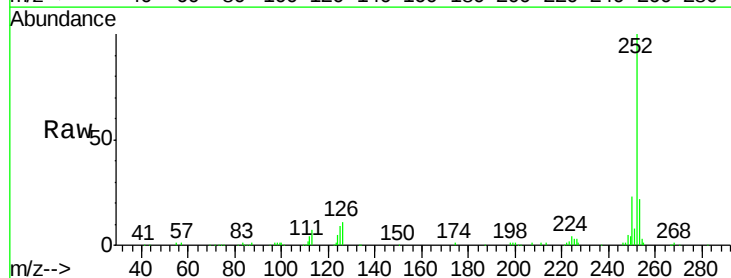
#89
Benzo(a)pyrene
Concen: 17.79 ng m
RT: 15.18 min Scan# 1189
Delta R.T. -0.01 min
Lab File: BF088893.D
Acq: 10 Jul 2016 2:22

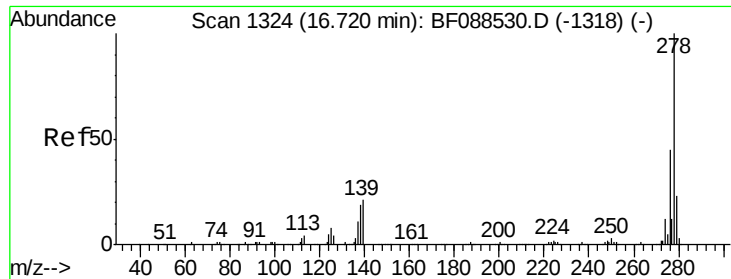
Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.9	26.9
125	9.0	12.5	18.7#

Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



Time-->





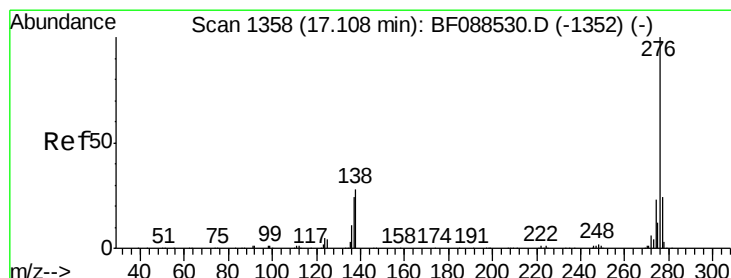
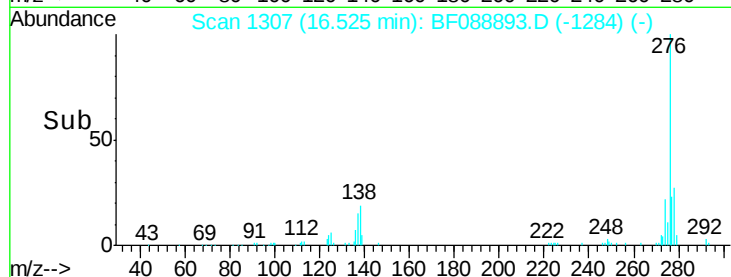
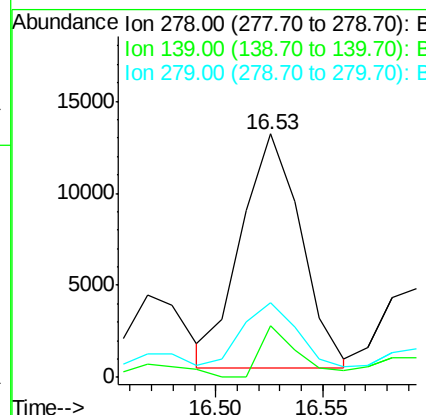
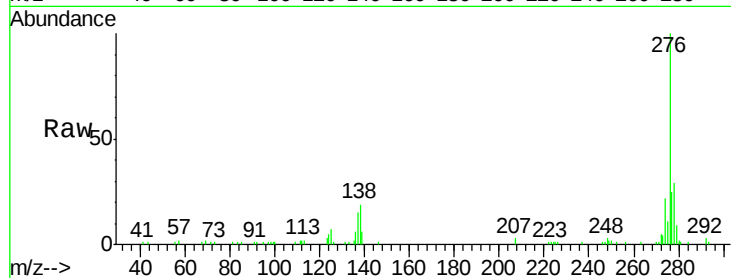
#90
Dibenzo(a,h)anthracene
Concen: 3.89 ng/mL
RT: 16.53 min Scan# 1307
Delta R.T. -0.03 min
Lab File: BF088893.D
Acq: 10 Jul 2016 2:22

Instrument :
BNA_F
ClientSampleId :
SS-9DL

Tot Ion	Ratio	Lower	Upper
278	100		
139	21.3	15.7	23.5
279	30.6	19.4	29.2

Manual Integrations

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#91
Benzo(g,h,i)perylene
Concen: 13.93 ng/mL
RT: 16.90 min Scan# 1340
Delta R.T. -0.03 min
Lab File: BF088893.D
Acq: 10 Jul 2016 2:22

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.5	18.9	28.3
138	23.8	21.4	32.2

