

Data Path : Z:\HPCHEM1\BNA F\DATA\BF032417\
 Data File : BF093906.D
 Acq On : 24 Mar 2017 14:13
 Operator : SJ/MA
 Sample : I2367-12
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 E2-R13-WSW

Manual Integrations
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Quant Time: Mar 25 00:20:27 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032217.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Mar 23 02:02:22 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.97	152	193143	20.00	ng	-0.02
21) Naphthalene-d8	7.47	136	736747	20.00	ng	-0.02
38) Acenaphthene-d10	9.62	164	303602	20.00	ng	-0.02
63) Phenanthrene-d10	11.44	188	449719	20.00	ng	-0.02
75) Chrysene-d12	14.71	240	306485	20.00	ng	0.00
86) Perylene-d12	16.35	264	257543	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	4.50	112	1134338	99.20	ng	0.00
7) Phenol-d6	5.57	99	1455129	102.86	ng	0.00
23) Nitrobenzene-d5	6.62	82	954701	73.95	ng	-0.02
41) 2,4,6-Tribromophenol	10.59	330	226305	94.33	ng	-0.02
44) 2-Fluorobiphenyl	8.80	172	1444488	72.57	ng	-0.02
78) Terphenyl-d14	13.42	244	794405	58.10	ng	-0.02
Target Compounds						Qvalue
31) Naphthalene	7.50	128	205953	5.81	ng	98
37) 2-Methylnaphthalene	8.34	142	110399	4.67	ng	99
48) Acenaphthylene	9.44	152	527487	16.56	ng	99
49) Dimethylphthalate	9.29	163	182584	8.46	ng	98
51) Acenaphthene	9.65	154	37589	2.02	ng	97
54) Dibenzofuran	9.86	168	115894	4.58	ng	98
57) Fluorene	10.29	166	91507	4.36	ng	99
70) Phenanthrene	11.47	178	1274249	50.94	ng	99
71) Anthracene	11.53	178	479447	18.61	ng	98
72) Carbazole	11.73	167	168230	6.37	ng	96
74) Fluoranthene	12.95	202	2234267	87.22	ng	99
77) Pvrene	13.23	202	1857030	83.49	ng	100
80) Benzo(a)anthracene	14.70	228	1101243m	61.62	ng	
82) Chrysene	14.74	228	1156316m	69.72	ng	
83) Bis(2-ethylhexyl)phthalate	14.75	149	34011	2.63	ng	# 97
85) Indeno(1,2,3-cd)pyrene	17.75	276	529457	36.86	ng	96
87) Benzo(b)fluoranthene	15.94	252	1492745m	94.56	ng	
88) Benzo(k)fluoranthene	15.96	252	422166m	27.33	ng	
89) Benzo(a)pvrene	16.29	252	766885	52.75	ng	98
90) Dibenzo(a,h)anthracene	17.76	278	141511	11.49	ng	93
91) Benzo(g,h,i)perylene	18.16	276	452188	36.44	ng	99

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

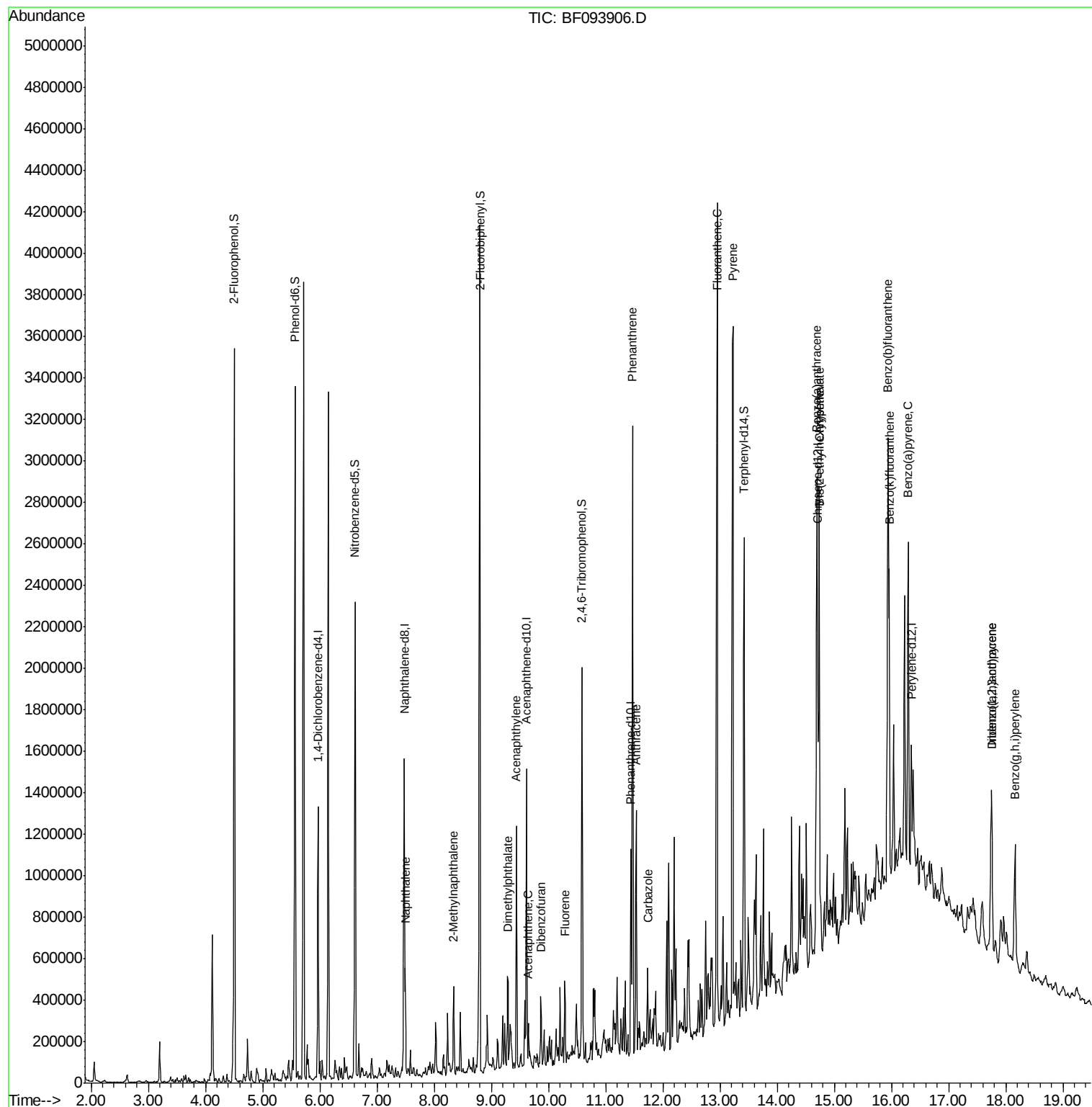
Data Path : Z:\HPCHEM1\BNA F\DATA\BF032417\
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ALS Vial : 9 Sample Multiplier: 1

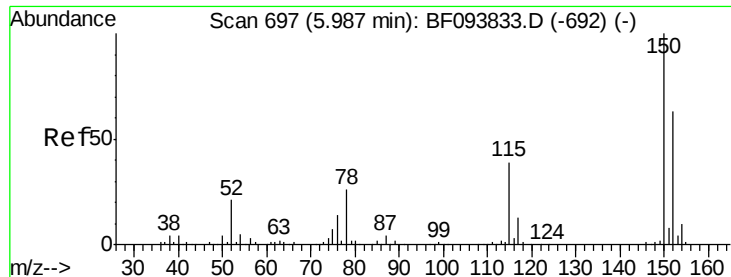
Instrument :
BNA_F
ClientSampled :
E2-R13-WSW

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Quant Time: Mar 25 00:20:27 2017
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#1

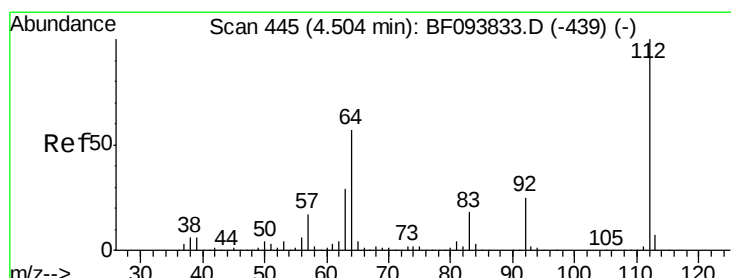
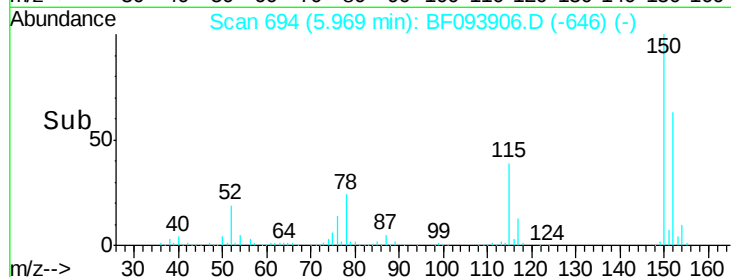
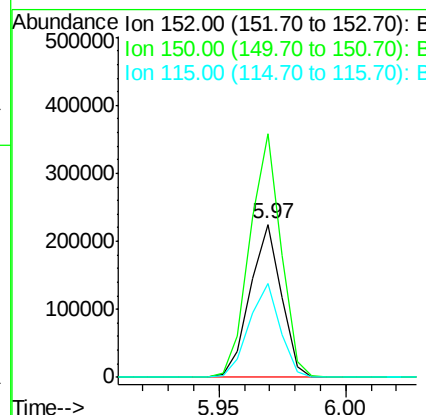
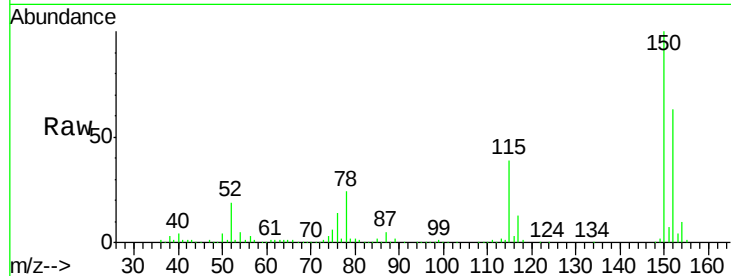
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 5.97 min Scan# 694
Delta R.T. -0.02 min
Lab File: BF093906.D
Acq: 24 Mar 2017 14:13

Instrument :
BNA_F
ClientSampleId :
E2-R13-WSW

Tot Ion	Ratio	Lower	Upper
152	100		
150	159.4	126.2	189.2
115	61.4	52.2	78.2

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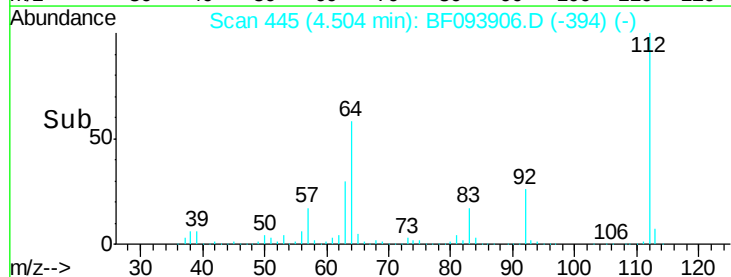
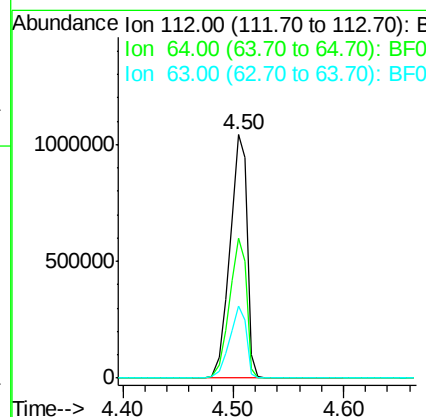
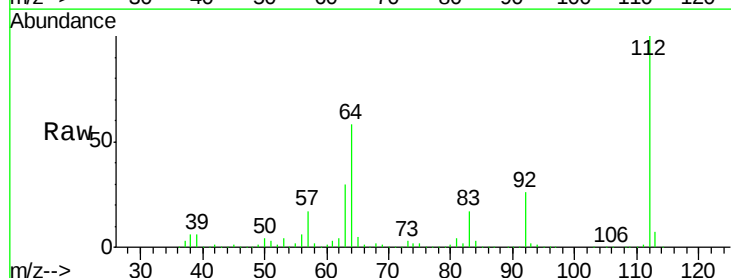
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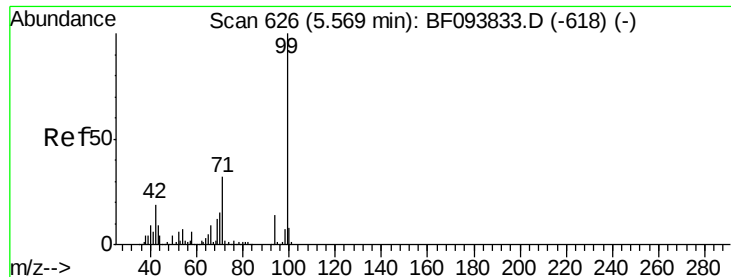


#5

2-Fluorophenol
Concen: 99.20 ng
RT: 4.50 min Scan# 445
Delta R.T. 0.00 min
Lab File: BF093906.D
Acq: 24 Mar 2017 14:13

Tgt Ion	Ratio	Lower	Upper
112	100		
64	57.6	46.0	69.0
63	29.7	23.4	35.0





#7

Phenol-d6

Concen: 102.86 ng

RT: 5.57 min Scan# 626

Delta R.T. 0.00 min

Lab File: BF093906.D

Acq: 24 Mar 2017 14:13

Instrument :

BNA_F

ClientSampleId :

E2-R13-WSW

Tot Ion: 99 Resp: 1455129

Ion Ratio Lower Upper

99 100

42 18.2 13.5 20.3

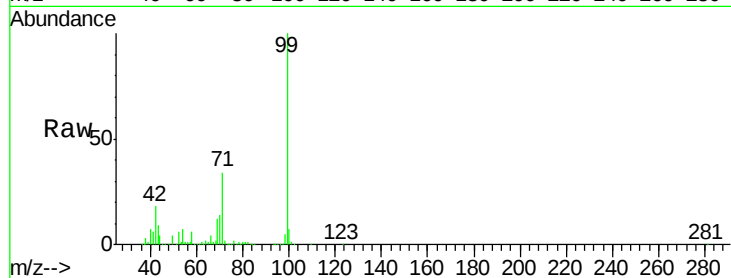
71 33.7 24.5 36.7

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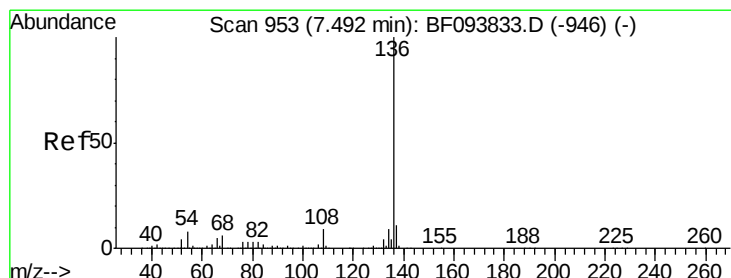
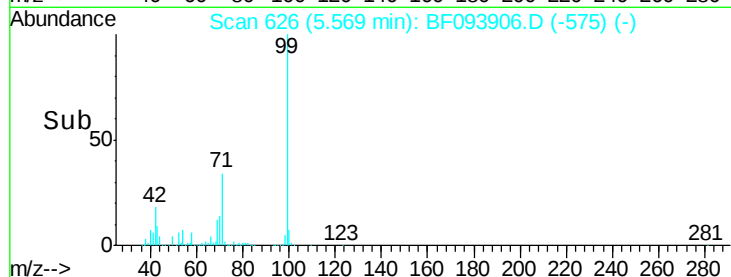
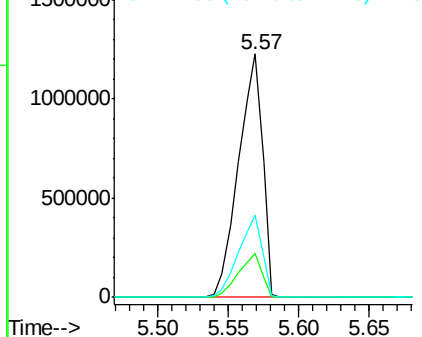
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Abundance Ion 99.00 (98.70 to 99.70): BF0

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: 7.47 min Scan# 950

Delta R.T. -0.02 min

Lab File: BF093906.D

Acq: 24 Mar 2017 14:13

Tgt Ion: 136 Resp: 736747

Ion Ratio Lower Upper

136 100

137 10.9 8.5 12.7

54 7.3 4.9 7.3#

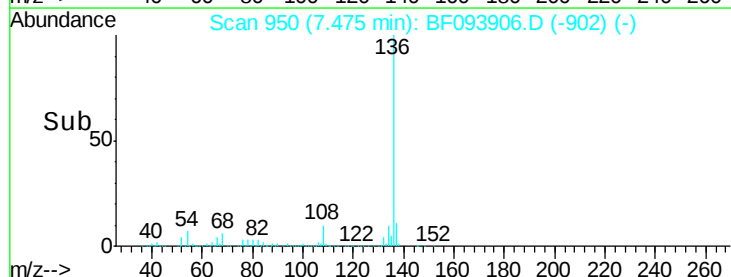
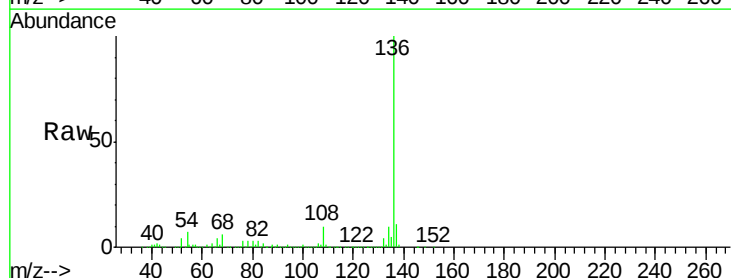
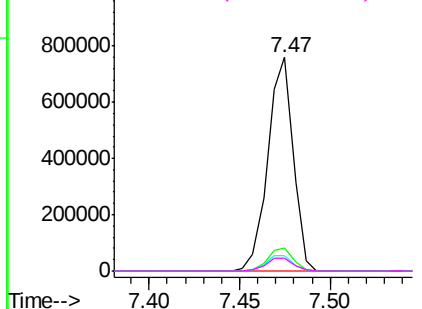
68 6.0 4.1 6.1

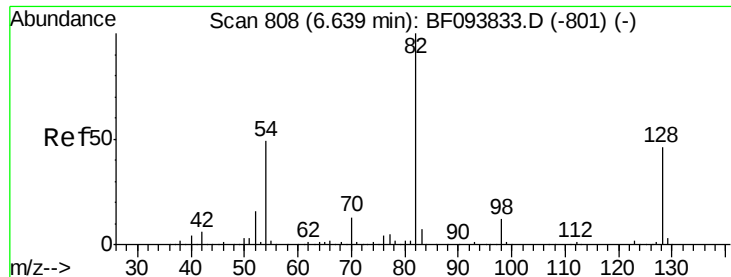
Abundance Ion 136.00 (135.70 to 136.70): E

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





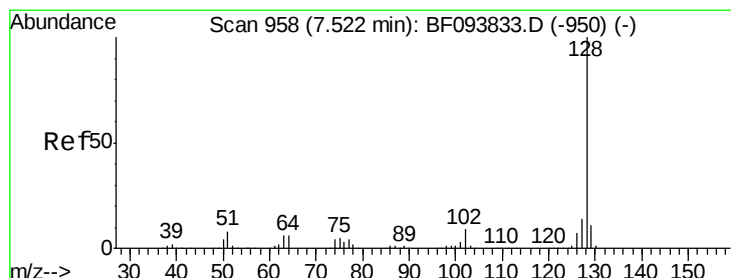
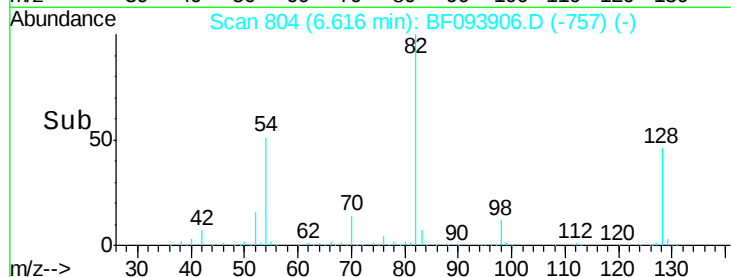
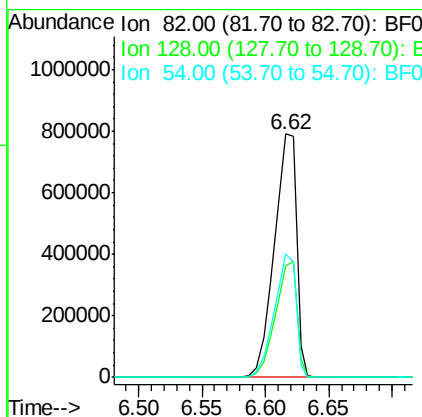
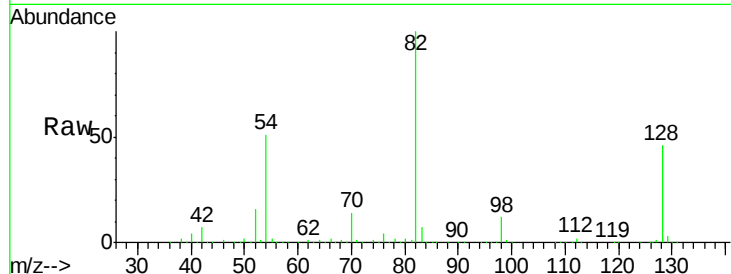
#23
 Nitrobenzene-d5
 Concen: 73.95 ng
 RT: 6.62 min Scan# 804
 Delta R.T. -0.02 min
 Lab File: BF093906.D
 Acq: 24 Mar 2017 14:13

Instrument :
 BNA_F
 ClientSampleId :
 E2-R13-WSW

Tot Ion	Ratio	Lower	Upper
82	100		
128	45.8	34.0	51.0
54	50.9	42.2	63.2

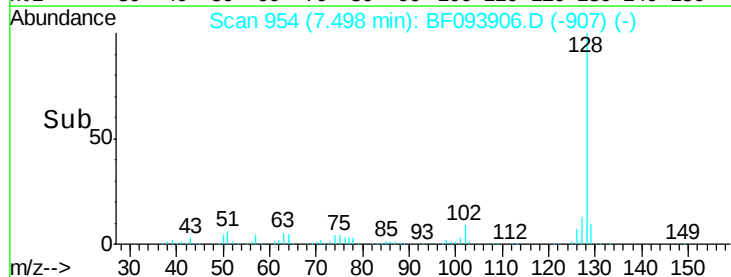
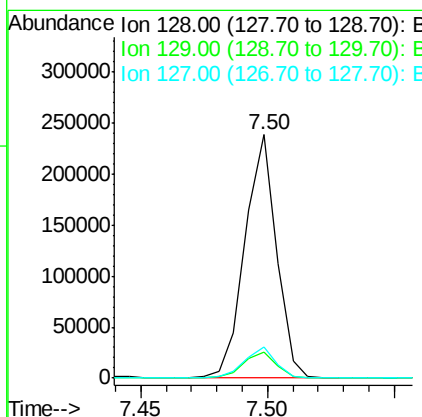
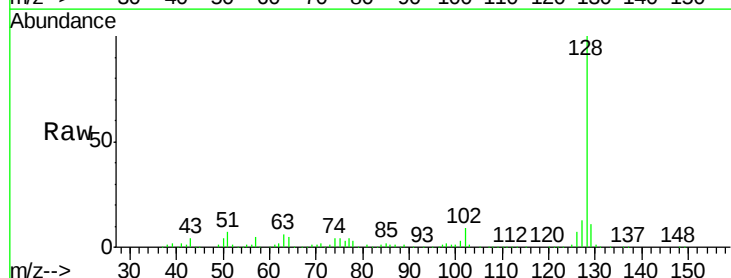
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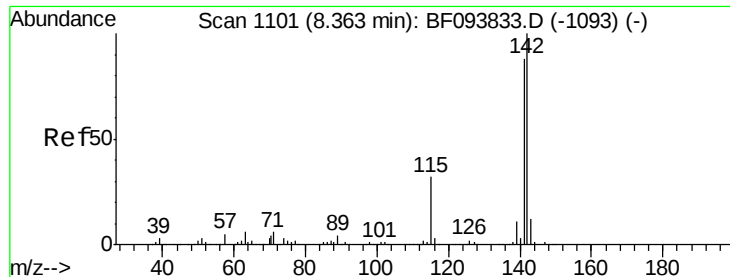
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#31
 Naphthalene
 Concen: 5.81 ng
 RT: 7.50 min Scan# 954
 Delta R.T. -0.02 min
 Lab File: BF093906.D
 Acq: 24 Mar 2017 14:13

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.5	9.0	13.6
127	12.7	10.8	16.2





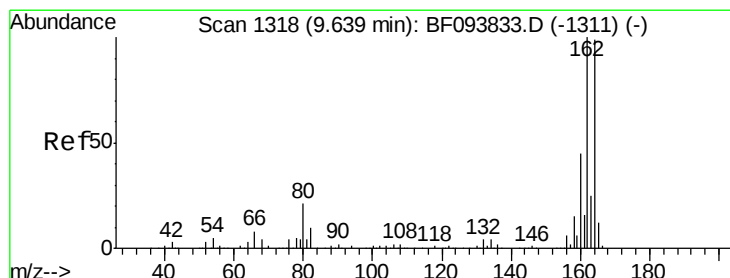
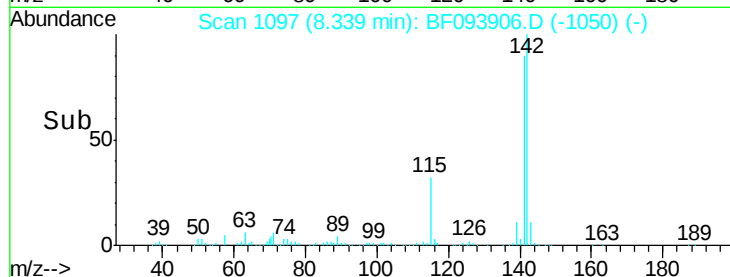
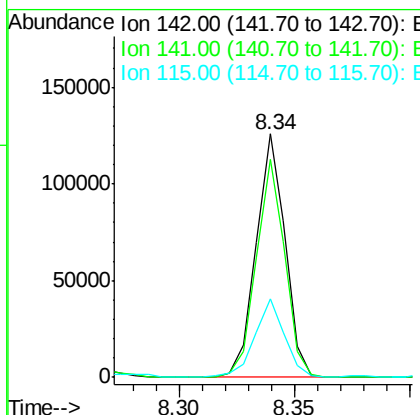
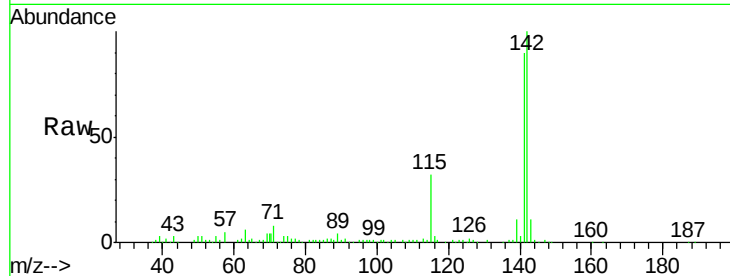
#37
2-Methylnaphthalene
Concen: 4.67 ng
RT: 8.34 min Scan# 1097
Delta R.T. -0.02 min
Lab File: BF093906.D
Acq: 24 Mar 2017 14:13

Instrument :
BNA_F
ClientSampleId :
E2-R13-WSW

Tot Ion	Ratio	Resp	Lower	Upper
142	100	110399		
141	89.7	71.3	106.9	
115	32.1	27.1	40.7	

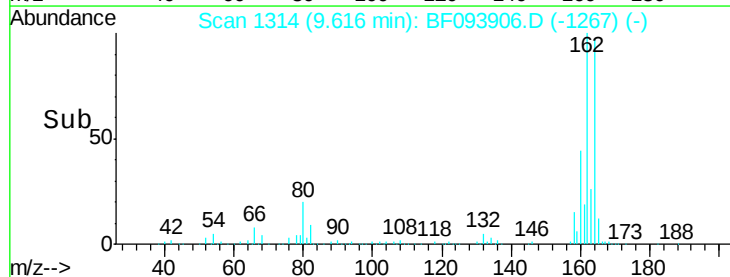
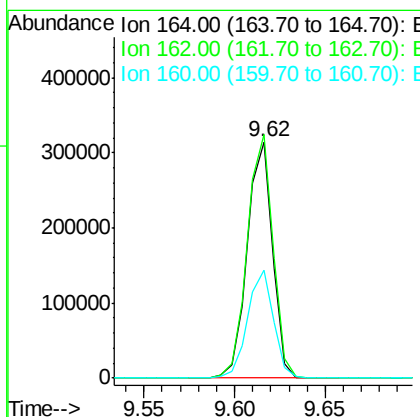
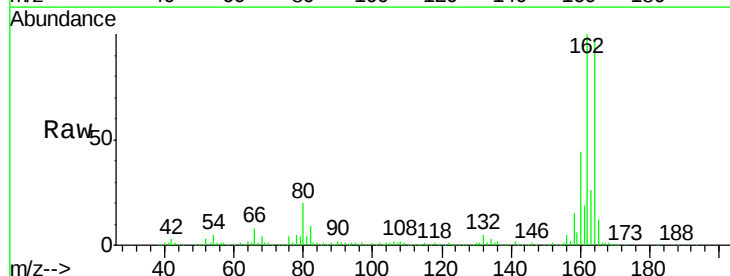
Manual Integrations
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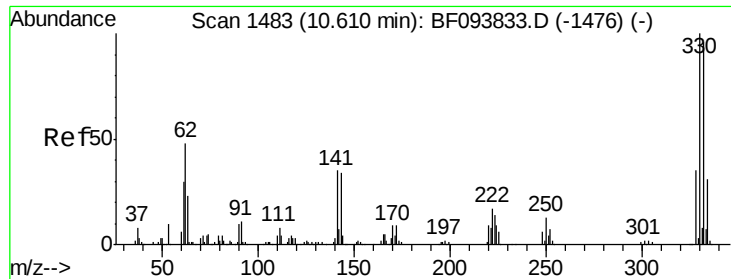
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.62 min Scan# 1314
Delta R.T. -0.02 min
Lab File: BF093906.D
Acq: 24 Mar 2017 14:13

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	303602		
162	103.0	82.6	123.8	
160	45.8	36.2	54.2	





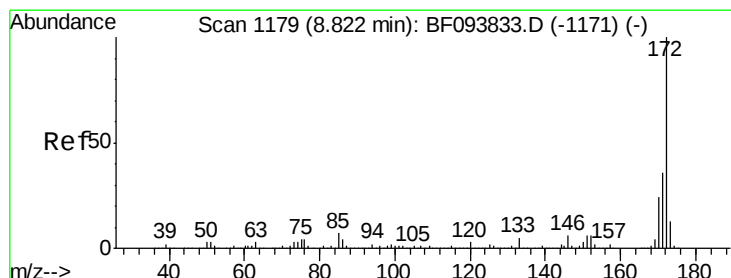
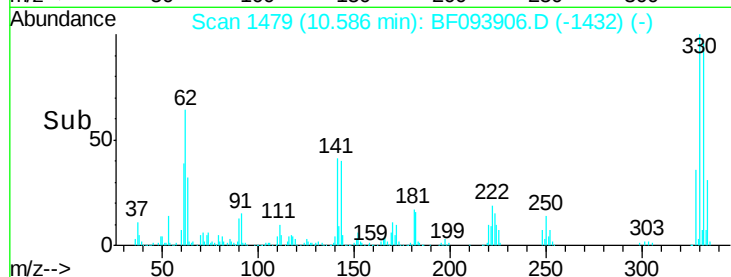
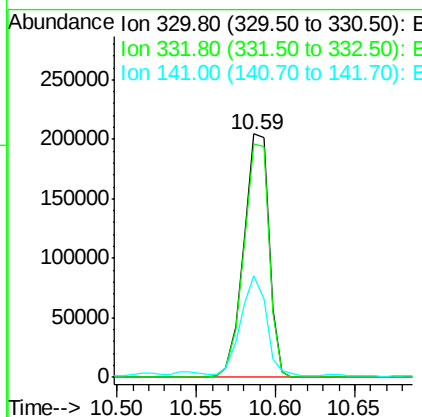
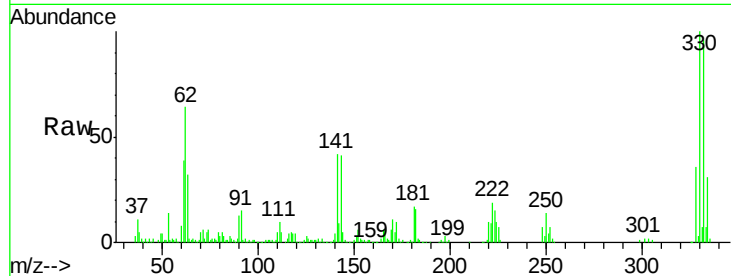
#41
 2,4,6-Tribromophenol
 Concen: 94.33 ng
 RT: 10.59 min Scan# 1479
 Delta R.T. -0.02 min
 Lab File: BF093906.D
 Acq: 24 Mar 2017 14:13

Instrument :
 BNA_F
 ClientSampleId :
 E2-R13-WSW

Tot Ion	Ratio	Resp	Lower	Upper
330	100	226305		
332	95.9	76.6	115.0	
141	41.8	31.4	47.2	

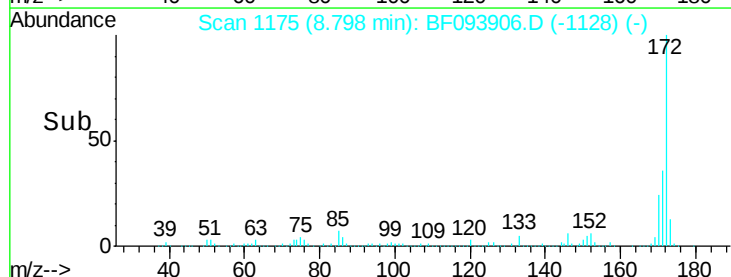
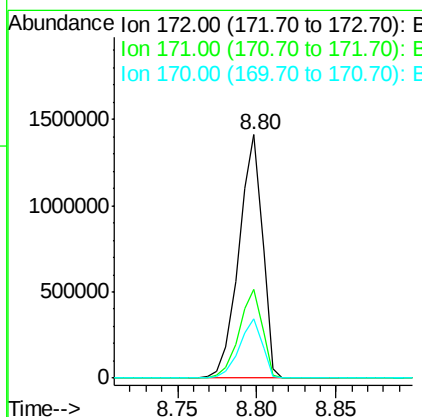
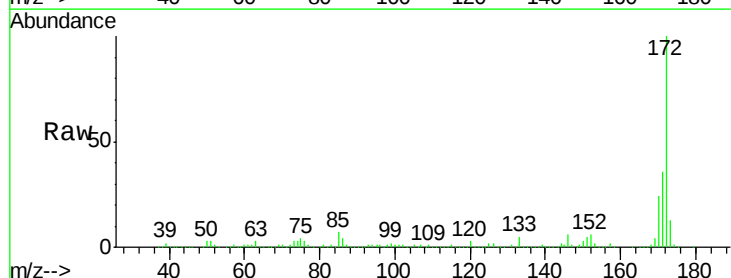
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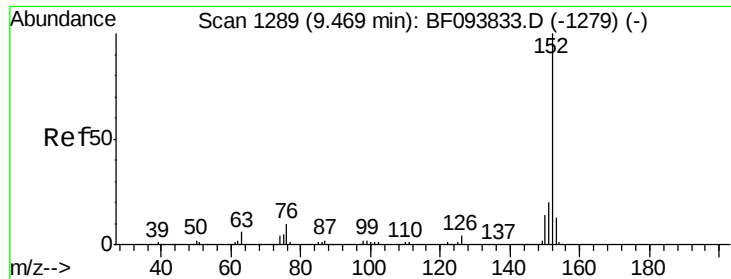
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#44
 2-Fluorobiphenyl
 Concen: 72.57 ng
 RT: 8.80 min Scan# 1175
 Delta R.T. -0.02 min
 Lab File: BF093906.D
 Acq: 24 Mar 2017 14:13

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	1444488		
171	36.2	29.6	44.4	
170	24.5	19.8	29.8	





#48

Acenaphthylene

Concen: 16.56 ng

RT: 9.44 min Scan# 1284

Delta R.T. -0.03 min

Lab File: BF093906.D

Acq: 24 Mar 2017 14:13

Instrument :

BNA_F

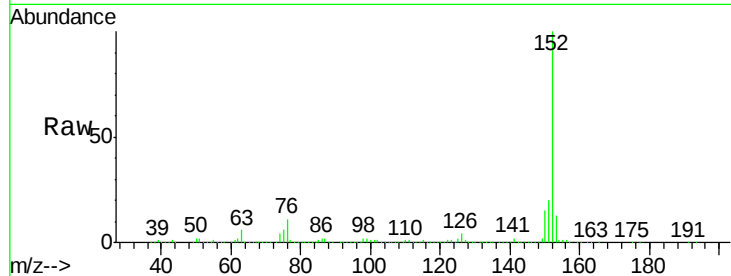
ClientSampleId :

E2-R13-WSW

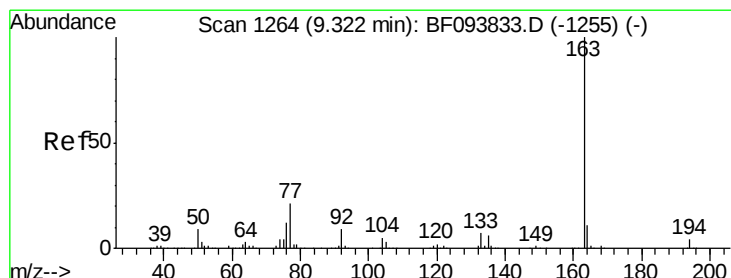
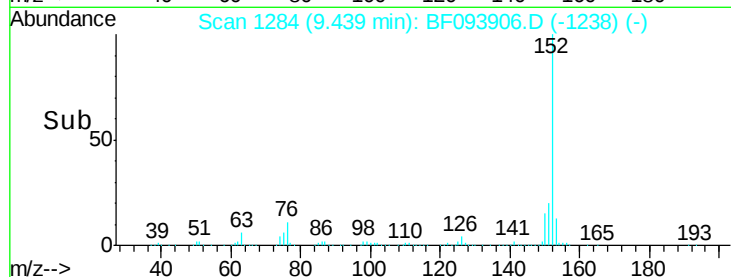
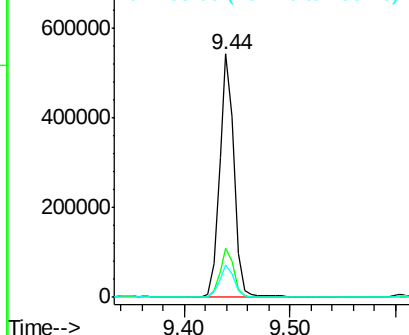
Tot Ion:	152	Resp:	527487
Ion Ratio	Lower	Upper	
152	100		
151	20.2	16.8	25.2
153	13.4	10.8	16.2

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Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E



#49

Dimethylphthalate

Concen: 8.46 ng

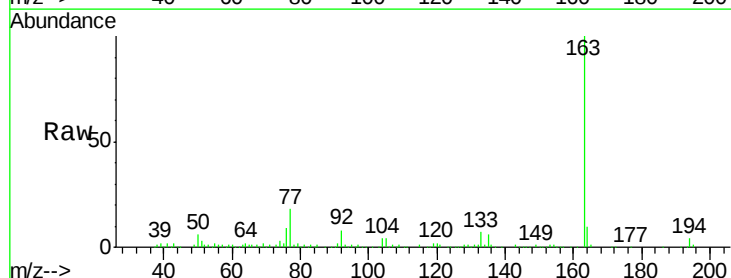
RT: 9.29 min Scan# 1259

Delta R.T. -0.03 min

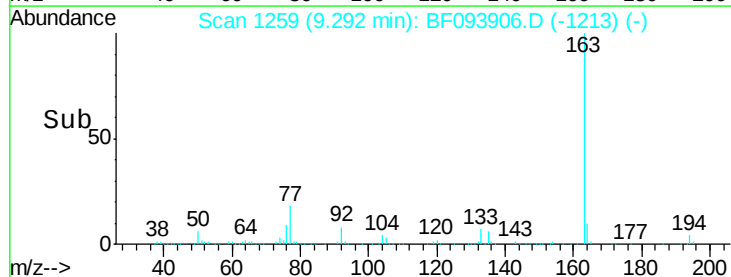
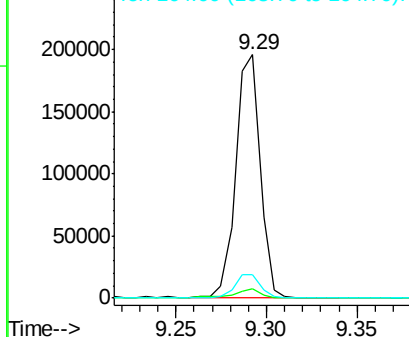
Lab File: BF093906.D

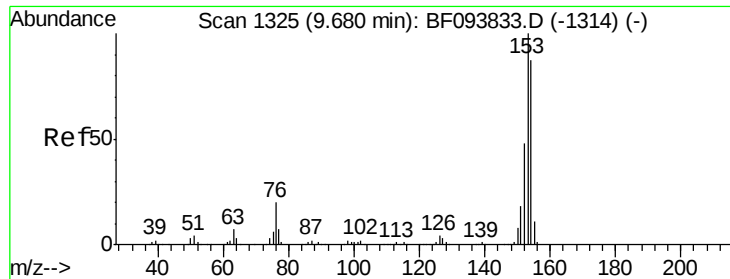
Acq: 24 Mar 2017 14:13

Tgt Ion:	163	Resp:	182584
Ion Ratio	Lower	Upper	
163	100		
194	3.6	2.6	4.0
164	9.5	8.4	12.6



Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E





#51

Acenaphthene

Concen: 2.02 ng

RT: 9.65 min Scan# 1320

Delta R.T. -0.03 min

Lab File: BF093906.D

Acq: 24 Mar 2017 14:13

Instrument :

BNA_F

ClientSampleId :

E2-R13-WSW

Tot Ion:154 Resp: 37589

Ion Ratio Lower Upper

154 100

153 116.5 90.5 135.7

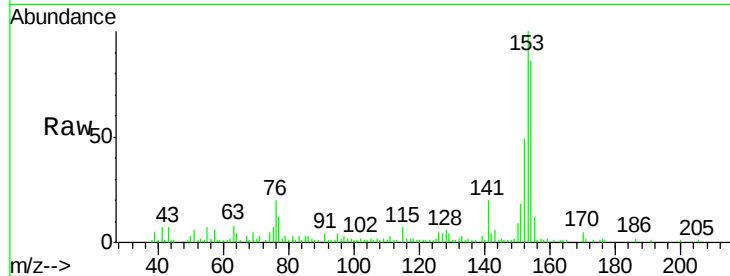
152 56.6 43.6 65.4

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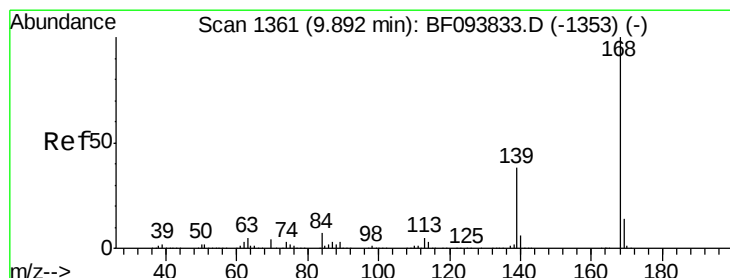
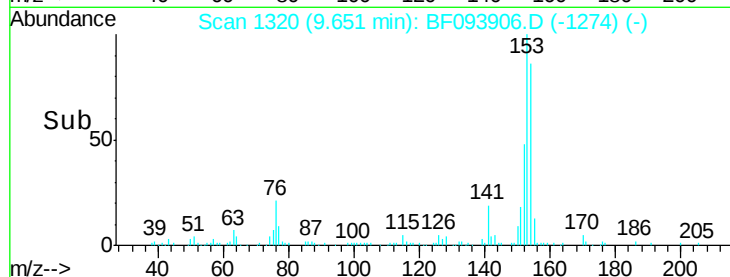
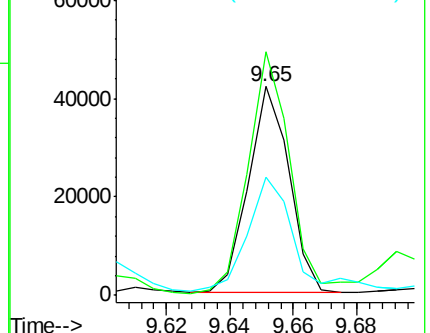
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Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#54

Dibenzofuran

Concen: 4.58 ng

RT: 9.86 min Scan# 1356

Delta R.T. -0.03 min

Lab File: BF093906.D

Acq: 24 Mar 2017 14:13

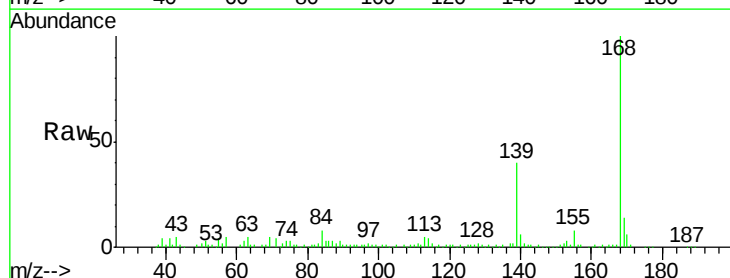
Tgt Ion:168 Resp: 115894

Ion Ratio Lower Upper

168 100

139 39.7 30.6 45.8

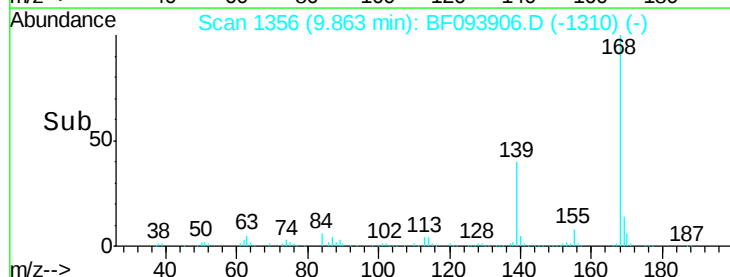
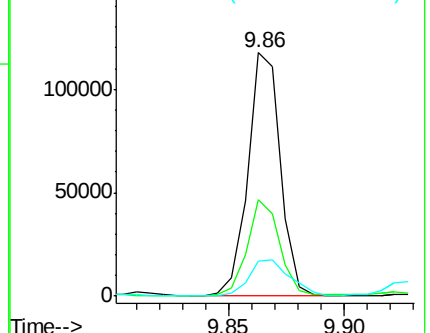
169 14.3 10.8 16.2

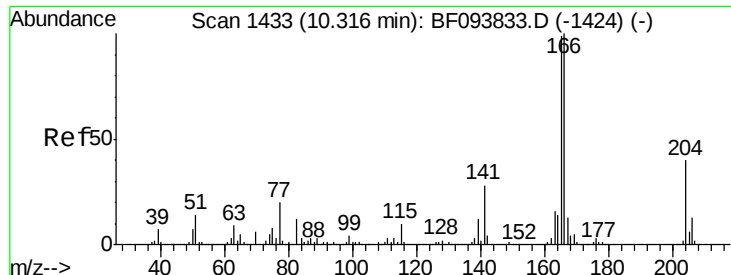


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E





#57

Fluorene

Concen: 4.36 ng

RT: 10.29 min Scan# 1428

Delta R.T. -0.03 min

Lab File: BF093906.D

Acq: 24 Mar 2017 14:13

Instrument :

BNA_F

ClientSampleId :

E2-R13-WSW

Tot Ion:166 Resp: 91507

Ion Ratio Lower Upper

166 100

165 98.1 78.8 118.2

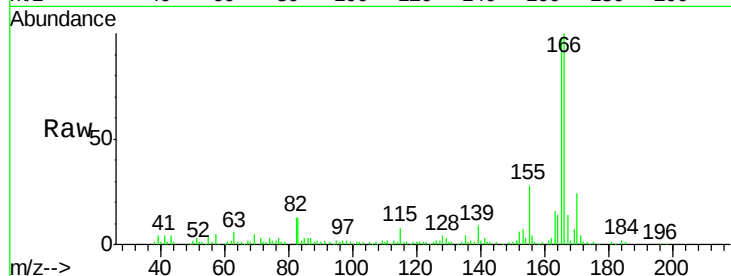
167 14.4 10.6 16.0

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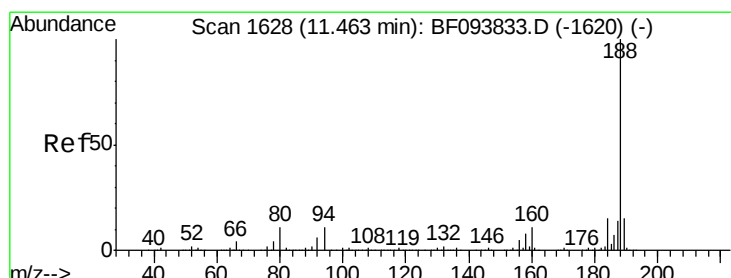
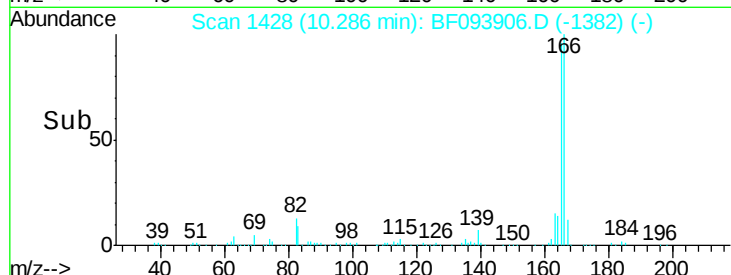
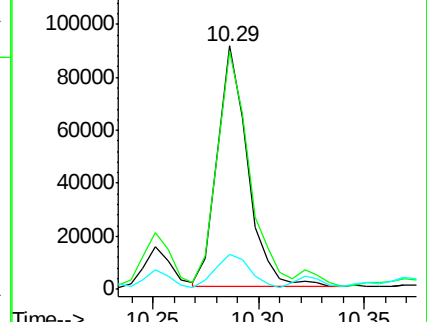
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Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.44 min Scan# 1624

Delta R.T. -0.02 min

Lab File: BF093906.D

Acq: 24 Mar 2017 14:13

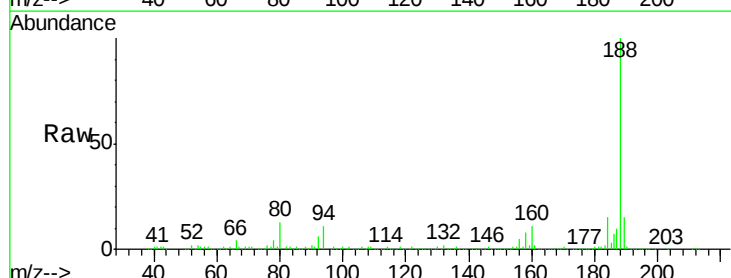
Tgt Ion:188 Resp: 449719

Ion Ratio Lower Upper

188 100

94 11.5 9.4 14.2

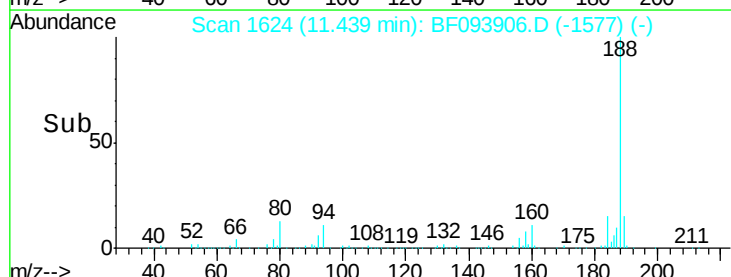
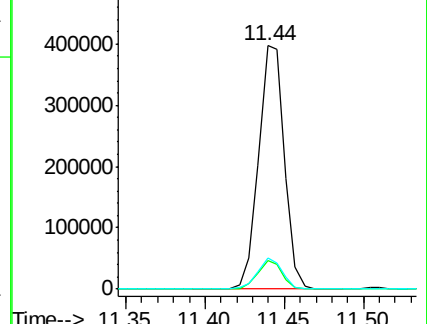
80 12.8 10.2 15.2

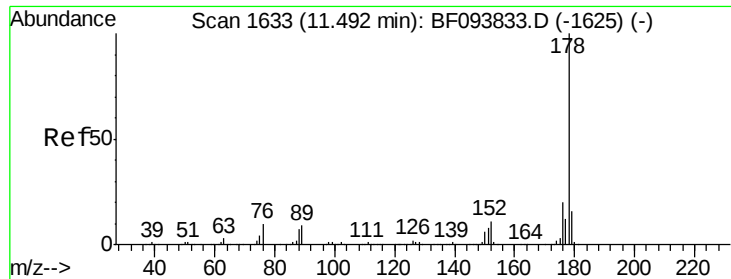


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0





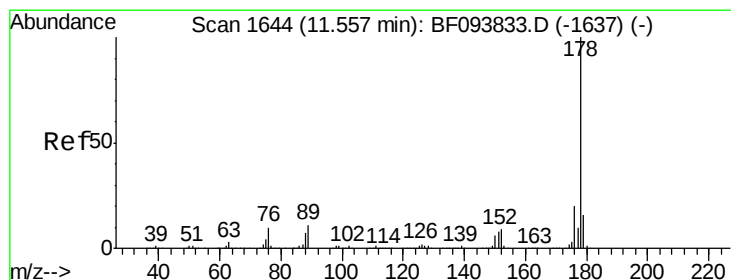
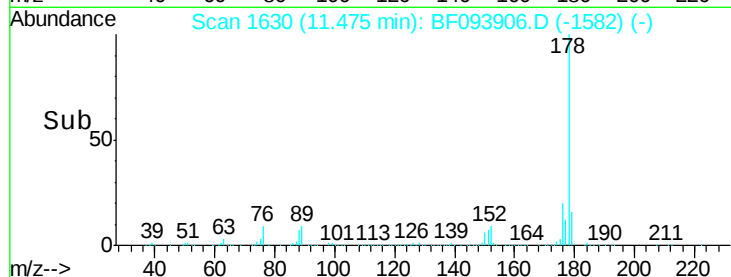
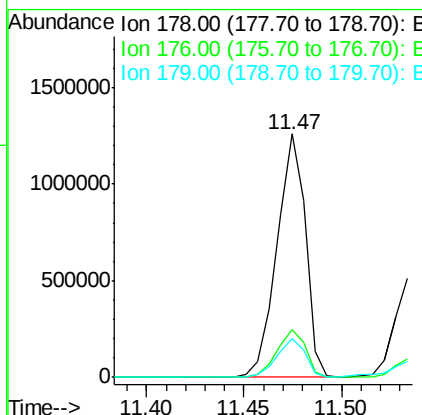
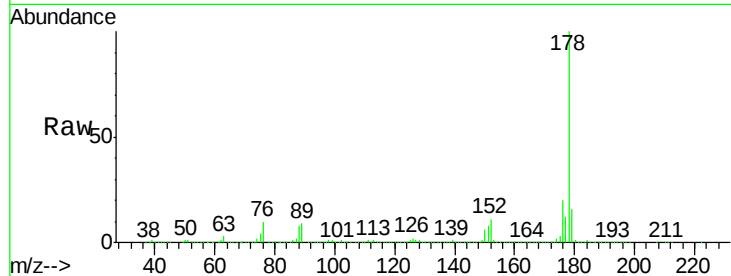
#70
Phenanthrene
Concen: 50.94 ng
RT: 11.47 min Scan# 1630
Delta R.T. -0.02 min
Lab File: BF093906.D
Acq: 24 Mar 2017 14:13

Instrument :
BNA_F
ClientSampleId :
E2-R13-WSW

Tot Ion:178 Resp: 1274249
Ion Ratio Lower Upper
178 100
176 19.8 16.2 24.4
179 15.9 12.6 19.0

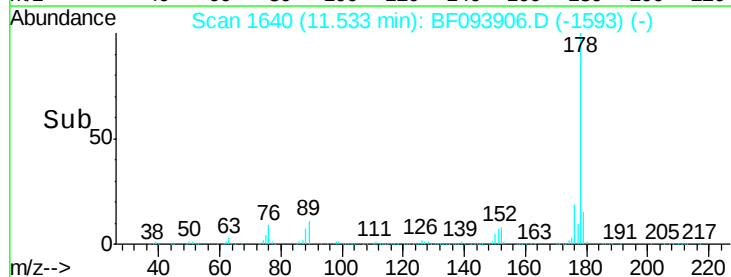
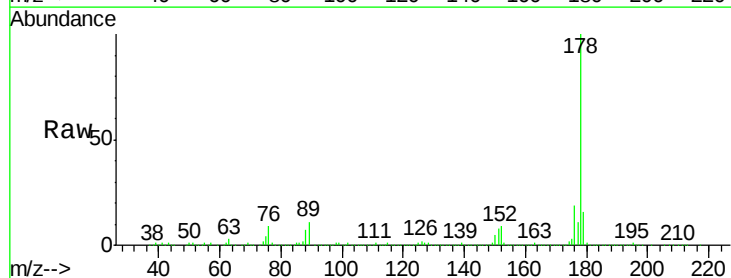
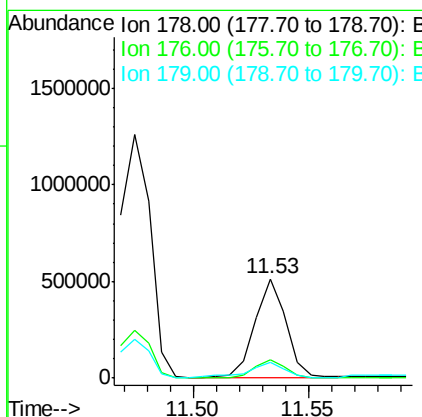
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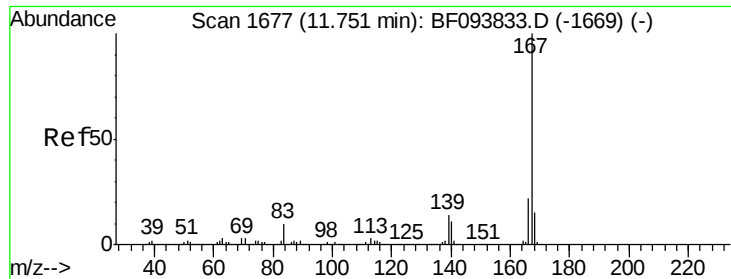
mohammad
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#71
Anthracene
Concen: 18.61 ng
RT: 11.53 min Scan# 1640
Delta R.T. -0.02 min
Lab File: BF093906.D
Acq: 24 Mar 2017 14:13

Tgt Ion:178 Resp: 479447
Ion Ratio Lower Upper
178 100
176 18.6 15.8 23.8
179 15.7 12.7 19.1





#72

Carbazole

Concen: 6.37 ng

RT: 11.73 min Scan# 1674

Delta R.T. -0.02 min

Lab File: BF093906.D

Acq: 24 Mar 2017 14:13

Instrument :

BNA_F

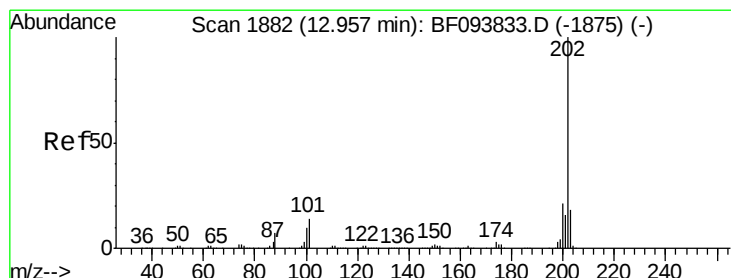
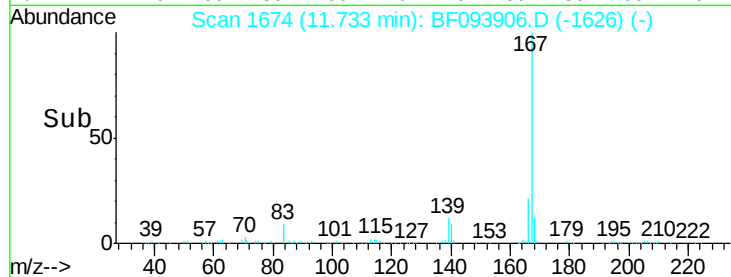
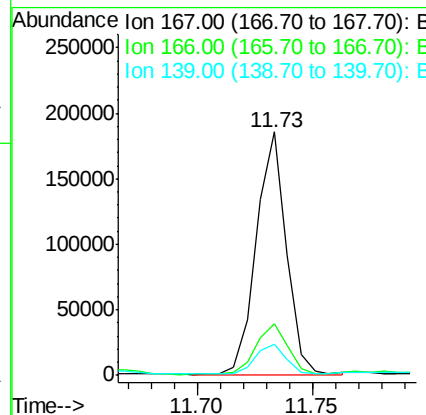
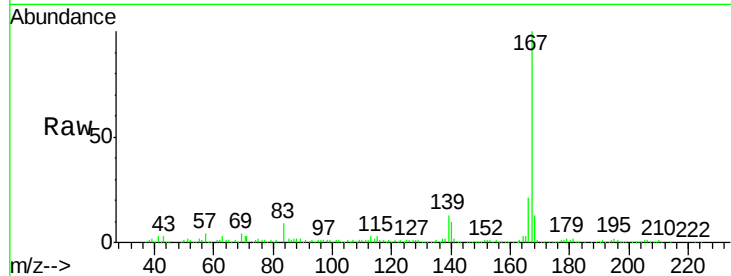
ClientSampleId :

E2-R13-WSW

Tot Ion:	167	Resp:	168230
Ion Ratio	Lower	Upper	
167	100		
166	21.1	18.1	27.1
139	12.8	11.7	17.5

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#74

Fluoranthene

Concen: 87.22 ng

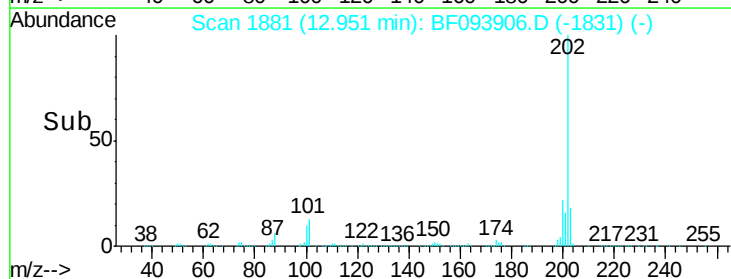
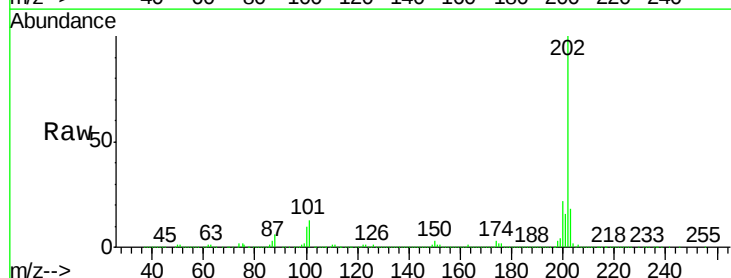
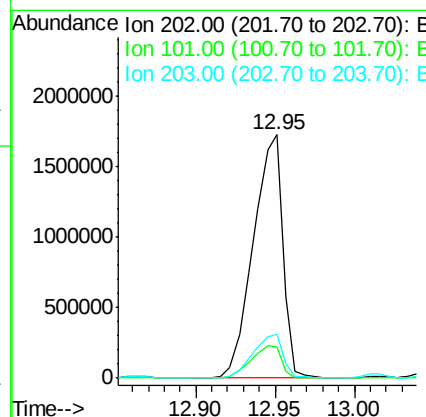
RT: 12.95 min Scan# 1881

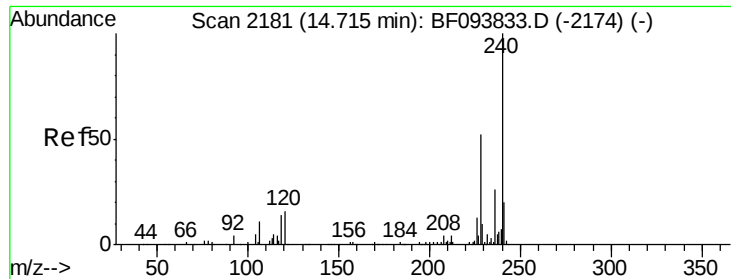
Delta R.T. -0.01 min

Lab File: BF093906.D

Acq: 24 Mar 2017 14:13

Tgt Ion:	202	Resp:	2234267
Ion Ratio	Lower	Upper	
202	100		
101	12.9	0.0	33.2
203	17.8	0.0	38.1





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.71 min Scan# 2180

Delta R.T. -0.01 min

Lab File: BF093906.D

Acq: 24 Mar 2017 14:13

Instrument :

BNA_F

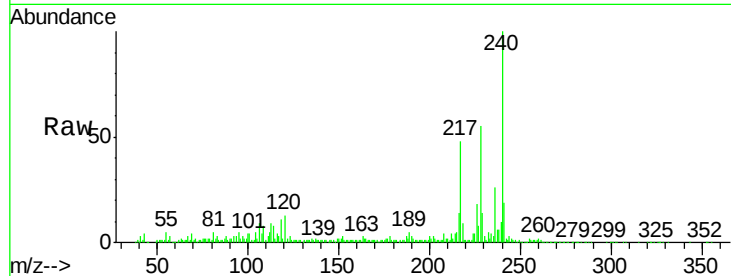
ClientSampleId :

E2-R13-WSW

Tot Ion	Ratio	Lower	Upper
240	100		
120	12.6	5.8	8.8#
236	25.6	20.5	30.7

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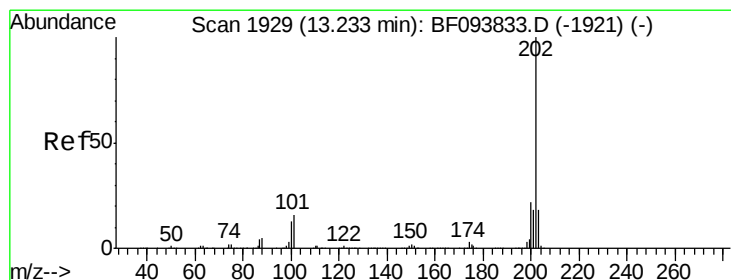
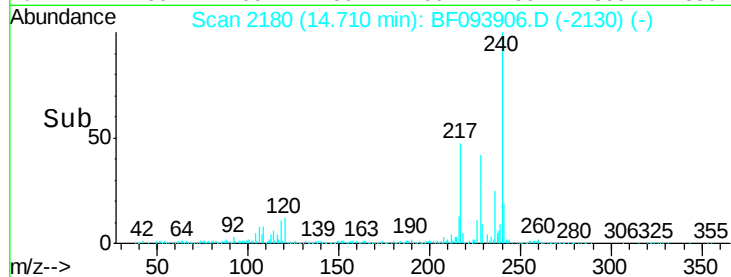
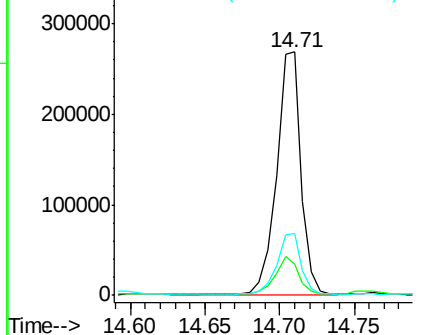
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Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 83.49 ng

RT: 13.23 min Scan# 1928

Delta R.T. -0.01 min

Lab File: BF093906.D

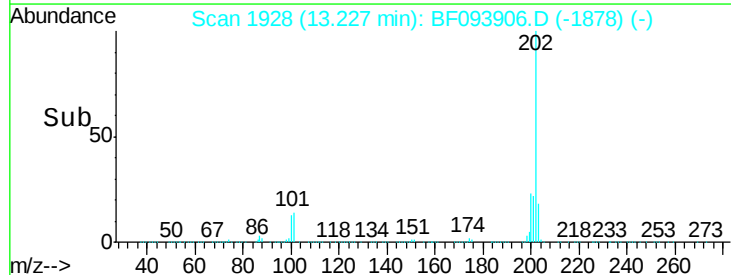
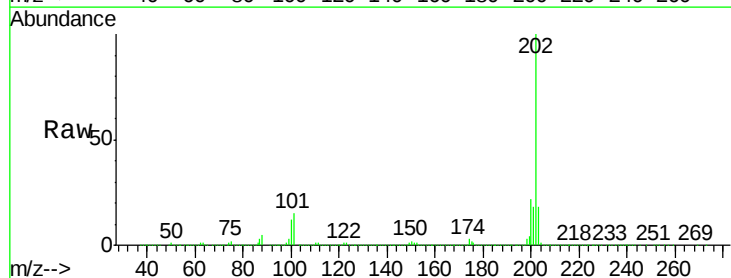
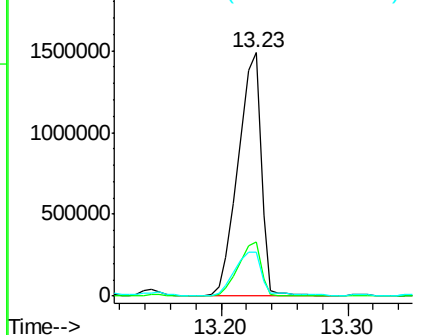
Acq: 24 Mar 2017 14:13

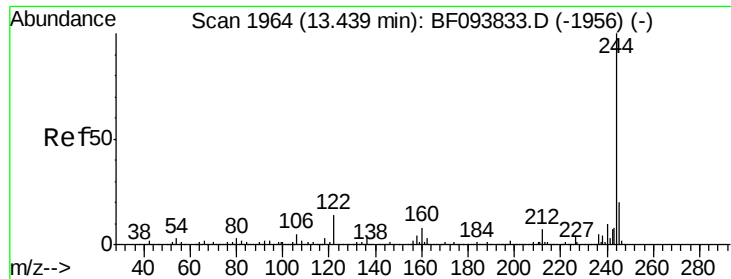
Tgt Ion	Ratio	Lower	Upper
202	100		
200	22.1	17.6	26.4
203	17.9	14.4	21.6

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: 58.10 ng

RT: 13.42 min Scan# 1961

Delta R.T. -0.02 min

Lab File: BF093906.D

Acq: 24 Mar 2017 14:13

Instrument :

BNA_F

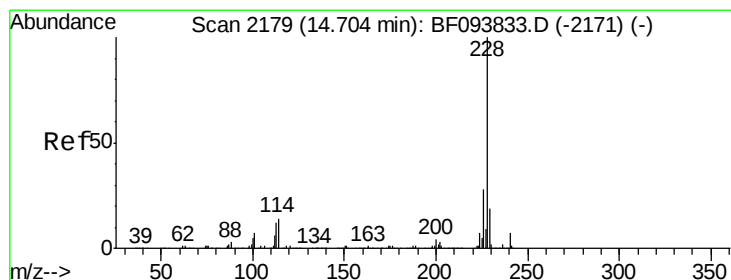
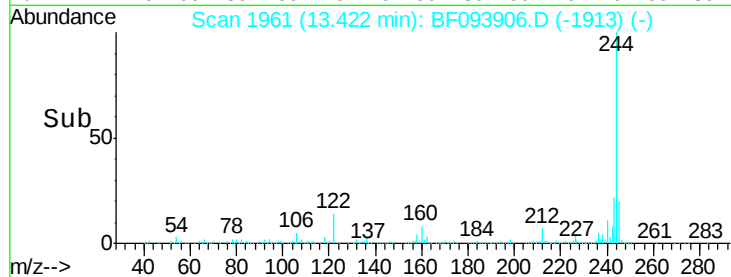
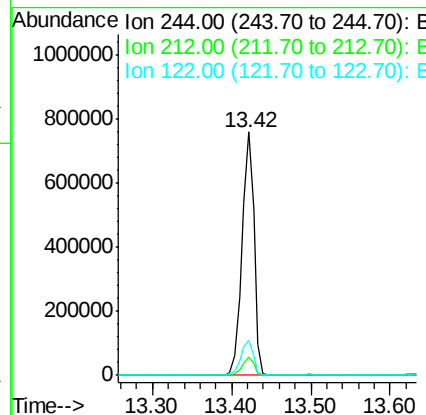
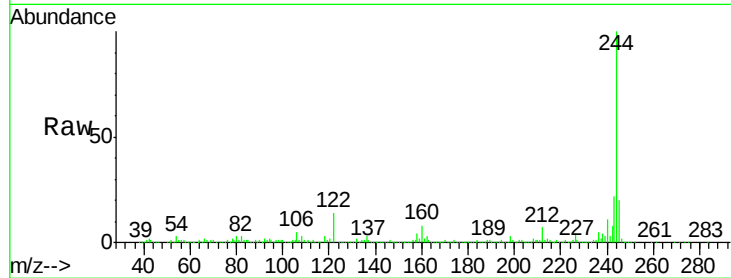
ClientSampleId :

E2-R13-WSW

Tot Ion:	244	Resp:	794405
Ion Ratio	Lower	Upper	
244	100		
212	7.4	6.0	9.0
122	14.2	10.3	15.5

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#80

Benzo(a)anthracene

Concen: 61.62 ng m

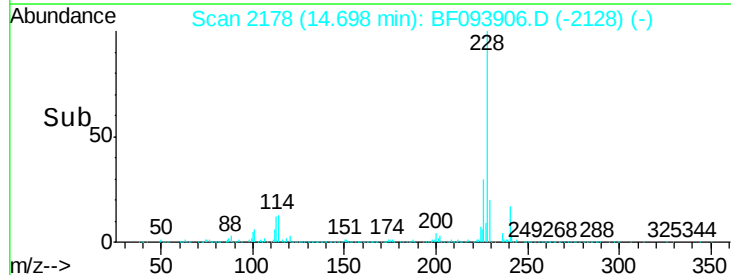
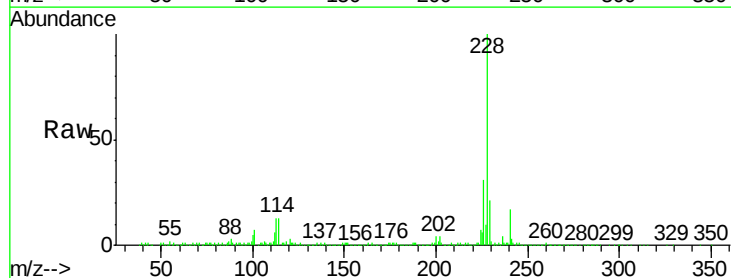
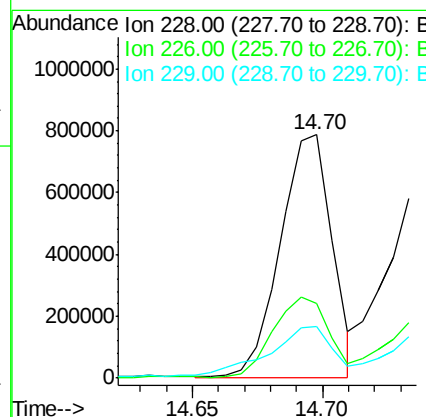
RT: 14.70 min Scan# 2178

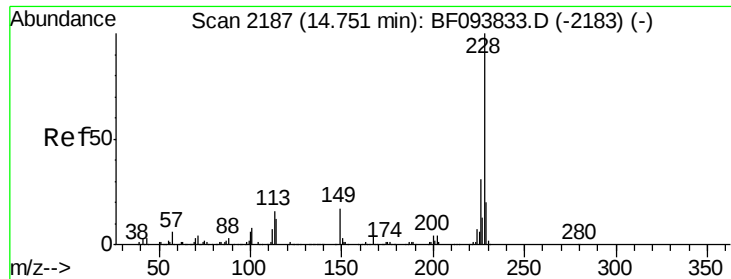
Delta R.T. -0.01 min

Lab File: BF093906.D

Acq: 24 Mar 2017 14:13

Tgt Ion:	228	Resp:	1101243
Ion Ratio	Lower	Upper	
228	100		
226	30.9	22.6	33.8
229	21.3	16.3	24.5





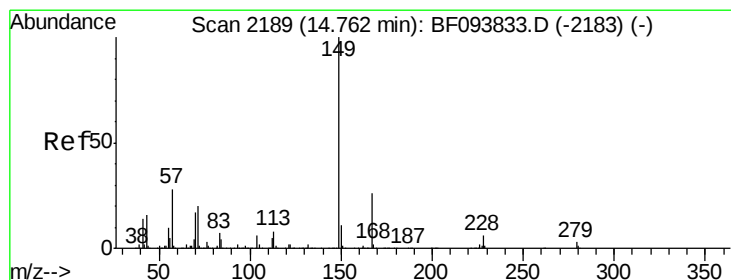
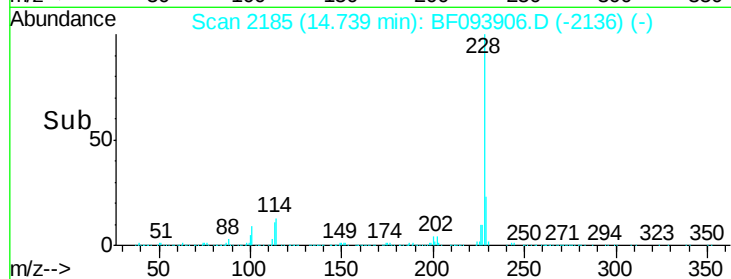
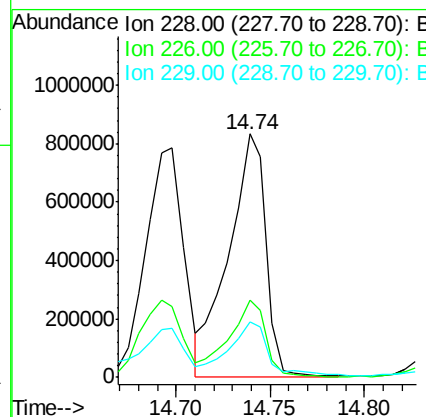
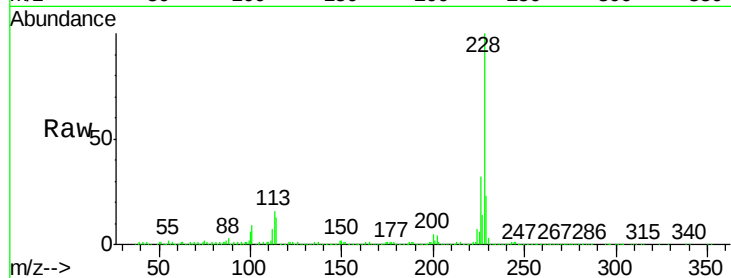
#82
 Chrysene
 Concen: 69.72 ng/ml
 RT: 14.74 min Scan# 2185
 Delta R.T. -0.01 min
 Lab File: BF093906.D
 Acq: 24 Mar 2017 14:13

Instrument :
 BNA_F
 ClientSampleId :
 E2-R13-WSW

Tot Ion	Ratio	Lower	Upper
228	100		
226	31.7	24.9	37.3
229	22.9	15.8	23.6

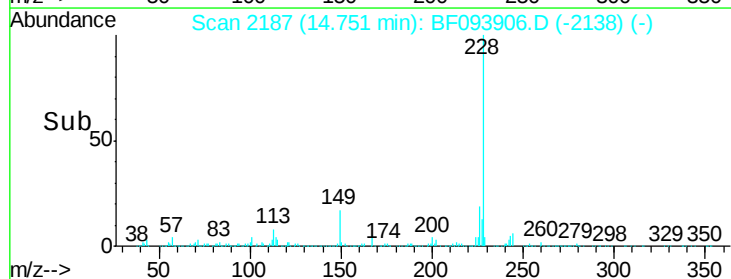
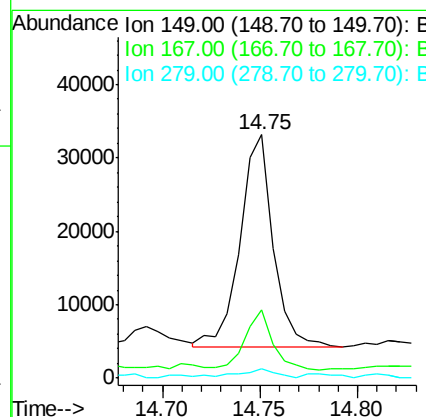
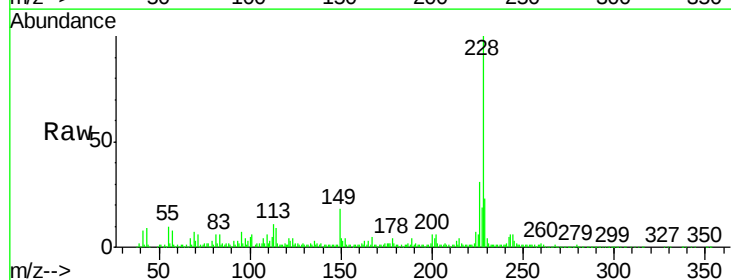
Manual Integrations
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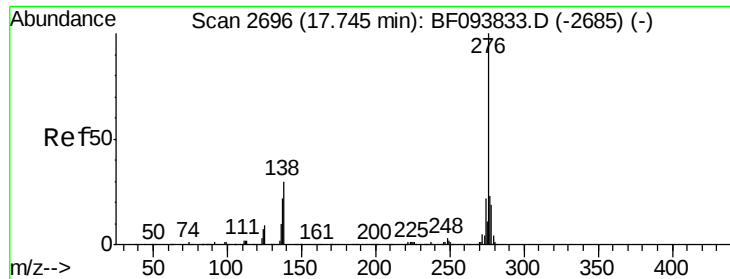
mohammad
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#83
 Bis(2-ethylhexyl)phthalate
 Concen: 2.63 ng
 RT: 14.75 min Scan# 2187
 Delta R.T. -0.01 min
 Lab File: BF093906.D
 Acq: 24 Mar 2017 14:13

Tgt Ion	Ratio	Lower	Upper
149	100		
167	27.9	21.0	31.4
279	4.0	1.9	2.9





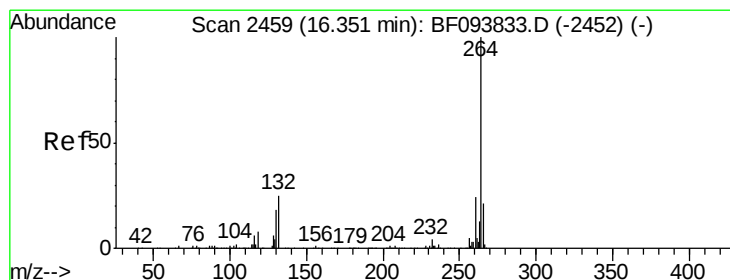
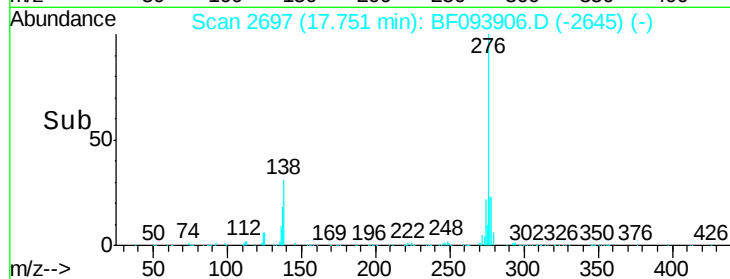
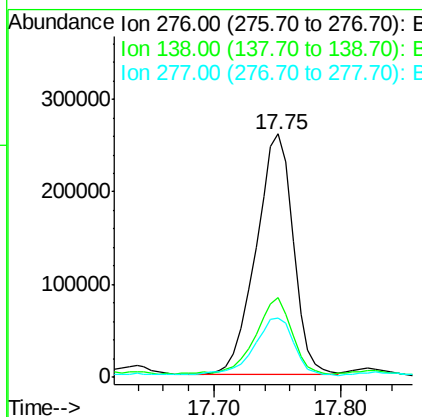
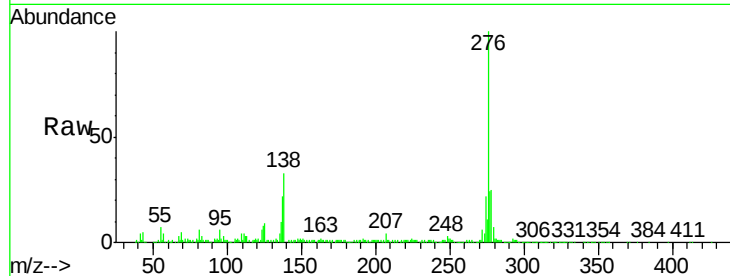
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 36.86 ng
 RT: 17.75 min Scan# 2697
 Delta R.T. 0.01 min
 Lab File: BF093906.D
 Acq: 24 Mar 2017 14:13

Instrument :
 BNA_F
 ClientSampleId :
 E2-R13-WSW

Tot Ion	Ratio	Lower	Upper
276	100		
138	30.6	27.8	41.6
277	25.4	20.2	30.4

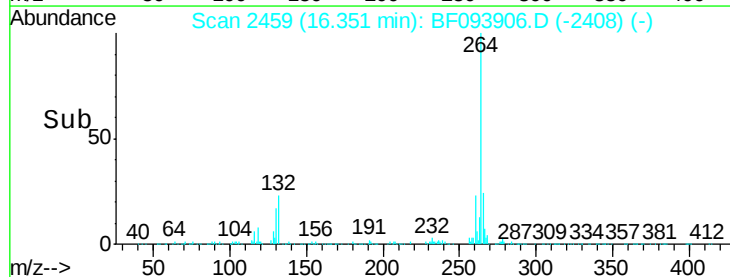
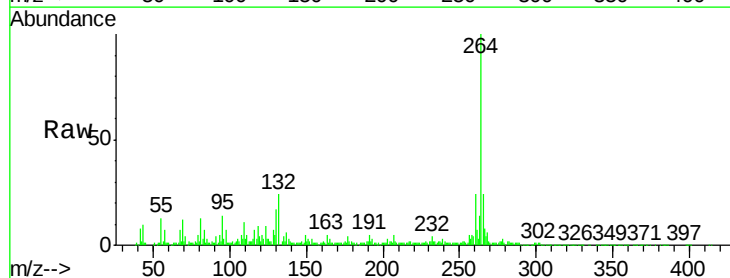
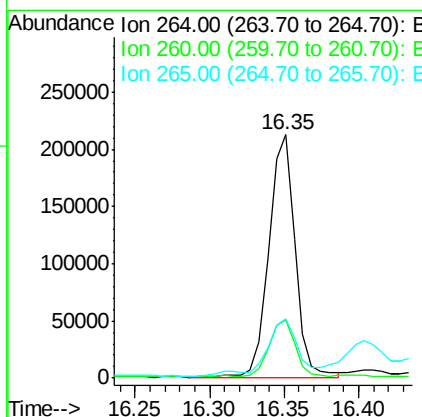
Manual Integrations
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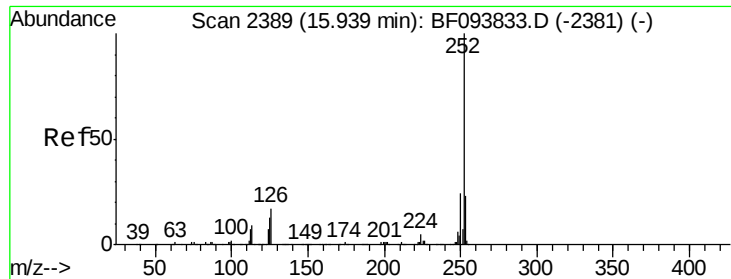
mohammad
 3/27/2017 12:56:13 PM



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 16.35 min Scan# 2459
 Delta R.T. 0.00 min
 Lab File: BF093906.D
 Acq: 24 Mar 2017 14:13

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.0	19.5	29.3
265	24.4	17.2	25.8





#87

Benzo(b)fluoranthene

Concen: 94.56 ng m

RT: 15.94 min Scan# 2389

Delta R.T. 0.00 min

Lab File: BF093906.D

Acq: 24 Mar 2017 14:13

Instrument :

BNA_F

ClientSampleId :

E2-R13-WSW

Tot Ion:252 Resp: 1492745

Ion Ratio Lower Upper

252 100

253 23.0 18.1 27.1

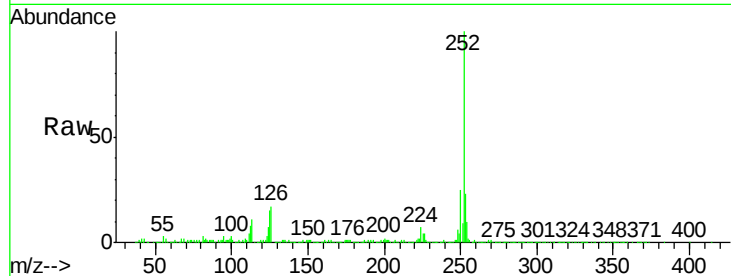
125 15.0 9.8 14.8#

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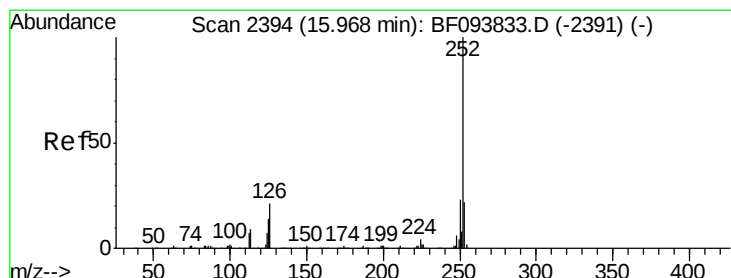
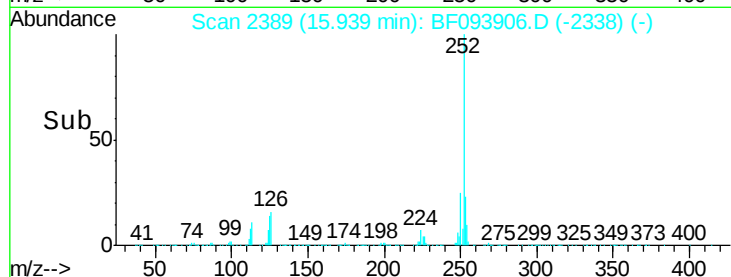
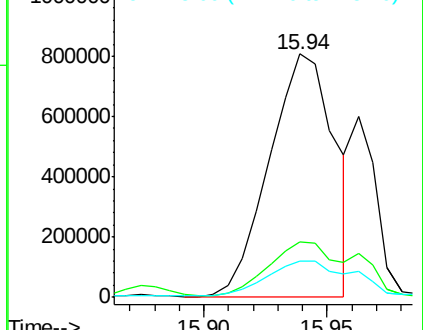
3/27/2017 12:56:13 PM



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



#88

Benzo(k)fluoranthene

Concen: 27.33 ng m

RT: 15.96 min Scan# 2393

Delta R.T. -0.01 min

Lab File: BF093906.D

Acq: 24 Mar 2017 14:13

Tgt Ion:252 Resp: 422166

Ion Ratio Lower Upper

252 100

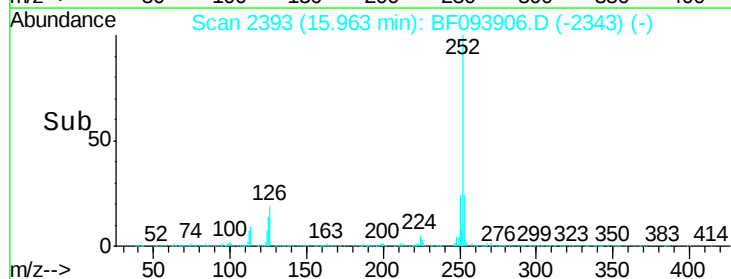
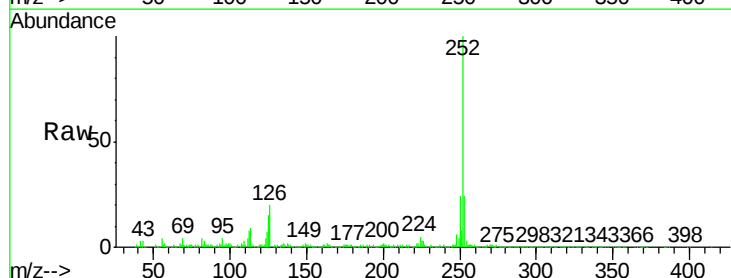
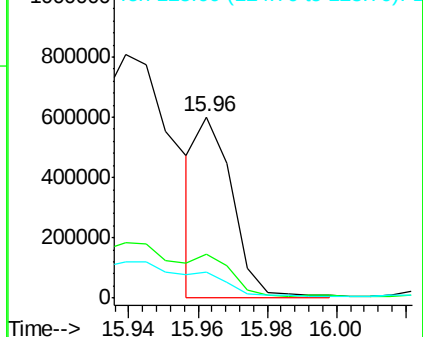
253 24.0 18.4 27.6

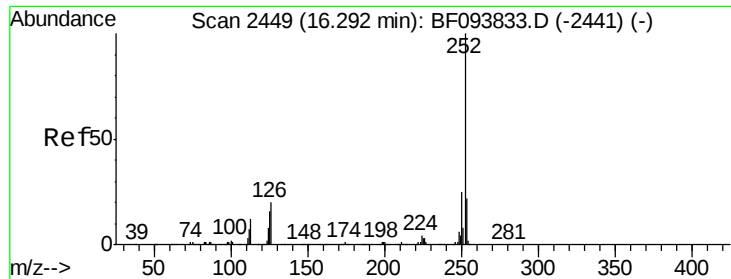
125 14.6 13.1 19.7

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





#89

Benzo(a)pyrene

Concen: 52.75 ng

RT: 16.29 min Scan# 2449

Delta R.T. 0.00 min

Lab File: BF093906.D

Acq: 24 Mar 2017 14:13

Instrument :

BNA_F

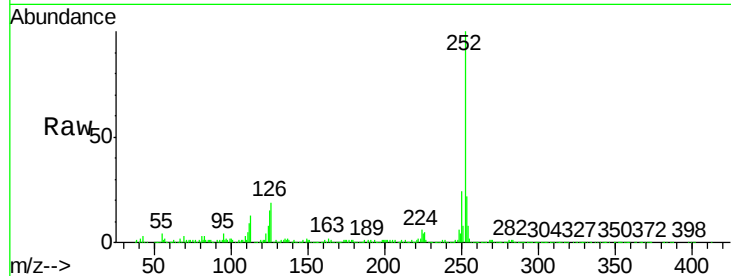
ClientSampleId :

E2-R13-WSW

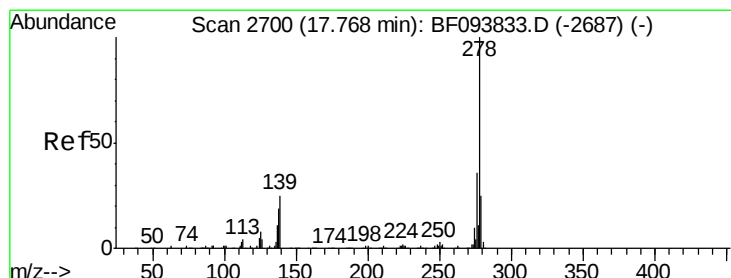
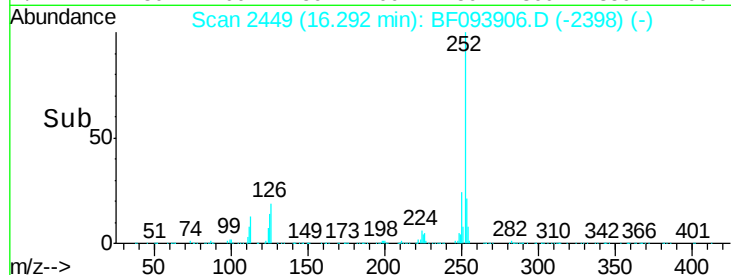
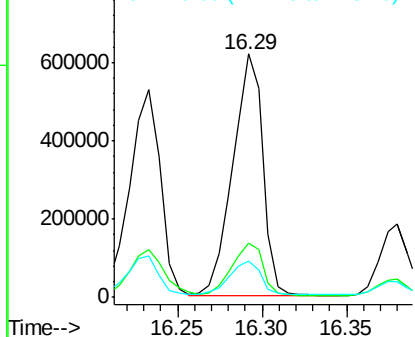
Tot Ion:	252	Resp:	766885
Ion Ratio	Lower	Upper	
252	100		
253	22.5	17.5	26.3
125	14.7	11.0	16.4

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



#90

Dibenzo(a,h)anthracene

Concen: 11.49 ng

RT: 17.76 min Scan# 2699

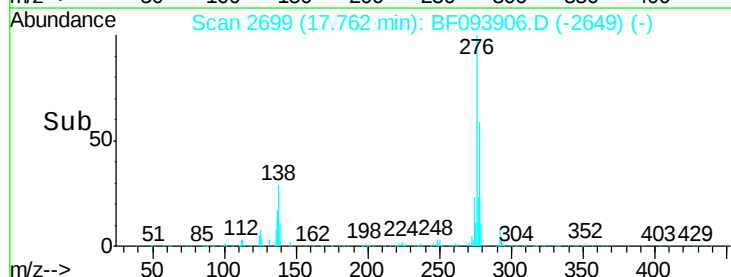
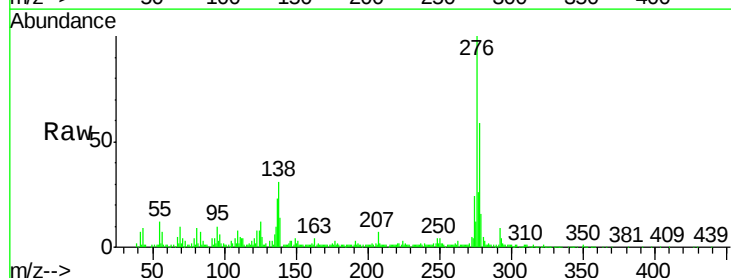
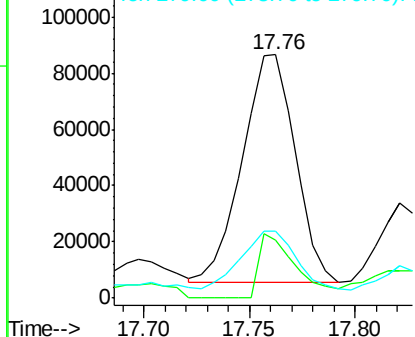
Delta R.T. -0.01 min

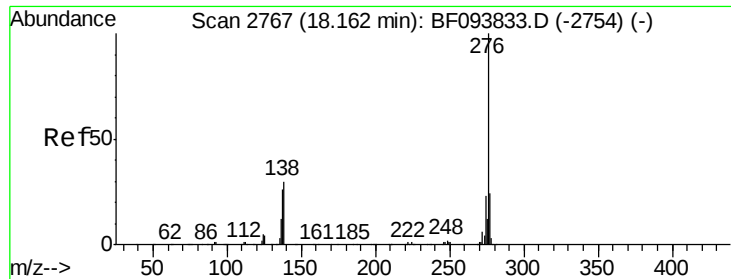
Lab File: BF093906.D

Acq: 24 Mar 2017 14:13

Tgt Ion:	278	Resp:	141511
Ion Ratio	Lower	Upper	
278	100		
139	23.7	16.6	24.8
279	27.5	19.3	28.9

Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E





#91
 Benzo(a,h,i)perylene
 Concen: 36.44 ng
 RT: 18.16 min Scan# 2767
 Delta R.T. 0.00 min
 Lab File: BF093906.D
 Acq: 24 Mar 2017 14:13

Instrument :
 BNA_F
 ClientSampleId :
 E2-R13-WSW

Tot Ion	Ratio	Lower	Upper
276	100		
277	23.8	18.6	28.0
138	31.2	25.4	38.0

Manual Integrations
 APPROVED

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