

Data Path : Z:\HPCHEM1\BNA F\DATA\BF032417\
 Data File : BF093901.D
 Acq On : 24 Mar 2017 11:58
 Operator : SJ/MA
 Sample : I2367-20
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 E2-CC8-BASE

Manual Integrations
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 3/27/2017 12:55:53 PM

Quant Time: Mar 25 00:05:09 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	203852	20.00	ng	-0.02
21) Naphthalene-d8	7.47	136	804015	20.00	ng	-0.02
38) Acenaphthene-d10	9.62	164	343139	20.00	ng	-0.02
63) Phenanthrene-d10	11.44	188	533325	20.00	ng	-0.02
75) Chrysene-d12	14.70	240	325012	20.00	ng	-0.01
86) Perylene-d12	16.34	264	297891	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	4.50	112	1124055	93.13	ng	0.00
7) Phenol-d6	5.56	99	1370866	91.81	ng	0.00
23) Nitrobenzene-d5	6.62	82	870969	61.82	ng	-0.02
41) 2,4,6-Tribromophenol	10.59	330	242515	89.44	ng	-0.02
44) 2-Fluorobiphenyl	8.80	172	1397725	62.13	ng	-0.02
78) Terphenyl-d14	13.42	244	773850	53.37	ng	-0.02
Target Compounds						Qvalue
9) Benzaldehyde	5.46	77	23629	2.34	ng	96
20) 3+4-Methylphenols	6.44	107	36306	2.64	ng	# 59
31) Naphthalene	7.50	128	243209	6.29	ng	99
37) 2-Methylnaphthalene	8.34	142	108888	4.23	ng	98
49) Dimethylphthalate	9.29	163	140579	5.76	ng	99
54) Dibenzofuran	9.86	168	109554	3.83	ng	96
57) Fluorene	10.29	166	54678	2.31	ng	94
70) Phenanthrene	11.47	178	834254	28.12	ng	99
71) Anthracene	11.53	178	203922	6.68	ng	97
72) Carbazole	11.73	167	73477	2.35	ng	100
74) Fluoranthene	12.94	202	831830	27.38	ng	100
77) Pylene	13.22	202	718000	30.44	ng	99
80) Benzo(a)anthracene	14.69	228	338106	17.84	ng	99
82) Chrysene	14.73	228	328097	18.65	ng	96
85) Indeno(1,2,3-cd)pyrene	17.73	276	163756	10.75	ng	92
87) Benzo(b)fluoranthene	15.93	252	371487m	20.34	ng	
88) Benzo(k)fluoranthene	15.96	252	142222m	7.96	ng	
89) Benzo(a)pyrene	16.28	252	269892	16.05	ng	# 93
90) Dibenzo(a,h)anthracene	17.75	278	42711	3.00	ng	# 77
91) Benzo(a,h,i)perylene	18.14	276	164788	11.48	ng	97

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

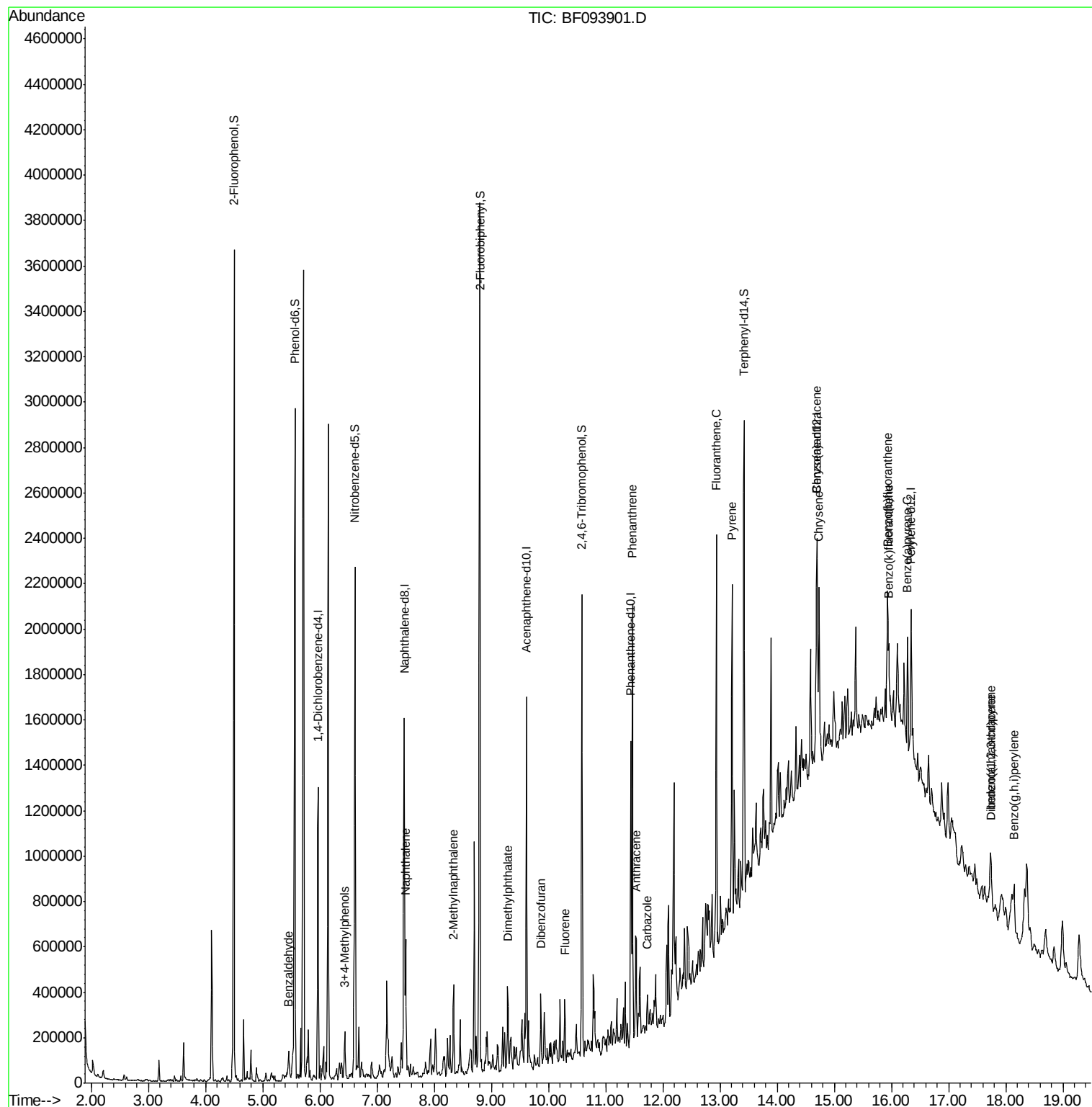
Data Path : Z:\HPCHEM1\BNA F\DATA\BF032417\
Data File : BF093901.D
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ALS Vial : 4 Sample Multiplier: 1

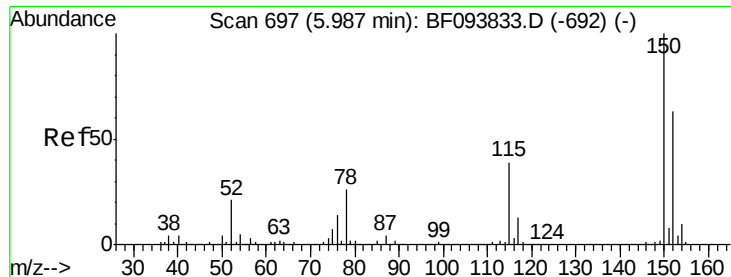
Instrument :
BNA_F
ClientSampled :
E2-CC8-BASE

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Quant Time: Mar 25 00:05:09 2017
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032217.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

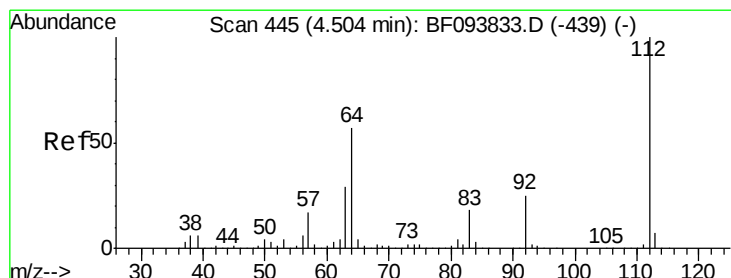
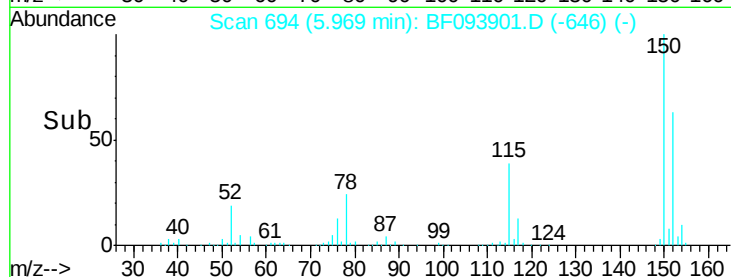
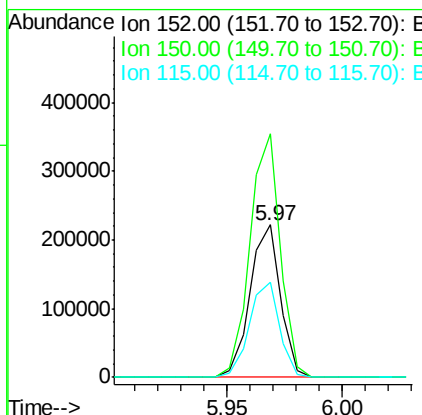
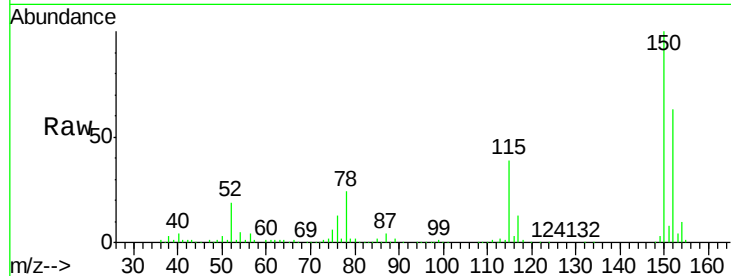
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 5.97 min Scan# 694
Delta R.T. -0.02 min
Lab File: BF093901.D
Acq: 24 Mar 2017 11:58

Instrument :
BNA_F
ClientSampleId :
E2-CC8-BASE

Tot Ion	Ratio	Lower	Upper
152	100		
150	159.7	126.2	189.2
115	62.6	52.2	78.2

Manual Integrations
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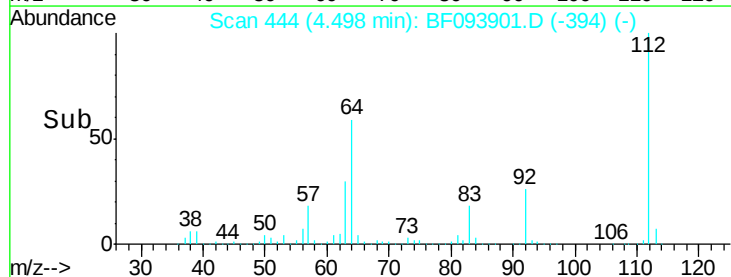
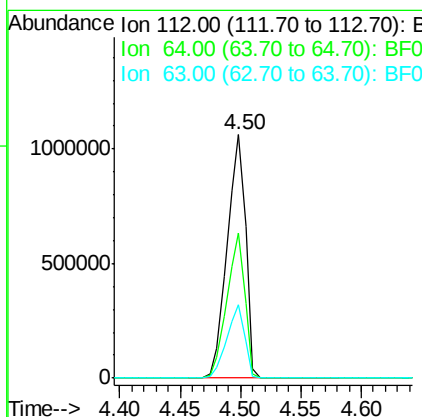
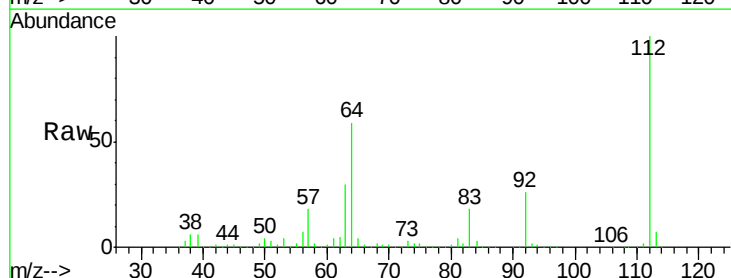
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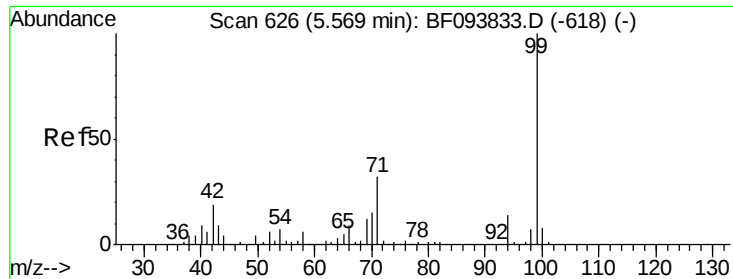


#5

2-Fluorophenol
Concen: 93.13 ng
RT: 4.50 min Scan# 444
Delta R.T. -0.01 min
Lab File: BF093901.D
Acq: 24 Mar 2017 11:58

Tgt Ion	Ratio	Lower	Upper
112	100		
64	59.4	46.0	69.0
63	30.1	23.4	35.0





#7

Phenol-d6

Concen: 91.81 ng

RT: 5.56 min Scan# 625

Delta R.T. -0.01 min

Lab File: BF093901.D

Acq: 24 Mar 2017 11:58

Instrument :

BNA_F

ClientSampleId :

E2-CC8-BASE

Tot Ion: 99 Resp: 1370866

Ion Ratio Lower Upper

99 100

42 18.3 13.5 20.3

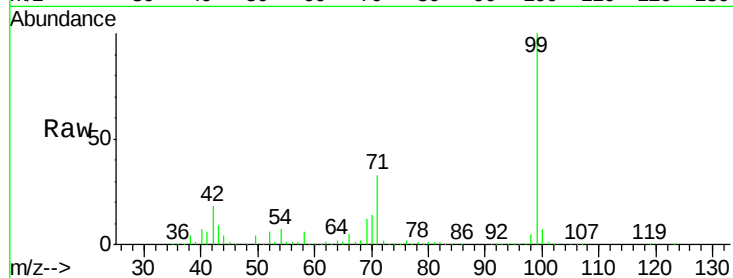
71 33.1 24.5 36.7

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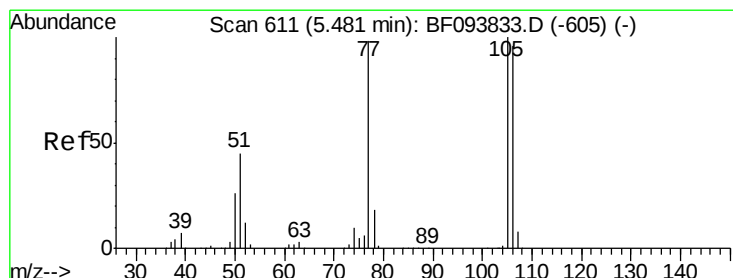
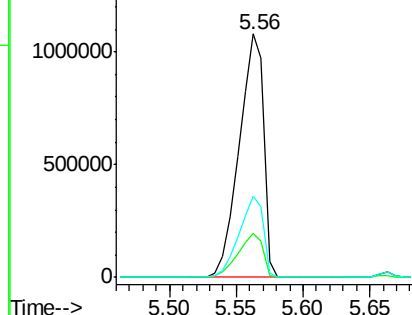
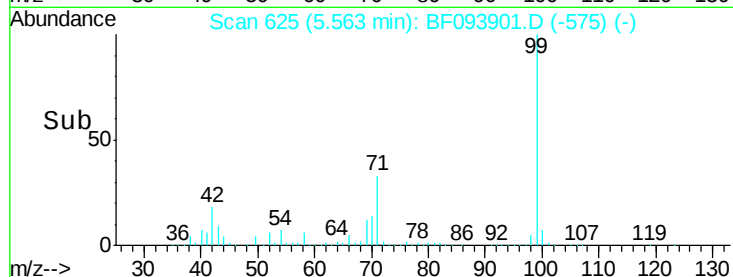
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Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#9

Benzaldehyde

Concen: 2.34 ng

RT: 5.46 min Scan# 607

Delta R.T. -0.02 min

Lab File: BF093901.D

Acq: 24 Mar 2017 11:58

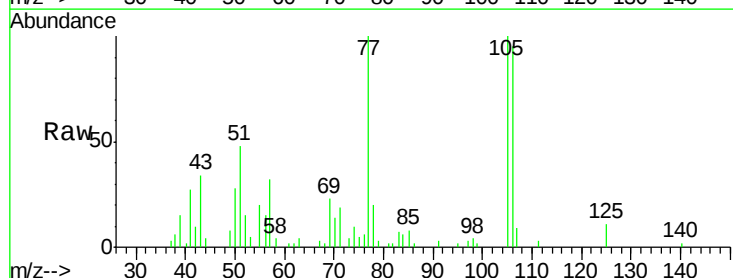
Tgt Ion: 77 Resp: 23629

Ion Ratio Lower Upper

77 100

105 100.2 83.8 123.8

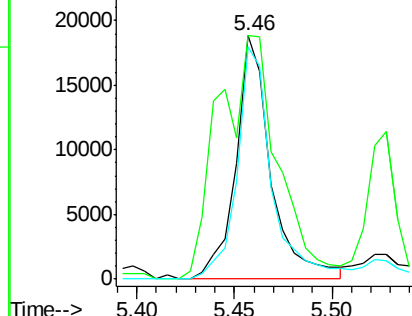
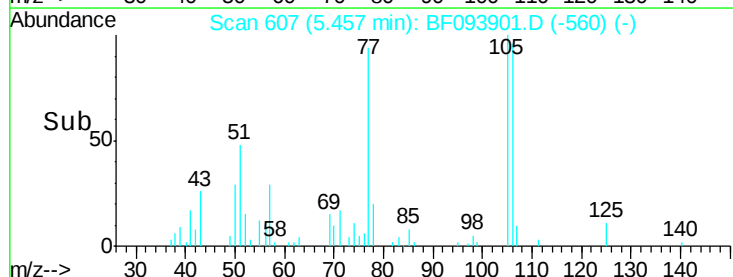
106 95.4 79.1 119.1

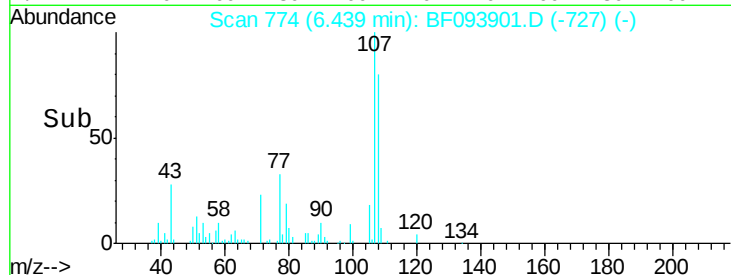
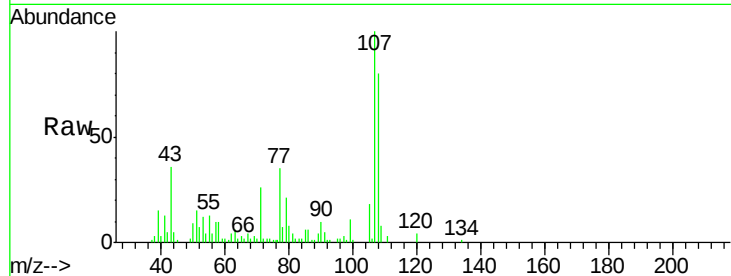
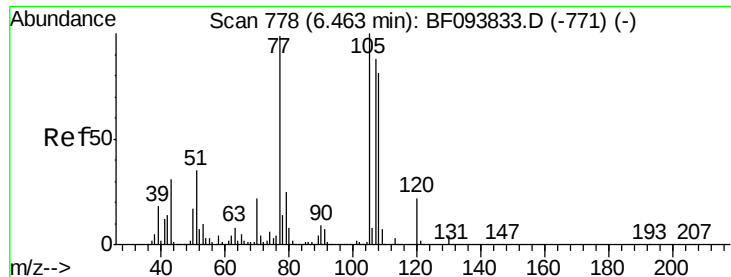


Abundance Ion 77.00 (76.70 to 77.70): BF0

Ion 105.00 (104.70 to 105.70): BF0

Ion 106.00 (105.70 to 106.70): BF0





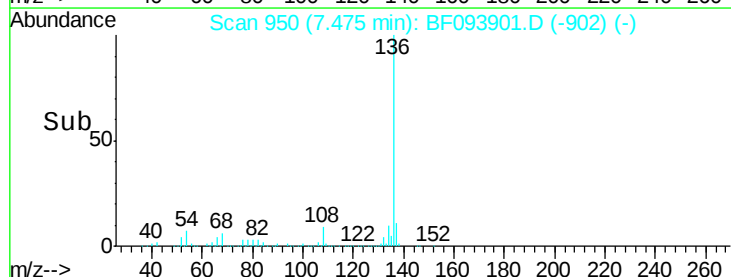
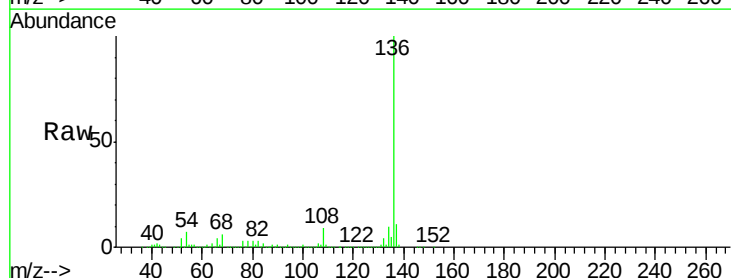
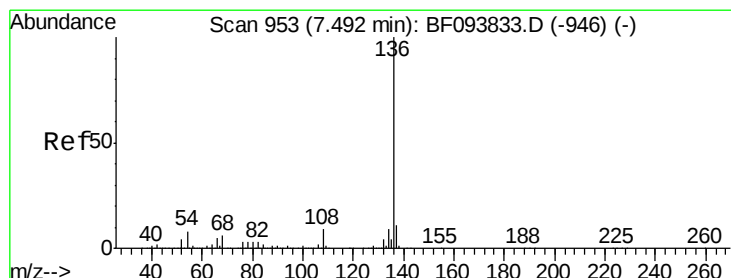
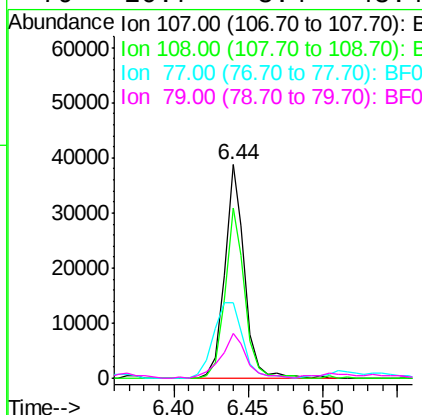
#20
3+4-Methylphenols
Concen: 2.64 ng
RT: 6.44 min Scan# 774
Delta R.T. -0.02 min
Lab File: BF093901.D
Acq: 24 Mar 2017 11:58

Tot Ion	Ratio	Resp	Lower	Upper
107	100			
108	79.8	71.0	111.0	
77	35.1	90.5	130.5	
79	20.7	8.4	48.4	

Instrument :
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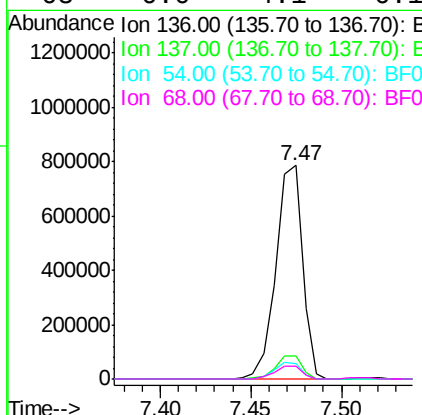
Manual Integrations
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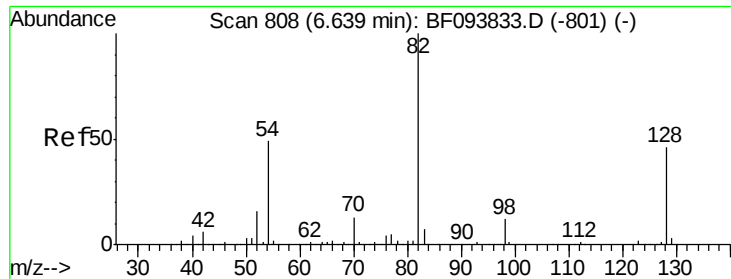
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#21
Naphthalene-d8
Concen: 20.00 ng
RT: 7.47 min Scan# 950
Delta R.T. -0.02 min
Lab File: BF093901.D
Acq: 24 Mar 2017 11:58

Tgt Ion	Ratio	Resp	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	





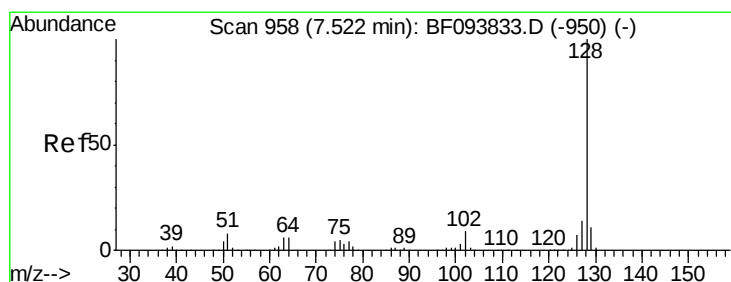
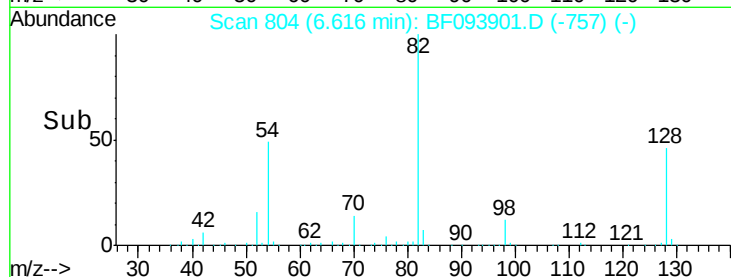
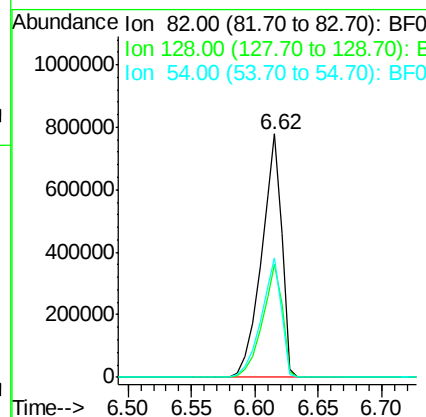
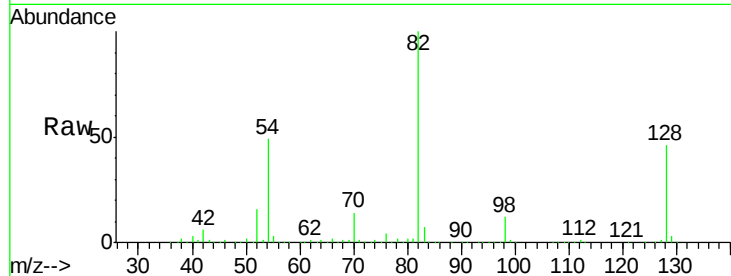
#23
Nitrobenzene-d5
Concen: 61.82 ng
RT: 6.62 min Scan# 804
Delta R.T. -0.02 min
Lab File: BF093901.D
Acq: 24 Mar 2017 11:58

Instrument :
BNA_F
ClientSampleId :
E2-CC8-BASE

Tot Ion	Ratio	Lower	Upper
82	100		
128	46.3	34.0	51.0
54	49.2	42.2	63.2

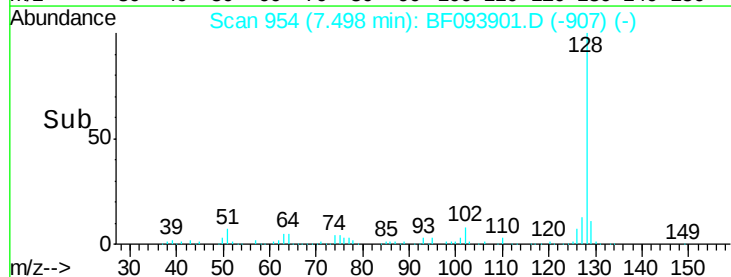
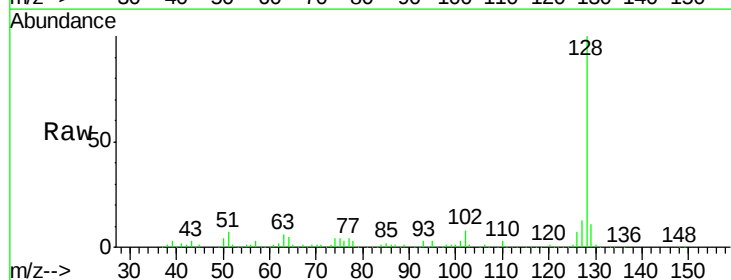
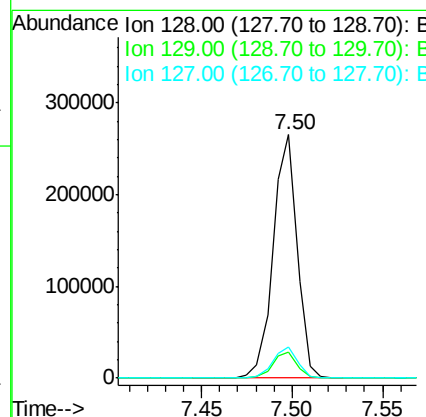
Manual Integrations
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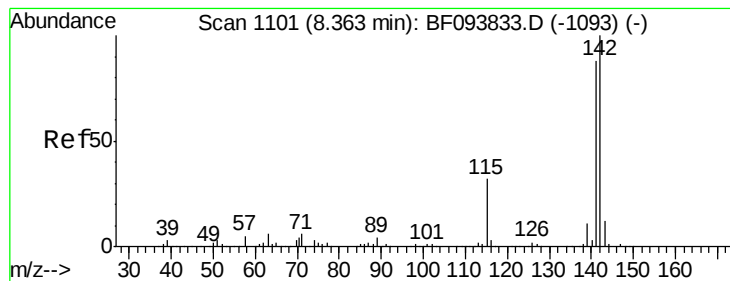
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#31
Naphthalene
Concen: 6.29 ng
RT: 7.50 min Scan# 954
Delta R.T. -0.02 min
Lab File: BF093901.D
Acq: 24 Mar 2017 11:58

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.9	9.0	13.6
127	13.1	10.8	16.2





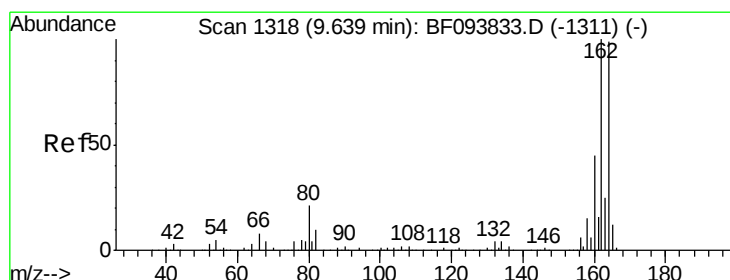
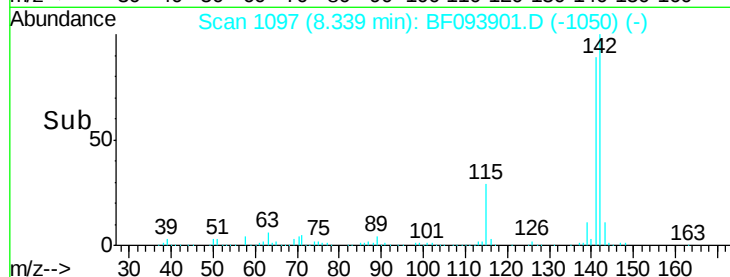
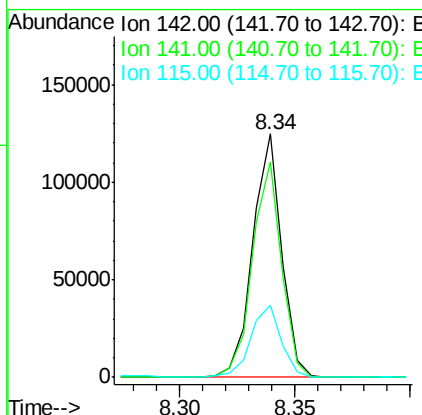
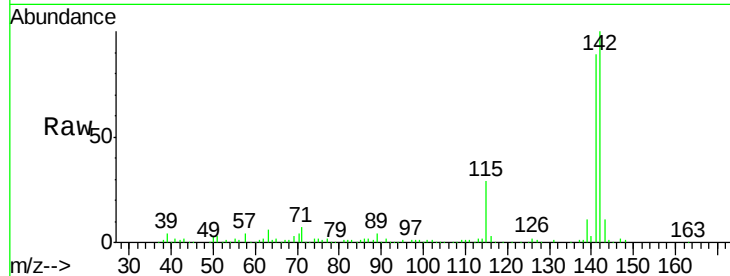
#37
2-Methylnaphthalene
Concen: 4.23 ng
RT: 8.34 min Scan# 1097
Delta R.T. -0.02 min
Lab File: BF093901.D
Acq: 24 Mar 2017 11:58

Instrument :
BNA_F
ClientSampleId :
E2-CC8-BASE

Tot Ion	Ratio	Lower	Upper
142	100		
141	88.7	71.3	106.9
115	29.4	27.1	40.7

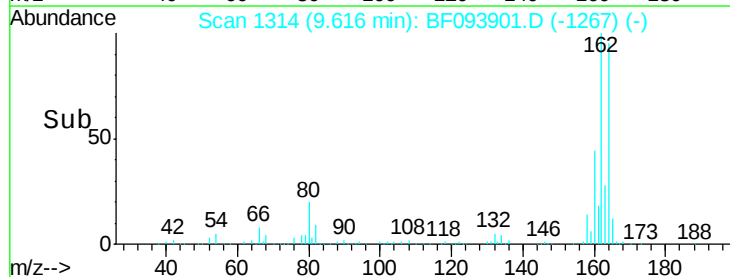
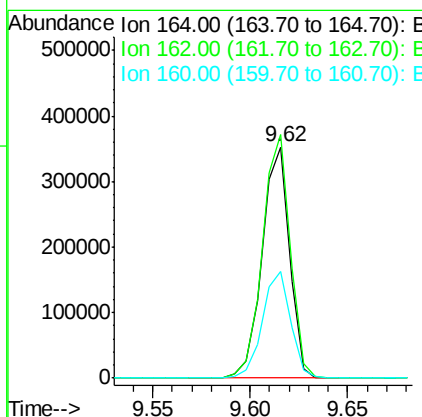
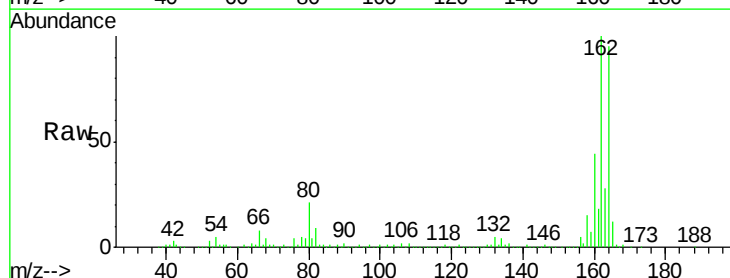
Manual Integrations
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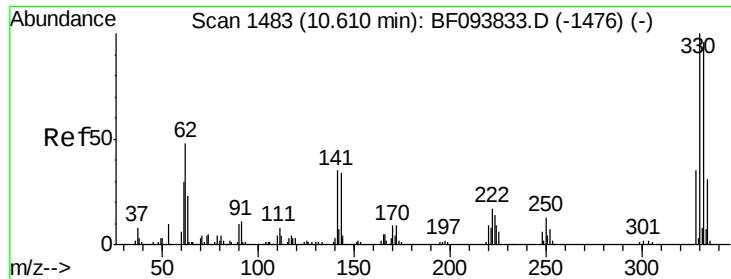
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.62 min Scan# 1314
Delta R.T. -0.02 min
Lab File: BF093901.D
Acq: 24 Mar 2017 11:58

Tgt Ion	Ratio	Lower	Upper
164	100		
162	105.2	82.6	123.8
160	46.2	36.2	54.2





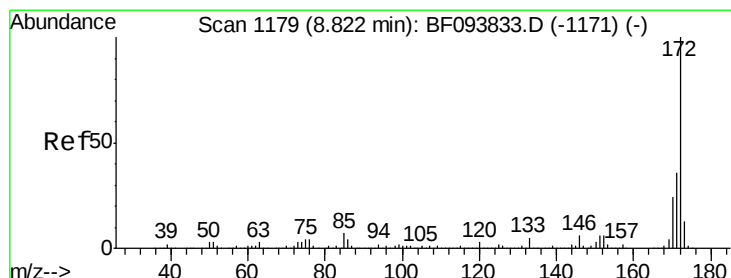
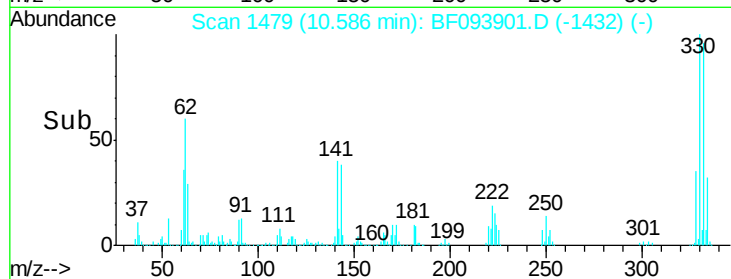
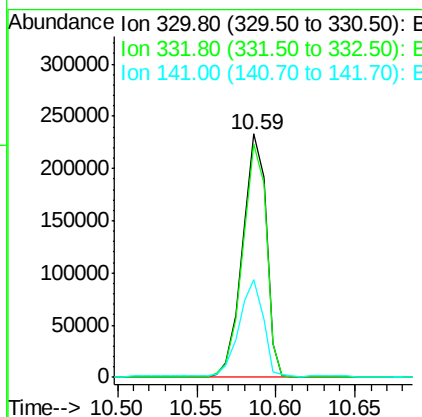
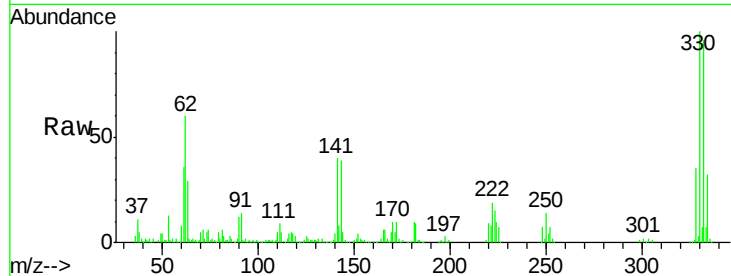
#41
 2,4,6-Tribromophenol
 Concen: 89.44 ng
 RT: 10.59 min Scan# 1479
 Delta R.T. -0.02 min
 Lab File: BF093901.D
 Acq: 24 Mar 2017 11:58

Instrument :
 BNA_F
 ClientSampleId :
 E2-CC8-BASE

Tot Ion	Ratio	Lower	Upper
330	100		
332	95.9	76.6	115.0
141	41.2	31.4	47.2

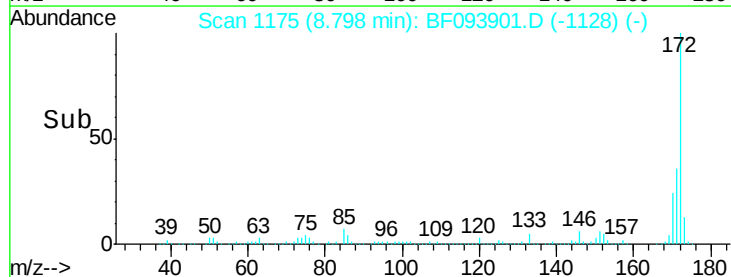
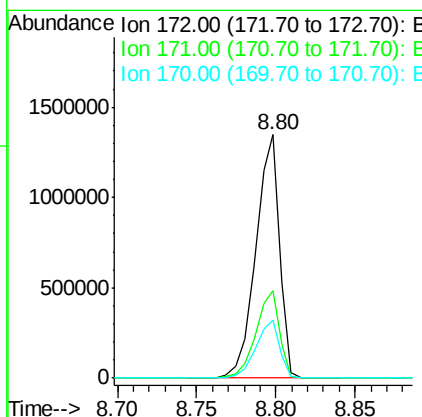
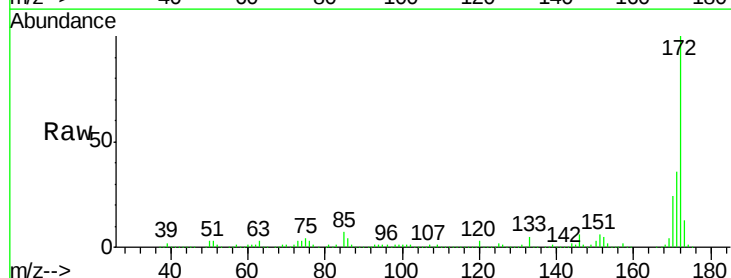
Manual Integrations
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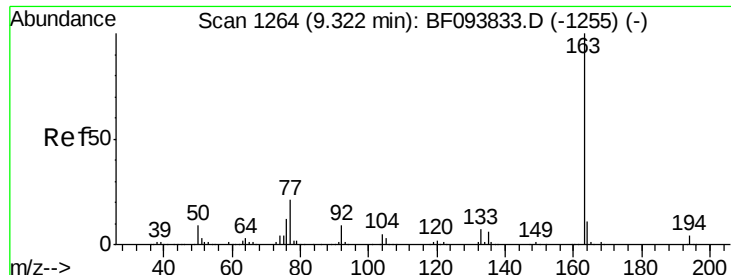
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#44
 2-Fluorobiphenyl
 Concen: 62.13 ng
 RT: 8.80 min Scan# 1175
 Delta R.T. -0.02 min
 Lab File: BF093901.D
 Acq: 24 Mar 2017 11:58

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.9	29.6	44.4
170	23.9	19.8	29.8





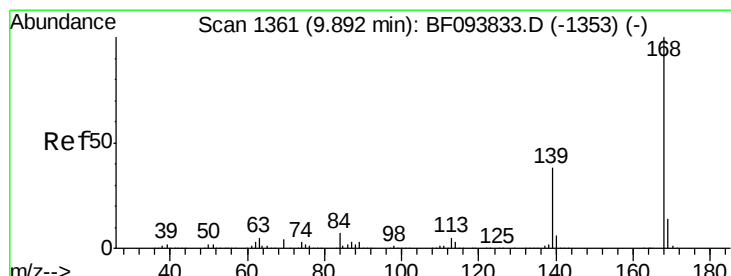
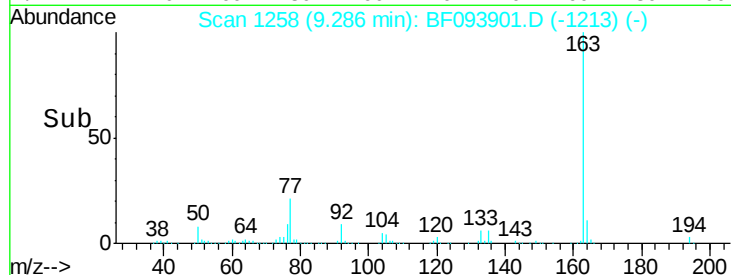
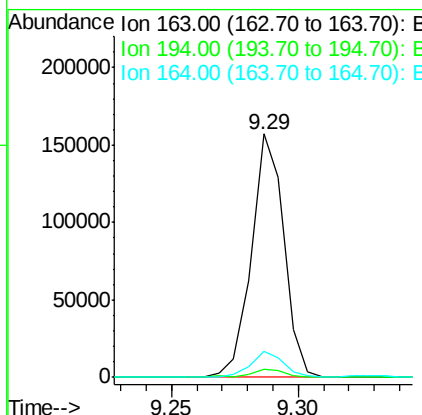
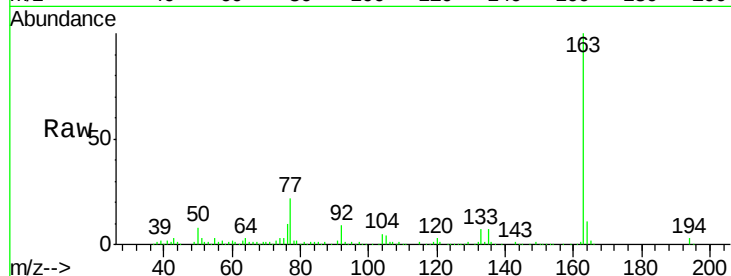
#49
Dimethylphthalate
Concen: 5.76 ng
RT: 9.29 min Scan# 1258
Delta R.T. -0.04 min
Lab File: BF093901.D
Acq: 24 Mar 2017 11:58

Instrument :
BNA_F
ClientSampleId :
E2-CC8-BASE

Tot Ion	Ratio	Resp	Lower	Upper
163	100	140579		
194	3.1		2.6	4.0
164	10.8		8.4	12.6

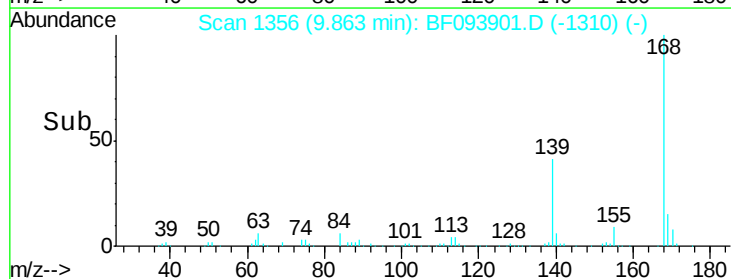
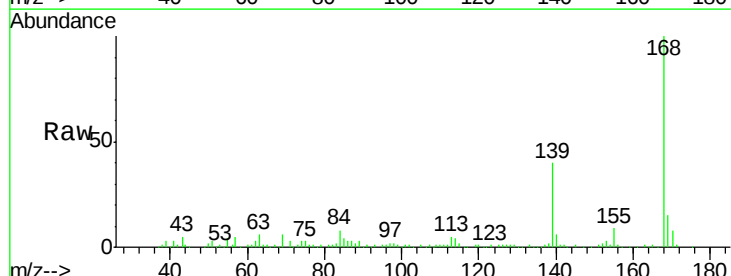
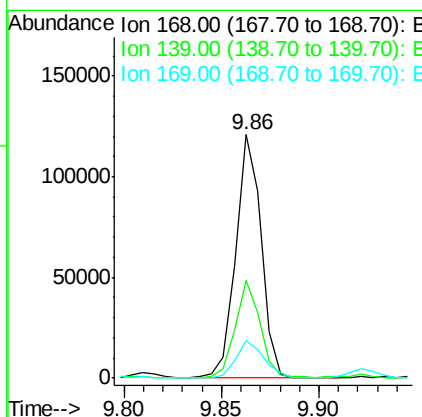
Manual Integrations
APPROVED

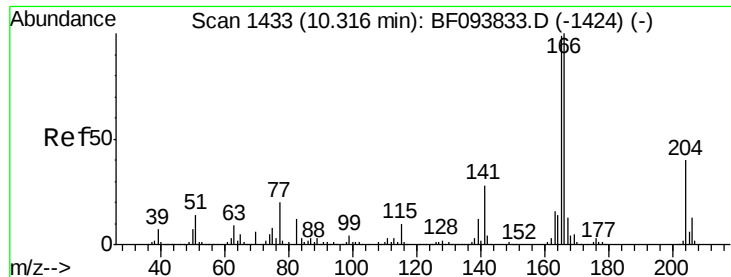
mohammad
3/27/2017 12:55:53 PM



#54
Dibenzofuran
Concen: 3.83 ng
RT: 9.86 min Scan# 1356
Delta R.T. -0.03 min
Lab File: BF093901.D
Acq: 24 Mar 2017 11:58

Tgt Ion	Ratio	Resp	Lower	Upper
168	100	109554		
139	40.2		30.6	45.8
169	15.2		10.8	16.2





#57

Fluorene

Concen: 2.31 ng

RT: 10.29 min Scan# 1428

Delta R.T. -0.03 min

Lab File: BF093901.D

Acq: 24 Mar 2017 11:58

Instrument :

BNA_F

ClientSampleId :

E2-CC8-BASE

Tot Ion:166 Resp: 54678

Ion Ratio Lower Upper

166 100

165 104.7 78.8 118.2

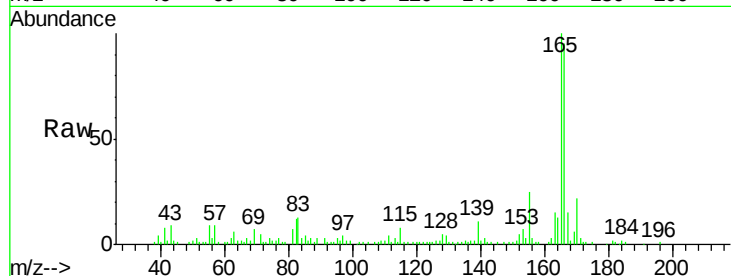
167 15.5 10.6 16.0

Manual Integrations

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mohammad

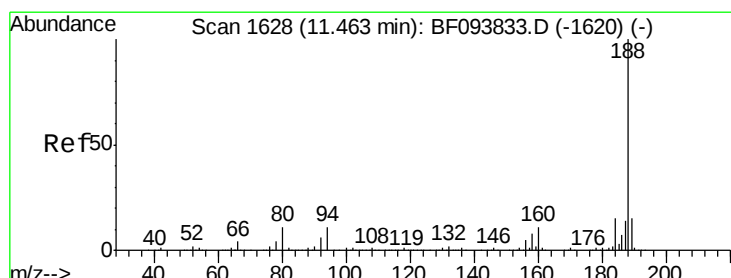
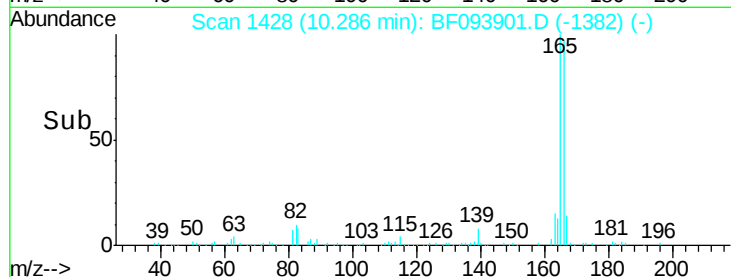
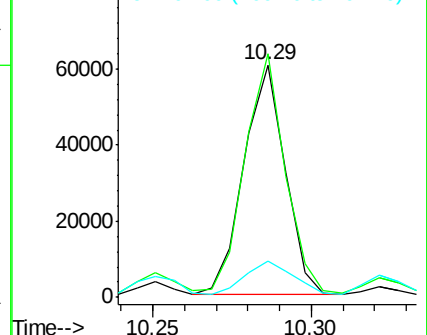
3/27/2017 12:55:53 PM



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: BF093901.D

Acq: 24 Mar 2017 11:58

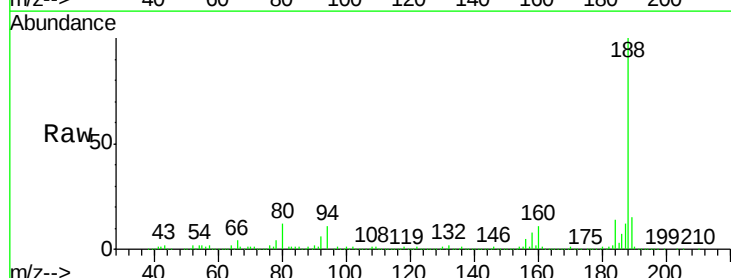
Tgt Ion:188 Resp: 533325

Ion Ratio Lower Upper

188 100

94 11.0 9.4 14.2

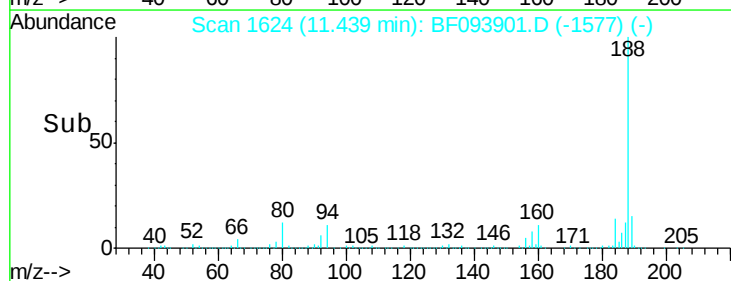
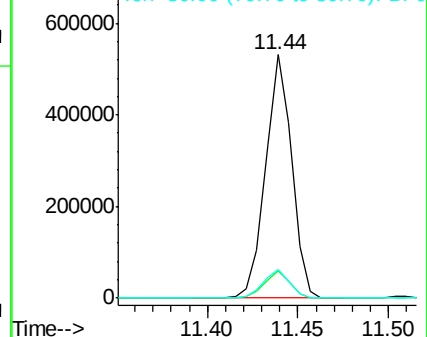
80 11.9 10.2 15.2

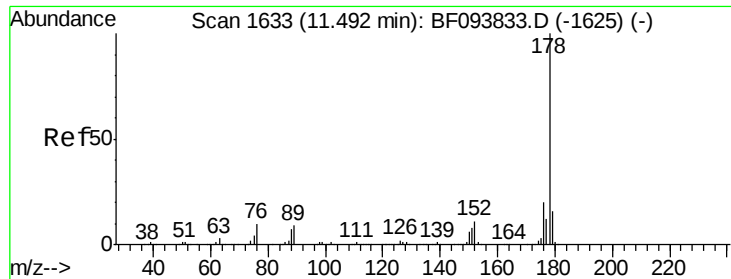


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0





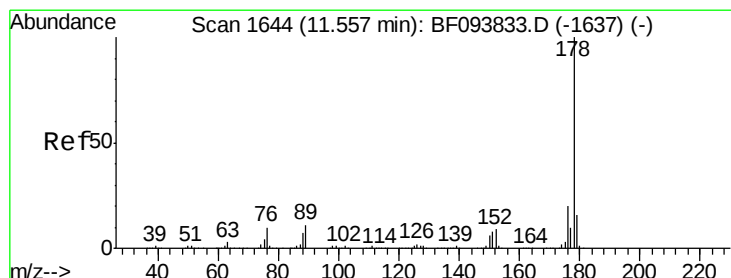
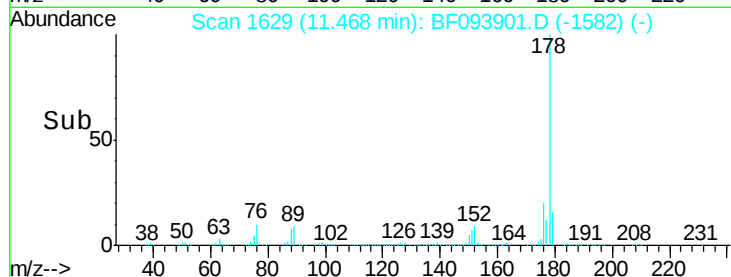
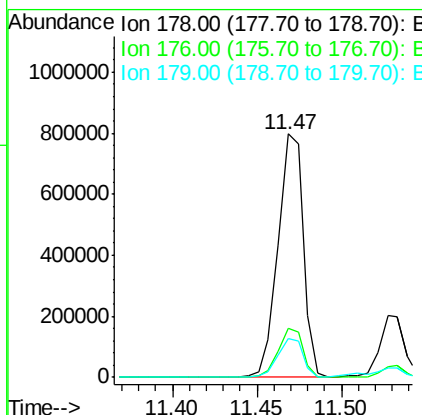
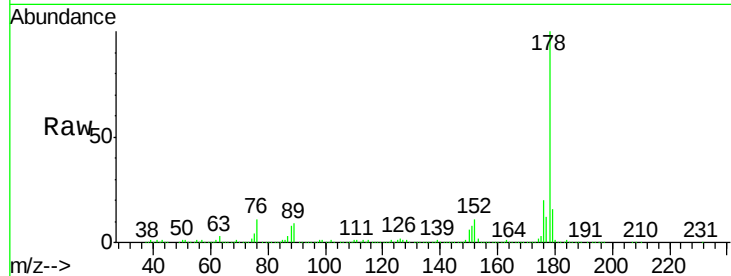
#70
Phenanthrene
Concen: 28.12 ng
RT: 11.47 min Scan# 1629
Delta R.T. -0.02 min
Lab File: BF093901.D
Acq: 24 Mar 2017 11:58

Instrument :
BNA_F
ClientSampleId :
E2-CC8-BASE

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.9	16.2	24.4
179	16.0	12.6	19.0

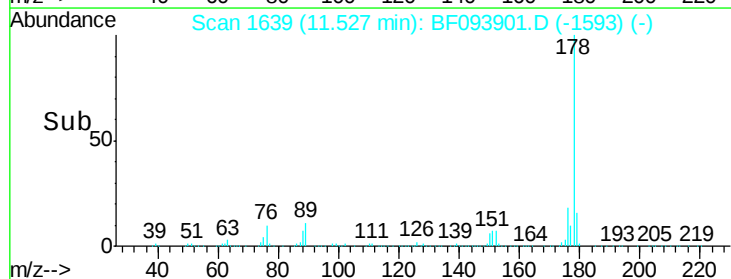
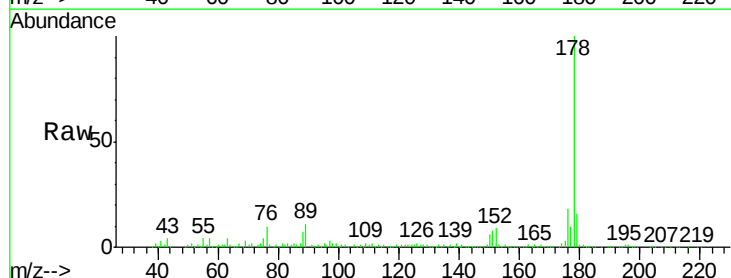
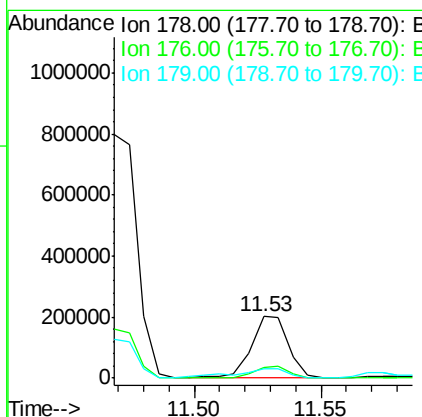
Manual Integrations
APPROVED

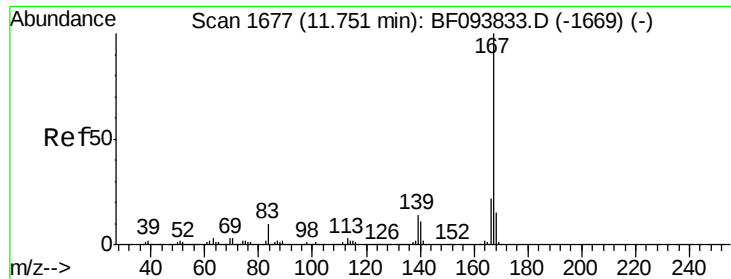
mohammad
3/27/2017 12:55:53 PM



#71
Anthracene
Concen: 6.68 ng
RT: 11.53 min Scan# 1639
Delta R.T. -0.03 min
Lab File: BF093901.D
Acq: 24 Mar 2017 11:58

Tgt Ion	Ratio	Lower	Upper
178	100		
176	17.7	15.8	23.8
179	16.2	12.7	19.1





#72

Carbazole

Concen: 2.35 ng

RT: 11.73 min Scan# 1673

Delta R.T. -0.02 min

Lab File: BF093901.D

Acq: 24 Mar 2017 11:58

Instrument :

BNA_F

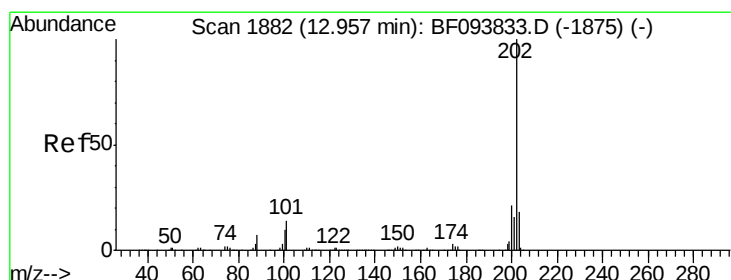
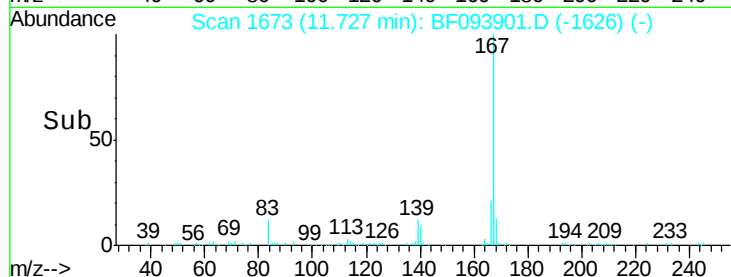
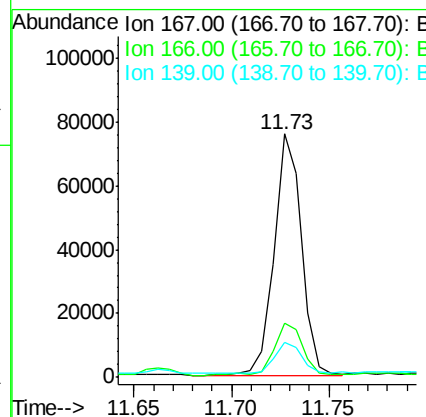
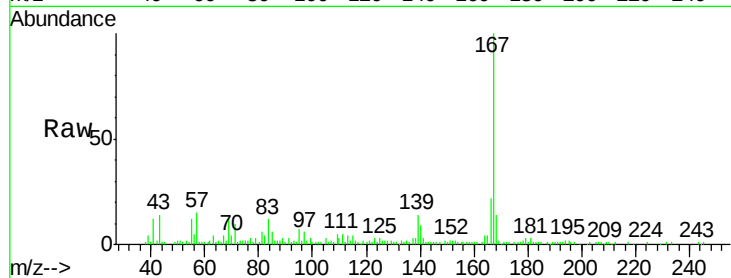
ClientSampleId :

E2-CC8-BASE

Tot Ion:	167	Resp:	73477
Ion Ratio	Lower	Upper	
167	100		
166	22.4	18.1	27.1
139	14.5	11.7	17.5

Manual Integrations
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mohammad
3/27/2017 12:55:53 PM



#74

Fluoranthene

Concen: 27.38 ng

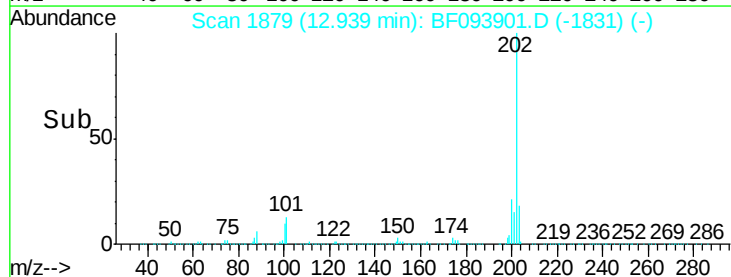
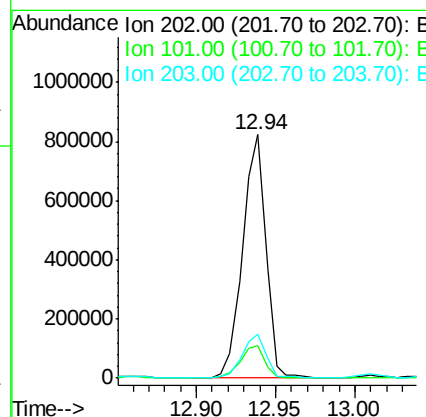
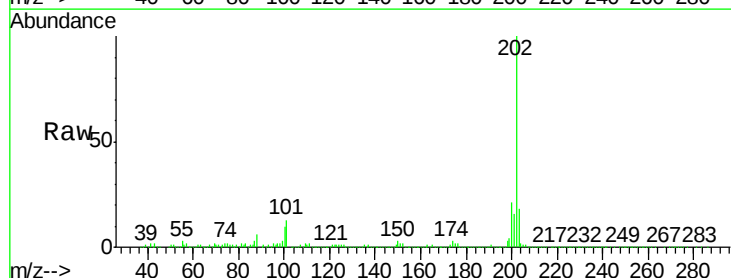
RT: 12.94 min Scan# 1879

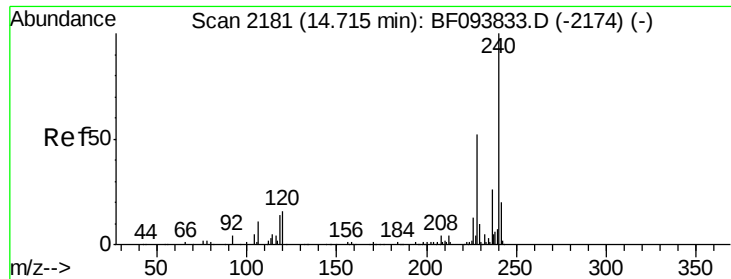
Delta R.T. -0.02 min

Lab File: BF093901.D

Acq: 24 Mar 2017 11:58

Tgt Ion:	202	Resp:	831830
Ion Ratio	Lower	Upper	
202	100		
101	13.2	0.0	33.2
203	17.8	0.0	38.1





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.70 min Scan# 2179

Delta R.T. -0.01 min

Lab File: BF093901.D

Acq: 24 Mar 2017 11:58

Instrument :

BNA_F

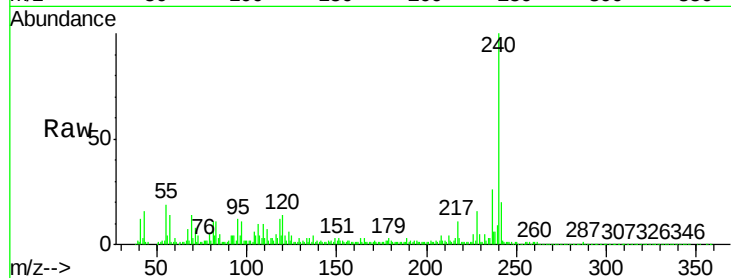
ClientSampleId :

E2-CC8-BASE

Tot Ion	Ratio	Lower	Upper
240	100		
120	14.3	5.8	8.8#
236	25.5	20.5	30.7

Manual Integrations
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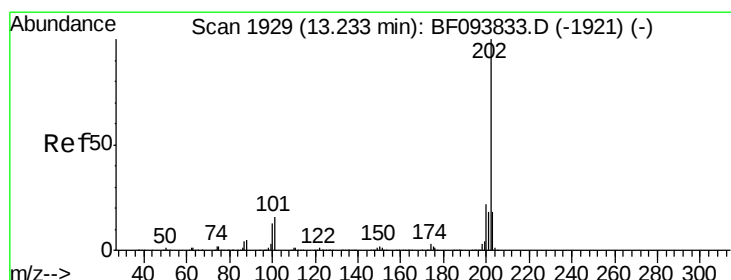
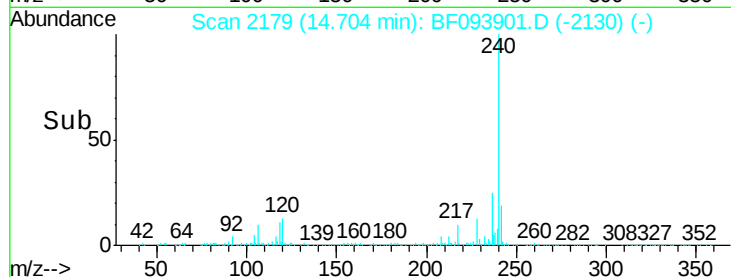
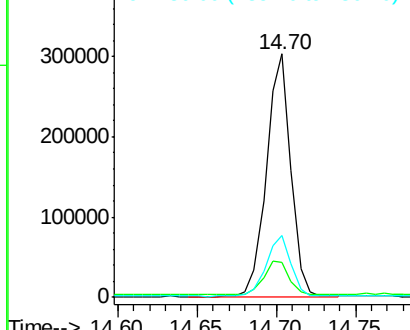
mohammad
3/27/2017 12:55:53 PM



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: 30.44 ng

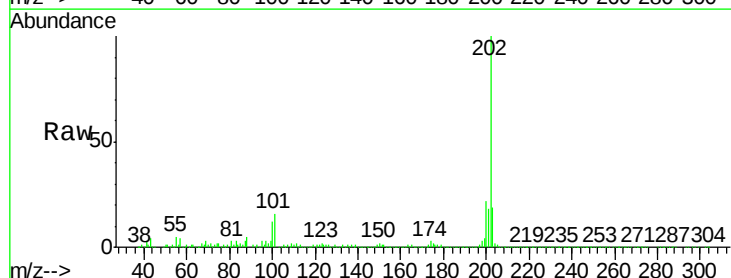
RT: 13.22 min Scan# 1926

Delta R.T. -0.02 min

Lab File: BF093901.D

Acq: 24 Mar 2017 11:58

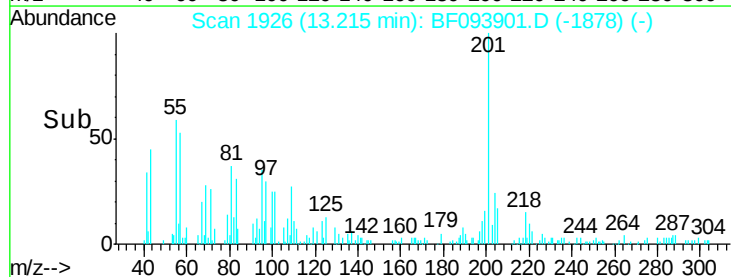
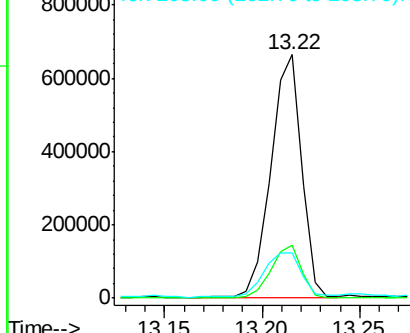
Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.6	17.6	26.4
203	18.7	14.4	21.6

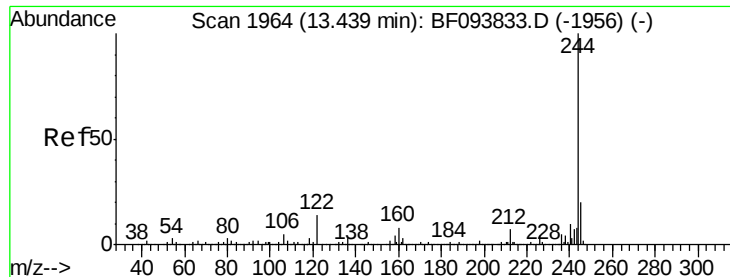


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





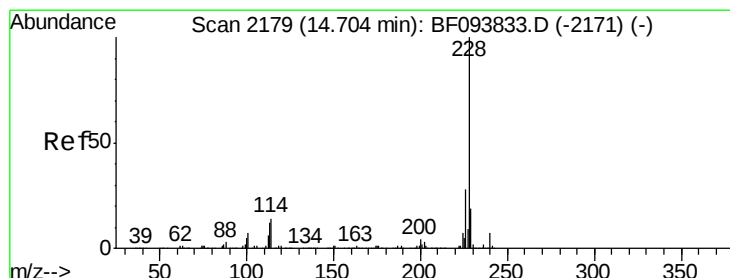
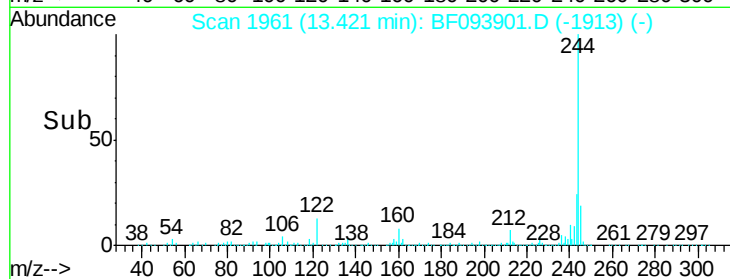
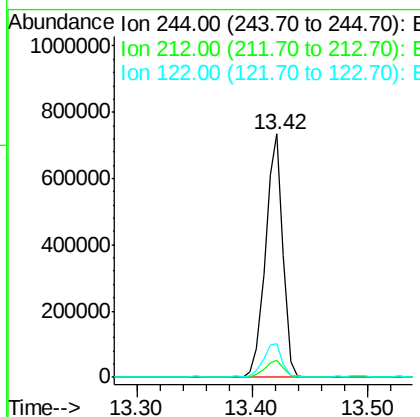
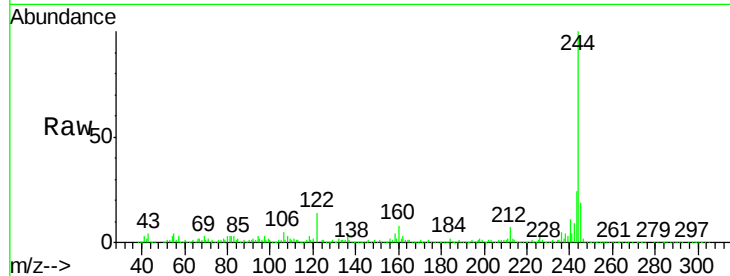
#78
 Terphenyl-d14
 Concen: 53.37 ng
 RT: 13.42 min Scan# 1961
 Delta R.T. -0.02 min
 Lab File: BF093901.D
 Acq: 24 Mar 2017 11:58

Instrument :
 BNA_F
 ClientSampleId :
 E2-CC8-BASE

Tot Ion	Ratio	Lower	Upper
244	100		
212	7.1	6.0	9.0
122	13.8	10.3	15.5

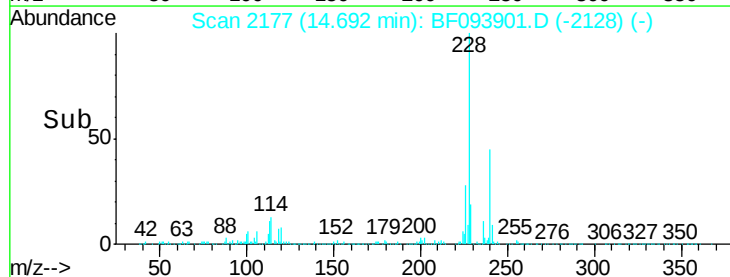
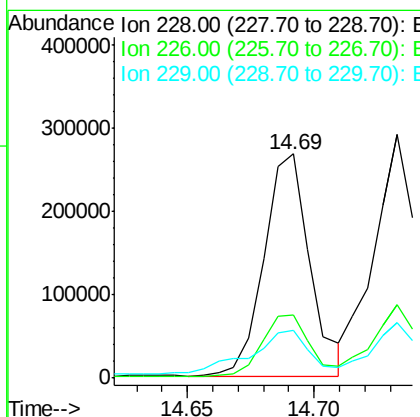
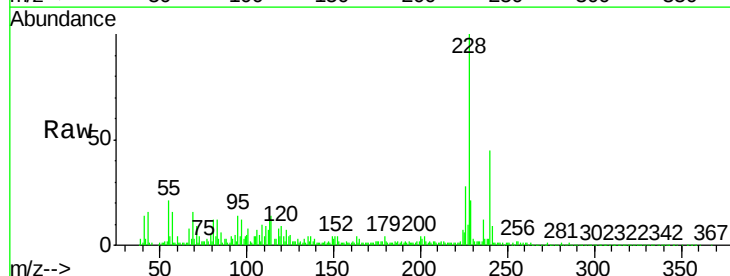
Manual Integrations
 APPROVED

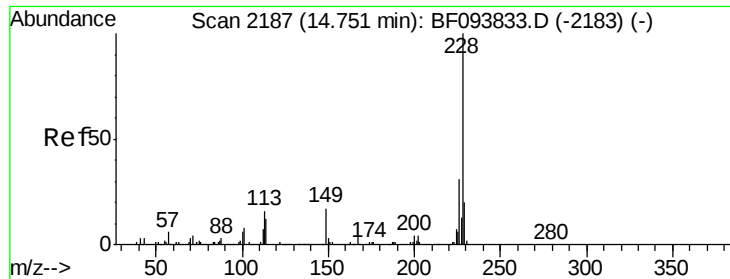
mohammad
 3/27/2017 12:55:53 PM



#80
 Benzo(a)anthracene
 Concen: 17.84 ng
 RT: 14.69 min Scan# 2177
 Delta R.T. -0.01 min
 Lab File: BF093901.D
 Acq: 24 Mar 2017 11:58

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.3	22.6	33.8
229	21.1	16.3	24.5





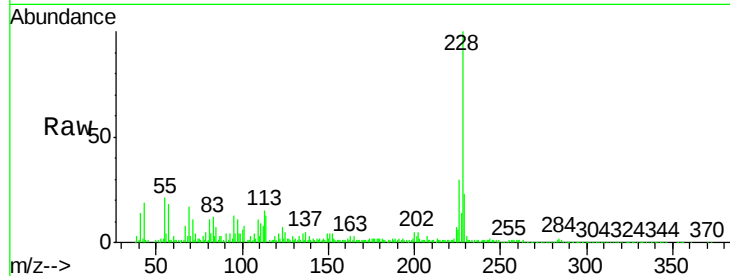
#82
Chrysene
Concen: 18.65 ng
RT: 14.73 min Scan# 2184
Delta R.T. -0.02 min
Lab File: BF093901.D
Acq: 24 Mar 2017 11:58

Instrument :
BNA_F
ClientSampleId :
E2-CC8-BASE

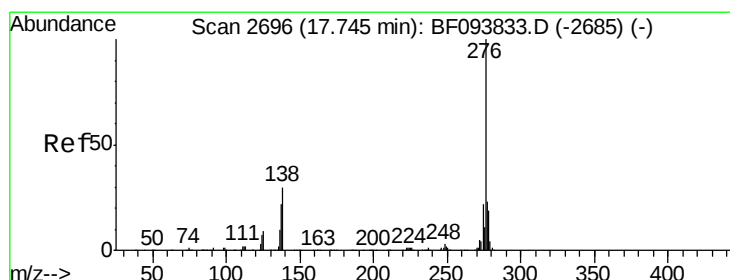
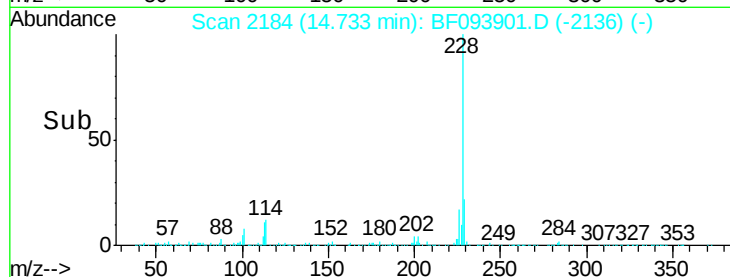
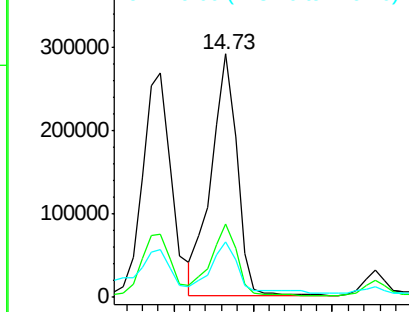
Tot Ion:	228	Resp:	328097
Ion Ratio		Lower	Upper
228	100		
226	30.0	24.9	37.3
229	23.0	15.8	23.6

Manual Integrations
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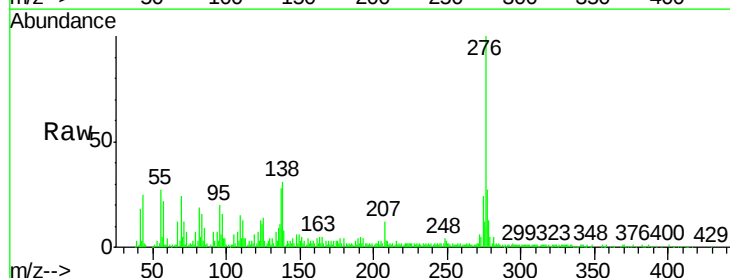


Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E

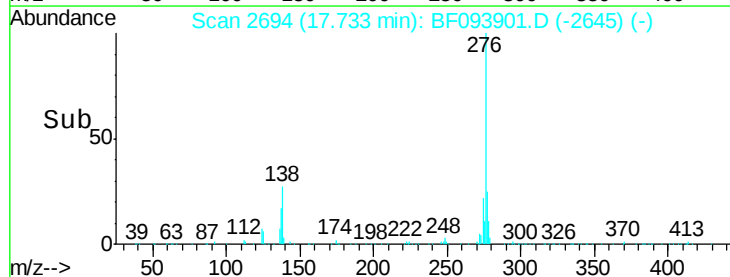
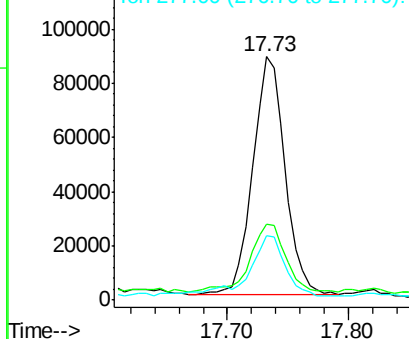


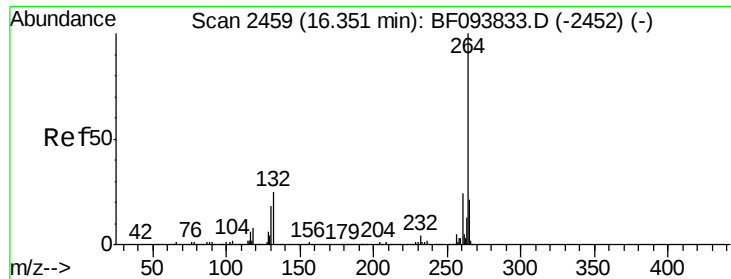
#85
Indeno(1,2,3-cd)pyrene
Concen: 10.75 ng
RT: 17.73 min Scan# 2694
Delta R.T. -0.01 min
Lab File: BF093901.D
Acq: 24 Mar 2017 11:58

Tgt Ion:	276	Resp:	163756
Ion Ratio		Lower	Upper
276	100		
138	30.9	27.8	41.6
277	30.3	20.2	30.4



Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E





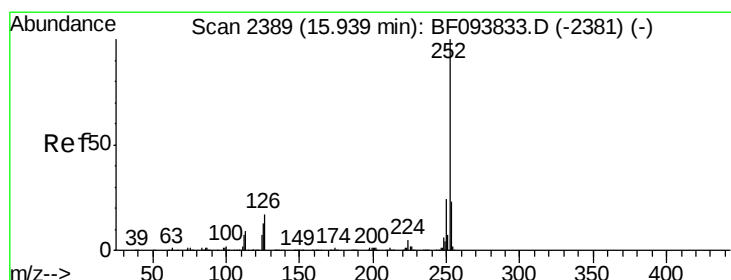
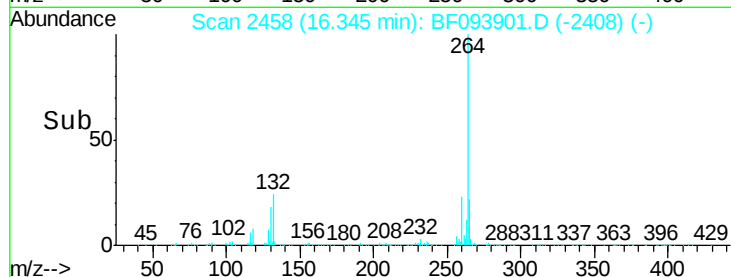
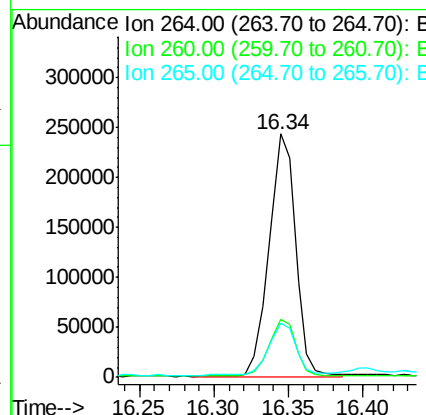
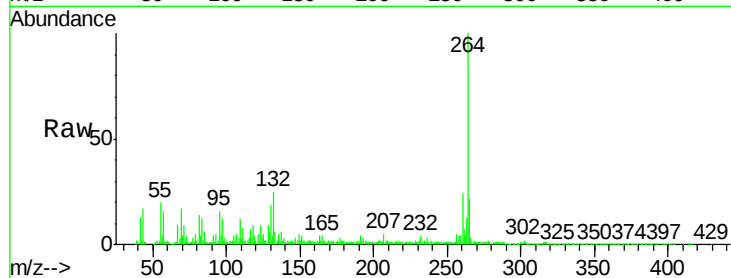
#86
Pervlene-d12
Concen: 20.00 ng
RT: 16.34 min Scan# 2458
Delta R.T. -0.01 min
Lab File: BF093901.D
Acq: 24 Mar 2017 11:58

Instrument :
BNA_F
ClientSampleId :
E2-CC8-BASE

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.0	19.5	29.3
265	22.5	17.2	25.8

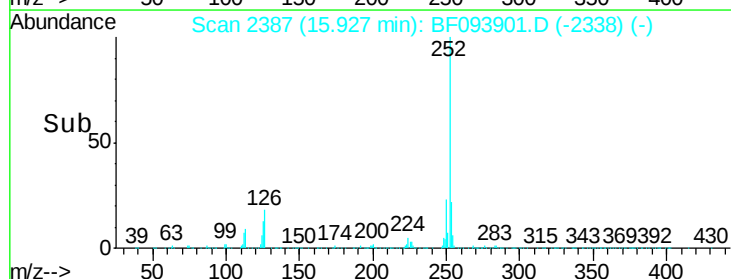
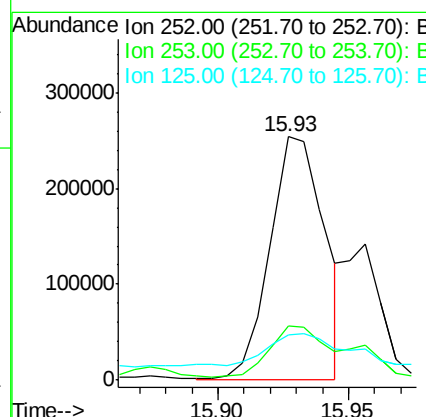
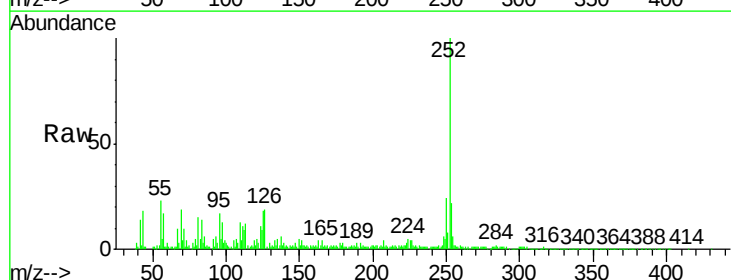
Manual Integrations
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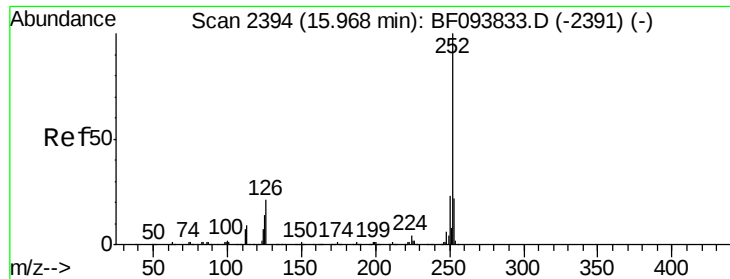
mohammad
3/27/2017 12:55:53 PM



#87
Benzo(b)fluoranthene
Concen: 20.34 ng m
RT: 15.93 min Scan# 2387
Delta R.T. -0.01 min
Lab File: BF093901.D
Acq: 24 Mar 2017 11:58

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.4	18.1	27.1
125	18.5	9.8	14.8#





#88

Benzo(k)fluoranthene

Concen: 7.96 ng

RT: 15.96 min Scan# 2392

Delta R.T. -0.01 min

Lab File: BF093901.D

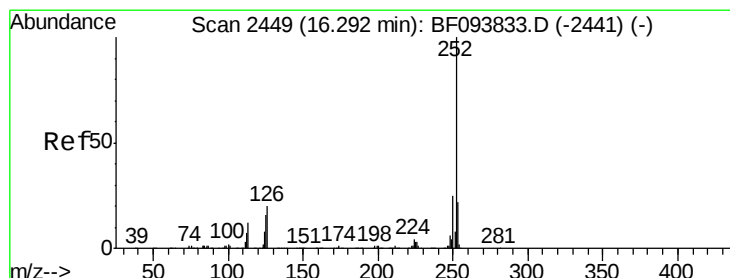
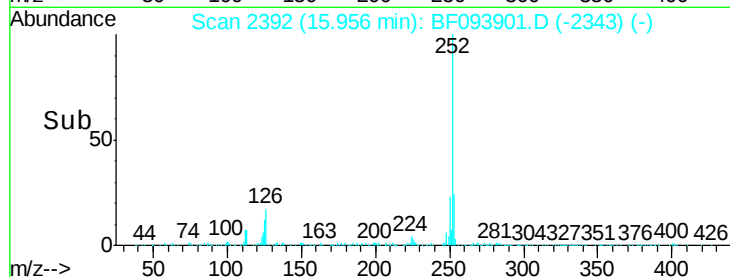
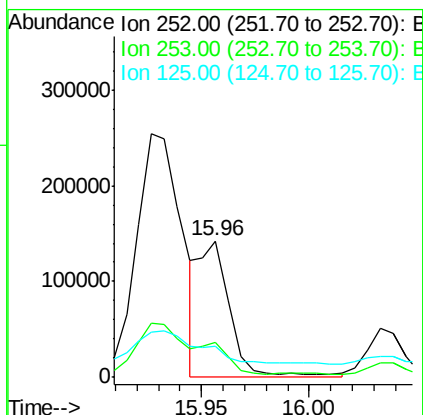
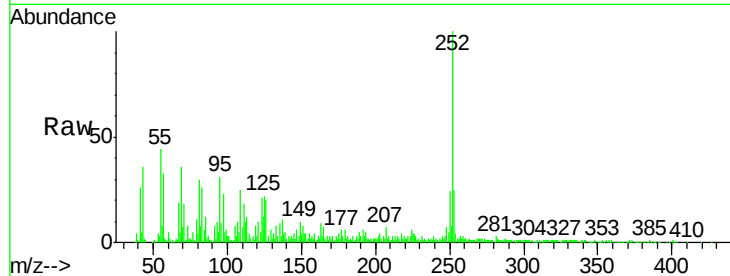
Acq: 24 Mar 2017 11:58

Instrument :
BNA_F
ClientSampleId :
E2-CC8-BASE

Tot Ion	Ratio	Lower	Upper
252	100		
253	25.2	18.4	27.6
125	22.3	13.1	19.7

Manual Integrations
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mohammad
3/27/2017 12:55:53 PM



#89

Benzo(a)pyrene

Concen: 16.05 ng

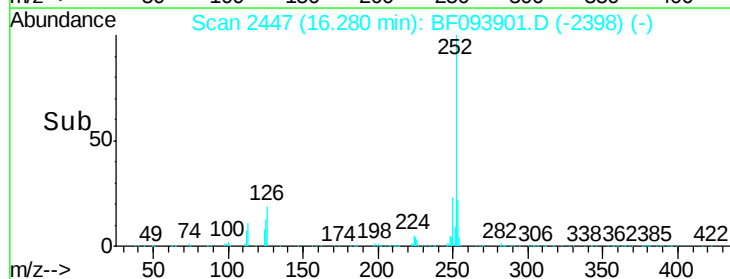
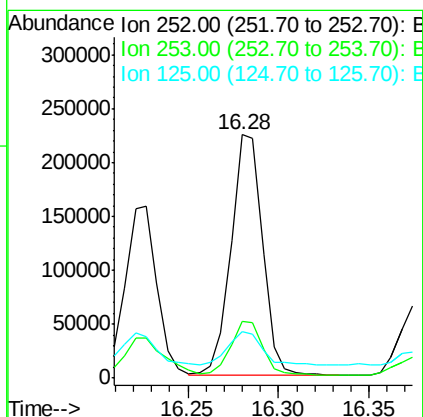
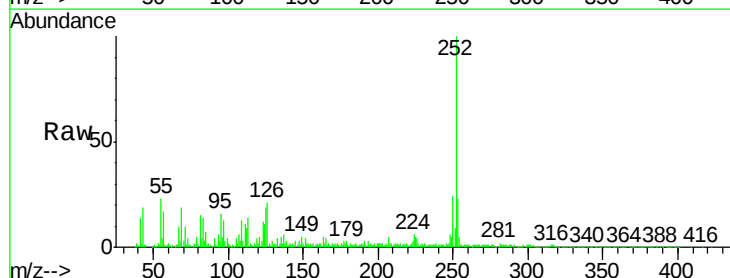
RT: 16.28 min Scan# 2447

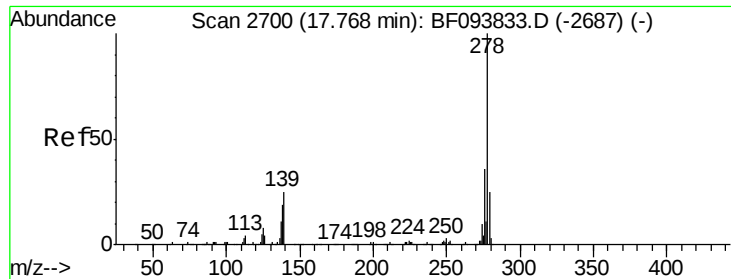
Delta R.T. -0.01 min

Lab File: BF093901.D

Acq: 24 Mar 2017 11:58

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.5	17.5	26.3
125	19.2	11.0	16.4





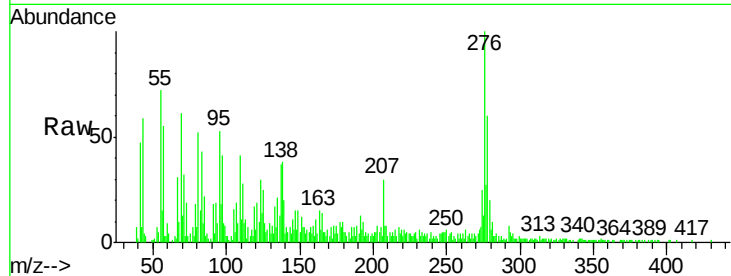
#90
Dibenzo(a,h)anthracene
Concen: 3.00 ng
RT: 17.75 min Scan# 2697
Delta R.T. -0.02 min
Lab File: BF093901.D
Acq: 24 Mar 2017 11:58

Instrument :
BNA_F
ClientSampleId :
E2-CC8-BASE

Tot Ion	Ratio	Lower	Upper
278	100		
139	34.0	16.6	24.8
279	33.2	19.3	28.9

Manual Integrations
APPROVED

mohammad
3/27/2017 12:55:53 PM

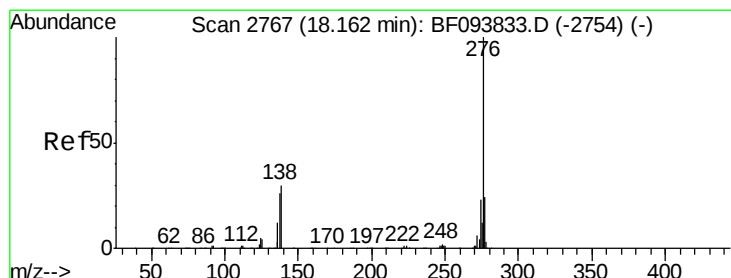
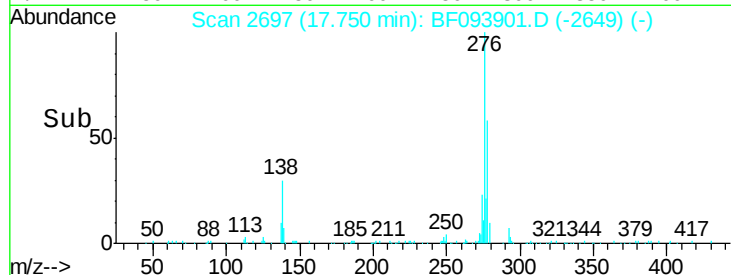
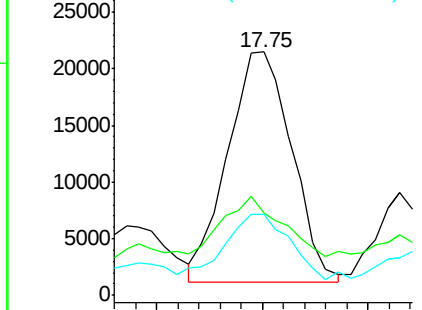


Abundance

Ion 278.00 (277.70 to 278.70): E

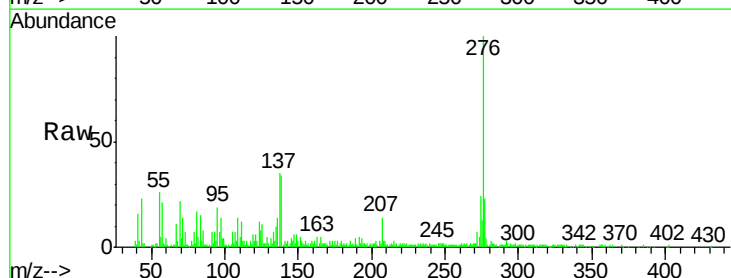
Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#91
Benzo(g,h,i)perylene
Concen: 11.48 ng
RT: 18.14 min Scan# 2764
Delta R.T. -0.02 min
Lab File: BF093901.D
Acq: 24 Mar 2017 11:58

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.1	18.6	28.0
138	34.0	25.4	38.0



Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

