

Data Path : Z:\HPCHEM1\BNA F\DATA\BF022717\
 Data File : BF093231.D
 Acq On : 28 Feb 2017 3:32
 Operator : SJ/MA
 Sample : I1972-12 5X
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 E2-B1-SW-5

Manual Integrations
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mohammad
 2/28/2017 2:35:44 PM

Quant Time: Feb 28 05:01:17 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF013017.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 28 00:51:02 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.82	152	170763	20.00	ng	0.00
21) Naphthalene-d8	8.11	136	603782	20.00	ng	0.00
38) Acenaphthene-d10	9.86	164	259516	20.00	ng	0.00
63) Phenanthrene-d10	11.34	188	393773	20.00	ng	0.00
75) Chrysene-d12	13.99	240	309336	20.00	ng	0.00
86) Perylene-d12	15.41	264	265915	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.41	112	186933	18.78	ng	0.00
7) Phenol-d6	6.46	99	238536	18.63	ng	-0.01
23) Nitrobenzene-d5	7.39	82	126776	11.69	ng	0.00
41) 2,4,6-Tribromophenol	10.65	330	28917	15.41	ng	-0.01
44) 2-Fluorobiphenyl	9.17	172	216594	15.12	ng	-0.01
78) Terphenyl-d14	12.92	244	153381	11.65	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.12	128	160383	5.24	ng	100
37) 2-Methylnaphthalene	8.82	142	70392	3.58	ng	96
48) Acenaphthylene	9.72	152	101048	3.98	ng	96
51) Acenaphthene	9.89	154	149890	9.87	ng	95
54) Dibenzofuran	10.06	168	177949	8.76	ng	90
57) Fluorene	10.41	166	160642m	10.28	ng	
70) Phenanthrene	11.37	178	1489750	66.04	ng	99
71) Anthracene	11.42	178	436284	19.26	ng	98
72) Carbazole	11.58	167	185574	8.57	ng	97
74) Fluoranthene	12.57	202	1657742	71.24	ng	94
77) Pyrene	12.80	202	1486895	64.23	ng	99
80) Benzo(a)anthracene	13.99	228	780782	41.27	ng	97
82) Chrysene	14.02	228	677446	38.24	ng	98
85) Indeno(1,2,3-cd)pyrene	16.82	276	275234	20.06	ng	97
87) Benzo(b)fluoranthene	15.01	252	760382m	43.44	ng	
88) Benzo(k)fluoranthene	15.04	252	280210m	18.54	ng	
89) Benzo(a)pyrene	15.36	252	497628	32.87	ng	# 94
90) Dibenzo(a,h)anthracene	16.82	278	76307m	6.24	ng	
91) Benzo(a,h,i)perylene	17.24	276	233352	18.88	ng	# 93

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

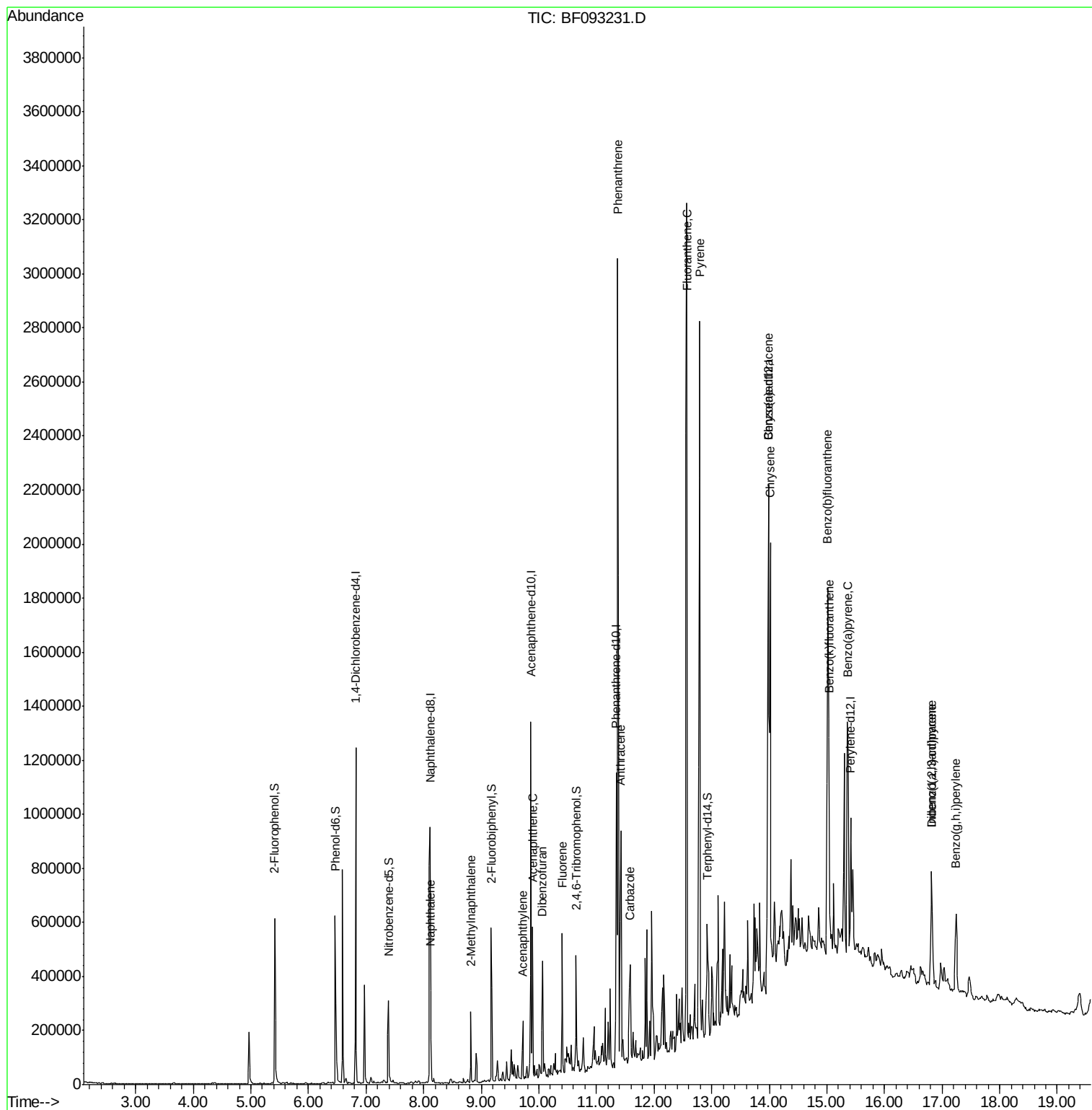
Data Path : Z:\HPCHEM1\BNA F\DATA\BF022717\
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ALS Vial : 20 Sample Multiplier: 1

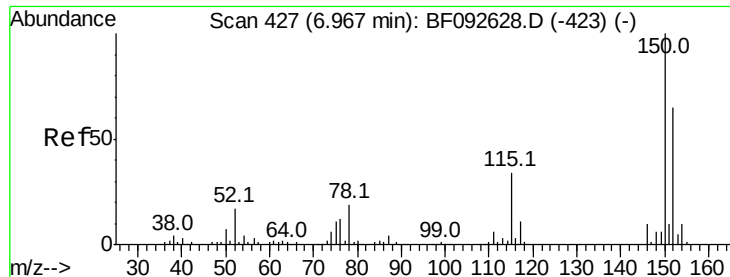
Instrument :
BNA_F
ClientSampleId :
E2-B1-SW-5

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Quant Time: Feb 28 05:01:17 2017
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF013017.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 28 00:51:02 2017
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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.82 min Scan# 414

Delta R.T. -0.00 min

Lab File: BF093231.D

Acq: 28 Feb 2017 3:32

Instrument :

BNA_F

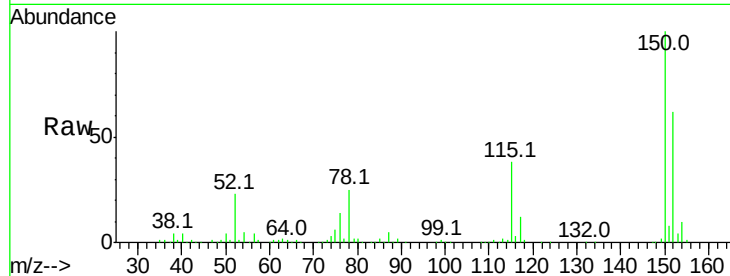
ClientSampleId :

E2-B1-SW-5

Tot Ion:	152	Resp:	170763
Ion Ratio	Lower	Upper	
152	100		
150	161.3	124.9	187.3
115	61.8	46.0	69.0

Manual Integrations
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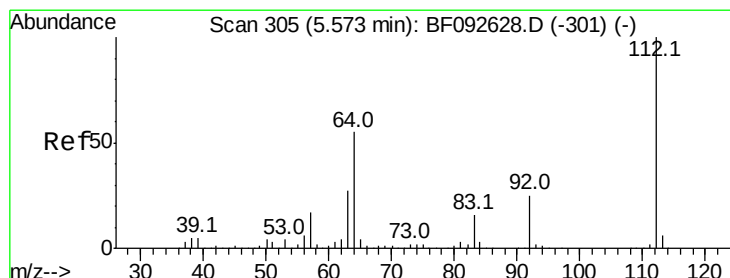
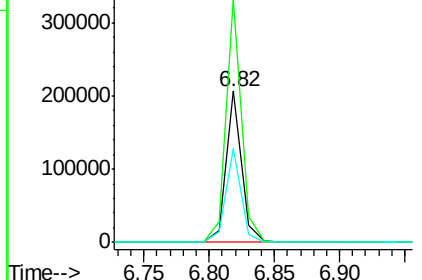
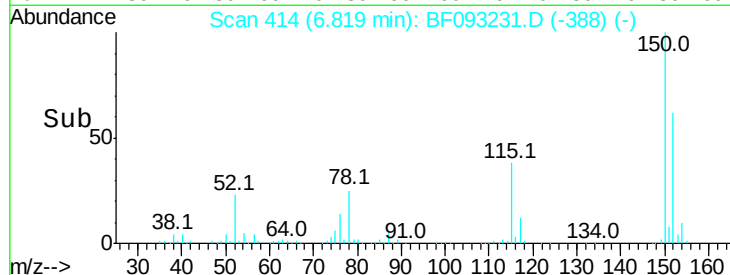
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Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol

Concen: 18.78 ng

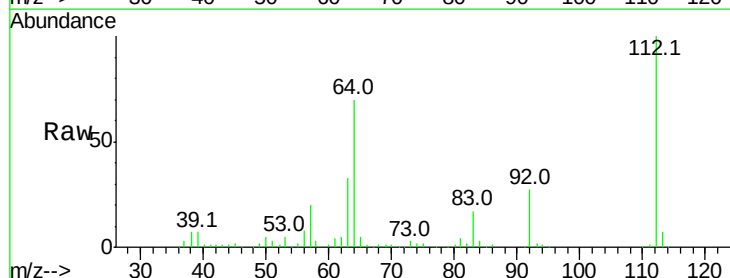
RT: 5.41 min Scan# 291

Delta R.T. -0.00 min

Lab File: BF093231.D

Acq: 28 Feb 2017 3:32

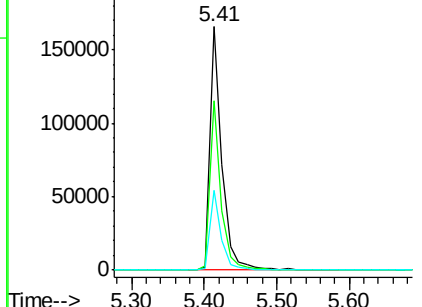
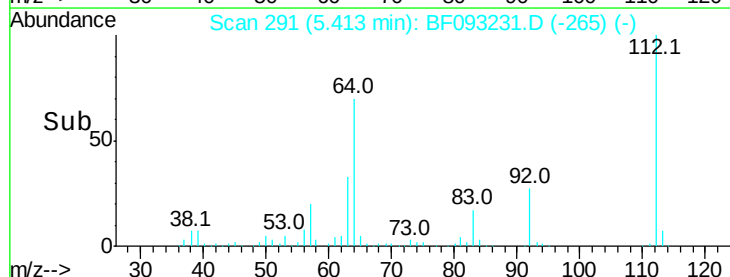
Tgt Ion:	112	Resp:	186933
Ion Ratio	Lower	Upper	
112	100		
64	69.8	46.1	69.1#
63	33.0	23.8	35.6

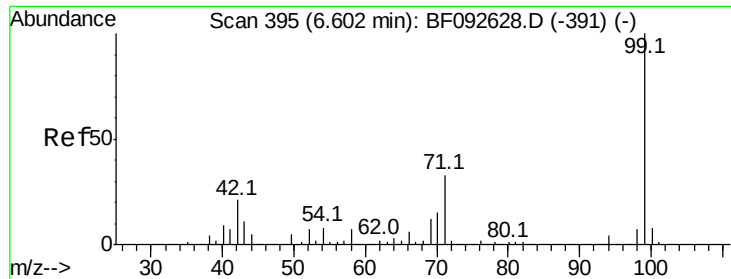


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 18.63 ng

RT: 6.46 min Scan# 383

Delta R.T. -0.01 min

Lab File: BF093231.D

Acq: 28 Feb 2017 3:32

Instrument :

BNA_F

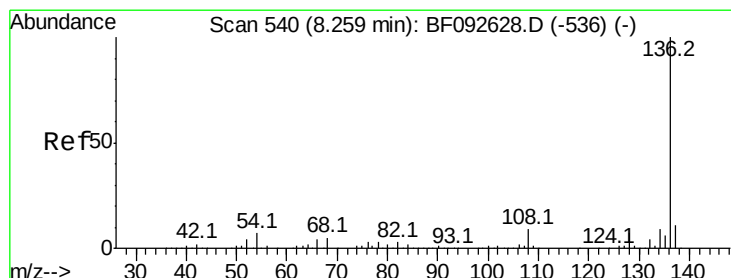
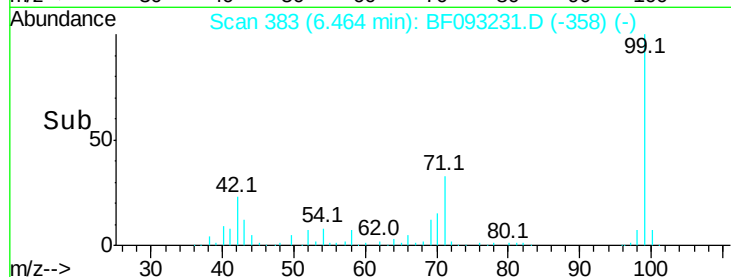
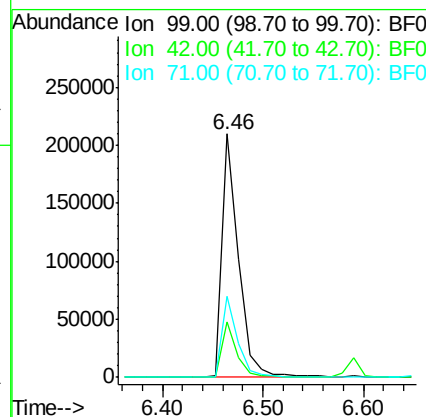
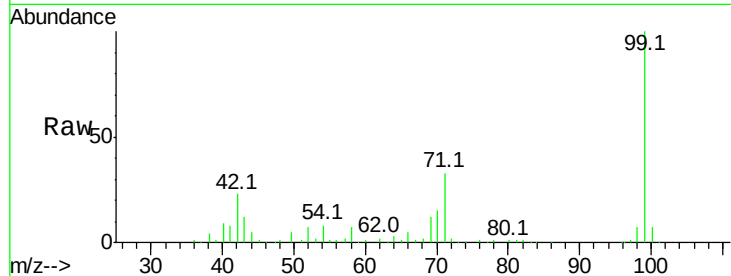
ClientSampleId :

E2-B1-SW-5

Tot Ion	Ion	Ratio	Resp	Lower	Upper
99	100		238536		
42	22.7	15.6	23.4		
71	33.1	27.5	41.3		

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#21

Naphthalene-d8

Concen: 20.00 ng

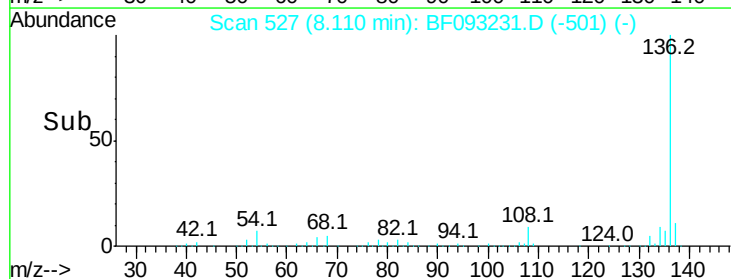
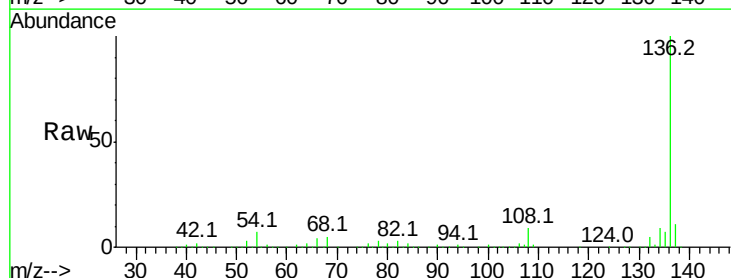
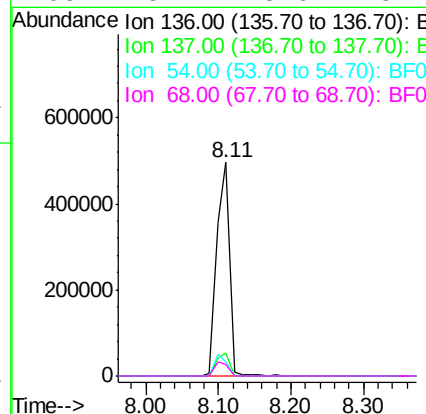
RT: 8.11 min Scan# 527

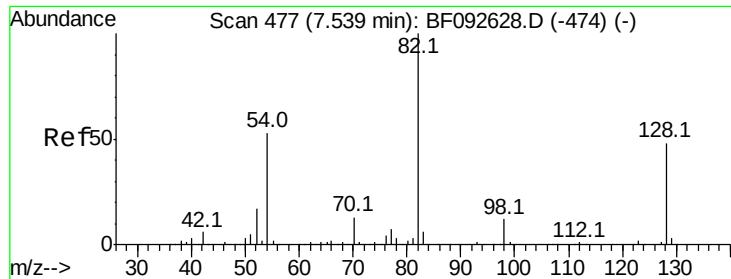
Delta R.T. -0.00 min

Lab File: BF093231.D

Acq: 28 Feb 2017 3:32

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
136	100		603782		
137	10.7	8.4	12.6		
54	6.8	4.5	6.7#		
68	5.2	3.6	5.4		





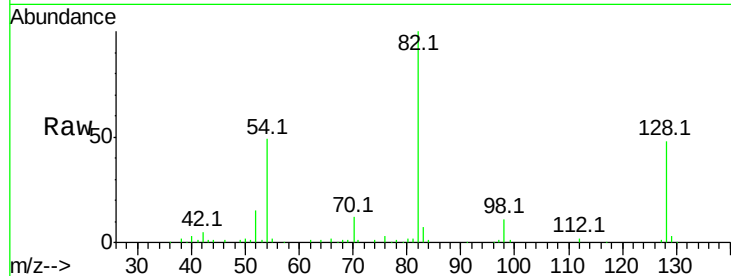
#23
 Nitrobenzene-d5
 Concen: 11.69 ng
 RT: 7.39 min Scan# 464
 Delta R.T. -0.00 min
 Lab File: BF093231.D
 Acq: 28 Feb 2017 3:32

Instrument :
 BNA_F
 ClientSampleId :
 E2-B1-SW-5

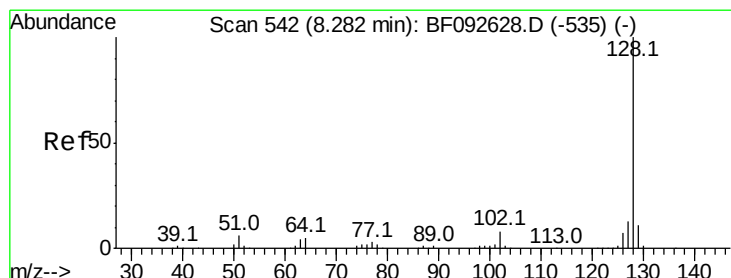
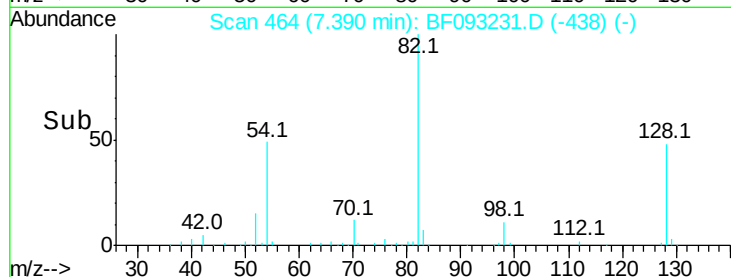
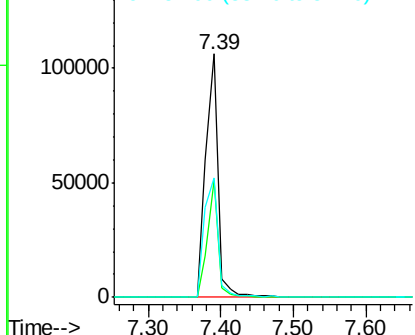
Tot Ion	Ratio	Resp	Lower	Upper
82	100			
128	48.1	34.6	52.0	
54	48.8	39.5	59.3	

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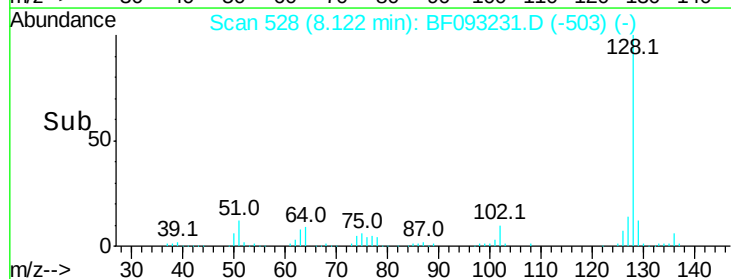
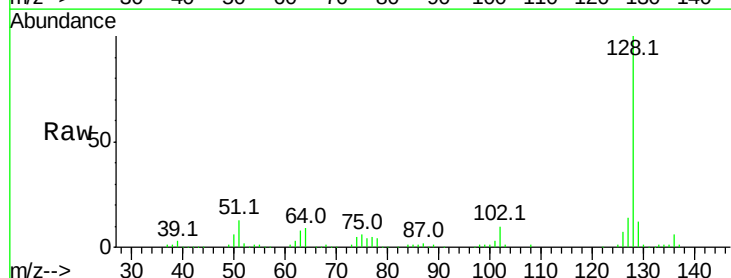
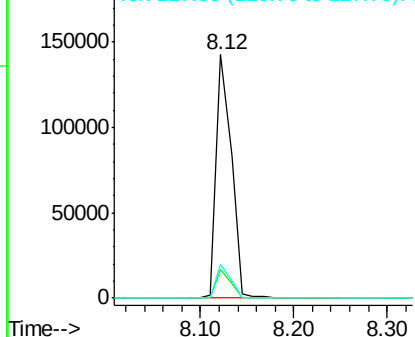
Abundance Ion 82.00 (81.70 to 82.70): BF0
 Ion 128.00 (127.70 to 128.70): E
 Ion 54.00 (53.70 to 54.70): BF0

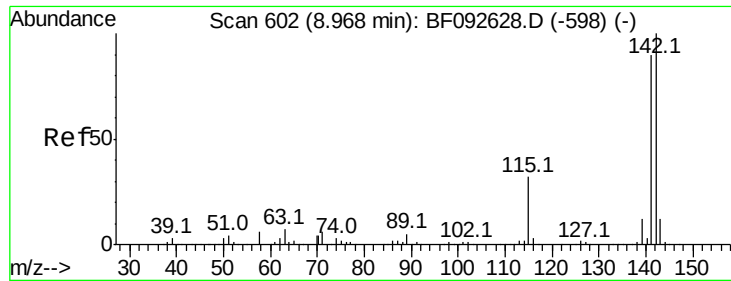


#31
 Naphthalene
 Concen: 5.24 ng
 RT: 8.12 min Scan# 528
 Delta R.T. -0.01 min
 Lab File: BF093231.D
 Acq: 28 Feb 2017 3:32

Tgt Ion	Ratio	Resp	Lower	Upper
128	100			
129	11.9	9.5	14.3	
127	13.6	10.8	16.2	

Abundance Ion 128.00 (127.70 to 128.70): E
 Ion 129.00 (128.70 to 129.70): E
 Ion 127.00 (126.70 to 127.70): E





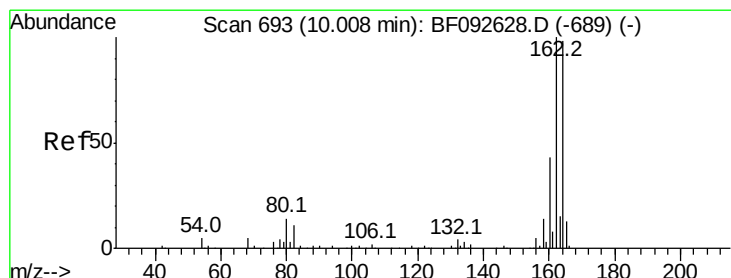
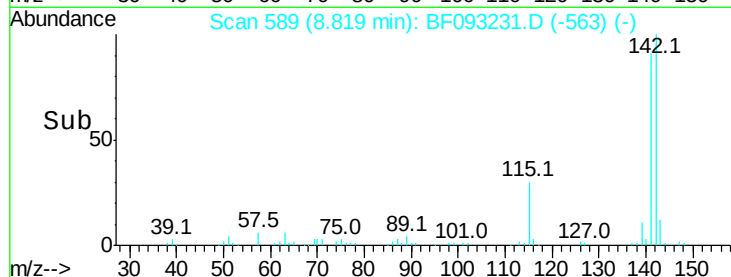
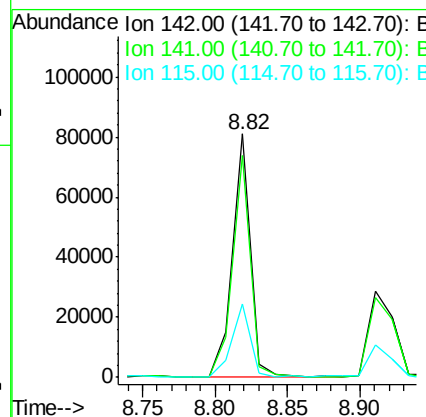
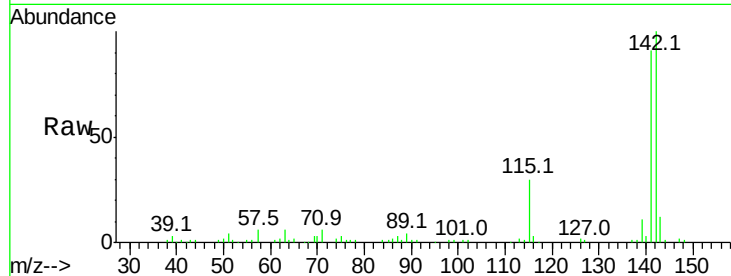
#37
2-Methylnaphthalene
Concen: 3.58 ng
RT: 8.82 min Scan# 589
Delta R.T. -0.00 min
Lab File: BF093231.D
Acq: 28 Feb 2017 3:32

Instrument :
BNA_F
ClientSampled :
E2-B1-SW-5

Tot Ion	Ratio	Lower	Upper
142	100		
141	91.3	71.0	106.6
115	30.3	28.3	42.5

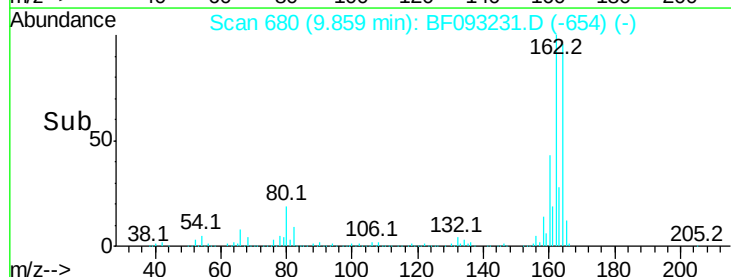
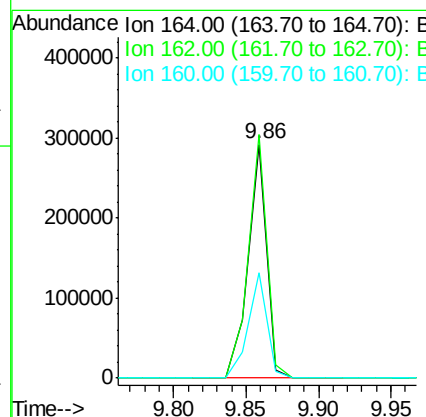
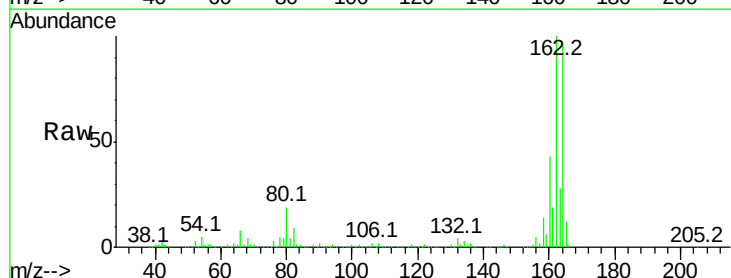
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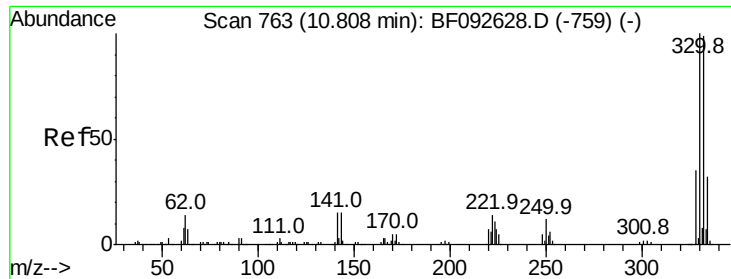
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.86 min Scan# 680
Delta R.T. -0.00 min
Lab File: BF093231.D
Acq: 28 Feb 2017 3:32

Tgt Ion	Ratio	Lower	Upper
164	100		
162	104.1	80.2	120.2
160	44.9	36.9	55.3





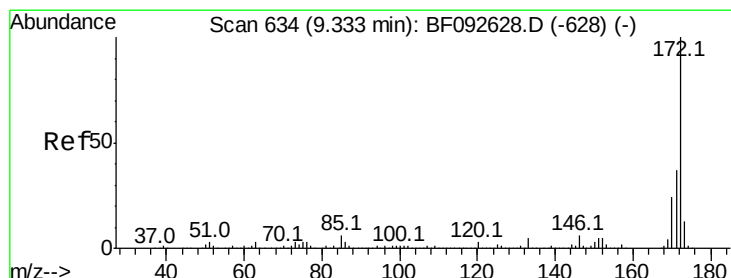
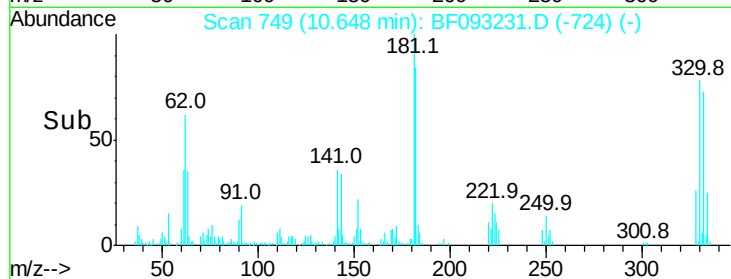
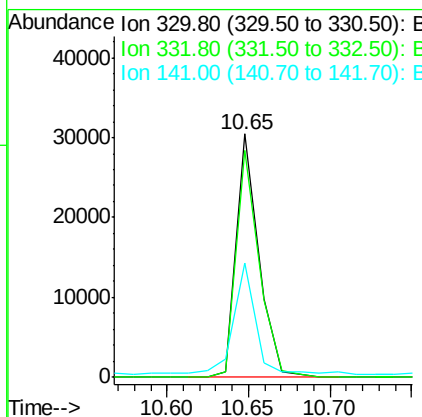
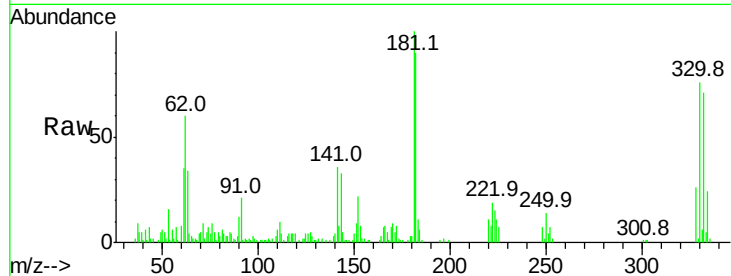
#41
 2,4,6-Tribromophenol
 Concen: 15.41 ng
 RT: 10.65 min Scan# 749
 Delta R.T. -0.01 min
 Lab File: BF093231.D
 Acq: 28 Feb 2017 3:32

Instrument :
 BNA_F
 ClientSampleId :
 E2-B1-SW-5

Tot Ion	Ratio	Resp	Lower	Upper
330	100	28917		
332	94.5	77.4	116.2	
141	48.4	34.1	51.1	

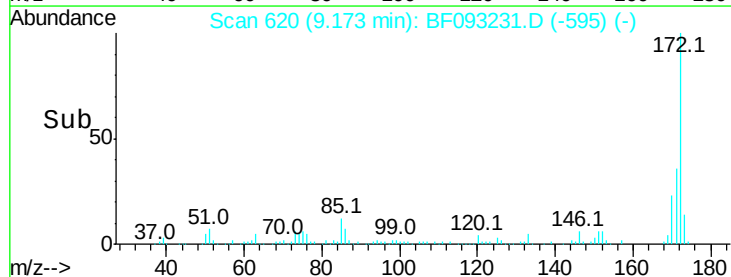
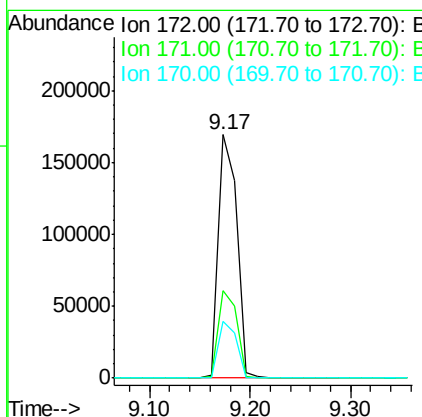
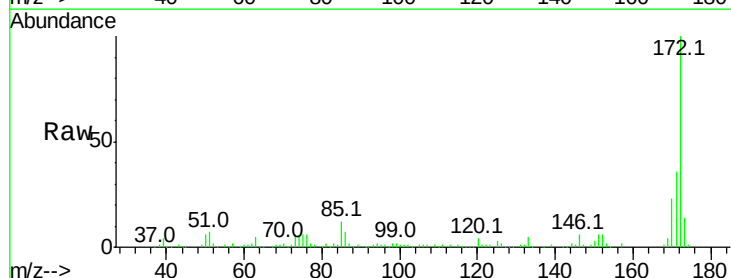
Manual Integrations
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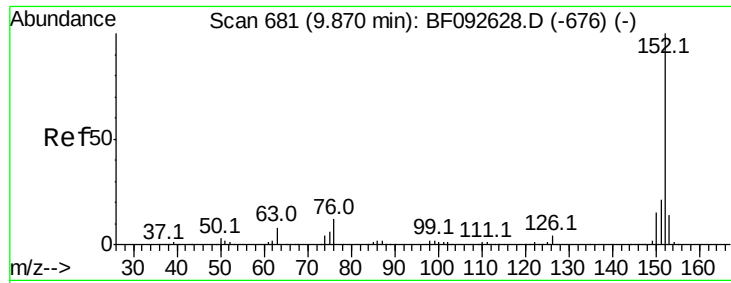
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#44
 2-Fluorobiphenyl
 Concen: 15.12 ng
 RT: 9.17 min Scan# 620
 Delta R.T. -0.01 min
 Lab File: BF093231.D
 Acq: 28 Feb 2017 3:32

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	216594		
171	35.7	29.4	44.0	
170	23.4	20.2	30.4	





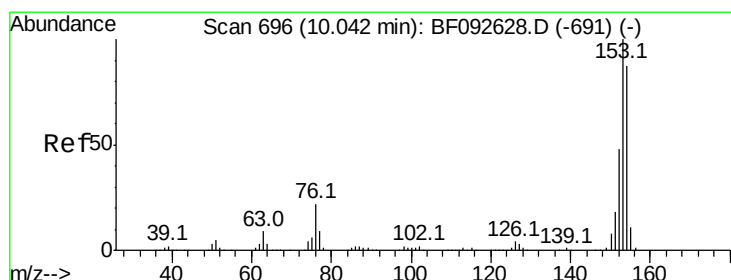
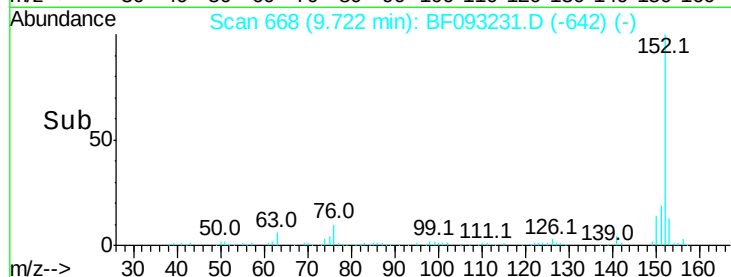
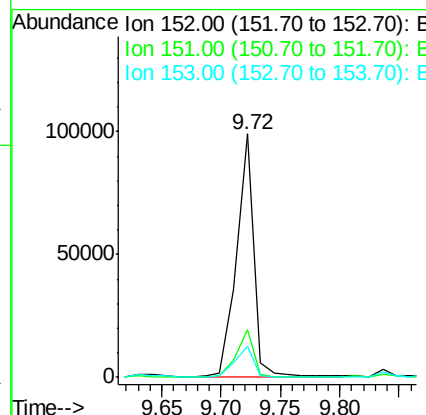
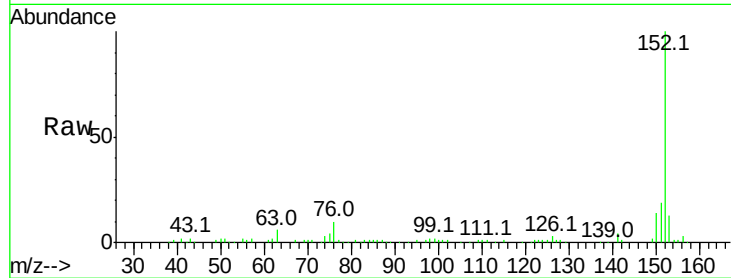
#48
Acenaphthylene
Concen: 3.98 ng
RT: 9.72 min Scan# 668
Delta R.T. -0.00 min
Lab File: BF093231.D
Acq: 28 Feb 2017 3:32

Instrument :
BNA_F
ClientSampleId :
E2-B1-SW-5

Tot Ion	Ratio	Lower	Upper
152	100		
151	19.4	16.9	25.3
153	12.8	11.4	17.2

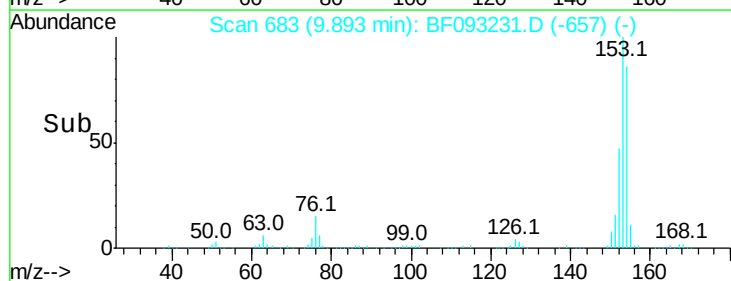
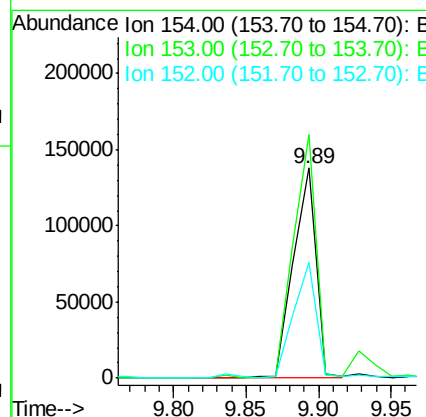
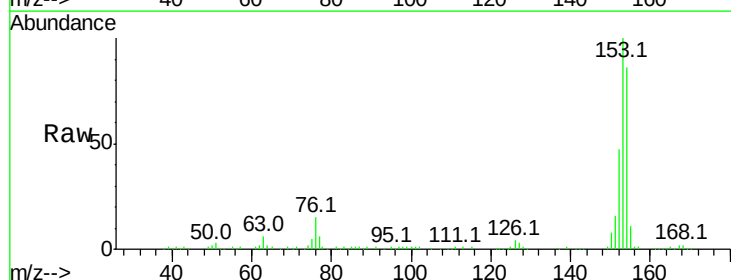
Manual Integrations
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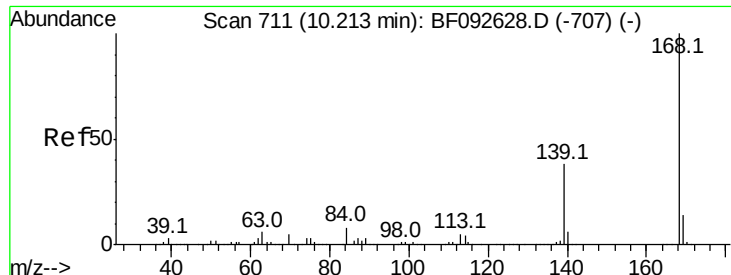
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#51
Acenaphthene
Concen: 9.87 ng
RT: 9.89 min Scan# 683
Delta R.T. -0.00 min
Lab File: BF093231.D
Acq: 28 Feb 2017 3:32

Tgt Ion	Ratio	Lower	Upper
154	100		
153	116.0	88.6	133.0
152	55.0	41.6	62.4





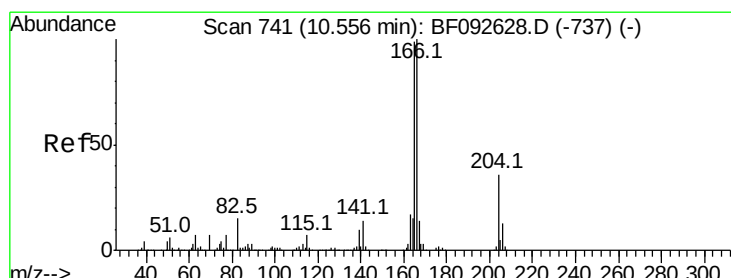
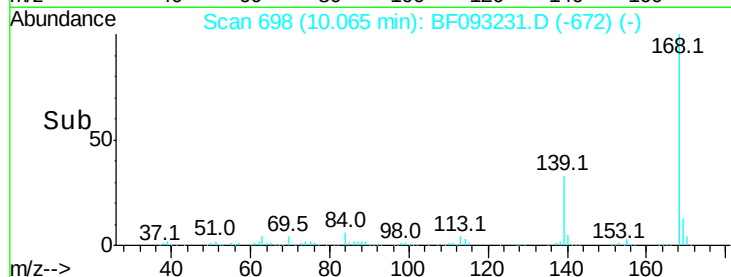
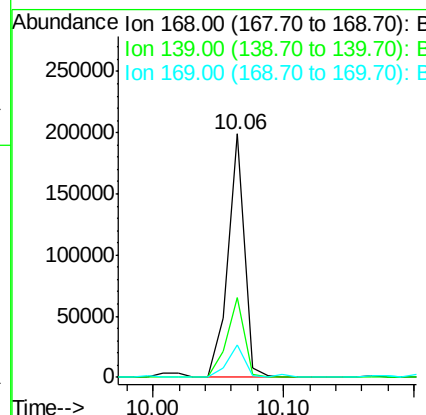
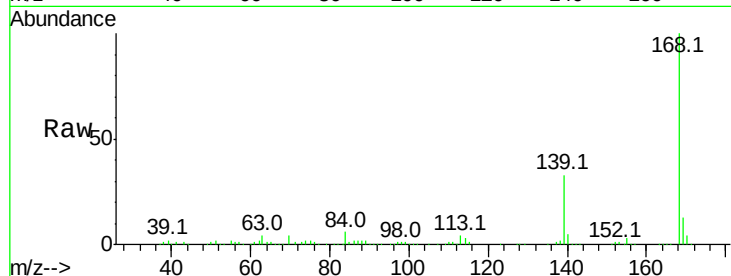
#54
Dibenzenofuran
Concen: 8.76 ng
RT: 10.06 min Scan# 698
Delta R.T. -0.00 min
Lab File: BF093231.D
Acq: 28 Feb 2017 3:32

Instrument :
BNA_F
ClientSampleId :
E2-B1-SW-5

Tot Ion	Ratio	Resp	Lower	Upper
168	100	177949		
139	32.7		32.6	49.0
169	13.5		11.3	16.9

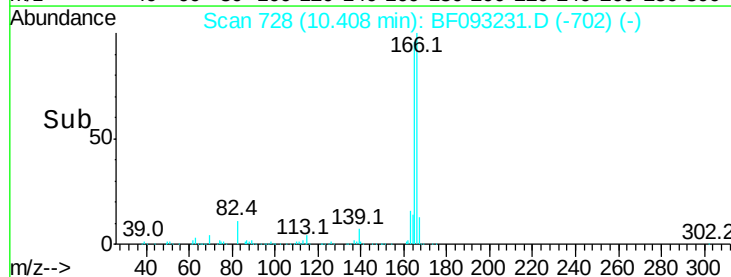
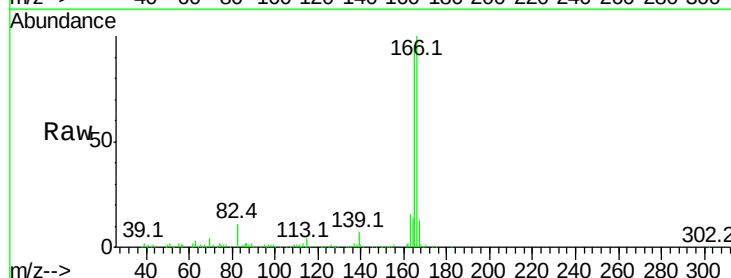
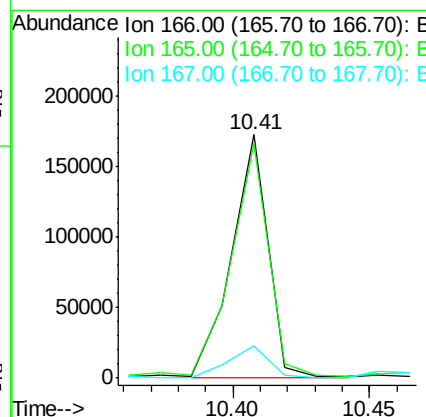
Manual Integrations
APPROVED

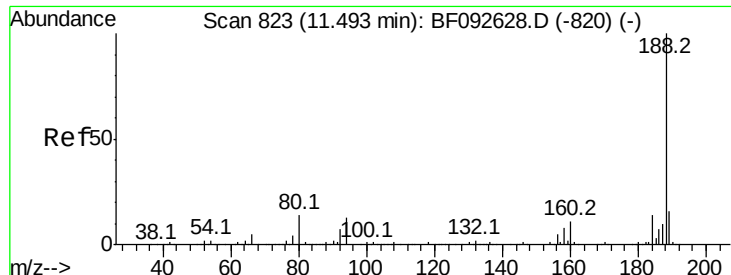
mohammad
2/28/2017 2:35:44 PM



#57
Fluorene
Concen: 10.28 ng m
RT: 10.41 min Scan# 728
Delta R.T. -0.00 min
Lab File: BF093231.D
Acq: 28 Feb 2017 3:32

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	160642		
165	96.4		77.8	116.8
167	13.2		10.8	16.2





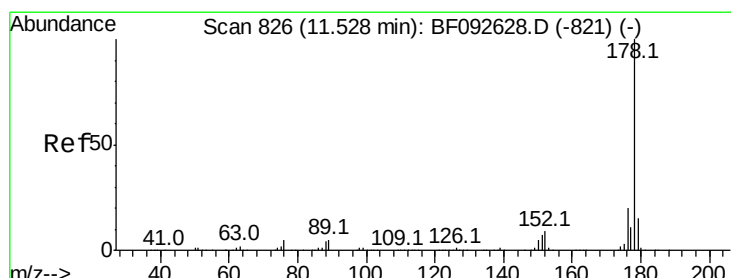
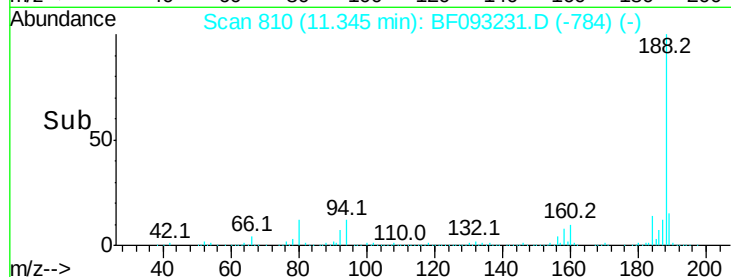
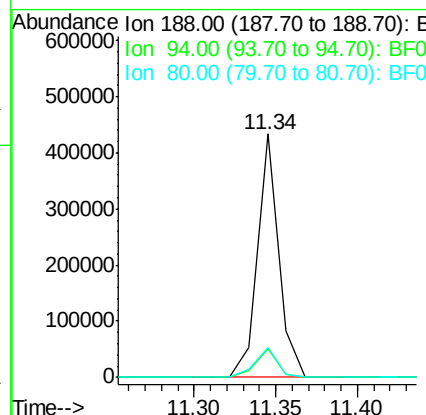
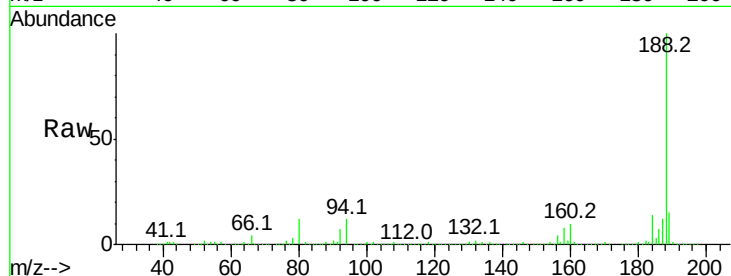
#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.34 min Scan# 810
 Delta R.T. -0.00 min
 Lab File: BF093231.D
 Acq: 28 Feb 2017 3:32

Instrument :
 BNA_F
 ClientSampleId :
 E2-B1-SW-5

Tot Ion	Ratio	Resp	Lower	Upper
188	100	393773		
94	11.6		10.0	15.0
80	12.2		11.2	16.8

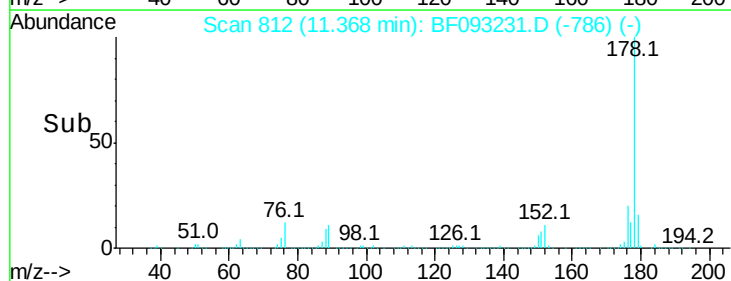
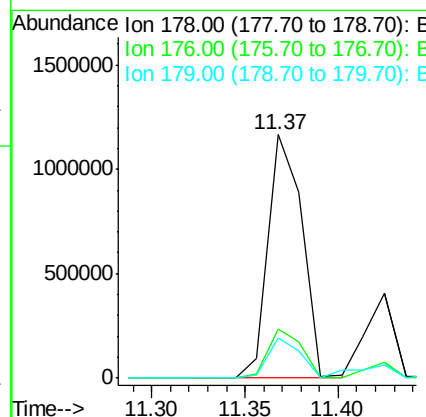
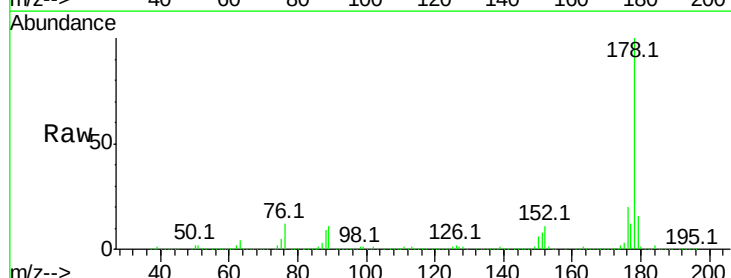
Manual Integrations
 APPROVED

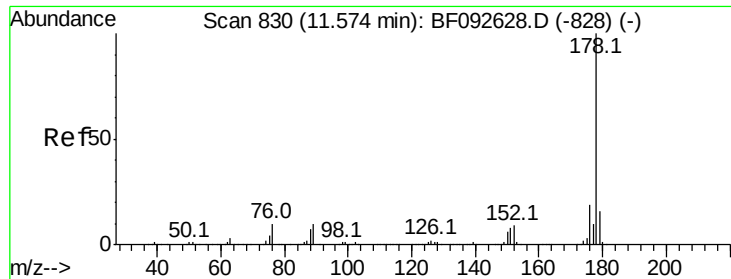
mohammad
 2/28/2017 2:35:44 PM



#70
 Phenanthrene
 Concen: 66.04 ng
 RT: 11.37 min Scan# 812
 Delta R.T. -0.00 min
 Lab File: BF093231.D
 Acq: 28 Feb 2017 3:32

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	1489750		
176	20.2		16.6	25.0
179	16.4		12.8	19.2





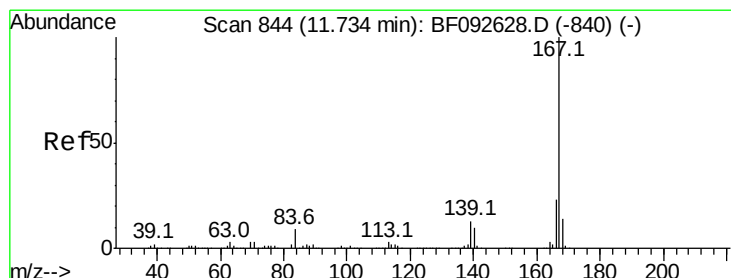
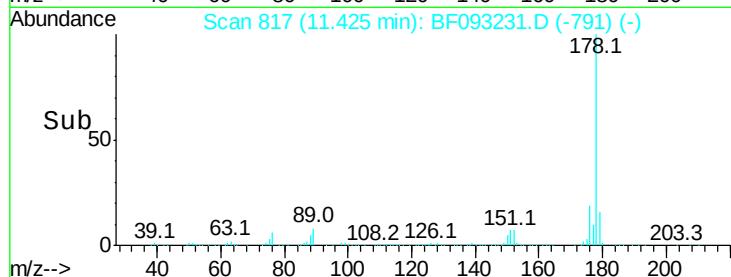
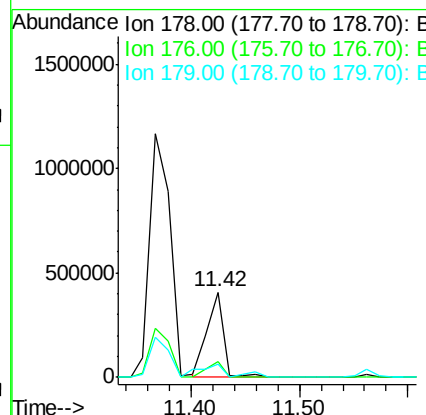
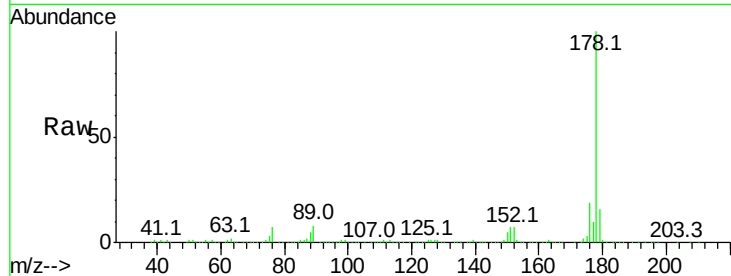
#71
 Anthracene
 Concen: 19.26 ng
 RT: 11.42 min Scan# 817
 Delta R.T. -0.00 min
 Lab File: BF093231.D
 Acq: 28 Feb 2017 3:32

Instrument :
 BNA_F
 ClientSampleId :
 E2-B1-SW-5

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.9	23.9
179	15.7	13.2	19.8

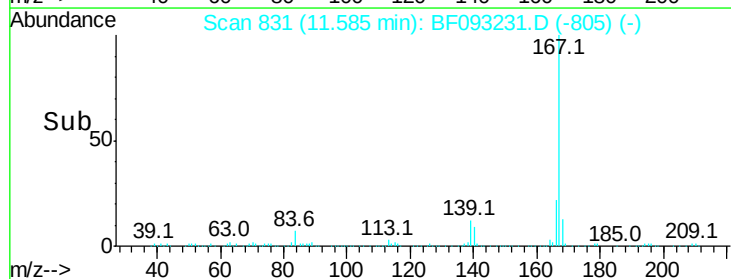
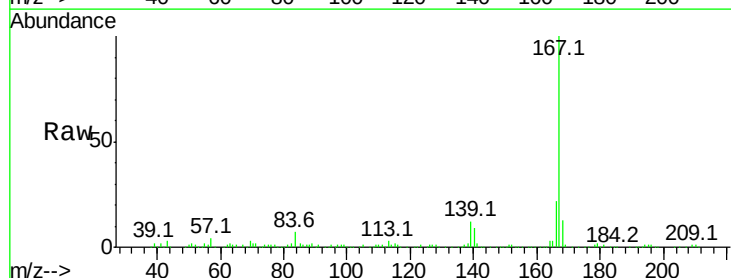
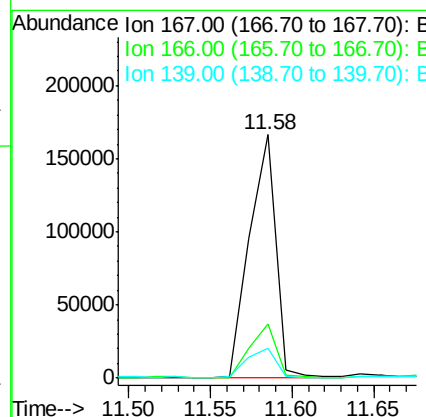
Manual Integrations
 APPROVED

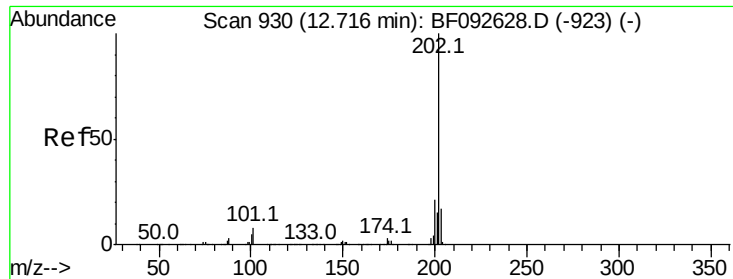
mohammad
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#72
 Carbazole
 Concen: 8.57 ng
 RT: 11.58 min Scan# 831
 Delta R.T. -0.00 min
 Lab File: BF093231.D
 Acq: 28 Feb 2017 3:32

Tgt Ion	Ratio	Lower	Upper
167	100		
166	22.1	18.2	27.2
139	12.1	11.4	17.2





#74

Fluoranthene

Concen: 71.24 ng

RT: 12.57 min Scan# 917

Delta R.T. 0.01 min

Lab File: BF093231.D

Acq: 28 Feb 2017 3:32

Instrument :

BNA_F

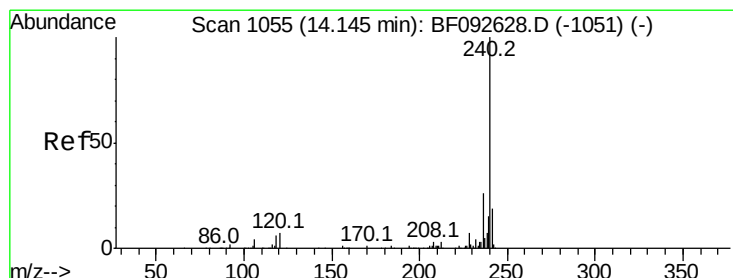
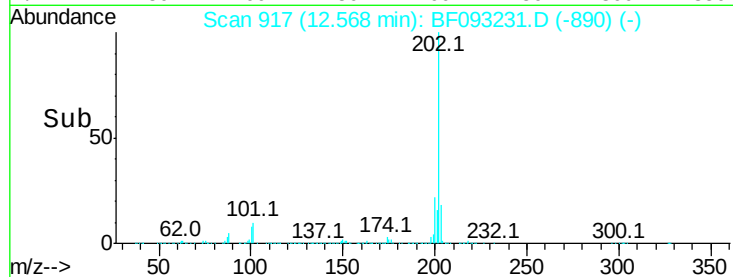
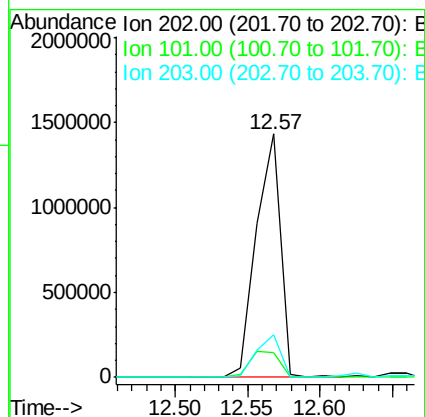
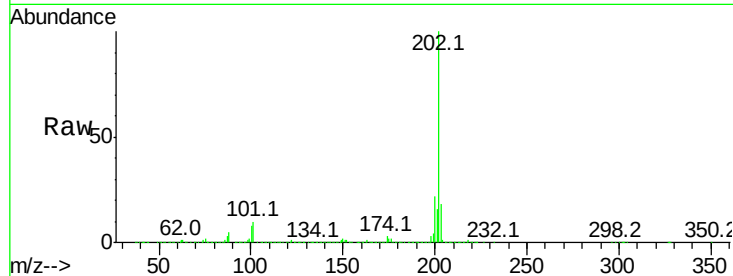
ClientSampleId :

E2-B1-SW-5

Tot Ion:	202	Resp:	1657742
Ion	Ratio	Lower	Upper
202	100		
101	10.4	0.0	34.6
203	17.6	0.0	38.7

Manual Integrations
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#75

Chrysene-d12

Concen: 20.00 ng

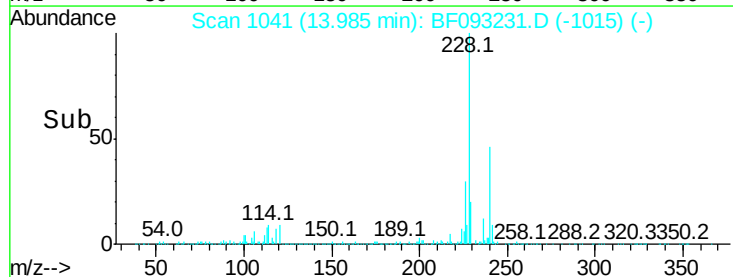
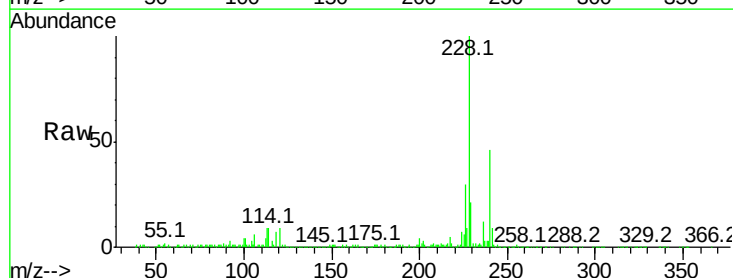
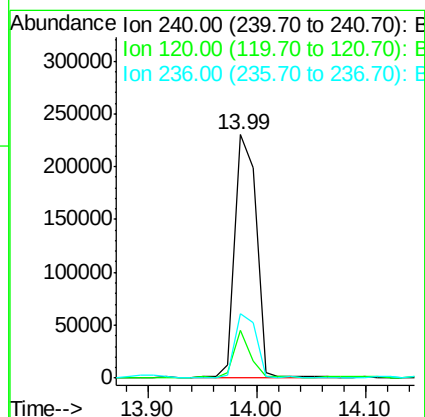
RT: 13.99 min Scan# 1041

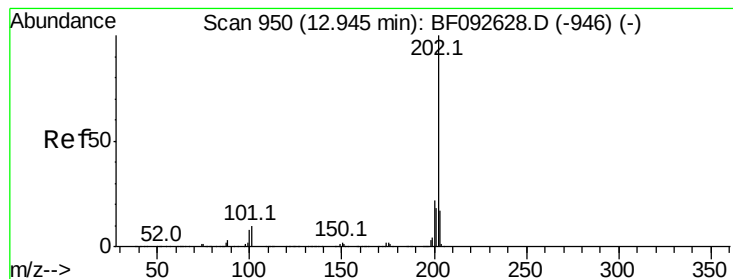
Delta R.T. -0.00 min

Lab File: BF093231.D

Acq: 28 Feb 2017 3:32

Tgt Ion:	240	Resp:	309336
Ion	Ratio	Lower	Upper
240	100		
120	19.4	12.9	19.3#
236	26.7	20.9	31.3





#77

Pvrene

Concen: 64.23 ng

RT: 12.80 min Scan# 937

Delta R.T. 0.01 min

Lab File: BF093231.D

Acq: 28 Feb 2017 3:32

Instrument :

BNA_F

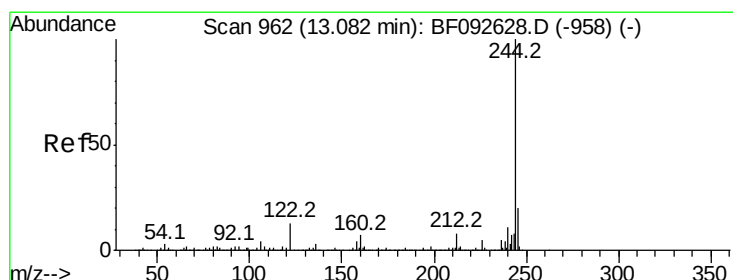
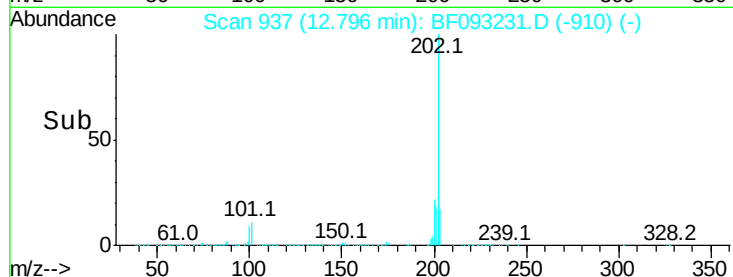
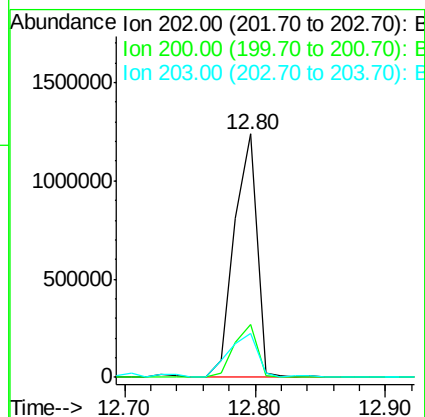
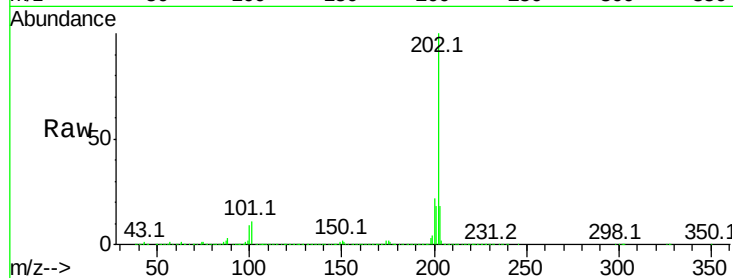
ClientSampleId :

E2-B1-SW-5

Tot Ion:	202	Resp:	1486895
Ion	Ratio	Lower	Upper
202	100		
200	21.9	17.7	26.5
203	17.8	14.7	22.1

Manual Integrations
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#78

Terphenyl-d14

Concen: 11.65 ng

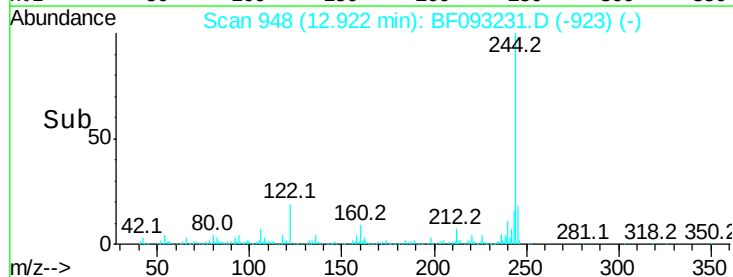
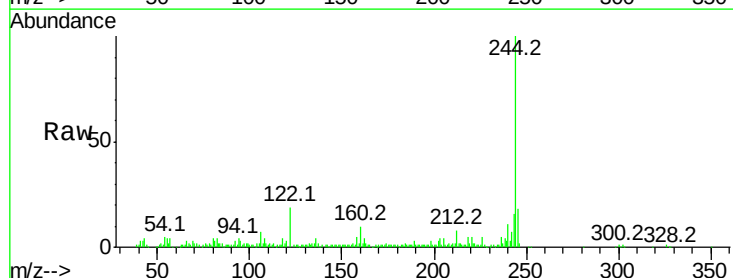
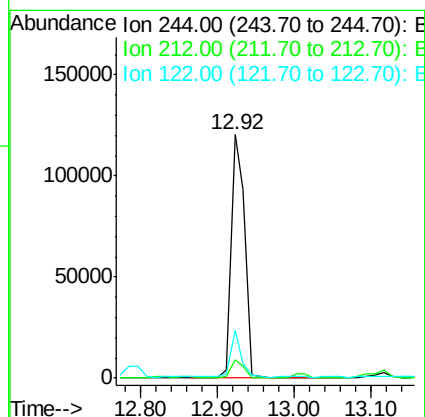
RT: 12.92 min Scan# 948

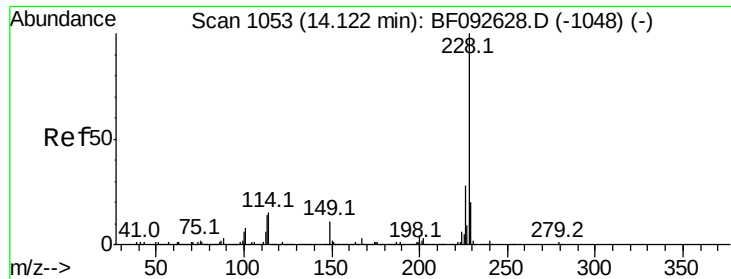
Delta R.T. -0.01 min

Lab File: BF093231.D

Acq: 28 Feb 2017 3:32

Tgt Ion:	244	Resp:	153381
Ion	Ratio	Lower	Upper
244	100		
212	7.6	6.2	9.2
122	19.5	11.4	17.2#





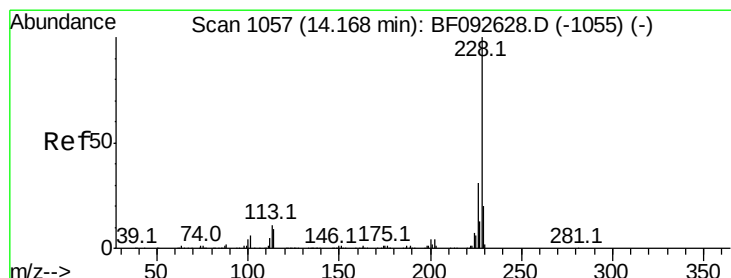
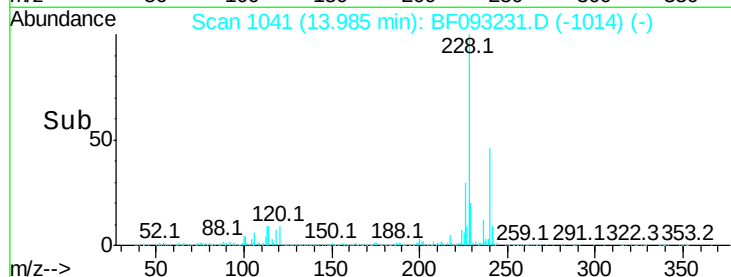
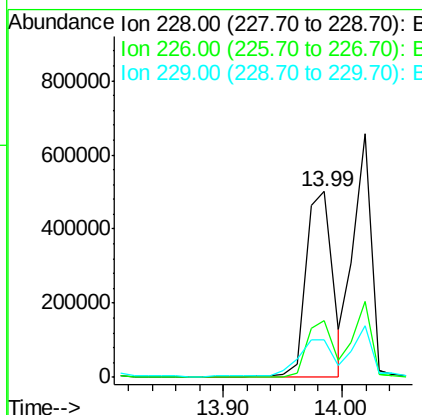
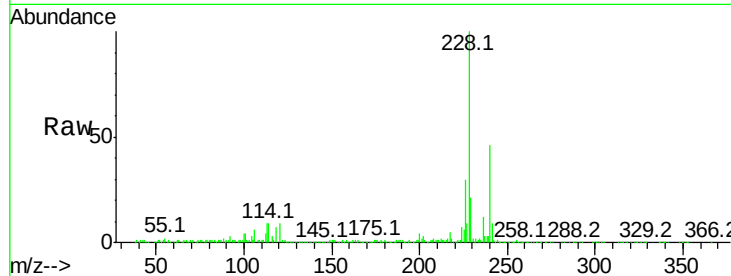
#80
Benzo(a)anthracene
Concen: 41.27 ng
RT: 13.99 min Scan# 1041
Delta R.T. 0.01 min
Lab File: BF093231.D
Acq: 28 Feb 2017 3:32

Instrument :
BNA_F
ClientSampleId :
E2-B1-SW-5

Tot Ion	Ratio	Lower	Upper
228	100		
226	30.4	22.4	33.6
229	20.6	16.2	24.4

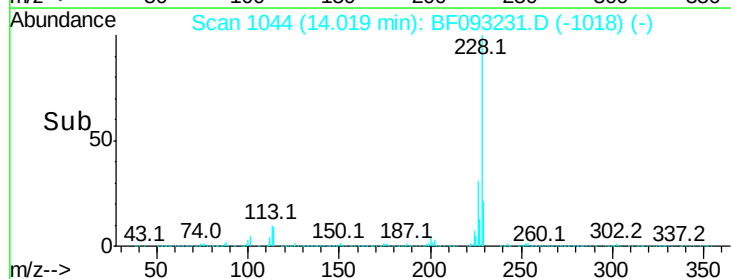
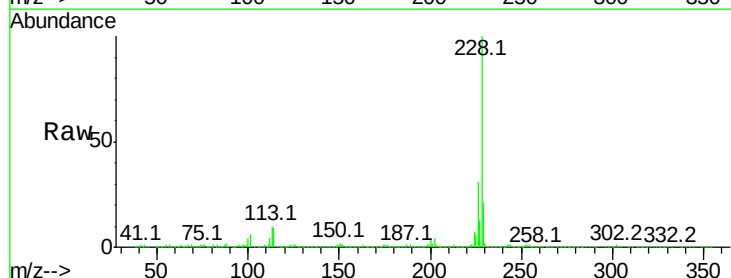
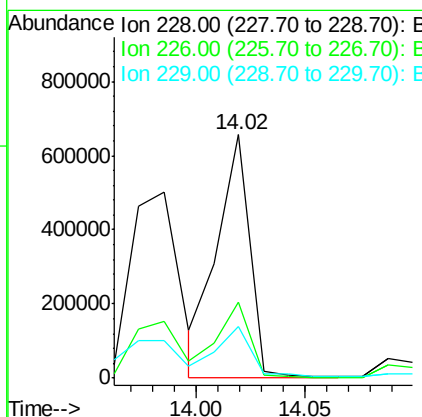
Manual Integrations
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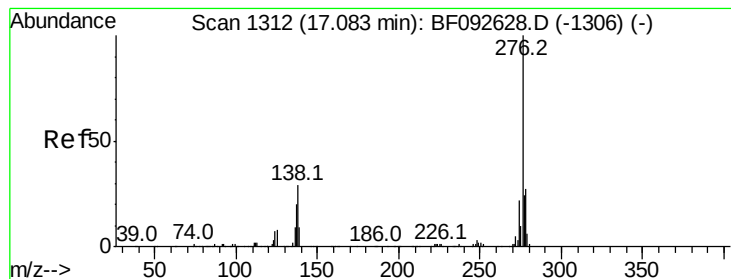
mohammad
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#82
Chrysene
Concen: 38.24 ng
RT: 14.02 min Scan# 1044
Delta R.T. -0.00 min
Lab File: BF093231.D
Acq: 28 Feb 2017 3:32

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.1	25.4	38.0
229	21.4	16.2	24.2





#85

Indeno(1,2,3-cd)pyrene

Concen: 20.06 ng

RT: 16.82 min Scan# 1289

Delta R.T. -0.00 min

Lab File: BF093231.D

Acq: 28 Feb 2017 3:32

Instrument :

BNA_F

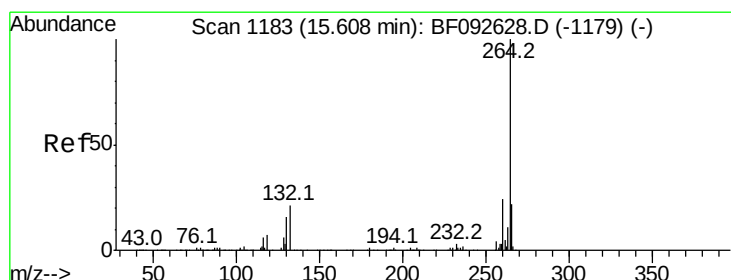
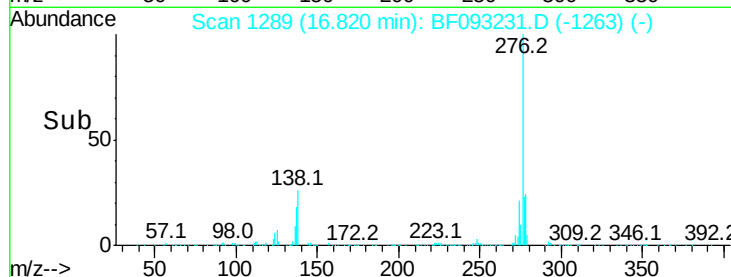
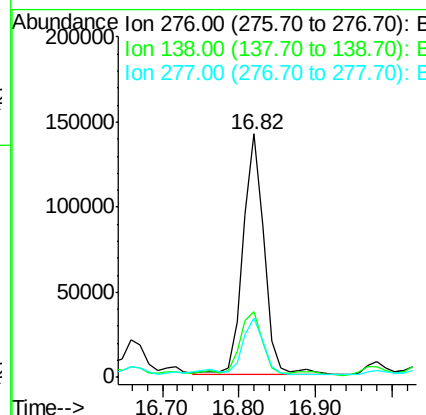
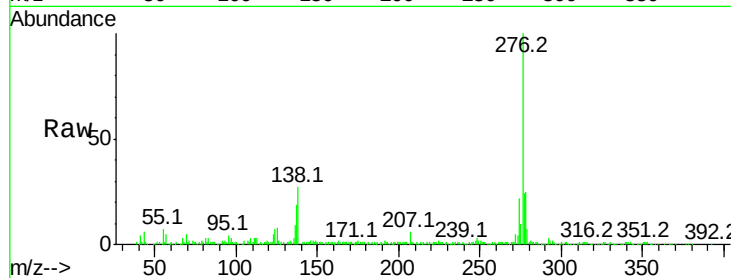
ClientSampleId :

E2-B1-SW-5

Tot Ion:	276	Resp:	275234
Ion Ratio	Lower	Upper	
276	100		
138	27.4	21.8	32.6
277	22.1	20.2	30.4

Manual Integrations
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#86

Perylene-d12

Concen: 20.00 ng

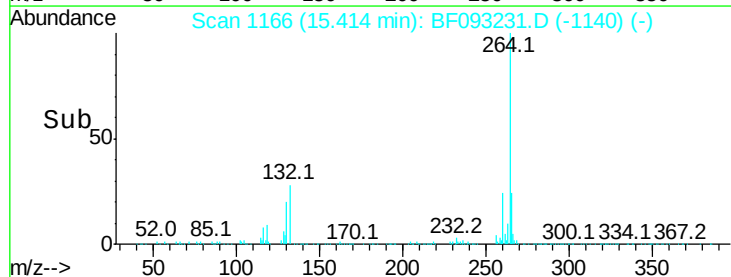
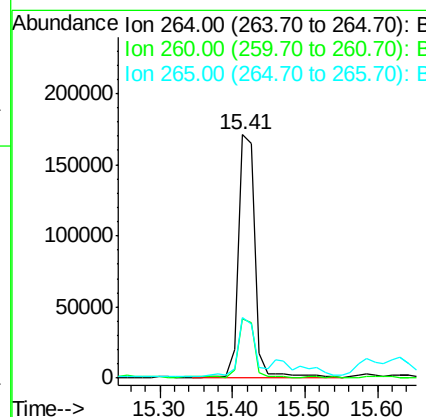
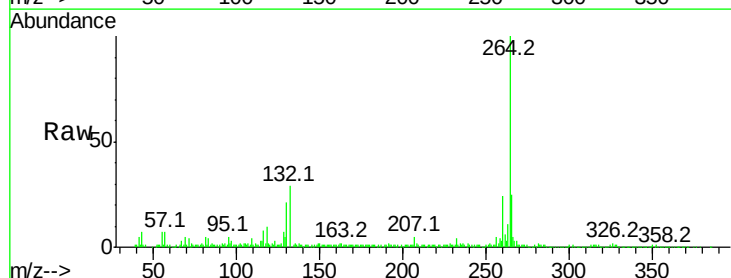
RT: 15.41 min Scan# 1166

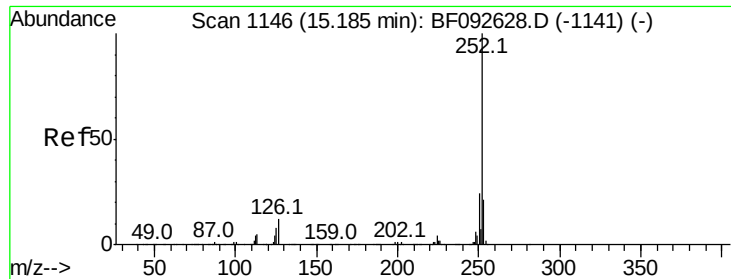
Delta R.T. -0.00 min

Lab File: BF093231.D

Acq: 28 Feb 2017 3:32

Tgt Ion:	264	Resp:	265915
Ion Ratio	Lower	Upper	
264	100		
260	24.2	19.2	28.8
265	24.7	17.4	26.0





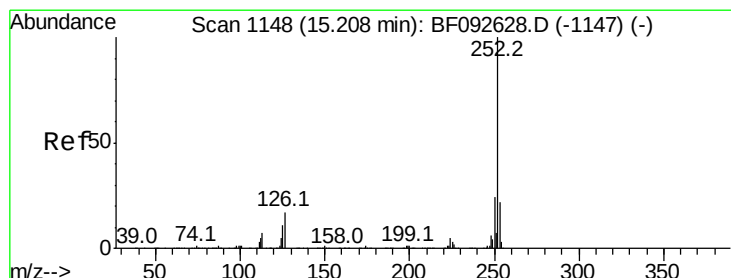
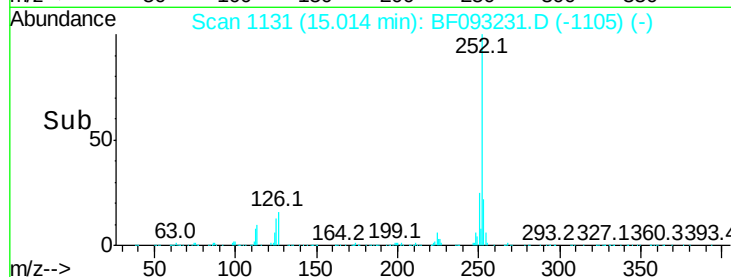
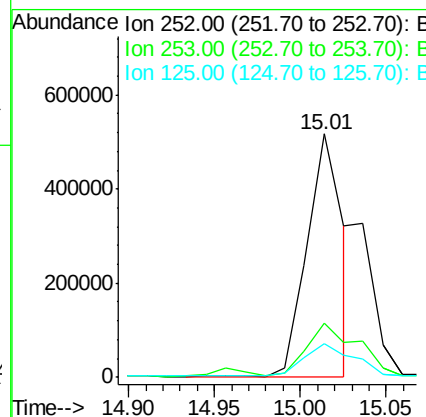
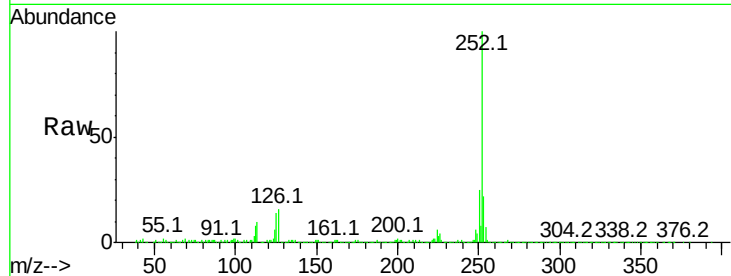
#87
Benzo(b)fluoranthene
Concen: 43.44 ng m
RT: 15.01 min Scan# 1131
Delta R.T. -0.00 min
Lab File: BF093231.D
Acq: 28 Feb 2017 3:32

Instrument :
BNA_F
ClientSampleId :
E2-B1-SW-5

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.3	18.2	27.4
125	13.7	9.8	14.6

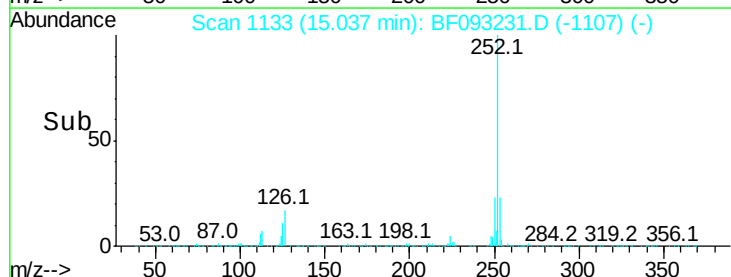
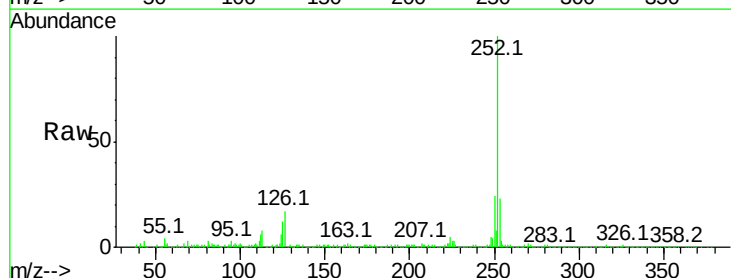
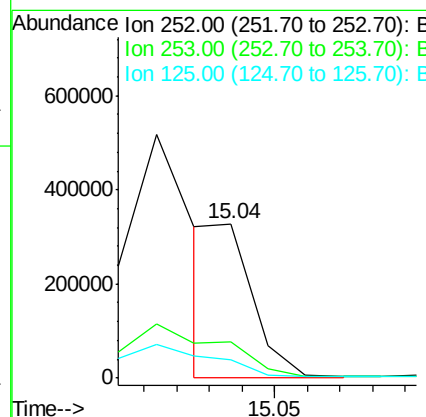
Manual Integrations
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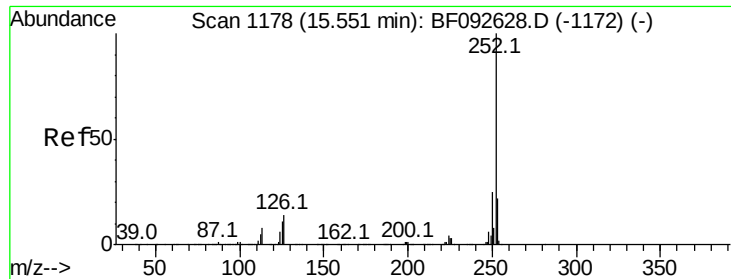
mohammad
2/28/2017 2:35:44 PM



#88
Benzo(k)fluoranthene
Concen: 18.54 ng m
RT: 15.04 min Scan# 1133
Delta R.T. -0.00 min
Lab File: BF093231.D
Acq: 28 Feb 2017 3:32

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.1	18.5	27.7
125	12.2	8.9	13.3





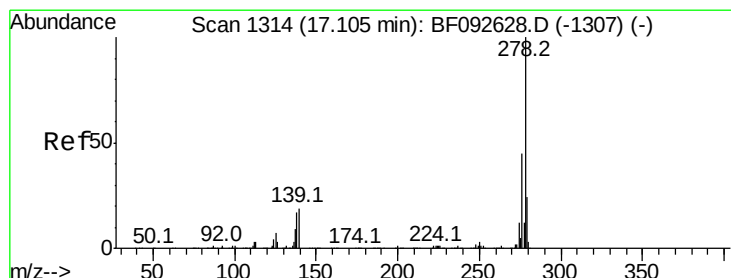
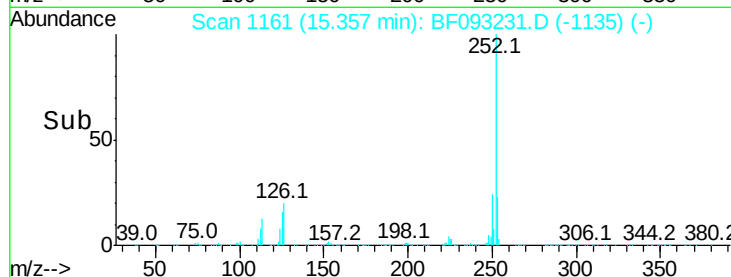
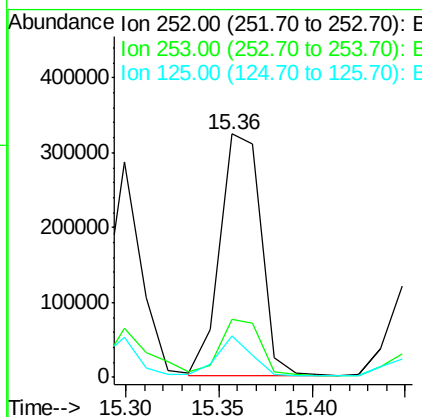
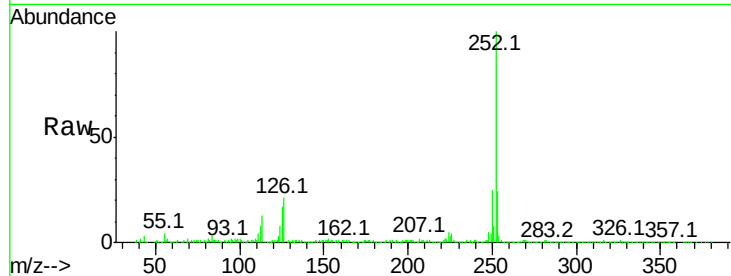
#89
Benzo(a)pyrene
Concen: 32.87 ng
RT: 15.36 min Scan# 1161
Delta R.T. -0.00 min
Lab File: BF093231.D
Acq: 28 Feb 2017 3:32

Instrument :
BNA_F
ClientSampleId :
E2-B1-SW-5

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.0	18.2	27.2
125	16.8	10.0	15.0

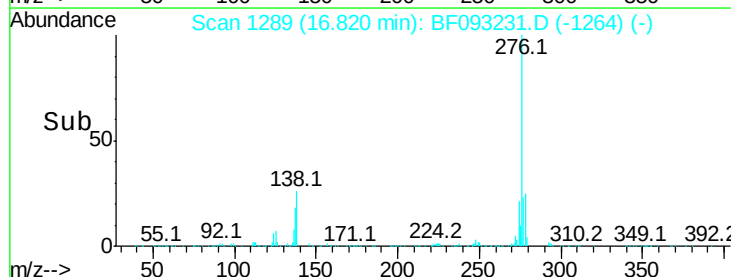
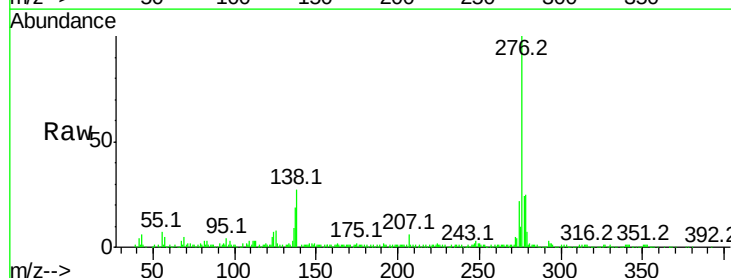
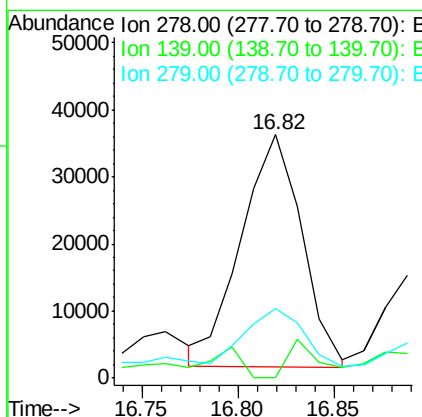
Manual Integrations
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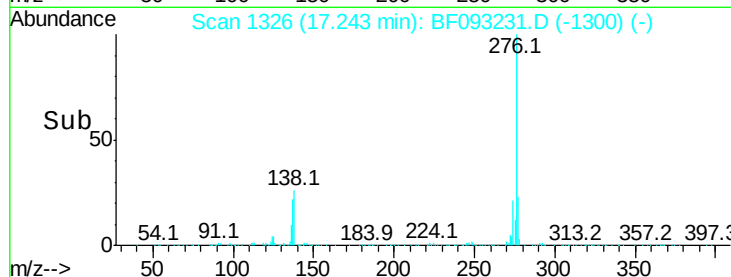
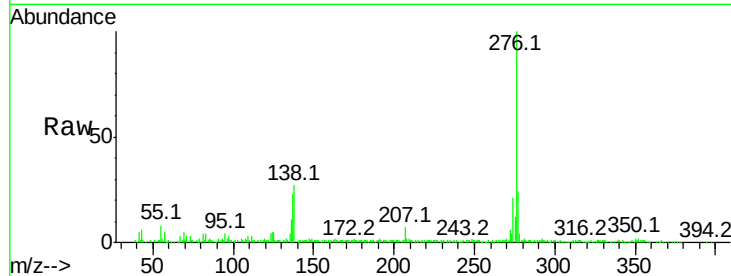
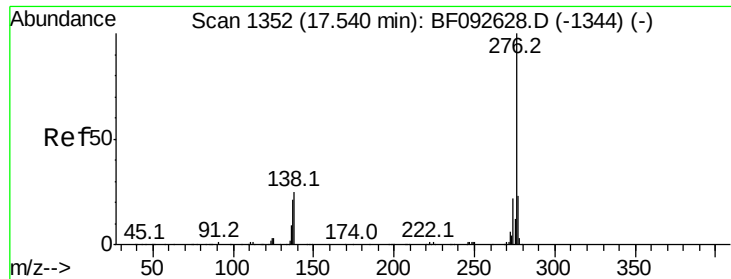
mohammad
2/28/2017 2:35:44 PM



#90
Dibenzo(a,h)anthracene
Concen: 6.24 ng m
RT: 16.82 min Scan# 1289
Delta R.T. -0.01 min
Lab File: BF093231.D
Acq: 28 Feb 2017 3:32

Tgt Ion	Ratio	Lower	Upper
278	100		
139	0.0	14.8	22.2
279	28.4	19.8	29.6





#91

Benzo(a,h,i)perylene

Concen: 18.88 ng

RT: 17.24 min Scan# 1326

Delta R.T. -0.00 min

Lab File: BF093231.D

Acq: 28 Feb 2017 3:32

Instrument :

BNA_F

ClientSampleId :

E2-B1-SW-5

Tot Ion	Ratio	Resp	Lower	Upper
276	100			
277	23.8	19.2	28.8	
138	27.3	16.0	24.0	

Manual Integrations
APPROVED

mohammad
2/28/2017 2:35:44 PM

