

Data Path : Z:\HPCHEM1\BNA F\DATA\BF032917\
 Data File : BF094053.D
 Acq On : 30 Mar 2017 9:02
 Operator : SJ/MA
 Sample : I2431-06
 Misc :
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 E2-R-S-12-13-BASE

Manual Integrations
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Quant Time: Mar 30 11:32:55 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032217.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 27 16:10:49 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.92	152	170683	20.00	ng	-0.03
21) Naphthalene-d8	7.43	136	658224	20.00	ng	-0.03
38) Acenaphthene-d10	9.57	164	273893	20.00	ng	-0.03
63) Phenanthrene-d10	11.39	188	419562	20.00	ng	-0.03
75) Chrysene-d12	14.66	240	280462	20.00	ng	-0.02
86) Perylene-d12	16.30	264	252710	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	4.46	112	1071185	106.00	ng	-0.01
7) Phenol-d6	5.53	99	1312890	105.02	ng	-0.02
23) Nitrobenzene-d5	6.57	82	699877	60.68	ng	-0.04
41) 2,4,6-Tribromophenol	10.55	330	205348	94.88	ng	-0.03
44) 2-Fluorobiphenyl	8.75	172	1452046	80.86	ng	-0.03
78) Terphenyl-d14	13.37	244	920241	73.55	ng	-0.03
Target Compounds						Qvalue
31) Naphthalene	7.45	128	118008	3.73	ng	97
37) 2-Methylnaphthalene	8.29	142	54670	2.59	ng	97
48) Acenaphthylene	9.39	152	417173	14.51	ng	98
49) Dimethylphthalate	9.25	163	92457	4.75	ng	99
54) Dibenzofuran	9.82	168	74402	3.26	ng	94
57) Fluorene	10.24	166	78105	4.13	ng	96
70) Phenanthrene	11.43	178	975658	41.80	ng	98
71) Anthracene	11.49	178	441150	18.36	ng	98
72) Carbazole	11.69	167	135703	5.51	ng	98
74) Fluoranthene	12.90	202	1895675	79.32	ng	99
77) Pyrene	13.17	202	1692625	83.16	ng	100
80) Benzo(a)anthracene	14.65	228	1338345m	81.83	ng	
82) Chrysene	14.69	228	1270370m	83.70	ng	
85) Indeno(1,2,3-cd)pyrene	17.67	276	673438	51.23	ng	95
87) Benzo(b)fluoranthene	15.90	252	1781308m	115.00	ng	
88) Benzo(k)fluoranthene	15.92	252	623028m	41.11	ng	
89) Benzo(a)pyrene	16.24	252	1123801	78.78	ng	95
90) Dibenzo(a,h)anthracene	17.68	278	185647	15.37	ng	93
91) Benzo(a,h,i)perylene	18.08	276	580380	47.67	ng	98

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

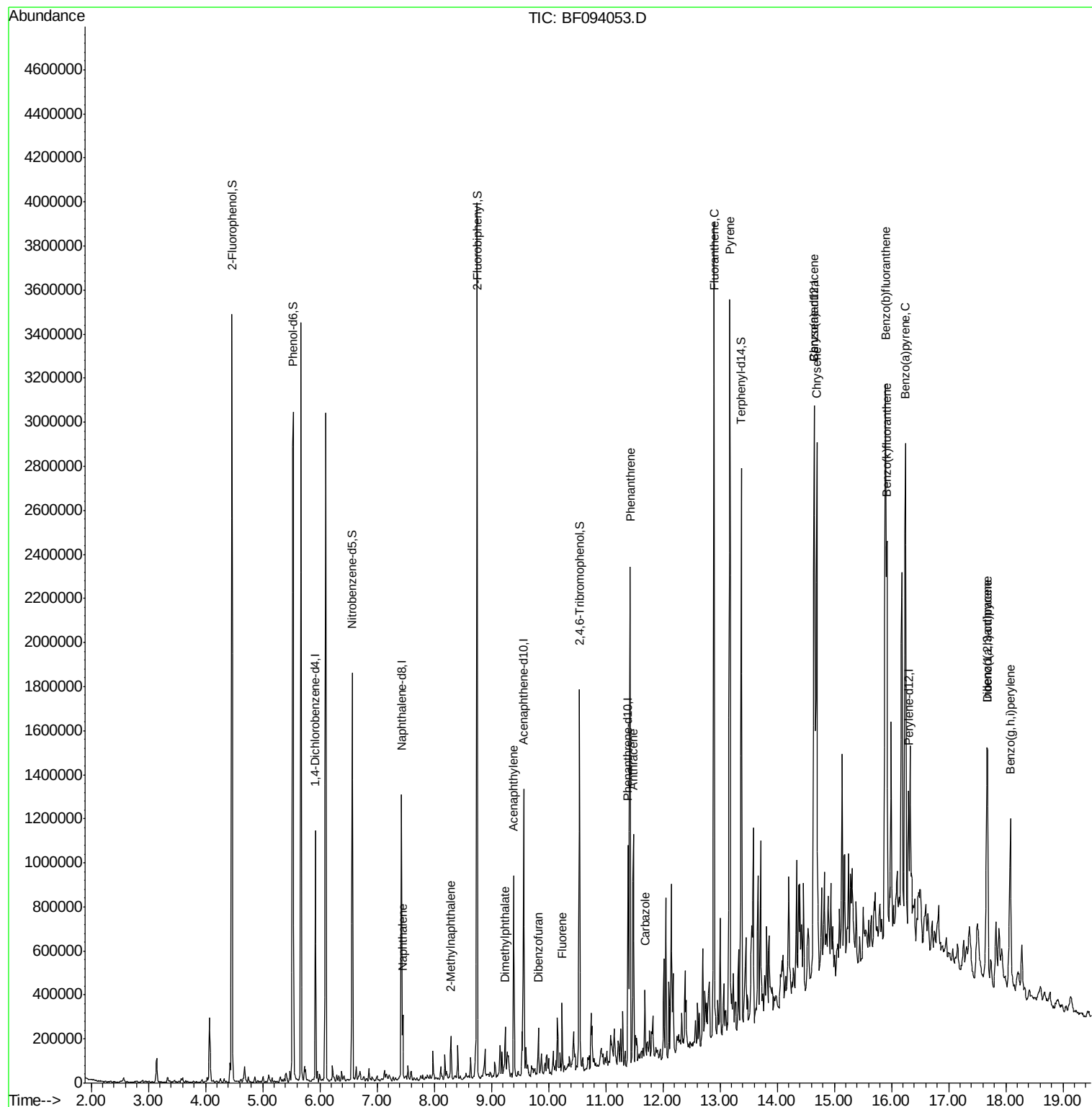
Data Path : Z:\HPCHEM1\BNA F\DATA\BF032917\
Data File : BF094053.D
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ALS Vial : 35 Sample Multiplier: 1

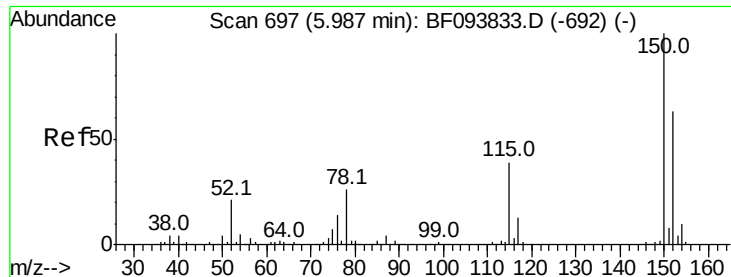
Instrument :
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#1

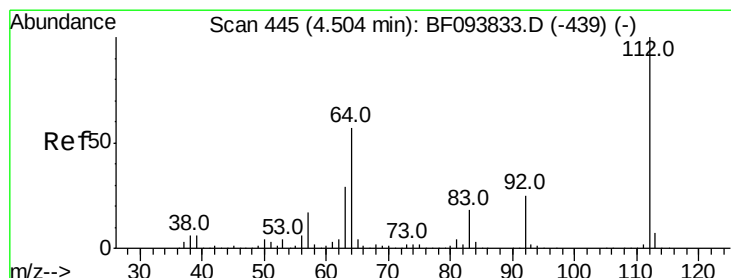
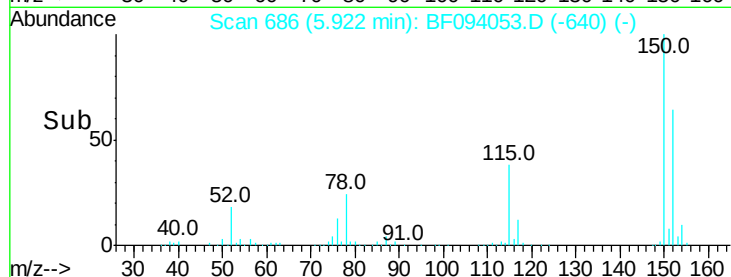
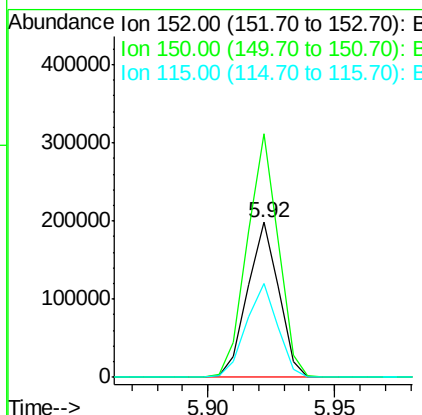
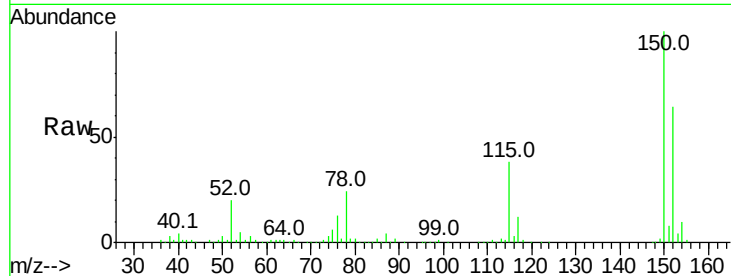
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 5.92 min Scan# 686
Delta R.T. -0.03 min
Lab File: BF094053.D
Acq: 30 Mar 2017 9:02

Instrument :
BNA_F
ClientSampleId :
E2-R-S-12-13-BASE

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.0	126.2	189.2
115	60.4	52.2	78.2

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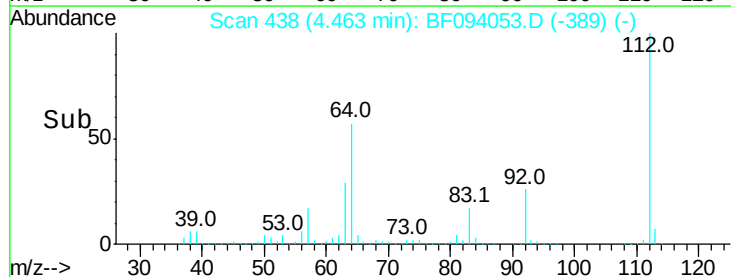
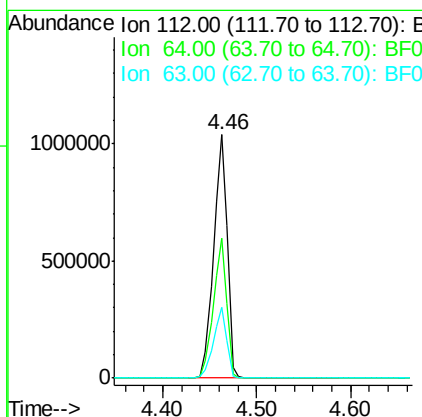
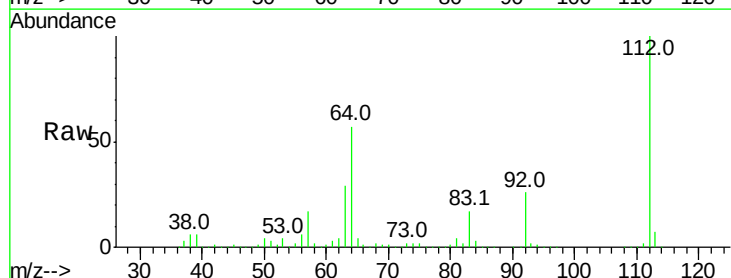
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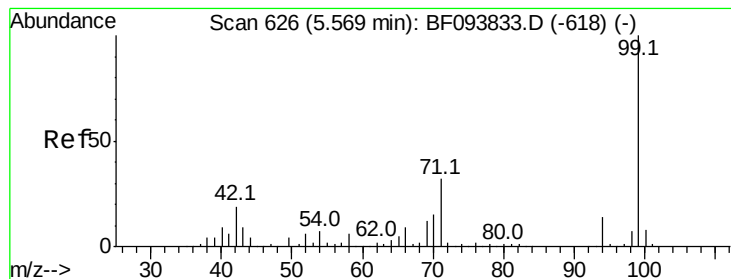


#5

2-Fluorophenol
Concen: 106.00 ng
RT: 4.46 min Scan# 438
Delta R.T. -0.01 min
Lab File: BF094053.D
Acq: 30 Mar 2017 9:02

Tgt Ion	Ratio	Lower	Upper
112	100		
64	57.3	46.0	69.0
63	29.1	23.4	35.0





#7

Phenol-d6

Concen: 105.02 ng

RT: 5.53 min Scan# 620

Delta R.T. -0.02 min

Lab File: BF094053.D

Acq: 30 Mar 2017 9:02

Instrument :

BNA_F

ClientSampleId :

E2-R-S-12-13-BASE

Tot Ion: 99 Resp: 1312890

Ion Ratio Lower Upper

99 100

42 17.1 13.5 20.3

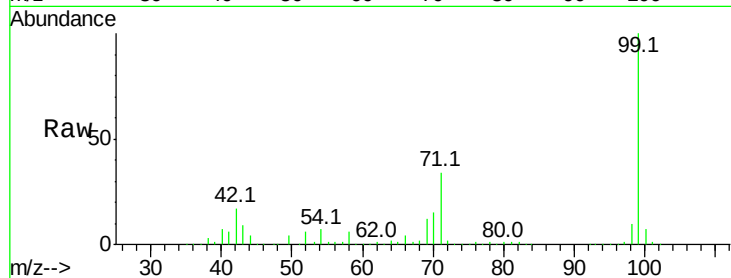
71 34.0 24.5 36.7

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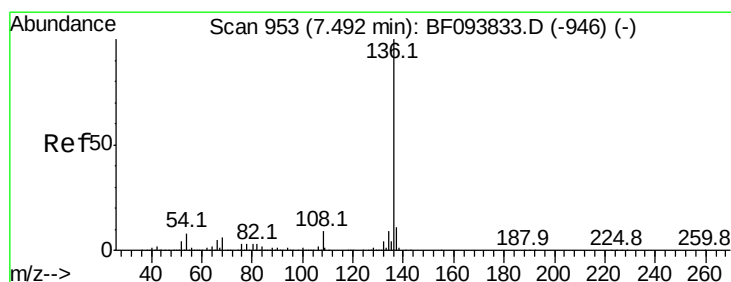
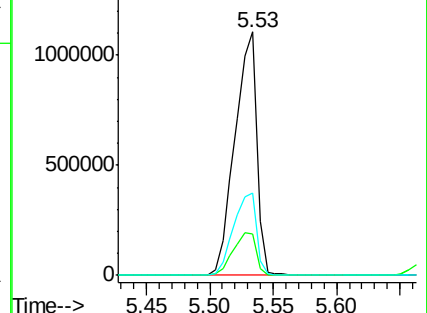
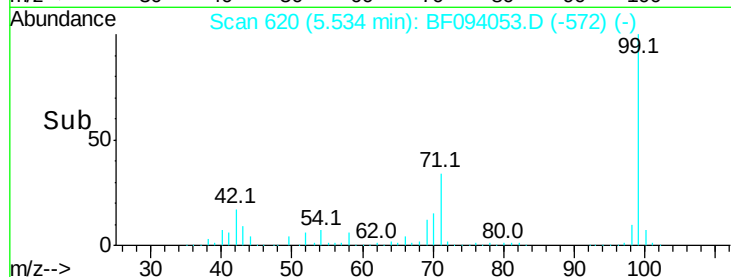
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Abundance Ion 99.00 (98.70 to 99.70): BF0

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: 7.43 min Scan# 942

Delta R.T. -0.03 min

Lab File: BF094053.D

Acq: 30 Mar 2017 9:02

Tgt Ion: 136 Resp: 658224

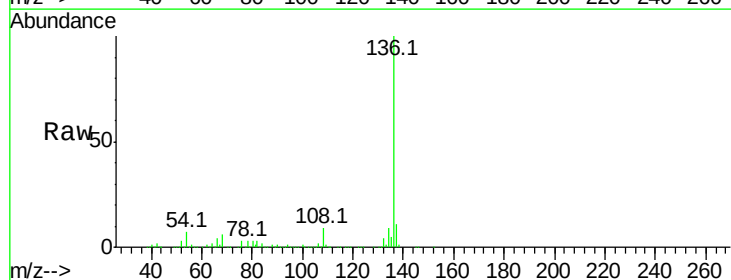
Ion Ratio Lower Upper

136 100

137 10.7 8.5 12.7

54 7.0 4.9 7.3

68 5.7 4.1 6.1

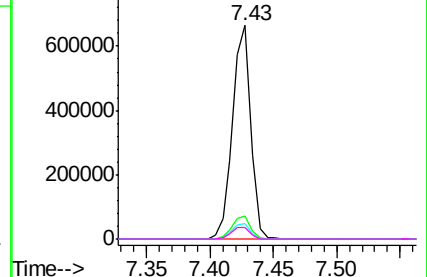
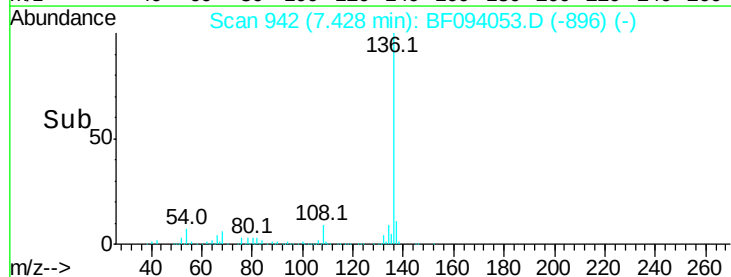


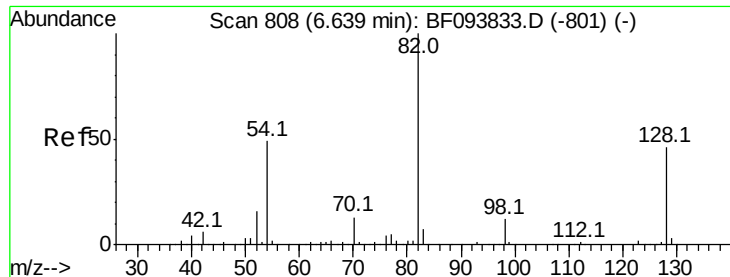
Abundance Ion 136.00 (135.70 to 136.70): E

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





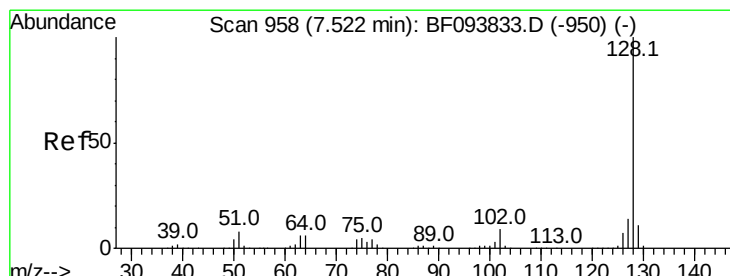
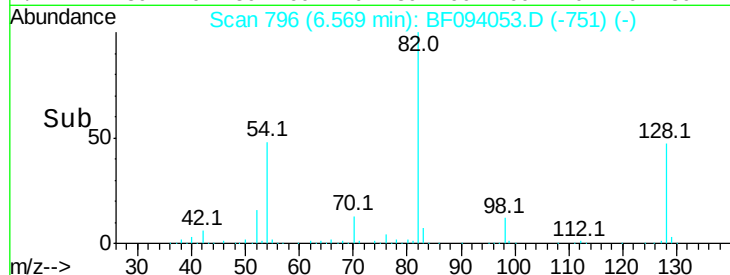
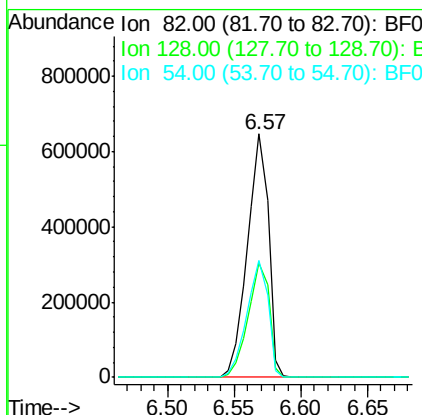
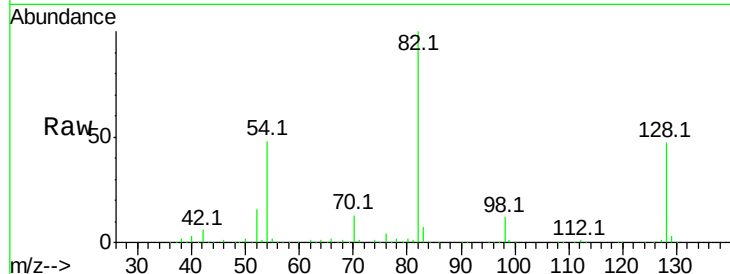
#23
Nitrobenzene-d5
Concen: 60.68 ng
RT: 6.57 min Scan# 796
Delta R.T. -0.04 min
Lab File: BF094053.D
Acq: 30 Mar 2017 9:02

Instrument :
BNA_F
ClientSampleId :
E2-R-S-12-13-BASE

Tot Ion	Ratio	Lower	Upper
82	100		
128	46.9	34.0	51.0
54	48.1	42.2	63.2

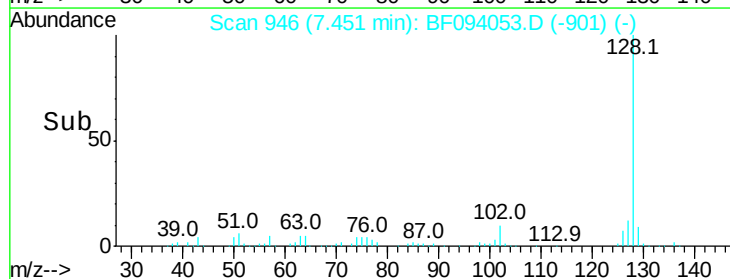
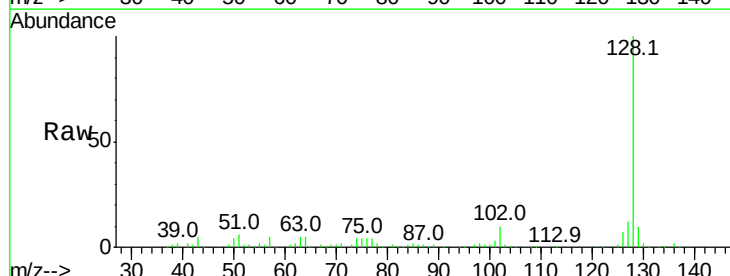
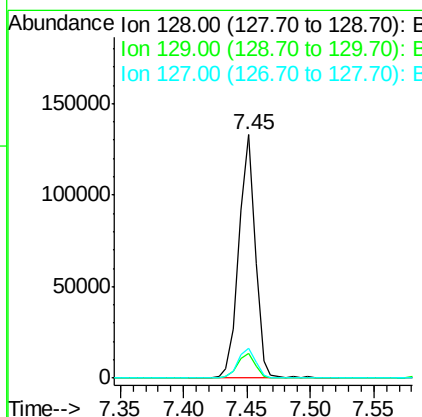
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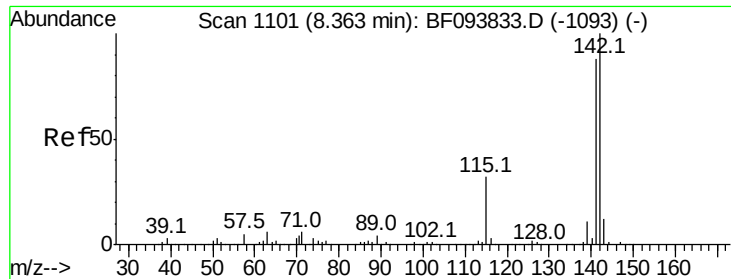
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#31
Naphthalene
Concen: 3.73 ng
RT: 7.45 min Scan# 946
Delta R.T. -0.04 min
Lab File: BF094053.D
Acq: 30 Mar 2017 9:02

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.0	9.0	13.6
127	12.4	10.8	16.2





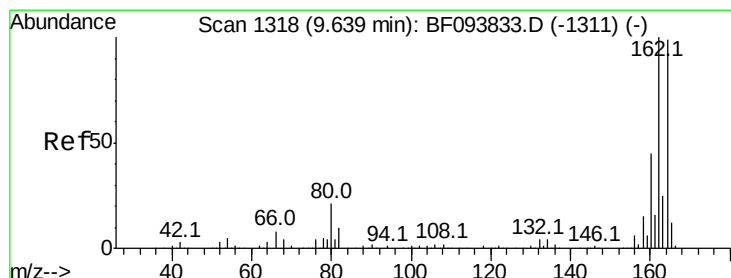
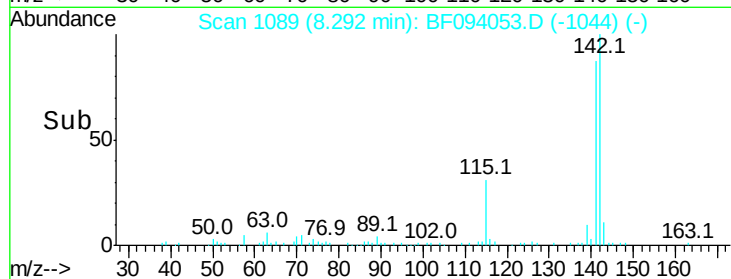
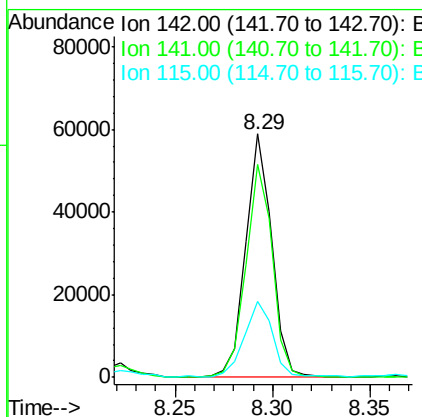
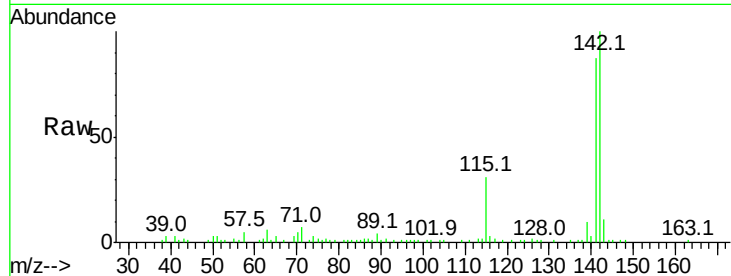
#37
2-Methylnaphthalene
Concen: 2.59 ng
RT: 8.29 min Scan# 1089
Delta R.T. -0.04 min
Lab File: BF094053.D
Acq: 30 Mar 2017 9:02

Instrument :
BNA_F
ClientSampleId :
E2-R-S-12-13-BASE

Tot Ion	Ratio	Lower	Upper
142	100		
141	87.5	71.3	106.9
115	31.2	27.1	40.7

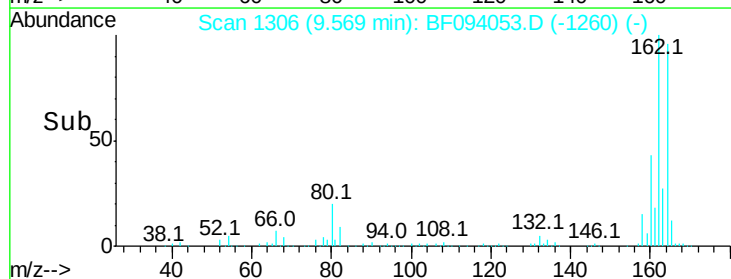
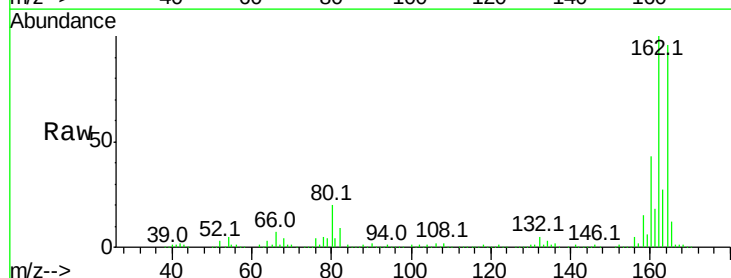
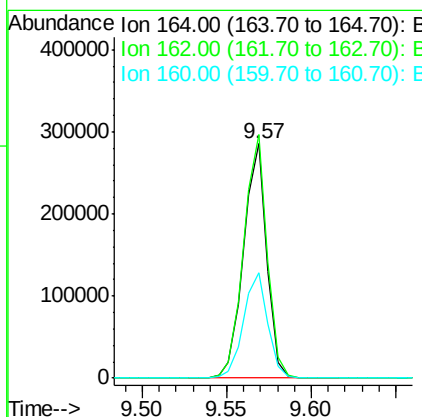
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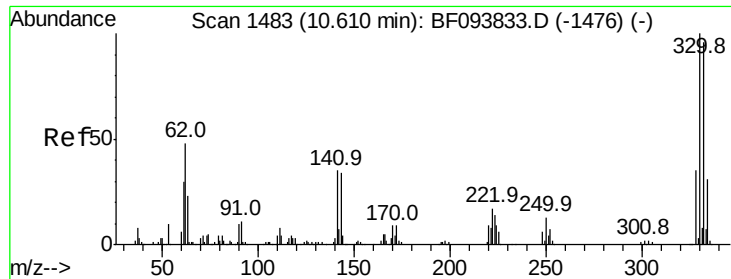
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.57 min Scan# 1306
Delta R.T. -0.03 min
Lab File: BF094053.D
Acq: 30 Mar 2017 9:02

Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.9	82.6	123.8
160	45.0	36.2	54.2





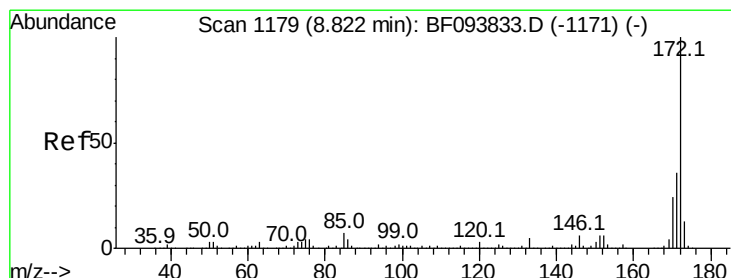
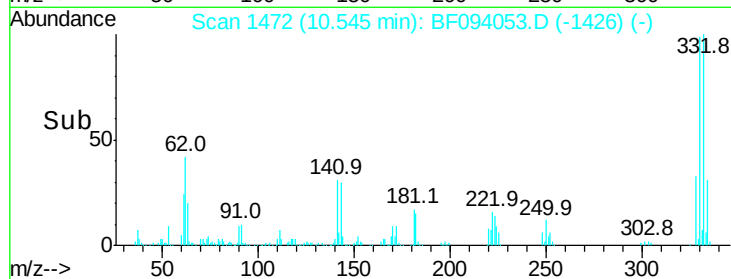
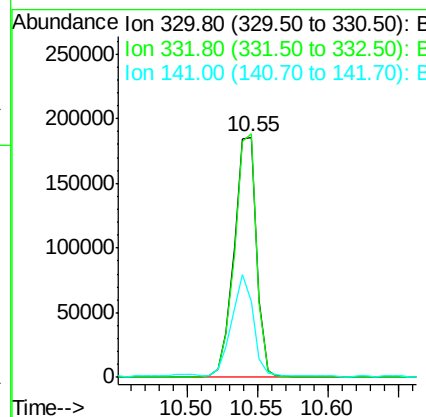
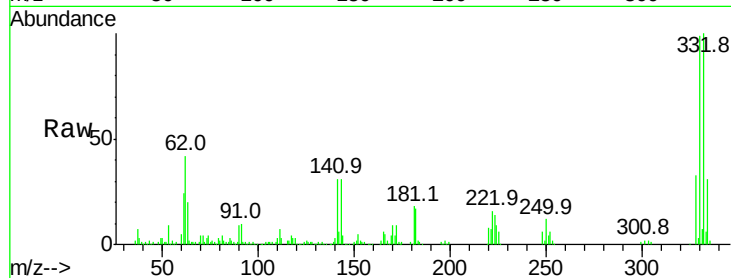
#41
 2,4,6-Tribromophenol
 Concen: 94.88 ng
 RT: 10.55 min Scan# 1472
 Delta R.T. -0.03 min
 Lab File: BF094053.D
 Acq: 30 Mar 2017 9:02

Instrument :
 BNA_F
 ClientSampleId :
 E2-R-S-12-13-BASE

Tot Ion	Ratio	Resp	Lower	Upper
330	100	205348		
332	98.6	76.6	115.0	
141	40.6	31.4	47.2	

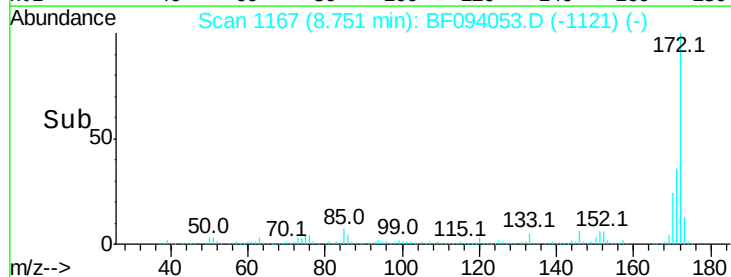
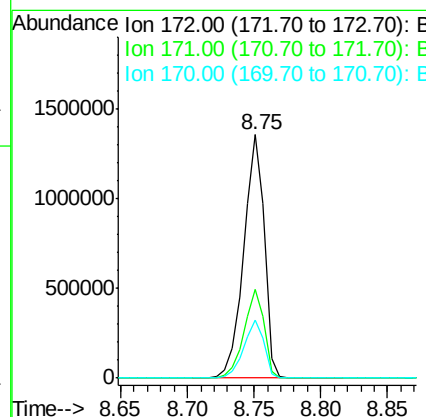
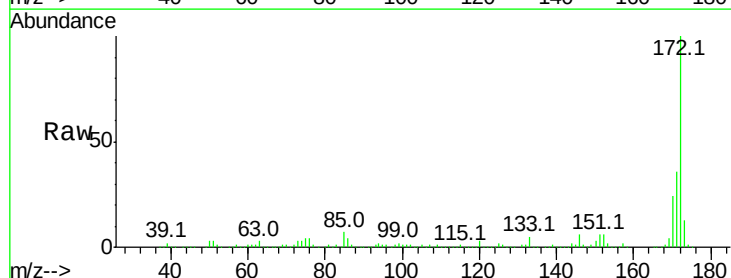
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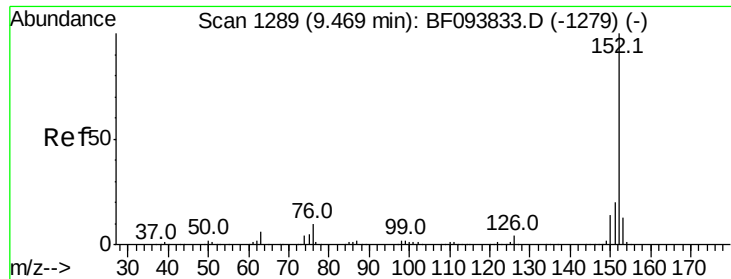
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#44
 2-Fluorobiphenyl
 Concen: 80.86 ng
 RT: 8.75 min Scan# 1167
 Delta R.T. -0.03 min
 Lab File: BF094053.D
 Acq: 30 Mar 2017 9:02

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	1452046		
171	36.4	29.6	44.4	
170	23.8	19.8	29.8	





#48

Acenaphthylene

Concen: 14.51 ng

RT: 9.39 min Scan# 1276

Delta R.T. -0.04 min

Lab File: BF094053.D

Acq: 30 Mar 2017 9:02

Instrument :

BNA_F

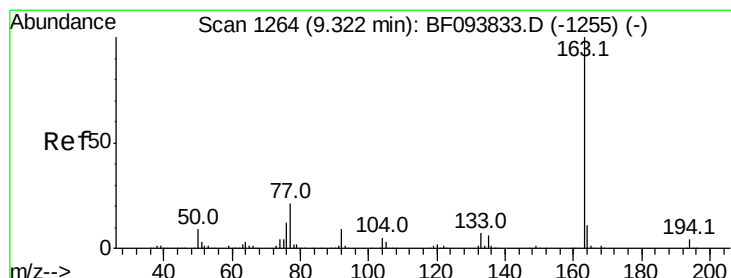
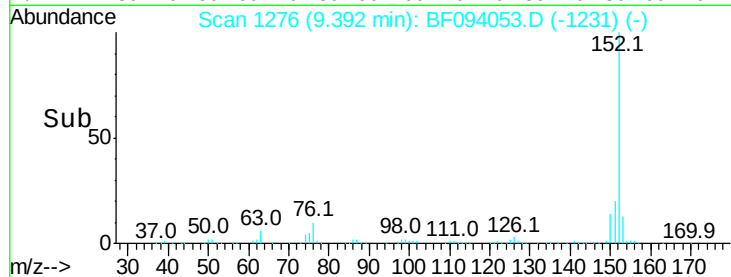
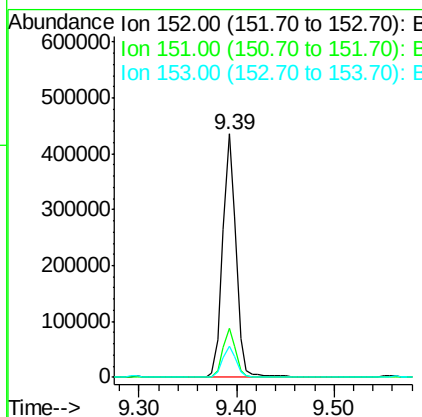
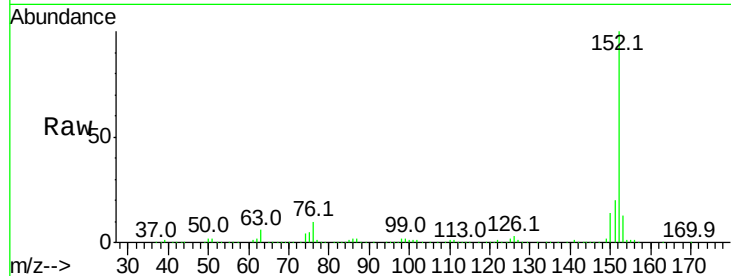
ClientSampleId :

E2-R-S-12-13-BASE

Tot Ion:	152	Resp:	417173
Ion Ratio	Lower	Upper	
152	100		
151	20.1	16.8	25.2
153	12.8	10.8	16.2

Manual Integrations
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#49

Dimethylphthalate

Concen: 4.75 ng

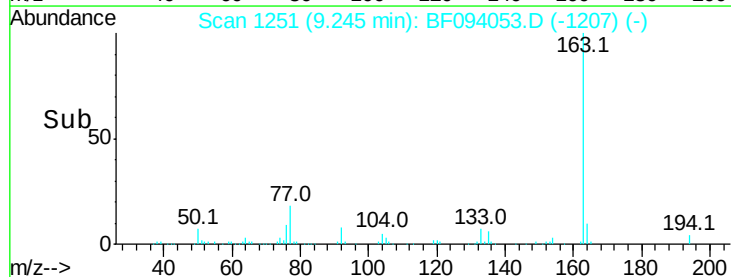
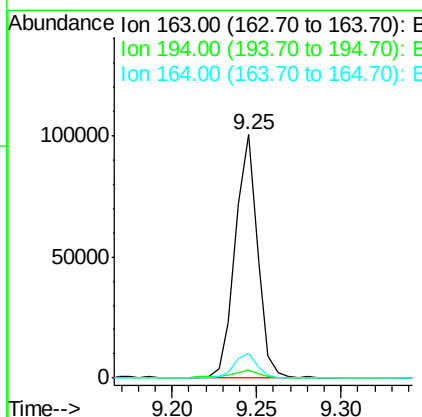
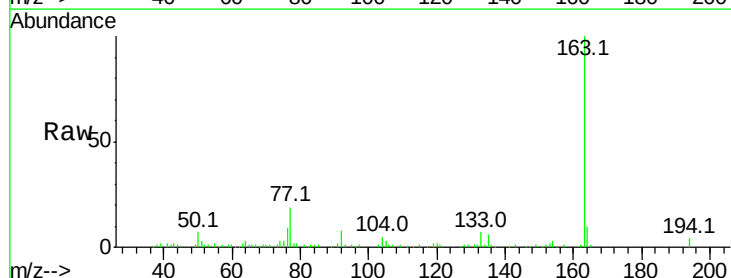
RT: 9.25 min Scan# 1251

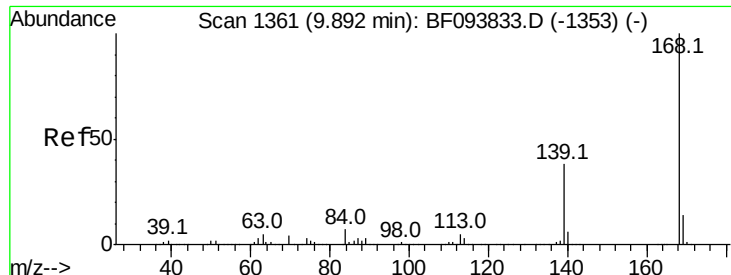
Delta R.T. -0.04 min

Lab File: BF094053.D

Acq: 30 Mar 2017 9:02

Tgt Ion:	163	Resp:	92457
Ion Ratio	Lower	Upper	
163	100		
194	3.6	2.6	4.0
164	10.3	8.4	12.6





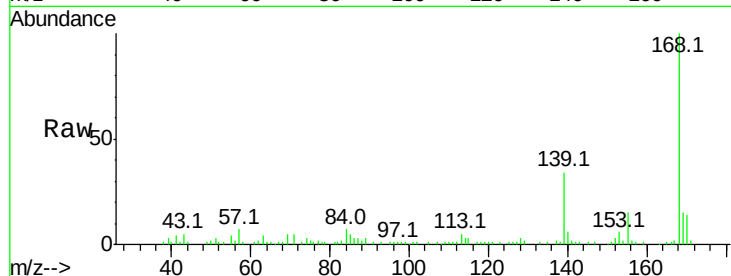
#54
Dibenzenofuran
Concen: 3.26 ng
RT: 9.82 min Scan# 1349
Delta R.T. -0.04 min
Lab File: BF094053.D
Acq: 30 Mar 2017 9:02

Instrument :
BNA_F
ClientSampleId :
E2-R-S-12-13-BASE

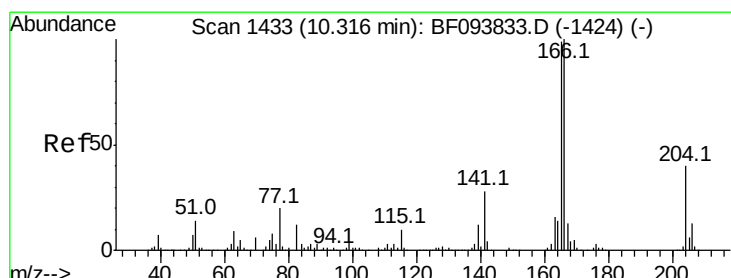
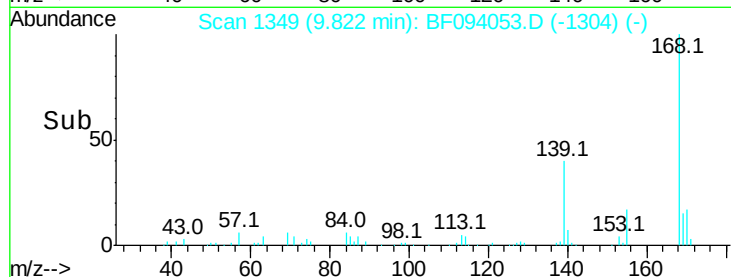
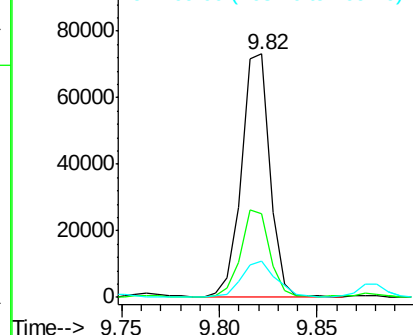
Tot Ion	Ratio	Lower	Upper
168	100		
139	34.2	30.6	45.8
169	14.9	10.8	16.2

Manual Integrations
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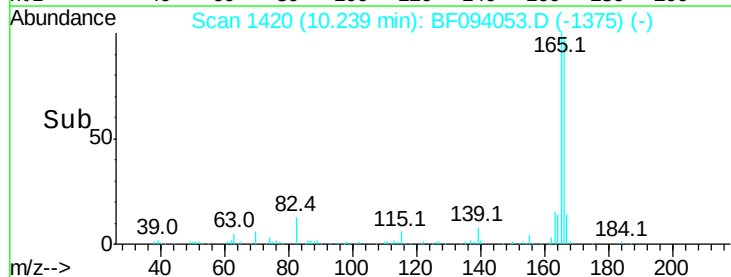
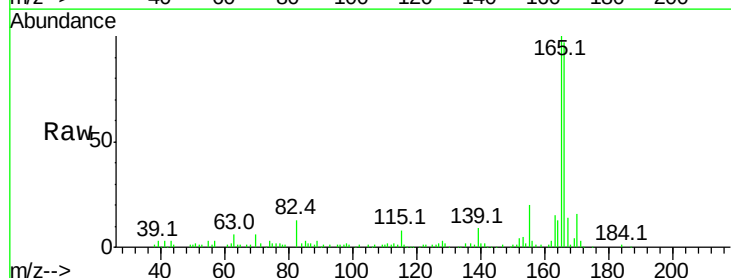
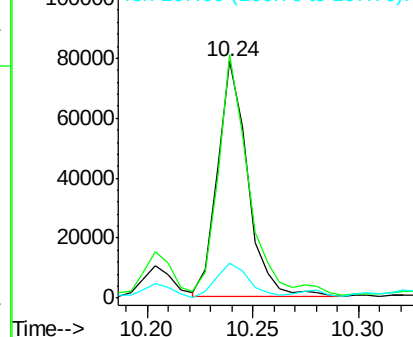
Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E

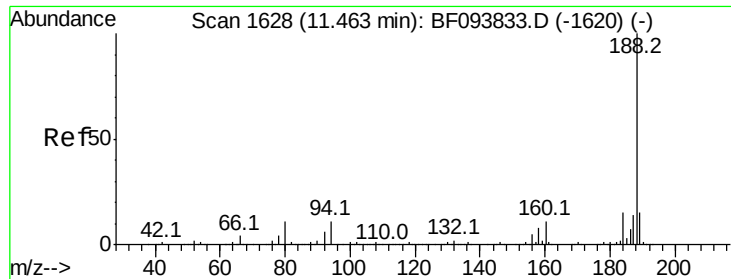


#57
Fluorene
Concen: 4.13 ng
RT: 10.24 min Scan# 1420
Delta R.T. -0.04 min
Lab File: BF094053.D
Acq: 30 Mar 2017 9:02

Tgt Ion	Ratio	Lower	Upper
166	100		
165	102.8	78.8	118.2
167	14.8	10.6	16.0

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





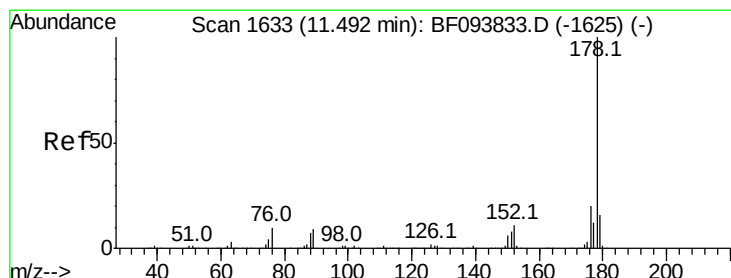
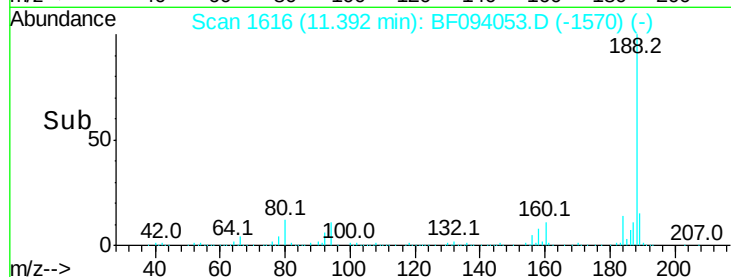
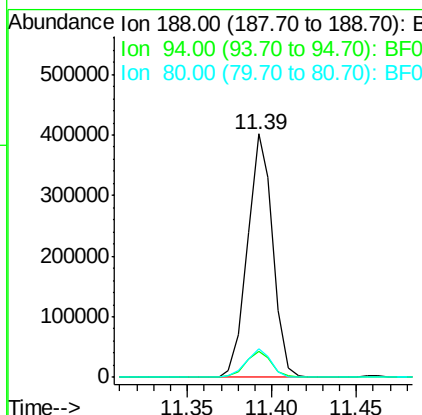
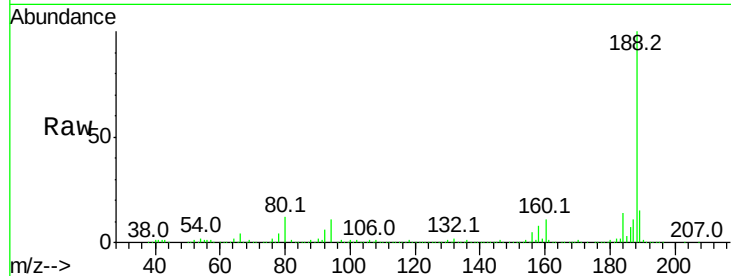
#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.39 min Scan# 1616
 Delta R.T. -0.03 min
 Lab File: BF094053.D
 Acq: 30 Mar 2017 9:02

Instrument :
 BNA_F
 ClientSampleId :
 E2-R-S-12-13-BASE

Tot Ion	Ratio	Lower	Upper
188	100		
94	10.7	9.4	14.2
80	11.9	10.2	15.2

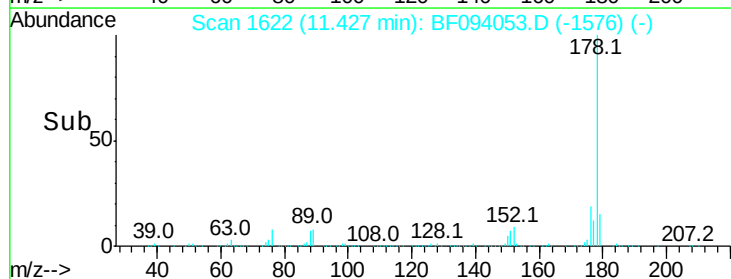
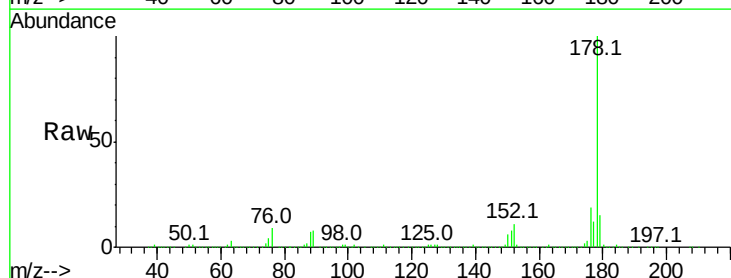
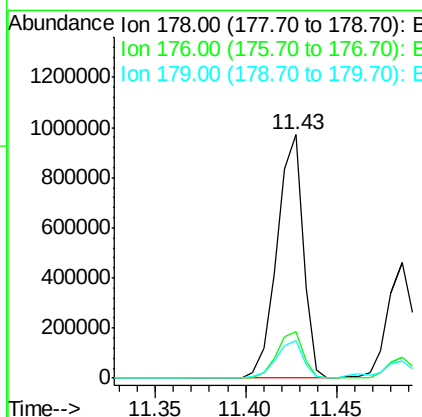
Manual Integrations
 APPROVED

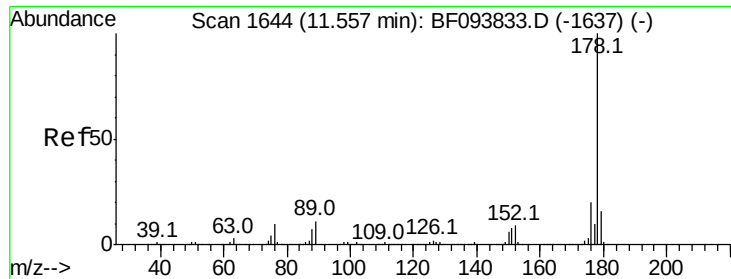
mohammad
 3/30/2017 2:32:35 PM



#70
 Phenanthrene
 Concen: 41.80 ng
 RT: 11.43 min Scan# 1622
 Delta R.T. -0.03 min
 Lab File: BF094053.D
 Acq: 30 Mar 2017 9:02

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.0	16.2	24.4
179	15.3	12.6	19.0





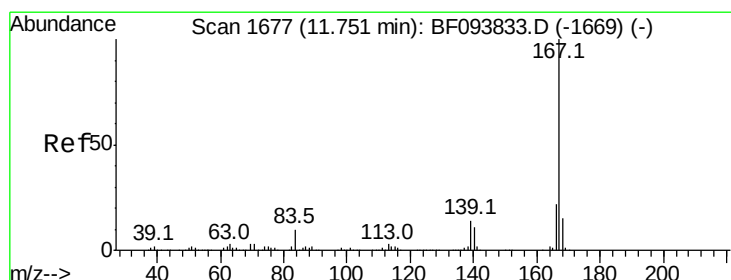
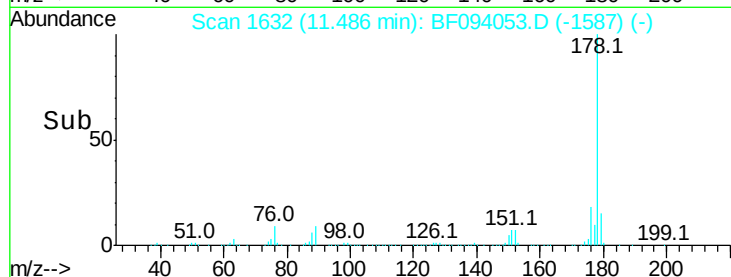
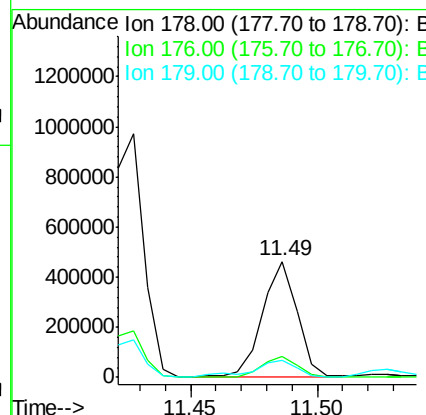
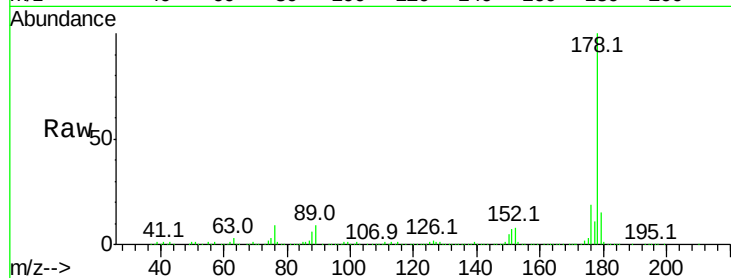
#71
 Anthracene
 Concen: 18.36 ng
 RT: 11.49 min Scan# 1632
 Delta R.T. -0.04 min
 Lab File: BF094053.D
 Acq: 30 Mar 2017 9:02

Instrument :
 BNA_F
 ClientSampleId :
 E2-R-S-12-13-BASE

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.6	15.8	23.8
179	15.1	12.7	19.1

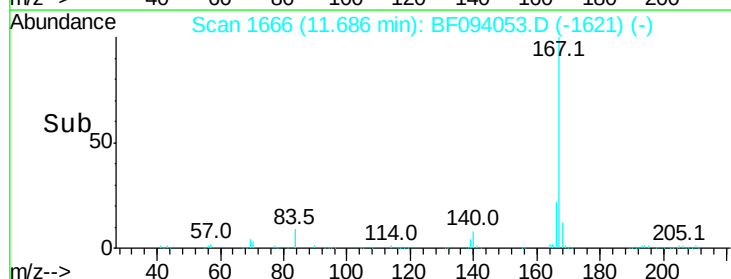
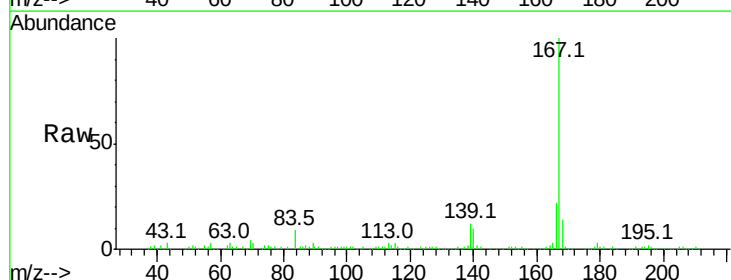
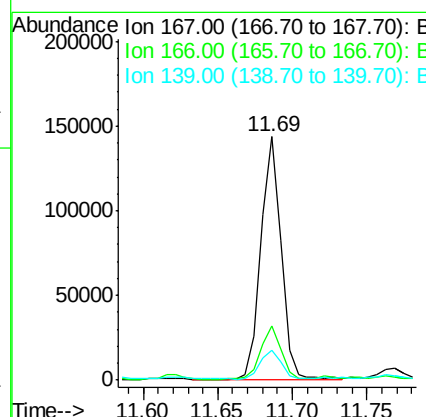
Manual Integrations
 APPROVED

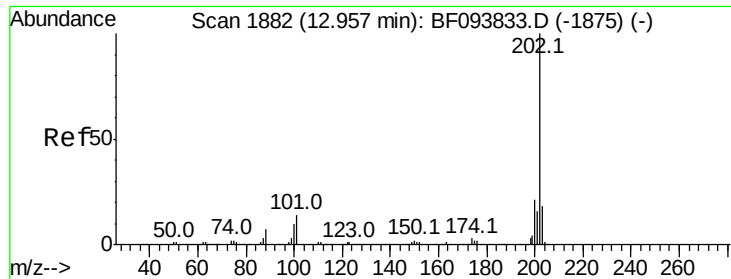
mohammad
 3/30/2017 2:32:35 PM



#72
 Carbazole
 Concen: 5.51 ng
 RT: 11.69 min Scan# 1666
 Delta R.T. -0.04 min
 Lab File: BF094053.D
 Acq: 30 Mar 2017 9:02

Tgt Ion	Ratio	Lower	Upper
167	100		
166	22.4	18.1	27.1
139	12.4	11.7	17.5





#74

Fluoranthene

Concen: 79.32 ng

RT: 12.90 min Scan# 1872

Delta R.T. -0.02 min

Lab File: BF094053.D

Acq: 30 Mar 2017 9:02

Instrument :

BNA_F

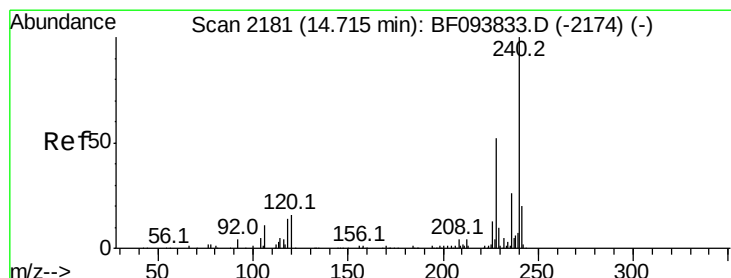
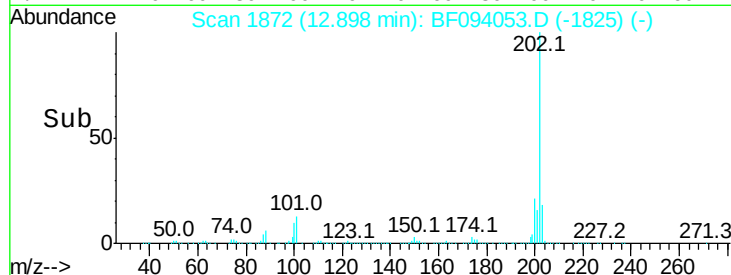
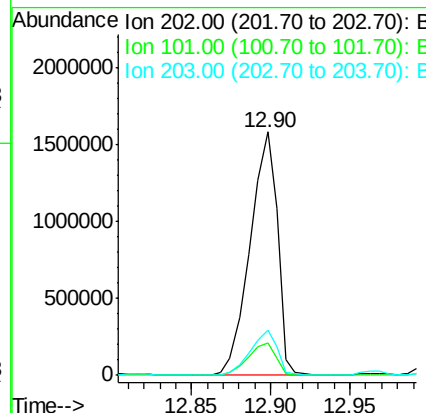
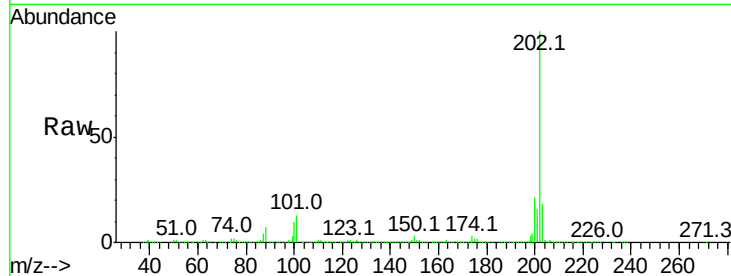
ClientSampleId :

E2-R-S-12-13-BASE

Tot Ion:	202	Resp:	1895675
Ion	Ratio	Lower	Upper
202	100		
101	13.4	0.0	33.2
203	18.4	0.0	38.1

Manual Integrations
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mohammad
3/30/2017 2:32:35 PM



#75

Chrysene-d12

Concen: 20.00 ng

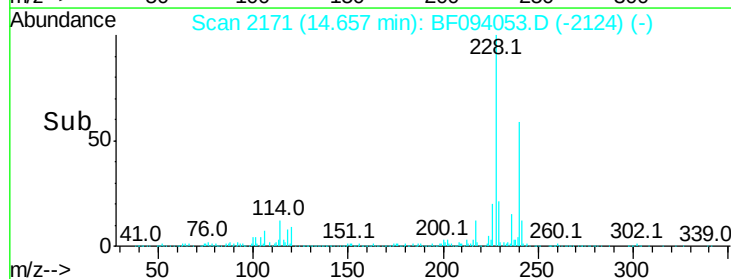
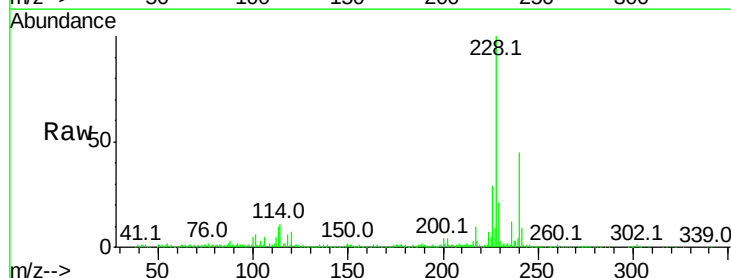
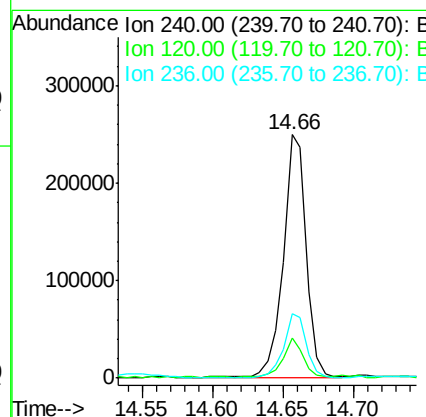
RT: 14.66 min Scan# 2171

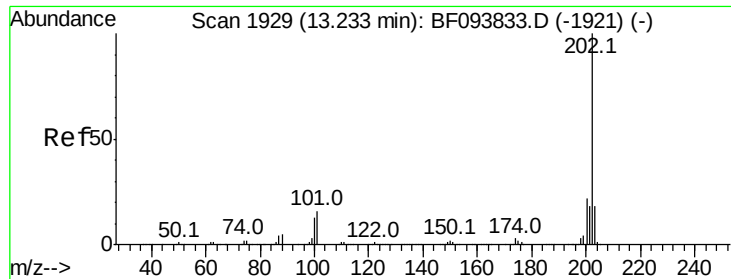
Delta R.T. -0.02 min

Lab File: BF094053.D

Acq: 30 Mar 2017 9:02

Tgt Ion:	240	Resp:	280462
Ion	Ratio	Lower	Upper
240	100		
120	16.3	5.8	8.8#
236	26.3	20.5	30.7





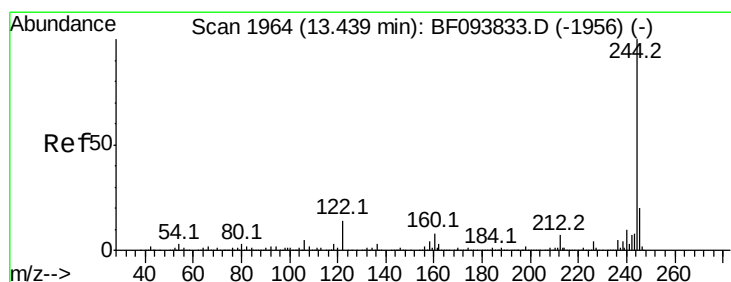
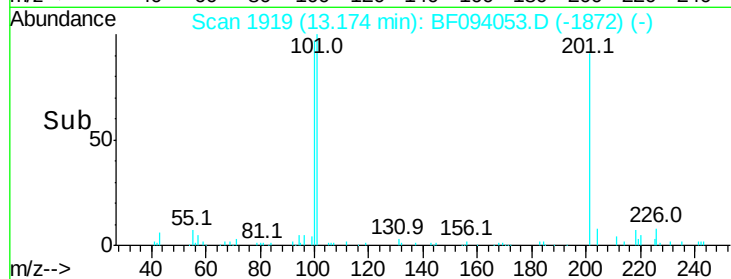
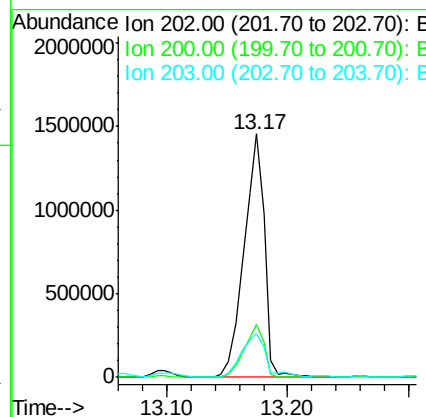
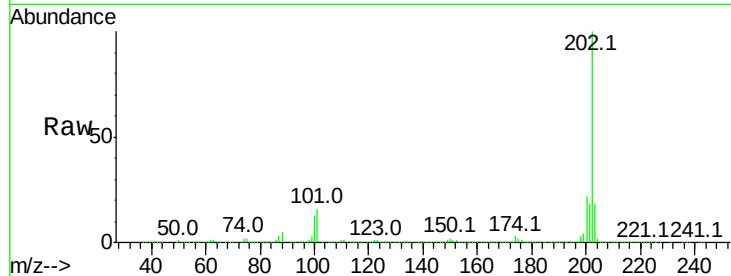
#77
Pvrene
Concen: 83.16 ng
RT: 13.17 min Scan# 1919
Delta R.T. -0.02 min
Lab File: BF094053.D
Acq: 30 Mar 2017 9:02

Instrument :
BNA_F
ClientSampleId :
E2-R-S-12-13-BASE

Tot Ion	Ratio	Lower	Upper
202	100		
200	21.8	17.6	26.4
203	17.9	14.4	21.6

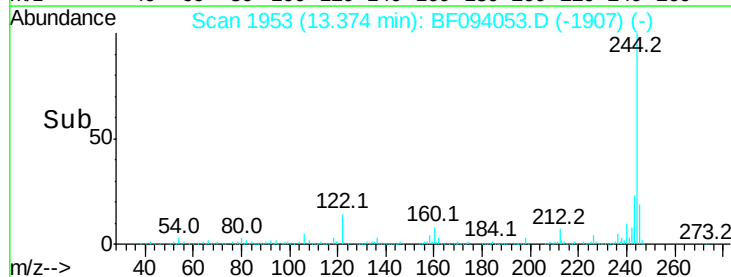
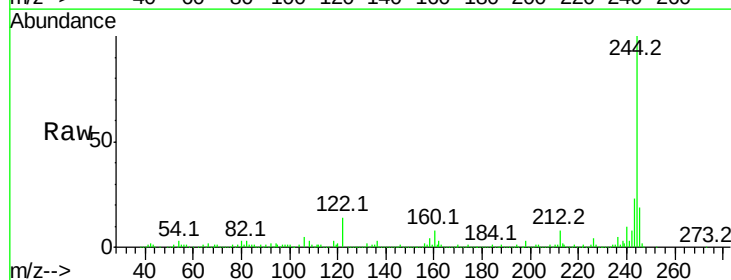
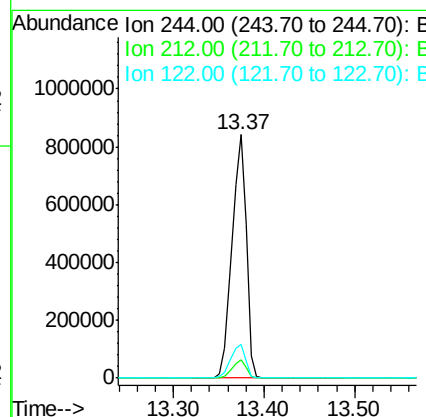
Manual Integrations
APPROVED

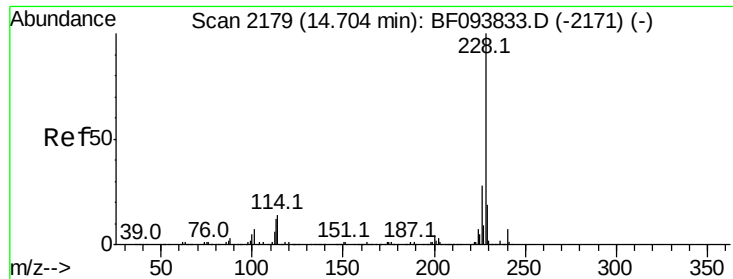
mohammad
3/30/2017 2:32:35 PM



#78
Terphenyl-d14
Concen: 73.55 ng
RT: 13.37 min Scan# 1953
Delta R.T. -0.03 min
Lab File: BF094053.D
Acq: 30 Mar 2017 9:02

Tgt Ion	Ratio	Lower	Upper
244	100		
212	7.5	6.0	9.0
122	14.0	10.3	15.5





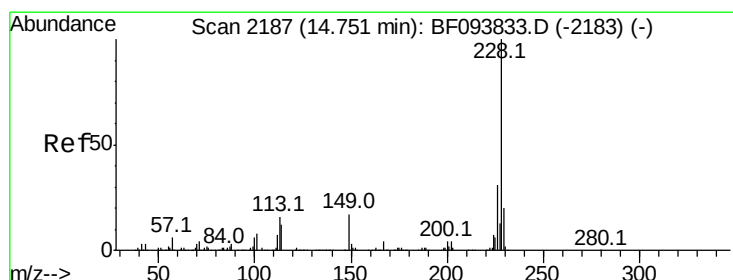
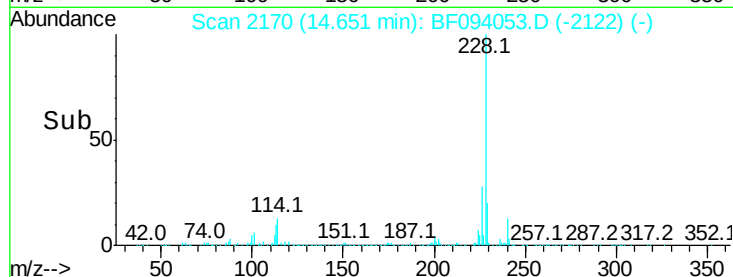
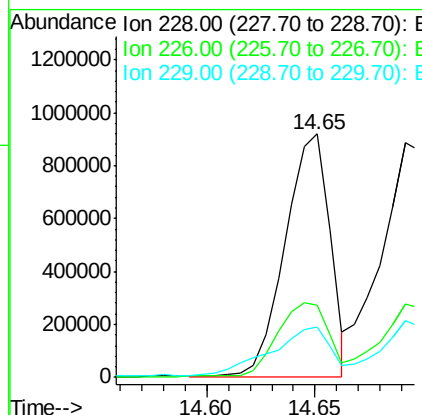
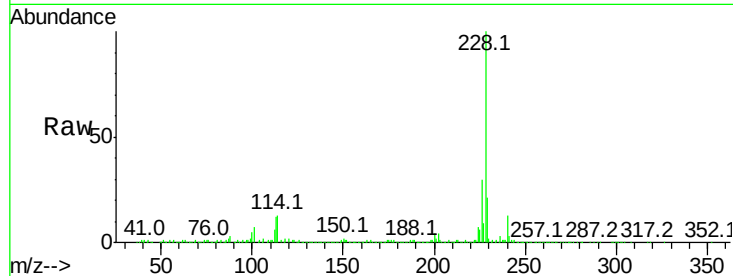
#80
Benzo(a)anthracene
Concen: 81.83 ng m
RT: 14.65 min Scan# 2170
Delta R.T. -0.02 min
Lab File: BF094053.D
Acq: 30 Mar 2017 9:02

Instrument :
BNA_F
ClientSampleId :
E2-R-S-12-13-BASE

Tot Ion:228 Resp: 1338345
Ion Ratio Lower Upper
228 100
226 29.6 22.6 33.8
229 20.7 16.3 24.5

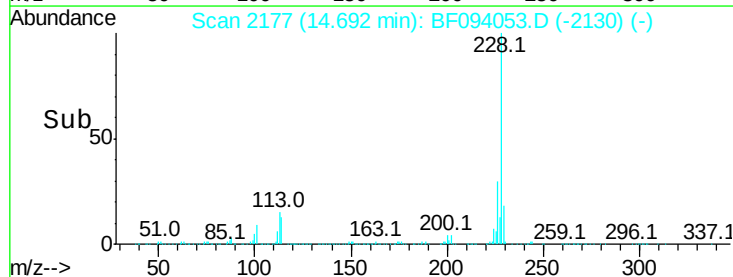
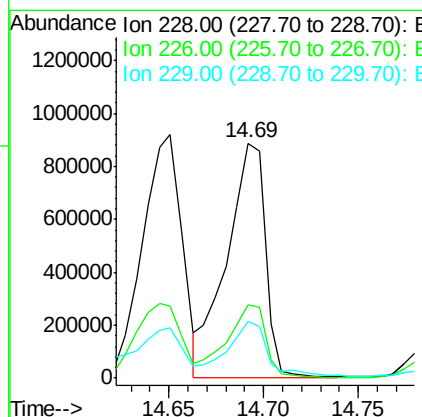
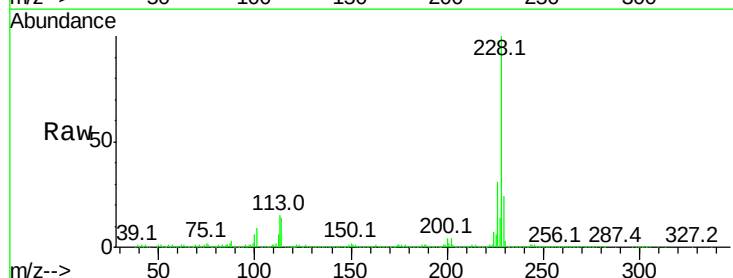
Manual Integrations
APPROVED

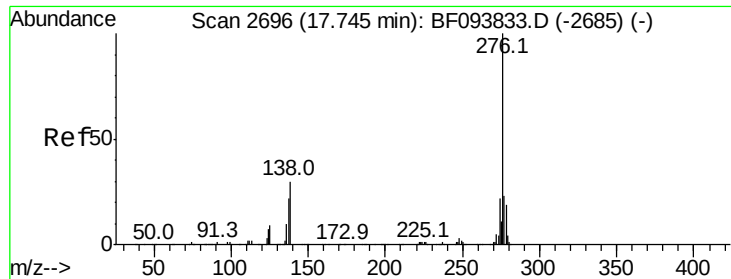
mohammad
3/30/2017 2:32:35 PM



#82
Chrysene
Concen: 83.70 ng m
RT: 14.69 min Scan# 2177
Delta R.T. -0.02 min
Lab File: BF094053.D
Acq: 30 Mar 2017 9:02

Tgt Ion:228 Resp: 1270370
Ion Ratio Lower Upper
228 100
226 31.1 24.9 37.3
229 24.0 15.8 23.6#





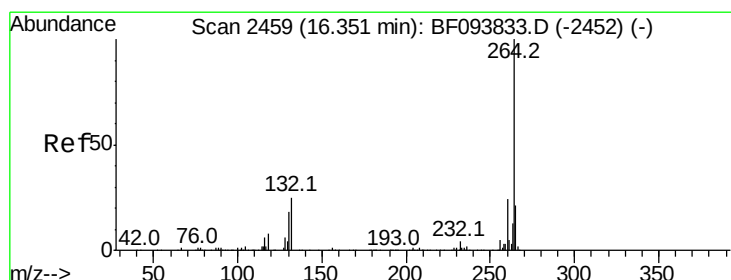
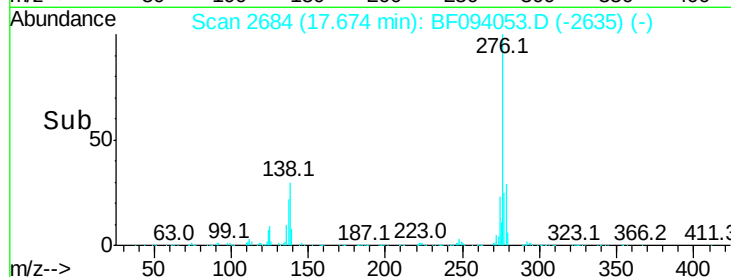
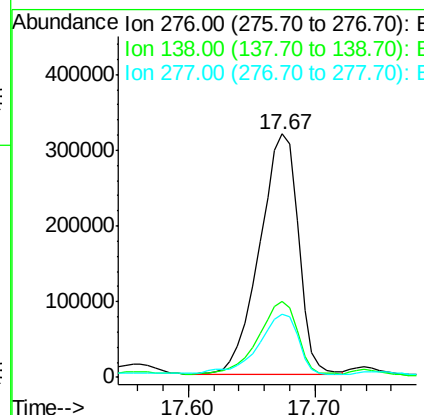
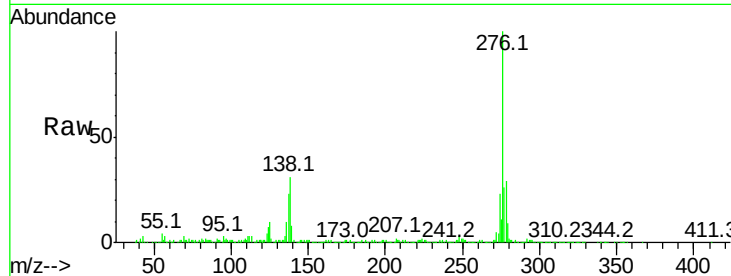
#85
Indeno(1,2,3-cd)pyrene
Concen: 51.23 ng
RT: 17.67 min Scan# 2684
Delta R.T. -0.01 min
Lab File: BF094053.D
Acq: 30 Mar 2017 9:02

Instrument :
BNA_F
ClientSampleId :
E2-R-S-12-13-BASE

Tot Ion	Ratio	Lower	Upper
276	100		
138	30.4	27.8	41.6
277	26.7	20.2	30.4

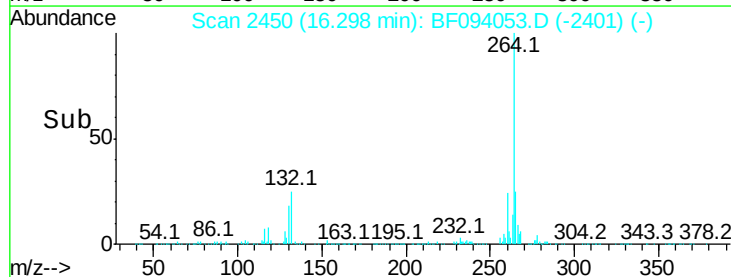
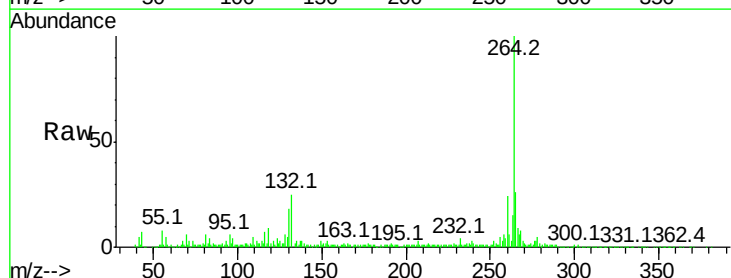
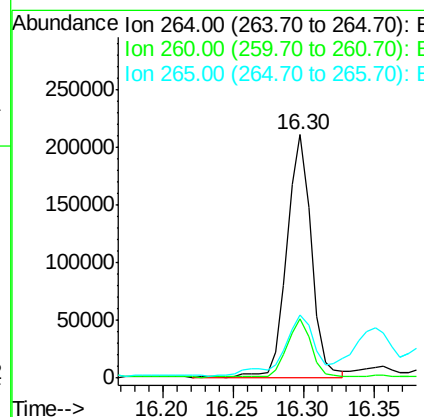
Manual Integrations
APPROVED

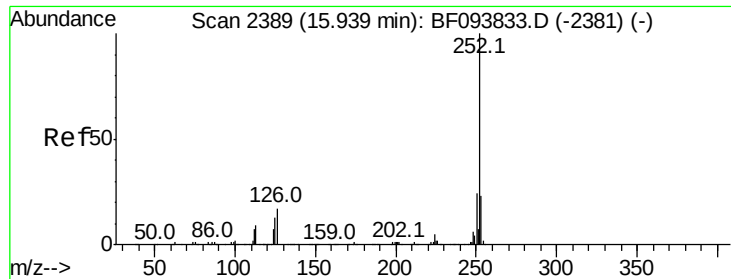
mohammad
3/30/2017 2:32:35 PM



#86
Perylene-d12
Concen: 20.00 ng
RT: 16.30 min Scan# 2450
Delta R.T. -0.01 min
Lab File: BF094053.D
Acq: 30 Mar 2017 9:02

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.2	19.5	29.3
265	25.8	17.2	25.8





#87

Benzo(b)fluoranthene

Concen: 115.00 ng m

RT: 15.90 min Scan# 2382

Delta R.T. 0.00 min

Lab File: BF094053.D

Acq: 30 Mar 2017 9:02

Instrument :

BNA_F

ClientSampleId :

E2-R-S-12-13-BASE

Tot Ion:252 Resp: 1781308

Ion Ratio Lower Upper

252 100

253 23.2 18.1 27.1

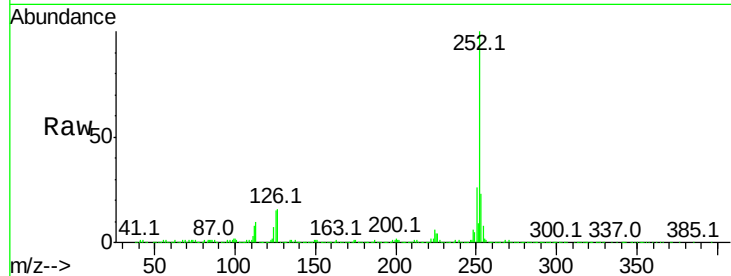
125 14.8 9.8 14.8#

Manual Integrations

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mohammad

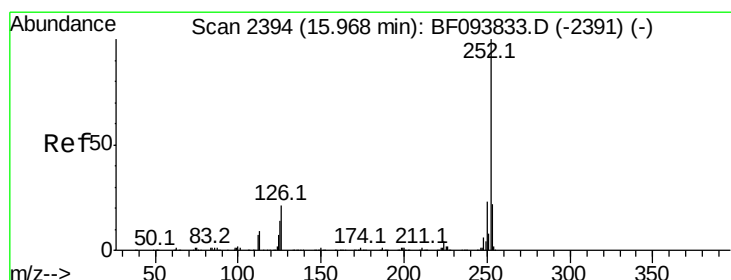
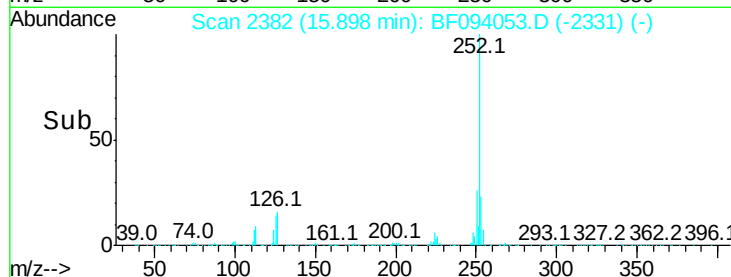
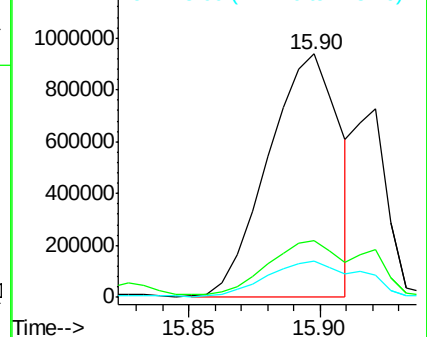
3/30/2017 2:32:35 PM



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: 41.11 ng m

RT: 15.92 min Scan# 2386

Delta R.T. -0.01 min

Lab File: BF094053.D

Acq: 30 Mar 2017 9:02

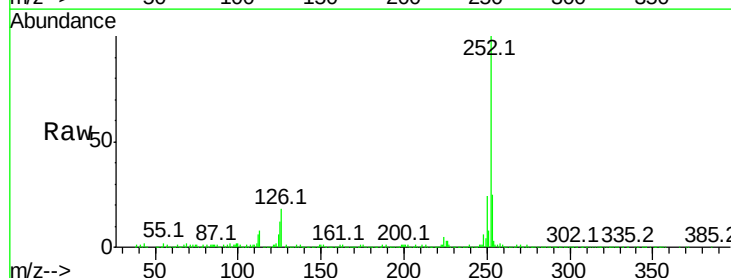
Tgt Ion:252 Resp: 623028

Ion Ratio Lower Upper

252 100

253 25.0 18.4 27.6

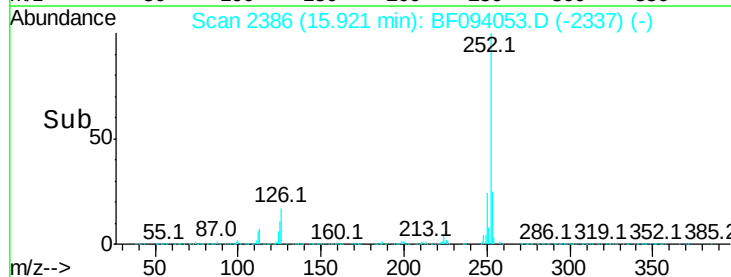
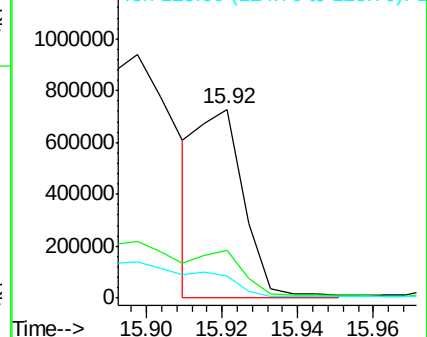
125 11.6 13.1 19.7#

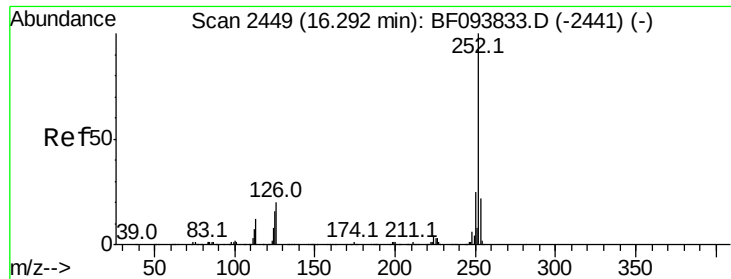


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





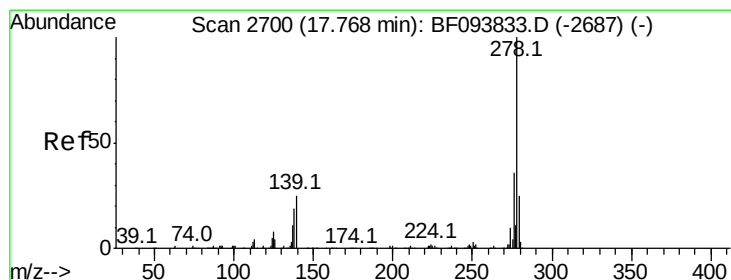
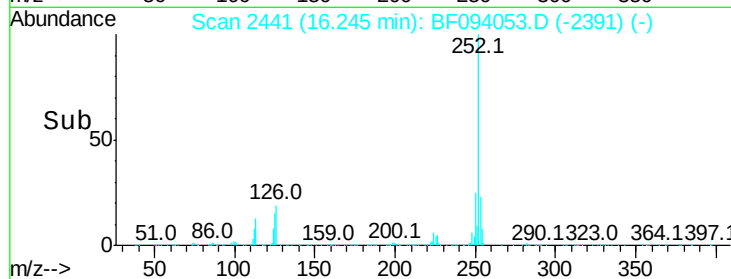
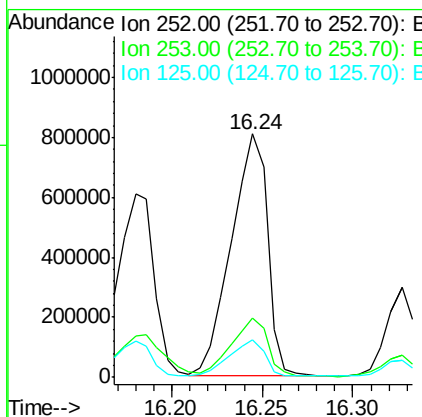
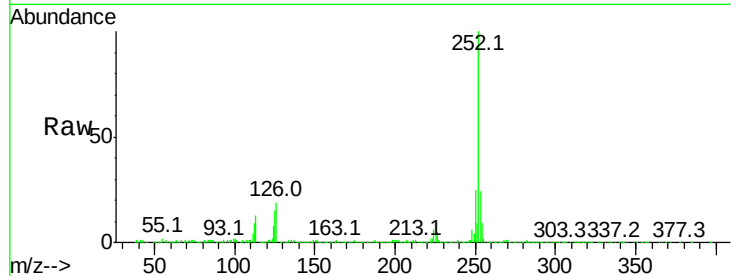
#89
Benzo(a)pyrene
Concen: 78.78 ng
RT: 16.24 min Scan# 2441
Delta R.T. -0.01 min
Lab File: BF094053.D
Acq: 30 Mar 2017 9:02

Instrument :
BNA_F
ClientSampleId :
E2-R-S-12-13-BASE

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.3	17.5	26.3
125	15.2	11.0	16.4

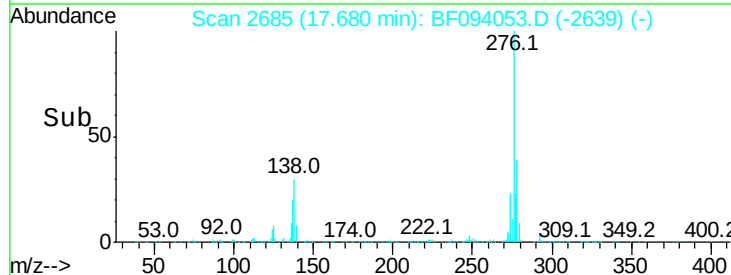
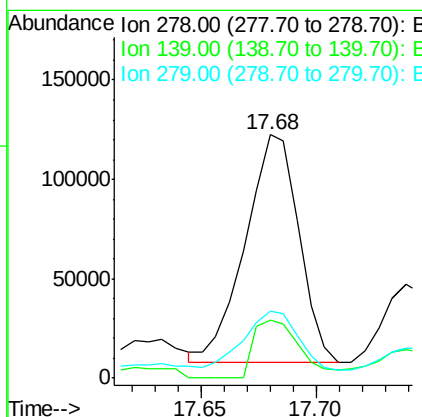
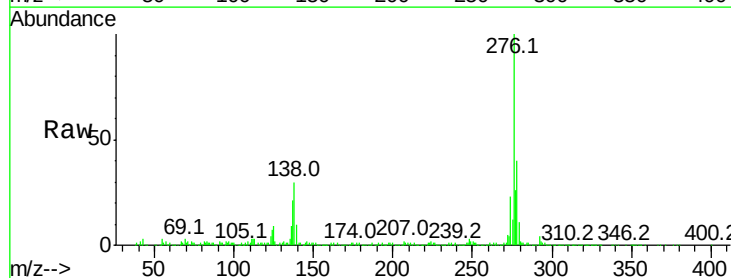
Manual Integrations
APPROVED

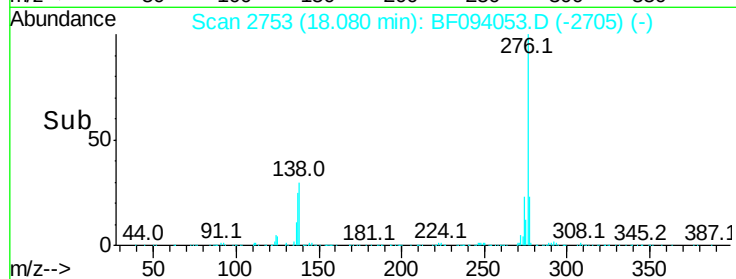
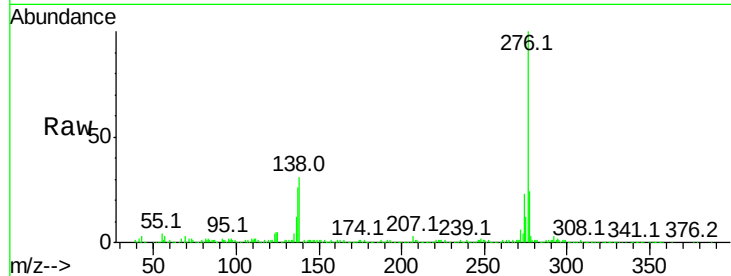
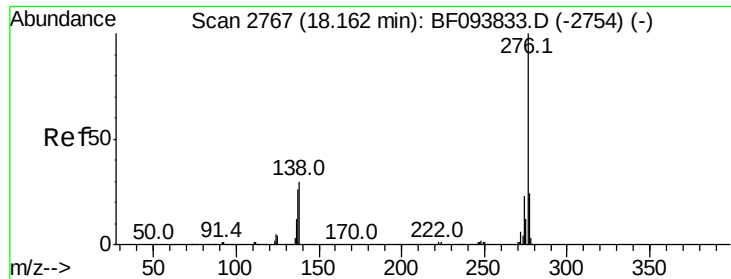
mohammad
3/30/2017 2:32:35 PM



#90
Dibenzo(a,h)anthracene
Concen: 15.37 ng
RT: 17.68 min Scan# 2685
Delta R.T. -0.03 min
Lab File: BF094053.D
Acq: 30 Mar 2017 9:02

Tgt Ion	Ratio	Lower	Upper
278	100		
139	24.1	16.6	24.8
279	27.7	19.3	28.9





#91

Benzo(a,h,i)perylene

Concen: 47.67 ng

RT: 18.08 min Scan# 2753

Delta R.T. -0.02 min

Lab File: BF094053.D

Acq: 30 Mar 2017 9:02

Instrument :

BNA_F

ClientSampleId :

E2-R-S-12-13-BASE

Tot Ion	Ratio	Lower	Upper
276	100		
277	24.1	18.6	28.0
138	30.8	25.4	38.0

Manual Integrations
APPROVED

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