

Data Path : Z:\HPCHEM1\BNA F\DATA\BF033117\
 Data File : BF094116.D
 Acq On : 1 Apr 2017 2:45
 Operator : SJ/MA
 Sample : I2458-03 5X
 Misc :
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 B-42-S1(1.0-1.5)

Manual Integrations
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 4/3/2017 4:00:28 PM

Quant Time: Apr 01 04:13:55 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032217.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Mar 31 14:38:29 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.90	152	172413	20.00	ng	0.00
21) Naphthalene-d8	7.40	136	664812	20.00	ng	0.00
38) Acenaphthene-d10	9.55	164	266681	20.00	ng	0.00
63) Phenanthrene-d10	11.37	188	399420	20.00	ng	0.00
75) Chrysene-d12	14.64	240	288976	20.00	ng	0.01
86) Perylene-d12	16.27	264	259307	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	4.43	112	210513	20.62	ng	0.00
7) Phenol-d6	5.50	99	277781	22.00	ng	0.00
23) Nitrobenzene-d5	6.54	82	79678	6.84	ng	-0.02
41) 2,4,6-Tribromophenol	10.52	330	15839	7.52	ng	0.00
44) 2-Fluorobiphenyl	8.73	172	315631	18.05	ng	0.00
78) Terphenyl-d14	13.35	244	165122	12.81	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	7.43	128	113928	3.56	ng	100
37) 2-Methylnaphthalene	8.27	142	70552	3.31	ng	97
48) Acenaphthylene	9.37	152	61439	2.20	ng	97
51) Acenaphthene	9.59	154	407329	24.95	ng	99
54) Dibenzofuran	9.80	168	241810	10.88	ng	98
57) Fluorene	10.22	166	444610	24.12	ng	98
70) Phenanthrene	11.42	178	3274443	147.37	ng	100
71) Anthracene	11.47	178	1115488	48.76	ng	99
72) Carbazole	11.67	167	344155	14.67	ng	99
74) Fluoranthene	12.89	202	3901158	171.47	ng	100
77) Pyrene	13.17	202	3307316	157.70	ng	99
80) Benzo(a)anthracene	14.63	228	1758865	104.38	ng	98
82) Chrysene	14.67	228	1590927	101.74	ng	97
85) Indeno(1,2,3-cd)pyrene	17.63	276	692568	51.14	ng	92
87) Benzo(b)fluoranthene	15.87	252	1804498m	113.53	ng	
88) Benzo(k)fluoranthene	15.89	252	550632m	35.41	ng	
89) Benzo(a)pyrene	16.22	252	1203592	82.23	ng	99
90) Dibenzo(a,h)anthracene	17.63	278	169905m	13.71	ng	
91) Benzo(a,h,i)perylene	18.03	276	636691	50.97	ng	97

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

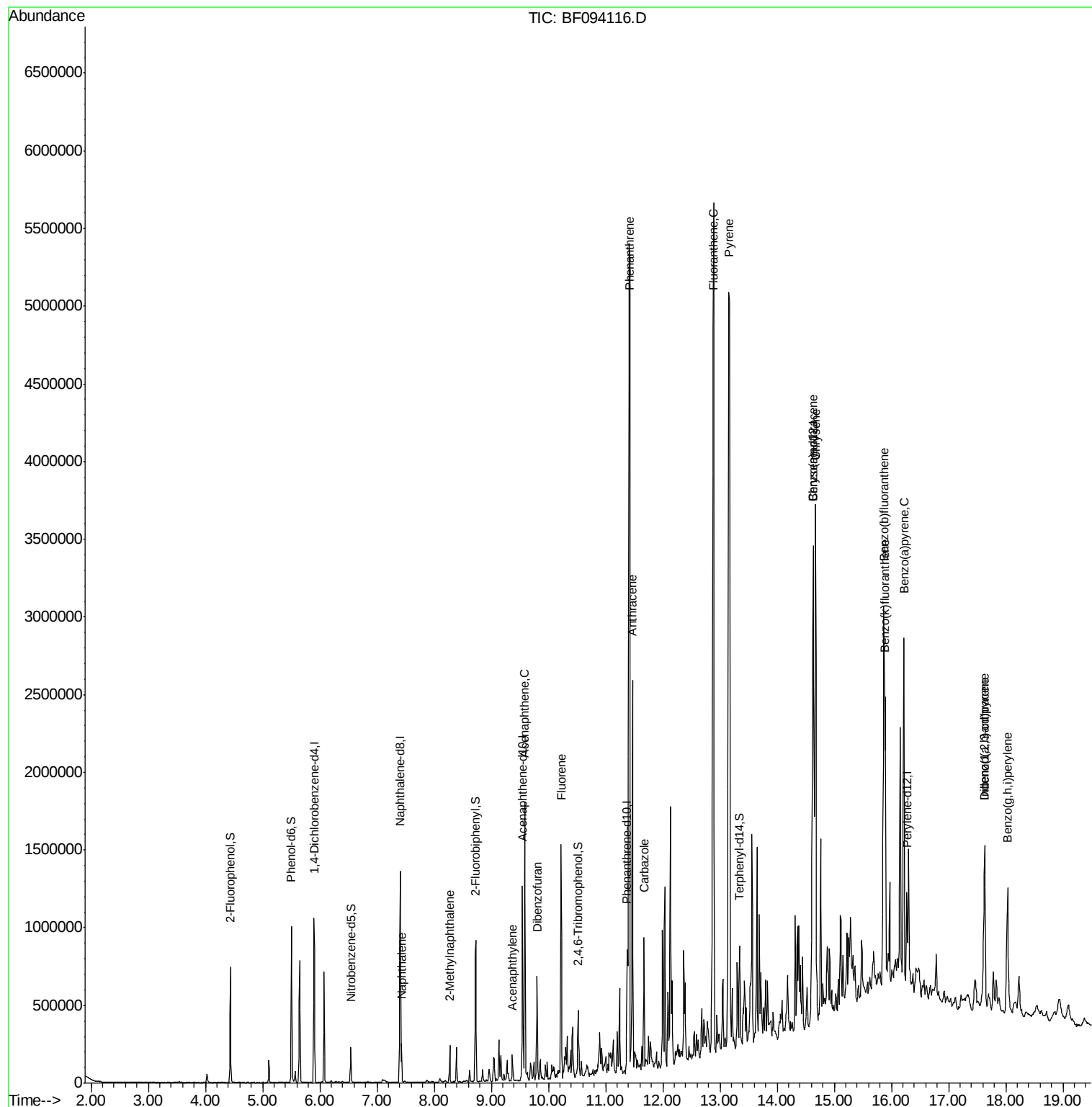
Data Path : Z:\HPCHEM1\BNA F\DATA\BF033117\
Data File : BF094116.D
Acq On : 1 Apr 2017 2:45
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Misc :
ALS Vial : 28 Sample Multiplier: 1

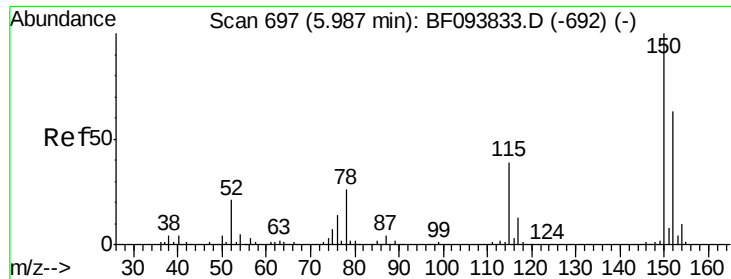
Instrument :
BNA_F
ClientSampleId :
B-42-S1(1.0-1.5)

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

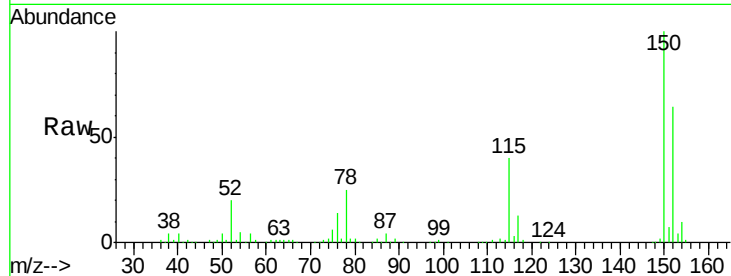
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 5.90 min Scan# 682
Delta R.T. -0.01 min
Lab File: BF094116.D
Acq: 1 Apr 2017 2:45

Instrument :
BNA_F
ClientSampleId :
B-42-S1(1.0-1.5)

Tot Ion	Ratio	Lower	Upper
152	100		
150	156.2	126.2	189.2
115	62.6	52.2	78.2

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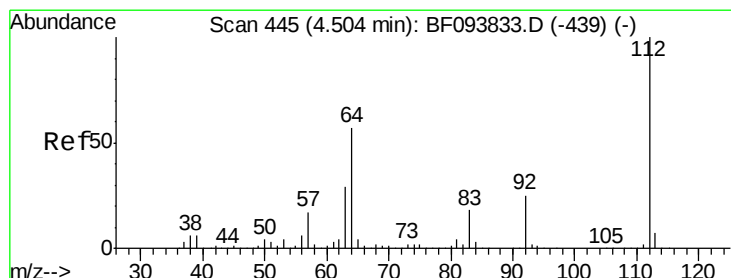
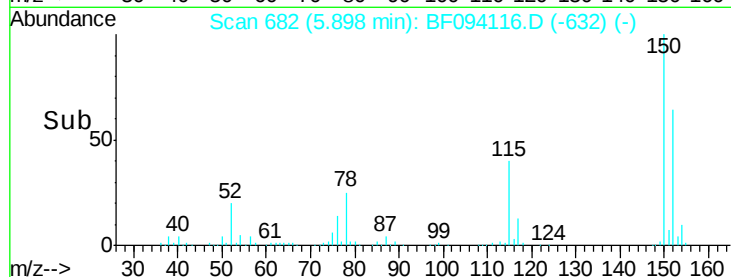
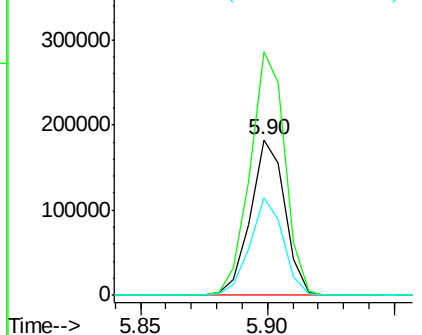


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

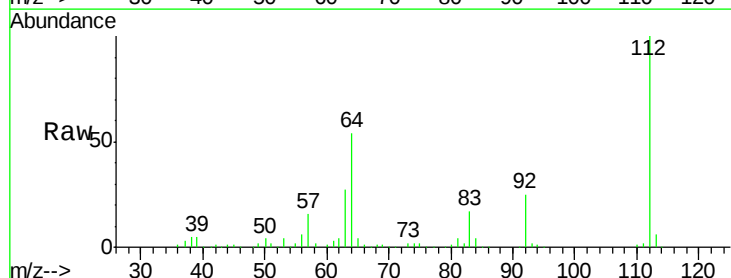
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 20.62 ng
RT: 4.43 min Scan# 433
Delta R.T. -0.00 min
Lab File: BF094116.D
Acq: 1 Apr 2017 2:45

Tgt Ion	Ratio	Lower	Upper
112	100		
64	54.1	46.0	69.0
63	26.5	23.4	35.0

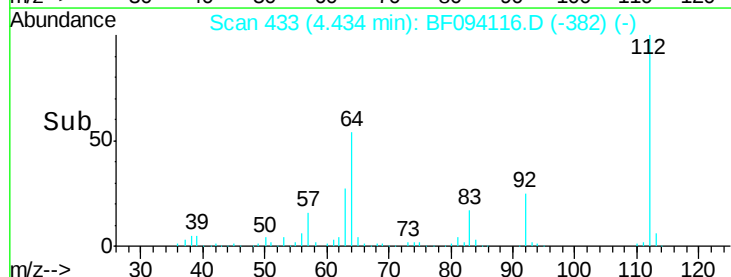
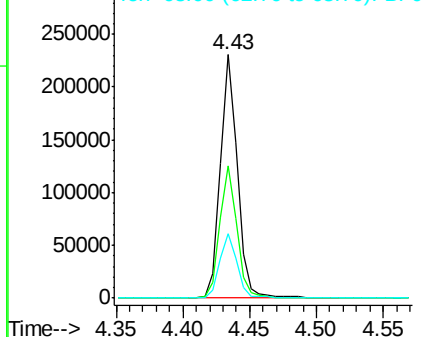


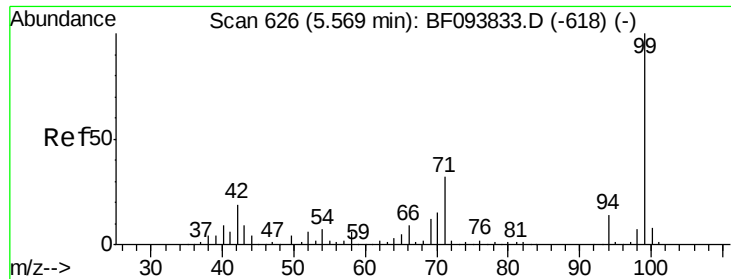
Abundance

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: 22.00 ng

RT: 5.50 min Scan# 615

Delta R.T. -0.01 min

Lab File: BF094116.D

Acq: 1 Apr 2017 2:45

Instrument :

BNA_F

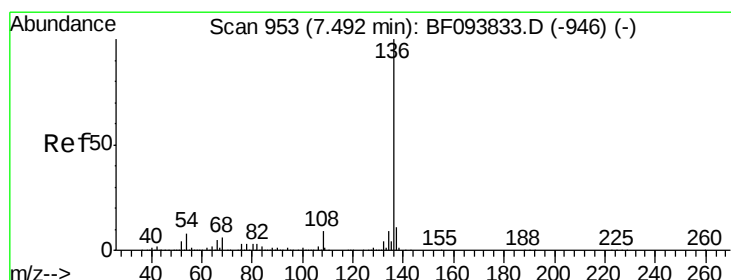
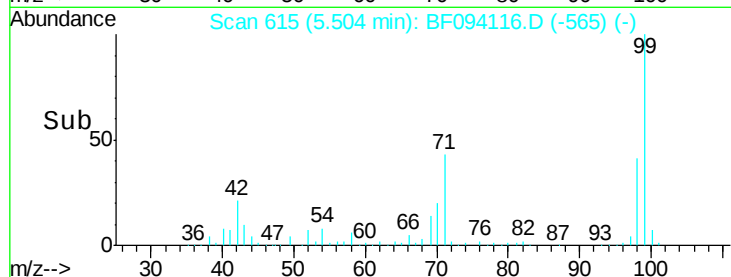
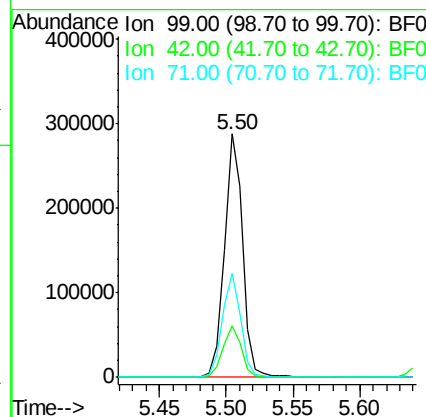
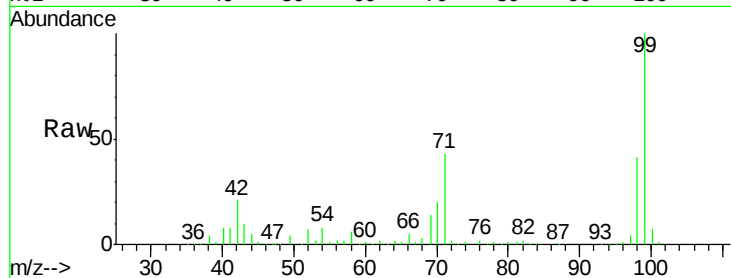
ClientSampleId :

B-42-S1(1.0-1.5)

Tot Ion:	99	Resp:	277781
Ion Ratio	Lower	Upper	
99	100		
42	21.3	13.5	20.3#
71	42.8	24.5	36.7#

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#21

Naphthalene-d8

Concen: 20.00 ng

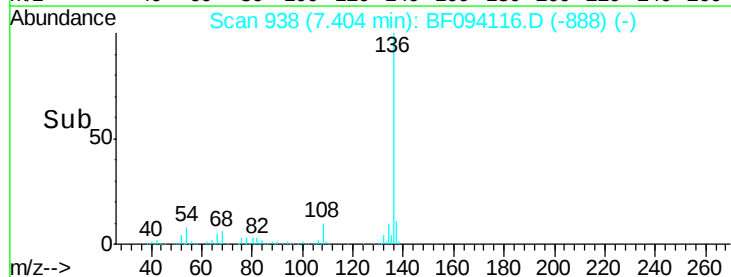
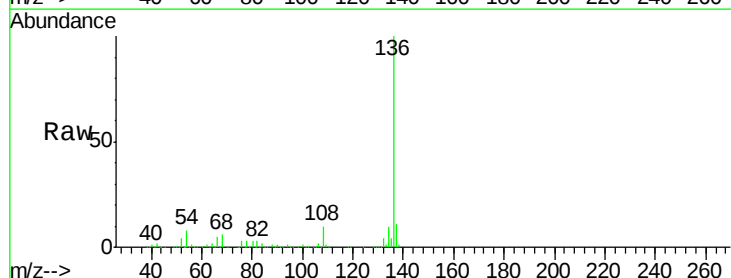
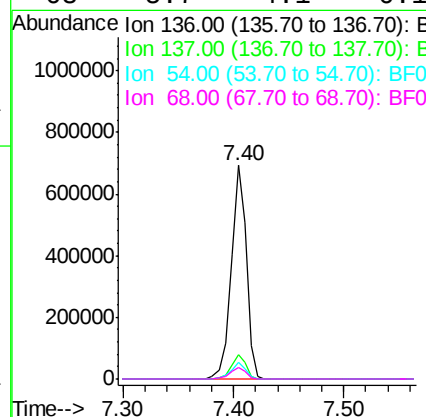
RT: 7.40 min Scan# 938

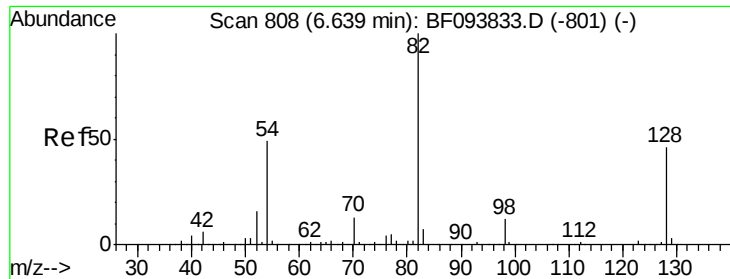
Delta R.T. -0.01 min

Lab File: BF094116.D

Acq: 1 Apr 2017 2:45

Tgt Ion:	136	Resp:	664812
Ion Ratio	Lower	Upper	
136	100		
137	11.2	8.5	12.7
54	7.5	4.9	7.3#
68	5.7	4.1	6.1





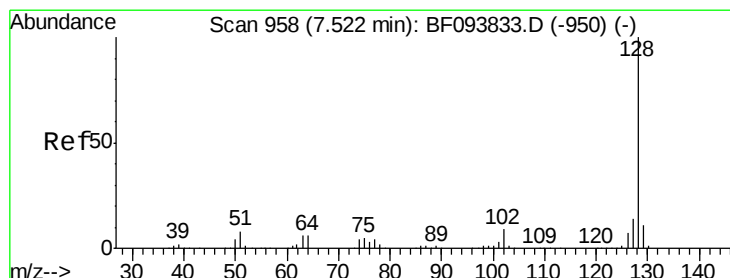
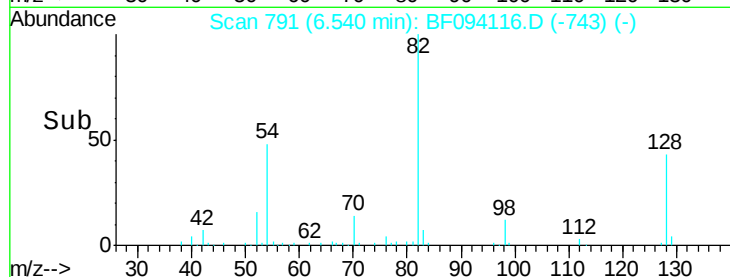
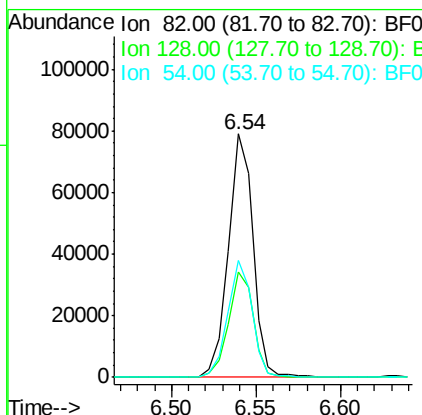
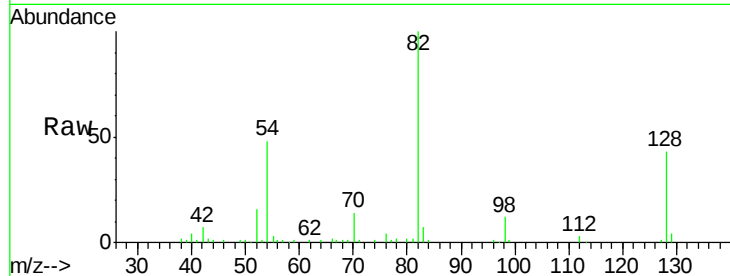
#23
 Nitrobenzene-d5
 Concen: 6.84 ng
 RT: 6.54 min Scan# 791
 Delta R.T. -0.02 min
 Lab File: BF094116.D
 Acq: 1 Apr 2017 2:45

Instrument :
 BNA_F
 ClientSampled :
 B-42-S1(1.0-1.5)

Tot Ion	82	Resp	79678
Ion Ratio	100	Lower	Upper
82	100		
128	43.4	34.0	51.0
54	48.2	42.2	63.2

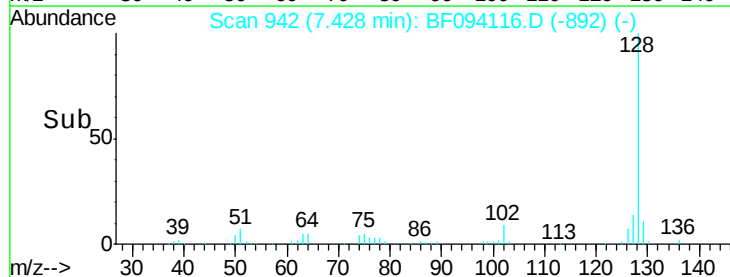
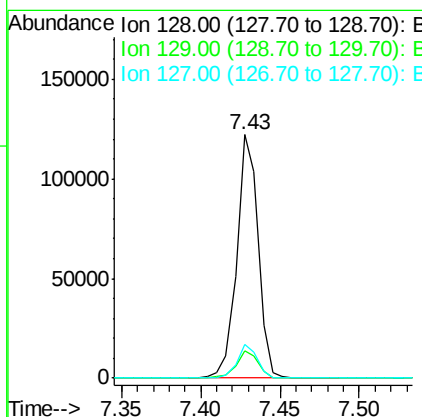
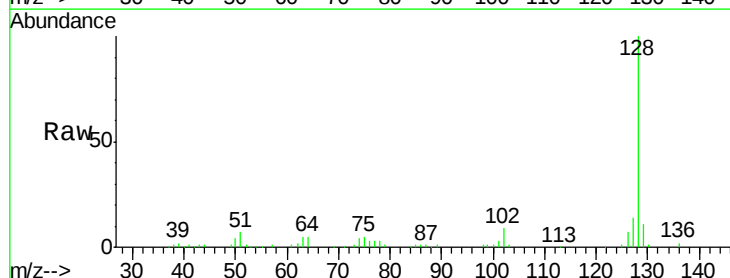
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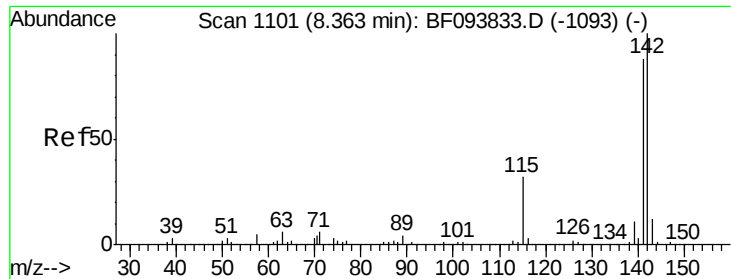
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#31
 Naphthalene
 Concen: 3.56 ng
 RT: 7.43 min Scan# 942
 Delta R.T. -0.01 min
 Lab File: BF094116.D
 Acq: 1 Apr 2017 2:45

Tgt Ion	128	Resp	113928
Ion Ratio	100	Lower	Upper
128	100		
129	11.3	9.0	13.6
127	13.7	10.8	16.2





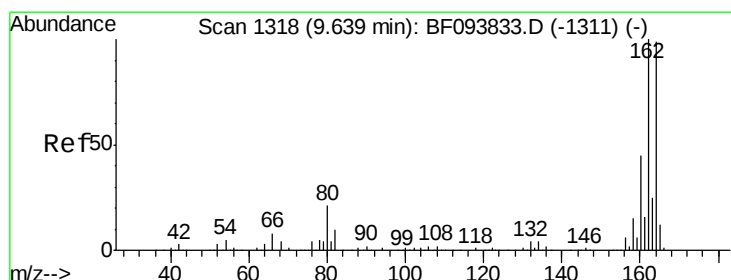
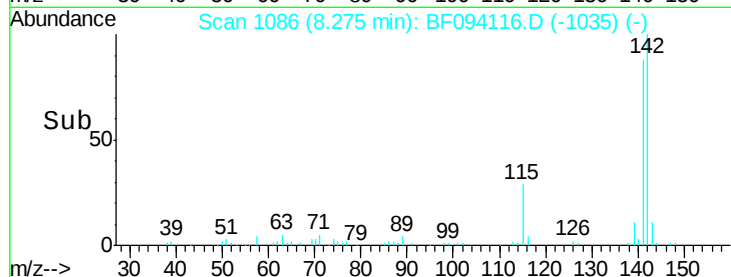
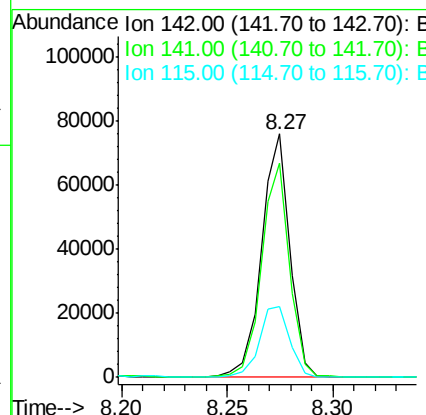
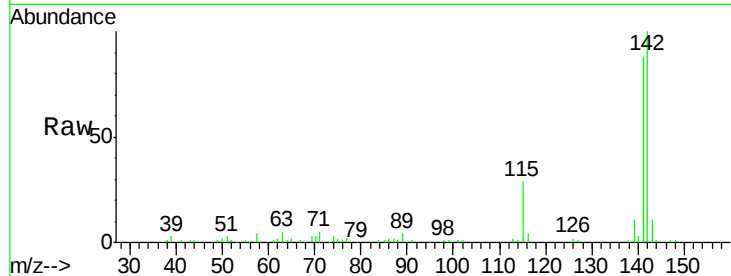
#37
2-Methylnaphthalene
Concen: 3.31 ng
RT: 8.27 min Scan# 1086
Delta R.T. -0.00 min
Lab File: BF094116.D
Acq: 1 Apr 2017 2:45

Instrument :
BNA_F
ClientSampleId :
B-42-S1(1.0-1.5)

Tot Ion	Ratio	Lower	Upper
142	100		
141	88.2	71.3	106.9
115	29.2	27.1	40.7

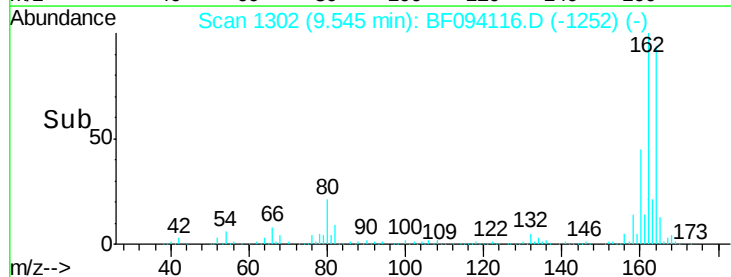
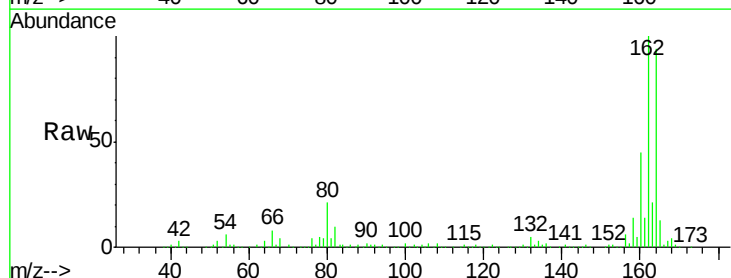
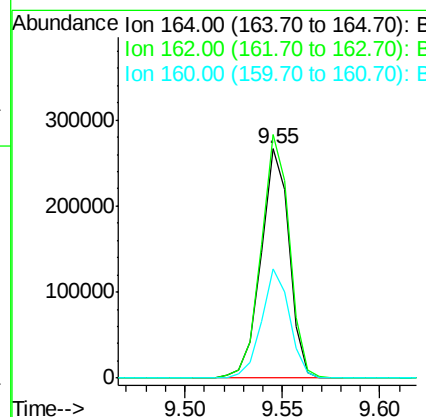
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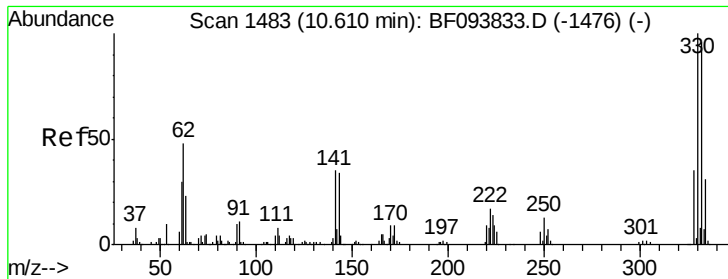
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.55 min Scan# 1302
Delta R.T. -0.01 min
Lab File: BF094116.D
Acq: 1 Apr 2017 2:45

Tgt Ion	Ratio	Lower	Upper
164	100		
162	106.1	82.6	123.8
160	47.4	36.2	54.2





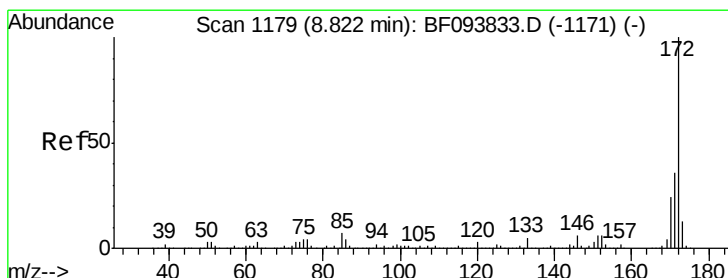
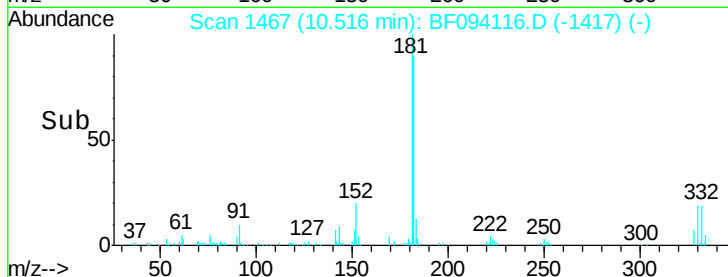
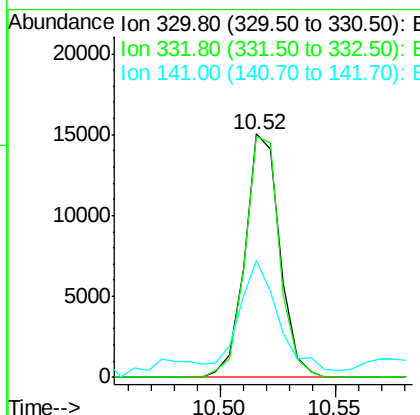
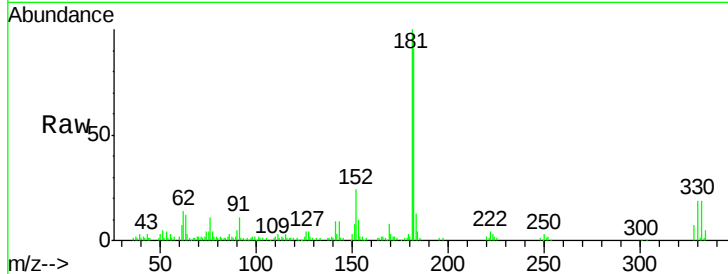
#41
 2,4,6-Tribromophenol
 Concen: 7.52 ng
 RT: 10.52 min Scan# 1467
 Delta R.T. -0.01 min
 Lab File: BF094116.D
 Acq: 1 Apr 2017 2:45

Instrument :
 BNA_F
 ClientSampleId :
 B-42-S1(1.0-1.5)

Tot Ion	Ratio	Lower	Upper
330	100		
332	98.4	76.6	115.0
141	49.1	31.4	47.2

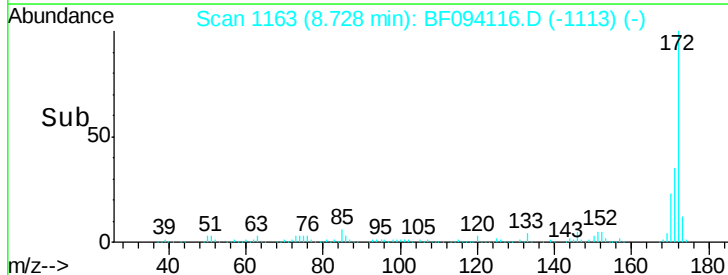
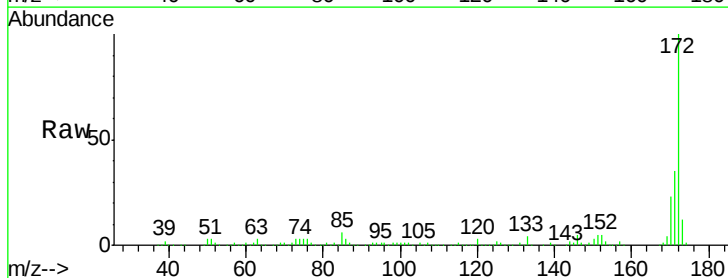
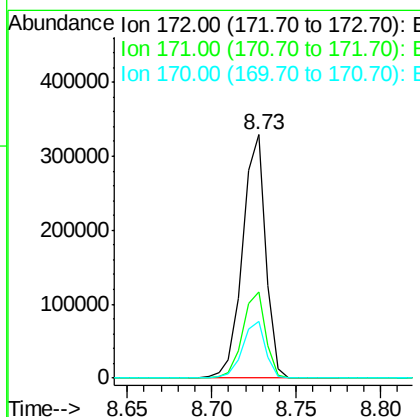
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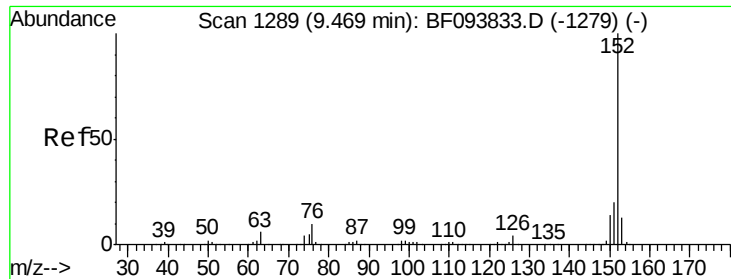
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#44
 2-Fluorobiphenyl
 Concen: 18.05 ng
 RT: 8.73 min Scan# 1163
 Delta R.T. -0.01 min
 Lab File: BF094116.D
 Acq: 1 Apr 2017 2:45

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.2	29.6	44.4
170	23.4	19.8	29.8





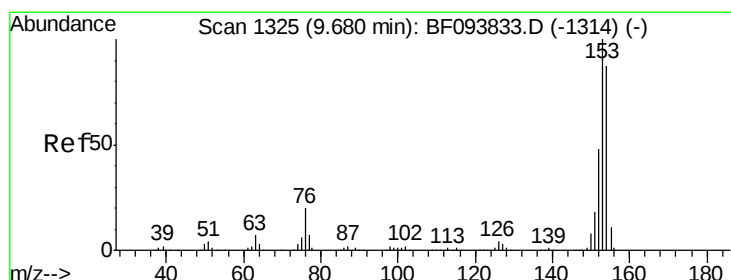
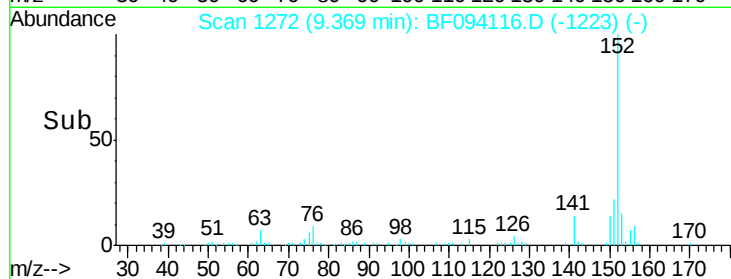
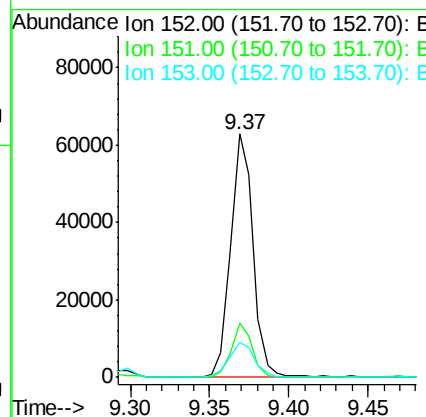
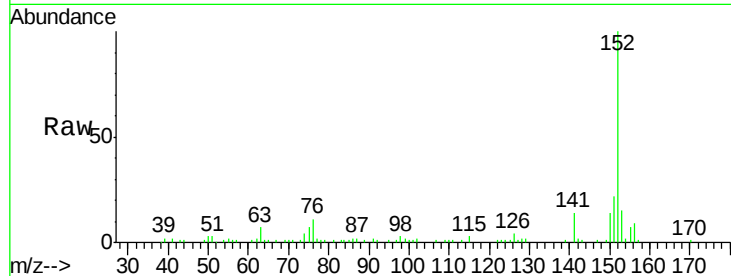
#48
Acenaphthylene
Concen: 2.20 ng
RT: 9.37 min Scan# 1272
Delta R.T. -0.01 min
Lab File: BF094116.D
Acq: 1 Apr 2017 2:45

Instrument :
BNA_F
ClientSampleId :
B-42-S1(1.0-1.5)

Tot Ion	Ratio	Lower	Upper
152	100		
151	22.4	16.8	25.2
153	14.6	10.8	16.2

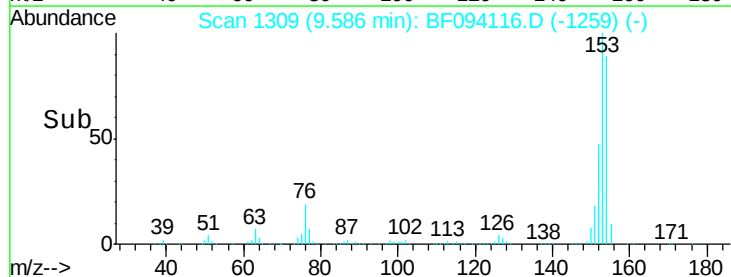
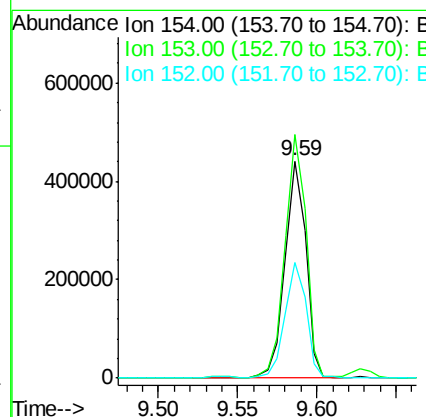
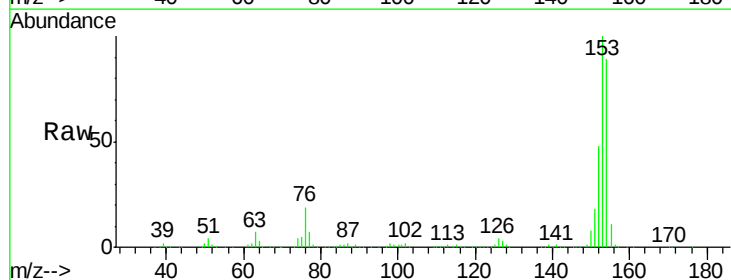
Manual Integrations
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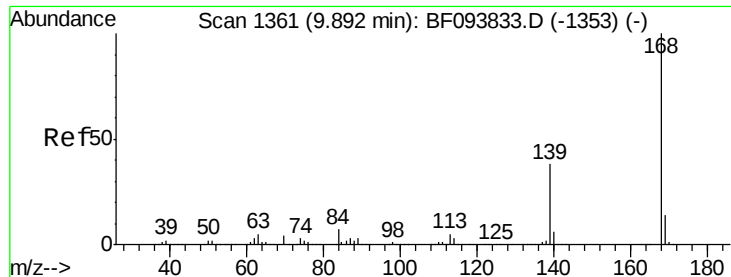
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#51
Acenaphthene
Concen: 24.95 ng
RT: 9.59 min Scan# 1309
Delta R.T. -0.01 min
Lab File: BF094116.D
Acq: 1 Apr 2017 2:45

Tgt Ion	Ratio	Lower	Upper
154	100		
153	112.1	90.5	135.7
152	53.5	43.6	65.4





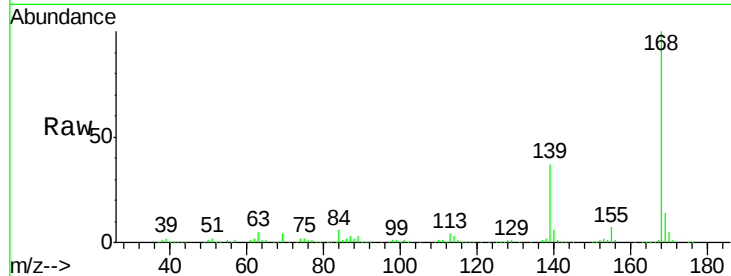
#54
Dibenzofuran
Concen: 10.88 ng
RT: 9.80 min Scan# 1345
Delta R.T. -0.01 min
Lab File: BF094116.D
Acq: 1 Apr 2017 2:45

Instrument :
BNA_F
ClientSampleId :
B-42-S1(1.0-1.5)

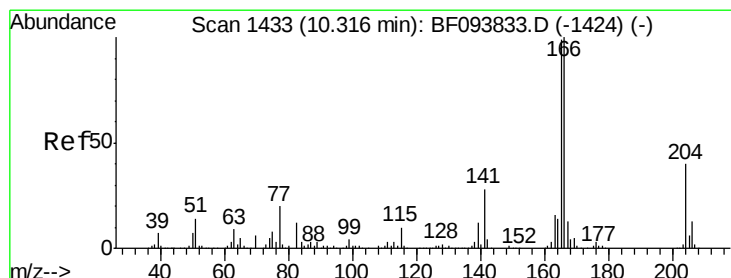
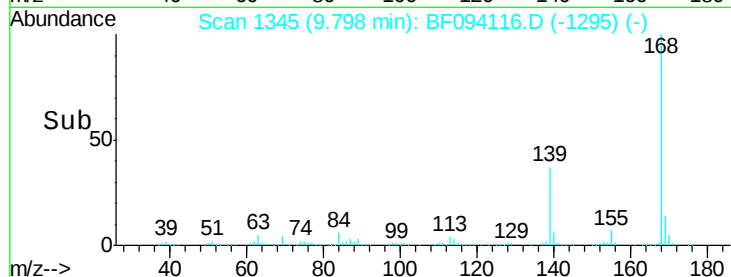
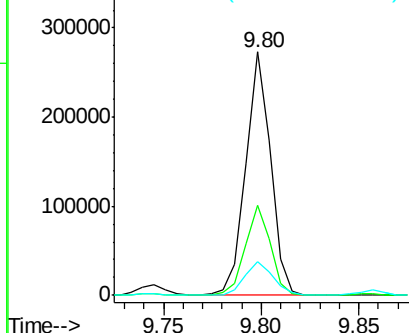
Tot Ion	Ratio	Resp Lower	Upper
168	100		
139	37.0	30.6	45.8
169	13.8	10.8	16.2

Manual Integrations
APPROVED

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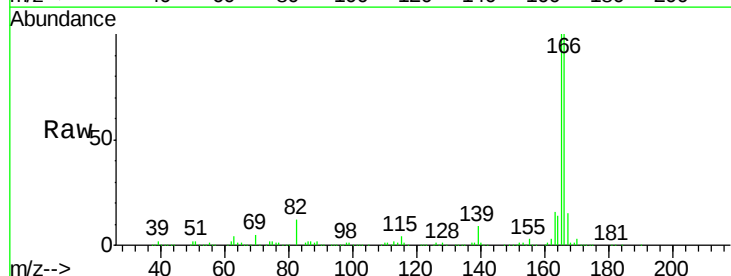


Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E

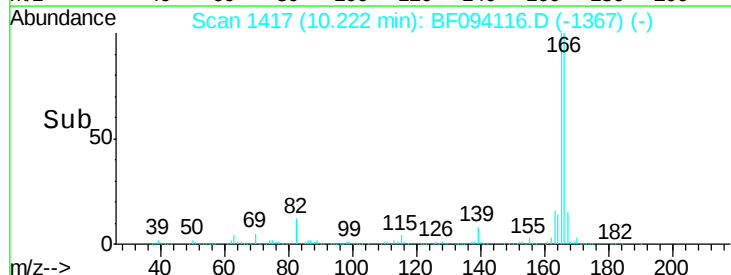
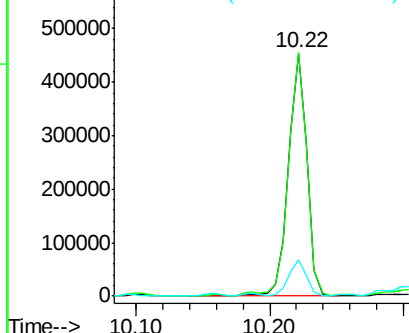


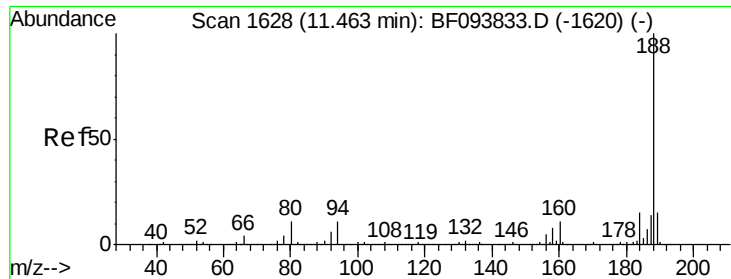
#57
Fluorene
Concen: 24.12 ng
RT: 10.22 min Scan# 1417
Delta R.T. -0.01 min
Lab File: BF094116.D
Acq: 1 Apr 2017 2:45

Tgt Ion	Ratio	Resp Lower	Upper
166	100		
165	100.3	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





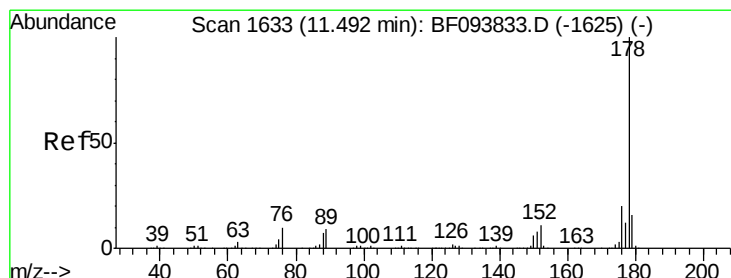
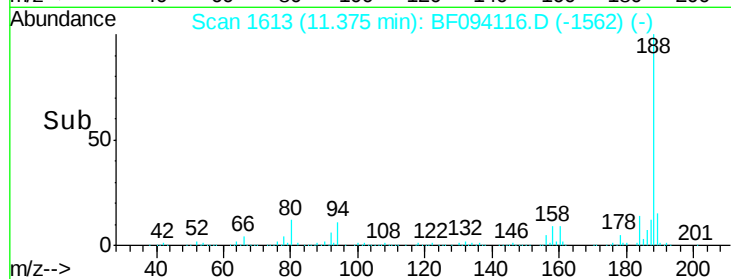
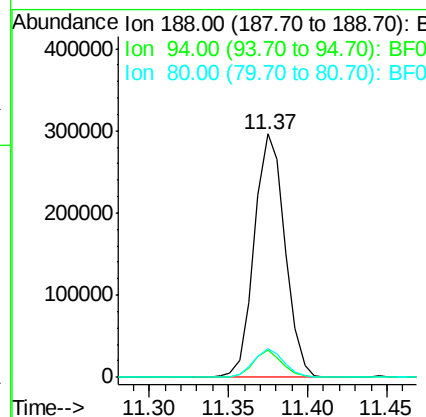
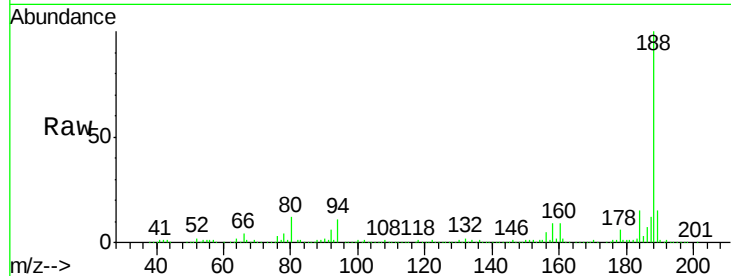
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.37 min Scan# 1613
Delta R.T. -0.00 min
Lab File: BF094116.D
Acq: 1 Apr 2017 2:45

Instrument :
BNA_F
ClientSampleId :
B-42-S1(1.0-1.5)

Tot Ion	Ratio	Resp	Lower	Upper
188	100	399420		
94	11.1		9.4	14.2
80	11.6		10.2	15.2

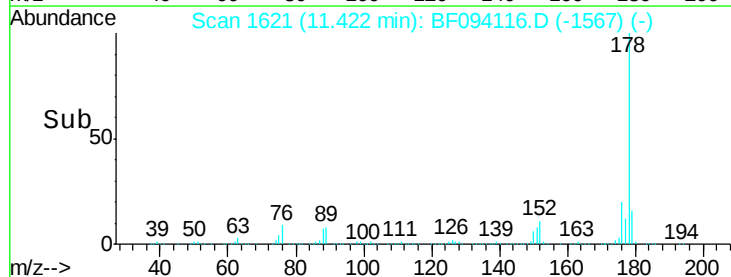
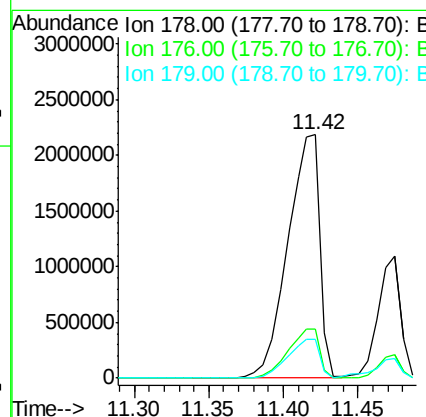
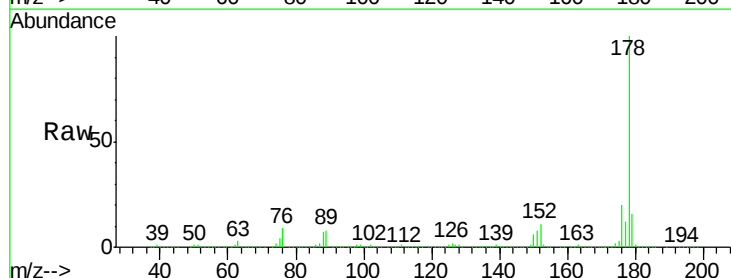
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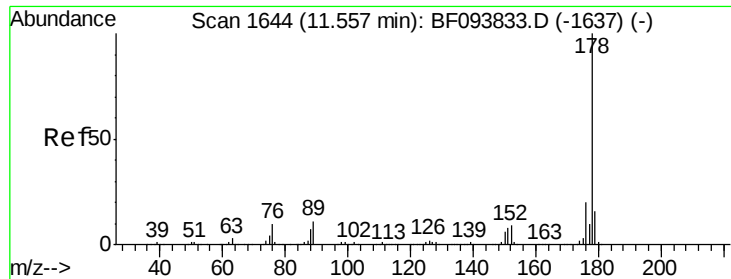
mohammad
4/3/2017 4:00:28 PM



#70
Phenanthrene
Concen: 147.37 ng
RT: 11.42 min Scan# 1621
Delta R.T. 0.02 min
Lab File: BF094116.D
Acq: 1 Apr 2017 2:45

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	3274443		
176	20.4		16.2	24.4
179	15.7		12.6	19.0





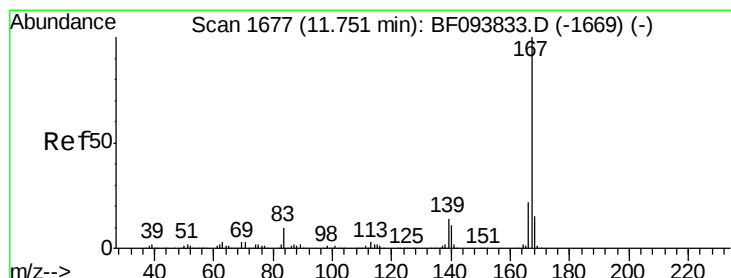
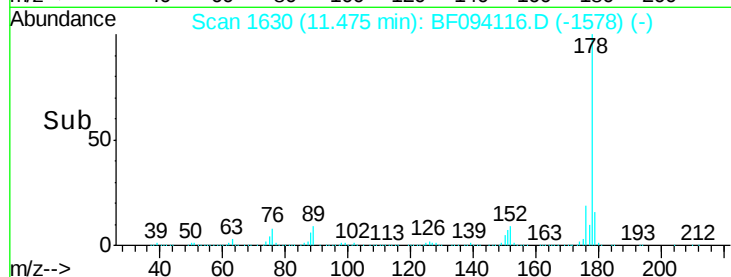
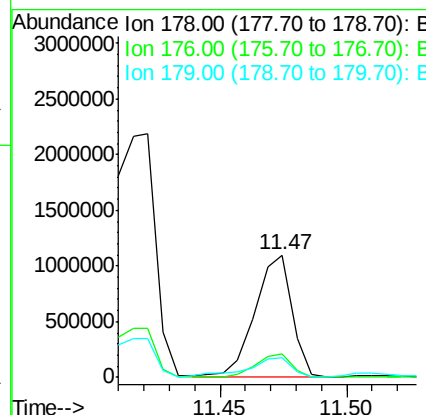
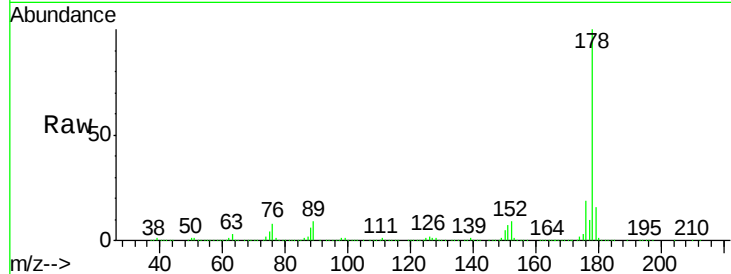
#71
 Anthracene
 Concen: 48.76 ng
 RT: 11.47 min Scan# 1630
 Delta R.T. 0.01 min
 Lab File: BF094116.D
 Acq: 1 Apr 2017 2:45

Instrument :
 BNA_F
 ClientSampleId :
 B-42-S1(1.0-1.5)

Tot Ion:178 Resp: 1115488
 Ion Ratio Lower Upper
 178 100
 176 19.0 15.8 23.8
 179 15.7 12.7 19.1

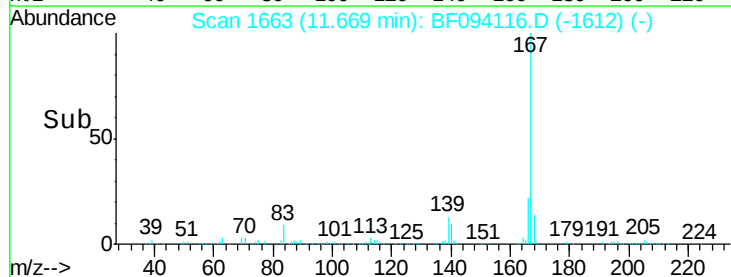
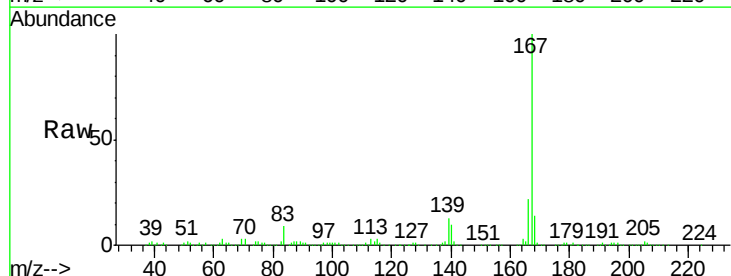
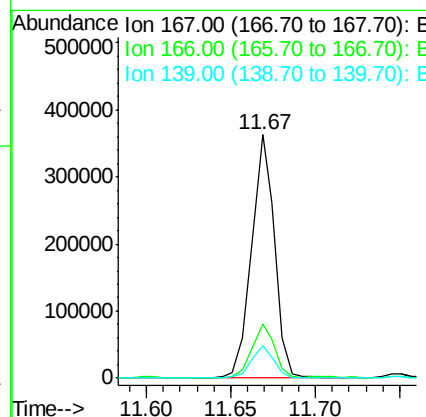
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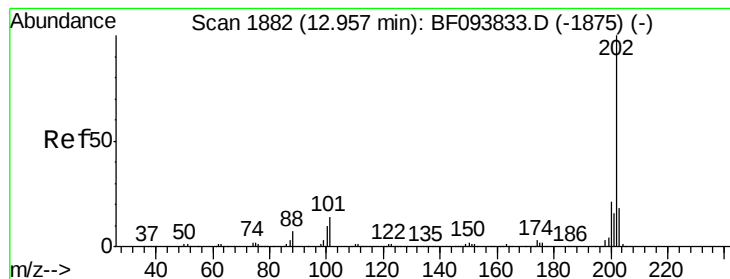
mohammad
 4/3/2017 4:00:28 PM



#72
 Carbazole
 Concen: 14.67 ng
 RT: 11.67 min Scan# 1663
 Delta R.T. -0.00 min
 Lab File: BF094116.D
 Acq: 1 Apr 2017 2:45

Tgt Ion:167 Resp: 344155
 Ion Ratio Lower Upper
 167 100
 166 22.4 18.1 27.1
 139 13.2 11.7 17.5





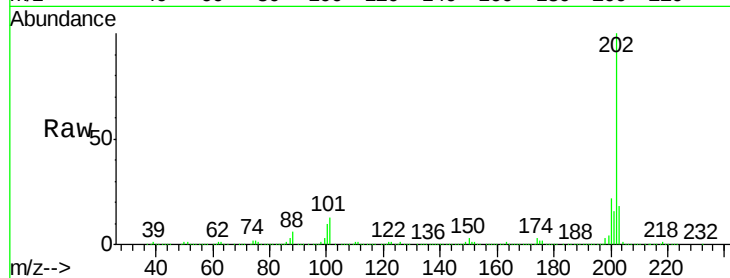
#74
 Fluoranthene
 Concen: 171.47 ng
 RT: 12.89 min Scan# 1871
 Delta R.T. 0.02 min
 Lab File: BF094116.D
 Acq: 1 Apr 2017 2:45

Instrument :
 BNA_F
 ClientSampleId :
 B-42-S1(1.0-1.5)

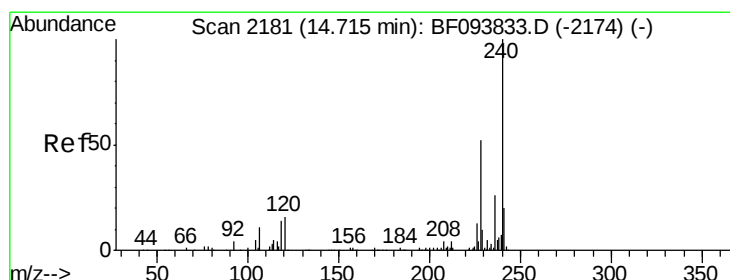
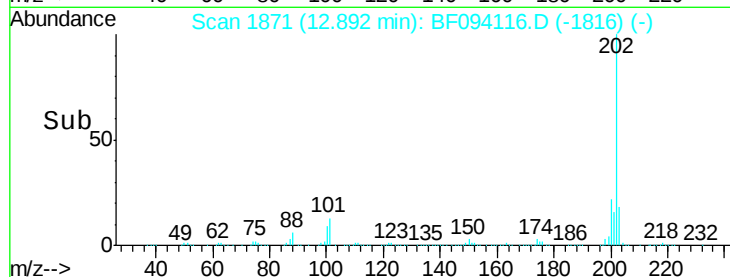
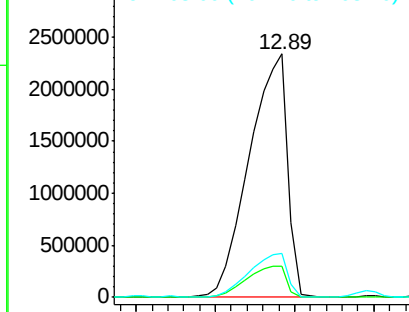
Tot Ion	Ratio	Lower	Upper
202	100		
101	12.9	0.0	33.2
203	18.2	0.0	38.1

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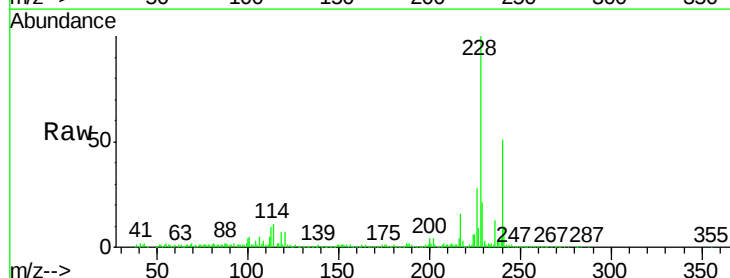


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E

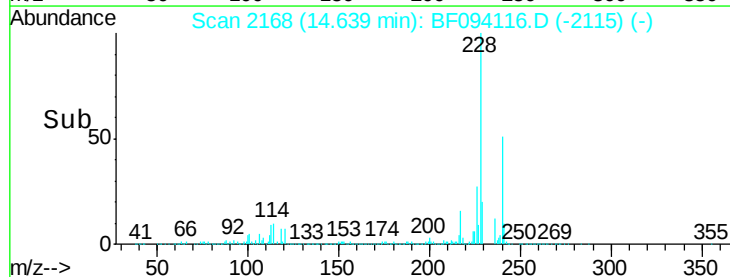
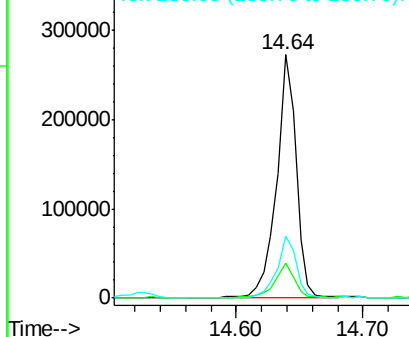


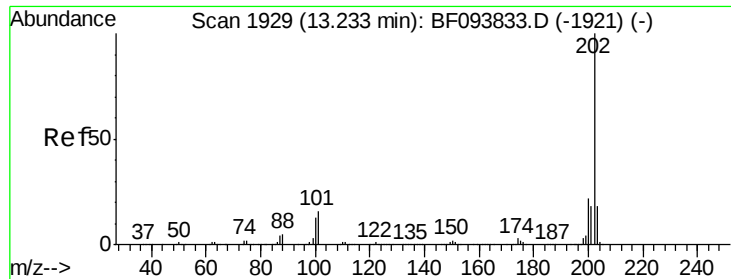
#75
 Chrysene-d12
 Concen: 20.00 ng
 RT: 14.64 min Scan# 2168
 Delta R.T. 0.01 min
 Lab File: BF094116.D
 Acq: 1 Apr 2017 2:45

Tgt Ion	Ratio	Lower	Upper
240	100		
120	14.1	5.8	8.8#
236	25.4	20.5	30.7



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





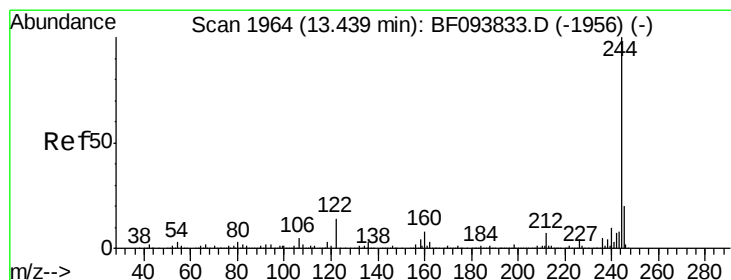
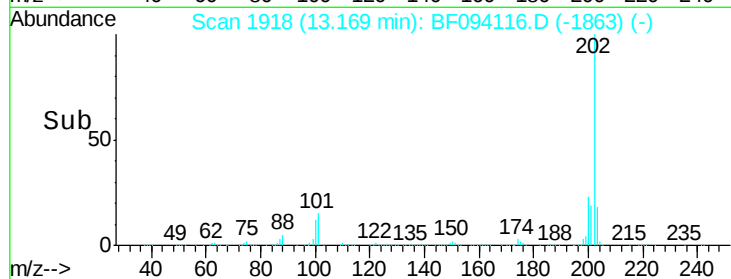
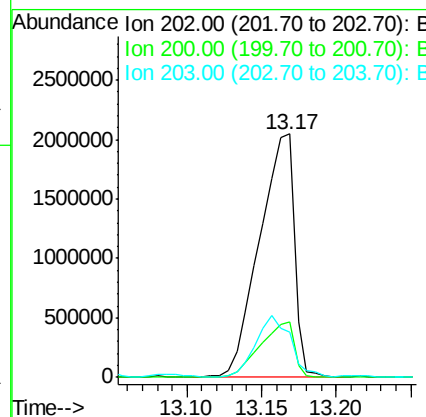
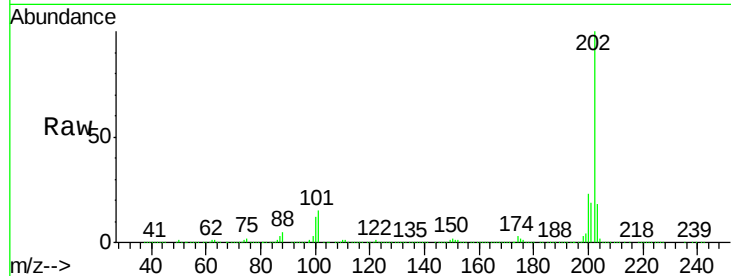
#77
Pvrene
Concen: 157.70 ng
RT: 13.17 min Scan# 1918
Delta R.T. 0.02 min
Lab File: BF094116.D
Acq: 1 Apr 2017 2:45

Instrument :
BNA_F
ClientSampleId :
B-42-S1(1.0-1.5)

Tot Ion:202 Resp: 3307316
Ion Ratio Lower Upper
202 100
200 22.6 17.6 26.4
203 18.4 14.4 21.6

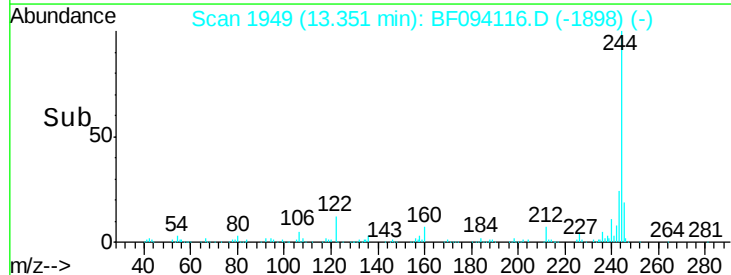
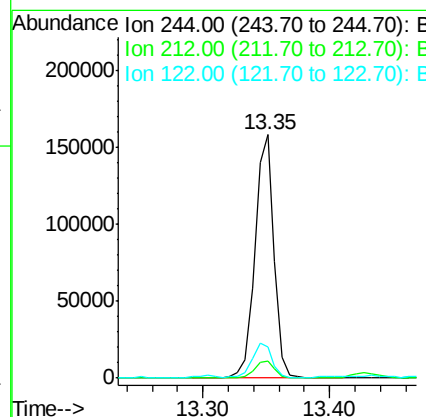
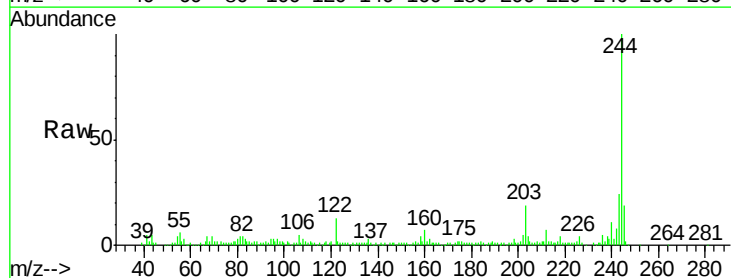
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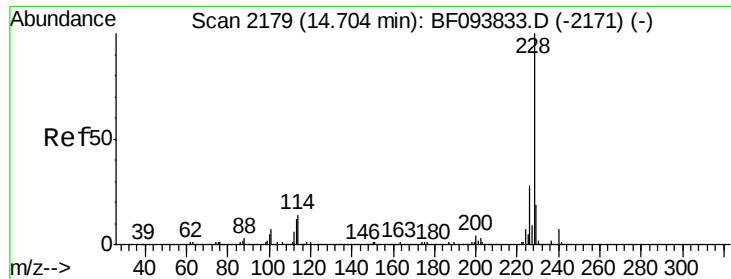
mohammad
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#78
Terphenyl-d14
Concen: 12.81 ng
RT: 13.35 min Scan# 1949
Delta R.T. -0.00 min
Lab File: BF094116.D
Acq: 1 Apr 2017 2:45

Tgt Ion:244 Resp: 165122
Ion Ratio Lower Upper
244 100
212 7.2 6.0 9.0
122 12.7 10.3 15.5





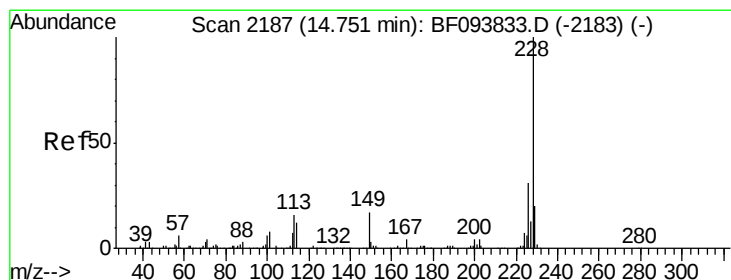
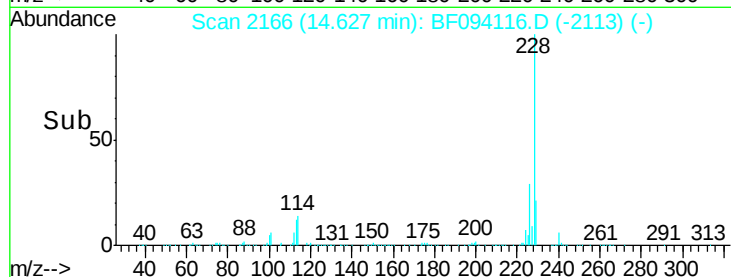
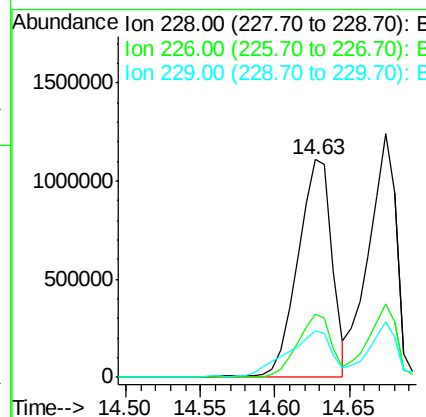
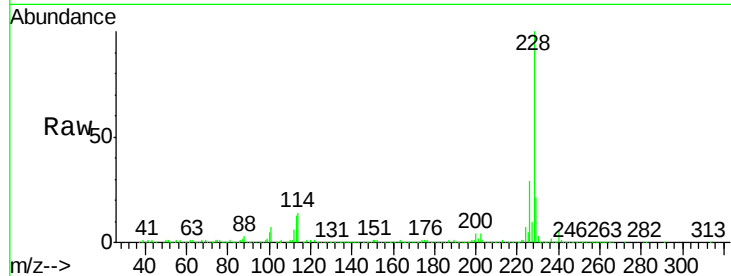
#80
Benzo(a)anthracene
Concen: 104.38 ng
RT: 14.63 min Scan# 2166
Delta R.T. 0.01 min
Lab File: BF094116.D
Acq: 1 Apr 2017 2:45

Instrument :
BNA_F
ClientSampleId :
B-42-S1(1.0-1.5)

Tot Ion:228 Resp: 1758865
Ion Ratio Lower Upper
228 100
226 29.1 22.6 33.8
229 21.2 16.3 24.5

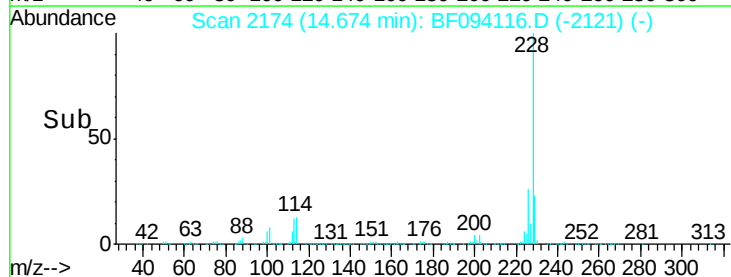
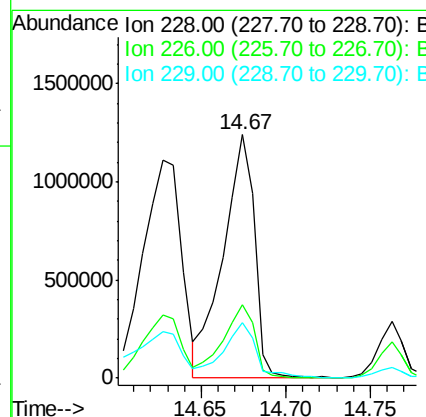
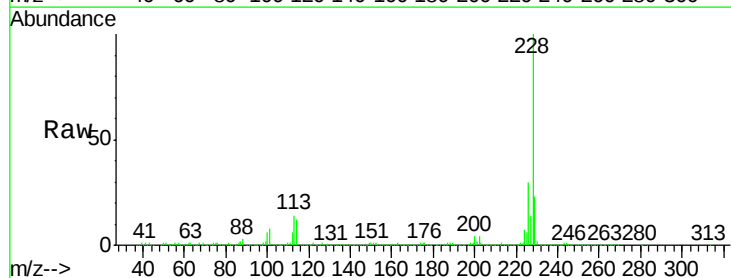
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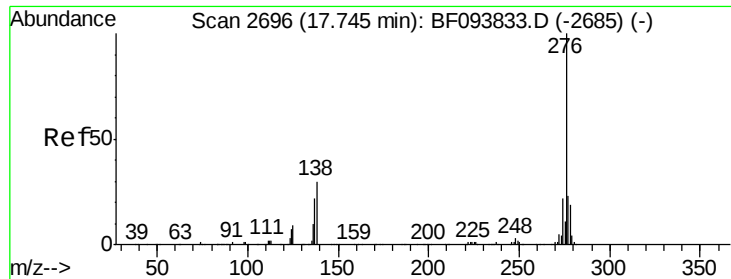
mohammad
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#82
Chrysene
Concen: 101.74 ng
RT: 14.67 min Scan# 2174
Delta R.T. 0.01 min
Lab File: BF094116.D
Acq: 1 Apr 2017 2:45

Tgt Ion:228 Resp: 1590927
Ion Ratio Lower Upper
228 100
226 30.4 24.9 37.3
229 22.6 15.8 23.6





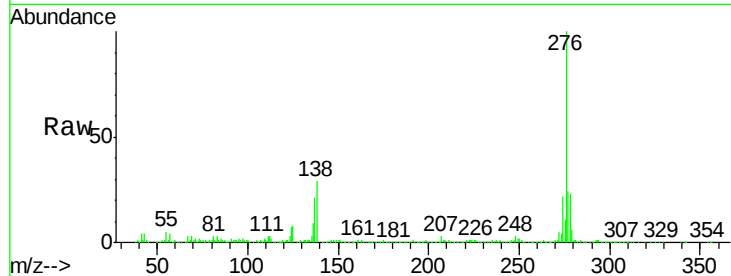
#85
Indeno(1,2,3-cd)pyrene
Concen: 51.14 ng
RT: 17.63 min Scan# 2676
Delta R.T. 0.02 min
Lab File: BF094116.D
Acq: 1 Apr 2017 2:45

Instrument :
BNA_F
ClientSampleId :
B-42-S1(1.0-1.5)

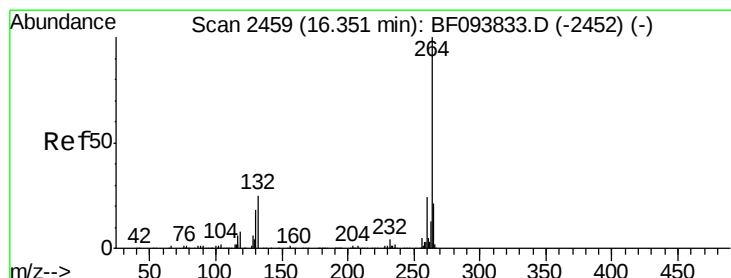
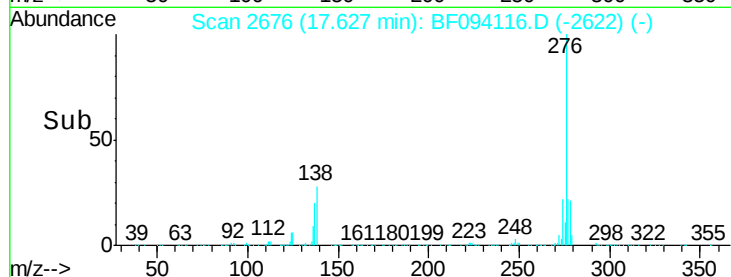
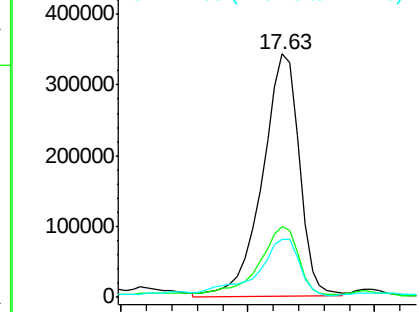
Tot Ion	Ratio	Lower	Upper
276	100		
138	29.2	27.8	41.6
277	27.7	20.2	30.4

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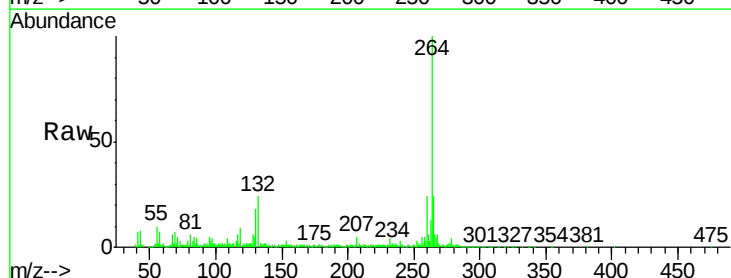


Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E

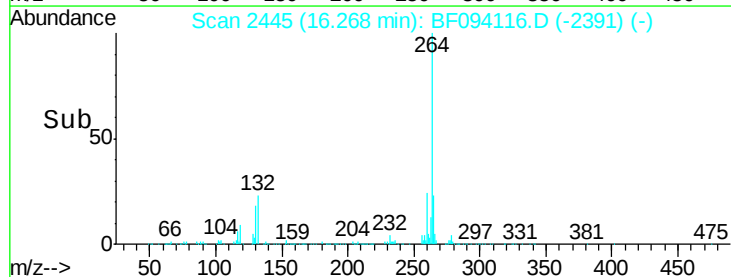
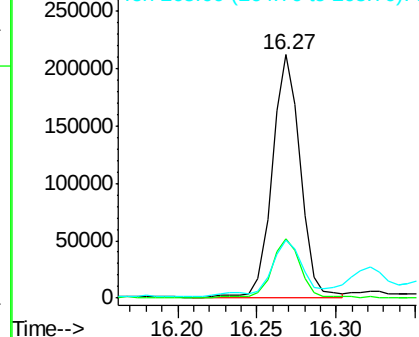


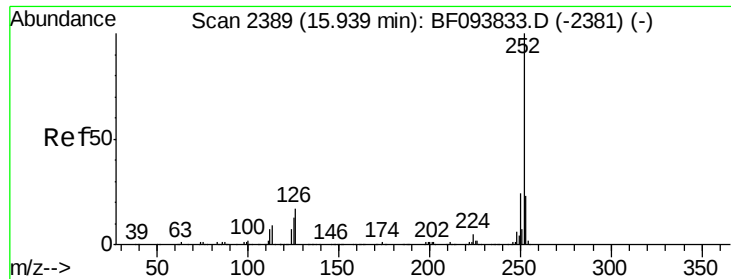
#86
Perylene-d12
Concen: 20.00 ng
RT: 16.27 min Scan# 2445
Delta R.T. 0.02 min
Lab File: BF094116.D
Acq: 1 Apr 2017 2:45

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.2	19.5	29.3
265	23.8	17.2	25.8



Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 113.53 ng m

RT: 15.87 min Scan# 2378

Delta R.T. 0.02 min

Lab File: BF094116.D

Acq: 1 Apr 2017 2:45

Instrument :

BNA_F

ClientSampleId :

B-42-S1(1.0-1.5)

Tot Ion:252 Resp: 1804498

Ion Ratio Lower Upper

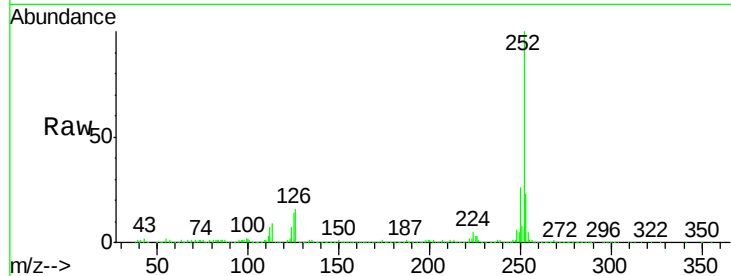
252 100

253 22.8 18.1 27.1

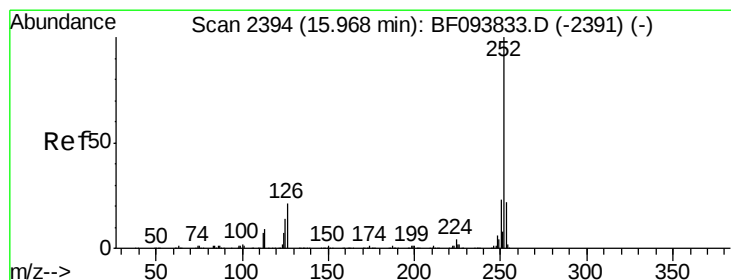
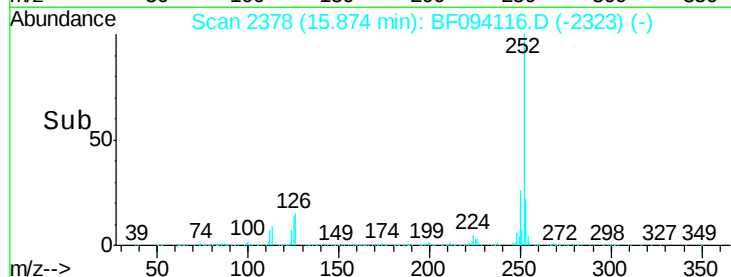
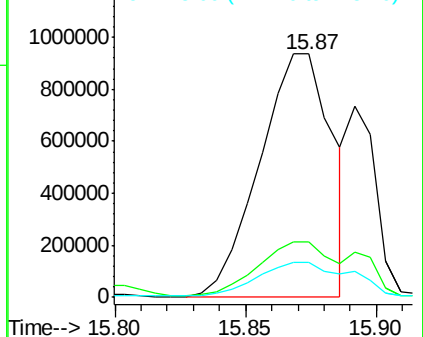
125 14.4 9.8 14.8

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



#88

Benzo(k)fluoranthene

Concen: 35.41 ng m

RT: 15.89 min Scan# 2381

Delta R.T. 0.01 min

Lab File: BF094116.D

Acq: 1 Apr 2017 2:45

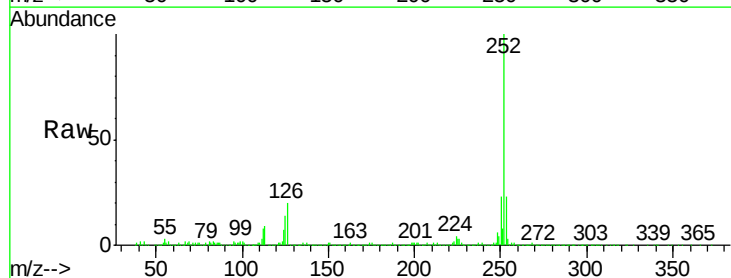
Tgt Ion:252 Resp: 550632

Ion Ratio Lower Upper

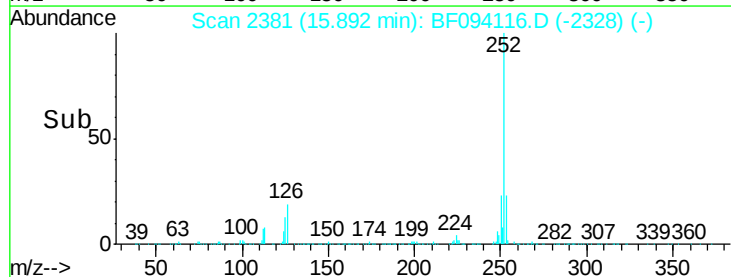
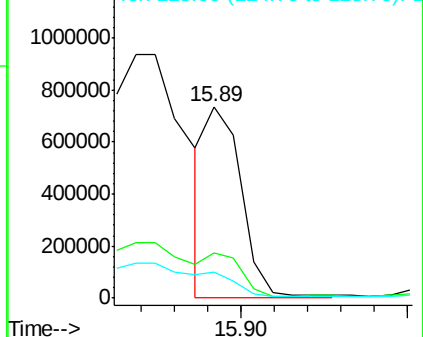
252 100

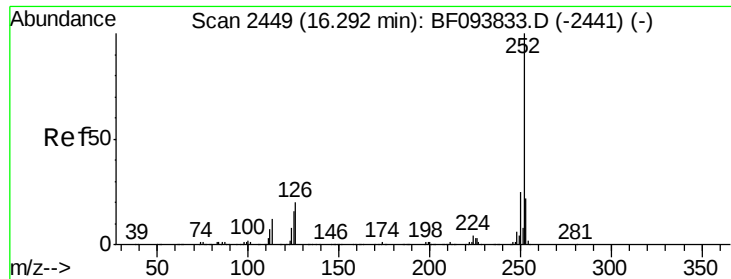
253 23.5 18.4 27.6

125 13.6 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: 82.23 ng

RT: 16.22 min Scan# 2437

Delta R.T. 0.02 min

Lab File: BF094116.D

Acq: 1 Apr 2017 2:45

Instrument :

BNA_F

ClientSampleId :

B-42-S1(1.0-1.5)

Tot Ion:252 Resp: 1203592

Ion Ratio Lower Upper

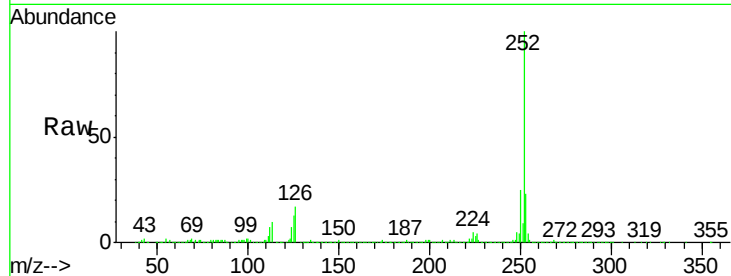
252 100

253 22.7 17.5 26.3

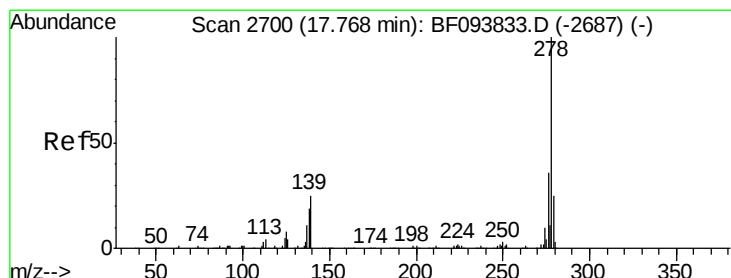
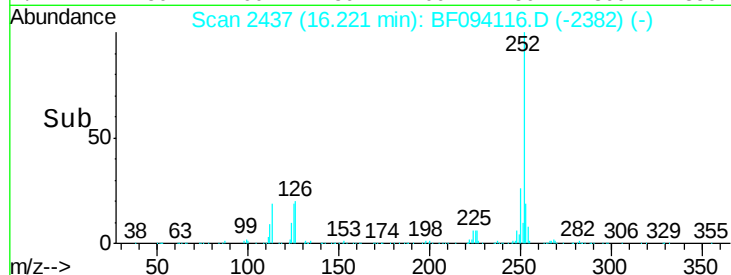
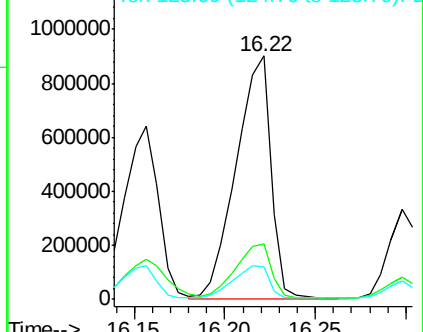
125 13.4 11.0 16.4

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mohammad
4/3/2017 4:00:28 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



#90

Dibenzo(a,h)anthracene

Concen: 13.71 ng m

RT: 17.63 min Scan# 2677

Delta R.T. -0.00 min

Lab File: BF094116.D

Acq: 1 Apr 2017 2:45

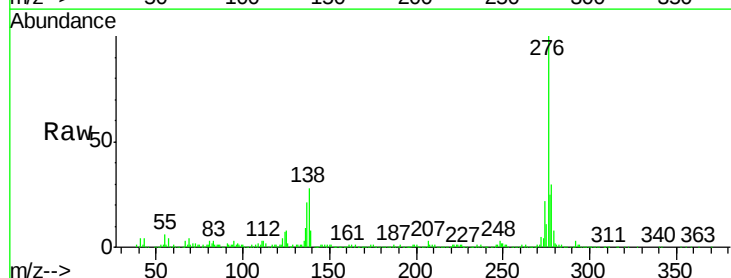
Tgt Ion:278 Resp: 169905

Ion Ratio Lower Upper

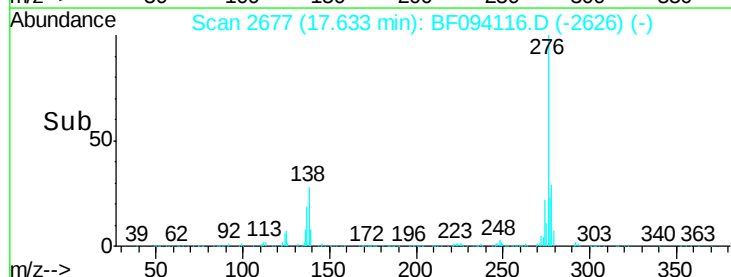
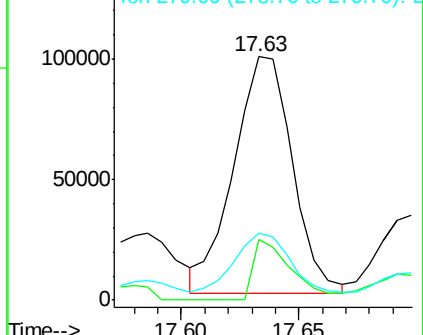
278 100

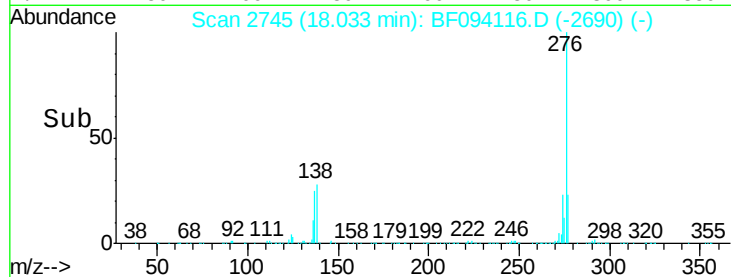
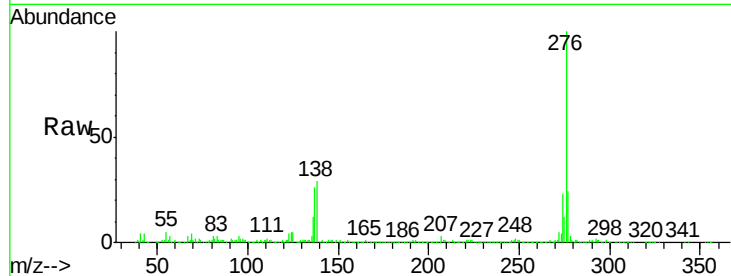
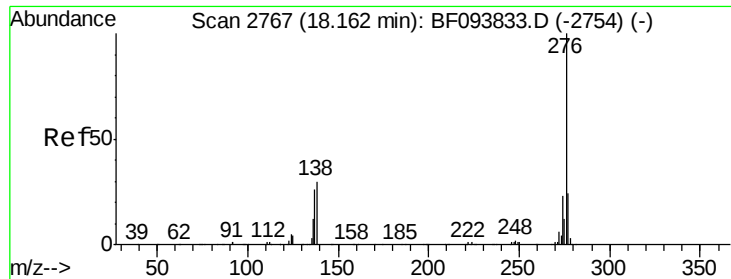
139 25.1 16.6 24.8#

279 27.5 19.3 28.9



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





#91

Benzo(a,h,i)perylene

Concen: 50.97 ng

RT: 18.03 min Scan# 2745

Delta R.T. 0.02 min

Lab File: BF094116.D

Acq: 1 Apr 2017 2:45

Tot Ion:	276	Resp:	636691
Ion Ratio	Lower	Upper	
276	100		
277	24.2	18.6	28.0
138	29.2	25.4	38.0

Instrument :

BNA_F

ClientSampleId :

B-42-S1(1.0-1.5)

Manual Integrations
APPROVED

mohammad
4/3/2017 4:00:28 PM

