

Data Path : Z:\HPCHEM1\BNA F\DATA\BF040317\
 Data File : BF094164.D
 Acq On : 4 Apr 2017 12:44
 Operator : SJ/MA
 Sample : I2501-04DL 10X
 Misc :
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-4DL

Manual Integrations
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 4/4/2017 5:35:43 PM

Quant Time: Apr 04 13:15:06 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	5.89	152	159995	20.00	ng	-0.02
21) Naphthalene-d8	7.39	136	604699	20.00	ng	-0.02
38) Acenaphthene-d10	9.53	164	239831	20.00	ng	-0.02
63) Phenanthrene-d10	11.36	188	381013	20.00	ng	-0.01
75) Chrysene-d12	14.62	240	308472	20.00	ng	0.00
86) Perylene-d12	16.25	264	218974	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	4.42	112	104040	10.98	ng	-0.02
7) Phenol-d6	5.49	99	127746	10.90	ng	-0.02
23) Nitrobenzene-d5	6.53	82	53926	5.09	ng	-0.03
41) 2,4,6-Tribromophenol	10.50	330	15610	8.24	ng	-0.02
44) 2-Fluorobiphenyl	8.71	172	117913	7.50	ng	-0.02
78) Terphenyl-d14	13.33	244	70593	5.13	ng	-0.02
Target Compounds						
31) Naphthalene	7.42	128	271375	9.33	ng	Qvalue 100
37) 2-Methylnaphthalene	8.26	142	73609	3.80	ng	99
51) Acenaphthene	9.57	154	171791	11.70	ng	99
54) Dibenzofuran	9.79	168	149970	7.50	ng	96
57) Fluorene	10.21	166	164351	9.91	ng	98
70) Phenanthrene	11.40	178	1547110	72.99	ng	99
71) Anthracene	11.45	178	451710	20.70	ng	98
72) Carbazole	11.66	167	140903	6.30	ng	96
74) Fluoranthene	12.86	202	1852329	85.35	ng	98
77) Pyrene	13.14	202	1613512	72.07	ng	99
80) Benzo(a)anthracene	14.61	228	720876	40.08	ng	98
82) Chrysene	14.65	228	597684	35.81	ng	96
85) Indeno(1,2,3-cd)pyrene	17.60	276	189017	13.07	ng	96
87) Benzo(b)fluoranthene	15.84	252	587062m	43.74	ng	
88) Benzo(k)fluoranthene	15.87	252	168334m	12.82	ng	
89) Benzo(a)pyrene	16.19	252	378784	30.64	ng	99
90) Dibenzo(a,h)anthracene	17.60	278	52009	4.97	ng	# 90
91) Benzo(g,h,i)perylene	17.99	276	161248	15.29	ng	99

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

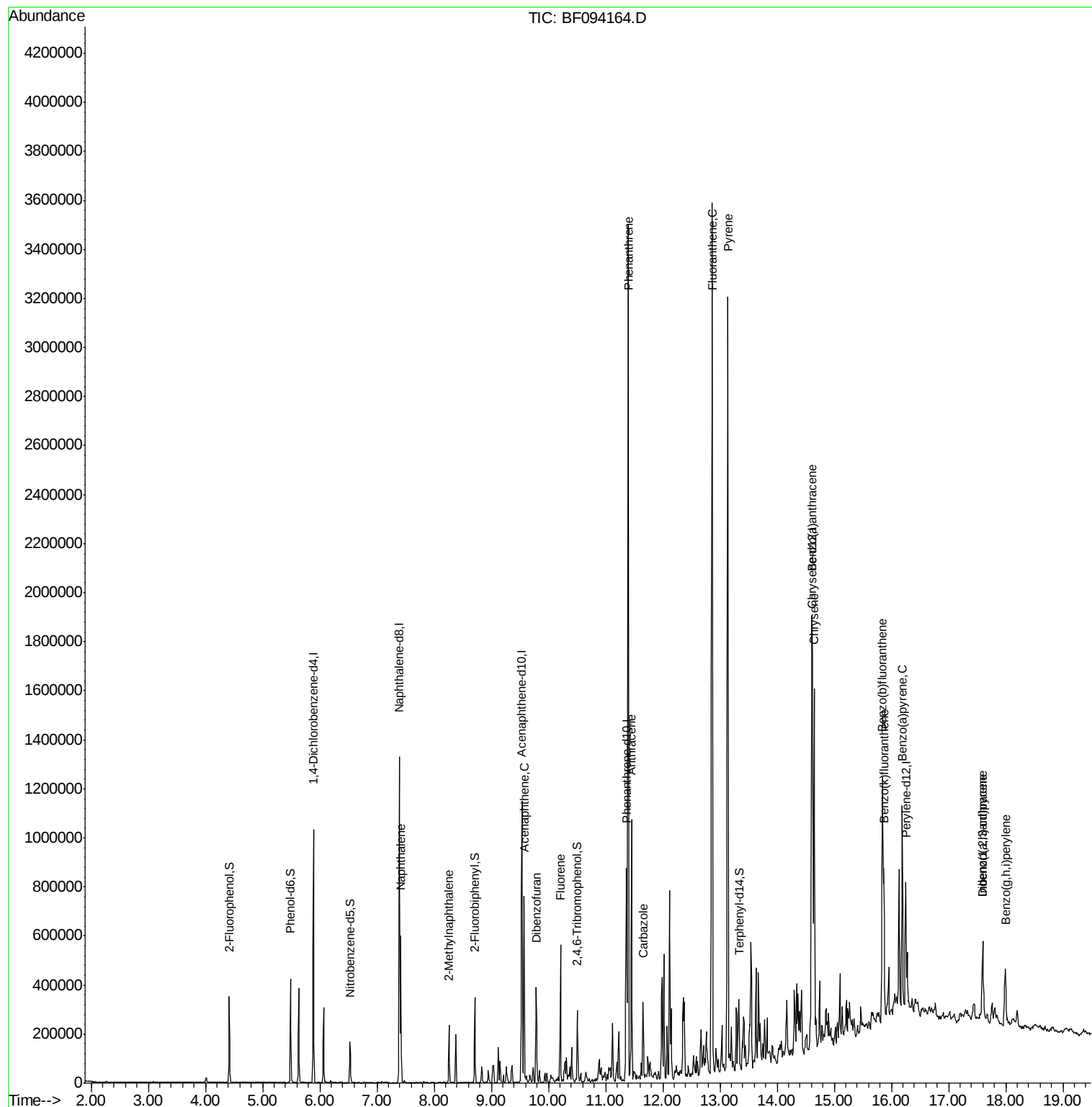
Data Path : Z:\HPCHEM1\BNA F\DATA\BF040317\
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#1

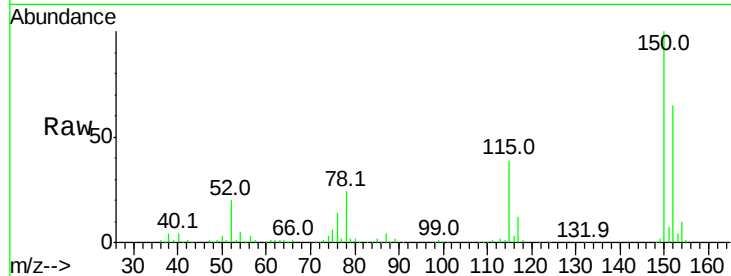
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 5.89 min Scan# 680
Delta R.T. -0.02 min
Lab File: BF094164.D
Acq: 4 Apr 2017 12:44

Instrument :
BNA_F
ClientSampleId :
TP-4DL

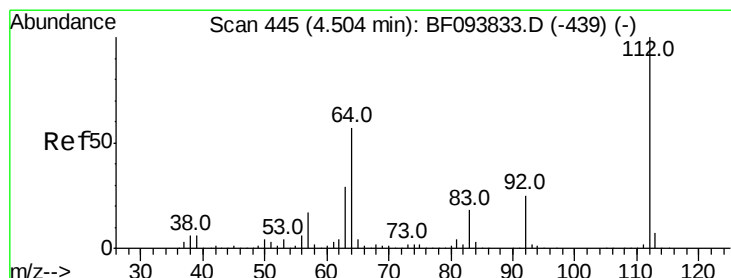
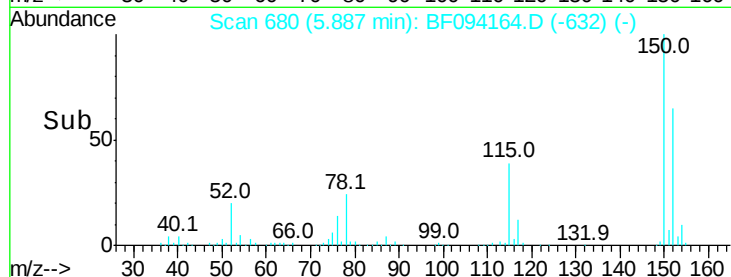
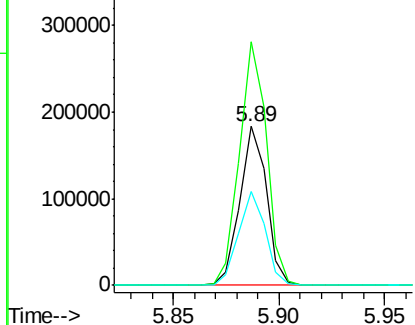
Tot Ion	Ratio	Lower	Upper
152	100		
150	153.5	126.2	189.2
115	59.5	52.2	78.2

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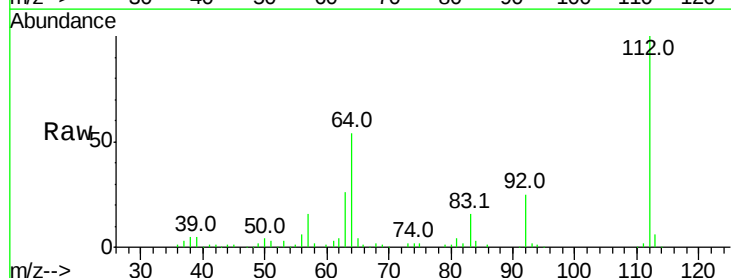
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



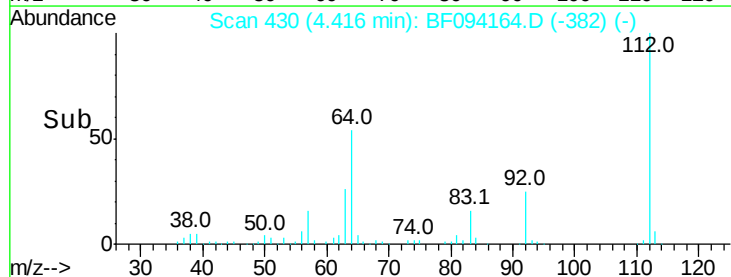
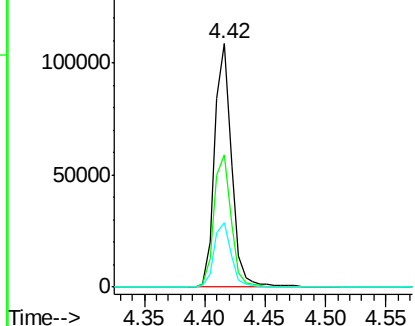
#5

2-Fluorophenol
Concen: 10.98 ng
RT: 4.42 min Scan# 430
Delta R.T. -0.02 min
Lab File: BF094164.D
Acq: 4 Apr 2017 12:44

Tgt Ion	Ratio	Lower	Upper
112	100		
64	54.3	46.0	69.0
63	26.4	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: 10.90 ng

RT: 5.49 min Scan# 612

Delta R.T. -0.02 min

Lab File: BF094164.D

Acq: 4 Apr 2017 12:44

Instrument :

BNA_F

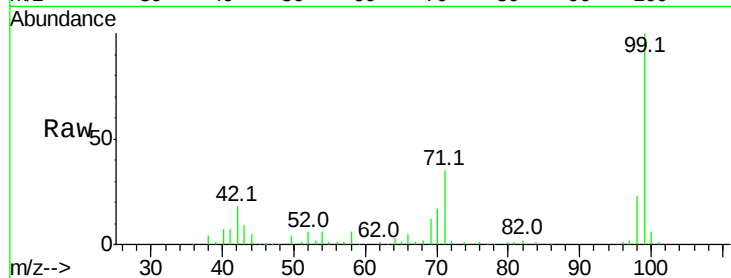
ClientSampled :

TP-4DL

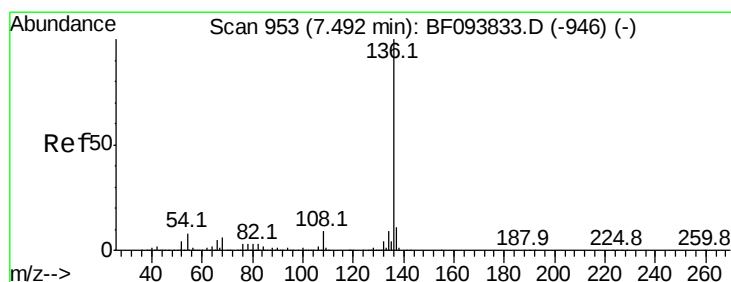
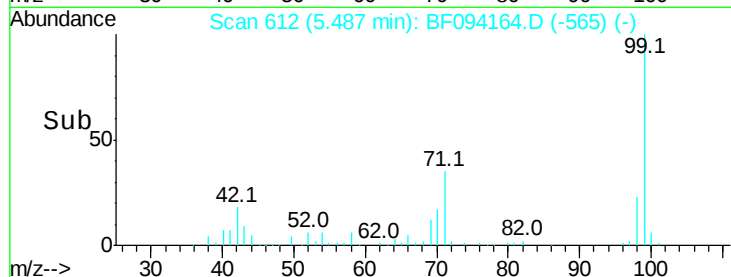
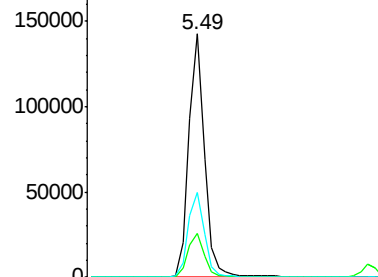
Tot Ion:	99	Resp:	127746
Ion Ratio	Lower	Upper	
99	100		
42	18.2	13.5	20.3
71	34.9	24.5	36.7

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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

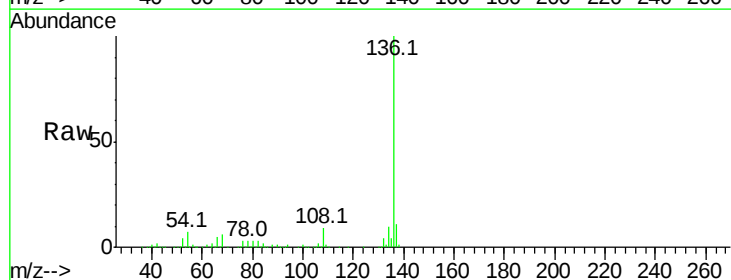
RT: 7.39 min Scan# 936

Delta R.T. -0.02 min

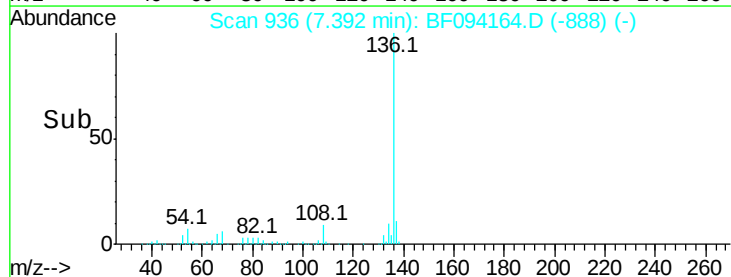
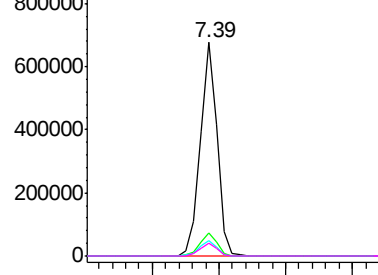
Lab File: BF094164.D

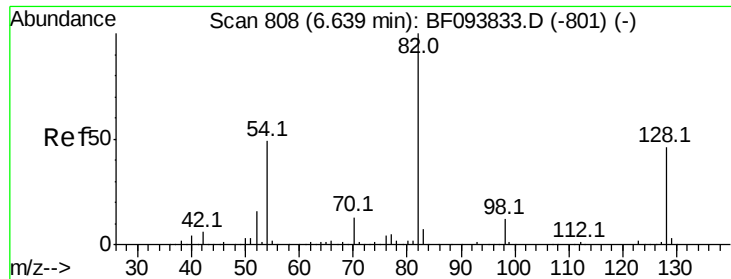
Acq: 4 Apr 2017 12:44

Tgt Ion:	136	Resp:	604699
Ion Ratio	Lower	Upper	
136	100		
137	11.0	8.5	12.7
54	7.4	4.9	7.3#
68	6.0	4.1	6.1



Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF0
Ion 68.00 (67.70 to 68.70): BF0





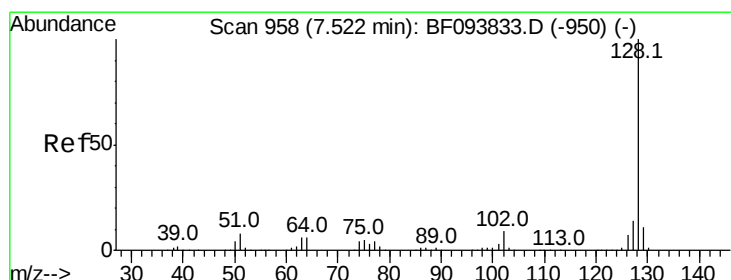
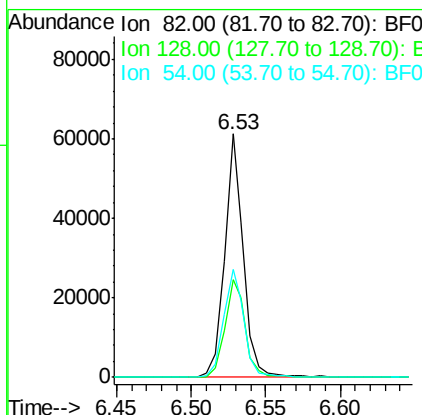
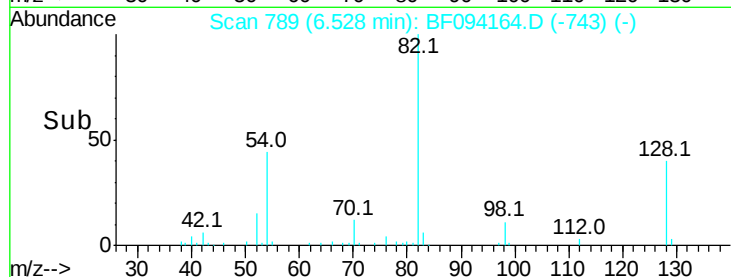
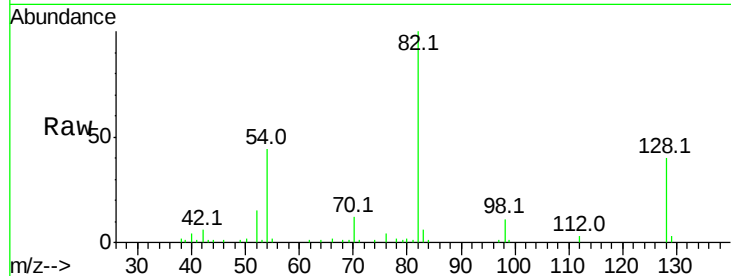
#23
Nitrobenzene-d5
Concen: 5.09 ng
RT: 6.53 min Scan# 789
Delta R.T. -0.03 min
Lab File: BF094164.D
Acq: 4 Apr 2017 12:44

Instrument :
BNA_F
ClientSampled :
TP-4DL

Tot Ion	Ratio	Lower	Upper
82	100		
128	40.0	34.0	51.0
54	44.5	42.2	63.2

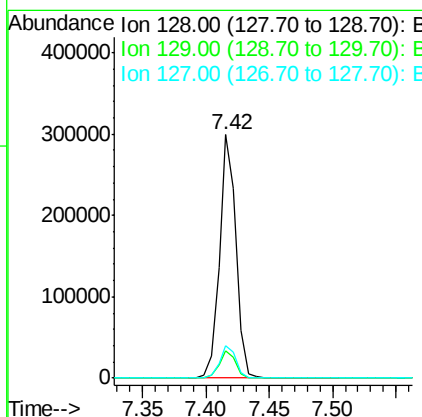
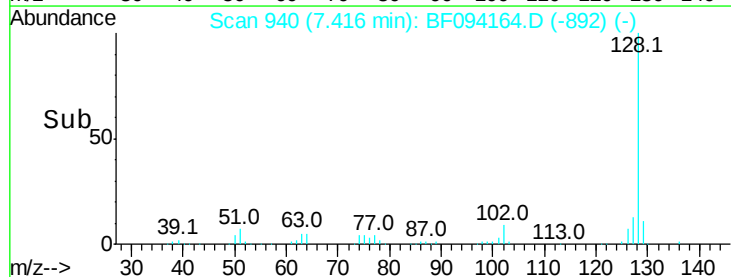
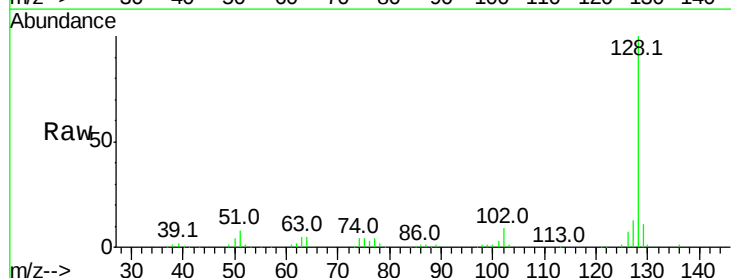
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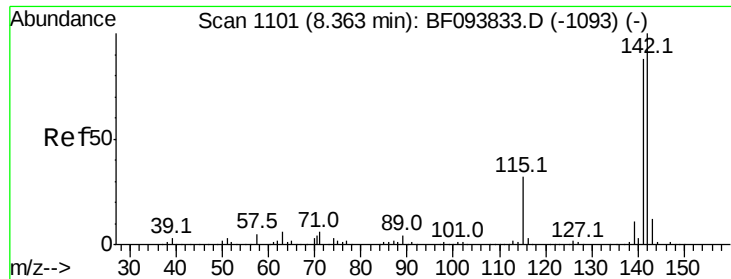
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#31
Naphthalene
Concen: 9.33 ng
RT: 7.42 min Scan# 940
Delta R.T. -0.02 min
Lab File: BF094164.D
Acq: 4 Apr 2017 12:44

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.3	9.0	13.6
127	13.3	10.8	16.2





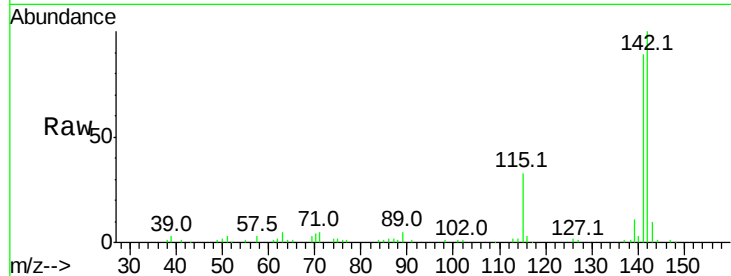
#37
2-Methylnaphthalene
Concen: 3.80 ng
RT: 8.26 min Scan# 1084
Delta R.T. -0.01 min
Lab File: BF094164.D
Acq: 4 Apr 2017 12:44

Instrument :
BNA_F
ClientSampleID :
TP-4DL

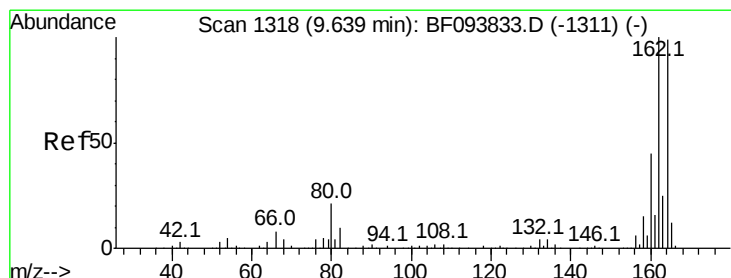
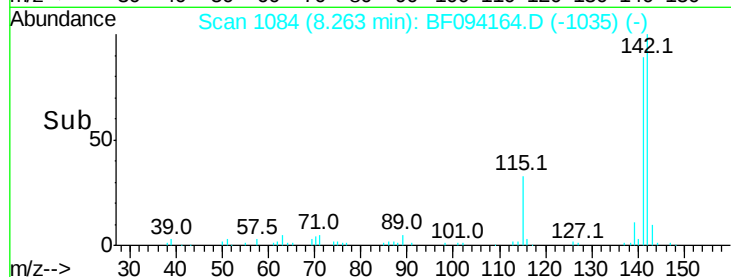
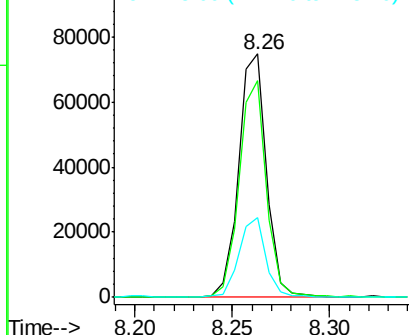
Tot Ion	Ratio	Lower	Upper
142	100		
141	89.0	71.3	106.9
115	32.6	27.1	40.7

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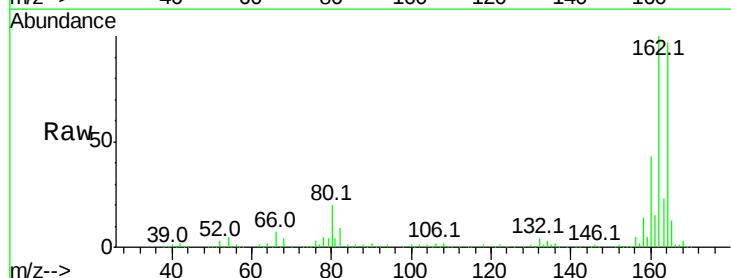


Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 115.00 (114.70 to 115.70): E

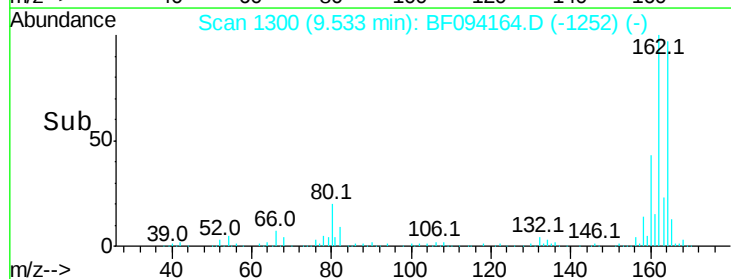
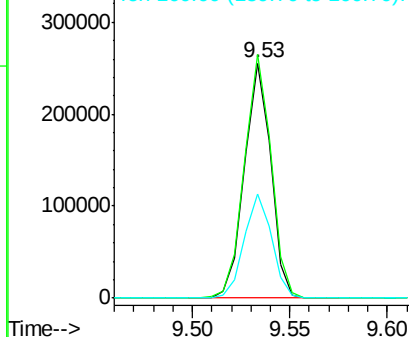


#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.53 min Scan# 1300
Delta R.T. -0.02 min
Lab File: BF094164.D
Acq: 4 Apr 2017 12:44

Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.6	82.6	123.8
160	44.4	36.2	54.2



Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E





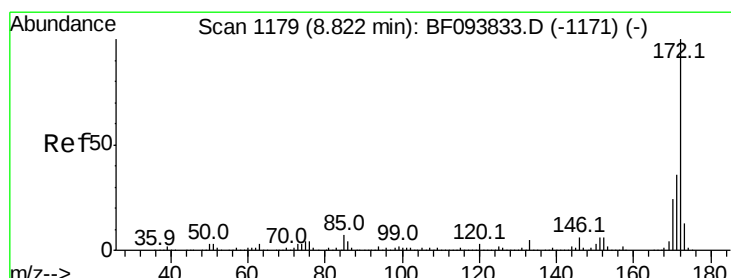
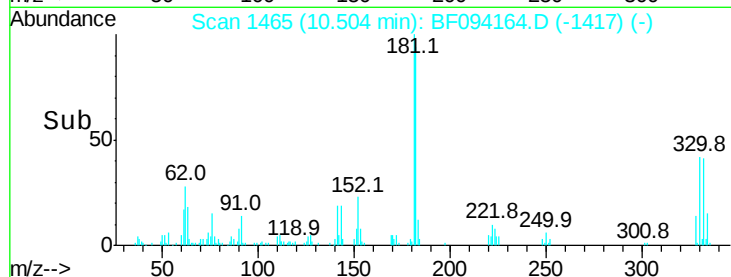
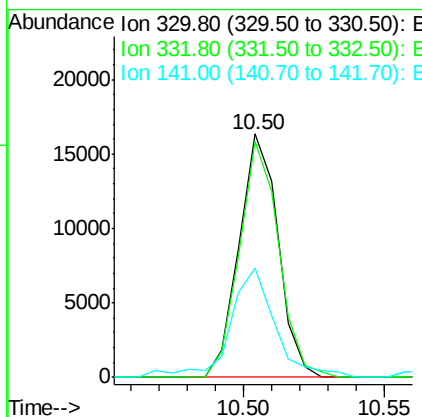
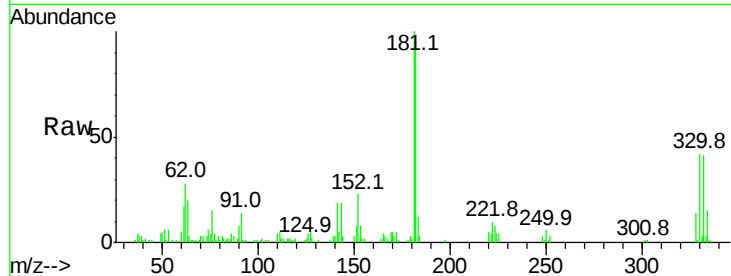
#41
 2,4,6-Tribromophenol
 Concen: 8.24 ng
 RT: 10.50 min Scan# 1465
 Delta R.T. -0.02 min
 Lab File: BF094164.D
 Acq: 4 Apr 2017 12:44

Instrument :
 BNA_F
 ClientSampled :
 TP-4DL

Tot Ion	Ratio	Resp	Lower	Upper
330	100			
332	98.2	76.6	115.0	
141	52.1	31.4	47.2#	

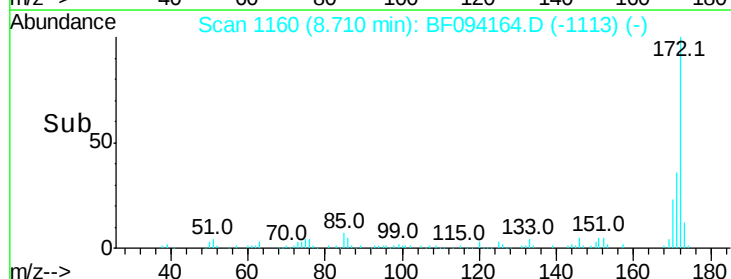
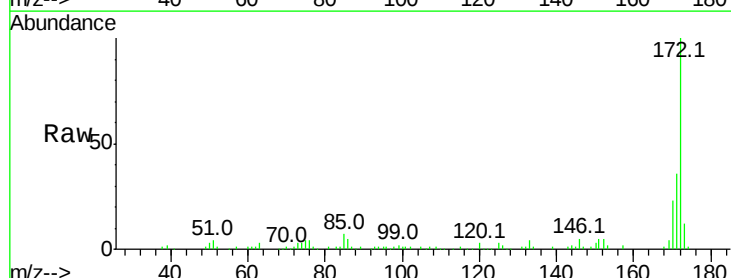
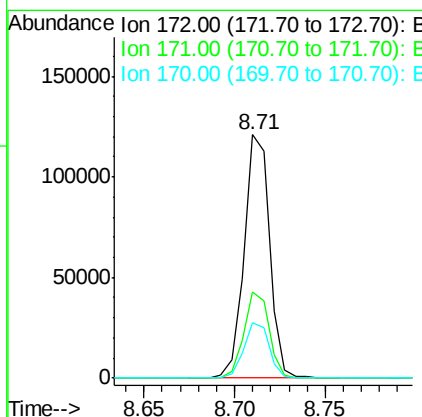
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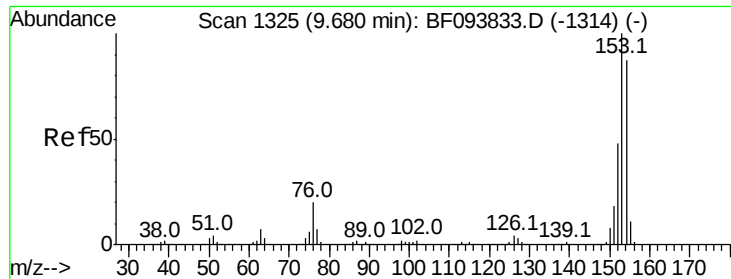
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#44
 2-Fluorobiphenyl
 Concen: 7.50 ng
 RT: 8.71 min Scan# 1160
 Delta R.T. -0.02 min
 Lab File: BF094164.D
 Acq: 4 Apr 2017 12:44

Tgt Ion	Ratio	Resp	Lower	Upper
172	100			
171	35.6	29.6	44.4	
170	22.7	19.8	29.8	





#51

Acenaphthene

Concen: 11.70 ng

RT: 9.57 min Scan# 1307

Delta R.T. -0.02 min

Lab File: BF094164.D

Acq: 4 Apr 2017 12:44

Instrument :

BNA_F

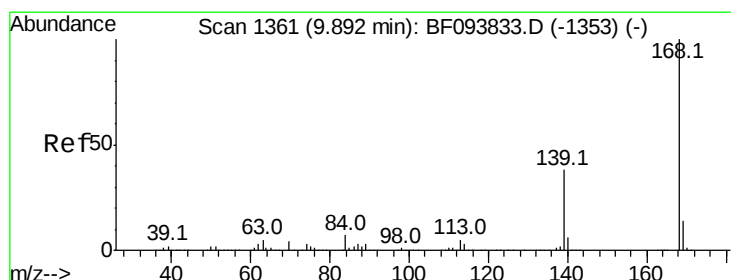
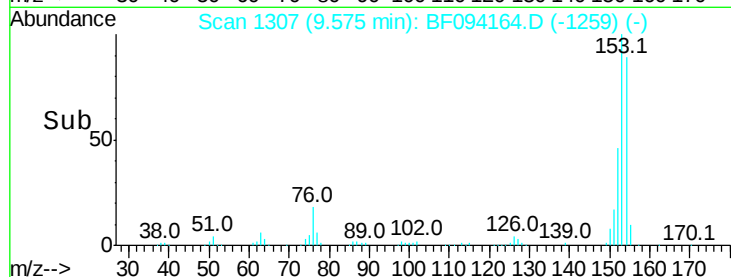
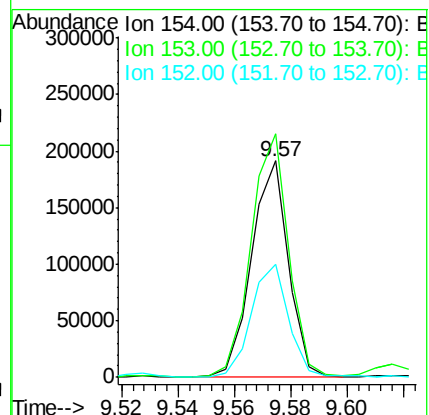
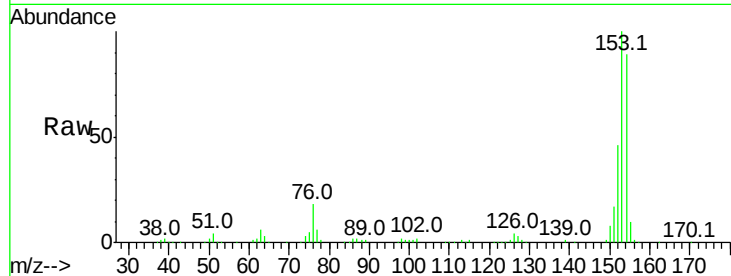
ClientSampleID :

TP-4DL

Tot Ion:	154	Resp:	171791
Ion Ratio	Lower	Upper	
154	100		
153	112.6	90.5	135.7
152	52.3	43.6	65.4

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#54

Dibenzofuran

Concen: 7.50 ng

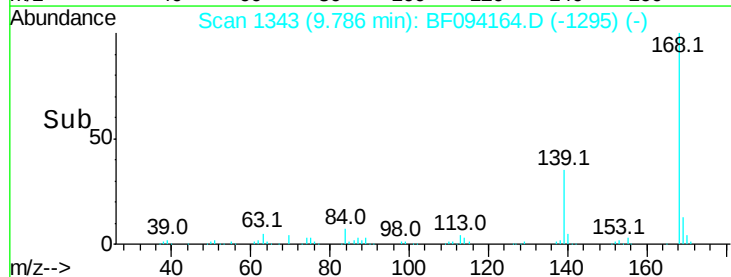
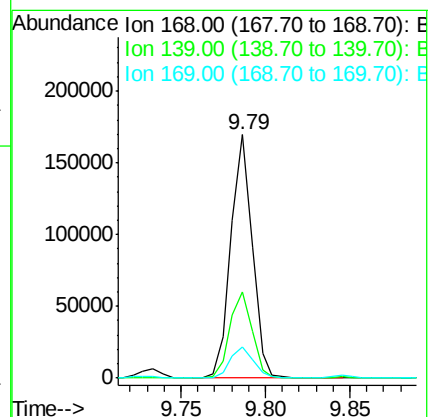
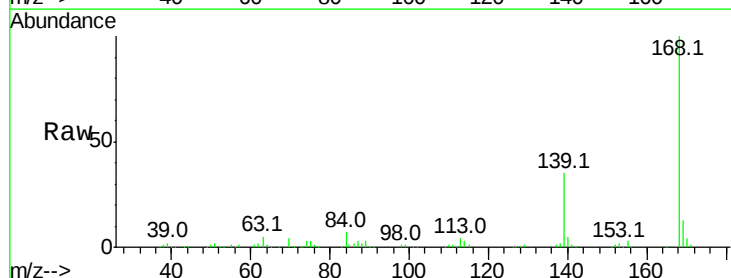
RT: 9.79 min Scan# 1343

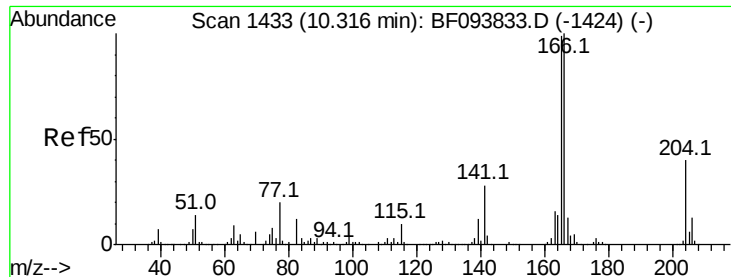
Delta R.T. -0.02 min

Lab File: BF094164.D

Acq: 4 Apr 2017 12:44

Tgt Ion:	168	Resp:	149970
Ion Ratio	Lower	Upper	
168	100		
139	35.4	30.6	45.8
169	12.8	10.8	16.2





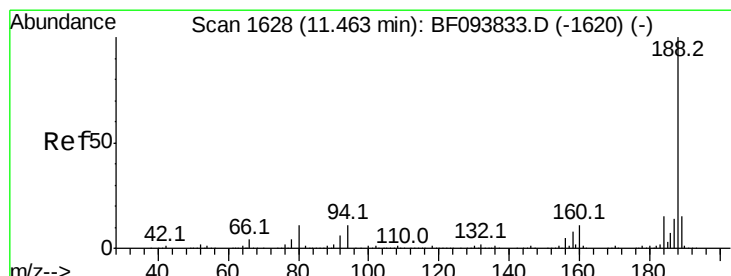
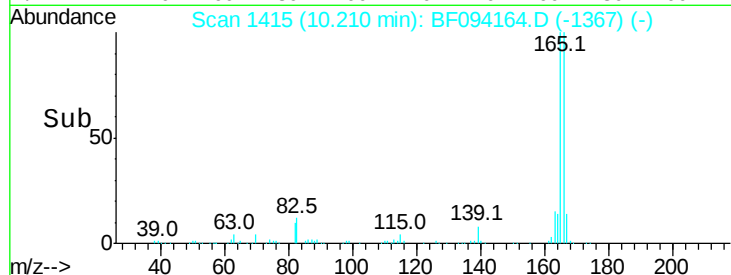
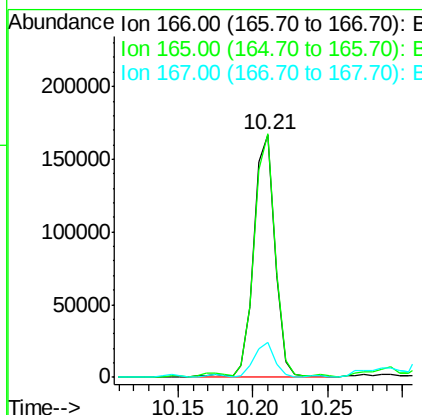
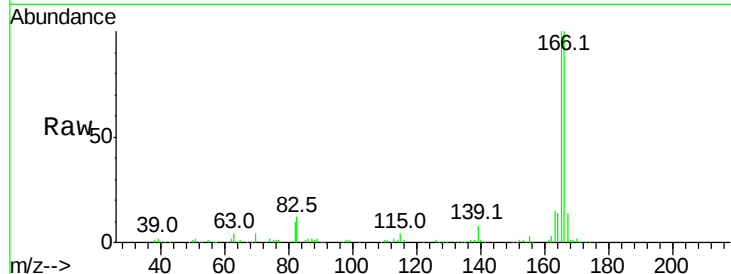
#57
Fluorene
 Concen: 9.91 ng
 RT: 10.21 min Scan# 1415
 Delta R.T. -0.02 min
 Lab File: BF094164.D
 Acq: 4 Apr 2017 12:44

Instrument :
 BNA_F
 ClientSampleID :
 TP-4DL

Tot Ion	Ratio	Resp	Lower	Upper
166	100	164351		
165	100.3	78.8	118.2	
167	14.3	10.6	16.0	

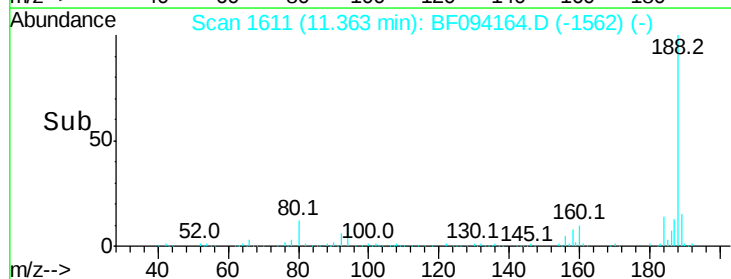
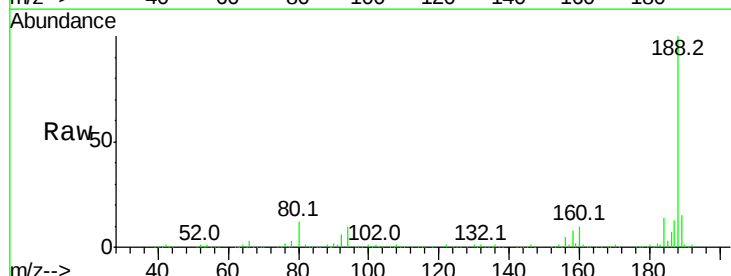
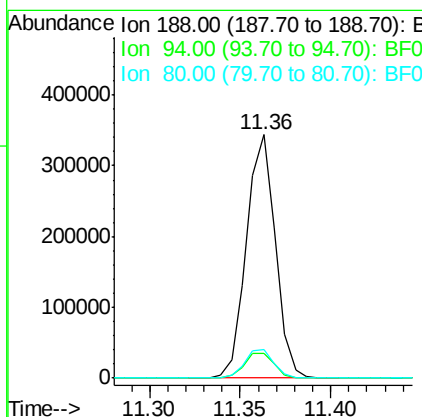
Manual Integrations
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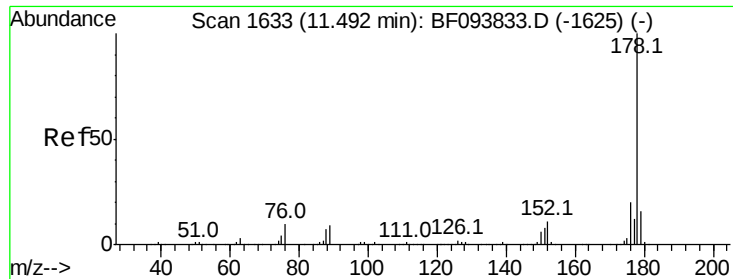
mohammad
 4/4/2017 5:35:43 PM



#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.36 min Scan# 1611
 Delta R.T. -0.01 min
 Lab File: BF094164.D
 Acq: 4 Apr 2017 12:44

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	381013		
94	10.2	9.4	14.2	
80	11.6	10.2	15.2	





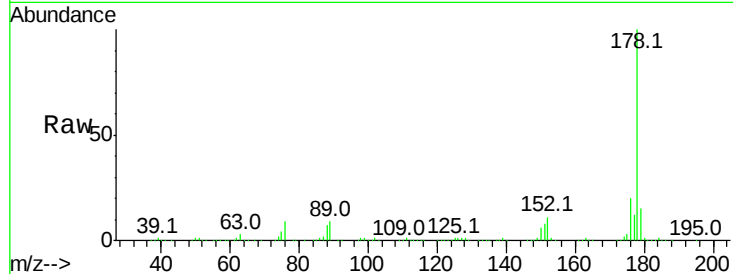
#70
Phenanthrene
Concen: 72.99 ng
RT: 11.40 min Scan# 1617
Delta R.T. -0.01 min
Lab File: BF094164.D
Acq: 4 Apr 2017 12:44

Instrument :
BNA_F
ClientSampled :
TP-4DL

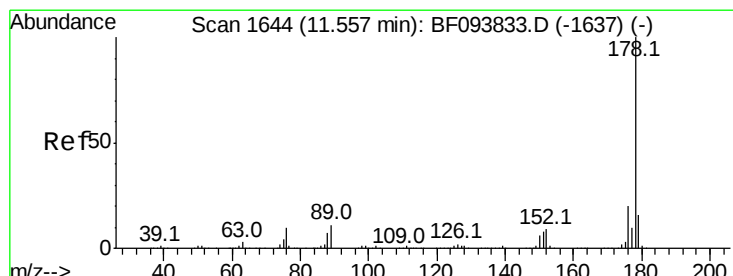
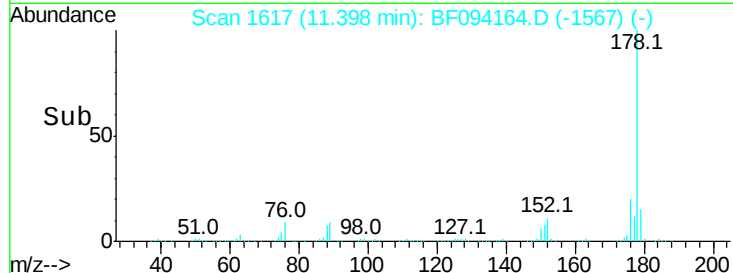
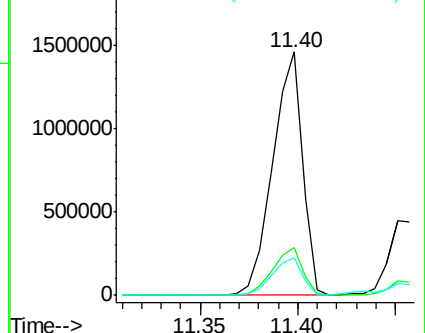
Tot Ion:178 Resp: 1547110
Ion Ratio Lower Upper
178 100
176 19.8 16.2 24.4
179 15.4 12.6 19.0

Manual Integrations
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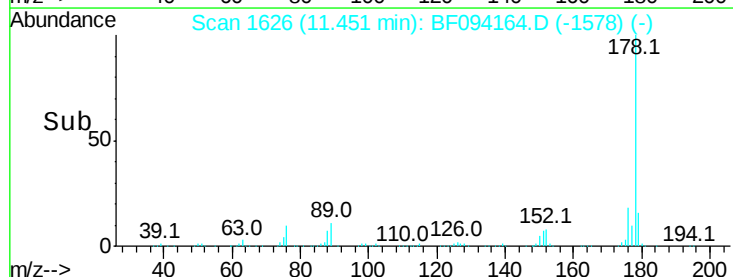
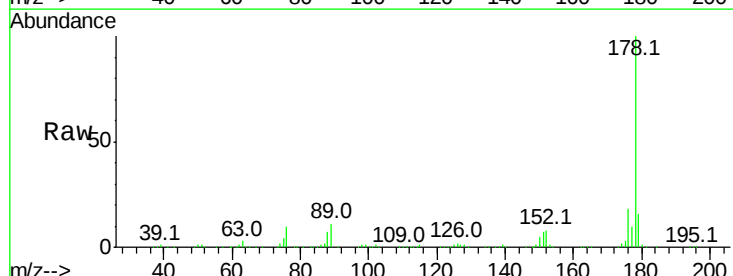
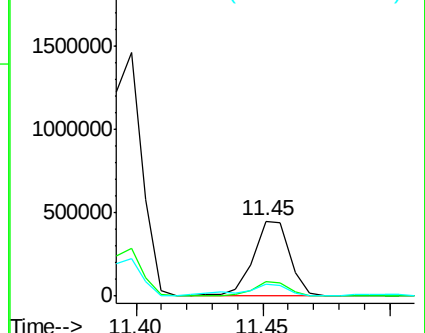
Abundance Ion 178.00 (177.70 to 178.70): E
2000000 Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

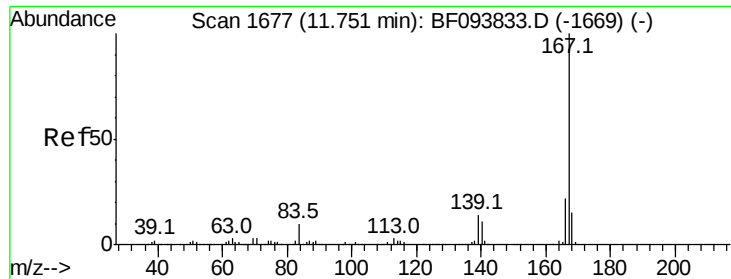


#71
Anthracene
Concen: 20.70 ng
RT: 11.45 min Scan# 1626
Delta R.T. -0.02 min
Lab File: BF094164.D
Acq: 4 Apr 2017 12:44

Tgt Ion:178 Resp: 451710
Ion Ratio Lower Upper
178 100
176 18.5 15.8 23.8
179 15.8 12.7 19.1

Abundance Ion 178.00 (177.70 to 178.70): E
2000000 Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E





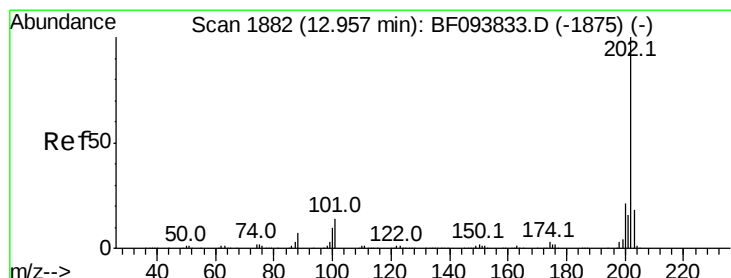
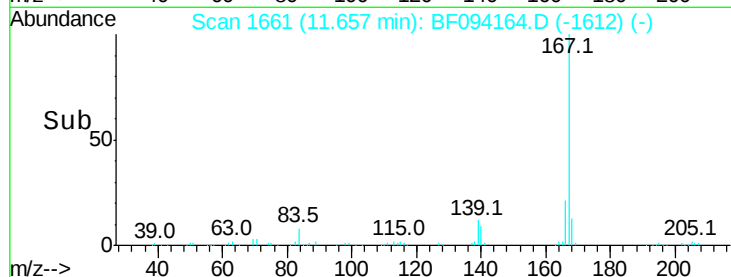
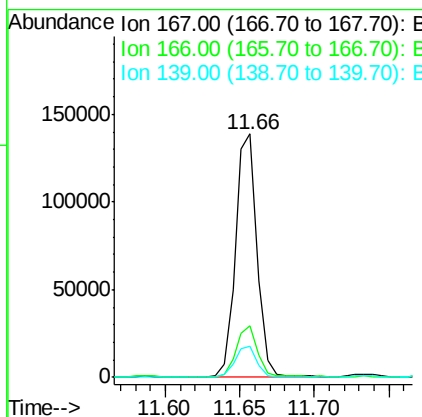
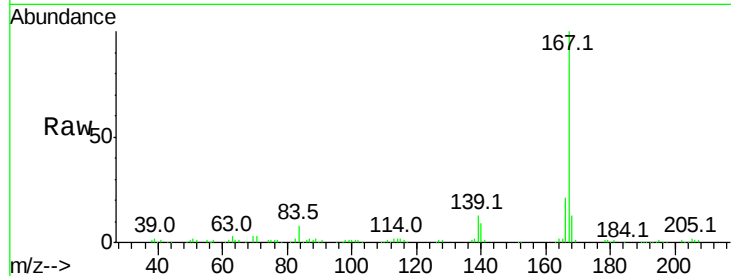
#72
 Carbazole
 Concen: 6.30 ng
 RT: 11.66 min Scan# 1661
 Delta R.T. -0.01 min
 Lab File: BF094164.D
 Acq: 4 Apr 2017 12:44

Instrument :
 BNA_F
 ClientSampled :
 TP-4DL

Tot Ion	Ratio	Lower	Upper
167	100		
166	21.1	18.1	27.1
139	12.6	11.7	17.5

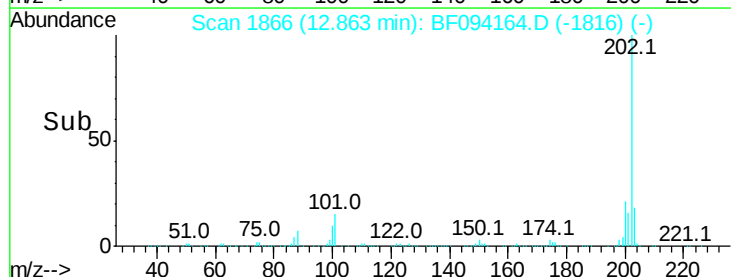
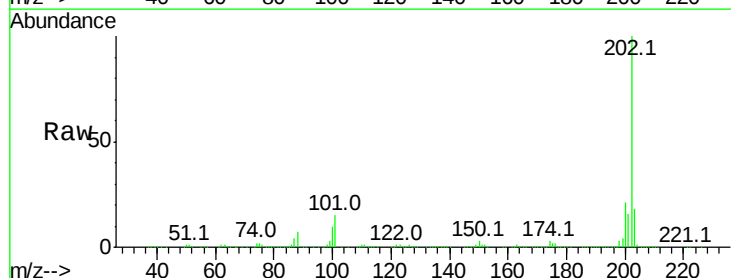
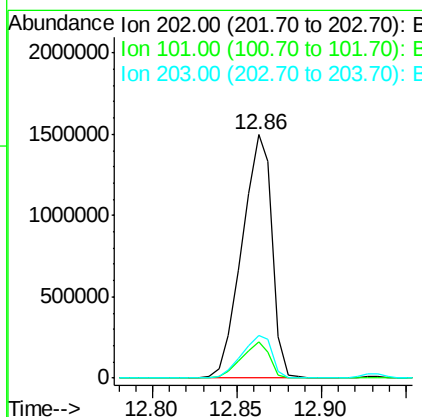
Manual Integrations
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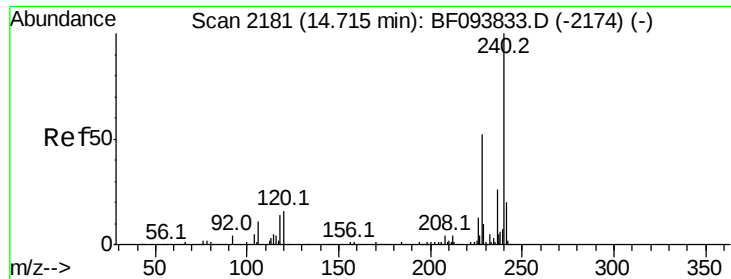
mohammad
 4/4/2017 5:35:43 PM



#74
 Fluoranthene
 Concen: 85.35 ng
 RT: 12.86 min Scan# 1866
 Delta R.T. -0.01 min
 Lab File: BF094164.D
 Acq: 4 Apr 2017 12:44

Tgt Ion	Ratio	Lower	Upper
202	100		
101	14.7	0.0	33.2
203	17.7	0.0	38.1





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.62 min Scan# 2165

Delta R.T. -0.01 min

Lab File: BF094164.D

Acq: 4 Apr 2017 12:44

Instrument :

BNA_F

ClientSampled :

TP-4DL

Tot Ion:240 Resp: 308472

Ion Ratio Lower Upper

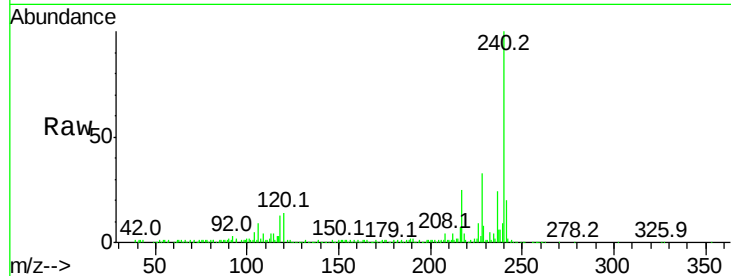
240 100

120 14.3 5.8 8.8#

236 24.3 20.5 30.7

Manual Integrations
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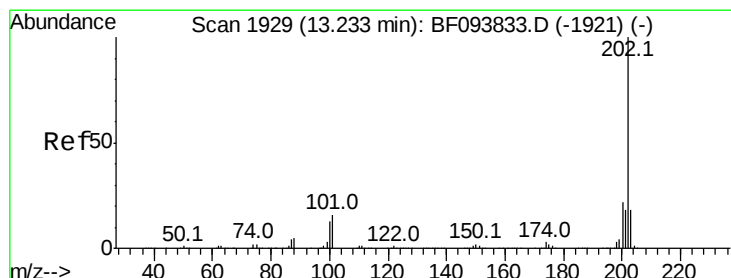
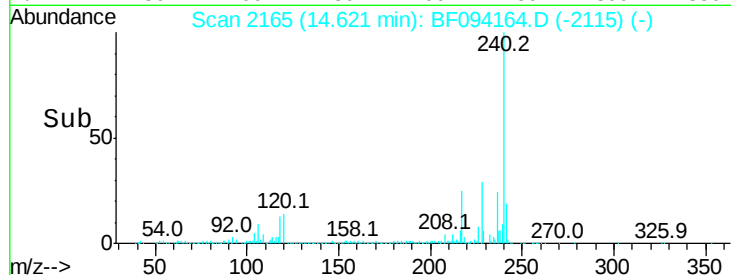
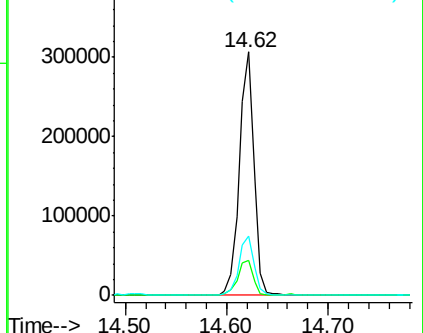
mohammad
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Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 72.07 ng

RT: 13.14 min Scan# 1913

Delta R.T. -0.01 min

Lab File: BF094164.D

Acq: 4 Apr 2017 12:44

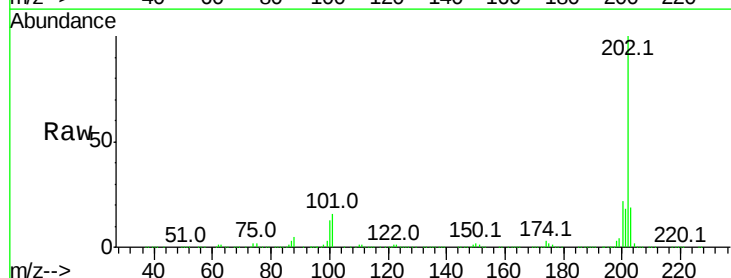
Tgt Ion:202 Resp: 1613512

Ion Ratio Lower Upper

202 100

200 21.6 17.6 26.4

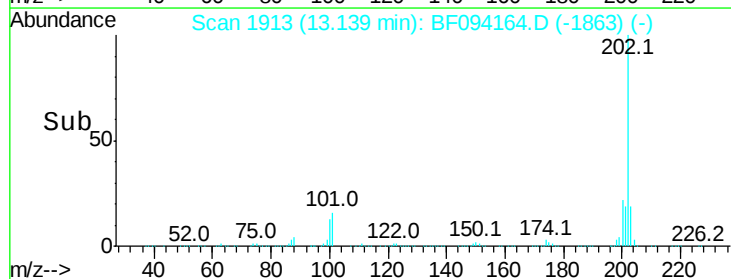
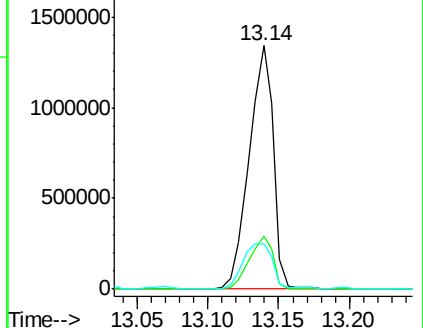
203 18.5 14.4 21.6

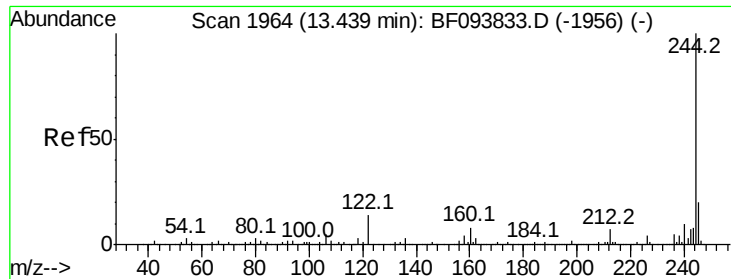


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





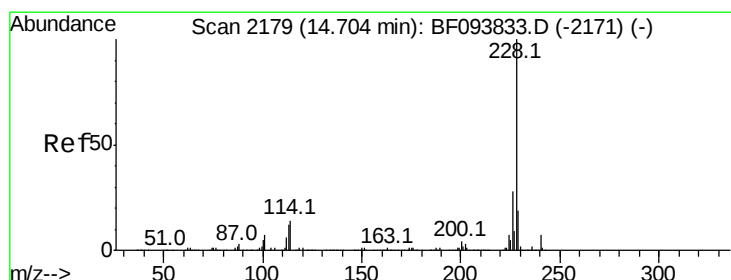
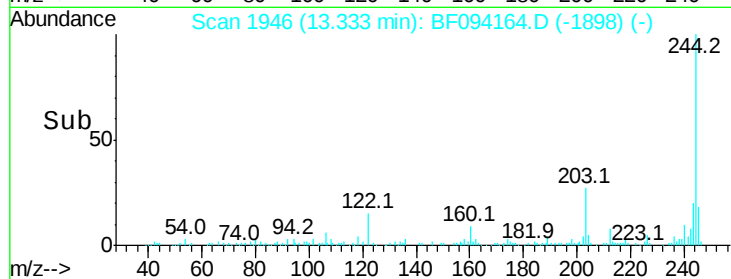
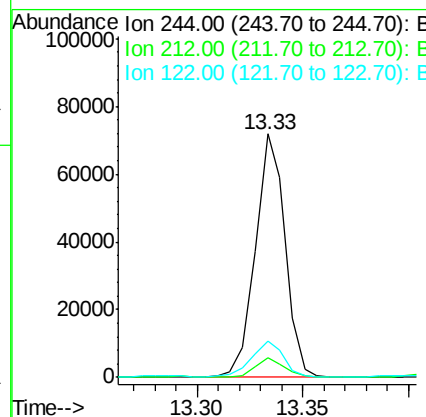
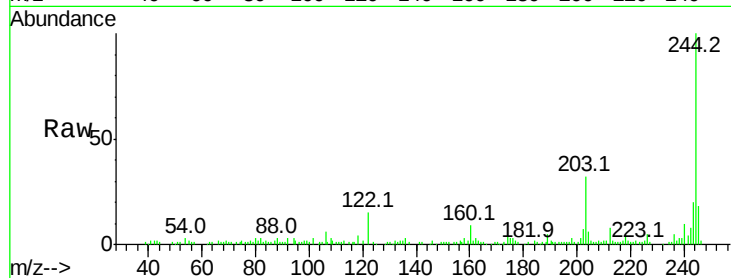
#78
 Terphenyl-d14
 Concen: 5.13 ng
 RT: 13.33 min Scan# 1946
 Delta R.T. -0.02 min
 Lab File: BF094164.D
 Acq: 4 Apr 2017 12:44

Instrument :
 BNA_F
 ClientSampleId :
 TP-4DL

Tot Ion	Ratio	Lower	Upper
244	100		
212	8.1	6.0	9.0
122	15.0	10.3	15.5

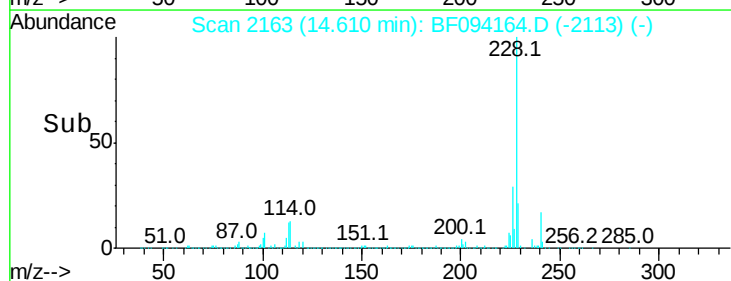
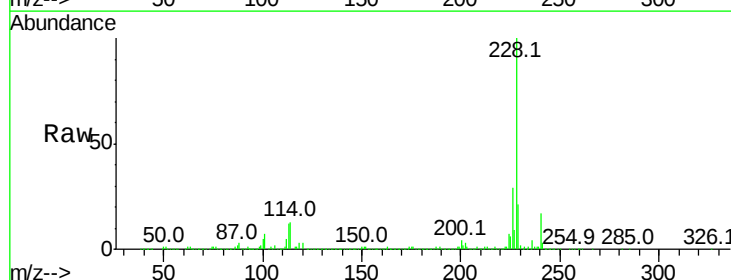
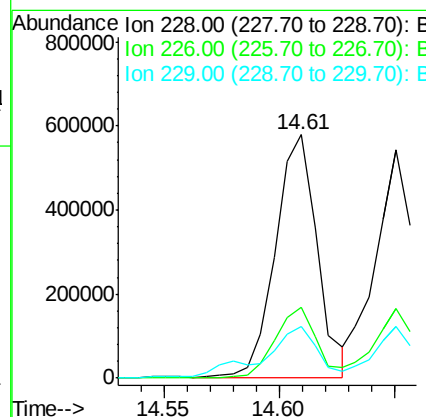
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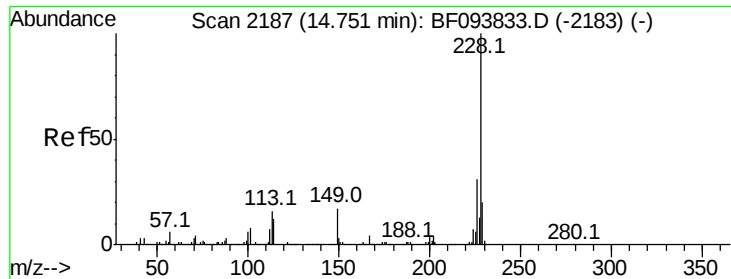
mohammad
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#80
 Benzo(a)anthracene
 Concen: 40.08 ng
 RT: 14.61 min Scan# 2163
 Delta R.T. -0.01 min
 Lab File: BF094164.D
 Acq: 4 Apr 2017 12:44

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.1	22.6	33.8
229	21.3	16.3	24.5





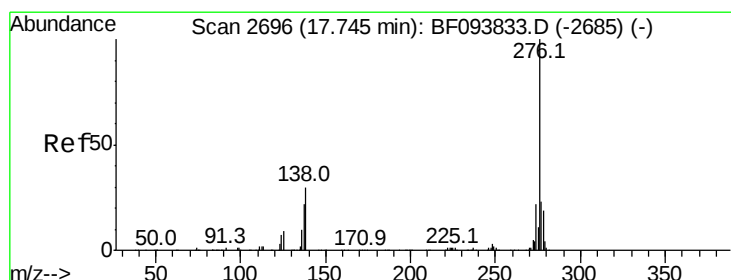
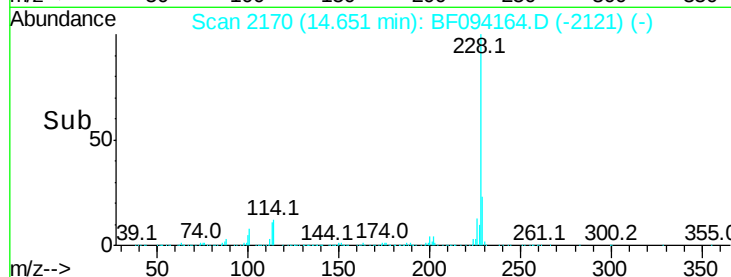
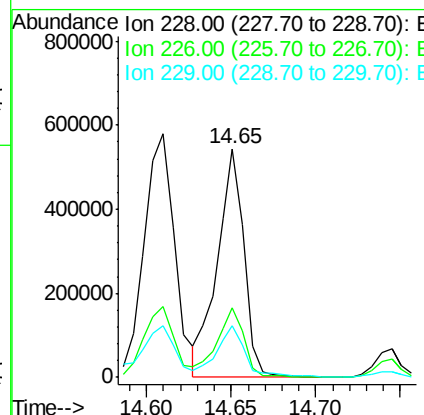
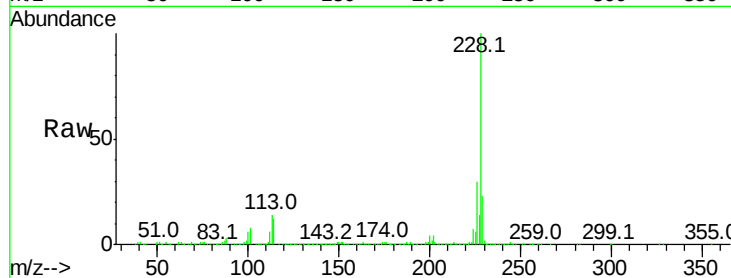
#82
Chrysene
Concen: 35.81 ng
RT: 14.65 min Scan# 2170
Delta R.T. -0.01 min
Lab File: BF094164.D
Acq: 4 Apr 2017 12:44

Instrument :
BNA_F
ClientSampleId :
TP-4DL

Tot Ion	Ratio	Lower	Upper
228	100		
226	30.2	24.9	37.3
229	22.8	15.8	23.6

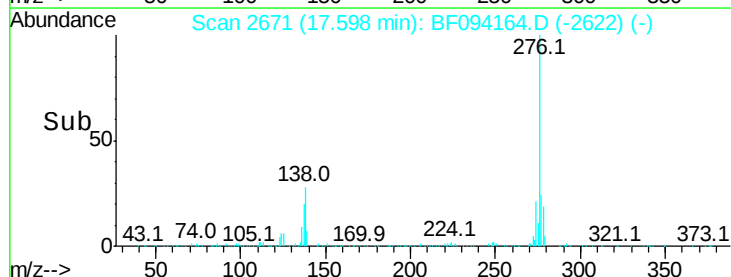
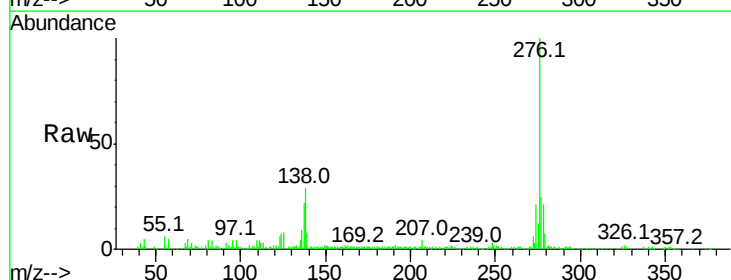
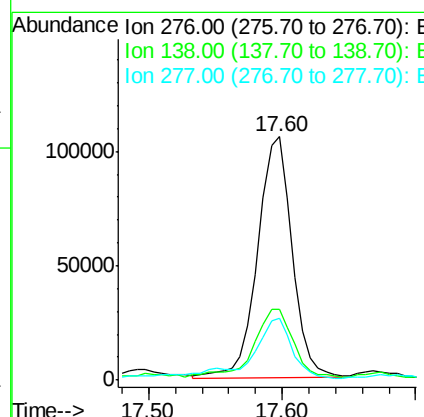
Manual Integrations
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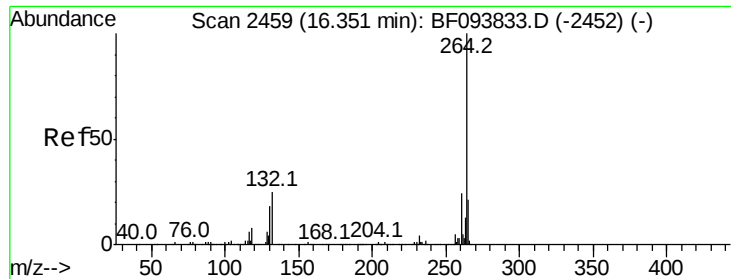
mohammad
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#85
Indeno(1,2,3-cd)pyrene
Concen: 13.07 ng
RT: 17.60 min Scan# 2671
Delta R.T. -0.01 min
Lab File: BF094164.D
Acq: 4 Apr 2017 12:44

Tgt Ion	Ratio	Lower	Upper
276	100		
138	32.0	27.8	41.6
277	23.9	20.2	30.4





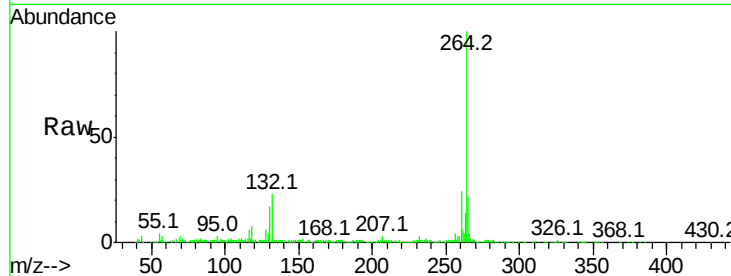
#86
Pervlene-d12
Concen: 20.00 ng
RT: 16.25 min Scan# 2442
Delta R.T. -0.00 min
Lab File: BF094164.D
Acq: 4 Apr 2017 12:44

Instrument :
BNA_F
ClientSampled :
TP-4DL

Tot Ion	Ratio	Lower	Upper
264	100		
260	23.7	19.5	29.3
265	22.1	17.2	25.8

Manual Integrations
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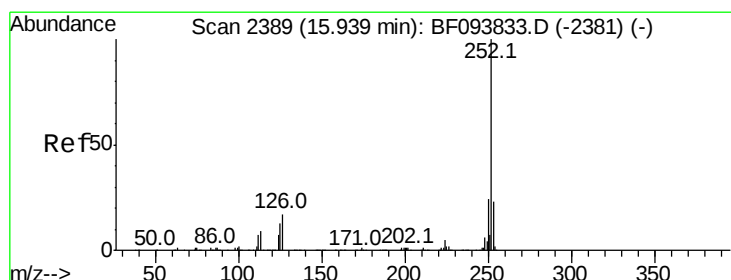
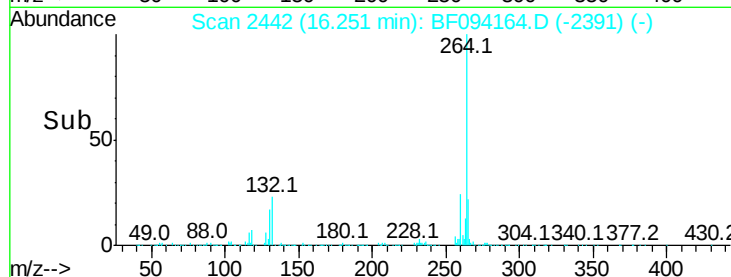
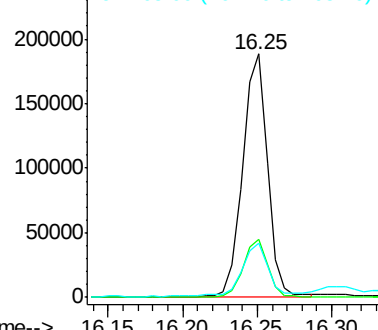


Abundance

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: 43.74 ng m
RT: 15.84 min Scan# 2373
Delta R.T. -0.01 min
Lab File: BF094164.D
Acq: 4 Apr 2017 12:44

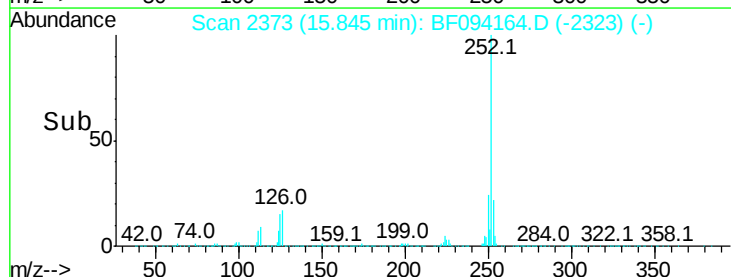
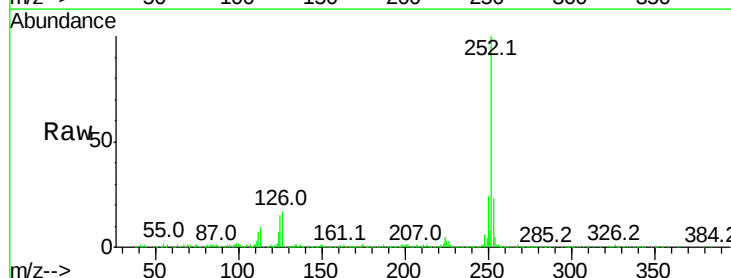
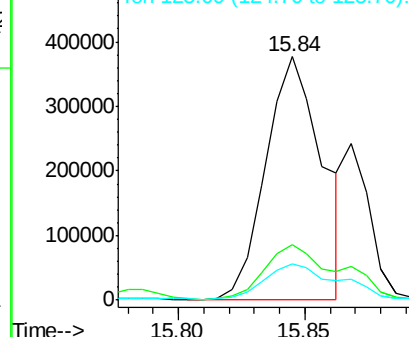
Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.6	18.1	27.1
125	14.9	9.8	14.8#

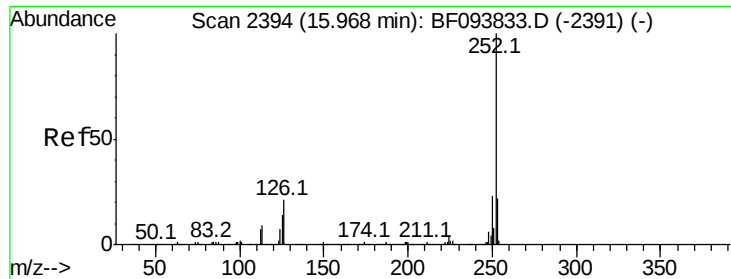
Abundance

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





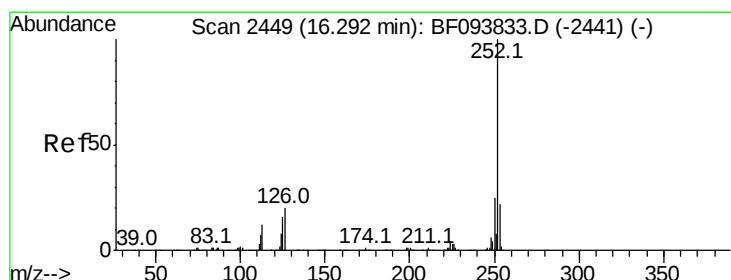
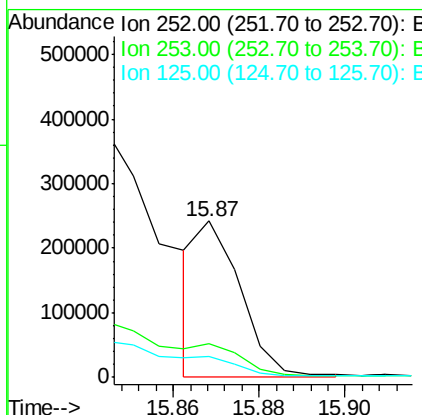
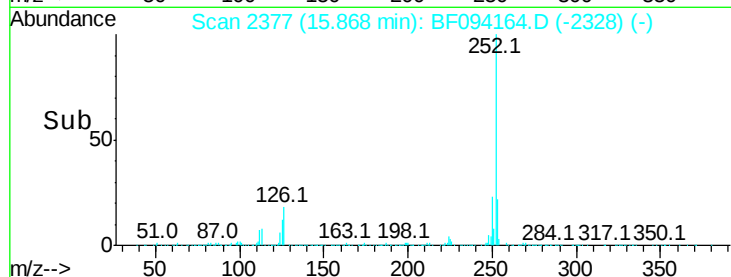
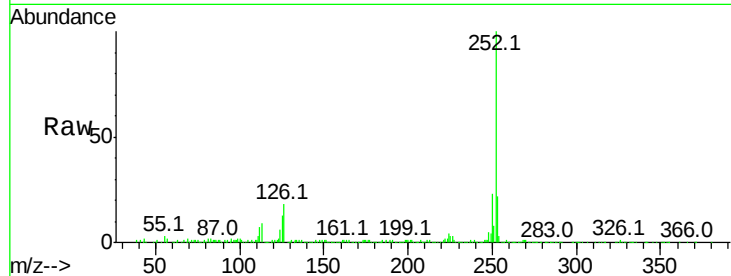
#88
Benzo(k)fluoranthene
Concen: 12.82 ng m
RT: 15.87 min Scan# 2377
Delta R.T. -0.01 min
Lab File: BF094164.D
Acq: 4 Apr 2017 12:44

Instrument :
BNA_F
ClientSampled :
TP-4DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	21.9	18.4	27.6
125	13.0	13.1	19.7

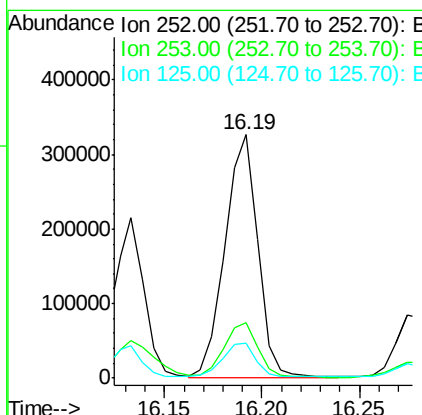
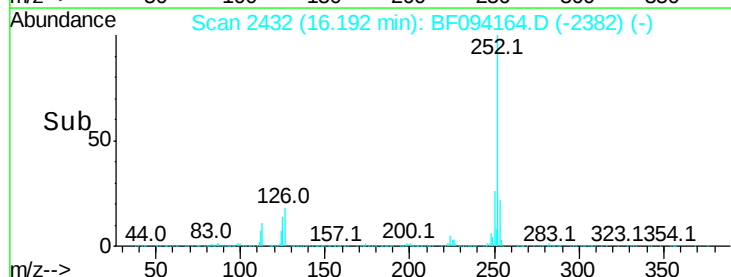
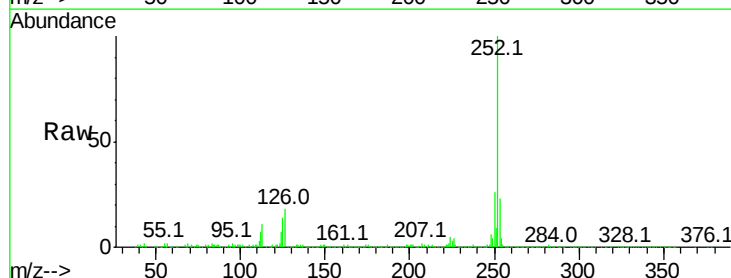
Manual Integrations
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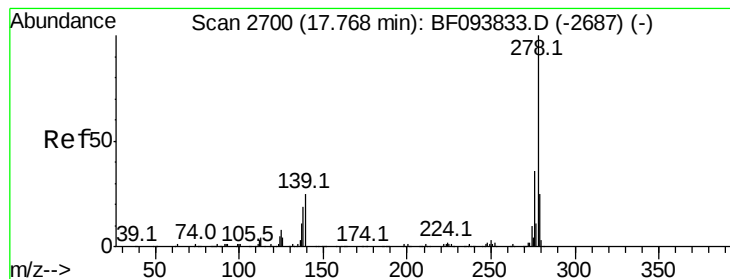
mohammad
4/4/2017 5:35:43 PM



#89
Benzo(a)pyrene
Concen: 30.64 ng
RT: 16.19 min Scan# 2432
Delta R.T. -0.01 min
Lab File: BF094164.D
Acq: 4 Apr 2017 12:44

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.5	17.5	26.3
125	14.3	11.0	16.4





#90

Dibenzo(a,h)anthracene

Concen: 4.97 ng

RT: 17.60 min Scan# 2672

Delta R.T. -0.03 min

Lab File: BF094164.D

Acq: 4 Apr 2017 12:44

Instrument :

BNA_F

ClientSampled :

TP-4DL

Tot Ion:278 Resp: 52009

Ion Ratio Lower Upper

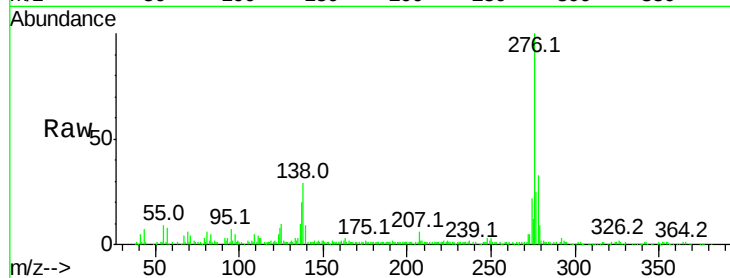
278 100

139 26.3 16.6 24.8#

279 28.5 19.3 28.9

Manual Integrations
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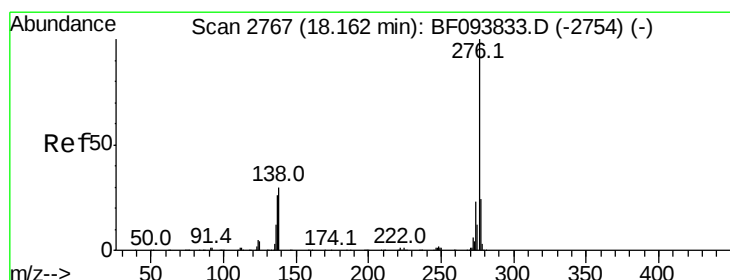
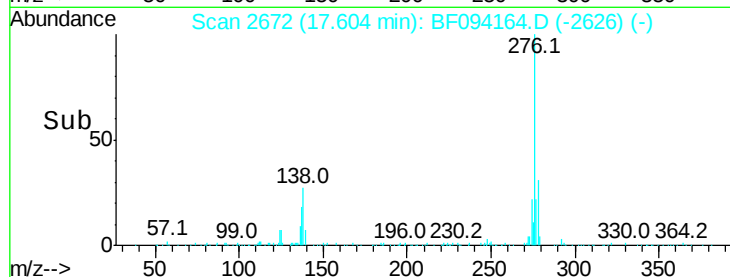
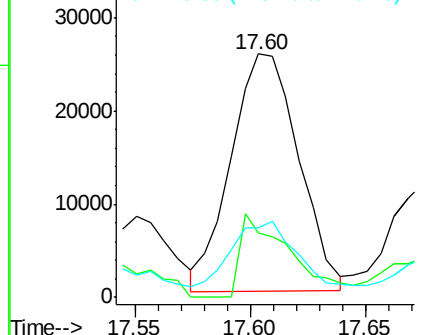
mohammad
4/4/2017 5:35:43 PM



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#91

Benzo(g,h,i)perylene

Concen: 15.29 ng

RT: 17.99 min Scan# 2738

Delta R.T. -0.02 min

Lab File: BF094164.D

Acq: 4 Apr 2017 12:44

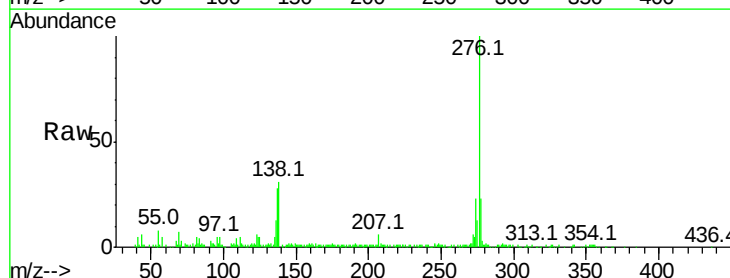
Tgt Ion:276 Resp: 161248

Ion Ratio Lower Upper

276 100

277 23.2 18.6 28.0

138 30.8 25.4 38.0



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

