

Data Path : Z:\HPCHEM1\BNA F\DATA\BF030817\
 Data File : BF093451.D
 Acq On : 9 Mar 2017 1:40
 Operator : SJ/MA
 Sample : I2133-10
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 HY-SB415A

Manual Integrations
 APPROVED

mohammad
 3/10/2017 8:12:39 AM

Quant Time: Mar 09 03:30:02 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF030717.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Mar 07 15:55:22 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.77	152	154192	20.00	ng	0.00
21) Naphthalene-d8	8.06	136	558691	20.00	ng	0.00
38) Acenaphthene-d10	9.82	164	214006	20.00	ng	0.01
63) Phenanthrene-d10	11.30	188	318982	20.00	ng	0.02
75) Chrysene-d12	13.95	240	285908	20.00	ng	0.02
86) Perylene-d12	15.39	264	247502	20.00	ng	0.06

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.36	112	1243506	134.22	ng	0.01
7) Phenol-d6	6.42	99	1542540	132.03	ng	0.01
23) Nitrobenzene-d5	7.34	82	914045	90.78	ng	0.00
41) 2,4,6-Tribromophenol	10.61	330	208131	149.27	ng	0.01
44) 2-Fluorobiphenyl	9.13	172	1289903	112.11	ng	0.00
78) Terphenyl-d14	12.88	244	942054	85.67	ng	0.01

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Phenol	6.44	94	42857	2.99	ng	92
48) Acenaphthylene	9.68	152	66484	3.38	ng	# 48
49) Dimethylphthalate	9.53	163	252985	17.83	ng	# 97
51) Acenaphthene	9.84	154	59364	5.10	ng	# 90
70) Phenanthrene	11.33	178	143711	7.89	ng	# 90
71) Anthracene	11.37	178	49120	2.67	ng	# 77
74) Fluoranthene	12.52	202	339325	19.29	ng	98
77) Pyrene	12.75	202	517258	24.88	ng	99
80) Benzo(a)anthracene	13.93	228	396027	23.46	ng	# 92
82) Chrysene	13.98	228	317487m	20.32	ng	
85) Indeno(1,2,3-cd)pyrene	16.77	276	321386	24.58	ng	97
87) Benzo(b)fluoranthene	14.97	252	526111m	34.90	ng	
88) Benzo(k)fluoranthene	14.99	252	221552m	15.24	ng	
89) Benzo(a)pyrene	15.33	252	435624	31.62	ng	# 91
90) Dibenzo(a,h)anthracene	16.77	278	67026	5.88	ng	# 57
91) Benzo(g,h,i)perylene	17.19	276	331904	28.37	ng	# 90

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

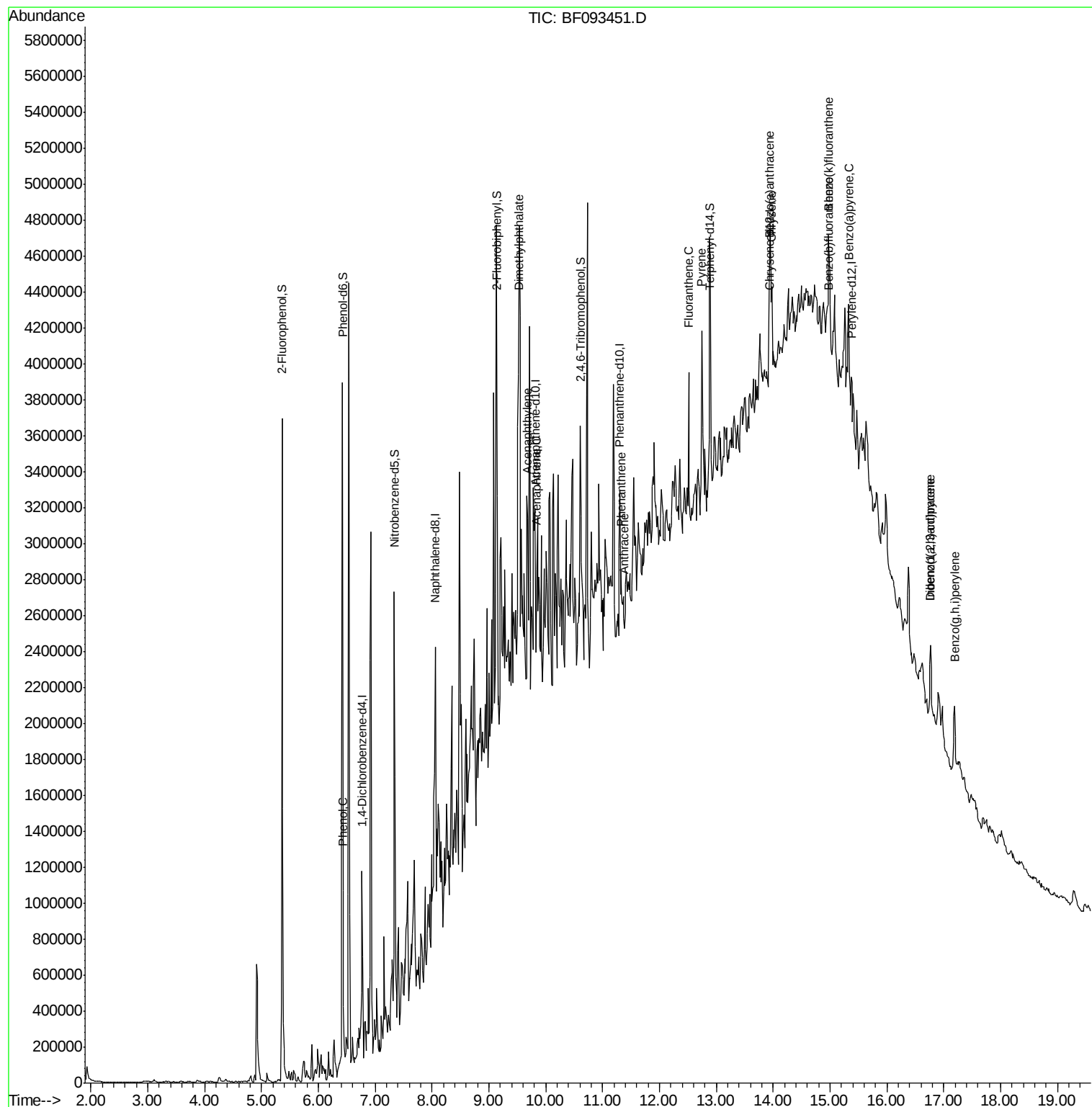
Data Path : Z:\HPCHEM1\BNA F\DATA\BF030817\
Data File : BF093451.D
Acq On : 9 Mar 2017 1:40
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ALS Vial : 23 Sample Multiplier: 1

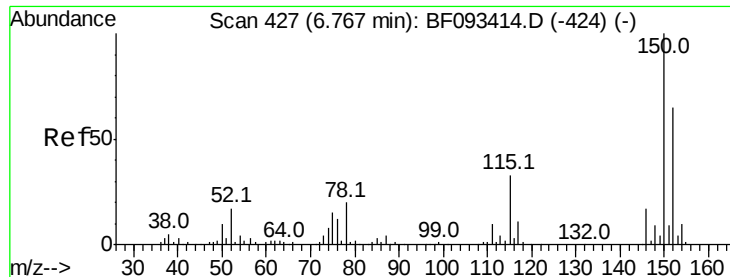
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#1

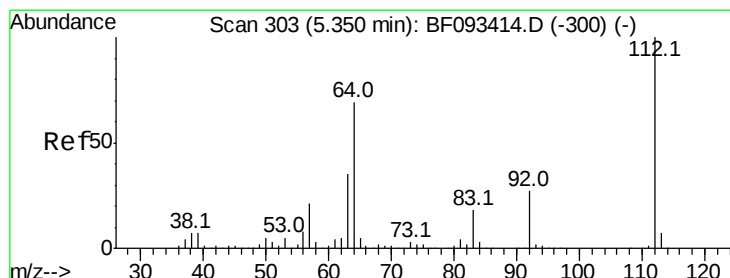
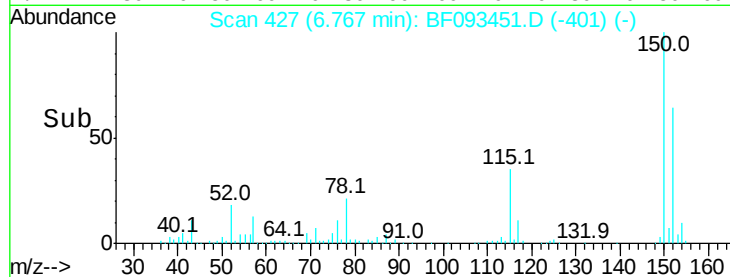
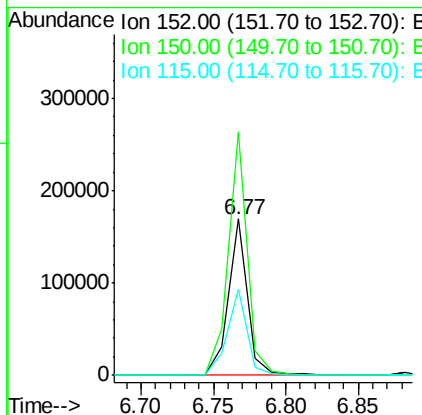
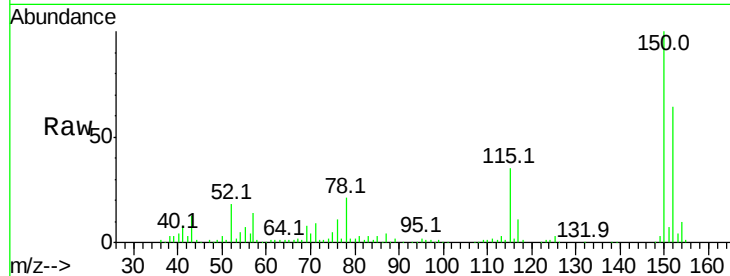
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.77 min Scan# 427
Delta R.T. -0.00 min
Lab File: BF093451.D
Acq: 9 Mar 2017 1:40

Instrument :
BNA_F
ClientSampleId :
HY-SB415A

Tot Ion	Ratio	Lower	Upper
152	100		
150	155.8	124.9	187.3
115	54.9	46.0	69.0

Manual Integrations
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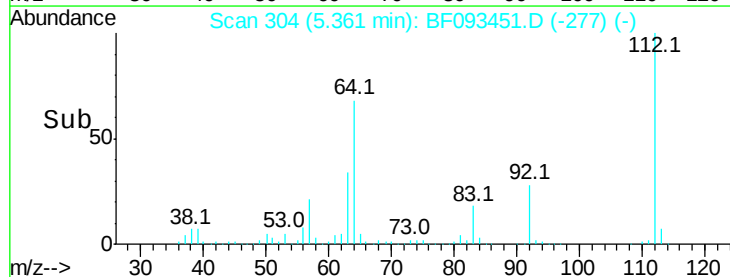
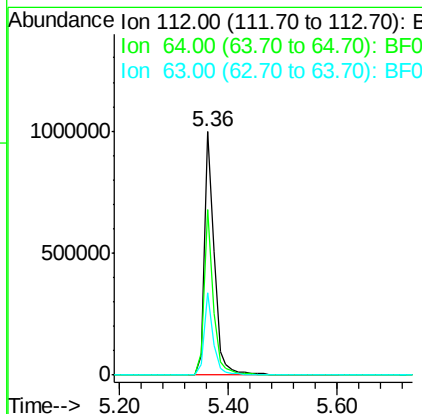
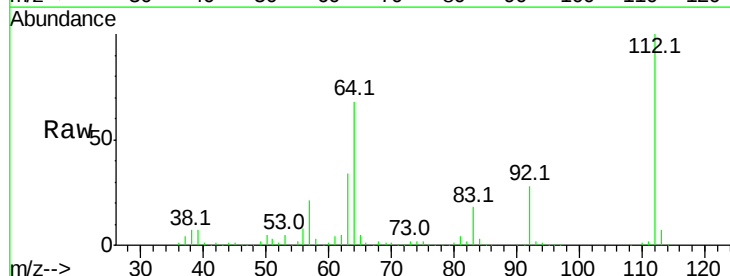
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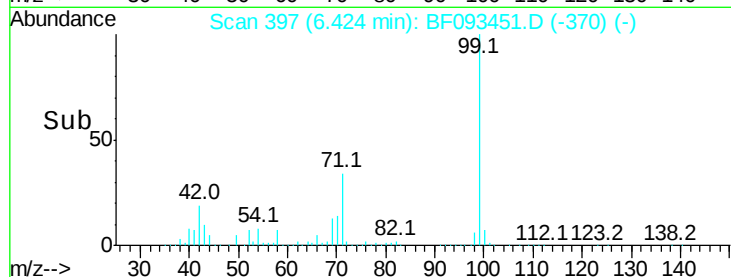
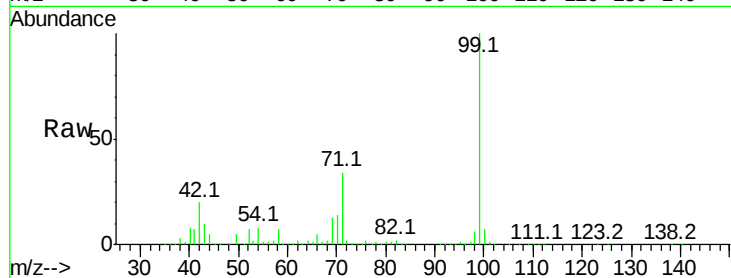
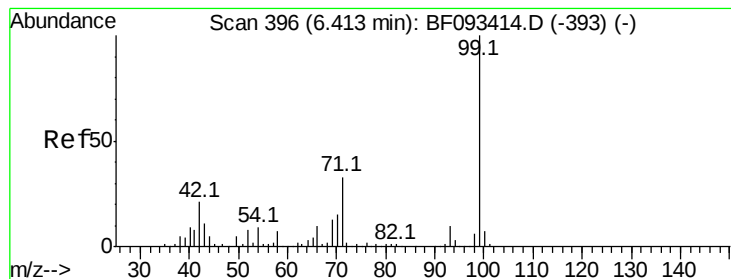


#5

2-Fluorophenol
Concen: 134.22 ng
RT: 5.36 min Scan# 304
Delta R.T. 0.01 min
Lab File: BF093451.D
Acq: 9 Mar 2017 1:40

Tgt Ion	Ratio	Lower	Upper
112	100		
64	68.2	46.1	69.1
63	33.7	23.8	35.6





#7

Phenol-d6

Concen: 132.03 ng

RT: 6.42 min Scan# 397

Delta R.T. 0.01 min

Lab File: BF093451.D

Acq: 9 Mar 2017 1:40

Tot Ion: 99 Resp: 1542540

Ion Ratio Lower Upper

99 100

42 19.6 15.6 23.4

71 33.9 27.5 41.3

Instrument :

BNA_F

ClientSampleId :

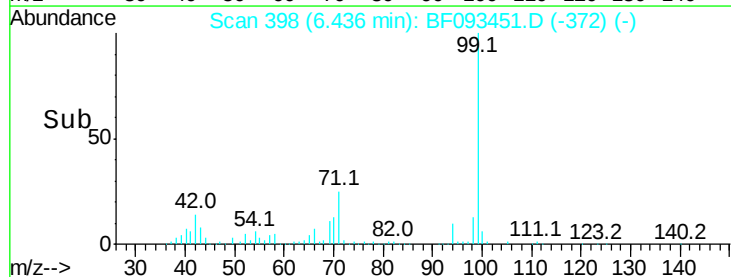
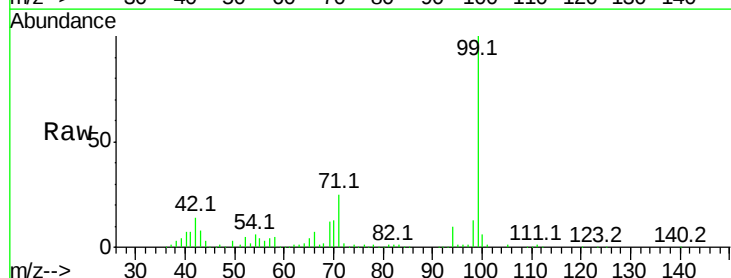
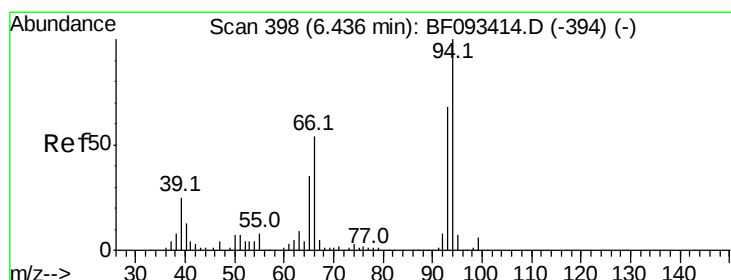
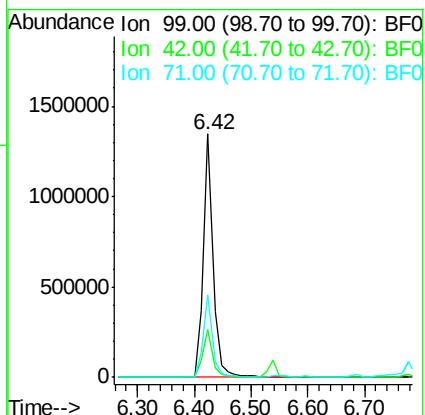
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#10

Phenol

Concen: 2.99 ng

RT: 6.44 min Scan# 398

Delta R.T. -0.00 min

Lab File: BF093451.D

Acq: 9 Mar 2017 1:40

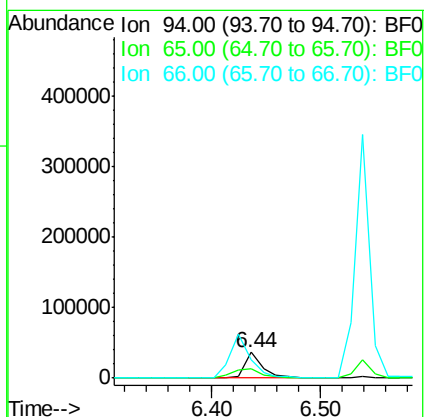
Tgt Ion: 94 Resp: 42857

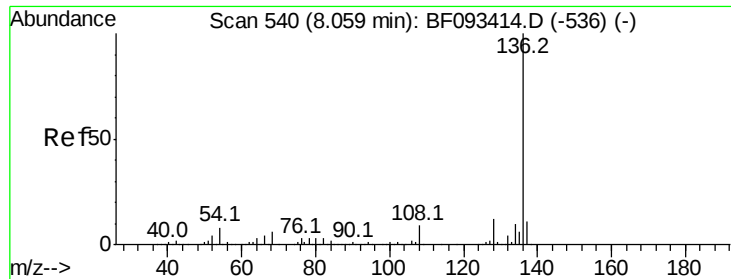
Ion Ratio Lower Upper

94 100

65 36.1 21.4 61.4

66 70.3 44.0 84.0





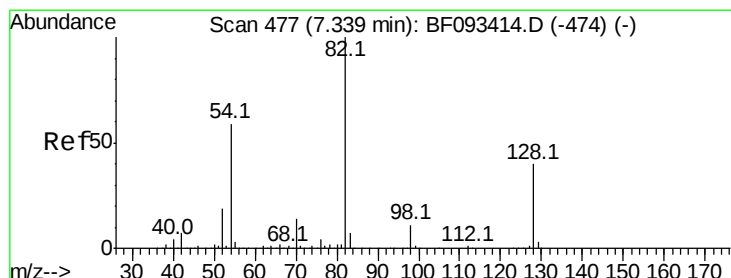
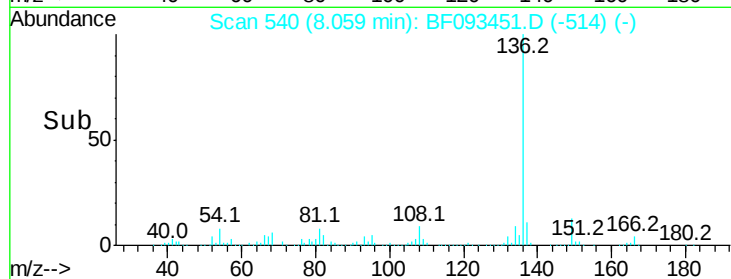
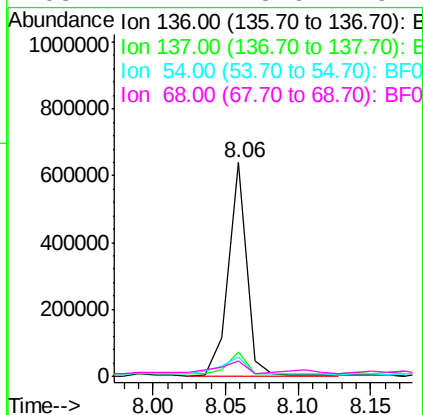
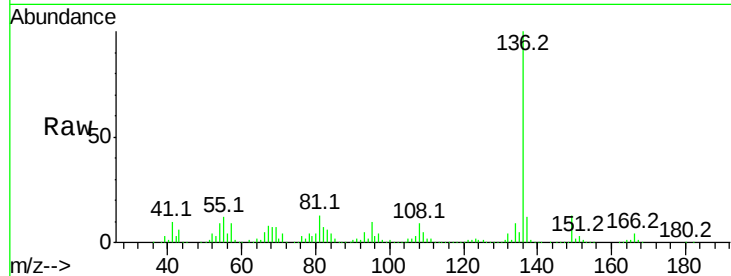
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.06 min Scan# 540
Delta R.T. -0.00 min
Lab File: BF093451.D
Acq: 9 Mar 2017 1:40

Instrument :
BNA_F
ClientSampleId :
HY-SB415A

Tot Ion	Ratio	Resp Lower	Upper
136	100		
137	11.6	8.4	12.6
54	9.2	4.5	6.7#
68	7.4	3.6	5.4#

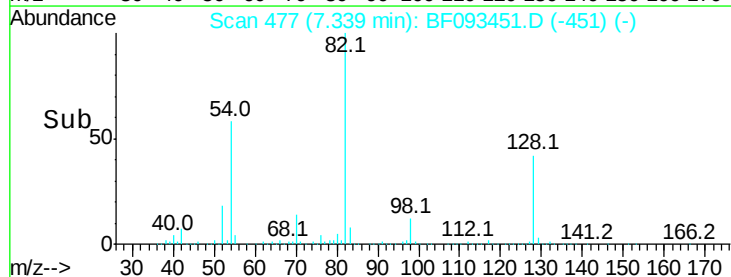
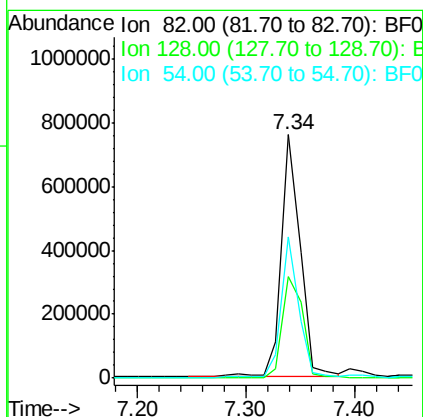
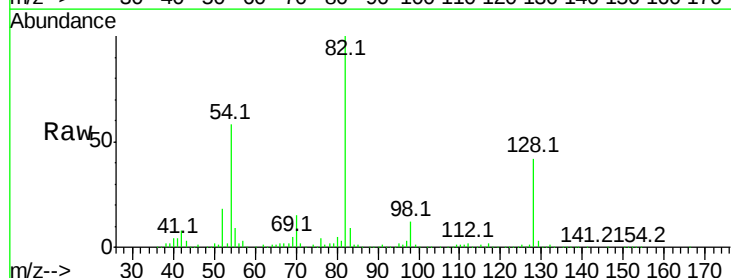
Manual Integrations
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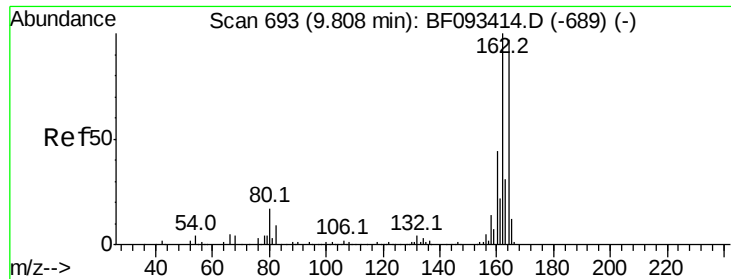
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#23
Nitrobenzene-d5
Concen: 90.78 ng
RT: 7.34 min Scan# 477
Delta R.T. -0.00 min
Lab File: BF093451.D
Acq: 9 Mar 2017 1:40

Tgt Ion	Ratio	Resp Lower	Upper
82	100		
128	41.7	34.6	52.0
54	58.1	39.5	59.3





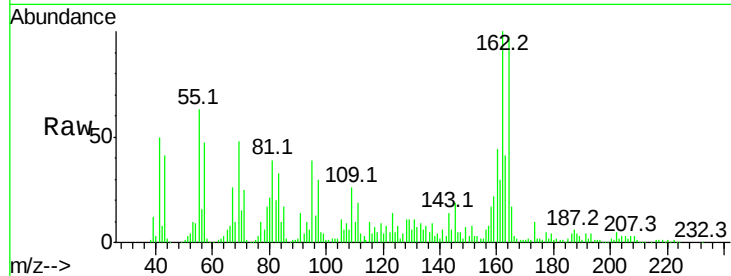
#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.82 min Scan# 694
Delta R.T. 0.01 min
Lab File: BF093451.D
Acq: 9 Mar 2017 1:40

Instrument :
BNA_F
ClientSampled :
HY-SB415A

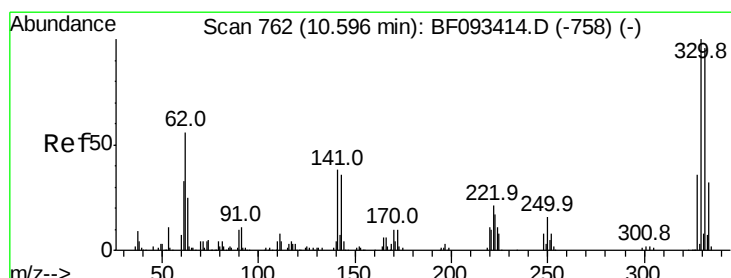
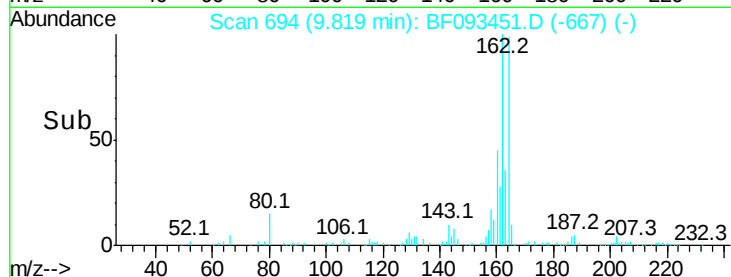
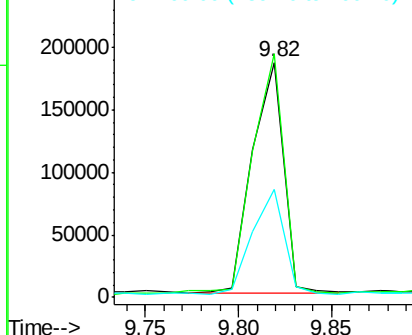
Tot Ion	Ratio	Lower	Upper
164	100		
162	103.6	80.2	120.2
160	45.9	36.9	55.3

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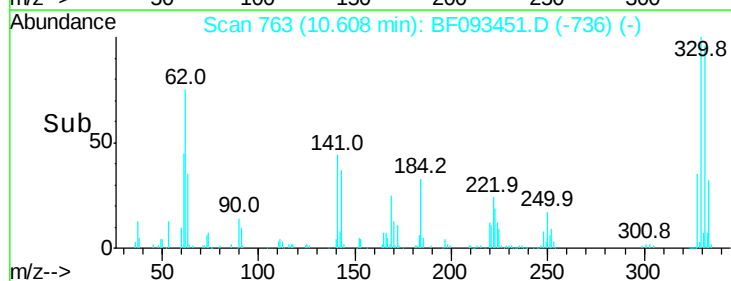
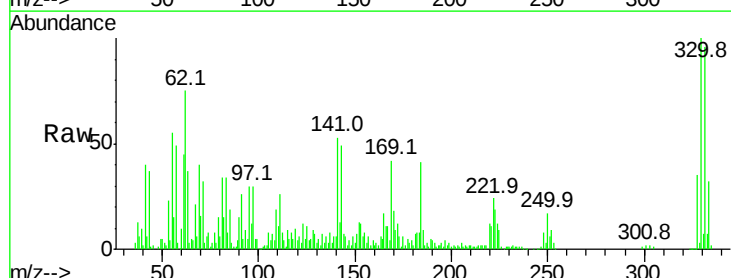
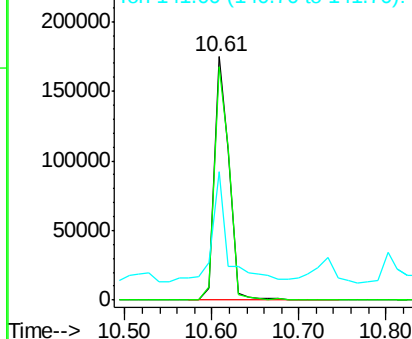
Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

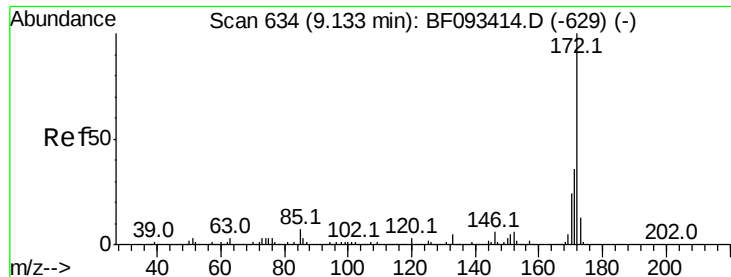


#41
2,4,6-Tribromophenol
Concen: 149.27 ng
RT: 10.61 min Scan# 763
Delta R.T. 0.01 min
Lab File: BF093451.D
Acq: 9 Mar 2017 1:40

Tgt Ion	Ratio	Lower	Upper
330	100		
332	98.2	77.4	116.2
141	48.4	34.1	51.1

Abundance Ion 329.80 (329.50 to 330.50): E
Ion 331.80 (331.50 to 332.50): E
Ion 141.00 (140.70 to 141.70): E





#44

2-Fluorobiphenyl

Concen: 112.11 ng

RT: 9.13 min Scan# 634

Delta R.T. -0.00 min

Lab File: BF093451.D

Acq: 9 Mar 2017 1:40

Instrument :

BNA_F

ClientSampleId :

HY-SB415A

Tot Ion:172 Resp: 1289903

Ion Ratio Lower Upper

172 100

171 36.9 29.4 44.0

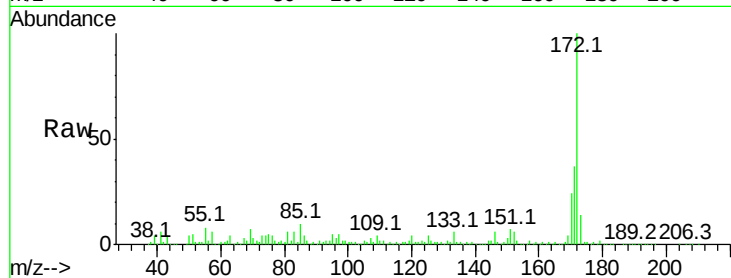
170 24.4 20.2 30.4

Manual Integrations

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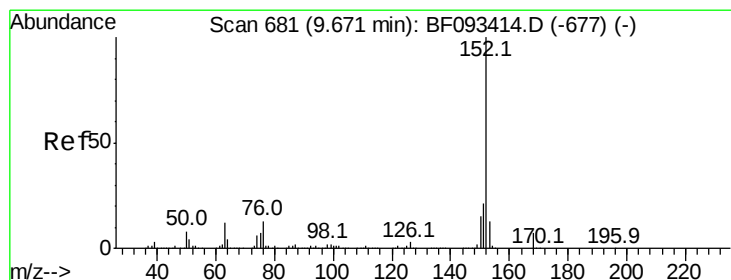
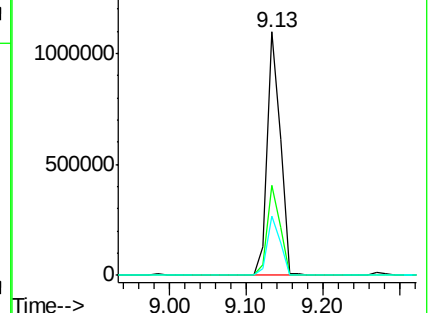
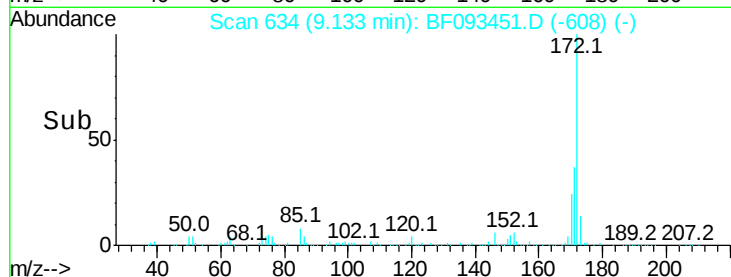
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Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#48

Acenaphthylene

Concen: 3.38 ng

RT: 9.68 min Scan# 682

Delta R.T. 0.01 min

Lab File: BF093451.D

Acq: 9 Mar 2017 1:40

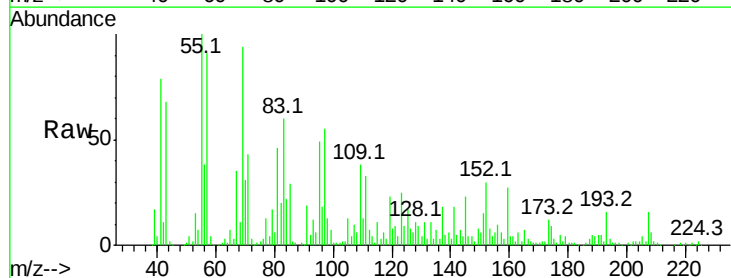
Tgt Ion:152 Resp: 66484

Ion Ratio Lower Upper

152 100

151 52.1 16.9 25.3#

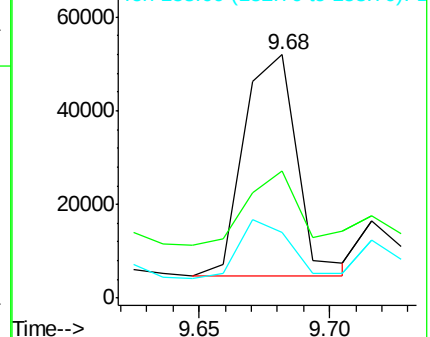
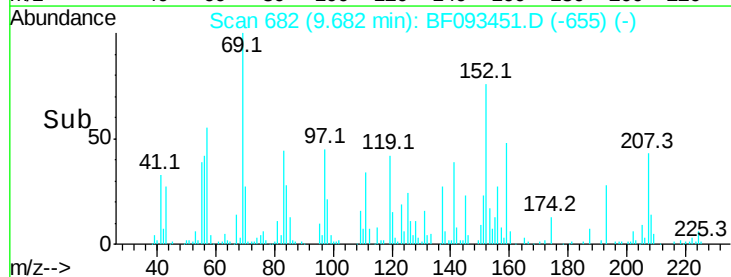
153 27.2 11.4 17.2#

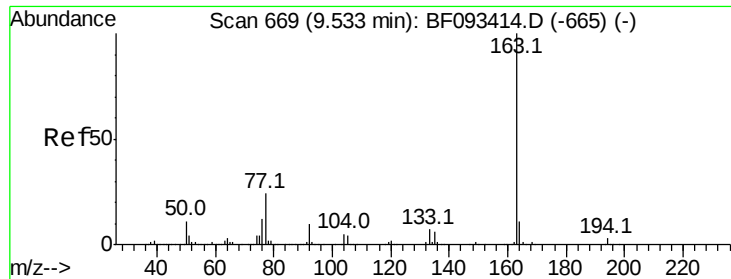


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





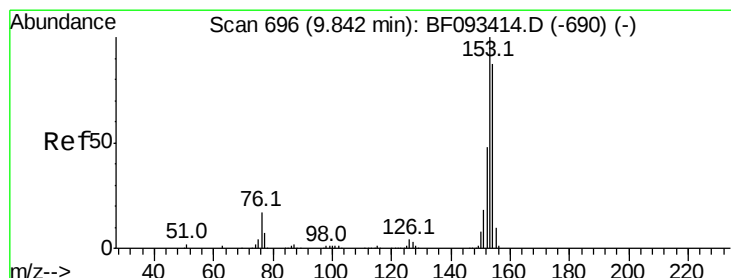
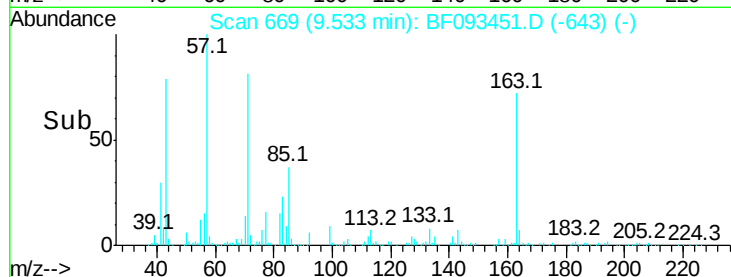
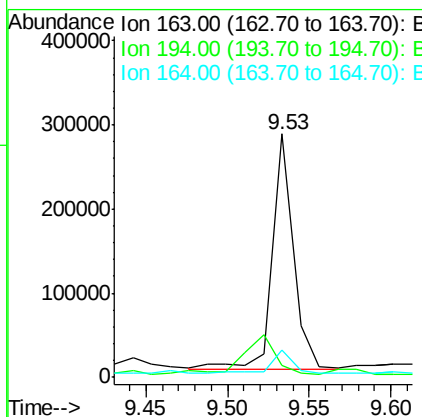
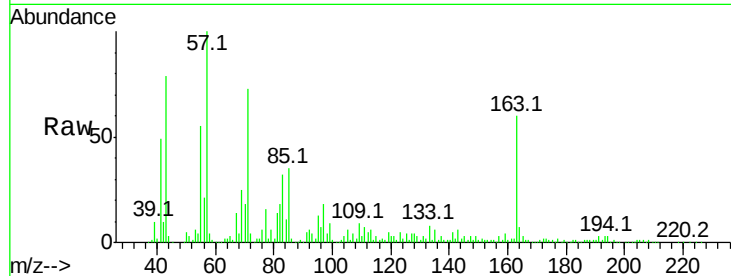
#49
Dimethylphthalate
Concen: 17.83 ng
RT: 9.53 min Scan# 669
Delta R.T. -0.00 min
Lab File: BF093451.D
Acq: 9 Mar 2017 1:40

Instrument :
BNA_F
ClientSampleId :
HY-SB415A

Tot Ion	Ratio	Resp Lower	Upper
163	100		
194	4.9	3.0	4.4#
164	11.1	8.0	12.0

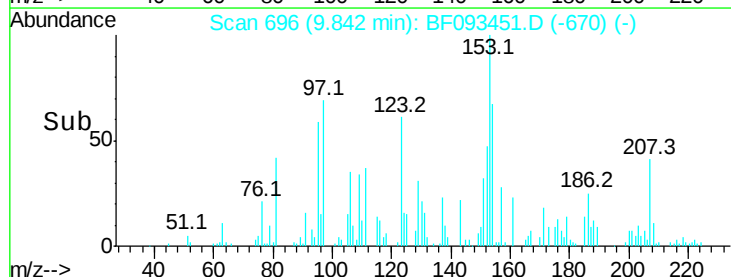
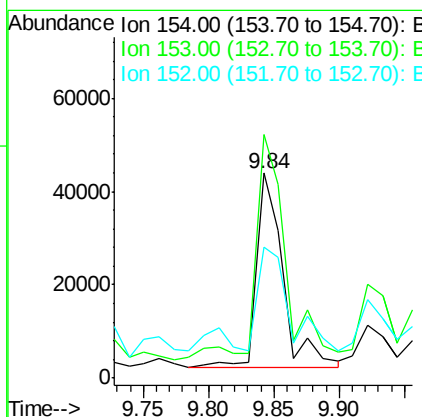
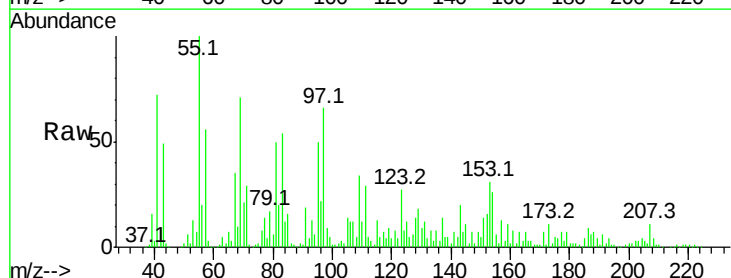
Manual Integrations
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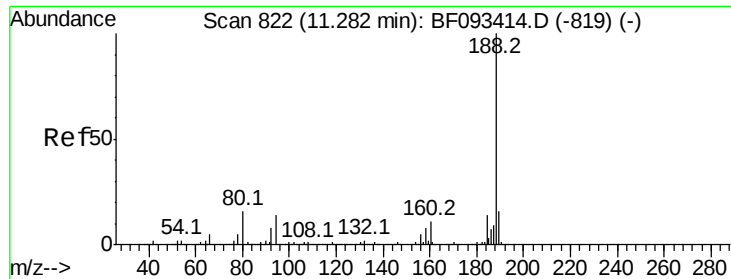
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3/10/2017 8:12:39 AM



#51
Acenaphthene
Concen: 5.10 ng
RT: 9.84 min Scan# 696
Delta R.T. -0.00 min
Lab File: BF093451.D
Acq: 9 Mar 2017 1:40

Tgt Ion	Ratio	Resp Lower	Upper
154	100		
153	118.8	88.6	133.0
152	63.7	41.6	62.4#





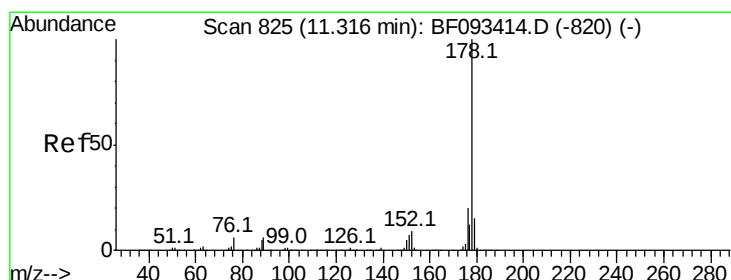
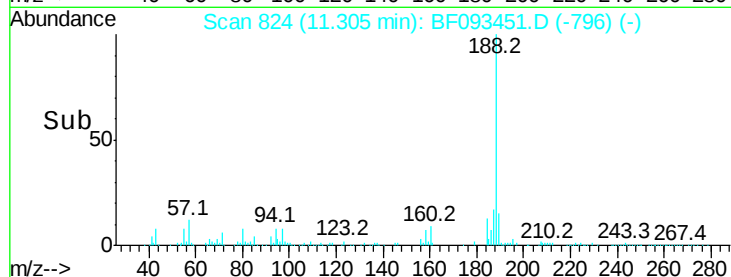
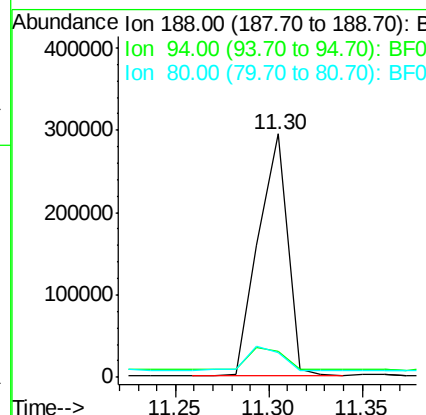
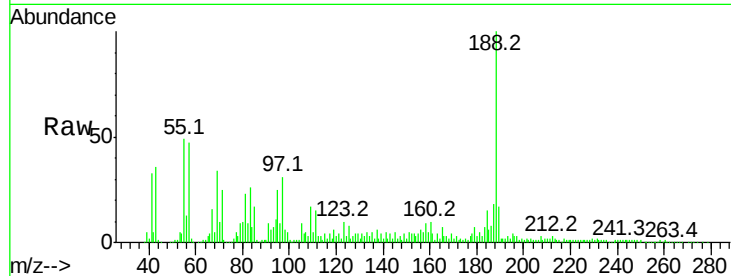
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.30 min Scan# 824
Delta R.T. 0.02 min
Lab File: BF093451.D
Acq: 9 Mar 2017 1:40

Instrument :
BNA_F
ClientSampleId :
HY-SB415A

Tot Ion	Ratio	Resp Lower	Resp Upper
188	100		
94	10.9	10.0	15.0
80	10.2	11.2	16.8

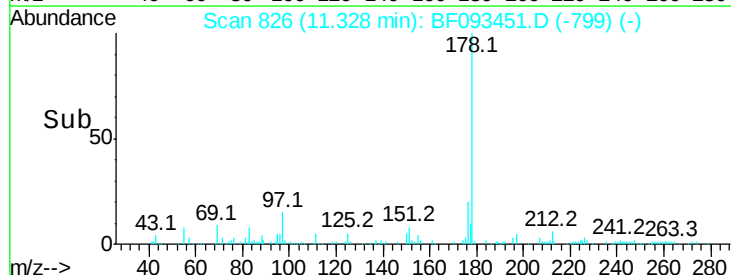
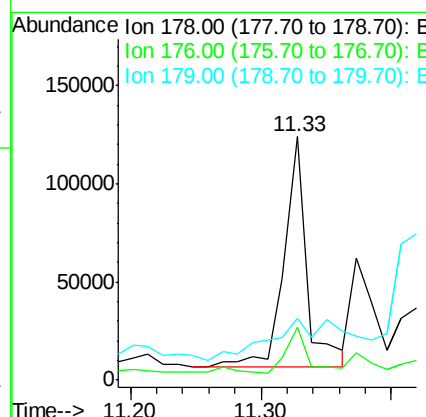
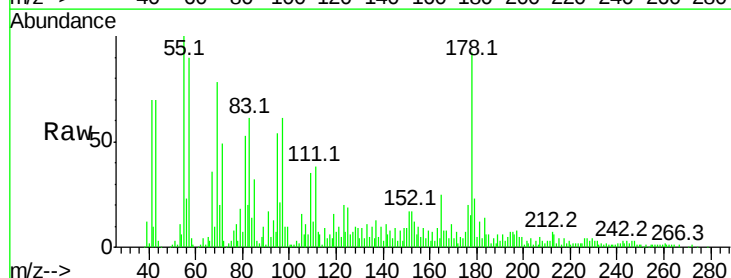
Manual Integrations
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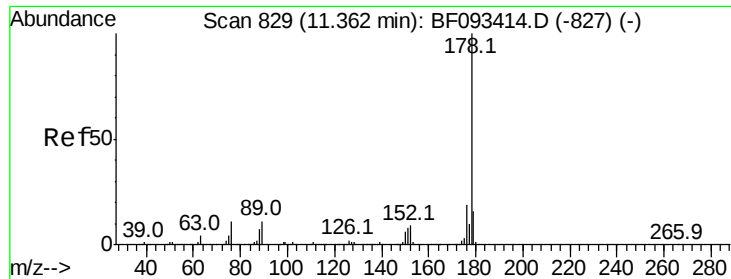
mohammad
3/10/2017 8:12:39 AM



#70
Phenanthrene
Concen: 7.89 ng
RT: 11.33 min Scan# 826
Delta R.T. 0.01 min
Lab File: BF093451.D
Acq: 9 Mar 2017 1:40

Tgt Ion	Ratio	Resp Lower	Resp Upper
178	100		
176	21.6	16.6	25.0
179	25.3	12.8	19.2





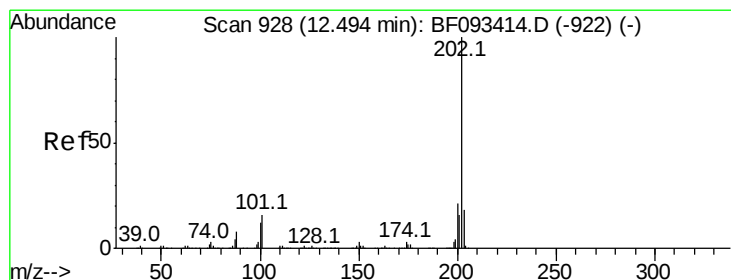
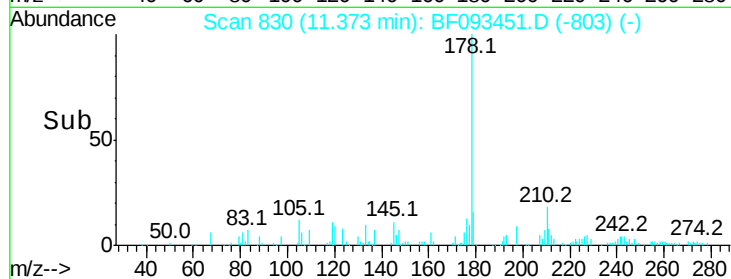
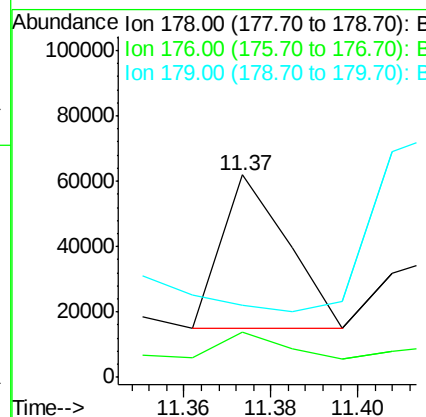
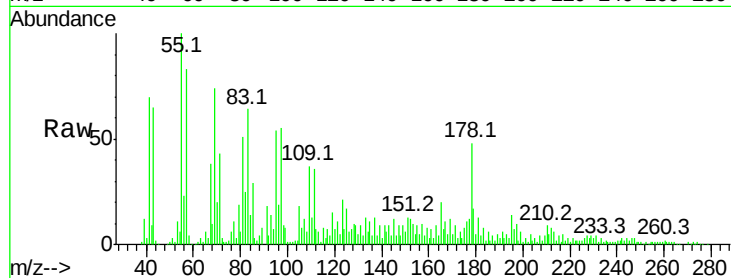
#71
 Anthracene
 Concen: 2.67 ng
 RT: 11.37 min Scan# 830
 Delta R.T. 0.01 min
 Lab File: BF093451.D
 Acq: 9 Mar 2017 1:40

Instrument :
 BNA_F
 ClientSampled :
 HY-SB415A

Tot Ion	Ratio	Lower	Upper
178	100		
176	22.3	15.9	23.9
179	35.7	13.2	19.8

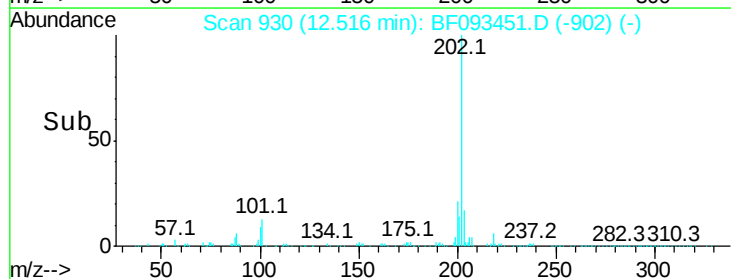
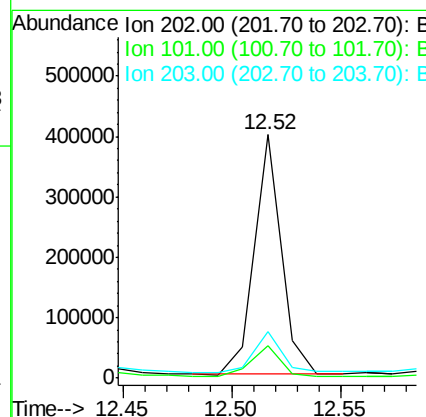
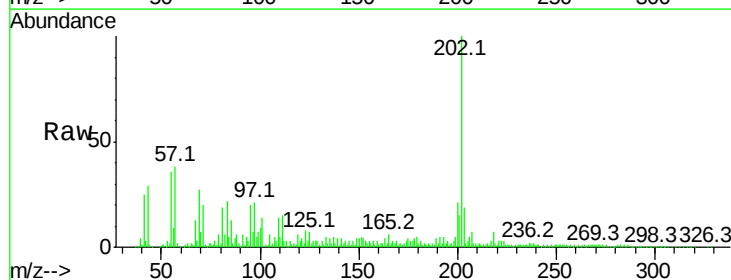
Manual Integrations
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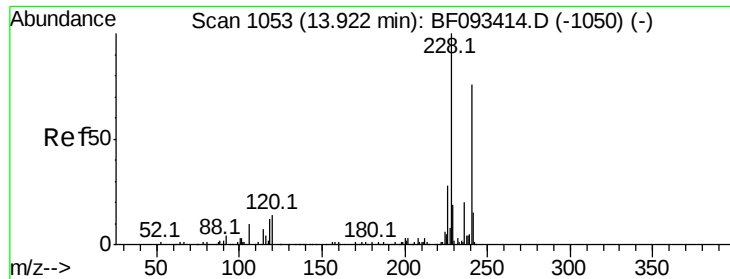
mohammad
 3/10/2017 8:12:39 AM



#74
 Fluoranthene
 Concen: 19.29 ng
 RT: 12.52 min Scan# 930
 Delta R.T. 0.02 min
 Lab File: BF093451.D
 Acq: 9 Mar 2017 1:40

Tgt Ion	Ratio	Lower	Upper
202	100		
101	13.6	0.0	34.6
203	19.2	0.0	38.7





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.95 min Scan# 1055

Delta R.T. 0.02 min

Lab File: BF093451.D

Acq: 9 Mar 2017 1:40

Instrument :

BNA_F

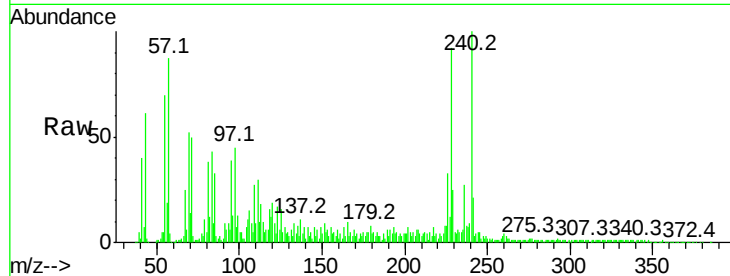
ClientSampleId :

HY-SB415A

Tot Ion	Ratio	Lower	Upper
240	100		
120	19.5	12.9	19.3#
236	27.5	20.9	31.3

Manual Integrations
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3/10/2017 8:12:39 AM

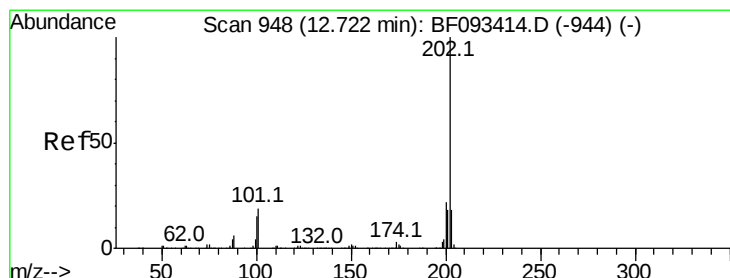
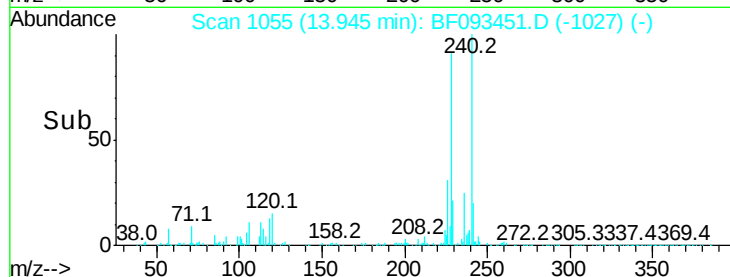
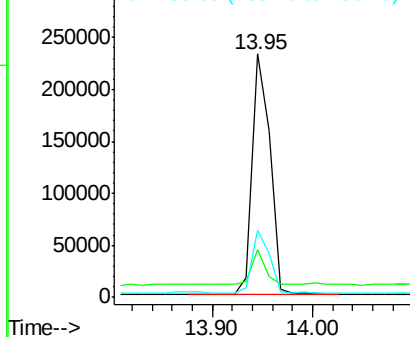


Abundance

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: 24.88 ng

RT: 12.75 min Scan# 950

Delta R.T. 0.02 min

Lab File: BF093451.D

Acq: 9 Mar 2017 1:40

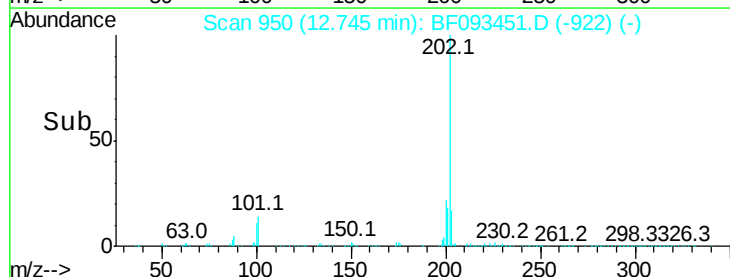
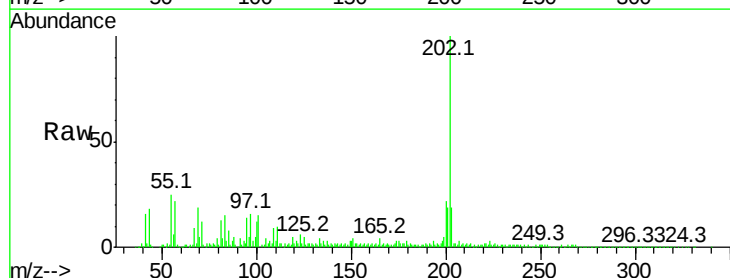
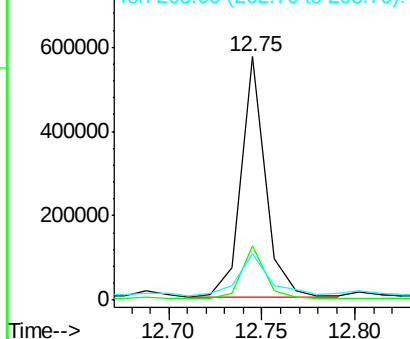
Tgt Ion	Ratio	Lower	Upper
202	100		
200	22.0	17.7	26.5
203	19.0	14.7	22.1

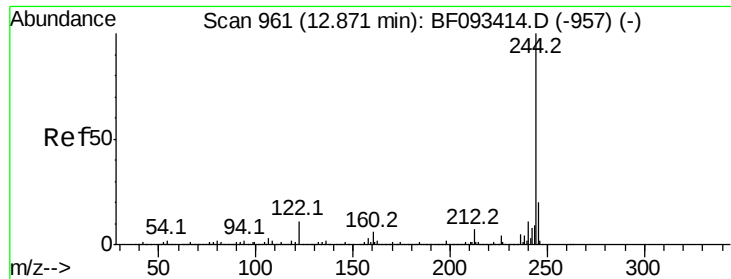
Abundance

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





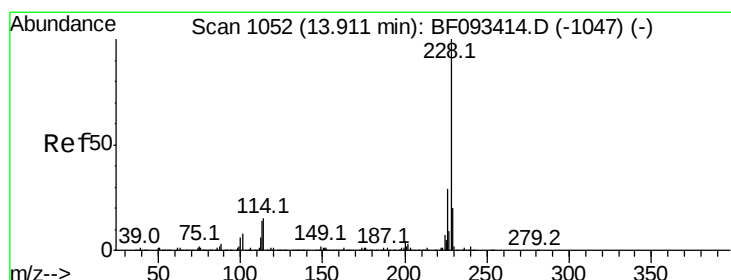
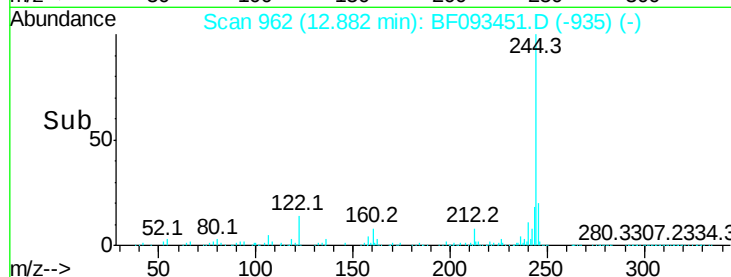
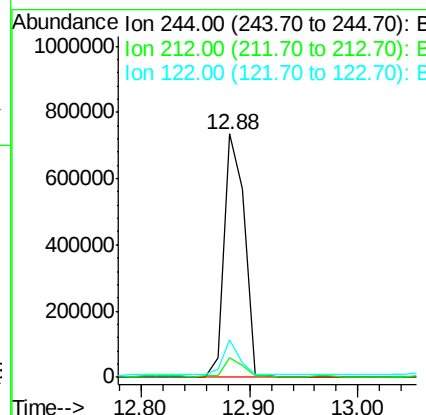
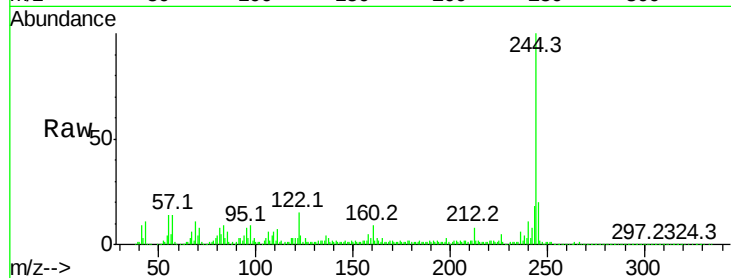
#78
 Terphenyl-d14
 Concen: 85.67 ng
 RT: 12.88 min Scan# 962
 Delta R.T. 0.01 min
 Lab File: BF093451.D
 Acq: 9 Mar 2017 1:40

Instrument :
 BNA_F
 ClientSampled :
 HY-SB415A

Tot Ion	Ratio	Lower	Upper
244	100		
212	8.0	6.2	9.2
122	15.3	11.4	17.2

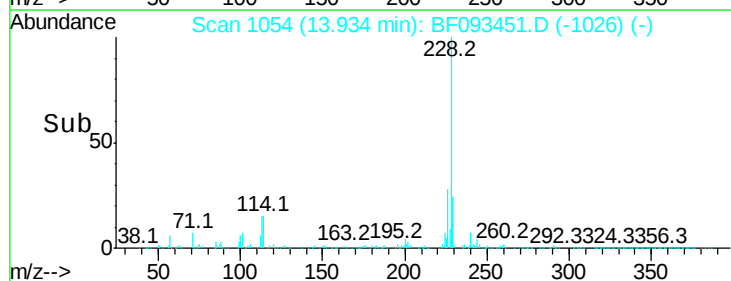
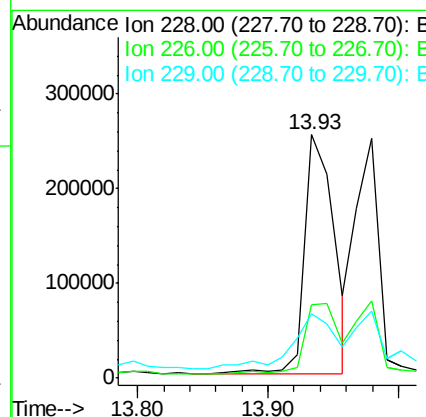
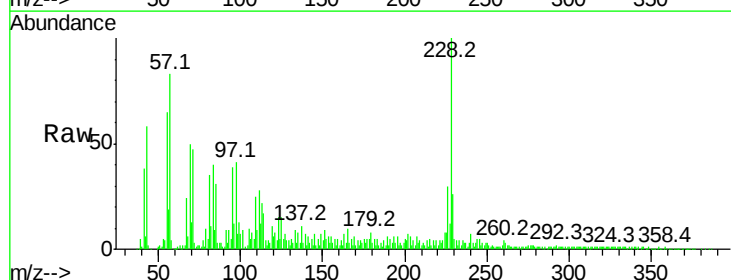
Manual Integrations
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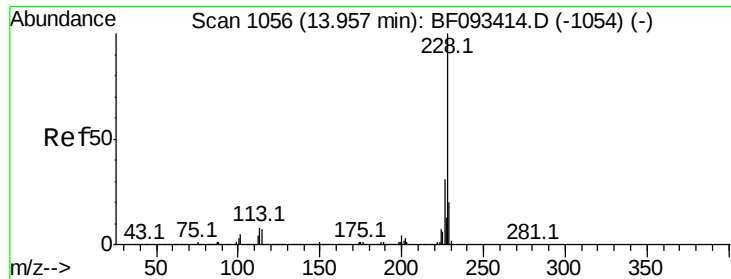
mohammad
 3/10/2017 8:12:39 AM



#80
 Benzo(a)anthracene
 Concen: 23.46 ng
 RT: 13.93 min Scan# 1054
 Delta R.T. 0.02 min
 Lab File: BF093451.D
 Acq: 9 Mar 2017 1:40

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.2	22.4	33.6
229	26.4	16.2	24.4





#82

Chrysene

Concen: 20.32 ng/ml

RT: 13.98 min Scan# 1058

Delta R.T. 0.02 min

Lab File: BF093451.D

Acq: 9 Mar 2017 1:40

Instrument :

BNA_F

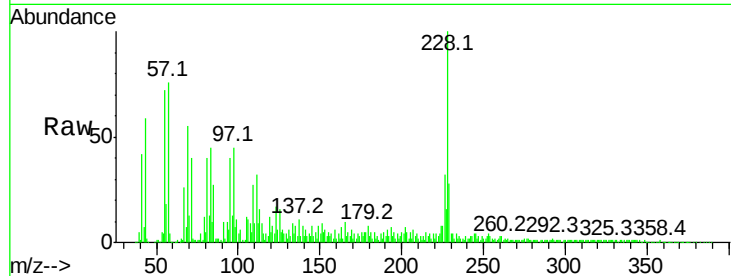
ClientSampleId :

HY-SB415A

Tot Ion	Ratio	Lower	Upper
228	100		
226	32.3	25.4	38.0
229	28.0	16.2	24.2

Manual Integrations
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3/10/2017 8:12:39 AM

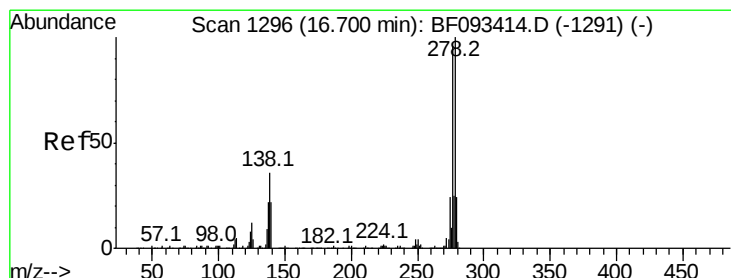
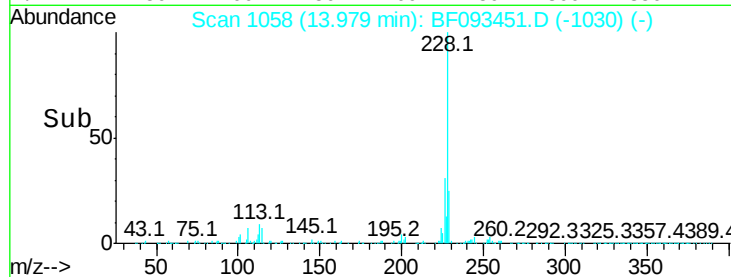
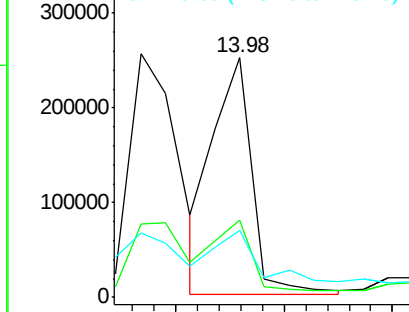


Abundance

Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#85

Indeno(1,2,3-cd)pyrene

Concen: 24.58 ng/ml

RT: 16.77 min Scan# 1302

Delta R.T. 0.07 min

Lab File: BF093451.D

Acq: 9 Mar 2017 1:40

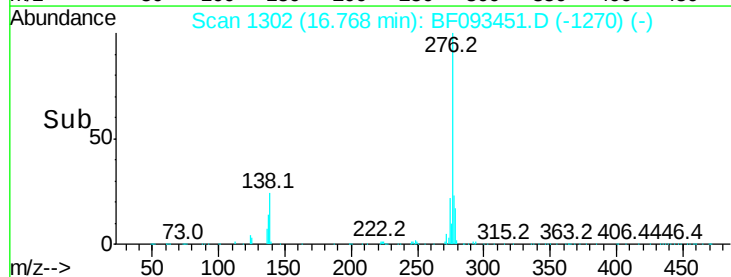
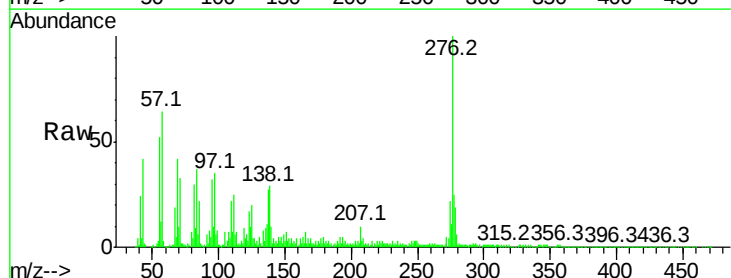
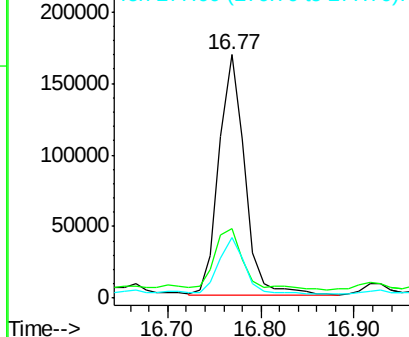
Tgt Ion	Ratio	Lower	Upper
276	100		
138	28.3	21.8	32.6
277	23.3	20.2	30.4

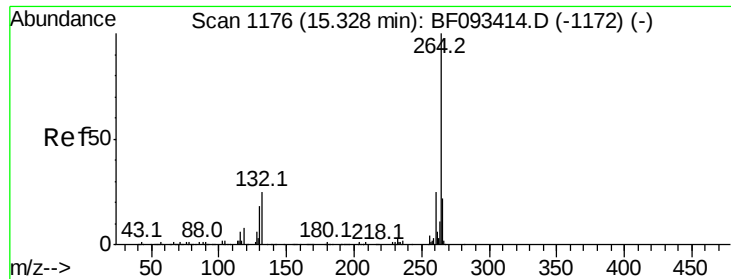
Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





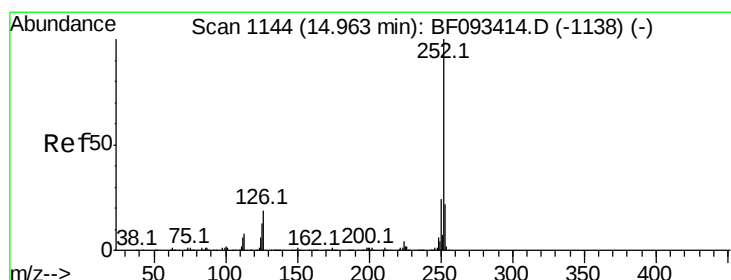
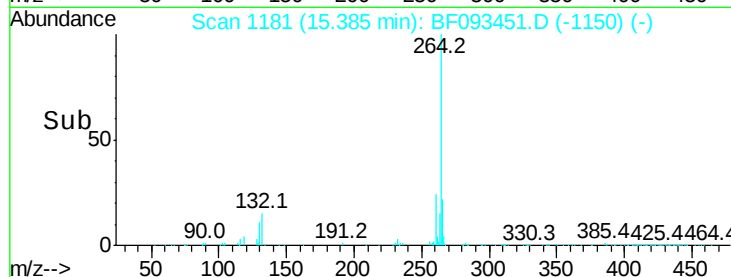
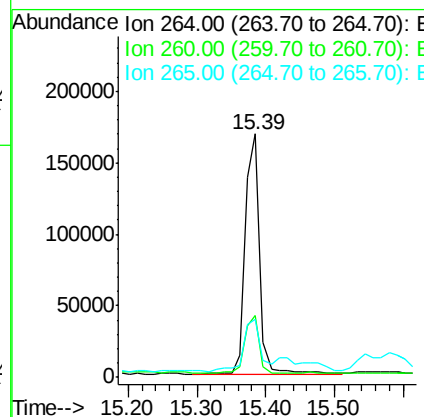
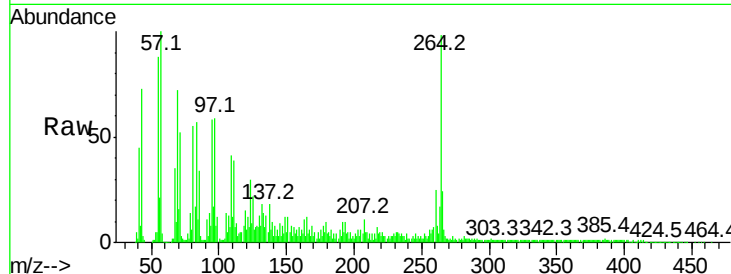
#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.39 min Scan# 1181
Delta R.T. 0.06 min
Lab File: BF093451.D
Acq: 9 Mar 2017 1:40

Instrument :
BNA_F
ClientSampleId :
HY-SB415A

Tot Ion	Ratio	Lower	Upper
264	100		
260	25.5	19.2	28.8
265	24.1	17.4	26.0

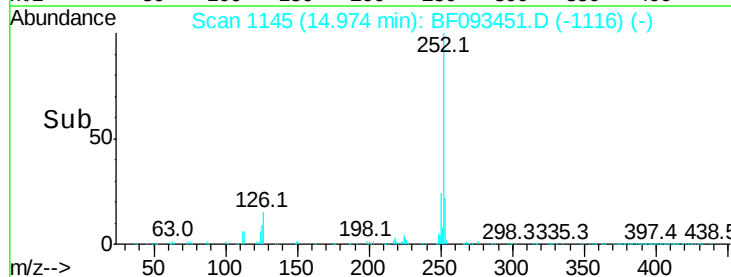
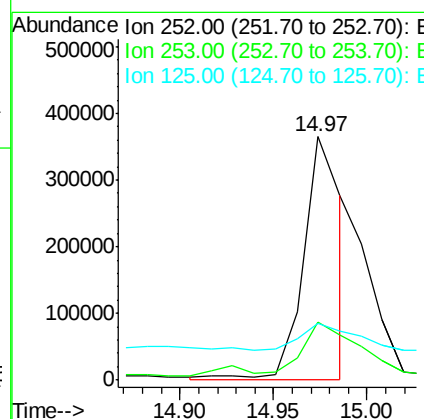
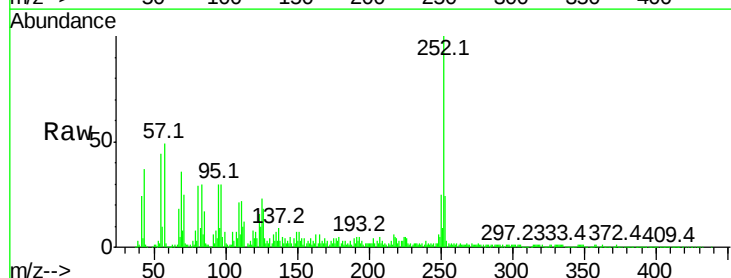
Manual Integrations
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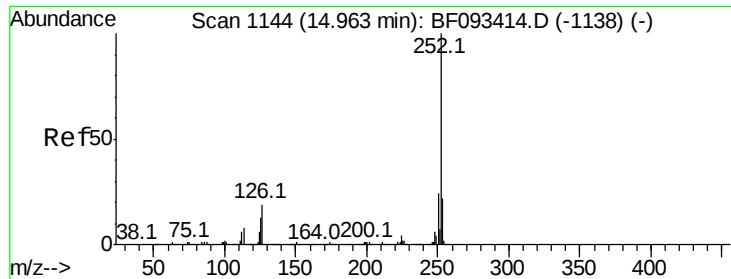
mohammad
3/10/2017 8:12:39 AM



#87
Benzo(b)fluoranthene
Concen: 34.90 ng m
RT: 14.97 min Scan# 1145
Delta R.T. 0.03 min
Lab File: BF093451.D
Acq: 9 Mar 2017 1:40

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.9	18.2	27.4
125	23.3	9.8	14.6





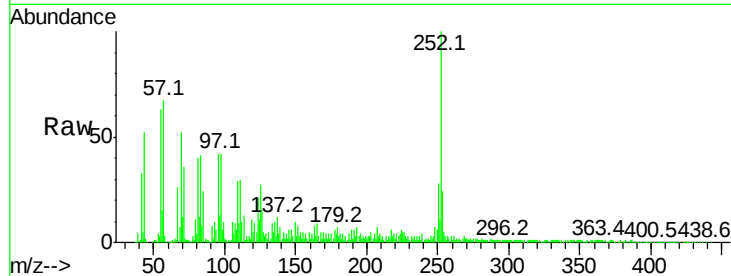
#88
Benzo(k)fluoranthene
Concen: 15.24 ng m
RT: 14.99 min Scan# 1146
Delta R.T. 0.02 min
Lab File: BF093451.D
Acq: 9 Mar 2017 1:40

Instrument :
BNA_F
ClientSampleId :
HY-SB415A

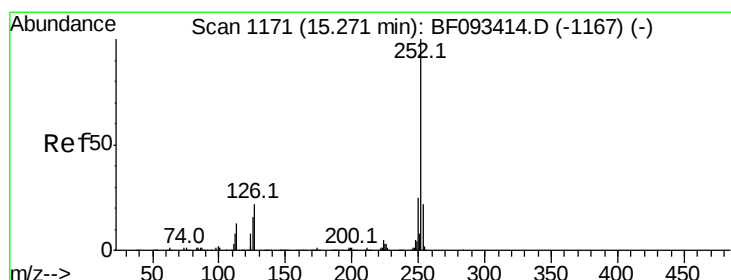
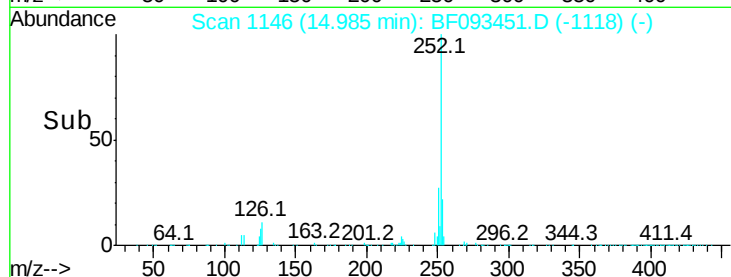
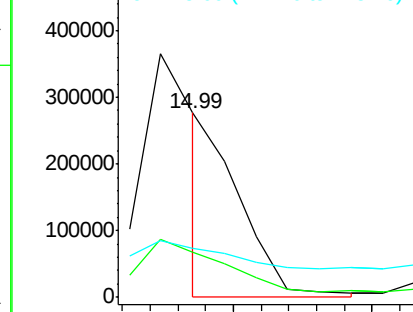
Tot Ion	Ratio	Lower	Upper
252	100		
253	24.2	18.5	27.7
125	27.0	8.9	13.3

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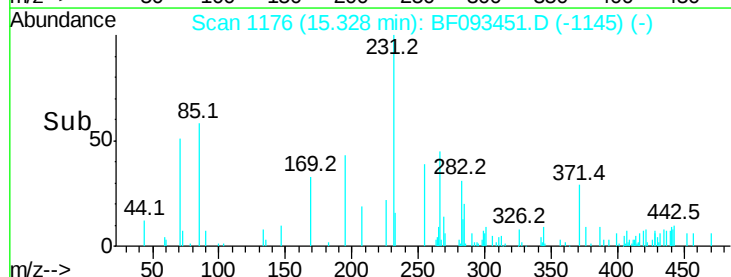
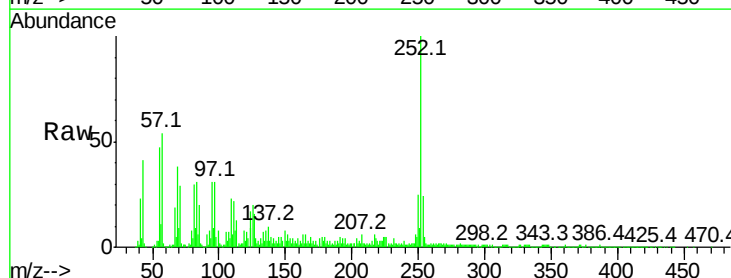
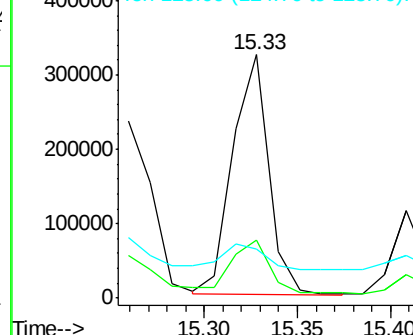
Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

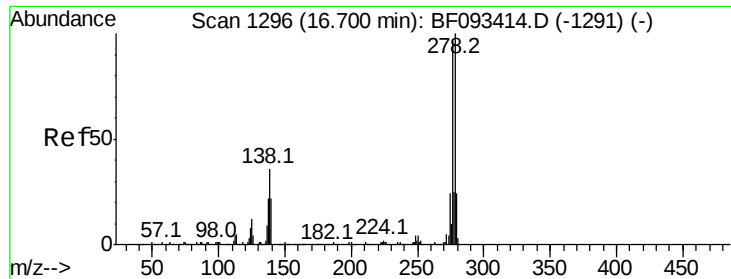


#89
Benzo(a)pyrene
Concen: 31.62 ng
RT: 15.33 min Scan# 1176
Delta R.T. 0.06 min
Lab File: BF093451.D
Acq: 9 Mar 2017 1:40

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.1	18.2	27.2
125	20.4	10.0	15.0

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





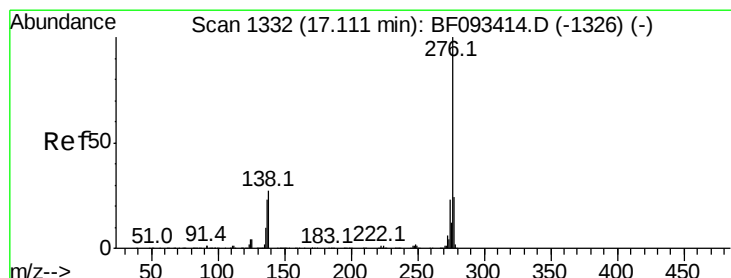
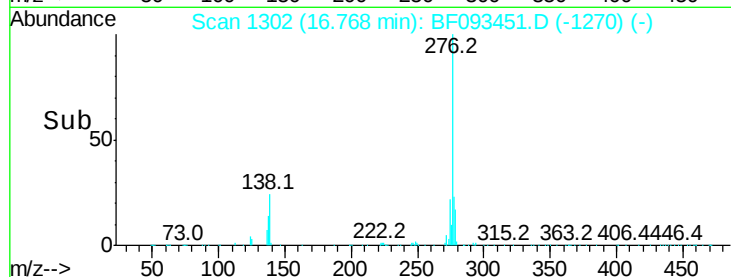
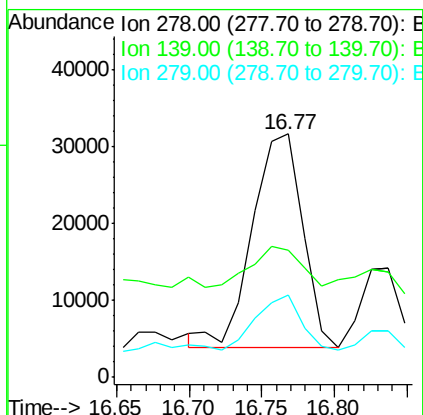
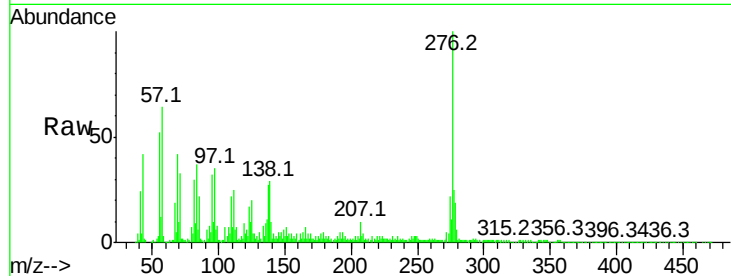
#90
Dibenzo(a,h)anthracene
Concen: 5.88 ng
RT: 16.77 min Scan# 1302
Delta R.T. 0.07 min
Lab File: BF093451.D
Acq: 9 Mar 2017 1:40

Instrument :
BNA_F
ClientSampleId :
HY-SB415A

Tot Ion	Ratio	Lower	Upper
278	100		
139	52.2	14.8	22.2#
279	33.9	19.8	29.6#

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#91
Benzo(g,h,i)perylene
Concen: 28.37 ng
RT: 17.19 min Scan# 1339
Delta R.T. 0.08 min
Lab File: BF093451.D
Acq: 9 Mar 2017 1:40

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.6	19.2	28.8
138	29.5	16.0	24.0#

