

Data Path : Z:\HPCHEM1\BNA F\DATA\BF030817\
 Data File : BF093447.D
 Acq On : 8 Mar 2017 23:50
 Operator : SJ/MA
 Sample : I2106-04
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 HY-SB413A

Manual Integrations
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Quant Time: Mar 09 00:50:30 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	153641	20.00	ng	0.00
21) Naphthalene-d8	8.06	136	532585	20.00	ng	0.00
38) Acenaphthene-d10	9.81	164	221799	20.00	ng	0.00
63) Phenanthrene-d10	11.29	188	324802	20.00	ng	0.01
75) Chrysene-d12	14.00	240	64646	20.00	ng	0.08
86) Perylene-d12	15.51	264	52504	20.00	ng	0.18
System Monitoring Compounds						
5) 2-Fluorophenol	5.35	112	760922	82.43	ng	0.00
7) Phenol-d6	6.42	99	958129	82.31	ng	0.01
23) Nitrobenzene-d5	7.34	82	572069	59.60	ng	0.00
41) 2,4,6-Tribromophenol	10.61	330	115939	80.23	ng	0.01
44) 2-Fluorobiphenyl	9.13	172	826879	69.34	ng	0.00
78) Terphenyl-d14	12.92	244	249193	100.22	ng	0.05
Target Compounds						Qvalue
10) Phenol	6.44	94	69113	4.84	ng	82
31) Naphthalene	8.08	128	955286	35.79	ng	99
37) 2-Methylnaphthalene	8.77	142	368052	21.67	ng	99
45) 1,1'-Biphenyl	9.24	154	115515	7.15	ng	99
48) Acenaphthylene	9.67	152	582021	28.53	ng	100
49) Dimethylphthalate	9.53	163	114544	7.79	ng	99
51) Acenaphthene	9.84	154	714401	59.23	ng	96
54) Dibenzofuran	10.01	168	834940	55.30	ng	97
57) Fluorene	10.36	166	1117950m	87.39	ng	
70) Phenanthrene	11.33	178	2934360	158.27	ng	99
71) Anthracene	11.39	178	1706344	90.99	ng	99
72) Carbazole	11.55	167	116014	6.58	ng	# 60
74) Fluoranthene	12.55	202	3121238	174.29	ng	95
77) Pyrene	12.78	202	2387177m	507.74	ng	
80) Benzo(a)anthracene	14.00	228	434664	113.86	ng	# 82
82) Chrysene	14.04	228	475294m	134.56	ng	
85) Indeno(1,2,3-cd)pyrene	16.96	276	191275	64.69	ng	98
87) Benzo(b)fluoranthene	15.09	252	391620	122.47	ng	# 48
91) Benzo(a,h,i)perylene	17.40	276	197585	79.62	ng	# 73

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

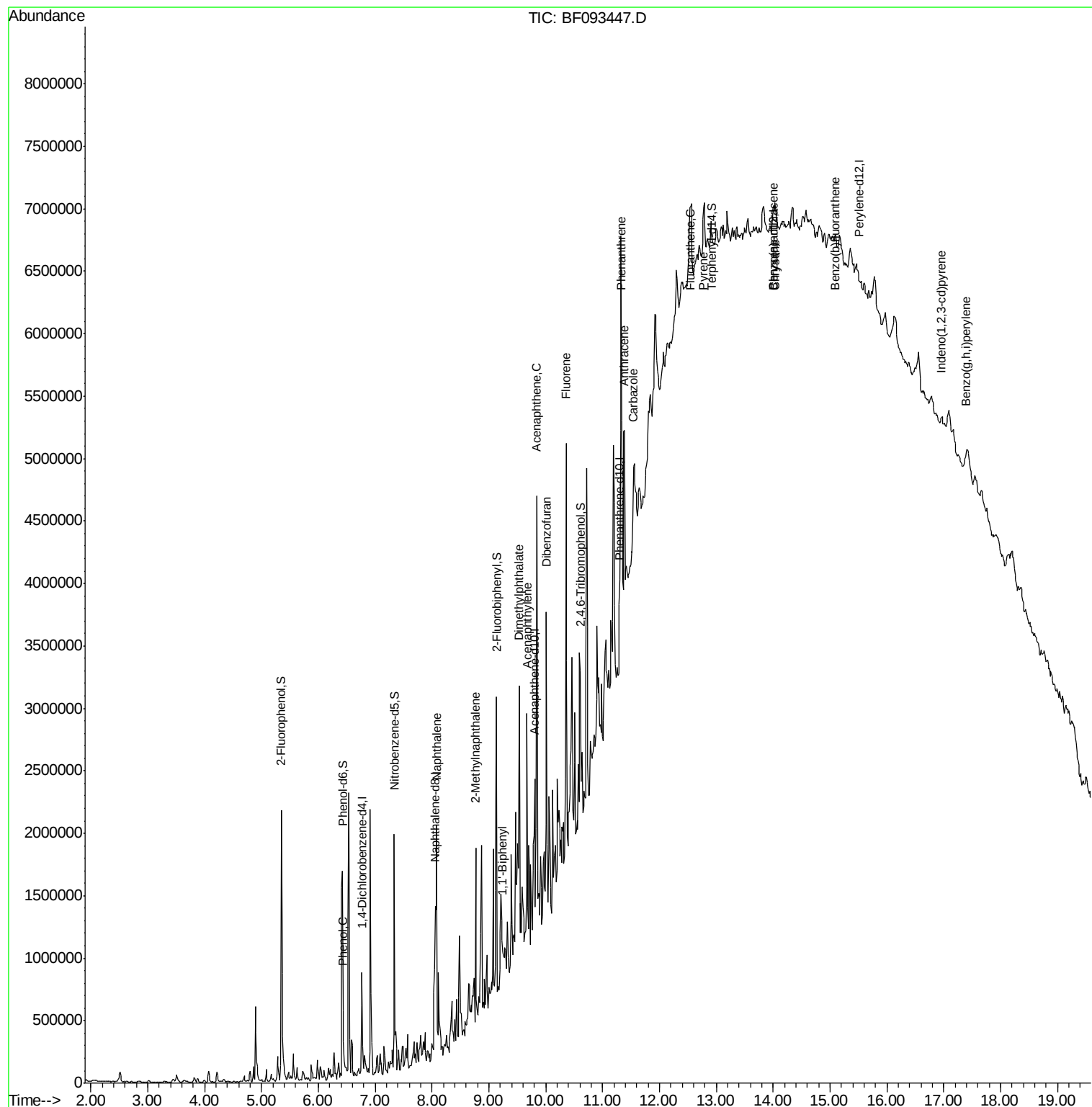
Data Path : Z:\HPCHEM1\BNA F\DATA\BF030817\
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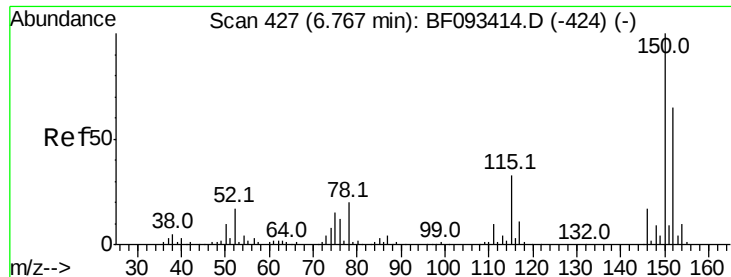
Instrument :
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#1

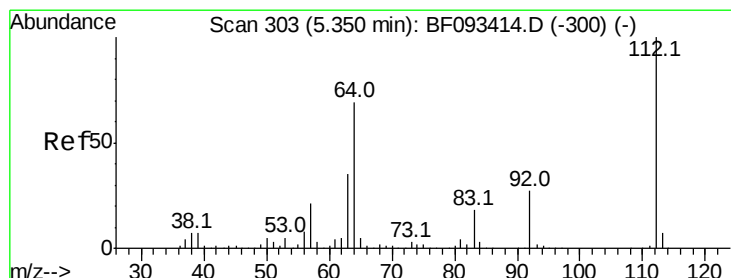
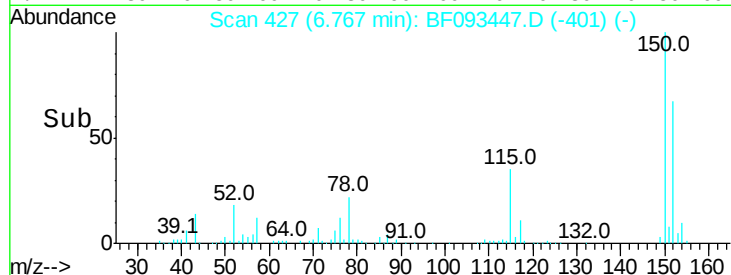
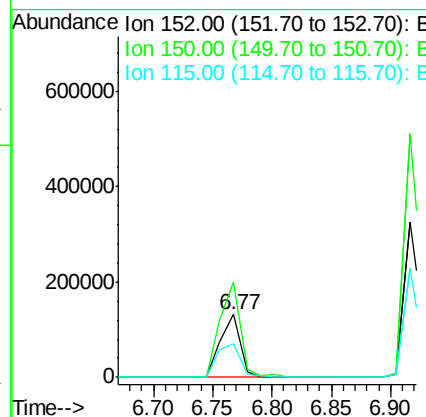
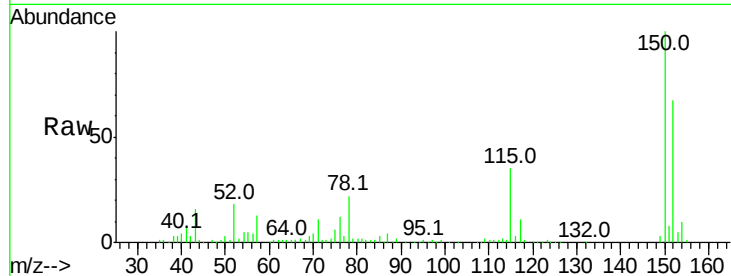
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.77 min Scan# 427
Delta R.T. 0.00 min
Lab File: BF093447.D
Acq: 8 Mar 2017 23:50

Instrument :
BNA_F
ClientSampleId :
HY-SB413A

Tot Ion	Ratio	Lower	Upper
152	100		
150	150.3	124.9	187.3
115	52.6	46.0	69.0

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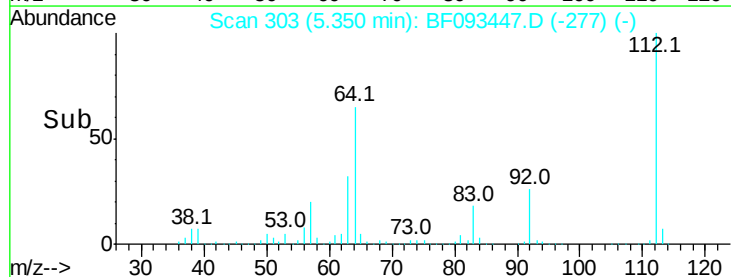
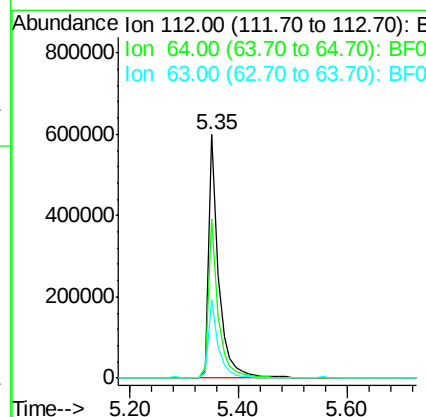
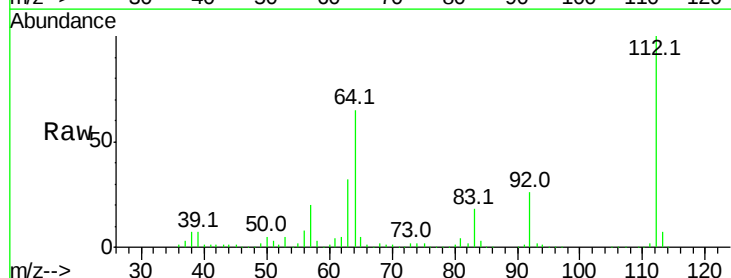
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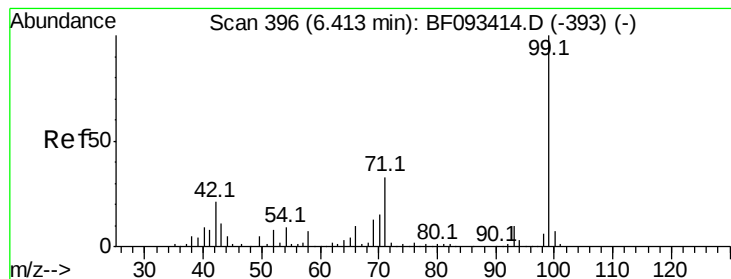


#5

2-Fluorophenol
Concen: 82.43 ng
RT: 5.35 min Scan# 303
Delta R.T. 0.00 min
Lab File: BF093447.D
Acq: 8 Mar 2017 23:50

Tgt Ion	Ratio	Lower	Upper
112	100		
64	65.2	46.1	69.1
63	32.2	23.8	35.6





#7

Phenol-d6

Concen: 82.31 ng

RT: 6.42 min Scan# 397

Delta R.T. 0.01 min

Lab File: BF093447.D

Acq: 8 Mar 2017 23:50

Instrument :

BNA_F

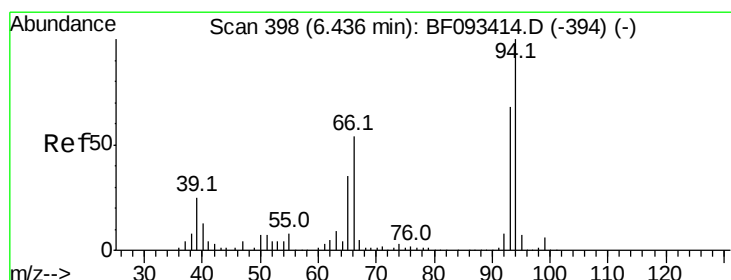
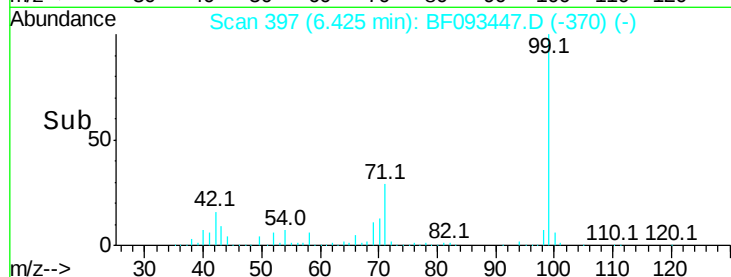
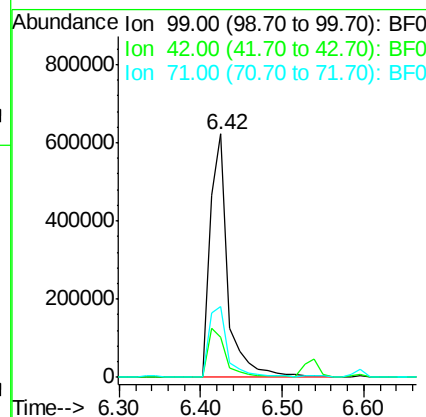
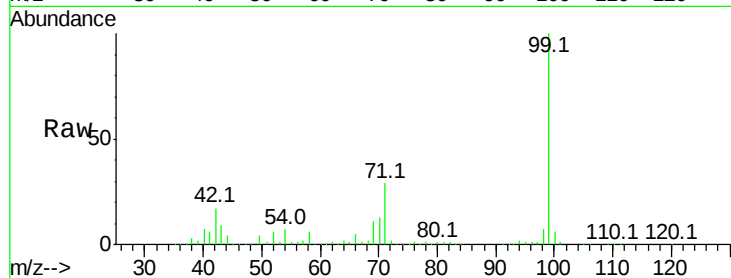
ClientSampleId :

HY-SB413A

Tot Ion:	99	Resp:	958129
Ion	Ratio	Lower	Upper
99	100		
42	16.6	15.6	23.4
71	28.9	27.5	41.3

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#10

Phenol

Concen: 4.84 ng

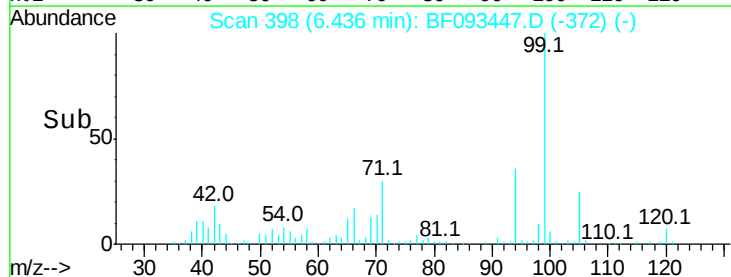
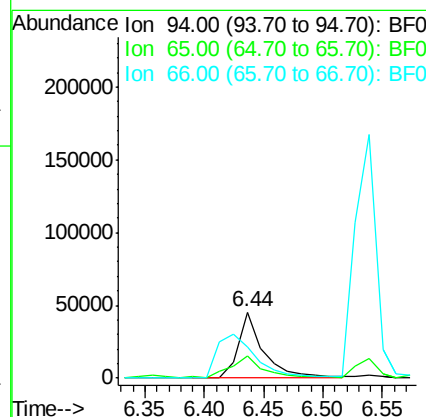
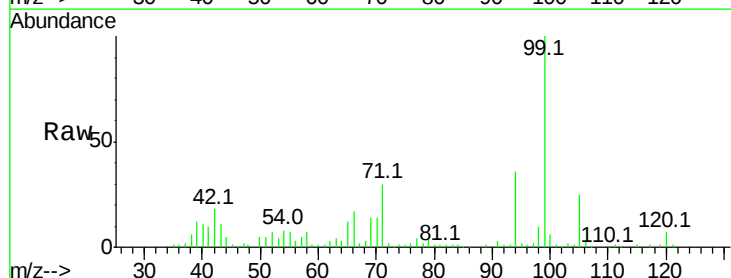
RT: 6.44 min Scan# 398

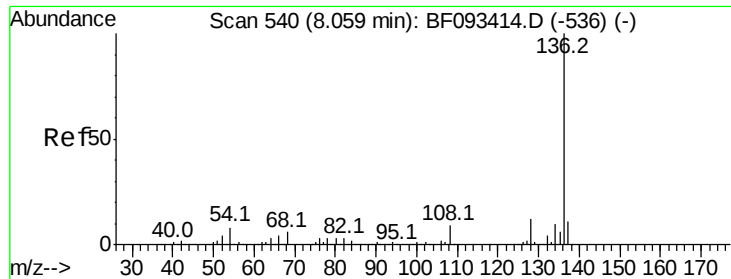
Delta R.T. 0.00 min

Lab File: BF093447.D

Acq: 8 Mar 2017 23:50

Tgt Ion:	94	Resp:	69113
Ion	Ratio	Lower	Upper
94	100		
65	33.9	21.4	61.4
66	46.3	44.0	84.0





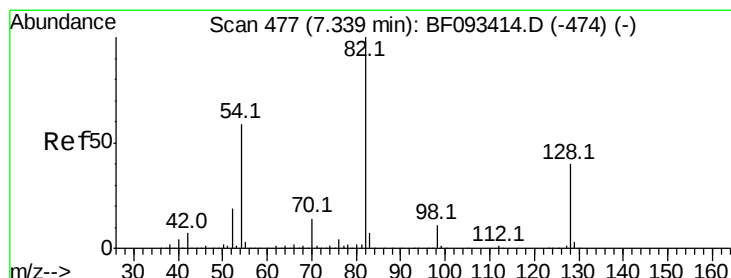
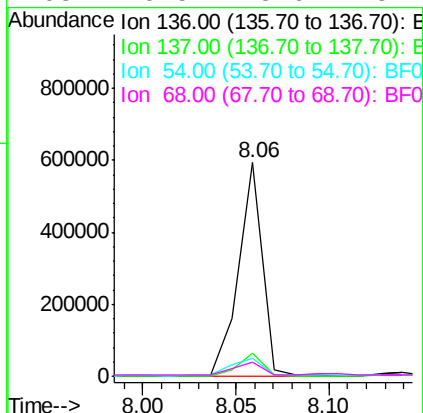
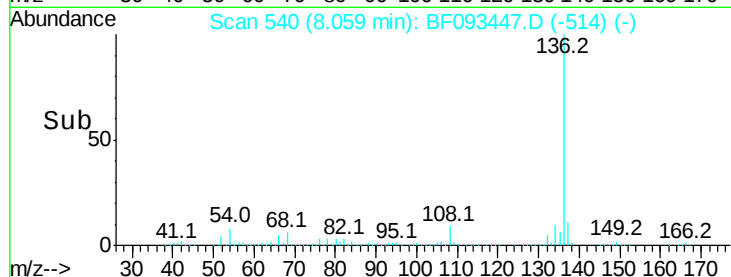
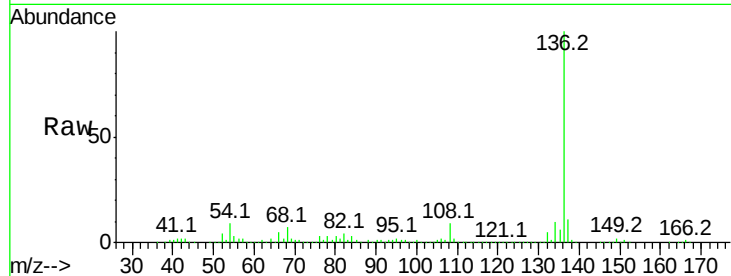
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.06 min Scan# 540
Delta R.T. 0.00 min
Lab File: BF093447.D
Acq: 8 Mar 2017 23:50

Instrument :
BNA_F
ClientSampleId :
HY-SB413A

Tot Ion	Ratio	Resp Lower	Upper
136	100		
137	11.0	8.4	12.6
54	8.5	4.5	6.7#
68	6.5	3.6	5.4#

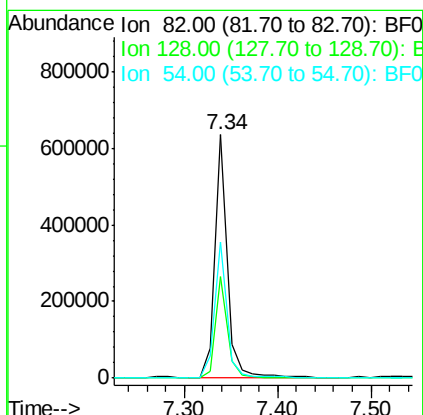
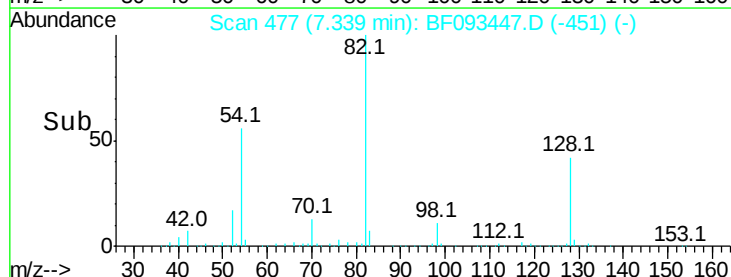
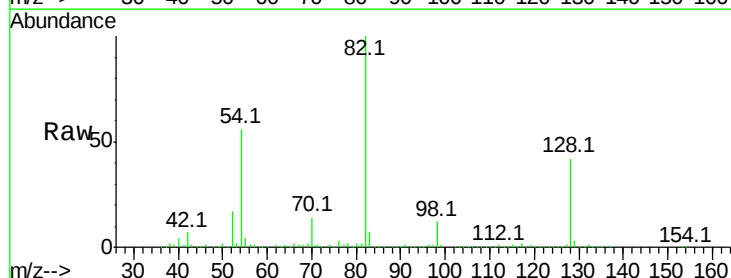
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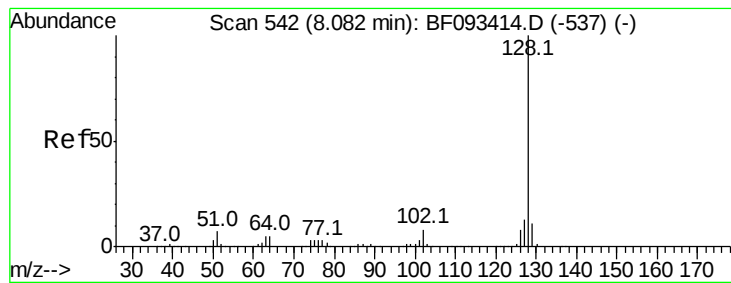
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#23
Nitrobenzene-d5
Concen: 59.60 ng
RT: 7.34 min Scan# 477
Delta R.T. 0.00 min
Lab File: BF093447.D
Acq: 8 Mar 2017 23:50

Tgt Ion	Ratio	Resp Lower	Upper
82	100		
128	41.7	34.6	52.0
54	56.0	39.5	59.3





#31

Naphthalene

Concen: 35.79 ng

RT: 8.08 min Scan# 542

Delta R.T. 0.00 min

Lab File: BF093447.D

Acq: 8 Mar 2017 23:50

Instrument :

BNA_F

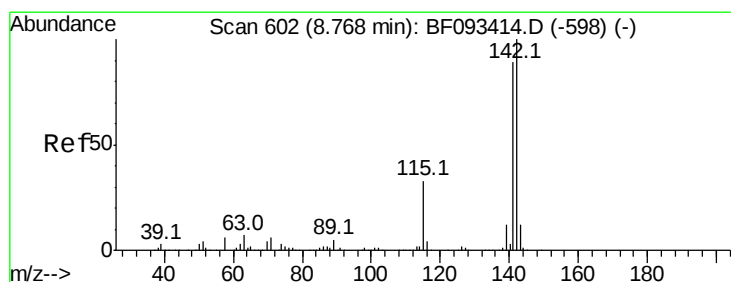
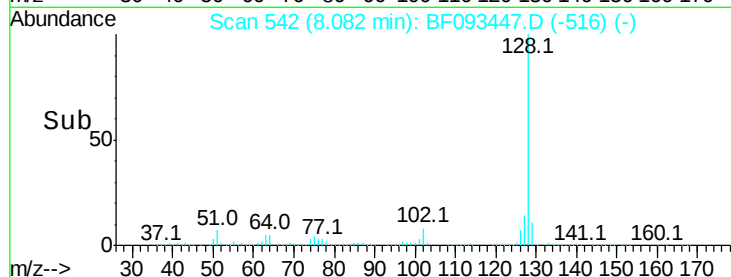
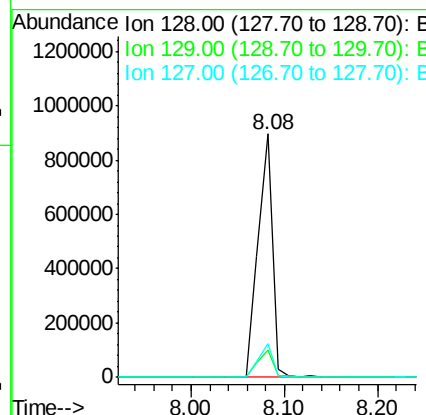
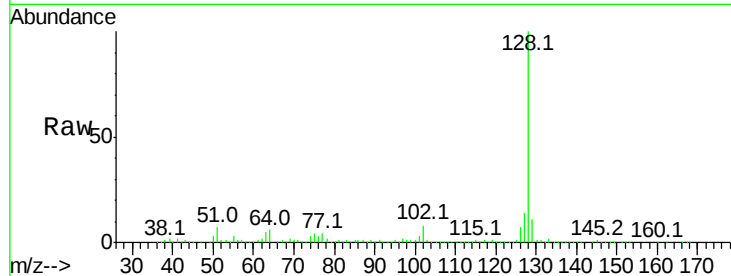
ClientSampleId :

HY-SB413A

Tot Ion:128	Resp:	955286
Ion Ratio	Lower	Upper
128 100		
129 11.1	9.5	14.3
127 13.7	10.8	16.2

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#37

2-Methylnaphthalene

Concen: 21.67 ng

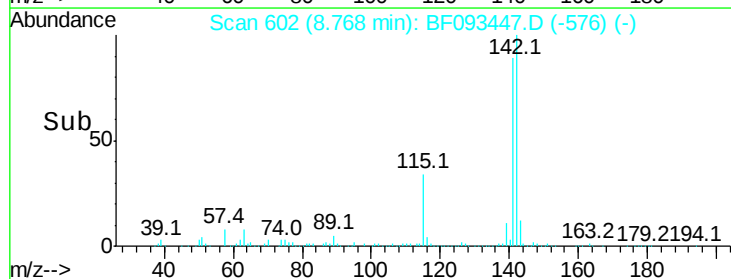
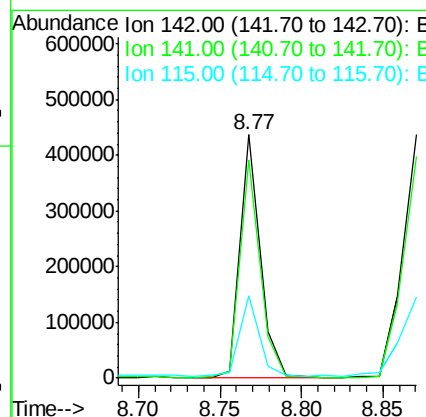
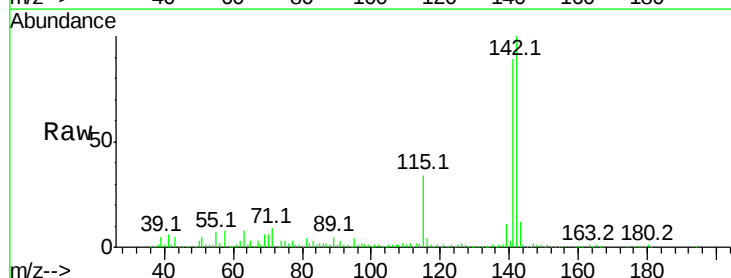
RT: 8.77 min Scan# 602

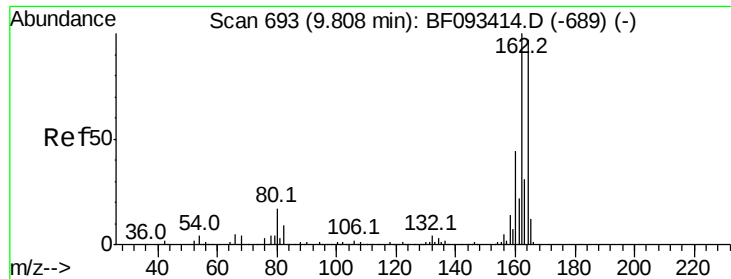
Delta R.T. 0.00 min

Lab File: BF093447.D

Acq: 8 Mar 2017 23:50

Tgt Ion:142	Resp:	368052
Ion Ratio	Lower	Upper
142 100		
141 89.4	71.0	106.6
115 33.9	28.3	42.5





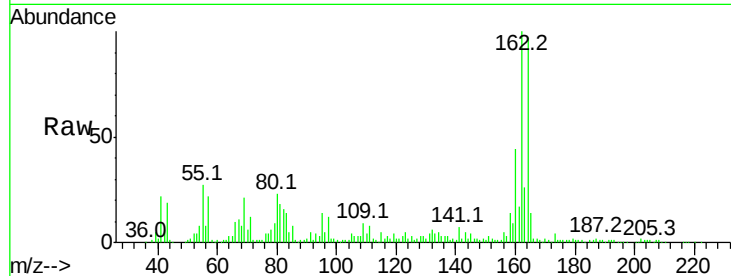
#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.81 min Scan# 693
Delta R.T. 0.00 min
Lab File: BF093447.D
Acq: 8 Mar 2017 23:50

Instrument :
BNA_F
ClientSampleId :
HY-SB413A

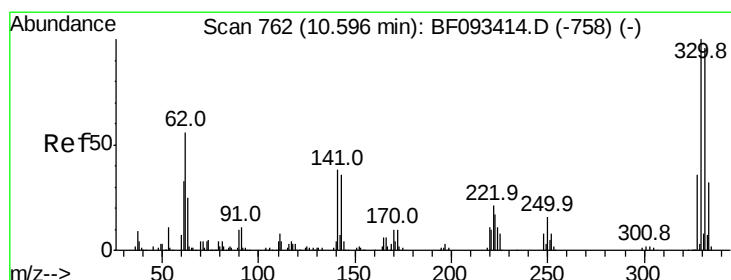
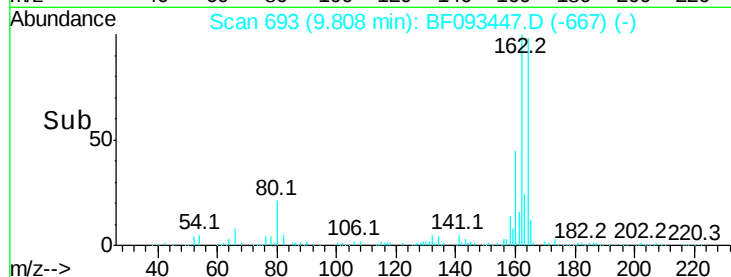
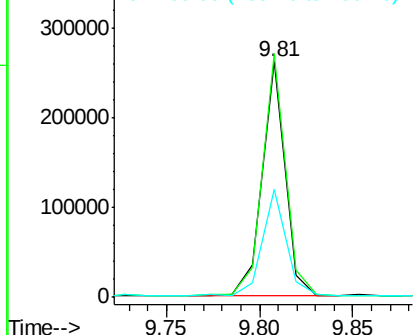
Tot Ion	Ratio	Lower	Upper
164	100		
162	103.4	80.2	120.2
160	45.6	36.9	55.3

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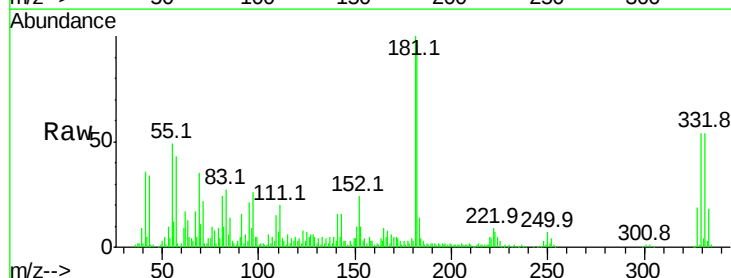


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

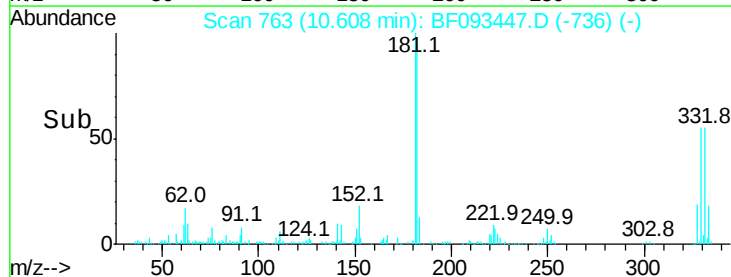
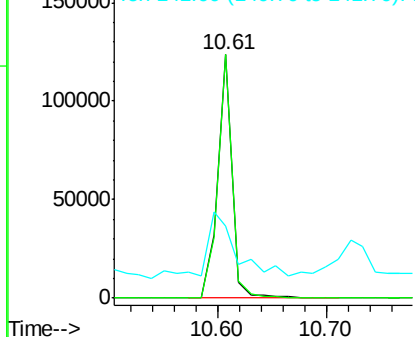


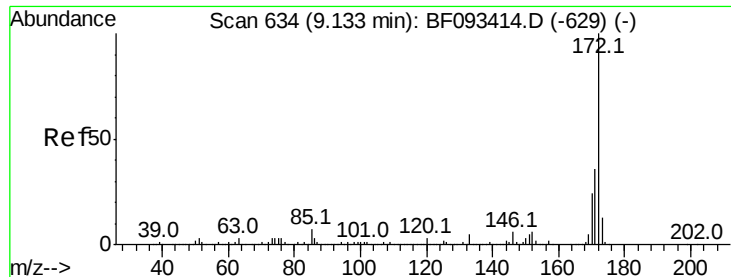
#41
2,4,6-Tribromophenol
Concen: 80.23 ng
RT: 10.61 min Scan# 763
Delta R.T. 0.01 min
Lab File: BF093447.D
Acq: 8 Mar 2017 23:50

Tgt Ion	Ratio	Lower	Upper
330	100		
332	99.6	77.4	116.2
141	61.4	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: 69.34 ng

RT: 9.13 min Scan# 634

Delta R.T. 0.00 min

Lab File: BF093447.D

Acq: 8 Mar 2017 23:50

Instrument :

BNA_F

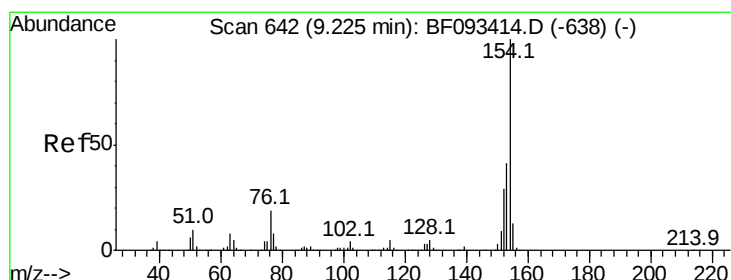
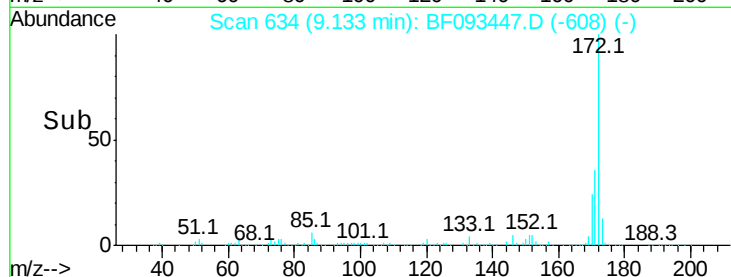
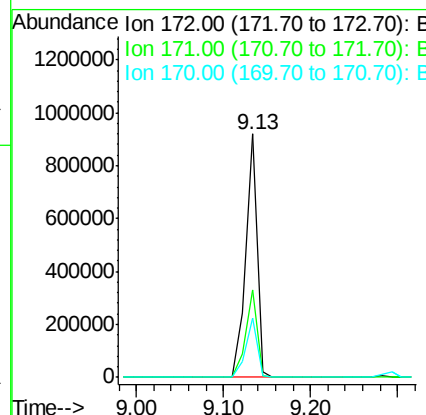
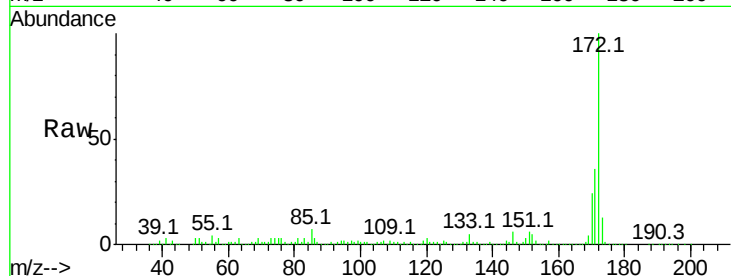
ClientSampleId :

HY-SB413A

Tot Ion:	172	Resp:	826879
Ion Ratio	Lower	Upper	
172	100		
171	35.9	29.4	44.0
170	24.3	20.2	30.4

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#45

1,1'-Biphenyl

Concen: 7.15 ng

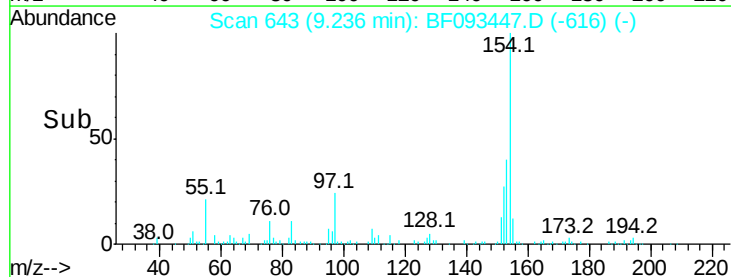
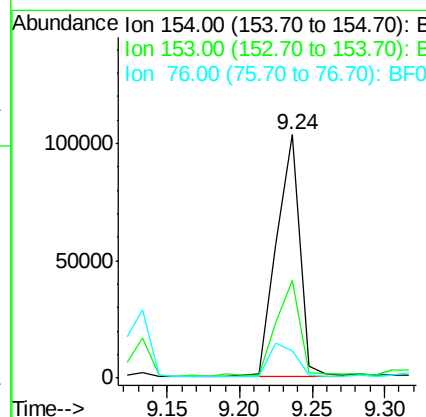
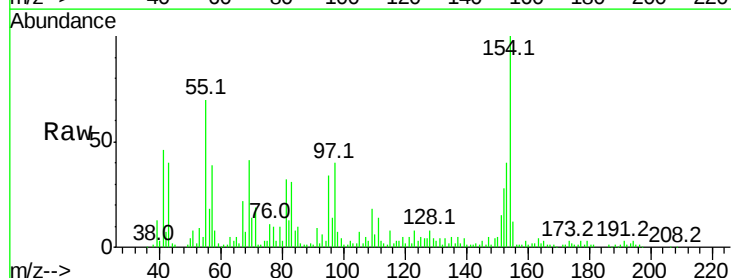
RT: 9.24 min Scan# 643

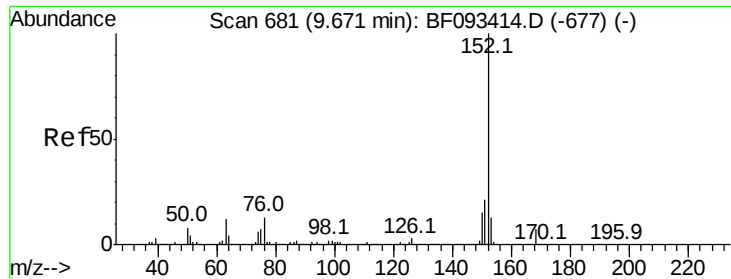
Delta R.T. 0.01 min

Lab File: BF093447.D

Acq: 8 Mar 2017 23:50

Tgt Ion:	154	Resp:	115515
Ion Ratio	Lower	Upper	
154	100		
153	40.3	20.9	60.9
76	11.4	0.0	30.5





#48

Acenaphthylene

Concen: 28.53 ng

RT: 9.67 min Scan# 681

Delta R.T. 0.00 min

Lab File: BF093447.D

Acq: 8 Mar 2017 23:50

Instrument :

BNA_F

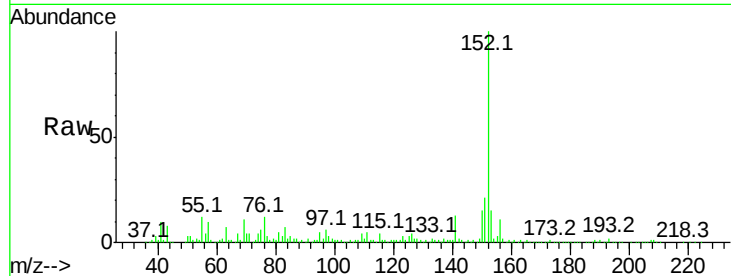
ClientSampleId :

HY-SB413A

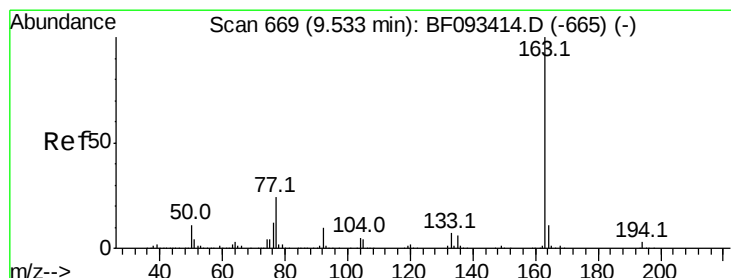
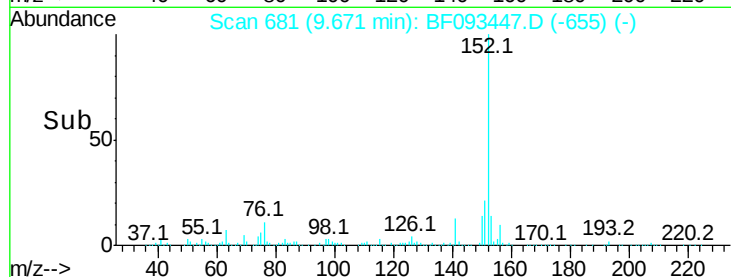
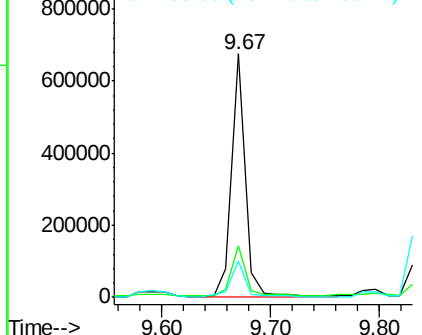
Tot Ion	Ratio	Lower	Upper
152	100		
151	21.2	16.9	25.3
153	14.6	11.4	17.2

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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: 7.79 ng

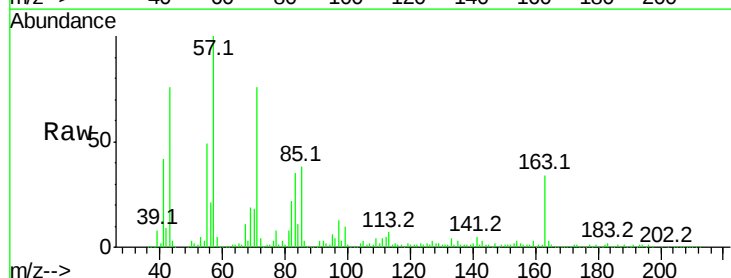
RT: 9.53 min Scan# 669

Delta R.T. 0.00 min

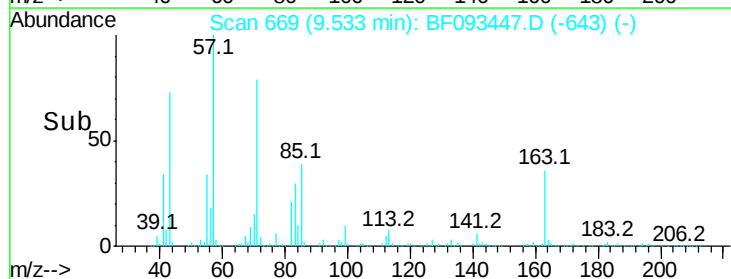
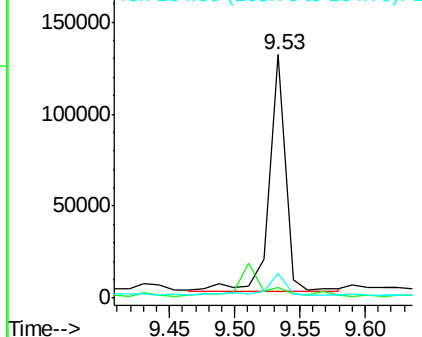
Lab File: BF093447.D

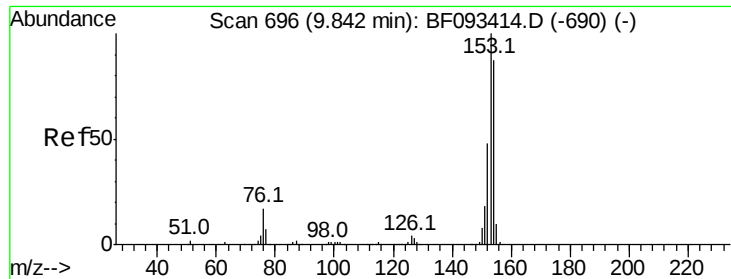
Acq: 8 Mar 2017 23:50

Tgt Ion	Ratio	Lower	Upper
163	100		
194	4.3	3.0	4.4
164	10.3	8.0	12.0



Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E





#51

Acenaphthene

Concen: 59.23 ng

RT: 9.84 min Scan# 696

Delta R.T. 0.00 min

Lab File: BF093447.D

Acq: 8 Mar 2017 23:50

Instrument :

BNA_F

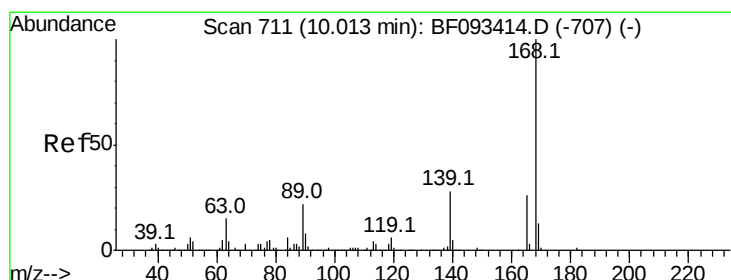
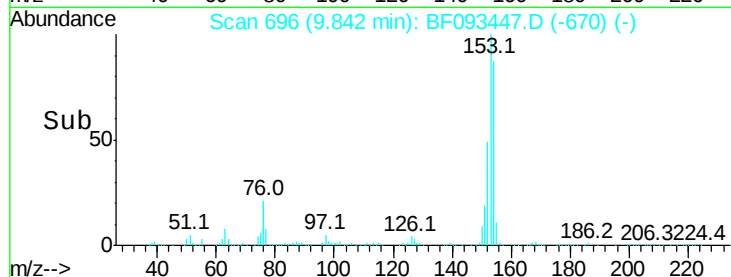
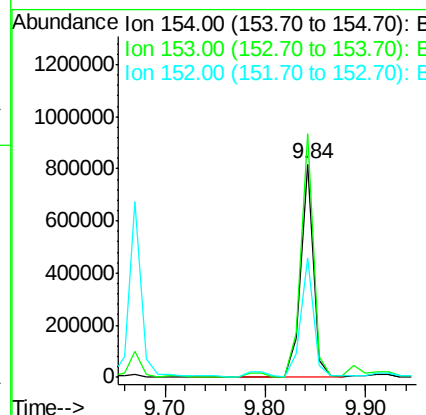
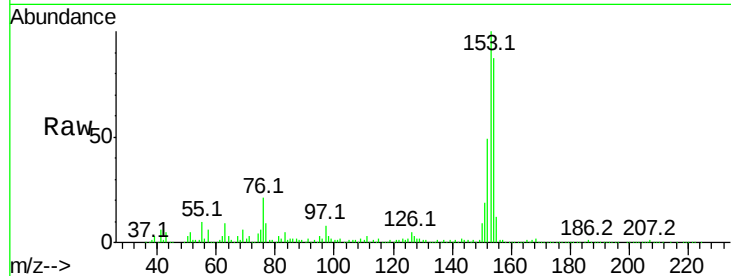
ClientSampleId :

HY-SB413A

Tot Ion:	154	Resp:	714401
Ion	Ratio	Lower	Upper
154	100		
153	114.3	88.6	133.0
152	55.9	41.6	62.4

Manual Integrations
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#54

Dibenzofuran

Concen: 55.30 ng

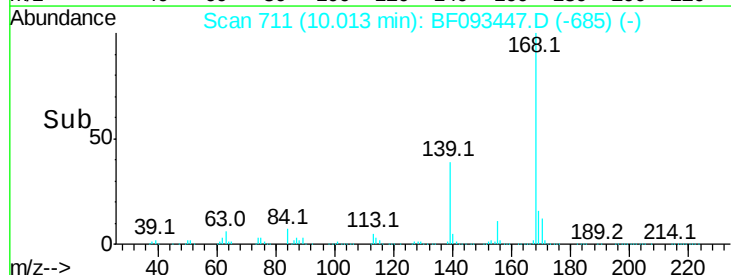
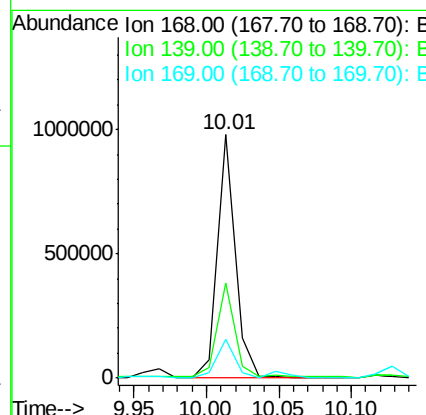
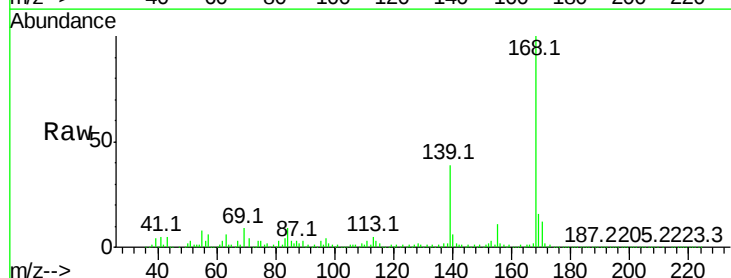
RT: 10.01 min Scan# 711

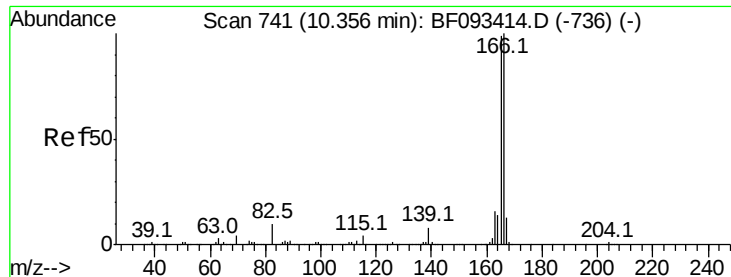
Delta R.T. 0.00 min

Lab File: BF093447.D

Acq: 8 Mar 2017 23:50

Tgt Ion:	168	Resp:	834940
Ion	Ratio	Lower	Upper
168	100		
139	39.2	32.6	49.0
169	15.8	11.3	16.9





#57

Fluorene

Concen: 87.39 ng/mL

RT: 10.36 min Scan# 741

Delta R.T. 0.00 min

Lab File: BF093447.D

Acq: 8 Mar 2017 23:50

Instrument :

BNA_F

ClientSampled :

HY-SB413A

Tot Ion:166 Resp: 1117950

Ion Ratio Lower Upper

166 100

165 98.7 77.8 116.8

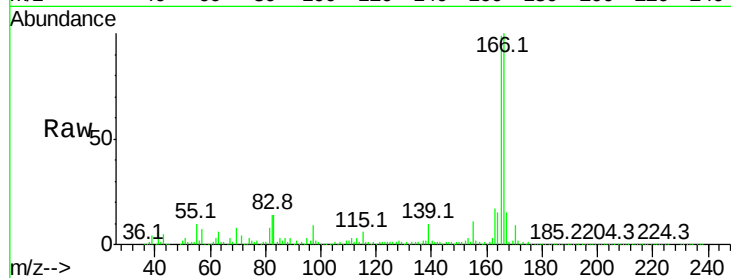
167 14.8 10.8 16.2

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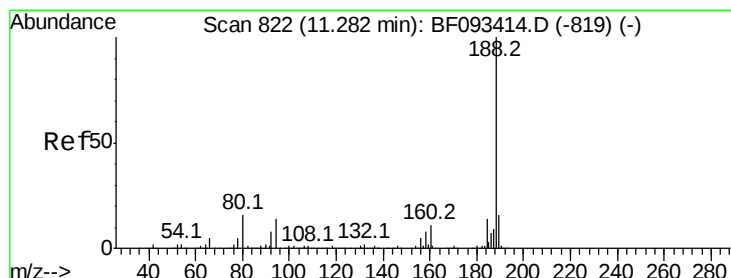
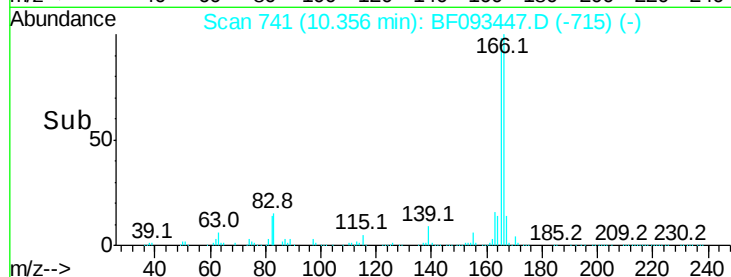
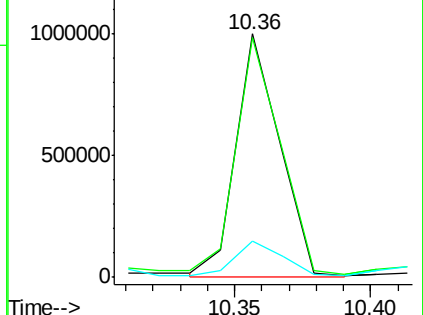
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Abundance Ion 166.00 (165.70 to 166.70): E

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/mL

RT: 11.29 min Scan# 823

Delta R.T. 0.01 min

Lab File: BF093447.D

Acq: 8 Mar 2017 23:50

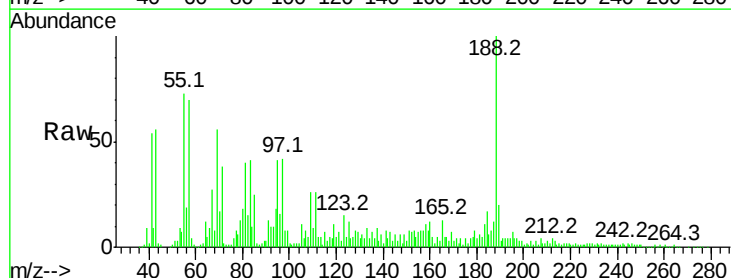
Tgt Ion:188 Resp: 324802

Ion Ratio Lower Upper

188 100

94 18.1 10.0 15.0#

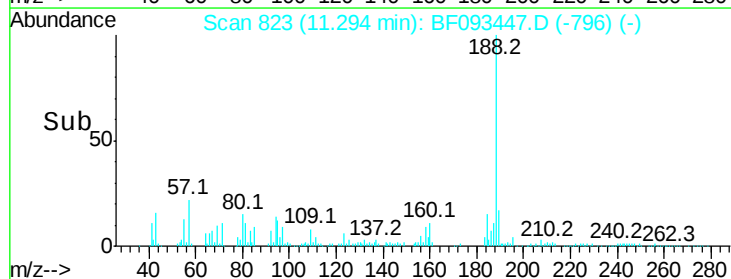
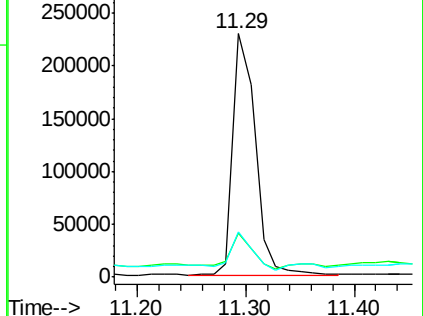
80 18.4 11.2 16.8#

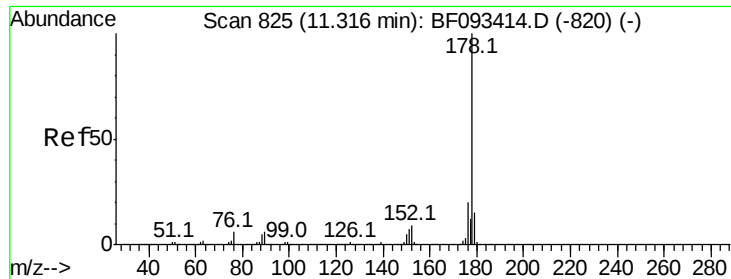


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0





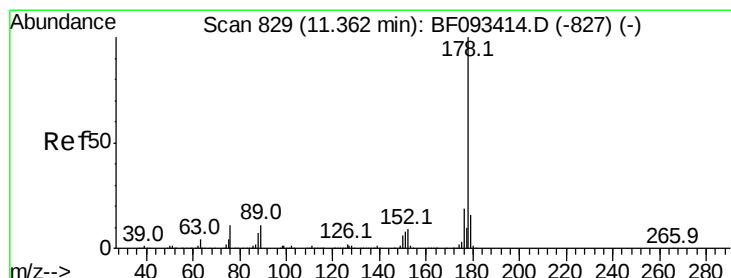
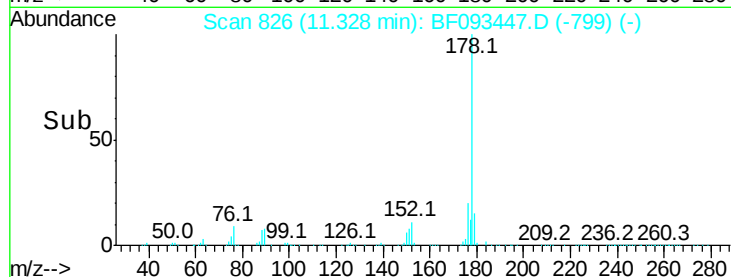
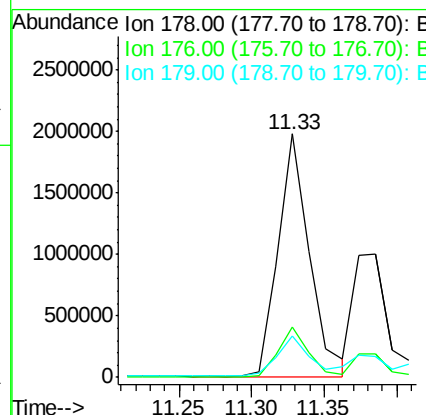
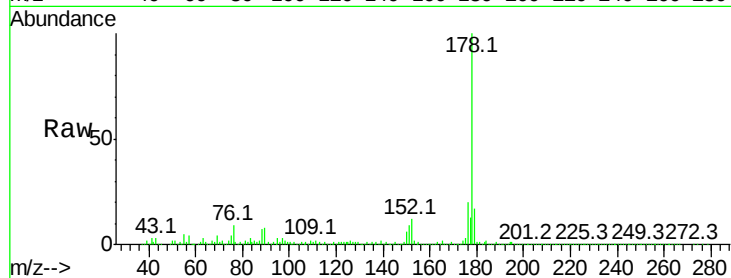
#70
Phenanthrene
Concen: 158.27 ng
RT: 11.33 min Scan# 826
Delta R.T. 0.01 min
Lab File: BF093447.D
Acq: 8 Mar 2017 23:50

Instrument :
BNA_F
ClientSampleId :
HY-SB413A

Tot Ion:178 Resp: 2934360
Ion Ratio Lower Upper
178 100
176 20.5 16.6 25.0
179 16.8 12.8 19.2

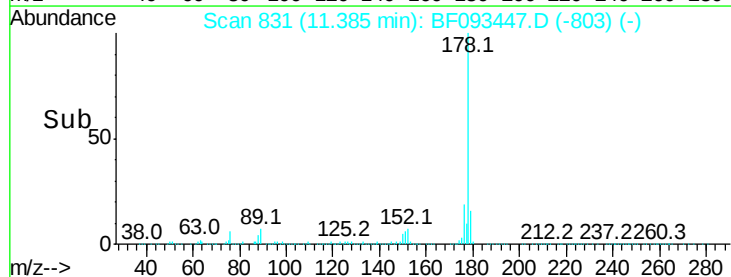
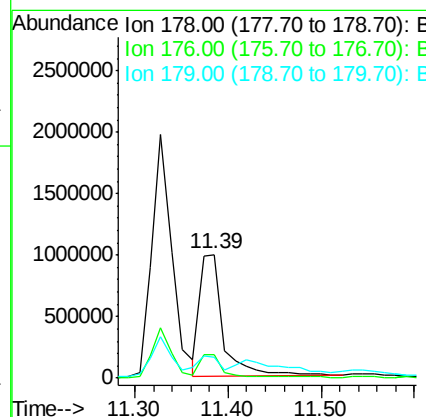
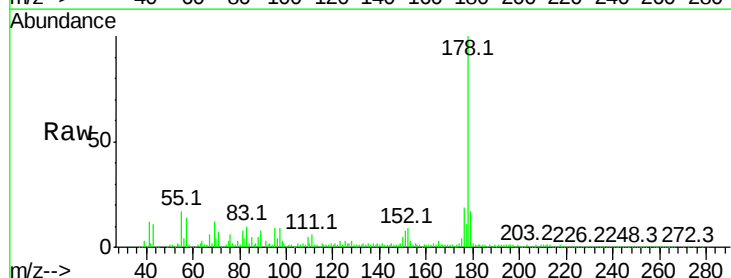
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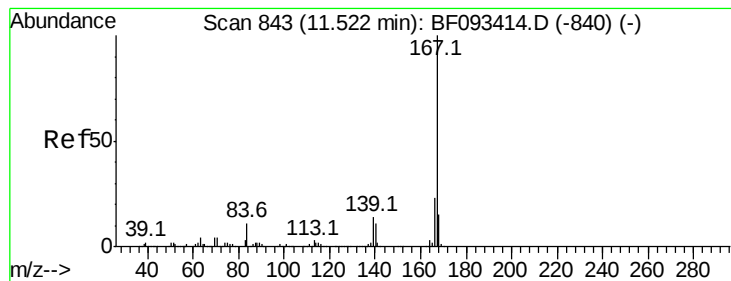
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#71
Anthracene
Concen: 90.99 ng
RT: 11.39 min Scan# 831
Delta R.T. 0.02 min
Lab File: BF093447.D
Acq: 8 Mar 2017 23:50

Tgt Ion:178 Resp: 1706344
Ion Ratio Lower Upper
178 100
176 19.4 15.9 23.9
179 17.2 13.2 19.8





#72

Carbazole

Concen: 6.58 ng

RT: 11.55 min Scan# 845

Delta R.T. 0.02 min

Lab File: BF093447.D

Acq: 8 Mar 2017 23:50

Instrument :

BNA_F

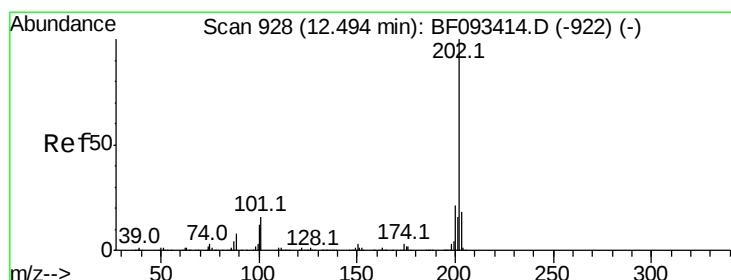
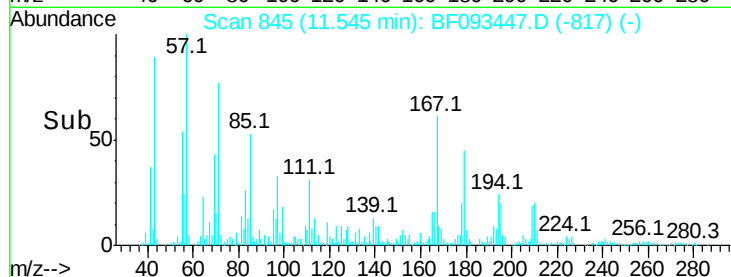
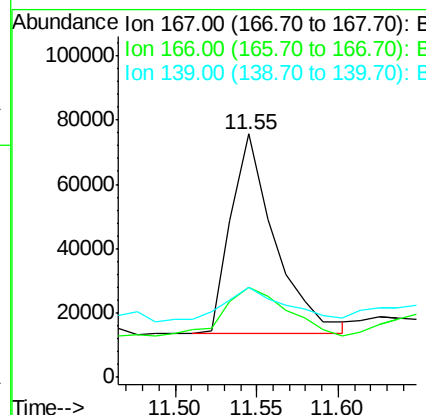
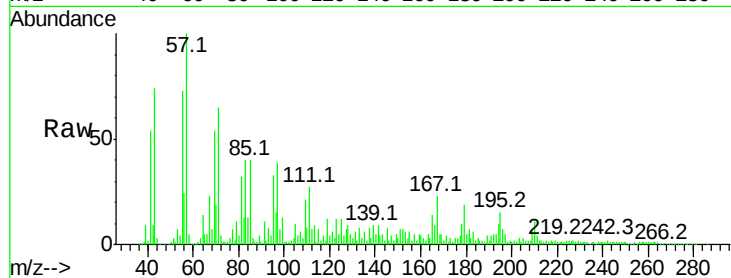
ClientSampleId :

HY-SB413A

Tot Ion	Ratio	Lower	Upper
167	100		
166	37.2	18.2	27.2#
139	37.1	11.4	17.2#

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#74

Fluoranthene

Concen: 174.29 ng

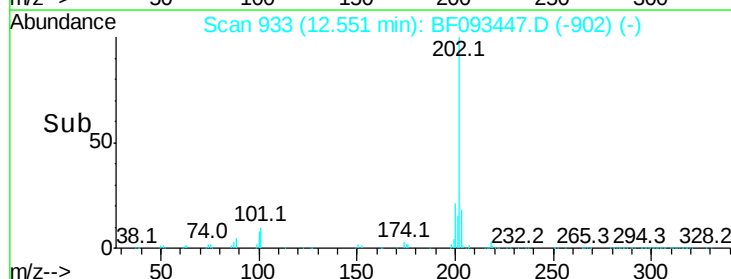
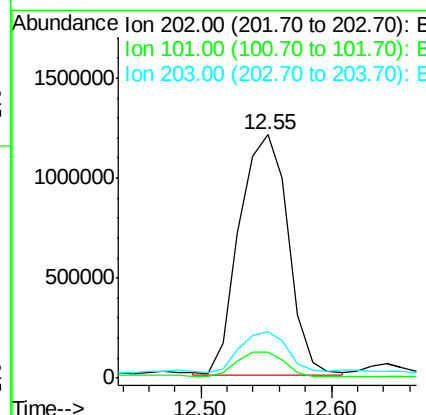
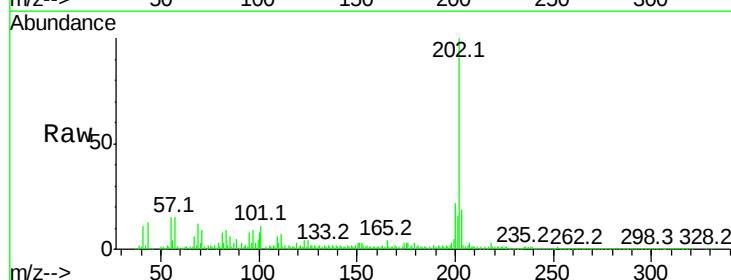
RT: 12.55 min Scan# 933

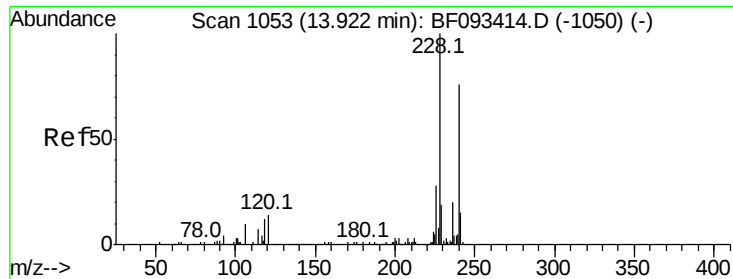
Delta R.T. 0.06 min

Lab File: BF093447.D

Acq: 8 Mar 2017 23:50

Tgt Ion	Ratio	Lower	Upper
202	100		
101	10.5	0.0	34.6
203	19.1	0.0	38.7





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.00 min Scan# 1060

Delta R.T. 0.08 min

Lab File: BF093447.D

Acq: 8 Mar 2017 23:50

Instrument :

BNA_F

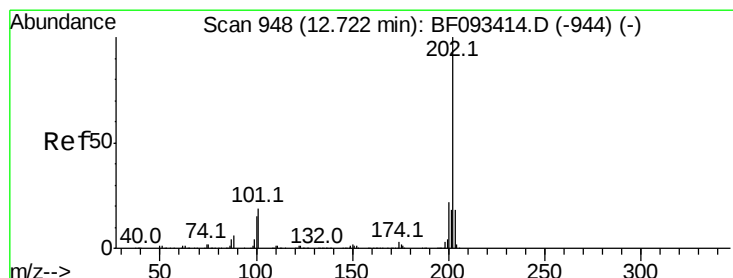
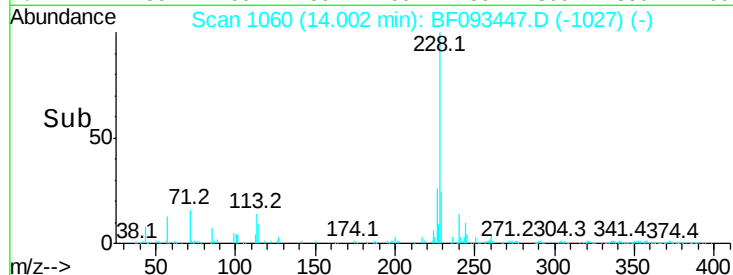
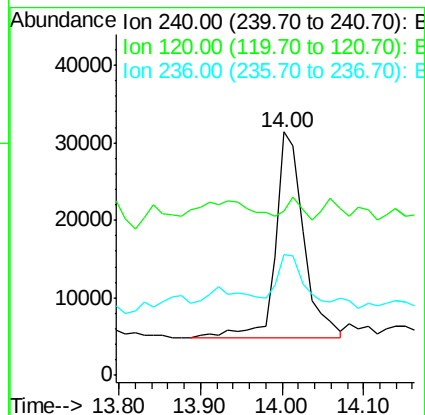
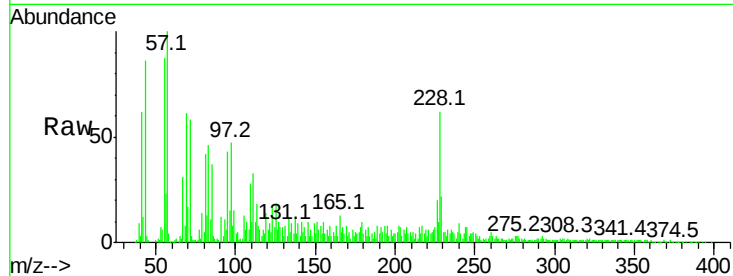
ClientSampleId :

HY-SB413A

Tot Ion	Ratio	Lower	Upper
240	100		
120	67.3	12.9	19.3#
236	49.5	20.9	31.3#

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#77

Pyrene

Concen: 507.74 ng m

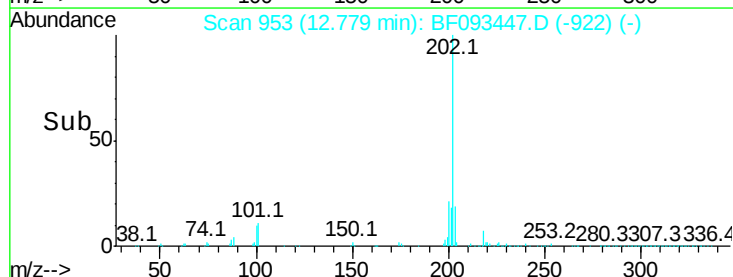
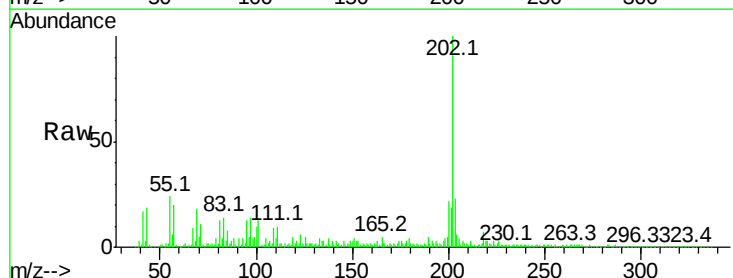
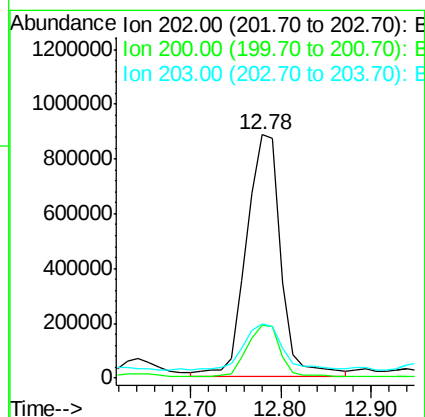
RT: 12.78 min Scan# 953

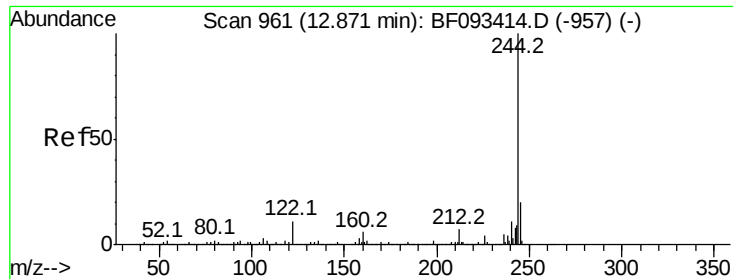
Delta R.T. 0.06 min

Lab File: BF093447.D

Acq: 8 Mar 2017 23:50

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.7	17.7	26.5
203	22.5	14.7	22.1#





#78

Terphenyl-d14

Concen: 100.22 ng

RT: 12.92 min Scan# 965

Delta R.T. 0.05 min

Lab File: BF093447.D

Acq: 8 Mar 2017 23:50

Instrument :

BNA_F

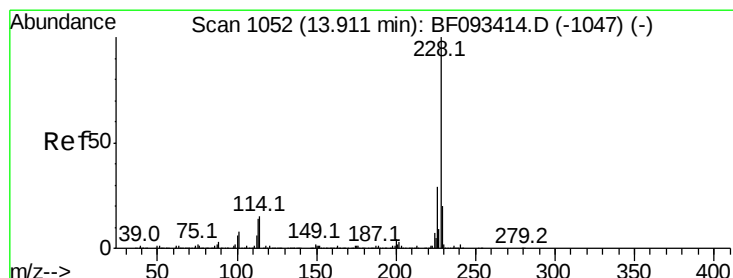
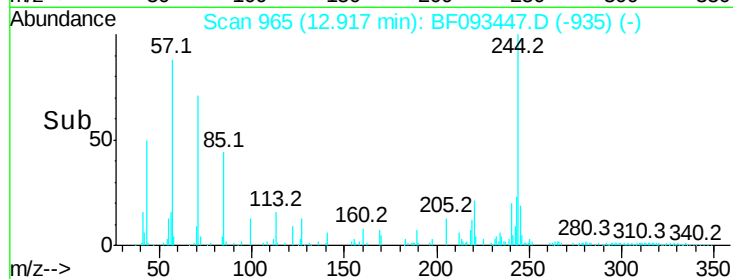
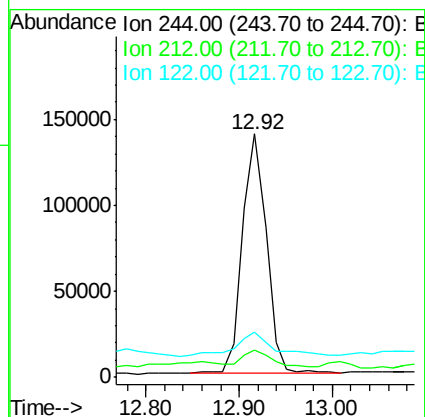
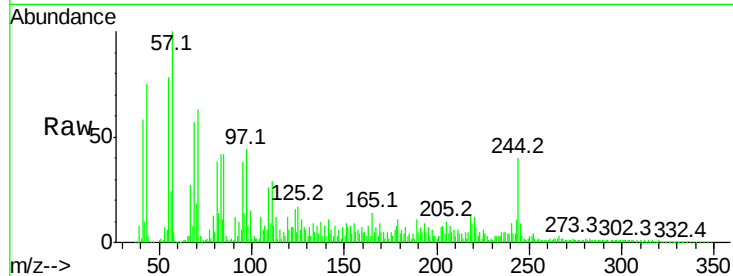
ClientSampleId :

HY-SB413A

Tot Ion	Ratio	Lower	Upper
244	100		
212	11.2	6.2	9.2#
122	18.8	11.4	17.2#

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#80

Benzo(a)anthracene

Concen: 113.86 ng

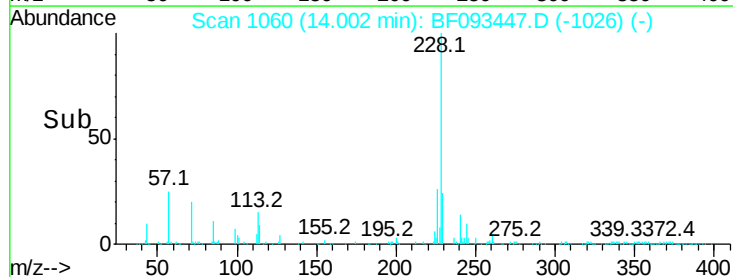
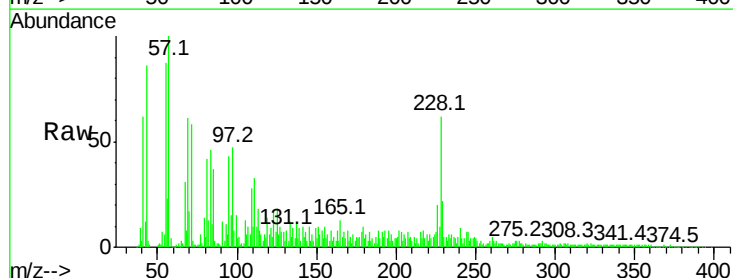
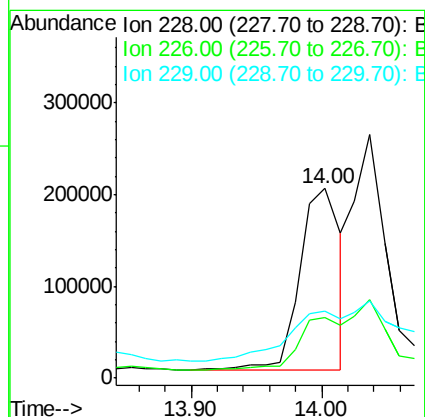
RT: 14.00 min Scan# 1060

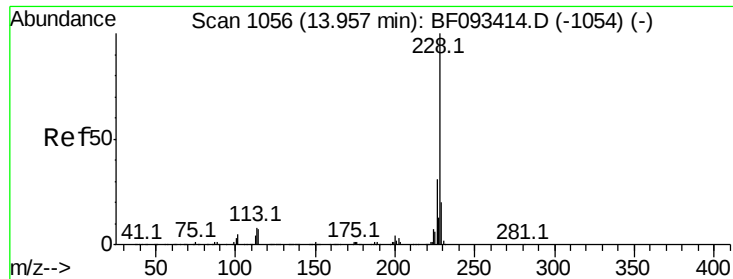
Delta R.T. 0.09 min

Lab File: BF093447.D

Acq: 8 Mar 2017 23:50

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.9	22.4	33.6
229	35.2	16.2	24.4#





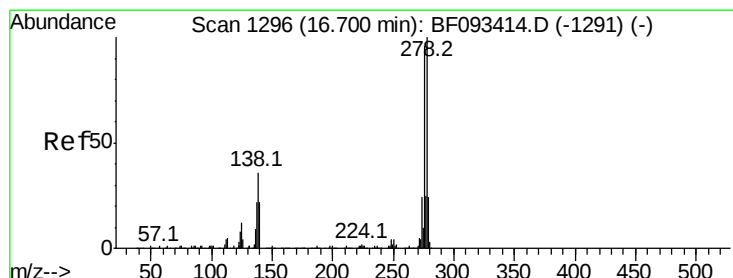
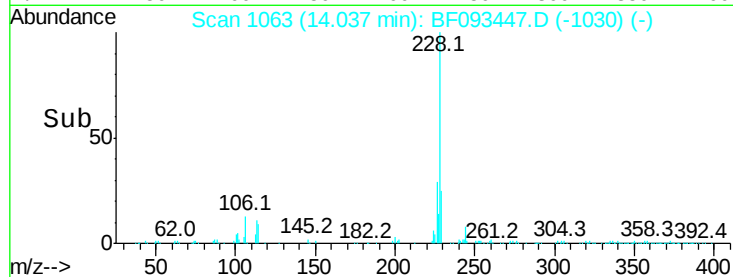
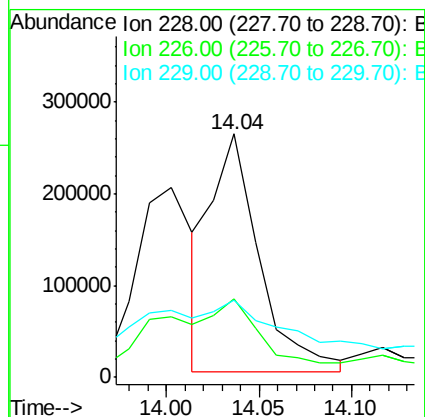
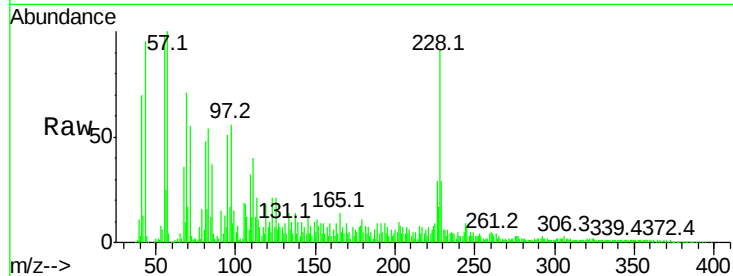
#82
Chrysene
Concen: 134.56 ng/ml
RT: 14.04 min Scan# 1063
Delta R.T. 0.08 min
Lab File: BF093447.D
Acq: 8 Mar 2017 23:50

Instrument :
BNA_F
ClientSampleId :
HY-SB413A

Tot Ion	Ratio	Lower	Upper
228	100		
226	32.4	25.4	38.0
229	31.8	16.2	24.2

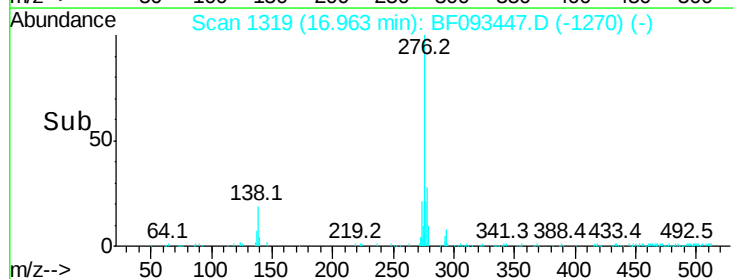
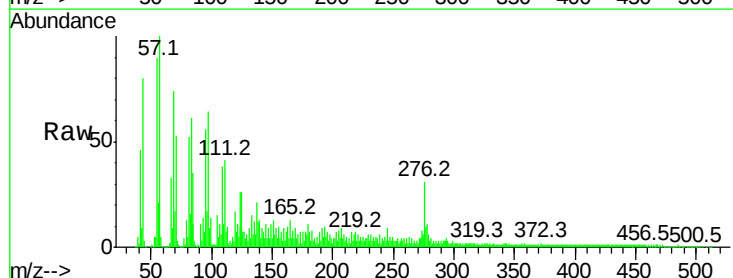
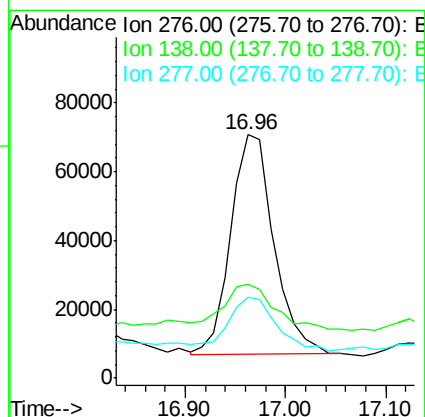
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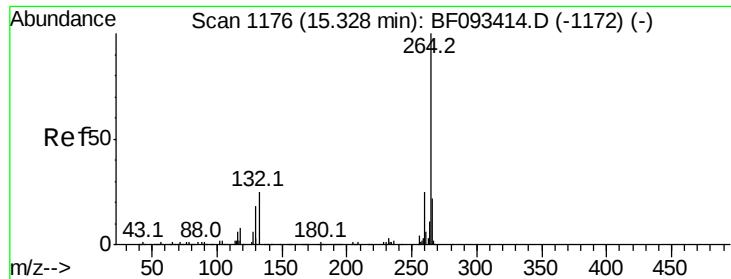
mohammad
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#85
Indeno(1,2,3-cd)pyrene
Concen: 64.69 ng/ml
RT: 16.96 min Scan# 1319
Delta R.T. 0.26 min
Lab File: BF093447.D
Acq: 8 Mar 2017 23:50

Tgt Ion	Ratio	Lower	Upper
276	100		
138	27.5	21.8	32.6
277	27.5	20.2	30.4





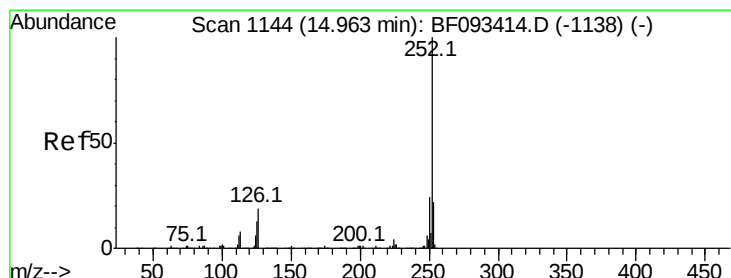
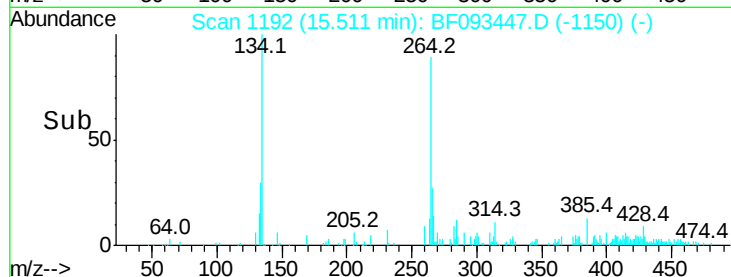
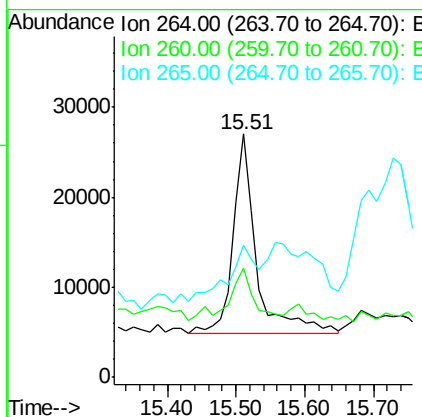
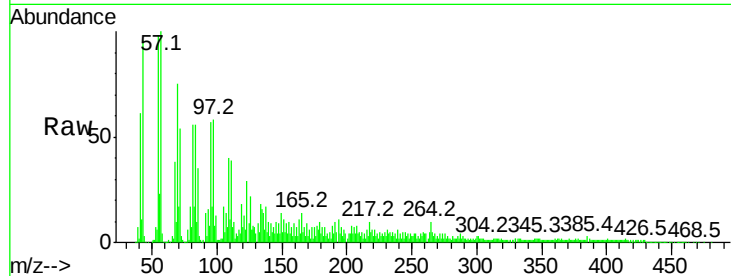
#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.51 min Scan# 1192
Delta R.T. 0.18 min
Lab File: BF093447.D
Acq: 8 Mar 2017 23:50

Instrument :
BNA_F
ClientSampleId :
HY-SB413A

Tot Ion	Ratio	Lower	Upper
264	100		
260	45.0	19.2	28.8#
265	54.2	17.4	26.0#

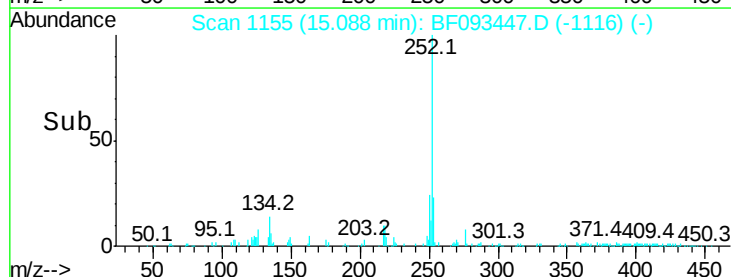
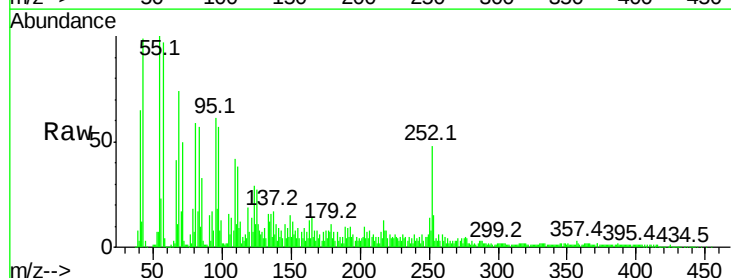
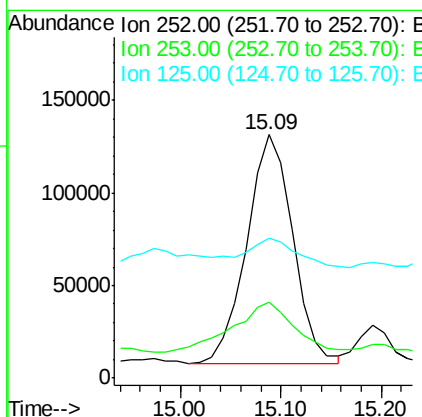
Manual Integrations
APPROVED

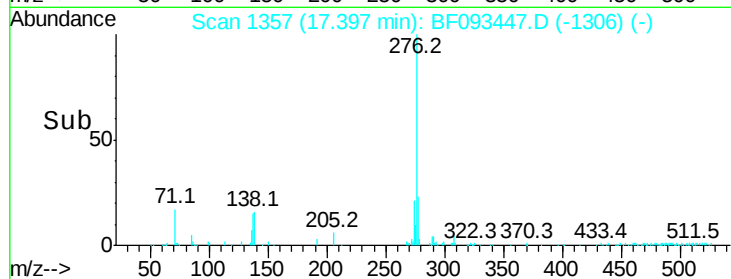
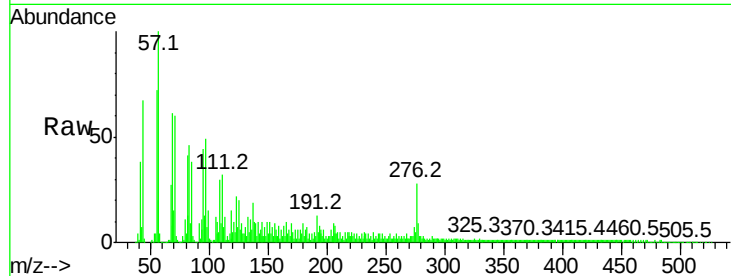
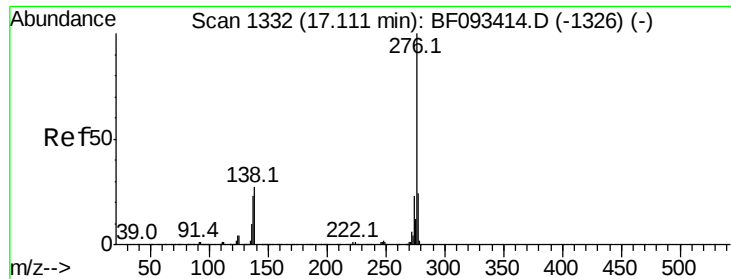
mohammad
3/10/2017 8:12:11 AM



#87
Benzo(b)fluoranthene
Concen: 122.47 ng
RT: 15.09 min Scan# 1155
Delta R.T. 0.15 min
Lab File: BF093447.D
Acq: 8 Mar 2017 23:50

Tgt Ion	Ratio	Lower	Upper
252	100		
253	31.4	18.2	27.4#
125	57.7	9.8	14.6#





#91

Benzo(a,h,i)perylene

Concen: 79.62 ng

RT: 17.40 min Scan# 1357

Delta R.T. 0.29 min

Lab File: BF093447.D

Acq: 8 Mar 2017 23:50

Instrument :

BNA_F

ClientSampleId :

HY-SB413A

Tot Ion:	276	Resp:	197585
Ion Ratio	Lower	Upper	
276	100		
277	33.8	19.2	28.8#
138	35.9	16.0	24.0#

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