

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF031816\
 Data File : BF085614.D
 Acq On : 20 Mar 2016 12:40
 Operator : UM/SJ
 Sample : H1796-15DL 500X
 Misc :
 ALS Vial : 72 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 AOU2-SB15(7-9)DL

Manual Integrations
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 3/21/2016 5:08:42 PM

Quant Time: Mar 21 05:54:09 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031816.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Mar 18 23:31:39 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.85	152	134004	20.00	ng	-0.01
21) Naphthalene-d8	8.14	136	557583	20.00	ng	0.00
38) Acenaphthene-d10	9.89	164	244085	20.00	ng	-0.01
63) Phenanthrene-d10	11.37	188	425908	20.00	ng	-0.01
75) Chrysene-d12	14.01	240	273179	20.00	ng	0.00
86) Perylene-d12	15.44	264	246403	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.46	112	946	0.12	ng	0.01
7) Phenol-d6	6.48	99	1921	0.19	ng	-0.01
23) Nitrobenzene-d5	7.42	82	859	0.09	ng	-0.01
41) 2,4,6-Tribromophenol	0.00	330	0	0.00	ng	
44) 2-Fluorobiphenyl	9.21	172	3140	-1.00	ng	-0.01
78) Terphenyl-d14	12.95	244	2262	0.20	ng	-0.01

Target Compounds				Qvalue		
10) Phenol	6.49	94	56536	4.85	ng	91
20) 3+4-Methylphenols	7.27	107	28616	3.23	ng	# 55
31) Naphthalene	8.16	128	1778605	63.20	ng	99
37) 2-Methylnaphthalene	8.85	142	202274	11.79	ng	97
45) 1,1'-Biphenyl	9.32	154	58906	2.80	ng	92
48) Acenaphthylene	9.75	152	151157	6.07	ng	97
54) Dibenzofuran	10.09	168	227660	11.97	ng	97
57) Fluorene	10.44	166	229804	14.50	ng	99
70) Phenanthrene	11.40	178	807456	35.96	ng	99
71) Anthracene	11.45	178	230147	9.77	ng	98
72) Carbazole	11.60	167	109303	5.38	ng	98
74) Fluoranthene	12.58	202	478872	20.37	ng	95
77) Pyrene	12.81	202	365297	18.62	ng	99
80) Benzo(a)anthracene	14.00	228	171897	10.84	ng	# 90
82) Chrysene	14.04	228	79222m	5.19	ng	
85) Indeno(1,2,3-cd)pyrene	16.83	276	41953	3.29	ng	96
87) Benzo(b)fluoranthene	15.03	252	121932m	7.58	ng	
88) Benzo(k)fluoranthene	15.05	252	40627m	3.07	ng	
89) Benzo(a)pyrene	15.37	252	98087	7.20	ng	97
91) Benzo(g,h,i)perylene	17.25	276	38135	3.47	ng	97

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

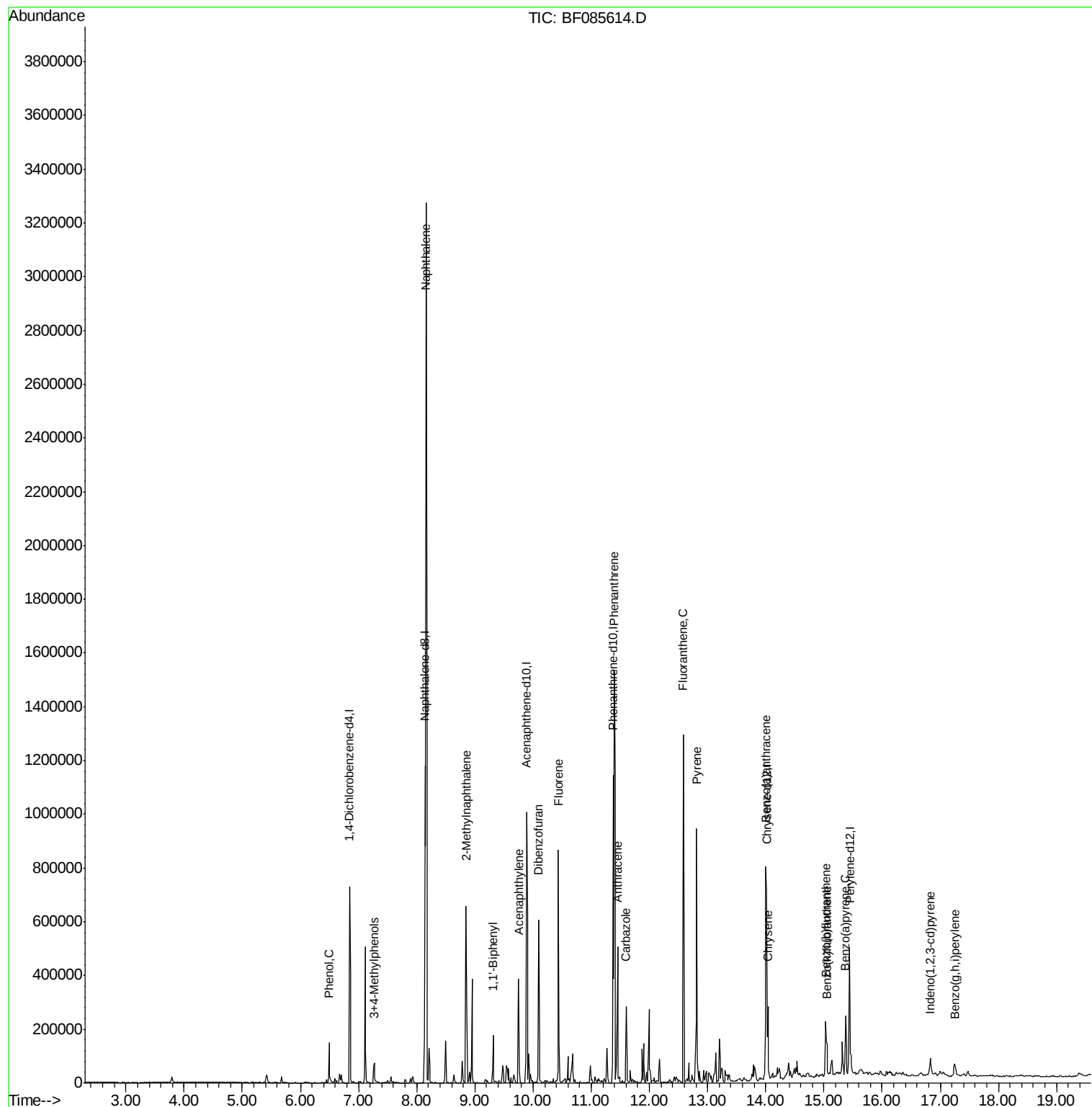
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF031816\
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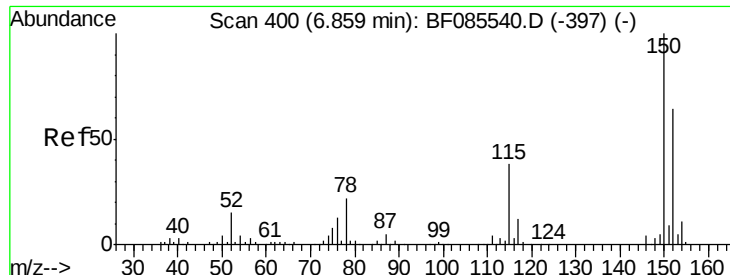
Instrument :
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AOU2-SB15(7-9)DL

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

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.85 min Scan# 399

Delta R.T. -0.01 min

Lab File: BF085614.D

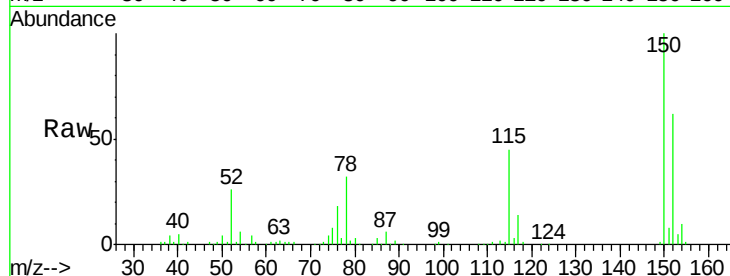
Acq: 20 Mar 2016 12:40

Instrument :

BNA_F

ClientSampleId :

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Tgt Ion:152 Resp: 134004

Ion Ratio Lower Upper

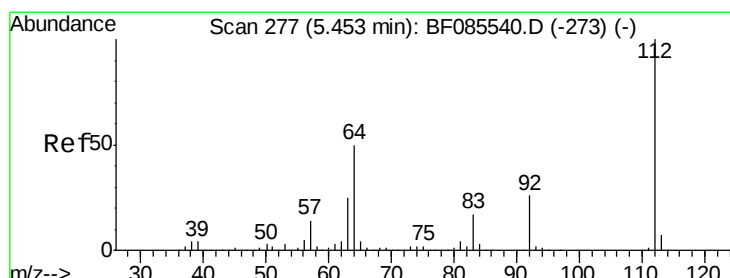
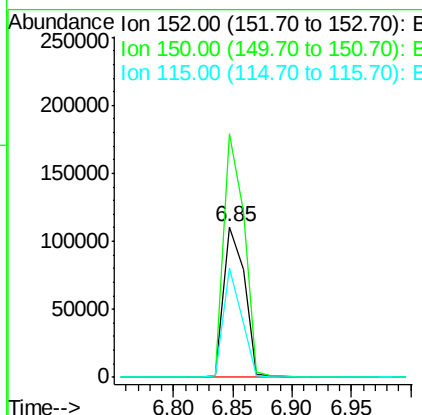
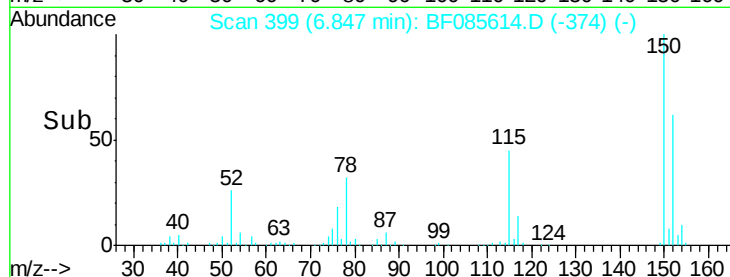
152 100

150 161.7 124.2 186.2

115 72.3 47.0 70.6#

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#5

2-Fluorophenol

Concen: 0.12 ng

RT: 5.46 min Scan# 278

Delta R.T. 0.01 min

Lab File: BF085614.D

Acq: 20 Mar 2016 12:40

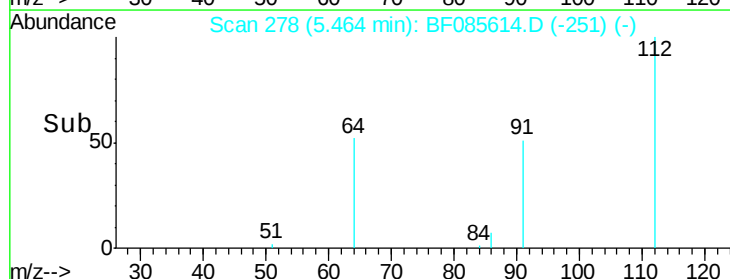
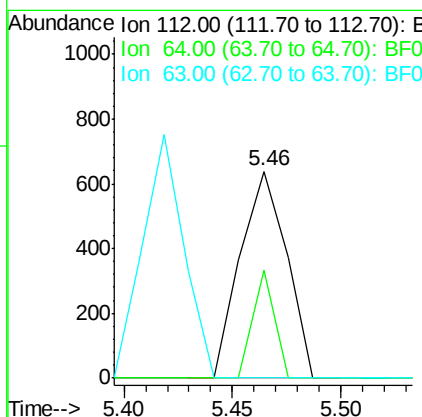
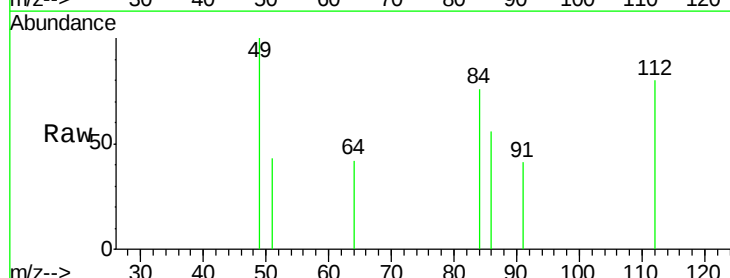
Tgt Ion:112 Resp: 946

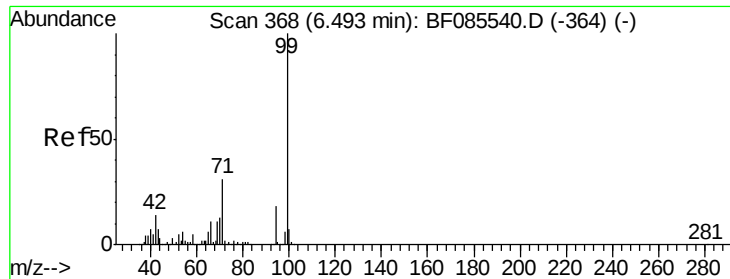
Ion Ratio Lower Upper

112 100

64 52.4 39.9 59.9

63 0.0 20.2 30.2#





#7

Phenol-d6

Concen: 0.19 ng

RT: 6.48 min Scan# 367

Delta R.T. -0.01 min

Lab File: BF085614.D

Acq: 20 Mar 2016 12:40

Instrument :

BNA_F

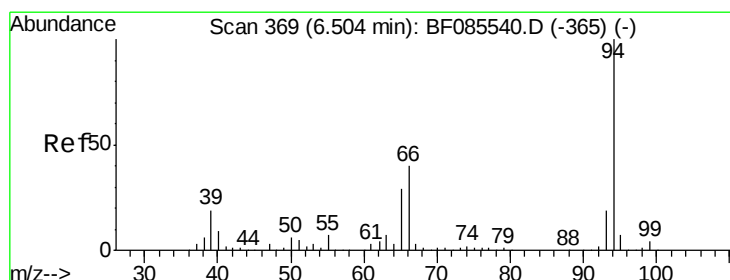
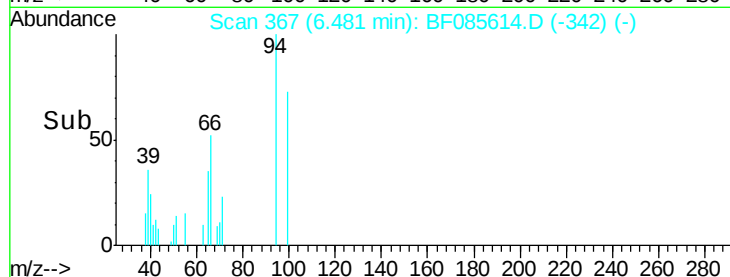
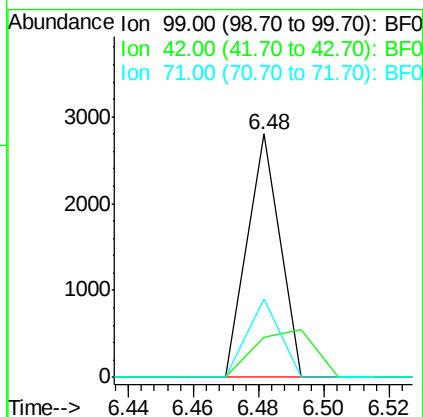
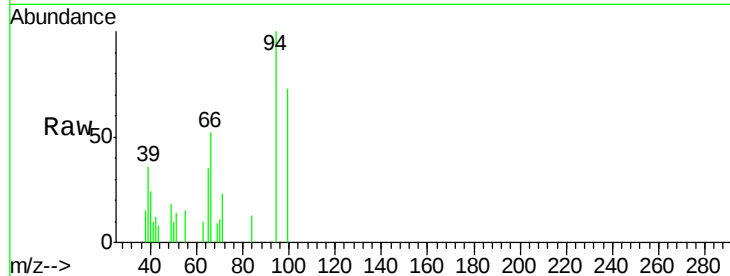
ClientSampleId :

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Tgt Ion:	99	Resp:	1921
Ion Ratio	Lower	Upper	
99	100		
42	16.6	11.1	16.7
71	32.0	24.9	37.3

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#10

Phenol

Concen: 4.85 ng

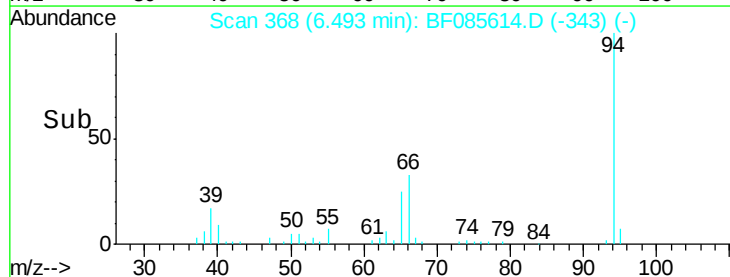
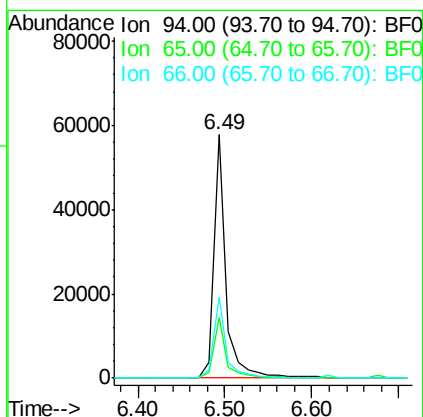
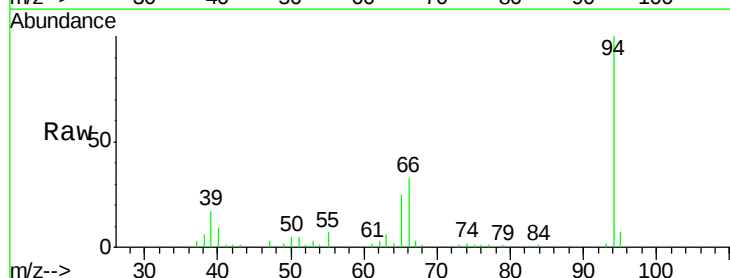
RT: 6.49 min Scan# 368

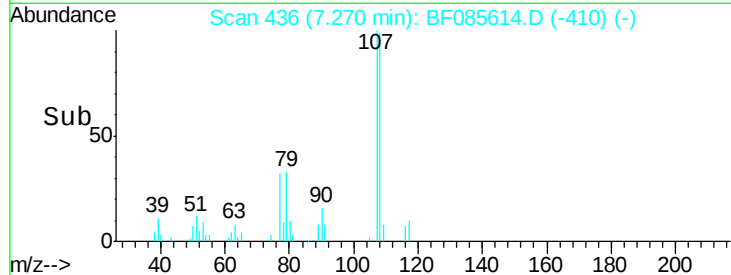
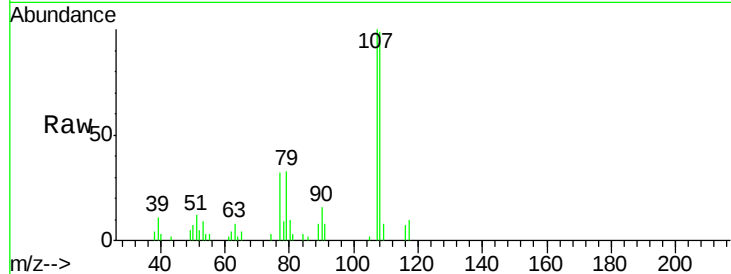
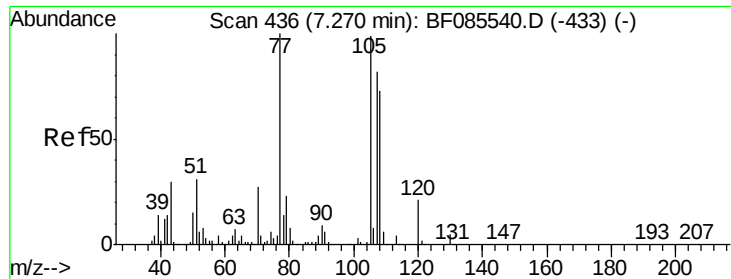
Delta R.T. -0.01 min

Lab File: BF085614.D

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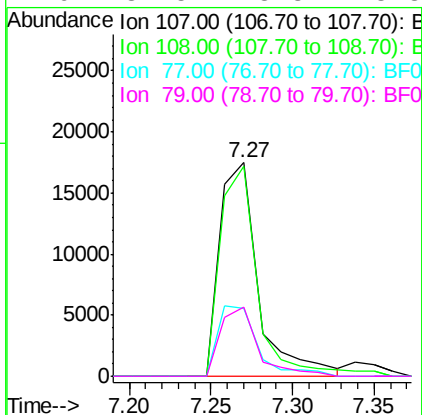
Tgt Ion:	94	Resp:	56536
Ion Ratio	Lower	Upper	
94	100		
65	24.9	8.6	48.6
66	33.4	20.0	60.0





#20
3+4-Methylphenols
Concen: 3.23 ng
RT: 7.27 min Scan# 436
Delta R.T. 0.00 min
Lab File: BF085614.D
Acq: 20 Mar 2016 12:40

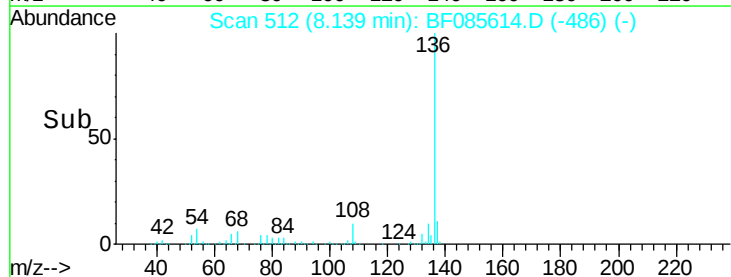
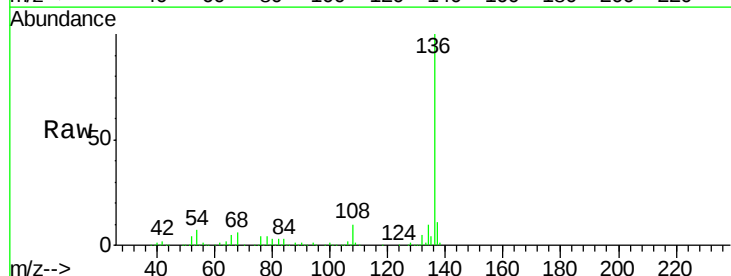
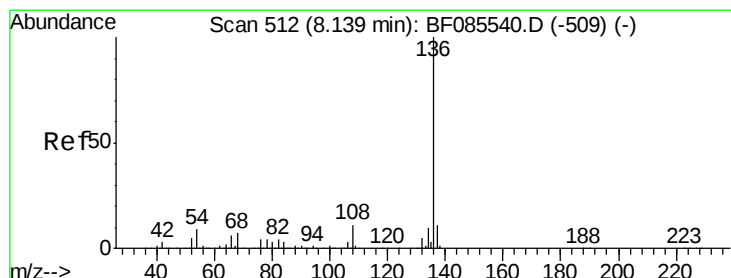
Tgt Ion	Ratio	Resp	Lower	Upper
107	100	28616		
108	98.5	69.3	109.3	
77	31.9	101.7	141.7	
79	32.5	8.3	48.3	



Instrument :
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AOU2-SB15(7-9)DL

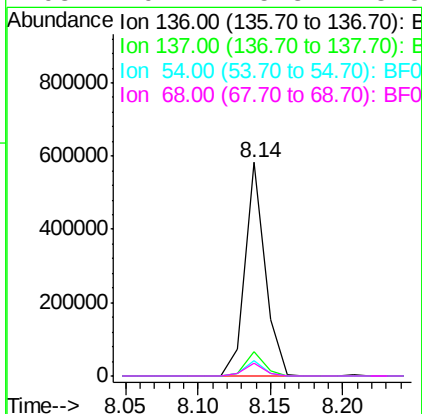
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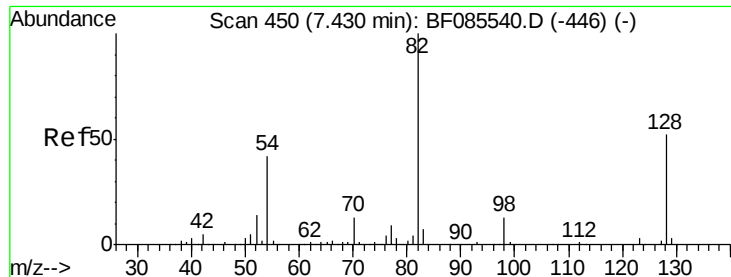
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#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.14 min Scan# 512
Delta R.T. 0.00 min
Lab File: BF085614.D
Acq: 20 Mar 2016 12:40

Tgt Ion	Ratio	Resp	Lower	Upper
136	100	557583		
137	11.2	9.1	13.7	
54	7.5	7.4	11.0	
68	6.1	5.8	8.8	





#23

Nitrobenzene-d5

Concen: 0.09 ng

RT: 7.42 min Scan# 449

Delta R.T. -0.01 min

Lab File: BF085614.D

Acq: 20 Mar 2016 12:40

Instrument :

BNA_F

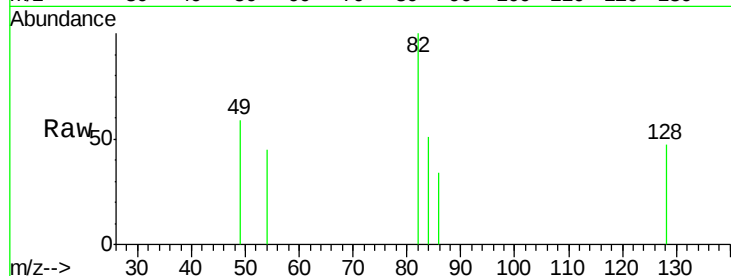
ClientSampleId :

AOU2-SB15(7-9)DL

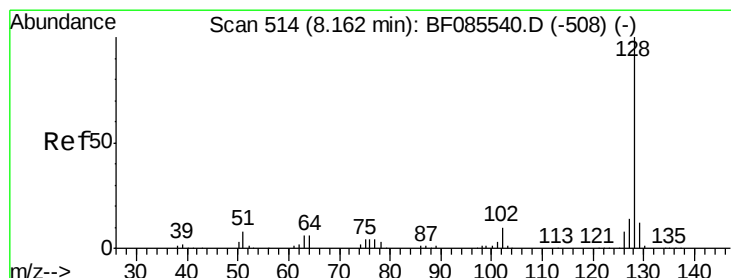
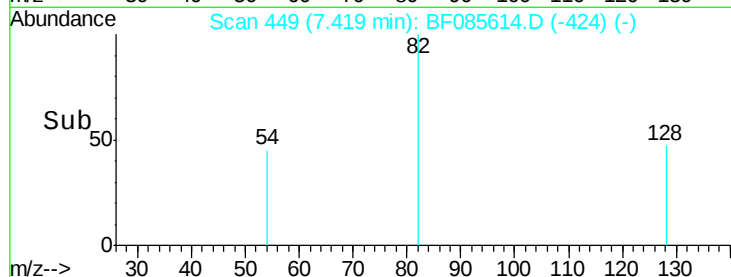
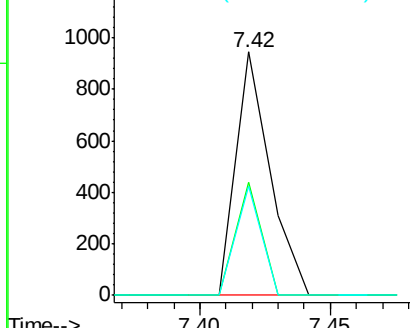
Tgt Ion:	82	Resp:	859
Ion Ratio	Lower	Upper	
82	100		
128	46.7	41.8	62.8
54	44.8	33.4	50.0

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Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF0



#31

Naphthalene

Concen: 63.20 ng

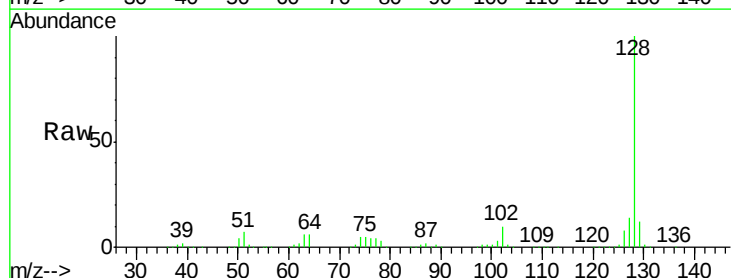
RT: 8.16 min Scan# 514

Delta R.T. 0.00 min

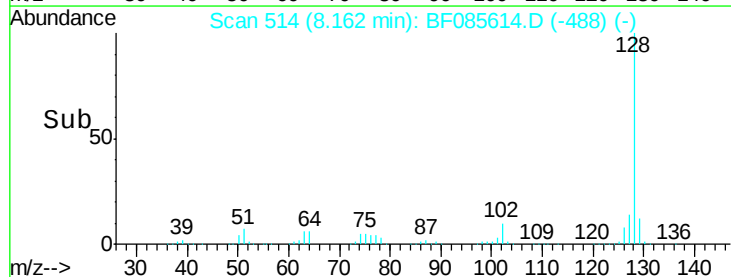
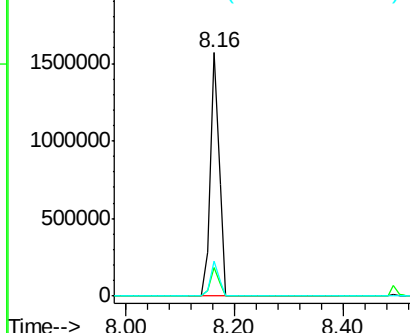
Lab File: BF085614.D

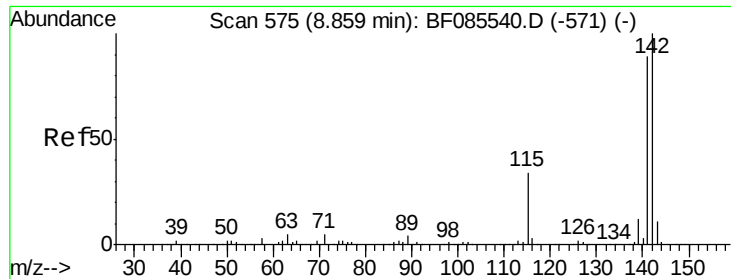
Acq: 20 Mar 2016 12:40

Tgt Ion:	128	Resp:	1778605
Ion Ratio	Lower	Upper	
128	100		
129	11.9	9.4	14.0
127	14.2	11.0	16.6



Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E





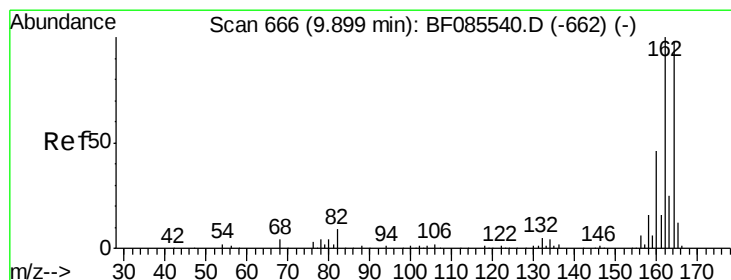
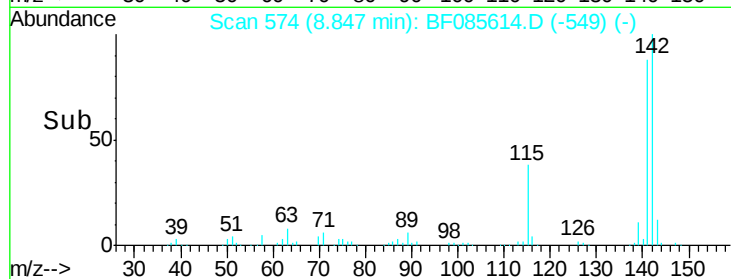
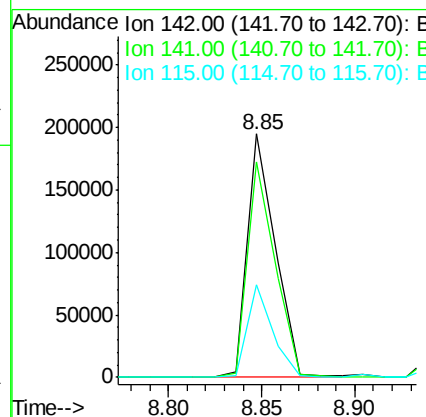
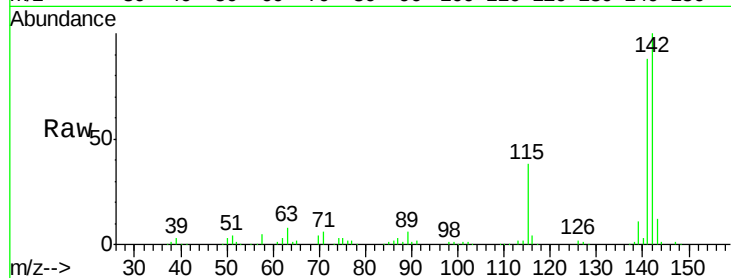
#37
 2-Methylnaphthalene
 Concen: 11.79 ng
 RT: 8.85 min Scan# 574
 Delta R.T. -0.01 min
 Lab File: BF085614.D
 Acq: 20 Mar 2016 12:40

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 AOU2-SB15(7-9)DL

Tgt Ion	Ratio	Lower	Upper
142	100		
141	88.5	71.6	107.4
115	37.8	26.8	40.2

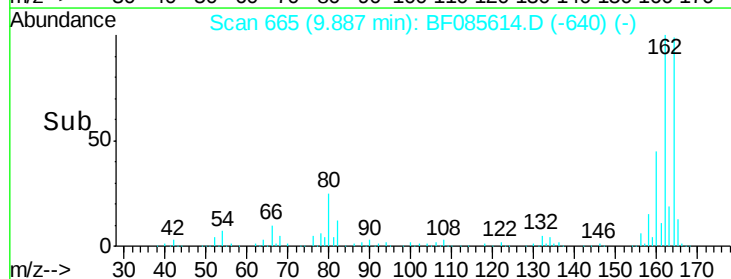
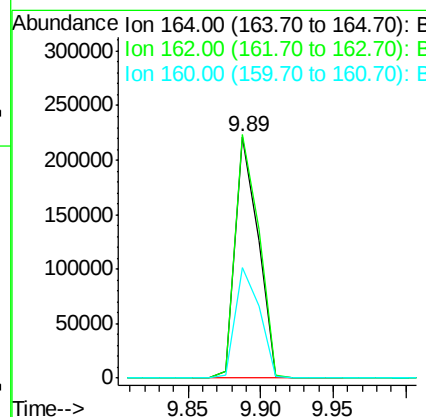
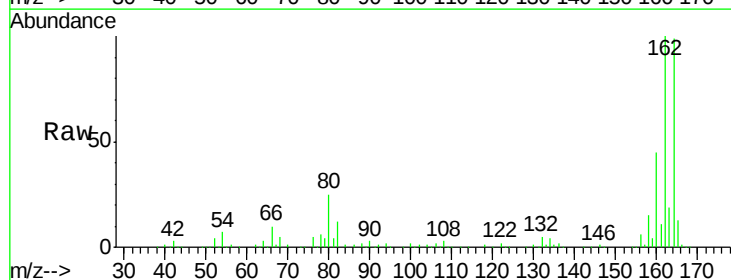
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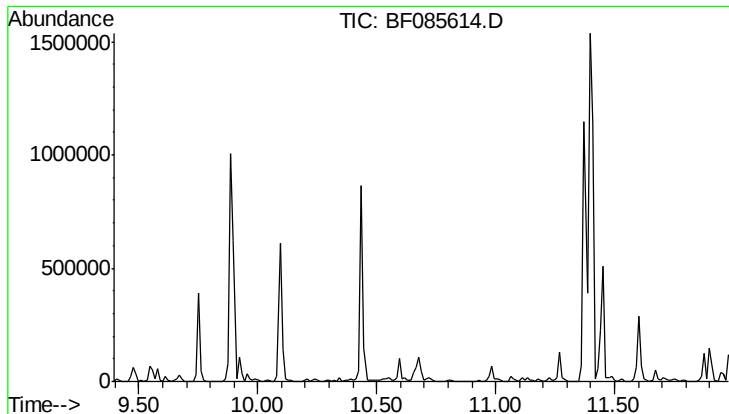
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#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.89 min Scan# 665
 Delta R.T. -0.01 min
 Lab File: BF085614.D
 Acq: 20 Mar 2016 12:40

Tgt Ion	Ratio	Lower	Upper
164	100		
162	100.9	82.1	123.1
160	45.6	37.4	56.2





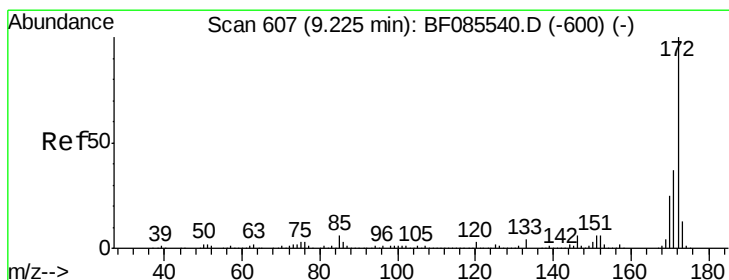
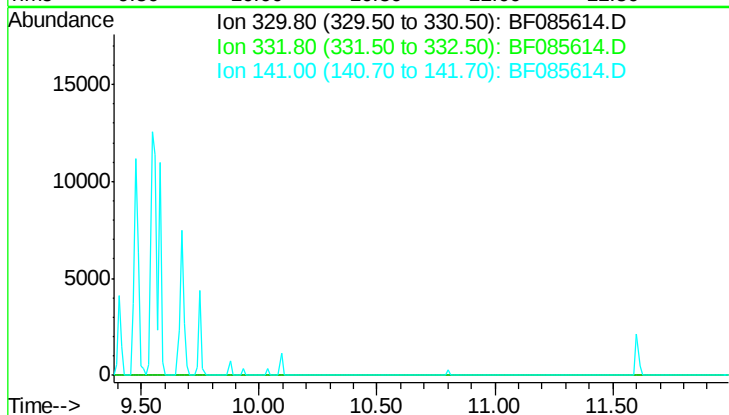
#41
 2,4,6-Tribromophenol
 Concen: 0.00 ng
 Expected RT: 10.69 min
 Lab File: BF085614.D
 Acq: 20 Mar 2016 12:40

Instrument :
 BNA_F
 ClientSampleId :
 AOU2-SB15(7-9)DL

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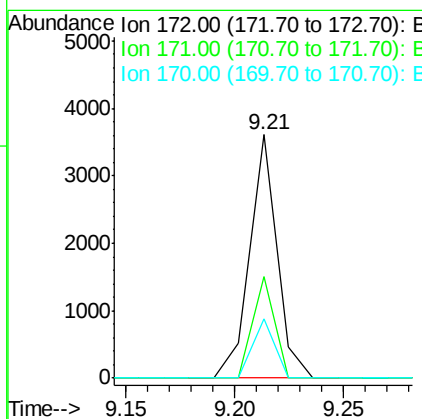
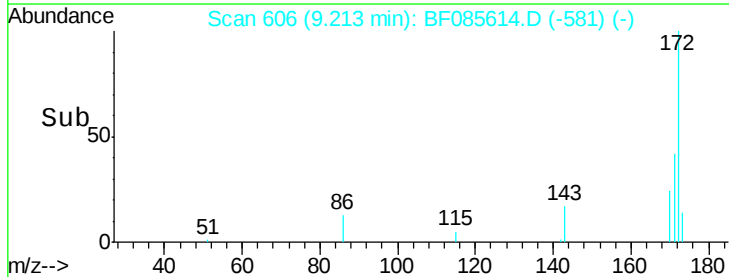
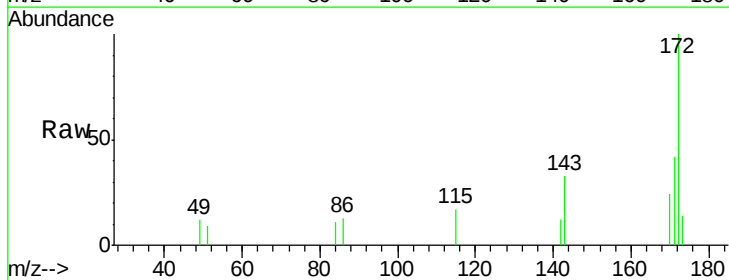
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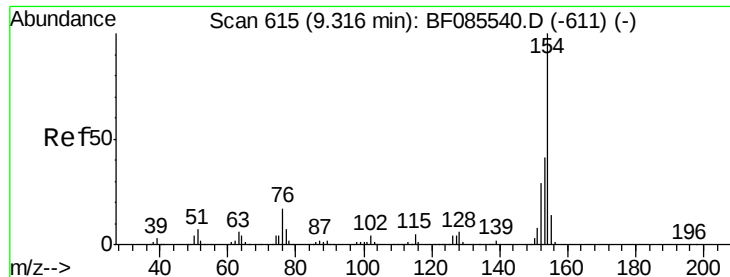
Tgt Ion: 330
 Sig Exp Ratio
 330 100
 332 97.7
 141 39.4



#44
 2-Fluorobiphenyl
 Concen: -1.00 ng
 RT: 9.21 min Scan# 606
 Delta R.T. -0.01 min
 Lab File: BF085614.D
 Acq: 20 Mar 2016 12:40

Tgt Ion: 172 Resp: 3140
 Ion Ratio Lower Upper
 172 100
 171 41.6 29.4 44.2
 170 24.5 19.8 29.6





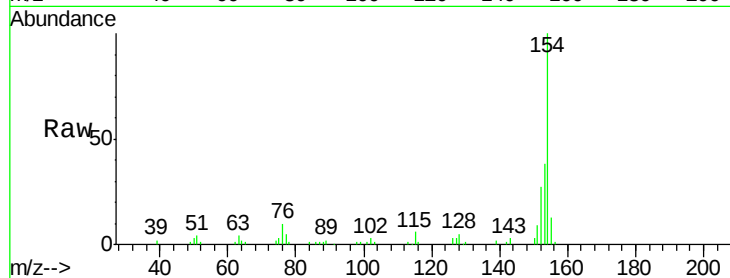
#45
1,1'-Biphenyl
Concen: 2.80 ng
RT: 9.32 min Scan# 615
Delta R.T. 0.00 min
Lab File: BF085614.D
Acq: 20 Mar 2016 12:40

Instrument :
BNA_F
ClientSampleId :
AOU2-SB15(7-9)DL

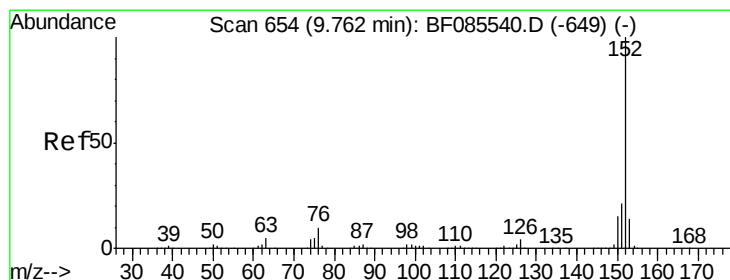
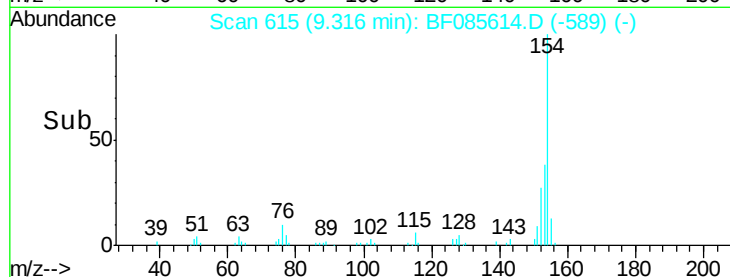
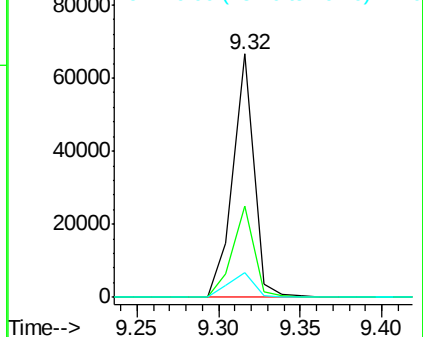
Tgt Ion	Ratio	Resp Lower	Upper
154	100		
153	37.7	20.8	60.8
76	9.9	0.0	36.7

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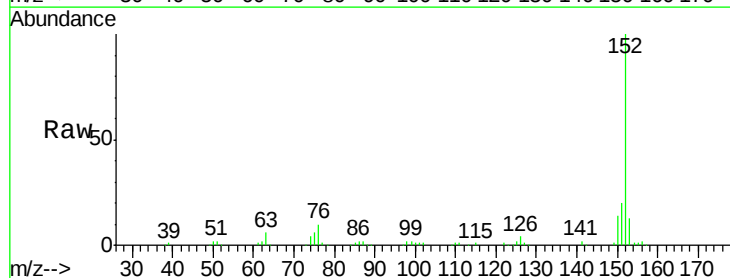


Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 76.00 (75.70 to 76.70): BF0

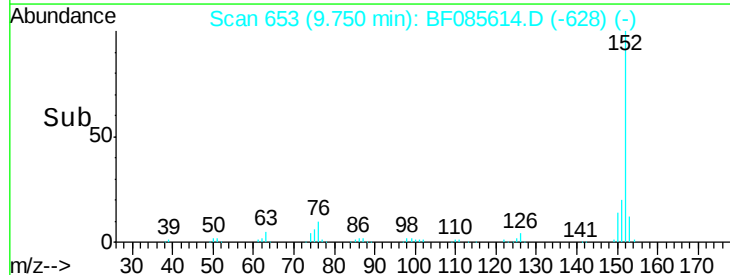
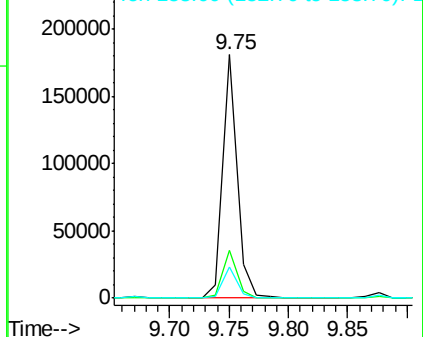


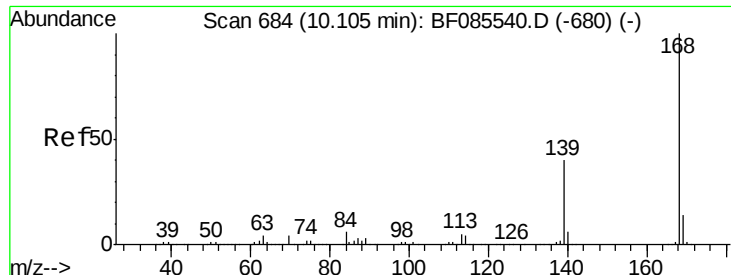
#48
Acenaphthylene
Concen: 6.07 ng
RT: 9.75 min Scan# 653
Delta R.T. -0.01 min
Lab File: BF085614.D
Acq: 20 Mar 2016 12:40

Tgt Ion	Ratio	Resp Lower	Upper
152	100		
151	19.6	16.8	25.2
153	12.6	10.9	16.3



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





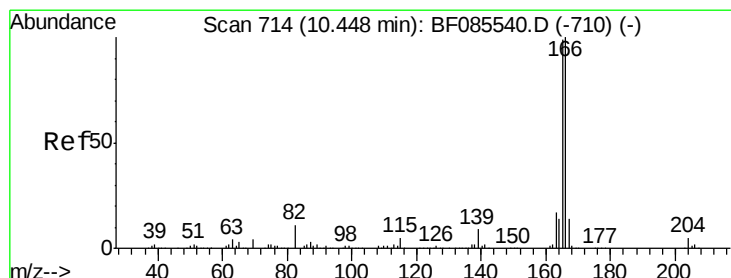
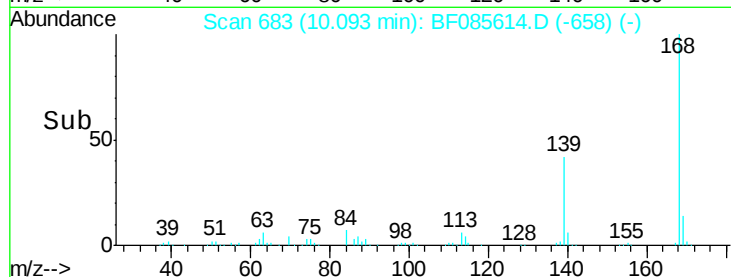
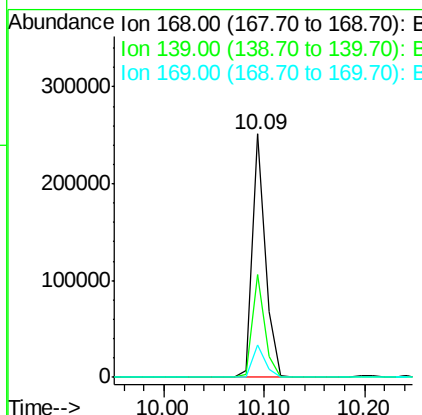
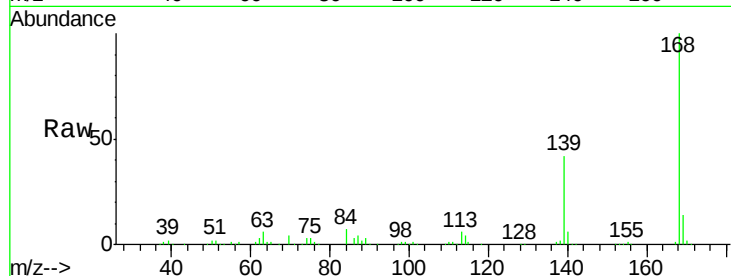
#54
Dibenzenofuran
Concen: 11.97 ng
RT: 10.09 min Scan# 683
Delta R.T. -0.01 min
Lab File: BF085614.D
Acq: 20 Mar 2016 12:40

Instrument :
BNA_F
ClientSampleId :
AOU2-SB15(7-9)DL

Tgt Ion	Ratio	Resp	Lower	Upper
168	100	227660		
139	42.4	31.9	47.9	
169	13.6	11.0	16.6	

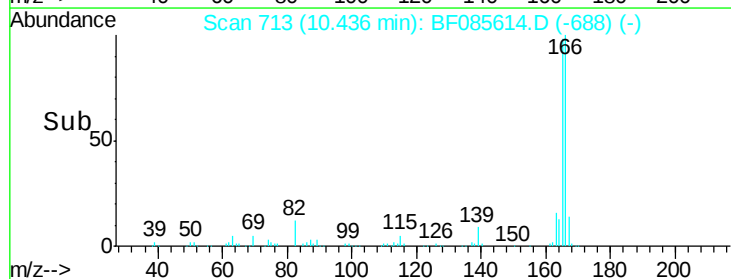
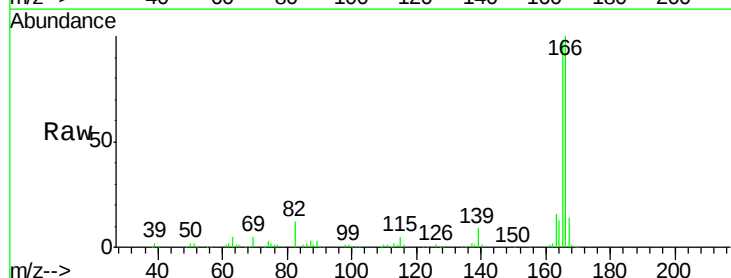
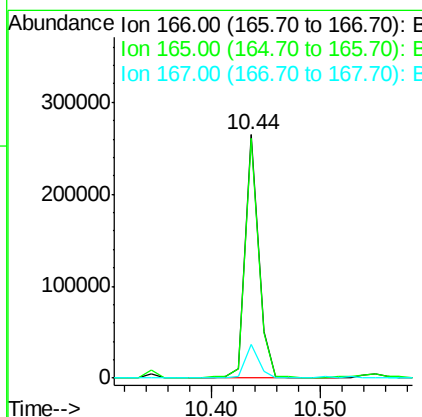
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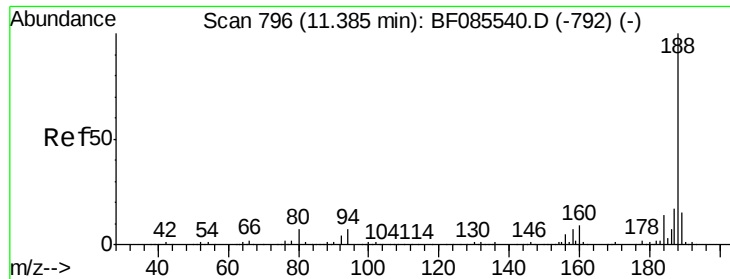
mohammad
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#57
Fluorene
Concen: 14.50 ng
RT: 10.44 min Scan# 713
Delta R.T. -0.01 min
Lab File: BF085614.D
Acq: 20 Mar 2016 12:40

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	229804		
165	98.5	79.4	119.0	
167	13.6	11.0	16.4	





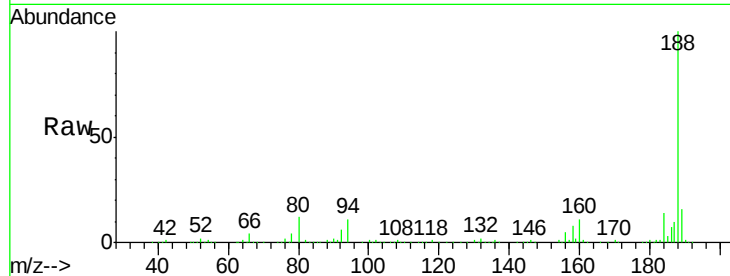
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.37 min Scan# 795
Delta R.T. -0.01 min
Lab File: BF085614.D
Acq: 20 Mar 2016 12:40

Instrument :
BNA_F
ClientSampleId :
AOU2-SB15(7-9)DL

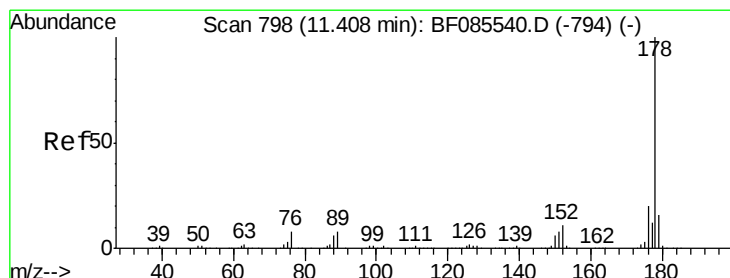
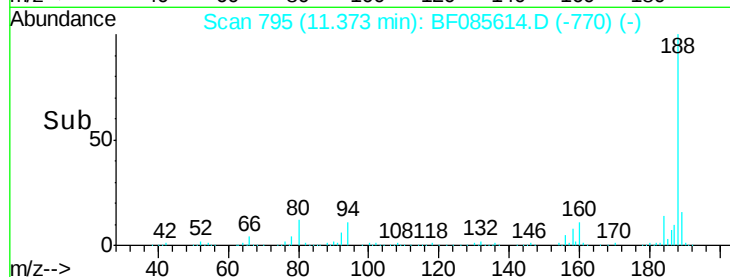
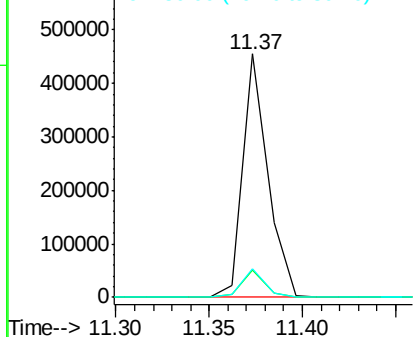
Tgt Ion	Ratio	Resp Lower	Upper
188	100		
94	11.2	5.4	8.0#
80	11.9	5.5	8.3#

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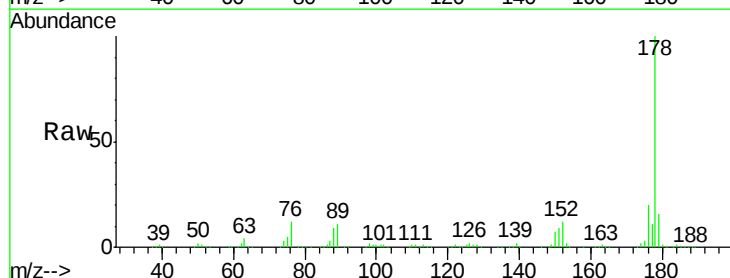


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0

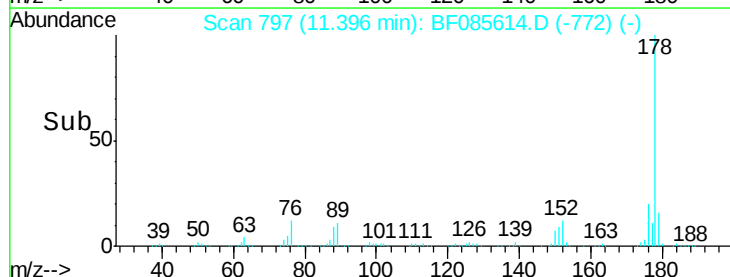
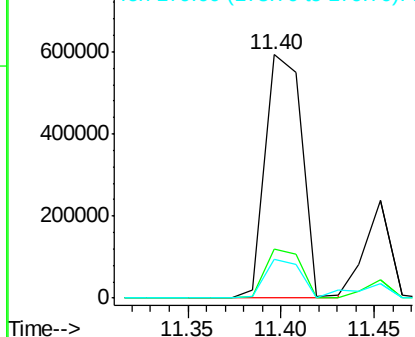


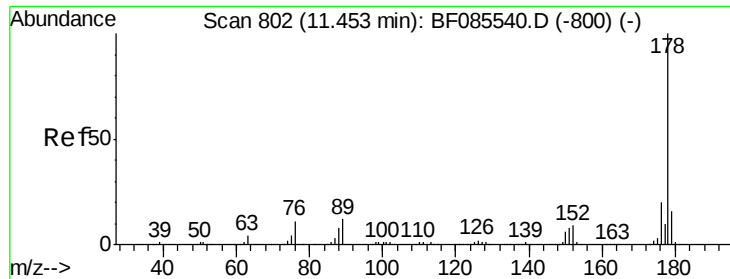
#70
Phenanthrene
Concen: 35.96 ng
RT: 11.40 min Scan# 797
Delta R.T. -0.01 min
Lab File: BF085614.D
Acq: 20 Mar 2016 12:40

Tgt Ion	Ratio	Resp Lower	Upper
178	100		
176	20.0	16.3	24.5
179	16.2	12.6	18.8



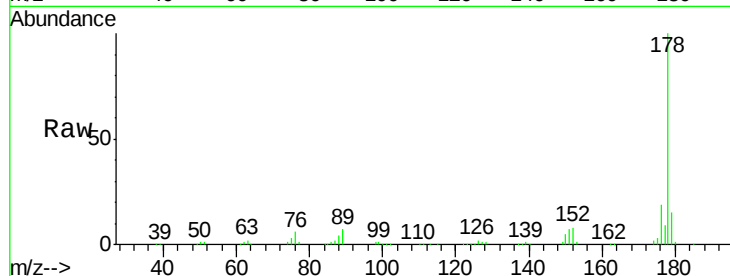
Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E





#71
 Anthracene
 Concen: 9.77 ng
 RT: 11.45 min Scan# 802
 Delta R.T. 0.00 min
 Lab File: BF085614.D
 Acq: 20 Mar 2016 12:40

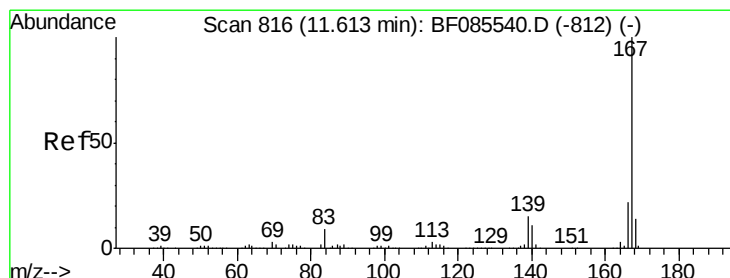
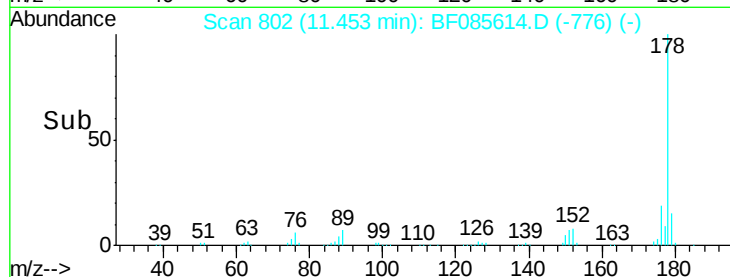
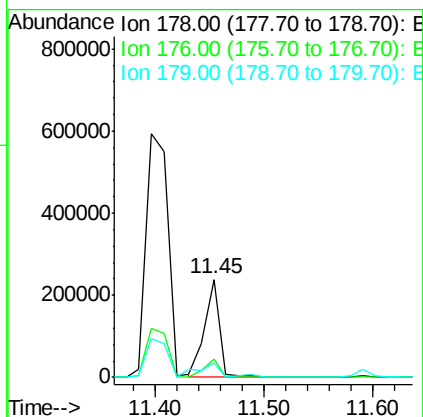
Instrument :
 BNA_F
 ClientSampleId :
 AOU2-SB15(7-9)DL



Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.9	23.9
179	15.1	13.0	19.4

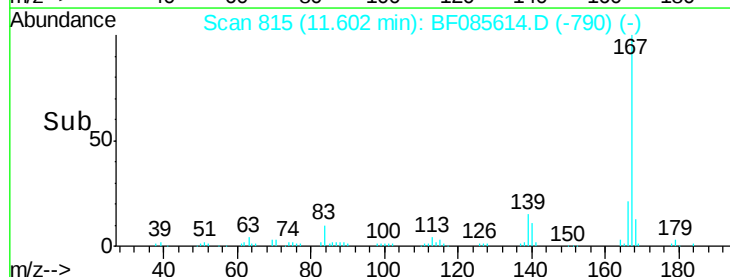
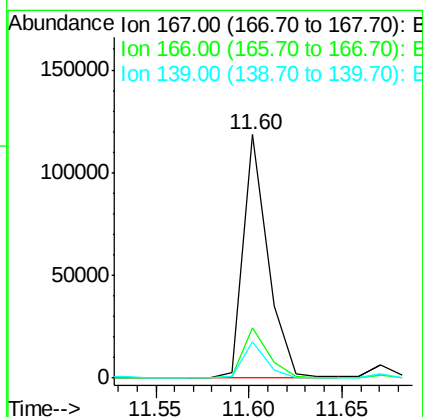
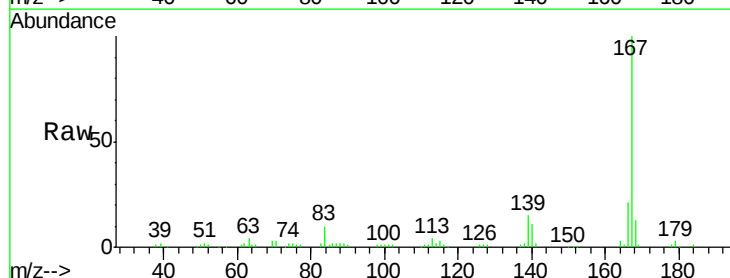
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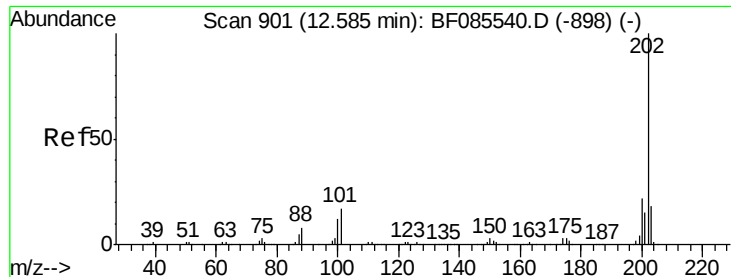
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#72
 Carbazole
 Concen: 5.38 ng
 RT: 11.60 min Scan# 815
 Delta R.T. -0.01 min
 Lab File: BF085614.D
 Acq: 20 Mar 2016 12:40

Tgt Ion	Ratio	Lower	Upper
167	100		
166	20.6	17.8	26.8
139	14.7	11.6	17.4





#74

Fluoranthene

Concen: 20.37 ng

RT: 12.58 min Scan# 901

Delta R.T. 0.00 min

Lab File: BF085614.D

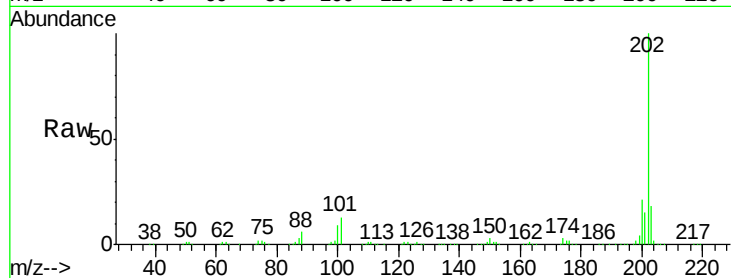
Acq: 20 Mar 2016 12:40

Instrument :

BNA_F

ClientSampleId :

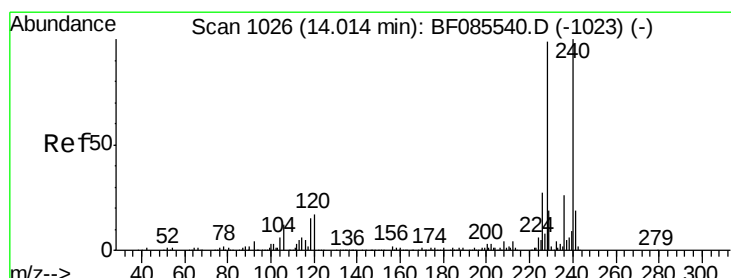
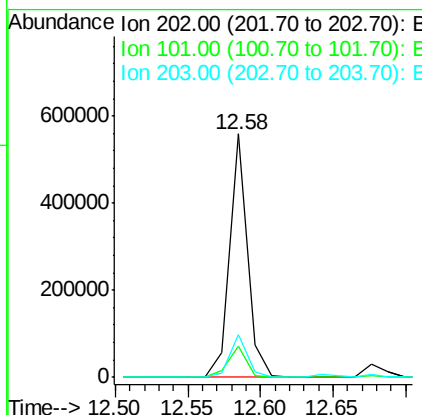
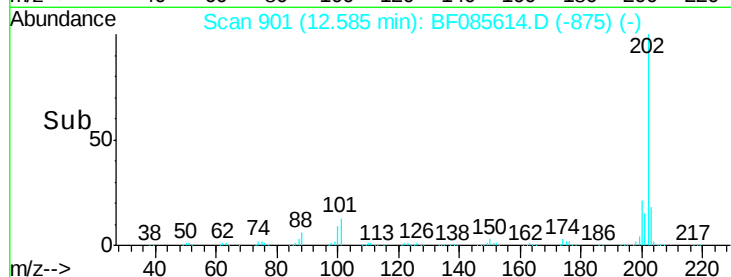
AOU2-SB15(7-9)DL



Tgt Ion	Ratio	Resp	Lower	Upper
202	100	478872		
101	12.7	0.0	36.6	
203	17.7	0.0	38.1	

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#75

Chrysene-d12

Concen: 20.00 ng

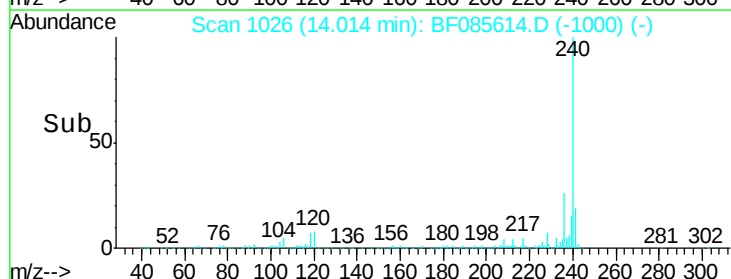
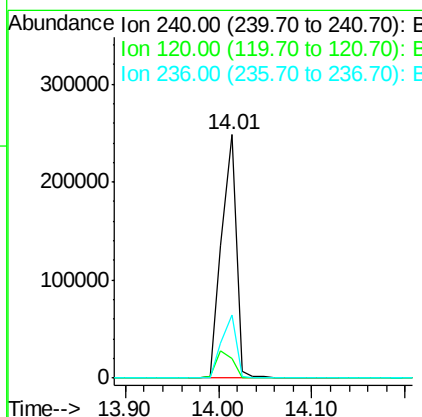
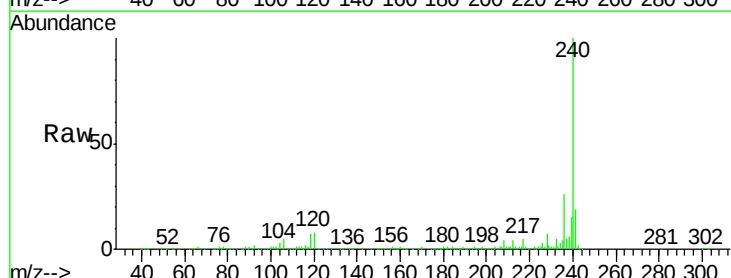
RT: 14.01 min Scan# 1026

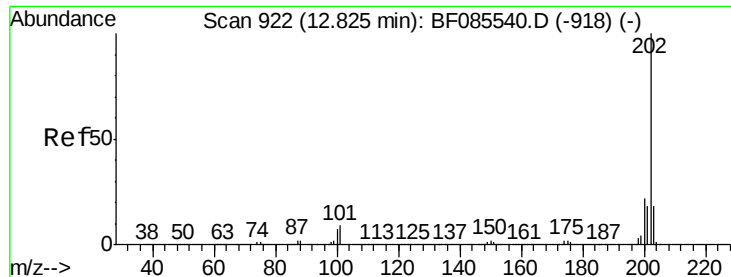
Delta R.T. 0.00 min

Lab File: BF085614.D

Acq: 20 Mar 2016 12:40

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	273179		
120	7.8	13.8	20.8#	
236	26.1	20.6	30.8	





#77

Pyrene

Concen: 18.62 ng

RT: 12.81 min Scan# 921

Delta R.T. -0.01 min

Lab File: BF085614.D

Acq: 20 Mar 2016 12:40

Instrument :

BNA_F

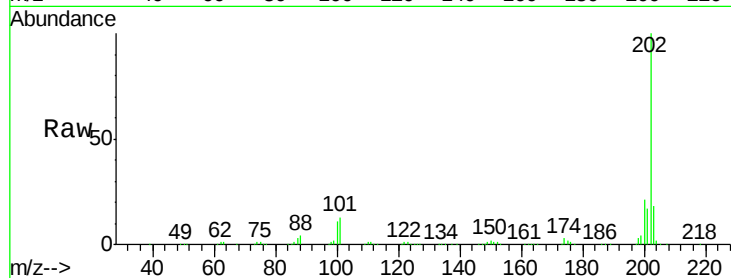
ClientSampleId :

AOU2-SB15(7-9)DL

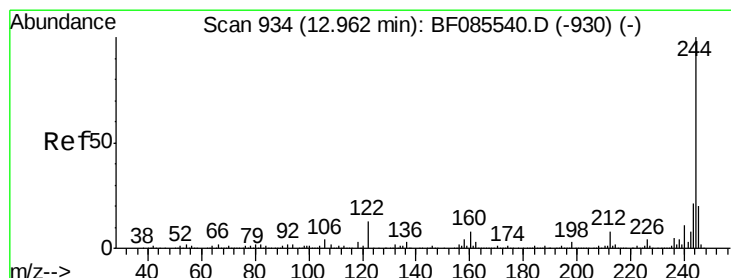
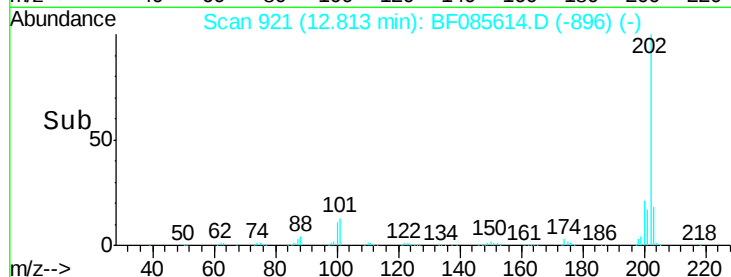
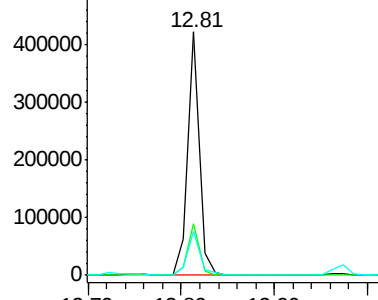
Tgt Ion:	202	Resp:	365297
Ion Ratio	Lower	Upper	
202	100		
200	21.2	17.6	26.4
203	17.9	14.0	21.0

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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: 0.20 ng

RT: 12.95 min Scan# 933

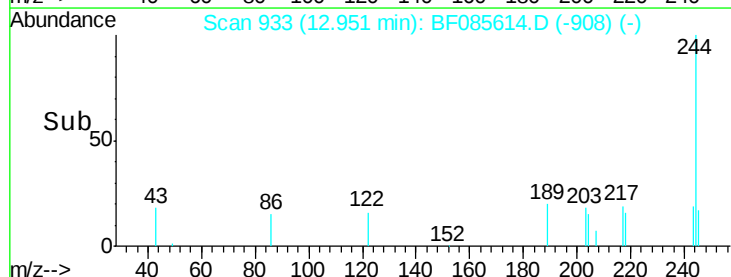
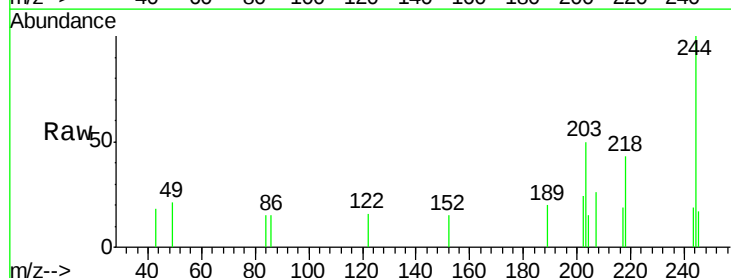
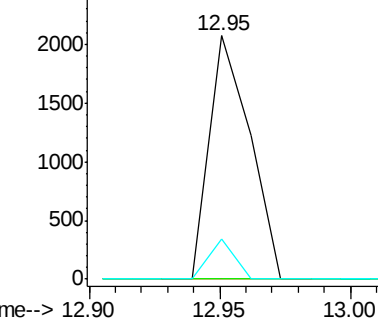
Delta R.T. -0.01 min

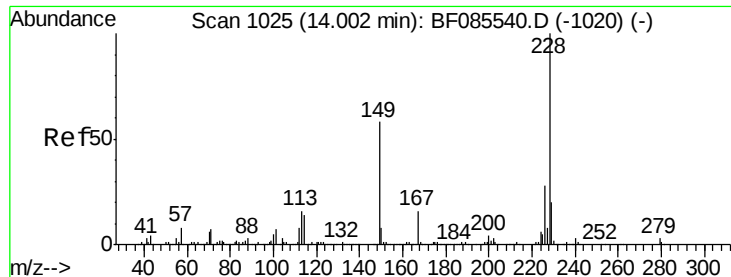
Lab File: BF085614.D

Acq: 20 Mar 2016 12:40

Tgt Ion:	244	Resp:	2262
Ion Ratio	Lower	Upper	
244	100		
212	0.0	6.1	9.1#
122	16.4	10.2	15.4#

Abundance Ion 244.00 (243.70 to 244.70): E
Ion 212.00 (211.70 to 212.70): E
Ion 122.00 (121.70 to 122.70): E





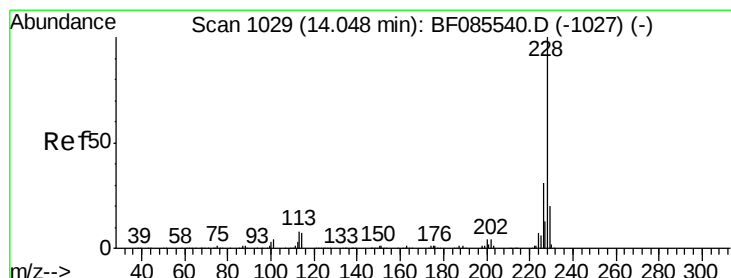
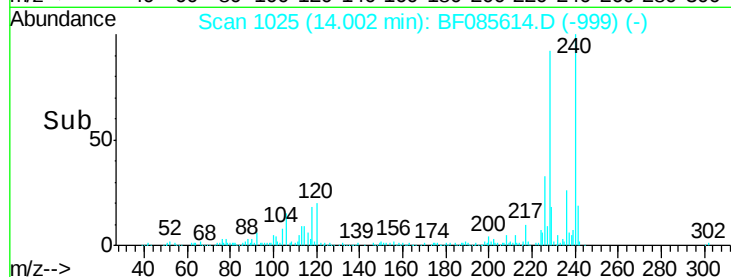
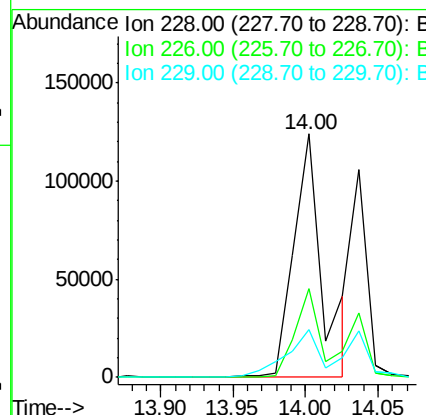
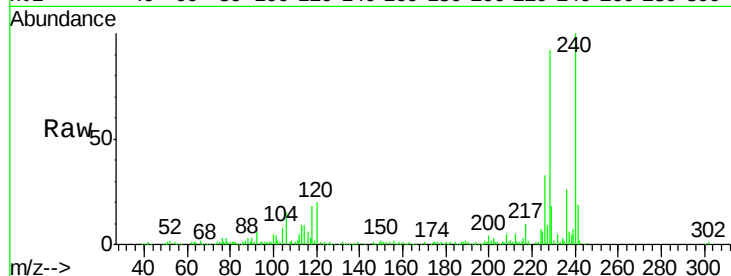
#80
Benzo(a)anthracene
Concen: 10.84 ng
RT: 14.00 min Scan# 1025
Delta R.T. 0.00 min
Lab File: BF085614.D
Acq: 20 Mar 2016 12:40

Instrument :
BNA_F
ClientSampleId :
AOU2-SB15(7-9)DL

Tgt Ion	Ratio	Lower	Upper
228	100		
226	36.2	22.1	33.1#
229	19.7	16.2	24.4

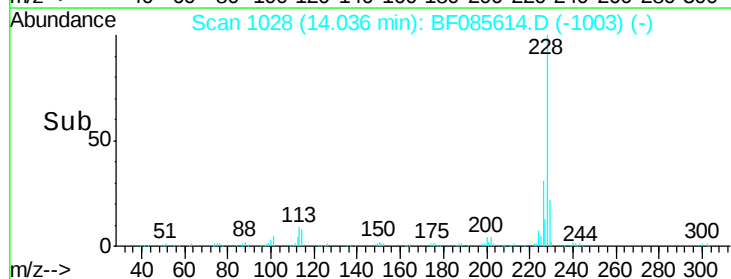
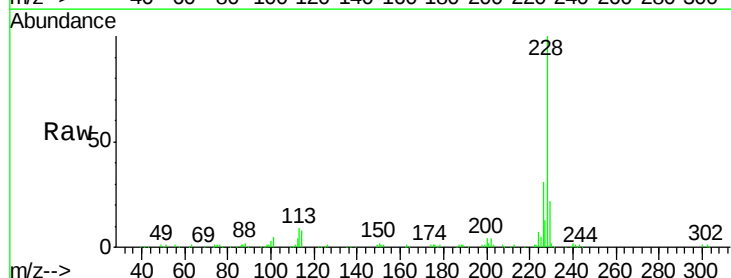
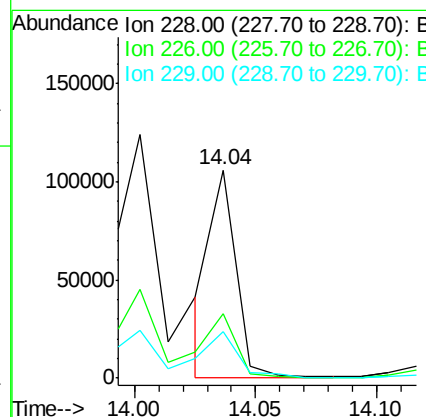
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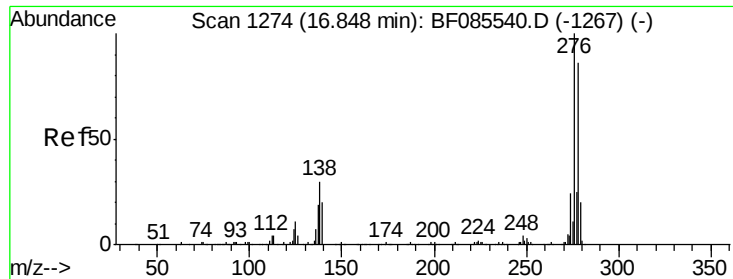
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#82
Chrysene
Concen: 5.19 ng m
RT: 14.04 min Scan# 1028
Delta R.T. -0.01 min
Lab File: BF085614.D
Acq: 20 Mar 2016 12:40

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.7	25.0	37.6
229	22.2	15.7	23.5





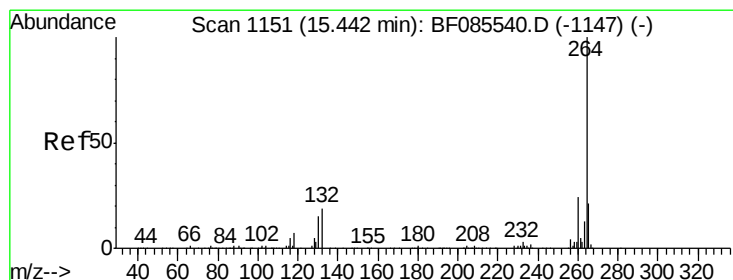
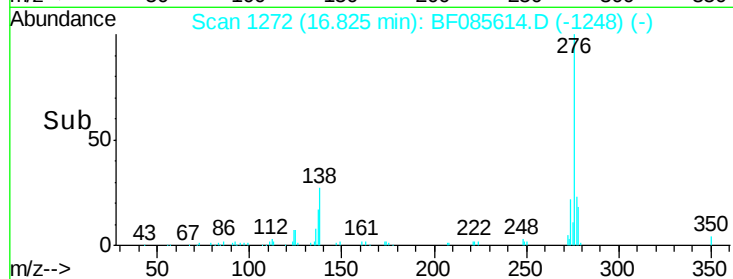
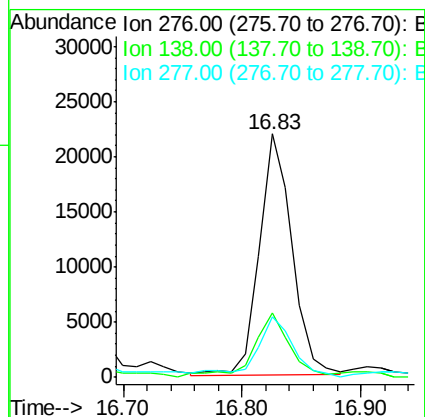
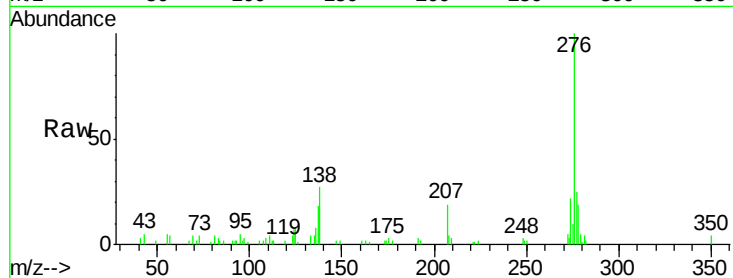
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 3.29 ng
 RT: 16.83 min Scan# 1272
 Delta R.T. -0.02 min
 Lab File: BF085614.D
 Acq: 20 Mar 2016 12:40

Instrument :
 BNA_F
 ClientSampleId :
 AOU2-SB15(7-9)DL

Tgt Ion	Ratio	Lower	Upper
276	100		
138	29.6	24.2	36.4
277	29.0	20.0	30.0

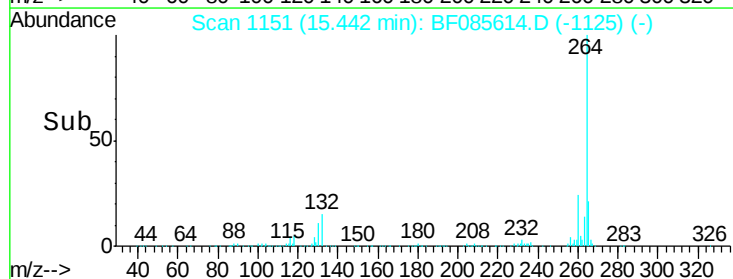
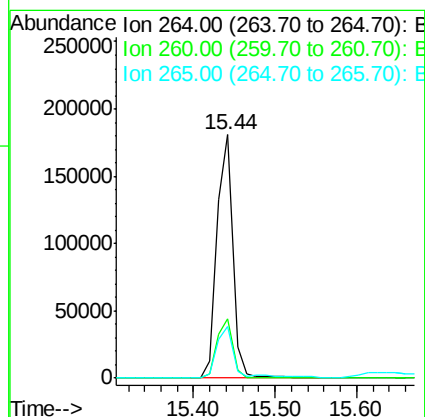
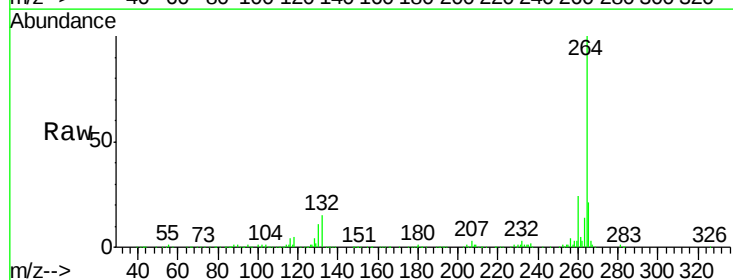
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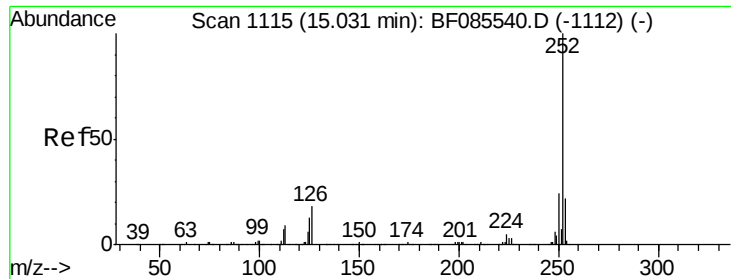
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#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.44 min Scan# 1151
 Delta R.T. 0.00 min
 Lab File: BF085614.D
 Acq: 20 Mar 2016 12:40

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.4	19.4	29.2
265	21.2	17.2	25.8





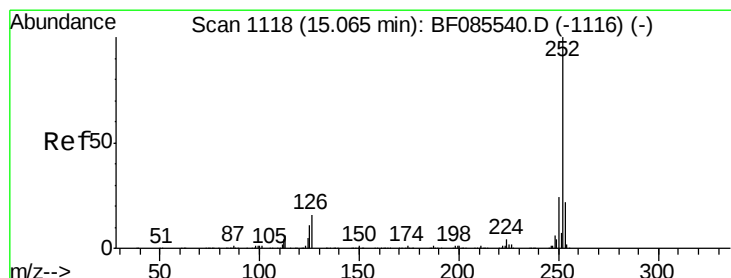
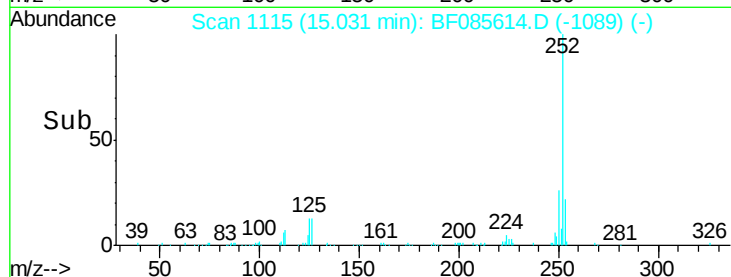
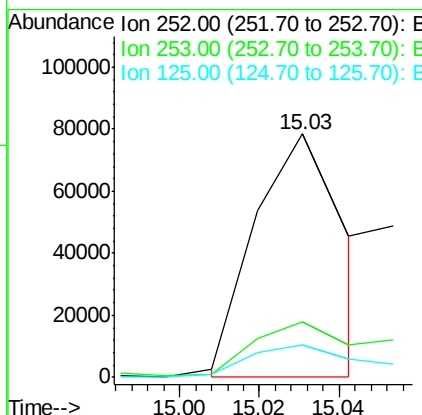
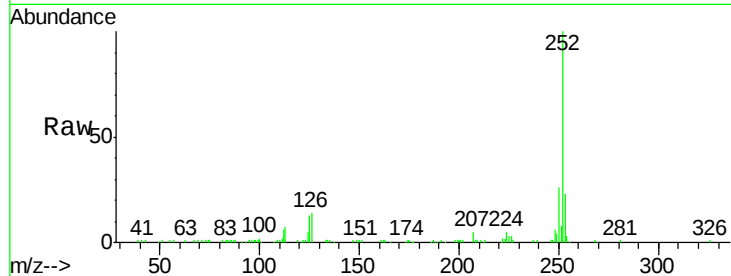
#87
Benzo(b)fluoranthene
Concen: 7.58 ng m
RT: 15.03 min Scan# 1115
Delta R.T. 0.00 min
Lab File: BF085614.D
Acq: 20 Mar 2016 12:40

Instrument :
BNA_F
ClientSampleId :
AOU2-SB15(7-9)DL

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.6	26.4
125	13.1	10.3	15.5

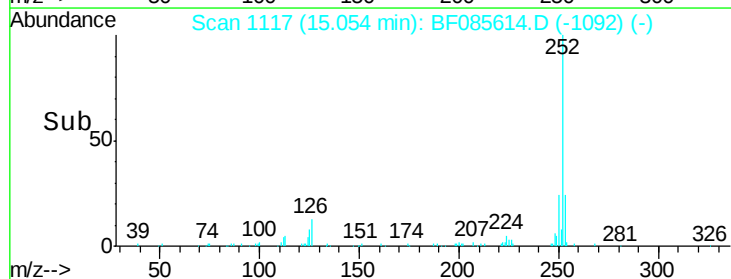
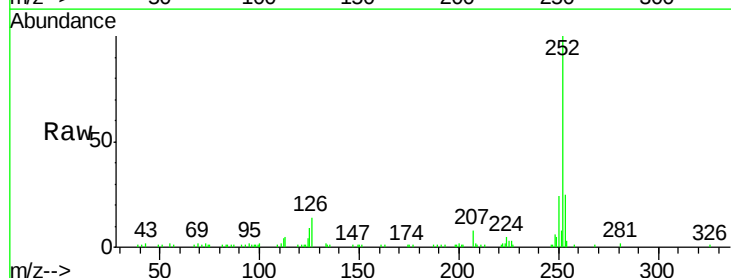
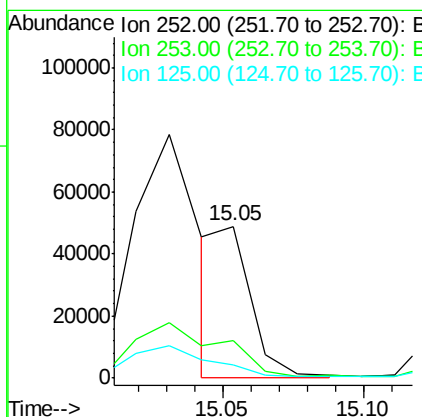
Manual Integrations
APPROVED

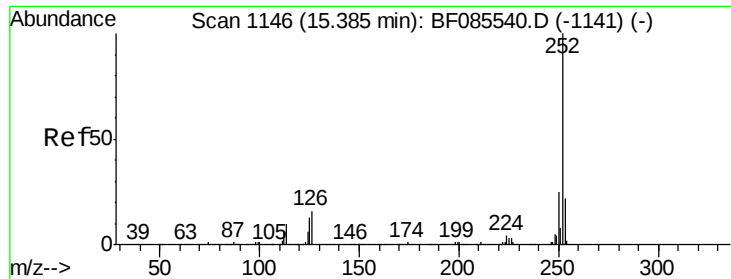
mohammad
3/21/2016 5:08:42 PM



#88
Benzo(k)fluoranthene
Concen: 3.07 ng m
RT: 15.05 min Scan# 1117
Delta R.T. -0.01 min
Lab File: BF085614.D
Acq: 20 Mar 2016 12:40

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.6	17.8	26.6
125	8.9	7.7	11.5





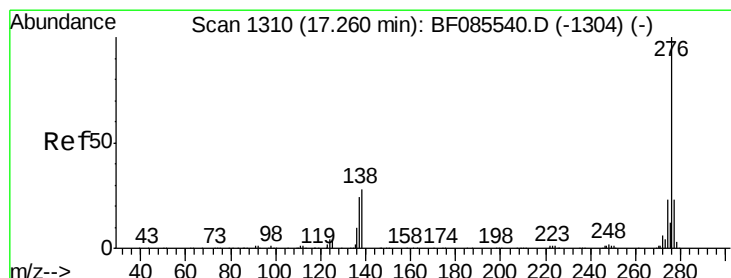
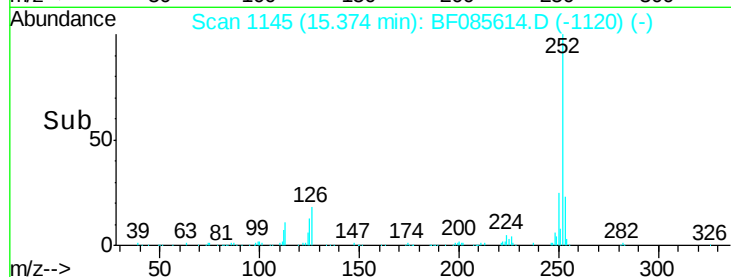
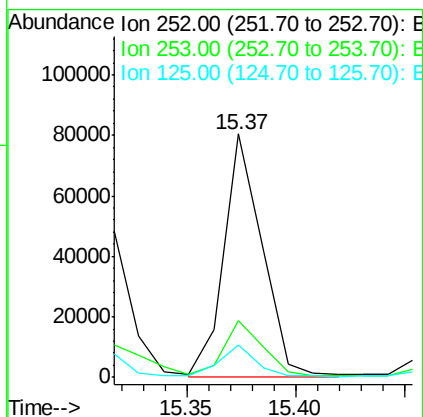
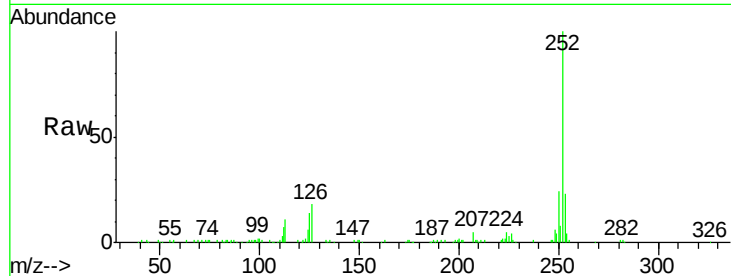
#89
Benzo(a)pyrene
Concen: 7.20 ng
RT: 15.37 min Scan# 1145
Delta R.T. -0.01 min
Lab File: BF085614.D
Acq: 20 Mar 2016 12:40

Instrument :
BNA_F
ClientSampleId :
AOU2-SB15(7-9)DL

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.4	17.4	26.0
125	13.5	10.3	15.5

Manual Integrations
APPROVED

mohammad
3/21/2016 5:08:42 PM



#91
Benzo(g,h,i)perylene
Concen: 3.47 ng
RT: 17.25 min Scan# 1309
Delta R.T. -0.01 min
Lab File: BF085614.D
Acq: 20 Mar 2016 12:40

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.6	18.8	28.2
138	25.3	22.6	34.0

