

Data Path : Z:\HPCHEM1\BNA F\DATA\BF032417\
 Data File : BF093935.D
 Acq On : 25 Mar 2017 4:25
 Operator : SJ/MA
 Sample : I2364-03 2X
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 WC-COMP-12

Manual Integrations
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Quant Time: Mar 25 05:19:26 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032217.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Mar 23 02:02:22 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.96	152	179105	20.00	ng	-0.03
21) Naphthalene-d8	7.47	136	704207	20.00	ng	-0.02
38) Acenaphthene-d10	9.61	164	281329	20.00	ng	-0.03
63) Phenanthrene-d10	11.43	188	402660	20.00	ng	-0.03
75) Chrysene-d12	14.70	240	291376	20.00	ng	-0.02
86) Perylene-d12	16.33	264	249967	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	4.48	112	77628	7.32	ng	-0.02
7) Phenol-d6	5.55	99	507515	38.69	ng	-0.02
23) Nitrobenzene-d5	6.60	82	405138	32.83	ng	-0.04
41) 2,4,6-Tribromophenol	0.00	330	0	0.00	ng	
44) 2-Fluorobiphenyl	8.79	172	752953	40.82	ng	-0.04
78) Terphenyl-d14	13.41	244	428024	32.93	ng	-0.03
Target Compounds						Qvalue
31) Naphthalene	7.49	128	1422492	42.01	ng	99
37) 2-Methylnaphthalene	8.33	142	762794	33.79	ng	99
45) 1,1'-Biphenyl	8.90	154	194274	8.56	ng	96
48) Acenaphthylene	9.43	152	657320	22.27	ng	99
49) Dimethylphthalate	9.28	163	66179	3.31	ng	99
51) Acenaphthene	9.65	154	142669	8.28	ng	98
54) Dibenzofuran	9.86	168	590759	25.19	ng	98
57) Fluorene	10.29	166	725313	37.30	ng	99
70) Phenanthrene	11.47	178	2203724	98.38	ng	100
71) Anthracene	11.53	178	1092614	47.38	ng	99
72) Carbazole	11.73	167	250554	10.59	ng	98
74) Fluoranthene	12.94	202	1982295	86.43	ng	99
77) Pyrene	13.22	202	2041440	96.54	ng	100
80) Benzo(a)anthracene	14.69	228	1017140m	59.86	ng	
82) Chrysene	14.73	228	895542m	56.80	ng	
85) Indeno(1,2,3-cd)pyrene	17.72	276	283333	20.75	ng	96
87) Benzo(b)fluoranthene	15.92	252	864483m	56.42	ng	
88) Benzo(k)fluoranthene	15.94	252	244556m	16.31	ng	
89) Benzo(a)pyrene	16.27	252	653993	46.35	ng	98
90) Dibenz(a,h)anthracene	17.73	278	78561	6.57	ng	# 83
91) Benzo(g,h,i)perylene	18.12	276	267356	22.20	ng	99

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

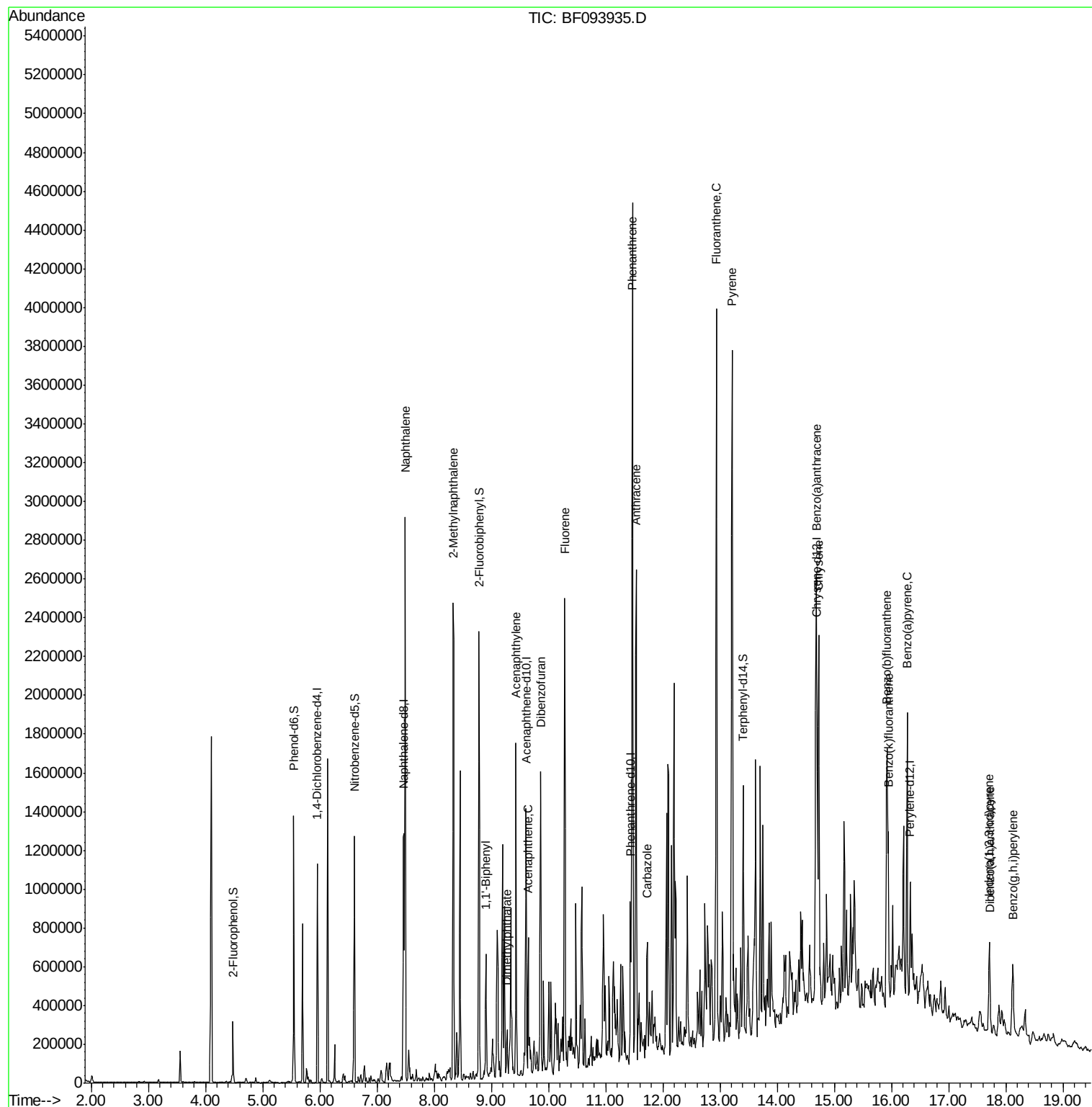
Data Path : Z:\HPCHEM1\BNA F\DATA\BF032417\
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ALS Vial : 25 Sample Multiplier: 1

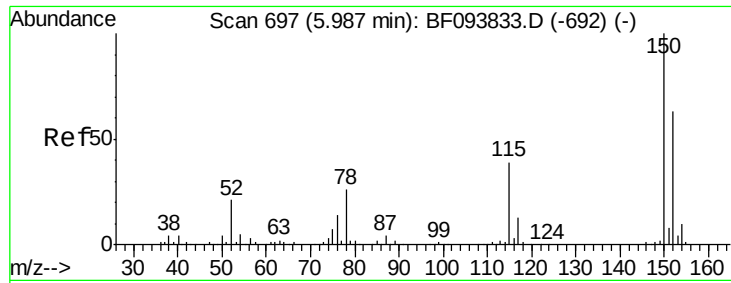
Instrument :
BNA_F
ClientSampled :
WC-COMP-12

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#1

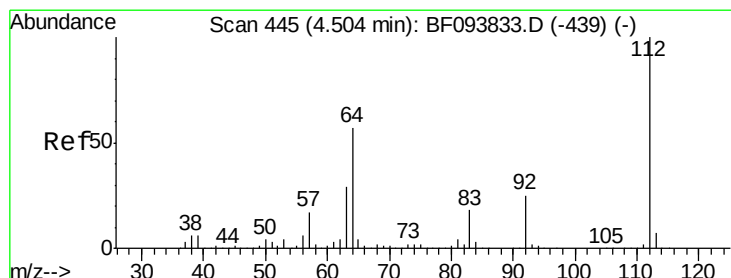
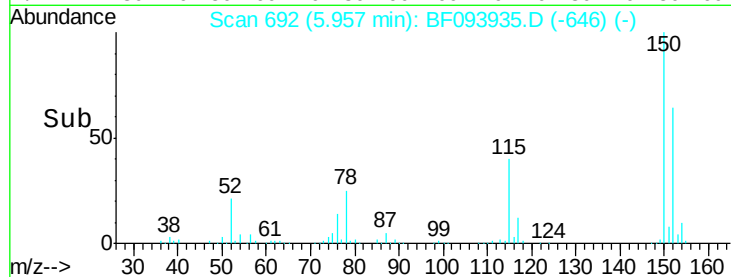
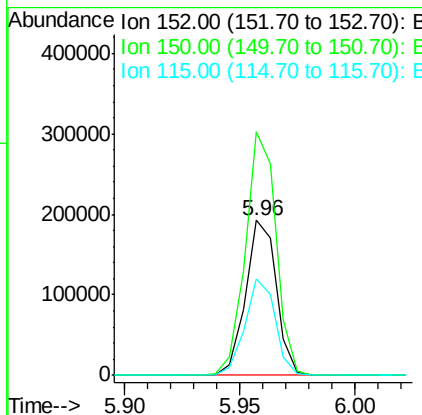
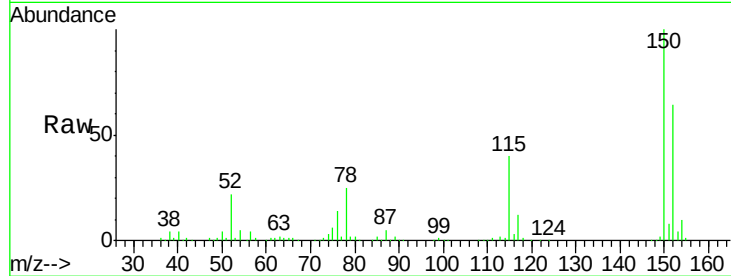
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 5.96 min Scan# 692
Delta R.T. -0.03 min
Lab File: BF093935.D
Acq: 25 Mar 2017 4:25

Instrument :
BNA_F
ClientSampleId :
WC-COMP-12

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.2	126.2	189.2
115	62.3	52.2	78.2

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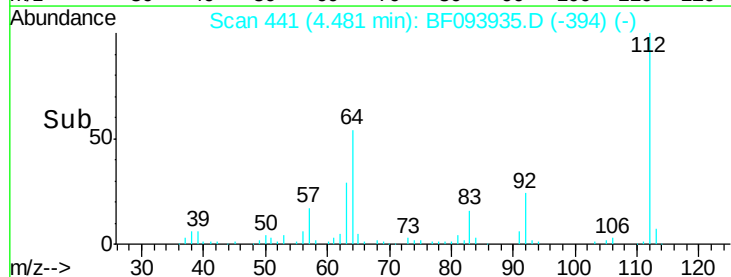
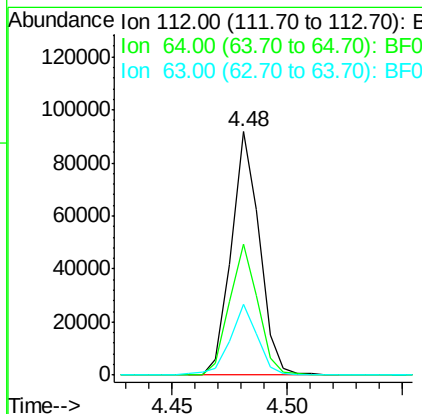
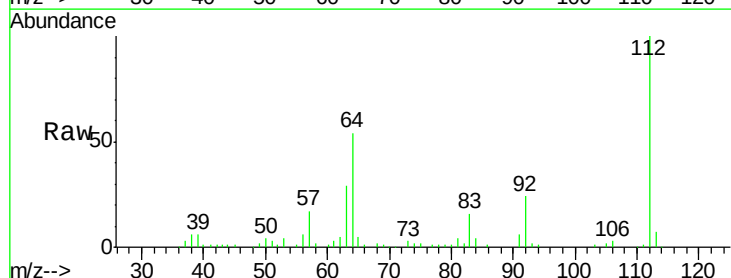
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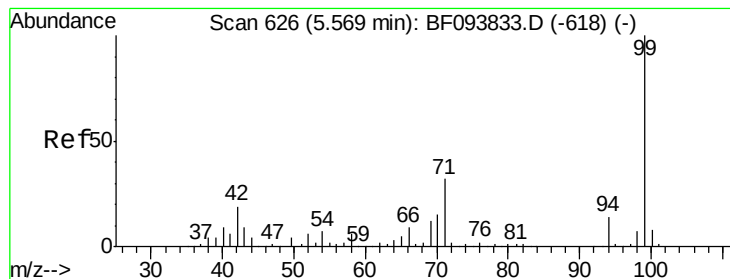


#5

2-Fluorophenol
Concen: 7.32 ng
RT: 4.48 min Scan# 441
Delta R.T. -0.02 min
Lab File: BF093935.D
Acq: 25 Mar 2017 4:25

Tgt Ion	Ratio	Lower	Upper
112	100		
64	54.1	46.0	69.0
63	29.3	23.4	35.0





#7

Phenol-d6

Concen: 38.69 ng

RT: 5.55 min Scan# 622

Delta R.T. -0.02 min

Lab File: BF093935.D

Acq: 25 Mar 2017 4:25

Instrument :

BNA_F

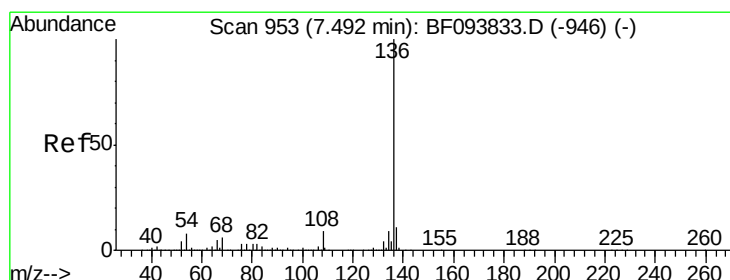
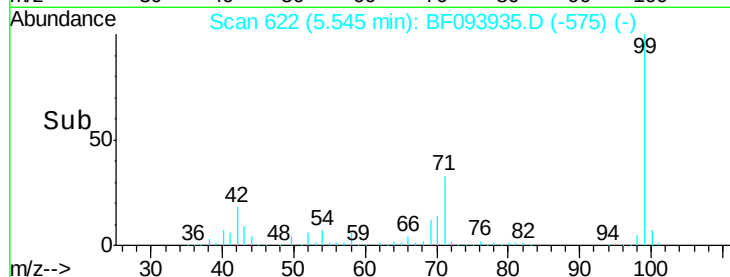
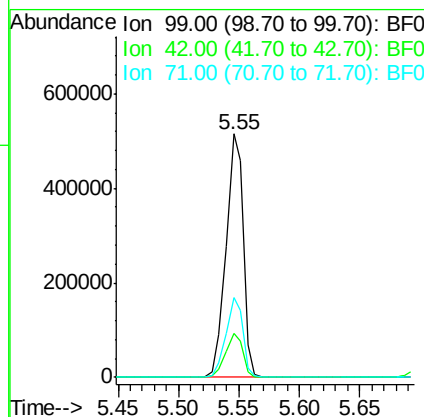
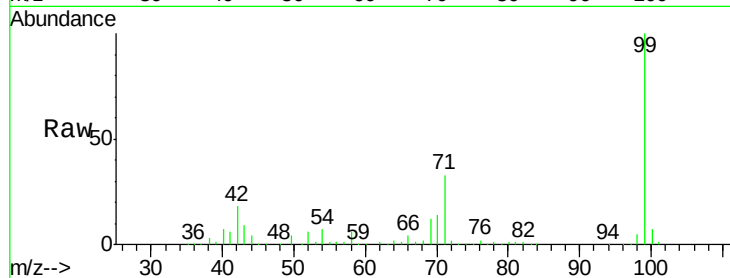
ClientSampleId :

WC-COMP-12

Tot Ion	Ion	Ratio	Resp	Lower	Upper
99	100		507515		
42	17.9	13.5	20.3		
71	32.7	24.5	36.7		

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#21

Naphthalene-d8

Concen: 20.00 ng

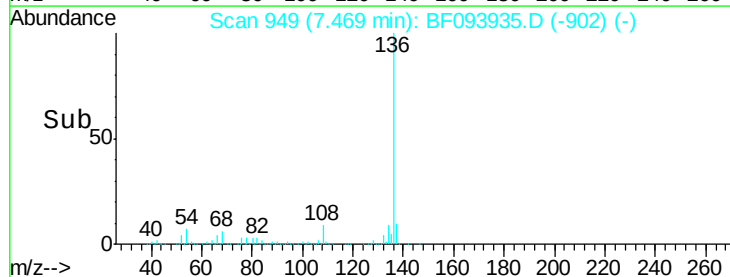
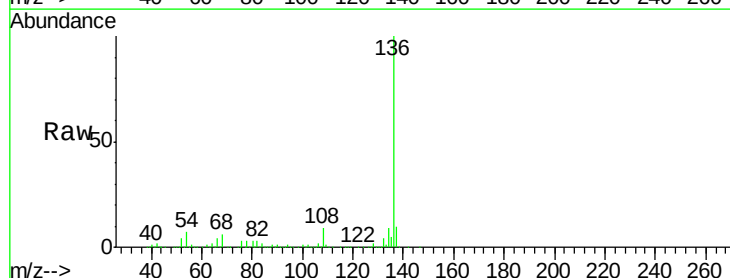
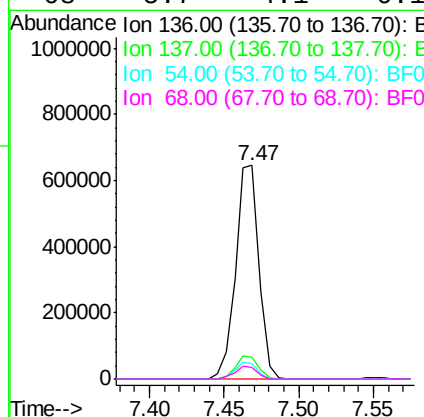
RT: 7.47 min Scan# 949

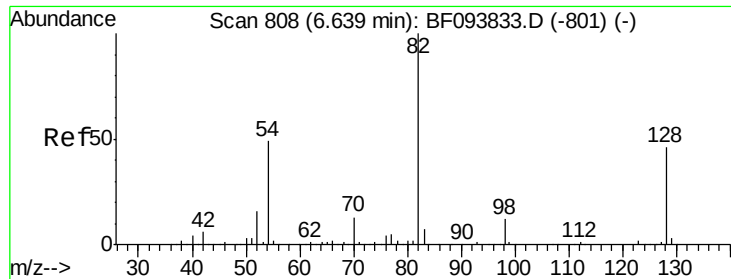
Delta R.T. -0.02 min

Lab File: BF093935.D

Acq: 25 Mar 2017 4:25

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
136	100		704207		
137	10.4	8.5	12.7		
54	7.2	4.9	7.3		
68	5.7	4.1	6.1		





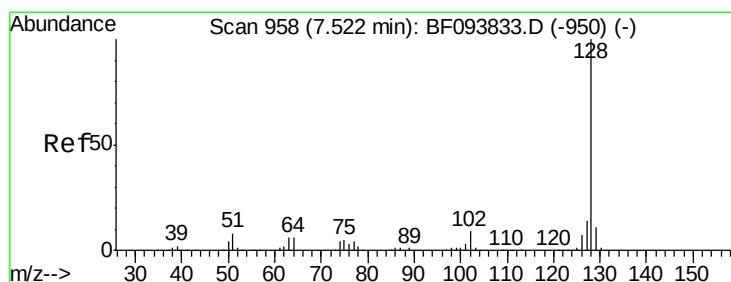
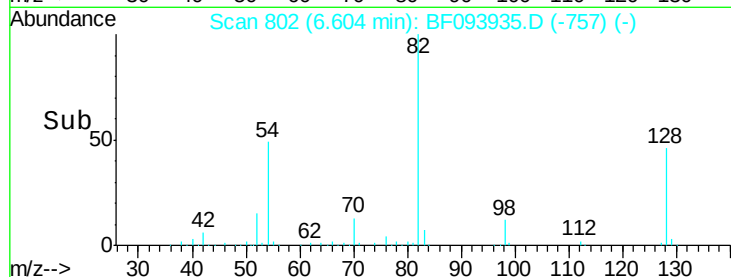
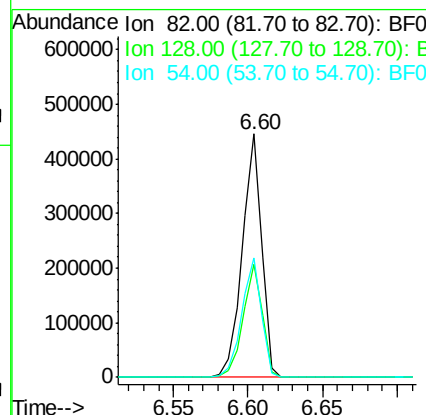
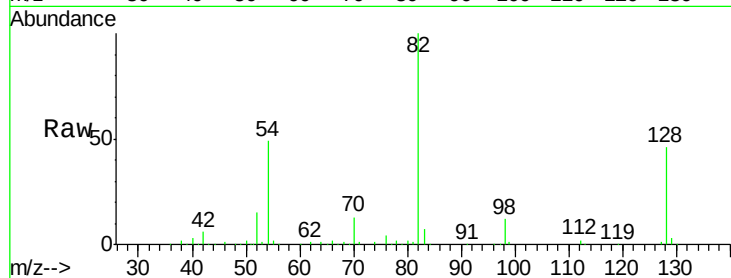
#23
 Nitrobenzene-d5
 Concen: 32.83 ng
 RT: 6.60 min Scan# 802
 Delta R.T. -0.04 min
 Lab File: BF093935.D
 Acq: 25 Mar 2017 4:25

Instrument :
 BNA_F
 ClientSampleId :
 WC-COMP-12

Tot Ion	82	Resp	405138
Ion Ratio	100	Lower	Upper
128	46.4	34.0	51.0
54	49.1	42.2	63.2

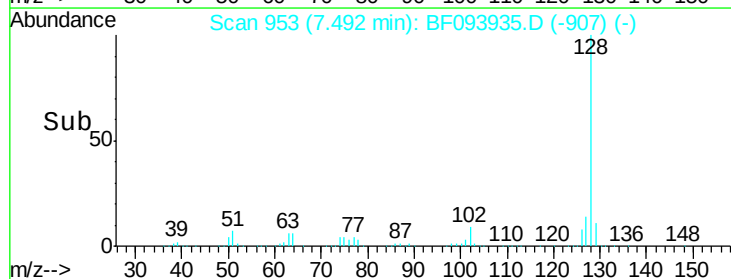
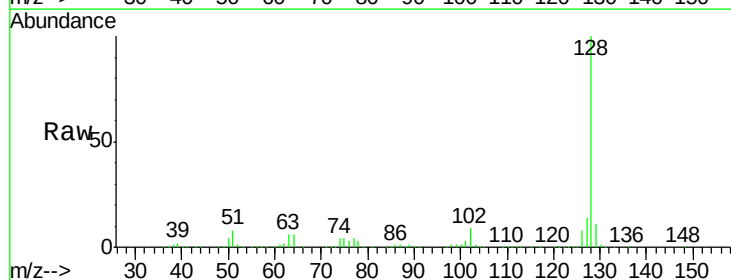
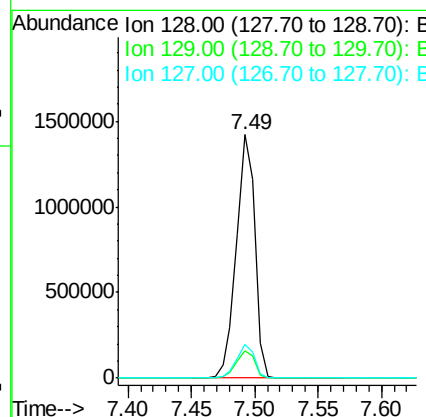
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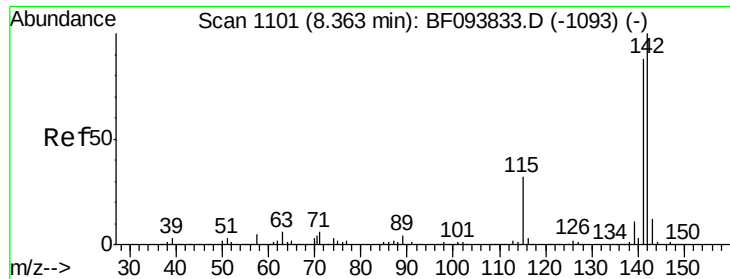
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#31
 Naphthalene
 Concen: 42.01 ng
 RT: 7.49 min Scan# 953
 Delta R.T. -0.03 min
 Lab File: BF093935.D
 Acq: 25 Mar 2017 4:25

Tgt Ion	128	Resp	1422492
Ion Ratio	100	Lower	Upper
129	11.4	9.0	13.6
127	13.9	10.8	16.2





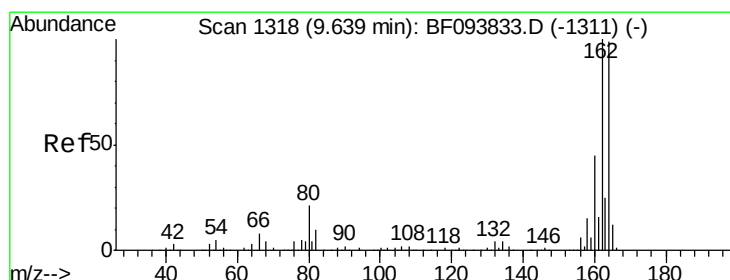
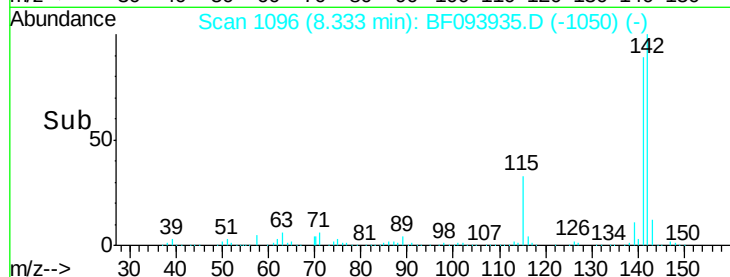
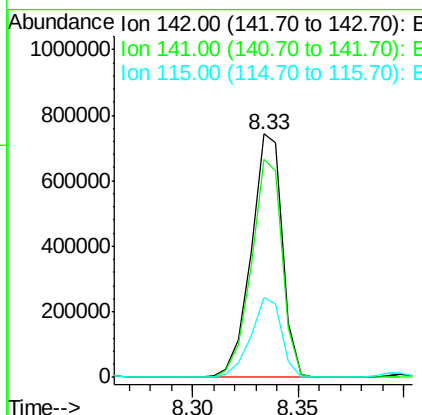
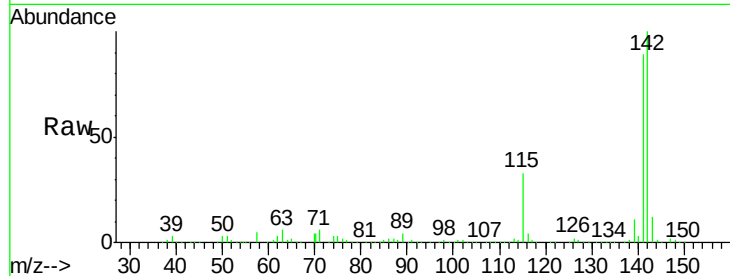
#37
2-Methylnaphthalene
Concen: 33.79 ng
RT: 8.33 min Scan# 1096
Delta R.T. -0.03 min
Lab File: BF093935.D
Acq: 25 Mar 2017 4:25

Instrument :
BNA_F
ClientSampleId :
WC-COMP-12

Tot Ion	Ratio	Lower	Upper
142	100		
141	89.4	71.3	106.9
115	33.0	27.1	40.7

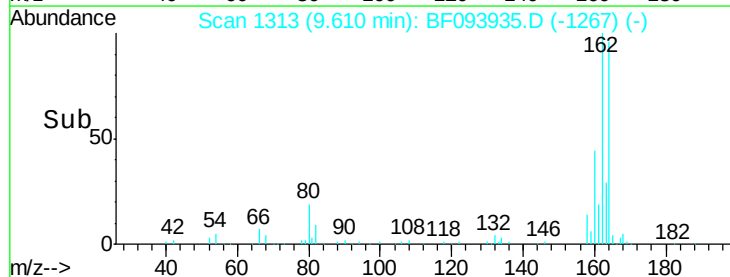
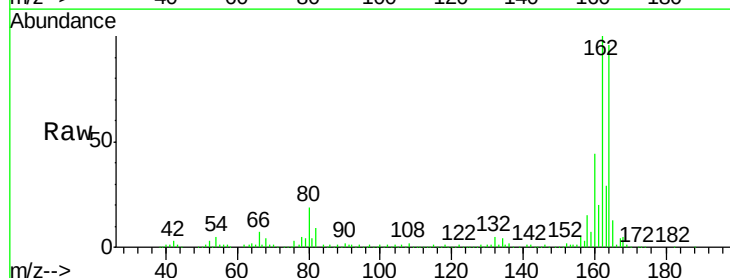
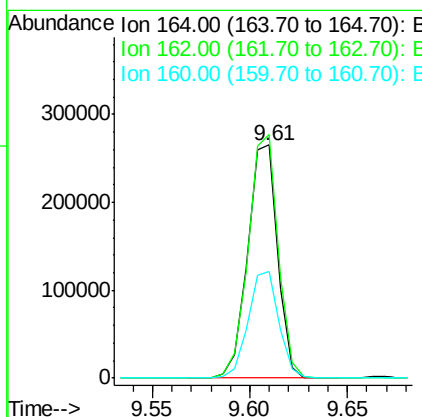
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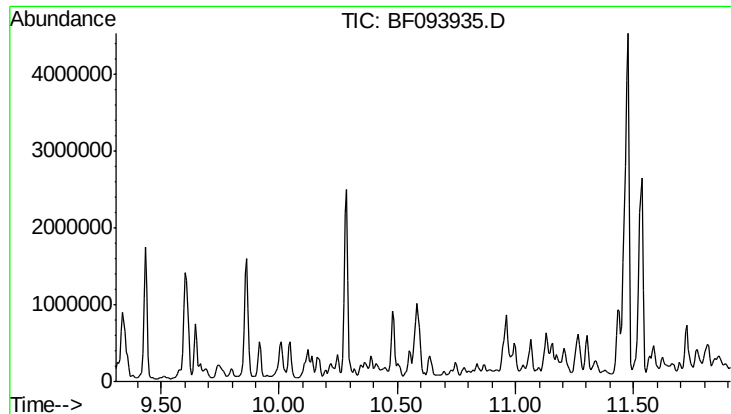
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.61 min Scan# 1313
Delta R.T. -0.03 min
Lab File: BF093935.D
Acq: 25 Mar 2017 4:25

Tgt Ion	Ratio	Lower	Upper
164	100		
162	104.5	82.6	123.8
160	46.0	36.2	54.2





#41
2,4,6-Tribromophenol
Concen: 0.00 ng
Expected RT: 10.61 min

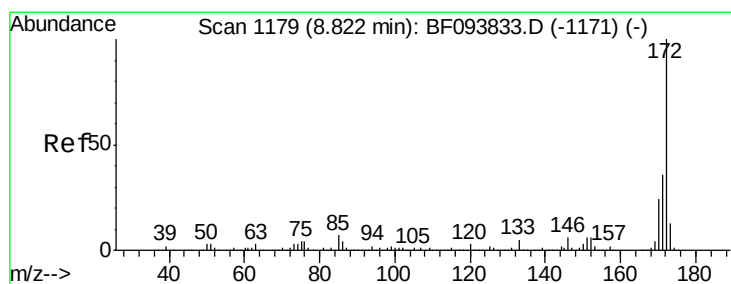
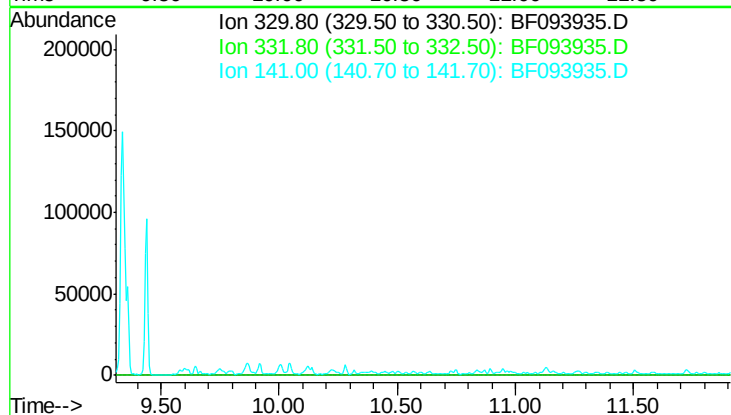
Lab File: BF093935.D
Acq: 25 Mar 2017 4:25

Instrument :
BNA_F
ClientSampleId :
WC-COMP-12

Tot Ion: 330
Sig Exp Ratio
330 100
332 95.8
141 39.3

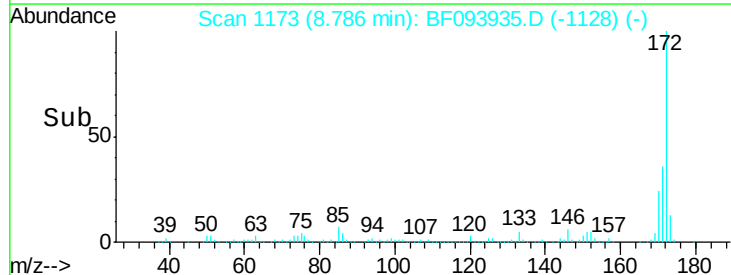
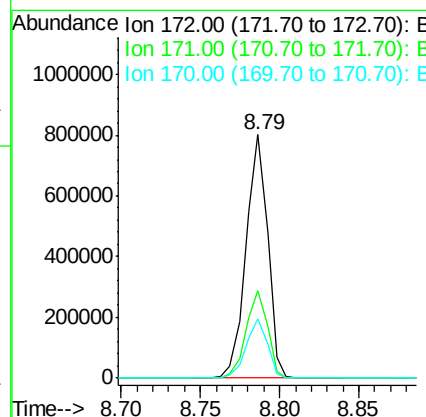
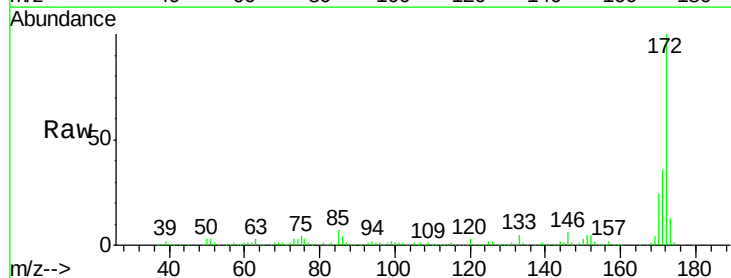
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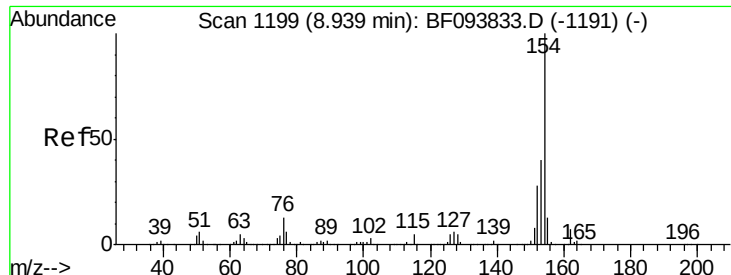
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#44
2-Fluorobiphenyl
Concen: 40.82 ng
RT: 8.79 min Scan# 1173
Delta R.T. -0.04 min
Lab File: BF093935.D
Acq: 25 Mar 2017 4:25

Tgt Ion: 172 Resp: 752953
Ion Ratio Lower Upper
172 100
171 36.2 29.6 44.4
170 24.2 19.8 29.8





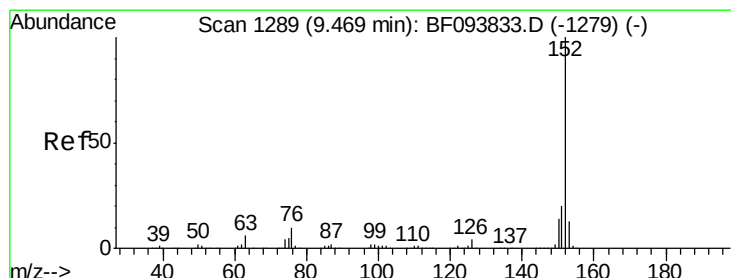
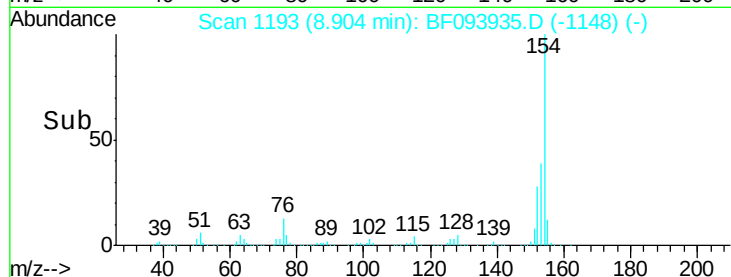
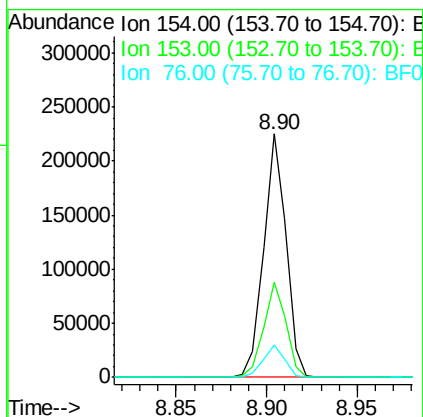
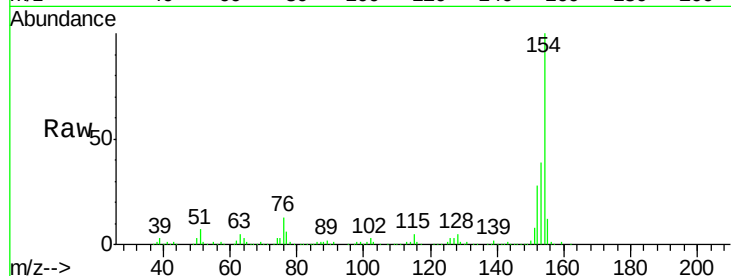
#45
 1,1'-Biphenyl
 Concen: 8.56 ng
 RT: 8.90 min Scan# 1193
 Delta R.T. -0.04 min
 Lab File: BF093935.D
 Acq: 25 Mar 2017 4:25

Instrument :
 BNA_F
 ClientSampleId :
 WC-COMP-12

Tot Ion:	154	Resp:	194274
Ion Ratio	Lower	Upper	
154	100		
153	39.2	21.2	61.2
76	13.1	0.0	29.9

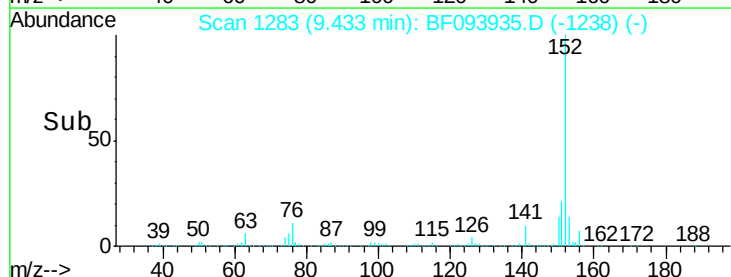
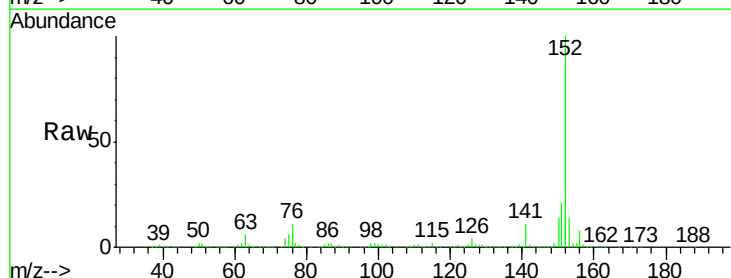
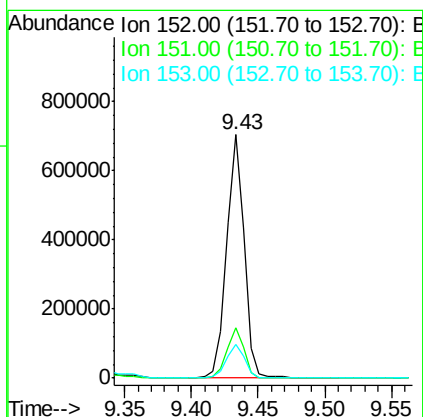
Manual Integrations
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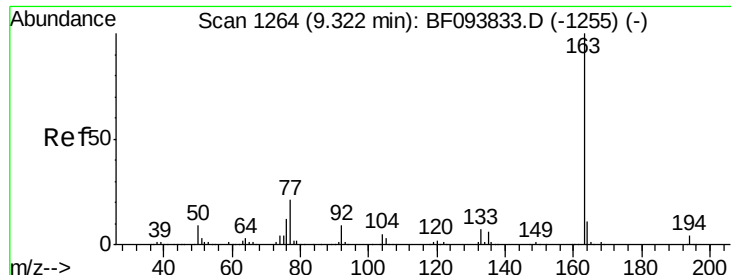
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#48
 Acenaphthylene
 Concen: 22.27 ng
 RT: 9.43 min Scan# 1283
 Delta R.T. -0.04 min
 Lab File: BF093935.D
 Acq: 25 Mar 2017 4:25

Tgt Ion:	152	Resp:	657320
Ion Ratio	Lower	Upper	
152	100		
151	20.5	16.8	25.2
153	13.9	10.8	16.2





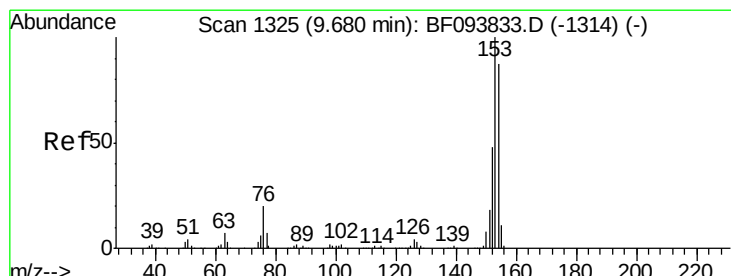
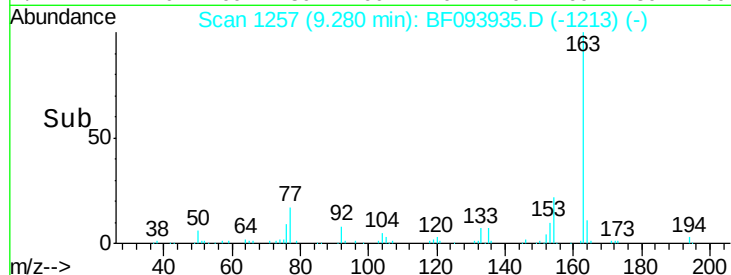
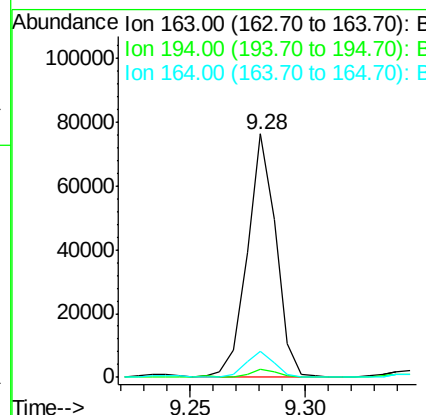
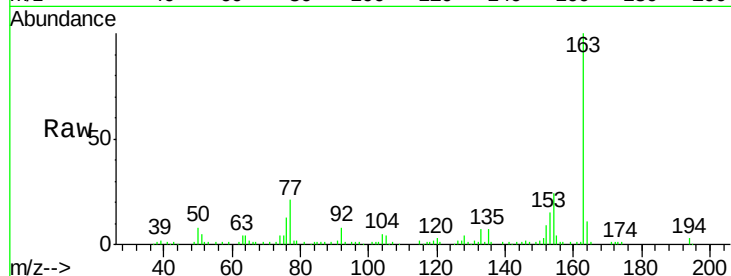
#49
Dimethylphthalate
Concen: 3.31 ng
RT: 9.28 min Scan# 1257
Delta R.T. -0.04 min
Lab File: BF093935.D
Acq: 25 Mar 2017 4:25

Instrument :
BNA_F
ClientSampleId :
WC-COMP-12

Tot Ion	Ratio	Resp	Lower	Upper
163	100	66179		
194	3.2		2.6	4.0
164	10.8		8.4	12.6

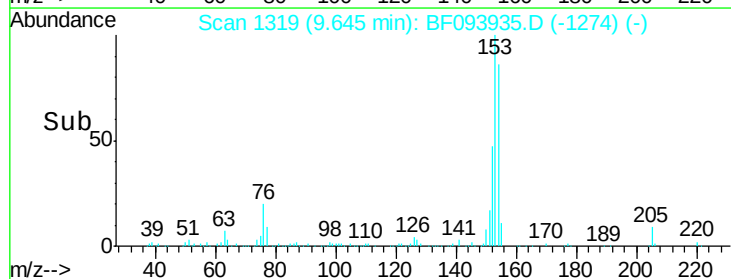
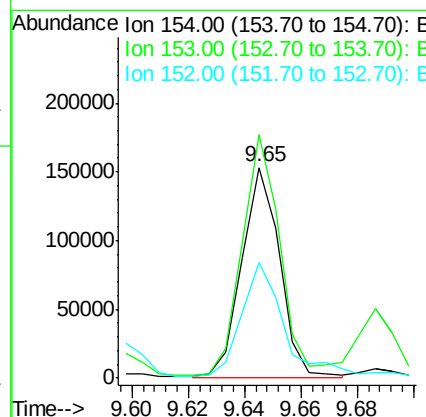
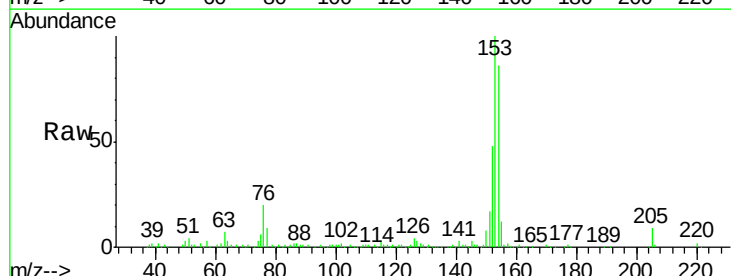
Manual Integrations
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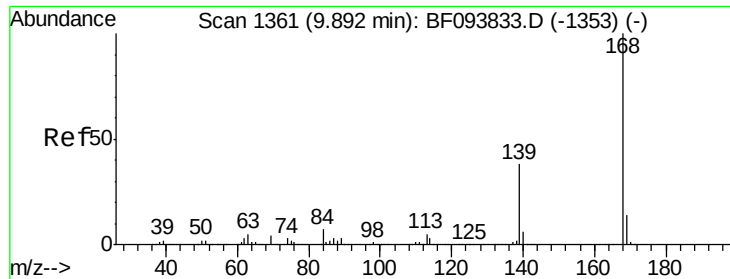
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#51
Acenaphthene
Concen: 8.28 ng
RT: 9.65 min Scan# 1319
Delta R.T. -0.04 min
Lab File: BF093935.D
Acq: 25 Mar 2017 4:25

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	142669		
153	115.7		90.5	135.7
152	55.2		43.6	65.4





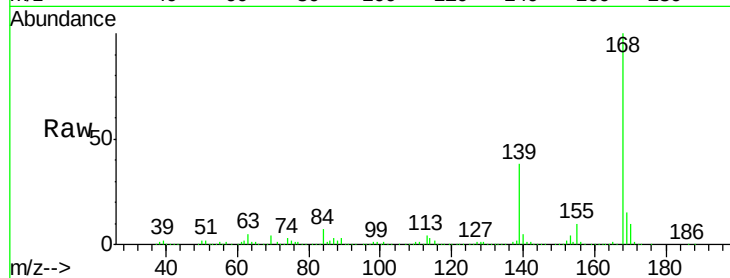
#54
Dibenzenofuran
Concen: 25.19 ng
RT: 9.86 min Scan# 1356
Delta R.T. -0.03 min
Lab File: BF093935.D
Acq: 25 Mar 2017 4:25

Instrument :
BNA_F
ClientSampleId :
WC-COMP-12

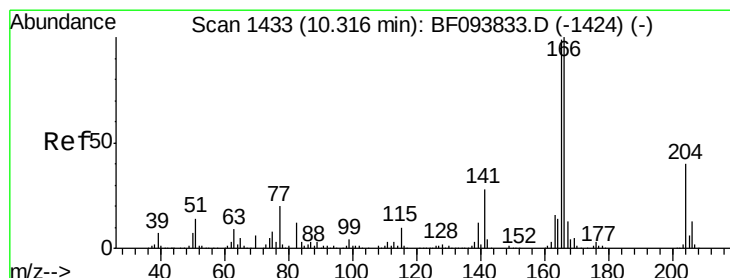
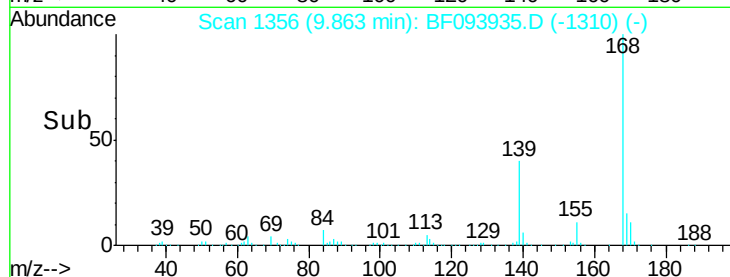
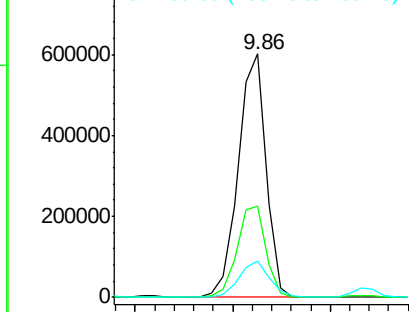
Tot Ion	Ratio	Lower	Upper
168	100		
139	37.5	30.6	45.8
169	14.7	10.8	16.2

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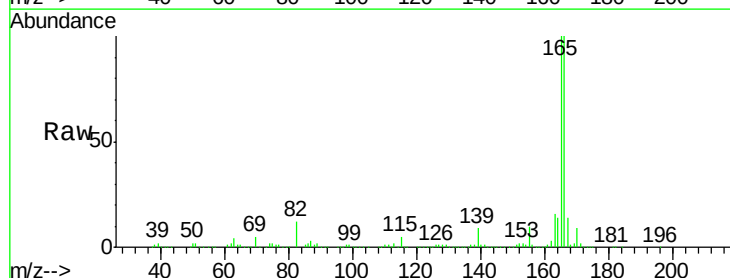


Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E

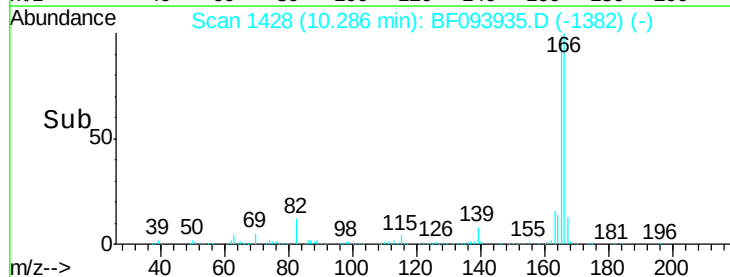
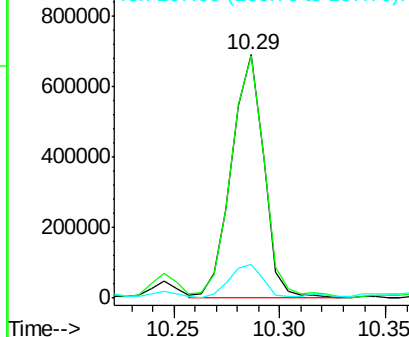


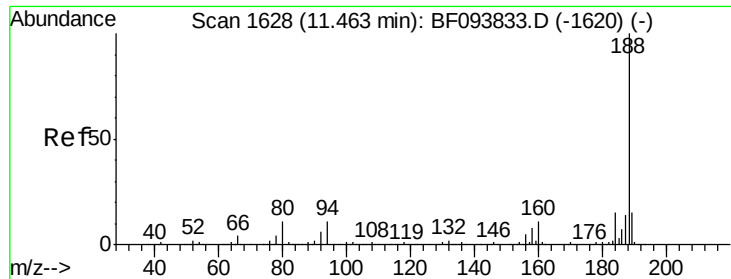
#57
Fluorene
Concen: 37.30 ng
RT: 10.29 min Scan# 1428
Delta R.T. -0.03 min
Lab File: BF093935.D
Acq: 25 Mar 2017 4:25

Tgt Ion	Ratio	Lower	Upper
166	100		
165	99.6	78.8	118.2
167	13.7	10.6	16.0



Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E





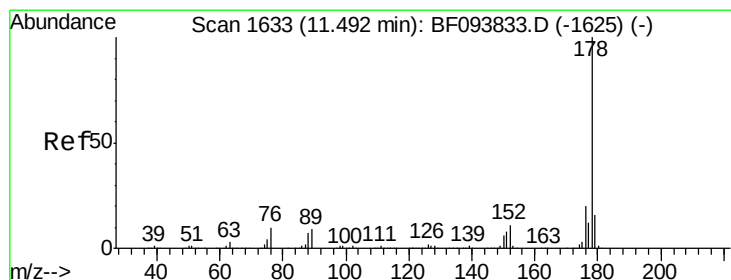
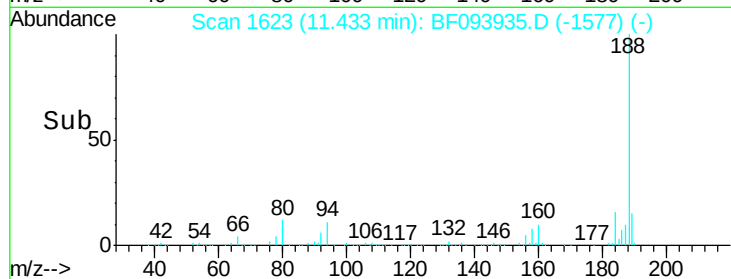
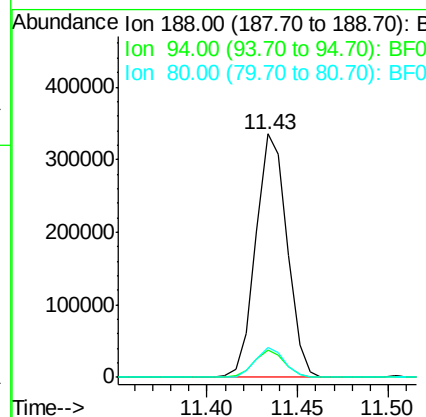
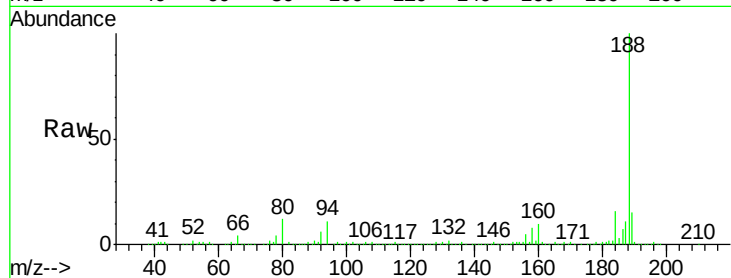
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.43 min Scan# 1623
Delta R.T. -0.03 min
Lab File: BF093935.D
Acq: 25 Mar 2017 4:25

Instrument :
BNA_F
ClientSampleId :
WC-COMP-12

Tot Ion	Ratio	Lower	Upper
188	100		
94	11.2	9.4	14.2
80	12.4	10.2	15.2

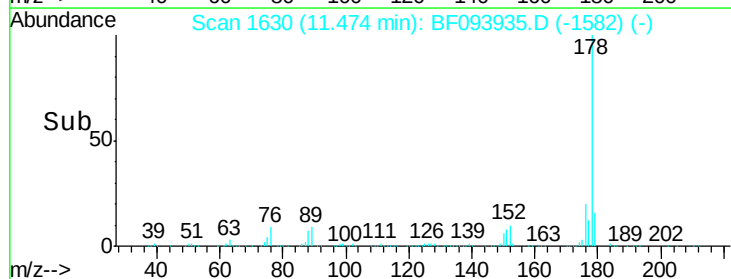
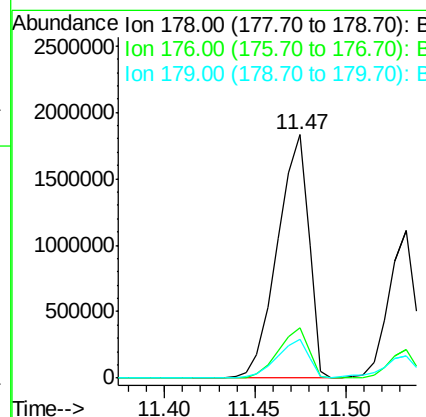
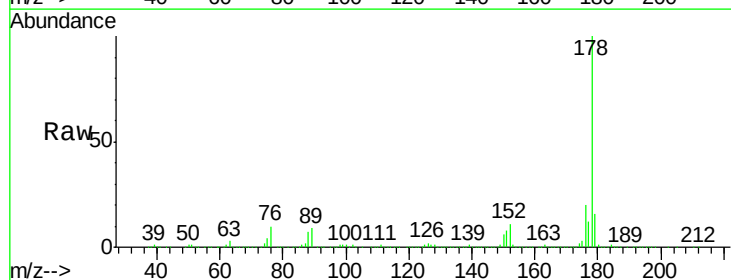
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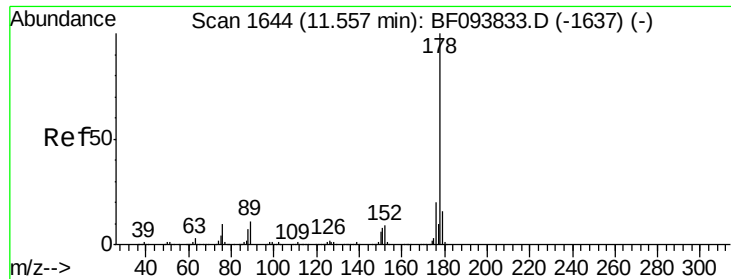
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#70
Phenanthrene
Concen: 98.38 ng
RT: 11.47 min Scan# 1630
Delta R.T. -0.02 min
Lab File: BF093935.D
Acq: 25 Mar 2017 4:25

Tgt Ion	Ratio	Lower	Upper
178	100		
176	20.4	16.2	24.4
179	16.0	12.6	19.0





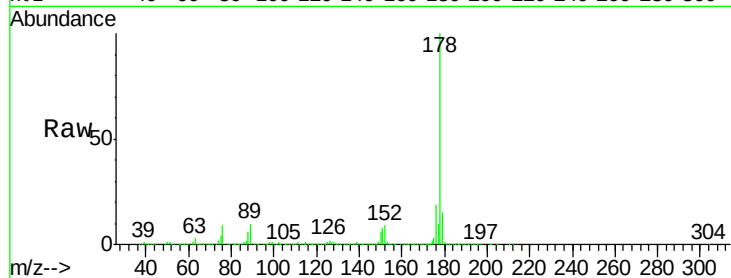
#71
 Anthracene
 Concen: 47.38 ng
 RT: 11.53 min Scan# 1640
 Delta R.T. -0.02 min
 Lab File: BF093935.D
 Acq: 25 Mar 2017 4:25

Instrument :
 BNA_F
 ClientSampleId :
 WC-COMP-12

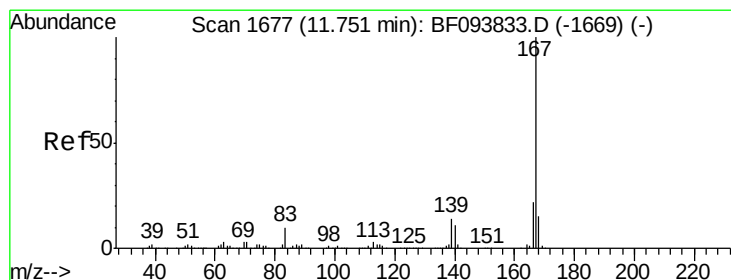
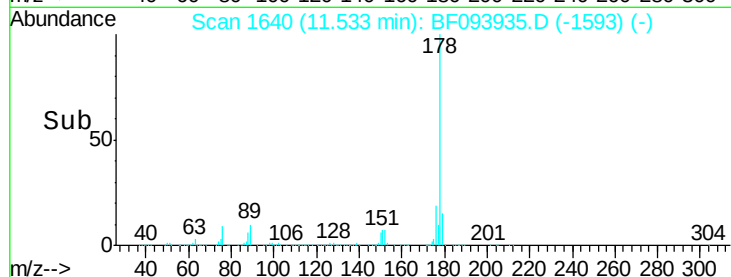
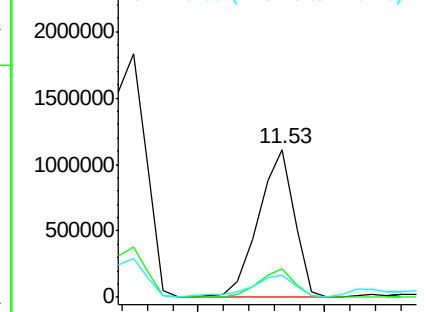
Tot Ion:178 Resp: 1092614
 Ion Ratio Lower Upper
 178 100
 176 19.0 15.8 23.8
 179 15.4 12.7 19.1

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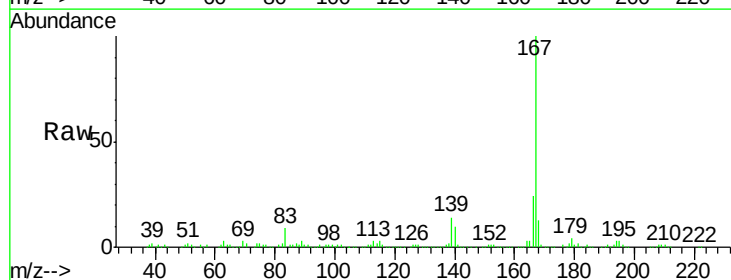


Abundance Ion 178.00 (177.70 to 178.70): E
 2500000
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

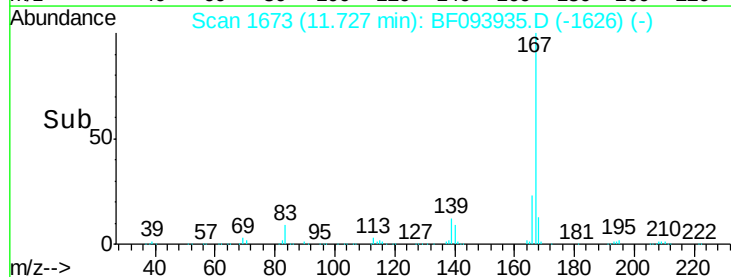
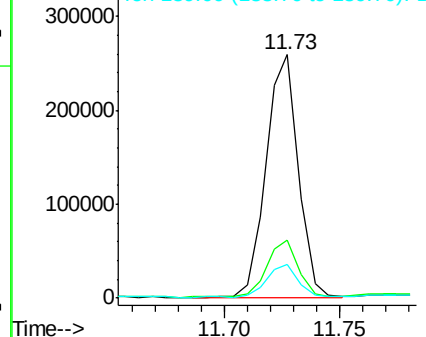


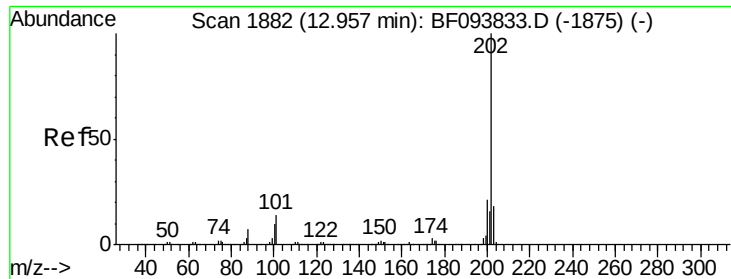
#72
 Carbazole
 Concen: 10.59 ng
 RT: 11.73 min Scan# 1673
 Delta R.T. -0.02 min
 Lab File: BF093935.D
 Acq: 25 Mar 2017 4:25

Tgt Ion:167 Resp: 250554
 Ion Ratio Lower Upper
 167 100
 166 23.9 18.1 27.1
 139 13.7 11.7 17.5



Abundance Ion 167.00 (166.70 to 167.70): E
 300000
 Ion 166.00 (165.70 to 166.70): E
 Ion 139.00 (138.70 to 139.70): E





#74

Fluoranthene

Concen: 86.43 ng

RT: 12.94 min Scan# 1879

Delta R.T. -0.02 min

Lab File: BF093935.D

Acq: 25 Mar 2017 4:25

Instrument :

BNA_F

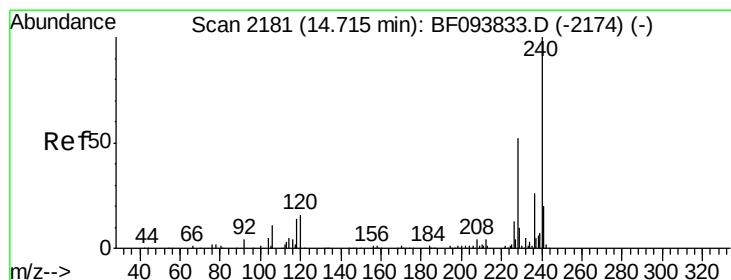
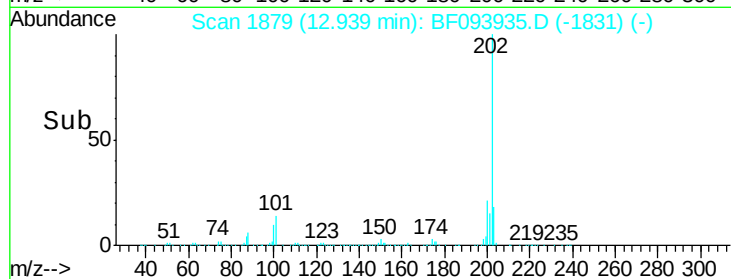
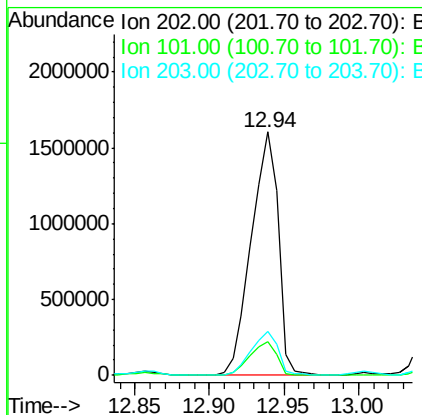
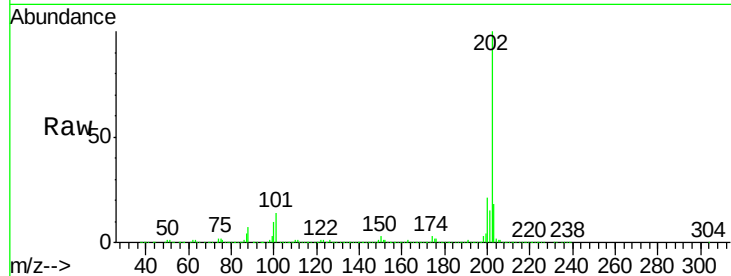
ClientSampleId :

WC-COMP-12

Tot Ion	Ion	Ratio	Resp	Lower	Upper
202	100		1982295		
101	13.9	0.0	33.2		
203	18.2	0.0	38.1		

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#75

Chrysene-d12

Concen: 20.00 ng

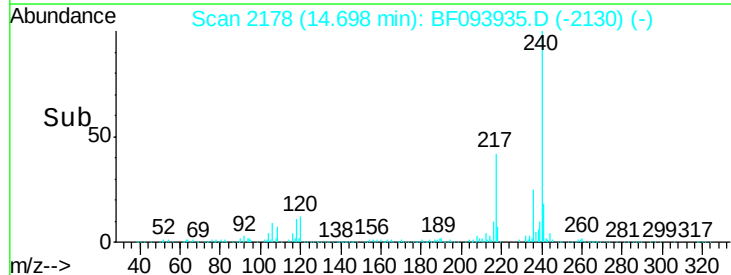
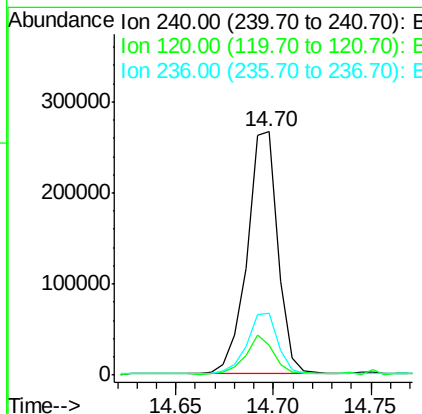
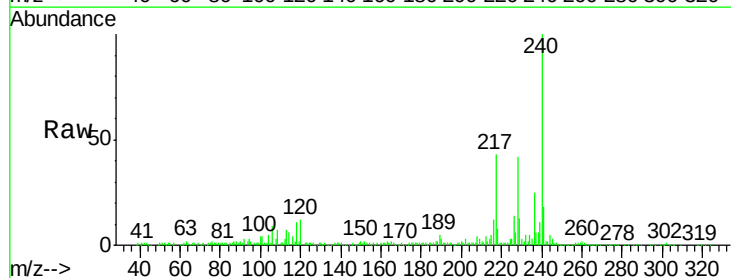
RT: 14.70 min Scan# 2178

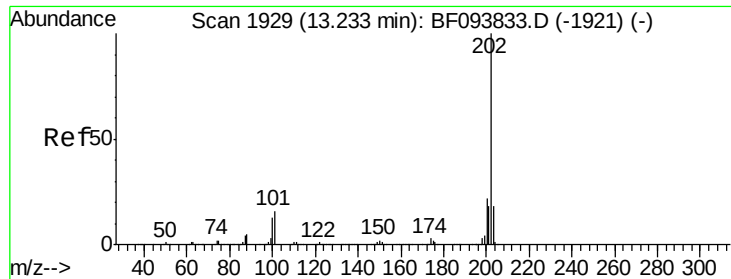
Delta R.T. -0.02 min

Lab File: BF093935.D

Acq: 25 Mar 2017 4:25

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
240	100		291376		
120	12.2	5.8	8.8#		
236	25.3	20.5	30.7		





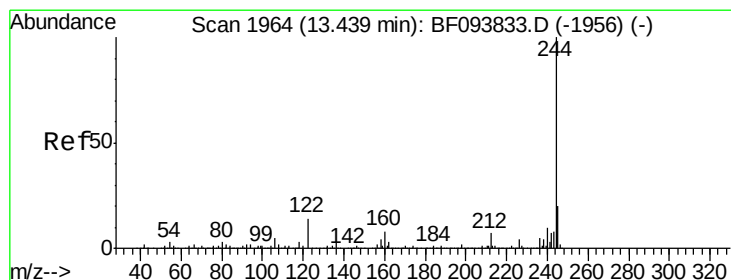
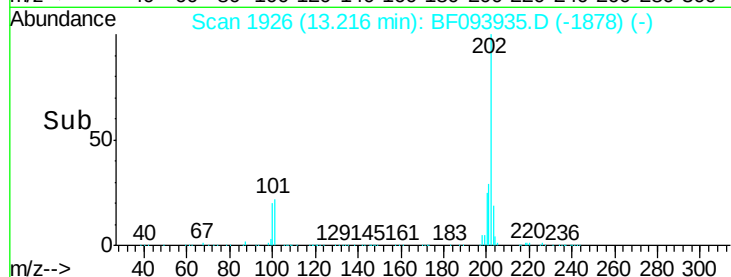
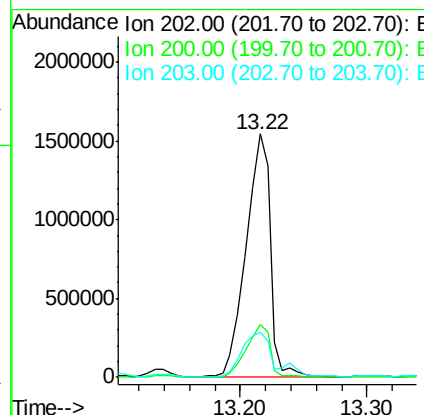
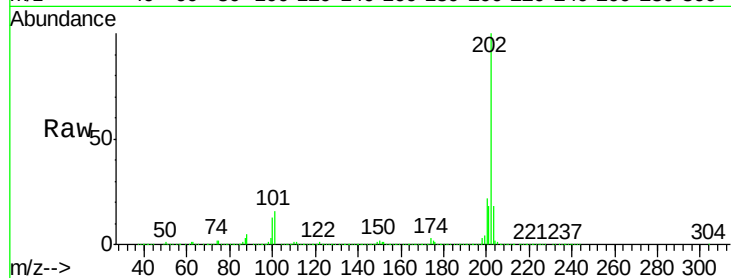
#77
Pvrene
Concen: 96.54 ng
RT: 13.22 min Scan# 1926
Delta R.T. -0.02 min
Lab File: BF093935.D
Acq: 25 Mar 2017 4:25

Instrument :
BNA_F
ClientSampleId :
WC-COMP-12

Tot Ion	Ratio	Lower	Upper
202	100		
200	21.9	17.6	26.4
203	18.3	14.4	21.6

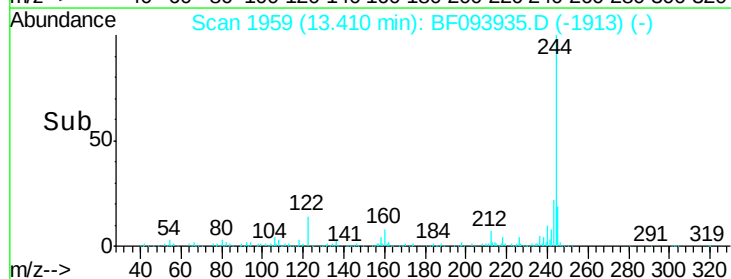
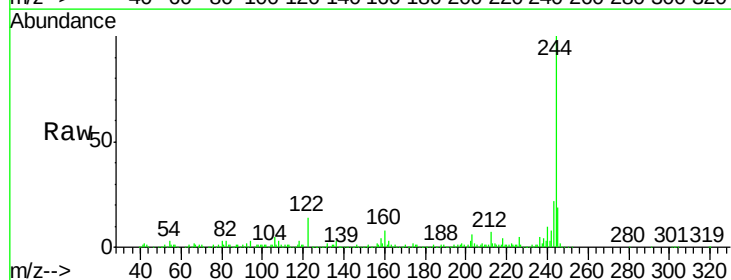
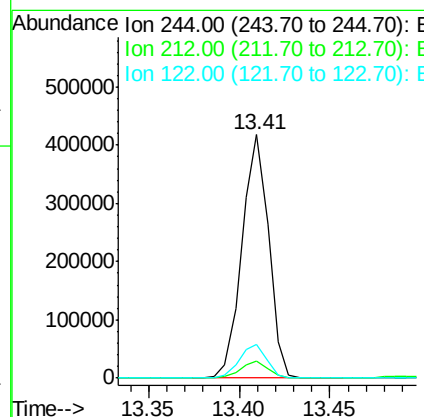
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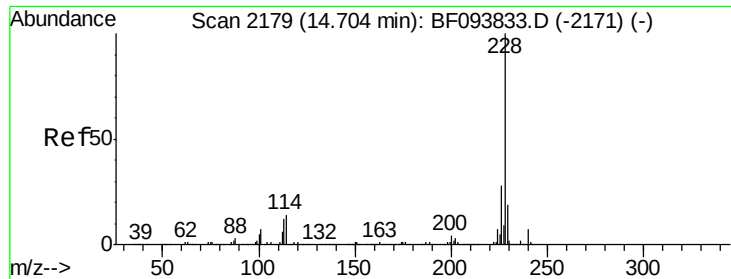
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#78
Terphenyl-d14
Concen: 32.93 ng
RT: 13.41 min Scan# 1959
Delta R.T. -0.03 min
Lab File: BF093935.D
Acq: 25 Mar 2017 4:25

Tgt Ion	Ratio	Lower	Upper
244	100		
212	7.2	6.0	9.0
122	14.1	10.3	15.5





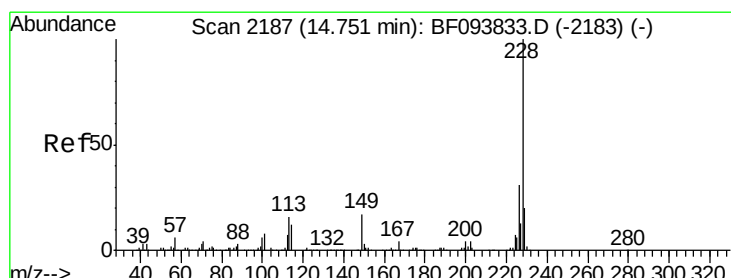
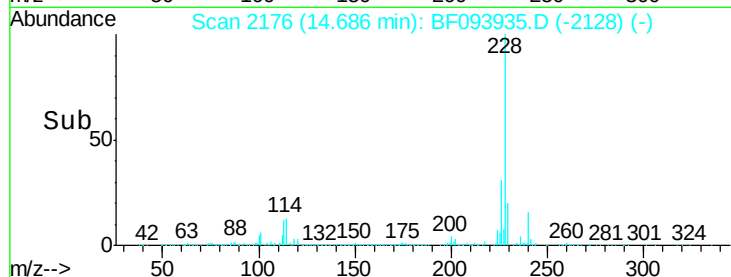
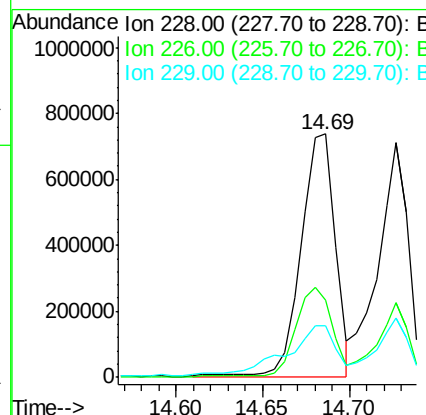
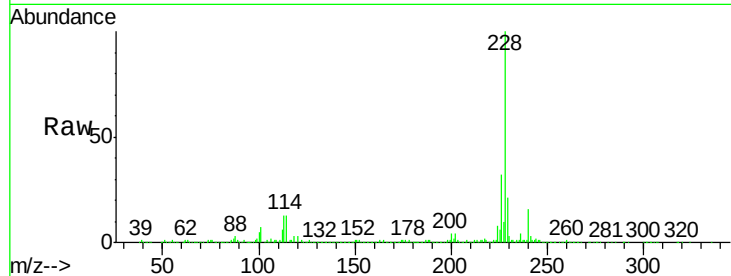
#80
Benzo(a)anthracene
Concen: 59.86 ng m
RT: 14.69 min Scan# 2176
Delta R.T. -0.02 min
Lab File: BF093935.D
Acq: 25 Mar 2017 4:25

Instrument :
BNA_F
ClientSampleId :
WC-COMP-12

Tot Ion	Ratio	Lower	Upper
228	100		
226	31.7	22.6	33.8
229	21.3	16.3	24.5

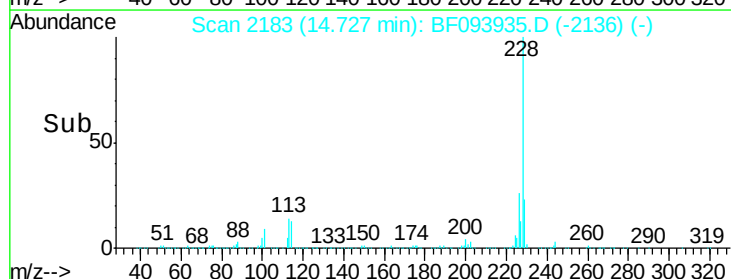
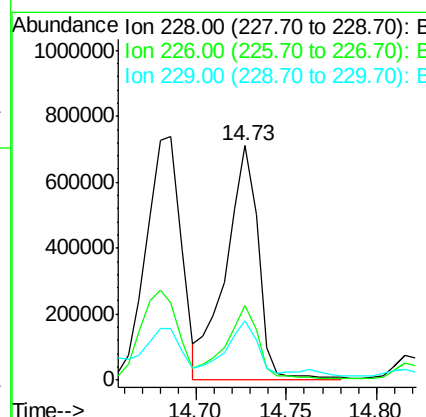
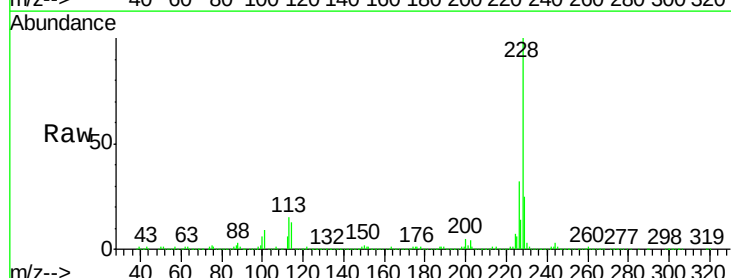
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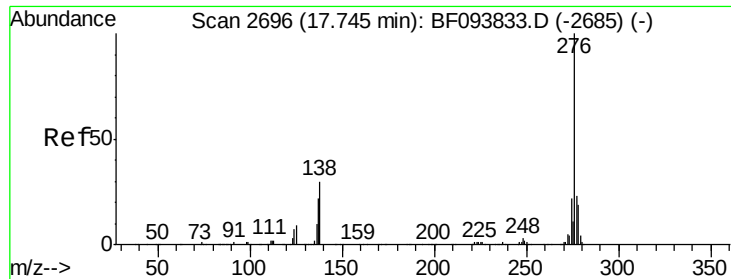
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#82
Chrysene
Concen: 56.80 ng m
RT: 14.73 min Scan# 2183
Delta R.T. -0.02 min
Lab File: BF093935.D
Acq: 25 Mar 2017 4:25

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.7	24.9	37.3
229	25.0	15.8	23.6#





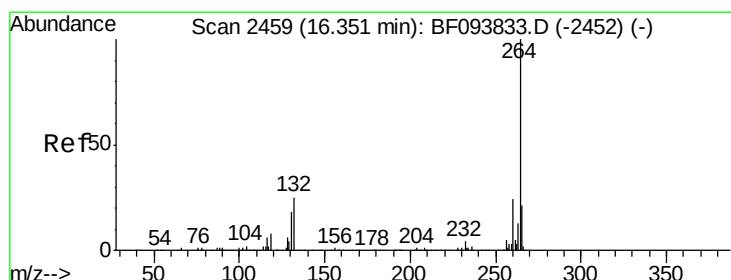
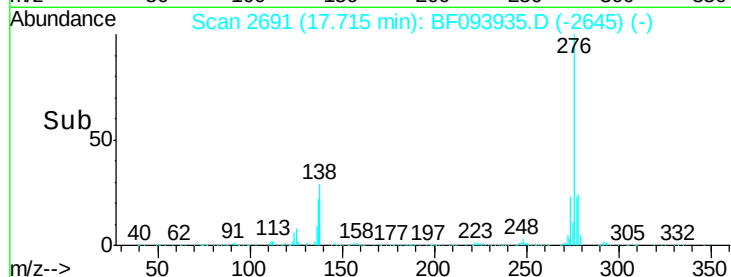
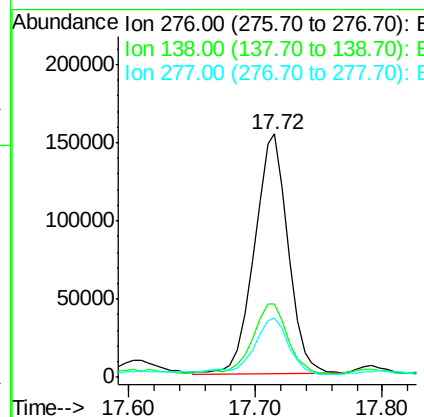
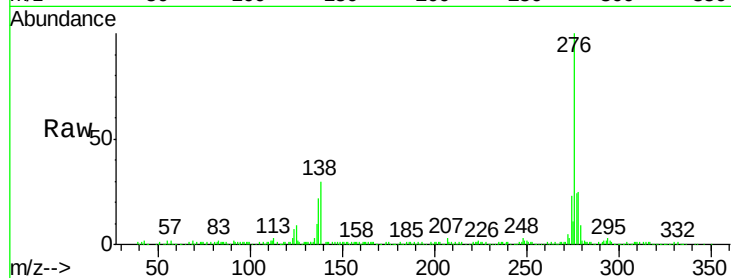
#85
Indeno(1,2,3-cd)pyrene
Concen: 20.75 ng
RT: 17.72 min Scan# 2691
Delta R.T. -0.03 min
Lab File: BF093935.D
Acq: 25 Mar 2017 4:25

Instrument :
BNA_F
ClientSampleId :
WC-COMP-12

Tot Ion	Ratio	Lower	Upper
276	100		
138	31.0	27.8	41.6
277	25.3	20.2	30.4

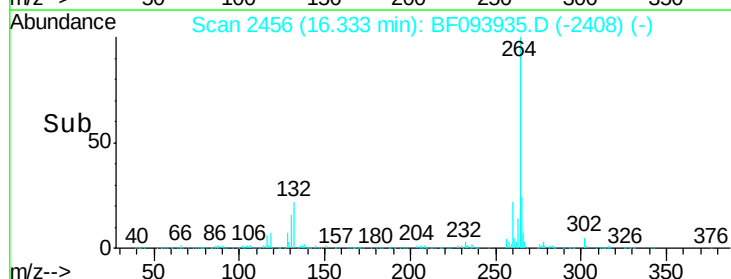
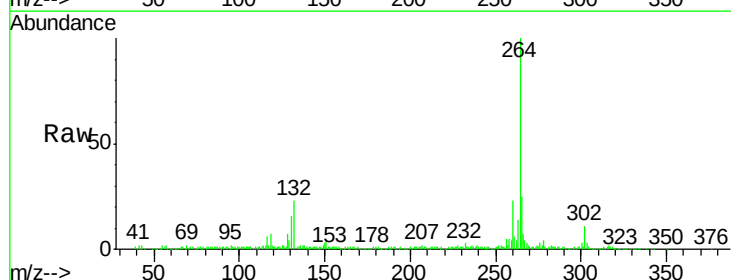
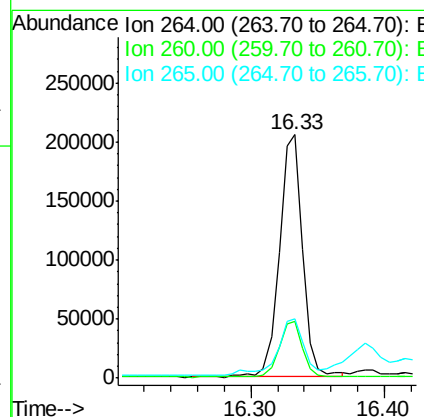
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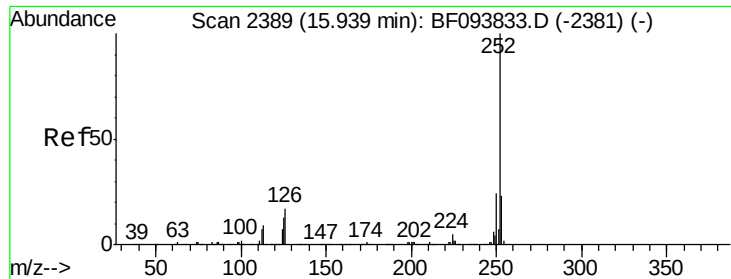
mohammad
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#86
Perylene-d12
Concen: 20.00 ng
RT: 16.33 min Scan# 2456
Delta R.T. -0.02 min
Lab File: BF093935.D
Acq: 25 Mar 2017 4:25

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.4	19.5	29.3
265	24.6	17.2	25.8





#87

Benzo(b)fluoranthene

Concen: 56.42 ng m

RT: 15.92 min Scan# 2386

Delta R.T. -0.02 min

Lab File: BF093935.D

Acq: 25 Mar 2017 4:25

Instrument :

BNA_F

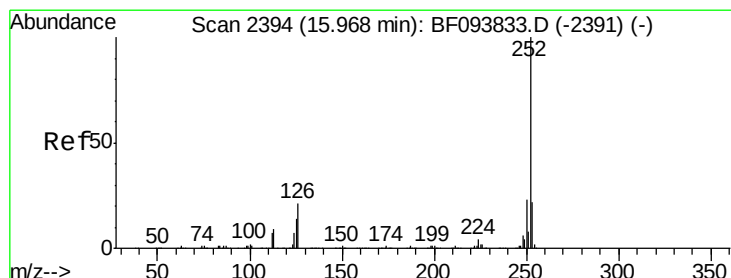
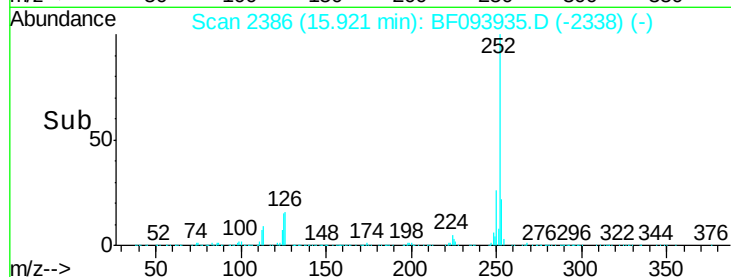
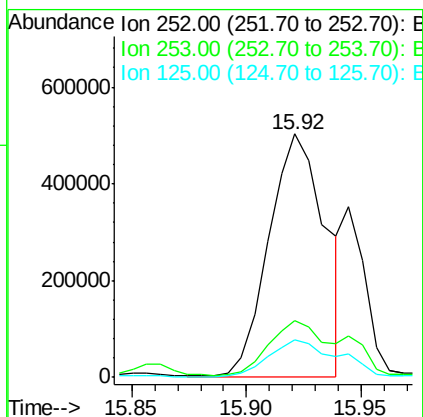
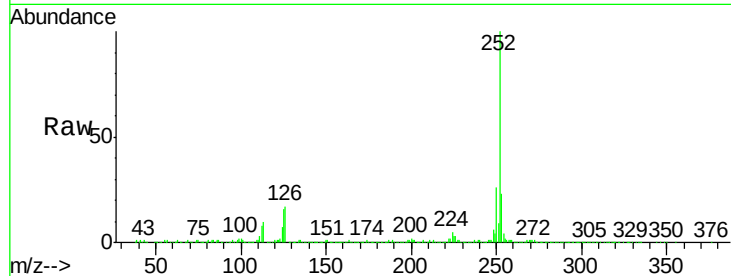
ClientSampleId :

WC-COMP-12

Tot Ion:	252	Resp:	864483
Ion Ratio	Lower	Upper	
252	100		
253	23.2	18.1	27.1
125	15.7	9.8	14.8#

Manual Integrations
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#88

Benzo(k)fluoranthene

Concen: 16.31 ng m

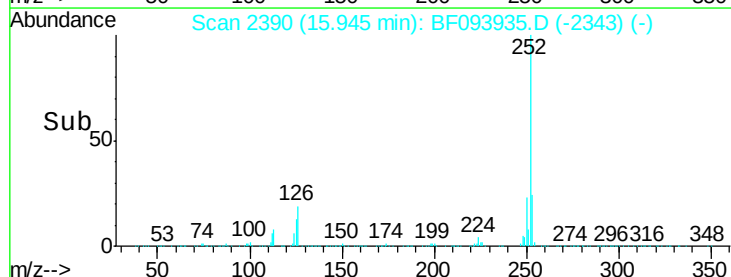
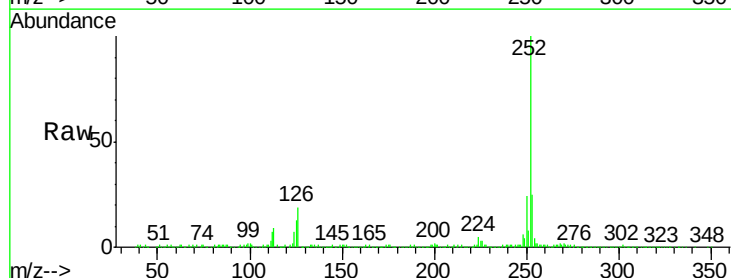
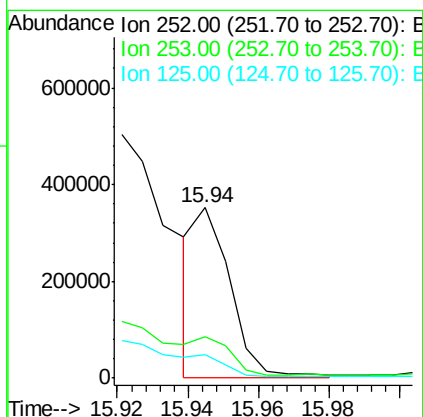
RT: 15.94 min Scan# 2390

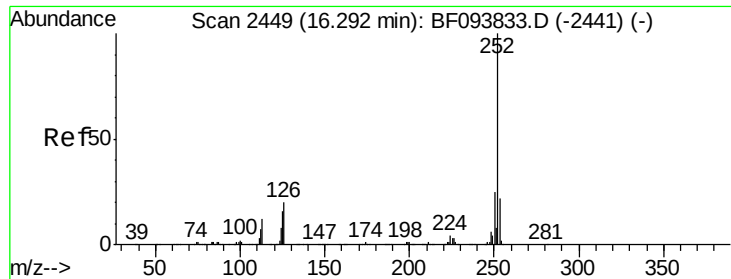
Delta R.T. -0.02 min

Lab File: BF093935.D

Acq: 25 Mar 2017 4:25

Tgt Ion:	252	Resp:	244556
Ion Ratio	Lower	Upper	
252	100		
253	24.6	18.4	27.6
125	13.5	13.1	19.7





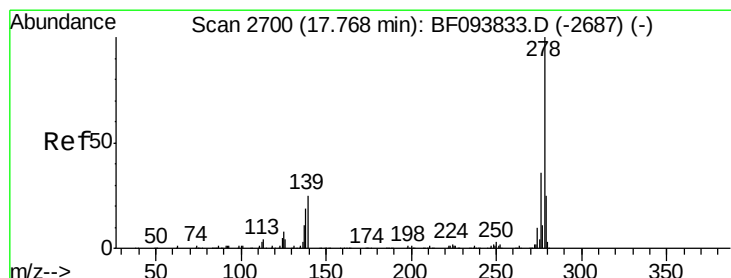
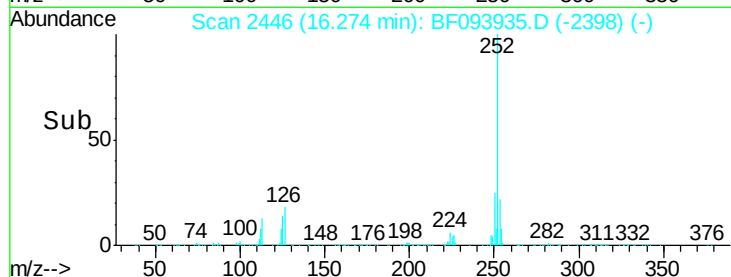
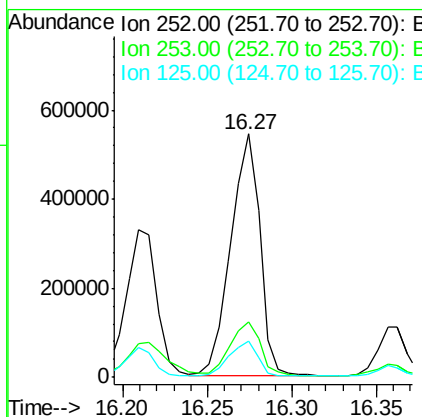
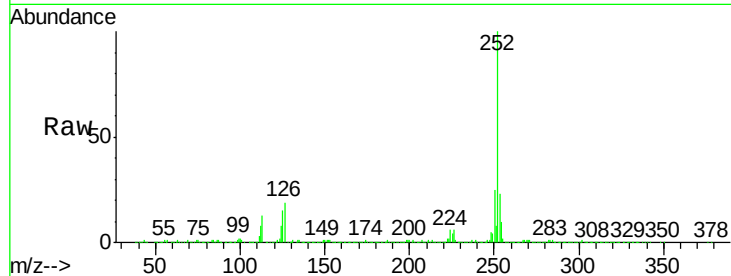
#89
Benzo(a)pyrene
Concen: 46.35 ng
RT: 16.27 min Scan# 2446
Delta R.T. -0.02 min
Lab File: BF093935.D
Acq: 25 Mar 2017 4:25

Instrument :
BNA_F
ClientSampleId :
WC-COMP-12

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.5	26.3
125	14.8	11.0	16.4

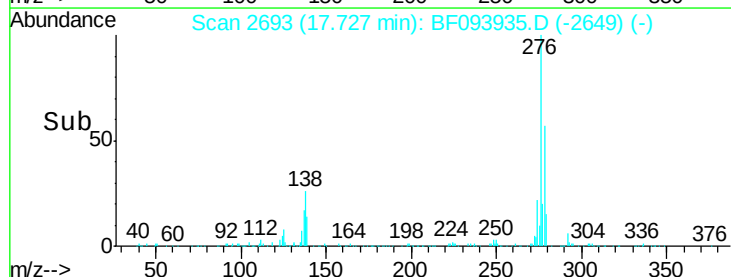
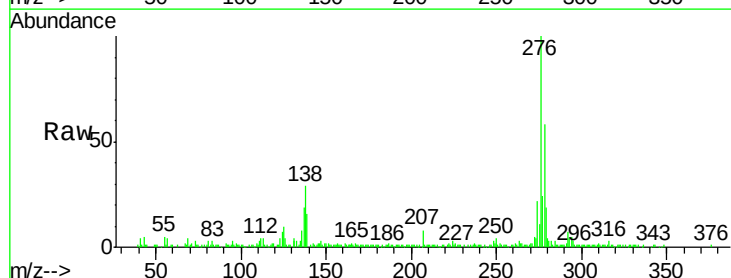
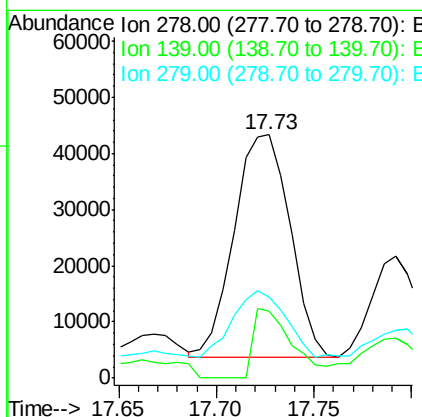
Manual Integrations
APPROVED

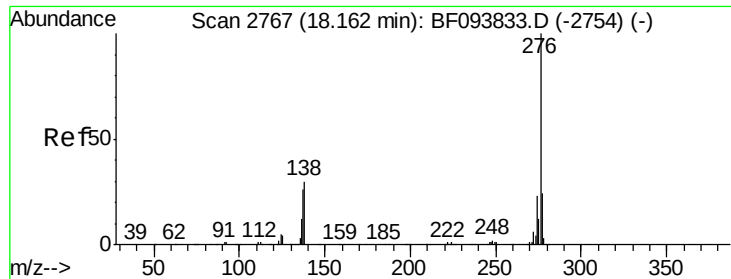
mohammad
3/27/2017 12:57:05 PM



#90
Dibenzo(a,h)anthracene
Concen: 6.57 ng
RT: 17.73 min Scan# 2693
Delta R.T. -0.04 min
Lab File: BF093935.D
Acq: 25 Mar 2017 4:25

Tgt Ion	Ratio	Lower	Upper
278	100		
139	27.5	16.6	24.8#
279	33.4	19.3	28.9#





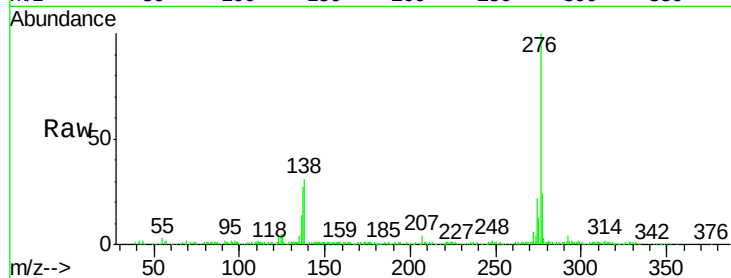
#91
 Benzo(a,h,i)perylene
 Concen: 22.20 ng
 RT: 18.12 min Scan# 2760
 Delta R.T. -0.04 min
 Lab File: BF093935.D
 Acq: 25 Mar 2017 4:25

Instrument :
 BNA_F
 ClientSampleId :
 WC-COMP-12

Tot Ion	Ratio	Lower	Upper
276	100		
277	23.8	18.6	28.0
138	30.8	25.4	38.0

Manual Integrations
 APPROVED

mohammad
 3/27/2017 12:57:05 PM



Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

