

Data Path : Z:\HPCHEM1\BNA F\DATA\BF032717\
 Data File : BF093943.D
 Acq On : 27 Mar 2017 14:43
 Operator : SJ/MA
 Sample : I2367-03DL 2X
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 E2-R14-SSWDL

Manual Integrations
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 3/28/2017 3:43:03 PM

Quant Time: Mar 27 16:41:31 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032217.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 27 16:10:49 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.95	152	193218	20.00	ng	0.00
21) Naphthalene-d8	7.45	136	780612	20.00	ng	0.00
38) Acenaphthene-d10	9.60	164	338705	20.00	ng	0.00
63) Phenanthrene-d10	11.42	188	541589	20.00	ng	0.00
75) Chrysene-d12	14.68	240	346529	20.00	ng	0.00
86) Perylene-d12	16.32	264	326016	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	4.48	112	672366	58.77	ng	0.00
7) Phenol-d6	5.55	99	866401	61.22	ng	0.00
23) Nitrobenzene-d5	6.59	82	465189	34.01	ng	-0.01
41) 2,4,6-Tribromophenol	10.57	330	134629	50.30	ng	0.00
44) 2-Fluorobiphenyl	8.77	172	959934	43.23	ng	0.00
78) Terphenyl-d14	13.40	244	584468	37.81	ng	0.00
Target Compounds						Qvalue
10) Phenol	5.56	94	34065	2.12	ng	93
31) Naphthalene	7.48	128	85871	2.29	ng	98
48) Acenaphthylene	9.42	152	226604	6.38	ng	99
49) Dimethylphthalate	9.27	163	159447	6.62	ng	99
51) Acenaphthene	9.63	154	45949	2.22	ng	98
54) Dibenzofuran	9.85	168	61610	2.18	ng	97
57) Fluorene	10.27	166	78446	3.35	ng	100
70) Phenanthrene	11.45	178	1047488	34.77	ng	99
71) Anthracene	11.51	178	297583	9.59	ng	99
72) Carbazole	11.71	167	115613	3.63	ng	98
74) Fluoranthene	12.92	202	1599079	51.83	ng	99
77) Pyrene	13.20	202	1405780	55.90	ng	100
80) Benzo(a)anthracene	14.67	228	740843	36.66	ng	97
82) Chrysene	14.71	228	684077	36.48	ng	97
85) Indeno(1,2,3-cd)pyrene	17.69	276	399208	24.58	ng	95
87) Benzo(b)fluoranthene	15.91	252	969212m	48.50	ng	
88) Benzo(k)fluoranthene	15.93	252	330146m	16.88	ng	
89) Benzo(a)pyrene	16.26	252	635900	34.55	ng	98
90) Dibenzo(a,h)anthracene	17.70	278	109445	7.02	ng	95
91) Benzo(a,h,i)perylene	18.10	276	373031	23.75	ng	97

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

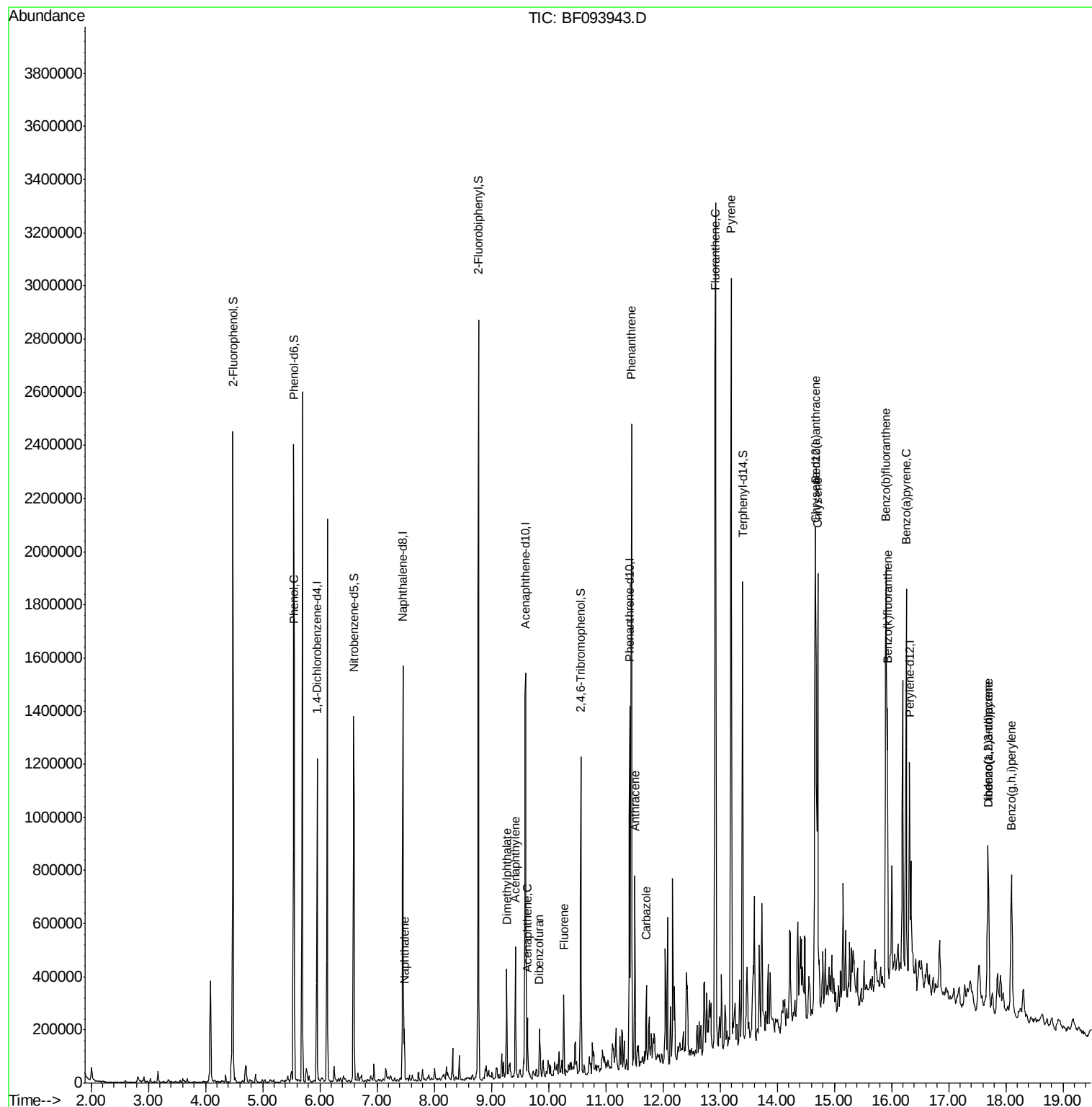
Data Path : Z:\HPCHEM1\BNA F\DATA\BF032717\
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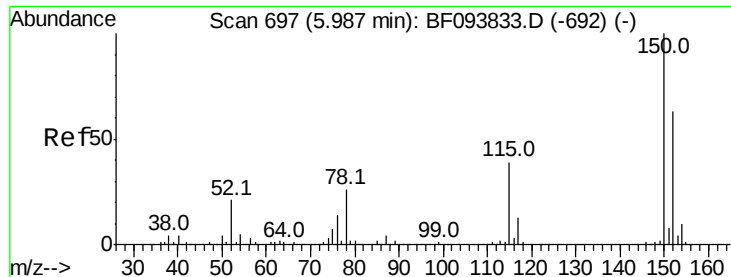
Instrument :
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E2-R14-SSWDL

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#1

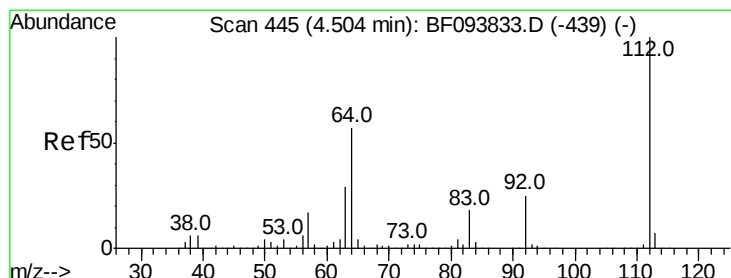
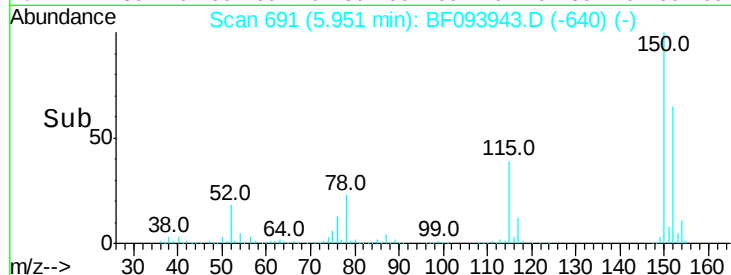
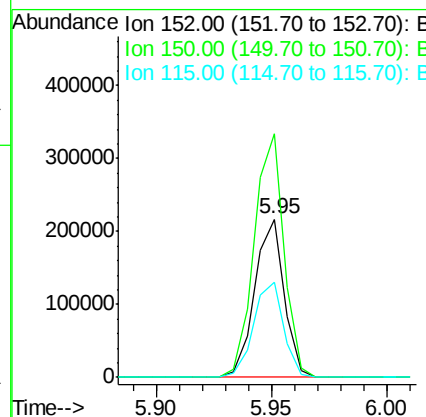
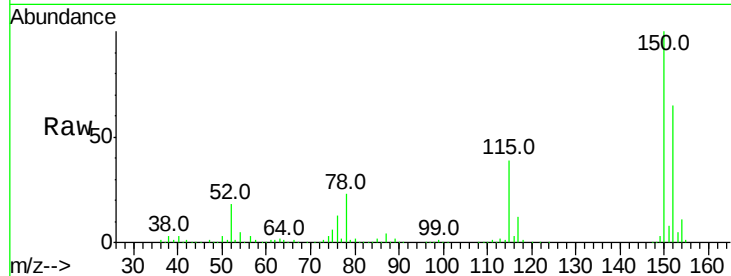
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 5.95 min Scan# 691
Delta R.T. -0.00 min
Lab File: BF093943.D
Acq: 27 Mar 2017 14:43

Instrument :
BNA_F
ClientSampleId :
E2-R14-SSWDL

Tot Ion	Ratio	Lower	Upper
152	100		
150	153.9	126.2	189.2
115	60.1	52.2	78.2

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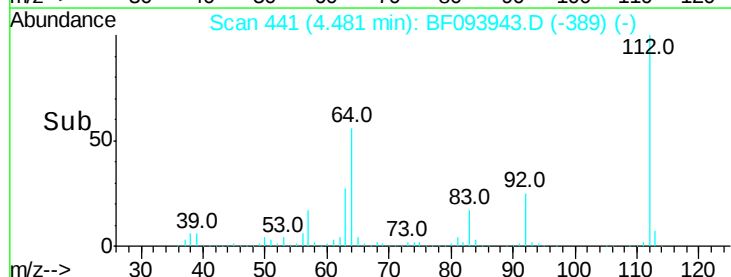
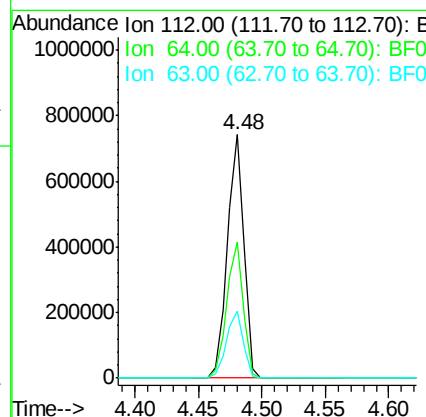
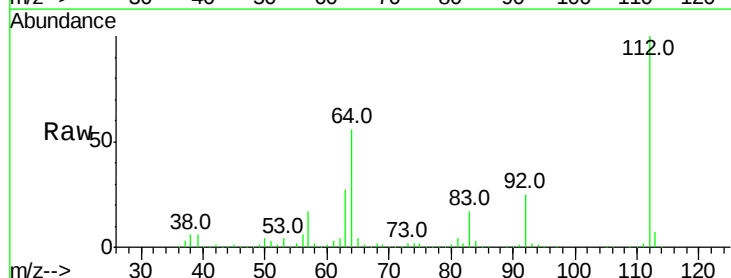
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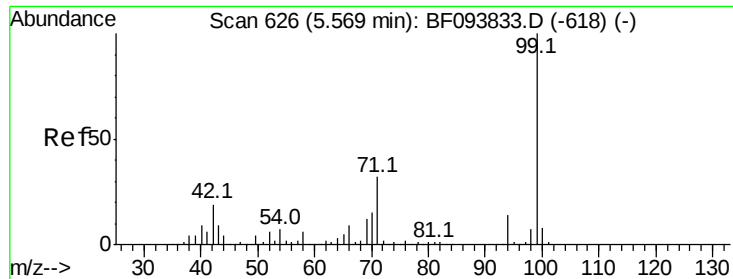


#5

2-Fluorophenol
Concen: 58.77 ng
RT: 4.48 min Scan# 441
Delta R.T. 0.01 min
Lab File: BF093943.D
Acq: 27 Mar 2017 14:43

Tgt Ion	Ratio	Lower	Upper
112	100		
64	56.0	46.0	69.0
63	27.4	23.4	35.0





#7

Phenol-d6

Concen: 61.22 ng

RT: 5.55 min Scan# 622

Delta R.T. -0.01 min

Lab File: BF093943.D

Acq: 27 Mar 2017 14:43

Instrument :

BNA_F

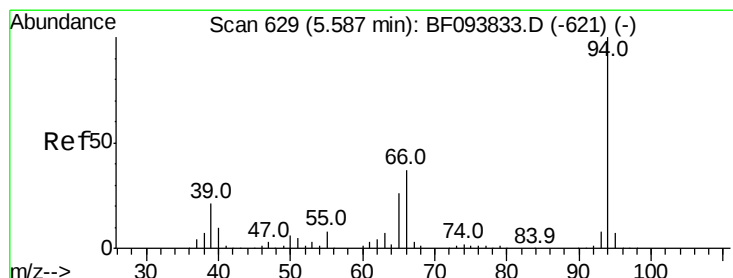
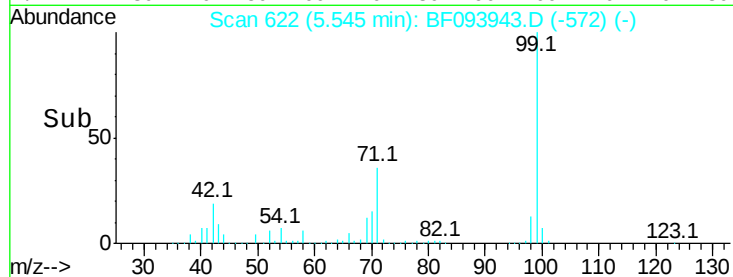
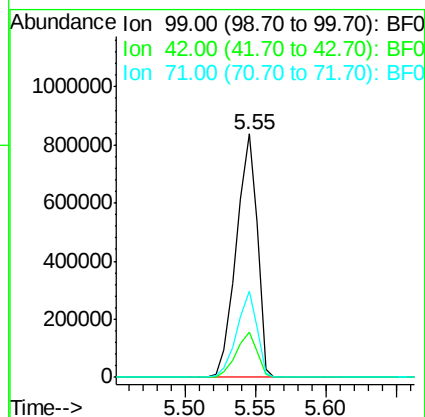
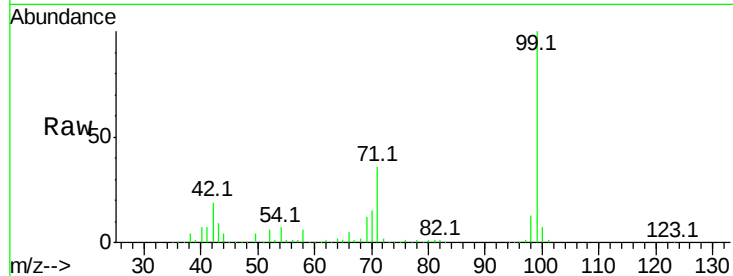
ClientSampleId :

E2-R14-SSWDL

Tot Ion:	99	Resp:	866401
Ion Ratio	Lower	Upper	
99	100		
42	18.6	13.5	20.3
71	35.6	24.5	36.7

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#10

Phenol

Concen: 2.12 ng

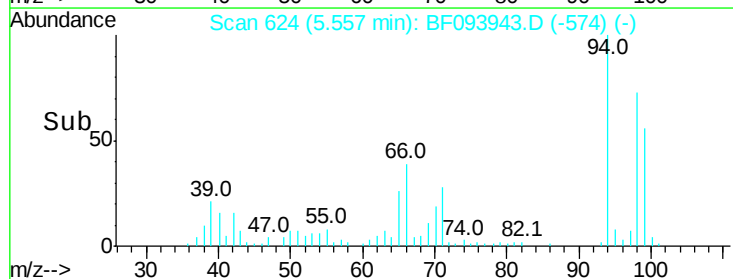
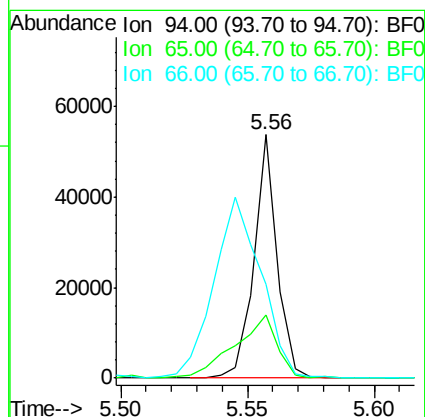
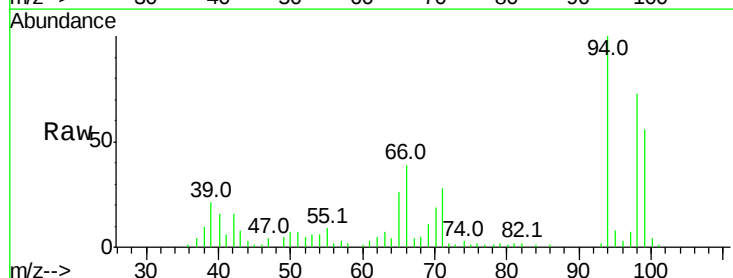
RT: 5.56 min Scan# 624

Delta R.T. -0.01 min

Lab File: BF093943.D

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Tgt Ion:	94	Resp:	34065
Ion Ratio	Lower	Upper	
94	100		
65	26.2	9.9	49.9
66	38.7	23.1	63.1





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.45 min Scan# 946

Delta R.T. -0.01 min

Lab File: BF093943.D

Acq: 27 Mar 2017 14:43

Instrument :

BNA_F

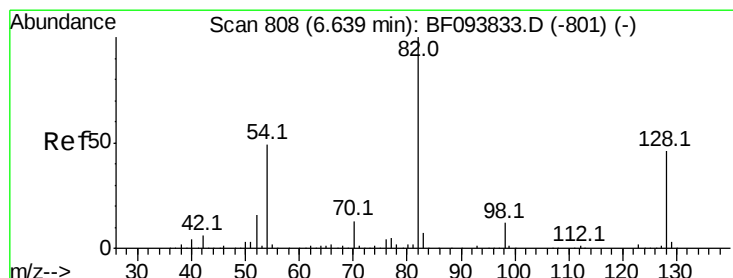
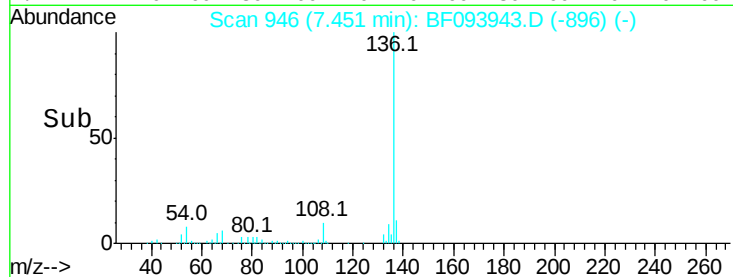
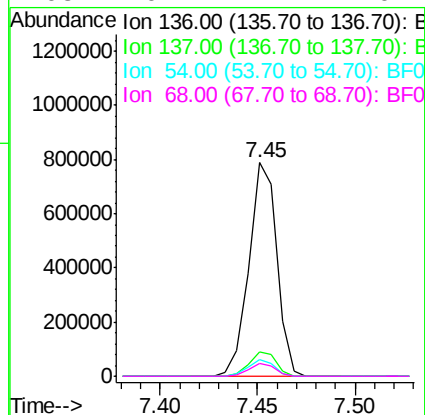
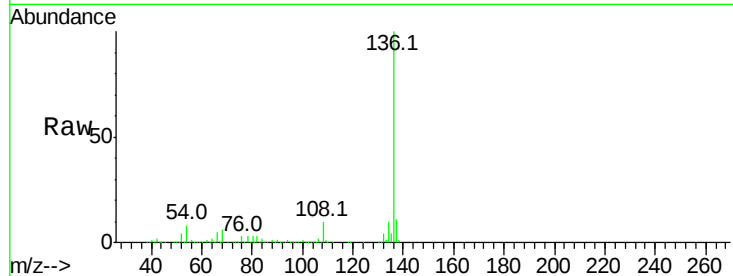
ClientSampleId :

E2-R14-SSWDL

Tot Ion	Ratio	Resp Lower	Upper
136	100		
137	11.5	8.5	12.7
54	7.8	4.9	7.3#
68	6.2	4.1	6.1#

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#23

Nitrobenzene-d5

Concen: 34.01 ng

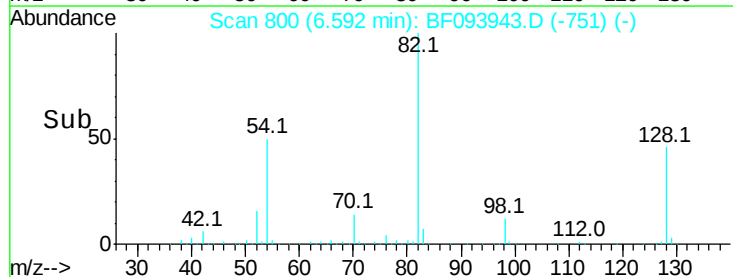
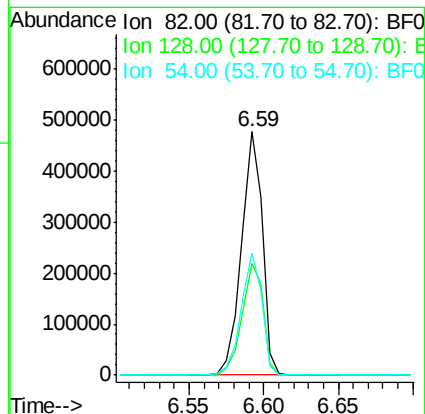
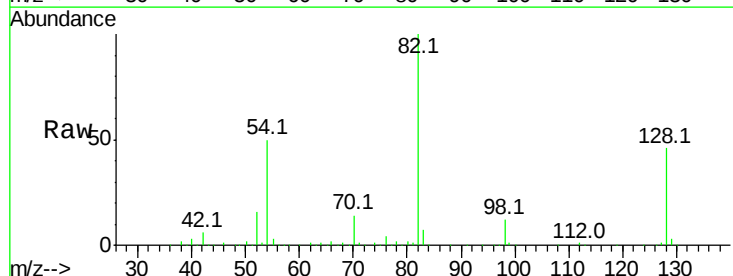
RT: 6.59 min Scan# 800

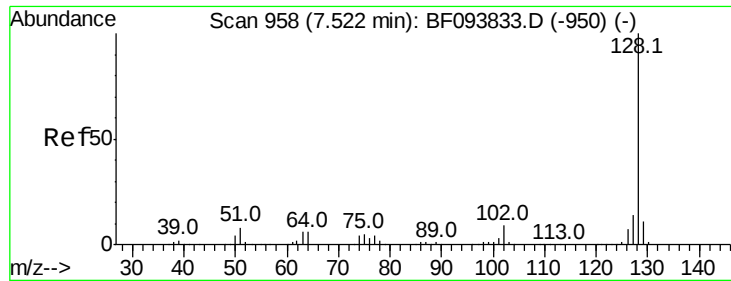
Delta R.T. -0.01 min

Lab File: BF093943.D

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Tgt Ion	Ratio	Resp Lower	Upper
82	100		
128	45.8	34.0	51.0
54	50.1	42.2	63.2





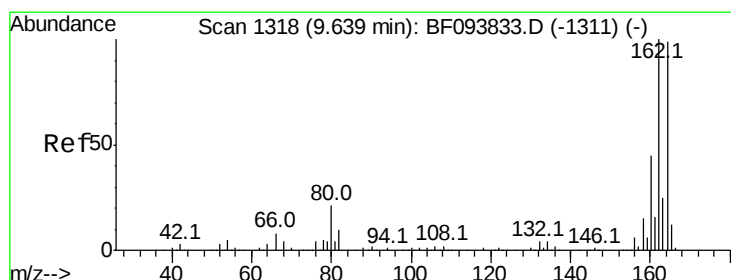
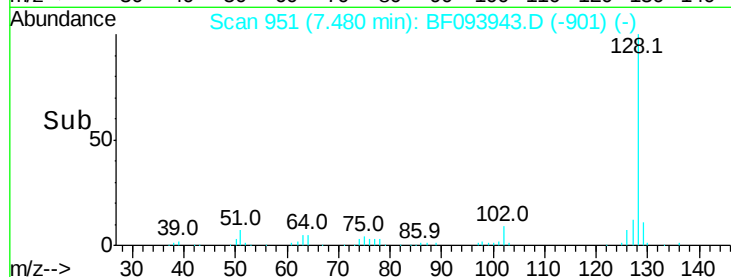
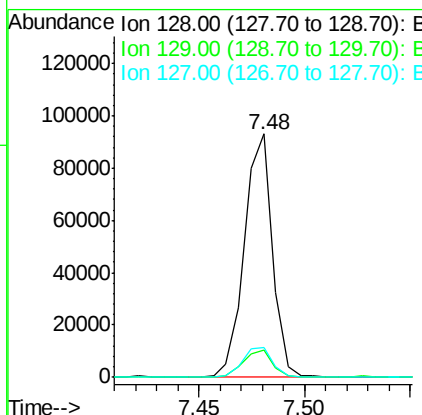
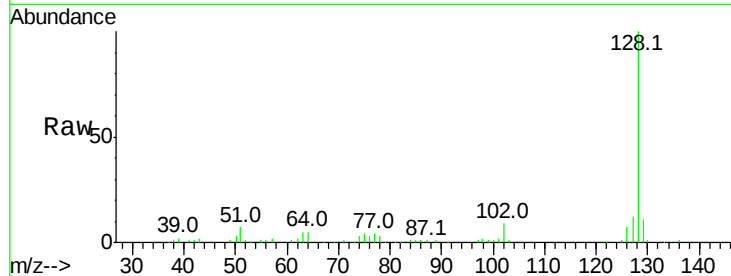
#31
Naphthalene
Concen: 2.29 ng
RT: 7.48 min Scan# 951
Delta R.T. -0.01 min
Lab File: BF093943.D
Acq: 27 Mar 2017 14:43

Instrument :
BNA_F
ClientSampleId :
E2-R14-SSWDL

Tot Ion	Ratio	Lower	Upper
128	100		
129	11.1	9.0	13.6
127	12.0	10.8	16.2

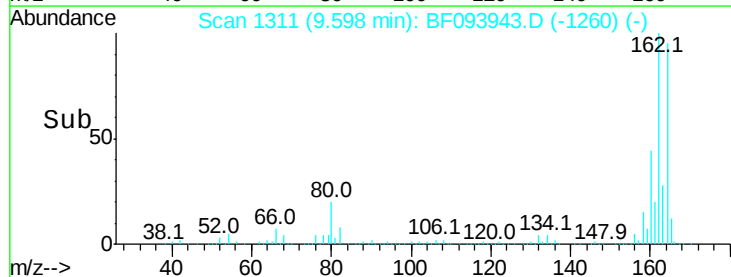
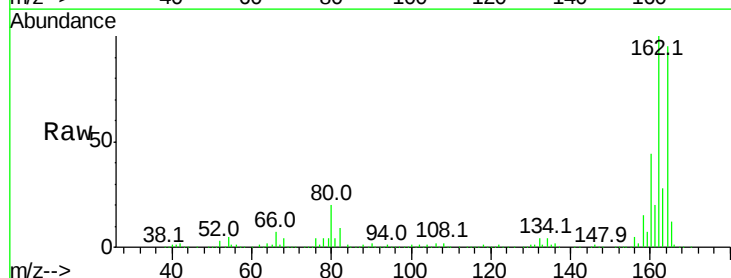
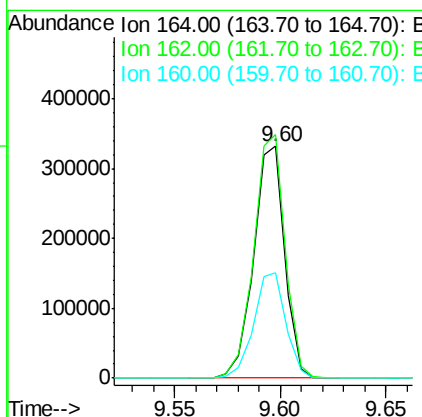
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.60 min Scan# 1311
Delta R.T. -0.00 min
Lab File: BF093943.D
Acq: 27 Mar 2017 14:43

Tgt Ion	Ratio	Lower	Upper
164	100		
162	105.0	82.6	123.8
160	45.7	36.2	54.2





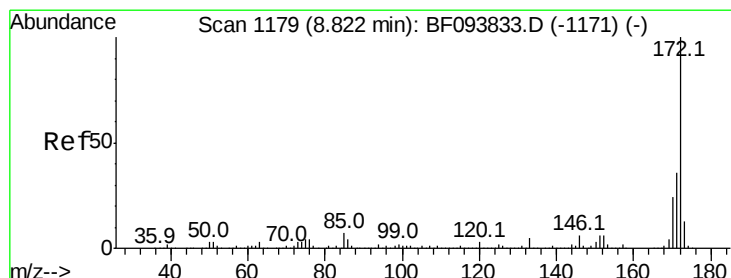
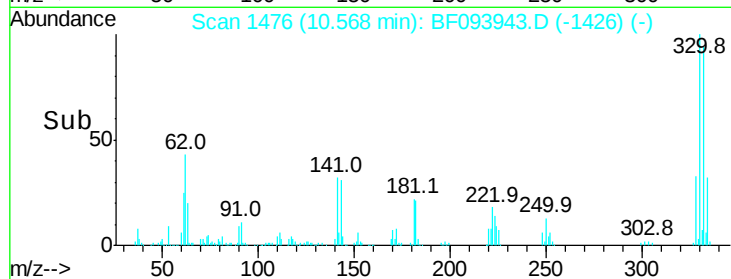
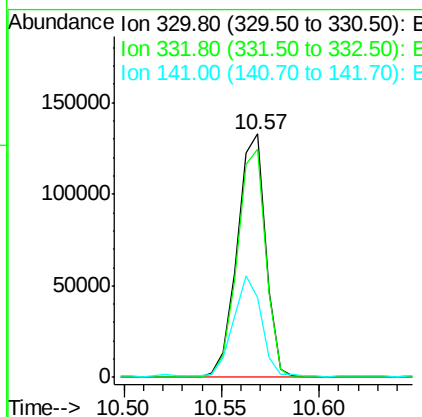
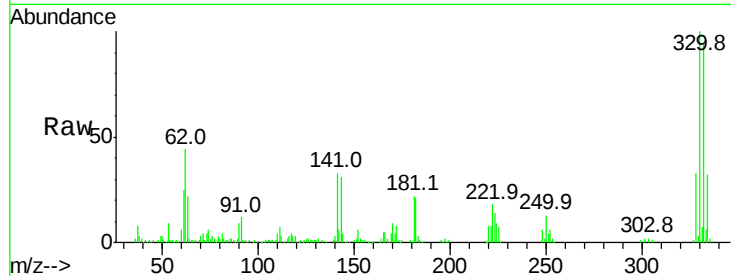
#41
 2,4,6-Tribromophenol
 Concen: 50.30 ng
 RT: 10.57 min Scan# 1476
 Delta R.T. -0.01 min
 Lab File: BF093943.D
 Acq: 27 Mar 2017 14:43

Instrument :
 BNA_F
 ClientSampleId :
 E2-R14-SSWDL

Tot Ion	Ratio	Resp	Lower	Upper
330	100			
332	94.0	76.6	115.0	
141	40.5	31.4	47.2	

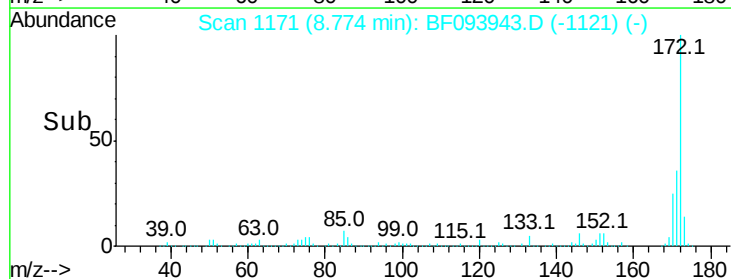
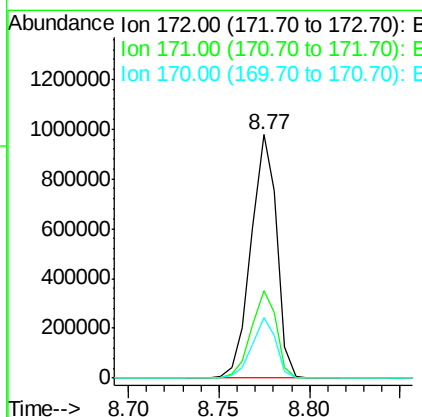
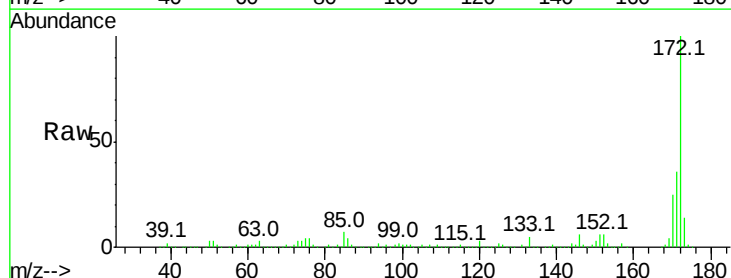
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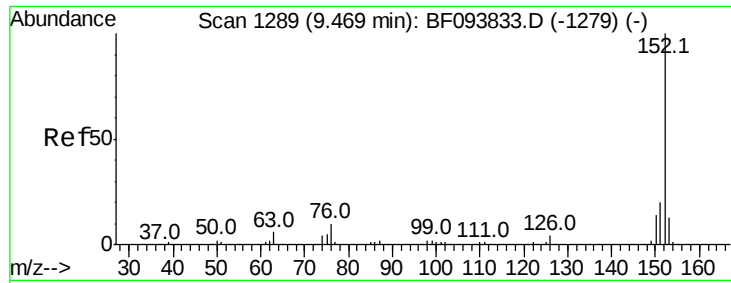
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#44
 2-Fluorobiphenyl
 Concen: 43.23 ng
 RT: 8.77 min Scan# 1171
 Delta R.T. -0.01 min
 Lab File: BF093943.D
 Acq: 27 Mar 2017 14:43

Tgt Ion	Ratio	Resp	Lower	Upper
172	100			
171	35.9	29.6	44.4	
170	24.7	19.8	29.8	





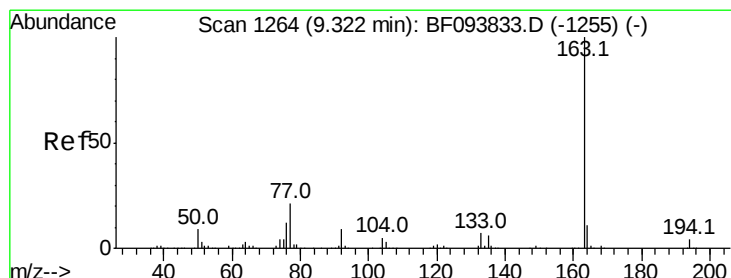
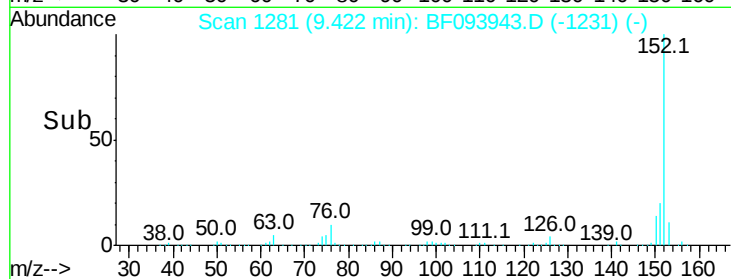
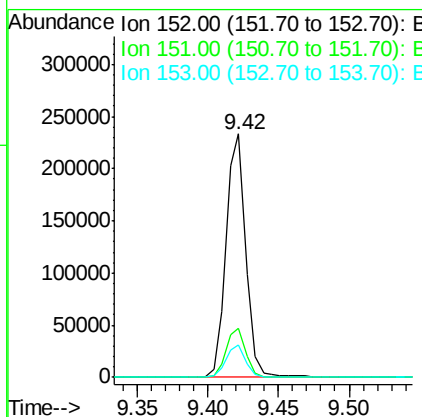
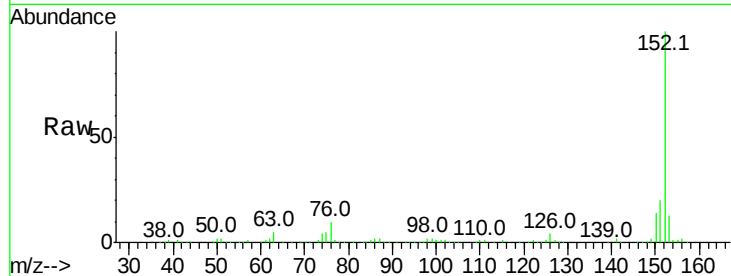
#48
Acenaphthylene
Concen: 6.38 ng
RT: 9.42 min Scan# 1281
Delta R.T. -0.01 min
Lab File: BF093943.D
Acq: 27 Mar 2017 14:43

Instrument :
BNA_F
ClientSampleId :
E2-R14-SSWDL

Tot Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.8	25.2
153	13.3	10.8	16.2

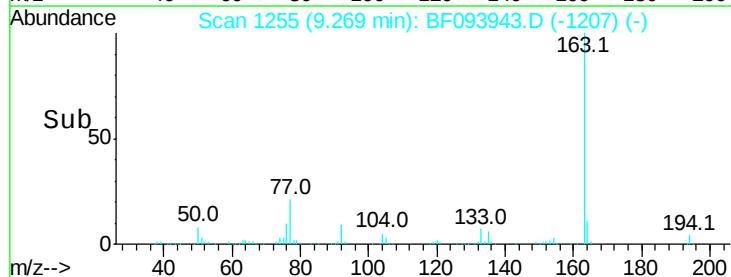
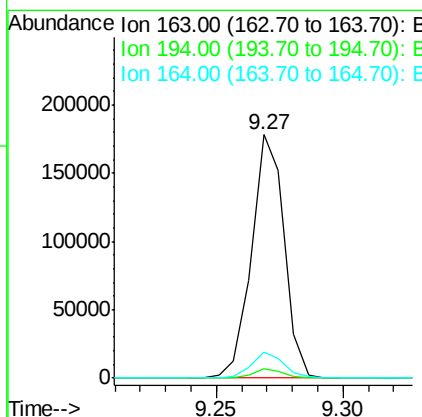
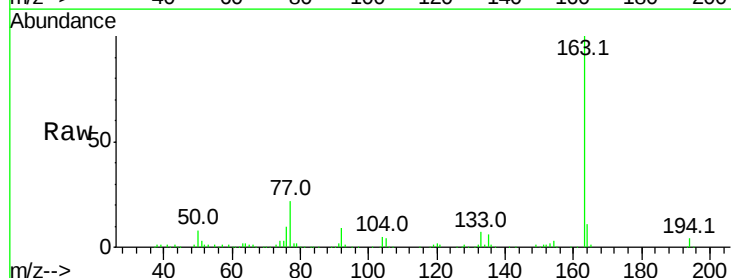
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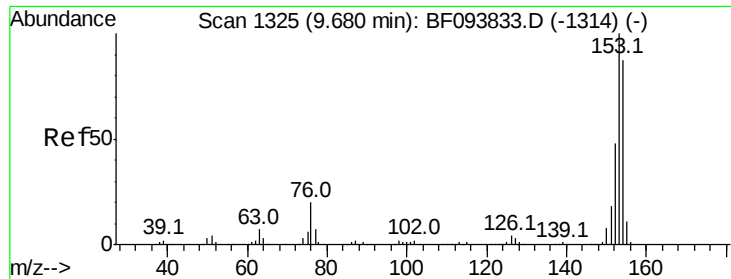
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#49
Dimethylphthalate
Concen: 6.62 ng
RT: 9.27 min Scan# 1255
Delta R.T. -0.02 min
Lab File: BF093943.D
Acq: 27 Mar 2017 14:43

Tgt Ion	Ratio	Lower	Upper
163	100		
194	3.9	2.6	4.0
164	10.5	8.4	12.6





#51

Acenaphthene

Concen: 2.22 ng

RT: 9.63 min Scan# 1317

Delta R.T. -0.01 min

Lab File: BF093943.D

Acq: 27 Mar 2017 14:43

Instrument :

BNA_F

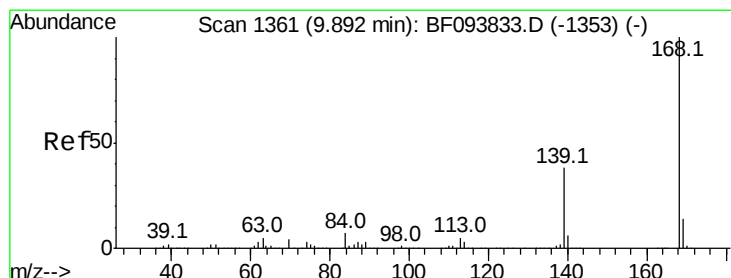
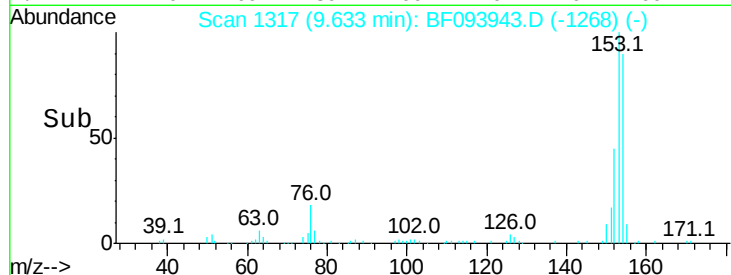
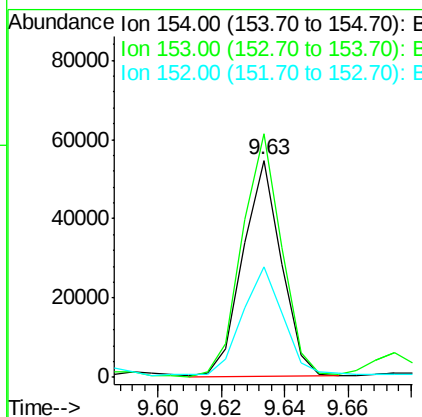
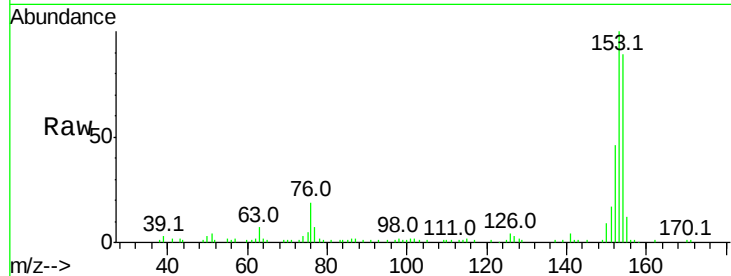
ClientSampleId :

E2-R14-SSWDL

Tot Ion:	154	Resp:	45949
Ion	Ratio	Lower	Upper
154	100		
153	112.1	90.5	135.7
152	51.1	43.6	65.4

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#54

Dibenzofuran

Concen: 2.18 ng

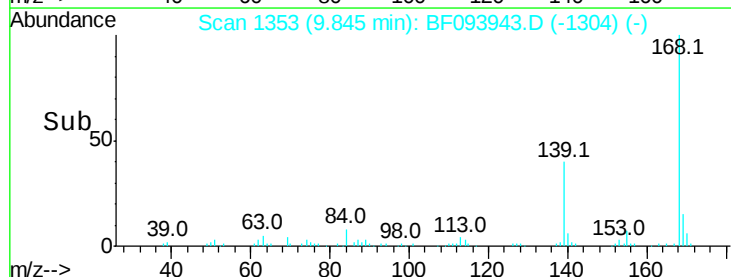
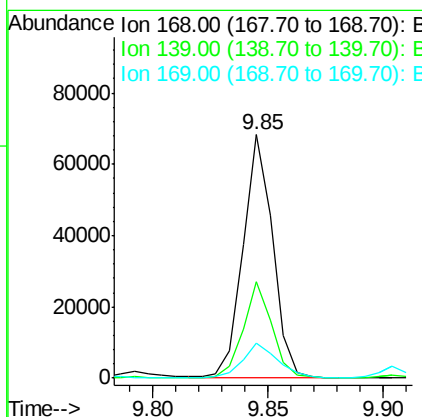
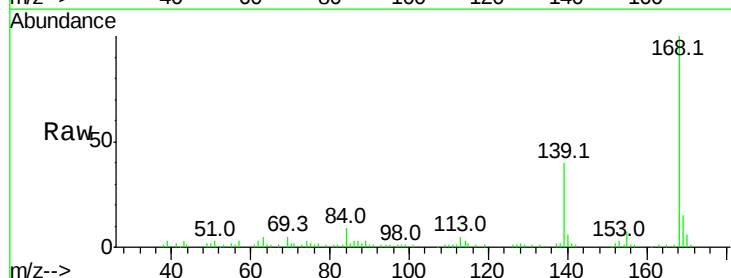
RT: 9.85 min Scan# 1353

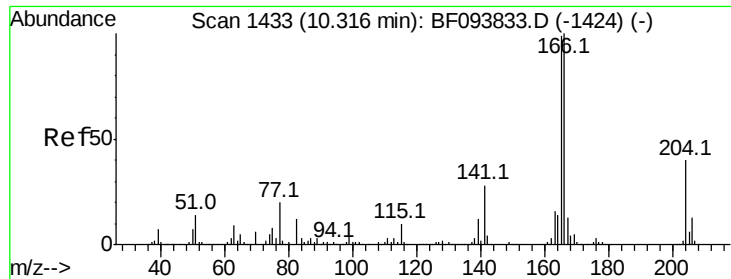
Delta R.T. -0.01 min

Lab File: BF093943.D

Acq: 27 Mar 2017 14:43

Tgt Ion:	168	Resp:	61610
Ion	Ratio	Lower	Upper
168	100		
139	39.8	30.6	45.8
169	14.5	10.8	16.2





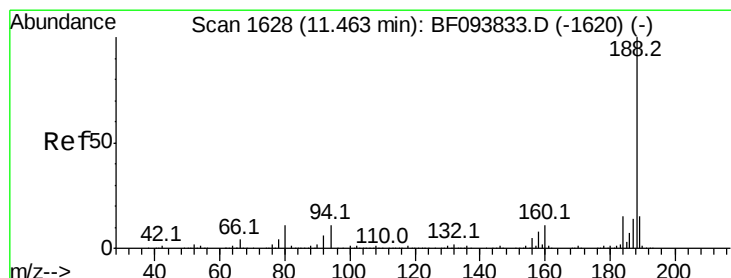
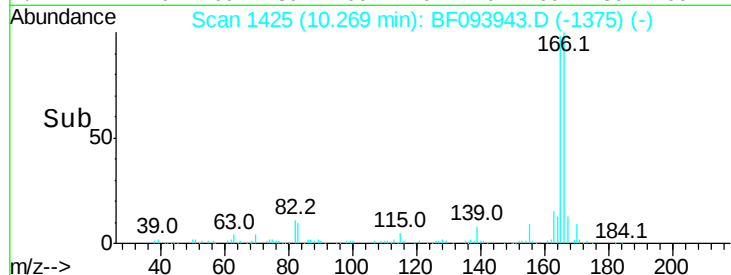
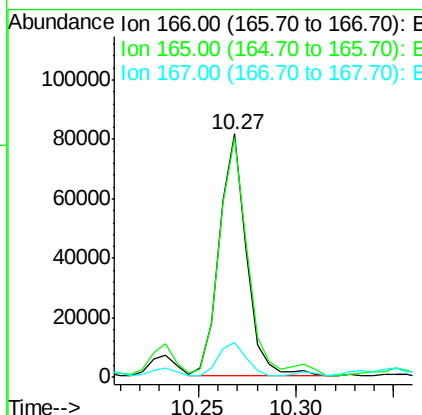
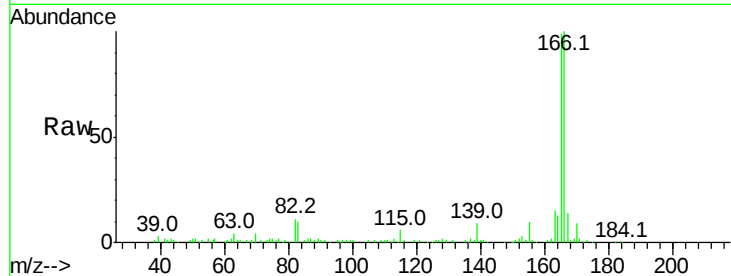
#57
Fluorene
 Concen: 3.35 ng
 RT: 10.27 min Scan# 1425
 Delta R.T. -0.01 min
 Lab File: BF093943.D
 Acq: 27 Mar 2017 14:43

Instrument :
 BNA_F
 ClientSampleId :
 E2-R14-SSWDL

Tot Ion	Ratio	Lower	Upper
166	100		
165	98.7	78.8	118.2
167	14.4	10.6	16.0

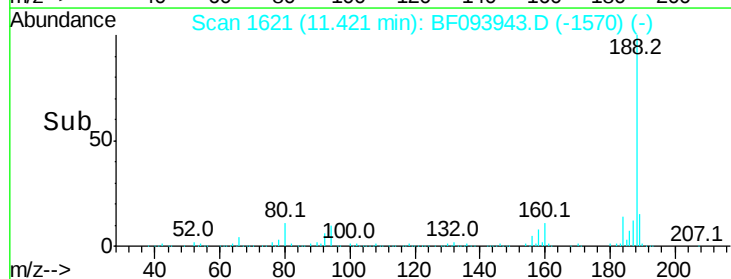
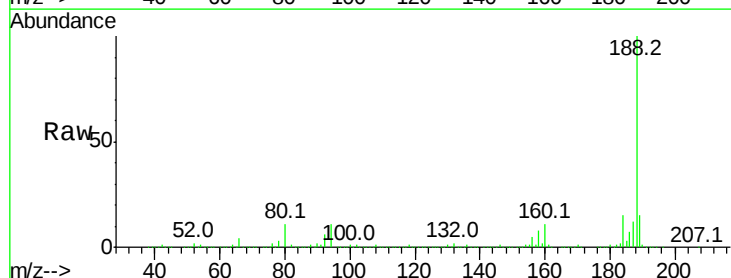
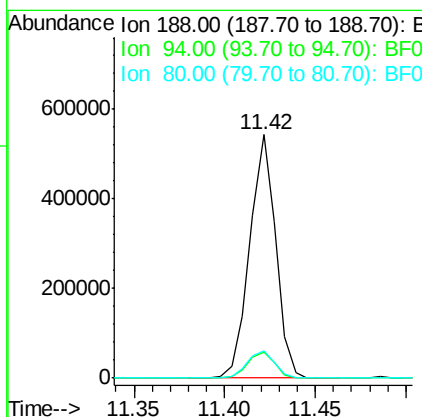
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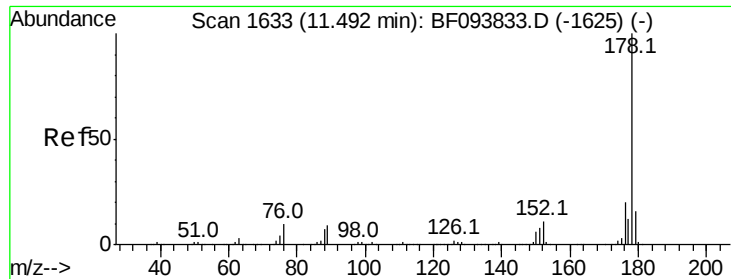
mohammad
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#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.42 min Scan# 1621
 Delta R.T. -0.00 min
 Lab File: BF093943.D
 Acq: 27 Mar 2017 14:43

Tgt Ion	Ratio	Lower	Upper
188	100		
94	10.5	9.4	14.2
80	11.5	10.2	15.2





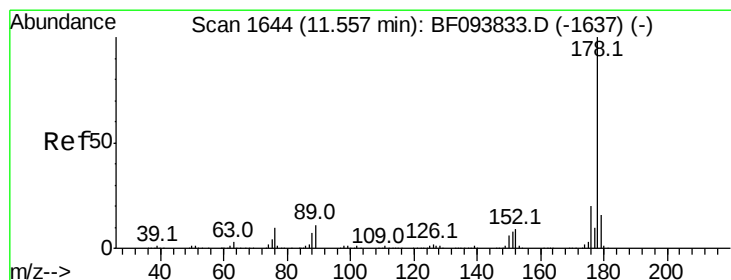
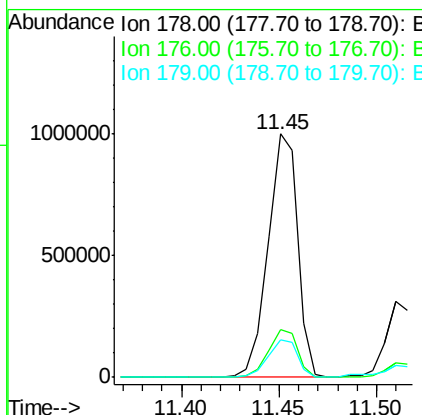
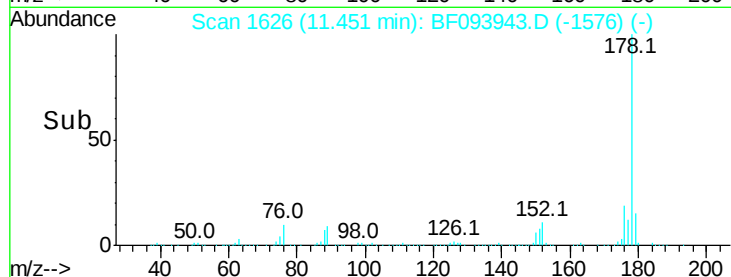
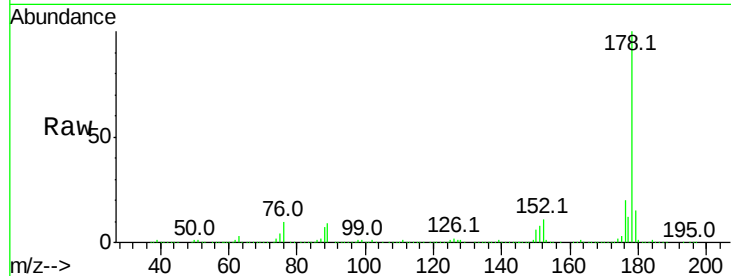
#70
Phenanthrene
Concen: 34.77 ng
RT: 11.45 min Scan# 1626
Delta R.T. -0.01 min
Lab File: BF093943.D
Acq: 27 Mar 2017 14:43

Instrument :
BNA_F
ClientSampled :
E2-R14-SSWDL

Tot Ion:178 Resp: 1047488
Ion Ratio Lower Upper
178 100
176 19.5 16.2 24.4
179 15.5 12.6 19.0

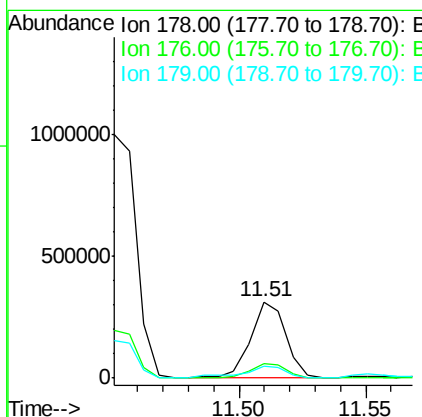
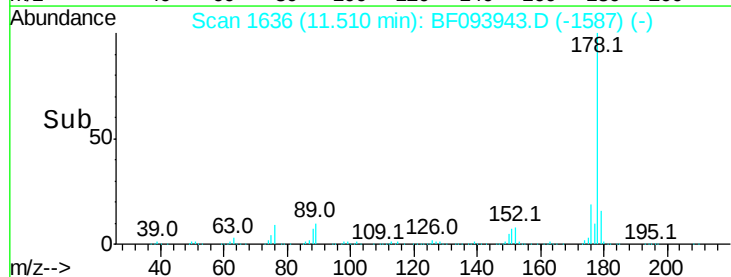
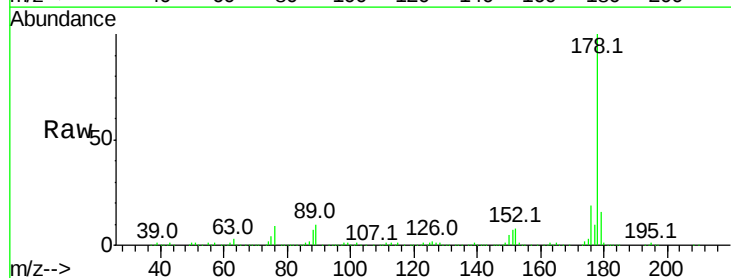
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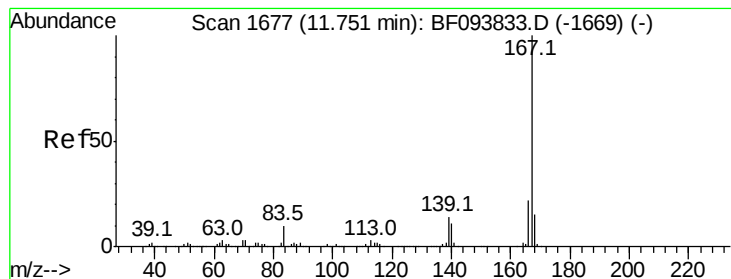
mohammad
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#71
Anthracene
Concen: 9.59 ng
RT: 11.51 min Scan# 1636
Delta R.T. -0.01 min
Lab File: BF093943.D
Acq: 27 Mar 2017 14:43

Tgt Ion:178 Resp: 297583
Ion Ratio Lower Upper
178 100
176 19.0 15.8 23.8
179 16.0 12.7 19.1





#72

Carbazole

Concen: 3.63 ng

RT: 11.71 min Scan# 1670

Delta R.T. -0.01 min

Lab File: BF093943.D

Acq: 27 Mar 2017 14:43

Instrument :

BNA_F

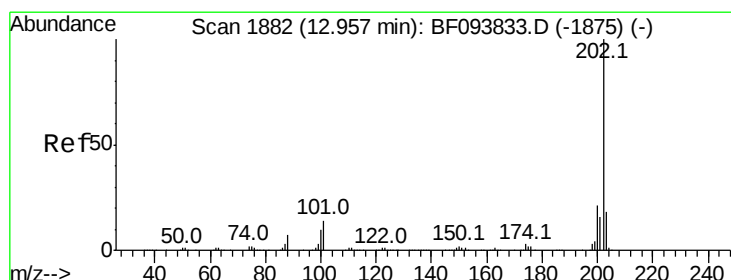
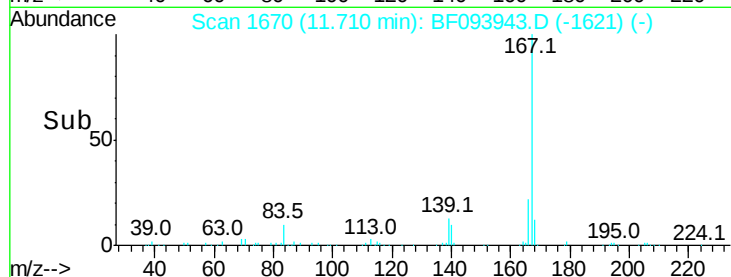
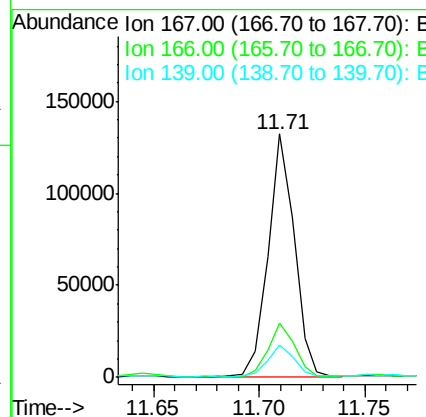
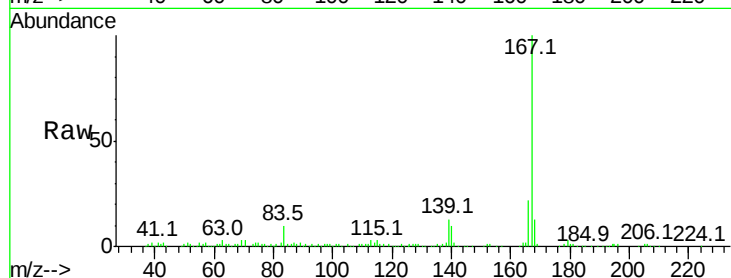
ClientSampleId :

E2-R14-SSWDL

Tot Ion:	167	Resp:	115613
Ion Ratio	Lower	Upper	
167	100		
166	22.1	18.1	27.1
139	13.4	11.7	17.5

Manual Integrations
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#74

Fluoranthene

Concen: 51.83 ng

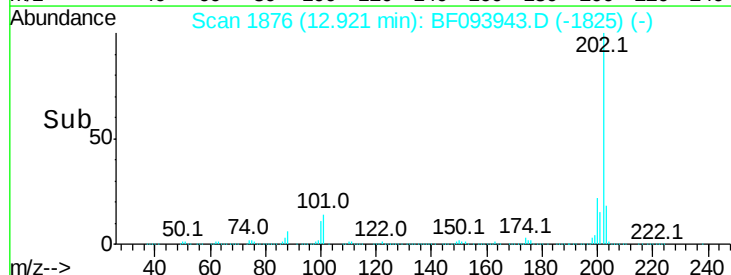
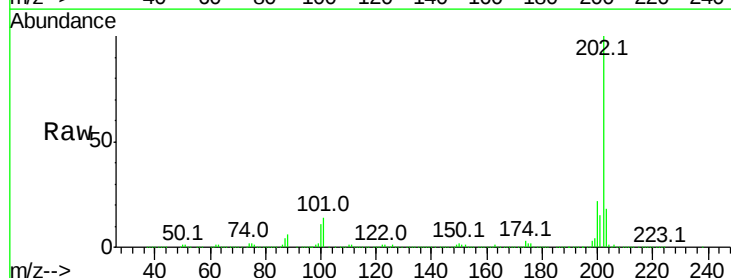
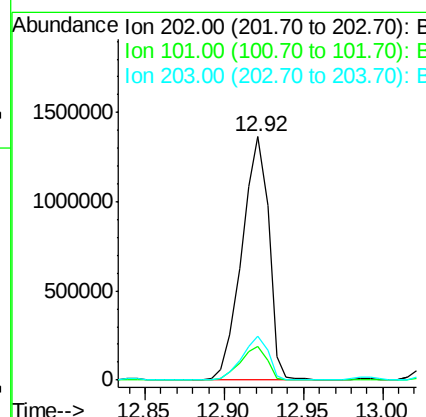
RT: 12.92 min Scan# 1876

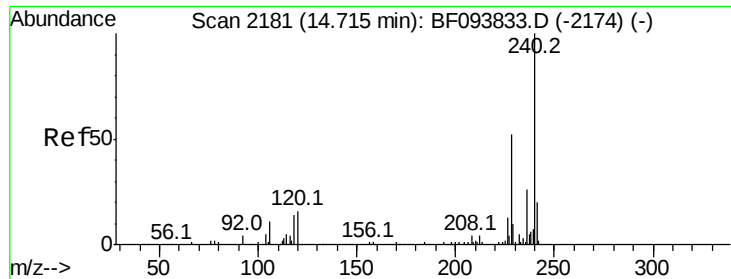
Delta R.T. -0.00 min

Lab File: BF093943.D

Acq: 27 Mar 2017 14:43

Tgt Ion:	202	Resp:	1599079
Ion Ratio	Lower	Upper	
202	100		
101	13.7	0.0	33.2
203	17.9	0.0	38.1





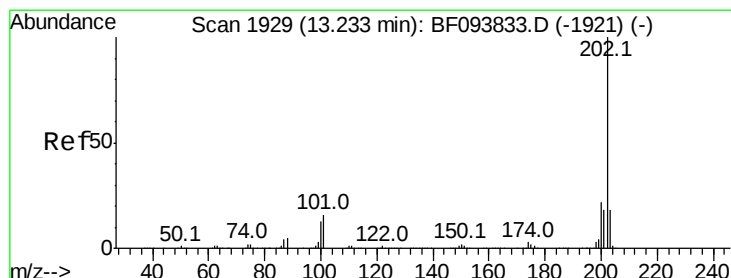
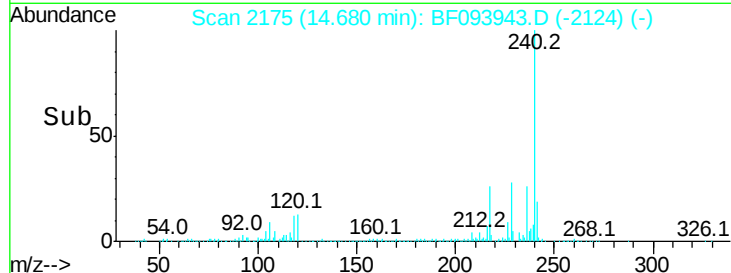
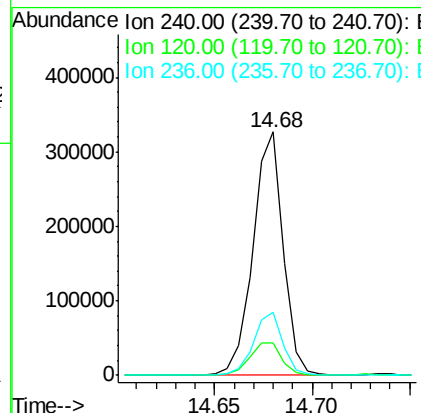
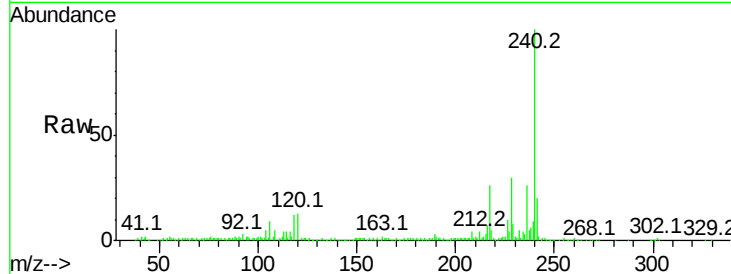
#75
 Chrysene-d12
 Concen: 20.00 ng
 RT: 14.68 min Scan# 2175
 Delta R.T. -0.00 min
 Lab File: BF093943.D
 Acq: 27 Mar 2017 14:43

Instrument :
 BNA_F
 ClientSampleId :
 E2-R14-SSWDL

Tot Ion	Ratio	Lower	Upper
240	100		
120	13.3	5.8	8.8#
236	25.7	20.5	30.7

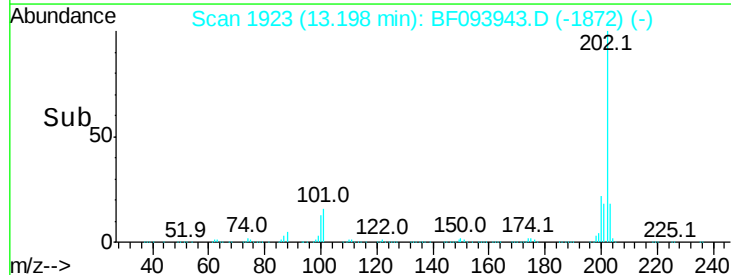
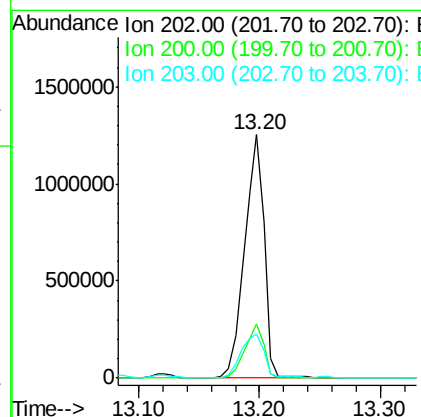
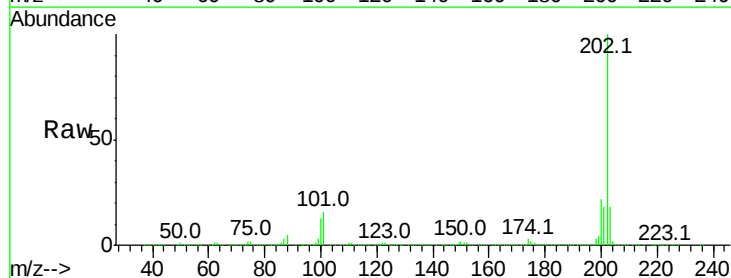
Manual Integrations
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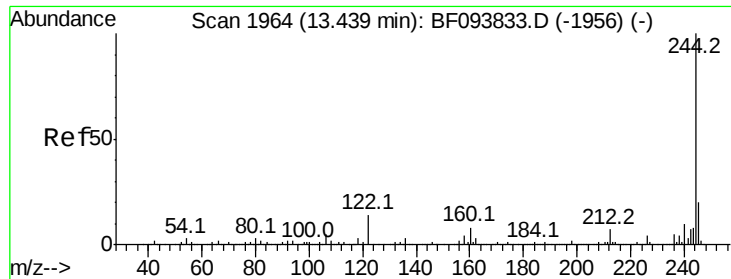
mohammad
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#77
 Pyrene
 Concen: 55.90 ng
 RT: 13.20 min Scan# 1923
 Delta R.T. -0.00 min
 Lab File: BF093943.D
 Acq: 27 Mar 2017 14:43

Tgt Ion	Ratio	Lower	Upper
202	100		
200	22.0	17.6	26.4
203	18.1	14.4	21.6





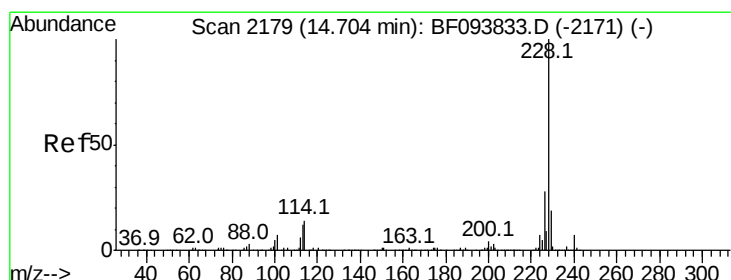
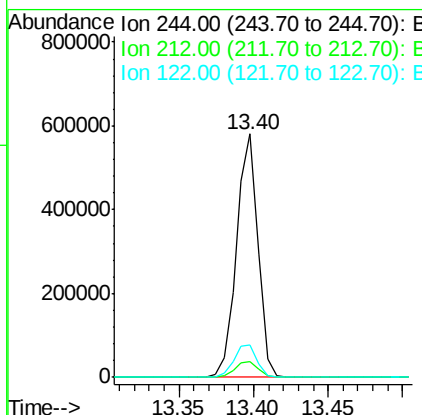
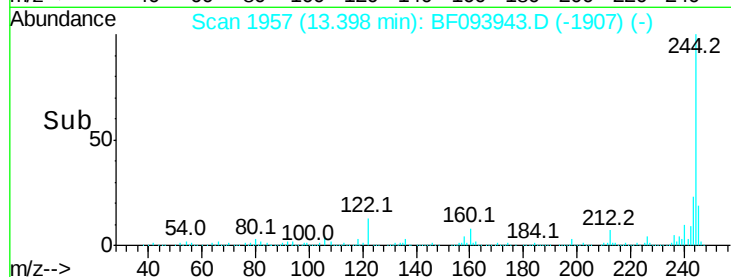
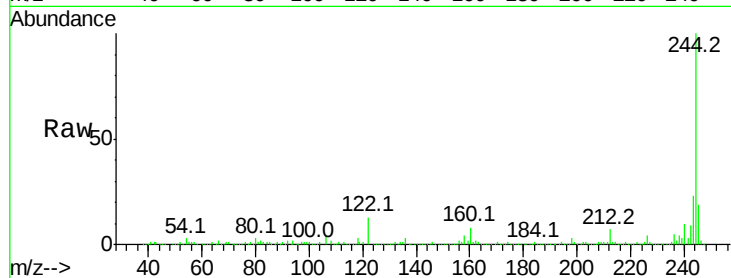
#78
 Terphenyl-d14
 Concen: 37.81 ng
 RT: 13.40 min Scan# 1957
 Delta R.T. -0.01 min
 Lab File: BF093943.D
 Acq: 27 Mar 2017 14:43

Instrument :
 BNA_F
 ClientSampleId :
 E2-R14-SSWDL

Tot Ion	Ratio	Lower	Upper
244	100		
212	6.6	6.0	9.0
122	13.2	10.3	15.5

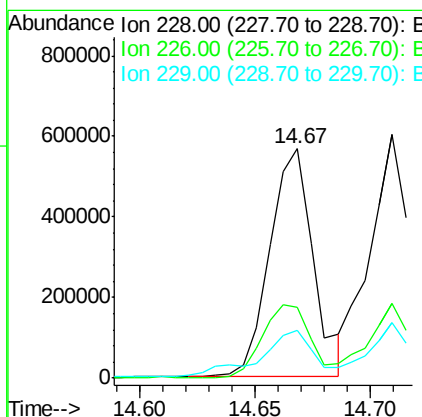
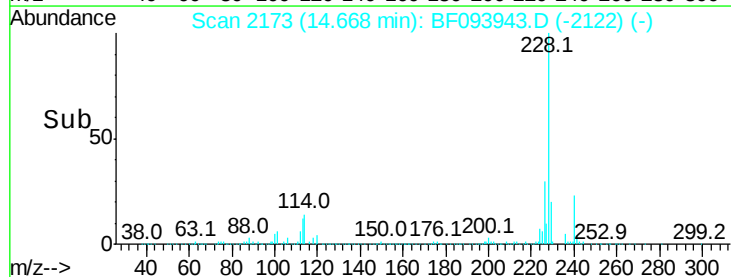
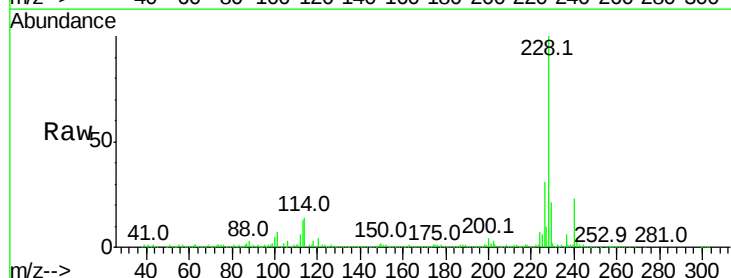
Manual Integrations
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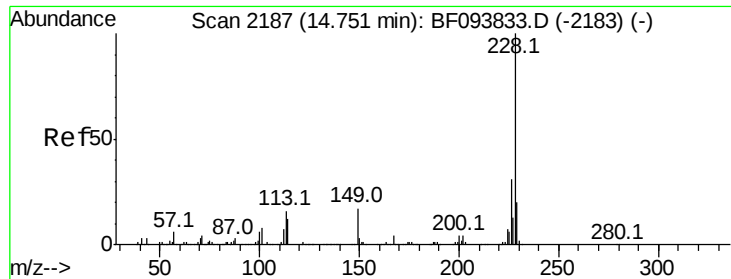
mohammad
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#80
 Benzo(a)anthracene
 Concen: 36.66 ng
 RT: 14.67 min Scan# 2173
 Delta R.T. -0.00 min
 Lab File: BF093943.D
 Acq: 27 Mar 2017 14:43

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.7	22.6	33.8
229	20.6	16.3	24.5





#82

Chrysene

Concen: 36.48 ng

RT: 14.71 min Scan# 2180

Delta R.T. -0.01 min

Lab File: BF093943.D

Acq: 27 Mar 2017 14:43

Instrument :

BNA_F

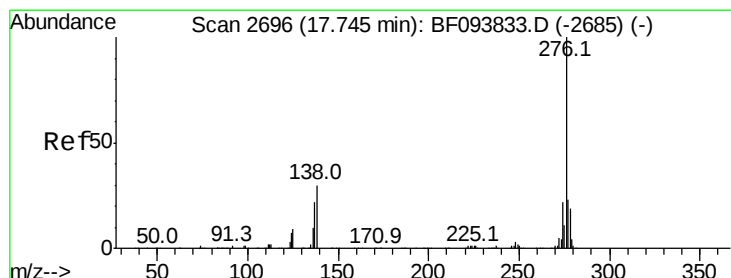
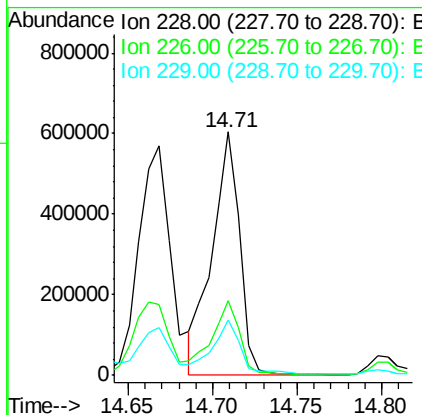
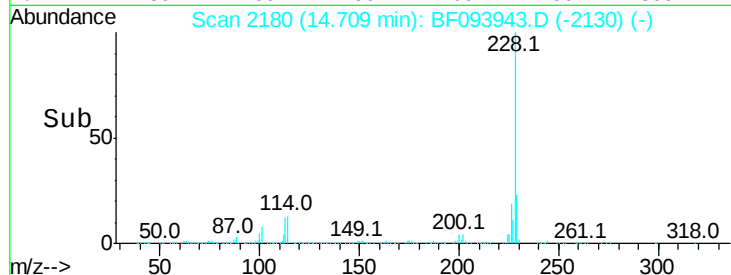
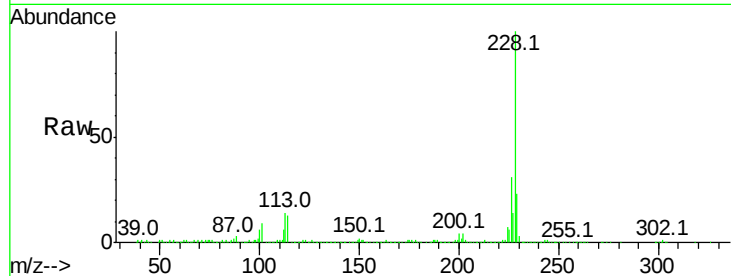
ClientSampleId :

E2-R14-SSWDL

Tot Ion:	228	Resp:	684077
Ion Ratio		Lower	Upper
228	100		
226	30.8	24.9	37.3
229	22.9	15.8	23.6

Manual Integrations
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#85

Indeno(1,2,3-cd)pyrene

Concen: 24.58 ng

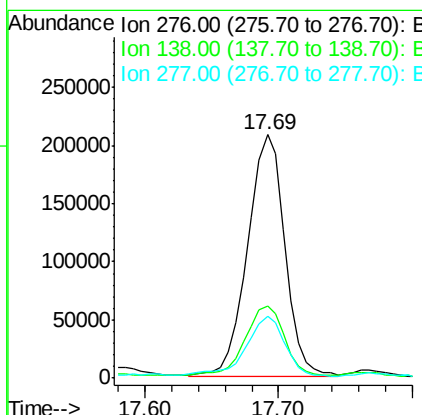
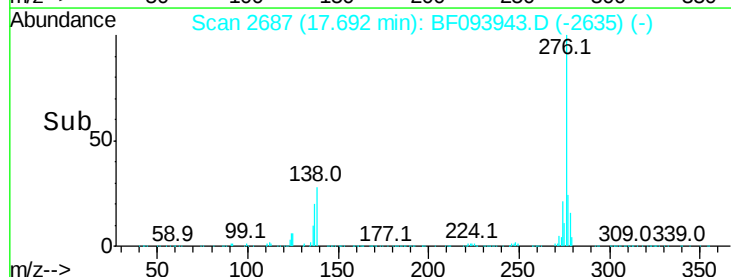
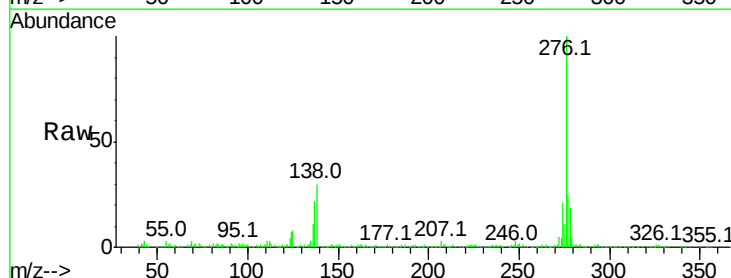
RT: 17.69 min Scan# 2687

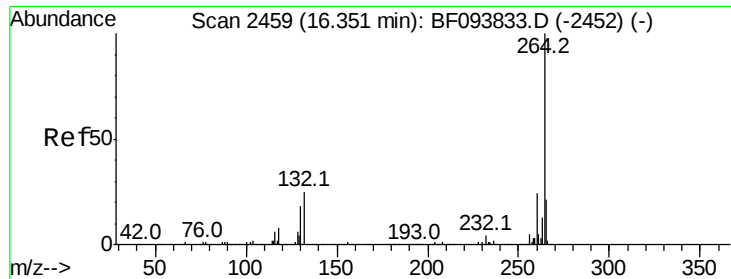
Delta R.T. 0.01 min

Lab File: BF093943.D

Acq: 27 Mar 2017 14:43

Tgt Ion:	276	Resp:	399208
Ion Ratio		Lower	Upper
276	100		
138	30.4	27.8	41.6
277	26.0	20.2	30.4





#86

Pervlene-d12

Concen: 20.00 ng

RT: 16.32 min Scan# 2453

Delta R.T. 0.01 min

Lab File: BF093943.D

Acq: 27 Mar 2017 14:43

Instrument :

BNA_F

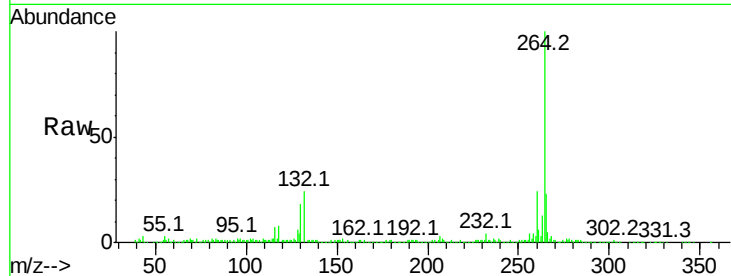
ClientSampleId :

E2-R14-SSWDL

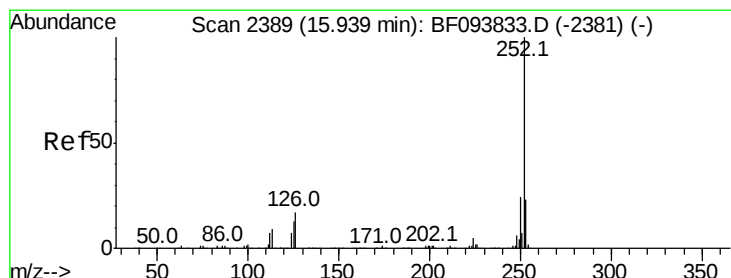
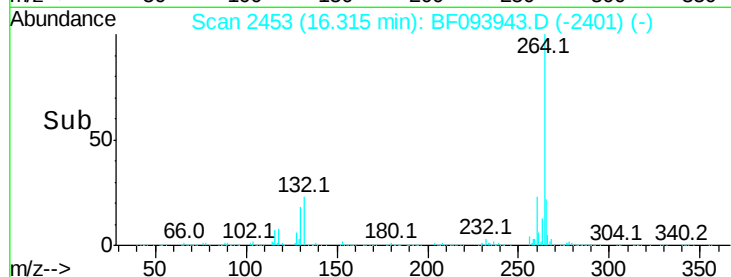
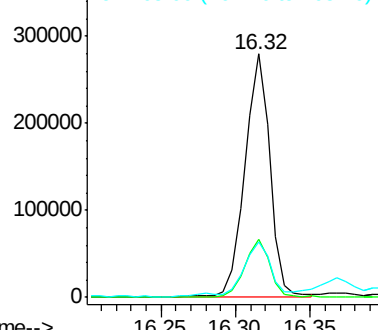
Tot Ion:	264	Resp:	326016
Ion Ratio		Lower	Upper
264	100		
260	23.6	19.5	29.3
265	22.5	17.2	25.8

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Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E



#87

Benzo(b)fluoranthene

Concen: 48.50 ng m

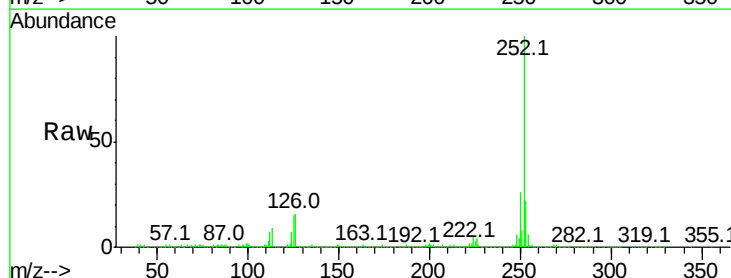
RT: 15.91 min Scan# 2384

Delta R.T. 0.01 min

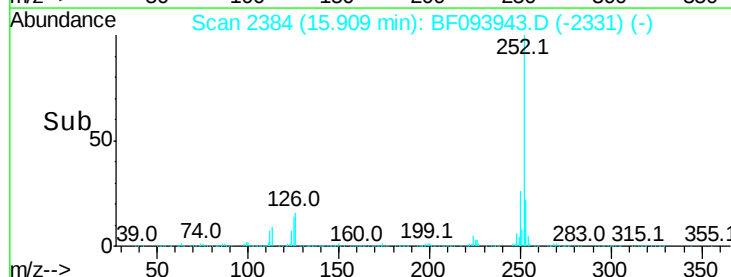
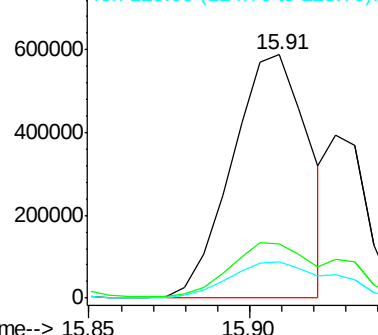
Lab File: BF093943.D

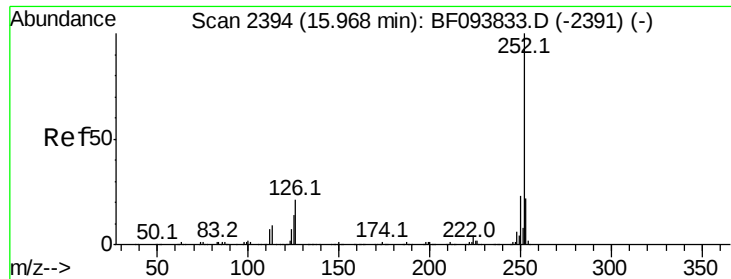
Acq: 27 Mar 2017 14:43

Tgt Ion:	252	Resp:	969212
Ion Ratio		Lower	Upper
252	100		
253	22.2	18.1	27.1
125	14.8	9.8	14.8#



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





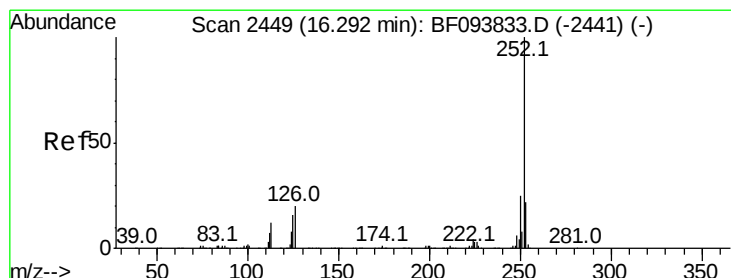
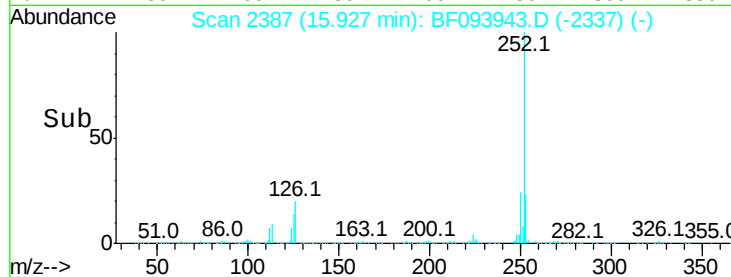
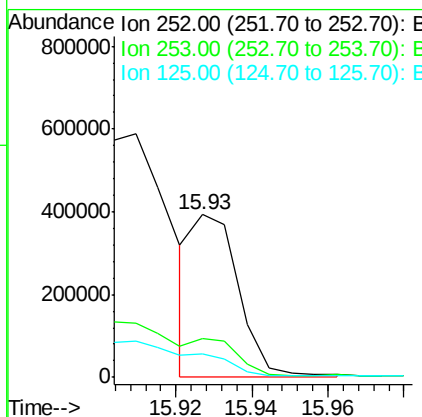
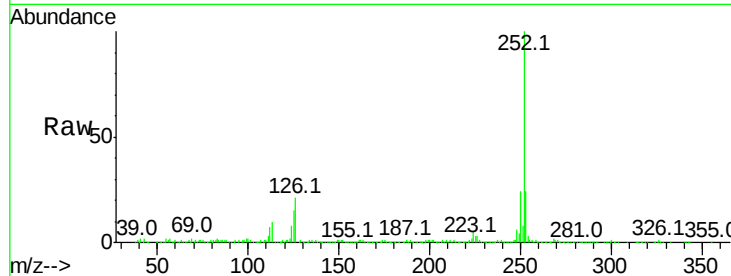
#88
Benzo(k)fluoranthene
Concen: 16.88 ng m
RT: 15.93 min Scan# 2387
Delta R.T. -0.01 min
Lab File: BF093943.D
Acq: 27 Mar 2017 14:43

Instrument :
BNA_F
ClientSampleId :
E2-R14-SSWDL

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.8	18.4	27.6
125	14.7	13.1	19.7

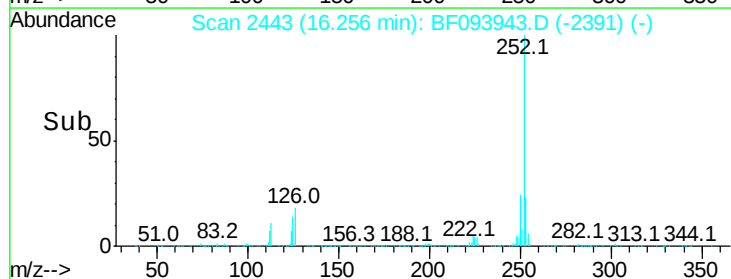
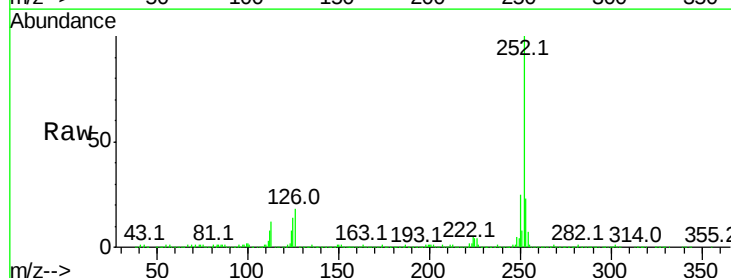
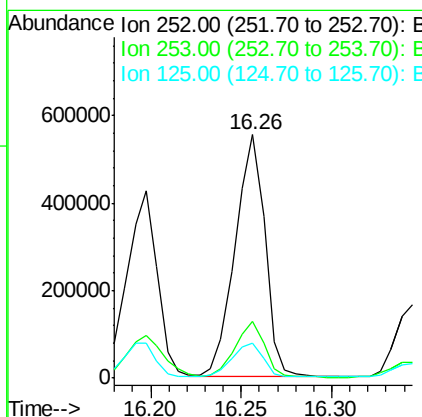
Manual Integrations
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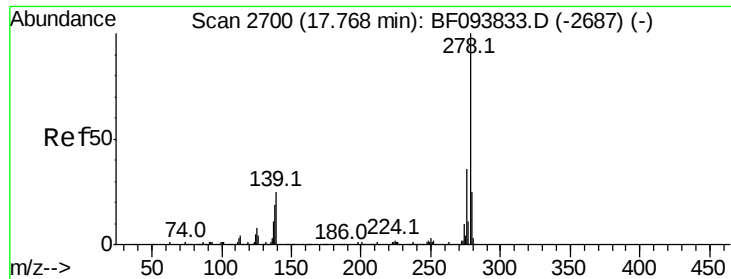
mohammad
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#89
Benzo(a)pyrene
Concen: 34.55 ng
RT: 16.26 min Scan# 2443
Delta R.T. 0.01 min
Lab File: BF093943.D
Acq: 27 Mar 2017 14:43

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.5	26.3
125	14.1	11.0	16.4





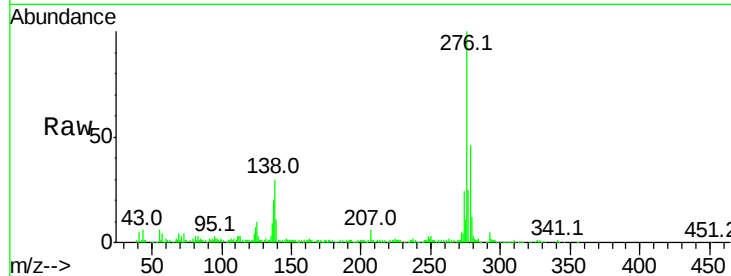
#90
Dibenzo(a,h)anthracene
Concen: 7.02 ng
RT: 17.70 min Scan# 2689
Delta R.T. -0.01 min
Lab File: BF093943.D
Acq: 27 Mar 2017 14:43

Instrument :
BNA_F
ClientSampleId :
E2-R14-SSWDL

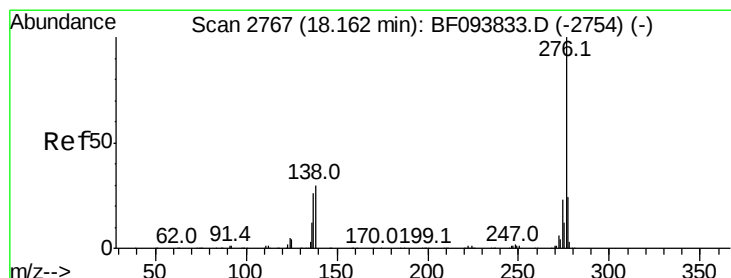
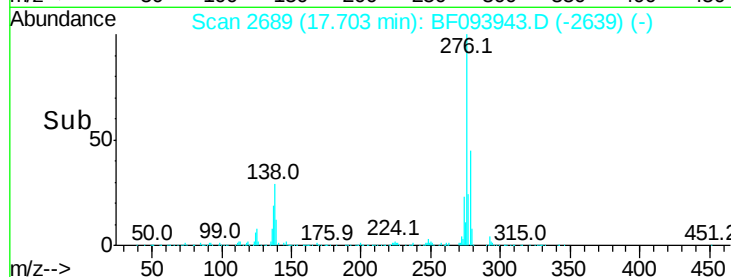
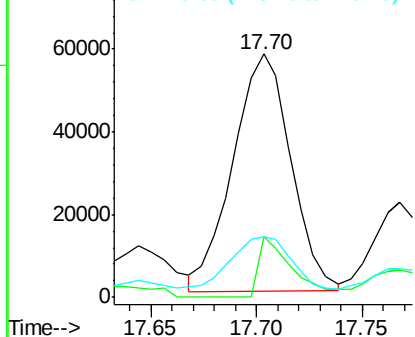
Tot Ion	Ratio	Lower	Upper
278	100		
139	24.7	16.6	24.8
279	25.1	19.3	28.9

Manual Integrations
APPROVED

mohammad
3/28/2017 3:43:03 PM

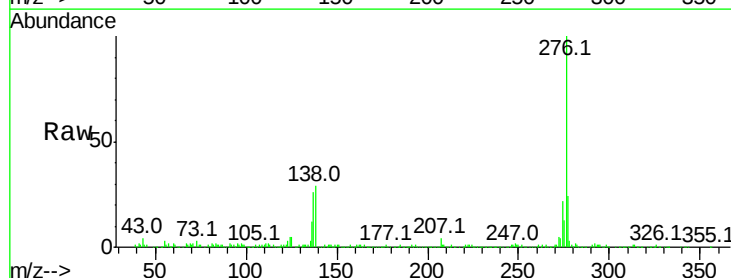


Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E



#91
Benzo(g,h,i)perylene
Concen: 23.75 ng
RT: 18.10 min Scan# 2757
Delta R.T. 0.01 min
Lab File: BF093943.D
Acq: 27 Mar 2017 14:43

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.5	18.6	28.0
138	29.3	25.4	38.0



Abundance Ion 276.00 (275.70 to 276.70): E
Ion 277.00 (276.70 to 277.70): E
Ion 138.00 (137.70 to 138.70): E

