

Data Path : Z:\HPCHEM1\BNA F\DATA\BF082917\
 Data File : BF098124.D
 Acq On : 29 Aug 2017 21:29
 Operator : SJ/JU
 Sample : I4994-04 20X
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 EO-01-082517-B

Manual Integrations
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Sohil
 8/30/2017 6:45:05 PM

Quant Time: Aug 30 05:55:20 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Aug 21 15:59:04 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.73	152	119548	20.00	ng	-0.02
21) Naphthalene-d8	8.02	136	467754	20.00	ng	-0.02
38) Acenaphthene-d10	9.77	164	190271	20.00	ng	-0.02
63) Phenanthrene-d10	11.25	188	299390	20.00	ng	-0.01
75) Chrysene-d12	13.89	240	240803	20.00	ng	-0.01
86) Perylene-d12	15.30	264	203660	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.33	112	46095	5.86	ng	-0.02
7) Phenol-d6	6.36	99	66161	6.20	ng	-0.03
23) Nitrobenzene-d5	7.29	82	38381	4.46	ng	-0.03
41) 2,4,6-Tribromophenol	10.56	330	7593	4.60	ng	-0.02
44) 2-Fluorobiphenyl	9.09	172	67727	5.23	ng	-0.02
78) Terphenyl-d14	12.83	244	41123	3.56	ng	-0.02

Target Compounds				Qvalue		
31) Naphthalene	8.04	128	53669	2.210	ng	98
37) 2-Methylnaphthalene	8.73	142	46198	3.103	ng	97
48) Acenaphthylene	9.63	152	41036	2.038	ng	98
54) Dibenzofuran	9.97	168	43366	2.548	ng	98
57) Fluorene	10.32	166	92031	6.995	ng	95
70) Phenanthrene	11.27	178	395634	24.799	ng	99
71) Anthracene	11.33	178	97615	6.033	ng	98
74) Fluoranthene	12.46	202	329921	19.813	ng	99
77) Pyrene	12.69	202	300650	15.265	ng	98
80) Benzo(a)anthracene	13.87	228	140110	9.708	ng	96
82) Chrysene	13.91	228	116826	8.137	ng	98
85) Indeno(1,2,3-cd)pyrene	16.67	276	38722	3.666	ng	94
87) Benzo(b)fluoranthene	14.90	252	119689m	9.324	ng	
88) Benzo(k)fluoranthene	14.92	252	43758m	3.628	ng	
89) Benzo(a)pyrene	15.24	252	90750	7.985	ng	98
91) Benzo(g,h,i)perylene	17.09	276	35594	3.687	ng	97

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

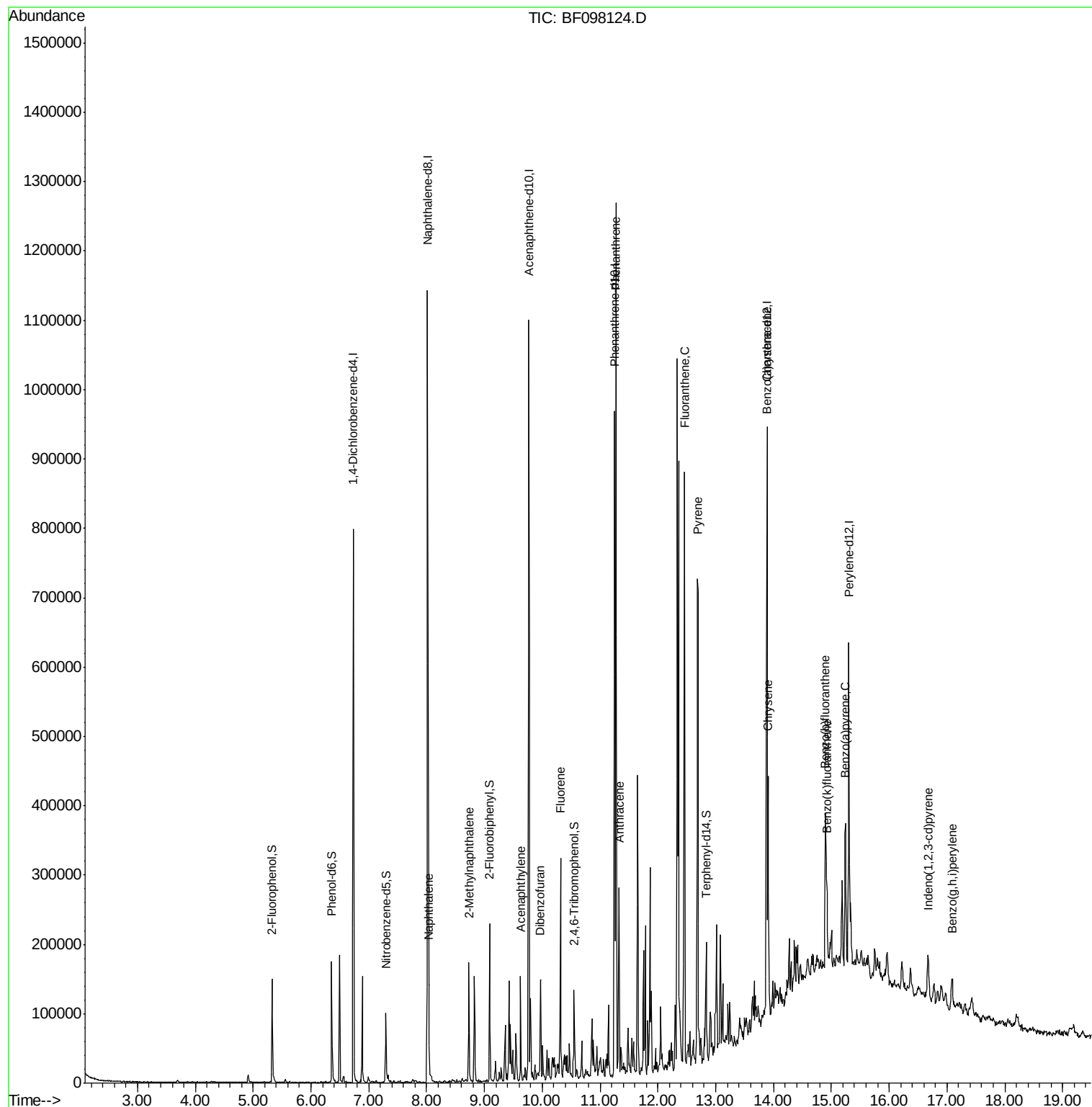
Data Path : Z:\HPCHEM1\BNA F\DATA\BF082917\
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ALS Vial : 18 Sample Multiplier: 1

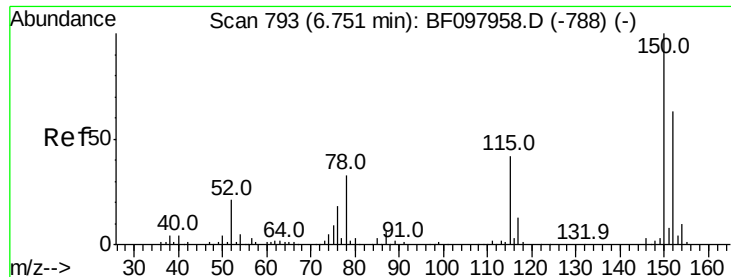
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#1

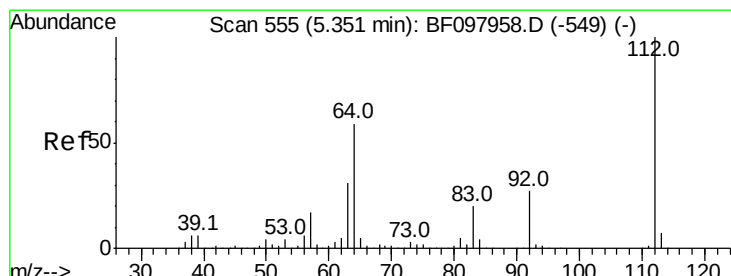
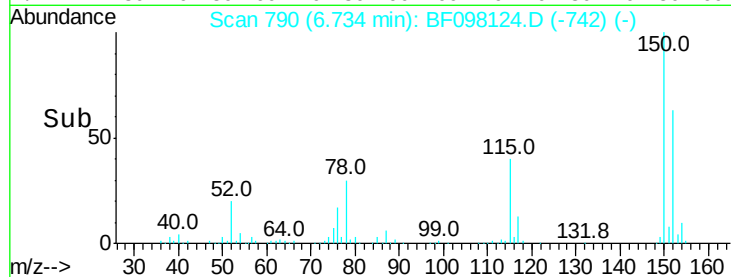
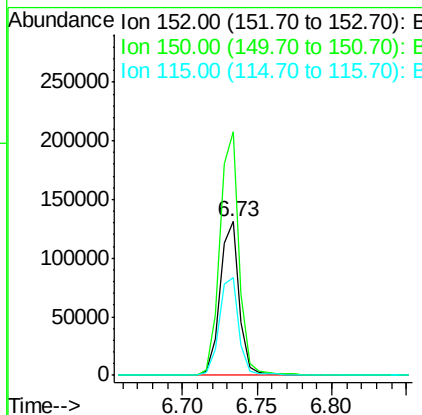
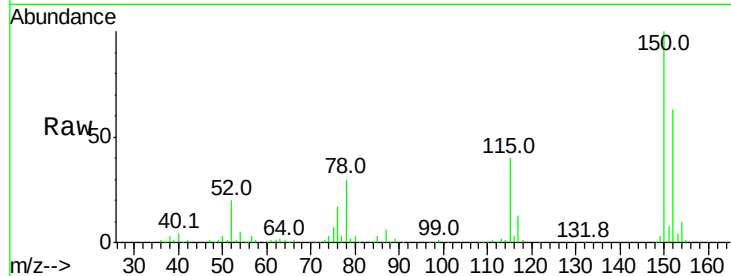
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.73 min Scan# 790
Delta R.T. -0.02 min
Lab File: BF098124.D
Acq: 29 Aug 2017 21:29

Instrument :
BNA_F
ClientSampleId :
EO-01-082517-B

Tot Ion	Ratio	Lower	Upper
152	100		
150	158.6	126.2	189.2
115	63.7	52.2	78.2

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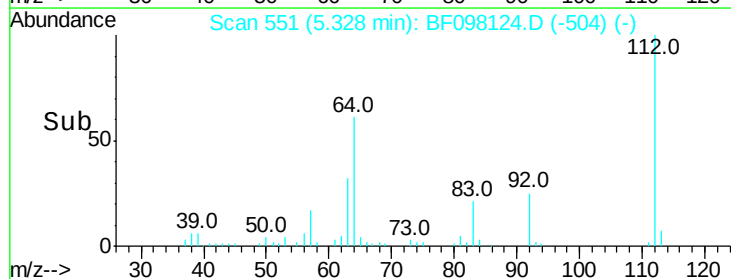
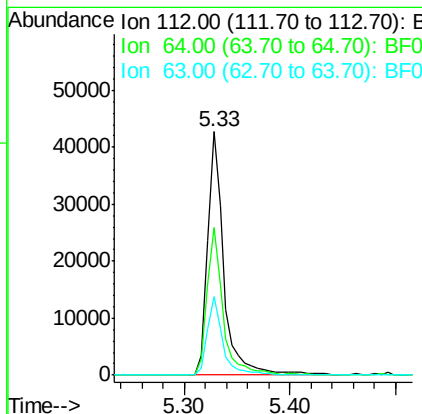
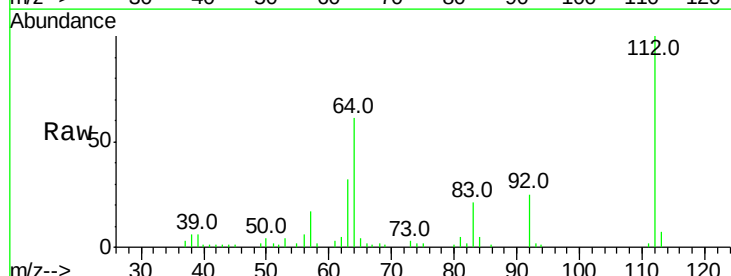
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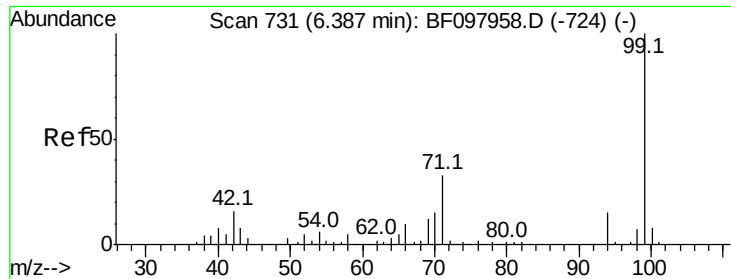


#5

2-Fluorophenol
Concen: 5.865 ng
RT: 5.33 min Scan# 551
Delta R.T. -0.02 min
Lab File: BF098124.D
Acq: 29 Aug 2017 21:29

Tgt Ion	Ratio	Lower	Upper
112	100		
64	60.8	46.0	69.0
63	32.4	23.4	35.0





#7

Phenol-d6

Concen: 6.196 ng

RT: 6.36 min Scan# 726

Delta R.T. -0.03 min

Lab File: BF098124.D

Acq: 29 Aug 2017 21:29

Instrument :

BNA_F

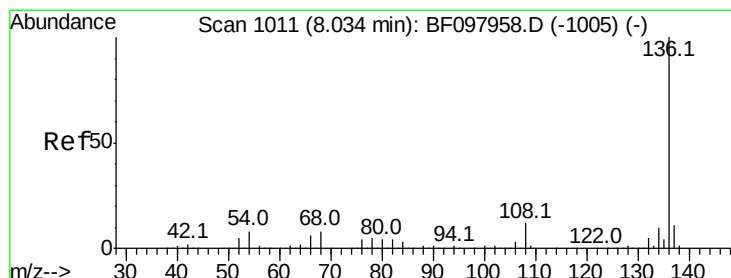
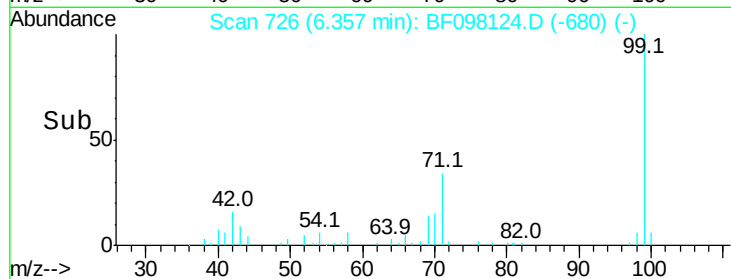
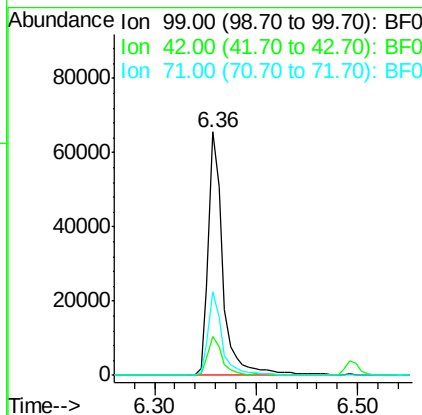
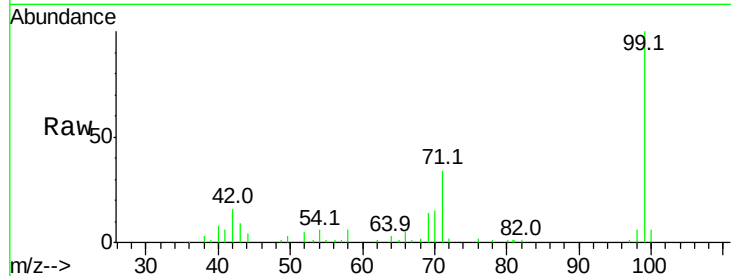
ClientSampleId :

EO-01-082517-B

Tot Ion:	99	Resp:	66161
Ion Ratio	Lower	Upper	
99	100		
42	15.8	13.5	20.3
71	34.2	24.5	36.7

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#21

Naphthalene-d8

Concen: 20.000 ng

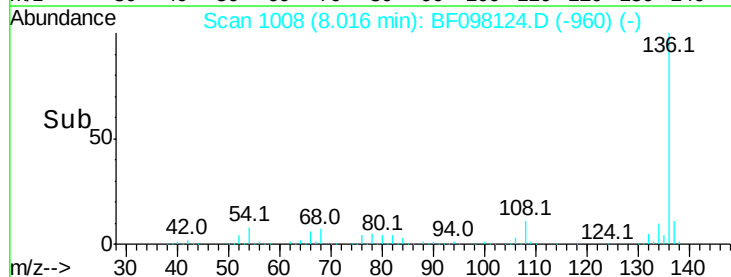
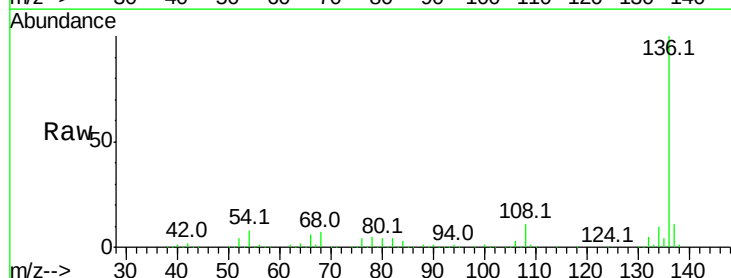
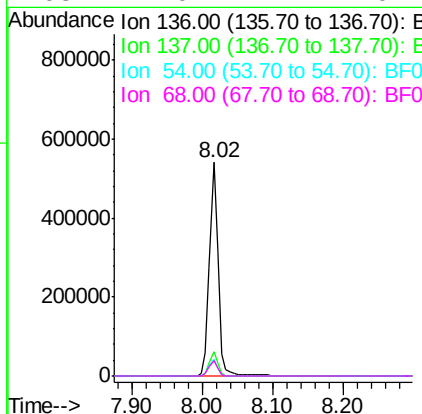
RT: 8.02 min Scan# 1008

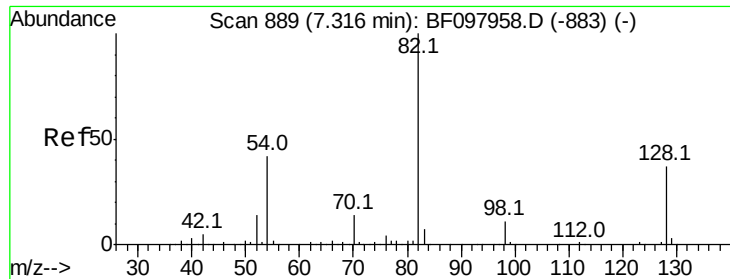
Delta R.T. -0.02 min

Lab File: BF098124.D

Acq: 29 Aug 2017 21:29

Tgt Ion:	136	Resp:	467754
Ion Ratio	Lower	Upper	
136	100		
137	11.3	8.5	12.7
54	8.0	4.9	7.3#
68	7.0	4.1	6.1#





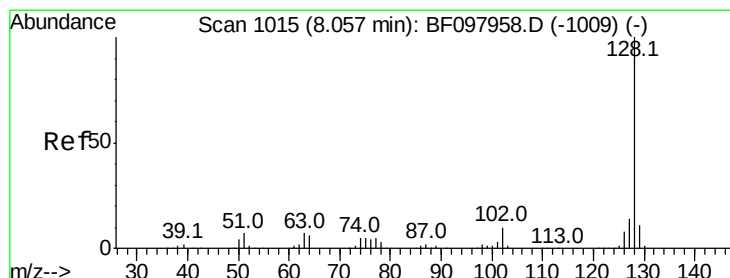
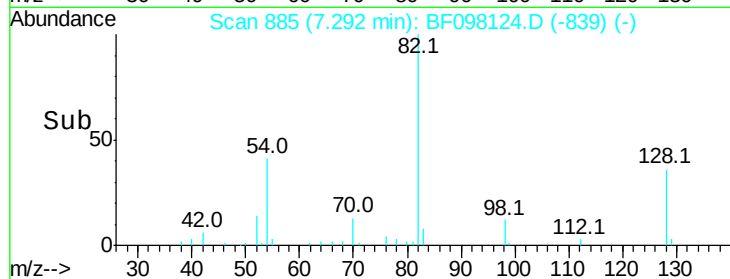
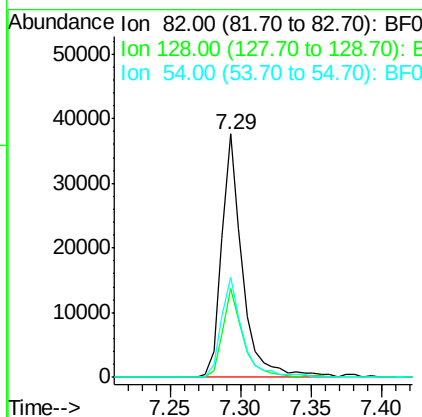
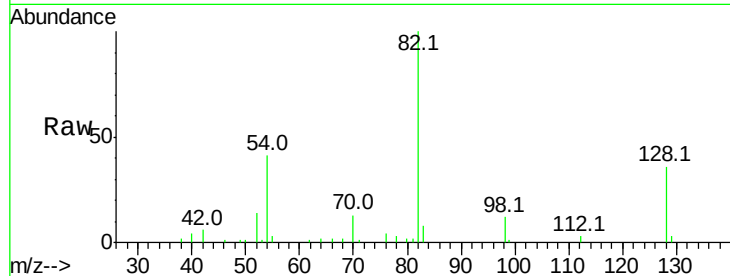
#23
 Nitrobenzene-d5
 Concen: 4.458 ng
 RT: 7.29 min Scan# 885
 Delta R.T. -0.03 min
 Lab File: BF098124.D
 Acq: 29 Aug 2017 21:29

Instrument :
 BNA_F
 ClientSampleId :
 EO-01-082517-B

Tot Ion	Ratio	Lower	Upper
82	100		
128	36.4	34.0	51.0
54	41.0	42.2	63.2#

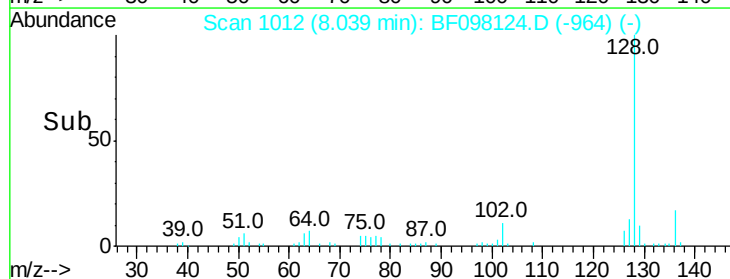
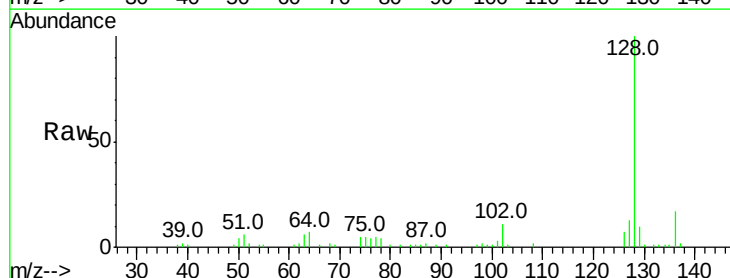
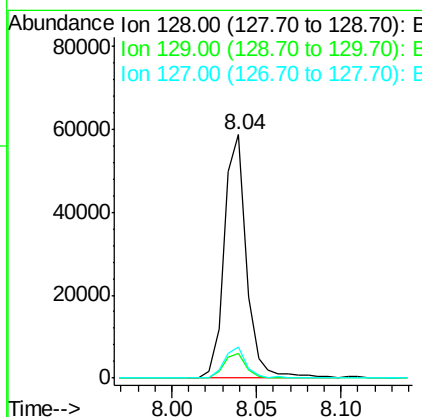
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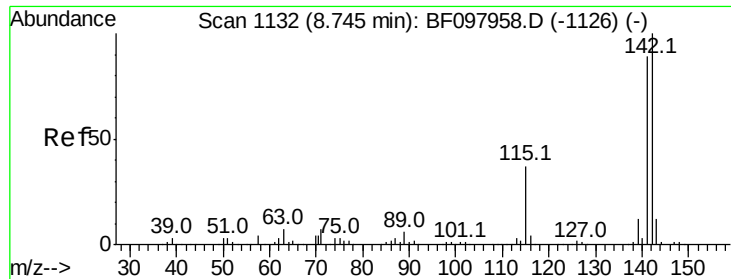
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#31
 Naphthalene
 Concen: 2.210 ng
 RT: 8.04 min Scan# 1012
 Delta R.T. -0.02 min
 Lab File: BF098124.D
 Acq: 29 Aug 2017 21:29

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.1	9.0	13.6
127	13.0	10.8	16.2





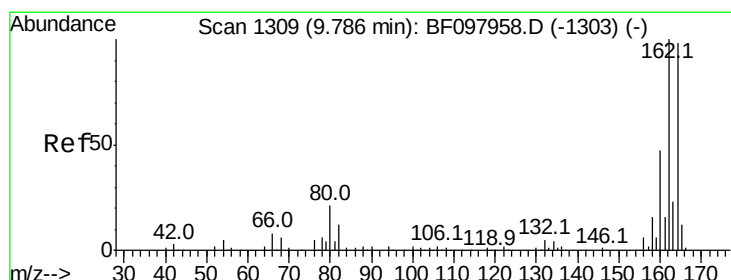
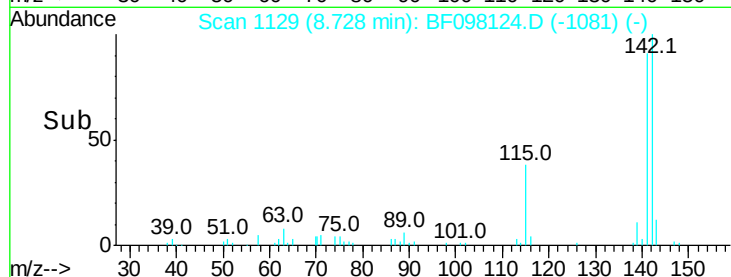
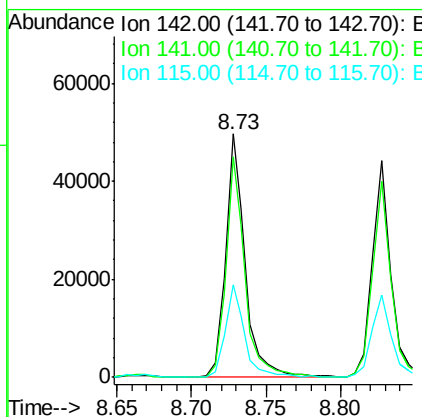
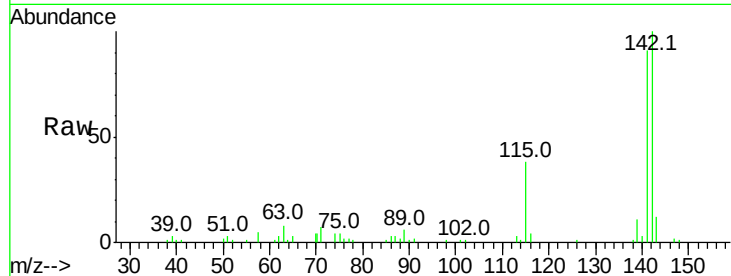
#37
 2-Methylnaphthalene
 Concen: 3.103 ng
 RT: 8.73 min Scan# 1129
 Delta R.T. -0.02 min
 Lab File: BF098124.D
 Acq: 29 Aug 2017 21:29

Instrument :
 BNA_F
 ClientSampleId :
 EO-01-082517-B

Tot Ion	Ratio	Lower	Upper
142	100		
141	90.8	71.3	106.9
115	38.2	27.1	40.7

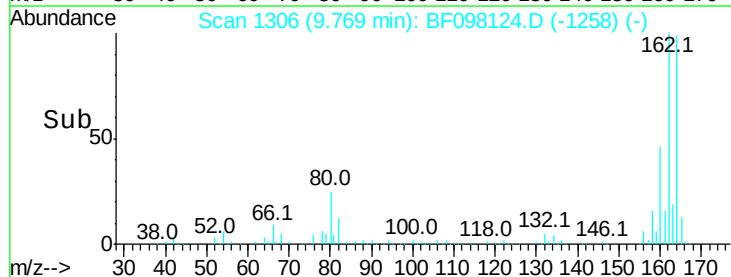
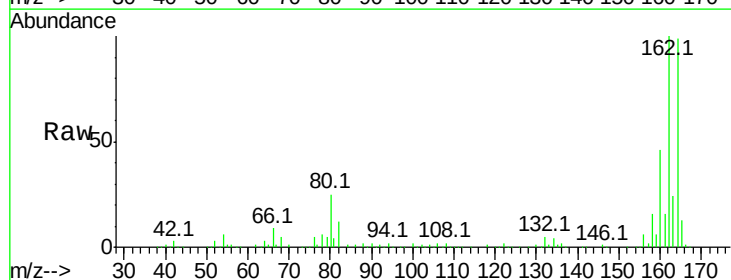
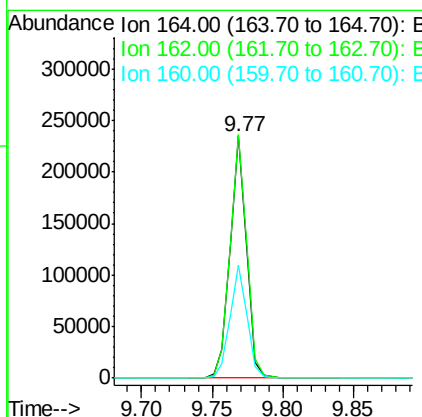
Manual Integrations
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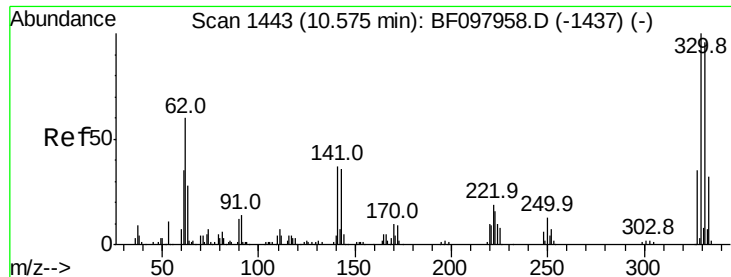
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#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.77 min Scan# 1306
 Delta R.T. -0.02 min
 Lab File: BF098124.D
 Acq: 29 Aug 2017 21:29

Tgt Ion	Ratio	Lower	Upper
164	100		
162	100.6	82.6	123.8
160	46.7	36.2	54.2





#41

2,4,6-Tribromophenol

Concen: 4.599 ng

RT: 10.56 min Scan# 1440

Delta R.T. -0.02 min

Lab File: BF098124.D

Acq: 29 Aug 2017 21:29

Instrument :

BNA_F

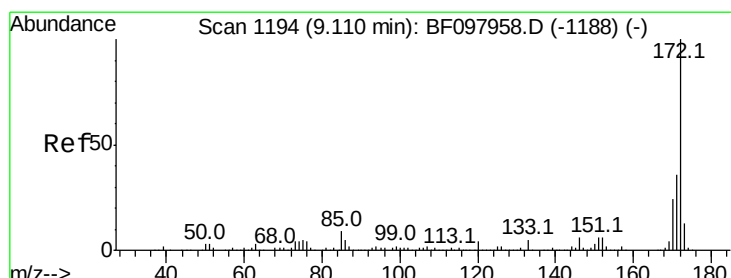
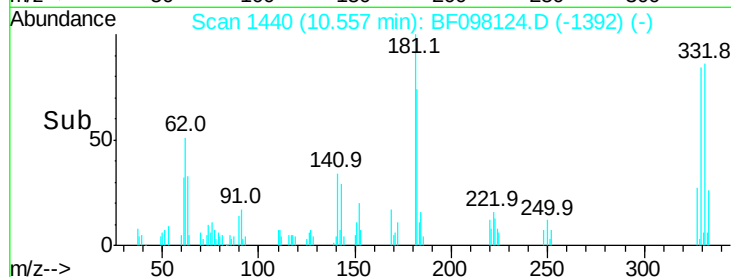
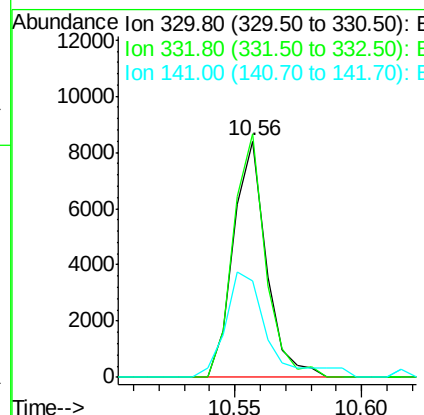
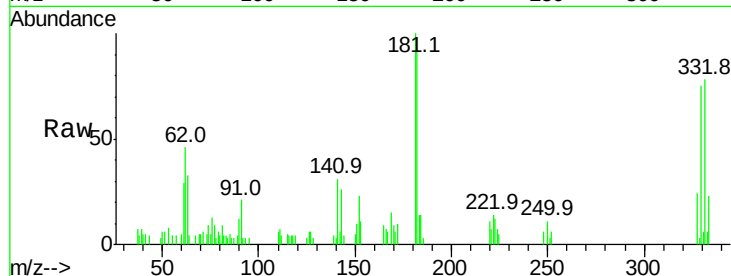
ClientSampleId :

EO-01-082517-B

Tot Ion:	330	Resp:	7593
Ion Ratio	Lower	Upper	
330	100		
332	100.9	76.6	115.0
141	57.1	31.4	47.2#

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#44

2-Fluorobiphenyl

Concen: 5.230 ng

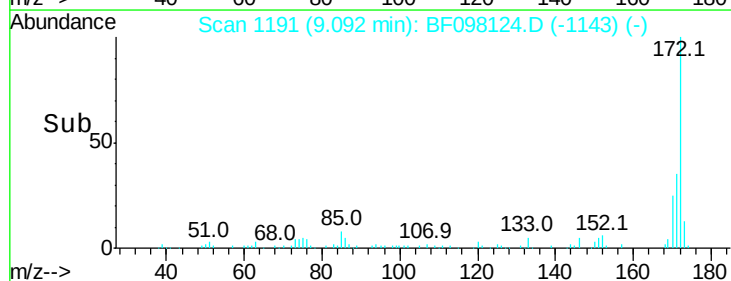
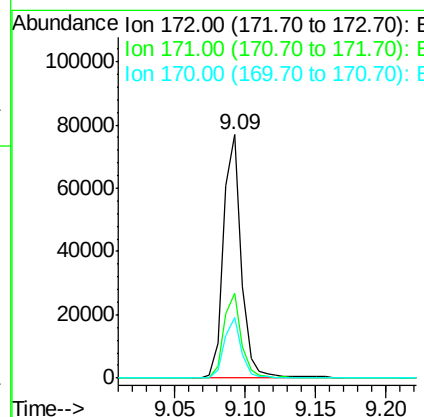
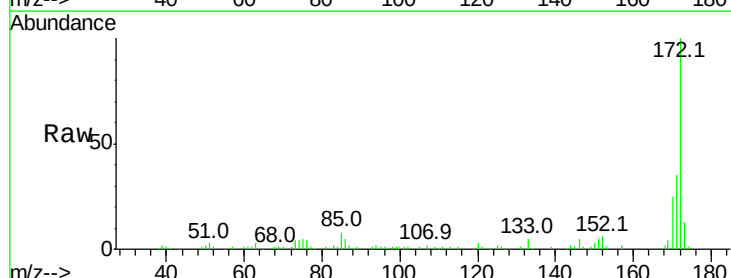
RT: 9.09 min Scan# 1191

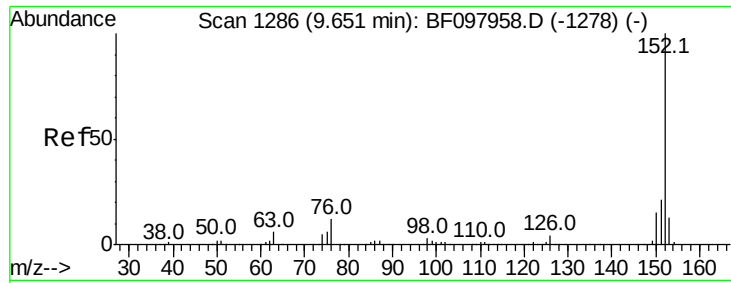
Delta R.T. -0.02 min

Lab File: BF098124.D

Acq: 29 Aug 2017 21:29

Tgt Ion:	172	Resp:	67727
Ion Ratio	Lower	Upper	
172	100		
171	35.1	29.6	44.4
170	24.9	19.8	29.8





#48

Acenaphthylene

Concen: 2.038 ng

RT: 9.63 min Scan# 1282

Delta R.T. -0.02 min

Lab File: BF098124.D

Acq: 29 Aug 2017 21:29

Instrument :

BNA_F

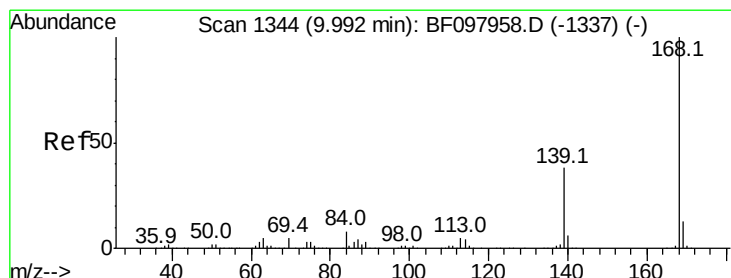
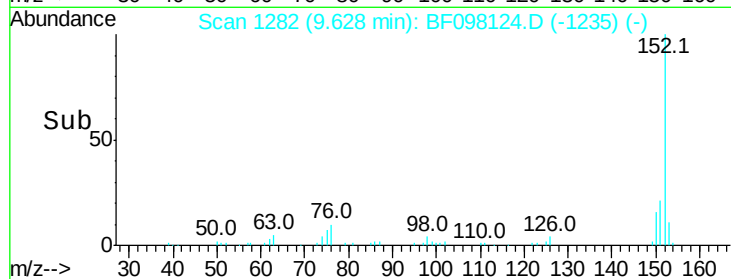
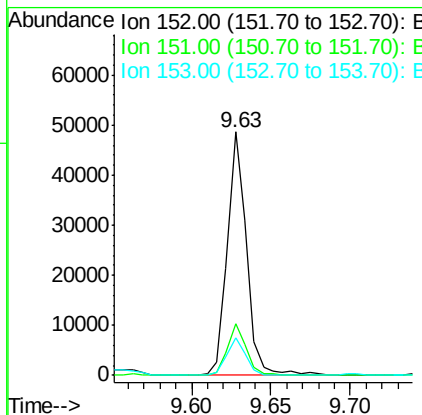
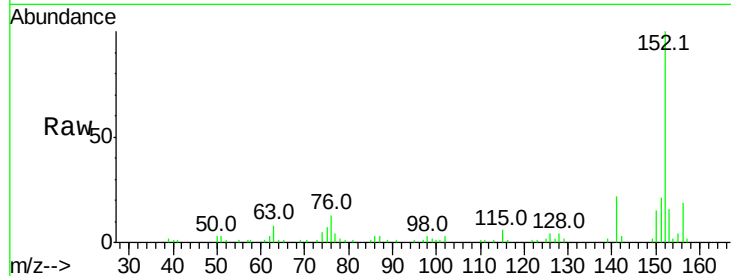
ClientSampleId :

EO-01-082517-B

Tot Ion:	152	Resp:	41036
Ion Ratio	Lower	Upper	
152	100		
151	21.0	16.8	25.2
153	15.5	10.8	16.2

Manual Integrations
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#54

Dibenzofuran

Concen: 2.548 ng

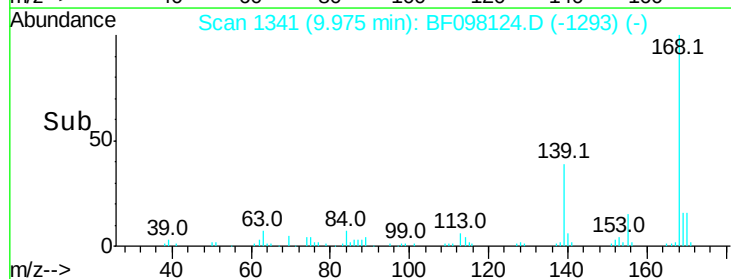
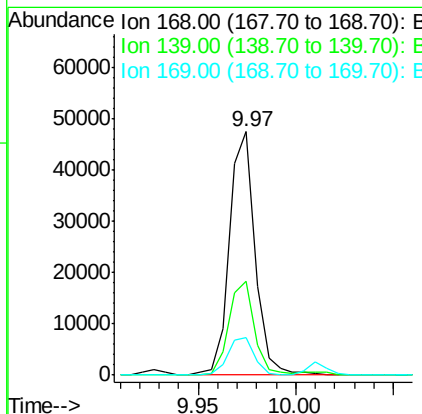
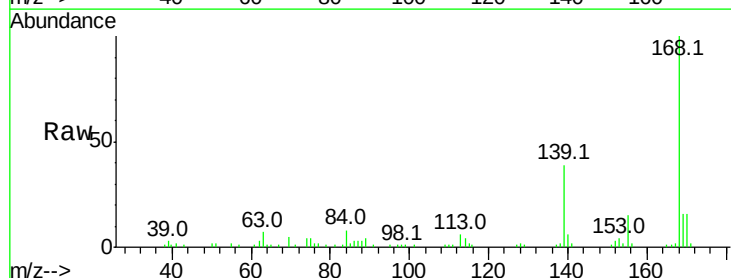
RT: 9.97 min Scan# 1341

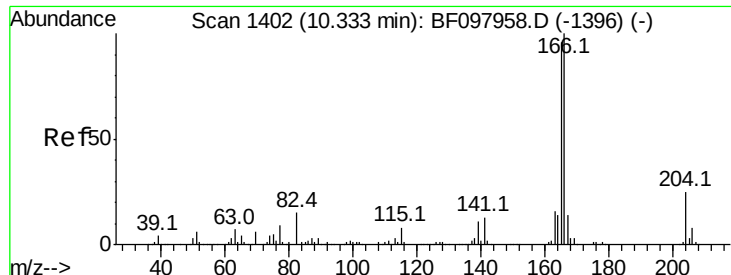
Delta R.T. -0.02 min

Lab File: BF098124.D

Acq: 29 Aug 2017 21:29

Tgt Ion:	168	Resp:	43366
Ion Ratio	Lower	Upper	
168	100		
139	38.6	30.6	45.8
169	15.6	10.8	16.2





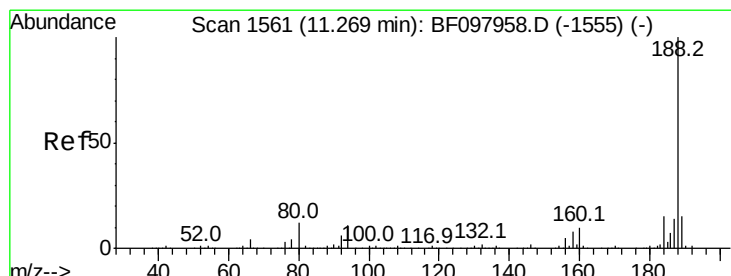
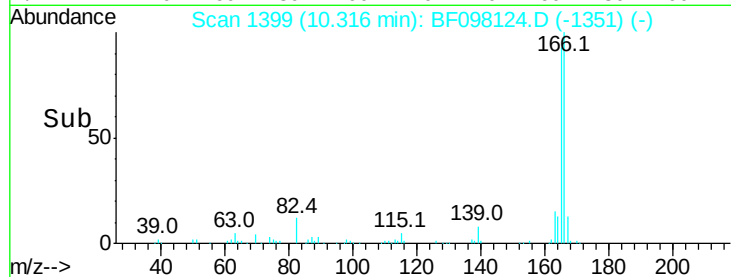
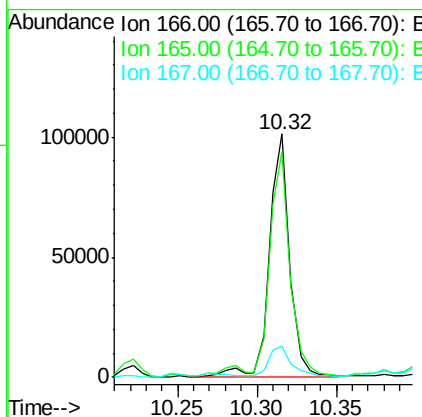
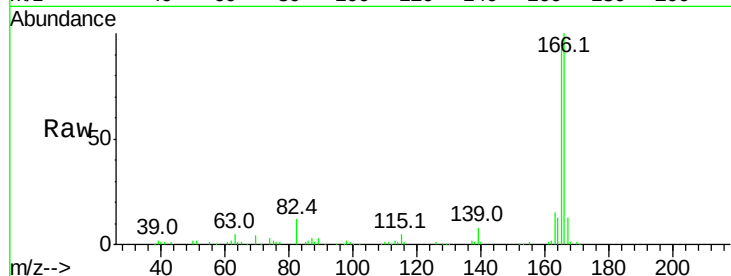
#57
Fluorene
 Concen: 6.995 ng
 RT: 10.32 min Scan# 1399
 Delta R.T. -0.02 min
 Lab File: BF098124.D
 Acq: 29 Aug 2017 21:29

Instrument :
 BNA_F
 ClientSampleId :
 EO-01-082517-B

Tot Ion	Ratio	Resp	Lower	Upper
166	100	92031		
165	92.7		78.8	118.2
167	12.9		10.6	16.0

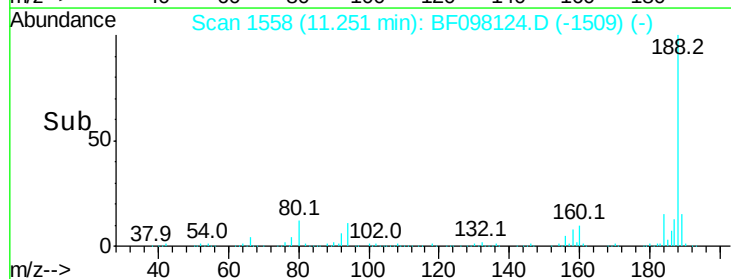
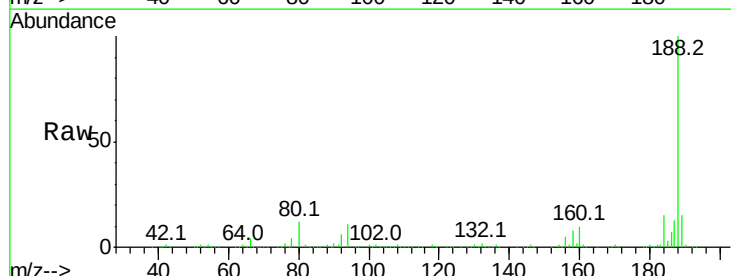
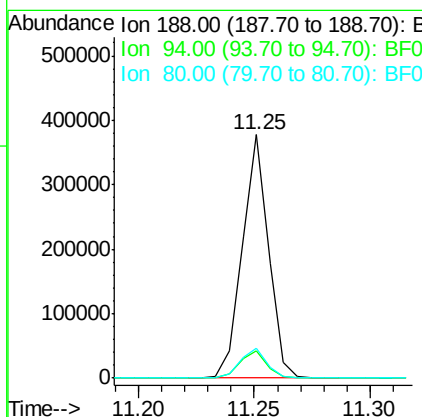
Manual Integrations
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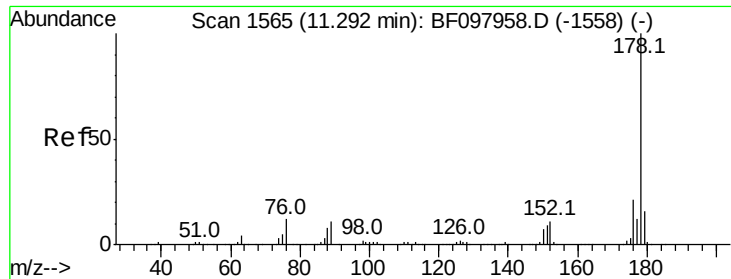
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#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.25 min Scan# 1558
 Delta R.T. -0.01 min
 Lab File: BF098124.D
 Acq: 29 Aug 2017 21:29

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	299390		
94	11.0		9.4	14.2
80	12.1		10.2	15.2





#70

Phenanthrene

Concen: 24.799 ng

RT: 11.27 min Scan# 1562

Delta R.T. -0.02 min

Lab File: BF098124.D

Acq: 29 Aug 2017 21:29

Instrument :

BNA_F

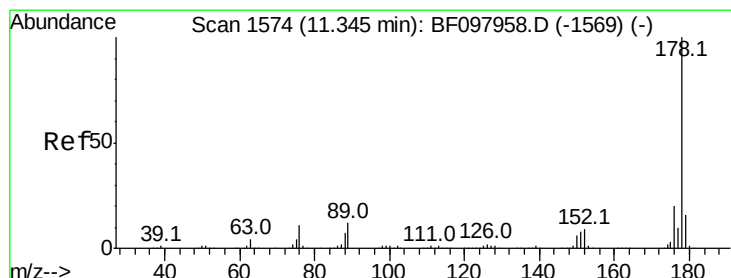
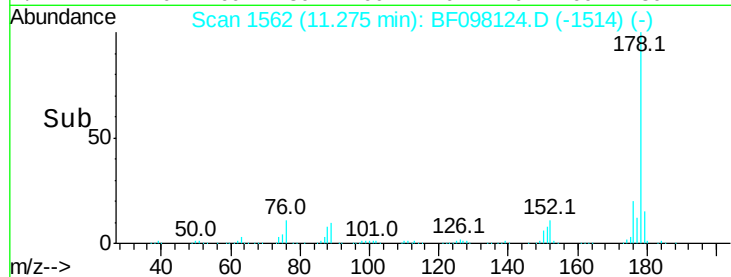
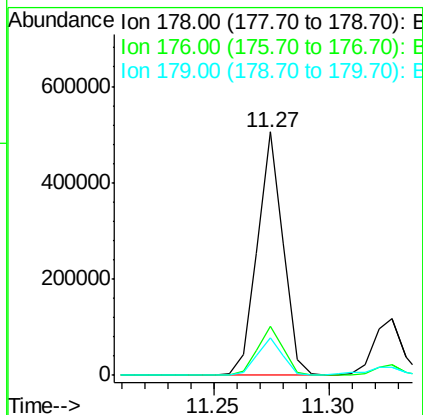
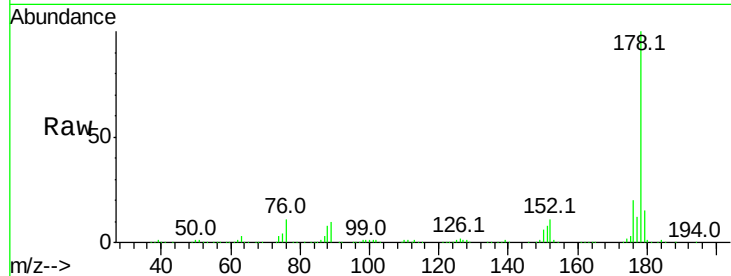
ClientSampleId :

EO-01-082517-B

Tot Ion:178	Resp:	395634
Ion Ratio	Lower	Upper
178	100	
176	19.9	16.2 24.4
179	15.3	12.6 19.0

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#71

Anthracene

Concen: 6.033 ng

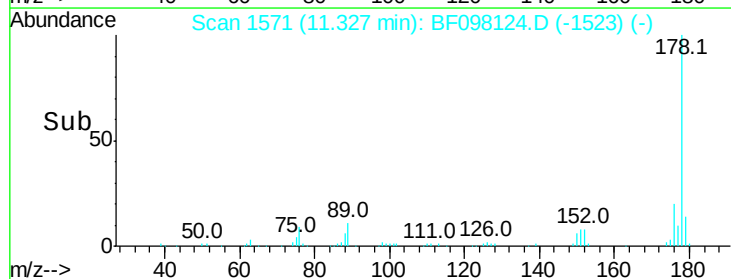
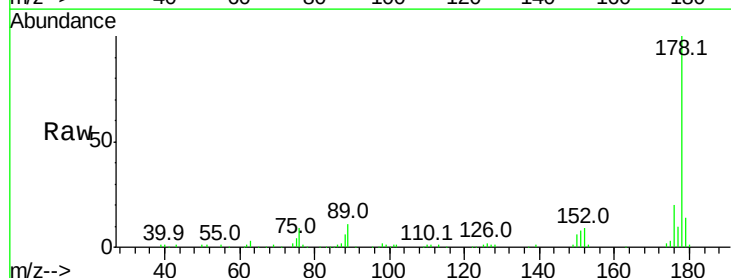
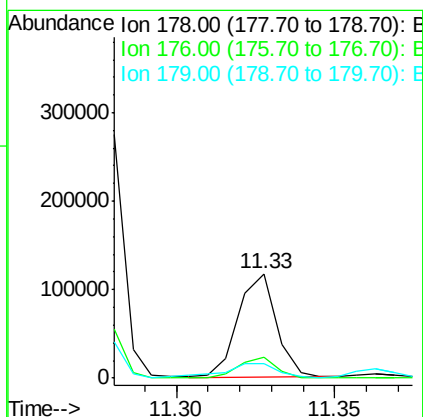
RT: 11.33 min Scan# 1571

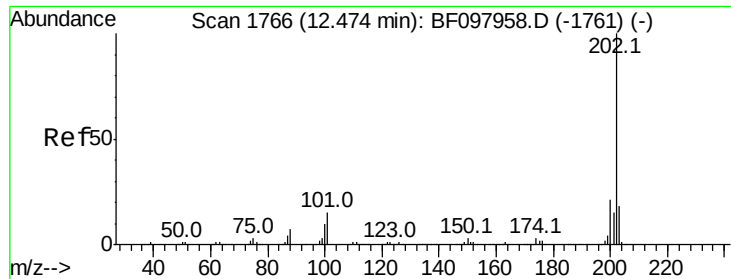
Delta R.T. -0.02 min

Lab File: BF098124.D

Acq: 29 Aug 2017 21:29

Tgt Ion:178	Resp:	97615
Ion Ratio	Lower	Upper
178	100	
176	19.6	15.8 23.8
179	14.4	12.7 19.1





#74

Fluoranthene

Concen: 19.813 ng

RT: 12.46 min Scan# 1764

Delta R.T. -0.01 min

Lab File: BF098124.D

Acq: 29 Aug 2017 21:29

Instrument :

BNA_F

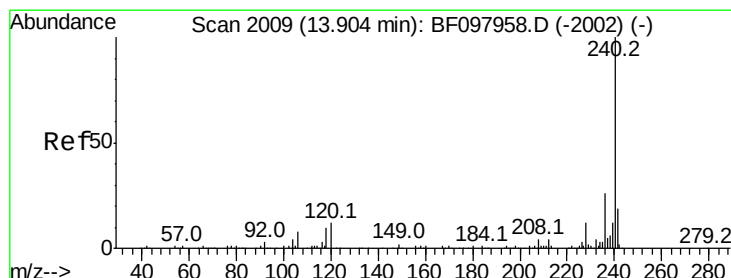
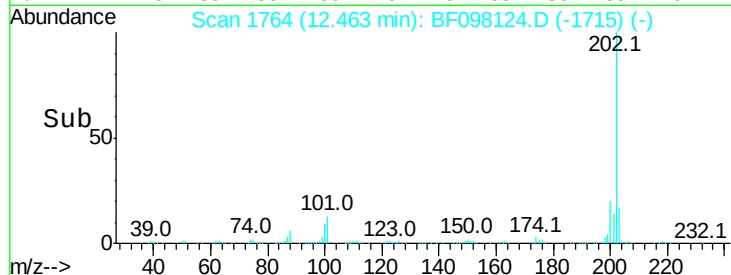
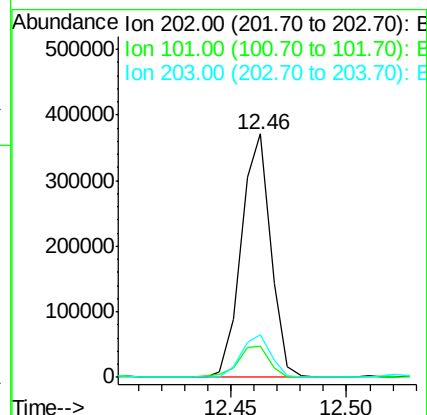
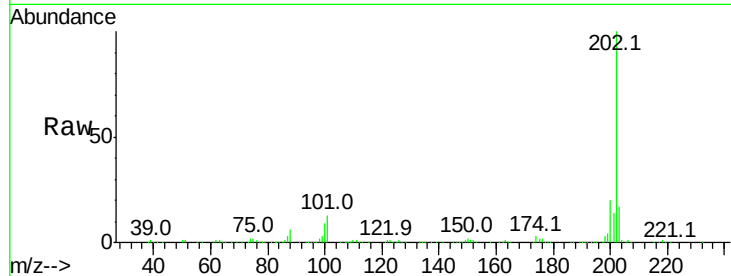
ClientSampleId :

EO-01-082517-B

Tot Ion	Ratio	Resp	Lower	Upper
202	100			
101	12.8	0.0	33.2	
203	17.4	0.0	38.1	

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#75

Chrysene-d12

Concen: 20.000 ng

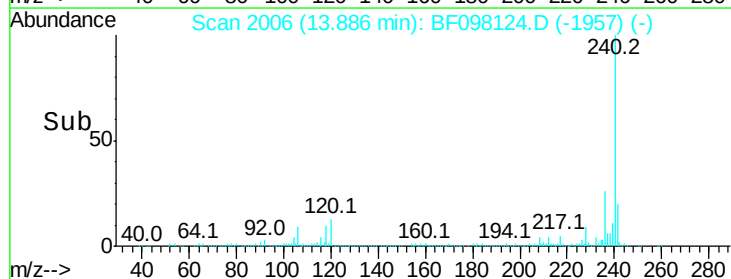
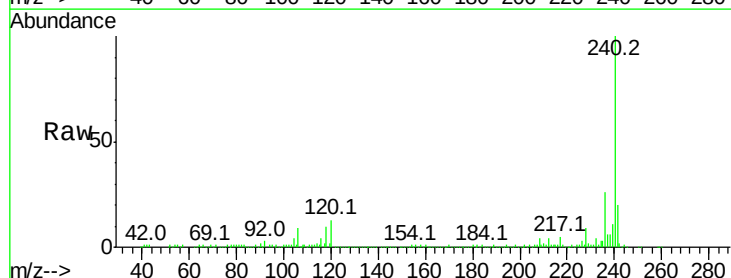
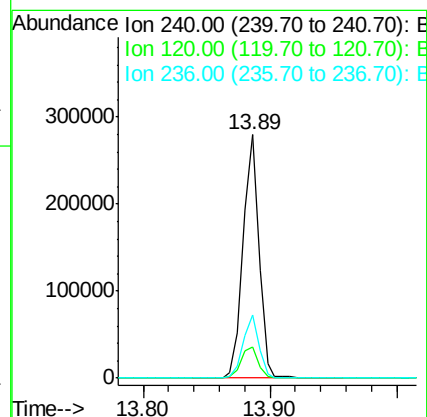
RT: 13.89 min Scan# 2006

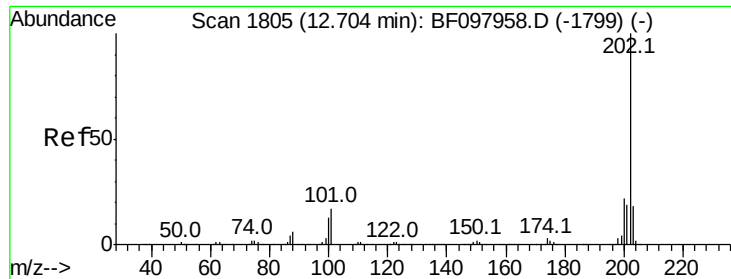
Delta R.T. -0.01 min

Lab File: BF098124.D

Acq: 29 Aug 2017 21:29

Tgt Ion	Ratio	Resp	Lower	Upper
240	100			
120	12.7	5.8	8.8#	
236	26.1	20.5	30.7	





#77

Pvrene

Concen: 15.265 ng

RT: 12.69 min Scan# 1803

Delta R.T. -0.01 min

Lab File: BF098124.D

Acq: 29 Aug 2017 21:29

Instrument :

BNA_F

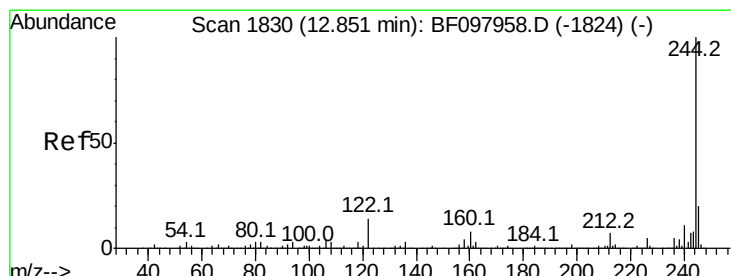
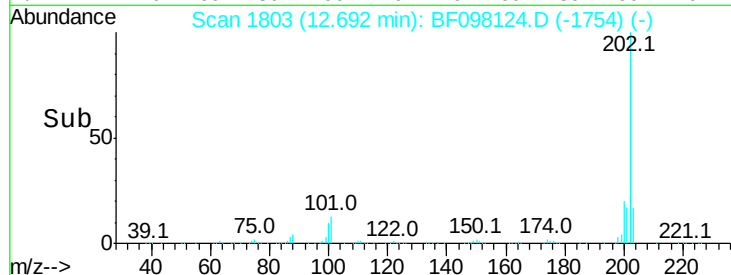
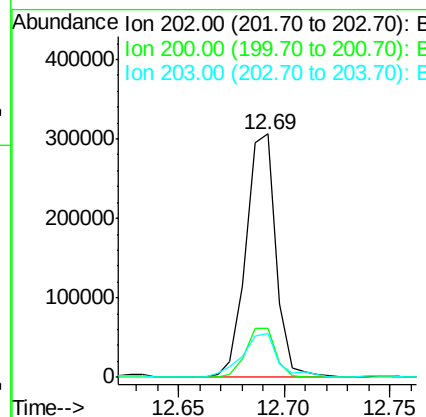
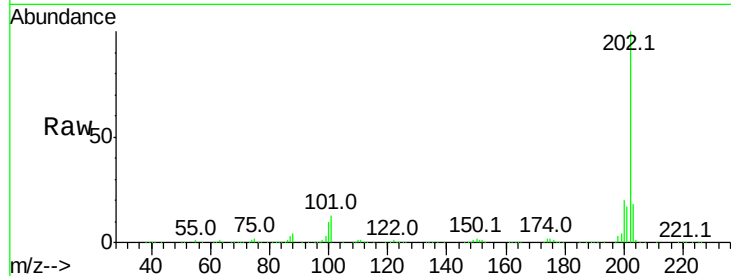
ClientSampled :

EO-01-082517-B

Tot Ion:	202	Resp:	300650
Ion Ratio	Lower	Upper	
202	100		
200	20.2	17.6	26.4
203	17.9	14.4	21.6

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#78

Terphenyl-d14

Concen: 3.561 ng

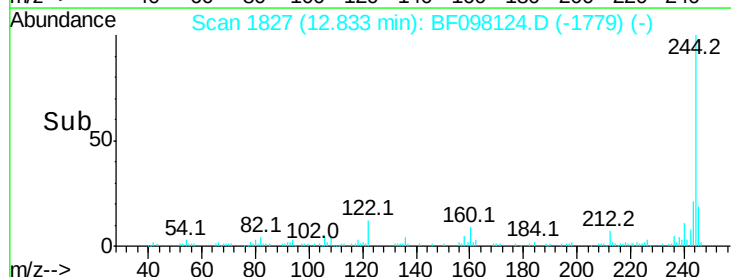
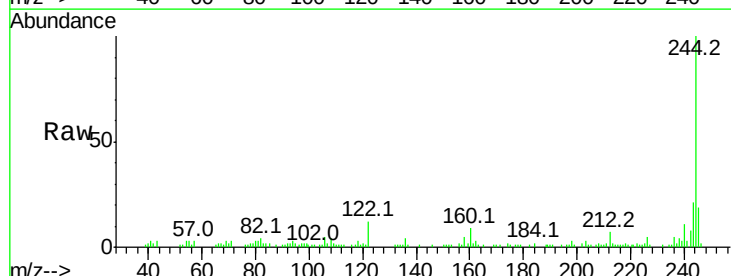
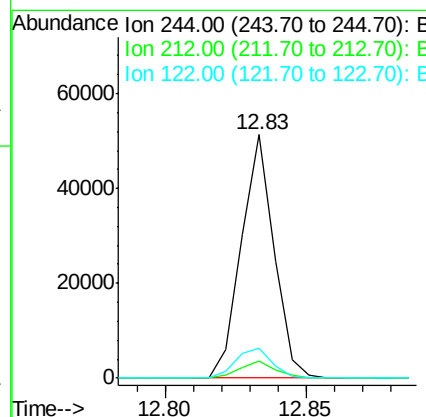
RT: 12.83 min Scan# 1827

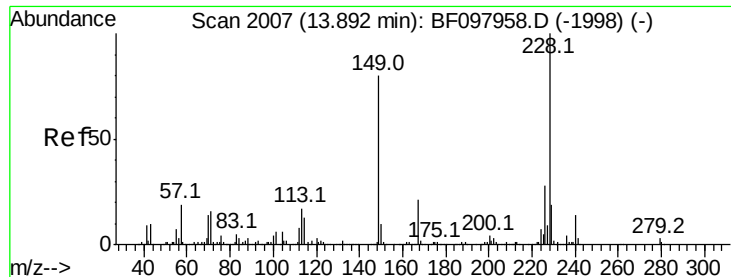
Delta R.T. -0.02 min

Lab File: BF098124.D

Acq: 29 Aug 2017 21:29

Tgt Ion:	244	Resp:	41123
Ion Ratio	Lower	Upper	
244	100		
212	7.1	6.0	9.0
122	12.1	10.3	15.5





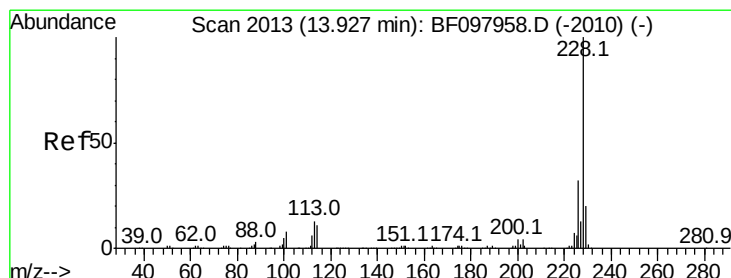
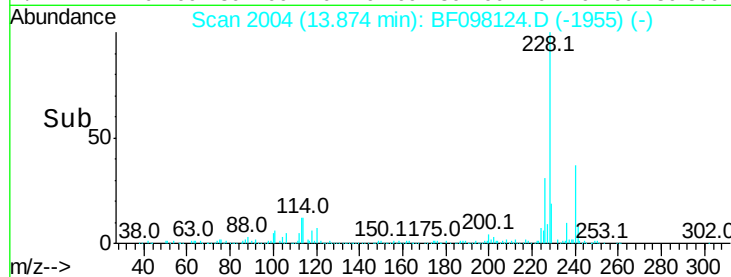
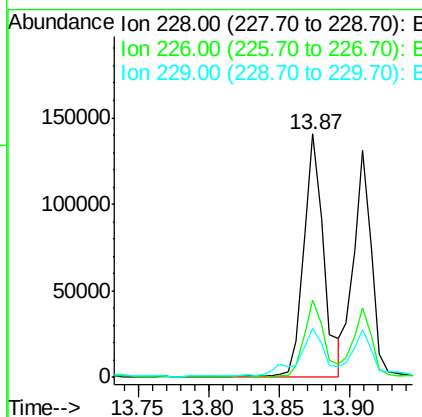
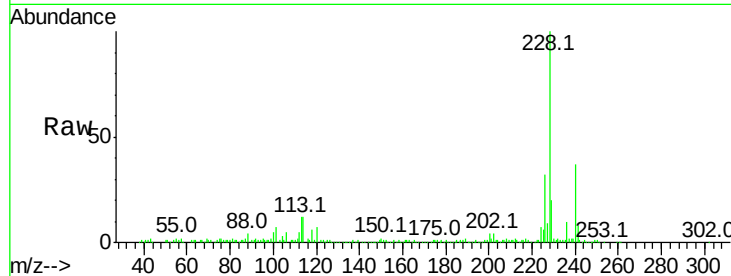
#80
Benzo(a)anthracene
Concen: 9.708 ng
RT: 13.87 min Scan# 2004
Delta R.T. -0.01 min
Lab File: BF098124.D
Acq: 29 Aug 2017 21:29

Instrument :
BNA_F
ClientSampleId :
EO-01-082517-B

Tot Ion:	228	Resp:	140110
Ion Ratio	Lower	Upper	
228	100		
226	31.9	22.6	33.8
229	20.0	16.3	24.5

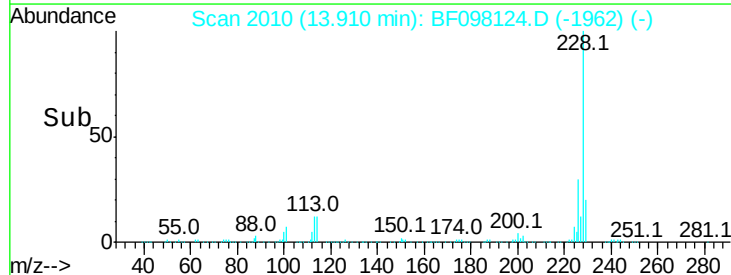
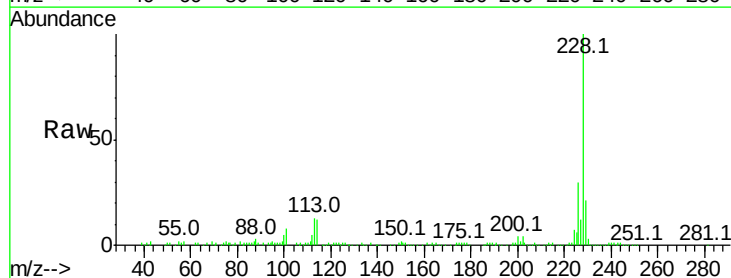
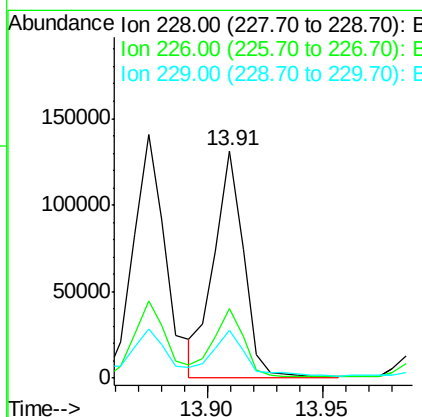
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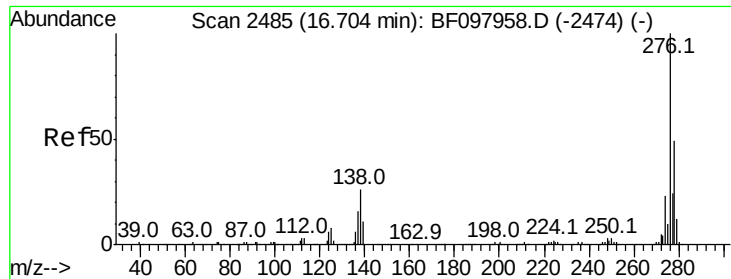
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#82
Chrysene
Concen: 8.137 ng
RT: 13.91 min Scan# 2010
Delta R.T. -0.02 min
Lab File: BF098124.D
Acq: 29 Aug 2017 21:29

Tgt Ion:	228	Resp:	116826
Ion Ratio	Lower	Upper	
228	100		
226	30.4	24.9	37.3
229	20.9	15.8	23.6





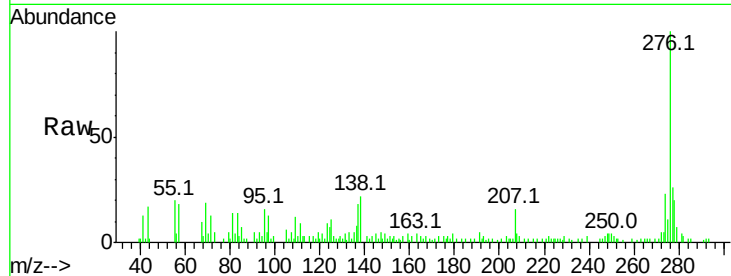
#85
Indeno(1,2,3-cd)pyrene
Concen: 3.666 ng
RT: 16.67 min Scan# 2480
Delta R.T. -0.01 min
Lab File: BF098124.D
Acq: 29 Aug 2017 21:29

Instrument :
BNA_F
ClientSampleId :
EO-01-082517-B

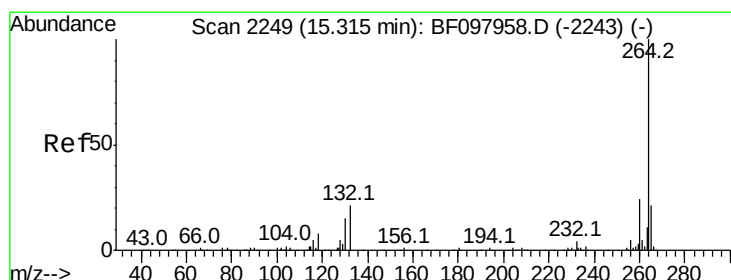
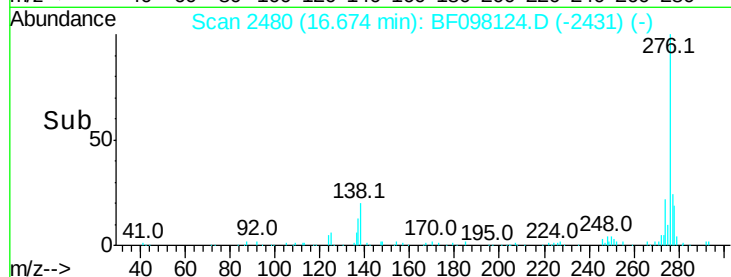
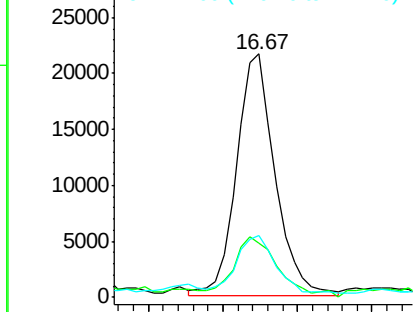
Tot Ion	Ratio	Lower	Upper
276	100		
138	28.8	27.8	41.6
277	24.6	20.2	30.4

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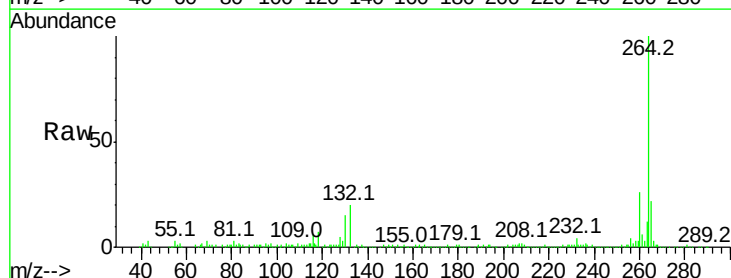


Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E

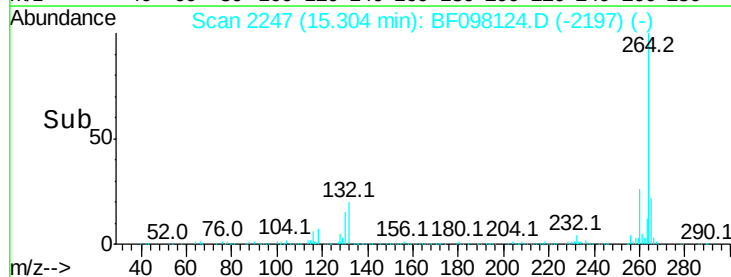
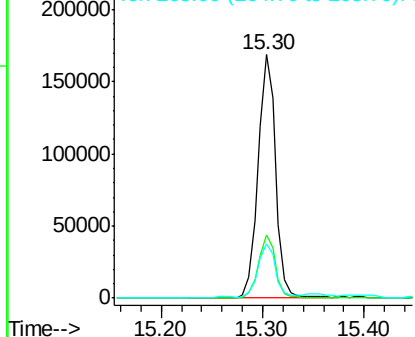


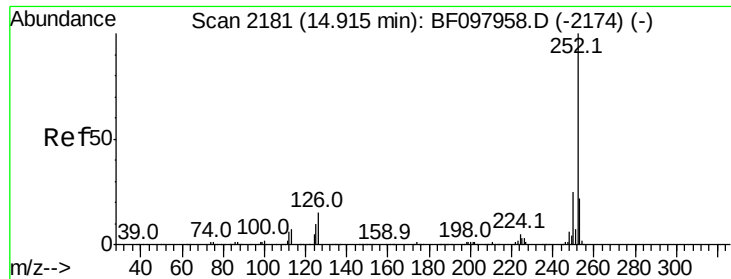
#86
Perylene-d12
Concen: 20.000 ng
RT: 15.30 min Scan# 2247
Delta R.T. -0.01 min
Lab File: BF098124.D
Acq: 29 Aug 2017 21:29

Tgt Ion	Ratio	Lower	Upper
264	100		
260	25.9	19.5	29.3
265	22.2	17.2	25.8



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





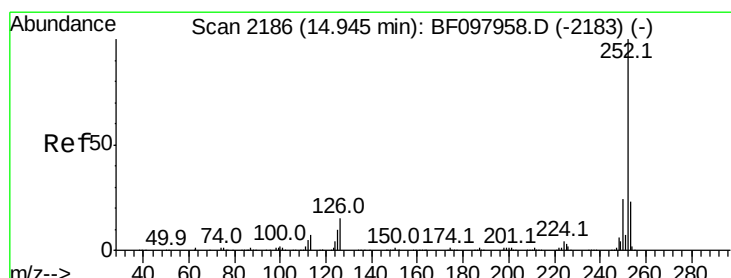
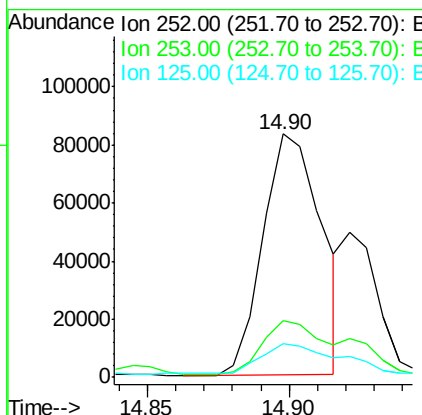
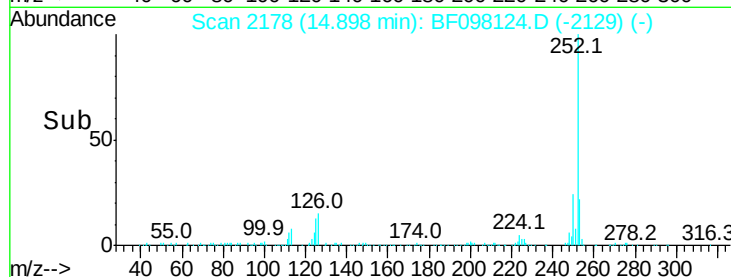
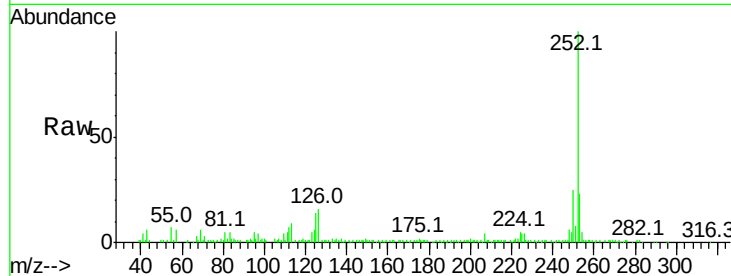
#87
Benzo(b)fluoranthene
Concen: 9.324 ng m
RT: 14.90 min Scan# 2178
Delta R.T. -0.01 min
Lab File: BF098124.D
Acq: 29 Aug 2017 21:29

Instrument :
BNA_F
ClientSampleId :
EO-01-082517-B

Tot Ion	Ion	Ratio	Resp	Lower	Upper
252	100		119689		
253	23.1	18.1	27.1		
125	13.8	9.8	14.8		

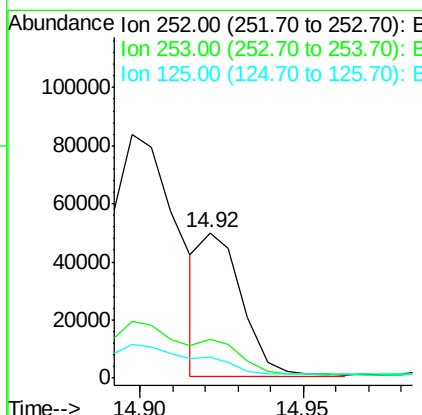
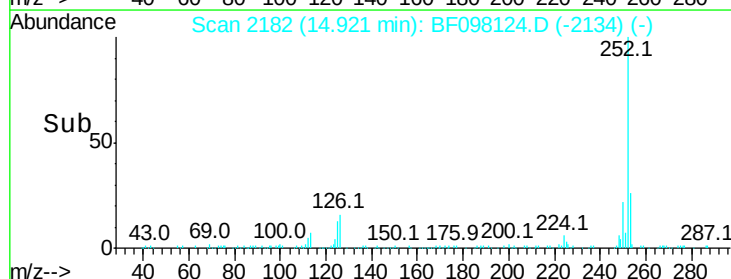
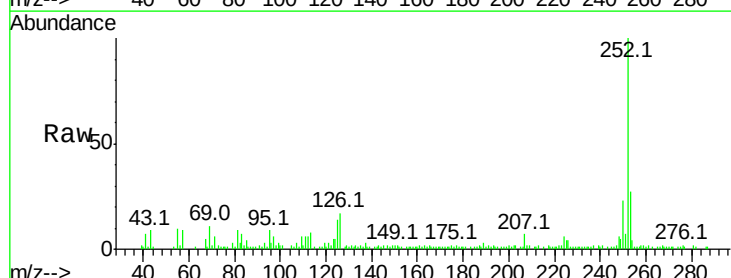
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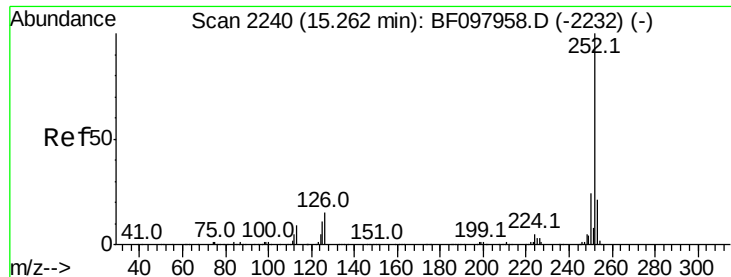
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#88
Benzo(k)fluoranthene
Concen: 3.628 ng m
RT: 14.92 min Scan# 2182
Delta R.T. -0.02 min
Lab File: BF098124.D
Acq: 29 Aug 2017 21:29

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
252	100		43758		
253	26.6	18.4	27.6		
125	14.4	13.1	19.7		





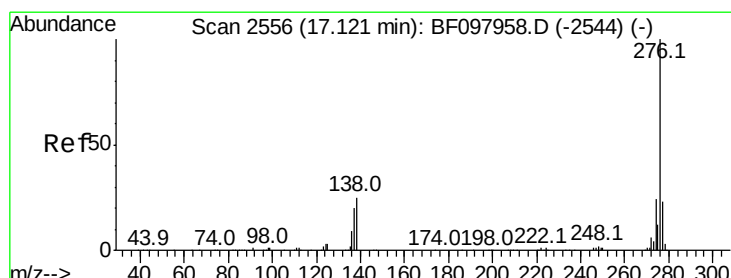
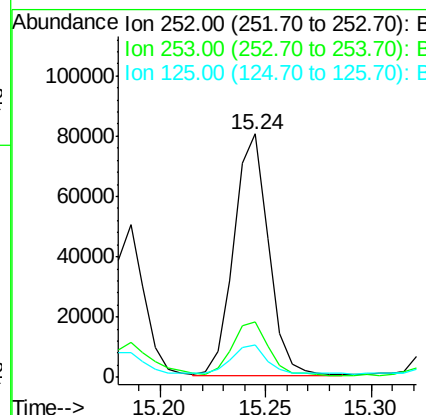
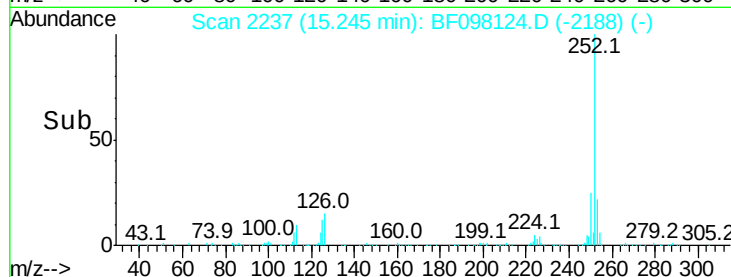
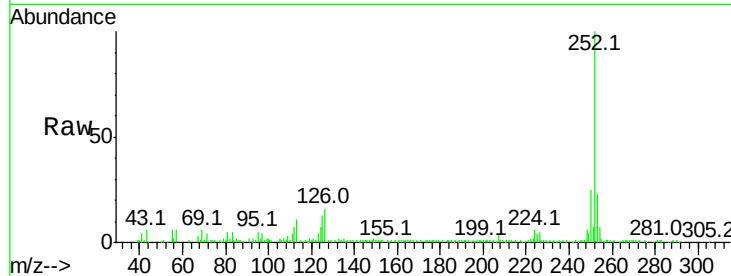
#89
Benzo(a)pyrene
Concen: 7.985 ng
RT: 15.24 min Scan# 2237
Delta R.T. -0.01 min
Lab File: BF098124.D
Acq: 29 Aug 2017 21:29

Instrument :
BNA_F
ClientSampleId :
EO-01-082517-B

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.5	26.3
125	13.1	11.0	16.4

Manual Integrations
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#91
Benzo(g,h,i)perylene
Concen: 3.687 ng
RT: 17.09 min Scan# 2550
Delta R.T. -0.02 min
Lab File: BF098124.D
Acq: 29 Aug 2017 21:29

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.6	18.6	28.0
138	30.4	25.4	38.0

