

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF122217\
 Data File : BF101658.D
 Acq On : 22 Dec 2017 17:26
 Operator : SJ/JU
 Sample : I6683-09 2X
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 EO-02-122017-B

Manual Integrations
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 12/26/2017 1:37:20 PM

Quant Time: Dec 22 23:21:42 2017
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121417.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Dec 22 16:07:58 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.79	152	149520	20.00	ng	0.00
21) Naphthalene-d8	8.07	136	572652	20.00	ng	0.00
38) Acenaphthene-d10	9.82	164	234889	20.00	ng	0.00
63) Phenanthrene-d10	11.32	188	384389	20.00	ng	0.00
75) Chrysene-d12	13.97	240	284549	20.00	ng	0.00
86) Perylene-d12	15.43	264	306161	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.40	112	531328	52.93	ng	0.00
7) Phenol-d6	6.43	99	640796	51.30	ng	0.00
23) Nitrobenzene-d5	7.36	82	390273	37.94	ng	0.00
41) 2,4,6-Tribromophenol	10.62	330	108784	48.06	ng	0.00
44) 2-Fluorobiphenyl	9.14	172	618467	40.84	ng	0.00
78) Terphenyl-d14	12.90	244	450060	38.13	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.09	128	188725	6.546	ng	99
37) 2-Methylnaphthalene	8.78	142	138843	7.392	ng	98
48) Acenaphthylene	9.69	152	118217	4.696	ng	98
49) Dimethylphthalate	9.54	163	59510	3.150	ng	100
51) Acenaphthene	9.86	154	147076	9.724	ng	97
54) Dibenzofuran	10.03	168	171860	8.941	ng	99
57) Fluorene	10.37	166	291066	17.900	ng	99
70) Phenanthrene	11.35	178	1325305	61.998	ng	99
71) Anthracene	11.39	178	510385	23.374	ng	100
72) Carbazole	11.56	167	80192	3.923	ng	99
74) Fluoranthene	12.54	202	1447300	64.503	ng	99
77) Pyrene	12.77	202	1444356	67.634	ng	99
80) Benzo(a)anthracene	13.96	228	789085	41.997	ng	97
82) Chrysene	13.99	228	635007	35.794	ng	98
85) Indeno(1,2,3-cd)pyrene	16.90	276	324513	20.542	ng	# 93
87) Benzo(b)fluoranthene	15.01	252	731328m	39.190	ng	
88) Benzo(k)fluoranthene	15.03	252	285019m	15.709	ng	
89) Benzo(a)pyrene	15.37	252	611794	35.563	ng	97
90) Dibenzo(a,h)anthracene	16.90	278	81129	5.493	ng	# 72
91) Benzo(g,h,i)perylene	17.35	276	305695	20.901	ng	95

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

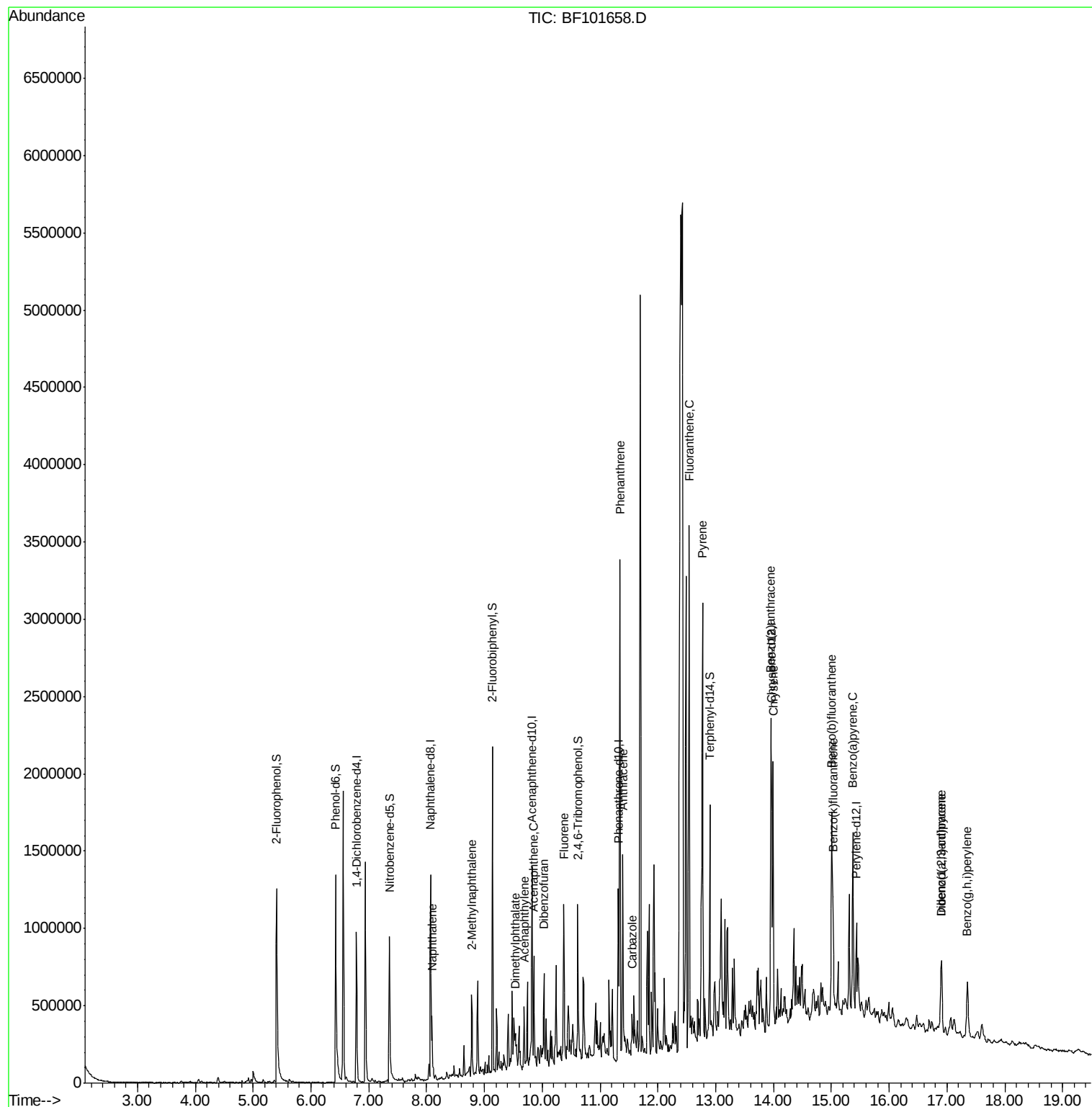
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF122217\
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ALS Vial : 10 Sample Multiplier: 1

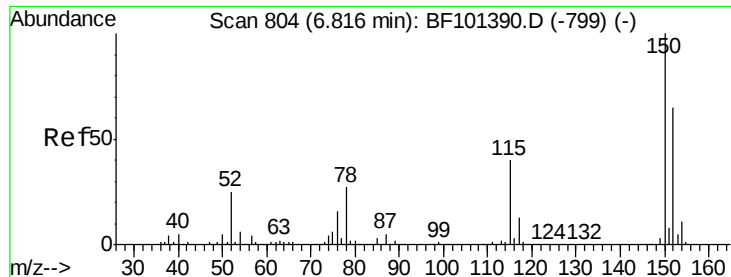
Instrument :
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EO-02-122017-B

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#1

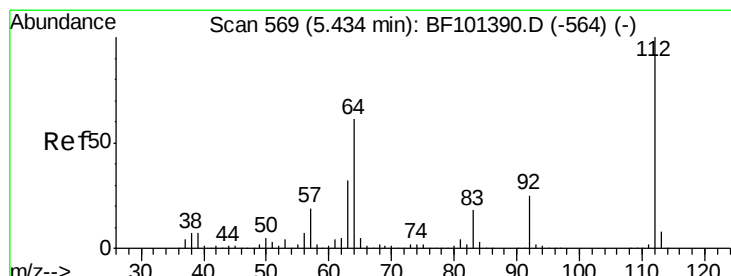
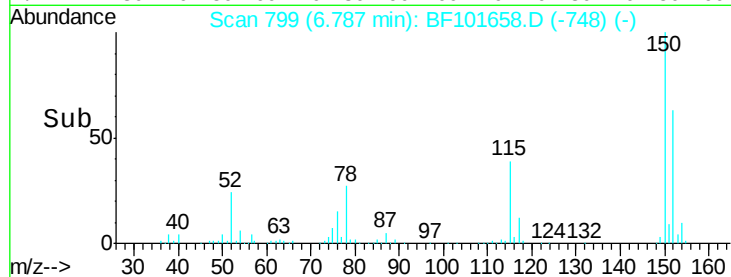
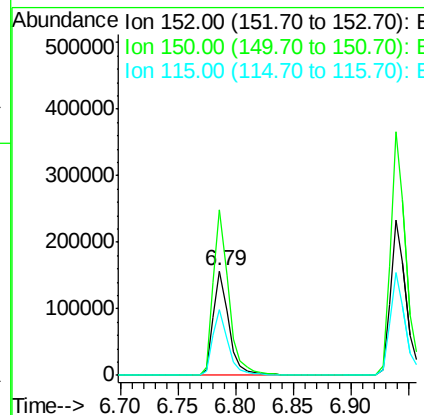
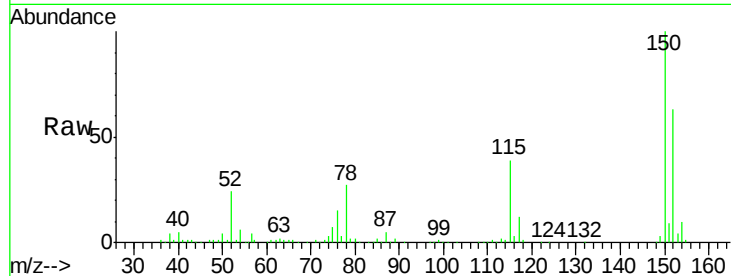
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.79 min Scan# 799
Delta R.T. 0.00 min
Lab File: BF101658.D
Acq: 22 Dec 2017 17:26

Instrument :
BNA_F
ClientSampleId :
EO-02-122017-B

Tgt Ion	Ratio	Lower	Upper
152	100		
150	158.8	124.6	186.8
115	62.3	50.1	75.1

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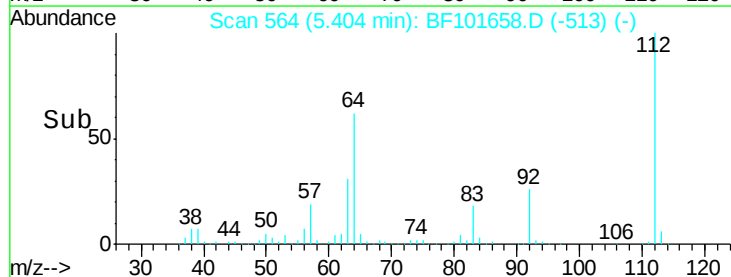
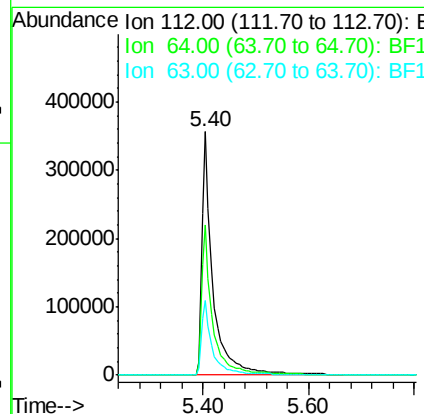
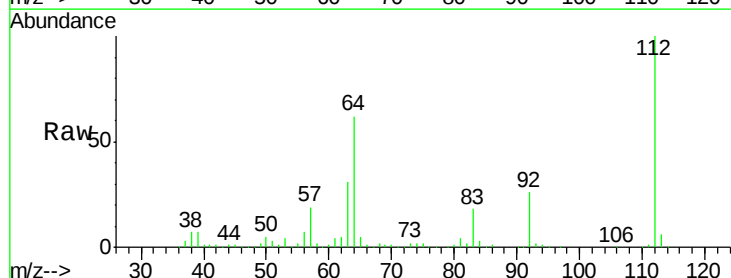
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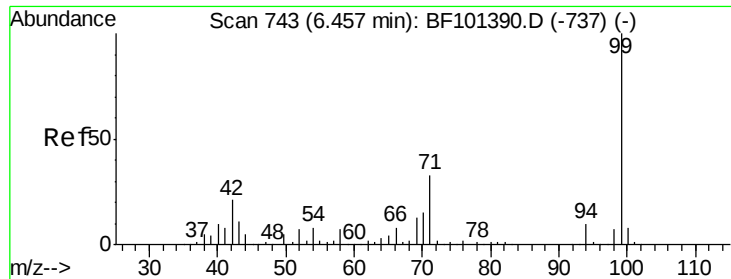


#5

2-Fluorophenol
Concen: 52.933 ng
RT: 5.40 min Scan# 564
Delta R.T. 0.00 min
Lab File: BF101658.D
Acq: 22 Dec 2017 17:26

Tgt Ion	Ratio	Lower	Upper
112	100		
64	61.9	47.9	71.9
63	30.9	23.7	35.5





#7

Phenol-d6

Concen: 51.295 ng

RT: 6.43 min Scan# 738

Delta R.T. -0.01 min

Lab File: BF101658.D

Acq: 22 Dec 2017 17:26

Instrument :

BNA_F

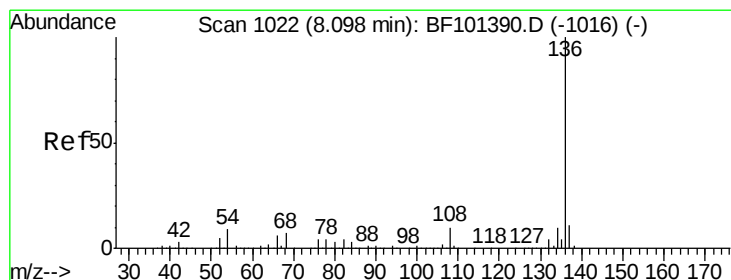
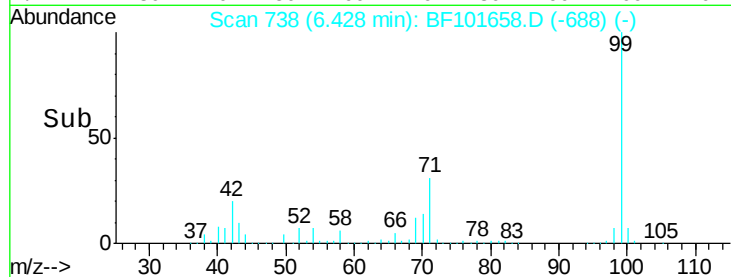
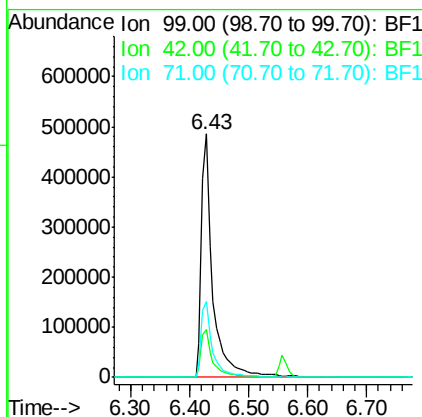
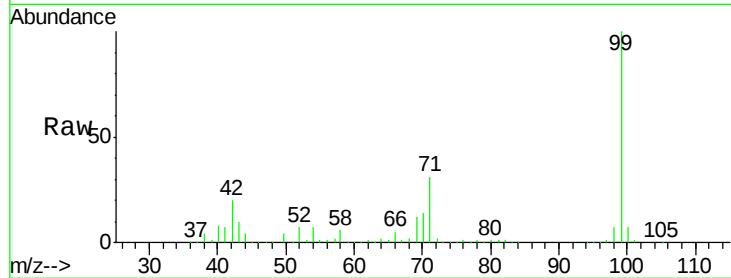
ClientSampleId :

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Tgt Ion:	99	Resp:	640796
Ion Ratio	Lower	Upper	
99	100		
42	19.7	14.5	21.7
71	31.3	25.4	38.0

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#21

Naphthalene-d8

Concen: 20.000 ng

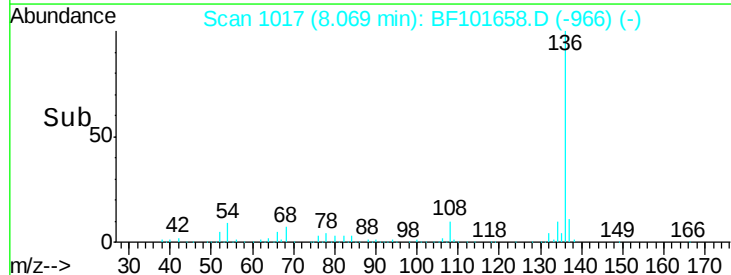
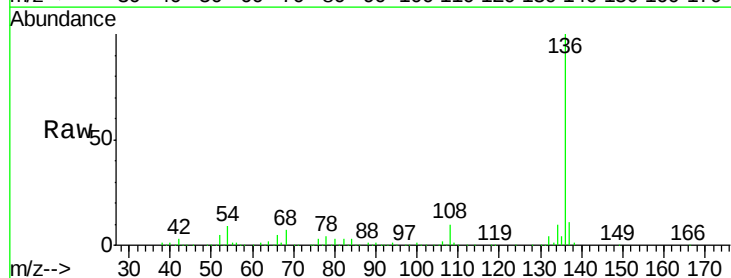
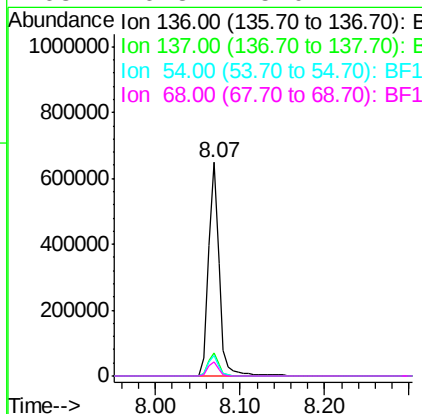
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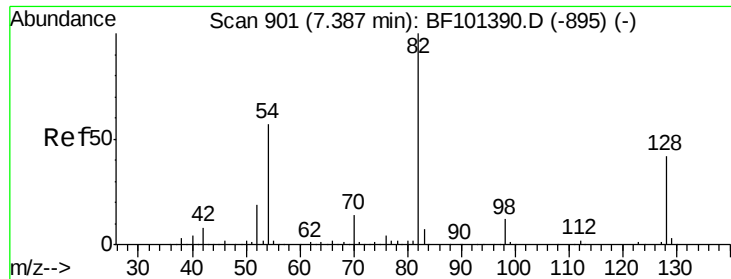
Delta R.T. 0.00 min

Lab File: BF101658.D

Acq: 22 Dec 2017 17:26

Tgt Ion:	136	Resp:	572652
Ion Ratio	Lower	Upper	
136	100		
137	11.1	8.9	13.3
54	9.3	6.6	9.8
68	6.8	5.0	7.4





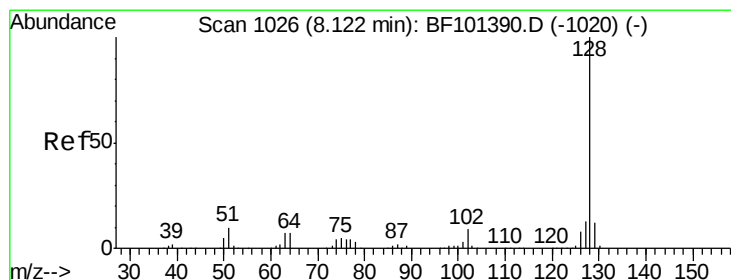
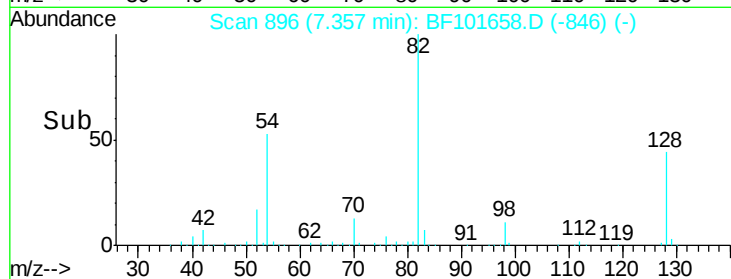
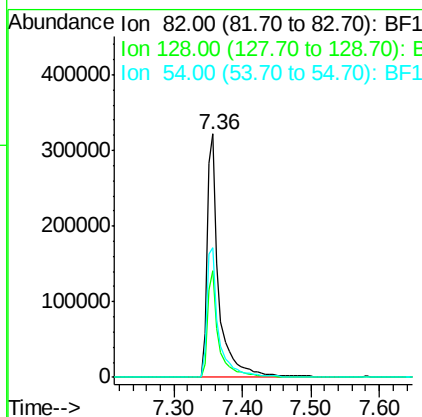
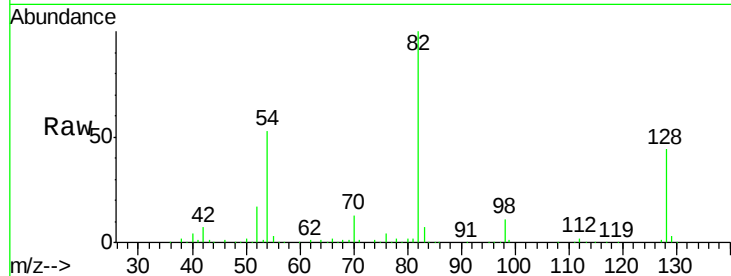
#23
Nitrobenzene-d5
Concen: 37.937 ng
RT: 7.36 min Scan# 896
Delta R.T. -0.01 min
Lab File: BF101658.D
Acq: 22 Dec 2017 17:26

Instrument :
BNA_F
ClientSampleId :
EO-02-122017-B

Tgt Ion	Ratio	Resp	Lower	Upper
82	100	390273		
128	43.6	36.1	54.1	
54	53.0	41.4	62.2	

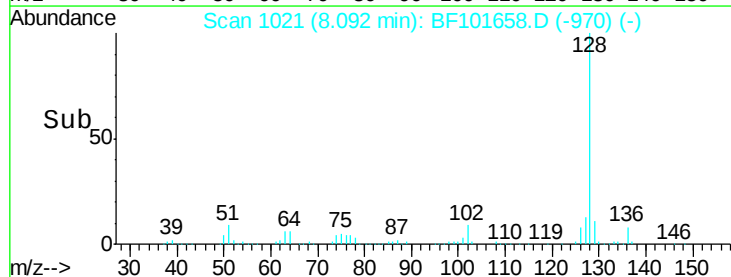
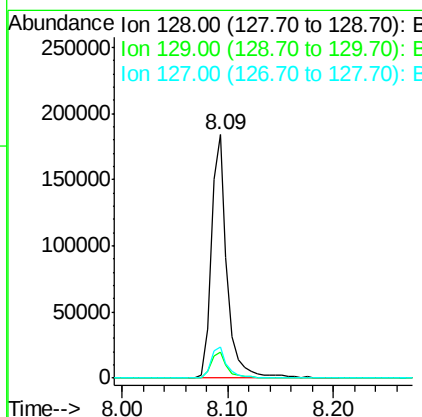
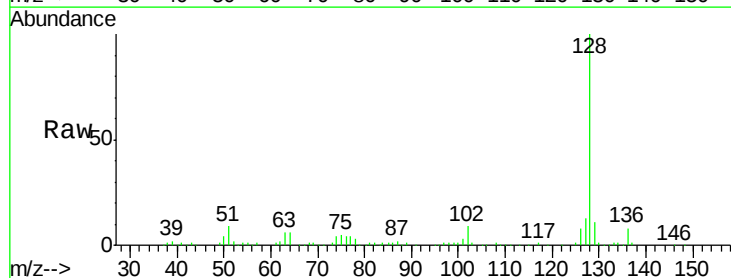
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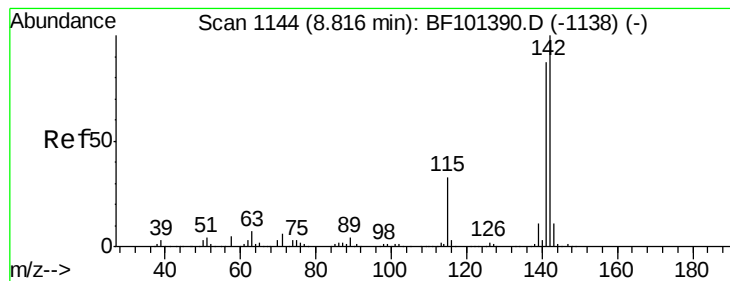
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#31
Naphthalene
Concen: 6.546 ng
RT: 8.09 min Scan# 1021
Delta R.T. 0.00 min
Lab File: BF101658.D
Acq: 22 Dec 2017 17:26

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	188725		
129	10.7	8.8	13.2	
127	13.0	10.9	16.3	





#37

2-Methylnaphthalene

Concen: 7.392 ng

RT: 8.78 min Scan# 1138

Delta R.T. -0.01 min

Lab File: BF101658.D

Acq: 22 Dec 2017 17:26

Instrument :

BNA_F

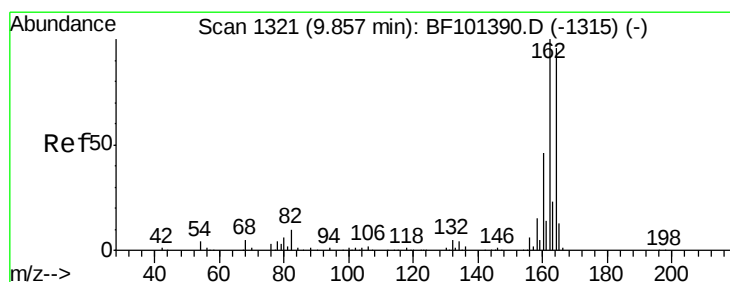
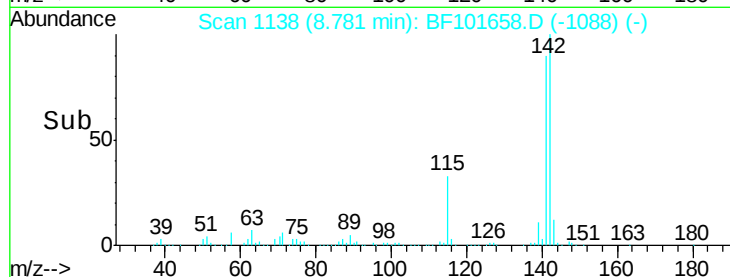
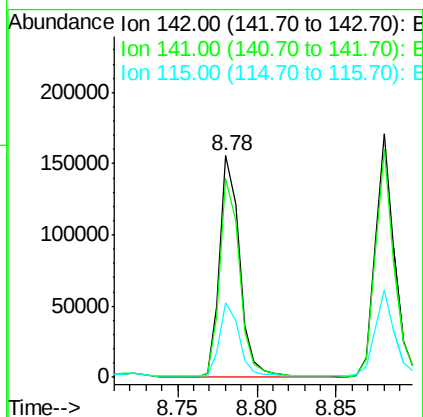
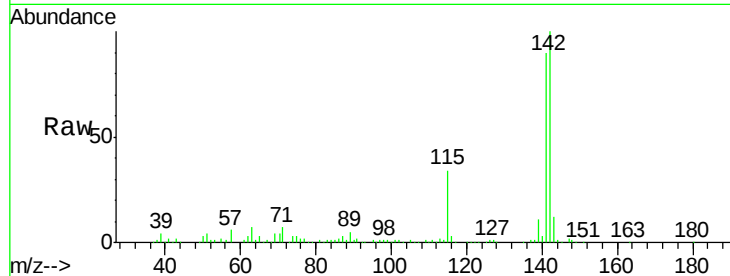
ClientSampleId :

EO-02-122017-B

Tgt Ion:	142	Resp:	138843
Ion Ratio	Lower	Upper	
142	100		
141	89.9	70.8	106.2
115	33.6	26.1	39.1

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#38

Acenaphthene-d10

Concen: 20.000 ng

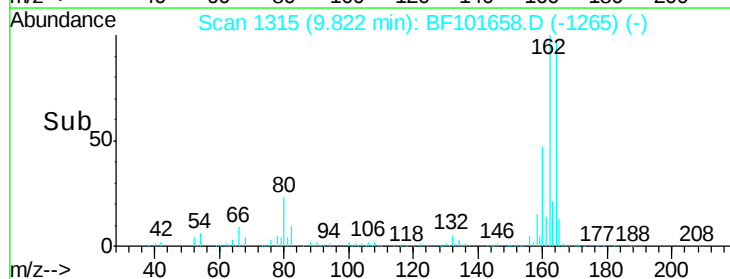
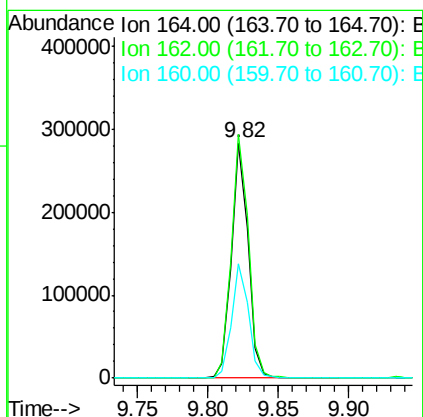
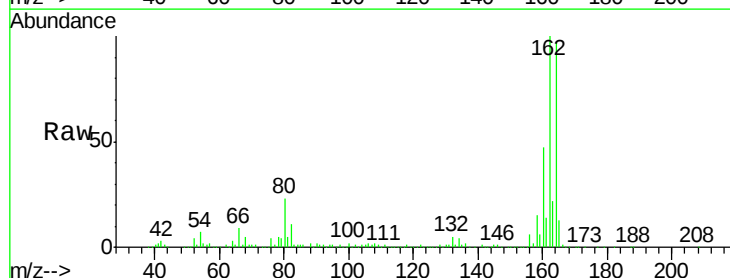
RT: 9.82 min Scan# 1315

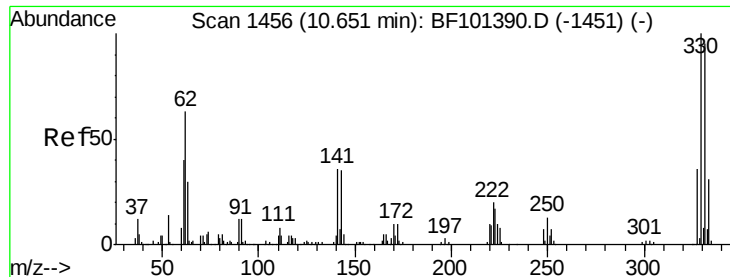
Delta R.T. -0.01 min

Lab File: BF101658.D

Acq: 22 Dec 2017 17:26

Tgt Ion:	164	Resp:	234889
Ion Ratio	Lower	Upper	
164	100		
162	103.6	86.1	129.1
160	48.8	38.3	57.5





#41

2,4,6-Tribromophenol

Concen: 48.064 ng

RT: 10.62 min Scan# 1451

Delta R.T. 0.00 min

Lab File: BF101658.D

Acq: 22 Dec 2017 17:26

Instrument :

BNA_F

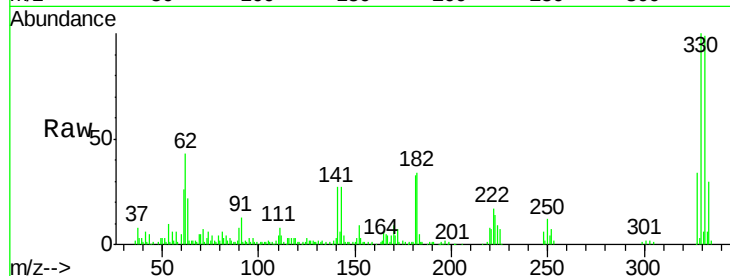
ClientSampleId :

EO-02-122017-B

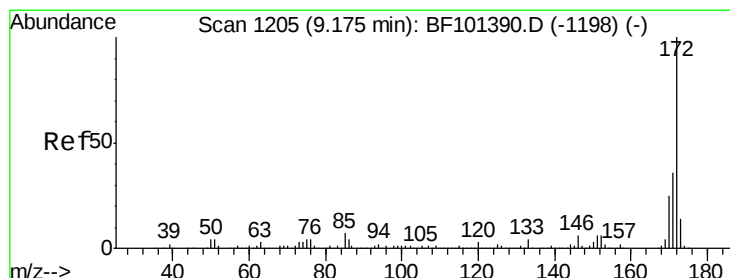
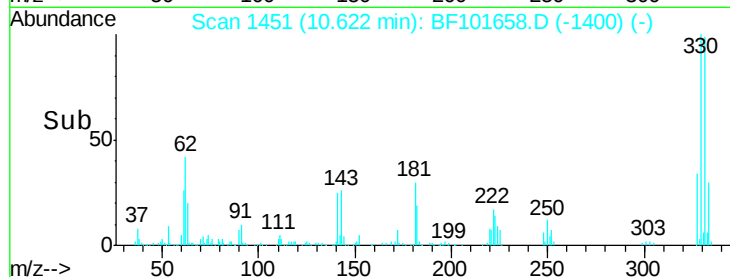
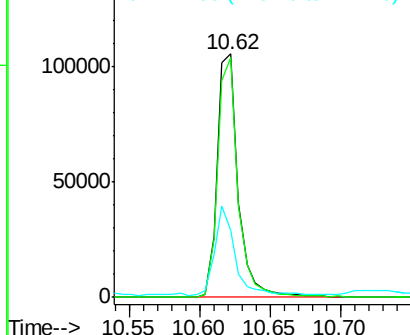
Tgt Ion:	330	Resp:	108784
Ion Ratio	Lower	Upper	
330	100		
332	95.9	77.0	115.6
141	34.9	29.9	44.9

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Abundance Ion 329.80 (329.50 to 330.50): E
Ion 331.80 (331.50 to 332.50): E
Ion 141.00 (140.70 to 141.70): E



#44

2-Fluorobiphenyl

Concen: 40.844 ng

RT: 9.14 min Scan# 1199

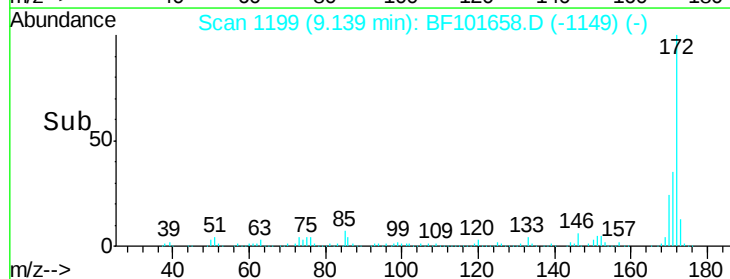
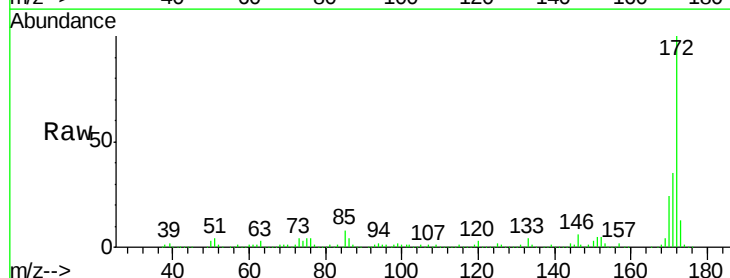
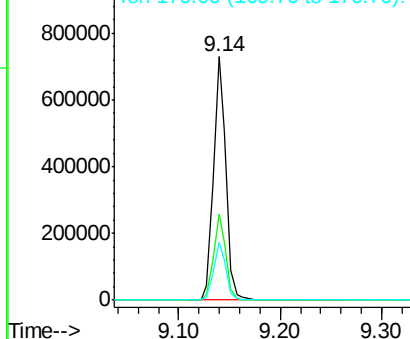
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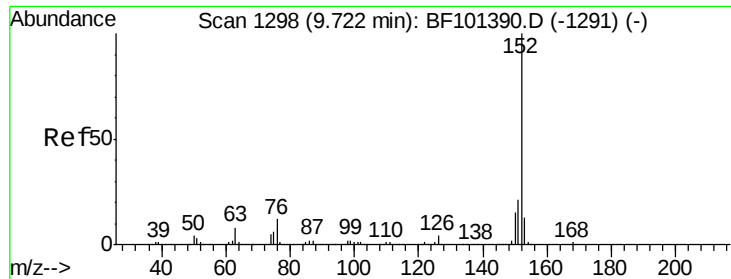
Lab File: BF101658.D

Acq: 22 Dec 2017 17:26

Tgt Ion:	172	Resp:	618467
Ion Ratio	Lower	Upper	
172	100		
171	35.1	29.7	44.5
170	23.8	19.6	29.4

Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E





#48

Acenaphthylene

Concen: 4.696 ng

RT: 9.69 min Scan# 1292

Delta R.T. -0.01 min

Lab File: BF101658.D

Acq: 22 Dec 2017 17:26

Instrument :

BNA_F

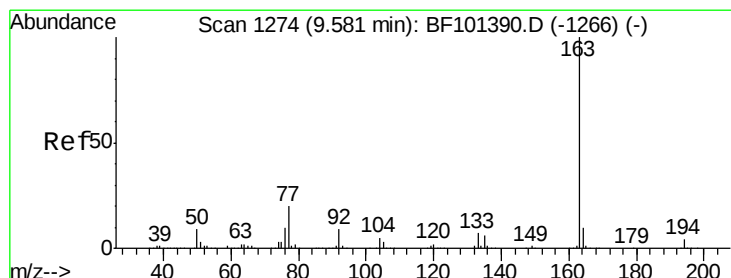
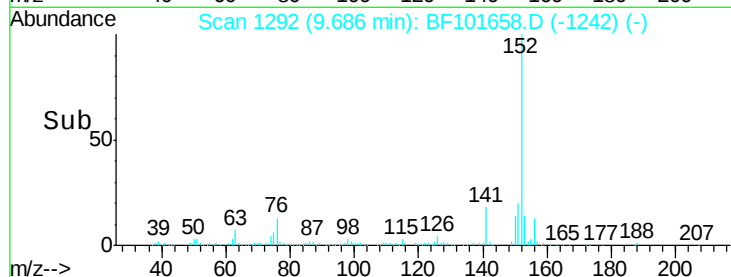
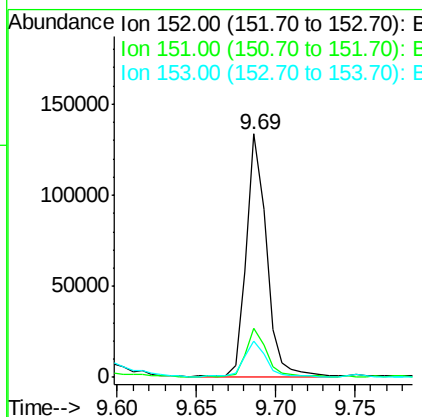
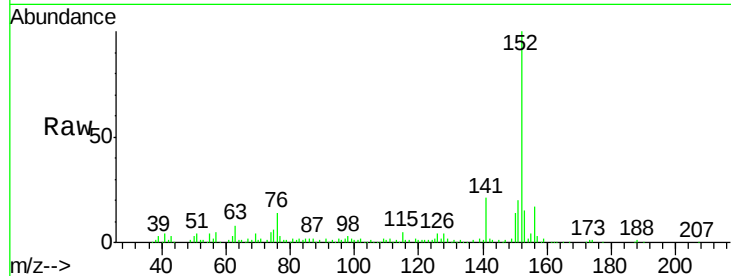
ClientSampleId :

EO-02-122017-B

Tgt Ion:	152	Resp:	118217
Ion Ratio		Lower	Upper
152	100		
151	19.9	16.3	24.5
153	14.7	10.7	16.1

Manual Integrations
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#49

Dimethylphthalate

Concen: 3.150 ng

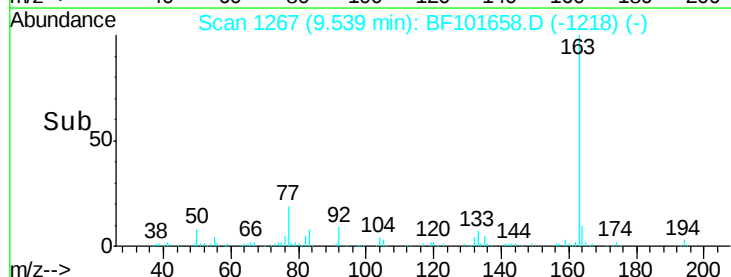
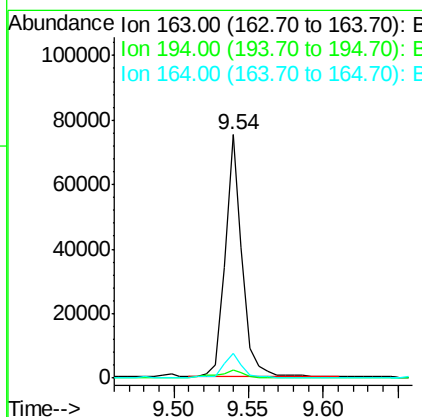
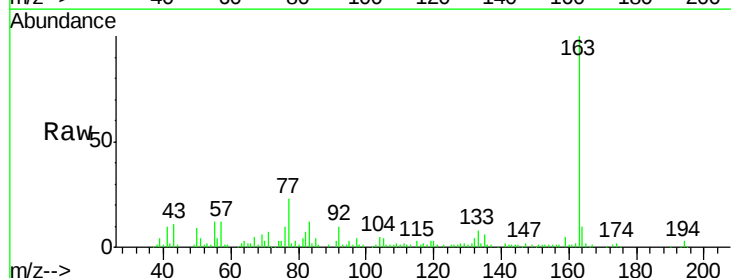
RT: 9.54 min Scan# 1267

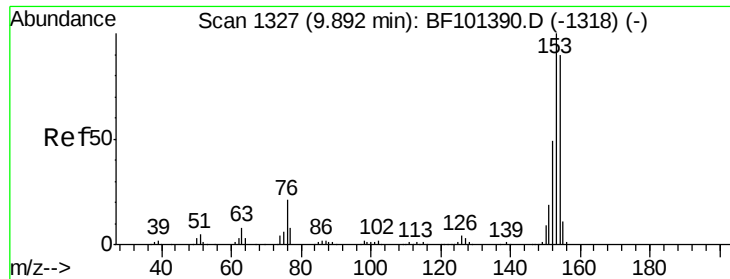
Delta R.T. -0.01 min

Lab File: BF101658.D

Acq: 22 Dec 2017 17:26

Tgt Ion:	163	Resp:	59510
Ion Ratio		Lower	Upper
163	100		
194	3.5	2.7	4.1
164	10.0	8.2	12.2





#51

Acenaphthene

Concen: 9.724 ng

RT: 9.86 min Scan# 1321

Delta R.T. -0.01 min

Lab File: BF101658.D

Acq: 22 Dec 2017 17:26

Instrument :

BNA_F

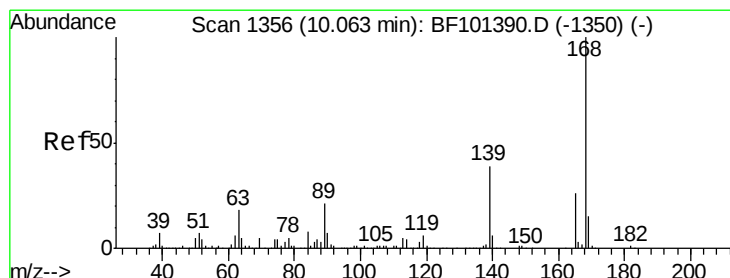
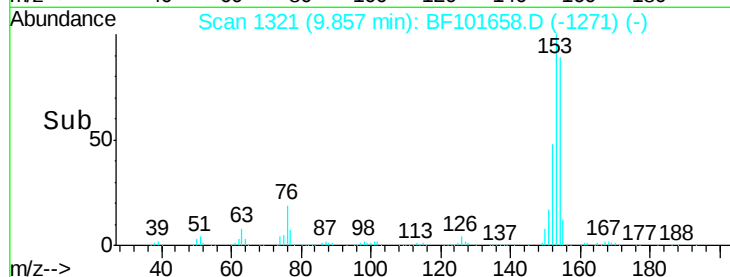
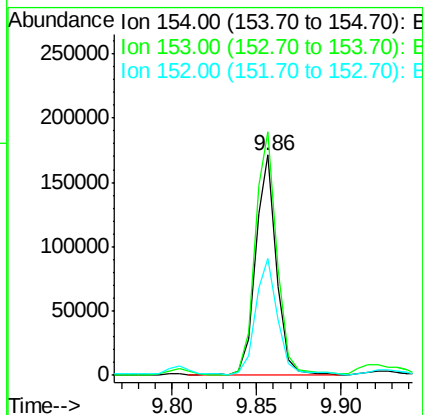
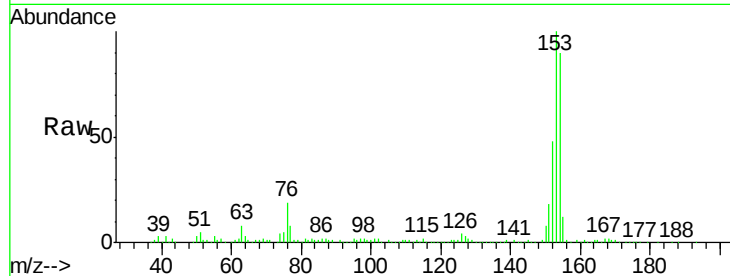
ClientSampleId :

EO-02-122017-B

Tgt Ion:	154	Resp:	147076
Ion Ratio	Lower	Upper	
154	100		
153	110.6	91.2	136.8
152	53.4	43.8	65.8

Manual Integrations
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#54

Dibenzofuran

Concen: 8.941 ng

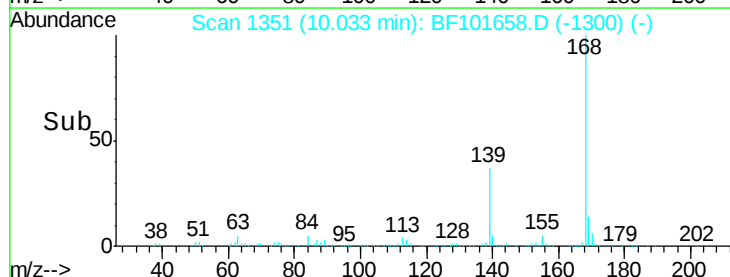
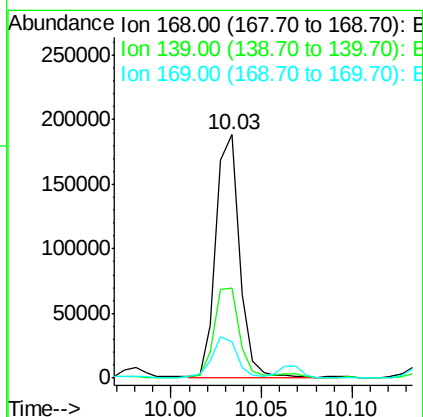
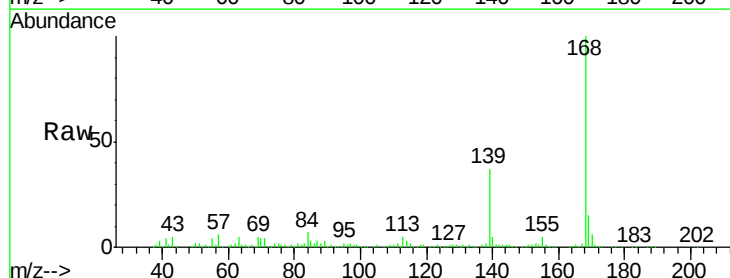
RT: 10.03 min Scan# 1351

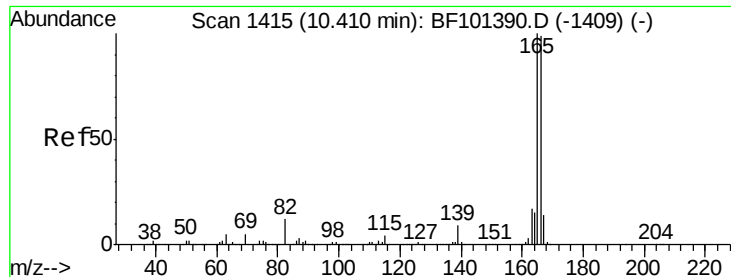
Delta R.T. 0.00 min

Lab File: BF101658.D

Acq: 22 Dec 2017 17:26

Tgt Ion:	168	Resp:	171860
Ion Ratio	Lower	Upper	
168	100		
139	37.2	30.1	45.1
169	14.6	10.9	16.3





#57

Fluorene

Concen: 17.900 ng

RT: 10.37 min Scan# 1409

Delta R.T. -0.01 min

Lab File: BF101658.D

Acq: 22 Dec 2017 17:26

Instrument :

BNA_F

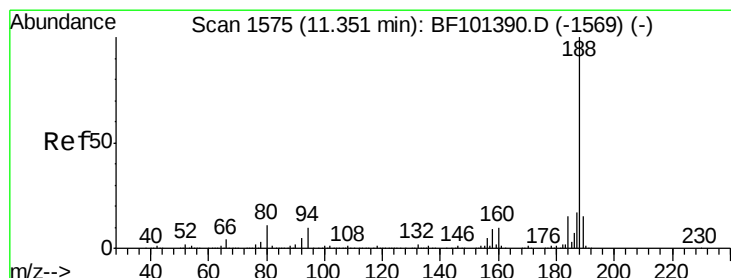
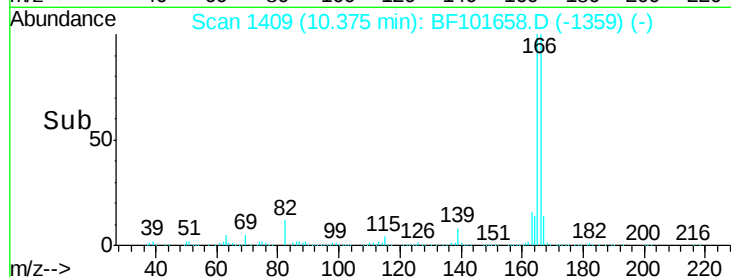
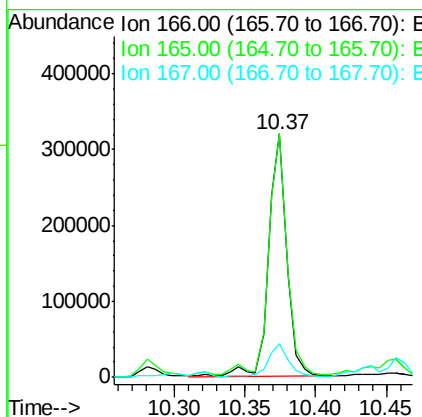
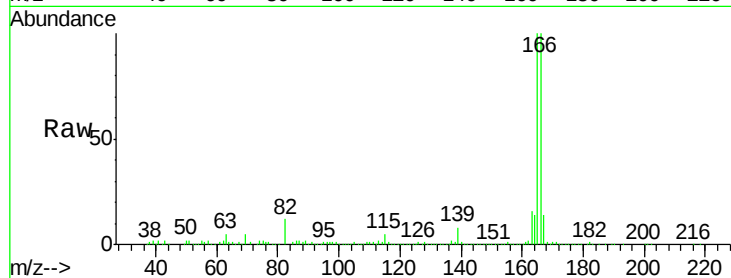
ClientSampleId :

EO-02-122017-B

Tgt Ion:	166	Resp:	291066
Ion Ratio	Lower	Upper	
166	100		
165	100.2	79.8	119.8
167	14.0	10.6	16.0

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#63

Phenanthrene-d10

Concen: 20.000 ng

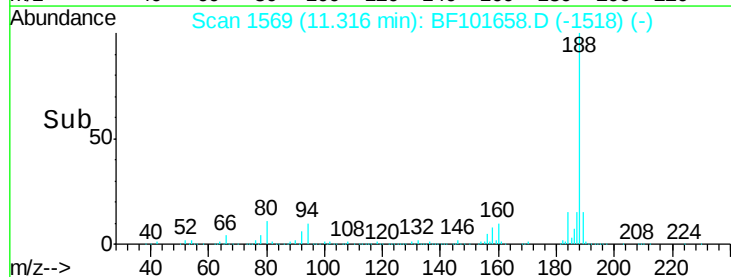
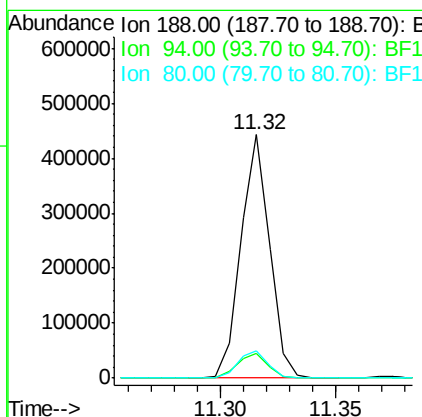
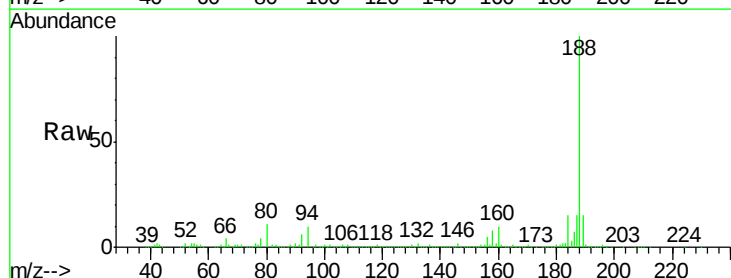
RT: 11.32 min Scan# 1569

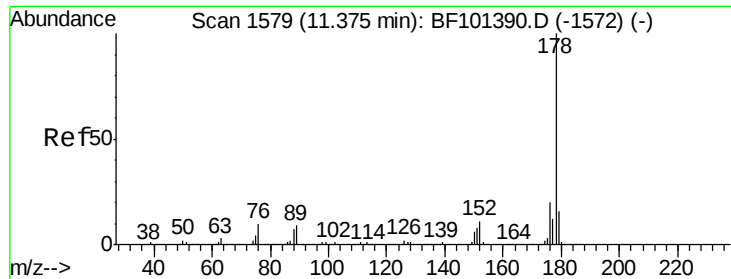
Delta R.T. 0.00 min

Lab File: BF101658.D

Acq: 22 Dec 2017 17:26

Tgt Ion:	188	Resp:	384389
Ion Ratio	Lower	Upper	
188	100		
94	10.4	8.5	12.7
80	11.3	9.2	13.8





#70

Phenanthrene

Concen: 61.998 ng

RT: 11.35 min Scan# 1574

Delta R.T. 0.00 min

Lab File: BF101658.D

Acq: 22 Dec 2017 17:26

Instrument :

BNA_F

ClientSampleId :

EO-02-122017-B

Tgt Ion:178 Resp: 1325305

Ion Ratio Lower Upper

178 100

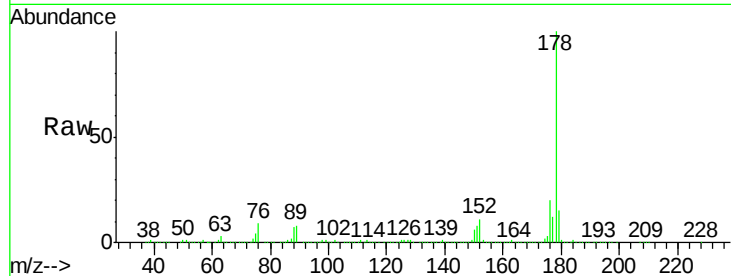
176 20.0 15.8 23.8

179 15.4 13.0 19.6

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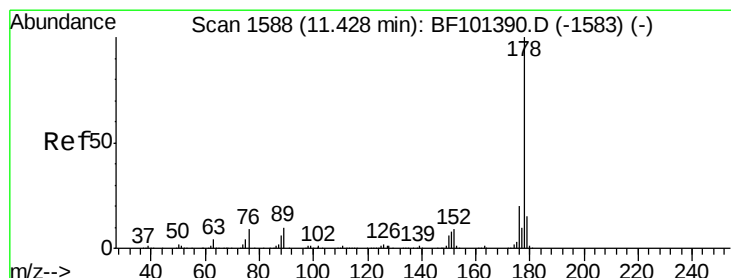
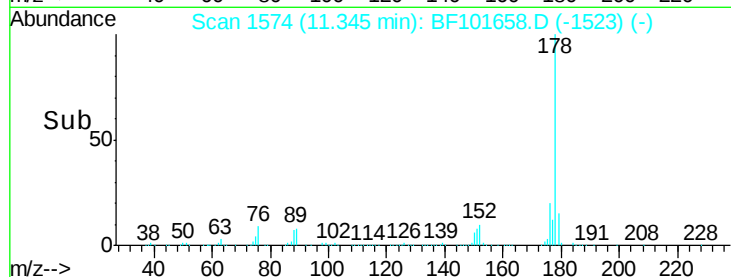
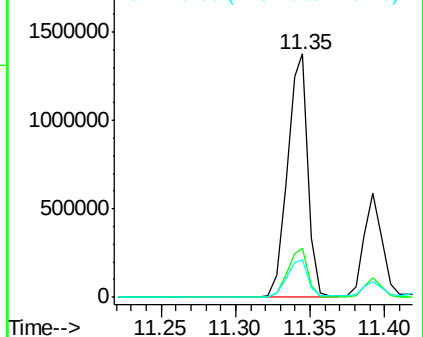
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Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#71

Anthracene

Concen: 23.374 ng

RT: 11.39 min Scan# 1582

Delta R.T. -0.01 min

Lab File: BF101658.D

Acq: 22 Dec 2017 17:26

Tgt Ion:178 Resp: 510385

Ion Ratio Lower Upper

178 100

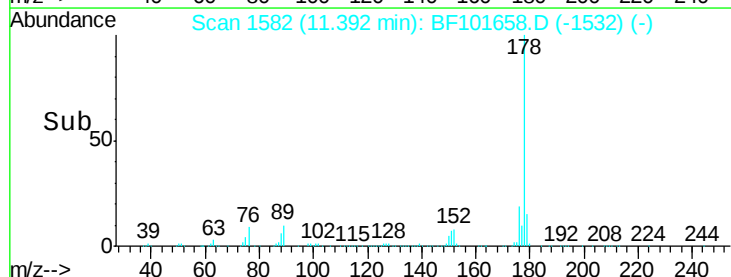
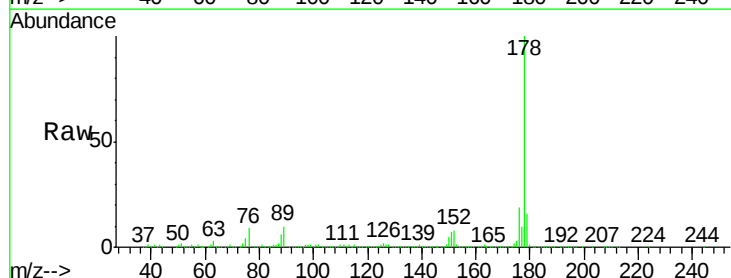
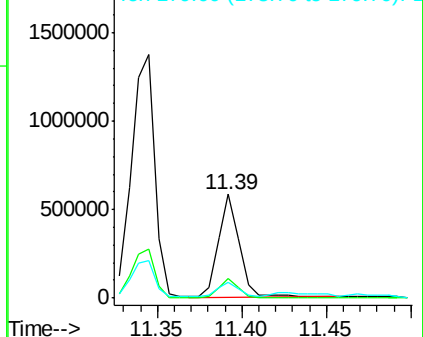
176 19.0 15.4 23.2

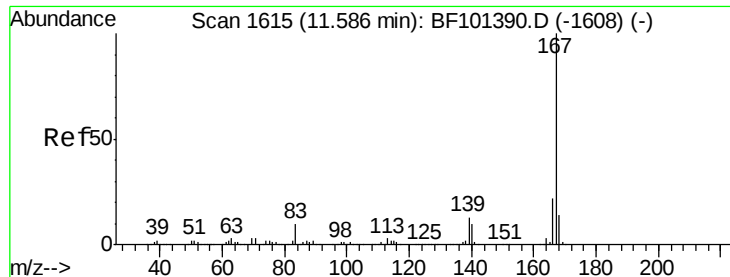
179 15.8 12.6 19.0

Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 3.923 ng

RT: 11.56 min Scan# 1610

Delta R.T. 0.00 min

Lab File: BF101658.D

Acq: 22 Dec 2017 17:26

Instrument :

BNA_F

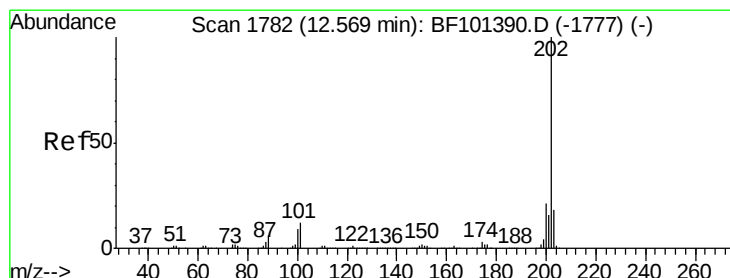
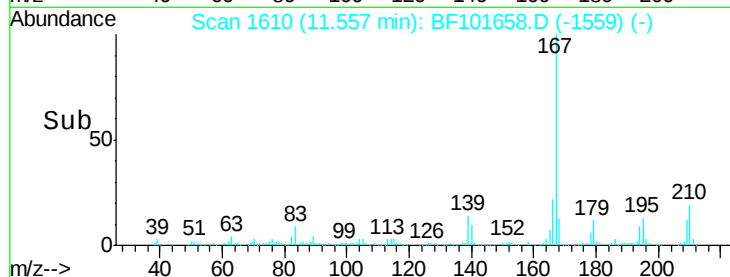
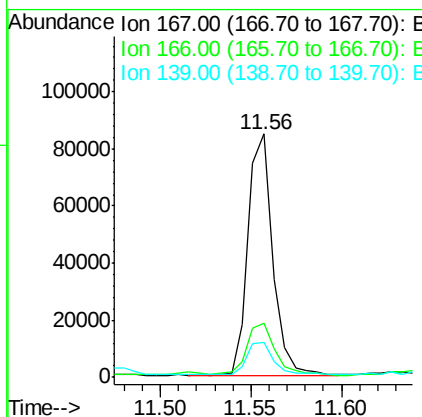
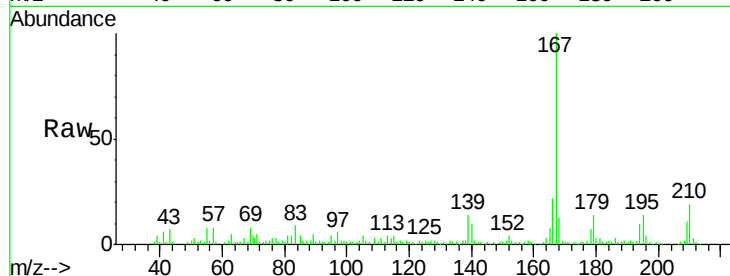
ClientSampleId :

EO-02-122017-B

Tgt Ion:	167	Resp:	80192
Ion Ratio		Lower	Upper
167	100		
166	22.2	17.6	26.4
139	14.3	10.9	16.3

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#74

Fluoranthene

Concen: 64.503 ng

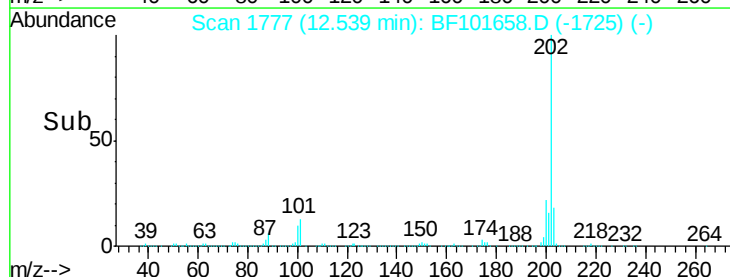
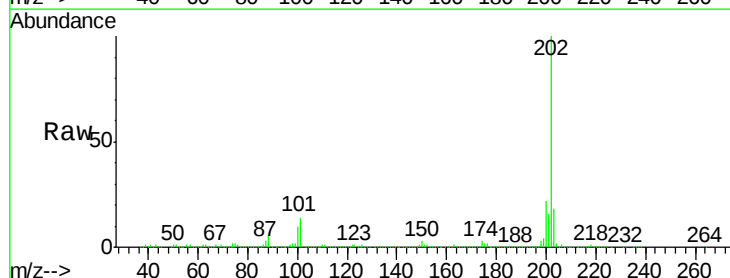
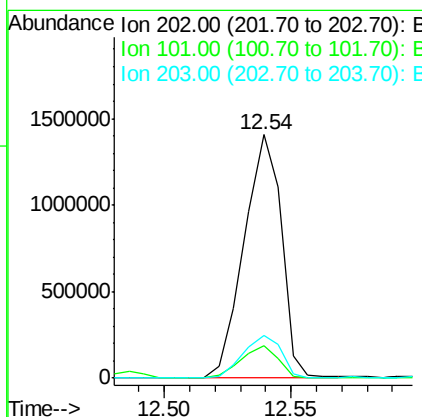
RT: 12.54 min Scan# 1777

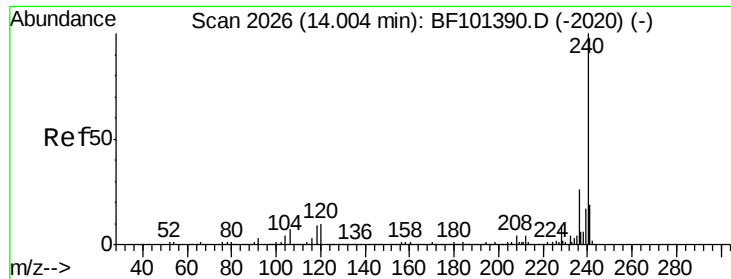
Delta R.T. 0.01 min

Lab File: BF101658.D

Acq: 22 Dec 2017 17:26

Tgt Ion:	202	Resp:	1447300
Ion Ratio		Lower	Upper
202	100		
101	13.5	0.0	34.1
203	17.7	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.97 min Scan# 2020

Delta R.T. 0.00 min

Lab File: BF101658.D

Acq: 22 Dec 2017 17:26

Instrument :

BNA_F

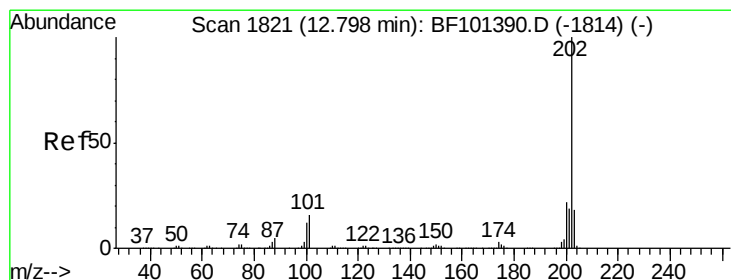
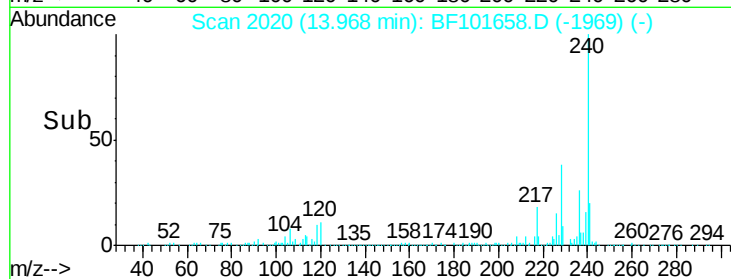
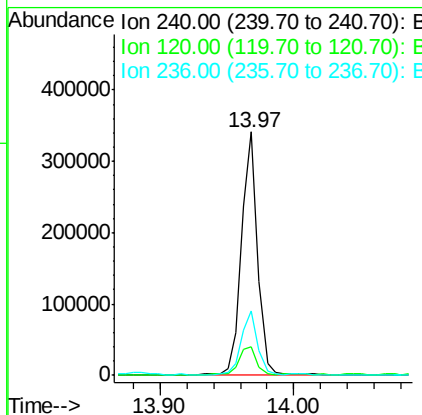
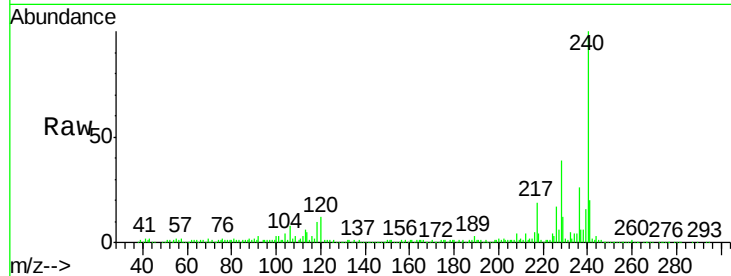
ClientSampleId :

EO-02-122017-B

Tgt Ion:	240	Resp:	284549
Ion Ratio	Lower	Upper	
240	100		
120	11.6	9.5	14.3
236	26.4	20.7	31.1

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#77

Pyrene

Concen: 67.634 ng

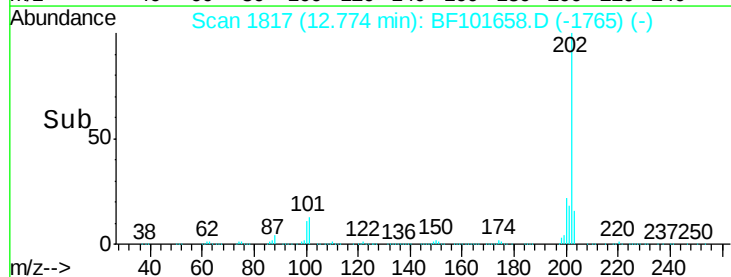
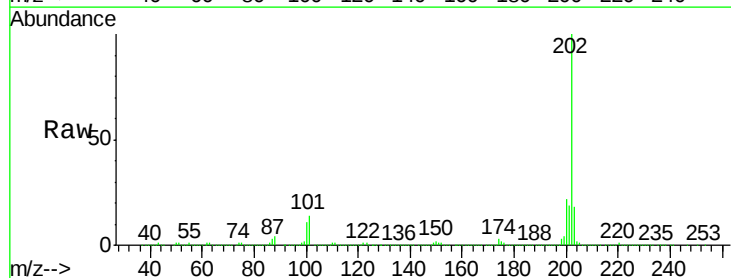
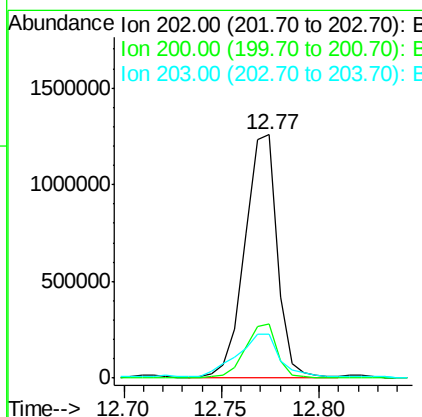
RT: 12.77 min Scan# 1817

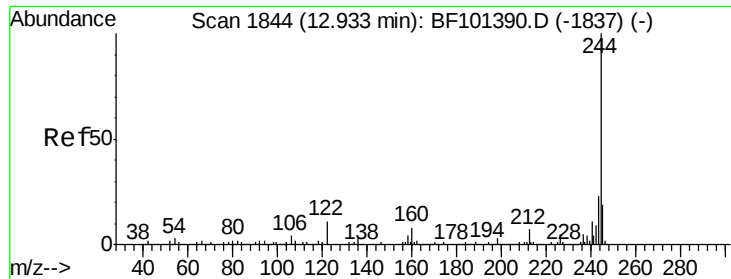
Delta R.T. 0.01 min

Lab File: BF101658.D

Acq: 22 Dec 2017 17:26

Tgt Ion:	202	Resp:	1444356
Ion Ratio	Lower	Upper	
202	100		
200	22.1	17.4	26.2
203	18.1	14.3	21.5





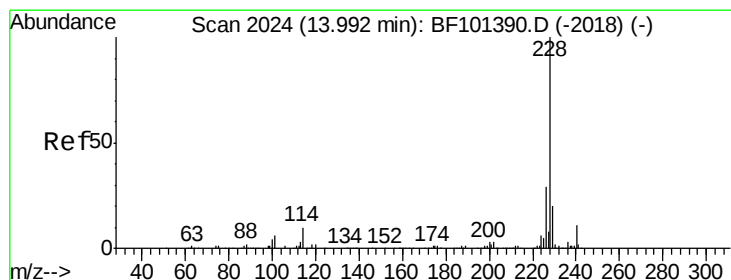
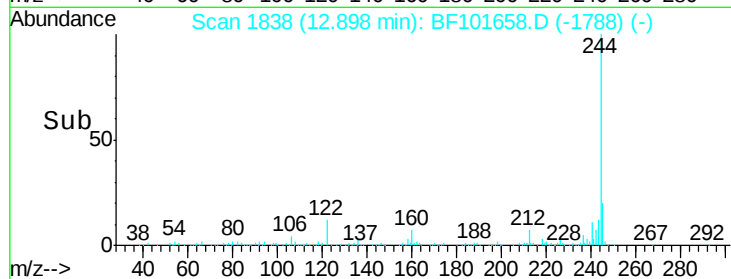
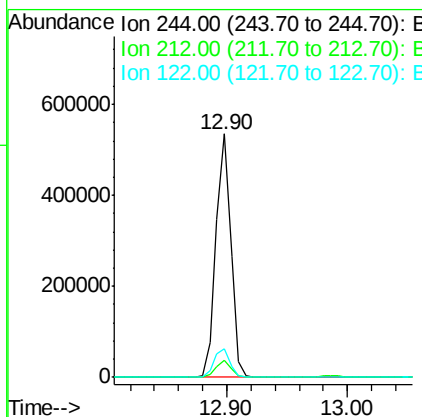
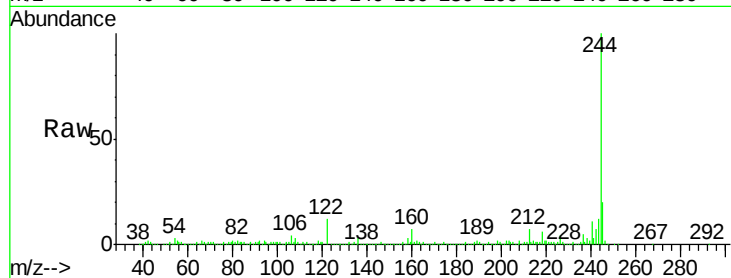
#78
 Terphenyl-d14
 Concen: 38.130 ng
 RT: 12.90 min Scan# 1838
 Delta R.T. -0.01 min
 Lab File: BF101658.D
 Acq: 22 Dec 2017 17:26

Instrument :
 BNA_F
 ClientSampleId :
 EO-02-122017-B

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.9	5.4	8.0
122	11.8	11.0	16.4

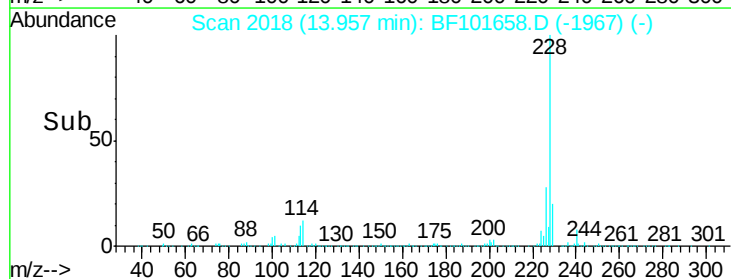
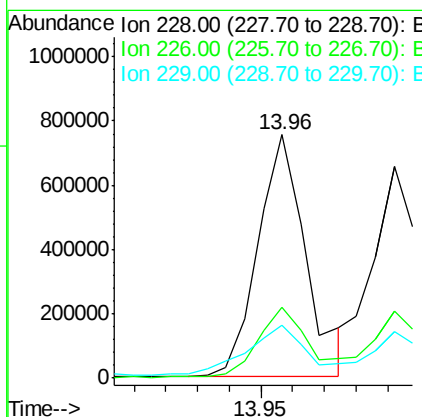
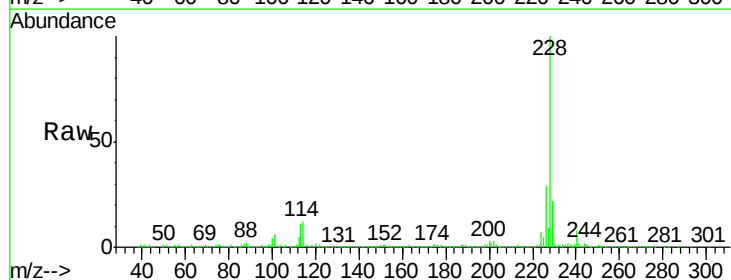
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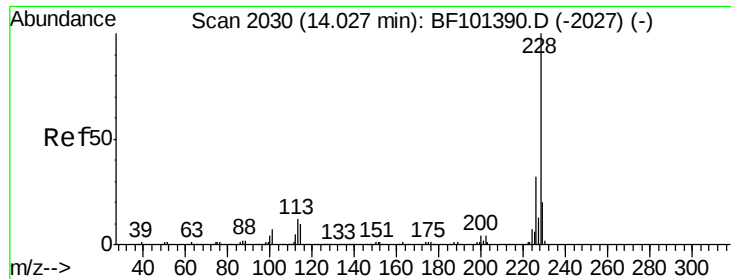
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#80
 Benzo(a)anthracene
 Concen: 41.997 ng
 RT: 13.96 min Scan# 2018
 Delta R.T. 0.00 min
 Lab File: BF101658.D
 Acq: 22 Dec 2017 17:26

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.9	22.6	33.8
229	21.6	15.8	23.6





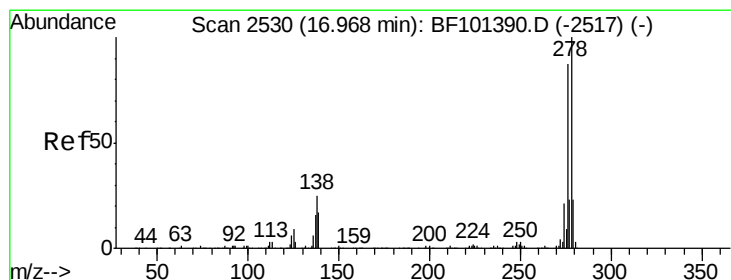
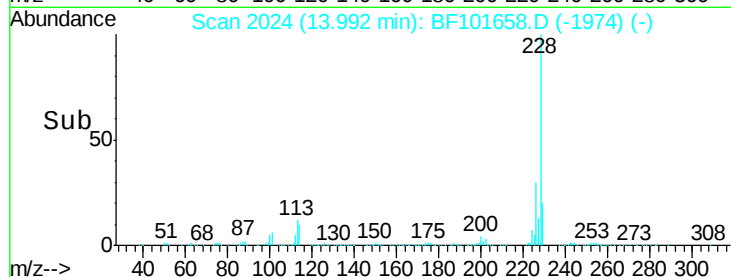
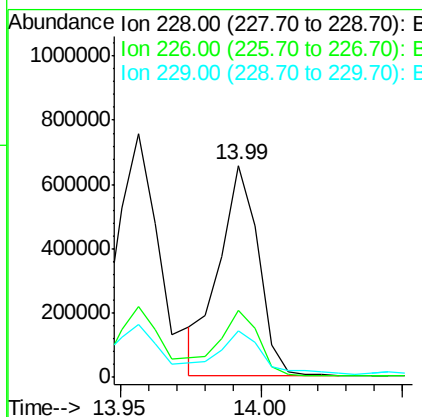
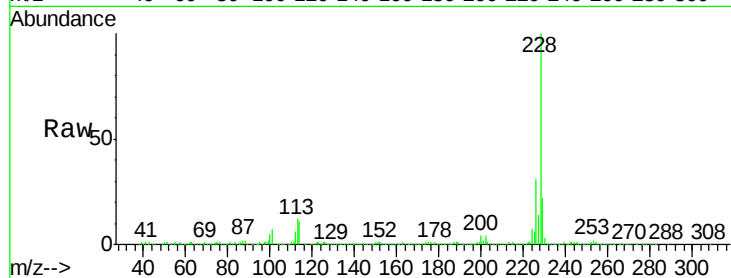
#82
Chrysene
Concen: 35.794 ng
RT: 13.99 min Scan# 2024
Delta R.T. -0.01 min
Lab File: BF101658.D
Acq: 22 Dec 2017 17:26

Instrument :
BNA_F
ClientSampleId :
EO-02-122017-B

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.4	25.0	37.6
229	22.0	16.2	24.4

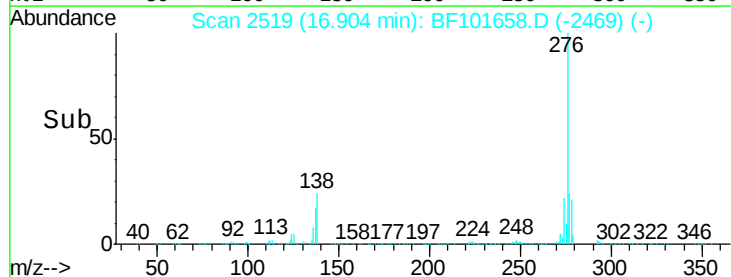
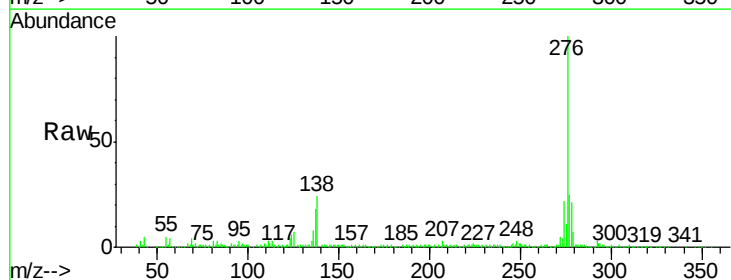
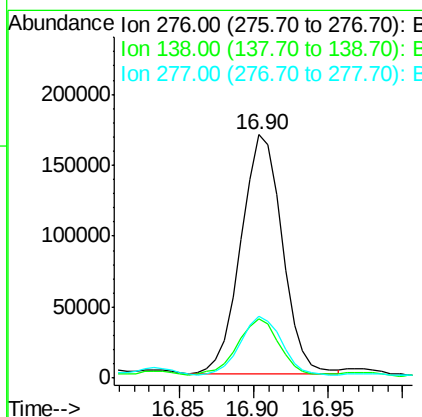
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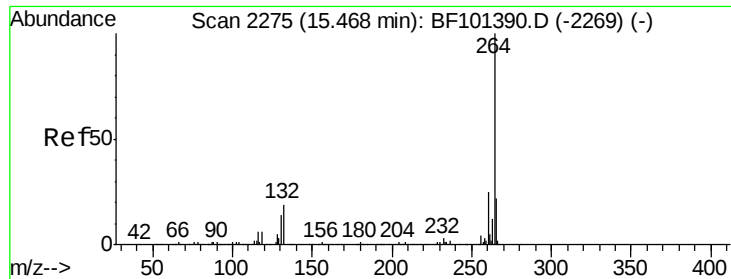
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#85
Indeno(1,2,3-cd)pyrene
Concen: 20.542 ng
RT: 16.90 min Scan# 2519
Delta R.T. -0.01 min
Lab File: BF101658.D
Acq: 22 Dec 2017 17:26

Tgt Ion	Ratio	Lower	Upper
276	100		
138	24.4	25.0	37.6#
277	24.6	20.1	30.1





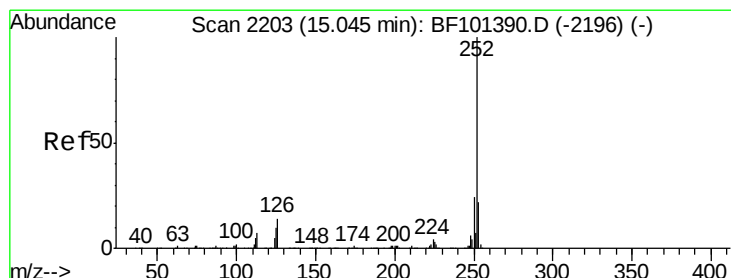
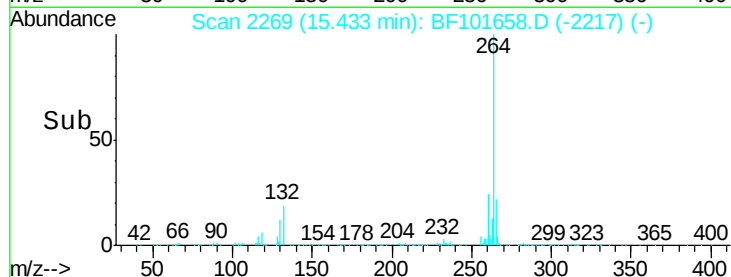
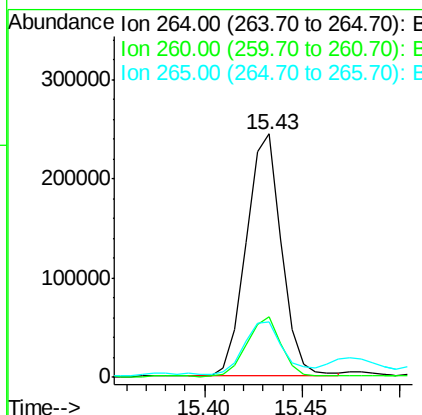
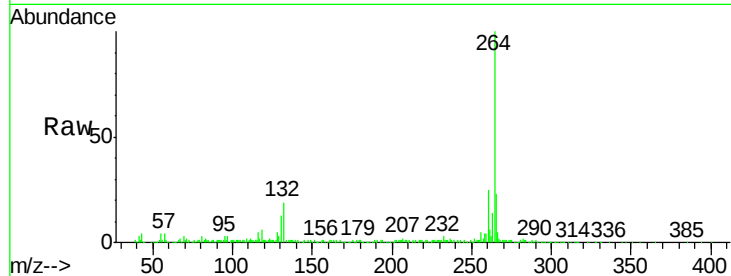
#86
Perylene-d12
Concen: 20.000 ng
RT: 15.43 min Scan# 2269
Delta R.T. 0.01 min
Lab File: BF101658.D
Acq: 22 Dec 2017 17:26

Instrument :
BNA_F
ClientSampleId :
EO-02-122017-B

Tgt Ion	Ratio	Resp	Lower	Upper
264	100	306161		
260	24.8	19.2	28.8	
265	22.7	17.5	26.3	

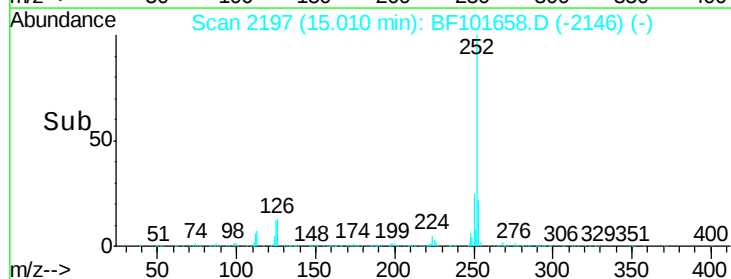
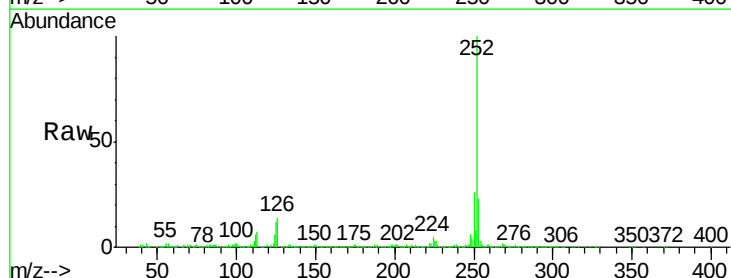
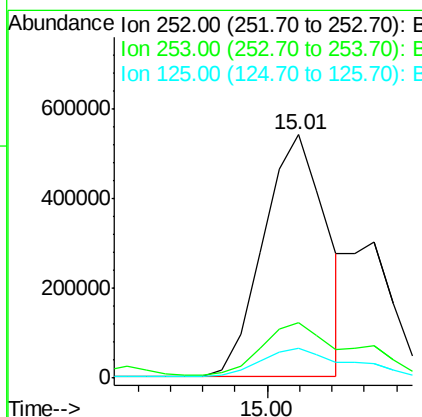
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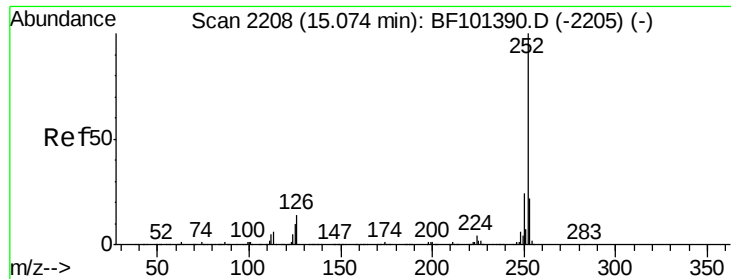
Sohil
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#87
Benzo(b)fluoranthene
Concen: 39.190 ng m
RT: 15.01 min Scan# 2197
Delta R.T. 0.00 min
Lab File: BF101658.D
Acq: 22 Dec 2017 17:26

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	731328		
253	23.0	17.0	25.6	
125	12.2	9.0	13.6	





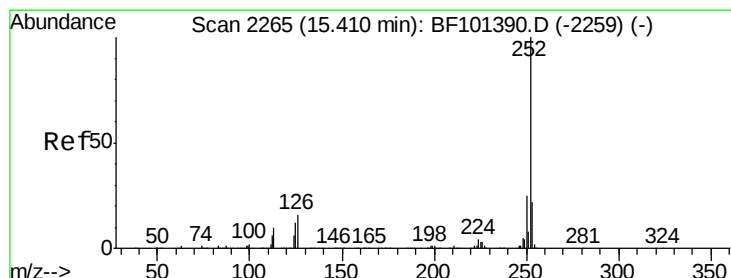
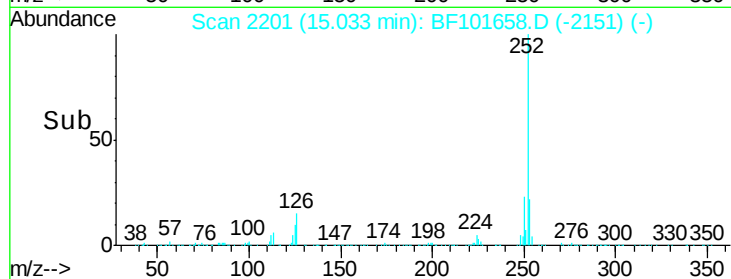
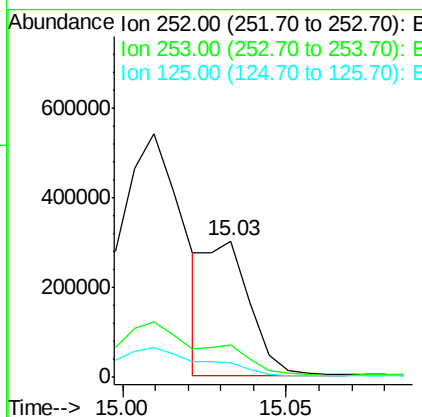
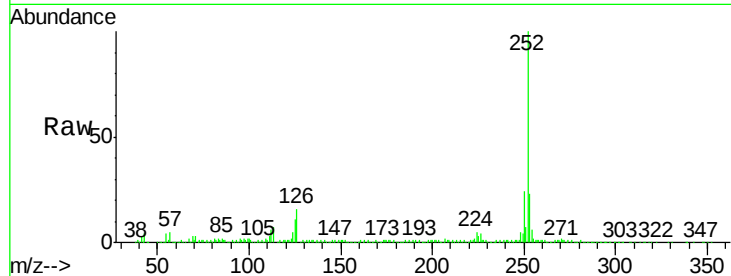
#88
Benzo(k)fluoranthene
Concen: 15.709 ng m
RT: 15.03 min Scan# 2201
Delta R.T. -0.01 min
Lab File: BF101658.D
Acq: 22 Dec 2017 17:26

Instrument :
BNA_F
ClientSampleId :
EO-02-122017-B

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	285019		
253	23.5	17.9	26.9	
125	10.7	10.2	15.2	

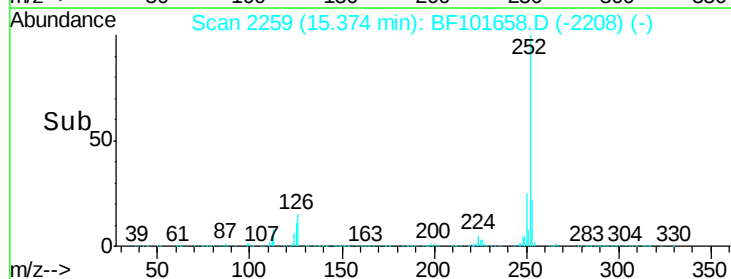
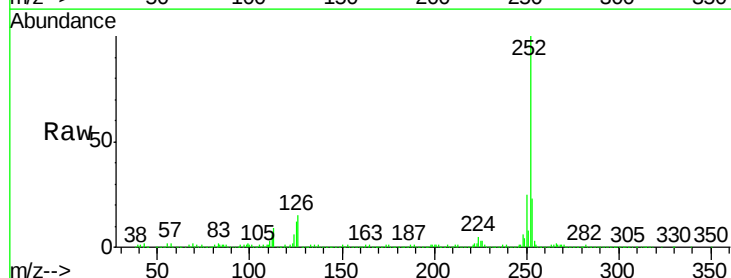
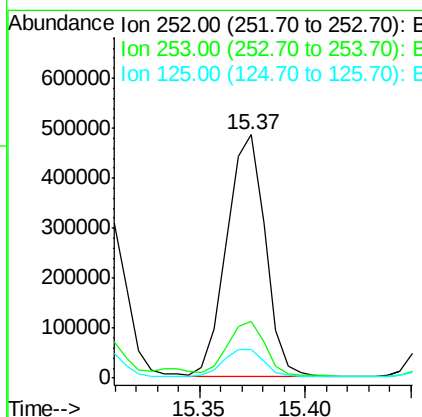
Manual Integrations
APPROVED

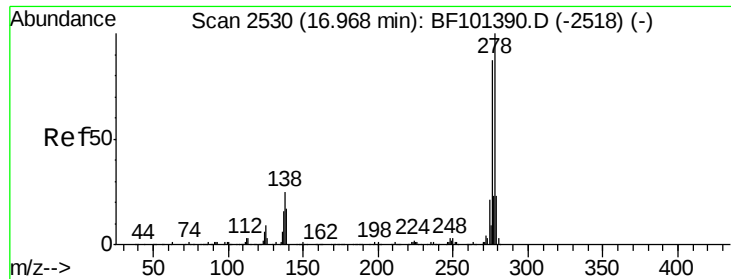
Sohil
12/26/2017 1:37:20 PM



#89
Benzo(a)pyrene
Concen: 35.563 ng
RT: 15.37 min Scan# 2259
Delta R.T. 0.00 min
Lab File: BF101658.D
Acq: 22 Dec 2017 17:26

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	611794		
253	23.2	17.1	25.7	
125	11.7	9.8	14.6	





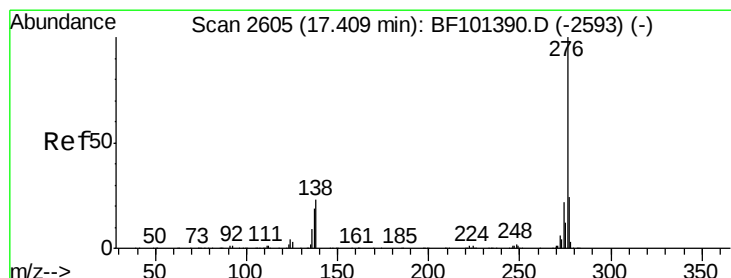
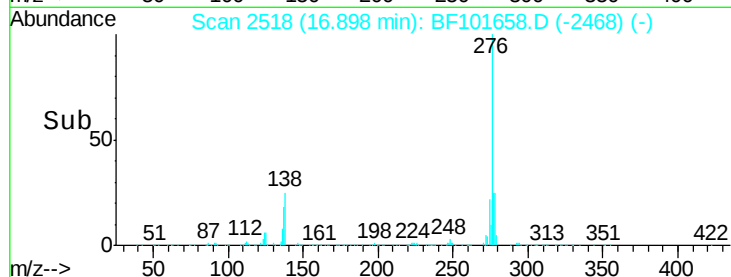
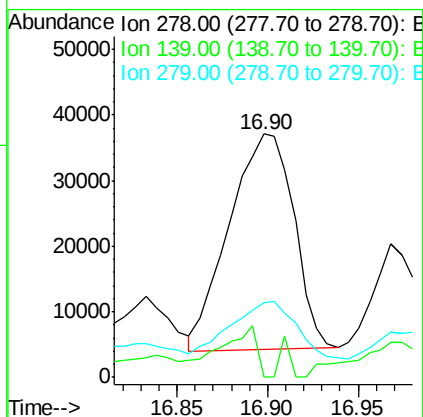
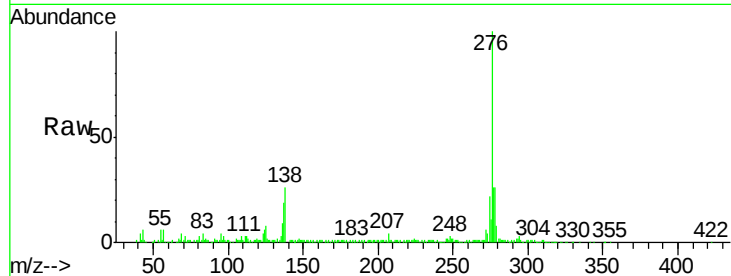
#90
Dibenzo(a,h)anthracene
Concen: 5.493 ng
RT: 16.90 min Scan# 2518
Delta R.T. -0.01 min
Lab File: BF101658.D
Acq: 22 Dec 2017 17:26

Instrument :
BNA_F
ClientSampleId :
EO-02-122017-B

Tgt Ion	Ratio	Lower	Upper
278	100		
139	0.0	15.9	23.9#
279	30.7	19.0	28.4#

Manual Integrations
APPROVED

Sohil
12/26/2017 1:37:20 PM



#91
Benzo(g,h,i)perylene
Concen: 20.901 ng
RT: 17.35 min Scan# 2595
Delta R.T. 0.01 min
Lab File: BF101658.D
Acq: 22 Dec 2017 17:26

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.4	17.9	26.9
138	24.5	21.8	32.8

