

Data Path : Z:\HPCHEM1\BNA F\DATA\BF102017\
 Data File : BF099695.D
 Acq On : 20 Oct 2017 12:39
 Operator : SJ/JU
 Sample : I5953-01 5X
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 EO-02-101717-A

Manual Integrations
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Quant Time: Oct 22 00:01:19 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092317.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Oct 20 13:11:43 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.81	152	102277	20.00	ng	-0.01
21) Naphthalene-d8	8.09	136	423151	20.00	ng	-0.01
38) Acenaphthene-d10	9.85	164	194040	20.00	ng	-0.01
63) Phenanthrene-d10	11.33	188	322817	20.00	ng	-0.01
75) Chrysene-d12	13.98	240	180912	20.00	ng	0.00
86) Perylene-d12	15.44	264	181404	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.43	112	96633	15.04	ng	0.00
7) Phenol-d6	6.45	99	122926	15.51	ng	-0.01
23) Nitrobenzene-d5	7.38	82	68751	10.42	ng	-0.01
41) 2,4,6-Tribromophenol	10.64	330	25684	16.18	ng	-0.01
44) 2-Fluorobiphenyl	9.16	172	156634	13.48	ng	-0.01
78) Terphenyl-d14	12.92	244	106502	13.39	ng	0.00
Target Compounds						
57) Fluorene	10.40	166	42627	3.281	ng	96
70) Phenanthrene	11.36	178	265194	15.347	ng	98
71) Anthracene	11.41	178	55430	3.135	ng	98
74) Fluoranthene	12.55	202	227611	13.008	ng	98
77) Pyrene	12.78	202	256837	18.618	ng	98
80) Benzo(a)anthracene	13.97	228	75939	6.932	ng	98
82) Chrysene	14.00	228	79855	7.657	ng	96
85) Indeno(1,2,3-cd)pyrene	16.91	276	31415	3.766	ng	98
87) Benzo(b)fluoranthene	15.02	252	65226m	5.848	ng	
88) Benzo(k)fluoranthene	15.04	252	23070m	2.094	ng	
89) Benzo(a)pyrene	15.38	252	58721	5.736	ng	96
91) Benzo(a,h,i)perylene	17.36	276	34421	4.250	ng	96

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

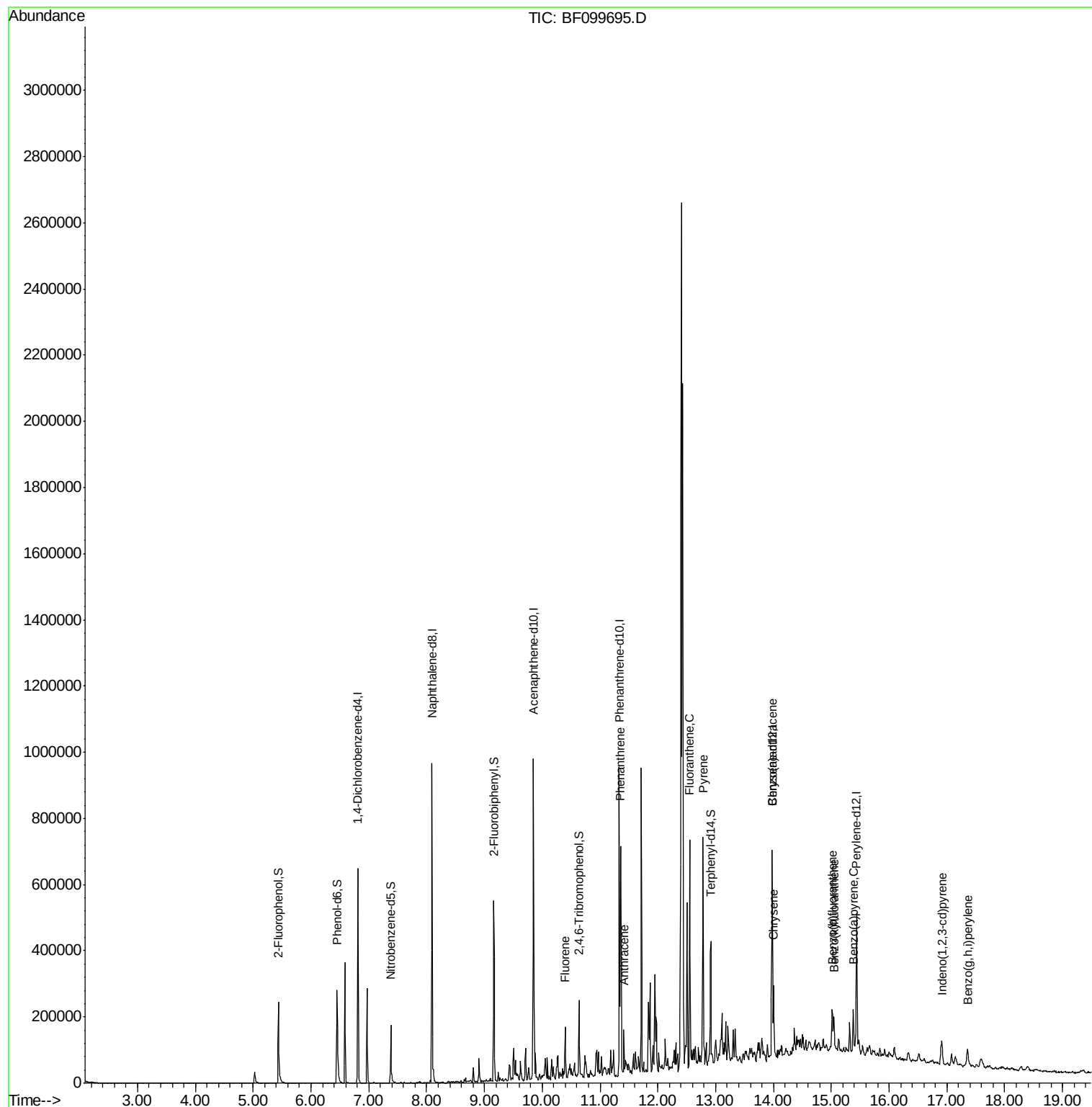
Data Path : Z:\HPCHEM1\BNA F\DATA\BF102017\
Data File : BF099695.D
Acq On : 20 Oct 2017 12:39
Operator : SJ/JU
Sample : I5953-01 5X
Misc :
ALS Vial : 4 Sample Multiplier: 1

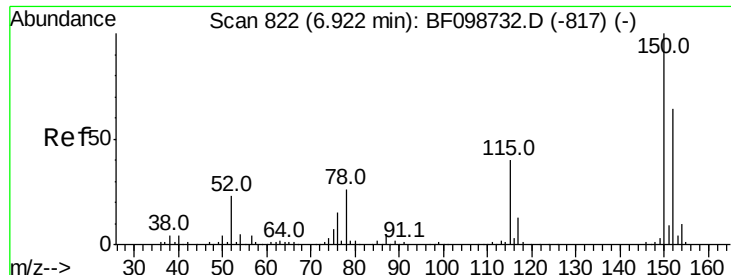
Instrument :
BNA_F
ClientSampled :
EO-02-101717-A

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

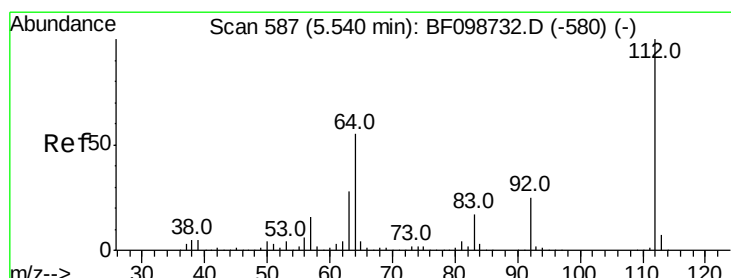
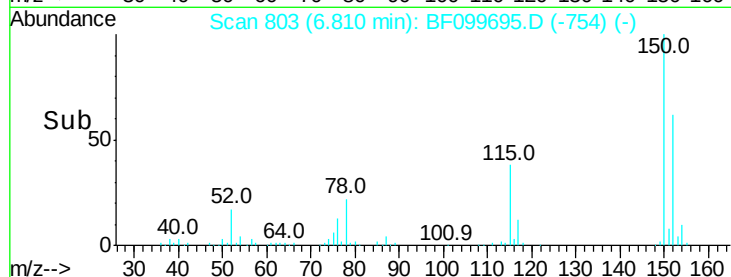
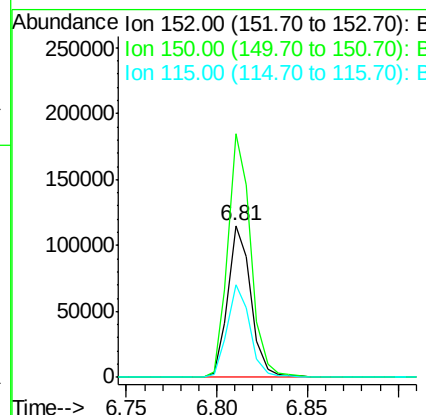
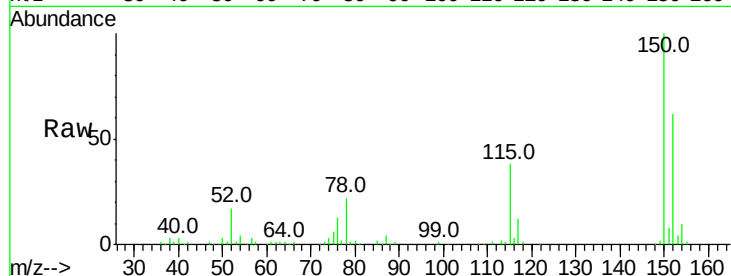
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.81 min Scan# 803
Delta R.T. -0.01 min
Lab File: BF099695.D
Acq: 20 Oct 2017 12:39

Instrument :
BNA_F
ClientSampleId :
EO-02-101717-A

Tot Ion	Ratio	Lower	Upper
152	100		
150	160.8	124.6	186.8
115	60.8	50.1	75.1

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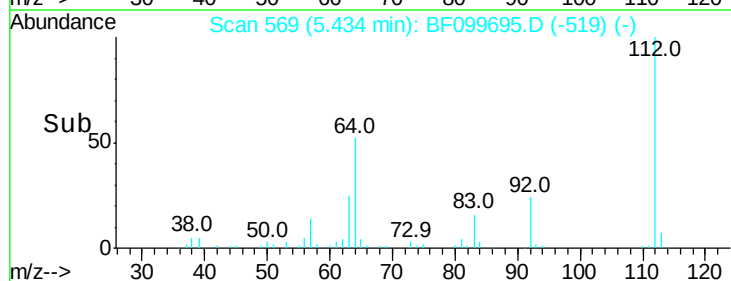
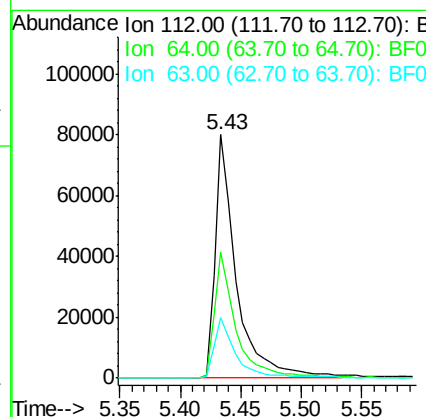
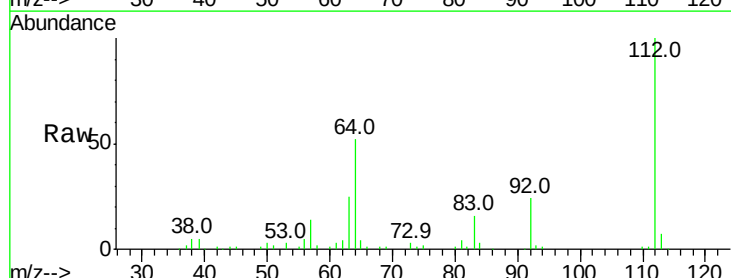
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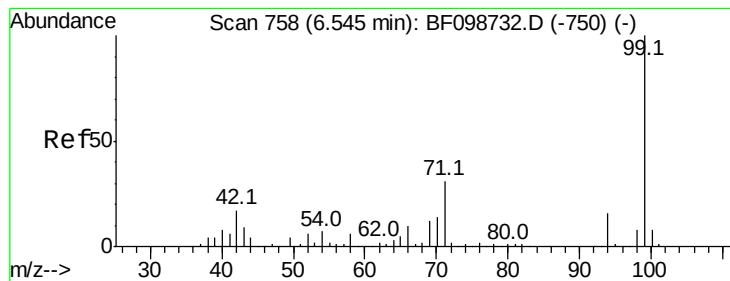


#5

2-Fluorophenol
Concen: 15.041 ng
RT: 5.43 min Scan# 569
Delta R.T. -0.01 min
Lab File: BF099695.D
Acq: 20 Oct 2017 12:39

Tgt Ion	Ratio	Lower	Upper
112	100		
64	51.9	47.9	71.9
63	24.8	23.7	35.5





#7

Phenol-d6

Concen: 15.510 ng

RT: 6.45 min Scan# 742

Delta R.T. -0.01 min

Lab File: BF099695.D

Acq: 20 Oct 2017 12:39

Instrument :

BNA_F

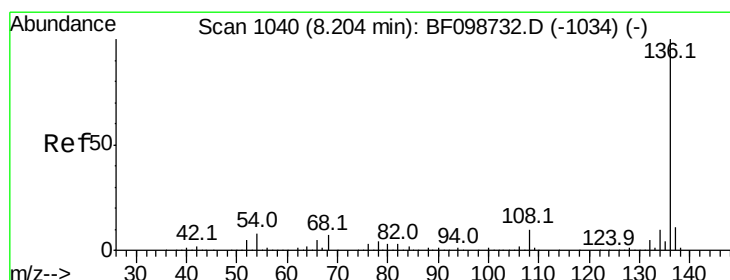
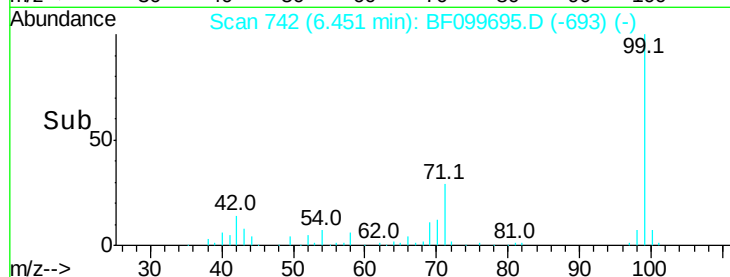
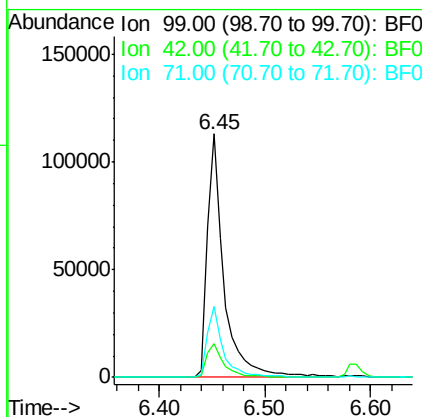
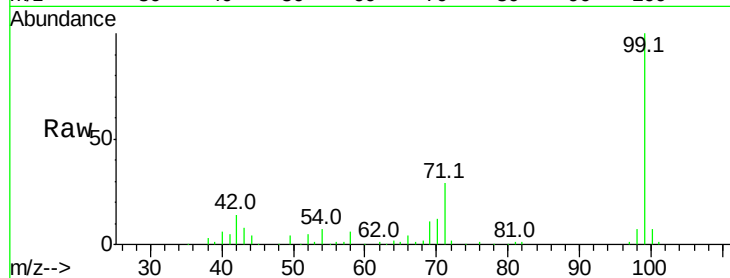
ClientSampleId :

EO-02-101717-A

Tot Ion	Ion	Ratio	Resp	Lower	Upper
99	100		122926		
42	13.8	14.5	21.7#		
71	29.3	25.4	38.0		

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#21

Naphthalene-d8

Concen: 20.000 ng

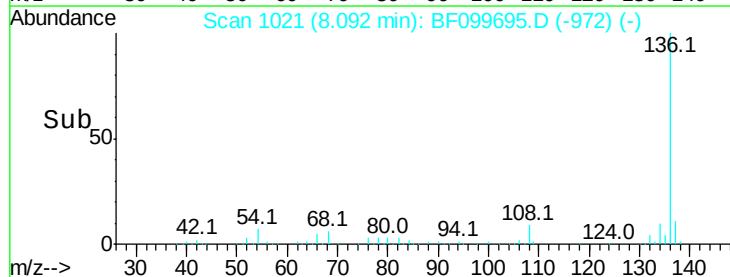
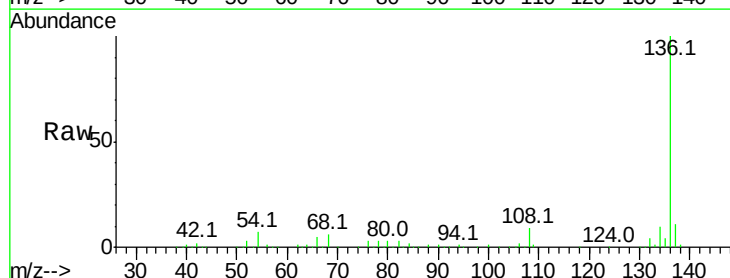
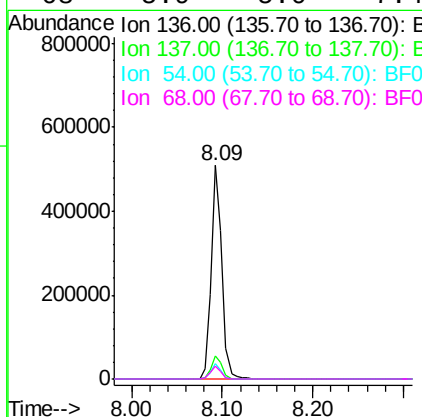
RT: 8.09 min Scan# 1021

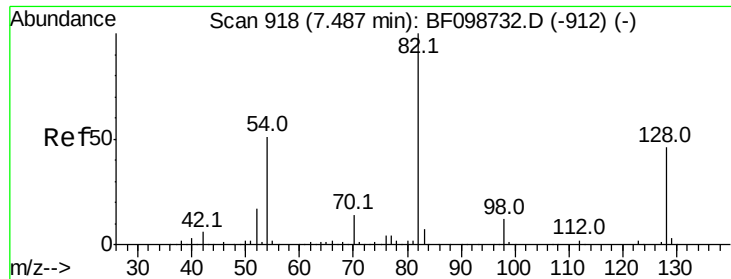
Delta R.T. -0.01 min

Lab File: BF099695.D

Acq: 20 Oct 2017 12:39

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
136	100		423151		
137	10.9	8.9	13.3		
54	7.1	6.6	9.8		
68	5.9	5.0	7.4		





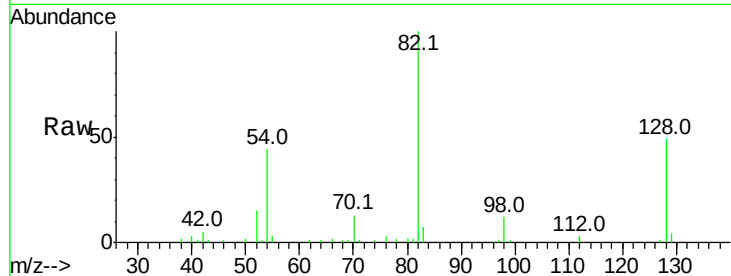
#23
 Nitrobenzene-d5
 Concen: 10.419 ng
 RT: 7.38 min Scan# 900
 Delta R.T. -0.01 min
 Lab File: BF099695.D
 Acq: 20 Oct 2017 12:39

Instrument :
 BNA_F
 ClientSampleId :
 EO-02-101717-A

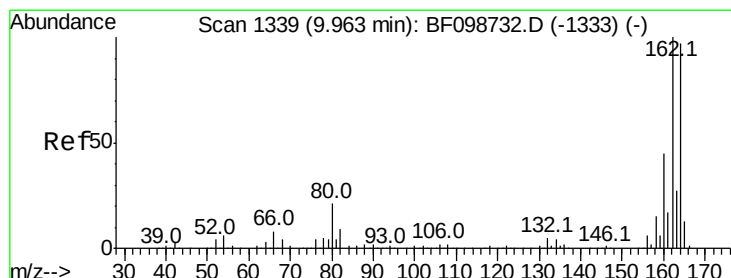
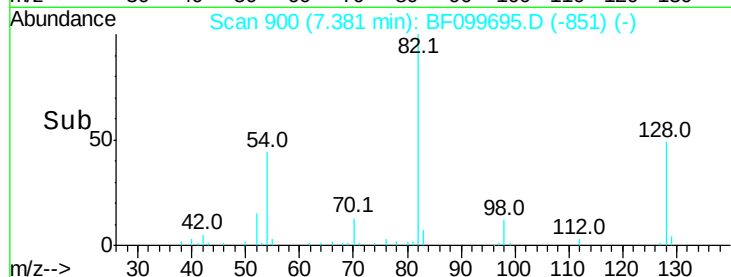
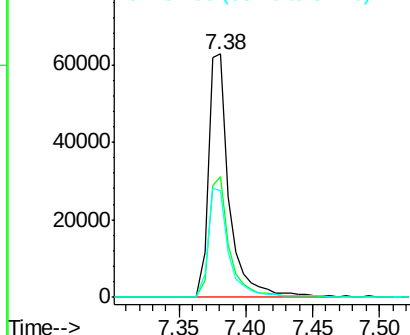
Tot Ion	82	Resp	68751
Ion Ratio	100	Lower	Upper
128	49.3	36.1	54.1
54	44.0	41.4	62.2

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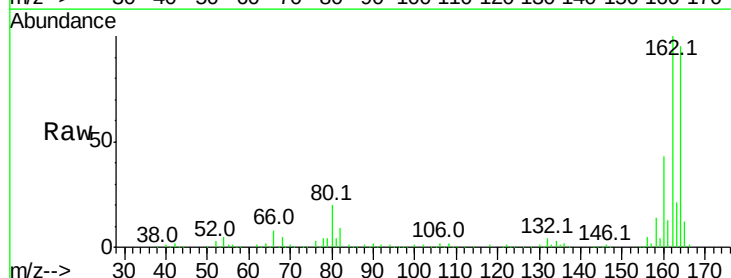


Abundance Ion 82.00 (81.70 to 82.70): BF0
 Ion 128.00 (127.70 to 128.70): B
 Ion 54.00 (53.70 to 54.70): BF0

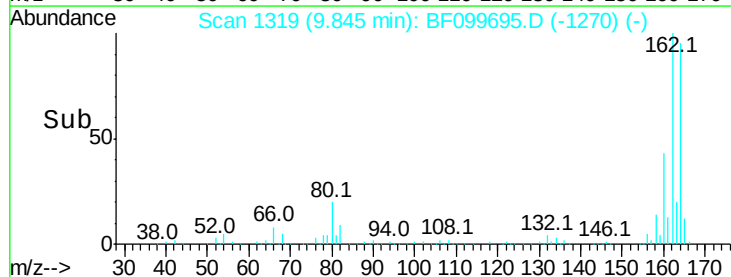
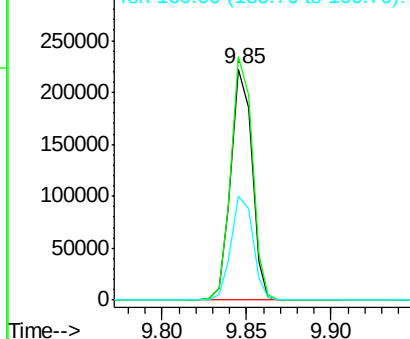


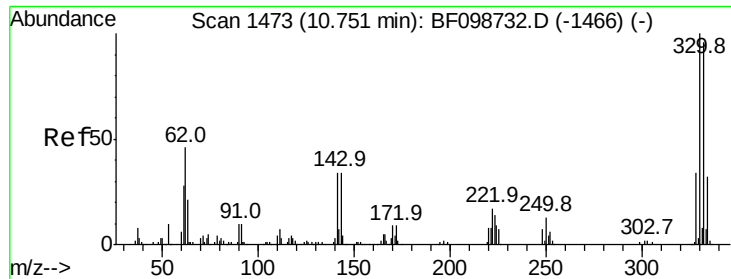
#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.85 min Scan# 1319
 Delta R.T. -0.01 min
 Lab File: BF099695.D
 Acq: 20 Oct 2017 12:39

Tgt Ion	164	Resp	194040
Ion Ratio	100	Lower	Upper
162	105.5	86.1	129.1
160	45.0	38.3	57.5



Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E





#41

2,4,6-Tribromophenol

Concen: 16.176 ng

RT: 10.64 min Scan# 1454

Delta R.T. -0.01 min

Lab File: BF099695.D

Acq: 20 Oct 2017 12:39

Instrument :

BNA_F

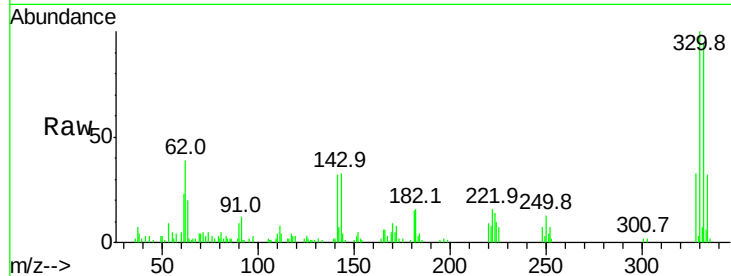
ClientSampleId :

EO-02-101717-A

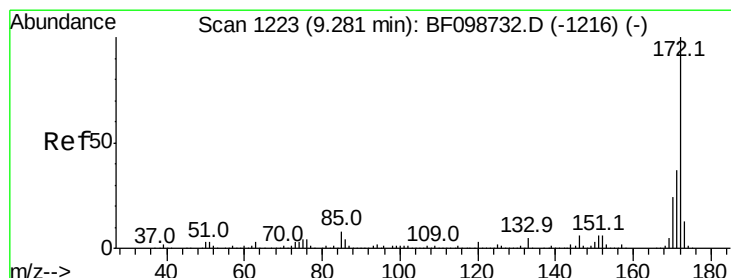
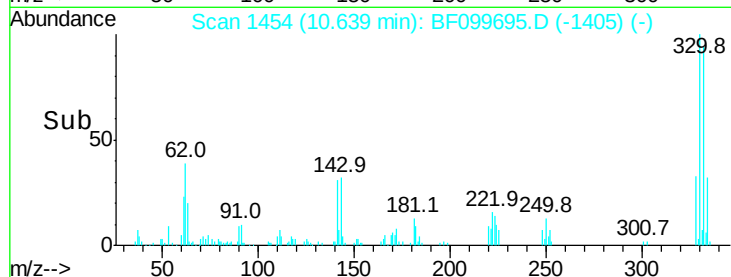
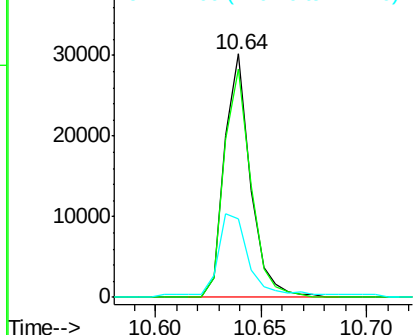
Tot Ion:	330	Resp:	25684
Ion Ratio	Lower	Upper	
330	100		
332	96.7	77.0	115.6
141	44.4	29.9	44.9

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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: 13.476 ng

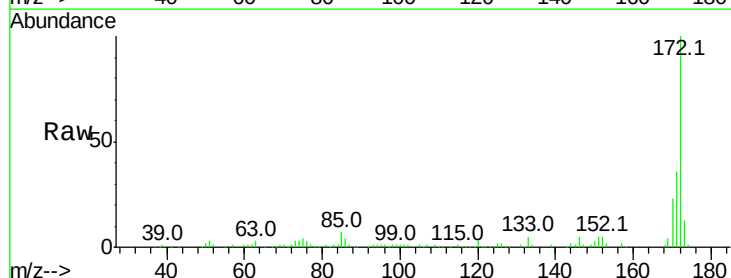
RT: 9.16 min Scan# 1203

Delta R.T. -0.01 min

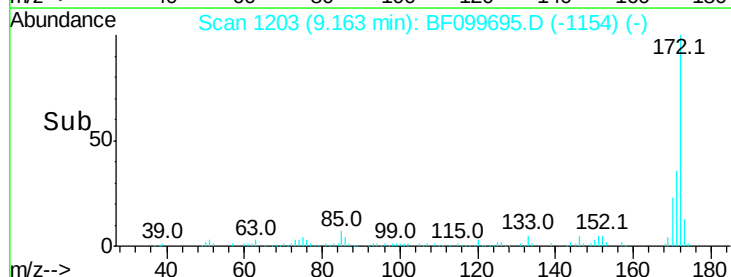
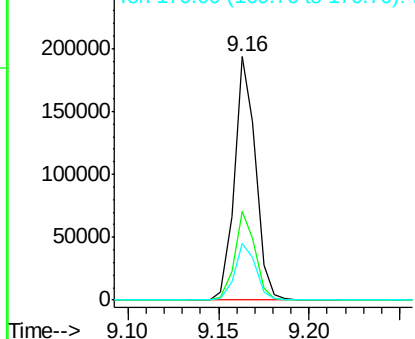
Lab File: BF099695.D

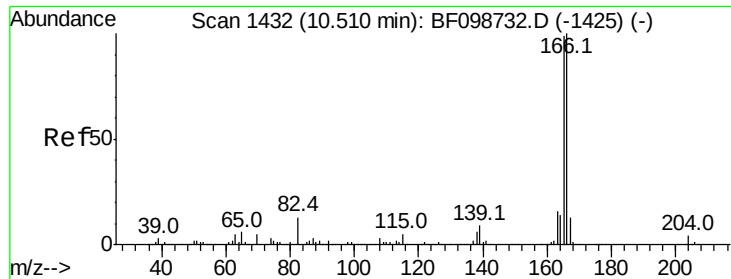
Acq: 20 Oct 2017 12:39

Tgt Ion:	172	Resp:	156634
Ion Ratio	Lower	Upper	
172	100		
171	36.5	29.7	44.5
170	23.1	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





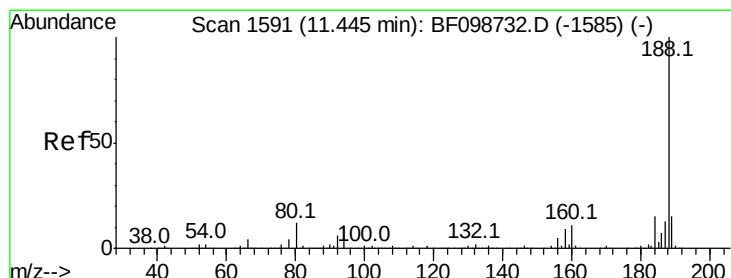
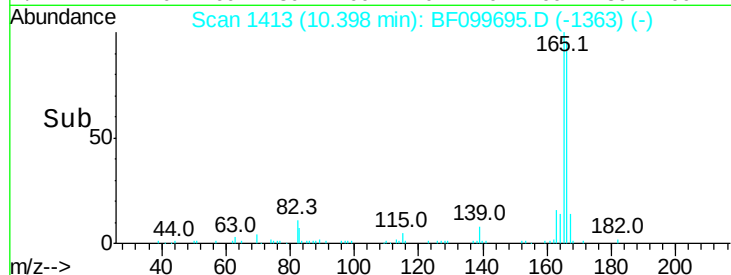
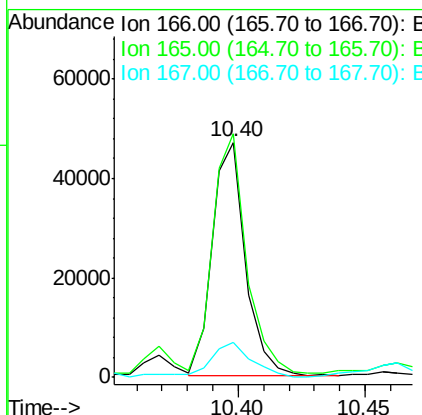
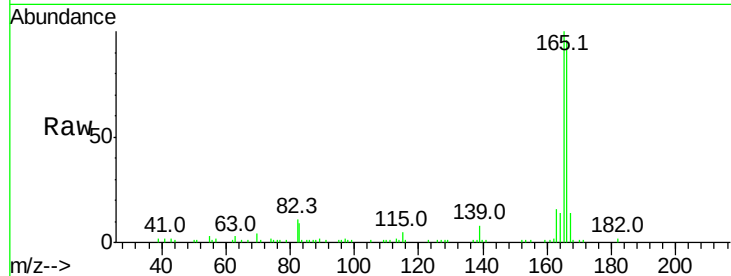
#57
 Fluorene
 Concen: 3.281 ng
 RT: 10.40 min Scan# 1413
 Delta R.T. -0.01 min
 Lab File: BF099695.D
 Acq: 20 Oct 2017 12:39

Instrument :
 BNA_F
 ClientSampleId :
 EO-02-101717-A

Tot Ion	Ratio	Lower	Upper
166	100		
165	103.7	79.8	119.8
167	14.8	10.6	16.0

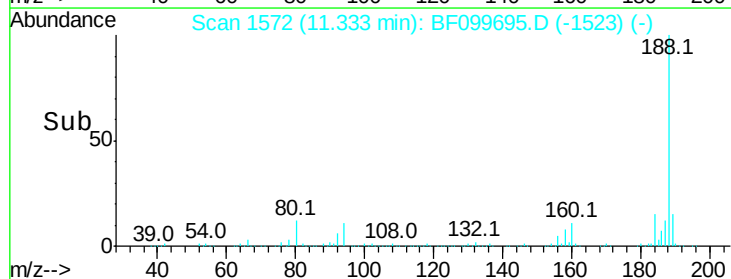
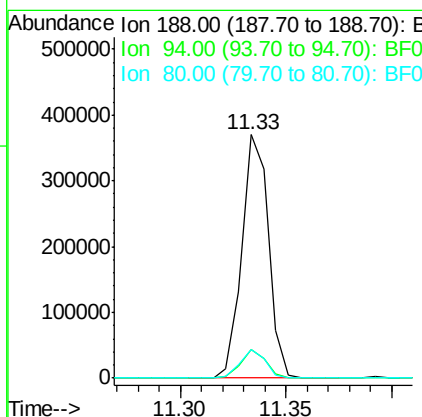
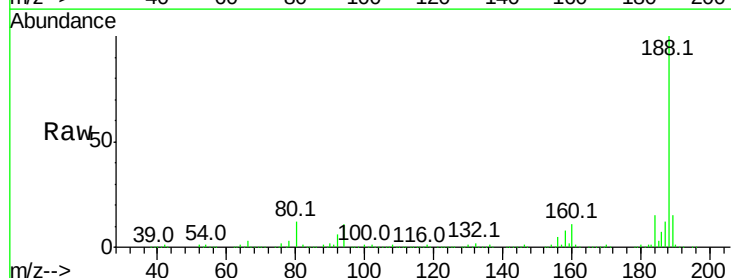
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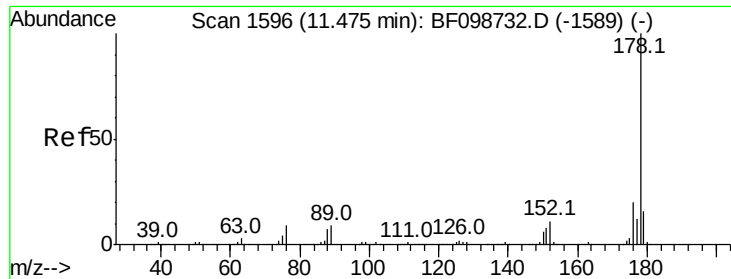
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#63
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.33 min Scan# 1572
 Delta R.T. -0.01 min
 Lab File: BF099695.D
 Acq: 20 Oct 2017 12:39

Tgt Ion	Ratio	Lower	Upper
188	100		
94	11.5	8.5	12.7
80	11.8	9.2	13.8





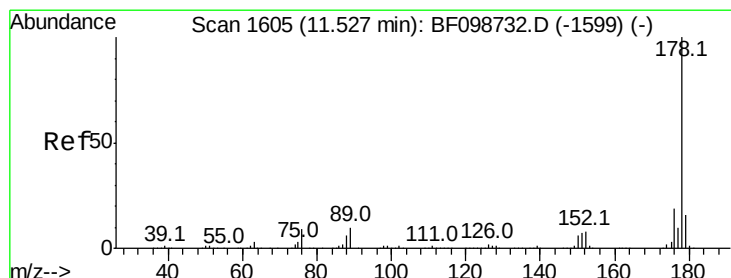
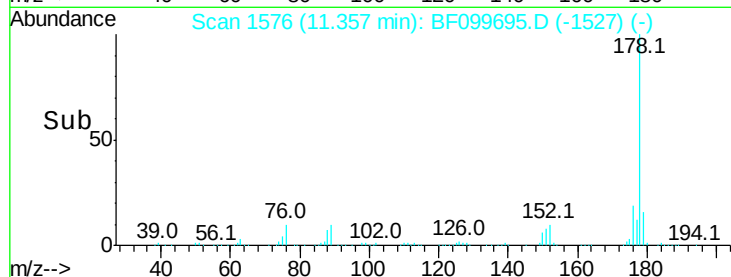
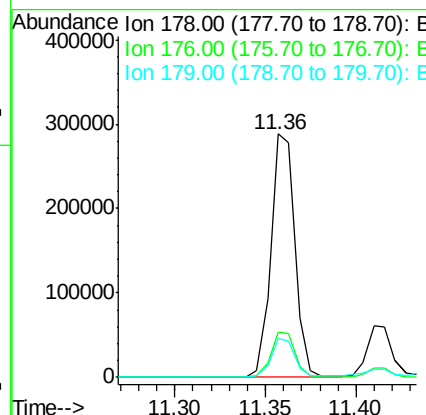
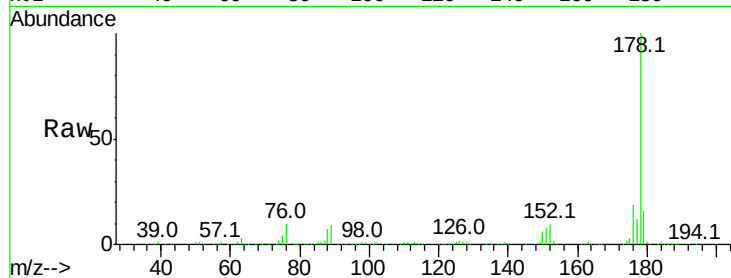
#70
Phenanthrene
Concen: 15.347 ng
RT: 11.36 min Scan# 1576
Delta R.T. -0.01 min
Lab File: BF099695.D
Acq: 20 Oct 2017 12:39

Instrument :
BNA_F
ClientSampleId :
EO-02-101717-A

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.8	23.8
179	15.9	13.0	19.6

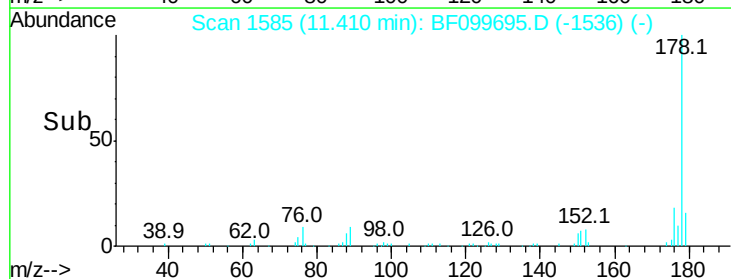
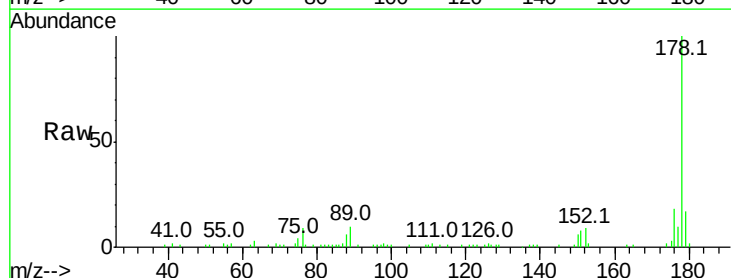
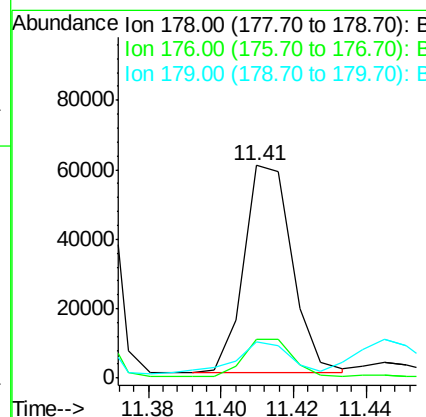
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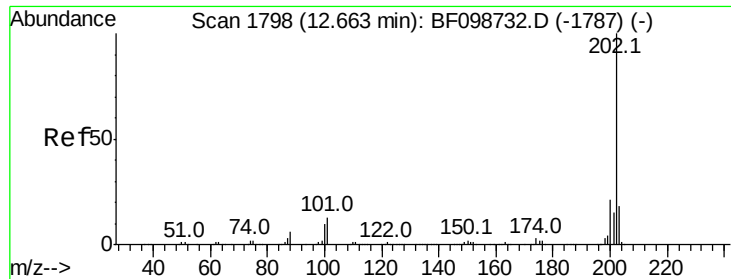
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#71
Anthracene
Concen: 3.135 ng
RT: 11.41 min Scan# 1585
Delta R.T. -0.01 min
Lab File: BF099695.D
Acq: 20 Oct 2017 12:39

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.2	15.4	23.2
179	16.8	12.6	19.0





#74

Fluoranthene

Concen: 13.008 ng

RT: 12.55 min Scan# 1779

Delta R.T. -0.01 min

Lab File: BF099695.D

Acq: 20 Oct 2017 12:39

Instrument :

BNA_F

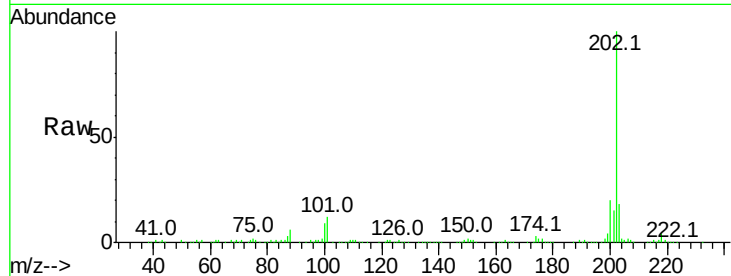
ClientSampleId :

EO-02-101717-A

Tot Ion	Ratio	Resp	Lower	Upper
202	100	227611		
101	12.5	0.0	34.1	
203	17.6	0.0	38.1	

Manual Integrations
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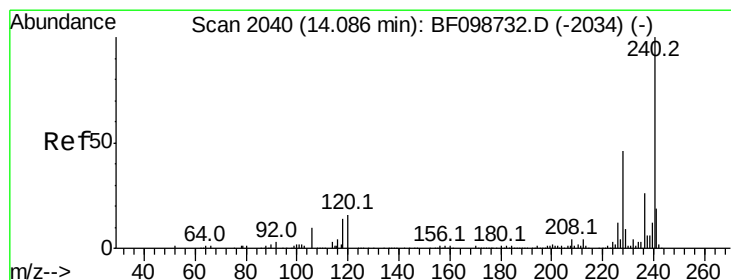
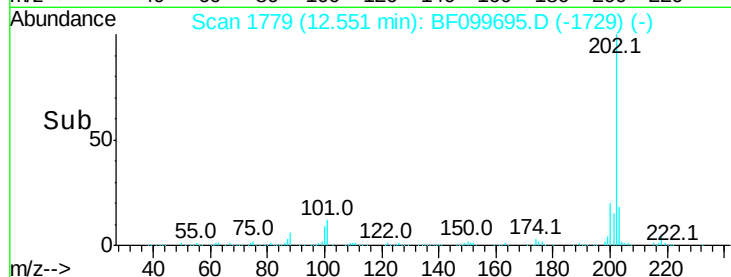
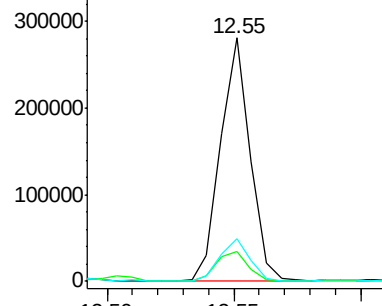
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Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#75

Chrysene-d12

Concen: 20.000 ng

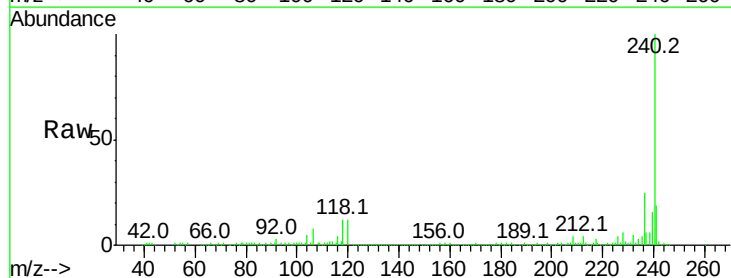
RT: 13.98 min Scan# 2022

Delta R.T. -0.01 min

Lab File: BF099695.D

Acq: 20 Oct 2017 12:39

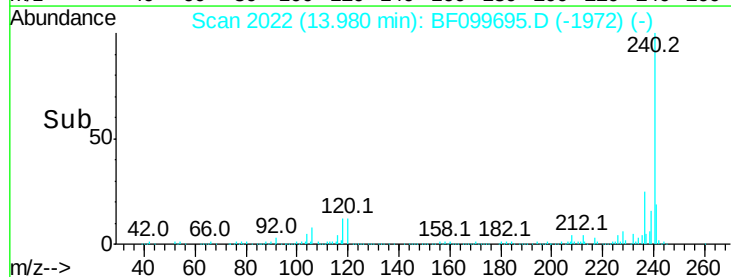
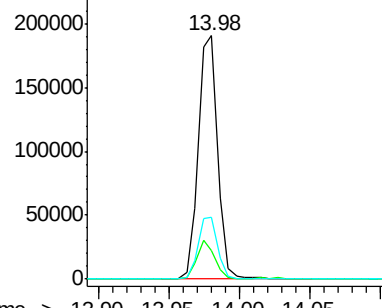
Tgt Ion	Ratio	Resp	Lower	Upper
240	100	180912		
120	11.9	9.5	14.3	
236	25.3	20.7	31.1	

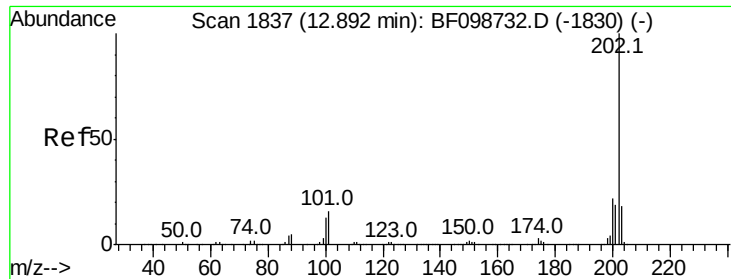


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 18.618 ng

RT: 12.78 min Scan# 1818

Delta R.T. -0.01 min

Lab File: BF099695.D

Acq: 20 Oct 2017 12:39

Instrument :

BNA_F

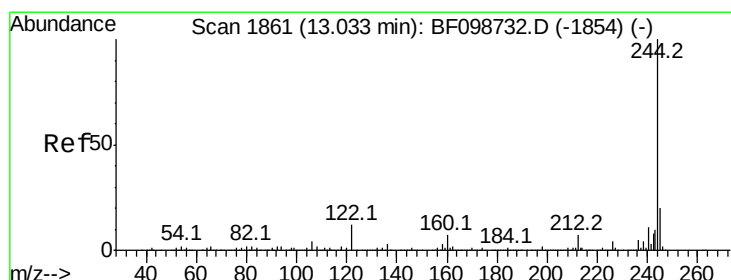
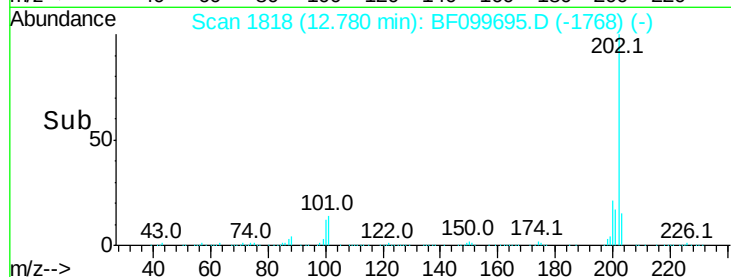
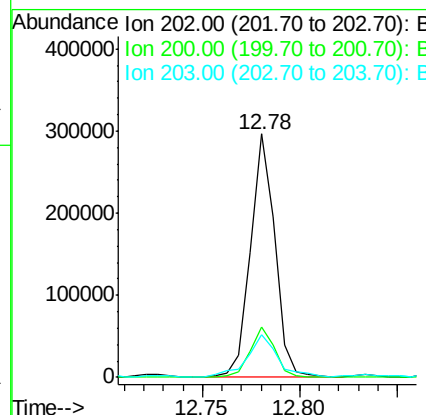
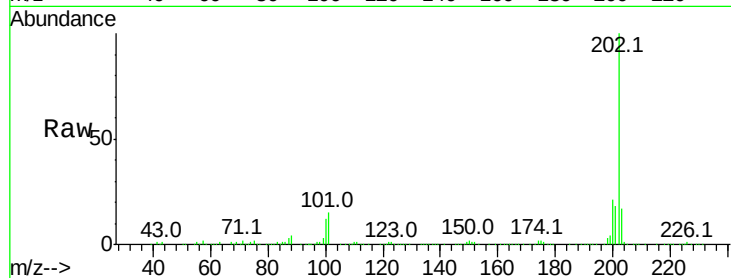
ClientSampleId :

EO-02-101717-A

Tot Ion:	202	Resp:	256837
Ion Ratio		Lower	Upper
202	100		
200	20.9	17.4	26.2
203	17.3	14.3	21.5

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#78

Terphenyl-d14

Concen: 13.388 ng

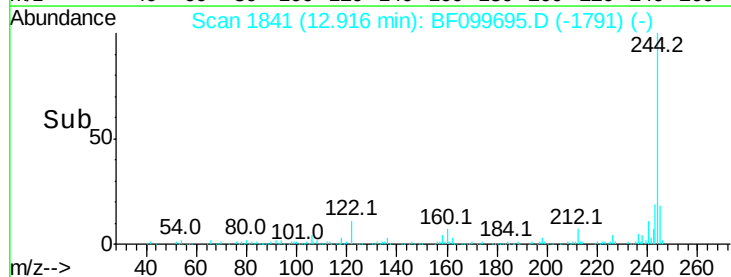
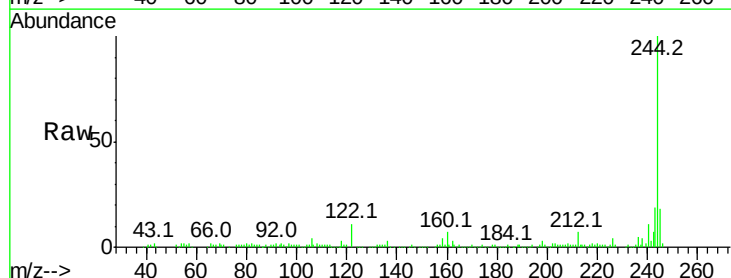
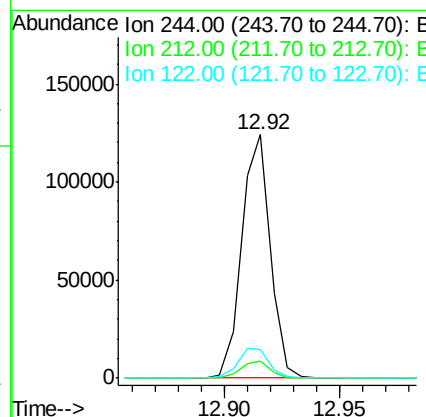
RT: 12.92 min Scan# 1841

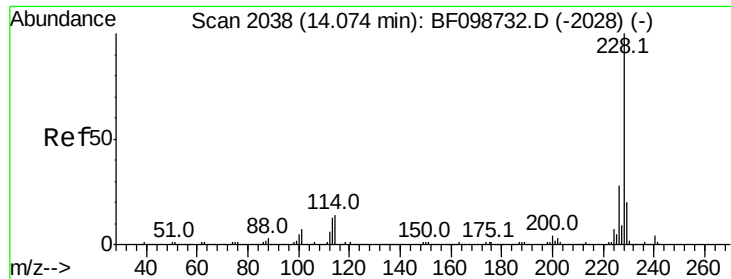
Delta R.T. -0.01 min

Lab File: BF099695.D

Acq: 20 Oct 2017 12:39

Tgt Ion:	244	Resp:	106502
Ion Ratio		Lower	Upper
244	100		
212	6.8	5.4	8.0
122	11.5	11.0	16.4





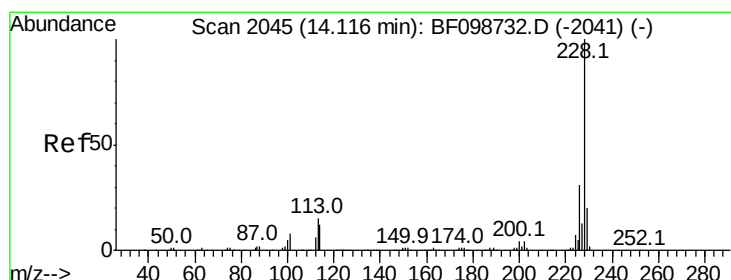
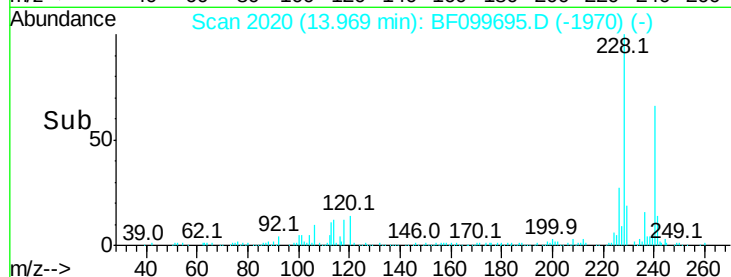
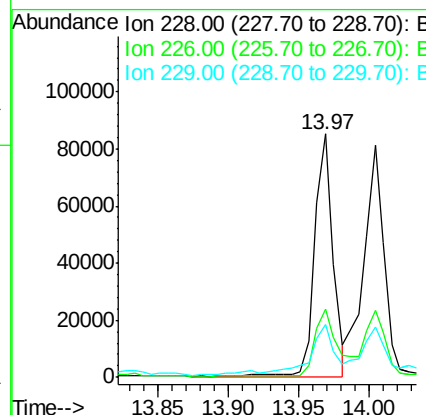
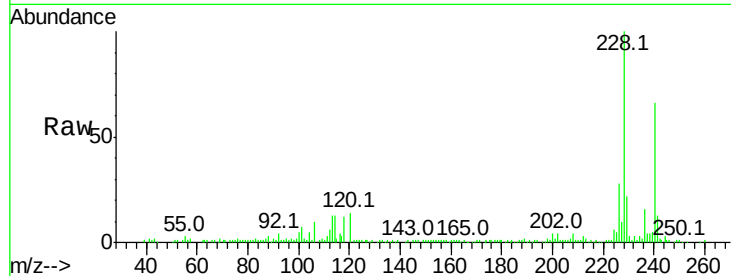
#80
Benzo(a)anthracene
Concen: 6.932 ng
RT: 13.97 min Scan# 2020
Delta R.T. -0.01 min
Lab File: BF099695.D
Acq: 20 Oct 2017 12:39

Instrument :
BNA_F
ClientSampleId :
EO-02-101717-A

Tot Ion	Ratio	Lower	Upper
228	100		
226	28.3	22.6	33.8
229	21.8	15.8	23.6

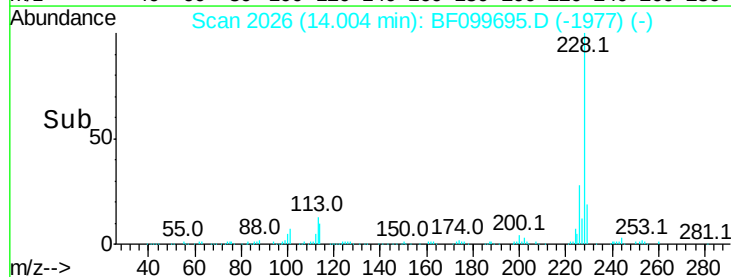
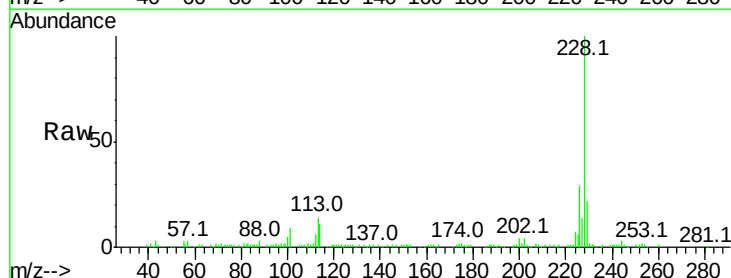
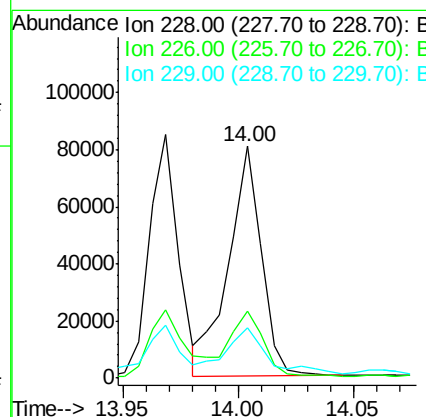
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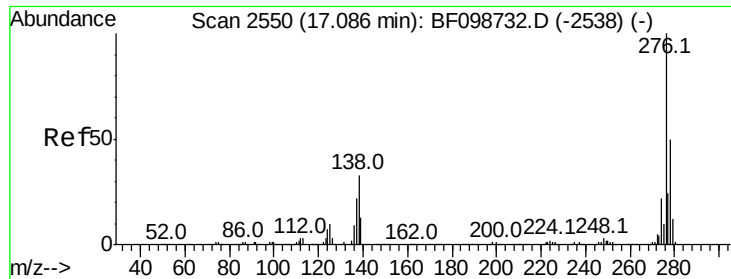
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#82
Chrysene
Concen: 7.657 ng
RT: 14.00 min Scan# 2026
Delta R.T. -0.01 min
Lab File: BF099695.D
Acq: 20 Oct 2017 12:39

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.1	25.0	37.6
229	21.9	16.2	24.4





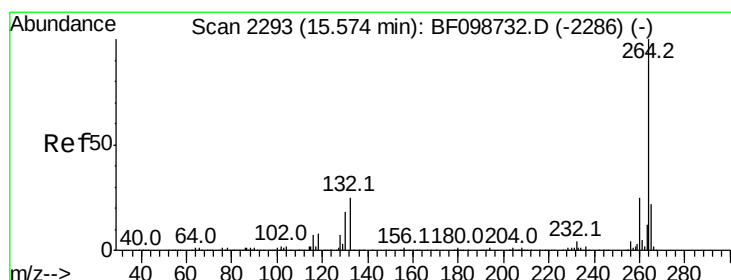
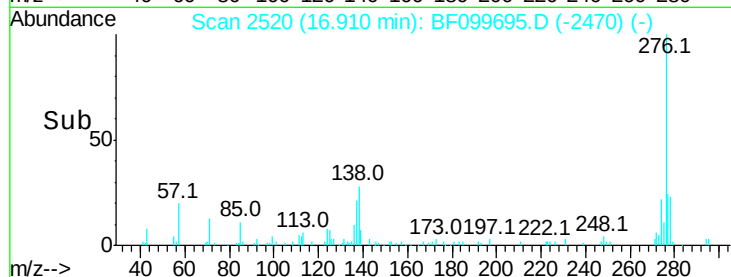
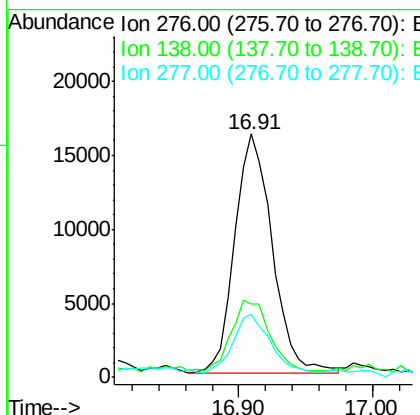
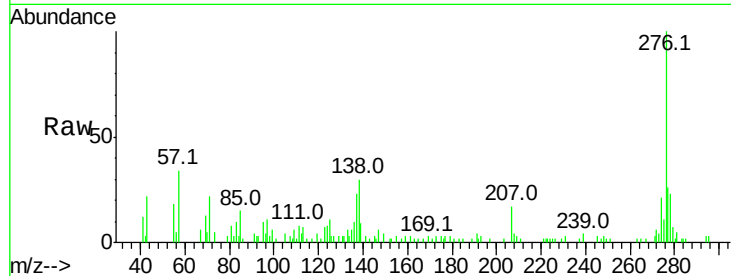
#85
Indeno(1,2,3-cd)pyrene
Concen: 3.766 ng
RT: 16.91 min Scan# 2520
Delta R.T. -0.01 min
Lab File: BF099695.D
Acq: 20 Oct 2017 12:39

Instrument :
BNA_F
ClientSampleId :
EO-02-101717-A

Tot Ion	Ratio	Lower	Upper
276	100		
138	30.5	25.0	37.6
277	23.9	20.1	30.1

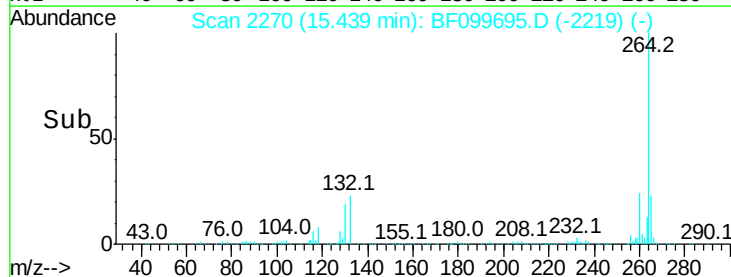
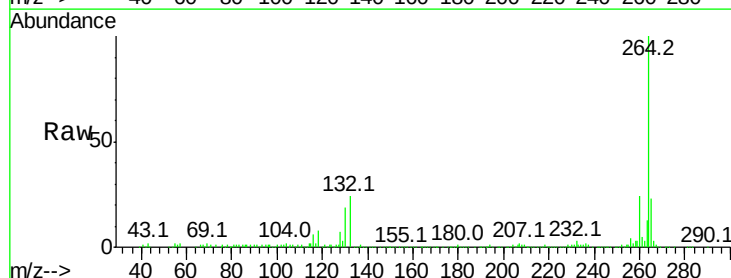
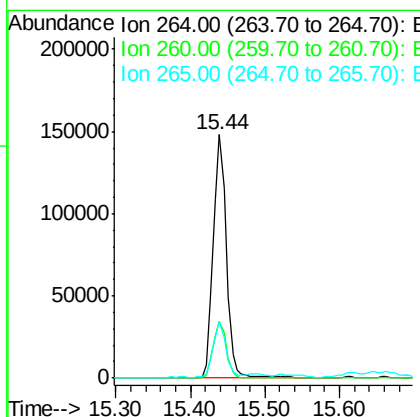
Manual Integrations
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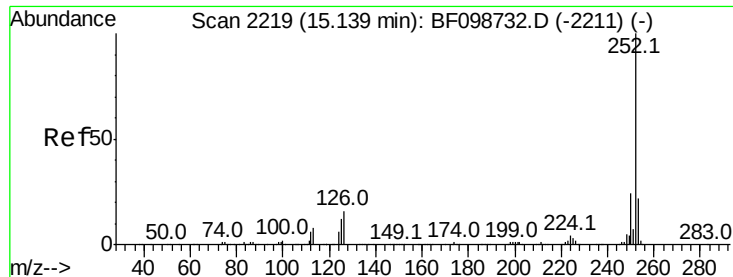
Sohil
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#86
Perylene-d12
Concen: 20.000 ng
RT: 15.44 min Scan# 2270
Delta R.T. 0.00 min
Lab File: BF099695.D
Acq: 20 Oct 2017 12:39

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.6	19.2	28.8
265	23.1	17.5	26.3





#87

Benzo(b)fluoranthene

Concen: 5.848 ng m

RT: 15.02 min Scan# 2198

Delta R.T. -0.01 min

Lab File: BF099695.D

Acq: 20 Oct 2017 12:39

Instrument :

BNA_F

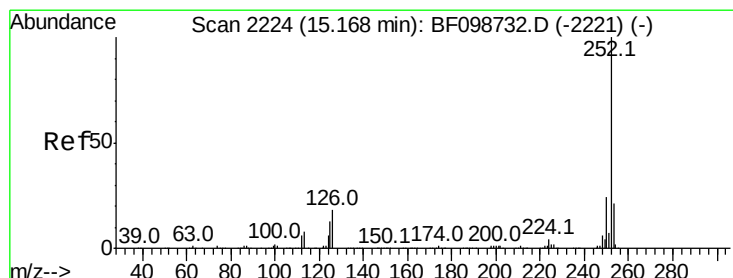
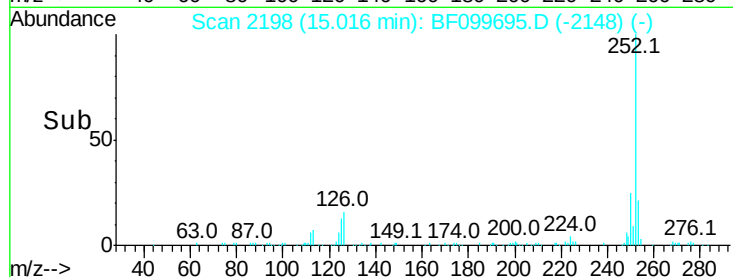
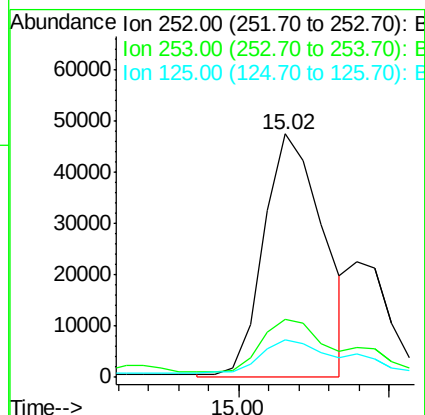
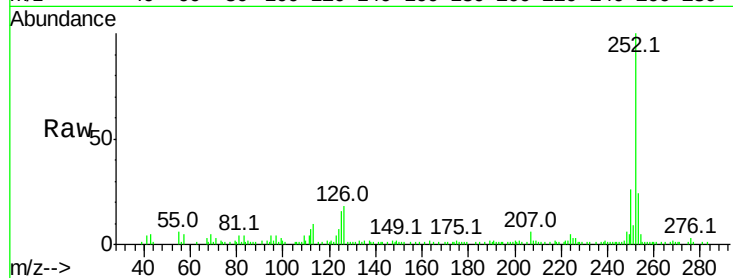
ClientSampleId :

EO-02-101717-A

Tot Ion:	252	Resp:	65226
Ion Ratio	Lower	Upper	
252	100		
253	23.9	17.0	25.6
125	15.6	9.0	13.6#

Manual Integrations
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#88

Benzo(k)fluoranthene

Concen: 2.094 ng m

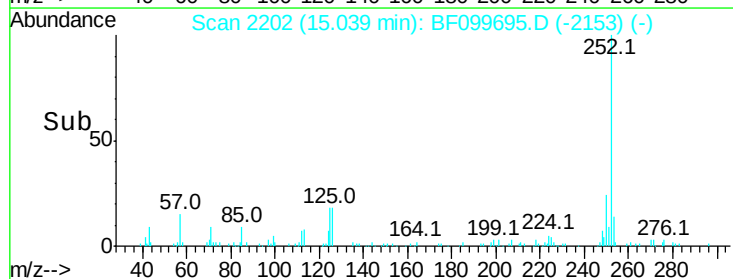
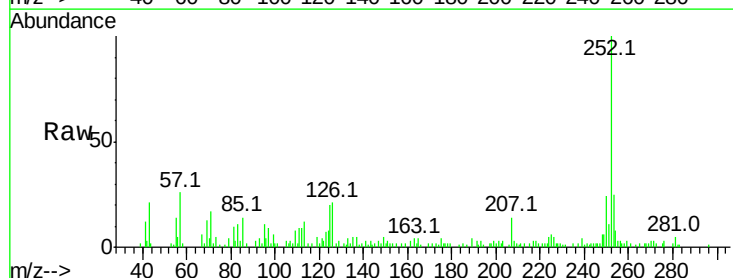
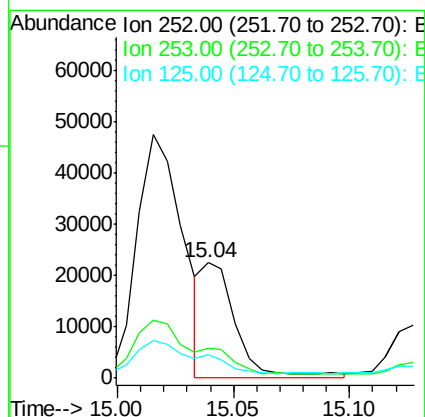
RT: 15.04 min Scan# 2202

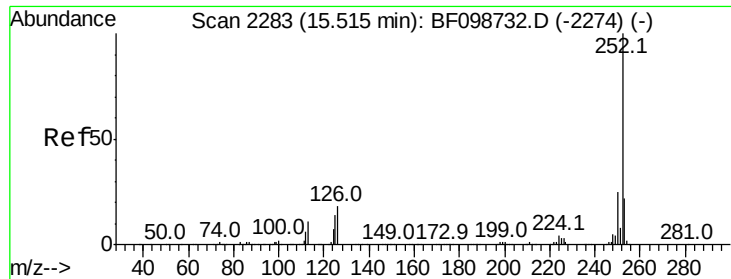
Delta R.T. -0.01 min

Lab File: BF099695.D

Acq: 20 Oct 2017 12:39

Tgt Ion:	252	Resp:	23070
Ion Ratio	Lower	Upper	
252	100		
253	25.4	17.9	26.9
125	20.2	10.2	15.2#





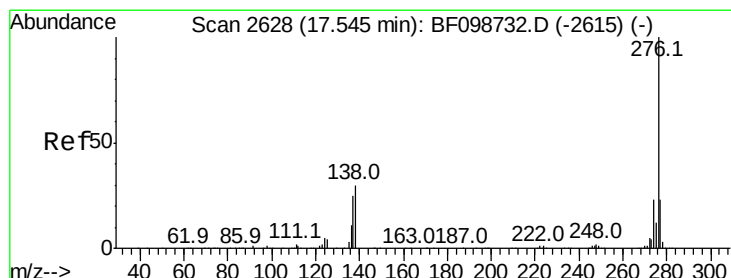
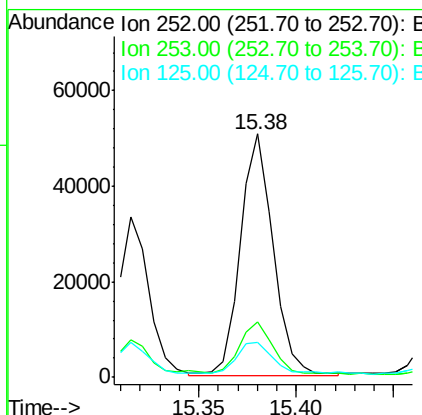
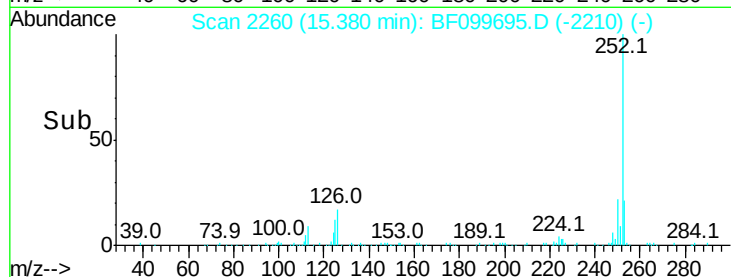
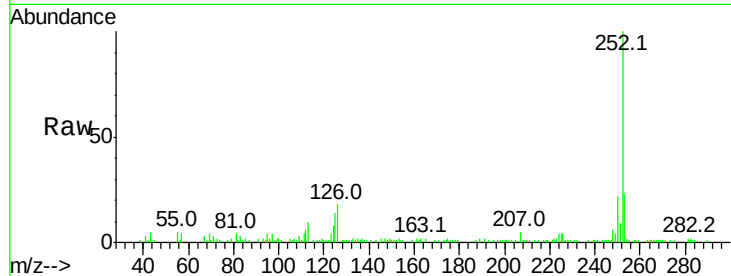
#89
Benzo(a)pyrene
Concen: 5.736 ng
RT: 15.38 min Scan# 2260
Delta R.T. -0.01 min
Lab File: BF099695.D
Acq: 20 Oct 2017 12:39

Instrument :
BNA_F
ClientSampleId :
EO-02-101717-A

Tot Ion:	252	Resp:	58721
Ion Ratio	Lower	Upper	
252	100		
253	22.8	17.1	25.7
125	14.4	9.8	14.6

Manual Integrations
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#91
Benzo(g,h,i)perylene
Concen: 4.250 ng
RT: 17.36 min Scan# 2596
Delta R.T. 0.00 min
Lab File: BF099695.D
Acq: 20 Oct 2017 12:39

Tgt Ion:	276	Resp:	34421
Ion Ratio	Lower	Upper	
276	100		
277	25.1	17.9	26.9
138	28.6	21.8	32.8

