

Data Path : Z:\HPCHEM1\BNA F\DATA\BF020118\
 Data File : BF102697.D
 Acq On : 1 Feb 2018 20:15
 Operator : SJ/JU
 Sample : J1405-02 5X
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-04(CB#3-LINE-BOTTOM@4)

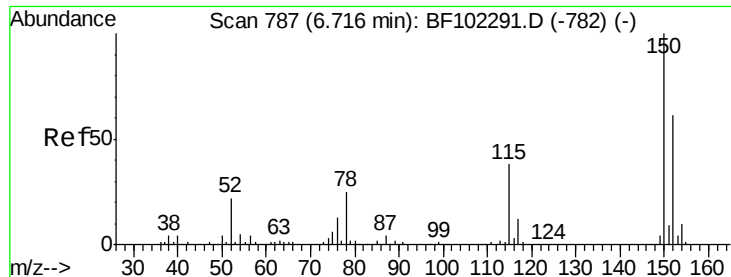
Manual Integrations
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 2/2/2018 9:52:53 AM

Quant Time: Feb 02 01:25:21 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF012218.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jan 31 18:38:00 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.70	152	148530	20.00	ng	0.00
21) Naphthalene-d8	7.98	136	655369	20.00	ng	0.00
38) Acenaphthene-d10	9.73	164	302577	20.00	ng	-0.01
63) Phenanthrene-d10	11.22	188	508716	20.00	ng	0.00
75) Chrysene-d12	13.87	240	289825	20.00	ng	0.00
86) Perylene-d12	15.30	264	280282	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.35	112	259463	26.49	ng	0.04
7) Phenol-d6	6.38	99	249130	21.10	ng	0.02
23) Nitrobenzene-d5	7.27	82	154980	13.59	ng	0.00
41) 2,4,6-Tribromophenol	10.53	330	55842	18.63	ng	0.00
44) 2-Fluorobiphenyl	9.05	172	333217	16.19	ng	-0.01
78) Terphenyl-d14	12.80	244	278377	21.65	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.00	128	121423	3.711	ng	98
37) 2-Methylnaphthalene	8.70	142	53230	2.443	ng	94
51) Acenaphthene	9.76	154	252475	13.195	ng	98
54) Dibenzofuran	9.94	168	255740	9.876	ng	99
57) Fluorene	10.28	166	351384	17.124	ng	98
70) Phenanthrene	11.25	178	2196596	74.099	ng	99
71) Anthracene	11.30	178	631315	20.865	ng	99
72) Carbazole	11.47	167	393072	13.316	ng	99
74) Fluoranthene	12.45	202	2159779	71.446	ng	100
77) Pyrene	12.67	202	1872810	83.577	ng	99
80) Benzo(a)anthracene	13.86	228	826531	46.321	ng	98
82) Chrysene	13.89	228	737313	40.691	ng	98
85) Indeno(1,2,3-cd)pyrene	16.70	276	489295	32.697	ng	93
87) Benzo(b)fluoranthene	14.89	252	920349m	50.662	ng	
88) Benzo(k)fluoranthene	14.92	252	249917m	14.561	ng	
89) Benzo(a)pyrene	15.24	252	636793	38.866	ng	# 93
90) Dibenzo(a,h)anthracene	16.70	278	111338m	8.389	ng	
91) Benzo(g,h,i)perylene	17.13	276	480136	36.639	ng	95

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



#1

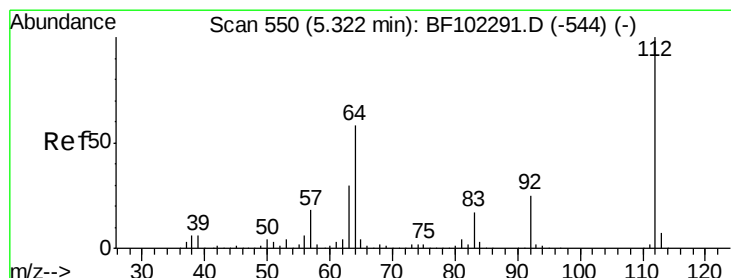
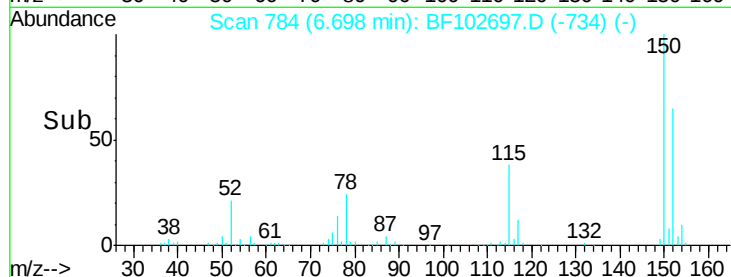
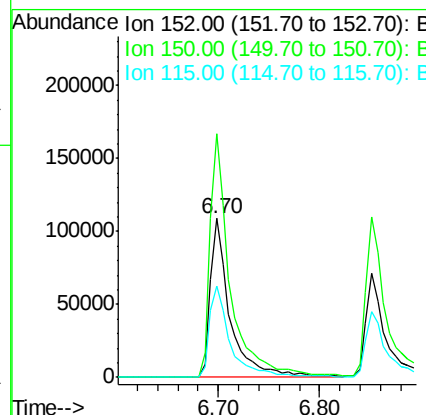
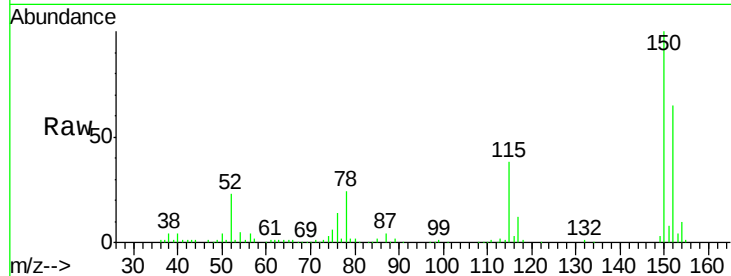
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.70 min Scan# 784
Delta R.T. -0.01 min
Lab File: BF102697.D
Acq: 1 Feb 2018 20:15

Instrument :
BNA_F
ClientSampleId :
TP-04(CB#3-LINE-BOTTOM@4)

Tot Ion	Ratio	Lower	Upper
152	100		
150	153.2	124.6	186.8
115	57.7	50.1	75.1

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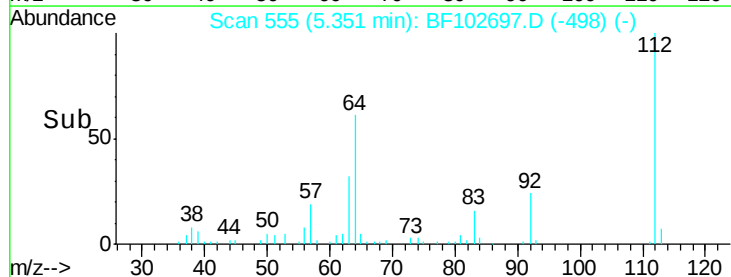
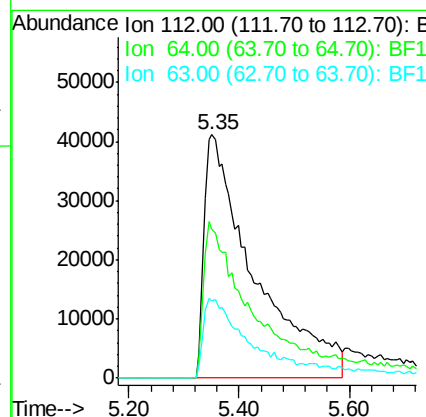
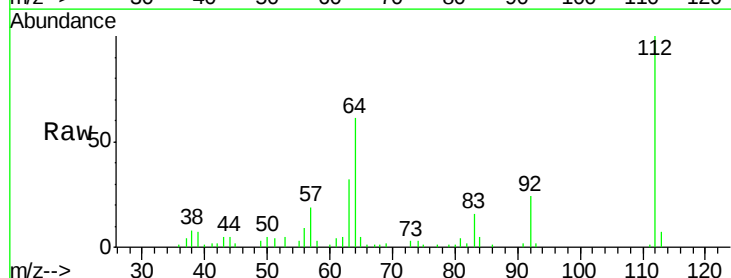
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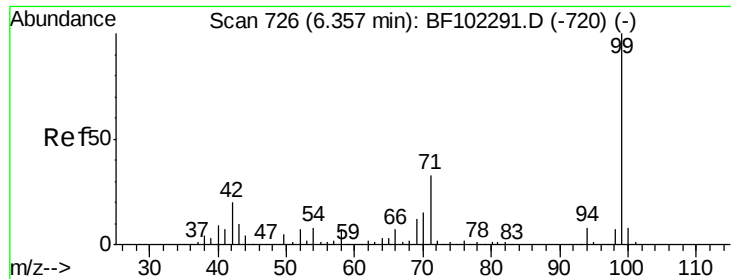


#5

2-Fluorophenol
Concen: 26.487 ng
RT: 5.35 min Scan# 555
Delta R.T. 0.04 min
Lab File: BF102697.D
Acq: 1 Feb 2018 20:15

Tgt Ion	Ratio	Lower	Upper
112	100		
64	61.1	47.9	71.9
63	31.7	23.7	35.5





#7

Phenol-d6

Concen: 21.095 ng

RT: 6.38 min Scan# 730

Delta R.T. 0.02 min

Lab File: BF102697.D

Acq: 1 Feb 2018 20:15

Instrument :

BNA_F

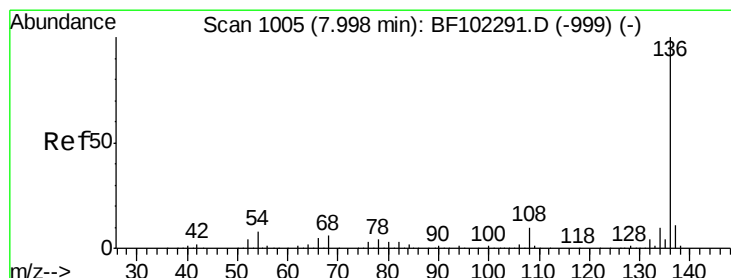
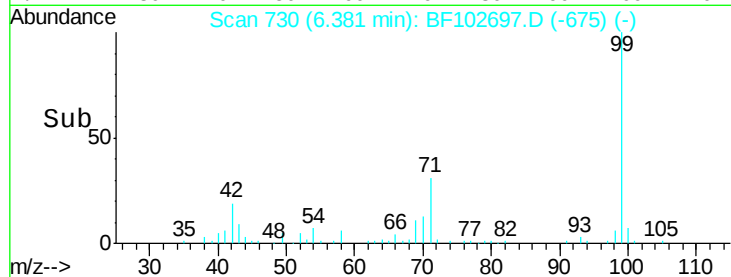
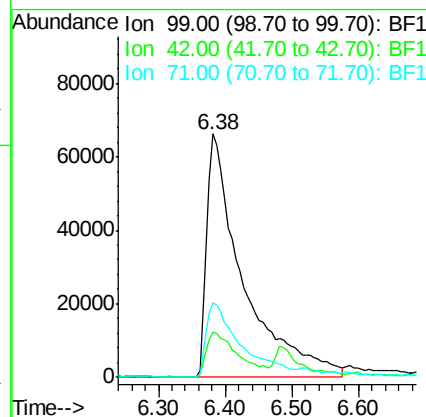
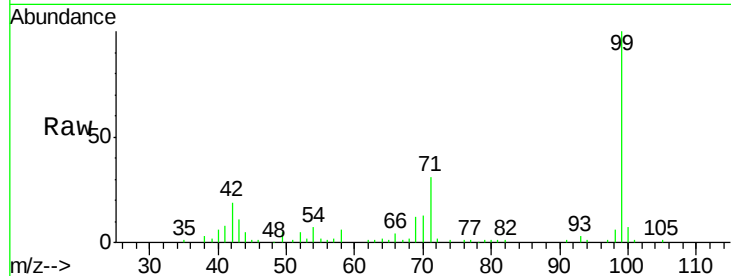
ClientSampleId :

TP-04(CB#3-LINE-BOTTOM@4)

Tot Ion:	99	Resp:	249130
Ion Ratio	Lower	Upper	
99	100		
42	18.5	14.5	21.7
71	30.9	25.4	38.0

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#21

Naphthalene-d8

Concen: 20.000 ng

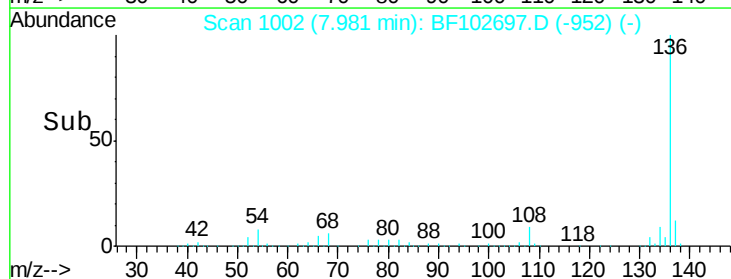
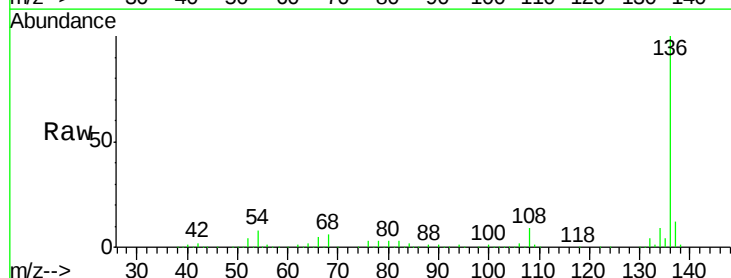
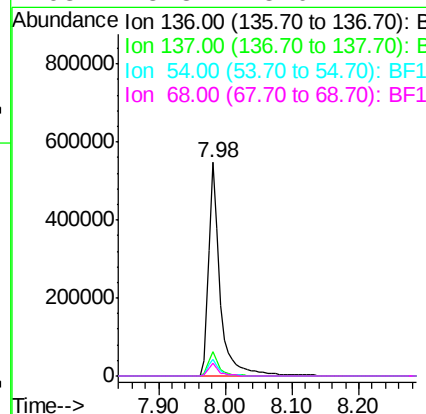
RT: 7.98 min Scan# 1002

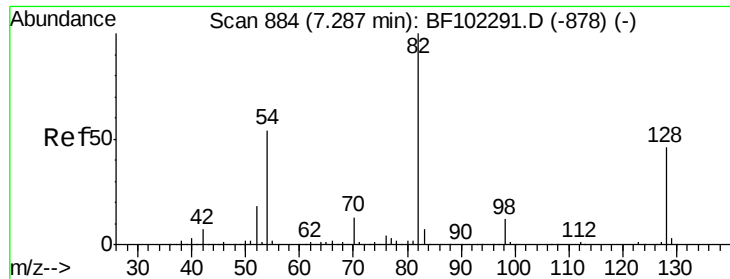
Delta R.T. -0.01 min

Lab File: BF102697.D

Acq: 1 Feb 2018 20:15

Tgt Ion:	136	Resp:	655369
Ion Ratio	Lower	Upper	
136	100		
137	11.6	8.9	13.3
54	7.7	6.6	9.8
68	5.8	5.0	7.4





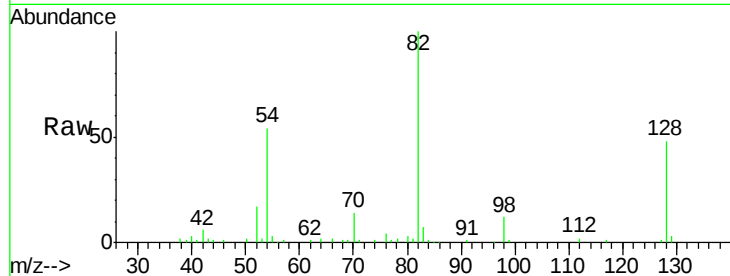
#23
Nitrobenzene-d5
Concen: 13.590 ng
RT: 7.27 min Scan# 882
Delta R.T. -0.01 min
Lab File: BF102697.D
Acq: 1 Feb 2018 20:15

Instrument :
BNA_F
ClientSampleId :
TP-04(CB#3-LINE-BOTTOM@4)

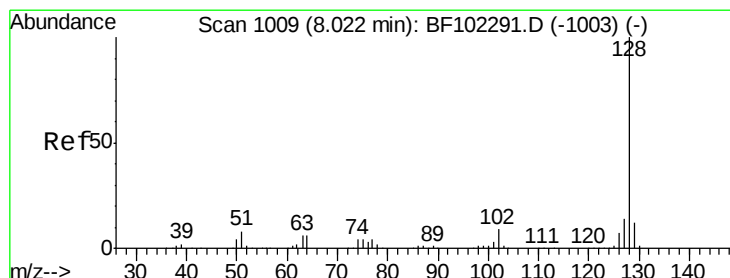
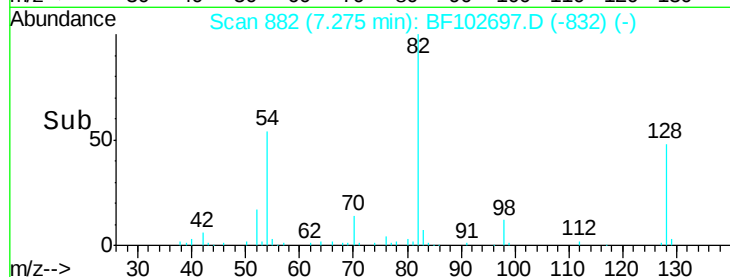
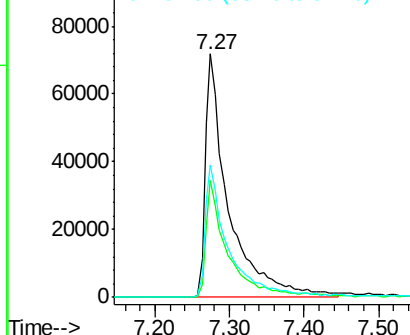
Tot Ion	Ratio	Resp	Lower	Upper
82	100	154980		
128	48.2		36.1	54.1
54	54.3		41.4	62.2

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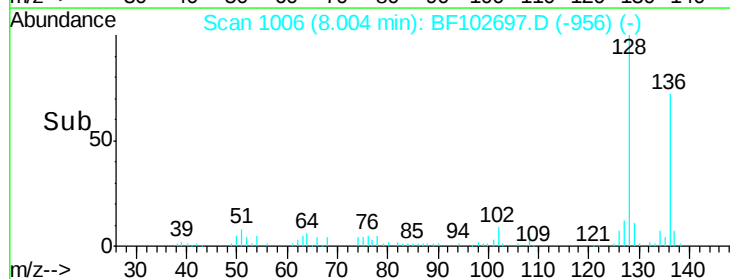
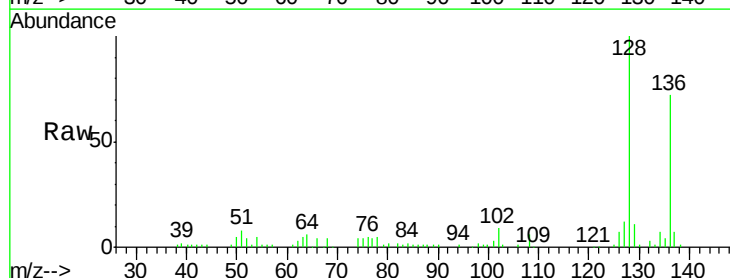
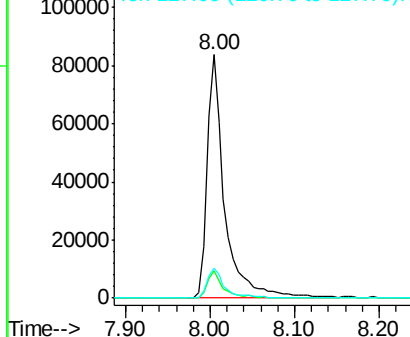
Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF1

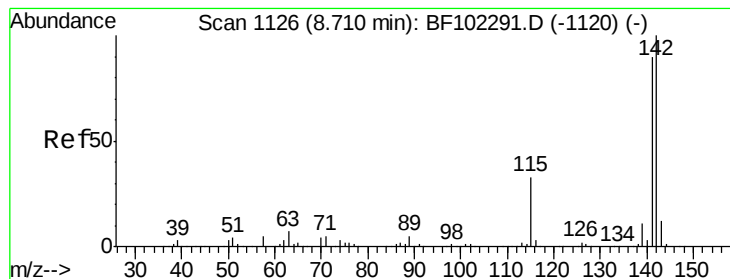


#31
Naphthalene
Concen: 3.711 ng
RT: 8.00 min Scan# 1006
Delta R.T. -0.01 min
Lab File: BF102697.D
Acq: 1 Feb 2018 20:15

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	121423		
129	11.0		8.8	13.2
127	12.1		10.9	16.3

Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E





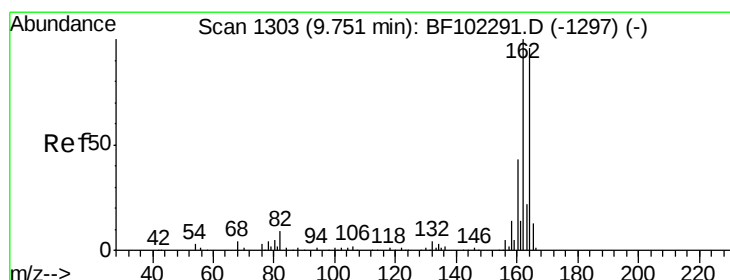
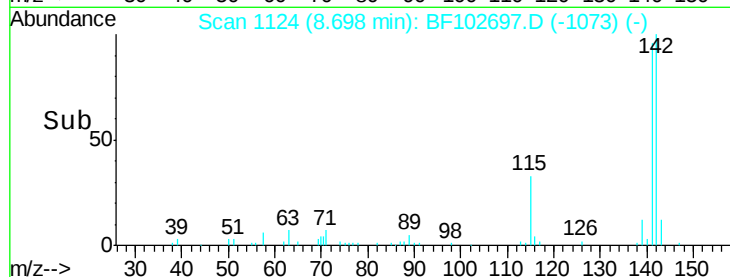
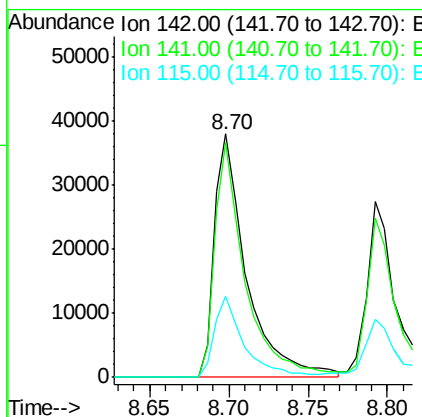
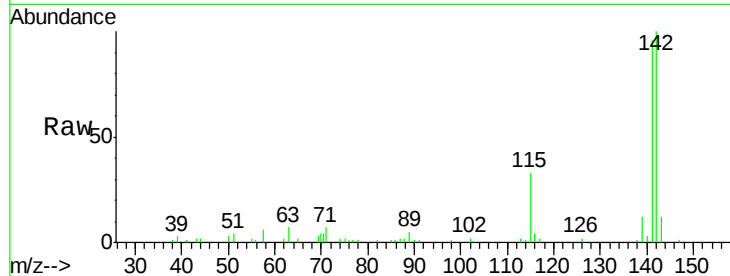
#37
2-Methylnaphthalene
Concen: 2.443 ng
RT: 8.70 min Scan# 1124
Delta R.T. 0.00 min
Lab File: BF102697.D
Acq: 1 Feb 2018 20:15

Instrument :
BNA_F
ClientSampleId :
TP-04(CB#3-LINE-BOTTOM@4)

Tot Ion	Ratio	Lower	Upper
142	100		
141	96.4	70.8	106.2
115	33.2	26.1	39.1

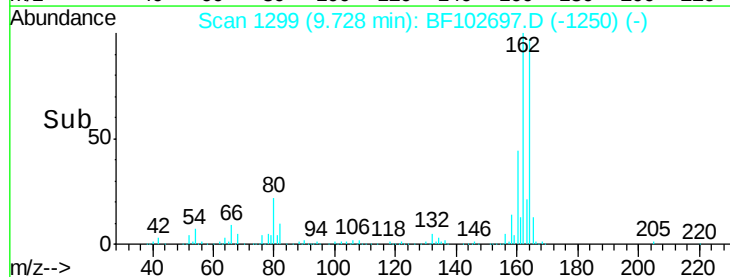
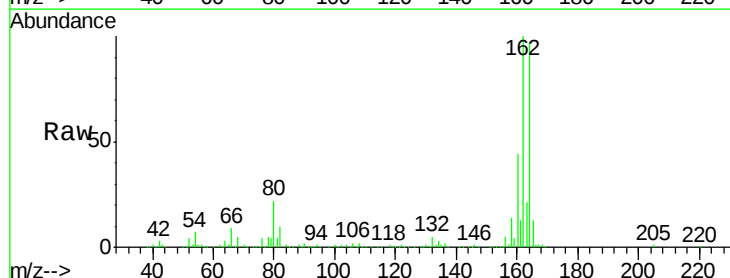
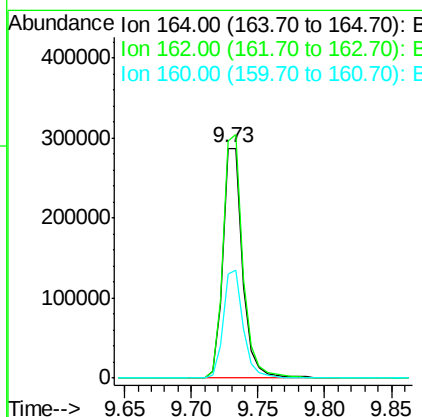
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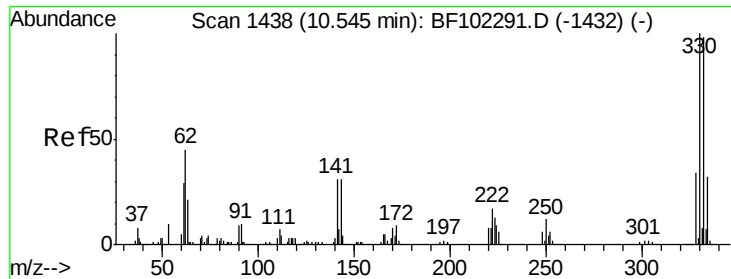
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#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.73 min Scan# 1299
Delta R.T. -0.01 min
Lab File: BF102697.D
Acq: 1 Feb 2018 20:15

Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.4	86.1	129.1
160	45.1	38.3	57.5





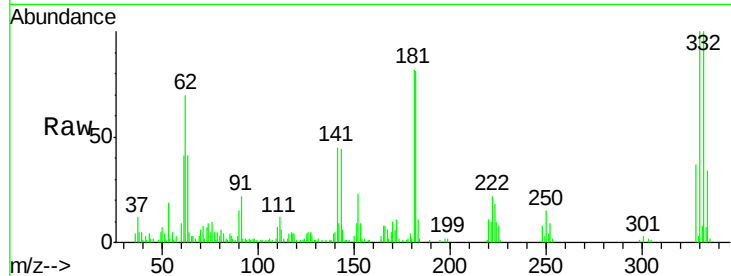
#41
 2,4,6-Tribromophenol
 Concen: 18.626 ng
 RT: 10.53 min Scan# 1435
 Delta R.T. -0.01 min
 Lab File: BF102697.D
 Acq: 1 Feb 2018 20:15

Instrument :
 BNA_F
 ClientSampleId :
 TP-04(CB#3-LINE-BOTTOM@4)

Tot Ion	Ratio	Resp	Lower	Upper
330	100			
332	98.5	77.0	115.6	
141	47.5	29.9	44.9	

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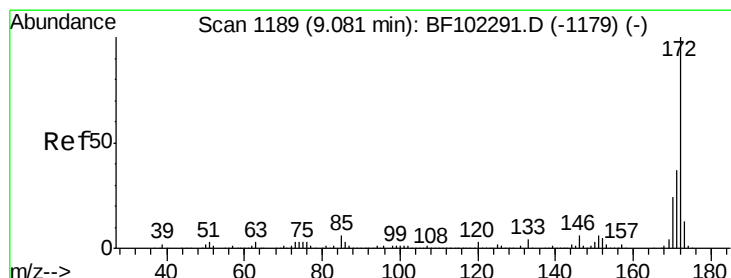
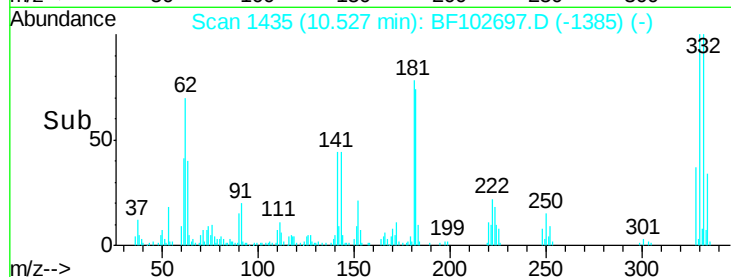
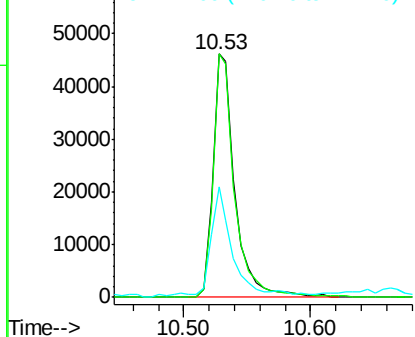


Abundance

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: 16.192 ng
 RT: 9.05 min Scan# 1184
 Delta R.T. -0.01 min
 Lab File: BF102697.D
 Acq: 1 Feb 2018 20:15

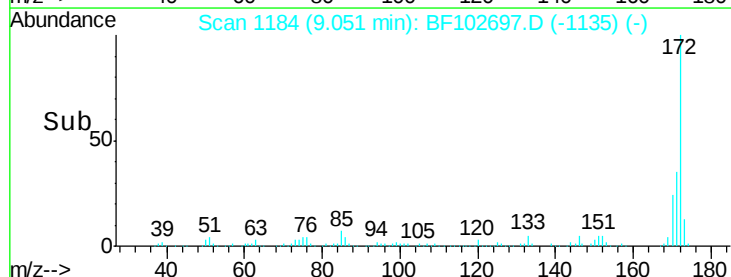
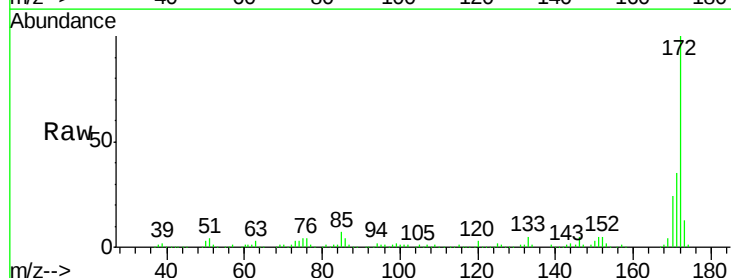
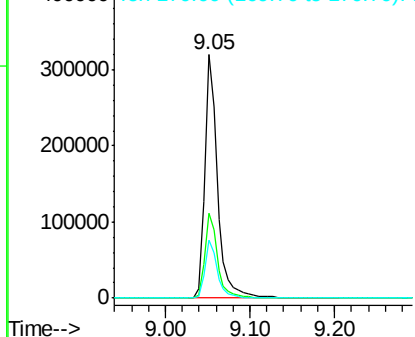
Tgt Ion	Ratio	Resp	Lower	Upper
172	100			
171	34.9	29.7	44.5	
170	23.8	19.6	29.4	

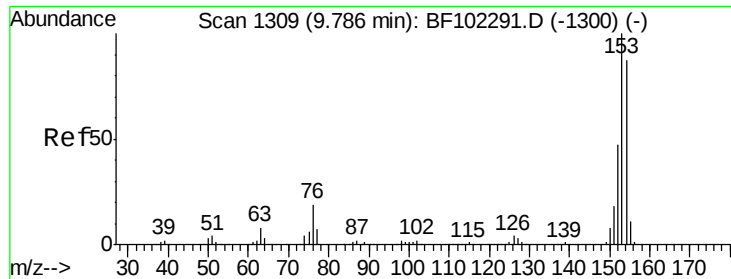
Abundance

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





#51

Acenaphthene

Concen: 13.195 ng

RT: 9.76 min Scan# 1305

Delta R.T. -0.01 min

Lab File: BF102697.D

Acq: 1 Feb 2018 20:15

Instrument :

BNA_F

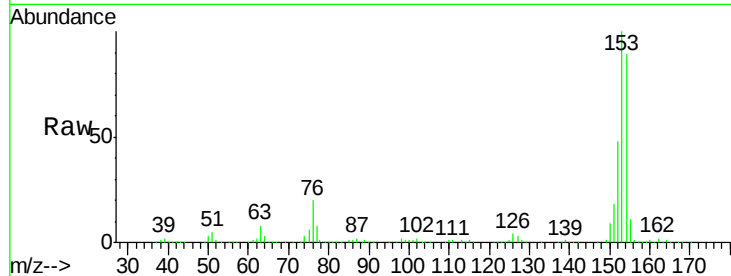
ClientSampleId :

TP-04(CB#3-LINE-BOTTOM@4)

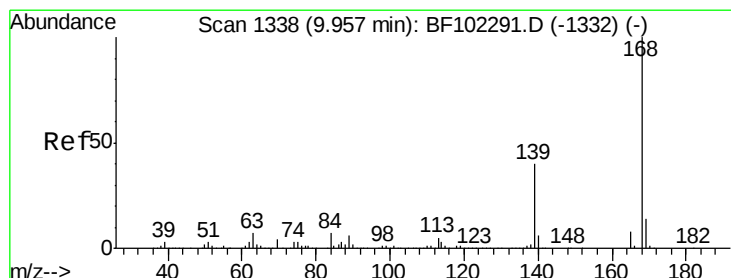
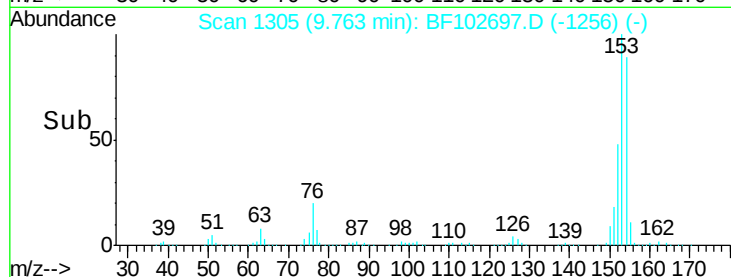
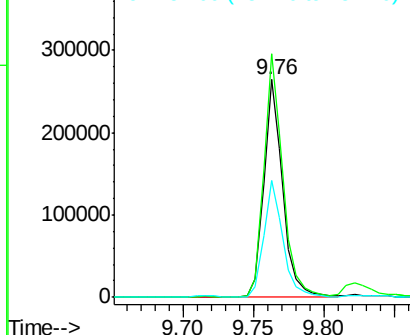
Tot Ion:	154	Resp:	252475
Ion Ratio	Lower	Upper	
154	100		
153	112.0	91.2	136.8
152	53.9	43.8	65.8

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Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E



#54

Dibenzofuran

Concen: 9.876 ng

RT: 9.94 min Scan# 1335

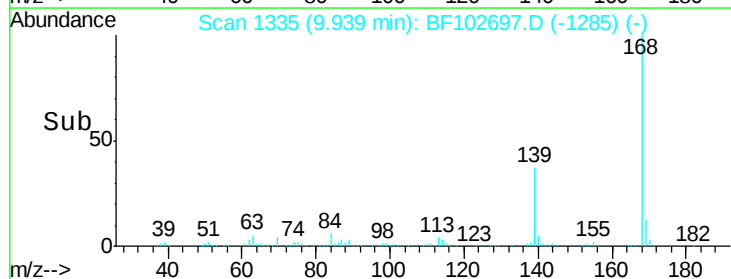
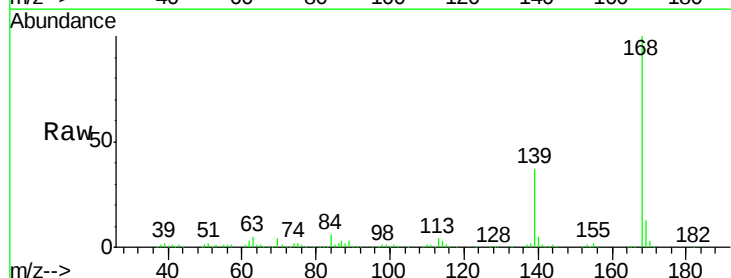
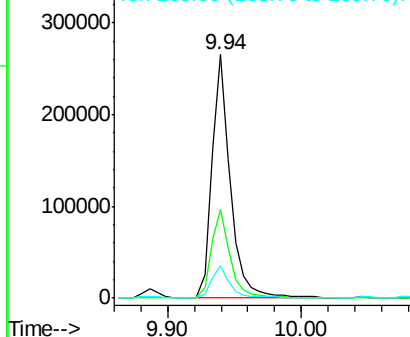
Delta R.T. -0.01 min

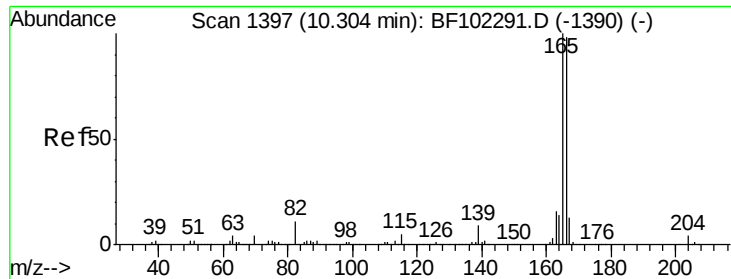
Lab File: BF102697.D

Acq: 1 Feb 2018 20:15

Tgt Ion:	168	Resp:	255740
Ion Ratio	Lower	Upper	
168	100		
139	36.7	30.1	45.1
169	13.4	10.9	16.3

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





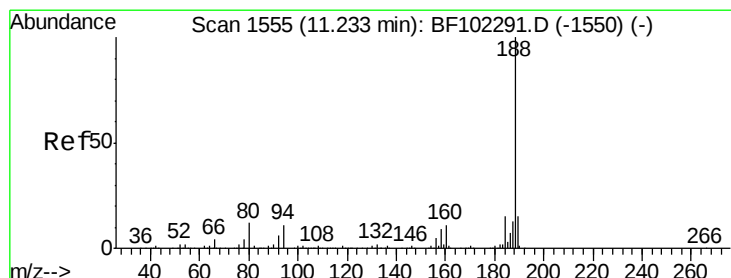
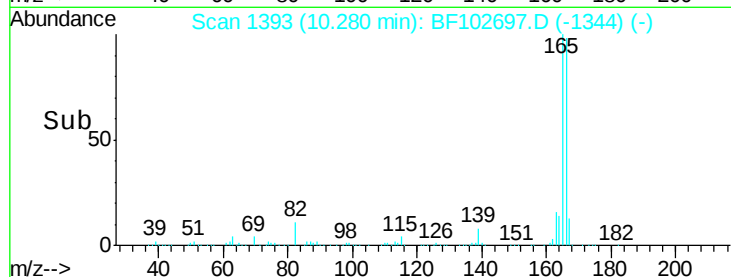
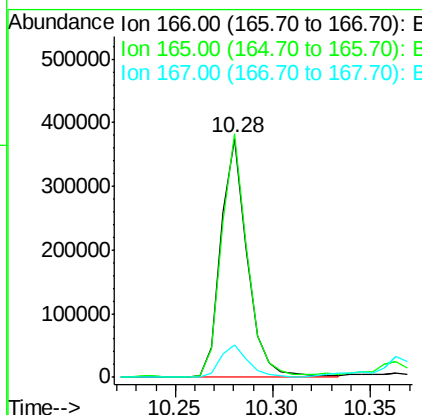
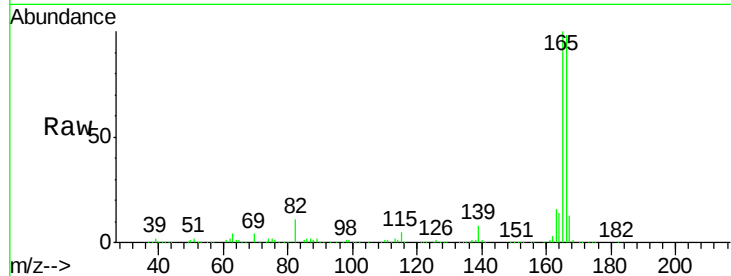
#57
Fluorene
 Concen: 17.124 ng
 RT: 10.28 min Scan# 1393
 Delta R.T. -0.01 min
 Lab File: BF102697.D
 Acq: 1 Feb 2018 20:15

Instrument :
 BNA_F
 ClientSampleId :
 TP-04(CB#3-LINE-BOTTOM@4)

Tot Ion	Ratio	Resp	Lower	Upper
166	100			
165	102.0	79.8	119.8	
167	13.6	10.6	16.0	

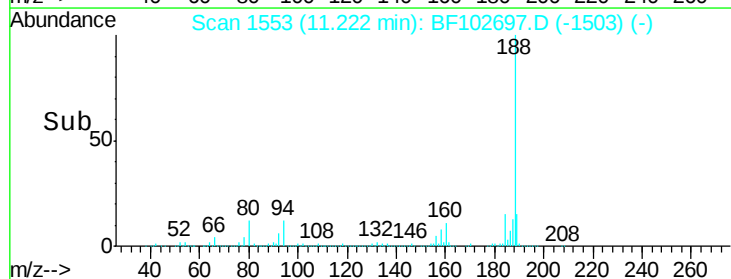
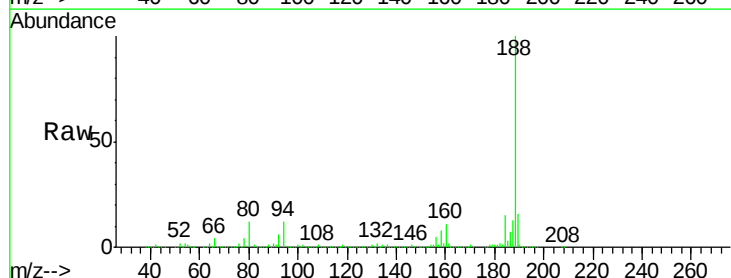
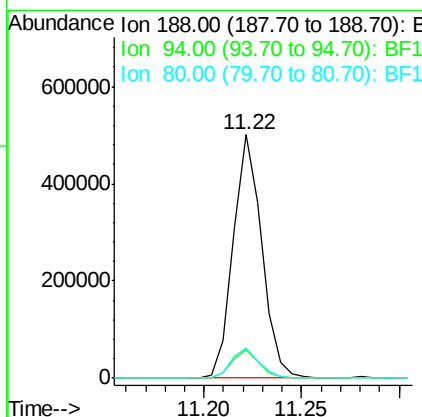
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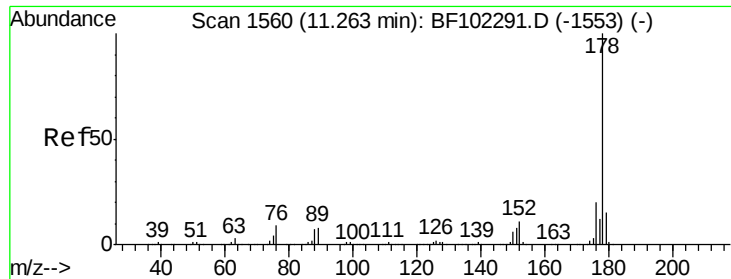
Sohil
 2/2/2018 9:52:53 AM



#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.22 min Scan# 1553
 Delta R.T. -0.01 min
 Lab File: BF102697.D
 Acq: 1 Feb 2018 20:15

Tgt Ion	Ratio	Resp	Lower	Upper
188	100			
94	11.7	8.5	12.7	
80	12.1	9.2	13.8	





#70

Phenanthrene

Concen: 74.099 ng

RT: 11.25 min Scan# 1558

Delta R.T. 0.00 min

Lab File: BF102697.D

Acq: 1 Feb 2018 20:15

Instrument :

BNA_F

ClientSampleId :

TP-04(CB#3-LINE-BOTTOM@4)

Tot Ion:178 Resp: 2196596

Ion Ratio Lower Upper

178 100

176 20.5 15.8 23.8

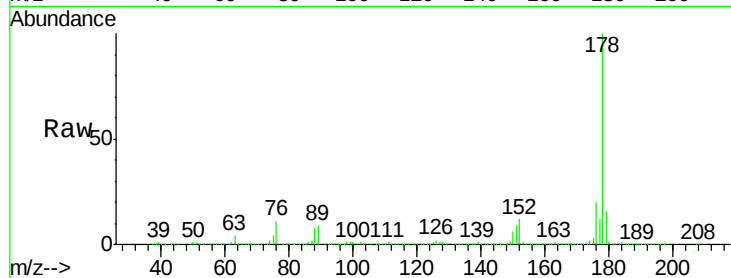
179 16.0 13.0 19.6

Manual Integrations

APPROVED

Sohil

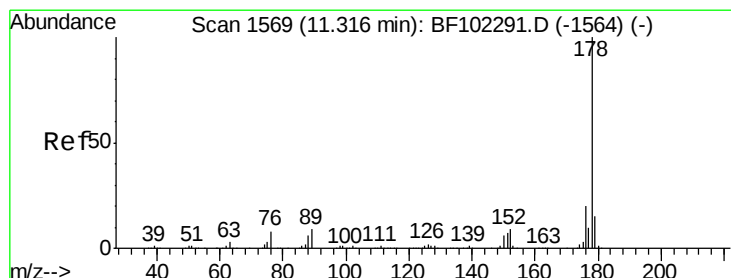
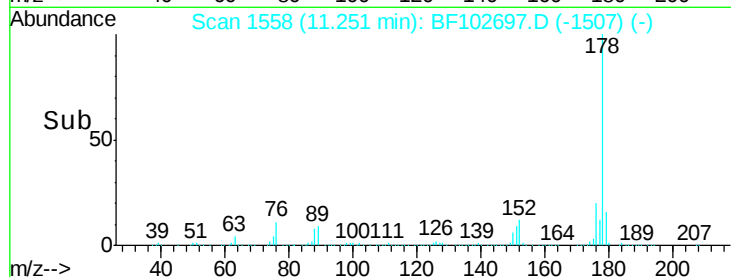
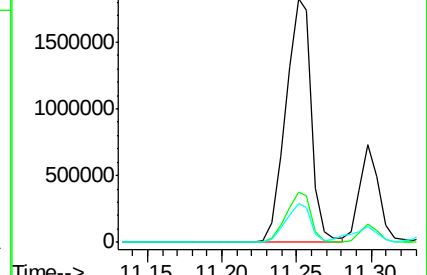
2/2/2018 9:52:53 AM



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: 20.865 ng

RT: 11.30 min Scan# 1566

Delta R.T. -0.01 min

Lab File: BF102697.D

Acq: 1 Feb 2018 20:15

Tgt Ion:178 Resp: 631315

Ion Ratio Lower Upper

178 100

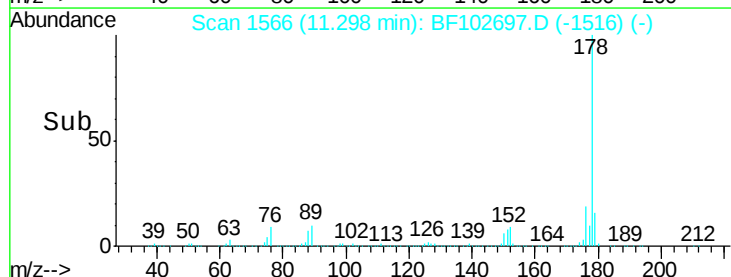
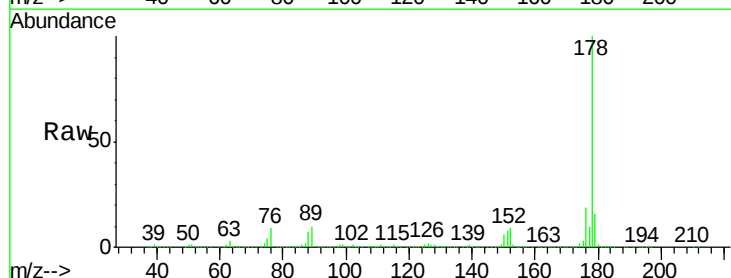
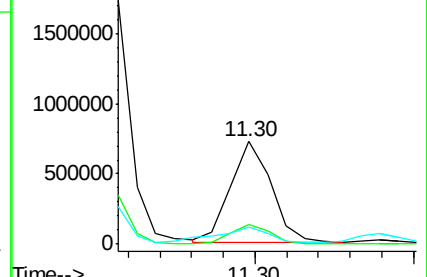
176 19.1 15.4 23.2

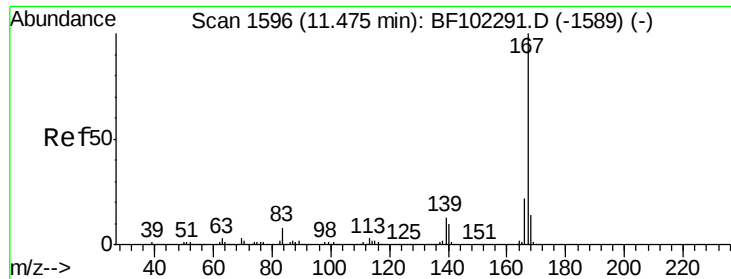
179 16.3 12.6 19.0

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





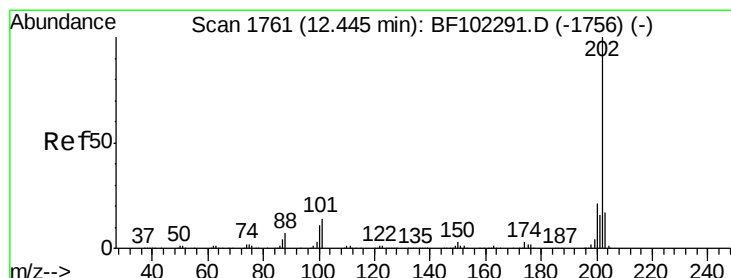
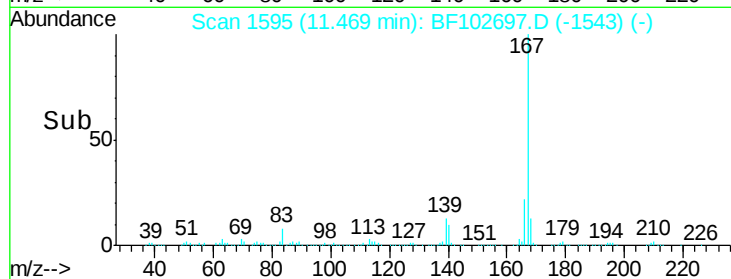
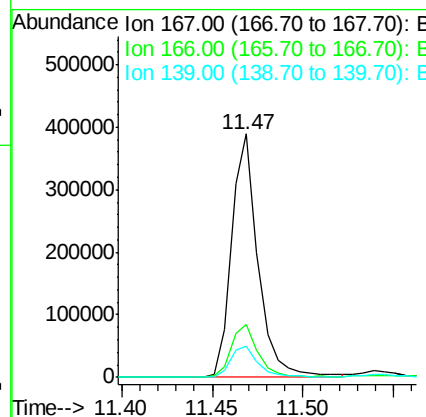
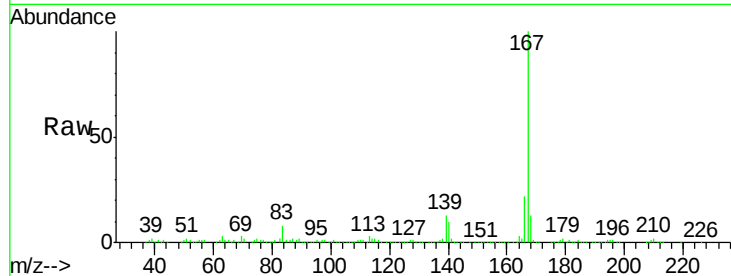
#72
 Carbazole
 Concen: 13.316 ng
 RT: 11.47 min Scan# 1595
 Delta R.T. 0.01 min
 Lab File: BF102697.D
 Acq: 1 Feb 2018 20:15

Instrument :
 BNA_F
 ClientSampleId :
 TP-04(CB#3-LINE-BOTTOM@4)

Tot Ion	Ratio	Lower	Upper
167	100		
166	21.8	17.6	26.4
139	13.0	10.9	16.3

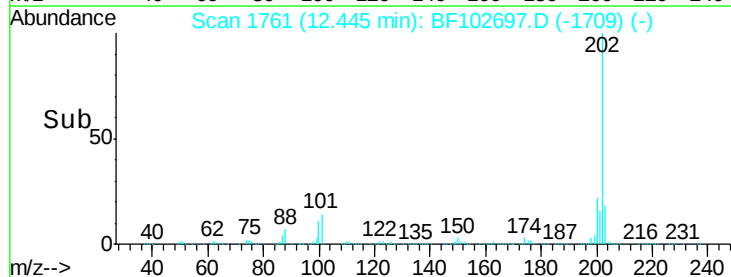
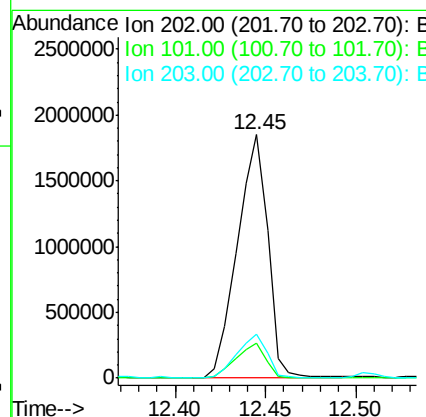
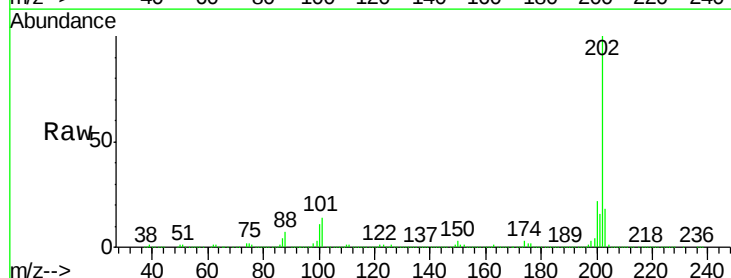
Manual Integrations
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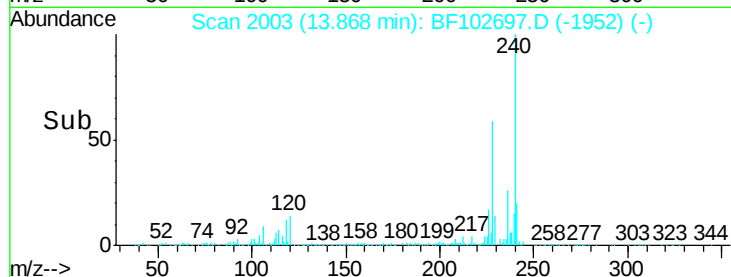
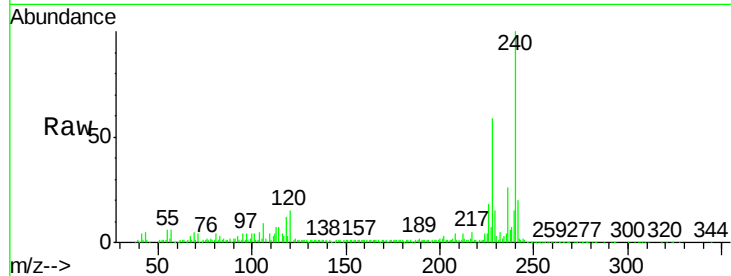
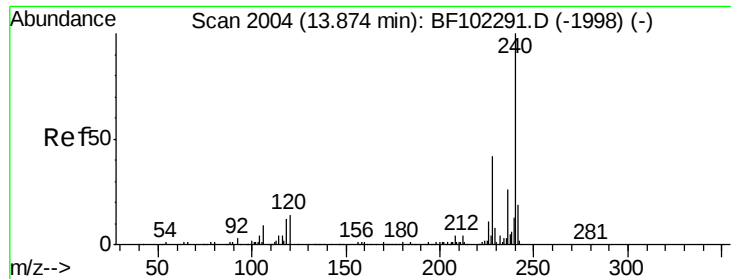
Sohil
 2/2/2018 9:52:53 AM



#74
 Fluoranthene
 Concen: 71.446 ng
 RT: 12.45 min Scan# 1761
 Delta R.T. 0.01 min
 Lab File: BF102697.D
 Acq: 1 Feb 2018 20:15

Tgt Ion	Ratio	Lower	Upper
202	100		
101	14.2	0.0	34.1
203	18.1	0.0	38.1





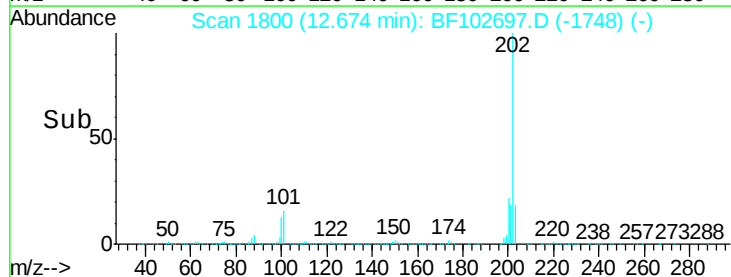
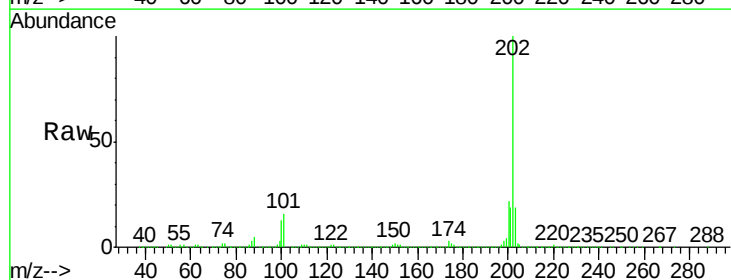
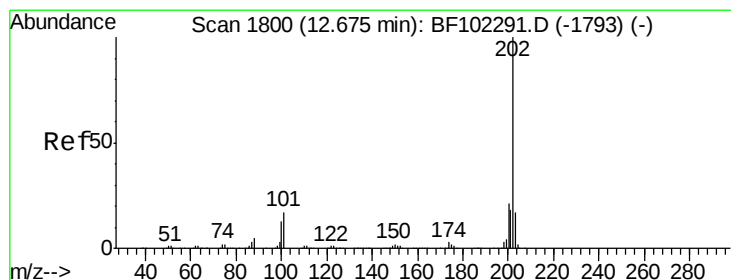
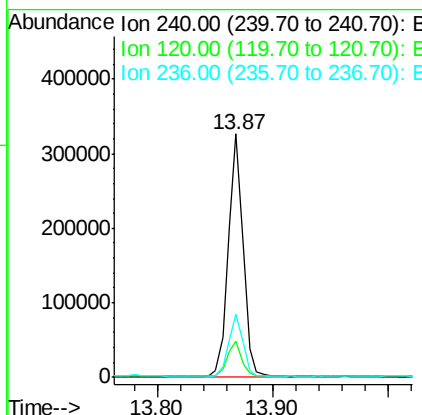
#75
Chrysene-d12
Concen: 20.000 ng
RT: 13.87 min Scan# 2003
Delta R.T. 0.00 min
Lab File: BF102697.D
Acq: 1 Feb 2018 20:15

Instrument :
BNA_F
ClientSampleId :
TP-04(CB#3-LINE-BOTTOM@4)

Tot Ion	Ratio	Resp	Lower	Upper
240	100			
120	14.7	9.5	14.3	
236	25.8	20.7	31.1	

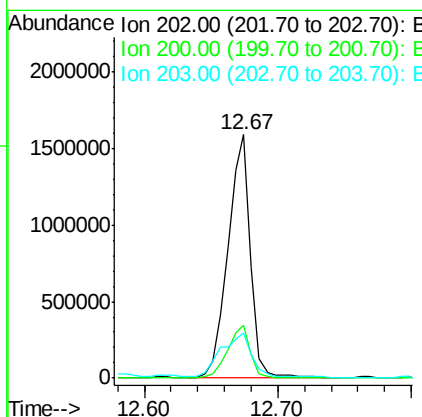
Manual Integrations
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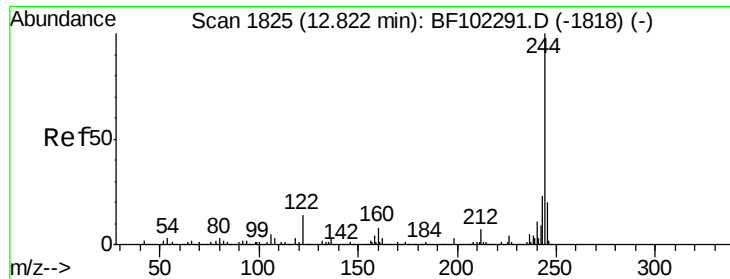
Sohil
2/2/2018 9:52:53 AM



#77
Pyrene
Concen: 83.577 ng
RT: 12.67 min Scan# 1800
Delta R.T. 0.01 min
Lab File: BF102697.D
Acq: 1 Feb 2018 20:15

Tgt Ion	Ratio	Resp	Lower	Upper
202	100			
200	21.9	17.4	26.2	
203	18.6	14.3	21.5	





#78

Terphenyl-d14

Concen: 21.653 ng

RT: 12.80 min Scan# 1822

Delta R.T. -0.01 min

Lab File: BF102697.D

Acq: 1 Feb 2018 20:15

Instrument :

BNA_F

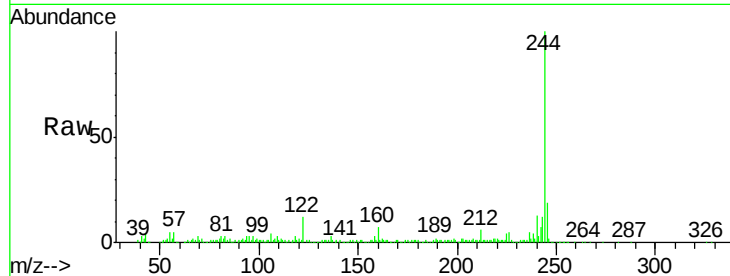
ClientSampleId :

TP-04(CB#3-LINE-BOTTOM@4)

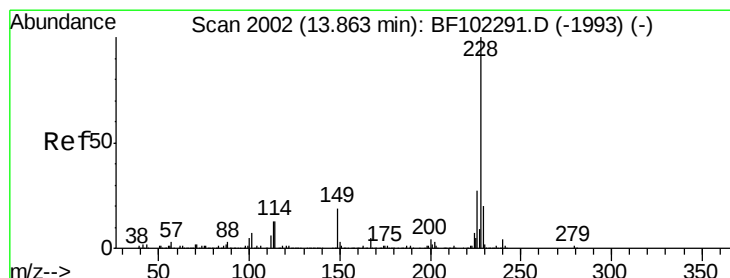
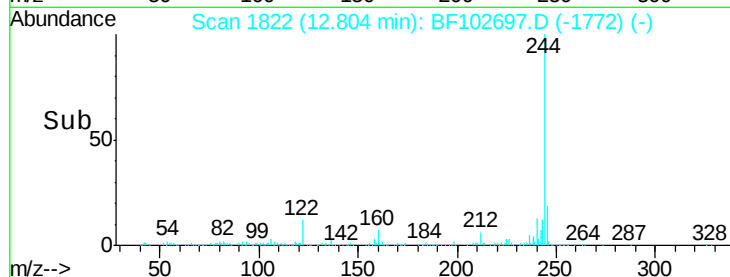
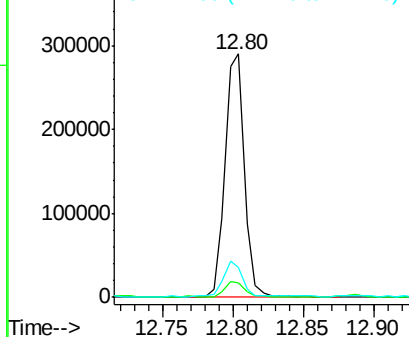
Tot Ion:	244	Resp:	278377
Ion Ratio	Lower	Upper	
244	100		
212	6.2	5.4	8.0
122	12.5	11.0	16.4

Manual Integrations
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Abundance Ion 244.00 (243.70 to 244.70): E
Ion 212.00 (211.70 to 212.70): E
Ion 122.00 (121.70 to 122.70): E



#80

Benzo(a)anthracene

Concen: 46.321 ng

RT: 13.86 min Scan# 2001

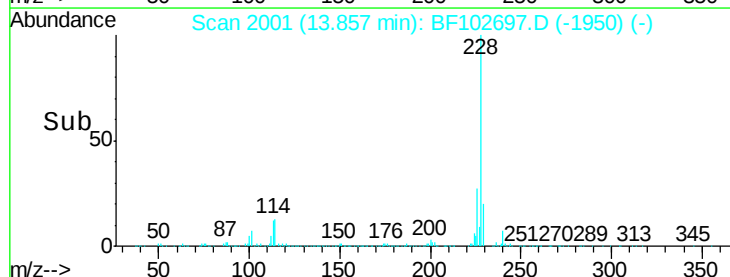
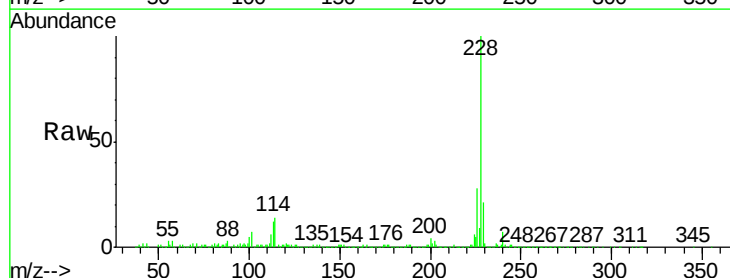
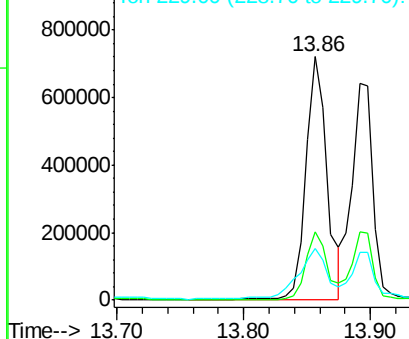
Delta R.T. 0.00 min

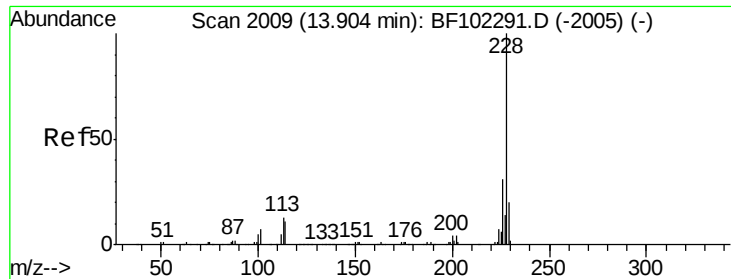
Lab File: BF102697.D

Acq: 1 Feb 2018 20:15

Tgt Ion:	228	Resp:	826531
Ion Ratio	Lower	Upper	
228	100		
226	27.8	22.6	33.8
229	21.2	15.8	23.6

Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E





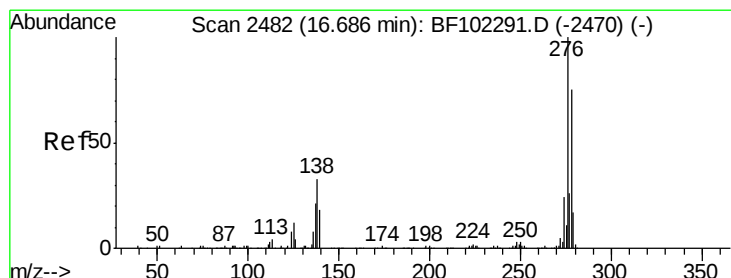
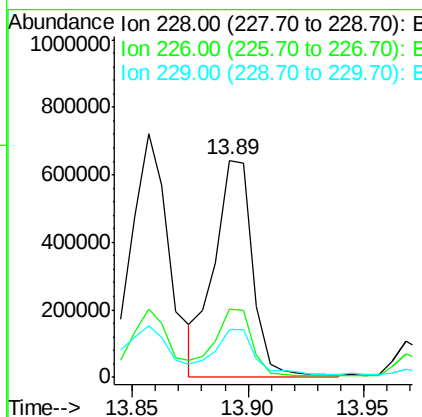
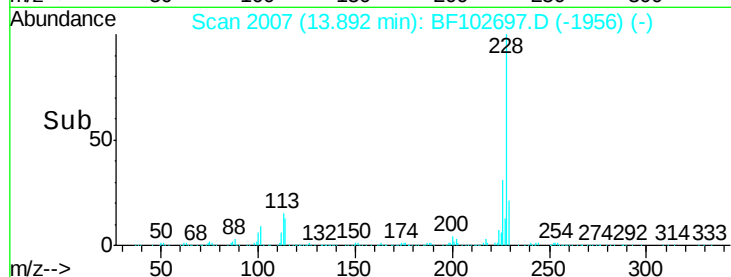
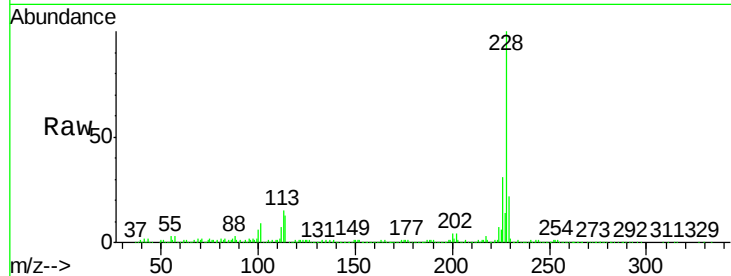
#82
Chrysene
Concen: 40.691 ng
RT: 13.89 min Scan# 2007
Delta R.T. 0.00 min
Lab File: BF102697.D
Acq: 1 Feb 2018 20:15

Instrument :
BNA_F
ClientSampleId :
TP-04(CB#3-LINE-BOTTOM@4)

Tot Ion:	228	Resp:	737313
Ion Ratio	Lower	Upper	
228	100		
226	31.3	25.0	37.6
229	22.2	16.2	24.4

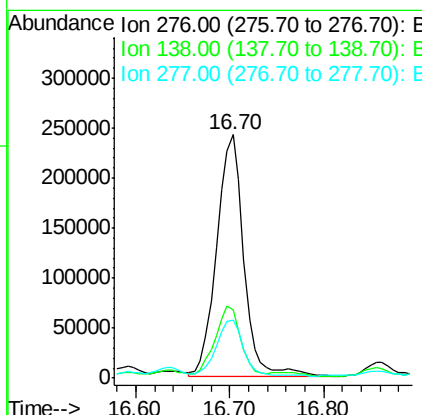
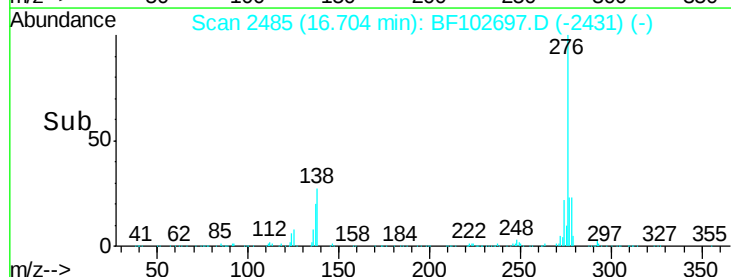
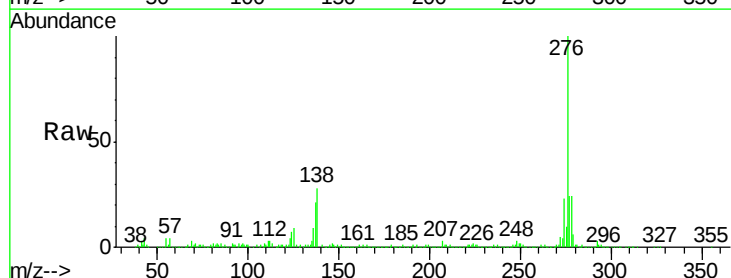
Manual Integrations
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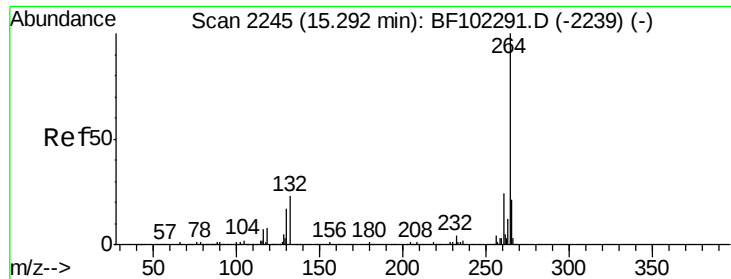
Sohil
2/2/2018 9:52:53 AM



#85
Indeno(1,2,3-cd)pyrene
Concen: 32.697 ng
RT: 16.70 min Scan# 2485
Delta R.T. 0.02 min
Lab File: BF102697.D
Acq: 1 Feb 2018 20:15

Tgt Ion:	276	Resp:	489295
Ion Ratio	Lower	Upper	
276	100		
138	27.6	25.0	37.6
277	21.7	20.1	30.1





#86

Pervlene-d12

Concen: 20.000 ng

RT: 15.30 min Scan# 2246

Delta R.T. 0.01 min

Lab File: BF102697.D

Acq: 1 Feb 2018 20:15

Instrument :

BNA_F

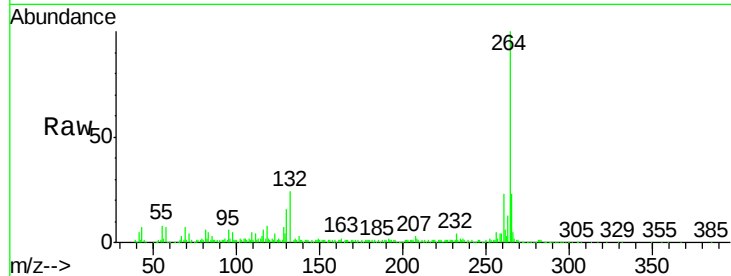
ClientSampleId :

TP-04(CB#3-LINE-BOTTOM@4)

Tot Ion:	264	Resp:	280282
Ion Ratio		Lower	Upper
264	100		
260	22.9	19.2	28.8
265	22.7	17.5	26.3

Manual Integrations
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Sohil
2/2/2018 9:52:53 AM

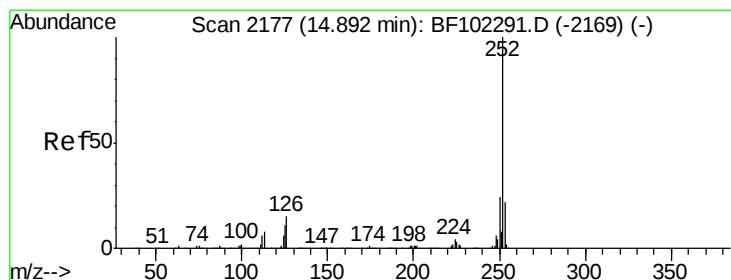
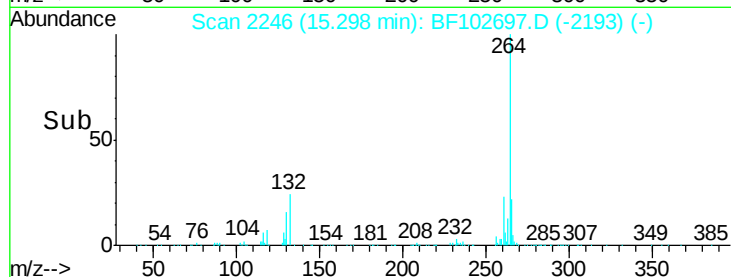
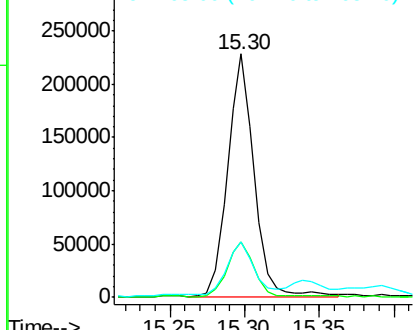


Abundance

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: 50.662 ng m

RT: 14.89 min Scan# 2177

Delta R.T. 0.01 min

Lab File: BF102697.D

Acq: 1 Feb 2018 20:15

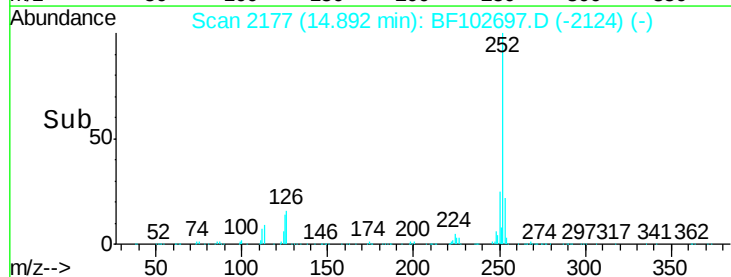
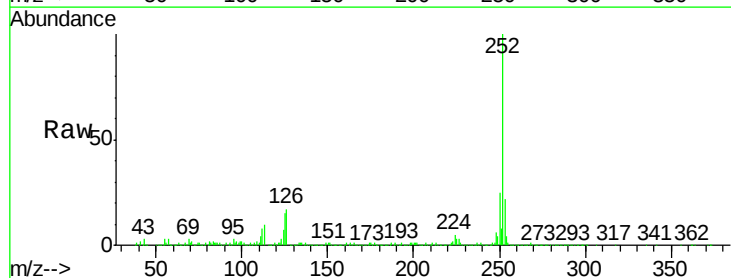
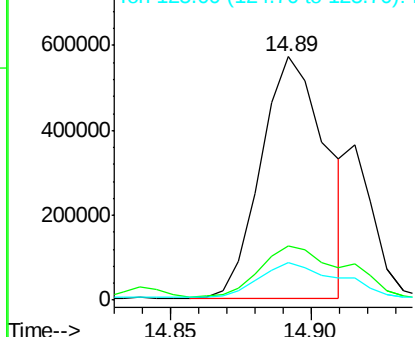
Tgt Ion:	252	Resp:	920349
Ion Ratio		Lower	Upper
252	100		
253	22.4	17.0	25.6
125	15.2	9.0	13.6#

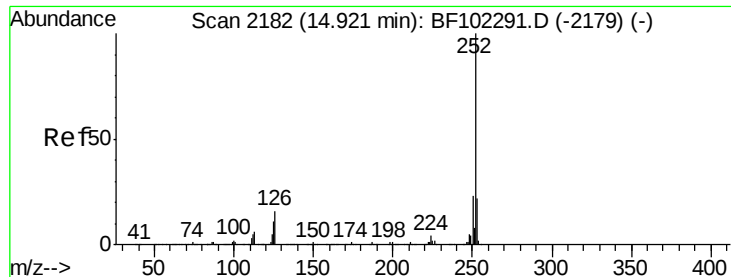
Abundance

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: 14.561 ng/mL

RT: 14.92 min Scan# 2181

Delta R.T. 0.01 min

Lab File: BF102697.D

Acq: 1 Feb 2018 20:15

Instrument :

BNA_F

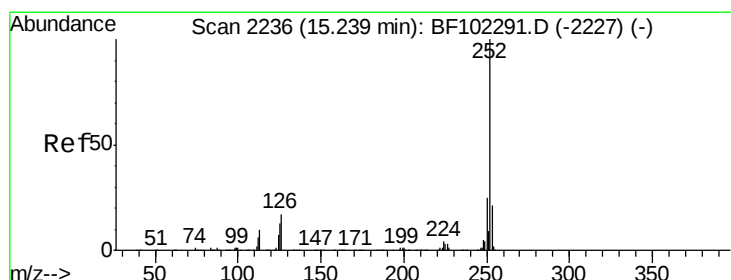
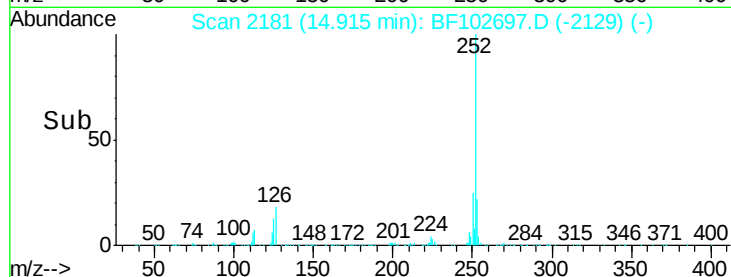
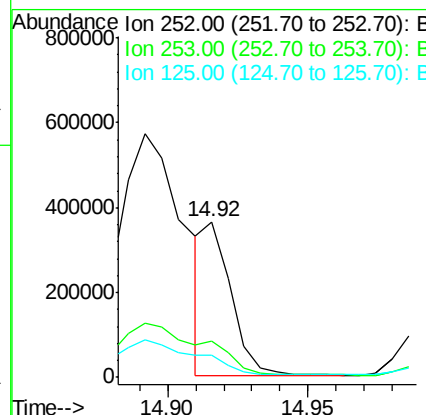
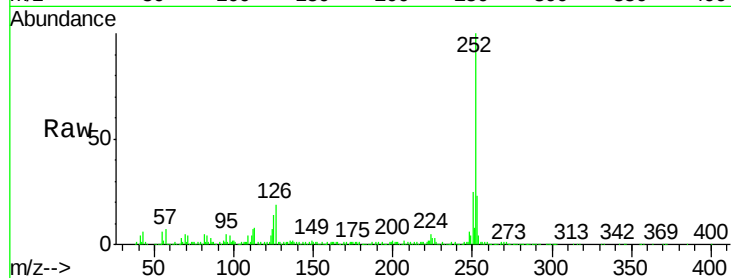
ClientSampleId :

TP-04(CB#3-LINE-BOTTOM@4)

Tot Ion:	252	Resp:	249917
Ion Ratio	Lower	Upper	
252	100		
253	22.9	17.9	26.9
125	14.4	10.2	15.2

Manual Integrations
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Sohil
2/2/2018 9:52:53 AM



#89

Benzo(a)pyrene

Concen: 38.866 ng/mL

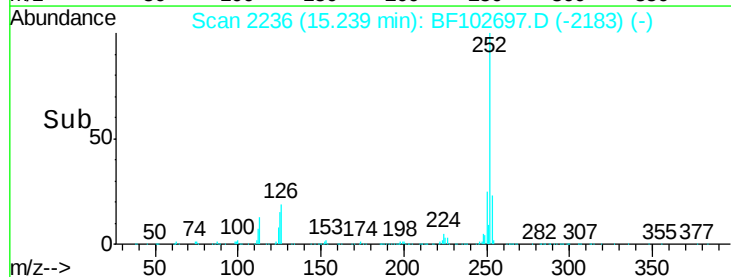
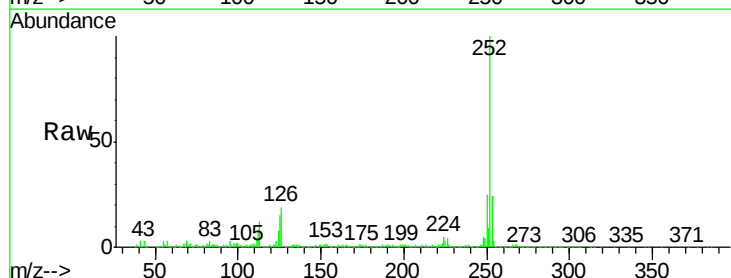
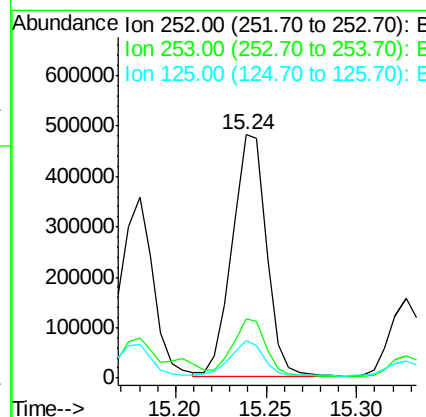
RT: 15.24 min Scan# 2236

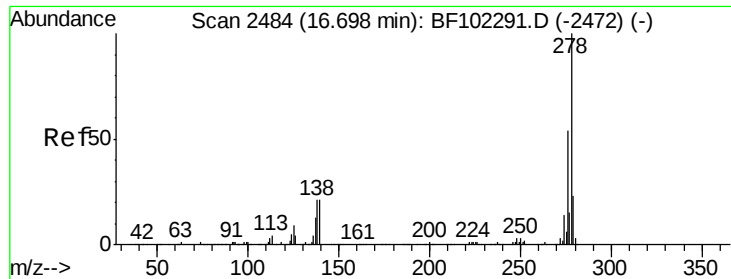
Delta R.T. 0.01 min

Lab File: BF102697.D

Acq: 1 Feb 2018 20:15

Tgt Ion:	252	Resp:	636793
Ion Ratio	Lower	Upper	
252	100		
253	24.2	17.1	25.7
125	15.4	9.8	14.6





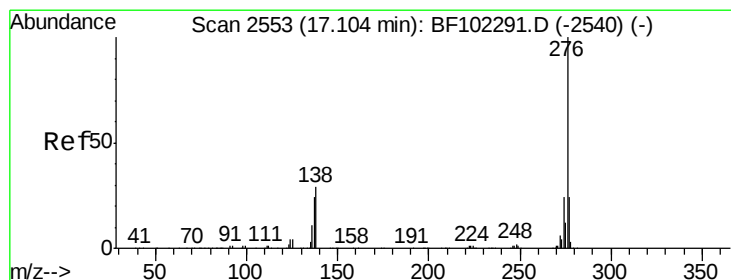
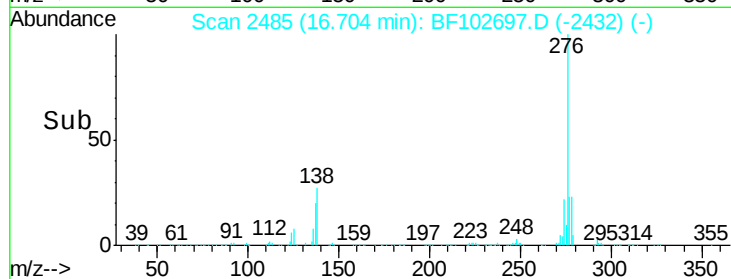
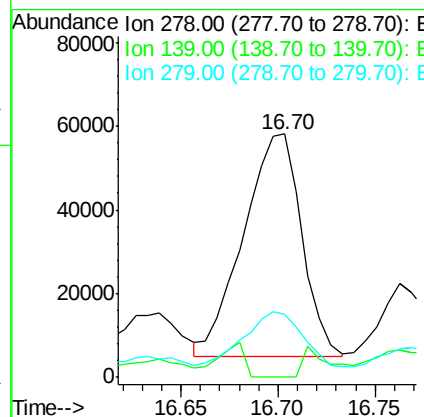
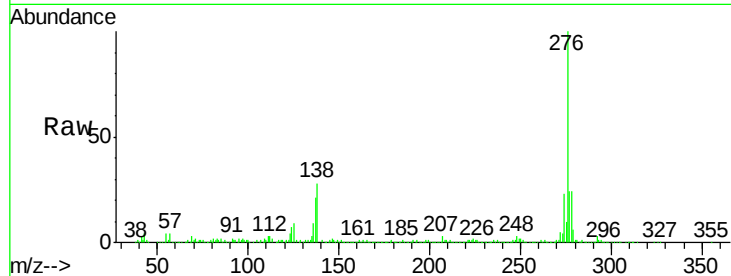
#90
Dibenzo(a,h)anthracene
Concen: 8.389 ng m
RT: 16.70 min Scan# 2485
Delta R.T. 0.01 min
Lab File: BF102697.D
Acq: 1 Feb 2018 20:15

Instrument :
BNA_F
ClientSampleId :
TP-04(CB#3-LINE-BOTTOM@4)

Tot Ion	Ratio	Lower	Upper
278	100		
139	0.0	15.9	23.9#
279	26.1	19.0	28.4

Manual Integrations
APPROVED

Sohil
2/2/2018 9:52:53 AM



#91
Benzo(g,h,i)perylene
Concen: 36.639 ng
RT: 17.13 min Scan# 2557
Delta R.T. 0.02 min
Lab File: BF102697.D
Acq: 1 Feb 2018 20:15

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.3	17.9	26.9
138	29.6	21.8	32.8

