

Data Path : Z:\HPCHEM1\BNA F\DATA\BF011918\
 Data File : BF102222.D
 Acq On : 19 Jan 2018 15:06
 Operator : SJ/JU
 Sample : J1200-04DL 100X
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 A2 SB74 BOT-N 10DL

Manual Integrations
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 1/22/2018 5:24:16 PM

Quant Time: Jan 19 15:49:18 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF010918.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jan 19 13:31:35 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.72	152	137315	20.00	ng	0.00
21) Naphthalene-d8	8.00	136	563194	20.00	ng	0.00
38) Acenaphthene-d10	9.76	164	250073	20.00	ng	0.00
63) Phenanthrene-d10	11.24	188	398132	20.00	ng	0.00
75) Chrysene-d12	13.87	240	277927	20.00	ng	0.00
86) Perylene-d12	15.29	264	237869	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.32	112	10120	1.04	ng	-0.01
7) Phenol-d6	6.35	99	12700	1.09	ng	-0.02
23) Nitrobenzene-d5	7.28	82	7071	0.74	ng	-0.02
41) 2,4,6-Tribromophenol	10.55	330	2048	0.94	ng	0.00
44) 2-Fluorobiphenyl	9.07	172	10840	0.68	ng	-0.01
78) Terphenyl-d14	12.82	244	13357	1.00	ng	-0.01

Target Compounds				Qvalue		
31) Naphthalene	8.03	128	940809	33.431	ng	100
37) 2-Methylnaphthalene	8.72	142	65631	3.543	ng	99
48) Acenaphthylene	9.62	152	80746	2.968	ng	99
51) Acenaphthene	9.79	154	77965	4.722	ng	99
54) Dibenzofuran	9.96	168	102057	4.504	ng	99
57) Fluorene	10.30	166	126910	8.102	ng	97
70) Phenanthrene	11.26	178	537769	23.124	ng	99
71) Anthracene	11.32	178	168400	7.140	ng	98
72) Carbazole	11.47	167	51225	2.210	ng	99
74) Fluoranthene	12.45	202	384644	16.811	ng	97
77) Pyrene	12.67	202	280240	11.407	ng	98
80) Benzo(a)anthracene	13.86	228	125885m	7.099	ng	
82) Chrysene	13.90	228	87636	4.740	ng	99
85) Indeno(1,2,3-cd)pyrene	16.66	276	35138	2.611	ng	93
87) Benzo(b)fluoranthene	14.89	252	109398m	7.053	ng	
88) Benzo(k)fluoranthene	14.91	252	33943m	2.269	ng	
89) Benzo(a)pyrene	15.23	252	76406	5.475	ng	98
91) Benzo(g,h,i)perylene	17.08	276	31233	2.784	ng	96

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

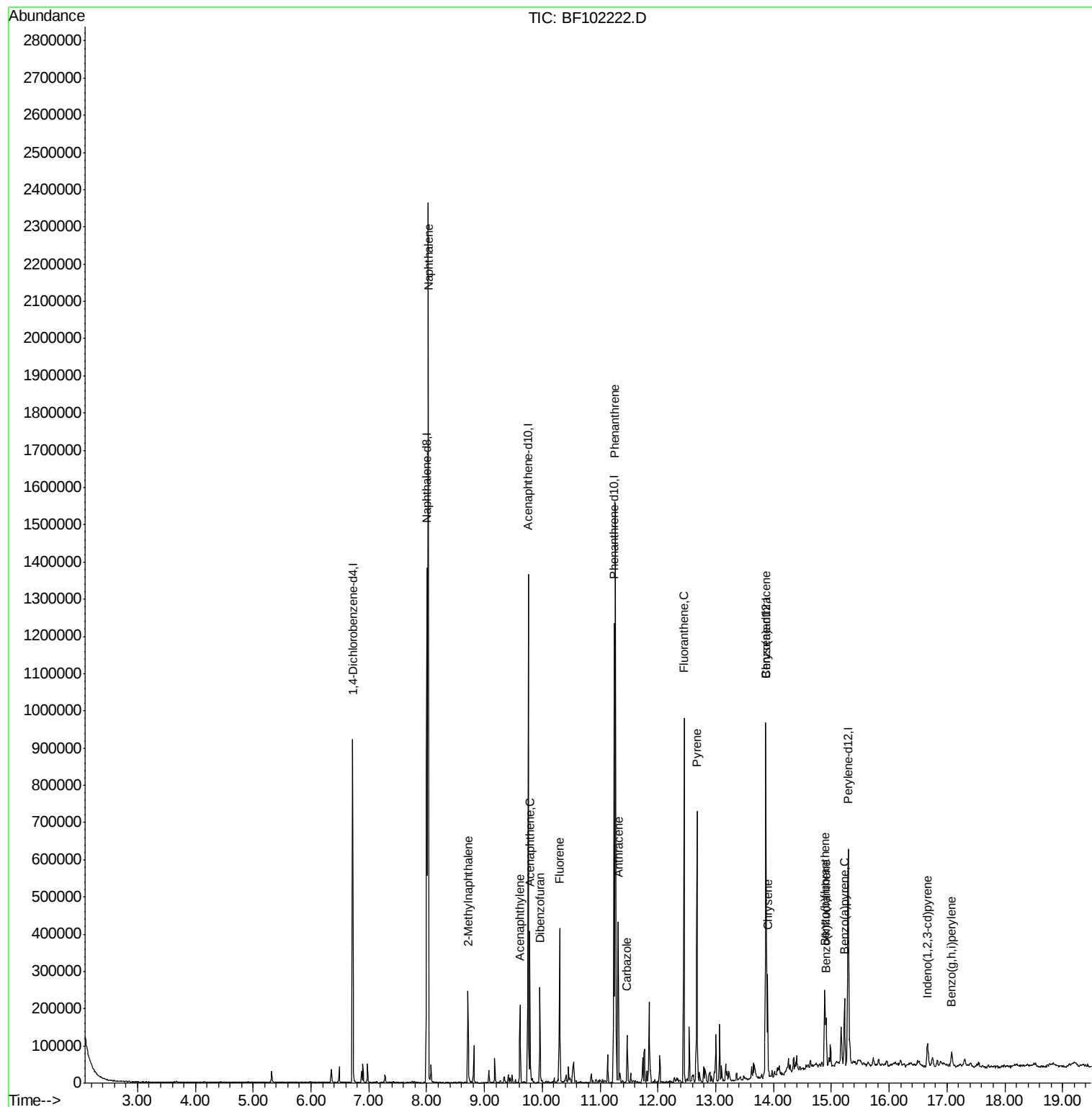
Data Path : Z:\HPCHEM1\BNA F\DATA\BF011918\
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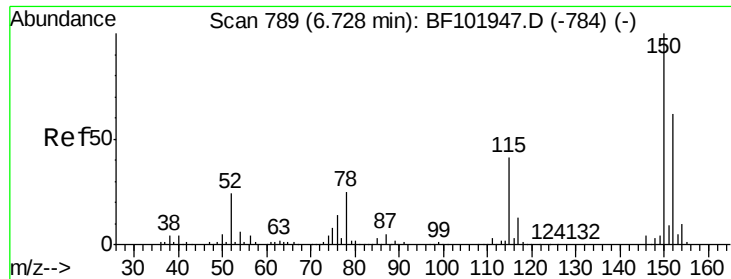
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#1

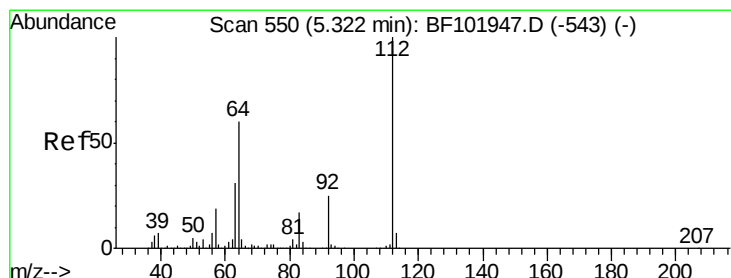
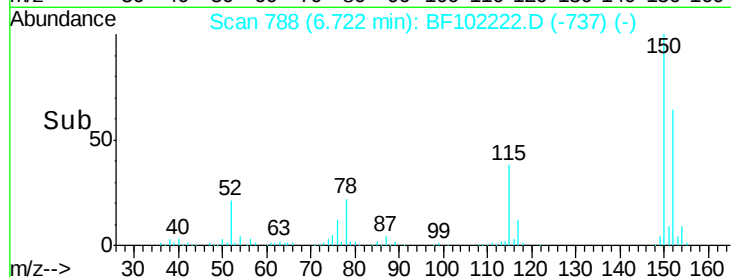
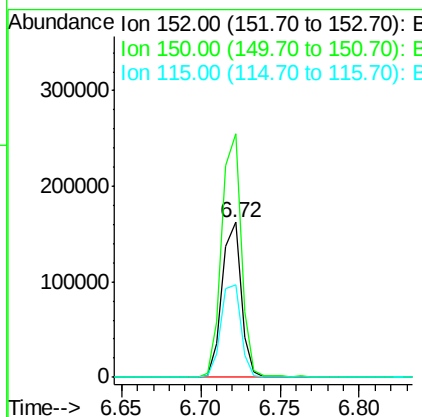
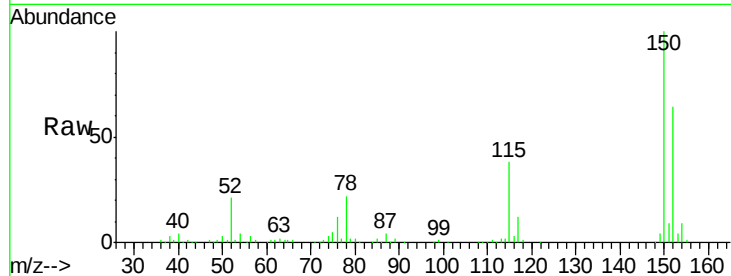
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.72 min Scan# 788
Delta R.T. 0.00 min
Lab File: BF102222.D
Acq: 19 Jan 2018 15:06

Instrument :
BNA_F
ClientSampleId :
A2 SB74 BOT-N 10DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	156.8	124.6	186.8
115	59.5	50.1	75.1

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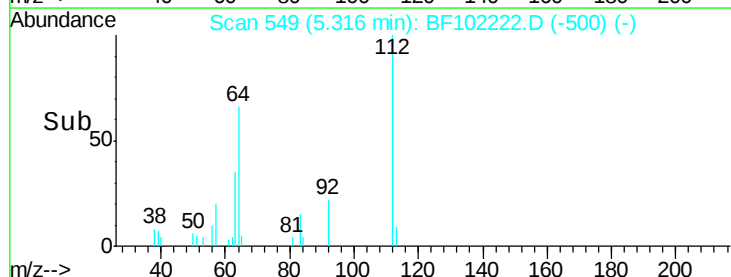
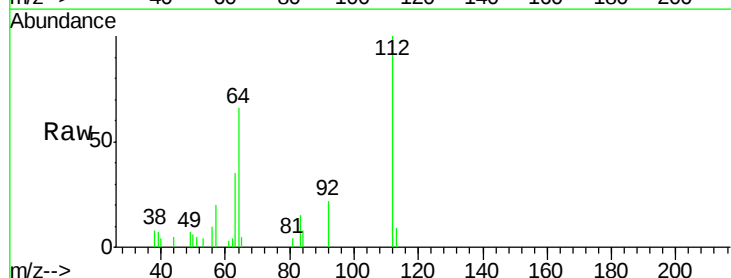
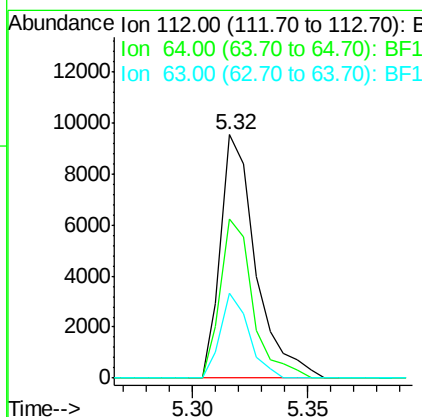
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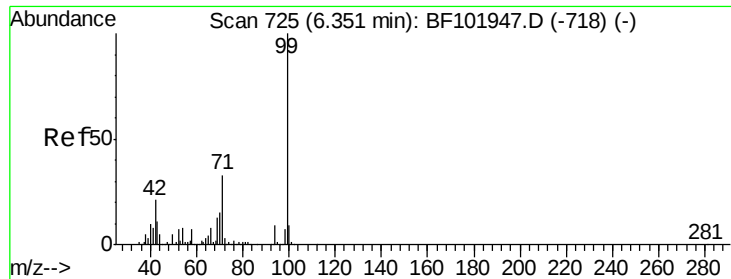


#5

2-Fluorophenol
Concen: 1.041 ng
RT: 5.32 min Scan# 549
Delta R.T. -0.01 min
Lab File: BF102222.D
Acq: 19 Jan 2018 15:06

Tgt Ion	Ratio	Lower	Upper
112	100		
64	65.5	47.9	71.9
63	35.1	23.7	35.5





#7

Phenol-d6

Concen: 1.095 ng

RT: 6.35 min Scan# 725

Delta R.T. -0.02 min

Lab File: BF102222.D

Acq: 19 Jan 2018 15:06

Instrument :

BNA_F

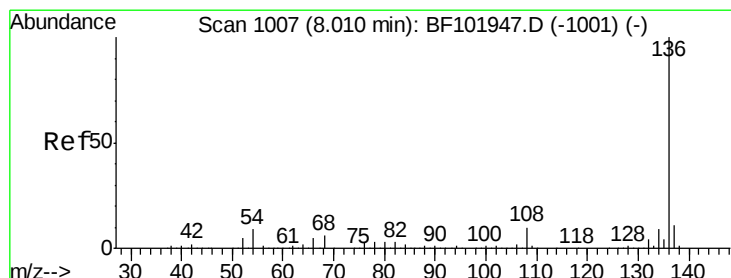
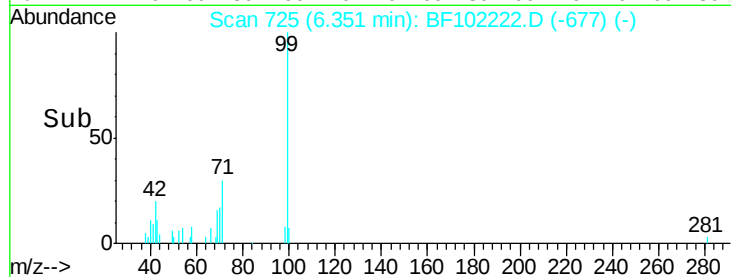
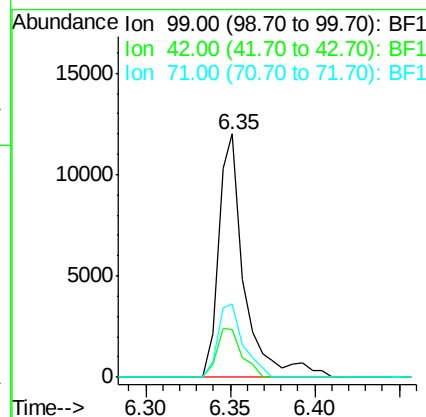
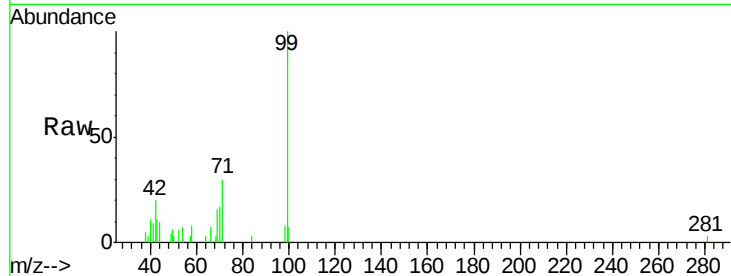
ClientSampleId :

A2 SB74 BOT-N 10DL

Tot Ion:	99	Resp:	12700
Ion Ratio	Lower	Upper	
99	100		
42	19.8	14.5	21.7
71	29.9	25.4	38.0

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#21

Naphthalene-d8

Concen: 20.000 ng

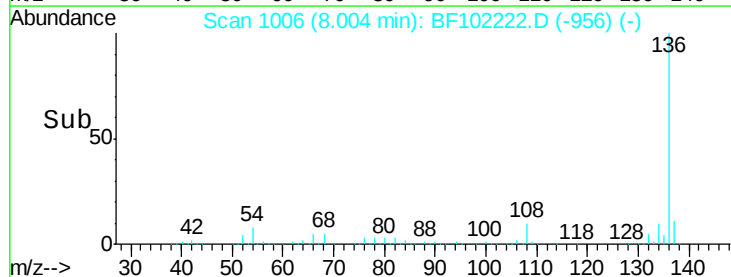
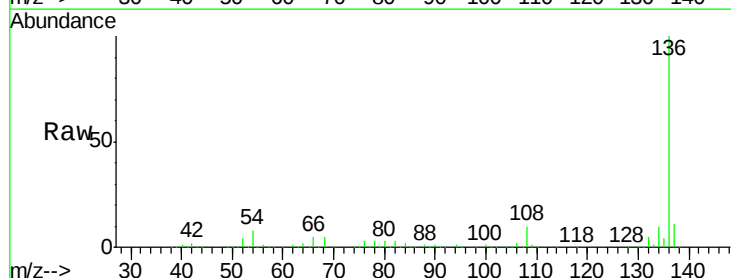
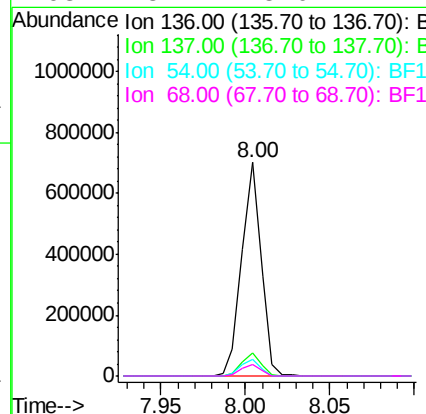
RT: 8.00 min Scan# 1006

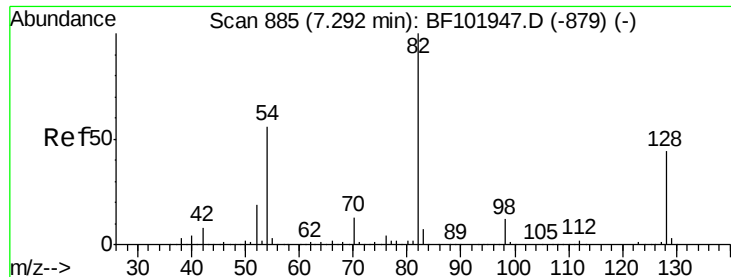
Delta R.T. -0.01 min

Lab File: BF102222.D

Acq: 19 Jan 2018 15:06

Tgt Ion:	136	Resp:	563194
Ion Ratio	Lower	Upper	
136	100		
137	11.1	8.9	13.3
54	7.9	6.6	9.8
68	5.4	5.0	7.4





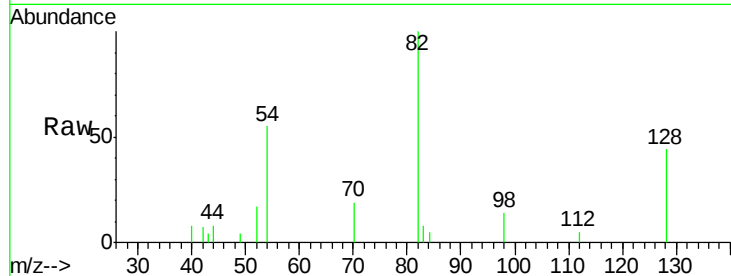
#23
Nitrobenzene-d5
Concen: 0.738 ng
RT: 7.28 min Scan# 883
Delta R.T. -0.02 min
Lab File: BF102222.D
Acq: 19 Jan 2018 15:06

Instrument :
BNA_F
ClientSampleId :
A2 SB74 BOT-N 10DL

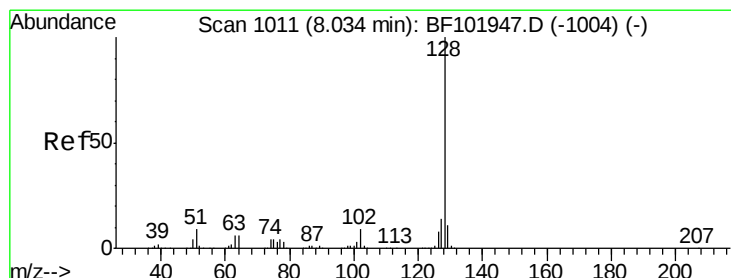
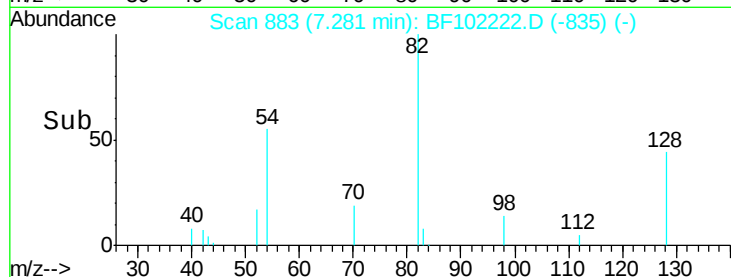
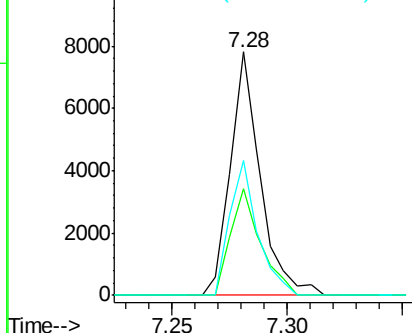
Tot Ion	82	Resp	7071
Ion Ratio	100	Lower	Upper
128	43.7	36.1	54.1
54	55.3	41.4	62.2

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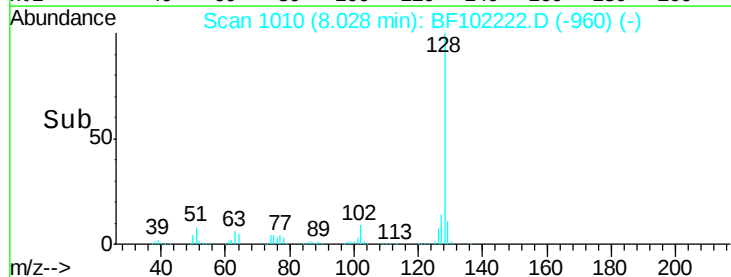
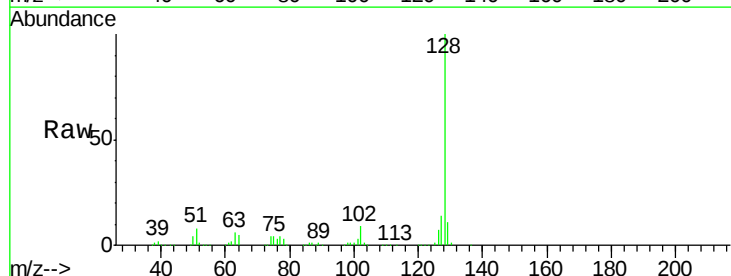
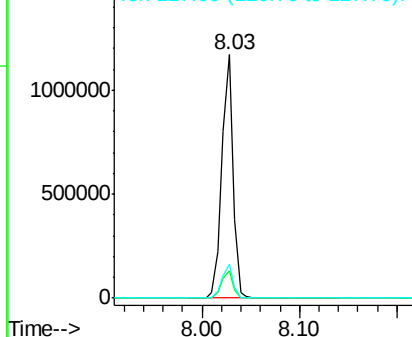
Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF1

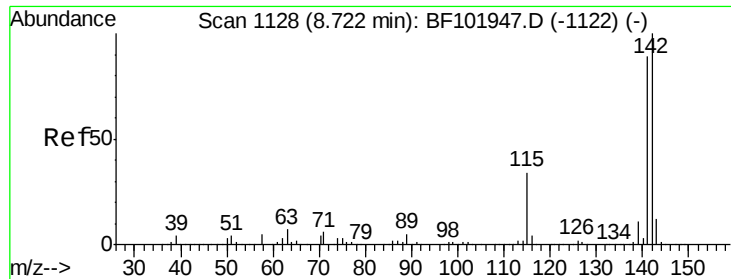


#31
Naphthalene
Concen: 33.431 ng
RT: 8.03 min Scan# 1010
Delta R.T. -0.01 min
Lab File: BF102222.D
Acq: 19 Jan 2018 15:06

Tgt Ion	128	Resp	940809
Ion Ratio	100	Lower	Upper
129	11.3	8.8	13.2
127	13.6	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





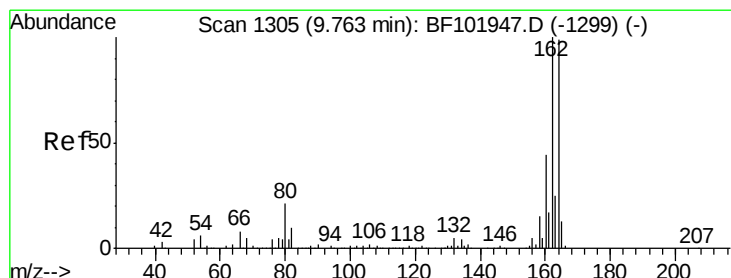
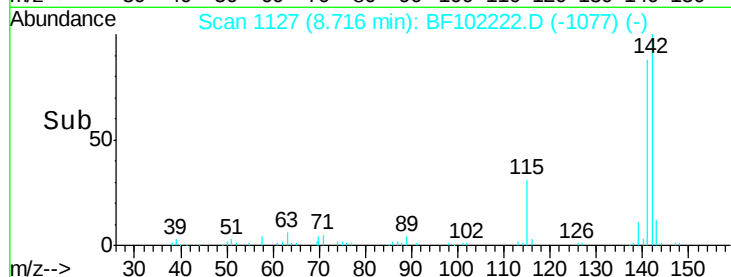
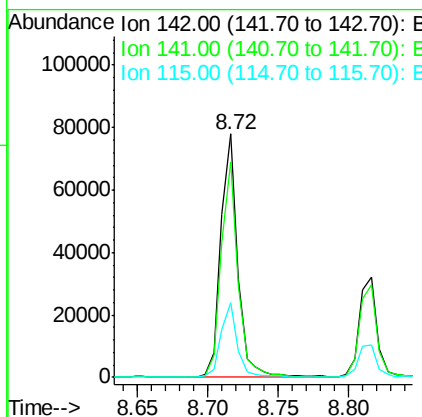
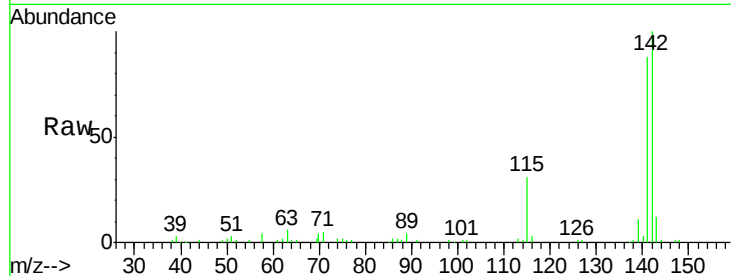
#37
2-Methylnaphthalene
Concen: 3.543 ng
RT: 8.72 min Scan# 1127
Delta R.T. -0.01 min
Lab File: BF102222.D
Acq: 19 Jan 2018 15:06

Instrument :
BNA_F
ClientSampleId :
A2 SB74 BOT-N 10DL

Tot Ion	Ratio	Lower	Upper
142	100		
141	88.2	70.8	106.2
115	30.9	26.1	39.1

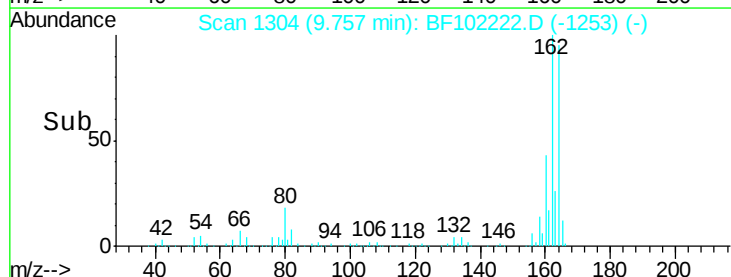
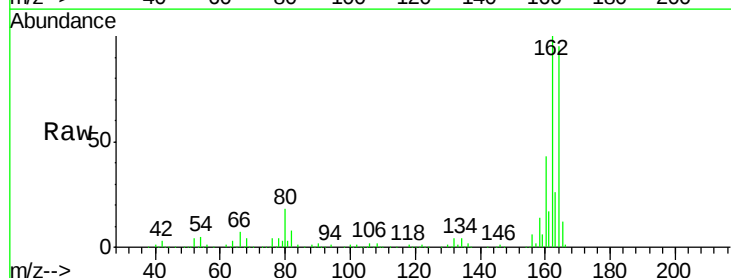
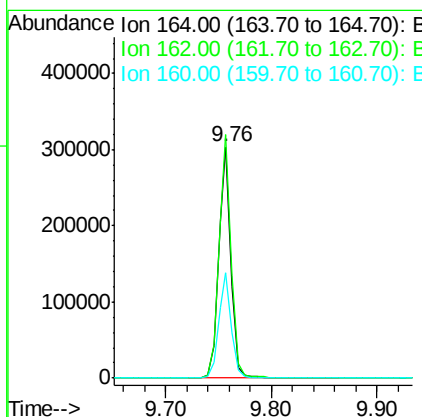
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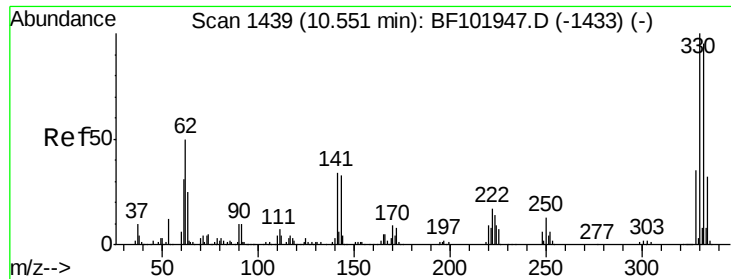
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#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.76 min Scan# 1304
Delta R.T. 0.00 min
Lab File: BF102222.D
Acq: 19 Jan 2018 15:06

Tgt Ion	Ratio	Lower	Upper
164	100		
162	105.3	86.1	129.1
160	45.4	38.3	57.5





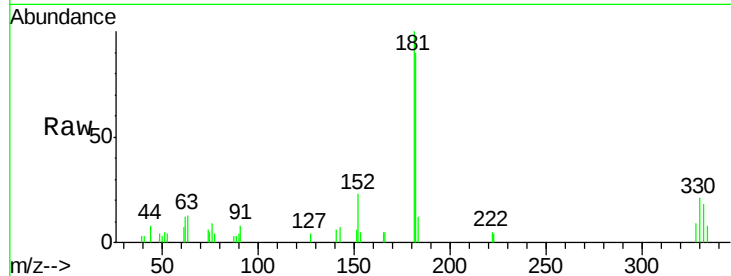
#41
 2,4,6-Tribromophenol
 Concen: 0.938 ng
 RT: 10.55 min Scan# 1438
 Delta R.T. -0.01 min
 Lab File: BF102222.D
 Acq: 19 Jan 2018 15:06

Instrument :
 BNA_F
 ClientSampleId :
 A2 SB74 BOT-N 10DL

Tot Ion	Ratio	Lower	Upper
330	100		
332	68.8	77.0	115.6#
141	45.2	29.9	44.9#

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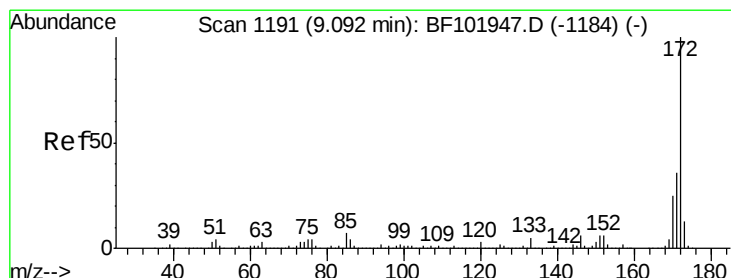
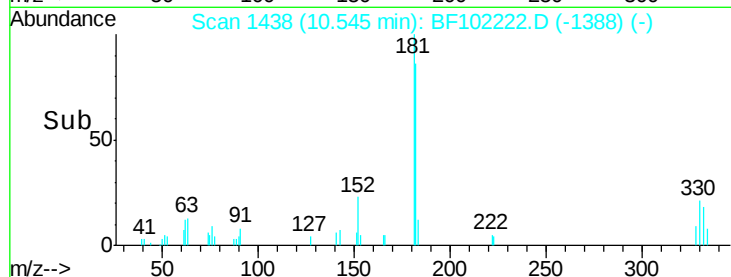
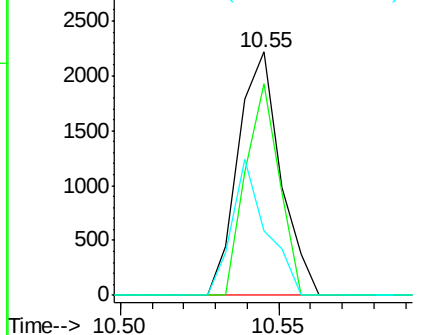


Abundance

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: 0.677 ng
 RT: 9.07 min Scan# 1188
 Delta R.T. -0.01 min
 Lab File: BF102222.D
 Acq: 19 Jan 2018 15:06

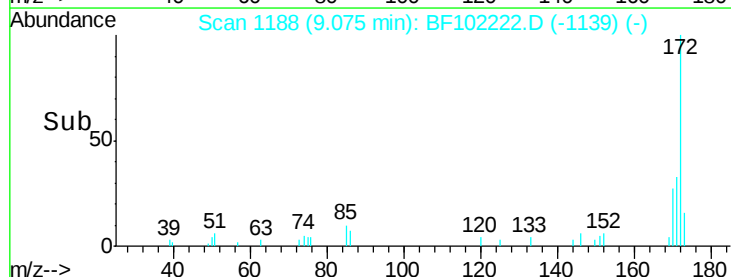
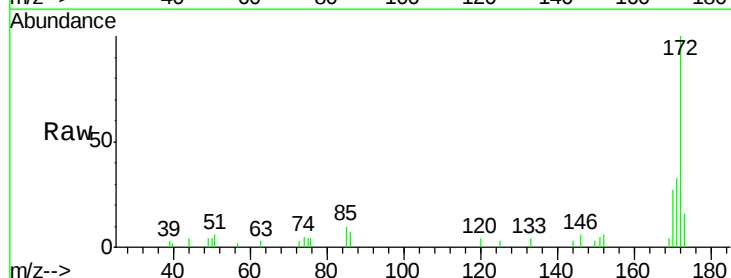
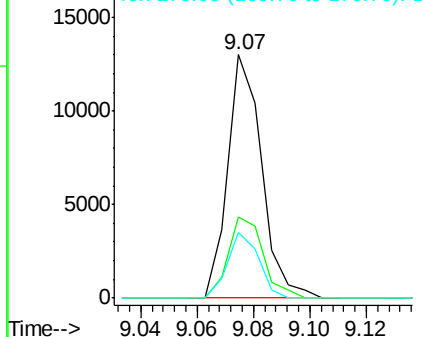
Tgt Ion	Ratio	Lower	Upper
172	100		
171	33.3	29.7	44.5
170	26.8	19.6	29.4

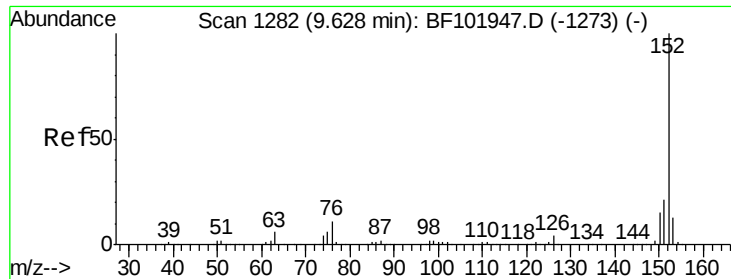
Abundance

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: 2.968 ng

RT: 9.62 min Scan# 1280

Delta R.T. -0.01 min

Lab File: BF102222.D

Acq: 19 Jan 2018 15:06

Instrument :

BNA_F

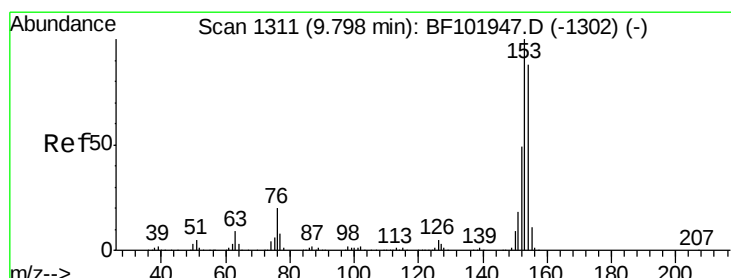
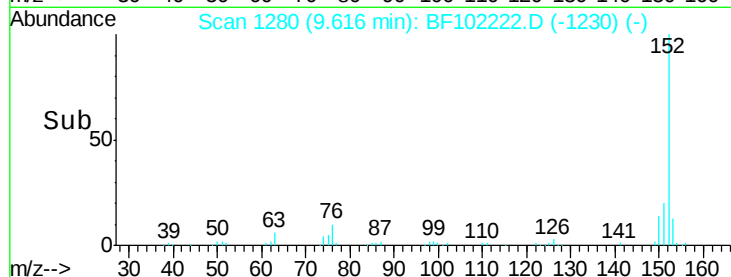
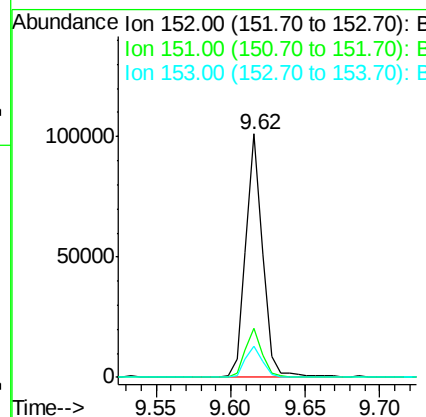
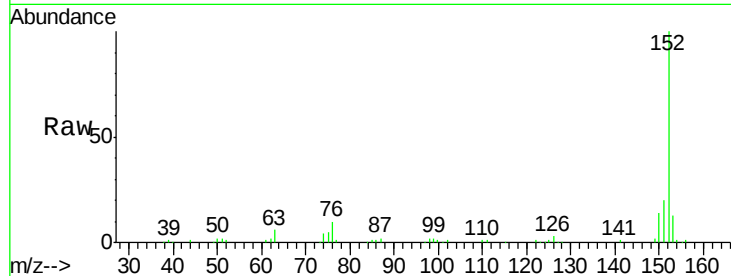
ClientSampleId :

A2 SB74 BOT-N 10DL

Tot Ion:	152	Resp:	80746
Ion Ratio	Lower	Upper	
152	100		
151	20.2	16.3	24.5
153	12.7	10.7	16.1

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#51

Acenaphthene

Concen: 4.722 ng

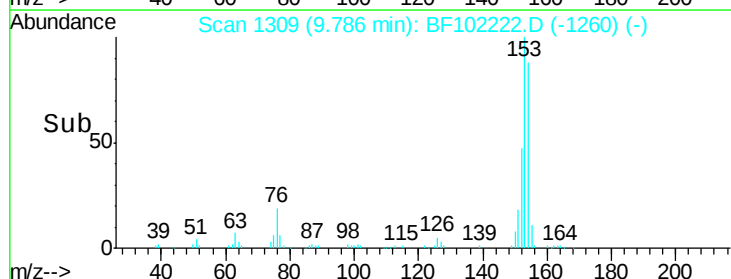
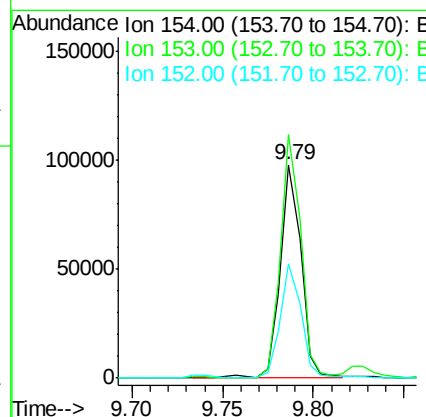
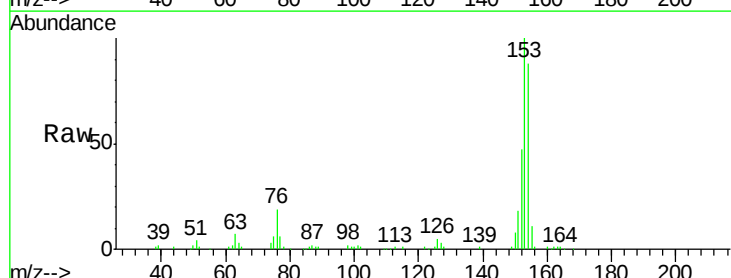
RT: 9.79 min Scan# 1309

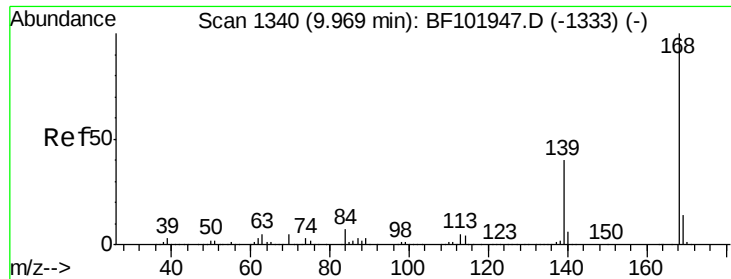
Delta R.T. -0.01 min

Lab File: BF102222.D

Acq: 19 Jan 2018 15:06

Tgt Ion:	154	Resp:	77965
Ion Ratio	Lower	Upper	
154	100		
153	114.1	91.2	136.8
152	53.7	43.8	65.8





#54

Dibenzofuran

Concen: 4.504 ng

RT: 9.96 min Scan# 1338

Delta R.T. -0.01 min

Lab File: BF102222.D

Acq: 19 Jan 2018 15:06

Instrument :

BNA_F

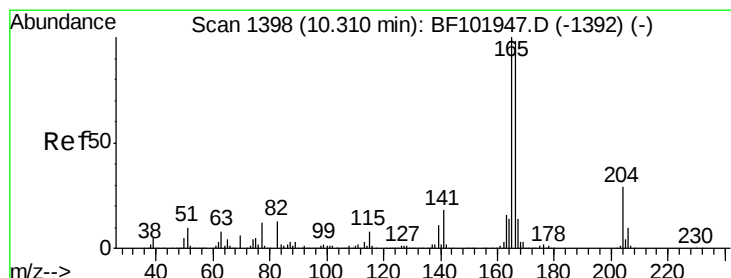
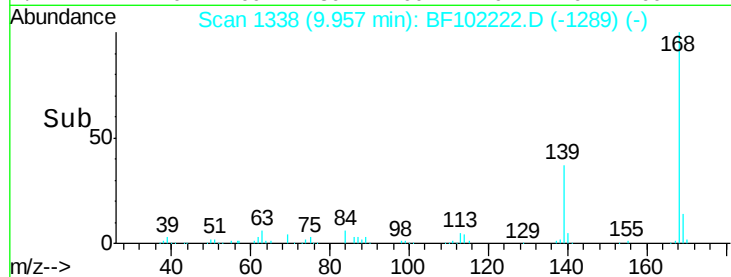
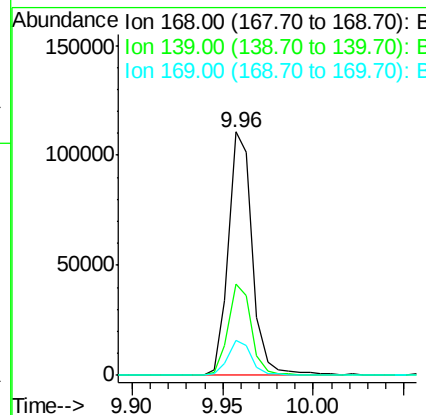
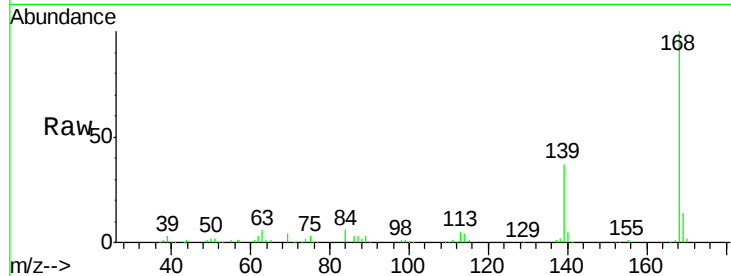
ClientSampleId :

A2 SB74 BOT-N 10DL

Tot Ion:	168	Resp:	102057
Ion Ratio	Lower	Upper	
168	100		
139	37.2	30.1	45.1
169	14.2	10.9	16.3

Manual Integrations
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#57

Fluorene

Concen: 8.102 ng

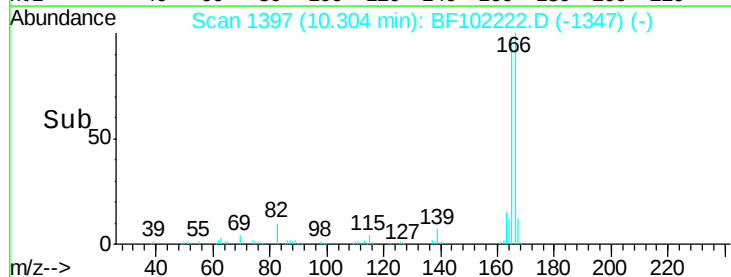
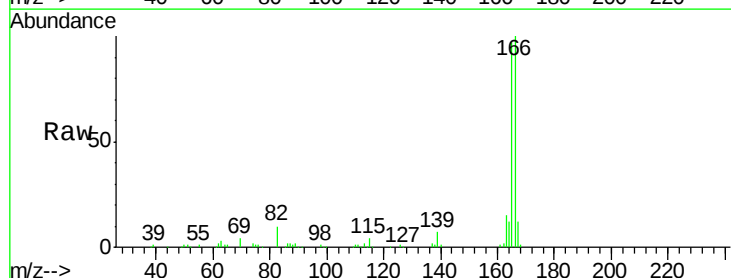
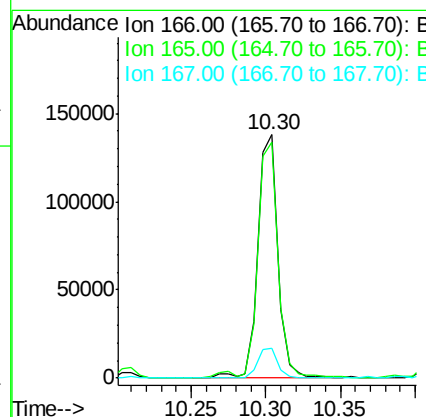
RT: 10.30 min Scan# 1397

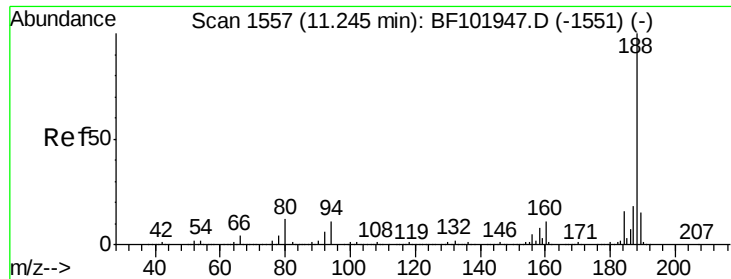
Delta R.T. -0.01 min

Lab File: BF102222.D

Acq: 19 Jan 2018 15:06

Tgt Ion:	166	Resp:	126910
Ion Ratio	Lower	Upper	
166	100		
165	96.7	79.8	119.8
167	12.4	10.6	16.0





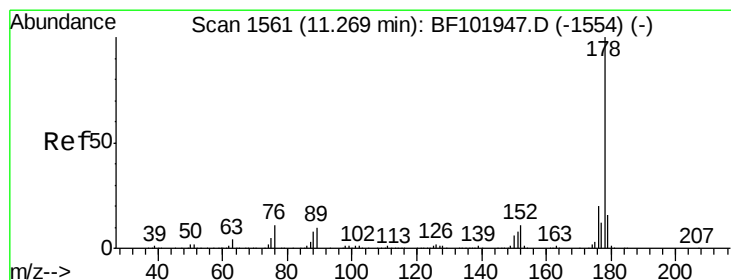
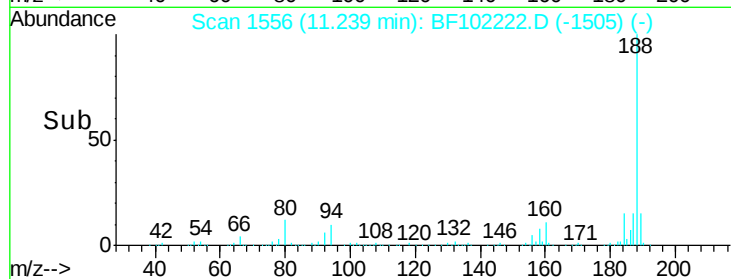
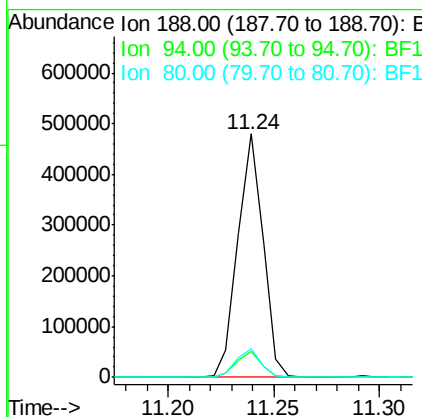
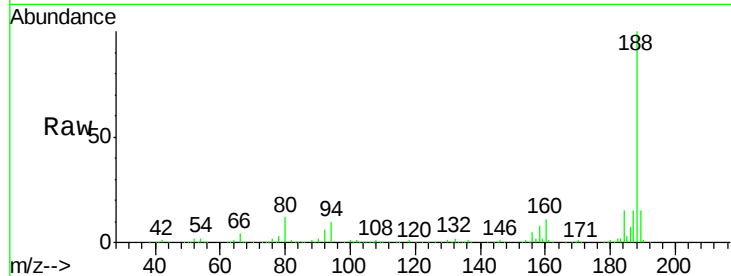
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.24 min Scan# 1556
Delta R.T. 0.00 min
Lab File: BF102222.D
Acq: 19 Jan 2018 15:06

Instrument :
BNA_F
ClientSampleId :
A2 SB74 BOT-N 10DL

Tot Ion	Ratio	Resp	Lower	Upper
188	100	398132		
94	10.5		8.5	12.7
80	11.5		9.2	13.8

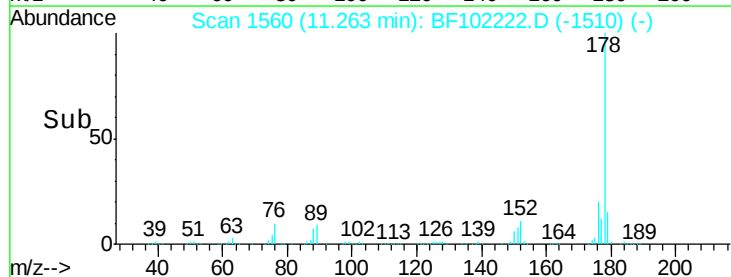
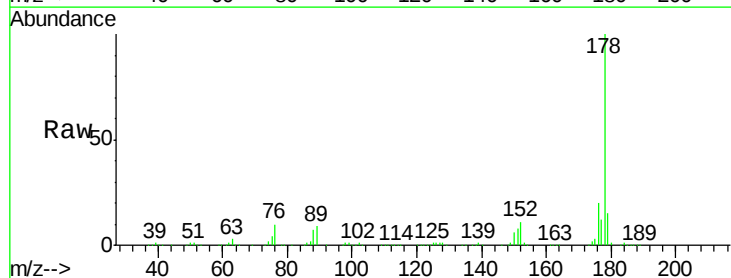
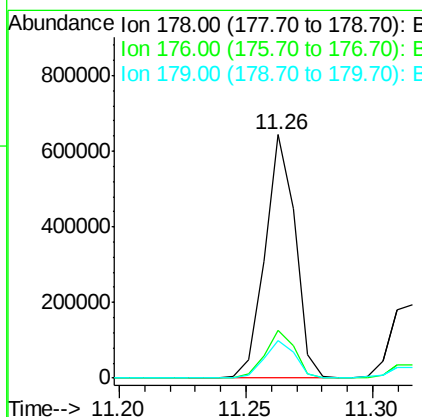
Manual Integrations
APPROVED

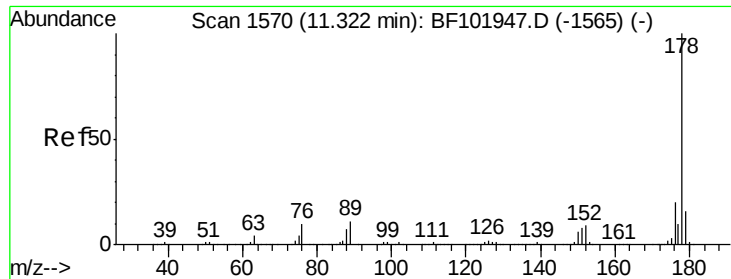
Sohil
1/22/2018 5:24:16 PM



#70
Phenanthrene
Concen: 23.124 ng
RT: 11.26 min Scan# 1560
Delta R.T. -0.01 min
Lab File: BF102222.D
Acq: 19 Jan 2018 15:06

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	537769		
176	19.5		15.8	23.8
179	15.5		13.0	19.6





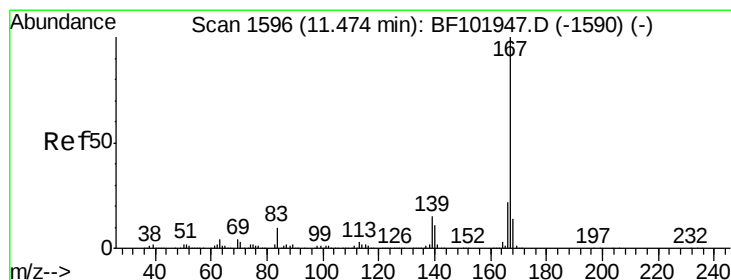
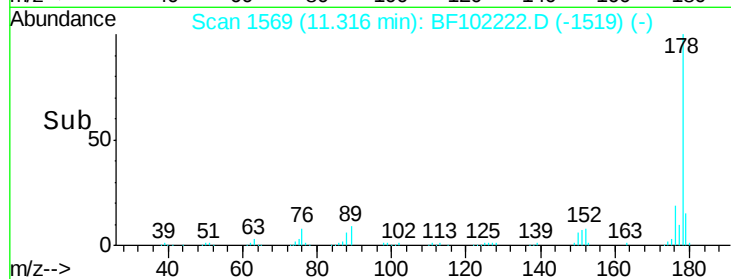
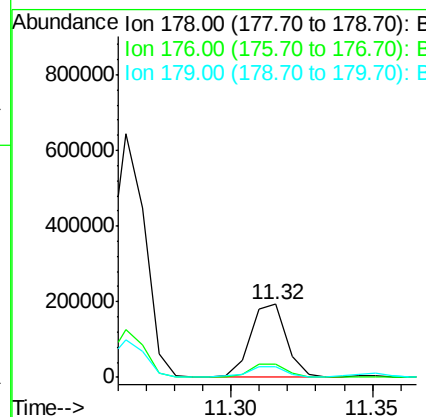
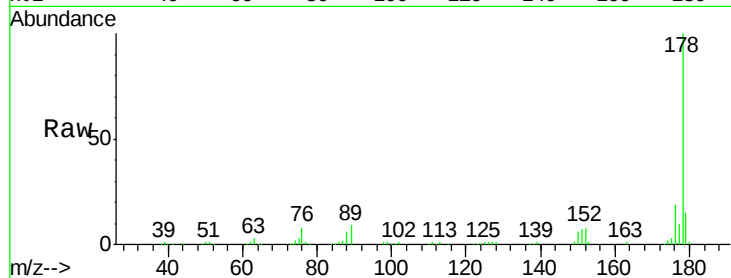
#71
 Anthracene
 Concen: 7.140 ng
 RT: 11.32 min Scan# 1569
 Delta R.T. -0.01 min
 Lab File: BF102222.D
 Acq: 19 Jan 2018 15:06

Instrument :
 BNA_F
 ClientSampleId :
 A2_SB74_BOT-N_10DL

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.6	15.4	23.2
179	14.6	12.6	19.0

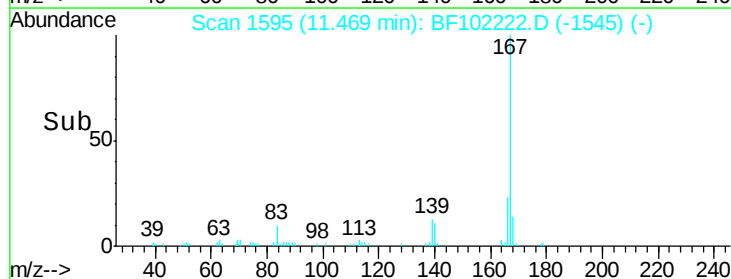
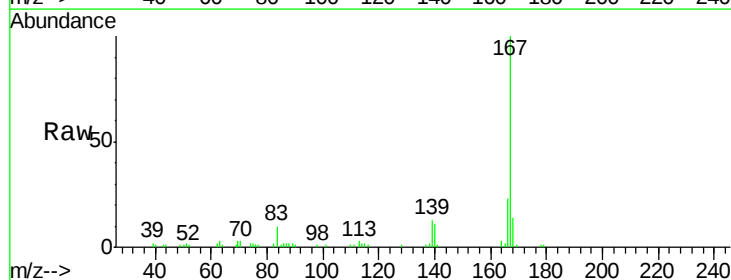
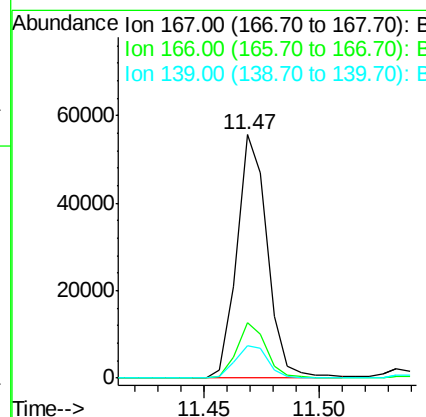
Manual Integrations
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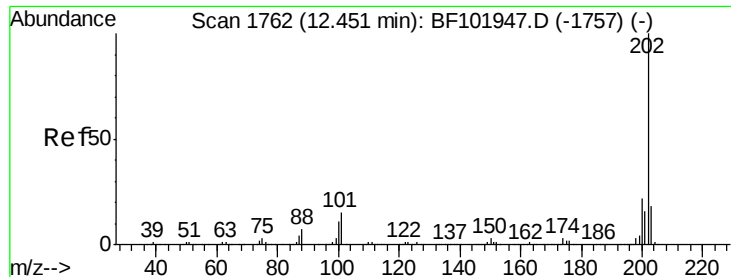
Sohil
 1/22/2018 5:24:16 PM



#72
 Carbazole
 Concen: 2.210 ng
 RT: 11.47 min Scan# 1595
 Delta R.T. -0.01 min
 Lab File: BF102222.D
 Acq: 19 Jan 2018 15:06

Tgt Ion	Ratio	Lower	Upper
167	100		
166	22.8	17.6	26.4
139	13.5	10.9	16.3





#74

Fluoranthene

Concen: 16.811 ng

RT: 12.45 min Scan# 1762

Delta R.T. 0.00 min

Lab File: BF102222.D

Acq: 19 Jan 2018 15:06

Instrument :

BNA_F

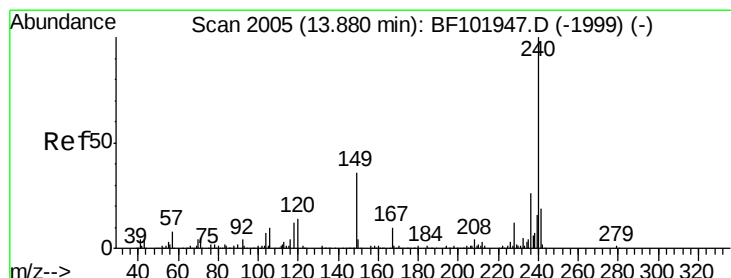
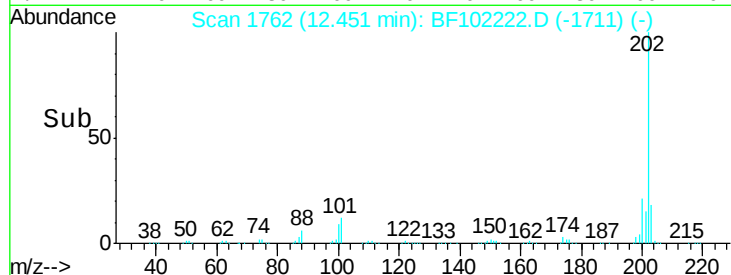
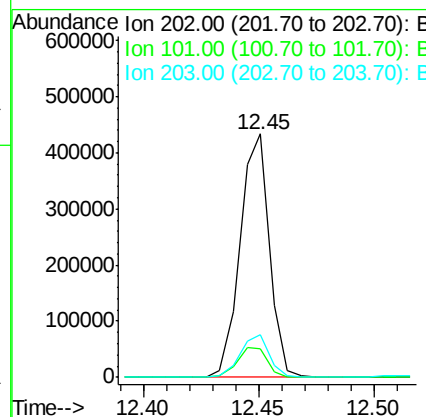
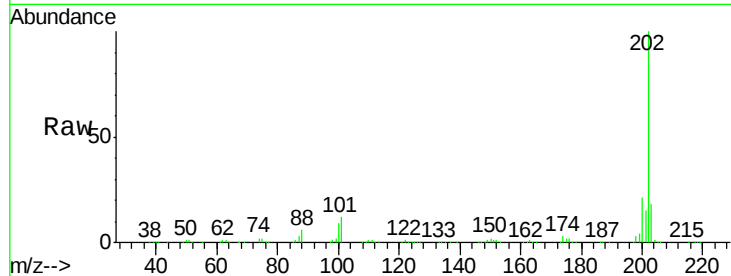
ClientSampleId :

A2 SB74 BOT-N 10DL

Tot Ion	Ratio	Resp Lower	Upper
202	100		
101	11.7	0.0	34.1
203	17.7	0.0	38.1

Manual Integrations
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#75

Chrysene-d12

Concen: 20.000 ng

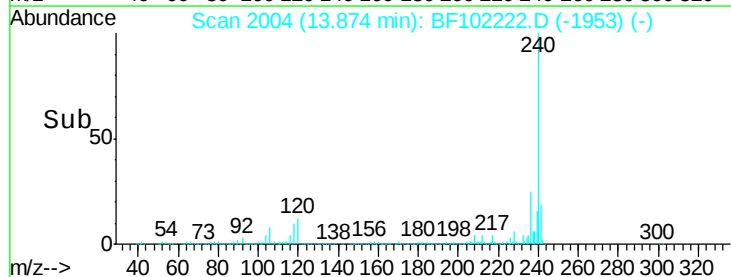
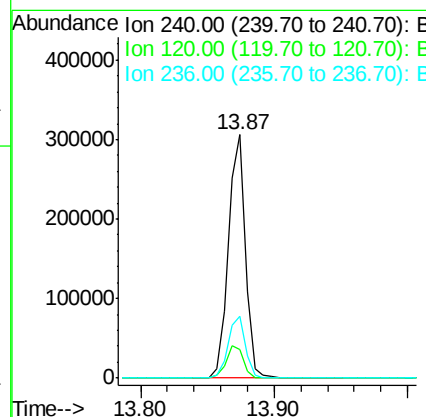
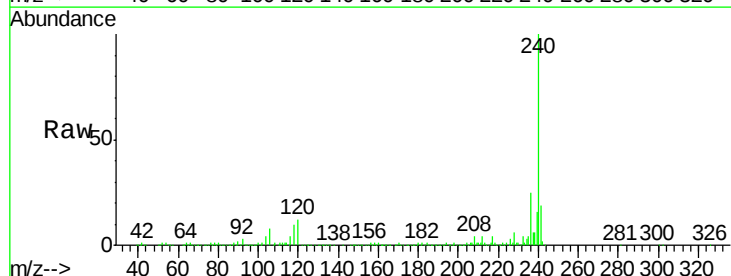
RT: 13.87 min Scan# 2004

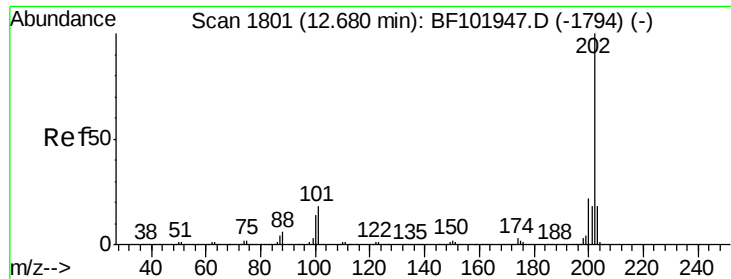
Delta R.T. 0.00 min

Lab File: BF102222.D

Acq: 19 Jan 2018 15:06

Tgt Ion	Ratio	Resp Lower	Upper
240	100		
120	11.8	9.5	14.3
236	25.2	20.7	31.1





#77

Pvrene

Concen: 11.407 ng

RT: 12.67 min Scan# 1800

Delta R.T. -0.01 min

Lab File: BF102222.D

Acq: 19 Jan 2018 15:06

Instrument :

BNA_F

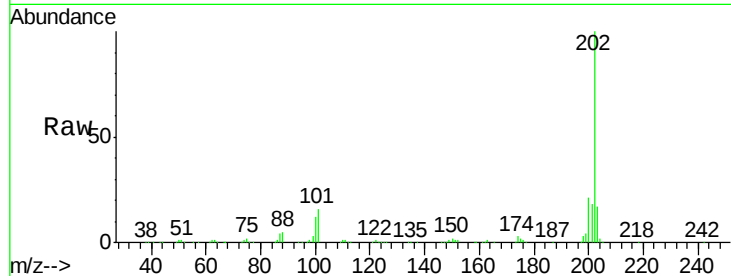
ClientSampleId :

A2 SB74 BOT-N 10DL

Tot Ion:	202	Resp:	280240
Ion Ratio		Lower	Upper
202	100		
200	20.8	17.4	26.2
203	17.4	14.3	21.5

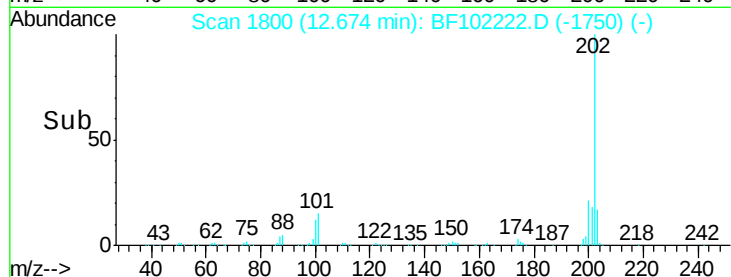
Manual Integrations
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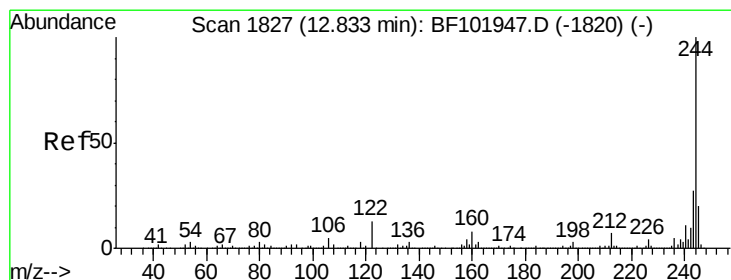


Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E

12.67



Time--> 12.60 12.65 12.70 12.75



#78

Terphenyl-d14

Concen: 0.998 ng

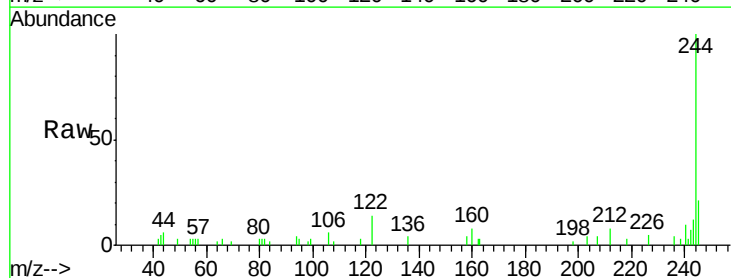
RT: 12.82 min Scan# 1824

Delta R.T. -0.01 min

Lab File: BF102222.D

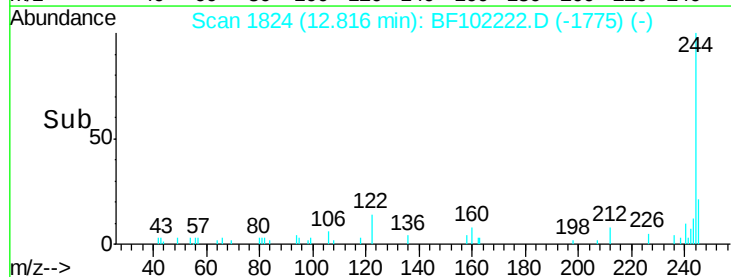
Acq: 19 Jan 2018 15:06

Tgt Ion:	244	Resp:	13357
Ion Ratio		Lower	Upper
244	100		
212	8.2	5.4	8.0#
122	14.0	11.0	16.4

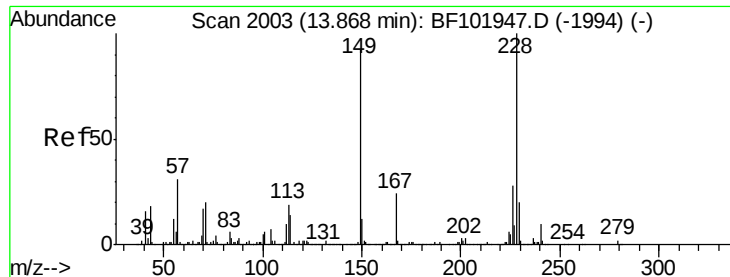


Abundance Ion 244.00 (243.70 to 244.70): E
Ion 212.00 (211.70 to 212.70): E
Ion 122.00 (121.70 to 122.70): E

12.82



Time--> 12.80 12.85



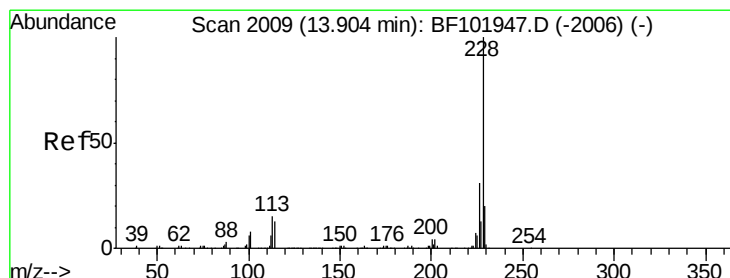
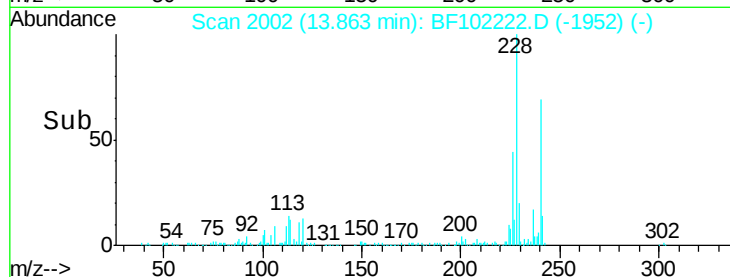
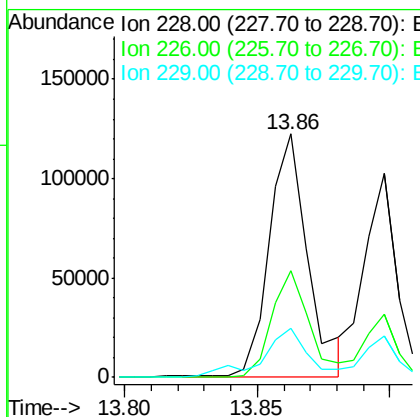
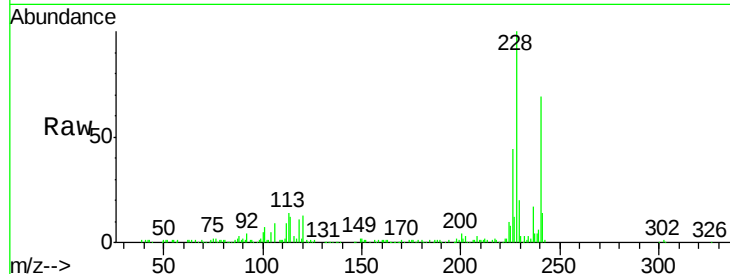
#80
Benzo(a)anthracene
Concen: 7.099 ng m
RT: 13.86 min Scan# 2002
Delta R.T. -0.01 min
Lab File: BF102222.D
Acq: 19 Jan 2018 15:06

Instrument :
BNA_F
ClientSampleId :
A2 SB74 BOT-N 10DL

Tot Ion	Ratio	Lower	Upper
228	100		
226	43.8	22.6	33.8#
229	20.2	15.8	23.6

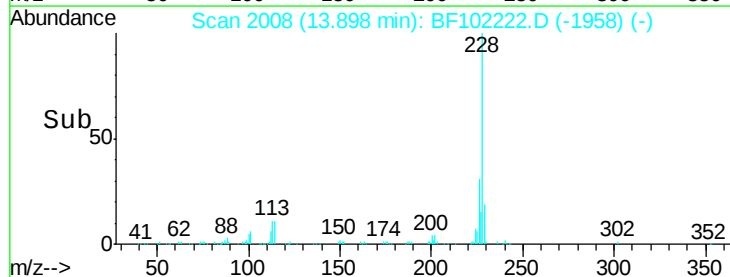
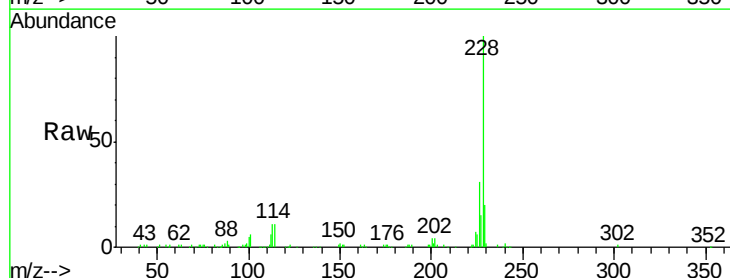
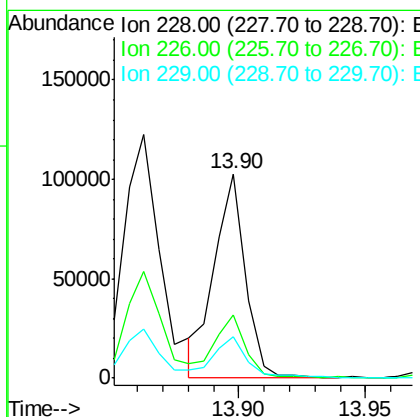
Manual Integrations
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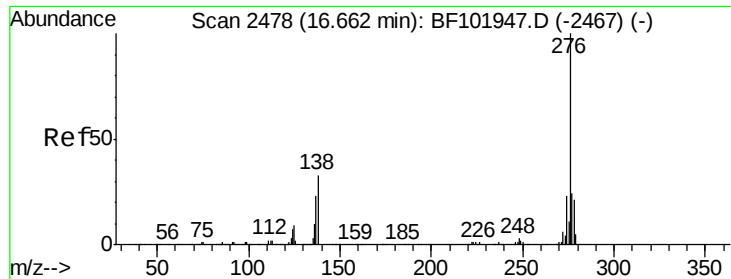
Sohil
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#82
Chrysene
Concen: 4.740 ng
RT: 13.90 min Scan# 2008
Delta R.T. -0.01 min
Lab File: BF102222.D
Acq: 19 Jan 2018 15:06

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.8	25.0	37.6
229	20.1	16.2	24.4





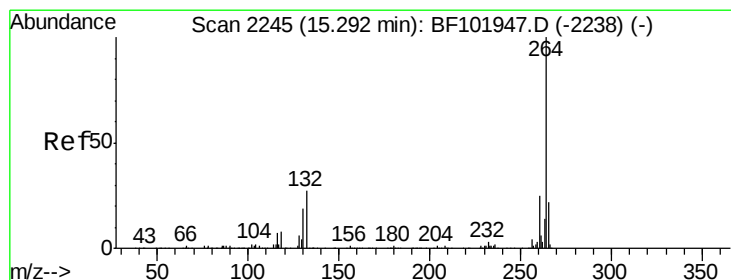
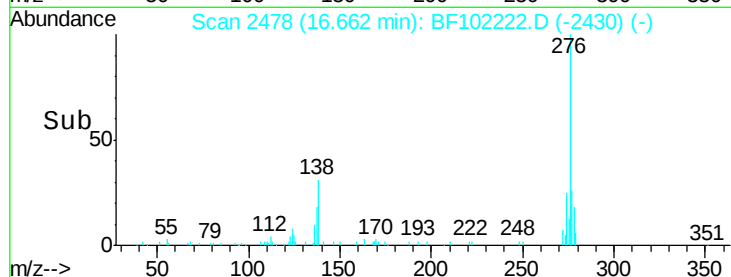
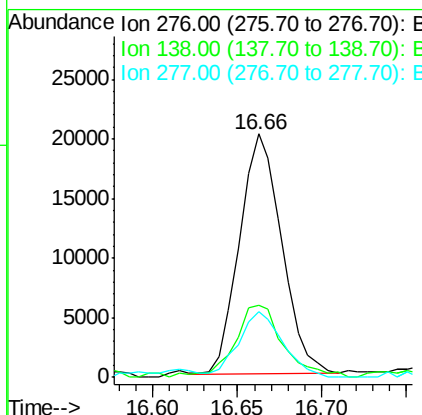
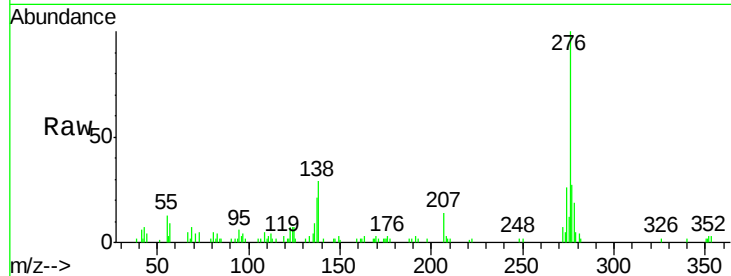
#85
Indeno(1,2,3-cd)pyrene
Concen: 2.611 ng
RT: 16.66 min Scan# 2478
Delta R.T. -0.02 min
Lab File: BF102222.D
Acq: 19 Jan 2018 15:06

Instrument :
BNA_F
ClientSampleId :
A2 SB74 BOT-N 10DL

Tot Ion	Ratio	Lower	Upper
276	100		
138	34.5	25.0	37.6
277	28.9	20.1	30.1

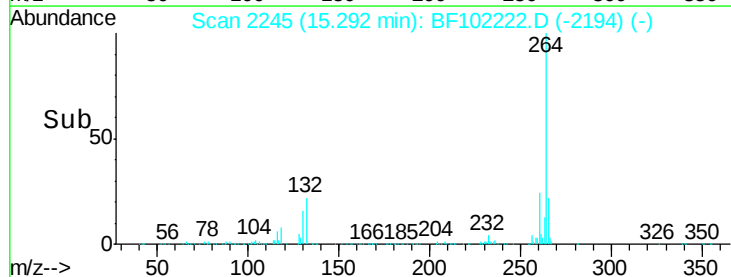
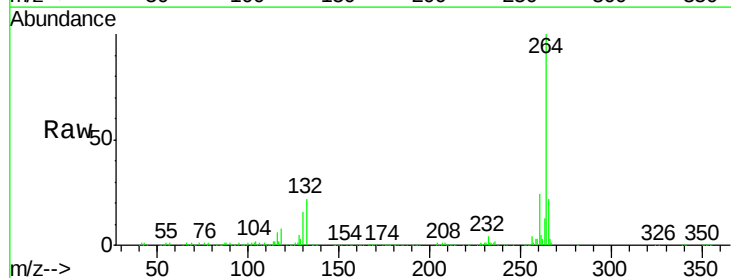
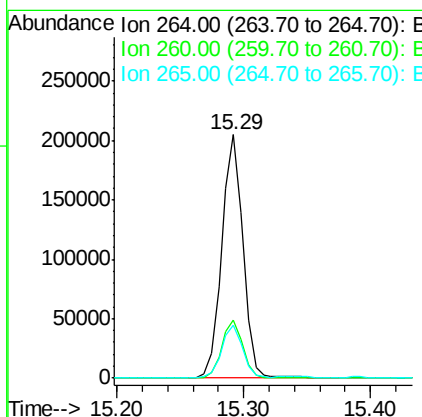
Manual Integrations
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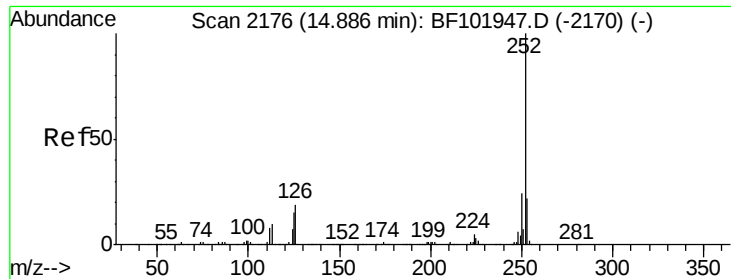
Sohil
1/22/2018 5:24:16 PM



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.29 min Scan# 2245
Delta R.T. 0.00 min
Lab File: BF102222.D
Acq: 19 Jan 2018 15:06

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.9	19.2	28.8
265	21.8	17.5	26.3





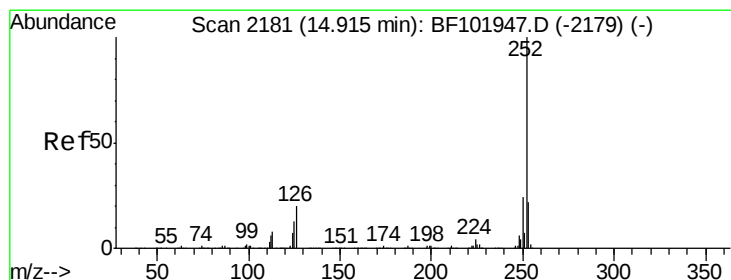
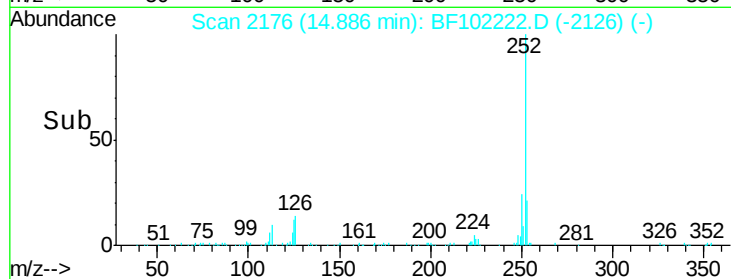
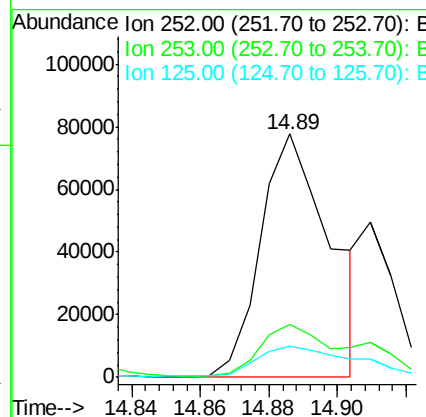
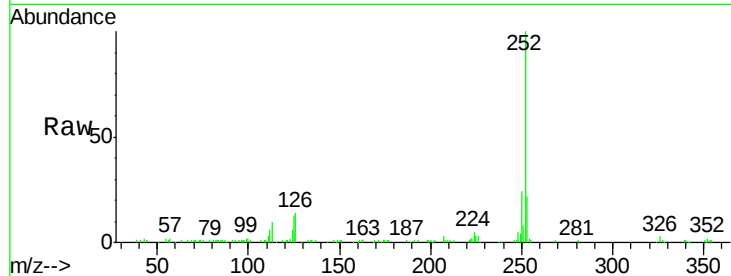
#87
Benzo(b)fluoranthene
Concen: 7.053 ng m
RT: 14.89 min Scan# 2176
Delta R.T. -0.01 min
Lab File: BF102222.D
Acq: 19 Jan 2018 15:06

Instrument :
BNA_F
ClientSampleId :
A2 SB74 BOT-N 10DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.0	25.6
125	12.7	9.0	13.6

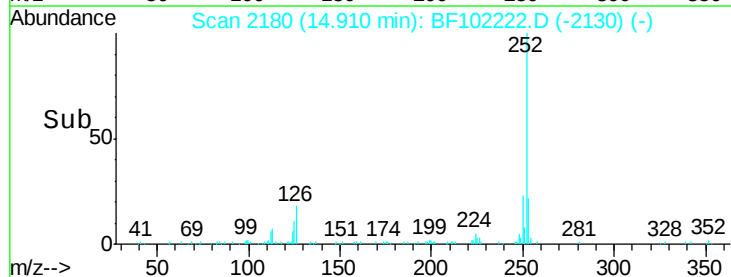
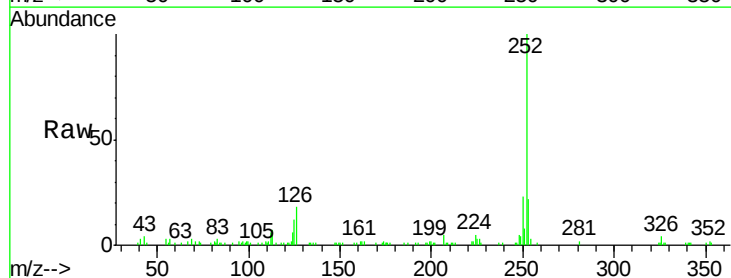
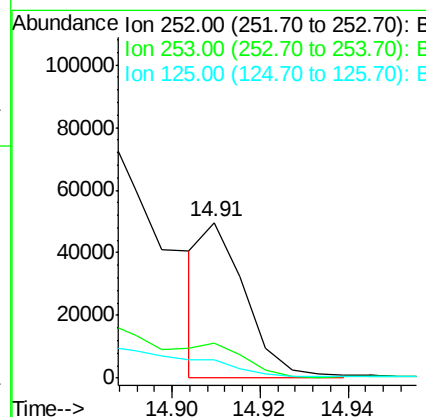
Manual Integrations
APPROVED

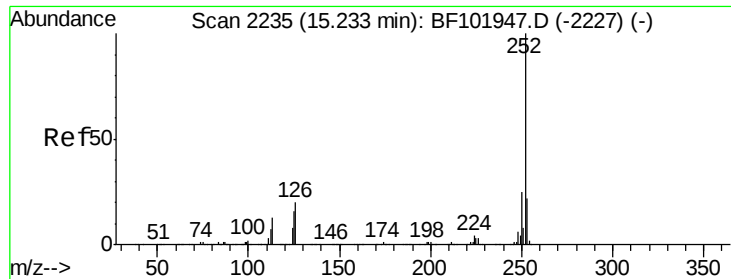
Sohil
1/22/2018 5:24:16 PM



#88
Benzo(k)fluoranthene
Concen: 2.269 ng m
RT: 14.91 min Scan# 2180
Delta R.T. -0.01 min
Lab File: BF102222.D
Acq: 19 Jan 2018 15:06

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.9	26.9
125	12.0	10.2	15.2





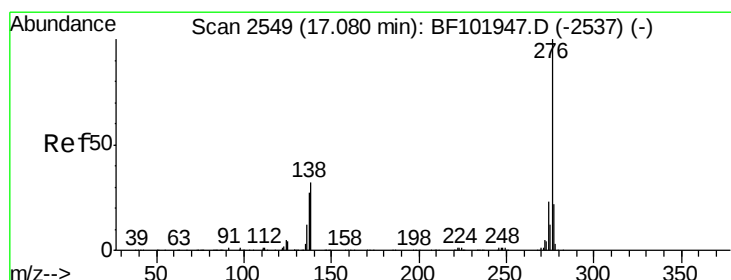
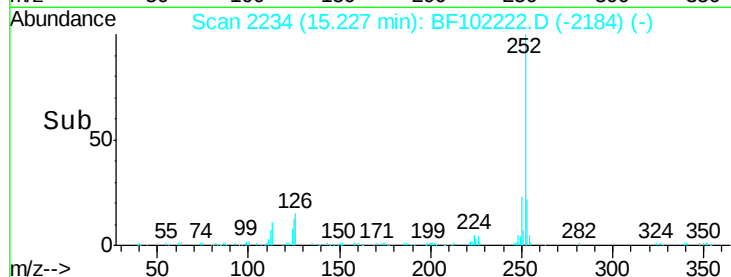
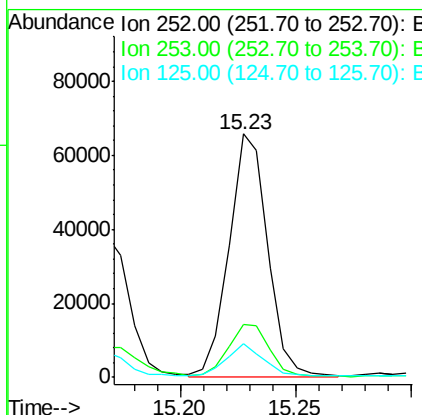
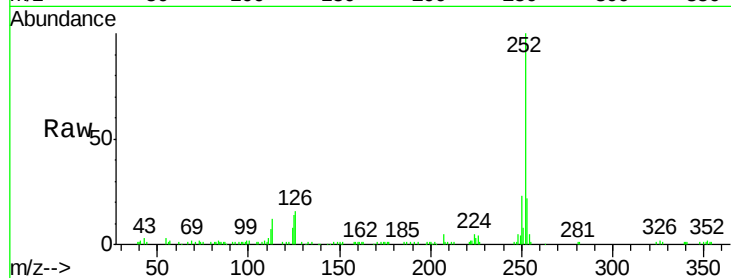
#89
Benzo(a)pyrene
Concen: 5.475 ng
RT: 15.23 min Scan# 2234
Delta R.T. -0.01 min
Lab File: BF102222.D
Acq: 19 Jan 2018 15:06

Instrument :
BNA_F
ClientSampleId :
A2 SB74 BOT-N 10DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.1	25.7
125	14.0	9.8	14.6

Manual Integrations
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Sohil
1/22/2018 5:24:16 PM



#91
Benzo(g,h,i)perylene
Concen: 2.784 ng
RT: 17.08 min Scan# 2549
Delta R.T. -0.02 min
Lab File: BF102222.D
Acq: 19 Jan 2018 15:06

Tgt Ion	Ratio	Lower	Upper
276	100		
277	20.0	17.9	26.9
138	25.7	21.8	32.8

