

Data Path : Z:\HPCHEM1\BNA F\DATA\BF041218\
 Data File : BF104461.D
 Acq On : 12 Apr 2018 19:49
 Operator : JU/SJ
 Sample : J2335-01 5X
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 S1

Manual Integrations
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Sohil
 4/13/2018 4:44:24 PM

Quant Time: Apr 13 02:23:03 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040618.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Apr 12 17:07:03 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.81	152	113598	20.00	ng	0.00
21) Naphthalene-d8	8.09	136	422184	20.00	ng	0.00
38) Acenaphthene-d10	9.85	164	156803	20.00	ng	0.00
63) Phenanthrene-d10	11.34	188	251524	20.00	ng	0.00
75) Chrysene-d12	14.00	240	193853	20.00	ng	0.01
86) Perylene-d12	15.47	264	172630	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.41	112	164216	22.10	ng	0.00
7) Phenol-d6	6.43	99	194569	21.32	ng	-0.01
23) Nitrobenzene-d5	7.37	82	106681	16.50	ng	-0.01
41) 2,4,6-Tribromophenol	10.64	330	31235	19.20	ng	0.00
44) 2-Fluorobiphenyl	9.17	172	167635	16.89	ng	0.00
78) Terphenyl-d14	12.93	244	138411	16.28	ng	0.00
Target Compounds						
31) Naphthalene	8.12	128	178708	8.501	ng	100
37) 2-Methylnaphthalene	8.80	142	48586	3.573	ng	95
51) Acenaphthene	9.88	154	133698	13.423	ng	98
54) Dibenzofuran	10.06	168	105200	7.579	ng	96
57) Fluorene	10.40	166	194076	19.209	ng	98
70) Phenanthrene	11.37	178	1986568	141.825	ng	99
71) Anthracene	11.42	178	527302	37.034	ng	99
72) Carbazole	11.57	167	492064	35.366	ng	99
74) Fluoranthene	12.58	202	2728074	186.410	ng	98
77) Pyrene	12.81	202	2426418	168.864	ng	98
80) Benzo(a)anthracene	13.99	228	1381554	119.295	ng	98
82) Chrysene	14.03	228	1386916m	116.592	ng	
85) Indeno(1,2,3-cd)pyrene	16.94	276	570966m	56.503	ng	
87) Benzo(b)fluoranthene	15.05	252	1593220m	146.127	ng	
88) Benzo(k)fluoranthene	15.07	252	380205m	36.937	ng	
89) Benzo(a)pyrene	15.42	252	1014299	103.972	ng	96
90) Dibenzo(a,h)anthracene	16.94	278	144500	18.035	ng	96
91) Benzo(g,h,i)perylene	17.38	276	530604	68.355	ng	96

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

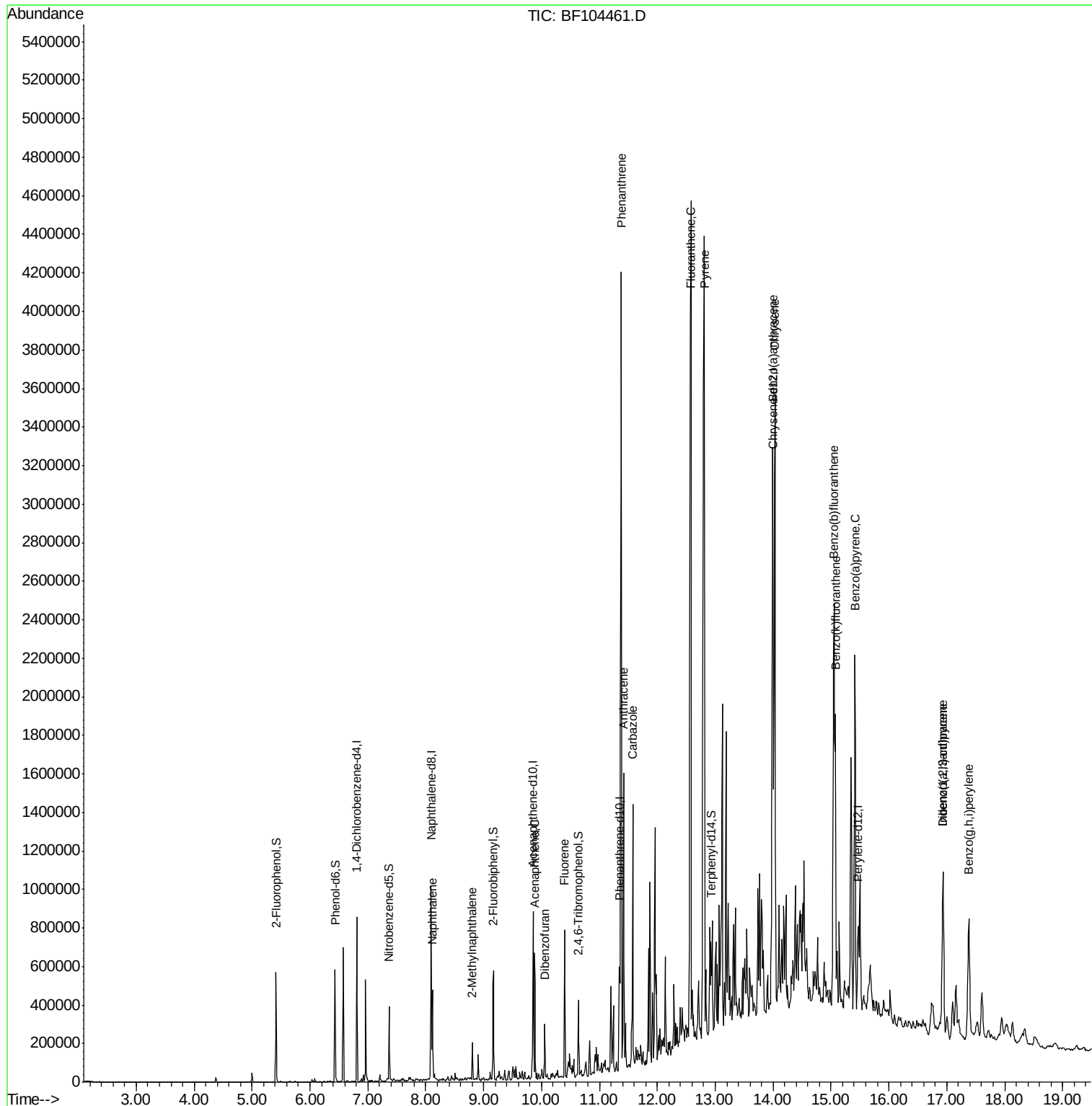
Data Path : Z:\HPCHEM1\BNA F\DATA\BF041218\
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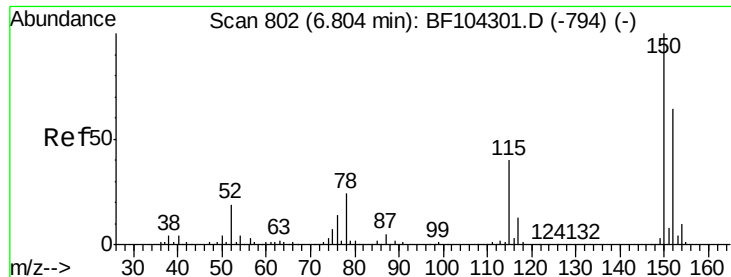
Instrument :
BNA_F
ClientSampled :
S1

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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040618.M
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#1

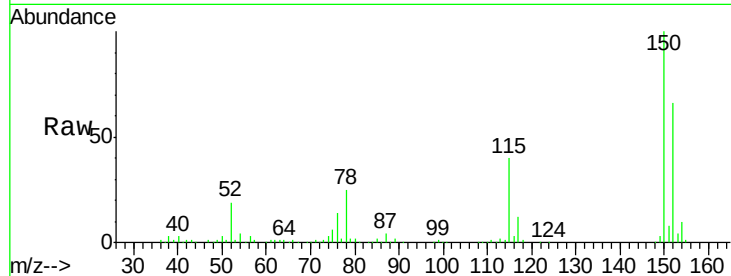
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.81 min Scan# 803
Delta R.T. 0.00 min
Lab File: BF104461.D
Acq: 12 Apr 2018 19:49

Instrument :
BNA_F
ClientSampled :
S1

Tot Ion	Ratio	Lower	Upper
152	100		
150	152.3	124.6	186.8
115	60.8	50.1	75.1

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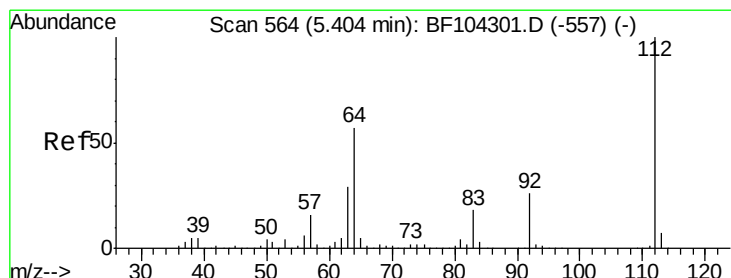
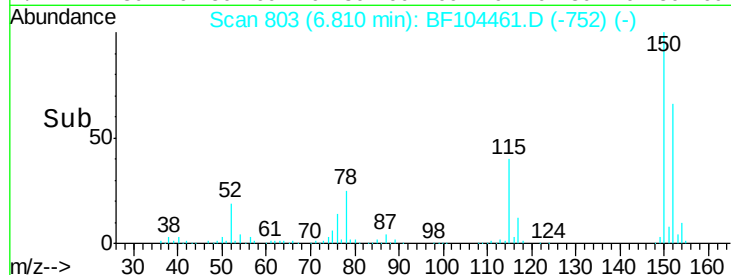
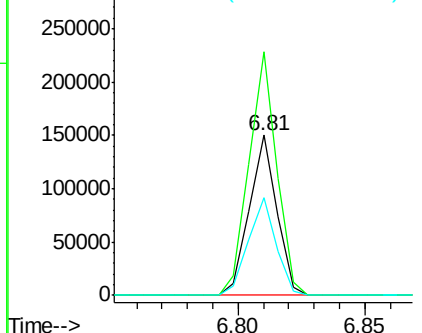


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

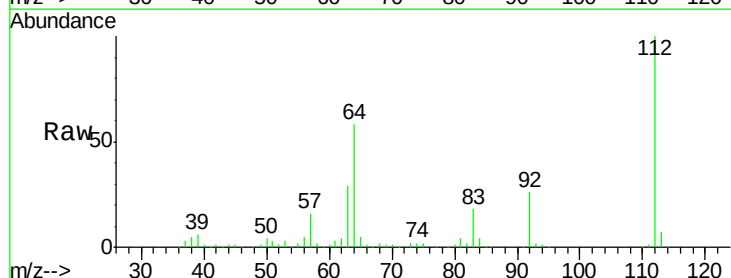
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 22.104 ng
RT: 5.41 min Scan# 565
Delta R.T. -0.01 min
Lab File: BF104461.D
Acq: 12 Apr 2018 19:49

Tgt Ion	Ratio	Lower	Upper
112	100		
64	58.1	47.9	71.9
63	29.5	23.7	35.5

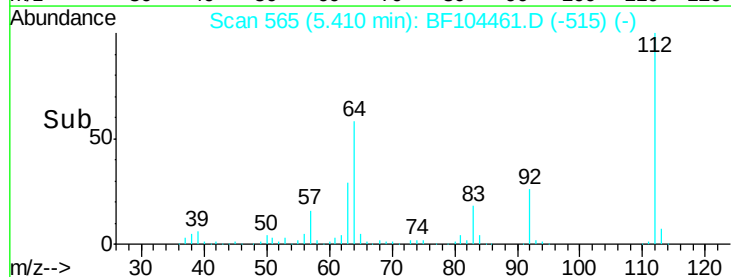
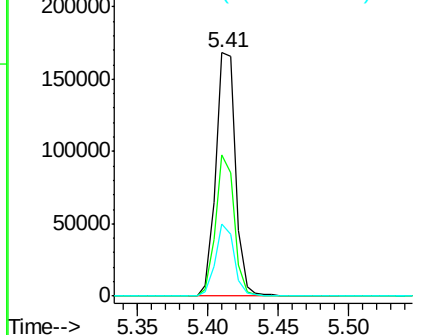


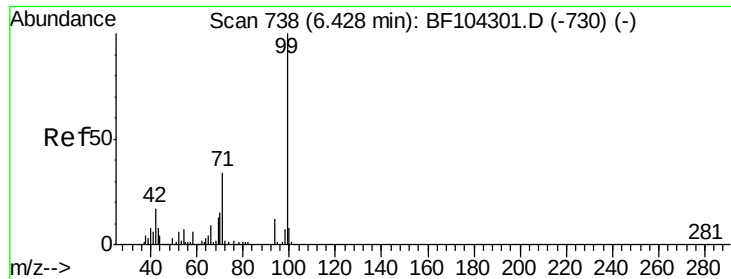
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 21.315 ng

RT: 6.43 min Scan# 739

Delta R.T. -0.01 min

Lab File: BF104461.D

Acq: 12 Apr 2018 19:49

Instrument :

BNA_F

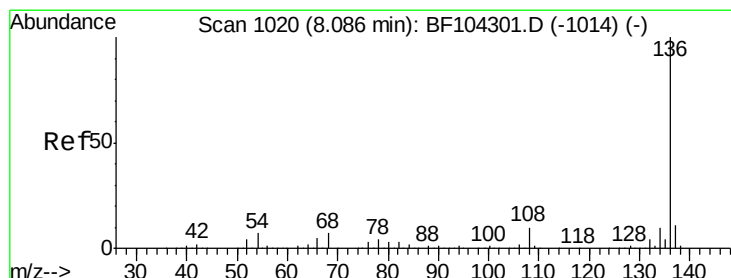
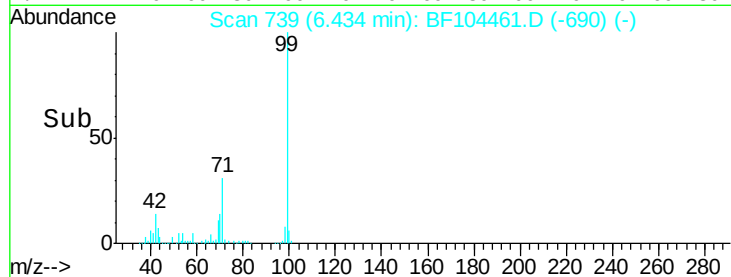
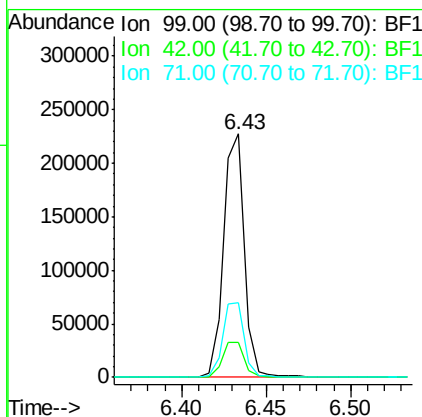
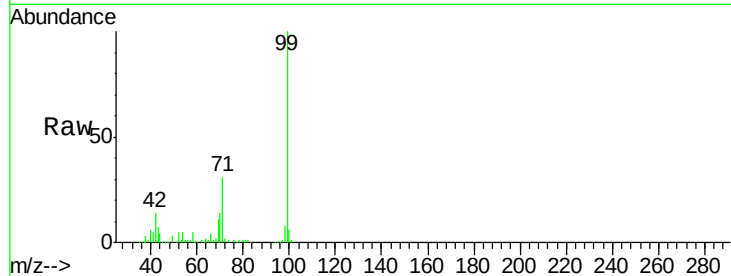
ClientSampleId :

S1

Tot Ion:	99	Resp:	194569
Ion Ratio	Lower	Upper	
99	100		
42	14.5	14.5	21.7#
71	30.6	25.4	38.0

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#21

Naphthalene-d8

Concen: 20.000 ng

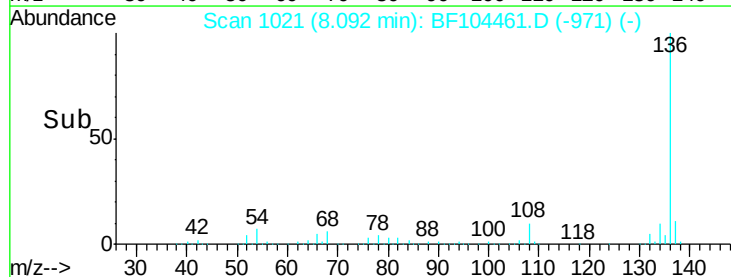
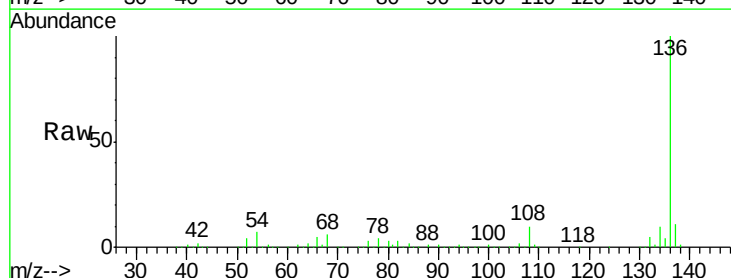
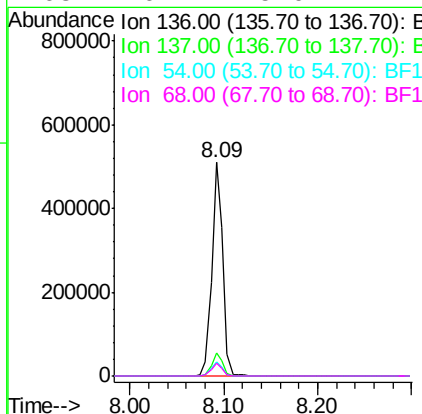
RT: 8.09 min Scan# 1021

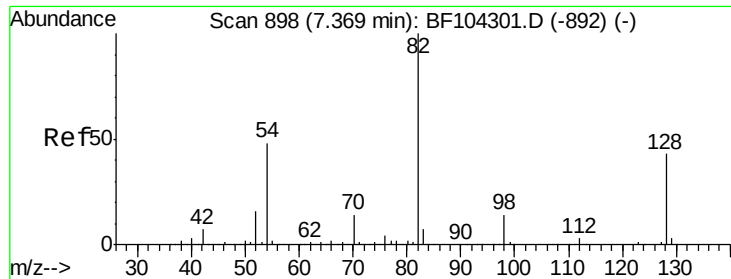
Delta R.T. -0.01 min

Lab File: BF104461.D

Acq: 12 Apr 2018 19:49

Tgt Ion:	136	Resp:	422184
Ion Ratio	Lower	Upper	
136	100		
137	11.1	8.9	13.3
54	6.9	6.6	9.8
68	6.2	5.0	7.4





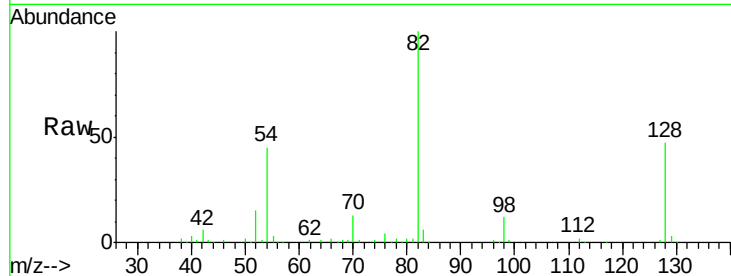
#23
Nitrobenzene-d5
Concen: 16.500 ng
RT: 7.37 min Scan# 898
Delta R.T. -0.01 min
Lab File: BF104461.D
Acq: 12 Apr 2018 19:49

Instrument :
BNA_F
ClientSampled :
S1

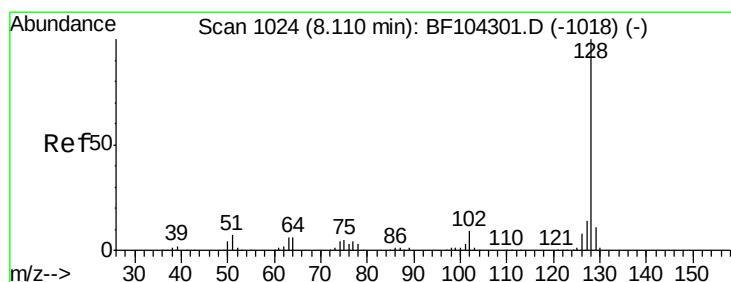
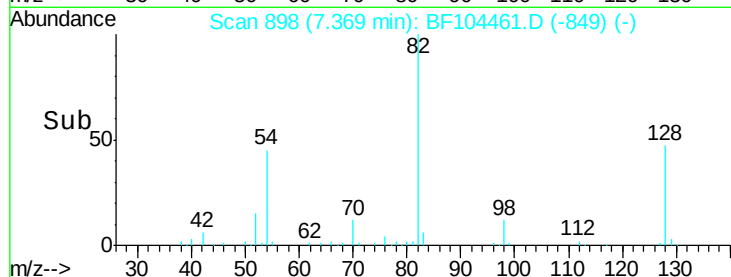
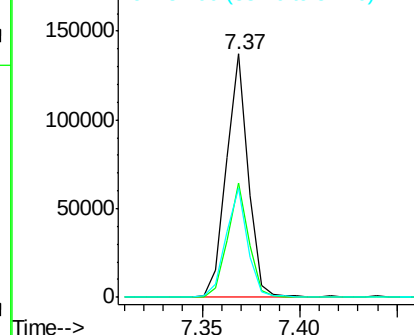
Tot Ion	Ratio	Resp	Lower	Upper
82	100	106681		
128	47.1	36.1	54.1	
54	44.7	41.4	62.2	

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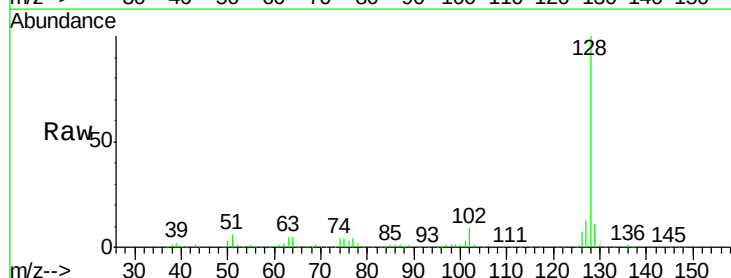


Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF1

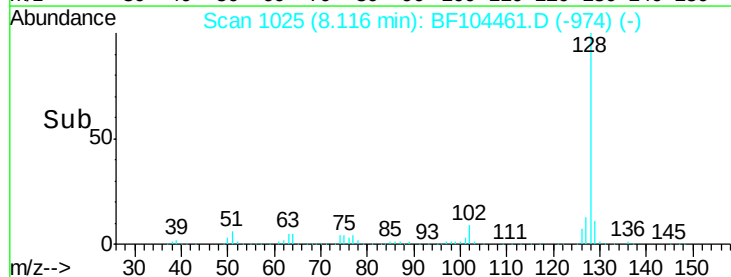
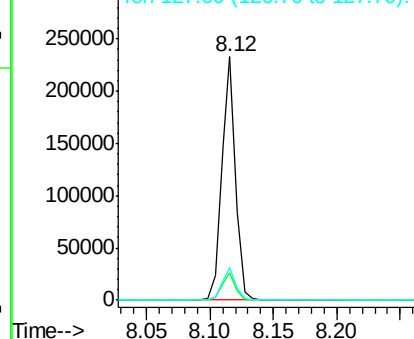


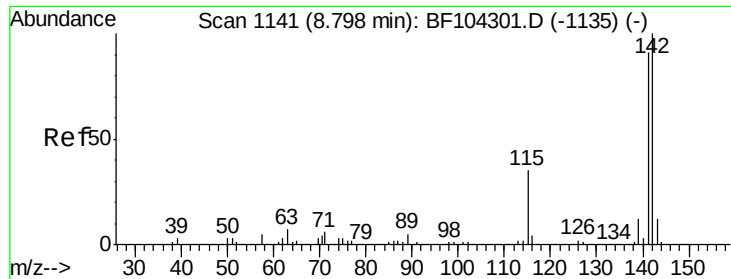
#31
Naphthalene
Concen: 8.501 ng
RT: 8.12 min Scan# 1025
Delta R.T. 0.00 min
Lab File: BF104461.D
Acq: 12 Apr 2018 19:49

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	178708		
129	10.9	8.8	13.2	
127	13.3	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





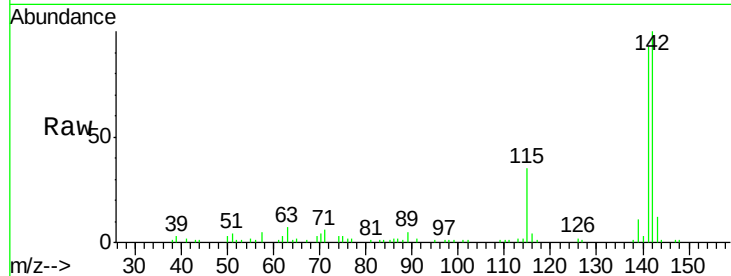
#37
2-Methylnaphthalene
Concen: 3.573 ng
RT: 8.80 min Scan# 1142
Delta R.T. -0.01 min
Lab File: BF104461.D
Acq: 12 Apr 2018 19:49

Instrument :
BNA_F
ClientSampleId :
S1

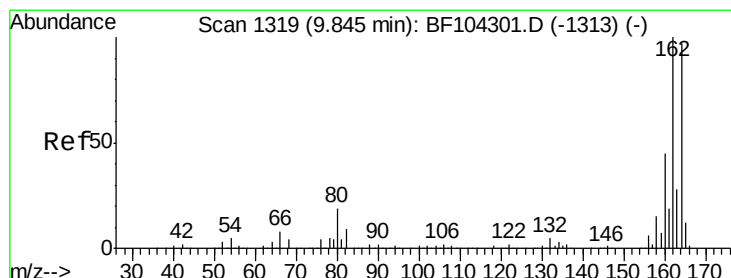
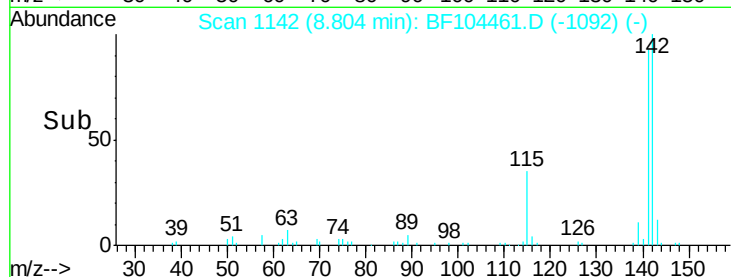
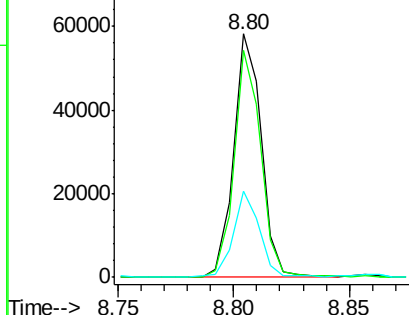
Tot Ion	Ratio	Lower	Upper
142	100		
141	93.0	70.8	106.2
115	35.4	26.1	39.1

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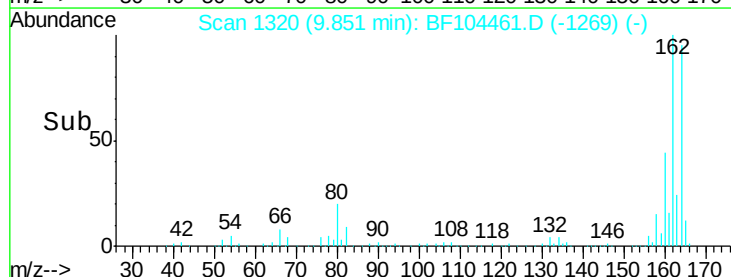
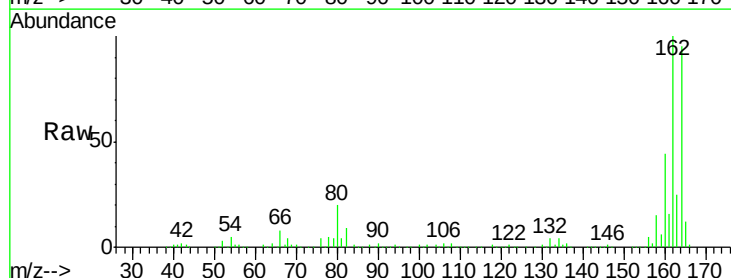
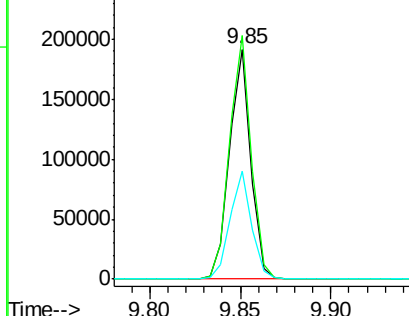
Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 115.00 (114.70 to 115.70): E

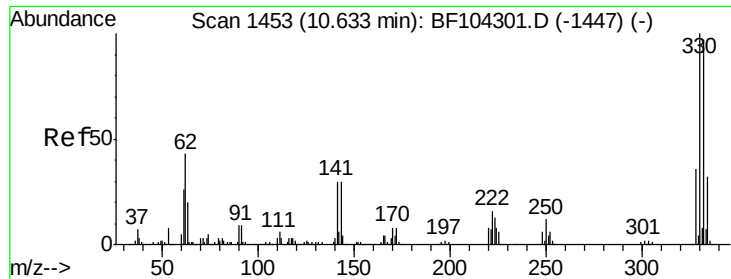


#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.85 min Scan# 1320
Delta R.T. 0.00 min
Lab File: BF104461.D
Acq: 12 Apr 2018 19:49

Tgt Ion	Ratio	Lower	Upper
164	100		
162	105.8	86.1	129.1
160	46.9	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





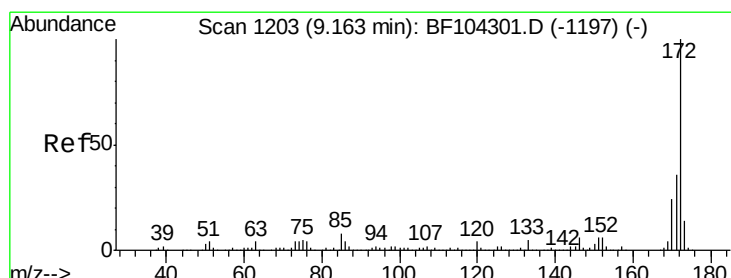
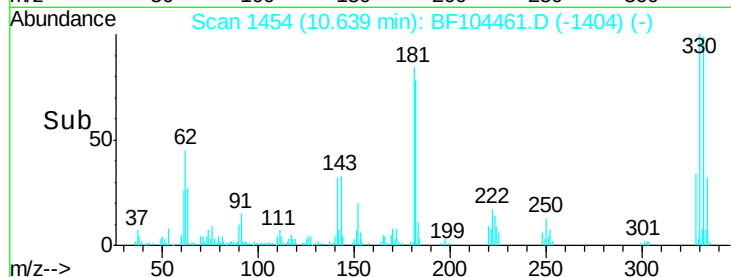
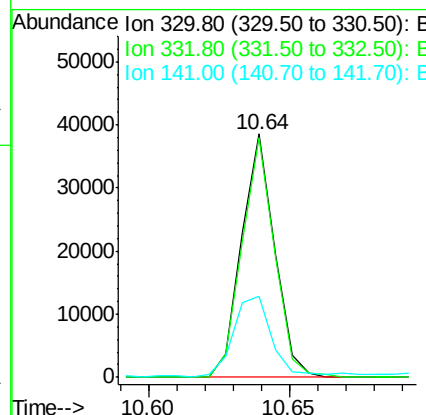
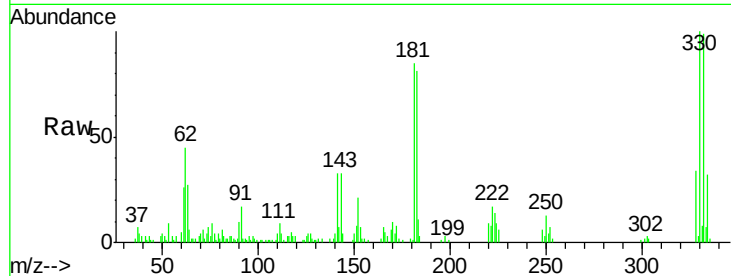
#41
 2,4,6-Tribromophenol
 Concen: 19.203 ng
 RT: 10.64 min Scan# 1454
 Delta R.T. -0.01 min
 Lab File: BF104461.D
 Acq: 12 Apr 2018 19:49

Instrument :
 BNA_F
 ClientSampled :
 S1

Tot Ion	Ratio	Resp	Lower	Upper
330	100	31235		
332	97.6	77.0	115.6	
141	39.9	29.9	44.9	

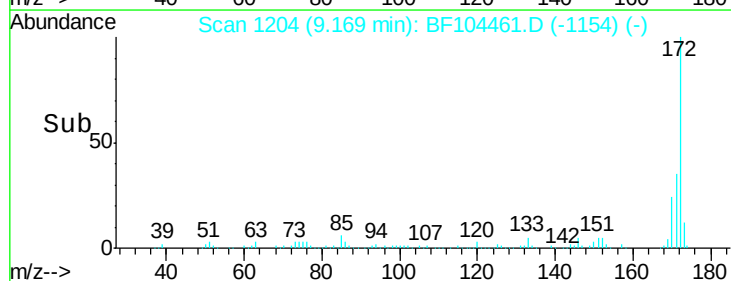
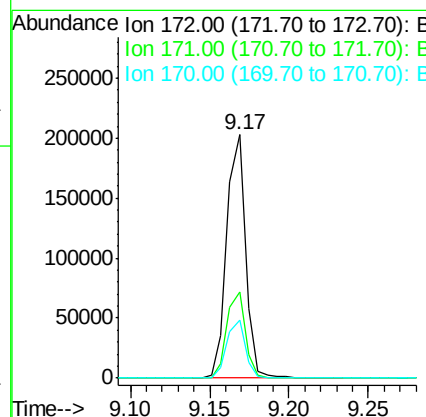
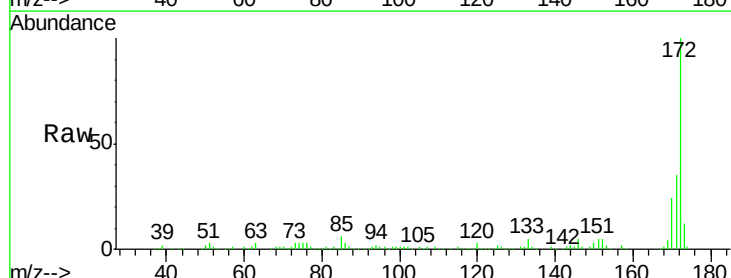
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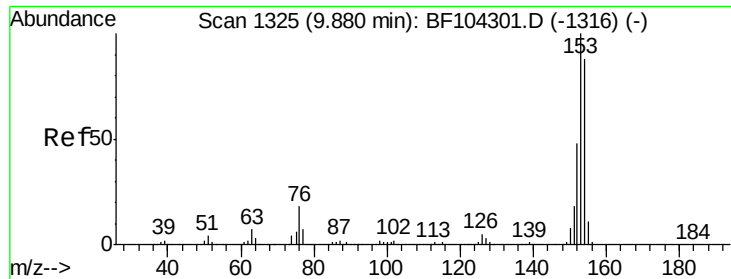
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#44
 2-Fluorobiphenyl
 Concen: 16.889 ng
 RT: 9.17 min Scan# 1204
 Delta R.T. -0.01 min
 Lab File: BF104461.D
 Acq: 12 Apr 2018 19:49

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	167635		
171	35.4	29.7	44.5	
170	23.8	19.6	29.4	





#51

Acenaphthene

Concen: 13.423 ng

RT: 9.88 min Scan# 1325

Delta R.T. -0.01 min

Lab File: BF104461.D

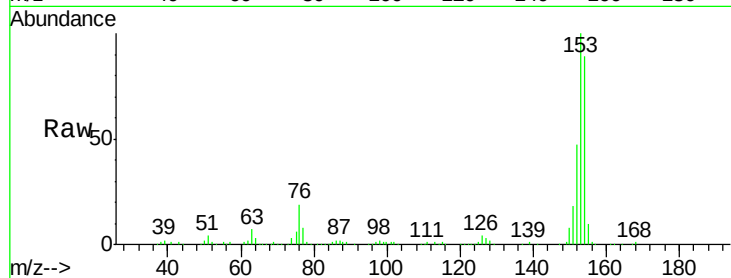
Acq: 12 Apr 2018 19:49

Instrument :

BNA_F

ClientSampleId :

S1



Tot Ion:154 Resp: 133698

Ion Ratio Lower Upper

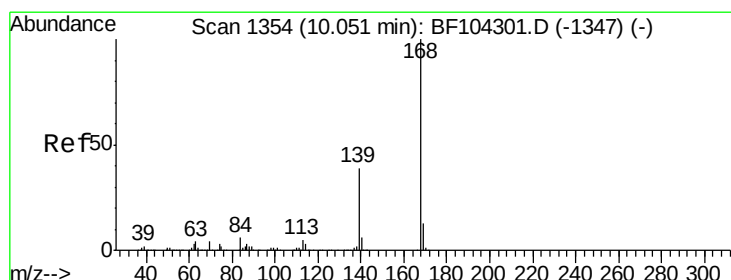
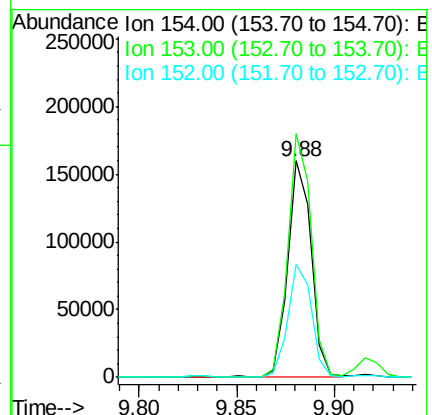
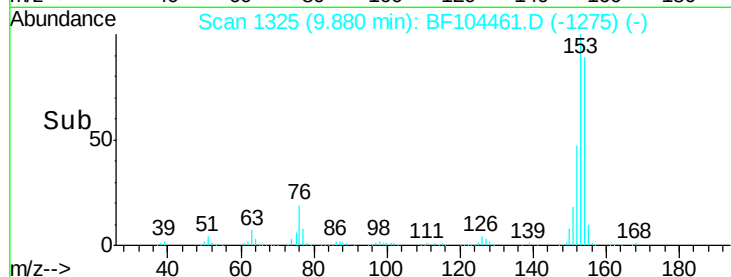
154 100

153 112.5 91.2 136.8

152 52.5 43.8 65.8

Manual Integrations
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#54

Dibenzofuran

Concen: 7.579 ng

RT: 10.06 min Scan# 1355

Delta R.T. 0.00 min

Lab File: BF104461.D

Acq: 12 Apr 2018 19:49

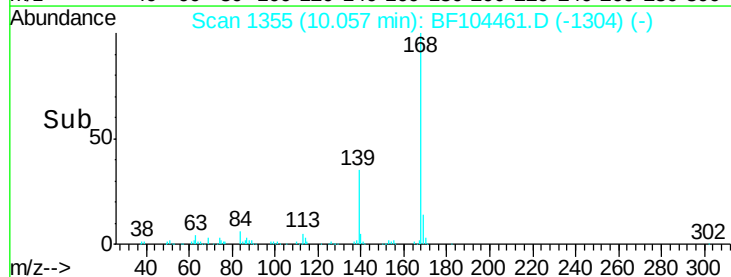
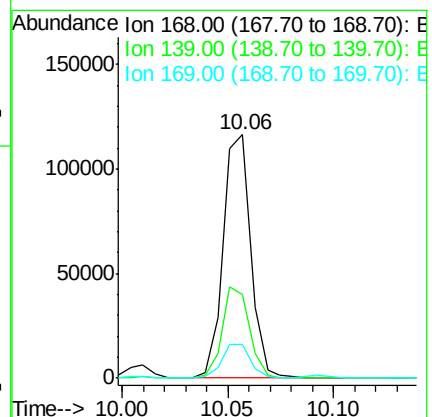
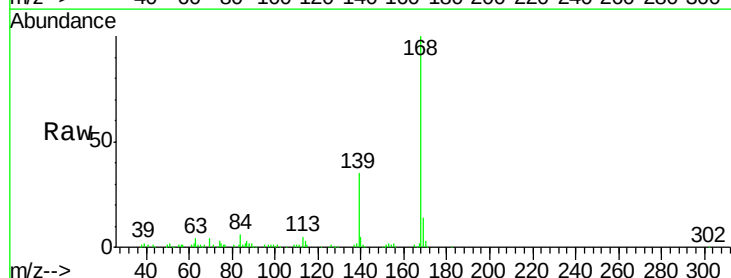
Tgt Ion:168 Resp: 105200

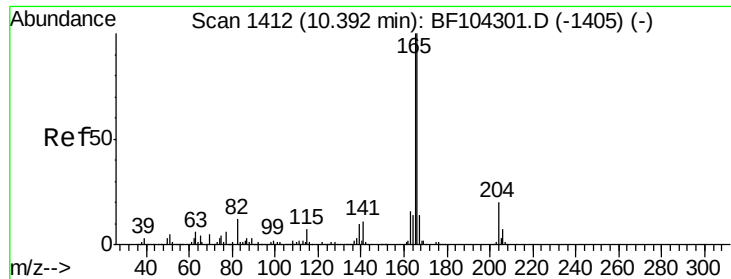
Ion Ratio Lower Upper

168 100

139 34.6 30.1 45.1

169 13.7 10.9 16.3





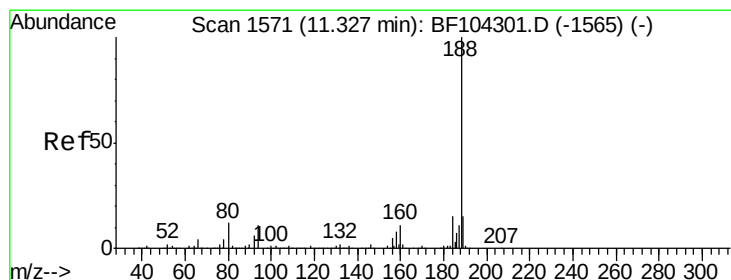
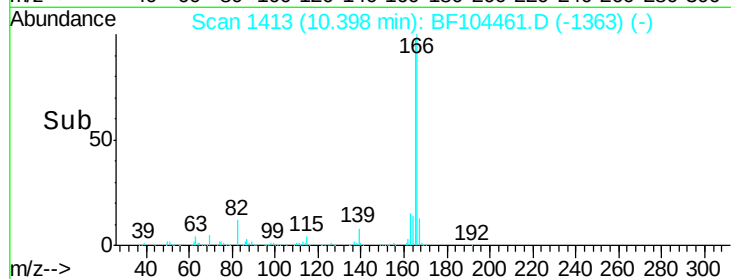
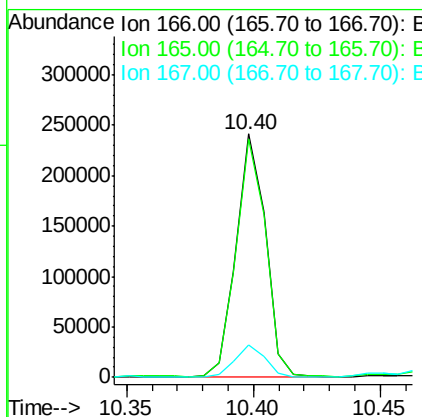
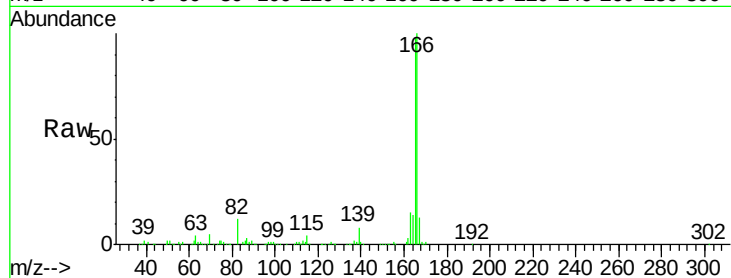
#57
Fluorene
Concen: 19.209 ng
RT: 10.40 min Scan# 1413
Delta R.T. -0.01 min
Lab File: BF104461.D
Acq: 12 Apr 2018 19:49

Instrument :
BNA_F
ClientSampleId :
S1

Tot Ion	Ratio	Resp	Lower	Upper
166	100	194076		
165	98.0	79.8	119.8	
167	13.2	10.6	16.0	

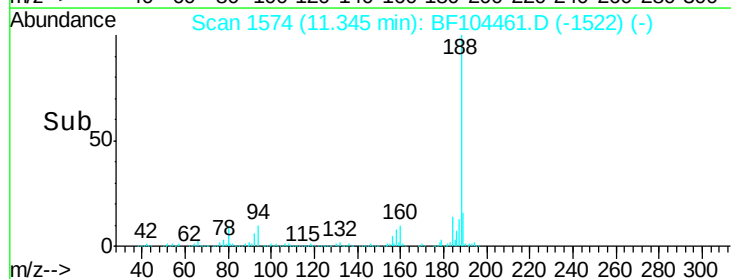
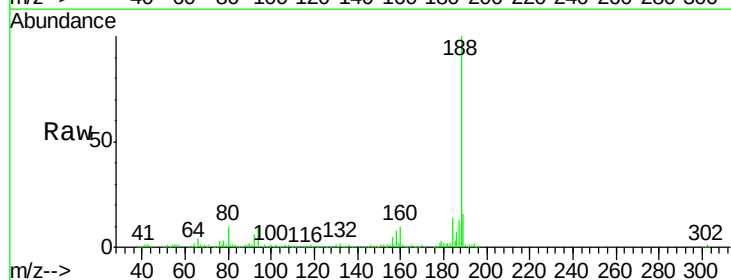
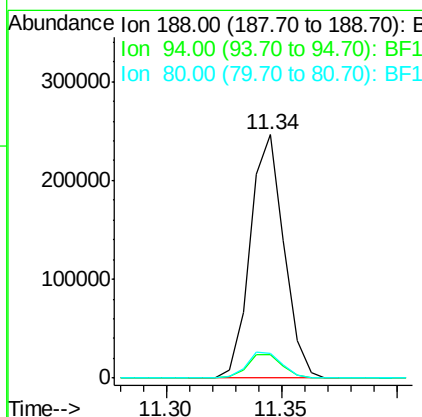
Manual Integrations
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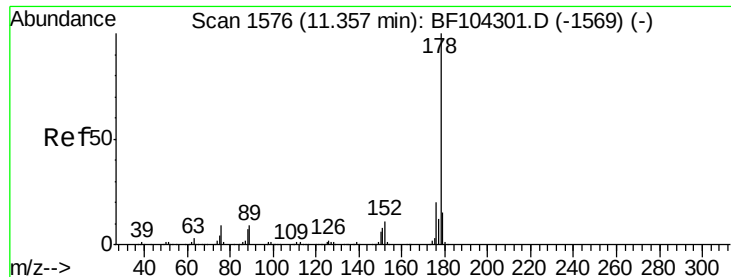
Sohil
4/13/2018 4:44:24 PM



#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.34 min Scan# 1574
Delta R.T. 0.01 min
Lab File: BF104461.D
Acq: 12 Apr 2018 19:49

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	251524		
94	9.7	8.5	12.7	
80	10.3	9.2	13.8	





#70

Phenanthrene

Concen: 141.825 ng

RT: 11.37 min Scan# 1579

Delta R.T. 0.01 min

Lab File: BF104461.D

Acq: 12 Apr 2018 19:49

Instrument :

BNA_F

ClientSampled :

S1

Tot Ion:178 Resp: 1986568

Ion Ratio Lower Upper

178 100

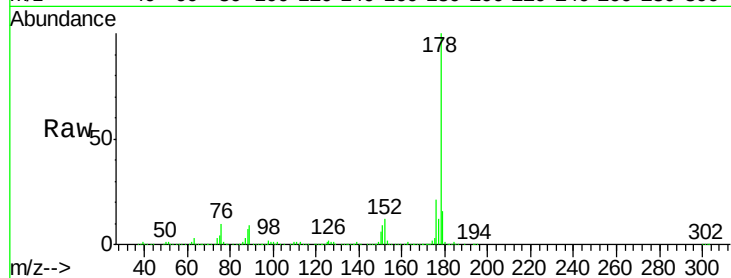
176 20.6 15.8 23.8

179 16.2 13.0 19.6

Manual Integrations
APPROVED

Sohil

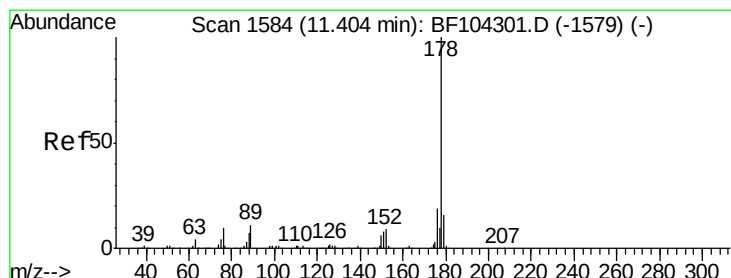
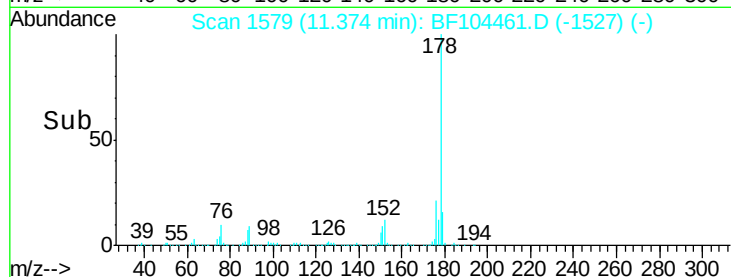
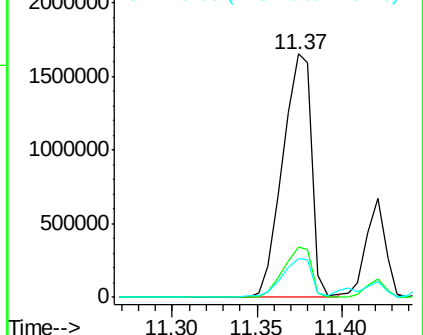
4/13/2018 4:44:24 PM



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: 37.034 ng

RT: 11.42 min Scan# 1587

Delta R.T. 0.00 min

Lab File: BF104461.D

Acq: 12 Apr 2018 19:49

Tgt Ion:178 Resp: 527302

Ion Ratio Lower Upper

178 100

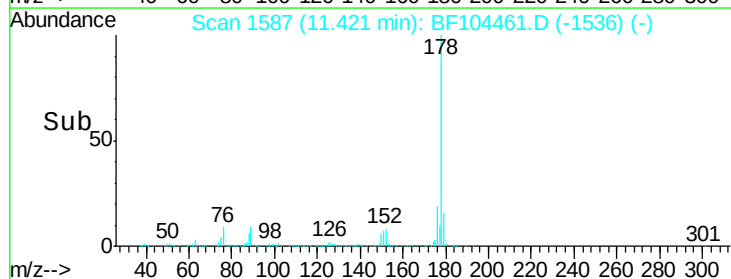
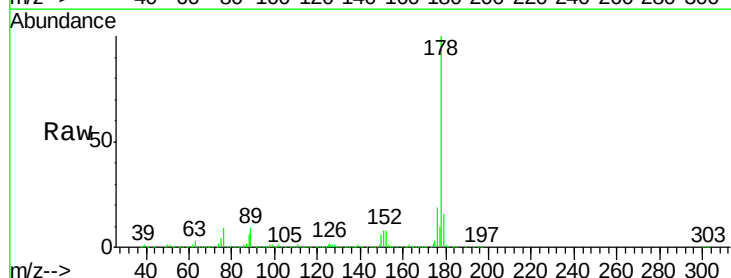
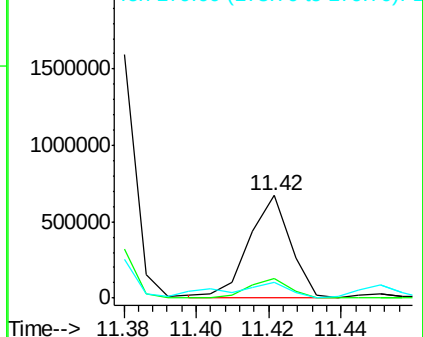
176 18.7 15.4 23.2

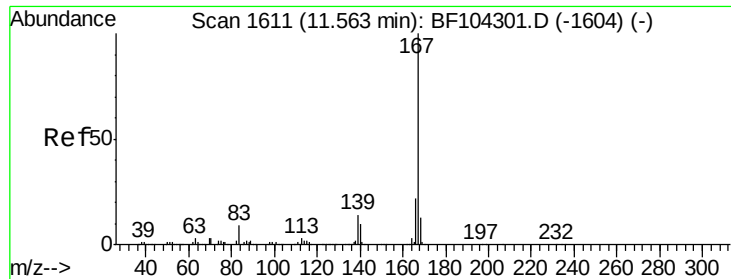
179 15.6 12.6 19.0

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: 35.366 ng

RT: 11.57 min Scan# 1613

Delta R.T. 0.00 min

Lab File: BF104461.D

Acq: 12 Apr 2018 19:49

Instrument :

BNA_F

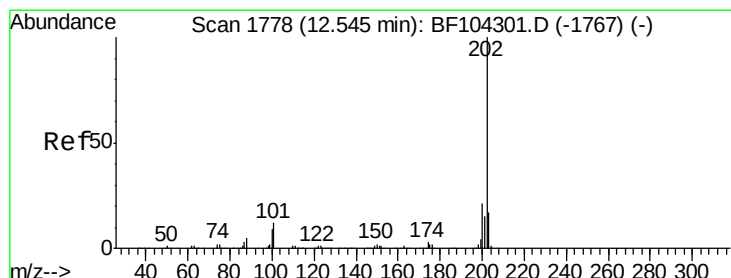
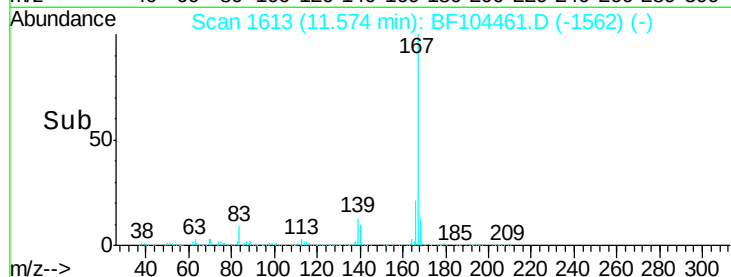
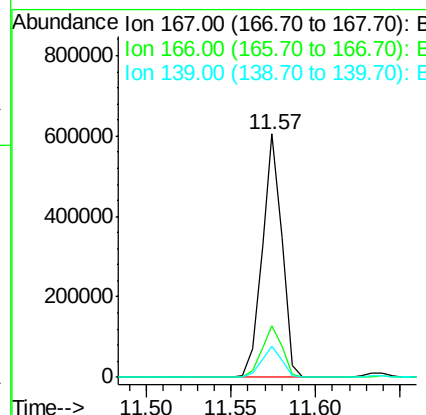
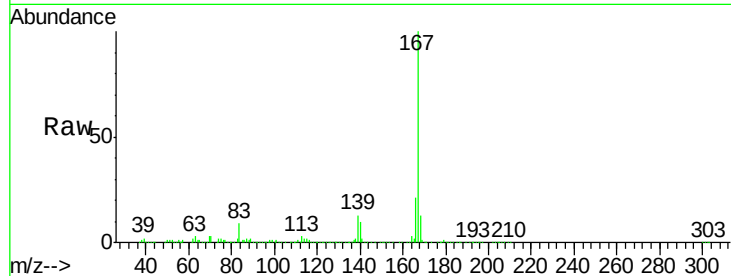
ClientSampled :

S1

Tot Ion:	167	Resp:	492064
Ion Ratio	Lower	Upper	
167	100		
166	21.4	17.6	26.4
139	13.0	10.9	16.3

Manual Integrations
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Sohil
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#74

Fluoranthene

Concen: 186.410 ng

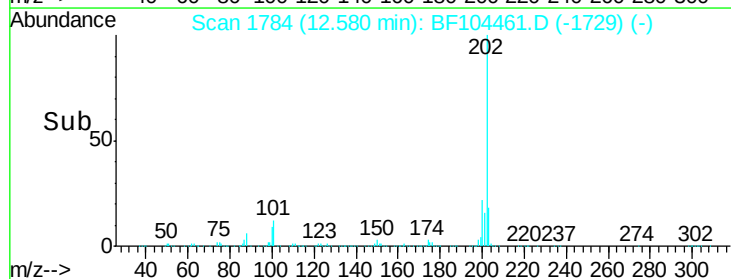
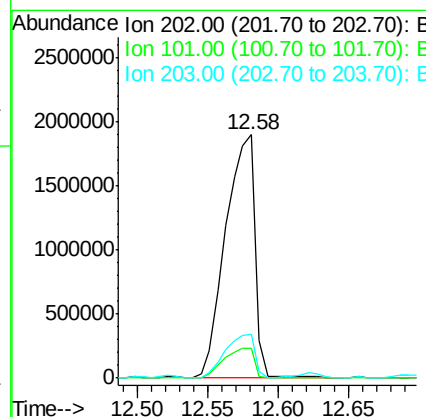
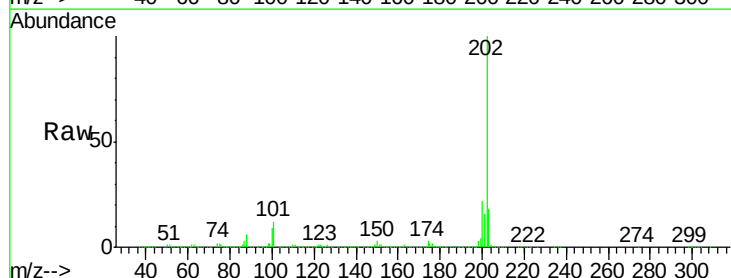
RT: 12.58 min Scan# 1784

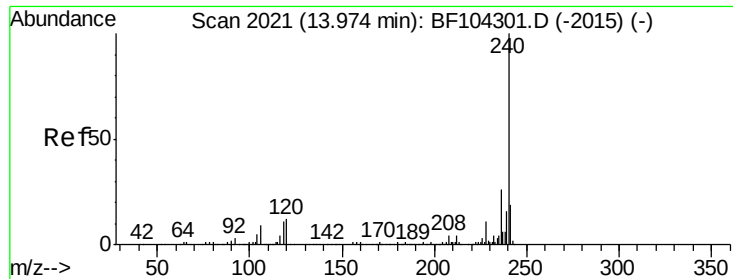
Delta R.T. 0.02 min

Lab File: BF104461.D

Acq: 12 Apr 2018 19:49

Tgt Ion:	202	Resp:	2728074
Ion Ratio	Lower	Upper	
202	100		
101	12.1	0.0	34.1
203	18.2	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.00 min Scan# 2026

Delta R.T. 0.01 min

Lab File: BF104461.D

Acq: 12 Apr 2018 19:49

Instrument :

BNA_F

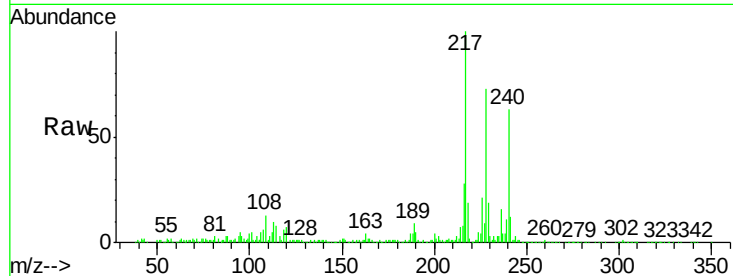
ClientSampled :

S1

Tot Ion	Ratio	Lower	Upper
240	100		
120	11.9	9.5	14.3
236	25.7	20.7	31.1

Manual Integrations
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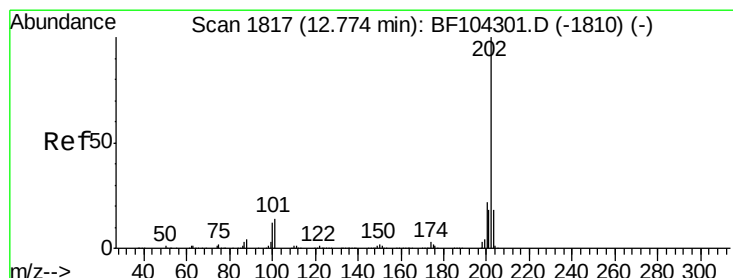
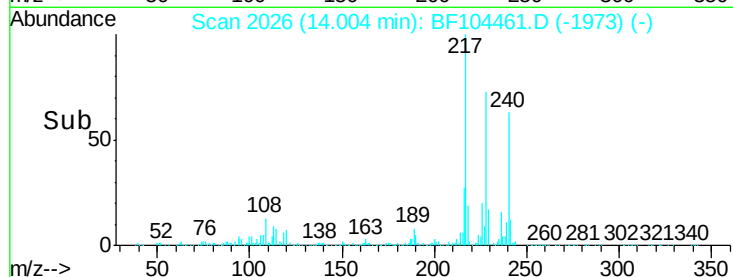
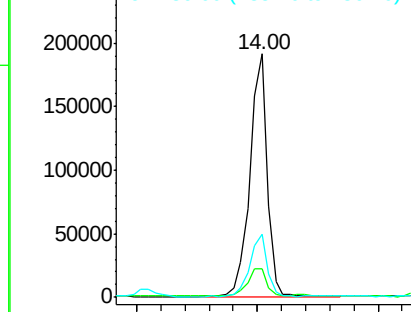


Abundance

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

Pyrene

Concen: 168.864 ng

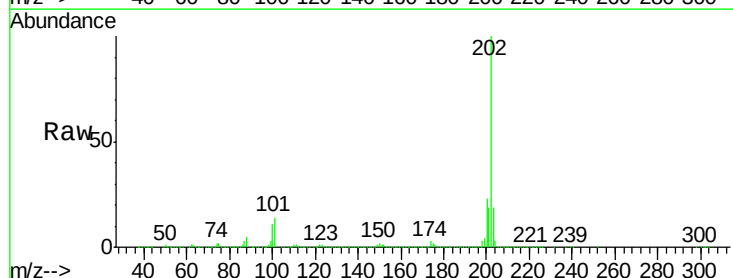
RT: 12.81 min Scan# 1823

Delta R.T. 0.02 min

Lab File: BF104461.D

Acq: 12 Apr 2018 19:49

Tgt Ion	Ratio	Lower	Upper
202	100		
200	22.5	17.4	26.2
203	19.4	14.3	21.5

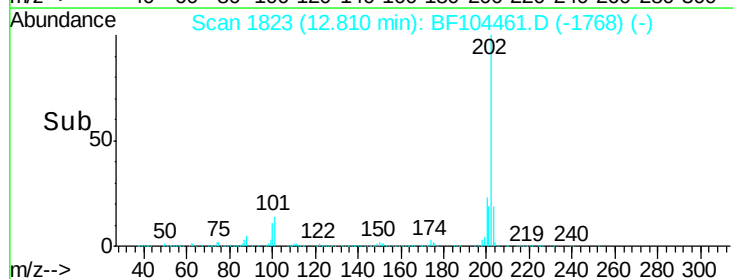
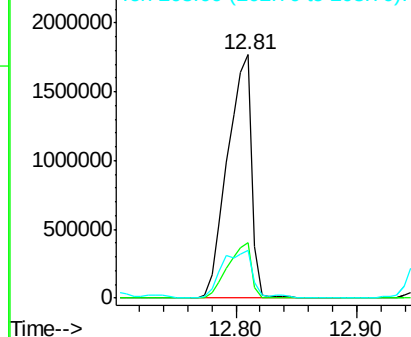


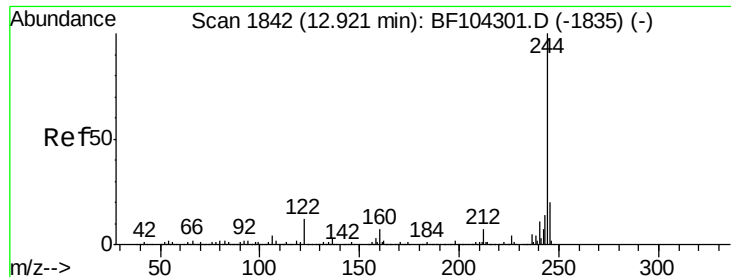
Abundance

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





#78

Terphenyl-d14

Concen: 16.278 ng

RT: 12.93 min Scan# 1843

Delta R.T. -0.01 min

Lab File: BF104461.D

Acq: 12 Apr 2018 19:49

Instrument :

BNA_F

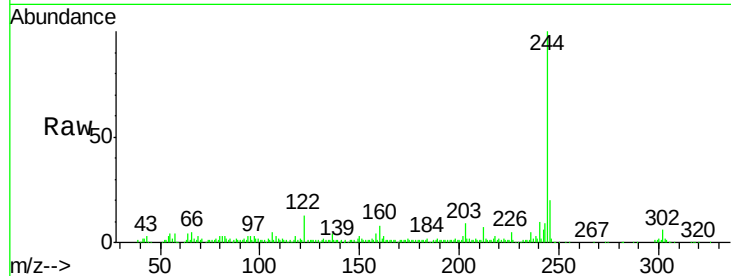
ClientSampled :

S1

Tot Ion:	244	Resp:	138411
Ion Ratio	Lower	Upper	
244	100		
212	7.1	5.4	8.0
122	13.4	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

12.93

150000

100000

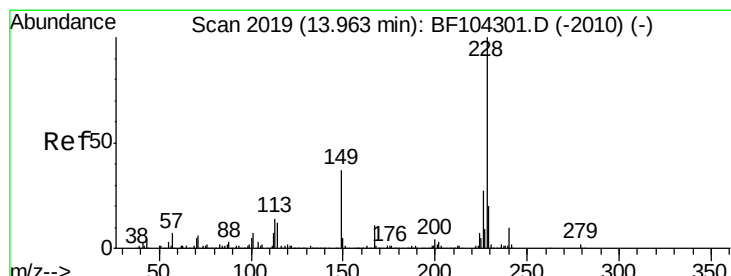
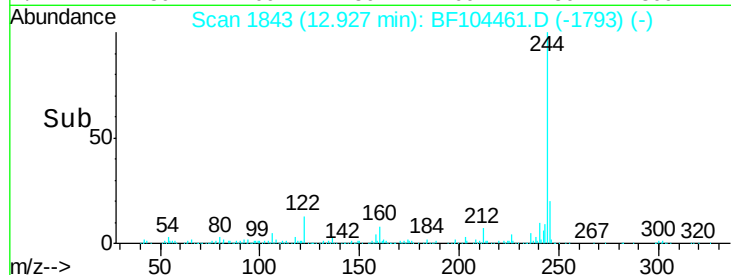
50000

0

12.90

12.95

Time-->



#80

Benzo(a)anthracene

Concen: 119.295 ng

RT: 13.99 min Scan# 2024

Delta R.T. 0.01 min

Lab File: BF104461.D

Acq: 12 Apr 2018 19:49

Tgt Ion:	228	Resp:	1381554
Ion Ratio	Lower	Upper	
228	100		
226	28.2	22.6	33.8
229	21.3	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

13.99

1500000

1000000

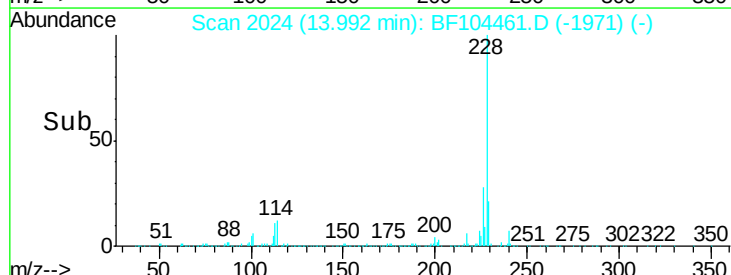
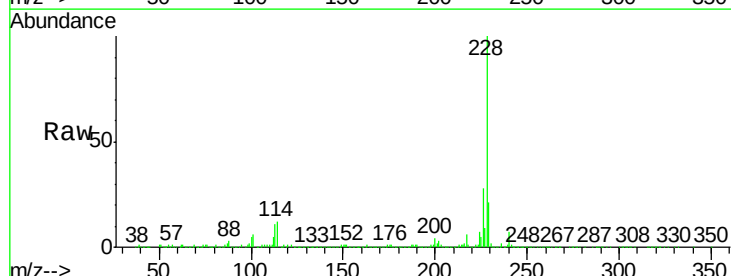
500000

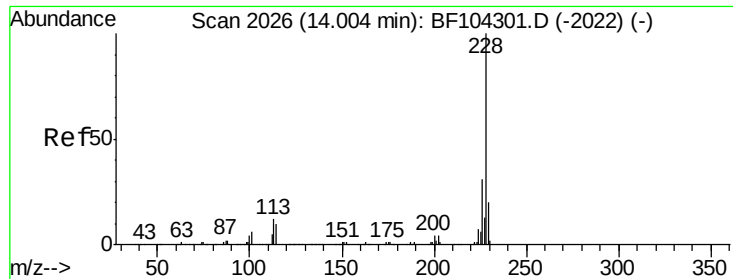
0

13.95

14.00

Time-->





#82

Chrysene

Concen: 116.592 ng/mL

RT: 14.03 min Scan# 2031

Delta R.T. 0.01 min

Lab File: BF104461.D

Acq: 12 Apr 2018 19:49

Instrument :

BNA_F

ClientSampleId :

S1

Tot Ion:228 Resp: 1386916

Ion	Ratio	Lower	Upper
228	100		
226	32.0	25.0	37.6
229	23.2	16.2	24.4

228 100

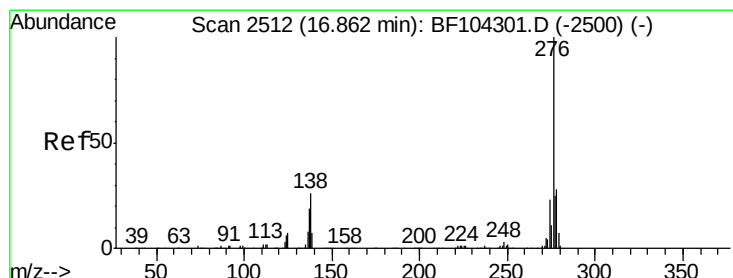
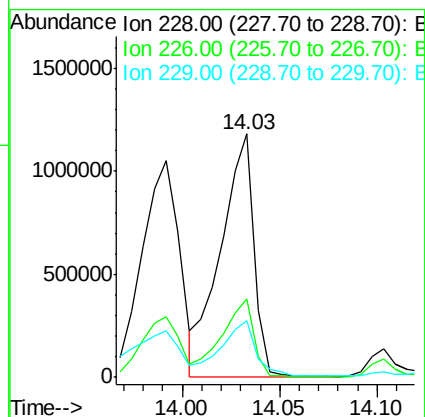
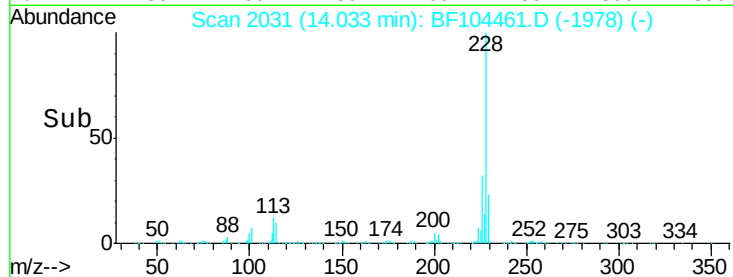
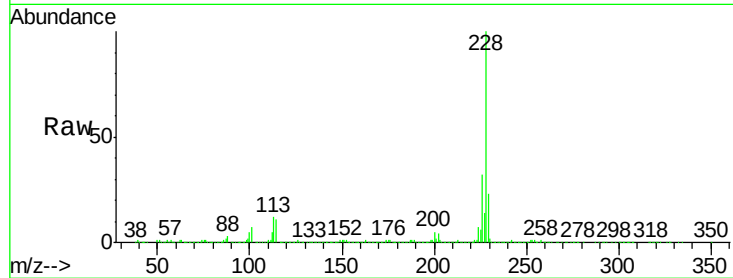
226 32.0 25.0 37.6

229 23.2 16.2 24.4

Manual Integrations
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#85

Indeno(1,2,3-cd)pyrene

Concen: 56.503 ng/mL

RT: 16.94 min Scan# 2525

Delta R.T. 0.02 min

Lab File: BF104461.D

Acq: 12 Apr 2018 19:49

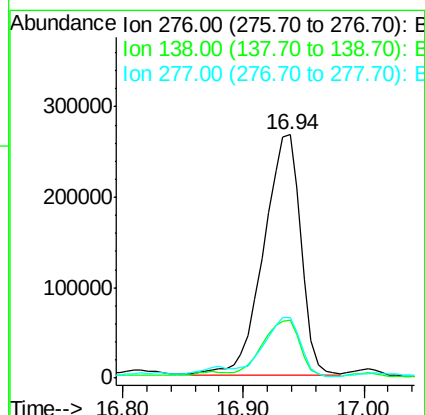
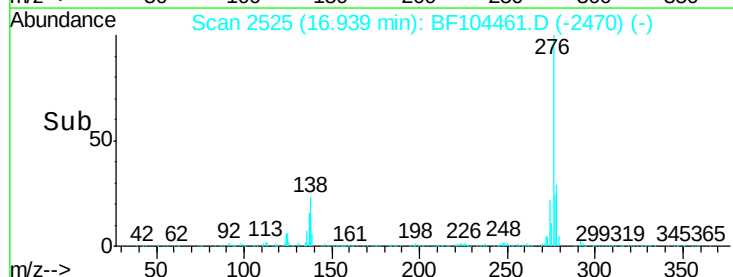
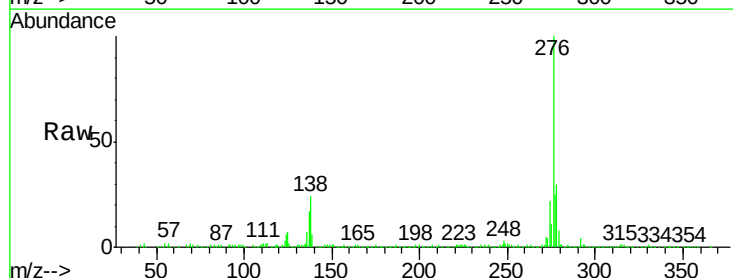
Tgt Ion:276 Resp: 570966

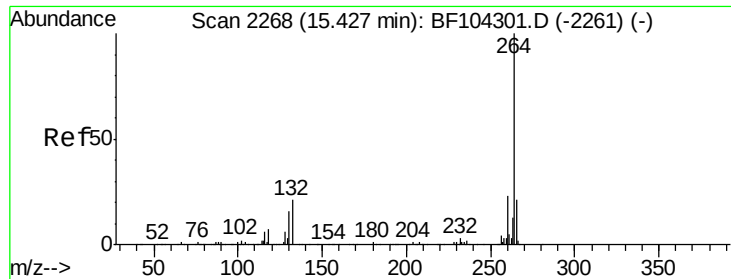
Ion	Ratio	Lower	Upper
276	100		
138	5.0	25.0	37.6#
277	4.9	20.1	30.1#

276 100

138 5.0 25.0 37.6#

277 4.9 20.1 30.1#





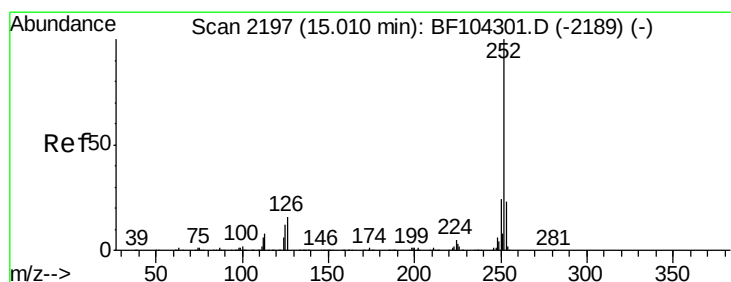
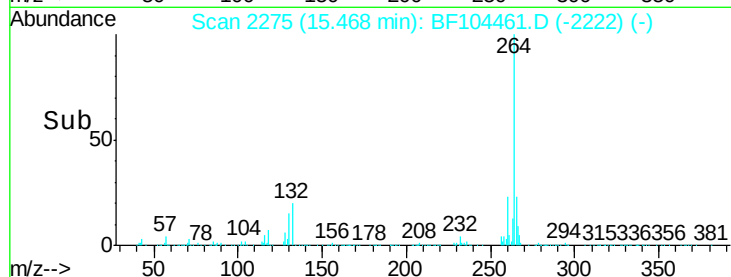
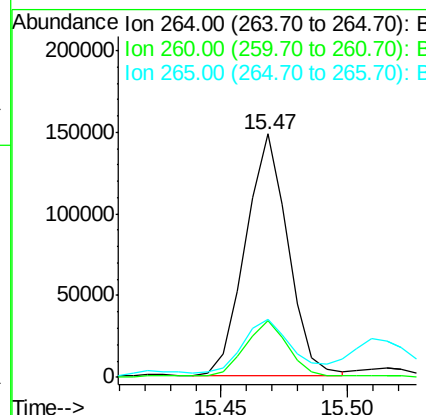
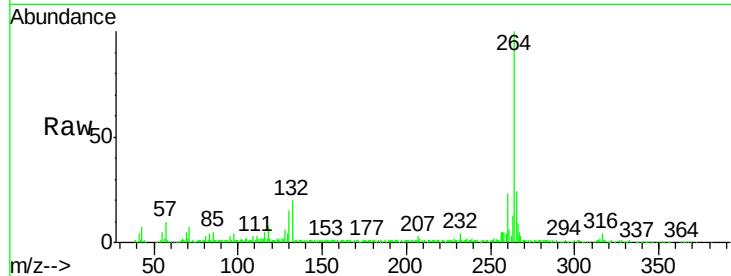
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.47 min Scan# 2275
Delta R.T. 0.01 min
Lab File: BF104461.D
Acq: 12 Apr 2018 19:49

Instrument :
BNA_F
ClientSampleId :
S1

Tot Ion	Ratio	Lower	Upper
264	100		
260	23.4	19.2	28.8
265	23.8	17.5	26.3

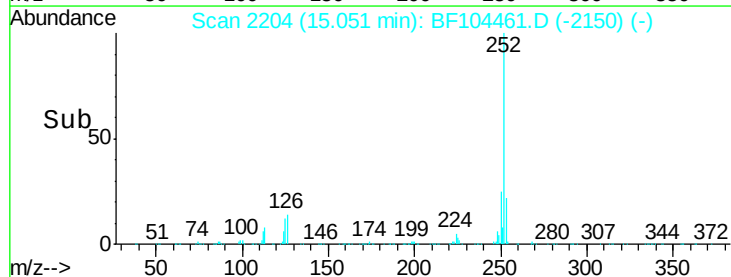
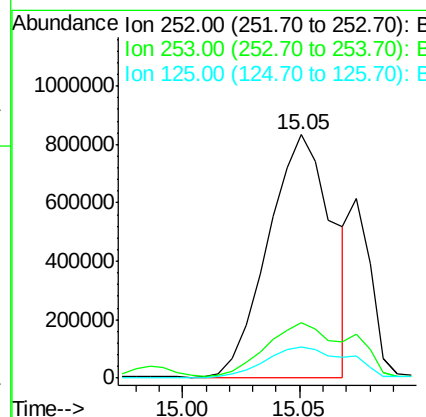
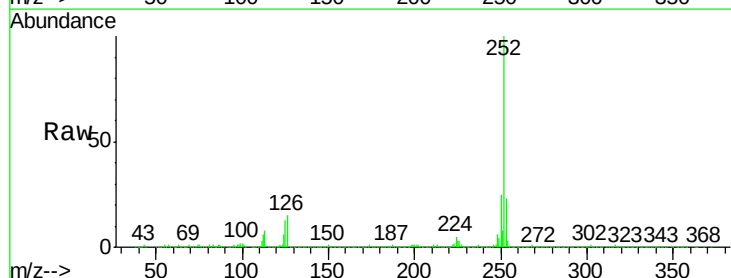
Manual Integrations
APPROVED

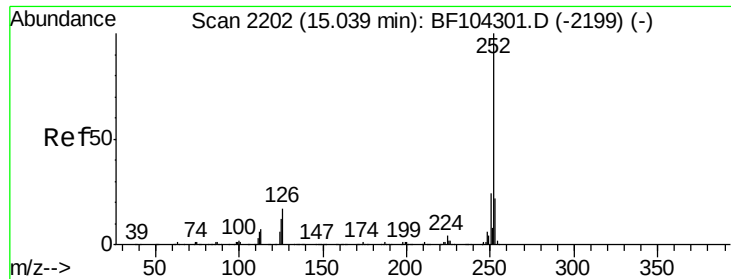
Sohil
4/13/2018 4:44:24 PM



#87
Benzo(b)fluoranthene
Concen: 146.127 ng m
RT: 15.05 min Scan# 2204
Delta R.T. 0.02 min
Lab File: BF104461.D
Acq: 12 Apr 2018 19:49

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.0	25.6
125	12.8	9.0	13.6





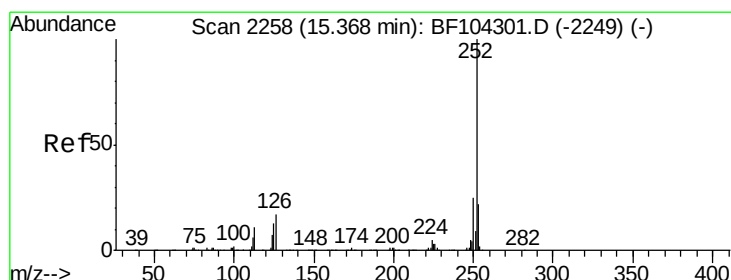
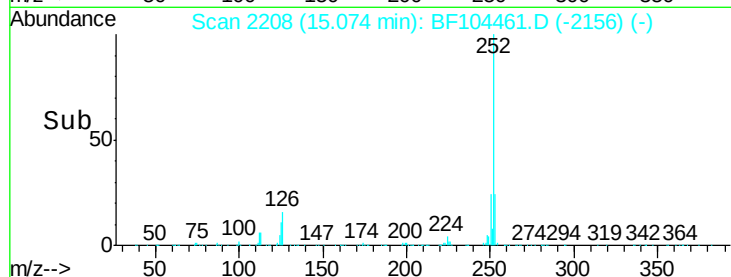
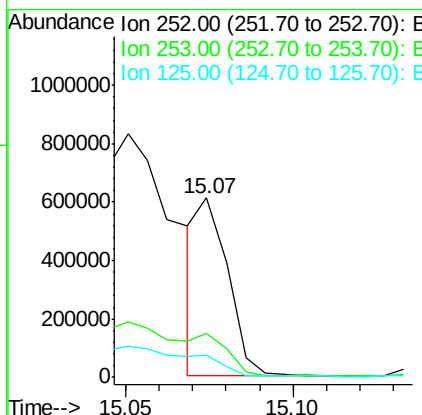
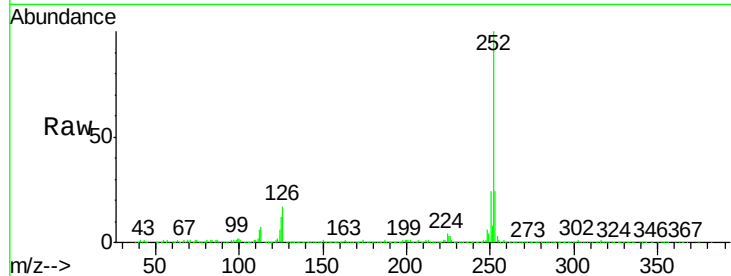
#88
Benzo(k)fluoranthene
Concen: 36.937 ng m
RT: 15.07 min Scan# 2208
Delta R.T. 0.01 min
Lab File: BF104461.D
Acq: 12 Apr 2018 19:49

Instrument :
BNA_F
ClientSampled :
S1

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.4	17.9	26.9
125	12.1	10.2	15.2

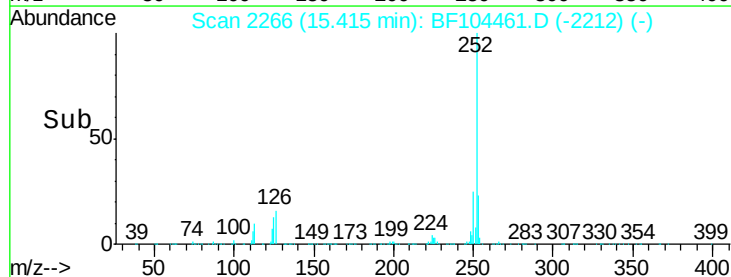
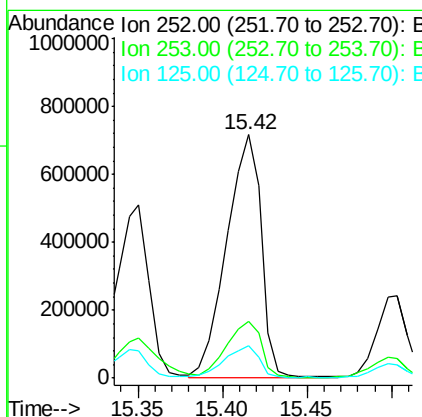
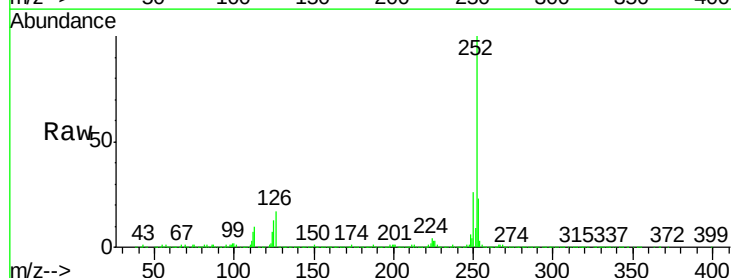
Manual Integrations
APPROVED

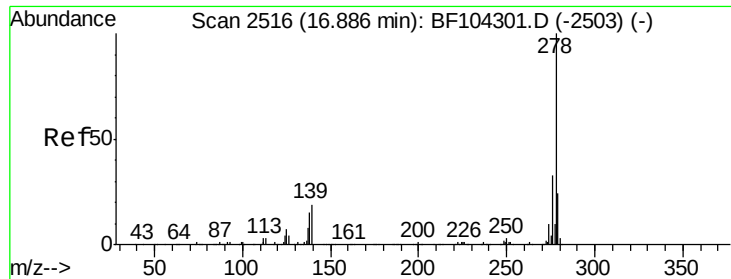
Sohil
4/13/2018 4:44:24 PM



#89
Benzo(a)pyrene
Concen: 103.972 ng
RT: 15.42 min Scan# 2266
Delta R.T. 0.02 min
Lab File: BF104461.D
Acq: 12 Apr 2018 19:49

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.4	17.1	25.7
125	13.3	9.8	14.6





#90

Dibenzo(a,h)anthracene

Concen: 18.035 ng

RT: 16.94 min Scan# 2525

Delta R.T. 0.01 min

Lab File: BF104461.D

Acq: 12 Apr 2018 19:49

Instrument :

BNA_F

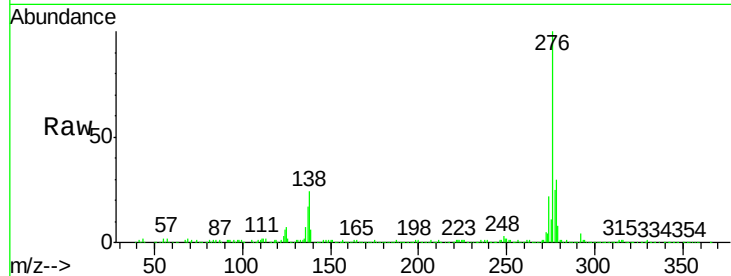
ClientSampled :

S1

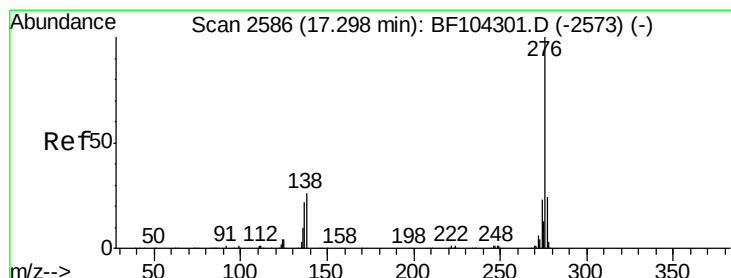
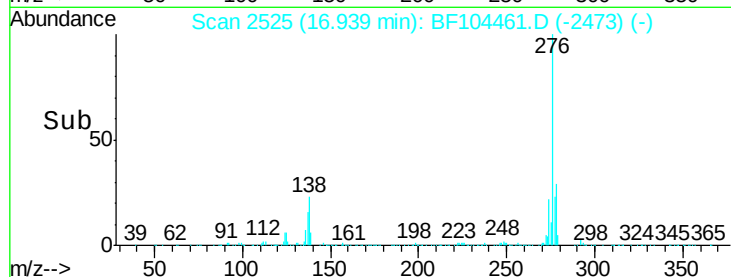
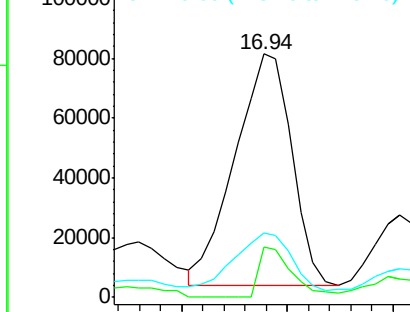
Tot Ion:	278	Resp:	144500
Ion Ratio	Lower	Upper	
278	100		
139	20.6	15.9	23.9
279	26.4	19.0	28.4

Manual Integrations
APPROVED

Sohil
4/13/2018 4:44:24 PM



Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E



#91

Benzo(g,h,i)perylene

Concen: 68.355 ng

RT: 17.38 min Scan# 2600

Delta R.T. 0.02 min

Lab File: BF104461.D

Acq: 12 Apr 2018 19:49

Tgt Ion:	276	Resp:	530604
Ion Ratio	Lower	Upper	
276	100		
277	24.0	17.9	26.9
138	24.8	21.8	32.8

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

