

Data Path : Z:\HPCHEM1\BNA F\DATA\BF050218\
 Data File : BF105022.D
 Acq On : 2 May 2018 11:24
 Operator : JU/SJ
 Sample : J2157-13 2X
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 CL-02-043018-A

Manual Integrations
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Sohil
 5/3/2018 5:00:41 PM

Quant Time: May 03 07:32:48 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040618.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 02 17:25:18 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.79	152	93464	20.00	ng	0.00
21) Naphthalene-d8	8.07	136	391889	20.00	ng	0.00
38) Acenaphthene-d10	9.83	164	178914	20.00	ng	0.00
63) Phenanthrene-d10	11.32	188	303209	20.00	ng	0.00
75) Chrysene-d12	14.02	240	177633	20.00	ng	-0.01
86) Perylene-d12	15.56	264	205536	20.00	ng	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.39	112	294734	48.22	ng	-0.01
7) Phenol-d6	6.42	99	372728	49.63	ng	-0.02
23) Nitrobenzene-d5	7.35	82	220839	36.80	ng	-0.02
41) 2,4,6-Tribromophenol	10.62	330	95701	51.57	ng	-0.01
44) 2-Fluorobiphenyl	9.15	172	460882	40.69	ng	-0.01
78) Terphenyl-d14	12.91	244	367515	47.17	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.09	128	100482	5.149	ng	99
37) 2-Methylnaphthalene	8.79	142	57937	4.590	ng	99
48) Acenaphthylene	9.69	152	274815	14.754	ng	99
49) Dimethylphthalate	9.55	163	39400	2.793	ng	100
51) Acenaphthene	9.86	154	149669	13.170	ng	99
54) Dibenzofuran	10.03	168	152868	9.652	ng	98
57) Fluorene	10.37	166	214917	18.643	ng	96
70) Phenanthrene	11.36	178	2169435	128.479	ng	99
71) Anthracene	11.40	178	531332	30.956	ng	98
72) Carbazole	11.56	167	251592	15.000	ng	99
74) Fluoranthene	12.56	202	2660290	150.792	ng	98
77) Pyrene	12.79	202	2189947	166.324	ng	99
80) Benzo(a)anthracene	14.01	228	1327180	125.064	ng	94
82) Chrysene	14.05	228	1288025m	118.166	ng	
85) Indeno(1,2,3-cd)pyrene	17.06	276	768160	82.959	ng	# 92
87) Benzo(b)fluoranthene	15.14	252	1809306m	139.378	ng	
88) Benzo(k)fluoranthene	15.16	252	481239m	39.267	ng	
89) Benzo(a)pyrene	15.44	252	842506m	72.536	ng	
90) Dibenzo(a,h)anthracene	17.06	278	210186m	22.033	ng	
91) Benzo(a,h,i)perylene	17.52	276	672870	72.805	ng	94

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

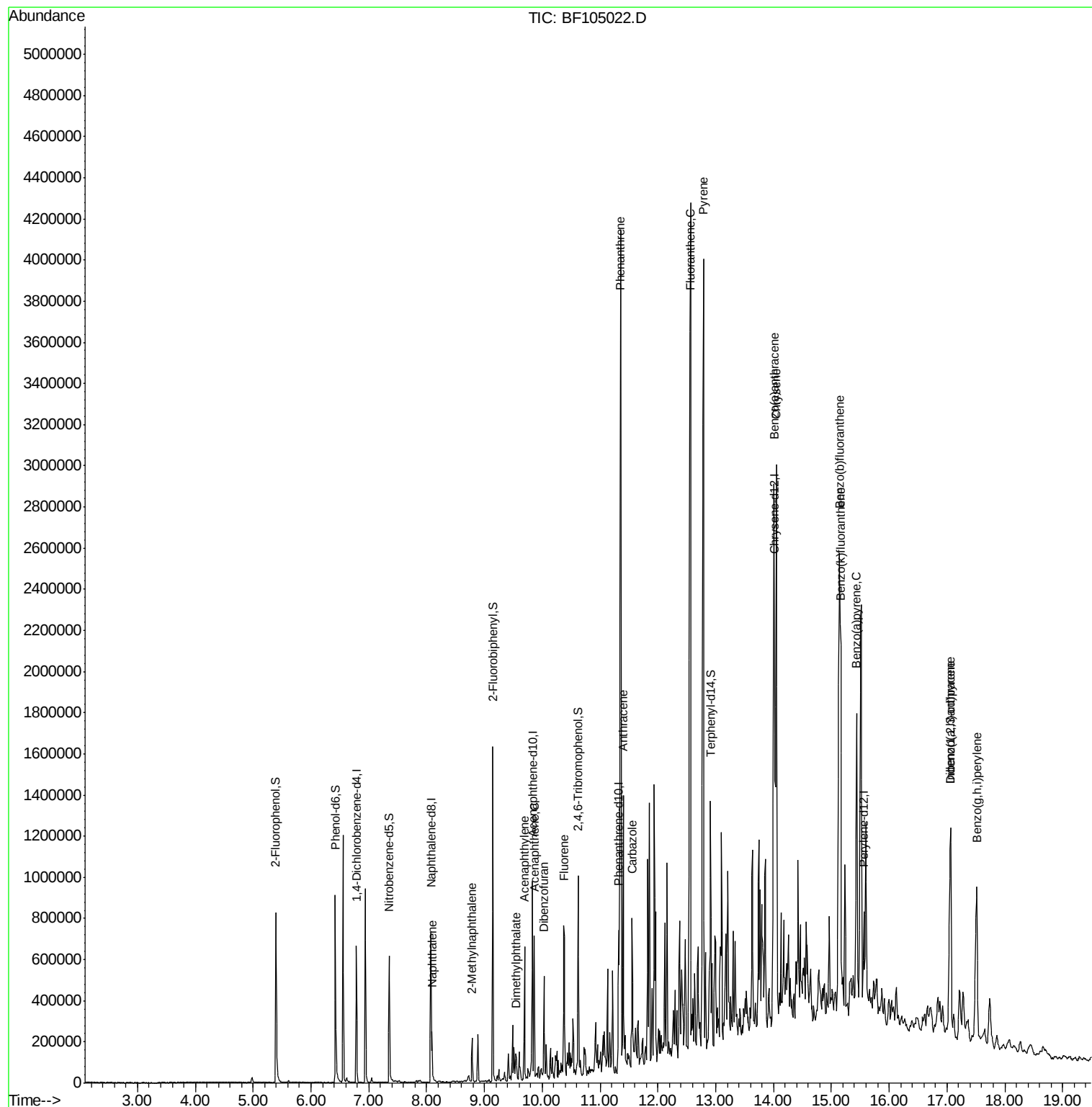
Data Path : Z:\HPCHEM1\BNA F\DATA\BF050218\
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ALS Vial : 4 Sample Multiplier: 1

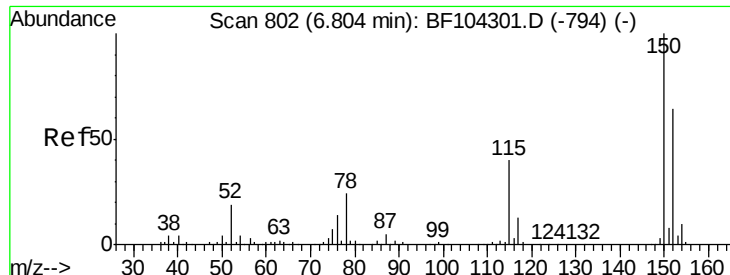
Instrument :
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CL-02-043018-A

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#1

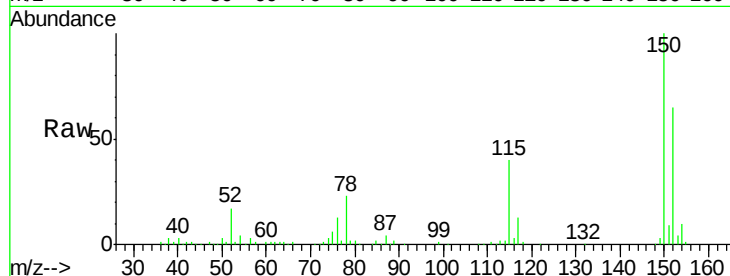
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.79 min Scan# 799
Delta R.T. 0.00 min
Lab File: BF105022.D
Acq: 2 May 2018 11:24

Instrument :
BNA_F
ClientSampleId :
CL-02-043018-A

Tot Ion	Ratio	Lower	Upper
152	100		
150	153.5	124.6	186.8
115	61.3	50.1	75.1

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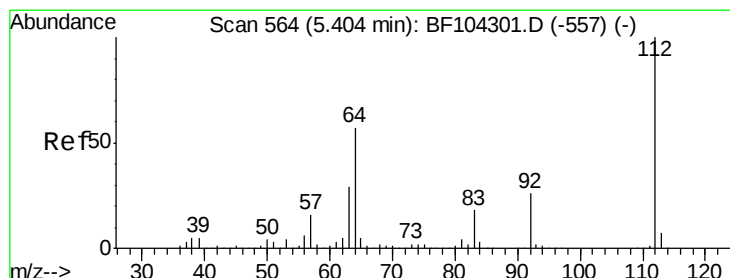
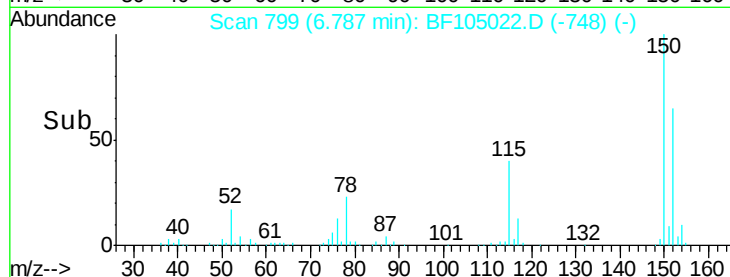
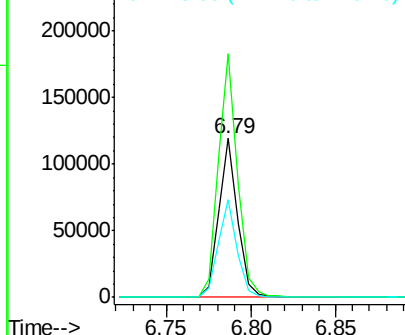


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

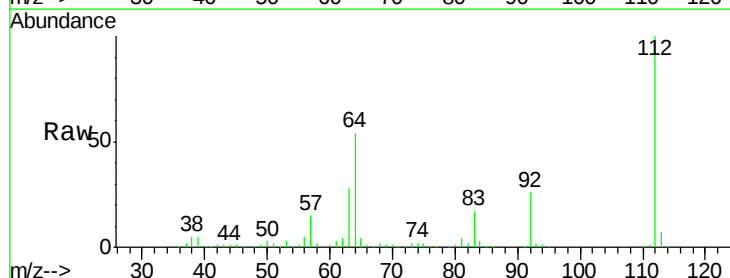
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 48.218 ng
RT: 5.39 min Scan# 562
Delta R.T. -0.01 min
Lab File: BF105022.D
Acq: 2 May 2018 11:24

Tgt Ion	Ratio	Lower	Upper
112	100		
64	53.7	47.9	71.9
63	27.7	23.7	35.5

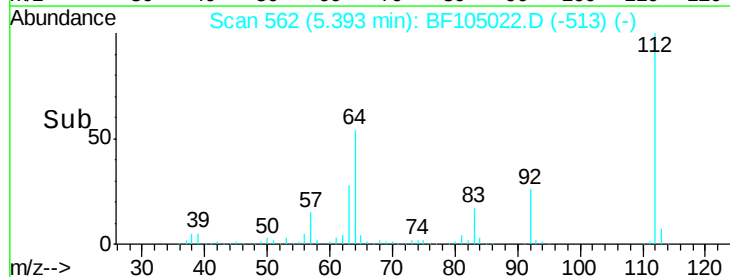
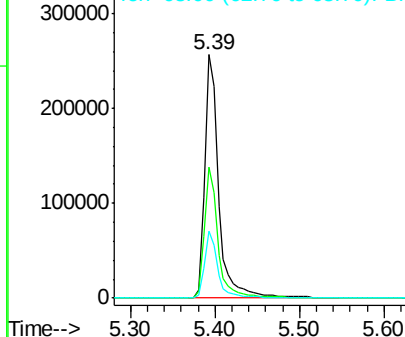


Abundance

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: 49.629 ng

RT: 6.42 min Scan# 737

Delta R.T. -0.02 min

Lab File: BF105022.D

Acq: 2 May 2018 11:24

Instrument :

BNA_F

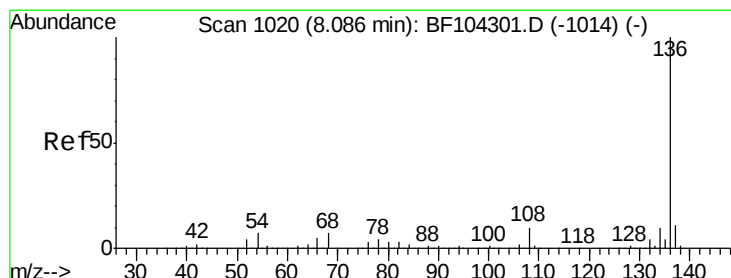
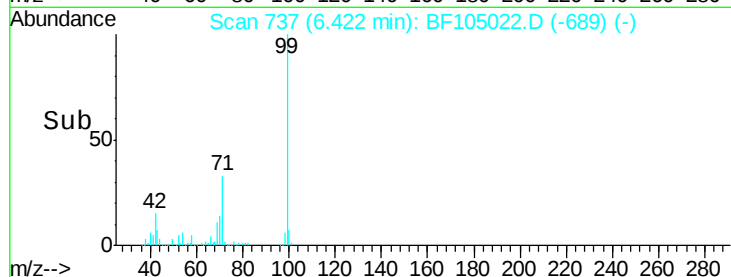
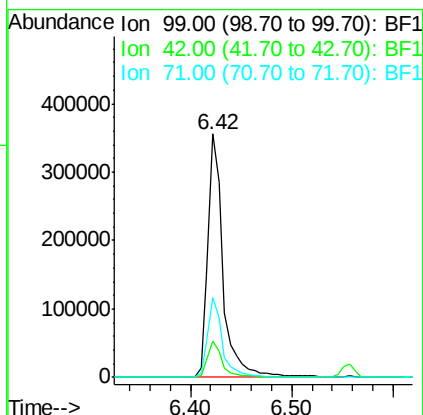
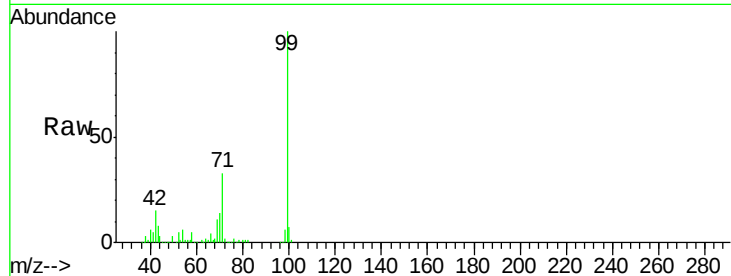
ClientSampleId :

CL-02-043018-A

Tot Ion:	99	Resp:	372728
Ion	Ratio	Lower	Upper
99	100		
42	14.8	14.5	21.7
71	32.9	25.4	38.0

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#21

Naphthalene-d8

Concen: 20.000 ng

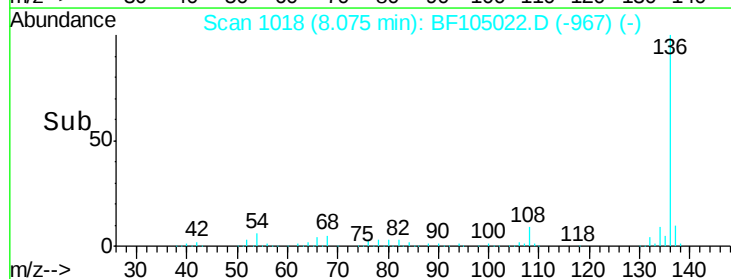
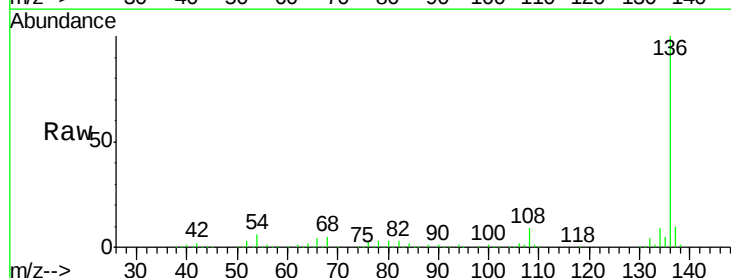
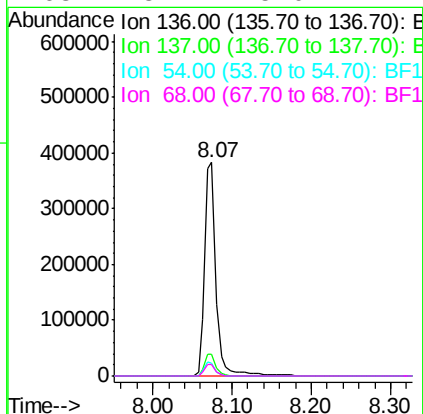
RT: 8.07 min Scan# 1018

Delta R.T. 0.00 min

Lab File: BF105022.D

Acq: 2 May 2018 11:24

Tgt Ion:	136	Resp:	391889
Ion	Ratio	Lower	Upper
136	100		
137	10.3	8.9	13.3
54	5.8	6.6	9.8#
68	5.1	5.0	7.4





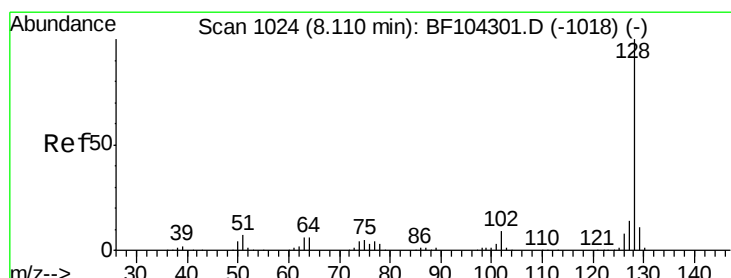
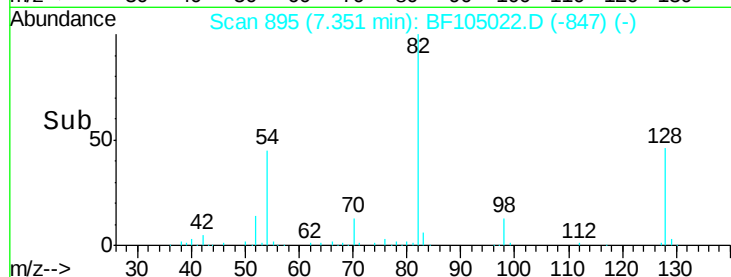
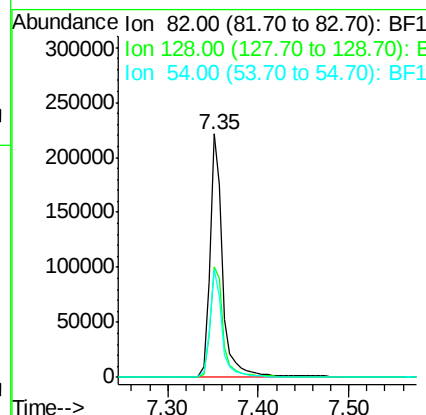
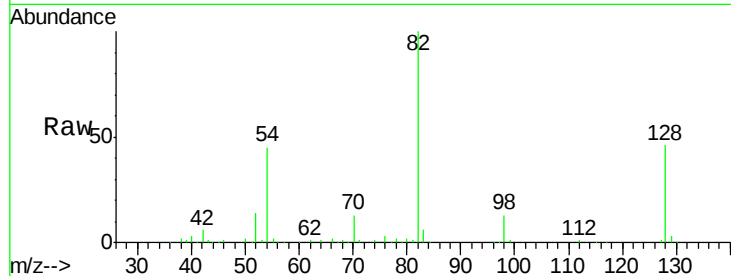
#23
Nitrobenzene-d5
Concen: 36.797 ng
RT: 7.35 min Scan# 895
Delta R.T. -0.02 min
Lab File: BF105022.D
Acq: 2 May 2018 11:24

Instrument :
BNA_F
ClientSampleId :
CL-02-043018-A

Tot Ion	82	Resp	220839
Ion Ratio	Lower	Upper	
82	100		
128	45.5	36.1	54.1
54	44.5	41.4	62.2

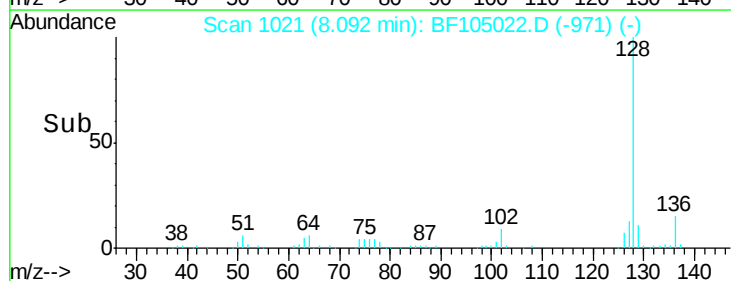
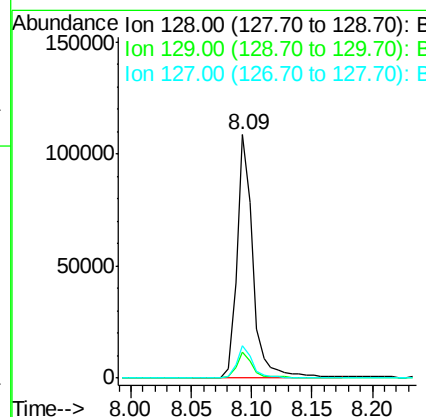
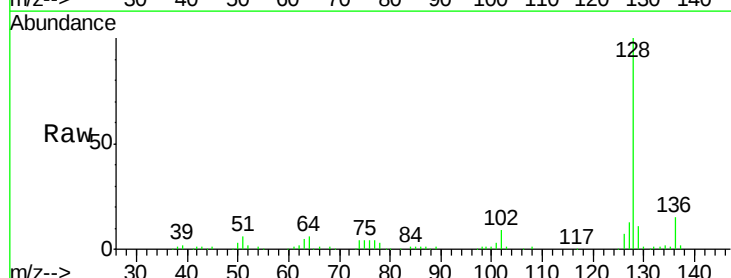
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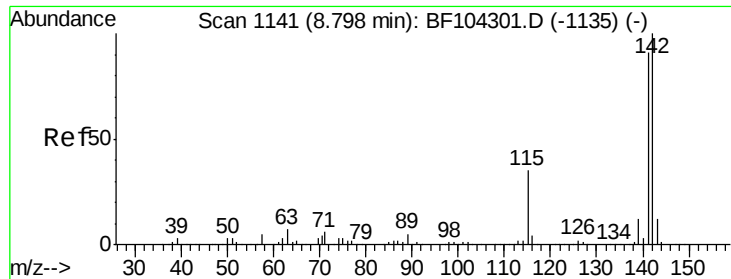
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#31
Naphthalene
Concen: 5.149 ng
RT: 8.09 min Scan# 1021
Delta R.T. -0.01 min
Lab File: BF105022.D
Acq: 2 May 2018 11:24

Tgt Ion	128	Resp	100482
Ion Ratio	Lower	Upper	
128	100		
129	10.8	8.8	13.2
127	13.3	10.9	16.3





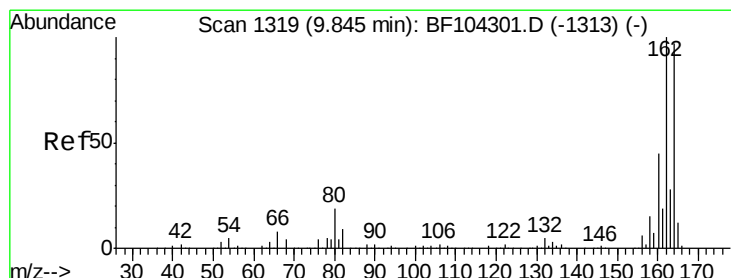
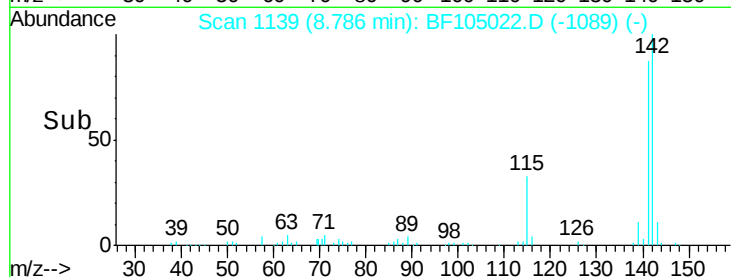
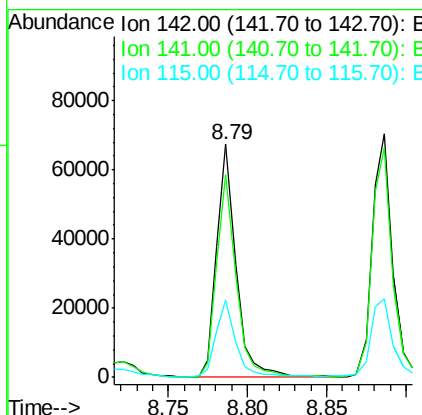
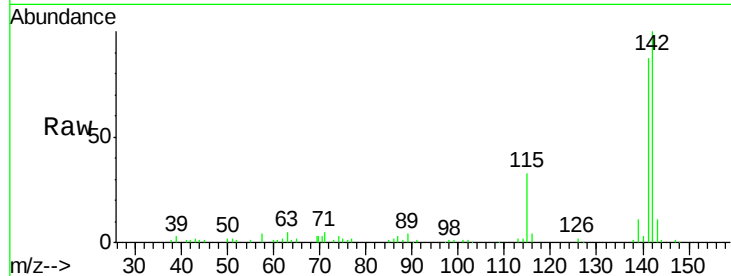
#37
2-Methylnaphthalene
Concen: 4.590 ng
RT: 8.79 min Scan# 1139
Delta R.T. -0.01 min
Lab File: BF105022.D
Acq: 2 May 2018 11:24

Instrument :
BNA_F
ClientSampleId :
CL-02-043018-A

Tot Ion	Ratio	Lower	Upper
142	100		
141	86.9	70.8	106.2
115	33.0	26.1	39.1

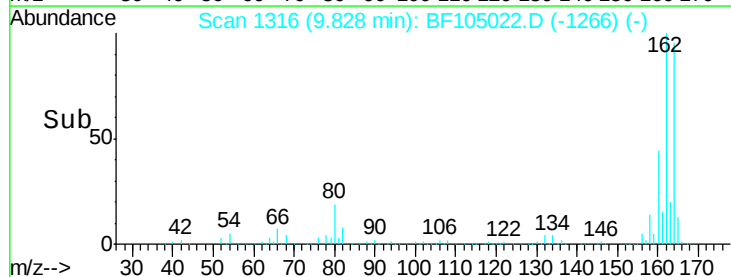
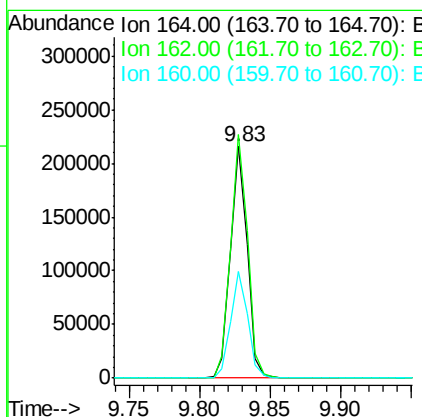
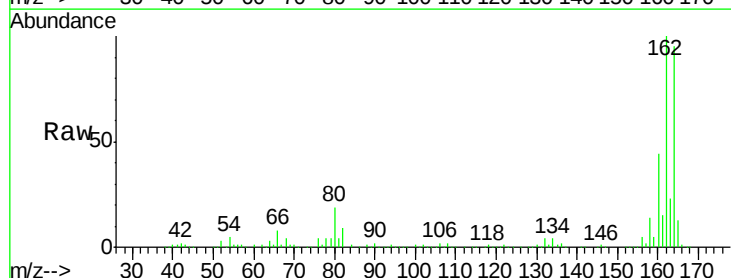
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#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.83 min Scan# 1316
Delta R.T. -0.01 min
Lab File: BF105022.D
Acq: 2 May 2018 11:24

Tgt Ion	Ratio	Lower	Upper
164	100		
162	105.2	86.1	129.1
160	46.0	38.3	57.5





#41

2,4,6-Tribromophenol

Concen: 51.565 ng

RT: 10.62 min Scan# 1451

Delta R.T. -0.01 min

Lab File: BF105022.D

Acq: 2 May 2018 11:24

Instrument :

BNA_F

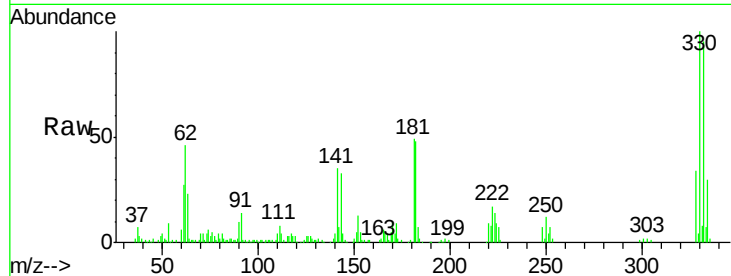
ClientSampleId :

CL-02-043018-A

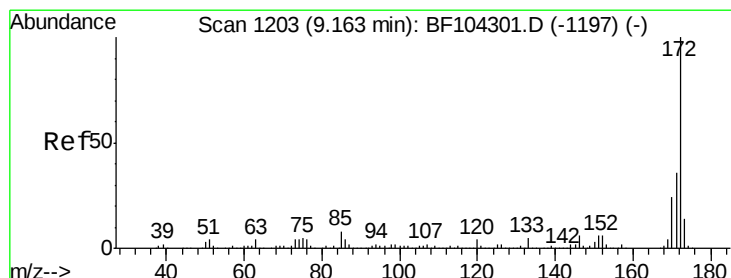
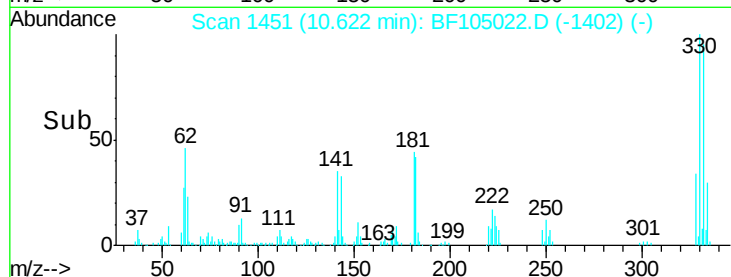
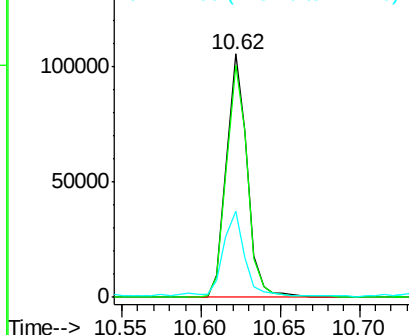
Tot Ion:	330	Resp:	95701
Ion Ratio	Lower	Upper	
330	100		
332	97.2	77.0	115.6
141	37.3	29.9	44.9

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



#44

2-Fluorobiphenyl

Concen: 40.694 ng

RT: 9.15 min Scan# 1200

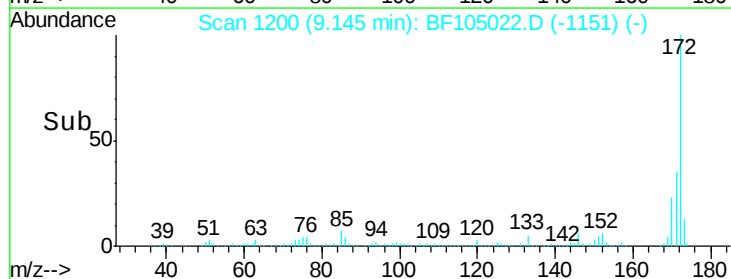
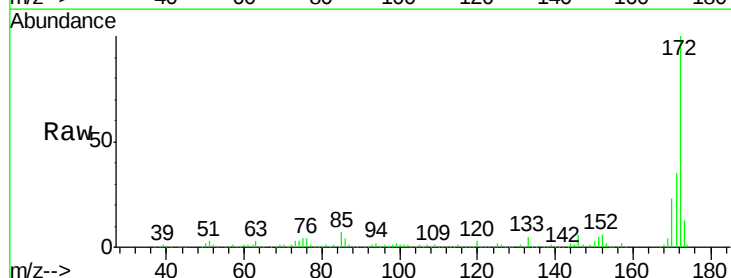
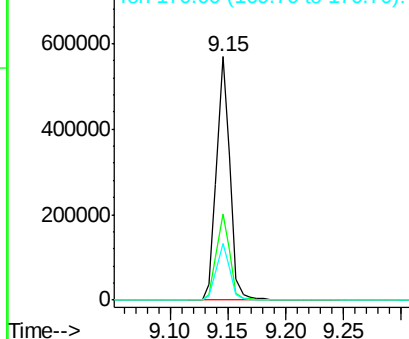
Delta R.T. -0.01 min

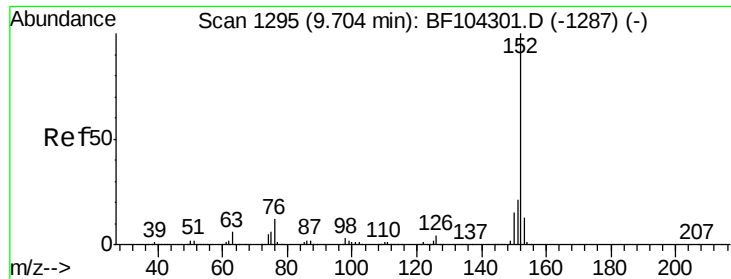
Lab File: BF105022.D

Acq: 2 May 2018 11:24

Tgt Ion:	172	Resp:	460882
Ion Ratio	Lower	Upper	
172	100		
171	35.4	29.7	44.5
170	23.4	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





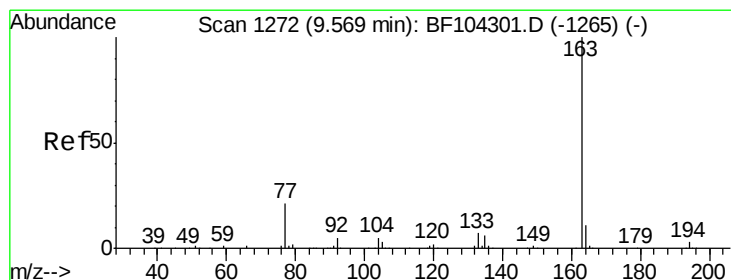
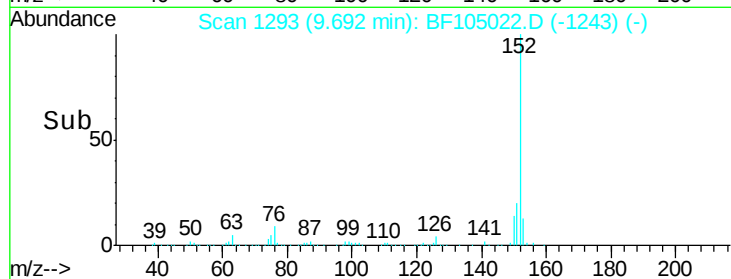
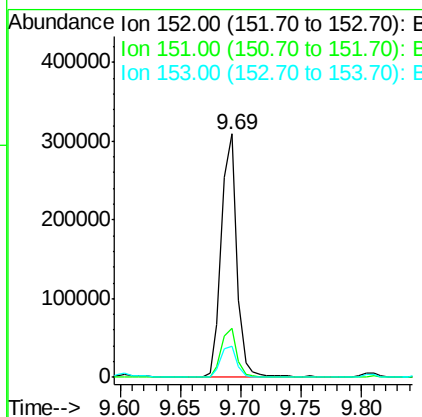
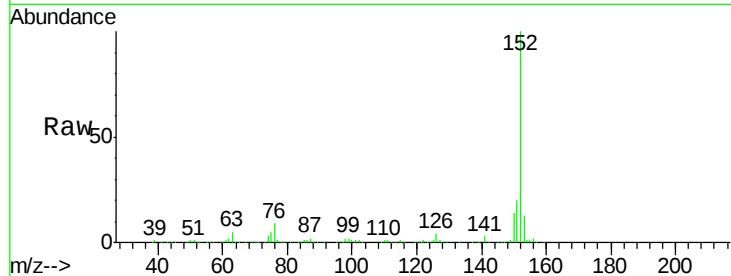
#48
Acenaphthylene
Concen: 14.754 ng
RT: 9.69 min Scan# 1293
Delta R.T. -0.01 min
Lab File: BF105022.D
Acq: 2 May 2018 11:24

Instrument :
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CL-02-043018-A

Tot Ion	Ratio	Resp	Lower	Upper
152	100	274815		
151	20.2		16.3	24.5
153	13.0		10.7	16.1

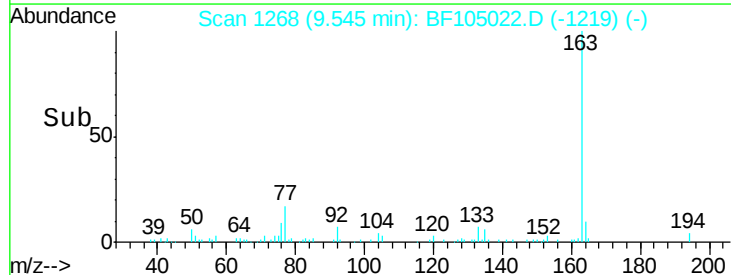
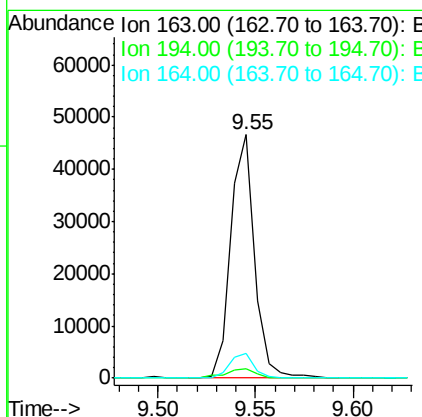
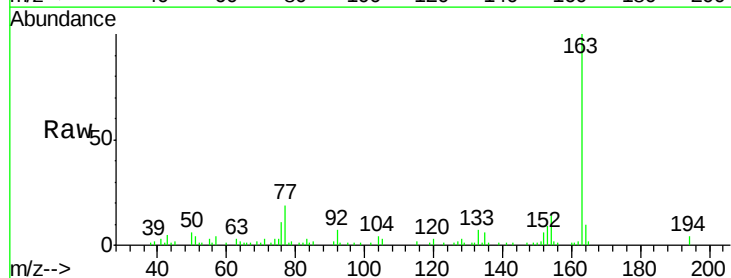
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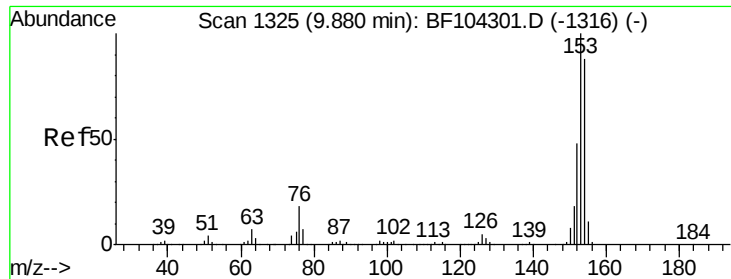
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#49
Dimethylphthalate
Concen: 2.793 ng
RT: 9.55 min Scan# 1268
Delta R.T. -0.01 min
Lab File: BF105022.D
Acq: 2 May 2018 11:24

Tgt Ion	Ratio	Resp	Lower	Upper
163	100	39400		
194	3.8		2.7	4.1
164	10.3		8.2	12.2





#51

Acenaphthene

Concen: 13.170 ng

RT: 9.86 min Scan# 1322

Delta R.T. -0.01 min

Lab File: BF105022.D

Acq: 2 May 2018 11:24

Instrument :

BNA_F

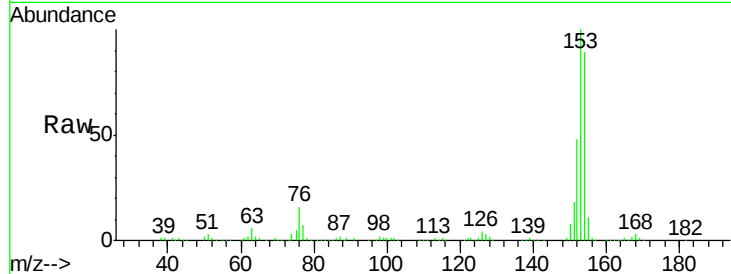
ClientSampleId :

CL-02-043018-A

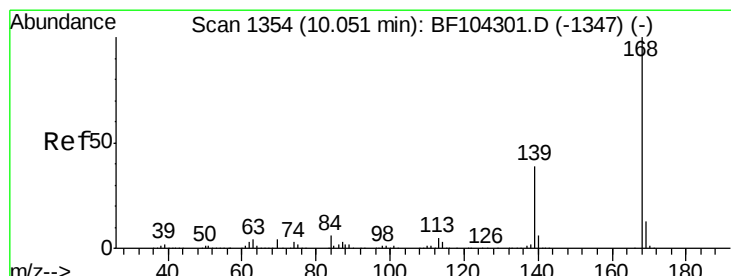
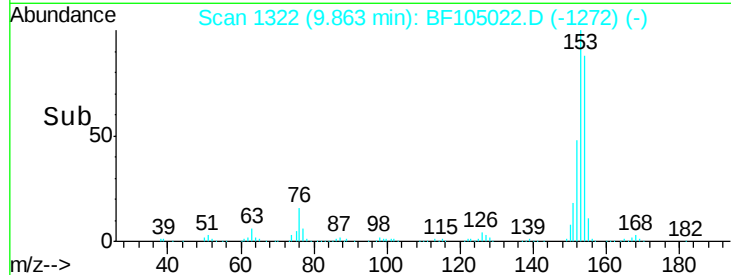
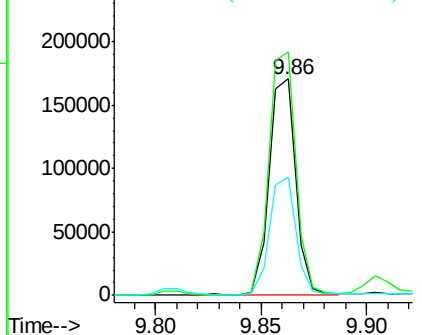
Tot Ion:	154	Resp:	149669
Ion Ratio	Lower	Upper	
154	100		
153	112.5	91.2	136.8
152	54.4	43.8	65.8

Manual Integrations
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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: 9.652 ng

RT: 10.03 min Scan# 1351

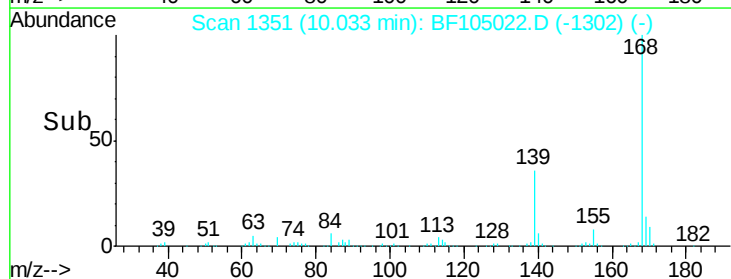
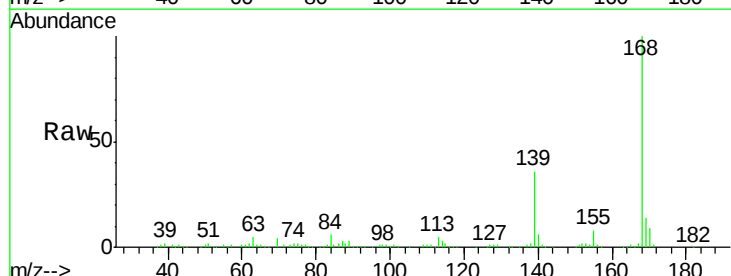
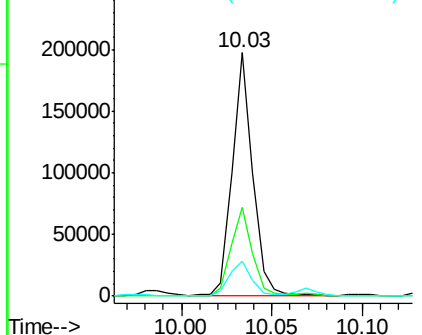
Delta R.T. -0.01 min

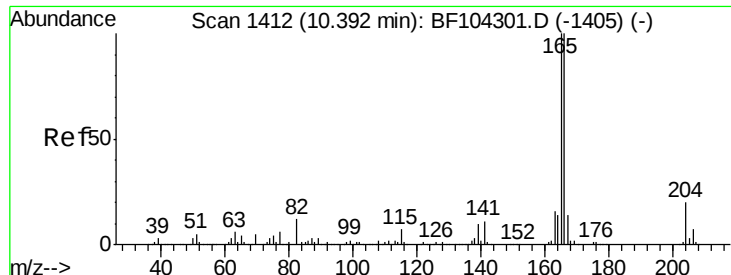
Lab File: BF105022.D

Acq: 2 May 2018 11:24

Tgt Ion:	168	Resp:	152868
Ion Ratio	Lower	Upper	
168	100		
139	36.3	30.1	45.1
169	14.5	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





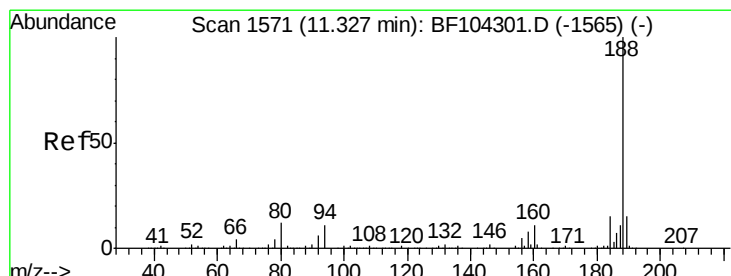
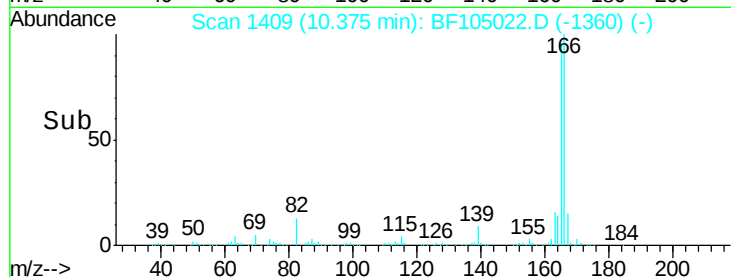
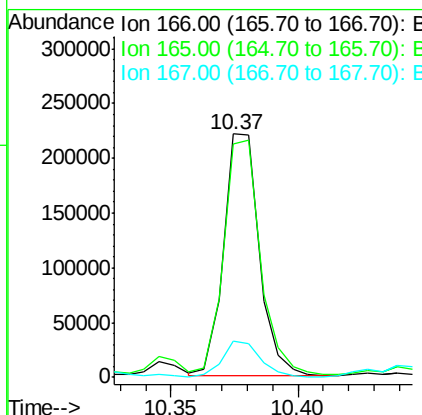
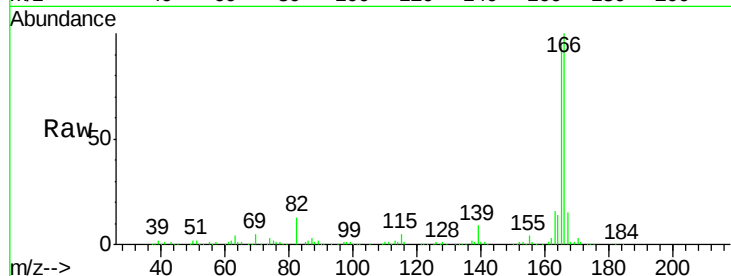
#57
 Fluorene
 Concen: 18.643 ng
 RT: 10.37 min Scan# 1409
 Delta R.T. -0.01 min
 Lab File: BF105022.D
 Acq: 2 May 2018 11:24

Instrument :
 BNA_F
 ClientSampleId :
 CL-02-043018-A

Tot Ion	Ratio	Resp	Lower	Upper
166	100	214917		
165	95.9	79.8	119.8	
167	14.9	10.6	16.0	

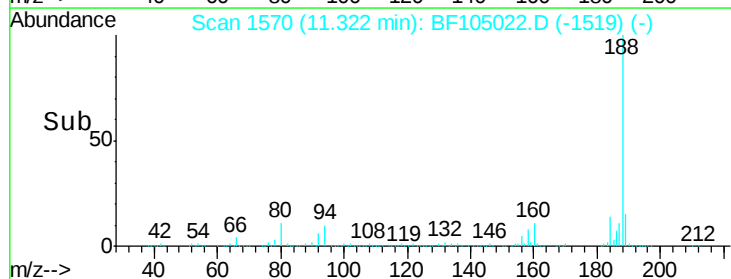
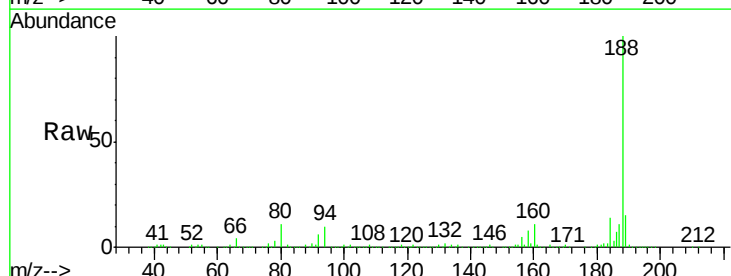
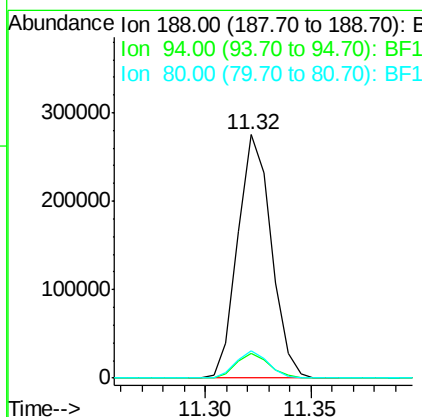
Manual Integrations
 APPROVED

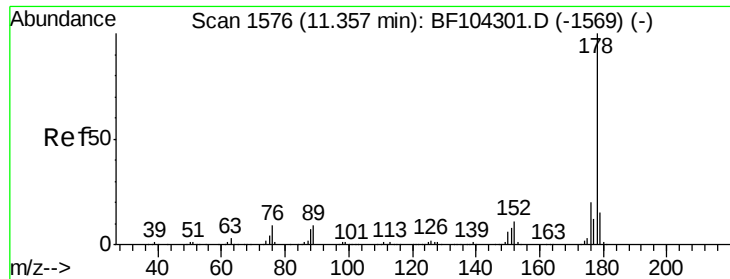
Sohil
 5/3/2018 5:00:41 PM



#63
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.32 min Scan# 1570
 Delta R.T. 0.00 min
 Lab File: BF105022.D
 Acq: 2 May 2018 11:24

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	303209		
94	10.0	8.5	12.7	
80	11.3	9.2	13.8	





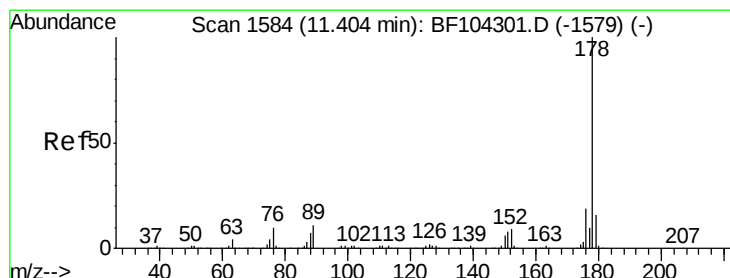
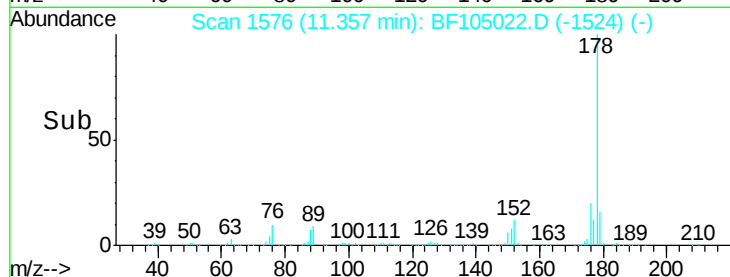
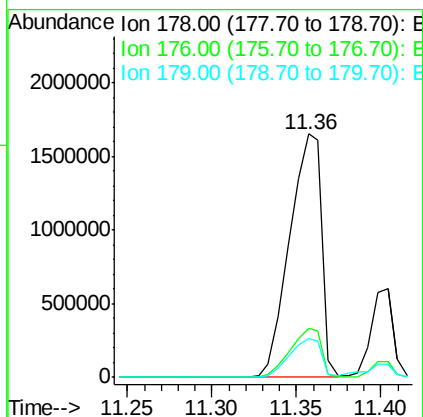
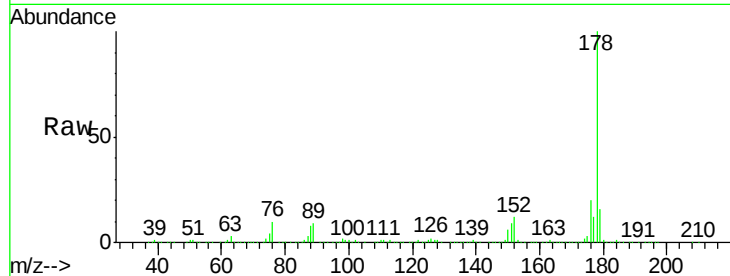
#70
Phenanthrene
Concen: 128.479 ng
RT: 11.36 min Scan# 1576
Delta R.T. 0.01 min
Lab File: BF105022.D
Acq: 2 May 2018 11:24

Instrument :
BNA_F
ClientSampleId :
CL-02-043018-A

Tot Ion	Ratio	Lower	Upper
178	100		
176	20.0	15.8	23.8
179	15.9	13.0	19.6

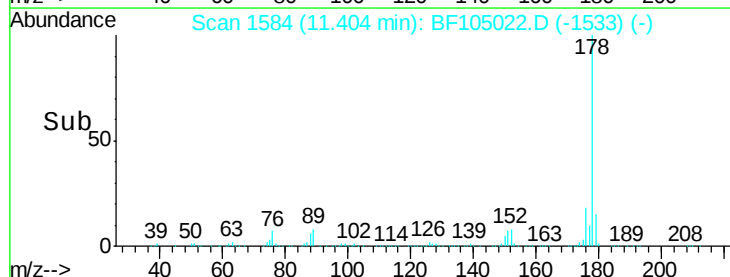
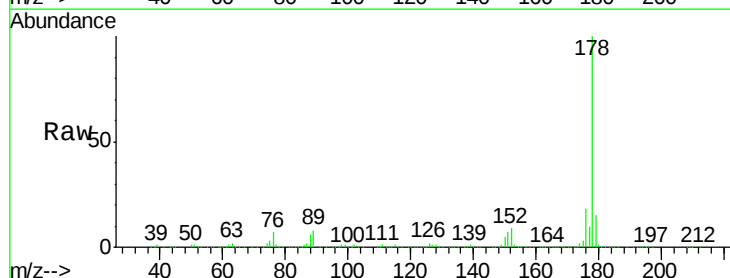
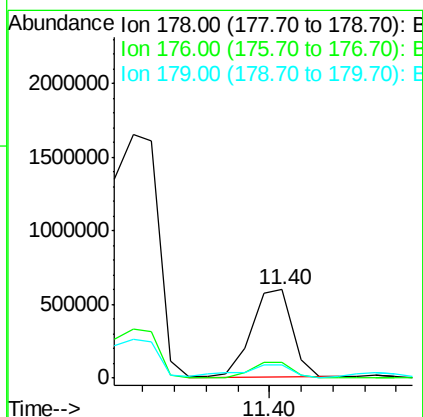
Manual Integrations
APPROVED

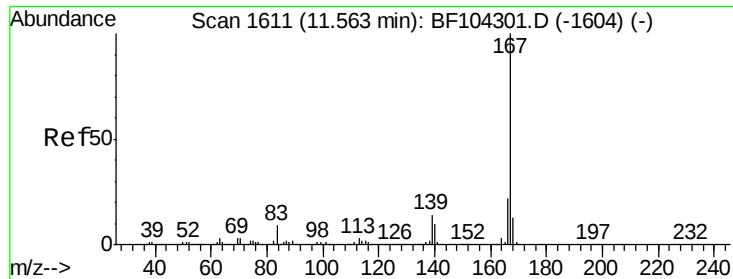
Sohil
5/3/2018 5:00:41 PM



#71
Anthracene
Concen: 30.956 ng
RT: 11.40 min Scan# 1584
Delta R.T. 0.00 min
Lab File: BF105022.D
Acq: 2 May 2018 11:24

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.4	15.4	23.2
179	15.3	12.6	19.0





#72

Carbazole

Concen: 15.000 ng

RT: 11.56 min Scan# 1610

Delta R.T. -0.01 min

Lab File: BF105022.D

Acq: 2 May 2018 11:24

Instrument :

BNA_F

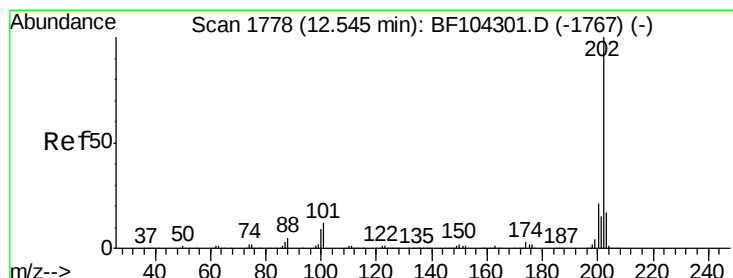
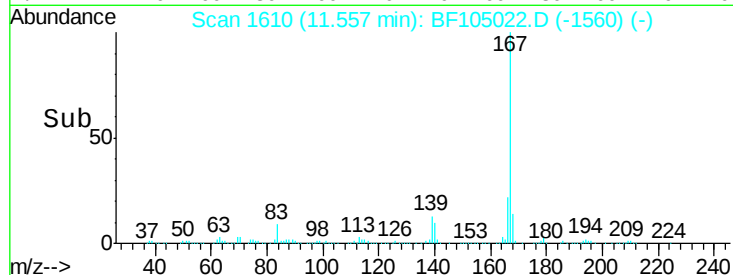
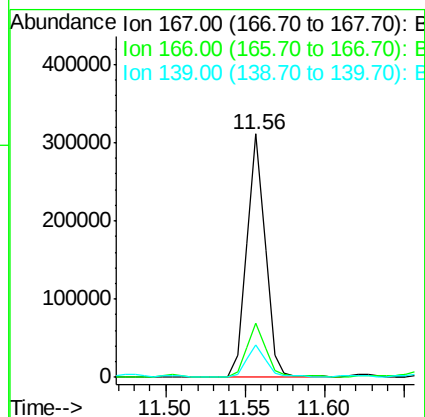
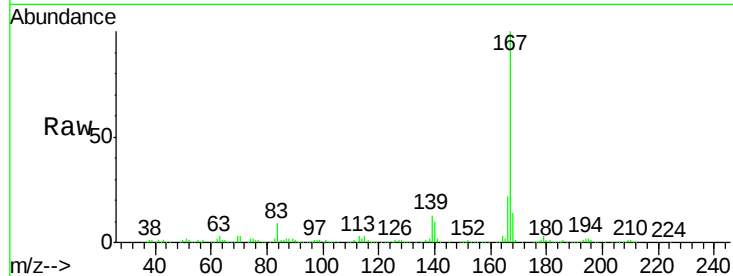
ClientSampleId :

CL-02-043018-A

Tot Ion:	167	Resp:	251592
Ion Ratio	Lower	Upper	
167	100		
166	22.3	17.6	26.4
139	13.1	10.9	16.3

Manual Integrations
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Sohil
5/3/2018 5:00:41 PM



#74

Fluoranthene

Concen: 150.792 ng

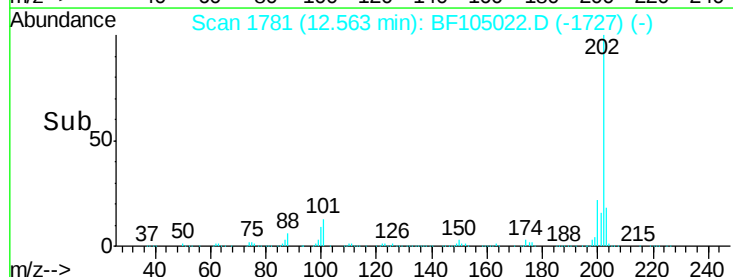
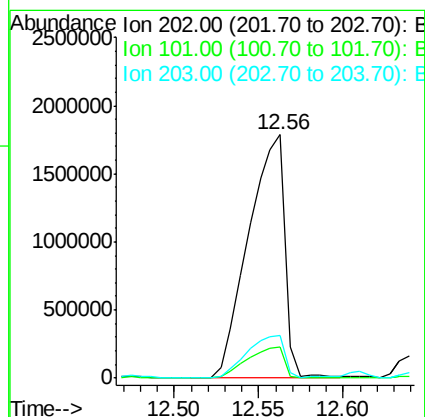
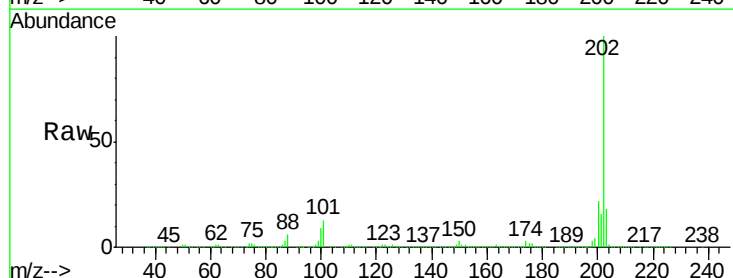
RT: 12.56 min Scan# 1781

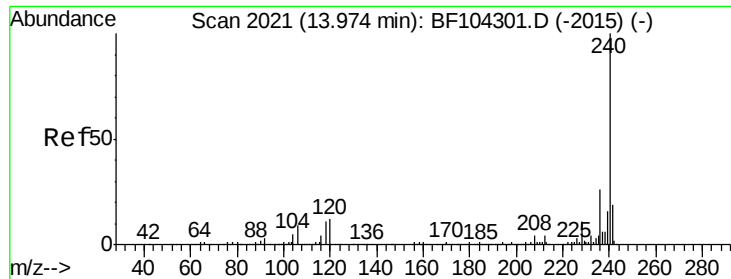
Delta R.T. 0.02 min

Lab File: BF105022.D

Acq: 2 May 2018 11:24

Tgt Ion:	202	Resp:	2660290
Ion Ratio	Lower	Upper	
202	100		
101	12.6	0.0	34.1
203	17.7	0.0	38.1





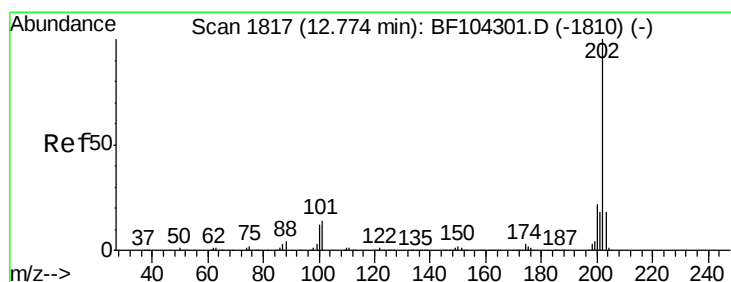
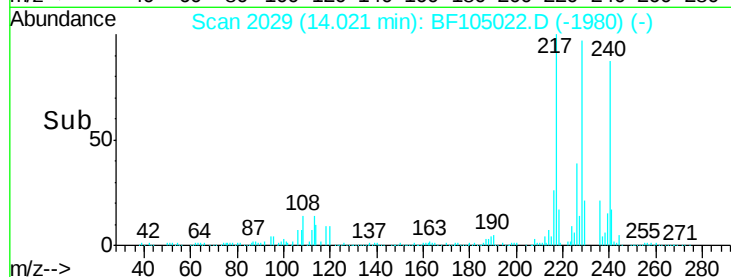
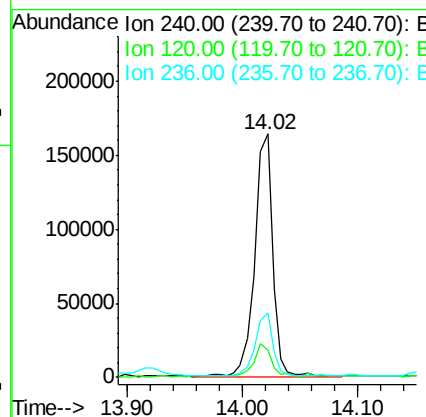
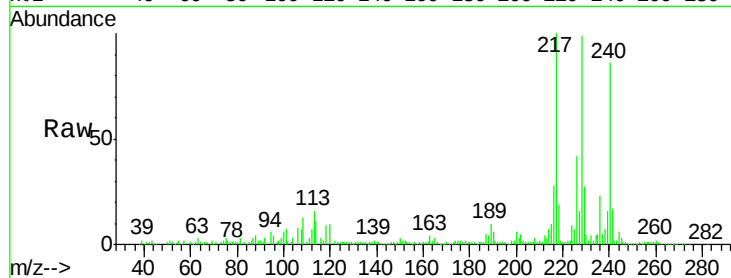
#75
 Chrysene-d12
 Concen: 20.000 ng
 RT: 14.02 min Scan# 2029
 Delta R.T. -0.01 min
 Lab File: BF105022.D
 Acq: 2 May 2018 11:24

Instrument :
 BNA_F
 ClientSampleId :
 CL-02-043018-A

Tot Ion	Ratio	Lower	Upper
240	100		
120	11.2	9.5	14.3
236	26.7	20.7	31.1

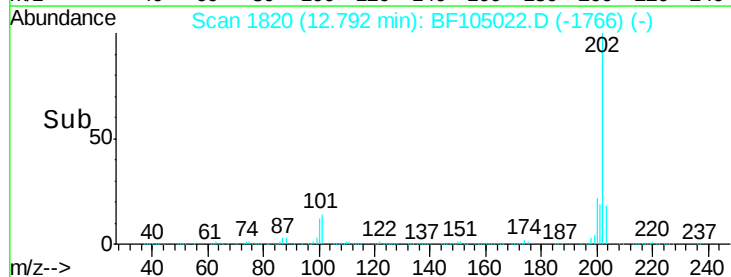
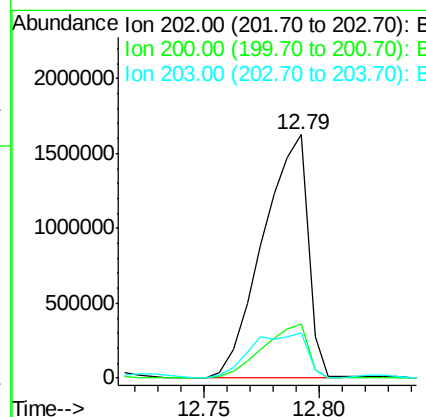
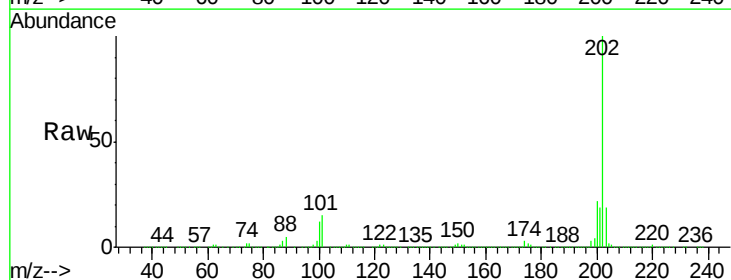
Manual Integrations
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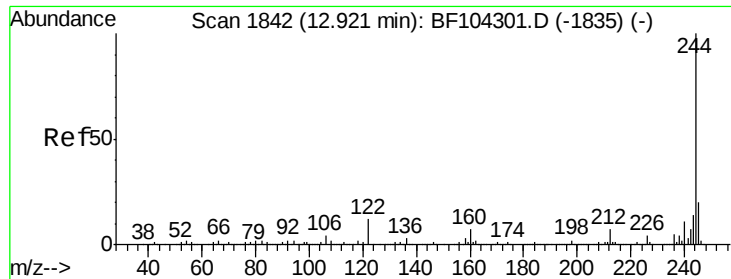
Sohil
 5/3/2018 5:00:41 PM



#77
 Pyrene
 Concen: 166.324 ng
 RT: 12.79 min Scan# 1820
 Delta R.T. 0.02 min
 Lab File: BF105022.D
 Acq: 2 May 2018 11:24

Tgt Ion	Ratio	Lower	Upper
202	100		
200	22.2	17.4	26.2
203	18.5	14.3	21.5





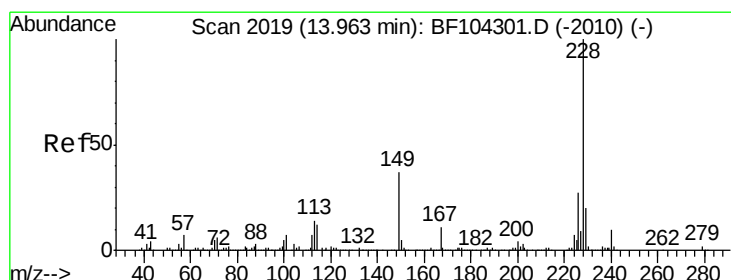
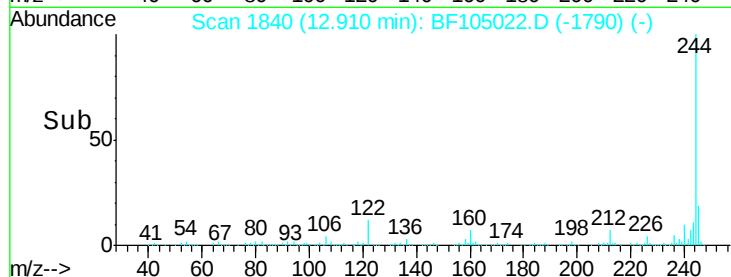
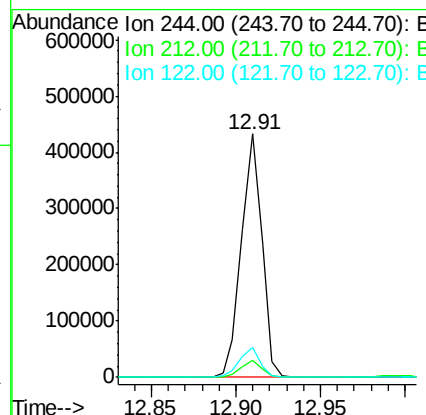
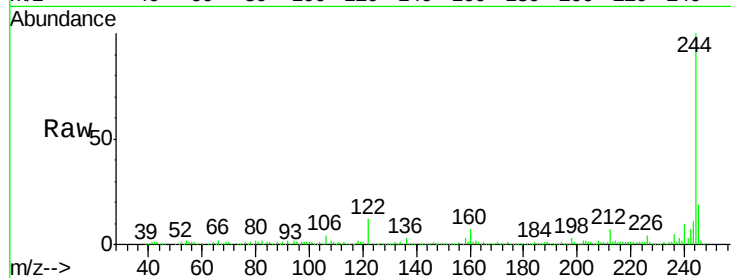
#78
 Terphenyl-d14
 Concen: 47.169 ng
 RT: 12.91 min Scan# 1840
 Delta R.T. -0.01 min
 Lab File: BF105022.D
 Acq: 2 May 2018 11:24

Instrument :
 BNA_F
 ClientSampleId :
 CL-02-043018-A

Tot Ion	Ratio	Lower	Upper
244	100		
212	6.8	5.4	8.0
122	12.4	11.0	16.4

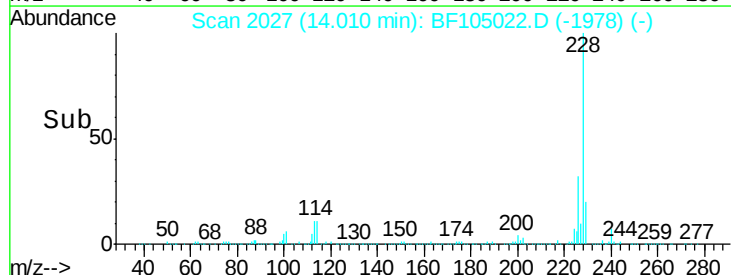
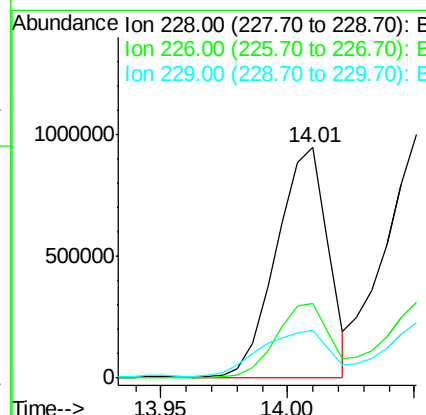
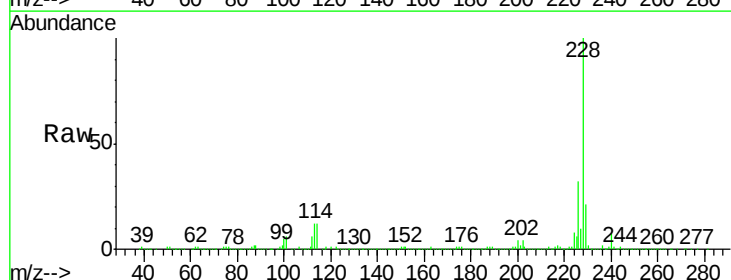
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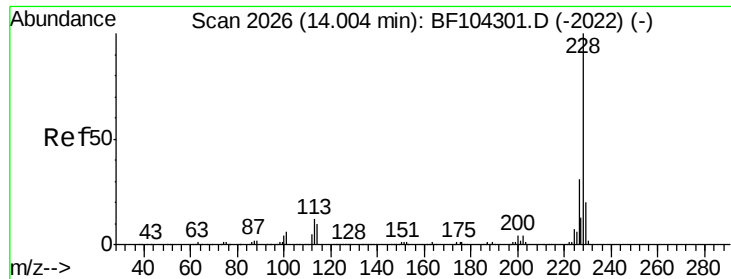
Sohil
 5/3/2018 5:00:41 PM



#80
 Benzo(a)anthracene
 Concen: 125.064 ng
 RT: 14.01 min Scan# 2027
 Delta R.T. -0.01 min
 Lab File: BF105022.D
 Acq: 2 May 2018 11:24

Tgt Ion	Ratio	Lower	Upper
228	100		
226	32.3	22.6	33.8
229	20.8	15.8	23.6





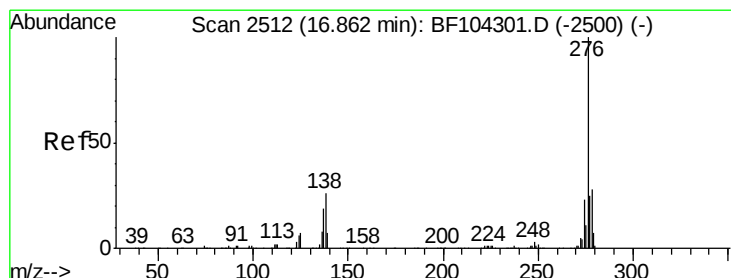
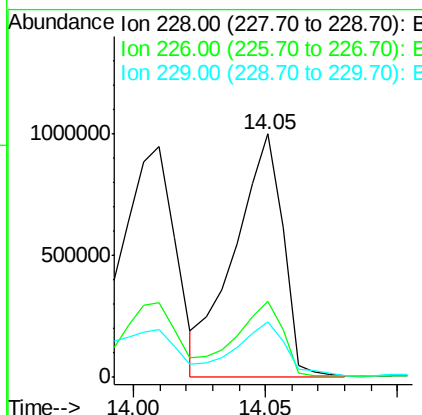
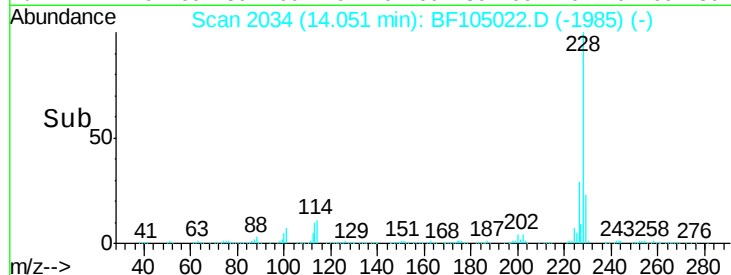
#82
Chrysene
Concen: 118.166 ng/mL
RT: 14.05 min Scan# 2034
Delta R.T. -0.01 min
Lab File: BF105022.D
Acq: 2 May 2018 11:24

Instrument :
BNA_F
ClientSampleId :
CL-02-043018-A

Tot Ion:	228	Resp:	1288025
Ion	Ratio	Lower	Upper
228	100		
226	31.4	25.0	37.6
229	23.0	16.2	24.4

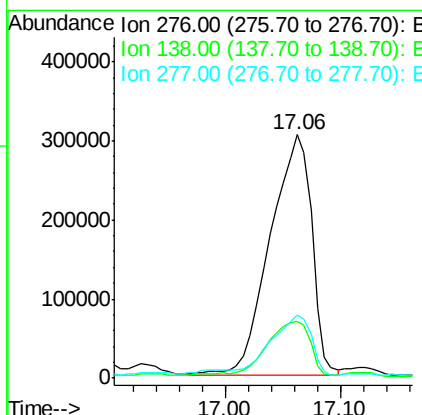
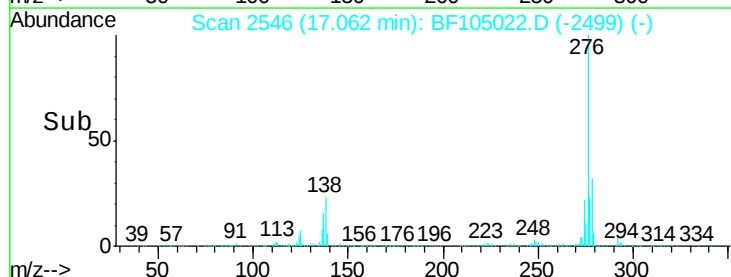
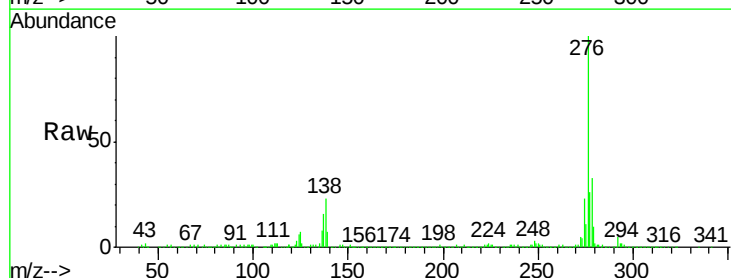
Manual Integrations
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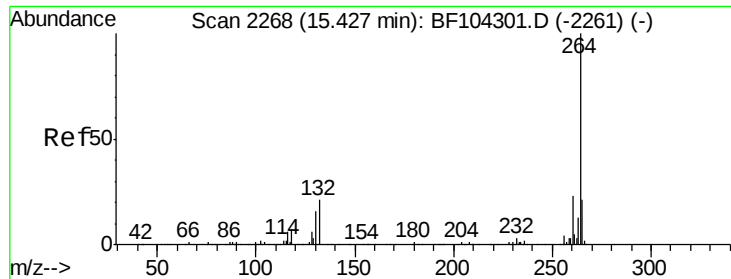
Sohil
5/3/2018 5:00:41 PM



#85
Indeno(1,2,3-cd)pyrene
Concen: 82.959 ng/mL
RT: 17.06 min Scan# 2546
Delta R.T. -0.02 min
Lab File: BF105022.D
Acq: 2 May 2018 11:24

Tgt Ion:	276	Resp:	768160
Ion	Ratio	Lower	Upper
276	100		
138	24.0	25.0	37.6#
277	24.0	20.1	30.1





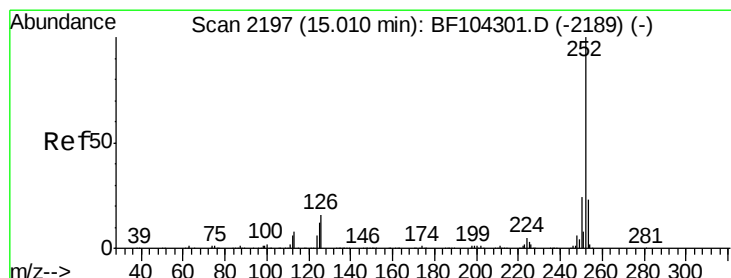
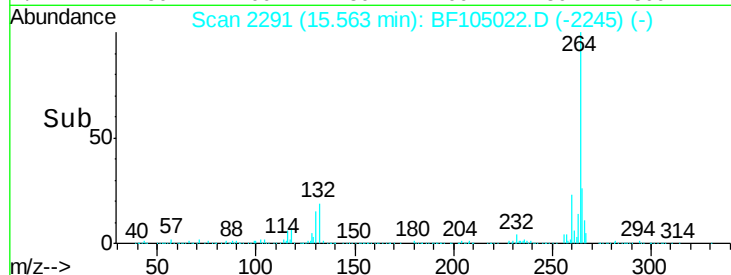
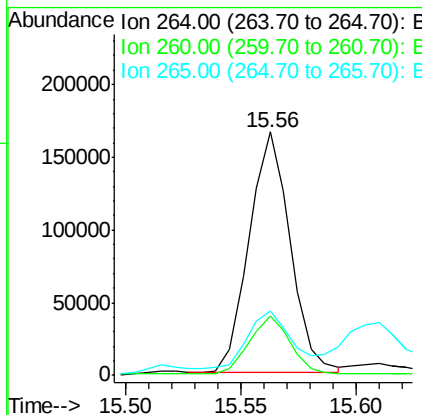
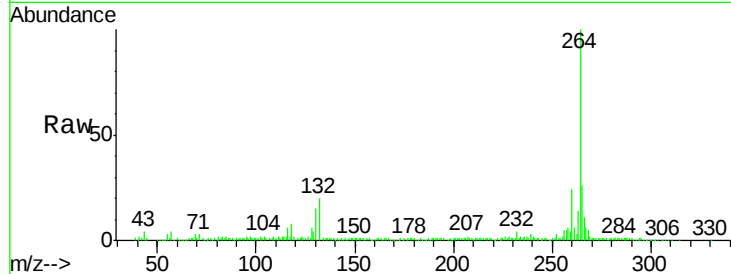
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.56 min Scan# 2291
Delta R.T. -0.03 min
Lab File: BF105022.D
Acq: 2 May 2018 11:24

Instrument :
BNA_F
ClientSampleId :
CL-02-043018-A

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.4	19.2	28.8
265	26.4	17.5	26.3#

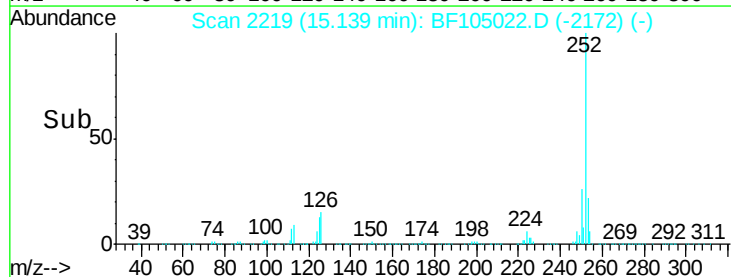
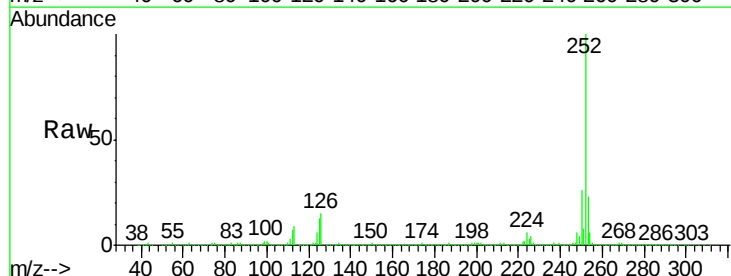
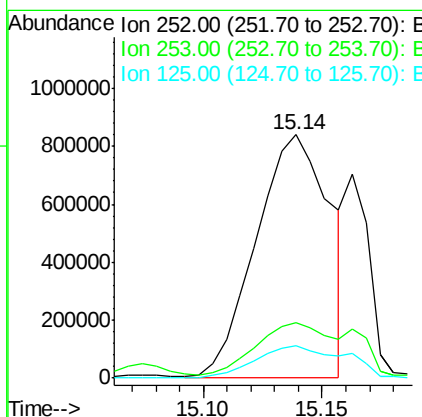
Manual Integrations
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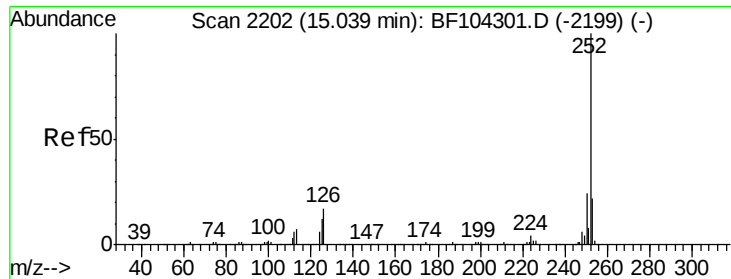
Sohil
5/3/2018 5:00:41 PM



#87
Benzo(b)fluoranthene
Concen: 139.378 ng m
RT: 15.14 min Scan# 2219
Delta R.T. -0.02 min
Lab File: BF105022.D
Acq: 2 May 2018 11:24

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.7	17.0	25.6
125	13.1	9.0	13.6





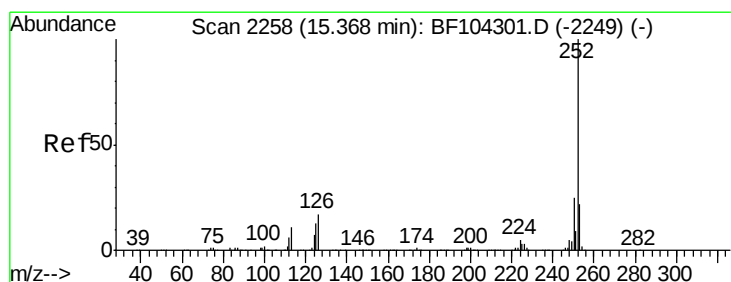
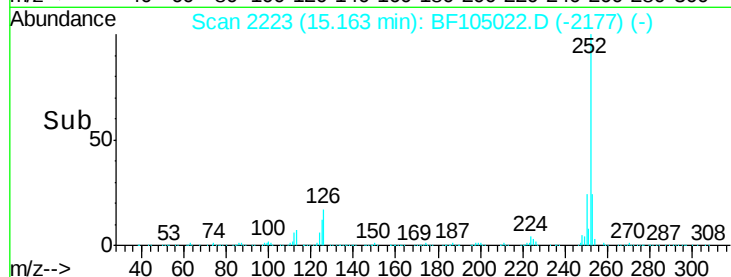
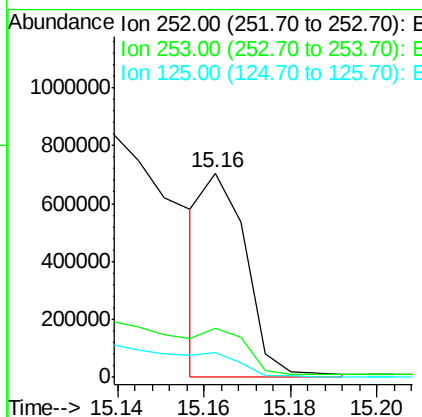
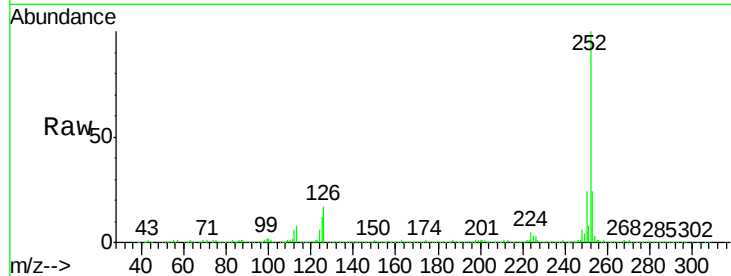
#88
Benzo(k)fluoranthene
Concen: 39.267 ng m
RT: 15.16 min Scan# 2223
Delta R.T. -0.03 min
Lab File: BF105022.D
Acq: 2 May 2018 11:24

Instrument :
BNA_F
ClientSampleId :
CL-02-043018-A

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.0	17.9	26.9
125	12.1	10.2	15.2

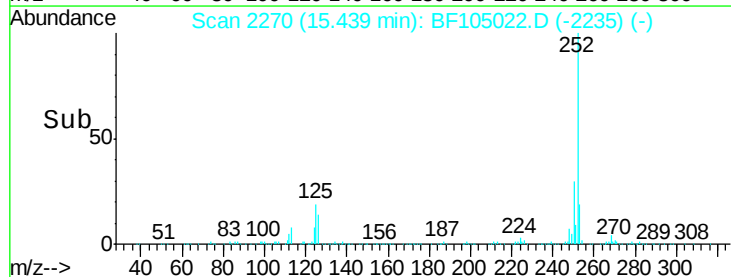
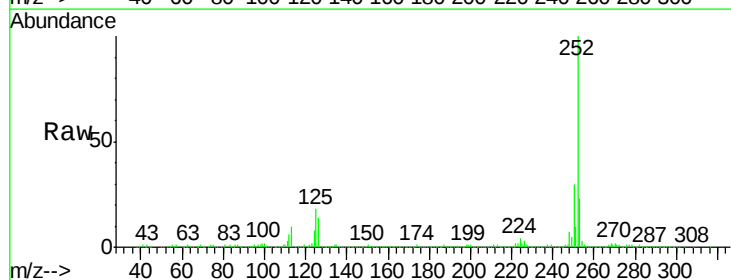
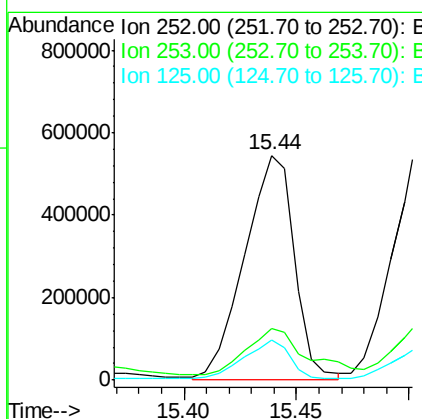
Manual Integrations
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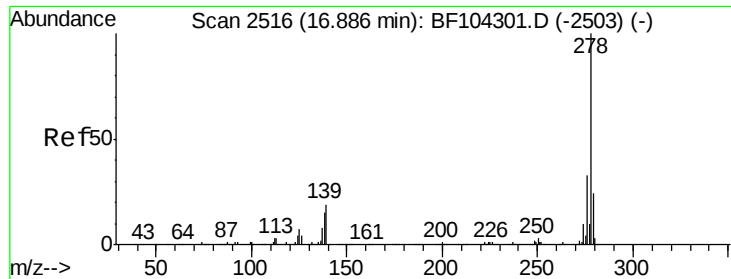
Sohil
5/3/2018 5:00:41 PM



#89
Benzo(a)pyrene
Concen: 72.536 ng m
RT: 15.44 min Scan# 2270
Delta R.T. -0.09 min
Lab File: BF105022.D
Acq: 2 May 2018 11:24

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.1	25.7
125	17.7	9.8	14.6





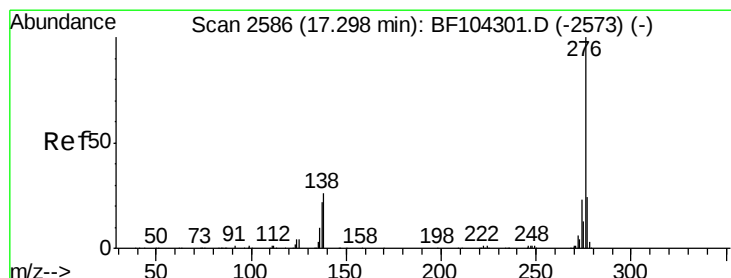
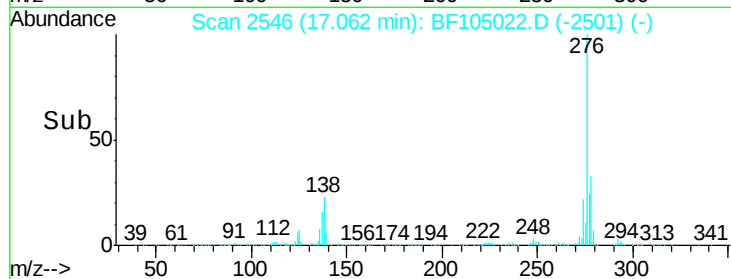
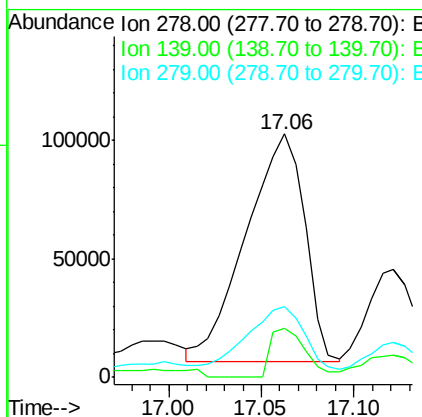
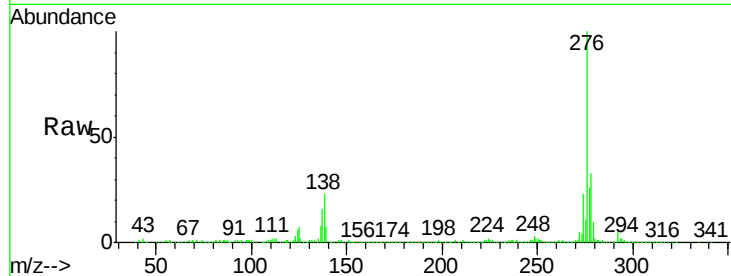
#90
Dibenzo(a,h)anthracene
Concen: 22.033 ng m
RT: 17.06 min Scan# 2546
Delta R.T. -0.04 min
Lab File: BF105022.D
Acq: 2 May 2018 11:24

Instrument :
BNA_F
ClientSampleId :
CL-02-043018-A

Tot Ion	Ratio	Lower	Upper
278	100		
139	20.0	15.9	23.9
279	29.2	19.0	28.4

Manual Integrations
APPROVED

Sohil
5/3/2018 5:00:41 PM



#91
Benzo(g,h,i)perylene
Concen: 72.805 ng
RT: 17.52 min Scan# 2623
Delta R.T. -0.02 min
Lab File: BF105022.D
Acq: 2 May 2018 11:24

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.9	17.9	26.9
138	24.3	21.8	32.8

