

Data Path : Z:\HPCHEM1\BNA F\DATA\BF012018\
 Data File : BF102270.D
 Acq On : 20 Jan 2018 17:14
 Operator : SJ/JU
 Sample : J1210-04
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 RT-4248

Manual Integrations
 APPROVED

Sohil
 1/22/2018 5:25:50 PM

Quant Time: Jan 22 03:08:52 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	148807	20.00	ng	0.00
21) Naphthalene-d8	8.00	136	614913	20.00	ng	0.00
38) Acenaphthene-d10	9.76	164	264458	20.00	ng	0.00
63) Phenanthrene-d10	11.25	188	353262	20.00	ng	0.01
75) Chrysene-d12	13.90	240	228191	20.00	ng	0.02
86) Perylene-d12	15.32	264	232780	20.00	ng	0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.33	112	843318	80.03	ng	0.00
7) Phenol-d6	6.36	99	1013454	80.61	ng	0.00
23) Nitrobenzene-d5	7.29	82	610382	58.33	ng	-0.01
41) 2,4,6-Tribromophenol	10.55	330	168056	72.82	ng	0.00
44) 2-Fluorobiphenyl	9.08	172	1047352	61.87	ng	0.00
78) Terphenyl-d14	12.83	244	686376	62.45	ng	0.00
Target Compounds						Qvalue
10) Phenol	6.37	94	56676	3.99	ng	94
31) Naphthalene	8.03	128	1666066	54.22	ng	99
37) 2-Methylnaphthalene	8.73	142	2058894	101.78	ng	97
45) 1,1'-Biphenyl	9.18	154	546231	23.37	ng	99
48) Acenaphthylene	9.62	152	880515	30.61	ng	# 93
49) Dimethylphthalate	9.48	163	138668	6.54	ng	99
51) Acenaphthene	9.80	154	1028507	58.91	ng	97
54) Dibenzofuran	9.97	168	1349071	56.30	ng	94
57) Fluorene	10.32	166	1931921	116.62	ng	# 97
70) Phenanthrene	11.30	178	5764823	279.37	ng	99
71) Anthracene	11.33	178	1288293	61.56	ng	99
72) Carbazole	11.48	167	338112	16.44	ng	98
74) Fluoranthene	12.49	202	3189550	157.10	ng	97
77) Pyrene	12.72	202	3520593	174.54	ng	97
80) Benzo(a)anthracene	13.89	228	1483761m	101.91	ng	
82) Chrysene	13.93	228	1597303m	105.22	ng	
85) Indeno(1,2,3-cd)pyrene	16.71	276	292059	26.43	ng	98
87) Benzo(b)fluoranthene	14.92	252	974141m	64.18	ng	
88) Benzo(k)fluoranthene	14.94	252	223197m	15.24	ng	
89) Benzo(a)pyrene	15.26	252	742492	54.36	ng	95
90) Dibenzo(a,h)anthracene	16.71	278	100100	9.18	ng	# 83
91) Benzo(g,h,i)perylene	17.13	276	329602	30.02	ng	97

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

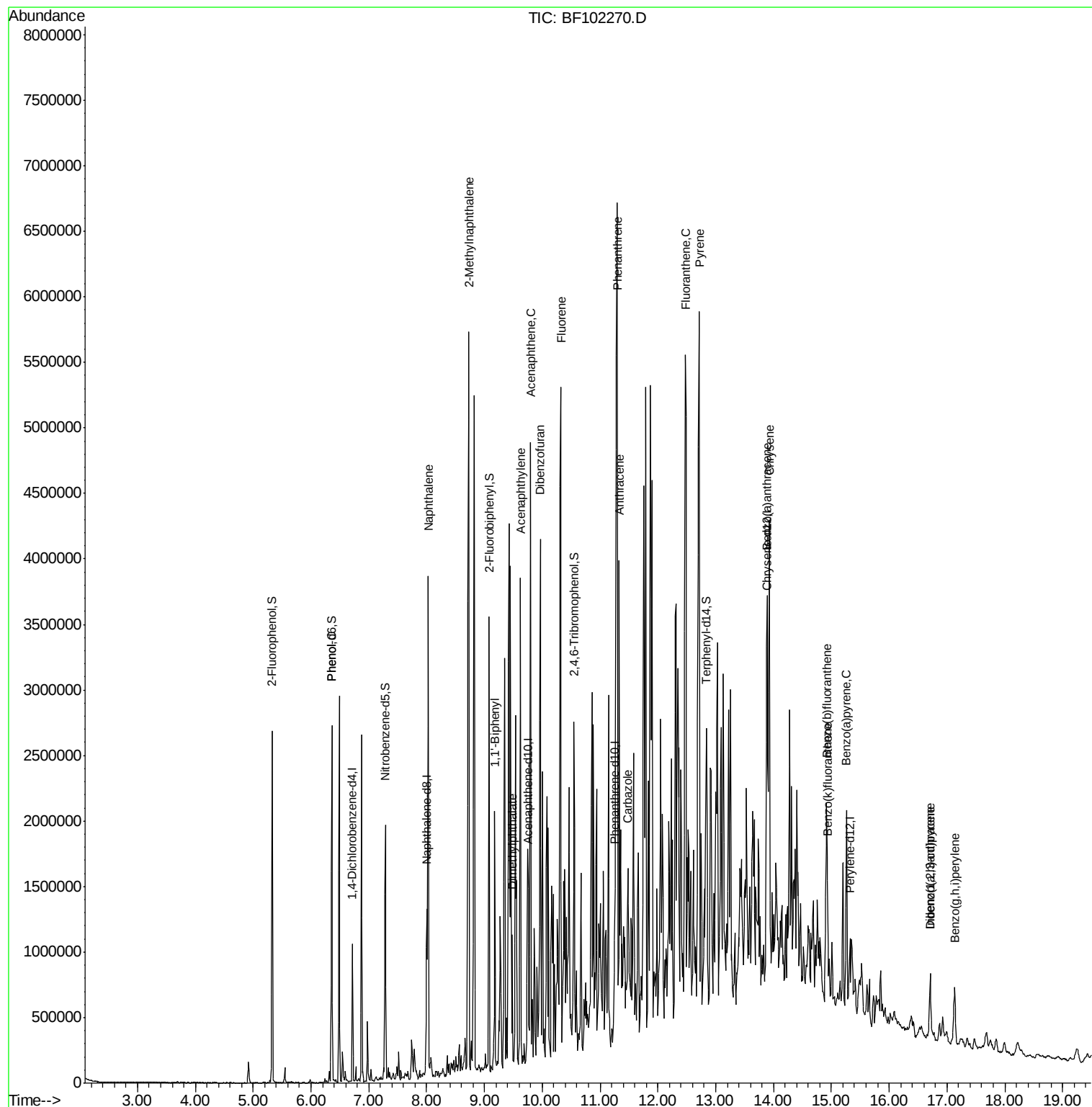
Data Path : Z:\HPCHEM1\BNA F\DATA\BF012018\
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Sample : J1210-04
Misc :
ALS Vial : 20 Sample Multiplier: 1

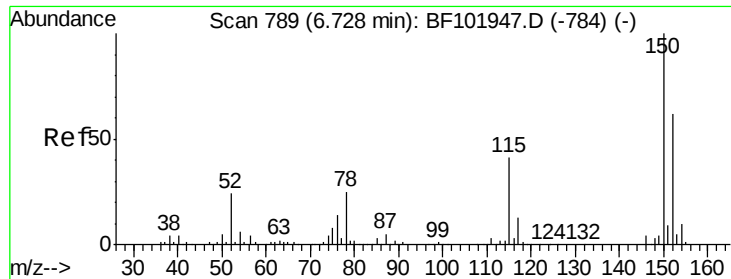
Instrument :
BNA_F
ClientSampleId :
RT-4248

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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF010918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

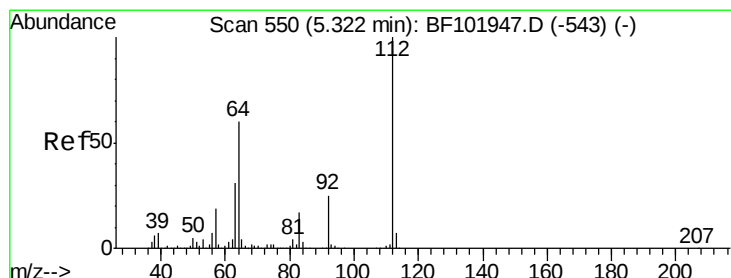
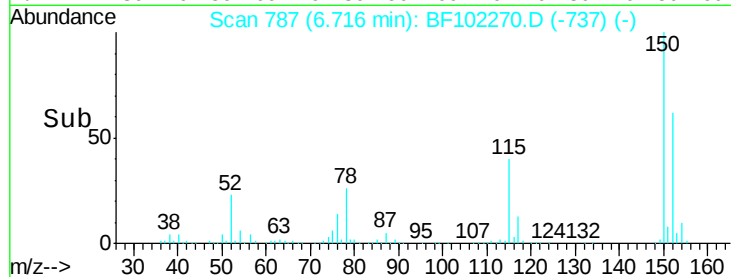
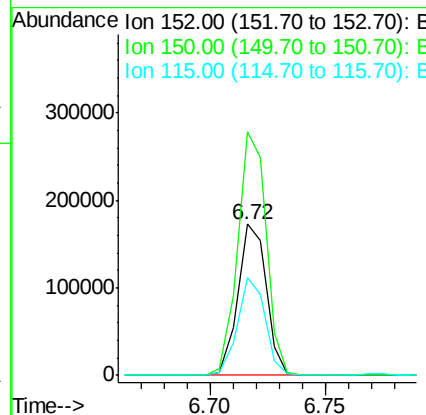
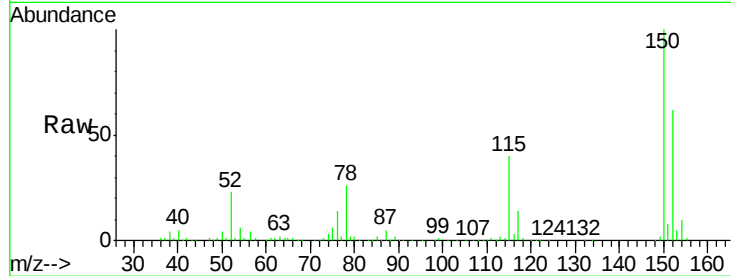
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.72 min Scan# 787
Delta R.T. -0.01 min
Lab File: BF102270.D
Acq: 20 Jan 2018 17:14

Instrument :
BNA_F
ClientSampled :
RT-4248

Tot Ion	Ratio	Lower	Upper
152	100		
150	161.0	124.6	186.8
115	64.7	50.1	75.1

Manual Integrations
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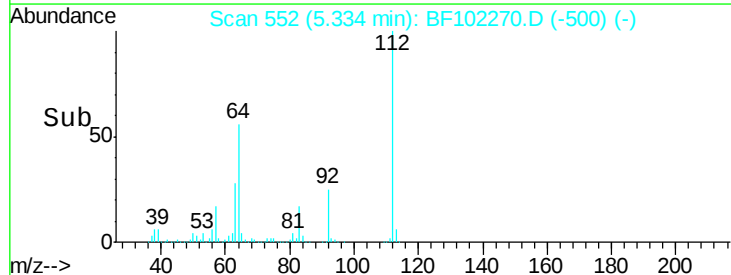
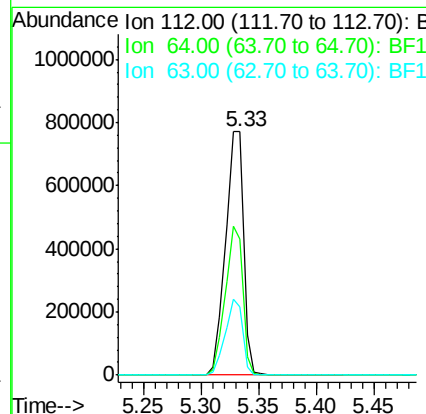
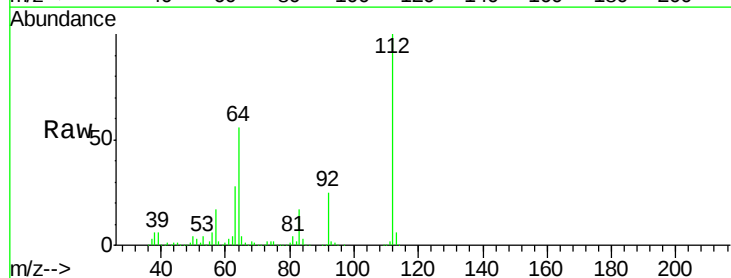
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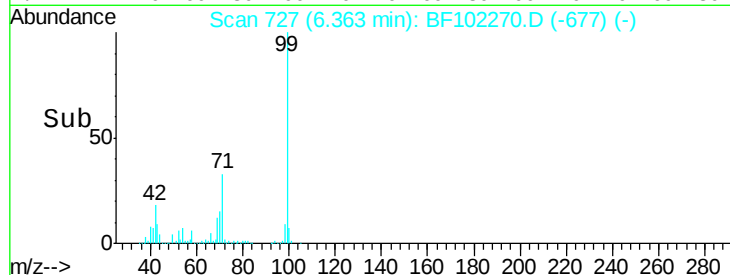
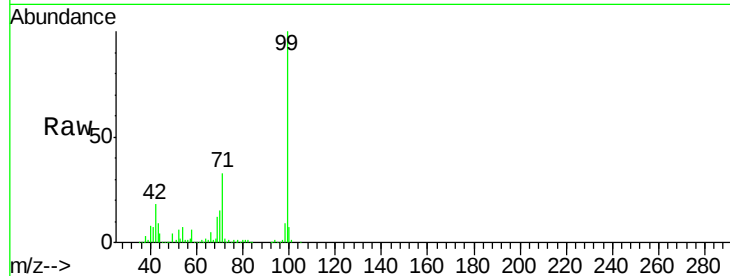
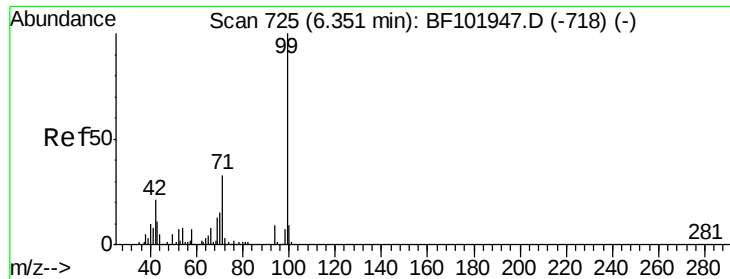


#5

2-Fluorophenol
Concen: 80.03 ng
RT: 5.33 min Scan# 552
Delta R.T. 0.01 min
Lab File: BF102270.D
Acq: 20 Jan 2018 17:14

Tgt Ion	Ratio	Lower	Upper
112	100		
64	56.1	47.9	71.9
63	28.2	23.7	35.5





#7

Phenol-d6

Concen: 80.61 ng

RT: 6.36 min Scan# 727

Delta R.T. -0.01 min

Lab File: BF102270.D

Acq: 20 Jan 2018 17:14

Tot Ion:	99	Resp:	1013454
Ion	Ratio	Lower	Upper
99	100		
42	18.1	14.5	21.7
71	33.1	25.4	38.0

Instrument :

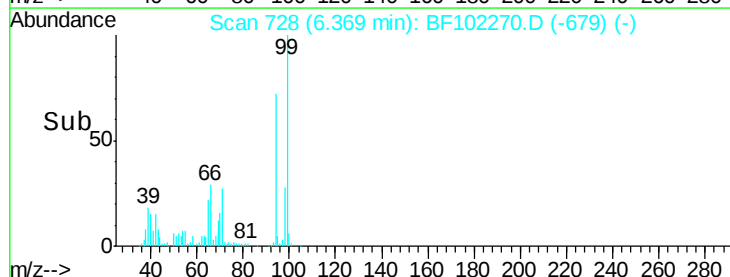
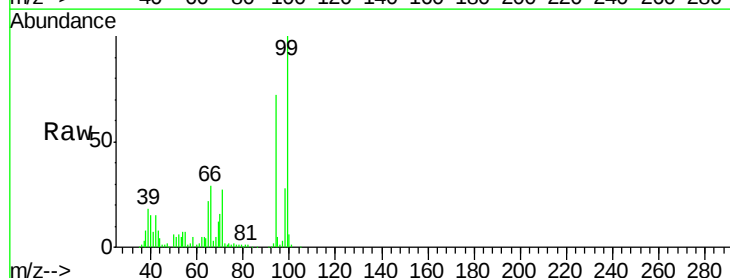
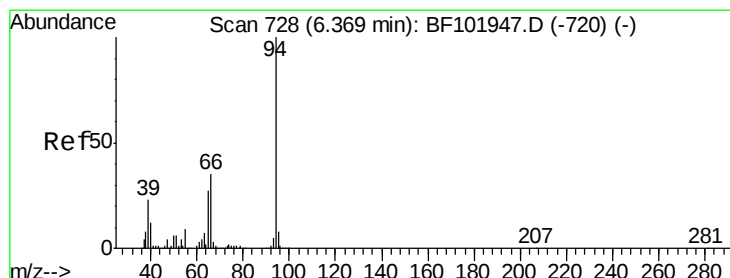
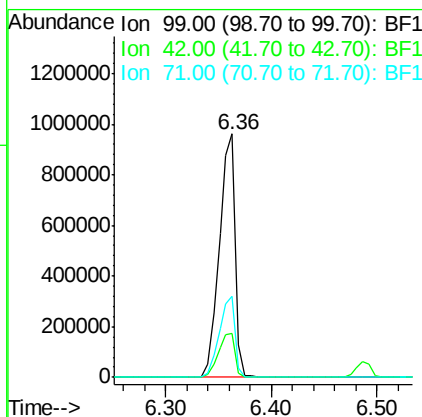
BNA_F

ClientSampled :

RT-4248

Manual Integrations
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#10

Phenol

Concen: 3.99 ng

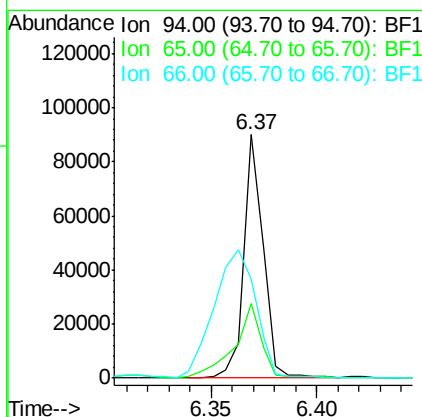
RT: 6.37 min Scan# 728

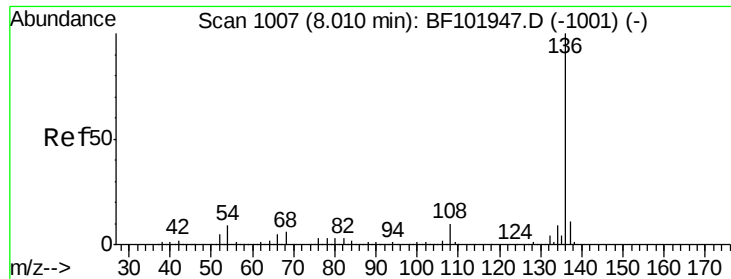
Delta R.T. -0.01 min

Lab File: BF102270.D

Acq: 20 Jan 2018 17:14

Tgt Ion:	94	Resp:	56676
Ion	Ratio	Lower	Upper
94	100		
65	30.5	7.9	47.9
66	40.7	16.2	56.2





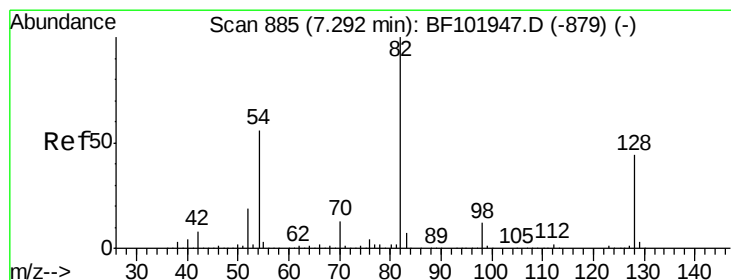
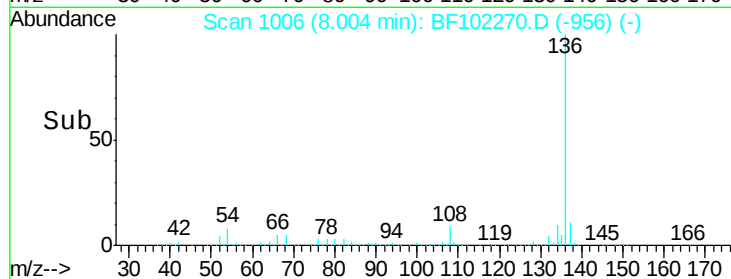
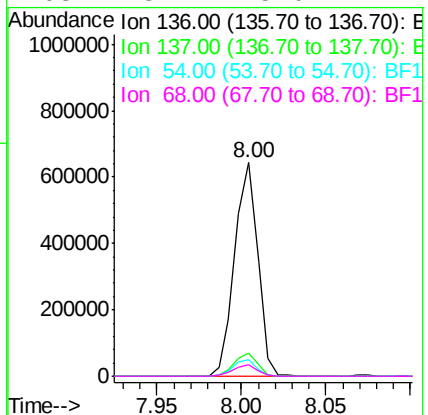
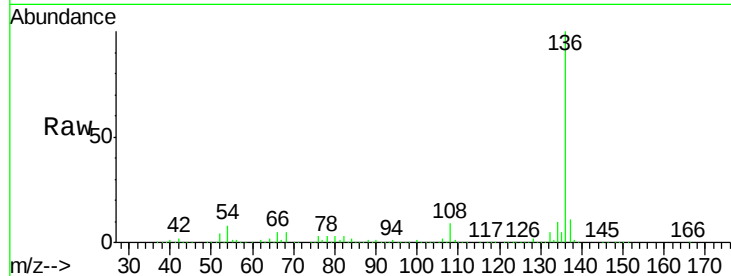
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.00 min Scan# 1006
Delta R.T. -0.01 min
Lab File: BF102270.D
Acq: 20 Jan 2018 17:14

Instrument :
BNA_F
ClientSampled :
RT-4248

Tot Ion	Ratio	Resp	Lower	Upper
136	100	614913		
137	11.0	8.9	13.3	
54	8.1	6.6	9.8	
68	5.4	5.0	7.4	

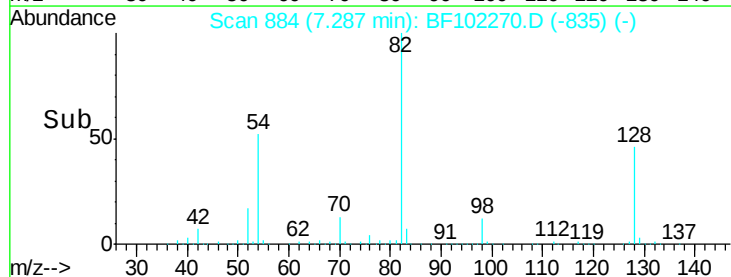
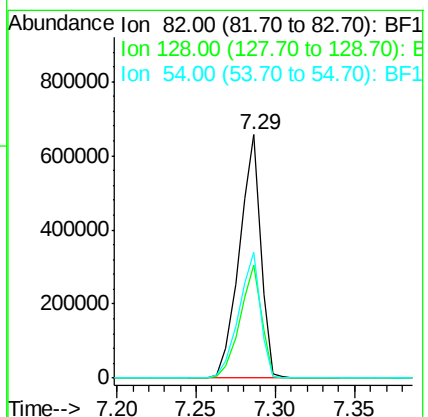
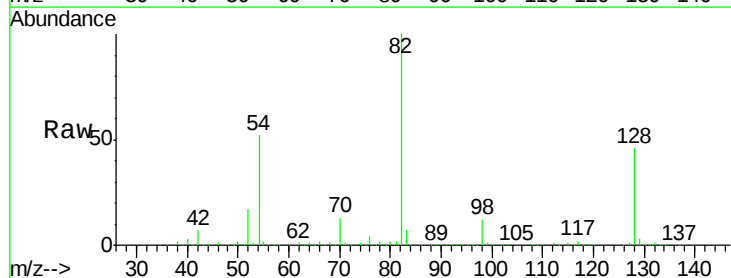
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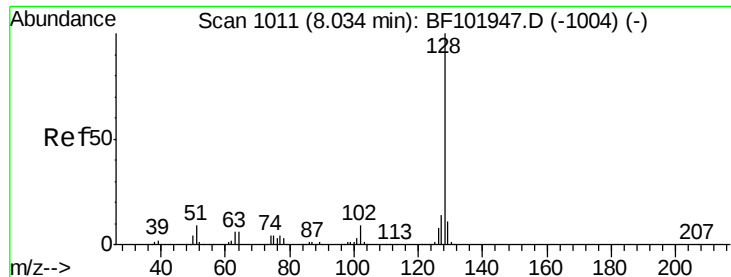
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#23
Nitrobenzene-d5
Concen: 58.33 ng
RT: 7.29 min Scan# 884
Delta R.T. -0.01 min
Lab File: BF102270.D
Acq: 20 Jan 2018 17:14

Tgt Ion	Ratio	Resp	Lower	Upper
82	100	610382		
128	46.4	36.1	54.1	
54	51.9	41.4	62.2	





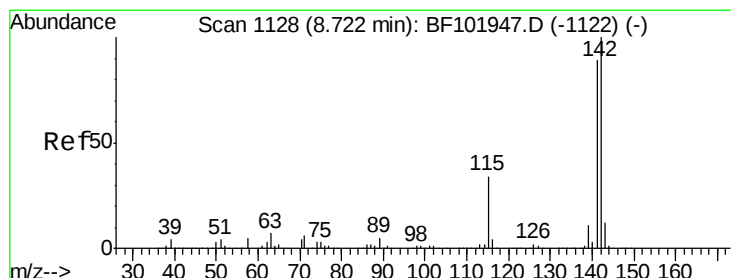
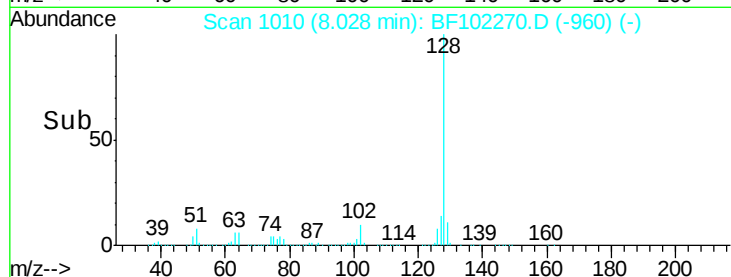
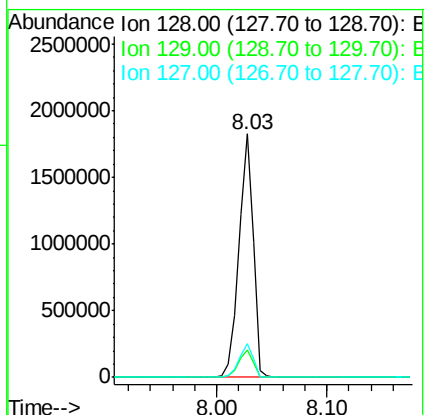
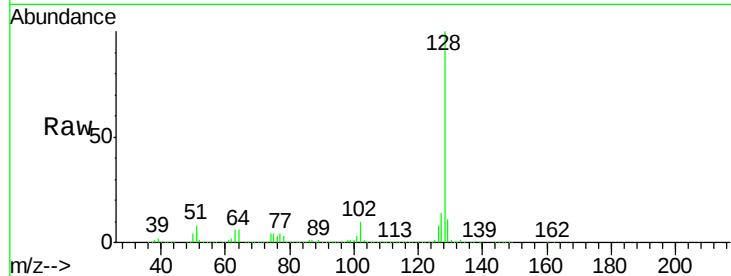
#31
Naphthalene
Concen: 54.22 ng
RT: 8.03 min Scan# 1010
Delta R.T. -0.01 min
Lab File: BF102270.D
Acq: 20 Jan 2018 17:14

Instrument :
BNA_F
ClientSampled :
RT-4248

Tot Ion	Ratio	Lower	Upper
128	100		
129	11.3	8.8	13.2
127	13.9	10.9	16.3

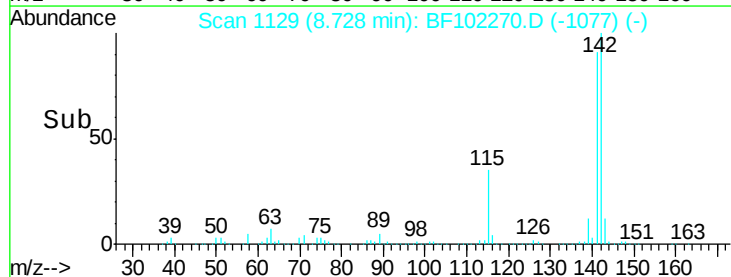
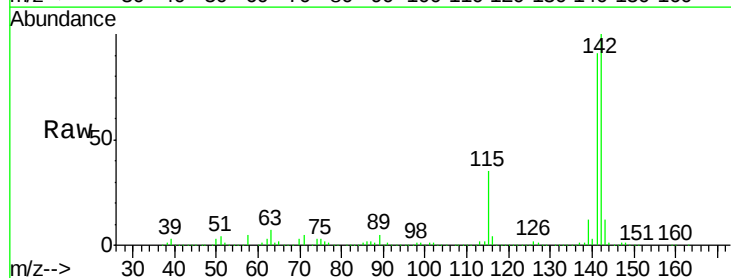
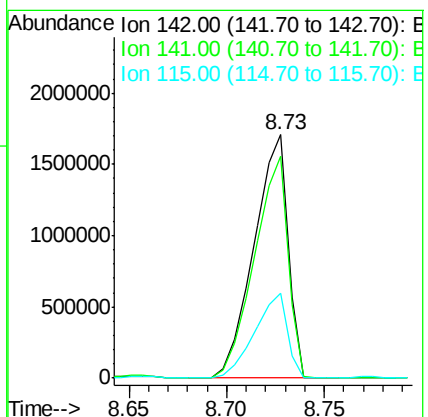
Manual Integrations
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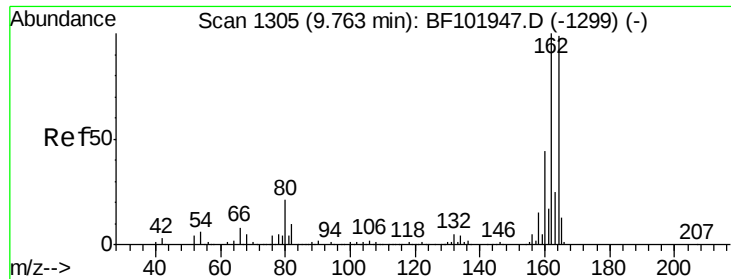
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#37
2-Methylnaphthalene
Concen: 101.78 ng
RT: 8.73 min Scan# 1129
Delta R.T. 0.01 min
Lab File: BF102270.D
Acq: 20 Jan 2018 17:14

Tgt Ion	Ratio	Lower	Upper
142	100		
141	91.3	70.8	106.2
115	34.8	26.1	39.1





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.76 min Scan# 1304

Delta R.T. 0.00 min

Lab File: BF102270.D

Acq: 20 Jan 2018 17:14

Instrument :

BNA_F

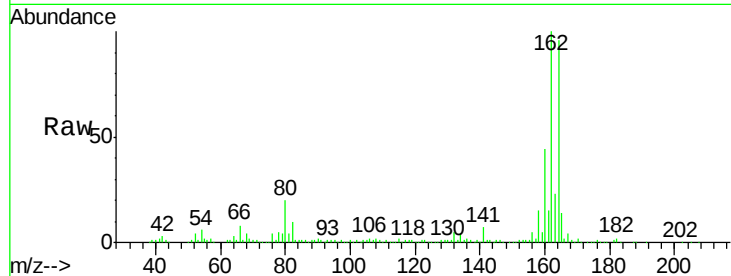
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RT-4248

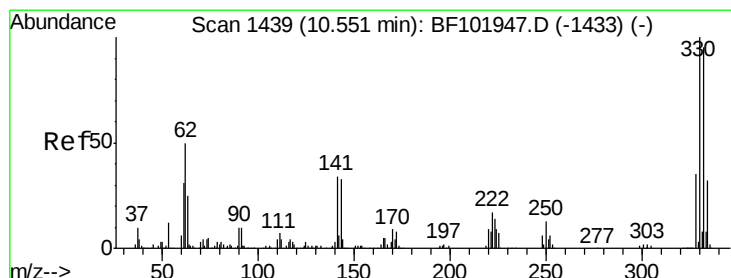
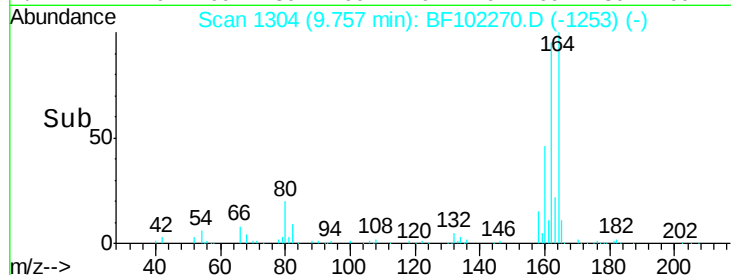
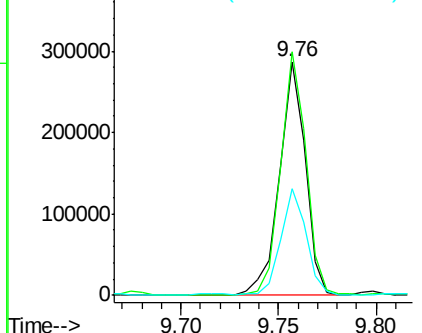
Tot Ion:	164	Resp:	264458
Ion Ratio	Lower	Upper	
164	100		
162	104.3	86.1	129.1
160	45.7	38.3	57.5

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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: 72.82 ng

RT: 10.55 min Scan# 1439

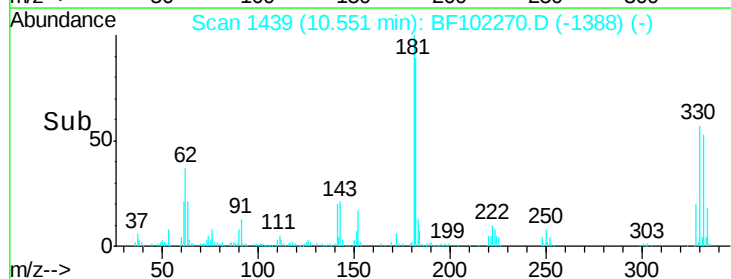
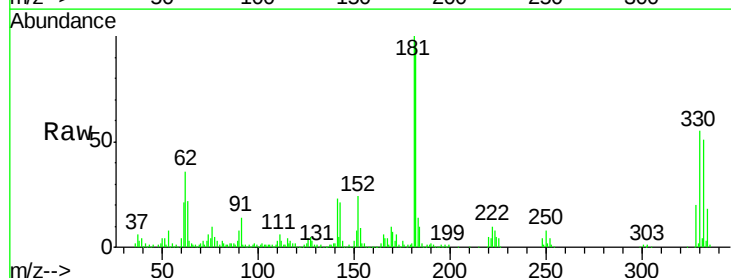
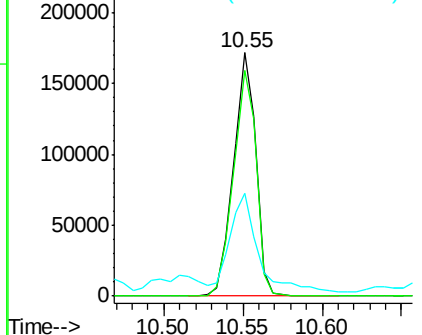
Delta R.T. 0.00 min

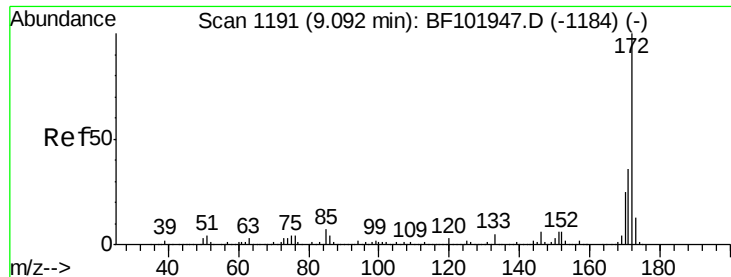
Lab File: BF102270.D

Acq: 20 Jan 2018 17:14

Tgt Ion:	330	Resp:	168056
Ion Ratio	Lower	Upper	
330	100		
332	94.7	77.0	115.6
141	51.1	29.9	44.9#

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: 61.87 ng

RT: 9.08 min Scan# 1189

Delta R.T. -0.01 min

Lab File: BF102270.D

Acq: 20 Jan 2018 17:14

Instrument :

BNA_F

ClientSampleId :

RT-4248

Tot Ion:172 Resp: 1047352

Ion Ratio Lower Upper

172 100

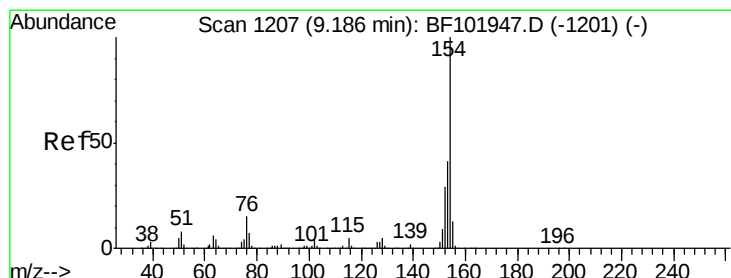
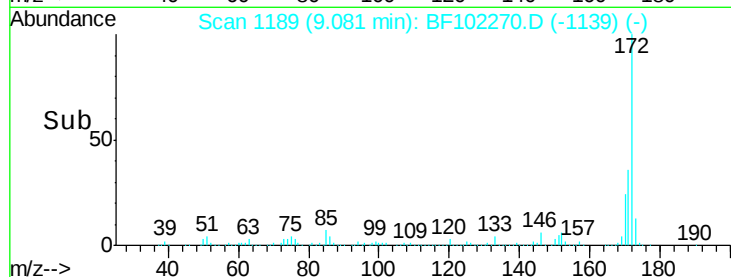
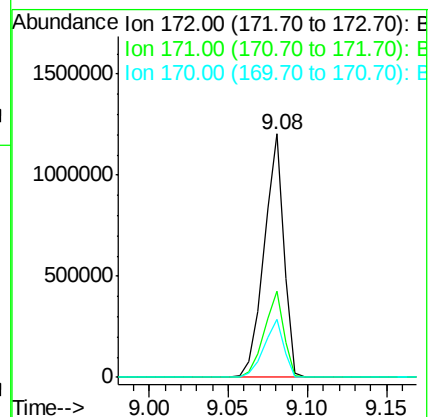
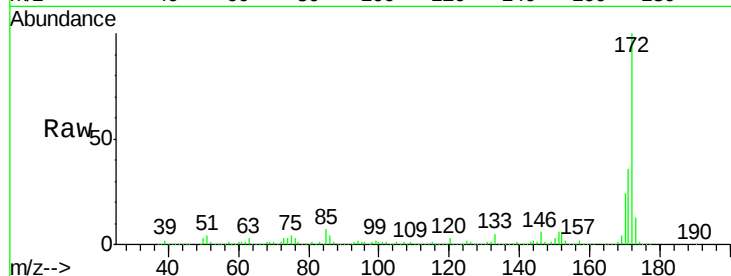
171 35.5 29.7 44.5

170 23.9 19.6 29.4

Manual Integrations
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#45

1,1'-Biphenyl

Concen: 23.37 ng

RT: 9.18 min Scan# 1206

Delta R.T. -0.01 min

Lab File: BF102270.D

Acq: 20 Jan 2018 17:14

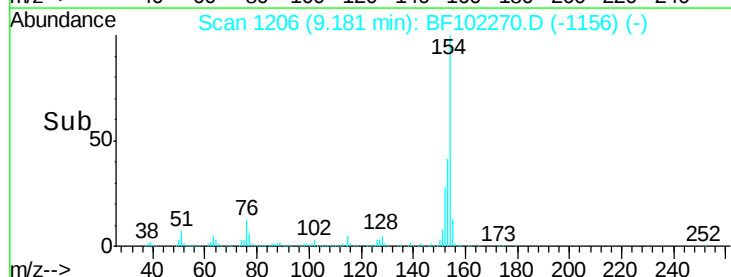
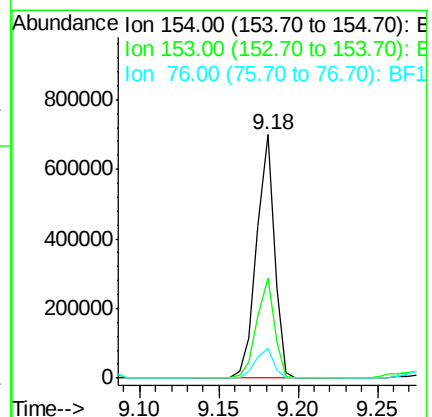
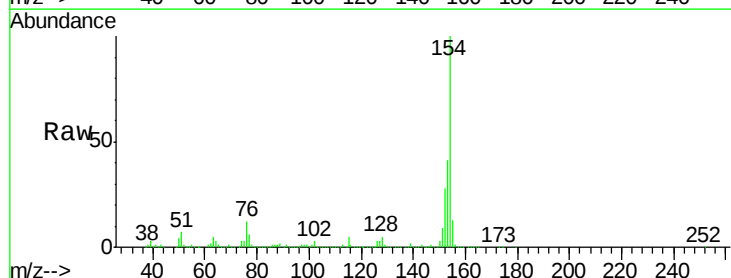
Tgt Ion:154 Resp: 546231

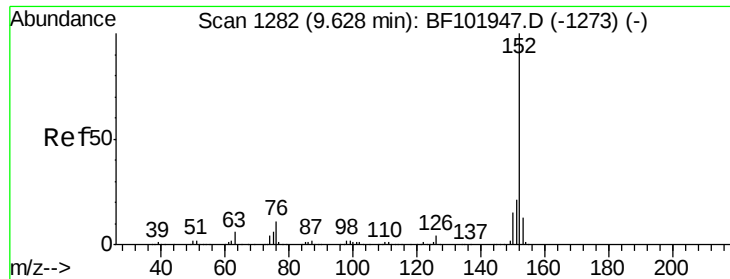
Ion Ratio Lower Upper

154 100

153 41.4 21.3 61.3

76 12.2 0.0 34.0





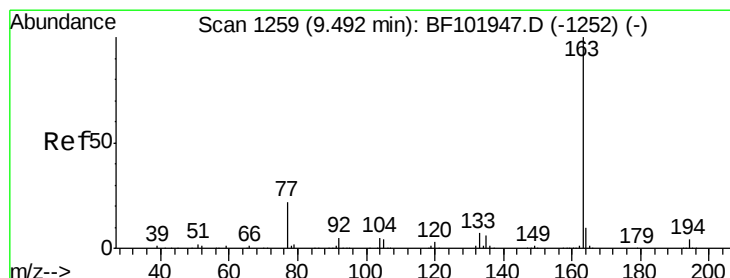
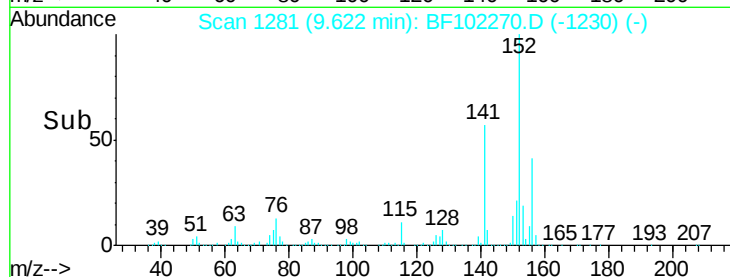
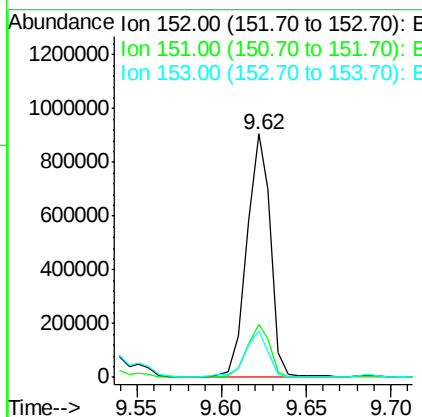
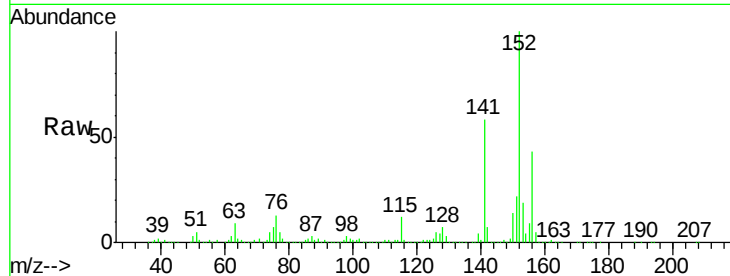
#48
Acenaphthylene
Concen: 30.61 ng
RT: 9.62 min Scan# 1281
Delta R.T. 0.00 min
Lab File: BF102270.D
Acq: 20 Jan 2018 17:14

Instrument :
BNA_F
ClientSampleId :
RT-4248

Tot Ion	Ratio	Resp Lower	Upper
152	100		
151	21.5	16.3	24.5
153	19.1	10.7	16.1

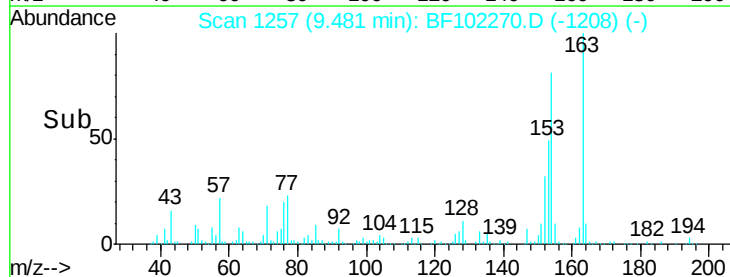
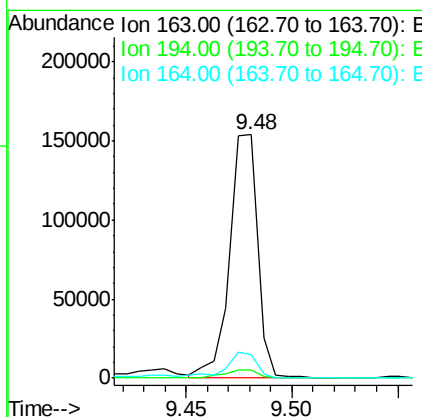
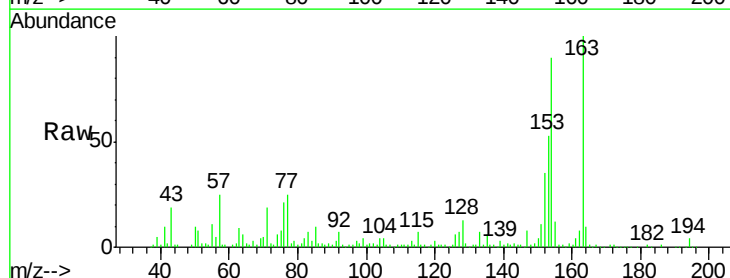
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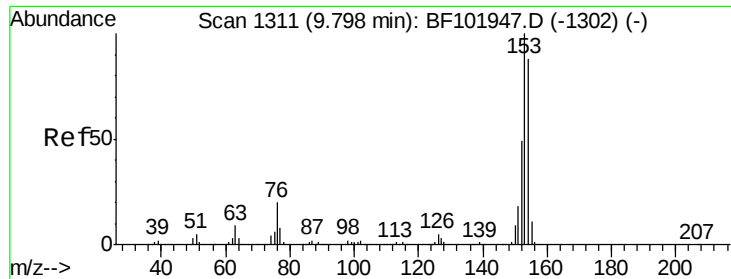
Sohil
1/22/2018 5:25:50 PM



#49
Dimethylphthalate
Concen: 6.54 ng
RT: 9.48 min Scan# 1257
Delta R.T. -0.01 min
Lab File: BF102270.D
Acq: 20 Jan 2018 17:14

Tgt Ion	Ratio	Resp Lower	Upper
163	100		
194	3.6	2.7	4.1
164	9.6	8.2	12.2





#51

Acenaphthene

Concen: 58.91 ng

RT: 9.80 min Scan# 1311

Delta R.T. 0.00 min

Lab File: BF102270.D

Acq: 20 Jan 2018 17:14

Instrument :

BNA_F

ClientSampleId :

RT-4248

Tot Ion:154 Resp: 1028507

Ion Ratio Lower Upper

154 100

153 116.2 91.2 136.8

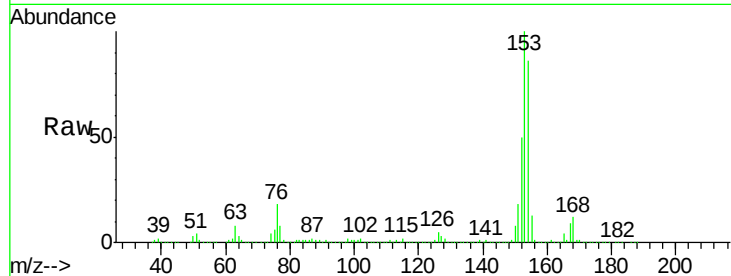
152 57.9 43.8 65.8

Manual Integrations

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Sohil

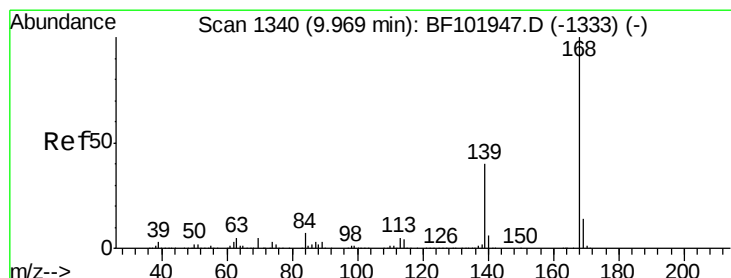
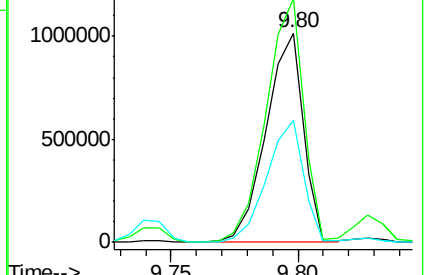
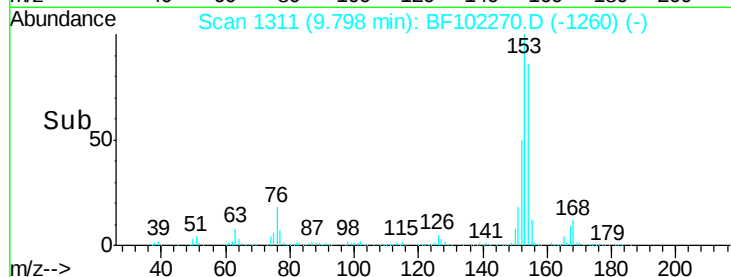
1/22/2018 5:25:50 PM



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: 56.30 ng

RT: 9.97 min Scan# 1340

Delta R.T. 0.00 min

Lab File: BF102270.D

Acq: 20 Jan 2018 17:14

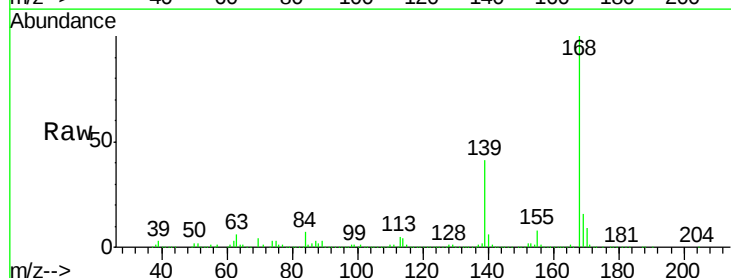
Tgt Ion:168 Resp: 1349071

Ion Ratio Lower Upper

168 100

139 41.2 30.1 45.1

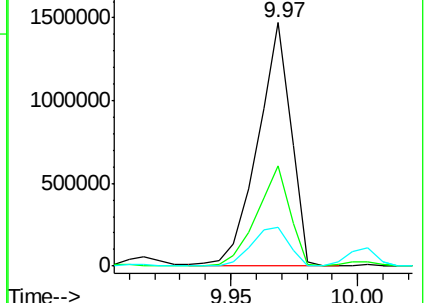
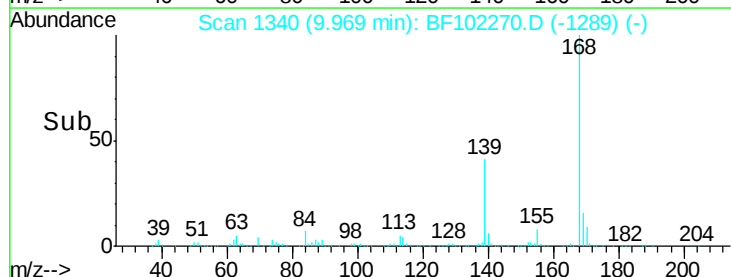
169 15.7 10.9 16.3

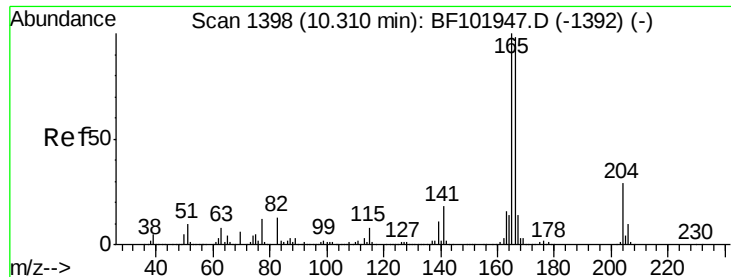


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E





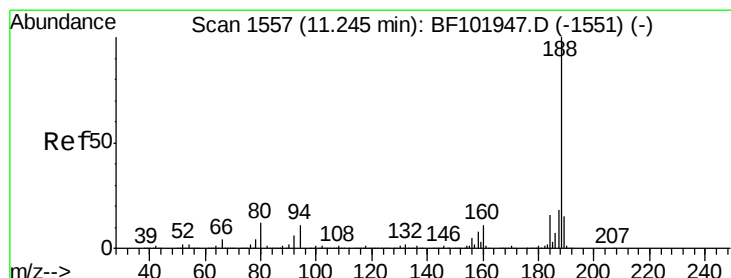
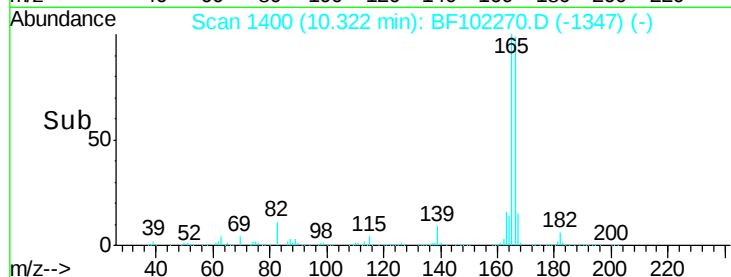
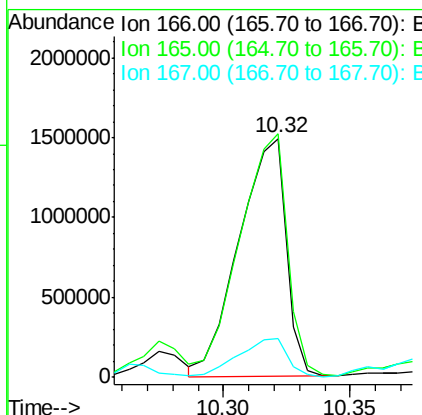
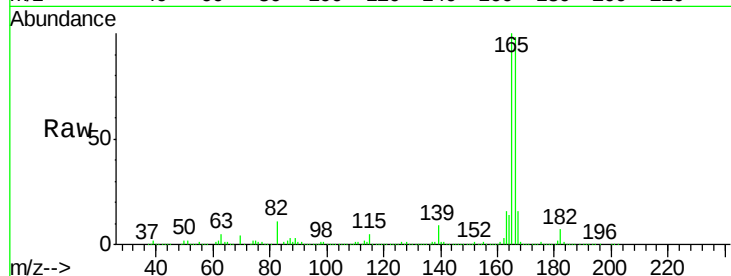
#57
Fluorene
 Concen: 116.62 ng
 RT: 10.32 min Scan# 1400
 Delta R.T. 0.01 min
 Lab File: BF102270.D
 Acq: 20 Jan 2018 17:14

Instrument :
 BNA_F
 ClientSampleId :
 RT-4248

Tot Ion	Ratio	Lower	Upper
166	100		
165	101.9	79.8	119.8
167	16.4	10.6	16.0

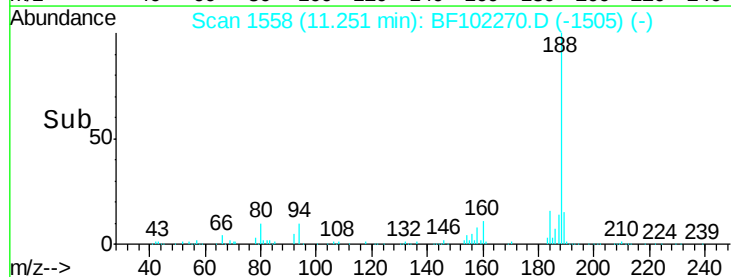
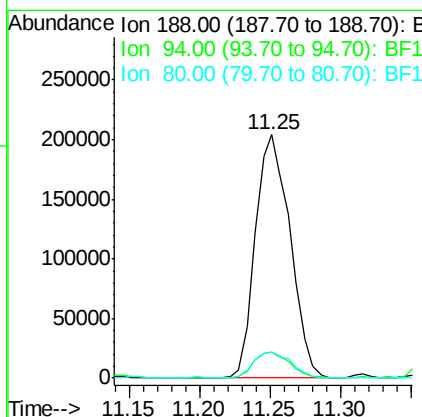
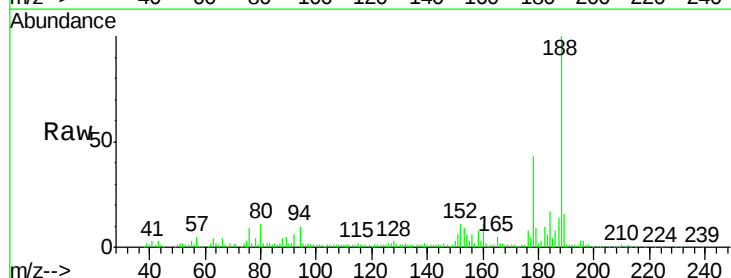
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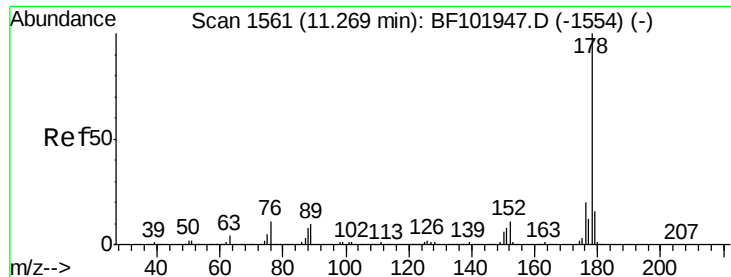
Sohil
 1/22/2018 5:25:50 PM



#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.25 min Scan# 1558
 Delta R.T. 0.01 min
 Lab File: BF102270.D
 Acq: 20 Jan 2018 17:14

Tgt Ion	Ratio	Lower	Upper
188	100		
94	10.5	8.5	12.7
80	10.6	9.2	13.8





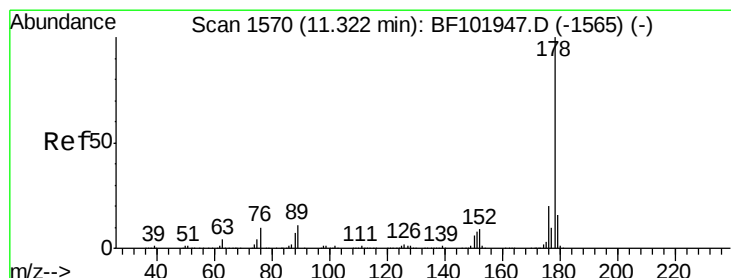
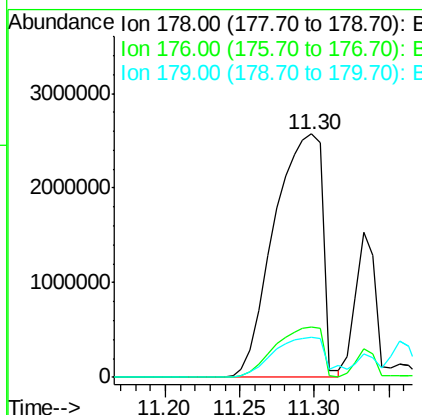
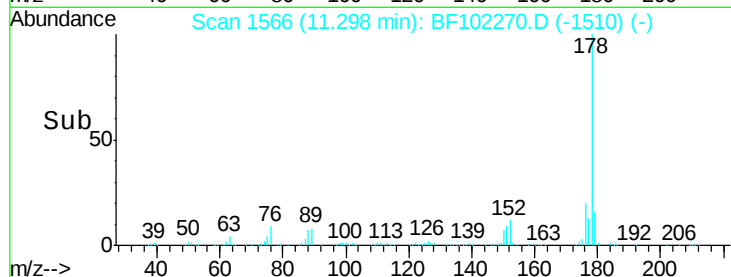
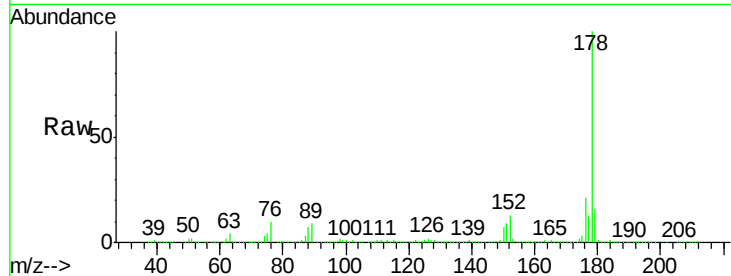
#70
Phenanthrene
Concen: 279.37 ng
RT: 11.30 min Scan# 1566
Delta R.T. 0.03 min
Lab File: BF102270.D
Acq: 20 Jan 2018 17:14

Instrument :
BNA_F
ClientSampleId :
RT-4248

Tot Ion:178 Resp: 5764823
Ion Ratio Lower Upper
178 100
176 20.5 15.8 23.8
179 16.4 13.0 19.6

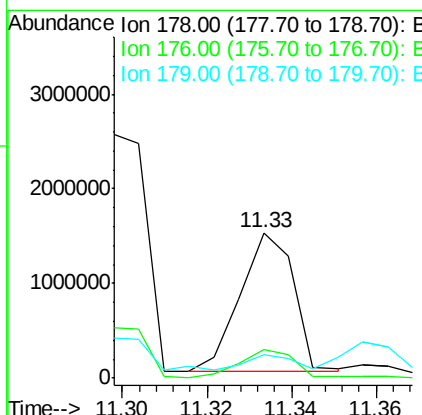
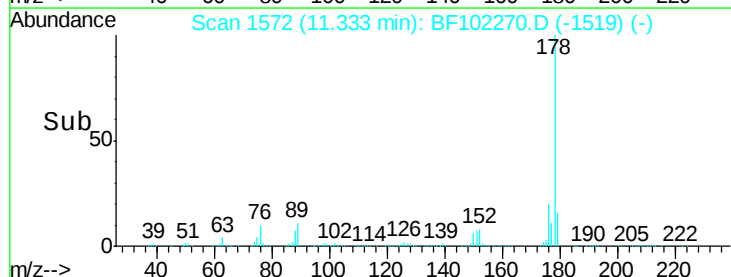
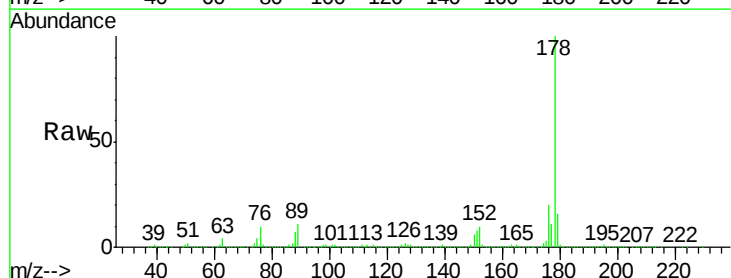
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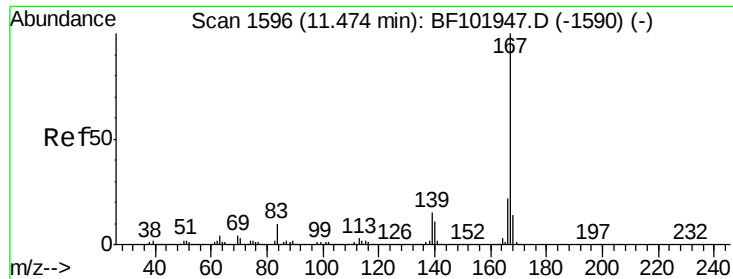
Sohil
1/22/2018 5:25:50 PM



#71
Anthracene
Concen: 61.56 ng
RT: 11.33 min Scan# 1572
Delta R.T. 0.01 min
Lab File: BF102270.D
Acq: 20 Jan 2018 17:14

Tgt Ion:178 Resp: 1288293
Ion Ratio Lower Upper
178 100
176 20.0 15.4 23.2
179 16.3 12.6 19.0





#72

Carbazole

Concen: 16.44 ng

RT: 11.48 min Scan# 1597

Delta R.T. 0.01 min

Lab File: BF102270.D

Acq: 20 Jan 2018 17:14

Instrument :

BNA_F

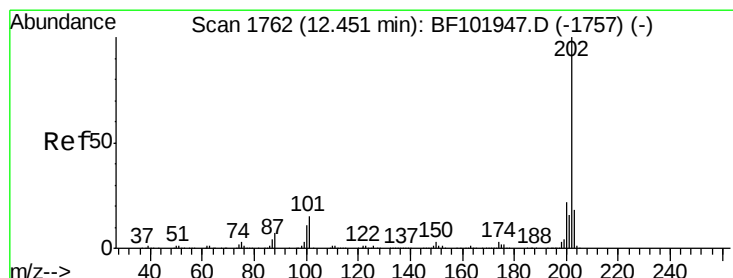
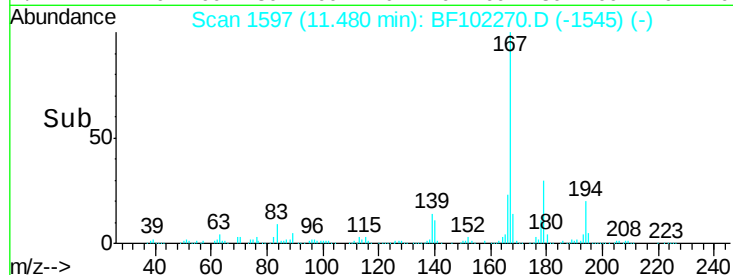
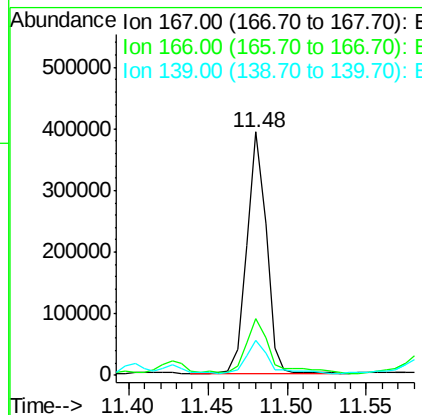
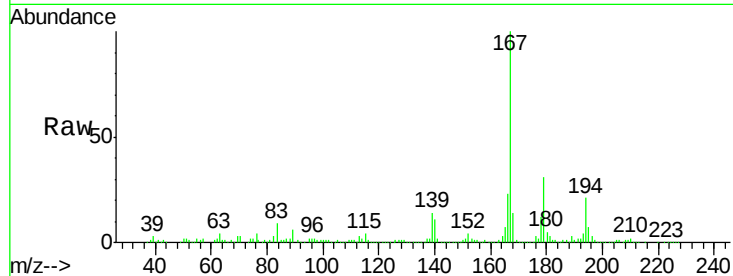
ClientSampled :

RT-4248

Tot Ion	Ratio	Lower	Upper
167	100		
166	23.4	17.6	26.4
139	14.2	10.9	16.3

Manual Integrations
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#74

Fluoranthene

Concen: 157.10 ng

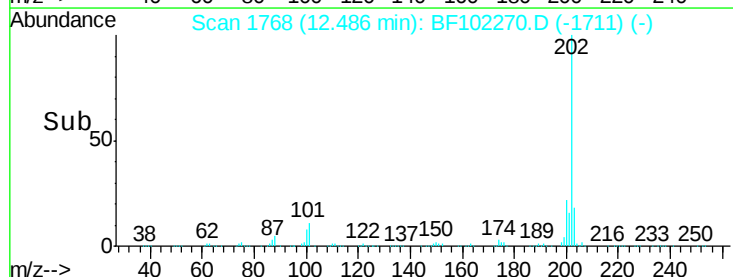
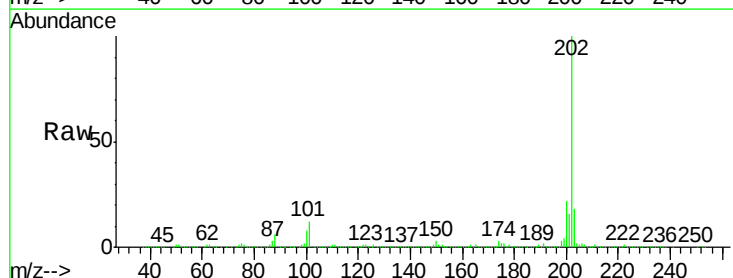
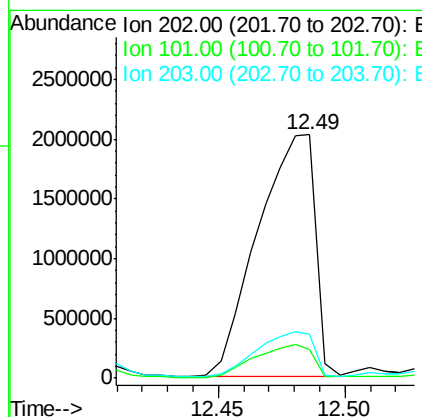
RT: 12.49 min Scan# 1768

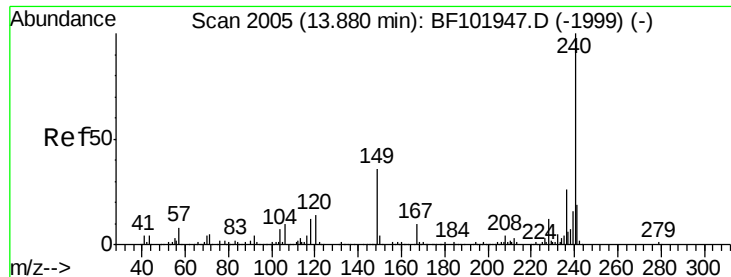
Delta R.T. 0.04 min

Lab File: BF102270.D

Acq: 20 Jan 2018 17:14

Tgt Ion	Ratio	Lower	Upper
202	100		
101	11.6	0.0	34.1
203	17.9	0.0	38.1





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.90 min Scan# 2008

Delta R.T. 0.02 min

Lab File: BF102270.D

Acq: 20 Jan 2018 17:14

Instrument :

BNA_F

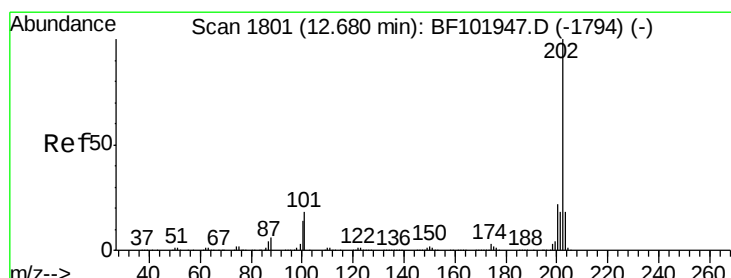
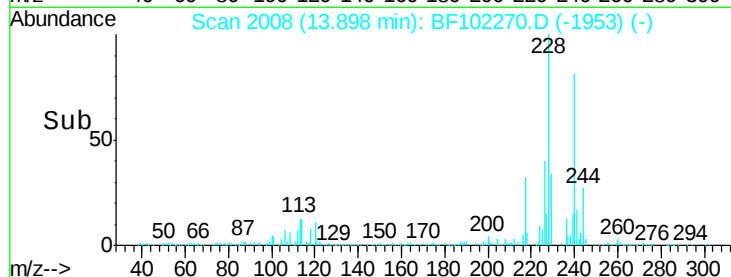
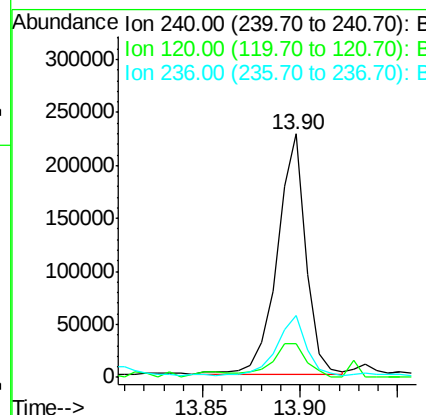
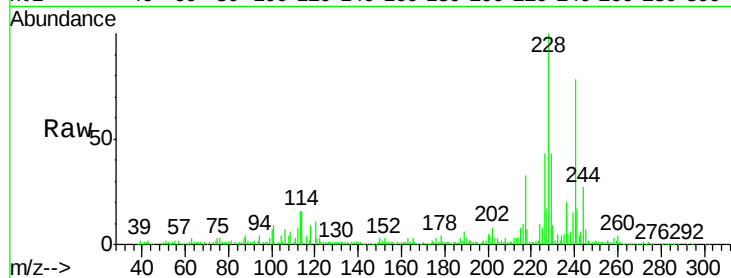
ClientSampleId :

RT-4248

Tot Ion	Ratio	Lower	Upper
240	100		
120	13.6	9.5	14.3
236	25.6	20.7	31.1

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#77

Pyrene

Concen: 174.54 ng

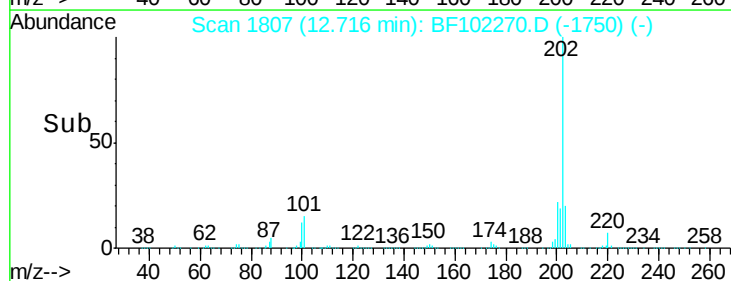
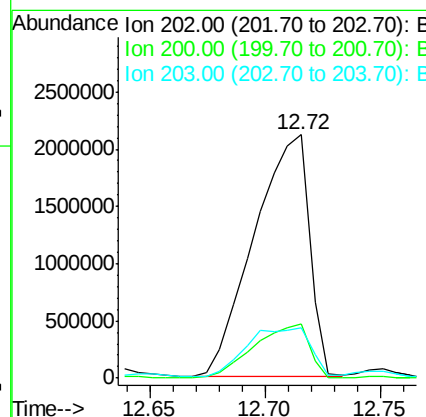
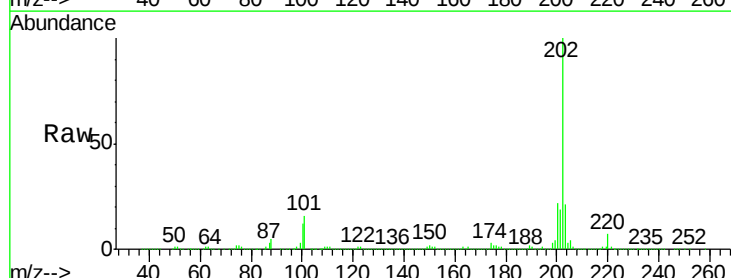
RT: 12.72 min Scan# 1807

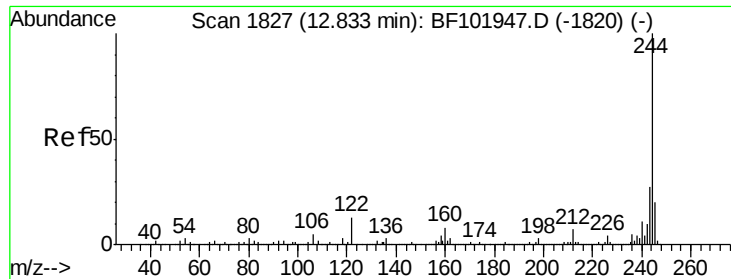
Delta R.T. 0.04 min

Lab File: BF102270.D

Acq: 20 Jan 2018 17:14

Tgt Ion	Ratio	Lower	Upper
202	100		
200	22.3	17.4	26.2
203	20.7	14.3	21.5





#78

Terphenyl-d14

Concen: 62.45 ng

RT: 12.83 min Scan# 1827

Delta R.T. 0.01 min

Lab File: BF102270.D

Acq: 20 Jan 2018 17:14

Instrument :

BNA_F

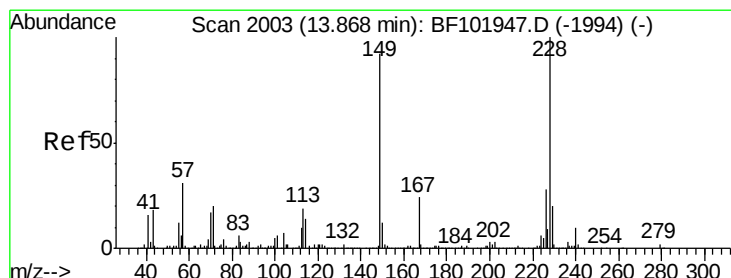
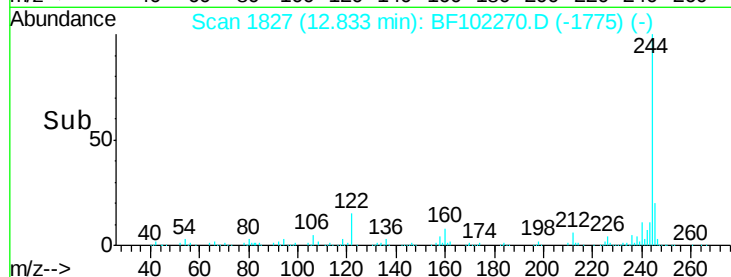
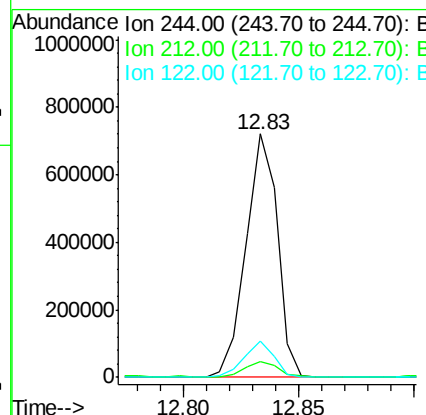
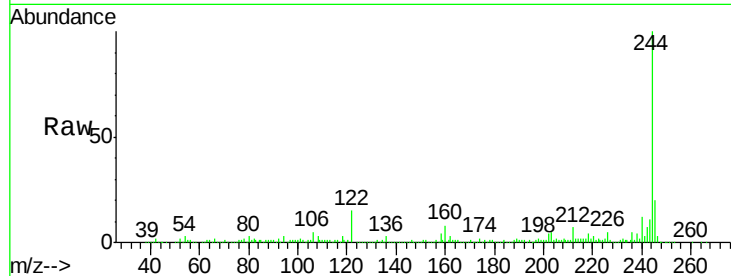
ClientSampled :

RT-4248

Tot Ion:	244	Resp:	686376
Ion Ratio		Lower	Upper
244	100		
212	6.5	5.4	8.0
122	14.8	11.0	16.4

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#80

Benzo(a)anthracene

Concen: 101.91 ng m

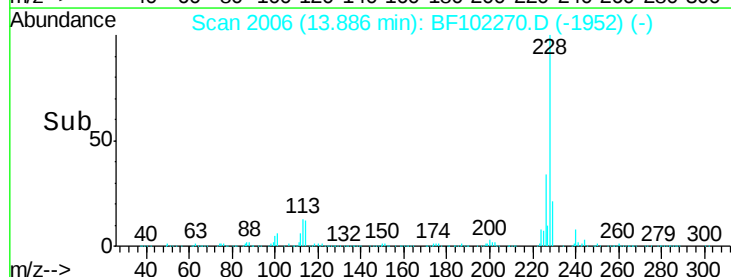
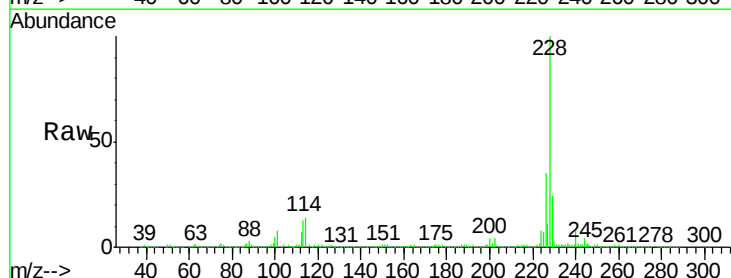
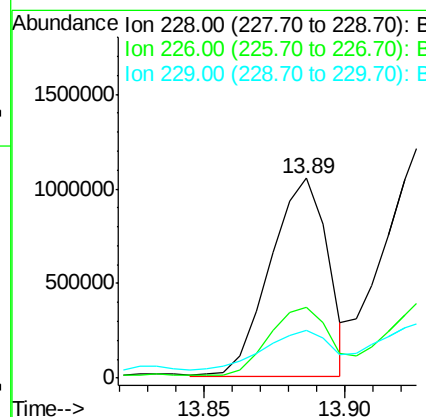
RT: 13.89 min Scan# 2006

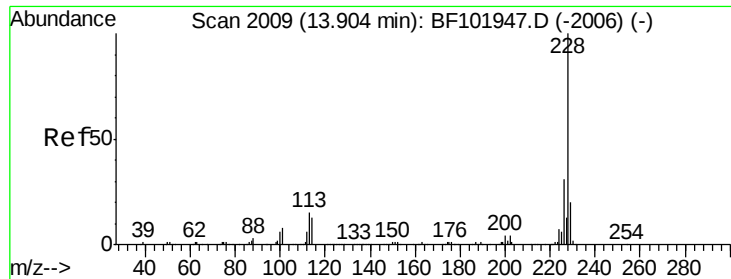
Delta R.T. 0.02 min

Lab File: BF102270.D

Acq: 20 Jan 2018 17:14

Tgt Ion:	228	Resp:	1483761
Ion Ratio		Lower	Upper
228	100		
226	35.3	22.6	33.8#
229	23.7	15.8	23.6#





#82

Chrysene

Concen: 105.22 ng/mL

RT: 13.93 min Scan# 2013

Delta R.T. 0.02 min

Lab File: BF102270.D

Acq: 20 Jan 2018 17:14

Instrument :

BNA_F

ClientSampleId :

RT-4248

Tot Ion: 228 Resp: 1597303

Ion Ratio Lower Upper

228 100

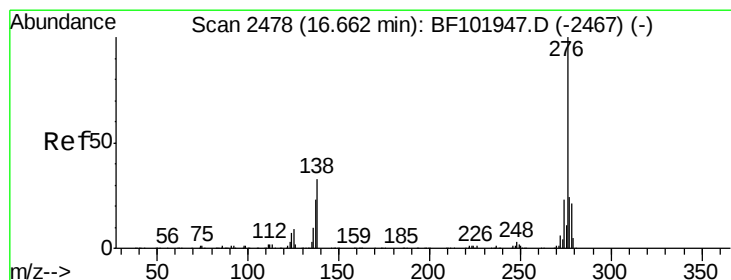
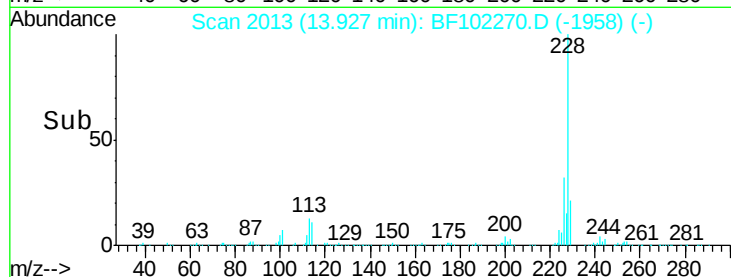
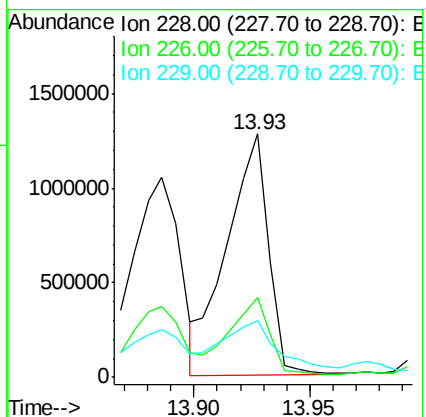
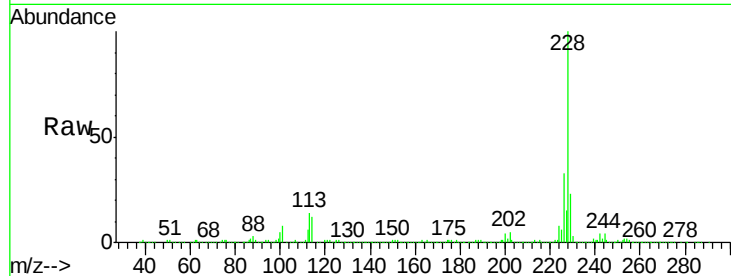
226 32.9 25.0 37.6

229 23.3 16.2 24.4

Manual Integrations
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Sohil

1/22/2018 5:25:50 PM



#85

Indeno(1,2,3-cd)pyrene

Concen: 26.43 ng/mL

RT: 16.71 min Scan# 2486

Delta R.T. 0.03 min

Lab File: BF102270.D

Acq: 20 Jan 2018 17:14

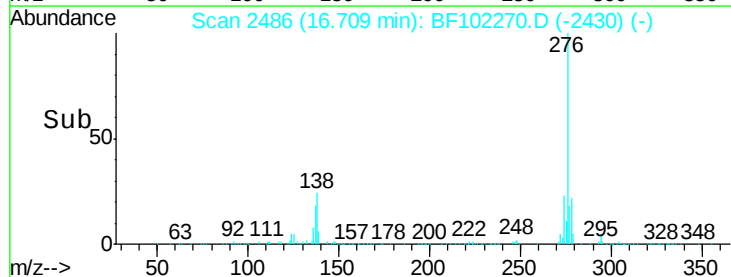
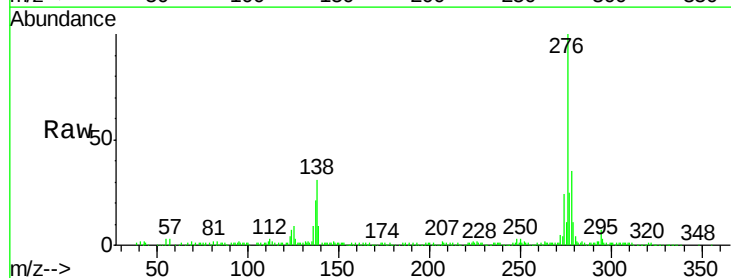
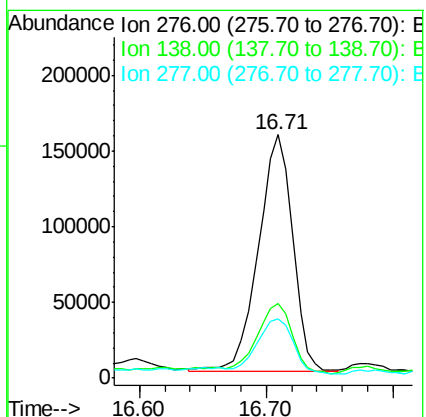
Tgt Ion: 276 Resp: 292059

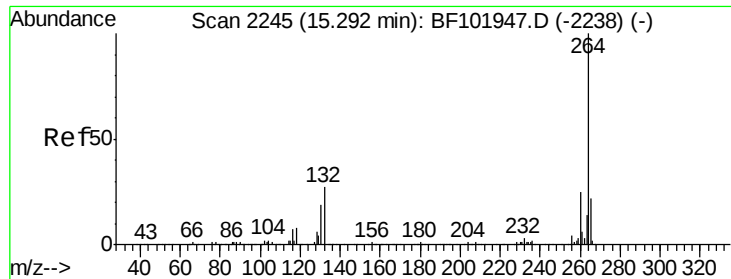
Ion Ratio Lower Upper

276 100

138 33.2 25.0 37.6

277 24.6 20.1 30.1





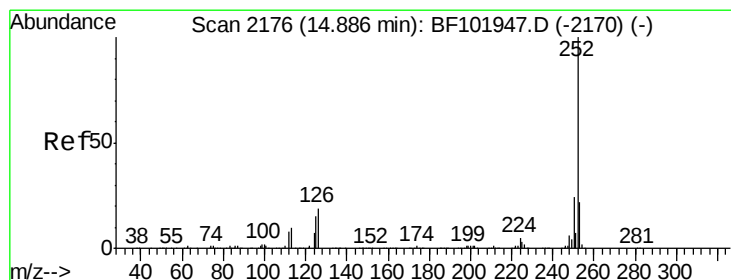
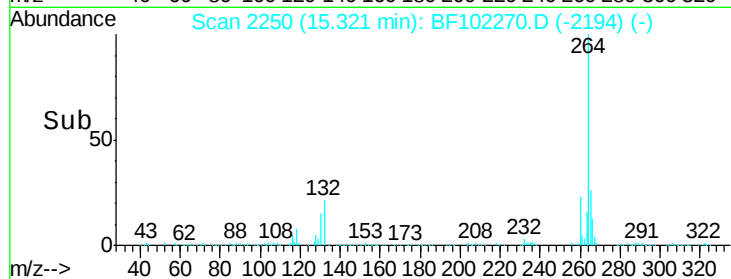
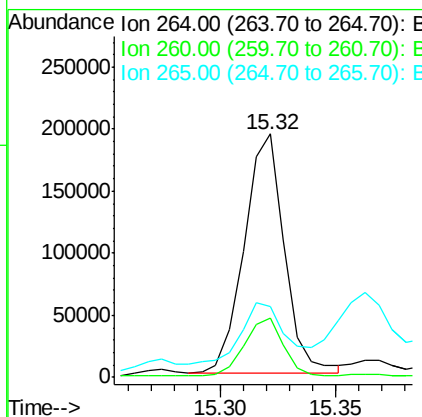
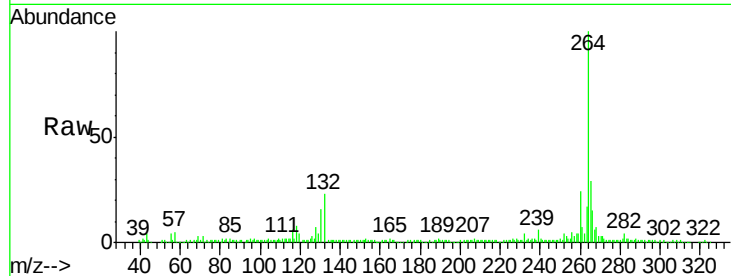
#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.32 min Scan# 2250
Delta R.T. 0.03 min
Lab File: BF102270.D
Acq: 20 Jan 2018 17:14

Instrument :
BNA_F
ClientSampled :
RT-4248

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.4	19.2	28.8
265	28.9	17.5	26.3

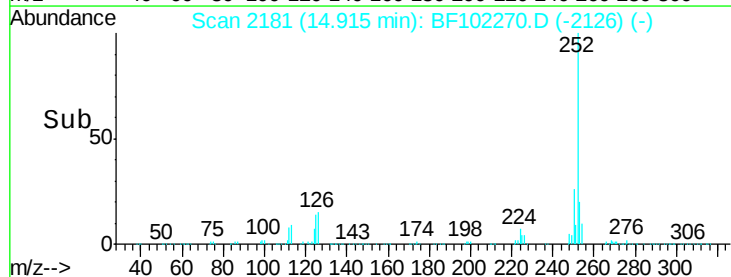
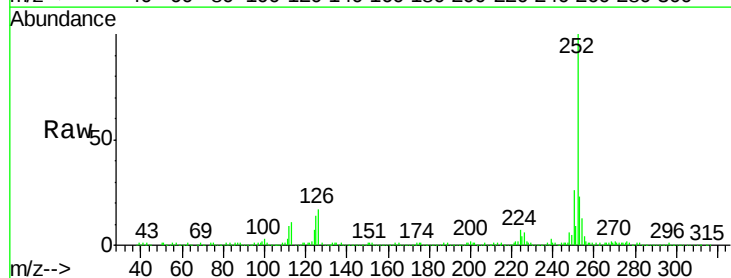
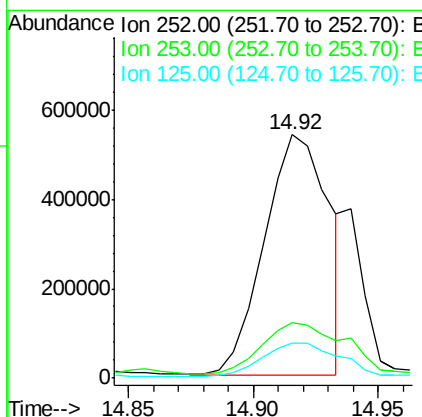
Manual Integrations
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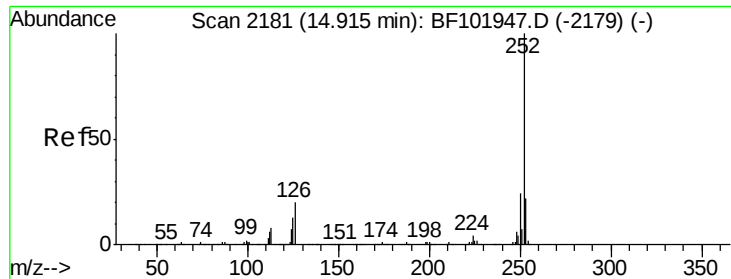
Sohil
1/22/2018 5:25:50 PM



#87
Benzo(b)fluoranthene
Concen: 64.18 ng m
RT: 14.92 min Scan# 2181
Delta R.T. 0.02 min
Lab File: BF102270.D
Acq: 20 Jan 2018 17:14

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.0	25.6
125	14.4	9.0	13.6





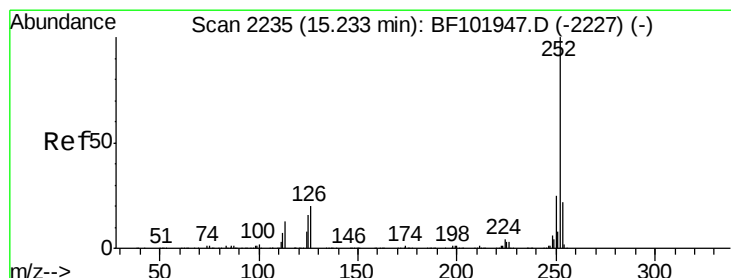
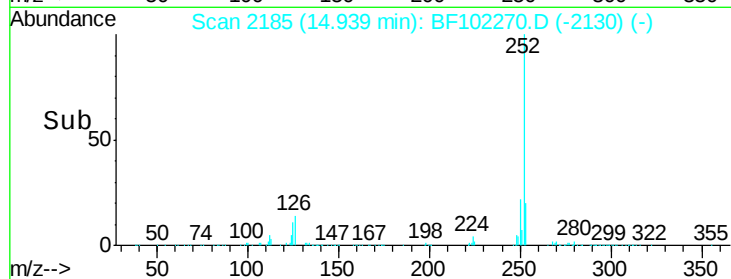
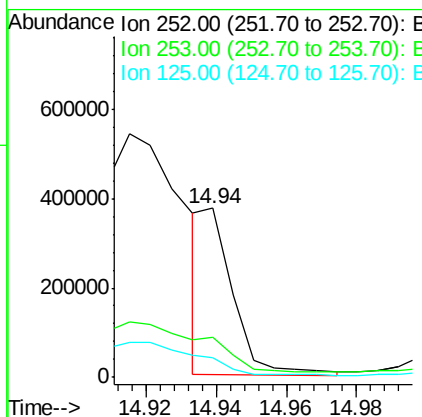
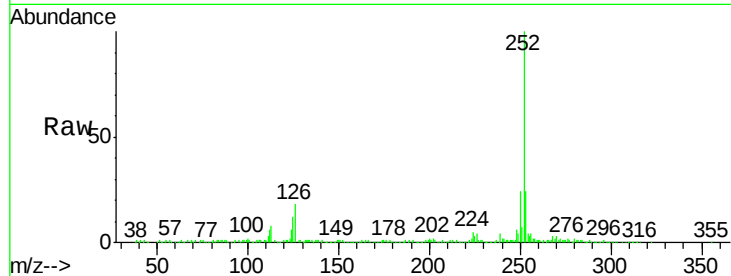
#88
Benzo(k)fluoranthene
Concen: 15.24 ng m
RT: 14.94 min Scan# 2185
Delta R.T. 0.02 min
Lab File: BF102270.D
Acq: 20 Jan 2018 17:14

Instrument :
BNA_F
ClientSampleId :
RT-4248

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.0	17.9	26.9
125	11.9	10.2	15.2

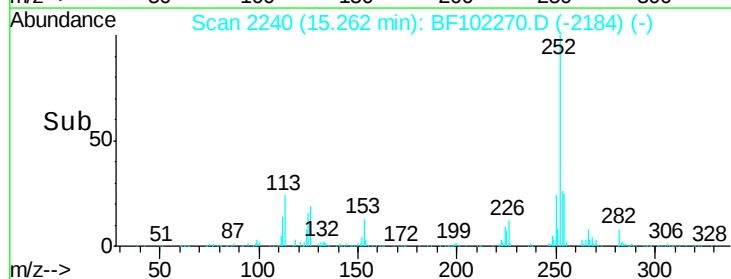
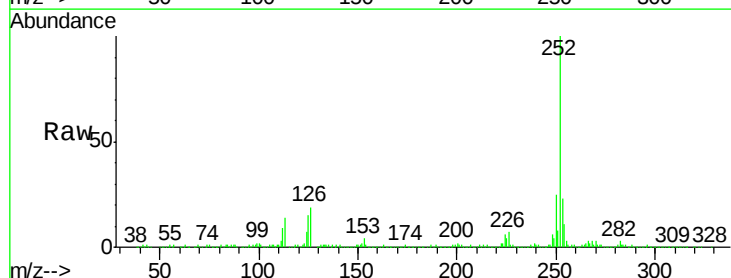
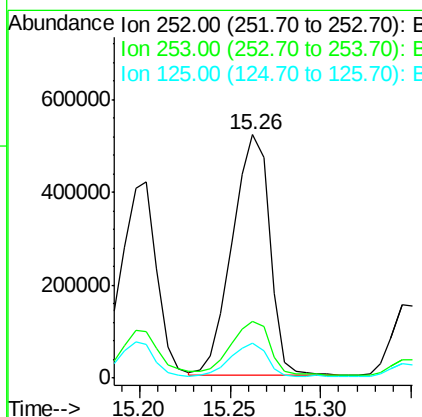
Manual Integrations
APPROVED

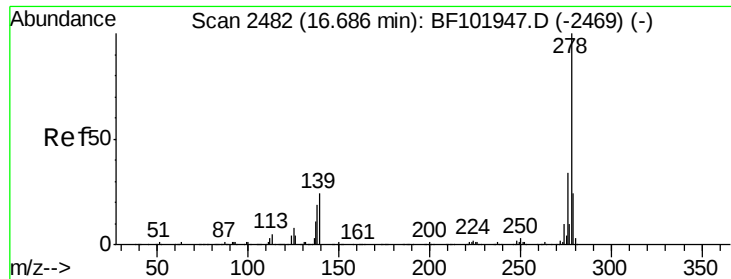
Sohil
1/22/2018 5:25:50 PM



#89
Benzo(a)pyrene
Concen: 54.36 ng
RT: 15.26 min Scan# 2240
Delta R.T. 0.03 min
Lab File: BF102270.D
Acq: 20 Jan 2018 17:14

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.5	17.1	25.7
125	14.6	9.8	14.6





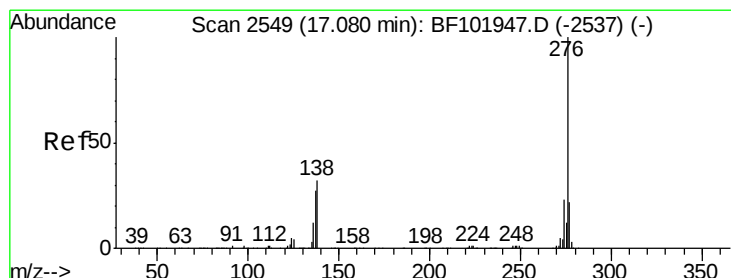
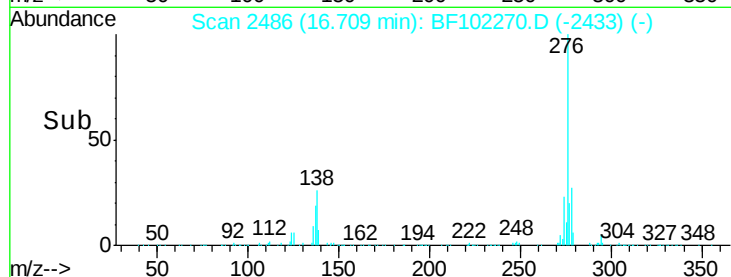
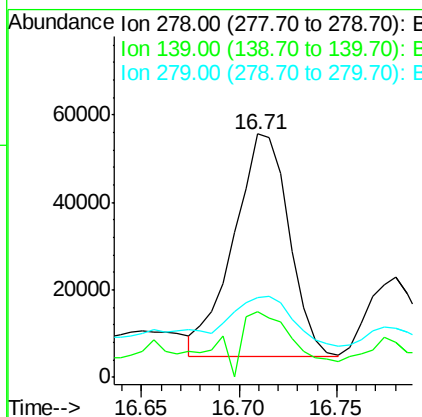
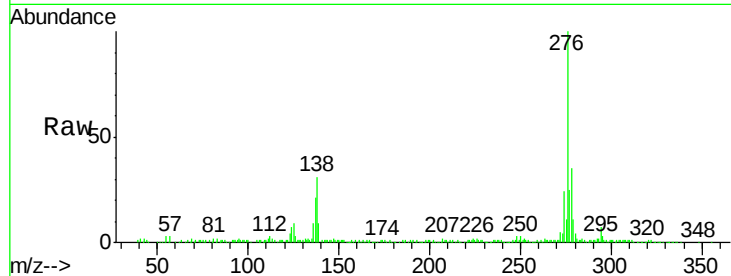
#90
Dibenzo(a,h)anthracene
Concen: 9.18 ng
RT: 16.71 min Scan# 2486
Delta R.T. 0.01 min
Lab File: BF102270.D
Acq: 20 Jan 2018 17:14

Instrument :
BNA_F
ClientSampleId :
RT-4248

Tot Ion	Ratio	Lower	Upper
278	100		
139	26.9	15.9	23.9#
279	32.7	19.0	28.4#

Manual Integrations
APPROVED

Sohil
1/22/2018 5:25:50 PM



#91
Benzo(g,h,i)perylene
Concen: 30.02 ng
RT: 17.13 min Scan# 2558
Delta R.T. 0.04 min
Lab File: BF102270.D
Acq: 20 Jan 2018 17:14

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.5	17.9	26.9
138	28.7	21.8	32.8

