

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF021218\
 Data File : BF102942.D
 Acq On : 13 Feb 2018 1:53
 Operator : SJ/JU
 Sample : J1522-05 50X
 Misc :
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SP-09

Manual Integrations
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Sohil
 2/13/2018 11:26:33 AM

Quant Time: Feb 13 02:49:33 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF020318.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Feb 05 12:44:16 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.88	152	162096	20.00	ng	0.00
21) Naphthalene-d8	8.17	136	647834	20.00	ng	0.00
38) Acenaphthene-d10	9.92	164	267646	20.00	ng	0.00
63) Phenanthrene-d10	11.41	188	385310	20.00	ng	0.00
75) Chrysene-d12	14.05	240	292588	20.00	ng	0.00
86) Perylene-d12	15.54	264	267097	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.50	112	3708	0.35	ng	0.00
7) Phenol-d6	6.50	99	5152	0.40	ng	0.00
23) Nitrobenzene-d5	7.44	82	3558	0.38	ng	-0.01
41) 2,4,6-Tribromophenol	10.71	330	505	0.23	ng	0.00
44) 2-Fluorobiphenyl	9.24	172	6910	0.43	ng	0.00
78) Terphenyl-d14	12.99	244	5420	0.44	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.19	128	2478214	78.296	ng	98
37) 2-Methylnaphthalene	8.88	142	320281	15.455	ng	99
45) 1,1'-Biphenyl	9.34	154	105663	4.687	ng	97
48) Acenaphthylene	9.78	152	595417	21.601	ng	100
51) Acenaphthene	9.95	154	36178	2.195	ng	99
54) Dibenzofuran	10.13	168	391430	16.849	ng	99
57) Fluorene	10.47	166	438995	25.972	ng	98
70) Phenanthrene	11.44	178	1501840	69.986	ng	99
71) Anthracene	11.49	178	601237	27.547	ng	98
72) Carbazole	11.64	167	237966	11.129	ng	100
74) Fluoranthene	12.63	202	1121820	51.959	ng	98
77) Pyrene	12.86	202	890804	38.826	ng	100
80) Benzo(a)anthracene	14.04	228	459923m	24.994	ng	
82) Chrysene	14.08	228	389268	20.986	ng	97
85) Indeno(1,2,3-cd)pyrene	17.03	276	126180	8.202	ng	97
87) Benzo(b)fluoranthene	15.10	252	406079m	23.450	ng	
88) Benzo(k)fluoranthene	15.13	252	176144m	10.646	ng	
89) Benzo(a)pyrene	15.47	252	307661	19.738	ng	# 96
90) Dibenzo(a,h)anthracene	17.04	278	35653m	2.818	ng	
91) Benzo(a,h,i)perylene	17.49	276	109463	8.839	ng	97

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

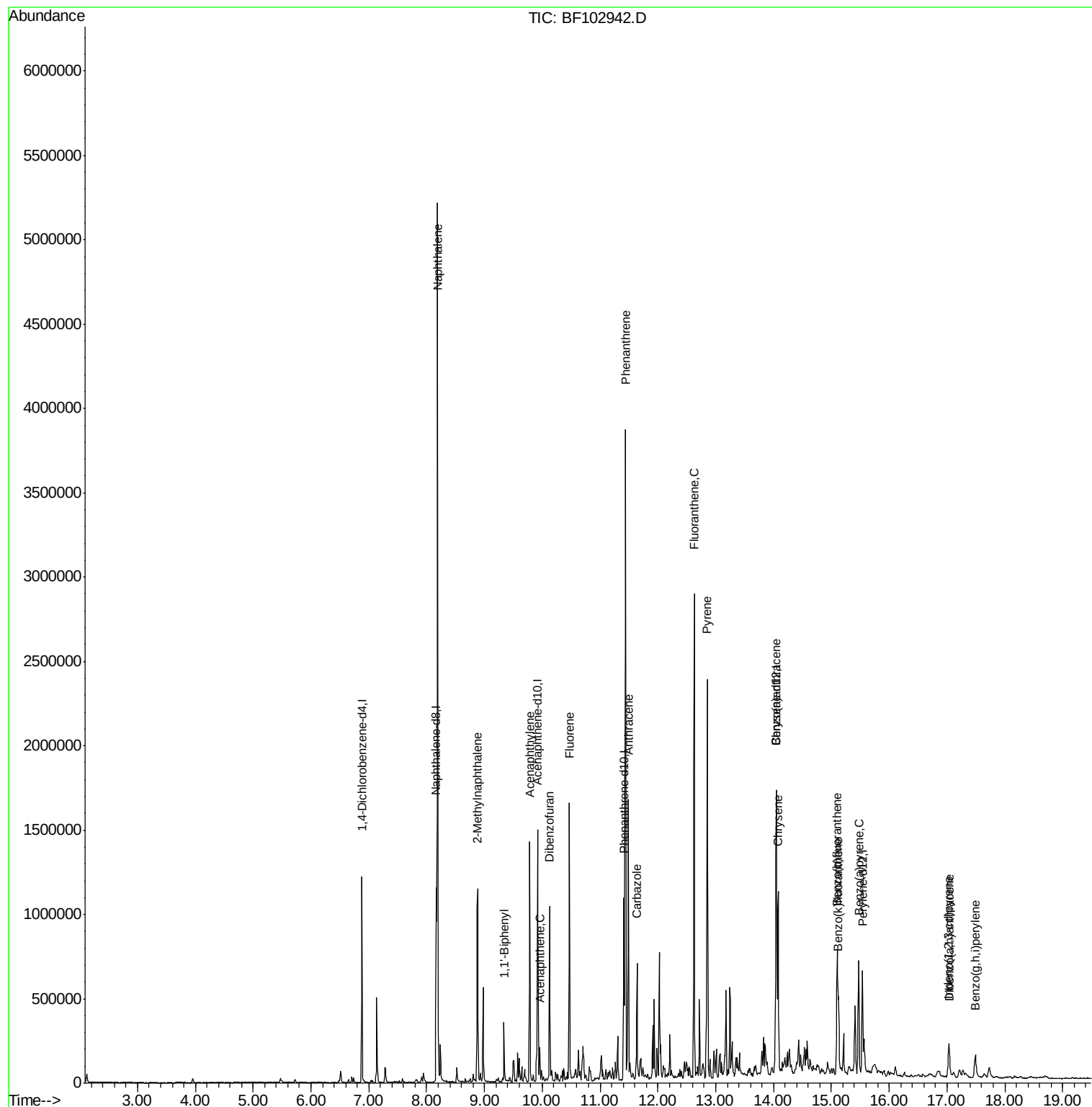
Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF021218\
Data File : BF102942.D
Acq On : 13 Feb 2018 1:53
Operator : SJ/JU
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Misc :
ALS Vial : 35 Sample Multiplier: 1

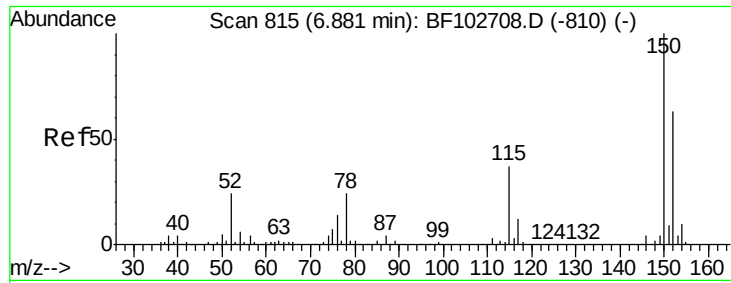
Instrument :
BNA_F
ClientSampleId :
SP-09

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Quant Time: Feb 13 02:49:33 2018
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF020318.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Feb 05 12:44:16 2018
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#1

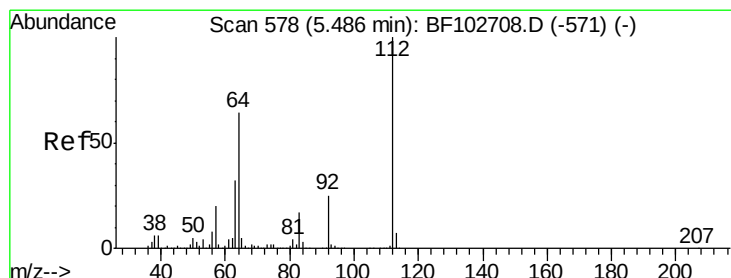
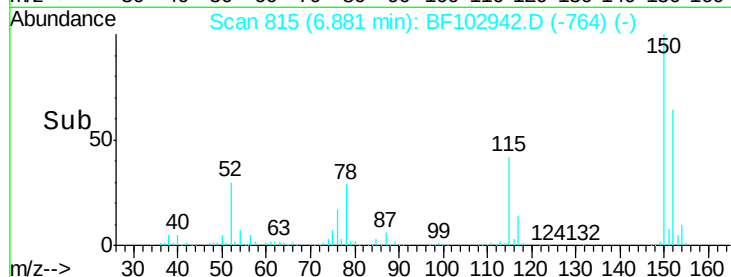
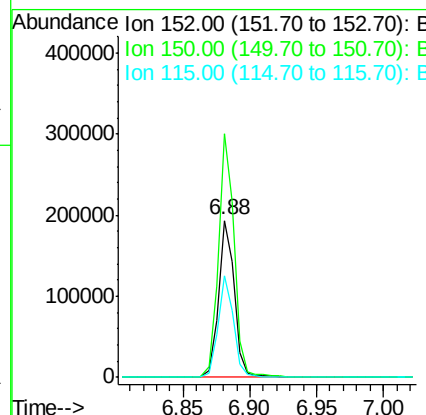
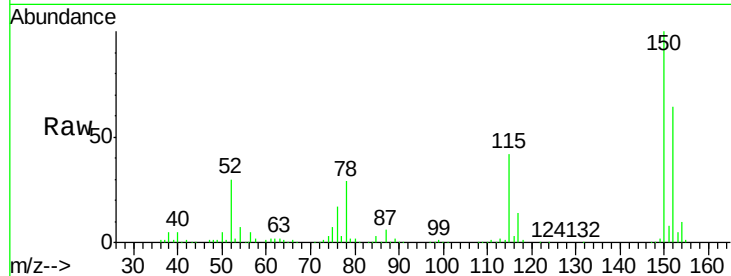
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.88 min Scan# 815
Delta R.T. 0.00 min
Lab File: BF102942.D
Acq: 13 Feb 2018 1:53

Instrument :
BNA_F
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Tot Ion	Ratio	Lower	Upper
152	100		
150	155.5	124.6	186.8
115	64.9	50.1	75.1

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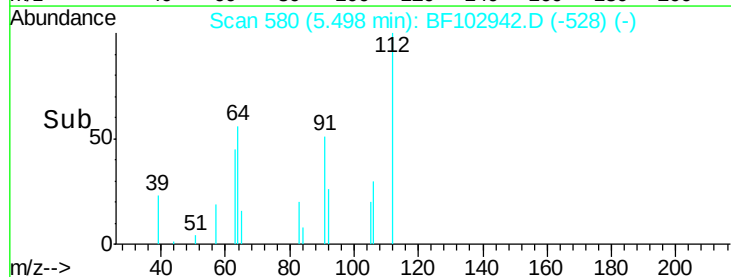
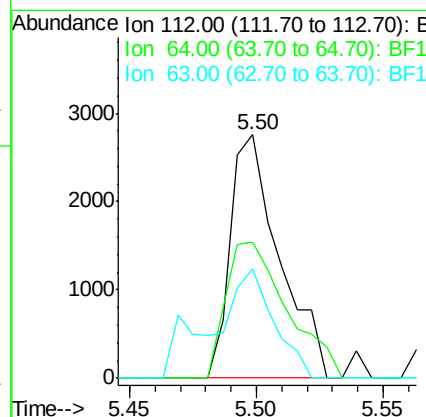
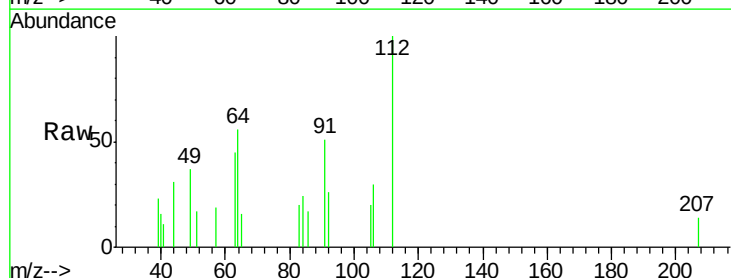
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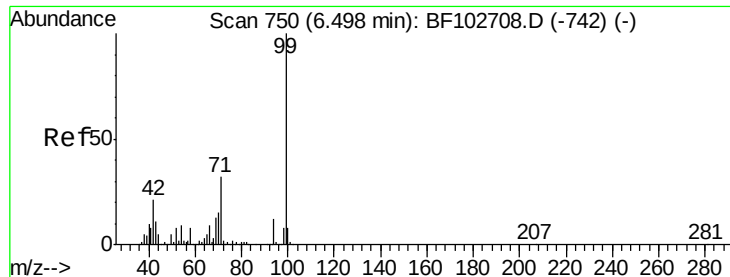


#5

2-Fluorophenol
Concen: 0.347 ng
RT: 5.50 min Scan# 580
Delta R.T. 0.01 min
Lab File: BF102942.D
Acq: 13 Feb 2018 1:53

Tgt Ion	Ratio	Lower	Upper
112	100		
64	55.9	47.9	71.9
63	44.7	23.7	35.5





#7

Phenol-d6

Concen: 0.401 ng

RT: 6.50 min Scan# 750

Delta R.T. -0.01 min

Lab File: BF102942.D

Acq: 13 Feb 2018 1:53

Instrument :

BNA_F

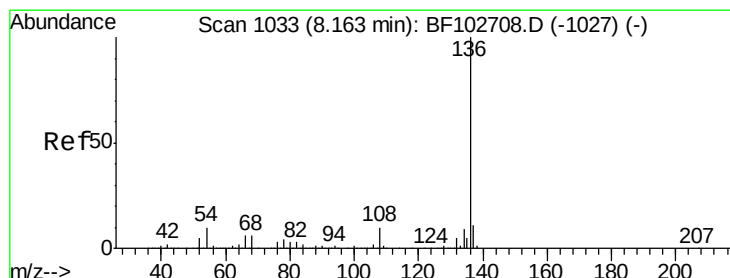
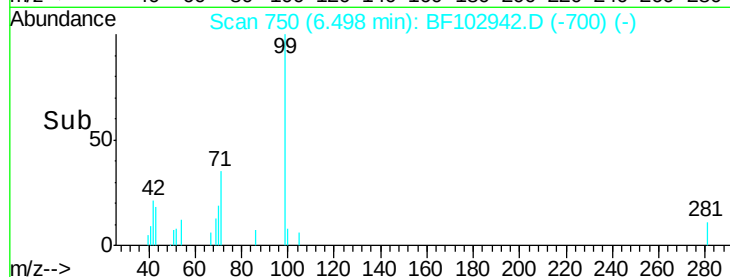
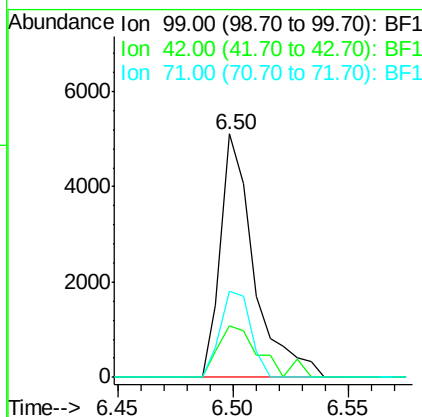
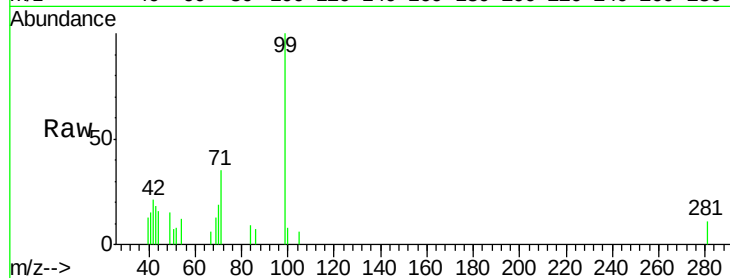
ClientSampled :

SP-09

Tot Ion:	99	Resp:	5152
Ion Ratio	Lower	Upper	
99	100		
42	21.4	14.5	21.7
71	35.3	25.4	38.0

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#21

Naphthalene-d8

Concen: 20.000 ng

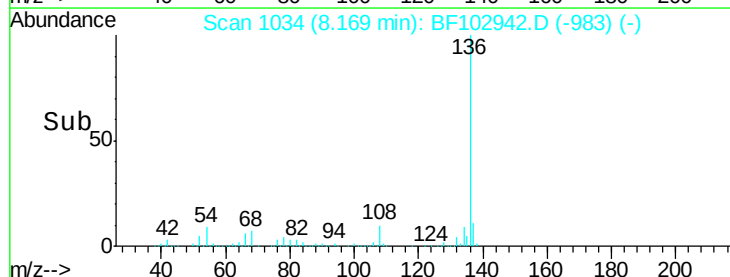
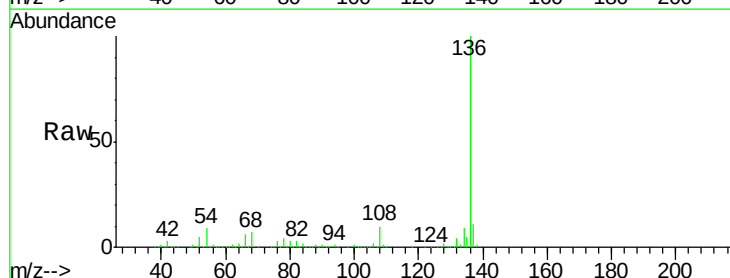
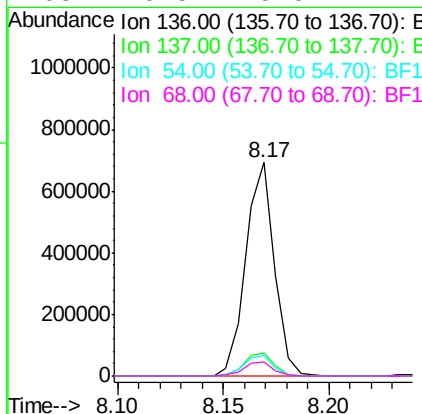
RT: 8.17 min Scan# 1034

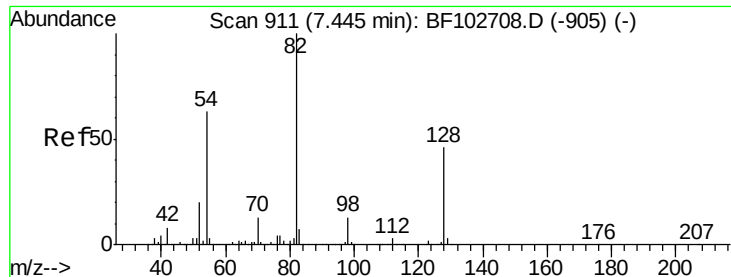
Delta R.T. 0.00 min

Lab File: BF102942.D

Acq: 13 Feb 2018 1:53

Tgt Ion:	136	Resp:	647834
Ion Ratio	Lower	Upper	
136	100		
137	10.9	8.9	13.3
54	9.4	6.6	9.8
68	6.5	5.0	7.4





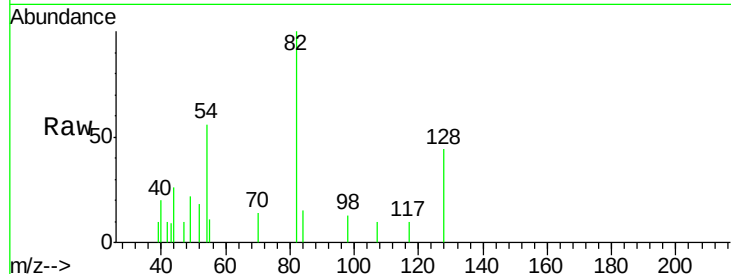
#23
Nitrobenzene-d5
Concen: 0.381 ng
RT: 7.44 min Scan# 910
Delta R.T. -0.01 min
Lab File: BF102942.D
Acq: 13 Feb 2018 1:53

Instrument :
BNA_F
ClientSampled :
SP-09

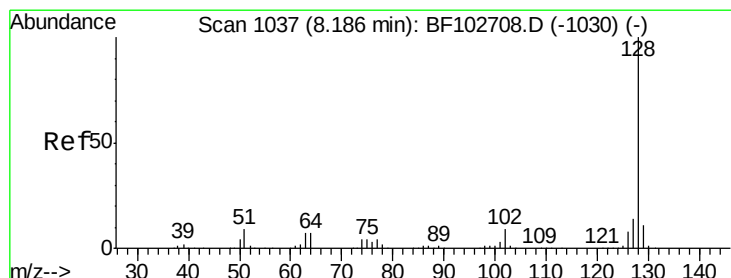
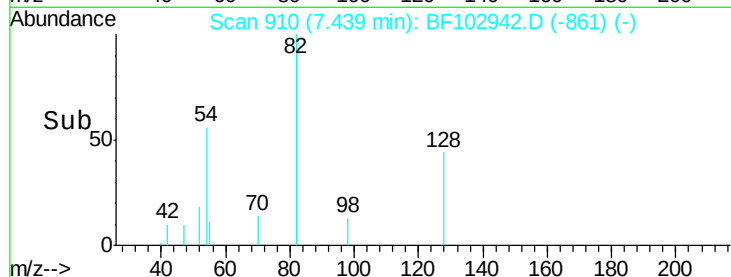
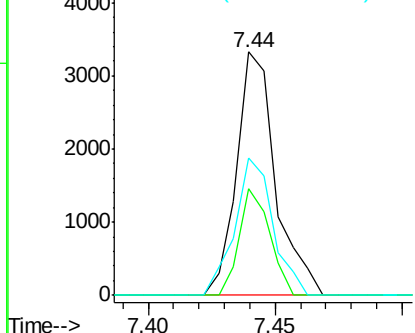
Tot Ion	Ratio	Lower	Upper
82	100		
128	43.9	36.1	54.1
54	56.2	41.4	62.2

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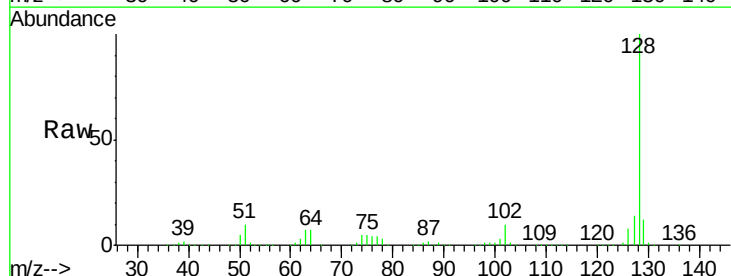


Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF1

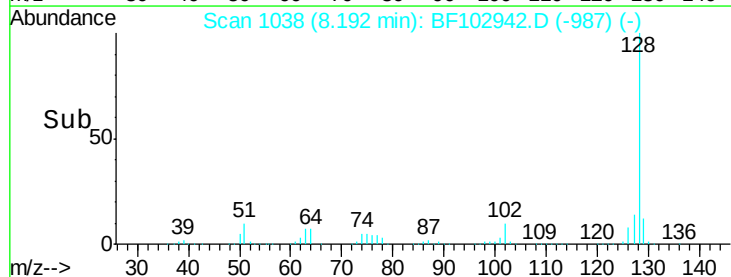
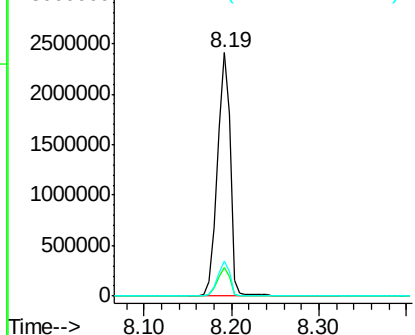


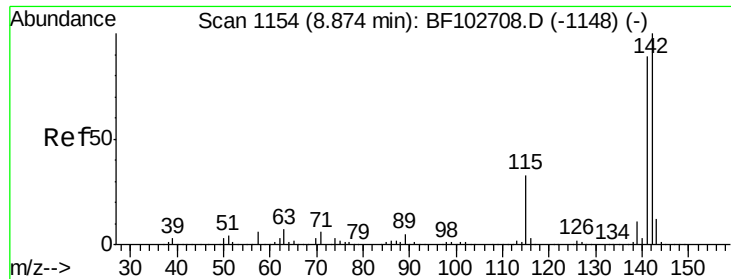
#31
Naphthalene
Concen: 78.296 ng
RT: 8.19 min Scan# 1038
Delta R.T. 0.00 min
Lab File: BF102942.D
Acq: 13 Feb 2018 1:53

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.9	8.8	13.2
127	14.2	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





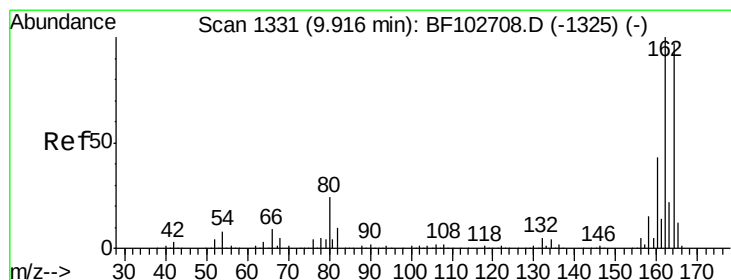
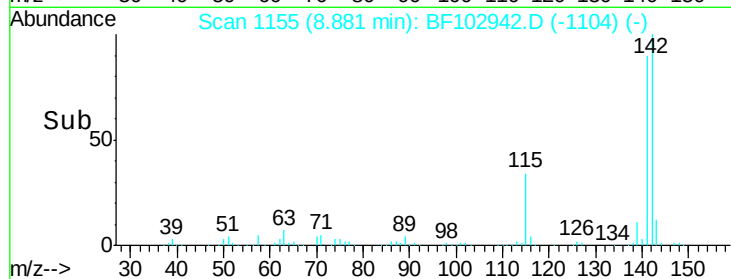
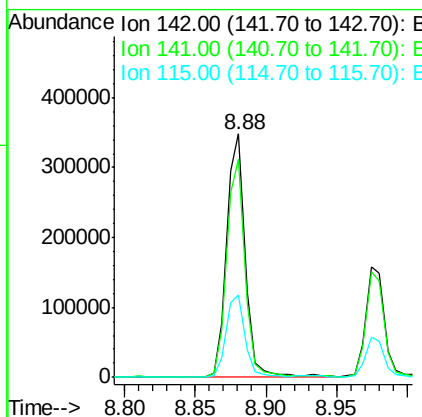
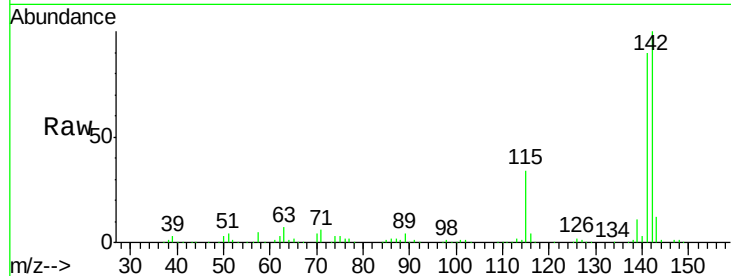
#37
2-Methylnaphthalene
Concen: 15.455 ng
RT: 8.88 min Scan# 1155
Delta R.T. 0.00 min
Lab File: BF102942.D
Acq: 13 Feb 2018 1:53

Instrument :
BNA_F
ClientSampled :
SP-09

Tot Ion	Ratio	Lower	Upper
142	100		
141	89.5	70.8	106.2
115	33.8	26.1	39.1

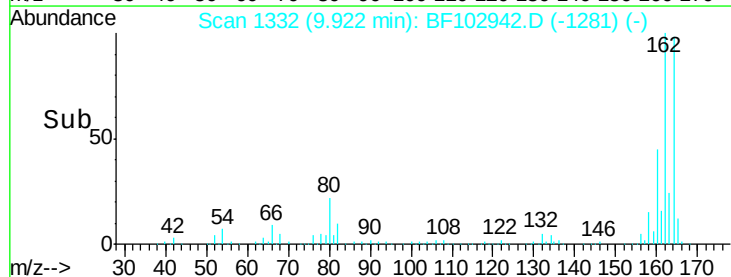
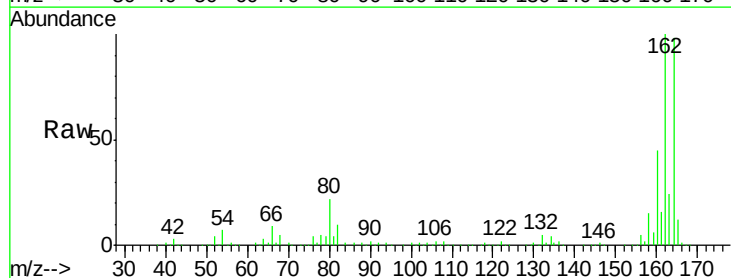
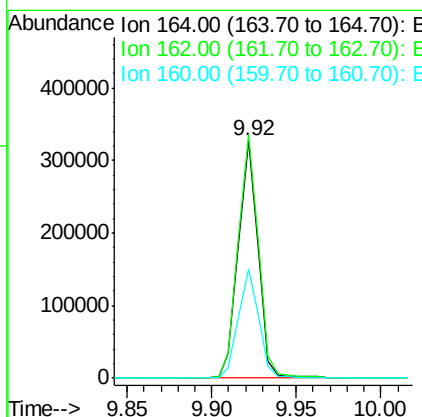
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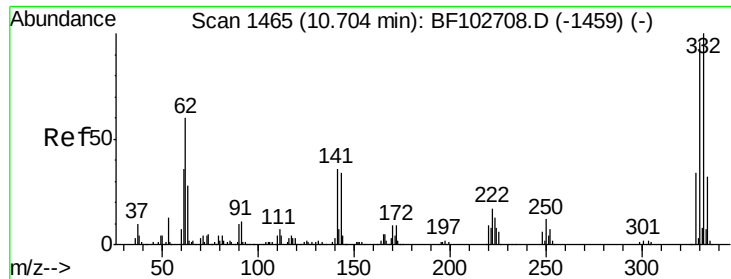
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#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.92 min Scan# 1332
Delta R.T. 0.00 min
Lab File: BF102942.D
Acq: 13 Feb 2018 1:53

Tgt Ion	Ratio	Lower	Upper
164	100		
162	102.5	86.1	129.1
160	46.0	38.3	57.5





#41

2,4,6-Tribromophenol

Concen: 0.234 ng

RT: 10.71 min Scan# 1466

Delta R.T. 0.00 min

Lab File: BF102942.D

Acq: 13 Feb 2018 1:53

Instrument :

BNA_F

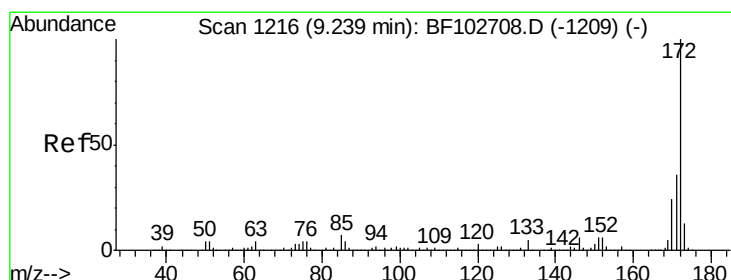
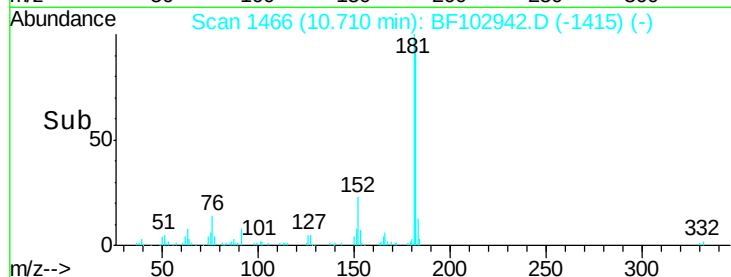
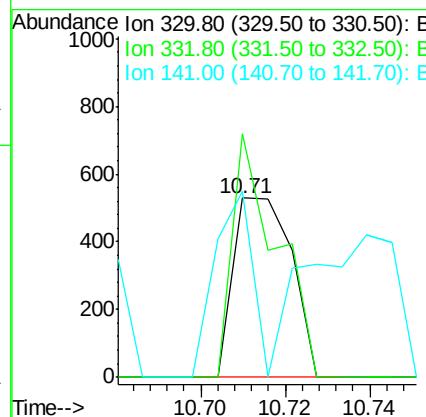
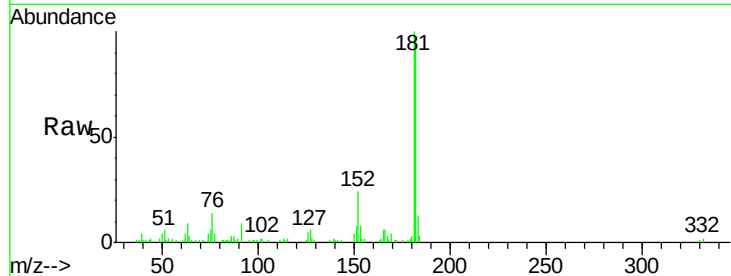
ClientSampled :

SP-09

Tot Ion:	330	Resp:	505
Ion Ratio	Lower	Upper	
330	100		
332	104.2	77.0	115.6
141	67.1	29.9	44.9#

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#44

2-Fluorobiphenyl

Concen: 0.428 ng

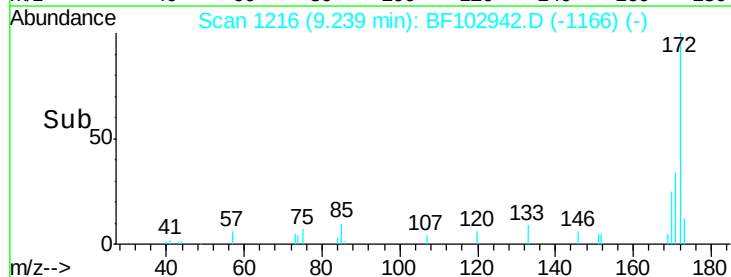
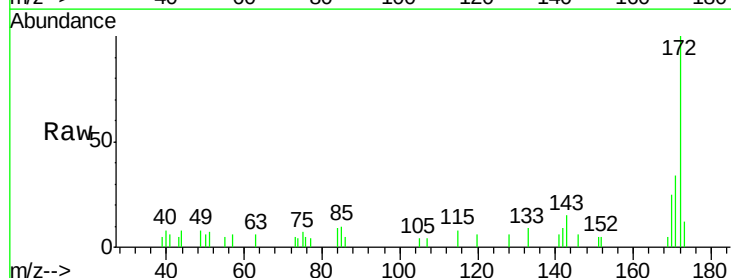
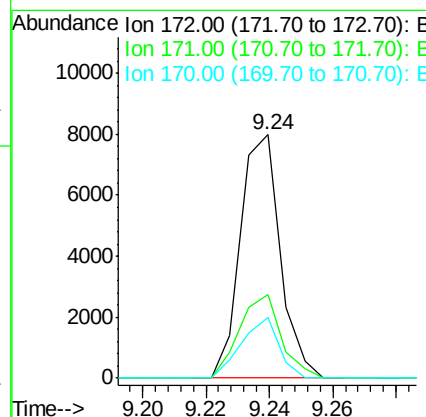
RT: 9.24 min Scan# 1216

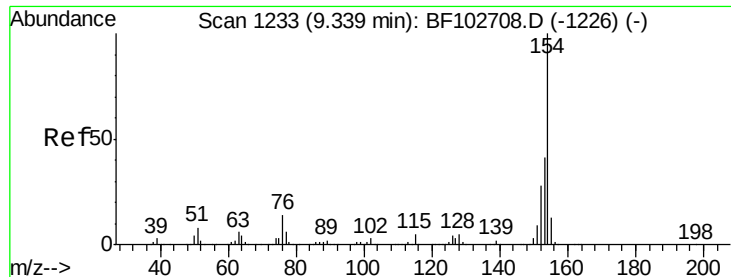
Delta R.T. -0.01 min

Lab File: BF102942.D

Acq: 13 Feb 2018 1:53

Tgt Ion:	172	Resp:	6910
Ion Ratio	Lower	Upper	
172	100		
171	34.3	29.7	44.5
170	24.7	19.6	29.4





#45

1,1'-Biphenyl

Concen: 4.687 ng

RT: 9.34 min Scan# 1233

Delta R.T. -0.01 min

Lab File: BF102942.D

Acq: 13 Feb 2018 1:53

Instrument :

BNA_F

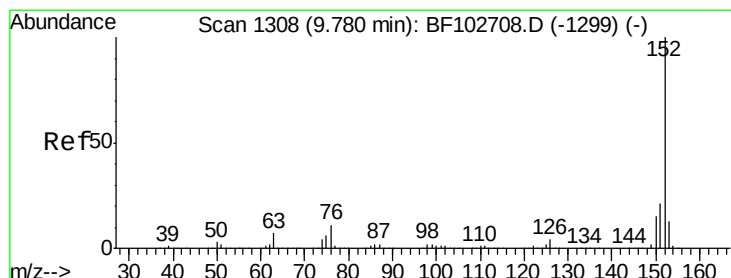
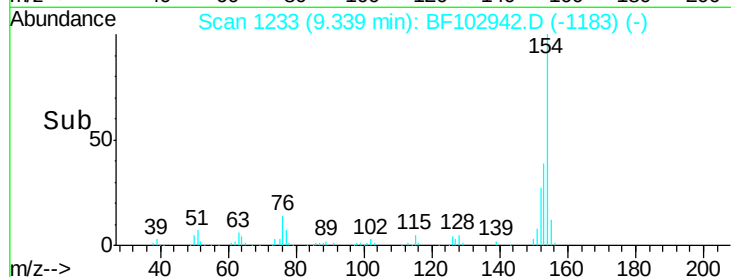
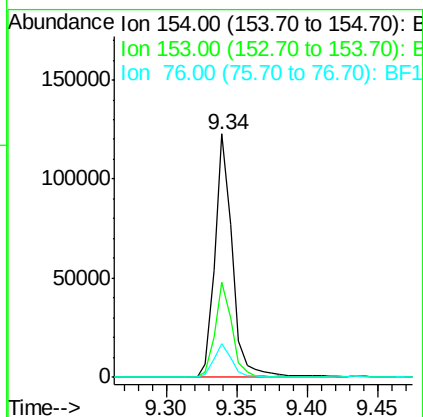
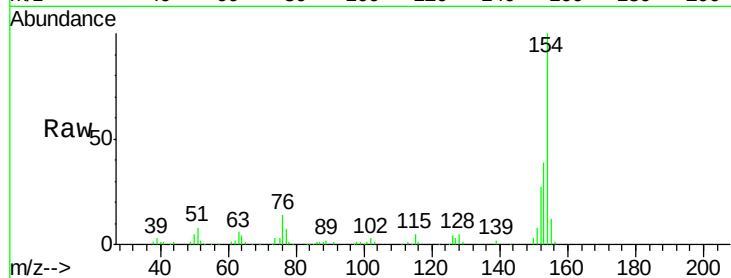
ClientSampleId :

SP-09

Tot Ion:	154	Resp:	105663
Ion Ratio	Lower	Upper	
154	100		
153	39.1	21.3	61.3
76	13.8	0.0	34.0

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#48

Acenaphthylene

Concen: 21.601 ng

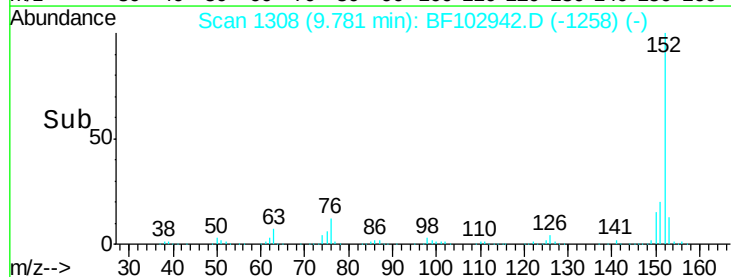
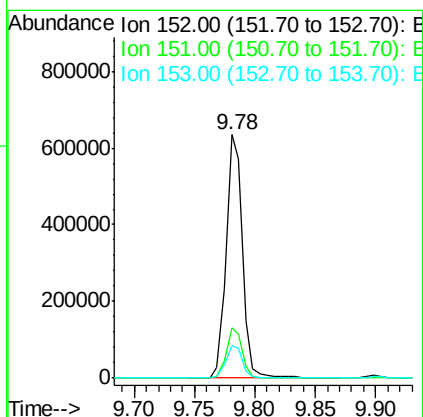
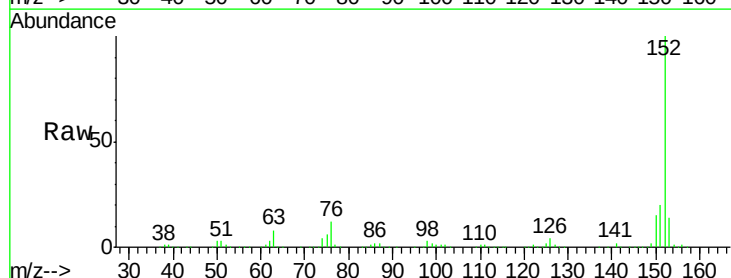
RT: 9.78 min Scan# 1308

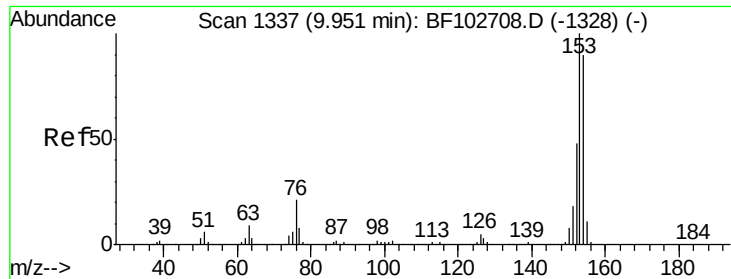
Delta R.T. -0.01 min

Lab File: BF102942.D

Acq: 13 Feb 2018 1:53

Tgt Ion:	152	Resp:	595417
Ion Ratio	Lower	Upper	
152	100		
151	20.4	16.3	24.5
153	13.5	10.7	16.1





#51

Acenaphthene

Concen: 2.195 ng

RT: 9.95 min Scan# 1337

Delta R.T. -0.01 min

Lab File: BF102942.D

Acq: 13 Feb 2018 1:53

Instrument :

BNA_F

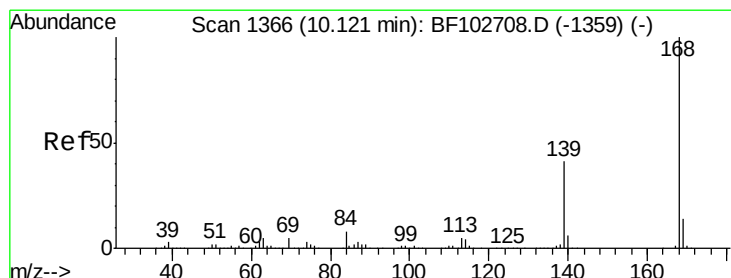
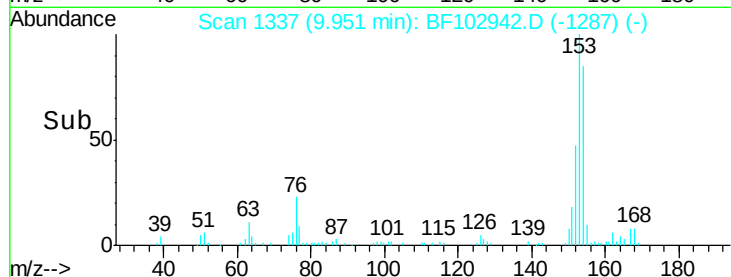
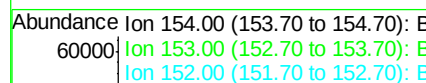
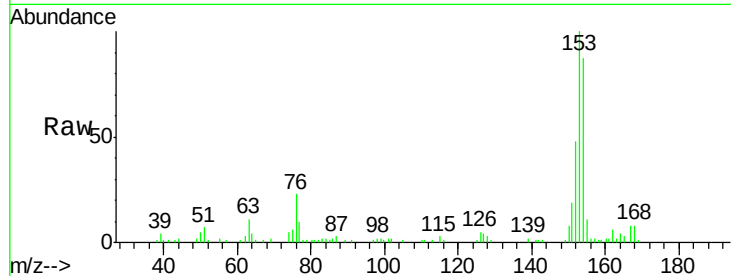
ClientSampled :

SP-09

Tot Ion:	154	Resp:	36178
Ion Ratio	Lower	Upper	
154	100		
153	114.7	91.2	136.8
152	55.1	43.8	65.8

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#54

Dibenzofuran

Concen: 16.849 ng

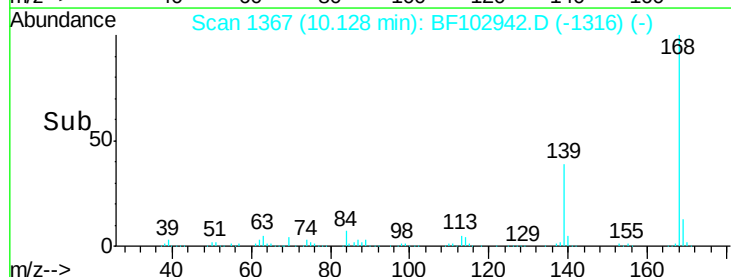
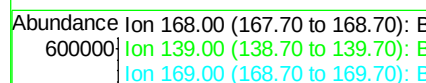
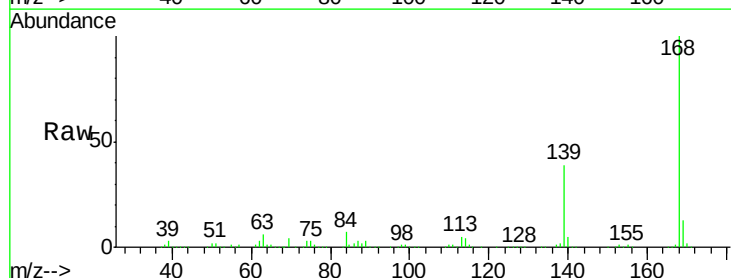
RT: 10.13 min Scan# 1367

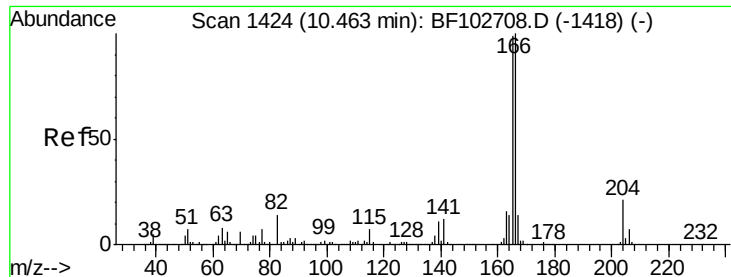
Delta R.T. 0.00 min

Lab File: BF102942.D

Acq: 13 Feb 2018 1:53

Tgt Ion:	168	Resp:	391430
Ion Ratio	Lower	Upper	
168	100		
139	38.7	30.1	45.1
169	13.4	10.9	16.3





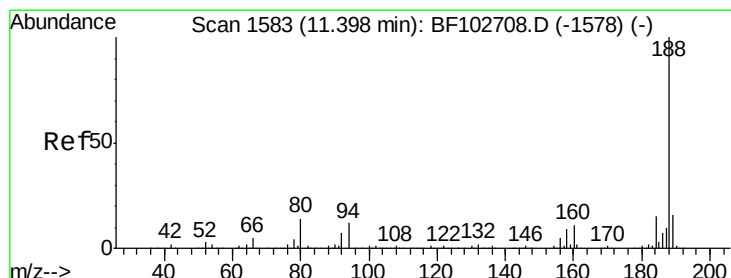
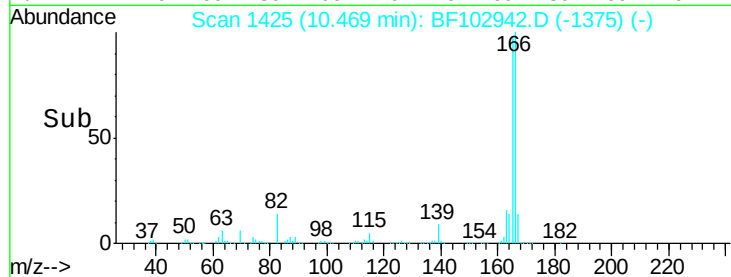
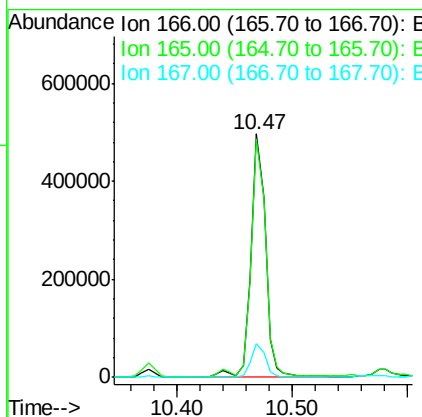
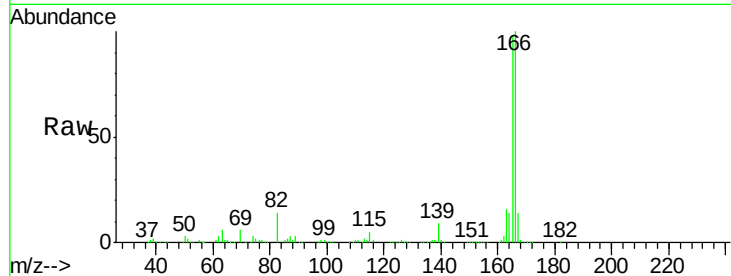
#57
Fluorene
 Concen: 25.972 ng
 RT: 10.47 min Scan# 1425
 Delta R.T. -0.01 min
 Lab File: BF102942.D
 Acq: 13 Feb 2018 1:53

Instrument :
 BNA_F
 ClientSampleId :
 SP-09

Tot Ion	Ratio	Lower	Upper
166	100		
165	97.8	79.8	119.8
167	13.8	10.6	16.0

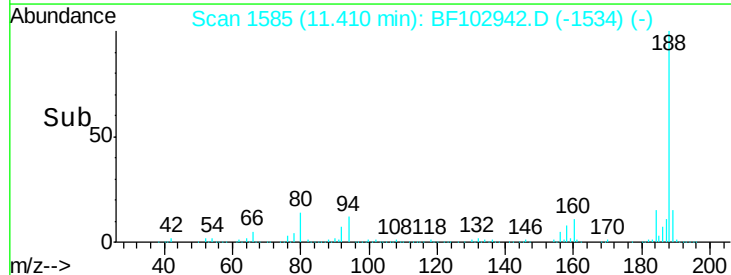
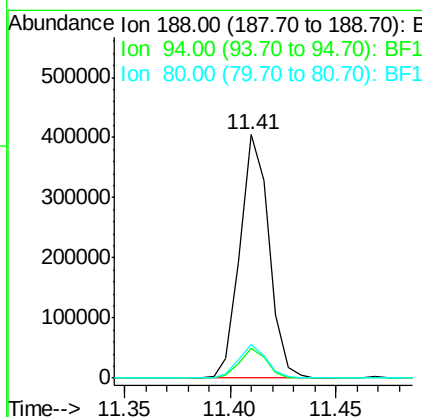
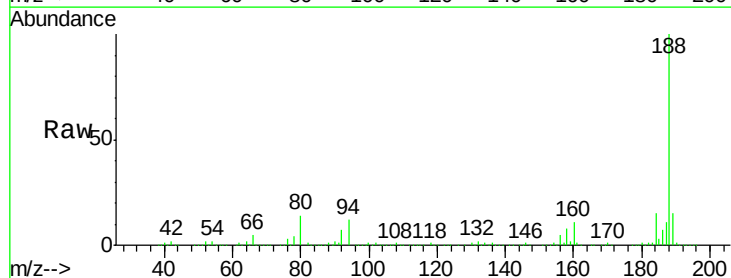
Manual Integrations
 APPROVED

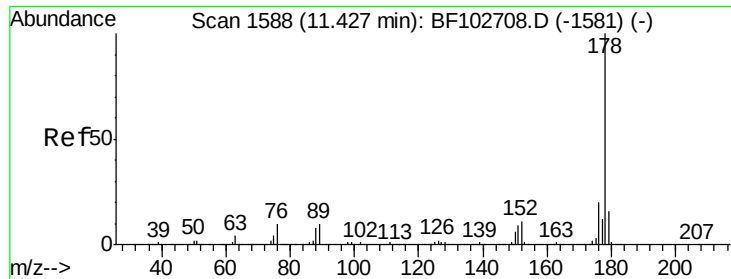
Sohil
 2/13/2018 11:26:33 AM



#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.41 min Scan# 1585
 Delta R.T. 0.00 min
 Lab File: BF102942.D
 Acq: 13 Feb 2018 1:53

Tgt Ion	Ratio	Lower	Upper
188	100		
94	12.3	8.5	12.7
80	13.6	9.2	13.8





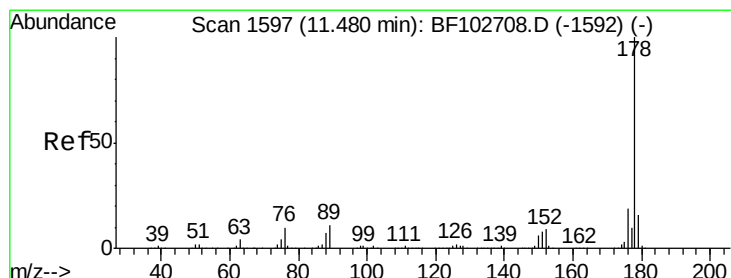
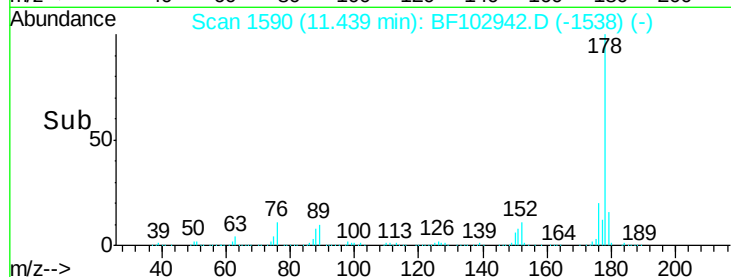
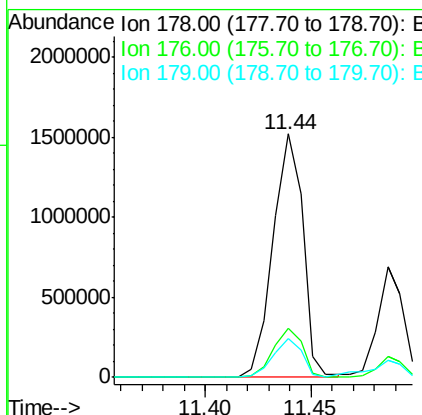
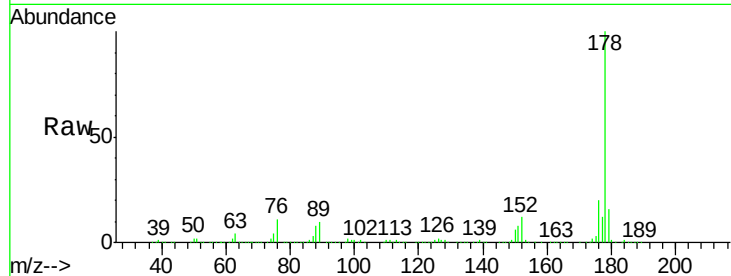
#70
Phenanthrene
Concen: 69.986 ng
RT: 11.44 min Scan# 1590
Delta R.T. 0.01 min
Lab File: BF102942.D
Acq: 13 Feb 2018 1:53

Instrument :
BNA_F
ClientSampled :
SP-09

Tot Ion	Ratio	Lower	Upper
178	100		
176	20.2	15.8	23.8
179	16.0	13.0	19.6

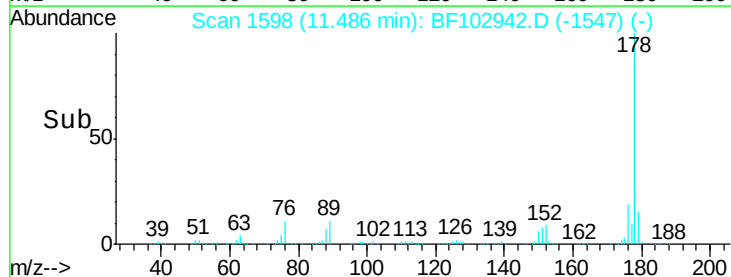
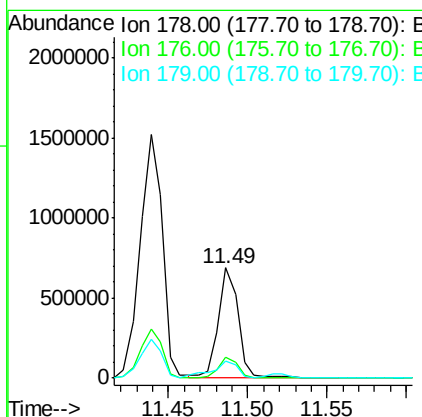
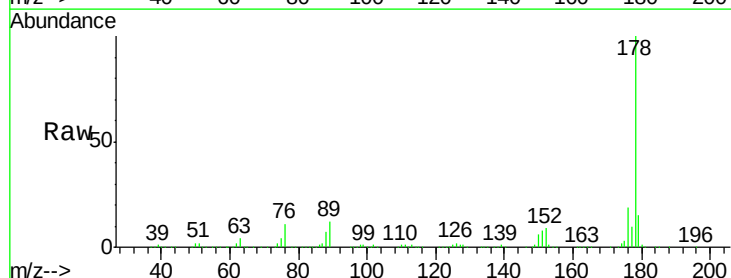
Manual Integrations
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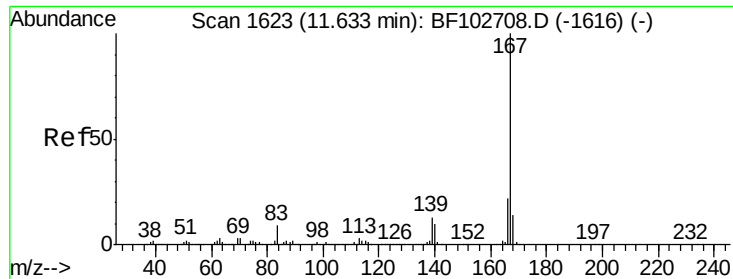
Sohil
2/13/2018 11:26:33 AM



#71
Anthracene
Concen: 27.547 ng
RT: 11.49 min Scan# 1598
Delta R.T. 0.00 min
Lab File: BF102942.D
Acq: 13 Feb 2018 1:53

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.4	23.2
179	15.0	12.6	19.0





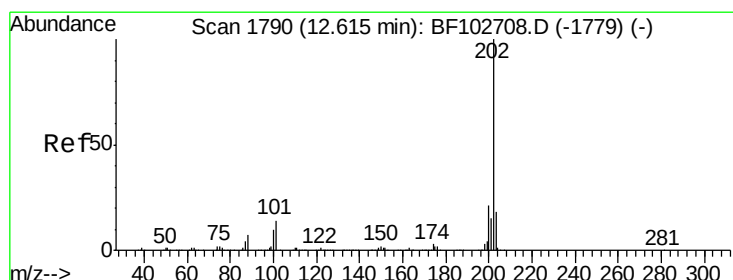
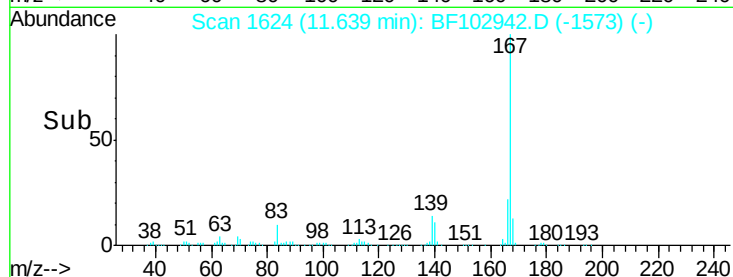
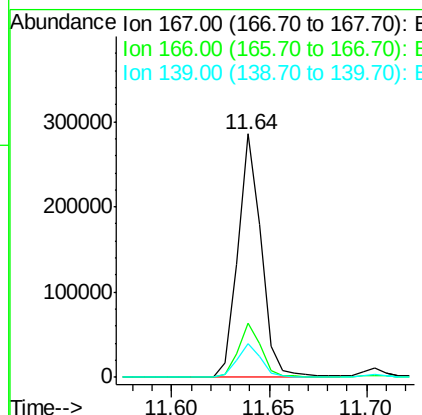
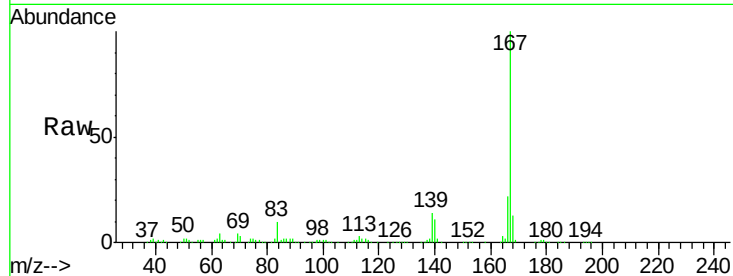
#72
 Carbazole
 Concen: 11.129 ng
 RT: 11.64 min Scan# 1624
 Delta R.T. 0.00 min
 Lab File: BF102942.D
 Acq: 13 Feb 2018 1:53

Instrument :
 BNA_F
 ClientSampled :
 SP-09

Tot Ion	Ratio	Resp	Lower	Upper
167	100	237966		
166	22.2		17.6	26.4
139	13.8		10.9	16.3

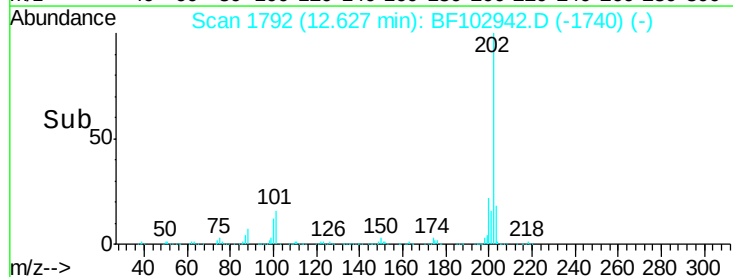
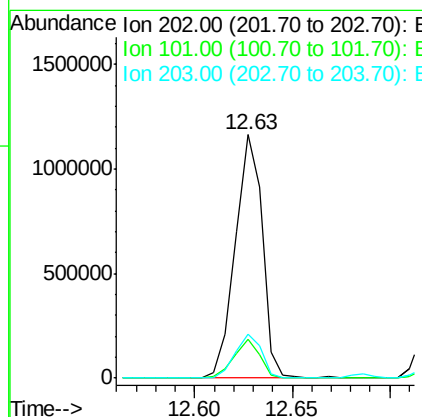
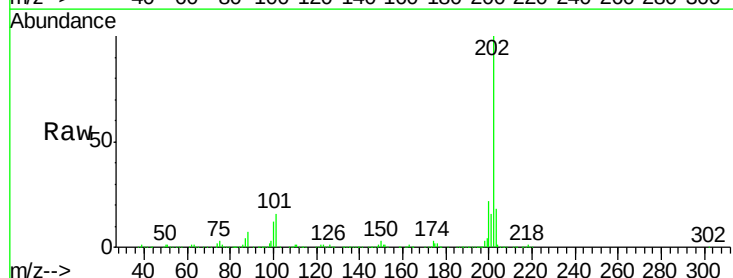
Manual Integrations
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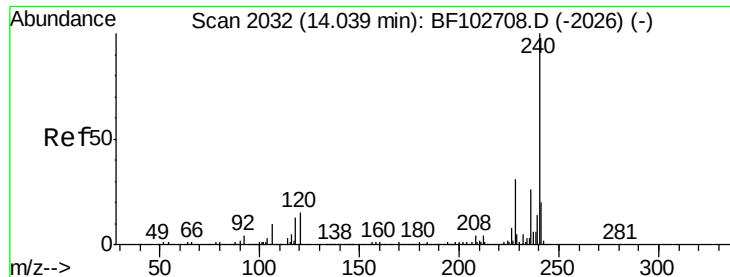
Sohil
 2/13/2018 11:26:33 AM



#74
 Fluoranthene
 Concen: 51.959 ng
 RT: 12.63 min Scan# 1792
 Delta R.T. 0.01 min
 Lab File: BF102942.D
 Acq: 13 Feb 2018 1:53

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	1121820		
101	15.8		0.0	34.1
203	17.9		0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.05 min Scan# 2034

Delta R.T. 0.00 min

Lab File: BF102942.D

Acq: 13 Feb 2018 1:53

Instrument :

BNA_F

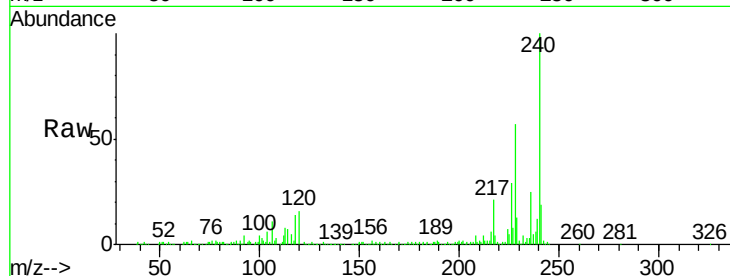
ClientSampled :

SP-09

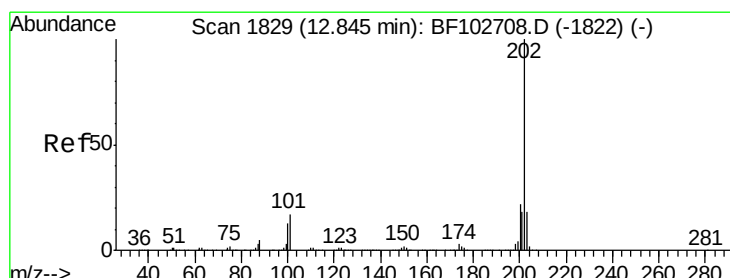
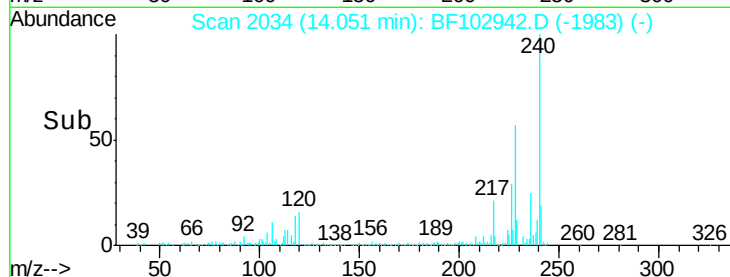
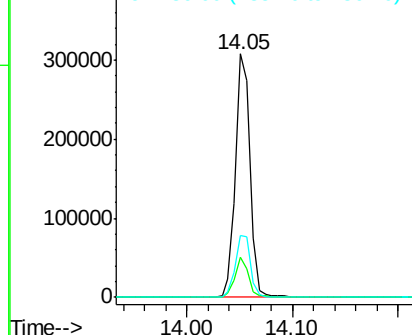
Tot Ion:	240	Resp:	292588
Ion Ratio	Lower	Upper	
240	100		
120	16.3	9.5	14.3#
236	25.2	20.7	31.1

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: 38.826 ng

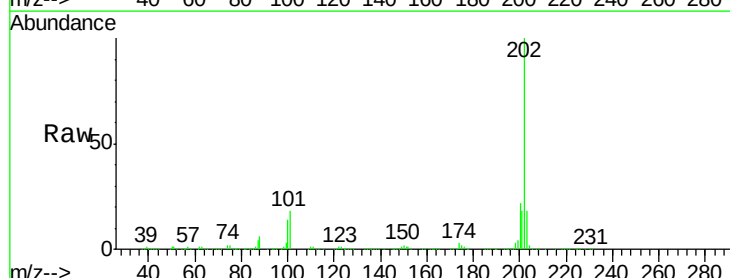
RT: 12.86 min Scan# 1831

Delta R.T. 0.01 min

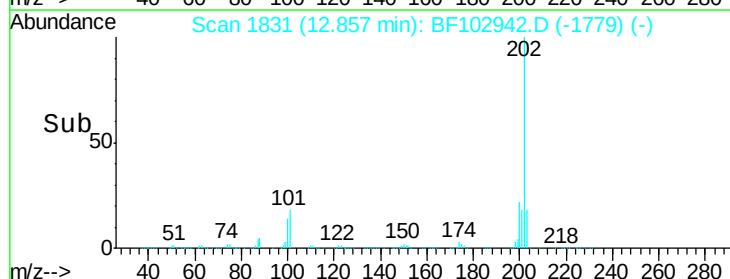
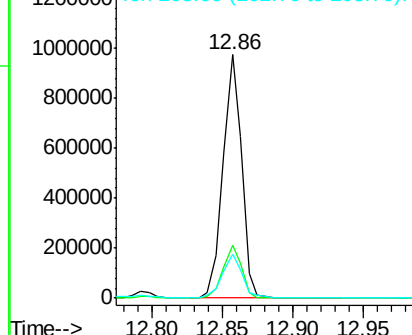
Lab File: BF102942.D

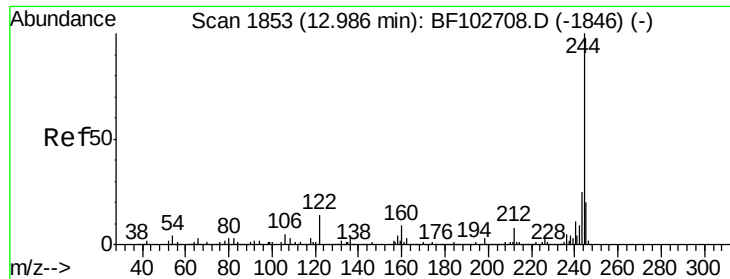
Acq: 13 Feb 2018 1:53

Tgt Ion:	202	Resp:	890804
Ion Ratio	Lower	Upper	
202	100		
200	21.6	17.4	26.2
203	17.9	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: 0.439 ng

RT: 12.99 min Scan# 1854

Delta R.T. -0.01 min

Lab File: BF102942.D

Acq: 13 Feb 2018 1:53

Instrument :

BNA_F

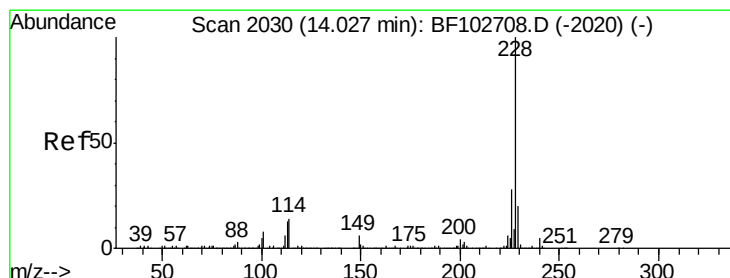
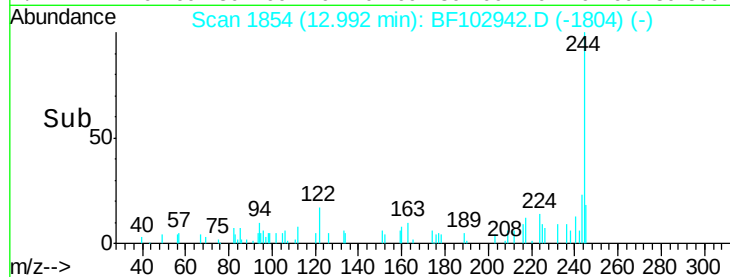
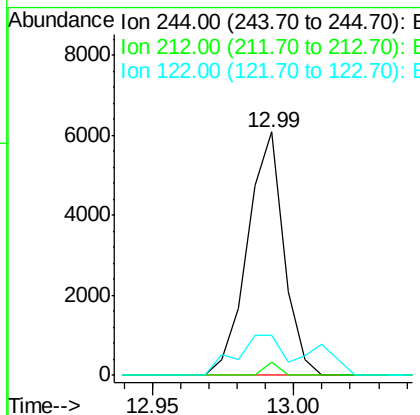
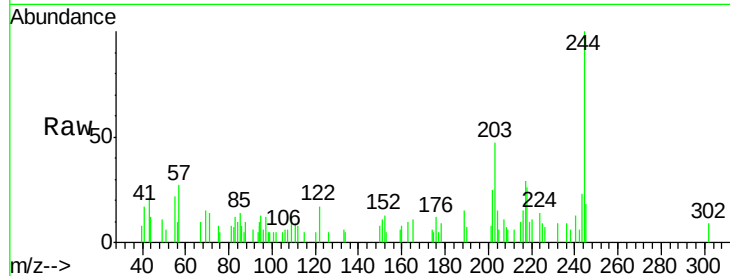
ClientSampled :

SP-09

Tot Ion:	244	Resp:	5420
Ion Ratio	Lower	Upper	
244	100		
212	5.6	5.4	8.0
122	16.7	11.0	16.4

Manual Integrations
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#80

Benzo(a)anthracene

Concen: 24.994 ng m

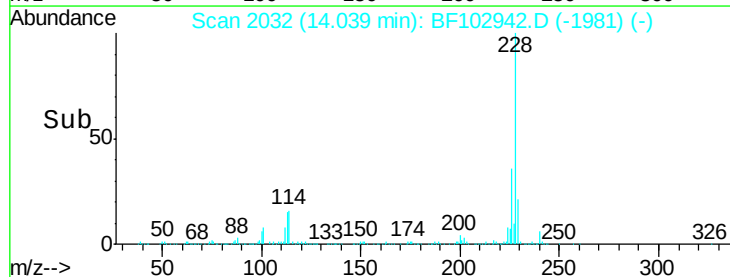
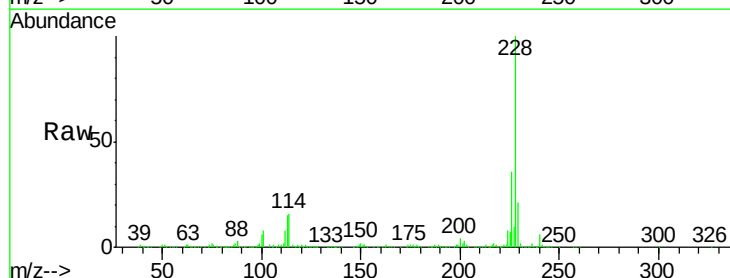
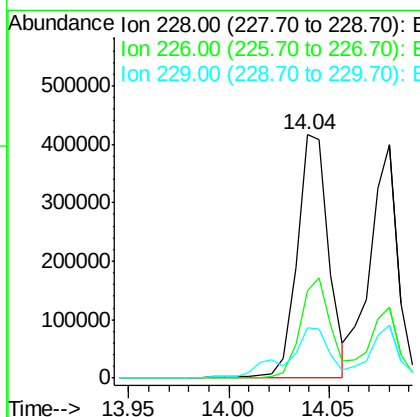
RT: 14.04 min Scan# 2032

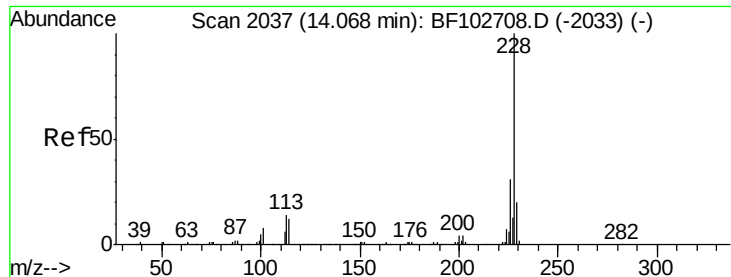
Delta R.T. 0.00 min

Lab File: BF102942.D

Acq: 13 Feb 2018 1:53

Tgt Ion:	228	Resp:	459923
Ion Ratio	Lower	Upper	
228	100		
226	36.1	22.6	33.8
229	20.8	15.8	23.6





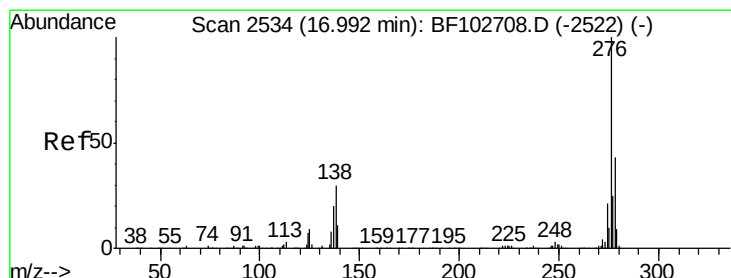
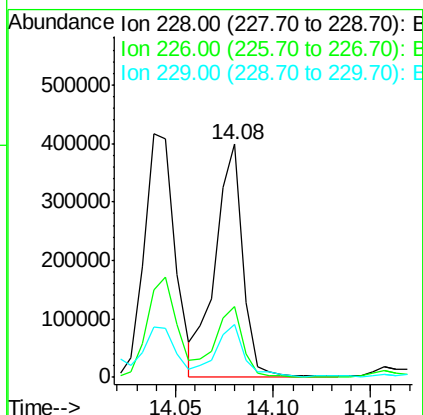
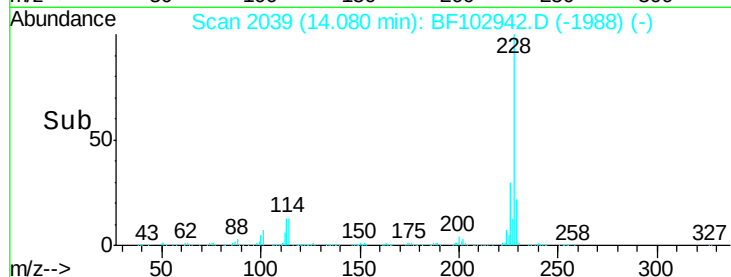
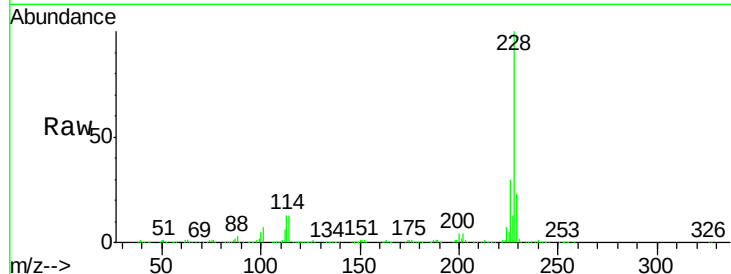
#82
Chrysene
Concen: 20.986 ng
RT: 14.08 min Scan# 2039
Delta R.T. 0.00 min
Lab File: BF102942.D
Acq: 13 Feb 2018 1:53

Instrument :
BNA_F
ClientSampleId :
SP-09

Tot Ion:	228	Resp:	389268
Ion Ratio	Lower	Upper	
228	100		
226	30.2	25.0	37.6
229	22.8	16.2	24.4

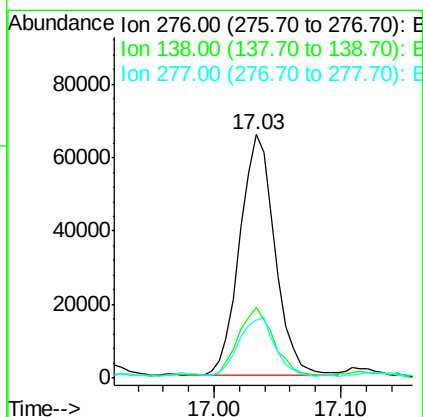
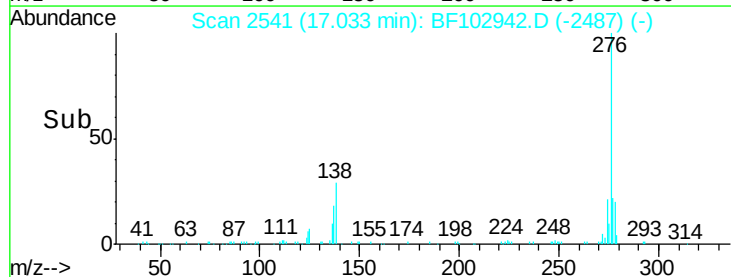
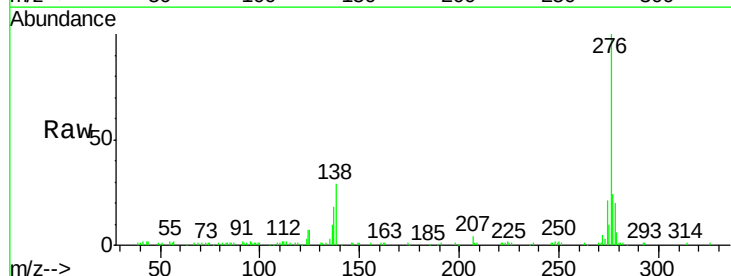
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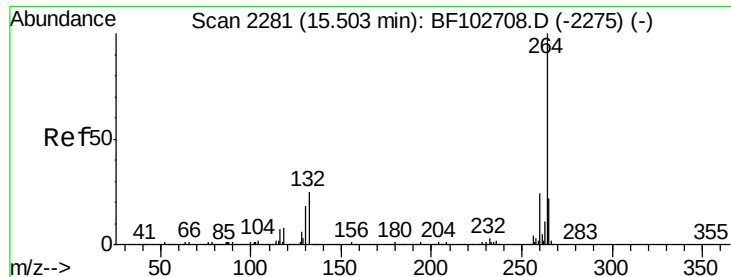
Sohil
2/13/2018 11:26:33 AM



#85
Indeno(1,2,3-cd)pyrene
Concen: 8.202 ng
RT: 17.03 min Scan# 2541
Delta R.T. 0.02 min
Lab File: BF102942.D
Acq: 13 Feb 2018 1:53

Tgt Ion:	276	Resp:	126180
Ion Ratio	Lower	Upper	
276	100		
138	28.2	25.0	37.6
277	24.7	20.1	30.1





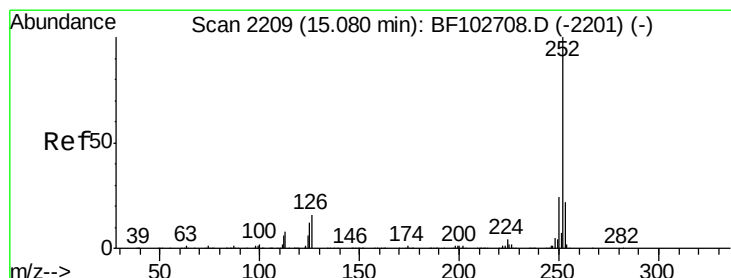
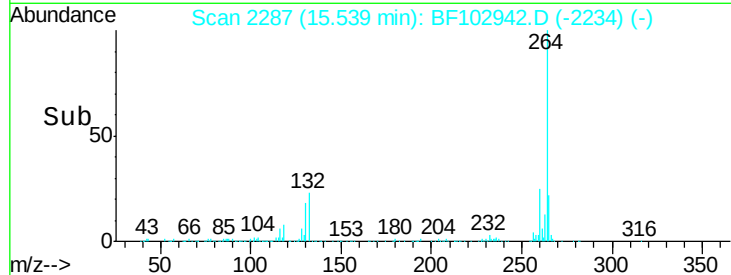
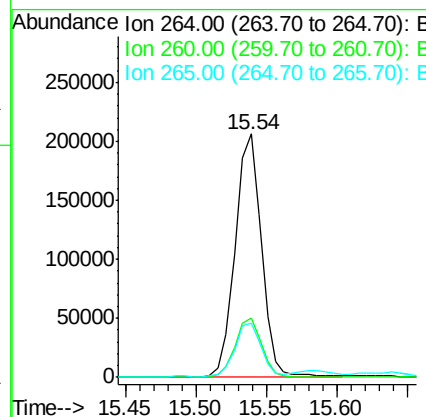
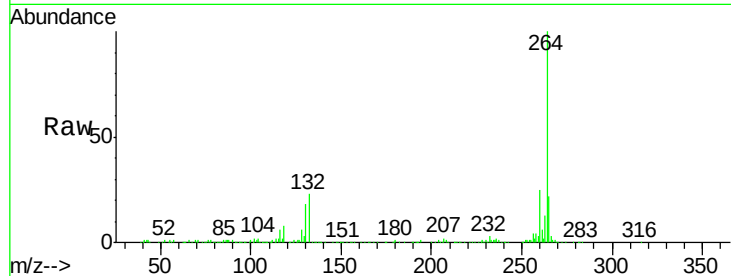
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.54 min Scan# 2287
Delta R.T. 0.01 min
Lab File: BF102942.D
Acq: 13 Feb 2018 1:53

Instrument :
BNA_F
ClientSampled :
SP-09

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.5	19.2	28.8
265	22.0	17.5	26.3

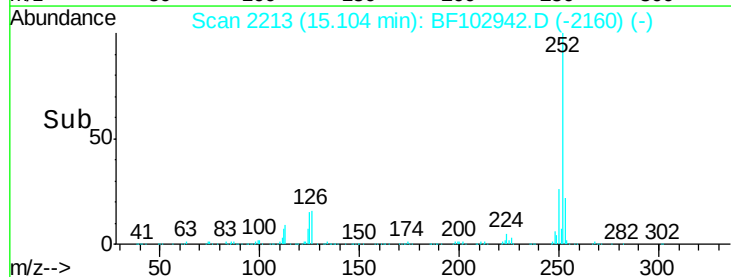
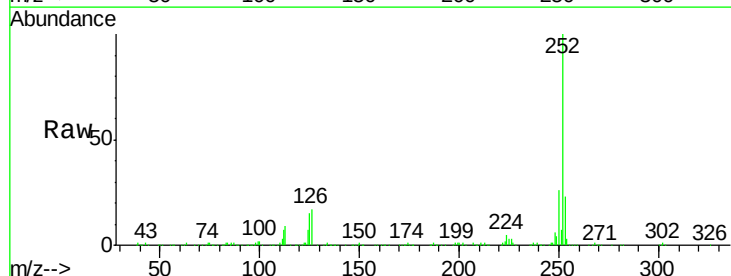
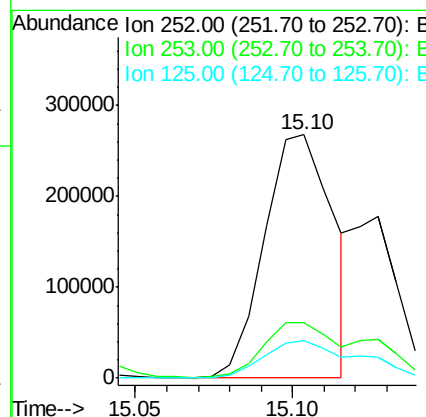
Manual Integrations
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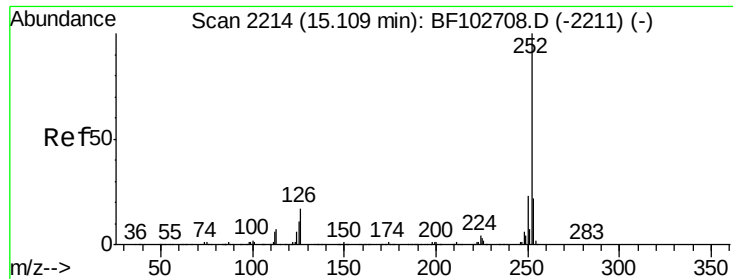
Sohil
2/13/2018 11:26:33 AM



#87
Benzo(b)fluoranthene
Concen: 23.450 ng m
RT: 15.10 min Scan# 2213
Delta R.T. 0.01 min
Lab File: BF102942.D
Acq: 13 Feb 2018 1:53

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.0	25.6
125	15.4	9.0	13.6#





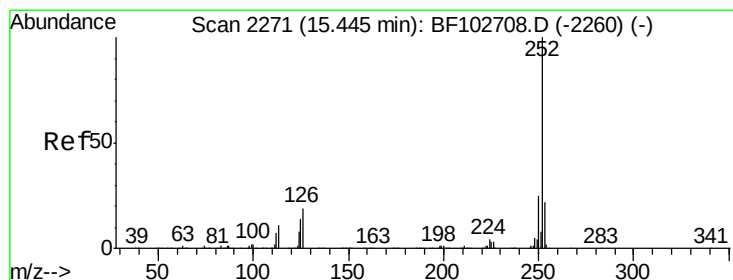
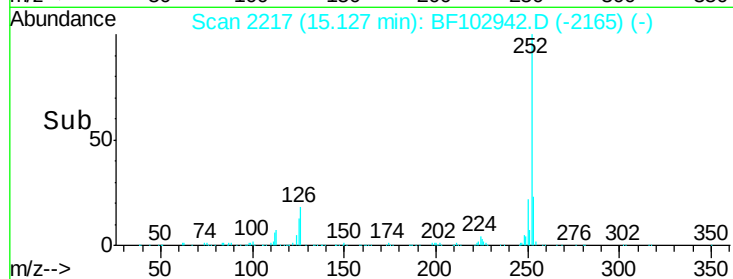
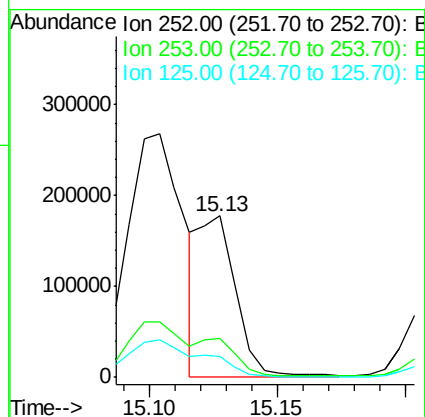
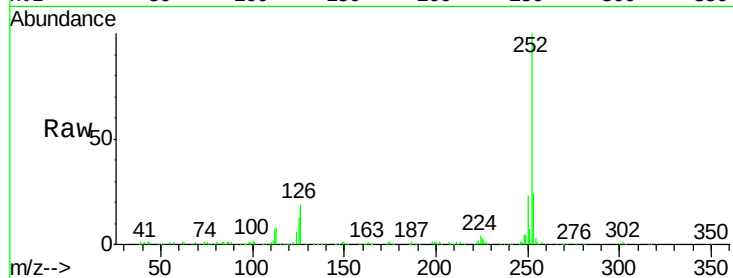
#88
Benzo(k)fluoranthene
Concen: 10.646 ng m
RT: 15.13 min Scan# 2217
Delta R.T. 0.01 min
Lab File: BF102942.D
Acq: 13 Feb 2018 1:53

Instrument :
BNA_F
ClientSampleId :
SP-09

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.7	17.9	26.9
125	13.1	10.2	15.2

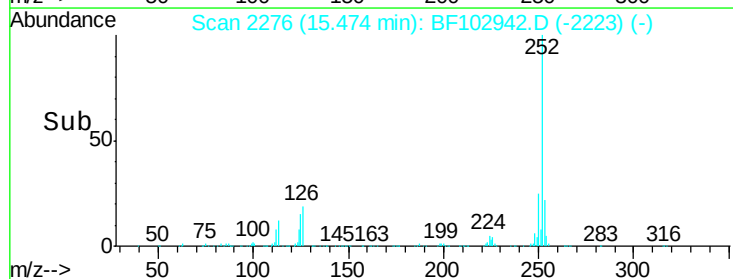
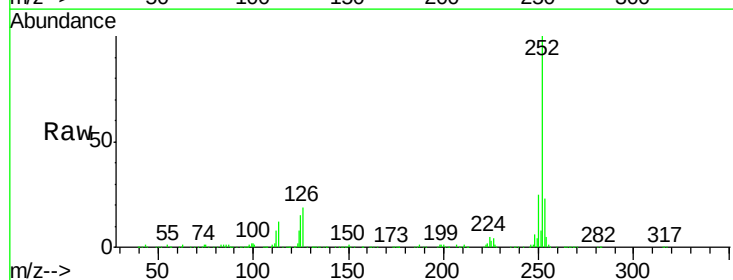
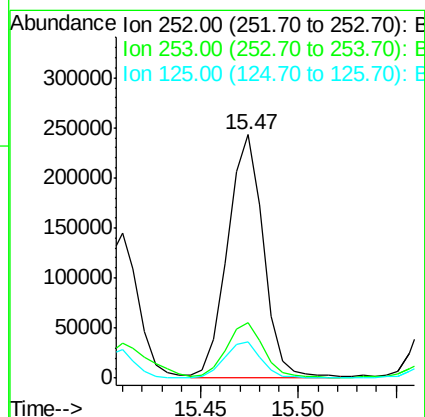
Manual Integrations
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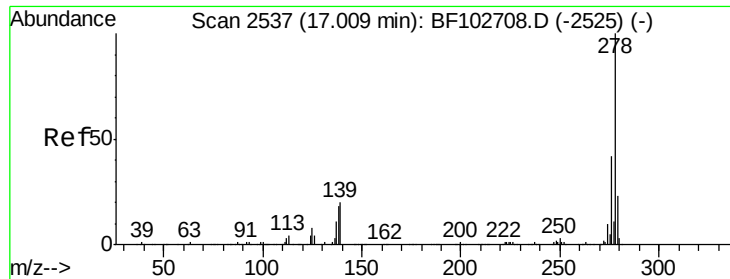
Sohil
2/13/2018 11:26:33 AM



#89
Benzo(a)pyrene
Concen: 19.738 ng
RT: 15.47 min Scan# 2276
Delta R.T. 0.01 min
Lab File: BF102942.D
Acq: 13 Feb 2018 1:53

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.7	17.1	25.7
125	14.9	9.8	14.6





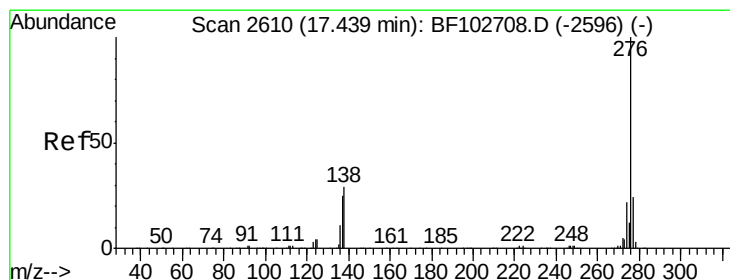
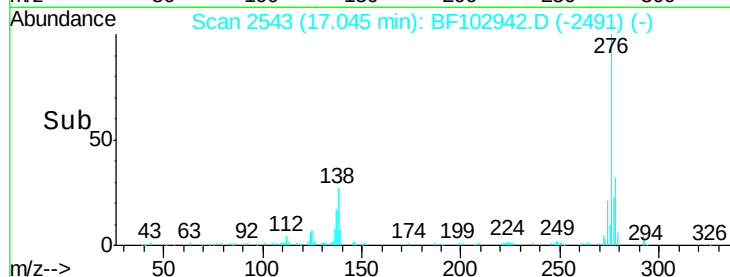
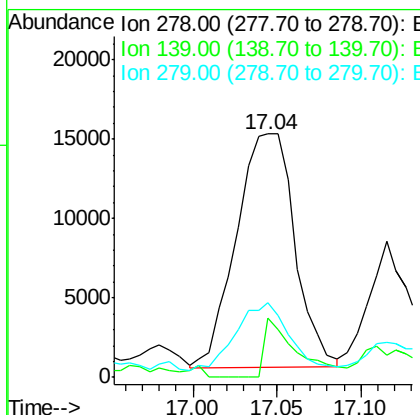
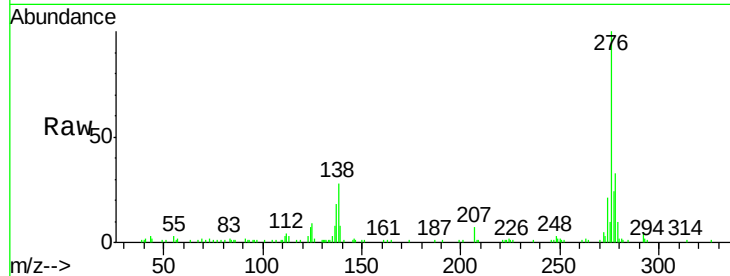
#90
Dibenzo(a,h)anthracene
Concen: 2.818 ng/mL
RT: 17.04 min Scan# 2543
Delta R.T. 0.01 min
Lab File: BF102942.D
Acq: 13 Feb 2018 1:53

Instrument :
BNA_F
ClientSampleId :
SP-09

Tot Ion	Ratio	Lower	Upper
278	100		
139	24.4	15.9	23.9#
279	30.6	19.0	28.4#

Manual Integrations
APPROVED

Sohil
2/13/2018 11:26:33 AM



#91
Benzo(g,h,i)perylene
Concen: 8.839 ng/mL
RT: 17.49 min Scan# 2619
Delta R.T. 0.02 min
Lab File: BF102942.D
Acq: 13 Feb 2018 1:53

Tgt Ion	Ratio	Lower	Upper
276	100		
277	20.8	17.9	26.9
138	28.3	21.8	32.8

