

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF101118\
 Data File : BF109809.D
 Acq On : 12 Oct 2018 1:45
 Operator : JU/SJ
 Sample : J5314-06 10X
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 DOCUMENTATION-23

Manual Integrations
 APPROVED

Sohil
 10/12/2018 11:01:40 AM

Quant Time: Oct 12 06:01:10 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF100818.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Oct 08 16:02:11 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.70	152	49690	20.00	ng	0.00
21) Naphthalene-d8	7.97	136	218171	20.00	ng	0.00
38) Acenaphthene-d10	9.72	164	92159	20.00	ng	0.00
63) Phenanthrene-d10	11.20	188	180359	20.00	ng	0.00
75) Chrysene-d12	13.84	240	154788	20.00	ng	0.01
86) Perylene-d12	15.24	264	136217	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.33	112	10682	3.82	ng	0.01
7) Phenol-d6	6.37	99	17852	4.77	ng	0.01
23) Nitrobenzene-d5	7.29	82	16089	4.07	ng	0.02
41) 2,4,6-Tribromophenol	10.52	330	8401	8.37	ng	0.00
44) 2-Fluorobiphenyl	9.05	172	42470	6.35	ng	-0.01
78) Terphenyl-d14	12.78	244	48503	6.07	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.00	128	292801	29.019	ng	99
37) 2-Methylnaphthalene	8.69	142	50438	7.631	ng	96
45) 1,1'-Biphenyl	9.15	154	16997	2.064	ng	95
48) Acenaphthylene	9.58	152	18217	2.026	ng	97
51) Acenaphthene	9.75	154	183063	34.342	ng	100
54) Dibenzofuran	9.93	168	174488	21.837	ng	97
57) Fluorene	10.27	166	233889	39.196	ng	100
70) Phenanthrene	11.24	178	2039980	226.015	ng	97
71) Anthracene	11.29	178	898811	96.333	ng	100
72) Carbazole	11.44	167	304171	33.613	ng	99
74) Fluoranthene	12.43	202	3297458	349.707	ng	97
77) Pyrene	12.66	202	2817459	248.436	ng	97
80) Benzo(a)anthracene	13.84	228	1807443	211.599	ng	96
82) Chrysene	13.88	228	1413826	157.579	ng	95
83) Bis(2-ethylhexyl)phthalate	13.82	149	22099	3.684	ng	# 98
85) Indeno(1,2,3-cd)pyrene	16.61	276	554833	86.396	ng	# 93
87) Benzo(b)fluoranthene	14.86	252	1539264m	204.483	ng	
88) Benzo(k)fluoranthene	14.88	252	466096m	61.625	ng	
89) Benzo(a)pyrene	15.20	252	1021203	149.493	ng	98
90) Dibenzo(a,h)anthracene	16.61	278	156797	27.948	ng	94
91) Benzo(g,h,i)perylene	17.02	276	468018	83.540	ng	98

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

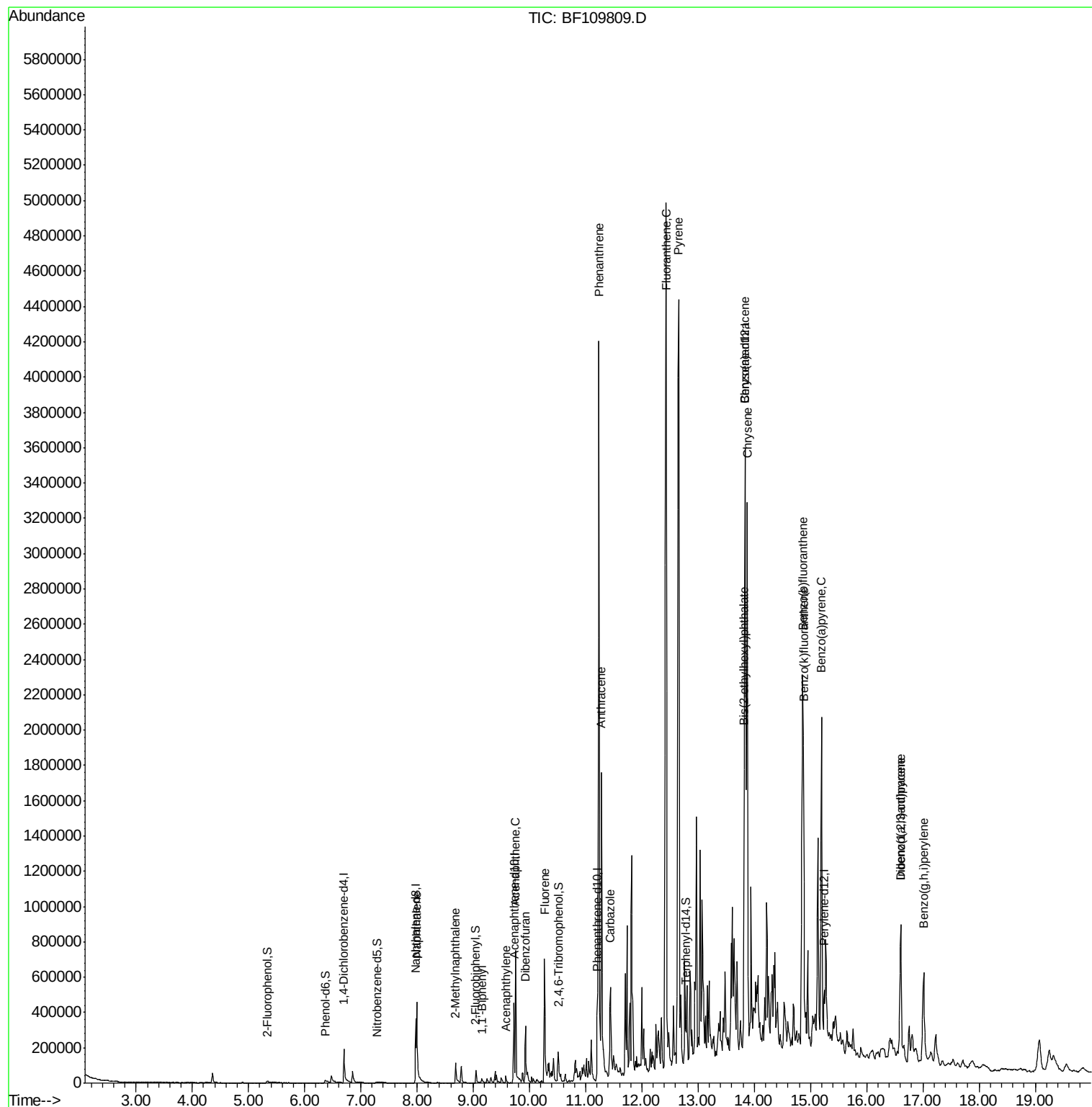
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF101118\
Data File : BF109809.D
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Misc :
ALS Vial : 26 Sample Multiplier: 1

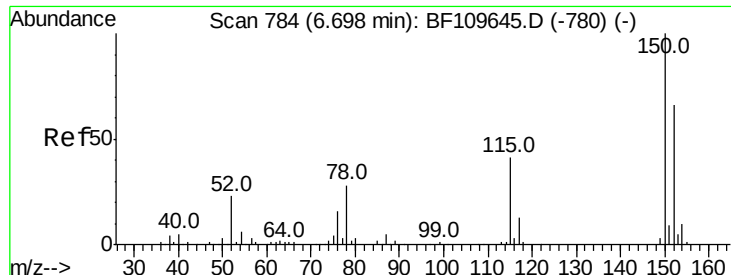
Instrument :
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 08 16:02:11 2018
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#1

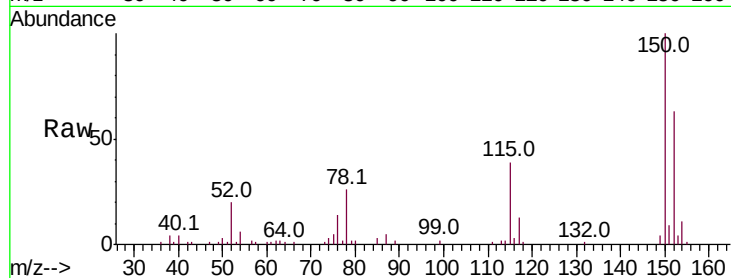
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.70 min Scan# 784
Delta R.T. -0.00 min
Lab File: BF109809.D
Acq: 12 Oct 2018 1:45

Instrument :
BNA_F
ClientSampleId :
DOCUMENTATION-23

Tot Ion	Ratio	Lower	Upper
152	100		
150	158.8	122.7	184.1
115	62.0	49.1	73.7

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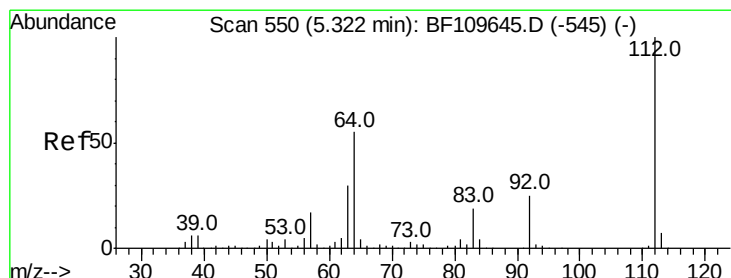
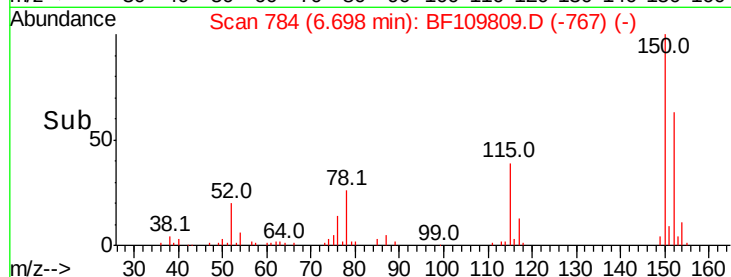
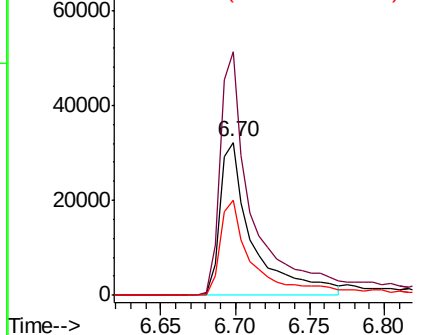


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

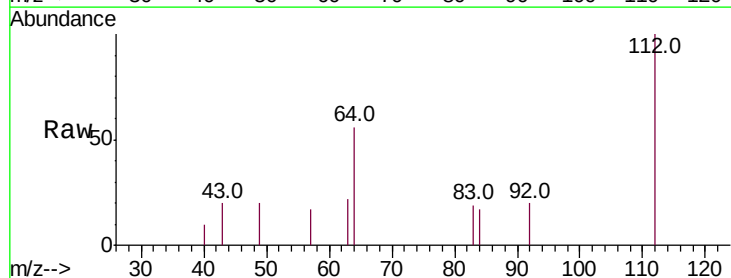
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 3.816 ng
RT: 5.33 min Scan# 552
Delta R.T. 0.01 min
Lab File: BF109809.D
Acq: 12 Oct 2018 1:45

Tgt Ion	Ratio	Lower	Upper
112	100		
64	55.8	44.1	66.1
63	22.0	23.7	35.5

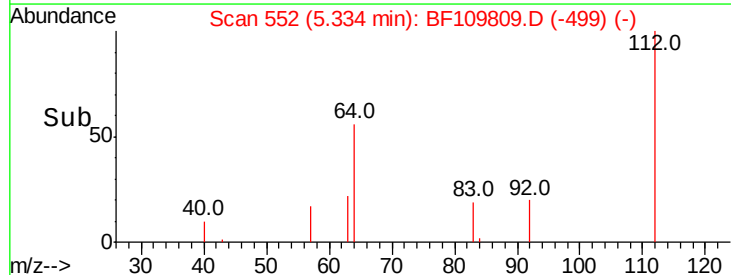
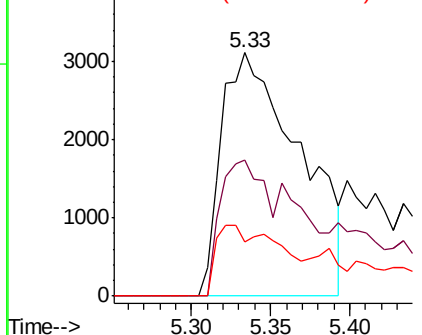


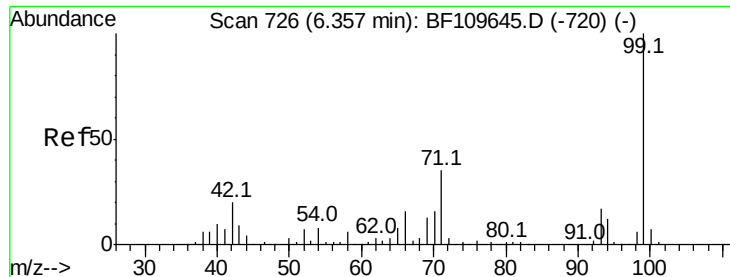
Abundance

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: 4.774 ng

RT: 6.37 min Scan# 728

Delta R.T. 0.01 min

Lab File: BF109809.D

Acq: 12 Oct 2018 1:45

Instrument :

BNA_F

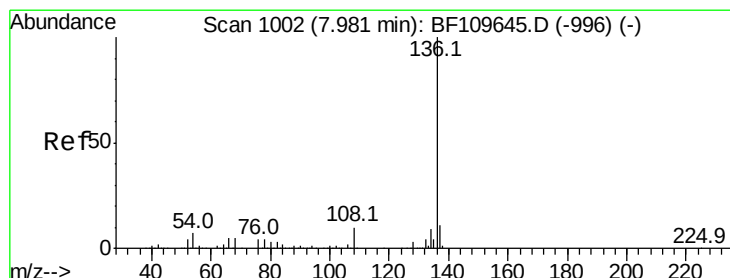
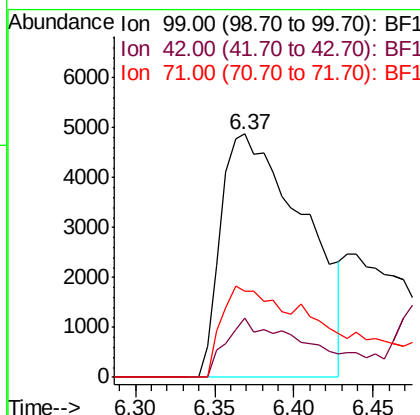
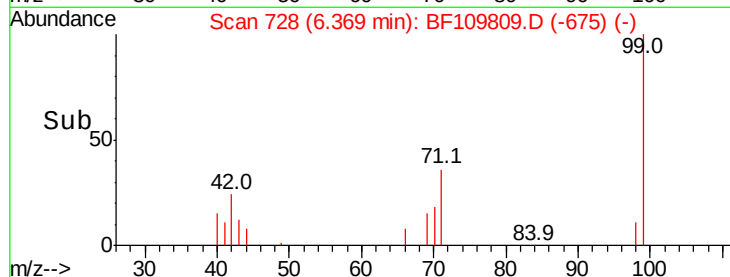
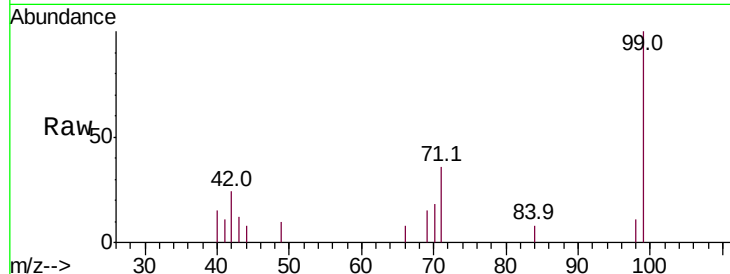
ClientSampleId :

DOCUMENTATION-23

Tot Ion:	99	Resp:	17852
Ion Ratio	Lower	Upper	
99	100		
42	24.4	15.8	23.6#
71	35.6	28.0	42.0

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#21

Naphthalene-d8

Concen: 20.000 ng

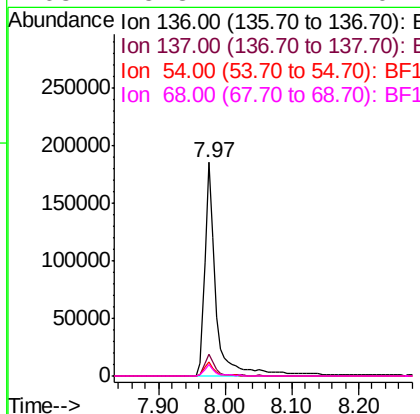
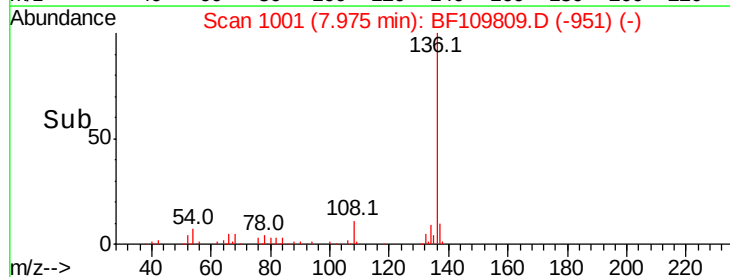
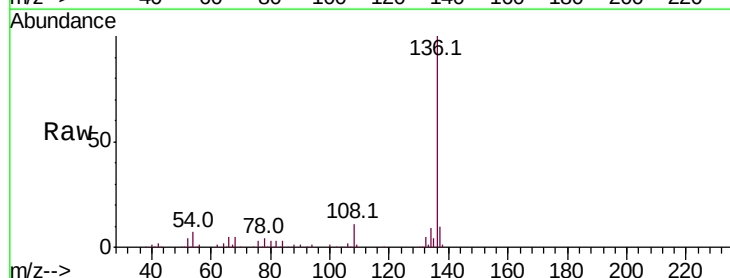
RT: 7.97 min Scan# 1001

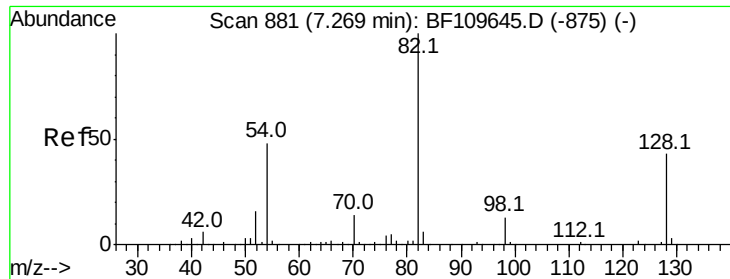
Delta R.T. -0.01 min

Lab File: BF109809.D

Acq: 12 Oct 2018 1:45

Tgt Ion:	136	Resp:	218171
Ion Ratio	Lower	Upper	
136	100		
137	10.2	8.8	13.2
54	6.7	5.4	8.2
68	5.3	4.2	6.2





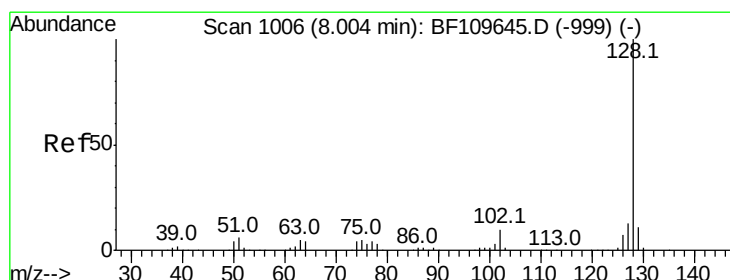
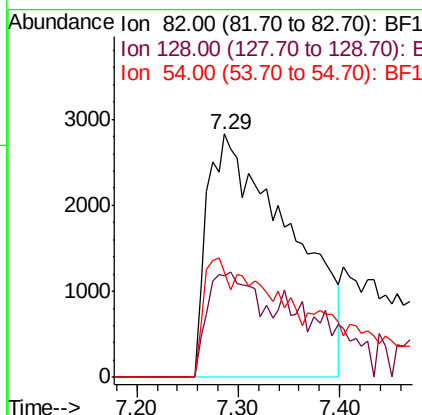
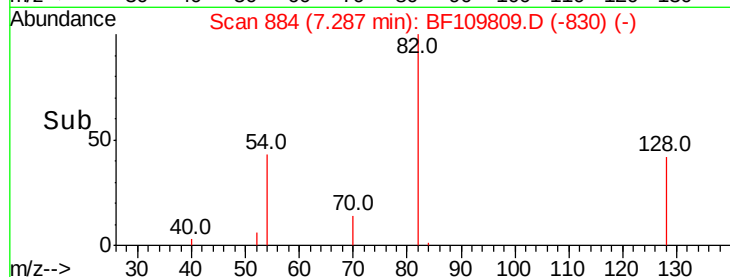
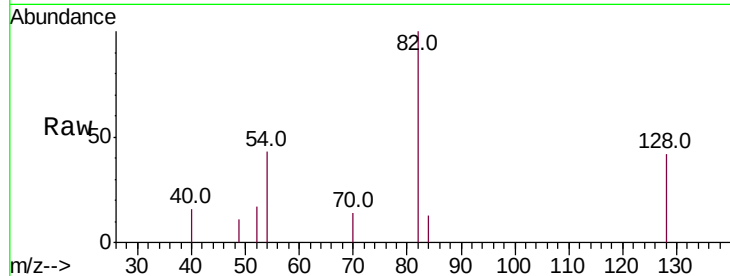
#23
Nitrobenzene-d5
Concen: 4.065 ng
RT: 7.29 min Scan# 884
Delta R.T. 0.02 min
Lab File: BF109809.D
Acq: 12 Oct 2018 1:45

Instrument :
BNA_F
ClientSampleId :
DOCUMENTATION-23

Tot Ion	Ratio	Lower	Upper
82	100		
128	41.6	34.2	51.2
54	43.3	38.6	58.0

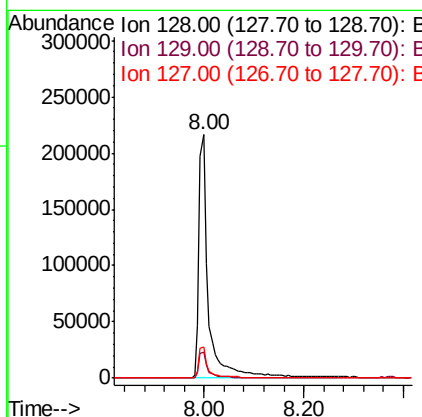
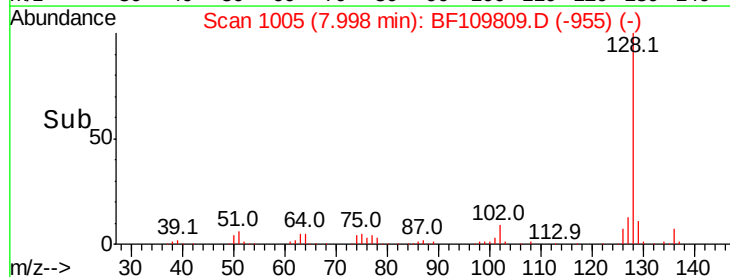
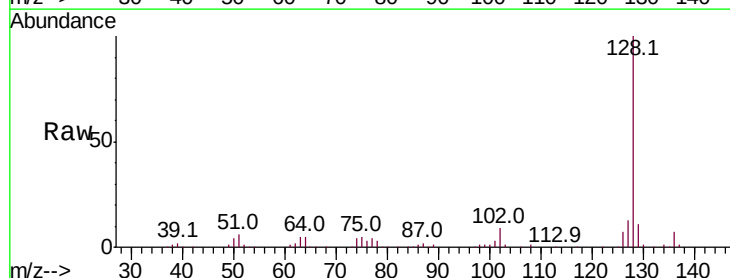
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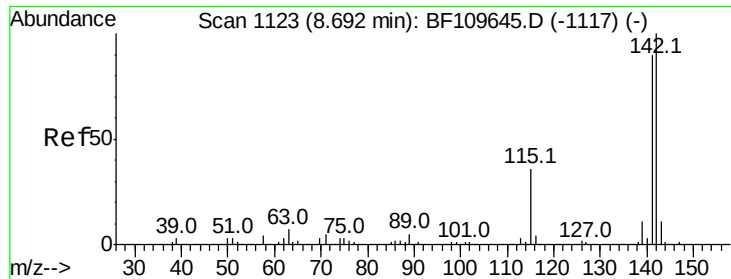
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#31
Naphthalene
Concen: 29.019 ng
RT: 8.00 min Scan# 1005
Delta R.T. -0.01 min
Lab File: BF109809.D
Acq: 12 Oct 2018 1:45

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.5	8.8	13.2
127	13.0	10.8	16.2





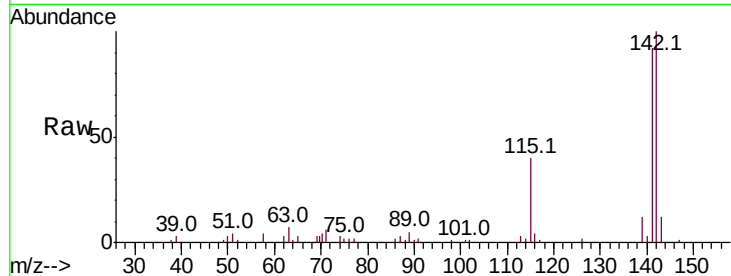
#37
2-Methylnaphthalene
Concen: 7.631 ng
RT: 8.69 min Scan# 1122
Delta R.T. -0.01 min
Lab File: BF109809.D
Acq: 12 Oct 2018 1:45

Instrument :
BNA_F
ClientSampleId :
DOCUMENTATION-23

Tot Ion	Ratio	Lower	Upper
142	100		
141	91.8	71.4	107.2
115	39.7	28.7	43.1

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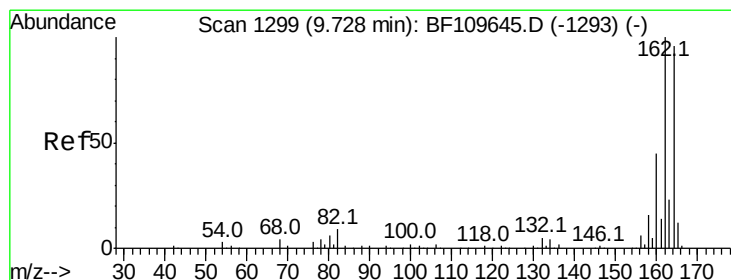
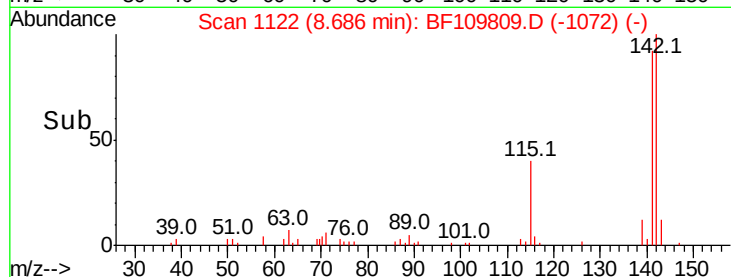
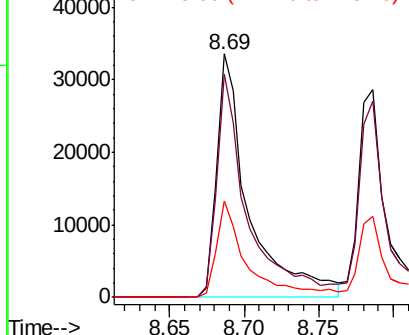


Abundance

Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.72 min Scan# 1298
Delta R.T. -0.01 min
Lab File: BF109809.D
Acq: 12 Oct 2018 1:45

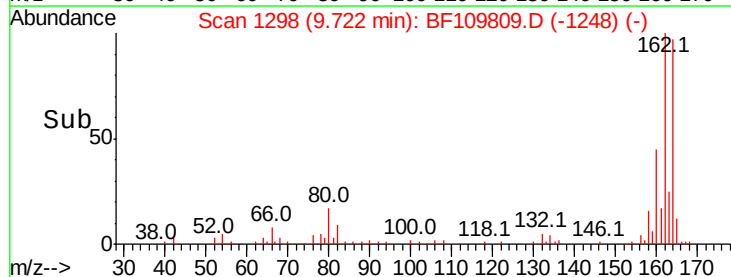
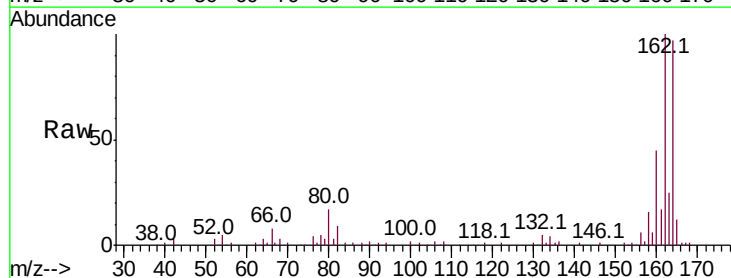
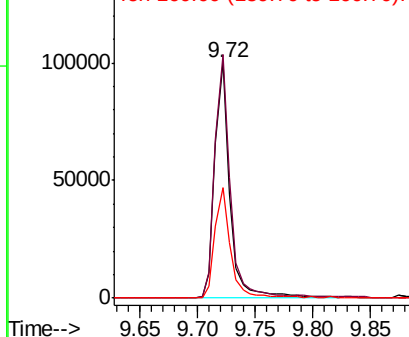
Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.4	83.0	124.6
160	47.0	37.0	55.6

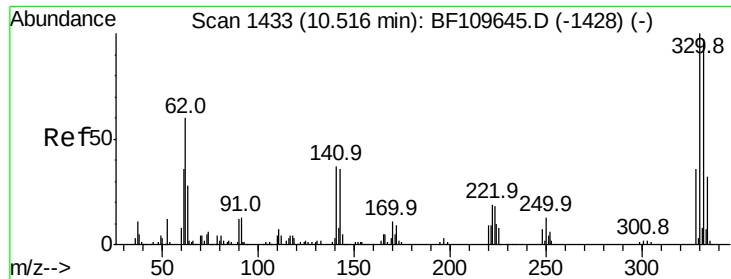
Abundance

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





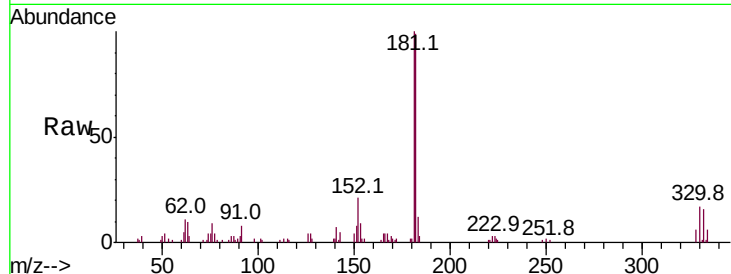
#41
 2,4,6-Tribromophenol
 Concen: 8.366 ng
 RT: 10.52 min Scan# 1433
 Delta R.T. -0.00 min
 Lab File: BF109809.D
 Acq: 12 Oct 2018 1:45

Instrument :
 BNA_F
 ClientSampleId :
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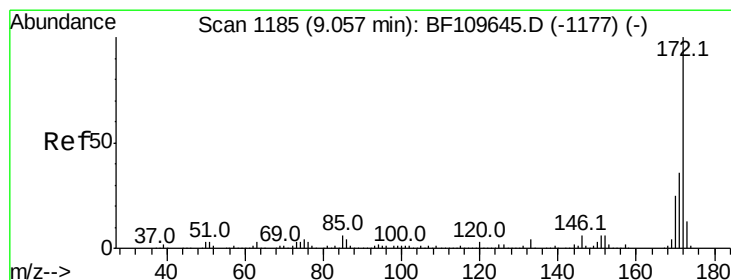
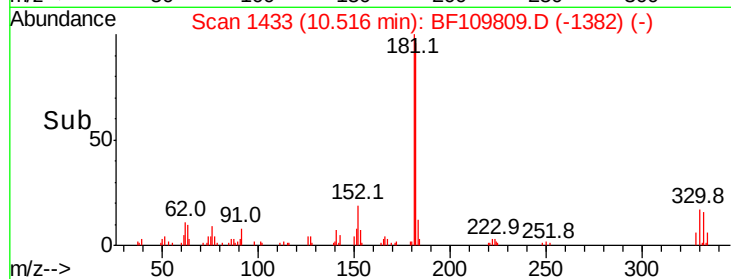
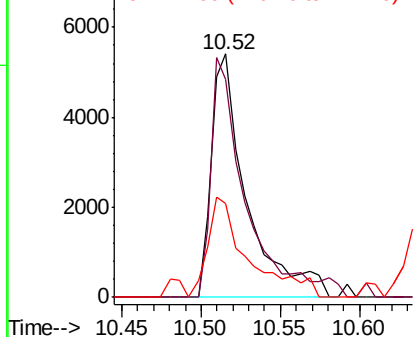
Tot Ion	Ratio	Lower	Upper
330	100		
332	97.5	77.1	115.7
141	47.3	27.0	40.4#

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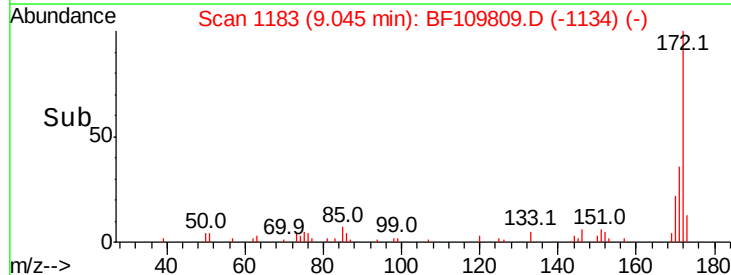
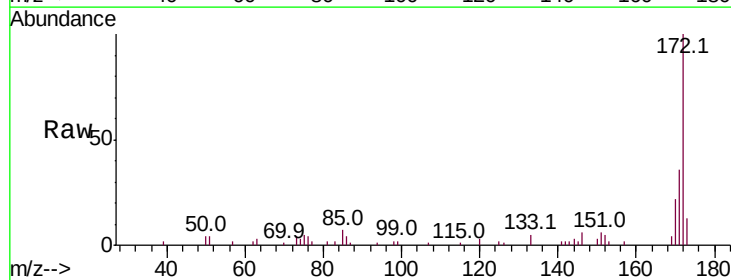
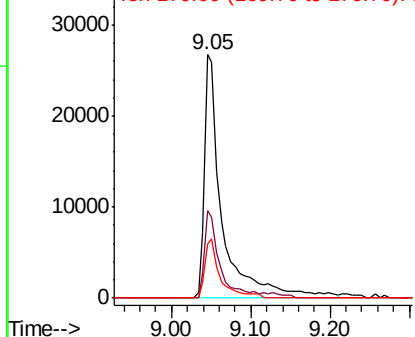
Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

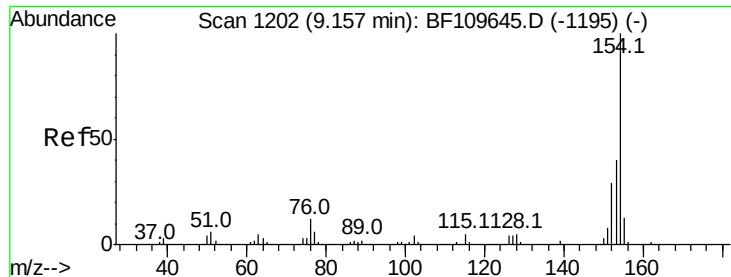


#44
 2-Fluorobiphenyl
 Concen: 6.347 ng
 RT: 9.05 min Scan# 1183
 Delta R.T. -0.01 min
 Lab File: BF109809.D
 Acq: 12 Oct 2018 1:45

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.7	28.6	43.0
170	22.0	19.7	29.5

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





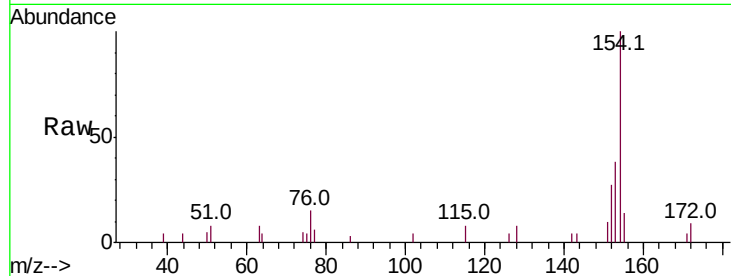
#45
1,1'-Biphenyl
Concen: 2.064 ng
RT: 9.15 min Scan# 1201
Delta R.T. -0.01 min
Lab File: BF109809.D
Acq: 12 Oct 2018 1:45

Instrument :
BNA_F
ClientSampleId :
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Tot Ion	Ratio	Lower	Upper
154	100		
153	37.7	20.4	60.4
76	15.3	0.0	31.9

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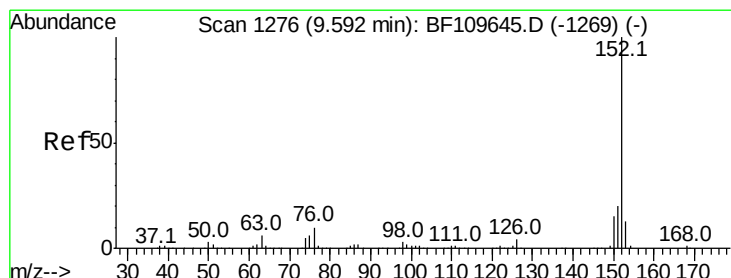
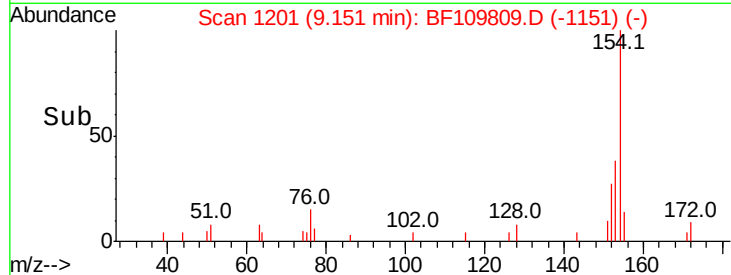
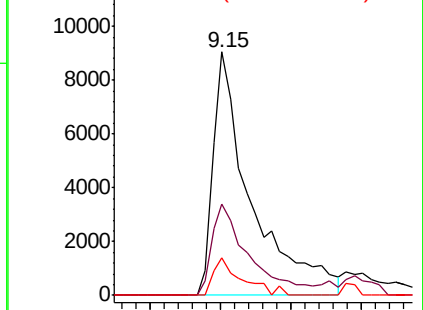


Abundance

Ion 154.00 (153.70 to 154.70): E

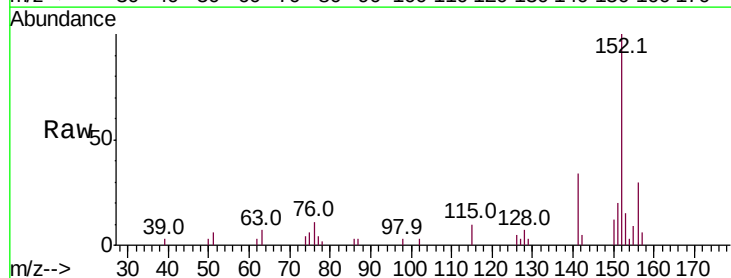
Ion 153.00 (152.70 to 153.70): E

Ion 76.00 (75.70 to 76.70): BF1



#48
Acenaphthylene
Concen: 2.026 ng
RT: 9.58 min Scan# 1274
Delta R.T. -0.01 min
Lab File: BF109809.D
Acq: 12 Oct 2018 1:45

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.7	15.8	23.8
153	15.5	10.4	15.6

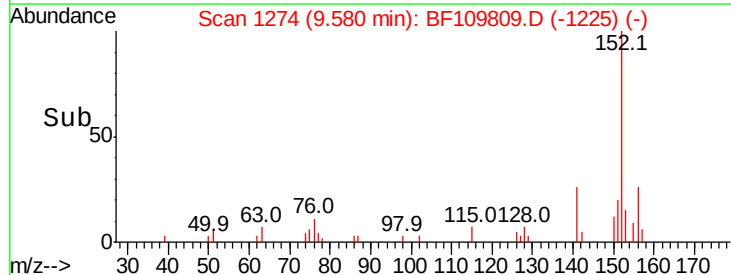
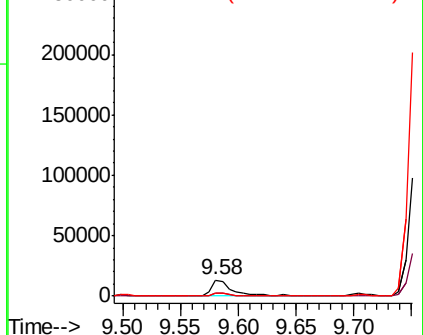


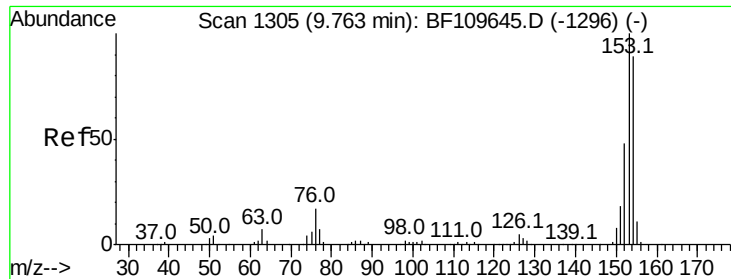
Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#51

Acenaphthene

Concen: 34.342 ng

RT: 9.75 min Scan# 1303

Delta R.T. -0.01 min

Lab File: BF109809.D

Acq: 12 Oct 2018 1:45

Instrument :

BNA_F

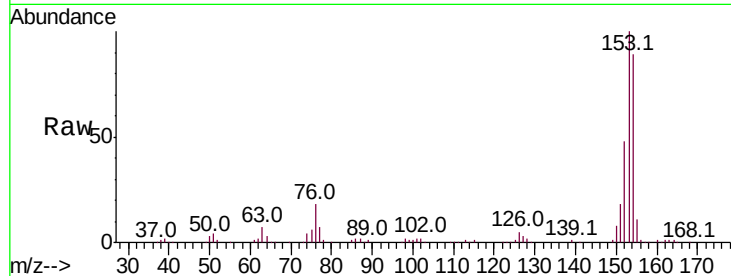
ClientSampleId :

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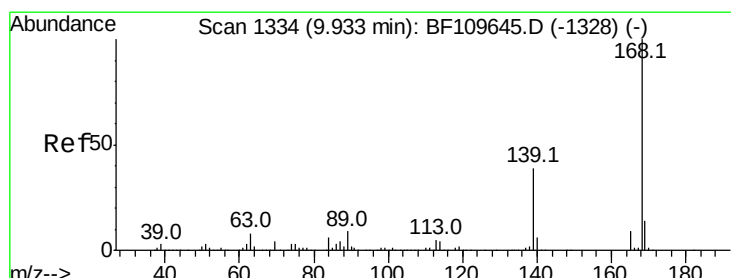
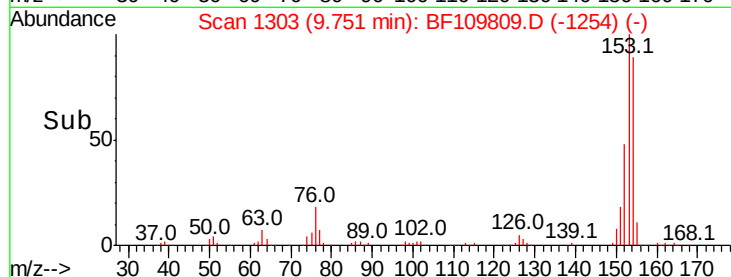
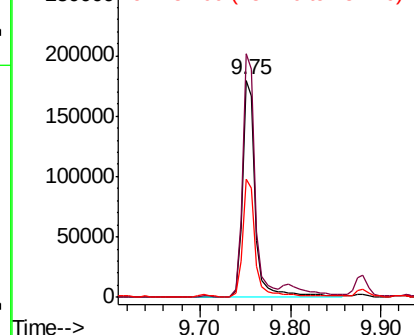
Tot Ion:	154	Resp:	183063
Ion Ratio	Lower	Upper	
154	100		
153	112.0	90.1	135.1
152	54.2	43.4	65.2

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: 21.837 ng

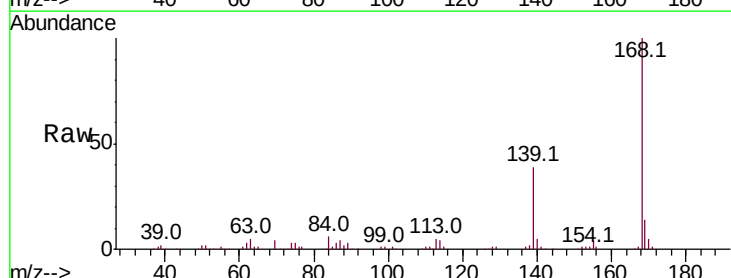
RT: 9.93 min Scan# 1333

Delta R.T. -0.01 min

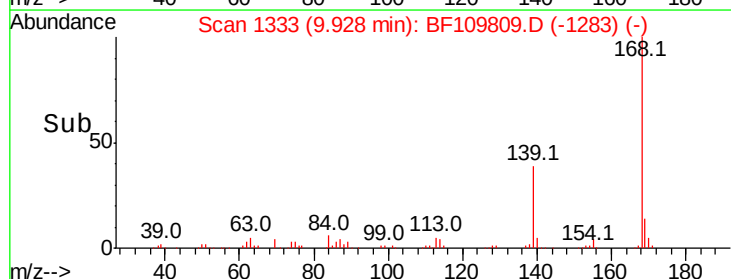
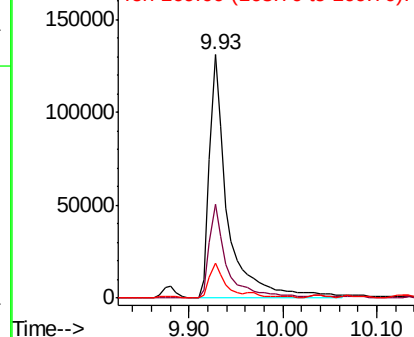
Lab File: BF109809.D

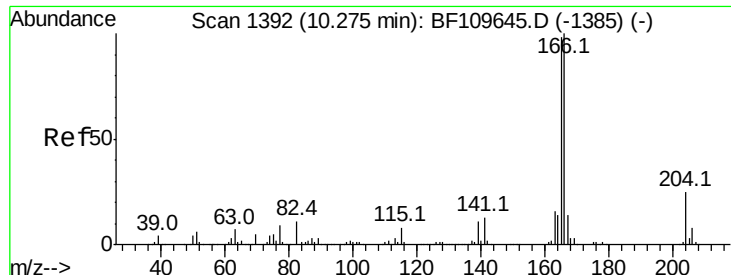
Acq: 12 Oct 2018 1:45

Tgt Ion:	168	Resp:	174488
Ion Ratio	Lower	Upper	
168	100		
139	38.6	33.0	49.6
169	14.3	11.3	16.9



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





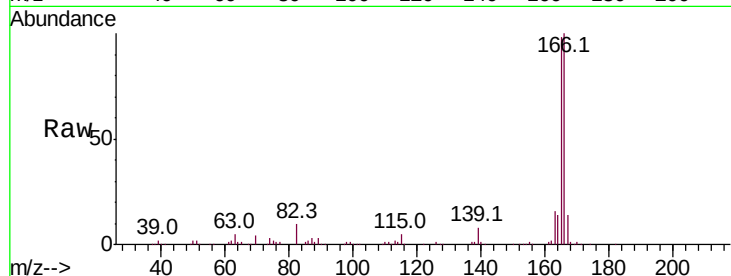
#57
Fluorene
Concen: 39.196 ng
RT: 10.27 min Scan# 1391
Delta R.T. -0.01 min
Lab File: BF109809.D
Acq: 12 Oct 2018 1:45

Instrument :
BNA_F
ClientSampleId :
DOCUMENTATION-23

Tot Ion	Ratio	Resp	Lower	Upper
166	100	233889		
165	98.1		78.6	117.8
167	13.8		10.8	16.2

Manual Integrations
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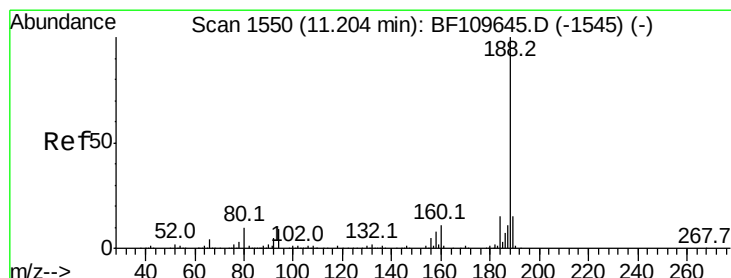
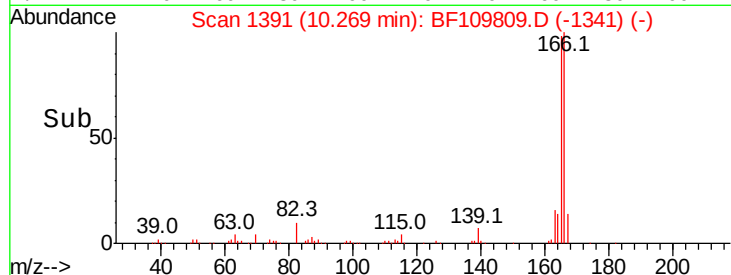
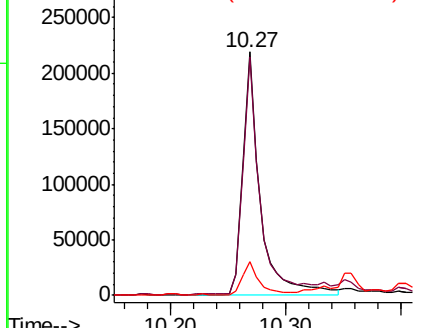


Abundance

Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.20 min Scan# 1550
Delta R.T. -0.00 min
Lab File: BF109809.D
Acq: 12 Oct 2018 1:45

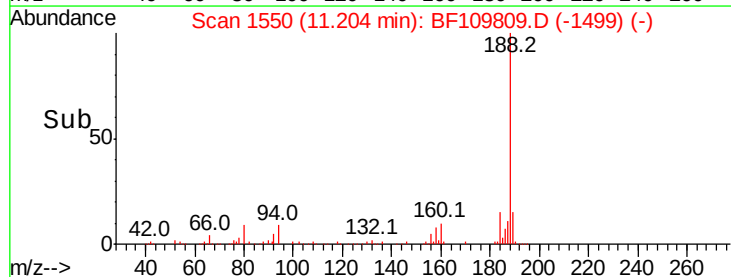
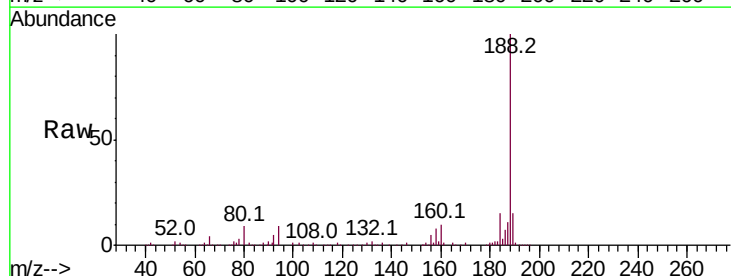
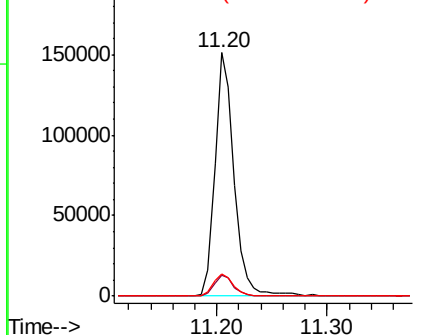
Tgt Ion	Ratio	Resp	Lower	Upper
188	100	180359		
94	8.6		7.2	10.8
80	9.2		7.9	11.9

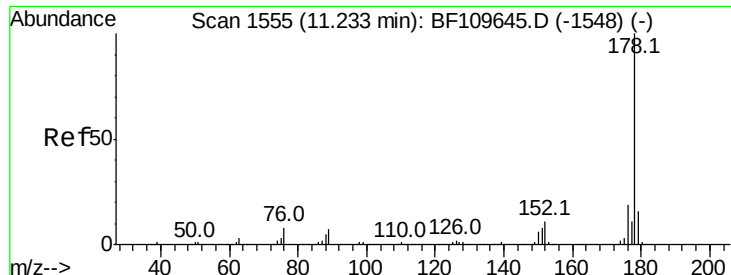
Abundance

Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1





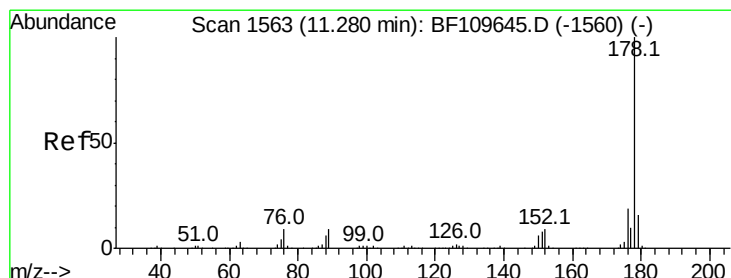
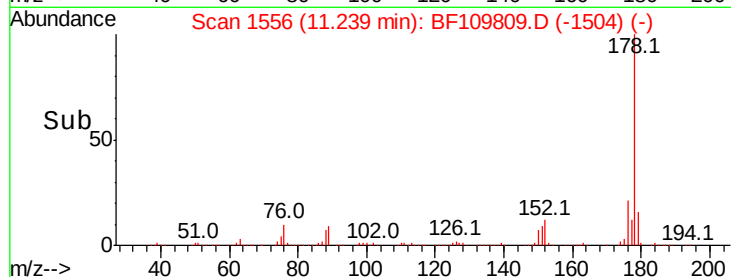
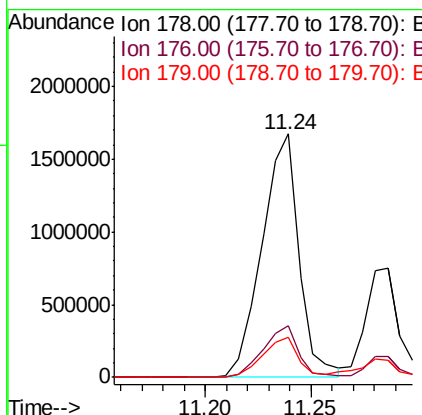
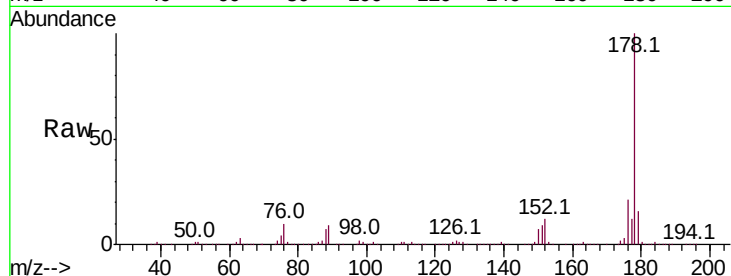
#70
Phenanthrene
Concen: 226.015 ng
RT: 11.24 min Scan# 1556
Delta R.T. 0.01 min
Lab File: BF109809.D
Acq: 12 Oct 2018 1:45

Instrument :
BNA_F
ClientSampleId :
DOCUMENTATION-23

Tot Ion	Ratio	Lower	Upper
178	100		
176	21.2	15.5	23.3
179	16.3	12.5	18.7

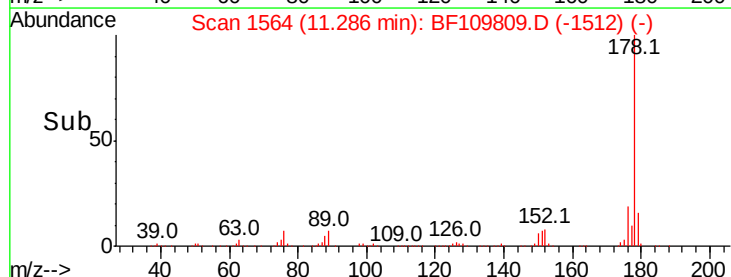
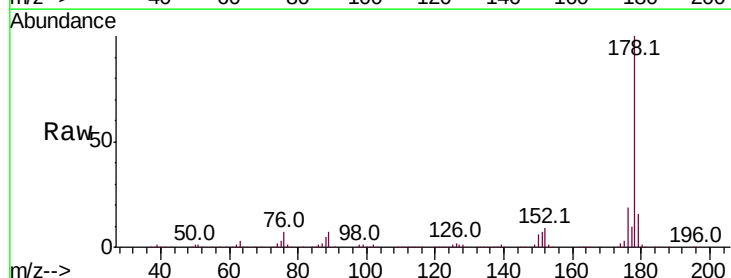
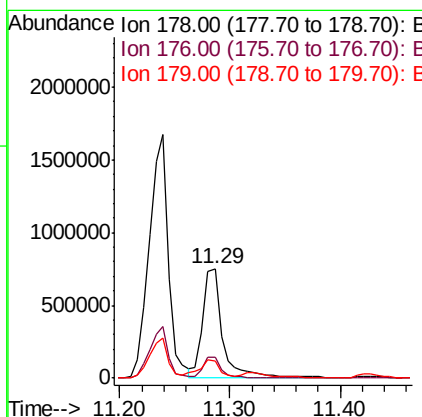
Manual Integrations
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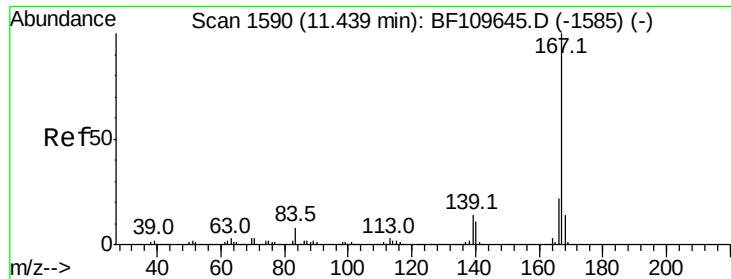
Sohil
10/12/2018 11:01:40 AM



#71
Anthracene
Concen: 96.333 ng
RT: 11.29 min Scan# 1564
Delta R.T. 0.01 min
Lab File: BF109809.D
Acq: 12 Oct 2018 1:45

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.4	23.2
179	15.6	12.6	18.8





#72

Carbazole

Concen: 33.613 ng

RT: 11.44 min Scan# 1590

Delta R.T. -0.00 min

Lab File: BF109809.D

Acq: 12 Oct 2018 1:45

Instrument :

BNA_F

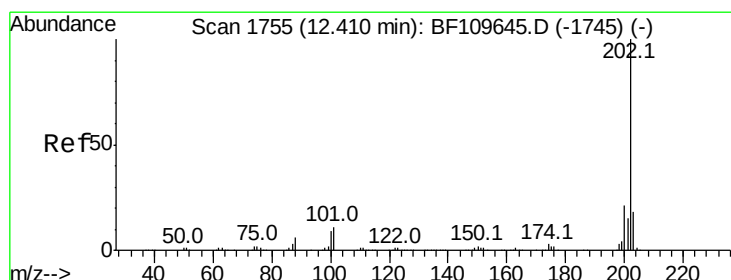
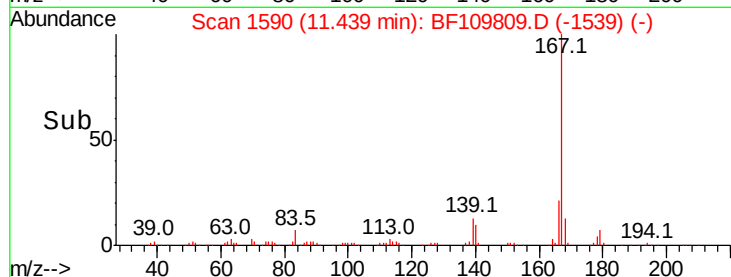
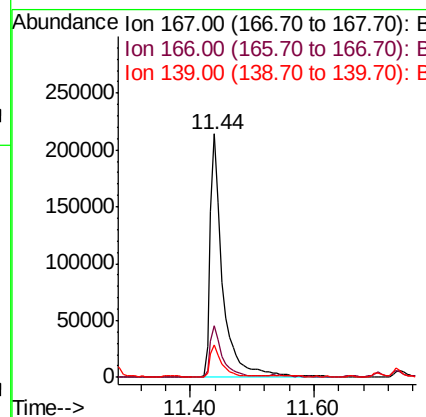
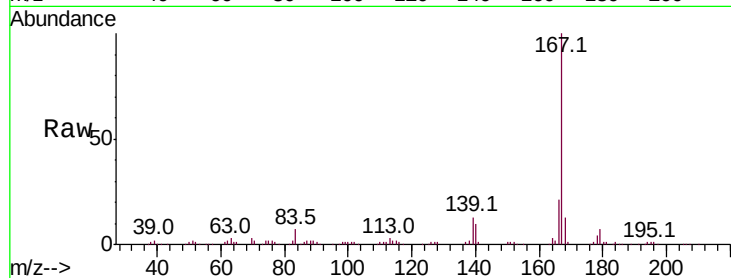
ClientSampleId :

DOCUMENTATION-23

Tot Ion:	167	Resp:	304171
Ion Ratio	Lower	Upper	
167	100		
166	20.9	17.4	26.0
139	13.1	10.9	16.3

Manual Integrations
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10/12/2018 11:01:40 AM



#74

Fluoranthene

Concen: 349.707 ng

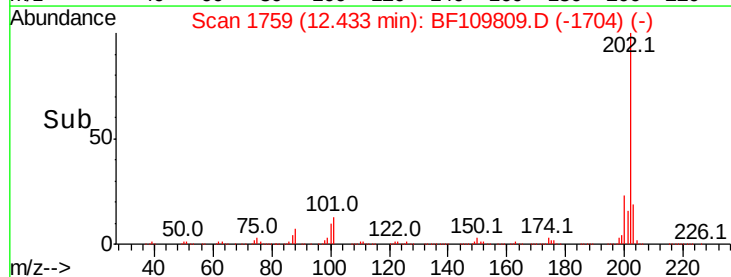
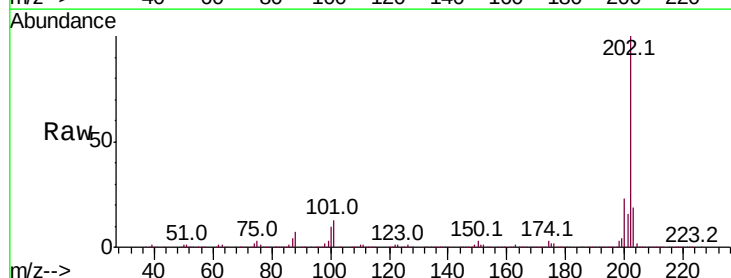
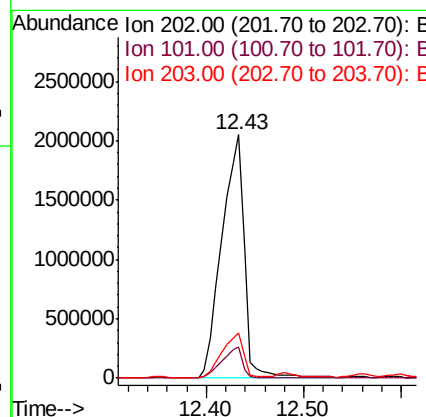
RT: 12.43 min Scan# 1759

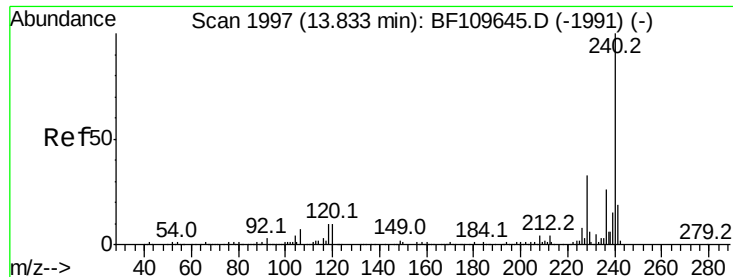
Delta R.T. 0.02 min

Lab File: BF109809.D

Acq: 12 Oct 2018 1:45

Tgt Ion:	202	Resp:	3297458
Ion Ratio	Lower	Upper	
202	100		
101	13.0	0.0	31.4
203	18.8	0.0	37.7





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.84 min Scan# 1999

Delta R.T. 0.01 min

Lab File: BF109809.D

Acq: 12 Oct 2018 1:45

Instrument :

BNA_F

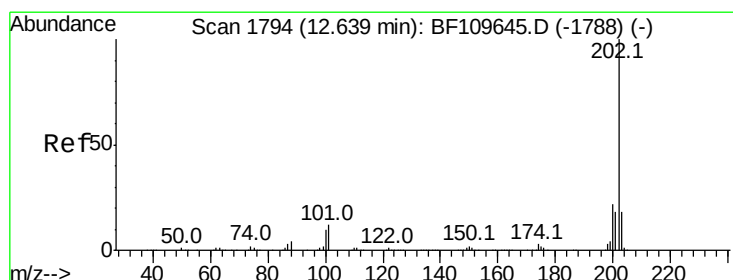
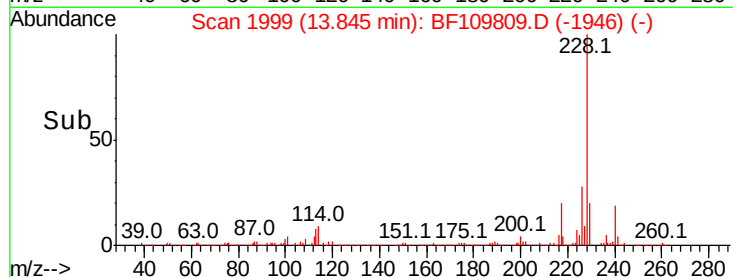
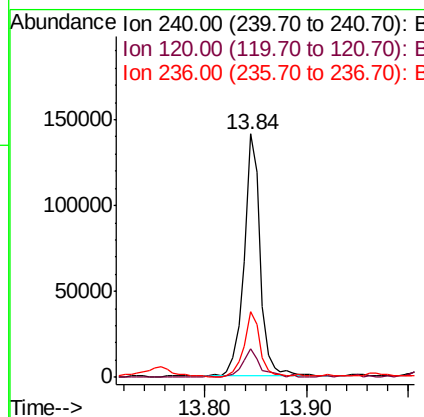
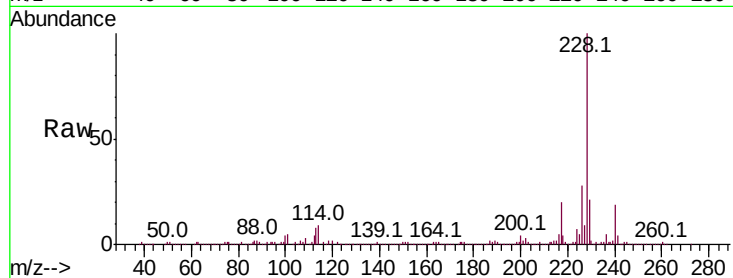
ClientSampleId :

DOCUMENTATION-23

Tot Ion	Ratio	Lower	Upper
240	100		
120	11.6	8.3	12.5
236	27.0	21.2	31.8

Manual Integrations
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#77

Pyrene

Concen: 248.436 ng

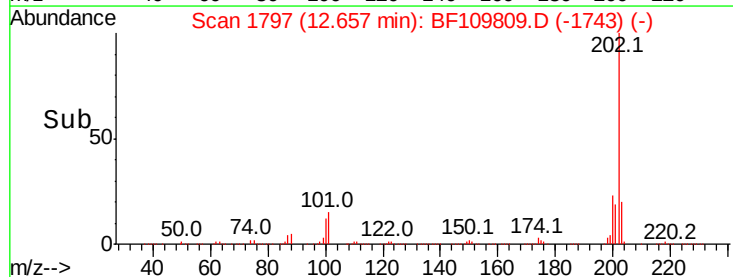
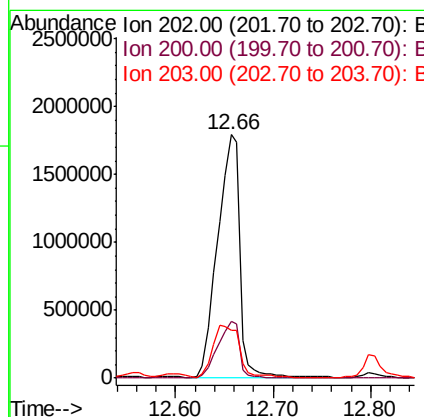
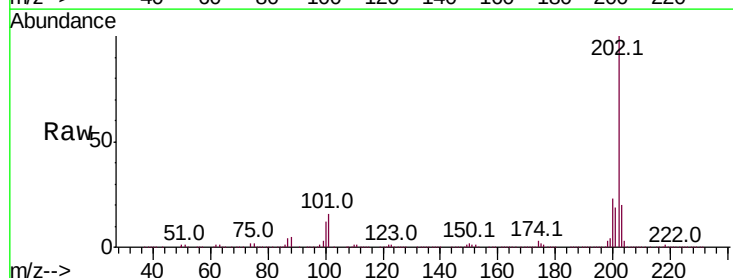
RT: 12.66 min Scan# 1797

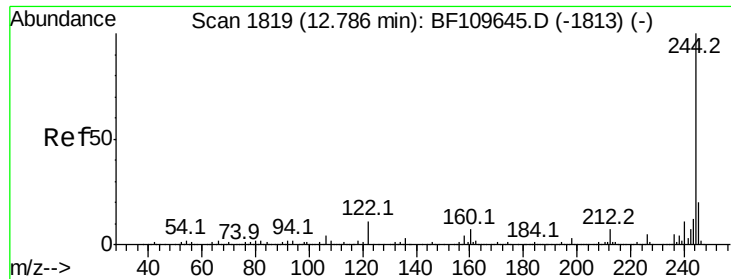
Delta R.T. 0.02 min

Lab File: BF109809.D

Acq: 12 Oct 2018 1:45

Tgt Ion	Ratio	Lower	Upper
202	100		
200	23.1	17.8	26.6
203	19.8	14.2	21.4





#78

Terphenyl-d14

Concen: 6.066 ng

RT: 12.78 min Scan# 1818

Delta R.T. -0.01 min

Lab File: BF109809.D

Acq: 12 Oct 2018 1:45

Instrument :

BNA_F

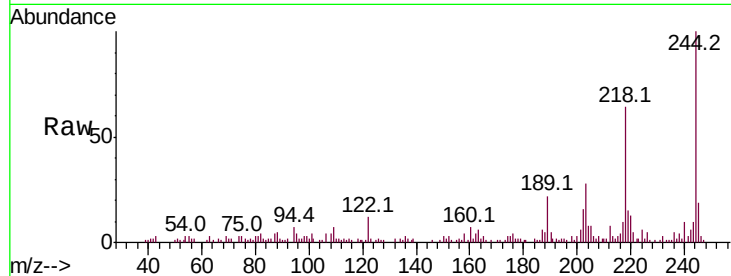
ClientSampleId :

DOCUMENTATION-23

Tot Ion	Ratio	Lower	Upper
244	100		
212	7.6	5.8	8.8
122	12.4	8.7	13.1

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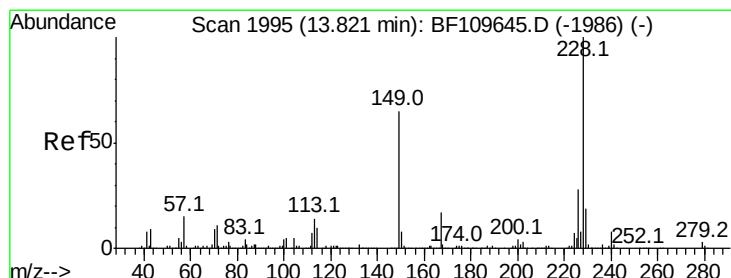
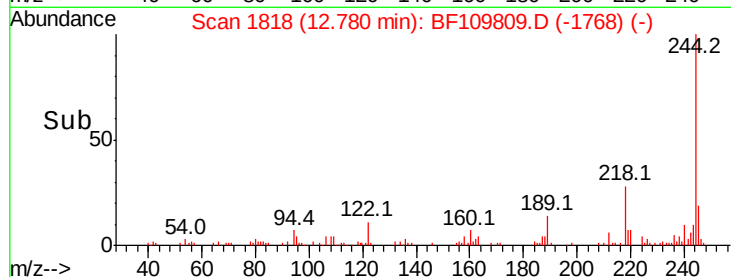
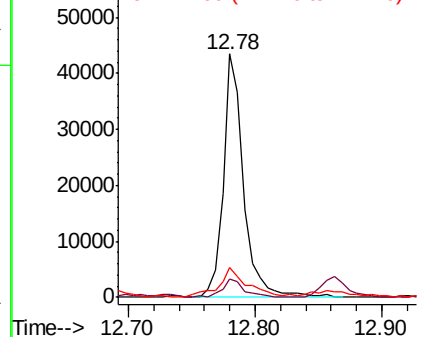


Abundance

Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#80

Benzo(a)anthracene

Concen: 211.599 ng

RT: 13.84 min Scan# 1998

Delta R.T. 0.02 min

Lab File: BF109809.D

Acq: 12 Oct 2018 1:45

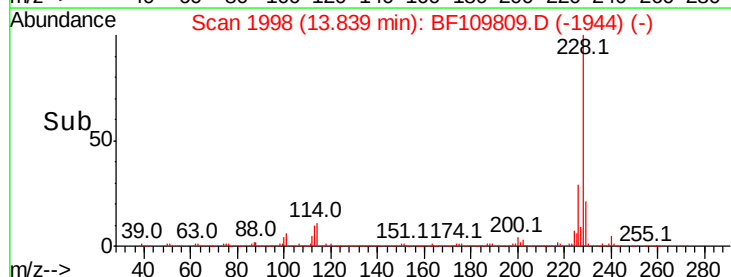
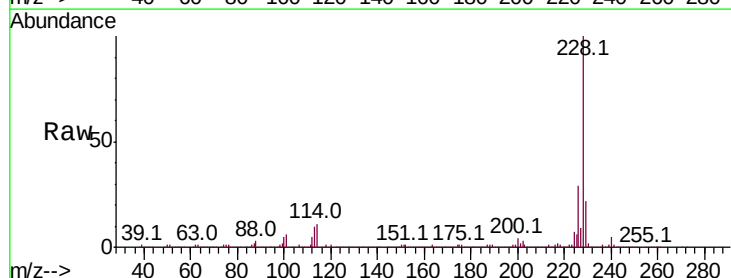
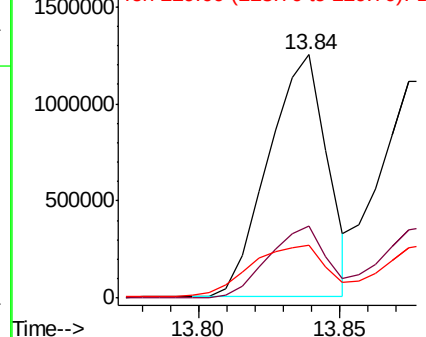
Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.4	22.1	33.1
229	21.7	15.6	23.4

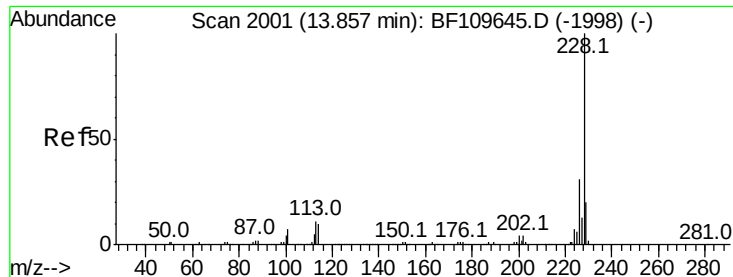
Abundance

Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 157.579 ng

RT: 13.88 min Scan# 2005

Delta R.T. 0.02 min

Lab File: BF109809.D

Acq: 12 Oct 2018 1:45

Instrument :

BNA_F

ClientSampleId :

DOCUMENTATION-23

Tot Ion:228 Resp: 1413826

Ion Ratio Lower Upper

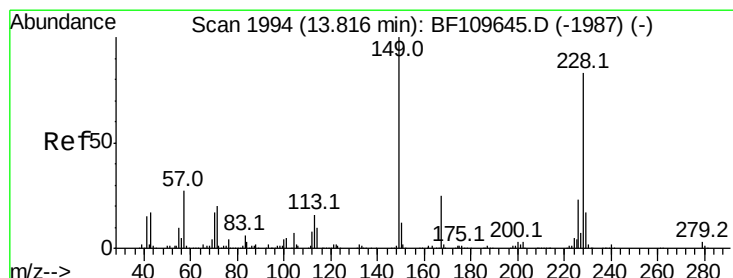
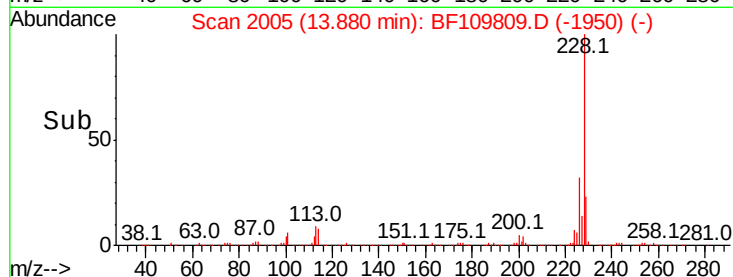
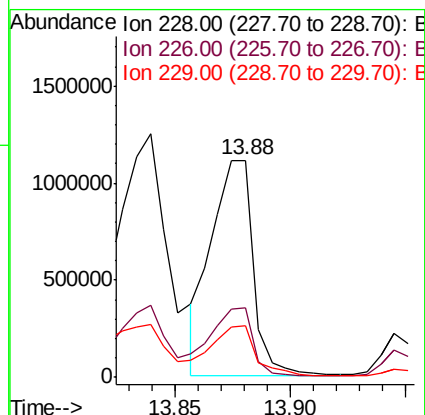
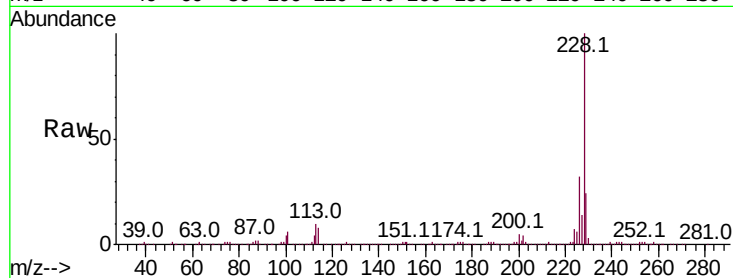
228 100

226 32.2 24.7 37.1

229 23.6 15.9 23.9

Manual Integrations
APPROVED

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10/12/2018 11:01:40 AM



#83

Bis(2-ethylhexyl)phthalate

Concen: 3.684 ng

RT: 13.82 min Scan# 1994

Delta R.T. -0.00 min

Lab File: BF109809.D

Acq: 12 Oct 2018 1:45

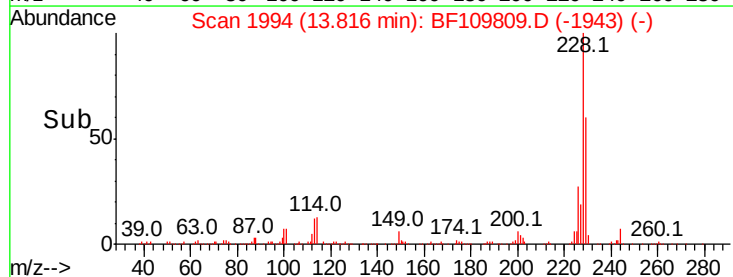
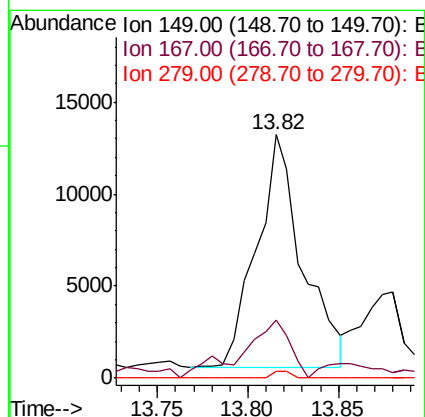
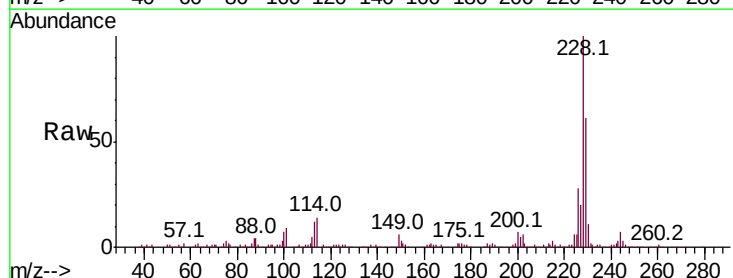
Tgt Ion:149 Resp: 22099

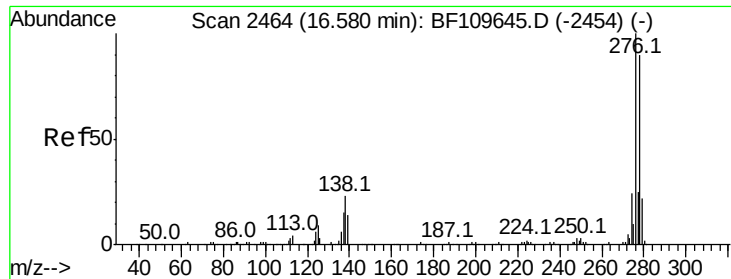
Ion Ratio Lower Upper

149 100

167 23.7 19.8 29.8

279 2.7 2.7 4.1#





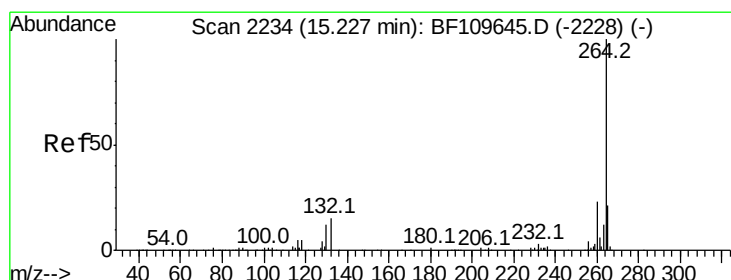
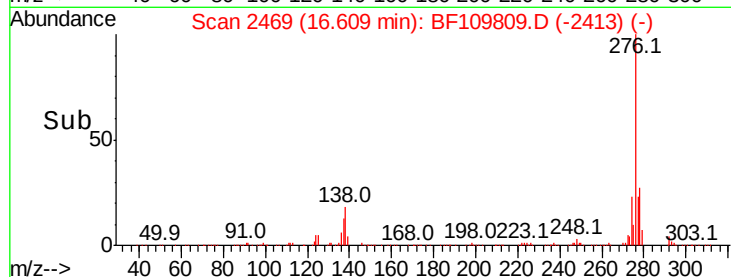
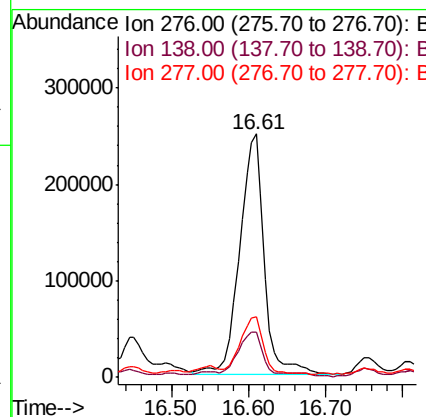
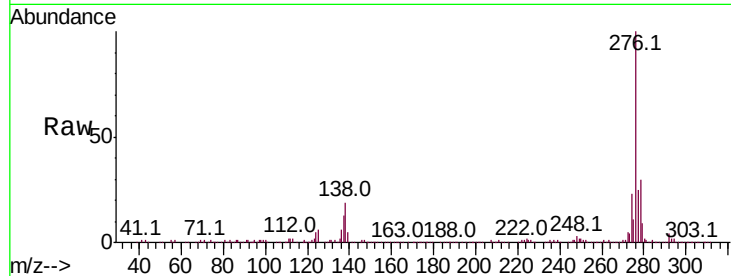
#85
Indeno(1,2,3-cd)pyrene
Concen: 86.396 ng
RT: 16.61 min Scan# 2469
Delta R.T. 0.03 min
Lab File: BF109809.D
Acq: 12 Oct 2018 1:45

Instrument :
BNA_F
ClientSampleId :
DOCUMENTATION-23

Tot Ion	Ratio	Lower	Upper
276	100		
138	18.4	18.5	27.7#
277	22.6	20.0	30.0

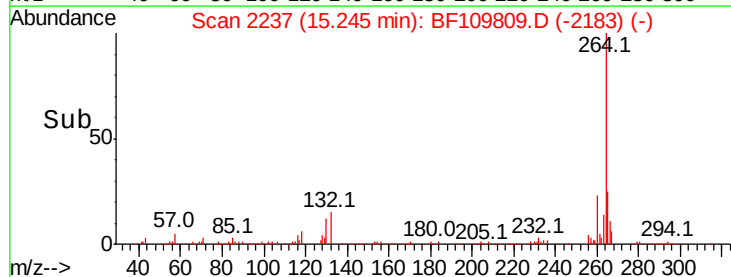
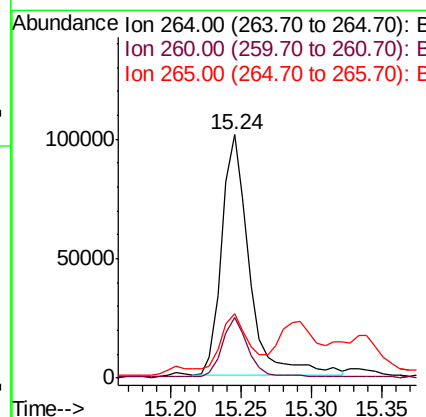
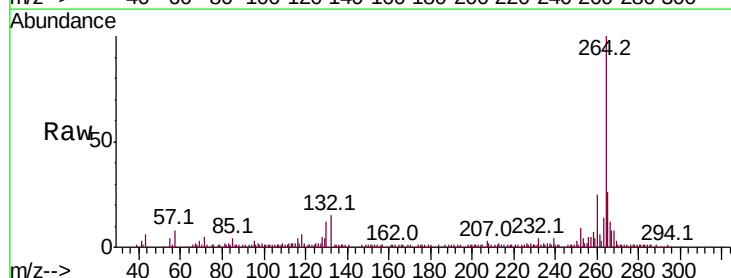
Manual Integrations
APPROVED

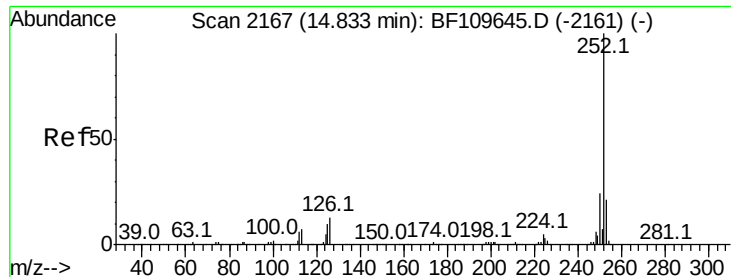
Sohil
10/12/2018 11:01:40 AM



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.24 min Scan# 2237
Delta R.T. 0.02 min
Lab File: BF109809.D
Acq: 12 Oct 2018 1:45

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.8	18.7	28.1
265	26.5	16.7	25.1#





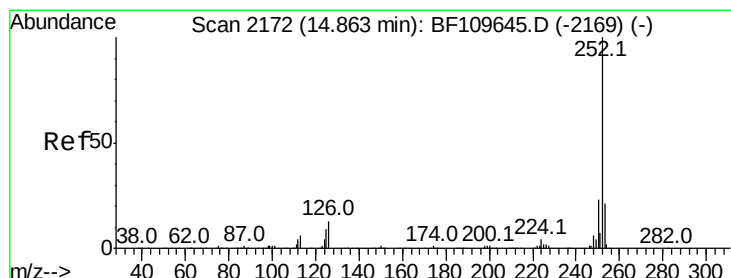
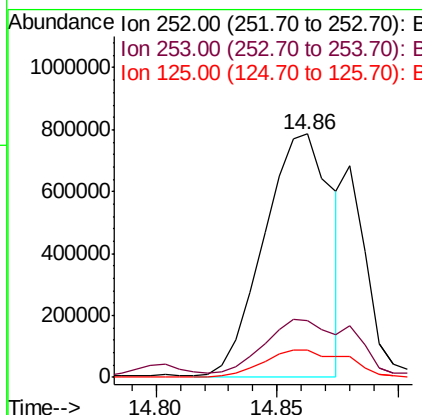
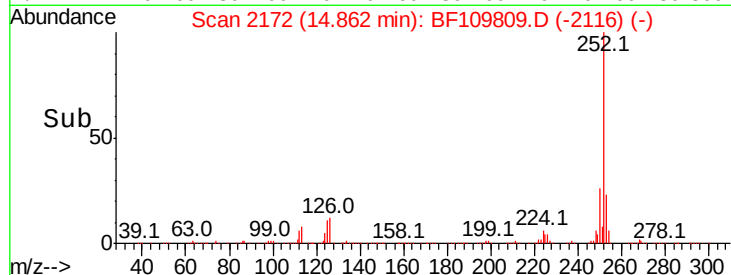
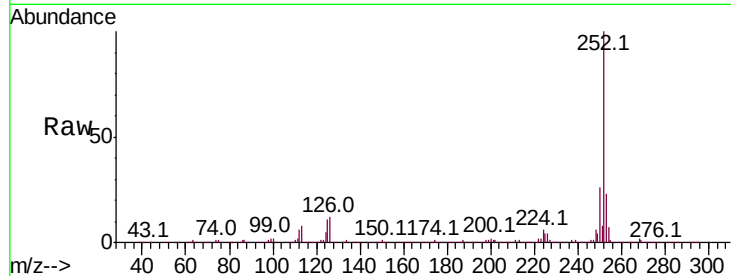
#87
Benzo(b)fluoranthene
Concen: 204.483 ng m
RT: 14.86 min Scan# 2172
Delta R.T. 0.03 min
Lab File: BF109809.D
Acq: 12 Oct 2018 1:45

Instrument :
BNA_F
ClientSampleId :
DOCUMENTATION-23

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.4	17.2	25.8
125	11.0	8.2	12.4

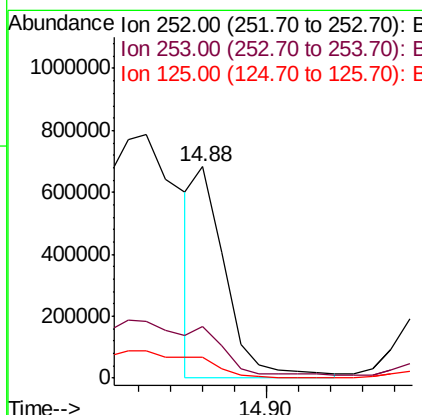
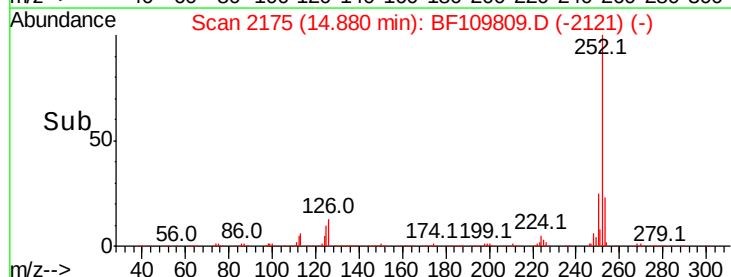
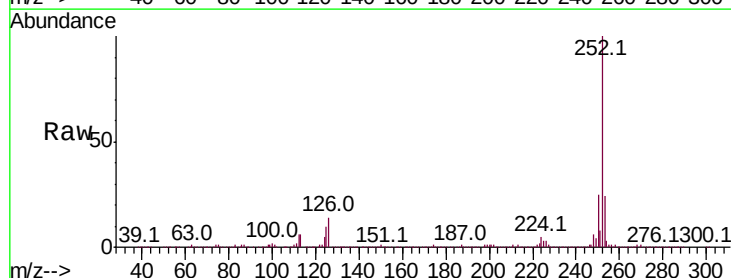
Manual Integrations
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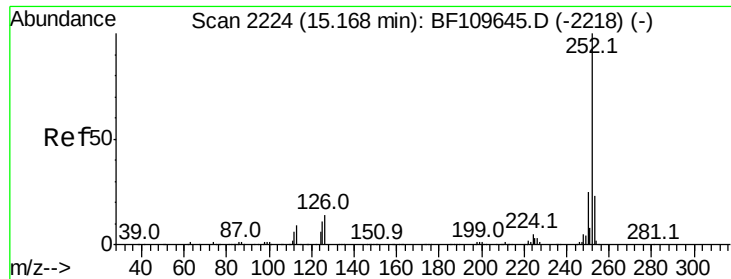
Sohil
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#88
Benzo(k)fluoranthene
Concen: 61.625 ng m
RT: 14.88 min Scan# 2175
Delta R.T. 0.02 min
Lab File: BF109809.D
Acq: 12 Oct 2018 1:45

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.5	17.2	25.8
125	10.0	7.4	11.0





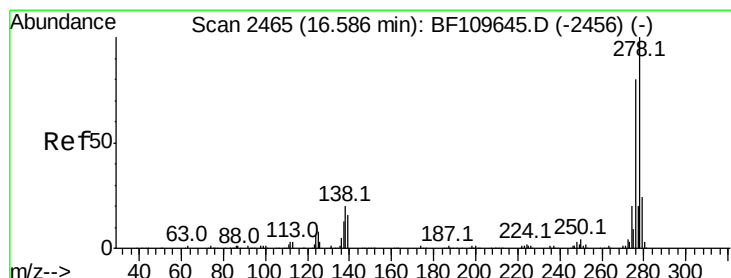
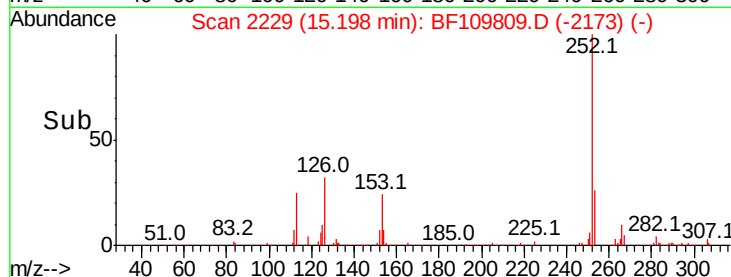
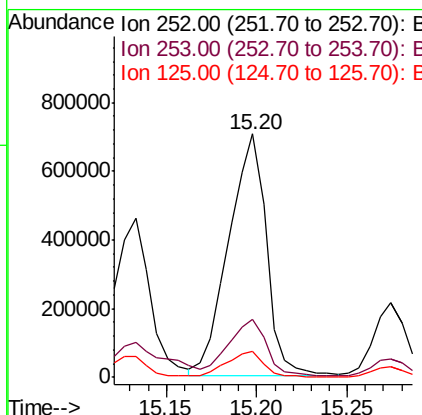
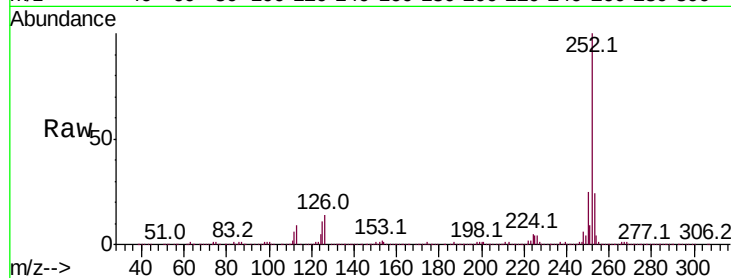
#89
Benzo(a)pyrene
Concen: 149.493 ng
RT: 15.20 min Scan# 2229
Delta R.T. 0.03 min
Lab File: BF109809.D
Acq: 12 Oct 2018 1:45

Instrument :
BNA_F
ClientSampleId :
DOCUMENTATION-23

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.9	18.2	27.4
125	10.7	9.0	13.6

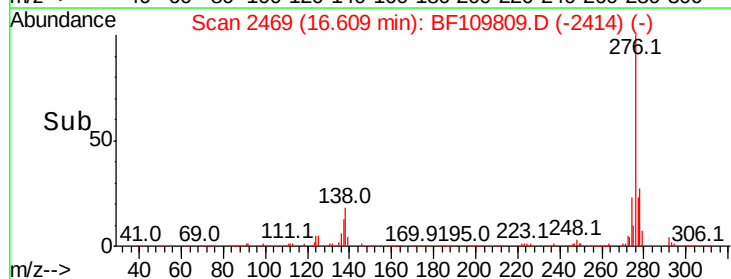
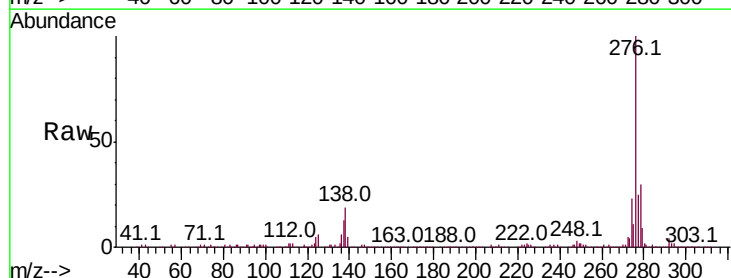
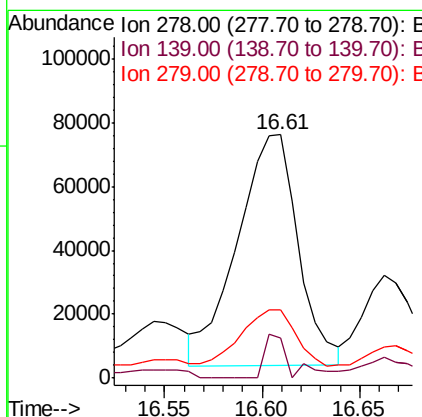
Manual Integrations
APPROVED

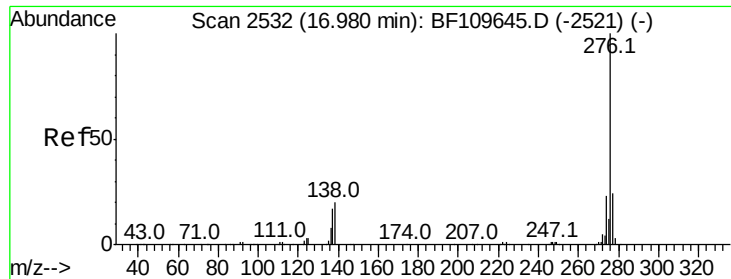
Sohil
10/12/2018 11:01:40 AM



#90
Dibenzo(a,h)anthracene
Concen: 27.948 ng
RT: 16.61 min Scan# 2469
Delta R.T. 0.02 min
Lab File: BF109809.D
Acq: 12 Oct 2018 1:45

Tgt Ion	Ratio	Lower	Upper
278	100		
139	16.6	12.7	19.1
279	28.2	19.0	28.4





#91
 Benzo(a,h,i)perylene
 Concen: 83.540 ng
 RT: 17.02 min Scan# 2538
 Delta R.T. 0.04 min
 Lab File: BF109809.D
 Acq: 12 Oct 2018 1:45

Instrument :
 BNA_F
 ClientSampleId :
 DOCUMENTATION-23

Tot Ion	Ratio	Lower	Upper
276	100		
277	24.3	18.8	28.2
138	19.0	16.0	24.0

Manual Integrations
 APPROVED

Sohil
 10/12/2018 11:01:40 AM

