

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF100920\
 Data File : BF121909.D
 Acq On : 9 Oct 2020 16:42
 Operator : JU/CG
 Sample : L4309-03DL 10X
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 OWLS-HEAD-BH-04-ADL

Manual Integrations
 APPROVED

mohammad
 10/12/2020 11:34:07 AM

Quant Time: Oct 09 18:02:23 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF091020.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Oct 01 14:29:14 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.76	152	120025	20.00	ng	-0.01
21) Naphthalene-d8	8.04	136	479641	20.00	ng	-0.02
39) Acenaphthene-d10	9.79	164	234329	20.00	ng	-0.02
64) Phenanthrene-d10	11.28	188	385508	20.00	ng	-0.01
76) Chrysene-d12	13.92	240	270810	20.00	ng	-0.01
86) Perylene-d12	15.36	264	313791	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.40	112	7589	0.94	ng	0.01
7) Phenol-d6	6.42	99	31510	2.97	ng	0.00
23) Nitrobenzene-d5	7.33	82	34585	3.87	ng	-0.01
42) 2,4,6-Tribromophenol	0.00	330	0	0.00	ng	
45) 2-Fluorobiphenyl	9.12	172	74390	4.81	ng	-0.02
79) Terphenyl-d14	12.86	244	58289	4.36	ng	-0.02
Target Compounds						
49) Acenaphthylene	9.65	152	181699	8.000	ng	99
71) Phenanthrene	11.30	178	279087	13.287	ng	98
72) Anthracene	11.35	178	166611	7.687	ng	99
75) Fluoranthene	12.50	202	1129871	50.392	ng	98
78) Pyrene	12.72	202	1023361	51.721	ng	100
81) Benzo(a)anthracene	13.91	228	774784m	45.222	ng	
83) Chrysene	13.94	228	596104	34.359	ng	98
87) Indeno(1,2,3-cd)pyrene	16.78	276	399273	19.539	ng	94
88) Benzo(b)fluoranthene	14.95	252	936388m	44.638	ng	
89) Benzo(k)fluoranthene	14.97	252	254363m	13.241	ng	
90) Benzo(a)pyrene	15.30	252	628129	35.226	ng	97
91) Dibenzo(a,h)anthracene	16.78	278	126705m	7.449	ng	
92) Benzo(a,h,i)perylene	17.21	276	329569	19.710	ng	98

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

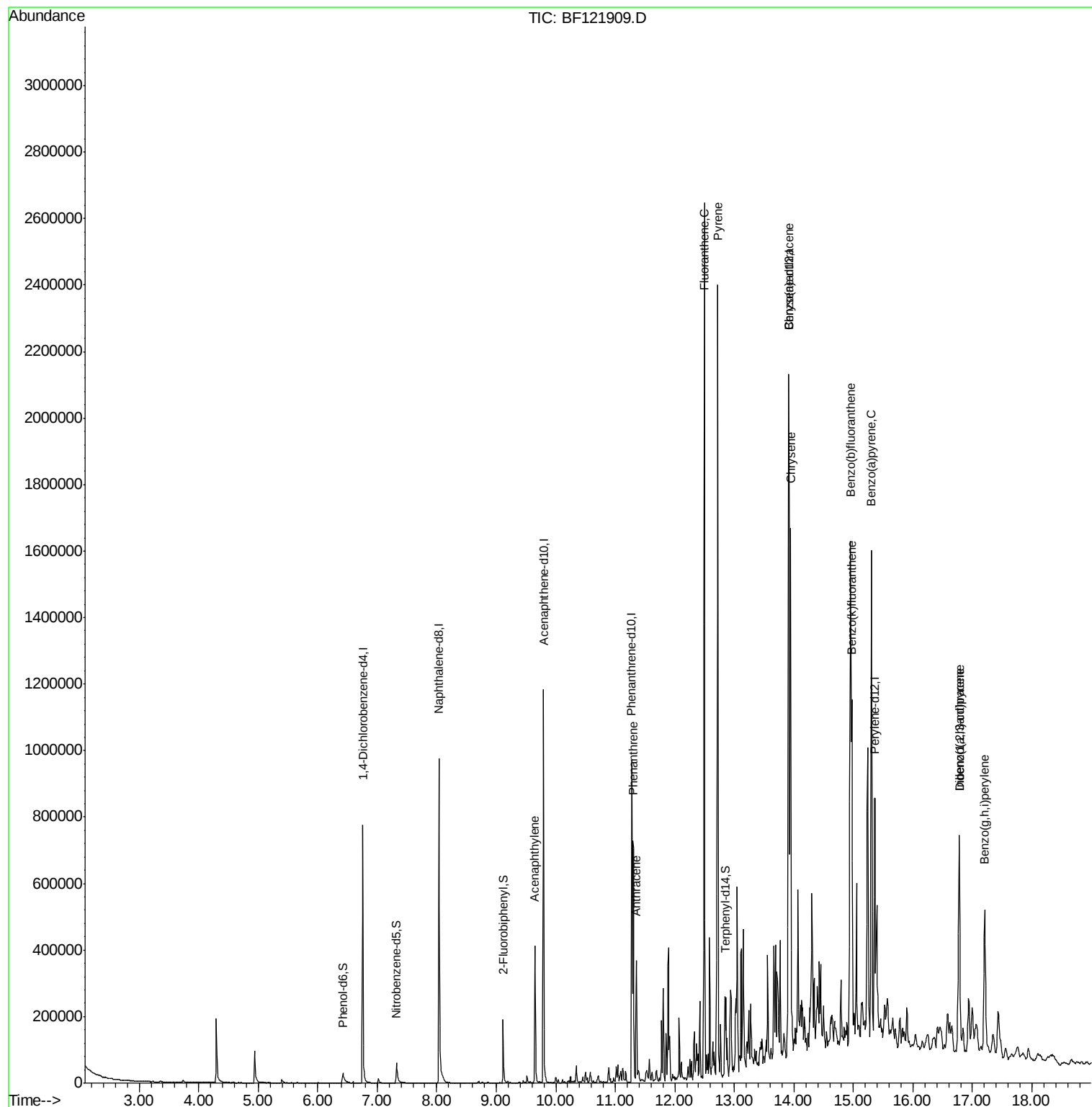
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF100920\
Data File : BF121909.D
Acq On : 9 Oct 2020 16:42
Operator : JU/CG
Sample : L4309-03DL 10X
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ALS Vial : 10 Sample Multiplier: 1

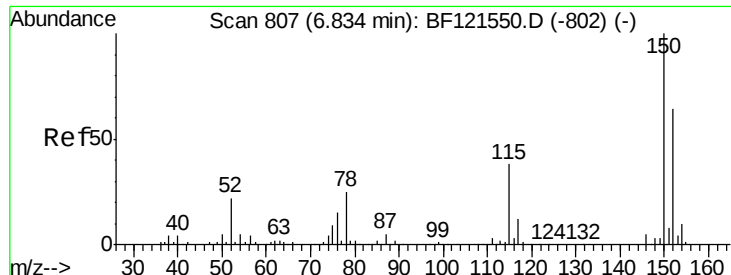
Instrument :
BNA_F
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OWLS-HEAD-BH-04-ADL

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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF091020.M
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#1

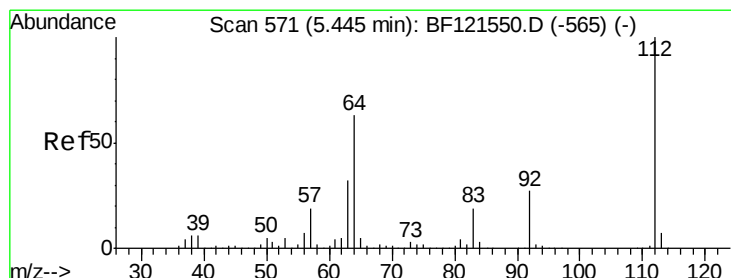
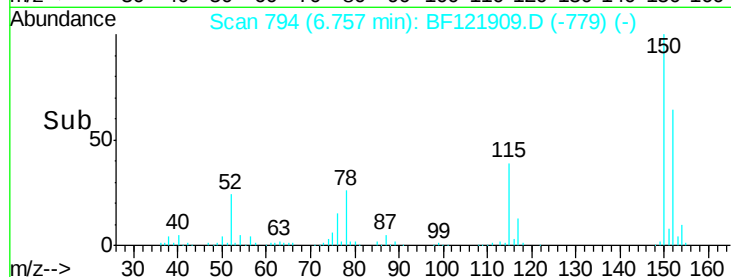
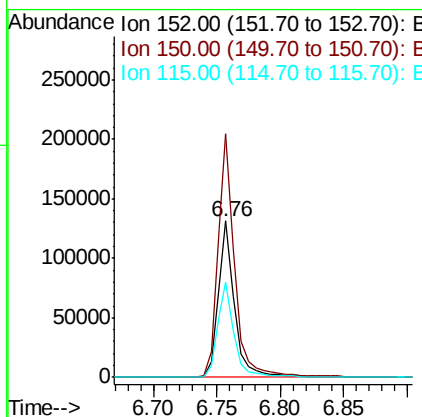
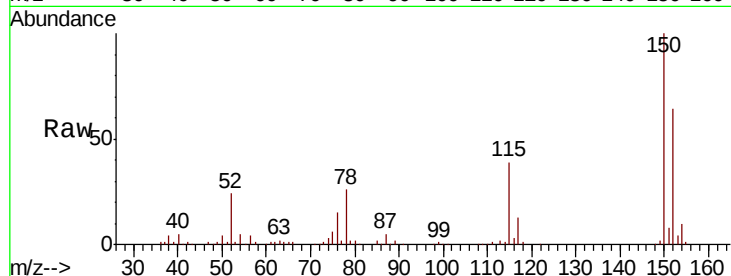
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.76 min Scan# 794
Delta R.T. -0.01 min
Lab File: BF121909.D
Acq: 9 Oct 2020 16:42

Instrument :
BNA_F
ClientSampleId :
OWLS-HEAD-BH-04-ADL

Tot Ion	Ratio	Lower	Upper
152	100		
150	155.7	125.3	187.9
115	61.0	51.9	77.9

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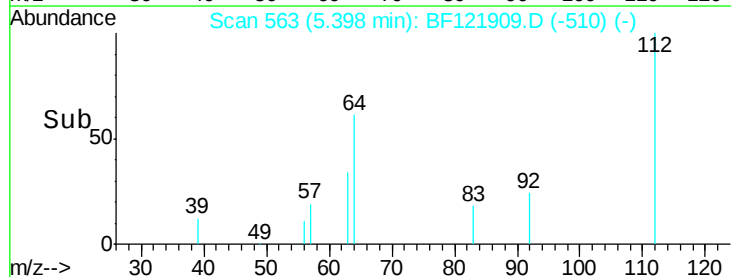
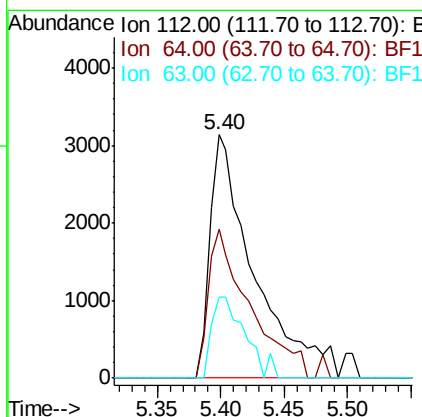
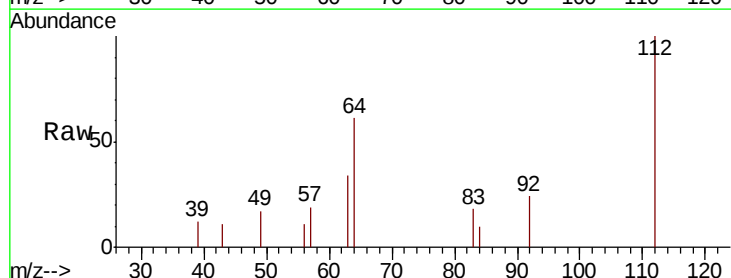
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#5

2-Fluorophenol
Concen: 0.940 ng
RT: 5.40 min Scan# 563
Delta R.T. 0.01 min
Lab File: BF121909.D
Acq: 9 Oct 2020 16:42

Tgt Ion	Ratio	Lower	Upper
112	100		
64	61.0	50.4	75.6
63	33.5	25.8	38.6





#7

Phenol-d6

Concen: 2.974 ng

RT: 6.42 min Scan# 736

Delta R.T. 0.00 min

Lab File: BF121909.D

Acq: 9 Oct 2020 16:42

Instrument :

BNA_F

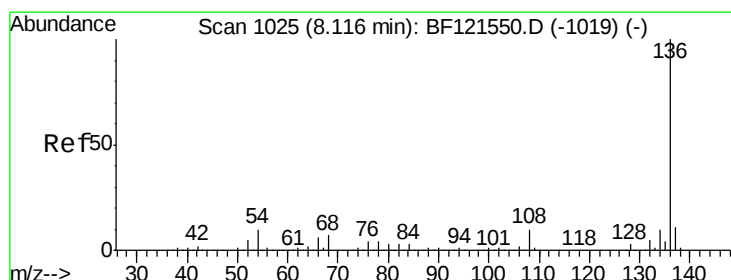
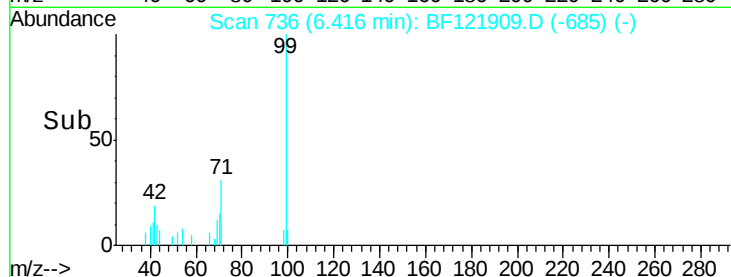
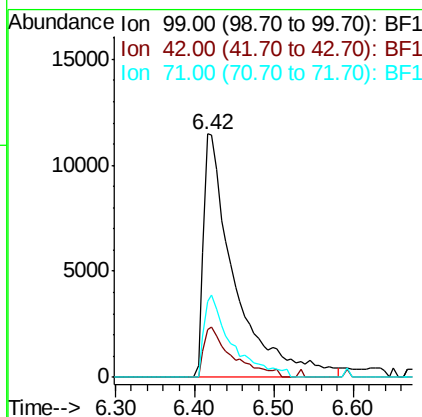
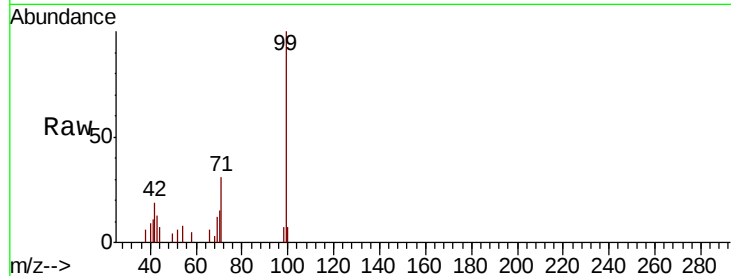
ClientSampleId :

OWLS-HEAD-BH-04-ADL

Tot Ion:	99	Resp:	31510
Ion Ratio	Lower	Upper	
99	100		
42	19.5	15.9	23.9
71	31.2	27.1	40.7

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#21

Naphthalene-d8

Concen: 20.000 ng

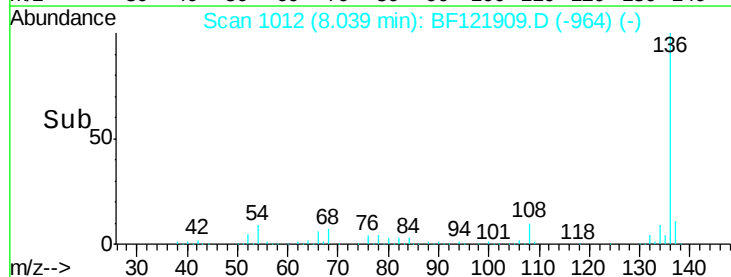
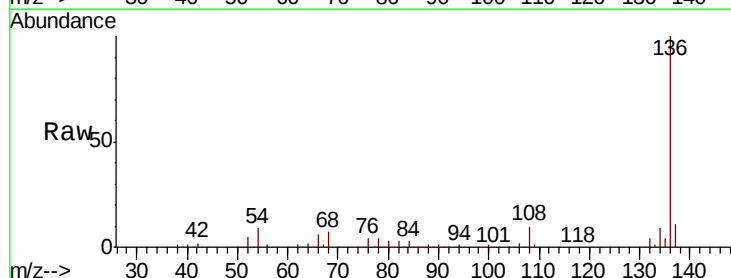
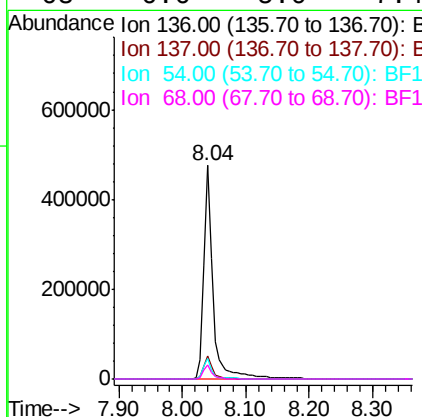
RT: 8.04 min Scan# 1012

Delta R.T. -0.02 min

Lab File: BF121909.D

Acq: 9 Oct 2020 16:42

Tgt Ion:	136	Resp:	479641
Ion Ratio	Lower	Upper	
136	100		
137	10.7	8.6	13.0
54	9.4	7.1	10.7
68	6.6	5.0	7.4





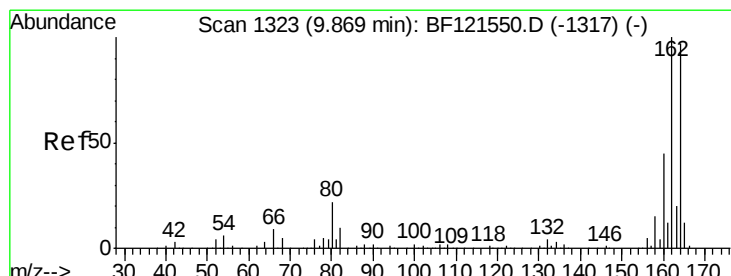
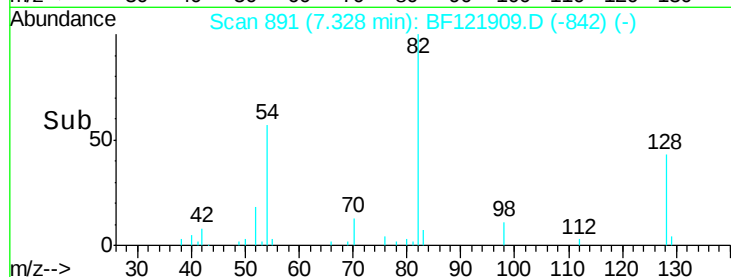
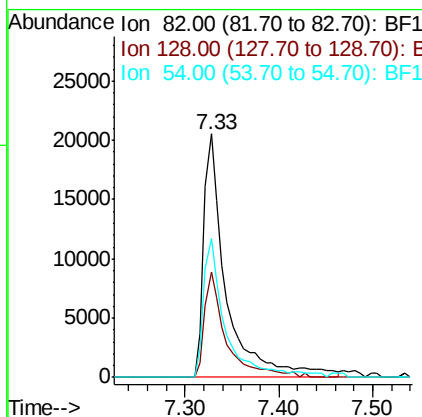
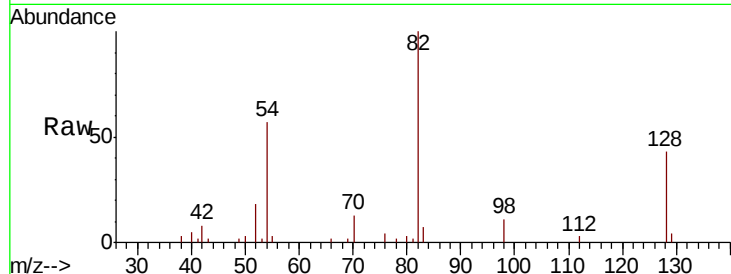
#23
Nitrobenzene-d5
Concen: 3.872 ng
RT: 7.33 min Scan# 891
Delta R.T. -0.01 min
Lab File: BF121909.D
Acq: 9 Oct 2020 16:42

Instrument :
BNA_F
ClientSampleId :
OWLS-HEAD-BH-04-ADL

Tot Ion	82	Resp	34585
Ion Ratio	100	Lower	Upper
128	43.2	35.0	52.4
54	56.8	43.9	65.9

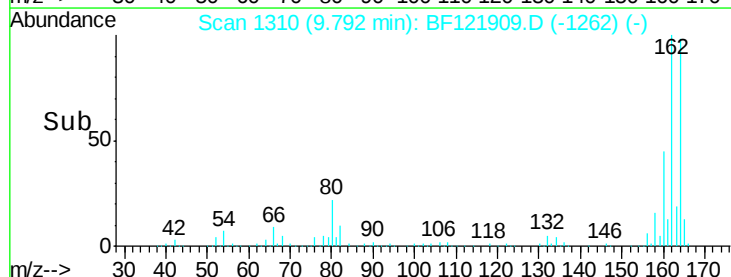
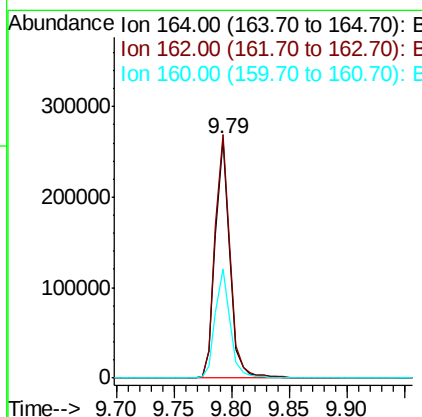
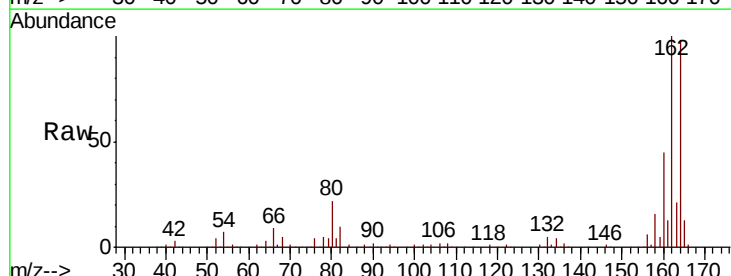
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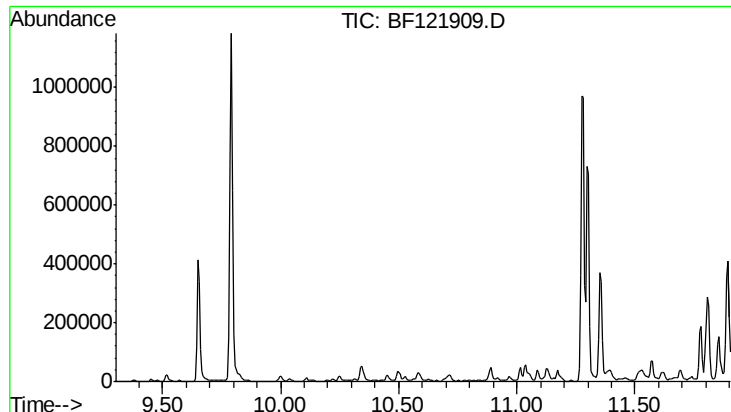
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#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.79 min Scan# 1310
Delta R.T. -0.02 min
Lab File: BF121909.D
Acq: 9 Oct 2020 16:42

Tgt Ion	164	Resp	234329
Ion Ratio <td>100</td> <td>Lower</td> <td>Upper</td>	100	Lower	Upper
162	101.9	83.2	124.8
160	45.7	37.5	56.3





#42

2,4,6-Tribromophenol

Concen: 0.000 ng

Expected RT: 10.60 min

Lab File: BF121909.D

Acq: 9 Oct 2020 16:42

Tot Ion: 330

Sig Exp Ratio

330 100

332 96.6

141 27.9

Instrument :

BNA_F

ClientSampleId :

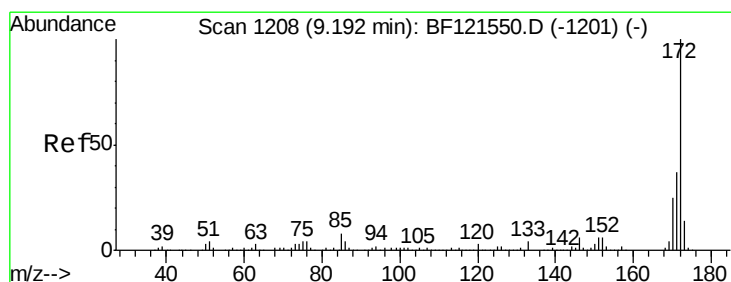
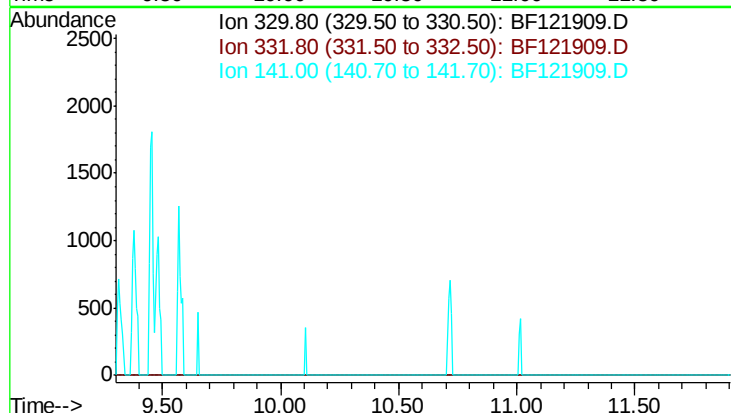
OWLS-HEAD-BH-04-ADL

Manual Integrations

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#45

2-Fluorobiphenyl

Concen: 4.808 ng

RT: 9.12 min Scan# 1195

Delta R.T. -0.02 min

Lab File: BF121909.D

Acq: 9 Oct 2020 16:42

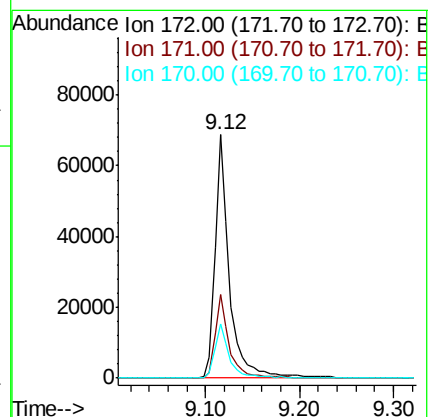
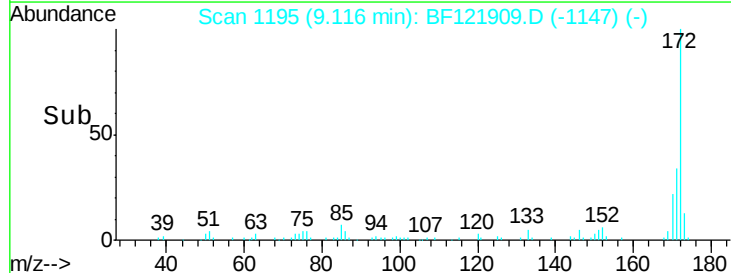
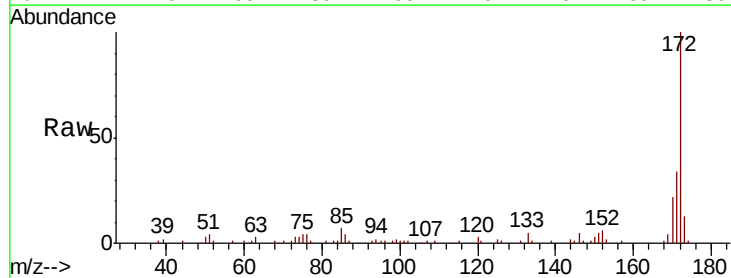
Tgt Ion:172 Resp: 74390

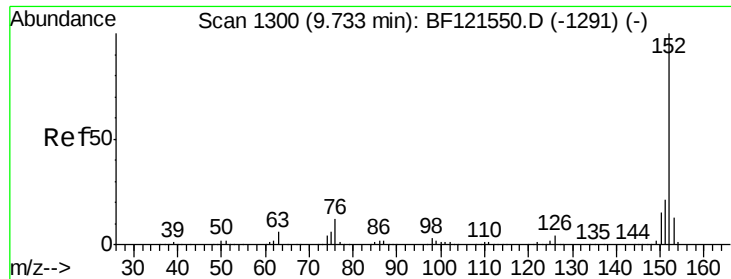
Ion Ratio Lower Upper

172 100

171 34.3 29.1 43.7

170 22.0 19.8 29.6





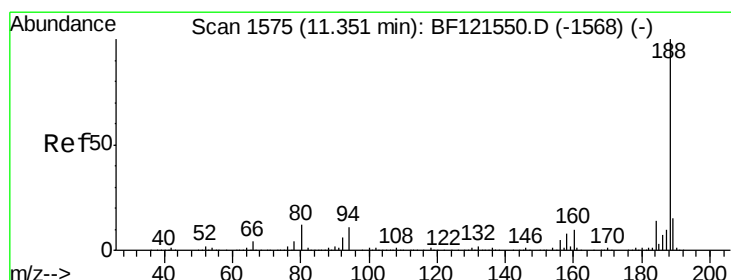
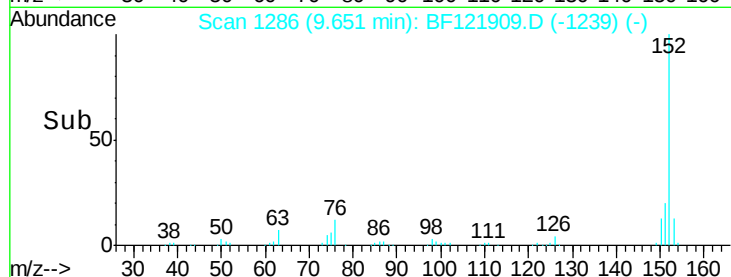
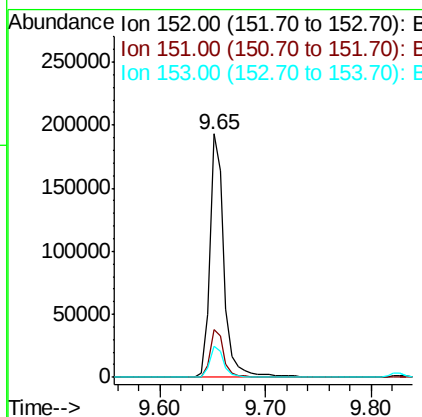
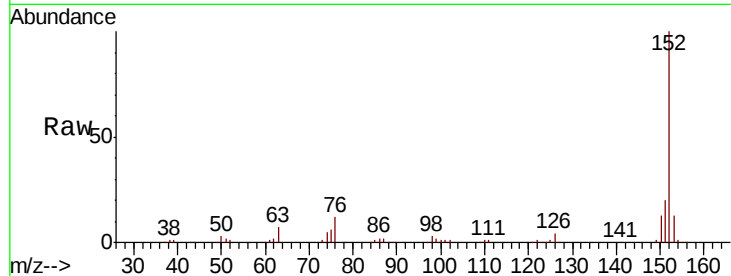
#49
Acenaphthylene
Concen: 8.000 ng
RT: 9.65 min Scan# 1286
Delta R.T. -0.02 min
Lab File: BF121909.D
Acq: 9 Oct 2020 16:42

Instrument :
BNA_F
ClientSampleId :
OWLS-HEAD-BH-04-ADL

Tot Ion	Ratio	Lower	Upper
152	100		
151	19.8	16.4	24.6
153	13.0	10.6	15.8

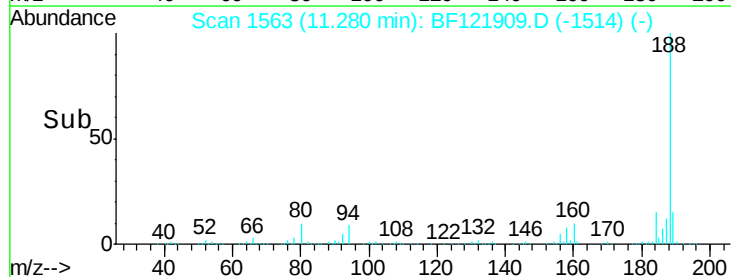
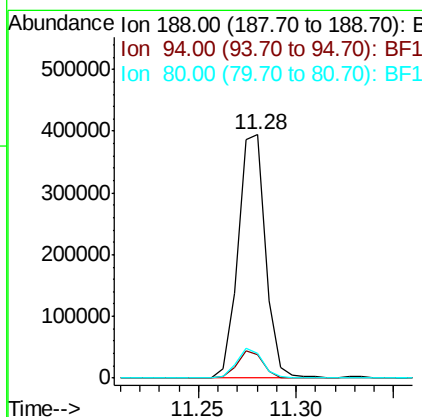
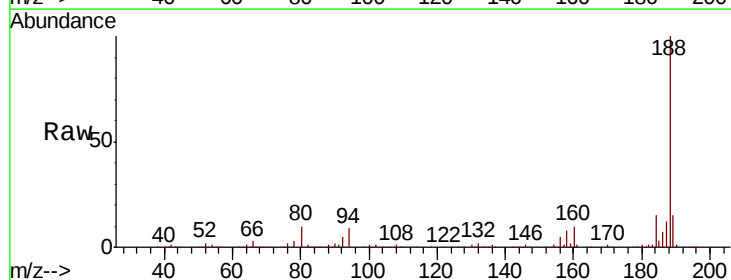
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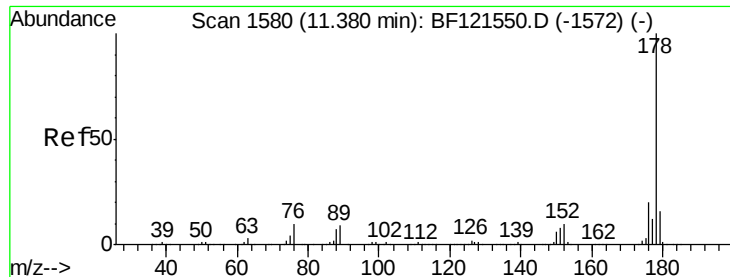
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#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.28 min Scan# 1563
Delta R.T. -0.01 min
Lab File: BF121909.D
Acq: 9 Oct 2020 16:42

Tgt Ion	Ratio	Lower	Upper
188	100		
94	9.4	8.3	12.5
80	10.3	9.1	13.7





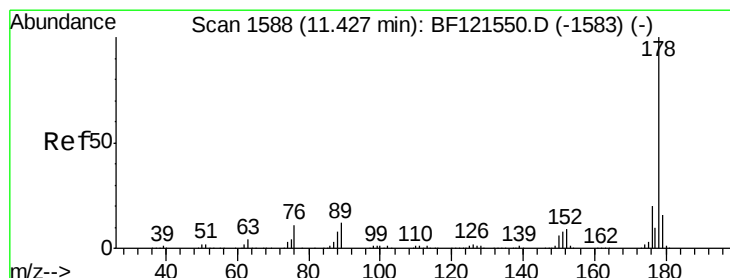
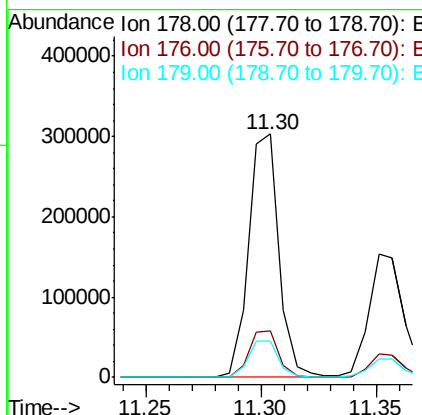
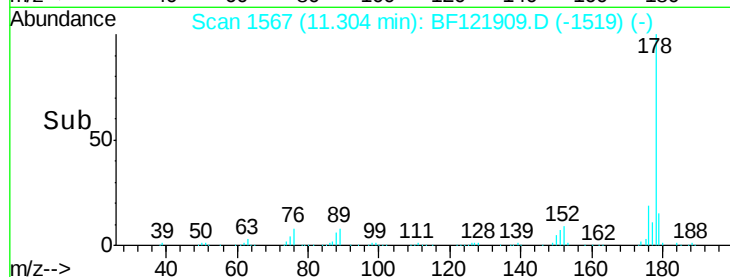
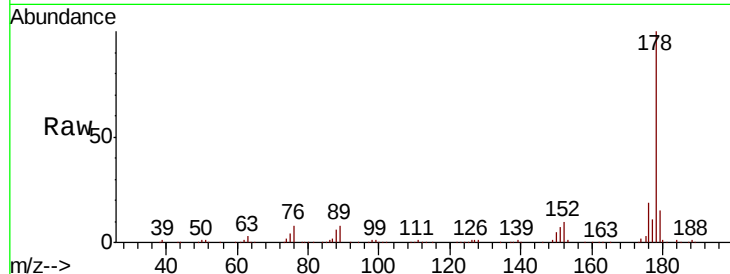
#71
Phenanthrene
Concen: 13.287 ng
RT: 11.30 min Scan# 1567
Delta R.T. -0.02 min
Lab File: BF121909.D
Acq: 9 Oct 2020 16:42

Instrument :
BNA_F
ClientSampleId :
OWLS-HEAD-BH-04-ADL

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.9	23.9
179	14.7	12.2	18.4

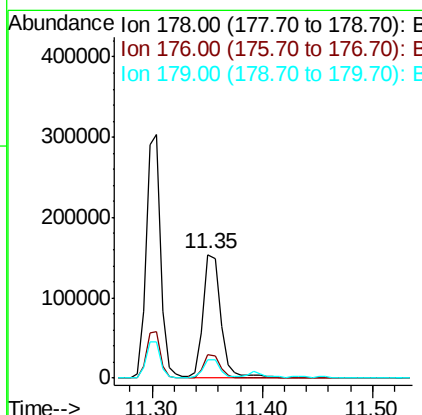
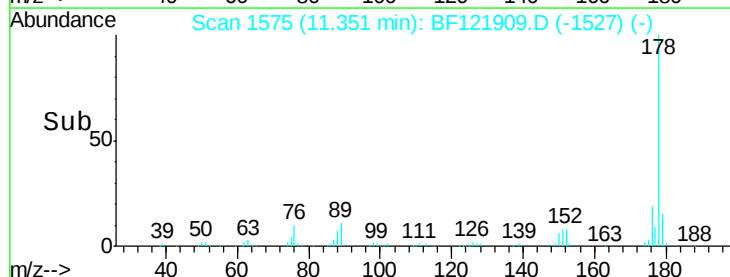
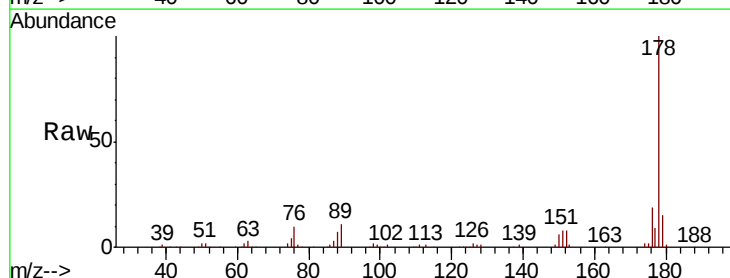
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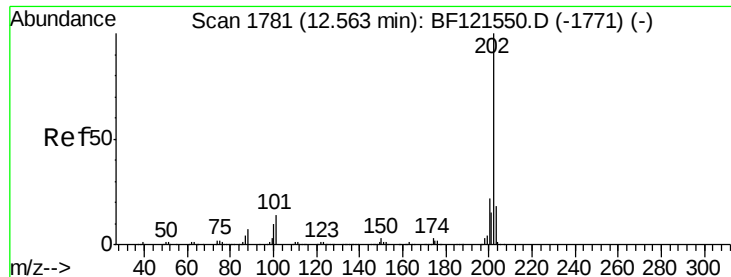
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#72
Anthracene
Concen: 7.687 ng
RT: 11.35 min Scan# 1575
Delta R.T. -0.02 min
Lab File: BF121909.D
Acq: 9 Oct 2020 16:42

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.7	23.5
179	15.4	12.7	19.1





#75

Fluoranthene

Concen: 50.392 ng

RT: 12.50 min Scan# 1770

Delta R.T. -0.01 min

Lab File: BF121909.D

Acq: 9 Oct 2020 16:42

Instrument :

BNA_F

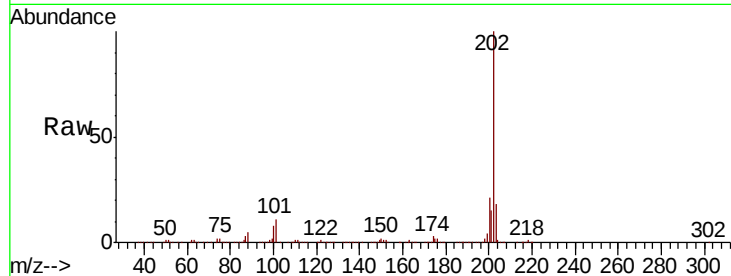
ClientSampleId :

OWLS-HEAD-BH-04-ADL

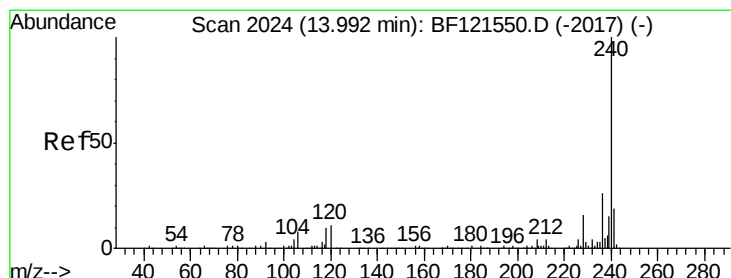
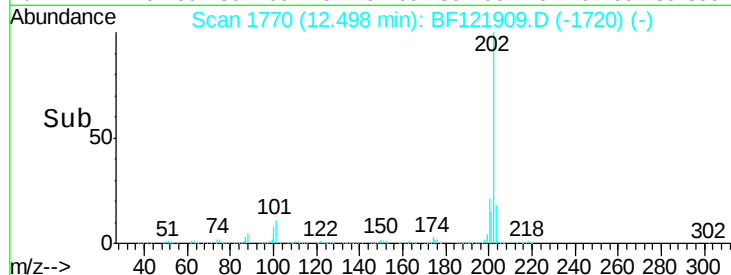
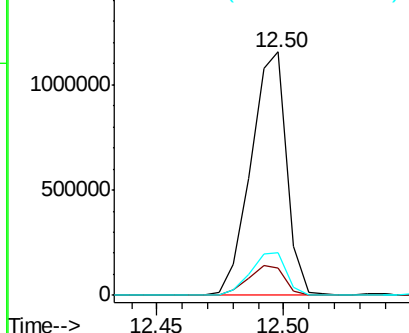
Tot Ion:	202	Resp:	1129871
Ion	Ratio	Lower	Upper
202	100		
101	11.4	0.0	33.4
203	17.6	0.0	37.9

Manual Integrations
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Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E



#76

Chrysene-d12

Concen: 20.000 ng

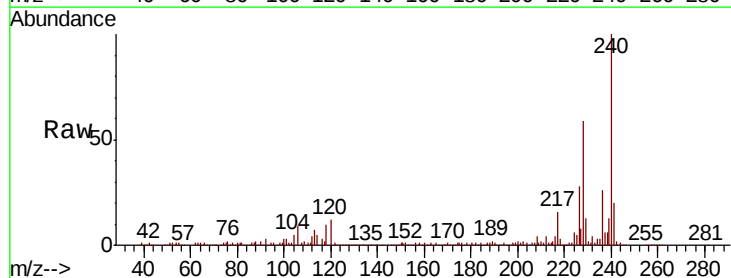
RT: 13.92 min Scan# 2012

Delta R.T. -0.01 min

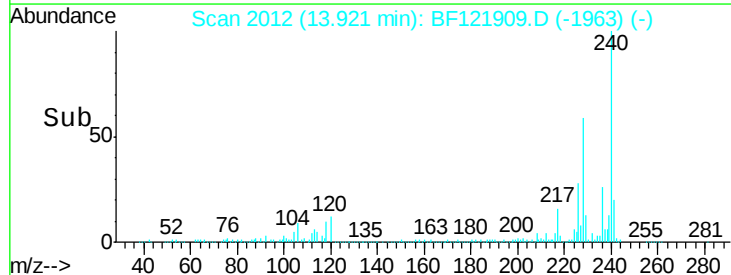
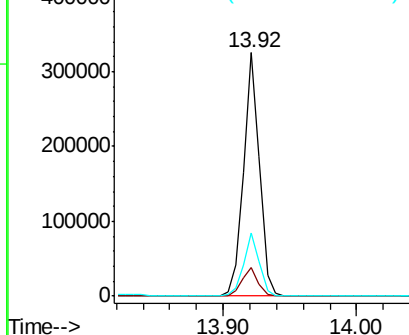
Lab File: BF121909.D

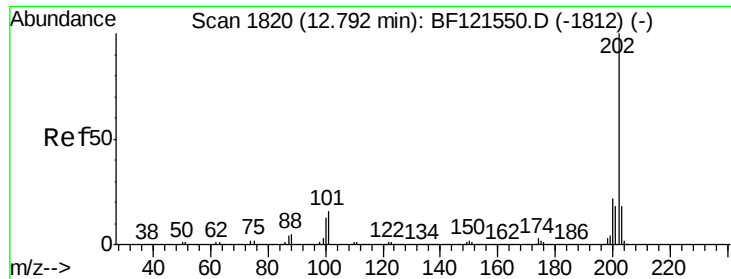
Acq: 9 Oct 2020 16:42

Tgt Ion:	240	Resp:	270810
Ion	Ratio	Lower	Upper
240	100		
120	11.9	9.2	13.8
236	25.8	20.9	31.3



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





#78

Pvrene

Concen: 51.721 ng

RT: 12.72 min Scan# 1808

Delta R.T. -0.01 min

Lab File: BF121909.D

Acq: 9 Oct 2020 16:42

Instrument :

BNA_F

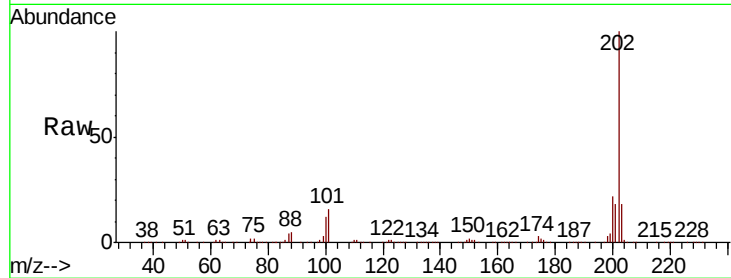
ClientSampleId :

OWLS-HEAD-BH-04-ADL

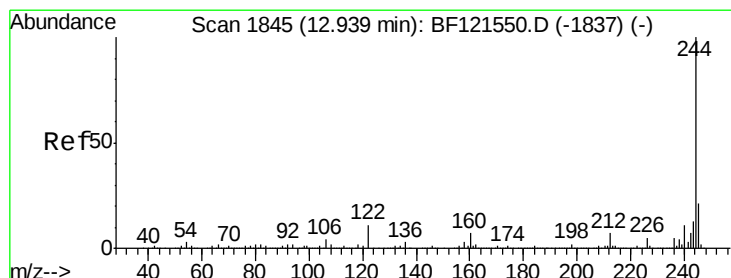
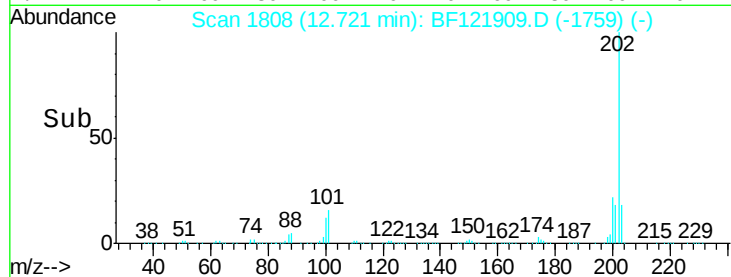
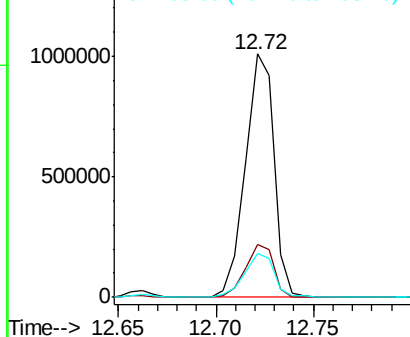
Tot Ion:	202	Resp:	1023361
Ion	Ratio	Lower	Upper
202	100		
200	21.7	17.4	26.2
203	17.9	14.6	21.8

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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



#79

Terphenyl-d14

Concen: 4.361 ng

RT: 12.86 min Scan# 1831

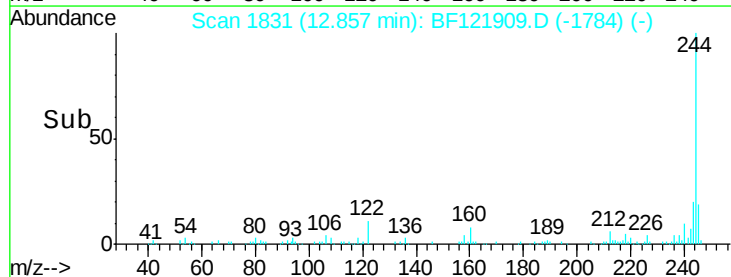
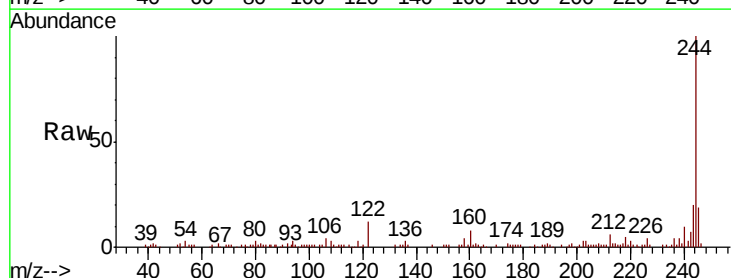
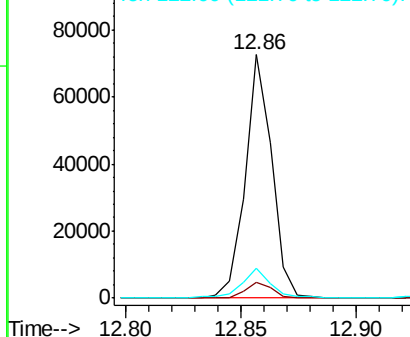
Delta R.T. -0.02 min

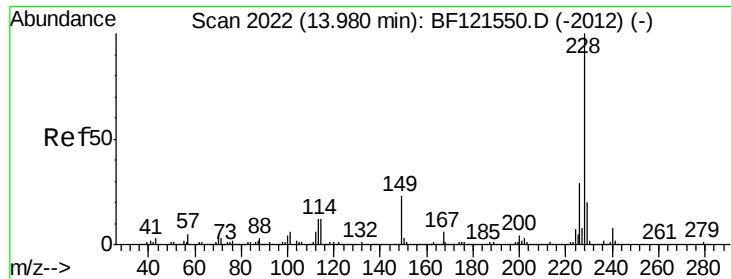
Lab File: BF121909.D

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Tgt Ion:	244	Resp:	58289
Ion	Ratio	Lower	Upper
244	100		
212	6.5	5.4	8.2
122	12.2	8.1	12.1#

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





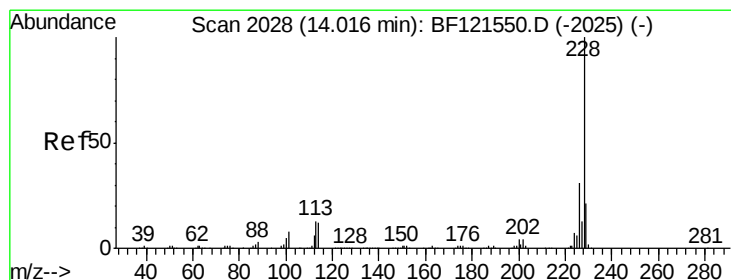
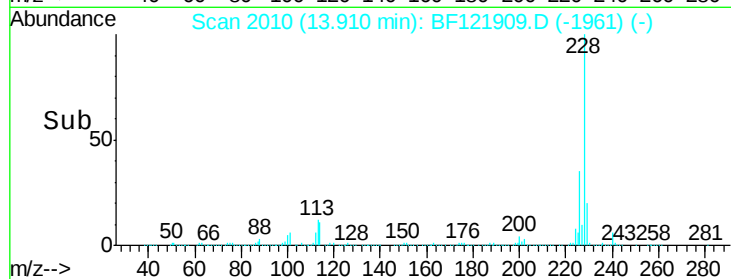
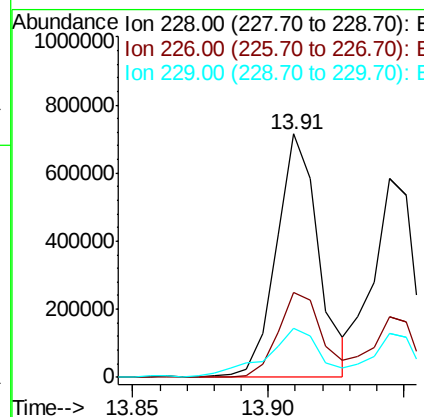
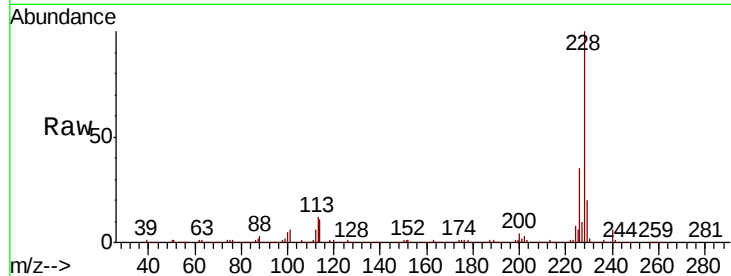
#81
Benzo(a)anthracene
Concen: 45.222 ng m
RT: 13.91 min Scan# 2010
Delta R.T. -0.01 min
Lab File: BF121909.D
Acq: 9 Oct 2020 16:42

Instrument :
BNA_F
ClientSampleId :
OWLS-HEAD-BH-04-ADL

Tot Ion	Ratio	Lower	Upper
228	100		
226	34.9	22.3	33.5#
229	20.1	16.2	24.4

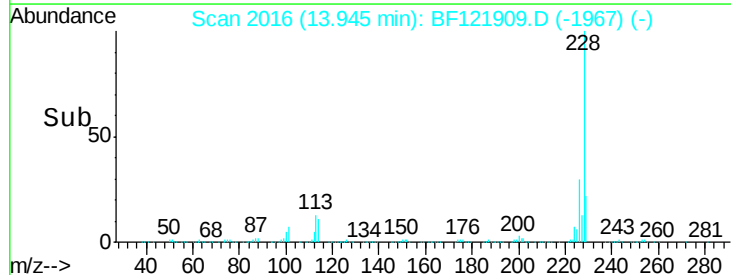
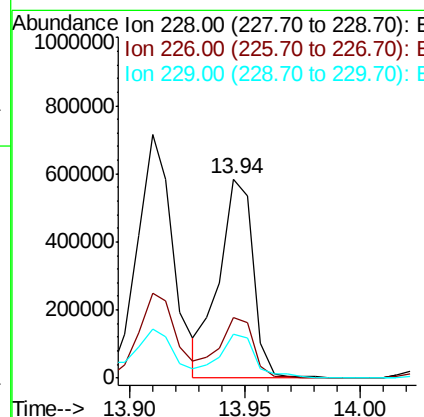
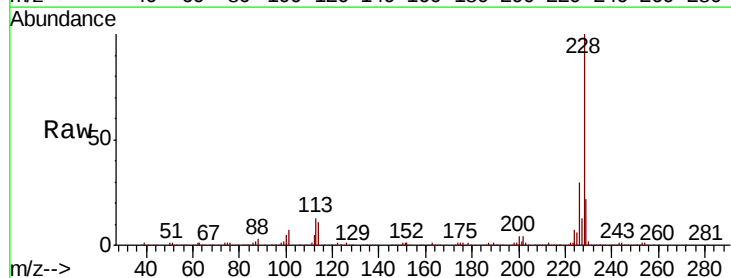
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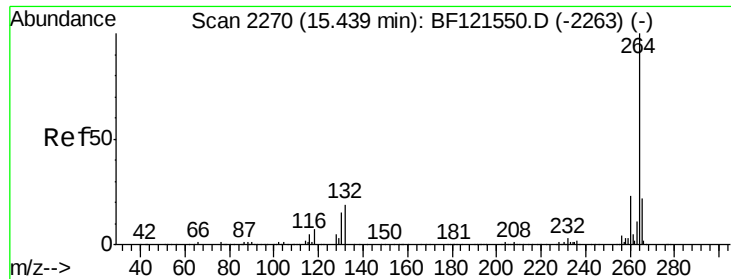
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#83
Chrysene
Concen: 34.359 ng
RT: 13.94 min Scan# 2016
Delta R.T. -0.01 min
Lab File: BF121909.D
Acq: 9 Oct 2020 16:42

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.4	24.6	37.0
229	22.1	15.9	23.9





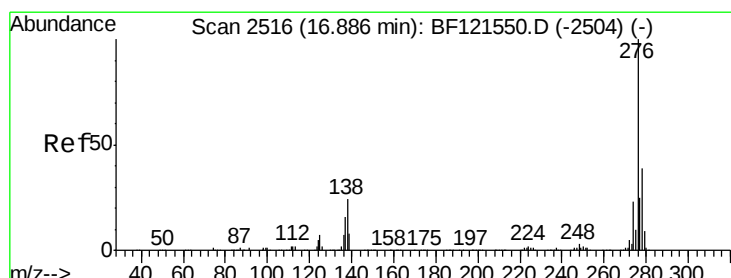
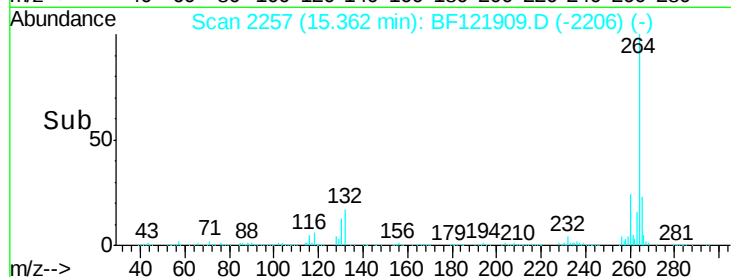
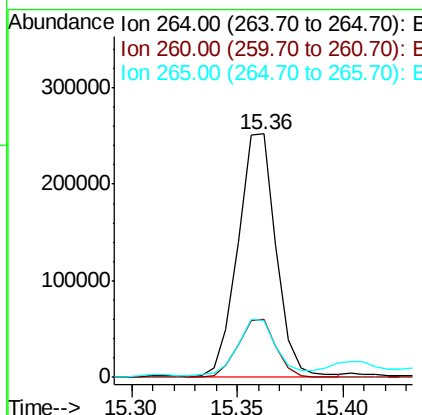
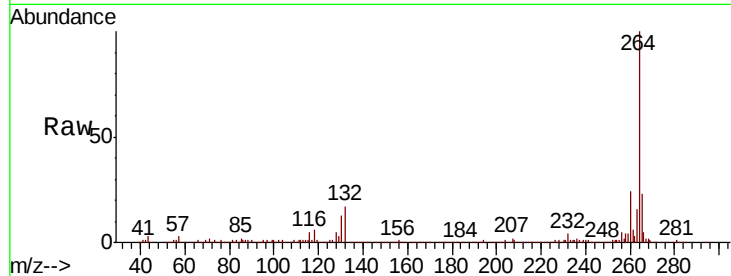
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.36 min Scan# 2257
Delta R.T. 0.00 min
Lab File: BF121909.D
Acq: 9 Oct 2020 16:42

Instrument :
BNA_F
ClientSampleId :
OWLS-HEAD-BH-04-ADL

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.1	18.7	28.1
265	23.1	17.3	25.9

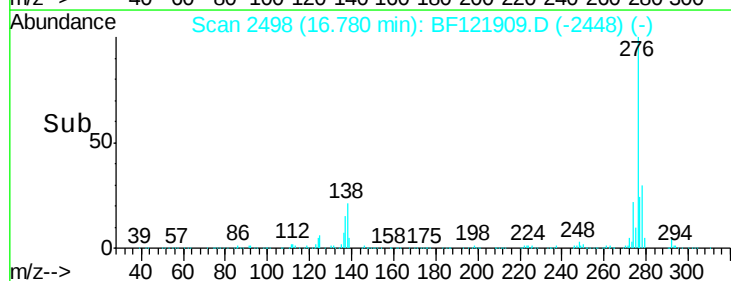
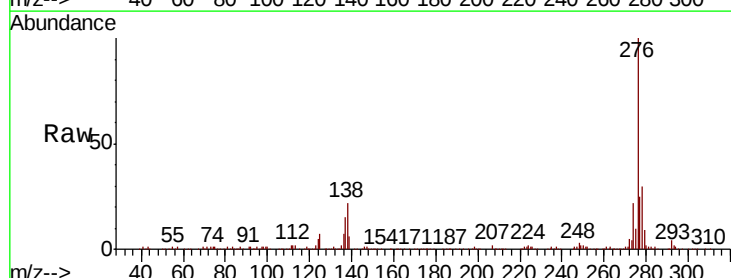
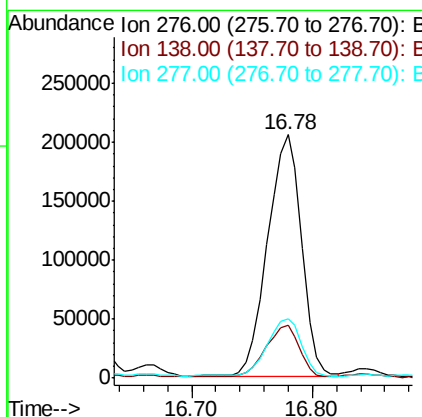
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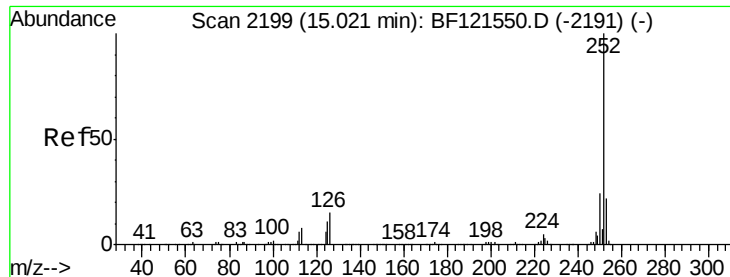
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#87
Indeno(1,2,3-cd)pyrene
Concen: 19.539 ng
RT: 16.78 min Scan# 2498
Delta R.T. -0.01 min
Lab File: BF121909.D
Acq: 9 Oct 2020 16:42

Tgt Ion	Ratio	Lower	Upper
276	100		
138	20.8	19.9	29.9
277	23.9	20.4	30.6





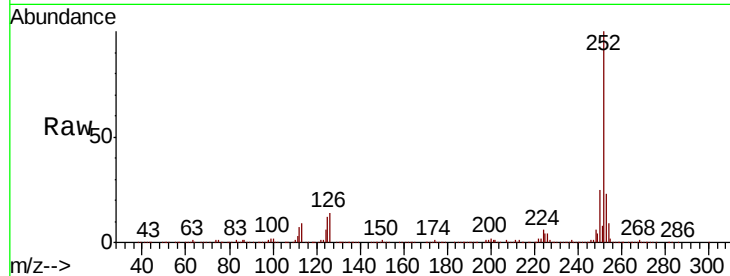
#88
Benzo(b)fluoranthene
Concen: 44.638 ng m
RT: 14.95 min Scan# 2187
Delta R.T. -0.01 min
Lab File: BF121909.D
Acq: 9 Oct 2020 16:42

Instrument :
BNA_F
ClientSampleId :
OWLS-HEAD-BH-04-ADL

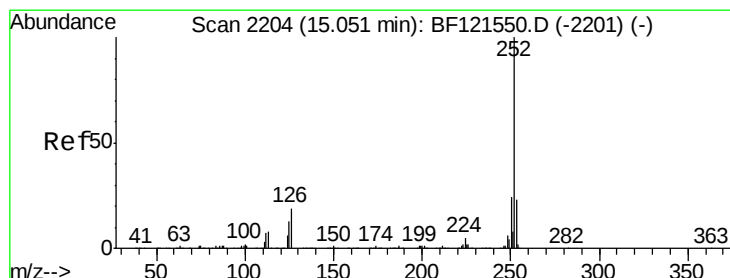
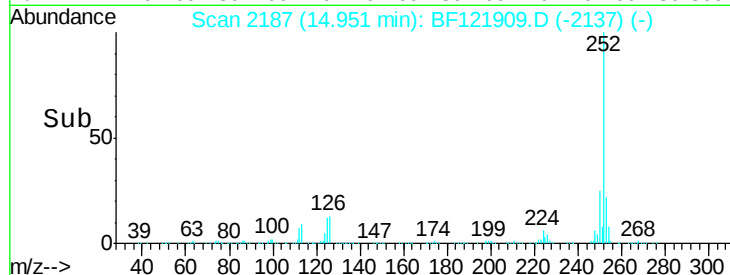
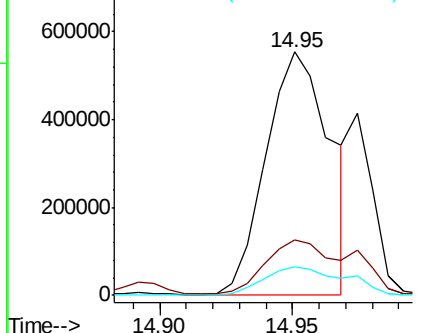
Tot Ion	Ratio	Lower	Upper
252	100		
253	22.8	18.2	27.2
125	11.9	8.0	12.0

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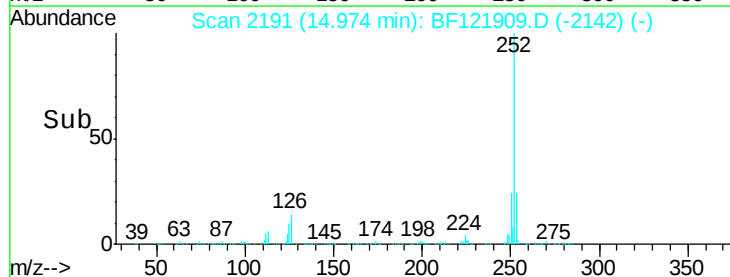
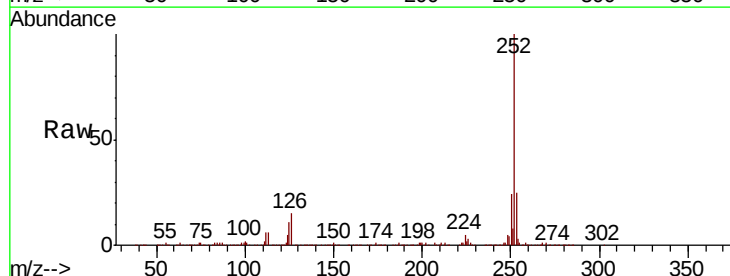
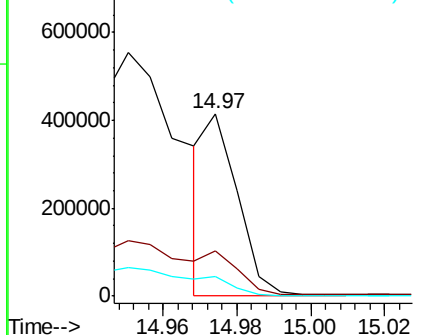
Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

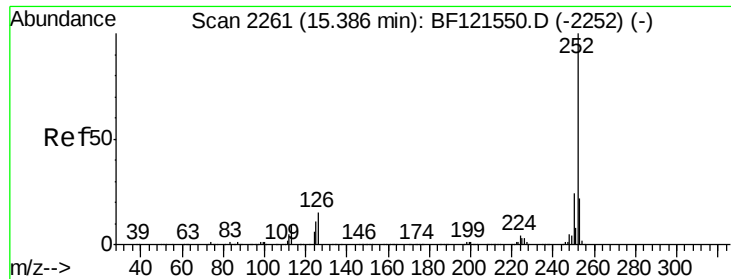


#89
Benzo(k)fluoranthene
Concen: 13.241 ng m
RT: 14.97 min Scan# 2191
Delta R.T. -0.01 min
Lab File: BF121909.D
Acq: 9 Oct 2020 16:42

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.8	17.8	26.6
125	10.5	7.7	11.5

Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E





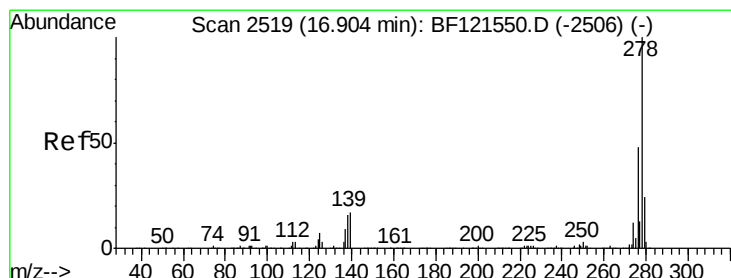
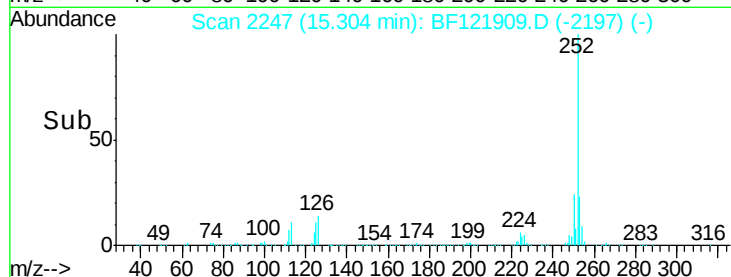
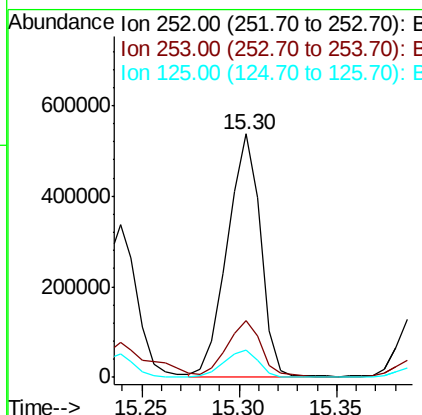
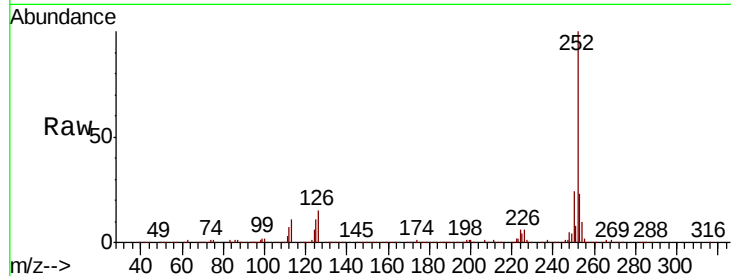
#90
Benzo(a)pyrene
Concen: 35.226 ng
RT: 15.30 min Scan# 2247
Delta R.T. -0.01 min
Lab File: BF121909.D
Acq: 9 Oct 2020 16:42

Instrument :
BNA_F
ClientSampleId :
OWLS-HEAD-BH-04-ADL

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.3	17.3	25.9
125	11.3	8.6	13.0

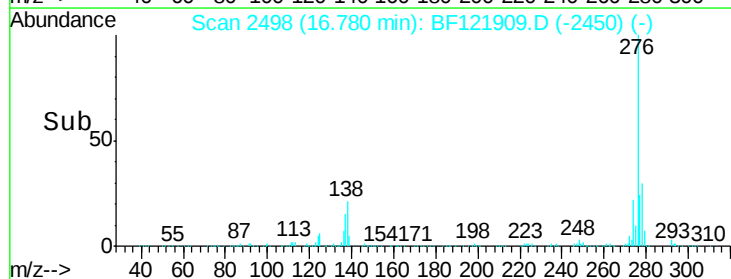
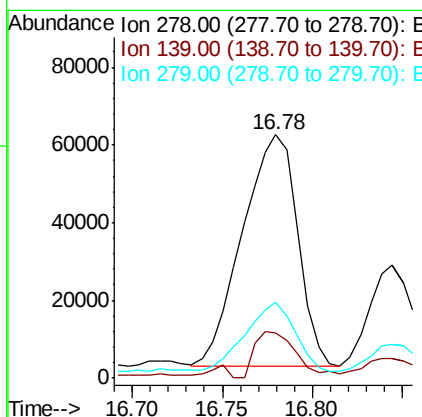
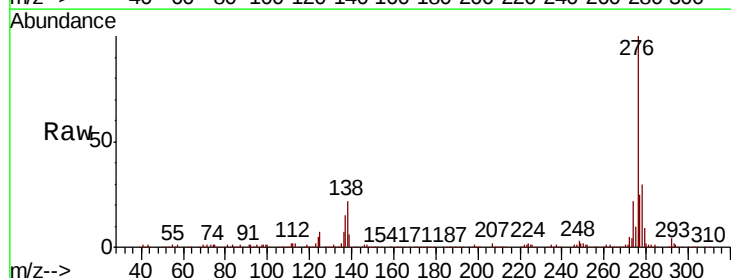
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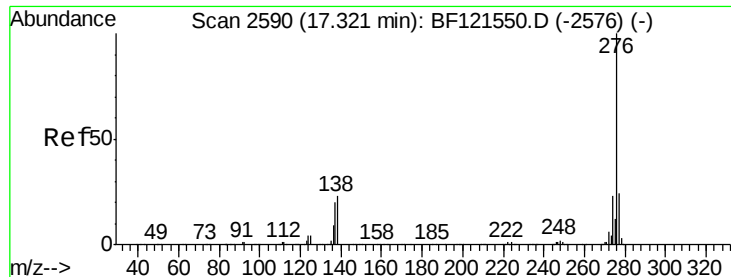
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#91
Dibenzo(a,h)anthracene
Concen: 7.449 ng m
RT: 16.78 min Scan# 2498
Delta R.T. -0.02 min
Lab File: BF121909.D
Acq: 9 Oct 2020 16:42

Tgt Ion	Ratio	Lower	Upper
278	100		
139	18.8	13.0	19.4
279	31.1	19.0	28.4#





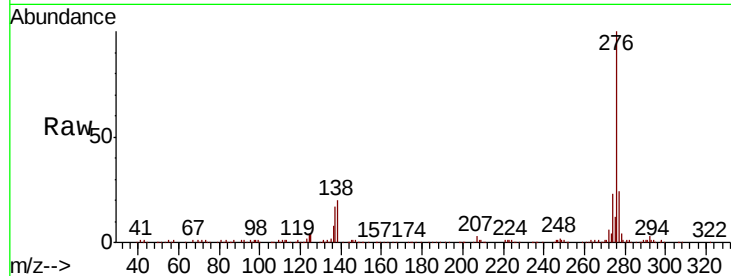
#92
 Benzo(a,h,i)perylene
 Concen: 19.710 ng
 RT: 17.21 min Scan# 2571
 Delta R.T. 0.00 min
 Lab File: BF121909.D
 Acq: 9 Oct 2020 16:42

Instrument :
 BNA_F
 ClientSampleId :
 OWLS-HEAD-BH-04-ADL

Tot Ion	Ratio	Lower	Upper
276	100		
277	24.0	19.4	29.2
138	20.4	17.8	26.6

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Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

