

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF022120\
 Data File : BF118991.D
 Acq On : 21 Feb 2020 14:25
 Operator : CG/JU
 Sample : L1468-05 10X
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP9-EP1-2.5

Manual Integrations
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Quant Time: Feb 21 15:08:29 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022020.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Feb 20 17:40:17 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.75	152	177505	20.00	ng	-0.01
21) Naphthalene-d8	8.04	136	638847	20.00	ng	0.00
39) Acenaphthene-d10	9.79	164	332644	20.00	ng	0.00
64) Phenanthrene-d10	11.27	188	506369	20.00	ng	0.00
76) Chrysene-d12	13.91	240	345023	20.00	ng	0.00
87) Perylene-d12	15.33	264	450830	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.37	112	94740	8.92	ng	0.00
7) Phenol-d6	6.39	99	119480	9.25	ng	-0.01
23) Nitrobenzene-d5	7.31	82	71876	5.94	ng	-0.02
42) 2,4,6-Tribromophenol	10.57	330	27907	6.41	ng	0.00
45) 2-Fluorobiphenyl	9.10	172	159560	7.07	ng	-0.02
79) Terphenyl-d14	12.85	244	135420	6.76	ng	-0.01
Target Compounds						Qvalue
27) 2,4-Dimethylphenol	7.70	122	20503	2.383	ng	98
31) Naphthalene	8.07	128	6438199	194.321	ng	94
37) 2-Methylnaphthalene	8.75	142	1458277	65.404	ng	98
38) 1-Methylnaphthalene	8.85	142	874757	41.717	ng	100
46) 1,1'-Biphenyl	9.21	154	423853	15.766	ng	99
49) Acenaphthylene	9.65	152	595076	19.018	ng	98
52) Acenaphthene	9.82	154	761332	40.351	ng	100
55) Dibenzofuran	9.99	168	1200430	42.626	ng	98
58) Fluorene	10.34	166	1461744	66.797	ng	100
71) Phenanthrene	11.31	178	4607146	166.836	ng	95
72) Anthracene	11.36	178	1812150	65.677	ng	99
73) Carbazole	11.50	167	733562	29.843	ng	99
75) Fluoranthene	12.49	202	3256187	111.086	ng	98
78) Pyrene	12.72	202	2808144	101.359	ng	97
81) Benzo(a)anthracene	13.90	228	1544214m	65.687	ng	
83) Chrysene	13.94	228	1308517	55.861	ng	97
86) Indeno(1,2,3-cd)pyrene	16.74	276	881204	38.852	ng	# 94
88) Benzo(b)fluoranthene	14.93	252	1554797m	52.321	ng	
89) Benzo(k)fluoranthene	14.96	252	641132m	23.281	ng	
90) Benzo(a)pyrene	15.29	252	1413441	52.702	ng	98
91) Dibenzo(a,h)anthracene	16.74	278	236447m	10.020	ng	
92) Benzo(g,h,i)perylene	17.17	276	846191	36.292	ng	98

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

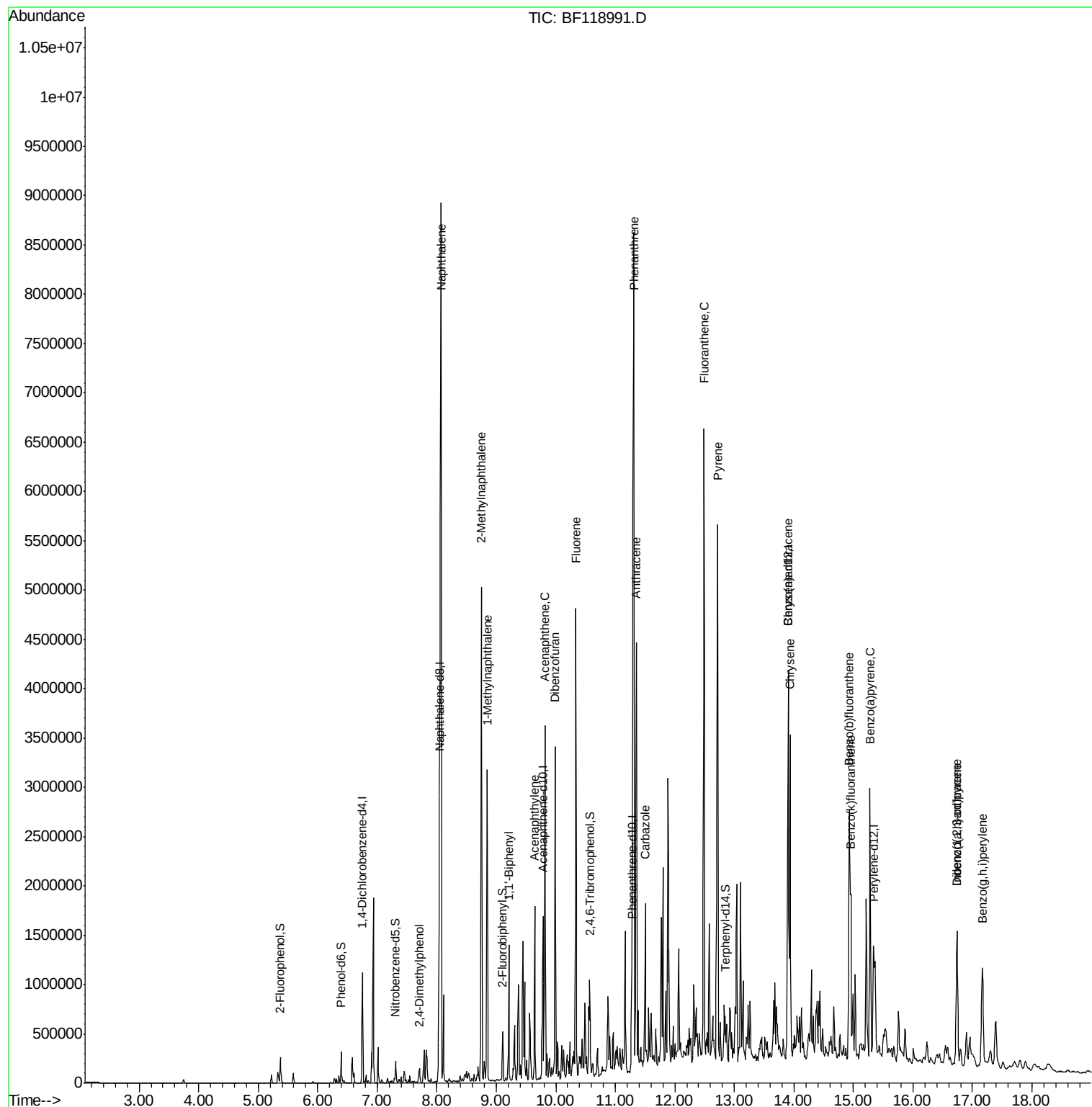
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF022120\
Data File : BF118991.D
Acq On : 21 Feb 2020 14:25
Operator : CG/JU
Sample : L1468-05 10X
Misc :
ALS Vial : 3 Sample Multiplier: 1

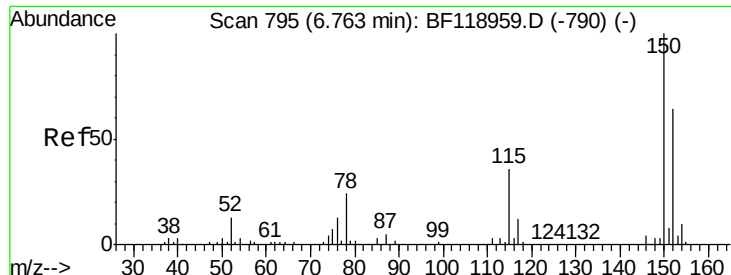
Instrument :
BNA_F
ClientSampleId :
TP9-EP1-2.5

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Quant Time: Feb 21 15:08:29 2020
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

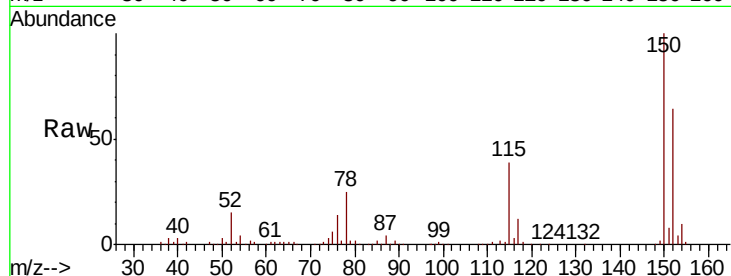
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.75 min Scan# 793
Delta R.T. -0.01 min
Lab File: BF118991.D
Acq: 21 Feb 2020 14:25

Instrument :
BNA_F
ClientSampleId :
TP9-EP1-2.5

Tot Ion	Ratio	Lower	Upper
152	100		
150	156.5	124.3	186.5
115	60.6	44.6	67.0

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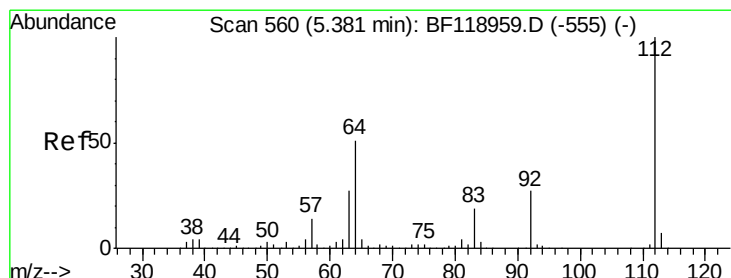
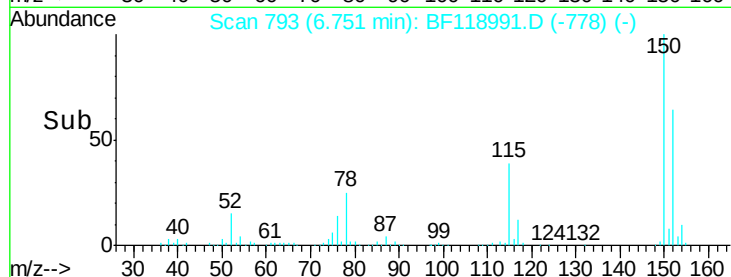
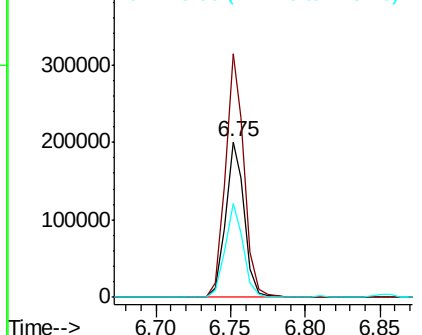


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

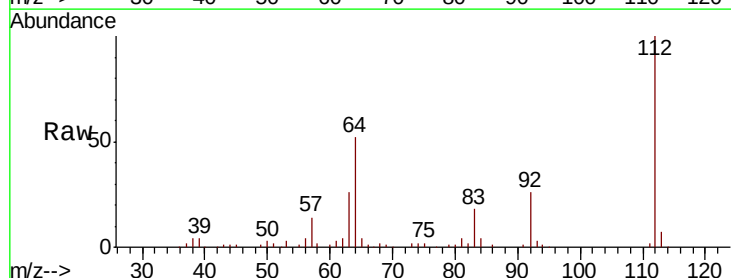
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 8.920 ng
RT: 5.37 min Scan# 559
Delta R.T. -0.01 min
Lab File: BF118991.D
Acq: 21 Feb 2020 14:25

Tgt Ion	Ratio	Lower	Upper
112	100		
64	51.8	40.4	60.6
63	26.1	21.3	31.9

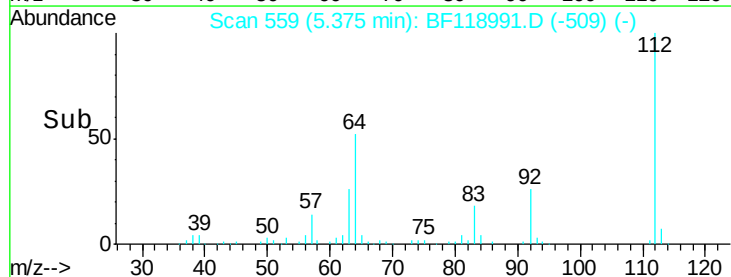
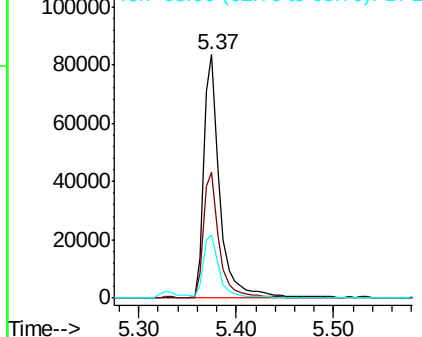


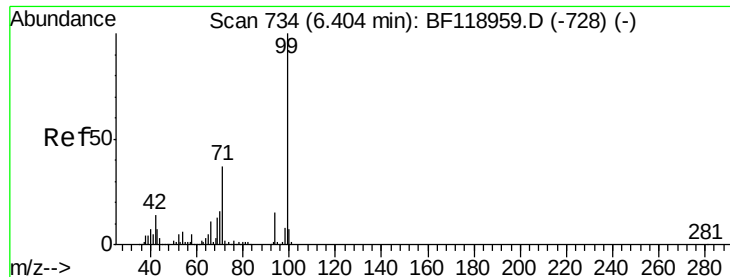
Abundance

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: 9.249 ng

RT: 6.39 min Scan# 732

Delta R.T. -0.01 min

Lab File: BF118991.D

Acq: 21 Feb 2020 14:25

Instrument :

BNA_F

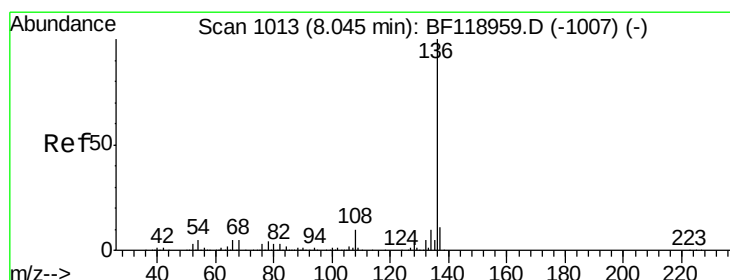
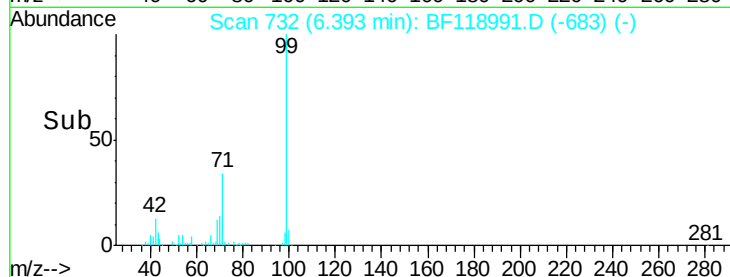
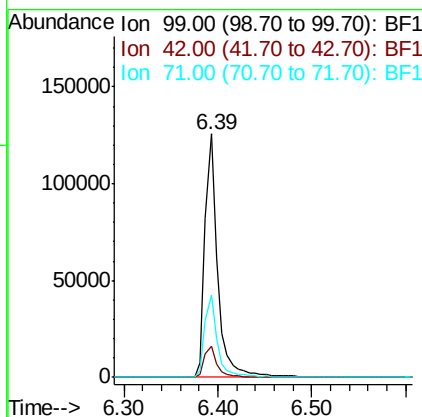
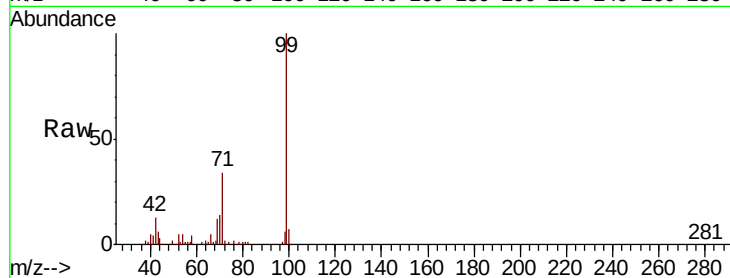
ClientSampleId :

TP9-EP1-2.5

Tot Ion:	99	Resp:	119480
Ion	Ratio	Lower	Upper
99	100		
42	12.6	11.4	17.0
71	33.6	29.8	44.6

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#21

Naphthalene-d8

Concen: 20.000 ng

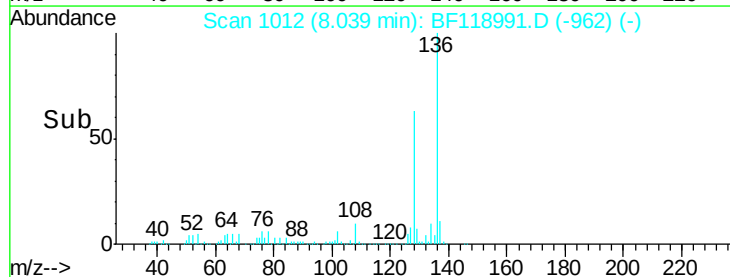
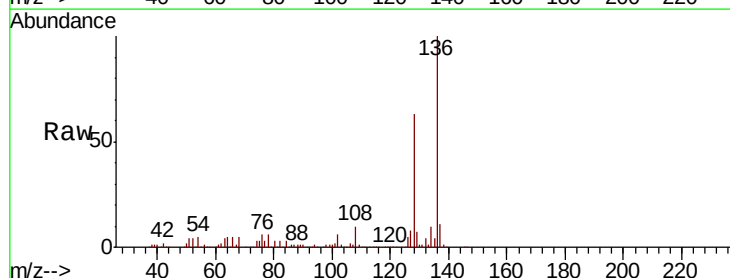
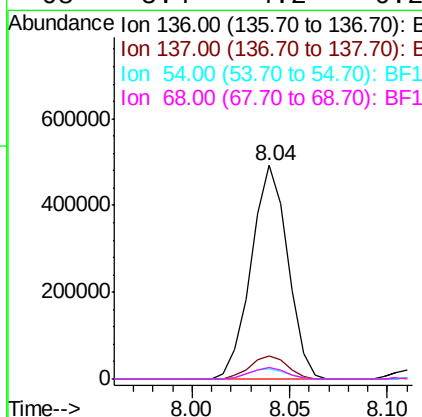
RT: 8.04 min Scan# 1012

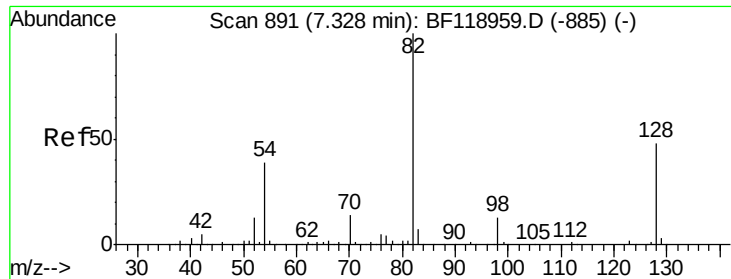
Delta R.T. -0.01 min

Lab File: BF118991.D

Acq: 21 Feb 2020 14:25

Tgt Ion:	136	Resp:	638847
Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.9	13.3
54	4.9	3.8	5.6
68	5.4	4.2	6.2





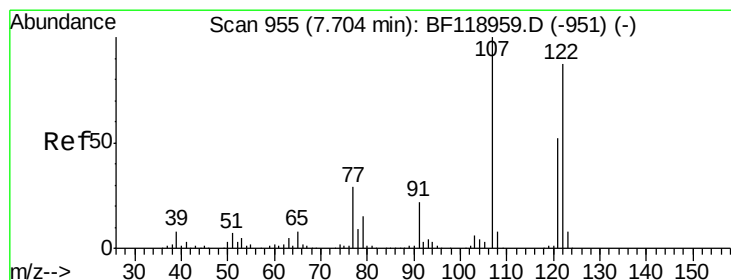
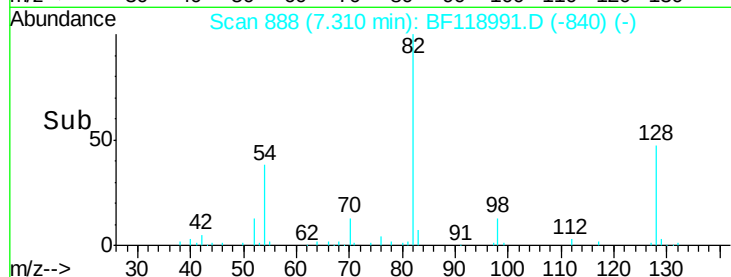
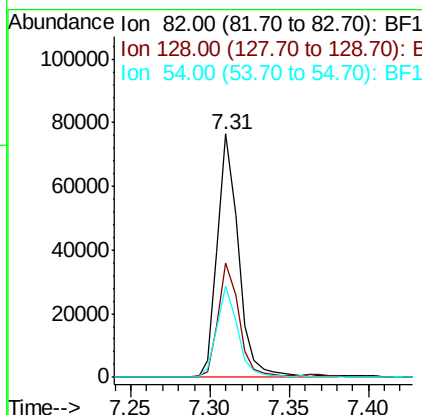
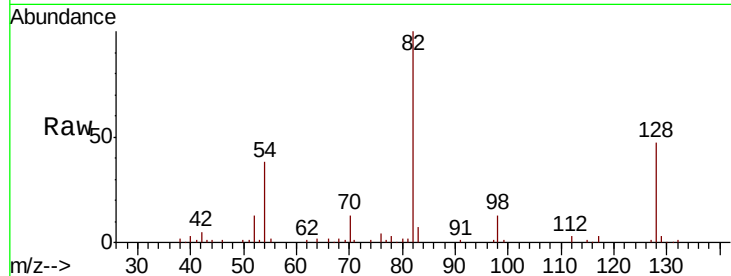
#23
 Nitrobenzene-d5
 Concen: 5.940 ng
 RT: 7.31 min Scan# 888
 Delta R.T. -0.02 min
 Lab File: BF118991.D
 Acq: 21 Feb 2020 14:25

Instrument :
 BNA_F
 ClientSampleId :
 TP9-EP1-2.5

Tot Ion	Ratio	Lower	Upper
82	100		
128	46.9	38.2	57.2
54	37.6	31.3	46.9

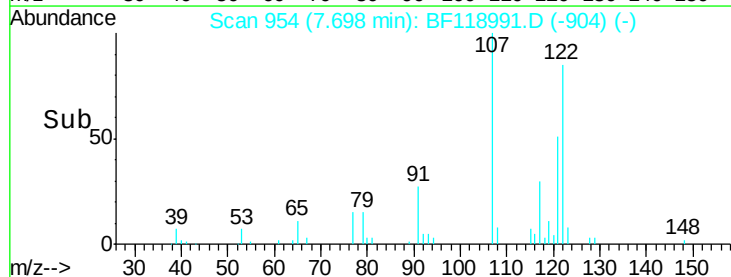
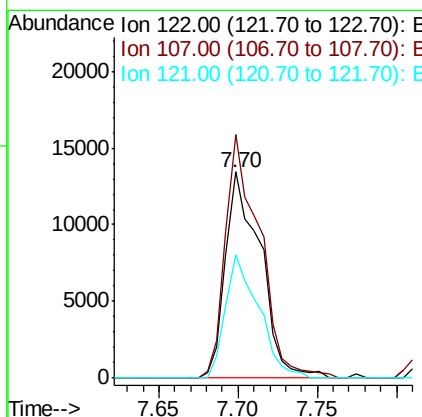
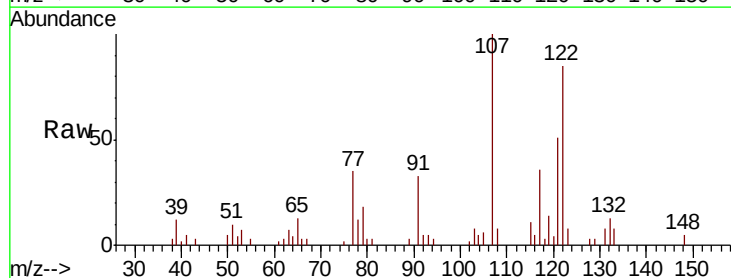
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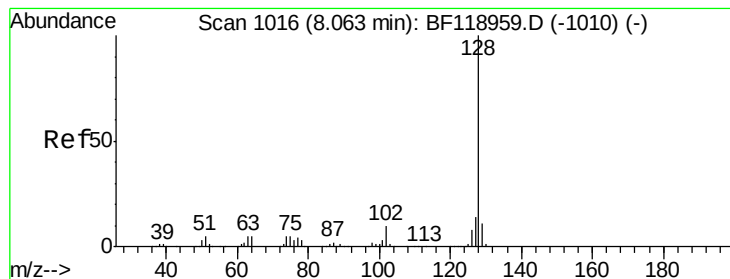
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#27
 2,4-Dimethylphenol
 Concen: 2.383 ng
 RT: 7.70 min Scan# 954
 Delta R.T. -0.01 min
 Lab File: BF118991.D
 Acq: 21 Feb 2020 14:25

Tgt Ion	Ratio	Lower	Upper
122	100		
107	118.0	91.8	137.8
121	59.8	47.4	71.0





#31

Naphthalene

Concen: 194.321 ng

RT: 8.07 min Scan# 1018

Delta R.T. 0.01 min

Lab File: BF118991.D

Acq: 21 Feb 2020 14:25

Instrument :

BNA_F

ClientSampleId :

TP9-EP1-2.5

Tot Ion:128 Resp: 6438199

Ion Ratio Lower Upper

128 100

129 13.2 9.0 13.4

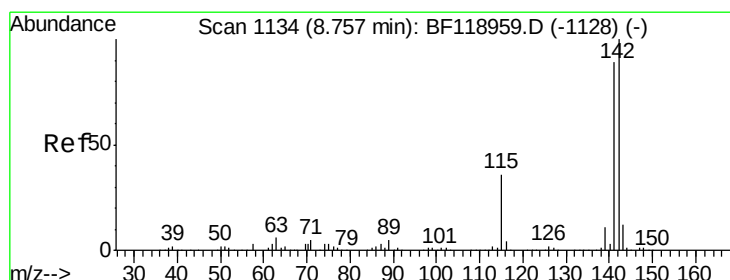
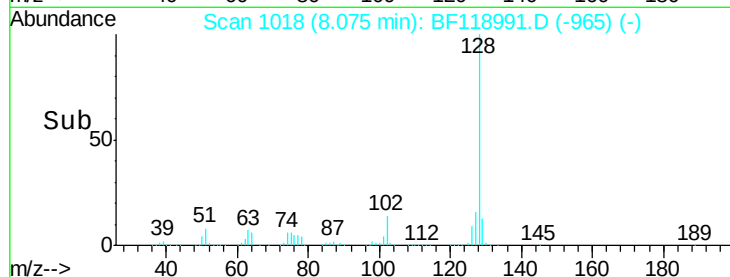
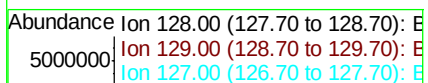
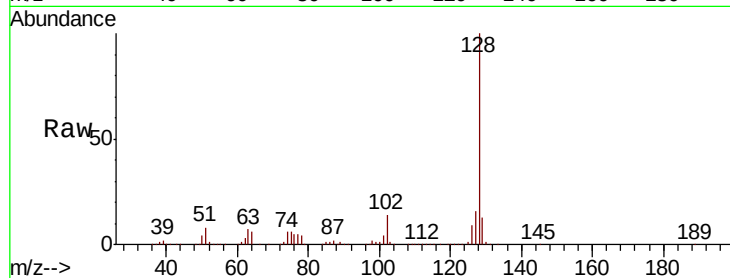
127 16.3 10.9 16.3

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#37

2-Methylnaphthalene

Concen: 65.404 ng

RT: 8.75 min Scan# 1133

Delta R.T. -0.01 min

Lab File: BF118991.D

Acq: 21 Feb 2020 14:25

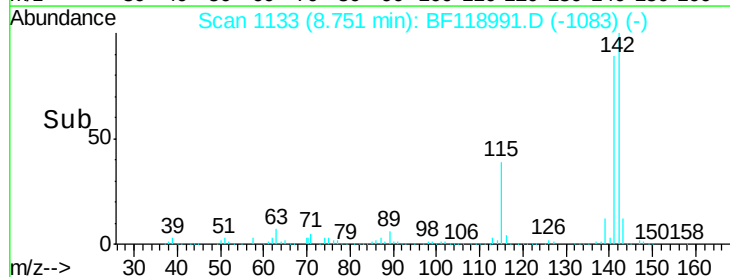
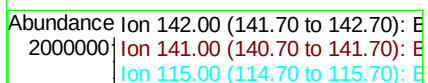
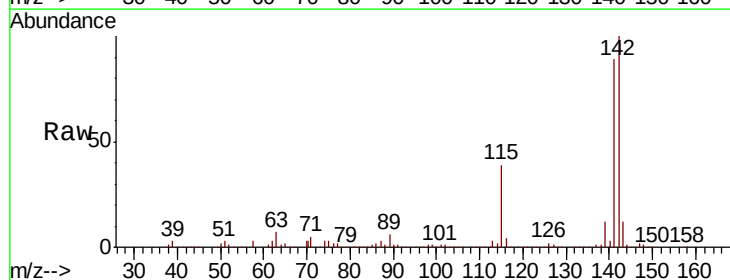
Tgt Ion:142 Resp: 1458277

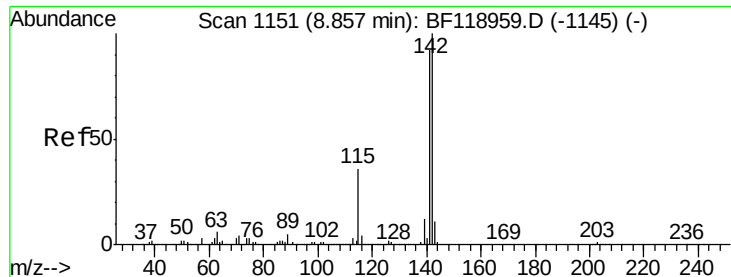
Ion Ratio Lower Upper

142 100

141 88.9 71.0 106.4

115 38.7 28.6 42.8





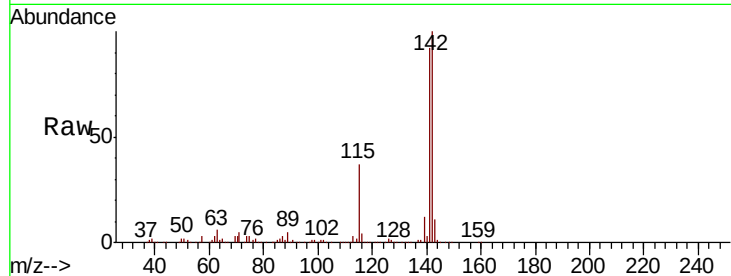
#38
1-Methylnaphthalene
Concen: 41.717 ng
RT: 8.85 min Scan# 1150
Delta R.T. -0.01 min
Lab File: BF118991.D
Acq: 21 Feb 2020 14:25

Instrument :
BNA_F
ClientSampleId :
TP9-EP1-2.5

Tot Ion	Ratio	Lower	Upper
142	100		
141	92.5	73.7	110.5
116	3.8	3.0	4.6

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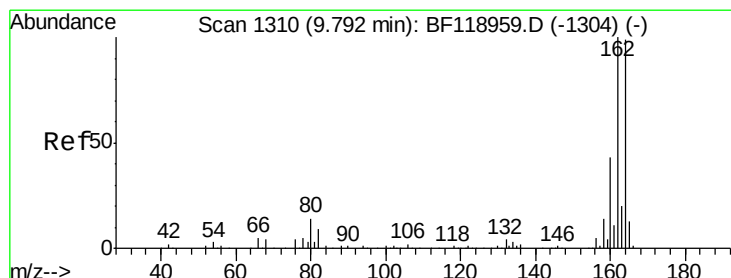
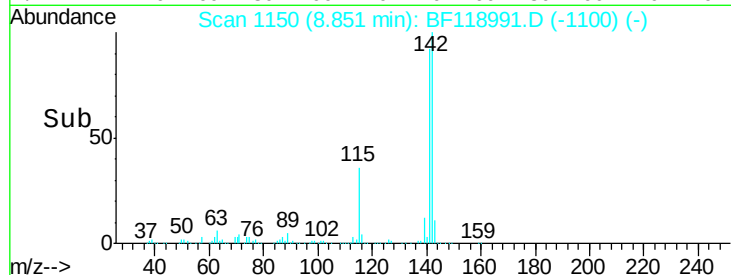
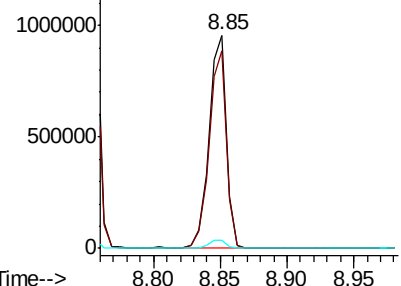


Abundance

Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 116.00 (115.70 to 116.70): E



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.79 min Scan# 1309
Delta R.T. -0.01 min
Lab File: BF118991.D
Acq: 21 Feb 2020 14:25

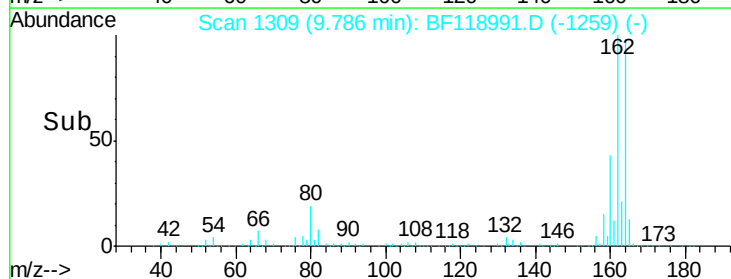
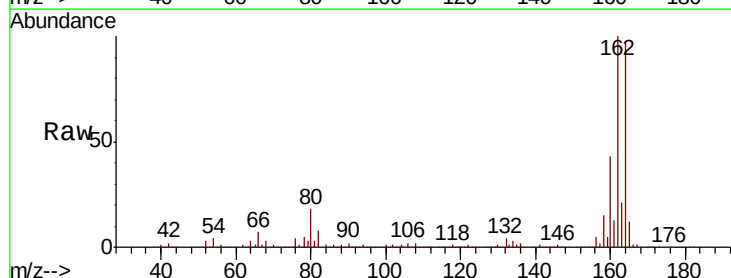
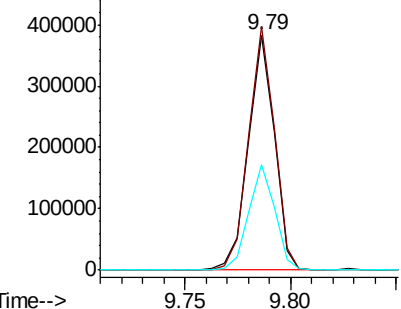
Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.6	81.2	121.8
160	44.6	35.2	52.8

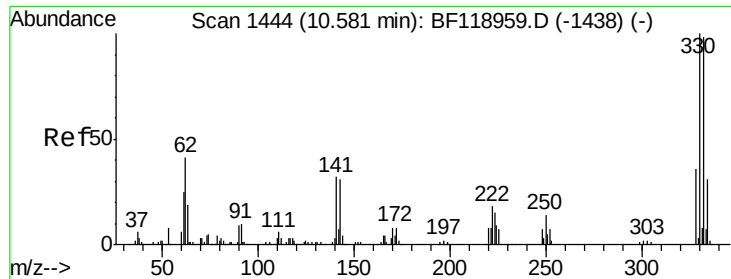
Abundance

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





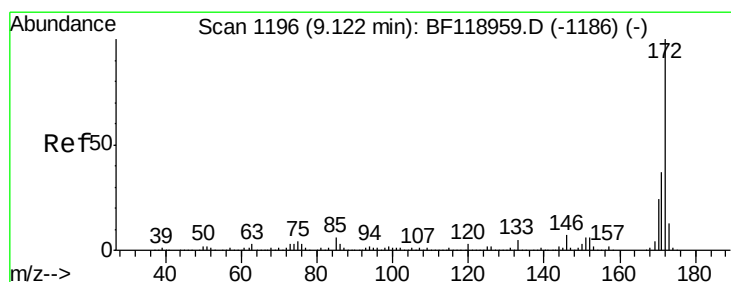
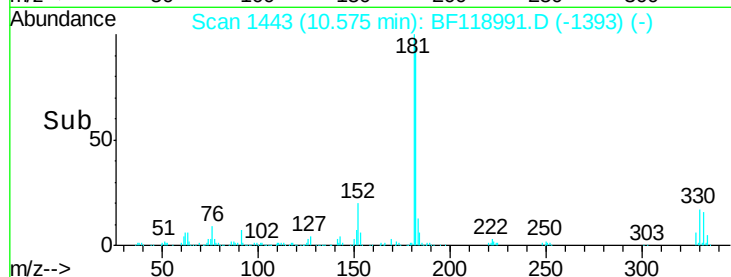
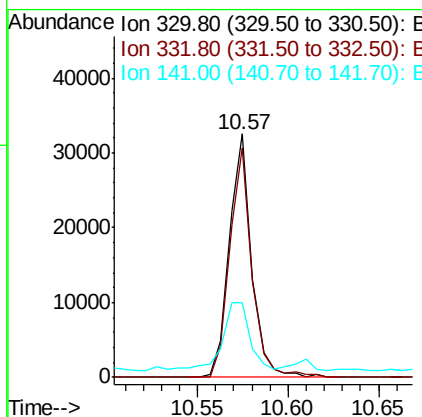
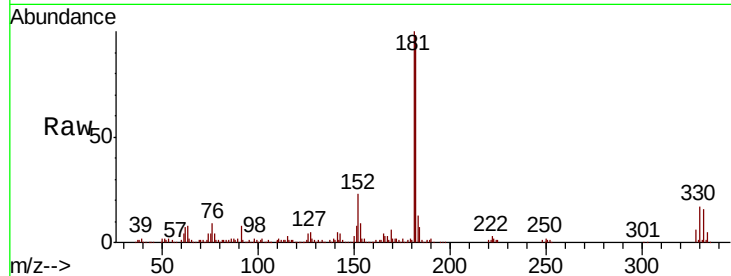
#42
 2,4,6-Tribromophenol
 Concen: 6.413 ng
 RT: 10.57 min Scan# 1443
 Delta R.T. -0.01 min
 Lab File: BF118991.D
 Acq: 21 Feb 2020 14:25

Instrument :
 BNA_F
 ClientSampleId :
 TP9-EP1-2.5

Tot Ion	Ratio	Resp	Lower	Upper
330	100	27907		
332	93.9		77.1	115.7
141	33.7		23.0	34.6

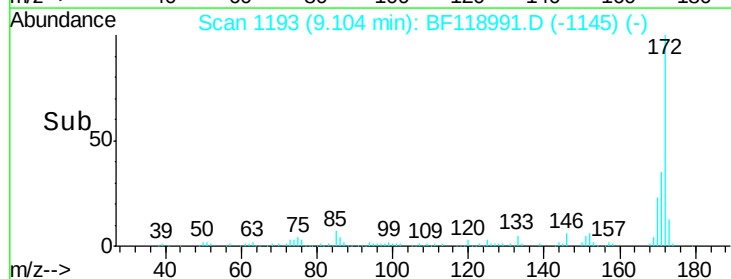
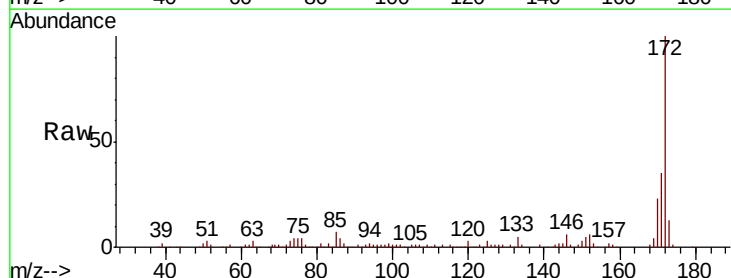
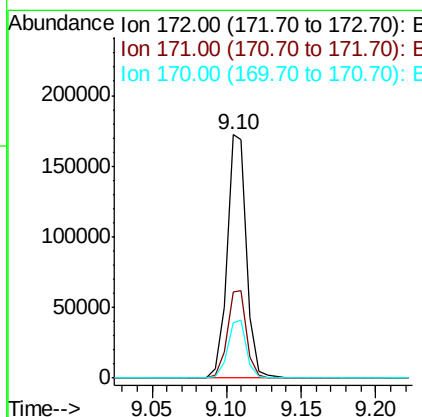
Manual Integrations
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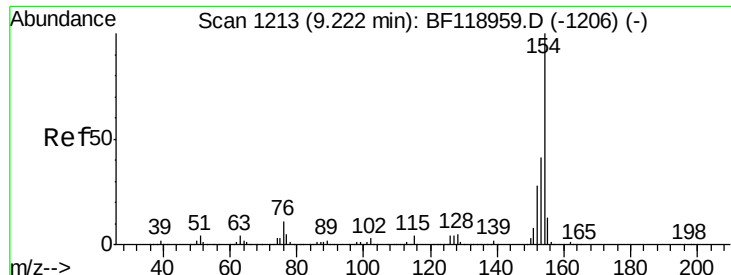
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#45
 2-Fluorobiphenyl
 Concen: 7.066 ng
 RT: 9.10 min Scan# 1193
 Delta R.T. -0.02 min
 Lab File: BF118991.D
 Acq: 21 Feb 2020 14:25

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	159560		
171	35.5		29.4	44.2
170	22.9		19.6	29.4





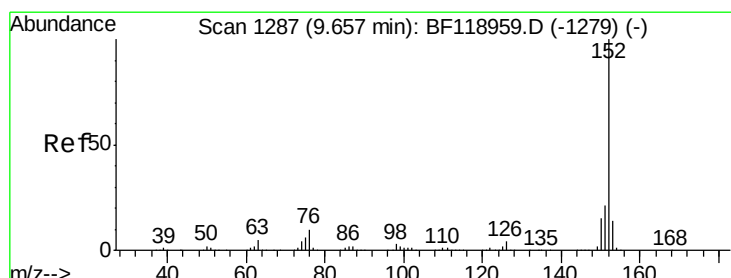
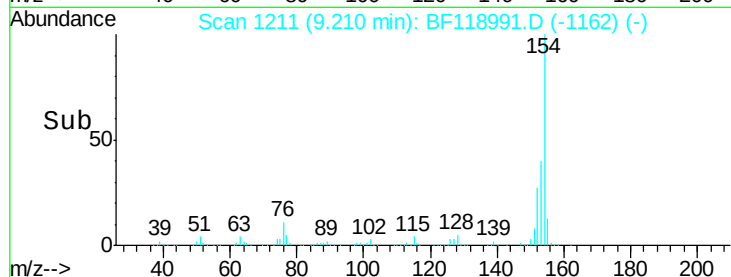
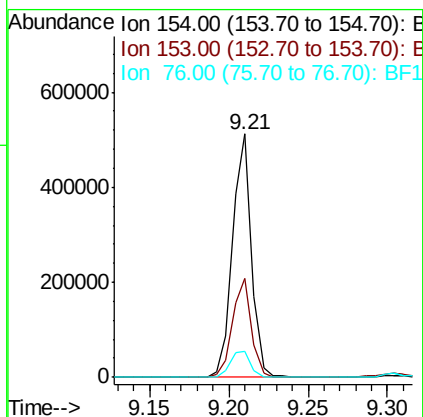
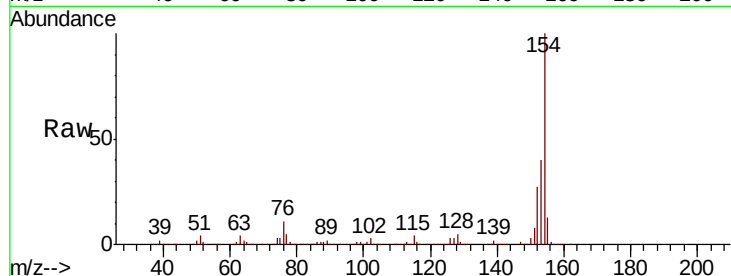
#46
1,1'-Biphenyl
Concen: 15.766 ng
RT: 9.21 min Scan# 1211
Delta R.T. -0.01 min
Lab File: BF118991.D
Acq: 21 Feb 2020 14:25

Instrument :
BNA_F
ClientSampleId :
TP9-EP1-2.5

Tot Ion	Ratio	Resp	Lower	Upper
154	100			
153	40.4	21.2	61.2	
76	10.9	0.0	31.1	

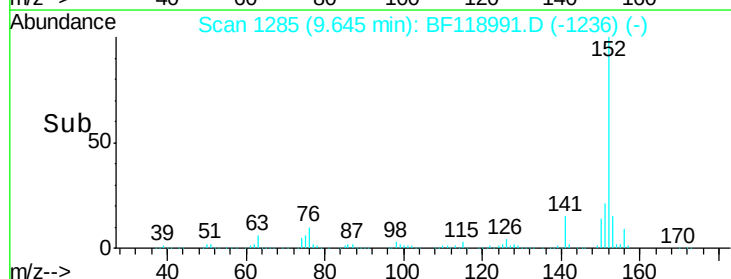
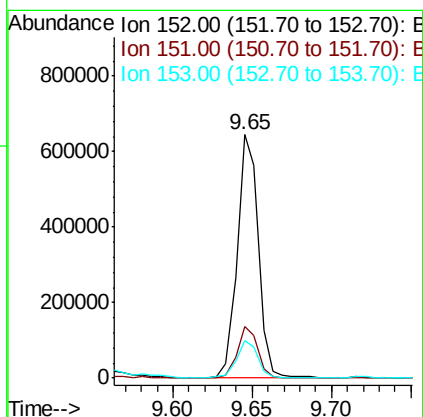
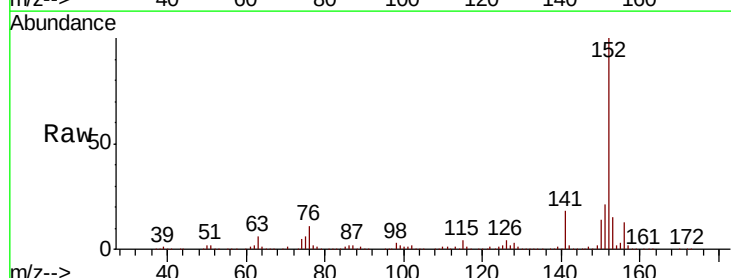
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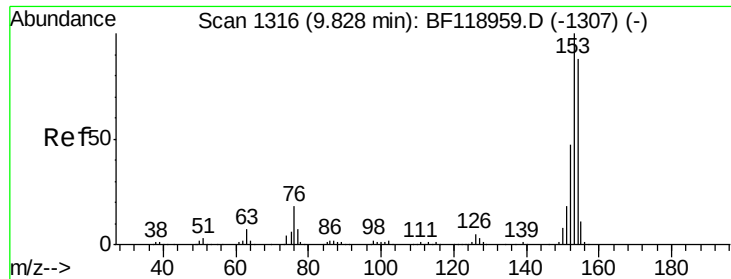
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#49
Acenaphthylene
Concen: 19.018 ng
RT: 9.65 min Scan# 1285
Delta R.T. -0.01 min
Lab File: BF118991.D
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Tgt Ion	Ratio	Resp	Lower	Upper
152	100			
151	21.0	16.7	25.1	
153	15.2	10.9	16.3	





#52

Acenaphthene

Concen: 40.351 ng

RT: 9.82 min Scan# 1315

Delta R.T. -0.01 min

Lab File: BF118991.D

Acq: 21 Feb 2020 14:25

Instrument :

BNA_F

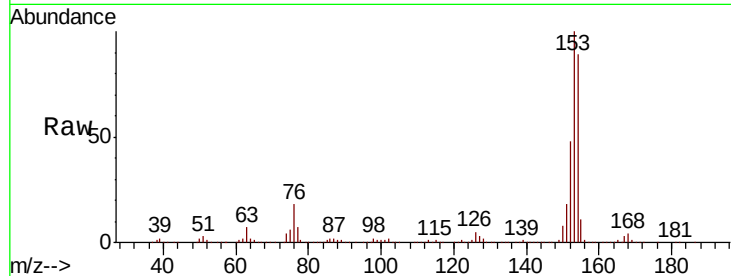
ClientSampleId :

TP9-EP1-2.5

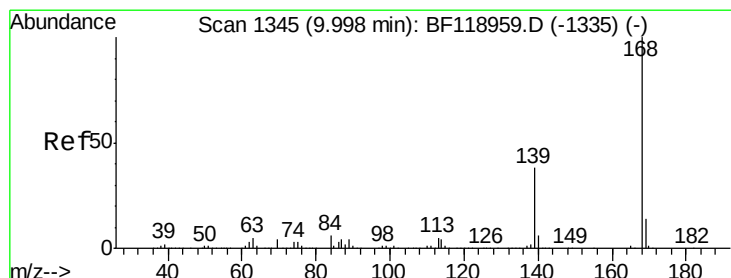
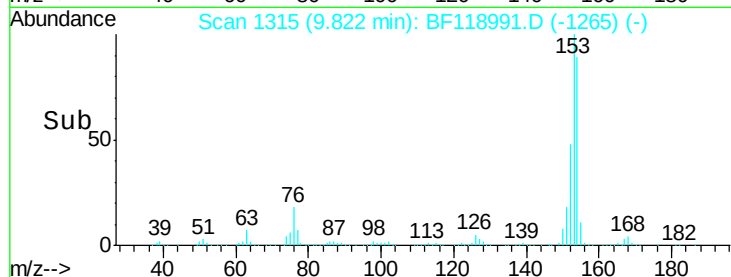
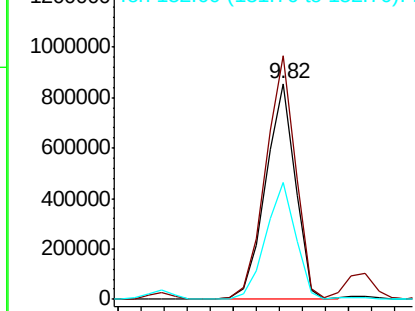
Tot Ion:	154	Resp:	761332
Ion Ratio	Lower	Upper	
154	100		
153	112.8	90.4	135.6
152	54.1	42.9	64.3

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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



#55

Dibenzofuran

Concen: 42.626 ng

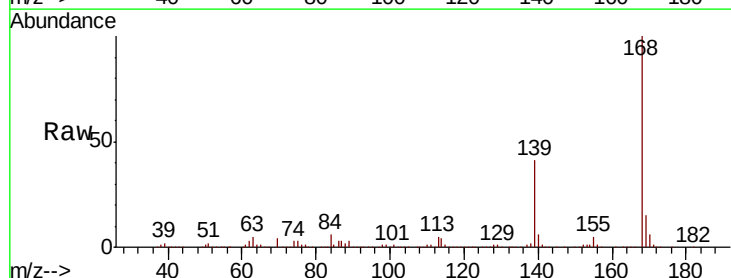
RT: 9.99 min Scan# 1344

Delta R.T. -0.01 min

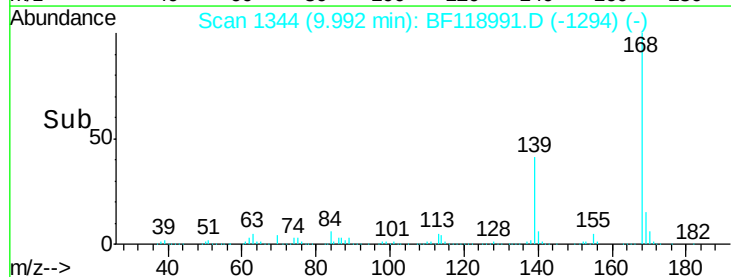
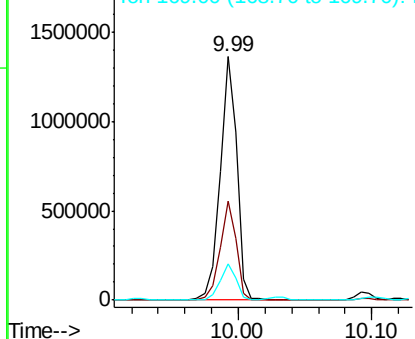
Lab File: BF118991.D

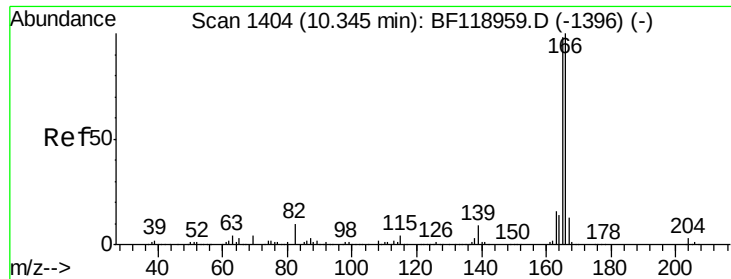
Acq: 21 Feb 2020 14:25

Tgt Ion:	168	Resp:	1200430
Ion Ratio	Lower	Upper	
168	100		
139	40.7	31.7	47.5
169	14.7	11.0	16.4



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





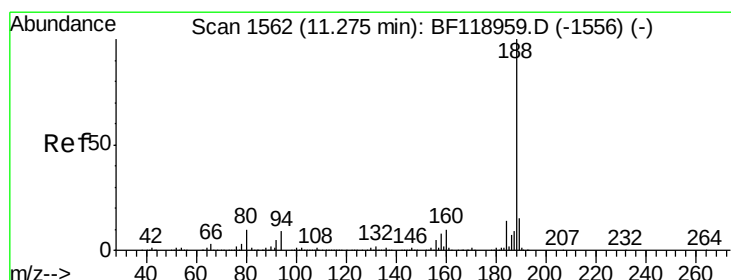
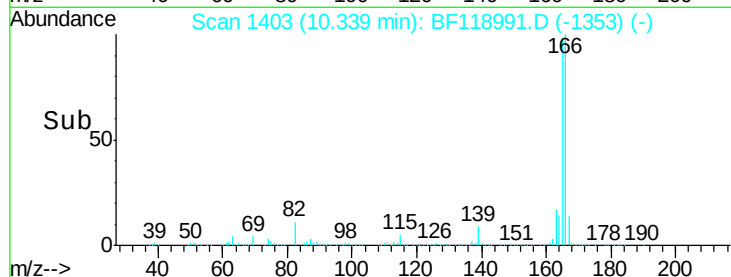
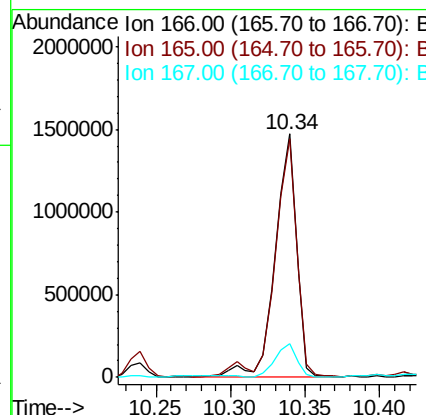
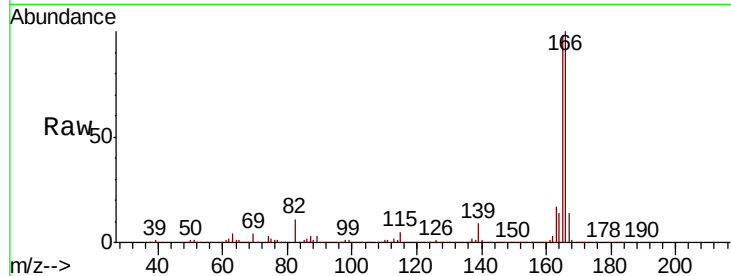
#58
 Fluorene
 Concen: 66.797 ng
 RT: 10.34 min Scan# 1403
 Delta R.T. -0.01 min
 Lab File: BF118991.D
 Acq: 21 Feb 2020 14:25

Instrument :
 BNA_F
 ClientSampleId :
 TP9-EP1-2.5

Tot Ion	Ratio	Lower	Upper
166	100		
165	97.7	78.2	117.4
167	14.0	10.6	16.0

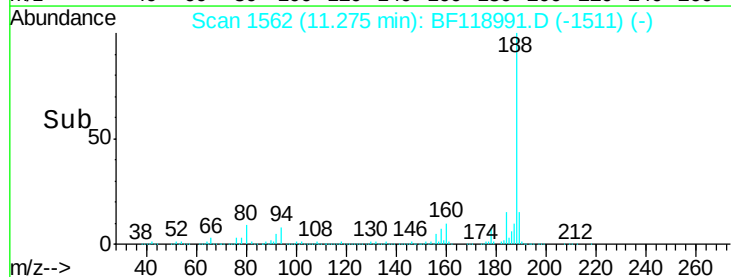
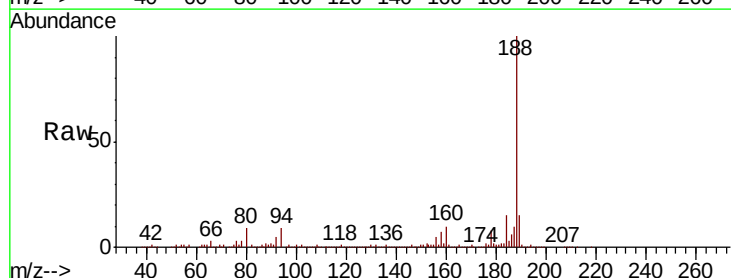
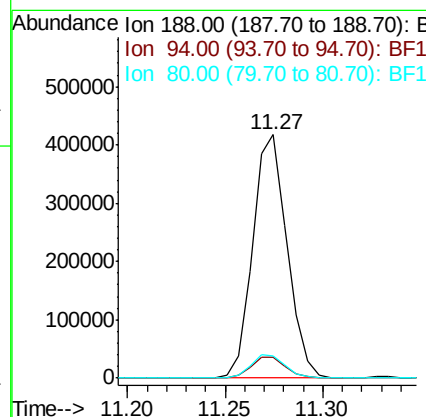
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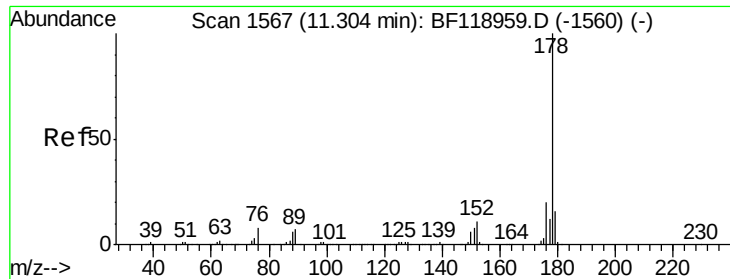
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#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.27 min Scan# 1562
 Delta R.T. -0.00 min
 Lab File: BF118991.D
 Acq: 21 Feb 2020 14:25

Tgt Ion	Ratio	Lower	Upper
188	100		
94	8.5	7.0	10.6
80	8.9	7.9	11.9





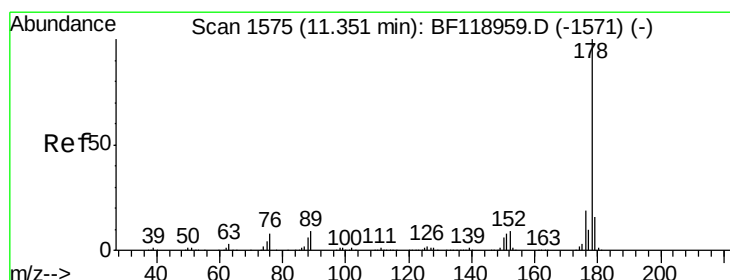
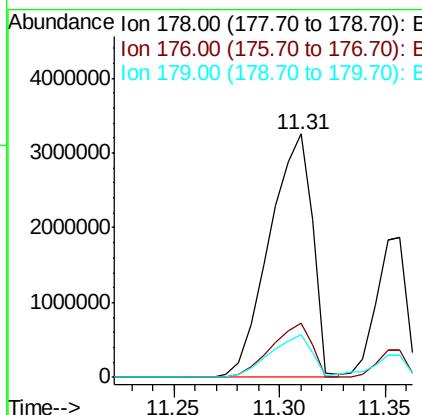
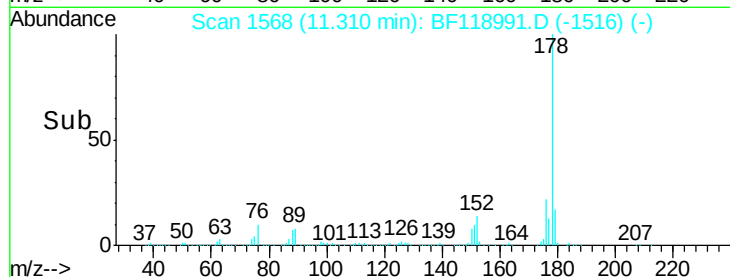
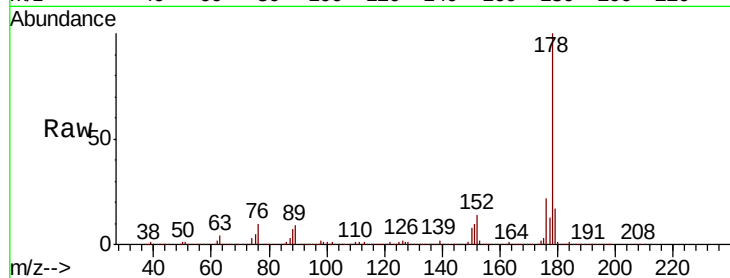
#71
Phenanthrene
Concen: 166.836 ng
RT: 11.31 min Scan# 1568
Delta R.T. 0.01 min
Lab File: BF118991.D
Acq: 21 Feb 2020 14:25

Instrument :
BNA_F
ClientSampleId :
TP9-EP1-2.5

Tot Ion:178 Resp: 4607146
Ion Ratio Lower Upper
178 100
176 22.2 15.6 23.4
179 17.4 12.6 18.8

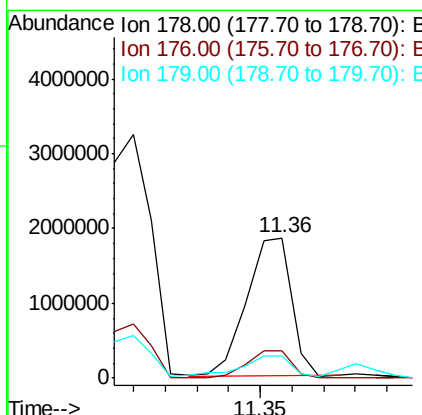
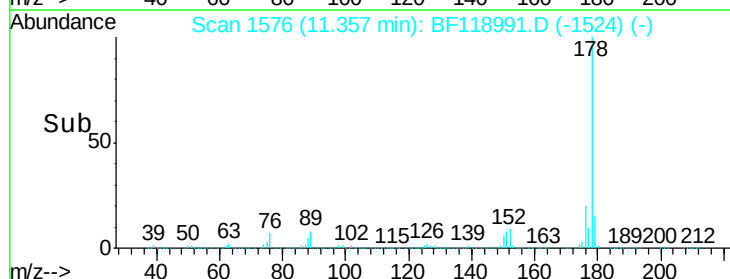
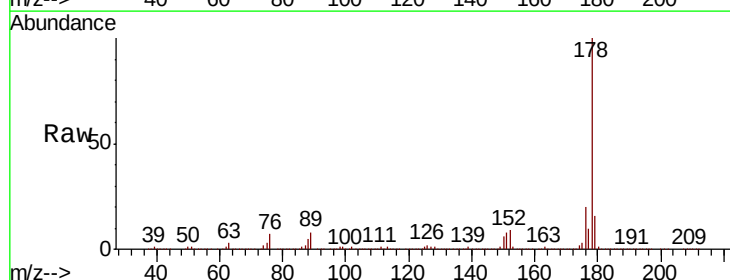
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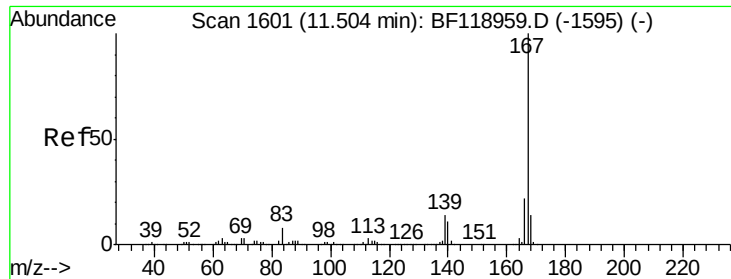
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#72
Anthracene
Concen: 65.677 ng
RT: 11.36 min Scan# 1576
Delta R.T. 0.01 min
Lab File: BF118991.D
Acq: 21 Feb 2020 14:25

Tgt Ion:178 Resp: 1812150
Ion Ratio Lower Upper
178 100
176 19.6 15.4 23.2
179 15.6 12.8 19.2





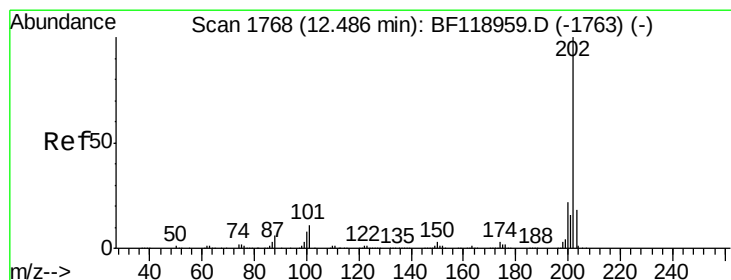
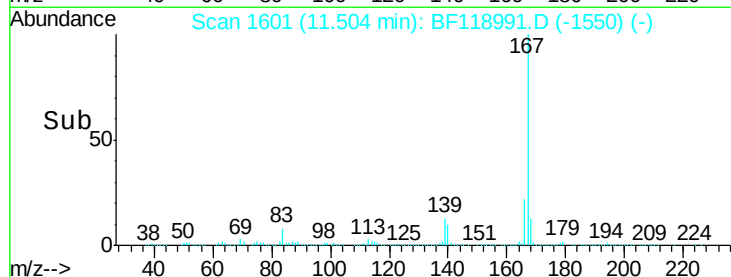
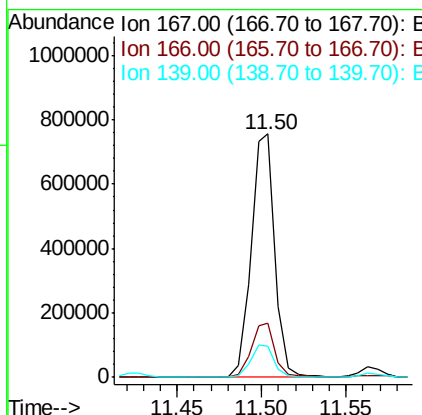
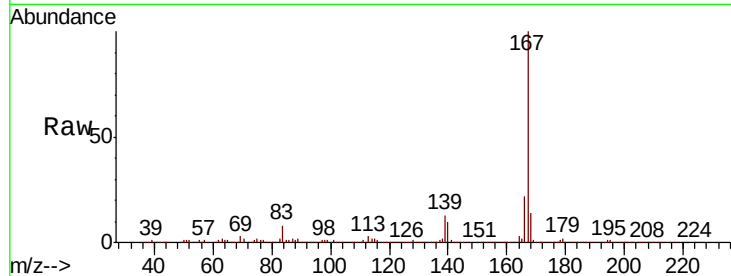
#73
 Carbazole
 Concen: 29.843 ng
 RT: 11.50 min Scan# 1601
 Delta R.T. -0.00 min
 Lab File: BF118991.D
 Acq: 21 Feb 2020 14:25

Instrument :
 BNA_F
 ClientSampleId :
 TP9-EP1-2.5

Tot Ion	Ratio	Lower	Upper
167	100		
166	22.2	17.8	26.6
139	12.8	11.2	16.8

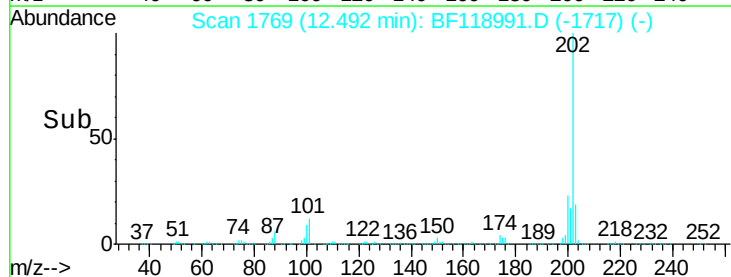
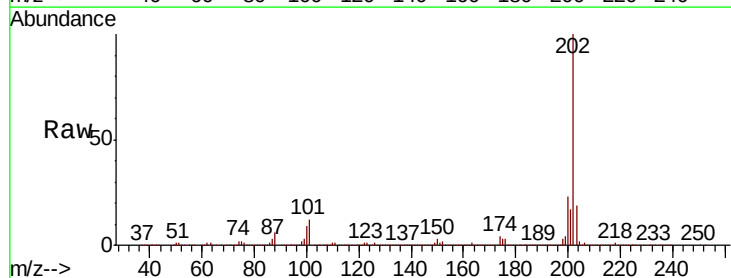
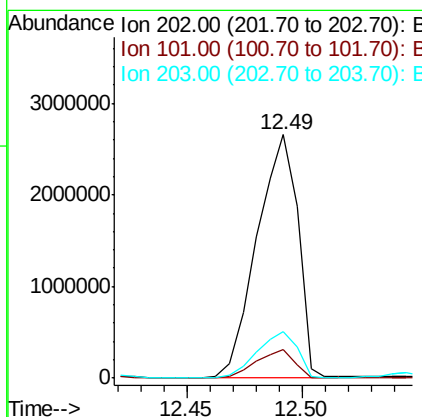
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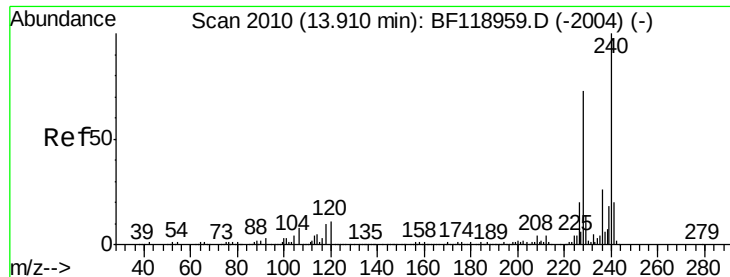
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#75
 Fluoranthene
 Concen: 111.086 ng
 RT: 12.49 min Scan# 1769
 Delta R.T. 0.01 min
 Lab File: BF118991.D
 Acq: 21 Feb 2020 14:25

Tgt Ion	Ratio	Lower	Upper
202	100		
101	11.6	0.0	31.1
203	19.1	0.0	38.1





#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.91 min Scan# 2010

Delta R.T. -0.00 min

Lab File: BF118991.D

Acq: 21 Feb 2020 14:25

Instrument :

BNA_F

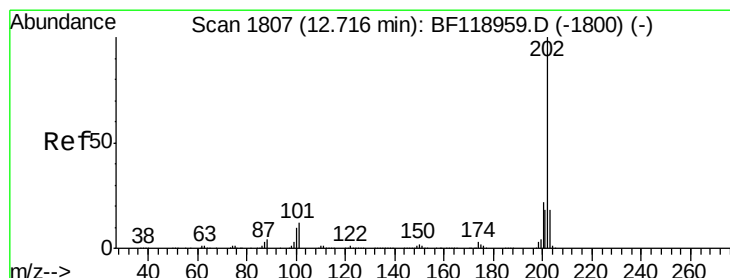
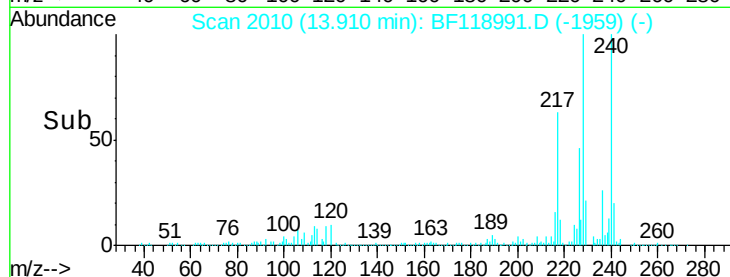
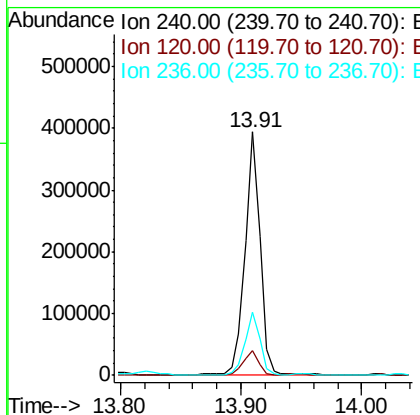
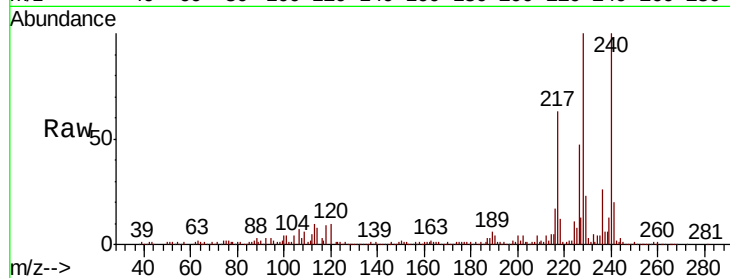
ClientSampleId :

TP9-EP1-2.5

Tot Ion	Ratio	Lower	Upper
240	100		
120	10.1	8.9	13.3
236	26.2	20.6	30.8

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#78

Pyrene

Concen: 101.359 ng

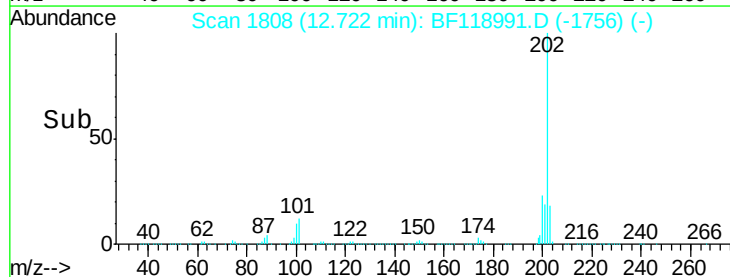
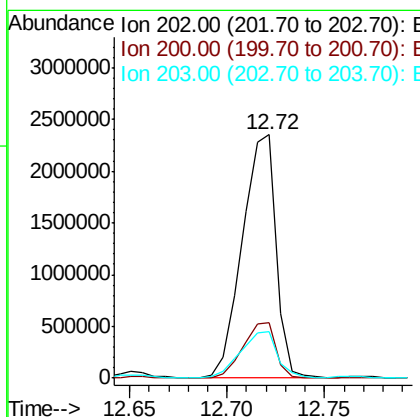
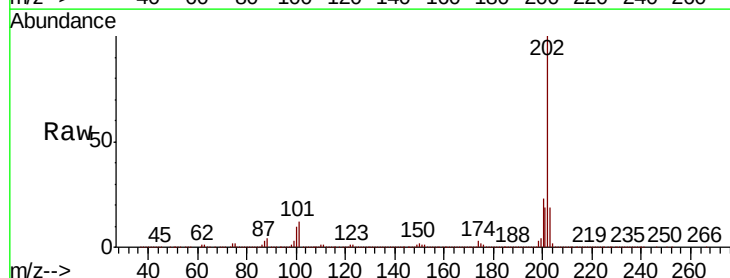
RT: 12.72 min Scan# 1808

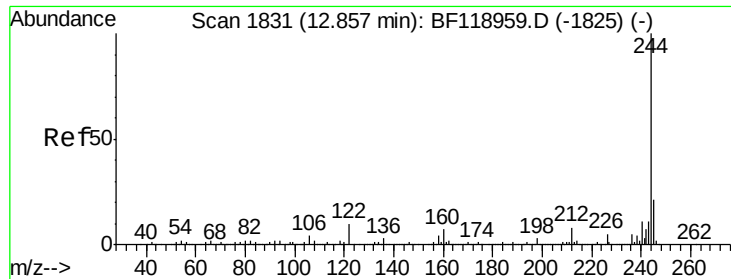
Delta R.T. 0.01 min

Lab File: BF118991.D

Acq: 21 Feb 2020 14:25

Tgt Ion	Ratio	Lower	Upper
202	100		
200	23.0	17.4	26.0
203	19.3	14.5	21.7





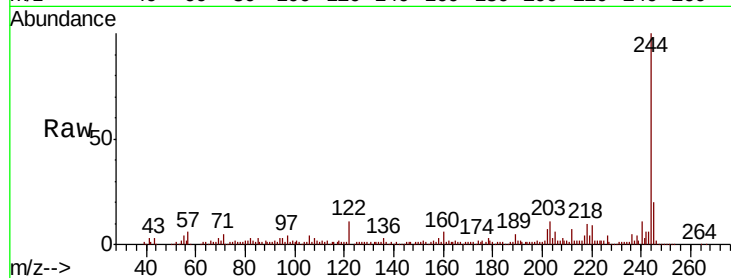
#79
 Terphenyl-d14
 Concen: 6.757 ng
 RT: 12.85 min Scan# 1829
 Delta R.T. -0.01 min
 Lab File: BF118991.D
 Acq: 21 Feb 2020 14:25

Instrument :
 BNA_F
 ClientSampleId :
 TP9-EP1-2.5

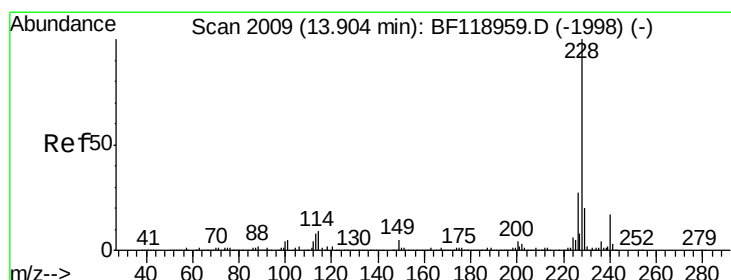
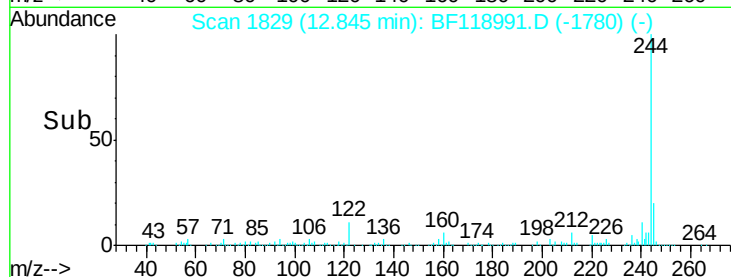
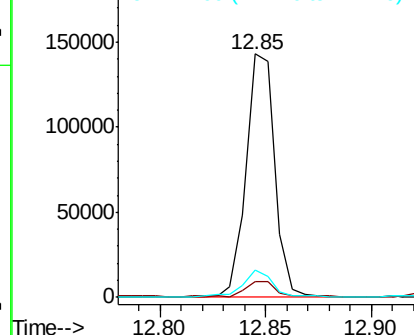
Tot Ion	Ratio	Lower	Upper
244	100		
212	6.7	6.3	9.5
122	11.0	8.4	12.6

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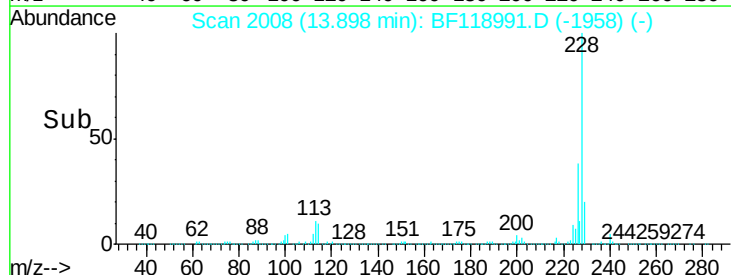
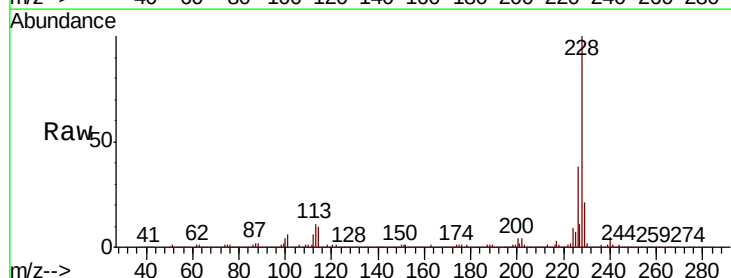
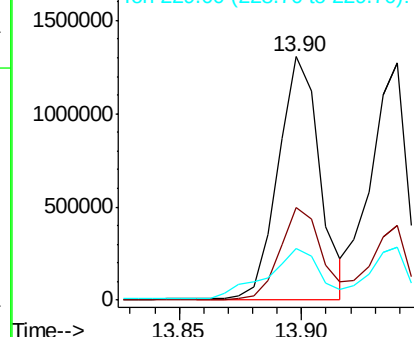
Abundance Ion 244.00 (243.70 to 244.70): E
 Ion 212.00 (211.70 to 212.70): E
 Ion 122.00 (121.70 to 122.70): E

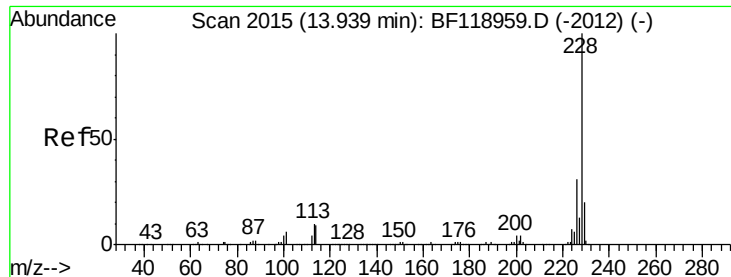


#81
 Benzo(a)anthracene
 Concen: 65.687 ng m
 RT: 13.90 min Scan# 2008
 Delta R.T. -0.01 min
 Lab File: BF118991.D
 Acq: 21 Feb 2020 14:25

Tgt Ion	Ratio	Lower	Upper
228	100		
226	38.1	21.8	32.8#
229	21.0	16.0	24.0

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





#83

Chrysene

Concen: 55.861 ng

RT: 13.94 min Scan# 2015

Delta R.T. -0.00 min

Lab File: BF118991.D

Acq: 21 Feb 2020 14:25

Instrument :

BNA_F

ClientSampleId :

TP9-EP1-2.5

Tot Ion:228 Resp: 1308517

Ion Ratio Lower Upper

228 100

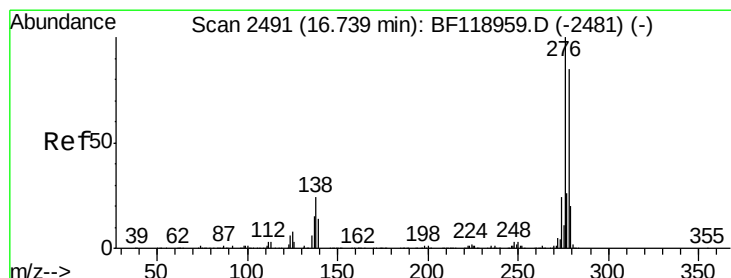
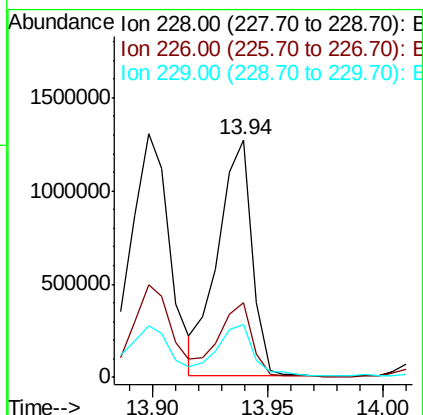
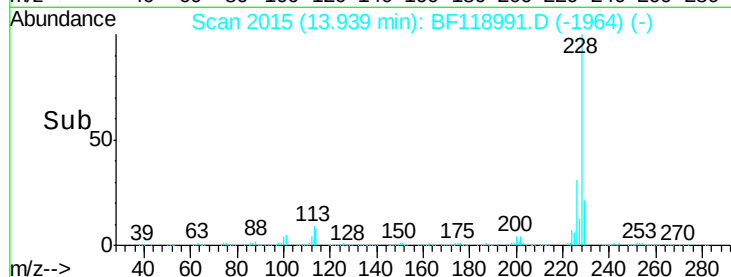
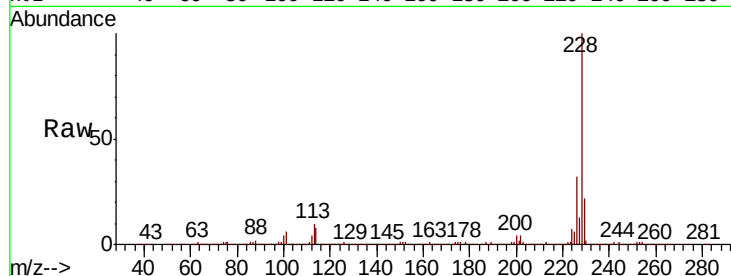
226 31.6 24.6 37.0

229 22.2 16.2 24.2

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#86

Indeno(1,2,3-cd)pyrene

Concen: 38.852 ng

RT: 16.74 min Scan# 2492

Delta R.T. 0.01 min

Lab File: BF118991.D

Acq: 21 Feb 2020 14:25

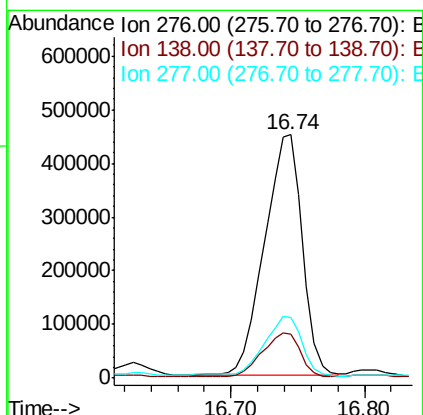
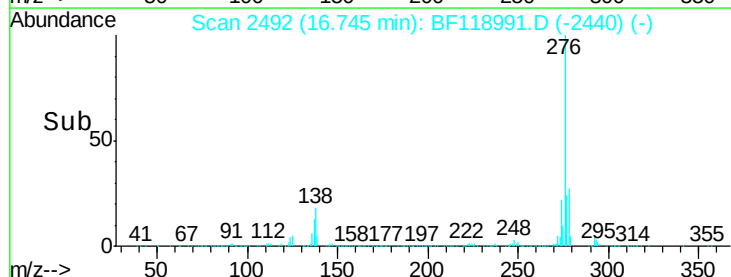
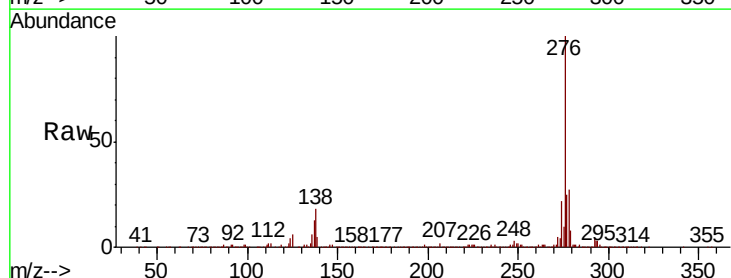
Tgt Ion:276 Resp: 881204

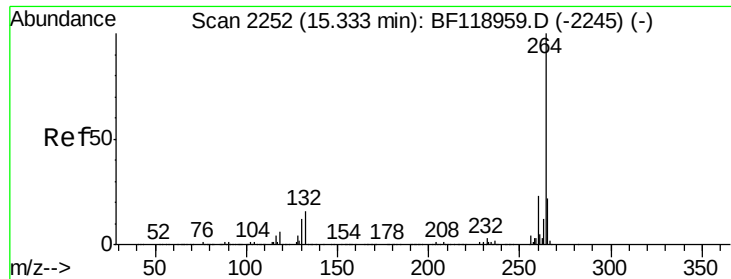
Ion Ratio Lower Upper

276 100

138 18.4 18.7 28.1#

277 24.1 20.3 30.5





#87

Pervlene-d12

Concen: 20.000 ng

RT: 15.33 min Scan# 2252

Delta R.T. -0.00 min

Lab File: BF118991.D

Acq: 21 Feb 2020 14:25

Instrument :

BNA_F

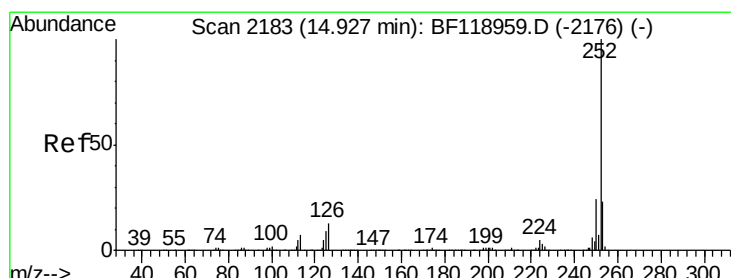
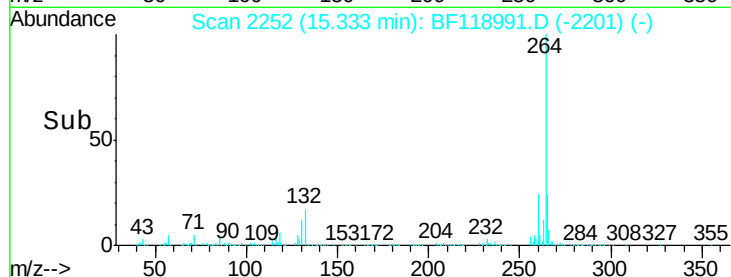
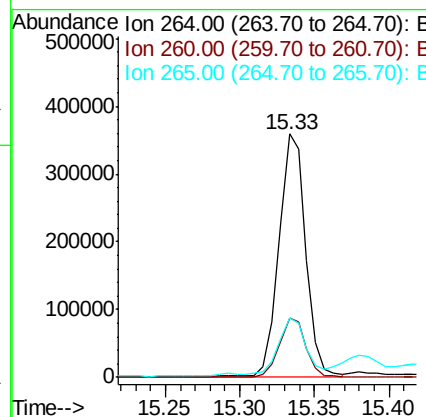
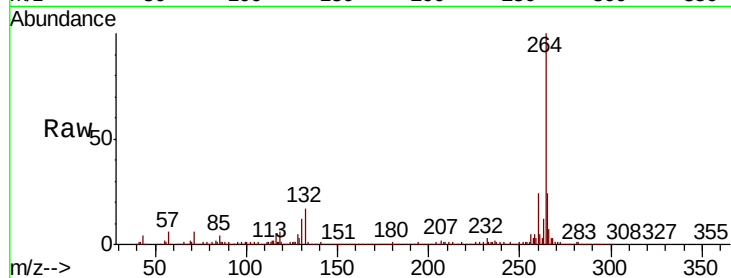
ClientSampleId :

TP9-EP1-2.5

Tot Ion:	264	Resp:	450830
Ion Ratio	Lower	Upper	
264	100		
260	24.2	18.6	28.0
265	24.4	17.3	25.9

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#88

Benzo(b)fluoranthene

Concen: 52.321 ng m

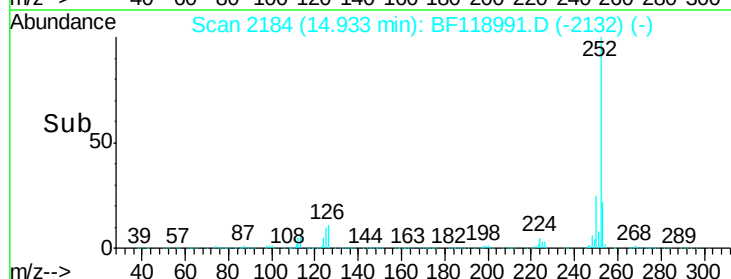
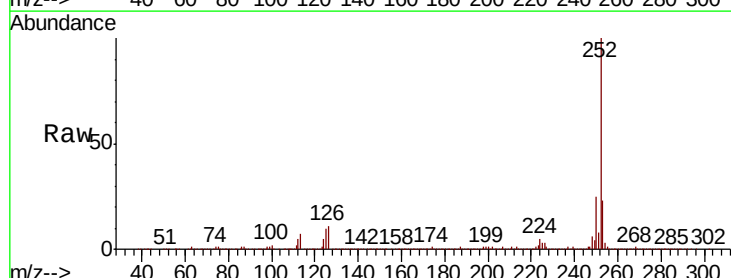
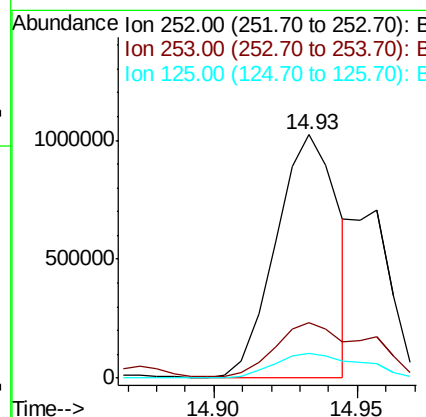
RT: 14.93 min Scan# 2184

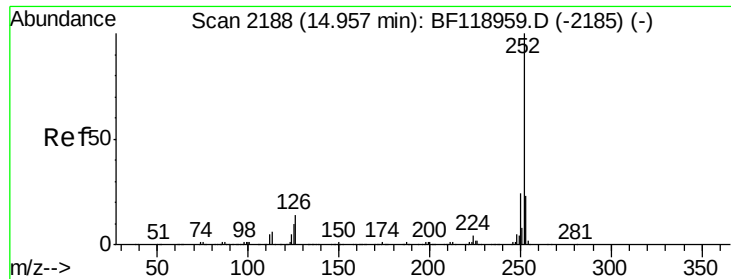
Delta R.T. 0.01 min

Lab File: BF118991.D

Acq: 21 Feb 2020 14:25

Tgt Ion:	252	Resp:	1554797
Ion Ratio	Lower	Upper	
252	100		
253	23.0	18.2	27.2
125	10.2	7.4	11.0





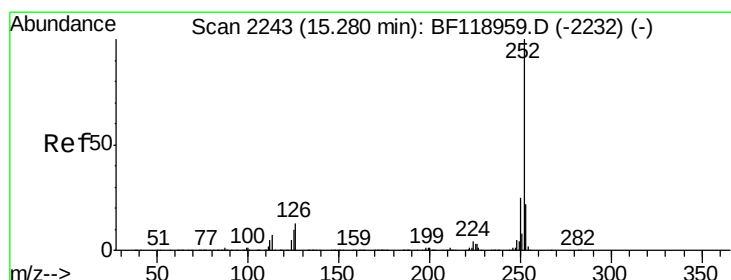
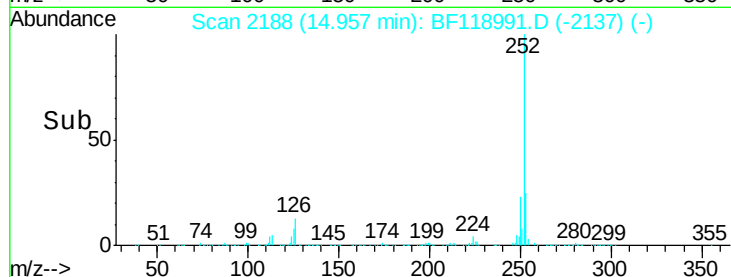
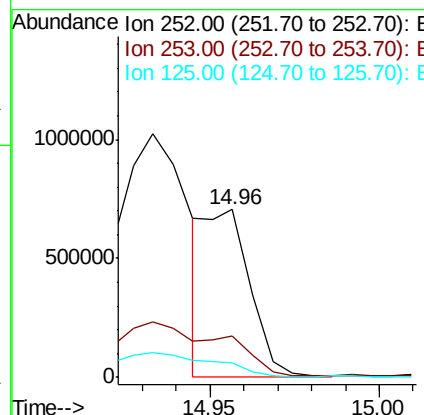
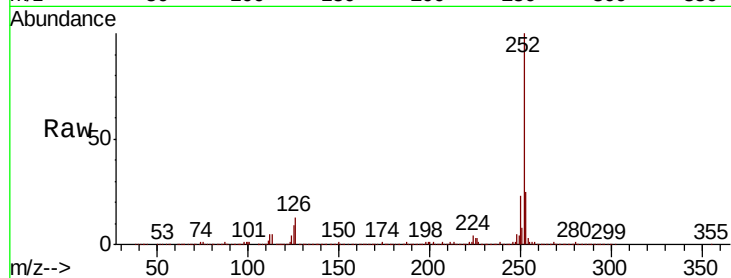
#89
Benzo(k)fluoranthene
Concen: 23.281 ng m
RT: 14.96 min Scan# 2188
Delta R.T. -0.00 min
Lab File: BF118991.D
Acq: 21 Feb 2020 14:25

Instrument :
BNA_F
ClientSampleId :
TP9-EP1-2.5

Tot Ion	Ratio	Lower	Upper
252	100		
253	25.0	17.9	26.9
125	8.5	7.3	10.9

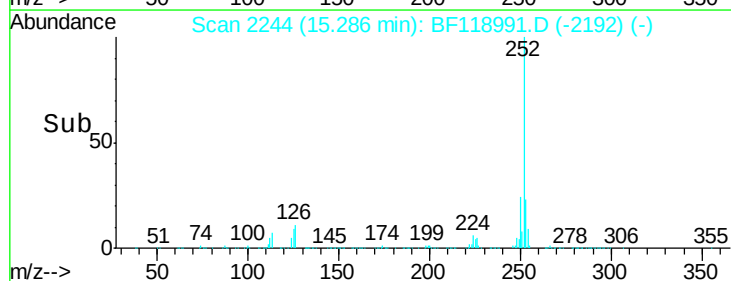
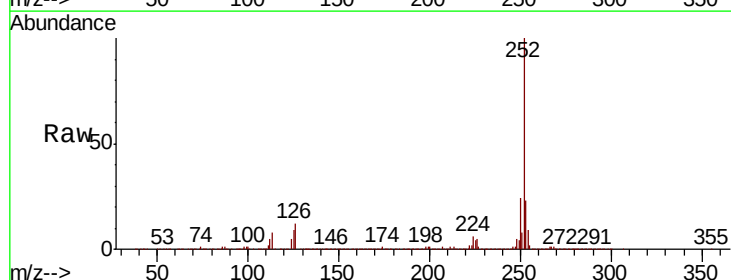
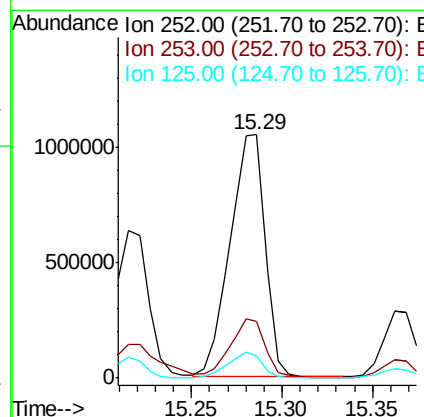
Manual Integrations
APPROVED

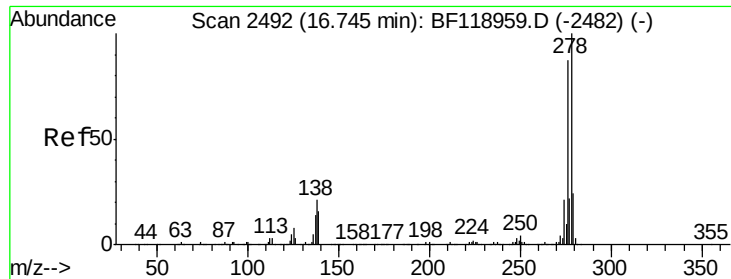
mohammad
2/24/2020 2:11:11 PM



#90
Benzo(a)pyrene
Concen: 52.702 ng
RT: 15.29 min Scan# 2244
Delta R.T. 0.01 min
Lab File: BF118991.D
Acq: 21 Feb 2020 14:25

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.3	17.9	26.9
125	9.1	7.8	11.6





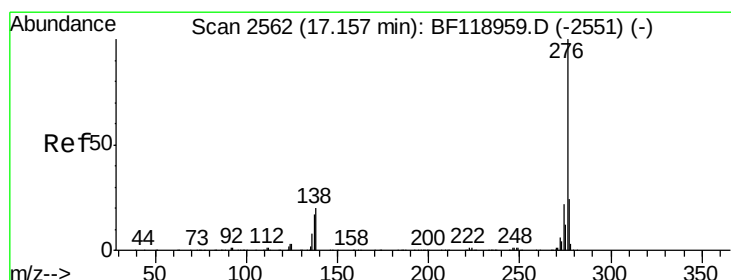
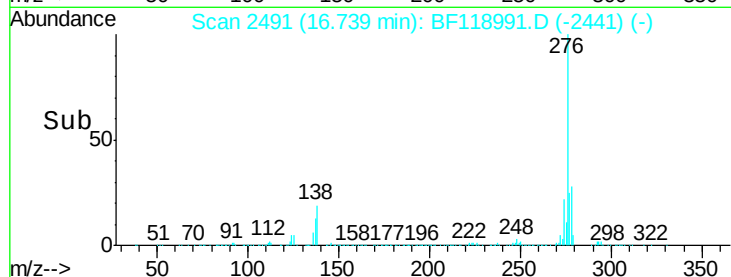
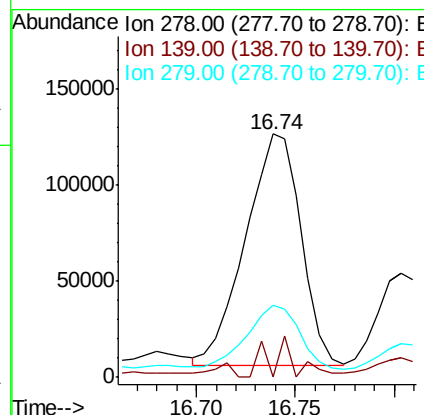
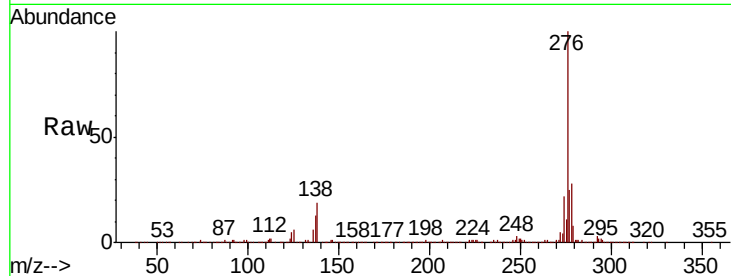
#91
Dibenzo(a,h)anthracene
Concen: 10.020 ng
RT: 16.74 min Scan# 2491
Delta R.T. -0.01 min
Lab File: BF118991.D
Acq: 21 Feb 2020 14:25

Instrument :
BNA_F
ClientSampleId :
TP9-EP1-2.5

Tot Ion	Ratio	Lower	Upper
278	100		
139	0.0	12.6	18.8#
279	29.7	19.0	28.6#

Manual Integrations
APPROVED

mohammad
2/24/2020 2:11:11 PM



#92
Benzo(g,h,i)perylene
Concen: 36.292 ng
RT: 17.17 min Scan# 2564
Delta R.T. 0.01 min
Lab File: BF118991.D
Acq: 21 Feb 2020 14:25

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.5	19.2	28.8
138	19.1	16.2	24.4

