

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021120\
 Data File : BF118901.D
 Acq On : 11 Feb 2020 23:27
 Operator : CG/JU
 Sample : L1482-02 5X
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP7-EP2-2

Manual Integrations
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Quant Time: Feb 12 08:01:55 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF020320.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Feb 03 16:26:03 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.80	152	160899	20.00	ng	-0.01
21) Naphthalene-d8	8.09	136	613414	20.00	ng	-0.01
39) Acenaphthene-d10	9.85	164	373501	20.00	ng	-0.01
64) Phenanthrene-d10	11.34	188	909244	20.00	ng	0.00
76) Chrysene-d12	13.99	240	466492	20.00	ng	0.00
87) Perylene-d12	15.44	264	527190	20.00	ng	0.01

System Monitoring Compounds						
5) 2-Fluorophenol	5.42	112	225899	26.58	ng	-0.01
7) Phenol-d6	6.44	99	227542	21.56	ng	-0.01
23) Nitrobenzene-d5	7.36	82	145166	14.11	ng	-0.02
42) 2,4,6-Tribromophenol	10.63	330	88335	19.77	ng	-0.01
45) 2-Fluorobiphenyl	9.16	172	350874	16.79	ng	-0.02
79) Terphenyl-d14	12.92	244	581984	25.63	ng	-0.01

Target Compounds				Qvalue		
31) Naphthalene	8.13	128	7061811	251.713	ng	95
37) 2-Methylnaphthalene	8.82	142	2788793	143.327	ng	# 94
38) 1-Methylnaphthalene	8.91	142	2209046	120.687	ng	# 98
46) 1,1'-Biphenyl	9.26	154	721545	27.927	ng	99
49) Acenaphthylene	9.71	152	1529426	49.316	ng	# 97
52) Acenaphthene	9.87	154	330779	16.186	ng	98
55) Dibenzofuran	10.05	168	863390	29.234	ng	# 96
58) Fluorene	10.40	166	1908886	85.913	ng	98
71) Phenanthrene	11.38	178	7887971	176.322	ng	92
72) Anthracene	11.42	178	2351627	52.840	ng	100
73) Carbazole	11.56	167	565151	14.470	ng	99
75) Fluoranthene	12.56	202	5196018	106.380	ng	96
78) Pvrene	12.80	202	5904387	184.497	ng	93
81) Benzo(a)anthracene	13.97	228	2679101m	96.513	ng	
83) Chrysene	14.02	228	2187137	78.503	ng	96
86) Indeno(1,2,3-cd)pyrene	16.89	276	969383	34.630	ng	97
88) Benzo(b)fluoranthene	15.02	252	2590574m	79.191	ng	
89) Benzo(k)fluoranthene	15.04	252	633665m	22.244	ng	
90) Benzo(a)pvrene	15.39	252	2319053	82.835	ng	98
91) Dibenzo(a,h)anthracene	16.89	278	339553m	13.662	ng	
92) Benzo(g,h,i)perylene	17.33	276	948211	39.672	ng	99

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

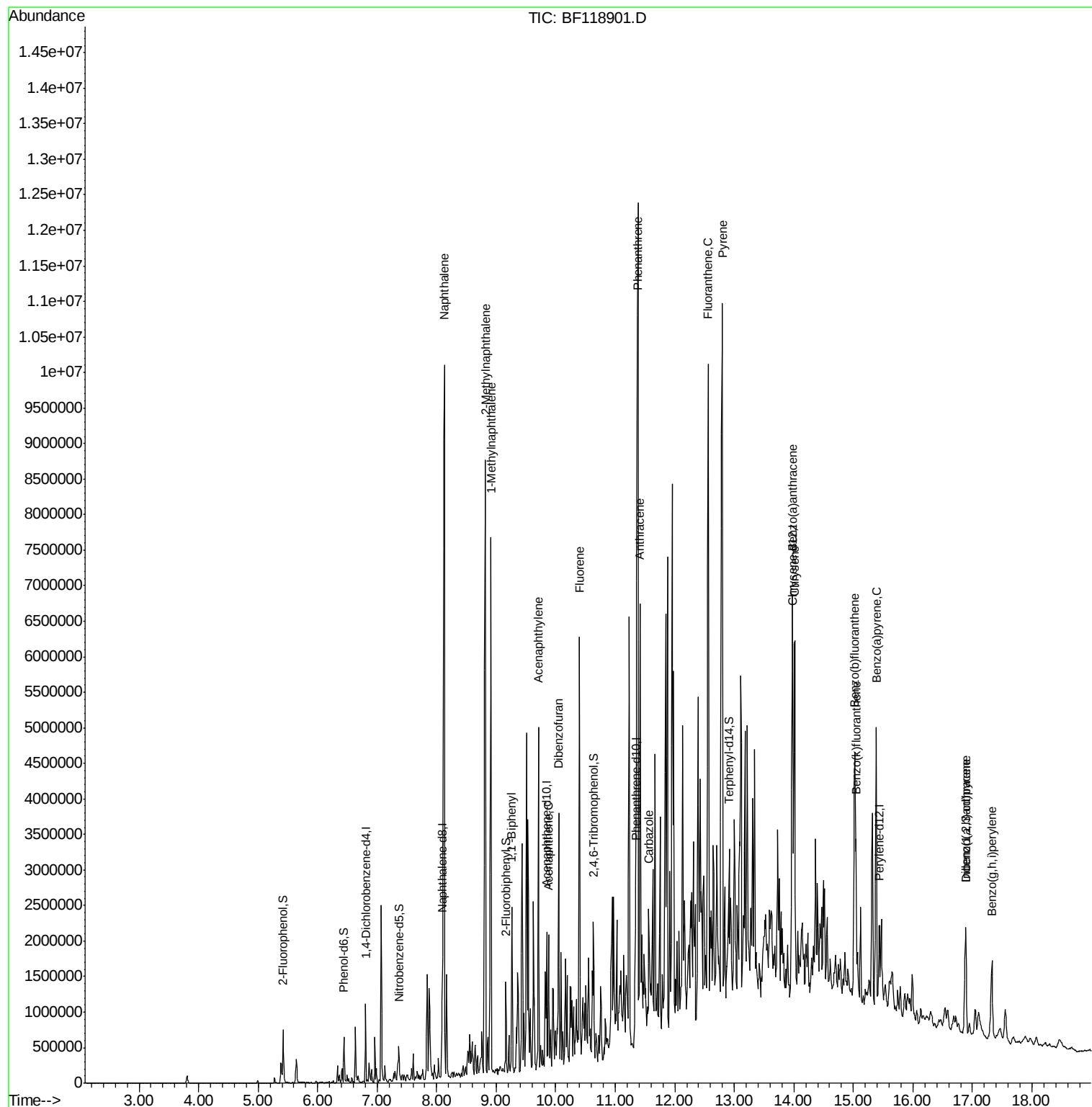
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021120\
Data File : BF118901.D
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ALS Vial : 18 Sample Multiplier: 1

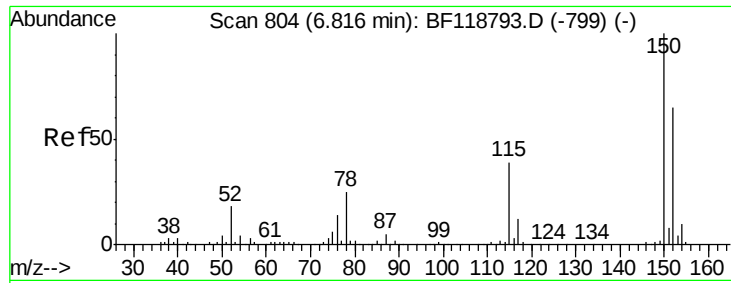
Instrument :
BNA_F
ClientSampleId :
TP7-EP2-2

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Quant Time: Feb 12 08:01:55 2020
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF020320.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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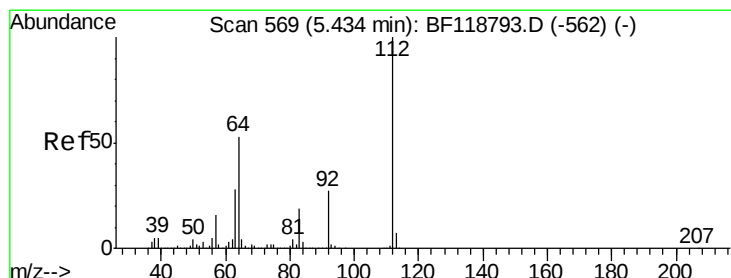
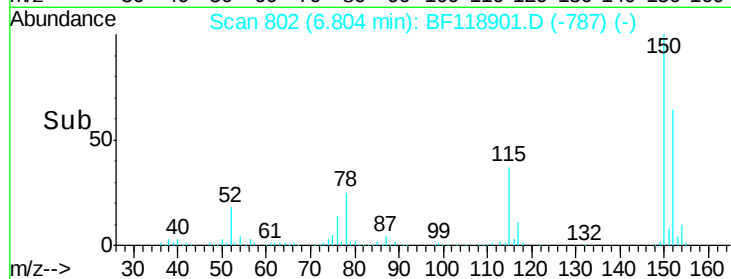
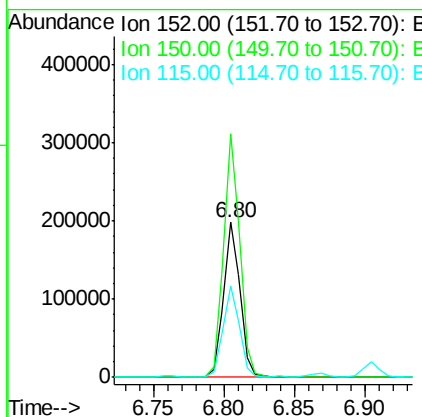
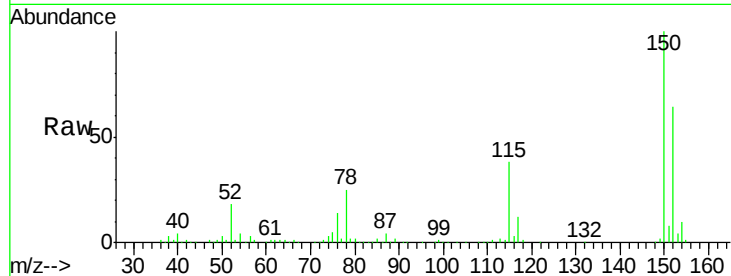
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.80 min Scan# 802
 Delta R.T. -0.01 min
 Lab File: BF118901.D
 Acq: 11 Feb 2020 23:27

Instrument :
 BNA_F
 ClientSampleId :
 TP7-EP2-2

Tot Ion	Ratio	Lower	Upper
152	100		
150	156.8	123.6	185.4
115	59.1	48.2	72.2

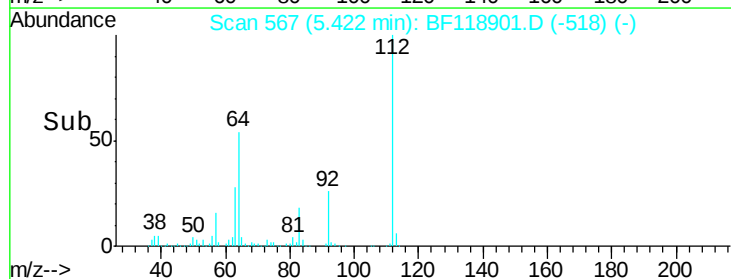
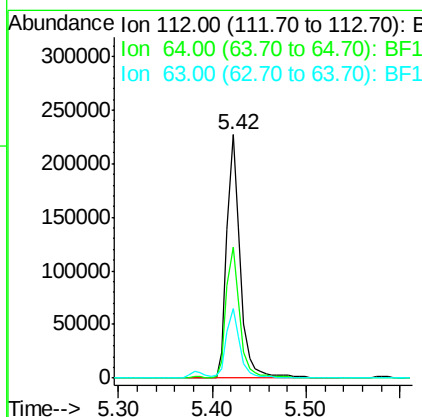
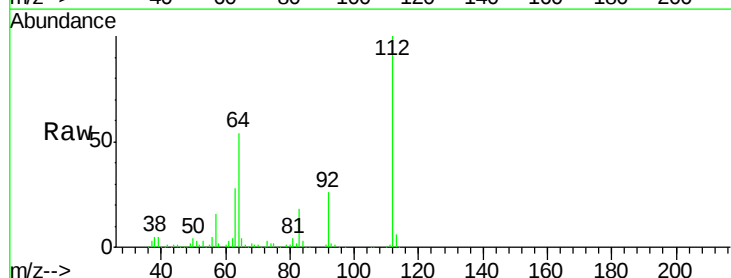
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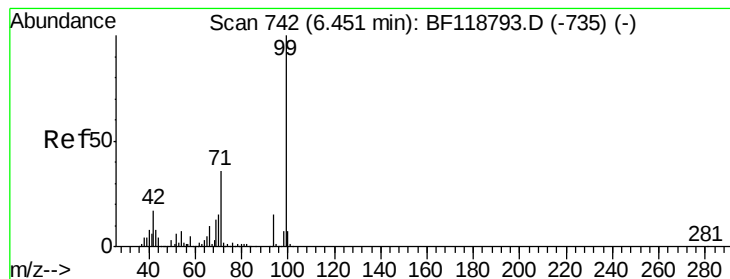
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#5
 2-Fluorophenol
 Concen: 26.576 ng
 RT: 5.42 min Scan# 567
 Delta R.T. -0.01 min
 Lab File: BF118901.D
 Acq: 11 Feb 2020 23:27

Tgt Ion	Ratio	Lower	Upper
112	100		
64	54.1	42.6	63.8
63	28.4	22.2	33.4





#7

Phenol-d6

Concen: 21.565 ng

RT: 6.44 min Scan# 740

Delta R.T. -0.01 min

Lab File: BF118901.D

Acq: 11 Feb 2020 23:27

Instrument :

BNA_F

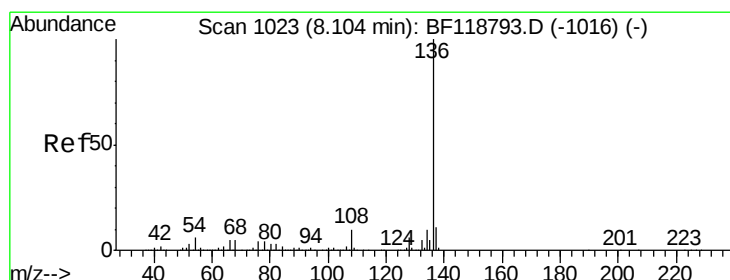
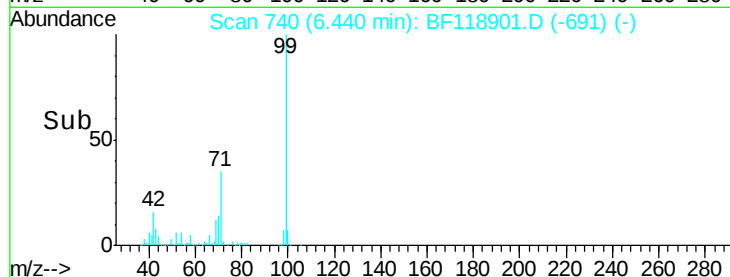
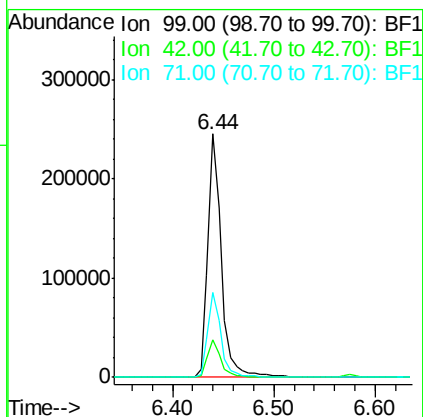
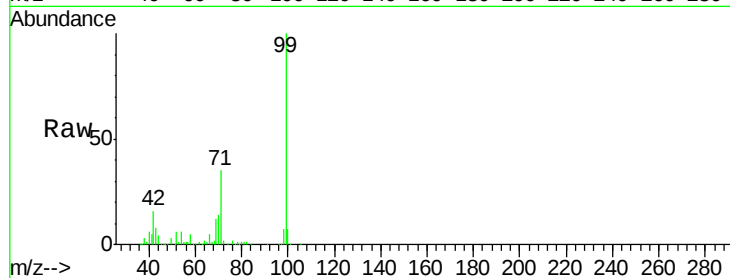
ClientSampleId :

TP7-EP2-2

Tot Ion:	99	Resp:	227542
Ion Ratio	Lower	Upper	
99	100		
42	15.5	13.4	20.0
71	35.0	29.0	43.6

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#21

Naphthalene-d8

Concen: 20.000 ng

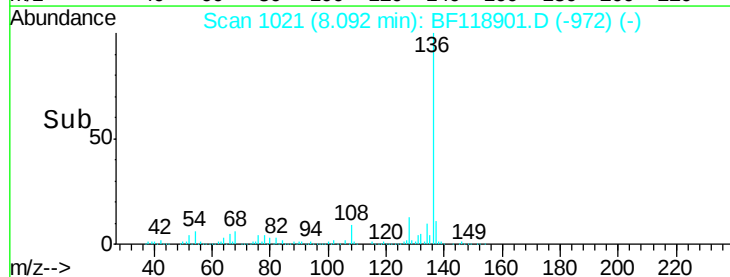
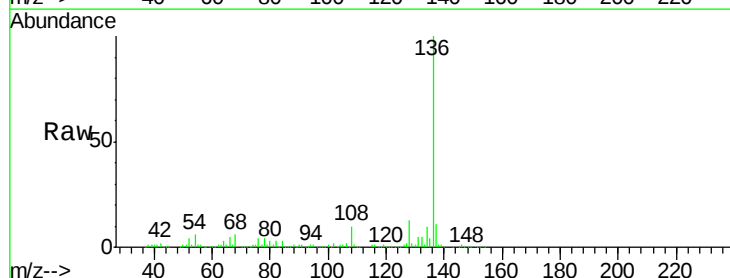
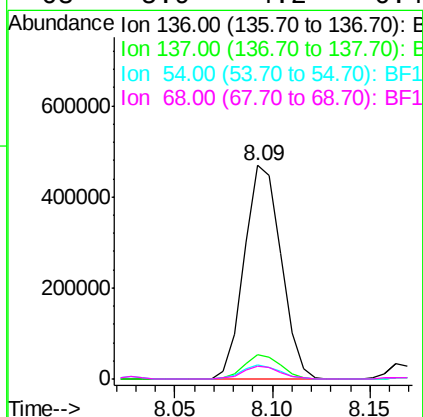
RT: 8.09 min Scan# 1021

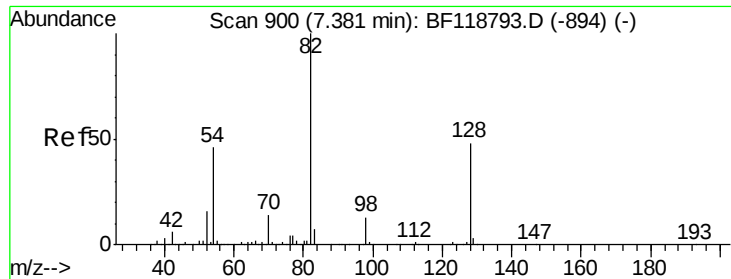
Delta R.T. -0.01 min

Lab File: BF118901.D

Acq: 11 Feb 2020 23:27

Tgt Ion:	136	Resp:	613414
Ion Ratio	Lower	Upper	
136	100		
137	11.4	8.7	13.1
54	6.3	5.0	7.6
68	5.9	4.2	6.4





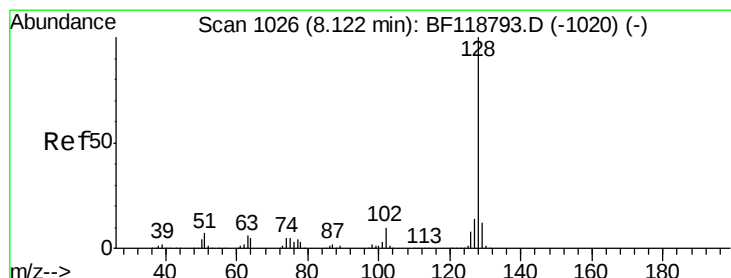
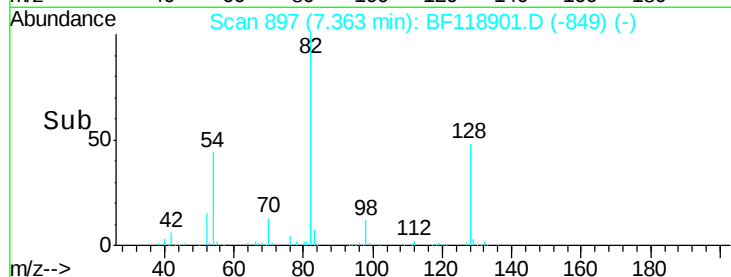
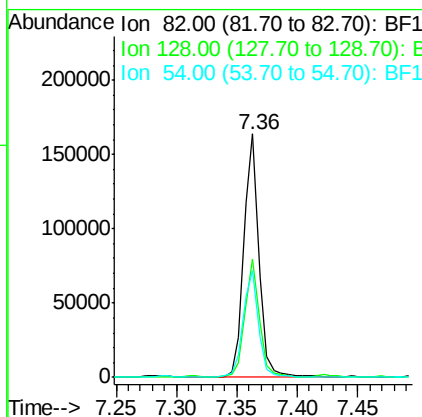
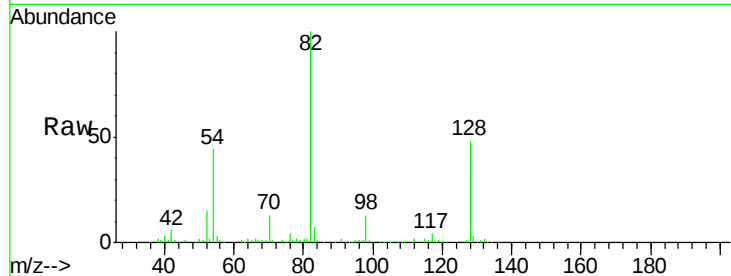
#23
Nitrobenzene-d5
Concen: 14.106 ng
RT: 7.36 min Scan# 897
Delta R.T. -0.02 min
Lab File: BF118901.D
Acq: 11 Feb 2020 23:27

Instrument :
BNA_F
ClientSampleId :
TP7-EP2-2

Tot Ion	82	Resp	145166
Ion Ratio	Lower	Upper	
82	100		
128	48.3	38.5	57.7
54	43.9	36.7	55.1

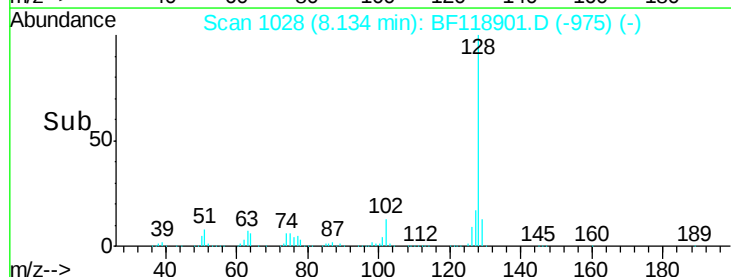
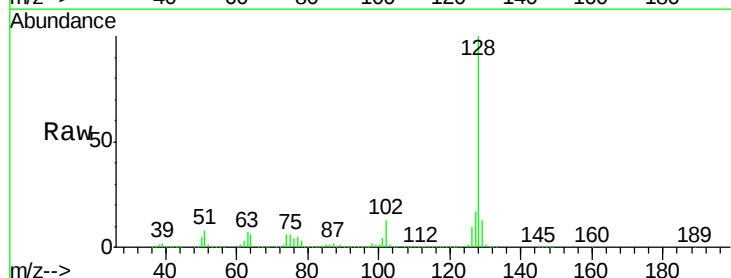
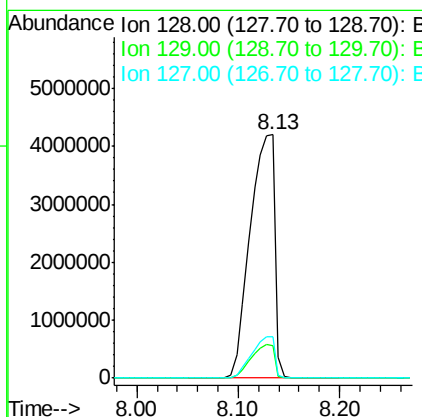
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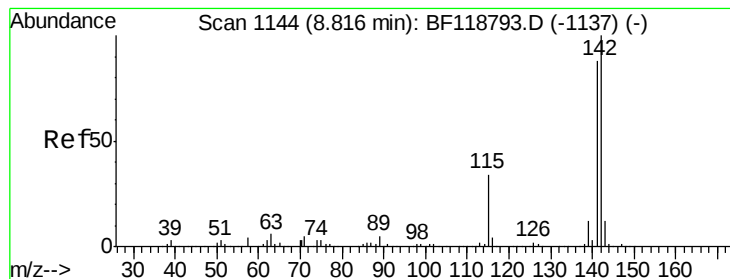
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#31
Naphthalene
Concen: 251.713 ng
RT: 8.13 min Scan# 1028
Delta R.T. 0.01 min
Lab File: BF118901.D
Acq: 11 Feb 2020 23:27

Tgt Ion	128	Resp	7061811
Ion Ratio	Lower	Upper	
128	100		
129	13.2	9.4	14.2
127	16.8	11.3	16.9





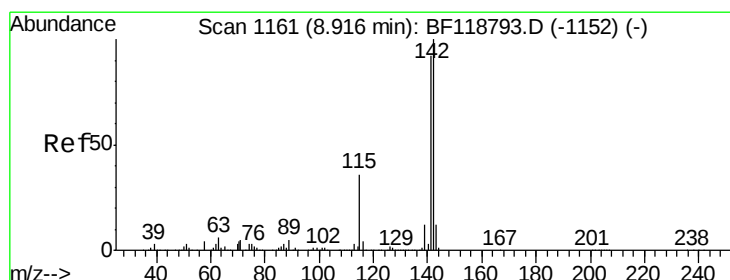
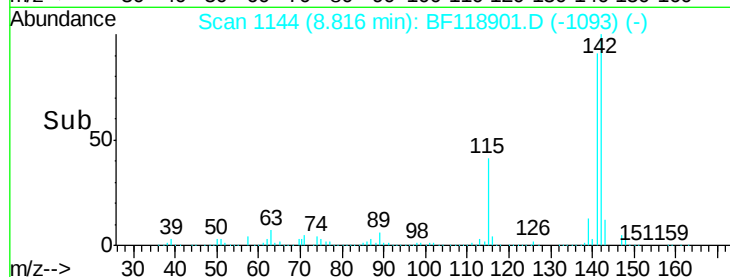
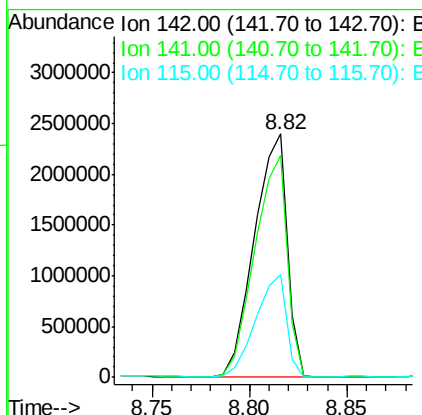
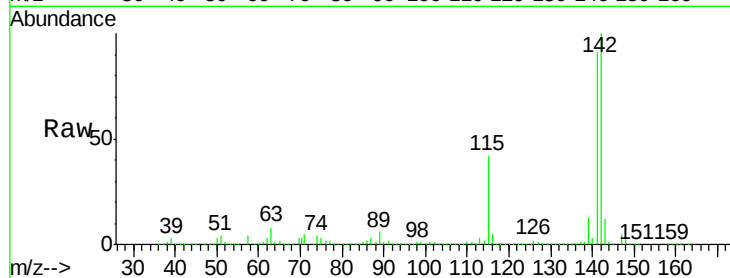
#37
2-Methylnaphthalene
Concen: 143.327 ng
RT: 8.82 min Scan# 1144
Delta R.T. 0.00 min
Lab File: BF118901.D
Acq: 11 Feb 2020 23:27

Instrument :
BNA_F
ClientSampleId :
TP7-EP2-2

Tot Ion	Ratio	Lower	Upper
142	100		
141	91.0	70.1	105.1
115	42.0	27.3	40.9

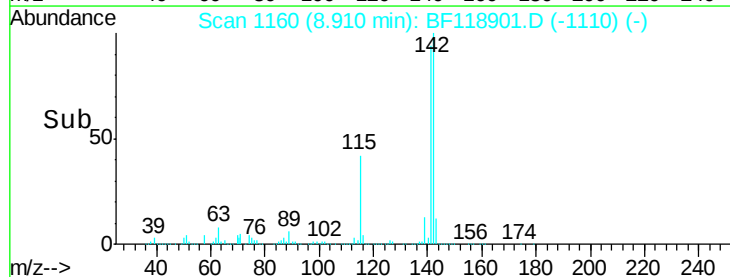
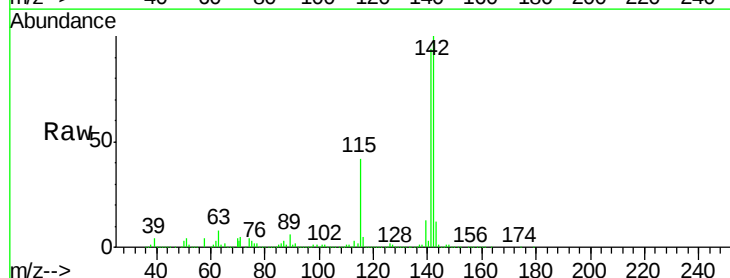
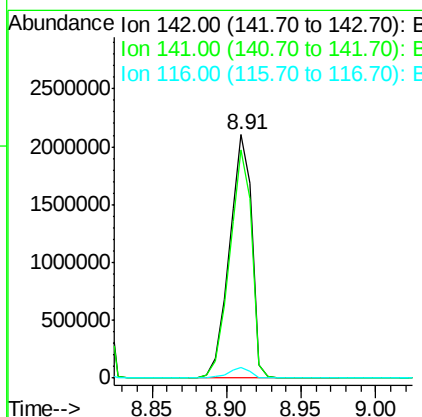
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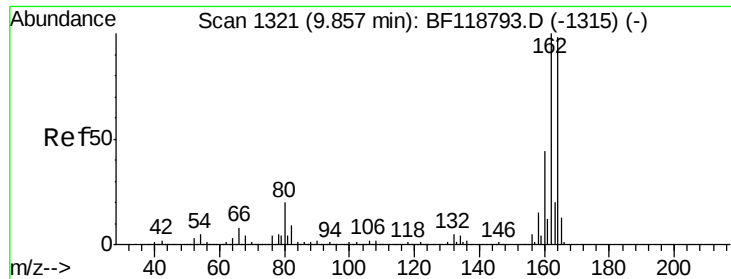
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#38
1-Methylnaphthalene
Concen: 120.687 ng
RT: 8.91 min Scan# 1160
Delta R.T. -0.01 min
Lab File: BF118901.D
Acq: 11 Feb 2020 23:27

Tgt Ion	Ratio	Lower	Upper
142	100		
141	94.0	73.8	110.6
116	4.5	3.0	4.4





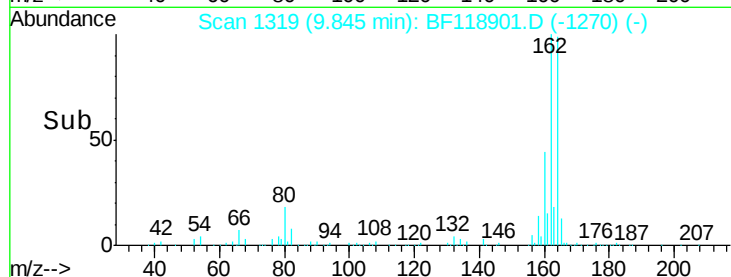
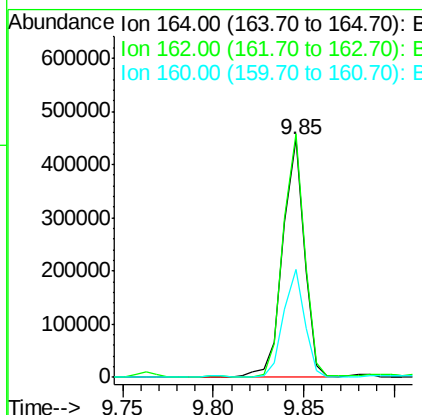
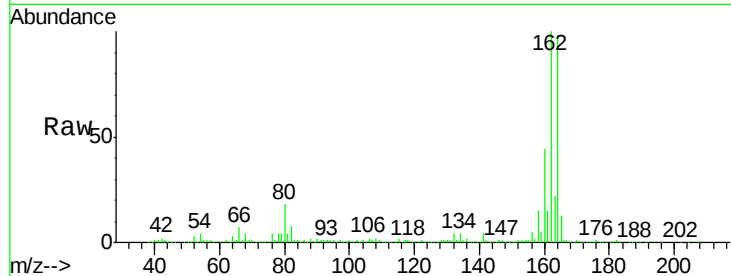
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.85 min Scan# 1319
Delta R.T. -0.01 min
Lab File: BF118901.D
Acq: 11 Feb 2020 23:27

Instrument :
BNA_F
ClientSampleId :
TP7-EP2-2

Tot Ion	Ratio	Resp	Lower	Upper
164	100			
162	102.3	81.4	122.2	
160	45.2	35.6	53.4	

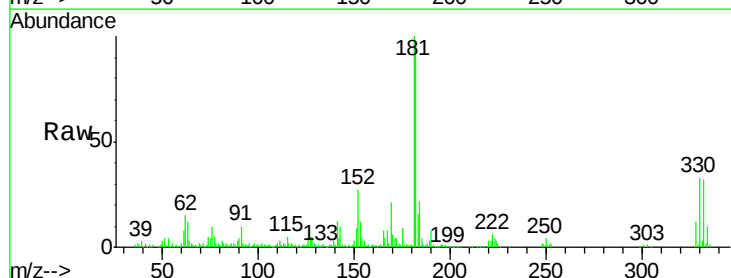
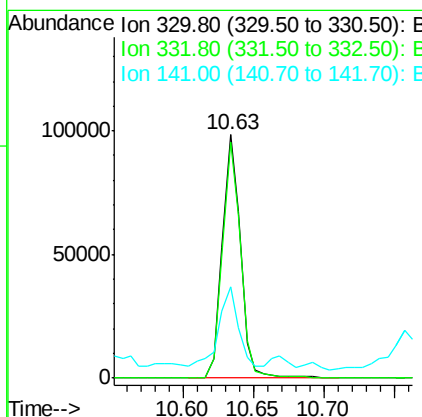
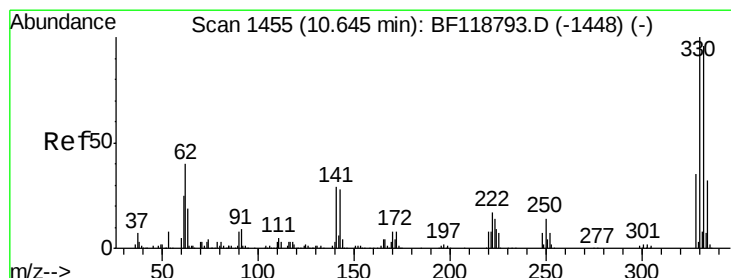
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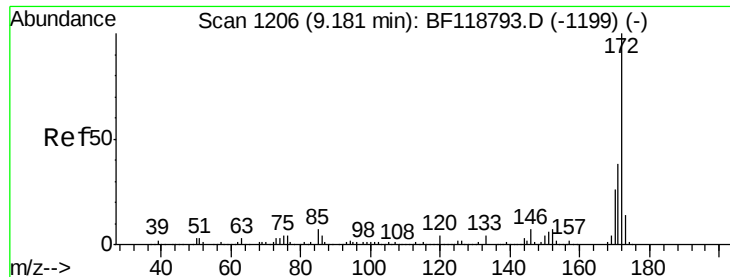
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#42
2,4,6-Tribromophenol
Concen: 19.766 ng
RT: 10.63 min Scan# 1453
Delta R.T. -0.01 min
Lab File: BF118901.D
Acq: 11 Feb 2020 23:27

Tgt Ion	Ratio	Resp	Lower	Upper
330	100			
332	96.7	77.3	115.9	
141	34.6	22.4	33.6#	





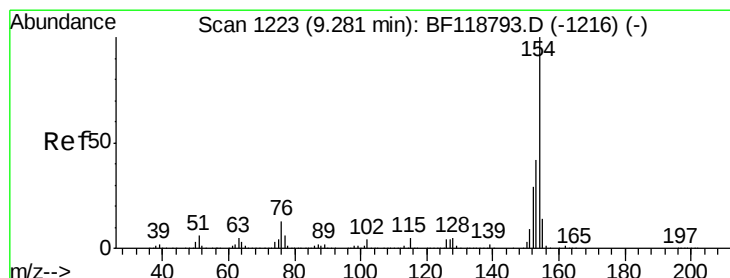
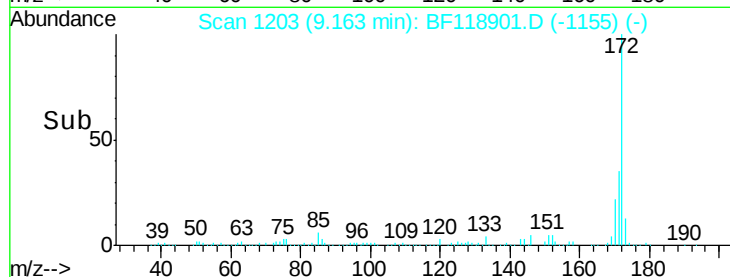
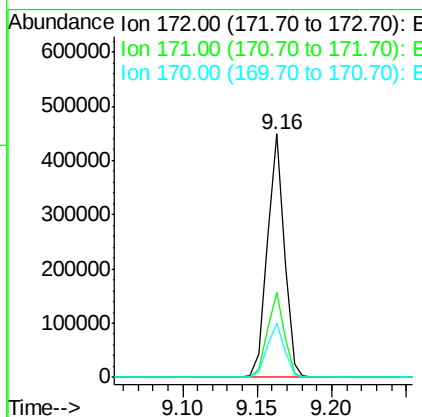
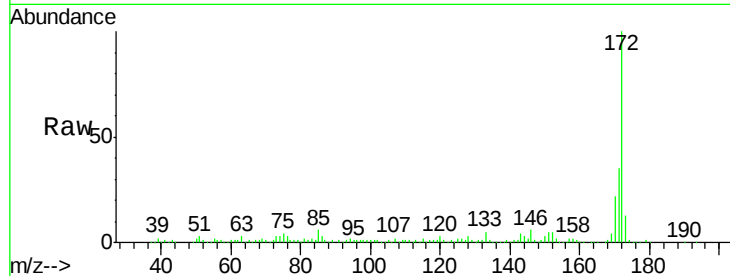
#45
2-Fluorobiphenyl
Concen: 16.794 ng
RT: 9.16 min Scan# 1203
Delta R.T. -0.02 min
Lab File: BF118901.D
Acq: 11 Feb 2020 23:27

Instrument :
BNA_F
ClientSampleId :
TP7-EP2-2

Tot Ion	Ratio	Resp Lower	Upper
172	100		
171	34.8	30.8	46.2
170	22.3	20.5	30.7

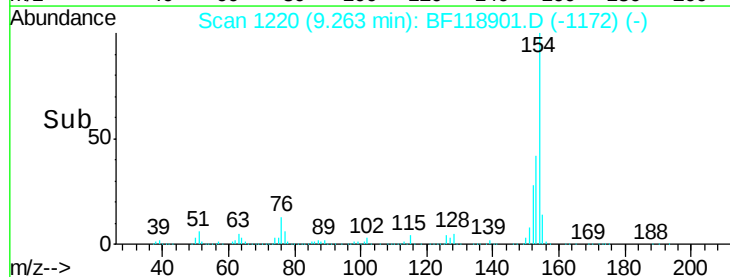
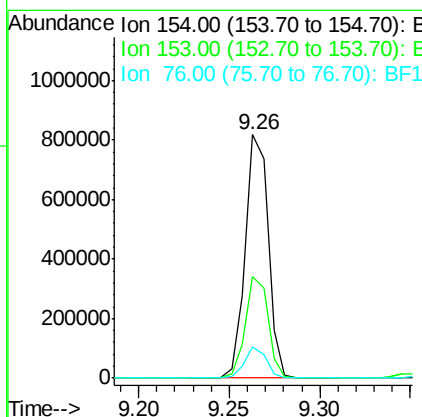
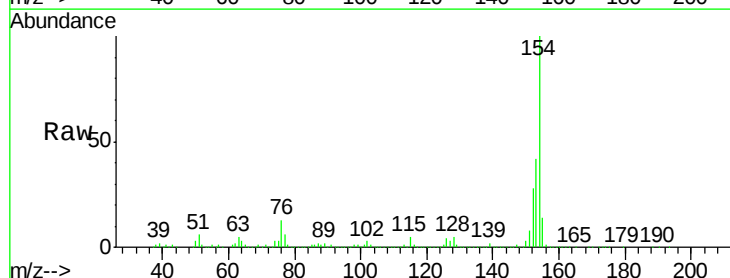
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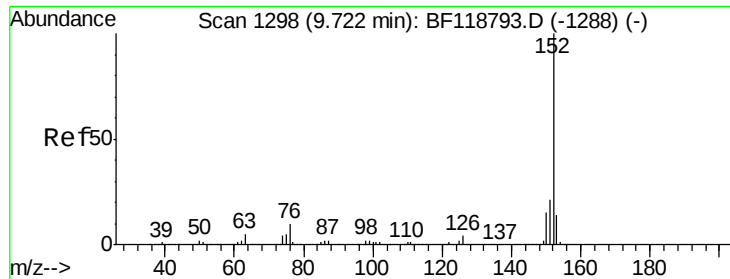
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#46
1,1'-Biphenyl
Concen: 27.927 ng
RT: 9.26 min Scan# 1220
Delta R.T. -0.02 min
Lab File: BF118901.D
Acq: 11 Feb 2020 23:27

Tgt Ion	Ratio	Resp Lower	Upper
154	100		
153	41.8	22.4	62.4
76	12.7	0.0	32.7





#49

Acenaphthylene

Concen: 49.316 ng

RT: 9.71 min Scan# 1296

Delta R.T. -0.01 min

Lab File: BF118901.D

Acq: 11 Feb 2020 23:27

Instrument :

BNA_F

ClientSampleId :

TP7-EP2-2

Tot Ion:152 Resp: 1529426

Ion Ratio Lower Upper

152 100

151 21.5 17.1 25.7

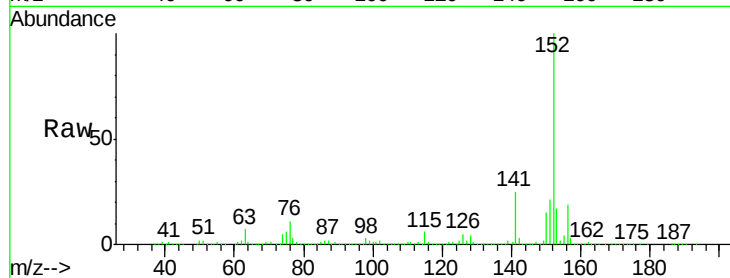
153 16.6 11.0 16.4#

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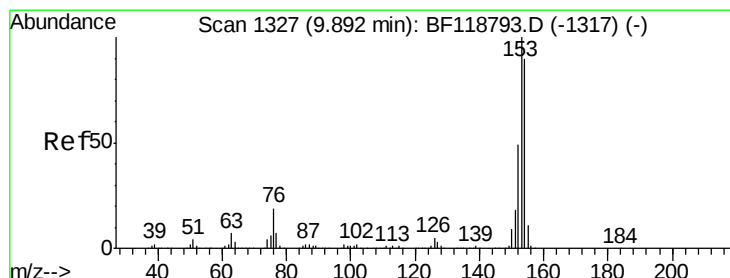
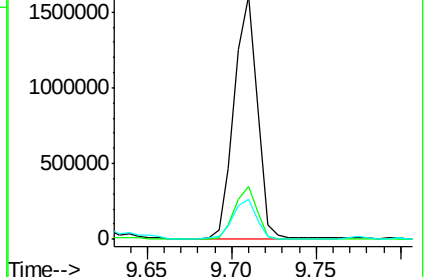
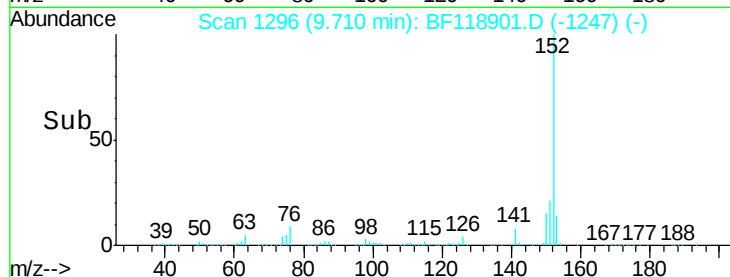
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Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#52

Acenaphthene

Concen: 16.186 ng

RT: 9.87 min Scan# 1324

Delta R.T. -0.02 min

Lab File: BF118901.D

Acq: 11 Feb 2020 23:27

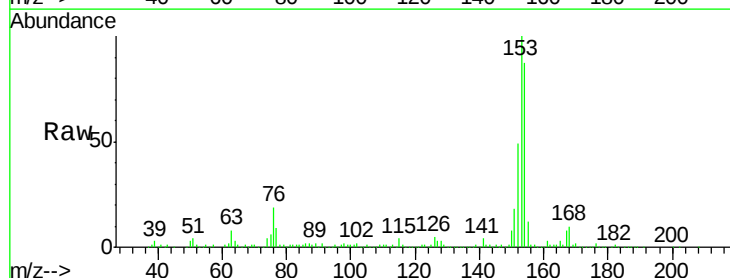
Tgt Ion:154 Resp: 330779

Ion Ratio Lower Upper

154 100

153 114.4 89.4 134.0

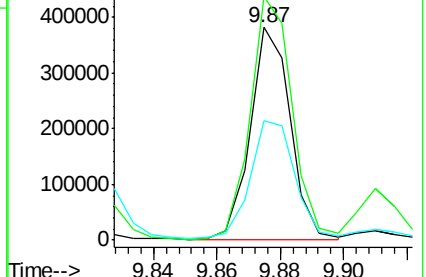
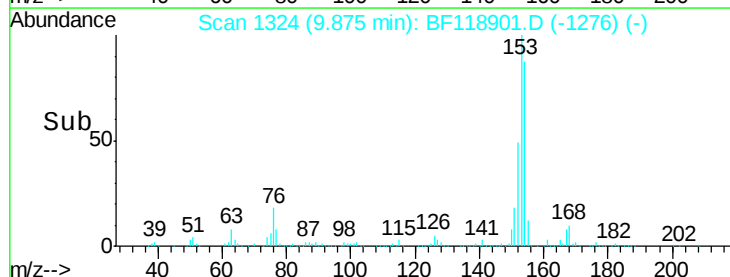
152 56.0 43.6 65.4

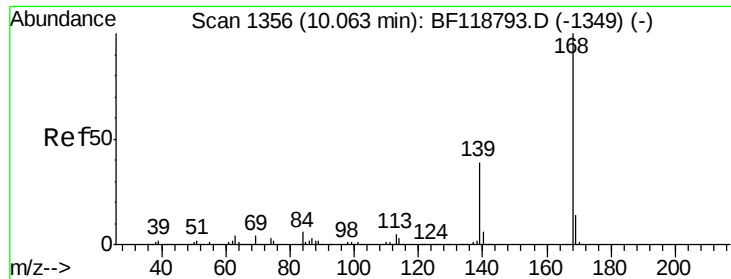


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





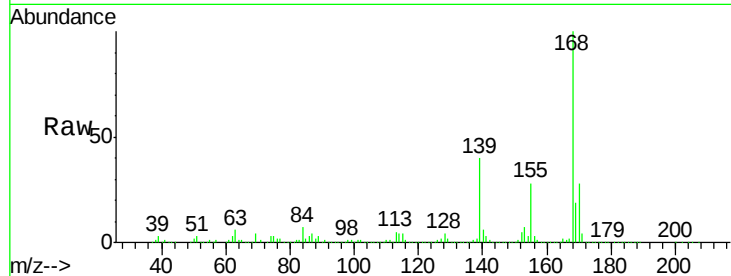
#55
Dibenzenofuran
Concen: 29.234 ng
RT: 10.05 min Scan# 1354
Delta R.T. -0.01 min
Lab File: BF118901.D
Acq: 11 Feb 2020 23:27

Instrument :
BNA_F
ClientSampled :
TP7-EP2-2

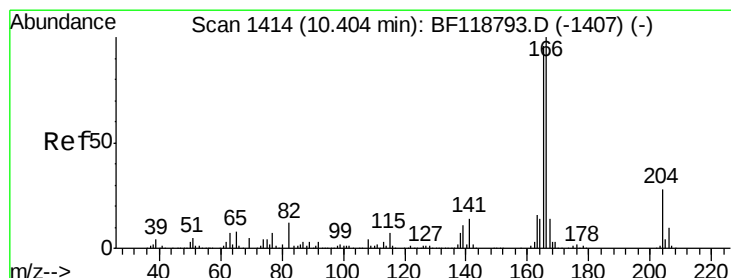
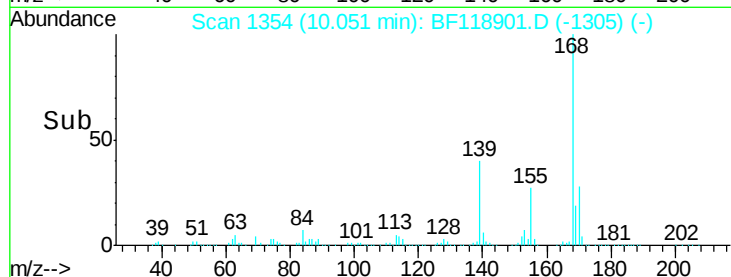
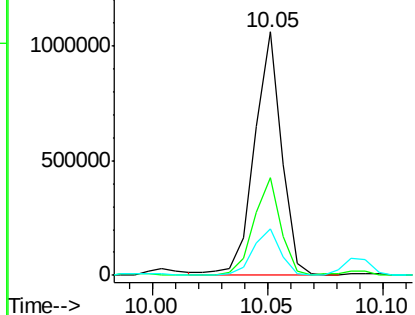
Tot Ion	Ratio	Lower	Upper
168	100		
139	40.2	31.6	47.4
169	18.9	11.4	17.2

Manual Integrations
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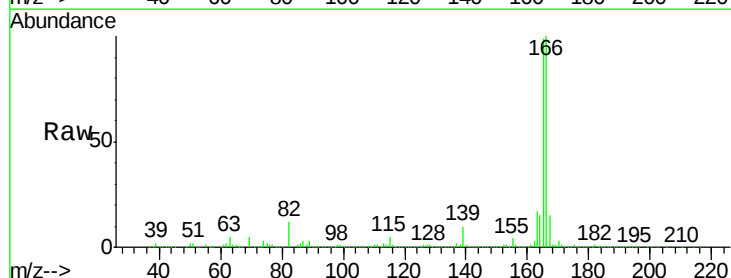


Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E

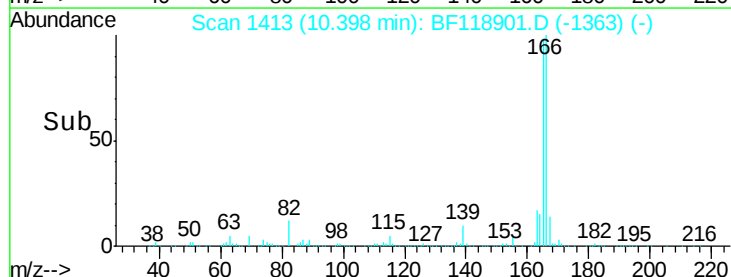
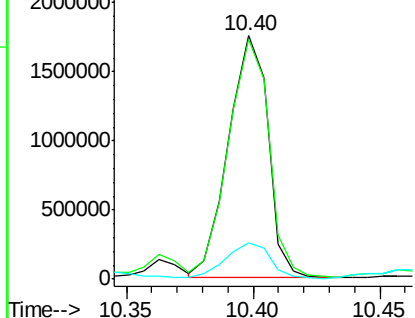


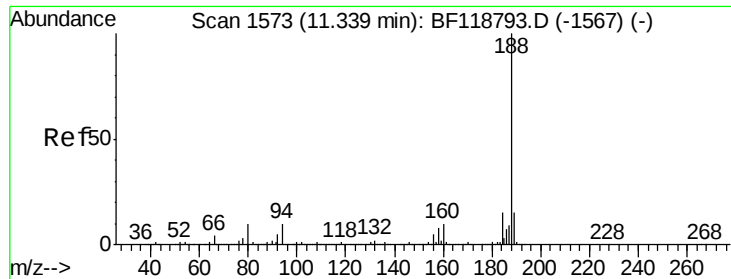
#58
Fluorene
Concen: 85.913 ng
RT: 10.40 min Scan# 1413
Delta R.T. -0.01 min
Lab File: BF118901.D
Acq: 11 Feb 2020 23:27

Tgt Ion	Ratio	Lower	Upper
166	100		
165	98.6	77.0	115.6
167	14.8	11.1	16.7



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





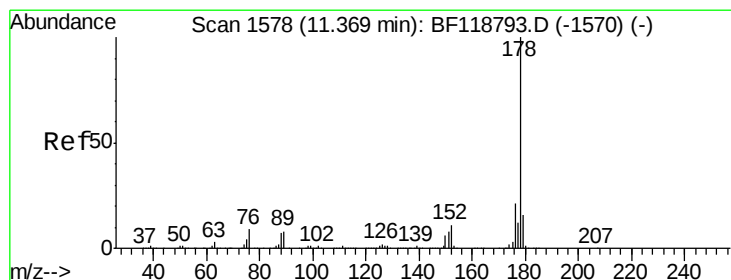
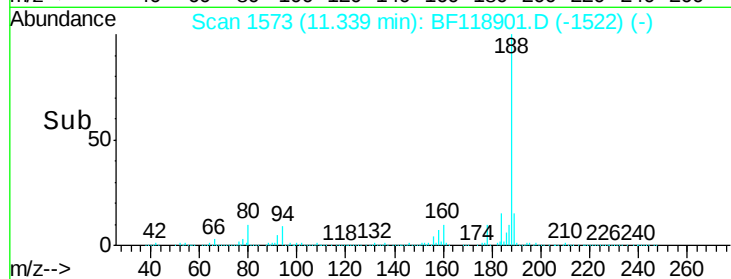
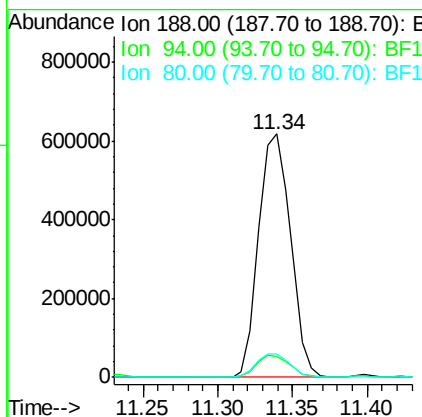
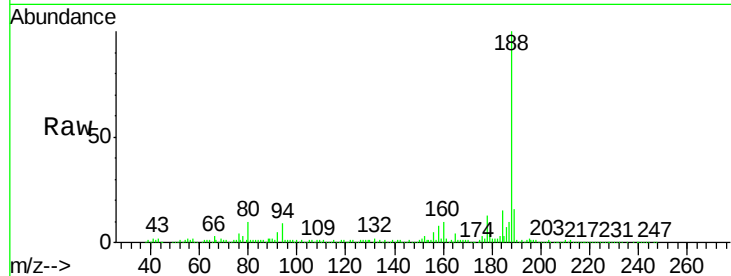
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.34 min Scan# 1573
Delta R.T. 0.00 min
Lab File: BF118901.D
Acq: 11 Feb 2020 23:27

Instrument :
BNA_F
ClientSampleId :
TP7-EP2-2

Tot Ion:	188	Resp:	909244
Ion Ratio	Lower	Upper	
188	100		
94	8.7	7.9	11.9
80	9.9	8.4	12.6

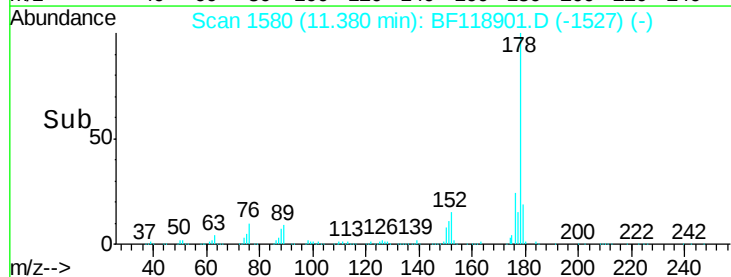
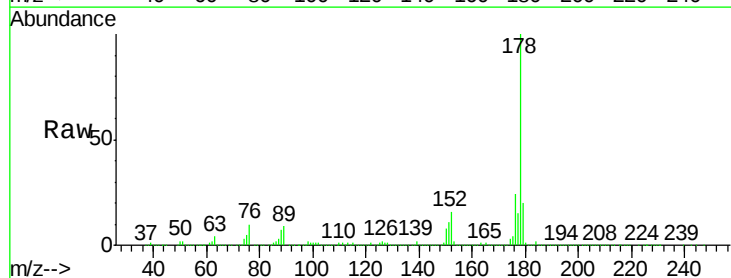
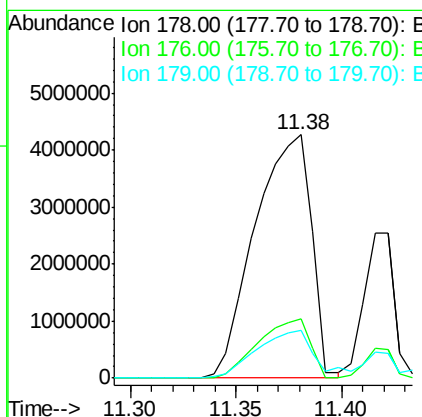
Manual Integrations
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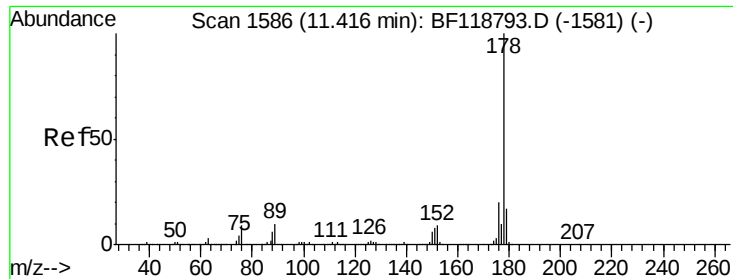
mohammad
2/12/2020 3:51:16 PM



#71
Phenanthrene
Concen: 176.322 ng
RT: 11.38 min Scan# 1580
Delta R.T. 0.01 min
Lab File: BF118901.D
Acq: 11 Feb 2020 23:27

Tgt Ion:	178	Resp:	7887971
Ion Ratio	Lower	Upper	
178	100		
176	24.4	16.6	24.8
179	19.6	13.2	19.8





#72

Anthracene

Concen: 52.840 ng

RT: 11.42 min Scan# 1587

Delta R.T. 0.01 min

Lab File: BF118901.D

Acq: 11 Feb 2020 23:27

Instrument :

BNA_F

ClientSampleId :

TP7-EP2-2

Tot Ion:178 Resp: 2351627

Ion Ratio Lower Upper

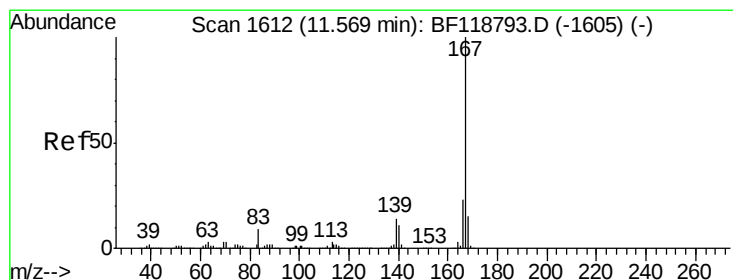
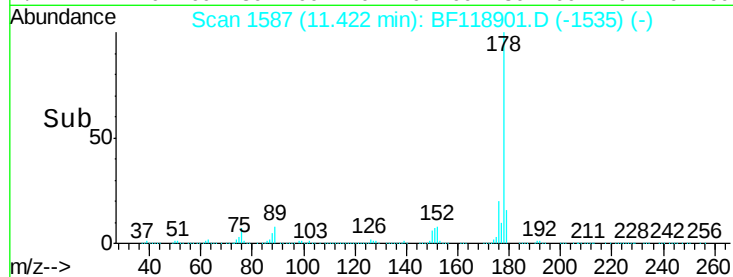
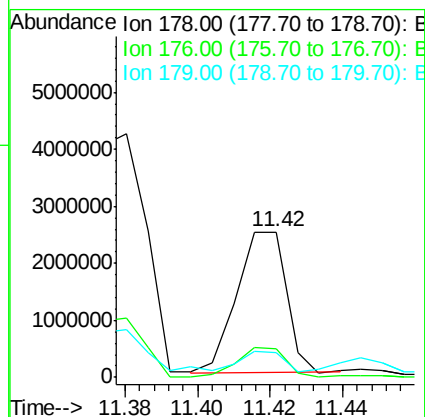
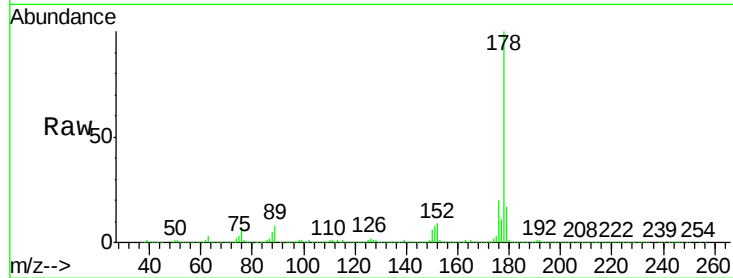
178 100

176 19.9 16.2 24.2

179 16.8 13.4 20.2

Manual Integrations
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#73

Carbazole

Concen: 14.470 ng

RT: 11.56 min Scan# 1611

Delta R.T. -0.01 min

Lab File: BF118901.D

Acq: 11 Feb 2020 23:27

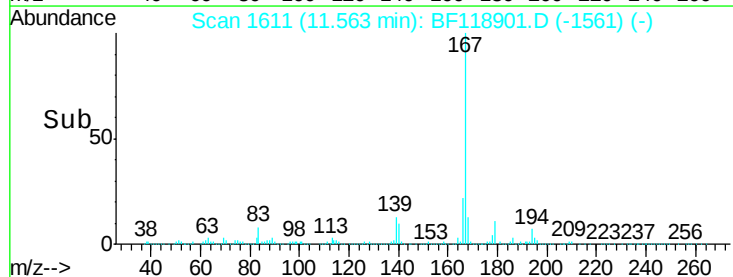
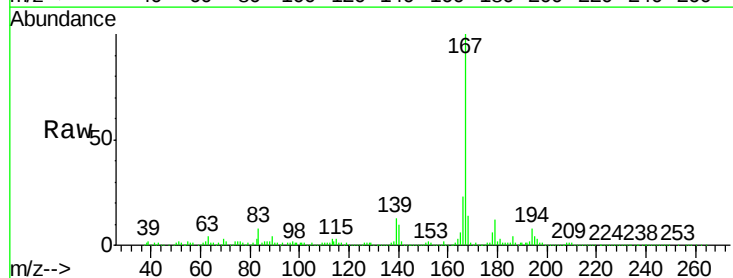
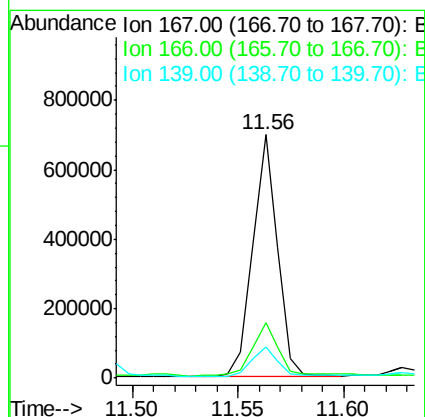
Tgt Ion:167 Resp: 565151

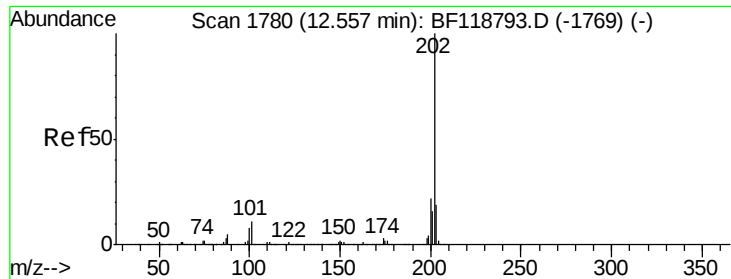
Ion Ratio Lower Upper

167 100

166 22.9 18.4 27.6

139 13.0 11.1 16.7





#75

Fluoranthene

Concen: 106.380 ng

RT: 12.56 min Scan# 1781

Delta R.T. 0.01 min

Lab File: BF118901.D

Acq: 11 Feb 2020 23:27

Instrument :

BNA_F

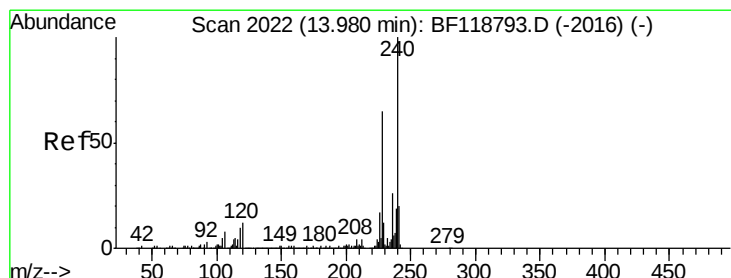
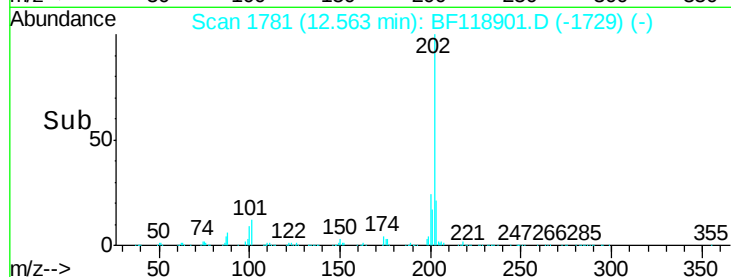
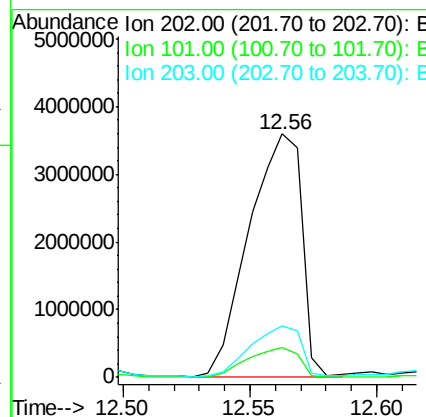
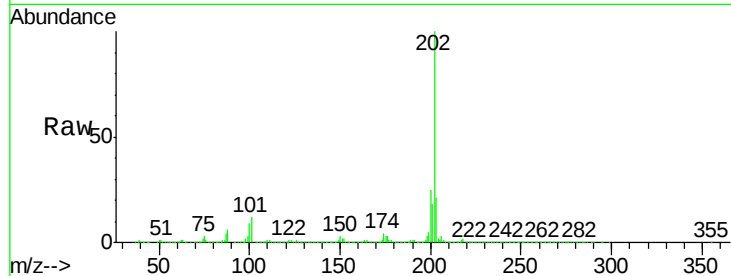
ClientSampleId :

TP7-EP2-2

Tot Ion:	202	Resp:	5196018
Ion	Ratio	Lower	Upper
202	100		
101	12.3	0.0	31.0
203	21.0	0.0	38.7

Manual Integrations
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#76

Chrysene-d12

Concen: 20.000 ng

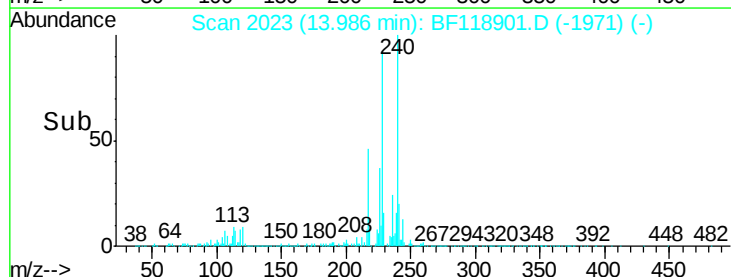
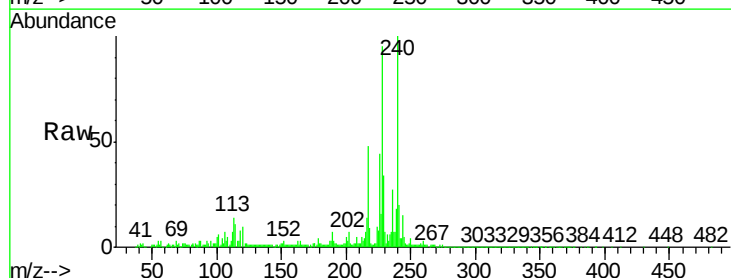
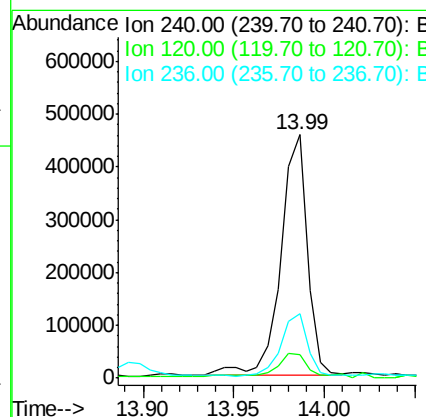
RT: 13.99 min Scan# 2023

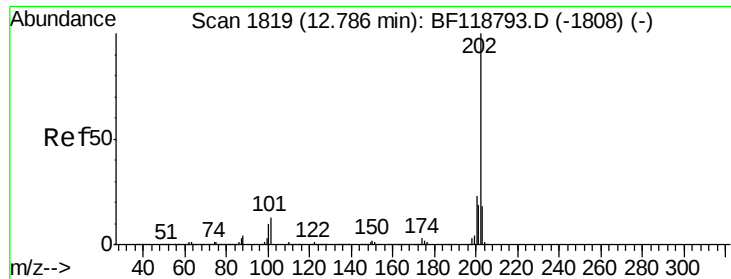
Delta R.T. 0.01 min

Lab File: BF118901.D

Acq: 11 Feb 2020 23:27

Tgt Ion:	240	Resp:	466492
Ion	Ratio	Lower	Upper
240	100		
120	9.6	9.4	14.0
236	26.7	21.0	31.6





#78

Pvrene

Concen: 184.497 ng

RT: 12.80 min Scan# 1821

Delta R.T. 0.01 min

Lab File: BF118901.D

Acq: 11 Feb 2020 23:27

Instrument :

BNA_F

ClientSampleId :

TP7-EP2-2

Tot Ion:202 Resp: 5904387

Ion Ratio Lower Upper

202 100

200 25.4 18.2 27.2

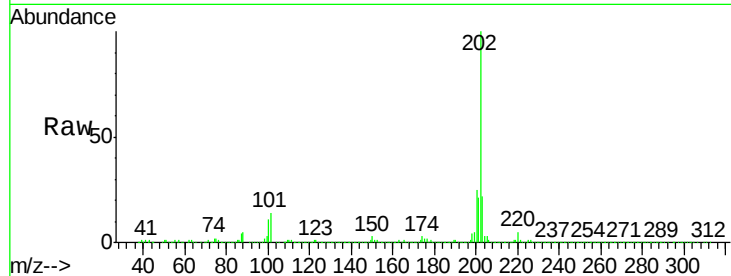
203 22.1 14.8 22.2

Manual Integrations

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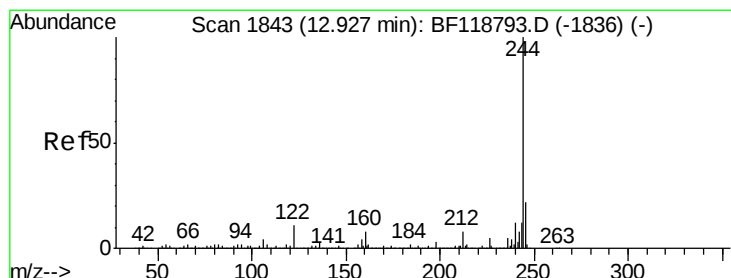
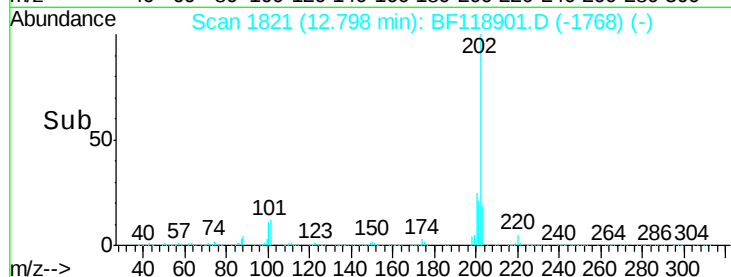
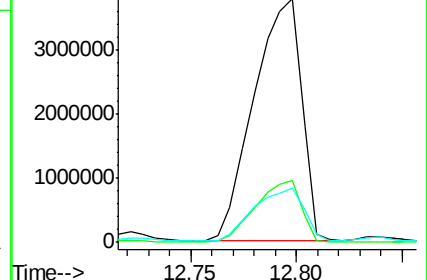
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Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#79

Terphenyl-d14

Concen: 25.626 ng

RT: 12.92 min Scan# 1841

Delta R.T. -0.01 min

Lab File: BF118901.D

Acq: 11 Feb 2020 23:27

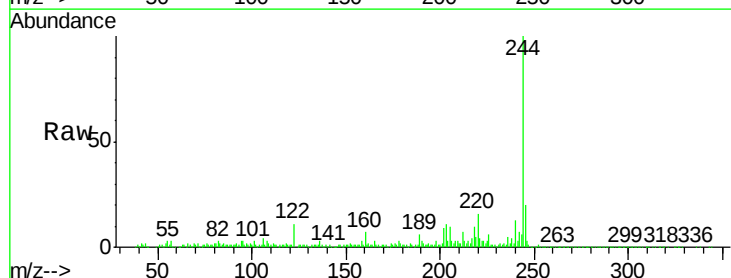
Tgt Ion:244 Resp: 581984

Ion Ratio Lower Upper

244 100

212 7.0 6.5 9.7

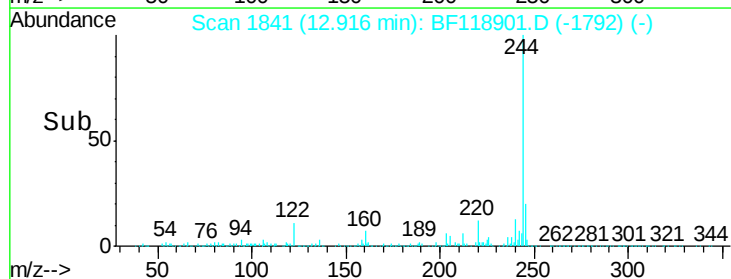
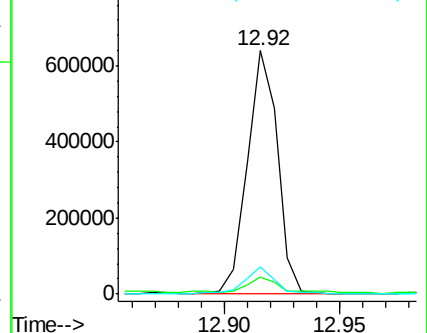
122 11.0 8.9 13.3

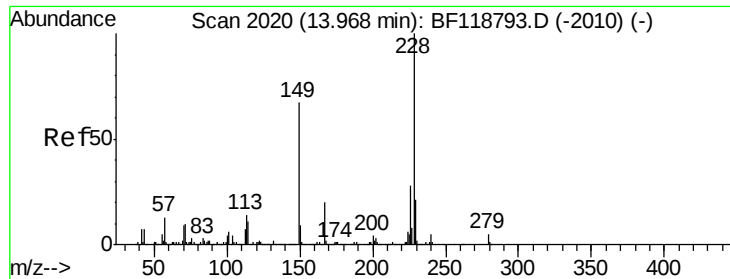


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





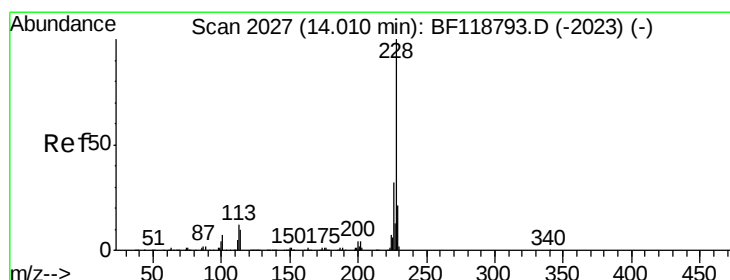
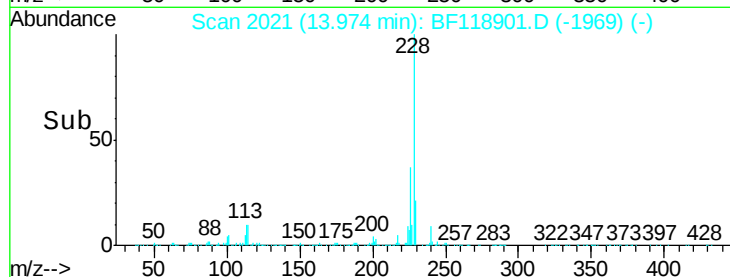
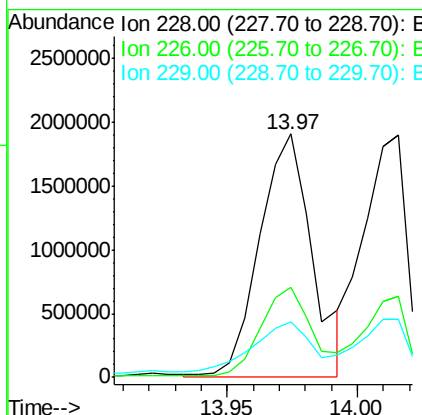
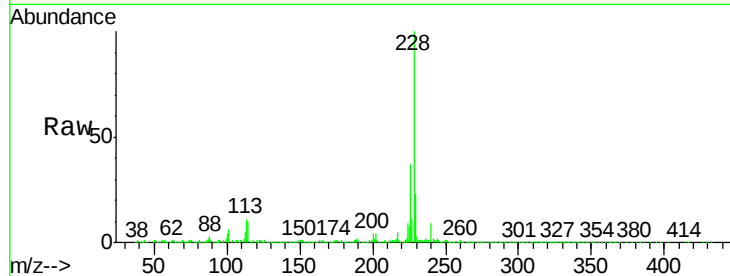
#81
Benzo(a)anthracene
Concen: 96.513 ng m
RT: 13.97 min Scan# 2021
Delta R.T. 0.01 min
Lab File: BF118901.D
Acq: 11 Feb 2020 23:27

Instrument :
BNA_F
ClientSampleId :
TP7-EP2-2

Tot Ion:228 Resp: 2679101
Ion Ratio Lower Upper
228 100
226 37.2 22.7 34.1#
229 22.6 16.6 25.0

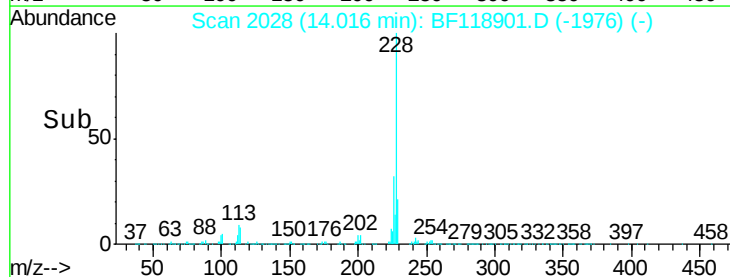
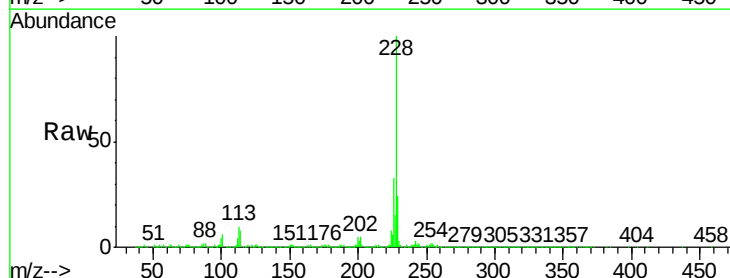
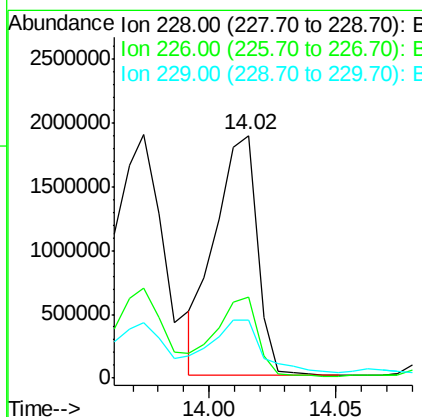
Manual Integrations
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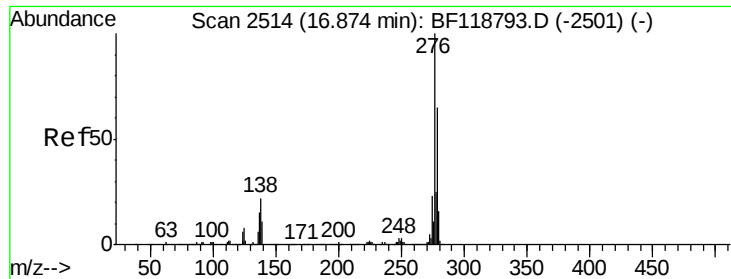
mohammad
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#83
Chrysene
Concen: 78.503 ng
RT: 14.02 min Scan# 2028
Delta R.T. 0.01 min
Lab File: BF118901.D
Acq: 11 Feb 2020 23:27

Tgt Ion:228 Resp: 2187137
Ion Ratio Lower Upper
228 100
226 33.2 25.4 38.0
229 23.7 16.9 25.3





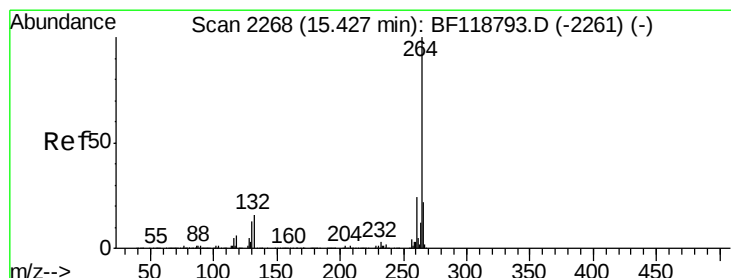
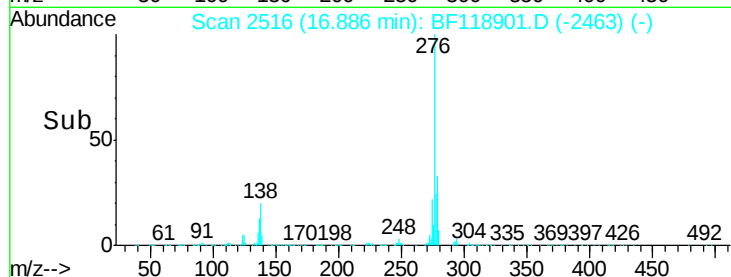
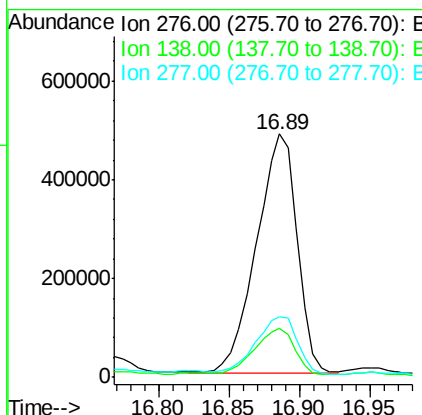
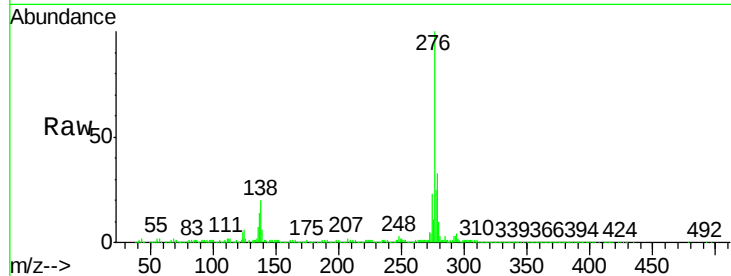
#86
Indeno(1,2,3-cd)pyrene
Concen: 34.630 ng
RT: 16.89 min Scan# 2516
Delta R.T. 0.01 min
Lab File: BF118901.D
Acq: 11 Feb 2020 23:27

Instrument :
BNA_F
ClientSampleId :
TP7-EP2-2

Tot Ion	Ratio	Resp	Lower	Upper
276	100	969383		
138	20.2		18.3	27.5
277	25.0		20.2	30.4

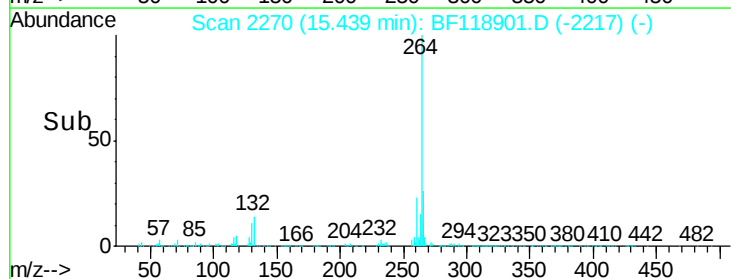
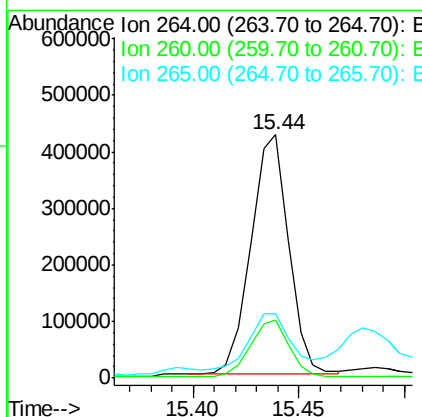
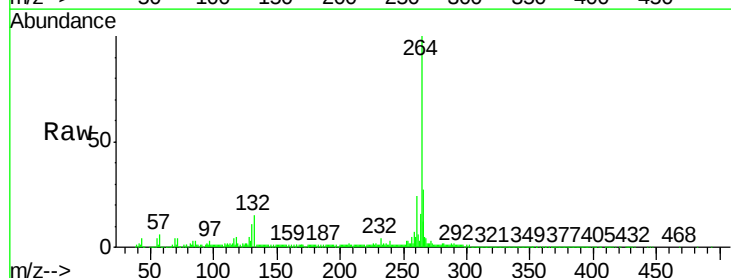
Manual Integrations
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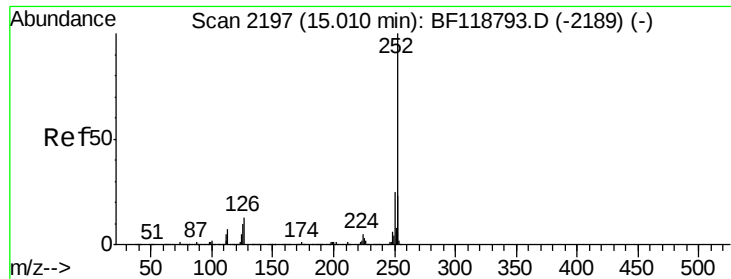
mohammad
2/12/2020 3:51:16 PM



#87
Perylene-d12
Concen: 20.000 ng
RT: 15.44 min Scan# 2270
Delta R.T. 0.01 min
Lab File: BF118901.D
Acq: 11 Feb 2020 23:27

Tgt Ion	Ratio	Resp	Lower	Upper
264	100	527190		
260	23.9		19.1	28.7
265	26.6		17.2	25.8#





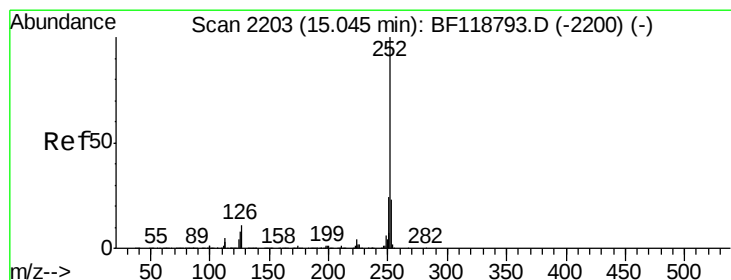
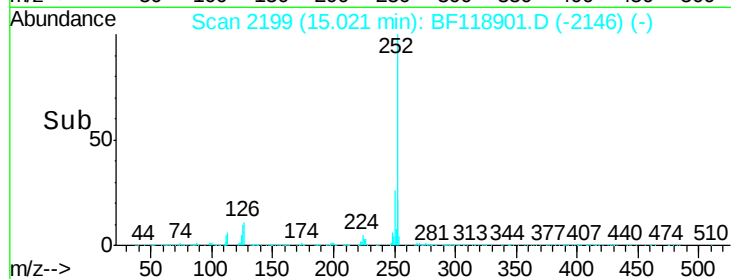
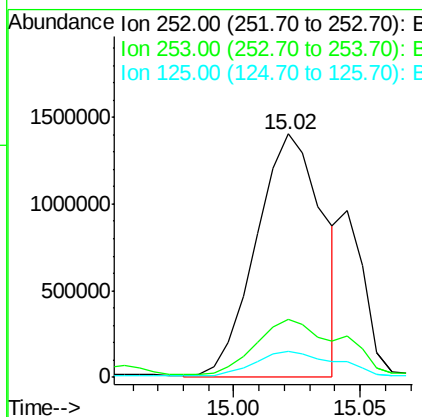
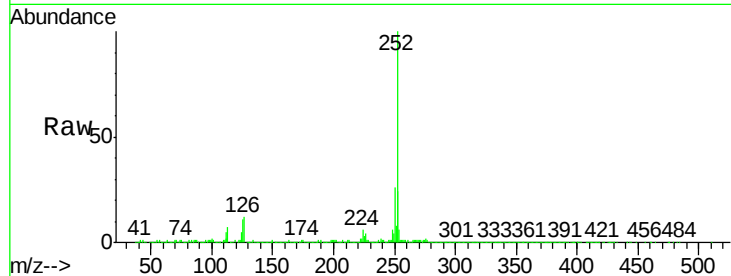
#88
Benzo(b)fluoranthene
Concen: 79.191 ng m
RT: 15.02 min Scan# 2199
Delta R.T. 0.01 min
Lab File: BF118901.D
Acq: 11 Feb 2020 23:27

Instrument :
BNA_F
ClientSampleId :
TP7-EP2-2

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.9	18.4	27.6
125	10.8	8.1	12.1

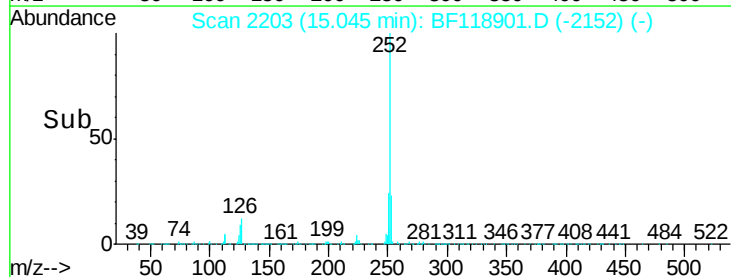
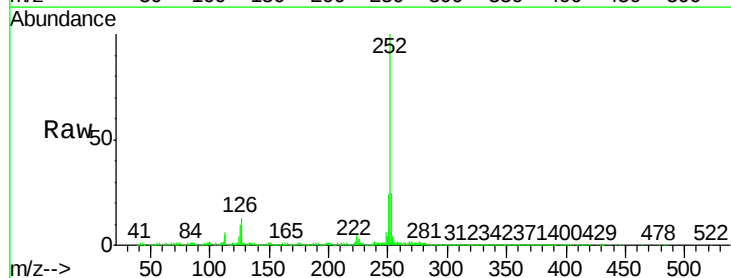
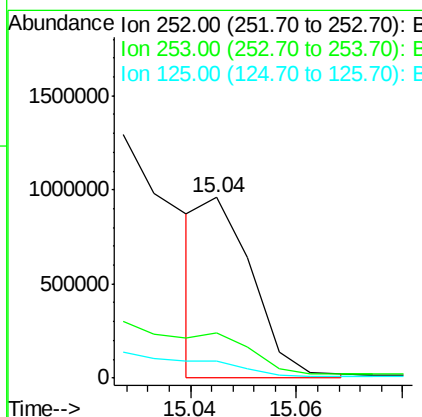
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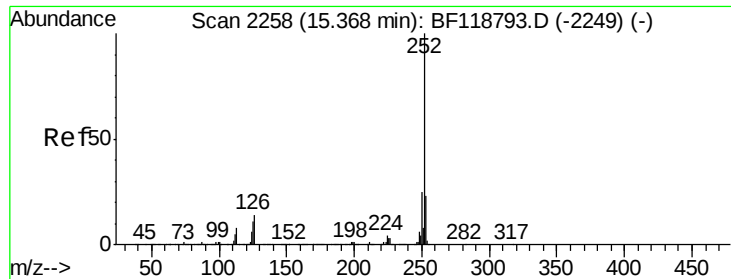
mohammad
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#89
Benzo(k)fluoranthene
Concen: 22.244 ng m
RT: 15.04 min Scan# 2203
Delta R.T. 0.00 min
Lab File: BF118901.D
Acq: 11 Feb 2020 23:27

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.7	18.2	27.4
125	9.7	7.0	10.6





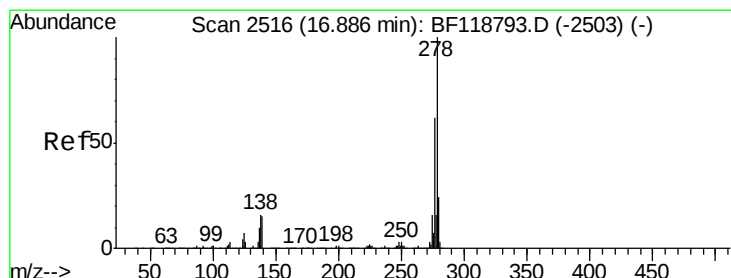
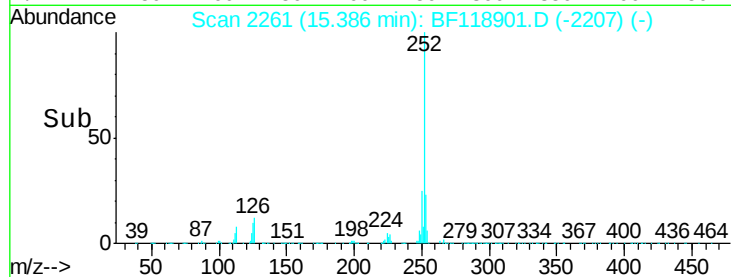
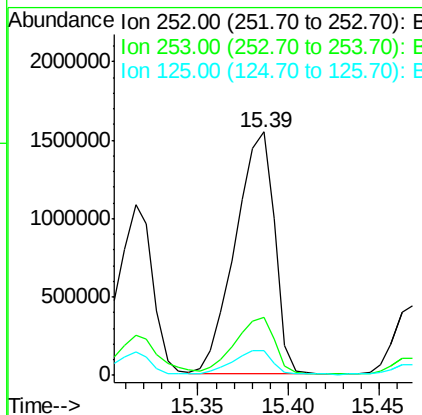
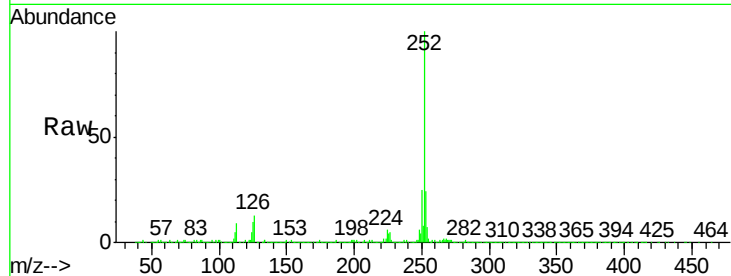
#90
Benzo(a)pyrene
Concen: 82.835 ng
RT: 15.39 min Scan# 2261
Delta R.T. 0.02 min
Lab File: BF118901.D
Acq: 11 Feb 2020 23:27

Instrument :
BNA_F
ClientSampleId :
TP7-EP2-2

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.6	18.1	27.1
125	10.2	8.7	13.1

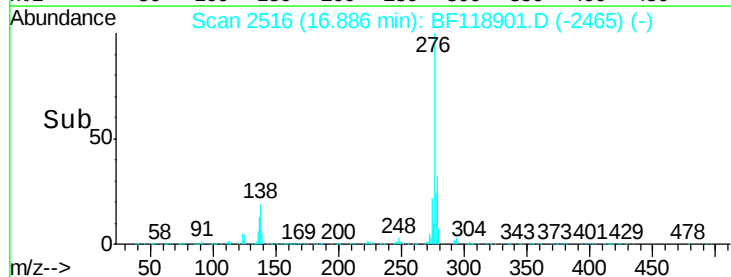
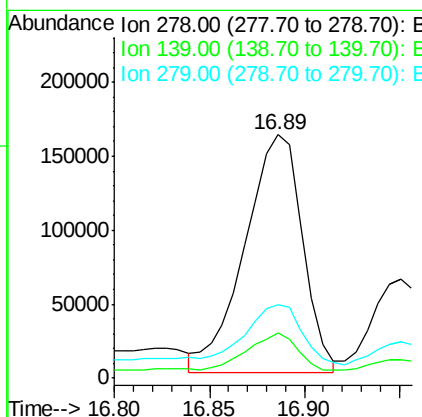
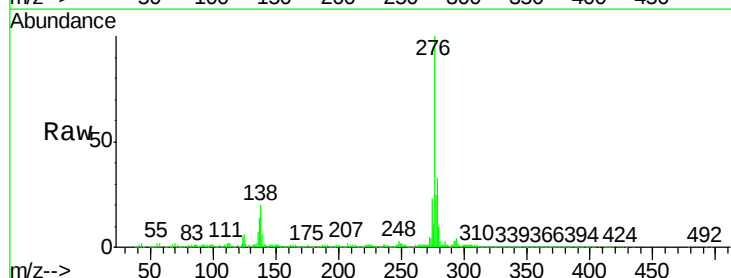
Manual Integrations
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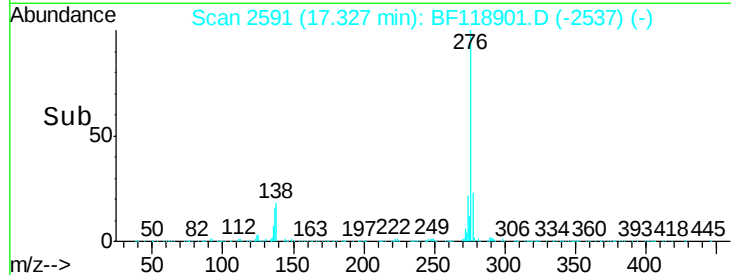
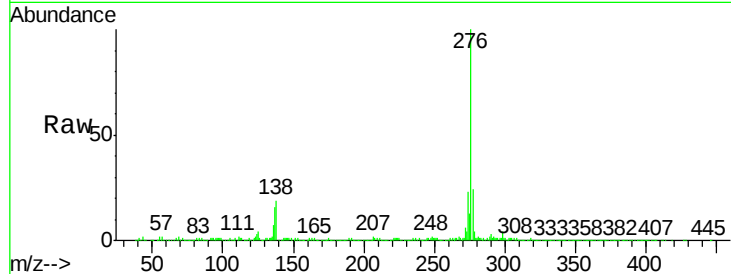
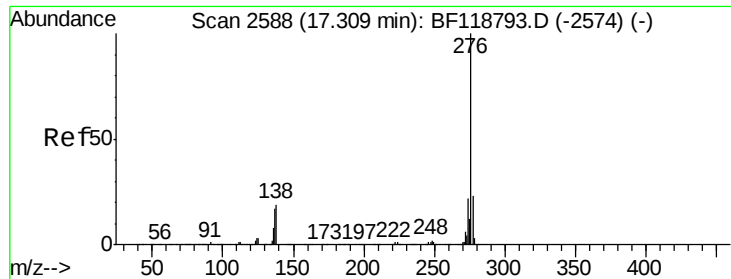
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#91
Dibenzo(a,h)anthracene
Concen: 13.662 ng m
RT: 16.89 min Scan# 2516
Delta R.T. 0.00 min
Lab File: BF118901.D
Acq: 11 Feb 2020 23:27

Tgt Ion	Ratio	Lower	Upper
278	100		
139	18.7	12.3	18.5#
279	30.1	19.1	28.7#





#92
 Benzo(a,h,i)perylene
 Concen: 39.672 ng
 RT: 17.33 min Scan# 2591
 Delta R.T. 0.02 min
 Lab File: BF118901.D
 Acq: 11 Feb 2020 23:27

Tot Ion:	276	Resp:	948211
Ion Ratio	Lower	Upper	
276	100		
277	23.9	18.7	28.1
138	18.8	15.4	23.2

Instrument :
 BNA_F
 ClientSampleId :
 TP7-EP2-2

Manual Integrations
 APPROVED

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