

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021120\
 Data File : BF118905.D
 Acq On : 12 Feb 2020 1:21
 Operator : CG/JU
 Sample : L1468-03DL 25X
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP10-EP1-2.5DL

Manual Integrations
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Quant Time: Feb 12 08:22:01 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	197125	20.00	ng	-0.01
21) Naphthalene-d8	8.09	136	797529	20.00	ng	-0.01
39) Acenaphthene-d10	9.85	164	465959	20.00	ng	-0.01
64) Phenanthrene-d10	11.33	188	904429	20.00	ng	-0.01
76) Chrysene-d12	13.97	240	659596	20.00	ng	-0.01
87) Perylene-d12	15.42	264	663405	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.42	112	57653	5.54	ng	-0.01
7) Phenol-d6	6.44	99	57784	4.47	ng	-0.01
23) Nitrobenzene-d5	7.36	82	35118	2.62	ng	-0.02
42) 2,4,6-Tribromophenol	10.63	330	20590	3.69	ng	-0.01
45) 2-Fluorobiphenyl	9.16	172	95281	3.66	ng	-0.02
79) Terphenyl-d14	12.91	244	172273	5.36	ng	-0.02
Target Compounds						Qvalue
31) Naphthalene	8.12	128	2600078	71.282	ng	99
37) 2-Methylnaphthalene	8.80	142	768961	30.397	ng	99
38) 1-Methylnaphthalene	8.90	142	560848	23.567	ng	100
46) 1,1'-Biphenyl	9.26	154	182160	5.651	ng	97
49) Acenaphthylene	9.70	152	238441	6.163	ng	# 96
52) Acenaphthene	9.87	154	200327	7.858	ng	98
55) Dibenzofuran	10.05	168	223200	6.058	ng	# 96
58) Fluorene	10.39	166	500364	18.051	ng	97
71) Phenanthrene	11.36	178	2107336	47.357	ng	99
72) Anthracene	11.40	178	542886	12.263	ng	96
73) Carbazole	11.56	167	197032	5.072	ng	97
75) Fluoranthene	12.54	202	1648874	33.938	ng	99
78) Pylene	12.77	202	1689974	37.348	ng	99
81) Benzo(a)anthracene	13.96	228	537588m	13.697	ng	
83) Chrysene	13.99	228	464076	11.781	ng	96
86) Indeno(1,2,3-cd)pyrene	16.86	276	149595	3.780	ng	96
88) Benzo(b)fluoranthene	15.00	252	444646m	10.801	ng	
89) Benzo(k)fluoranthene	15.02	252	158423m	4.419	ng	
90) Benzo(a)pyrene	15.36	252	400571	11.370	ng	99
92) Benzo(a,h,i)perylene	17.29	276	134729	4.479	ng	98

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

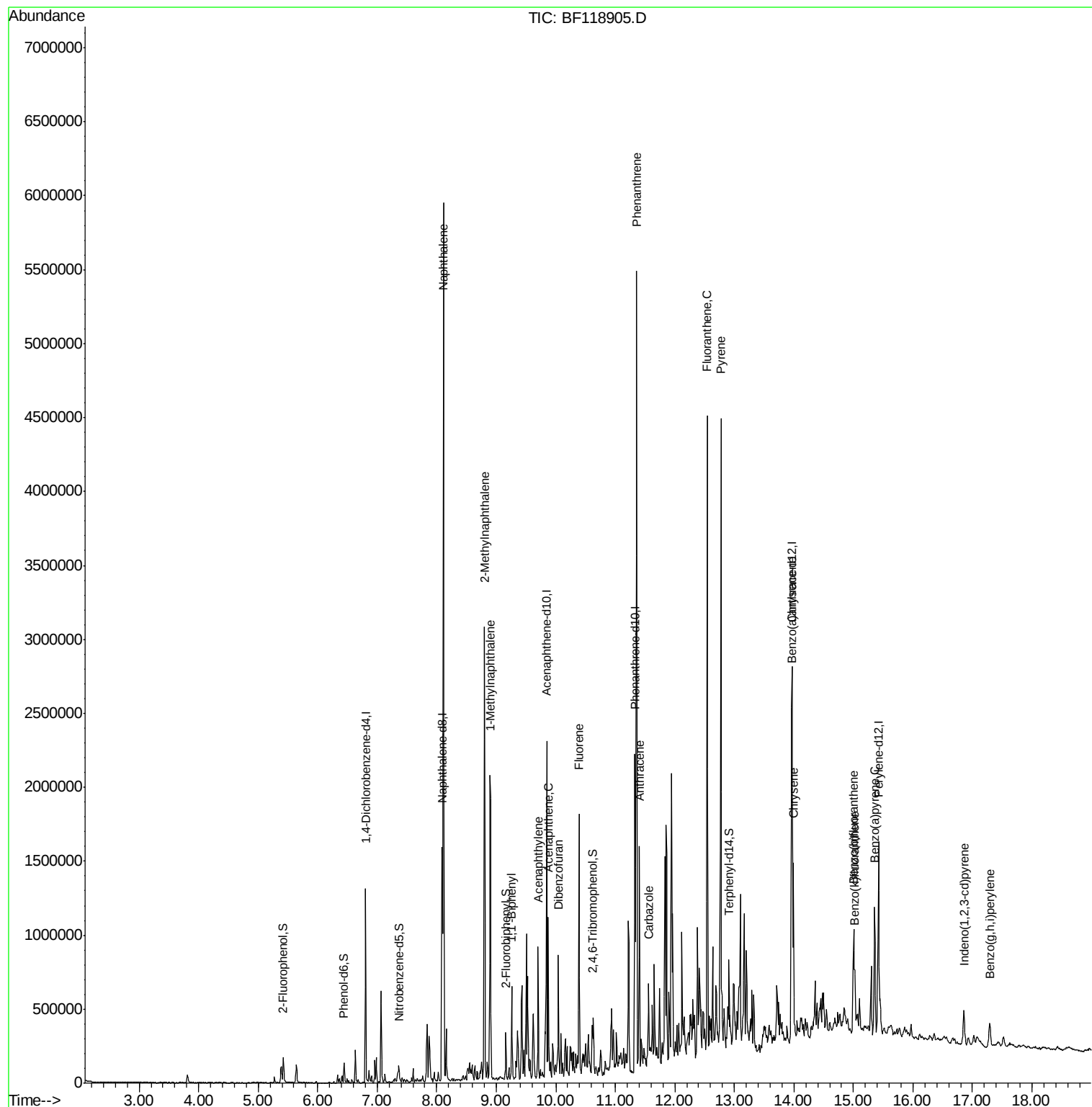
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021120\
Data File : BF118905.D
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ALS Vial : 22 Sample Multiplier: 1

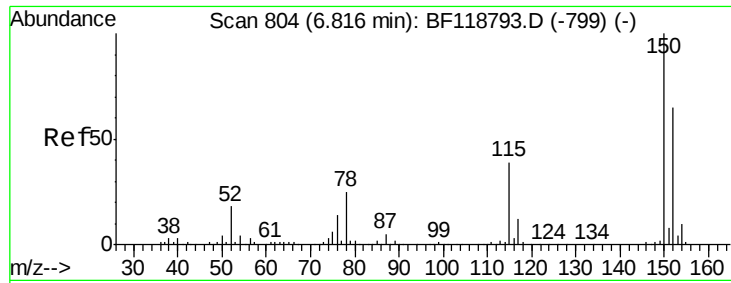
Instrument :
BNA_F
ClientSampled :
TP10-EP1-2.5DL

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Quant Time: Feb 12 08:22:01 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





#1

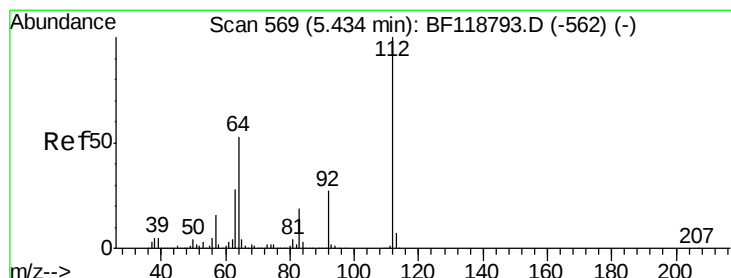
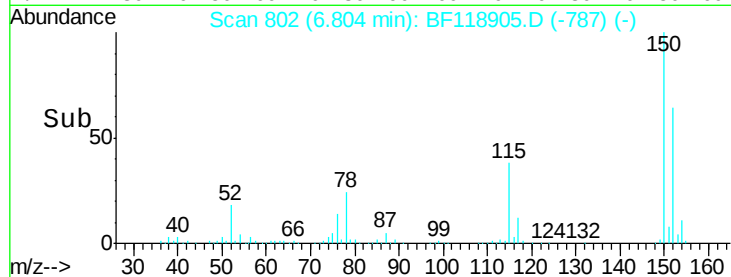
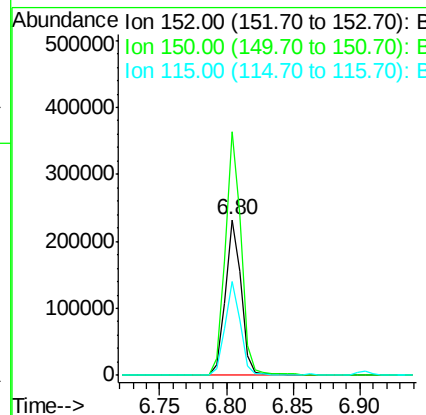
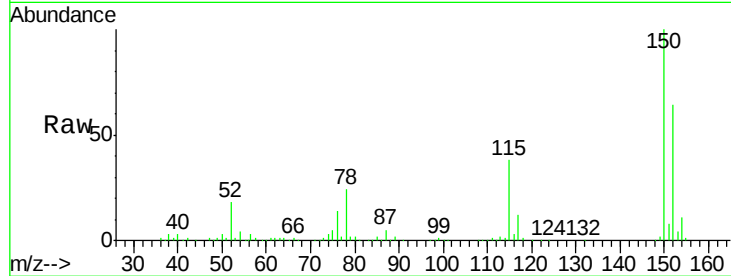
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.80 min Scan# 802
Delta R.T. -0.01 min
Lab File: BF118905.D
Acq: 12 Feb 2020 1:21

Instrument :
BNA_F
ClientSampleId :
TP10-EP1-2.5DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	156.5	123.6	185.4
115	60.1	48.2	72.2

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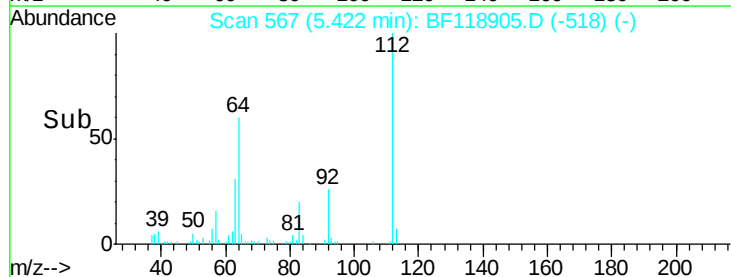
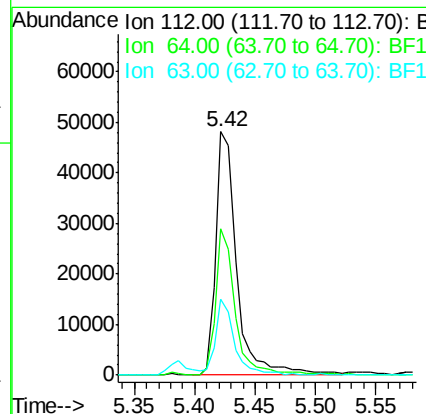
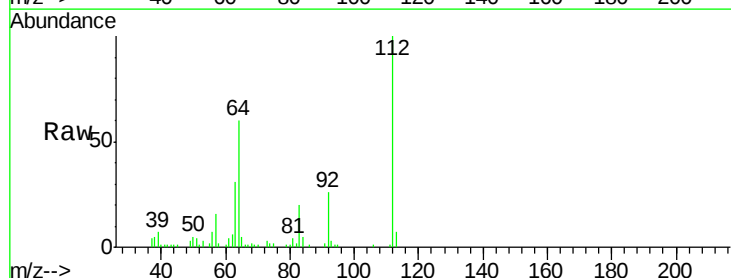
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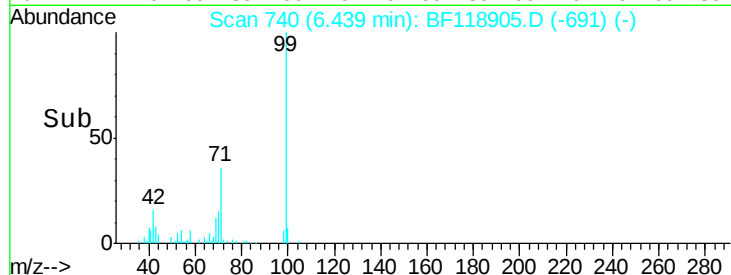
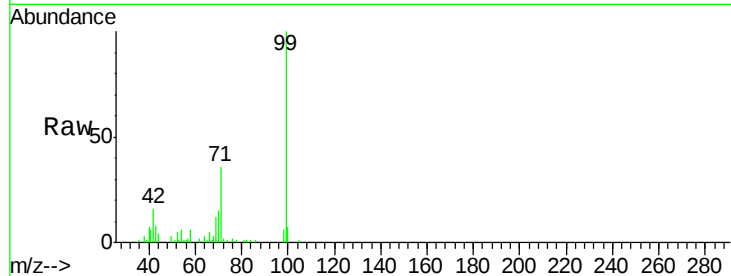
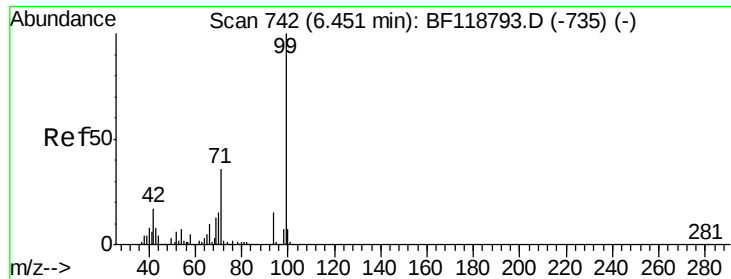


#5

2-Fluorophenol
Concen: 5.536 ng
RT: 5.42 min Scan# 567
Delta R.T. -0.01 min
Lab File: BF118905.D
Acq: 12 Feb 2020 1:21

Tgt Ion	Ratio	Lower	Upper
112	100		
64	60.3	42.6	63.8
63	31.3	22.2	33.4





#7

Phenol-d6

Concen: 4.470 ng

RT: 6.44 min Scan# 740

Delta R.T. -0.01 min

Lab File: BF118905.D

Acq: 12 Feb 2020 1:21

Tot Ion	Ion	Ratio	Resp	Lower	Upper
99	100		57784		
42	15.5	13.4	20.0		
71	35.7	29.0	43.6		

Instrument :

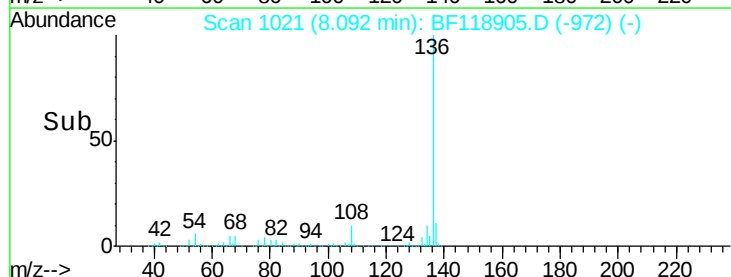
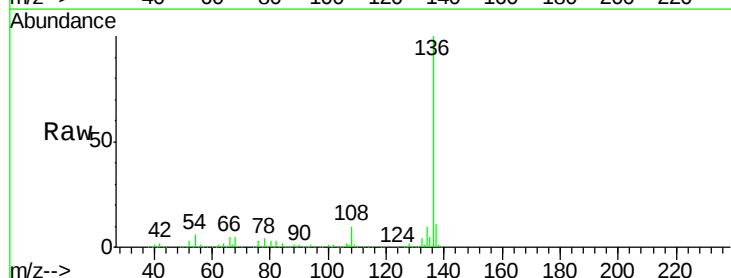
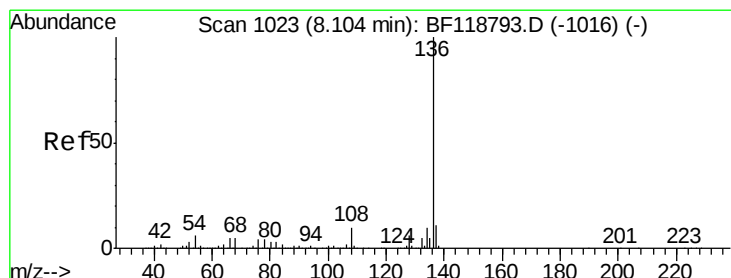
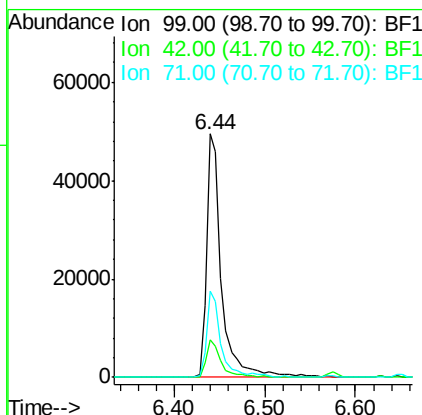
BNA_F

ClientSampleId :

TP10-EP1-2.5DL

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#21

Naphthalene-d8

Concen: 20.000 ng

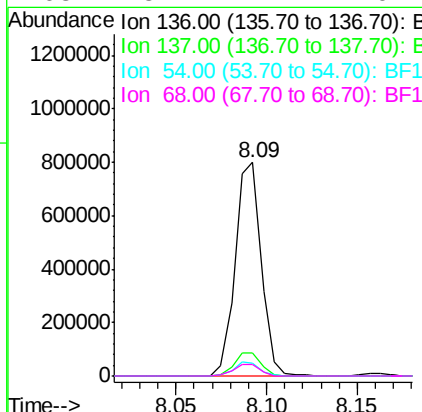
RT: 8.09 min Scan# 1021

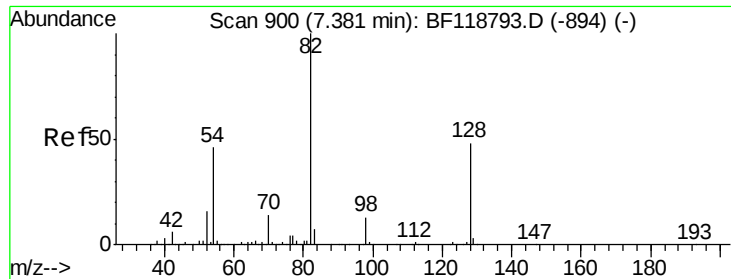
Delta R.T. -0.01 min

Lab File: BF118905.D

Acq: 12 Feb 2020 1:21

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
136	100		797529		
137	11.0	8.7	13.1		
54	6.2	5.0	7.6		
68	5.2	4.2	6.4		





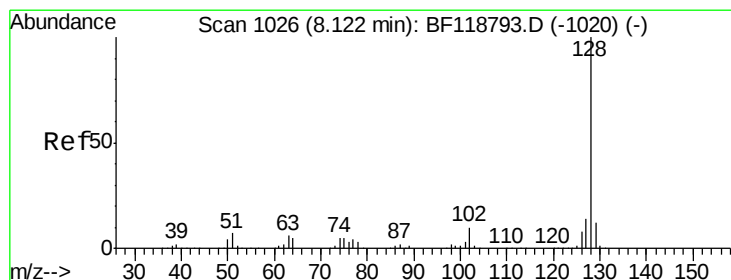
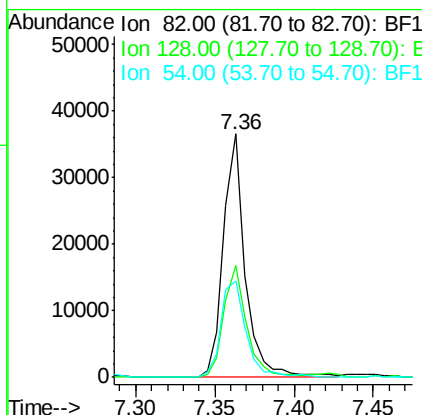
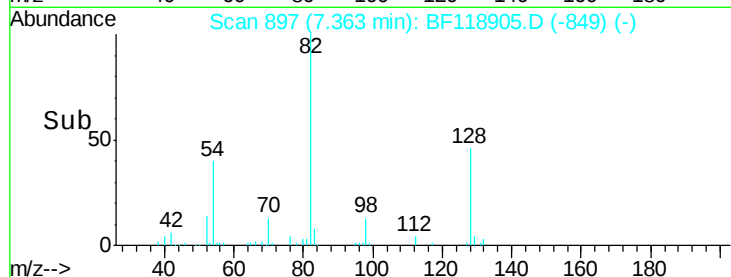
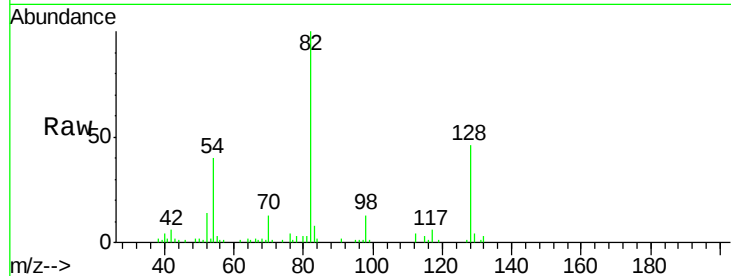
#23
Nitrobenzene-d5
Concen: 2.625 ng
RT: 7.36 min Scan# 897
Delta R.T. -0.02 min
Lab File: BF118905.D
Acq: 12 Feb 2020 1:21

Instrument :
BNA_F
ClientSampleId :
TP10-EP1-2.5DL

Tot Ion	82	Resp	35118
Ion	Ratio	Lower	Upper
82	100		
128	45.9	38.5	57.7
54	39.8	36.7	55.1

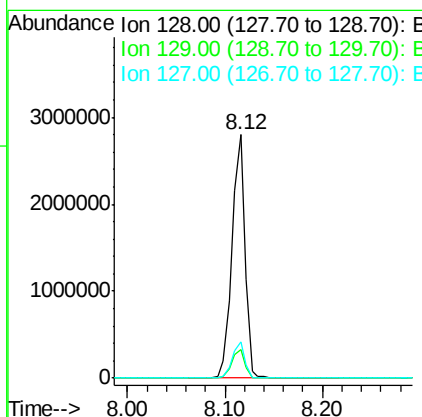
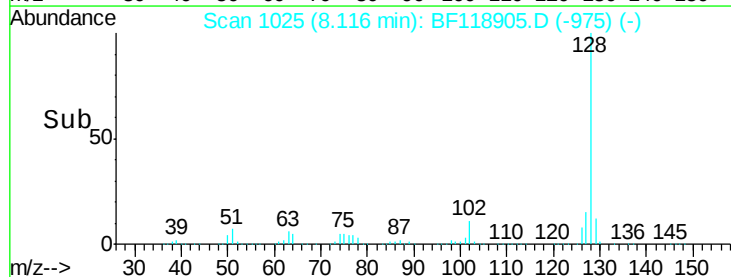
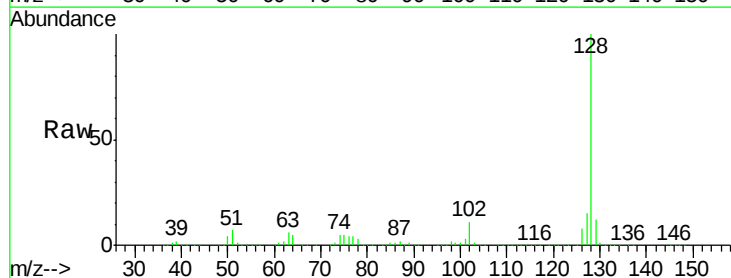
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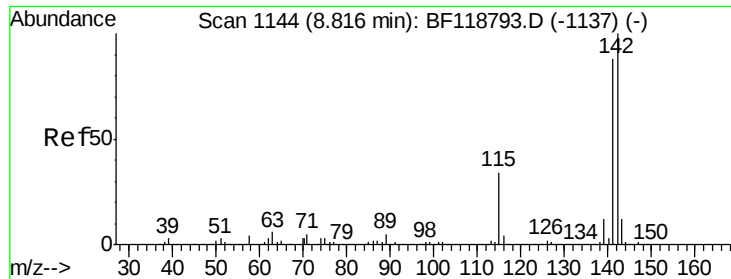
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#31
Naphthalene
Concen: 71.282 ng
RT: 8.12 min Scan# 1025
Delta R.T. -0.01 min
Lab File: BF118905.D
Acq: 12 Feb 2020 1:21

Tgt Ion	128	Resp	2600078
Ion	Ratio	Lower	Upper
128	100		
129	12.0	9.4	14.2
127	14.8	11.3	16.9





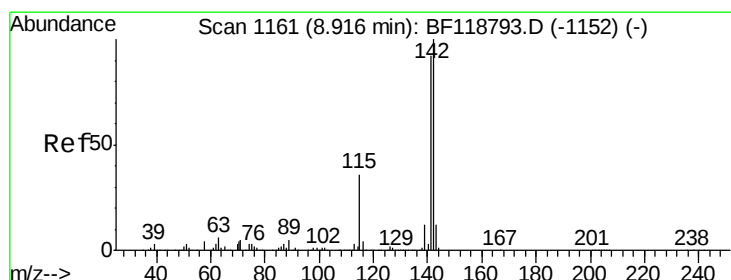
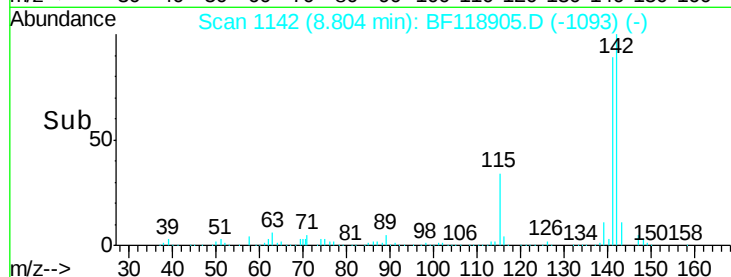
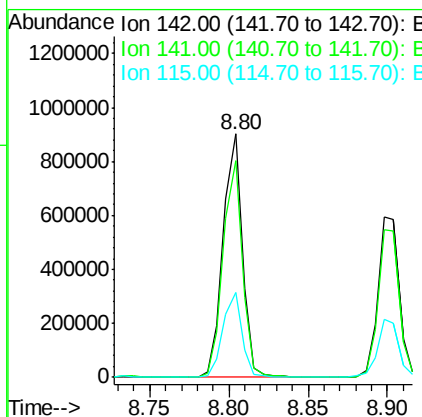
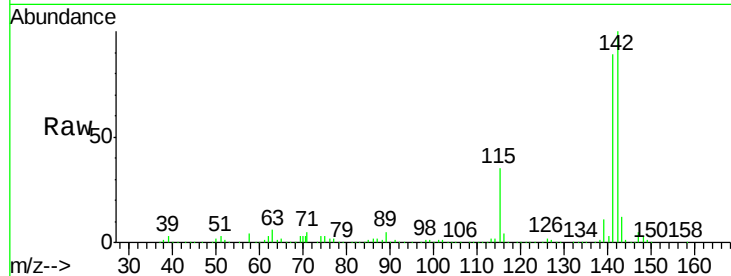
#37
2-Methylnaphthalene
Concen: 30.397 ng
RT: 8.80 min Scan# 1142
Delta R.T. -0.01 min
Lab File: BF118905.D
Acq: 12 Feb 2020 1:21

Instrument :
BNA_F
ClientSampleId :
TP10-EP1-2.5DL

Tot Ion	Ratio	Lower	Upper
142	100		
141	88.9	70.1	105.1
115	34.7	27.3	40.9

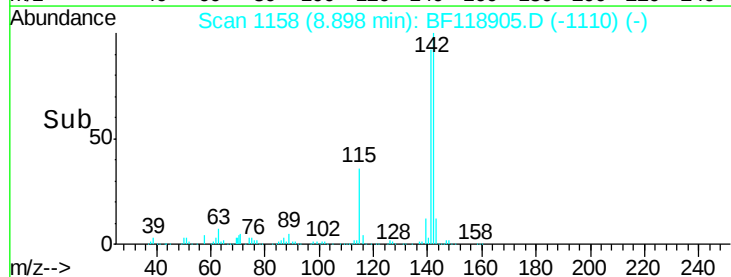
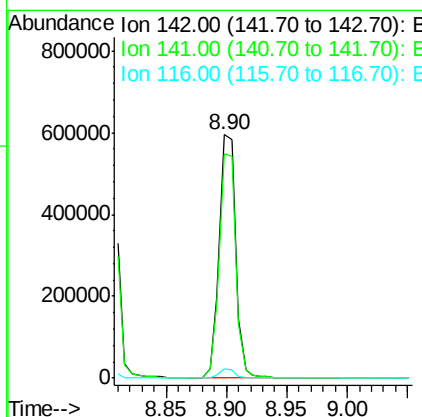
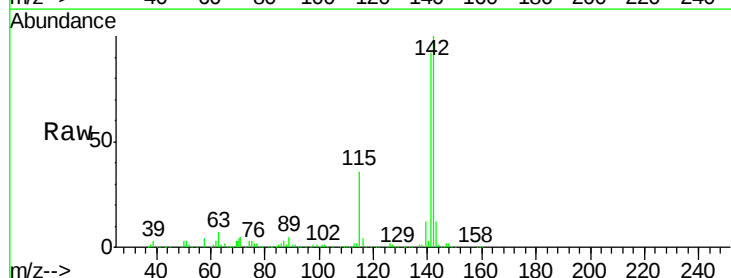
Manual Integrations
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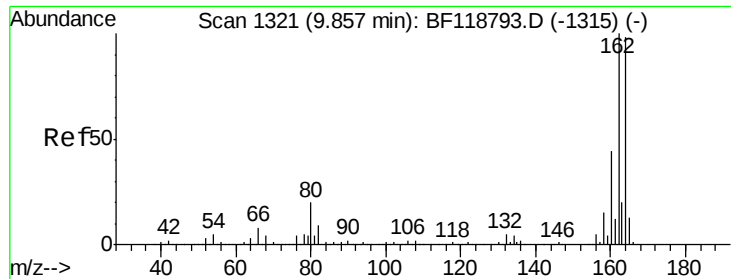
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#38
1-Methylnaphthalene
Concen: 23.567 ng
RT: 8.90 min Scan# 1158
Delta R.T. -0.02 min
Lab File: BF118905.D
Acq: 12 Feb 2020 1:21

Tgt Ion	Ratio	Lower	Upper
142	100		
141	92.1	73.8	110.6
116	3.9	3.0	4.4





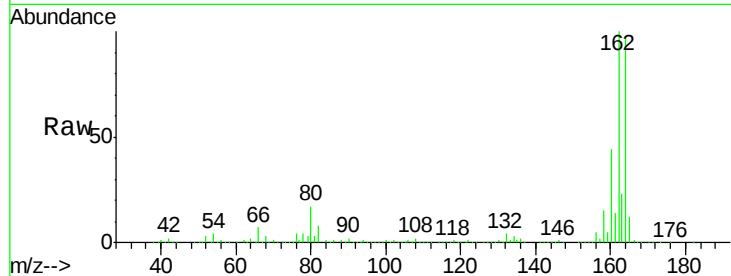
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.85 min Scan# 1319
Delta R.T. -0.01 min
Lab File: BF118905.D
Acq: 12 Feb 2020 1:21

Instrument :
BNA_F
ClientSampleId :
TP10-EP1-2.5DL

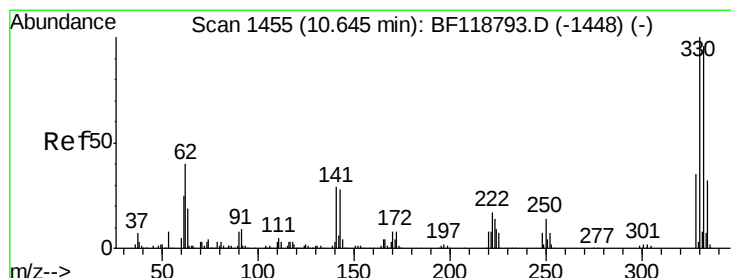
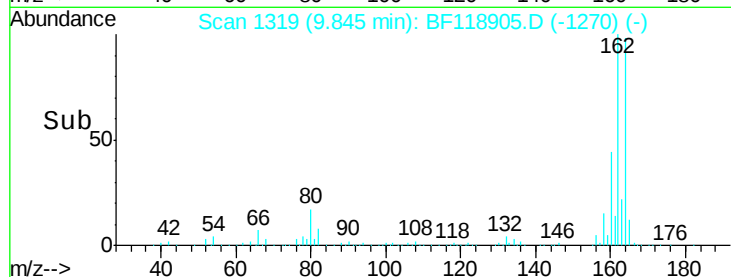
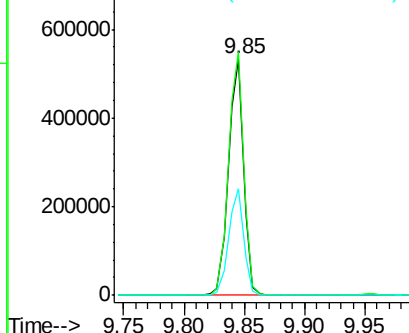
Tot Ion	Ratio	Resp	Lower	Upper
164	100			
162	103.0	81.4	122.2	
160	45.0	35.6	53.4	

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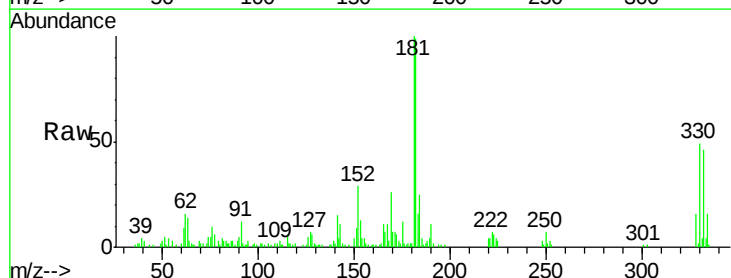


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

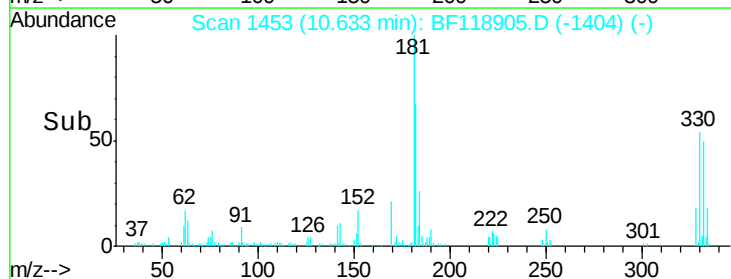
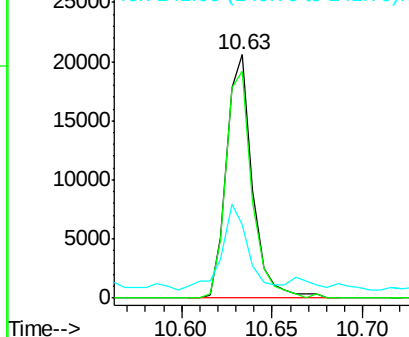


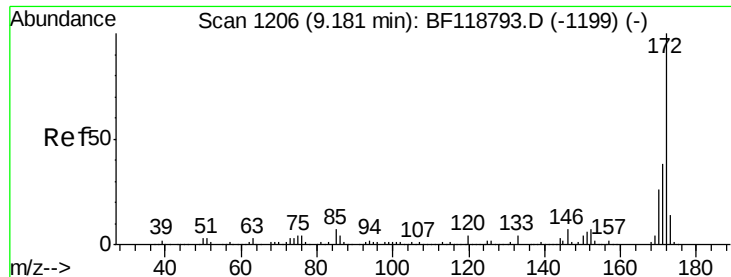
#42
2,4,6-Tribromophenol
Concen: 3.693 ng
RT: 10.63 min Scan# 1453
Delta R.T. -0.01 min
Lab File: BF118905.D
Acq: 12 Feb 2020 1:21

Tgt Ion	Ratio	Resp	Lower	Upper
330	100			
332	94.7	77.3	115.9	
141	35.5	22.4	33.6#	



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





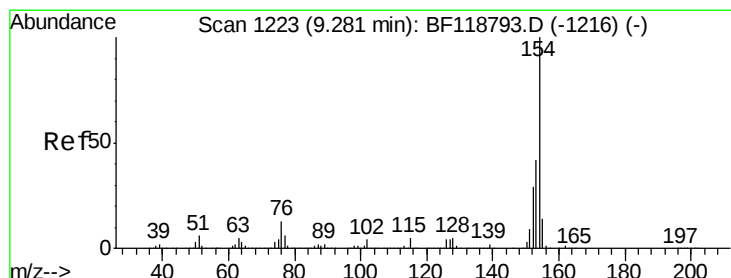
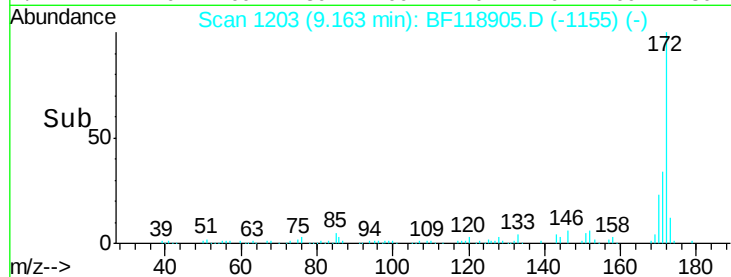
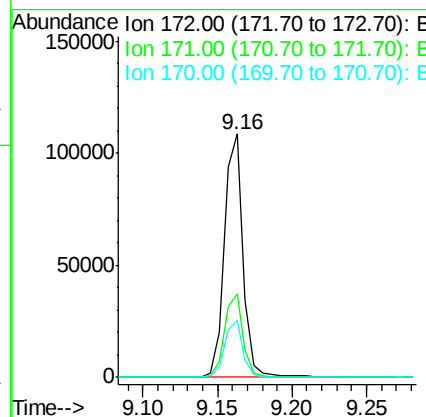
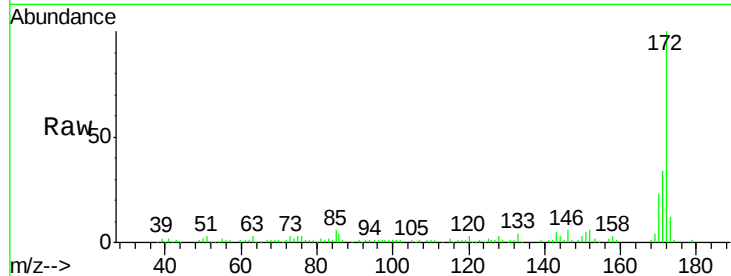
#45
2-Fluorobiphenyl
Concen: 3.656 ng
RT: 9.16 min Scan# 1203
Delta R.T. -0.02 min
Lab File: BF118905.D
Acq: 12 Feb 2020 1:21

Instrument :
BNA_F
ClientSampleId :
TP10-EP1-2.5DL

Tot Ion	Ratio	Resp	Lower	Upper
172	100			
171	34.1	30.8	46.2	
170	23.2	20.5	30.7	

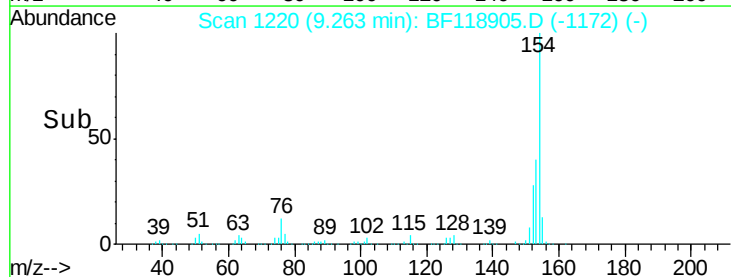
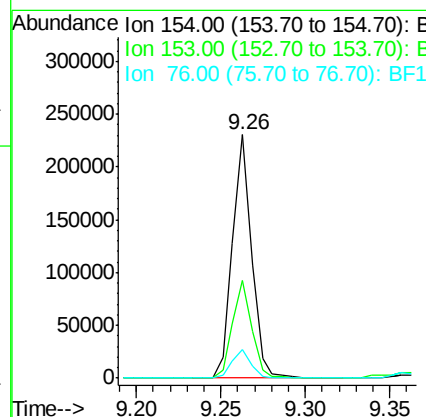
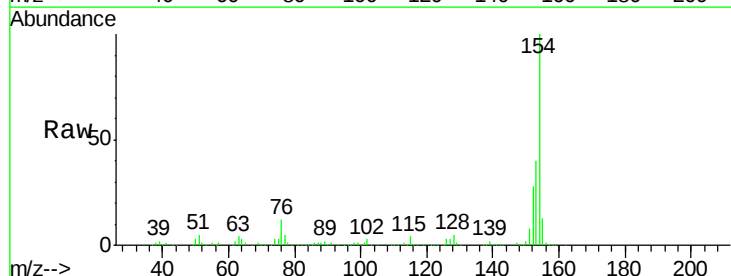
Manual Integrations
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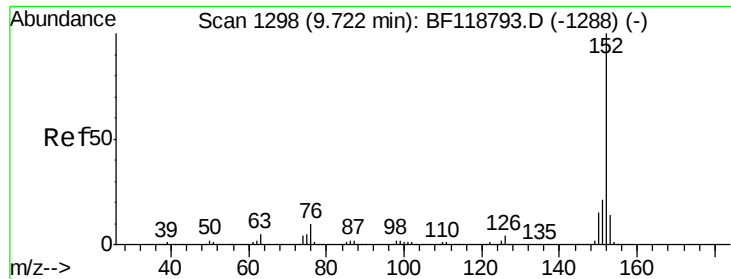
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#46
1,1'-Biphenyl
Concen: 5.651 ng
RT: 9.26 min Scan# 1220
Delta R.T. -0.02 min
Lab File: BF118905.D
Acq: 12 Feb 2020 1:21

Tgt Ion	Ratio	Resp	Lower	Upper
154	100			
153	40.2	22.4	62.4	
76	11.6	0.0	32.7	





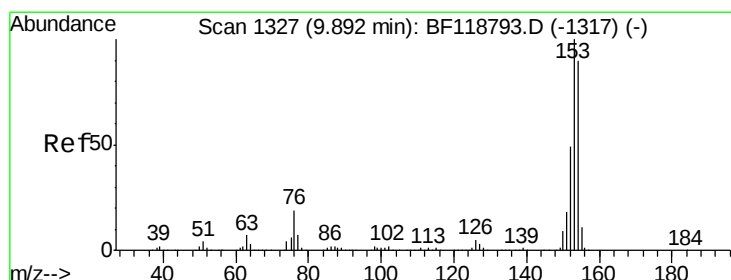
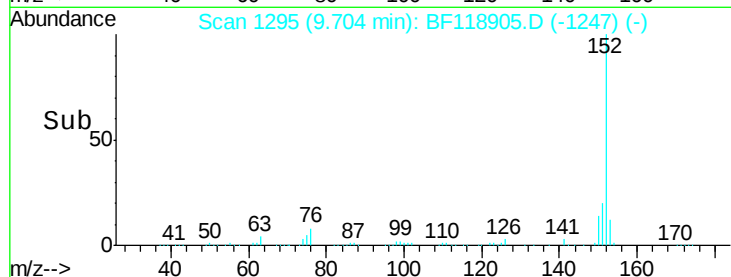
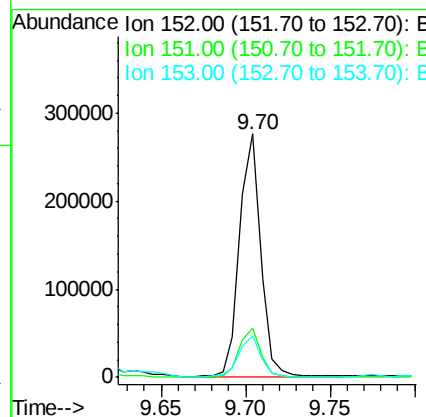
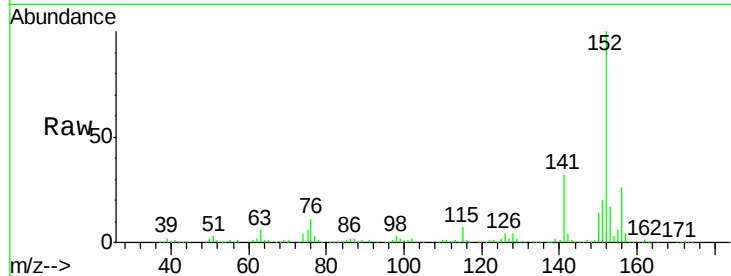
#49
Acenaphthylene
Concen: 6.163 ng
RT: 9.70 min Scan# 1295
Delta R.T. -0.02 min
Lab File: BF118905.D
Acq: 12 Feb 2020 1:21

Instrument :
BNA_F
ClientSampleId :
TP10-EP1-2.5DL

Tot Ion	Ratio	Resp	Lower	Upper
152	100	238441		
151	20.4		17.1	25.7
153	17.0		11.0	16.4

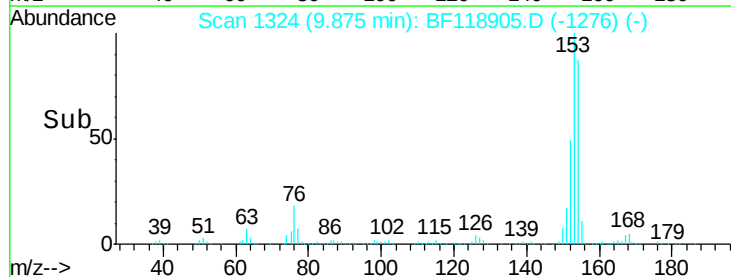
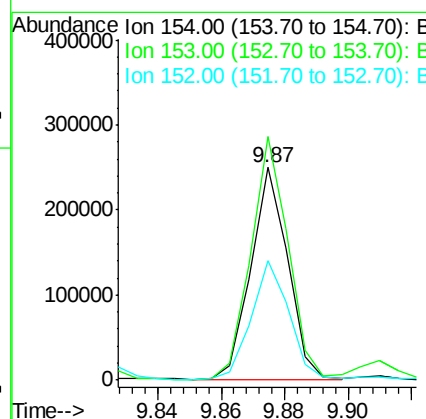
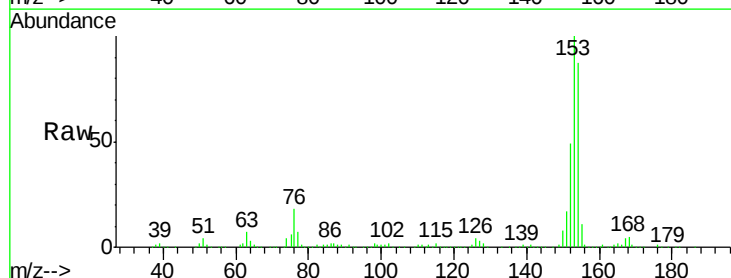
Manual Integrations
APPROVED

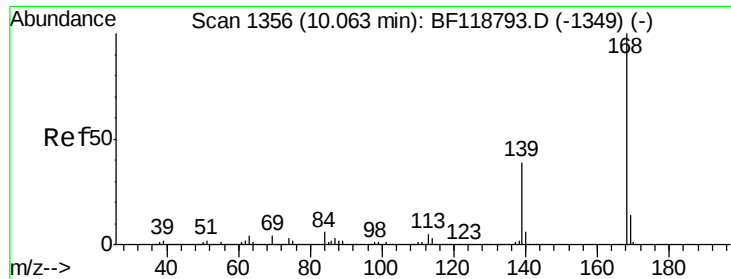
mohammad
2/12/2020 3:51:30 PM



#52
Acenaphthene
Concen: 7.858 ng
RT: 9.87 min Scan# 1324
Delta R.T. -0.02 min
Lab File: BF118905.D
Acq: 12 Feb 2020 1:21

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	200327		
153	114.4		89.4	134.0
152	55.9		43.6	65.4





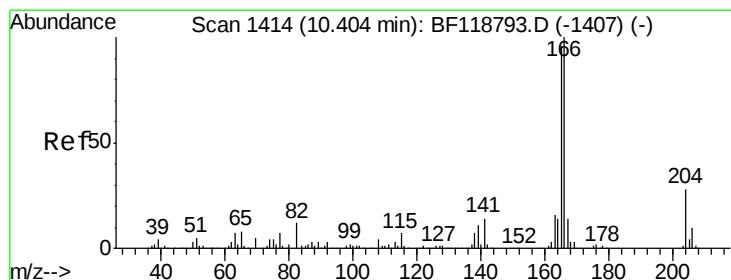
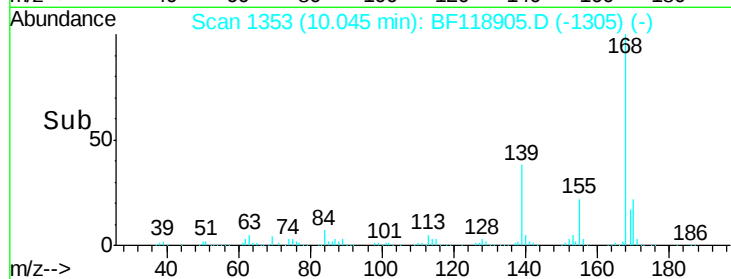
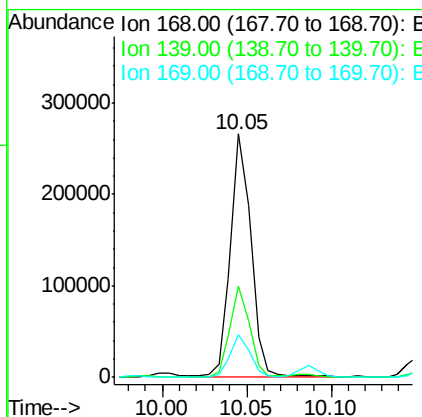
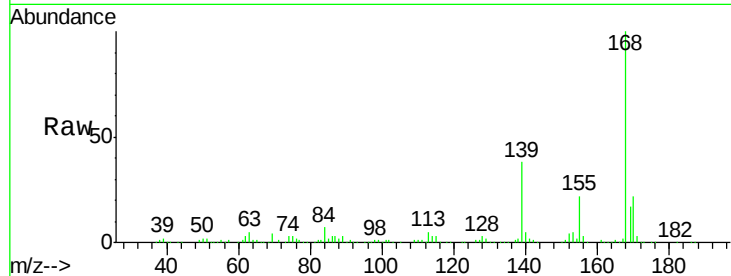
#55
Dibenzofuran
Concen: 6.058 ng
RT: 10.05 min Scan# 1353
Delta R.T. -0.02 min
Lab File: BF118905.D
Acq: 12 Feb 2020 1:21

Instrument :
BNA_F
ClientSampleId :
TP10-EP1-2.5DL

Tot Ion	Ratio	Resp	Lower	Upper
168	100	223200		
139	37.6		31.6	47.4
169	17.5		11.4	17.2#

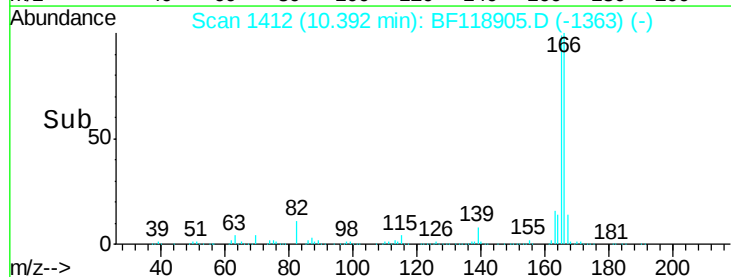
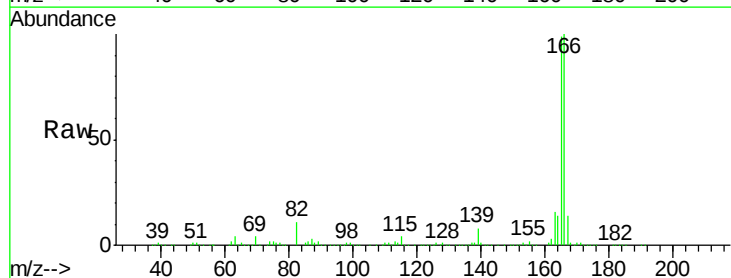
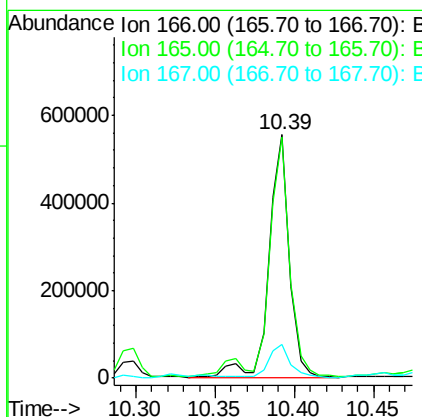
Manual Integrations
APPROVED

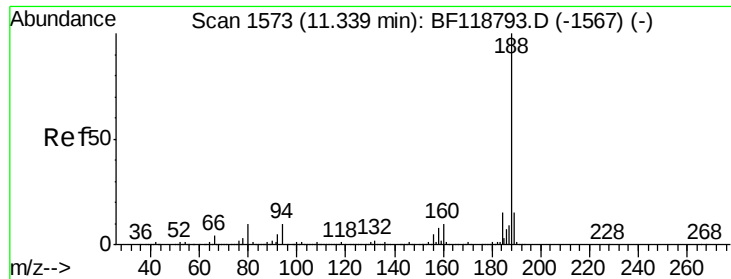
mohammad
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#58
Fluorene
Concen: 18.051 ng
RT: 10.39 min Scan# 1412
Delta R.T. -0.01 min
Lab File: BF118905.D
Acq: 12 Feb 2020 1:21

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	500364		
165	99.1		77.0	115.6
167	13.8		11.1	16.7





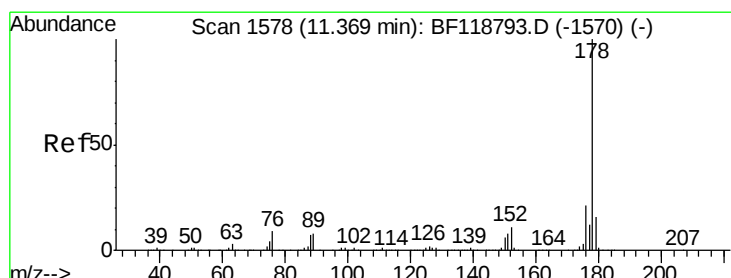
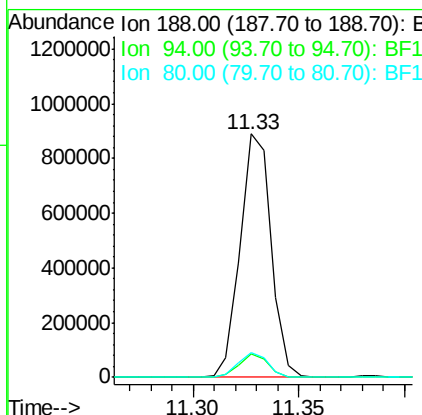
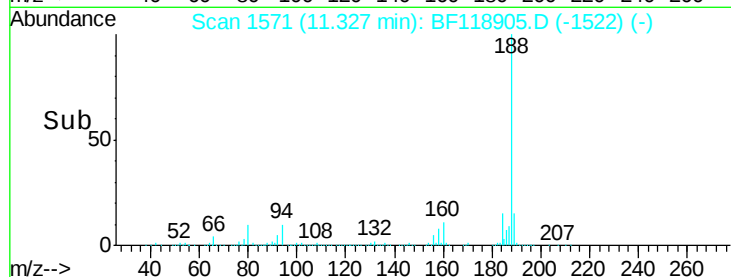
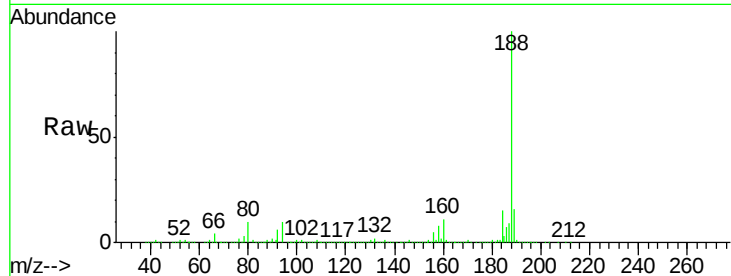
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.33 min Scan# 1571
Delta R.T. -0.01 min
Lab File: BF118905.D
Acq: 12 Feb 2020 1:21

Instrument :
BNA_F
ClientSampleId :
TP10-EP1-2.5DL

Tot Ion	Ratio	Resp	Lower	Upper
188	100	904429		
94	9.5		7.9	11.9
80	10.3		8.4	12.6

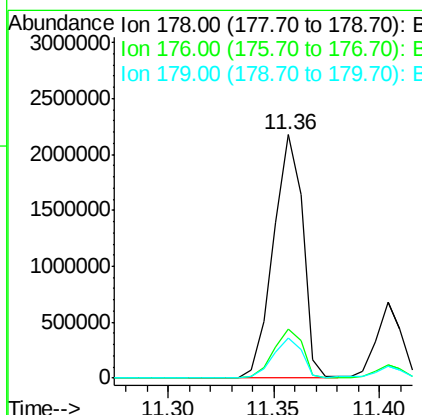
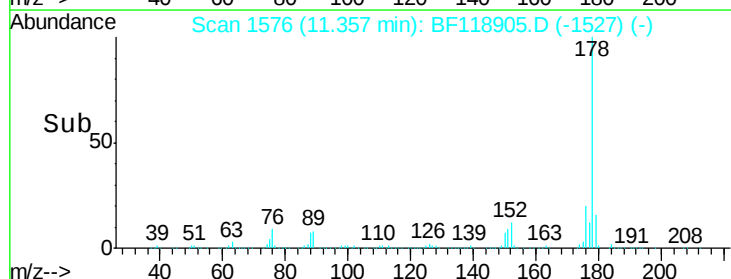
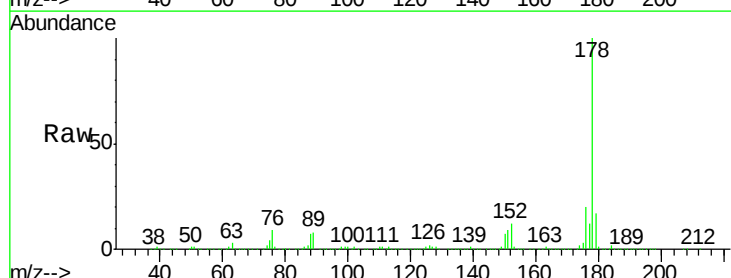
Manual Integrations
APPROVED

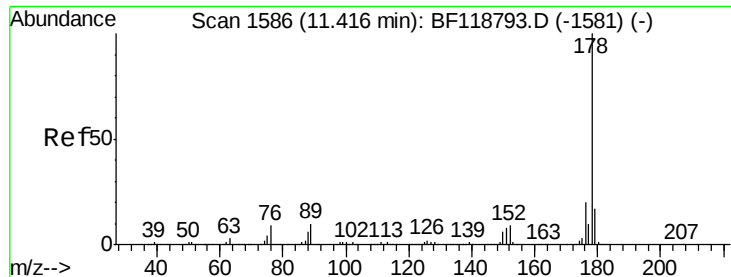
mohammad
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#71
Phenanthrene
Concen: 47.357 ng
RT: 11.36 min Scan# 1576
Delta R.T. -0.01 min
Lab File: BF118905.D
Acq: 12 Feb 2020 1:21

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	2107336		
176	20.3		16.6	24.8
179	16.6		13.2	19.8





#72

Anthracene

Concen: 12.263 ng

RT: 11.40 min Scan# 1584

Delta R.T. -0.01 min

Lab File: BF118905.D

Acq: 12 Feb 2020 1:21

Instrument :

BNA_F

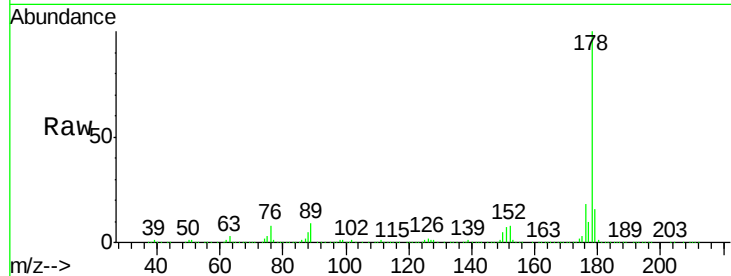
ClientSampleId :

TP10-EP1-2.5DL

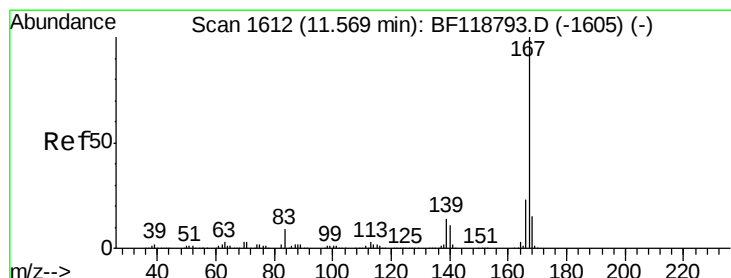
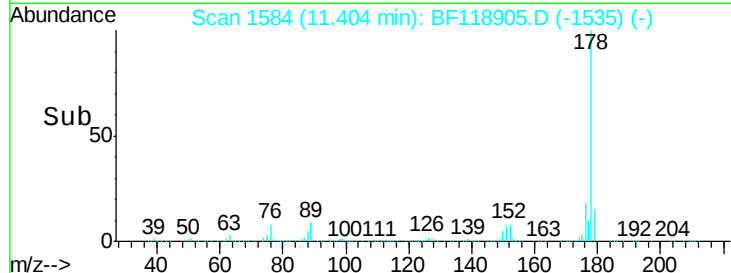
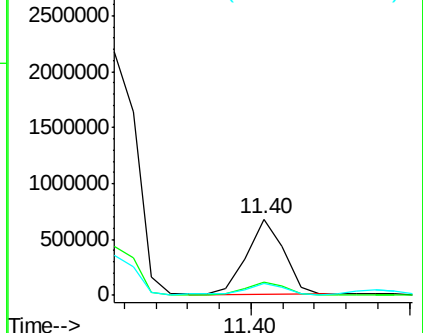
Tot Ion:	178	Resp:	542886
Ion Ratio	Lower	Upper	
178	100		
176	17.9	16.2	24.2
179	15.6	13.4	20.2

Manual Integrations
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Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E



#73

Carbazole

Concen: 5.072 ng

RT: 11.56 min Scan# 1610

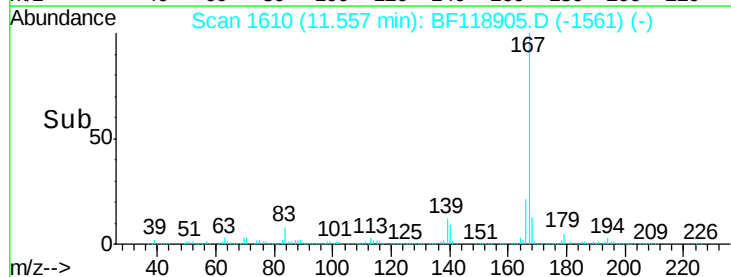
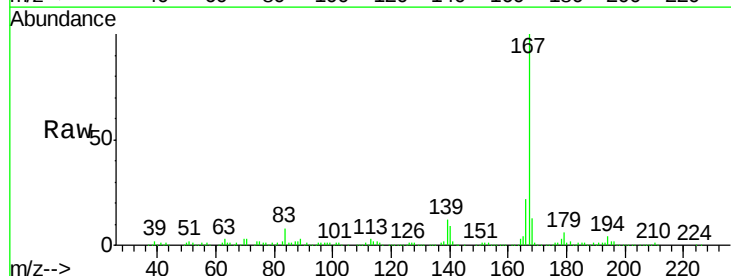
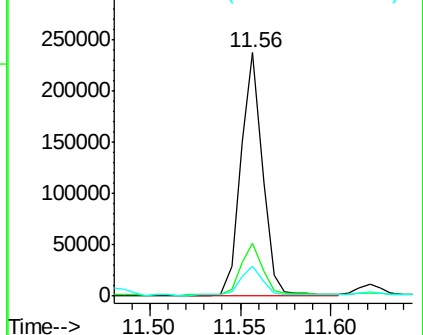
Delta R.T. -0.01 min

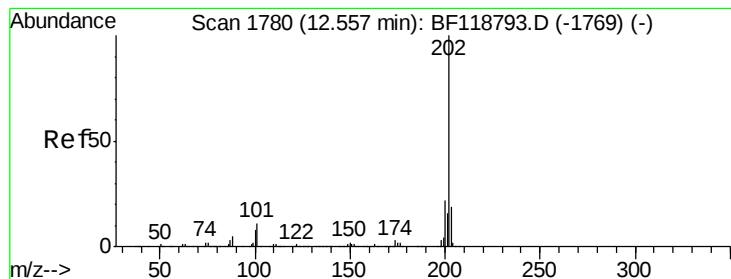
Lab File: BF118905.D

Acq: 12 Feb 2020 1:21

Tgt Ion:	167	Resp:	197032
Ion Ratio	Lower	Upper	
167	100		
166	21.9	18.4	27.6
139	12.0	11.1	16.7

Abundance Ion 167.00 (166.70 to 167.70): E
Ion 166.00 (165.70 to 166.70): E
Ion 139.00 (138.70 to 139.70): E





#75

Fluoranthene

Concen: 33.938 ng

RT: 12.54 min Scan# 1778

Delta R.T. -0.01 min

Lab File: BF118905.D

Acq: 12 Feb 2020 1:21

Instrument :

BNA_F

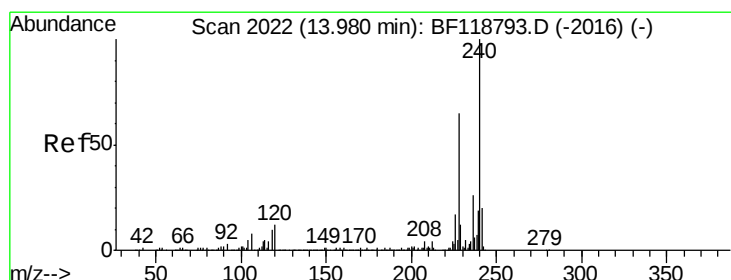
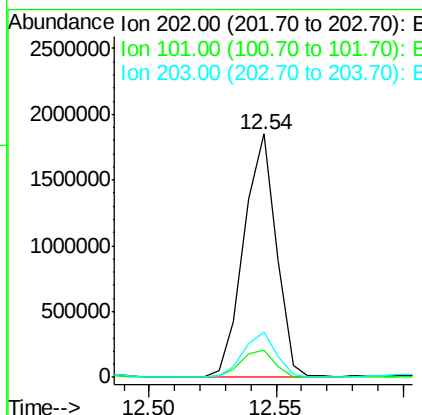
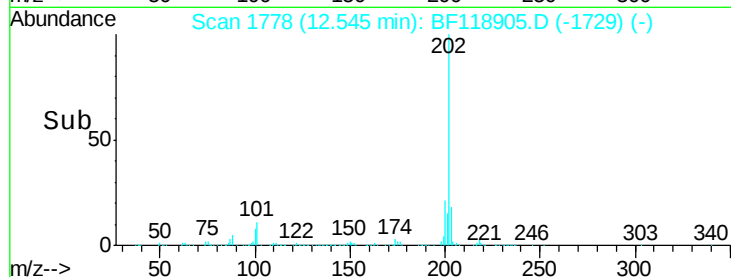
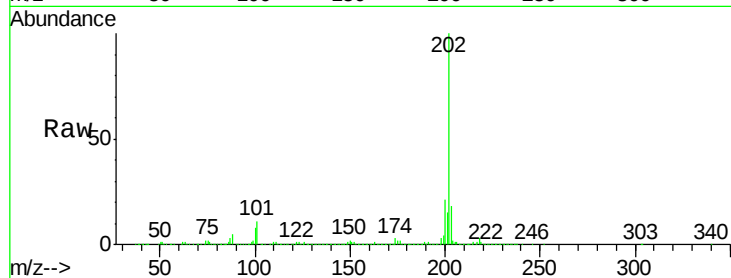
ClientSampleId :

TP10-EP1-2.5DL

Tot Ion:	202	Resp:	1648874
Ion	Ratio	Lower	Upper
202	100		
101	11.2	0.0	31.0
203	18.3	0.0	38.7

Manual Integrations
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#76

Chrysene-d12

Concen: 20.000 ng

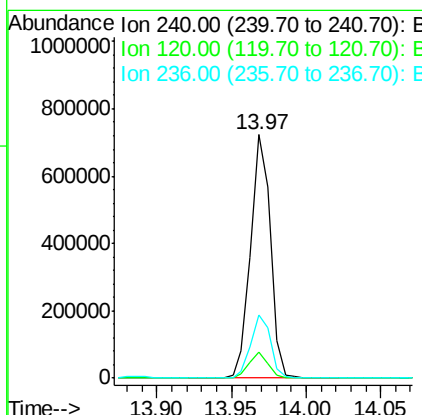
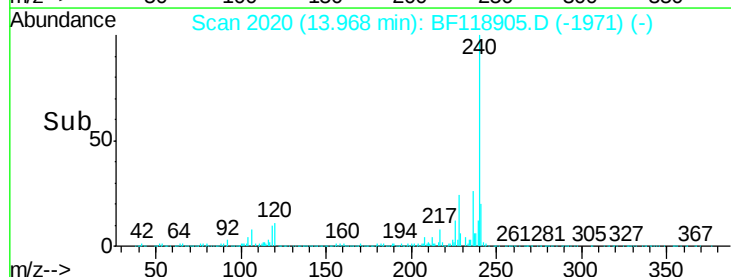
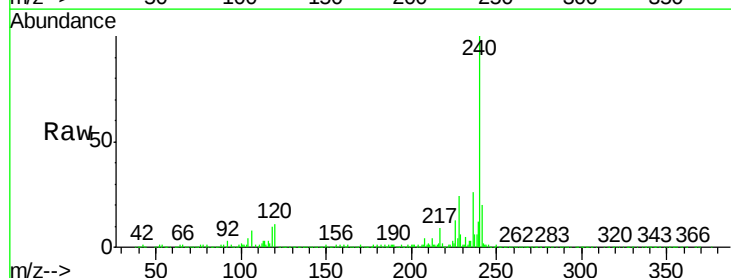
RT: 13.97 min Scan# 2020

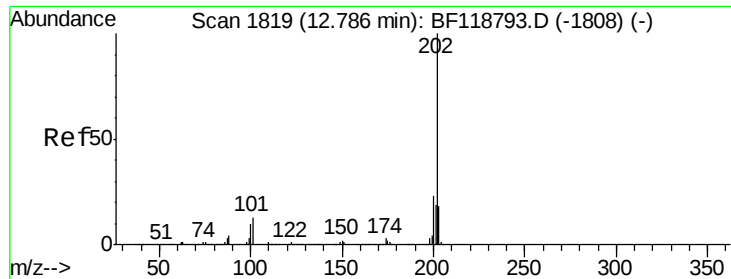
Delta R.T. -0.01 min

Lab File: BF118905.D

Acq: 12 Feb 2020 1:21

Tgt Ion:	240	Resp:	659596
Ion	Ratio	Lower	Upper
240	100		
120	10.9	9.4	14.0
236	26.2	21.0	31.6





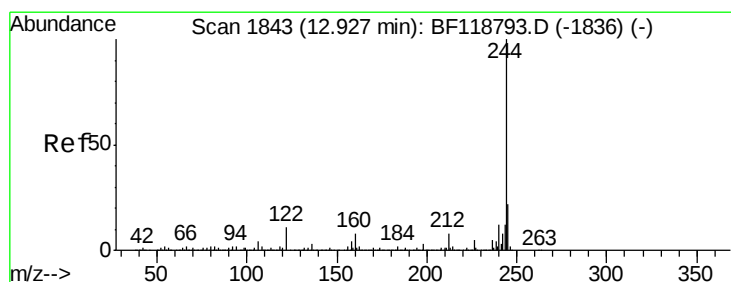
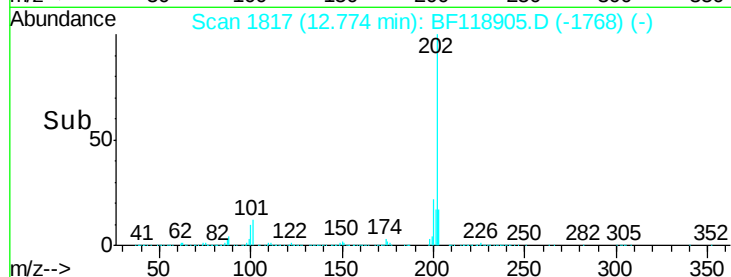
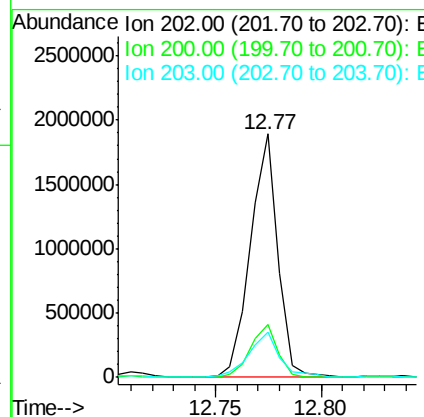
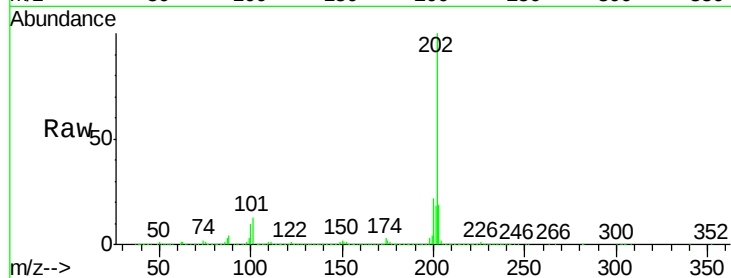
#78
Pvrene
Concen: 37.348 ng
RT: 12.77 min Scan# 1817
Delta R.T. -0.01 min
Lab File: BF118905.D
Acq: 12 Feb 2020 1:21

Instrument :
BNA_F
ClientSampleId :
TP10-EP1-2.5DL

Tot Ion	Ratio	Lower	Upper
202	100		
200	21.8	18.2	27.2
203	18.5	14.8	22.2

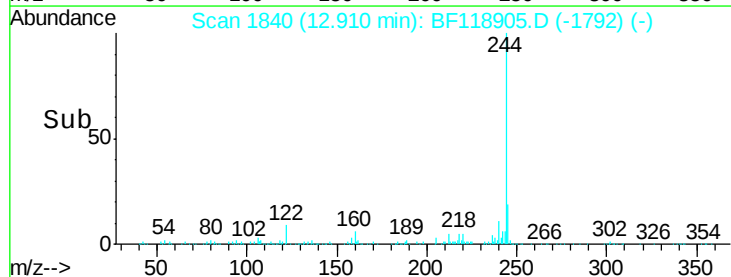
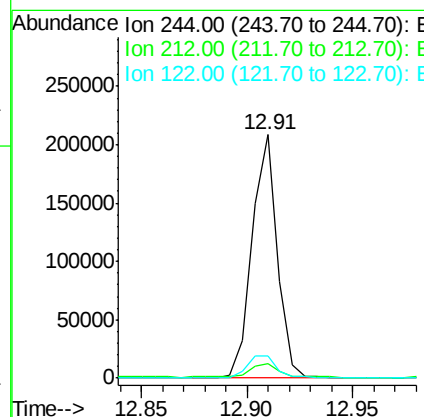
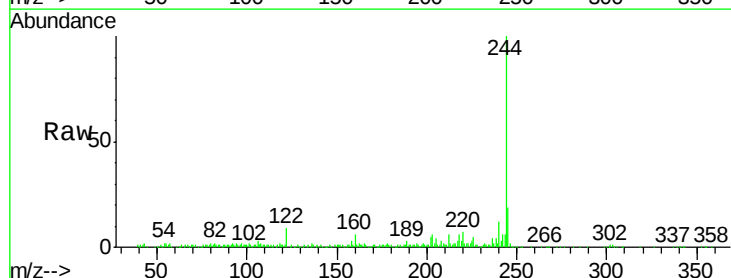
Manual Integrations
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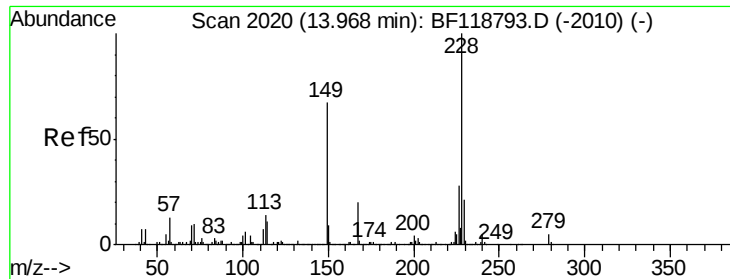
mohammad
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#79
Terphenyl-d14
Concen: 5.365 ng
RT: 12.91 min Scan# 1840
Delta R.T. -0.02 min
Lab File: BF118905.D
Acq: 12 Feb 2020 1:21

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.2	6.5	9.7#
122	9.1	8.9	13.3





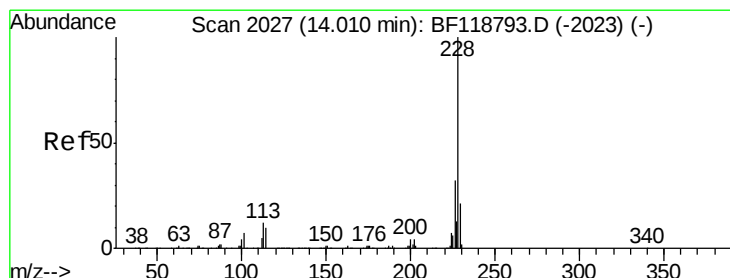
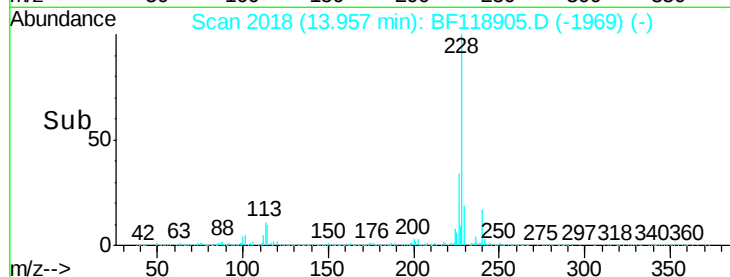
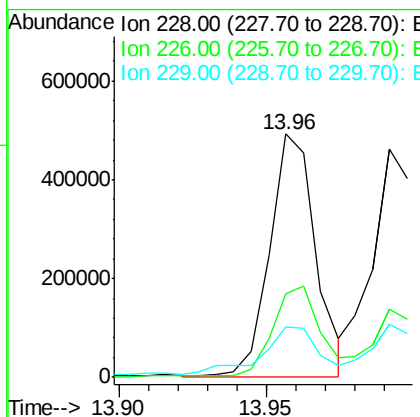
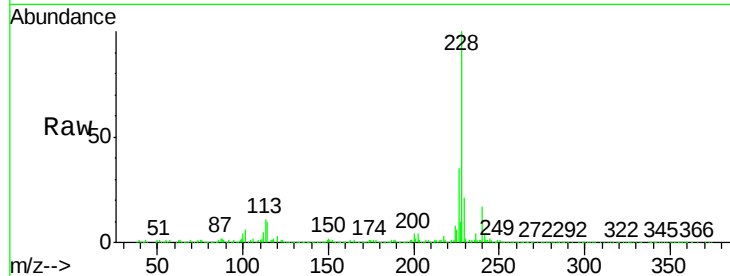
#81
Benzo(a)anthracene
Concen: 13.697 ng m
RT: 13.96 min Scan# 2018
Delta R.T. -0.01 min
Lab File: BF118905.D
Acq: 12 Feb 2020 1:21

Instrument :
BNA_F
ClientSampleId :
TP10-EP1-2.5DL

Tot Ion	Ratio	Lower	Upper
228	100		
226	34.6	22.7	34.1#
229	20.8	16.6	25.0

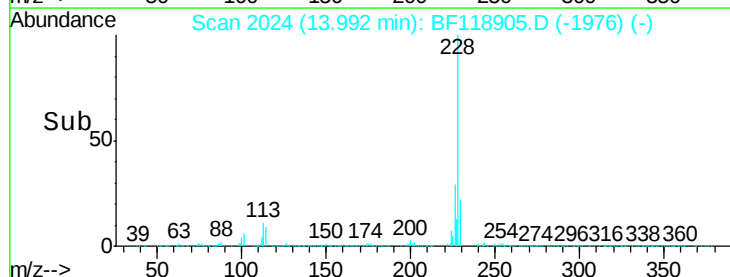
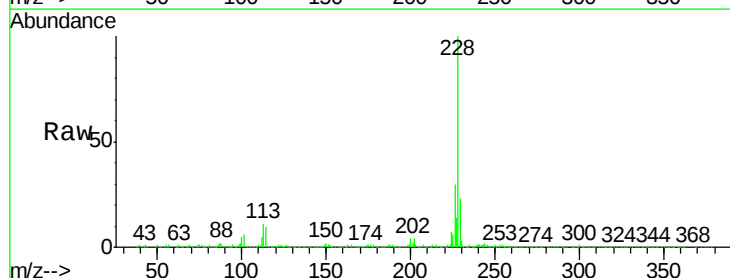
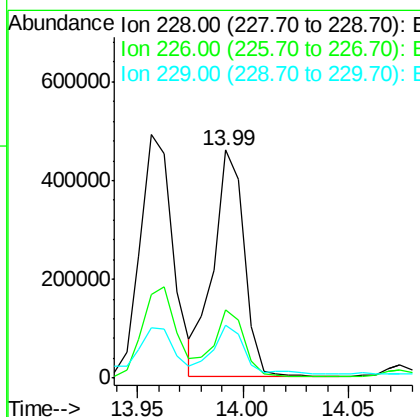
Manual Integrations
APPROVED

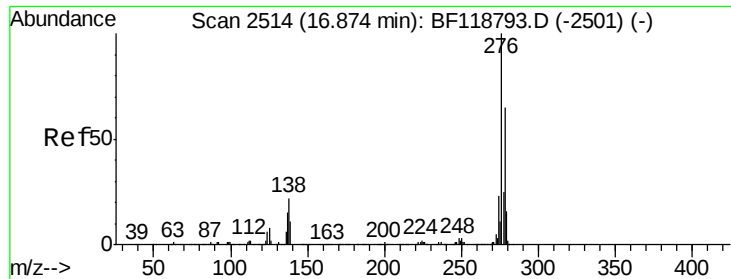
mohammad
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#83
Chrysene
Concen: 11.781 ng
RT: 13.99 min Scan# 2024
Delta R.T. -0.02 min
Lab File: BF118905.D
Acq: 12 Feb 2020 1:21

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.2	25.4	38.0
229	23.3	16.9	25.3





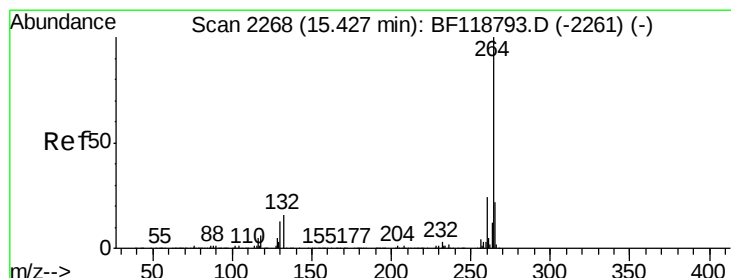
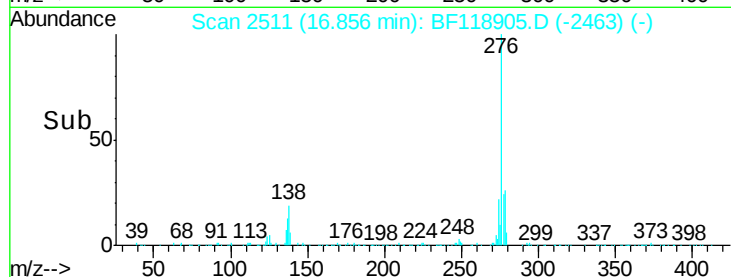
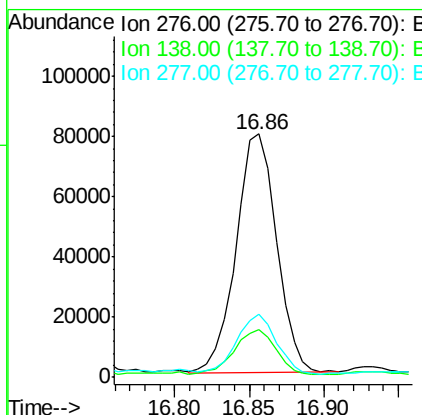
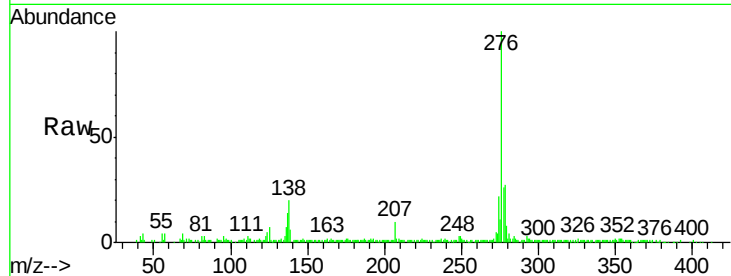
#86
Indeno(1,2,3-cd)pyrene
Concen: 3.780 ng
RT: 16.86 min Scan# 2511
Delta R.T. -0.02 min
Lab File: BF118905.D
Acq: 12 Feb 2020 1:21

Instrument :
BNA_F
ClientSampled :
TP10-EP1-2.5DL

Tot Ion	Ratio	Lower	Upper
276	100		
138	19.9	18.3	27.5
277	24.4	20.2	30.4

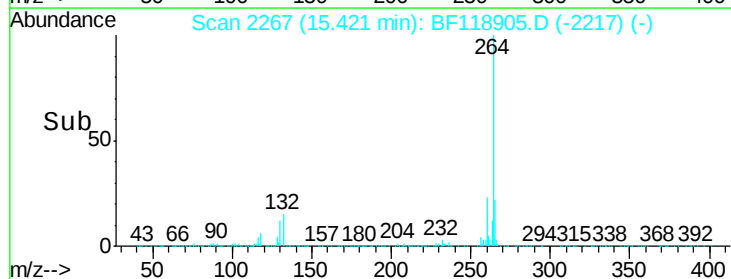
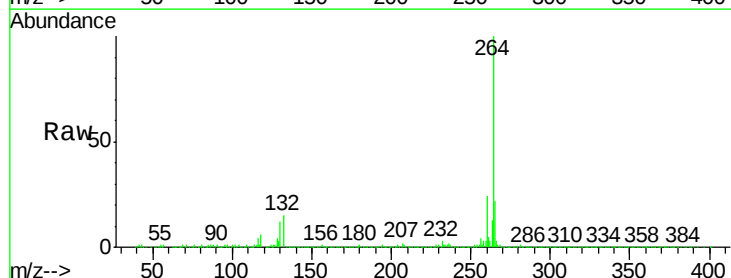
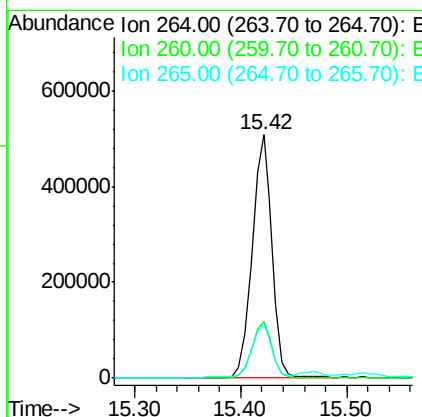
Manual Integrations
APPROVED

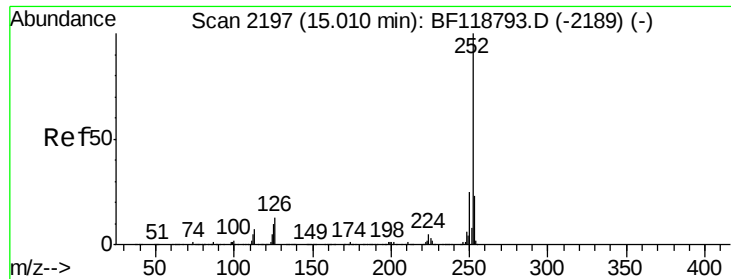
mohammad
2/12/2020 3:51:30 PM



#87
Perylene-d12
Concen: 20.000 ng
RT: 15.42 min Scan# 2267
Delta R.T. -0.01 min
Lab File: BF118905.D
Acq: 12 Feb 2020 1:21

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.5	19.1	28.7
265	22.3	17.2	25.8





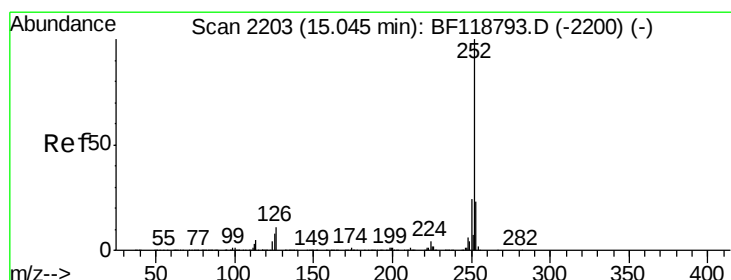
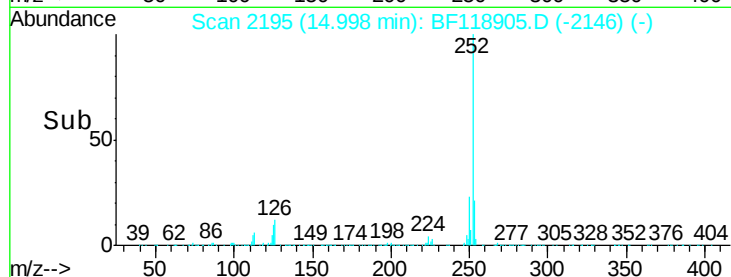
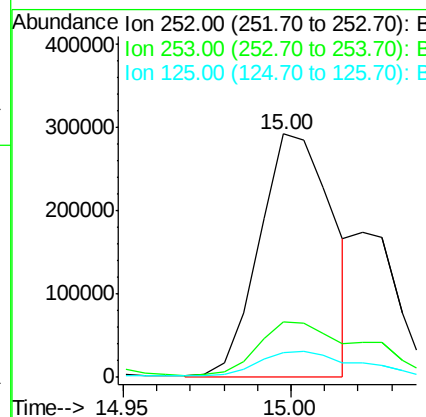
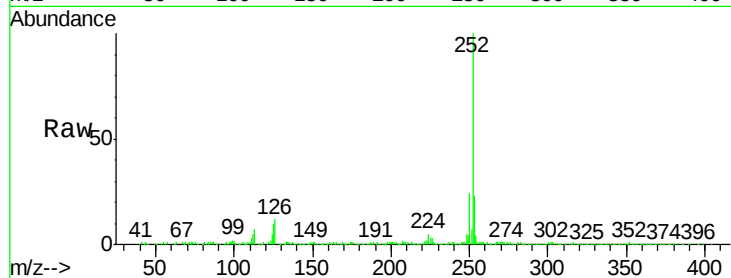
#88
Benzo(b)fluoranthene
Concen: 10.801 ng m
RT: 15.00 min Scan# 2195
Delta R.T. -0.01 min
Lab File: BF118905.D
Acq: 12 Feb 2020 1:21

Instrument :
BNA_F
ClientSampleId :
TP10-EP1-2.5DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.6	18.4	27.6
125	10.1	8.1	12.1

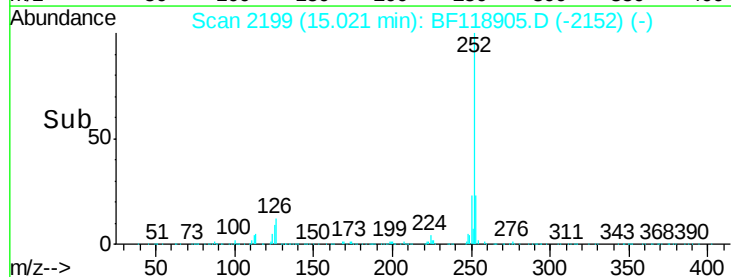
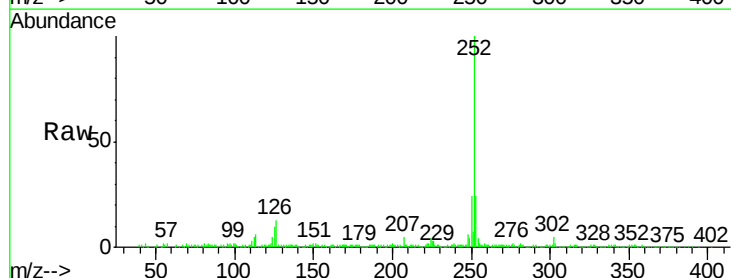
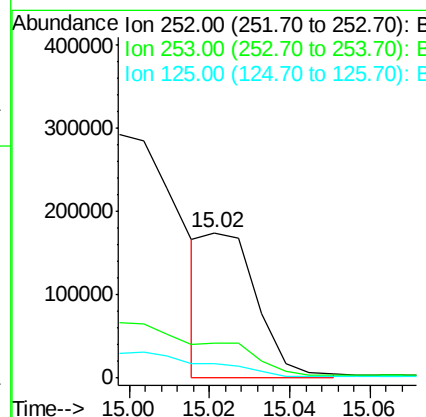
Manual Integrations
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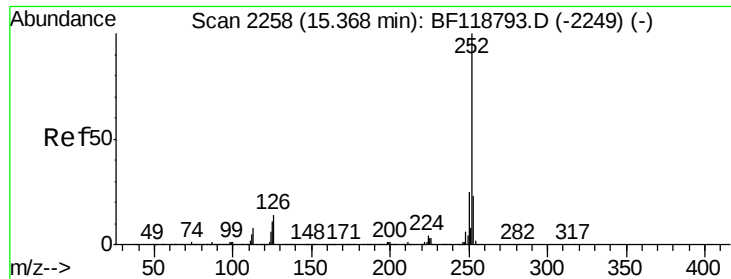
mohammad
2/12/2020 3:51:30 PM



#89
Benzo(k)fluoranthene
Concen: 4.419 ng m
RT: 15.02 min Scan# 2199
Delta R.T. -0.02 min
Lab File: BF118905.D
Acq: 12 Feb 2020 1:21

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.3	18.2	27.4
125	10.3	7.0	10.6





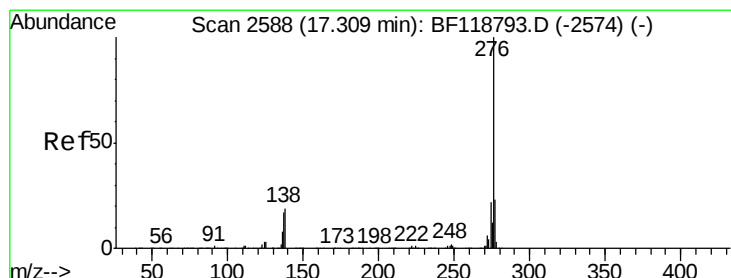
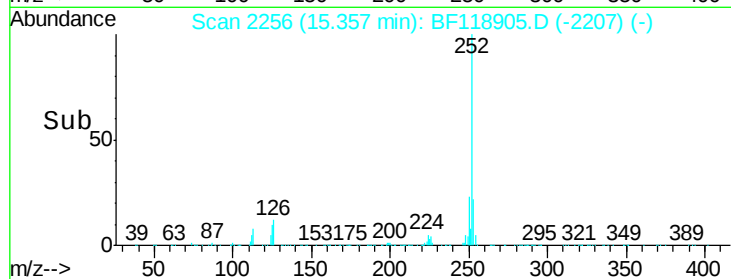
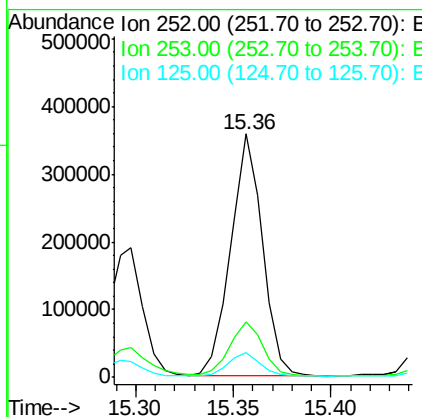
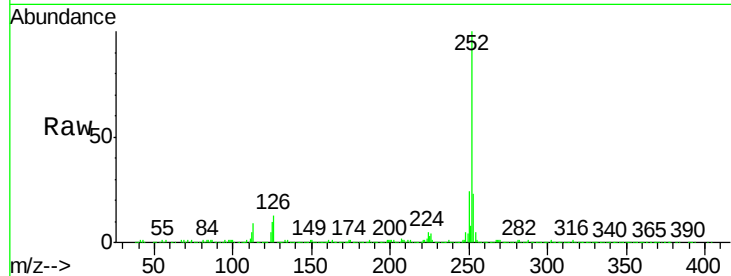
#90
Benzo(a)pyrene
Concen: 11.370 ng
RT: 15.36 min Scan# 2256
Delta R.T. -0.01 min
Lab File: BF118905.D
Acq: 12 Feb 2020 1:21

Instrument :
BNA_F
ClientSampleId :
TP10-EP1-2.5DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.8	18.1	27.1
125	10.1	8.7	13.1

Manual Integrations
APPROVED

mohammad
2/12/2020 3:51:30 PM



#92
Benzo(g,h,i)perylene
Concen: 4.479 ng
RT: 17.29 min Scan# 2584
Delta R.T. -0.02 min
Lab File: BF118905.D
Acq: 12 Feb 2020 1:21

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.5	18.7	28.1
138	19.8	15.4	23.2

