

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021120\
 Data File : BF118907.D
 Acq On : 12 Feb 2020 2:18
 Operator : CG/JU
 Sample : L1468-05DL 50X
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP9-EP1-2.5DL

Manual Integrations
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Quant Time: Feb 12 08:28:00 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	192407	20.00	ng	-0.01
21) Naphthalene-d8	8.09	136	767532	20.00	ng	-0.01
39) Acenaphthene-d10	9.84	164	529879	20.00	ng	-0.02
64) Phenanthrene-d10	11.33	188	791753	20.00	ng	-0.01
76) Chrysene-d12	13.97	240	627509	20.00	ng	-0.01
87) Perylene-d12	15.42	264	766572	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.43	112	21656	2.13	ng	0.00
7) Phenol-d6	6.45	99	23453	1.86	ng	0.00
23) Nitrobenzene-d5	7.36	82	14932	1.16	ng	-0.02
42) 2,4,6-Tribromophenol	10.63	330	7533	1.19	ng	-0.01
45) 2-Fluorobiphenyl	9.16	172	47140	1.59	ng	-0.02
79) Terphenyl-d14	12.91	244	49633	1.62	ng	-0.02
Target Compounds						Qvalue
31) Naphthalene	8.12	128	2268198	64.614	ng	100
37) 2-Methylnaphthalene	8.80	142	421851	17.327	ng	98
38) 1-Methylnaphthalene	8.90	142	237294	10.361	ng	100
46) 1,1'-Biphenyl	9.26	154	131502	3.588	ng	97
49) Acenaphthylene	9.70	152	260827	5.928	ng	98
52) Acenaphthene	9.87	154	275678	9.509	ng	98
55) Dibenzofuran	10.05	168	444131	10.600	ng	96
58) Fluorene	10.39	166	575026	18.242	ng	100
71) Phenanthrene	11.36	178	1977876	50.773	ng	99
72) Anthracene	11.40	178	690857	17.827	ng	97
73) Carbazole	11.56	167	259869	7.641	ng	95
75) Fluoranthene	12.54	202	1386923	32.609	ng	99
78) Pyrene	12.77	202	1164615	27.053	ng	98
81) Benzo(a)anthracene	13.96	228	595593m	15.950	ng	
83) Chrysene	13.99	228	490026	13.075	ng	97
86) Indeno(1,2,3-cd)pyrene	16.85	276	157863	4.192	ng	97
88) Benzo(b)fluoranthene	15.00	252	679009m	14.275	ng	
89) Benzo(k)fluoranthene	15.02	252	211022m	5.094	ng	
90) Benzo(a)pyrene	15.36	252	537787	13.211	ng	99
92) Benzo(a,h,i)perylene	17.29	276	136509	3.928	ng	99

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

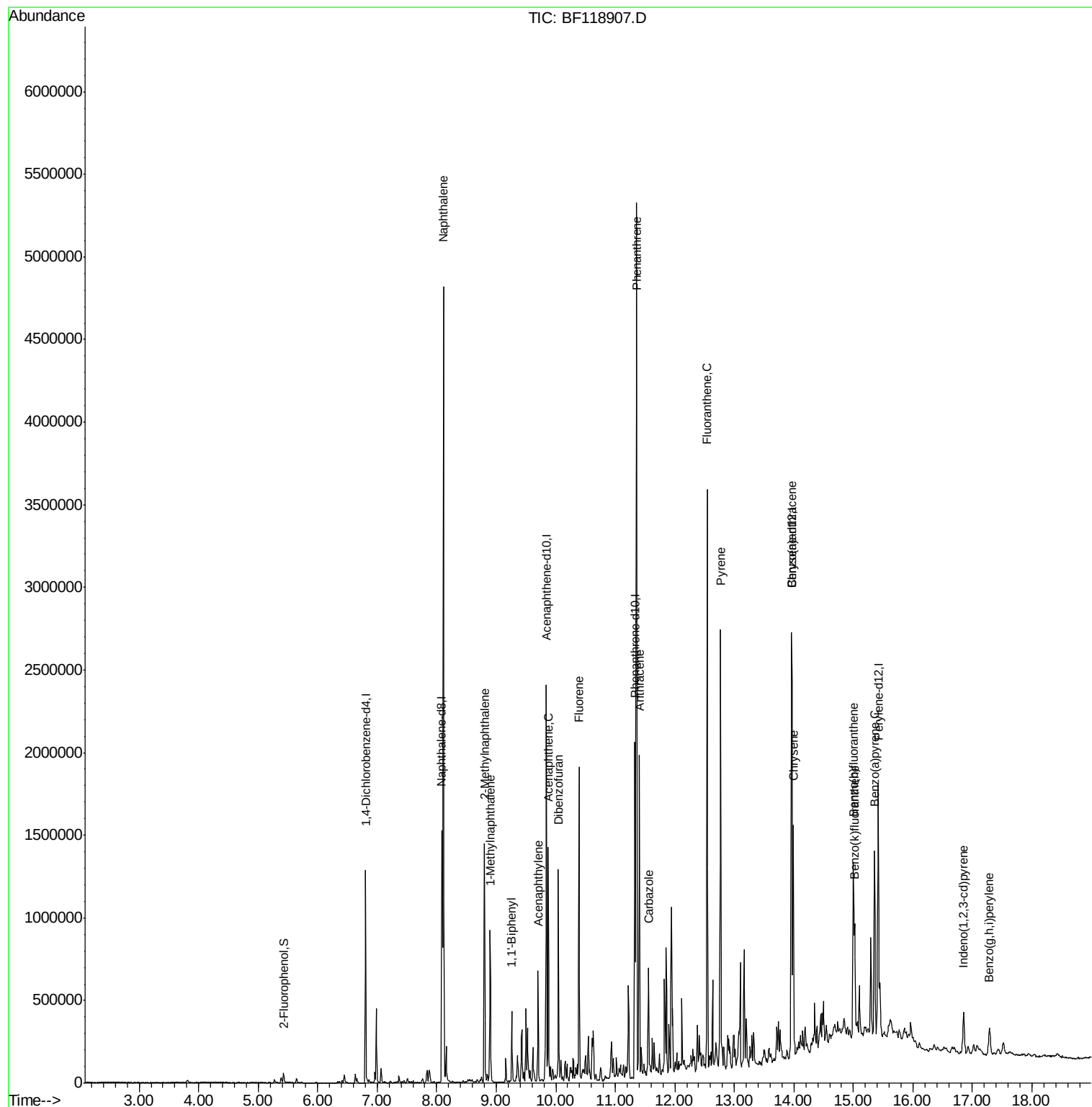
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021120\
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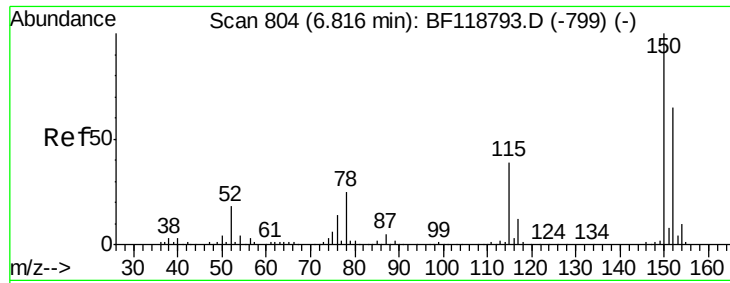
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Quant Time: Feb 12 08:28:00 2020
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Feb 03 16:26:03 2020
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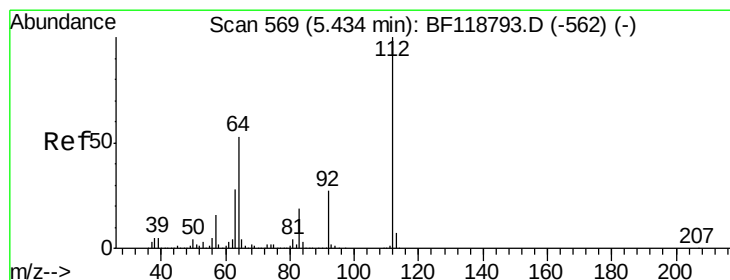
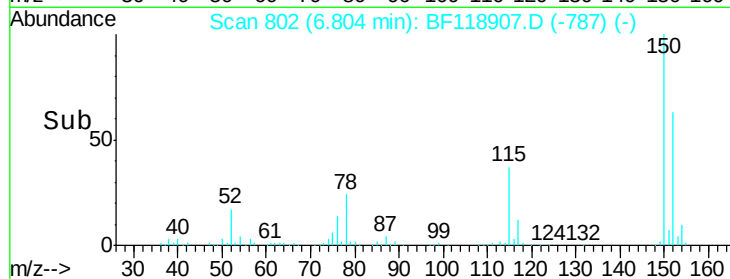
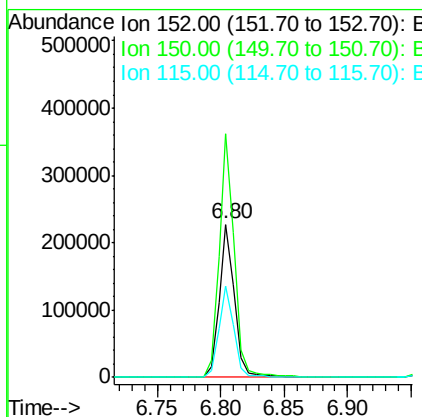
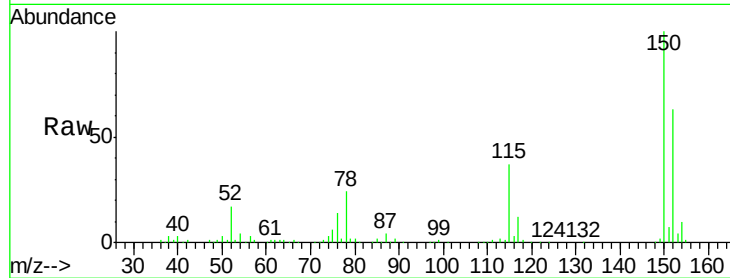
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.80 min Scan# 802
 Delta R.T. -0.01 min
 Lab File: BF118907.D
 Acq: 12 Feb 2020 2:18

Instrument :
 BNA_F
 ClientSampleId :
 TP9-EP1-2.5DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	159.0	123.6	185.4
115	59.3	48.2	72.2

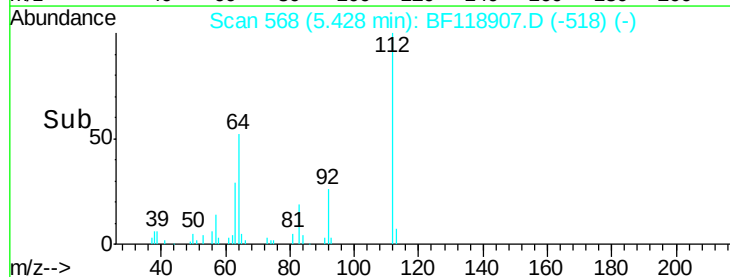
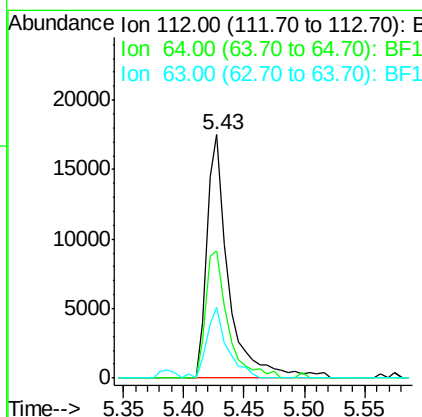
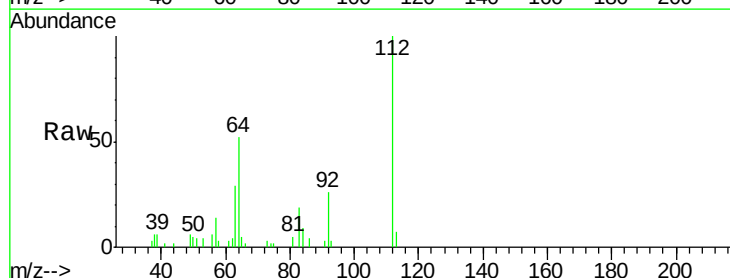
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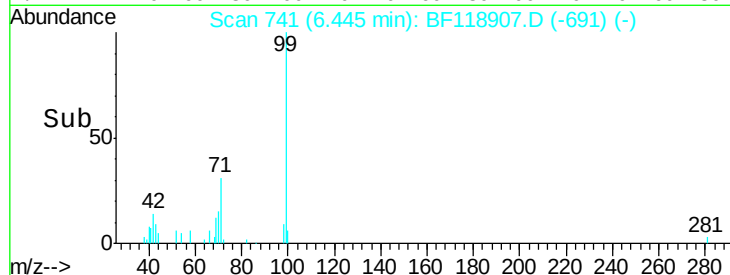
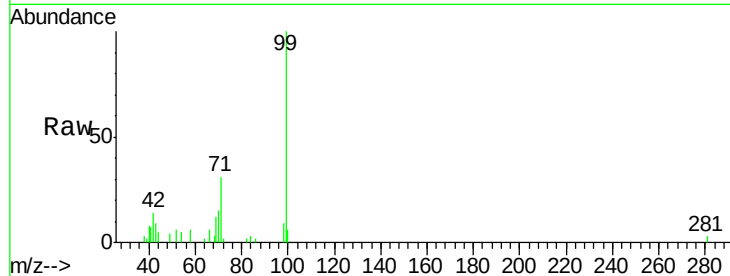
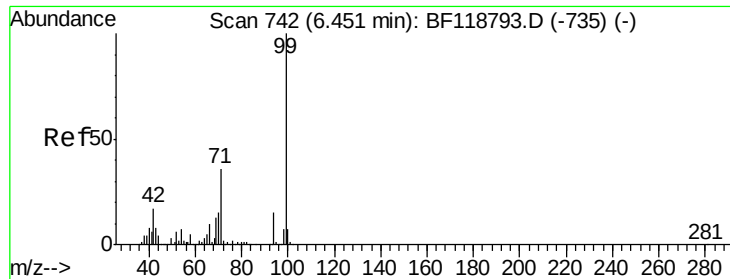
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#5
 2-Fluorophenol
 Concen: 2.131 ng
 RT: 5.43 min Scan# 568
 Delta R.T. -0.01 min
 Lab File: BF118907.D
 Acq: 12 Feb 2020 2:18

Tgt Ion	Ratio	Lower	Upper
112	100		
64	52.5	42.6	63.8
63	29.0	22.2	33.4





#7

Phenol-d6

Concen: 1.859 ng

RT: 6.45 min Scan# 741

Delta R.T. -0.01 min

Lab File: BF118907.D

Acq: 12 Feb 2020 2:18

Tot Ion	Ion	Ratio	Resp	Lower	Upper
99	100		23453		
42	14.1	13.4	20.0		
71	31.3	29.0	43.6		

Instrument :

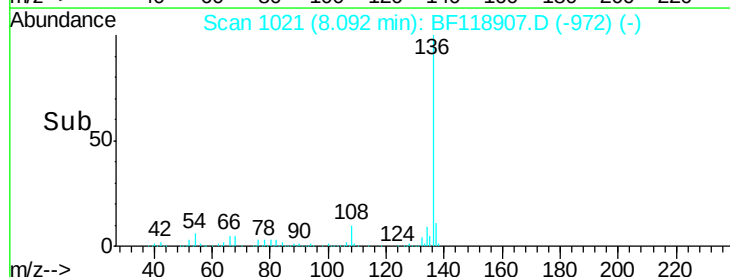
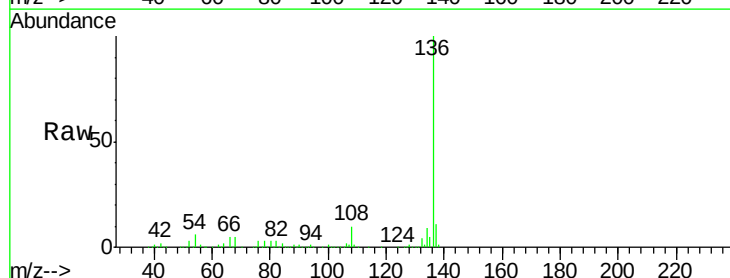
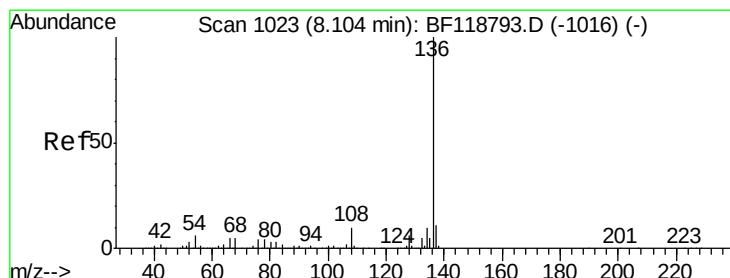
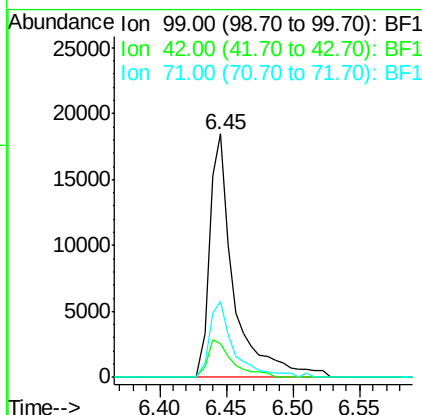
BNA_F

ClientSampleId :

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#21

Naphthalene-d8

Concen: 20.000 ng

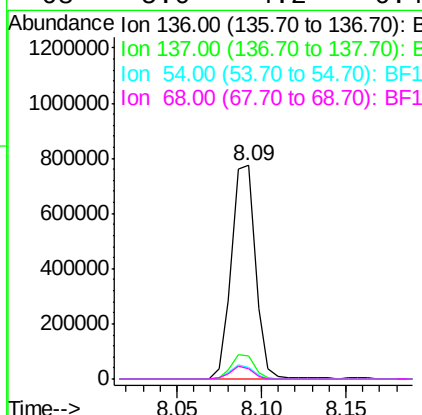
RT: 8.09 min Scan# 1021

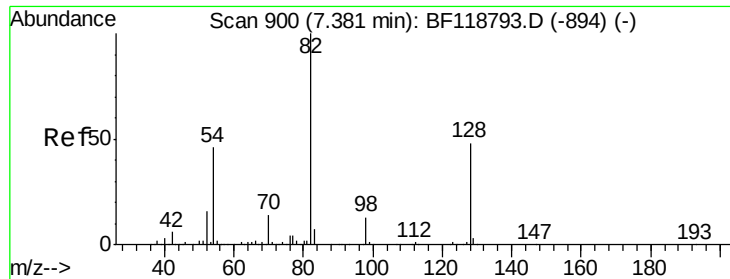
Delta R.T. -0.01 min

Lab File: BF118907.D

Acq: 12 Feb 2020 2:18

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
136	100		767532		
137	10.9	8.7	13.1		
54	5.7	5.0	7.6		
68	5.0	4.2	6.4		





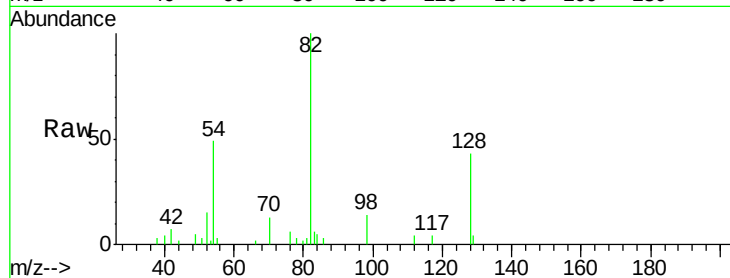
#23
 Nitrobenzene-d5
 Concen: 1.160 ng
 RT: 7.36 min Scan# 897
 Delta R.T. -0.02 min
 Lab File: BF118907.D
 Acq: 12 Feb 2020 2:18

Instrument :
 BNA_F
 ClientSampleId :
 TP9-EP1-2.5DL

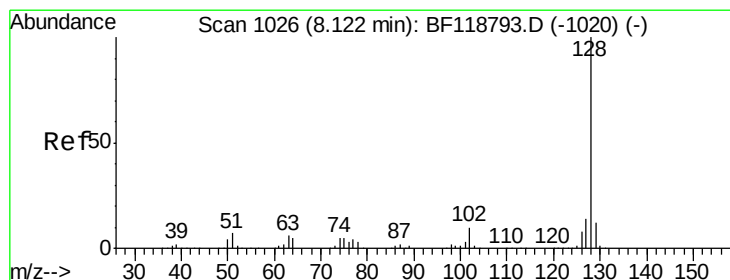
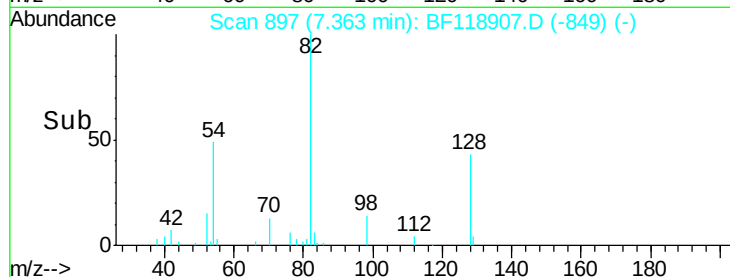
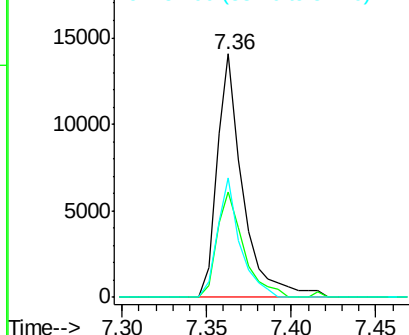
Tot Ion	82	Resp	14932
Ion Ratio	100	Lower	Upper
82	100		
128	43.4	38.5	57.7
54	48.8	36.7	55.1

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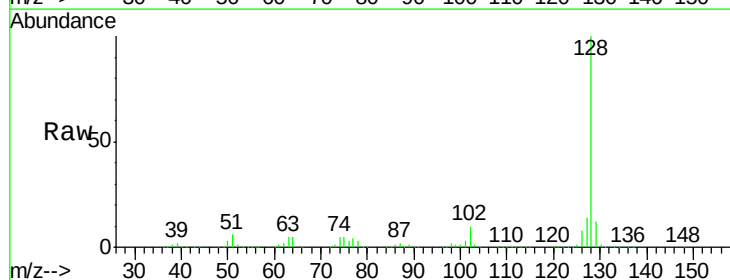


Abundance Ion 82.00 (81.70 to 82.70): BF1
 Ion 128.00 (127.70 to 128.70): E
 Ion 54.00 (53.70 to 54.70): BF1

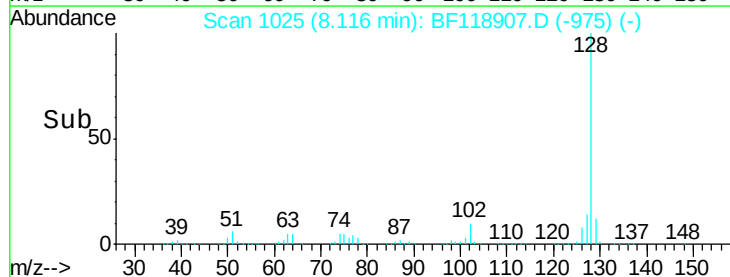
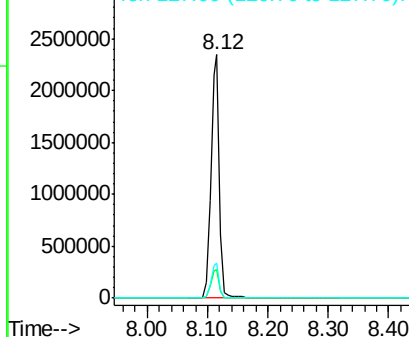


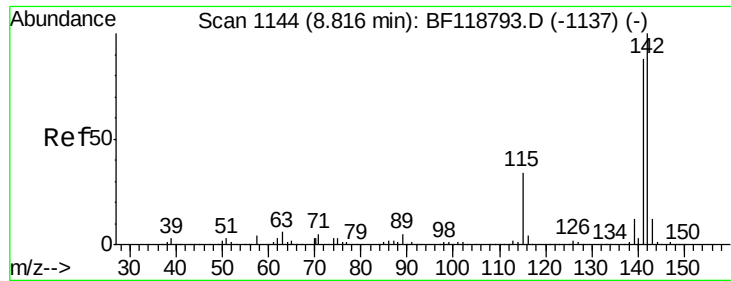
#31
 Naphthalene
 Concen: 64.614 ng
 RT: 8.12 min Scan# 1025
 Delta R.T. -0.01 min
 Lab File: BF118907.D
 Acq: 12 Feb 2020 2:18

Tgt Ion	128	Resp	2268198
Ion Ratio	100	Lower	Upper
128	100		
129	11.7	9.4	14.2
127	14.3	11.3	16.9



Abundance Ion 128.00 (127.70 to 128.70): E
 Ion 129.00 (128.70 to 129.70): E
 Ion 127.00 (126.70 to 127.70): E





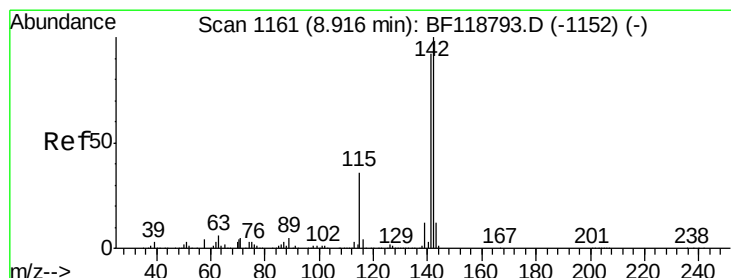
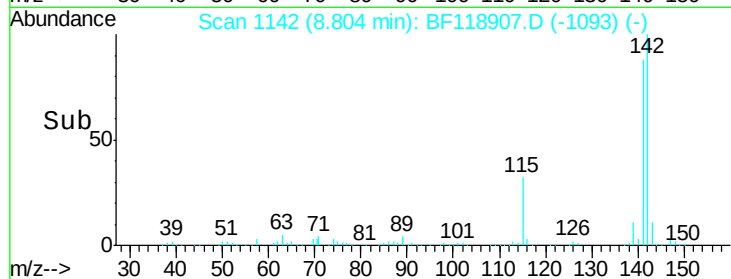
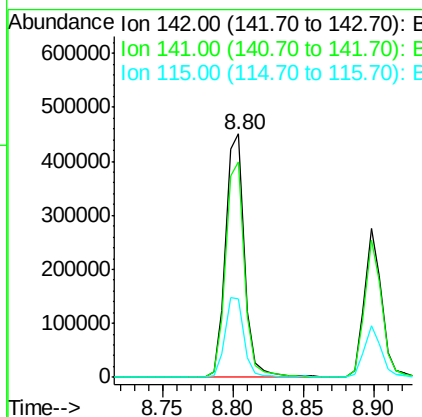
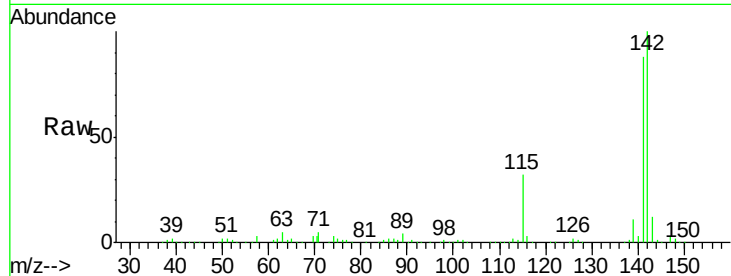
#37
2-Methylnaphthalene
Concen: 17.327 ng
RT: 8.80 min Scan# 1142
Delta R.T. -0.01 min
Lab File: BF118907.D
Acq: 12 Feb 2020 2:18

Instrument :
BNA_F
ClientSampleId :
TP9-EP1-2.5DL

Tot Ion	Ratio	Lower	Upper
142	100		
141	88.4	70.1	105.1
115	32.2	27.3	40.9

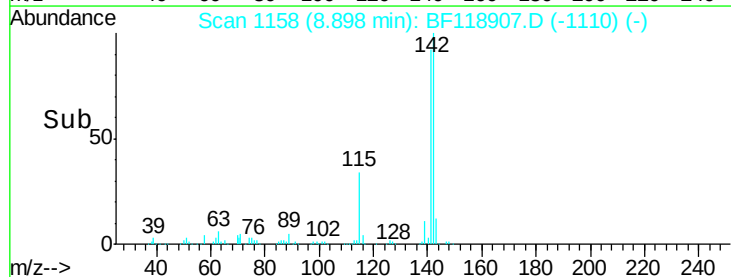
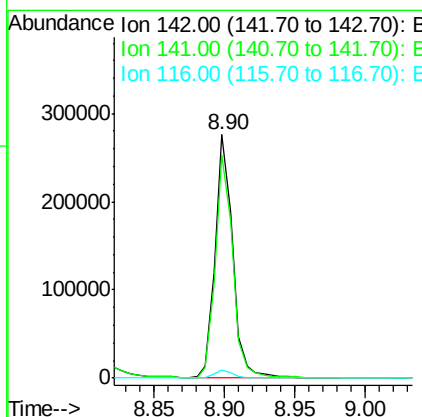
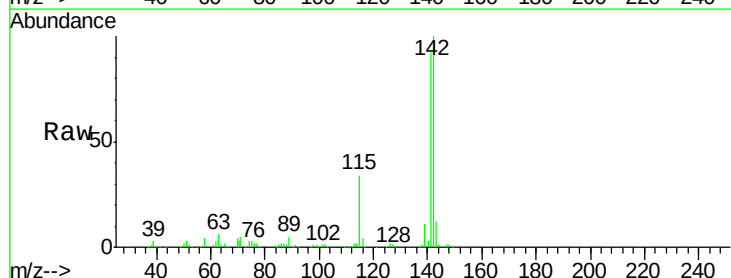
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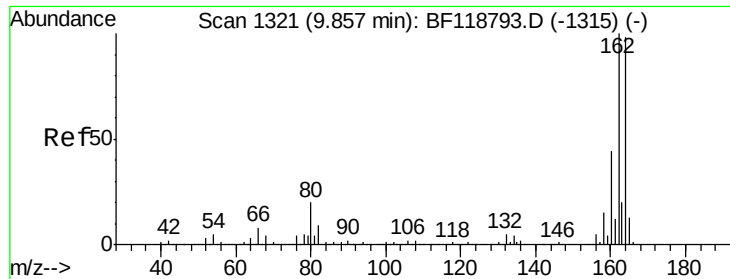
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#38
1-Methylnaphthalene
Concen: 10.361 ng
RT: 8.90 min Scan# 1158
Delta R.T. -0.02 min
Lab File: BF118907.D
Acq: 12 Feb 2020 2:18

Tgt Ion	Ratio	Lower	Upper
142	100		
141	91.8	73.8	110.6
116	3.6	3.0	4.4





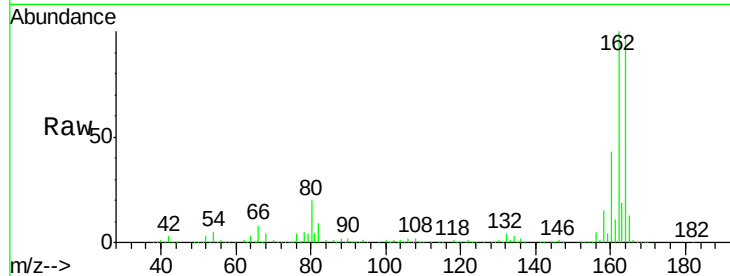
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.84 min Scan# 1318
Delta R.T. -0.02 min
Lab File: BF118907.D
Acq: 12 Feb 2020 2:18

Instrument :
BNA_F
ClientSampleId :
TP9-EP1-2.5DL

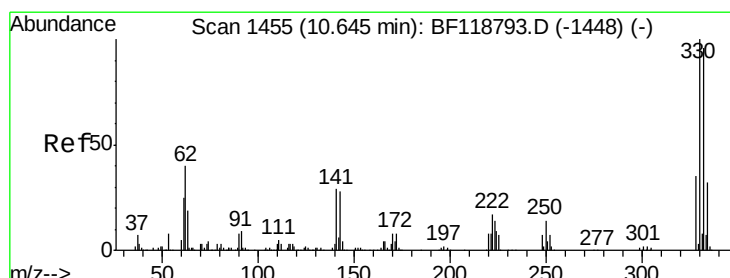
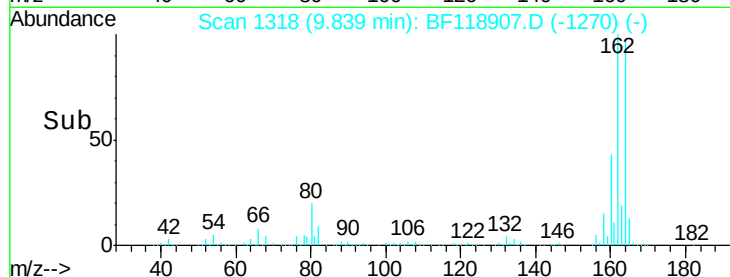
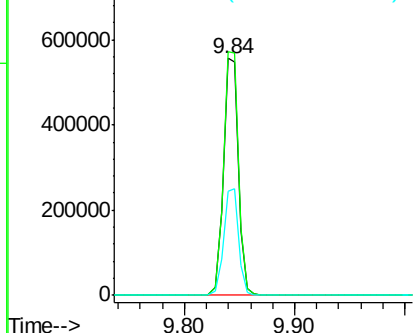
Tot Ion	Ratio	Lower	Upper
164	100		
162	102.9	81.4	122.2
160	43.9	35.6	53.4

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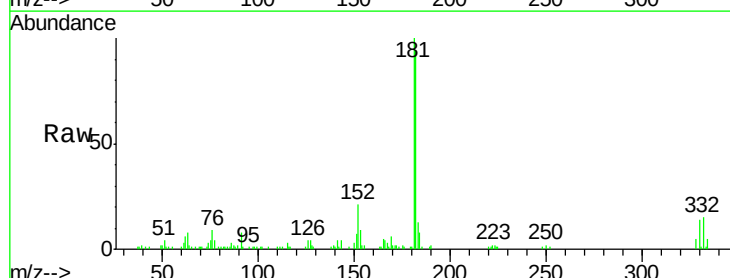


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

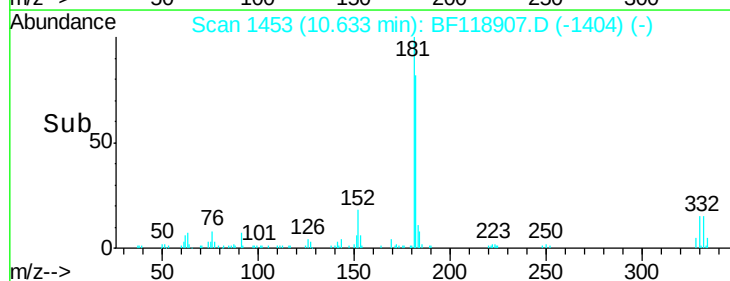
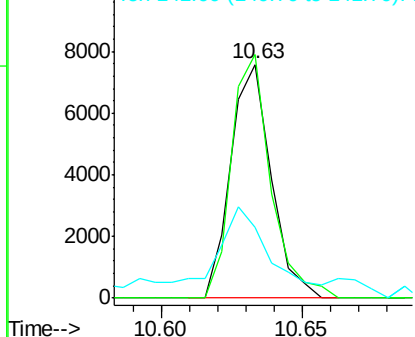


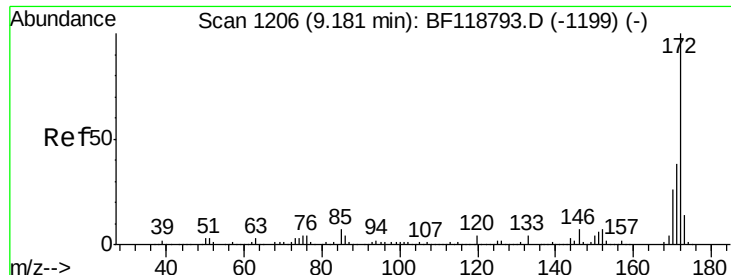
#42
2,4,6-Tribromophenol
Concen: 1.188 ng
RT: 10.63 min Scan# 1453
Delta R.T. -0.01 min
Lab File: BF118907.D
Acq: 12 Feb 2020 2:18

Tgt Ion	Ratio	Lower	Upper
330	100		
332	101.5	77.3	115.9
141	40.0	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





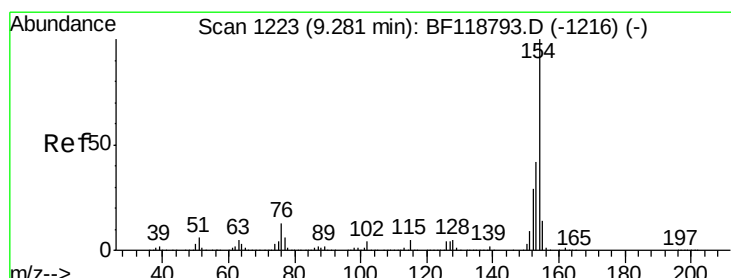
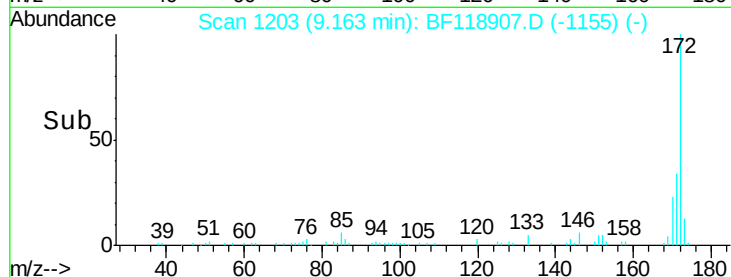
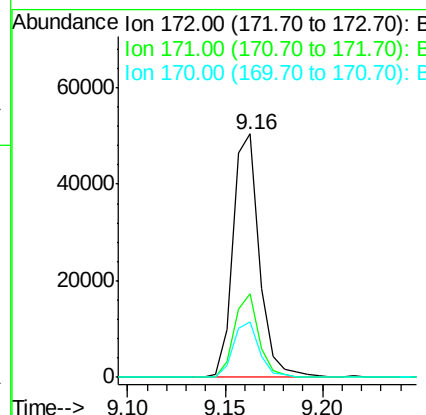
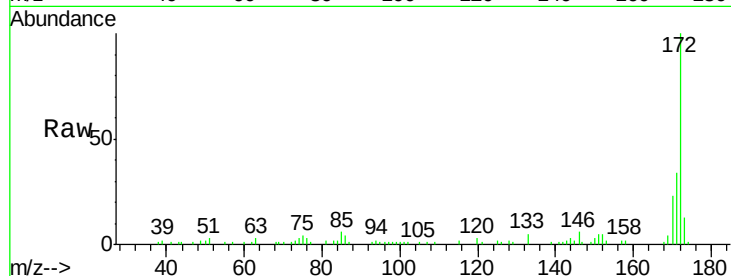
#45
2-Fluorobiphenyl
Concen: 1.590 ng
RT: 9.16 min Scan# 1203
Delta R.T. -0.02 min
Lab File: BF118907.D
Acq: 12 Feb 2020 2:18

Instrument :
BNA_F
ClientSampleId :
TP9-EP1-2.5DL

Tot Ion	Ratio	Lower	Upper
172	100		
171	34.1	30.8	46.2
170	23.0	20.5	30.7

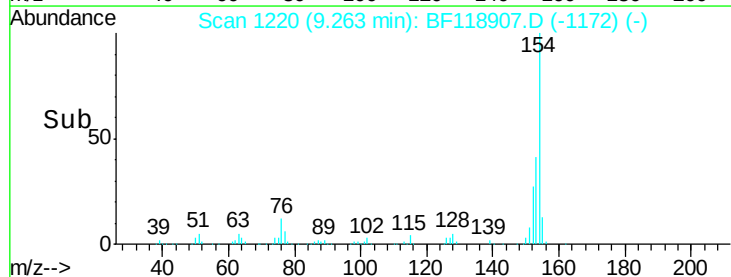
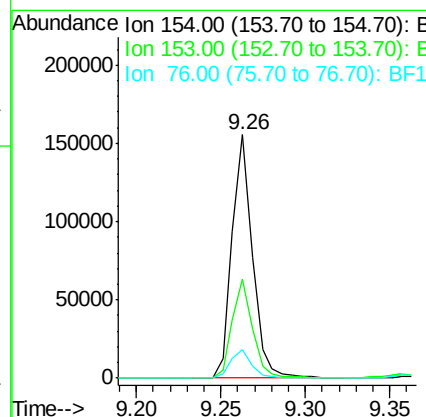
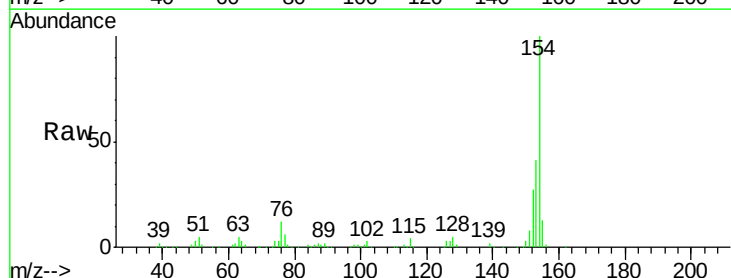
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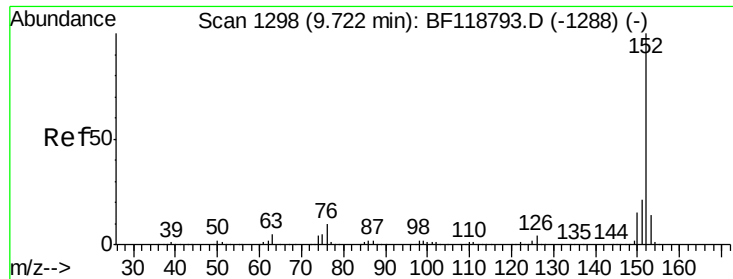
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#46
1,1'-Biphenyl
Concen: 3.588 ng
RT: 9.26 min Scan# 1220
Delta R.T. -0.02 min
Lab File: BF118907.D
Acq: 12 Feb 2020 2:18

Tgt Ion	Ratio	Lower	Upper
154	100		
153	40.6	22.4	62.4
76	11.9	0.0	32.7





#49

Acenaphthylene

Concen: 5.928 ng

RT: 9.70 min Scan# 1295

Delta R.T. -0.02 min

Lab File: BF118907.D

Acq: 12 Feb 2020 2:18

Instrument :

BNA_F

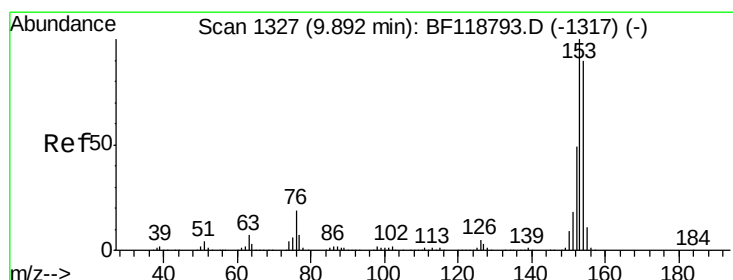
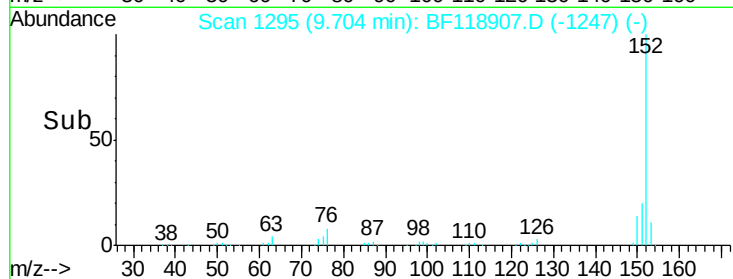
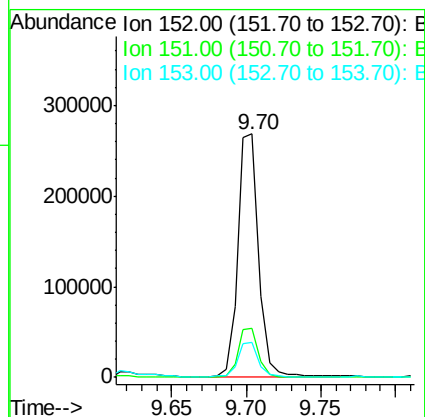
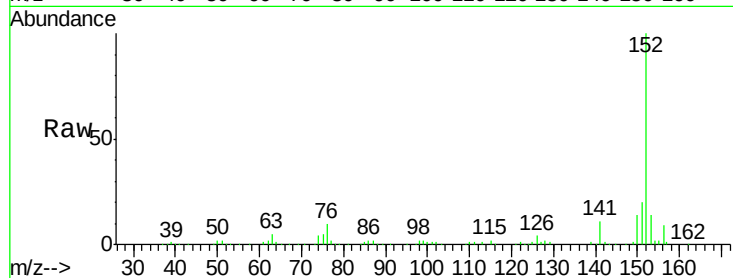
ClientSampleId :

TP9-EP1-2.5DL

Tot Ion:	152	Resp:	260827
Ion Ratio	Lower	Upper	
152	100		
151	20.3	17.1	25.7
153	14.2	11.0	16.4

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#52

Acenaphthene

Concen: 9.509 ng

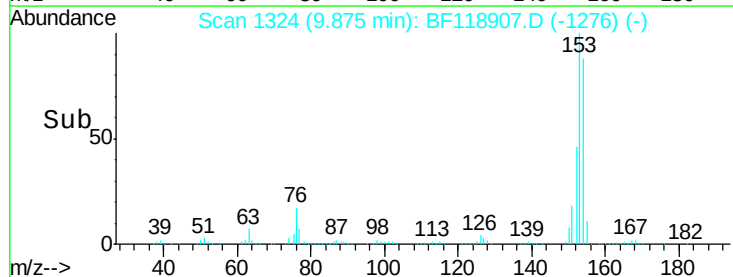
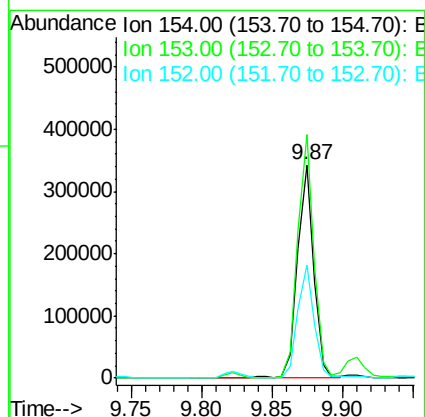
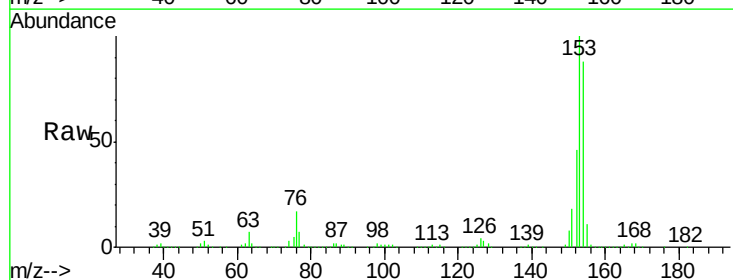
RT: 9.87 min Scan# 1324

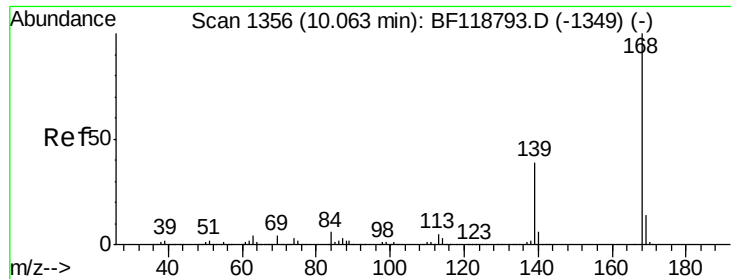
Delta R.T. -0.02 min

Lab File: BF118907.D

Acq: 12 Feb 2020 2:18

Tgt Ion:	154	Resp:	275678
Ion Ratio	Lower	Upper	
154	100		
153	114.0	89.4	134.0
152	52.9	43.6	65.4





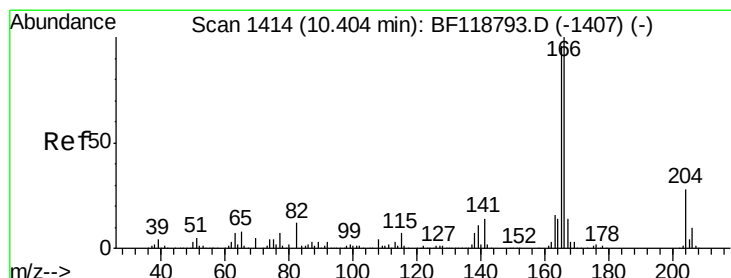
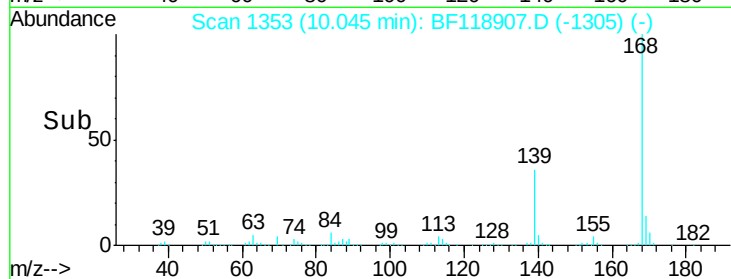
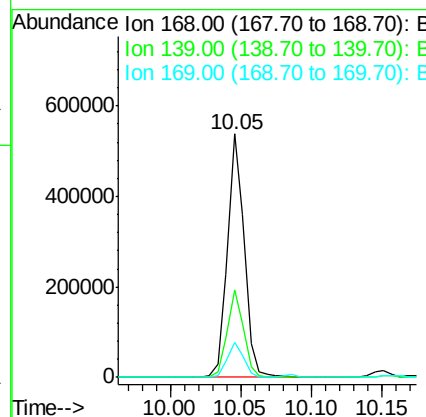
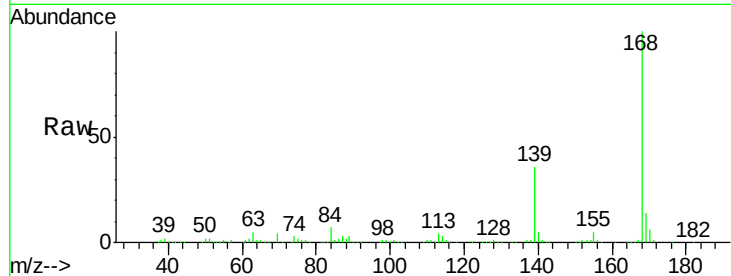
#55
Dibenzenofuran
Concen: 10.600 ng
RT: 10.05 min Scan# 1353
Delta R.T. -0.02 min
Lab File: BF118907.D
Acq: 12 Feb 2020 2:18

Instrument :
BNA_F
ClientSampleId :
TP9-EP1-2.5DL

Tot Ion	Ratio	Lower	Upper
168	100		
139	35.9	31.6	47.4
169	14.4	11.4	17.2

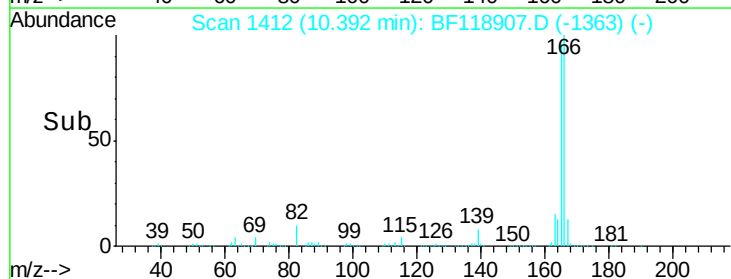
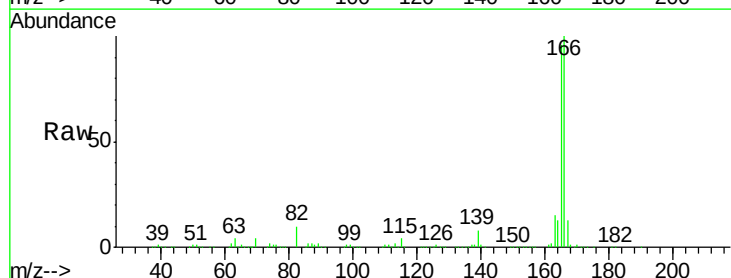
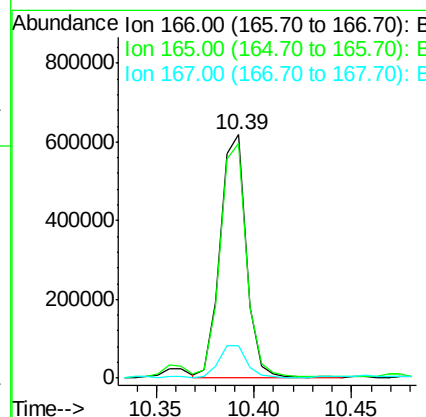
Manual Integrations
APPROVED

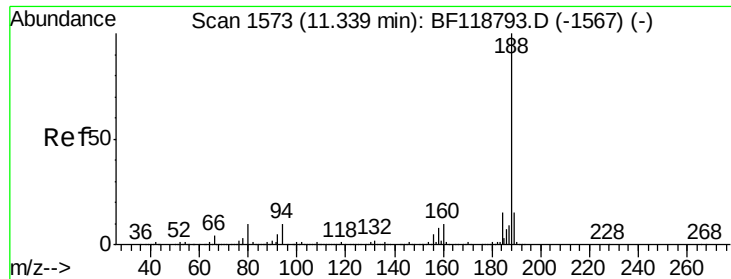
mohammad
2/12/2020 3:51:38 PM



#58
Fluorene
Concen: 18.242 ng
RT: 10.39 min Scan# 1412
Delta R.T. -0.01 min
Lab File: BF118907.D
Acq: 12 Feb 2020 2:18

Tgt Ion	Ratio	Lower	Upper
166	100		
165	96.4	77.0	115.6
167	13.1	11.1	16.7





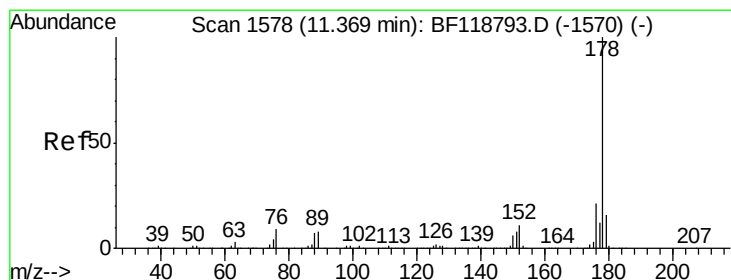
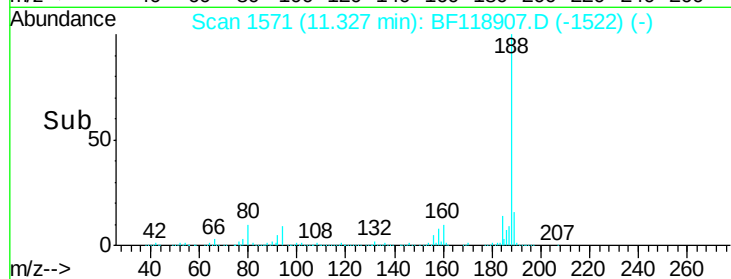
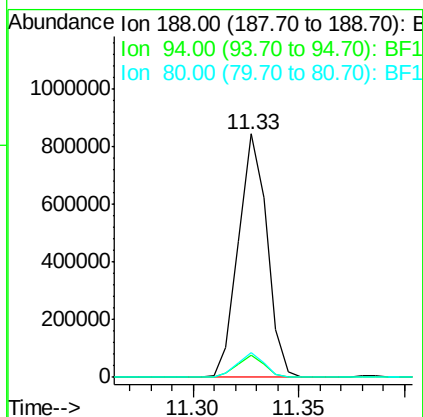
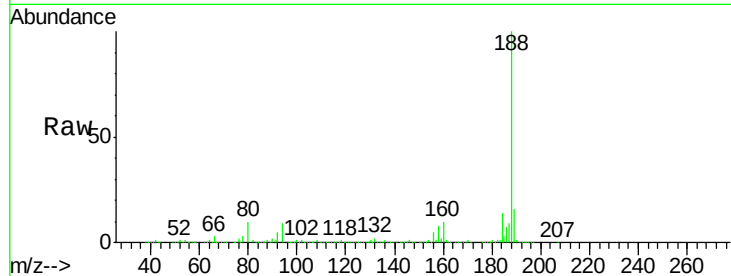
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.33 min Scan# 1571
Delta R.T. -0.01 min
Lab File: BF118907.D
Acq: 12 Feb 2020 2:18

Instrument :
BNA_F
ClientSampleId :
TP9-EP1-2.5DL

Tot Ion	Ratio	Resp	Lower	Upper
188	100	791753		
94	9.0		7.9	11.9
80	10.0		8.4	12.6

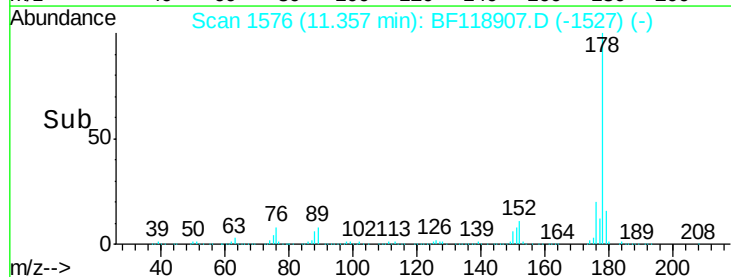
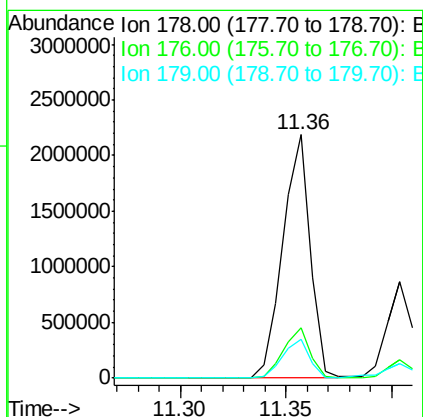
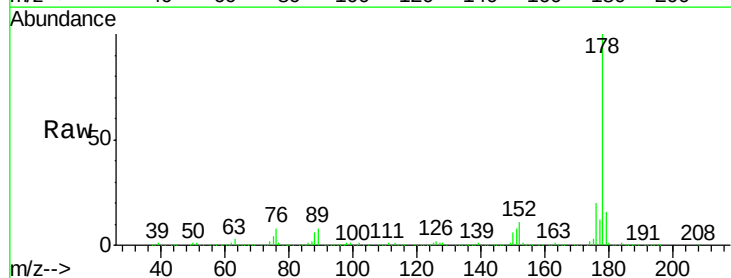
Manual Integrations
APPROVED

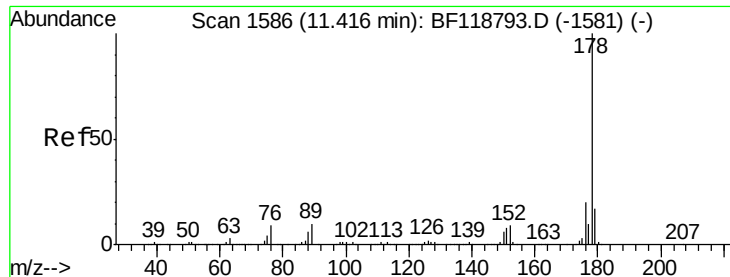
mohammad
2/12/2020 3:51:38 PM



#71
Phenanthrene
Concen: 50.773 ng
RT: 11.36 min Scan# 1576
Delta R.T. -0.01 min
Lab File: BF118907.D
Acq: 12 Feb 2020 2:18

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	1977876		
176	20.4		16.6	24.8
179	15.9		13.2	19.8





#72

Anthracene

Concen: 17.827 ng

RT: 11.40 min Scan# 1584

Delta R.T. -0.01 min

Lab File: BF118907.D

Acq: 12 Feb 2020 2:18

Instrument :

BNA_F

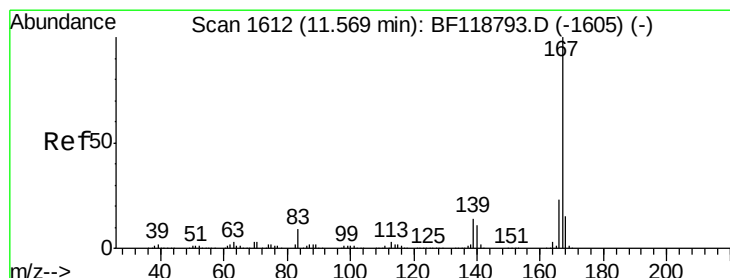
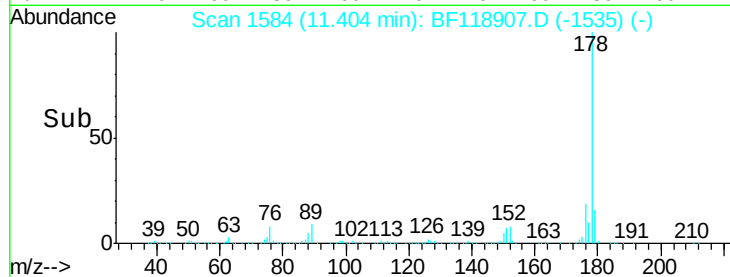
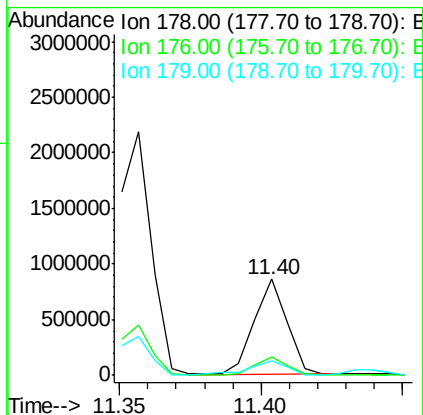
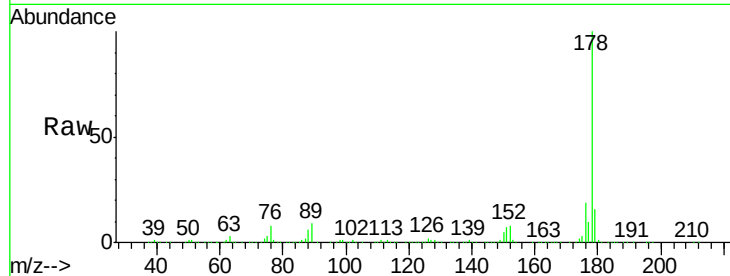
ClientSampleId :

TP9-EP1-2.5DL

Tot Ion:	178	Resp:	690857
Ion Ratio	Lower	Upper	
178	100		
176	18.8	16.2	24.2
179	15.7	13.4	20.2

Manual Integrations
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#73

Carbazole

Concen: 7.641 ng

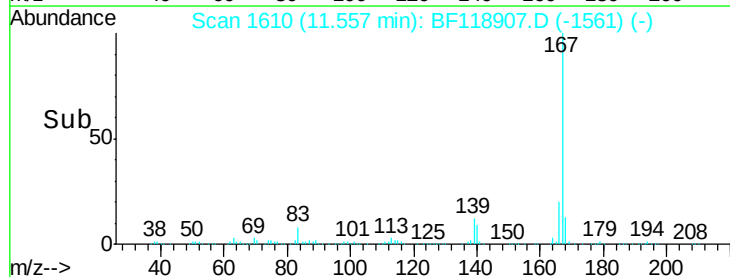
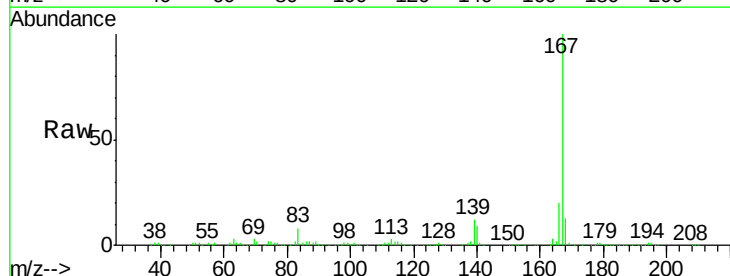
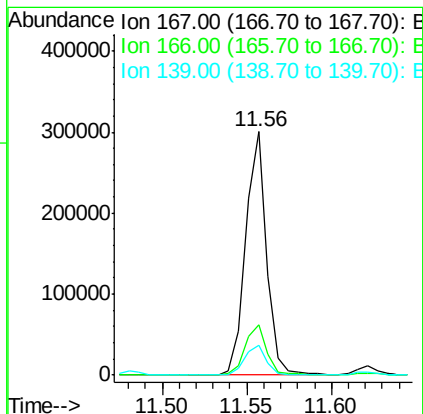
RT: 11.56 min Scan# 1610

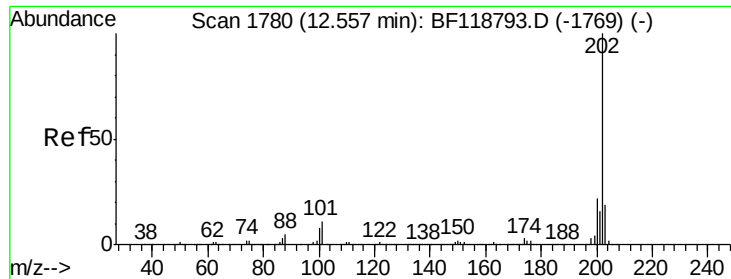
Delta R.T. -0.01 min

Lab File: BF118907.D

Acq: 12 Feb 2020 2:18

Tgt Ion:	167	Resp:	259869
Ion Ratio	Lower	Upper	
167	100		
166	20.5	18.4	27.6
139	12.2	11.1	16.7





#75

Fluoranthene

Concen: 32.609 ng

RT: 12.54 min Scan# 1778

Delta R.T. -0.01 min

Lab File: BF118907.D

Acq: 12 Feb 2020 2:18

Instrument :

BNA_F

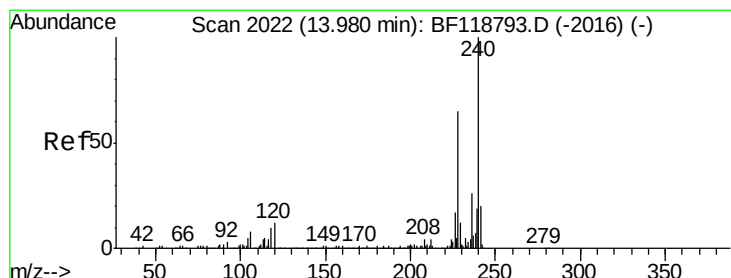
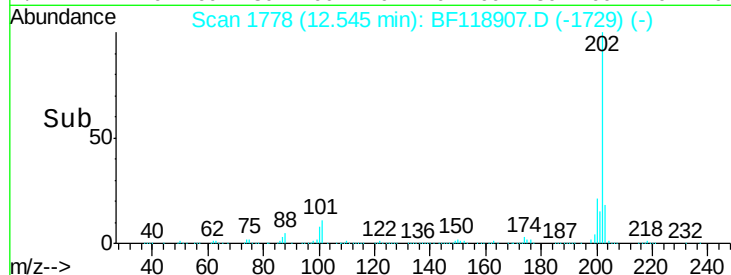
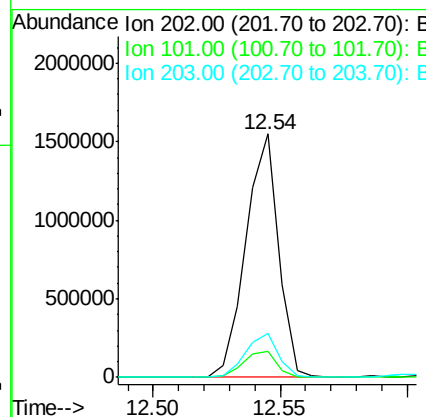
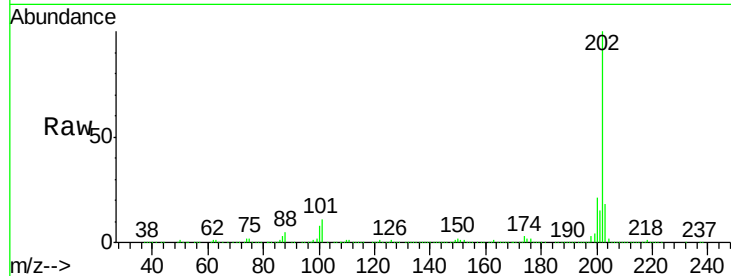
ClientSampleId :

TP9-EP1-2.5DL

Tot Ion:	202	Resp:	1386923
Ion Ratio	Lower	Upper	
202	100		
101	10.5	0.0	31.0
203	18.1	0.0	38.7

Manual Integrations
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#76

Chrysene-d12

Concen: 20.000 ng

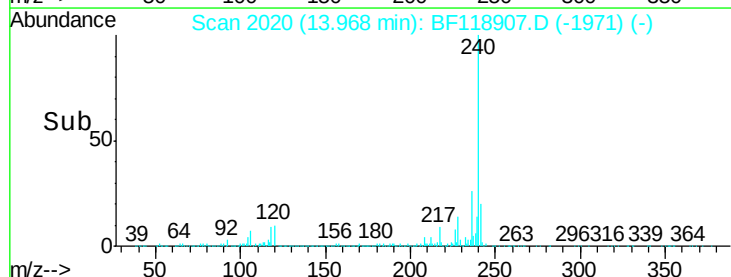
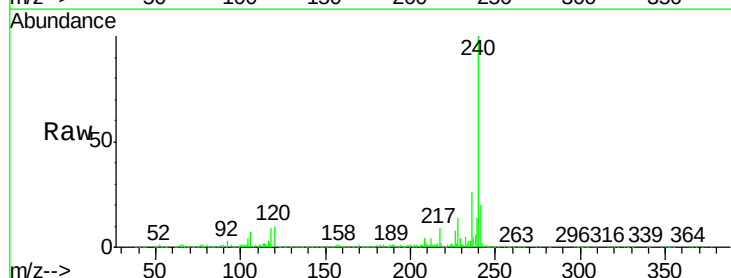
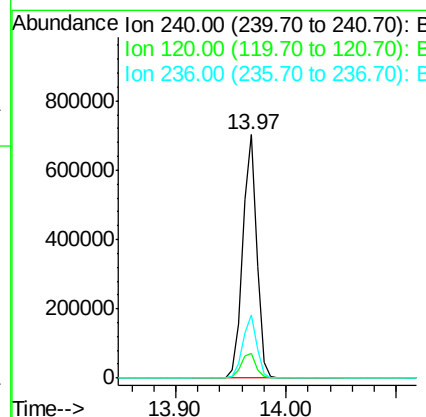
RT: 13.97 min Scan# 2020

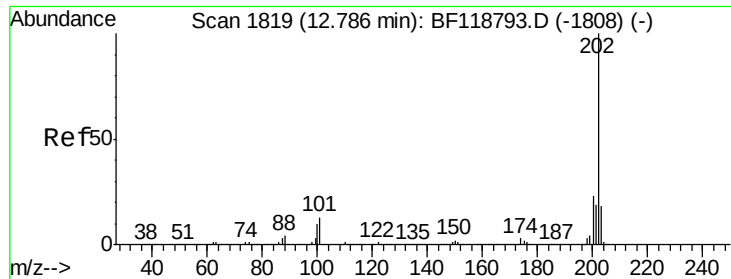
Delta R.T. -0.01 min

Lab File: BF118907.D

Acq: 12 Feb 2020 2:18

Tgt Ion:	240	Resp:	627509
Ion Ratio	Lower	Upper	
240	100		
120	10.0	9.4	14.0
236	26.0	21.0	31.6





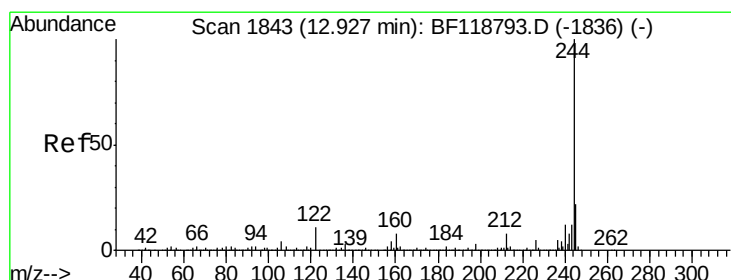
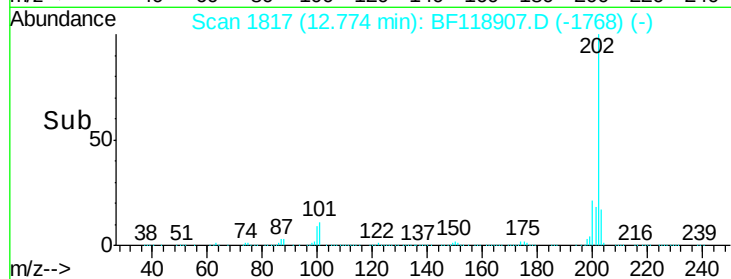
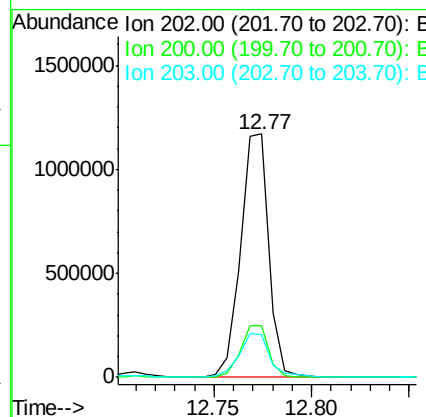
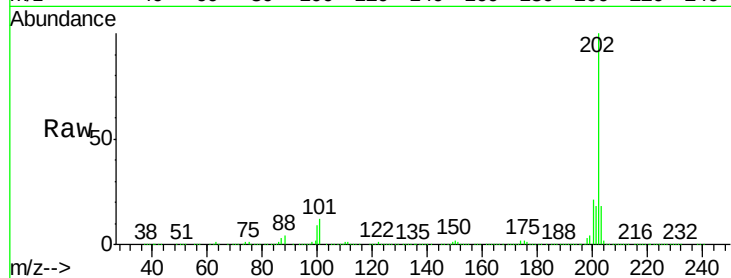
#78
Pvrene
Concen: 27.053 ng
RT: 12.77 min Scan# 1817
Delta R.T. -0.01 min
Lab File: BF118907.D
Acq: 12 Feb 2020 2:18

Instrument :
BNA_F
ClientSampleId :
TP9-EP1-2.5DL

Tot Ion	Ratio	Lower	Upper
202	100		
200	21.4	18.2	27.2
203	17.7	14.8	22.2

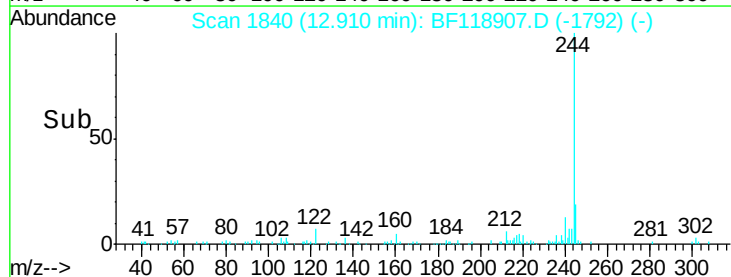
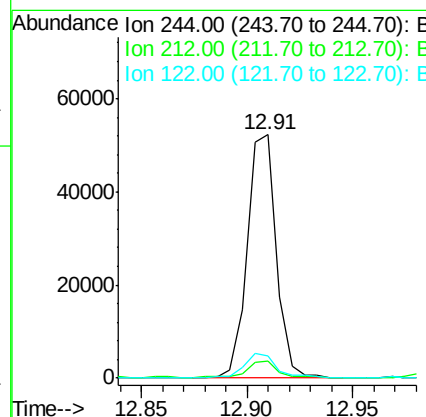
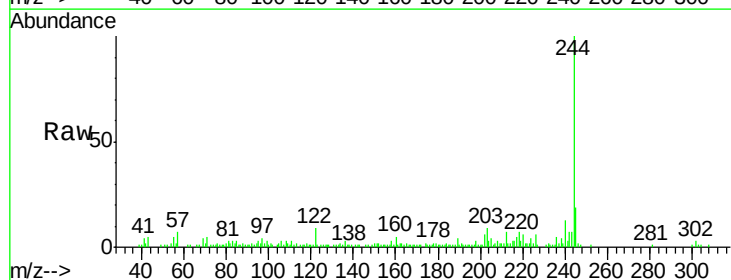
Manual Integrations
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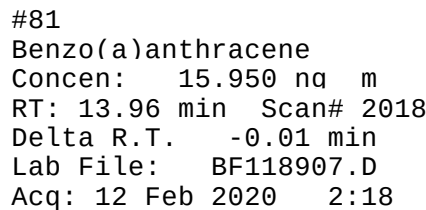
mohammad
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#79
Terphenyl-d14
Concen: 1.625 ng
RT: 12.91 min Scan# 1840
Delta R.T. -0.02 min
Lab File: BF118907.D
Acq: 12 Feb 2020 2:18

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.9	6.5	9.7
122	9.0	8.9	13.3



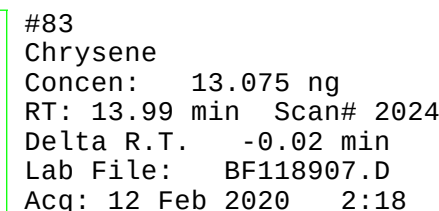
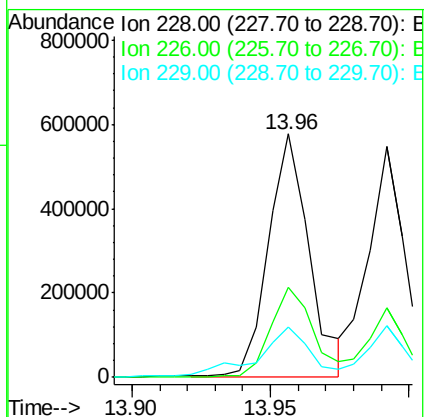


Instrument :
BNA_F
ClientSampleId :
TP9-EP1-2.5DL

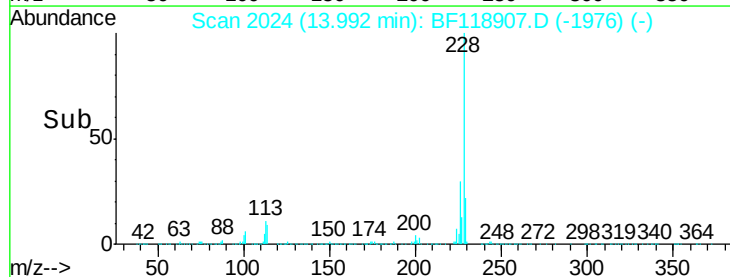
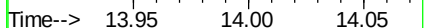
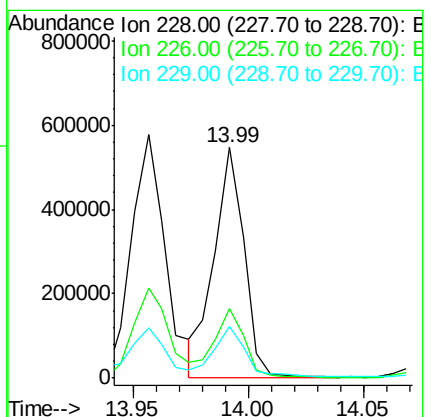
Manual Integrations APPROVED

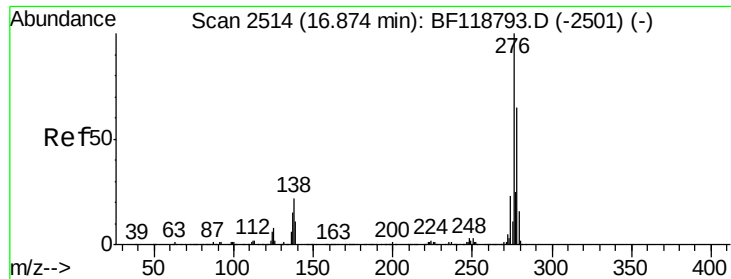
mohammad
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Tot	Ion:228	Resp:	595593
Ion	Ratio	Lower	Upper
228	100		
226	36.7	22.7	34.1#
229	20.6	16.6	25.0



Tgt	Ion:228	Resp:	490026
Ion	Ratio	Lower	Upper
228	100		
226	30.3	25.4	38.0
229	22.4	16.9	25.3





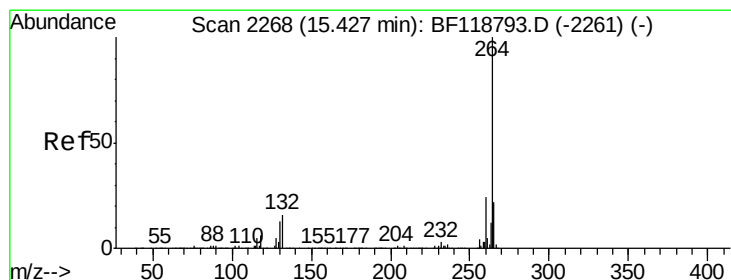
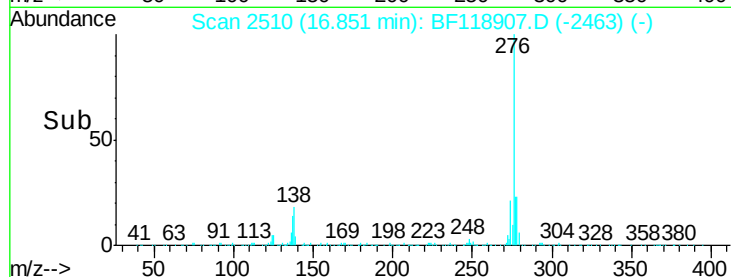
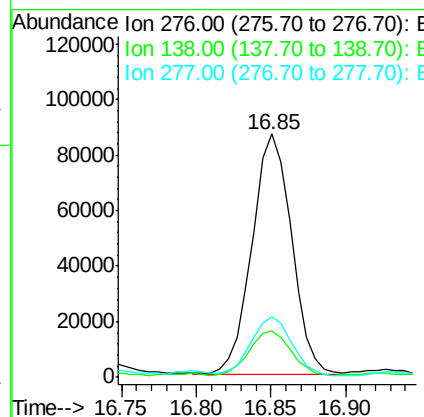
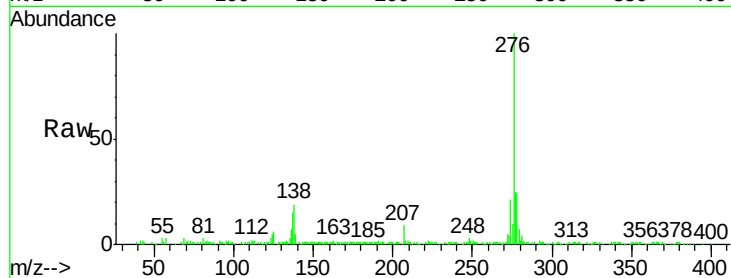
#86
 Indeno(1,2,3-cd)pyrene
 Concen: 4.192 ng
 RT: 16.85 min Scan# 2510
 Delta R.T. -0.02 min
 Lab File: BF118907.D
 Acq: 12 Feb 2020 2:18

Instrument :
 BNA_F
 ClientSampleId :
 TP9-EP1-2.5DL

Tot Ion	Ratio	Lower	Upper
276	100		
138	19.6	18.3	27.5
277	25.0	20.2	30.4

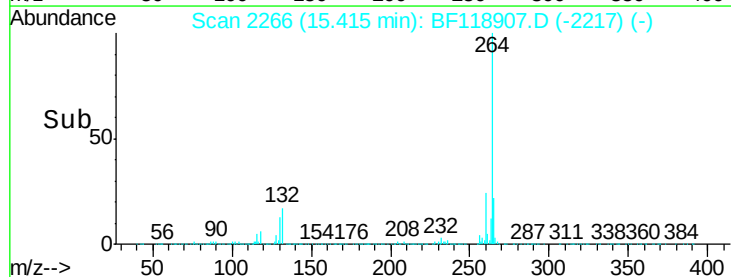
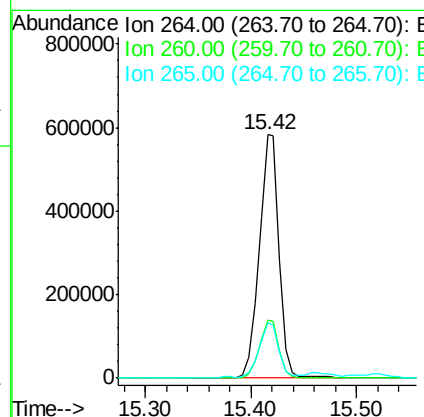
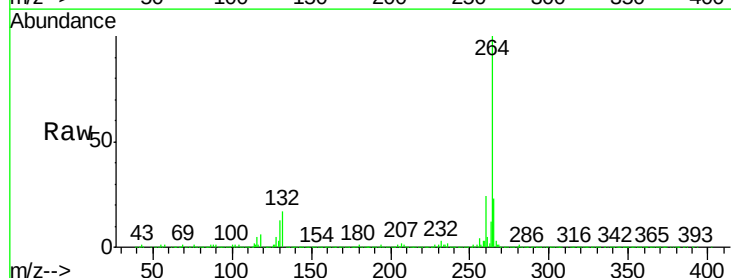
Manual Integrations
 APPROVED

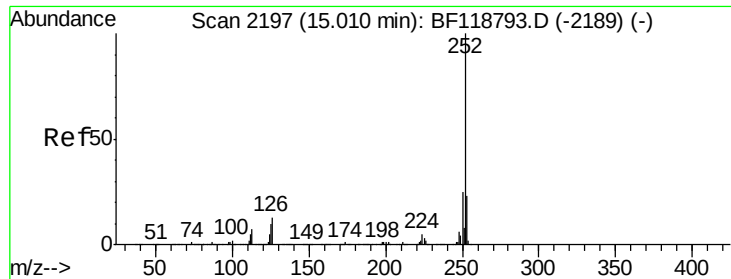
mohammad
 2/12/2020 3:51:38 PM



#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.42 min Scan# 2266
 Delta R.T. -0.01 min
 Lab File: BF118907.D
 Acq: 12 Feb 2020 2:18

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.9	19.1	28.7
265	22.6	17.2	25.8





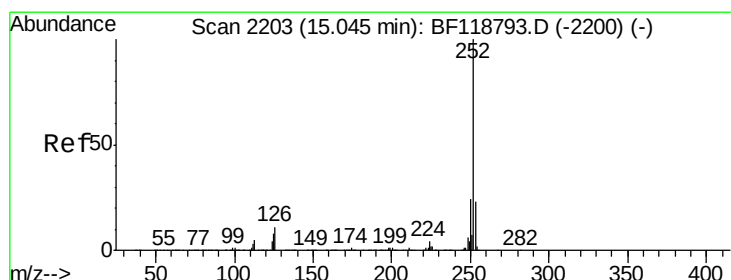
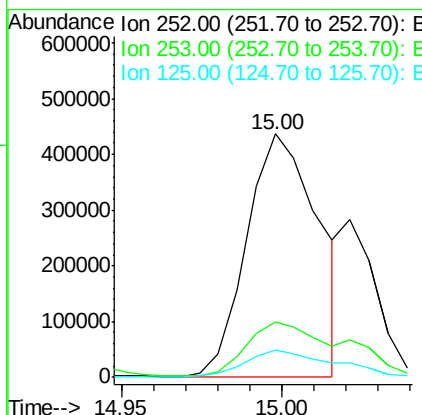
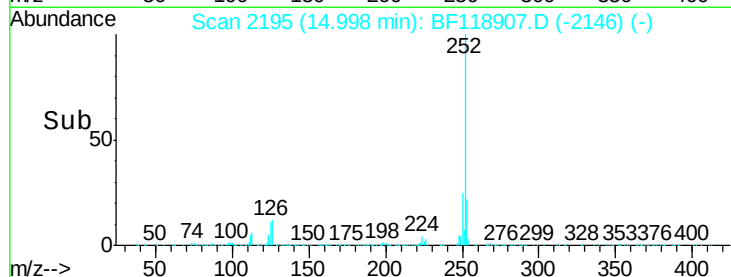
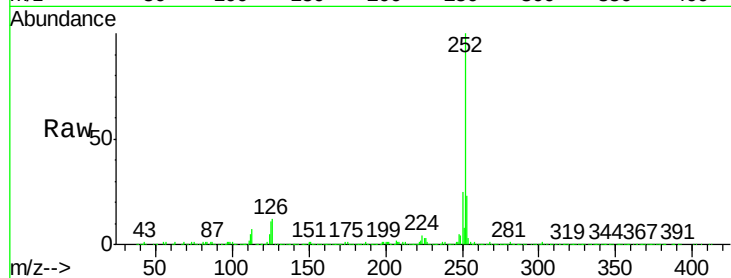
#88
Benzo(b)fluoranthene
Concen: 14.275 ng m
RT: 15.00 min Scan# 2195
Delta R.T. -0.01 min
Lab File: BF118907.D
Acq: 12 Feb 2020 2:18

Instrument :
BNA_F
ClientSampleId :
TP9-EP1-2.5DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.8	18.4	27.6
125	11.0	8.1	12.1

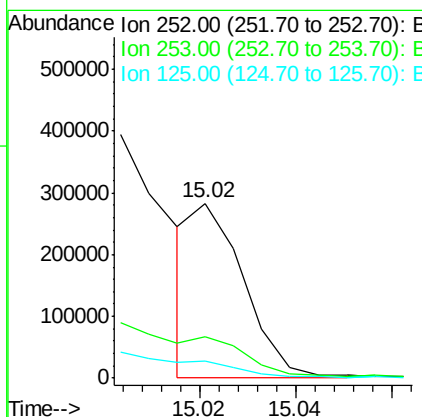
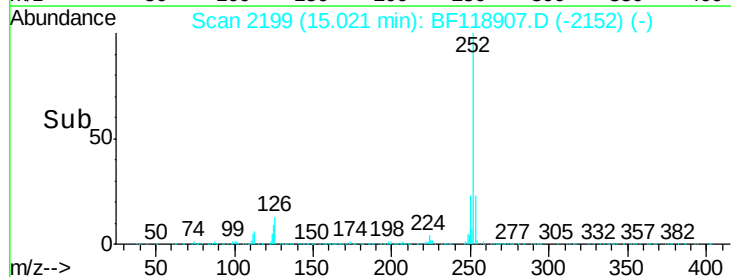
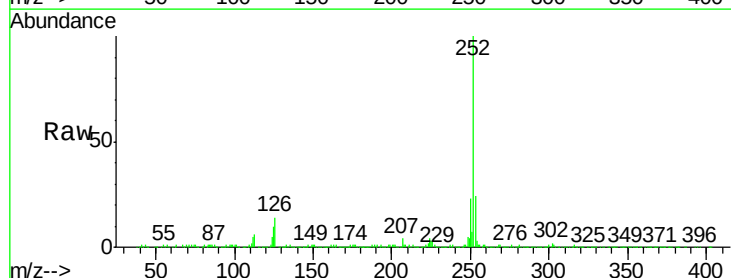
Manual Integrations
APPROVED

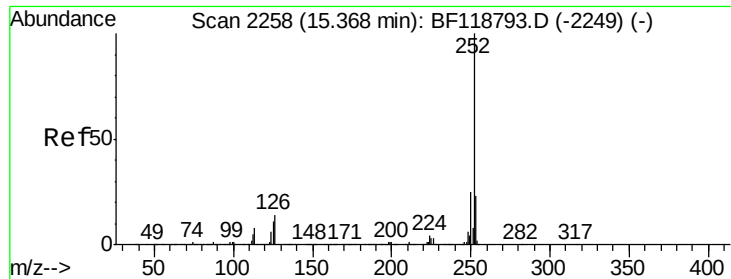
mohammad
2/12/2020 3:51:38 PM



#89
Benzo(k)fluoranthene
Concen: 5.094 ng m
RT: 15.02 min Scan# 2199
Delta R.T. -0.02 min
Lab File: BF118907.D
Acq: 12 Feb 2020 2:18

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.0	18.2	27.4
125	9.5	7.0	10.6





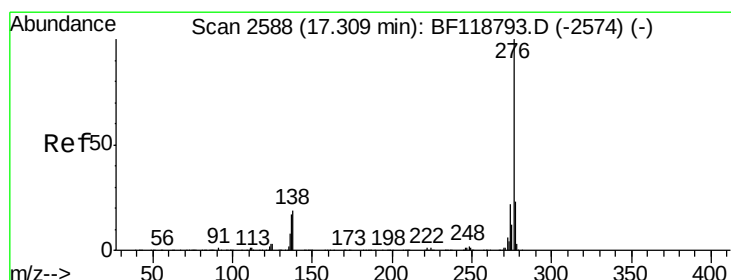
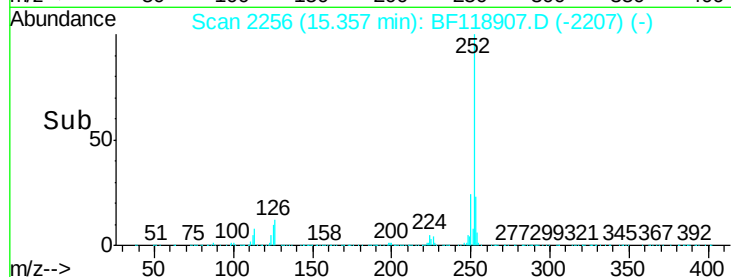
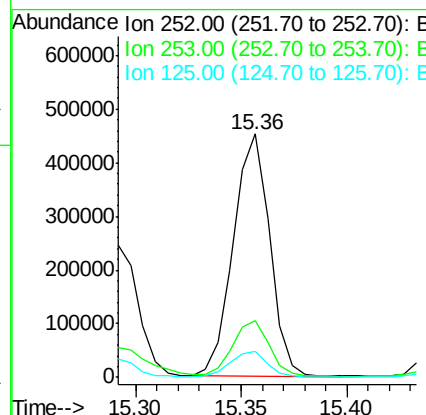
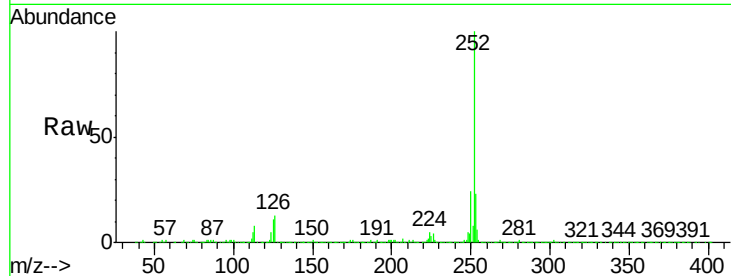
#90
Benzo(a)pyrene
Concen: 13.211 ng
RT: 15.36 min Scan# 2256
Delta R.T. -0.01 min
Lab File: BF118907.D
Acq: 12 Feb 2020 2:18

Instrument :
BNA_F
ClientSampleId :
TP9-EP1-2.5DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.3	18.1	27.1
125	10.5	8.7	13.1

Manual Integrations
APPROVED

mohammad
2/12/2020 3:51:38 PM



#92
Benzo(g,h,i)perylene
Concen: 3.928 ng
RT: 17.29 min Scan# 2584
Delta R.T. -0.02 min
Lab File: BF118907.D
Acq: 12 Feb 2020 2:18

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.1	18.7	28.1
138	19.0	15.4	23.2

