

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021120\
 Data File : BF118903.D
 Acq On : 12 Feb 2020 00:24
 Operator : CG/JU
 Sample : L1468-02DL 5X
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP11-EP2-3DL

Manual Integrations
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Quant Time: Feb 12 08:12:18 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	302134	20.00	ng	-0.01
21) Naphthalene-d8	8.09	136	1225181	20.00	ng	-0.02
39) Acenaphthene-d10	9.85	164	722917	20.00	ng	-0.01
64) Phenanthrene-d10	11.33	188	1118137	20.00	ng	0.00
76) Chrysene-d12	13.97	240	756232	20.00	ng	0.00
87) Perylene-d12	15.42	264	722532	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.42	112	329860	20.67	ng	-0.01
7) Phenol-d6	6.44	99	431982	21.80	ng	-0.01
23) Nitrobenzene-d5	7.36	82	277155	13.48	ng	-0.02
42) 2,4,6-Tribromophenol	10.63	330	137649	15.91	ng	-0.01
45) 2-Fluorobiphenyl	9.16	172	649918	16.07	ng	-0.02
79) Terphenyl-d14	12.91	244	683799	18.57	ng	-0.02
Target Compounds						Qvalue
31) Naphthalene	8.11	128	178209	3.180	ng	98
52) Acenaphthene	9.87	154	92017	2.326	ng	99
55) Dibenzofuran	10.05	168	154102	2.696	ng	94
58) Fluorene	10.39	166	173217	4.028	ng	97
71) Phenanthrene	11.36	178	1772954	32.227	ng	99
72) Anthracene	11.40	178	418050	7.639	ng	96
73) Carbazole	11.56	167	172749	3.597	ng	96
75) Fluoranthene	12.54	202	1505620	25.066	ng	99
78) Pyrene	12.77	202	1287937	24.826	ng	98
81) Benzo(a)anthracene	13.96	228	530049	11.779	ng	97
83) Chrysene	14.00	228	491440	10.881	ng	97
86) Indeno(1,2,3-cd)pyrene	16.86	276	168273	3.708	ng	# 94
88) Benzo(b)fluoranthene	15.00	252	509119m	11.356	ng	
89) Benzo(k)fluoranthene	15.02	252	172923m	4.429	ng	
90) Benzo(a)pyrene	15.36	252	343124	8.943	ng	99
92) Benzo(g,h,i)perylene	17.29	276	144671	4.416	ng	100

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

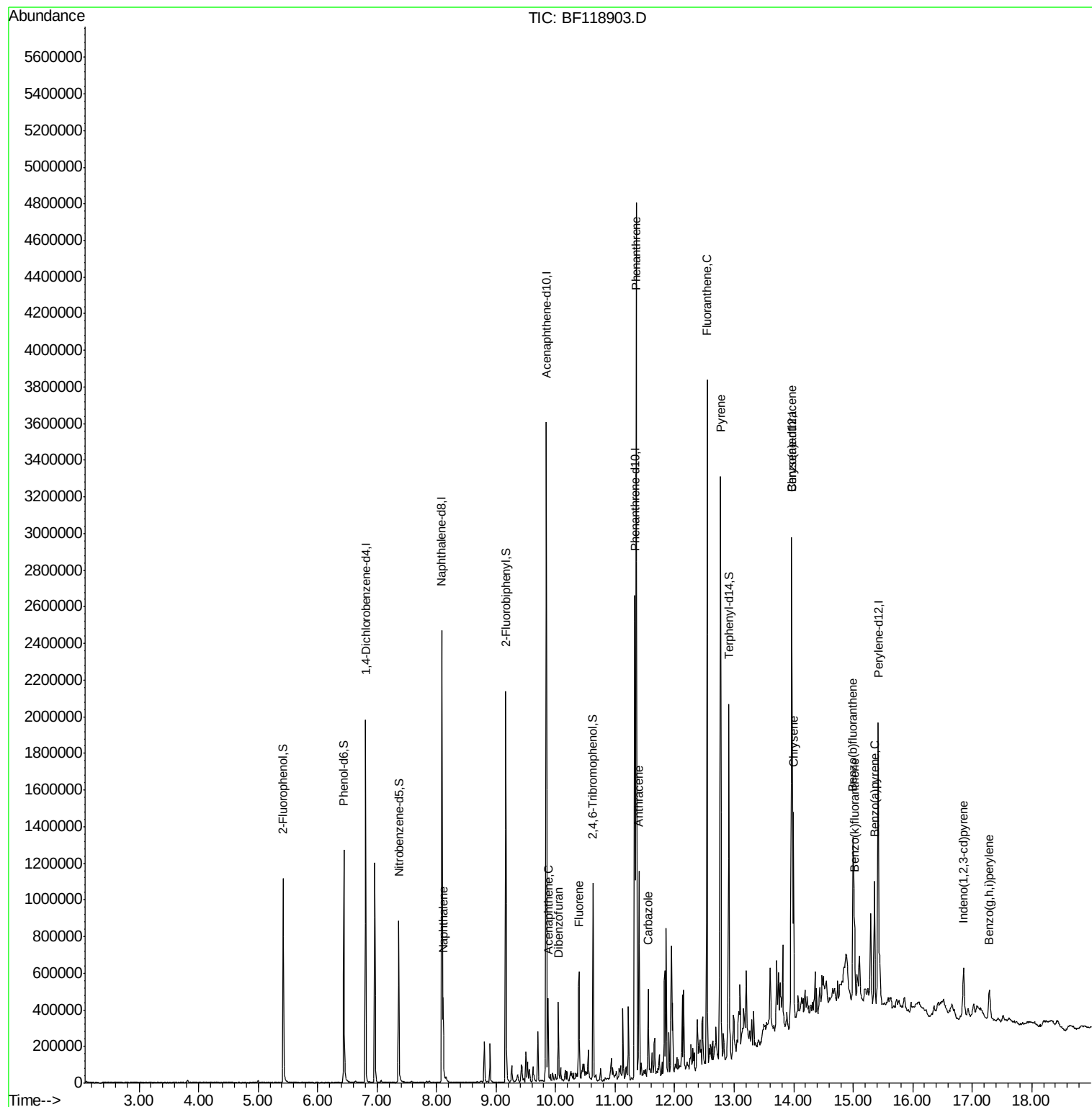
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021120\
Data File : BF118903.D
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ALS Vial : 20 Sample Multiplier: 1

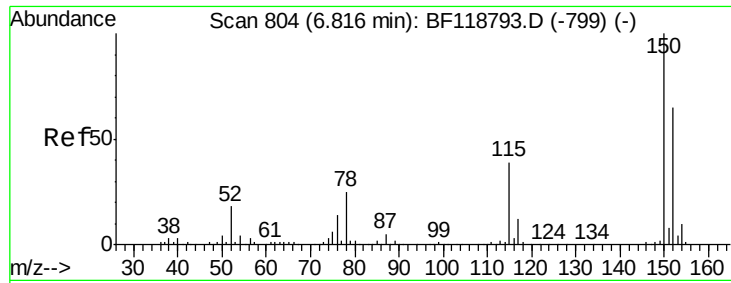
Instrument :
BNA_F
ClientSampleId :
TP11-EP2-3DL

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Quant Time: Feb 12 08:12:18 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

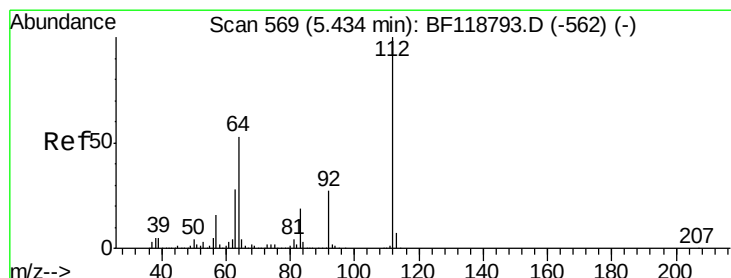
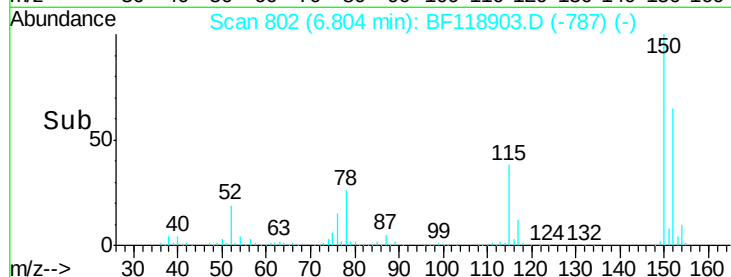
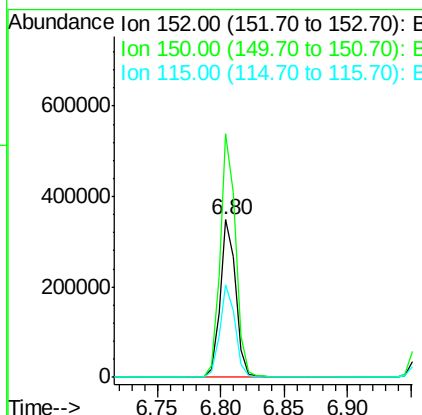
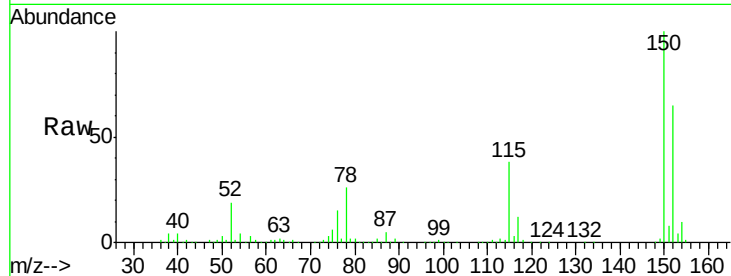
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.80 min Scan# 802
Delta R.T. -0.01 min
Lab File: BF118903.D
Acq: 12 Feb 2020 00:24

Instrument :
BNA_F
ClientSampleId :
TP11-EP2-3DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	154.5	123.6	185.4
115	58.7	48.2	72.2

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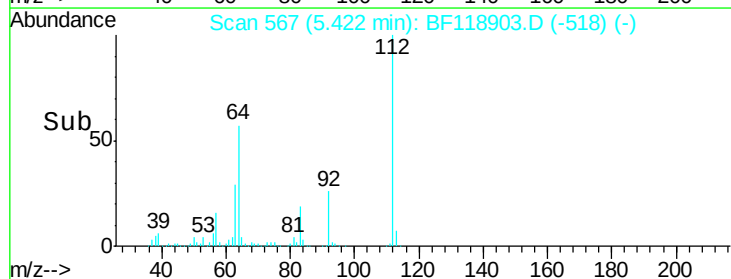
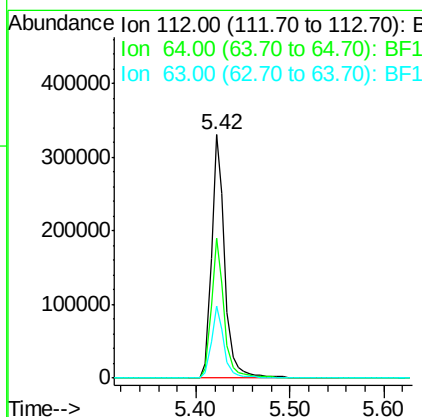
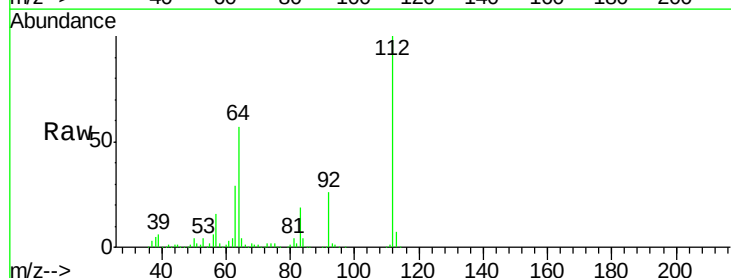
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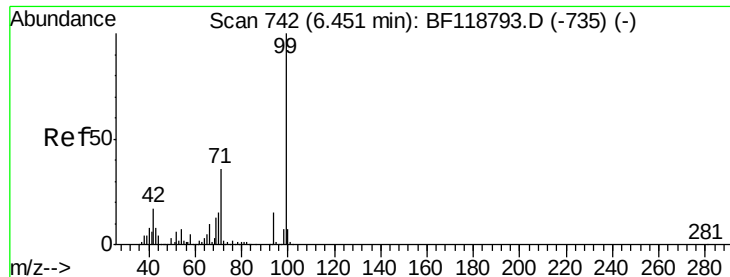


#5

2-Fluorophenol
Concen: 20.666 ng
RT: 5.42 min Scan# 567
Delta R.T. -0.01 min
Lab File: BF118903.D
Acq: 12 Feb 2020 00:24

Tgt Ion	Ratio	Lower	Upper
112	100		
64	57.4	42.6	63.8
63	29.5	22.2	33.4





#7

Phenol-d6

Concen: 21.802 ng

RT: 6.44 min Scan# 740

Delta R.T. -0.01 min

Lab File: BF118903.D

Acq: 12 Feb 2020 00:24

Instrument :

BNA_F

ClientSampleId :

TP11-EP2-3DL

Tot Ion: 99 Resp: 431982

Ion Ratio Lower Upper

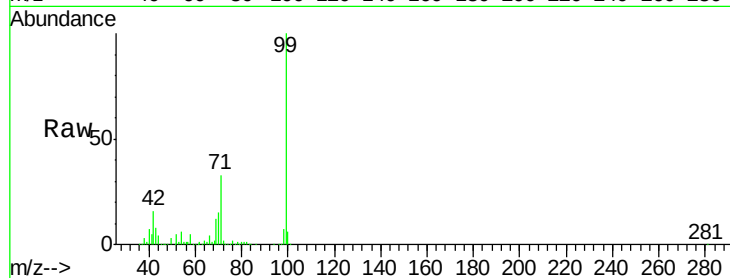
99 100

42 16.0 13.4 20.0

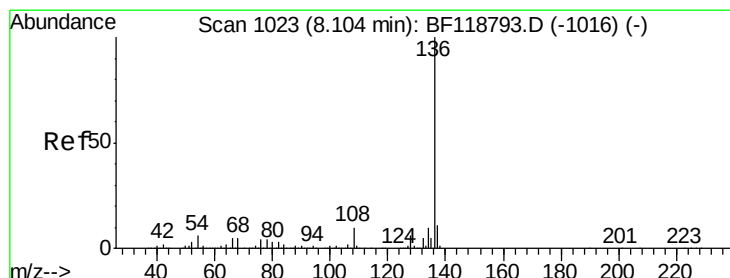
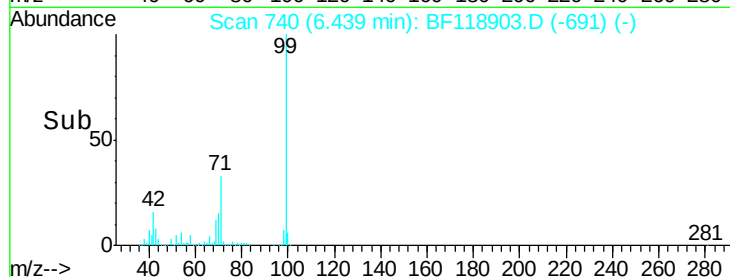
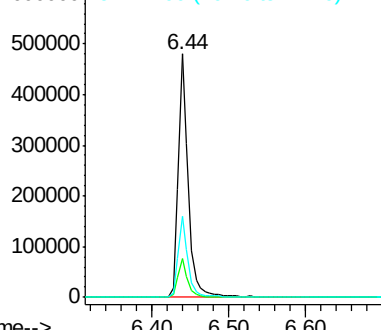
71 33.4 29.0 43.6

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Abundance Ion 99.00 (98.70 to 99.70): BF1
Ion 42.00 (41.70 to 42.70): BF1
Ion 71.00 (70.70 to 71.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.09 min Scan# 1020

Delta R.T. -0.02 min

Lab File: BF118903.D

Acq: 12 Feb 2020 00:24

Tgt Ion: 136 Resp: 1225181

Ion Ratio Lower Upper

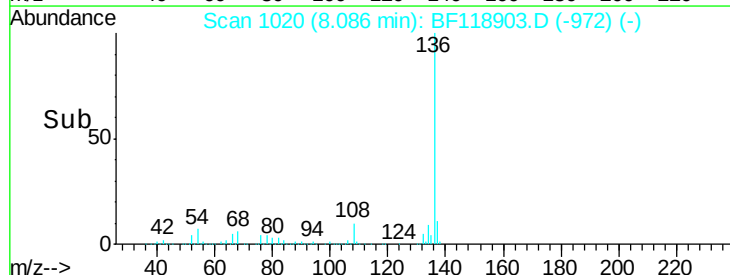
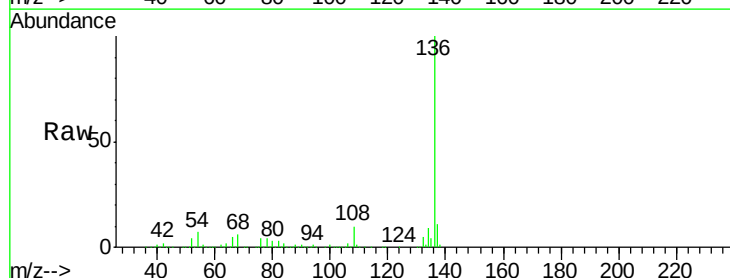
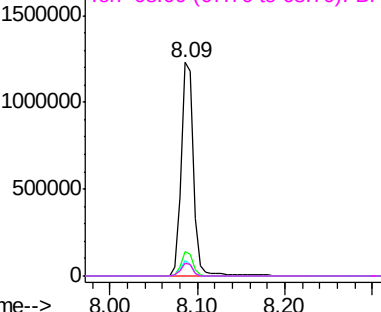
136 100

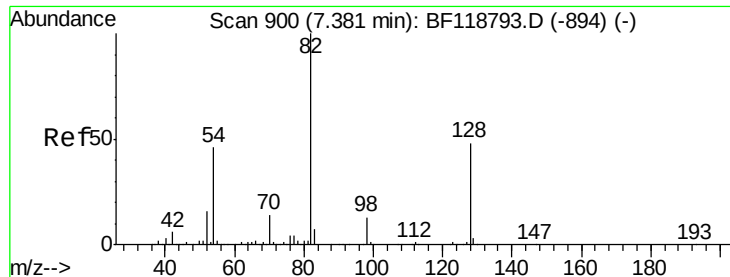
137 11.4 8.7 13.1

54 7.3 5.0 7.6

68 6.3 4.2 6.4

Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF1
Ion 68.00 (67.70 to 68.70): BF1





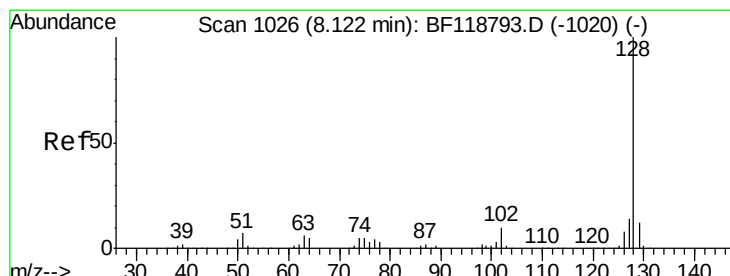
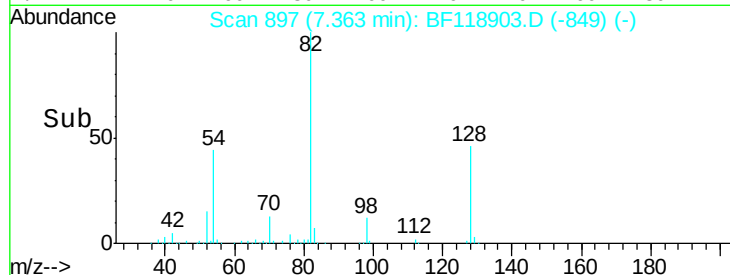
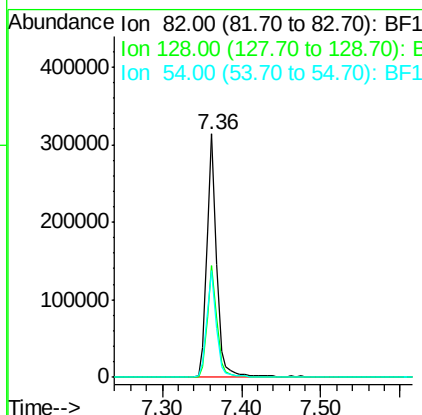
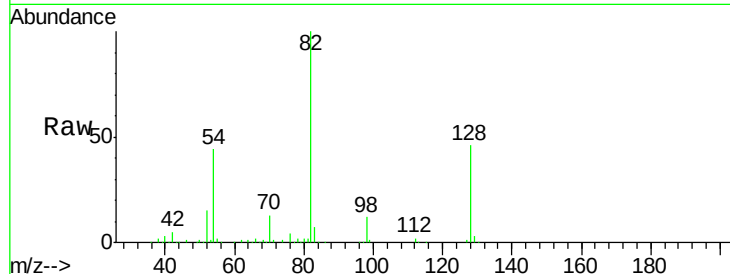
#23
Nitrobenzene-d5
Concen: 13.484 ng
RT: 7.36 min Scan# 897
Delta R.T. -0.02 min
Lab File: BF118903.D
Acq: 12 Feb 2020 00:24

Instrument :
BNA_F
ClientSampleId :
TP11-EP2-3DL

Tot Ion	Ratio	Lower	Upper
82	100		
128	46.1	38.5	57.7
54	43.7	36.7	55.1

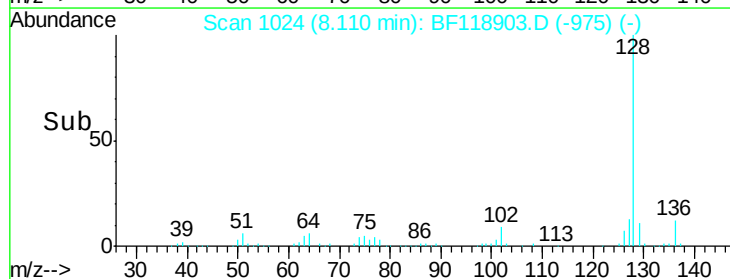
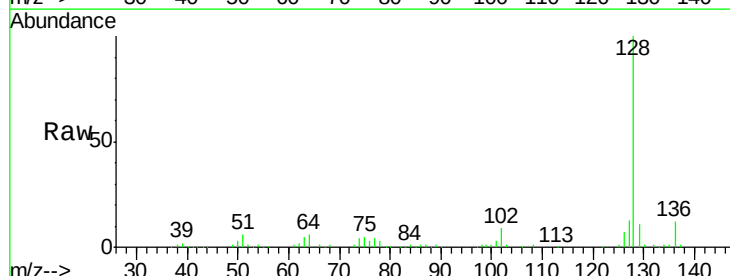
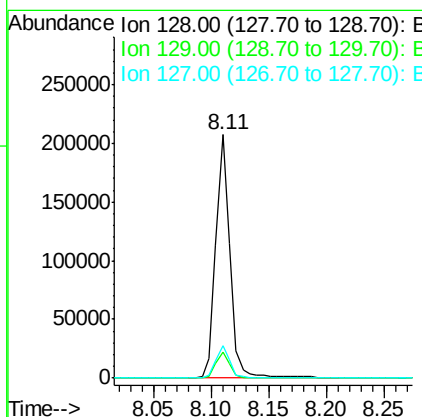
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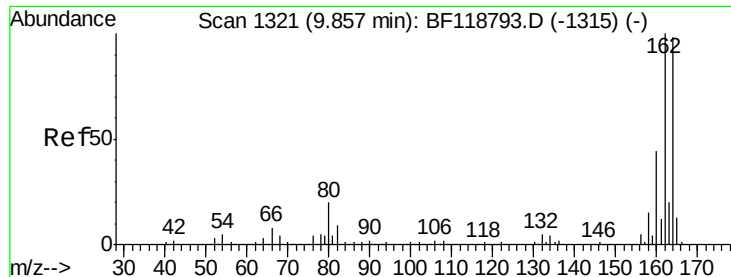
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#31
Naphthalene
Concen: 3.180 ng
RT: 8.11 min Scan# 1024
Delta R.T. -0.01 min
Lab File: BF118903.D
Acq: 12 Feb 2020 00:24

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.8	9.4	14.2
127	13.3	11.3	16.9





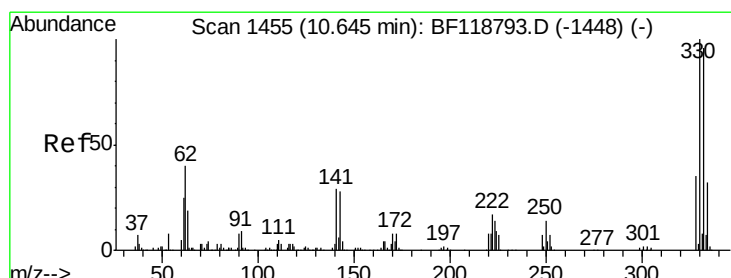
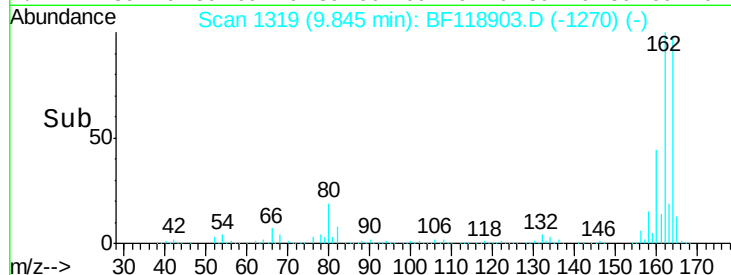
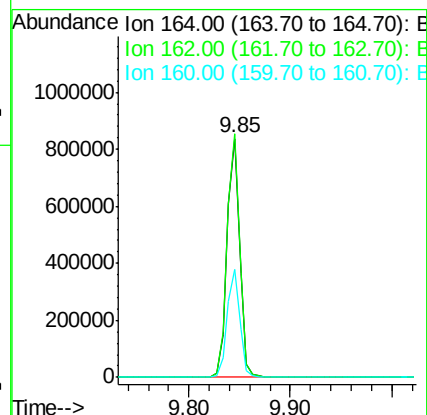
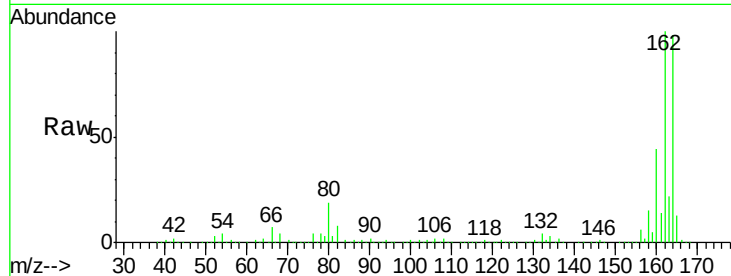
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.85 min Scan# 1319
Delta R.T. -0.01 min
Lab File: BF118903.D
Acq: 12 Feb 2020 00:24

Instrument :
BNA_F
ClientSampleId :
TP11-EP2-3DL

Tot Ion	Ratio	Lower	Upper
164	100		
162	102.1	81.4	122.2
160	45.3	35.6	53.4

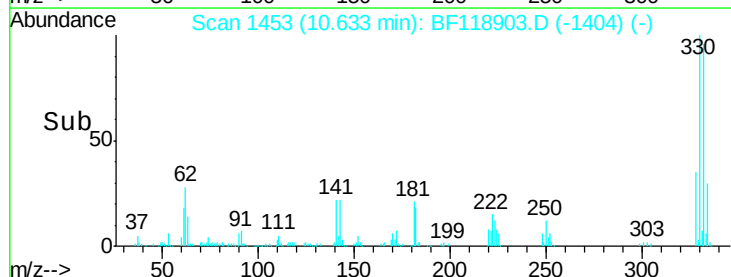
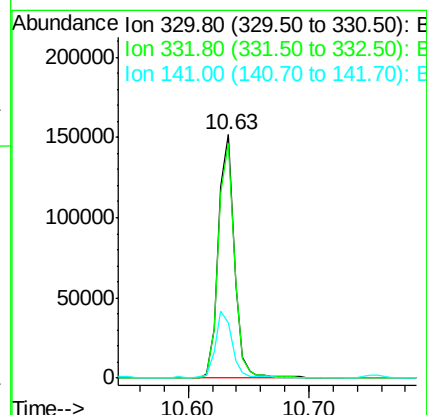
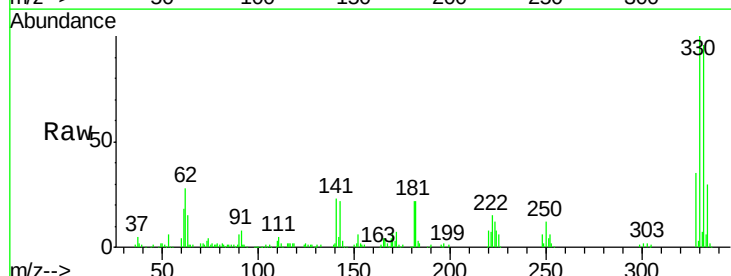
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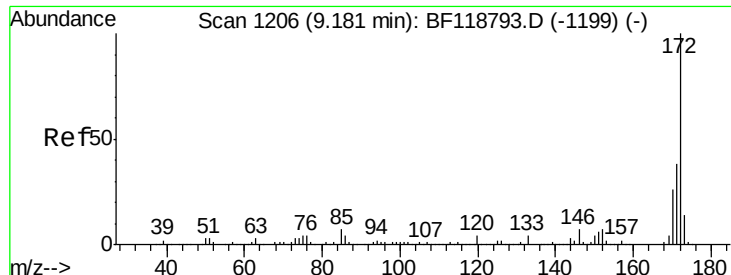
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#42
2,4,6-Tribromophenol
Concen: 15.913 ng
RT: 10.63 min Scan# 1453
Delta R.T. -0.01 min
Lab File: BF118903.D
Acq: 12 Feb 2020 00:24

Tgt Ion	Ratio	Lower	Upper
330	100		
332	97.3	77.3	115.9
141	28.4	22.4	33.6





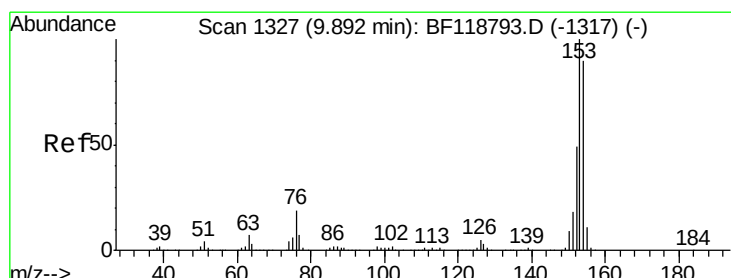
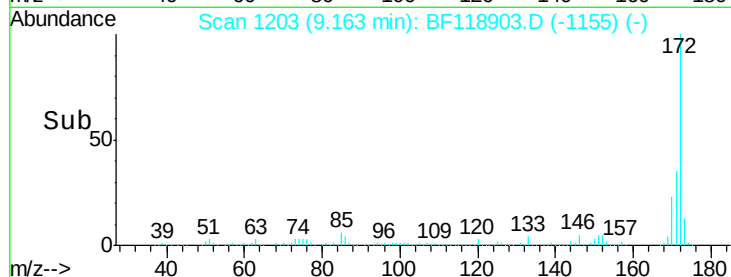
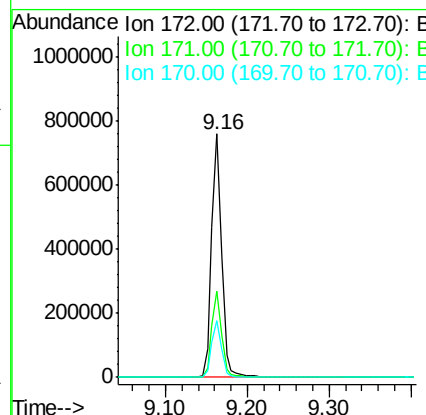
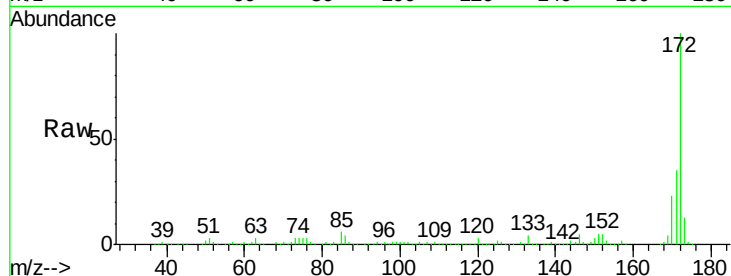
#45
2-Fluorobiphenyl
Concen: 16.072 ng
RT: 9.16 min Scan# 1203
Delta R.T. -0.02 min
Lab File: BF118903.D
Acq: 12 Feb 2020 00:24

Instrument :
BNA_F
ClientSampleId :
TP11-EP2-3DL

Tot Ion	Ratio	Lower	Upper
172	100		
171	35.4	30.8	46.2
170	23.1	20.5	30.7

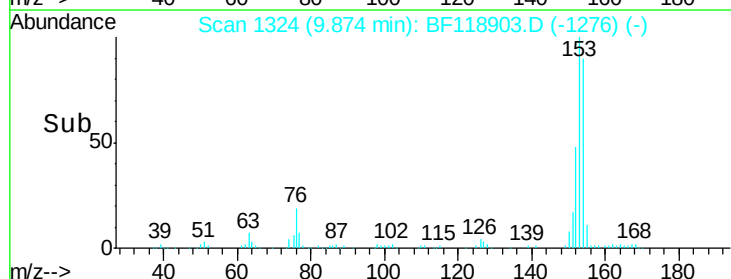
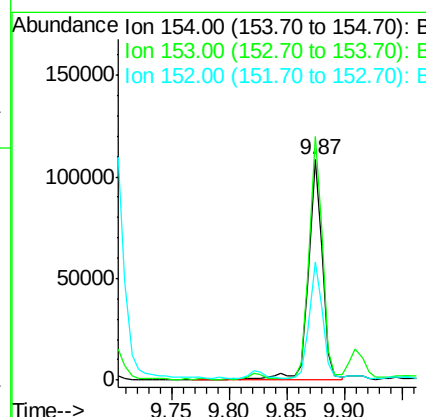
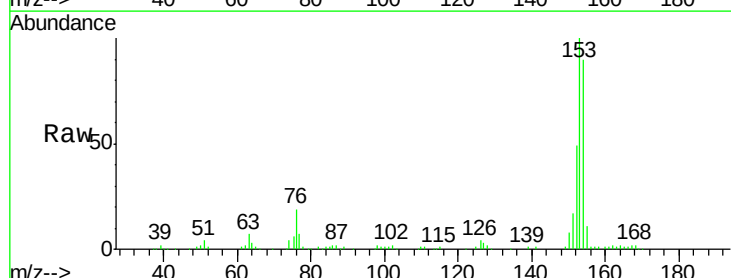
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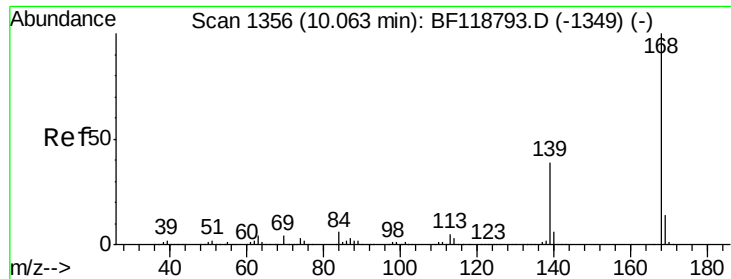
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#52
Acenaphthene
Concen: 2.326 ng
RT: 9.87 min Scan# 1324
Delta R.T. -0.02 min
Lab File: BF118903.D
Acq: 12 Feb 2020 00:24

Tgt Ion	Ratio	Lower	Upper
154	100		
153	110.7	89.4	134.0
152	53.9	43.6	65.4





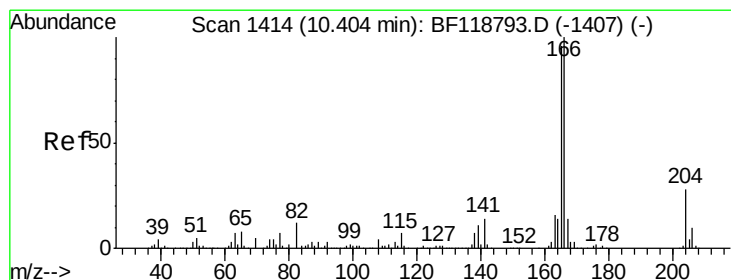
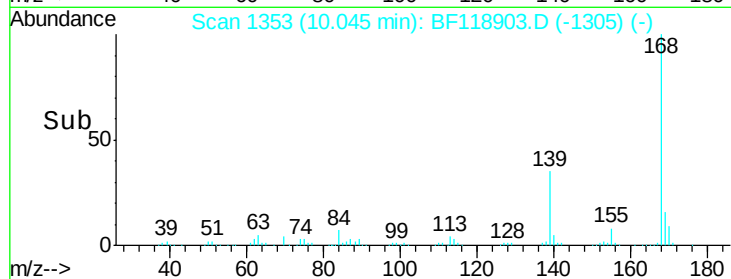
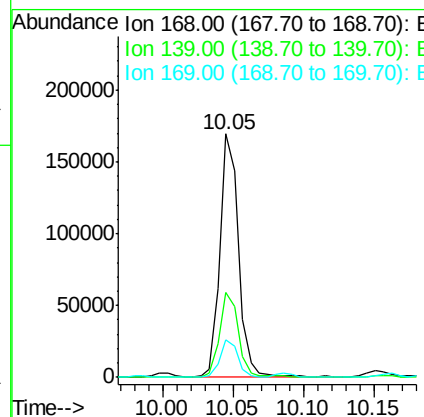
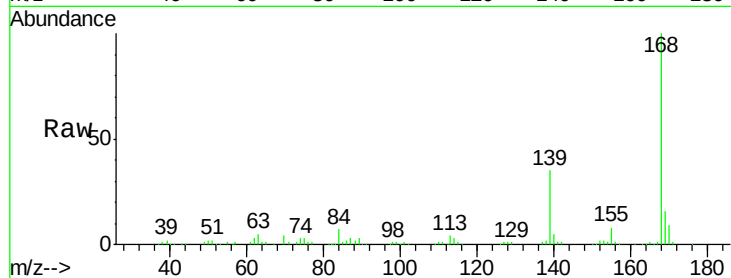
#55
Dibenzenofuran
Concen: 2.696 ng
RT: 10.05 min Scan# 1353
Delta R.T. -0.02 min
Lab File: BF118903.D
Acq: 12 Feb 2020 00:24

Instrument :
BNA_F
ClientSampleId :
TP11-EP2-3DL

Tot Ion	Ratio	Lower	Upper
168	100		
139	35.1	31.6	47.4
169	15.5	11.4	17.2

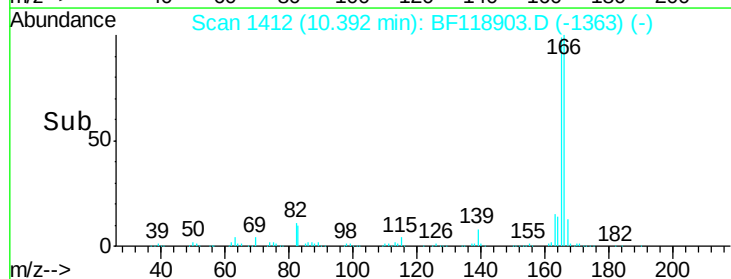
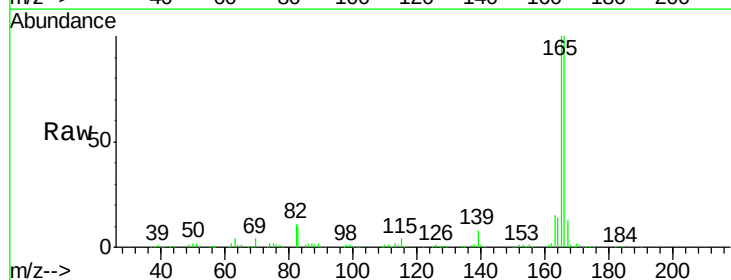
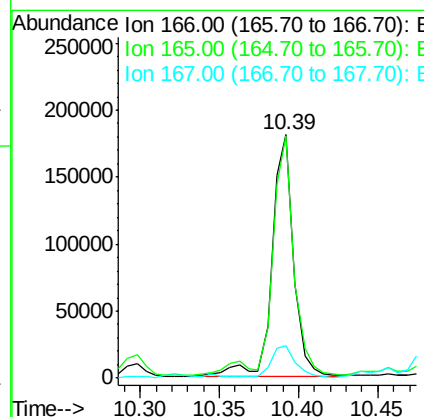
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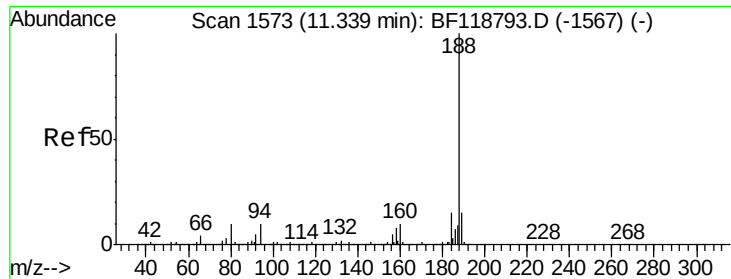
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#58
Fluorene
Concen: 4.028 ng
RT: 10.39 min Scan# 1412
Delta R.T. -0.01 min
Lab File: BF118903.D
Acq: 12 Feb 2020 00:24

Tgt Ion	Ratio	Lower	Upper
166	100		
165	99.5	77.0	115.6
167	13.3	11.1	16.7





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.33 min Scan# 1572

Delta R.T. -0.01 min

Lab File: BF118903.D

Acq: 12 Feb 2020 00:24

Instrument :

BNA_F

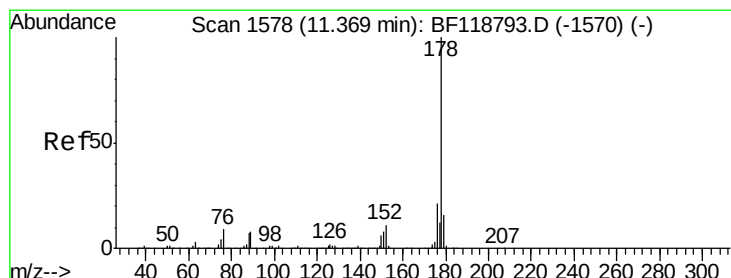
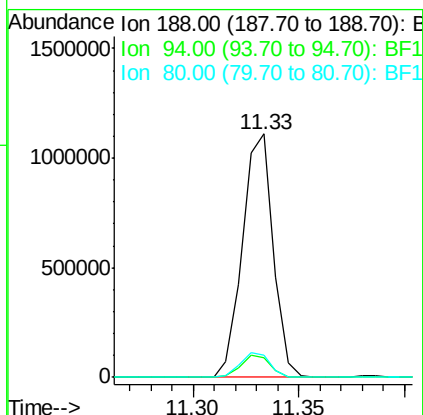
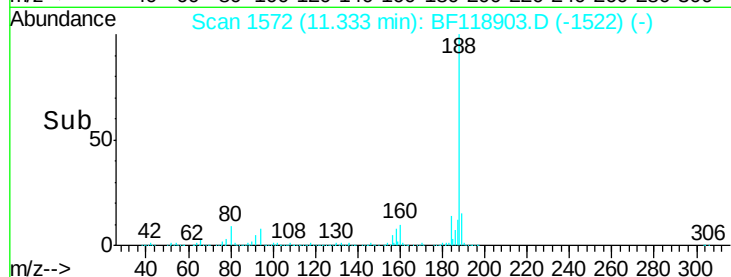
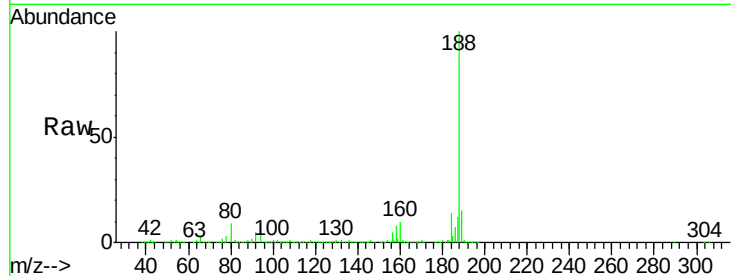
ClientSampled :

TP11-EP2-3DL

Tot Ion:188	Resp: 1118137
Ion Ratio	Lower Upper
188 100	
94 8.1	7.9 11.9
80 8.9	8.4 12.6

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#71

Phenanthrene

Concen: 32.227 ng

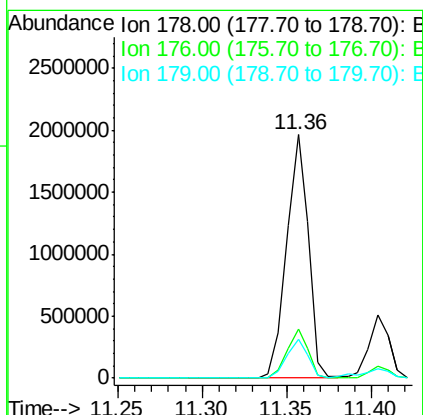
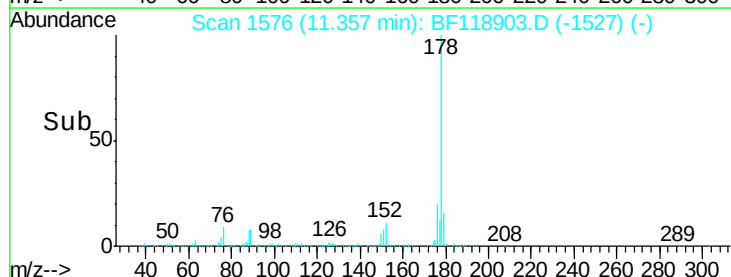
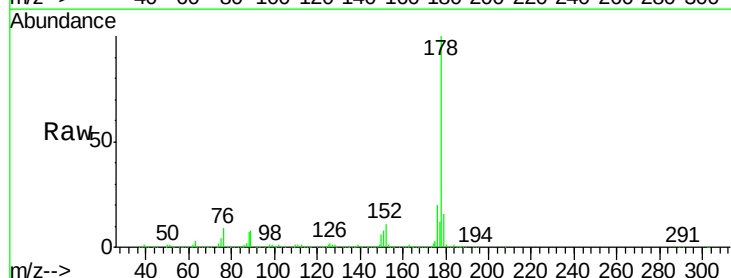
RT: 11.36 min Scan# 1576

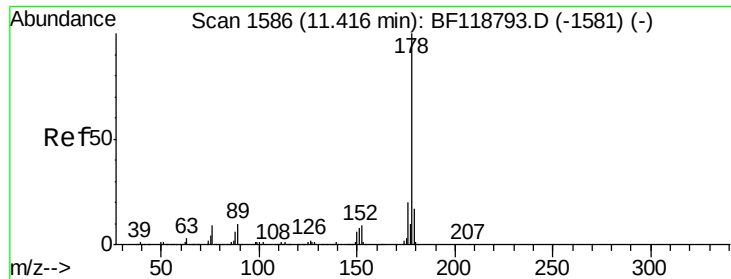
Delta R.T. -0.01 min

Lab File: BF118903.D

Acq: 12 Feb 2020 00:24

Tgt	Ion:178	Resp:	1772954
Ion	Ratio	Lower	Upper
178	100		
176	20.1	16.6	24.8
179	16.0	13.2	19.8





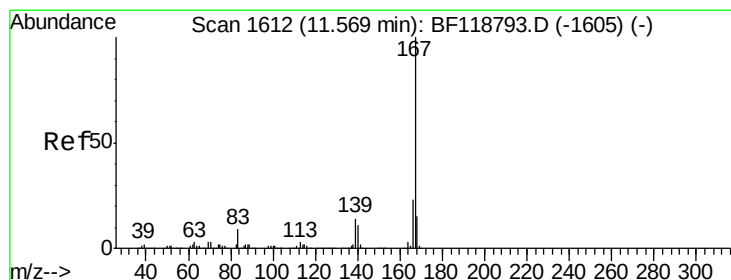
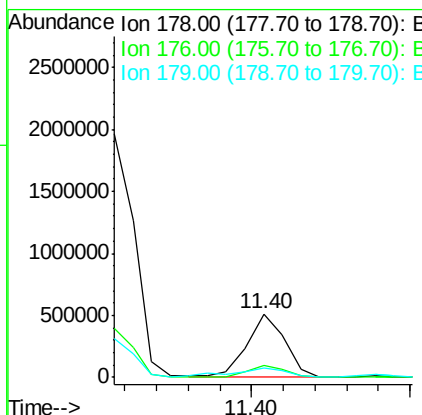
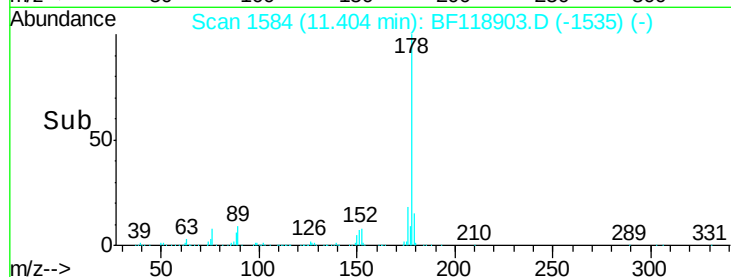
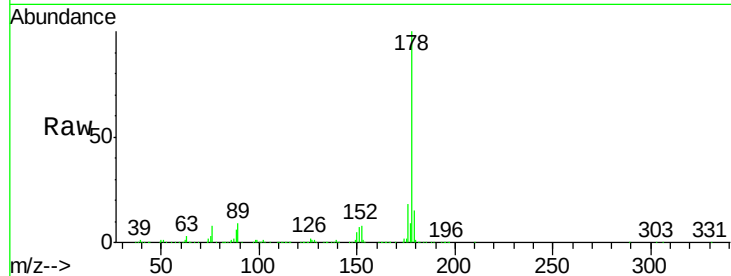
#72
 Anthracene
 Concen: 7.639 ng
 RT: 11.40 min Scan# 1584
 Delta R.T. -0.01 min
 Lab File: BF118903.D
 Acq: 12 Feb 2020 00:24

Instrument :
 BNA_F
 ClientSampleId :
 TP11-EP2-3DL

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.1	16.2	24.2
179	15.0	13.4	20.2

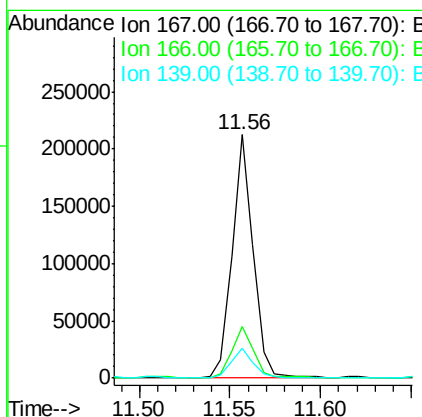
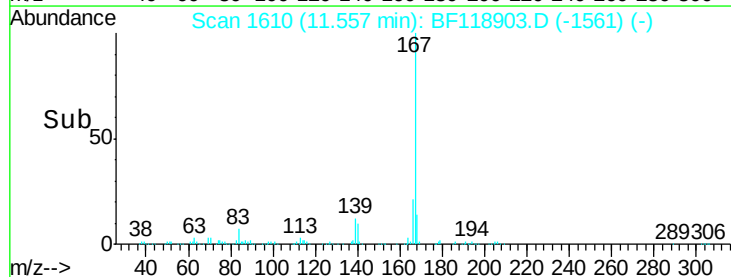
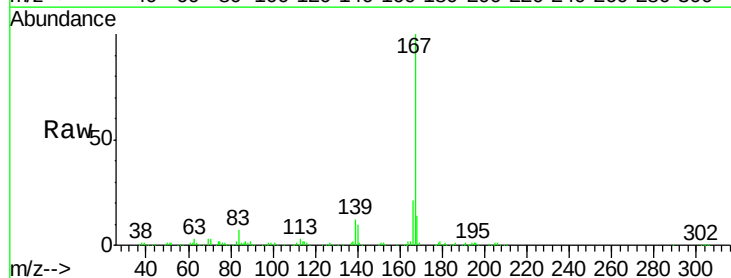
Manual Integrations
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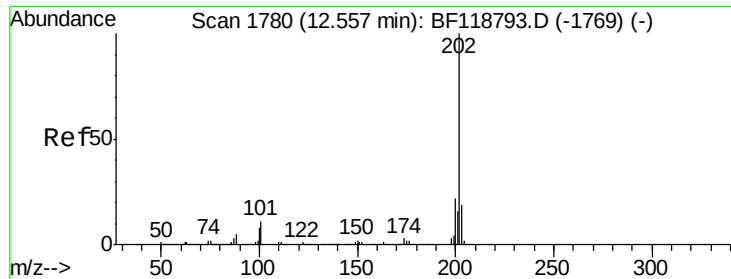
mohammad
 2/12/2020 3:51:25 PM



#73
 Carbazole
 Concen: 3.597 ng
 RT: 11.56 min Scan# 1610
 Delta R.T. -0.01 min
 Lab File: BF118903.D
 Acq: 12 Feb 2020 00:24

Tgt Ion	Ratio	Lower	Upper
167	100		
166	21.0	18.4	27.6
139	12.3	11.1	16.7





#75

Fluoranthene

Concen: 25.066 ng

RT: 12.54 min Scan# 1778

Delta R.T. -0.01 min

Lab File: BF118903.D

Acq: 12 Feb 2020 00:24

Instrument :

BNA_F

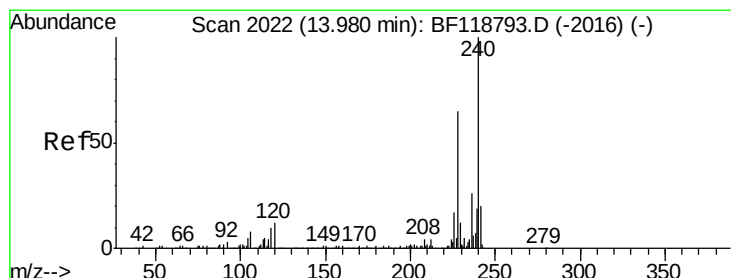
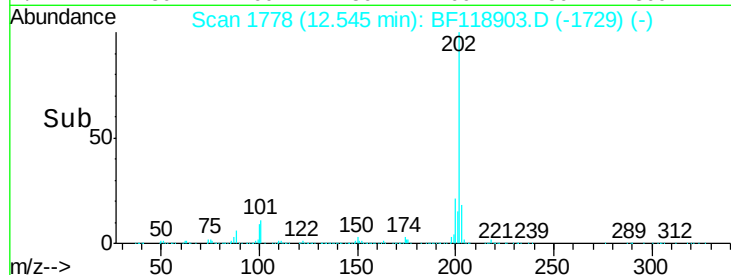
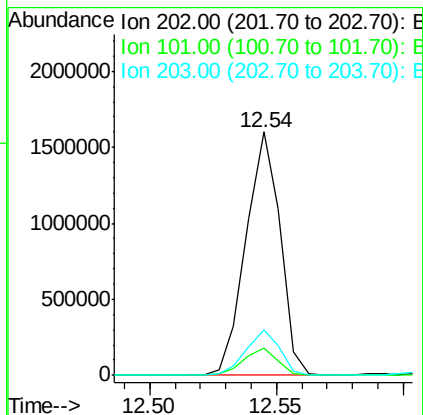
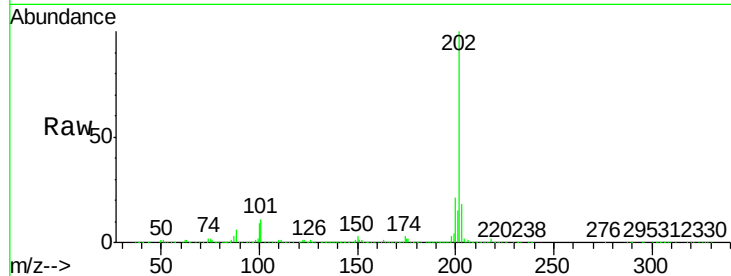
ClientSampleId :

TP11-EP2-3DL

Tot Ion:	202	Resp:	1505620
Ion	Ratio	Lower	Upper
202	100		
101	11.4	0.0	31.0
203	18.5	0.0	38.7

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#76

Chrysene-d12

Concen: 20.000 ng

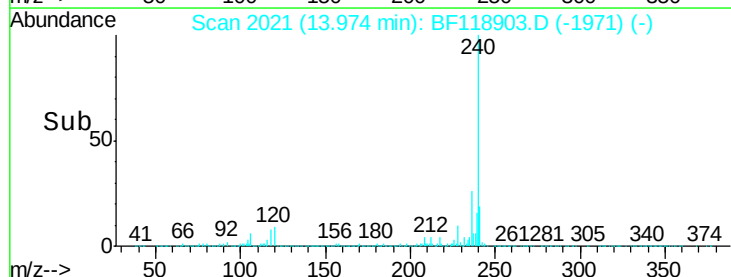
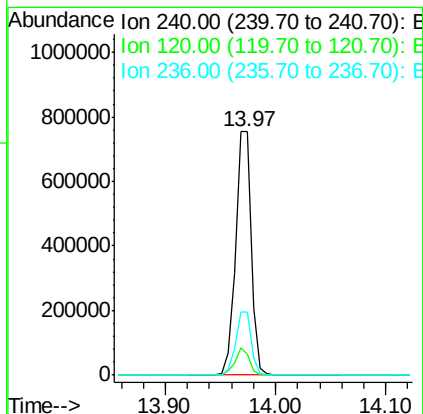
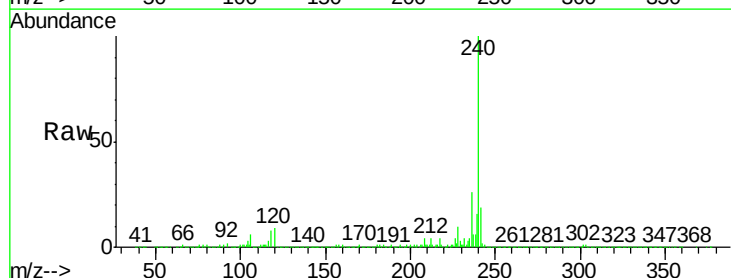
RT: 13.97 min Scan# 2021

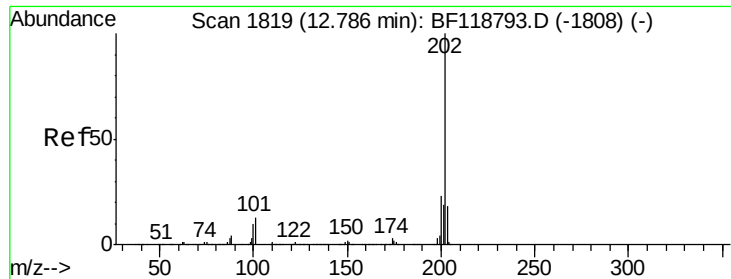
Delta R.T. -0.01 min

Lab File: BF118903.D

Acq: 12 Feb 2020 00:24

Tgt Ion:	240	Resp:	756232
Ion	Ratio	Lower	Upper
240	100		
120	8.6	9.4	14.0#
236	26.0	21.0	31.6





#78

Pvrene

Concen: 24.826 ng

RT: 12.77 min Scan# 1817

Delta R.T. -0.01 min

Lab File: BF118903.D

Acq: 12 Feb 2020 00:24

Instrument :

BNA_F

ClientSampleId :

TP11-EP2-3DL

Tot Ion:202 Resp: 1287937

Ion Ratio Lower Upper

202 100

200 21.4 18.2 27.2

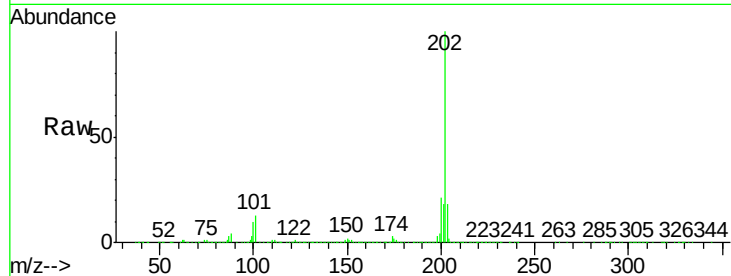
203 18.2 14.8 22.2

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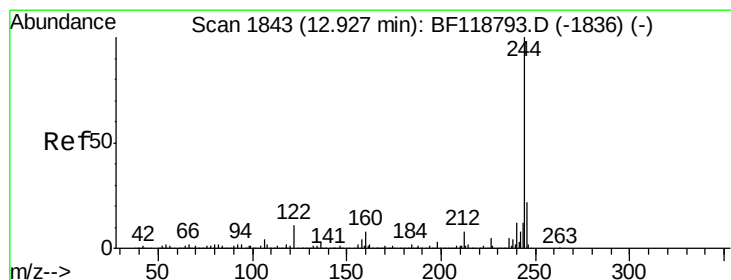
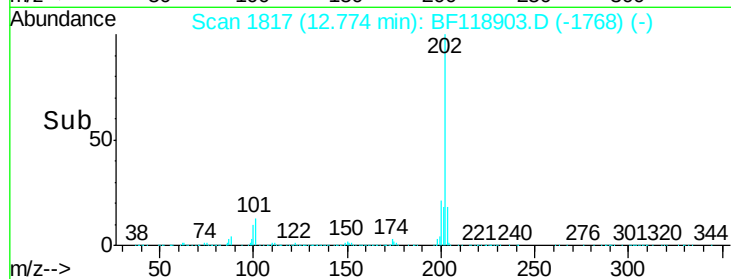
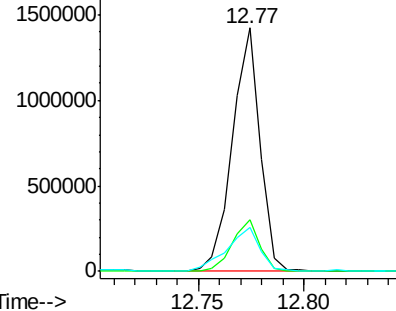
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Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#79

Terphenyl-d14

Concen: 18.573 ng

RT: 12.91 min Scan# 1840

Delta R.T. -0.02 min

Lab File: BF118903.D

Acq: 12 Feb 2020 00:24

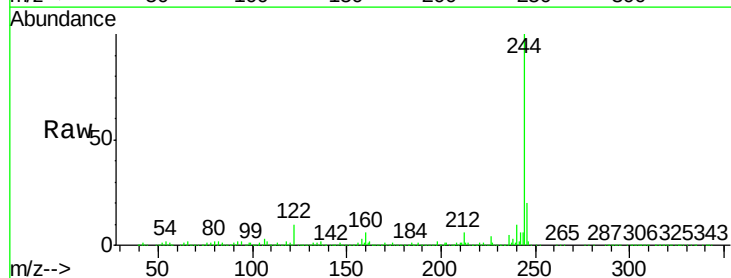
Tgt Ion:244 Resp: 683799

Ion Ratio Lower Upper

244 100

212 6.3 6.5 9.7#

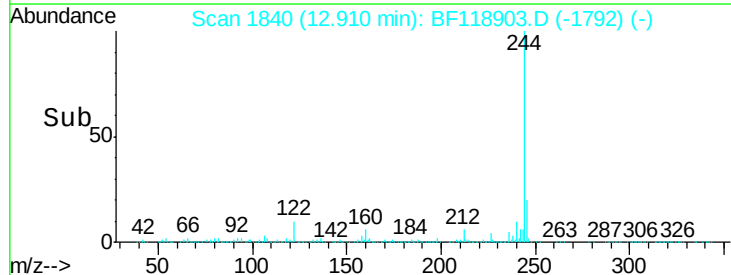
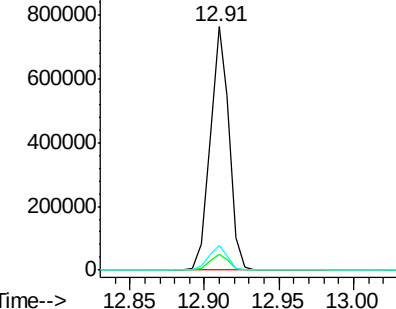
122 10.1 8.9 13.3

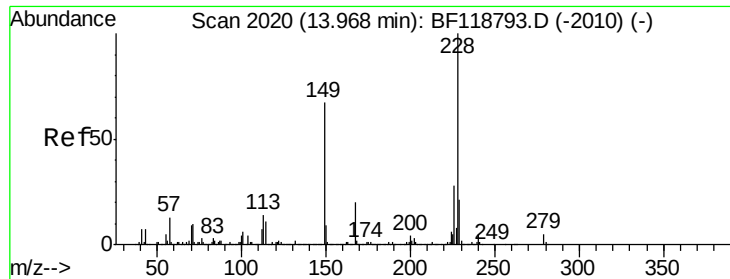


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





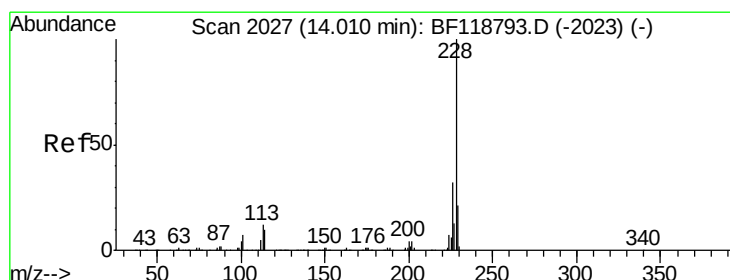
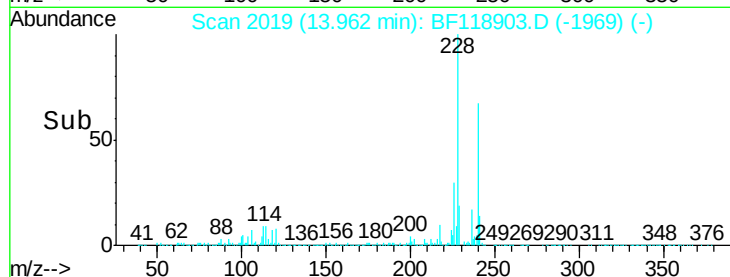
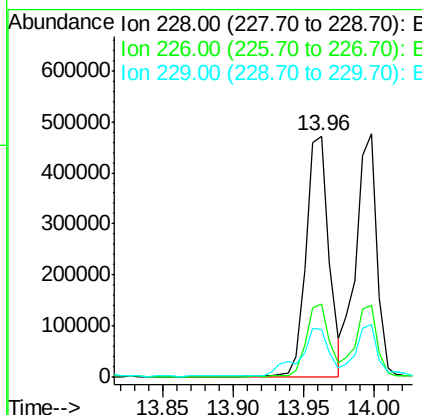
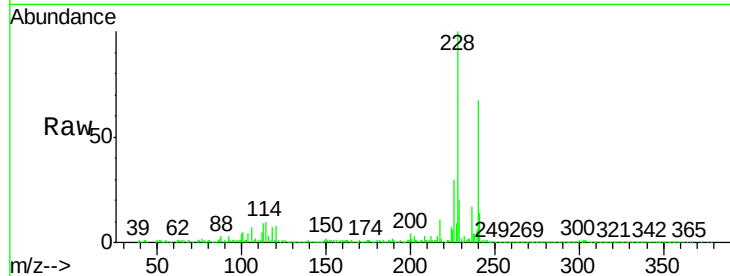
#81
Benzo(a)anthracene
Concen: 11.779 ng
RT: 13.96 min Scan# 2019
Delta R.T. -0.01 min
Lab File: BF118903.D
Acq: 12 Feb 2020 00:24

Instrument :
BNA_F
ClientSampleId :
TP11-EP2-3DL

Tot Ion	Ratio	Lower	Upper
228	100		
226	30.2	22.7	34.1
229	19.8	16.6	25.0

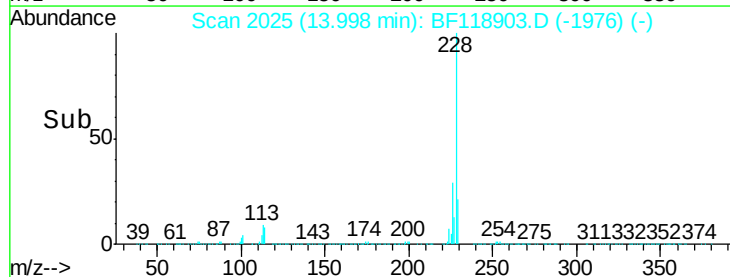
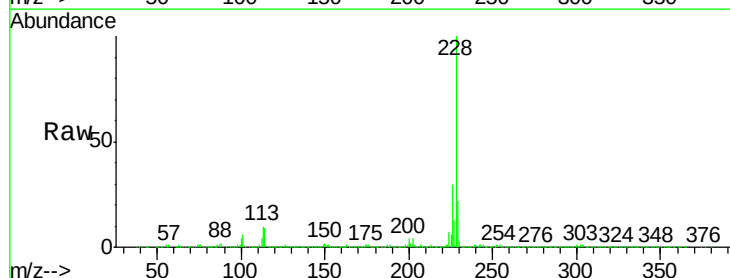
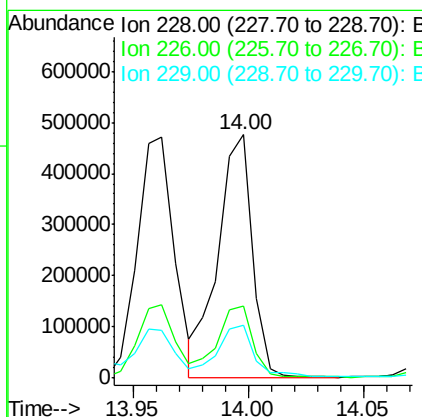
Manual Integrations
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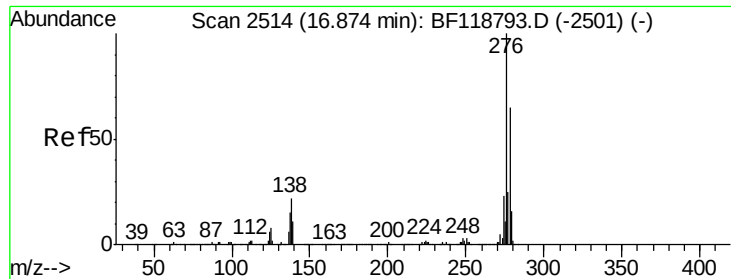
mohammad
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#83
Chrysene
Concen: 10.881 ng
RT: 14.00 min Scan# 2025
Delta R.T. -0.01 min
Lab File: BF118903.D
Acq: 12 Feb 2020 00:24

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.7	25.4	38.0
229	21.9	16.9	25.3





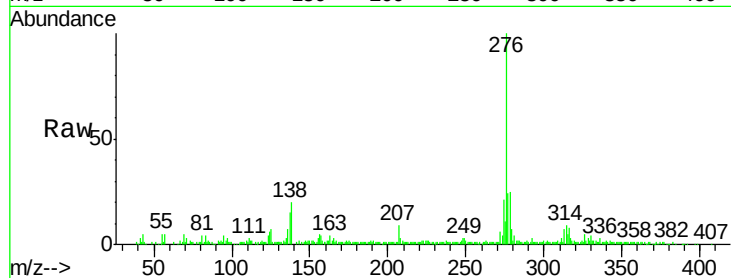
#86
 Indeno(1,2,3-cd)pyrene
 Concen: 3.708 ng
 RT: 16.86 min Scan# 2511
 Delta R.T. -0.02 min
 Lab File: BF118903.D
 Acq: 12 Feb 2020 00:24

Instrument :
 BNA_F
 ClientSampleId :
 TP11-EP2-3DL

Tot Ion	Ratio	Lower	Upper
276	100		
138	17.9	18.3	27.5#
277	23.9	20.2	30.4

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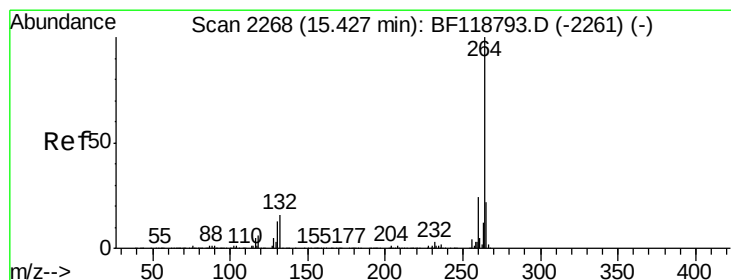
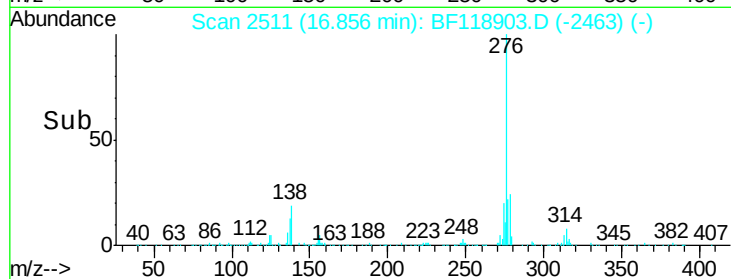
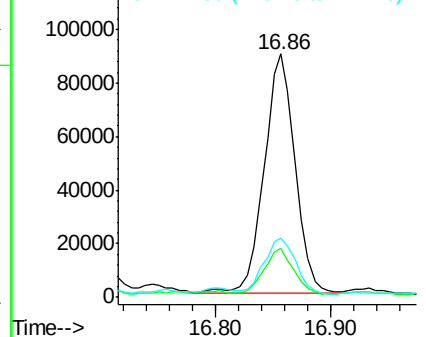


Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.42 min Scan# 2267
 Delta R.T. -0.01 min
 Lab File: BF118903.D
 Acq: 12 Feb 2020 00:24

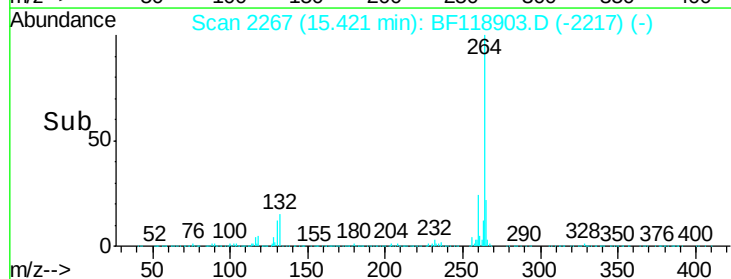
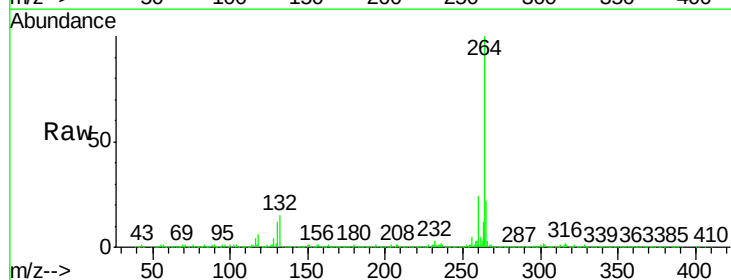
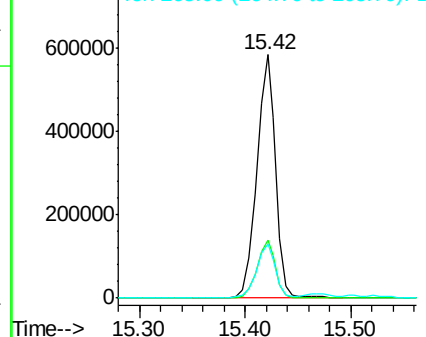
Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.0	19.1	28.7
265	22.2	17.2	25.8

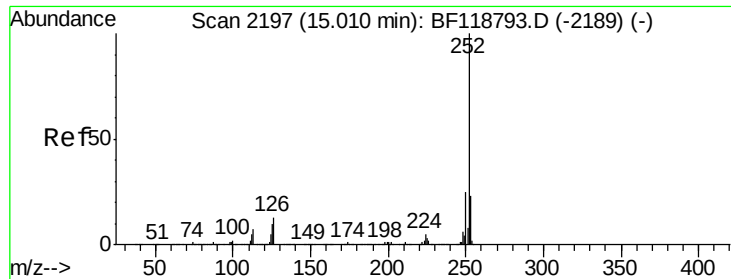
Abundance

Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





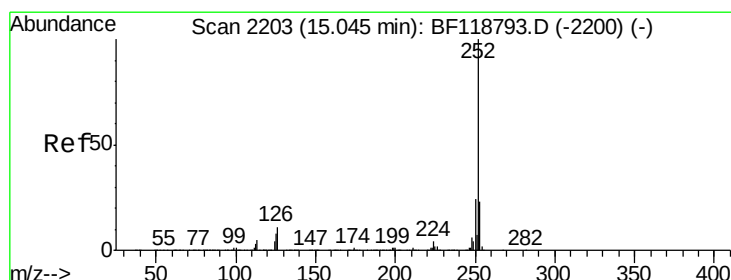
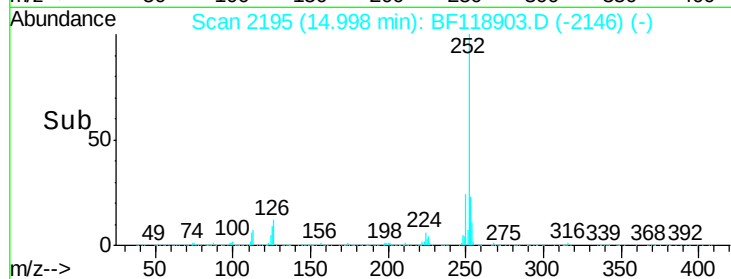
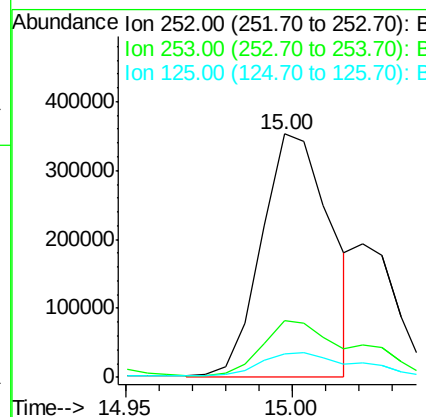
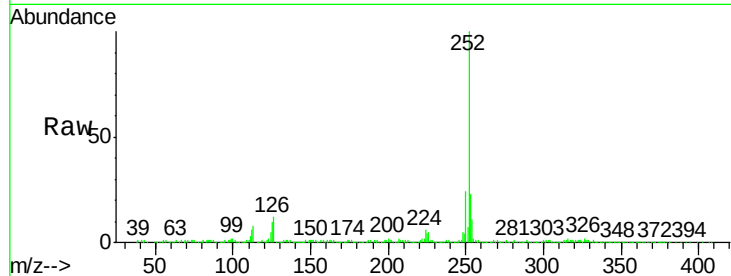
#88
Benzo(b)fluoranthene
Concen: 11.356 ng m
RT: 15.00 min Scan# 2195
Delta R.T. -0.01 min
Lab File: BF118903.D
Acq: 12 Feb 2020 00:24

Instrument :
BNA_F
ClientSampleId :
TP11-EP2-3DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.1	18.4	27.6
125	9.8	8.1	12.1

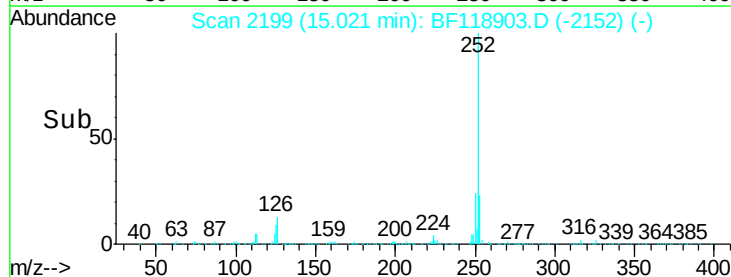
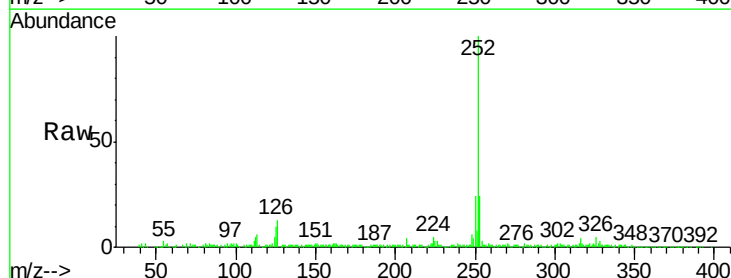
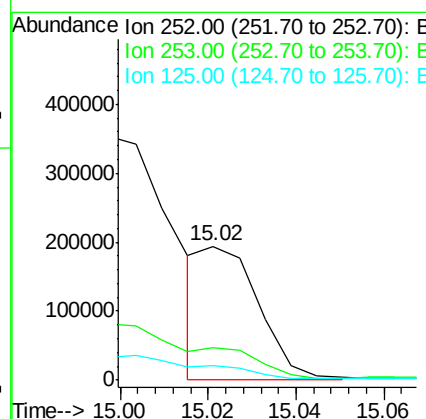
Manual Integrations
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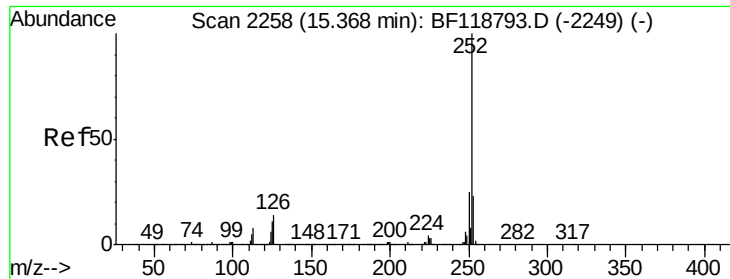
mohammad
2/12/2020 3:51:25 PM



#89
Benzo(k)fluoranthene
Concen: 4.429 ng m
RT: 15.02 min Scan# 2199
Delta R.T. -0.02 min
Lab File: BF118903.D
Acq: 12 Feb 2020 00:24

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.7	18.2	27.4
125	10.5	7.0	10.6





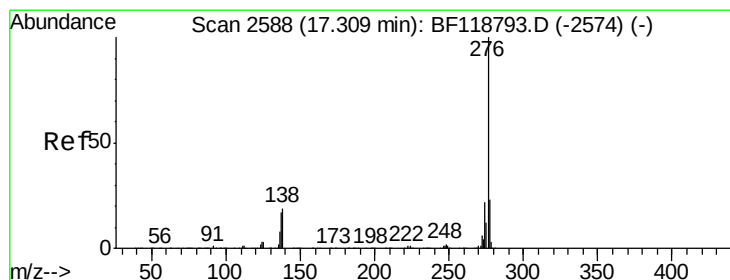
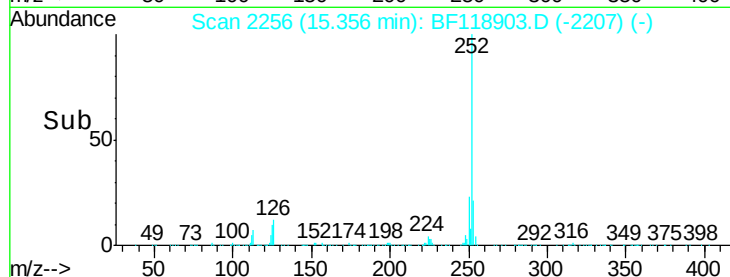
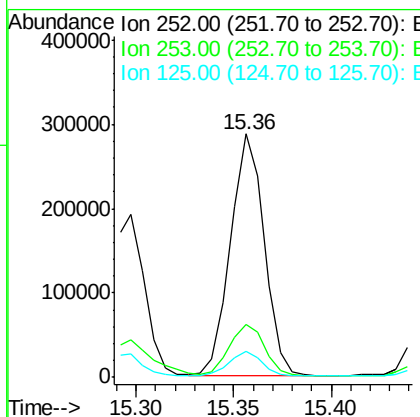
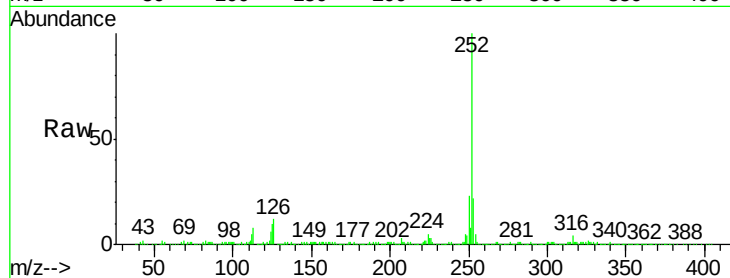
#90
Benzo(a)pyrene
Concen: 8.943 ng
RT: 15.36 min Scan# 2256
Delta R.T. -0.01 min
Lab File: BF118903.D
Acq: 12 Feb 2020 00:24

Instrument :
BNA_F
ClientSampleId :
TP11-EP2-3DL

Tot Ion:	252	Resp:	343124
Ion Ratio	Lower	Upper	
252	100		
253	21.9	18.1	27.1
125	10.5	8.7	13.1

Manual Integrations
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#92
Benzo(g,h,i)perylene
Concen: 4.416 ng
RT: 17.29 min Scan# 2584
Delta R.T. -0.02 min
Lab File: BF118903.D
Acq: 12 Feb 2020 00:24

Tgt Ion:	276	Resp:	144671
Ion Ratio	Lower	Upper	
276	100		
277	23.5	18.7	28.1
138	19.5	15.4	23.2

