

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF030220\
 Data File : BF119185.D
 Acq On : 2 Mar 2020 23:18
 Operator : CG/JU
 Sample : L1743-08
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 C-3

Manual Integrations
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Quant Time: Mar 03 08:38:31 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022020.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 26 16:03:05 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.74	152	103816	20.00	ng	0.00
21) Naphthalene-d8	8.02	136	365974	20.00	ng	-0.01
39) Acenaphthene-d10	9.77	164	186987	20.00	ng	-0.02
64) Phenanthrene-d10	11.26	188	357375	20.00	ng	0.00
76) Chrysene-d12	13.91	240	250346	20.00	ng	0.00
87) Perylene-d12	15.33	264	177785	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.38	112	581839	93.66	ng	0.01
7) Phenol-d6	6.40	99	672613	89.03	ng	0.00
23) Nitrobenzene-d5	7.30	82	408607	58.95	ng	-0.02
42) 2,4,6-Tribromophenol	10.56	330	209167	85.51	ng	-0.01
45) 2-Fluorobiphenyl	9.09	172	789427	62.19	ng	-0.02
79) Terphenyl-d14	12.84	244	996618	68.54	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.04	128	42468	2.238	ng	97
38) 1-Methylnaphthalene	8.83	142	28528	2.375	ng	99
49) Acenaphthylene	9.63	152	128545	7.308	ng	99
50) Dimethylphthalate	9.49	163	89801	6.280	ng	98
52) Acenaphthene	9.80	154	77672	7.323	ng	98
55) Dibenzofuran	9.97	168	80942	5.113	ng	# 94
58) Fluorene	10.32	166	126428	10.278	ng	98
71) Phenanthrene	11.29	178	1977961	101.489	ng	100
72) Anthracene	11.33	178	506516	26.011	ng	98
73) Carbazole	11.49	167	169136	9.749	ng	97
75) Fluoranthene	12.49	202	3027301	146.335	ng	98
78) Pylene	12.72	202	2720132	135.313	ng	98
80) Butylbenzylphthalate	13.31	149	86030	10.168	ng	93
81) Benzo(a)anthracene	13.90	228	1370980	80.373	ng	99
83) Chrysene	13.93	228	1243085	73.137	ng	97
84) Bis(2-ethylhexyl)phthalate	13.89	149	2499138	233.811	ng	# 97
86) Indeno(1,2,3-cd)pyrene	16.75	276	519675	31.577	ng	95
88) Benzo(b)fluoranthene	14.93	252	1326737m	113.216	ng	
89) Benzo(k)fluoranthene	14.96	252	280346m	25.815	ng	
90) Benzo(a)pyrene	15.28	252	791204	74.809	ng	98
91) Dibenzo(a,h)anthracene	16.74	278	146861m	15.781	ng	
92) Benzo(g,h,i)perylene	17.18	276	511381	55.617	ng	98

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

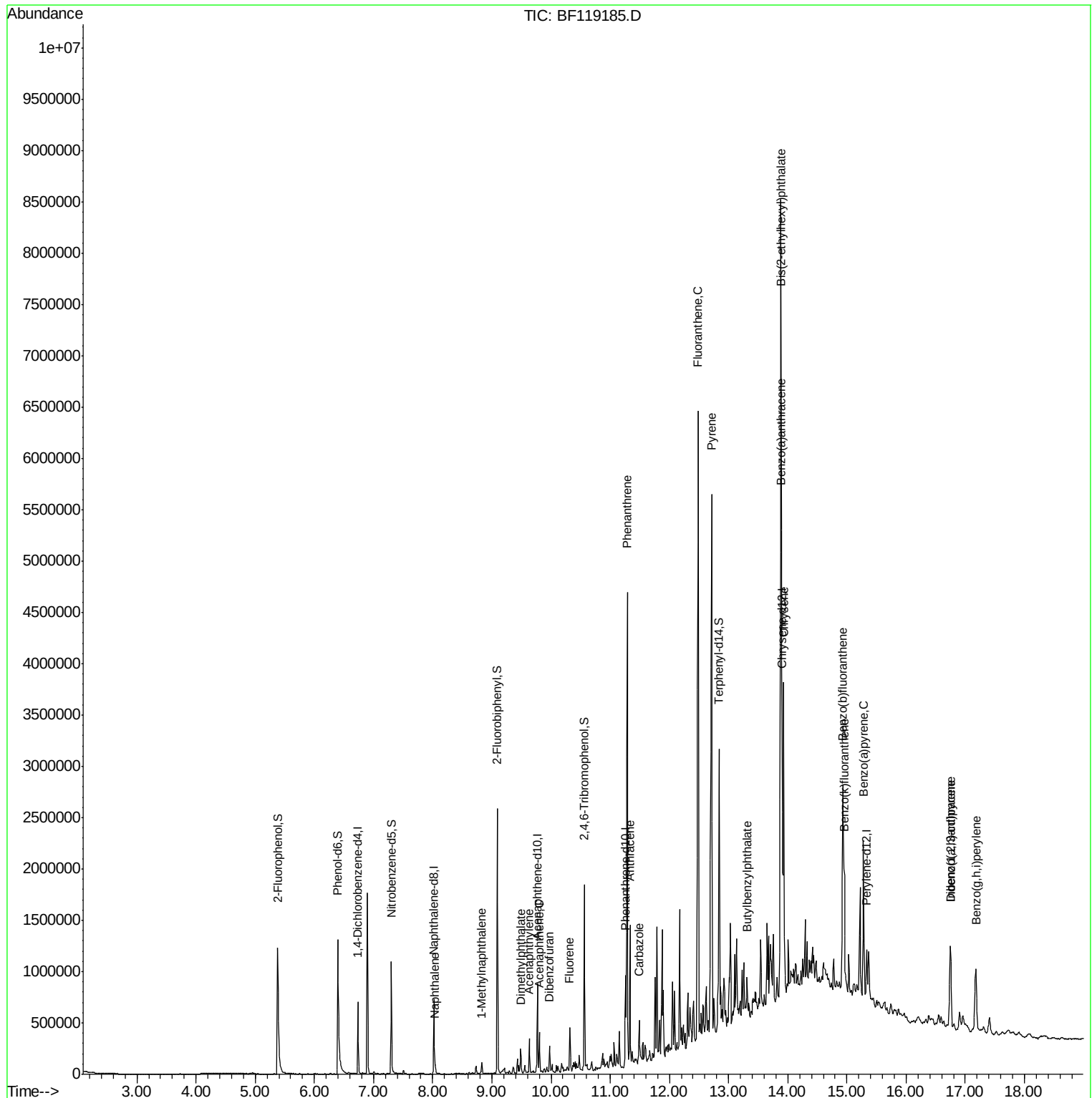
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF030220\
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ALS Vial : 18 Sample Multiplier: 1

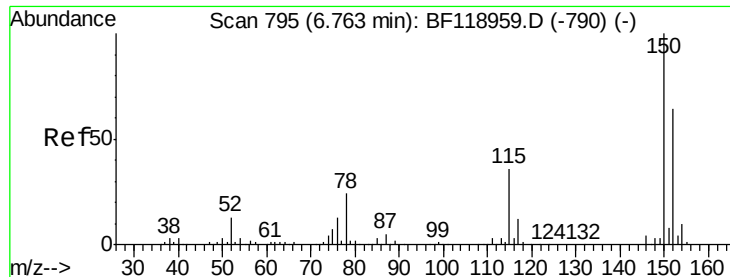
Instrument :
BNA_F
ClientSampleId :
C-3

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Quant Time: Mar 03 08:38:31 2020
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Feb 26 16:03:05 2020
Response via : Initial Calibration





#1

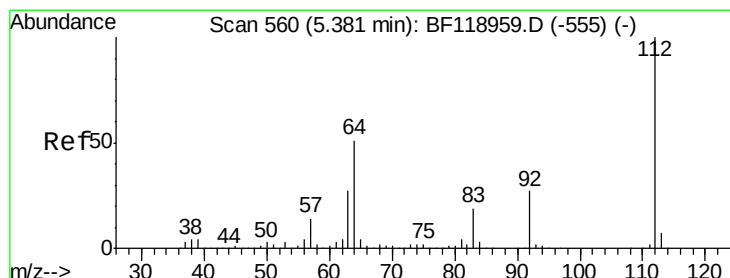
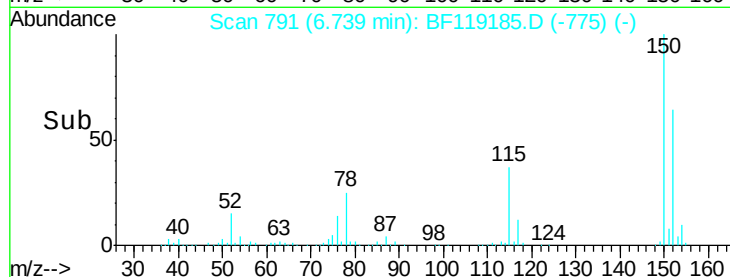
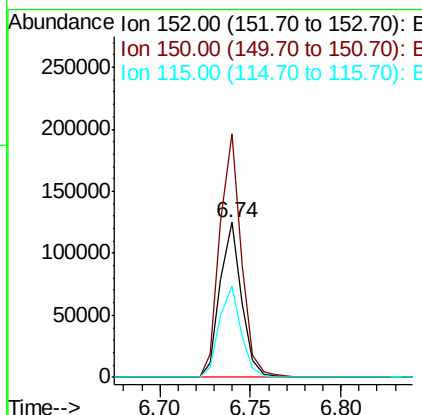
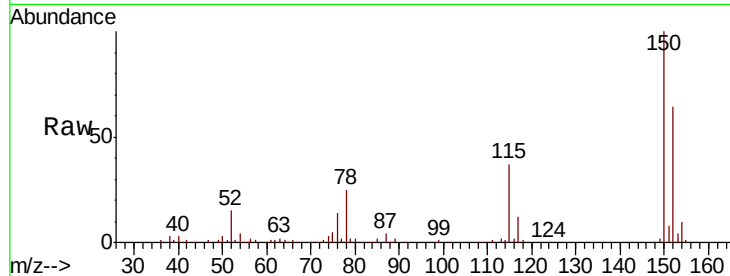
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.74 min Scan# 791
Delta R.T. -0.01 min
Lab File: BF119185.D
Acq: 2 Mar 2020 23:18

Instrument :
BNA_F
ClientSampled :
C-3

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.0	123.0	184.6
115	58.8	49.5	74.3

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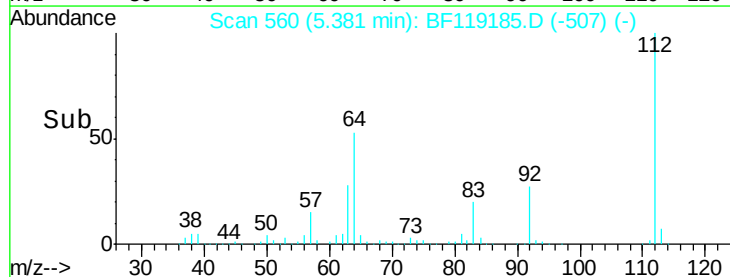
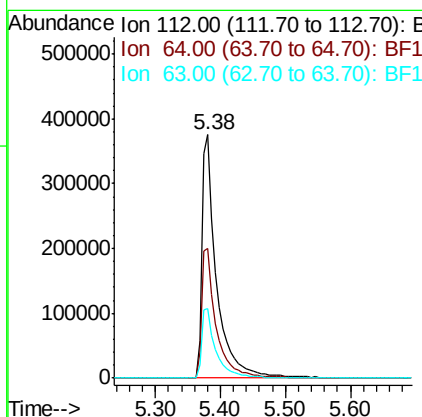
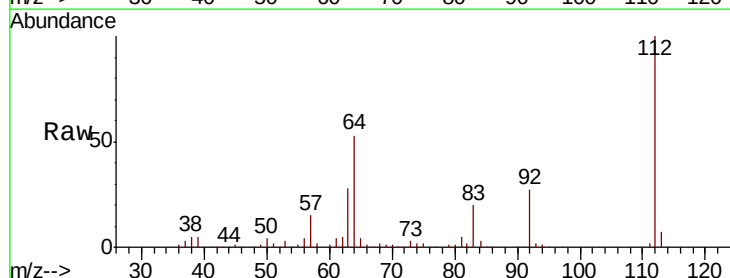
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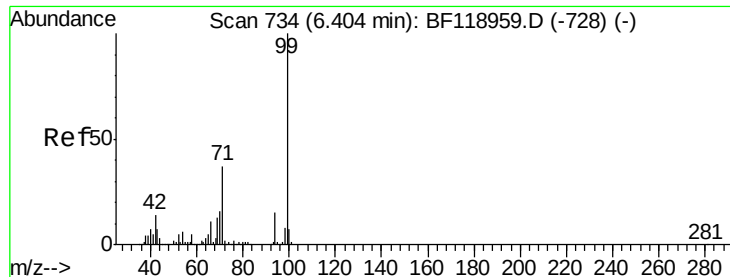


#5

2-Fluorophenol
Concen: 93.662 ng
RT: 5.38 min Scan# 560
Delta R.T. 0.01 min
Lab File: BF119185.D
Acq: 2 Mar 2020 23:18

Tgt Ion	Ratio	Lower	Upper
112	100		
64	53.0	45.0	67.4
63	28.5	24.2	36.4





#7

Phenol-d6

Concen: 89.028 ng

RT: 6.40 min Scan# 733

Delta R.T. -0.01 min

Lab File: BF119185.D

Acq: 2 Mar 2020 23:18

Instrument :

BNA_F

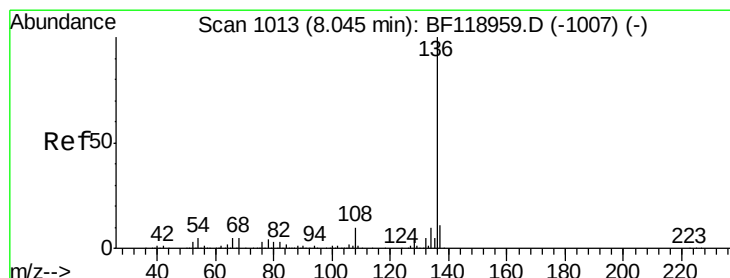
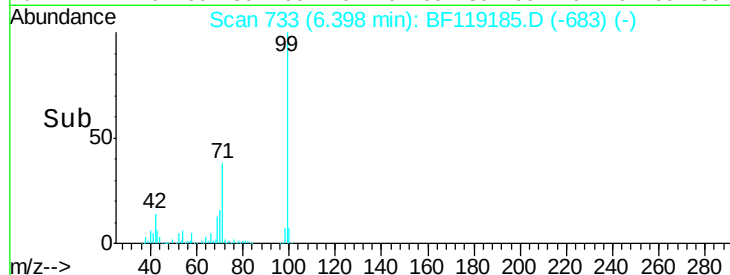
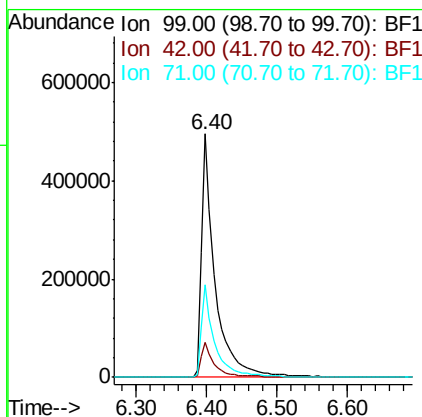
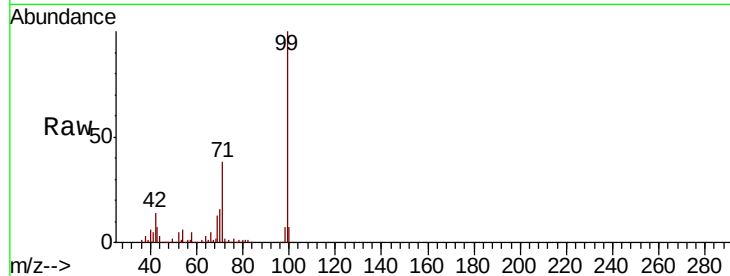
ClientSampleId :

C-3

Tot Ion:	99	Resp:	672613
Ion	Ratio	Lower	Upper
99	100		
42	14.5	12.6	18.8
71	38.3	31.0	46.4

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#21

Naphthalene-d8

Concen: 20.000 ng

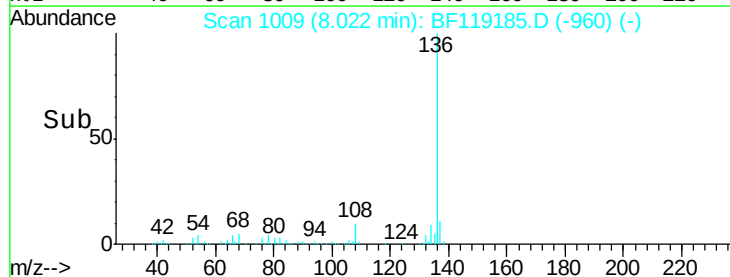
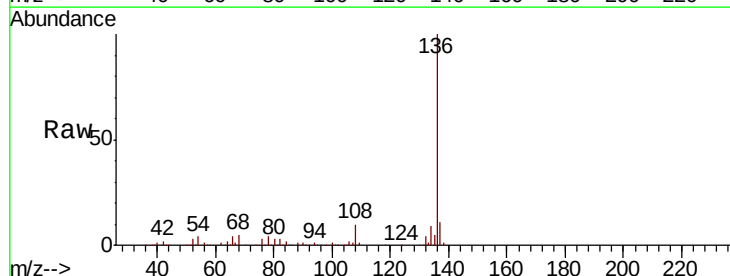
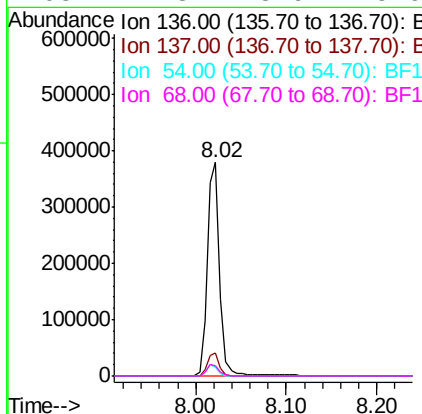
RT: 8.02 min Scan# 1009

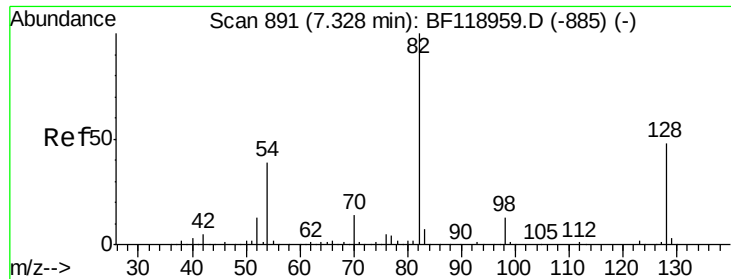
Delta R.T. -0.01 min

Lab File: BF119185.D

Acq: 2 Mar 2020 23:18

Tgt Ion:	136	Resp:	365974
Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.8	13.2
54	4.5	3.8	5.6
68	4.8	3.9	5.9





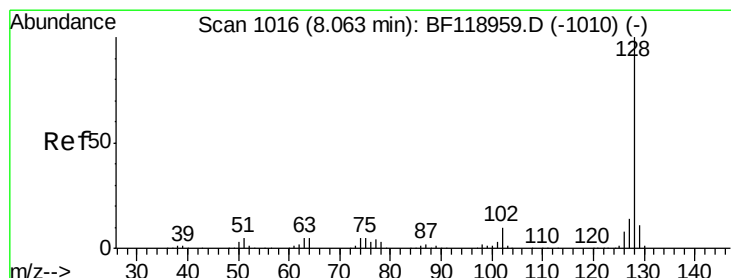
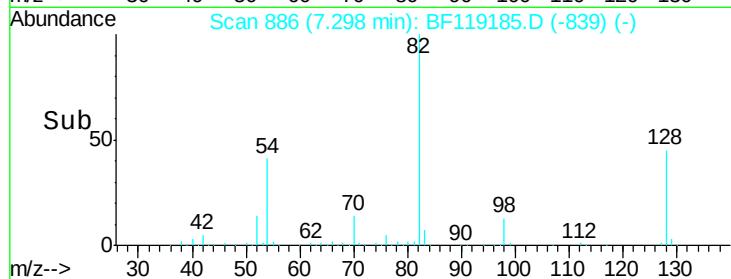
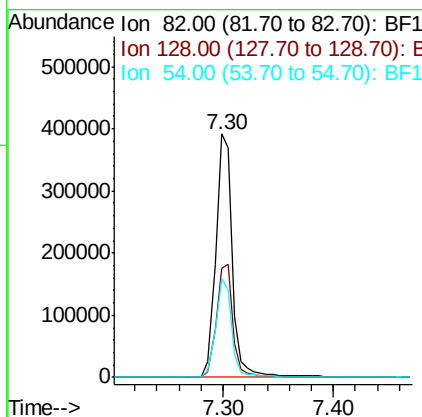
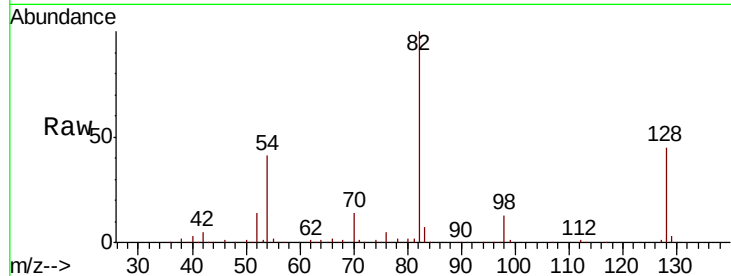
#23
Nitrobenzene-d5
Concen: 58.951 ng
RT: 7.30 min Scan# 886
Delta R.T. -0.02 min
Lab File: BF119185.D
Acq: 2 Mar 2020 23:18

Instrument :
BNA_F
ClientSampled :
C-3

Tot Ion	Ratio	Resp	Lower	Upper
82	100			
128	45.1	37.9	56.9	
54	40.9	33.4	50.2	

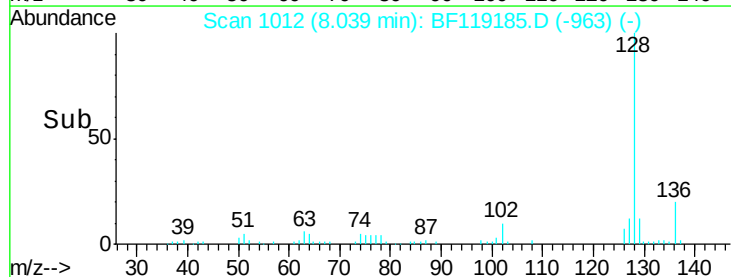
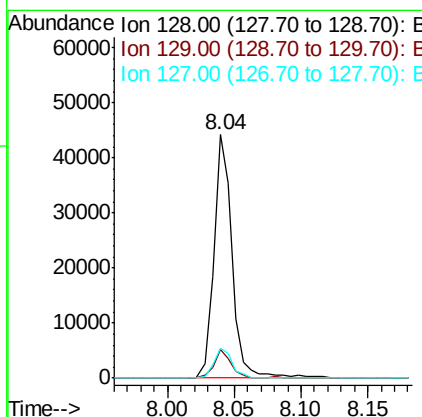
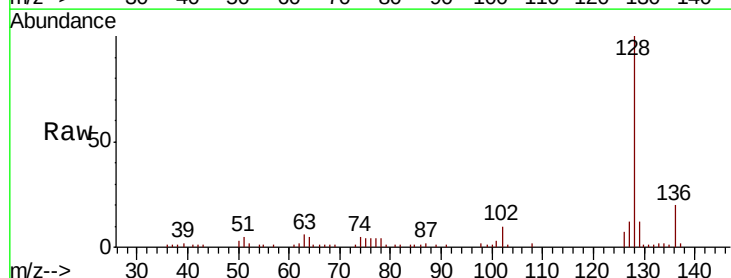
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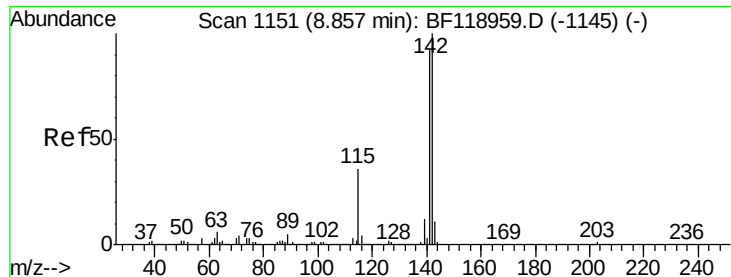
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#31
Naphthalene
Concen: 2.238 ng
RT: 8.04 min Scan# 1012
Delta R.T. -0.01 min
Lab File: BF119185.D
Acq: 2 Mar 2020 23:18

Tgt Ion	Ratio	Resp	Lower	Upper
128	100			
129	11.8	9.4	14.2	
127	12.3	11.4	17.2	





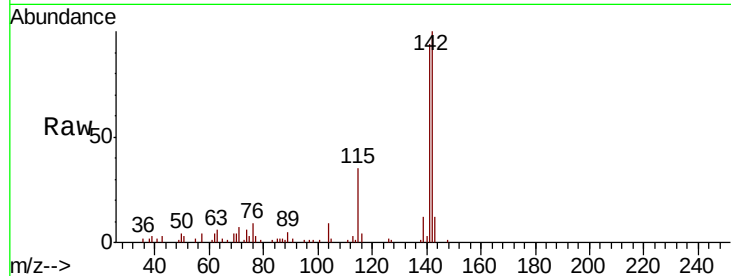
#38
1-Methylnaphthalene
Concen: 2.375 ng
RT: 8.83 min Scan# 1147
Delta R.T. -0.01 min
Lab File: BF119185.D
Acq: 2 Mar 2020 23:18

Instrument :
BNA_F
ClientSampleId :
C-3

Tot Ion	Ratio	Lower	Upper
142	100		
141	94.1	75.8	113.6
116	4.4	3.1	4.7

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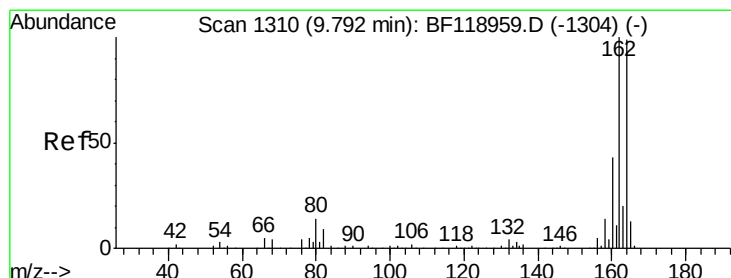
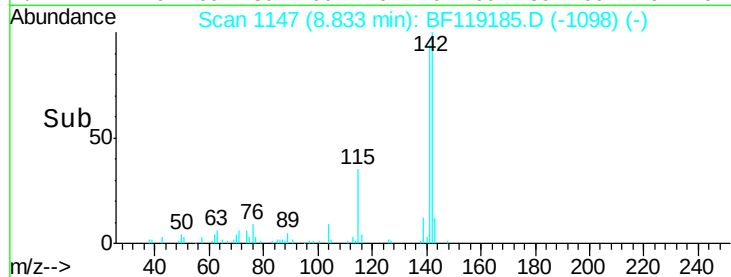
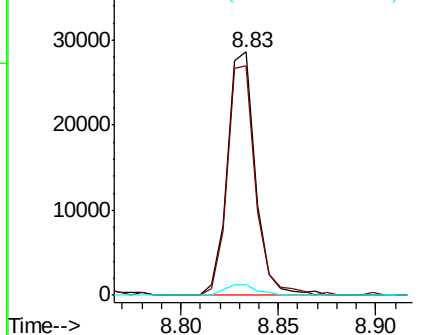


Abundance

Ion 142.00 (141.70 to 142.70): E

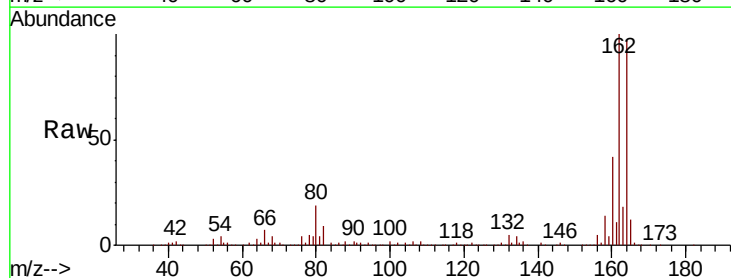
Ion 141.00 (140.70 to 141.70): E

Ion 116.00 (115.70 to 116.70): E



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.77 min Scan# 1306
Delta R.T. -0.02 min
Lab File: BF119185.D
Acq: 2 Mar 2020 23:18

Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.0	81.8	122.8
160	43.5	36.0	54.0

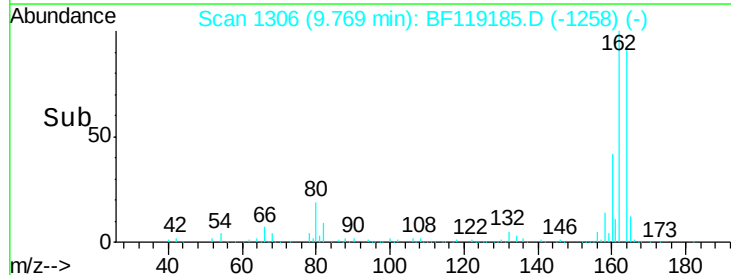
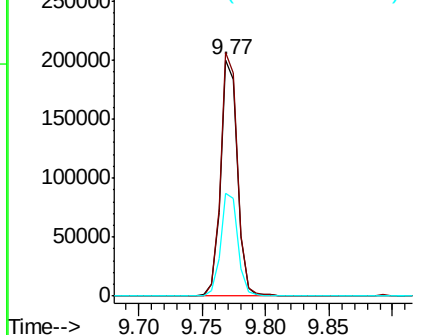


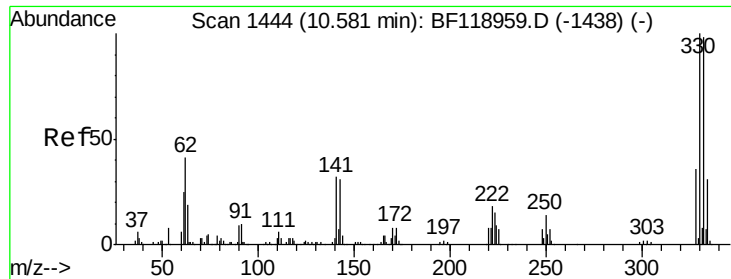
Abundance

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





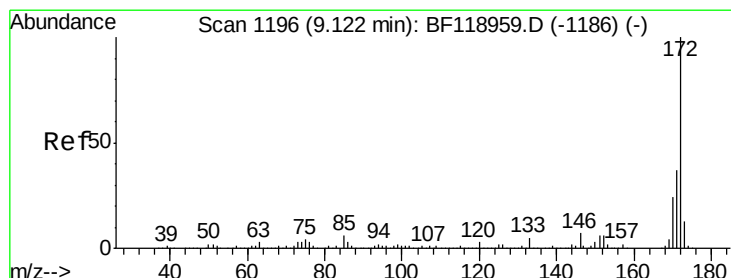
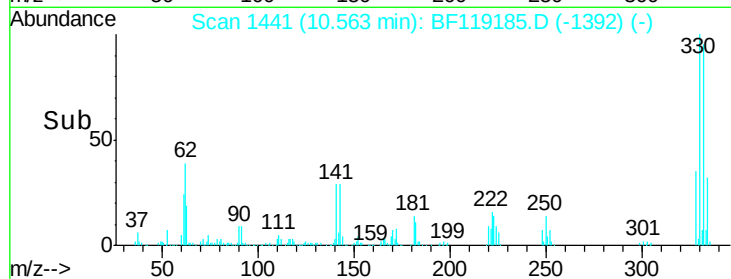
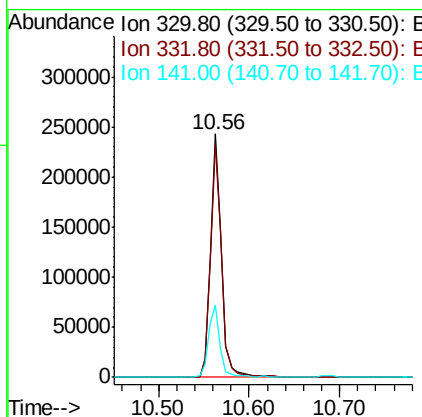
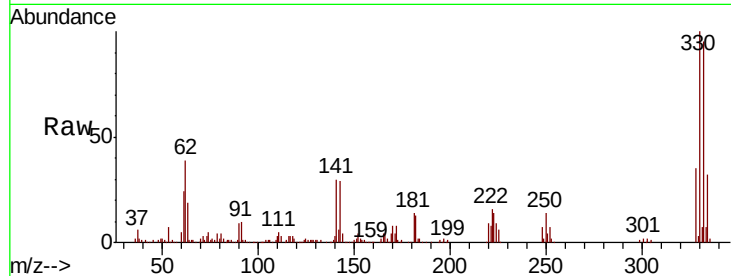
#42
 2,4,6-Tribromophenol
 Concen: 85.510 ng
 RT: 10.56 min Scan# 1441
 Delta R.T. -0.01 min
 Lab File: BF119185.D
 Acq: 2 Mar 2020 23:18

Instrument :
 BNA_F
 ClientSampled :
 C-3

Tot Ion	Ratio	Resp	Lower	Upper
330	100	209167		
332	97.4	76.0	114.0	
141	30.9	22.9	34.3	

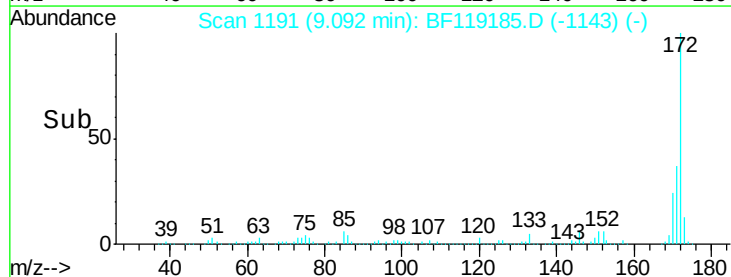
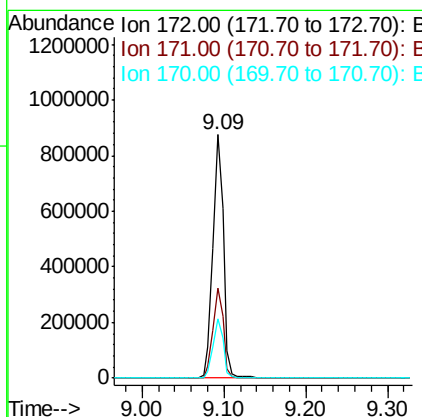
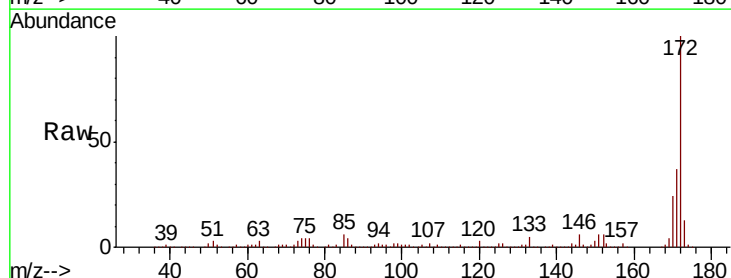
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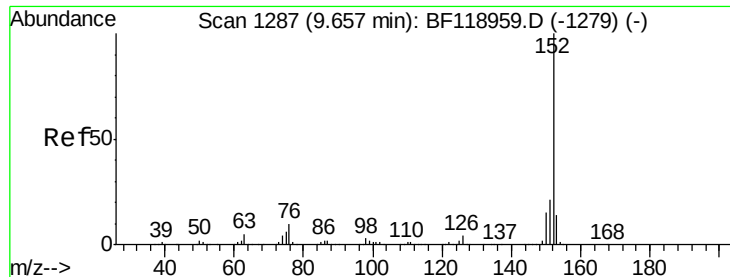
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#45
 2-Fluorobiphenyl
 Concen: 62.195 ng
 RT: 9.09 min Scan# 1191
 Delta R.T. -0.02 min
 Lab File: BF119185.D
 Acq: 2 Mar 2020 23:18

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	789427		
171	36.9	30.6	45.8	
170	24.2	20.2	30.2	





#49

Acenaphthylene

Concen: 7.308 ng

RT: 9.63 min Scan# 1283

Delta R.T. -0.01 min

Lab File: BF119185.D

Acq: 2 Mar 2020 23:18

Instrument :

BNA_F

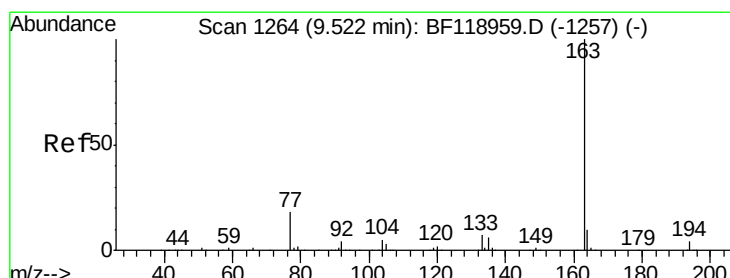
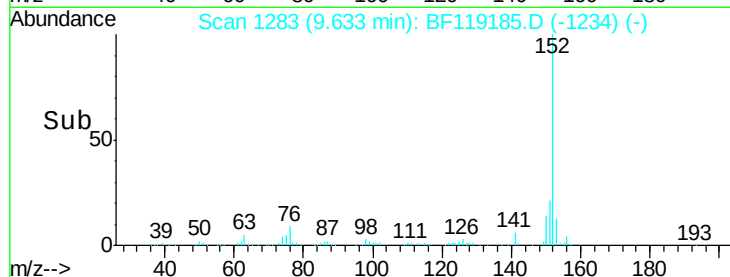
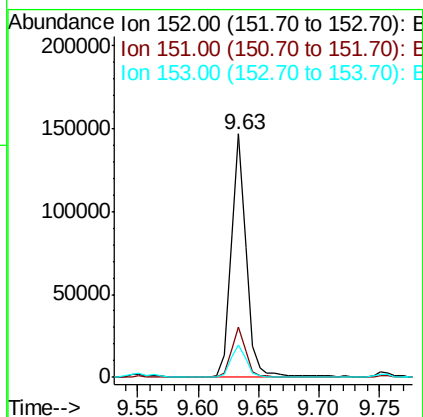
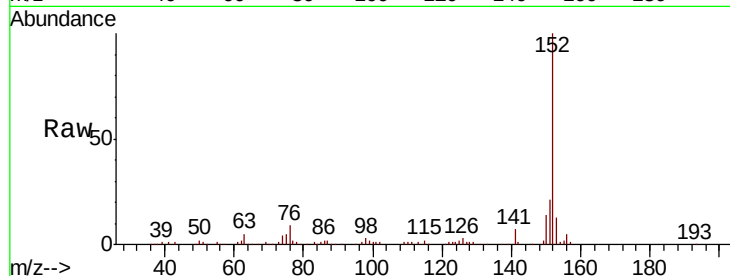
ClientSampleId :

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Tot Ion	Ion	Ratio	Resp	Lower	Upper
152	100		128545		
151	20.5		16.9	25.3	
153	13.1		11.0	16.6	

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#50

Dimethylphthalate

Concen: 6.280 ng

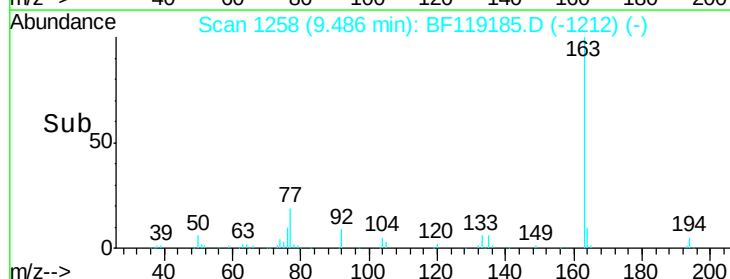
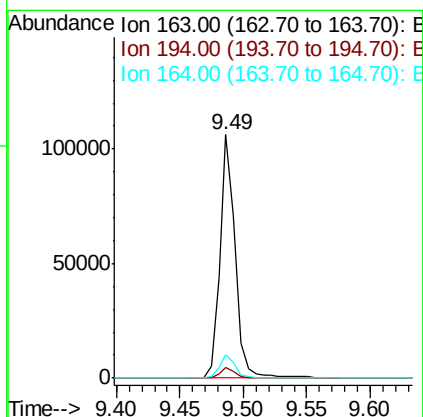
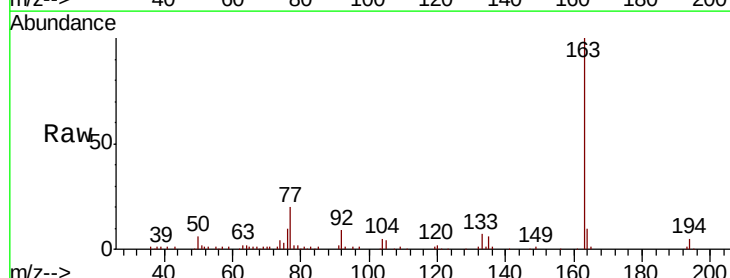
RT: 9.49 min Scan# 1258

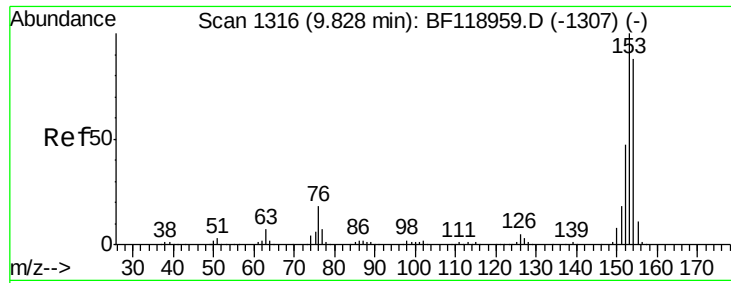
Delta R.T. -0.03 min

Lab File: BF119185.D

Acq: 2 Mar 2020 23:18

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
163	100		89801		
194	4.5		3.5	5.3	
164	9.7		8.4	12.6	





#52

Acenaphthene

Concen: 7.323 ng

RT: 9.80 min Scan# 1312

Delta R.T. -0.02 min

Lab File: BF119185.D

Acq: 2 Mar 2020 23:18

Instrument :

BNA_F

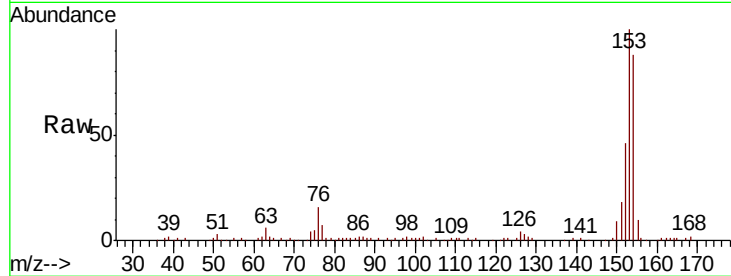
ClientSampleId :

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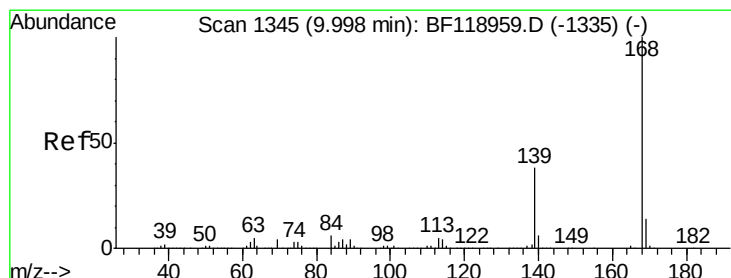
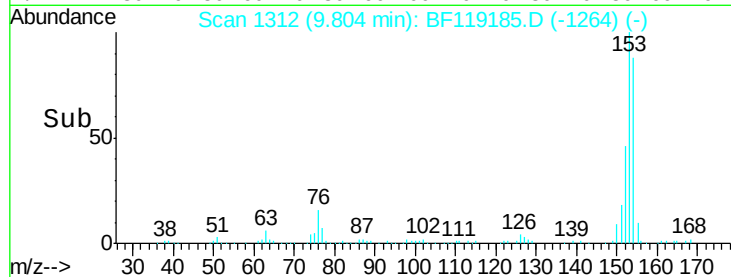
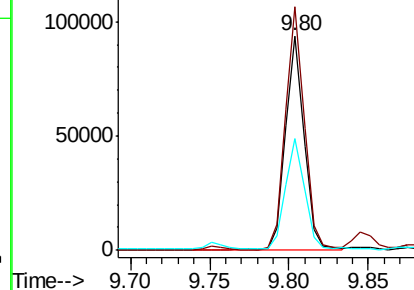
Tot Ion:	154	Resp:	77672
Ion Ratio	Lower	Upper	
154	100		
153	113.5	90.3	135.5
152	52.1	43.8	65.8

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Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E



#55

Dibenzofuran

Concen: 5.113 ng

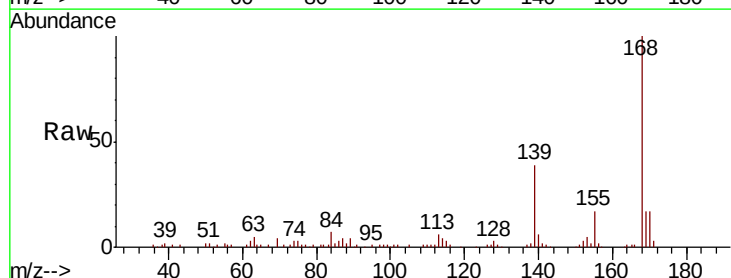
RT: 9.97 min Scan# 1341

Delta R.T. -0.02 min

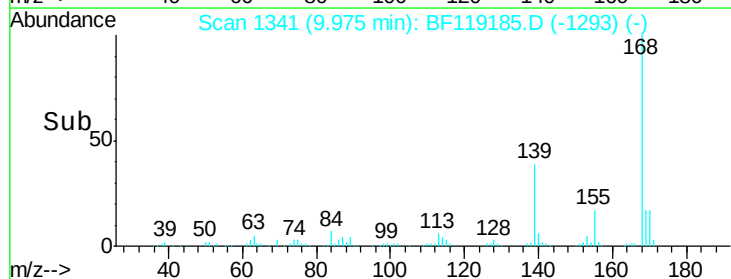
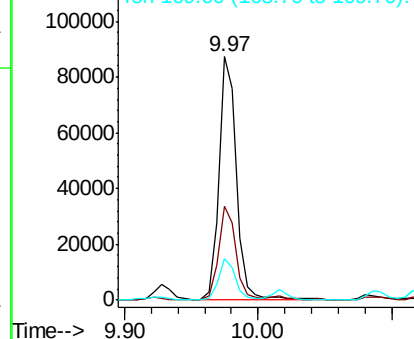
Lab File: BF119185.D

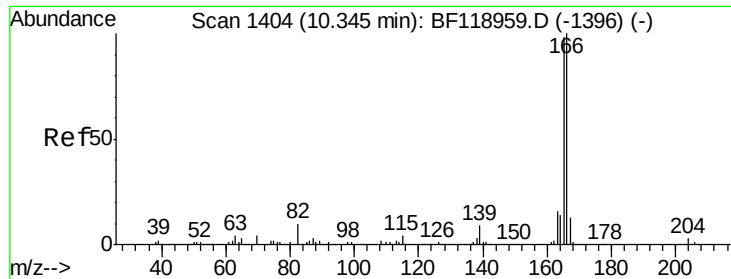
Acq: 2 Mar 2020 23:18

Tgt Ion:	168	Resp:	80942
Ion Ratio	Lower	Upper	
168	100		
139	38.8	34.0	51.0
169	16.8	11.0	16.4#



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





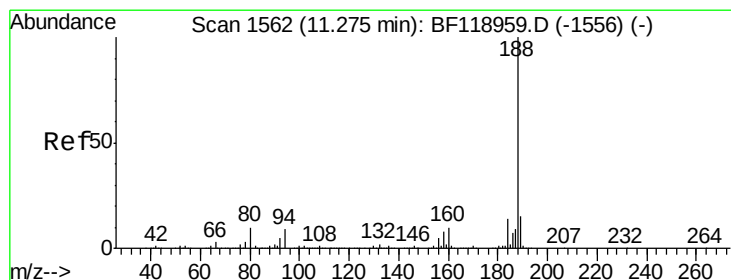
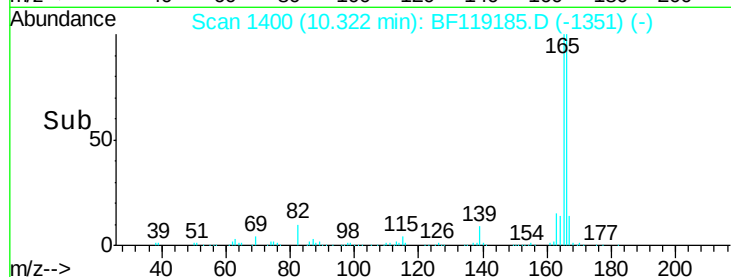
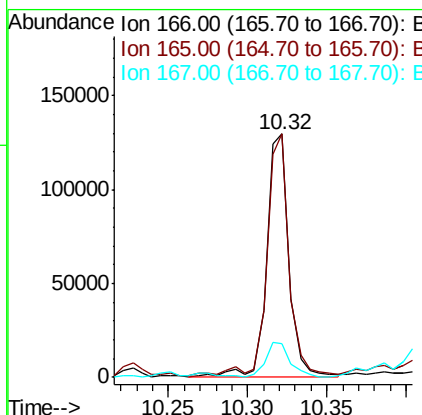
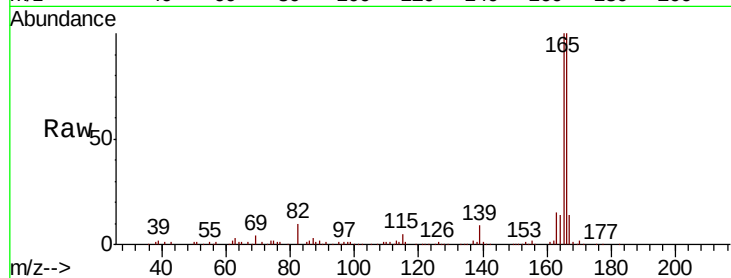
#58
 Fluorene
 Concen: 10.278 ng
 RT: 10.32 min Scan# 1400
 Delta R.T. -0.01 min
 Lab File: BF119185.D
 Acq: 2 Mar 2020 23:18

Instrument :
 BNA_F
 ClientSampleId :
 C-3

Tot Ion	Ratio	Lower	Upper
166	100		
165	99.8	78.5	117.7
167	14.1	11.0	16.4

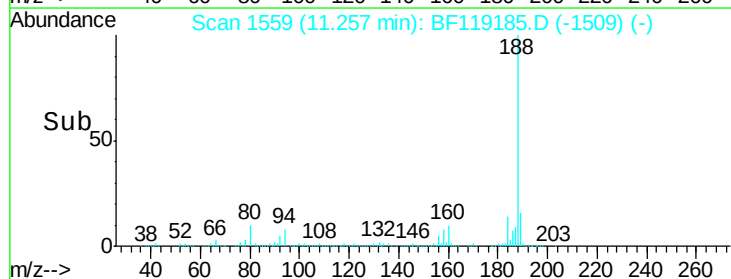
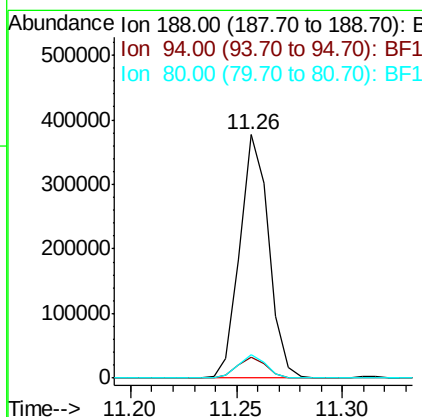
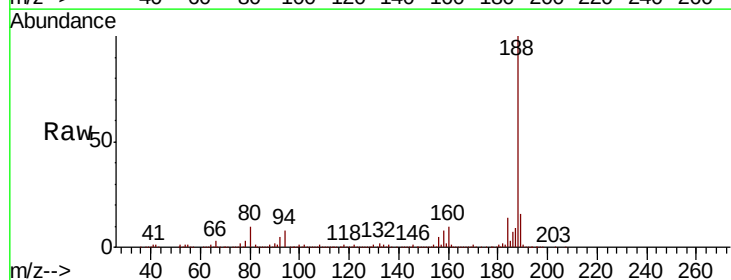
Manual Integrations
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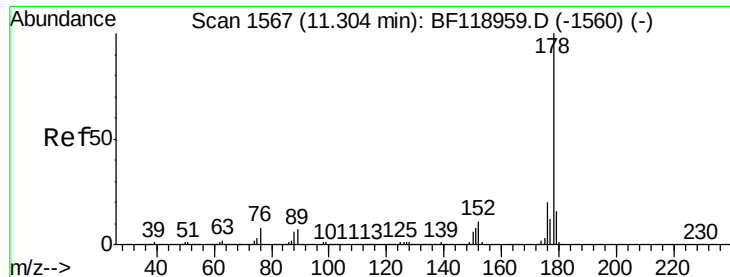
mohammad
 3/3/2020 12:26:16 PM



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.26 min Scan# 1559
 Delta R.T. -0.01 min
 Lab File: BF119185.D
 Acq: 2 Mar 2020 23:18

Tgt Ion	Ratio	Lower	Upper
188	100		
94	8.4	7.1	10.7
80	9.7	7.8	11.8





#71

Phenanthrene

Concen: 101.489 ng

RT: 11.29 min Scan# 1564

Delta R.T. -0.01 min

Lab File: BF119185.D

Acq: 2 Mar 2020 23:18

Instrument :

BNA_F

ClientSampled :

C-3

Tot Ion:178 Resp: 1977961

Ion Ratio Lower Upper

178 100

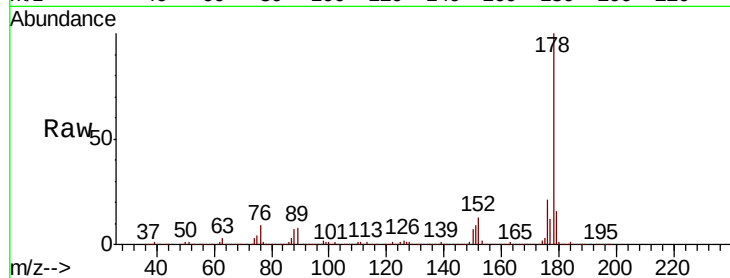
176 20.5 16.5 24.7

179 16.3 13.0 19.6

Manual Integrations
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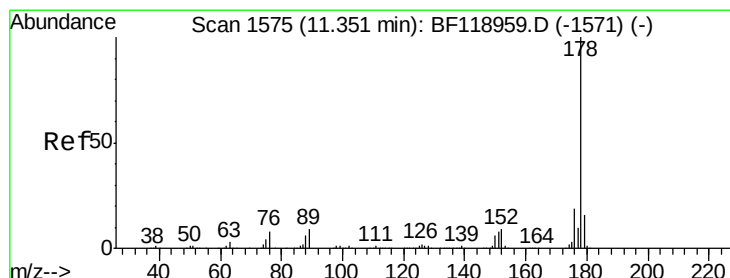
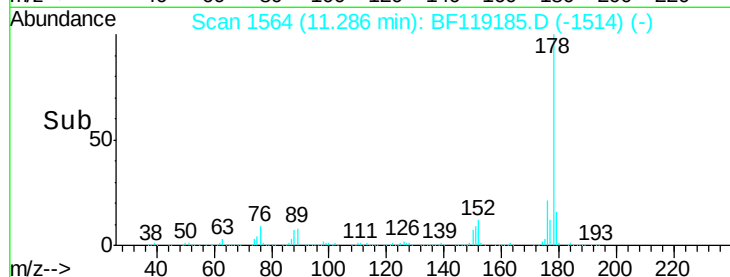
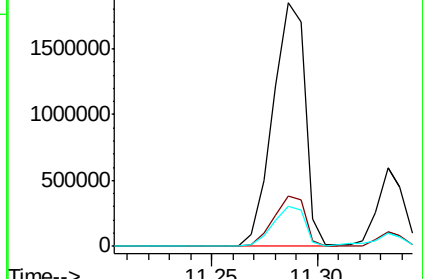
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Abundance Ion 178.00 (177.70 to 178.70): E

2500000 Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#72

Anthracene

Concen: 26.011 ng

RT: 11.33 min Scan# 1572

Delta R.T. -0.01 min

Lab File: BF119185.D

Acq: 2 Mar 2020 23:18

Tgt Ion:178 Resp: 506516

Ion Ratio Lower Upper

178 100

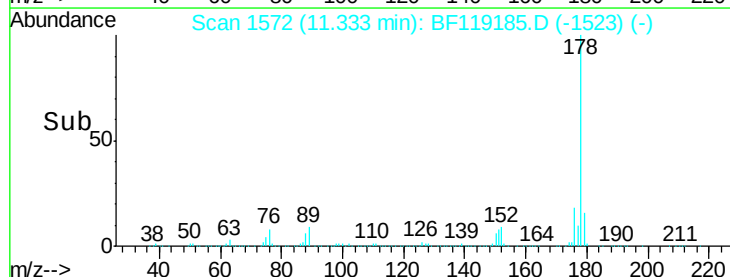
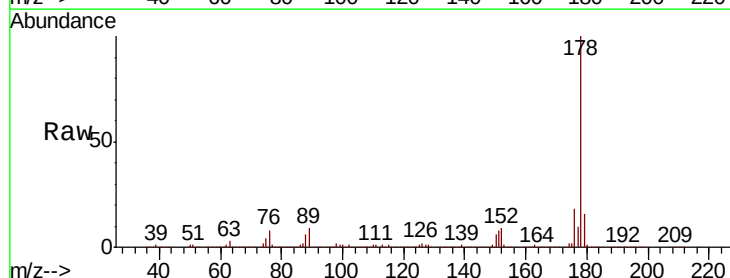
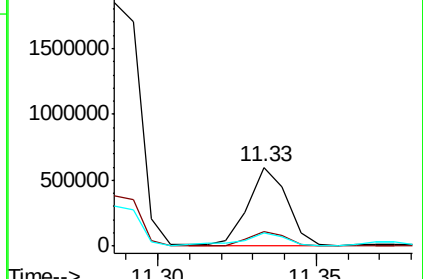
176 18.2 16.0 24.0

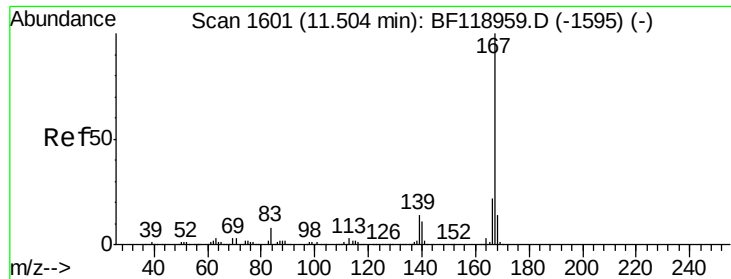
179 16.1 13.1 19.7

Abundance Ion 178.00 (177.70 to 178.70): E

2500000 Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





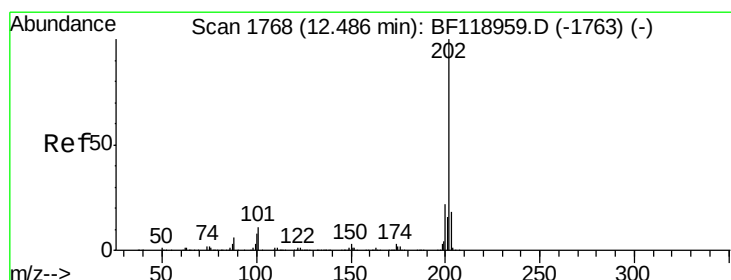
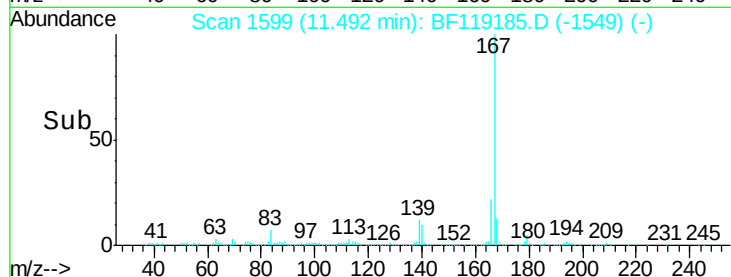
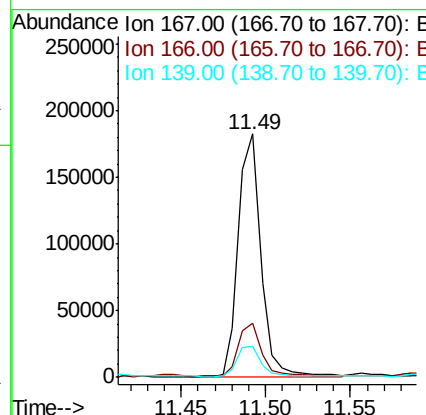
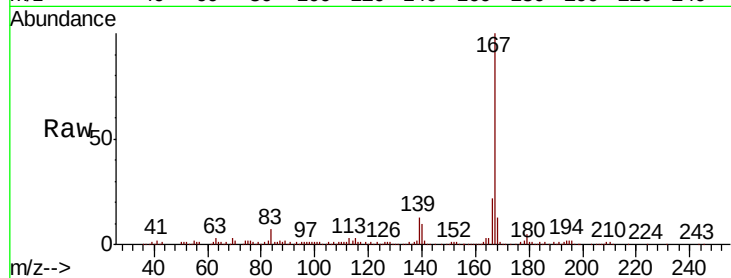
#73
 Carbazole
 Concen: 9.749 ng
 RT: 11.49 min Scan# 1599
 Delta R.T. -0.01 min
 Lab File: BF119185.D
 Acq: 2 Mar 2020 23:18

Instrument :
 BNA_F
 ClientSampled :
 C-3

Tot Ion:	167	Resp:	169136
Ion Ratio	Lower	Upper	
167	100		
166	22.2	18.2	27.4
139	12.7	11.7	17.5

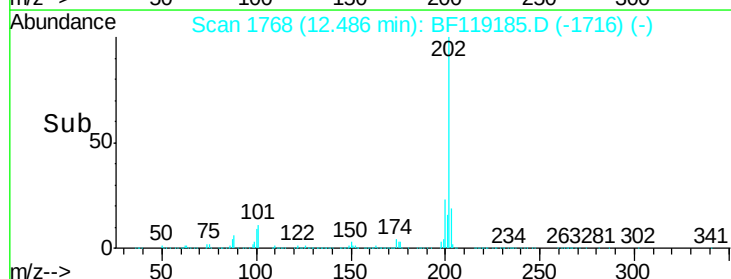
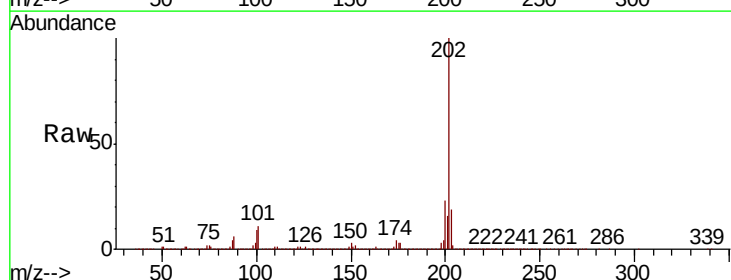
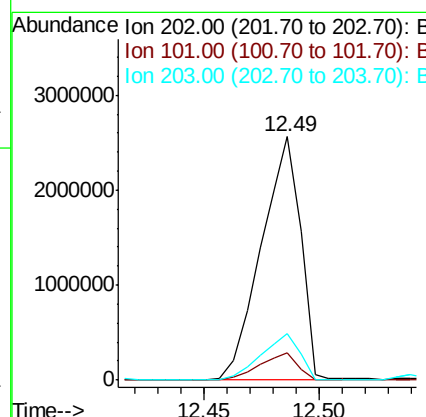
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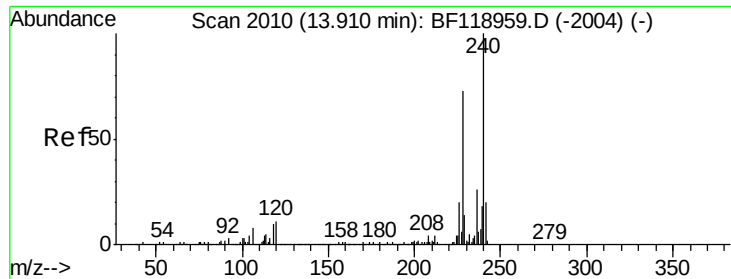
mohammad
 3/3/2020 12:26:16 PM



#75
 Fluoranthene
 Concen: 146.335 ng
 RT: 12.49 min Scan# 1768
 Delta R.T. 0.01 min
 Lab File: BF119185.D
 Acq: 2 Mar 2020 23:18

Tgt Ion:	202	Resp:	3027301
Ion Ratio	Lower	Upper	
202	100		
101	11.4	0.0	30.3
203	19.0	0.0	38.4





#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.91 min Scan# 2010

Delta R.T. 0.01 min

Lab File: BF119185.D

Acq: 2 Mar 2020 23:18

Instrument :

BNA_F

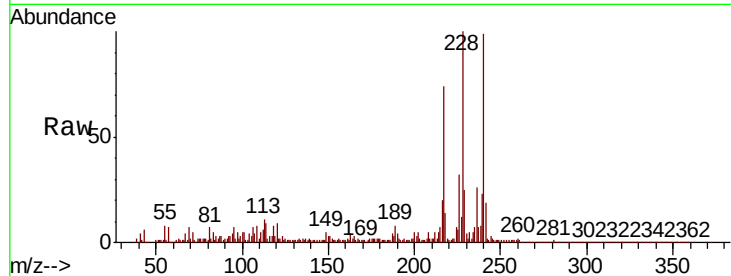
ClientSampleId :

C-3

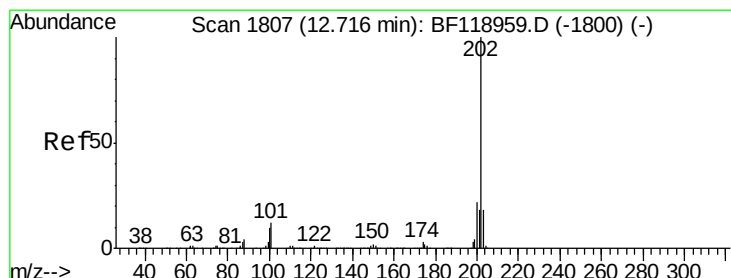
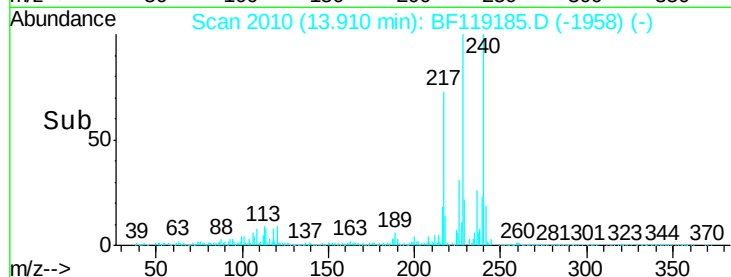
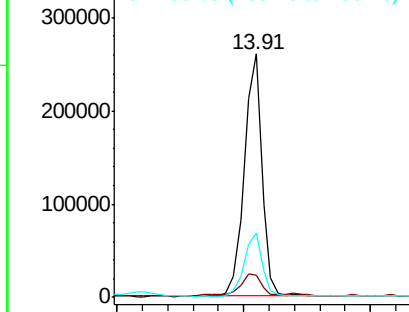
Tot Ion:	240	Resp:	250346
Ion Ratio	Lower	Upper	
240	100		
120	9.3	8.4	12.6
236	26.5	21.0	31.4

Manual Integrations
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Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E



#78

Pyrene

Concen: 135.313 ng

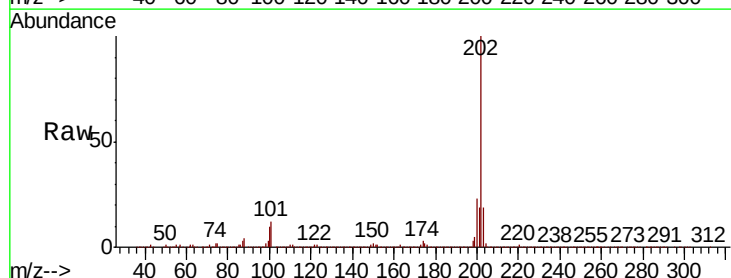
RT: 12.72 min Scan# 1807

Delta R.T. 0.01 min

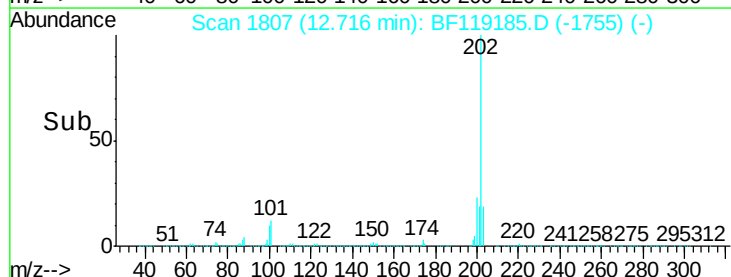
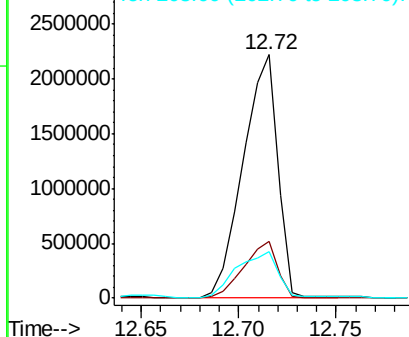
Lab File: BF119185.D

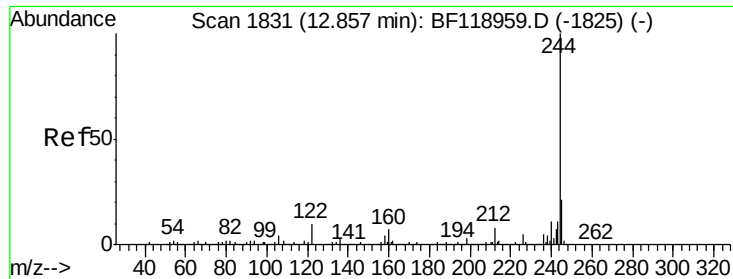
Acq: 2 Mar 2020 23:18

Tgt Ion:	202	Resp:	2720132
Ion Ratio	Lower	Upper	
202	100		
200	23.2	18.0	27.0
203	19.3	14.6	22.0



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





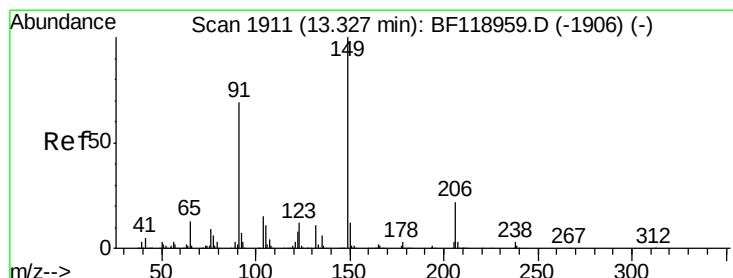
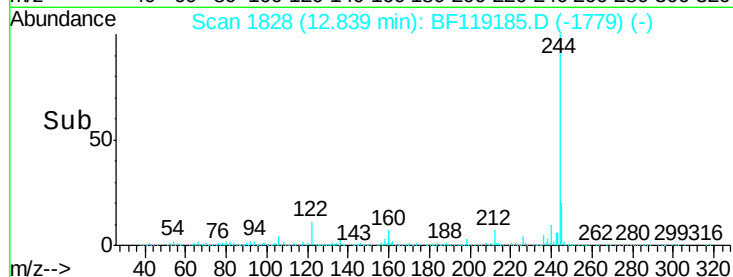
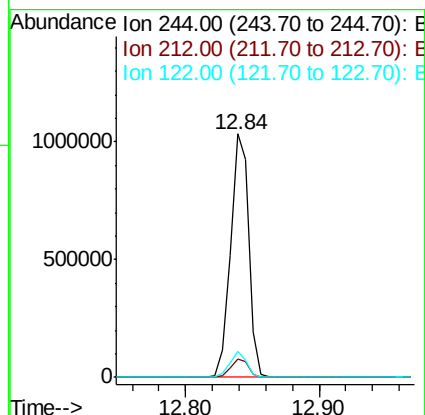
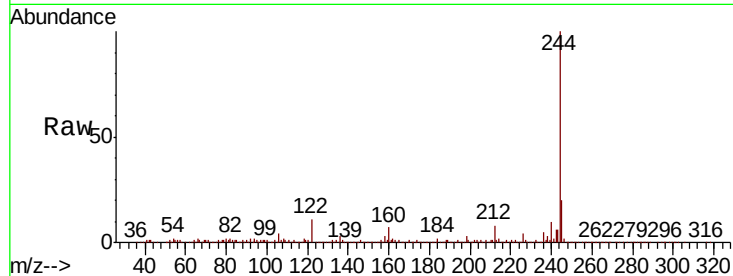
#79
 Terphenyl-d14
 Concen: 68.539 ng
 RT: 12.84 min Scan# 1828
 Delta R.T. -0.01 min
 Lab File: BF119185.D
 Acq: 2 Mar 2020 23:18

Instrument :
 BNA_F
 ClientSampleId :
 C-3

Tot Ion	Ratio	Resp	Lower	Upper
244	100			
212	7.5	6.6	10.0	
122	10.6	8.2	12.2	

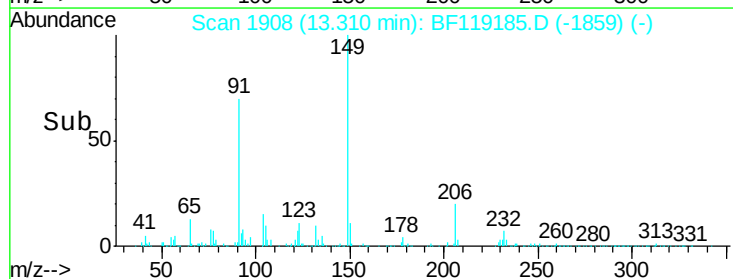
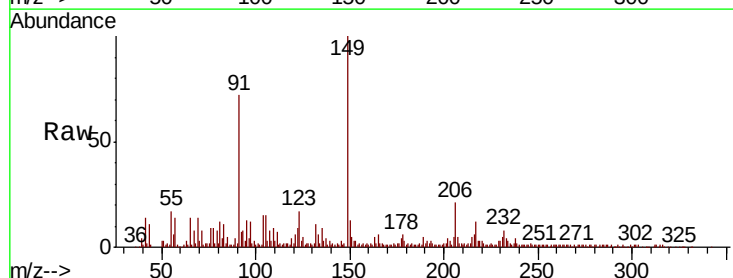
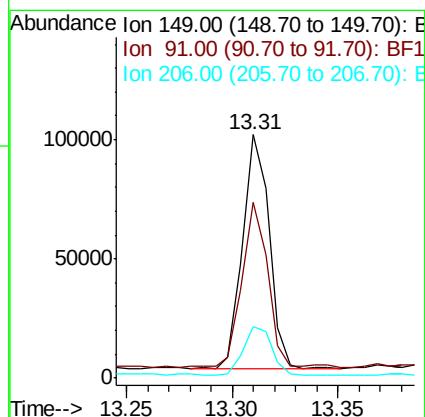
Manual Integrations
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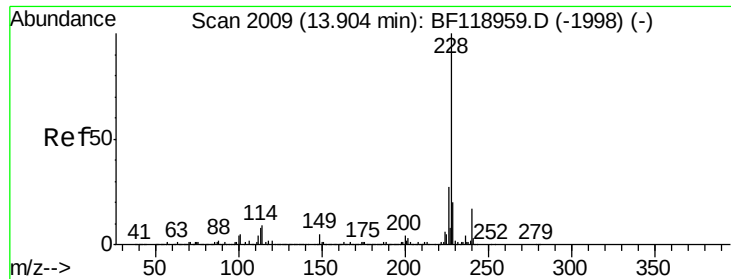
mohammad
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#80
 Butylbenzylphthalate
 Concen: 10.168 ng
 RT: 13.31 min Scan# 1908
 Delta R.T. -0.01 min
 Lab File: BF119185.D
 Acq: 2 Mar 2020 23:18

Tgt Ion	Ratio	Resp	Lower	Upper
149	100			
91	72.0	52.3	78.5	
206	21.3	18.5	27.7	





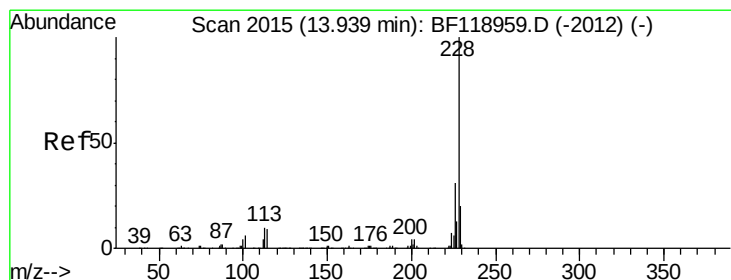
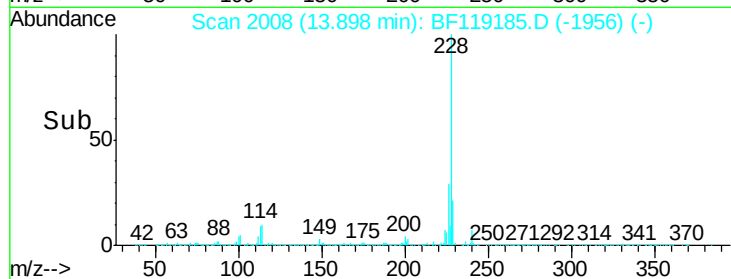
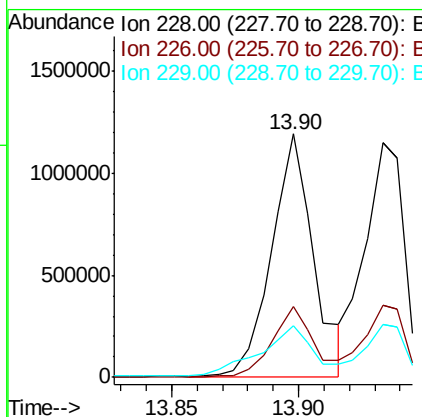
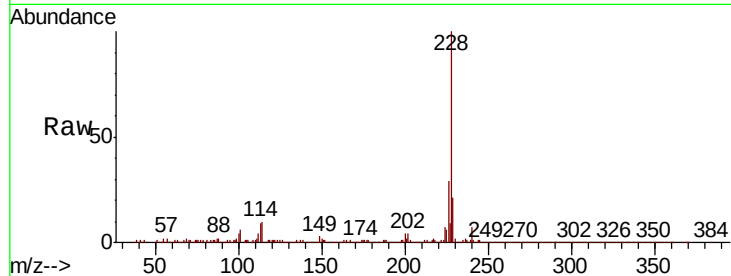
#81
Benzo(a)anthracene
Concen: 80.373 ng
RT: 13.90 min Scan# 2008
Delta R.T. 0.01 min
Lab File: BF119185.D
Acq: 2 Mar 2020 23:18

Instrument :
BNA_F
ClientSampleId :
C-3

Tot Ion	Ratio	Lower	Upper
228	100		
226	29.0	22.6	33.8
229	21.1	16.6	24.8

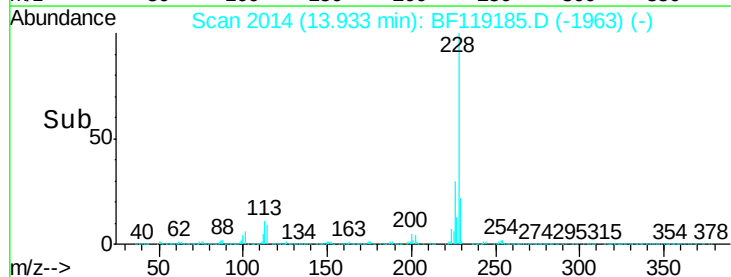
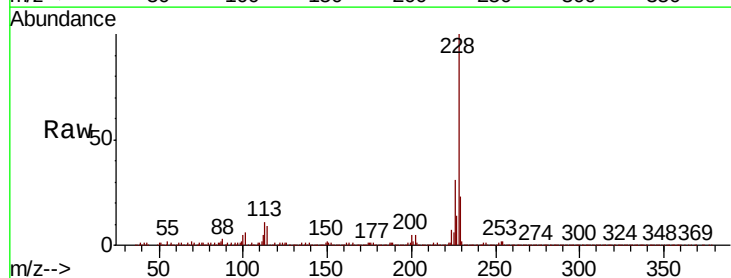
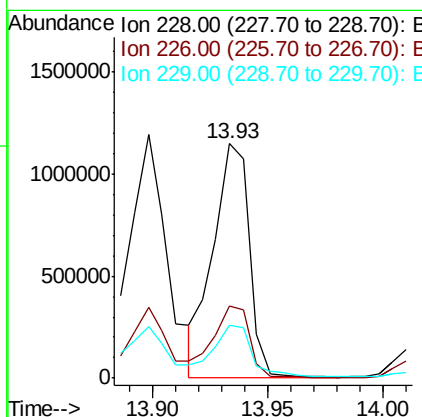
Manual Integrations
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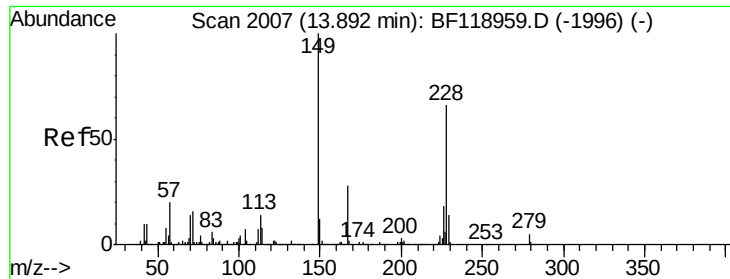
mohammad
3/3/2020 12:26:16 PM



#83
Chrysene
Concen: 73.137 ng
RT: 13.93 min Scan# 2014
Delta R.T. -0.00 min
Lab File: BF119185.D
Acq: 2 Mar 2020 23:18

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.7	25.1	37.7
229	22.8	16.3	24.5





#84

Bis(2-ethylhexyl)phthalate

Concen: 233.811 ng

RT: 13.89 min Scan# 2006

Delta R.T. 0.01 min

Lab File: BF119185.D

Acq: 2 Mar 2020 23:18

Instrument :

BNA_F

ClientSampleId :

C-3

Tot Ion:149 Resp: 2499138

Ion Ratio Lower Upper

149 100

167 30.0 22.8 34.2

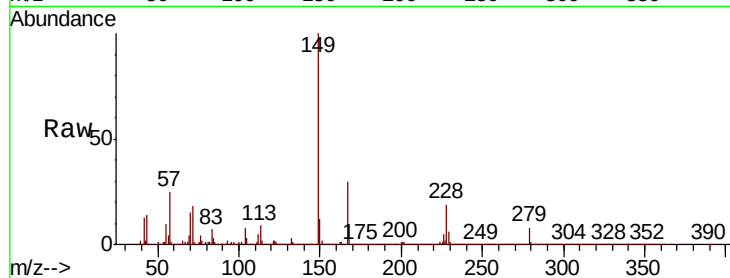
279 7.9 4.6 6.8#

Manual Integrations

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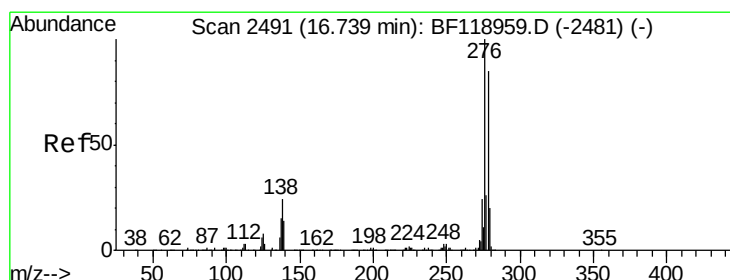
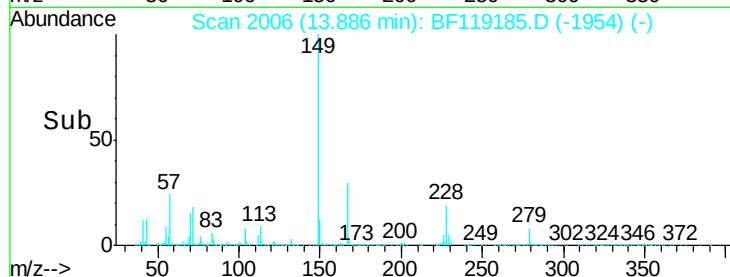
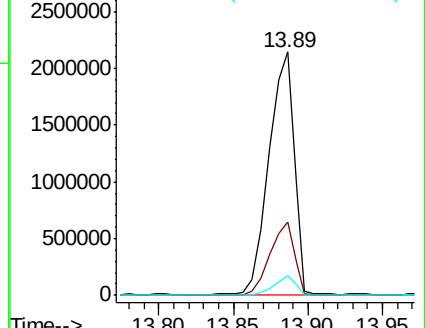
3/3/2020 12:26:16 PM



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E



#86

Indeno(1,2,3-cd)pyrene

Concen: 31.577 ng

RT: 16.75 min Scan# 2493

Delta R.T. 0.01 min

Lab File: BF119185.D

Acq: 2 Mar 2020 23:18

Tgt Ion:276 Resp: 519675

Ion Ratio Lower Upper

276 100

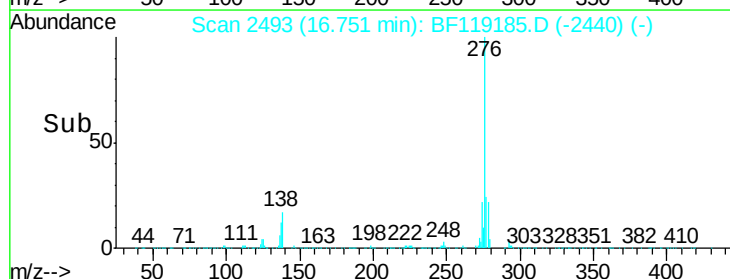
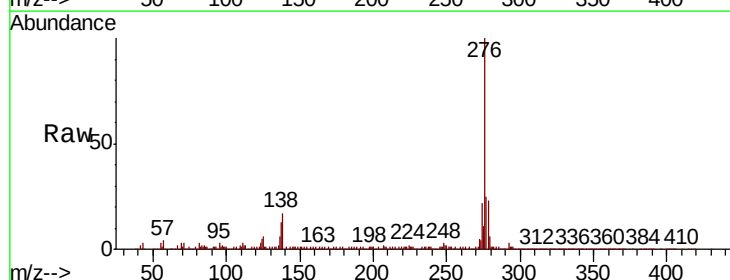
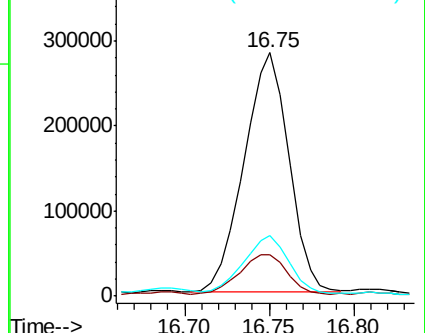
138 17.9 17.4 26.0

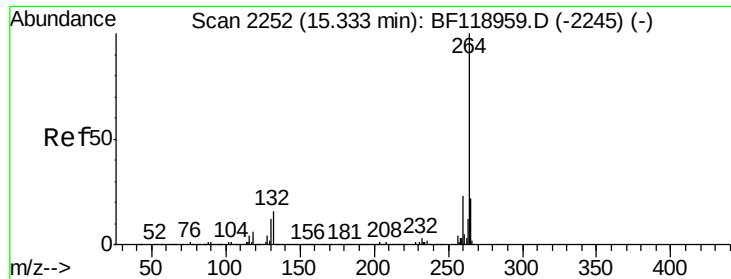
277 24.6 20.3 30.5

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





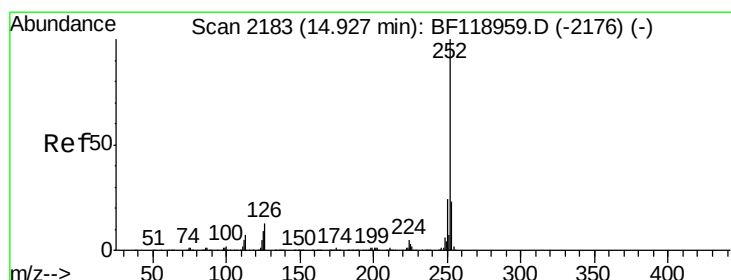
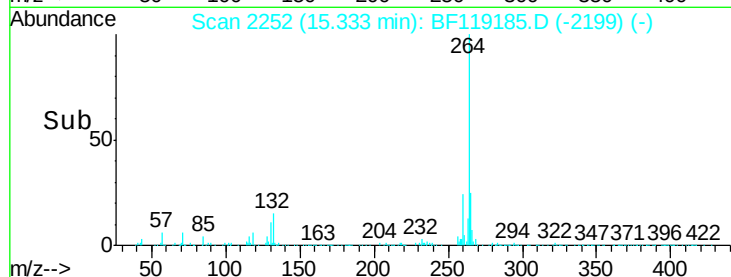
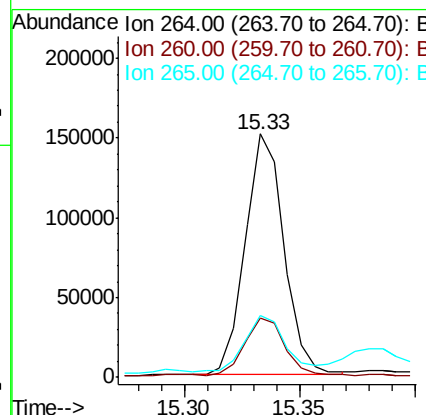
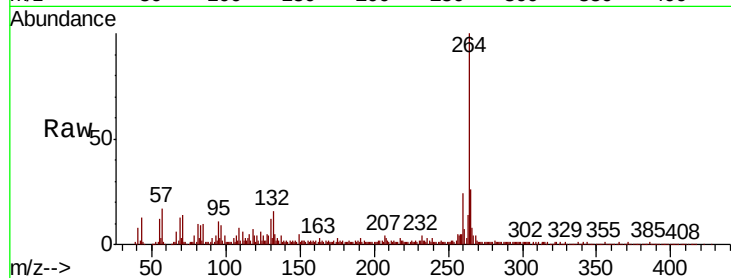
#87
Pervlene-d12
Concen: 20.000 ng
RT: 15.33 min Scan# 2252
Delta R.T. 0.01 min
Lab File: BF119185.D
Acq: 2 Mar 2020 23:18

Instrument :
BNA_F
ClientSampleId :
C-3

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.3	19.4	29.2
265	25.5	17.7	26.5

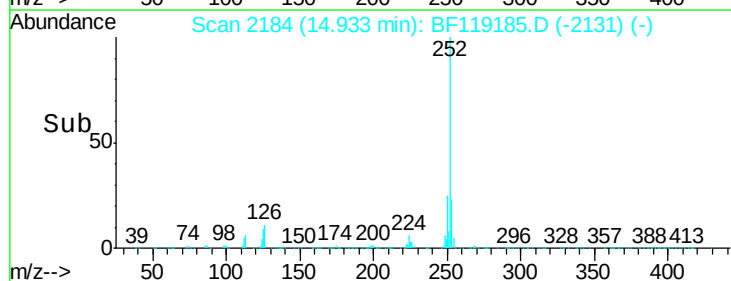
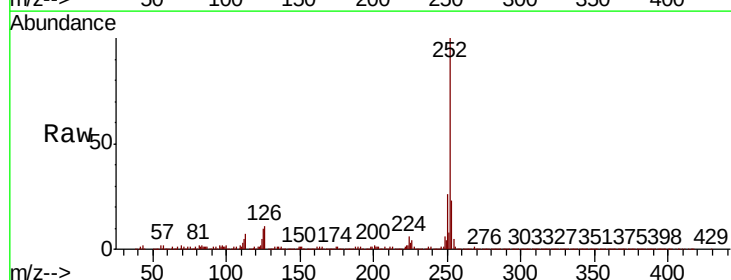
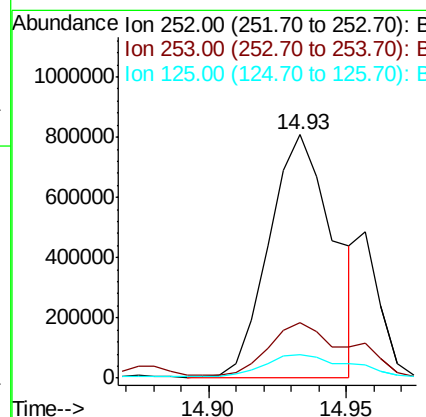
Manual Integrations
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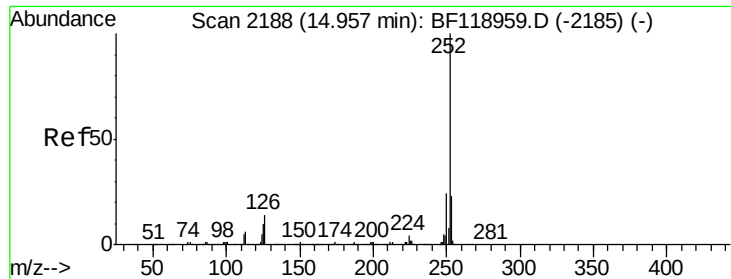
mohammad
3/3/2020 12:26:16 PM



#88
Benzo(b)fluoranthene
Concen: 113.216 ng m
RT: 14.93 min Scan# 2184
Delta R.T. 0.01 min
Lab File: BF119185.D
Acq: 2 Mar 2020 23:18

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.0	18.1	27.1
125	9.8	7.4	11.0





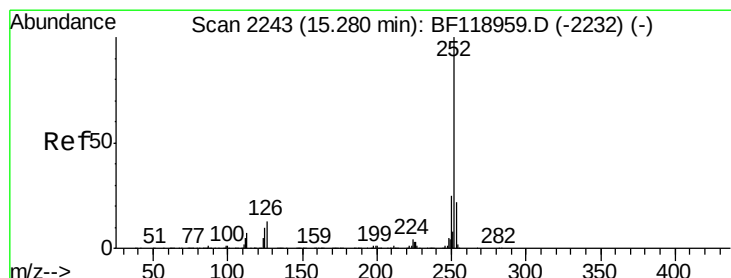
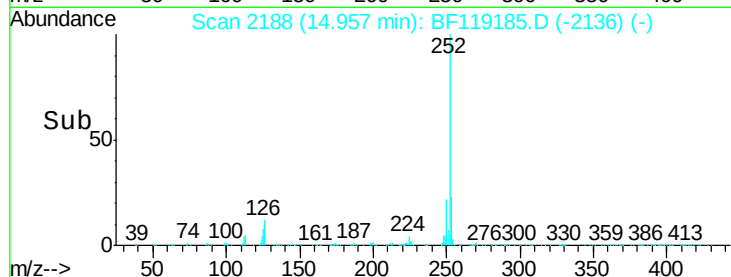
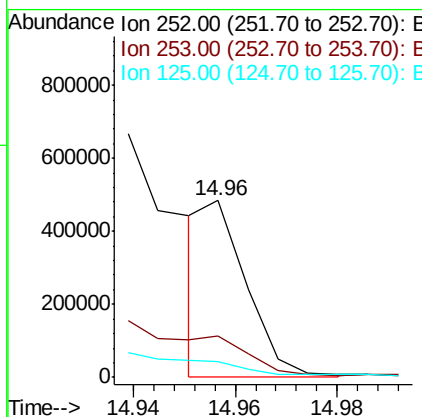
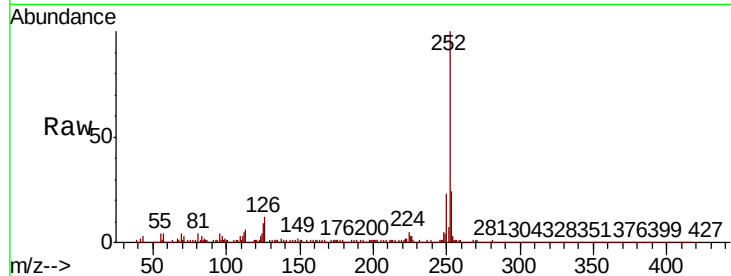
#89
Benzo(k)fluoranthene
Concen: 25.815 ng m
RT: 14.96 min Scan# 2188
Delta R.T. 0.01 min
Lab File: BF119185.D
Acq: 2 Mar 2020 23:18

Instrument :
BNA_F
ClientSampleId :
C-3

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.6	17.8	26.8
125	9.2	7.5	11.3

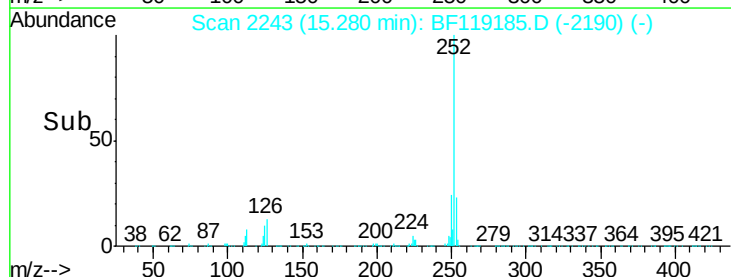
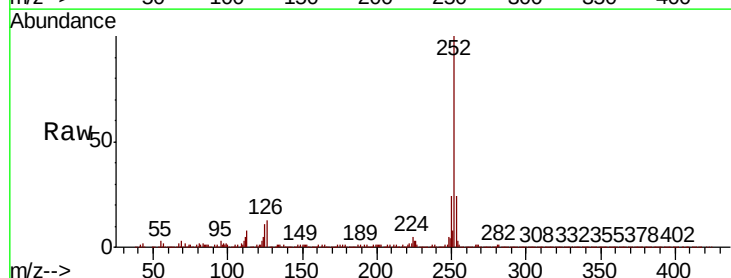
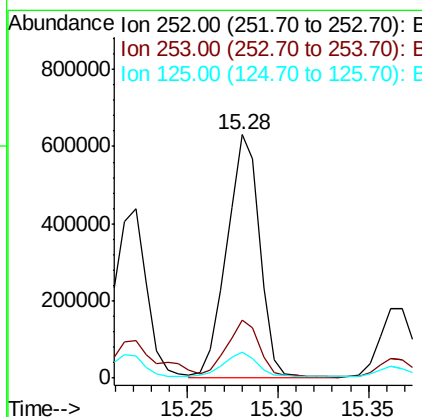
Manual Integrations
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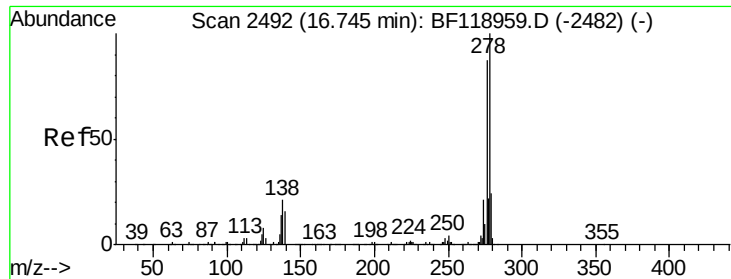
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#90
Benzo(a)pyrene
Concen: 74.809 ng
RT: 15.28 min Scan# 2243
Delta R.T. 0.01 min
Lab File: BF119185.D
Acq: 2 Mar 2020 23:18

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.6	18.0	27.0
125	10.6	8.6	12.8





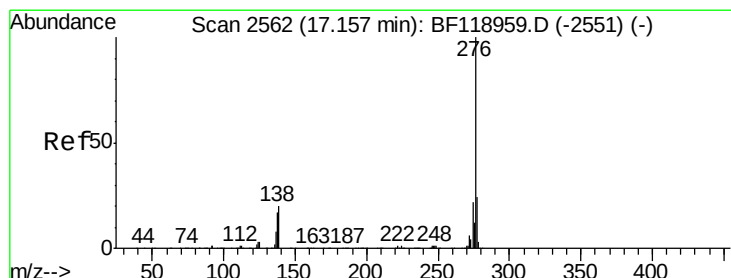
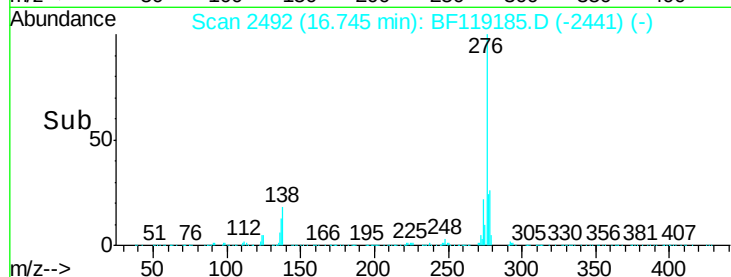
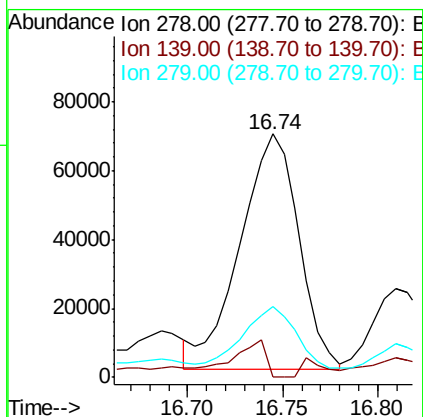
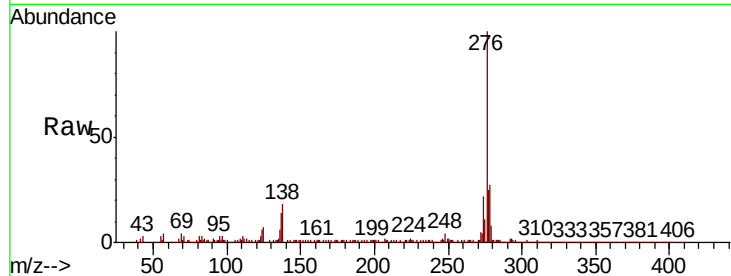
#91
Dibenzo(a,h)anthracene
Concen: 15.781 ng m
RT: 16.74 min Scan# 2492
Delta R.T. -0.00 min
Lab File: BF119185.D
Acq: 2 Mar 2020 23:18

Instrument :
BNA_F
ClientSampleId :
C-3

Tot Ion	Ratio	Lower	Upper
278	100		
139	0.0	11.0	16.4#
279	29.2	18.6	28.0#

Manual Integrations
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#92
Benzo(g,h,i)perylene
Concen: 55.617 ng
RT: 17.18 min Scan# 2566
Delta R.T. 0.02 min
Lab File: BF119185.D
Acq: 2 Mar 2020 23:18

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.7	18.7	28.1
138	18.3	14.3	21.5

