

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF123119\
 Data File : BF118418.D
 Acq On : 31 Dec 2019 21:16
 Operator : JU
 Sample : K6465-02 5X
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 GP-11-(5-6)

Manual Integrations
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 1/2/2020 11:50:19 AM

Quant Time: Jan 01 03:17:19 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF122419.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Dec 24 15:58:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.85	152	58305	20.00	ng	0.00
21) Naphthalene-d8	8.14	136	231807	20.00	ng	0.00
39) Acenaphthene-d10	9.90	164	126555	20.00	ng	0.00
64) Phenanthrene-d10	11.40	188	221231	20.00	ng	0.00
76) Chrysene-d12	14.06	240	178525	20.00	ng	0.01
87) Perylene-d12	15.56	264	173732	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.47	112	62965	18.43	ng	0.01
7) Phenol-d6	6.49	99	81655	19.27	ng	0.00
23) Nitrobenzene-d5	7.42	82	58703	14.48	ng	0.00
42) 2,4,6-Tribromophenol	10.70	330	25517	16.33	ng	0.01
45) 2-Fluorobiphenyl	9.22	172	117029	14.12	ng	0.00
79) Terphenyl-d14	12.99	244	105239	9.78	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.16	128	610300	51.800	ng	99
37) 2-Methylnaphthalene	8.86	142	119603	14.827	ng	98
38) 1-Methylnaphthalene	8.96	142	85369	11.233	ng	100
46) 1,1'-Biphenyl	9.32	154	51841	5.179	ng	97
52) Acenaphthene	9.93	154	215985	29.677	ng	99
55) Dibenzofuran	10.11	168	251696	23.406	ng	97
58) Fluorene	10.46	166	331730	38.214	ng	100
71) Phenanthrene	11.44	178	2572801	213.327	ng	99
72) Anthracene	11.48	178	703445	58.272	ng	99
73) Carbazole	11.63	167	175781	16.410	ng	98
75) Fluoranthene	12.63	202	1864186	153.159	ng	97
78) Pyrene	12.86	202	1877212	128.766	ng	98
81) Benzo(a)anthracene	14.05	228	932555	74.627	ng	99
83) Chrysene	14.09	228	749768	62.661	ng	97
86) Indeno(1,2,3-cd)pyrene	17.07	276	221445	21.720	ng	# 95
88) Benzo(b)fluoranthene	15.12	252	739350m	64.111	ng	
89) Benzo(k)fluoranthene	15.14	252	155268m	14.022	ng	
90) Benzo(a)pyrene	15.50	252	561490	55.270	ng	97
91) Dibenzo(a,h)anthracene	17.07	278	60608m	6.875	ng	
92) Benzo(a,h,i)perylene	17.53	276	211805	24.871	ng	98

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

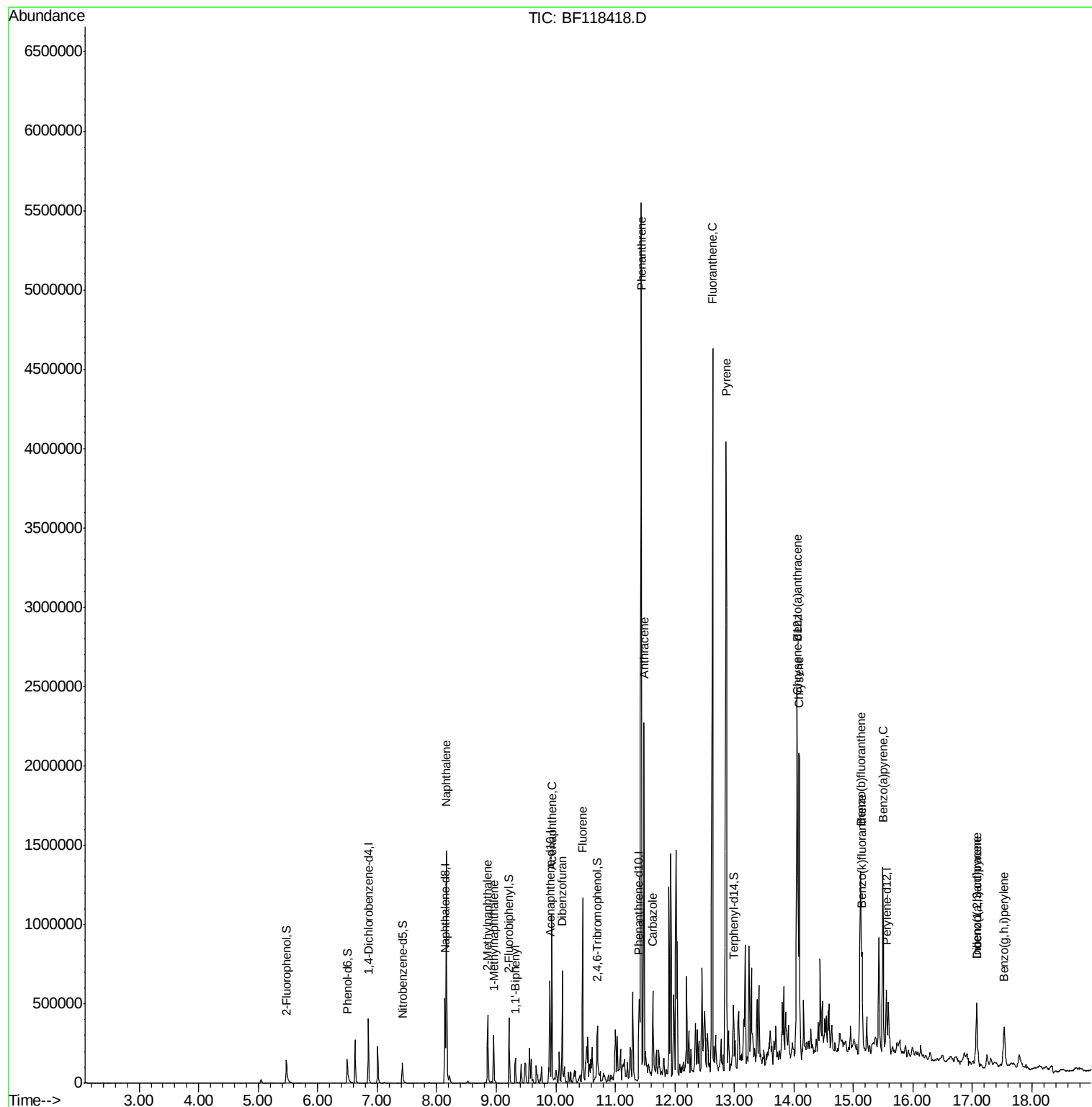
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF123119\
Data File : BF118418.D
Acq On : 31 Dec 2019 21:16
Operator : JU
Sample : K6465-02 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

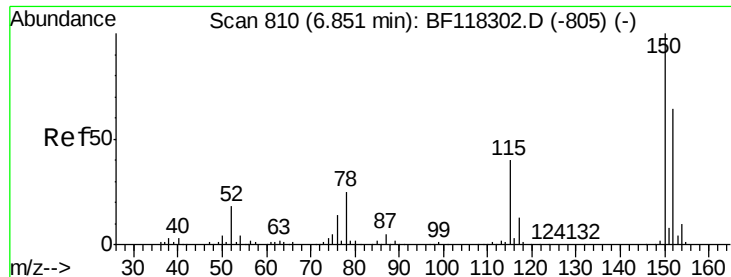
Instrument :
BNA_F
ClientSampled :
GP-11-(5-6)

Quant Time: Jan 01 03:17:19 2020
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF122419.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Dec 24 15:58:52 2019
Response via : Initial Calibration

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#1

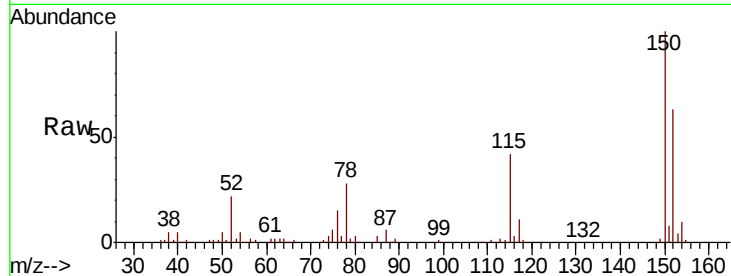
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.85 min Scan# 810
Delta R.T. -0.00 min
Lab File: BF118418.D
Acq: 31 Dec 2019 21:16

Instrument :
BNA_F
ClientSampled :
GP-11-(5-6)

Tot Ion	Ratio	Lower	Upper
152	100		
150	159.5	125.4	188.2
115	67.6	50.2	75.4

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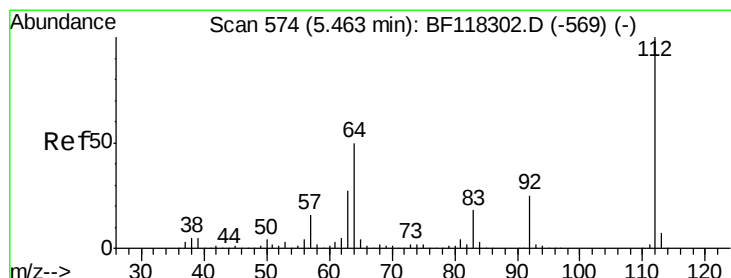
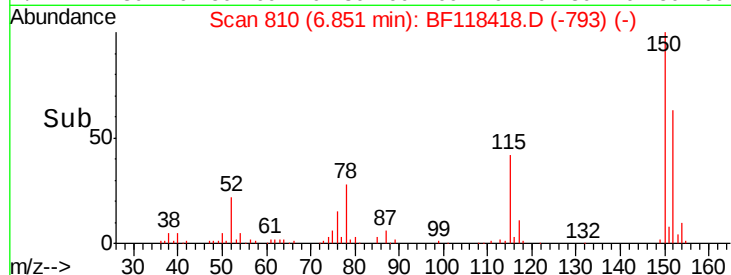
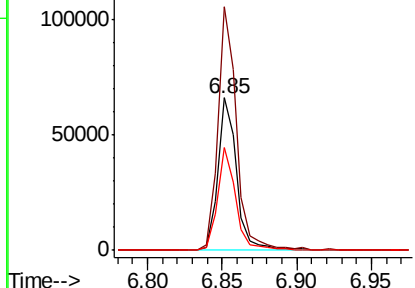


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

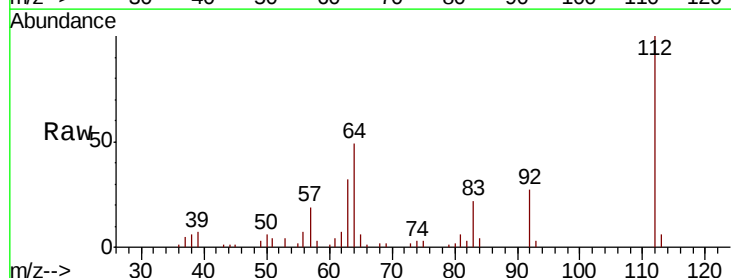
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 18.434 ng
RT: 5.47 min Scan# 576
Delta R.T. 0.01 min
Lab File: BF118418.D
Acq: 31 Dec 2019 21:16

Tgt Ion	Ratio	Lower	Upper
112	100		
64	49.4	39.7	59.5
63	32.0	21.7	32.5

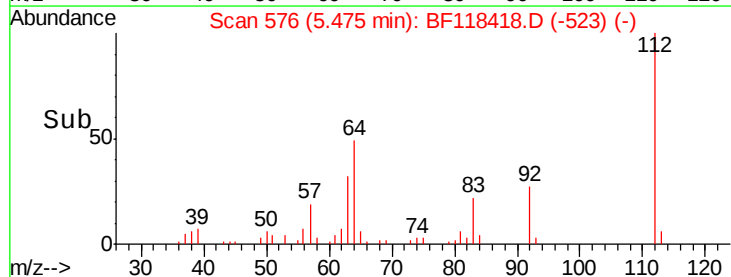
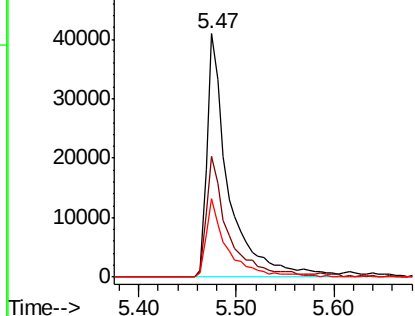


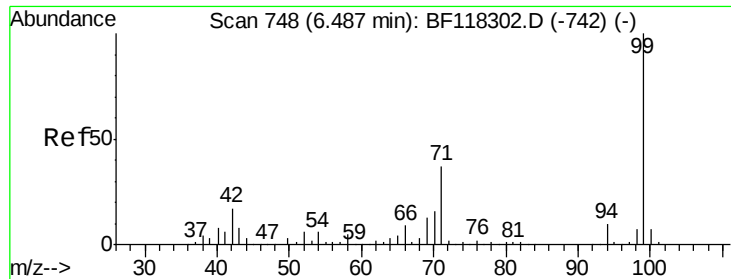
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 19.271 ng

RT: 6.49 min Scan# 749

Delta R.T. 0.01 min

Lab File: BF118418.D

Acq: 31 Dec 2019 21:16

Instrument :

BNA_F

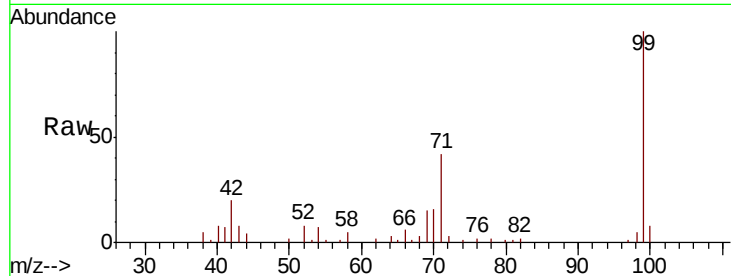
ClientSampleId :

GP-11-(5-6)

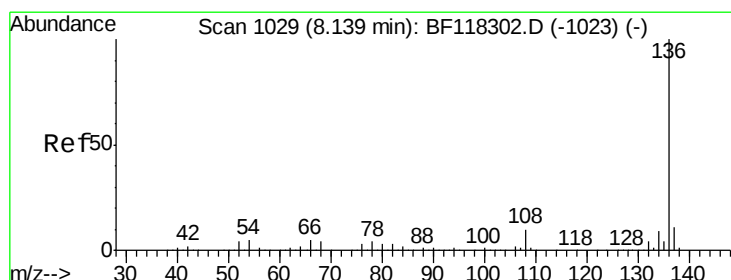
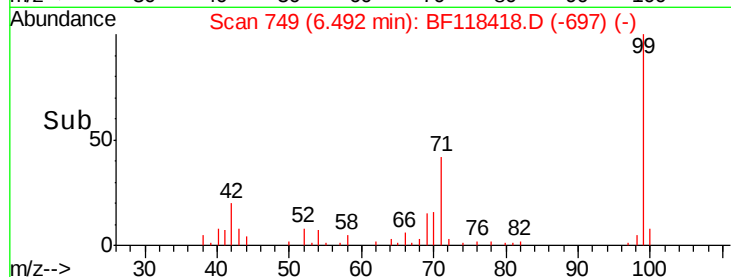
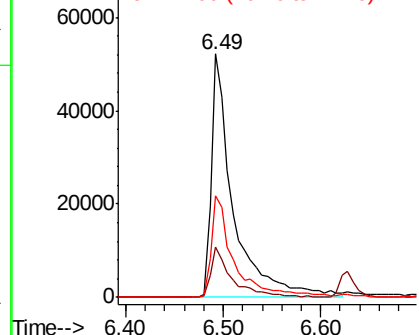
Tot Ion:	99	Resp:	81655
Ion Ratio	Lower	Upper	
99	100		
42	20.4	13.5	20.3#
71	41.6	29.4	44.2

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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: 8.14 min Scan# 1029

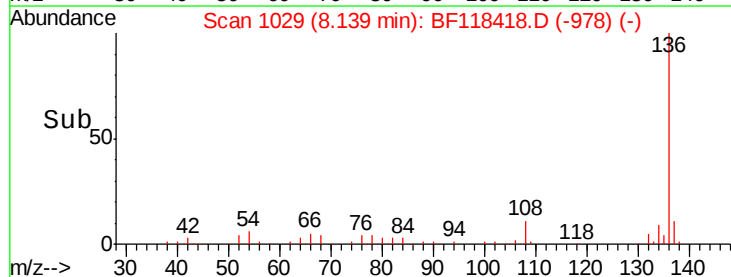
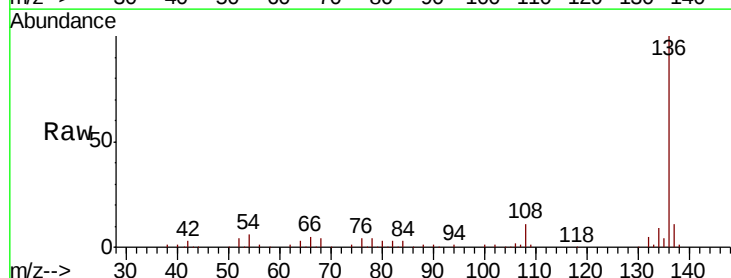
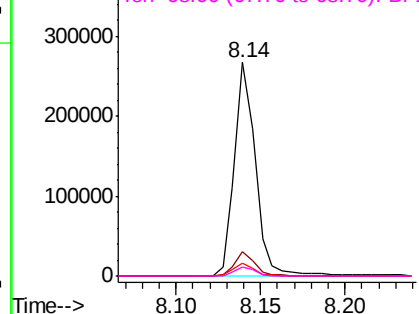
Delta R.T. -0.00 min

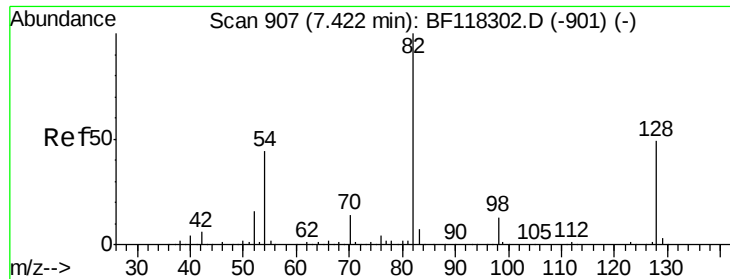
Lab File: BF118418.D

Acq: 31 Dec 2019 21:16

Tgt Ion:	136	Resp:	231807
Ion Ratio	Lower	Upper	
136	100		
137	11.3	8.9	13.3
54	6.1	4.2	6.4
68	4.1	3.5	5.3

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





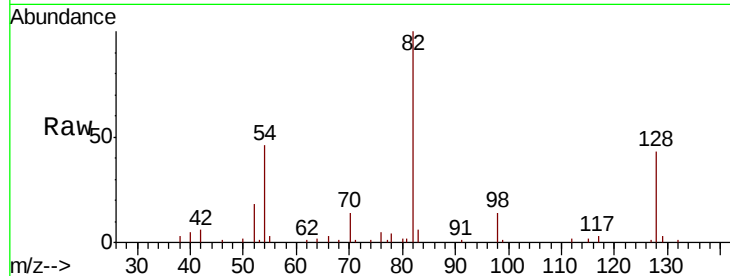
#23
Nitrobenzene-d5
Concen: 14.484 ng
RT: 7.42 min Scan# 907
Delta R.T. -0.00 min
Lab File: BF118418.D
Acq: 31 Dec 2019 21:16

Instrument :
BNA_F
ClientSampleId :
GP-11-(5-6)

Tot Ion	Ratio	Lower	Upper
82	100		
128	43.5	39.6	59.4
54	46.0	34.9	52.3

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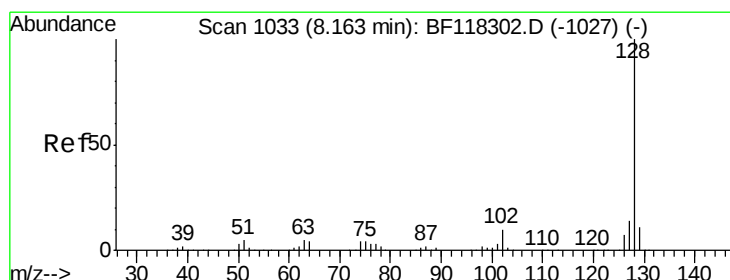
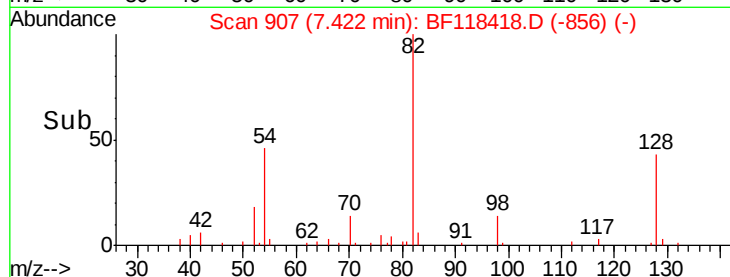
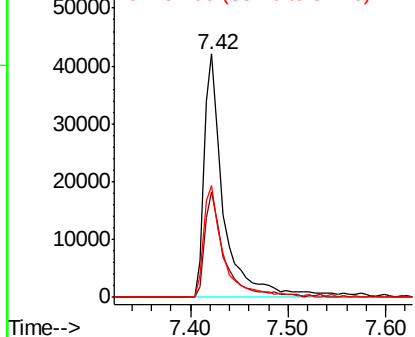


Abundance

Ion 82.00 (81.70 to 82.70): BF1

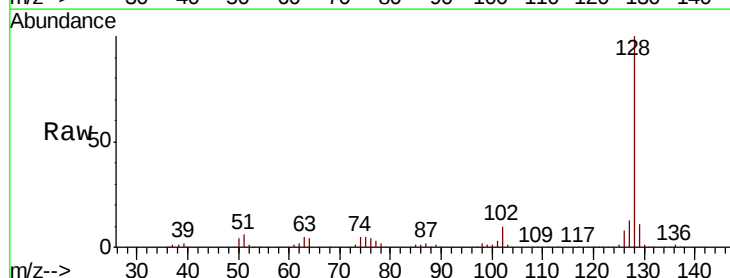
Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1



#31
Naphthalene
Concen: 51.800 ng
RT: 8.16 min Scan# 1033
Delta R.T. -0.00 min
Lab File: BF118418.D
Acq: 31 Dec 2019 21:16

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.0	9.0	13.4
127	13.4	11.0	16.4

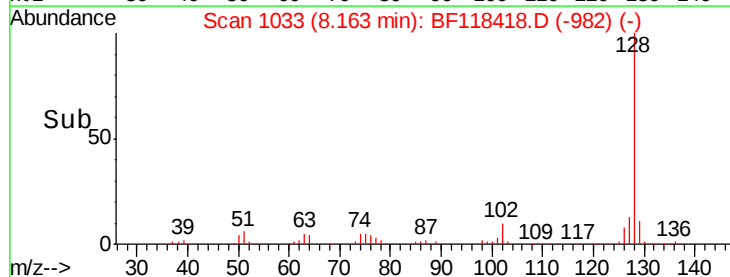
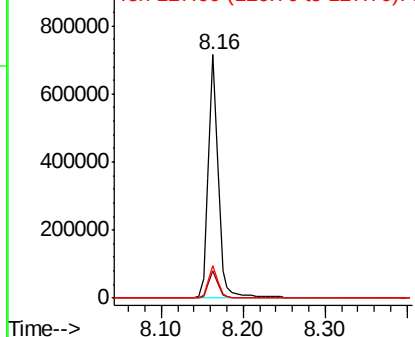


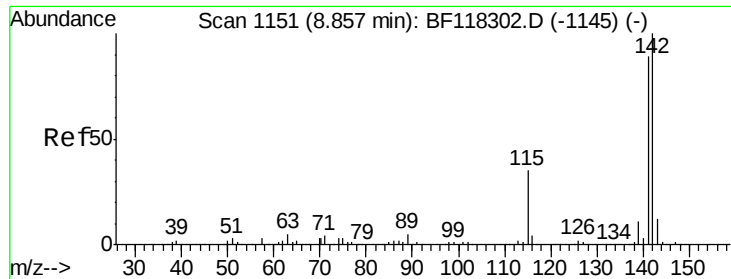
Abundance

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





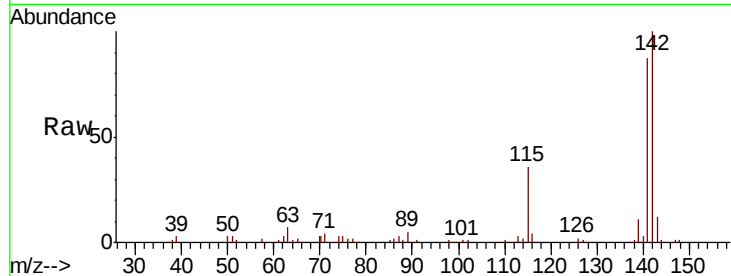
#37
2-Methylnaphthalene
Concen: 14.827 ng
RT: 8.86 min Scan# 1151
Delta R.T. -0.00 min
Lab File: BF118418.D
Acq: 31 Dec 2019 21:16

Instrument :
BNA_F
ClientSampleId :
GP-11-(5-6)

Tot Ion	Ratio	Lower	Upper
142	100		
141	86.7	71.2	106.8
115	35.6	28.0	42.0

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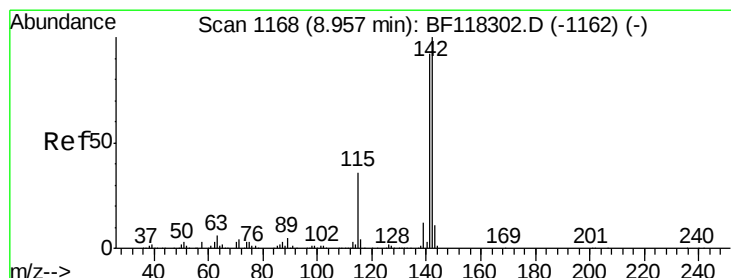
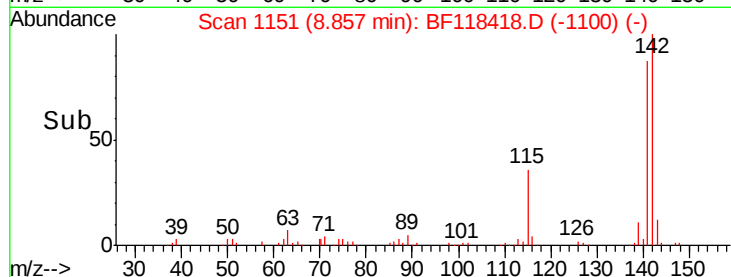
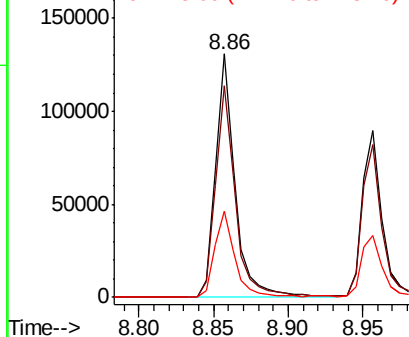


Abundance

Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#38
1-Methylnaphthalene
Concen: 11.233 ng
RT: 8.96 min Scan# 1168
Delta R.T. -0.00 min
Lab File: BF118418.D
Acq: 31 Dec 2019 21:16

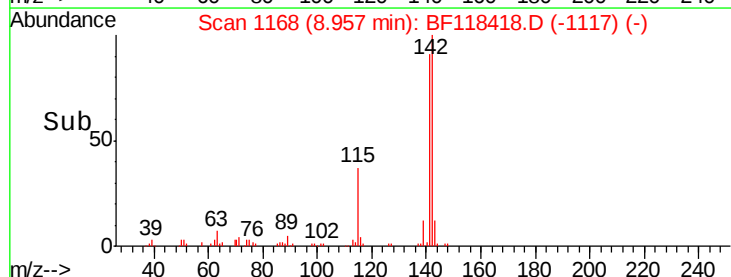
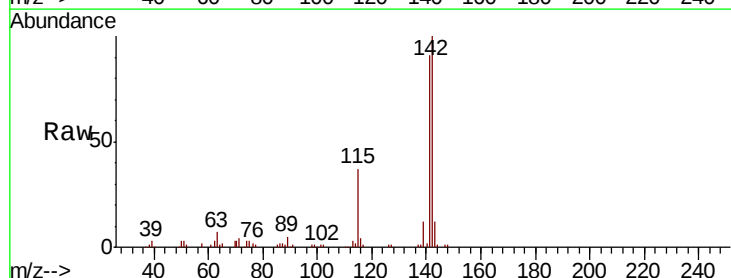
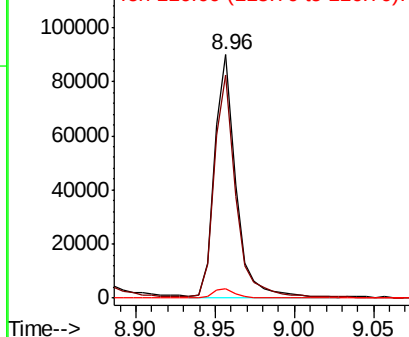
Tgt Ion	Ratio	Lower	Upper
142	100		
141	91.5	73.4	110.2
116	4.1	2.9	4.3

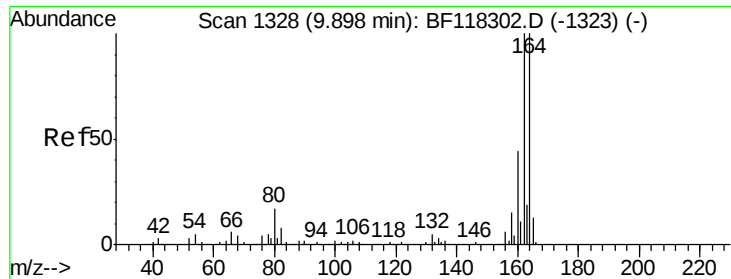
Abundance

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





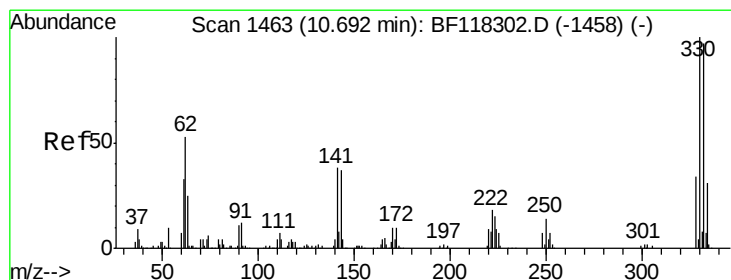
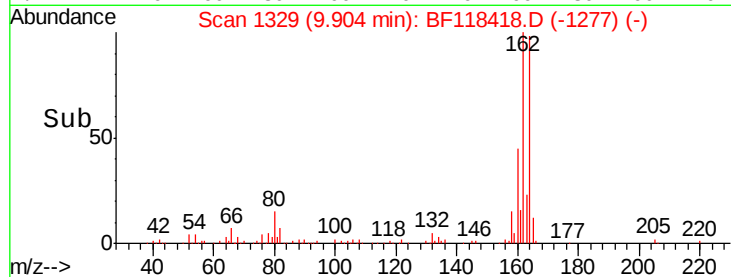
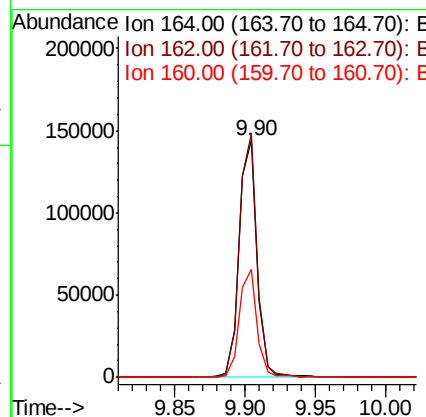
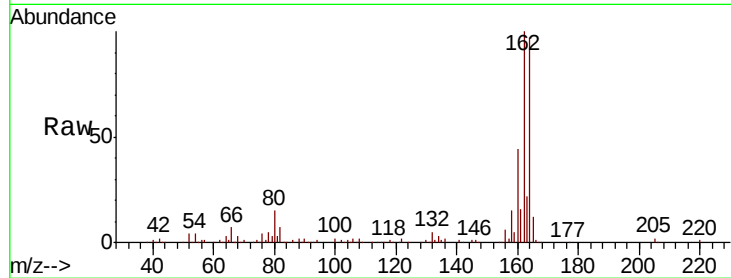
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.90 min Scan# 1329
Delta R.T. 0.01 min
Lab File: BF118418.D
Acq: 31 Dec 2019 21:16

Instrument :
BNA_F
ClientSampleId :
GP-11-(5-6)

Tot Ion	Ratio	Resp	Lower	Upper
164	100			
162	102.7	80.0	120.0	
160	45.7	34.8	52.2	

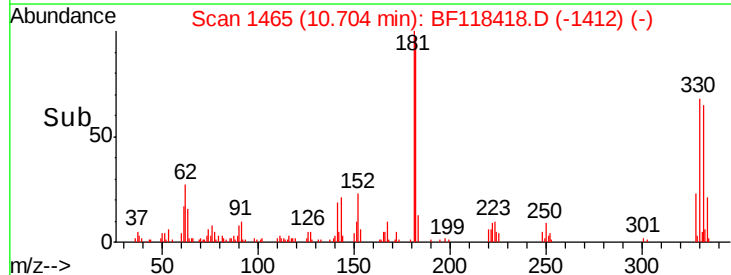
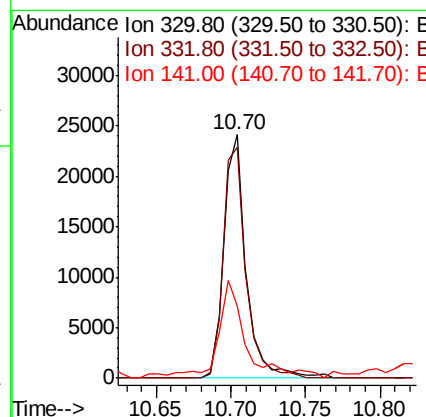
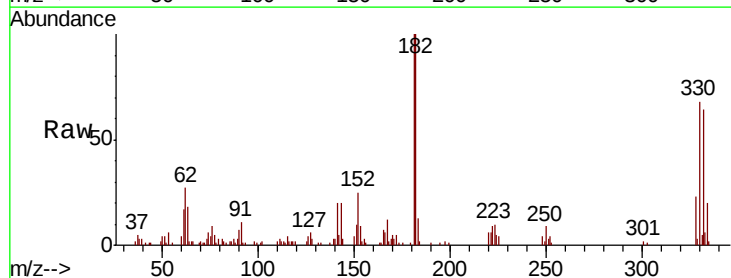
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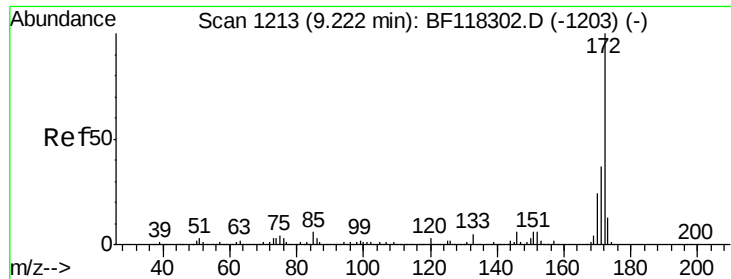
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#42
2,4,6-Tribromophenol
Concen: 16.327 ng
RT: 10.70 min Scan# 1465
Delta R.T. 0.01 min
Lab File: BF118418.D
Acq: 31 Dec 2019 21:16

Tgt Ion	Ratio	Resp	Lower	Upper
330	100			
332	96.0	76.6	114.8	
141	51.1	26.0	39.0	





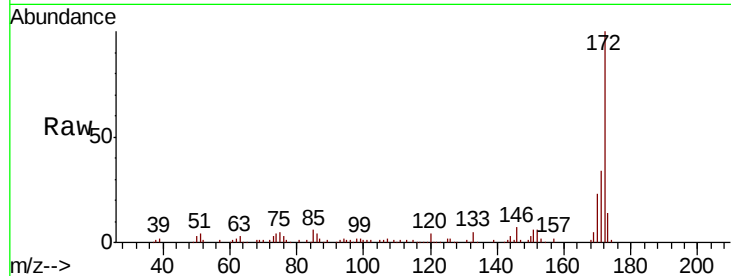
#45
2-Fluorobiphenyl
Concen: 14.116 ng
RT: 9.22 min Scan# 1212
Delta R.T. -0.01 min
Lab File: BF118418.D
Acq: 31 Dec 2019 21:16

Instrument :
BNA_F
ClientSampleId :
GP-11-(5-6)

Tot Ion	Ratio	Lower	Upper
172	100		
171	34.3	29.3	43.9
170	22.9	19.2	28.8

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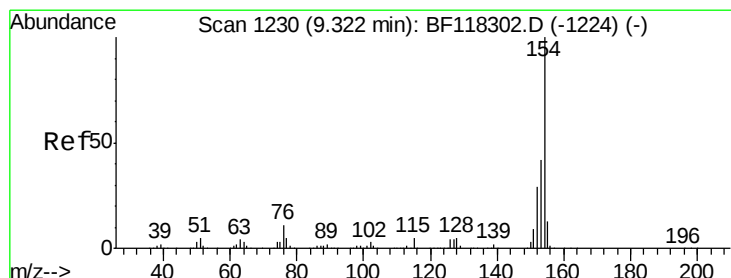
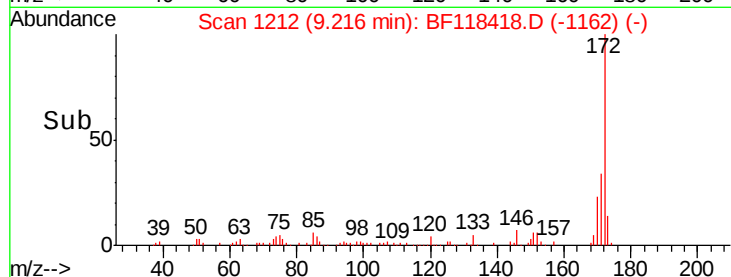
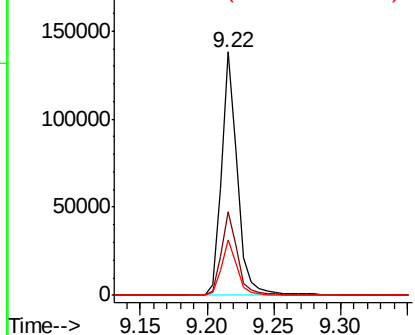


Abundance

Ion 172.00 (171.70 to 172.70): E

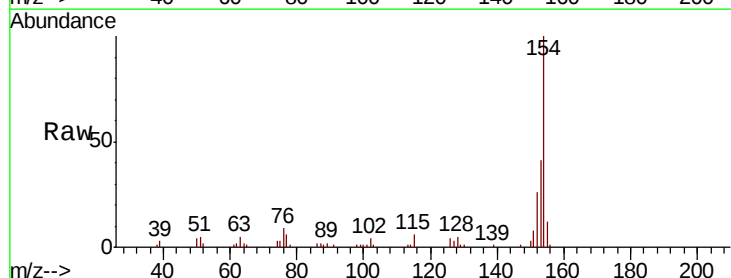
Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#46
1,1'-Biphenyl
Concen: 5.179 ng
RT: 9.32 min Scan# 1230
Delta R.T. -0.00 min
Lab File: BF118418.D
Acq: 31 Dec 2019 21:16

Tgt Ion	Ratio	Lower	Upper
154	100		
153	40.7	21.8	61.8
76	8.7	0.0	30.9

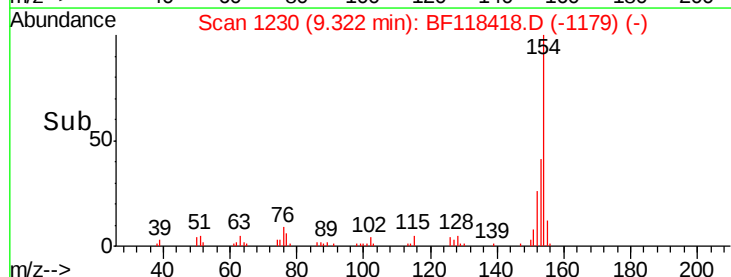
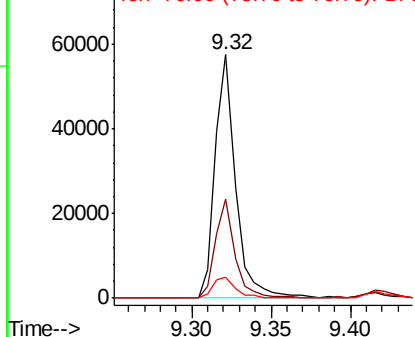


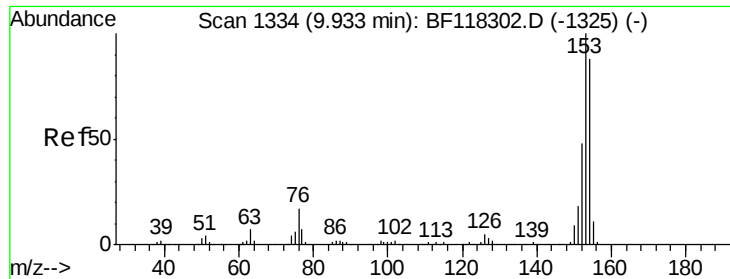
Abundance

Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 76.00 (75.70 to 76.70): BF1





#52

Acenaphthene

Concen: 29.677 ng

RT: 9.93 min Scan# 1334

Delta R.T. -0.00 min

Lab File: BF118418.D

Acq: 31 Dec 2019 21:16

Instrument :

BNA_F

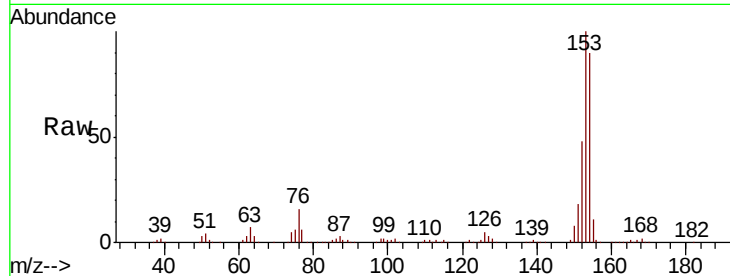
ClientSampleId :

GP-11-(5-6)

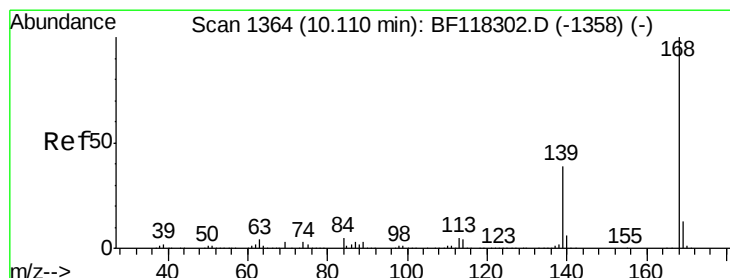
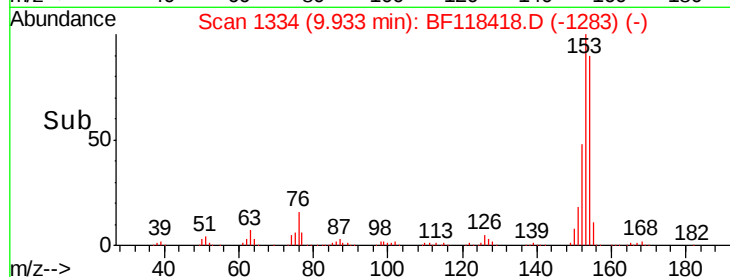
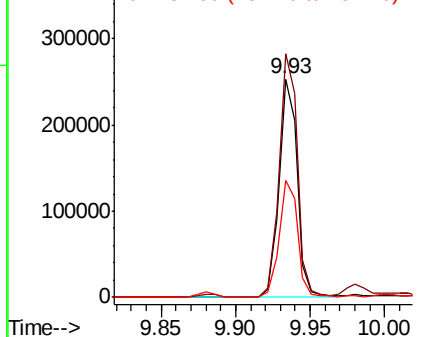
Tot Ion:	154	Resp:	215985
Ion Ratio	Lower	Upper	
154	100		
153	111.5	90.6	136.0
152	53.5	43.1	64.7

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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: 23.406 ng

RT: 10.11 min Scan# 1364

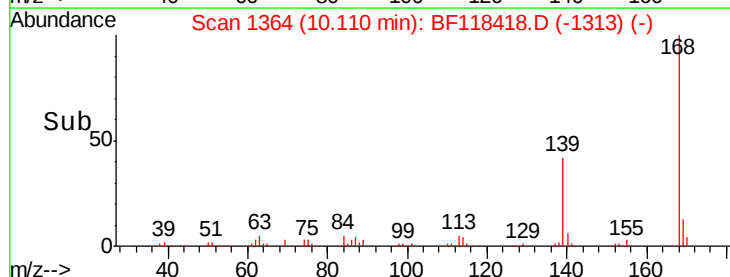
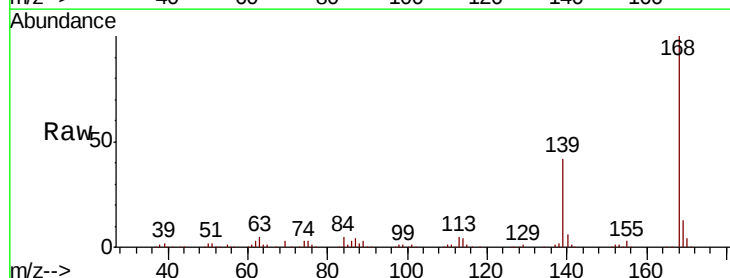
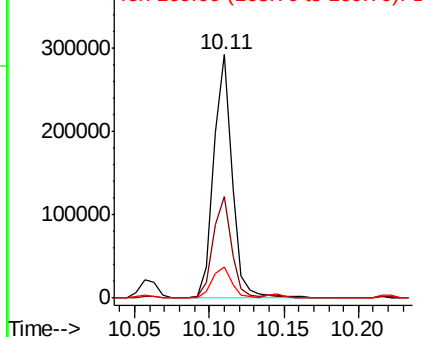
Delta R.T. -0.00 min

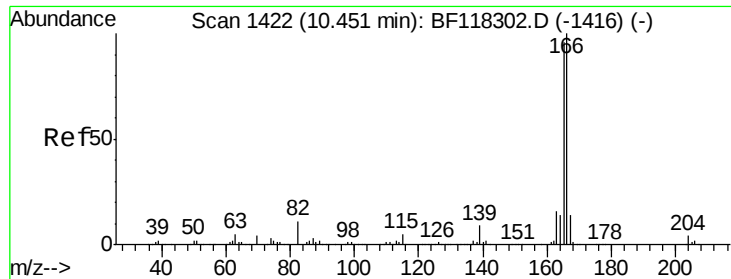
Lab File: BF118418.D

Acq: 31 Dec 2019 21:16

Tgt Ion:	168	Resp:	251696
Ion Ratio	Lower	Upper	
168	100		
139	41.5	31.5	47.3
169	12.9	10.4	15.6

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





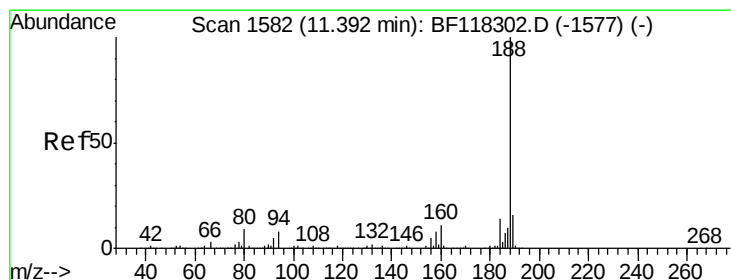
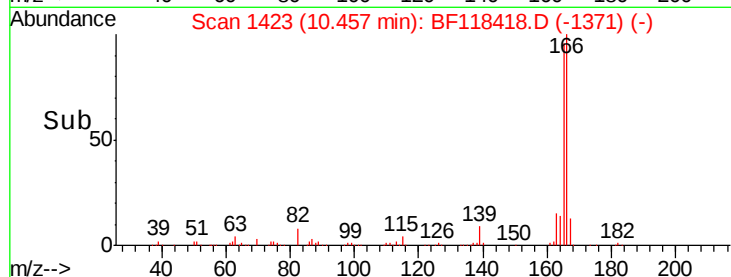
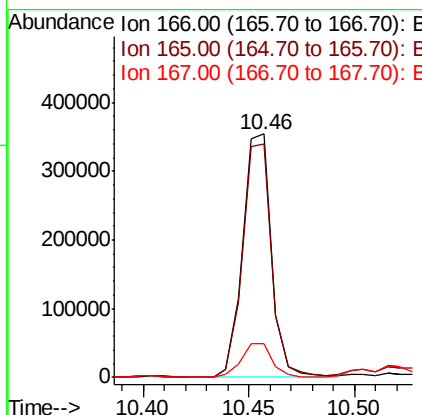
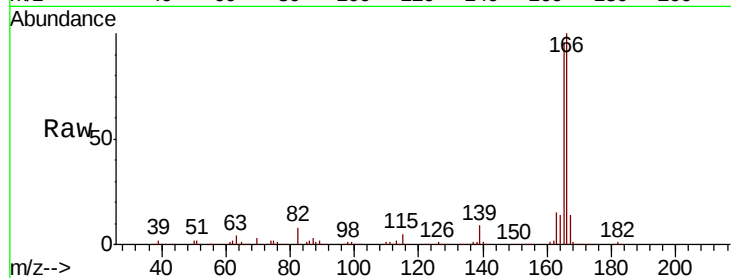
#58
 Fluorene
 Concen: 38.214 ng
 RT: 10.46 min Scan# 1423
 Delta R.T. 0.01 min
 Lab File: BF118418.D
 Acq: 31 Dec 2019 21:16

Instrument :
 BNA_F
 ClientSampleId :
 GP-11-(5-6)

Tot Ion	Ratio	Lower	Upper
166	100		
165	96.1	77.0	115.4
167	13.7	10.9	16.3

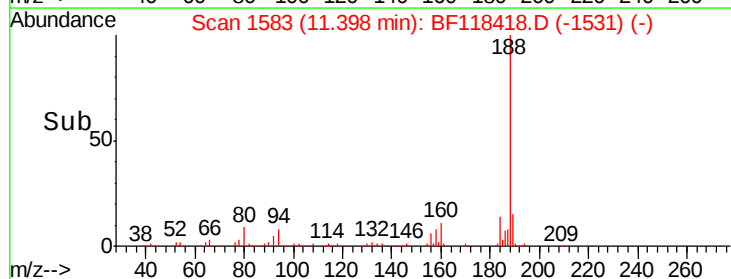
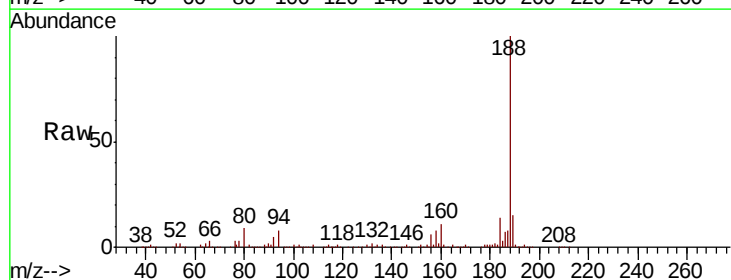
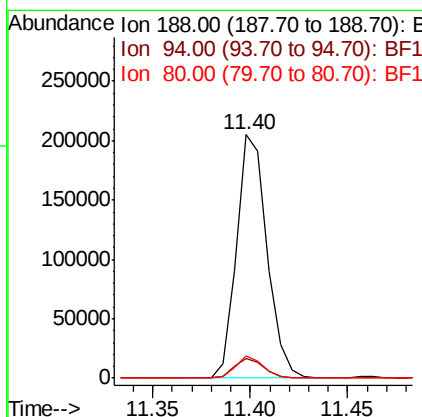
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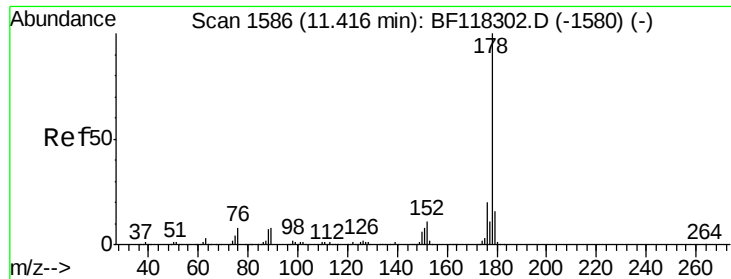
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#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.40 min Scan# 1583
 Delta R.T. 0.01 min
 Lab File: BF118418.D
 Acq: 31 Dec 2019 21:16

Tgt Ion	Ratio	Lower	Upper
188	100		
94	8.3	6.7	10.1
80	8.9	7.2	10.8





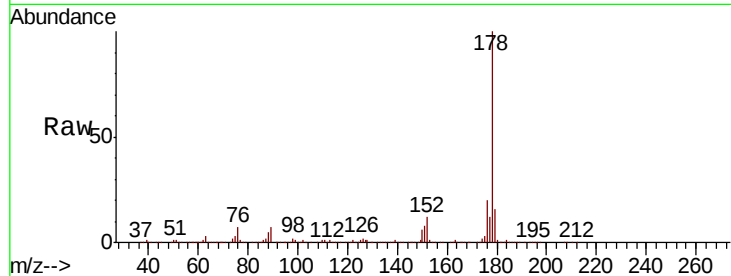
#71
Phenanthrene
Concen: 213.327 ng
RT: 11.44 min Scan# 1590
Delta R.T. 0.02 min
Lab File: BF118418.D
Acq: 31 Dec 2019 21:16

Instrument :
BNA_F
ClientSampleId :
GP-11-(5-6)

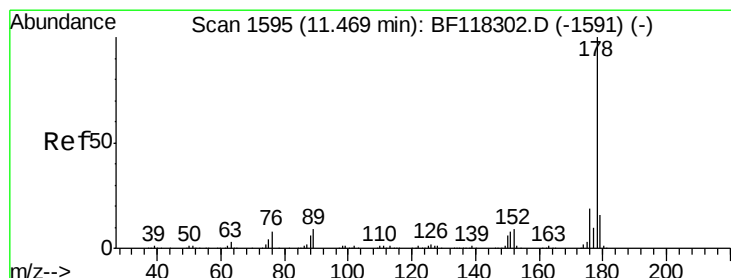
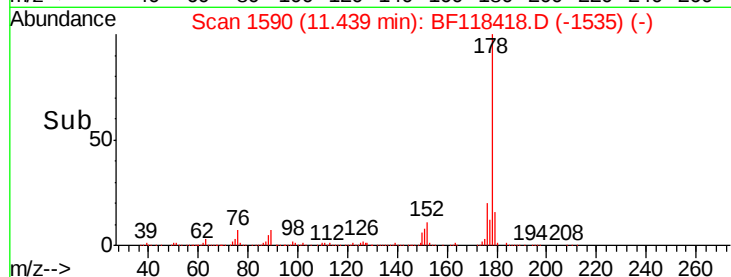
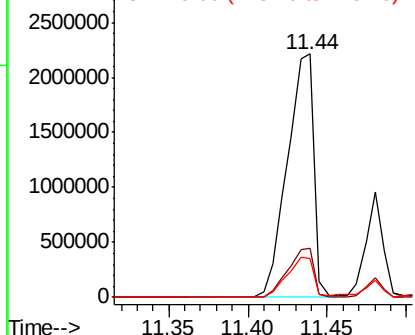
Tot Ion:178 Resp: 2572801
Ion Ratio Lower Upper
178 100
176 20.0 15.6 23.4
179 16.0 12.6 19.0

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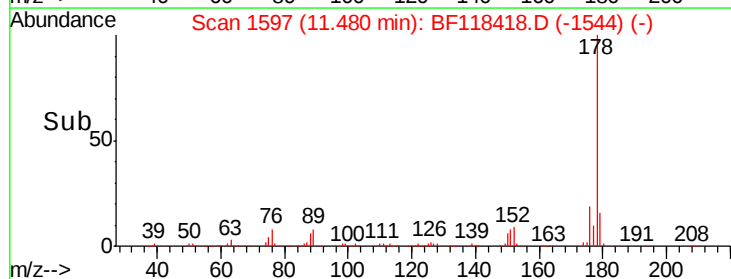
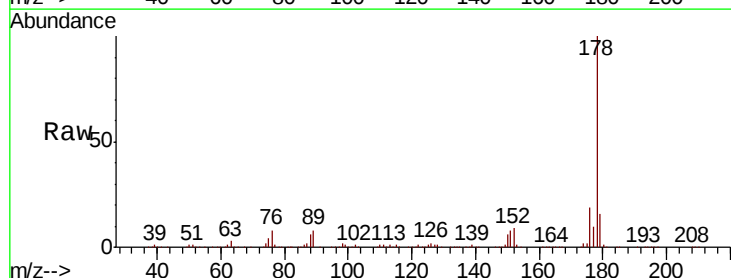
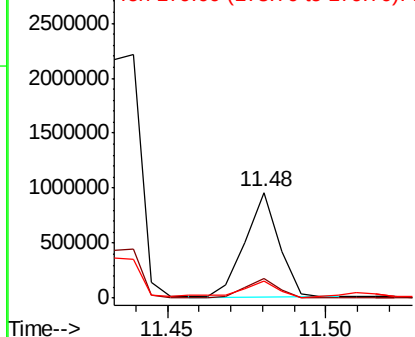
Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

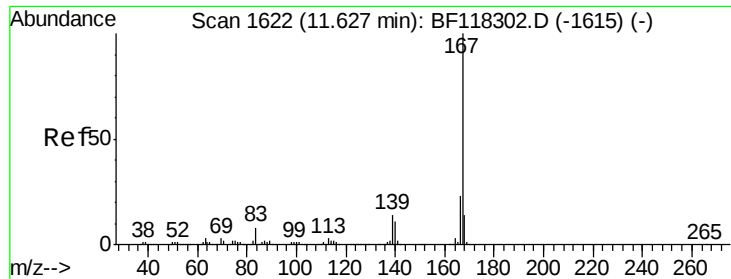


#72
Anthracene
Concen: 58.272 ng
RT: 11.48 min Scan# 1597
Delta R.T. 0.01 min
Lab File: BF118418.D
Acq: 31 Dec 2019 21:16

Tgt Ion:178 Resp: 703445
Ion Ratio Lower Upper
178 100
176 18.7 15.2 22.8
179 15.6 12.9 19.3

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





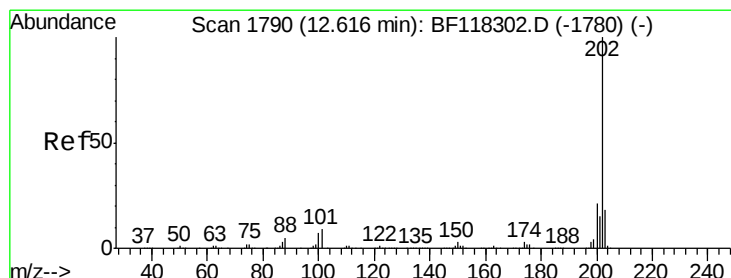
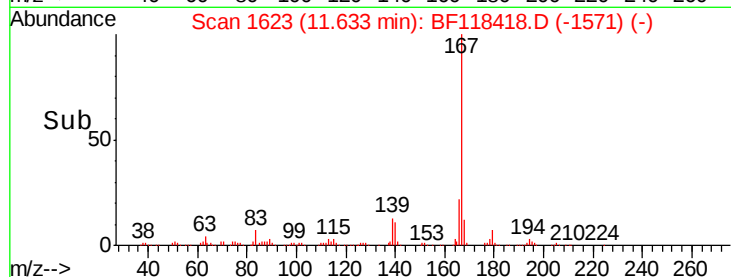
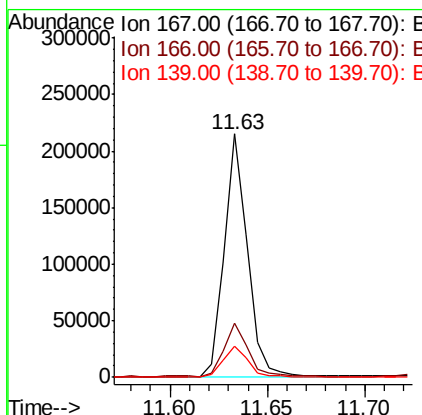
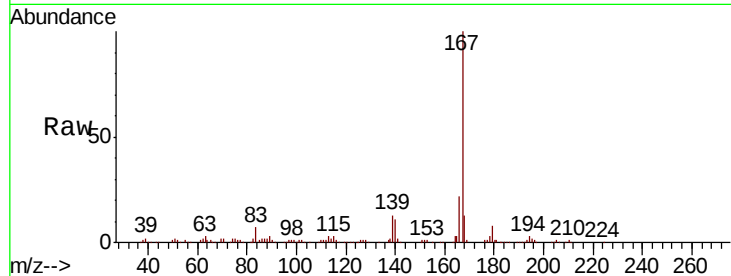
#73
 Carbazole
 Concen: 16.410 ng
 RT: 11.63 min Scan# 1623
 Delta R.T. 0.01 min
 Lab File: BF118418.D
 Acq: 31 Dec 2019 21:16

Instrument :
 BNA_F
 ClientSampleId :
 GP-11-(5-6)

Tot Ion	Ratio	Lower	Upper
167	100		
166	22.4	18.1	27.1
139	13.1	11.5	17.3

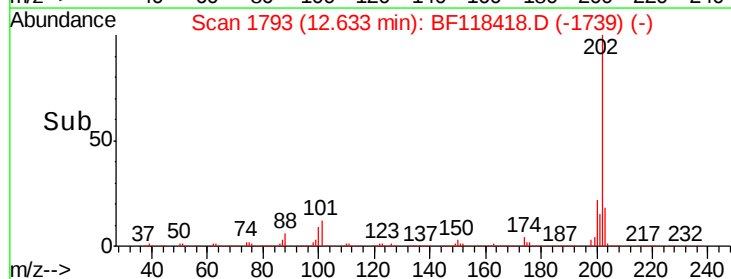
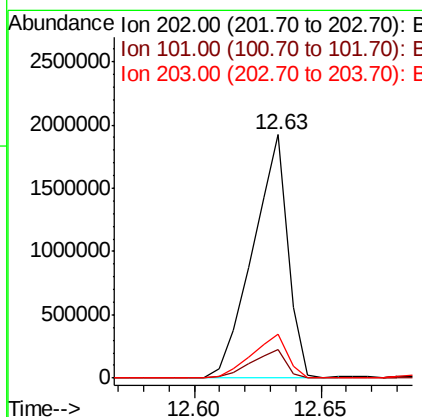
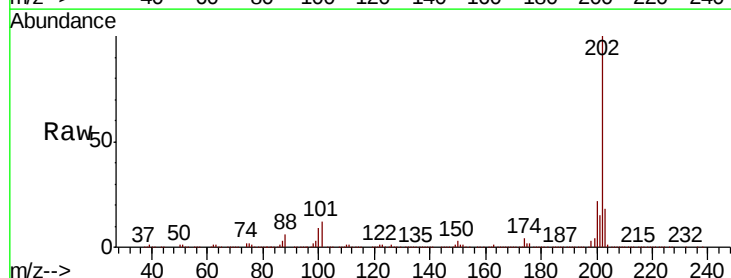
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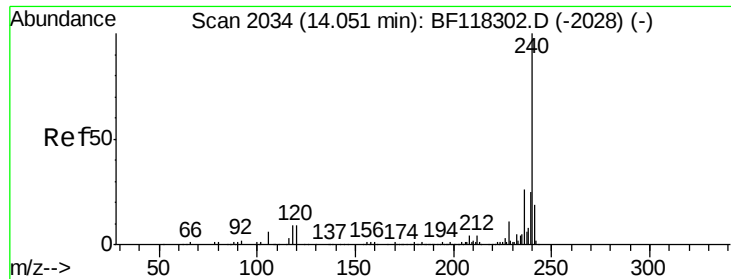
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#75
 Fluoranthene
 Concen: 153.159 ng
 RT: 12.63 min Scan# 1793
 Delta R.T. 0.02 min
 Lab File: BF118418.D
 Acq: 31 Dec 2019 21:16

Tgt Ion	Ratio	Lower	Upper
202	100		
101	11.5	0.0	29.5
203	18.1	0.0	37.6





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.06 min Scan# 2036

Delta R.T. 0.01 min

Lab File: BF118418.D

Acq: 31 Dec 2019 21:16

Instrument :

BNA_F

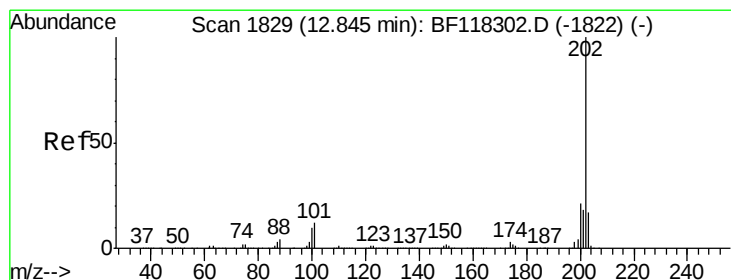
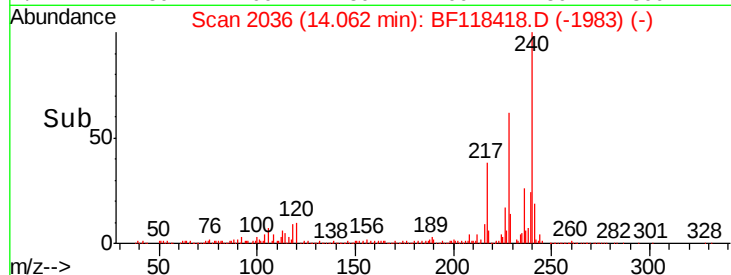
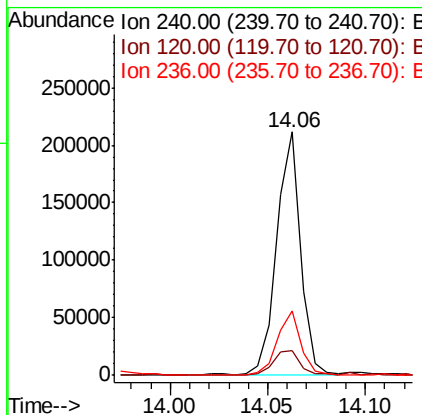
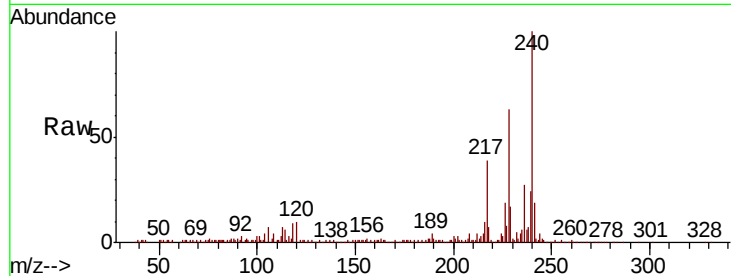
ClientSampled :

GP-11-(5-6)

Tot Ion:	240	Resp:	178525
Ion Ratio	Lower	Upper	
240	100		
120	10.2	7.1	10.7
236	26.6	21.0	31.6

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#78

Pyrene

Concen: 128.766 ng

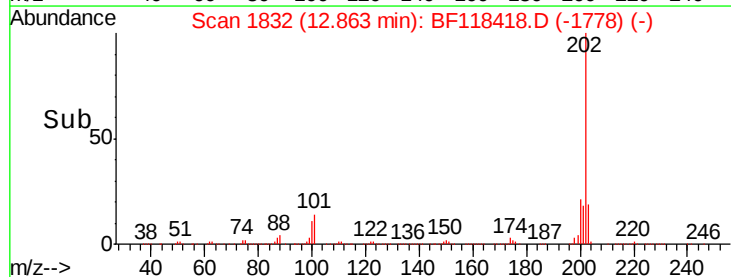
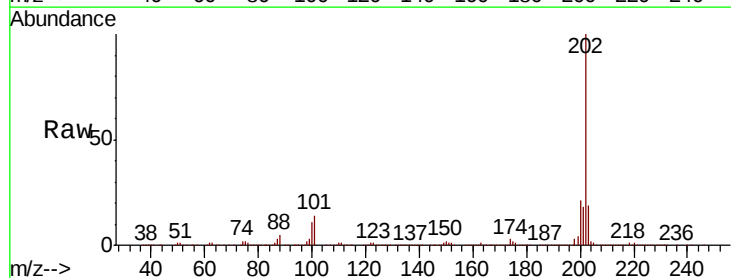
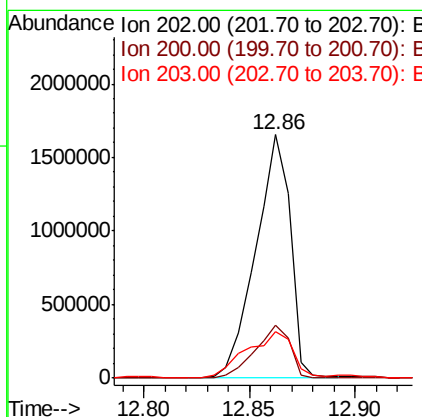
RT: 12.86 min Scan# 1832

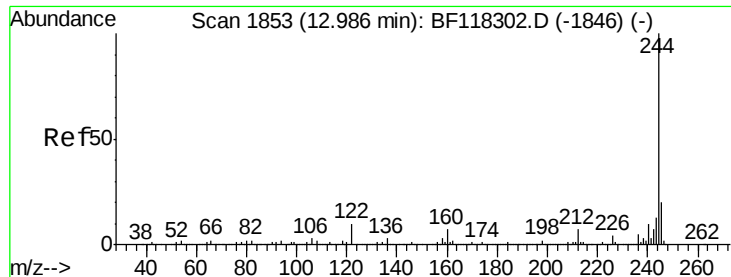
Delta R.T. 0.02 min

Lab File: BF118418.D

Acq: 31 Dec 2019 21:16

Tgt Ion:	202	Resp:	1877212
Ion Ratio	Lower	Upper	
202	100		
200	21.5	16.8	25.2
203	19.1	13.9	20.9





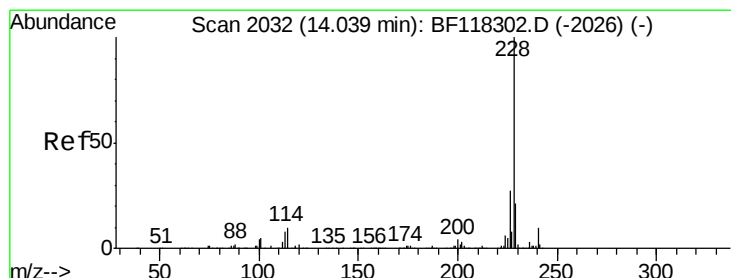
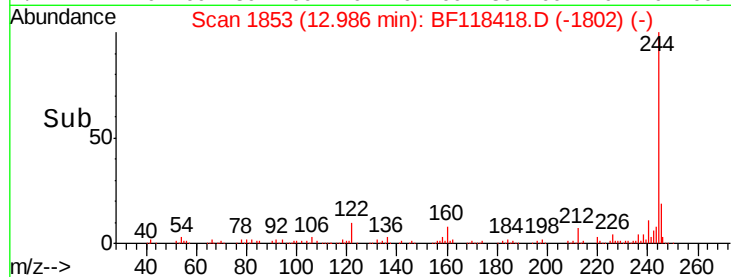
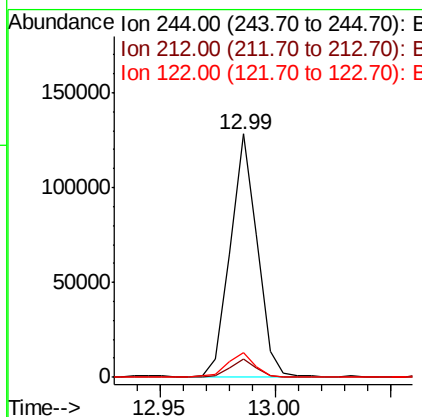
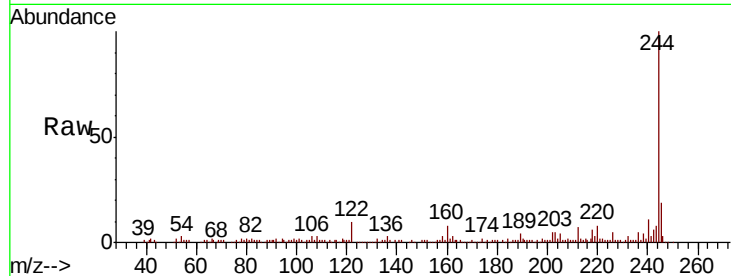
#79
 Terphenyl-d14
 Concen: 9.780 ng
 RT: 12.99 min Scan# 1853
 Delta R.T. -0.00 min
 Lab File: BF118418.D
 Acq: 31 Dec 2019 21:16

Instrument :
 BNA_F
 ClientSampleId :
 GP-11-(5-6)

Tot Ion	Ratio	Lower	Upper
244	100		
212	7.3	5.4	8.2
122	10.0	7.8	11.8

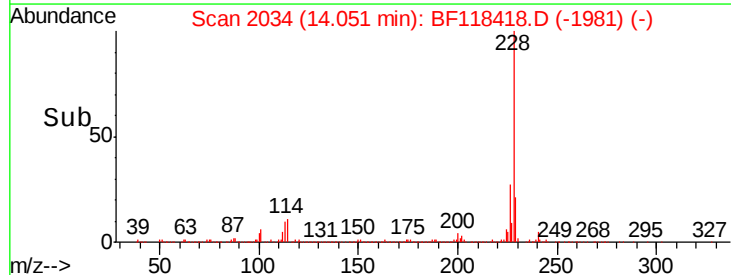
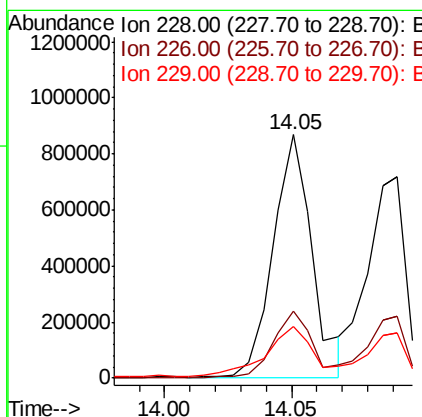
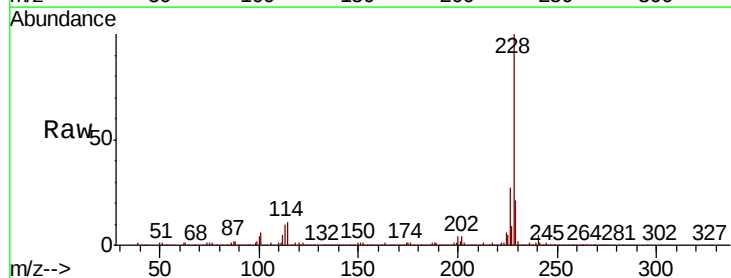
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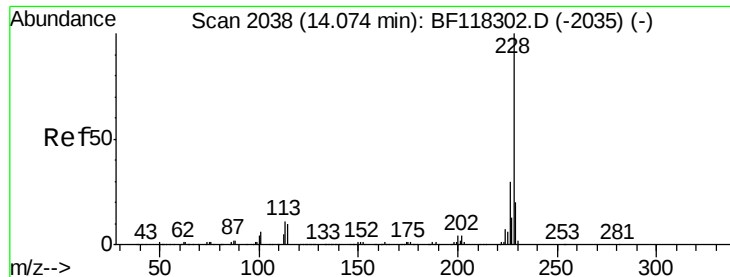
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#81
 Benzo(a)anthracene
 Concen: 74.627 ng
 RT: 14.05 min Scan# 2034
 Delta R.T. 0.01 min
 Lab File: BF118418.D
 Acq: 31 Dec 2019 21:16

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.3	22.0	33.0
229	21.3	16.6	24.8





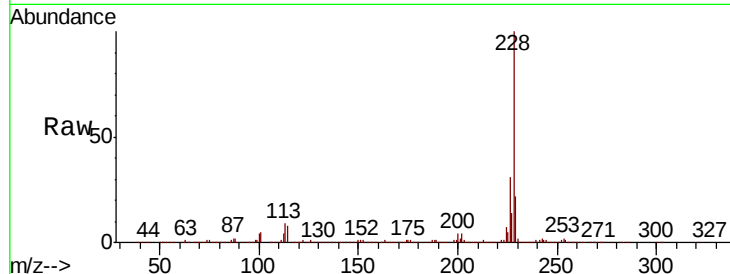
#83
Chrysene
Concen: 62.661 ng
RT: 14.09 min Scan# 2041
Delta R.T. 0.02 min
Lab File: BF118418.D
Acq: 31 Dec 2019 21:16

Instrument :
BNA_F
ClientSampled :
GP-11-(5-6)

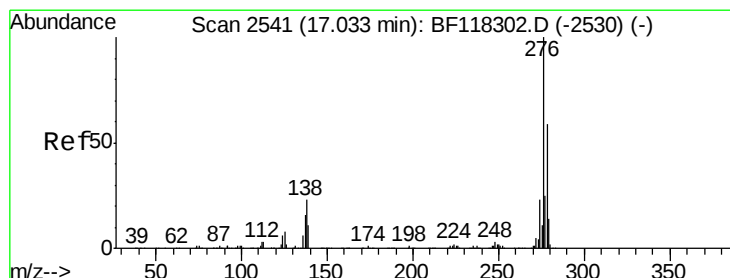
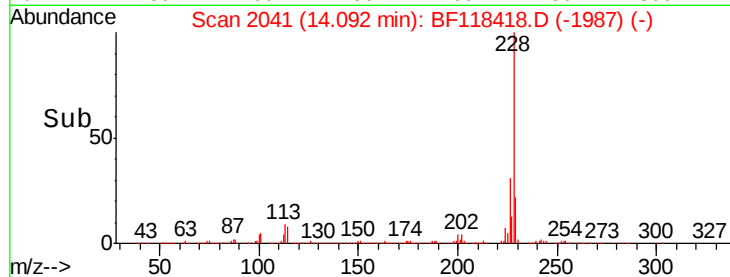
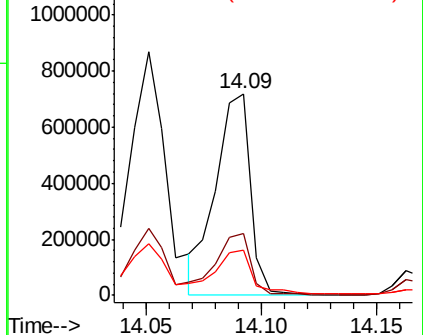
Tot Ion	Ratio	Lower	Upper
228	100		
226	30.9	23.9	35.9
229	22.2	16.1	24.1

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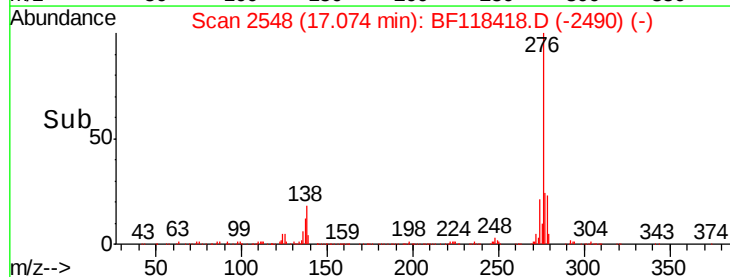
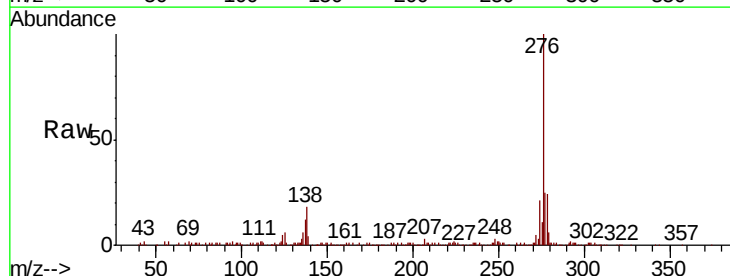
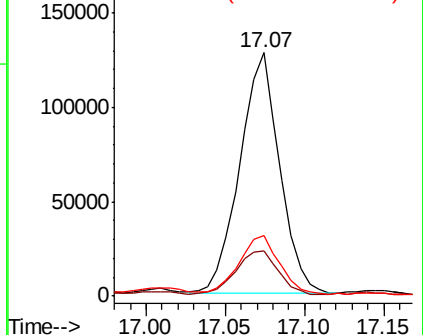
Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E

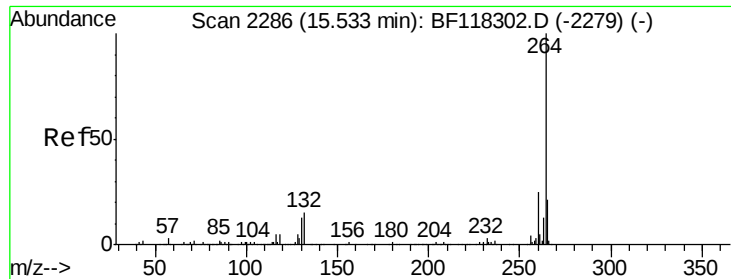


#86
Indeno(1,2,3-cd)pyrene
Concen: 21.720 ng
RT: 17.07 min Scan# 2548
Delta R.T. 0.04 min
Lab File: BF118418.D
Acq: 31 Dec 2019 21:16

Tgt Ion	Ratio	Lower	Upper
276	100		
138	19.2	19.5	29.3#
277	25.4	20.6	30.8

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





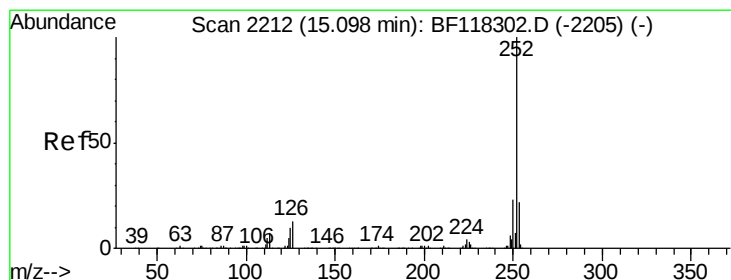
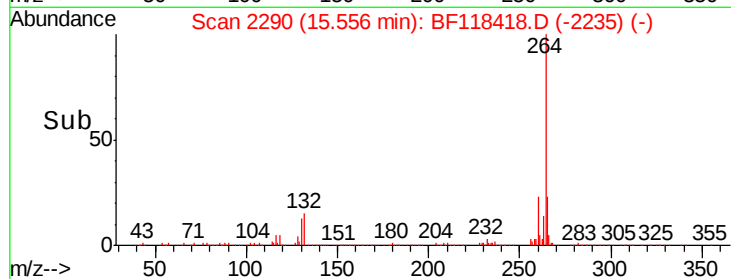
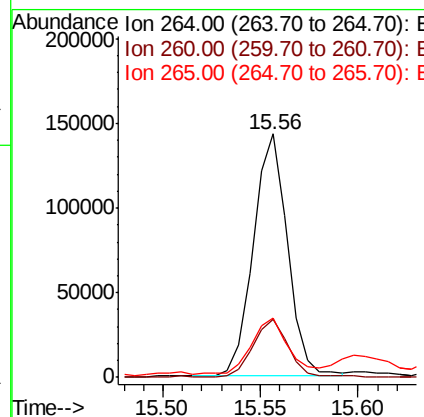
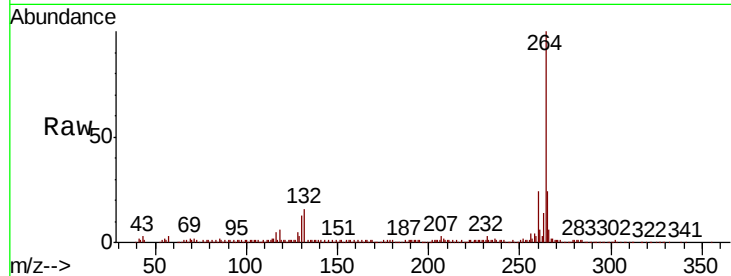
#87
Pervlene-d12
Concen: 20.000 ng
RT: 15.56 min Scan# 2290
Delta R.T. 0.02 min
Lab File: BF118418.D
Acq: 31 Dec 2019 21:16

Instrument :
BNA_F
ClientSampleId :
GP-11-(5-6)

Tot Ion	Ratio	Lower	Upper
264	100		
260	23.8	19.8	29.6
265	24.2	17.0	25.4

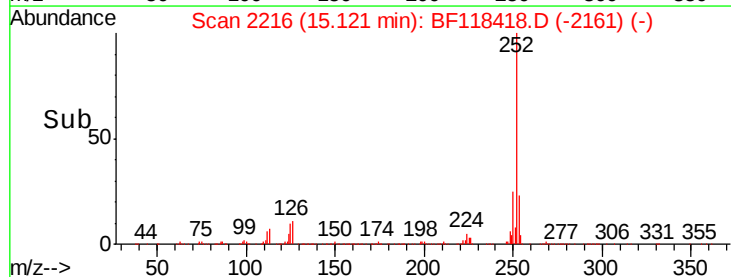
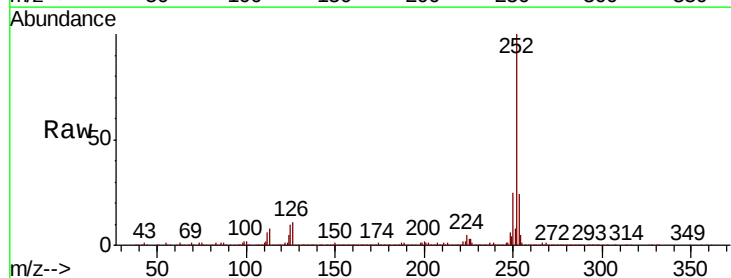
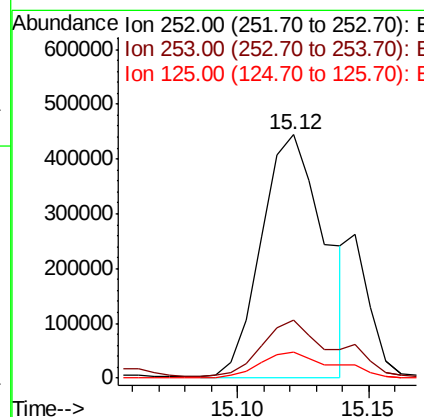
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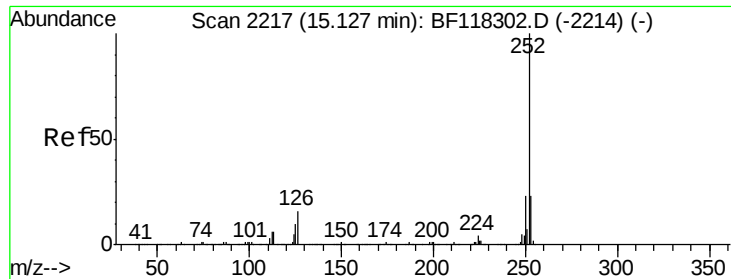
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#88
Benzo(b)fluoranthene
Concen: 64.111 ng m
RT: 15.12 min Scan# 2216
Delta R.T. 0.02 min
Lab File: BF118418.D
Acq: 31 Dec 2019 21:16

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.8	17.5	26.3
125	10.5	7.7	11.5





#89

Benzo(k)fluoranthene

Concen: 14.022 ng

RT: 15.14 min Scan# 2220

Delta R.T. 0.02 min

Lab File: BF118418.D

Acq: 31 Dec 2019 21:16

Instrument :

BNA_F

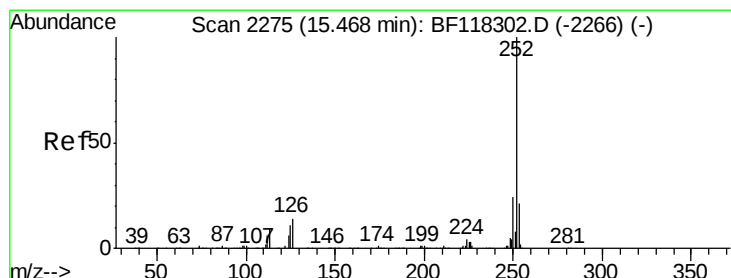
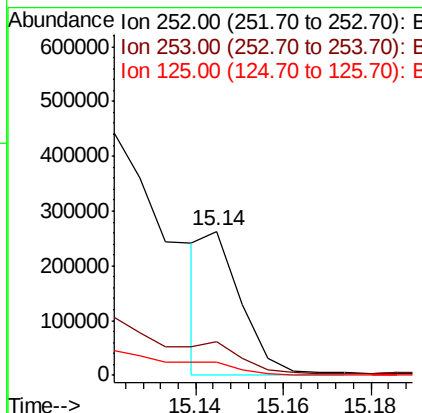
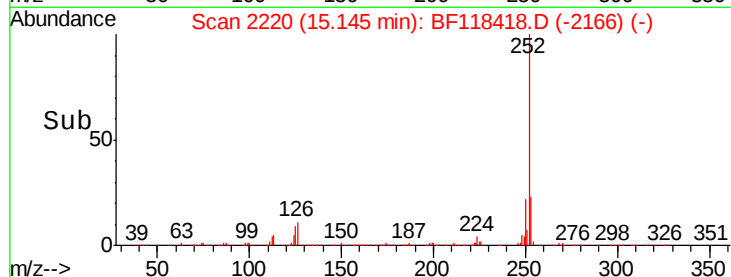
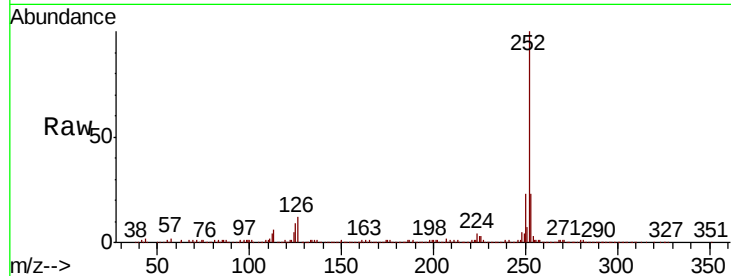
ClientSampleId :

GP-11-(5-6)

Tot Ion:	252	Resp:	155268
Ion Ratio	Lower	Upper	
252	100		
253	23.2	18.0	27.0
125	9.4	8.0	12.0

Manual Integrations
APPROVED

mohammad
1/2/2020 11:50:19 AM



#90

Benzo(a)pyrene

Concen: 55.270 ng

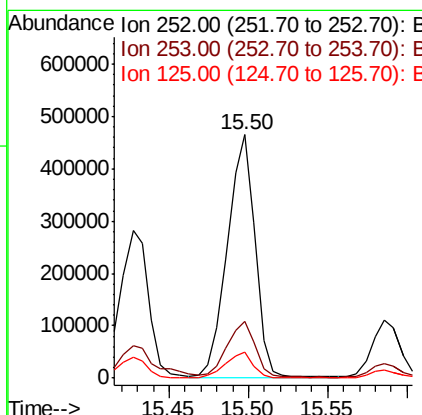
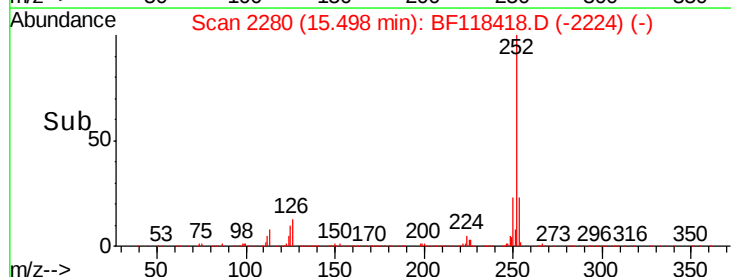
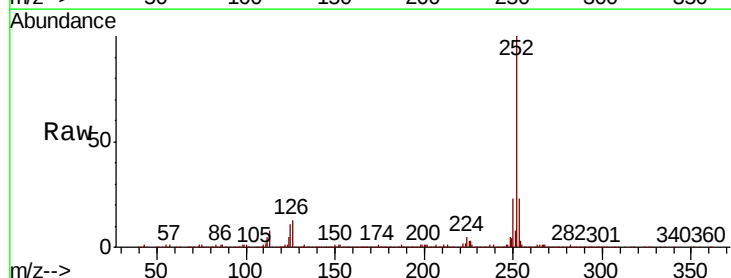
RT: 15.50 min Scan# 2280

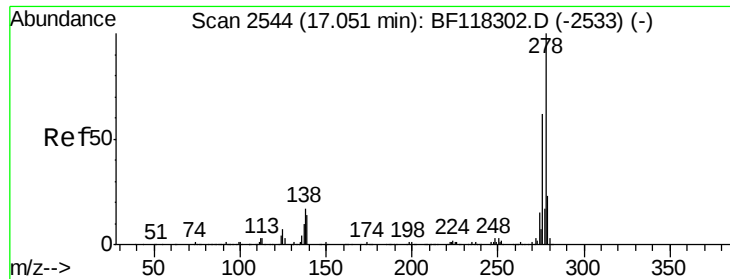
Delta R.T. 0.03 min

Lab File: BF118418.D

Acq: 31 Dec 2019 21:16

Tgt Ion:	252	Resp:	561490
Ion Ratio	Lower	Upper	
252	100		
253	23.2	17.0	25.6
125	10.7	9.0	13.4





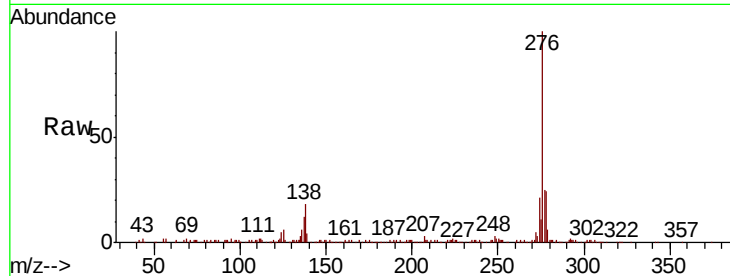
#91
Dibenzo(a,h)anthracene
Concen: 6.875 ng m
RT: 17.07 min Scan# 2548
Delta R.T. 0.02 min
Lab File: BF118418.D
Acq: 31 Dec 2019 21:16

Instrument :
BNA_F
ClientSampleId :
GP-11-(5-6)

Tot Ion	Ratio	Lower	Upper
278	100		
139	17.8	11.5	17.3#
279	26.9	18.3	27.5

Manual Integrations
APPROVED

mohammad
1/2/2020 11:50:19 AM

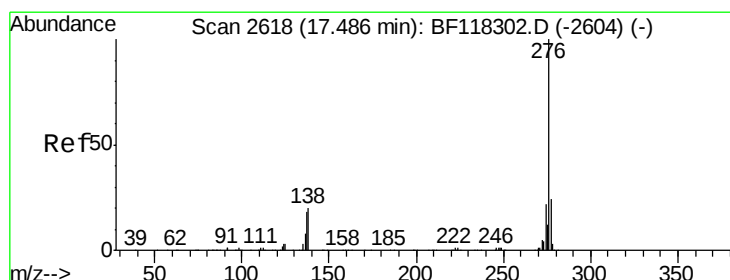
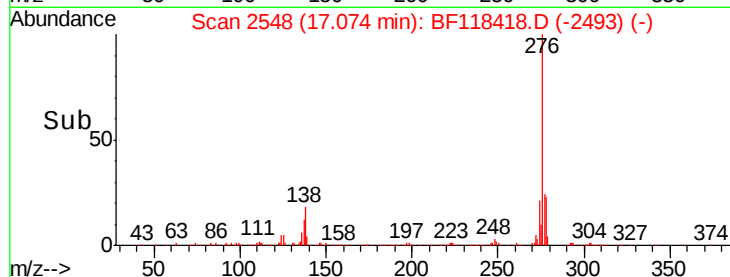
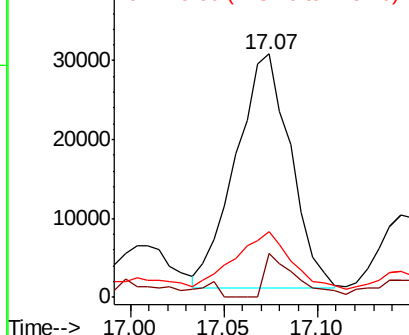


Abundance

Ion 278.00 (277.70 to 278.70): E

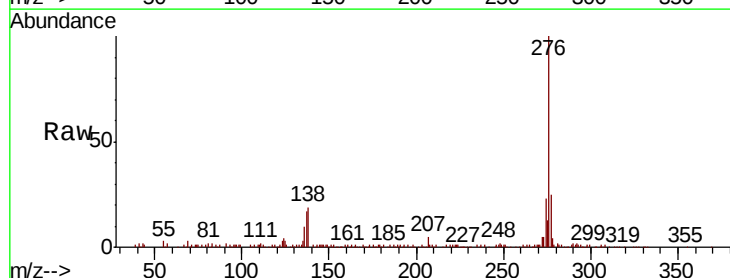
Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#92
Benzo(g,h,i)perylene
Concen: 24.871 ng
RT: 17.53 min Scan# 2626
Delta R.T. 0.05 min
Lab File: BF118418.D
Acq: 31 Dec 2019 21:16

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.7	19.1	28.7
138	19.4	16.1	24.1



Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

