

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF012120\
 Data File : BF118660.D
 Acq On : 22 Jan 2020 11:38
 Operator : CG/JU
 Sample : L1148-03DL 100X
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-12-(4-6)DL

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Quant Time: Jan 22 12:54:06 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF012020.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jan 20 14:45:03 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.87	152	341666	20.00	ng	0.00
21) Naphthalene-d8	8.16	136	1308404	20.00	ng	0.00
39) Acenaphthene-d10	9.92	164	690559	20.00	ng	-0.01
64) Phenanthrene-d10	11.40	188	1117646	20.00	ng	0.00
76) Chrysene-d12	14.04	240	686654	20.00	ng	0.00
87) Perylene-d12	15.51	264	896201	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.49	112	18588	1.01	ng	-0.01
7) Phenol-d6	6.49	99	26364	1.10	ng	-0.02
23) Nitrobenzene-d5	7.43	82	14212	0.61	ng	-0.02
42) 2,4,6-Tribromophenol	10.70	330	5557	0.70	ng	-0.01
45) 2-Fluorobiphenyl	9.23	172	33545	0.80	ng	-0.01
79) Terphenyl-d14	12.98	244	33156	1.05	ng	-0.01

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
31) Naphthalene	8.19	128	4807703	81.342	ng	96
37) 2-Methylnaphthalene	8.87	142	976623	23.409	ng	98
38) 1-Methylnaphthalene	8.97	142	592656	14.953	ng	100
46) 1,1'-Biphenyl	9.33	154	263456	5.536	ng	96
49) Acenaphthylene	9.77	152	423540	7.505	ng	96
52) Acenaphthene	9.95	154	486189	12.884	ng	99
55) Dibenzofuran	10.12	168	859283	16.431	ng	92
58) Fluorene	10.46	166	1134856	27.643	ng	99
71) Phenanthrene	11.43	178	3595948	66.690	ng	99
72) Anthracene	11.47	178	1184726	22.205	ng	94
73) Carbazole	11.62	167	356633	7.287	ng	95
75) Fluoranthene	12.62	202	2388743	42.003	ng	98
78) Pvrene	12.85	202	2052718	44.033	ng	94
81) Benzo(a)anthracene	14.03	228	950875m	23.020	ng	
83) Chrysene	14.06	228	777478	19.639	ng	95
86) Indeno(1,2,3-cd)pyrene	16.98	276	472938	13.749	ng	98
88) Benzo(b)fluoranthene	15.08	252	943830m	16.755	ng	
89) Benzo(k)fluoranthene	15.10	252	397420m	7.615	ng	
90) Benzo(a)pvrene	15.44	252	852035	17.534	ng	99
91) Dibenzo(a,h)anthracene	16.99	278	132614	3.085	ng	98
92) Benzo(g,h,i)perylene	17.43	276	428861	10.276	ng	98

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

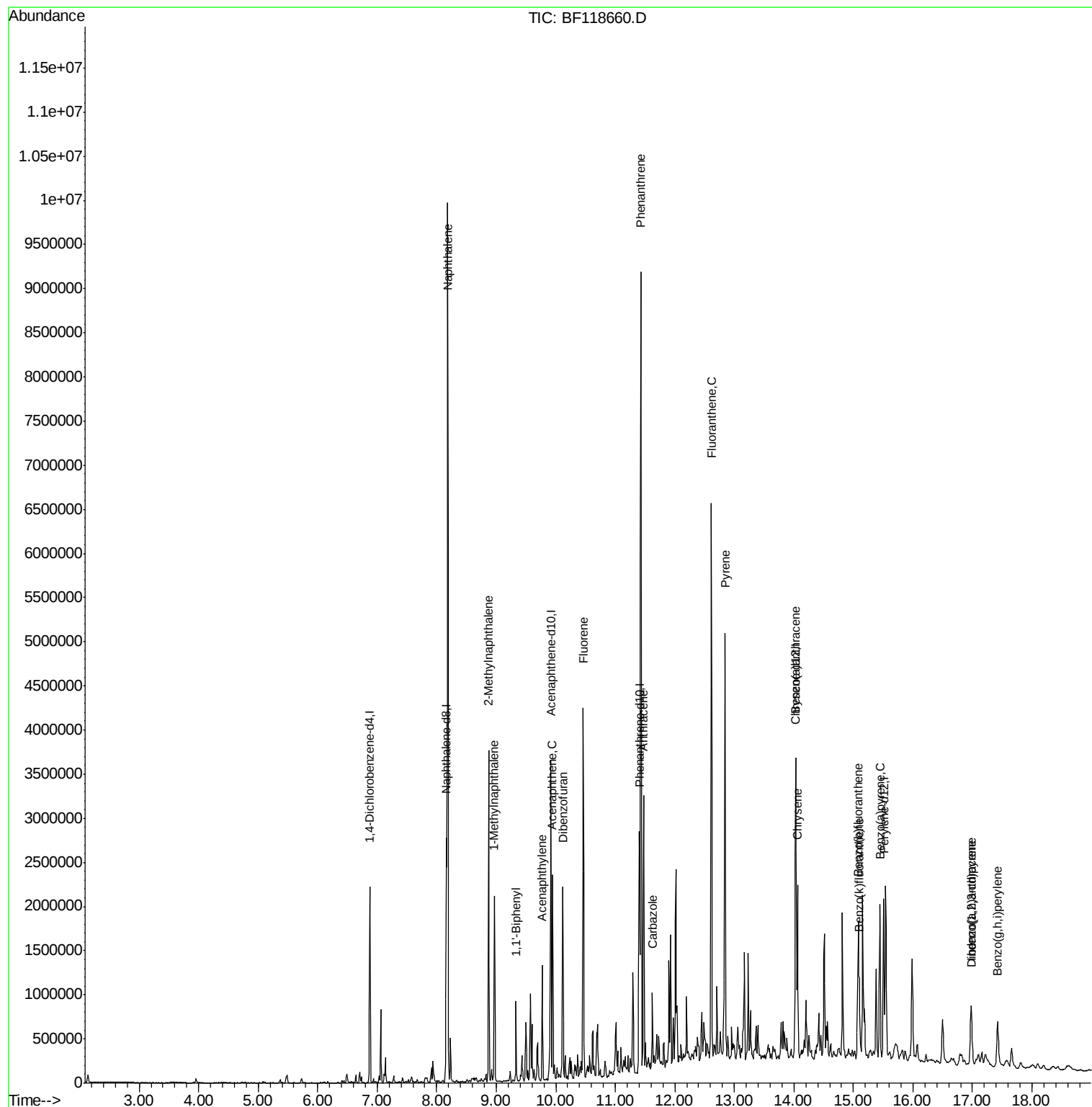
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF012120\
Data File : BF118660.D
Acq On : 22 Jan 2020 11:38
Operator : CG/JU
Sample : L1148-03DL 100X
Misc :
ALS Vial : 5 Sample Multiplier: 1

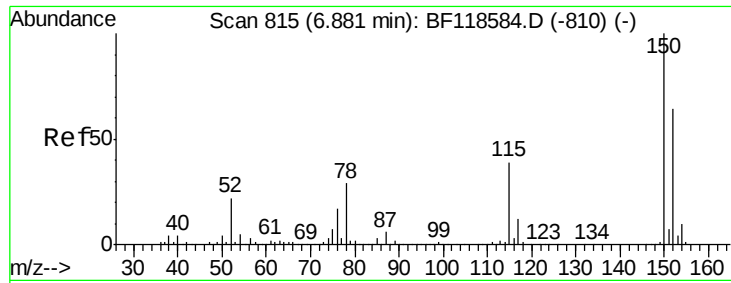
Instrument :
BNA_F
ClientSampleId :
SB-12-(4-6)DL

Quant Time: Jan 22 12:54:06 2020
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF012020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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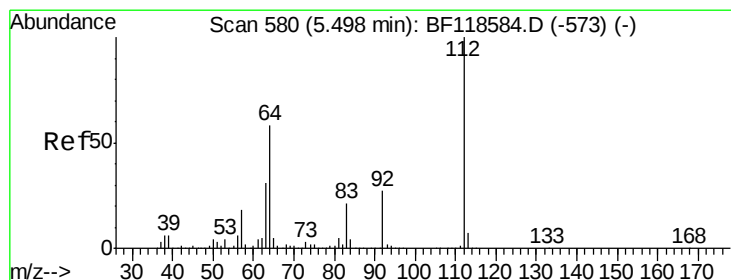
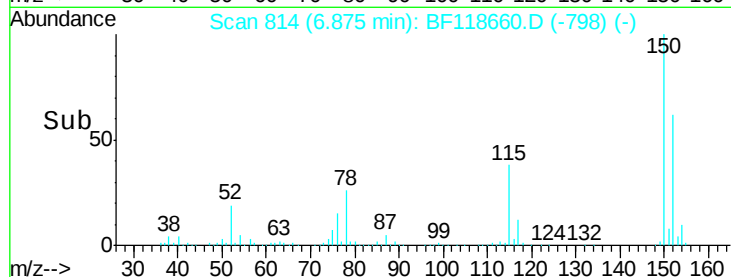
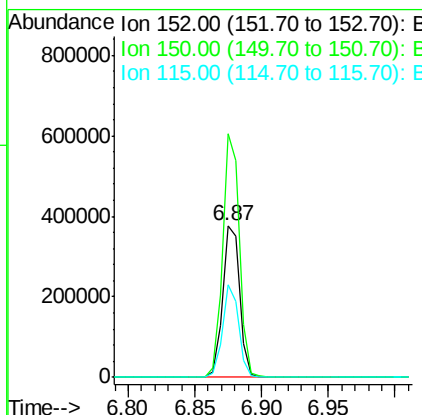
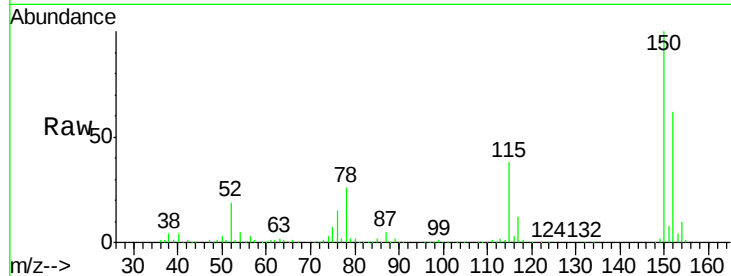
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.87 min Scan# 814
 Delta R.T. -0.01 min
 Lab File: BF118660.D
 Acq: 22 Jan 2020 11:38

Instrument :
 BNA_F
 ClientSampleId :
 SB-12-(4-6)DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	160.1	125.6	188.4
115	61.0	48.4	72.6

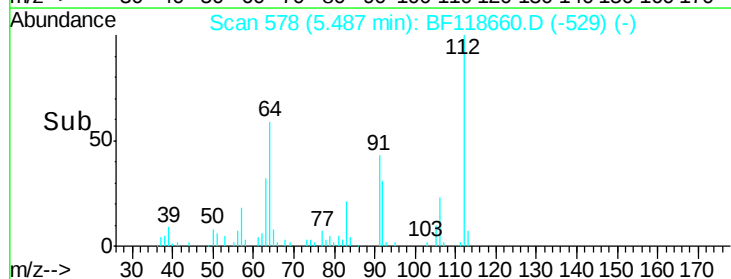
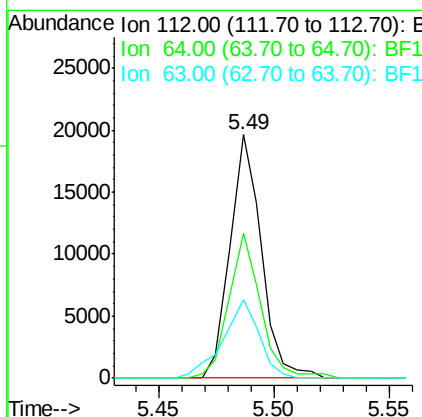
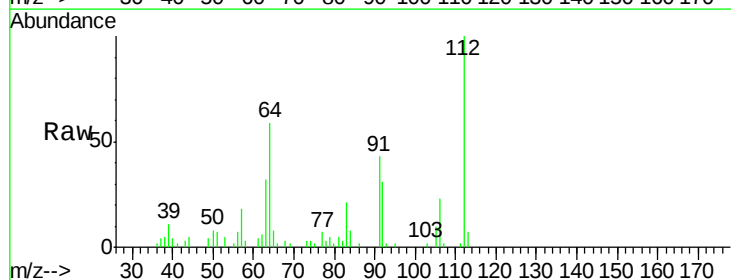
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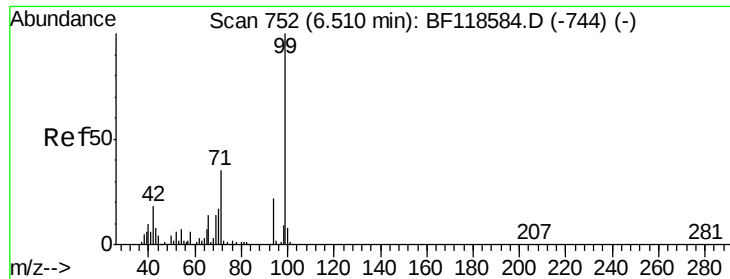
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#5
 2-Fluorophenol
 Concen: 1.010 ng
 RT: 5.49 min Scan# 578
 Delta R.T. -0.01 min
 Lab File: BF118660.D
 Acq: 22 Jan 2020 11:38

Tgt Ion	Ratio	Lower	Upper
112	100		
64	59.3	46.6	70.0
63	32.1	25.1	37.7





#7

Phenol-d6

Concen: 1.103 ng

RT: 6.49 min Scan# 749

Delta R.T. -0.02 min

Lab File: BF118660.D

Acq: 22 Jan 2020 11:38

Instrument :

BNA_F

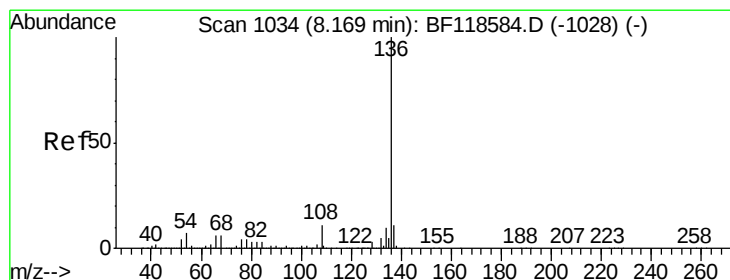
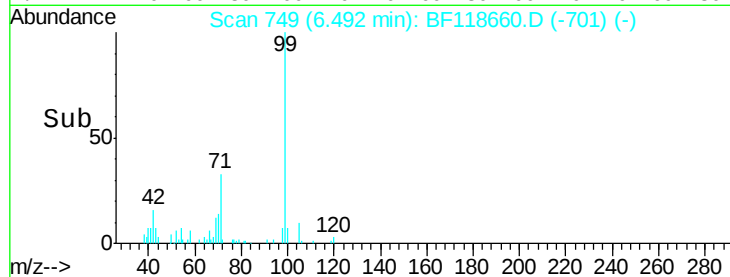
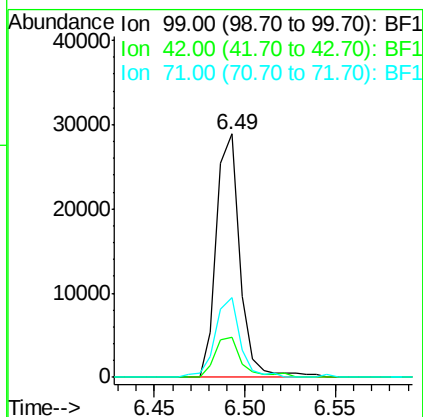
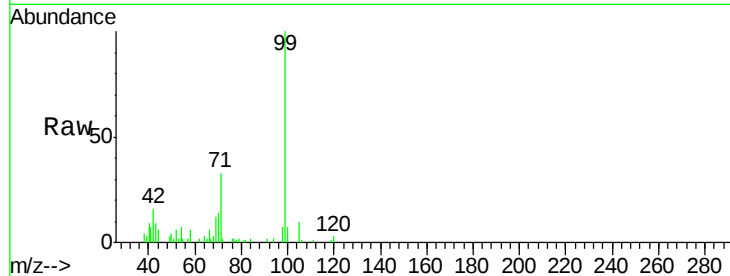
ClientSampleId :

SB-12-(4-6)DL

Tot Ion:	99	Resp:	26364
Ion Ratio	Lower	Upper	
99	100		
42	16.3	14.2	21.2
71	32.8	27.8	41.6

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#21

Naphthalene-d8

Concen: 20.000 ng

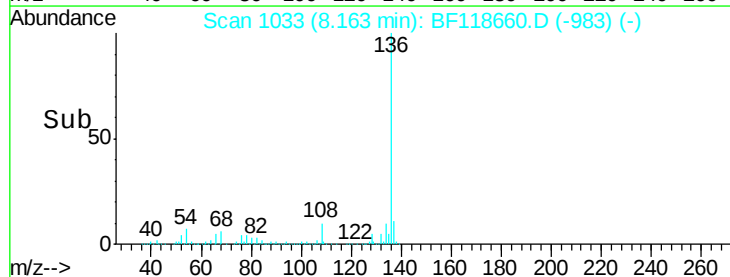
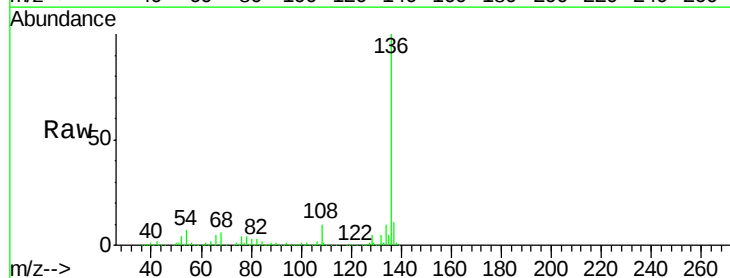
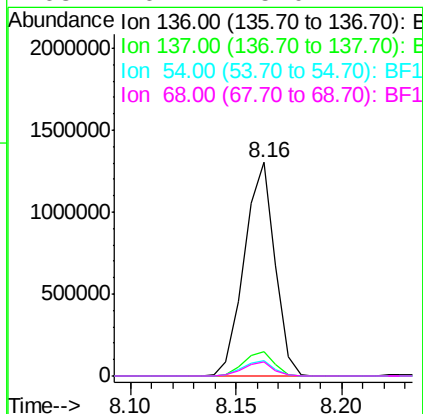
RT: 8.16 min Scan# 1033

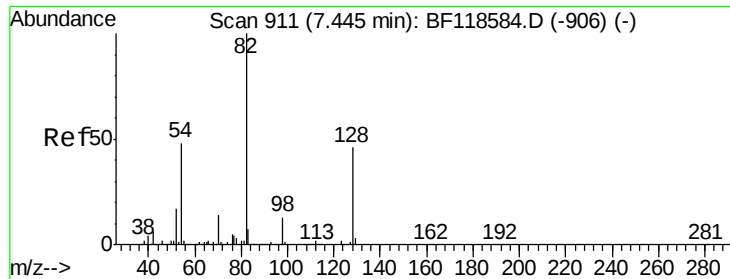
Delta R.T. -0.01 min

Lab File: BF118660.D

Acq: 22 Jan 2020 11:38

Tgt Ion:	136	Resp:	1308404
Ion Ratio	Lower	Upper	
136	100		
137	11.3	9.1	13.7
54	7.2	5.8	8.6
68	6.4	5.0	7.4





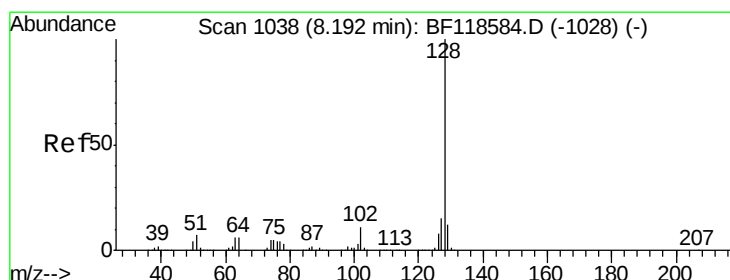
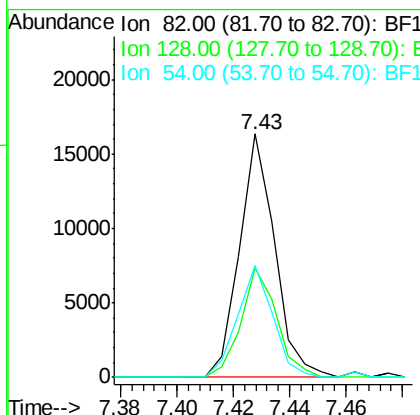
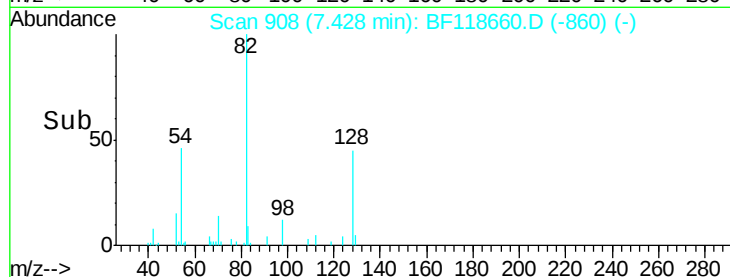
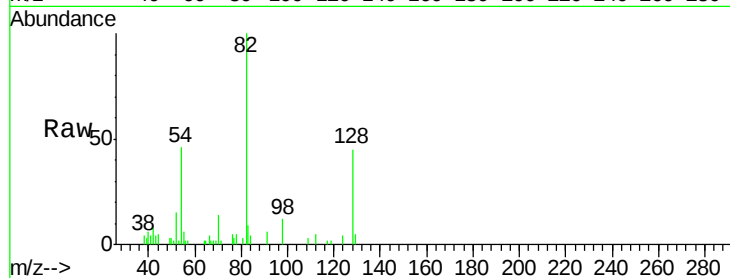
#23
Nitrobenzene-d5
Concen: 0.608 ng
RT: 7.43 min Scan# 908
Delta R.T. -0.02 min
Lab File: BF118660.D
Acq: 22 Jan 2020 11:38

Instrument :
BNA_F
ClientSampleId :
SB-12-(4-6)DL

Tot Ion:	82	Resp:	14212
Ion Ratio	Lower	Upper	
82	100		
128	45.1	36.6	54.8
54	45.9	38.0	57.0

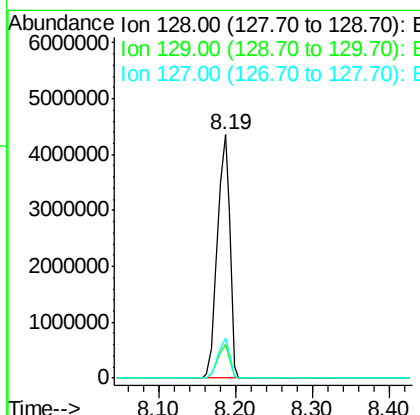
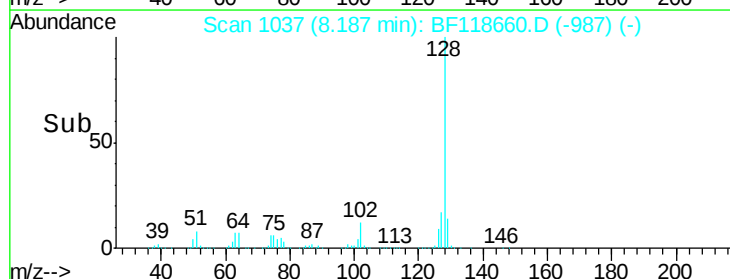
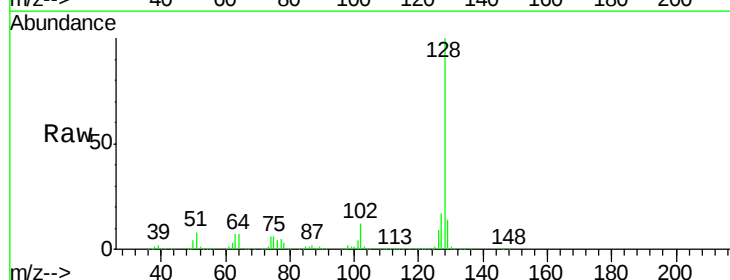
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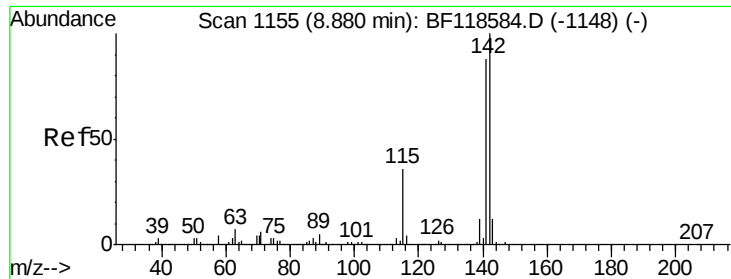
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#31
Naphthalene
Concen: 81.342 ng
RT: 8.19 min Scan# 1037
Delta R.T. -0.01 min
Lab File: BF118660.D
Acq: 22 Jan 2020 11:38

Tgt Ion:	128	Resp:	4807703
Ion Ratio	Lower	Upper	
128	100		
129	14.0	9.9	14.9
127	16.6	12.0	18.0





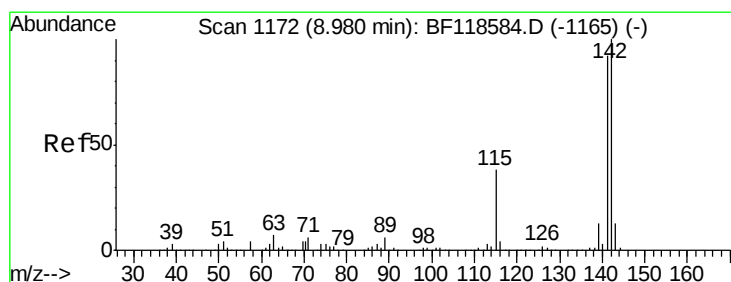
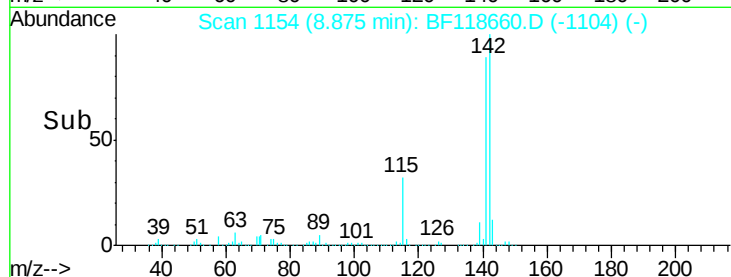
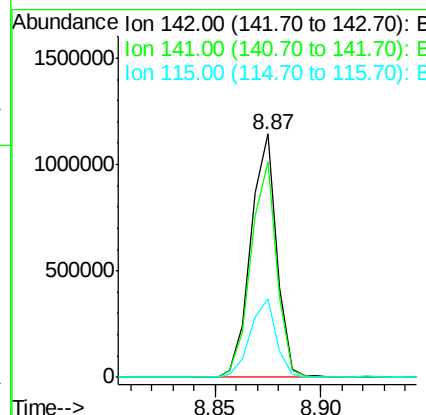
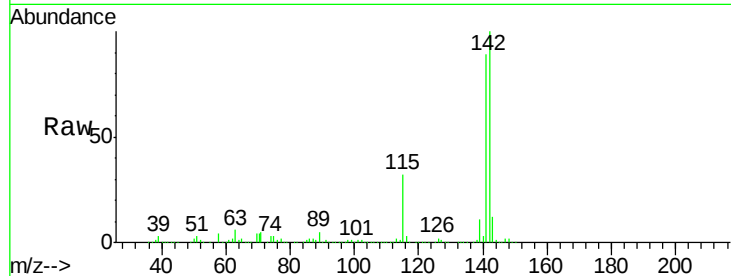
#37
2-Methylnaphthalene
Concen: 23.409 ng
RT: 8.87 min Scan# 1154
Delta R.T. -0.01 min
Lab File: BF118660.D
Acq: 22 Jan 2020 11:38

Instrument :
BNA_F
ClientSampleId :
SB-12-(4-6)DL

Tot Ion	Ion	Ratio	Resp	Lower	Upper
142	100		976623		
141	88.7	70.7	106.1		
115	32.4	28.5	42.7		

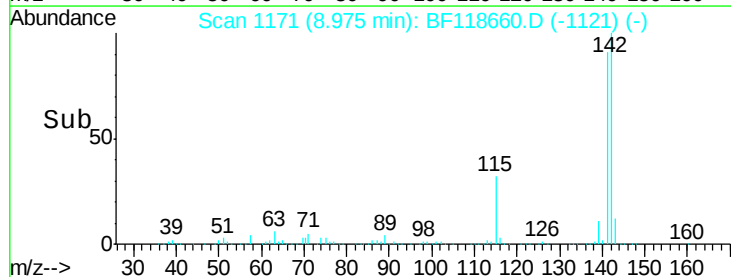
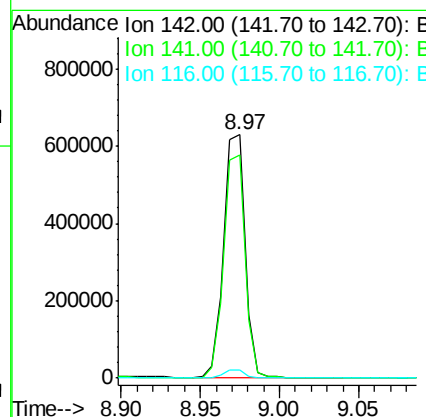
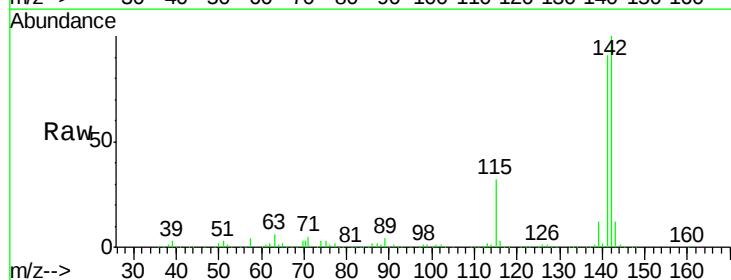
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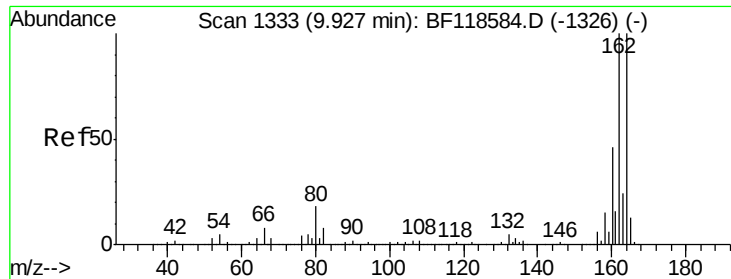
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#38
1-Methylnaphthalene
Concen: 14.953 ng
RT: 8.97 min Scan# 1171
Delta R.T. -0.01 min
Lab File: BF118660.D
Acq: 22 Jan 2020 11:38

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
142	100		592656		
141	91.5	73.4	110.2		
116	3.3	3.3	4.9		





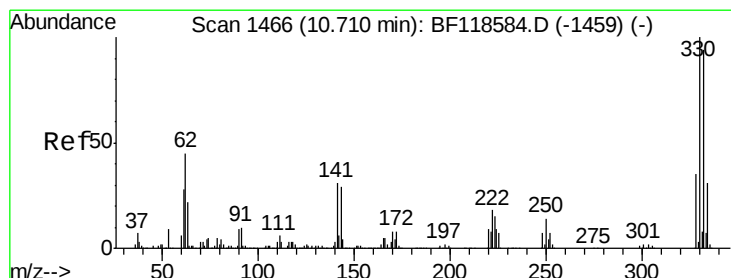
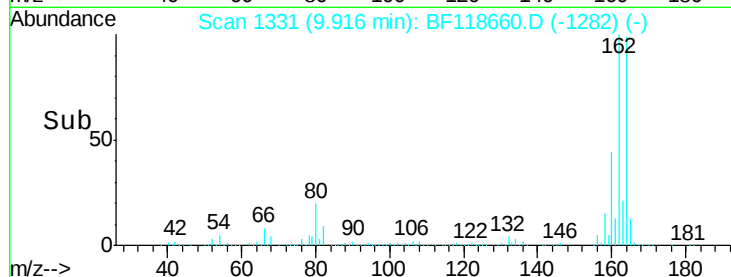
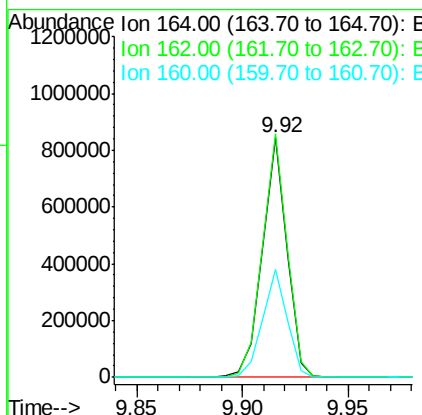
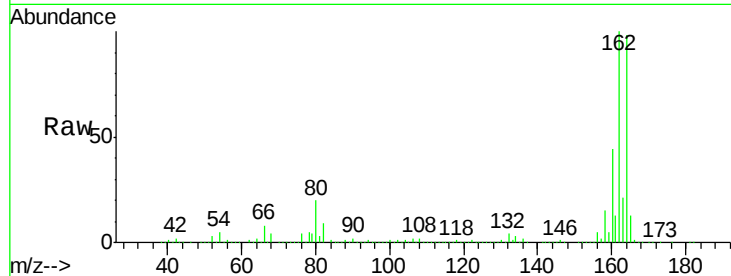
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.92 min Scan# 1331
Delta R.T. -0.01 min
Lab File: BF118660.D
Acq: 22 Jan 2020 11:38

Instrument :
BNA_F
ClientSampleId :
SB-12-(4-6)DL

Tot Ion	Ratio	Lower	Upper
164	100		
162	101.6	80.4	120.6
160	45.0	36.6	55.0

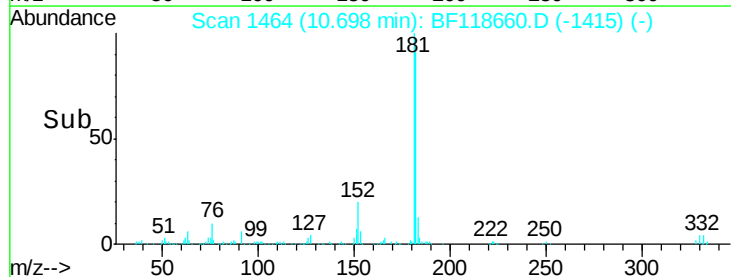
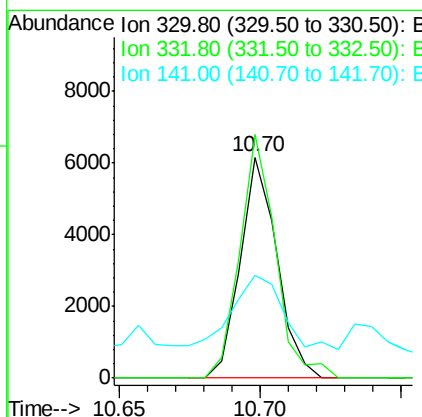
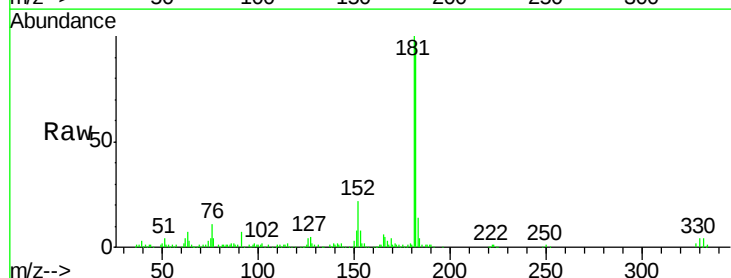
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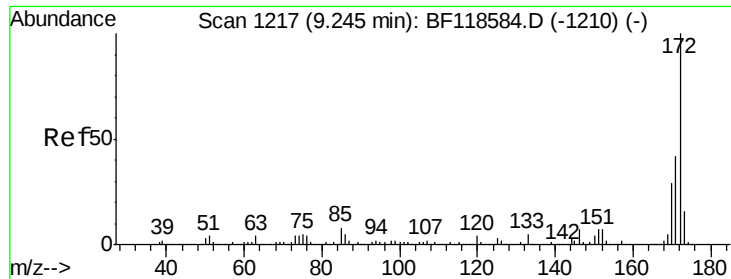
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#42
2,4,6-Tribromophenol
Concen: 0.696 ng
RT: 10.70 min Scan# 1464
Delta R.T. -0.01 min
Lab File: BF118660.D
Acq: 22 Jan 2020 11:38

Tgt Ion	Ratio	Lower	Upper
330	100		
332	107.6	76.2	114.4
141	46.0	23.9	35.9#





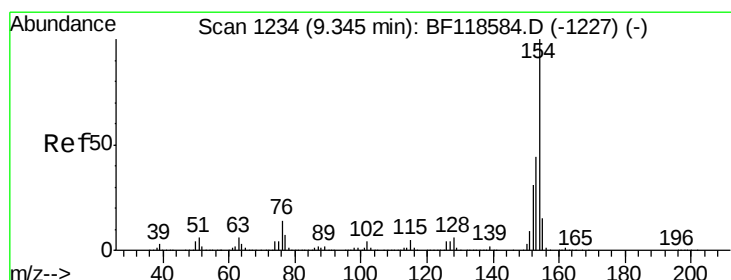
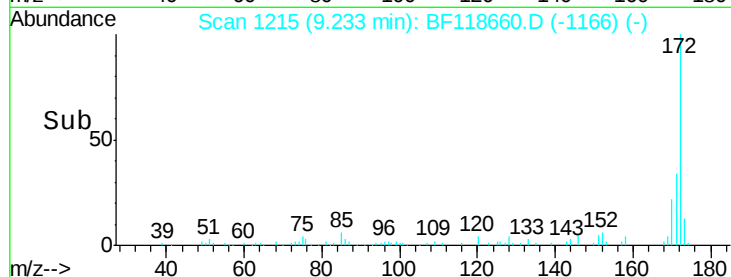
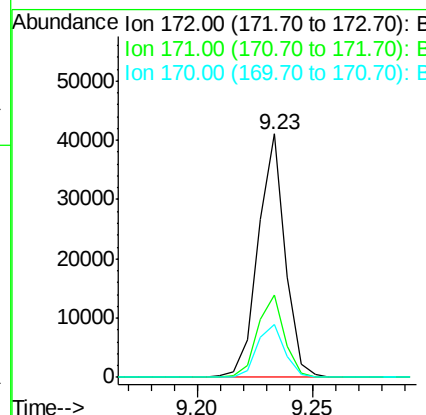
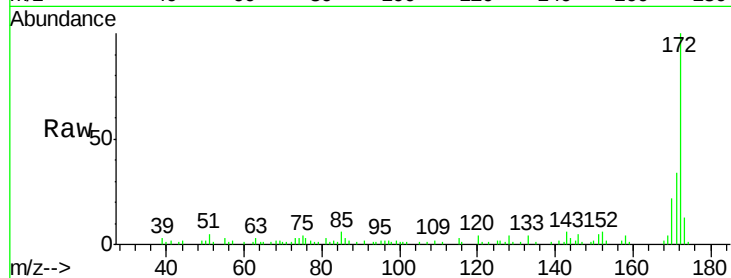
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2-Fluorobiphenyl
Concen: 0.798 ng
RT: 9.23 min Scan# 1215
Delta R.T. -0.01 min
Lab File: BF118660.D
Acq: 22 Jan 2020 11:38

Instrument :
BNA_F
ClientSampleID :
SB-12-(4-6)DL

Tot Ion	Ratio	Lower	Upper
172	100		
171	33.7	33.4	50.2
170	21.7	23.2	34.8

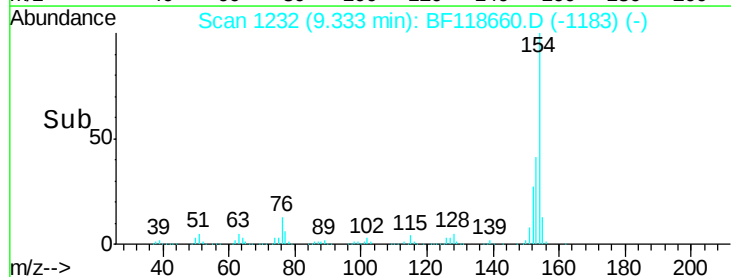
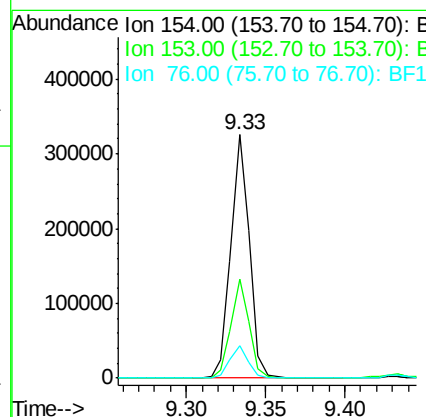
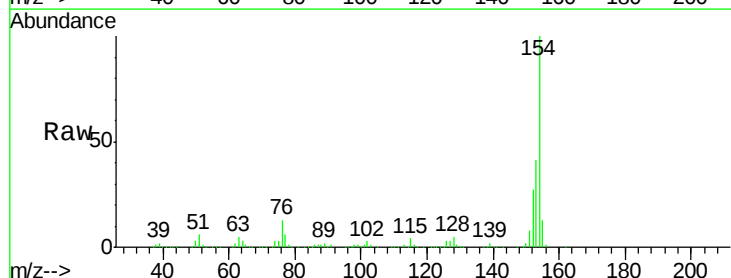
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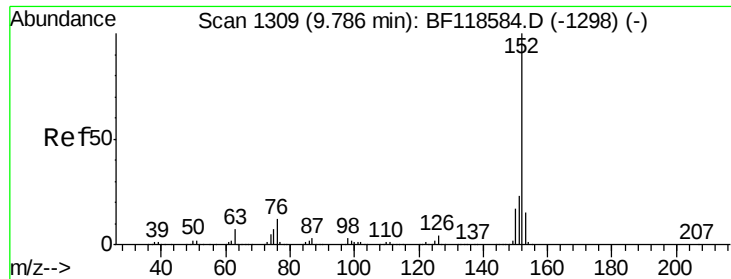
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#46
1,1'-Biphenyl
Concen: 5.536 ng
RT: 9.33 min Scan# 1232
Delta R.T. -0.01 min
Lab File: BF118660.D
Acq: 22 Jan 2020 11:38

Tgt Ion	Ratio	Lower	Upper
154	100		
153	40.7	23.8	63.8
76	13.4	0.0	34.3





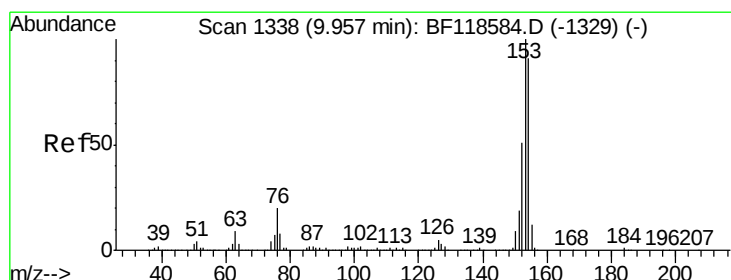
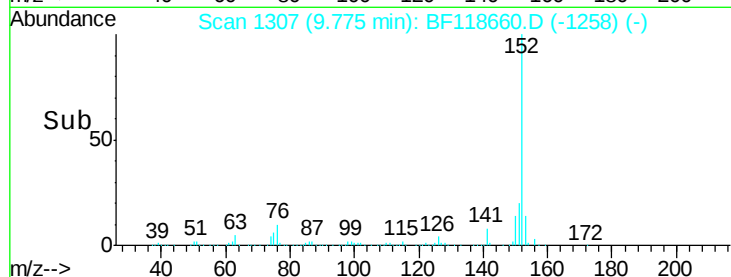
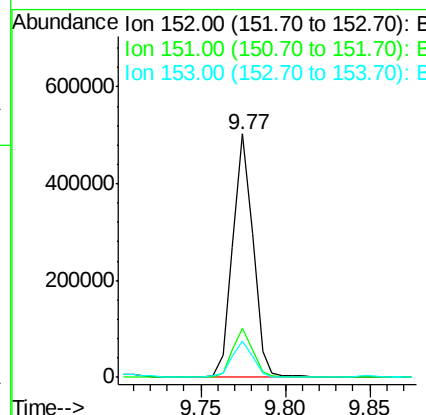
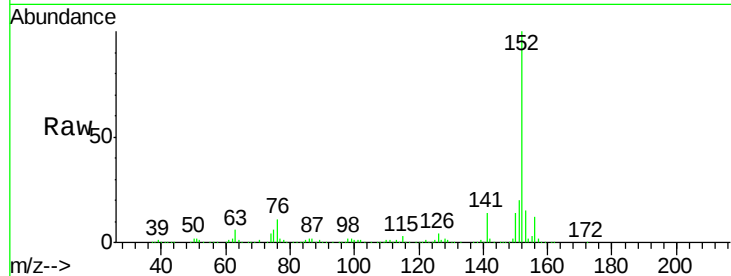
#49
Acenaphthylene
Concen: 7.505 ng
RT: 9.77 min Scan# 1307
Delta R.T. -0.01 min
Lab File: BF118660.D
Acq: 22 Jan 2020 11:38

Instrument :
BNA_F
ClientSampleId :
SB-12-(4-6)DL

Tot Ion	Ratio	Lower	Upper
152	100		
151	20.4	18.6	27.8
153	15.0	12.2	18.4

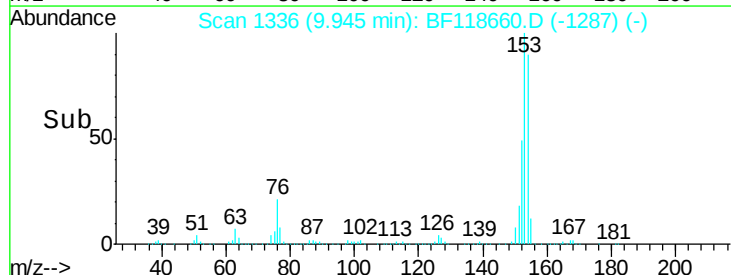
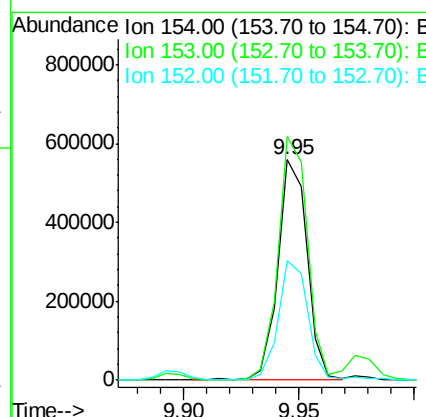
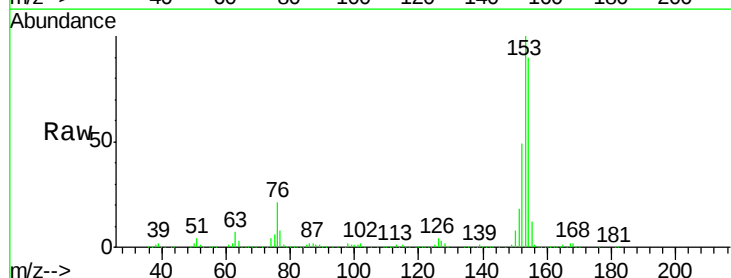
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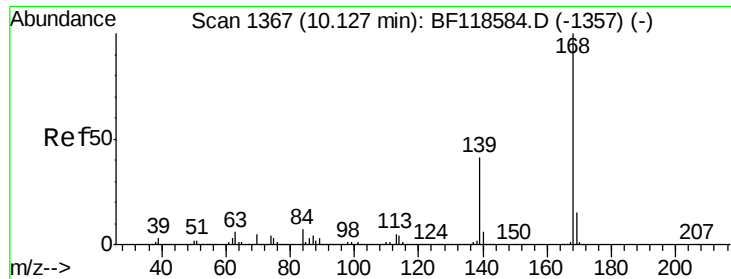
mohammad
1/22/2020 1:37:01 PM



#52
Acenaphthene
Concen: 12.884 ng
RT: 9.95 min Scan# 1336
Delta R.T. -0.01 min
Lab File: BF118660.D
Acq: 22 Jan 2020 11:38

Tgt Ion	Ratio	Lower	Upper
154	100		
153	110.7	87.6	131.4
152	54.4	44.4	66.6





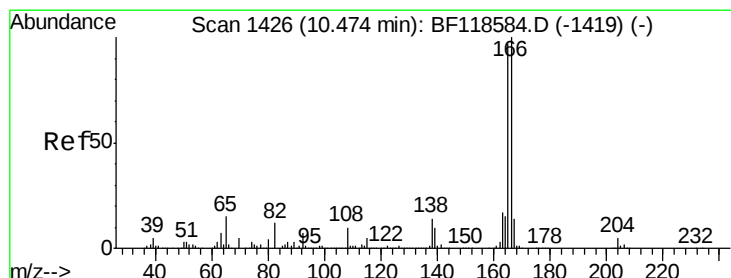
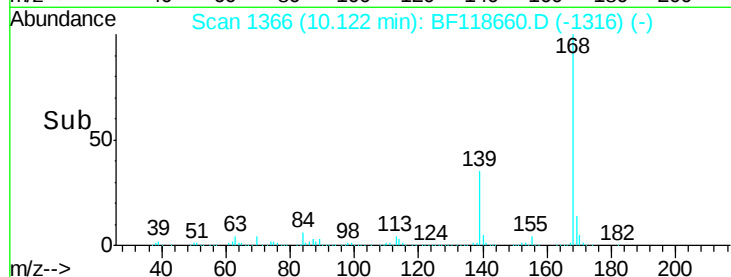
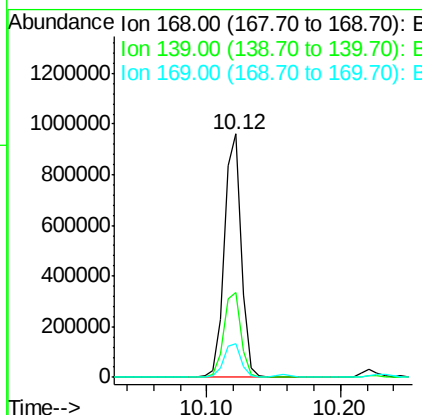
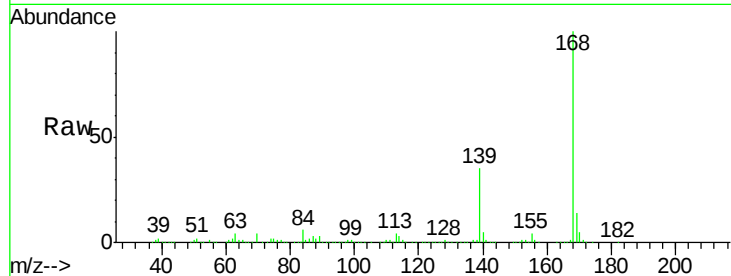
#55
Dibenzenofuran
Concen: 16.431 ng
RT: 10.12 min Scan# 1366
Delta R.T. -0.01 min
Lab File: BF118660.D
Acq: 22 Jan 2020 11:38

Instrument :
BNA_F
ClientSampleId :
SB-12-(4-6)DL

Tot Ion	Ratio	Lower	Upper
168	100		
139	34.9	32.7	49.1
169	14.1	12.2	18.2

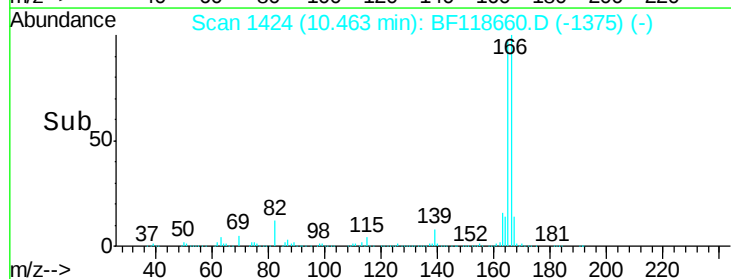
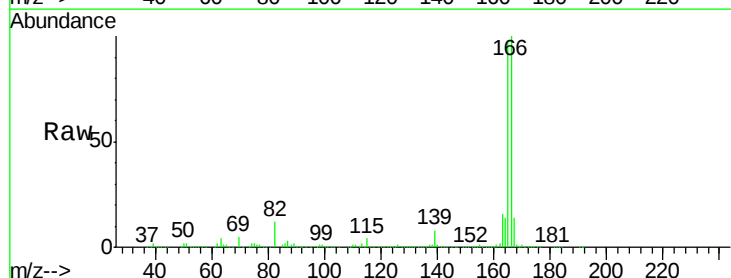
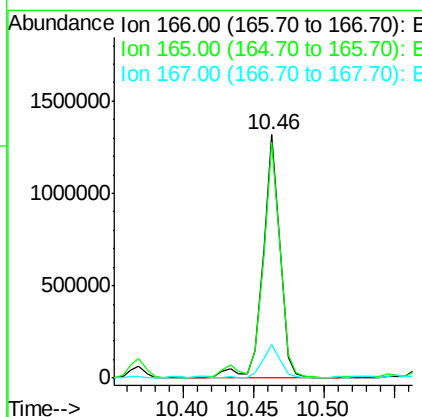
Manual Integrations
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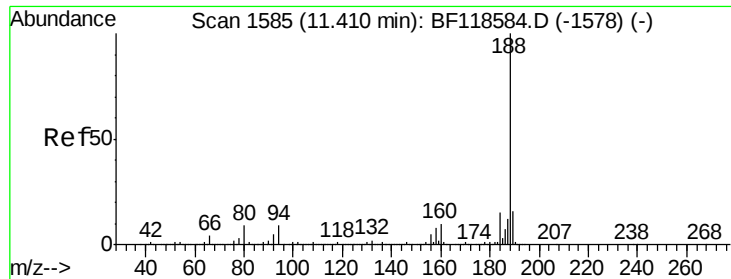
mohammad
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#58
Fluorene
Concen: 27.643 ng
RT: 10.46 min Scan# 1424
Delta R.T. -0.01 min
Lab File: BF118660.D
Acq: 22 Jan 2020 11:38

Tgt Ion	Ratio	Lower	Upper
166	100		
165	97.1	77.3	115.9
167	14.0	11.5	17.3





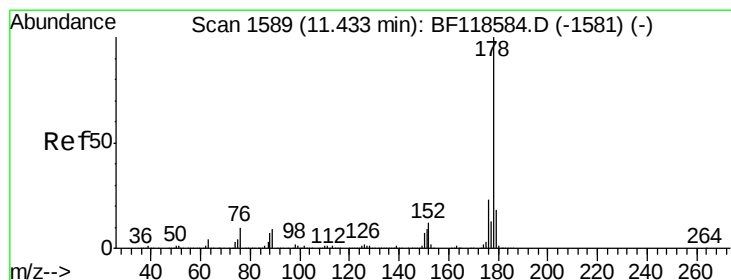
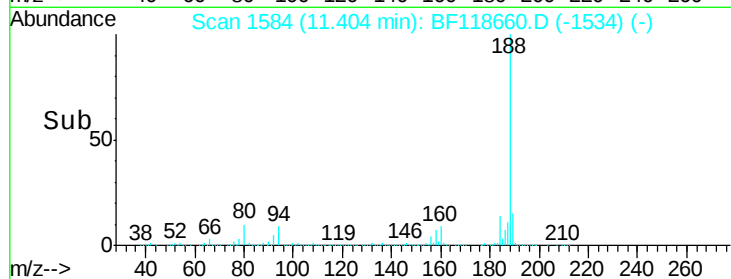
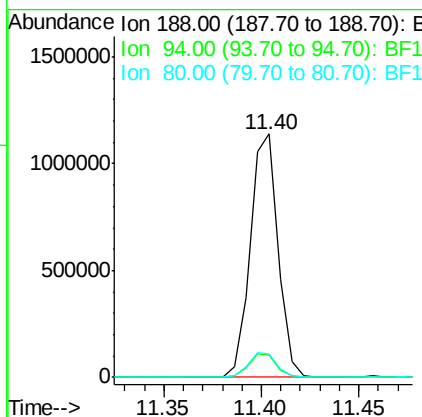
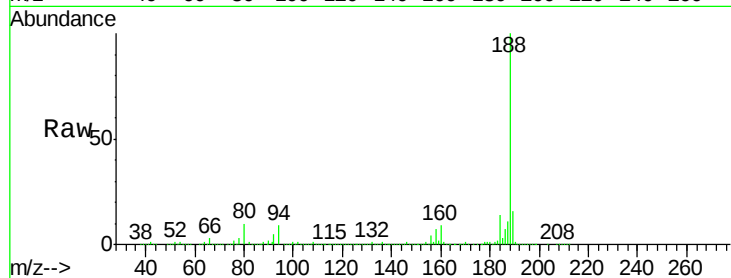
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.40 min Scan# 1584
Delta R.T. -0.01 min
Lab File: BF118660.D
Acq: 22 Jan 2020 11:38

Instrument :
BNA_F
ClientSampleId :
SB-12-(4-6)DL

Tot Ion	Ratio	Lower	Upper
188	100		
94	9.0	7.1	10.7
80	9.6	7.5	11.3

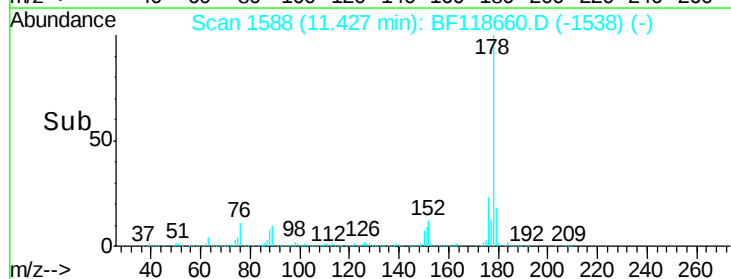
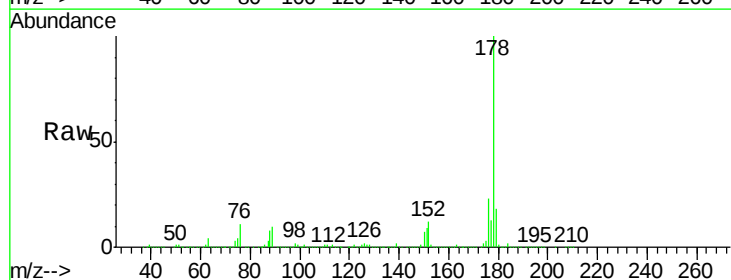
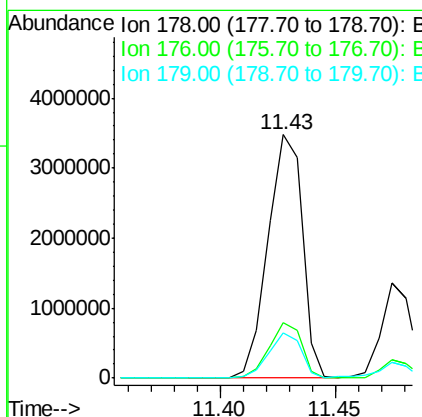
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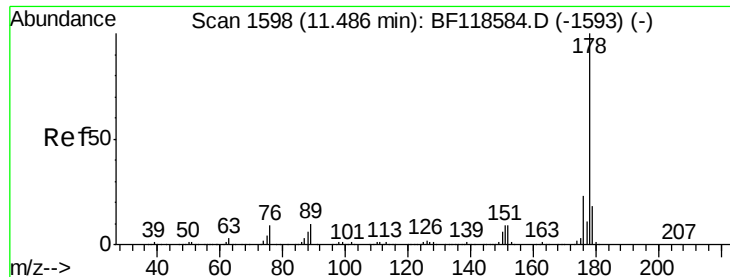
mohammad
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#71
Phenanthrene
Concen: 66.690 ng
RT: 11.43 min Scan# 1588
Delta R.T. -0.01 min
Lab File: BF118660.D
Acq: 22 Jan 2020 11:38

Tgt Ion	Ratio	Lower	Upper
178	100		
176	22.8	18.6	27.8
179	18.4	14.7	22.1





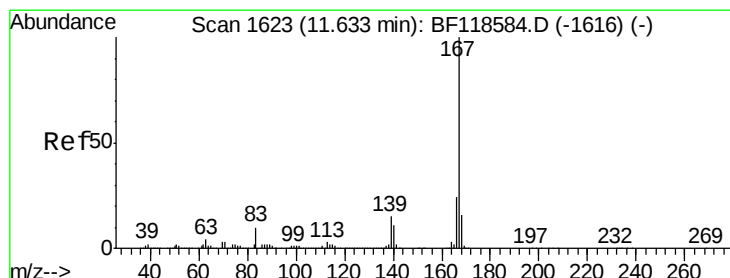
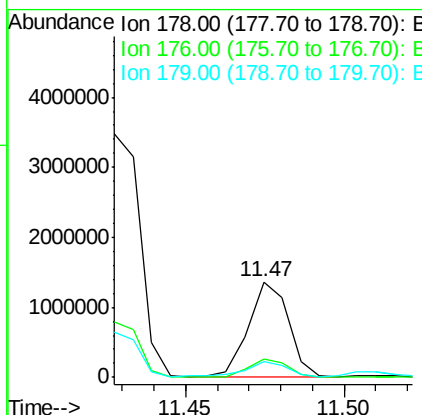
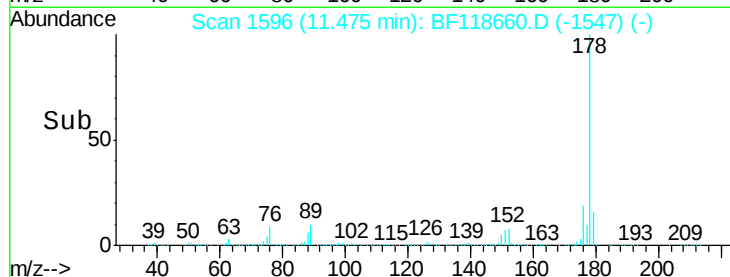
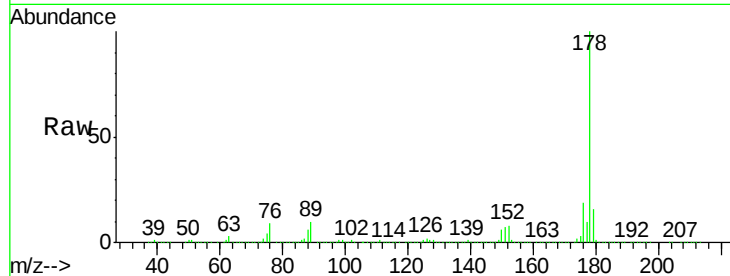
#72
 Anthracene
 Concen: 22.205 ng
 RT: 11.47 min Scan# 1596
 Delta R.T. -0.01 min
 Lab File: BF118660.D
 Acq: 22 Jan 2020 11:38

Instrument :
 BNA_F
 ClientSampleId :
 SB-12-(4-6)DL

Tot Ion:178 Resp: 1184726
 Ion Ratio Lower Upper
 178 100
 176 19.4 18.0 27.0
 179 16.2 14.7 22.1

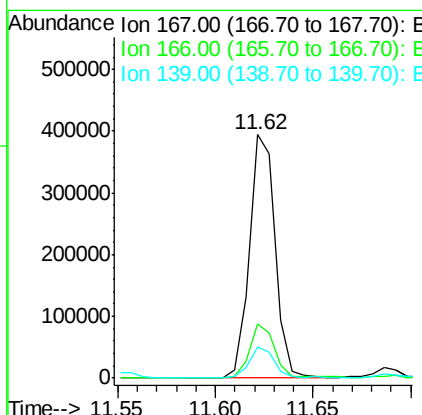
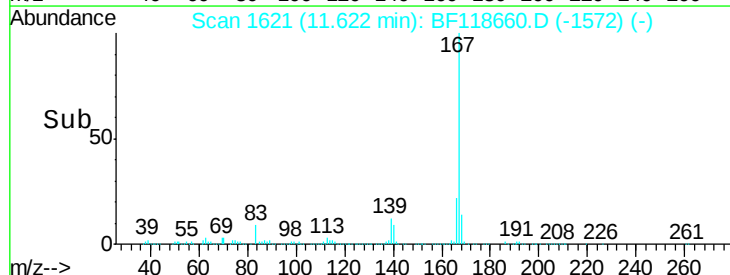
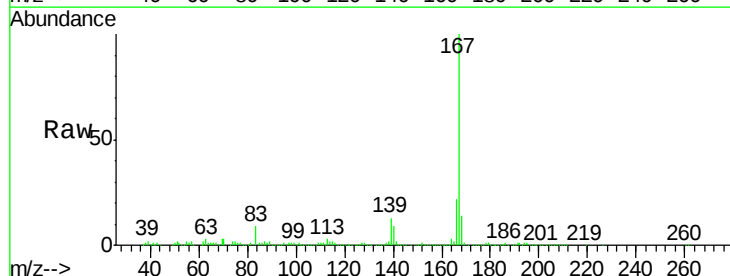
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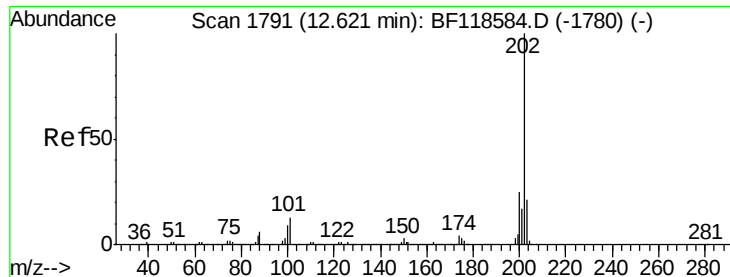
mohammad
 1/22/2020 1:37:01 PM



#73
 Carbazole
 Concen: 7.287 ng
 RT: 11.62 min Scan# 1621
 Delta R.T. -0.01 min
 Lab File: BF118660.D
 Acq: 22 Jan 2020 11:38

Tgt Ion:167 Resp: 356633
 Ion Ratio Lower Upper
 167 100
 166 22.0 19.4 29.2
 139 12.7 11.7 17.5





#75

Fluoranthene

Concen: 42.003 ng

RT: 12.62 min Scan# 1790

Delta R.T. -0.01 min

Lab File: BF118660.D

Acq: 22 Jan 2020 11:38

Instrument :

BNA_F

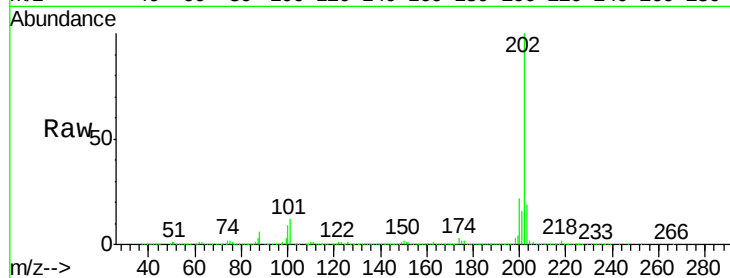
ClientSampleId :

SB-12-(4-6)DL

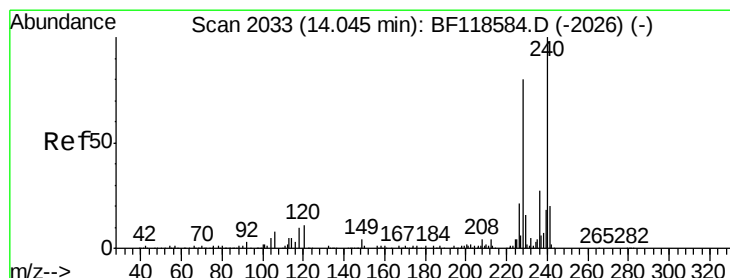
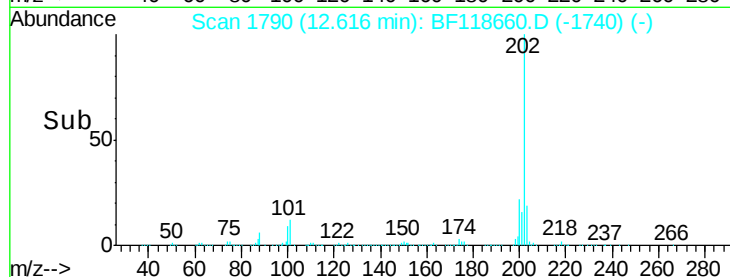
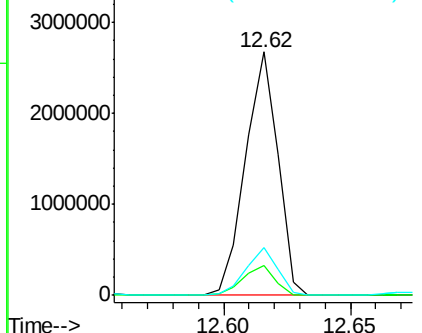
Tot Ion:	202	Resp:	2388743
Ion	Ratio	Lower	Upper
202	100		
101	12.1	0.0	32.5
203	19.5	0.8	40.8

Manual Integrations
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Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E



#76

Chrysene-d12

Concen: 20.000 ng

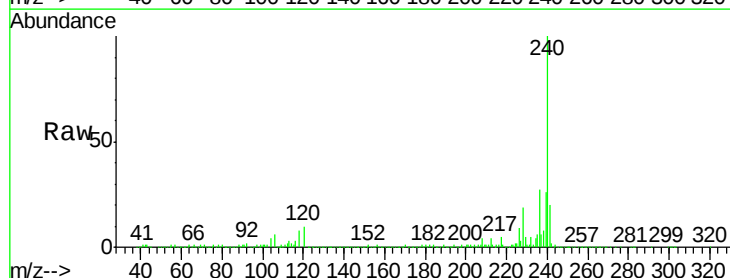
RT: 14.04 min Scan# 2032

Delta R.T. -0.01 min

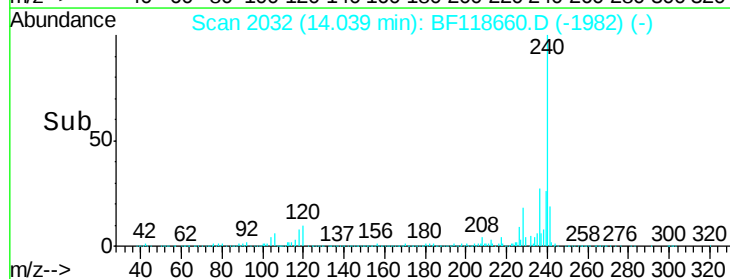
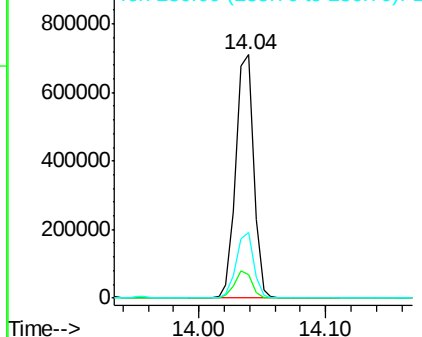
Lab File: BF118660.D

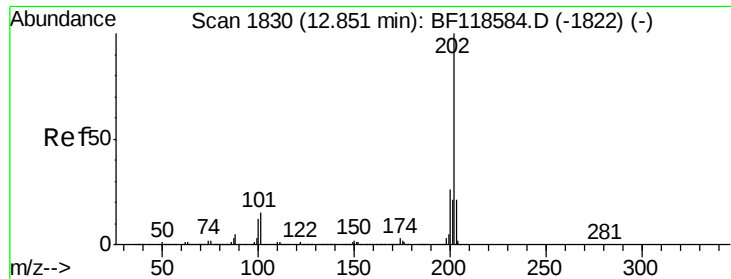
Acq: 22 Jan 2020 11:38

Tgt Ion:	240	Resp:	686654
Ion	Ratio	Lower	Upper
240	100		
120	9.7	8.9	13.3
236	26.9	21.5	32.3



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





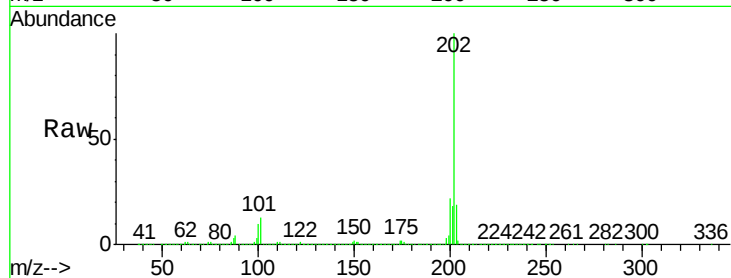
#78
Pvrene
Concen: 44.033 ng
RT: 12.85 min Scan# 1829
Delta R.T. -0.01 min
Lab File: BF118660.D
Acq: 22 Jan 2020 11:38

Instrument :
BNA_F
ClientSampleId :
SB-12-(4-6)DL

Tot Ion	Ratio	Lower	Upper
202	100		
200	22.2	20.6	31.0
203	18.7	16.8	25.2

Manual Integrations
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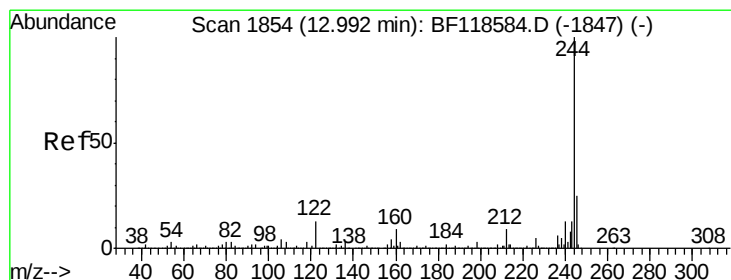
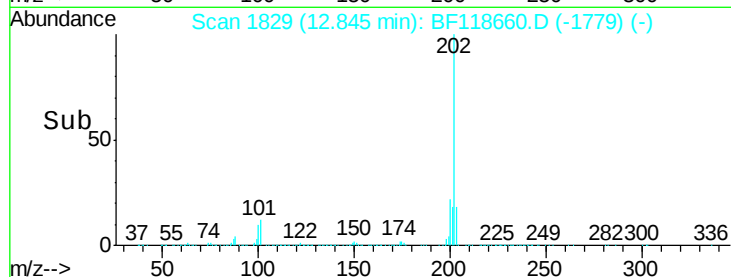
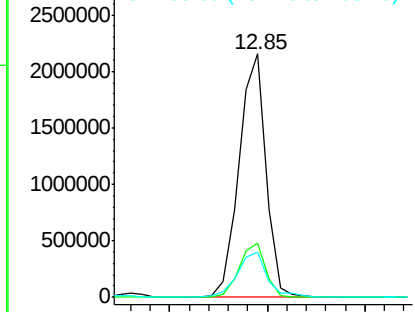


Abundance

Ion 202.00 (201.70 to 202.70): E

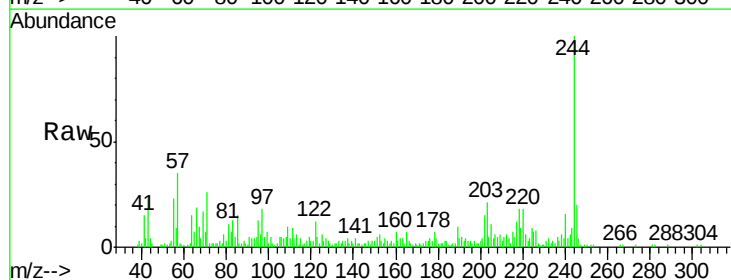
Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#79
Terphenyl-d14
Concen: 1.053 ng
RT: 12.98 min Scan# 1852
Delta R.T. -0.01 min
Lab File: BF118660.D
Acq: 22 Jan 2020 11:38

Tgt Ion	Ratio	Lower	Upper
244	100		
212	5.8	7.0	10.4#
122	11.7	10.7	16.1

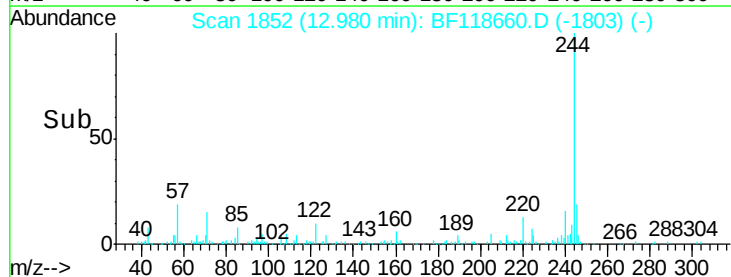
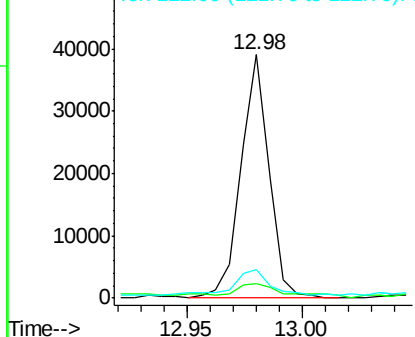


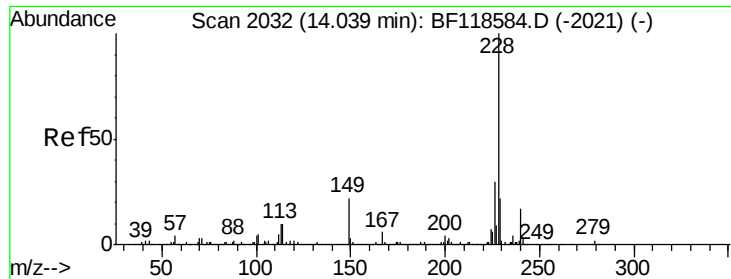
Abundance

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





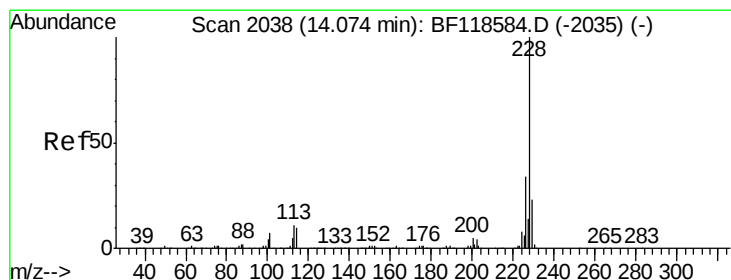
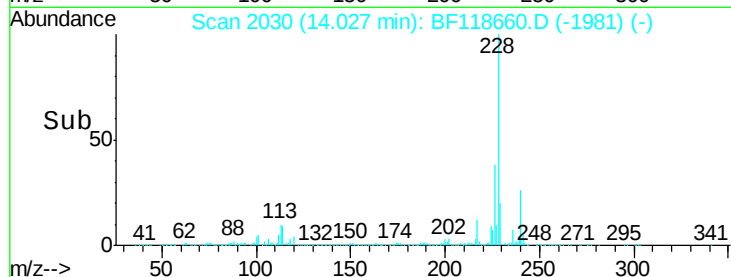
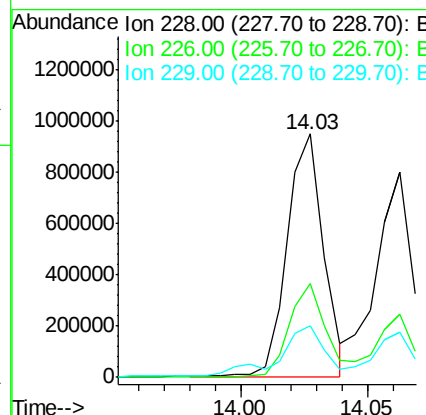
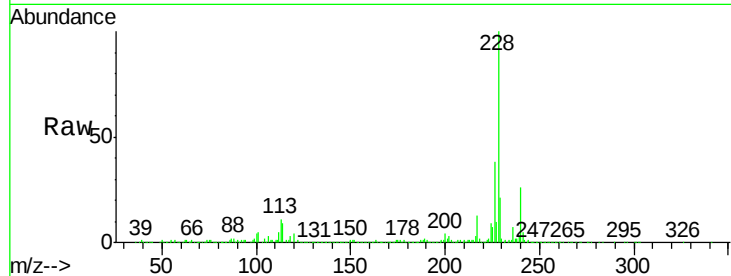
#81
Benzo(a)anthracene
Concen: 23.020 ng
RT: 14.03 min Scan# 2030
Delta R.T. -0.01 min
Lab File: BF118660.D
Acq: 22 Jan 2020 11:38

Instrument :
BNA_F
ClientSampleId :
SB-12-(4-6)DL

Tot Ion	Ratio	Lower	Upper
228	100		
226	38.5	24.1	36.1#
229	21.2	17.6	26.4

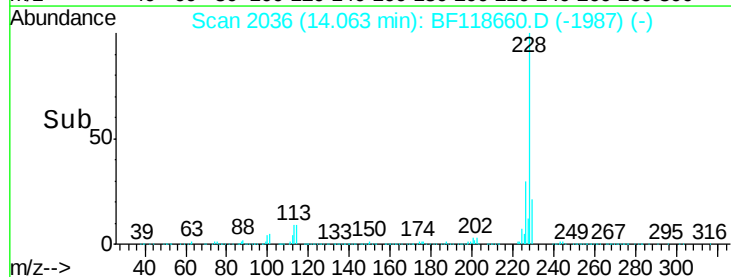
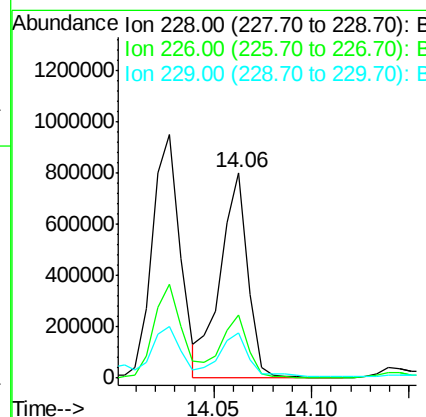
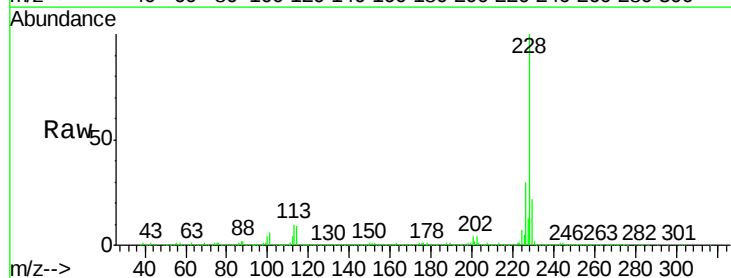
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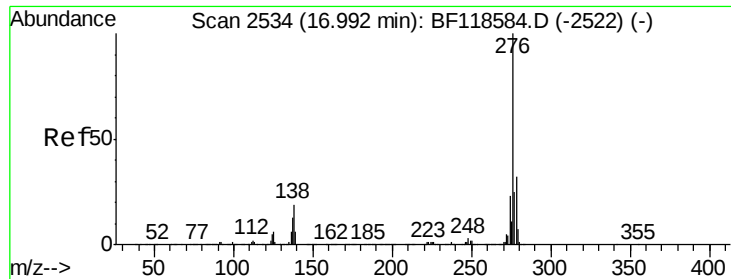
mohammad
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#83
Chrysene
Concen: 19.639 ng
RT: 14.06 min Scan# 2036
Delta R.T. -0.01 min
Lab File: BF118660.D
Acq: 22 Jan 2020 11:38

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.5	27.4	41.0
229	21.8	18.3	27.5





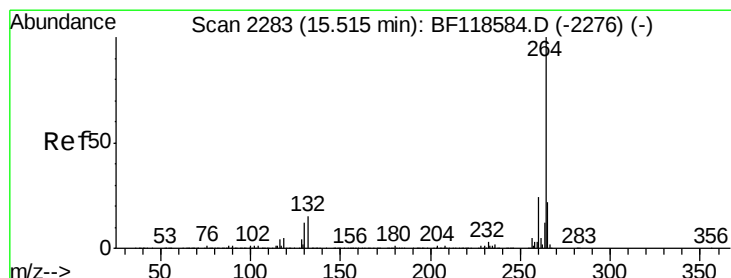
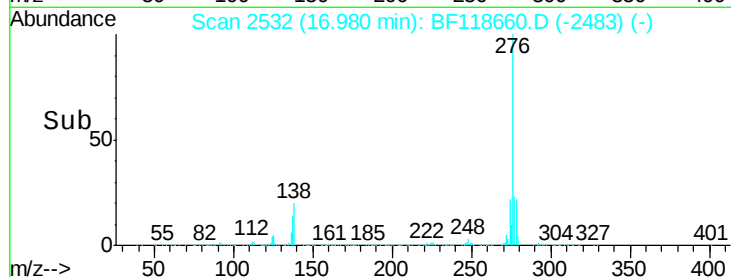
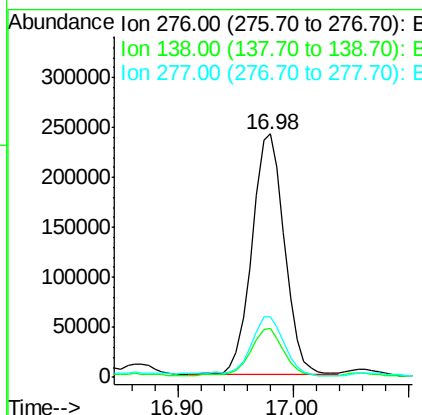
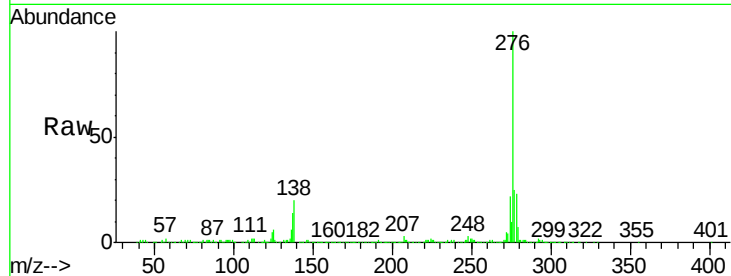
#86
 Indeno(1,2,3-cd)pyrene
 Concen: 13.749 ng
 RT: 16.98 min Scan# 2532
 Delta R.T. -0.01 min
 Lab File: BF118660.D
 Acq: 22 Jan 2020 11:38

Instrument :
 BNA_F
 ClientSampleId :
 SB-12-(4-6)DL

Tot Ion	Ratio	Lower	Upper
276	100		
138	20.0	17.2	25.8
277	25.3	20.5	30.7

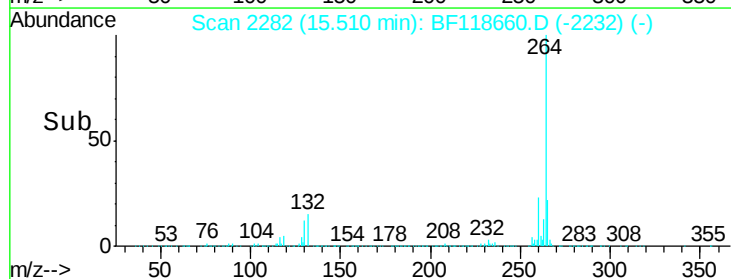
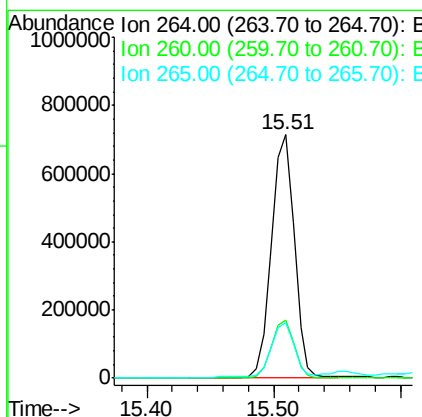
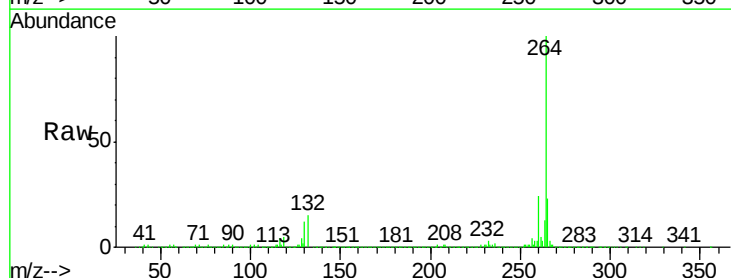
Manual Integrations
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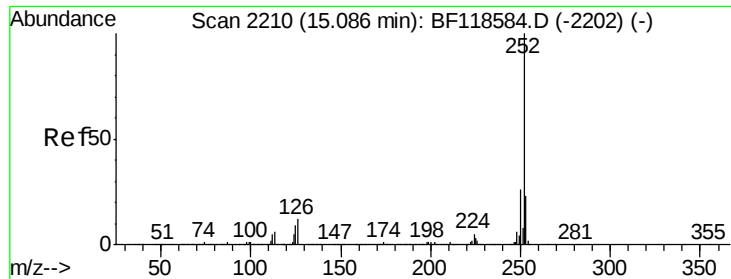
mohammad
 1/22/2020 1:37:01 PM



#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.51 min Scan# 2282
 Delta R.T. -0.01 min
 Lab File: BF118660.D
 Acq: 22 Jan 2020 11:38

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.6	19.6	29.4
265	22.6	17.7	26.5





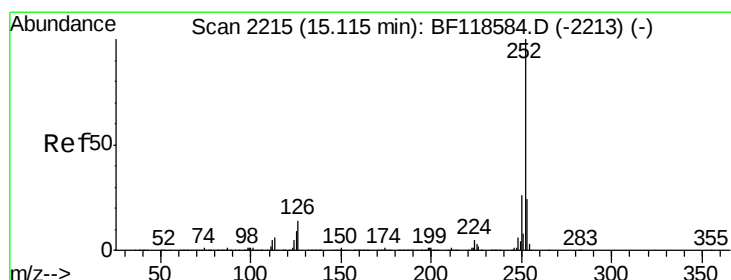
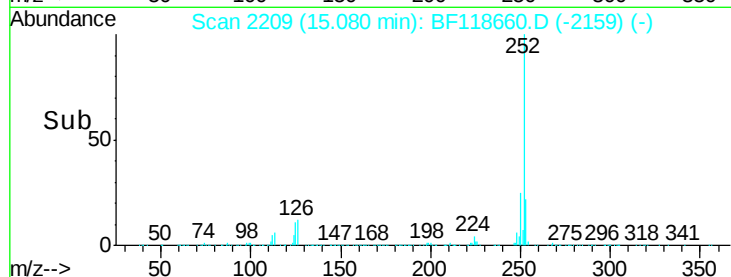
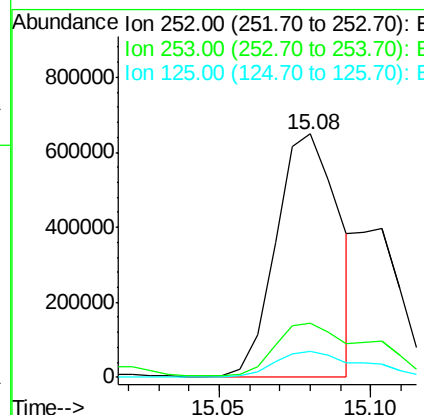
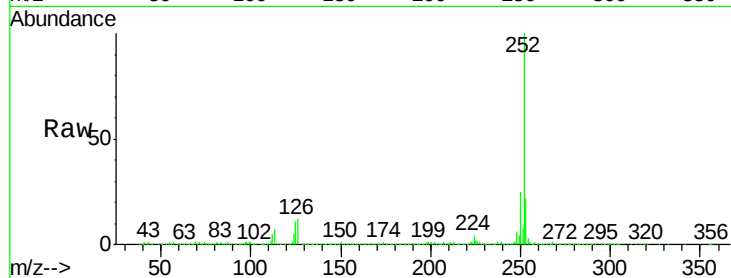
#88
Benzo(b)fluoranthene
Concen: 16.755 ng m
RT: 15.08 min Scan# 2209
Delta R.T. -0.01 min
Lab File: BF118660.D
Acq: 22 Jan 2020 11:38

Instrument :
BNA_F
ClientSampleId :
SB-12-(4-6)DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.4	18.7	28.1
125	10.8	7.3	10.9

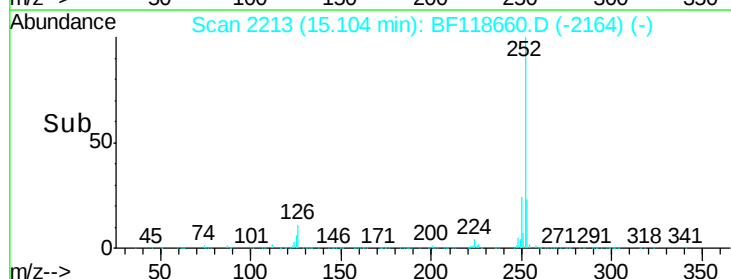
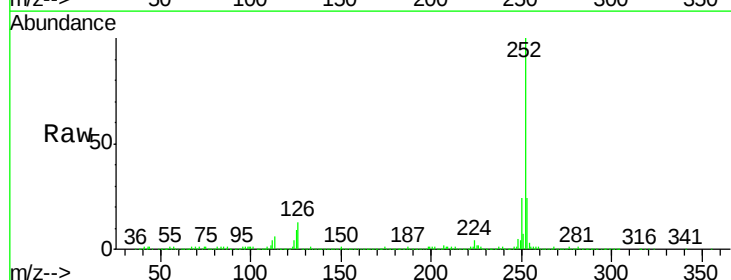
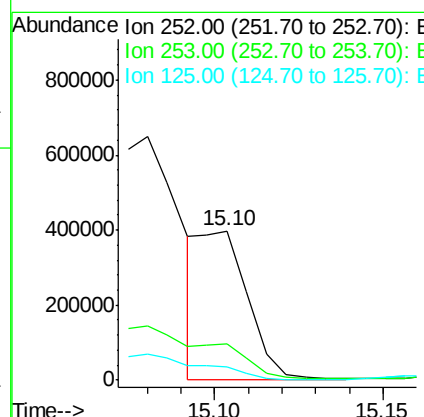
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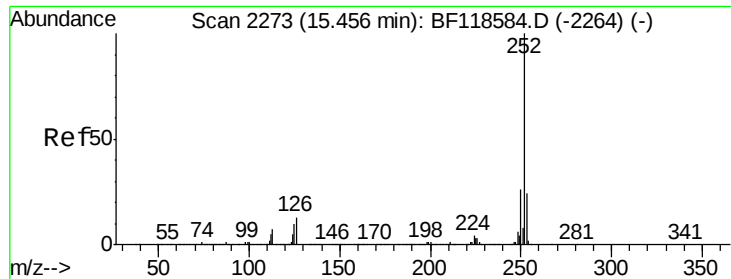
mohammad
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#89
Benzo(k)fluoranthene
Concen: 7.615 ng m
RT: 15.10 min Scan# 2213
Delta R.T. -0.01 min
Lab File: BF118660.D
Acq: 22 Jan 2020 11:38

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.1	19.0	28.4
125	8.9	7.6	11.4





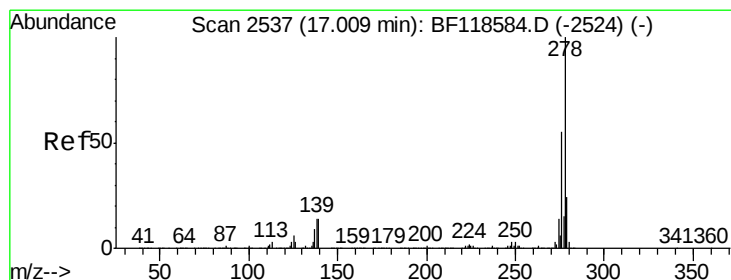
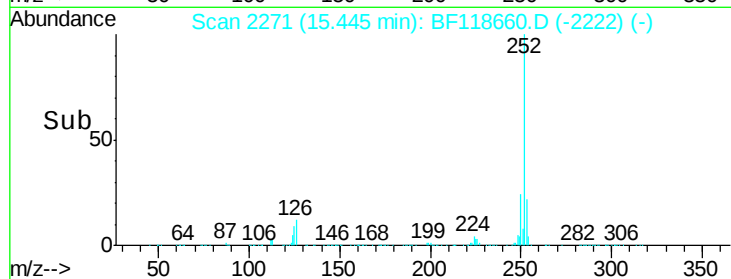
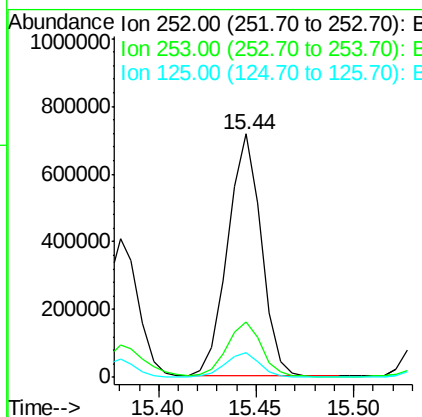
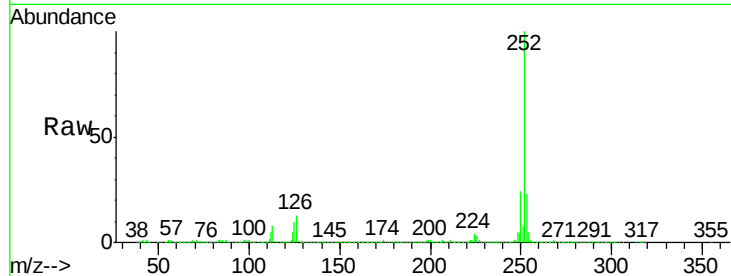
#90
Benzo(a)pyrene
Concen: 17.534 ng
RT: 15.44 min Scan# 2271
Delta R.T. -0.01 min
Lab File: BF118660.D
Acq: 22 Jan 2020 11:38

Instrument :
BNA_F
ClientSampleId :
SB-12-(4-6)DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.0	18.8	28.2
125	10.2	7.8	11.6

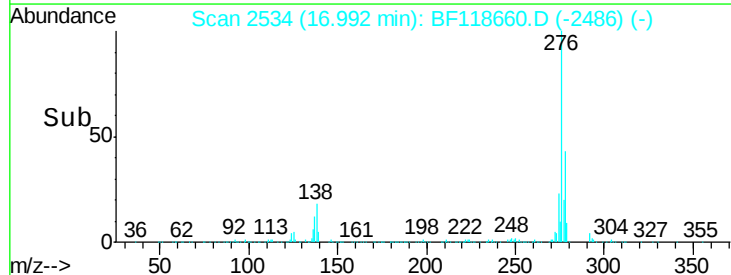
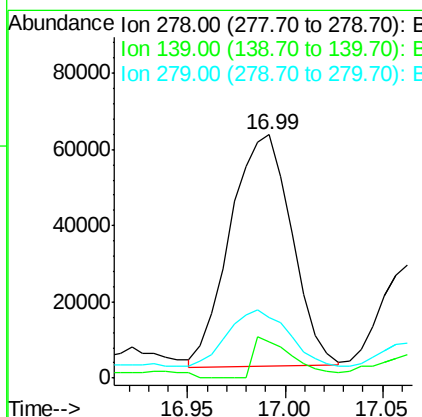
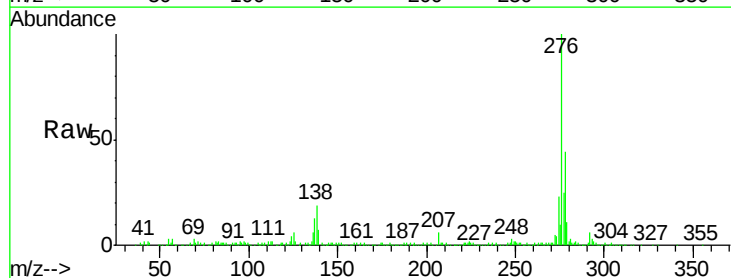
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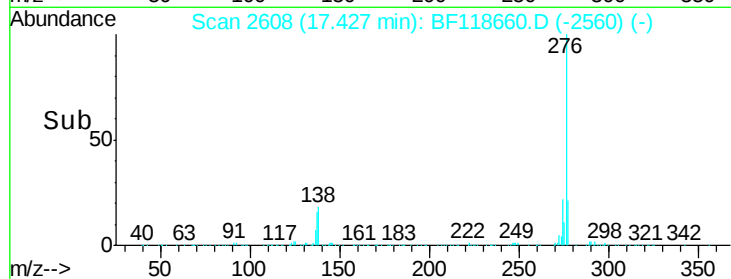
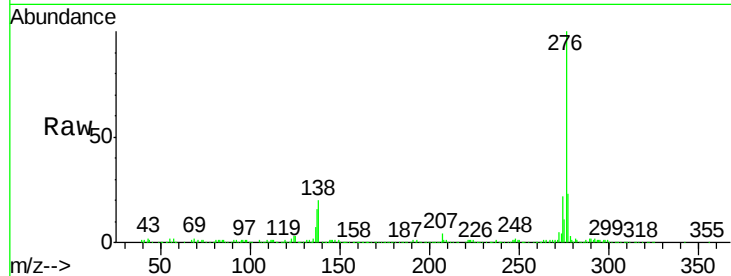
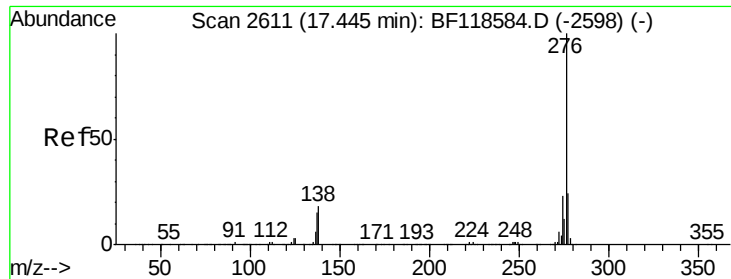
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#91
Dibenzo(a,h)anthracene
Concen: 3.085 ng
RT: 16.99 min Scan# 2534
Delta R.T. -0.02 min
Lab File: BF118660.D
Acq: 22 Jan 2020 11:38

Tgt Ion	Ratio	Lower	Upper
278	100		
139	15.0	11.4	17.0
279	25.1	19.0	28.6





#92
 Benzo(a,h,i)perylene
 Concen: 10.276 ng
 RT: 17.43 min Scan# 2608
 Delta R.T. -0.02 min
 Lab File: BF118660.D
 Acq: 22 Jan 2020 11:38

Instrument :
 BNA_F
 ClientSampleId :
 SB-12-(4-6)DL

Tot Ion	Ratio	Resp	Lower	Upper
276	100	428861		
277	22.9		18.9	28.3
138	19.5		14.4	21.6

Manual Integrations
 APPROVED

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