

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF012120\
 Data File : BF118654.D
 Acq On : 22 Jan 2020 1:28
 Operator : CG/JU
 Sample : L1148-17DL 400X
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-44-(2-4)DL

Manual Integrations
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Quant Time: Jan 22 06:04:43 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	6.88	152	330028	20.00	ng	0.00
21) Naphthalene-d8	8.16	136	1228375	20.00	ng	0.00
39) Acenaphthene-d10	9.92	164	619690	20.00	ng	-0.01
64) Phenanthrene-d10	11.40	188	946470	20.00	ng	-0.01
76) Chrysene-d12	14.03	240	771728	20.00	ng	-0.01
87) Perylene-d12	15.51	264	949327	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.49	112	3522	0.20	ng	-0.01
7) Phenol-d6	6.49	99	5163	0.22	ng	-0.02
23) Nitrobenzene-d5	7.43	82	3076	0.14	ng	-0.02
42) 2,4,6-Tribromophenol	10.70	330	841	0.12	ng	-0.01
45) 2-Fluorobiphenyl	9.23	172	7129	0.19	ng	-0.01
79) Terphenyl-d14	12.98	244	9330	0.26	ng	-0.01

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
31) Naphthalene	8.19	128	3308454	59.623	ng	99
37) 2-Methylnaphthalene	8.87	142	576090	14.708	ng	97
38) 1-Methylnaphthalene	8.97	142	331305	8.903	ng	97
46) 1,1'-Biphenyl	9.33	154	138966	3.254	ng	94
49) Acenaphthylene	9.77	152	260840	5.151	ng	96
52) Acenaphthene	9.95	154	167082	4.934	ng	97
55) Dibenzofuran	10.12	168	406125	8.654	ng	91
58) Fluorene	10.46	166	509272	13.824	ng	99
71) Phenanthrene	11.43	178	1817165	39.796	ng	95
72) Anthracene	11.47	178	484109	10.715	ng	92
73) Carbazole	11.62	167	164333	3.965	ng	94
75) Fluoranthene	12.61	202	1106796	22.982	ng	96
78) Pyrene	12.84	202	955660	18.240	ng	93
81) Benzo(a)anthracene	14.03	228	460771m	9.925	ng	
83) Chrysene	14.06	228	389602	8.757	ng	95
86) Indeno(1,2,3-cd)pyrene	16.97	276	170917	4.421	ng	97
88) Benzo(b)fluoranthene	15.07	252	429417m	7.196	ng	
89) Benzo(k)fluoranthene	15.10	252	169567m	3.067	ng	
90) Benzo(a)pyrene	15.44	252	378946	7.362	ng	98
92) Benzo(a,h,i)perylene	17.42	276	157155	3.555	ng	99

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

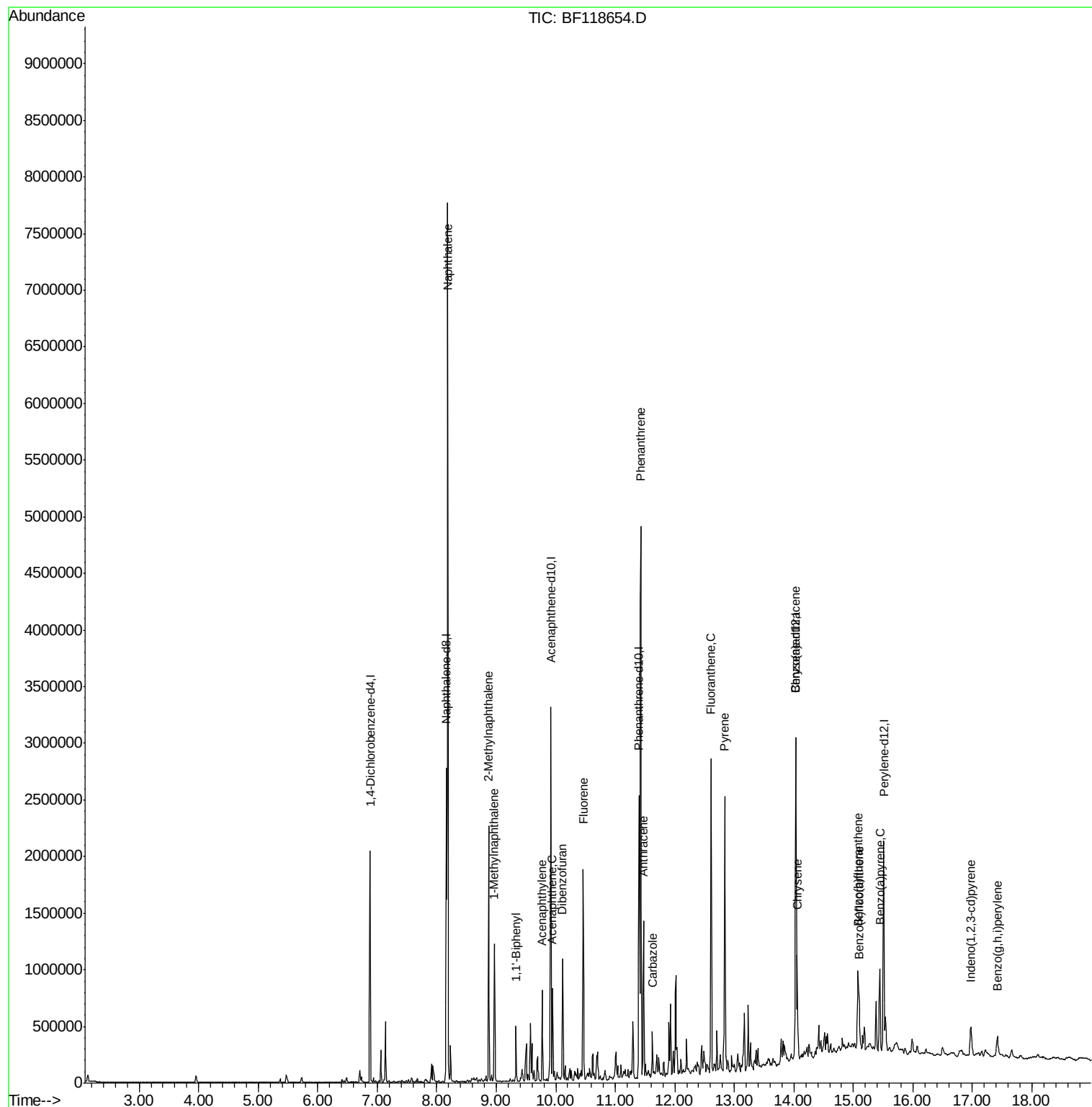
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF012120\
Data File : BF118654.D
Acq On : 22 Jan 2020 1:28
Operator : CG/JU
Sample : L1148-17DL 400X
Misc :
ALS Vial : 24 Sample Multiplier: 1

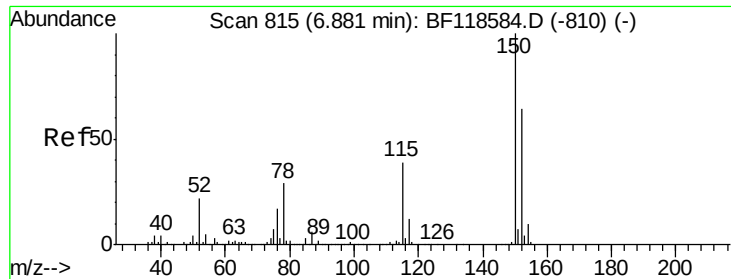
Instrument :
BNA_F
ClientSampleId :
SB-44-(2-4)DL

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Quant Time: Jan 22 06:04:43 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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Response via : Initial Calibration





#1

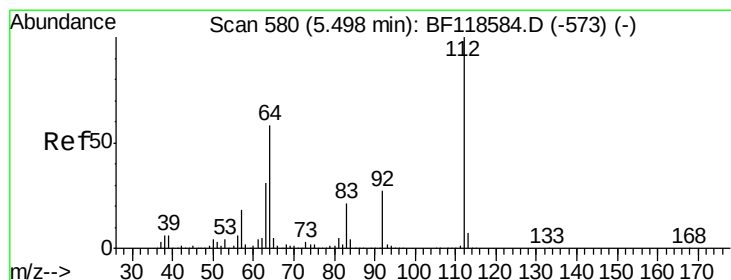
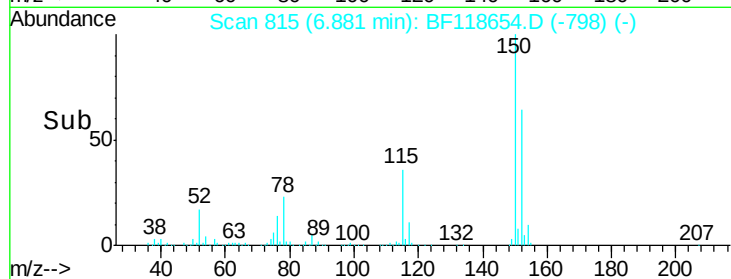
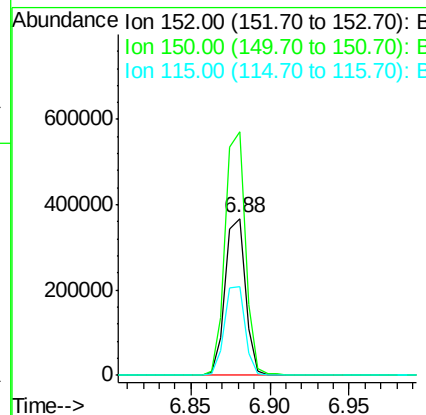
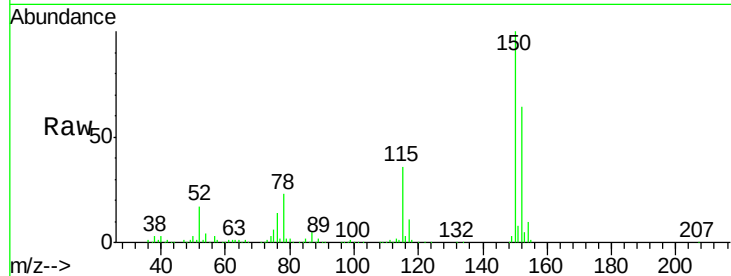
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.88 min Scan# 815
Delta R.T. 0.00 min
Lab File: BF118654.D
Acq: 22 Jan 2020 1:28

Instrument :
BNA_F
ClientSampleId :
SB-44-(2-4)DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	155.3	125.6	188.4
115	56.3	48.4	72.6

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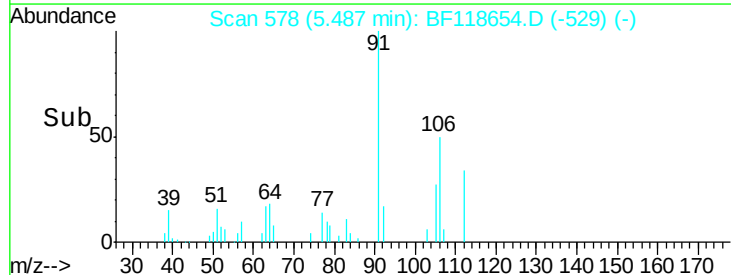
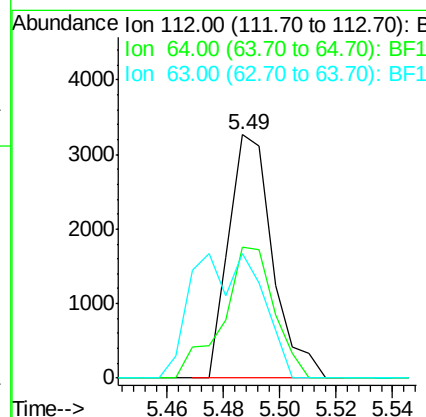
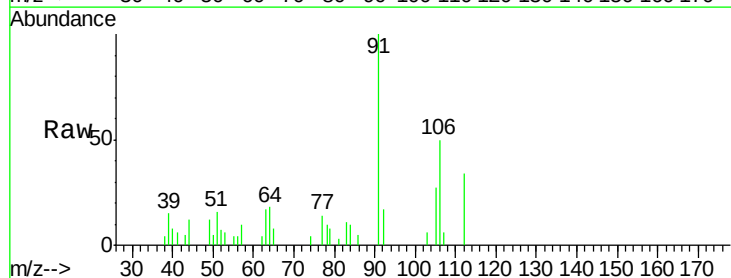
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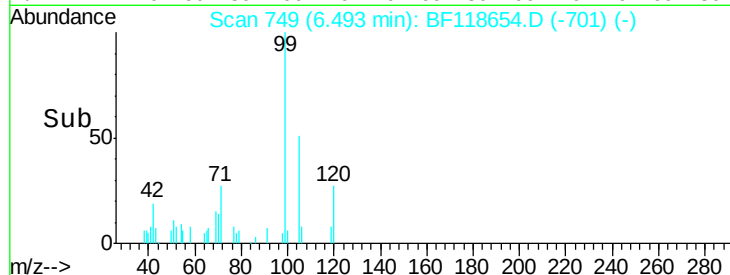
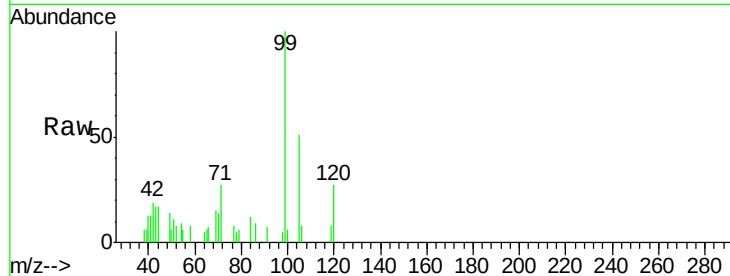
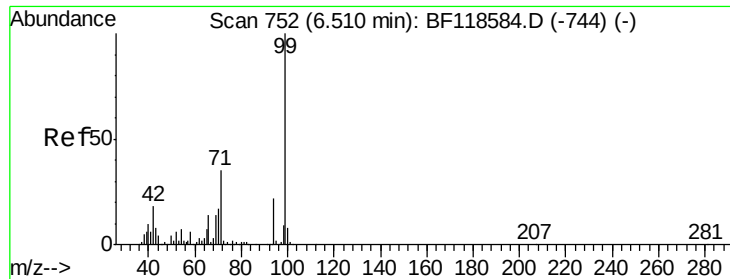


#5

2-Fluorophenol
Concen: 0.198 ng
RT: 5.49 min Scan# 578
Delta R.T. -0.01 min
Lab File: BF118654.D
Acq: 22 Jan 2020 1:28

Tgt Ion	Ratio	Lower	Upper
112	100		
64	53.9	46.6	70.0
63	51.2	25.1	37.7





#7

Phenol-d6

Concen: 0.224 ng

RT: 6.49 min Scan# 749

Delta R.T. -0.02 min

Lab File: BF118654.D

Acq: 22 Jan 2020 1:28

Tot Ion	Ion	Ratio	Resp	Lower	Upper
99	100		5163		
42	19.4	14.2	21.2		
71	26.8	27.8	41.6#		

Instrument :

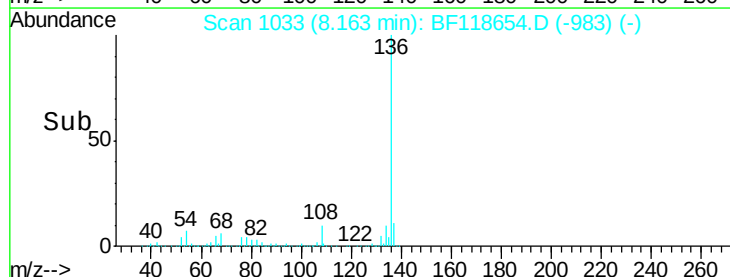
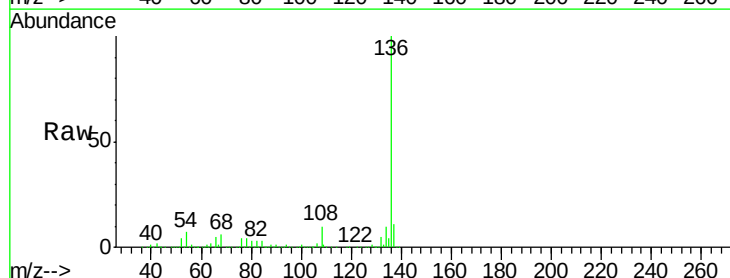
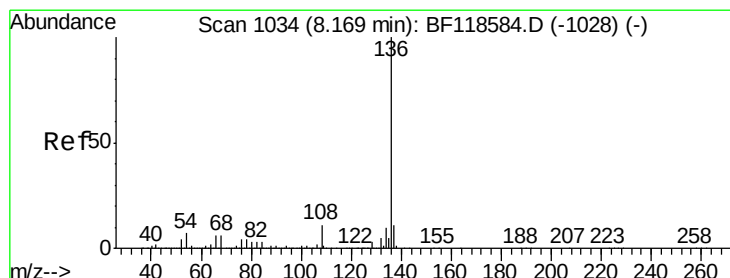
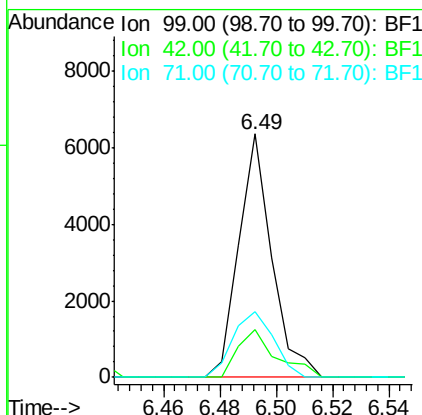
BNA_F

ClientSampleId :

SB-44-(2-4)DL

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#21

Naphthalene-d8

Concen: 20.000 ng

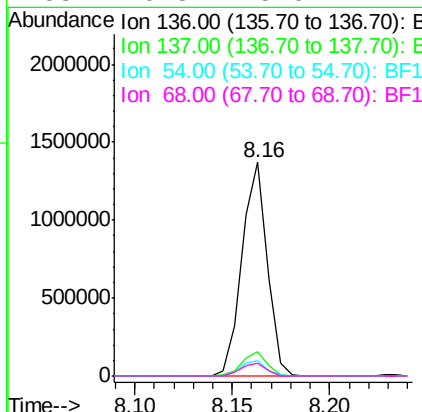
RT: 8.16 min Scan# 1033

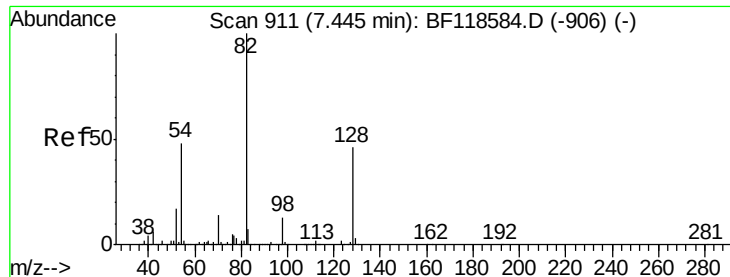
Delta R.T. -0.01 min

Lab File: BF118654.D

Acq: 22 Jan 2020 1:28

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
136	100		1228375		
137	11.2	9.1	13.7		
54	7.0	5.8	8.6		
68	6.3	5.0	7.4		





#23

Nitrobenzene-d5

Concen: 0.140 ng

RT: 7.43 min Scan# 908

Delta R.T. -0.02 min

Lab File: BF118654.D

Acq: 22 Jan 2020 1:28

Instrument :

BNA_F

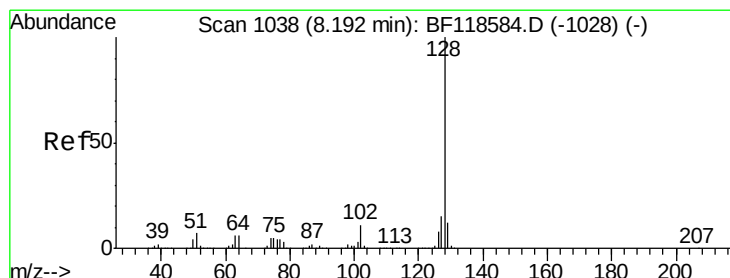
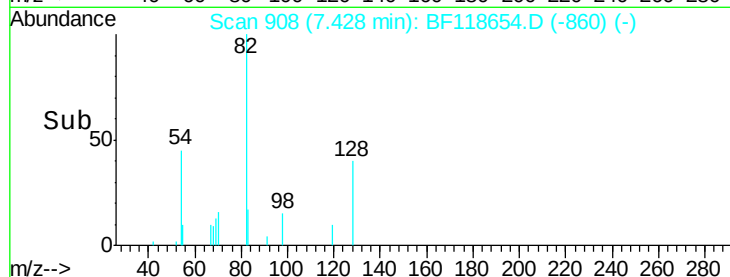
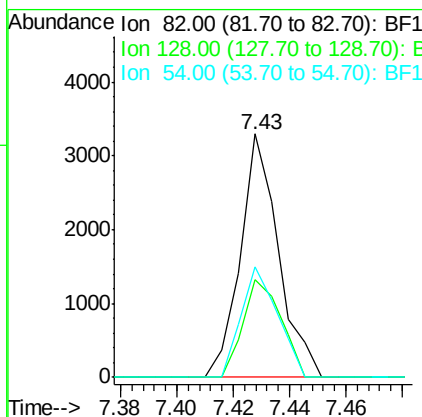
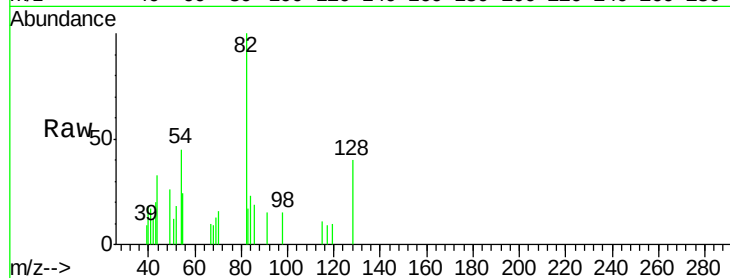
ClientSampleId :

SB-44-(2-4)DL

Tot Ion:	82	Resp:	3076
Ion	Ratio	Lower	Upper
82	100		
128	39.9	36.6	54.8
54	45.1	38.0	57.0

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#31

Naphthalene

Concen: 59.623 ng

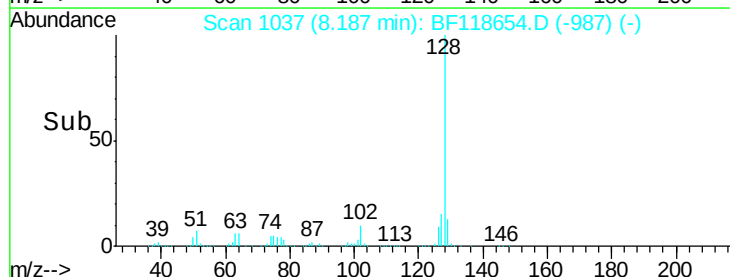
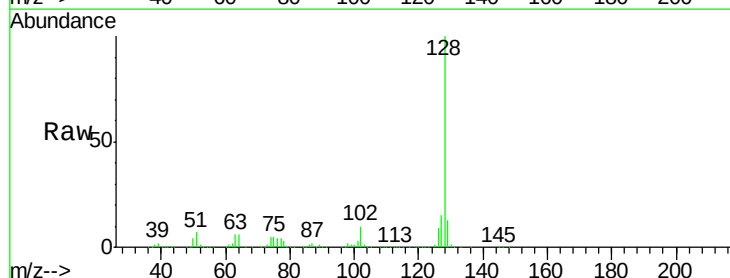
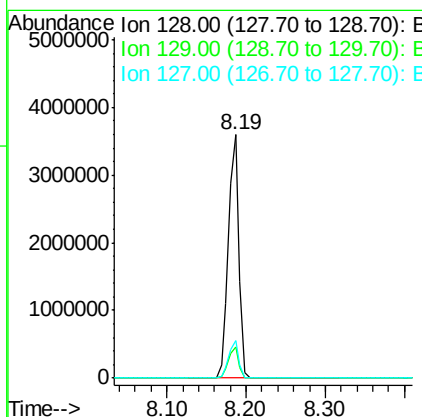
RT: 8.19 min Scan# 1037

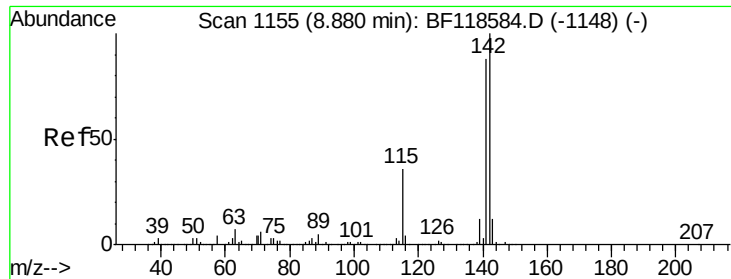
Delta R.T. -0.01 min

Lab File: BF118654.D

Acq: 22 Jan 2020 1:28

Tgt Ion:	128	Resp:	3308454
Ion	Ratio	Lower	Upper
128	100		
129	12.9	9.9	14.9
127	15.3	12.0	18.0





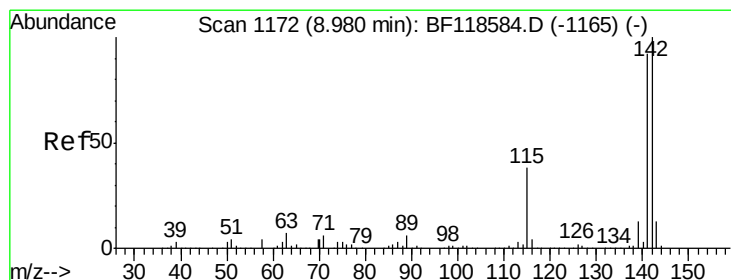
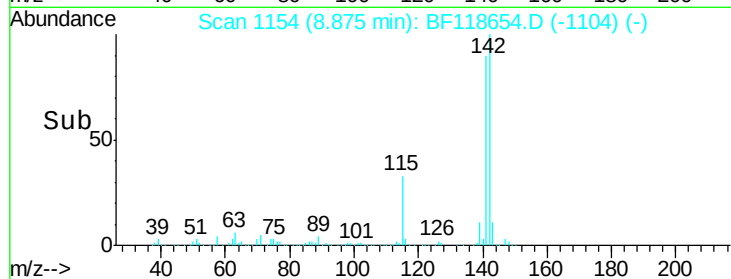
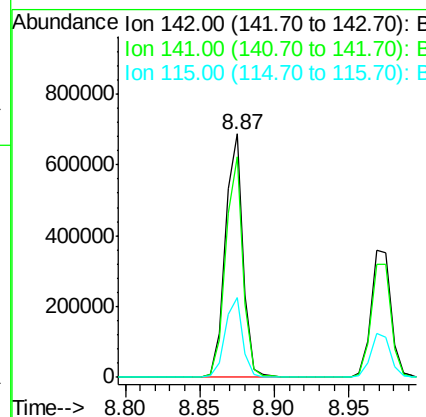
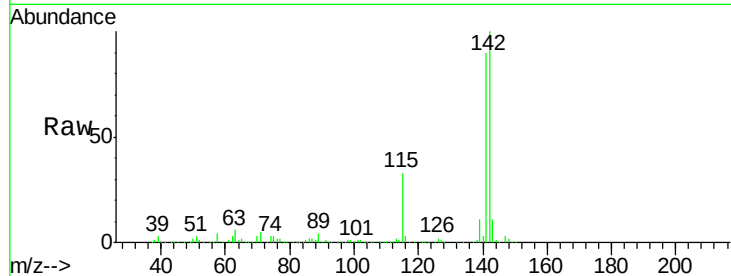
#37
2-Methylnaphthalene
Concen: 14.708 ng
RT: 8.87 min Scan# 1154
Delta R.T. -0.01 min
Lab File: BF118654.D
Acq: 22 Jan 2020 1:28

Instrument :
BNA_F
ClientSampleId :
SB-44-(2-4)DL

Tot Ion	Ratio	Lower	Upper
142	100		
141	90.4	70.7	106.1
115	32.7	28.5	42.7

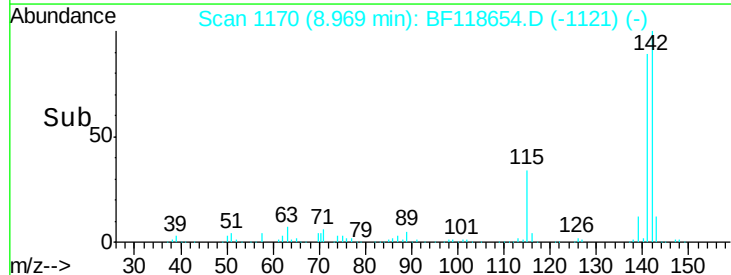
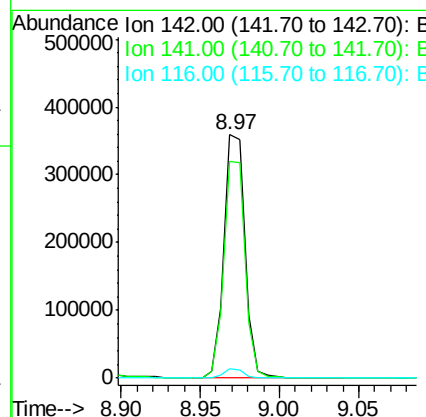
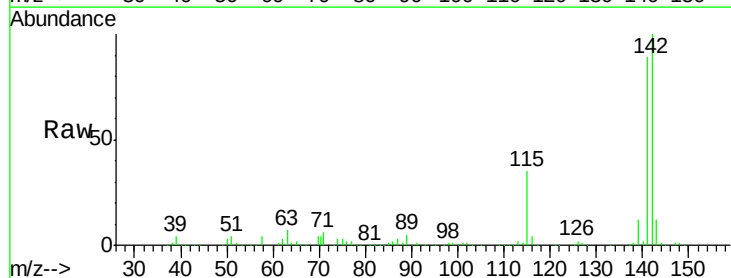
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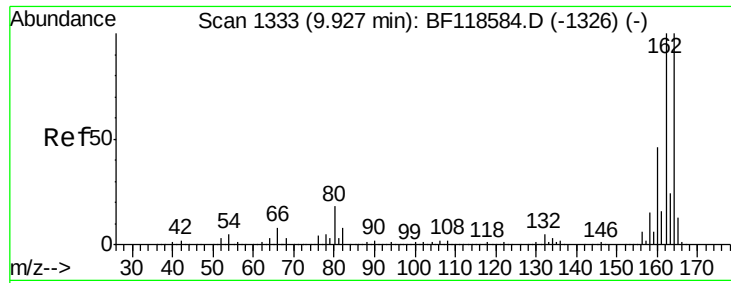
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#38
1-Methylnaphthalene
Concen: 8.903 ng
RT: 8.97 min Scan# 1170
Delta R.T. -0.01 min
Lab File: BF118654.D
Acq: 22 Jan 2020 1:28

Tgt Ion	Ratio	Lower	Upper
142	100		
141	88.8	73.4	110.2
116	3.7	3.3	4.9





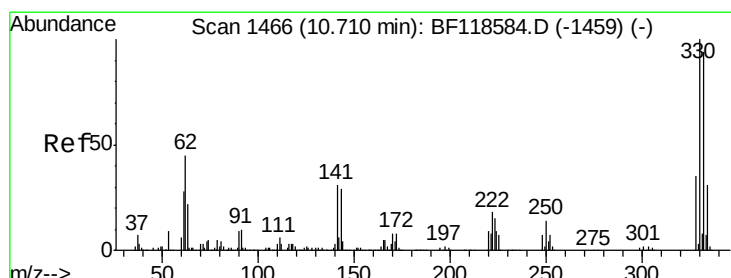
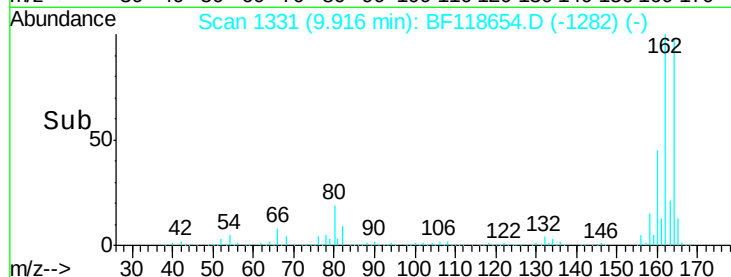
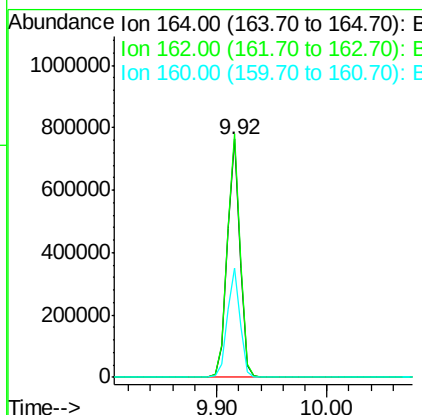
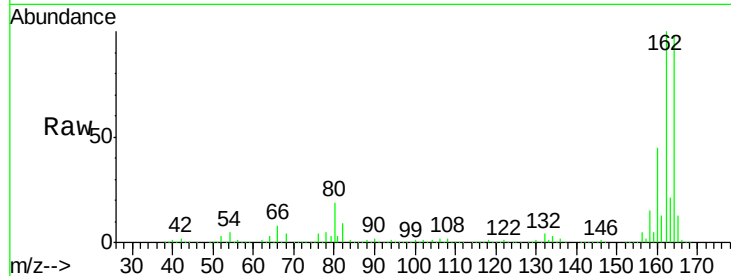
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.92 min Scan# 1331
Delta R.T. -0.01 min
Lab File: BF118654.D
Acq: 22 Jan 2020 1:28

Instrument :
BNA_F
ClientSampleId :
SB-44-(2-4)DL

Tot Ion	Ratio	Resp	Lower	Upper
164	100	619690		
162	102.4	80.4	120.6	
160	45.7	36.6	55.0	

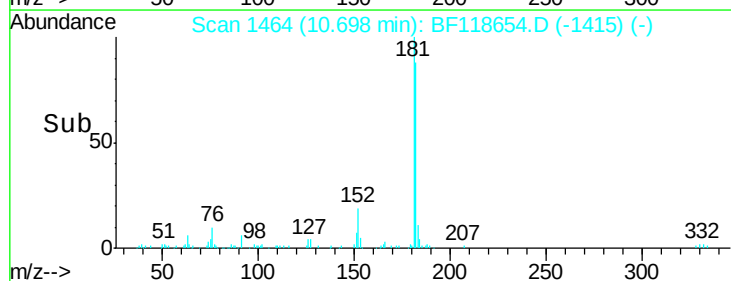
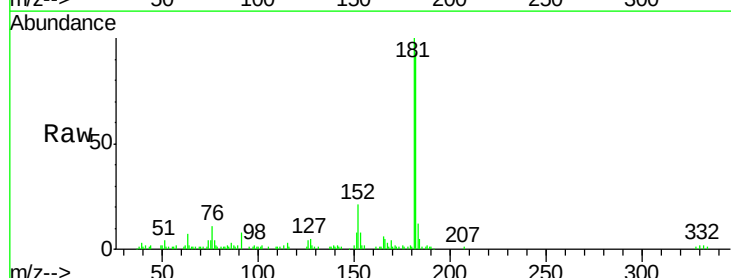
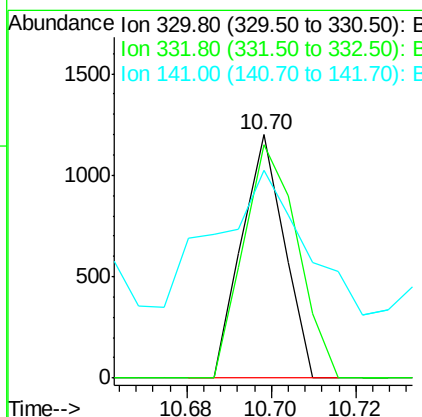
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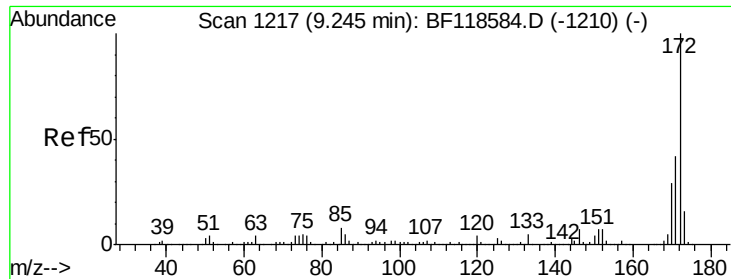
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#42
2,4,6-Tribromophenol
Concen: 0.117 ng
RT: 10.70 min Scan# 1464
Delta R.T. -0.01 min
Lab File: BF118654.D
Acq: 22 Jan 2020 1:28

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	841		
332	122.1	76.2	114.4#	
141	121.4	23.9	35.9#	





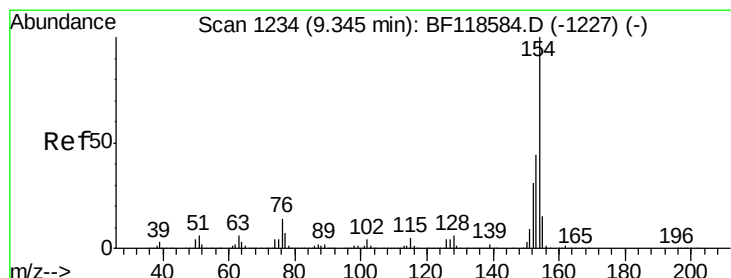
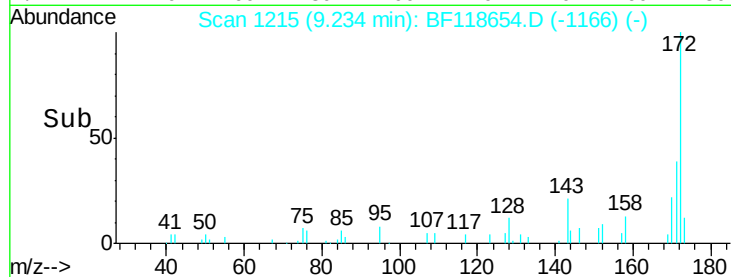
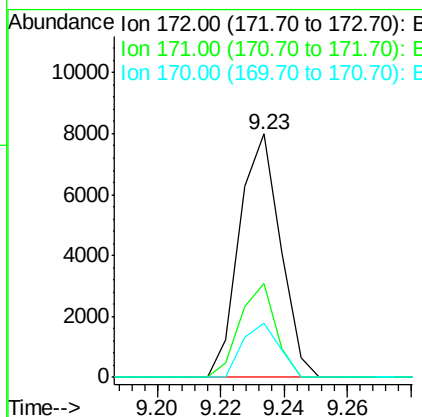
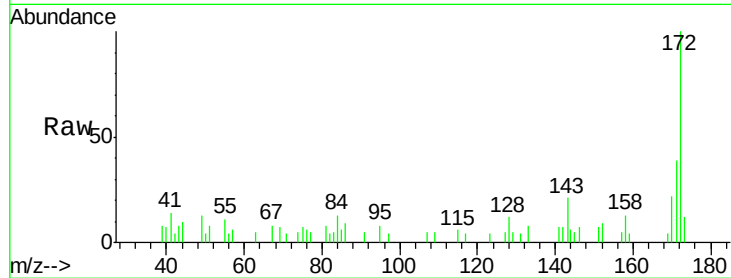
#45
2-Fluorobiphenyl
Concen: 0.189 ng
RT: 9.23 min Scan# 1215
Delta R.T. -0.01 min
Lab File: BF118654.D
Acq: 22 Jan 2020 1:28

Instrument :
BNA_F
ClientSampleId :
SB-44-(2-4)DL

Tot Ion	Ratio	Lower	Upper
172	100		
171	38.6	33.4	50.2
170	22.4	23.2	34.8

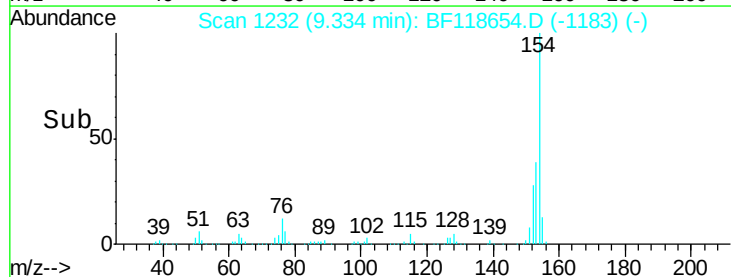
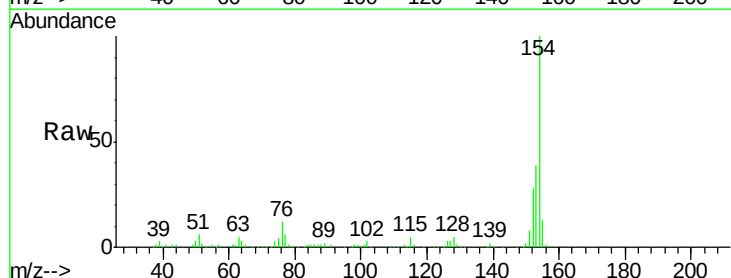
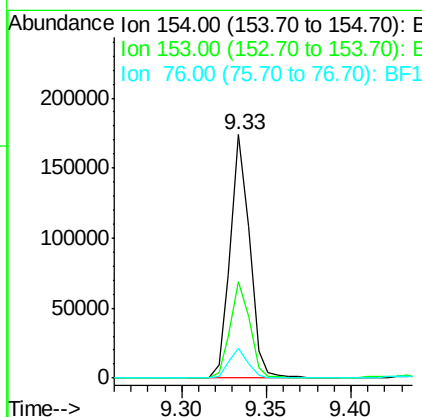
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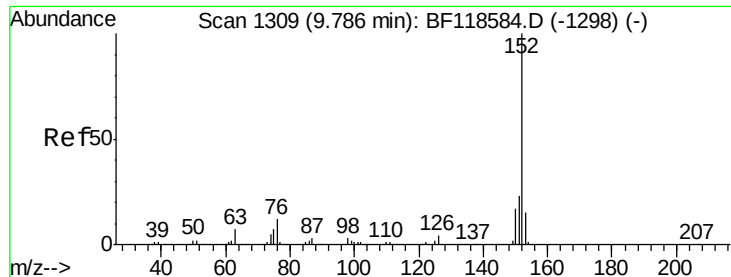
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#46
1,1'-Biphenyl
Concen: 3.254 ng
RT: 9.33 min Scan# 1232
Delta R.T. -0.01 min
Lab File: BF118654.D
Acq: 22 Jan 2020 1:28

Tgt Ion	Ratio	Lower	Upper
154	100		
153	39.5	23.8	63.8
76	12.1	0.0	34.3





#49

Acenaphthylene

Concen: 5.151 ng

RT: 9.77 min Scan# 1307

Delta R.T. -0.01 min

Lab File: BF118654.D

Acq: 22 Jan 2020 1:28

Instrument :

BNA_F

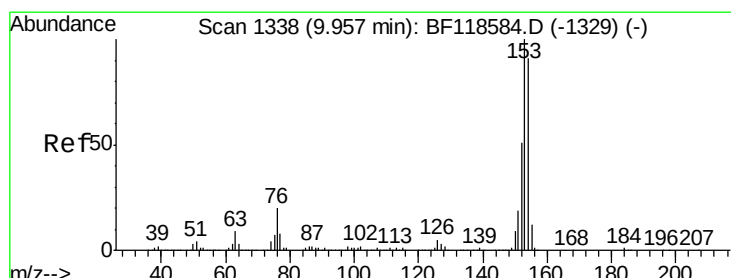
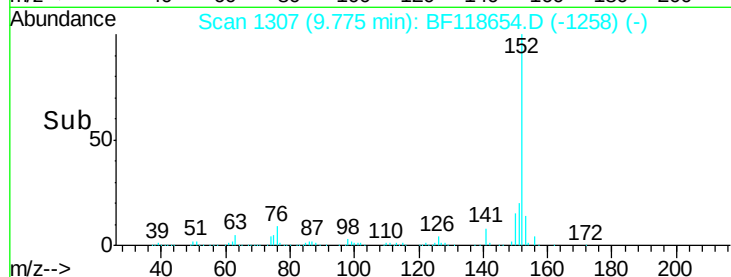
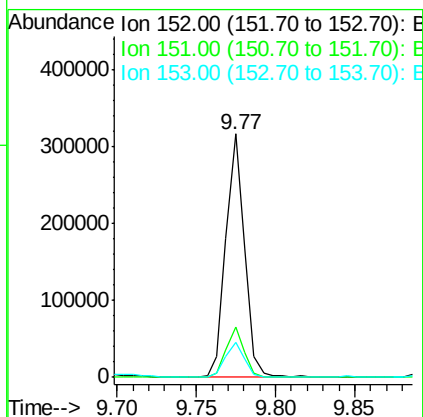
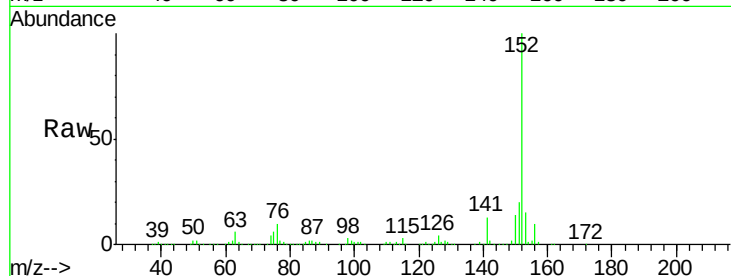
ClientSampleId :

SB-44-(2-4)DL

Tot Ion:	152	Resp:	260840
Ion Ratio	Lower	Upper	
152	100		
151	20.5	18.6	27.8
153	14.5	12.2	18.4

Manual Integrations
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#52

Acenaphthene

Concen: 4.934 ng

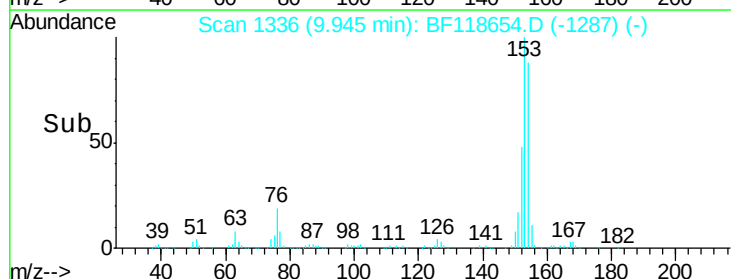
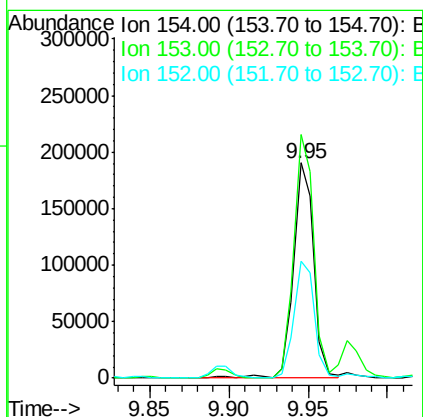
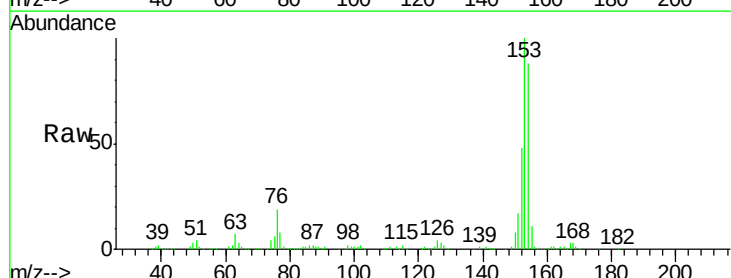
RT: 9.95 min Scan# 1336

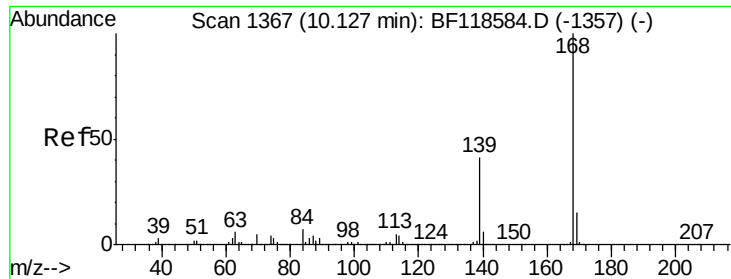
Delta R.T. -0.01 min

Lab File: BF118654.D

Acq: 22 Jan 2020 1:28

Tgt Ion:	154	Resp:	167082
Ion Ratio	Lower	Upper	
154	100		
153	113.3	87.6	131.4
152	54.5	44.4	66.6





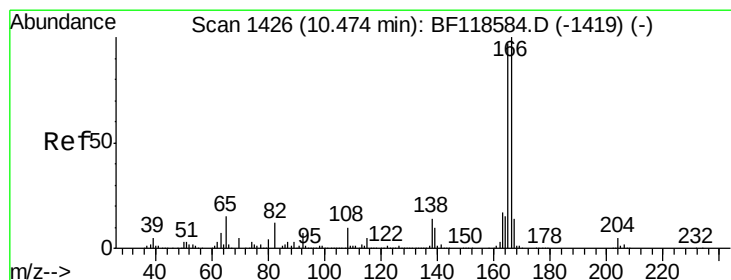
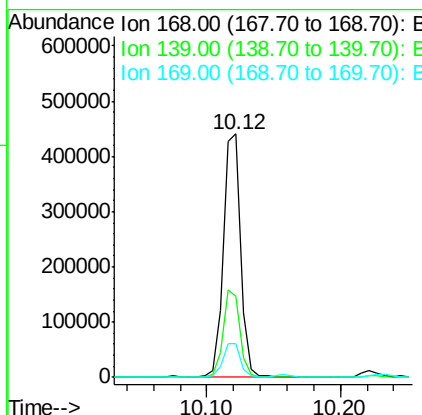
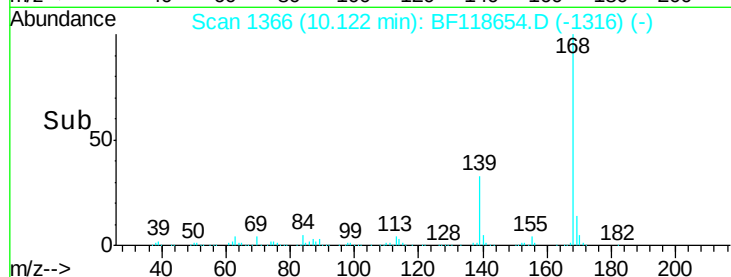
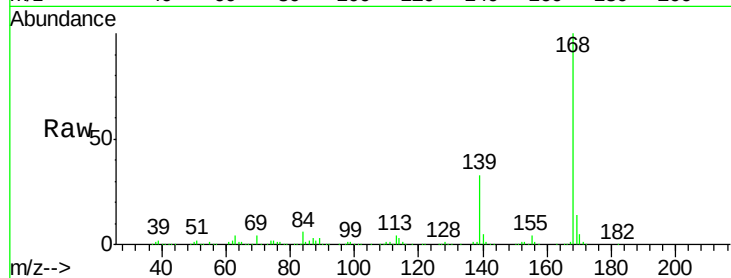
#55
Dibenzenofuran
Concen: 8.654 ng
RT: 10.12 min Scan# 1366
Delta R.T. -0.01 min
Lab File: BF118654.D
Acq: 22 Jan 2020 1:28

Instrument :
BNA_F
ClientSampleId :
SB-44-(2-4)DL

Tot Ion	Ratio	Lower	Upper
168	100		
139	33.5	32.7	49.1
169	14.0	12.2	18.2

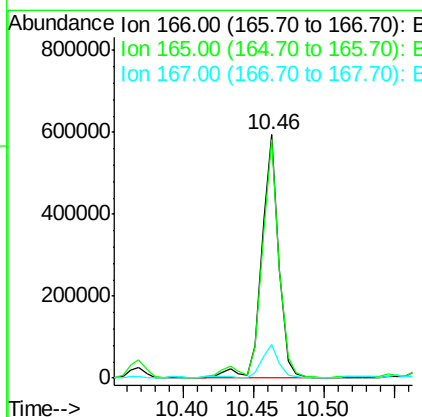
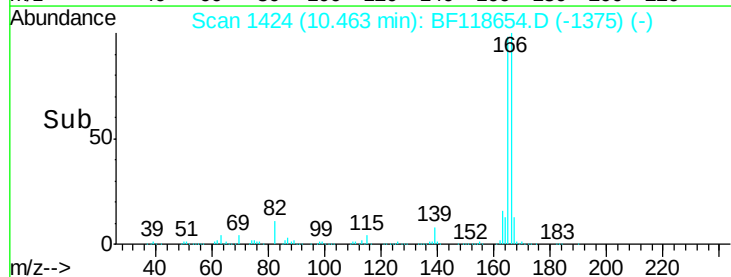
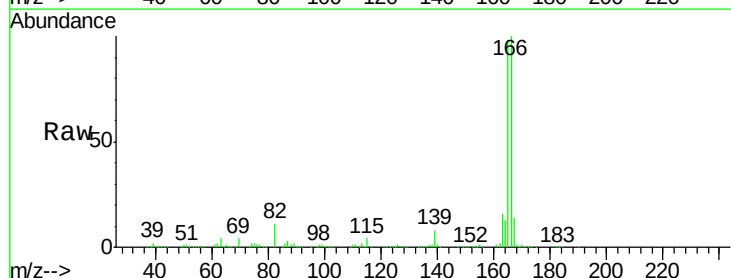
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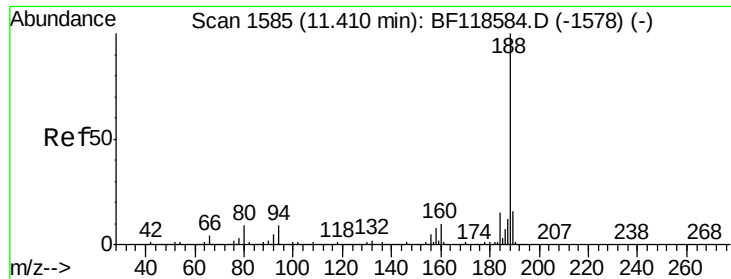
mohammad
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#58
Fluorene
Concen: 13.824 ng
RT: 10.46 min Scan# 1424
Delta R.T. -0.01 min
Lab File: BF118654.D
Acq: 22 Jan 2020 1:28

Tgt Ion	Ratio	Lower	Upper
166	100		
165	97.9	77.3	115.9
167	13.6	11.5	17.3





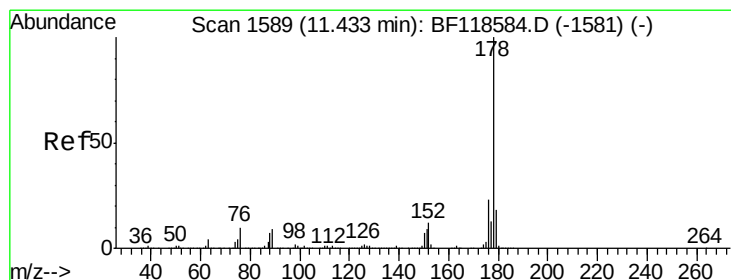
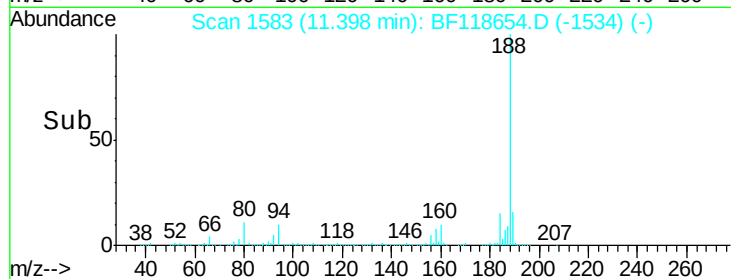
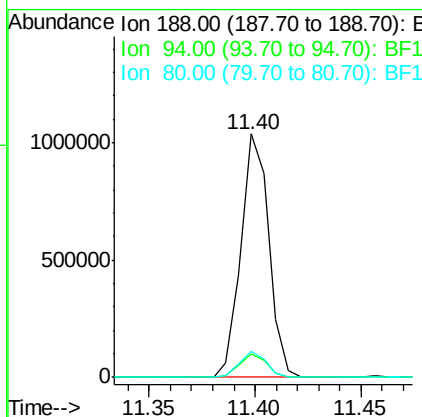
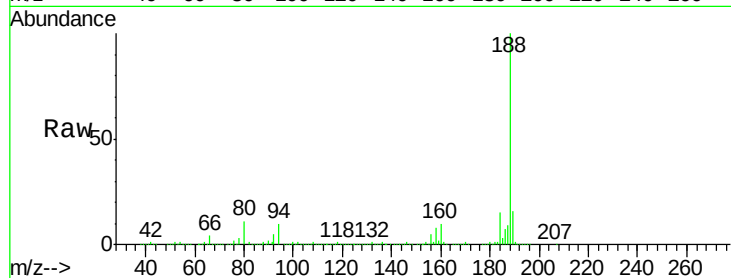
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.40 min Scan# 1583
Delta R.T. -0.01 min
Lab File: BF118654.D
Acq: 22 Jan 2020 1:28

Instrument :
BNA_F
ClientSampleId :
SB-44-(2-4)DL

Tot Ion	Ratio	Resp	Lower	Upper
188	100	946470		
94	9.7		7.1	10.7
80	10.7		7.5	11.3

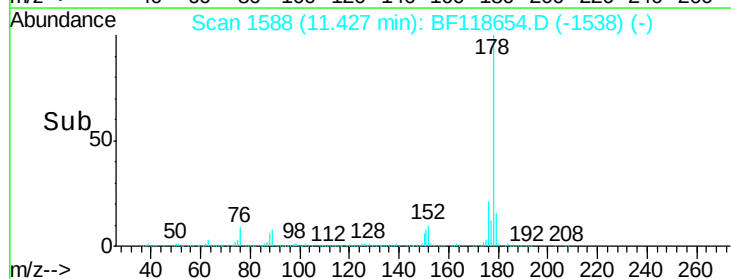
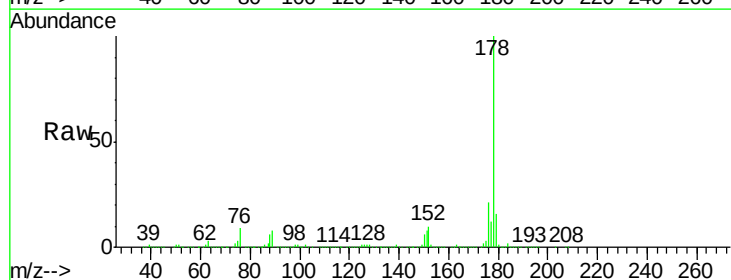
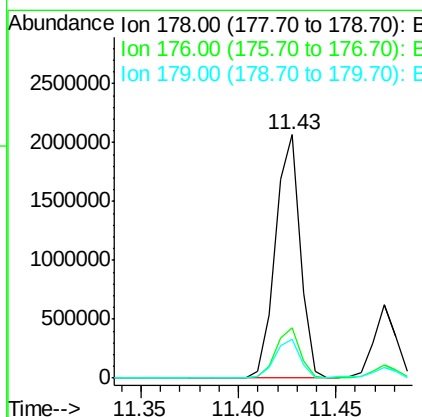
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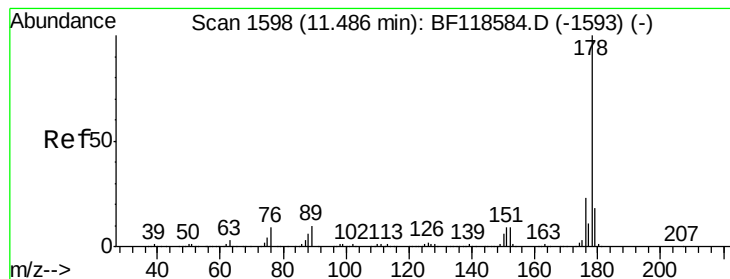
mohammad
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#71
Phenanthrene
Concen: 39.796 ng
RT: 11.43 min Scan# 1588
Delta R.T. -0.01 min
Lab File: BF118654.D
Acq: 22 Jan 2020 1:28

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	1817165		
176	20.6		18.6	27.8
179	16.2		14.7	22.1





#72

Anthracene

Concen: 10.715 ng

RT: 11.47 min Scan# 1596

Delta R.T. -0.01 min

Lab File: BF118654.D

Acq: 22 Jan 2020 1:28

Instrument :

BNA_F

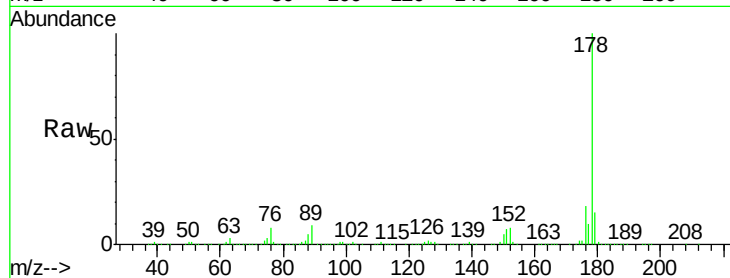
ClientSampleId :

SB-44-(2-4)DL

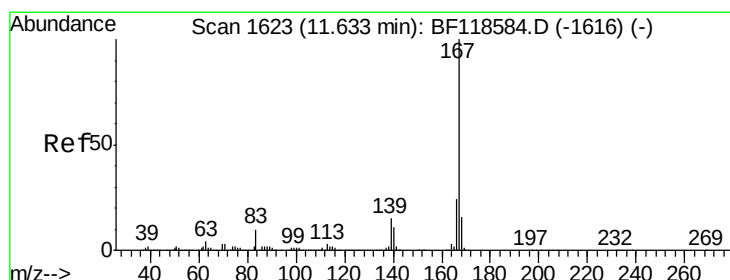
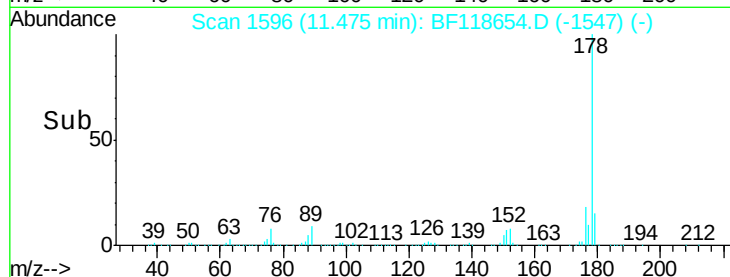
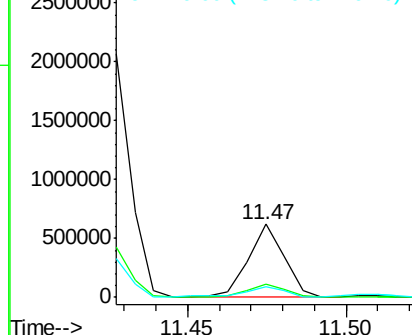
Tot Ion:	178	Resp:	484109
Ion Ratio	Lower	Upper	
178	100		
176	18.3	18.0	27.0
179	15.4	14.7	22.1

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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



#73

Carbazole

Concen: 3.965 ng

RT: 11.62 min Scan# 1621

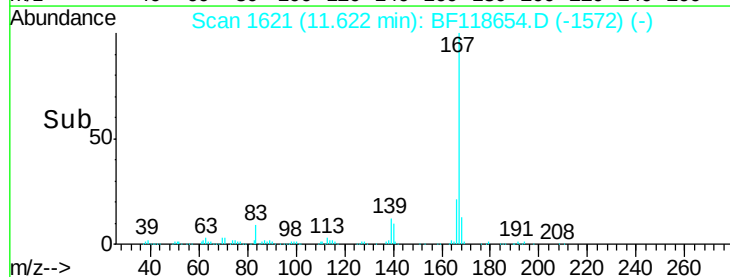
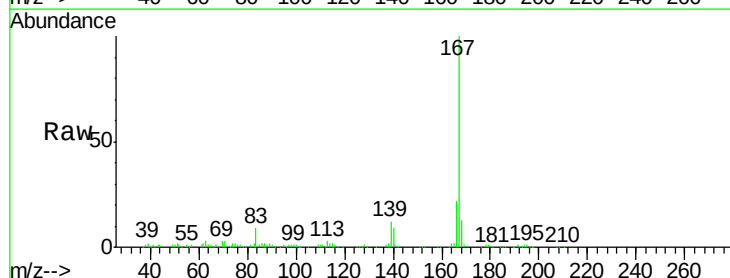
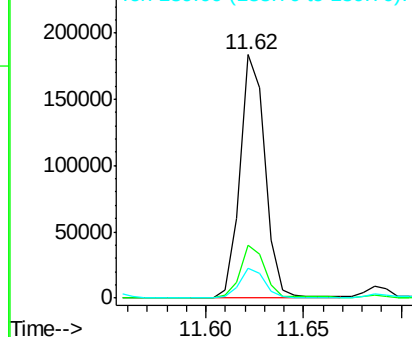
Delta R.T. -0.01 min

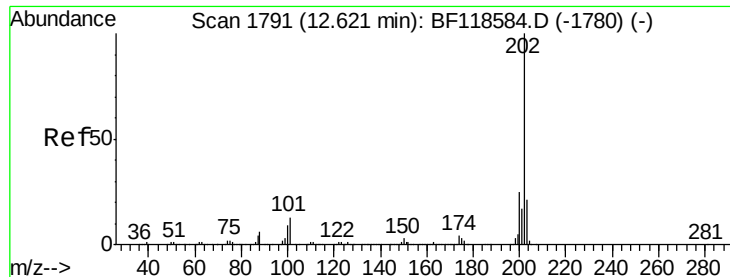
Lab File: BF118654.D

Acq: 22 Jan 2020 1:28

Tgt Ion:	167	Resp:	164333
Ion Ratio	Lower	Upper	
167	100		
166	21.5	19.4	29.2
139	12.1	11.7	17.5

Abundance Ion 167.00 (166.70 to 167.70): E
Ion 166.00 (165.70 to 166.70): E
Ion 139.00 (138.70 to 139.70): E





#75

Fluoranthene

Concen: 22.982 ng

RT: 12.61 min Scan# 1789

Delta R.T. -0.01 min

Lab File: BF118654.D

Acq: 22 Jan 2020 1:28

Instrument :

BNA_F

ClientSampleId :

SB-44-(2-4)DL

Tot Ion:202 Resp: 1106796

Ion Ratio Lower Upper

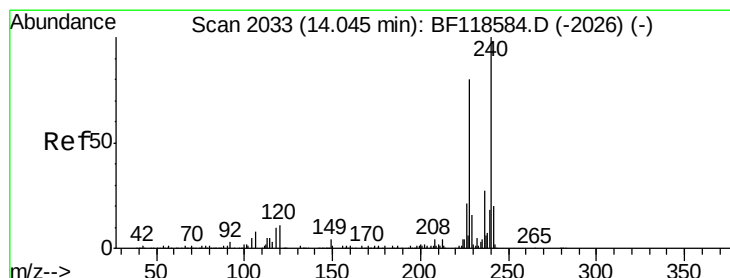
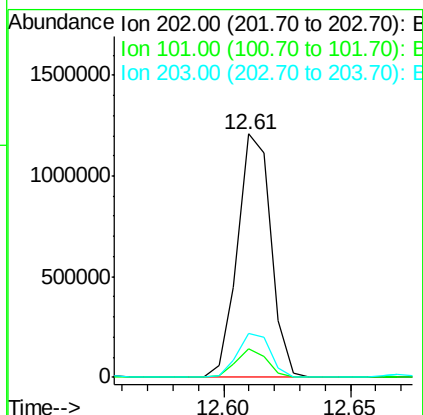
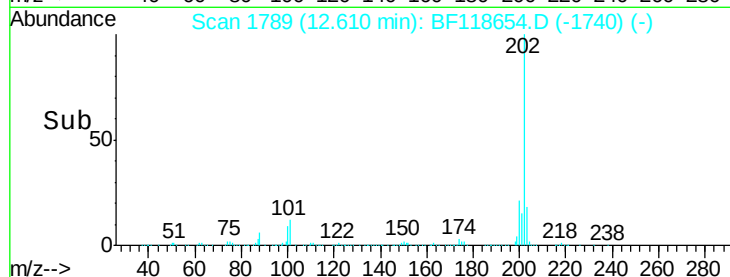
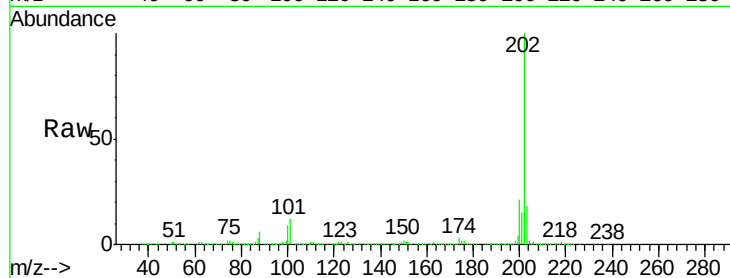
202 100

101 12.0 0.0 32.5

203 18.1 0.8 40.8

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#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.03 min Scan# 2031

Delta R.T. -0.01 min

Lab File: BF118654.D

Acq: 22 Jan 2020 1:28

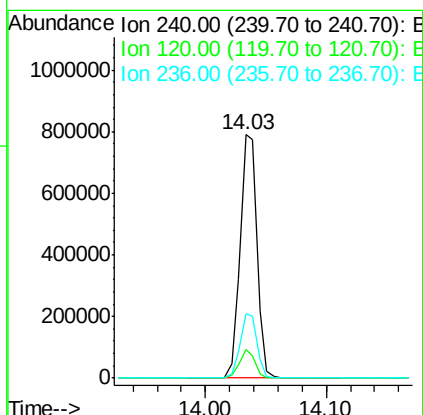
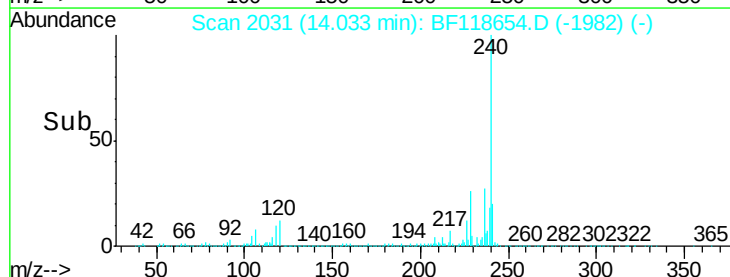
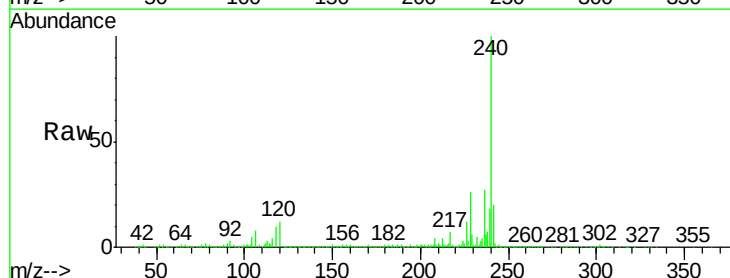
Tgt Ion:240 Resp: 771728

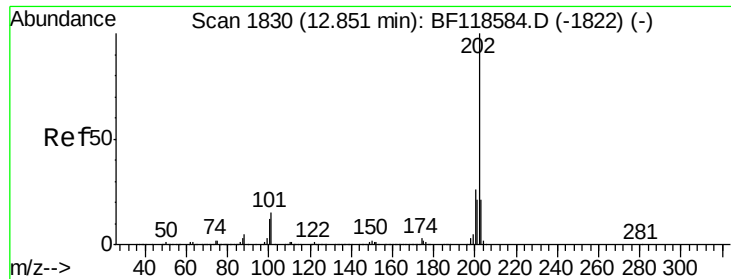
Ion Ratio Lower Upper

240 100

120 11.6 8.9 13.3

236 26.7 21.5 32.3





#78

Pvrene

Concen: 18.240 ng

RT: 12.84 min Scan# 1828

Delta R.T. -0.01 min

Lab File: BF118654.D

Acq: 22 Jan 2020 1:28

Instrument :

BNA_F

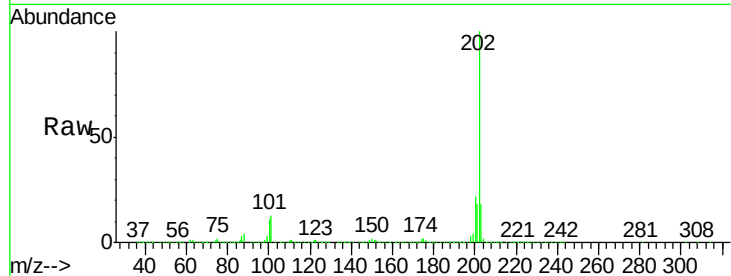
ClientSampleId :

SB-44-(2-4)DL

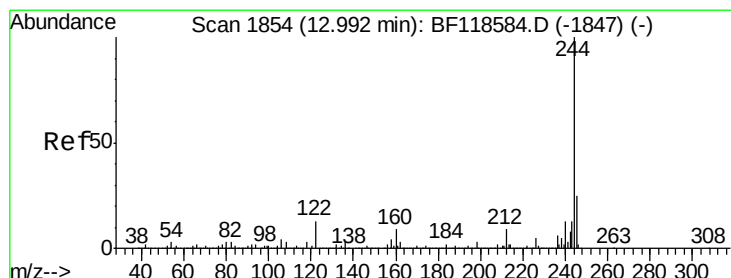
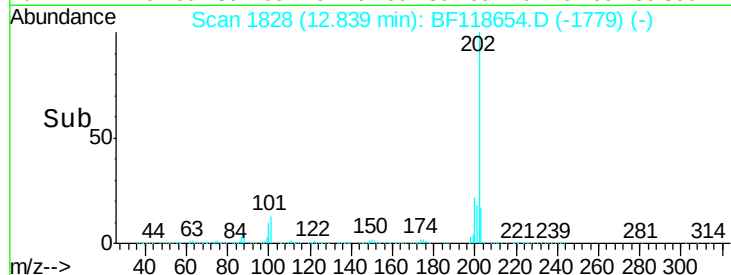
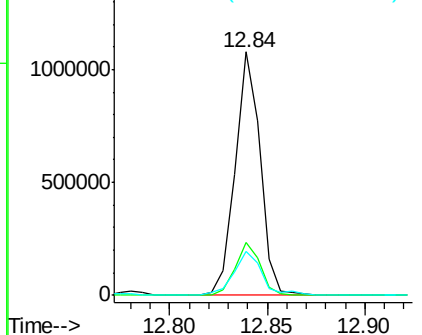
Tot Ion:	202	Resp:	955660
Ion Ratio		Lower	Upper
202	100		
200	21.8	20.6	31.0
203	18.2	16.8	25.2

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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: 0.264 ng

RT: 12.98 min Scan# 1852

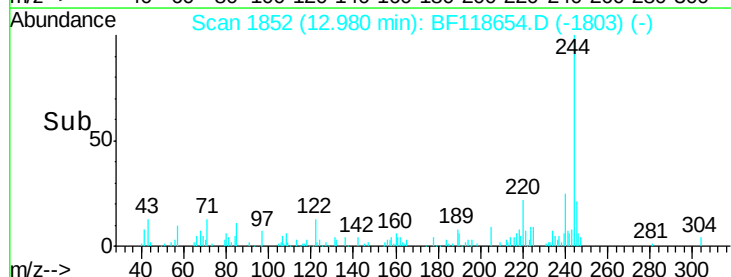
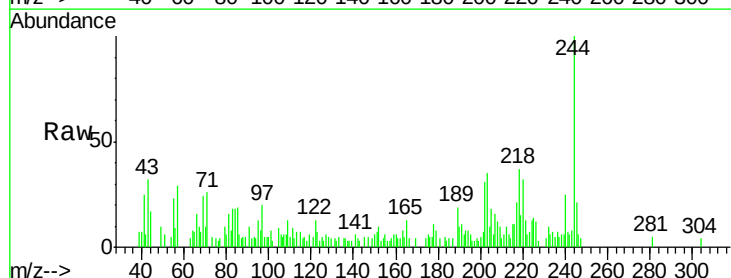
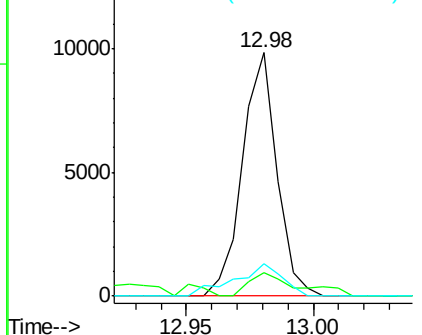
Delta R.T. -0.01 min

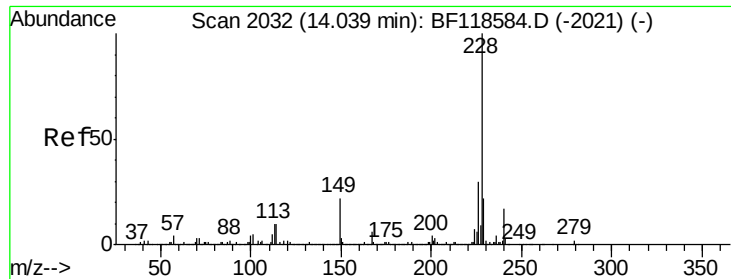
Lab File: BF118654.D

Acq: 22 Jan 2020 1:28

Tgt Ion:	244	Resp:	9330
Ion Ratio		Lower	Upper
244	100		
212	9.7	7.0	10.4
122	13.4	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





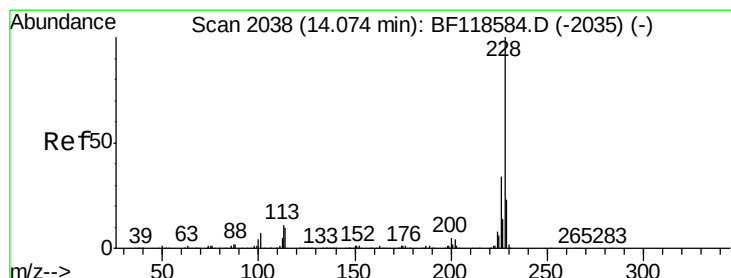
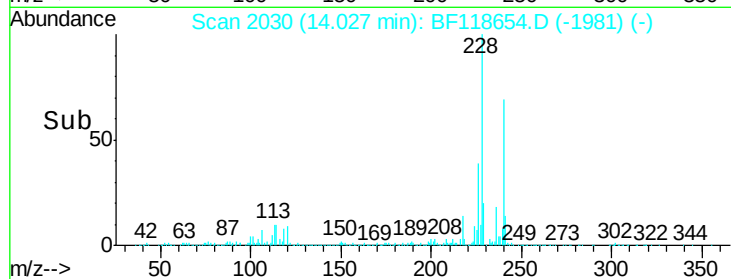
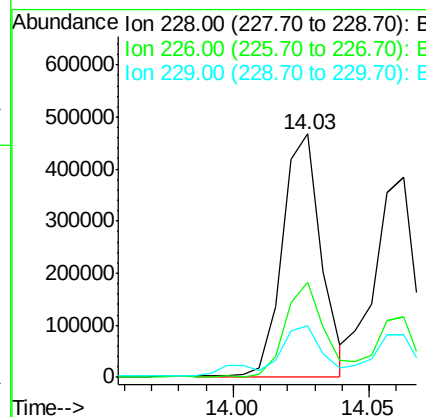
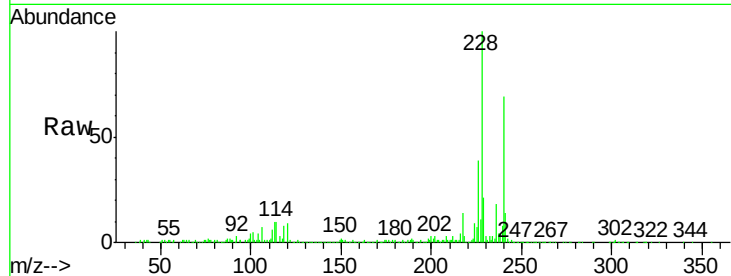
#81
Benzo(a)anthracene
Concen: 9.925 ng m
RT: 14.03 min Scan# 2030
Delta R.T. -0.01 min
Lab File: BF118654.D
Acq: 22 Jan 2020 1:28

Instrument :
BNA_F
ClientSampleId :
SB-44-(2-4)DL

Tot Ion	Ratio	Lower	Upper
228	100		
226	39.3	24.1	36.1#
229	21.2	17.6	26.4

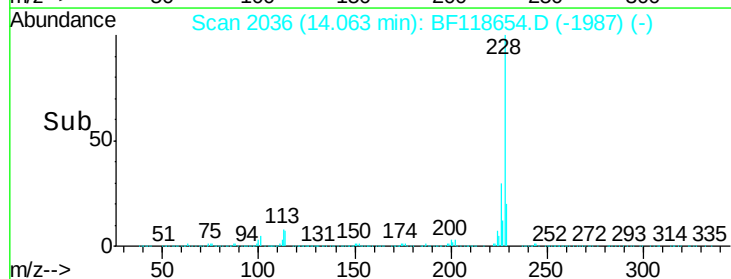
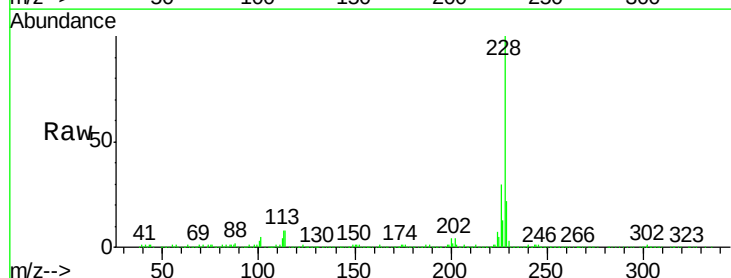
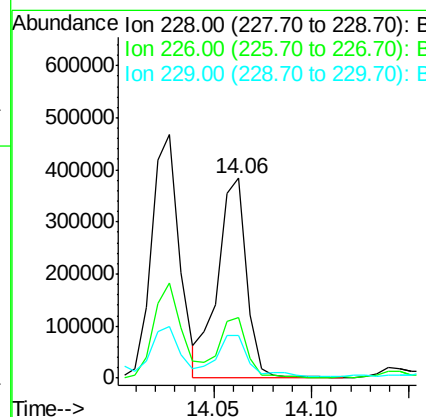
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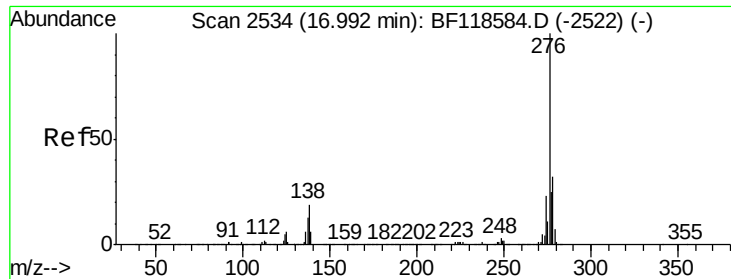
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#83
Chrysene
Concen: 8.757 ng
RT: 14.06 min Scan# 2036
Delta R.T. -0.01 min
Lab File: BF118654.D
Acq: 22 Jan 2020 1:28

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.4	27.4	41.0
229	21.5	18.3	27.5





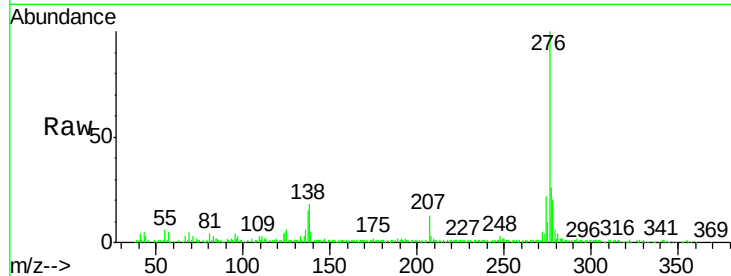
#86
Indeno(1,2,3-cd)pyrene
Concen: 4.421 ng
RT: 16.97 min Scan# 2531
Delta R.T. -0.02 min
Lab File: BF118654.D
Acq: 22 Jan 2020 1:28

Instrument :
BNA_F
ClientSampleId :
SB-44-(2-4)DL

Tot Ion	Ratio	Lower	Upper
276	100		
138	19.6	17.2	25.8
277	26.3	20.5	30.7

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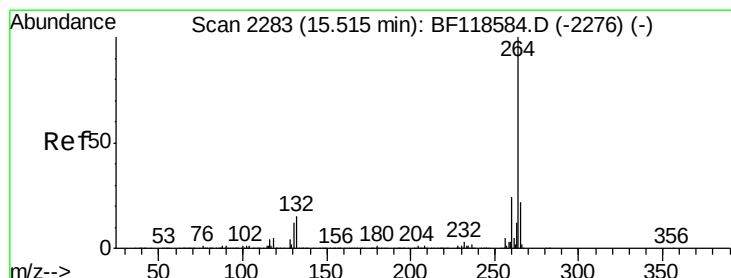
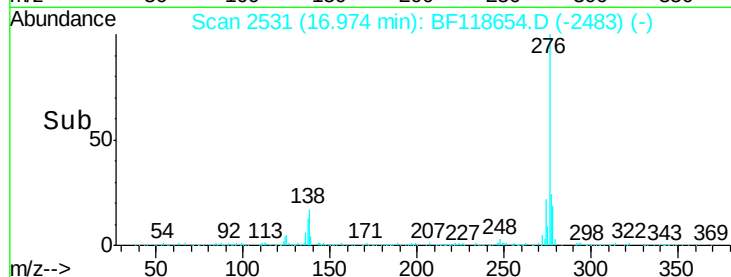
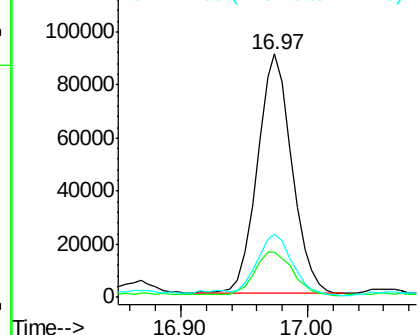


Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#87
Perylene-d12
Concen: 20.000 ng
RT: 15.51 min Scan# 2282
Delta R.T. -0.01 min
Lab File: BF118654.D
Acq: 22 Jan 2020 1:28

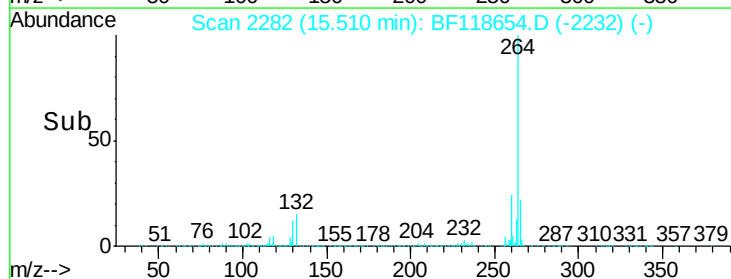
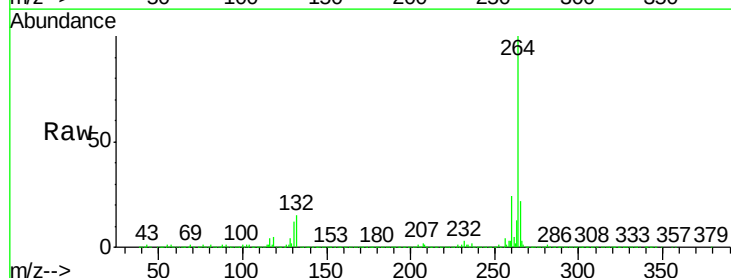
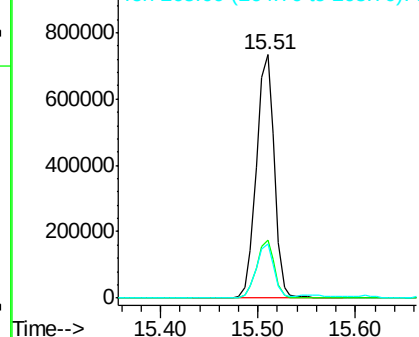
Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.9	19.6	29.4
265	22.4	17.7	26.5

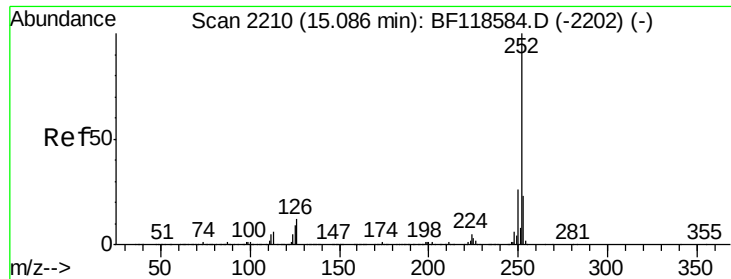
Abundance

Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





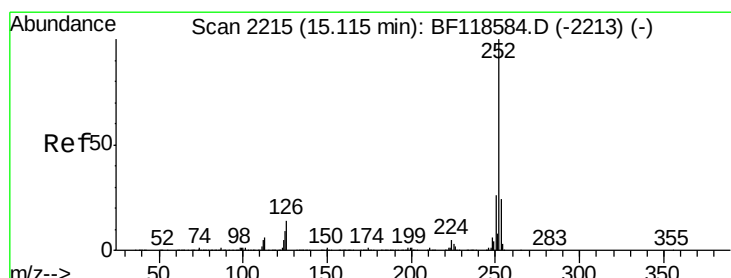
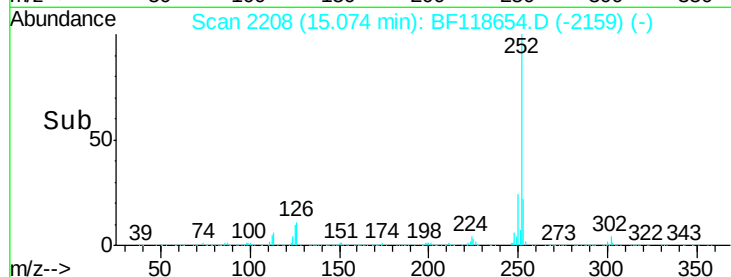
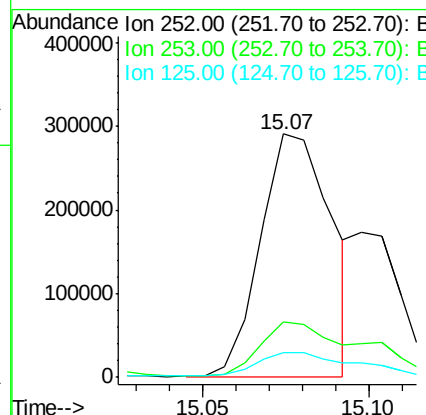
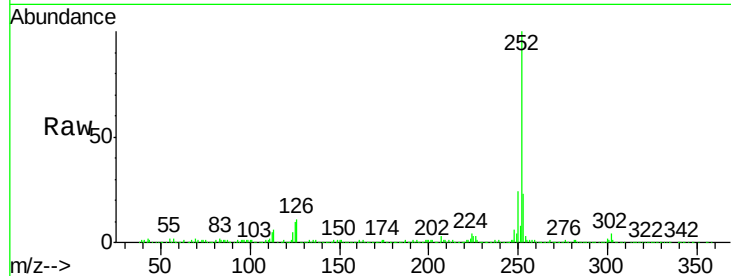
#88
Benzo(b)fluoranthene
Concen: 7.196 ng m
RT: 15.07 min Scan# 2208
Delta R.T. -0.01 min
Lab File: BF118654.D
Acq: 22 Jan 2020 1:28

Instrument :
BNA_F
ClientSampleId :
SB-44-(2-4)DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.0	18.7	28.1
125	10.4	7.3	10.9

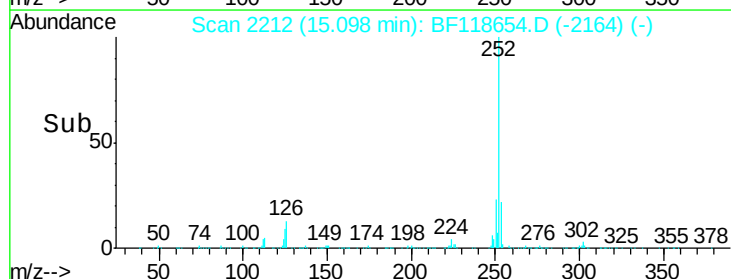
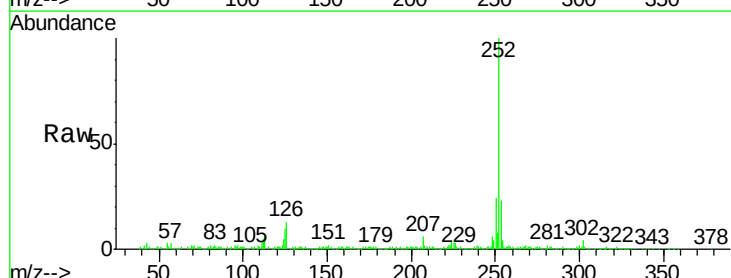
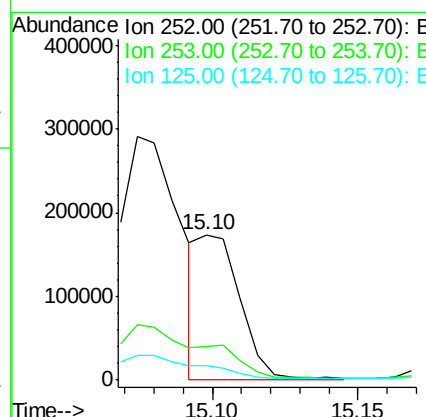
Manual Integrations
APPROVED

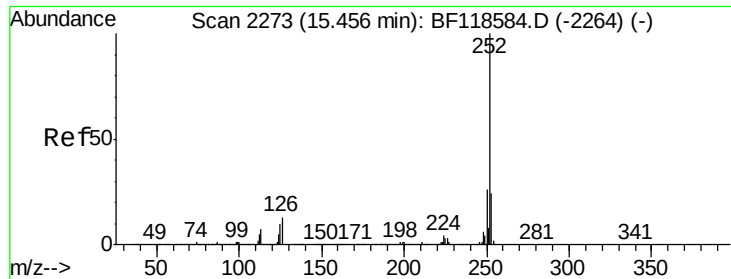
mohammad
1/22/2020 1:36:50 PM



#89
Benzo(k)fluoranthene
Concen: 3.067 ng m
RT: 15.10 min Scan# 2212
Delta R.T. -0.02 min
Lab File: BF118654.D
Acq: 22 Jan 2020 1:28

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.8	19.0	28.4
125	9.8	7.6	11.4





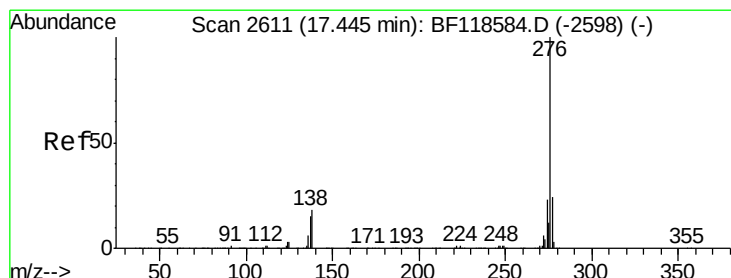
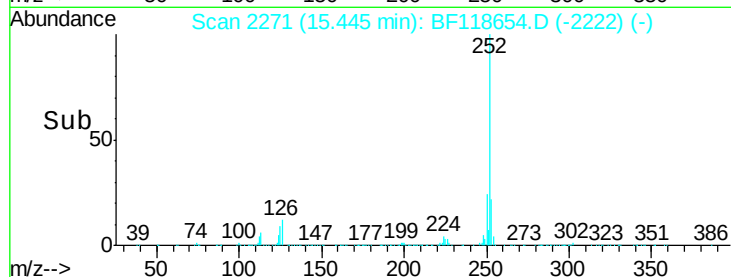
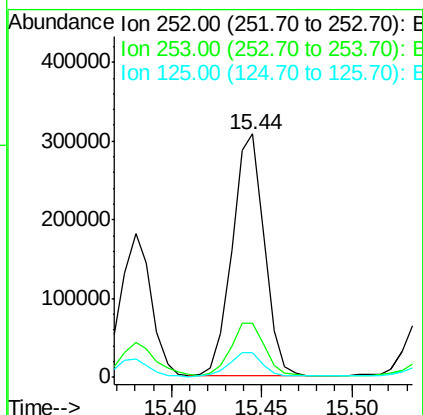
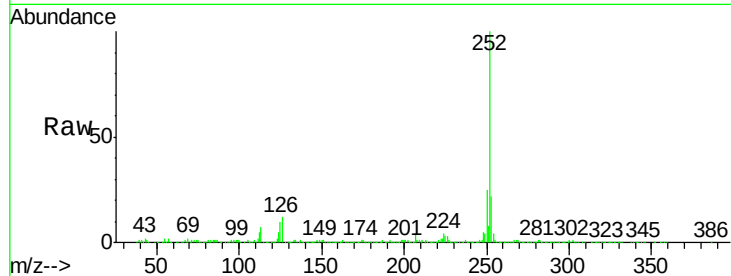
#90
Benzo(a)pyrene
Concen: 7.362 ng
RT: 15.44 min Scan# 2271
Delta R.T. -0.01 min
Lab File: BF118654.D
Acq: 22 Jan 2020 1:28

Instrument :
BNA_F
ClientSampleId :
SB-44-(2-4)DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.4	18.8	28.2
125	10.2	7.8	11.6

Manual Integrations
APPROVED

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#92
Benzo(g,h,i)perylene
Concen: 3.555 ng
RT: 17.42 min Scan# 2607
Delta R.T. -0.02 min
Lab File: BF118654.D
Acq: 22 Jan 2020 1:28

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.9	18.9	28.3
138	18.5	14.4	21.6

