

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF012120\
 Data File : BF118653.D
 Acq On : 22 Jan 2020 1:00
 Operator : CG/JU
 Sample : L1148-16DL 200X
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleID :
 SB-43-(2-4)DL

Manual Integrations
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Quant Time: Jan 22 05:30:03 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	409522	20.00	ng	0.00
21) Naphthalene-d8	8.16	136	1510792	20.00	ng	0.00
39) Acenaphthene-d10	9.92	164	781964	20.00	ng	-0.01
64) Phenanthrene-d10	11.40	188	1193145	20.00	ng	0.00
76) Chrysene-d12	14.04	240	941667	20.00	ng	0.00
87) Perylene-d12	15.51	264	1010805	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.49	112	10639	0.48	ng	-0.01
7) Phenol-d6	6.49	99	15569	0.54	ng	-0.02
23) Nitrobenzene-d5	7.43	82	8661	0.32	ng	-0.02
42) 2,4,6-Tribromophenol	10.70	330	2843	0.31	ng	-0.01
45) 2-Fluorobiphenyl	9.23	172	19576	0.41	ng	-0.01
79) Terphenyl-d14	12.98	244	20615	0.48	ng	-0.01
Target Compounds						
31) Naphthalene	8.19	128	2642342	38.717	ng	99
37) 2-Methylnaphthalene	8.87	142	699800	14.527	ng	98
38) 1-Methylnaphthalene	8.97	142	522775	11.423	ng	100
46) 1,1'-Biphenyl	9.33	154	257243	4.773	ng	95
49) Acenaphthylene	9.77	152	925191	14.478	ng	95
55) Dibenzofuran	10.12	168	191661	3.237	ng	92
58) Fluorene	10.46	166	638910	13.743	ng	99
71) Phenanthrene	11.43	178	3214158	55.838	ng	98
72) Anthracene	11.47	178	805392	14.140	ng	93
75) Fluoranthene	12.62	202	1594285	26.260	ng	94
78) Pyrene	12.84	202	2051769	32.094	ng	94
81) Benzo(a)anthracene	14.03	228	775067m	13.683	ng	
83) Chrysene	14.06	228	757858	13.959	ng	95
86) Indeno(1,2,3-cd)pyrene	16.98	276	276960	5.871	ng	97
88) Benzo(b)fluoranthene	15.08	252	752633m	11.846	ng	
89) Benzo(k)fluoranthene	15.10	252	174819m	2.970	ng	
90) Benzo(a)pyrene	15.44	252	728546	13.293	ng	98
92) Benzo(g,h,i)perylene	17.42	276	302380	6.424	ng	97

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

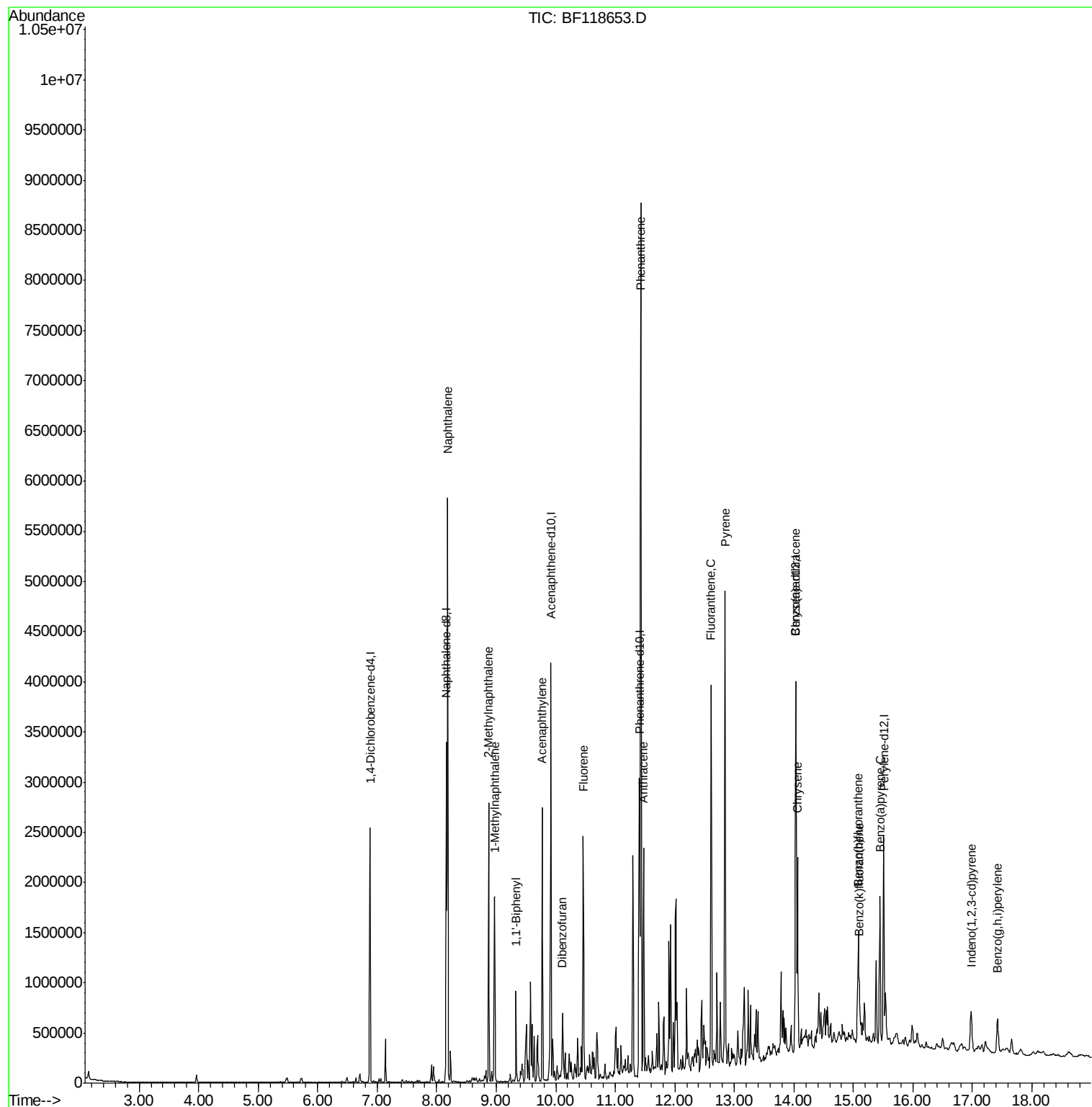
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF012120\
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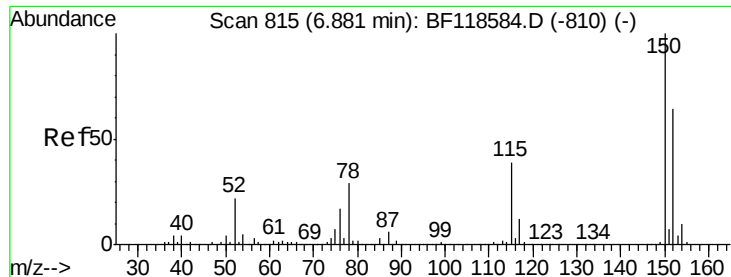
Instrument :
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

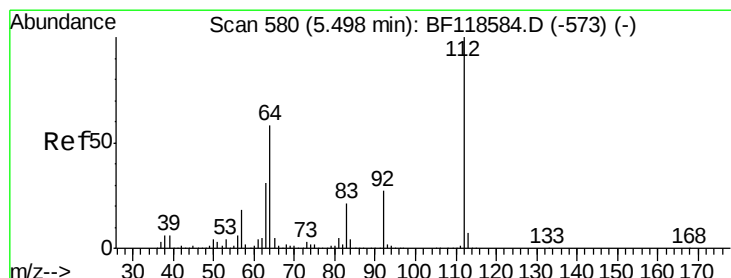
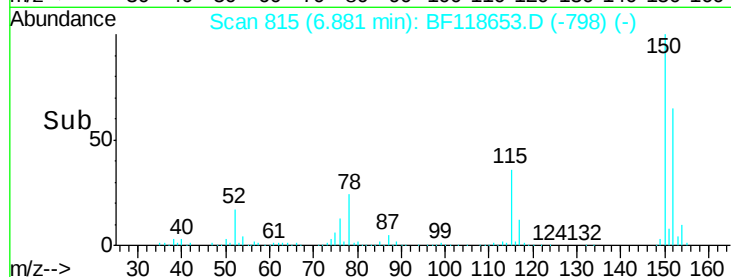
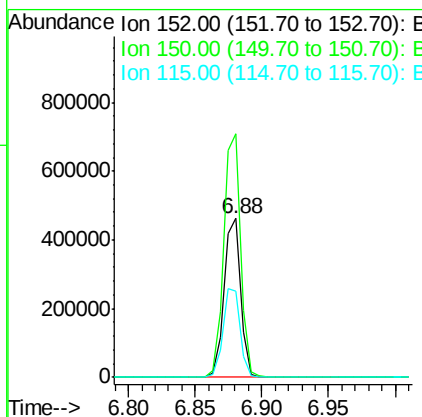
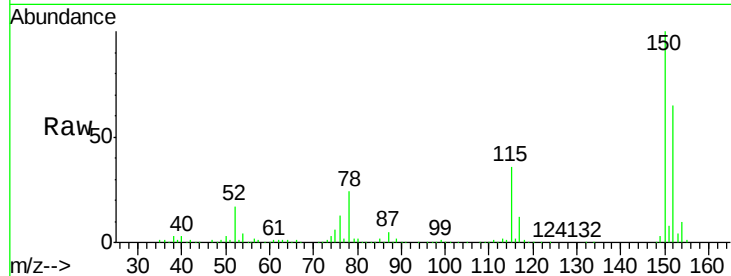
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.88 min Scan# 815
Delta R.T. 0.00 min
Lab File: BF118653.D
Acq: 22 Jan 2020 1:00

Instrument :
BNA_F
ClientSampleId :
SB-43-(2-4)DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	153.6	125.6	188.4
115	54.6	48.4	72.6

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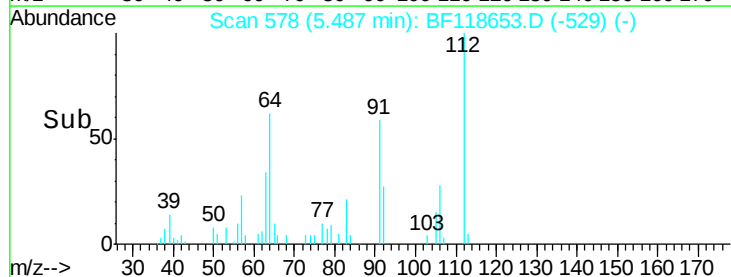
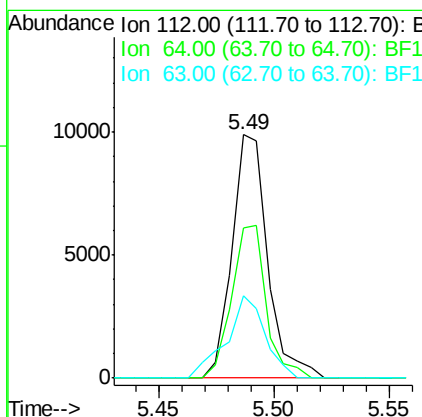
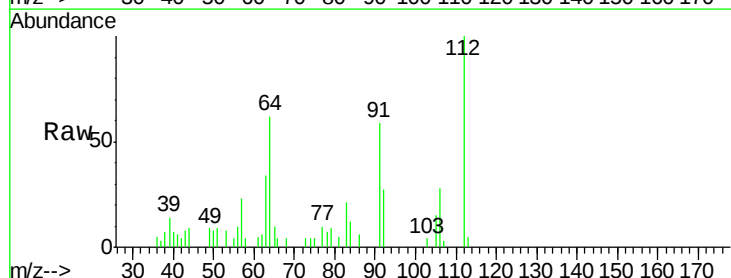
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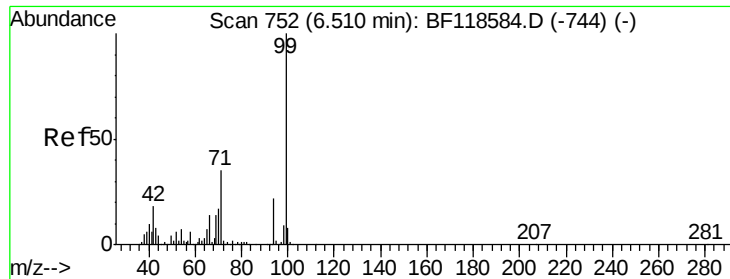


#5

2-Fluorophenol
Concen: 0.482 ng
RT: 5.49 min Scan# 578
Delta R.T. -0.01 min
Lab File: BF118653.D
Acq: 22 Jan 2020 1:00

Tgt Ion	Ratio	Lower	Upper
112	100		
64	61.6	46.6	70.0
63	33.7	25.1	37.7





#7

Phenol-d6

Concen: 0.543 ng

RT: 6.49 min Scan# 749

Delta R.T. -0.02 min

Lab File: BF118653.D

Acq: 22 Jan 2020 1:00

Instrument :

BNA_F

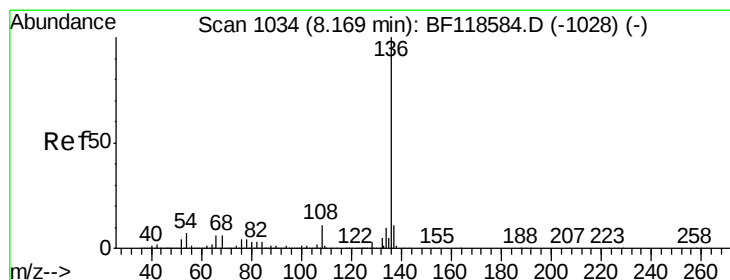
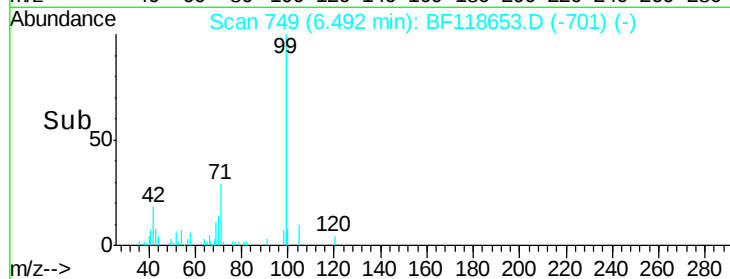
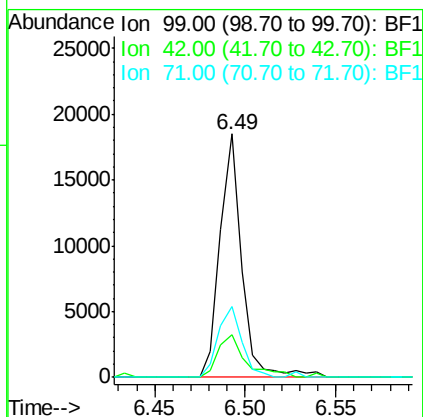
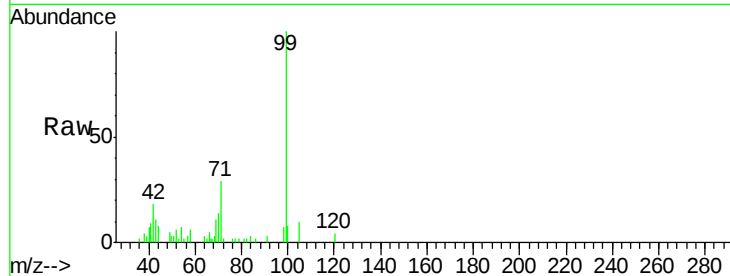
ClientSampleId :

SB-43-(2-4)DL

Tot Ion:	99	Resp:	15569
Ion Ratio	Lower	Upper	
99	100		
42	17.6	14.2	21.2
71	29.1	27.8	41.6

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#21

Naphthalene-d8

Concen: 20.000 ng

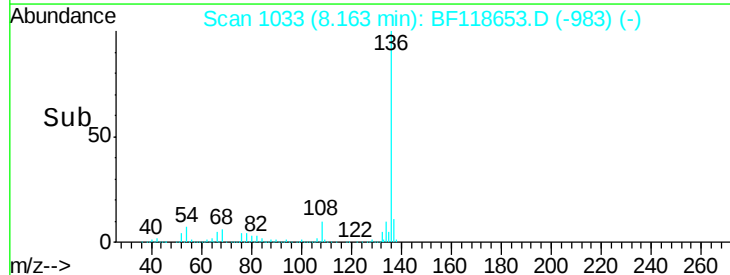
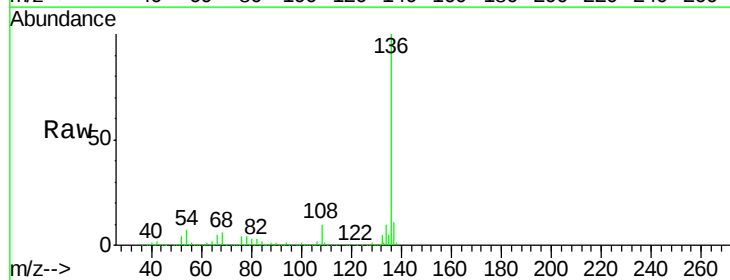
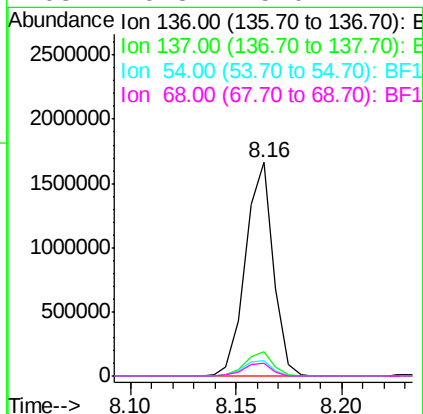
RT: 8.16 min Scan# 1033

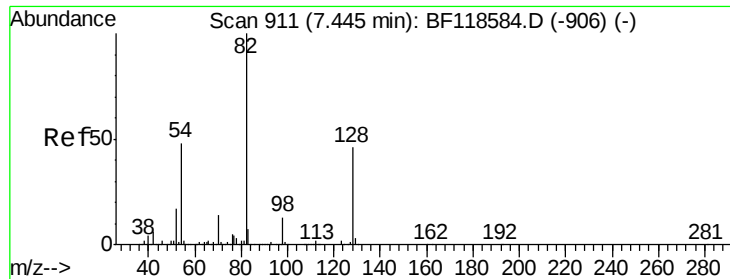
Delta R.T. -0.01 min

Lab File: BF118653.D

Acq: 22 Jan 2020 1:00

Tgt Ion:	136	Resp:	1510792
Ion Ratio	Lower	Upper	
136	100		
137	11.2	9.1	13.7
54	7.0	5.8	8.6
68	6.3	5.0	7.4





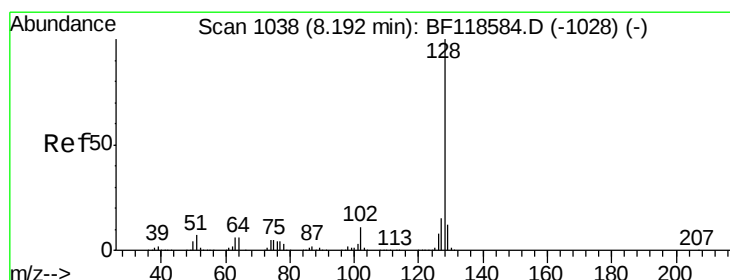
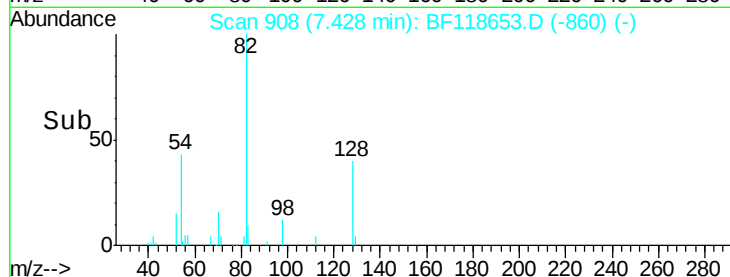
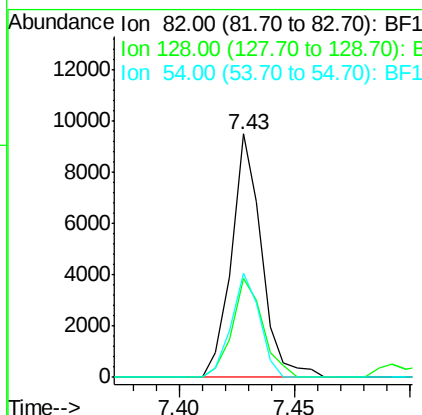
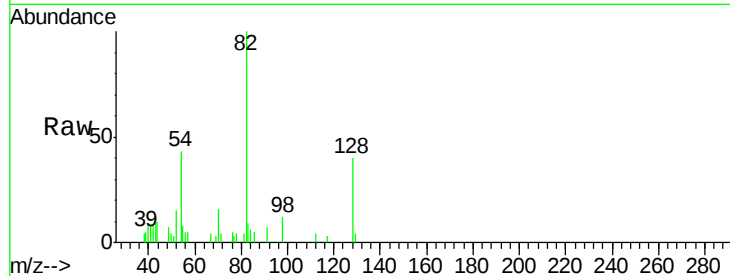
#23
Nitrobenzene-d5
Concen: 0.321 ng
RT: 7.43 min Scan# 908
Delta R.T. -0.02 min
Lab File: BF118653.D
Acq: 22 Jan 2020 1:00

Instrument :
BNA_F
ClientSampleId :
SB-43-(2-4)DL

Tot Ion:	82	Resp:	8661
Ion Ratio	Lower	Upper	
82	100		
128	40.5	36.6	54.8
54	42.9	38.0	57.0

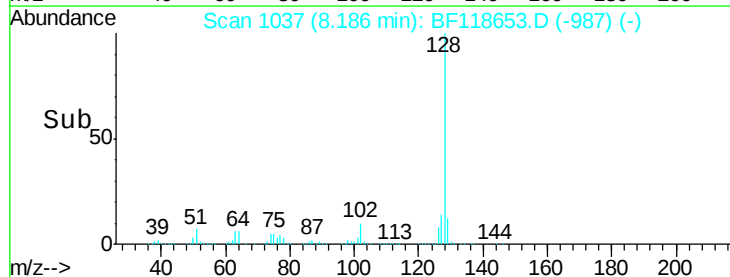
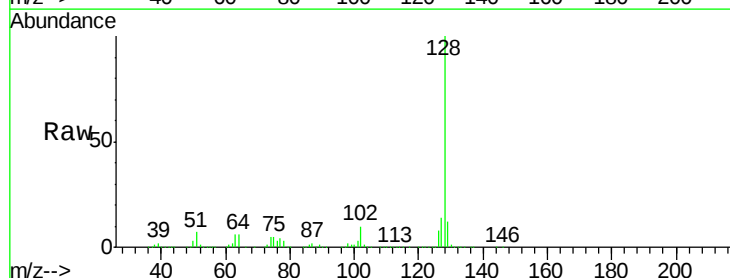
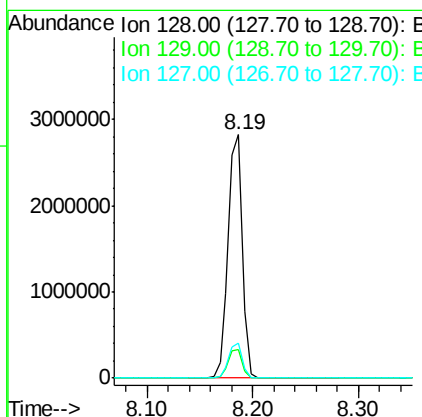
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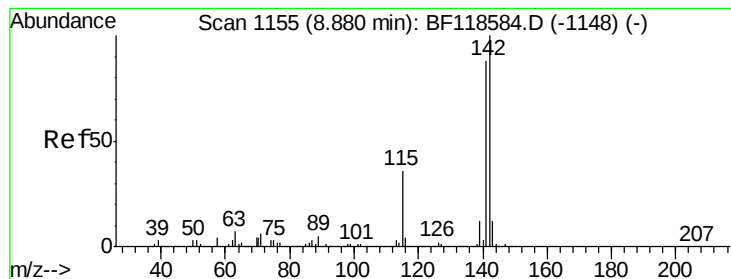
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#31
Naphthalene
Concen: 38.717 ng
RT: 8.19 min Scan# 1037
Delta R.T. -0.01 min
Lab File: BF118653.D
Acq: 22 Jan 2020 1:00

Tgt Ion:	128	Resp:	2642342
Ion Ratio	Lower	Upper	
128	100		
129	11.9	9.9	14.9
127	14.3	12.0	18.0





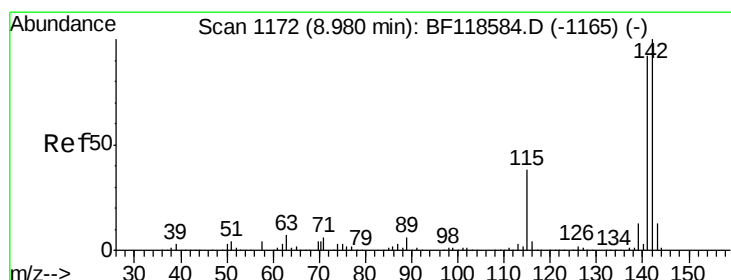
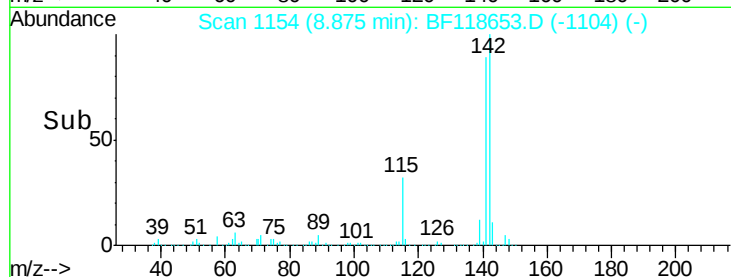
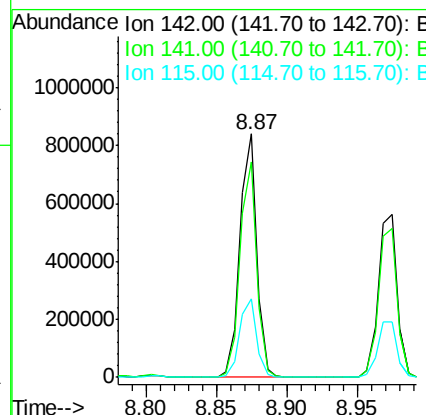
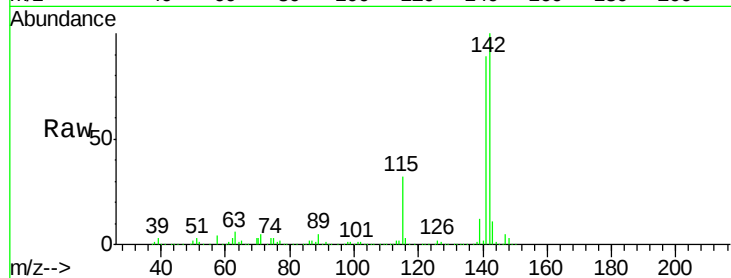
#37
2-Methylnaphthalene
Concen: 14.527 ng
RT: 8.87 min Scan# 1154
Delta R.T. -0.01 min
Lab File: BF118653.D
Acq: 22 Jan 2020 1:00

Instrument :
BNA_F
ClientSampleId :
SB-43-(2-4)DL

Tot Ion	Ratio	Lower	Upper
142	100		
141	88.6	70.7	106.1
115	32.4	28.5	42.7

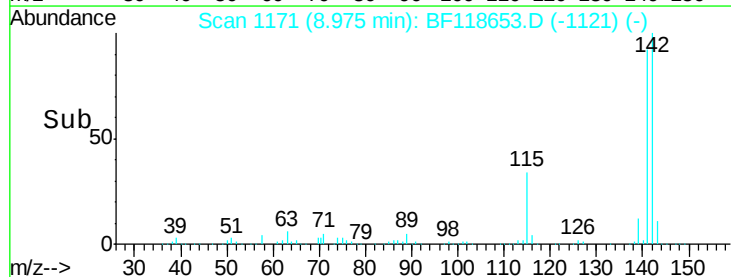
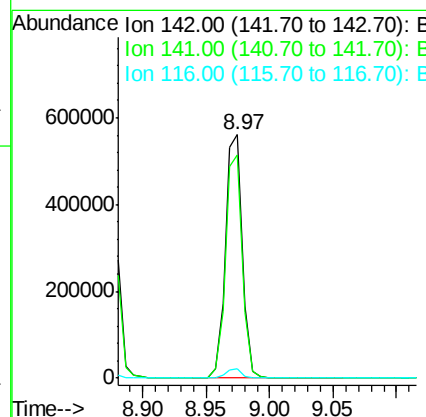
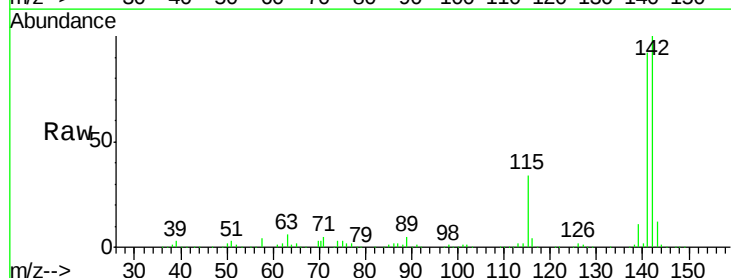
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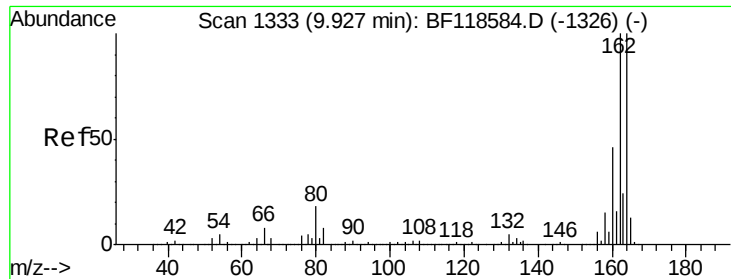
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#38
1-Methylnaphthalene
Concen: 11.423 ng
RT: 8.97 min Scan# 1171
Delta R.T. -0.01 min
Lab File: BF118653.D
Acq: 22 Jan 2020 1:00

Tgt Ion	Ratio	Lower	Upper
142	100		
141	91.9	73.4	110.2
116	3.6	3.3	4.9





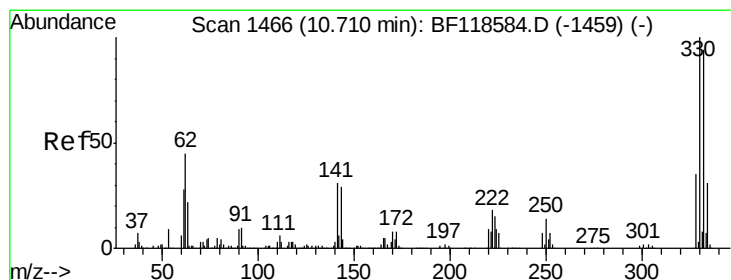
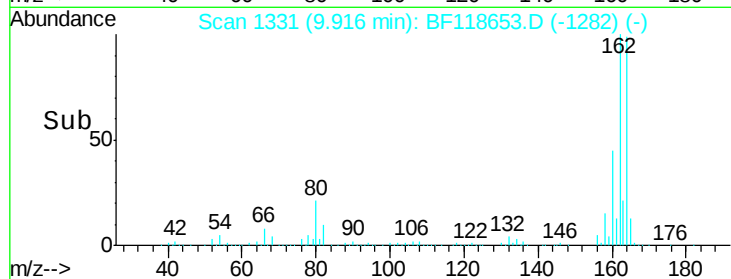
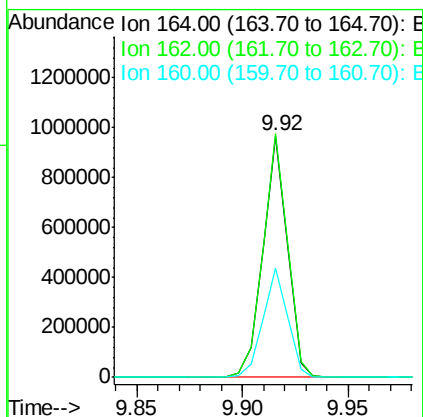
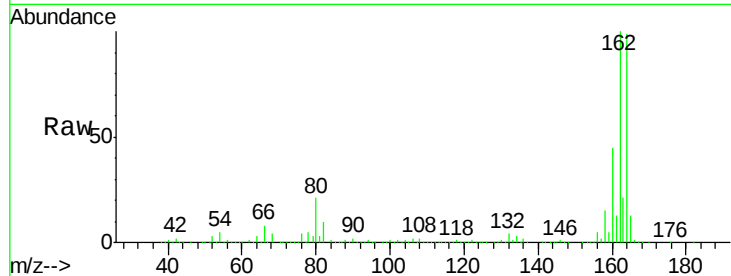
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.92 min Scan# 1331
Delta R.T. -0.01 min
Lab File: BF118653.D
Acq: 22 Jan 2020 1:00

Instrument :
BNA_F
ClientSampleId :
SB-43-(2-4)DL

Tot Ion	Ratio	Lower	Upper
164	100		
162	100.9	80.4	120.6
160	45.5	36.6	55.0

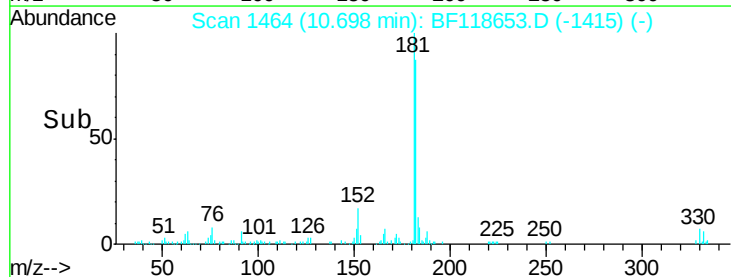
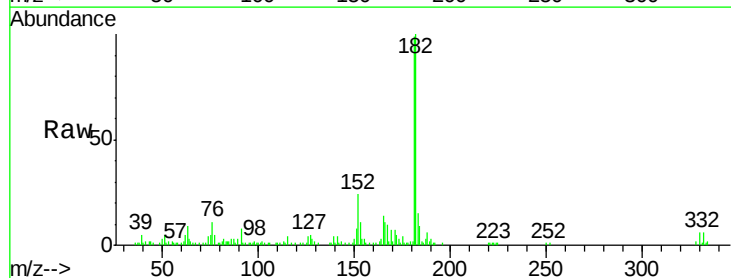
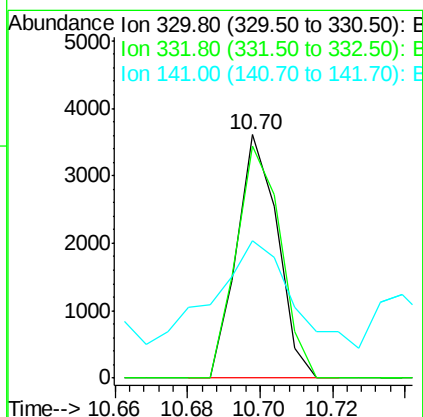
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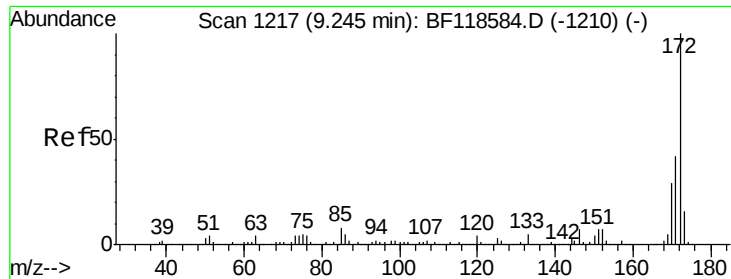
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#42
2,4,6-Tribromophenol
Concen: 0.314 ng
RT: 10.70 min Scan# 1464
Delta R.T. -0.01 min
Lab File: BF118653.D
Acq: 22 Jan 2020 1:00

Tgt Ion	Ratio	Lower	Upper
330	100		
332	103.7	76.2	114.4
141	82.6	23.9	35.9#





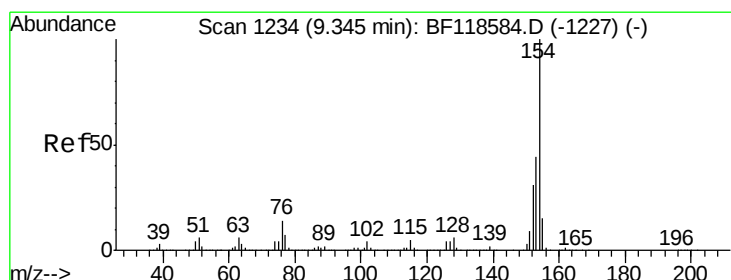
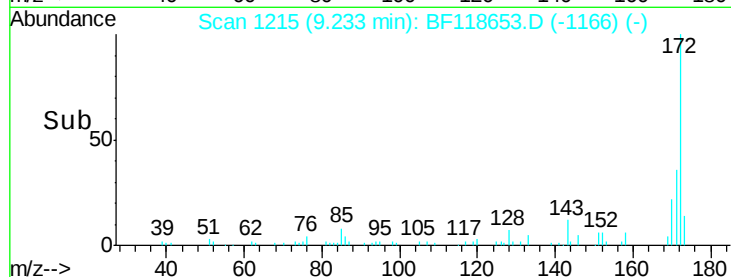
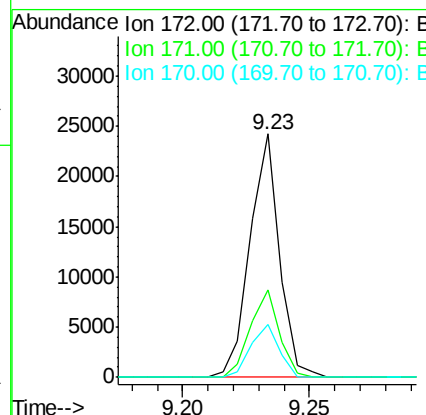
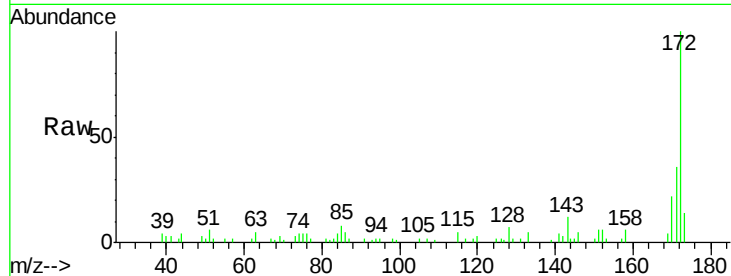
#45
2-Fluorobiphenyl
Concen: 0.411 ng
RT: 9.23 min Scan# 1215
Delta R.T. -0.01 min
Lab File: BF118653.D
Acq: 22 Jan 2020 1:00

Instrument :
BNA_F
ClientSampleId :
SB-43-(2-4)DL

Tot Ion	Ratio	Lower	Upper
172	100		
171	35.8	33.4	50.2
170	21.9	23.2	34.8

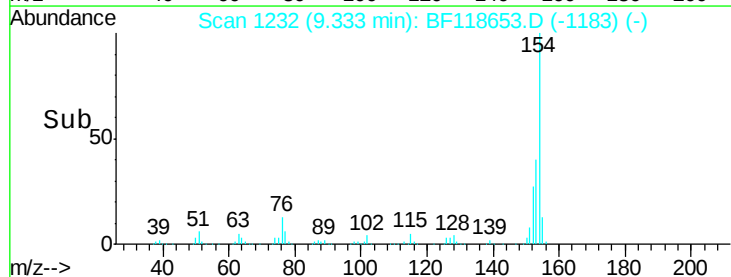
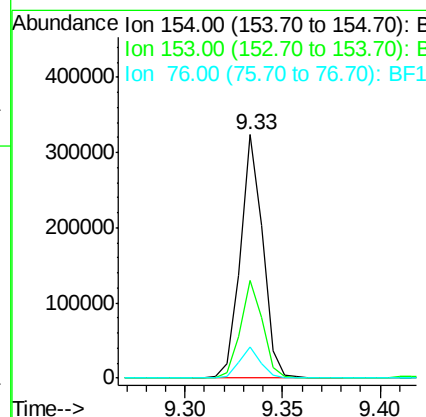
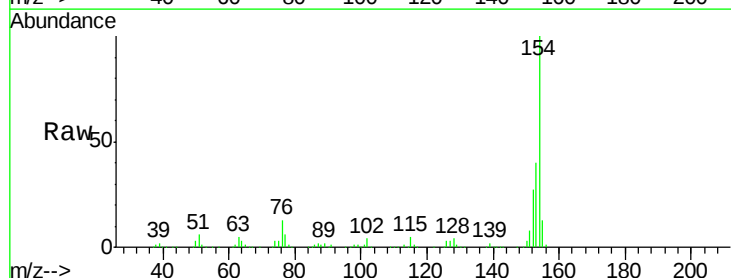
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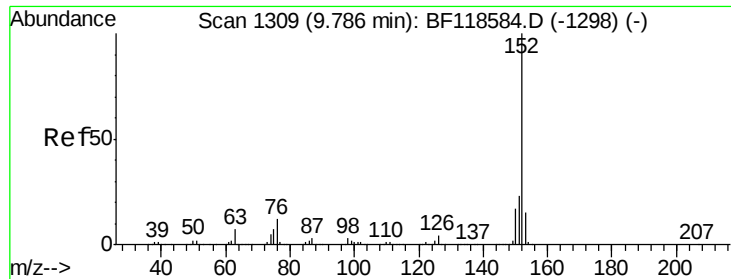
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#46
1,1'-Biphenyl
Concen: 4.773 ng
RT: 9.33 min Scan# 1232
Delta R.T. -0.01 min
Lab File: BF118653.D
Acq: 22 Jan 2020 1:00

Tgt Ion	Ratio	Lower	Upper
154	100		
153	40.2	23.8	63.8
76	12.9	0.0	34.3





#49

Acenaphthylene

Concen: 14.478 ng

RT: 9.77 min Scan# 1307

Delta R.T. -0.01 min

Lab File: BF118653.D

Acq: 22 Jan 2020 1:00

Instrument :

BNA_F

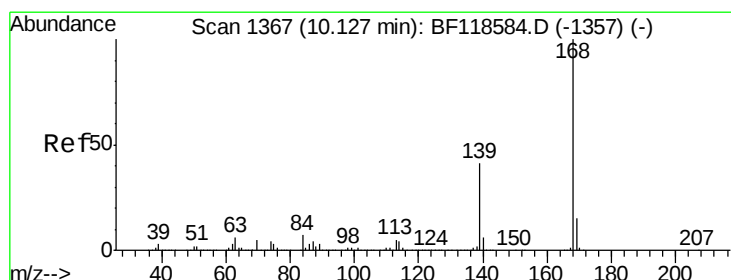
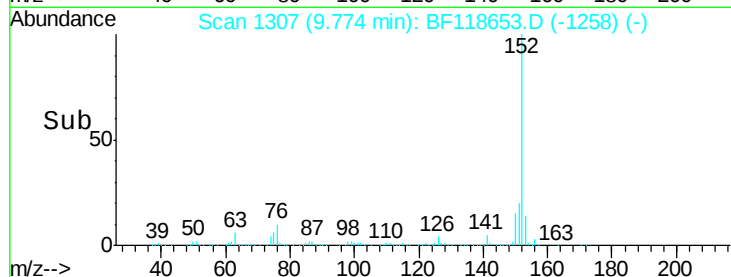
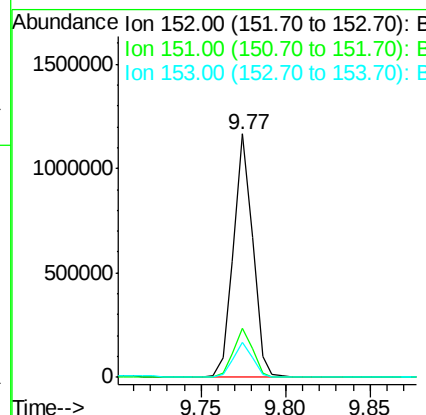
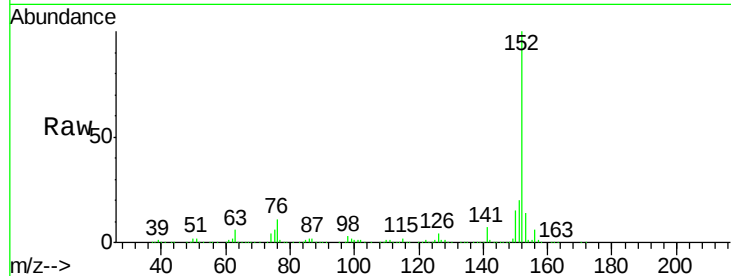
ClientSampleId :

SB-43-(2-4)DL

Tot Ion:	152	Resp:	925191
Ion Ratio	Lower	Upper	
152	100		
151	20.2	18.6	27.8
153	14.2	12.2	18.4

Manual Integrations
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#55

Dibenzofuran

Concen: 3.237 ng

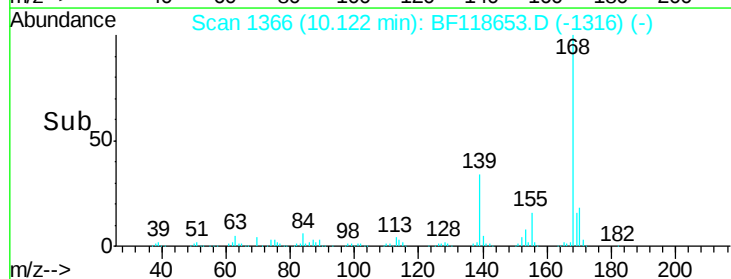
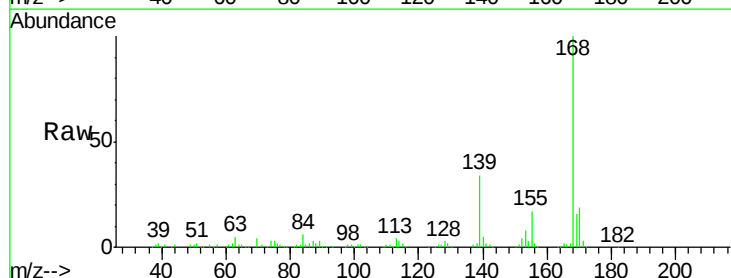
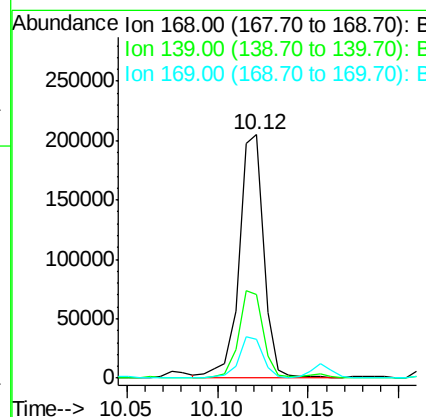
RT: 10.12 min Scan# 1366

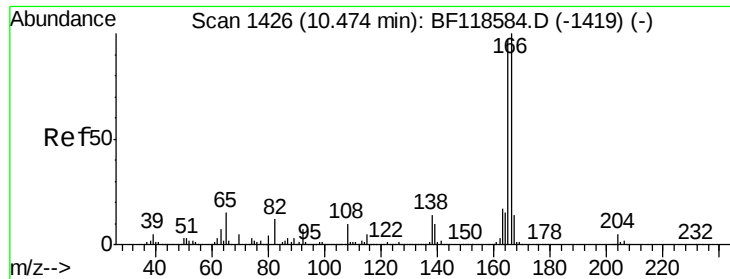
Delta R.T. -0.01 min

Lab File: BF118653.D

Acq: 22 Jan 2020 1:00

Tgt Ion:	168	Resp:	191661
Ion Ratio	Lower	Upper	
168	100		
139	34.3	32.7	49.1
169	15.8	12.2	18.2





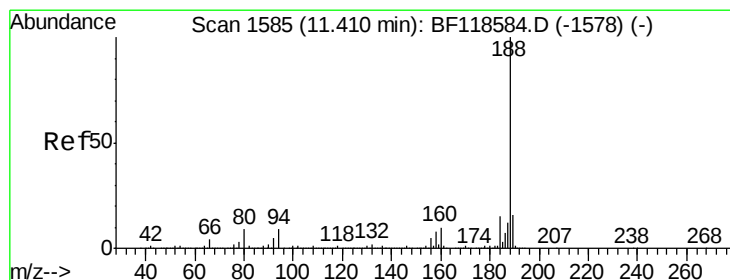
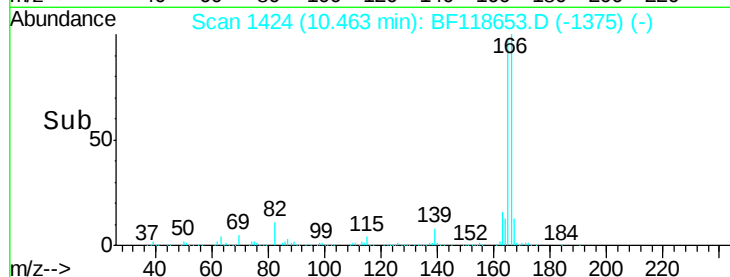
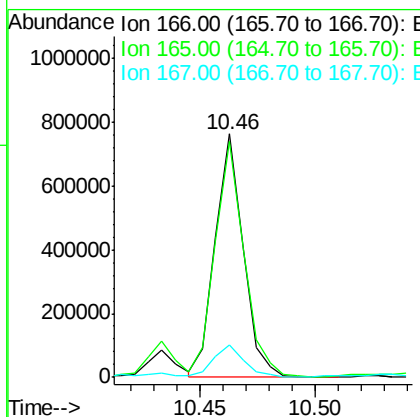
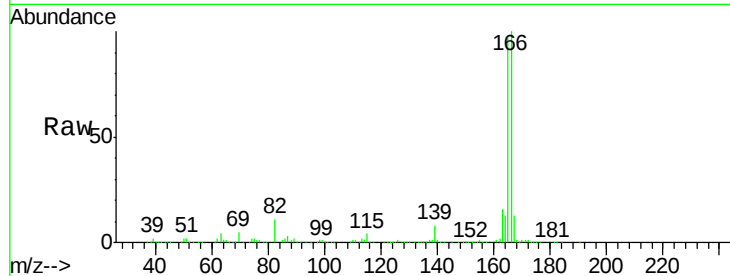
#58
 Fluorene
 Concen: 13.743 ng
 RT: 10.46 min Scan# 1424
 Delta R.T. -0.01 min
 Lab File: BF118653.D
 Acq: 22 Jan 2020 1:00

Instrument :
 BNA_F
 ClientSampleID :
 SB-43-(2-4)DL

Tot Ion	Ion	Ratio	Lower	Upper
166	100			
165	96.9	77.3	115.9	
167	13.4	11.5	17.3	

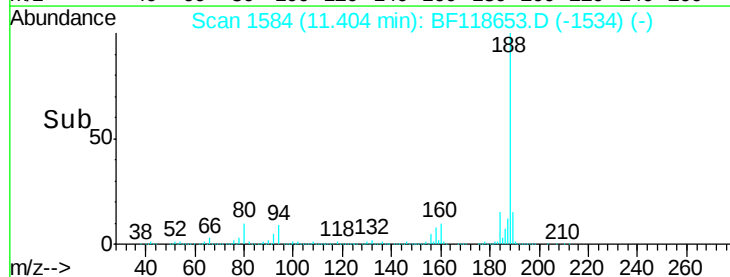
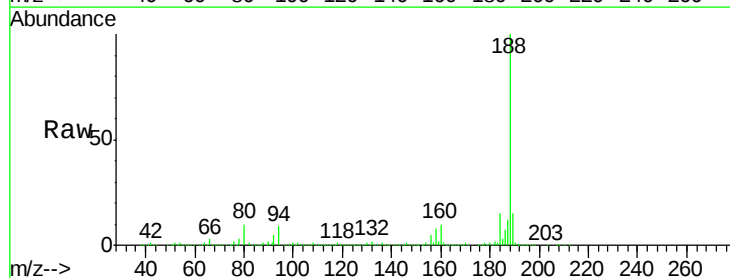
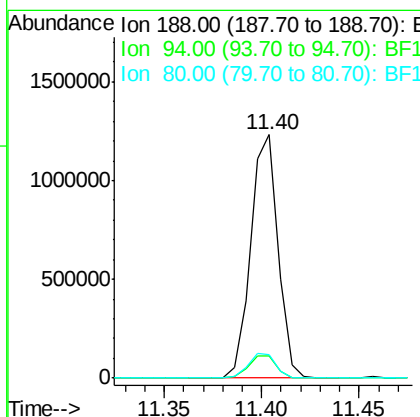
Manual Integrations
 APPROVED

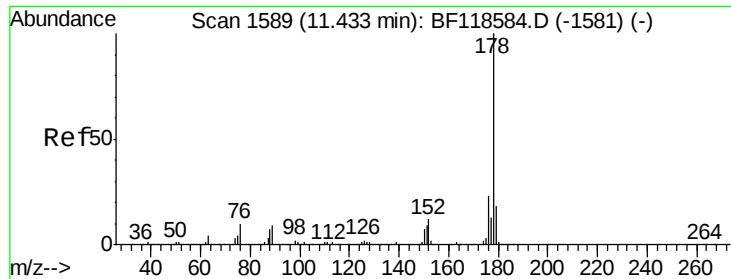
mohammad
 1/22/2020 1:36:43 PM



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.40 min Scan# 1584
 Delta R.T. -0.01 min
 Lab File: BF118653.D
 Acq: 22 Jan 2020 1:00

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





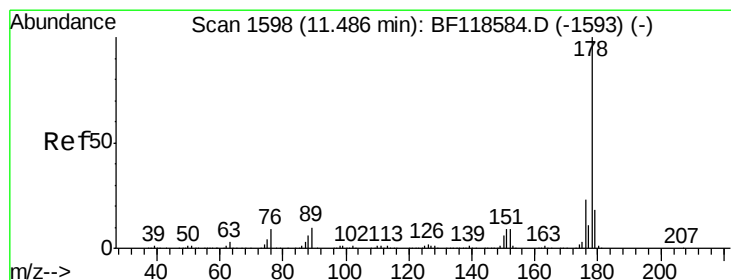
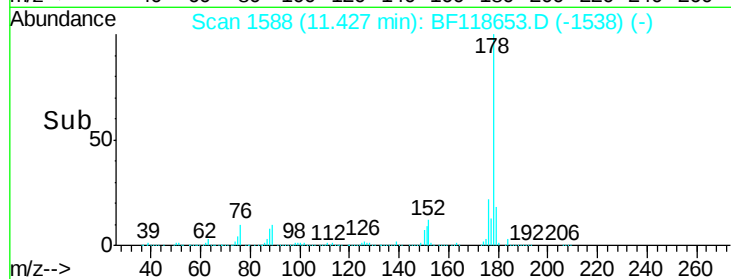
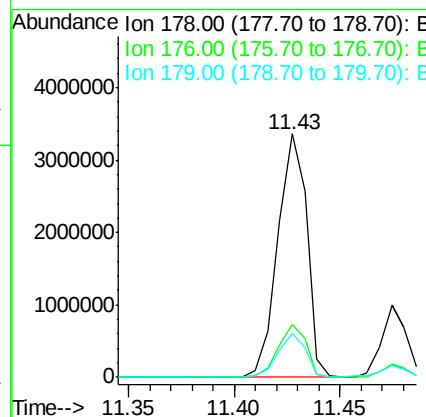
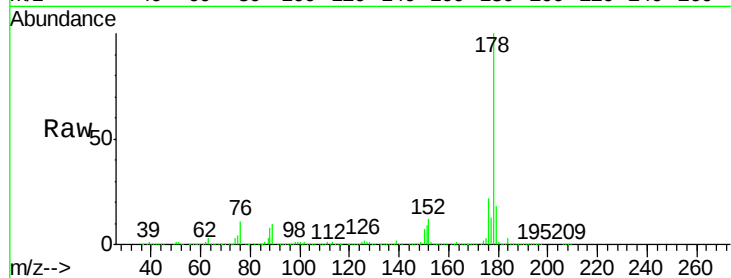
#71
Phenanthrene
Concen: 55.838 ng
RT: 11.43 min Scan# 1588
Delta R.T. -0.01 min
Lab File: BF118653.D
Acq: 22 Jan 2020 1:00

Instrument :
BNA_F
ClientSampleId :
SB-43-(2-4)DL

Tot Ion:178 Resp: 3214158
Ion Ratio Lower Upper
178 100
176 21.9 18.6 27.8
179 17.8 14.7 22.1

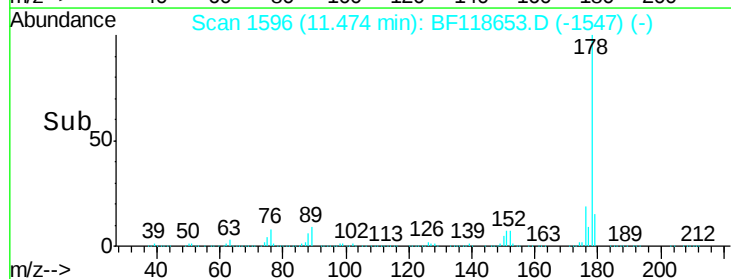
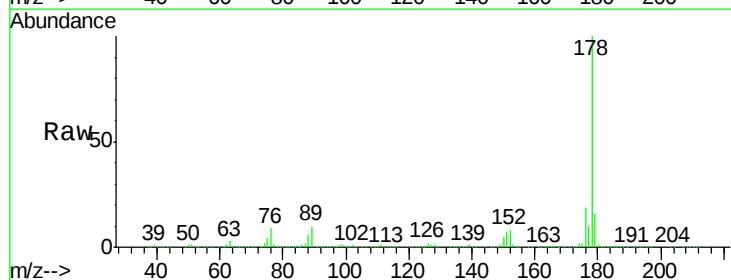
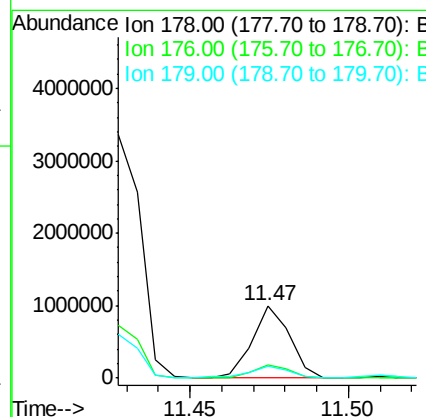
Manual Integrations
APPROVED

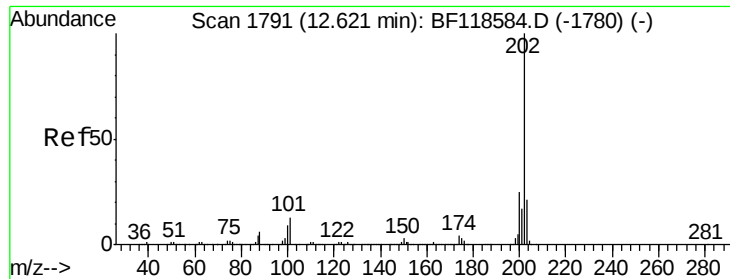
mohammad
1/22/2020 1:36:43 PM



#72
Anthracene
Concen: 14.140 ng
RT: 11.47 min Scan# 1596
Delta R.T. -0.01 min
Lab File: BF118653.D
Acq: 22 Jan 2020 1:00

Tgt Ion:178 Resp: 805392
Ion Ratio Lower Upper
178 100
176 18.9 18.0 27.0
179 15.8 14.7 22.1





#75

Fluoranthene

Concen: 26.260 ng

RT: 12.62 min Scan# 1790

Delta R.T. -0.01 min

Lab File: BF118653.D

Acq: 22 Jan 2020 1:00

Instrument :

BNA_F

ClientSampleId :

SB-43-(2-4)DL

Tot Ion:202 Resp: 1594285

Ion Ratio Lower Upper

202 100

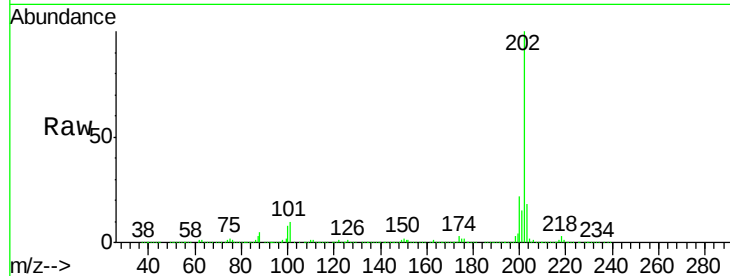
101 10.2 0.0 32.5

203 18.2 0.8 40.8

Manual Integrations
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mohammad

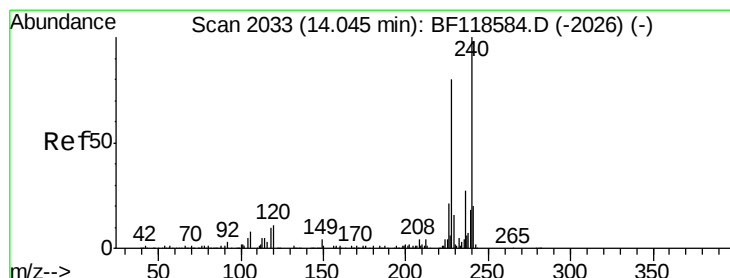
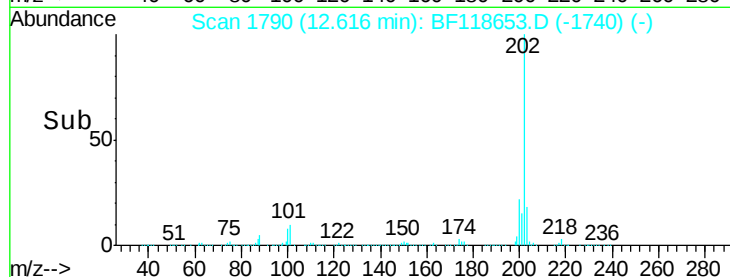
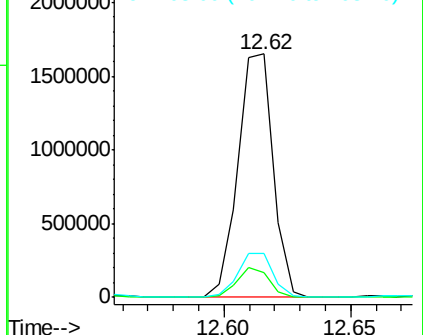
1/22/2020 1:36:43 PM



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: BF118653.D

Acq: 22 Jan 2020 1:00

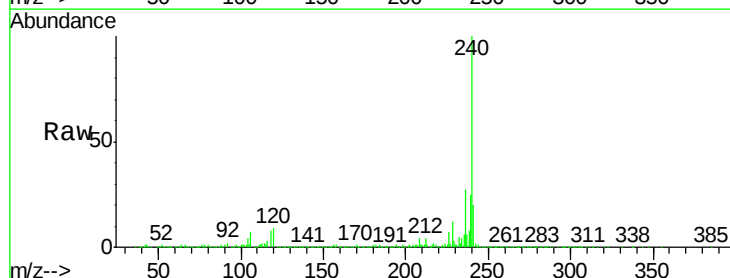
Tgt Ion:240 Resp: 941667

Ion Ratio Lower Upper

240 100

120 9.3 8.9 13.3

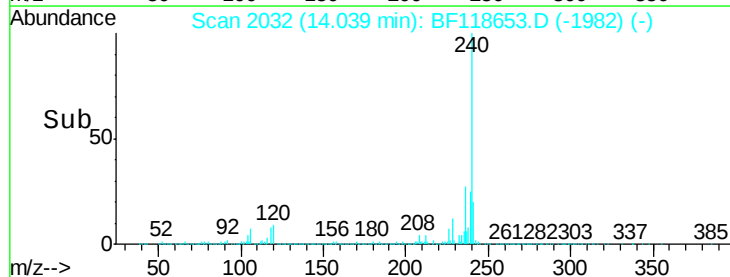
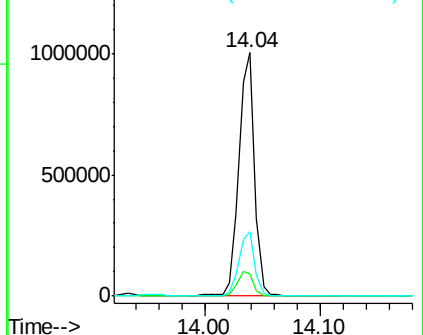
236 26.7 21.5 32.3

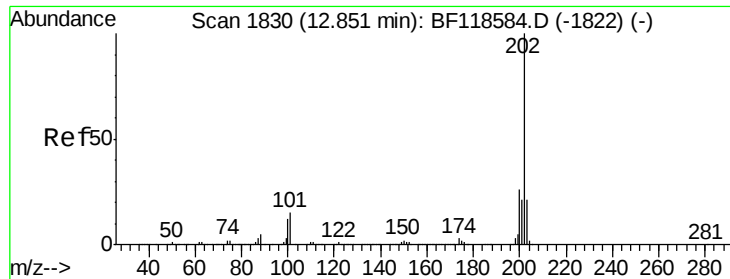


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





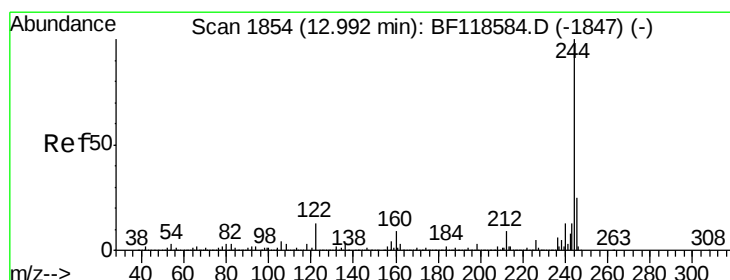
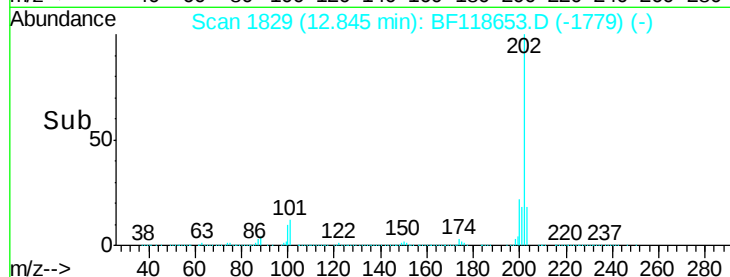
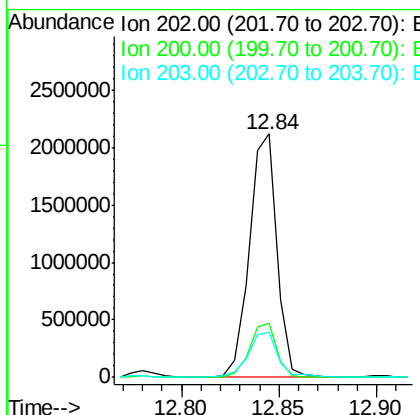
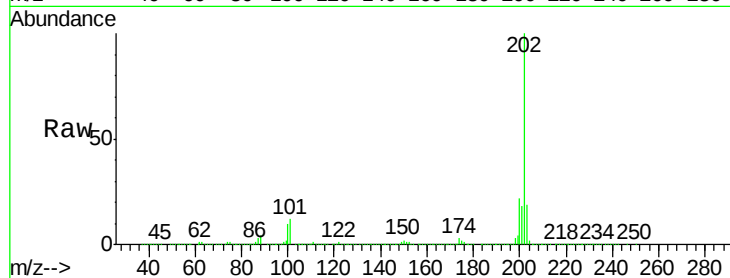
#78
Pvrene
Concen: 32.094 ng
RT: 12.84 min Scan# 1829
Delta R.T. -0.01 min
Lab File: BF118653.D
Acq: 22 Jan 2020 1:00

Instrument :
BNA_F
ClientSampleId :
SB-43-(2-4)DL

Tot Ion	Ratio	Lower	Upper
202	100		
200	22.2	20.6	31.0
203	18.6	16.8	25.2

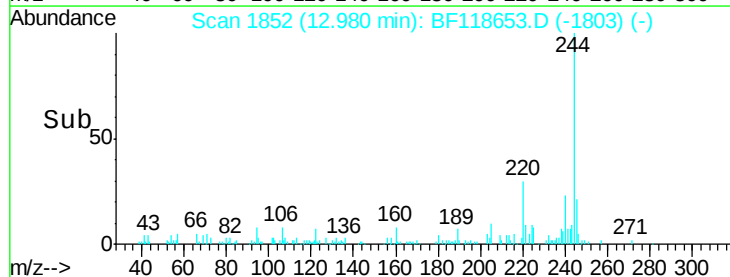
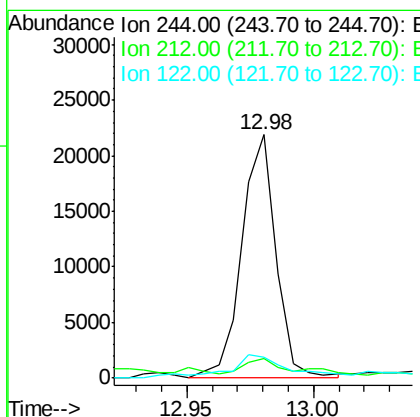
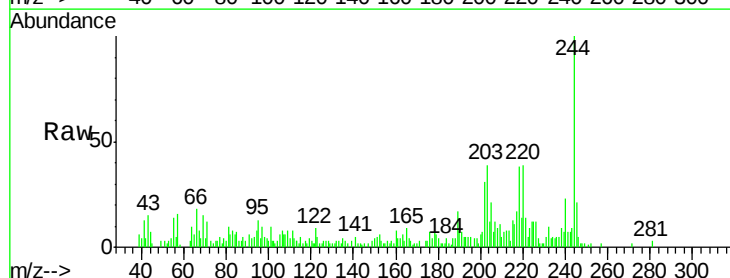
Manual Integrations
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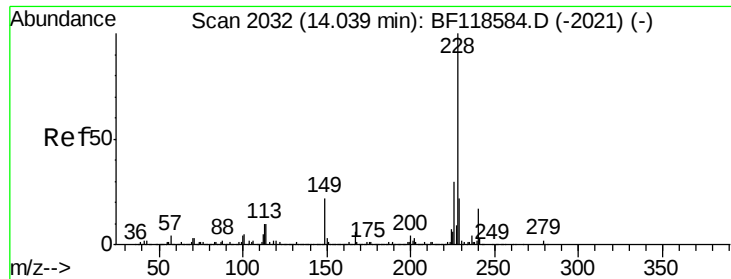
mohammad
1/22/2020 1:36:43 PM



#79
Terphenyl-d14
Concen: 0.477 ng
RT: 12.98 min Scan# 1852
Delta R.T. -0.01 min
Lab File: BF118653.D
Acq: 22 Jan 2020 1:00

Tgt Ion	Ratio	Lower	Upper
244	100		
212	8.0	7.0	10.4
122	8.5	10.7	16.1#





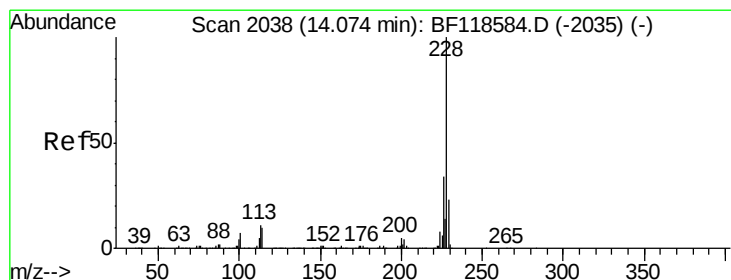
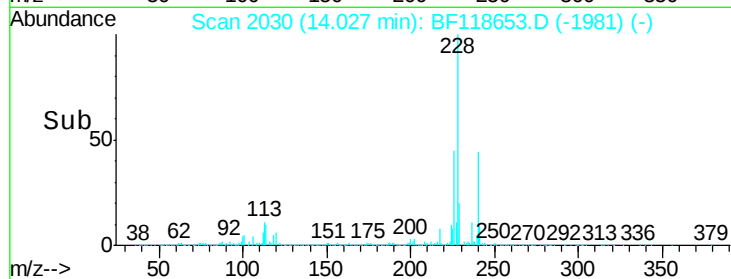
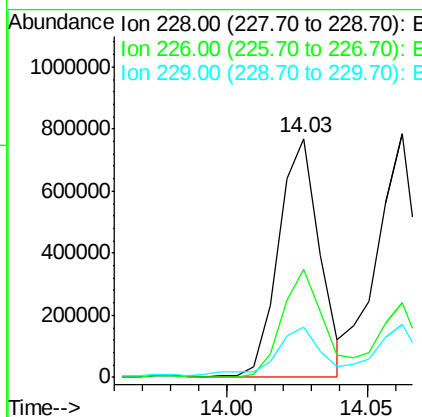
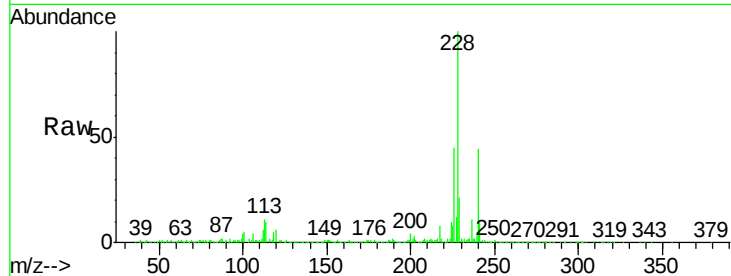
#81
Benzo(a)anthracene
Concen: 13.683 ng m
RT: 14.03 min Scan# 2030
Delta R.T. -0.01 min
Lab File: BF118653.D
Acq: 22 Jan 2020 1:00

Instrument :
BNA_F
ClientSampleId :
SB-43-(2-4)DL

Tot Ion	Ratio	Lower	Upper
228	100		
226	45.4	24.1	36.1#
229	21.1	17.6	26.4

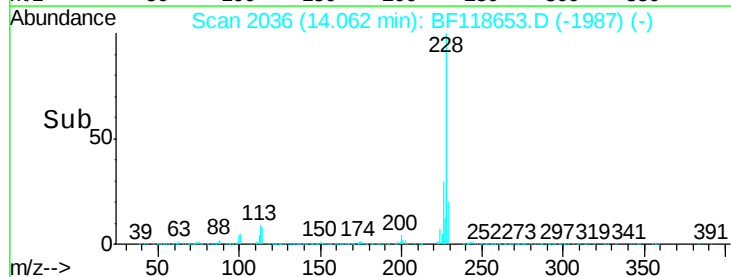
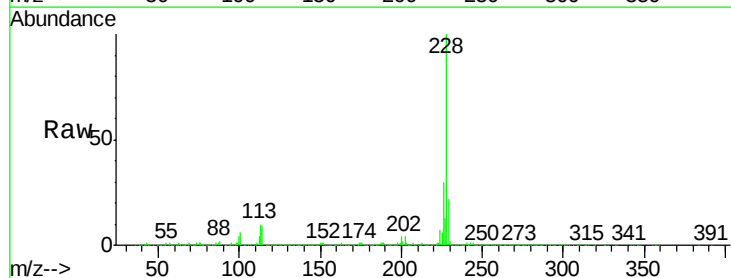
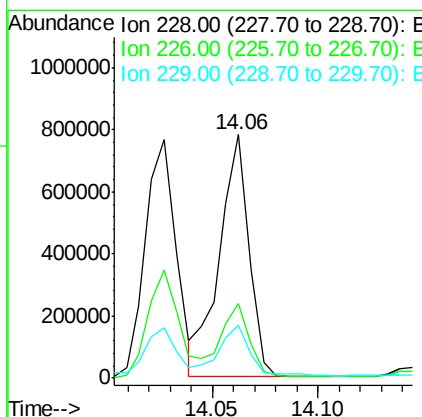
Manual Integrations
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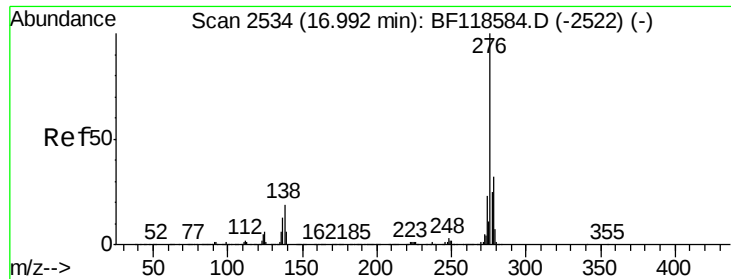
mohammad
1/22/2020 1:36:43 PM



#83
Chrysene
Concen: 13.959 ng
RT: 14.06 min Scan# 2036
Delta R.T. -0.01 min
Lab File: BF118653.D
Acq: 22 Jan 2020 1:00

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.4	27.4	41.0
229	21.7	18.3	27.5





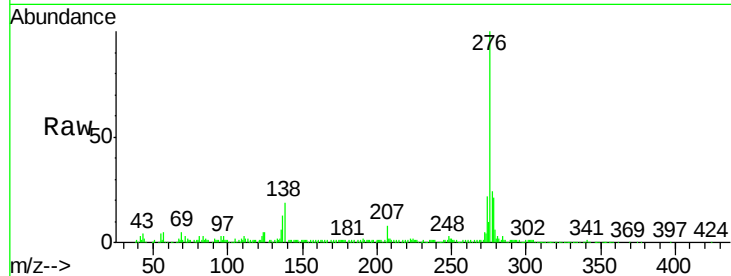
#86
 Indeno(1,2,3-cd)pyrene
 Concen: 5.871 ng
 RT: 16.98 min Scan# 2532
 Delta R.T. -0.01 min
 Lab File: BF118653.D
 Acq: 22 Jan 2020 1:00

Instrument :
 BNA_F
 ClientSampleId :
 SB-43-(2-4)DL

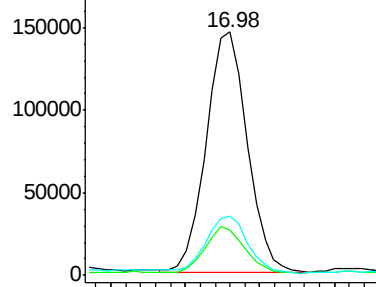
Tot Ion	Ratio	Lower	Upper
276	100		
138	19.1	17.2	25.8
277	24.6	20.5	30.7

Manual Integrations
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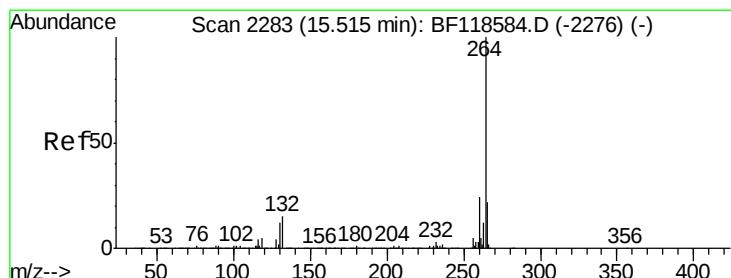
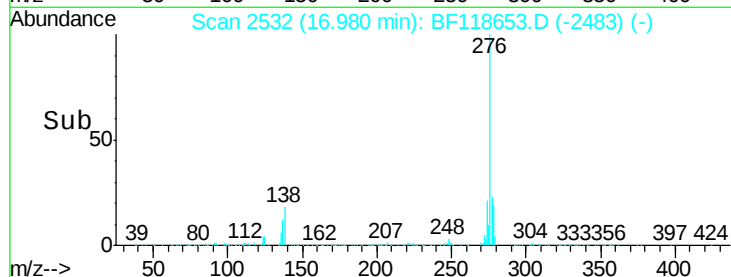
mohammad
 1/22/2020 1:36:43 PM



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

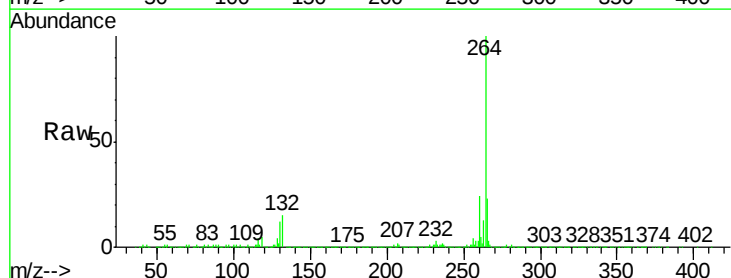


Time-->

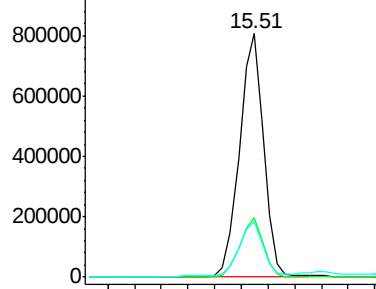


#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.51 min Scan# 2282
 Delta R.T. -0.01 min
 Lab File: BF118653.D
 Acq: 22 Jan 2020 1:00

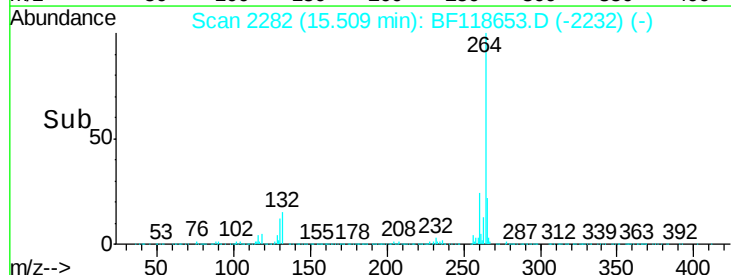
Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.2	19.6	29.4
265	22.7	17.7	26.5

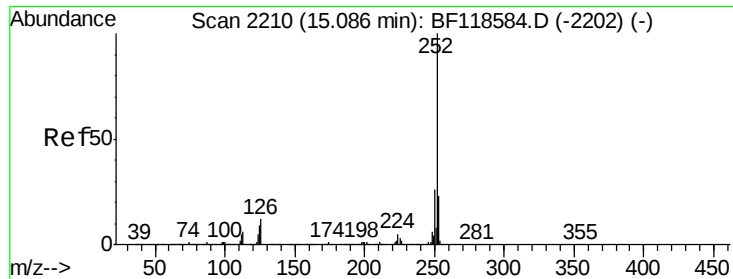


Abundance Ion 264.00 (263.70 to 264.70): E
 Ion 260.00 (259.70 to 260.70): E
 Ion 265.00 (264.70 to 265.70): E



Time-->





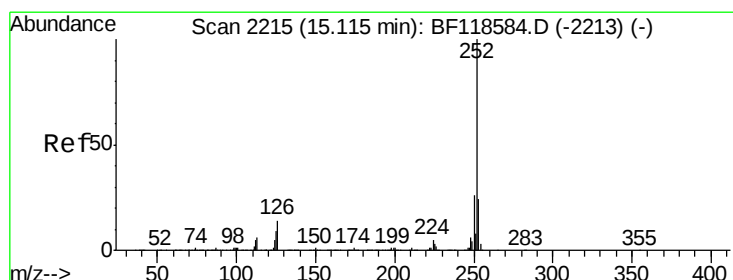
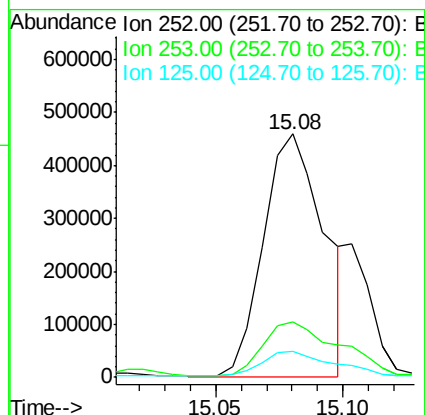
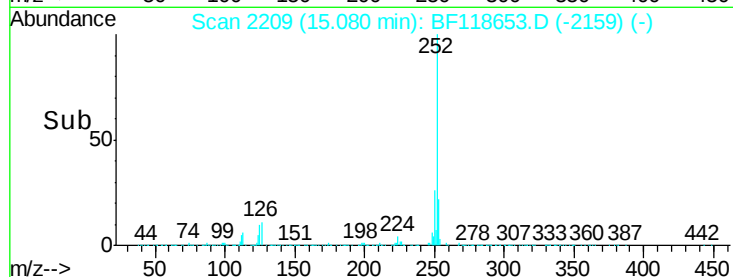
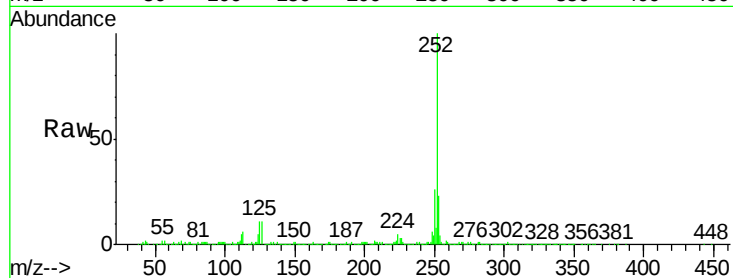
#88
Benzo(b)fluoranthene
Concen: 11.846 ng m
RT: 15.08 min Scan# 2209
Delta R.T. -0.01 min
Lab File: BF118653.D
Acq: 22 Jan 2020 1:00

Instrument :
BNA_F
ClientSampleId :
SB-43-(2-4)DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.8	18.7	28.1
125	10.5	7.3	10.9

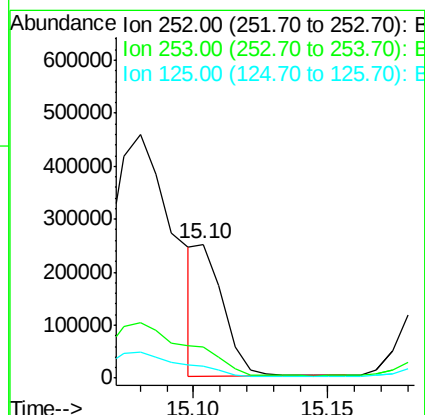
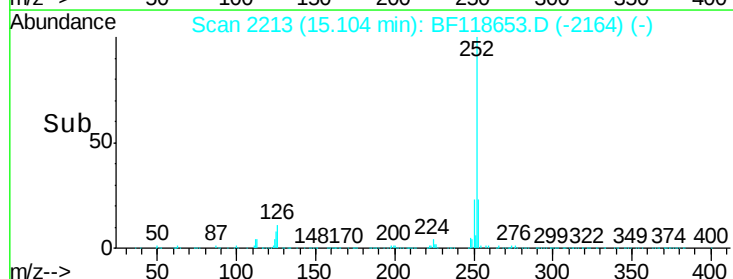
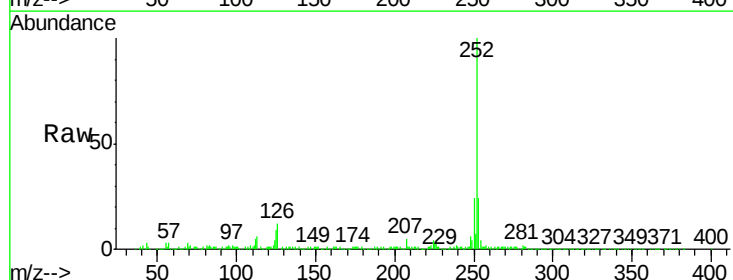
Manual Integrations
APPROVED

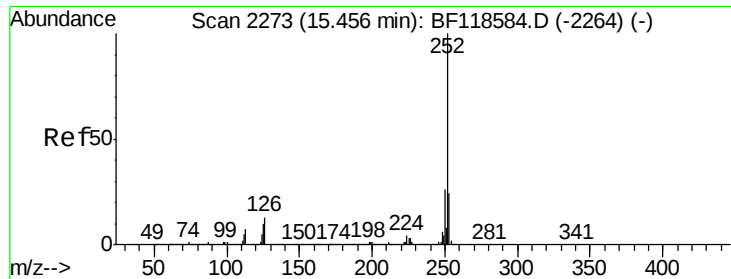
mohammad
1/22/2020 1:36:43 PM



#89
Benzo(k)fluoranthene
Concen: 2.970 ng m
RT: 15.10 min Scan# 2213
Delta R.T. -0.01 min
Lab File: BF118653.D
Acq: 22 Jan 2020 1:00

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.7	19.0	28.4
125	8.8	7.6	11.4





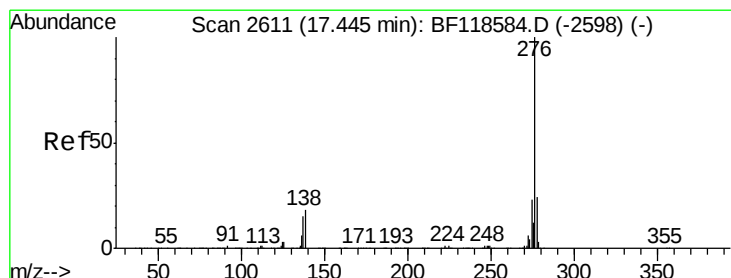
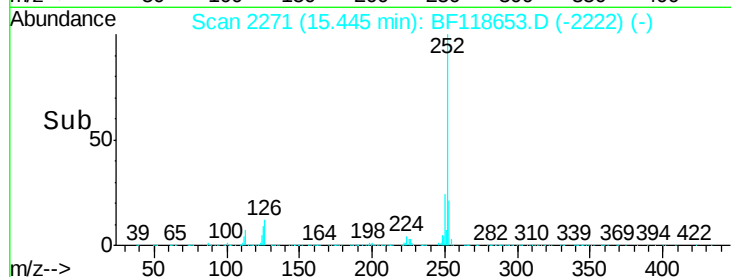
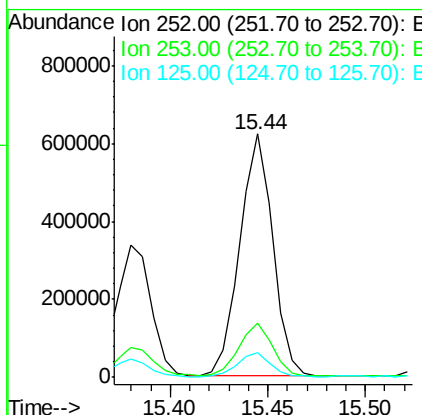
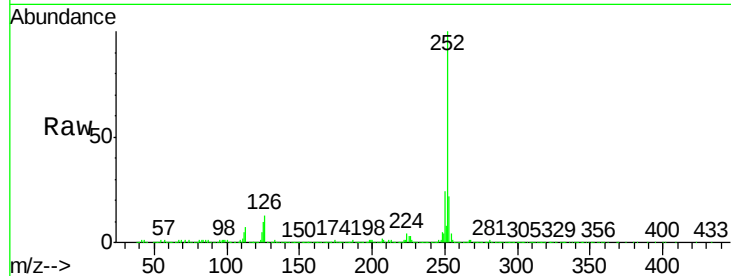
#90
Benzo(a)pyrene
Concen: 13.293 ng
RT: 15.44 min Scan# 2271
Delta R.T. -0.01 min
Lab File: BF118653.D
Acq: 22 Jan 2020 1:00

Instrument :
BNA_F
ClientSampleId :
SB-43-(2-4)DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.0	18.8	28.2
125	9.9	7.8	11.6

Manual Integrations
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mohammad
1/22/2020 1:36:43 PM



#92
Benzo(g,h,i)perylene
Concen: 6.424 ng
RT: 17.42 min Scan# 2607
Delta R.T. -0.02 min
Lab File: BF118653.D
Acq: 22 Jan 2020 1:00

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.0	18.9	28.3
138	19.6	14.4	21.6

