

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF103119\
 Data File : BF117671.D
 Acq On : 31 Oct 2019 21:07
 Operator : JU
 Sample : K5148-13 5X
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 OR-03-102919

Manual Integrations
 APPROVED

mohammad
 11/1/2019 12:34:55 PM

Quant Time: Nov 01 02:21:11 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF101819.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Oct 18 18:53:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.73	152	37448	20.00	ng	0.00
21) Naphthalene-d8	8.01	136	164253	20.00	ng	0.00
39) Acenaphthene-d10	9.76	164	76215	20.00	ng	0.00
64) Phenanthrene-d10	11.25	188	102589	20.00	ng	0.00
76) Chrysene-d12	13.90	240	77474	20.00	ng	0.00
87) Perylene-d12	15.34	264	66987	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.38	112	36996	14.70	ng	0.03
7) Phenol-d6	6.41	99	59914	17.72	ng	0.03
23) Nitrobenzene-d5	7.32	82	32714	9.83	ng	0.01
42) 2,4,6-Tribromophenol	10.57	330	8293	12.58	ng	0.00
45) 2-Fluorobiphenyl	9.09	172	60436	11.17	ng	0.00
79) Terphenyl-d14	12.83	244	42352	8.92	ng	0.00
Target Compounds						
71) Phenanthrene	11.27	178	34963	5.869	ng	99
72) Anthracene	11.34	178	14019m	2.294	ng	
75) Fluoranthene	12.47	202	73043	12.249	ng	99
78) Pyrene	12.70	202	68444	10.285	ng	99
81) Benzo(a)anthracene	13.89	228	26265	5.026	ng	98
83) Chrysene	13.93	228	25719	5.022	ng	96
86) Indeno(1,2,3-cd)pyrene	16.78	276	7850	2.053	ng	96
88) Benzo(b)fluoranthene	14.93	252	20363m	5.148	ng	
89) Benzo(k)fluoranthene	14.96	252	9800m	2.417	ng	
90) Benzo(a)pyrene	15.29	252	16875	4.692	ng	# 91
92) Benzo(g,h,i)perylene	17.21	276	7375	2.506	ng	95

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

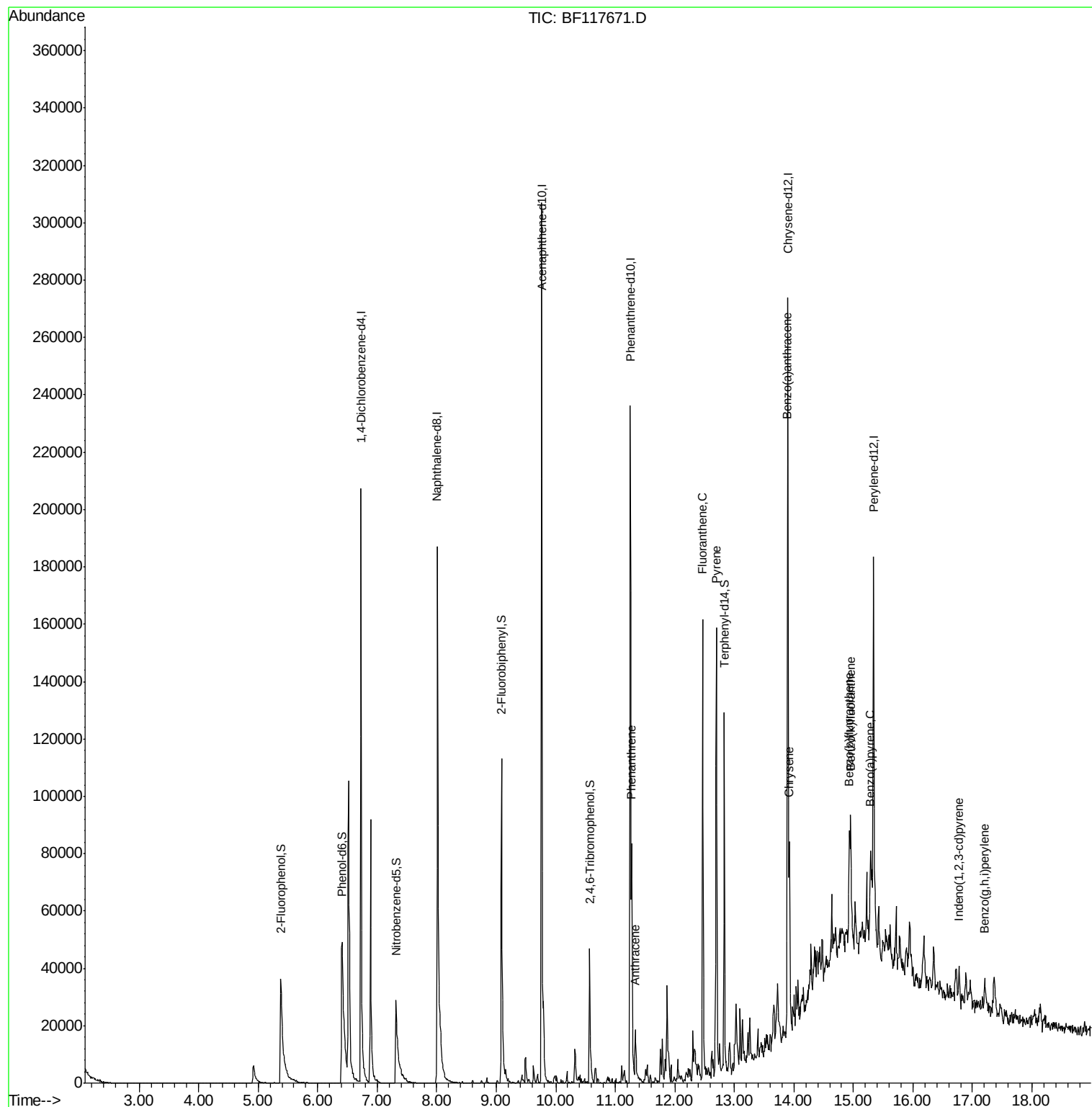
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF103119\
Data File : BF117671.D
Acq On : 31 Oct 2019 21:07
Operator : JU
Sample : K5148-13 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

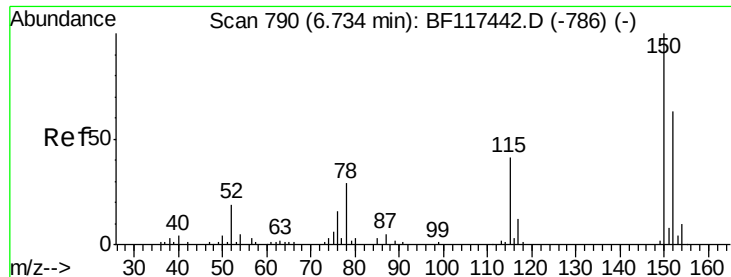
Instrument :
BNA_F
ClientSampleId :
OR-03-102919

Manual Integrations
APPROVED

mohammad
11/1/2019 12:34:55 PM

Quant Time: Nov 01 02:21:11 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF101819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 18:53:31 2019
Response via : Initial Calibration





#1

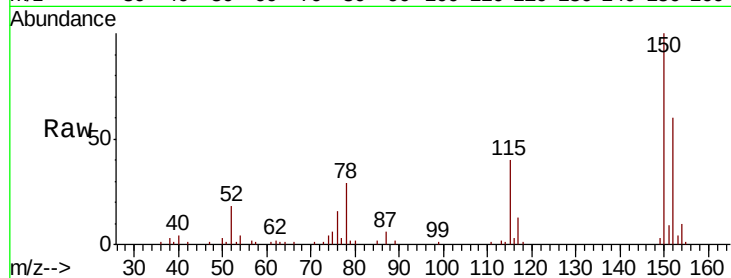
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.73 min Scan# 789
Delta R.T. -0.01 min
Lab File: BF117671.D
Acq: 31 Oct 2019 21:07

Instrument :
BNA_F
ClientSampleId :
OR-03-102919

Tot Ion	Ratio	Lower	Upper
152	100		
150	165.5	126.8	190.2
115	66.9	51.6	77.4

Manual Integrations
APPROVED

mohammad
11/1/2019 12:34:55 PM

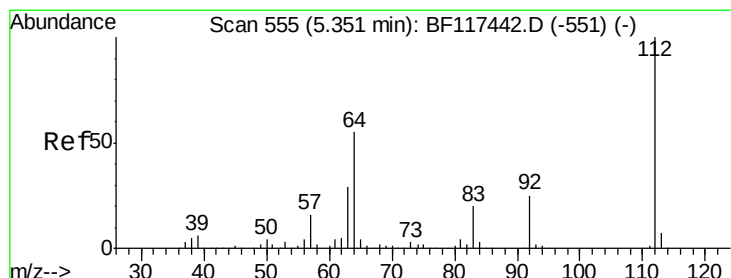
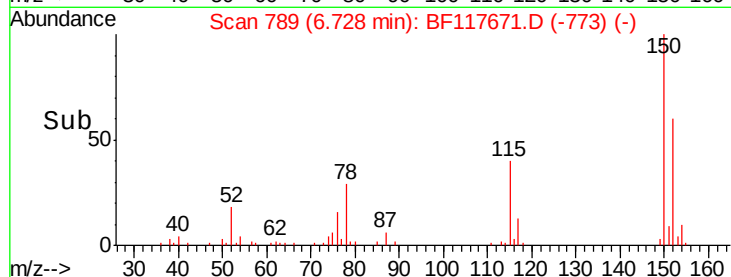
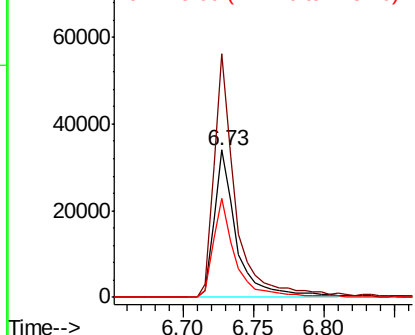


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

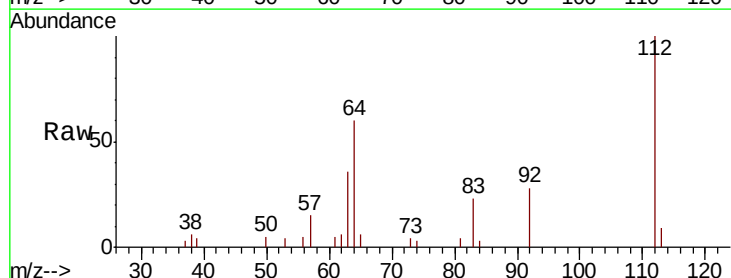
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 14.697 ng
RT: 5.38 min Scan# 560
Delta R.T. 0.03 min
Lab File: BF117671.D
Acq: 31 Oct 2019 21:07

Tgt Ion	Ratio	Lower	Upper
112	100		
64	60.0	44.1	66.1
63	36.3	23.4	35.2#

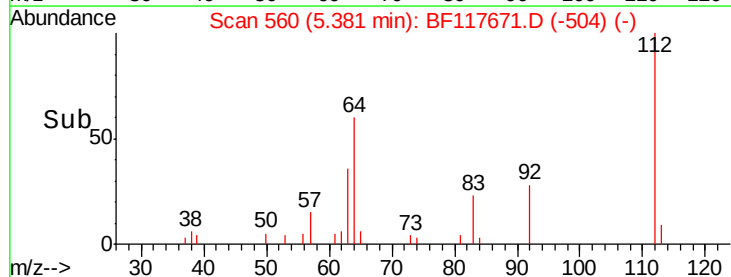
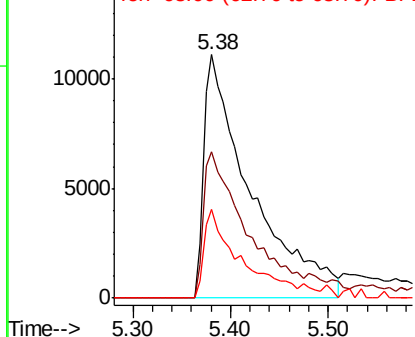


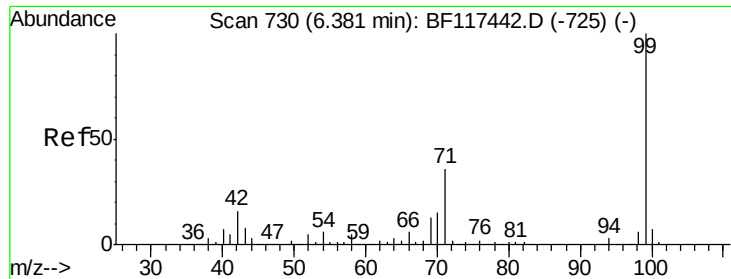
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 17.722 ng

RT: 6.41 min Scan# 735

Delta R.T. 0.03 min

Lab File: BF117671.D

Acq: 31 Oct 2019 21:07

Instrument :

BNA_F

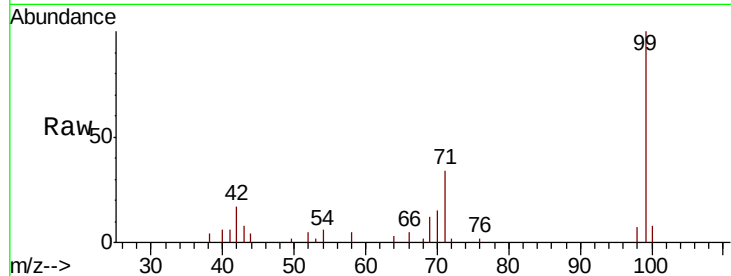
ClientSampled :

OR-03-102919

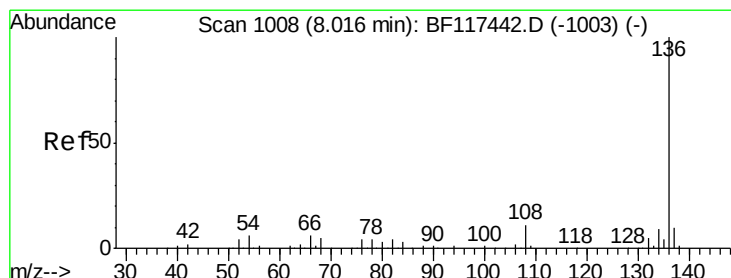
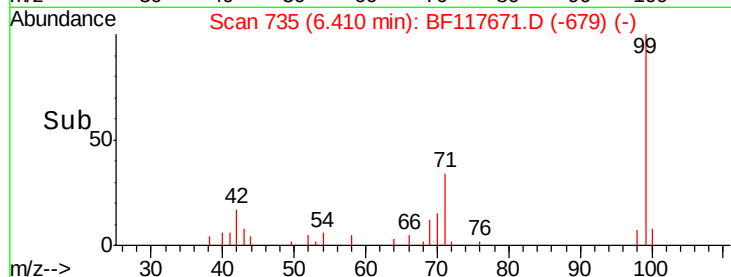
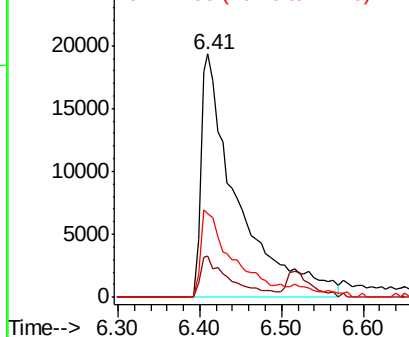
Tot Ion:	99	Resp:	59914
Ion	Ratio	Lower	Upper
99	100		
42	16.8	12.8	19.2
71	34.3	28.6	43.0

Manual Integrations
APPROVED

mohammad
11/1/2019 12:34:55 PM



Abundance Ion 99.00 (98.70 to 99.70): BF1
Ion 42.00 (41.70 to 42.70): BF1
Ion 71.00 (70.70 to 71.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.01 min Scan# 1007

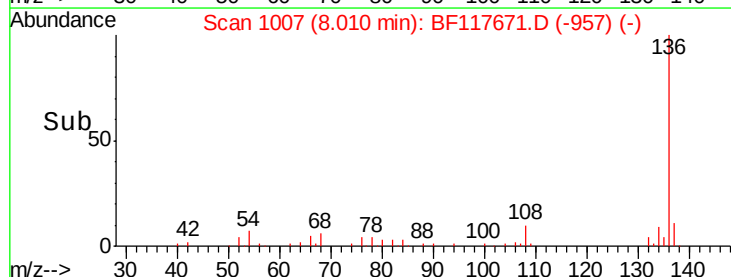
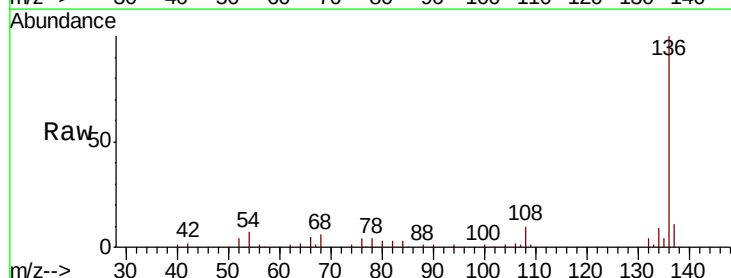
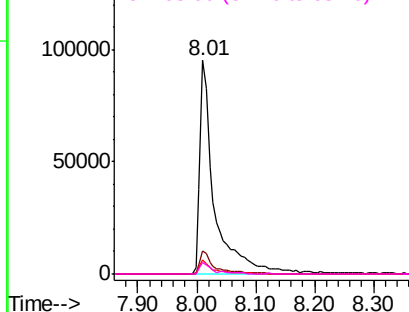
Delta R.T. -0.01 min

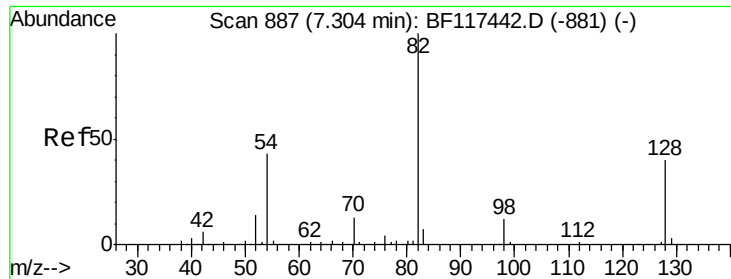
Lab File: BF117671.D

Acq: 31 Oct 2019 21:07

Tgt Ion:	136	Resp:	164253
Ion	Ratio	Lower	Upper
136	100		
137	10.7	8.2	12.4
54	6.8	4.5	6.7#
68	5.6	4.3	6.5

Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF1
Ion 68.00 (67.70 to 68.70): BF1





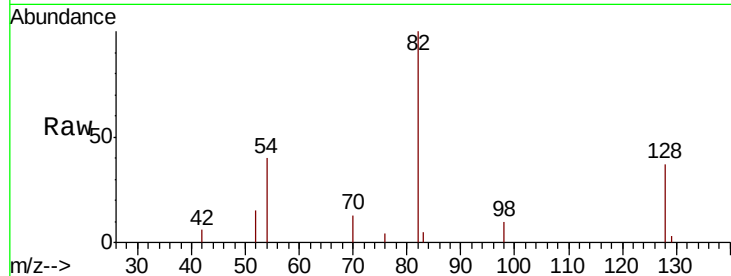
#23
Nitrobenzene-d5
Concen: 9.833 ng
RT: 7.32 min Scan# 889
Delta R.T. 0.01 min
Lab File: BF117671.D
Acq: 31 Oct 2019 21:07

Instrument :
BNA_F
ClientSampleId :
OR-03-102919

Tot Ion	Ratio	Lower	Upper
82	100		
128	37.5	32.2	48.2
54	40.3	34.2	51.2

Manual Integrations
APPROVED

mohammad
11/1/2019 12:34:55 PM

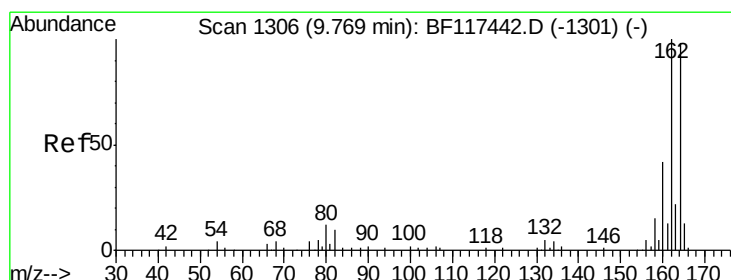
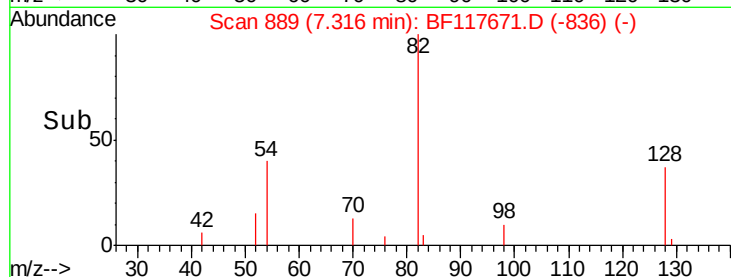
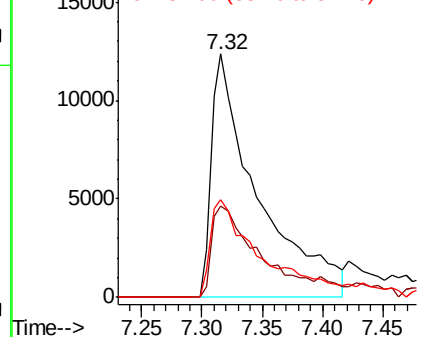


Abundance

Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.76 min Scan# 1305
Delta R.T. -0.01 min
Lab File: BF117671.D
Acq: 31 Oct 2019 21:07

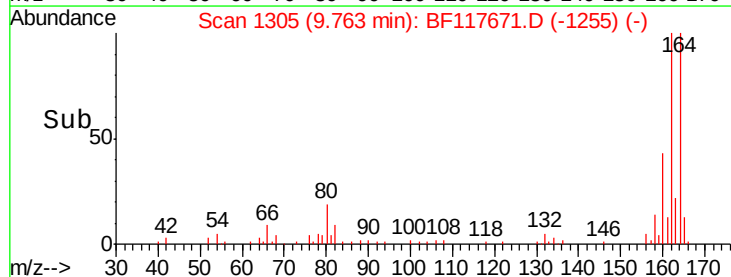
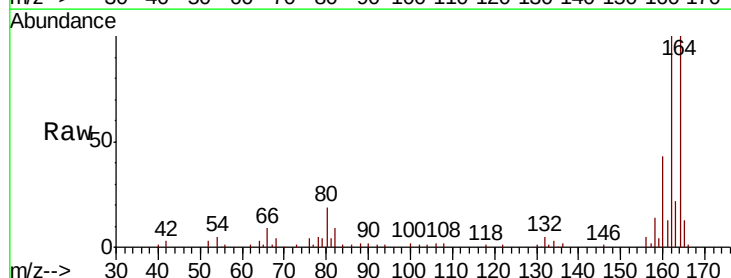
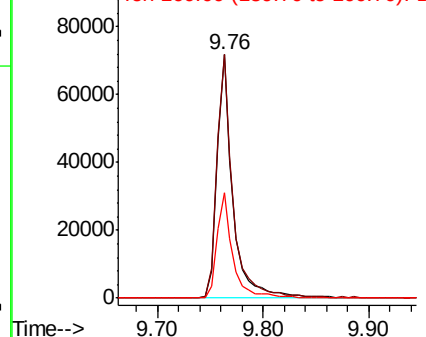
Tgt Ion	Ratio	Lower	Upper
164	100		
162	99.9	81.8	122.6
160	43.4	34.4	51.6

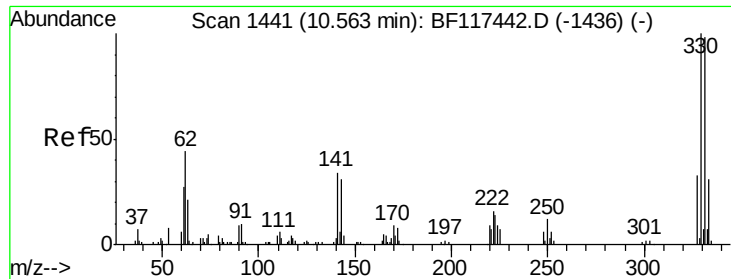
Abundance

Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#42

2,4,6-Tribromophenol

Concen: 12.576 ng

RT: 10.57 min Scan# 1442

Delta R.T. 0.01 min

Lab File: BF117671.D

Acq: 31 Oct 2019 21:07

Instrument :

BNA_F

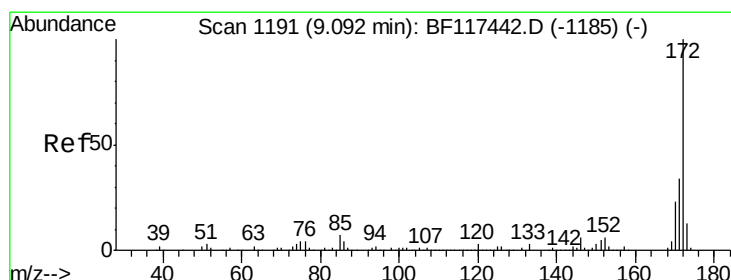
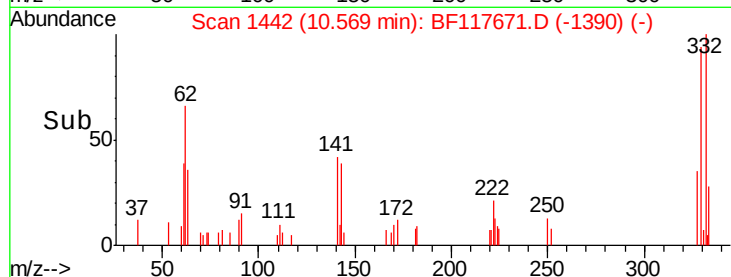
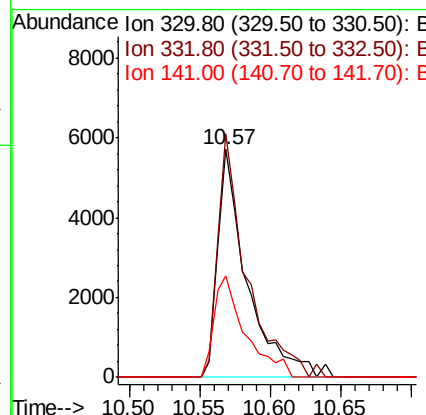
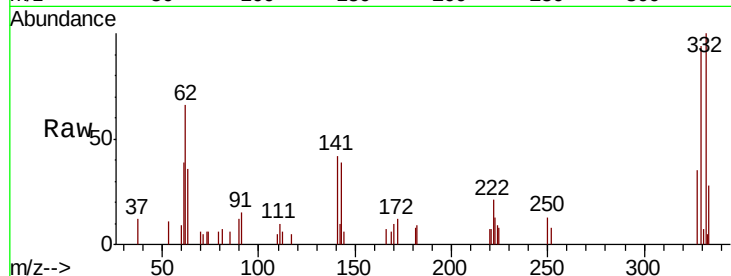
ClientSampleId :

OR-03-102919

Tot Ion:	330	Resp:	8293
Ion Ratio	Lower	Upper	
330	100		
332	104.7	78.5	117.7
141	47.4	37.0	55.6

Manual Integrations
APPROVED

mohammad
11/1/2019 12:34:55 PM



#45

2-Fluorobiphenyl

Concen: 11.173 ng

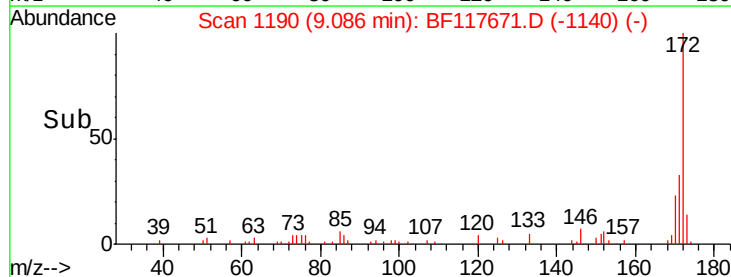
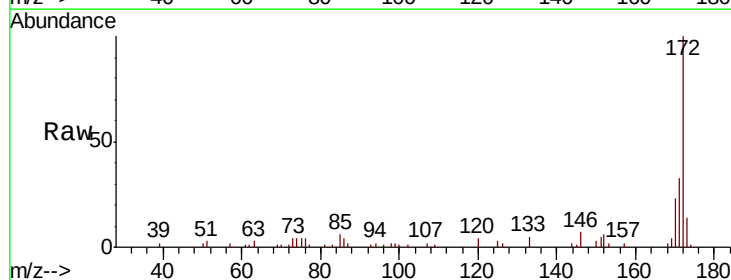
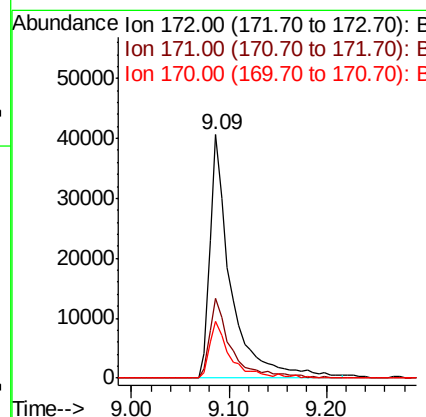
RT: 9.09 min Scan# 1190

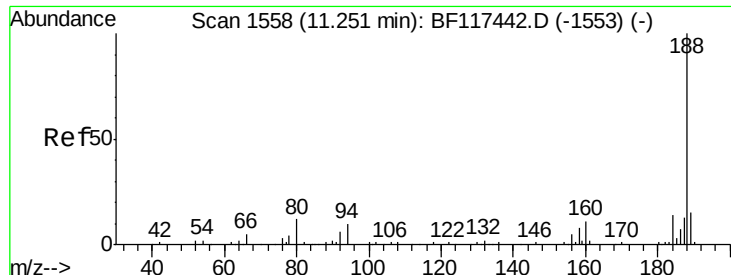
Delta R.T. -0.01 min

Lab File: BF117671.D

Acq: 31 Oct 2019 21:07

Tgt Ion:	172	Resp:	60436
Ion Ratio	Lower	Upper	
172	100		
171	32.7	27.5	41.3
170	23.1	18.6	27.8





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.25 min Scan# 1558

Delta R.T. -0.00 min

Lab File: BF117671.D

Acq: 31 Oct 2019 21:07

Instrument :

BNA_F

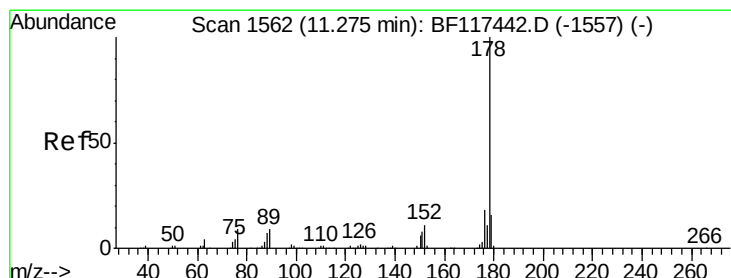
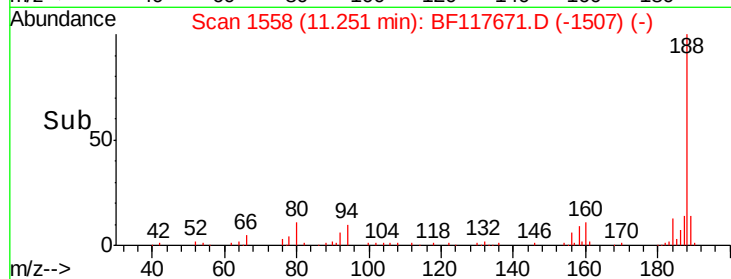
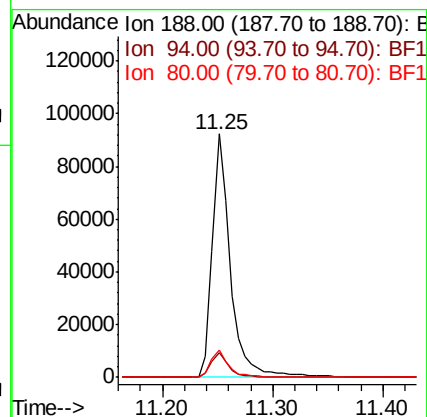
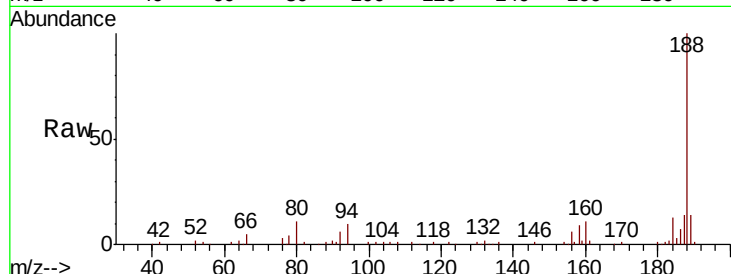
ClientSampleId :

OR-03-102919

Tot Ion:	188	Resp:	102589
Ion Ratio	Lower	Upper	
188	100		
94	10.3	8.0	12.0
80	11.4	9.5	14.3

Manual Integrations
APPROVED

mohammad
11/1/2019 12:34:55 PM



#71

Phenanthrene

Concen: 5.869 ng

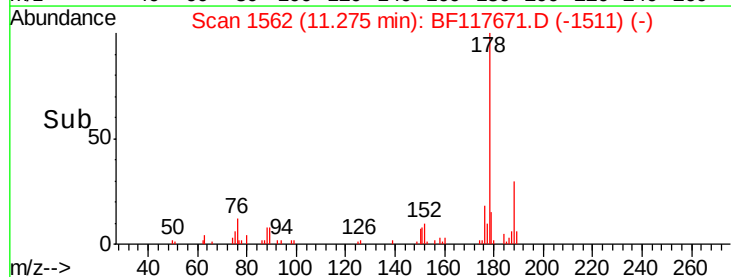
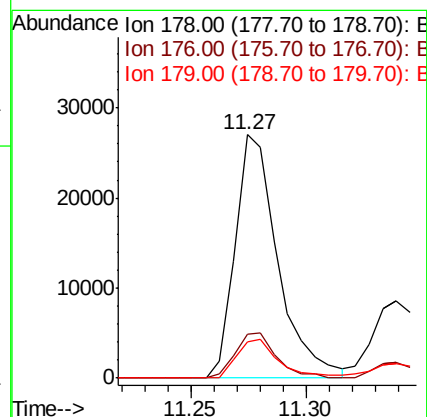
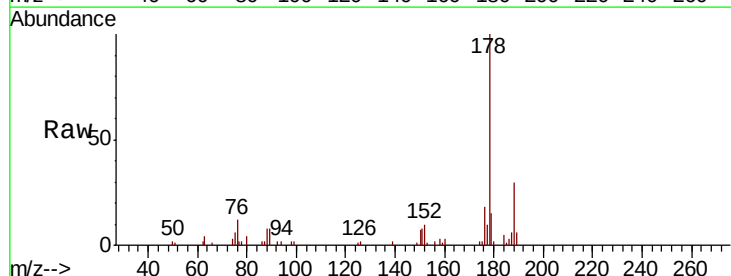
RT: 11.27 min Scan# 1562

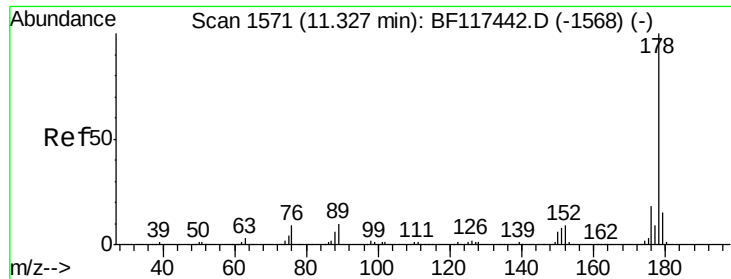
Delta R.T. -0.00 min

Lab File: BF117671.D

Acq: 31 Oct 2019 21:07

Tgt Ion:	178	Resp:	34963
Ion Ratio	Lower	Upper	
178	100		
176	18.3	14.6	22.0
179	14.9	12.6	19.0





#72

Anthracene

Concen: 2.294 ng/mL

RT: 11.34 min Scan# 1573

Delta R.T. 0.01 min

Lab File: BF117671.D

Acq: 31 Oct 2019 21:07

Instrument :

BNA_F

ClientSampleId :

OR-03-102919

Tot Ion:178 Resp: 14019

Ion Ratio Lower Upper

178 100

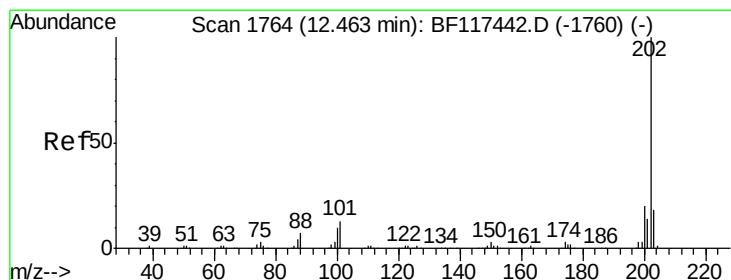
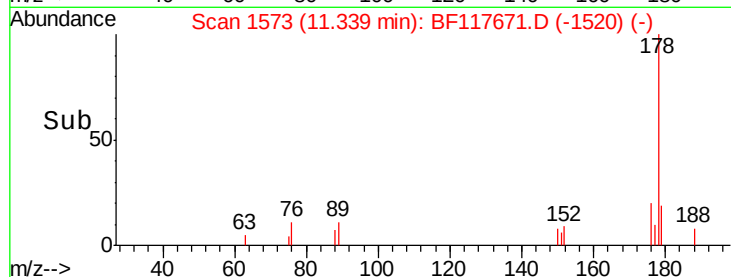
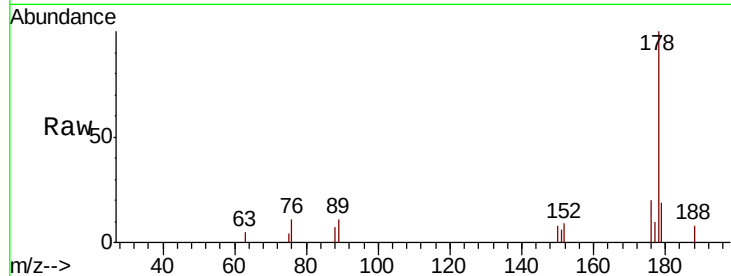
176 20.1 14.7 22.1

179 18.7 12.2 18.2#

Manual Integrations
APPROVED

mohammad

11/1/2019 12:34:55 PM



#75

Fluoranthene

Concen: 12.249 ng/mL

RT: 12.47 min Scan# 1765

Delta R.T. 0.01 min

Lab File: BF117671.D

Acq: 31 Oct 2019 21:07

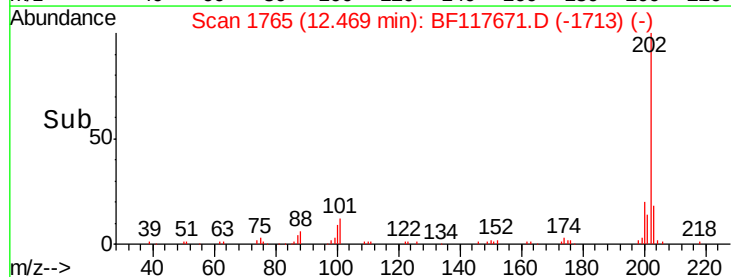
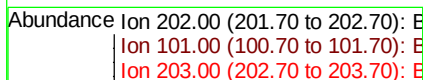
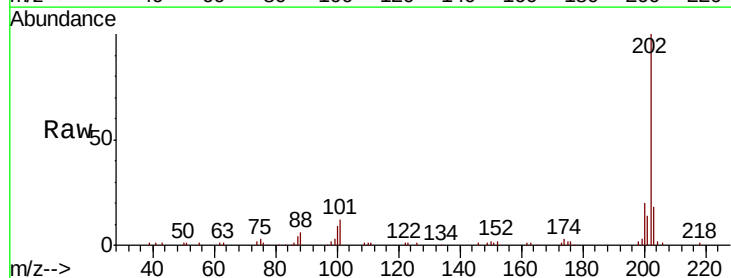
Tgt Ion:202 Resp: 73043

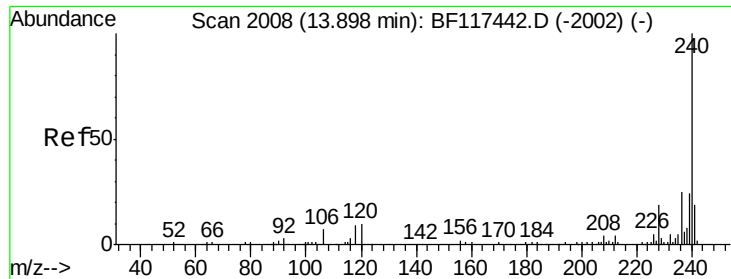
Ion Ratio Lower Upper

202 100

101 12.3 0.0 32.7

203 17.8 0.0 37.6





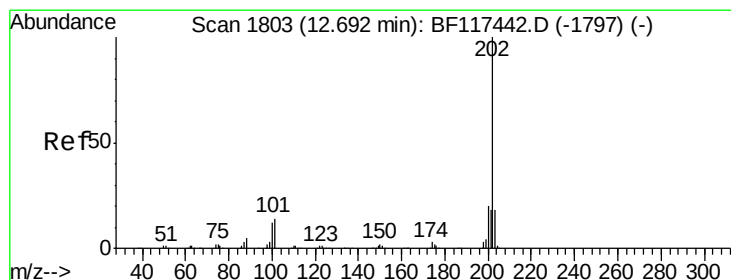
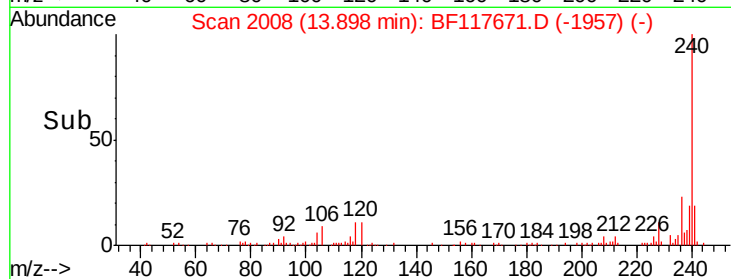
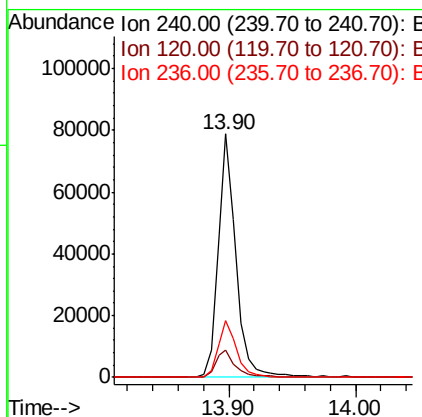
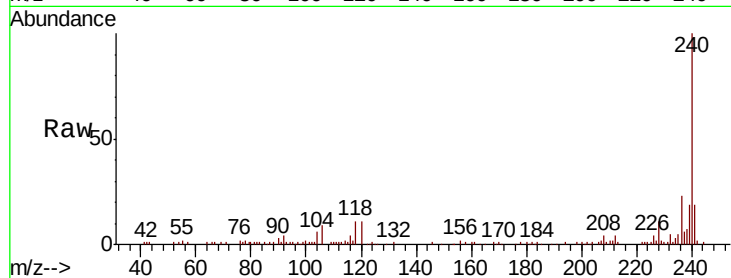
#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.90 min Scan# 2008
Delta R.T. -0.00 min
Lab File: BF117671.D
Acq: 31 Oct 2019 21:07

Instrument :
BNA_F
ClientSampleId :
OR-03-102919

Tot Ion	Ratio	Lower	Upper
240	100		
120	11.3	8.4	12.6
236	23.1	20.0	30.0

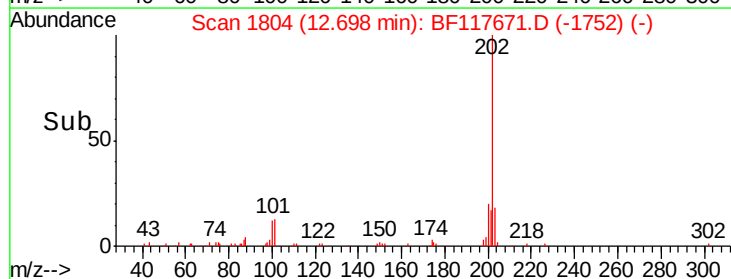
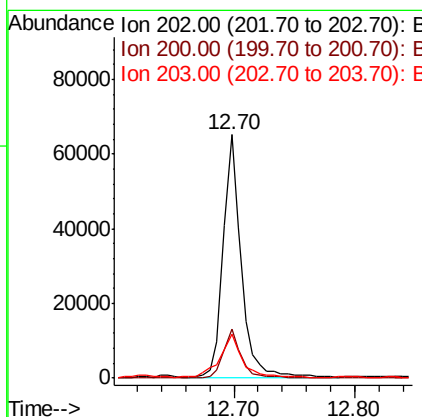
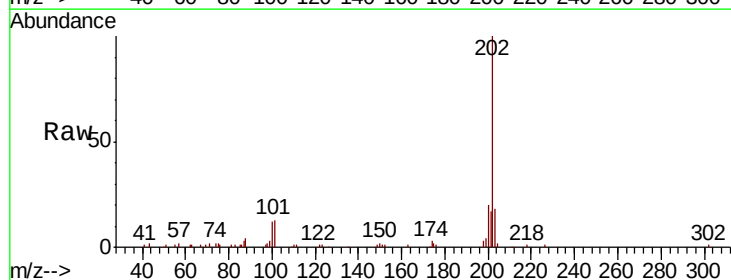
Manual Integrations
APPROVED

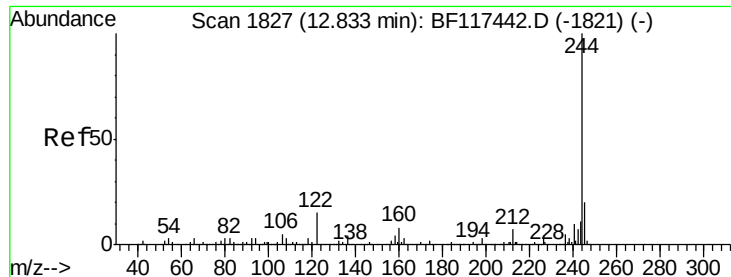
mohammad
11/1/2019 12:34:55 PM



#78
Pyrene
Concen: 10.285 ng
RT: 12.70 min Scan# 1804
Delta R.T. 0.01 min
Lab File: BF117671.D
Acq: 31 Oct 2019 21:07

Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.1	16.2	24.2
203	18.2	14.0	21.0





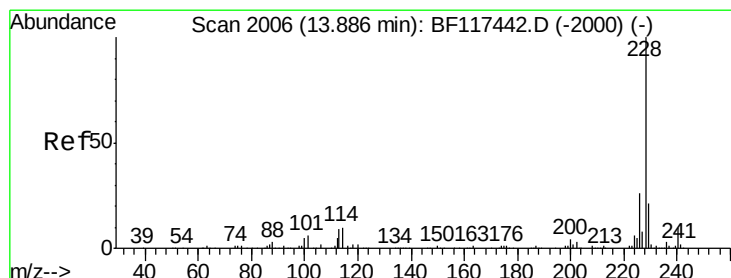
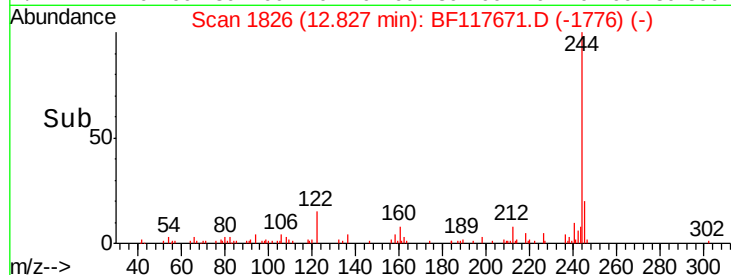
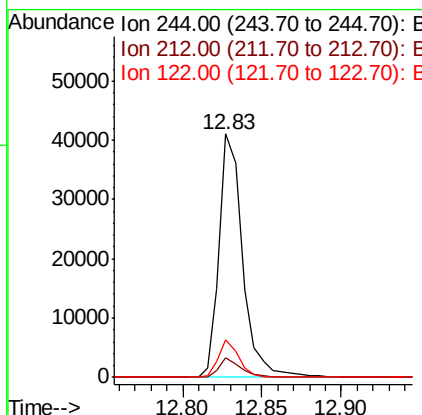
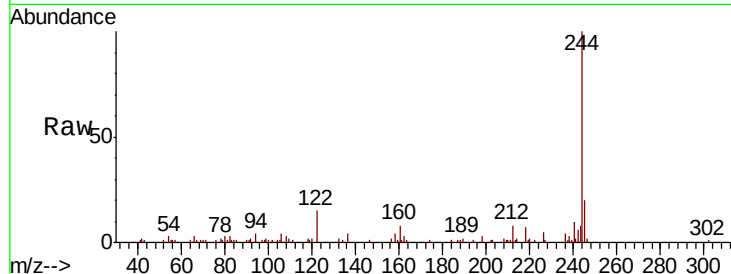
#79
 Terphenyl-d14
 Concen: 8.917 ng
 RT: 12.83 min Scan# 1826
 Delta R.T. -0.01 min
 Lab File: BF117671.D
 Acq: 31 Oct 2019 21:07

Instrument :
 BNA_F
 ClientSampleID :
 OR-03-102919

Tot Ion	Ratio	Lower	Upper
244	100		
212	7.9	5.8	8.6
122	15.3	11.8	17.8

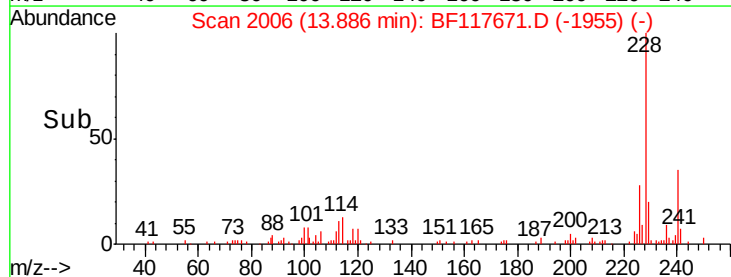
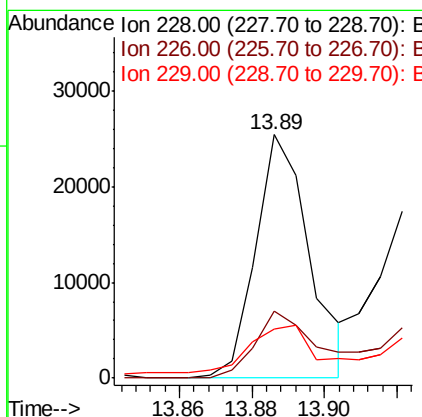
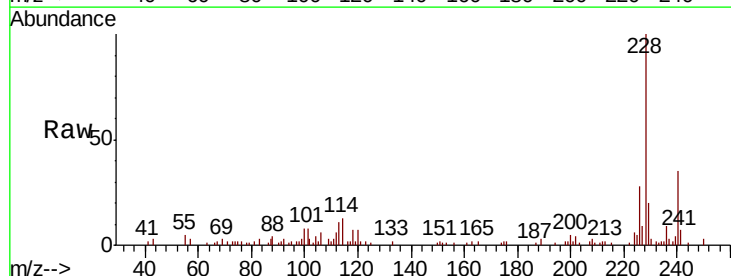
Manual Integrations
 APPROVED

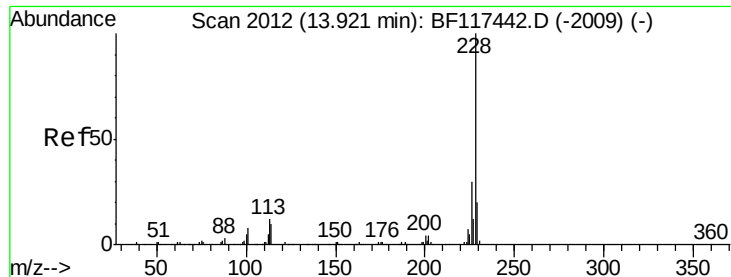
mohammad
 11/1/2019 12:34:55 PM



#81
 Benzo(a)anthracene
 Concen: 5.026 ng
 RT: 13.89 min Scan# 2006
 Delta R.T. -0.00 min
 Lab File: BF117671.D
 Acq: 31 Oct 2019 21:07

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.6	21.0	31.4
229	20.3	16.4	24.6





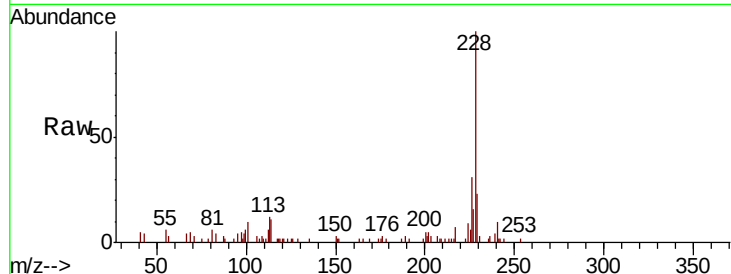
#83
Chrysene
Concen: 5.022 ng
RT: 13.93 min Scan# 2013
Delta R.T. 0.01 min
Lab File: BF117671.D
Acq: 31 Oct 2019 21:07

Instrument :
BNA_F
ClientSampleId :
OR-03-102919

Tot Ion	Ratio	Lower	Upper
228	100		
226	30.9	23.9	35.9
229	23.5	15.8	23.6

Manual Integrations
APPROVED

mohammad
11/1/2019 12:34:55 PM

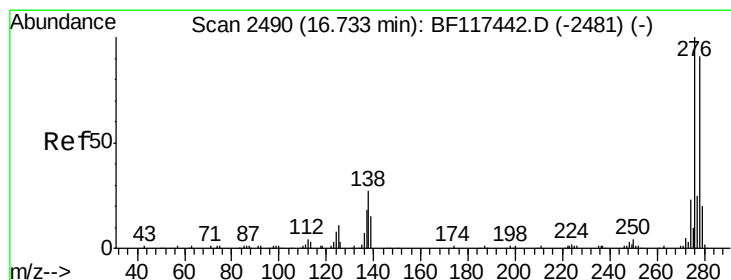
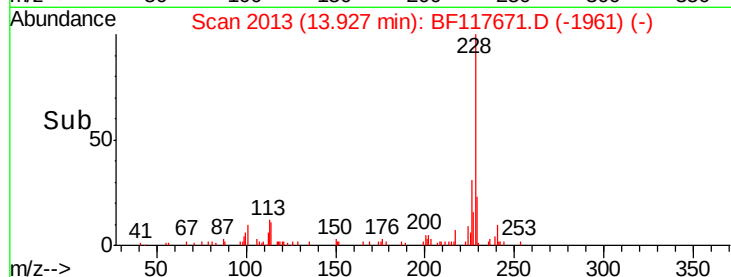
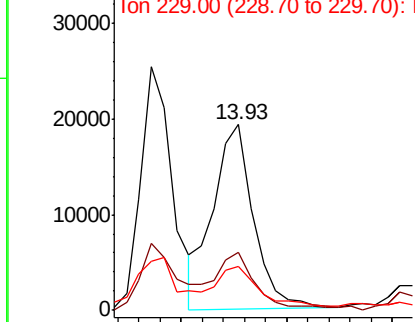


Abundance

Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#86
Indeno(1,2,3-cd)pyrene
Concen: 2.053 ng
RT: 16.78 min Scan# 2498
Delta R.T. 0.05 min
Lab File: BF117671.D
Acq: 31 Oct 2019 21:07

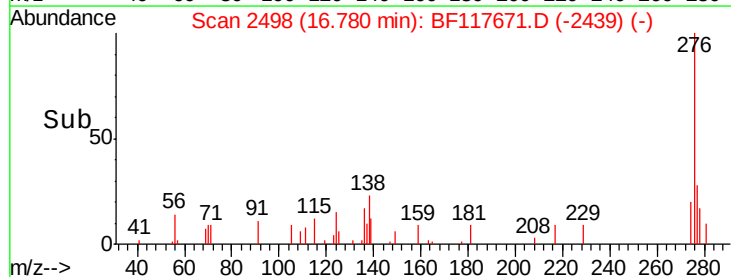
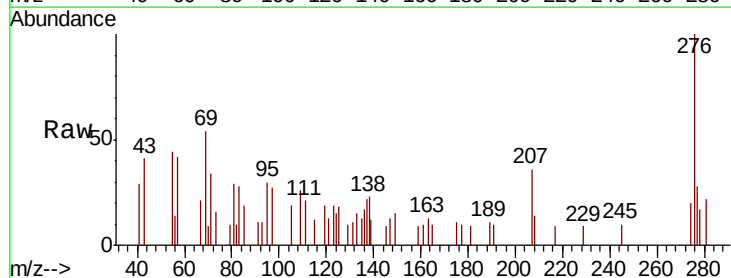
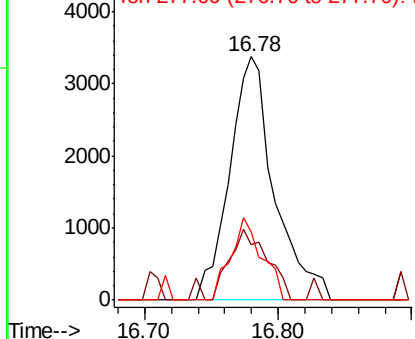
Tgt Ion	Ratio	Lower	Upper
276	100		
138	24.7	21.8	32.8
277	23.9	20.0	30.0

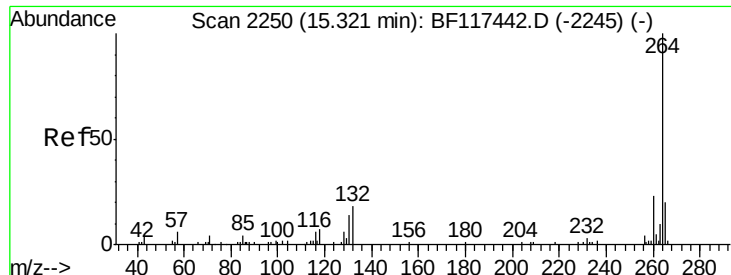
Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





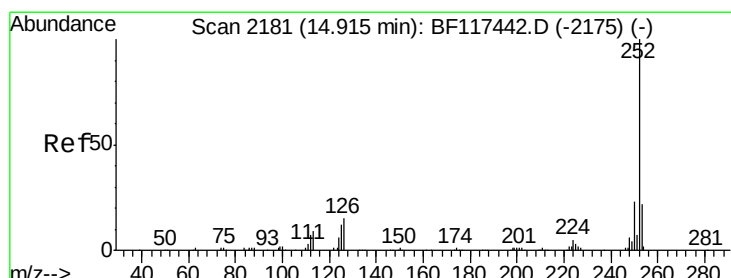
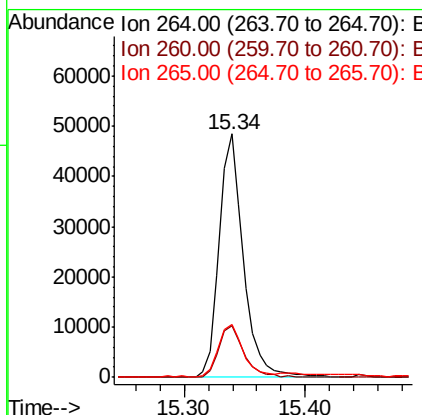
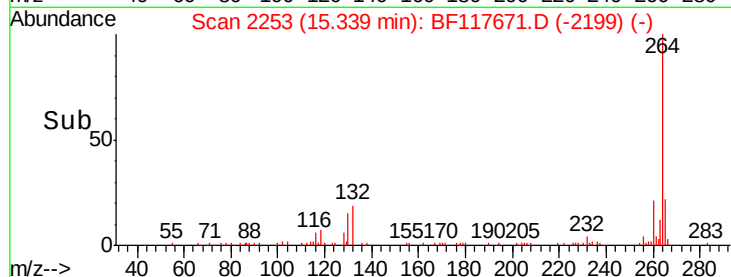
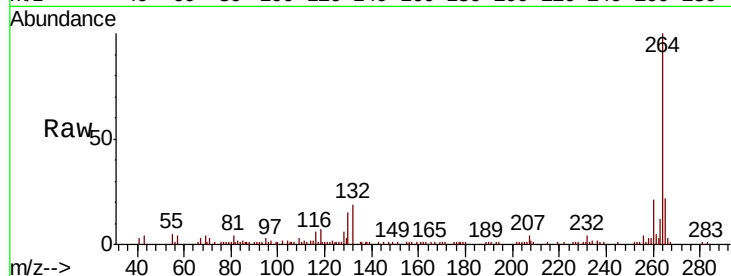
#87
Pervlene-d12
Concen: 20.000 ng
RT: 15.34 min Scan# 2253
Delta R.T. 0.02 min
Lab File: BF117671.D
Acq: 31 Oct 2019 21:07

Instrument :
BNA_F
ClientSampleId :
OR-03-102919

Tot Ion	Ratio	Lower	Upper
264	100		
260	21.0	18.4	27.6
265	21.6	16.1	24.1

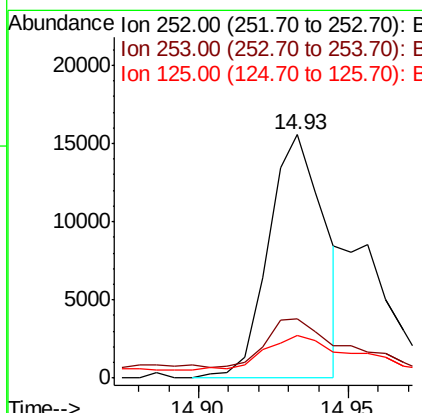
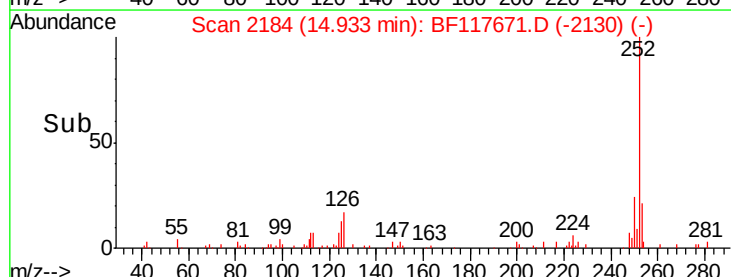
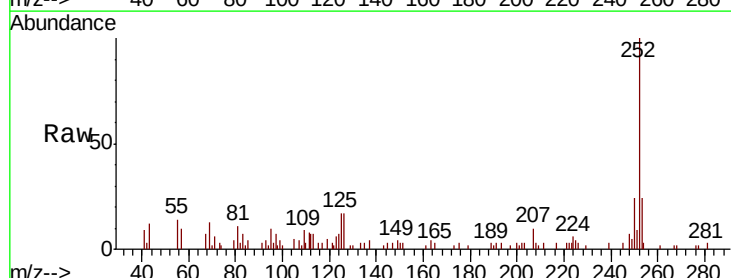
Manual Integrations
APPROVED

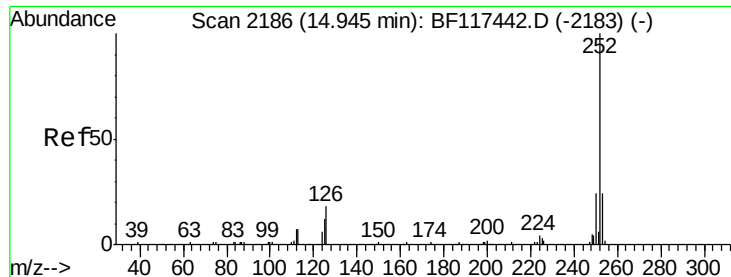
mohammad
11/1/2019 12:34:55 PM



#88
Benzo(b)fluoranthene
Concen: 5.148 ng m
RT: 14.93 min Scan# 2184
Delta R.T. 0.02 min
Lab File: BF117671.D
Acq: 31 Oct 2019 21:07

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.2	17.8	26.6
125	17.3	9.9	14.9#





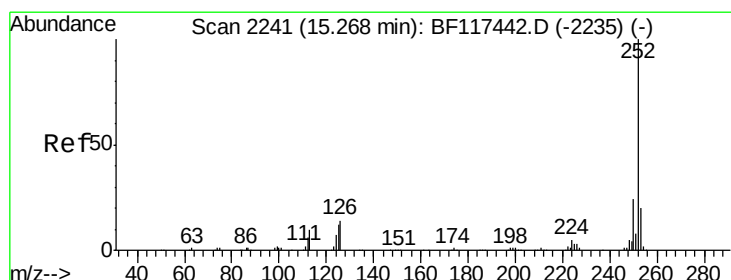
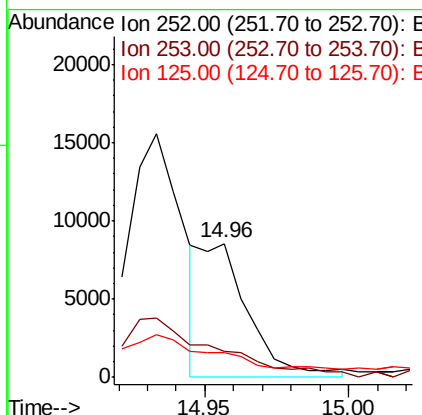
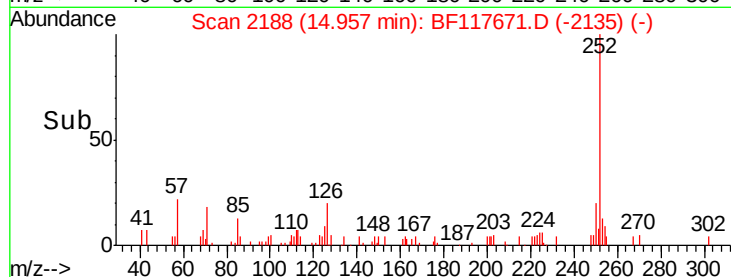
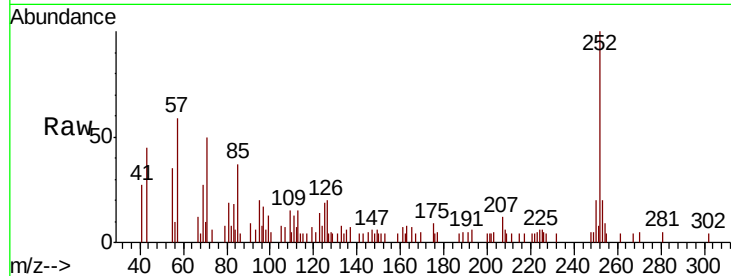
#89
Benzo(k)fluoranthene
Concen: 2.417 ng m
RT: 14.96 min Scan# 2188
Delta R.T. 0.01 min
Lab File: BF117671.D
Acq: 31 Oct 2019 21:07

Instrument :
BNA_F
ClientSampleId :
OR-03-102919

Tot Ion	Ratio	Lower	Upper
252	100		
253	19.6	18.0	27.0
125	18.7	8.9	13.3

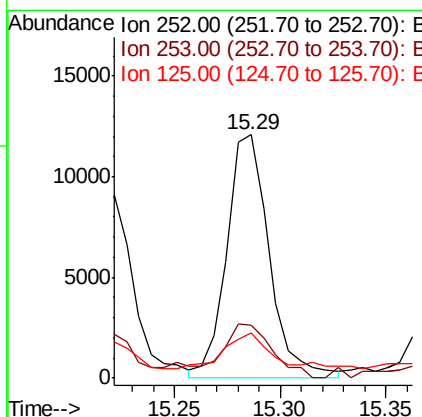
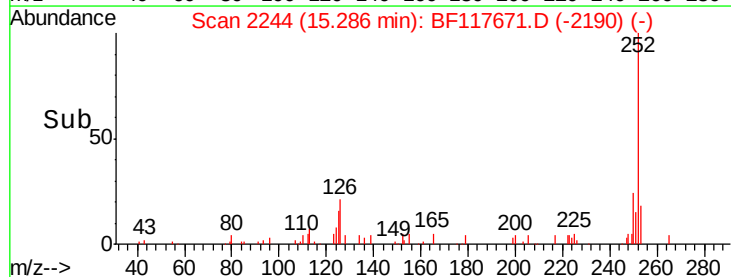
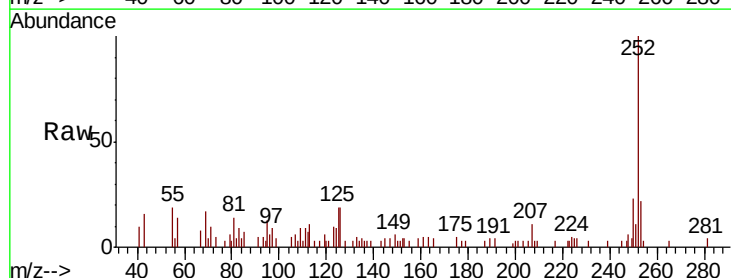
Manual Integrations
APPROVED

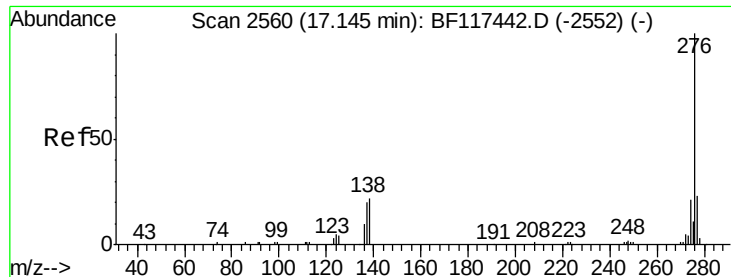
mohammad
11/1/2019 12:34:55 PM



#90
Benzo(a)pyrene
Concen: 4.692 ng
RT: 15.29 min Scan# 2244
Delta R.T. 0.02 min
Lab File: BF117671.D
Acq: 31 Oct 2019 21:07

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.9	16.3	24.5
125	18.7	9.2	13.8





#92
 Benzo(a,h,i)perylene
 Concen: 2.506 ng
 RT: 17.21 min Scan# 2571
 Delta R.T. 0.06 min
 Lab File: BF117671.D
 Acq: 31 Oct 2019 21:07

Instrument :
 BNA_F
 ClientSampleId :
 OR-03-102919

Tot Ion	Ratio	Lower	Upper
276	100		
277	24.6	18.4	27.6
138	18.8	17.8	26.6

Manual Integrations
 APPROVED

mohammad
 11/1/2019 12:34:55 PM

