

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF100220\
 Data File : BF121806.D
 Acq On : 2 Oct 2020 21:23
 Operator : JU/CG
 Sample : L4213-11
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 DUP-3

Manual Integrations
 APPROVED

mohammad
 10/5/2020 10:27:55 AM

Quant Time: Oct 03 07:34:43 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF091020.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Oct 01 14:29:14 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.76	152	102133	20.00	ng	0.00
21) Naphthalene-d8	8.05	136	338621	20.00	ng	-0.01
39) Acenaphthene-d10	9.80	164	150976	20.00	ng	0.00
64) Phenanthrene-d10	11.29	188	268469	20.00	ng	0.00
76) Chrysene-d12	13.93	240	263501	20.00	ng	0.00
86) Perylene-d12	15.36	264	261041	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.39	112	564482	82.14	ng	0.00
7) Phenol-d6	6.40	99	686000	76.09	ng	-0.01
23) Nitrobenzene-d5	7.33	82	442775	70.21	ng	-0.01
42) 2,4,6-Tribromophenol	10.59	330	152201	81.11	ng	-0.01
45) 2-Fluorobiphenyl	9.12	172	716936	71.92	ng	-0.01
79) Terphenyl-d14	12.87	244	700155	53.83	ng	-0.01
Target Compounds						
49) Acenaphthylene	9.66	152	54632	3.733	ng	# 78
50) Dimethylphthalate	9.52	163	81005	7.403	ng	# 58
52) Acenaphthene	9.83	154	28722	3.107	ng	96
55) Dibenzofuran	10.00	168	27647	2.124	ng	# 69
58) Fluorene	10.35	166	30472	3.061	ng	# 94
71) Phenanthrene	11.31	178	484973	33.155	ng	98
72) Anthracene	11.36	178	148820	9.859	ng	98
73) Carbazole	11.52	167	47905	3.517	ng	# 83
75) Fluoranthene	12.50	202	938134	60.081	ng	99
78) Pyrene	12.73	202	885465	45.993	ng	99
81) Benzo(a)anthracene	13.92	228	591909	35.507	ng	98
83) Chrysene	13.95	228	557883	33.048	ng	98
87) Indeno(1,2,3-cd)pyrene	16.78	276	340147	20.009	ng	94
88) Benzo(b)fluoranthene	14.96	252	780308m	44.715	ng	
89) Benzo(k)fluoranthene	14.97	252	247256m	15.472	ng	
90) Benzo(a)pyrene	15.30	252	464338	31.303	ng	96
91) Dibenzo(a,h)anthracene	16.78	278	85468m	6.040	ng	
92) Benzo(g,h,i)perylene	17.20	276	299758	21.549	ng	100

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

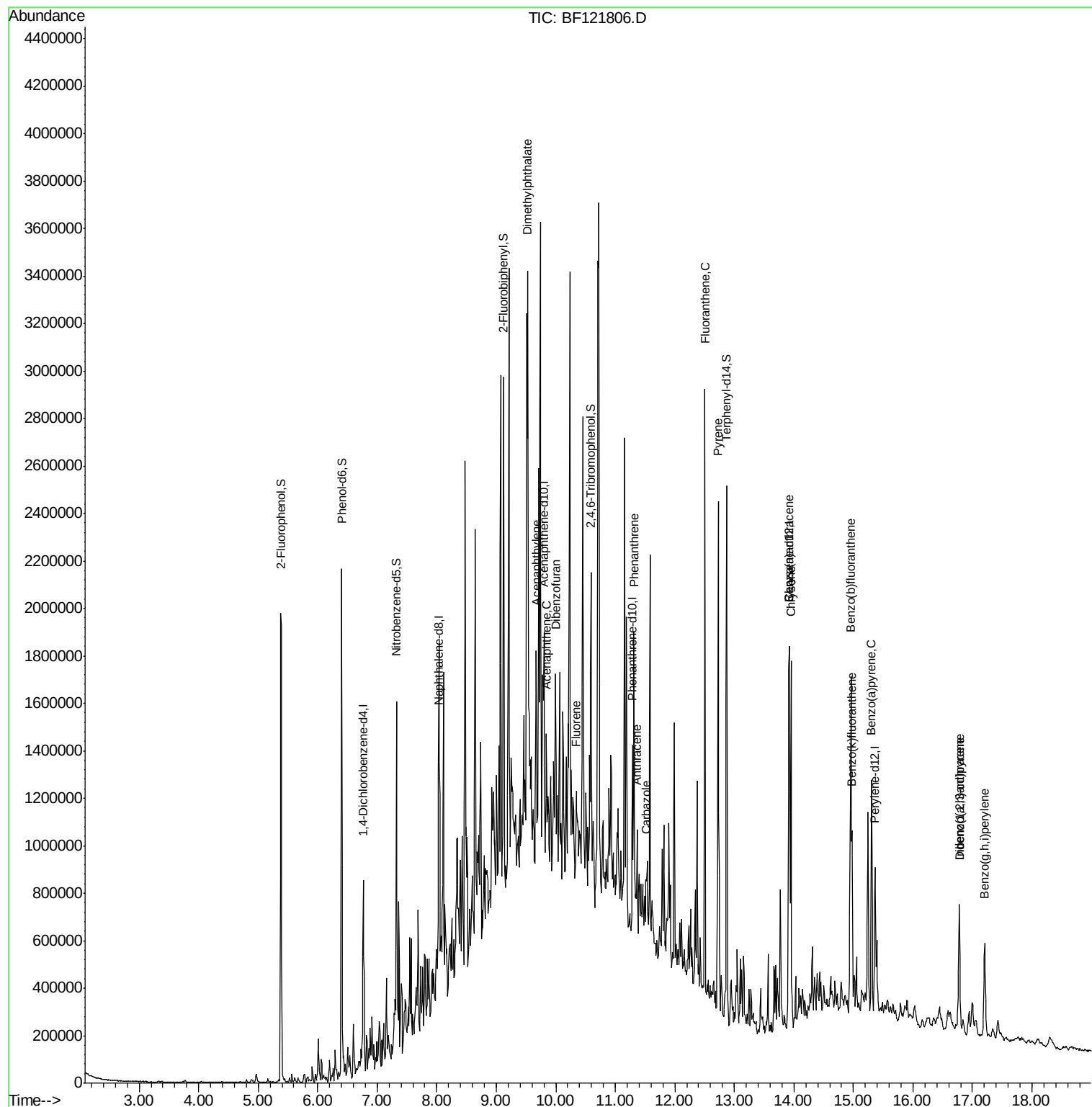
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF100220\
Data File : BF121806.D
Acq On : 2 Oct 2020 21:23
Operator : JU/CG
Sample : L4213-11
Misc :
ALS Vial : 21 Sample Multiplier: 1

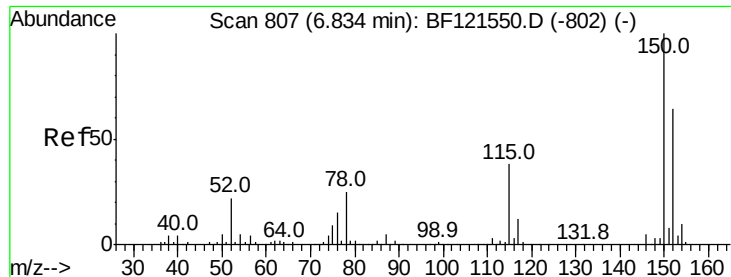
Instrument :
BNA_F
ClientSampleID :
DUP-3

Manual Integrations
APPROVED

mohammad
10/5/2020 10:27:55 AM

Quant Time: Oct 03 07:34:43 2020
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF091020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Oct 01 14:29:14 2020
Response via : Initial Calibration





#1

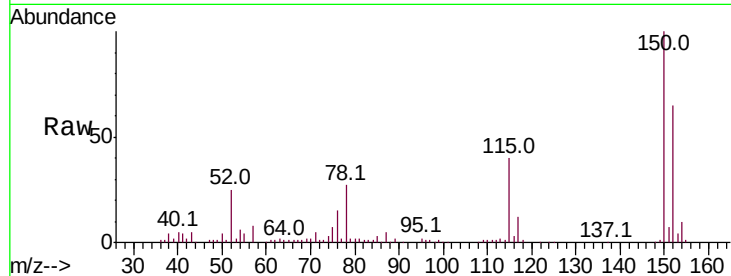
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.76 min Scan# 795
Delta R.T. -0.01 min
Lab File: BF121806.D
Acq: 2 Oct 2020 21:23

Instrument :
BNA_F
ClientSampled :
DUP-3

Tot Ion	Ratio	Lower	Upper
152	100		
150	154.2	125.3	187.9
115	62.3	51.9	77.9

Manual Integrations
APPROVED

mohammad
10/5/2020 10:27:55 AM



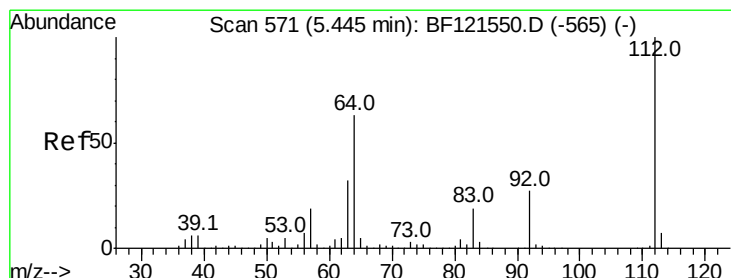
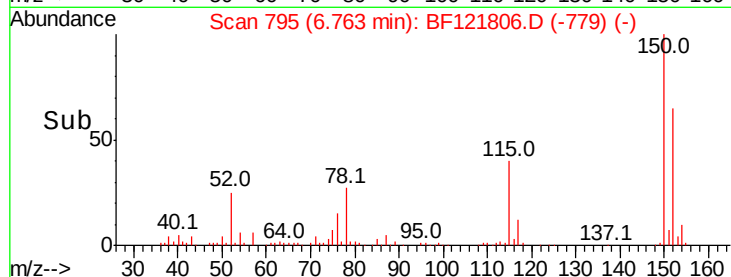
Abundance

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

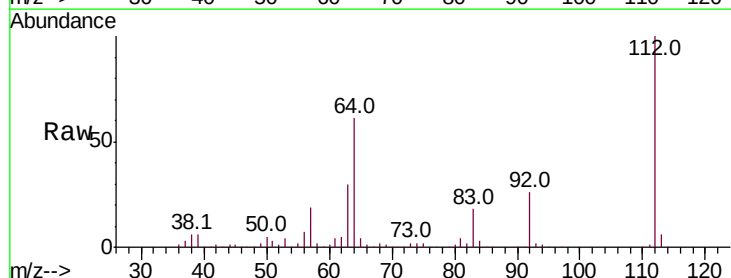
Time-->



#5

2-Fluorophenol
Concen: 82.137 ng
RT: 5.39 min Scan# 561
Delta R.T. 0.00 min
Lab File: BF121806.D
Acq: 2 Oct 2020 21:23

Tgt Ion	Ratio	Lower	Upper
112	100		
64	60.7	50.4	75.6
63	30.3	25.8	38.6



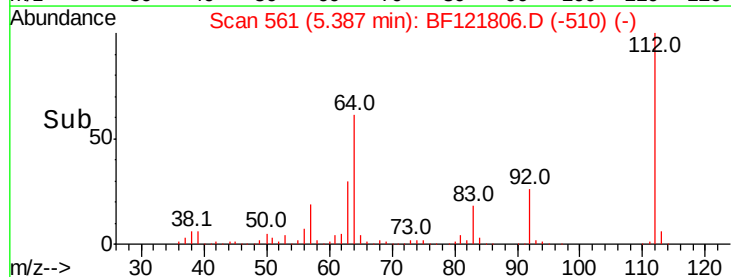
Abundance

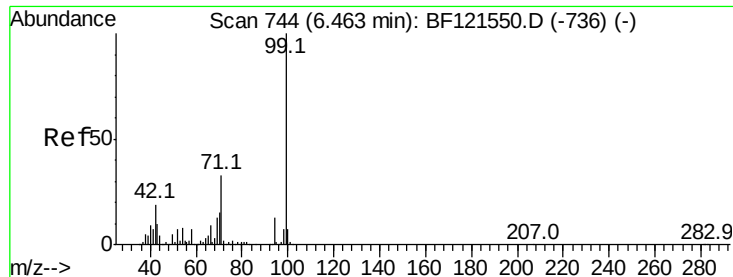
Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1

Time-->





#7

Phenol-d6

Concen: 76.085 ng

RT: 6.40 min Scan# 734

Delta R.T. -0.01 min

Lab File: BF121806.D

Acq: 2 Oct 2020 21:23

Instrument :

BNA_F

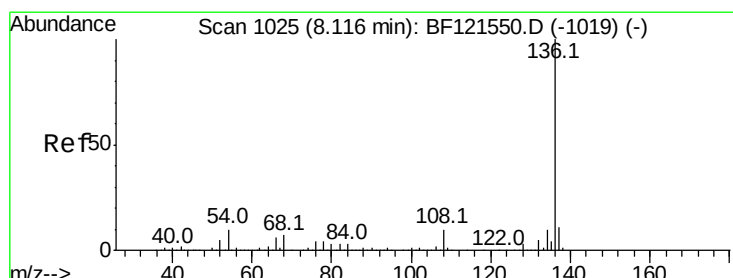
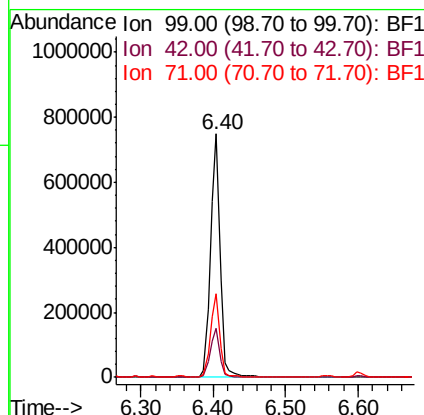
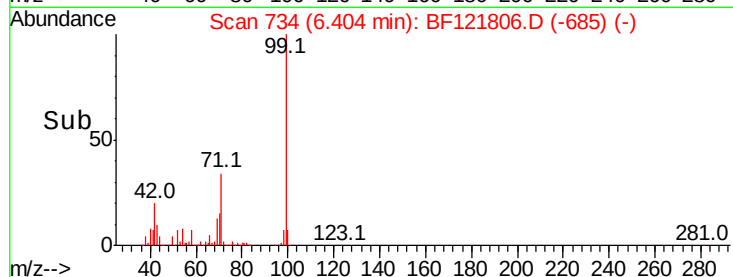
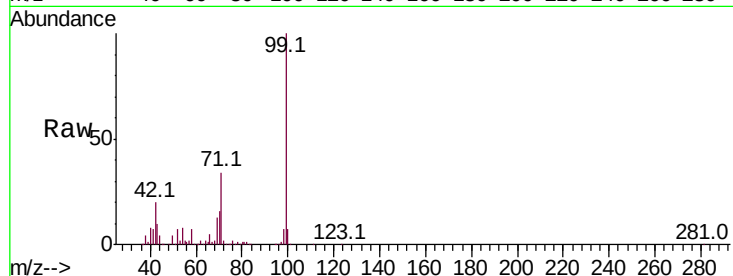
ClientSampled :

DUP-3

Tot Ion:	99	Resp:	686000
Ion Ratio	Lower	Upper	
99	100		
42	20.2	15.9	23.9
71	34.2	27.1	40.7

Manual Integrations
APPROVED

mohammad
10/5/2020 10:27:55 AM



#21

Naphthalene-d8

Concen: 20.000 ng

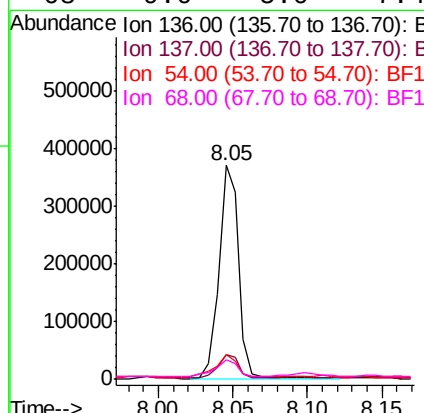
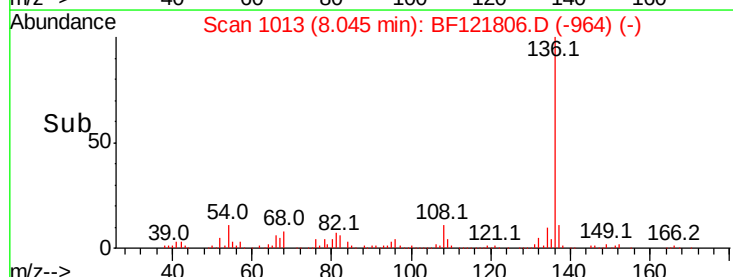
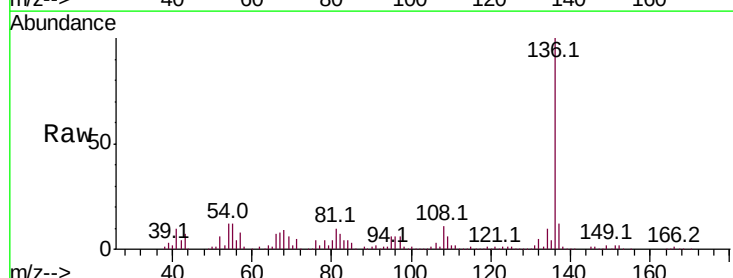
RT: 8.05 min Scan# 1013

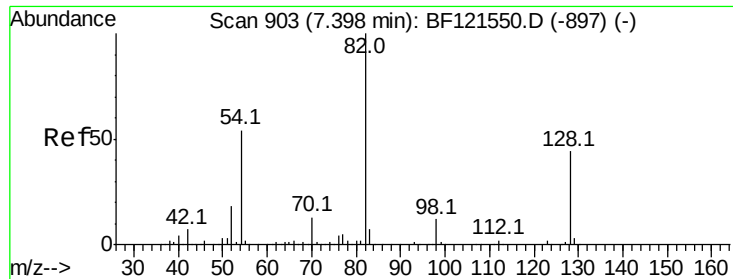
Delta R.T. -0.01 min

Lab File: BF121806.D

Acq: 2 Oct 2020 21:23

Tgt Ion:	136	Resp:	338621
Ion Ratio	Lower	Upper	
136	100		
137	11.6	8.6	13.0
54	11.6	7.1	10.7#
68	9.0	5.0	7.4#





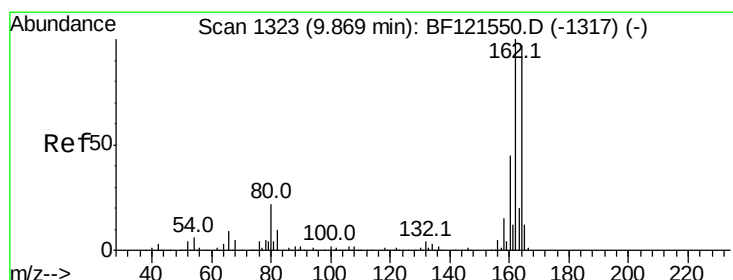
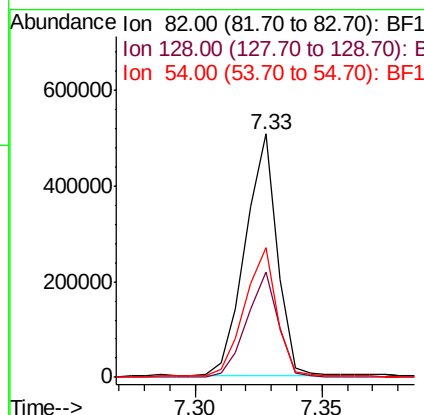
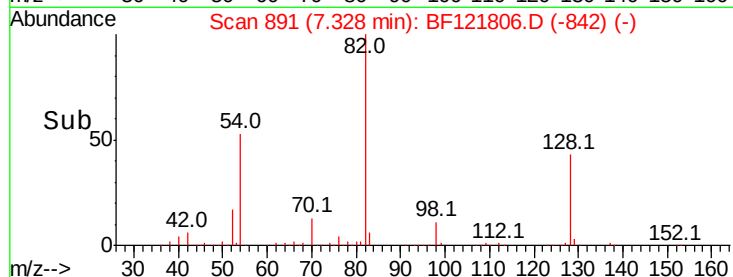
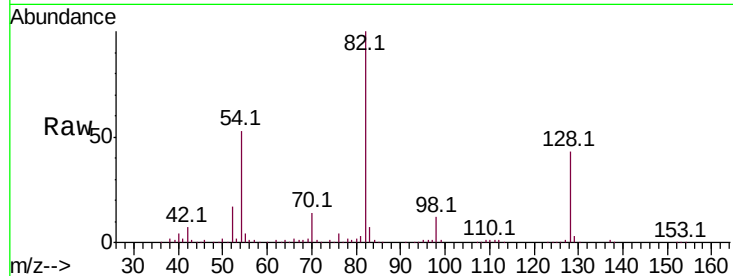
#23
Nitrobenzene-d5
Concen: 70.206 ng
RT: 7.33 min Scan# 891
Delta R.T. -0.01 min
Lab File: BF121806.D
Acq: 2 Oct 2020 21:23

Instrument :
BNA_F
ClientSampled :
DUP-3

Tot Ion	Ratio	Lower	Upper
82	100		
128	43.1	35.0	52.4
54	53.1	43.9	65.9

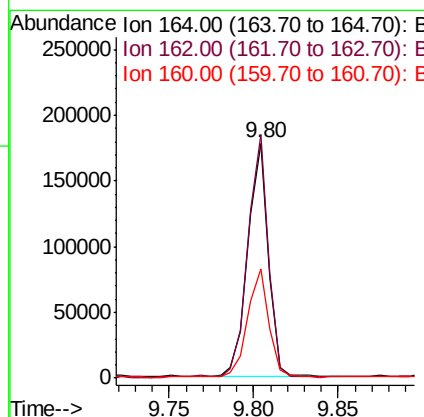
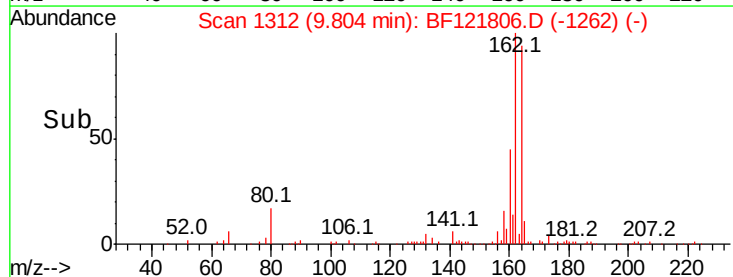
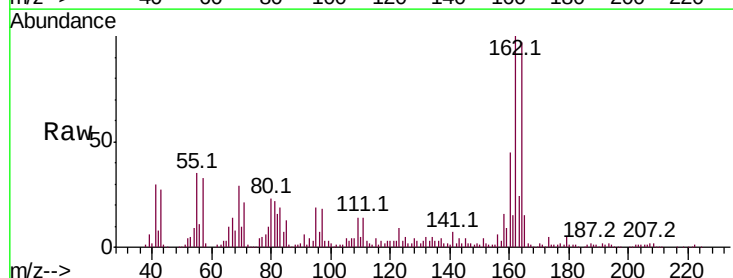
Manual Integrations
APPROVED

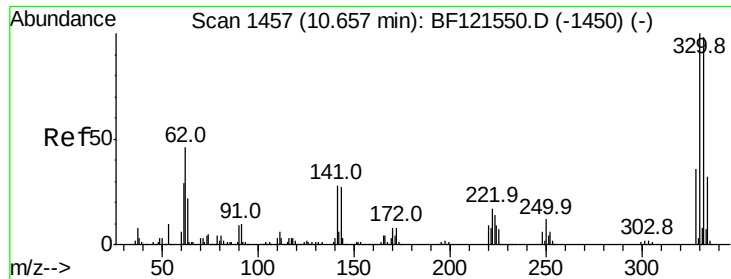
mohammad
10/5/2020 10:27:55 AM



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.80 min Scan# 1312
Delta R.T. -0.01 min
Lab File: BF121806.D
Acq: 2 Oct 2020 21:23

Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.5	83.2	124.8
160	46.5	37.5	56.3





#42

2,4,6-Tribromophenol

Concen: 81.112 ng

RT: 10.59 min Scan# 1446

Delta R.T. -0.01 min

Lab File: BF121806.D

Acq: 2 Oct 2020 21:23

Instrument :

BNA_F

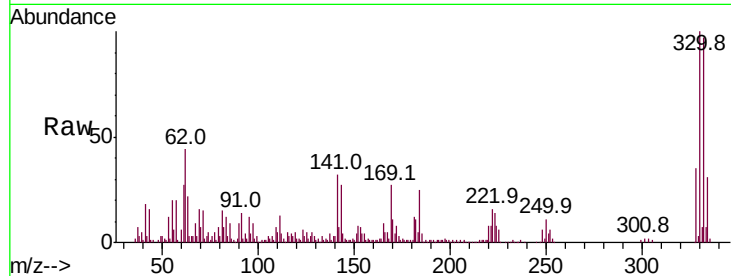
ClientSampleId :

DUP-3

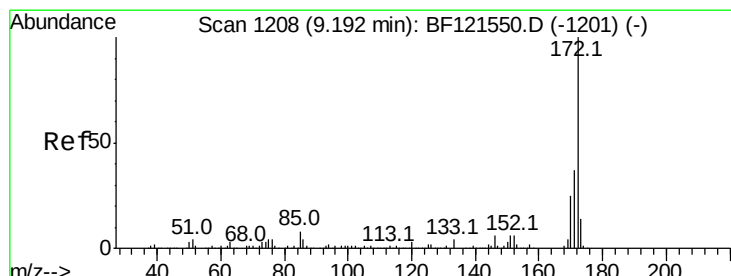
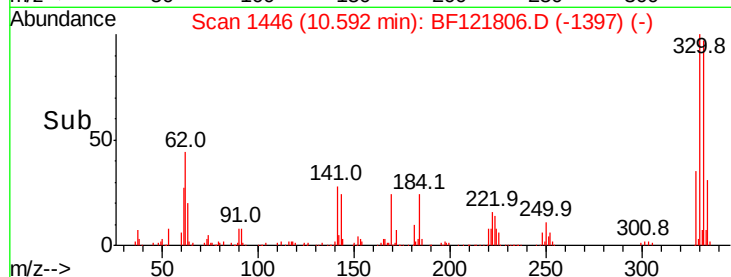
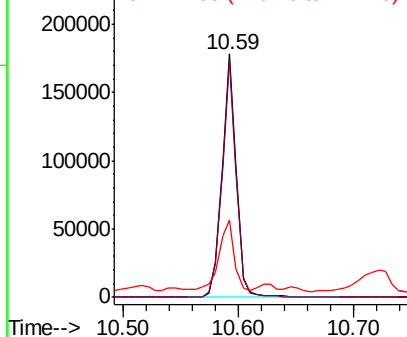
Tot Ion:	330	Resp:	152201
Ion Ratio	Lower	Upper	
330	100		
332	96.8	77.3	115.9
141	29.7	22.3	33.5

Manual Integrations
APPROVED

mohammad
10/5/2020 10:27:55 AM



Abundance Ion 329.80 (329.50 to 330.50): E
Ion 331.80 (331.50 to 332.50): E
Ion 141.00 (140.70 to 141.70): E



#45

2-Fluorobiphenyl

Concen: 71.920 ng

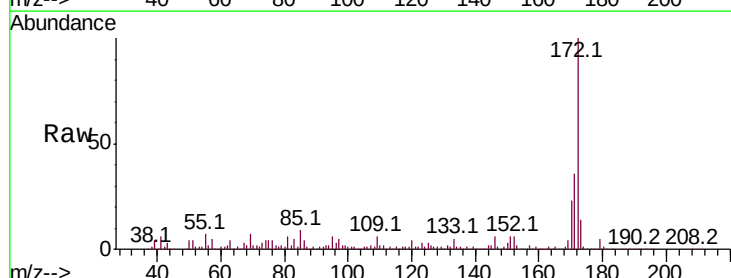
RT: 9.12 min Scan# 1196

Delta R.T. -0.01 min

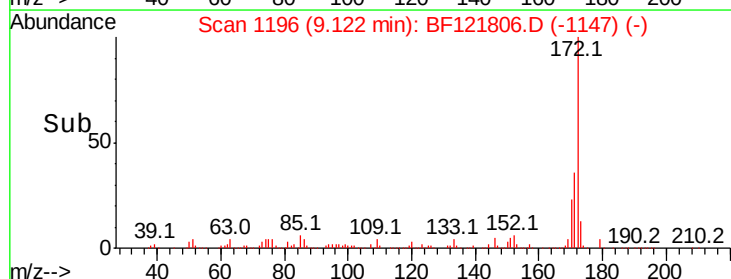
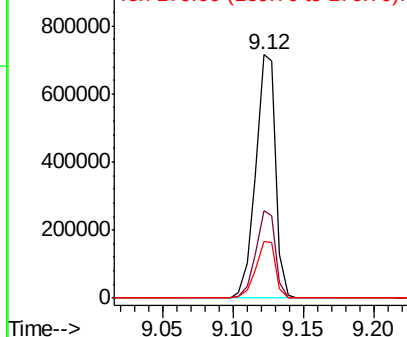
Lab File: BF121806.D

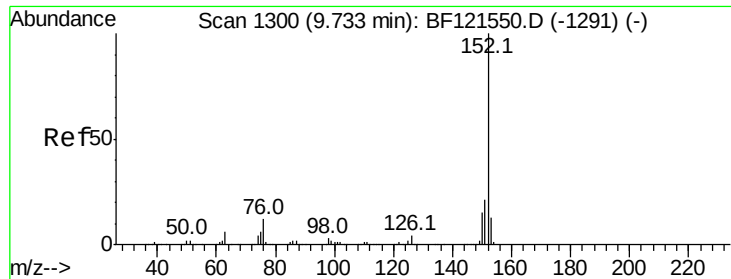
Acq: 2 Oct 2020 21:23

Tgt Ion:	172	Resp:	716936
Ion Ratio	Lower	Upper	
172	100		
171	35.9	29.1	43.7
170	23.4	19.8	29.6



Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E





#49

Acenaphthylene

Concen: 3.733 ng

RT: 9.66 min Scan# 1288

Delta R.T. -0.01 min

Lab File: BF121806.D

Acq: 2 Oct 2020 21:23

Instrument :

BNA_F

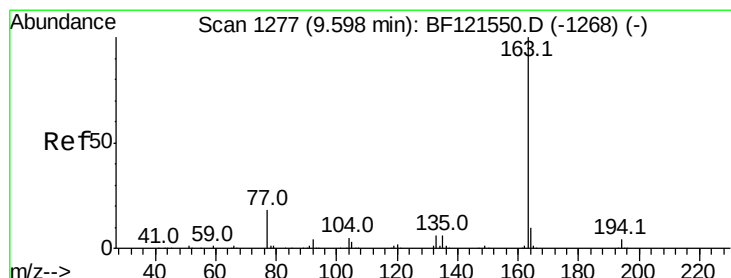
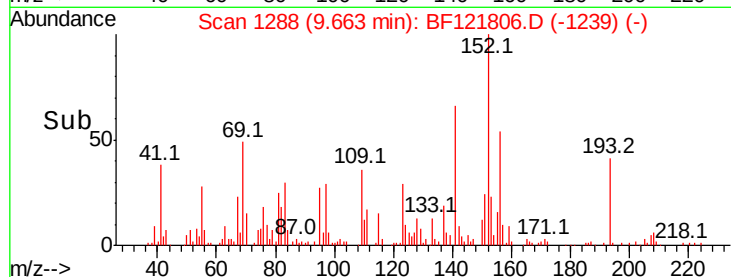
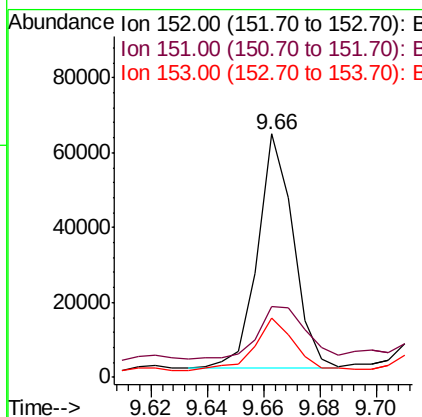
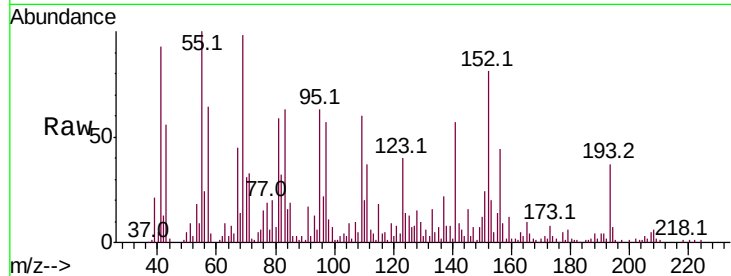
ClientSampled :

DUP-3

Tot Ion:	152	Resp:	54632
Ion Ratio	Lower	Upper	
152	100		
151	28.9	16.4	24.6#
153	24.4	10.6	15.8#

Manual Integrations
APPROVED

mohammad
10/5/2020 10:27:55 AM



#50

Dimethylphthalate

Concen: 7.403 ng

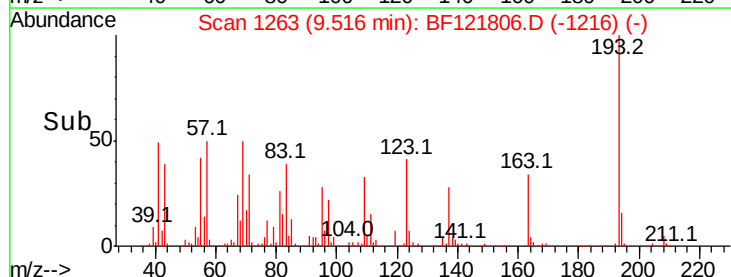
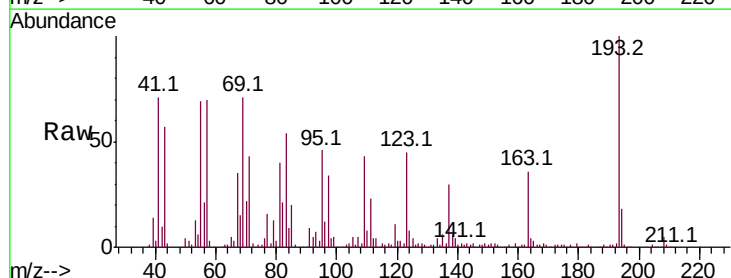
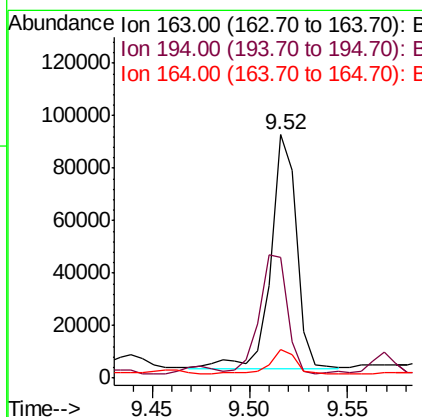
RT: 9.52 min Scan# 1263

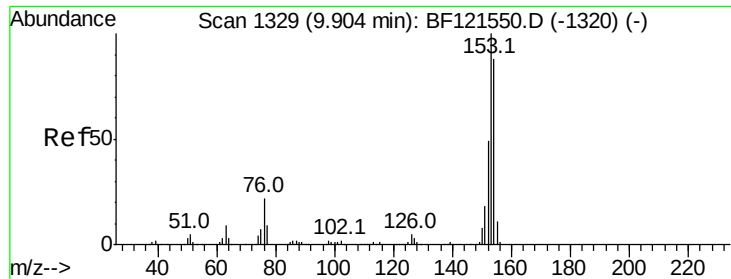
Delta R.T. -0.02 min

Lab File: BF121806.D

Acq: 2 Oct 2020 21:23

Tgt Ion:	163	Resp:	81005
Ion Ratio	Lower	Upper	
163	100		
194	49.6	3.3	4.9#
164	11.9	8.2	12.4





#52

Acenaphthene

Concen: 3.107 ng

RT: 9.83 min Scan# 1317

Delta R.T. -0.01 min

Lab File: BF121806.D

Acq: 2 Oct 2020 21:23

Instrument :

BNA_F

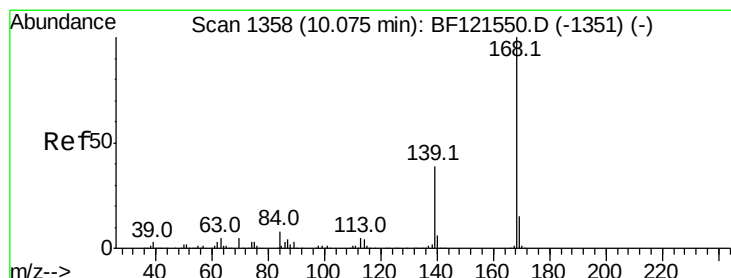
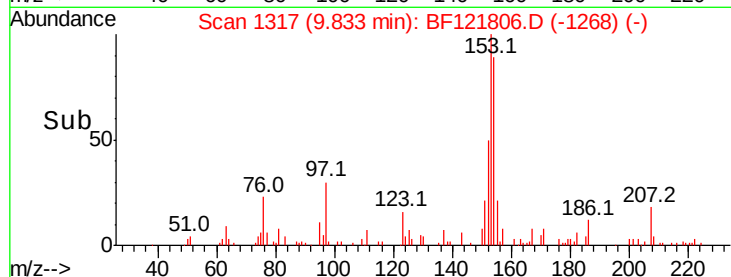
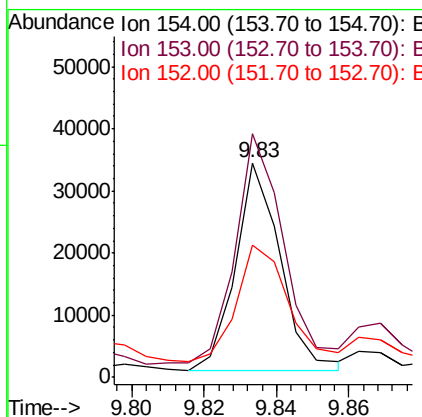
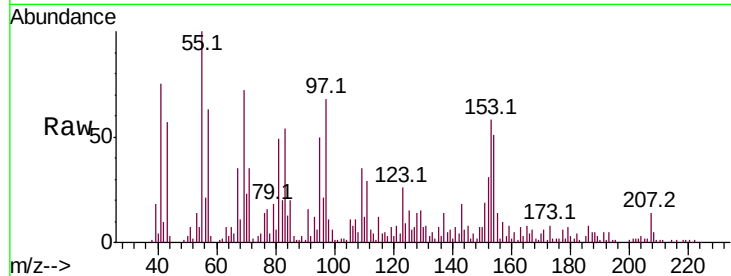
ClientSampled :

DUP-3

Tot Ion:	154	Resp:	28722
Ion Ratio	Lower	Upper	
154	100		
153	113.6	89.8	134.8
152	62.0	43.2	64.8

Manual Integrations
APPROVED

mohammad
10/5/2020 10:27:55 AM



#55

Dibenzofuran

Concen: 2.124 ng

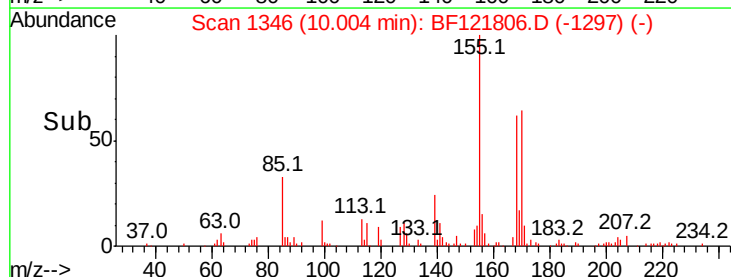
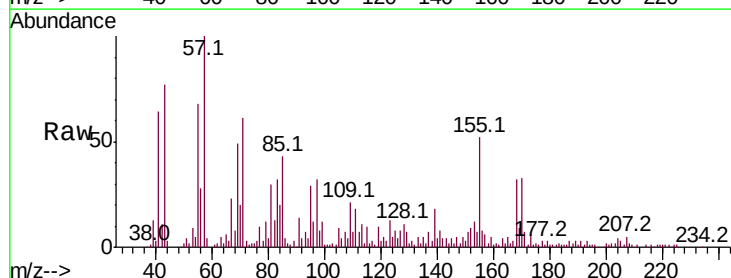
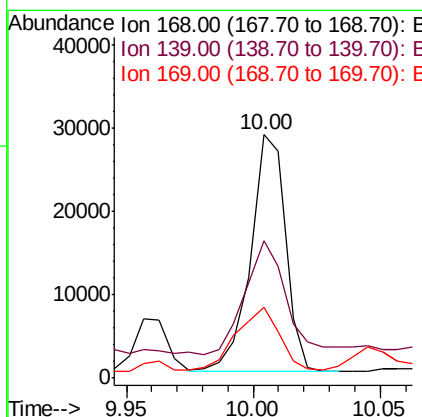
RT: 10.00 min Scan# 1346

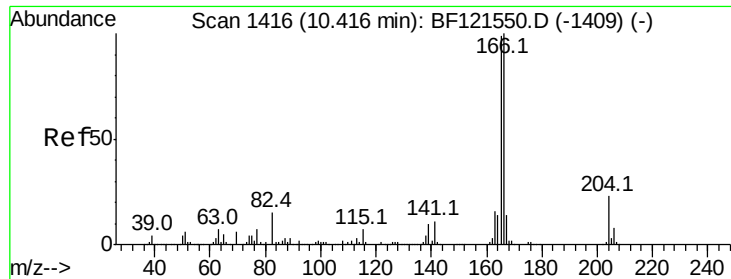
Delta R.T. -0.01 min

Lab File: BF121806.D

Acq: 2 Oct 2020 21:23

Tgt Ion:	168	Resp:	27647
Ion Ratio	Lower	Upper	
168	100		
139	56.2	31.0	46.6#
169	29.0	11.3	16.9#





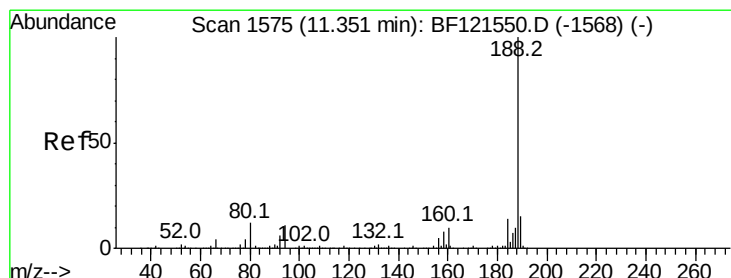
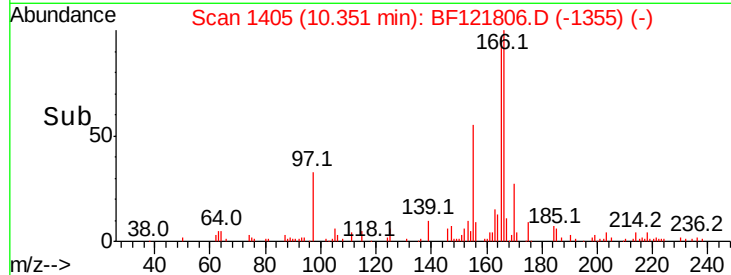
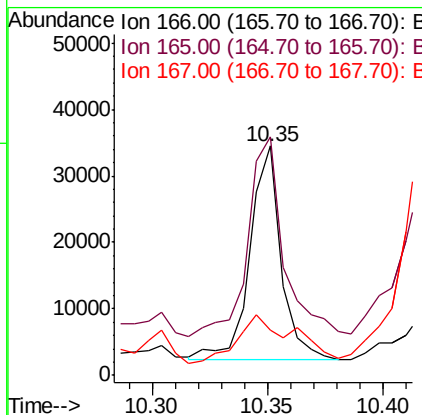
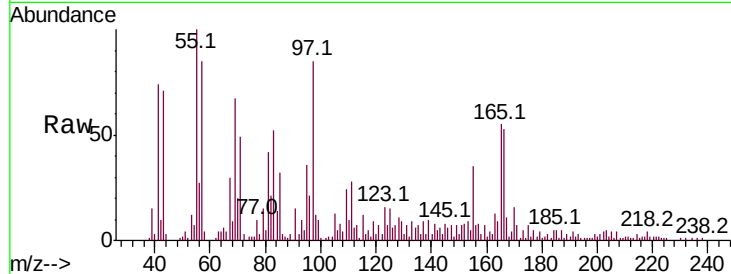
#58
Fluorene
Concen: 3.061 ng
RT: 10.35 min Scan# 1405
Delta R.T. -0.01 min
Lab File: BF121806.D
Acq: 2 Oct 2020 21:23

Instrument :
BNA_F
ClientSampled :
DUP-3

Tot Ion	Ratio	Lower	Upper
166	100		
165	104.0	79.1	118.7
167	19.8	11.0	16.6

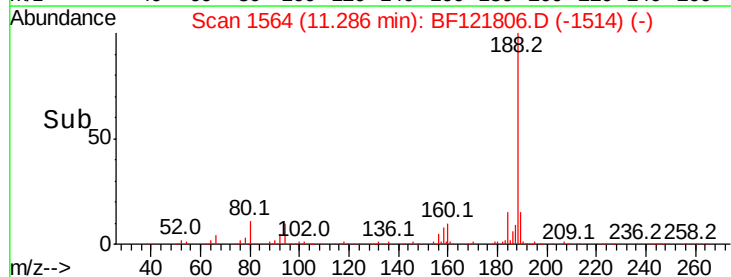
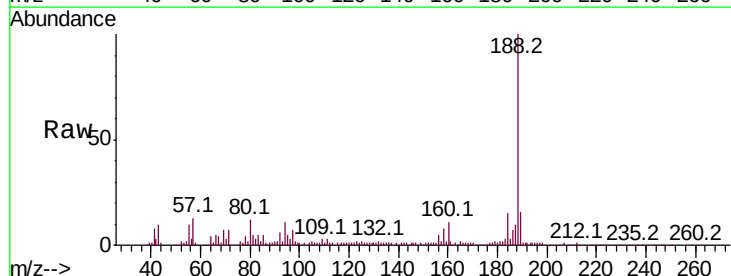
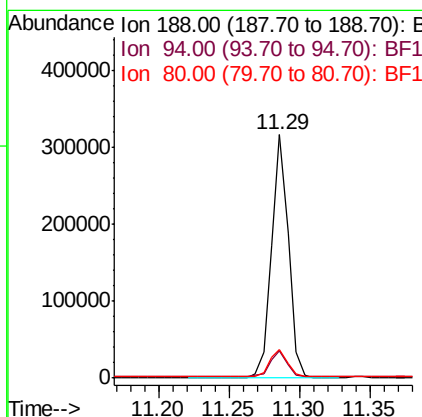
Manual Integrations
APPROVED

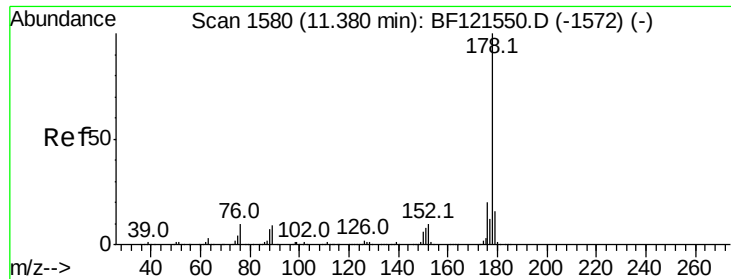
mohammad
10/5/2020 10:27:55 AM



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.29 min Scan# 1564
Delta R.T. -0.01 min
Lab File: BF121806.D
Acq: 2 Oct 2020 21:23

Tgt Ion	Ratio	Lower	Upper
188	100		
94	11.2	8.3	12.5
80	11.7	9.1	13.7





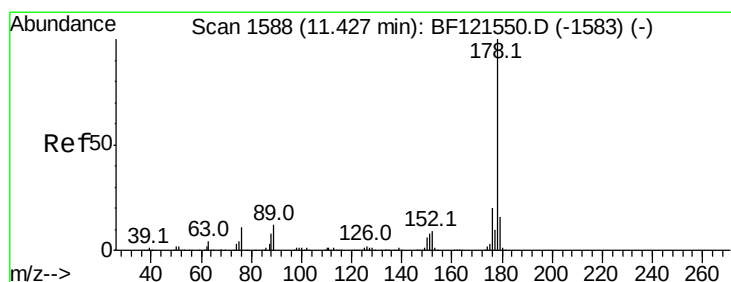
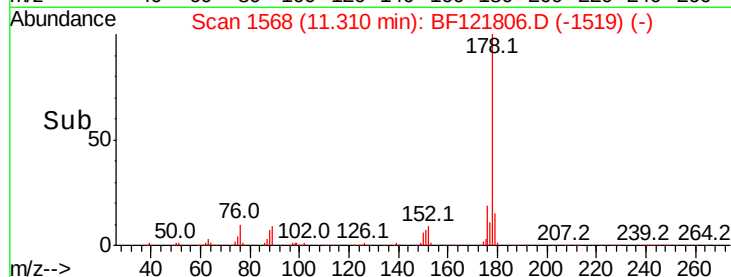
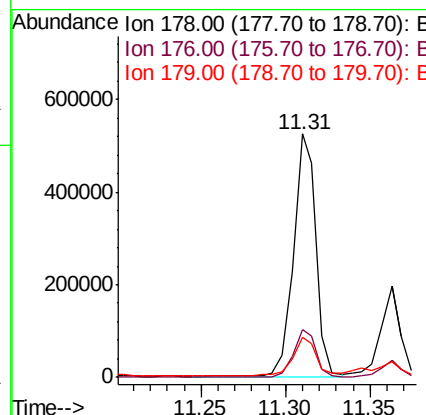
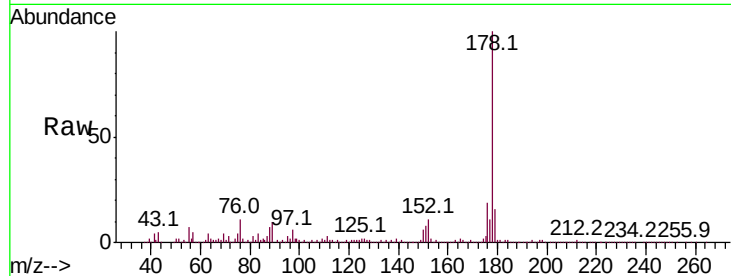
#71
Phenanthrene
Concen: 33.155 ng
RT: 11.31 min Scan# 1568
Delta R.T. -0.01 min
Lab File: BF121806.D
Acq: 2 Oct 2020 21:23

Instrument :
BNA_F
ClientSampleId :
DUP-3

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.9	23.9
179	16.4	12.2	18.4

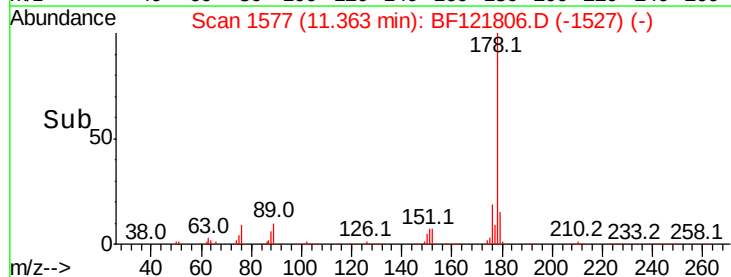
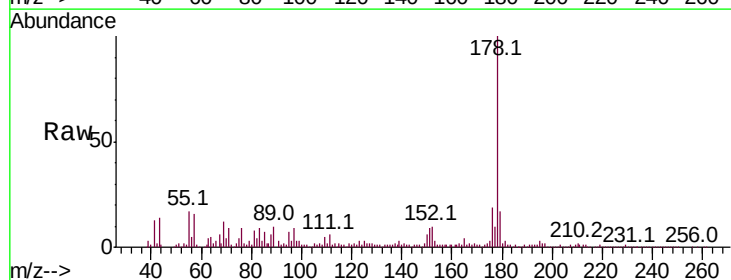
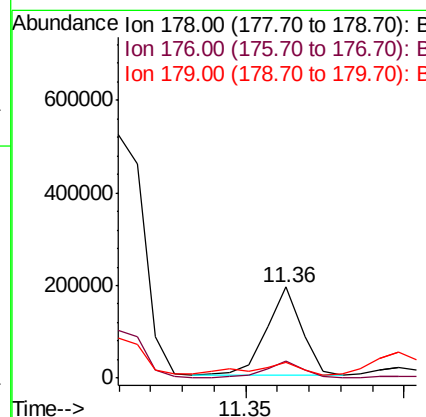
Manual Integrations
APPROVED

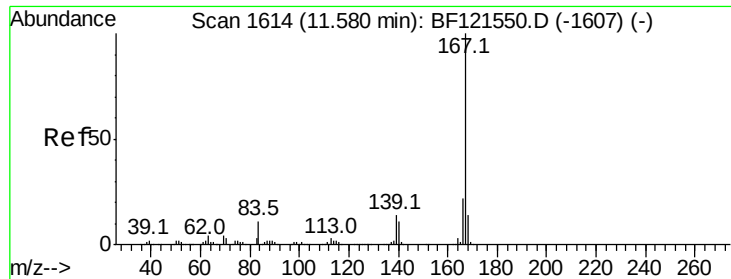
mohammad
10/5/2020 10:27:55 AM



#72
Anthracene
Concen: 9.859 ng
RT: 11.36 min Scan# 1577
Delta R.T. -0.01 min
Lab File: BF121806.D
Acq: 2 Oct 2020 21:23

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.7	23.5
179	17.0	12.7	19.1





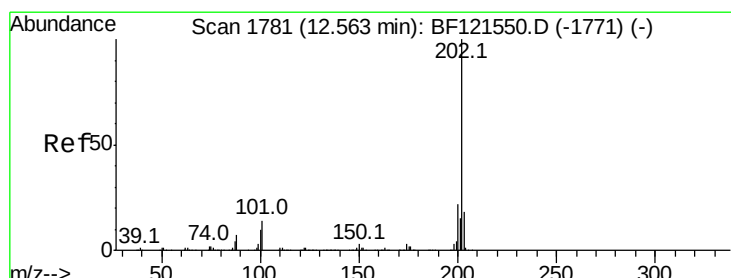
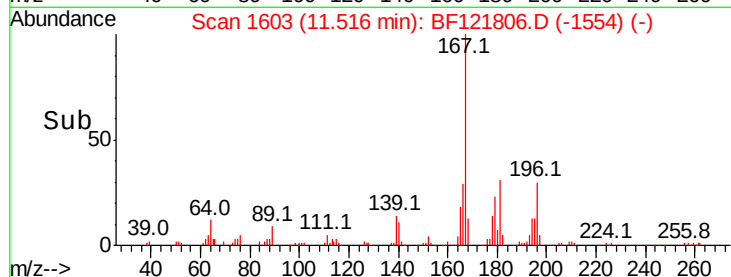
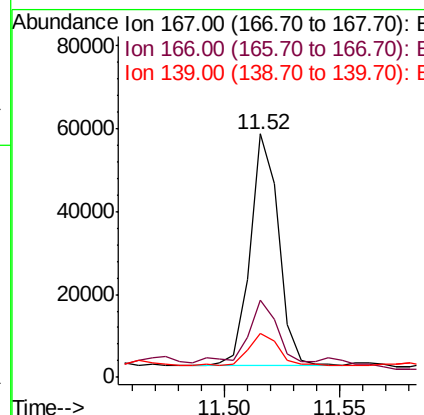
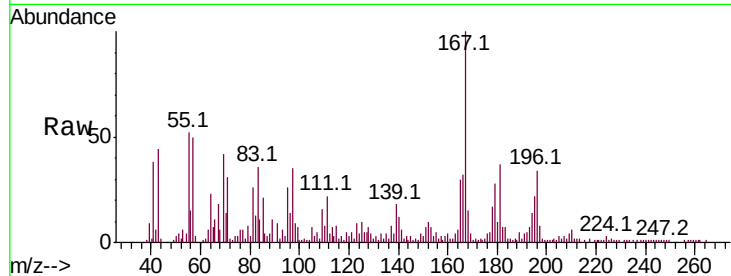
#73
 Carbazole
 Concen: 3.517 ng
 RT: 11.52 min Scan# 1603
 Delta R.T. -0.01 min
 Lab File: BF121806.D
 Acq: 2 Oct 2020 21:23

Instrument :
 BNA_F
 ClientSampleId :
 DUP-3

Tot Ion	Ratio	Lower	Upper
167	100		
166	31.6	17.8	26.6#
139	18.2	10.8	16.2#

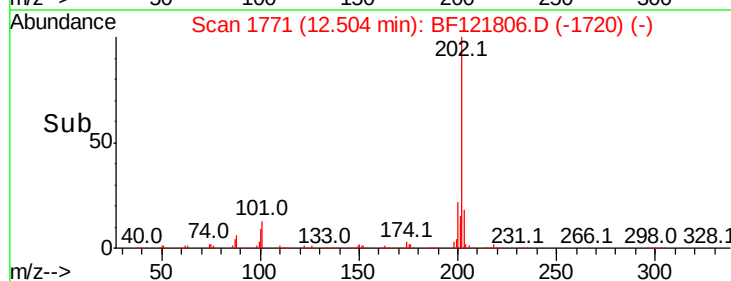
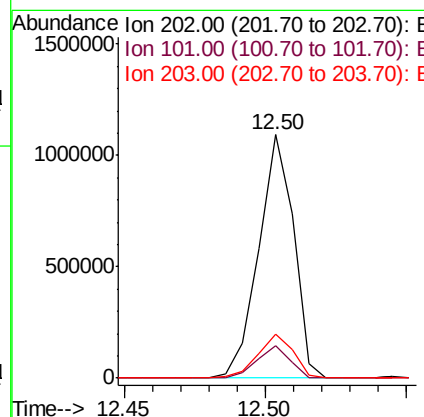
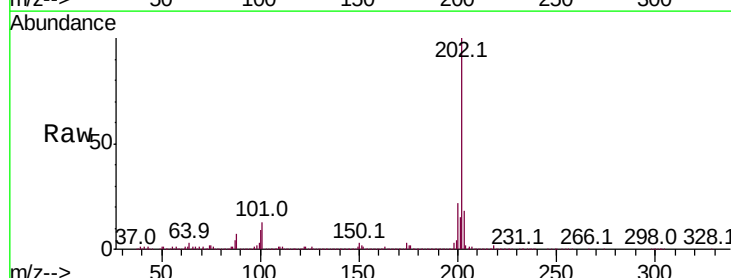
Manual Integrations
 APPROVED

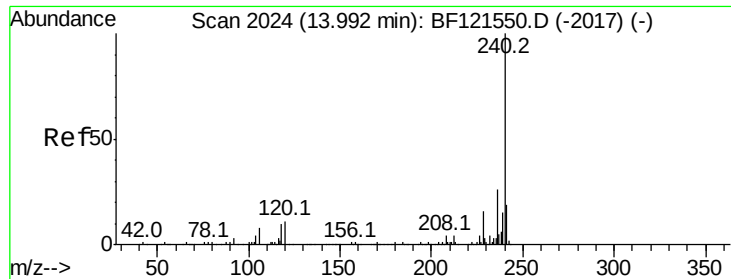
mohammad
 10/5/2020 10:27:55 AM



#75
 Fluoranthene
 Concen: 60.081 ng
 RT: 12.50 min Scan# 1771
 Delta R.T. 0.00 min
 Lab File: BF121806.D
 Acq: 2 Oct 2020 21:23

Tgt Ion	Ratio	Lower	Upper
202	100		
101	13.1	0.0	33.4
203	18.3	0.0	37.9





#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.93 min Scan# 2013

Delta R.T. -0.01 min

Lab File: BF121806.D

Acq: 2 Oct 2020 21:23

Instrument :

BNA_F

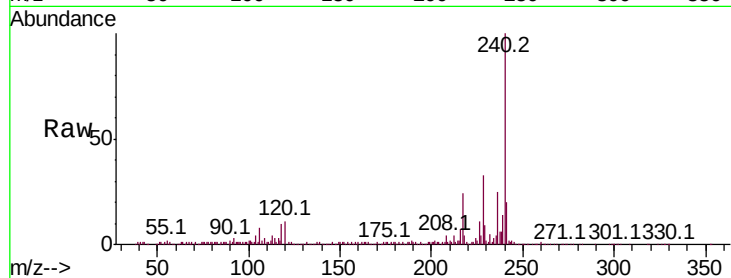
ClientSampleId :

DUP-3

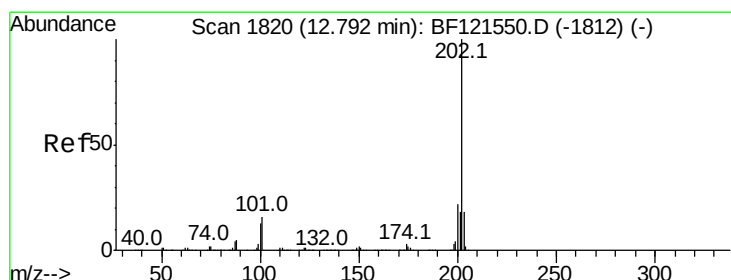
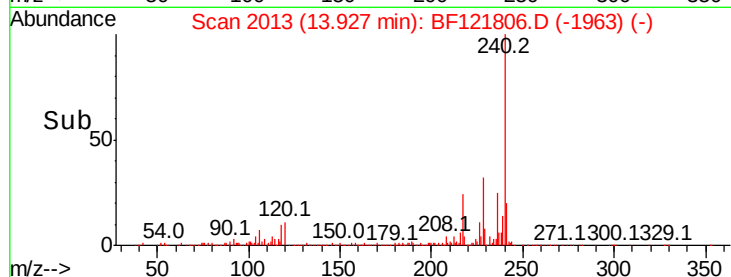
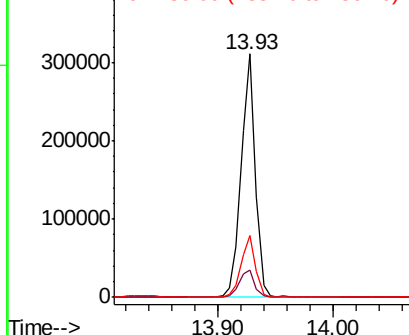
Tot Ion:	240	Resp:	263501
Ion Ratio	Lower	Upper	
240	100		
120	11.1	9.2	13.8
236	25.4	20.9	31.3

Manual Integrations
APPROVED

mohammad
10/5/2020 10:27:55 AM



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

Pyrene

Concen: 45.993 ng

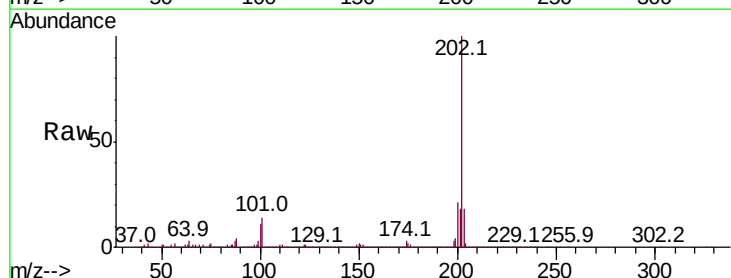
RT: 12.73 min Scan# 1810

Delta R.T. 0.00 min

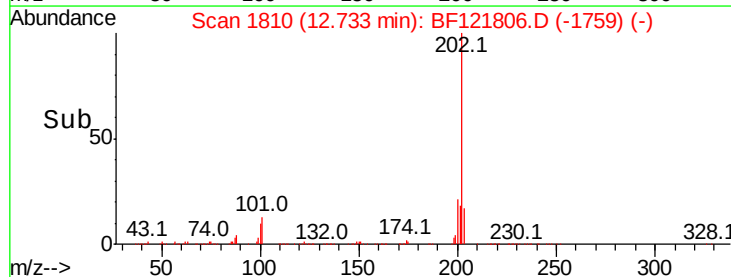
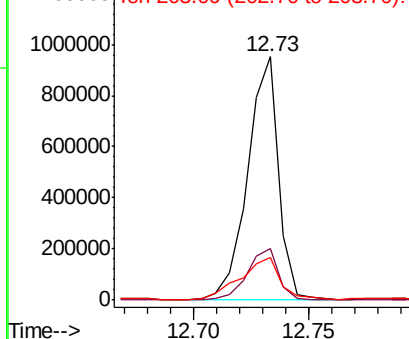
Lab File: BF121806.D

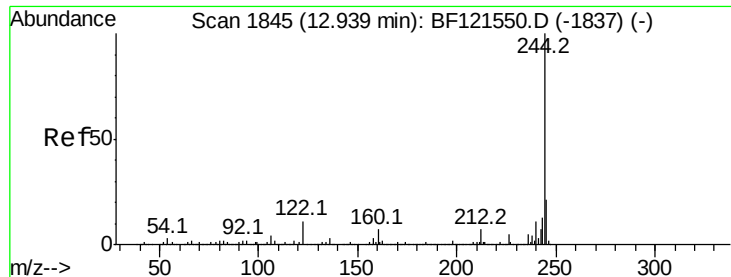
Acq: 2 Oct 2020 21:23

Tgt Ion:	202	Resp:	885465
Ion Ratio	Lower	Upper	
202	100		
200	21.5	17.4	26.2
203	17.7	14.6	21.8



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





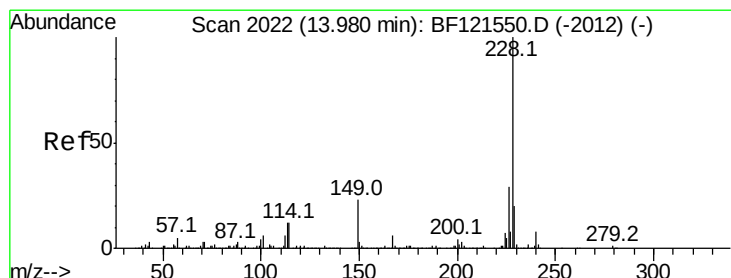
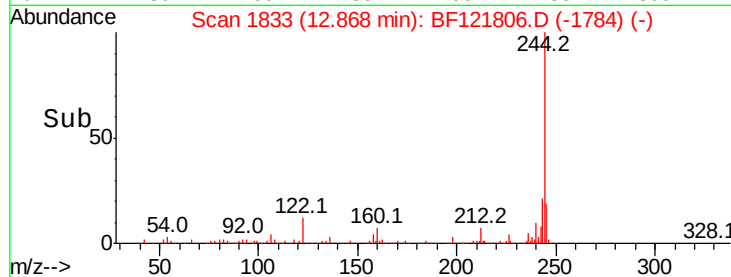
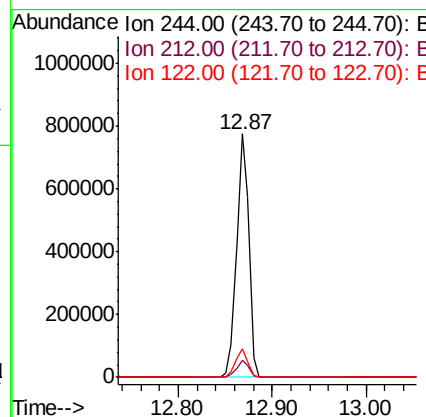
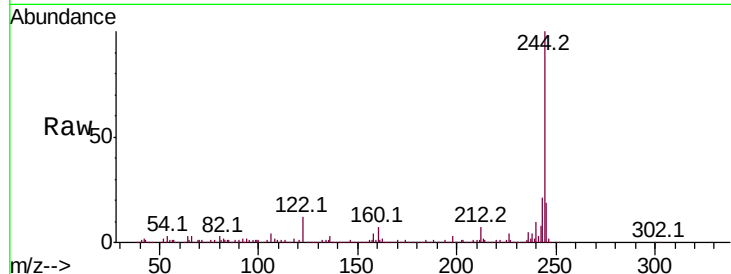
#79
 Terphenyl-d14
 Concen: 53.831 ng
 RT: 12.87 min Scan# 1833
 Delta R.T. -0.01 min
 Lab File: BF121806.D
 Acq: 2 Oct 2020 21:23

Instrument :
 BNA_F
 ClientSampleID :
 DUP-3

Tot Ion	Ratio	Lower	Upper
244	100		
212	7.0	5.4	8.2
122	11.6	8.1	12.1

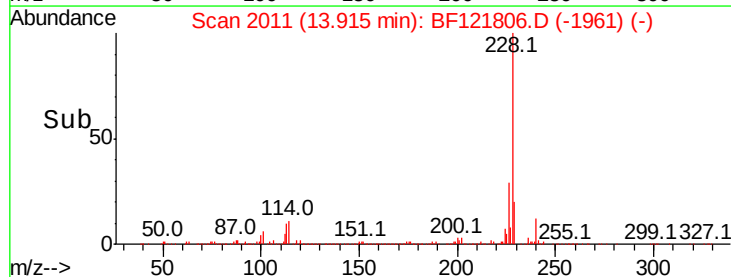
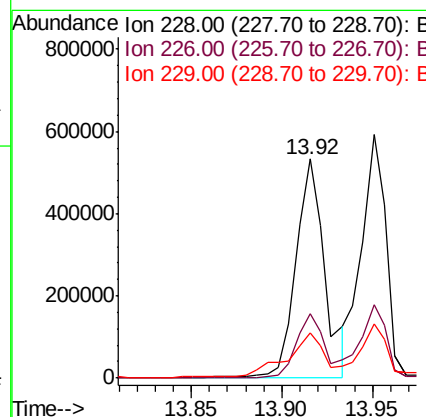
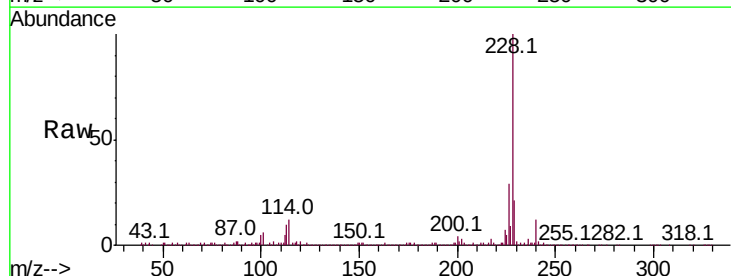
Manual Integrations
 APPROVED

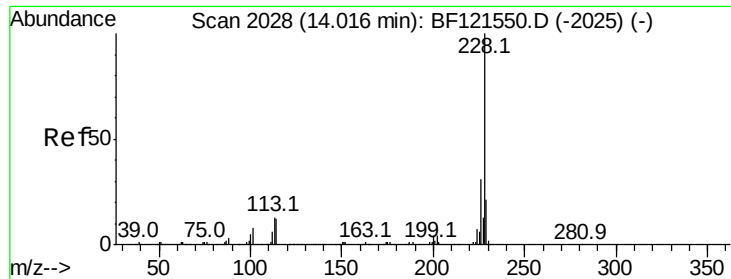
mohammad
 10/5/2020 10:27:55 AM



#81
 Benzo(a)anthracene
 Concen: 35.507 ng
 RT: 13.92 min Scan# 2011
 Delta R.T. -0.01 min
 Lab File: BF121806.D
 Acq: 2 Oct 2020 21:23

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.5	22.3	33.5
229	20.6	16.2	24.4





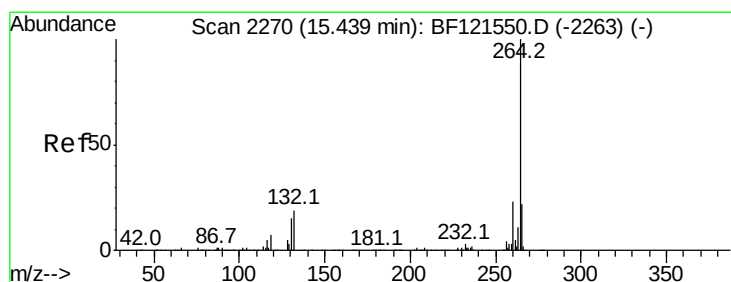
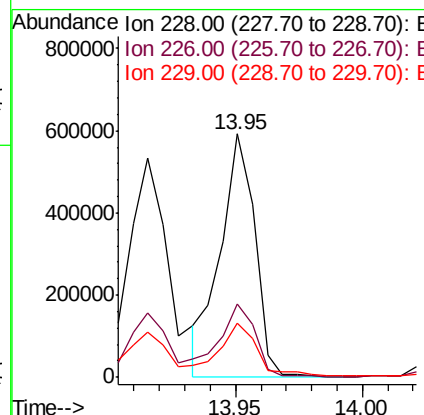
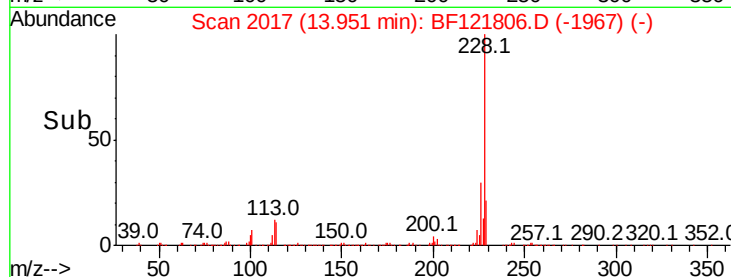
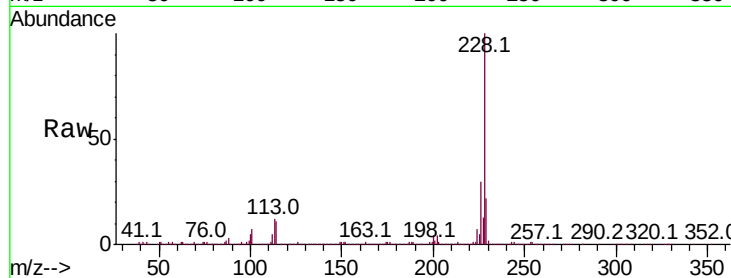
#83
Chrysene
Concen: 33.048 ng
RT: 13.95 min Scan# 2017
Delta R.T. -0.01 min
Lab File: BF121806.D
Acq: 2 Oct 2020 21:23

Instrument :
BNA_F
ClientSampleId :
DUP-3

Tot Ion:	228	Resp:	557883
Ion Ratio	Lower	Upper	
228	100		
226	30.3	24.6	37.0
229	22.2	15.9	23.9

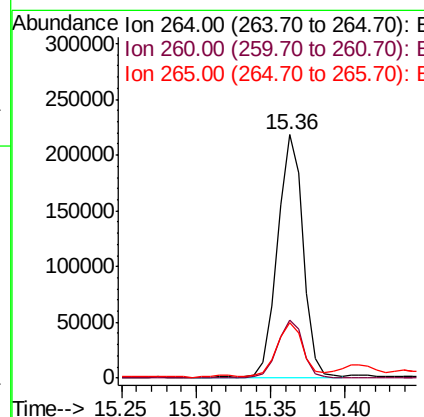
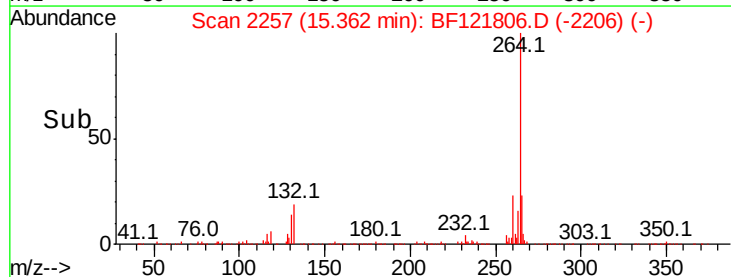
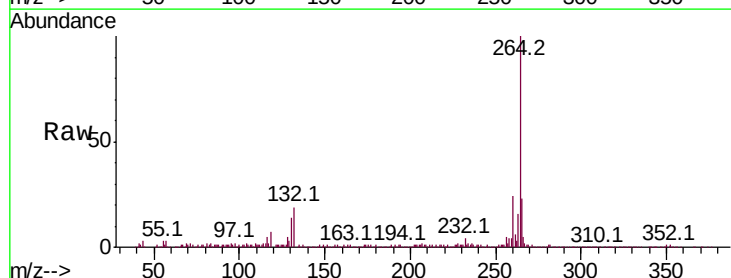
Manual Integrations
APPROVED

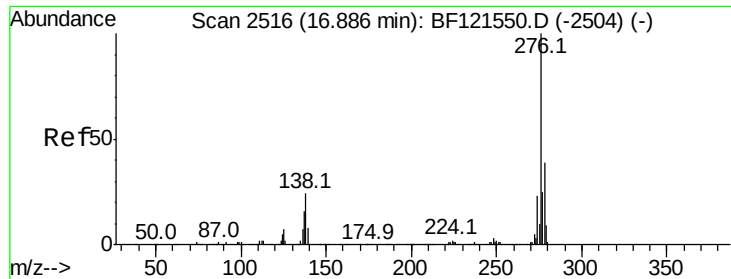
mohammad
10/5/2020 10:27:55 AM



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.36 min Scan# 2257
Delta R.T. 0.00 min
Lab File: BF121806.D
Acq: 2 Oct 2020 21:23

Tgt Ion:	264	Resp:	261041
Ion Ratio	Lower	Upper	
264	100		
260	23.7	18.7	28.1
265	23.0	17.3	25.9





#87

Indeno(1,2,3-cd)pyrene

Concen: 20.009 ng

RT: 16.78 min Scan# 2498

Delta R.T. -0.01 min

Lab File: BF121806.D

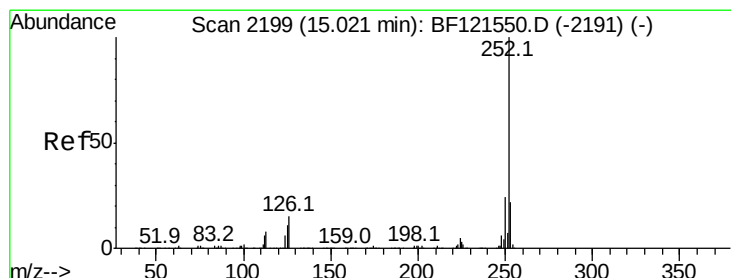
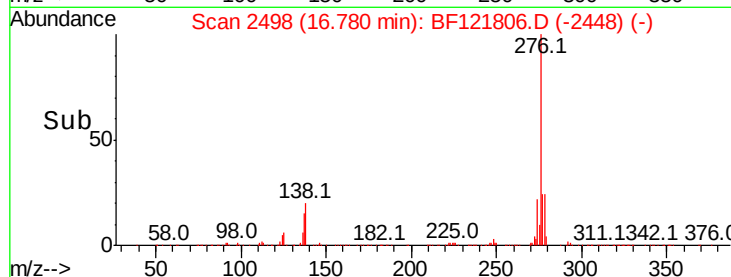
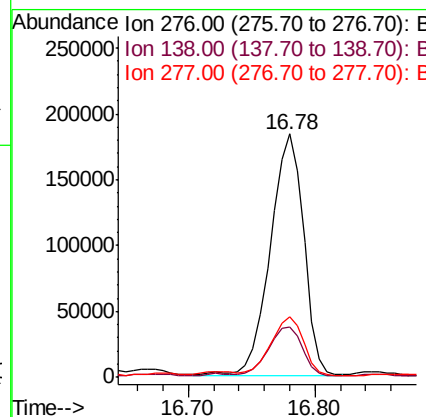
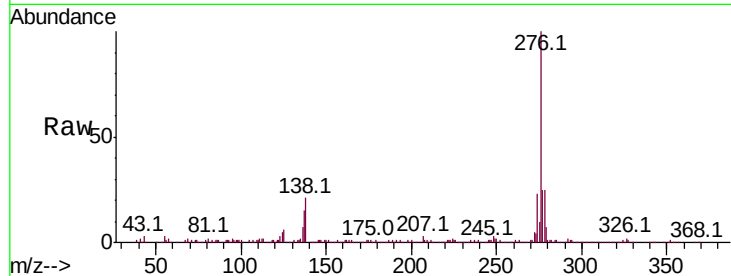
Acq: 2 Oct 2020 21:23

Instrument :
BNA_F
ClientSampled :
DUP-3

Tot Ion	Ratio	Lower	Upper
276	100		
138	20.6	19.9	29.9
277	23.9	20.4	30.6

Manual Integrations
APPROVED

mohammad
10/5/2020 10:27:55 AM



#88

Benzo(b)fluoranthene

Concen: 44.715 ng m

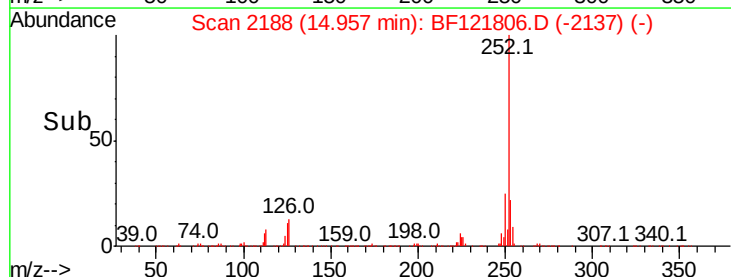
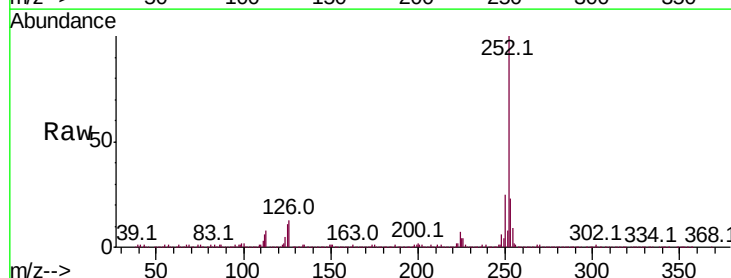
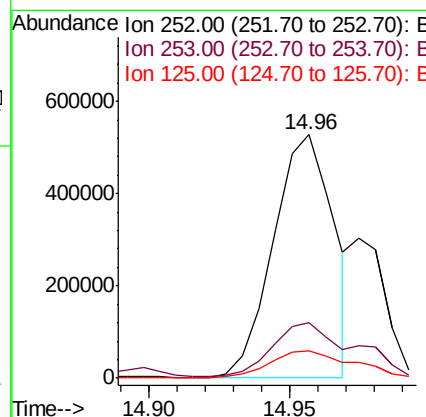
RT: 14.96 min Scan# 2188

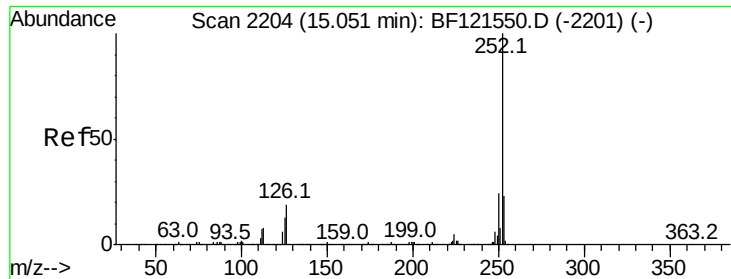
Delta R.T. 0.00 min

Lab File: BF121806.D

Acq: 2 Oct 2020 21:23

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.7	18.2	27.2
125	11.1	8.0	12.0





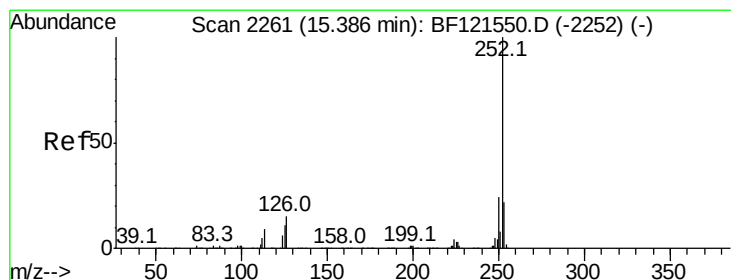
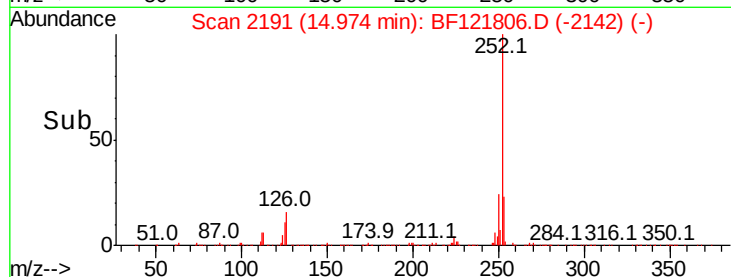
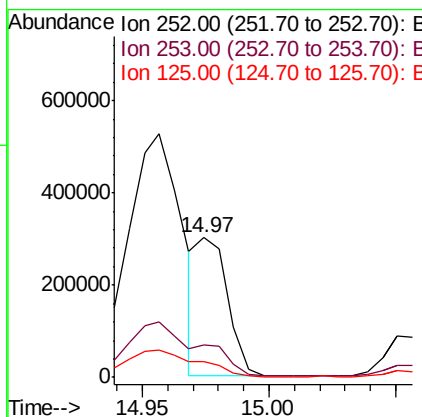
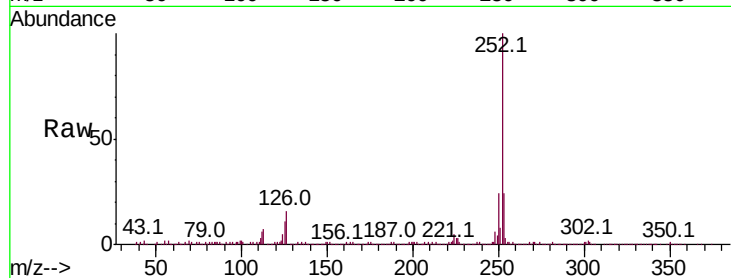
#89
Benzo(k)fluoranthene
Concen: 15.472 ng m
RT: 14.97 min Scan# 2191
Delta R.T. -0.01 min
Lab File: BF121806.D
Acq: 2 Oct 2020 21:23

Instrument :
BNA_F
ClientSampled :
DUP-3

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.7	17.8	26.6
125	11.4	7.7	11.5

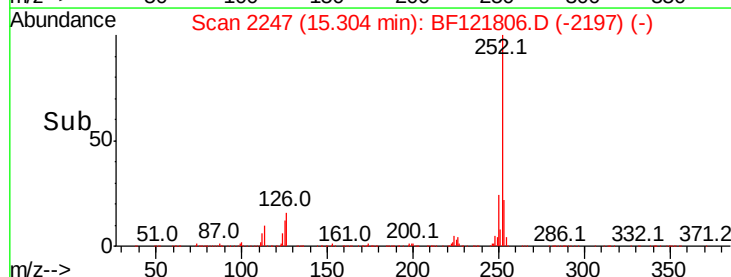
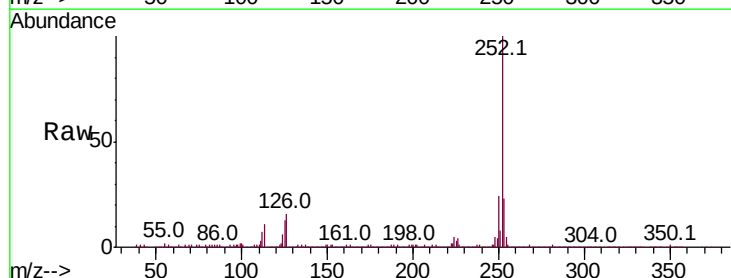
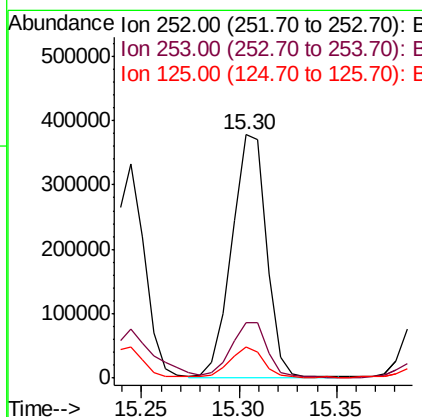
Manual Integrations
APPROVED

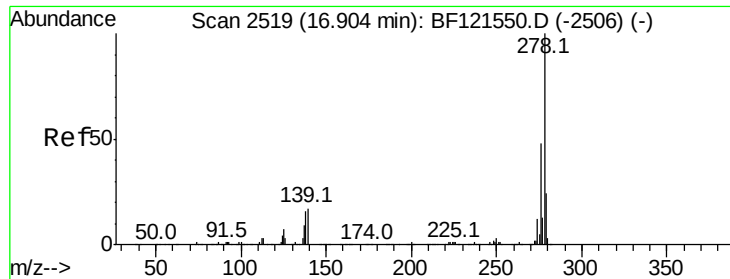
mohammad
10/5/2020 10:27:55 AM



#90
Benzo(a)pyrene
Concen: 31.303 ng
RT: 15.30 min Scan# 2247
Delta R.T. -0.01 min
Lab File: BF121806.D
Acq: 2 Oct 2020 21:23

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.3	25.9
125	12.6	8.6	13.0





#91

Dibenzo(a,h)anthracene

Concen: 6.040 ng m

RT: 16.78 min Scan# 2498

Delta R.T. -0.02 min

Lab File: BF121806.D

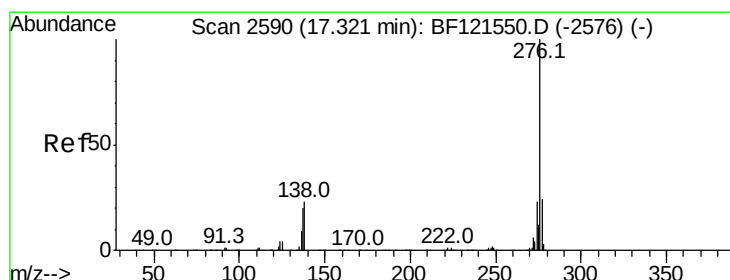
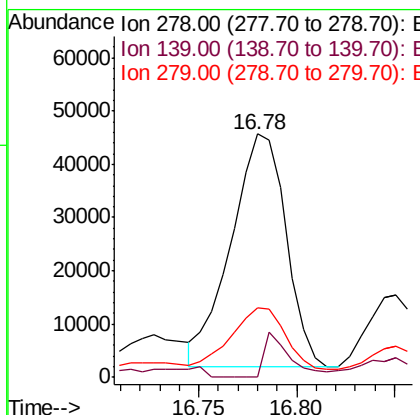
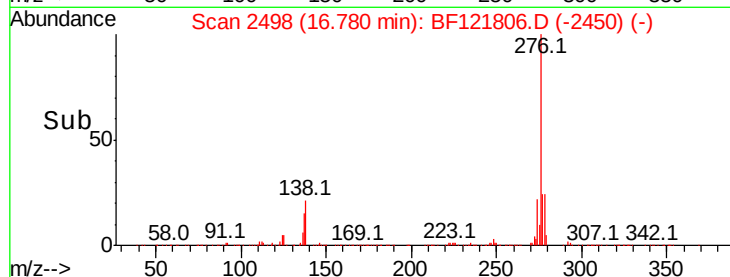
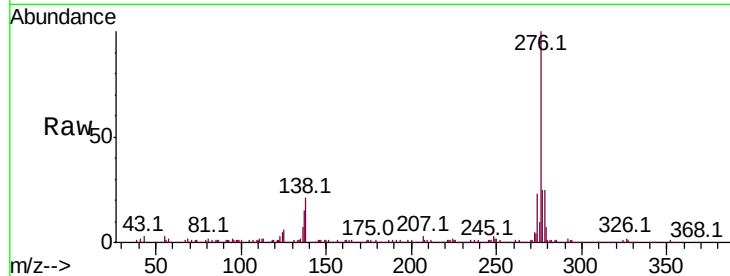
Acq: 2 Oct 2020 21:23

Instrument :
BNA_F
ClientSampleId :
DUP-3

Tot Ion	Ratio	Lower	Upper
278	100		
139	0.0	13.0	19.4#
279	28.5	19.0	28.4#

Manual Integrations
APPROVED

mohammad
10/5/2020 10:27:55 AM



#92

Benzo(g,h,i)perylene

Concen: 21.549 ng

RT: 17.20 min Scan# 2570

Delta R.T. -0.01 min

Lab File: BF121806.D

Acq: 2 Oct 2020 21:23

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.2	19.4	29.2
138	22.0	17.8	26.6

