

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF072920\
 Data File : BF121117.D
 Acq On : 29 Jul 2020 23:03
 Operator : JU/CG
 Sample : L3436-09 5X
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 9

Manual Integrations
 APPROVED

mohammad
 7/30/2020 3:34:25 PM

Quant Time: Jul 30 03:08:08 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF071620.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jul 29 14:55:43 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.80	152	167512	20.00	ng	0.00
21) Naphthalene-d8	8.09	136	609857	20.00	ng	0.00
39) Acenaphthene-d10	9.85	164	298703	20.00	ng	0.00
64) Phenanthrene-d10	11.33	188	520933	20.00	ng	0.00
76) Chrysene-d12	13.97	240	445915	20.00	ng	0.00
86) Perylene-d12	15.42	264	361303	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.42	112	162770	15.93	ng	0.00
7) Phenol-d6	6.44	99	193577	14.67	ng	0.00
23) Nitrobenzene-d5	7.36	82	104992	9.96	ng	-0.01
42) 2,4,6-Tribromophenol	10.63	330	44368	13.57	ng	0.00
45) 2-Fluorobiphenyl	9.16	172	233373	11.66	ng	0.00
79) Terphenyl-d14	12.91	244	224370	10.94	ng	0.00
Target Compounds						
71) Phenanthrene	11.35	178	229341	8.560	ng	98
72) Anthracene	11.40	178	87918	3.268	ng	98
75) Fluoranthene	12.54	202	447709	15.076	ng	100
78) Pyrene	12.77	202	461166	14.628	ng	98
81) Benzo(a)anthracene	13.96	228	218207	8.081	ng	95
83) Chrysene	13.99	228	197610	6.964	ng	96
87) Indeno(1,2,3-cd)pyrene	16.85	276	68987	2.746	ng	97
88) Benzo(b)fluoranthene	15.00	252	209702m	9.602	ng	
89) Benzo(k)fluoranthene	15.03	252	44478m	2.233	ng	
90) Benzo(a)pyrene	15.36	252	135796	6.815	ng	# 93
92) Benzo(a,h,i)perylene	17.29	276	68472	3.383	ng	92

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

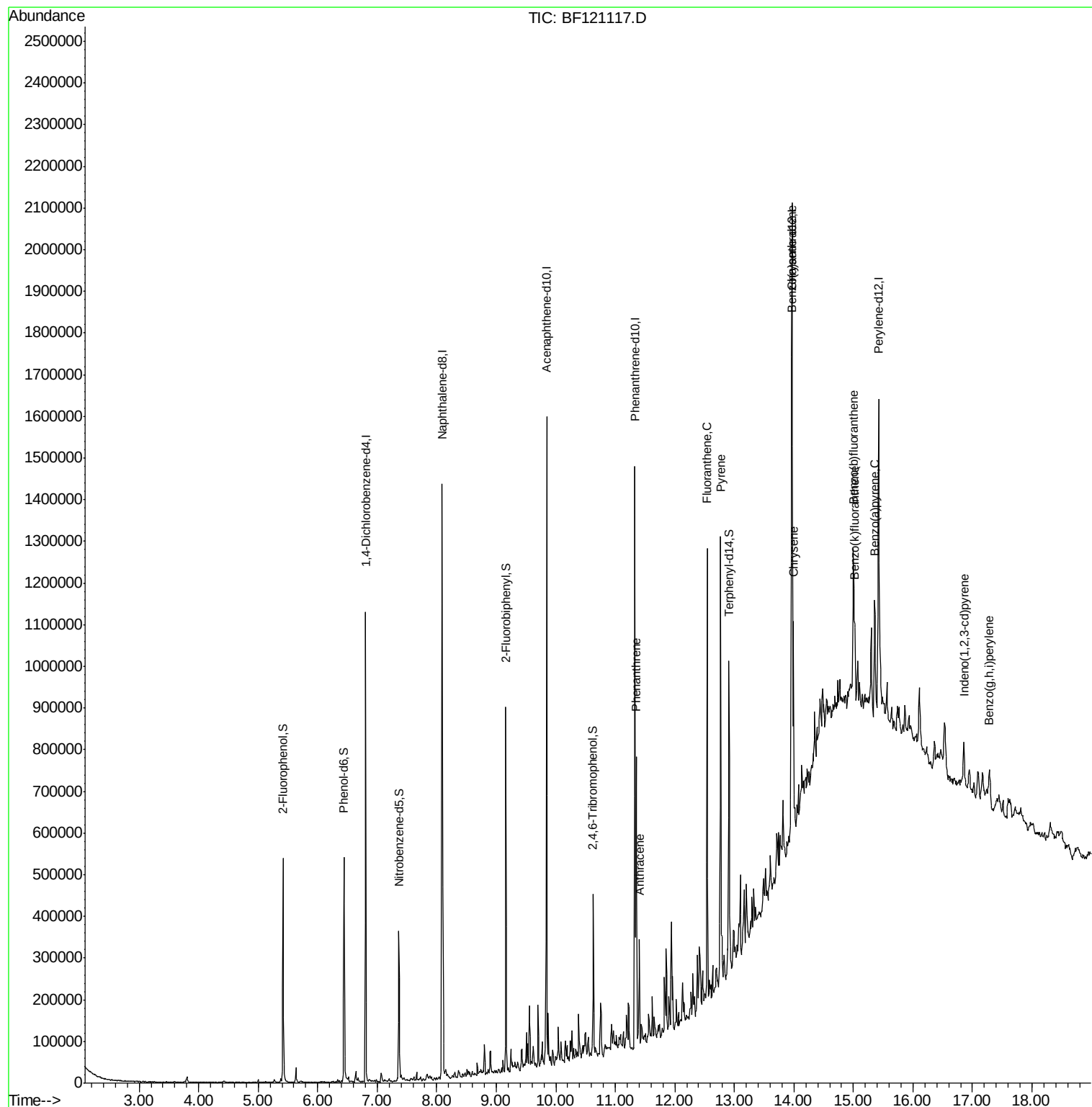
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF072920\
Data File : BF121117.D
Acq On : 29 Jul 2020 23:03
Operator : JU/CG
Sample : L3436-09 5X
Misc :
ALS Vial : 17 Sample Multiplier: 1

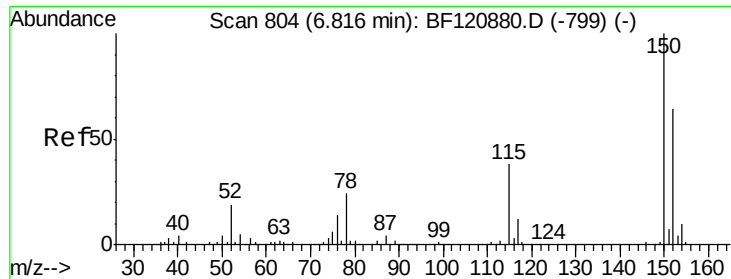
Instrument :
BNA_F
ClientSampleId :
9

Manual Integrations
APPROVED

mohammad
7/30/2020 3:34:25 PM

Quant Time: Jul 30 03:08:08 2020
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF071620.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jul 29 14:55:43 2020
Response via : Initial Calibration





#1

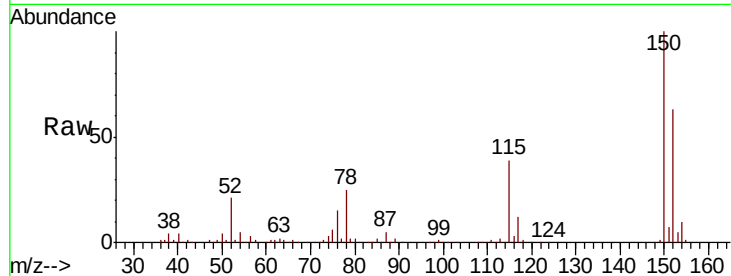
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.80 min Scan# 802
Delta R.T. -0.00 min
Lab File: BF121117.D
Acq: 29 Jul 2020 23:03

Instrument :
BNA_F
ClientSampleId :
9

Tot Ion	Ratio	Lower	Upper
152	100		
150	158.4	125.6	188.4
115	61.0	46.2	69.2

Manual Integrations
APPROVED

mohammad
7/30/2020 3:34:25 PM

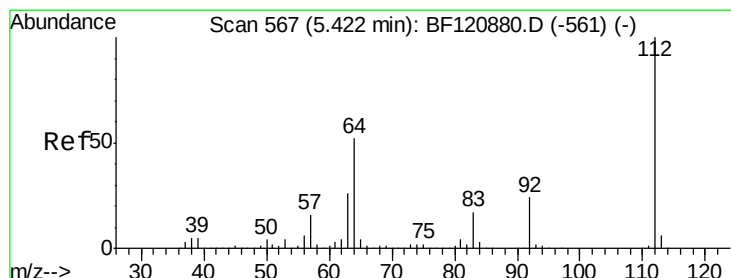
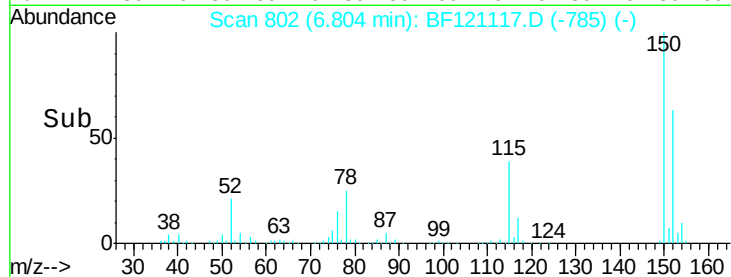
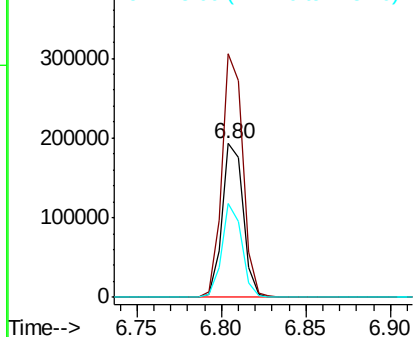


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

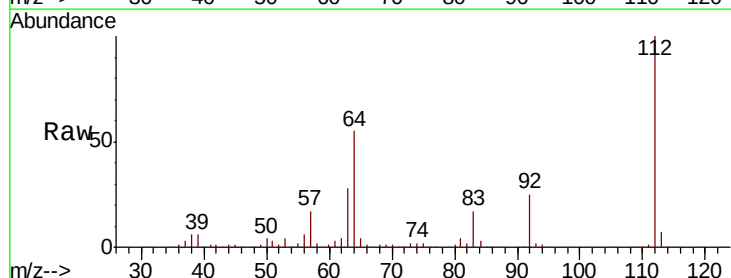
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 15.929 ng
RT: 5.42 min Scan# 566
Delta R.T. -0.00 min
Lab File: BF121117.D
Acq: 29 Jul 2020 23:03

Tgt Ion	Ratio	Lower	Upper
112	100		
64	55.3	43.9	65.9
63	28.2	22.7	34.1

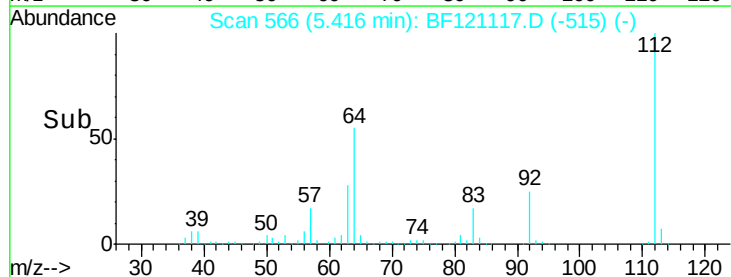
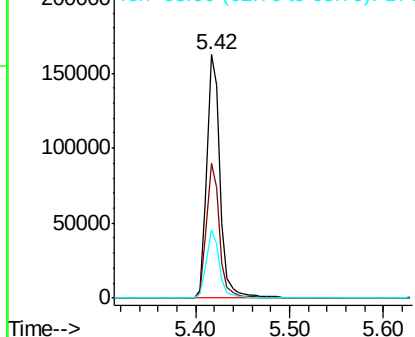


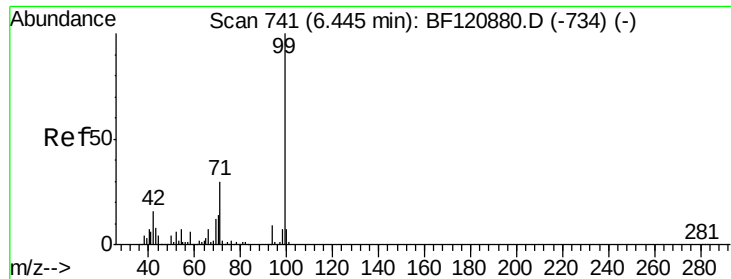
Abundance

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: 14.666 ng

RT: 6.44 min Scan# 740

Delta R.T. -0.01 min

Lab File: BF121117.D

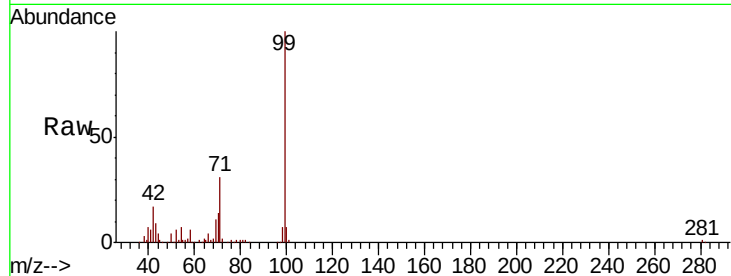
Acq: 29 Jul 2020 23:03

Instrument :

BNA_F

ClientSampled :

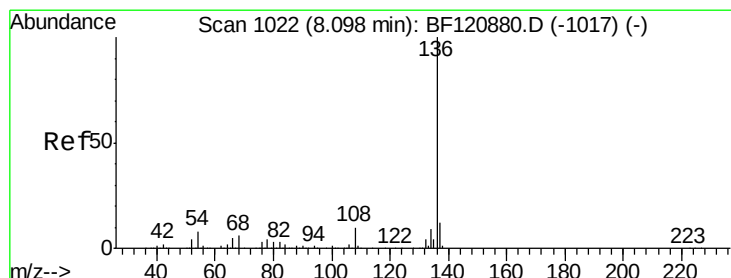
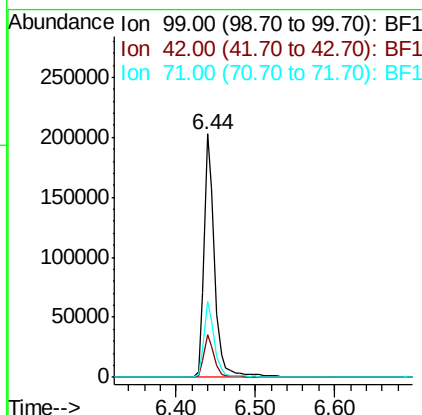
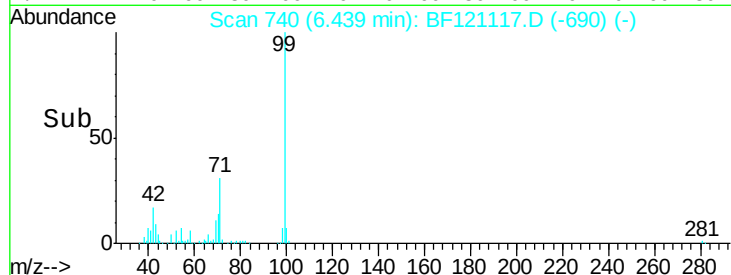
9



Tot Ion	Ion	Ratio	Resp	Lower	Upper
99	100		193577		
42	17.3	13.5	20.3		
71	31.4	25.0	37.4		

Manual Integrations
APPROVED

mohammad
7/30/2020 3:34:25 PM



#21

Naphthalene-d8

Concen: 20.000 ng

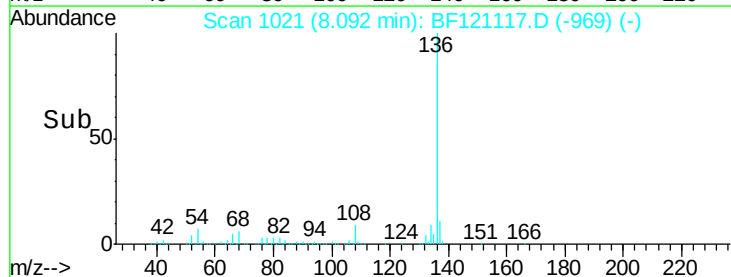
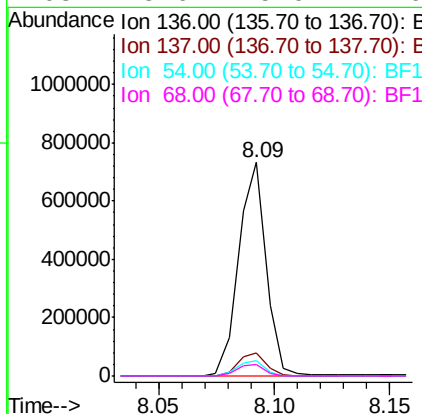
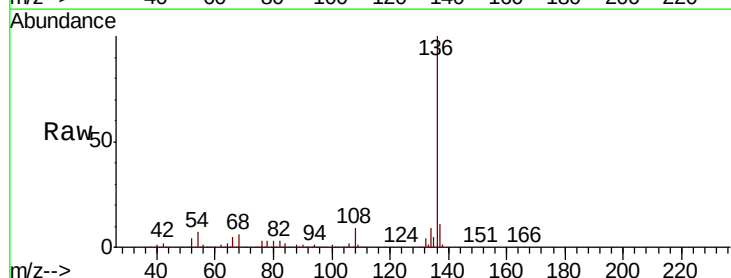
RT: 8.09 min Scan# 1021

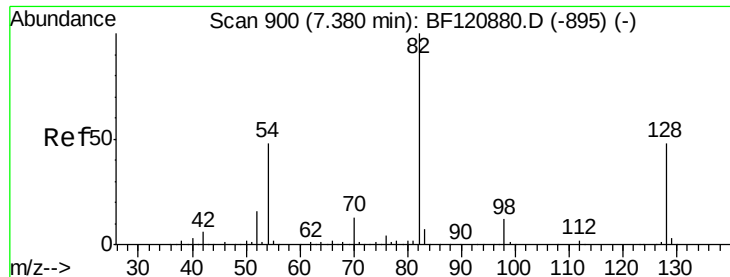
Delta R.T. 0.01 min

Lab File: BF121117.D

Acq: 29 Jul 2020 23:03

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
136	100		609857		
137	10.8	9.0	13.4		
54	7.0	6.1	9.1		
68	5.6	5.0	7.6		





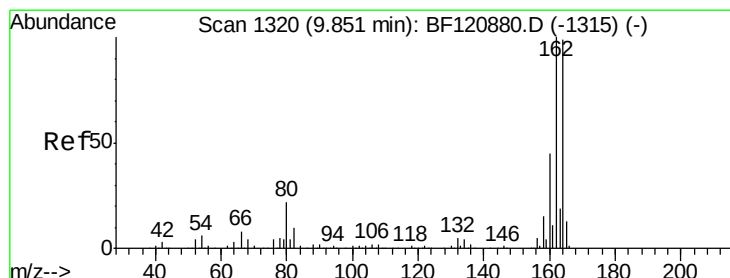
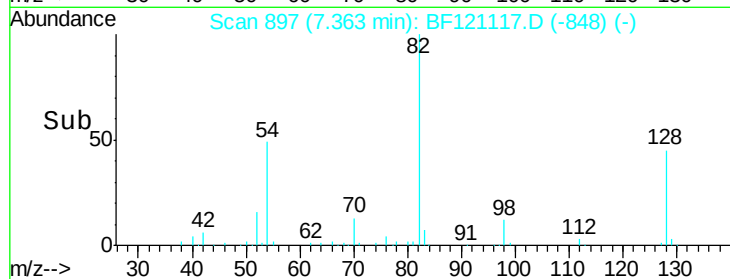
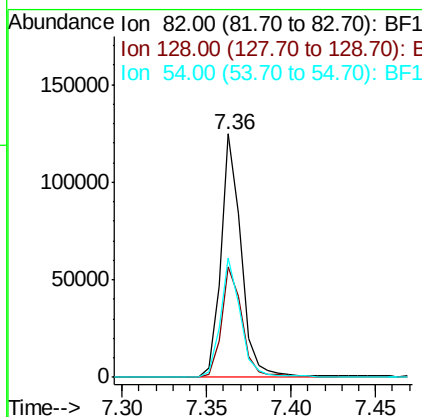
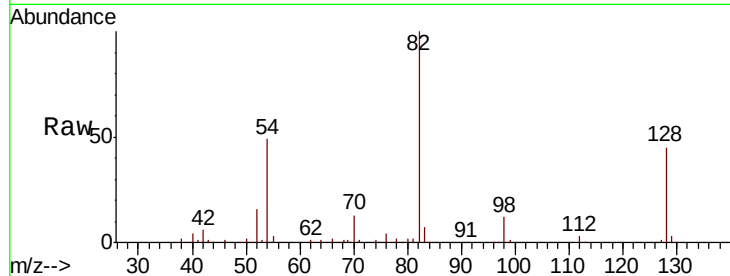
#23
 Nitrobenzene-d5
 Concen: 9.962 ng
 RT: 7.36 min Scan# 897
 Delta R.T. -0.01 min
 Lab File: BF121117.D
 Acq: 29 Jul 2020 23:03

Instrument :
 BNA_F
 ClientSampled :
 9

Tot Ion	Ratio	Lower	Upper
82	100		
128	45.2	39.2	58.8
54	48.9	37.8	56.8

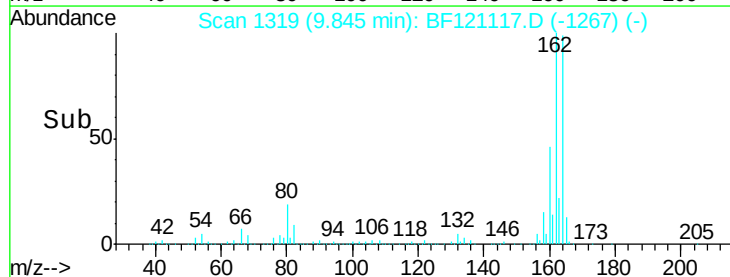
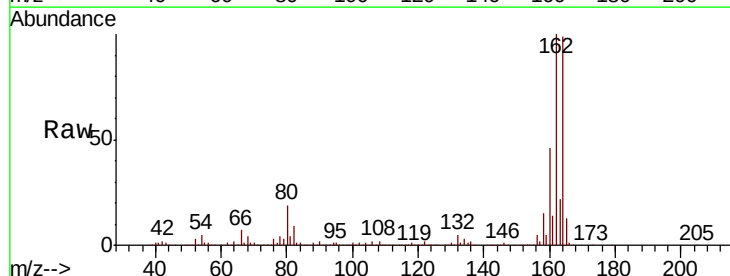
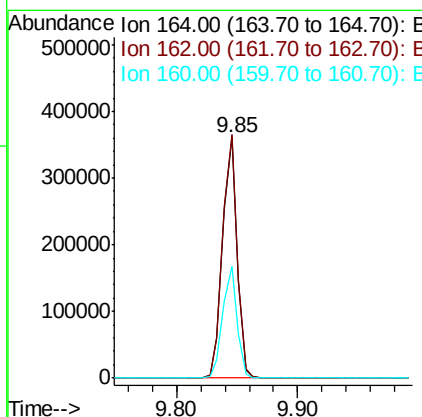
Manual Integrations
 APPROVED

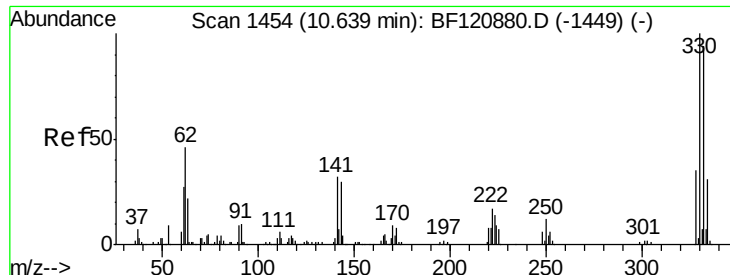
mohammad
 7/30/2020 3:34:25 PM



#39
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.85 min Scan# 1319
 Delta R.T. 0.01 min
 Lab File: BF121117.D
 Acq: 29 Jul 2020 23:03

Tgt Ion	Ratio	Lower	Upper
164	100		
162	101.1	82.2	123.2
160	46.3	37.2	55.8





#42

2,4,6-Tribromophenol

Concen: 13.570 ng

RT: 10.63 min Scan# 1453

Delta R.T. -0.00 min

Lab File: BF121117.D

Acq: 29 Jul 2020 23:03

Instrument :

BNA_F

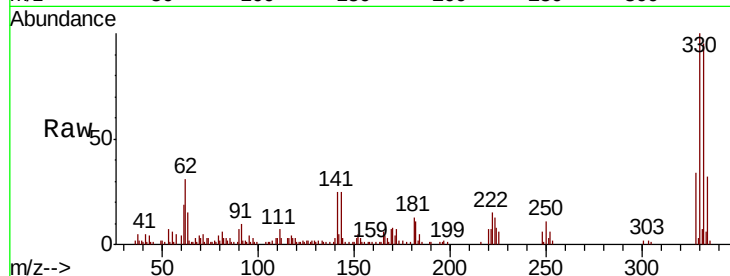
ClientSampled :

9

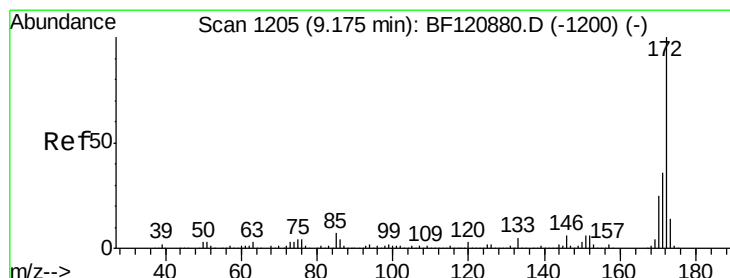
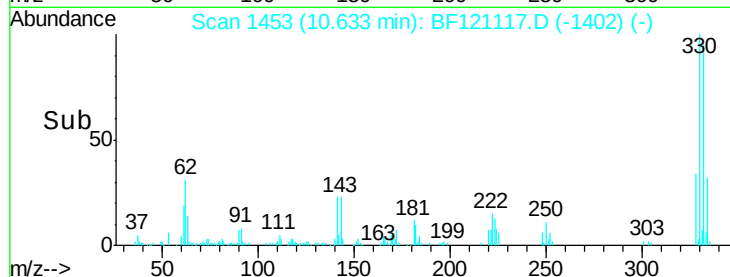
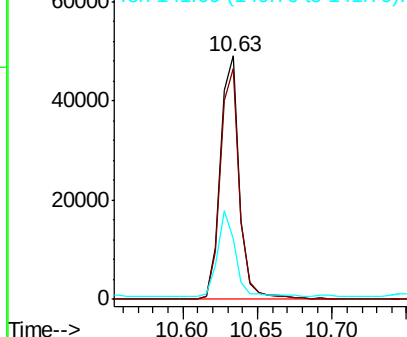
Tot Ion:	330	Resp:	44368
Ion Ratio	Lower	Upper	
330	100		
332	95.3	76.1	114.1
141	32.8	24.1	36.1

Manual Integrations
APPROVED

mohammad
7/30/2020 3:34:25 PM



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: 11.665 ng

RT: 9.16 min Scan# 1203

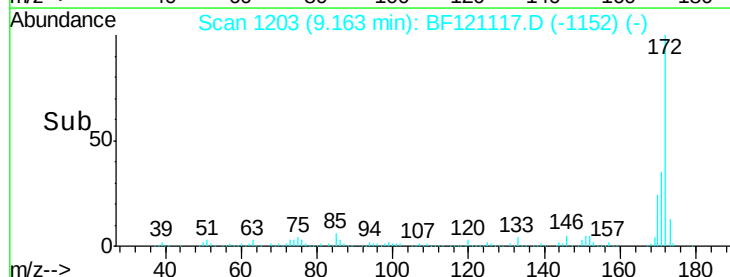
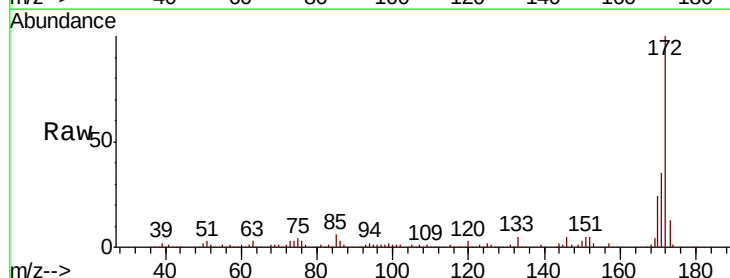
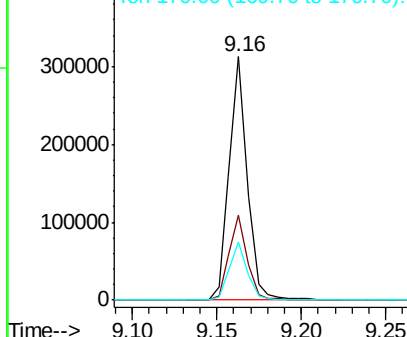
Delta R.T. -0.00 min

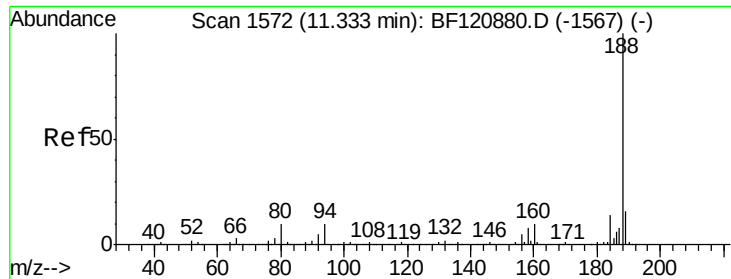
Lab File: BF121117.D

Acq: 29 Jul 2020 23:03

Tgt Ion:	172	Resp:	233373
Ion Ratio	Lower	Upper	
172	100		
171	34.8	29.0	43.4
170	23.8	19.6	29.4

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





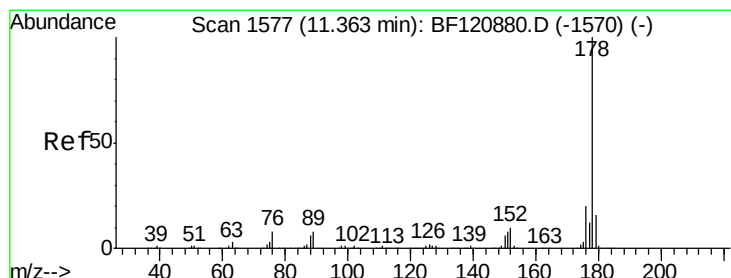
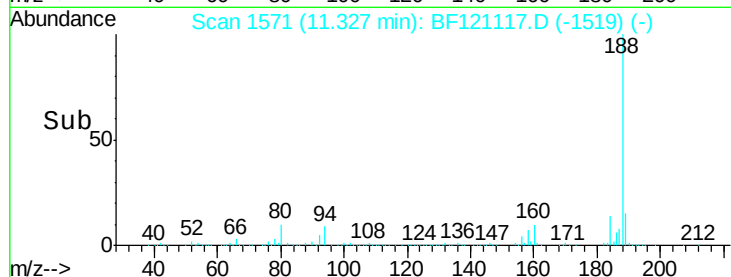
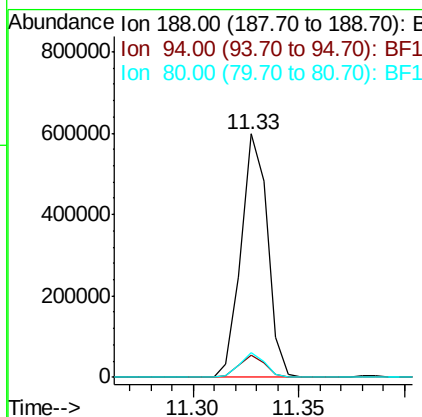
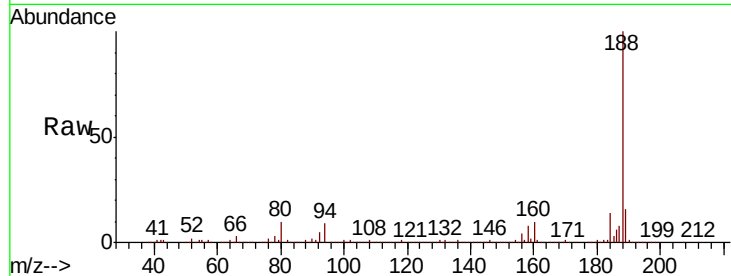
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.33 min Scan# 1571
Delta R.T. 0.01 min
Lab File: BF121117.D
Acq: 29 Jul 2020 23:03

Instrument :
BNA_F
ClientSampleId :
9

Tot Ion	Ratio	Resp	Lower	Upper
188	100	520933		
94	9.4		8.0	12.0
80	10.0		8.3	12.5

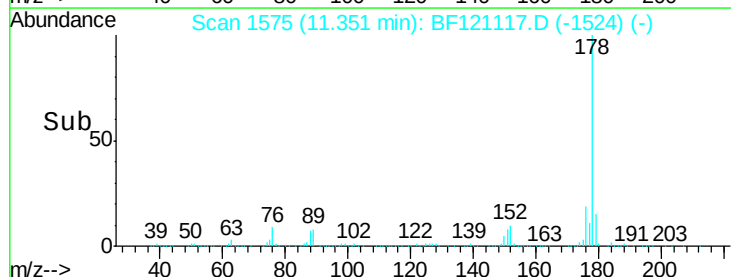
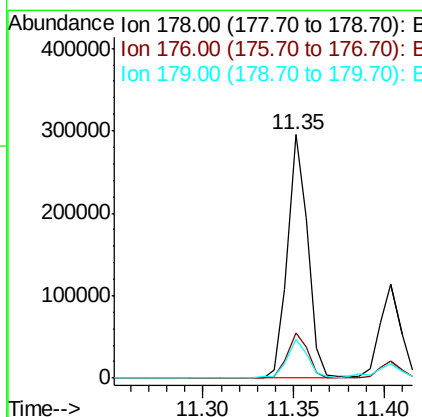
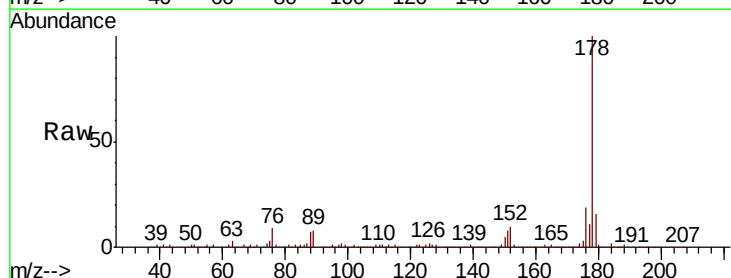
Manual Integrations
APPROVED

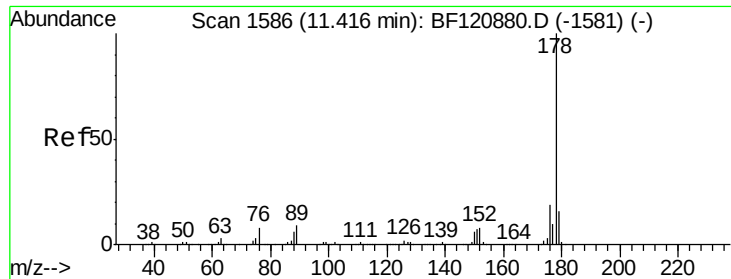
mohammad
7/30/2020 3:34:25 PM



#71
Phenanthrene
Concen: 8.560 ng
RT: 11.35 min Scan# 1575
Delta R.T. -0.00 min
Lab File: BF121117.D
Acq: 29 Jul 2020 23:03

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	229341		
176	18.8		16.2	24.2
179	15.8		12.6	19.0





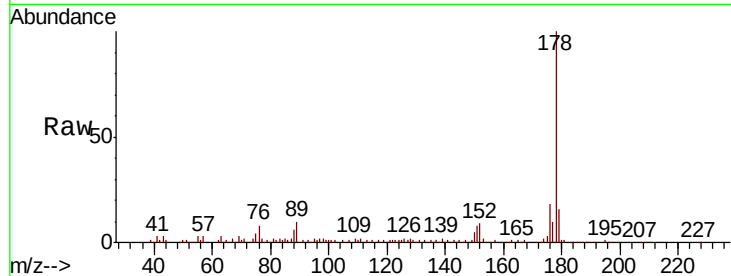
#72
 Anthracene
 Concen: 3.268 ng
 RT: 11.40 min Scan# 1584
 Delta R.T. -0.00 min
 Lab File: BF121117.D
 Acq: 29 Jul 2020 23:03

Instrument :
 BNA_F
 ClientSampleId :
 9

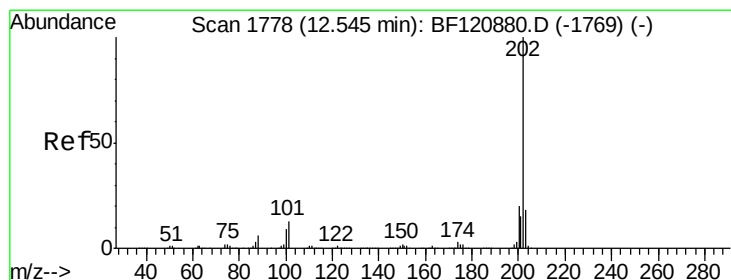
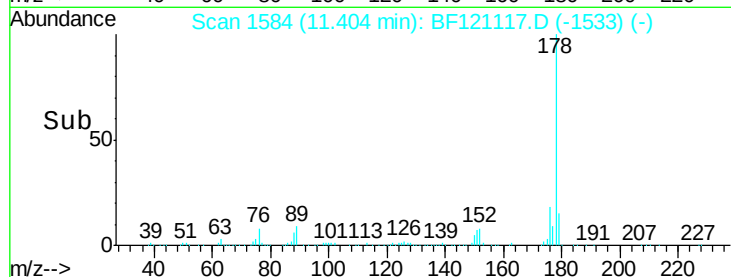
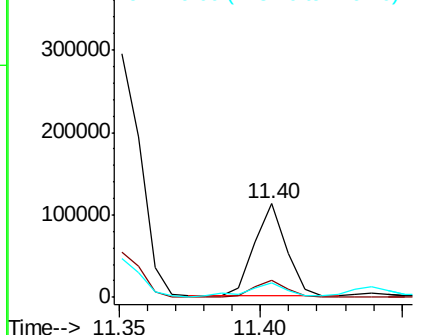
Tot Ion	Ratio	Lower	Upper
178	100		
176	18.1	15.8	23.8
179	15.6	12.6	19.0

Manual Integrations
 APPROVED

mohammad
 7/30/2020 3:34:25 PM

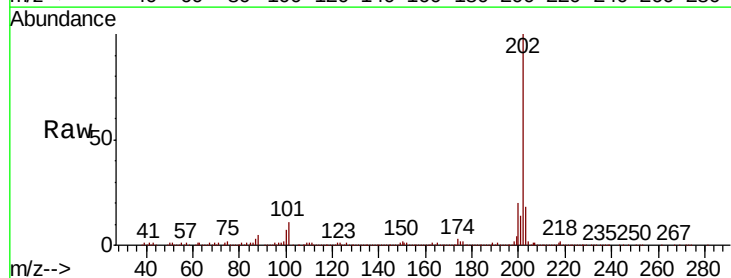


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

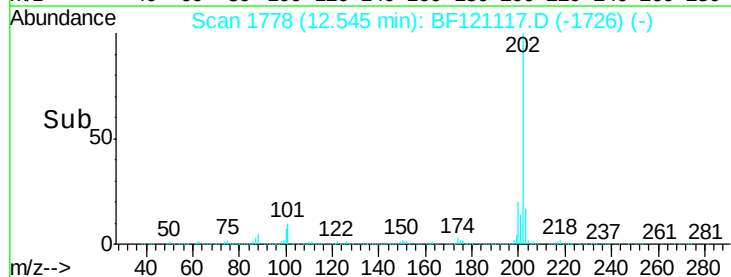
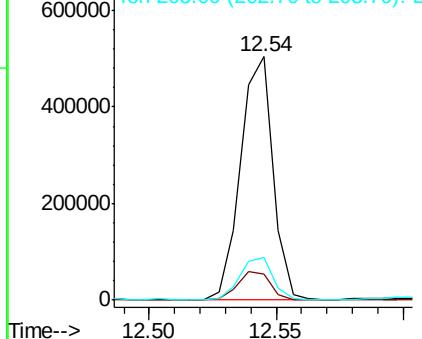


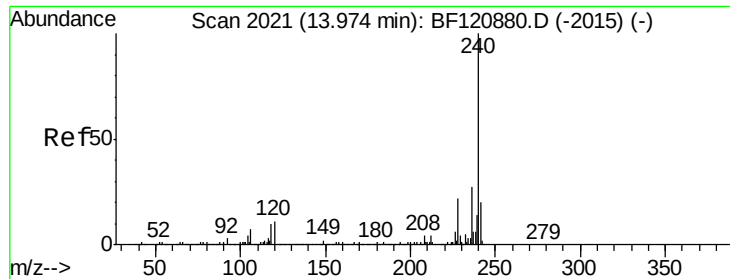
#75
 Fluoranthene
 Concen: 15.076 ng
 RT: 12.54 min Scan# 1778
 Delta R.T. 0.01 min
 Lab File: BF121117.D
 Acq: 29 Jul 2020 23:03

Tgt Ion	Ratio	Lower	Upper
202	100		
101	10.5	0.0	30.5
203	17.5	0.0	37.7



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





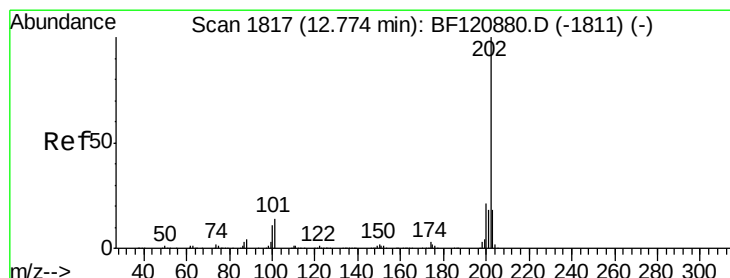
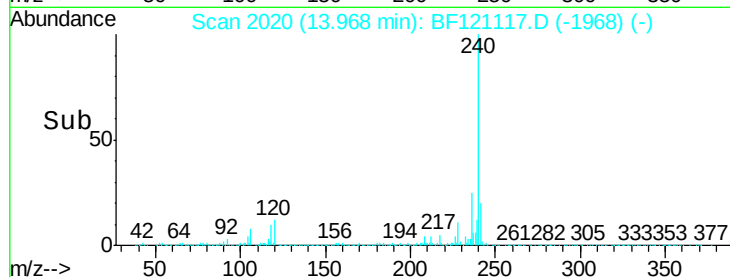
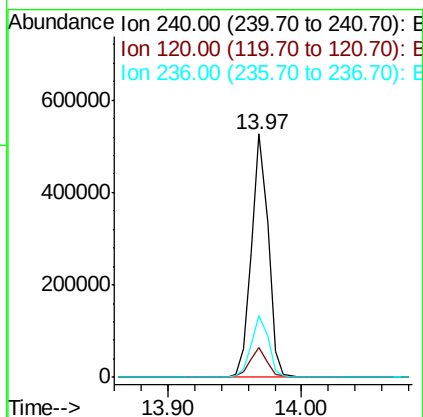
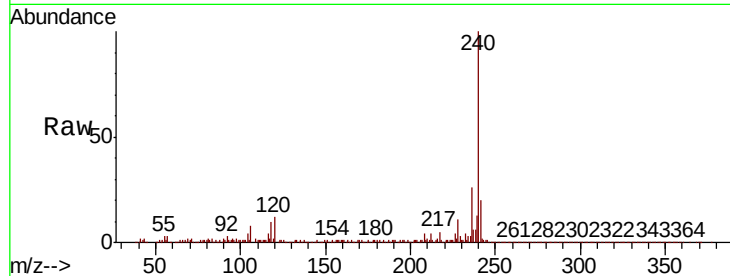
#76
 Chrysene-d12
 Concen: 20.000 ng
 RT: 13.97 min Scan# 2020
 Delta R.T. 0.01 min
 Lab File: BF121117.D
 Acq: 29 Jul 2020 23:03

Instrument :
 BNA_F
 ClientSampleId :
 9

Tot Ion	Ratio	Resp Lower	Upper
240	100		
120	12.0	9.3	13.9
236	25.7	21.1	31.7

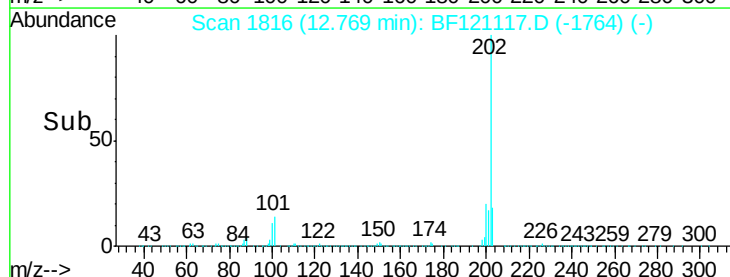
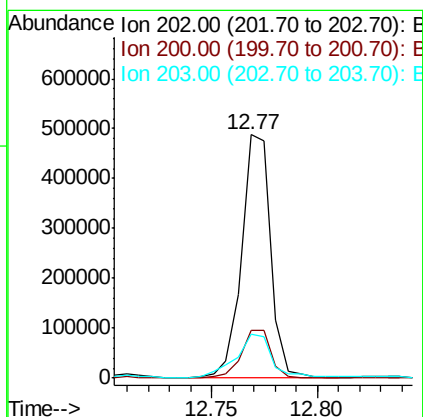
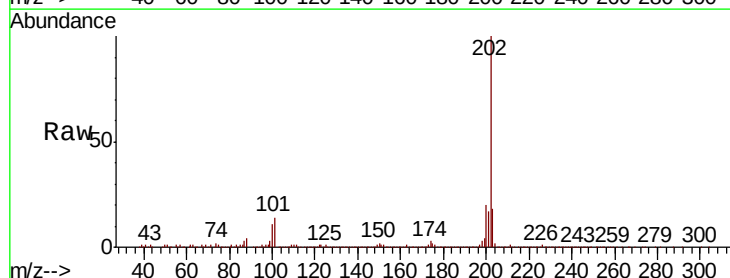
Manual Integrations
 APPROVED

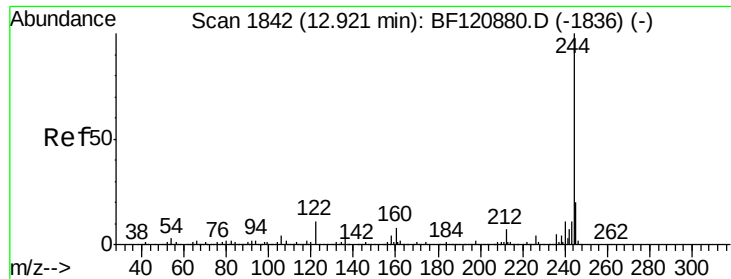
mohammad
 7/30/2020 3:34:25 PM



#78
 Pyrene
 Concen: 14.628 ng
 RT: 12.77 min Scan# 1816
 Delta R.T. 0.01 min
 Lab File: BF121117.D
 Acq: 29 Jul 2020 23:03

Tgt Ion	Ratio	Resp Lower	Upper
202	100		
200	19.9	17.0	25.6
203	18.2	14.6	21.8





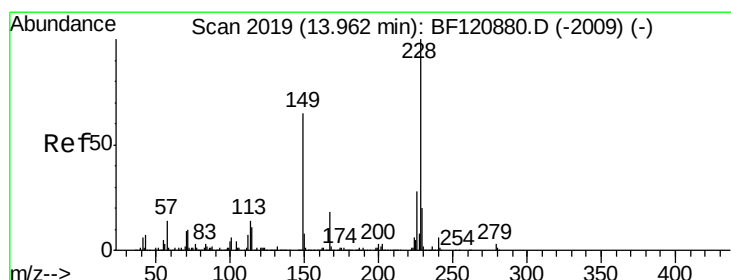
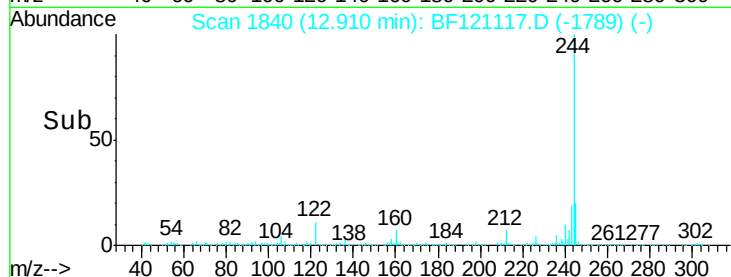
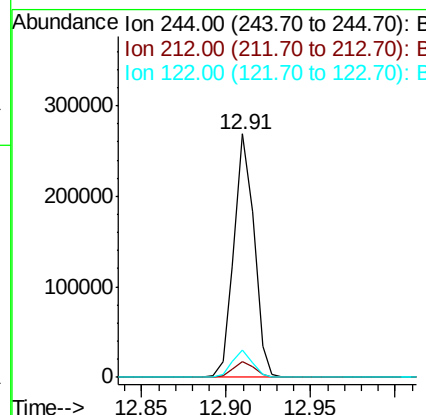
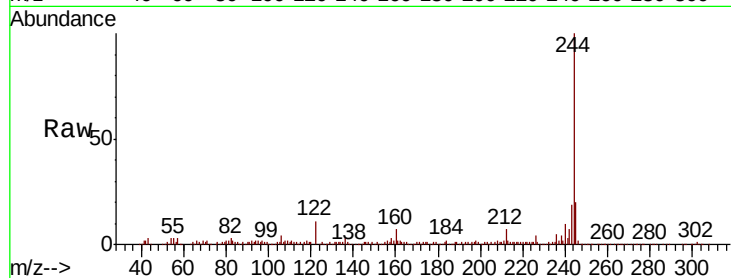
#79
 Terphenyl-d14
 Concen: 10.938 ng
 RT: 12.91 min Scan# 1840
 Delta R.T. -0.00 min
 Lab File: BF121117.D
 Acq: 29 Jul 2020 23:03

Instrument :
 BNA_F
 ClientSampleId :
 9

Tot Ion	Ratio	Lower	Upper
244	100		
212	6.7	5.7	8.5
122	11.1	8.3	12.5

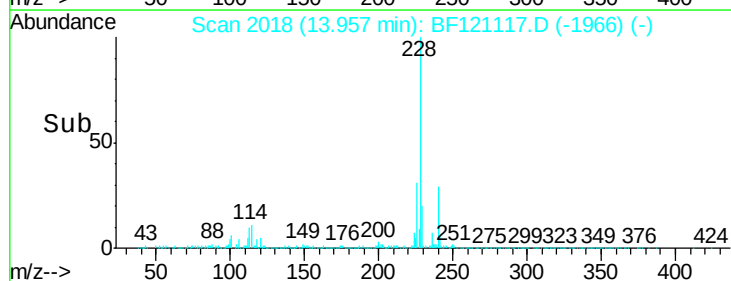
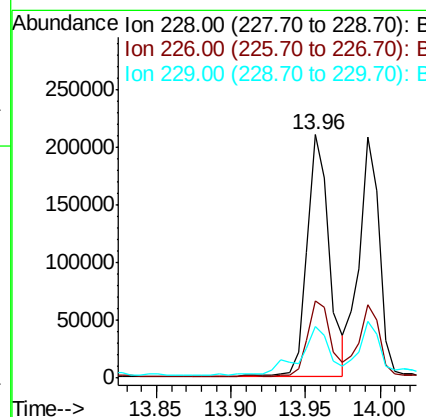
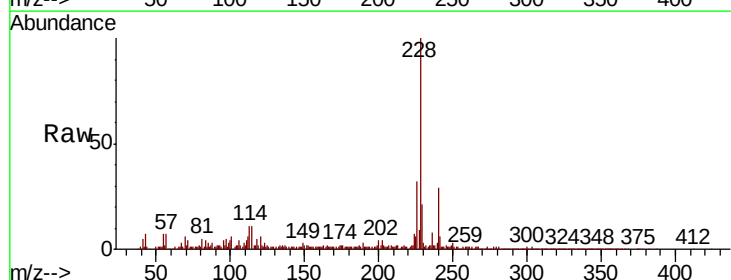
Manual Integrations
 APPROVED

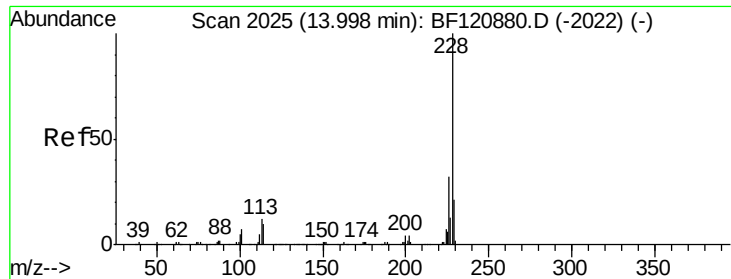
mohammad
 7/30/2020 3:34:25 PM



#81
 Benzo(a)anthracene
 Concen: 8.081 ng
 RT: 13.96 min Scan# 2018
 Delta R.T. 0.01 min
 Lab File: BF121117.D
 Acq: 29 Jul 2020 23:03

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.8	22.6	34.0
229	21.2	16.1	24.1





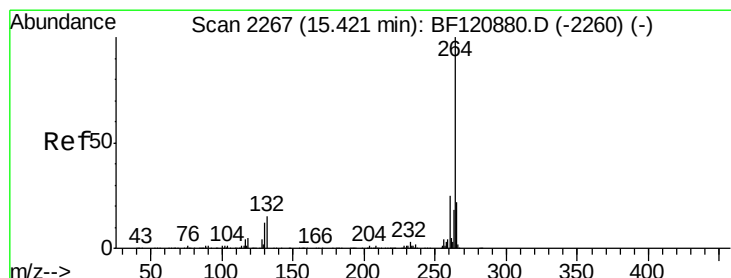
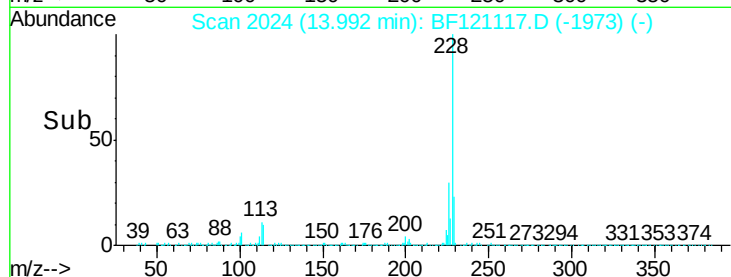
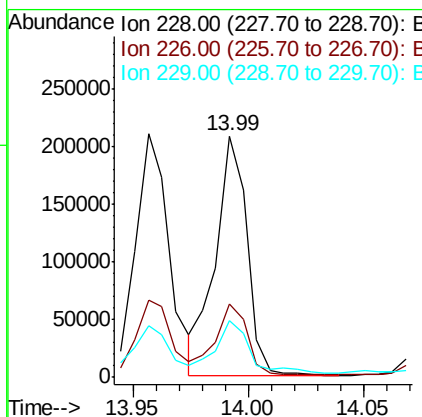
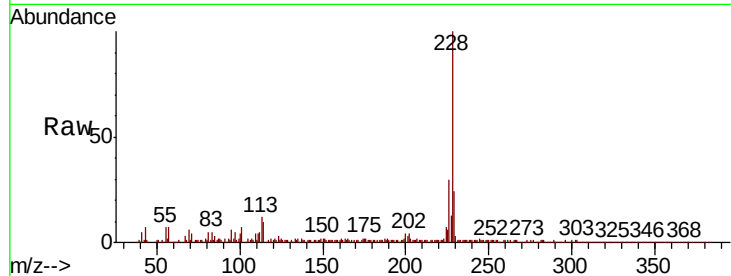
#83
Chrysene
Concen: 6.964 ng
RT: 13.99 min Scan# 2024
Delta R.T. -0.00 min
Lab File: BF121117.D
Acq: 29 Jul 2020 23:03

Instrument :
BNA_F
ClientSampleId :
9

Tot Ion	Ratio	Lower	Upper
228	100		
226	30.2	25.4	38.0
229	23.7	16.2	24.4

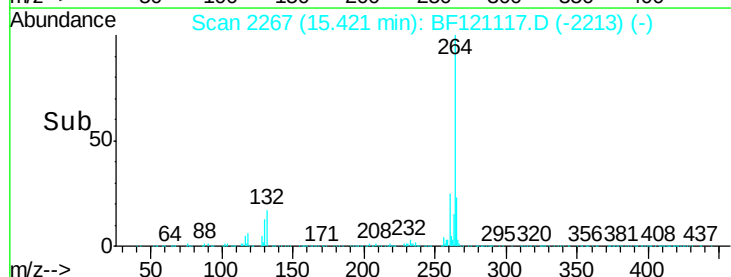
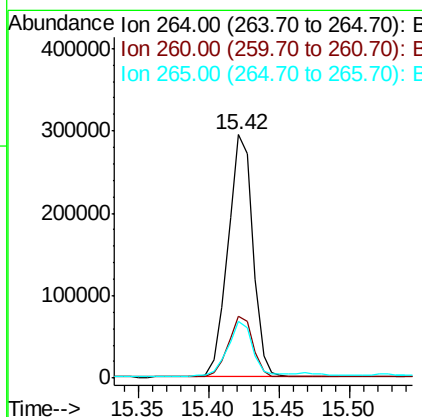
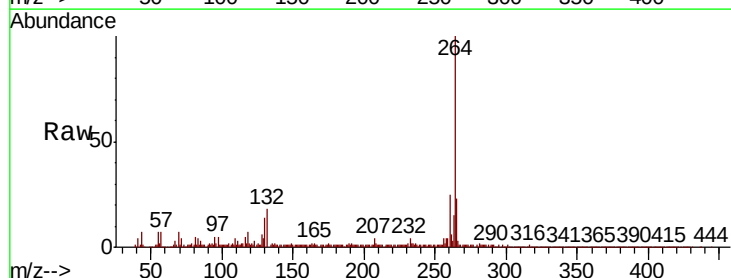
Manual Integrations
APPROVED

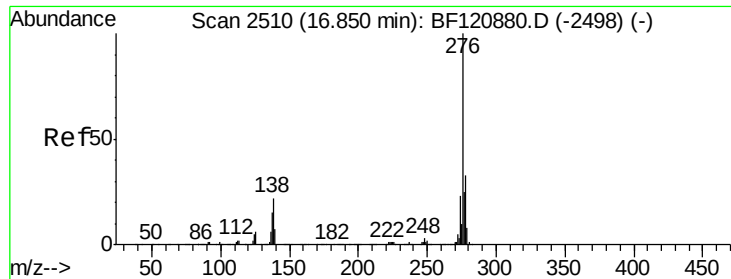
mohammad
7/30/2020 3:34:25 PM



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.42 min Scan# 2267
Delta R.T. 0.02 min
Lab File: BF121117.D
Acq: 29 Jul 2020 23:03

Tgt Ion	Ratio	Lower	Upper
264	100		
260	25.2	19.9	29.9
265	23.3	17.8	26.8





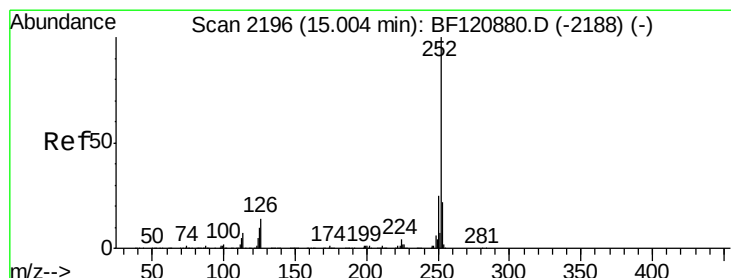
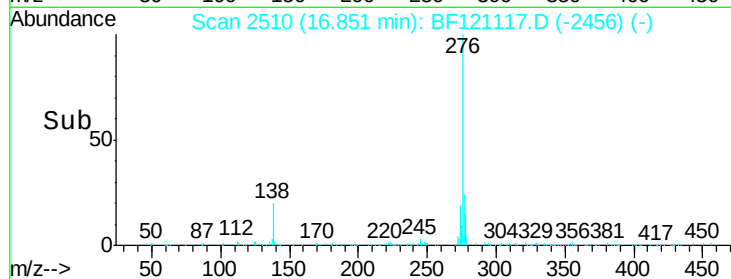
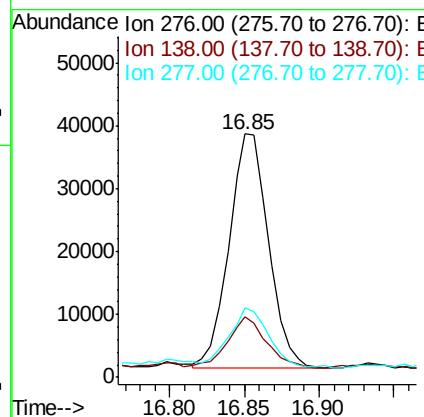
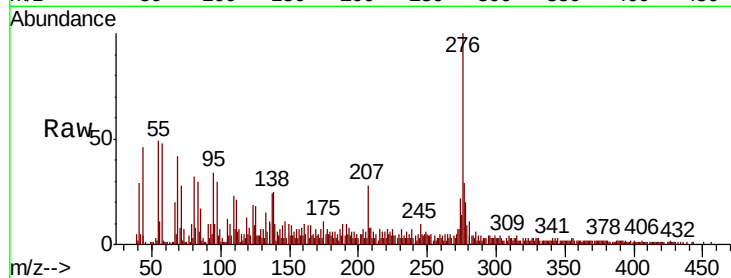
#87
 Indeno(1,2,3-cd)pyrene
 Concen: 2.746 ng
 RT: 16.85 min Scan# 2510
 Delta R.T. 0.02 min
 Lab File: BF121117.D
 Acq: 29 Jul 2020 23:03

Instrument :
 BNA_F
 ClientSampled :
 9

Tot Ion	Ratio	Lower	Upper
276	100		
138	21.8	19.3	28.9
277	26.2	20.1	30.1

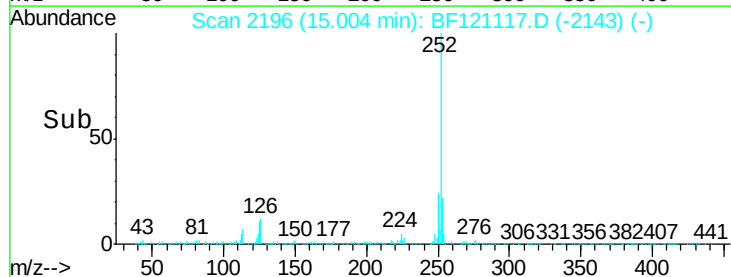
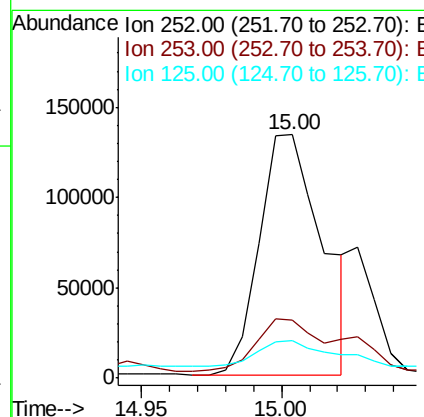
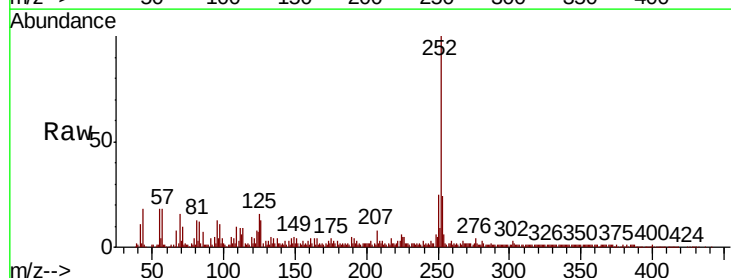
Manual Integrations
 APPROVED

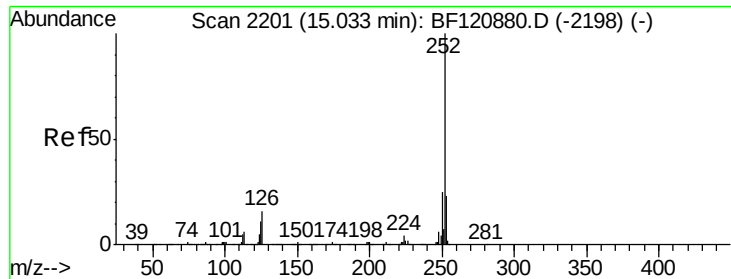
mohammad
 7/30/2020 3:34:25 PM



#88
 Benzo(b)fluoranthene
 Concen: 9.602 ng m
 RT: 15.00 min Scan# 2196
 Delta R.T. 0.01 min
 Lab File: BF121117.D
 Acq: 29 Jul 2020 23:03

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.0	17.9	26.9
125	15.6	8.1	12.1





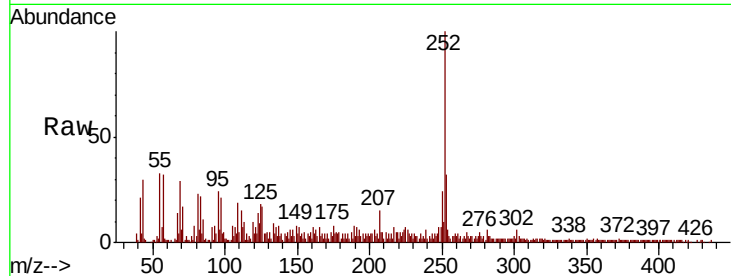
#89
Benzo(k)fluoranthene
Concen: 2.233 ng m
RT: 15.03 min Scan# 2200
Delta R.T. 0.01 min
Lab File: BF121117.D
Acq: 29 Jul 2020 23:03

Instrument :
BNA_F
ClientSampled :
9

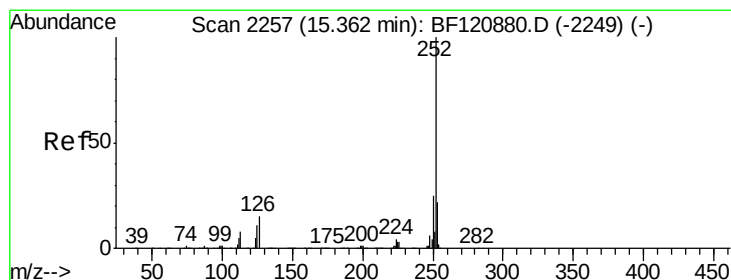
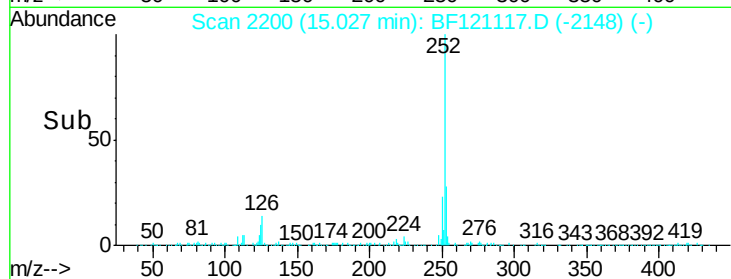
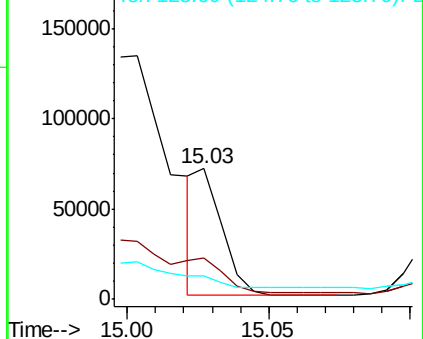
Tot Ion	Ratio	Lower	Upper
252	100		
253	31.7	18.1	27.1#
125	17.9	8.0	12.0#

Manual Integrations
APPROVED

mohammad
7/30/2020 3:34:25 PM

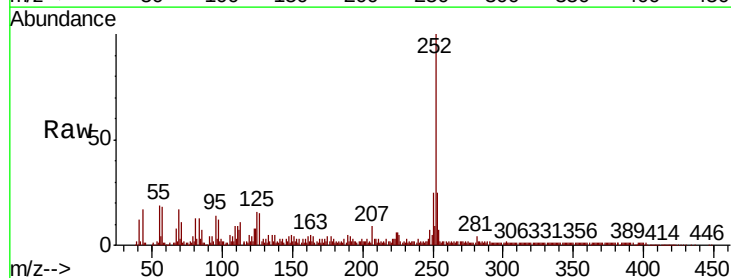


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

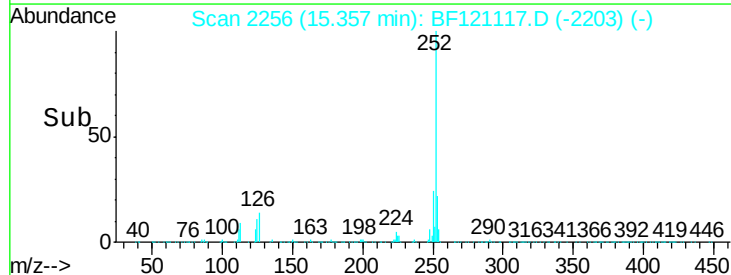
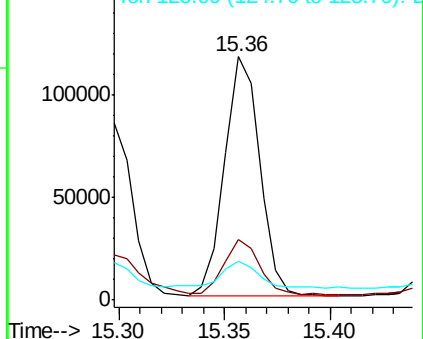


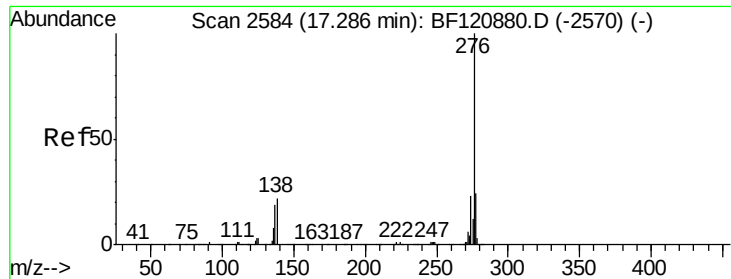
#90
Benzo(a)pyrene
Concen: 6.815 ng
RT: 15.36 min Scan# 2256
Delta R.T. 0.01 min
Lab File: BF121117.D
Acq: 29 Jul 2020 23:03

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.8	18.0	27.0
125	16.0	9.5	14.3#



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E





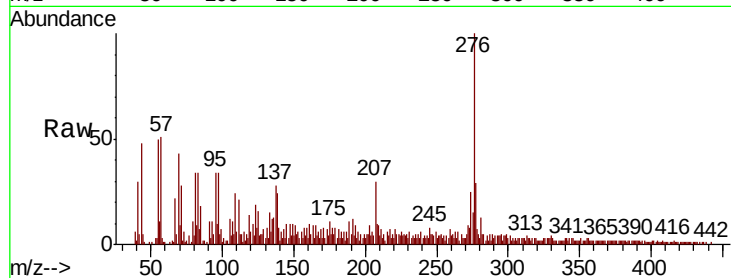
#92
 Benzo(a,h,i)perylene
 Concen: 3.383 ng
 RT: 17.29 min Scan# 2584
 Delta R.T. 0.02 min
 Lab File: BF121117.D
 Acq: 29 Jul 2020 23:03

Instrument :
 BNA_F
 ClientSampleId :
 9

Tot Ion	Ion	Ratio	Lower	Upper
276	100			
277	28.8	19.4	29.0	
138	24.4	17.2	25.8	

Manual Integrations
 APPROVED

mohammad
 7/30/2020 3:34:25 PM



Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

