

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF091520\
 Data File : BF121572.D
 Acq On : 15 Sep 2020 12:01
 Operator : JU/CG
 Sample : L3981-08DL 25X
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 B19-4-6DL

Manual Integrations
 APPROVED

mohammad
 9/16/2020 10:14:34 AM

Quant Time: Sep 22 08:43:08 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF091020.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 10 16:47:54 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.83	152	204295	20.00	ng	0.00
21) Naphthalene-d8	8.12	136	749052	20.00	ng	0.00
39) Acenaphthene-d10	9.87	164	431073	20.00	ng	0.00
64) Phenanthrene-d10	11.35	188	831317	20.00	ng	0.00
76) Chrysene-d12	13.99	240	681190	20.00	ng	0.00
86) Perylene-d12	15.44	264	566949	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.45	112	36716	2.67	ng	0.00
7) Phenol-d6	6.47	99	52654	2.92	ng	0.01
23) Nitrobenzene-d5	7.39	82	33105	2.37	ng	-0.01
42) 2,4,6-Tribromophenol	10.65	330	12325	2.30	ng	0.00
45) 2-Fluorobiphenyl	9.19	172	75341	2.65	ng	0.00
79) Terphenyl-d14	12.93	244	93919	2.79	ng	0.00

Target Compounds				Qvalue		
31) Naphthalene	8.13	128	181721	4.596	ng	98
38) 1-Methylnaphthalene	8.92	142	52514	2.178	ng	97
49) Acenaphthylene	9.73	152	159027	3.806	ng	98
55) Dibenzofuran	10.07	168	100462	2.703	ng	98
58) Fluorene	10.41	166	116030	4.082	ng	99
71) Phenanthrene	11.38	178	1565363	34.560	ng	99
72) Anthracene	11.43	178	197728	4.230	ng	99
73) Carbazole	11.58	167	144202	3.419	ng	97
75) Fluoranthene	12.57	202	1824499	37.735	ng	99
78) Pyrene	12.80	202	1770067	35.565	ng	99
81) Benzo(a)anthracene	13.98	228	743970	17.263	ng	96
83) Chrysene	14.02	228	831425	19.052	ng	99
87) Indeno(1,2,3-cd)pyrene	16.88	276	318349	8.622	ng	95
88) Benzo(b)fluoranthene	15.02	252	786847m	20.761	ng	
89) Benzo(k)fluoranthene	15.04	252	242330m	6.982	ng	
90) Benzo(a)pyrene	15.38	252	519744	16.132	ng	97
91) Dibenzo(a,h)anthracene	16.89	278	83275	2.709	ng	93
92) Benzo(g,h,i)perylene	17.32	276	305760	10.121	ng	99

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

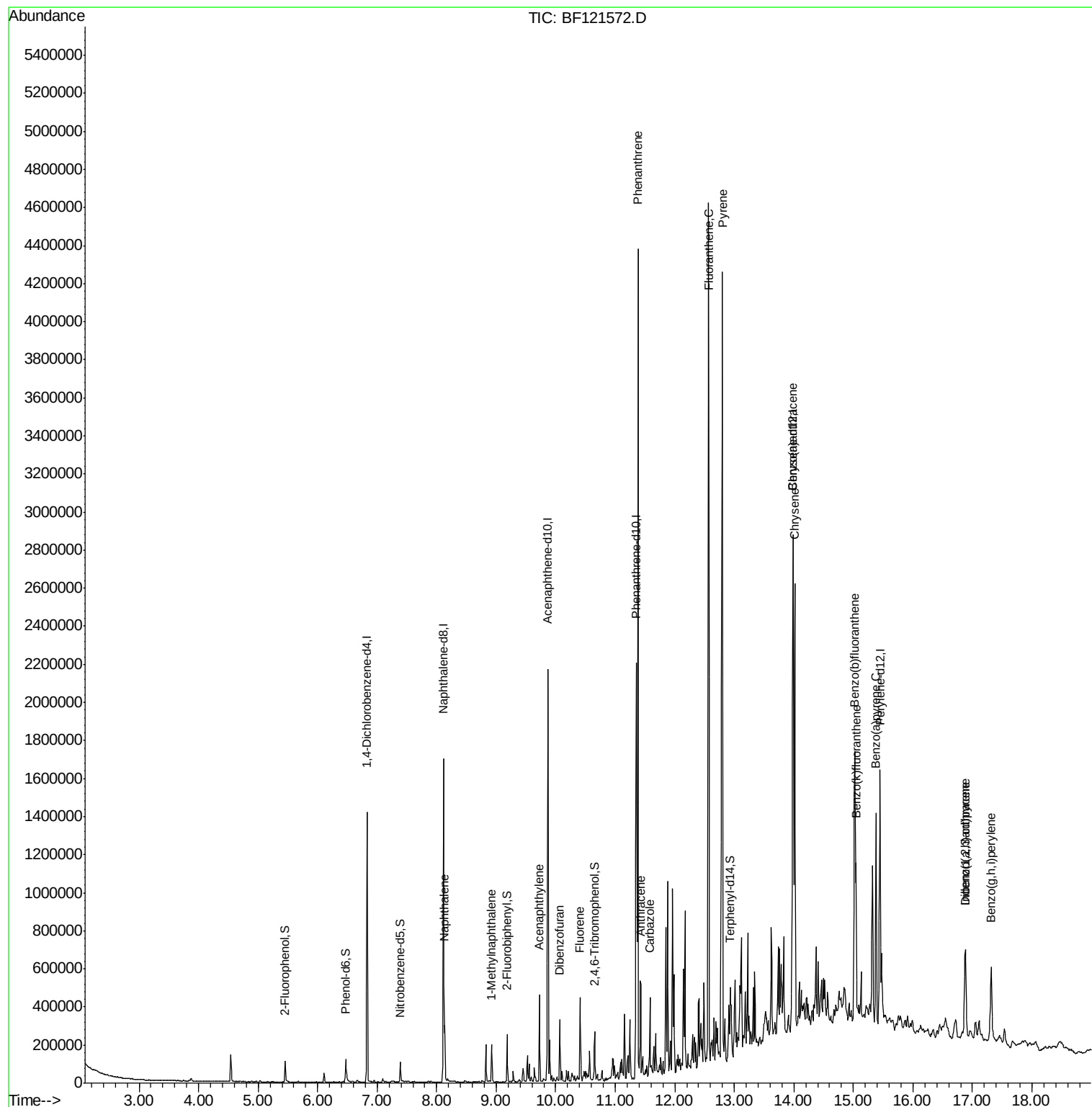
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF091520\
Data File : BF121572.D
Acq On : 15 Sep 2020 12:01
Operator : JU/CG
Sample : L3981-08DL 25X
Misc :
ALS Vial : 5 Sample Multiplier: 1

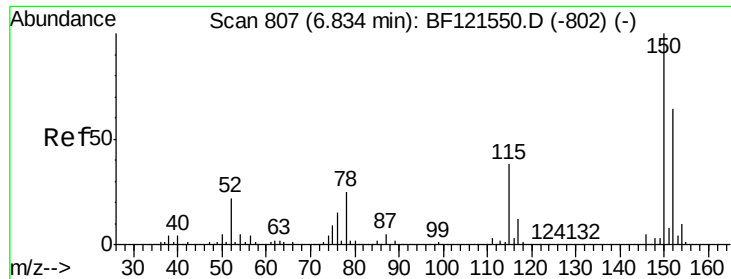
Instrument :
BNA_F
ClientSampleId :
B19-4-6DL

Manual Integrations
APPROVED

mohammad
9/16/2020 10:14:34 AM

Quant Time: Sep 22 08:43:08 2020
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF091020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 10 16:47:54 2020
Response via : Initial Calibration





#1

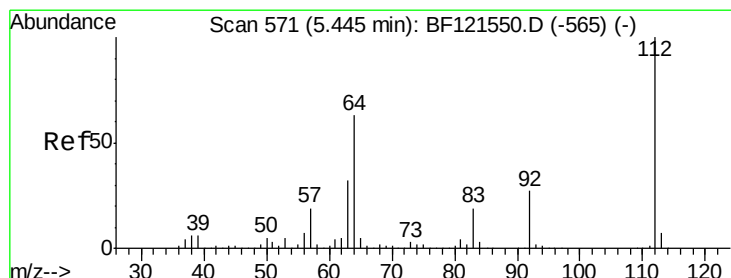
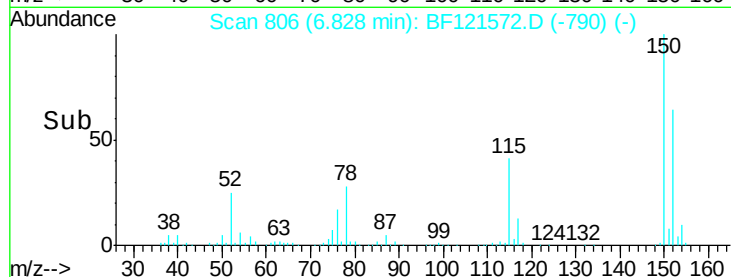
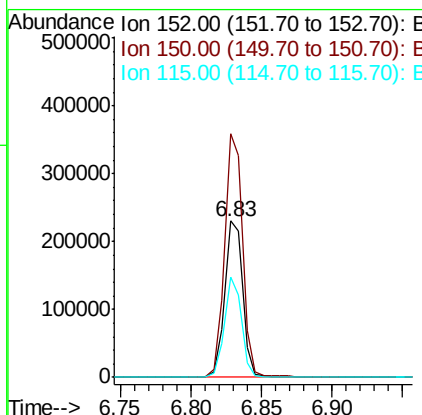
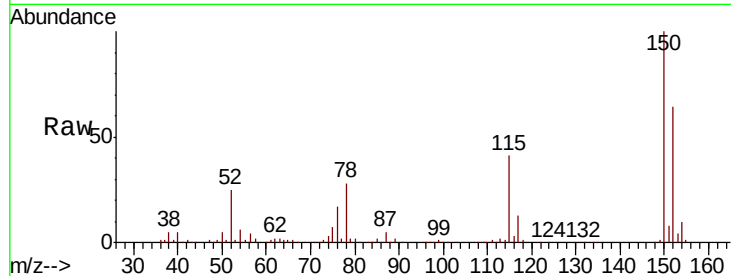
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.83 min Scan# 806
Delta R.T. -0.01 min
Lab File: BF121572.D
Acq: 15 Sep 2020 12:01

Instrument :
BNA_F
ClientSampleId :
B19-4-6DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	156.0	125.8	188.6
115	64.5	47.8	71.8

Manual Integrations
APPROVED

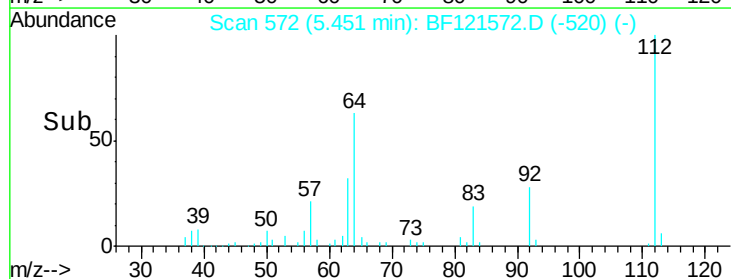
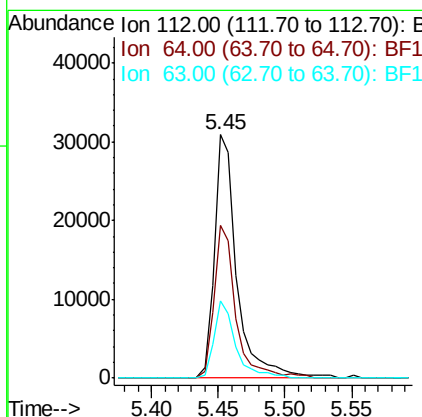
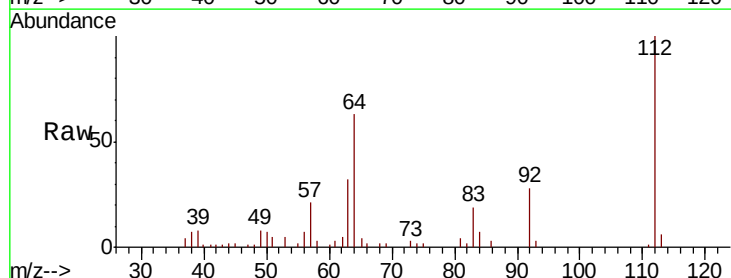
mohammad
9/16/2020 10:14:34 AM

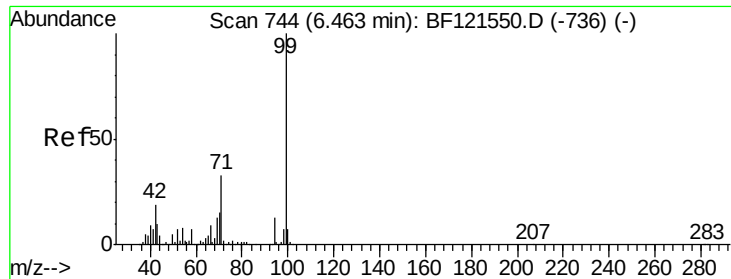


#5

2-Fluorophenol
Concen: 2.671 ng
RT: 5.45 min Scan# 572
Delta R.T. 0.01 min
Lab File: BF121572.D
Acq: 15 Sep 2020 12:01

Tgt Ion	Ratio	Lower	Upper
112	100		
64	62.9	50.3	75.5
63	31.8	25.6	38.4





#7

Phenol-d6

Concen: 2.920 ng

RT: 6.47 min Scan# 746

Delta R.T. 0.01 min

Lab File: BF121572.D

Acq: 15 Sep 2020 12:01

Instrument :

BNA_F

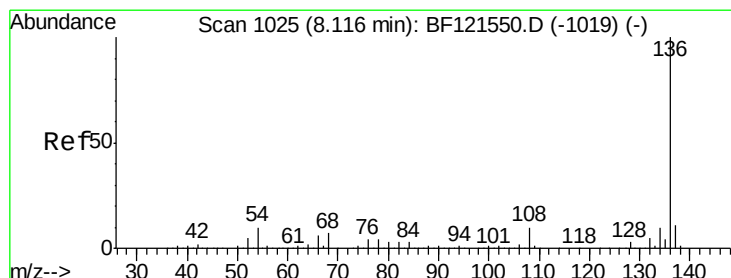
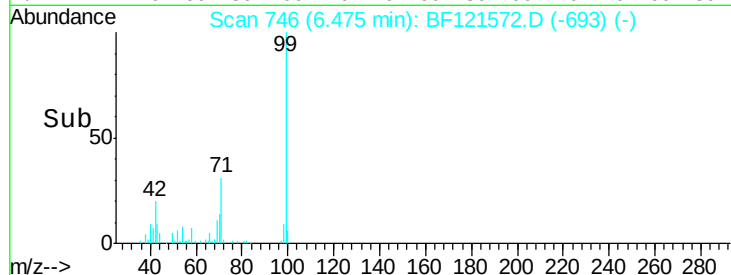
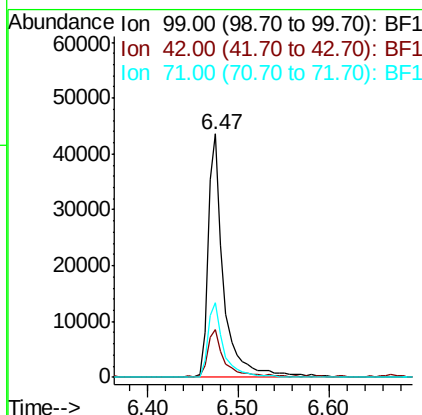
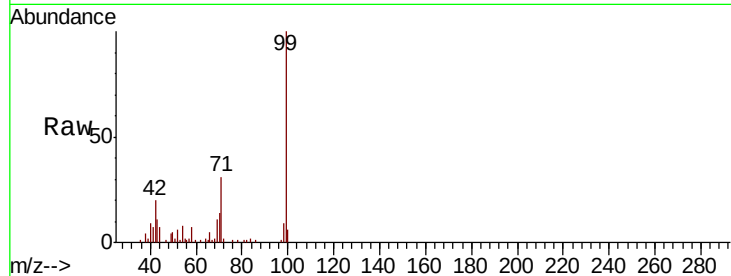
ClientSampleId :

B19-4-6DL

Tot Ion:	99	Resp:	52654
Ion	Ratio	Lower	Upper
99	100		
42	19.5	15.5	23.3
71	30.8	26.1	39.1

Manual Integrations
APPROVED

mohammad
9/16/2020 10:14:34 AM



#21

Naphthalene-d8

Concen: 20.000 ng

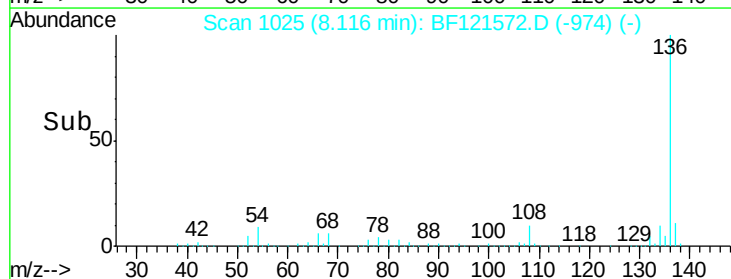
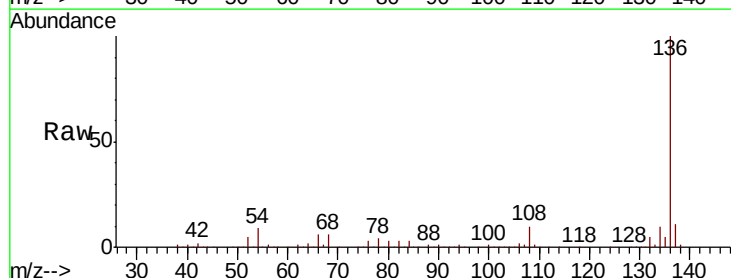
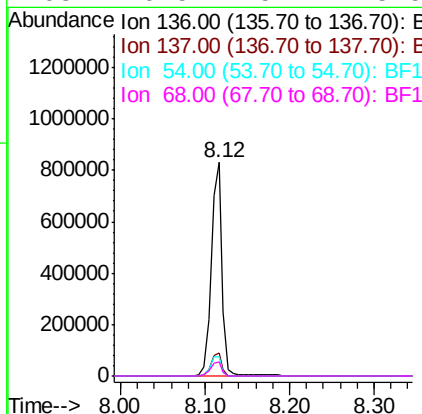
RT: 8.12 min Scan# 1025

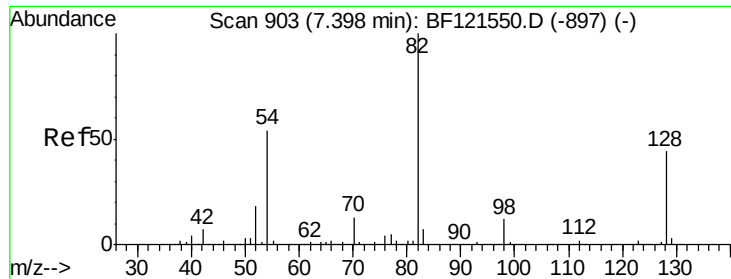
Delta R.T. 0.00 min

Lab File: BF121572.D

Acq: 15 Sep 2020 12:01

Tgt Ion:	136	Resp:	749052
Ion	Ratio	Lower	Upper
136	100		
137	10.6	9.0	13.6
54	8.8	7.6	11.4
68	6.5	5.7	8.5





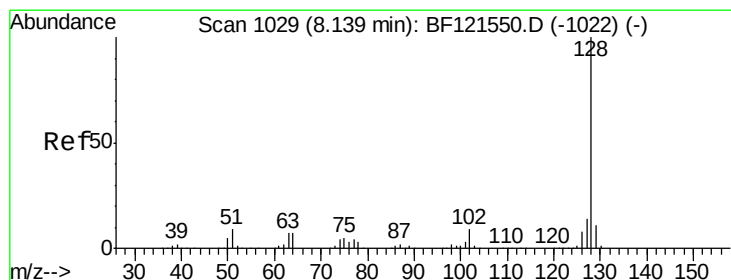
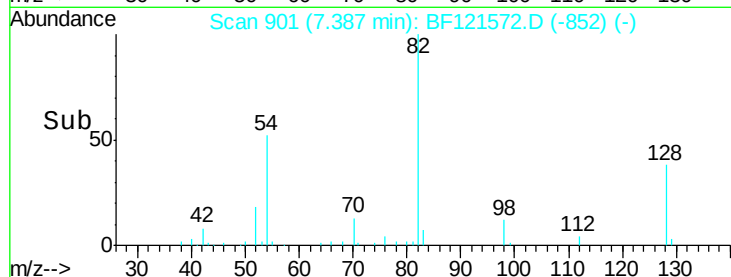
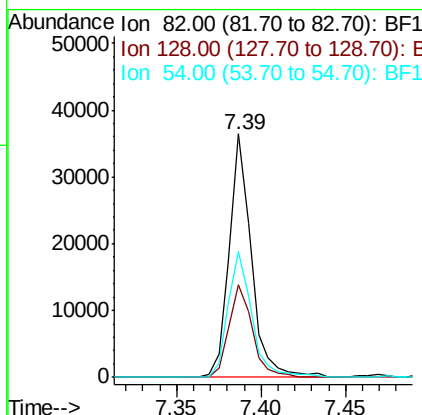
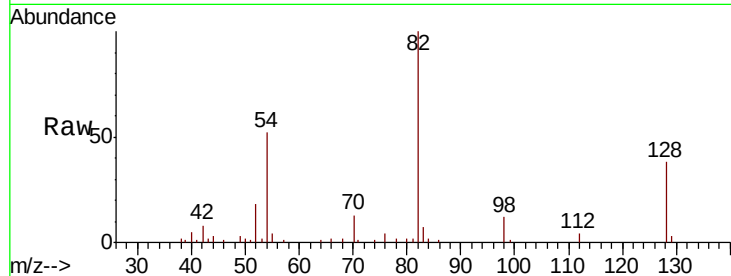
#23
Nitrobenzene-d5
Concen: 2.373 ng
RT: 7.39 min Scan# 901
Delta R.T. -0.01 min
Lab File: BF121572.D
Acq: 15 Sep 2020 12:01

Instrument :
BNA_F
ClientSampleId :
B19-4-6DL

Tot Ion:	82	Resp:	33105
Ion Ratio	Lower	Upper	
82	100		
128	38.2	35.1	52.7
54	51.7	43.0	64.6

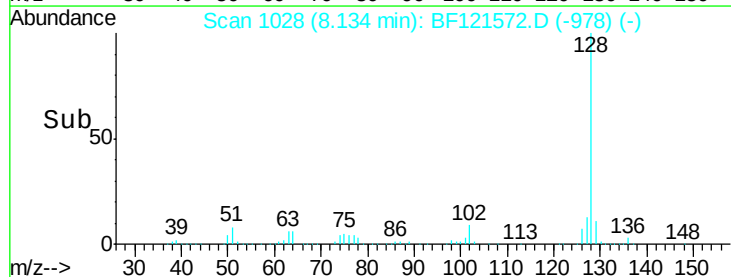
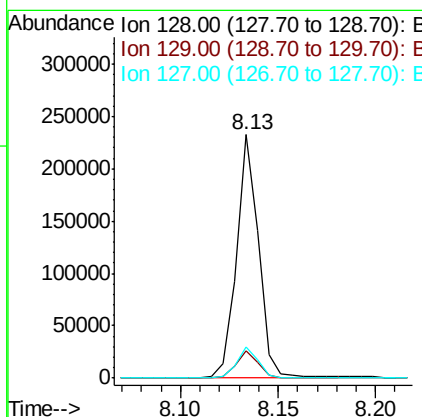
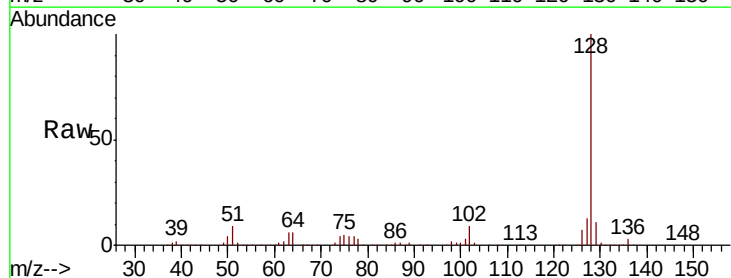
Manual Integrations
APPROVED

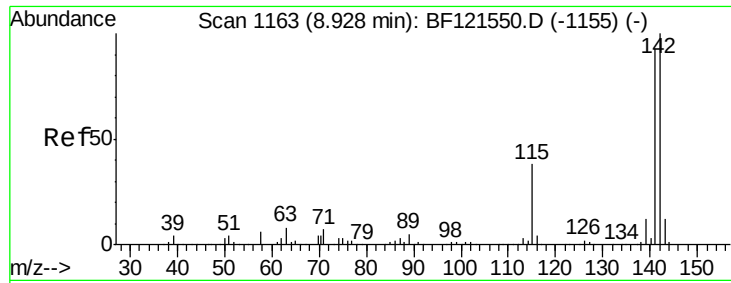
mohammad
9/16/2020 10:14:34 AM



#31
Naphthalene
Concen: 4.596 ng
RT: 8.13 min Scan# 1028
Delta R.T. -0.01 min
Lab File: BF121572.D
Acq: 15 Sep 2020 12:01

Tgt Ion:	128	Resp:	181721
Ion Ratio	Lower	Upper	
128	100		
129	11.0	9.1	13.7
127	12.7	11.0	16.6





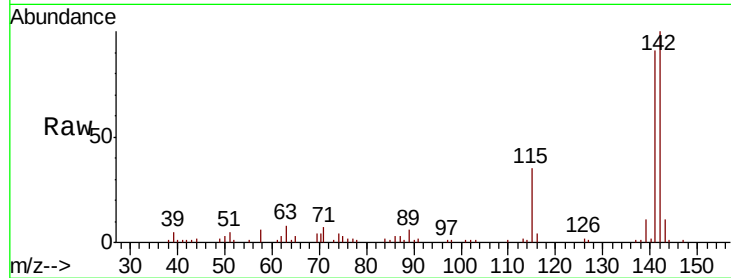
#38
1-Methylnaphthalene
Concen: 2.178 ng
RT: 8.92 min Scan# 1162
Delta R.T. -0.01 min
Lab File: BF121572.D
Acq: 15 Sep 2020 12:01

Instrument :
BNA_F
ClientSampleId :
B19-4-6DL

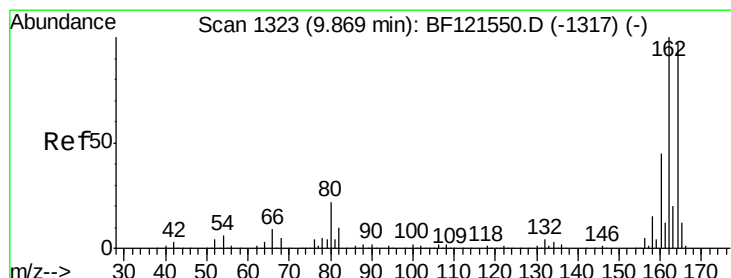
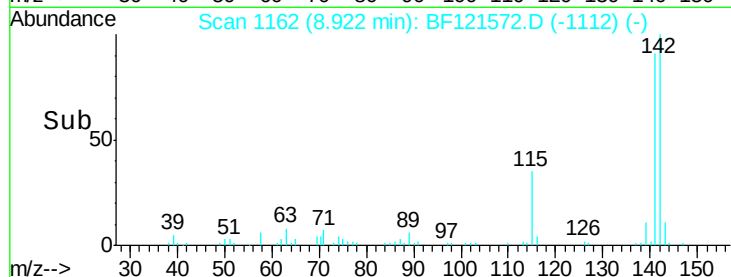
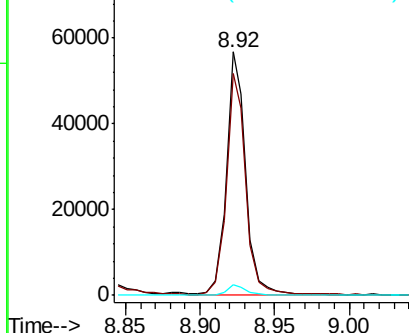
Tot Ion	Ratio	Resp	Lower	Upper
142	100	52514		
141	90.9	74.8	112.2	
116	4.5	3.0	4.6	

Manual Integrations
APPROVED

mohammad
9/16/2020 10:14:34 AM

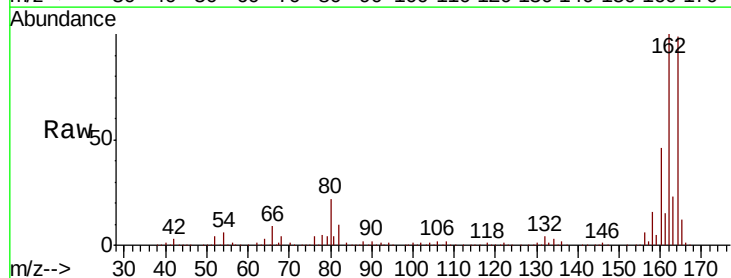


Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 116.00 (115.70 to 116.70): E

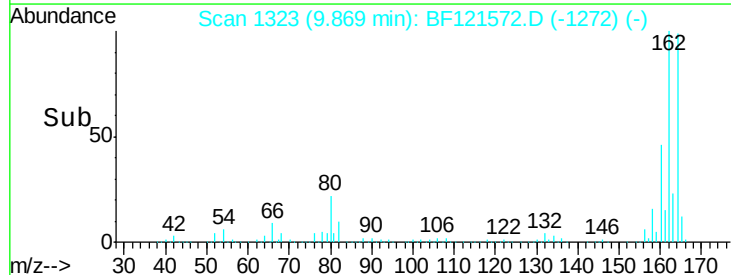
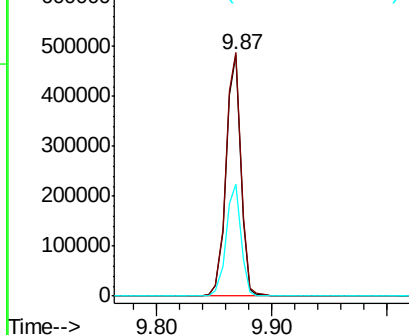


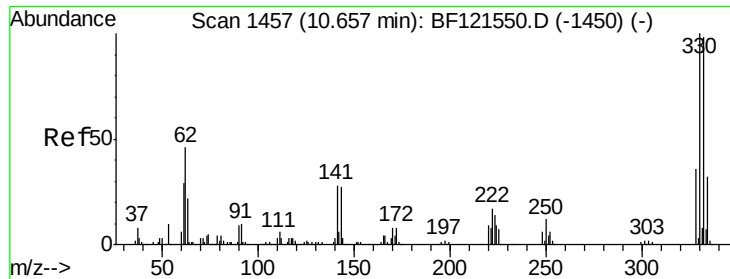
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.87 min Scan# 1323
Delta R.T. 0.00 min
Lab File: BF121572.D
Acq: 15 Sep 2020 12:01

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	431073		
162	100.8	82.3	123.5	
160	46.3	37.0	55.4	



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: 2.300 ng

RT: 10.65 min Scan# 1456

Delta R.T. -0.01 min

Lab File: BF121572.D

Acq: 15 Sep 2020 12:01

Instrument :

BNA_F

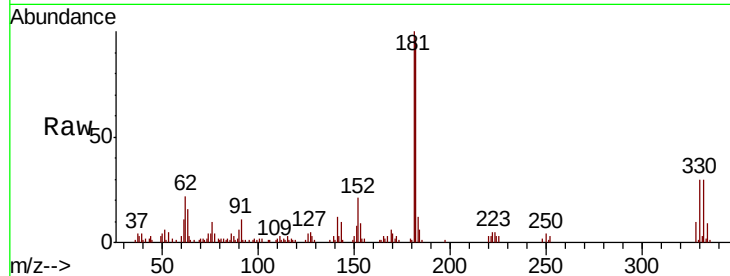
ClientSampleId :

B19-4-6DL

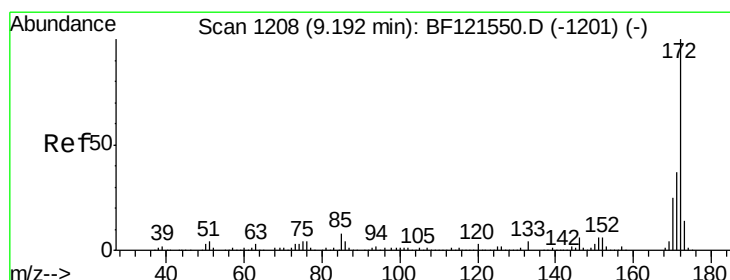
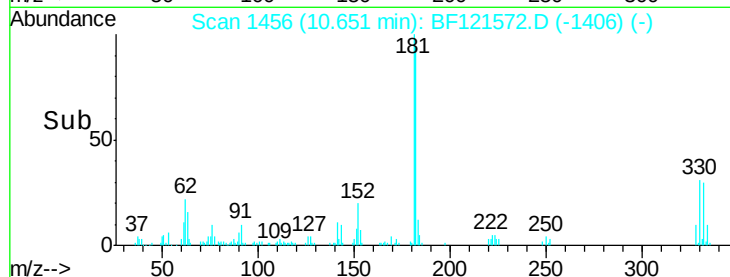
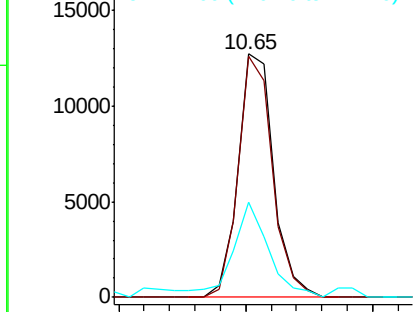
Tot Ion:	330	Resp:	12325
Ion Ratio	Lower	Upper	
330	100		
332	95.7	77.1	115.7
141	40.2	23.6	35.4#

Manual Integrations
APPROVED

mohammad
9/16/2020 10:14:34 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: 2.647 ng

RT: 9.19 min Scan# 1207

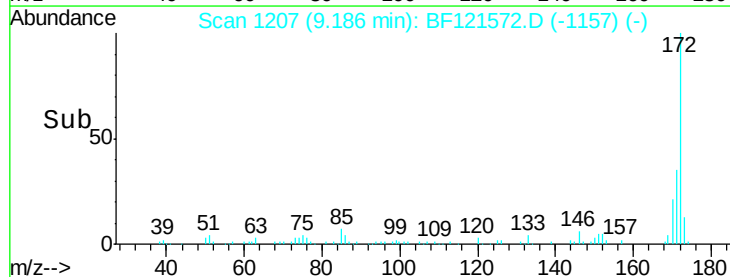
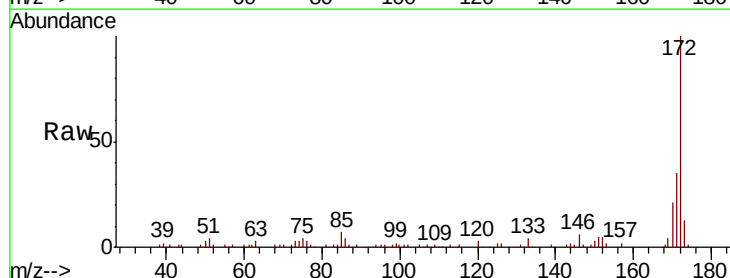
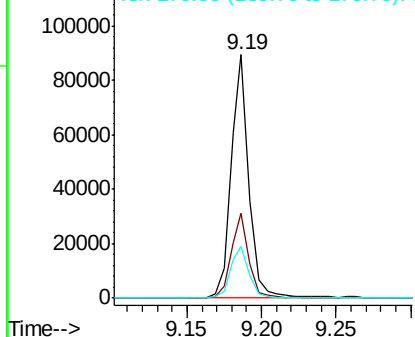
Delta R.T. -0.01 min

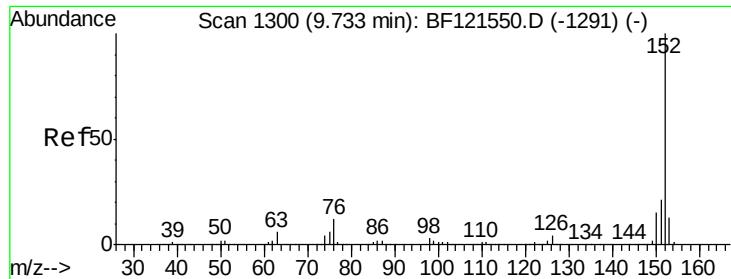
Lab File: BF121572.D

Acq: 15 Sep 2020 12:01

Tgt Ion:	172	Resp:	75341
Ion Ratio	Lower	Upper	
172	100		
171	34.7	29.8	44.6
170	21.4	19.8	29.8

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: 3.806 ng

RT: 9.73 min Scan# 1299

Delta R.T. -0.01 min

Lab File: BF121572.D

Acq: 15 Sep 2020 12:01

Instrument :

BNA_F

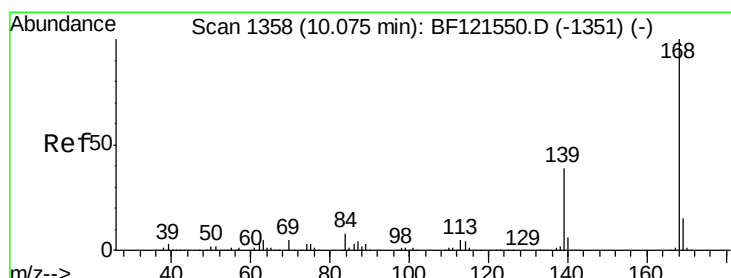
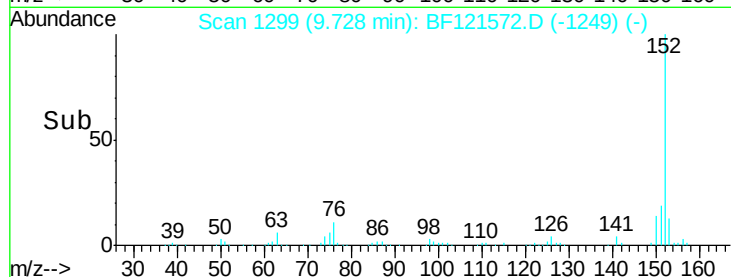
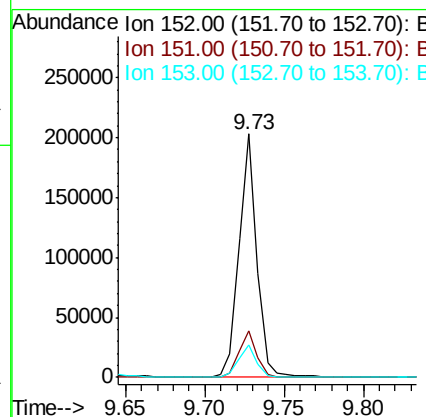
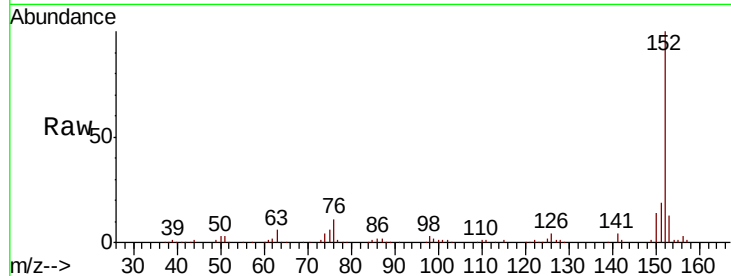
ClientSampled :

B19-4-6DL

Tot Ion:	152	Resp:	159027
Ion Ratio	Lower	Upper	
152	100		
151	19.3	16.6	24.8
153	13.3	10.7	16.1

Manual Integrations
APPROVED

mohammad
9/16/2020 10:14:34 AM



#55

Dibenzofuran

Concen: 2.703 ng

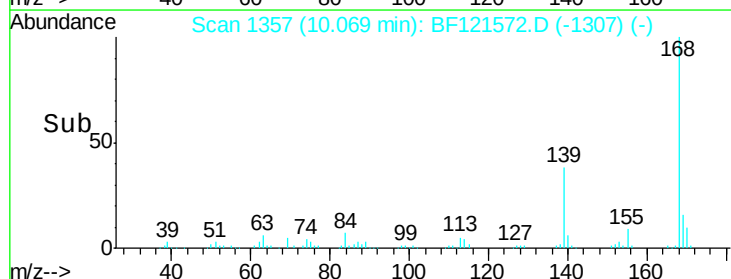
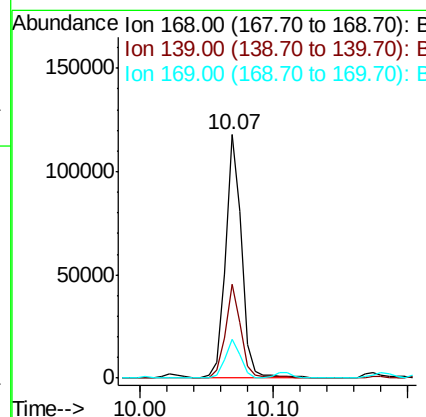
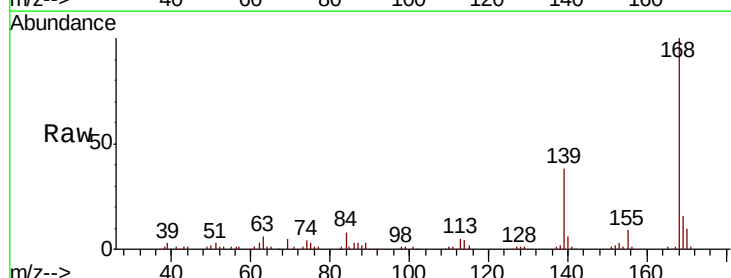
RT: 10.07 min Scan# 1357

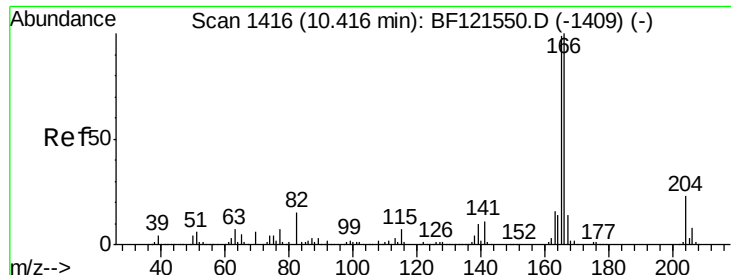
Delta R.T. -0.01 min

Lab File: BF121572.D

Acq: 15 Sep 2020 12:01

Tgt Ion:	168	Resp:	100462
Ion Ratio	Lower	Upper	
168	100		
139	38.3	31.4	47.0
169	15.7	11.9	17.9





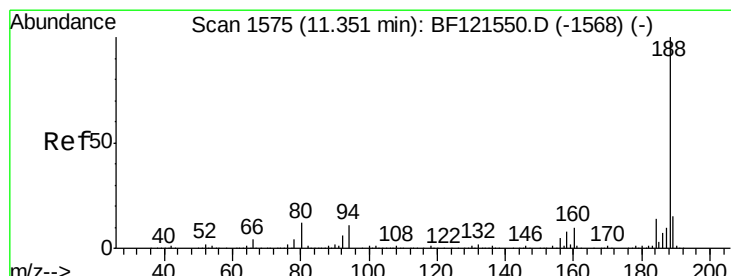
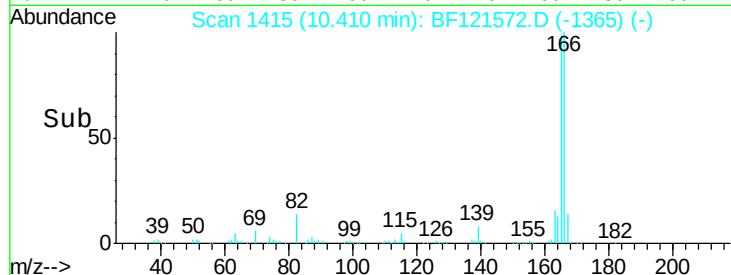
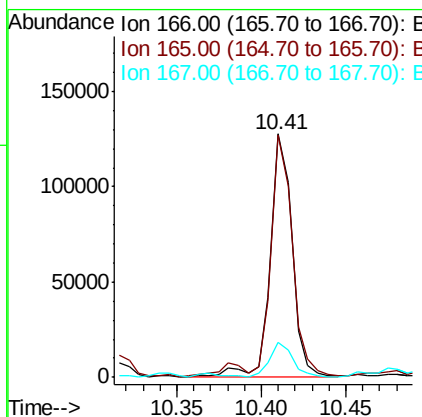
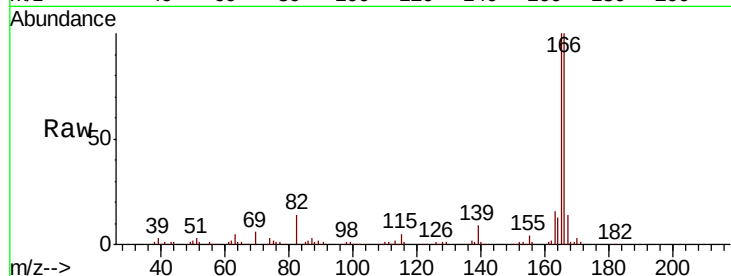
#58
 Fluorene
 Concen: 4.082 ng
 RT: 10.41 min Scan# 1415
 Delta R.T. -0.01 min
 Lab File: BF121572.D
 Acq: 15 Sep 2020 12:01

Instrument :
 BNA_F
 ClientSampleId :
 B19-4-6DL

Tot Ion	Ratio	Resp	Lower	Upper
166	100	116030		
165	99.6	79.0	118.4	
167	14.3	11.0	16.6	

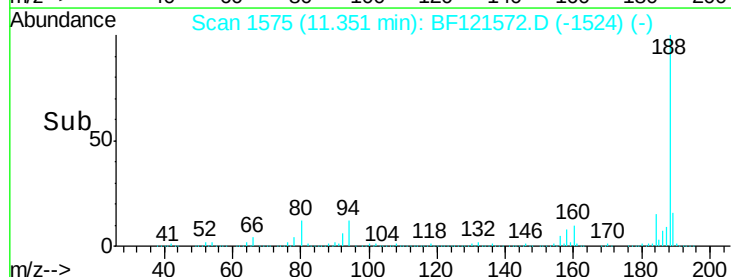
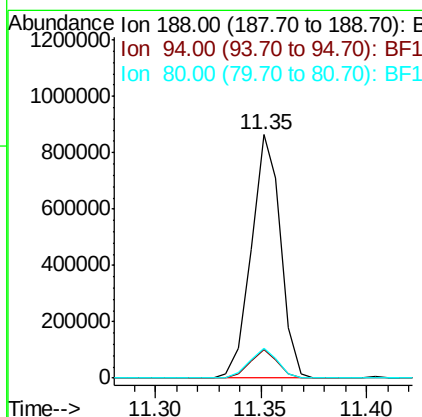
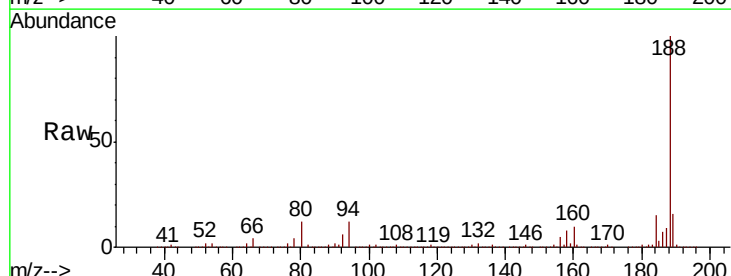
Manual Integrations
 APPROVED

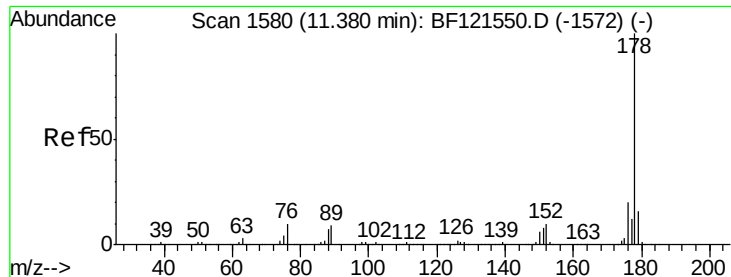
mohammad
 9/16/2020 10:14:34 AM



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.35 min Scan# 1575
 Delta R.T. 0.00 min
 Lab File: BF121572.D
 Acq: 15 Sep 2020 12:01

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	831317		
94	11.6	8.7	13.1	
80	12.2	9.3	13.9	





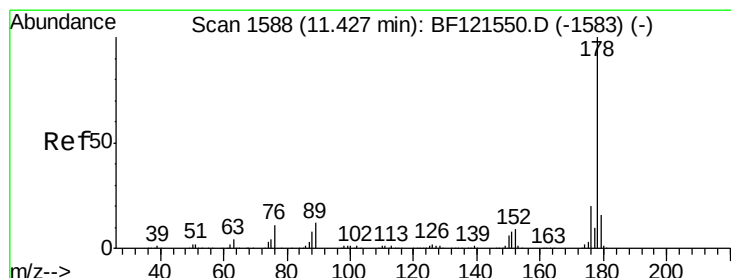
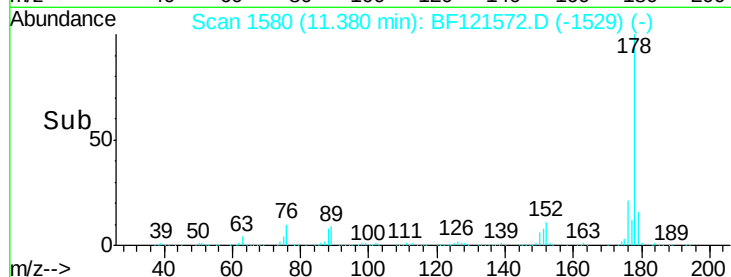
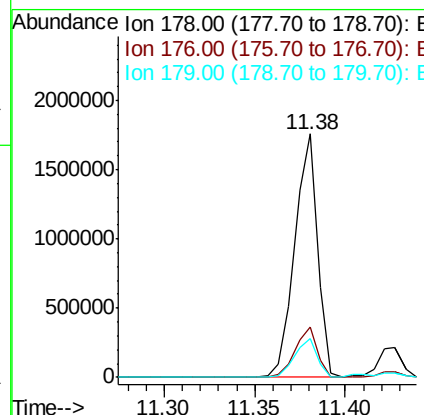
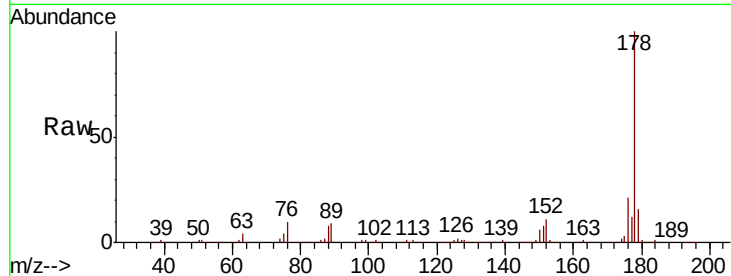
#71
Phenanthrene
Concen: 34.560 ng
RT: 11.38 min Scan# 1580
Delta R.T. 0.00 min
Lab File: BF121572.D
Acq: 15 Sep 2020 12:01

Instrument :
BNA_F
ClientSampleId :
B19-4-6DL

Tot Ion	Ratio	Lower	Upper
178	100		
176	20.6	16.2	24.4
179	16.0	12.6	19.0

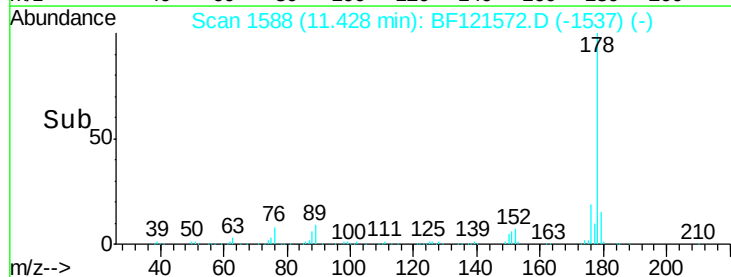
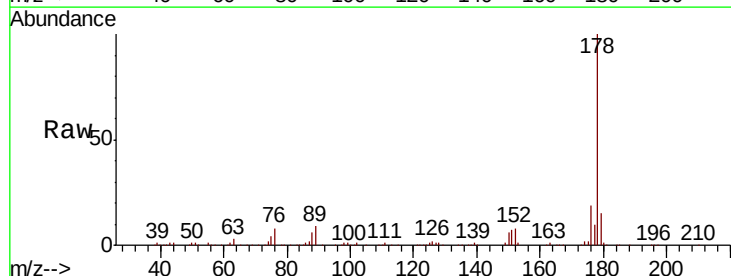
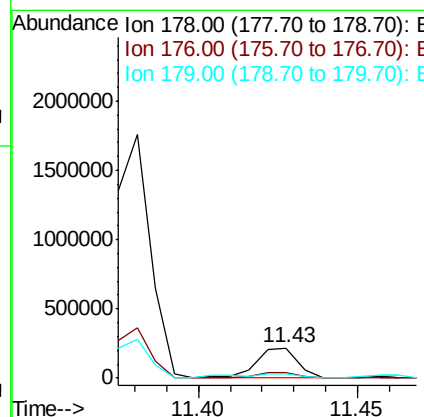
Manual Integrations
APPROVED

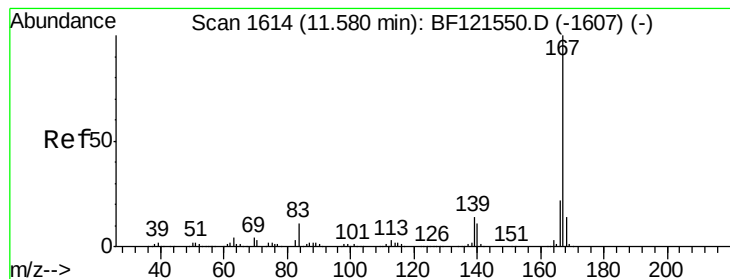
mohammad
9/16/2020 10:14:34 AM



#72
Anthracene
Concen: 4.230 ng
RT: 11.43 min Scan# 1588
Delta R.T. 0.00 min
Lab File: BF121572.D
Acq: 15 Sep 2020 12:01

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.7	23.5
179	15.5	12.8	19.2





#73

Carbazole

Concen: 3.419 ng

RT: 11.58 min Scan# 1614

Delta R.T. 0.00 min

Lab File: BF121572.D

Acq: 15 Sep 2020 12:01

Instrument :

BNA_F

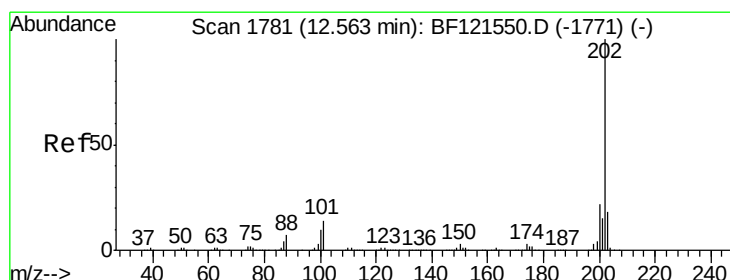
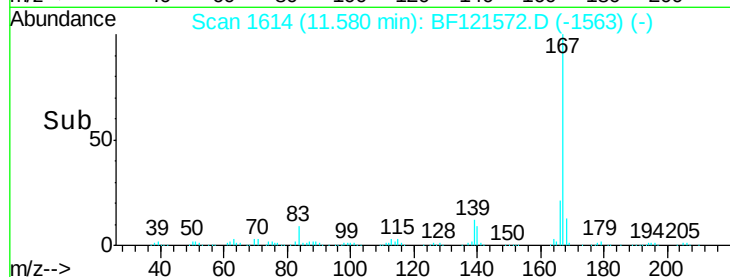
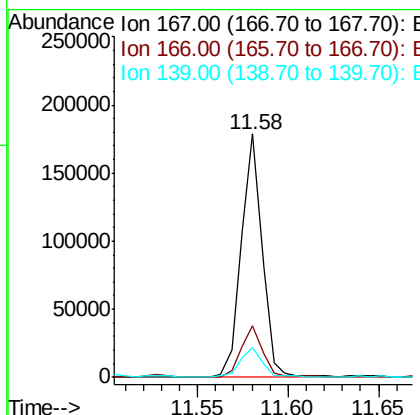
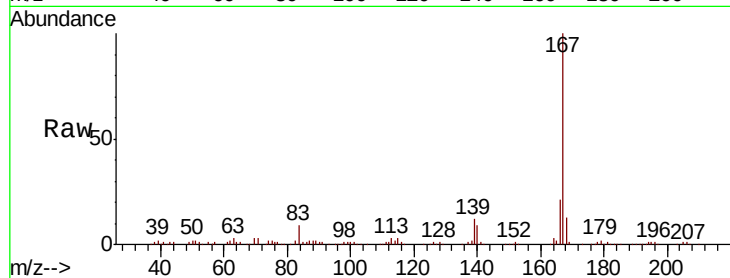
ClientSampleId :

B19-4-6DL

Tot Ion:	167	Resp:	144202
Ion Ratio	Lower	Upper	
167	100		
166	21.4	17.9	26.9
139	12.2	11.2	16.8

Manual Integrations
APPROVED

mohammad
9/16/2020 10:14:34 AM



#75

Fluoranthene

Concen: 37.735 ng

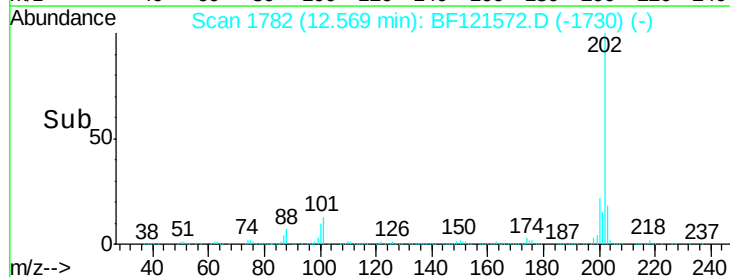
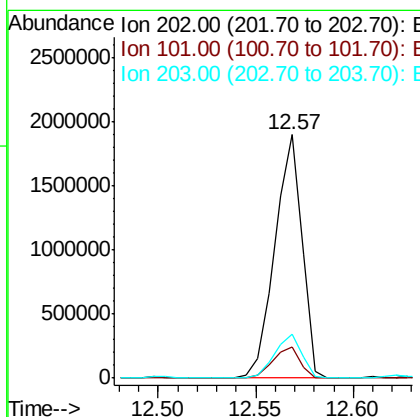
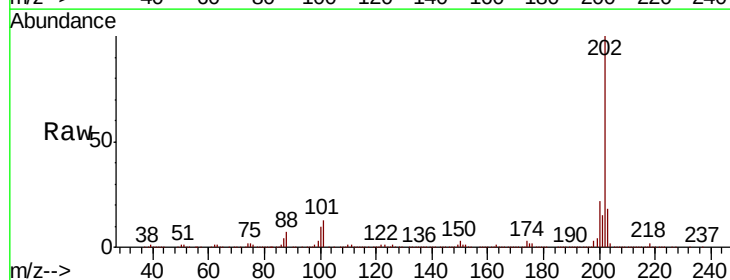
RT: 12.57 min Scan# 1782

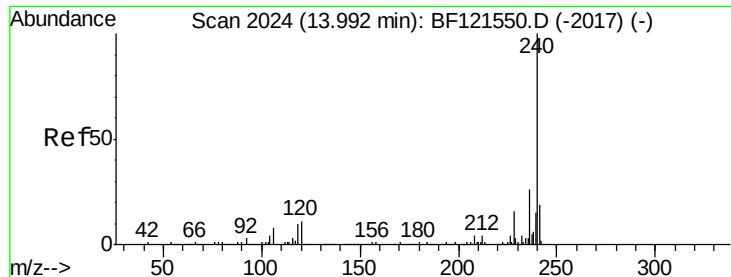
Delta R.T. 0.01 min

Lab File: BF121572.D

Acq: 15 Sep 2020 12:01

Tgt Ion:	202	Resp:	1824499
Ion Ratio	Lower	Upper	
202	100		
101	13.0	0.0	34.0
203	18.2	0.0	38.2





#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.99 min Scan# 2024

Delta R.T. 0.00 min

Lab File: BF121572.D

Acq: 15 Sep 2020 12:01

Instrument :

BNA_F

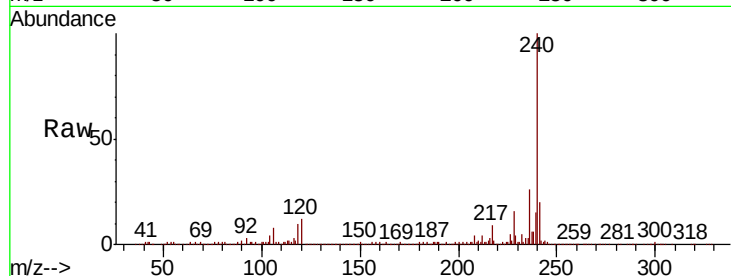
ClientSampleId :

B19-4-6DL

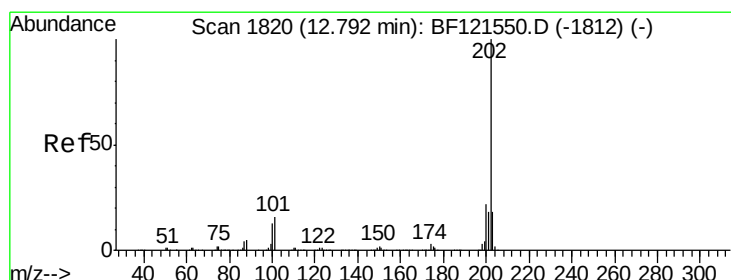
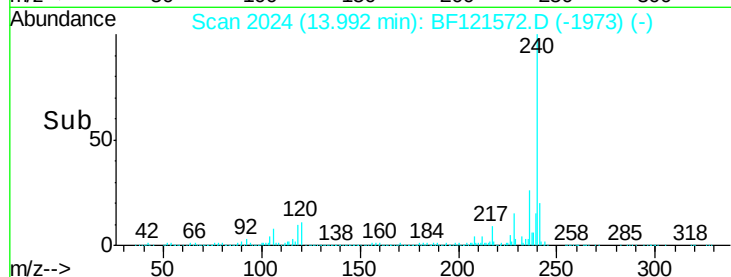
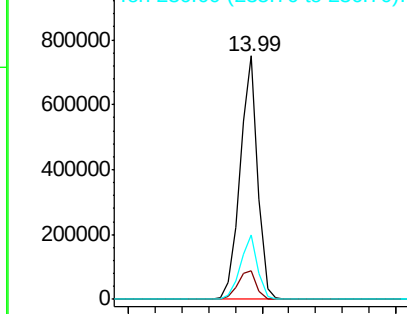
Tot Ion:	240	Resp:	681190
Ion Ratio	Lower	Upper	
240	100		
120	11.5	9.2	13.8
236	26.3	20.5	30.7

Manual Integrations
APPROVED

mohammad
9/16/2020 10:14:34 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: 35.565 ng

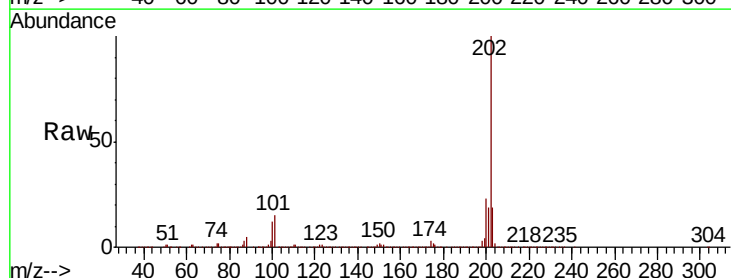
RT: 12.80 min Scan# 1821

Delta R.T. 0.01 min

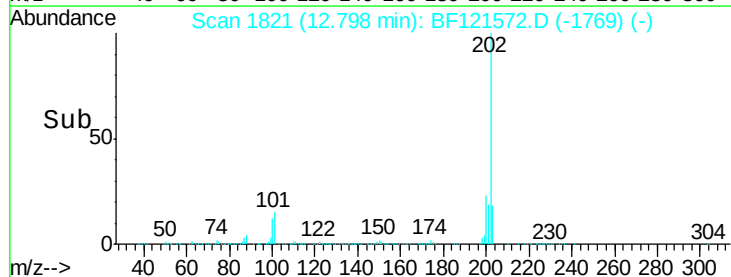
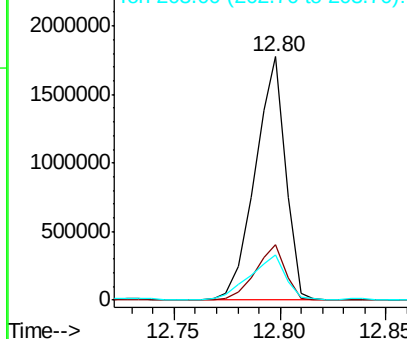
Lab File: BF121572.D

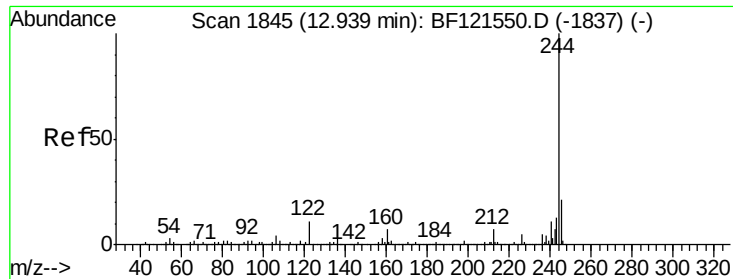
Acq: 15 Sep 2020 12:01

Tgt Ion:	202	Resp:	1770067
Ion Ratio	Lower	Upper	
202	100		
200	22.6	17.8	26.8
203	18.5	14.6	22.0



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





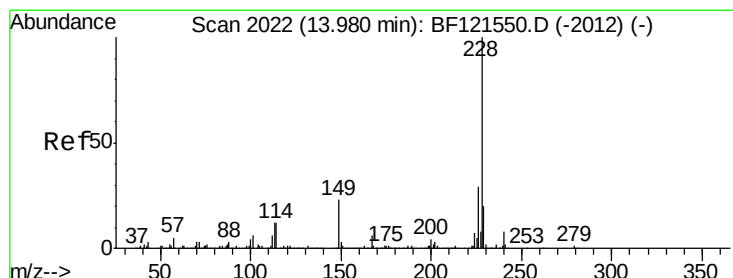
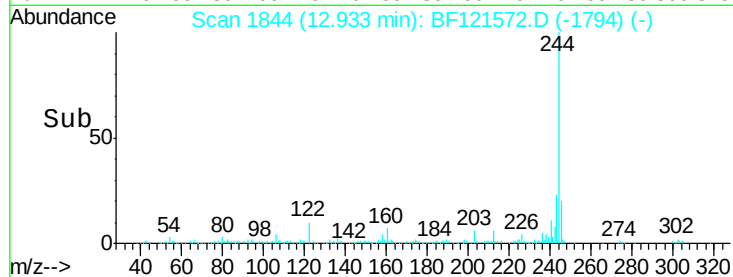
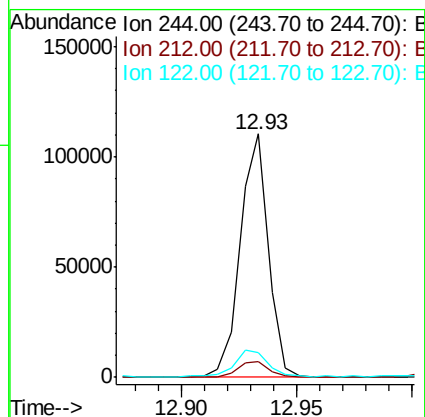
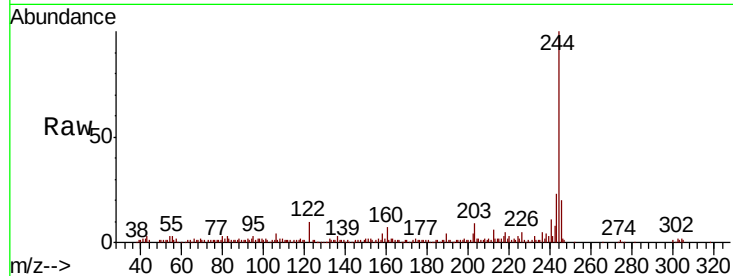
#79
 Terphenyl-d14
 Concen: 2.793 ng
 RT: 12.93 min Scan# 1844
 Delta R.T. -0.01 min
 Lab File: BF121572.D
 Acq: 15 Sep 2020 12:01

Instrument :
 BNA_F
 ClientSampled :
 B19-4-6DL

Tot Ion:	244	Resp:	93919
Ion Ratio	Lower	Upper	
244	100		
212	6.5	5.7	8.5
122	10.4	8.7	13.1

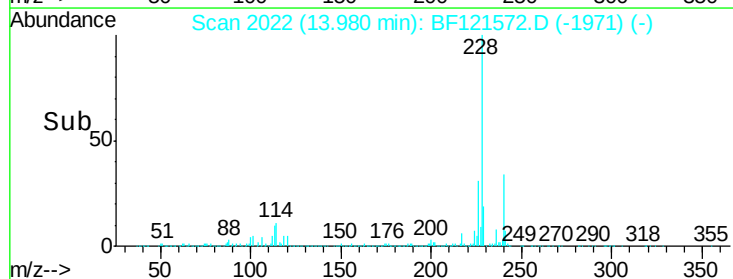
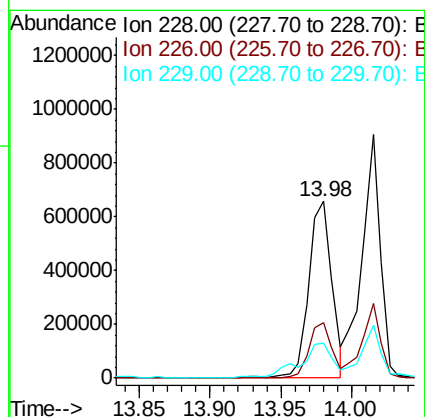
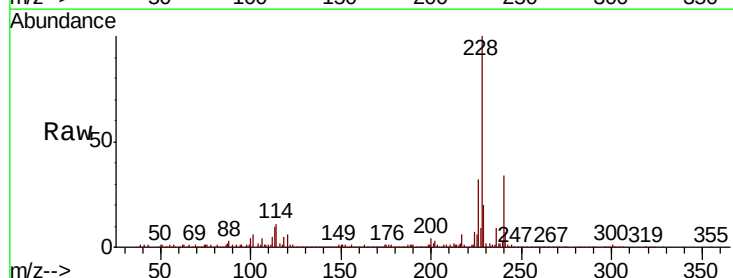
Manual Integrations
 APPROVED

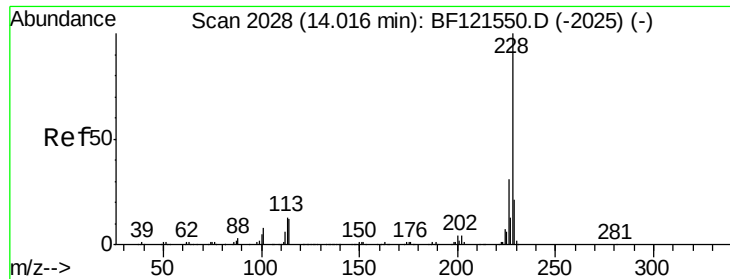
mohammad
 9/16/2020 10:14:34 AM



#81
 Benzo(a)anthracene
 Concen: 17.263 ng
 RT: 13.98 min Scan# 2022
 Delta R.T. 0.00 min
 Lab File: BF121572.D
 Acq: 15 Sep 2020 12:01

Tgt Ion:	228	Resp:	743970
Ion Ratio	Lower	Upper	
228	100		
226	31.6	22.9	34.3
229	20.2	16.3	24.5





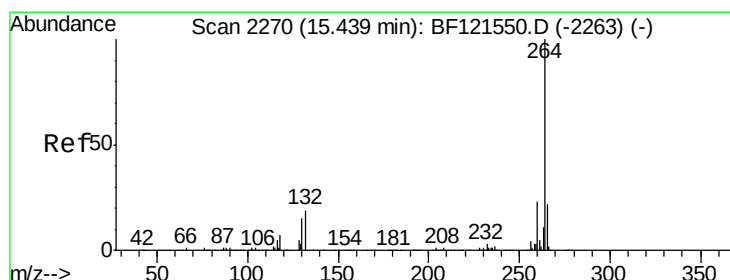
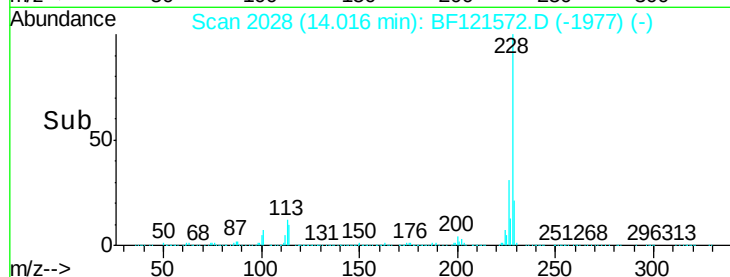
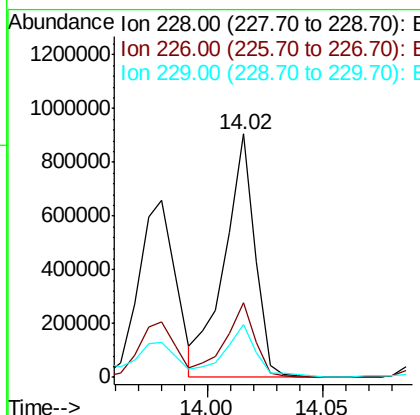
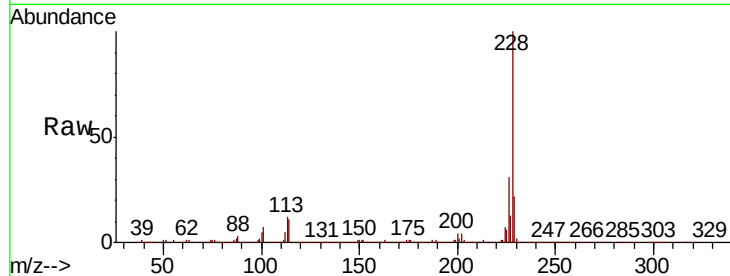
#83
Chrysene
Concen: 19.052 ng
RT: 14.02 min Scan# 2028
Delta R.T. 0.00 min
Lab File: BF121572.D
Acq: 15 Sep 2020 12:01

Instrument :
BNA_F
ClientSampleId :
B19-4-6DL

Tot Ion	Ratio	Lower	Upper
228	100		
226	30.9	25.1	37.7
229	21.8	16.6	25.0

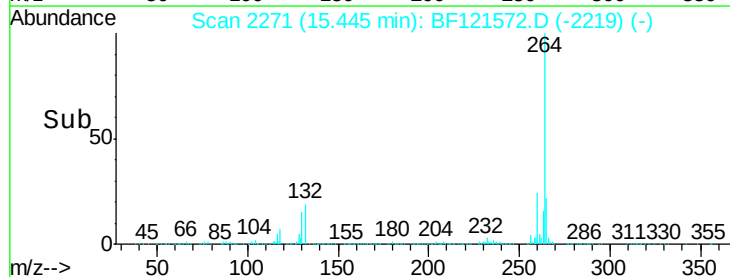
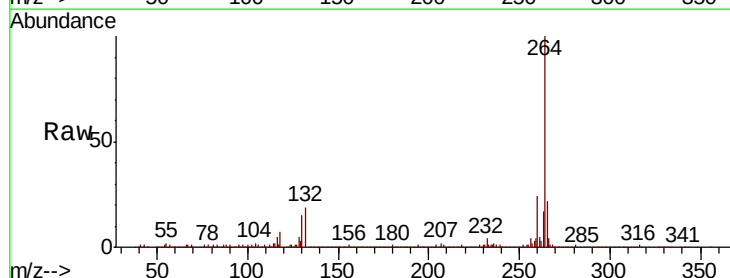
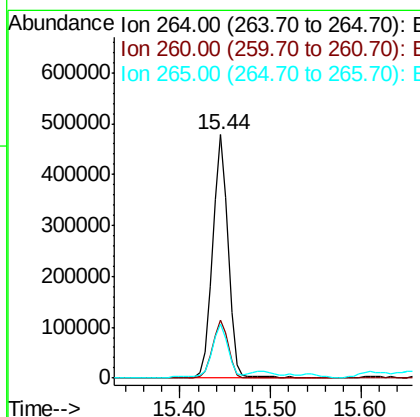
Manual Integrations
APPROVED

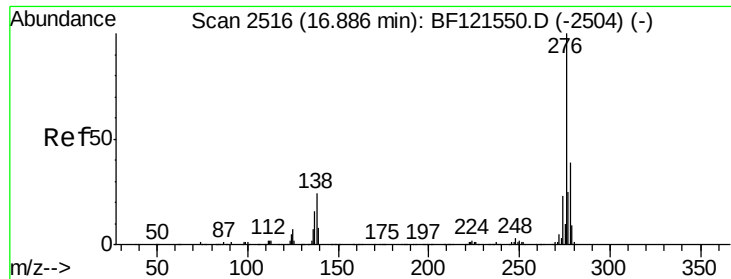
mohammad
9/16/2020 10:14:34 AM



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.44 min Scan# 2271
Delta R.T. 0.01 min
Lab File: BF121572.D
Acq: 15 Sep 2020 12:01

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.9	18.8	28.2
265	22.1	17.8	26.6





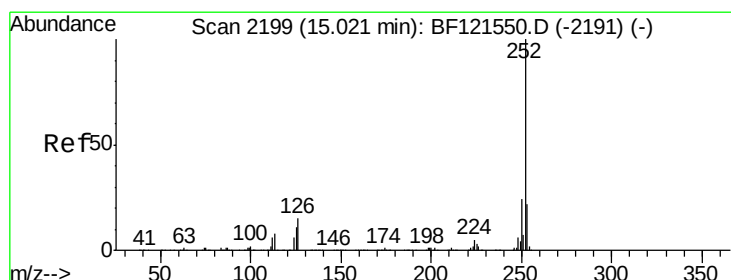
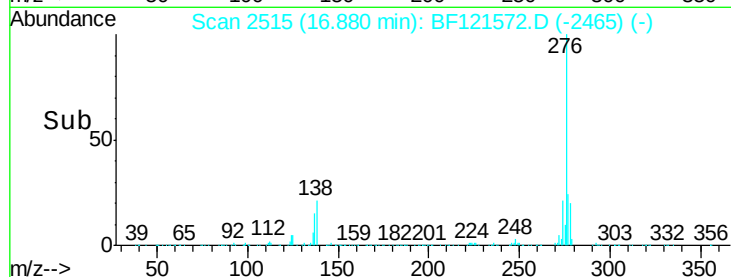
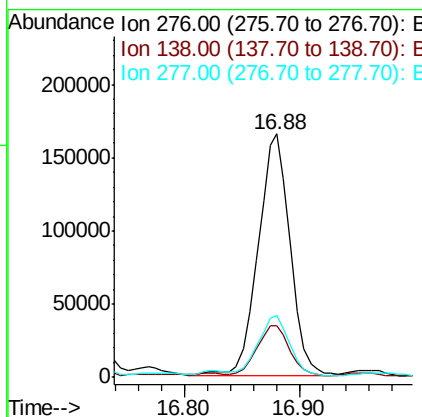
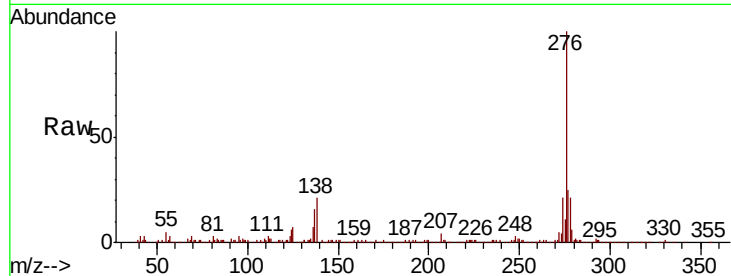
#87
 Indeno(1,2,3-cd)pyrene
 Concen: 8.622 ng
 RT: 16.88 min Scan# 2515
 Delta R.T. -0.01 min
 Lab File: BF121572.D
 Acq: 15 Sep 2020 12:01

Instrument :
 BNA_F
 ClientSampleId :
 B19-4-6DL

Tot Ion:	276	Resp:	318349
Ion Ratio	Lower	Upper	
276	100		
138	21.3	20.6	31.0
277	24.4	20.2	30.4

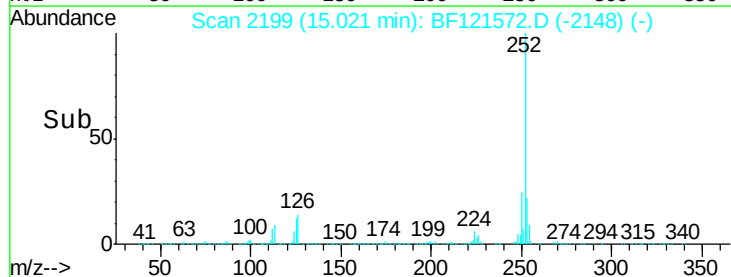
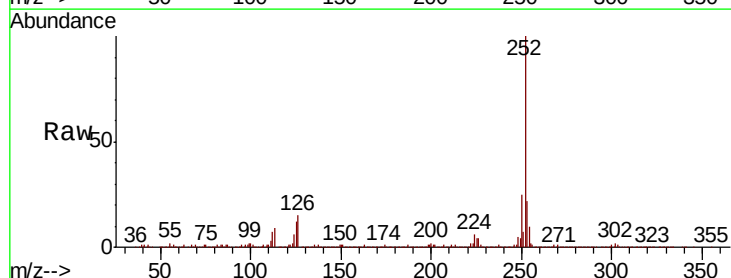
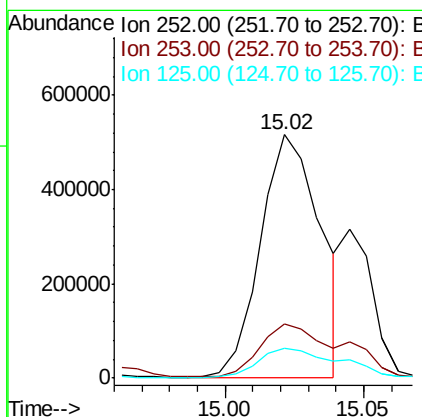
Manual Integrations
 APPROVED

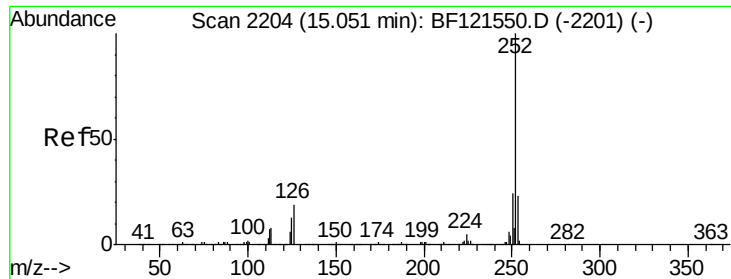
mohammad
 9/16/2020 10:14:34 AM



#88
 Benzo(b)fluoranthene
 Concen: 20.761 ng m
 RT: 15.02 min Scan# 2199
 Delta R.T. 0.00 min
 Lab File: BF121572.D
 Acq: 15 Sep 2020 12:01

Tgt Ion:	252	Resp:	786847
Ion Ratio	Lower	Upper	
252	100		
253	22.5	17.9	26.9
125	12.0	9.2	13.8





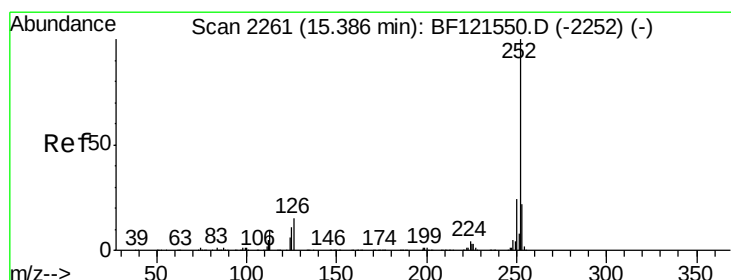
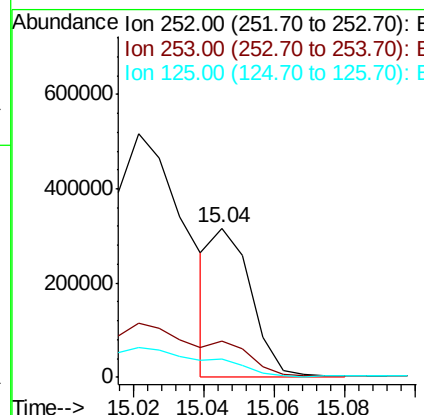
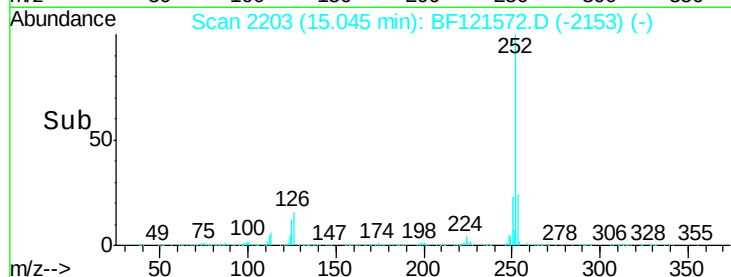
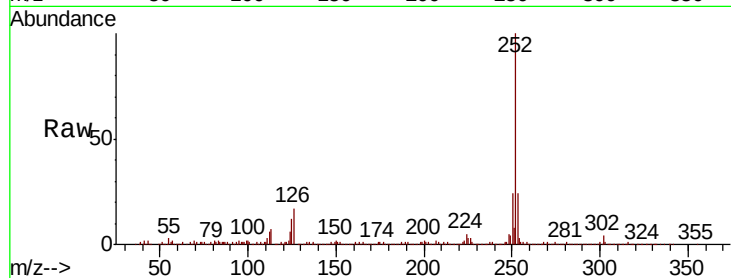
#89
Benzo(k)fluoranthene
Concen: 6.982 ng/mL
RT: 15.04 min Scan# 2203
Delta R.T. -0.01 min
Lab File: BF121572.D
Acq: 15 Sep 2020 12:01

Instrument :
BNA_F
ClientSampleId :
B19-4-6DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.5	17.8	26.8
125	12.4	9.8	14.6

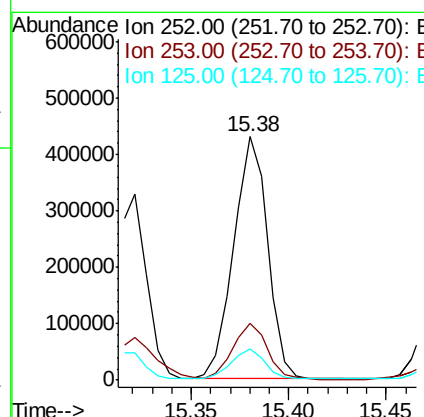
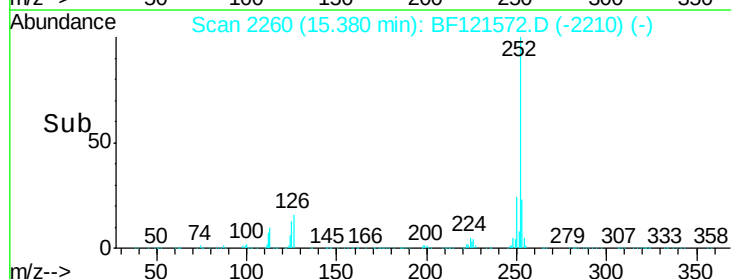
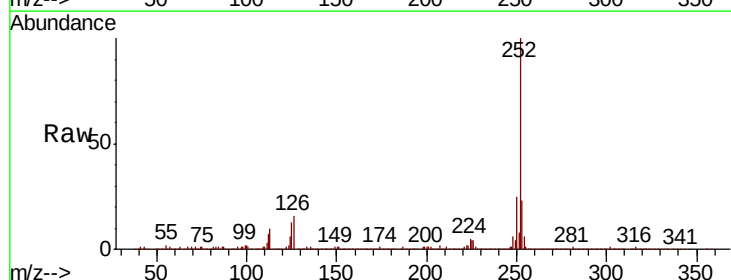
Manual Integrations
APPROVED

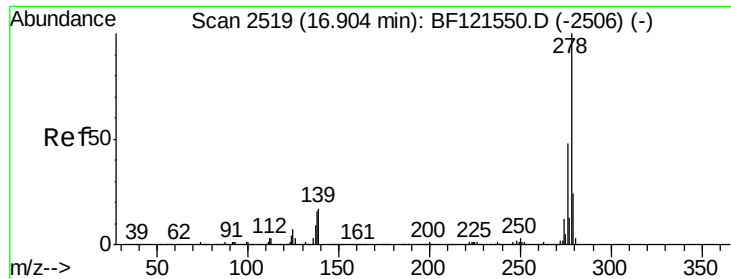
mohammad
9/16/2020 10:14:34 AM



#90
Benzo(a)pyrene
Concen: 16.132 ng/mL
RT: 15.38 min Scan# 2260
Delta R.T. -0.01 min
Lab File: BF121572.D
Acq: 15 Sep 2020 12:01

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.3	17.5	26.3
125	13.0	9.0	13.4





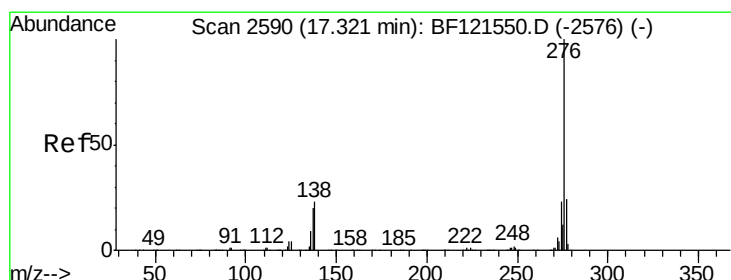
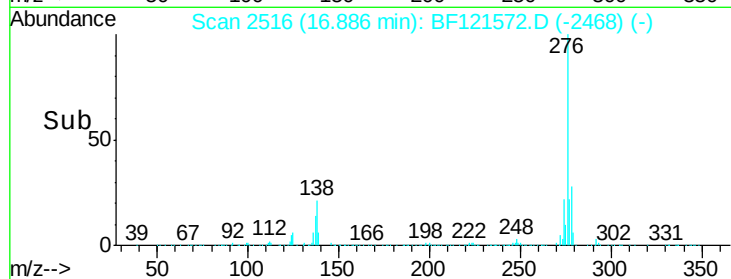
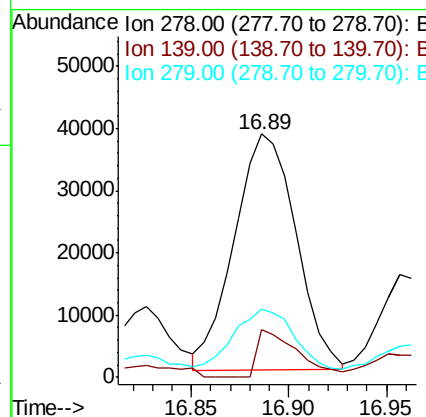
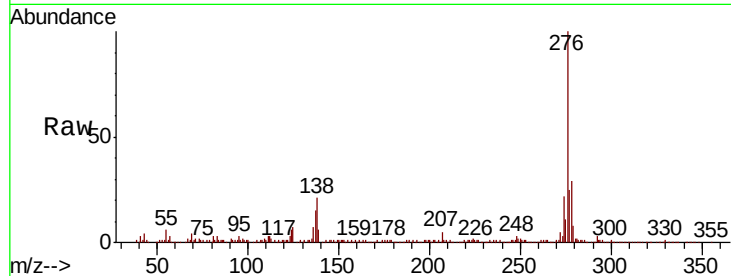
#91
Dibenzo(a,h)anthracene
Concen: 2.709 ng
RT: 16.89 min Scan# 2516
Delta R.T. -0.02 min
Lab File: BF121572.D
Acq: 15 Sep 2020 12:01

Instrument :
BNA_F
ClientSampled :
B19-4-6DL

Tot Ion	Ratio	Lower	Upper
278	100		
139	19.6	13.9	20.9
279	27.9	19.2	28.8

Manual Integrations
APPROVED

mohammad
9/16/2020 10:14:34 AM



#92
Benzo(g,h,i)perylene
Concen: 10.121 ng
RT: 17.32 min Scan# 2589
Delta R.T. -0.01 min
Lab File: BF121572.D
Acq: 15 Sep 2020 12:01

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.3	19.4	29.0
138	22.3	18.7	28.1

