

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF010820\
 Data File : BF118512.D
 Acq On : 8 Jan 2020 21:41
 Operator : JU
 Sample : L1013-01 2X
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleID :
 PL-01-010720

Manual Integrations
 APPROVED

mohammad
 1/9/2020 12:11:05 PM

Quant Time: Jan 09 03:55:57 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF010820.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jan 08 16:06:11 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.83	152	55219	20.00	ng	0.00
21) Naphthalene-d8	8.12	136	240553	20.00	ng	0.00
39) Acenaphthene-d10	9.87	164	130990	20.00	ng	-0.01
64) Phenanthrene-d10	11.37	188	231646	20.00	ng	-0.01
76) Chrysene-d12	14.03	240	184530	20.00	ng	0.00
87) Perylene-d12	15.52	264	188746	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.44	112	115568	34.55	ng	0.00
7) Phenol-d6	6.46	99	142238	35.57	ng	-0.01
23) Nitrobenzene-d5	7.39	82	92660	20.23	ng	-0.01
42) 2,4,6-Tribromophenol	10.67	330	43082	27.87	ng	-0.01
45) 2-Fluorobiphenyl	9.19	172	193030	21.13	ng	-0.01
79) Terphenyl-d14	12.96	244	213482	18.33	ng	0.00

Target Compounds				Qvalue		
31) Naphthalene	8.13	128	27808	2.210	ng	97
49) Acenaphthylene	9.74	152	158422	12.564	ng	97
52) Acenaphthene	9.91	154	21423	2.782	ng	96
55) Dibenzofuran	10.08	168	32017	2.768	ng	# 95
58) Fluorene	10.43	166	58878	6.334	ng	97
71) Phenanthrene	11.40	178	482250	37.163	ng	100
72) Anthracene	11.45	178	153593	11.898	ng	98
73) Carbazole	11.60	167	39625	3.543	ng	96
75) Fluoranthene	12.60	202	922886	69.972	ng	99
78) Pyrene	12.83	202	880767	58.013	ng	99
81) Benzo(a)anthracene	14.02	228	670656	51.924	ng	94
83) Chrysene	14.06	228	588188	46.863	ng	97
86) Indeno(1,2,3-cd)pyrene	17.03	276	294753	29.170	ng	94
88) Benzo(b)fluoranthene	15.09	252	692114m	50.719	ng	
89) Benzo(k)fluoranthene	15.12	252	259866m	19.951	ng	
90) Benzo(a)pyrene	15.46	252	518856	46.398	ng	98
91) Dibenzo(a,h)anthracene	17.03	278	86445m	8.244	ng	
92) Benzo(g,h,i)perylene	17.48	276	259023	26.071	ng	97

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

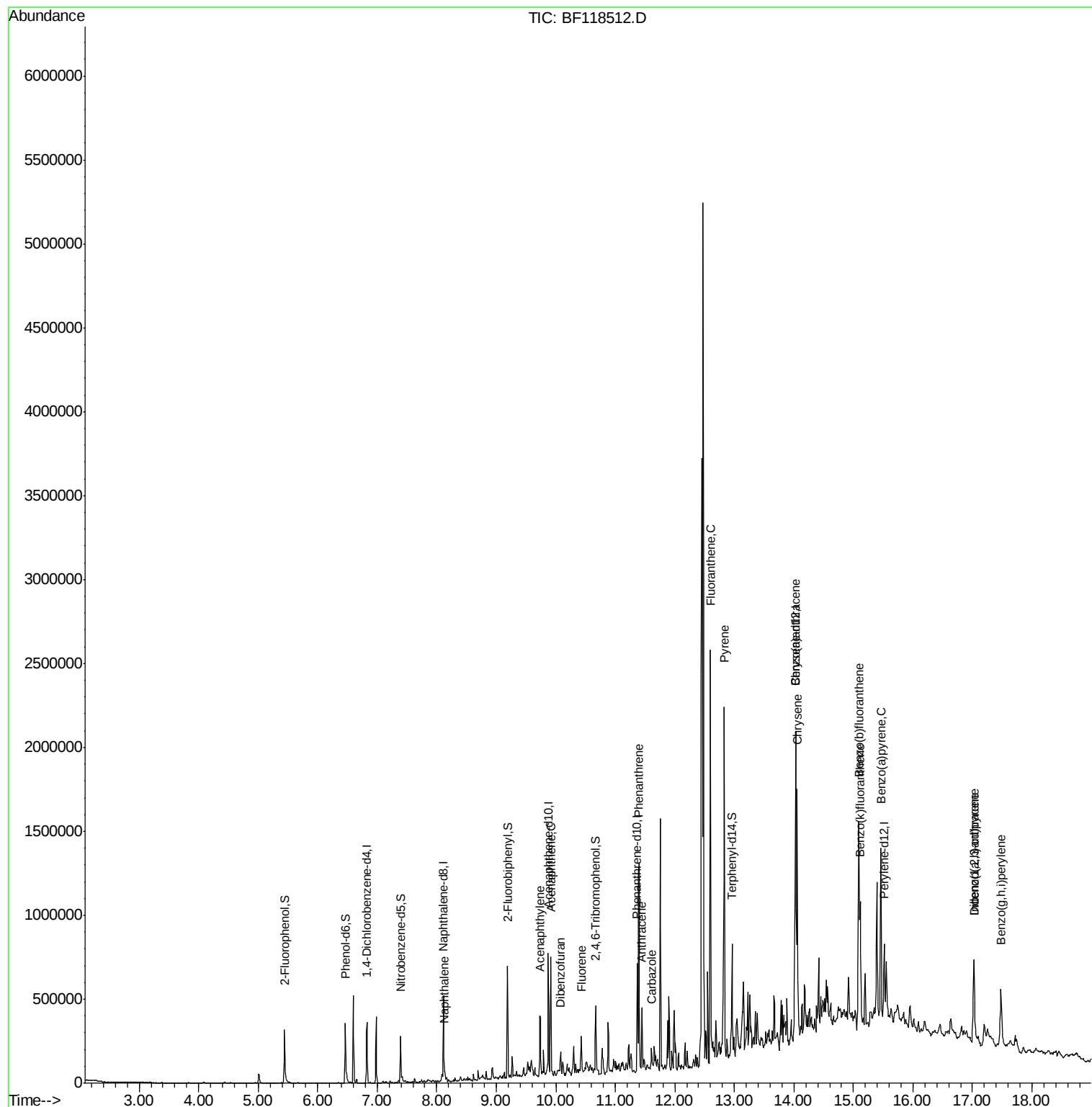
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF010820\
Data File : BF118512.D
Acq On : 8 Jan 2020 21:41
Operator : JU
Sample : L1013-01 2X
Misc :
ALS Vial : 19 Sample Multiplier: 1

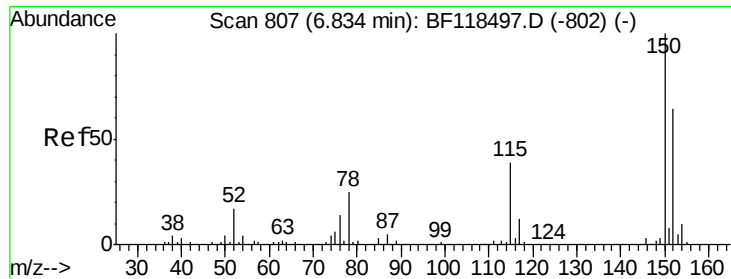
Instrument :
BNA_F
ClientSampleId :
PL-01-010720

Manual Integrations
APPROVED

mohammad
1/9/2020 12:11:05 PM

Quant Time: Jan 09 03:55:57 2020
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF010820.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 08 16:06:11 2020
Response via : Initial Calibration





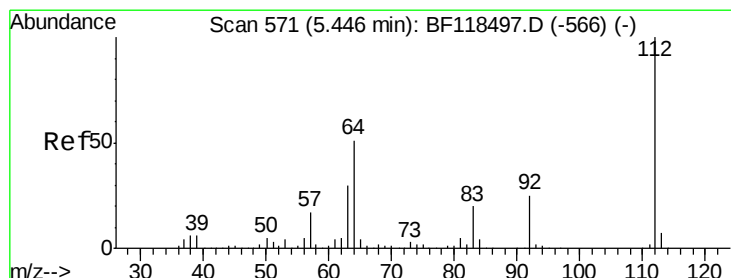
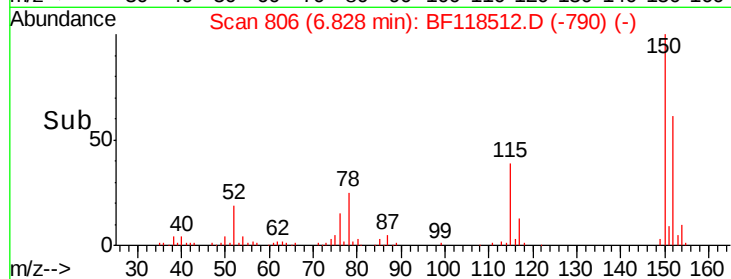
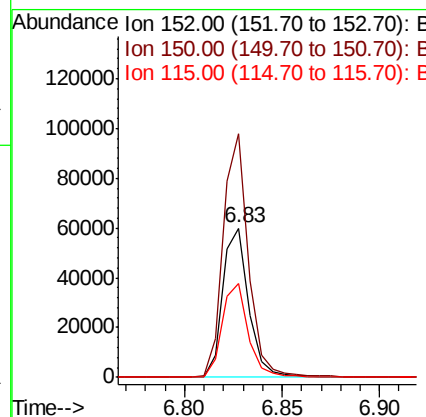
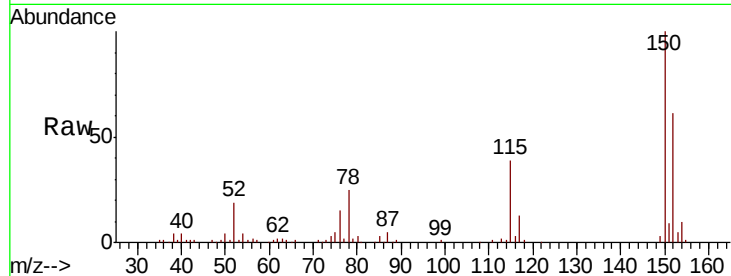
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.83 min Scan# 806
 Delta R.T. -0.01 min
 Lab File: BF118512.D
 Acq: 8 Jan 2020 21:41

Instrument :
 BNA_F
 ClientSampleId :
 PL-01-010720

Tot Ion	Ratio	Lower	Upper
152	100		
150	163.4	124.7	187.1
115	63.3	49.0	73.6

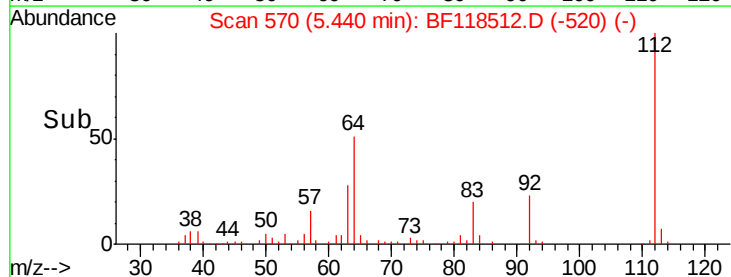
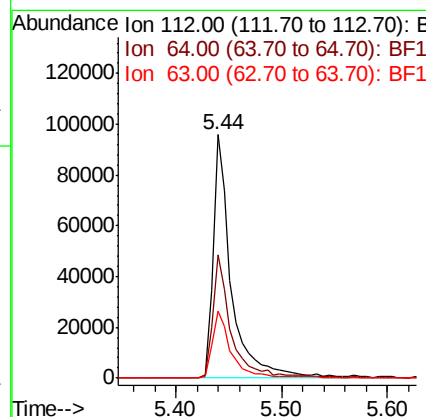
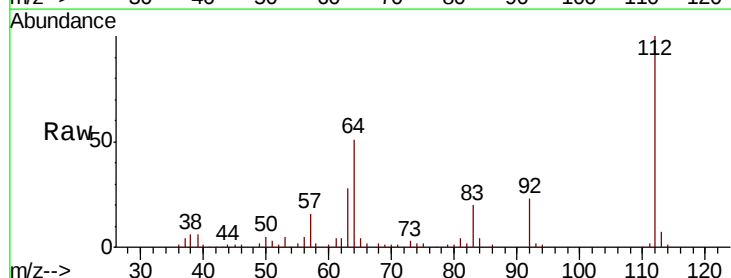
Manual Integrations
 APPROVED

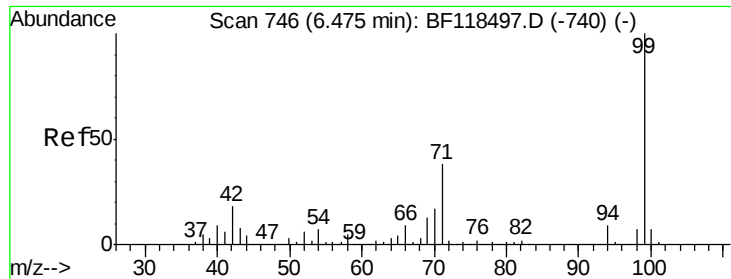
mohammad
 1/9/2020 12:11:05 PM



#5
 2-Fluorophenol
 Concen: 34.549 ng
 RT: 5.44 min Scan# 570
 Delta R.T. -0.01 min
 Lab File: BF118512.D
 Acq: 8 Jan 2020 21:41

Tgt Ion	Ratio	Lower	Upper
112	100		
64	50.6	41.1	61.7
63	27.7	24.1	36.1





#7

Phenol-d6

Concen: 35.566 ng

RT: 6.46 min Scan# 744

Delta R.T. -0.01 min

Lab File: BF118512.D

Acq: 8 Jan 2020 21:41

Instrument :

BNA_F

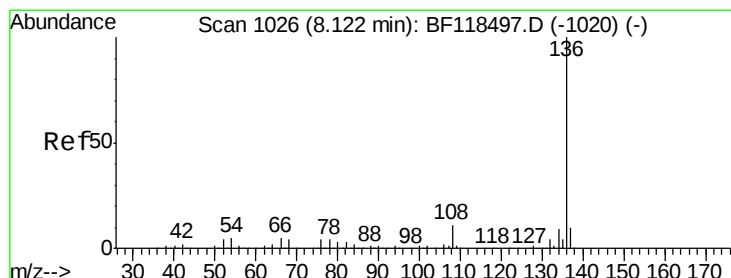
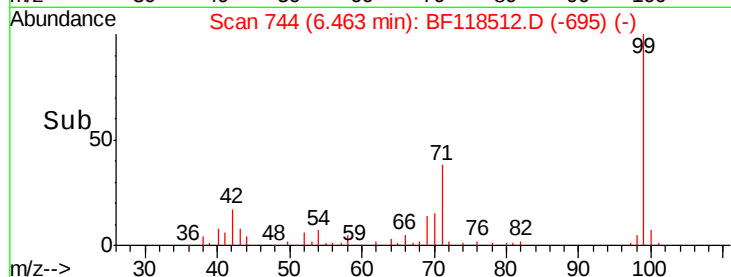
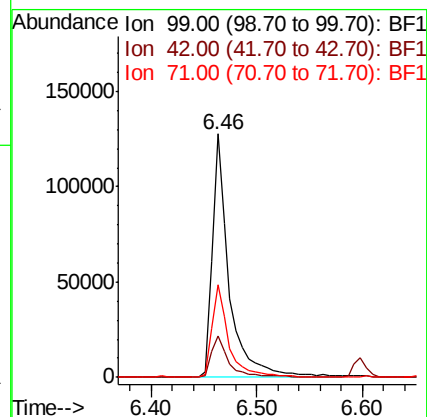
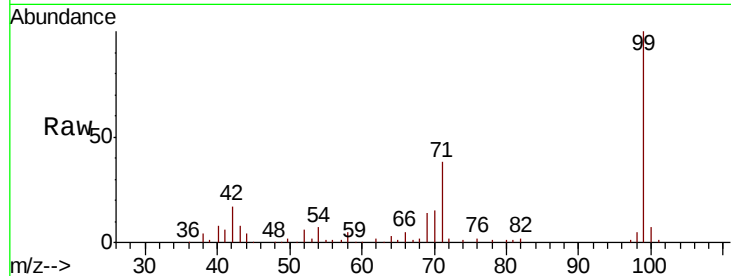
ClientSampleId :

PL-01-010720

Tot Ion:	99	Resp:	142238
Ion	Ratio	Lower	Upper
99	100		
42	16.8	14.5	21.7
71	38.2	30.6	45.8

Manual Integrations
APPROVED

mohammad
1/9/2020 12:11:05 PM



#21

Naphthalene-d8

Concen: 20.000 ng

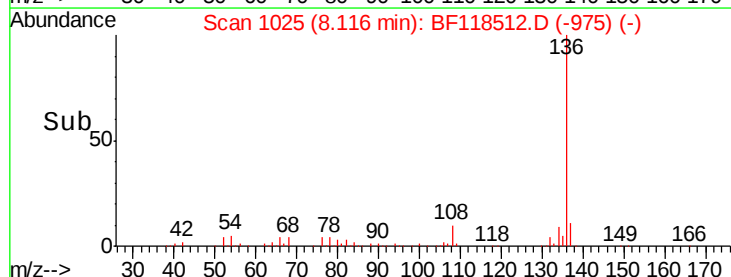
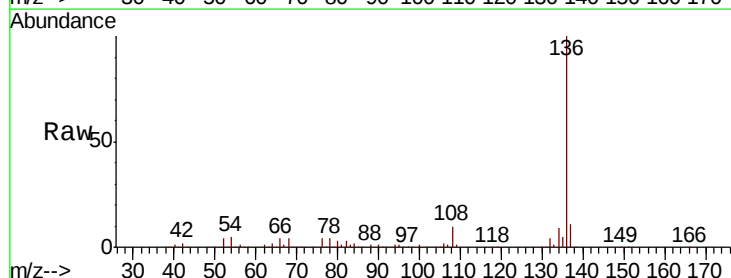
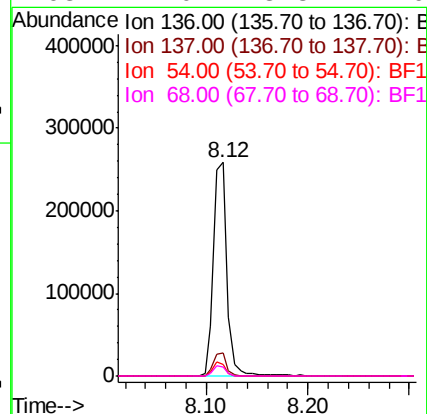
RT: 8.12 min Scan# 1025

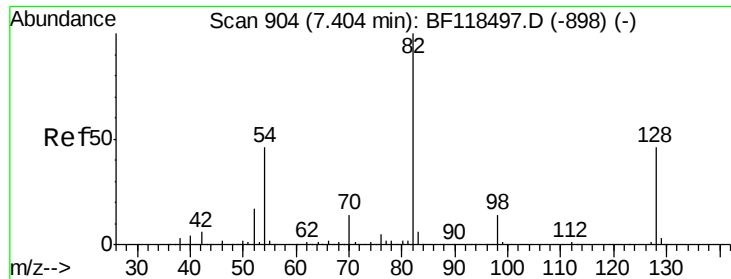
Delta R.T. -0.01 min

Lab File: BF118512.D

Acq: 8 Jan 2020 21:41

Tgt Ion:	136	Resp:	240553
Ion	Ratio	Lower	Upper
136	100		
137	10.6	8.3	12.5
54	5.3	4.2	6.2
68	4.0	3.3	4.9





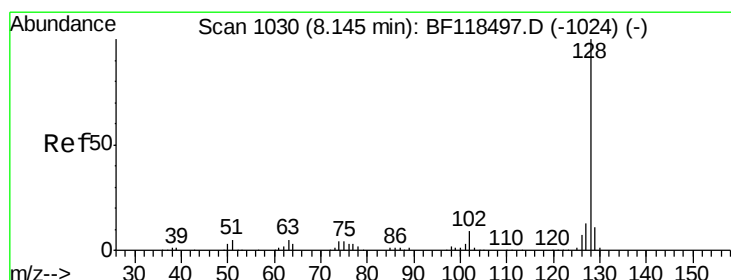
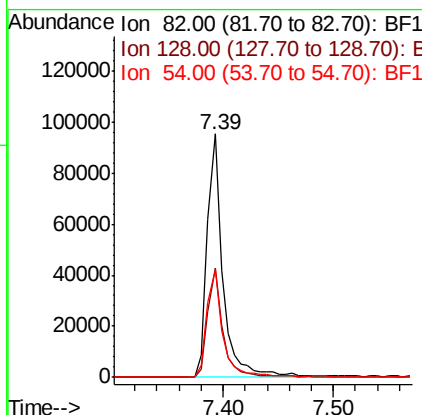
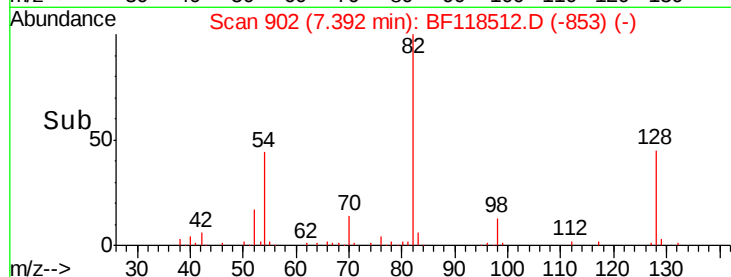
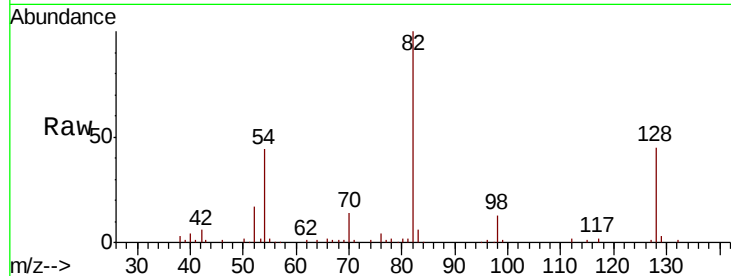
#23
 Nitrobenzene-d5
 Concen: 20.235 ng
 RT: 7.39 min Scan# 902
 Delta R.T. -0.01 min
 Lab File: BF118512.D
 Acq: 8 Jan 2020 21:41

Instrument :
 BNA_F
 ClientSampleId :
 PL-01-010720

Tot Ion	Ratio	Lower	Upper
82	100		
128	44.6	36.6	54.8
54	44.2	37.0	55.6

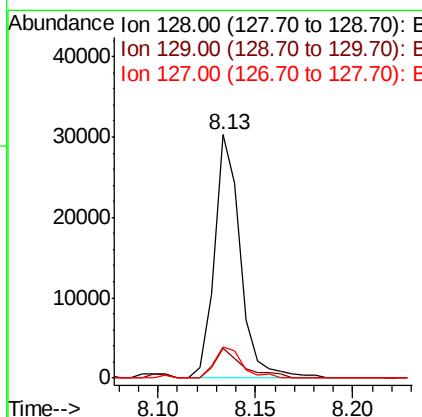
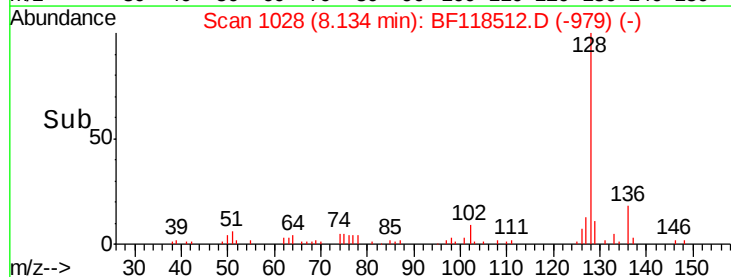
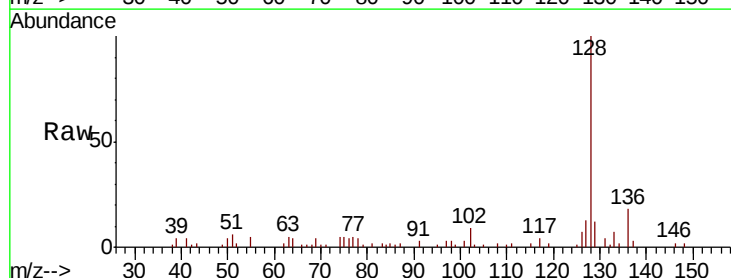
Manual Integrations
 APPROVED

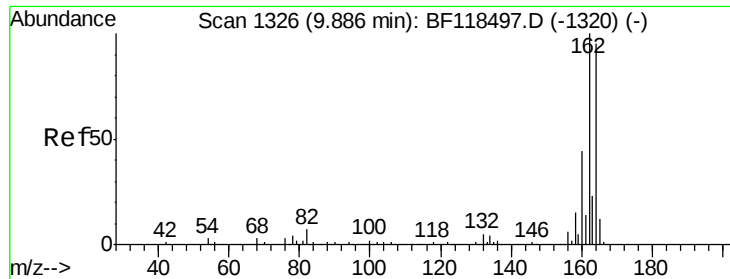
mohammad
 1/9/2020 12:11:05 PM



#31
 Naphthalene
 Concen: 2.210 ng
 RT: 8.13 min Scan# 1028
 Delta R.T. -0.01 min
 Lab File: BF118512.D
 Acq: 8 Jan 2020 21:41

Tgt Ion	Ratio	Lower	Upper
128	100		
129	12.2	8.6	12.8
127	12.6	10.7	16.1





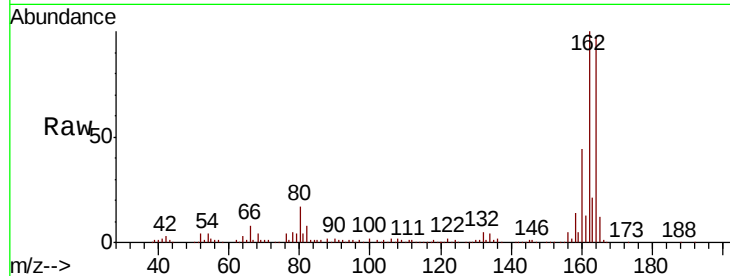
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.87 min Scan# 1324
Delta R.T. -0.01 min
Lab File: BF118512.D
Acq: 8 Jan 2020 21:41

Instrument :
BNA_F
ClientSampleId :
PL-01-010720

Tot Ion	Ratio	Resp	Lower	Upper
164	100			
162	102.8	84.2	126.4	
160	45.4	36.8	55.2	

Manual Integrations
APPROVED

mohammad
1/9/2020 12:11:05 PM

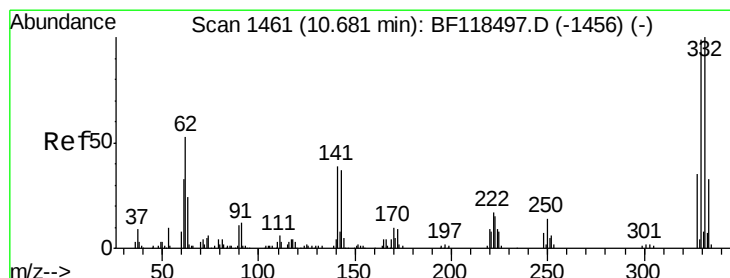
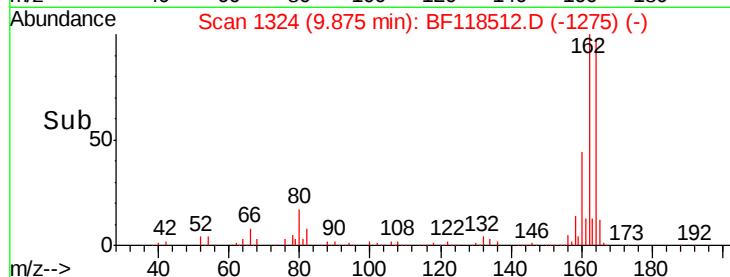
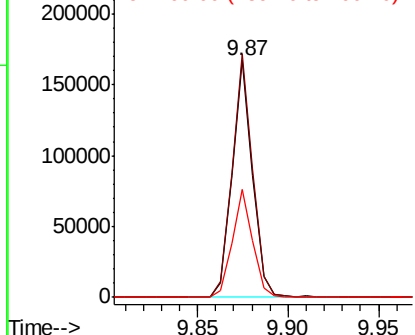


Abundance

Ion 164.00 (163.70 to 164.70): E

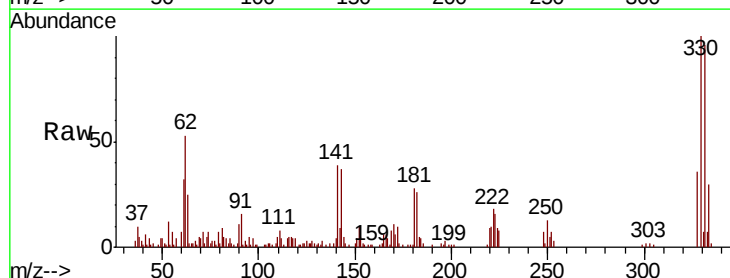
Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#42
2,4,6-Tribromophenol
Concen: 27.873 ng
RT: 10.67 min Scan# 1459
Delta R.T. -0.01 min
Lab File: BF118512.D
Acq: 8 Jan 2020 21:41

Tgt Ion	Ratio	Resp	Lower	Upper
330	100			
332	94.2	77.9	116.9	
141	36.7	28.6	43.0	

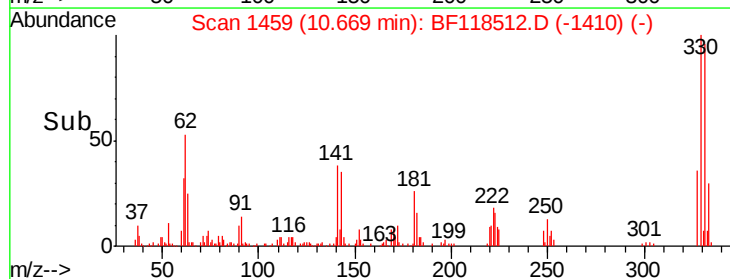
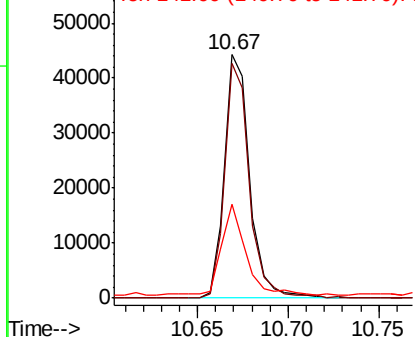


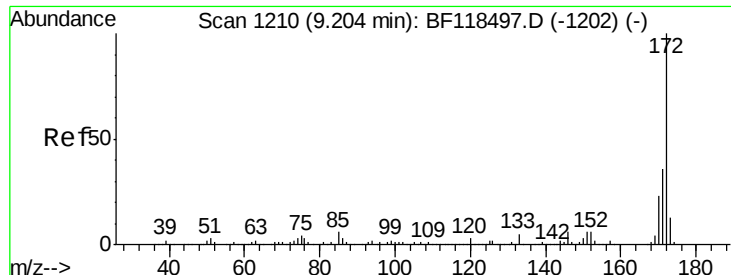
Abundance

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





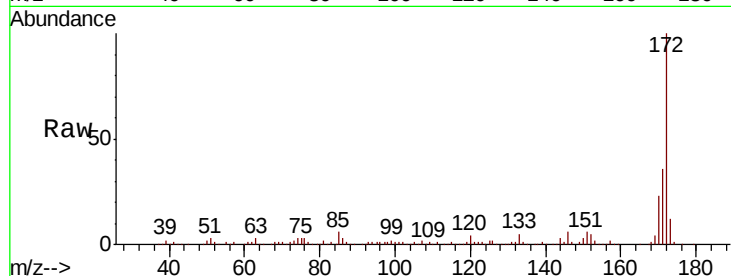
#45
2-Fluorobiphenyl
Concen: 21.135 ng
RT: 9.19 min Scan# 1208
Delta R.T. -0.01 min
Lab File: BF118512.D
Acq: 8 Jan 2020 21:41

Instrument :
BNA_F
ClientSampleId :
PL-01-010720

Tot Ion	Ratio	Lower	Upper
172	100		
171	36.3	28.6	42.8
170	22.9	18.6	27.8

Manual Integrations
APPROVED

mohammad
1/9/2020 12:11:05 PM

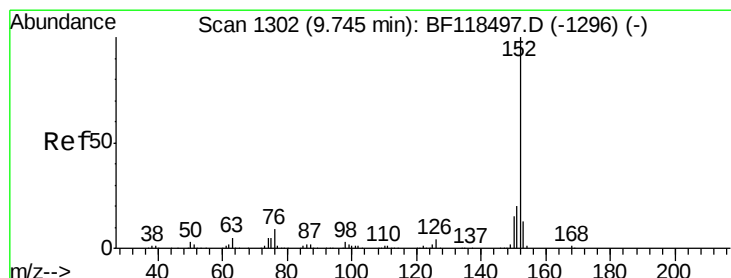
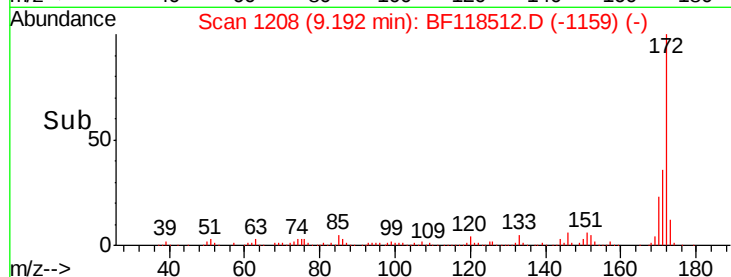
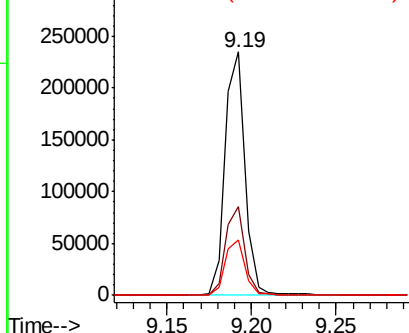


Abundance

Ion 172.00 (171.70 to 172.70): E

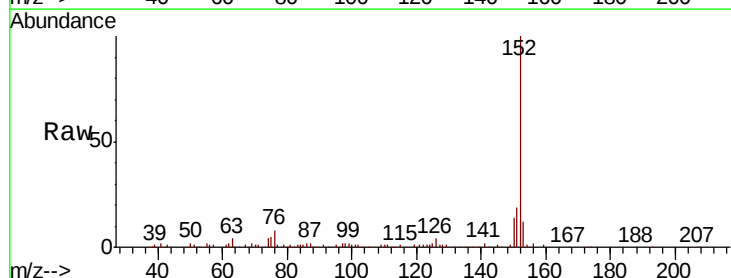
Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#49
Acenaphthylene
Concen: 12.564 ng
RT: 9.74 min Scan# 1301
Delta R.T. -0.01 min
Lab File: BF118512.D
Acq: 8 Jan 2020 21:41

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.5	16.3	24.5
153	12.0	10.6	16.0

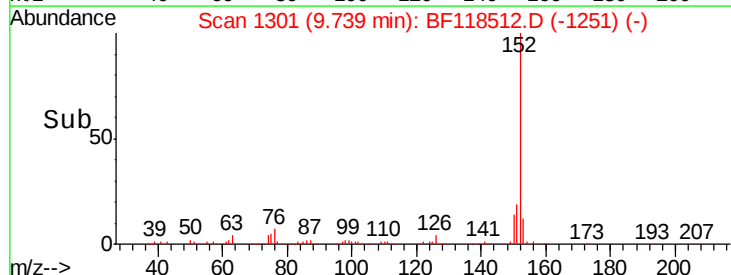
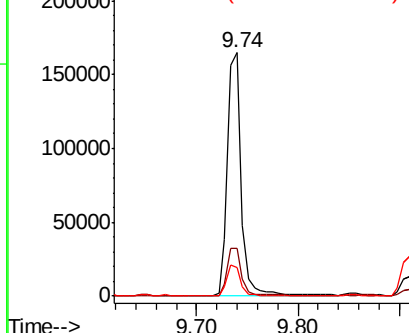


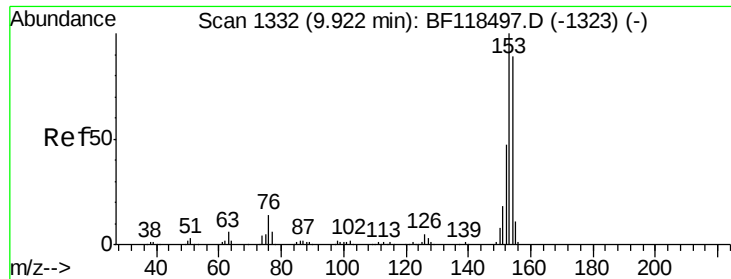
Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#52

Acenaphthene

Concen: 2.782 ng

RT: 9.91 min Scan# 1330

Delta R.T. -0.01 min

Lab File: BF118512.D

Acq: 8 Jan 2020 21:41

Instrument :

BNA_F

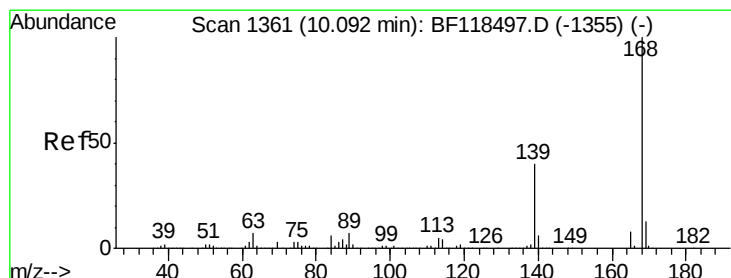
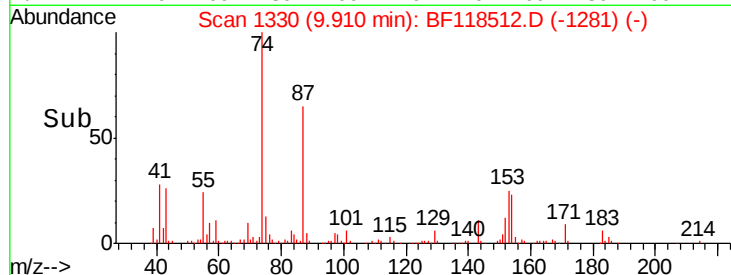
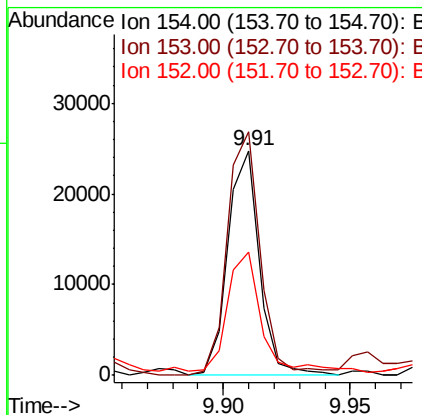
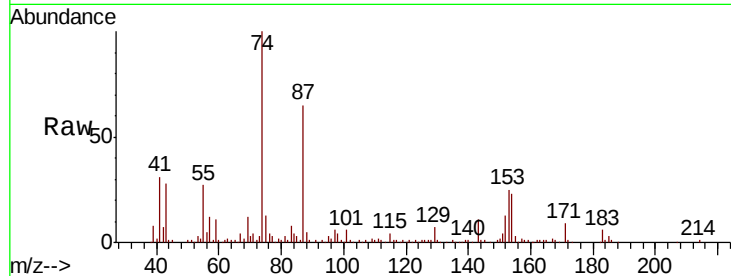
ClientSampleId :

PL-01-010720

Tot Ion:	154	Resp:	21423
Ion	Ratio	Lower	Upper
154	100		
153	108.4	89.7	134.5
152	55.1	41.9	62.9

Manual Integrations
APPROVED

mohammad
1/9/2020 12:11:05 PM



#55

Dibenzofuran

Concen: 2.768 ng

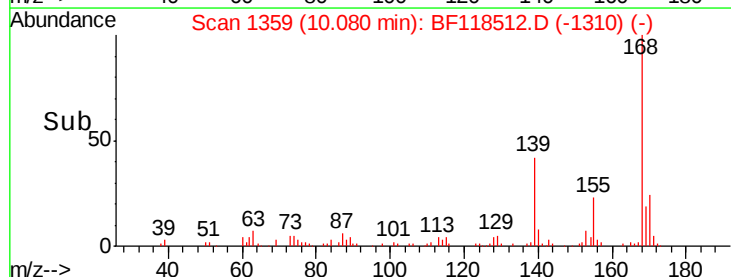
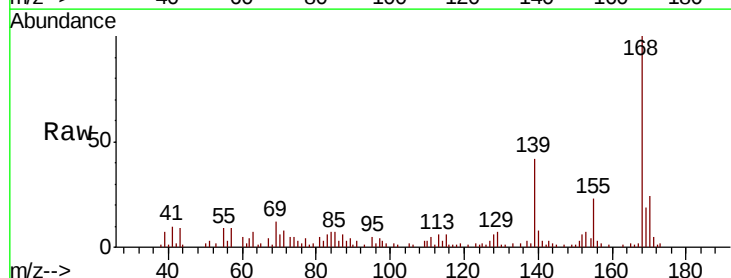
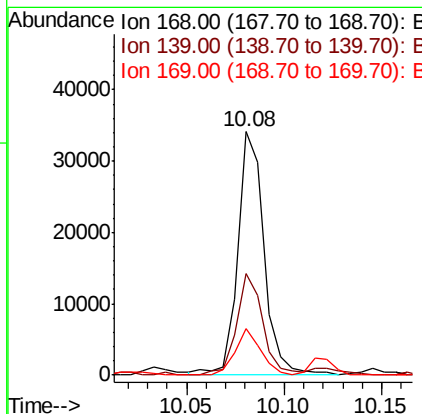
RT: 10.08 min Scan# 1359

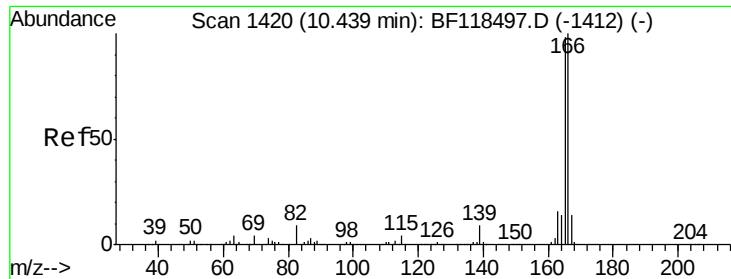
Delta R.T. -0.01 min

Lab File: BF118512.D

Acq: 8 Jan 2020 21:41

Tgt Ion:	168	Resp:	32017
Ion	Ratio	Lower	Upper
168	100		
139	41.8	32.5	48.7
169	19.1	10.6	16.0#





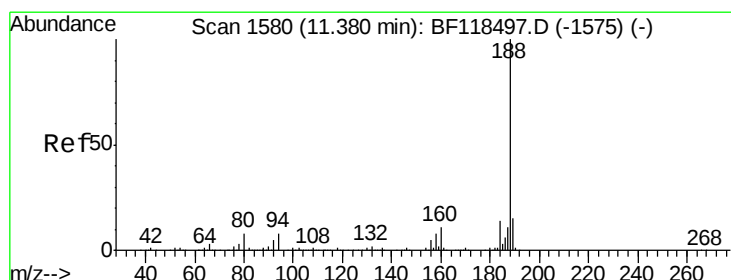
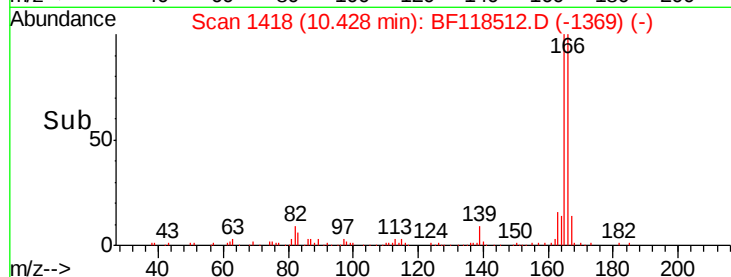
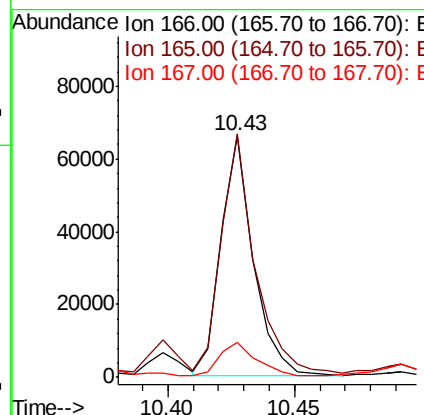
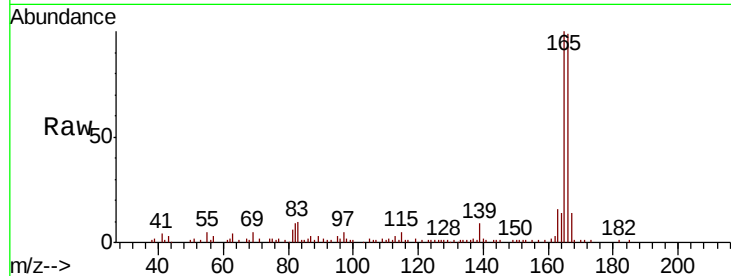
#58
 Fluorene
 Concen: 6.334 ng
 RT: 10.43 min Scan# 1418
 Delta R.T. -0.01 min
 Lab File: BF118512.D
 Acq: 8 Jan 2020 21:41

Instrument :
 BNA_F
 ClientSampleId :
 PL-01-010720

Tot Ion	Ion	Ratio	Resp	Lower	Upper
166	100				
165	100.8	78.6		117.8	
167	14.3	10.8		16.2	

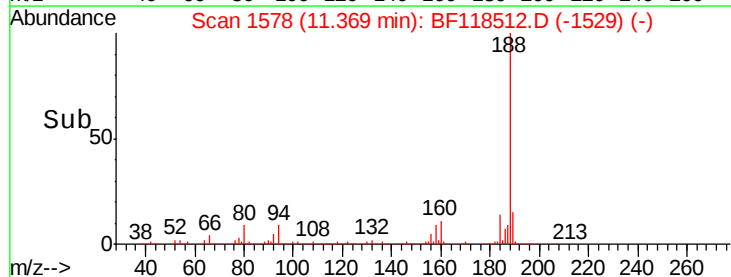
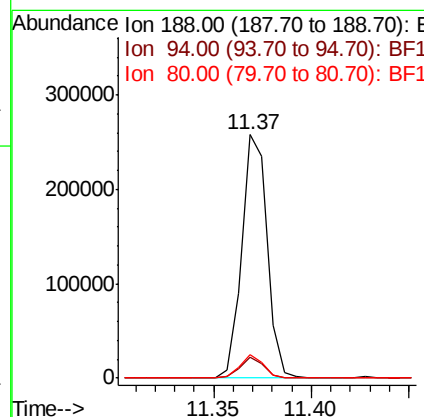
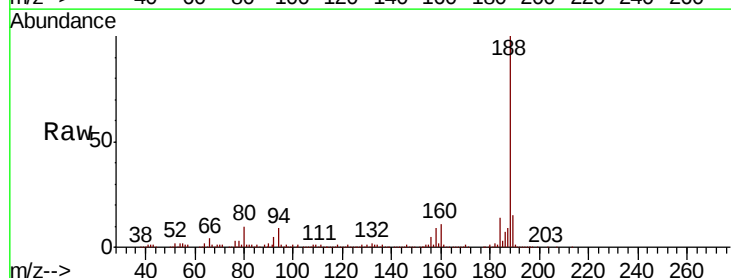
Manual Integrations
 APPROVED

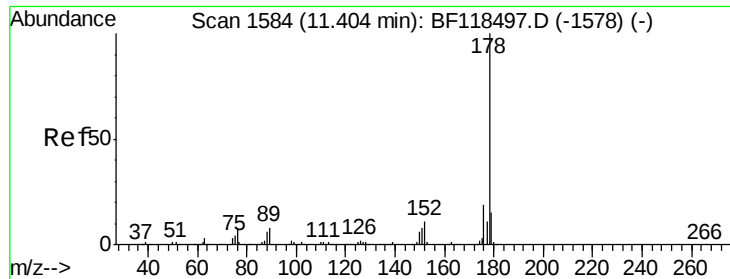
mohammad
 1/9/2020 12:11:05 PM



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.37 min Scan# 1578
 Delta R.T. -0.01 min
 Lab File: BF118512.D
 Acq: 8 Jan 2020 21:41

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
188	100				
94	8.5	6.2		9.4	
80	9.5	6.6		10.0	





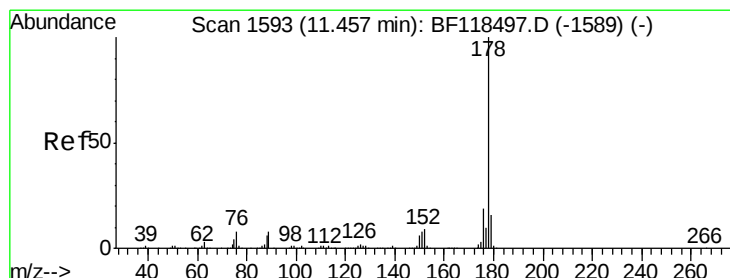
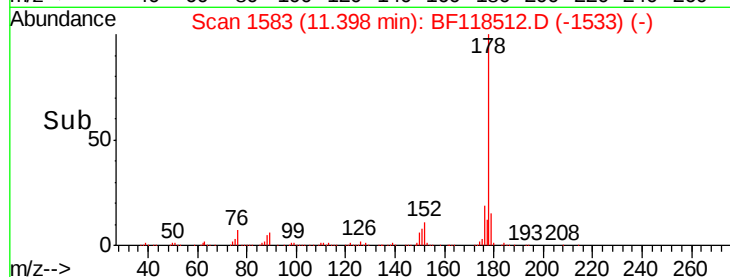
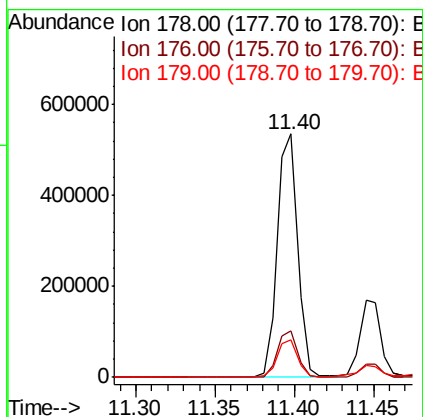
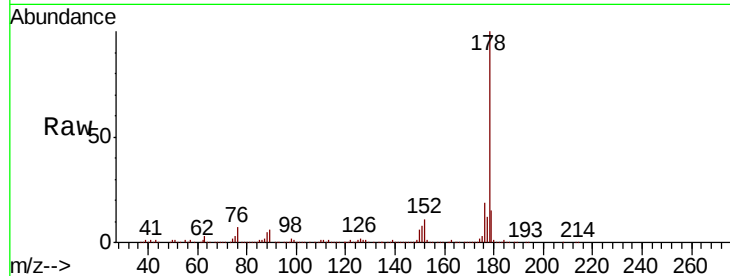
#71
Phenanthrene
Concen: 37.163 ng
RT: 11.40 min Scan# 1583
Delta R.T. -0.01 min
Lab File: BF118512.D
Acq: 8 Jan 2020 21:41

Instrument :
BNA_F
ClientSampleId :
PL-01-010720

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.2	22.8
179	15.4	12.3	18.5

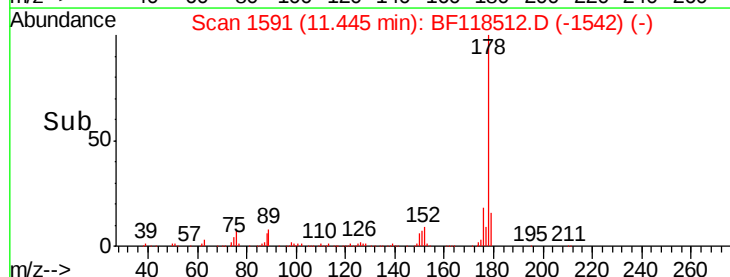
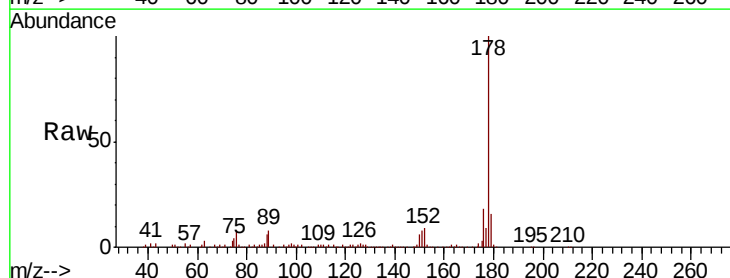
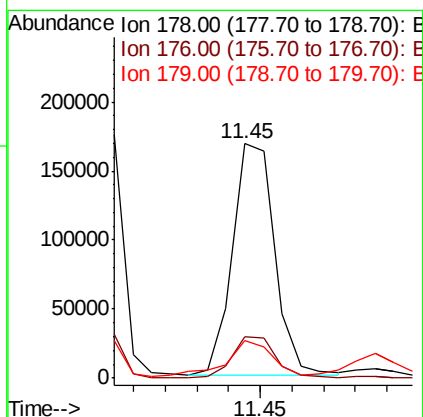
Manual Integrations
APPROVED

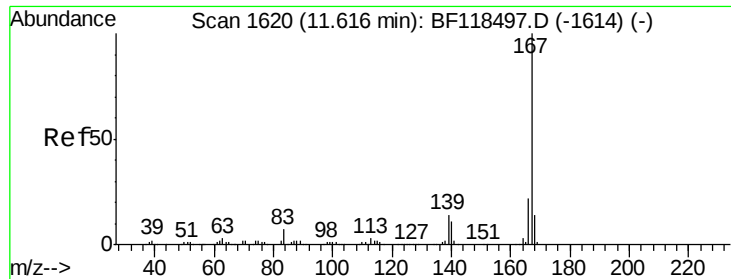
mohammad
1/9/2020 12:11:05 PM



#72
Anthracene
Concen: 11.898 ng
RT: 11.45 min Scan# 1591
Delta R.T. -0.01 min
Lab File: BF118512.D
Acq: 8 Jan 2020 21:41

Tgt Ion	Ratio	Lower	Upper
178	100		
176	17.8	15.0	22.4
179	16.2	12.6	19.0





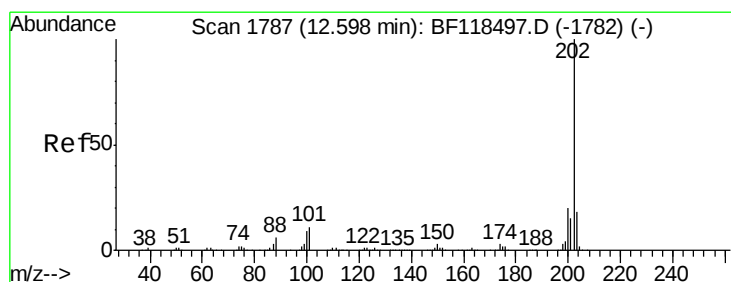
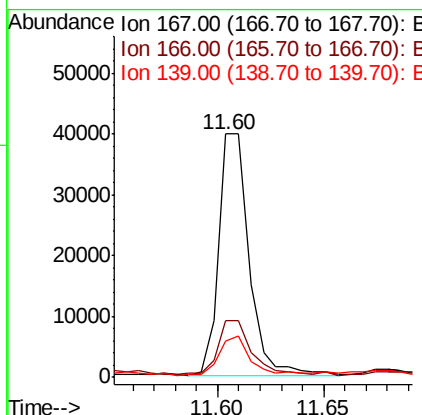
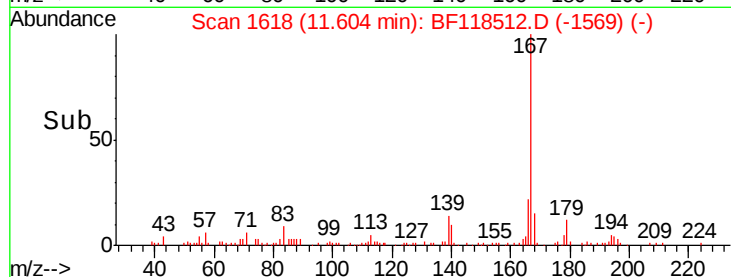
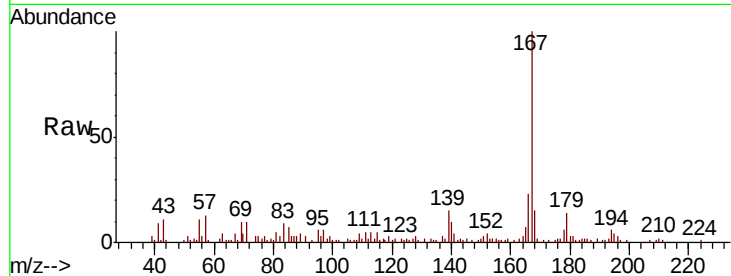
#73
 Carbazole
 Concen: 3.543 ng
 RT: 11.60 min Scan# 1618
 Delta R.T. -0.01 min
 Lab File: BF118512.D
 Acq: 8 Jan 2020 21:41

Instrument :
 BNA_F
 ClientSampleId :
 PL-01-010720

Tot Ion	Ratio	Lower	Upper
167	100		
166	23.4	17.4	26.2
139	15.1	10.9	16.3

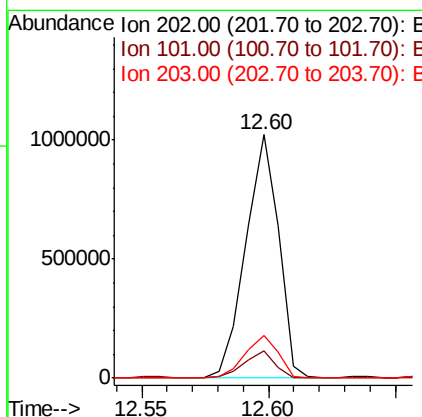
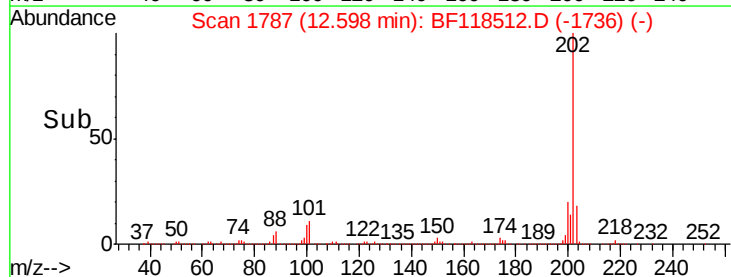
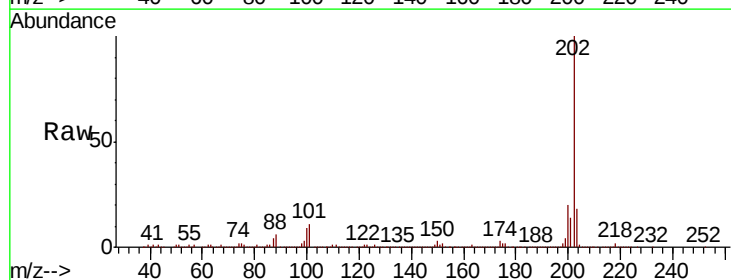
Manual Integrations
 APPROVED

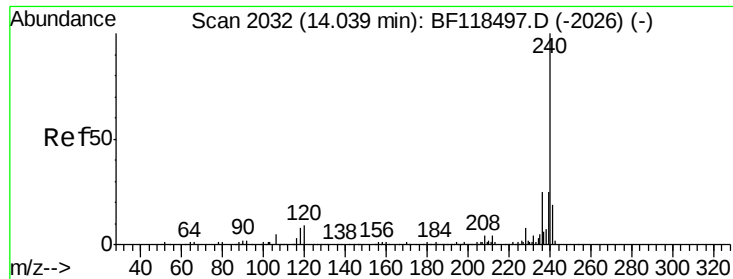
mohammad
 1/9/2020 12:11:05 PM



#75
 Fluoranthene
 Concen: 69.972 ng
 RT: 12.60 min Scan# 1787
 Delta R.T. -0.00 min
 Lab File: BF118512.D
 Acq: 8 Jan 2020 21:41

Tgt Ion	Ratio	Lower	Upper
202	100		
101	11.2	0.0	31.4
203	17.7	0.0	38.1





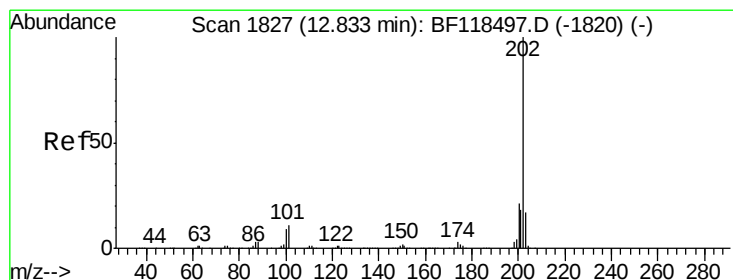
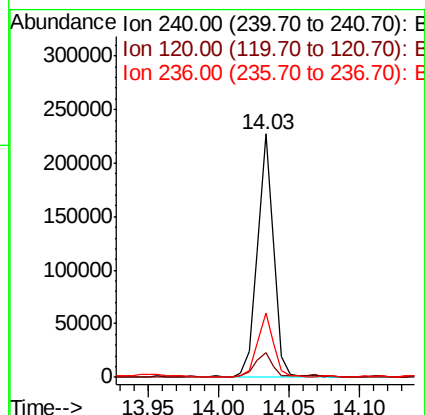
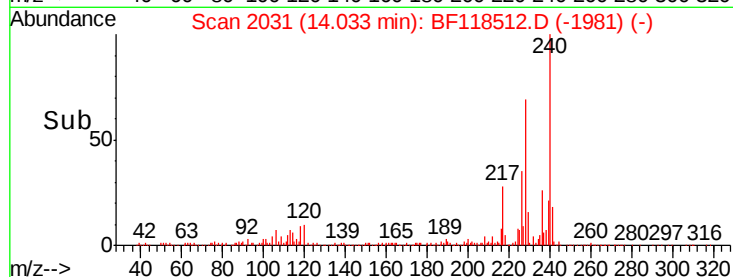
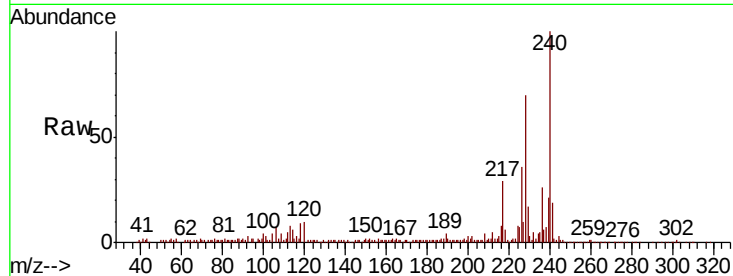
#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.03 min Scan# 2031
Delta R.T. -0.01 min
Lab File: BF118512.D
Acq: 8 Jan 2020 21:41

Instrument :
BNA_F
ClientSampleId :
PL-01-010720

Tot Ion	Ratio	Resp	Lower	Upper
240	100			
120	10.3	7.0	10.6	
236	26.2	20.1	30.1	

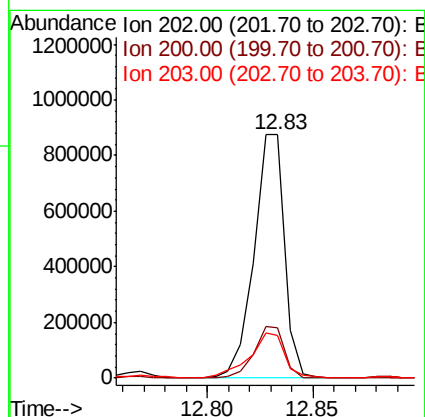
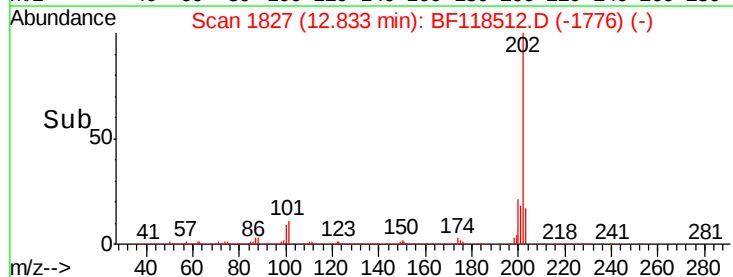
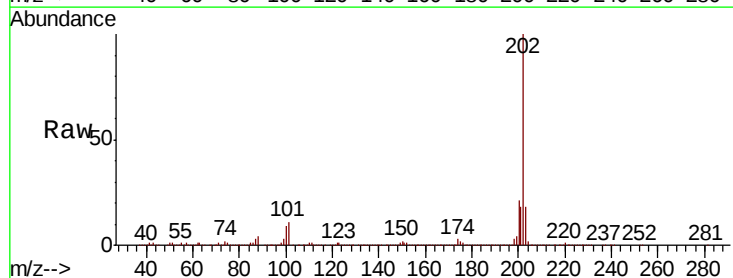
Manual Integrations
APPROVED

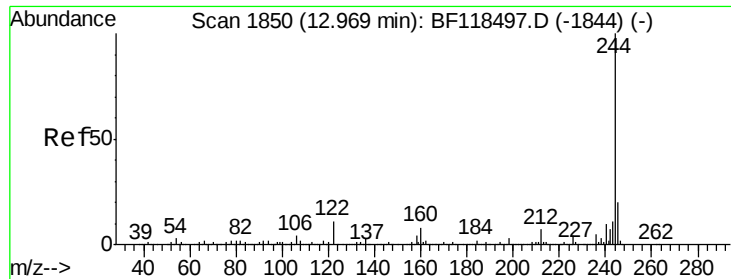
mohammad
1/9/2020 12:11:05 PM



#78
Pyrene
Concen: 58.013 ng
RT: 12.83 min Scan# 1827
Delta R.T. -0.00 min
Lab File: BF118512.D
Acq: 8 Jan 2020 21:41

Tgt Ion	Ratio	Resp	Lower	Upper
202	100			
200	20.7	16.9	25.3	
203	17.6	13.9	20.9	





#79

Terphenyl-d14

Concen: 18.333 ng

RT: 12.96 min Scan# 1849

Delta R.T. -0.01 min

Lab File: BF118512.D

Acq: 8 Jan 2020 21:41

Instrument :

BNA_F

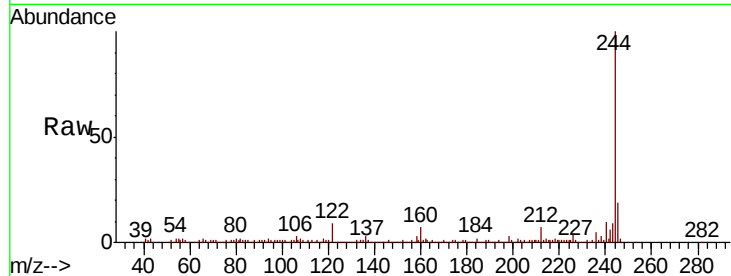
ClientSampleId :

PL-01-010720

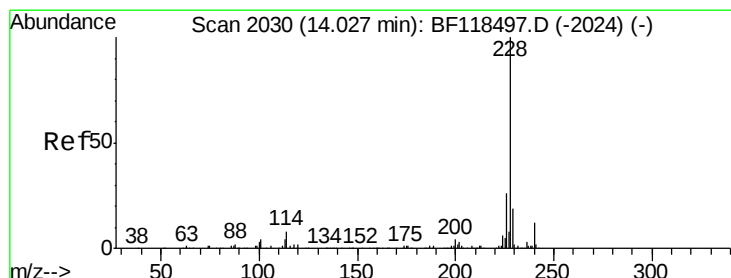
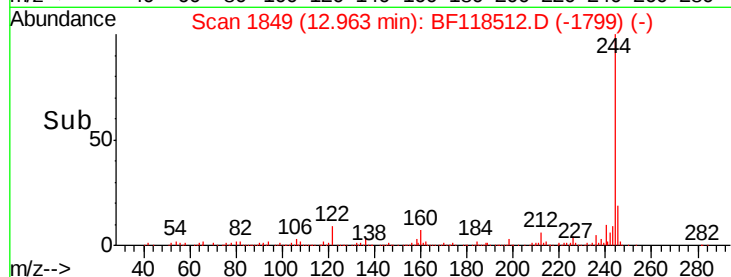
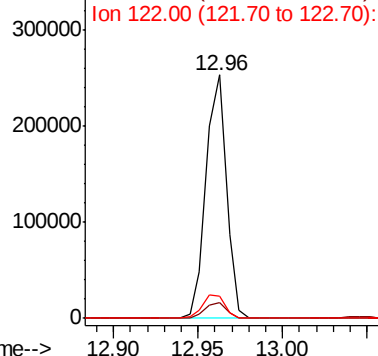
Tot Ion:	244	Resp:	213482
Ion Ratio		Lower	Upper
244	100		
212	6.5	5.6	8.4
122	8.9	9.0	13.6#

Manual Integrations
APPROVED

mohammad
1/9/2020 12:11:05 PM



Abundance Ion 244.00 (243.70 to 244.70): E
Ion 212.00 (211.70 to 212.70): E
Ion 122.00 (121.70 to 122.70): E



#81

Benzo(a)anthracene

Concen: 51.924 ng

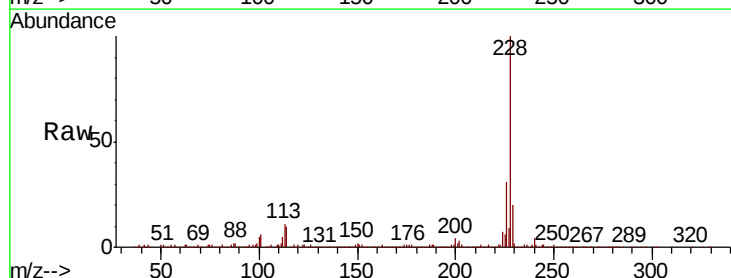
RT: 14.02 min Scan# 2029

Delta R.T. -0.01 min

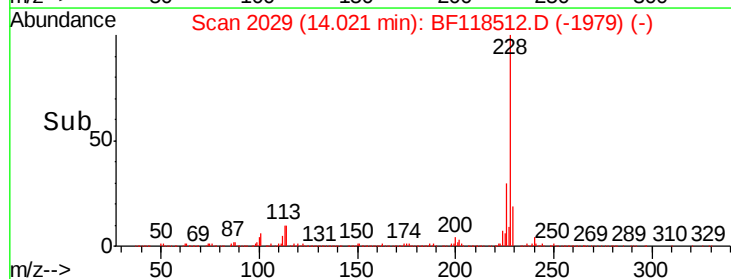
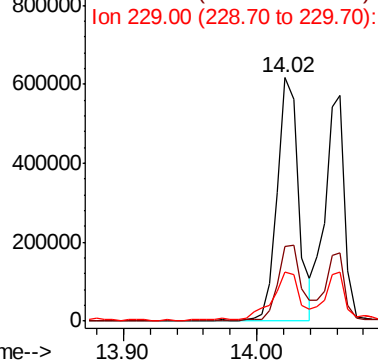
Lab File: BF118512.D

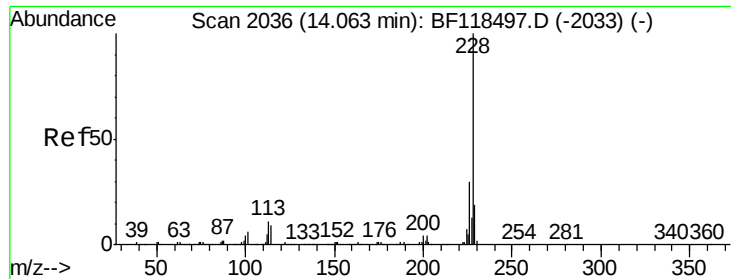
Acq: 8 Jan 2020 21:41

Tgt Ion:	228	Resp:	670656
Ion Ratio		Lower	Upper
228	100		
226	30.5	20.7	31.1
229	20.4	15.4	23.2



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





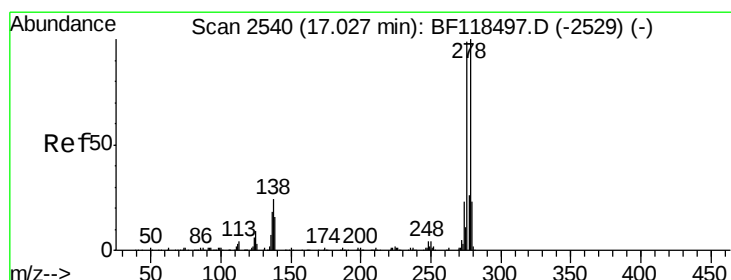
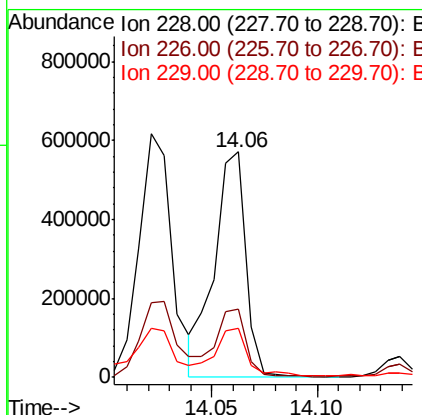
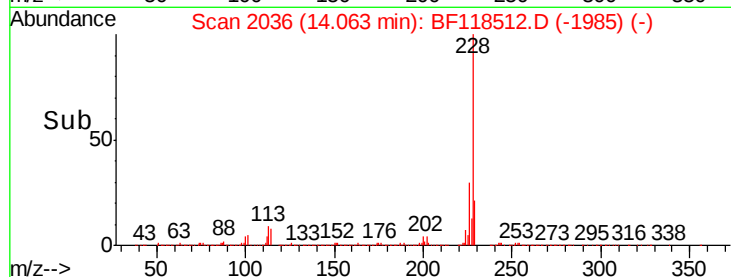
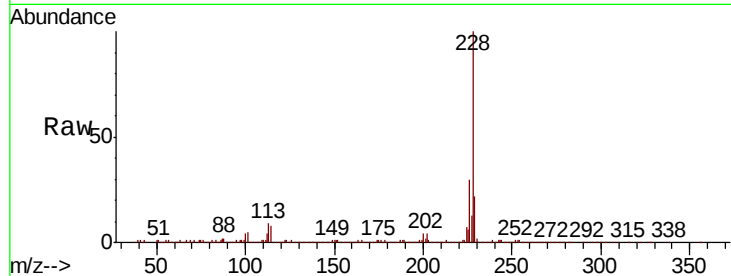
#83
Chrysene
Concen: 46.863 ng
RT: 14.06 min Scan# 2036
Delta R.T. -0.00 min
Lab File: BF118512.D
Acq: 8 Jan 2020 21:41

Instrument :
BNA_F
ClientSampleId :
PL-01-010720

Tot Ion:	228	Resp:	588188
Ion Ratio	Lower	Upper	
228	100		
226	30.2	23.6	35.4
229	22.0	15.6	23.4

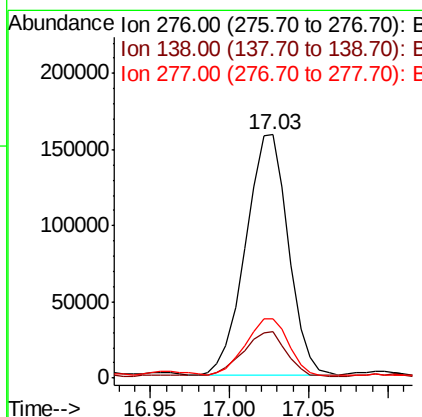
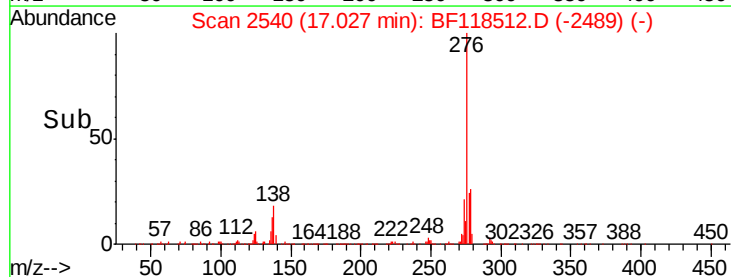
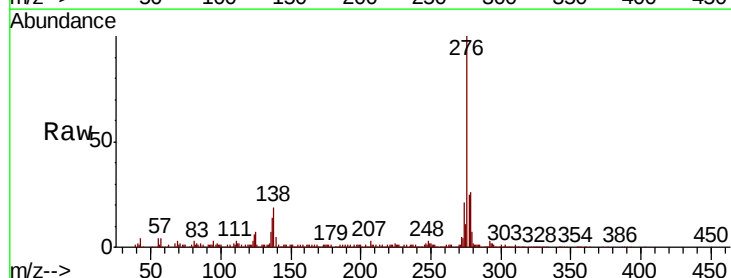
Manual Integrations
APPROVED

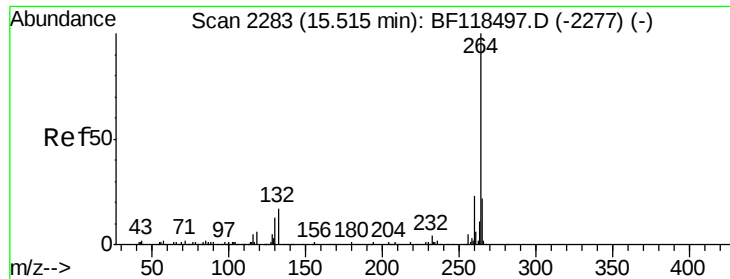
mohammad
1/9/2020 12:11:05 PM



#86
Indeno(1,2,3-cd)pyrene
Concen: 29.170 ng
RT: 17.03 min Scan# 2540
Delta R.T. -0.00 min
Lab File: BF118512.D
Acq: 8 Jan 2020 21:41

Tgt Ion:	276	Resp:	294753
Ion Ratio	Lower	Upper	
276	100		
138	19.1	19.0	28.4
277	24.4	20.5	30.7





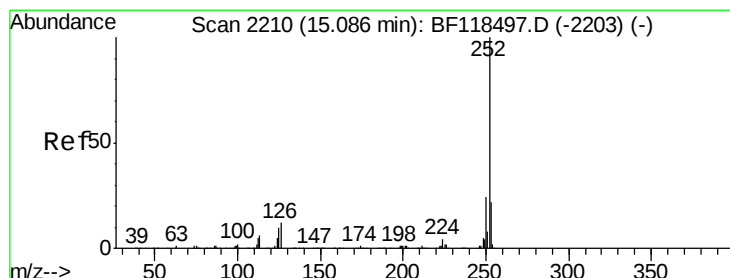
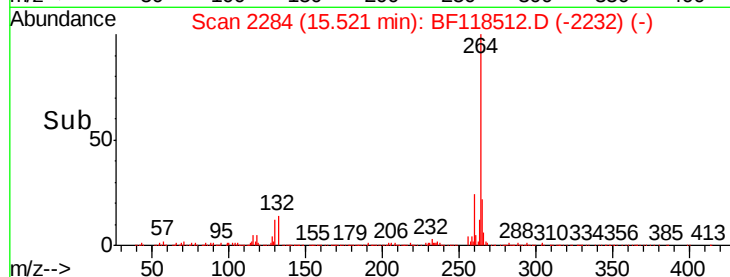
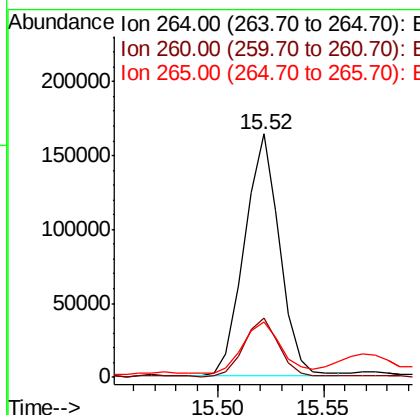
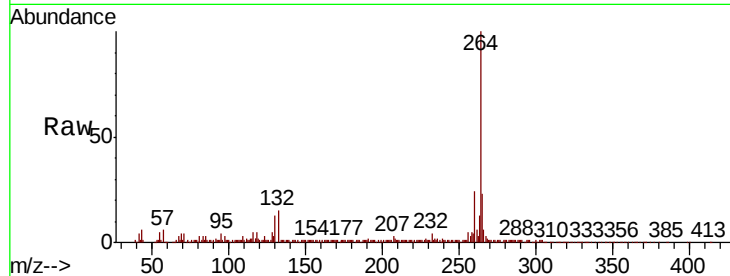
#87
Pervlene-d12
Concen: 20.000 ng
RT: 15.52 min Scan# 2284
Delta R.T. 0.01 min
Lab File: BF118512.D
Acq: 8 Jan 2020 21:41

Instrument :
BNA_F
ClientSampleId :
PL-01-010720

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.1	18.8	28.2
265	22.5	17.5	26.3

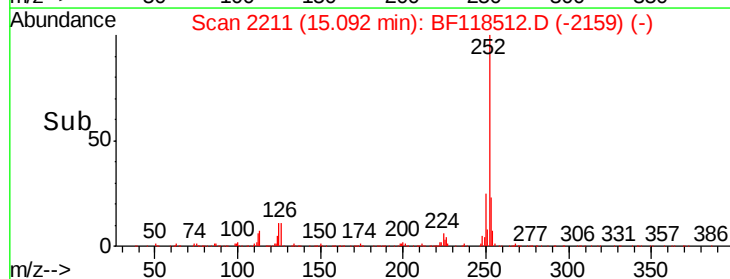
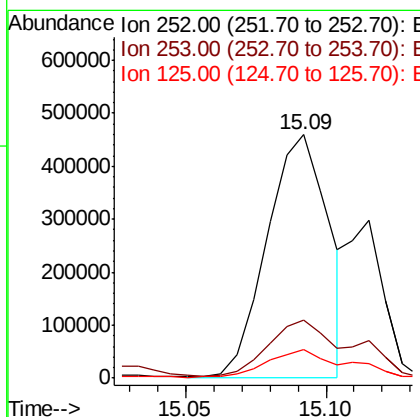
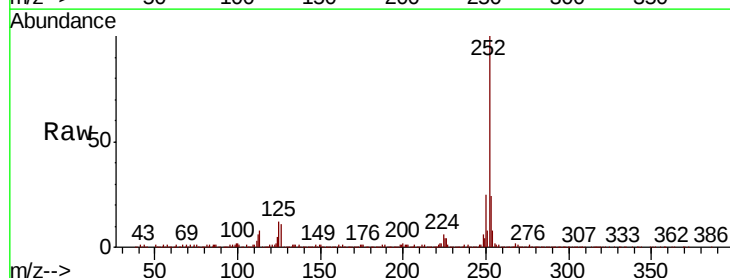
Manual Integrations
APPROVED

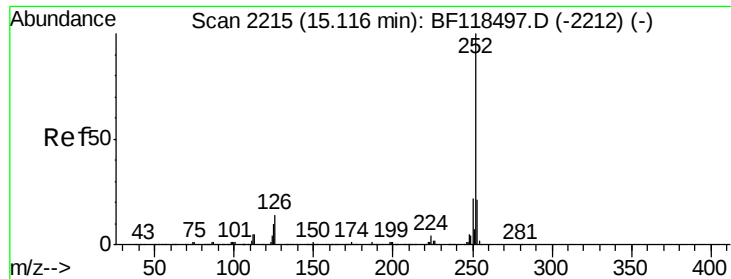
mohammad
1/9/2020 12:11:05 PM



#88
Benzo(b)fluoranthene
Concen: 50.719 ng m
RT: 15.09 min Scan# 2211
Delta R.T. 0.01 min
Lab File: BF118512.D
Acq: 8 Jan 2020 21:41

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.0	17.6	26.4
125	11.6	7.8	11.6#





#89

Benzo(k)fluoranthene

Concen: 19.951 ng

RT: 15.12 min Scan# 2215

Delta R.T. -0.00 min

Lab File: BF118512.D

Acq: 8 Jan 2020 21:41

Instrument :

BNA_F

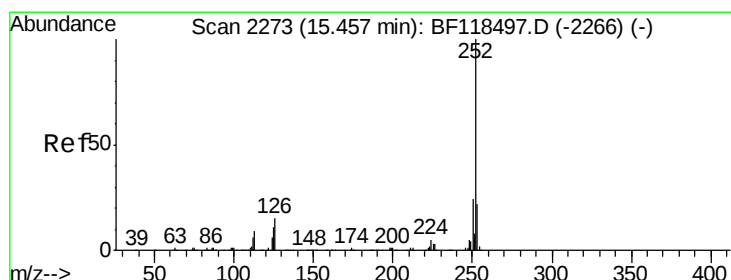
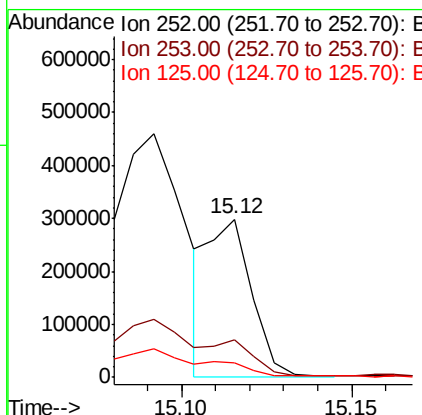
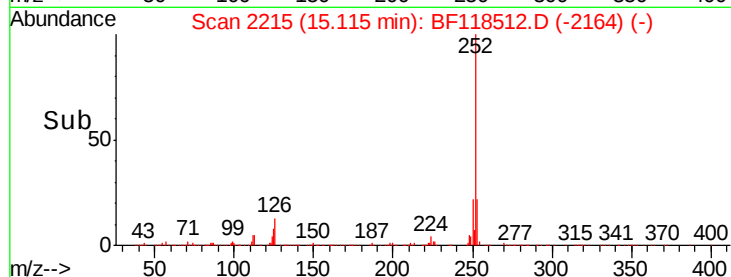
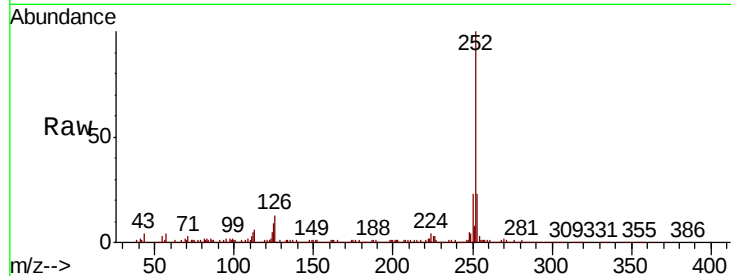
ClientSampleId :

PL-01-010720

Tot Ion:	252	Resp:	259866
Ion Ratio	Lower	Upper	
252	100		
253	23.3	17.0	25.4
125	8.8	7.8	11.6

Manual Integrations
APPROVED

mohammad
1/9/2020 12:11:05 PM



#90

Benzo(a)pyrene

Concen: 46.398 ng

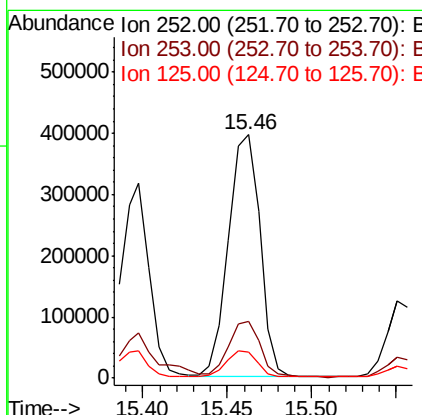
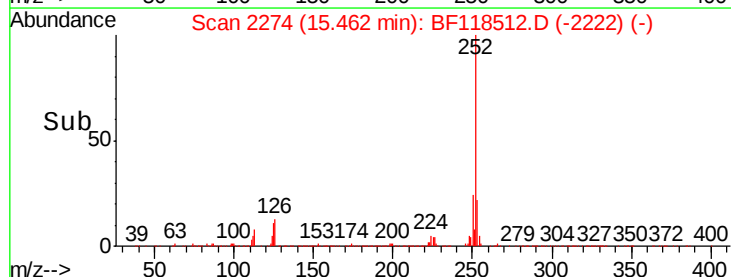
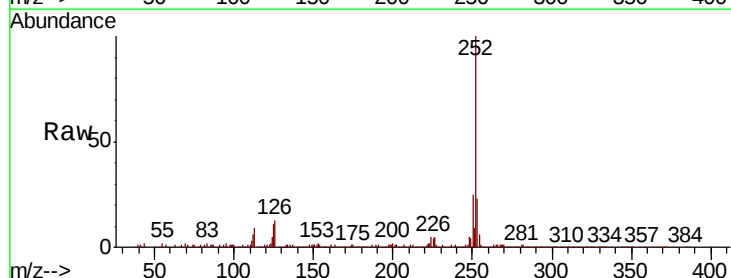
RT: 15.46 min Scan# 2274

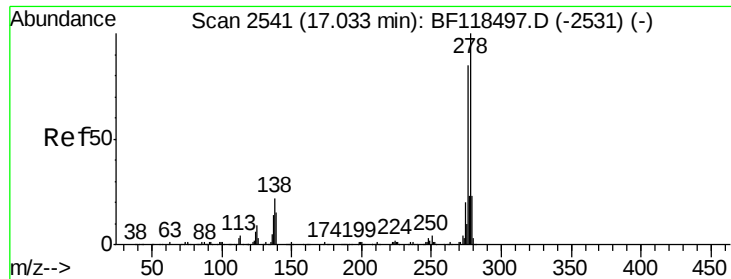
Delta R.T. 0.01 min

Lab File: BF118512.D

Acq: 8 Jan 2020 21:41

Tgt Ion:	252	Resp:	518856
Ion Ratio	Lower	Upper	
252	100		
253	23.5	17.7	26.5
125	10.9	9.0	13.6





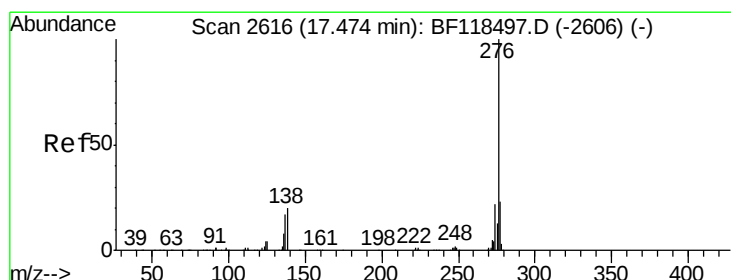
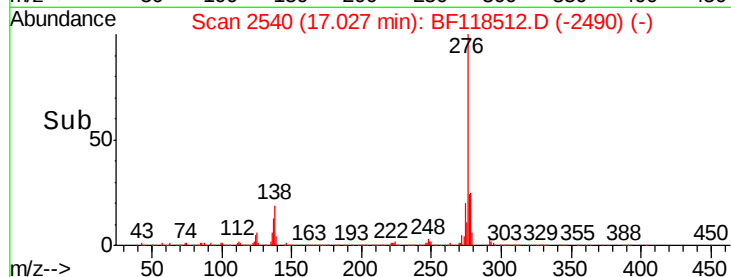
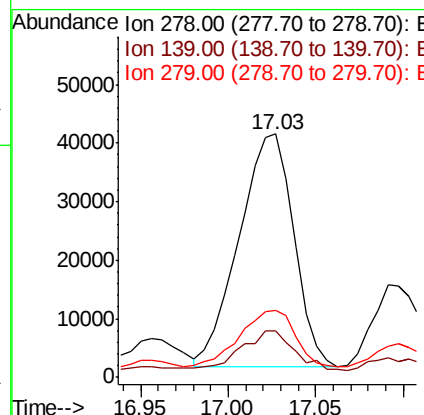
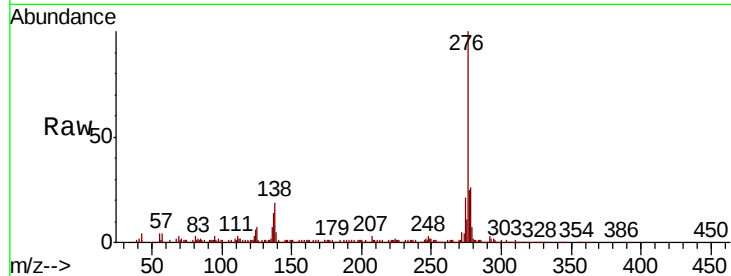
#91
Dibenzo(a,h)anthracene
Concen: 8.244 ng m
RT: 17.03 min Scan# 2540
Delta R.T. -0.01 min
Lab File: BF118512.D
Acq: 8 Jan 2020 21:41

Instrument :
BNA_F
ClientSampleId :
PL-01-010720

Tot Ion	Ratio	Lower	Upper
278	100		
139	19.3	11.9	17.9#
279	27.5	18.6	27.8

Manual Integrations
APPROVED

mohammad
1/9/2020 12:11:05 PM



#92
Benzo(g,h,i)perylene
Concen: 26.071 ng
RT: 17.48 min Scan# 2617
Delta R.T. 0.01 min
Lab File: BF118512.D
Acq: 8 Jan 2020 21:41

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.6	18.2	27.4
138	21.9	16.3	24.5

