

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF041620\
 Data File : BF120035.D
 Acq On : 16 Apr 2020 14:47
 Operator : MA/SJ
 Sample : L2115-01 5X
 Misc :
 ALS Vial : 43 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 CL-01-041020

Manual Integrations
 APPROVED

mohammad
 4/17/2020 1:48:22 PM

Quant Time: Apr 17 02:56:20 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF040820.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Apr 16 10:48:04 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.72	152	147709	20.00	ng	0.00
21) Naphthalene-d8	8.01	136	533792	20.00	ng	0.00
39) Acenaphthene-d10	9.76	164	248649	20.00	ng	0.00
64) Phenanthrene-d10	11.25	188	389244	20.00	ng	0.00
76) Chrysene-d12	13.89	240	261683	20.00	ng	0.00
87) Perylene-d12	15.32	264	243117	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.32	112	183492	21.47	ng	0.00
7) Phenol-d6	6.35	99	254191	23.08	ng	-0.01
23) Nitrobenzene-d5	7.28	82	148637	14.41	ng	-0.02
42) 2,4,6-Tribromophenol	10.55	330	42074	13.82	ng	-0.01
45) 2-Fluorobiphenyl	9.09	172	285159	16.28	ng	0.00
79) Terphenyl-d14	12.84	244	206881	13.30	ng	-0.01

Target Compounds				Qvalue		
37) 2-Methylnaphthalene	8.72	142	44652	2.345	ng	96
38) 1-Methylnaphthalene	8.82	142	49512	2.759	ng	99
52) Acenaphthene	9.80	154	62010	3.781	ng	99
55) Dibenzofuran	9.97	168	59804	2.657	ng	# 96
58) Fluorene	10.31	166	139489	7.749	ng	98
71) Phenanthrene	11.28	178	842893	40.688	ng	100
72) Anthracene	11.33	178	215486	10.182	ng	98
73) Carbazole	11.48	167	56218	2.809	ng	99
75) Fluoranthene	12.47	202	634448	28.384	ng	96
78) Pyrene	12.69	202	632280	28.661	ng	99
81) Benzo(a)anthracene	13.88	228	272580	15.834	ng	97
83) Chrysene	13.92	228	231559	13.238	ng	95
86) Indeno(1,2,3-cd)pyrene	16.70	276	65653	4.258	ng	97
88) Benzo(b)fluoranthene	14.91	252	224129m	12.815	ng	
89) Benzo(k)fluoranthene	14.93	252	71748m	4.755	ng	
90) Benzo(a)pyrene	15.26	252	182499	12.411	ng	98
92) Benzo(a,h,i)perylene	17.12	276	61191	4.759	ng	96

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

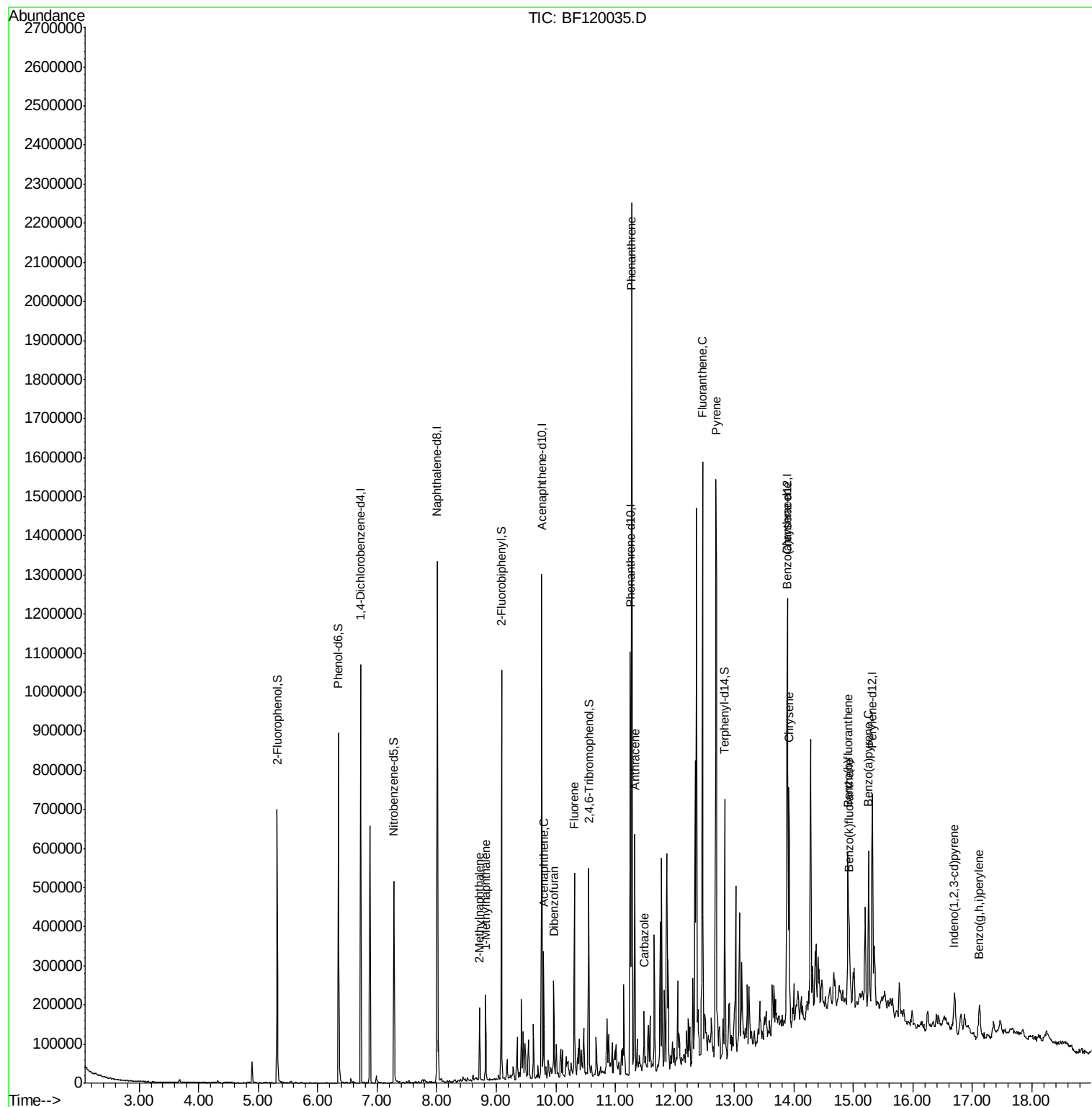
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF041620\
Data File : BF120035.D
Acq On : 16 Apr 2020 14:47
Operator : MA/SJ
Sample : L2115-01 5X
Misc :
ALS Vial : 43 Sample Multiplier: 1

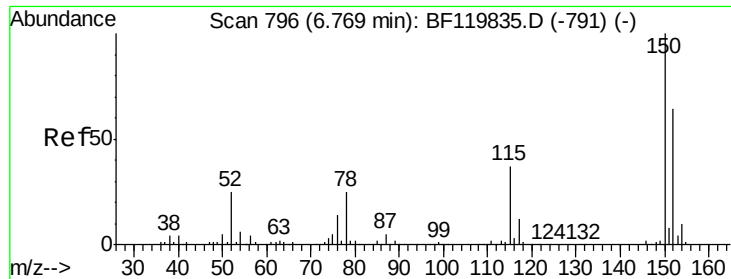
Instrument :
BNA_F
ClientSampleId :
CL-01-041020

Manual Integrations
APPROVED

mohammad
4/17/2020 1:48:22 PM

Quant Time: Apr 17 02:56:20 2020
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF040820.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Apr 16 10:48:04 2020
Response via : Initial Calibration





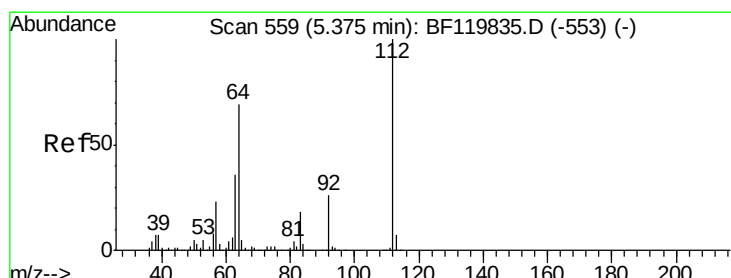
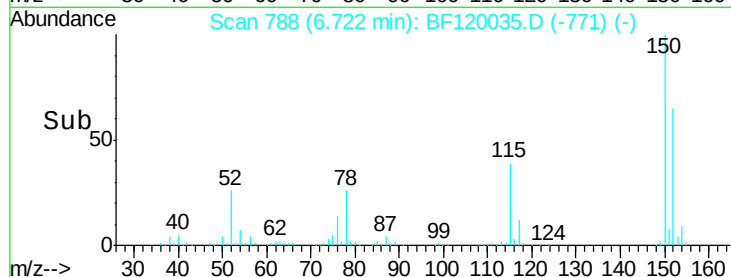
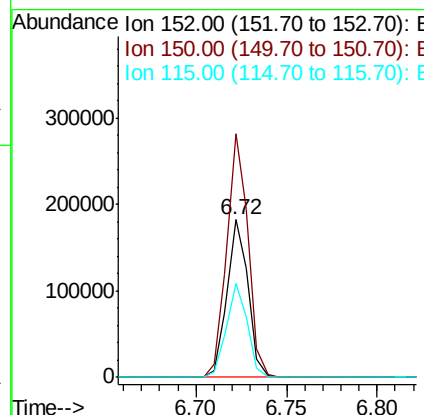
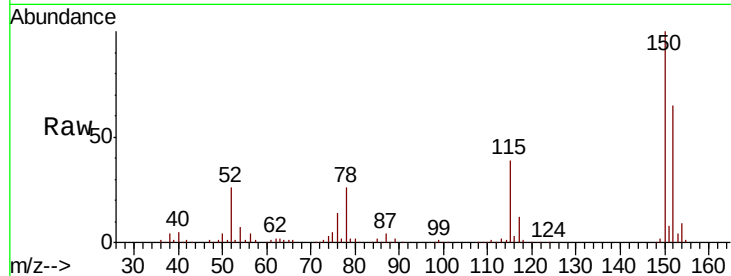
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.72 min Scan# 788
 Delta R.T. -0.00 min
 Lab File: BF120035.D
 Acq: 16 Apr 2020 14:47

Instrument :
 BNA_F
 ClientSampleId :
 CL-01-041020

Tot Ion	Ratio	Lower	Upper
152	100		
150	154.4	124.8	187.2
115	59.6	46.5	69.7

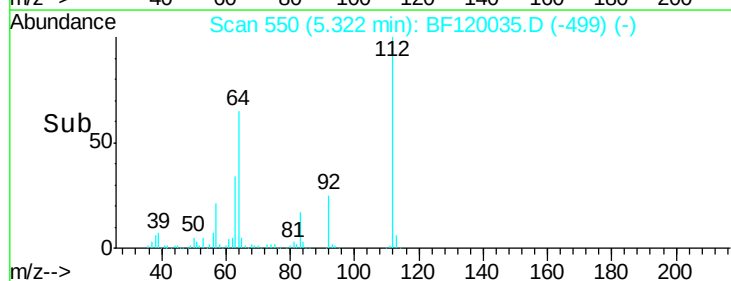
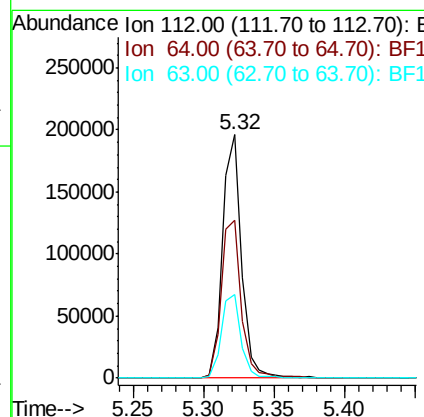
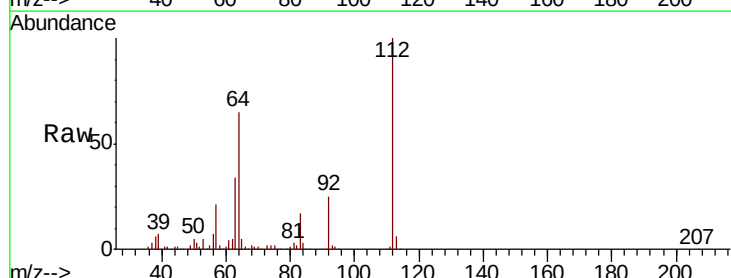
Manual Integrations
 APPROVED

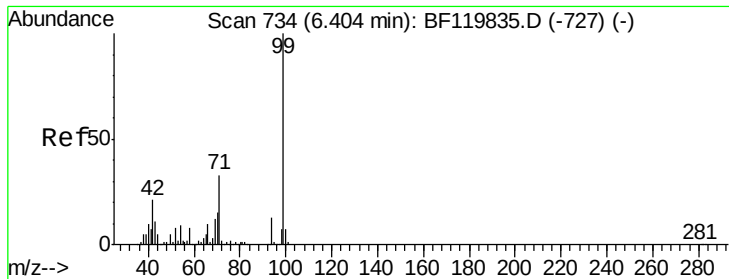
mohammad
 4/17/2020 1:48:22 PM



#5
 2-Fluorophenol
 Concen: 21.468 ng
 RT: 5.32 min Scan# 550
 Delta R.T. -0.00 min
 Lab File: BF120035.D
 Acq: 16 Apr 2020 14:47

Tgt Ion	Ratio	Lower	Upper
112	100		
64	64.6	55.5	83.3
63	34.2	29.1	43.7





#7

Phenol-d6

Concen: 23.080 ng

RT: 6.35 min Scan# 725

Delta R.T. -0.01 min

Lab File: BF120035.D

Acq: 16 Apr 2020 14:47

Instrument :

BNA_F

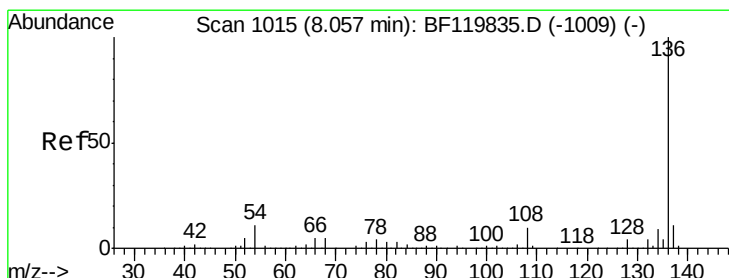
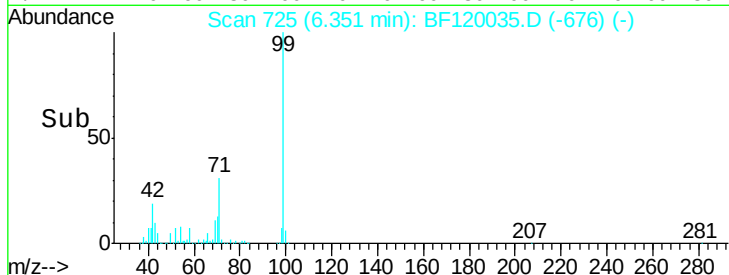
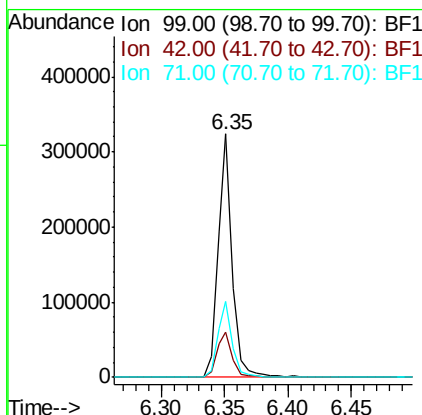
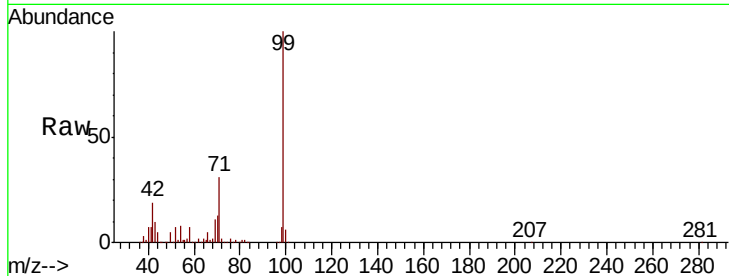
ClientSampleId :

CL-01-041020

Tot Ion:	99	Resp:	254191
Ion Ratio	Lower	Upper	
99	100		
42	18.6	16.9	25.3
71	31.0	26.3	39.5

Manual Integrations
APPROVED

mohammad
4/17/2020 1:48:22 PM



#21

Naphthalene-d8

Concen: 20.000 ng

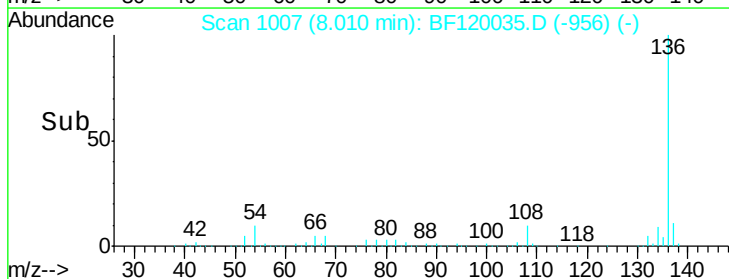
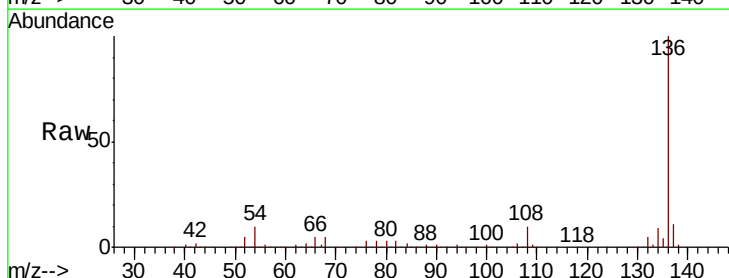
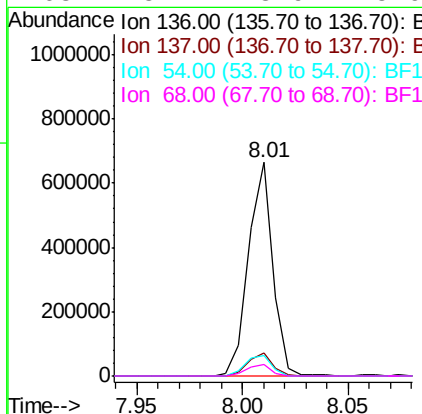
RT: 8.01 min Scan# 1007

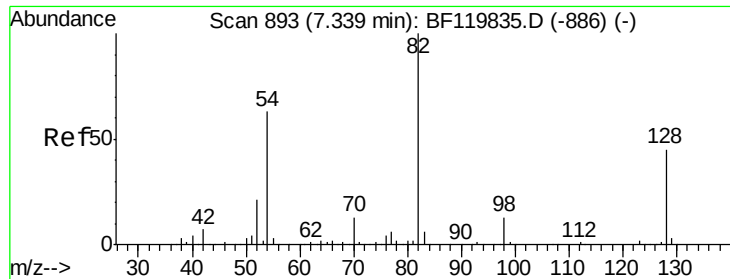
Delta R.T. -0.00 min

Lab File: BF120035.D

Acq: 16 Apr 2020 14:47

Tgt Ion:	136	Resp:	533792
Ion Ratio	Lower	Upper	
136	100		
137	10.9	8.7	13.1
54	9.9	8.5	12.7
68	5.2	3.9	5.9





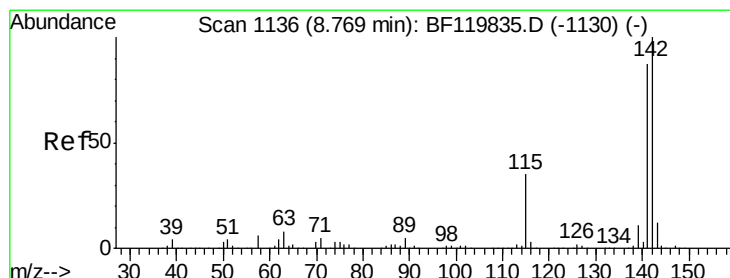
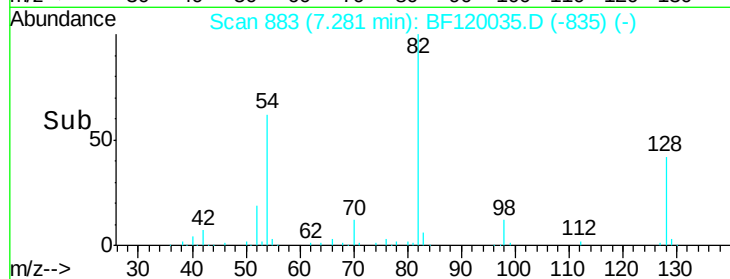
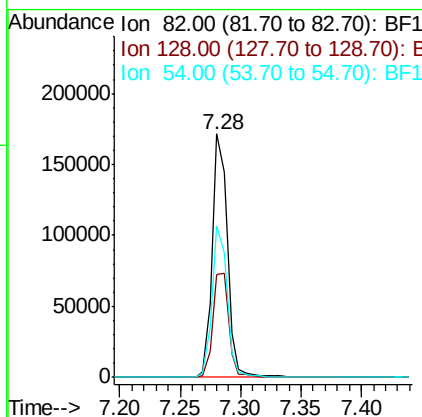
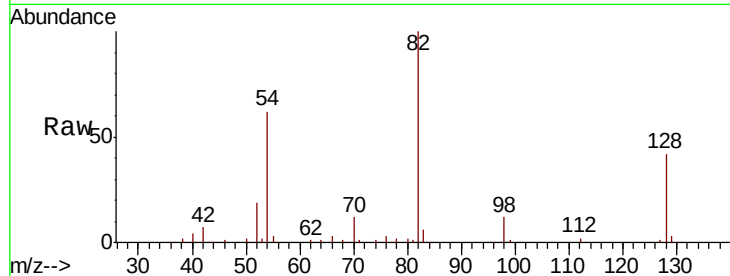
#23
Nitrobenzene-d5
Concen: 14.405 ng
RT: 7.28 min Scan# 883
Delta R.T. -0.02 min
Lab File: BF120035.D
Acq: 16 Apr 2020 14:47

Instrument :
BNA_F
ClientSampleId :
CL-01-041020

Tot Ion	Ratio	Resp	Lower	Upper
82	100			
128	42.4	36.2	54.4	
54	62.1	50.4	75.6	

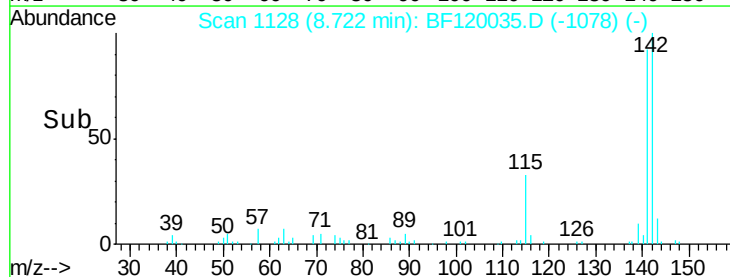
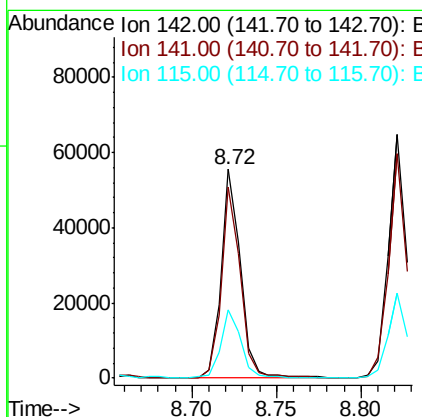
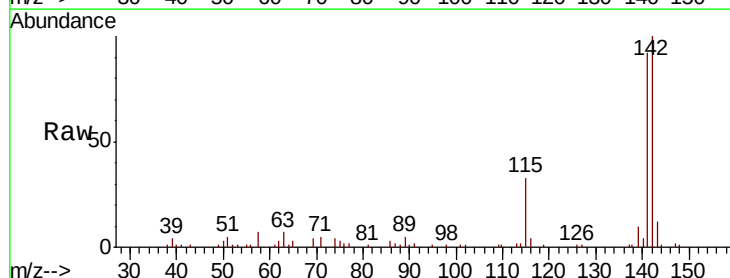
Manual Integrations
APPROVED

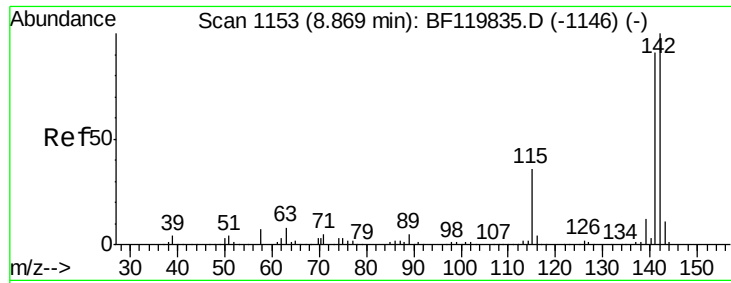
mohammad
4/17/2020 1:48:22 PM



#37
2-Methylnaphthalene
Concen: 2.345 ng
RT: 8.72 min Scan# 1128
Delta R.T. -0.01 min
Lab File: BF120035.D
Acq: 16 Apr 2020 14:47

Tgt Ion	Ratio	Resp	Lower	Upper
142	100			
141	91.7	69.9	104.9	
115	32.9	28.0	42.0	





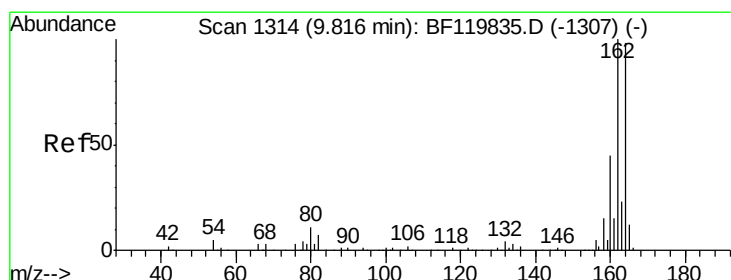
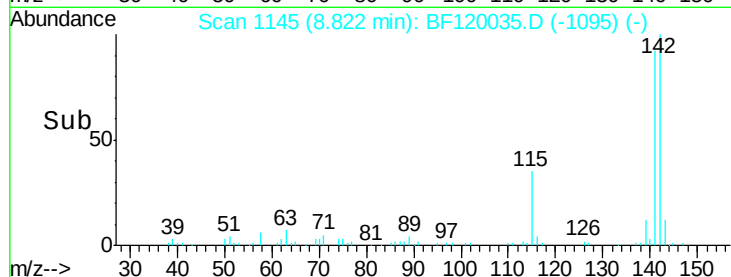
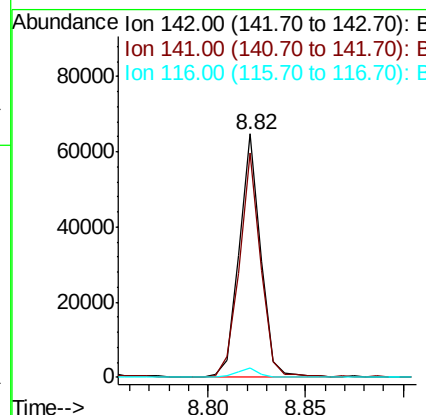
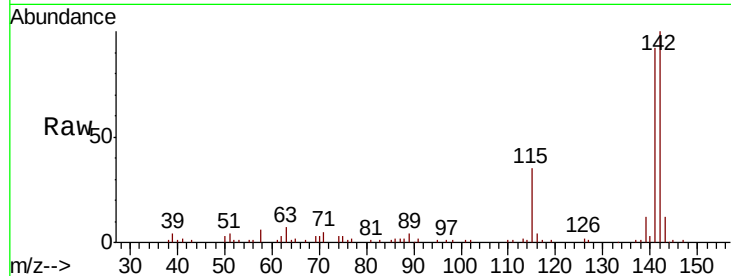
#38
1-Methylnaphthalene
Concen: 2.759 ng
RT: 8.82 min Scan# 1145
Delta R.T. -0.01 min
Lab File: BF120035.D
Acq: 16 Apr 2020 14:47

Instrument :
BNA_F
ClientSampleId :
CL-01-041020

Tot Ion	Ratio	Lower	Upper
142	100		
141	92.3	72.9	109.3
116	3.9	3.0	4.6

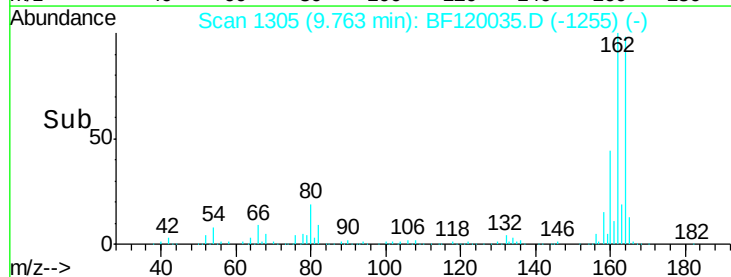
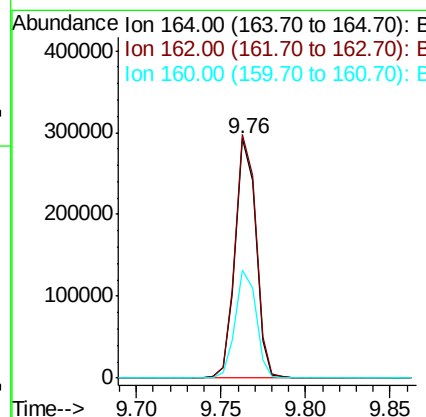
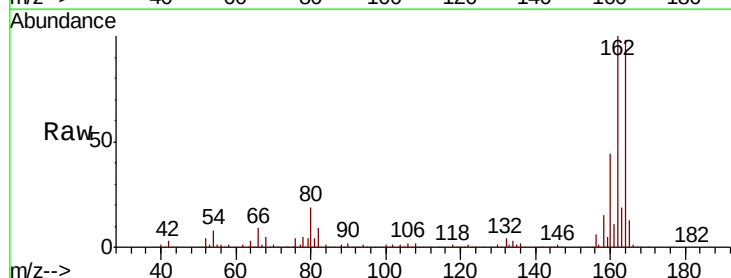
Manual Integrations
APPROVED

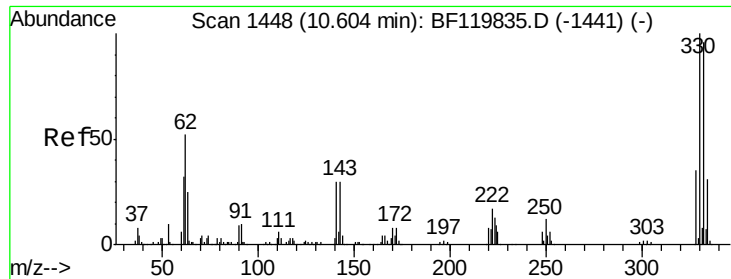
mohammad
4/17/2020 1:48:22 PM



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.76 min Scan# 1305
Delta R.T. -0.01 min
Lab File: BF120035.D
Acq: 16 Apr 2020 14:47

Tgt Ion	Ratio	Lower	Upper
164	100		
162	101.7	81.9	122.9
160	45.0	36.6	54.8





#42

2,4,6-Tribromophenol

Concen: 13.821 ng

RT: 10.55 min Scan# 1439

Delta R.T. -0.01 min

Lab File: BF120035.D

Acq: 16 Apr 2020 14:47

Instrument :

BNA_F

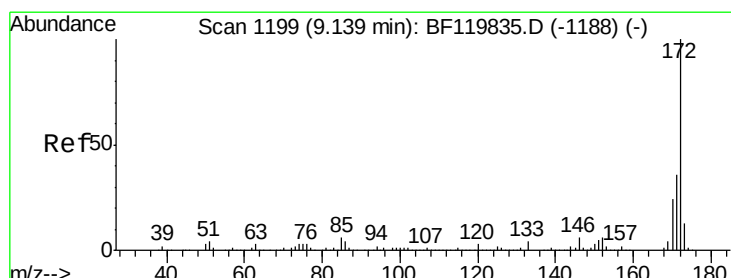
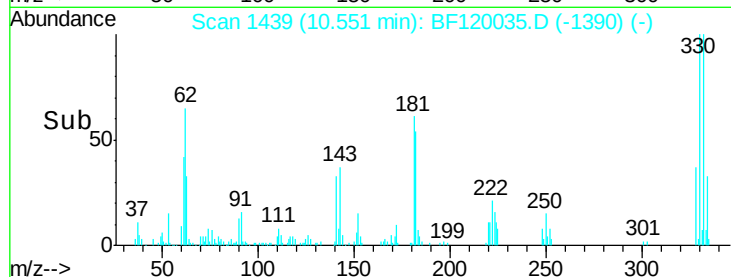
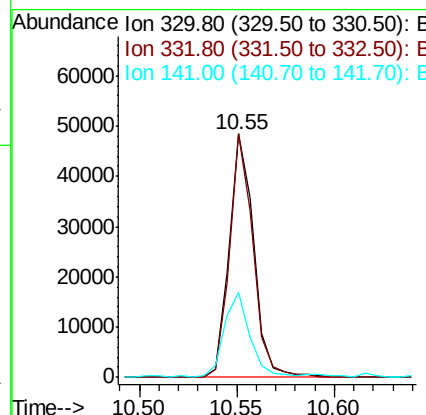
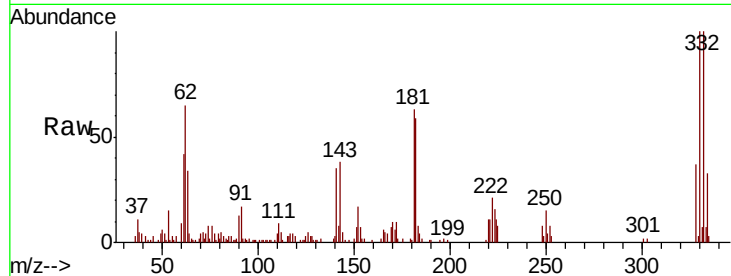
ClientSampleId :

CL-01-041020

Tot Ion	Ratio	Lower	Upper
330	100		
332	95.8	76.8	115.2
141	38.6	25.1	37.7#

Manual Integrations
APPROVED

mohammad
4/17/2020 1:48:22 PM



#45

2-Fluorobiphenyl

Concen: 16.283 ng

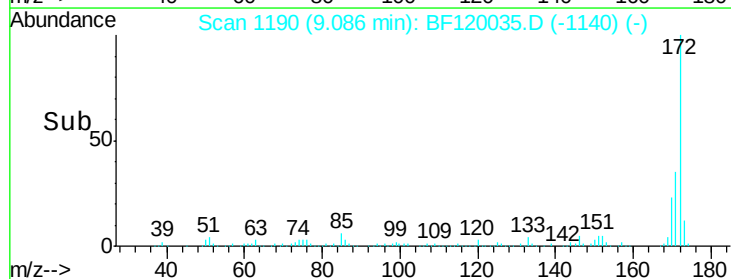
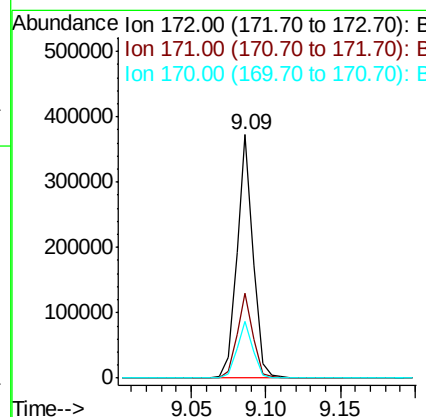
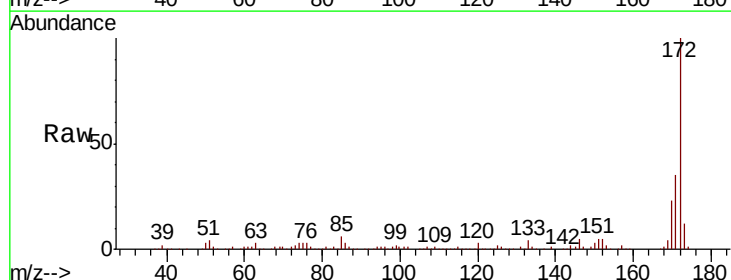
RT: 9.09 min Scan# 1190

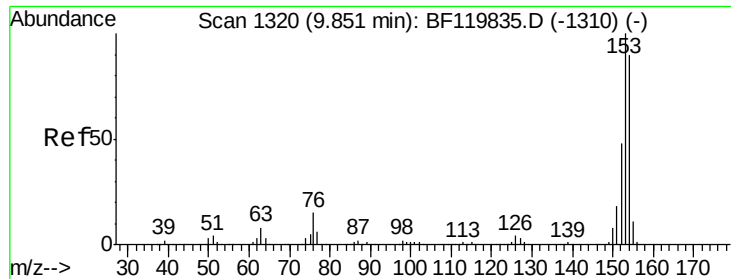
Delta R.T. -0.01 min

Lab File: BF120035.D

Acq: 16 Apr 2020 14:47

Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.9	28.9	43.3
170	23.1	19.4	29.2





#52

Acenaphthene

Concen: 3.781 ng

RT: 9.80 min Scan# 1311

Delta R.T. -0.01 min

Lab File: BF120035.D

Acq: 16 Apr 2020 14:47

Instrument :

BNA_F

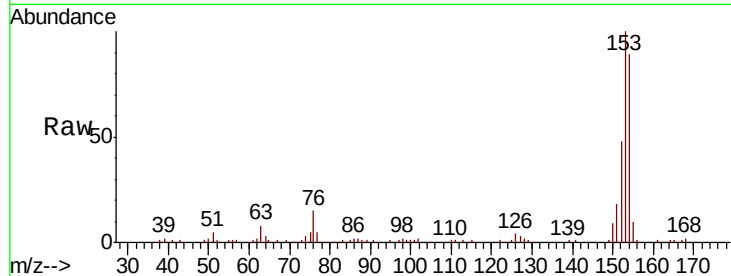
ClientSampleId :

CL-01-041020

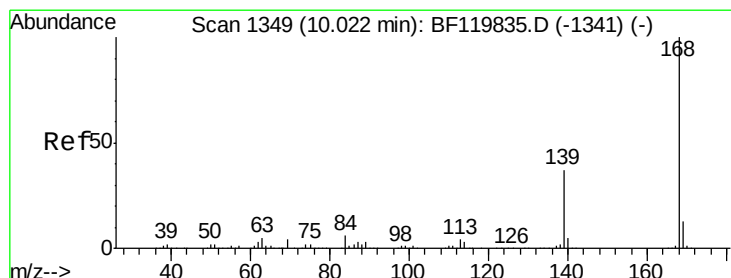
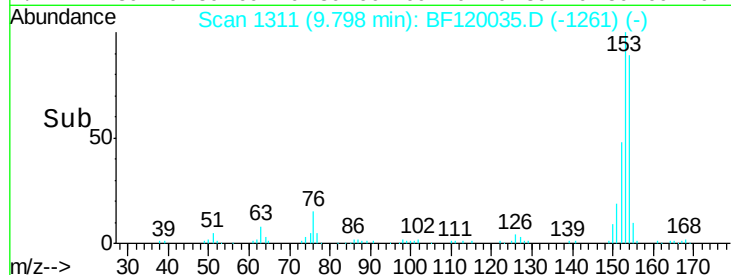
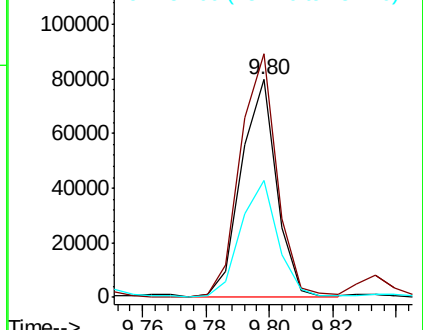
Tot Ion:	154	Resp:	62010
Ion Ratio	Lower	Upper	
154	100		
153	111.7	88.8	133.2
152	53.6	42.4	63.6

Manual Integrations
APPROVED

mohammad
4/17/2020 1:48:22 PM



Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E



#55

Dibenzofuran

Concen: 2.657 ng

RT: 9.97 min Scan# 1340

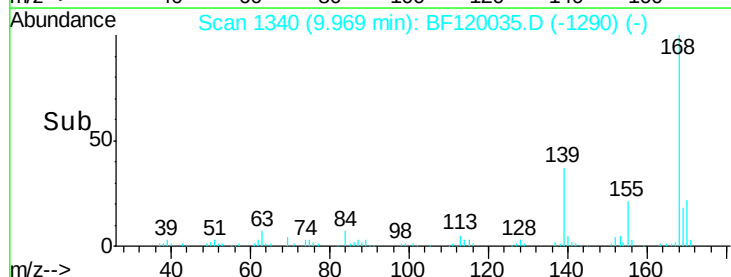
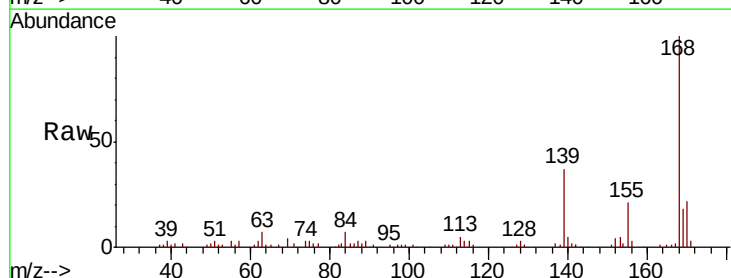
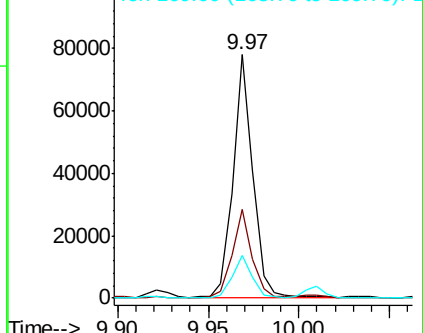
Delta R.T. -0.01 min

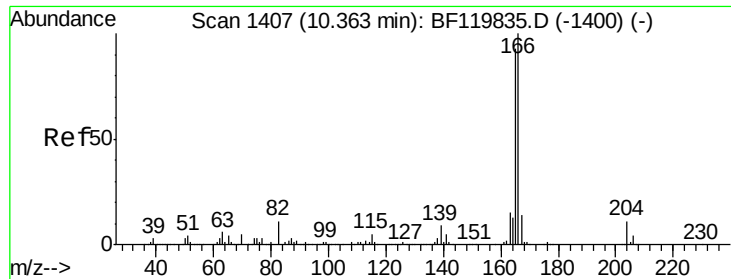
Lab File: BF120035.D

Acq: 16 Apr 2020 14:47

Tgt Ion:	168	Resp:	59804
Ion Ratio	Lower	Upper	
168	100		
139	36.6	29.8	44.6
169	17.6	10.6	15.8#

Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E





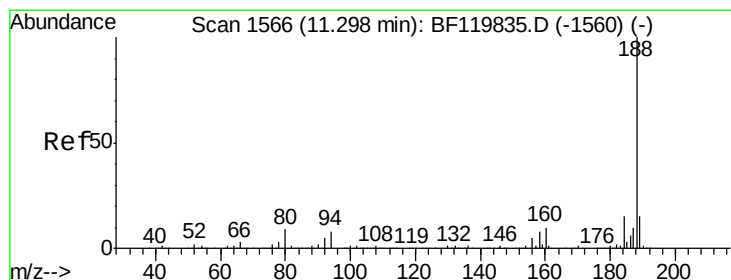
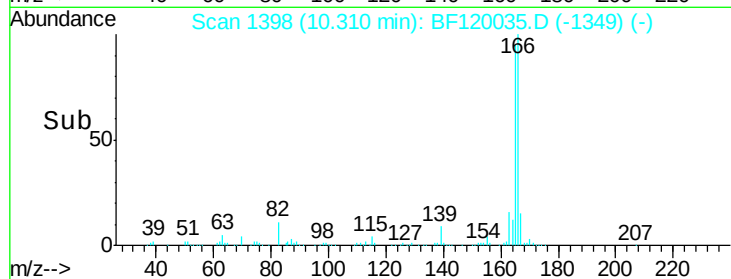
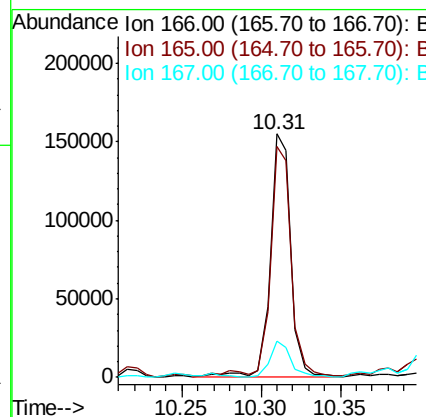
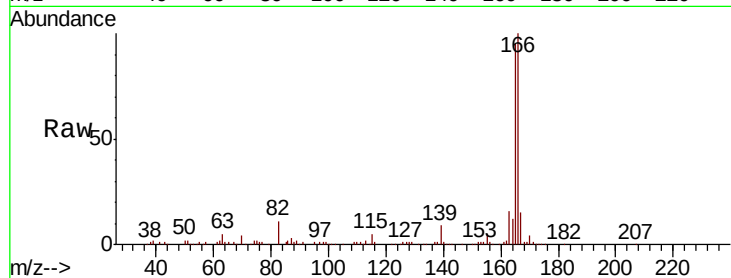
#58
 Fluorene
 Concen: 7.749 ng
 RT: 10.31 min Scan# 1398
 Delta R.T. -0.01 min
 Lab File: BF120035.D
 Acq: 16 Apr 2020 14:47

Instrument :
 BNA_F
 ClientSampleId :
 CL-01-041020

Tot Ion	Ratio	Lower	Upper
166	100		
165	94.8	74.2	111.2
167	14.9	10.8	16.2

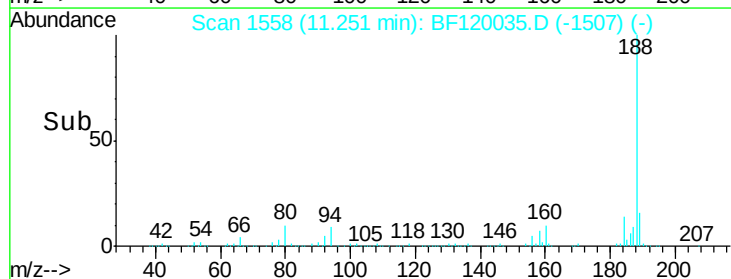
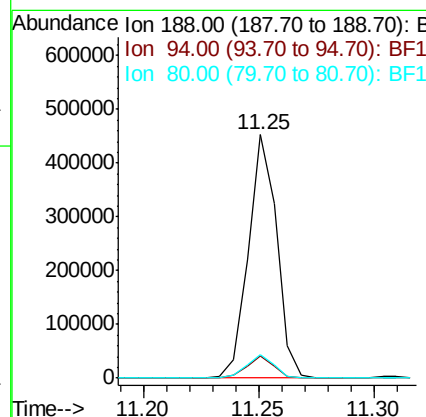
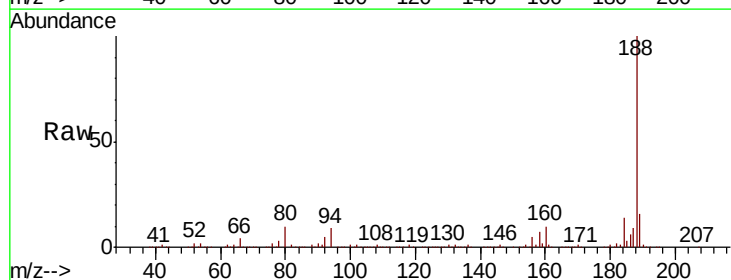
Manual Integrations
 APPROVED

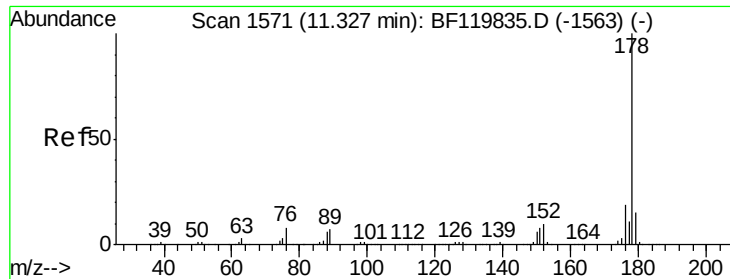
mohammad
 4/17/2020 1:48:22 PM



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.25 min Scan# 1558
 Delta R.T. -0.00 min
 Lab File: BF120035.D
 Acq: 16 Apr 2020 14:47

Tgt Ion	Ratio	Lower	Upper
188	100		
94	9.1	6.7	10.1
80	9.7	7.4	11.2





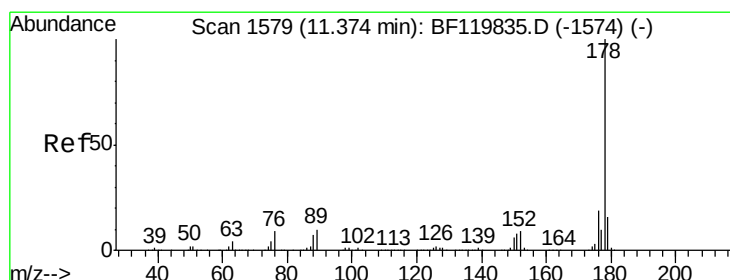
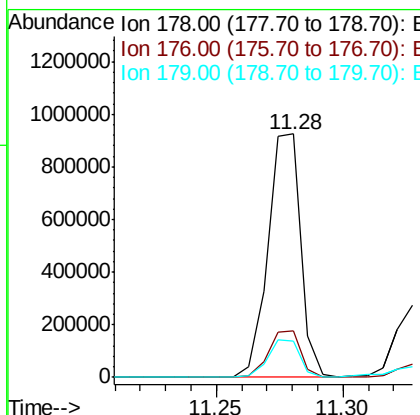
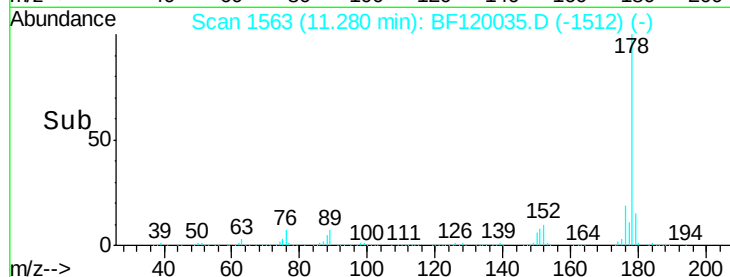
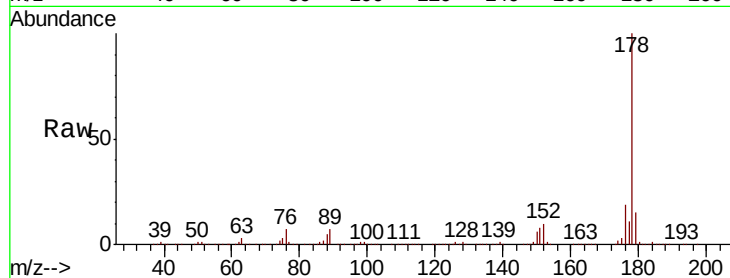
#71
Phenanthrene
Concen: 40.688 ng
RT: 11.28 min Scan# 1563
Delta R.T. -0.00 min
Lab File: BF120035.D
Acq: 16 Apr 2020 14:47

Instrument :
BNA_F
ClientSampleId :
CL-01-041020

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.1	22.7
179	14.9	12.2	18.4

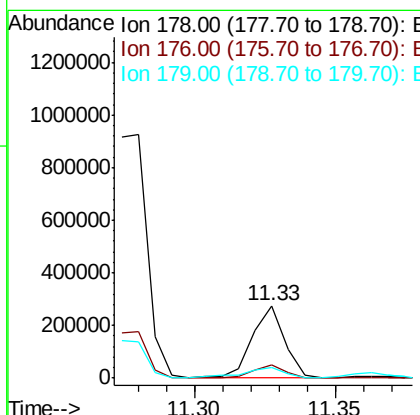
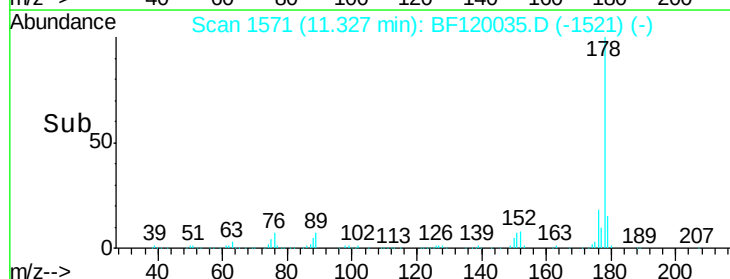
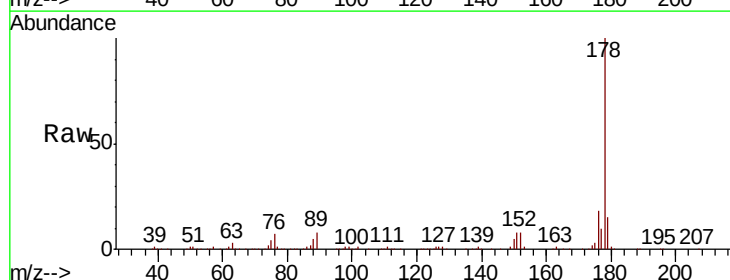
Manual Integrations
APPROVED

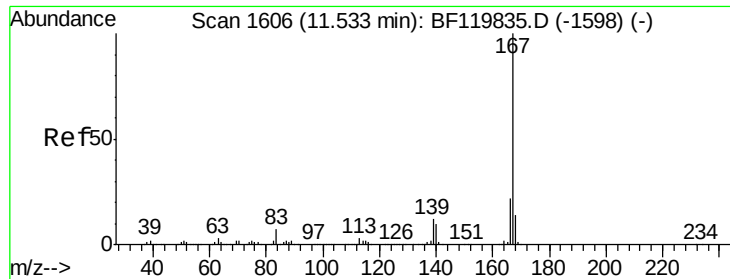
mohammad
4/17/2020 1:48:22 PM



#72
Anthracene
Concen: 10.182 ng
RT: 11.33 min Scan# 1571
Delta R.T. -0.01 min
Lab File: BF120035.D
Acq: 16 Apr 2020 14:47

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.1	15.4	23.2
179	15.4	12.8	19.2





#73

Carbazole

Concen: 2.809 ng

RT: 11.48 min Scan# 1597

Delta R.T. -0.01 min

Lab File: BF120035.D

Acq: 16 Apr 2020 14:47

Instrument :

BNA_F

ClientSampleId :

CL-01-041020

Tot Ion:167 Resp: 56218

Ion Ratio Lower Upper

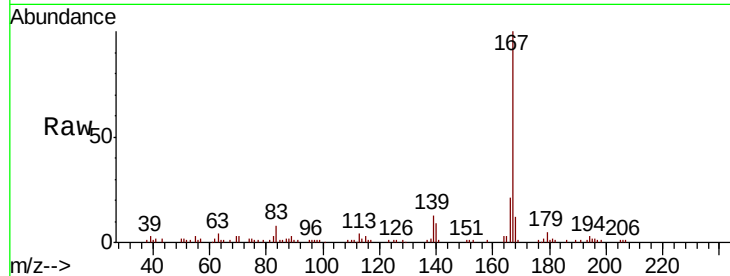
167 100

166 21.2 17.4 26.0

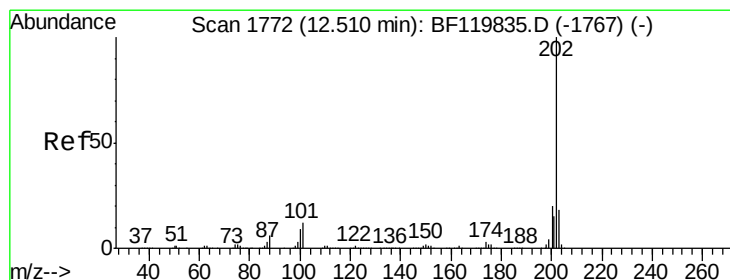
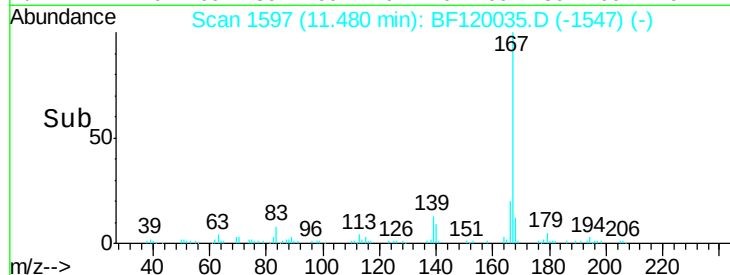
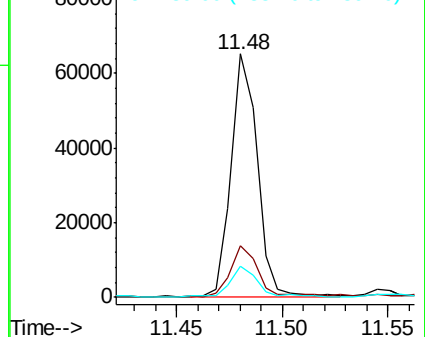
139 12.8 9.8 14.8

Manual Integrations
APPROVED

mohammad
4/17/2020 1:48:22 PM



Abundance Ion 167.00 (166.70 to 167.70): E
Ion 166.00 (165.70 to 166.70): E
Ion 139.00 (138.70 to 139.70): E



#75

Fluoranthene

Concen: 28.384 ng

RT: 12.47 min Scan# 1765

Delta R.T. -0.00 min

Lab File: BF120035.D

Acq: 16 Apr 2020 14:47

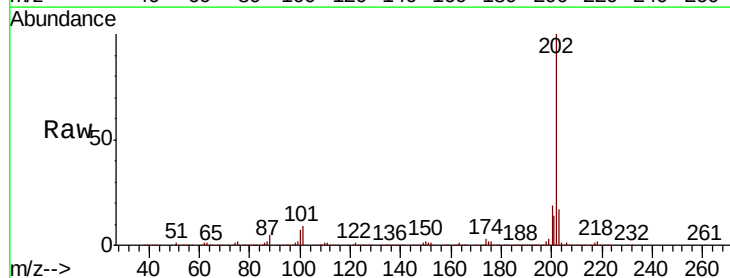
Tgt Ion:202 Resp: 634448

Ion Ratio Lower Upper

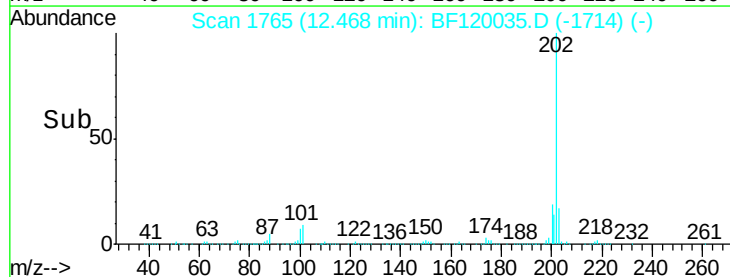
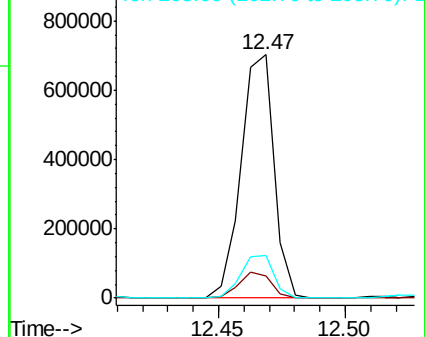
202 100

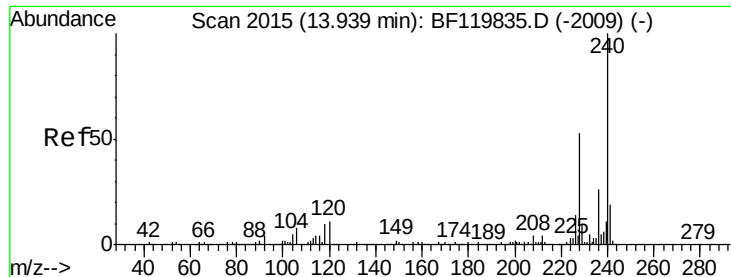
101 9.3 0.0 32.3

203 17.3 0.0 37.6



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: 13.89 min Scan# 2007

Delta R.T. -0.01 min

Lab File: BF120035.D

Acq: 16 Apr 2020 14:47

Instrument :

BNA_F

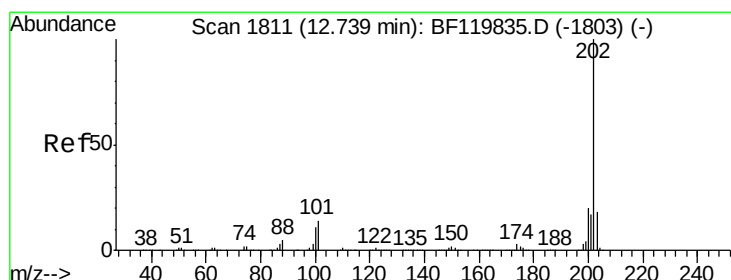
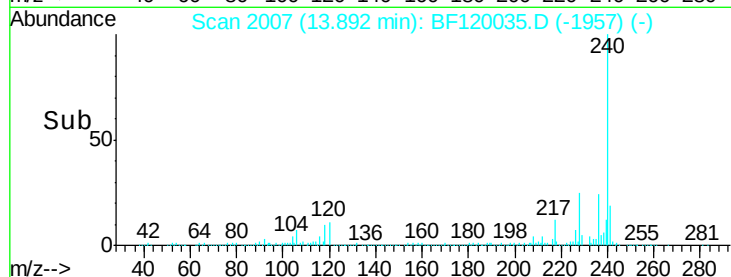
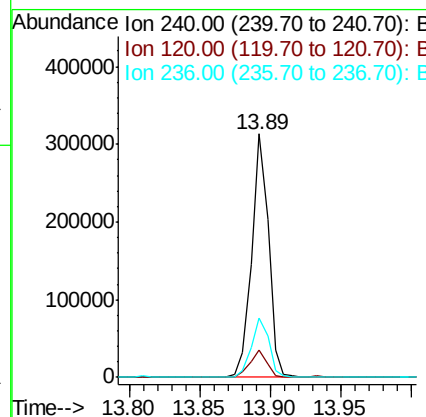
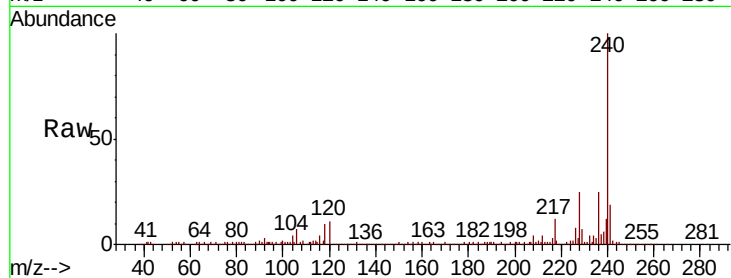
ClientSampleId :

CL-01-041020

Tot Ion:	240	Resp:	261683
Ion Ratio	Lower	Upper	
240	100		
120	11.1	9.0	13.6
236	24.5	20.7	31.1

Manual Integrations
APPROVED

mohammad
4/17/2020 1:48:22 PM



#78

Pyrene

Concen: 28.661 ng

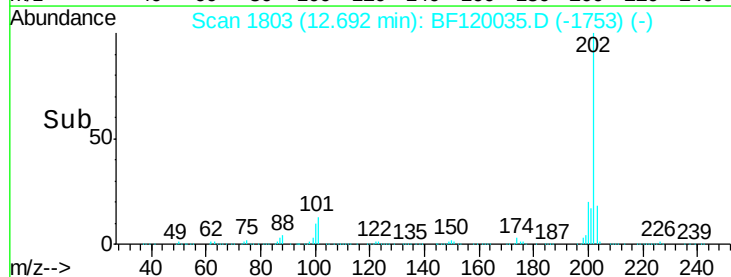
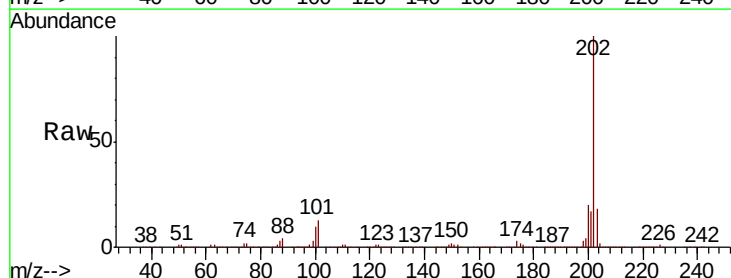
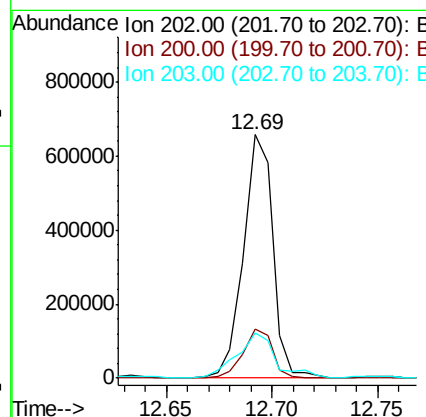
RT: 12.69 min Scan# 1803

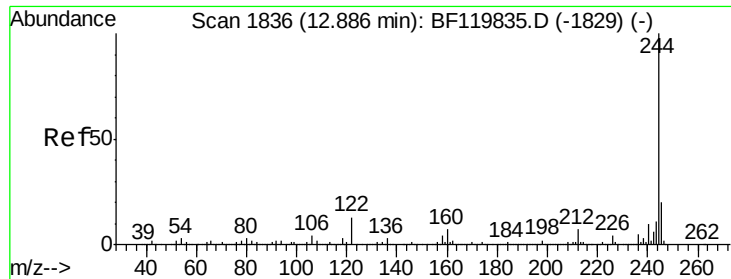
Delta R.T. -0.01 min

Lab File: BF120035.D

Acq: 16 Apr 2020 14:47

Tgt Ion:	202	Resp:	632280
Ion Ratio	Lower	Upper	
202	100		
200	20.0	16.2	24.2
203	18.3	14.1	21.1





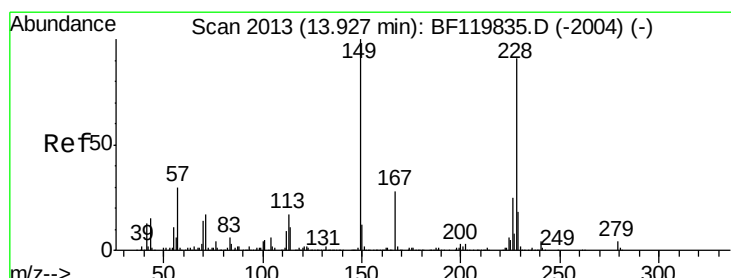
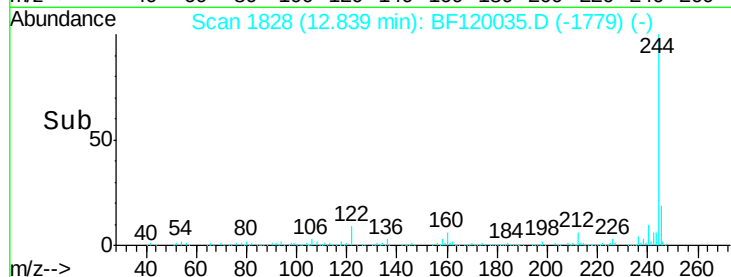
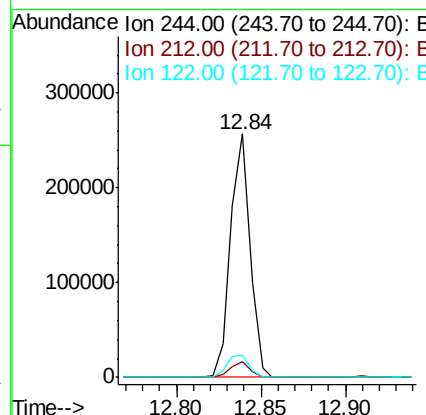
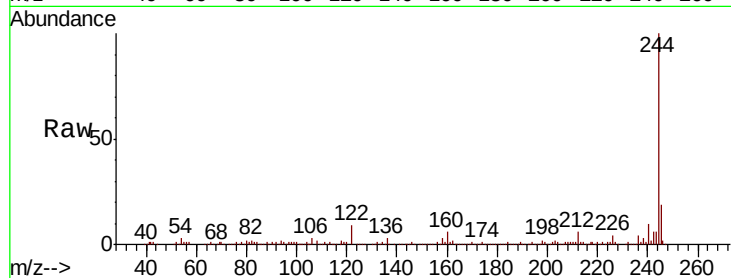
#79
 Terphenyl-d14
 Concen: 13.303 ng
 RT: 12.84 min Scan# 1828
 Delta R.T. -0.01 min
 Lab File: BF120035.D
 Acq: 16 Apr 2020 14:47

Instrument :
 BNA_F
 ClientSampleId :
 CL-01-041020

Tot Ion	Ratio	Lower	Upper
244	100		
212	6.4	5.4	8.0
122	9.1	10.3	15.5

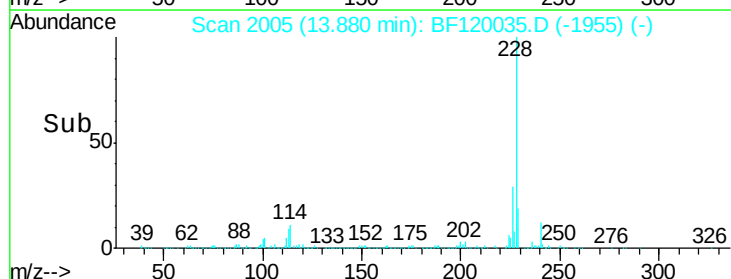
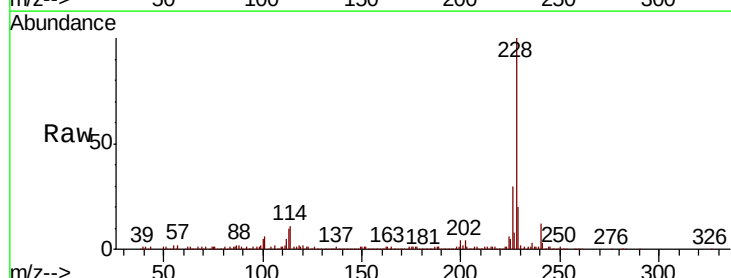
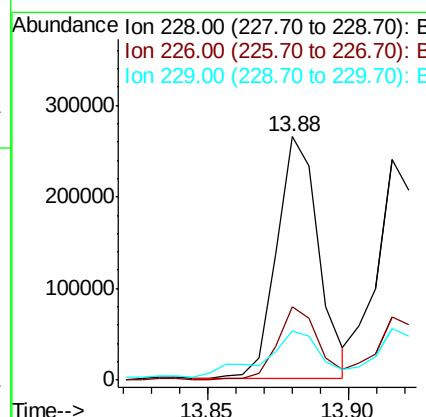
Manual Integrations
 APPROVED

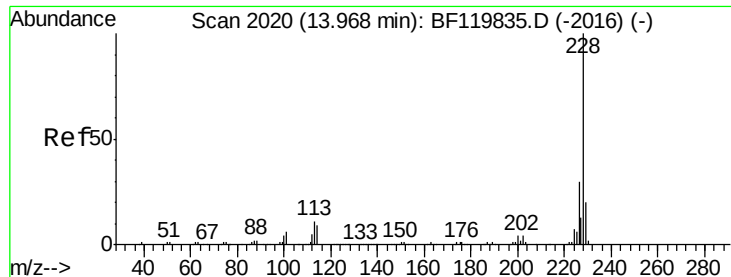
mohammad
 4/17/2020 1:48:22 PM



#81
 Benzo(a)anthracene
 Concen: 15.834 ng
 RT: 13.88 min Scan# 2005
 Delta R.T. -0.01 min
 Lab File: BF120035.D
 Acq: 16 Apr 2020 14:47

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.9	21.9	32.9
229	20.0	15.9	23.9





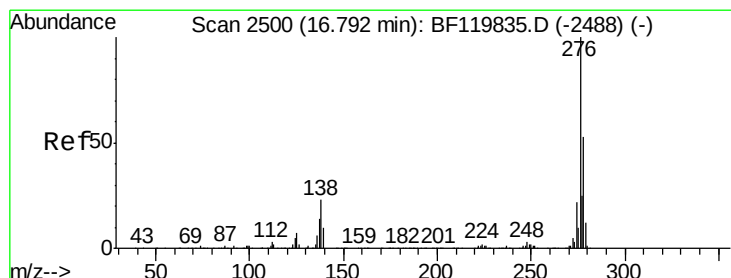
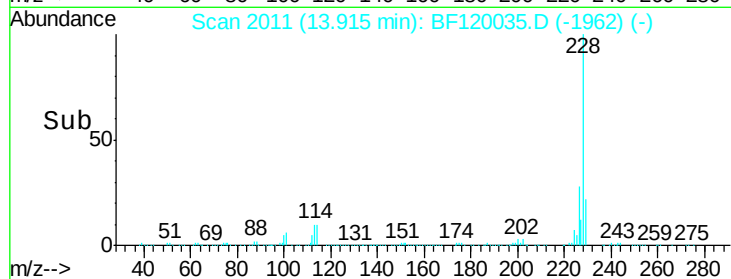
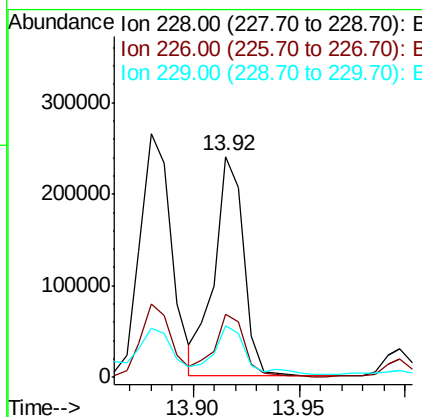
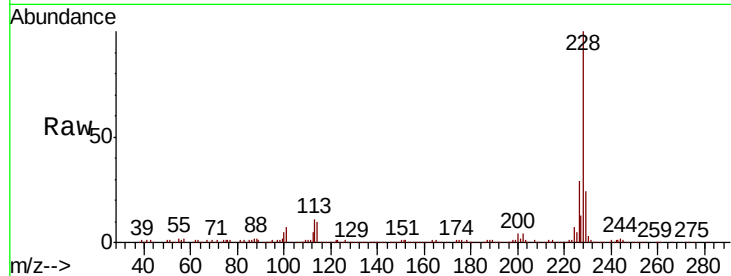
#83
Chrysene
Concen: 13.238 ng
RT: 13.92 min Scan# 2011
Delta R.T. -0.01 min
Lab File: BF120035.D
Acq: 16 Apr 2020 14:47

Instrument :
BNA_F
ClientSampleId :
CL-01-041020

Tot Ion	Ratio	Lower	Upper
228	100		
226	28.5	24.2	36.2
229	23.6	15.9	23.9

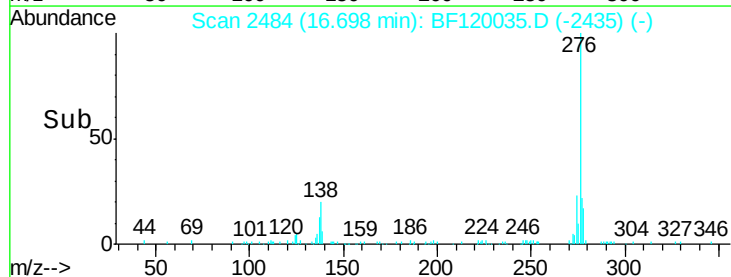
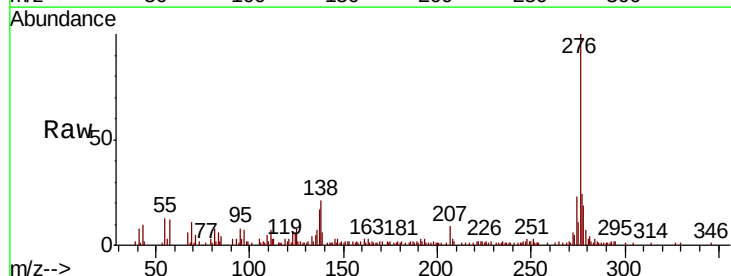
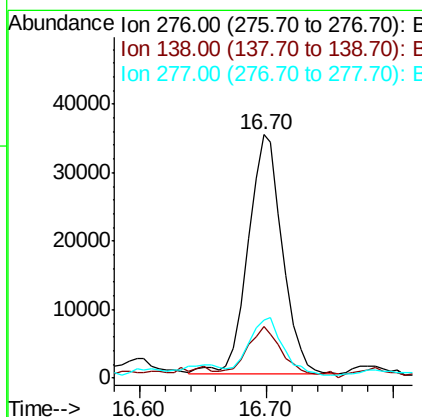
Manual Integrations
APPROVED

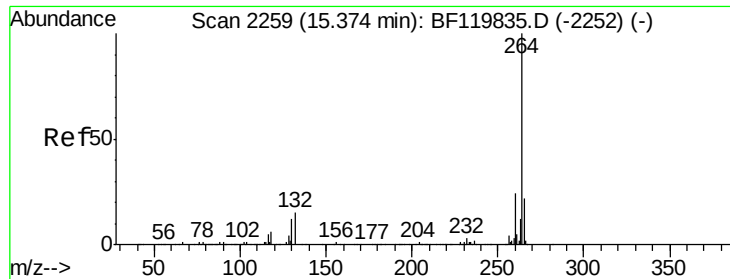
mohammad
4/17/2020 1:48:22 PM



#86
Indeno(1,2,3-cd)pyrene
Concen: 4.258 ng
RT: 16.70 min Scan# 2484
Delta R.T. -0.01 min
Lab File: BF120035.D
Acq: 16 Apr 2020 14:47

Tgt Ion	Ratio	Lower	Upper
276	100		
138	23.8	18.0	27.0
277	23.6	20.1	30.1





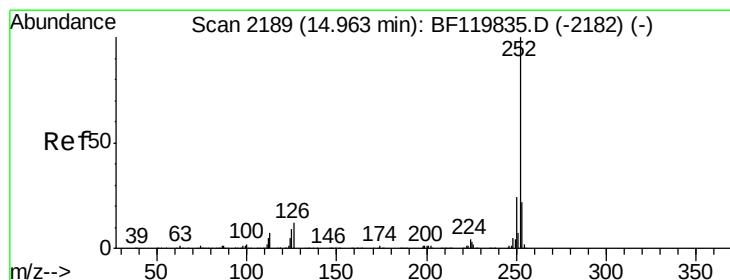
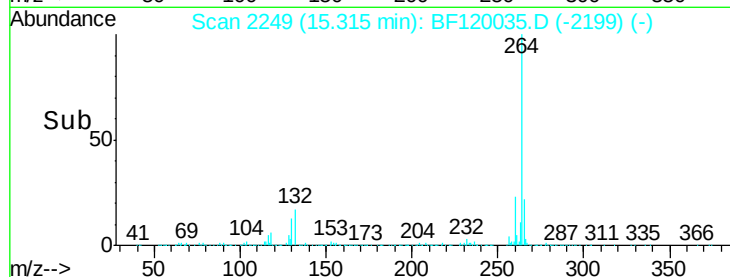
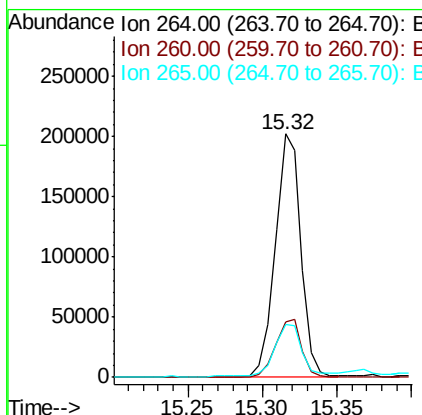
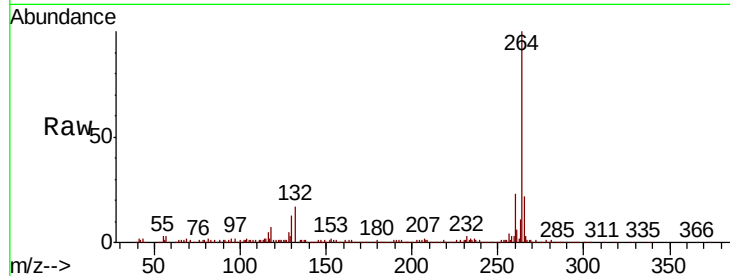
#87
Pervlene-d12
Concen: 20.000 ng
RT: 15.32 min Scan# 2249
Delta R.T. -0.01 min
Lab File: BF120035.D
Acq: 16 Apr 2020 14:47

Instrument :
BNA_F
ClientSampleId :
CL-01-041020

Tot Ion:264	Resp:	243117
Ion Ratio	Lower	Upper
264 100		
260 23.0	19.3	28.9
265 21.8	17.6	26.4

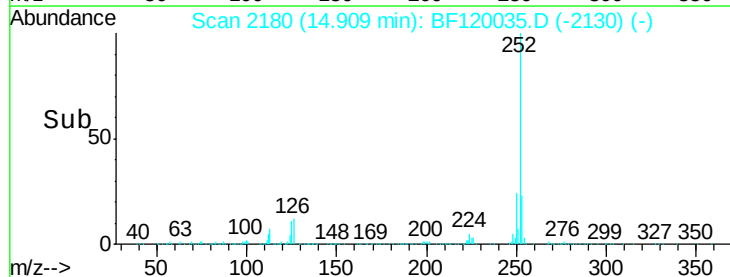
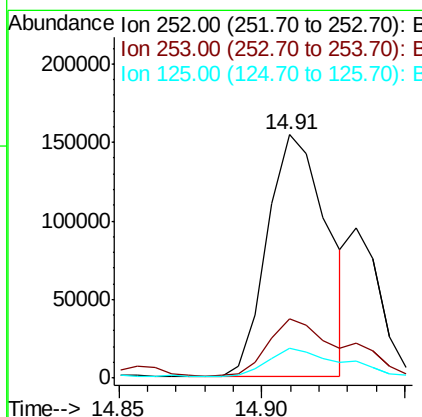
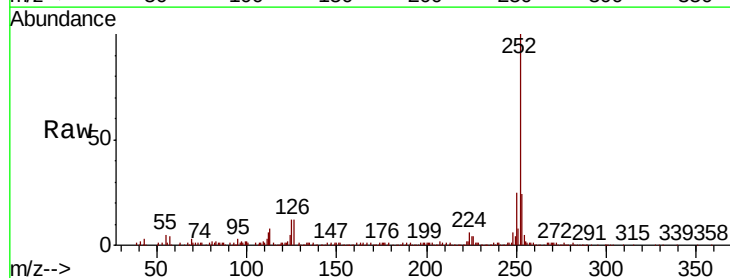
Manual Integrations
APPROVED

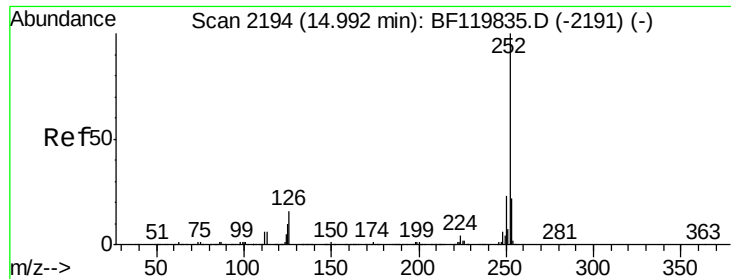
mohammad
4/17/2020 1:48:22 PM



#88
Benzo(b)fluoranthene
Concen: 12.815 ng m
RT: 14.91 min Scan# 2180
Delta R.T. -0.01 min
Lab File: BF120035.D
Acq: 16 Apr 2020 14:47

Tgt Ion:252	Resp:	224129
Ion Ratio	Lower	Upper
252 100		
253 24.1	17.7	26.5
125 12.4	7.4	11.2#





#89

Benzo(k)fluoranthene

Concen: 4.755 ng/mL

RT: 14.93 min Scan# 2184

Delta R.T. -0.01 min

Lab File: BF120035.D

Acq: 16 Apr 2020 14:47

Instrument :

BNA_F

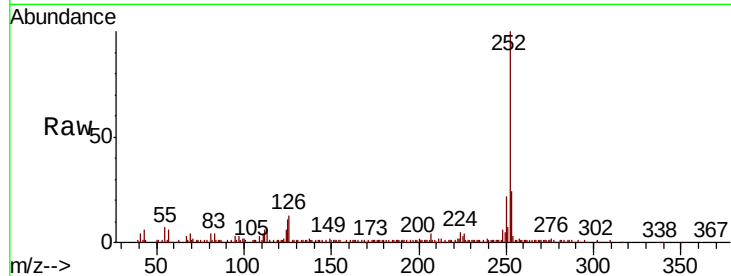
ClientSampleId :

CL-01-041020

Tot Ion:	252	Resp:	71748
Ion Ratio	Lower	Upper	
252	100		
253	23.8	17.8	26.8
125	11.3	7.7	11.5

Manual Integrations
APPROVED

mohammad
4/17/2020 1:48:22 PM

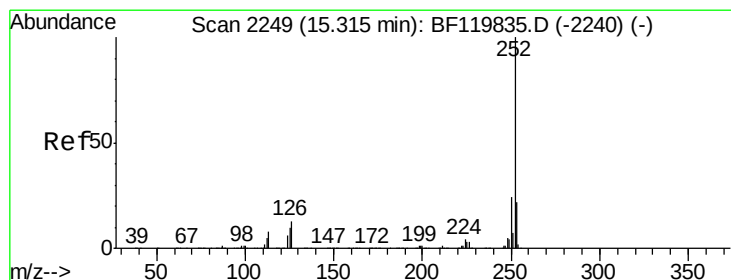
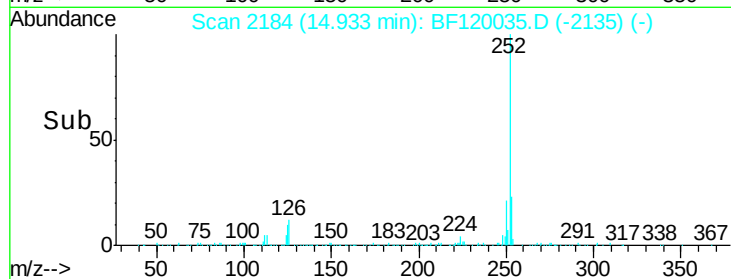
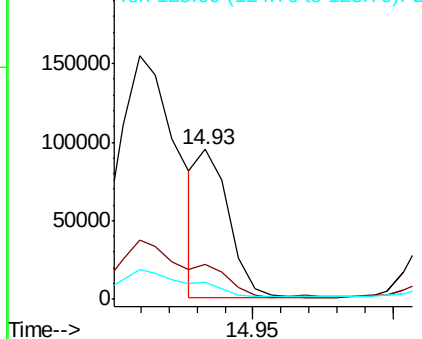


Abundance

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: 12.411 ng/mL

RT: 15.26 min Scan# 2239

Delta R.T. -0.01 min

Lab File: BF120035.D

Acq: 16 Apr 2020 14:47

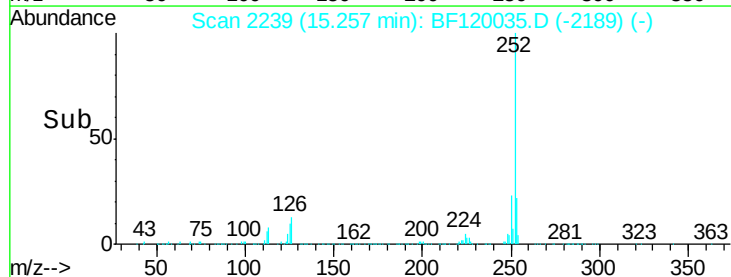
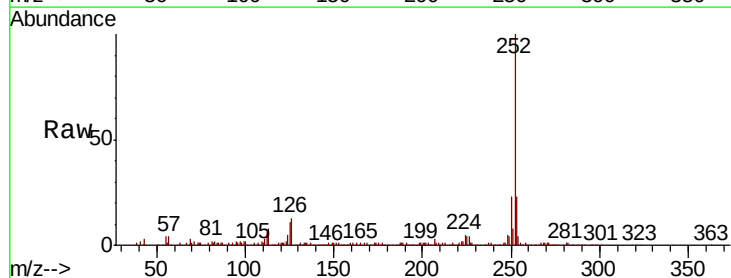
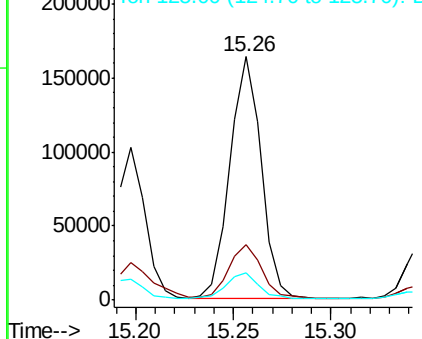
Tgt Ion:	252	Resp:	182499
Ion Ratio	Lower	Upper	
252	100		
253	22.6	17.4	26.2
125	11.2	8.3	12.5

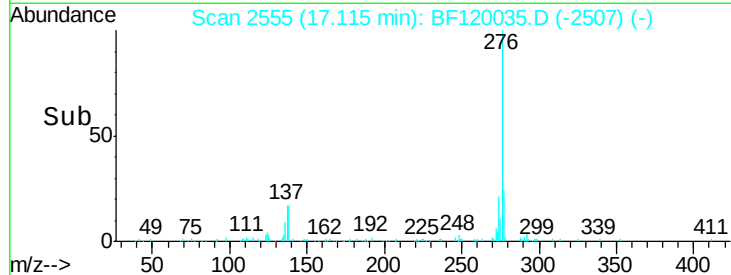
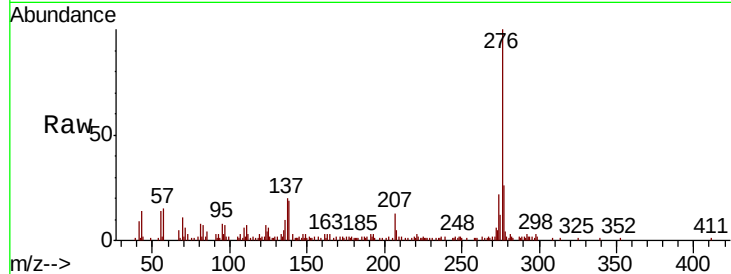
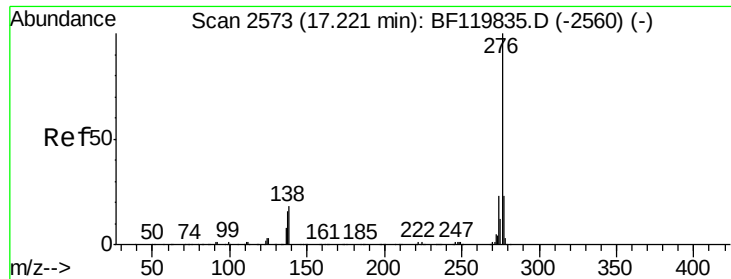
Abundance

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: 4.759 ng
 RT: 17.12 min Scan# 2555
 Delta R.T. -0.02 min
 Lab File: BF120035.D
 Acq: 16 Apr 2020 14:47

Instrument :
 BNA_F
 ClientSampleId :
 CL-01-041020

Tot Ion	Ratio	Lower	Upper
276	100		
277	25.9	18.5	27.7
138	19.0	14.6	22.0

Manual Integrations
 APPROVED

mohammad
 4/17/2020 1:48:22 PM

